Full text of "One Hundred Authors Against Einstein"

HUNDRED AUTHORS AGAINST EINSTEIN

Published
from
Dr. HANS ISRAEL, Dr. ERICH RUCKHABER,
Dr. RUDOLF WEINMANN

With contributions from
Prof. Dr. DEL-NEGRO, Prof. Dr. DRIESCH, Prof. Dr. DE HARTOG,
Prof. Dr. KRAUS, Prof. Dr. LEROUX, Prof. Dr. LINKE, Prof. Dr.
LOTHIGIUS, Prof. Dr. MELUN, Dr. PETRASCHEK, Dr. RAUSCHEN-
BERGER, Dr. REUTERDAHL, Dr. VOGTHERR nva

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FOREWORD

It is only one in the spiritual history of humanity

The case is that a theory is called and celebrated as a Coperman act

Which, even in the case of its validity, never takes our natural and world-

Picture transformation; In the nature of which it is so difficult

To be understandable to the general public that their popularity is

Appears. The suggestive power of a repeatedly placated

Name, the misunderstood and misunderstood slogan of the "Rela-

"Snobbish admiration of half-understood paradoxes

Simple helpless mind.

Independent thinking and unbiased science have been developed by

Beginning rebellious. Have expressed serious doubts and questions

posed. They were dismissed with wholly ignoring passages.

Thus the counter-expression touched on Lenard's famous

(1918), the main points were too little or too much

Not. The same was repeated on the Nauheimer Naturforscher-

1921. On the occasion of the Leipziger Zentenarfeier 1922 finally

19 physicists, physicists, and philosophers saw themselves as a

Protest, which states that "you (the undersigned,

Including Lenard, Gehre ke, Lipsius, Fälagyi, Mohorovicic, Fricke, Vogt-

Mr, Kremer, Lothigius) deeply deplore the misleading

The theory of relativity (RTH) as a solution to the world-

Riddles and the one is unclear about the fact

Holds that many and also highly respected scholars of the three mentioned

Research areas the RTH not only as an unanswered hypothesis

But even as a fundamentally missed and

To reject durable fiction. 64

All this was hardly known.

Magazines and newspapers, which alone the voice of Enlightenment

And criticism, or at least doubt, before the hundreds of thousands

To bring would be able to appear with vanishing little

Exceptions, every one to bring even the most stupid yes,

Every no. The same goes for the posture

The publisher and, in the meantime, the same

Funk on Researchers of the greatest name know how to report this.

Thus it could be deprived of the generality that the RTH,

Far from being a safe scientific possession, more recently

By irrefutable arguments as a complex in itself contradictory-

Full claims, proved as possible and superfluous

Is. It has not been known that the spiritual fathers had already

Steins, Mach and Michels on, the RTH. It is unknown

That their opponents in number and importance to the followers

At least.

What is more, the unheard-of fact that neither of

Einstein himself, even from his commentators

1 *

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The attempt is made, the more and more accumulating

Arguments of the opponents.

An open letter from Prof. Kraus (Prague) to Einstein and Laue (1925),

In the decisive answer to decisive

Questions is left unchecked. Already had before

To prevent Kraus and Gehrcke, in the "Journal of Physics" and

In the "Logos 66 new concerns and weaknesses of the opponent.

cover up. The Naturforscherkerkreß in Innsbruck did not wish any

Against the RTH, after the previous year Schlick such a

For Einstein.

It is precisely because the RTH is a matter not only of the knowledge-

But has become or has been made to the general public.

Because it wants or wants to transform our whole image of the world, would have theirs

Advocates the obligation to speak in the service of truth,

To which alone it goes. If magazines and newspapers were the duty,

Not to sabotage the exchange of opinions.

The purpose of this publication is to protect the terror of the Einsteinians

Overview of the number and weight of opponents and

deliver. The purpose is to clarify the generality and to clarify the

In question.

The editors are prepared for the fact that the other side is directed at

Unquestionably weaker, more vulnerable arguments,

Contradict legal discrepancies between the individual authors and

So the present S ammelschrift will try to depreciate. Dem-

It was established in advance that a uniform and authentic one

Also, the theory of relativity is neither on the side of the stone

Nor from his numerous commentators. Much more

The RTH shimmers in all colors. Einstein himself has

Interpretative interpretations (see the question of the ether, the clock, the validity of the

The constancy of the speed of light), which in turn is expressed in

Occasionally contrary to the interpretations of Mie, Reichenbach,

Thirring, Born, Friendly, Sommerfeld, Riebesell, Weyl, Schlick, Planck,

Petzoldt, among others, while they are physically, math-

Mathematical and epistemic theories. (More details on this

By Gehrcke, Kraus, Lenard, Lipsius, Lefte aua) Even via elemen-

Such as "time 66," reality 66 (the space shortening

Etc.) there is deep confusion and disagreement. Of the

Ambiguous and misleading counter-

Mental self-front. But certainly there is

To every argument of the Einstein side the corresponding unmasking

Counterargument. In the case of unaffected and just examination,

Material in its entirety in all circumstances

Einstein and every reading of his theory.

The publishers.

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CONTRIBUTIONS

Professor Dr. WALTER DEL-NEGRO / SALZBURG

THE QUALITY OF RELATIVITY STHEORY

The questionable nature of the RTH is already evident from the subject,

Because of a mere hypothesis for the explanation of certain results,

Which is not even the only possible, the foundations of the philosophical

And physical thinking. The probability of a

Hypothesis is based on the probabil-

Clarification and the preceding probability;

The former may be great, but the latter is minima

This is evident mainly from the fact that the RTH represents the space-

Time continuum of a system depends on the relative motion on one side

Makes: changes the relative speed of a system, so change

Thus also the measuring results available from it, which the

RTH by actually changing the space-time of this system.

The space-time values of a system are thus determined by the relative motion

generated ; Since however the relative movement itself defines in a space-time

Which in turn are conditioned by relative motion

Etc., then a regr. In infinity. Thus the RTH contains ontological

Impossibilities.

If one replies, the RTH wants only a convenient sign system

Without ontological claims, is thus the conception of the theory

As fiction to the opponent of the RTH. On the other hand,

Only it must be the non-positivist who is attached to a physical reality

The RTH's finality.

Whiskers.

Cf. "On the dispute over the philosophical meaning of Einstein's RTH"

Arch. F. Syst. Phuos., NF XXVII, 103 ff .; "RTH and Security Problems", ibid

XXVIII, 126 ff.

Professor Dr. HANS DRIESCH / LEIPZIG

MY MAIN FURNITURE AGAINST THE RELATIVITY-

THEORIST

1. The clear concept "the one empirical reality" is missing

"Nature", which is inevitable in the one time. It is the same

Whether nature is conceived as a phenomenon 44 or in the sense of realism

Becomes (1 st page 1), p. 47 ff.).

2. It wdrd overlook that for nature a totality absolutely

Binding statements ("realontology") (cf. pages 53 and 96 ff.).

L) Cf. "RTH and Weltanschauung 44, Quelle &. Meyer, Leipzig, 1929. (Second

Reworked edition of "RTH und Philosophie", 1924.)

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S * It is overlooked that so-called metagenometry has no "geometry 4"

But only a chapter from the pure theory of relativity (1 Cor., Pp. 62 ff.),

Which is viciously not fulfilled.

4. It is overlooked that time is essentially something fundamental

Other than space (1. c. P. 43).

5. That "simultaneous" many "times" should be, is an incomplete-

(1 st page 41),

6. In a completely unacceptable way,

That movement, which is only to be relative, is an absolute real one

Effect (scale shortening, watch example, L c, p. 21, 25, 26).

7. It has been shown to have shown a merit of a stone, that today no

Means to accurately determine simultaneity. But a limit

Determinateness is not a limit of ideal gratitude; and

Limits of practical determinability can never be created

Logically absurd constructions.

8. The RTH goes only to the practical scientific work of the

Mathematical physics, which encounters certain obstacles; you

But it has no ideological significance at all.

Dr. S. FRIEDLAENDER / HALEN LAKE

ALBERT EINSTEIN'S SPECIAL RELATIVITY-

THEORY BY ERNST MARCUS DEFINITIVE

DISCOVERED

It is easy to visualize the facts: according to the

Hypothesis of the light is the movement of the light

Independent of all movements of the body-world, would consequently have to

Against them. Surprisingly, however, this is not the case.

Experimental experience does not show such a contrast. What

Does the special RTH? They relativized to be nevertheless at the now

Once unchecked prevailing hypothesis of light propagation.

Even the time itself and all measurements. In your

She does not dream of the independence of the light movement,

To her second. She rather doubts about the world

himself. Unconsciously uncritical, she holds the superiority

Light wide bi Id holy. But this is by no means unavoidable

necessary.

On the inviolable suppositions of the special RTH

The theorem ceases: the law of lengthening remains for the moving one

System same as for the resting. But then it would be necessary

Contrasts, depending on how the light moves in a different way

Body. In fact, no contrasts can be made experimentally

determine. Therefore Albert Einstein does not relativize how close

The present light would be far-reaching;

On a dormant system, in relation to this, others

8th

Xeitverhältnisse as in relation to a moved. - Is this

The whole duke, who, with this mantle, falls

Entire special RTH. Then this is physically impossible.

And in this assertion hides, as Marcus strictly follows-

Is an error.

Two possible relationships are possible: different

Either in the context of the mutually independent

Or interdependence and subordination.

Einstein confuses the independent movement of the light

With order. His assertion that the movement of the

Light, as independent, no contrast to other movements

Is groundless and incomprehensible, so the whole theory

Durable One hears: the light movement is independent, therefore, should be

Against the others. The experiment, however,

Do not fall by any means. Is not this strange? Should not be here, like Emst

Marcus, come to the simple thought that these are thoughtless

Presumed independence of the light movement through these

Experimental experience would be doubtful? But no, to God-

Will have to be held to this independence, and rather the time

Be relativized!

The light is caused by bodies and is therefore of them

dependent. Nevertheless, should it be independent in its movement?

And so that the bill only agrees yes, one relativizes the time. Without

All physical justification treats Einstein's time as one

With or bodies moved by bodies. With such physical

Unsustainable means can not be solved.

It is true, however, that this reversed solution points to the real problem

And its correct solution: the light movement is independent

Or dependent? How does the strange contrast be resolved?

Light, caused by bodies, is nevertheless independent in its motion

be ? Supposedly, the light, after the transmission, in ball-

Radiate in all directions of space, as waves in the

Water. This requirement of the special RTH is untenable. Marcus

Assumes that on the light from radiation, not only on one side the off-

Sender, but on the other hand, the sender and receiver are involved.

A relation like that of the polarity between light poles. The whole world-

Bodies would only be interconnected by light streaks, in between

Gloom darkness. Here we would really have a new, wonderful

Light image. Planets would not only depend on solar

Due, but rather, as a recipient, help to emerge

Of the light. The light movement loses its absolute character. Of

Both the receiver and the receiver maintain their distance, so they rest

Light, the light moves only at its own speed.

The It is also experimentally proved that the light is in its

Can not be influenced by the earth movement. Here

This miracle is explained naturally, without being converted into

To remain in doubt and remain very problematic.

Should be taken. If you do not want to follow Marcus, leave that

Problem would rather be unsolved. Protection of a problem before

Apparent solutions are important. Goethe has already pointed out that the

Of a hypothesis by mathematical formulas

Of the correctness. Mathematicians, who lack perception

To be able to. That is, renounce experience. Not at all is that

Natural science, to make hypotheses based on

Trolled by intuition.

The most abstruse hypotheses are devised to prove,

That the movement of the light, although it does not detract from others, nevertheless does

Independently. But the light can not be in the same

Breath soon independent, soon dependent! The previous light -

Spread hypothesis can be false. This eventuality is

Had not been respected. It can be mistaken to suppose that the light

Is absolute. Experiments of experience argue against these

Soluty Why is it self - evident in the previous hypothesis of light -

Spread? It is enough, instead of time and measure

Only to relativize the light movement.

"The philosopher Emst Marcus as successor to Kant 44. Baedeker,

Food.

Dr. IK GEISSLER / RINGGENBERG

CONCLUSION WITH THE EINSTEIN-ERROR!

It is fundamentally misunderstood, the expression "relativity" or "

"Relativity 44 with the name" Einstein 44 as inseparable to copulate,

As it is an immense advertisement at the lay pub and a part of the

Scholars. Newton already talks a lot about the relative

And absolutes in mathematics and physics. Modern physicists, like

E. Mach, who knows and uses Einstein exactly, have the terms

Relative space, relative time, and motion

(Long before Einstein, 1865, 1901 "The mechanics in their development

44 and later); Mansion (Paris, 1863) held the absolute movement

And the Ptolemaic and Copernican system for kine-

Matically equal. A coherent general "possible

I have myself the doctrine of relativity in space, time, and so on

1900, while Einstein not until 1905 a lot over

Relativity has published my book ("A Possible Being -

statement . . , 44) but does not indicate. Difficulties arising at the

Consideration, especially of movement, of forces in physics.

And with whom Newton, although far more cautious than Ein-

"Had fought, Einstein looked for a quite violent and

Illogical (with faulty circuit). He leads

In his writings many things which are good, but long before him said

has been. The difficulty of the different speeds, however,

In which there is time and space, he believes to solve by using force

Times, which are designated as the same, can be different, according to

Different speeds, this is even to be the case in nature.

It is freshly neglected that in the concept of speed

But also the concept of time and space. Such a concept can

Impossible as the original. What Einstein continued

Was also already present. Already Lorentz had before him

The transformation formulas, which Einstein now published in "his * 4

Relativistic sense and according to its assertion about time.

Instead, like Lorentz, with certain subtle examinations and experiences

Certain shortenings of the test specimens during the

, Einstein now makes up his own theory, so that

The body does not shorten itself with respect to the same

Space, but simply that the spatial lengths are shorter (!),

As soon as they were on a differently moving body. He does not notice,

That in the introduction of such changes he always has the same

Of the time and space lanes, that without these,

Changes are not at all conceivable, are nothing at all. He makes

It is similar to the non-Euclideans, if they are a non-Euclidean

Space, which they otherwise only arithmetically (for example, by telling of

1, 2, 3 dimensions to a fourth and nth)

For example, if they have a finite, self-returning

Space instead of the infinite, by making a one

Parable, which is based entirely on the actual

Euclidean infinite space. One should get a spherical surface

Imagine, on the one circled back to the beginning again -

Can return. In this case, however, it is assumed that it has a surface in

And that such a surface is always presented only when

Outside of this spherical surface is the expanding space,

But otherwise it is already in the concept, in which intuition is impossible. In the

Act, Einstein simply relies on non-Euclidean teachings and

Reports. But in this way, by a faulty circuit

One does not get rid of the infinity. As on a sphere, say

The earth's surface, "hump 44, the space is also supposed to be

Even humpbacked, quasi-spherical. Similar to the room lengths

Einstein change by the difference in speed

, The space itself must be determined by the action of "masses

Small changes - as if such hump-

Would be understandable and have any sense if not

Provided that there is the nasty obscene, of which the hunchback

. Of course, these wonderful things,

To be written to nature, we are usually said nothing

Remark: "even masses of the size of a sun affect the

Metric of the surrounding space only minimal 44. So, there sits these

Sun in space - or not in space? And this sun, which is called

Mass has probably a "spatial extension (or is the sun

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As a mass, a completely metaphysical, extraneous thing? ?), Now is

To the space, namely, the "surrounding a have an influence when

Also minimal, which makes this space itself hump-like.

Such an "RTH 44 does not move any further within the framework of the

Physics, becomes metaphysical, but unfortunately metaphysical with errors of thought,

With the use of a presupposition (a space with which the hunchback

, Which without this assumption can not be humped at all

Can completely destroy this concept), ie with the use of a

Prerequisite for the "refutation of this condition - - *

This requirement. One can not go into the field of philo-

Sophie, if one is not philosophical, not logical

The broadest publicity can help

Not only in the case of people who have only

Or not at all. Whoever wants to judge here,

Which right Einstein rightly and him as a great physicist and philo-

Sophen, must certainly be either physically and physically

Philosophically, or at least the other

Site. Audiatur et altera pars - - thoroughly, not

Only after a brief exhortation.

"Converted Refutation of the Formal Relativism of

Einstein and related "(1921),

ARMIN GIMMERTHAL / BONN

THE RELATIVITY PRINCIPLE OF CLASSIC

MECHANICS AND ITS FALSE BY EINSTEIN

In a work I have just finished, I prove "four relation sets

And a relation system, a complete refutation of RTH 44:

1 The fact that REST is in contradiction with irrefutable reasoning,

In particular the addition principle and the relativity-

Principle of classical mechanics;

2. That Einstein's formulation of the principle of relativity is a falsification

And that he must have carried them out in order to

To be able to divide;

3. that all transformation equations satisfying these assertions

Are false;

(4) that intuitive intuitions about space and time are untenable

In particular, that the concept of "simultaneity"

Measured ideas;

That a relativization of simultaneity is a manifest nonsense

6. that Minkowski's "World 4 * 4" is a mathematical phenomenon,

As a result, is a counterfeit

* Mathematics of the theory, properly understood,

Are fully confirmed.

Errors and fallacies in RTS ". Langendreer. 1926.

(Motto: "But the laws of thought are inexorable." D ingier.)

* ^

Professor Dr. LUDWIG GOLDSCHMIDT / JENA

UNKNITNESS AND WELCOME

In my essay 1}, statements of the embryos are flush and know-

And so-called "RTH"

Understands nothing about the relativity of sensory knowledge and

Does not serve the name of a "theory". Everything in the

And his founder Weyl,

Is partly ancient. What could be described as new,

Is an error which, from my years ago and, as my writing shows,

Is predicted by Kant.

Einstein and Weyl move in a field for which exact

And secure philosophical knowledge. Your

Ignorance, however, is only surpassed by the grotesque inflation of one

It is also conscious of itself, which can be characterized by the following words:

Everything Einstein does not understand, because to understand knowledge

Are necessary, which are wanting him, "is without sense and dark 66.

To see the error of their speculations, Einstein

And Weyl have to study for several years.

I have not spoken a word of the writings of my work,

Increase.

Professor Dr. AH DE HARTO G / AMSTERDAM

PHILOSOPHICAL BASIC FIELDS

Not for the sake of Einstein's great talent and importance on the geo-

But to the extent that many believe that

By its theory everything "has become relatively 66 and nothing more fixed

, We are also contributing to this work.

For this reason, however, he takes our contribution in the whole of this work

A peculiar place. We do not want to agree in the post-

Oppressive "44 of this publication and still wish to participate

To cooperate with it to make premature conclusions and unfounded conclusions

Skepticism.

There are five points to which we want to point.

To the first, if from a subjective point of view the scale

The temporal orientation may be altered, it is not yet said,

That the time is not a "form of existence" in the objective action-

(See, for example, Ed. Von Hartmanns transzendentaler

Realism). The subjective orientation in the midst of temporal events

May be relative, but at the same time an objective time-

Spatial constellation, which is not readily compatible with the sub-

Orientation.

Secondly, if the subjective orientation in time

1) "Against Einstein's Metaphysics. A critical liberation. "Lübeck 1923.

If it were found to be relative, the

And geometric numbers and formulas with which the

Subjectively-relative orientations, as such, as constant

Arithmetic and mathematical data, under which the relative

Of temporal orientation.

Thirdly, if relativism should be mentioned, so

This relativism, in the midst of the RTH itself, is only physical, ie

But only in relation to natural, material events.

But these natural, material, physical events exceed those

Aesthetic, ethical, philosophical and religious values, the whole

And do not stand or fall with a possibly physical

Done. This is because these values are shown as "duty" 4, "idea"%

"Ideal 44 etc. over -natural, indeed against-natural. The evaluation of this

Values are therefore not a physical, but a metaphysical one.

To the fourth, even if these values should turn out to be relative,

Yet the human mind still refers to all these relative values

To the Absolute, to the thought, the Spirit, God or what Word

One may also choose to mean that the unity is in-

In the heart of science, wisdom and religion.

To the fifth is just the assertion of a limited space

Very suitable for scientific, philosophical and theological

Discussions on the spirit transcending this all transcendently

To be used.

DipL-ing. Dr. HANS ISRAEL / BERLIN

MATHEMATICAL DISCHARGE OF RELATIVITY-

THEORY

The mathematical computation of the RTH is so error-

That only his astonishment at the

* Can express. Some samples should suffice for the light-

Of his method:

1. The substitution x - vt - x 'does not apply to the reflected,

The Michelson-Inter-

Ferometers. The coincidence of the stationary and moving mirror becomes

In this case by the substitution x + vt = x '. After that

The principle of relativity is no longer general. Einstein calculates in

Its differential equation itself with the velocities c - v and

Cv, correspond to the above substitutions. So he has himself

Refused

2. The relativistic shortening \ j \ - 1L results only from that

'C 2

Mean interferometer, while at the other two

Mirrors a quite different value can be calculated. But Einstein claims

Constant; After that, everything has shortened evenly!

3. The addition theorem of velocities is given by Einstein

Only obtained by the rough calculation error, two speed-

(C, co) by the same coordinates £, r, and

In spite of the new substitution § = cot the factor c J of the Lorentz-

Tion, instead of replacing c proportionally by m.

4. Einstein overlooks the relativity factor β

The rotation impulse of the earth's surface of 426 m / sec, while still-

Silent the movement of the solar system to the state of the solar system

Hercules of 19 km / sec. Thus, the

To the reference system, which means that the light-

In contrast to the relativity principle.

5. Since the aberration is a consequence of free ether vibrations,

The Miehelson interference occurs in earth-bound light

There is no reason for the two types of light to behave identically.

Rather, earth light must be internally related to the earth potential.

6. By transforming the Maxwellian light wave equation:

X 2 * + y 2 -f-z 2 - - c 2 t 2 - 1, the t-coordinate is given a certain position, without

Which results in a physical change or a fourth dimension.

7. The gravitational field can not be controlled by an accelerated system

Since both systems are not equivalent. The substitution

- - - ■ j ^ / | There is therefore no coincidence of the gravitational

Field with the oppositely accelerated system.

8. The Newtonian law of gravitation finds Einstein only through the

Invalid substitution ds = dx 4 = dt. It interchanges categories

Different meaning and thus confuses mathematical equality

With physical equivalence.

9. As the strongest electrical influences are not successful,

Light beam, it is unheard of, credible to mankind

To make the gravity get the ready. Rather, we know,

That the solar atmosphere, like a gas ball, can bend the incandescent light.

10 * Mercury deviation is obtained only by the faulty Einstein

To calculate this relativistically, the classical rotation 2 n

however, to be determined by the usual method. A physical

Explanation is not given. In our view, however,

by the rotating solar electric potential a fettering of Mercury

arise, through which it hurries fast.

11. An agreement of electrical and mechanical processes is impossible

purposes, because their masses behave differently with respect to the inertia.

This is conceded that the difference is alogischer nature.

Since Einstein above error of his work has taken note 1)

without being able to refute it thus has the fiasco of RTH mono-

stood.

i) See "d. V." proof why Einstein RTH shelved is to lay ". Hiflmanu,

Leipzig. Furthermore, "dissolution of contradiction Kant's doctrine. 4 Schwetschke u. Son,

Berlin.

HUGO KELLER / LÖBAU i. S.

THEORY OF RELATIVITY

The RTH maintains the constancy of the speed of light for each arbitrarily moving system. When two heavenly bodies with the speed velocity v approaching each other and one of these two bodies a light beam emits, so is the RTH according to the assessment of light speed regardless of whether the light vehicle is moving and the other W eltkörper at rest or, conversely, the light carrier in peace and other world body is moved toward him. The state of absolute Peace does not exist, but only to the relative movement.

To the light ges ch windiness for each arbitrarily moving system con- to leave his stant, are space and time dimensions of the state of Movement changed. Room dimensions are in the direction of movement shortened, watches go. An observer B is at an observation

A eighth with velocity v - 100000 km moves. Then follows

from the RTH that for B (judged by A of) the Kilometermaß on

707 m, thus 300,000 km to 212,100 km, total ammenschrumpf s. B

now stated not a light speed of 212 100 km

the second, but for him are only 0.707 seconds elapsed. thus takes

and B for the speed of light the value of 300 000 km through the

Second. B must therefore (always judged from A) be Kilometermaß

ablate 424 300 times, by the distance of 300,000 km, which light the

back in one second to get. Exactly the same difficulties

speed results in the definition of v with respect to the resting or

moving system.

If the thesis of the constancy of the speed of light

each arbitrarily moving system would apply, then it would be the fiscal

passed, the 300,000th part of the seconds -Light path as kilometer fixed

enforce. Either that Kilometermaß would be different for all

moving systems the same, or it would be - and thus also of the light

path - ; different. In both cases, a relativity would

no longer makes sense.

A train is judged from the embankment of various length

have, according to whether he is at rest or moving. If I have a moment-

photograph of a moving train doing so, the results of a different length

as the photograph of the stationary train, although the train during

short duration of the recording can both cases are considered dormant.

Thus a differential calculus should not be possible, as ever

the unconditional W ahrheit our mathematics by the RTH in question

is provided.

If two exactly gleichgehendea clocks A and B, the clock B

makes a trip around the world, it is the W iederzus ammentre ffen

with the clock A to. Suppose that the trip around the world in

performs against the earth's rotation 24 hours, so is the seemingly

moving clock B moves at rest and the other seemingly dormant A.

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A would thus be involved against B, and the clocks üb volunteering is compared

other in pursuing. Or A now combats against B, ie at the same

Speed I need for a trip around the world different

Time, whether I drive around so or vice versa. At the same time it follows that

the soil must have a different extent depending on whether I in

Sense or anti-sense of the watch fair. For the same distance

So two different values.

In some dark kind of "eliminating" the RTH this contradiction

with the help of gravity. The timing is different in fields

Gravitational a much faster. Accordingly, two celestial bodies

of different size, from the same moment the Umebel

incurred, miscellaneous old, because what for a hundred thousand

mean years, are for the other more or less. Even the one

individual parts of a planet whose common birth s hour the birth

is hour of the planet, have different age, because their gravitational field

is different.

And why strikes us the RTH such Un Vorstellbarkeiten to?

The answer is that it is a "simple explanation for us 44 known

wants to bring and woblbegründete phenomena, it while on the

Areas of new research fails. The nuclear research, with what

unimaginably high speeds and short distances to

do (ie the given area for RTH) has, has no RTH

Thank to their success.

The success of the RTH is that they take the place of a pro-

lem of classical mechanics set hundreds of new problems

Has. It is also understood that the RTH to contradictions and

"Misunderstandings" just begging.

See. D. V. "The instability of RTH ** and" counter-evidence against the RTH ".

Hillmann, Leipzig.

Professor Dr. 0. KRAUS / PRAGUE

THE THEORY OF RELATIVITY 1)

The employees of Michels on optical experiment seemed to show that

the light emitted by a terrestrial light source to supply exactly

hold, as if the earth was resting, and as if the light source off the light

hurl like a missile, as if thus ektiltheorie a Project as

Newton's and Poissons would apply; or when a to-wave theory

.. 1) See d V "1, article: Frankfurter Zeitung, No. 163, 3, III, 1927, where the above.

Text is taken. - 2. "fiction and hypothesis in Einstein's RTH", Ann.

d. Phil. II, 3, 1921 (Special Issue for RTH). --3, Kant studies, XXV, 1, 1920 (21); "to

Doctrine of space and time ", Brentano estate. - 4 Kant studies, XXVI, 3 and 4, 1921st

(22); »» The confusion of Bescbreibungsmittel and Beschreihungsohjekt in the inputs

Einstein's RTH. ". - 5. Lotus, 70, 1922, 'S. 333 ff - - 6. Arrange, XXV 1921. "The

Impossibility of Einstein's theory of motion ". - - 7. "Open letters to Einstein and

Laue ". BraumülleT, Wien u. Leipzig 1925th

2 Einstein

17

reasons shall: as if the light ether would taken from the earth as

about the air in a ship's cabin. disagreed Both assumptions but

the lord nimble electrodynamic theory of a stationary ether of

HA Lorentz. According to this theory, our earth can in their journey

completely through the unresisting cosmic ether this alone; therefore sent

Michelson in his famous experiments light waves in the travel expenses

direction of the planet and in deviating Directorate back and forth, so

one had according to the theory of a stationary ether of Lorentz

expected that the light waves depending shorter or a longer

have long way to go and sooner or later, when they arrive

would arrive when the ether would entrained.

So how should we explain that the Michels on-V beseech so off

fell, as if the Lorentz marriage theory would be wrong? It was a very

daring hypothesis, as Lorentz, instead of changing his theory, supposed

that the Michelson apparatus and in fact every body quantum

tative change when it moves, and in such a way that the

Michelson apparatus and ever each body in the direction

its movement along prefer! Through this, Kontraktionshyp o thesis "&

succeeded Lorentz, his theory with their contradictory results

bringing the Michelson experiment in harmony. This hypothesis

Lorentz may seem strange, but it is certainly an attempt, the so-called.

"Negative result" of Michelson V urge s while maintaining

causally to explain the hypothesis of a stationary ether.

After Einstein but the contraction is "just a consequence of viewing

tion example, any change in a physical reality "(Born)

which can be seen with all evidence from the fact that the Einstein

Contraction only "for the non-moving observer" statthat,

THEREFORE orhandensein of the V and the arbitrary stand

points of an observer depends, while the Lorentz - K ontr action

as an independent from any observation of physical V organg GE

is covered.

Fter Einstein arises a very remarkable Reprozit ät: for

Observers remains unchanged on the same system all; for him

it is not true that any length of his body due to world

shorten the movement, or that any of its clocks slow

go. But the observer on the not moving system measures the

Lengths of the other system as shorter times than longer. Eddington

English advocate of RTH, has exceeded in its at Teubner

translated works specifically on the fairy-tale of the reciprocal

Pseudo measurement out that has nothing in common with the Lorentz Hypo-

thesis of a real reduction than the mathematical formula.

Here only had so much to say that Einstein's principle of relativity

"Postulates" that there must be at the measured comparing the rate

a light propagation (c) with that of a rectilinear uniform

Movement (v) any other movable thing always a

Difference in speed of 300,000 km / sec in favor of light

result; in other words, the speed of light "plays the role

an infinite speed ** ', opposite each other GE

speed disappears. The paradox that measured for the

Comparison always c - - v - c is shown is that reciprocal comparison

change of time scales (watches) and continue the Raummaßstäke

to make understandable searched 1).

The change (reduction) of space standards takes RTH

Although quantitatively the same, but - as above from - in one of

the Lorentz contraction before various ways, namely only for

the observer on a non-co-moving systems. It is

But it is of course, not to actual experiences

but "postulates" and by erlaufe in another room dimension V

and tempo (PM) be equated with time and space, resulting

those overturning teachings about the relativity, simultaneity and 4

the frailty of everything that common sense as well

as that of Newton, Euler and Kant holds evident for a priori. RTH

but against it remains at the critique Prof. Wieners in Leipzig, who with

emphasizes my criticism unanimously: "We never can solely by the

Choice of the scale the size of a speed to disappear

bring, as in the principle of relativity by choosing the ERS

is withdrawing own speed possible. ""

Dr. W. KUNTZ / SPANDAU

Einstein's Relativity

VOID ANY EFFECT ON LENSES

If human research never to a chimeric

step "Absolute ** 4 penetration is so but its history has

proved that their progress is the subjectivity and relativity

ity of human conceptions by the objective validity to

replace. Just the liberation of relativity is the measure rod

for new insights. The RTH but rises in contrast,

relativity itself to the absolute principle, which they themselves

contradicts.

She goes in the other side of the optical experience and

neglected the findings of touch, the original as

the Ge is visual sense, as it is apparent that there are many blind, but no

completely Tastlosen are. The word "understanding indicated conspicuous in this

Originality out of touch.

Applying the principles of RTH and relativism on

other intellectual areas, so is every general guideline for

human effort redundant and even the difference between

Error and correct knowledge falls away.

l) Cf. v DC:.. "Einstein's theories of relativity and physical reality"

Barth, Leipzig, 1930's.

2 *

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Dr. EMANUEL LASKER / BERLIN

ANTINOMY THE THEORY OF RELATIVITY

Einstein's deduction overlooks the fact that the experience over empty space

can make anything. By c for the empirical value of about

300,000 kilometers per second uses and argues as if the void

the astronomical space is unquestionable, he arrives at a

Antinomy. In reality lim must be c = oo, as I in 1919

have explained, and thus the antinomy is resolved. The method of

Deduction Einstein is quite inconclusive and the method of

Dispute that he followed is irrelevant.

Professor Dr. J. LE ROUX / RENNES

THE BANKRUPTCY OF THE THEORY OF RELATIVITY

(Translated by Dr. E. Huth from it)

1. Einstein RTH has hervor- a vibrant spiritual movement

launched and various theoretical and experimental research

causes that have contributed to the advancement of science.

The theory itself holds j edoch a thorough examination

not stand. In light of the criticism is found that the predetermined synthesis

a sham is that only in a favorable protective half-

dark condition can-

The Zusammenhangiosigkeit the arguments and the childishness

the hypotheses are of the same kind. The conclusions have sometimes not

Relation to the premises, the basic components of the calculations

take as a result of a meaning that is defined in the underlying

does not correspond to what data.

One might of the methodological error ggehen hinwe,

if the results of a real F rogress would bring to our knowledge.

Unfortunately, this is not the case. The one or other obtained results

are independent of the theory and can be used in any way to

to support them.

It is known that the specific RTH on- the occasion of Michels comparison

Suches arose.

Now has her own Author nods the results of this experiment

understood properly analyze. He has drawn from them conclusions,

which in reality does not close in themselves. Thereafter, he has this

to explain conclusions by a series of hypotheses tried the

contradict and no relationship to the phenomenon

to have!

The theory of gravitation is quite weird. But here comes

to the lack of ability nor immense Duperie in the alleged

Declaration of secular F ortschreitens the Perihelbe we supply the Mercury.

The observed secular forward movement is about 374 ". Einstein

Theory is a shift of about 42 'at. Those Newton

explained on the basis of current findings, these pre-

upward movement up to 336 ".

lim therefrom to open the superiority of Einstein's theory *

is a little more than necessary blindest and anomalste W ILLF ährigkeit.

The impotence of RTH in this regard in all their supply

composition founded. She takes her own principle to output

point of their own, keeping it undertakes, material movements

by geodetic measurements in the form of square differentials

darzu- with four variables, through spacetime with four dimensions

put. This hypothesis is inconsistent with the gravity.

The attempts of mathematicians who more diligently than clear-

are carefully, logically incompatible things reconciled to

bring necessary failed and will continue to fail.

ln about fifteen years since the General RTH described

has been founded, it was impossible for her an approximate representation

position of the movement of the solar system, or any other

derive system. The promises made are not kept

been, this is a more significant failure.

2. The Me elson- attempt. excludes from the Michels on- attempt

the RTH that the relative light propagation speed for the

Observer is the same in all directions.

This conclusion is incorrect. The isotropy of the interference wave

does not exclude that of the F ortpflanzungswelle in to 1).

At most one can conclude that the agent, in which

the light propagates, or called Aether otherwise, under certain

Conditions homogeneous and isotropic in relation to a given reference

system is.

Returns to n län that the ether is affected by gravity,

so even the propagation law GE the following conditions

nügen:

a) It is a reference system S exists, procure such that the

F ortp fl anzungs medium removed in any of the material masses

Area with respect to S is homogeneous and isotropic.

b) invariably attached to the same reference system for each

Light source is the interference wave isotropic in a specific field.

e) For each bound to a material composition and of their medium-

led light source is the interference wave also in a special

Areas isotropic.

There are infinitely many solutions, whose common properties

are easy to determine.

The exact analysis of the phenomenon thus does not allow the curious

Conclusions which form the basis of special relativity. The

highly accurate results of new experiments of Miller are of the highest

Interest because it can help us to that we of the influence

*) J. Le Roux, "relativité restreinte et geometry of systemes ondulatoirs", p.21

(Paris 1922). Journal de Mathematiques, S. 223 (1922).

Kennen- matter on the conditions of the propagation of light

to learn.

3. The relativistic explanation of Michels on-V ersuchs.

After the relativistic school incorrect F olgerungen from

Michelson V drew beseech, they tried to explain them. Since the

rush equation with partial derivatives of the spread of W

for analytical transformation that a rectilinear uniform

Translation is, not withstanding changes to the meaning of words.

The transformation of Y-Lorentz oigt which of the analytic form

reserves in question equation, is named "Translation 4 *

baptized.

This is a ridiculous legerdemain. Translation is a

Ding, the V-oigt Lorentz transformation see another. There is a

Group of translations as there is a Voigt-Lorentz see group. The

both groups have in mathematics each their own territory and their

exact meaning. As these are matters of definition, can

they do not mix.

If I may use the V-oigt Lorentz see group takes Einstein

two reference systems; each of them is the observer added,

the letters with a complete set of measurement and off timers

is prepared. Each of the two leads in his own system, the length

measurements of, by laying the standards, according to the metal

methods of Euclidean geometry. The observer and the objects

have continued existence and even, it is said, by a

System go to another. Finally, the relationship between

the coordinates of the same, related to both systems ER-

eignispunktes produced by the formulas of Lorentz.

One notices immediately that these hypotheses do anything with the proportionality

ratios as they attempt elson- present at Me, have in common,

where only a single observer is present, neither of its timer

to be still the numerical value of the speed of light be fixed

has set.

4. incompatibility of ^ conditions Einstein. But

more: Einstein's hypotheses are mutually self logically un-

compatible.

There may two systems with variable S (X, Y, Z, t) and S '(x \ y \ z \ V)

each match according to the formulas of Lorentz. If a point

in the . System S to be fixed, so have x /, 'be constant, while t' y \ z

remains arbitrary. The equation that t 'determined, then does not

Role.

Under these circumstances ^ indeed suffer all bound to S r

j. un]? e. e ne 3 rectilinear uniform translation with respect to S; but

f * ^ ie nablen x, y, z are not Cartesian rectangular coordinate

ordinates within the meaning of S. The same applies apparent when one

^ Firm and t ^ sls any nniinint *

Einstein did not distinguish between the fixed instantaneous values

and the variable of arbitrary values t and t \ between a

permanent object and a moment event.

Now have the observers, their standards and timepieces

the system to which they are attached, considered as a permanent things

become.

After one of Einstein's basic hypotheses regarding the length

dimensions in one of the systems are two of the same items that the

the same systems are, by means of the 'variables of the system

before taken Euclidean T ransformation interrelated.

On the other hand, the observers after the made hypotheses,

the standards and the timepiece mutually from one system to

the other relative. The whole of these conditions would be achieved

demand that the transformation of a Euclidean substitution by means of a

Lorentz transformation still a Euclidean substitution remains -

which is not the case.

Einstein's interpretation of the Lorentz group thus encounters a

logical contradiction. The entire special RTH is based on this

fragile foundation.

5. Space and Facilities. In general, there is a RTH

Commingling of two things which unrechtmäßiger- mathematicians

as denoted by the same name: the geometric space and

the analytical areas.

In cases where 11 Variable auftret s giving analysts often

a system of numerical values, which are to divided these variables,

the name "Analytical point 46 and the total of these points

the name "Analytical room 44th The number of dimensions of the

contemplated analytic space is the number of variables that

composed him.

These definitions are purely analytical and independent of the con-

kreten meanings of given variables.

The point of the surveyor is another. For him, the number is

the dimensions are not a property of space, but an equity

economy of space do item.

This requires an explanation.

The location of a geometric point is determined by three coordinates

certainly. The totality of the principles of geometric points would

therefore form an analytic three-dimensional space. But a straight line

is determined by four numbers, also known as their coordinates

become; the position of a solid body is six coordinates

determined, etc. If one considers the line as an element, forms

the totality of the possible positions of an analytical area of four

Dimensions (Plückers orderly room). The totality of the layers

a solid body would be as a six-dimensional analytical

determine space.

For the Geometer the locus of points is the same as that of

Line or the solid body: it is always the same space.

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So the sense in the surveyor looked at as a place has no room

certain number of dimensions.

Classical mechanics considered systems, the position of a

any number n depends on parameters. The set of possible

union documents of this system is an analytic space of dimension tl

sions; the location of these possible positions always heard the same un-

certain space on the Geometer.

The point of an event in the relativistic sense is

three position coordinates, which are connected to a value determined.

Their totality forms a four-dimensional analytic space.

If the event from the simultaneous viewing of two

Positions; and a time value is composed, is the Total

an analytic space of seven dimensions.

The set of possible combinations of two completely inde-

pendent trigger points would an analytic space of eight

form dimensions.

F urther examples are unnecessary. The satisfying given here

to make clear what the main difference for Surveyors

exists between the real space and the total space. There are

two different terms, which are referred to with the same name *

6. The relativistic spacetime and the analytic space

the Bewtonschen gravity. Relativity has only a four-

dimensional spacetime in mind that they in the form of square

Differentials investigated; this is to play a role similar to the

Limenelement a surface in geometry.

Gravity would hereafter square by starting from this

tables of the form are determined. The natural movement of a mate-

ellen point would stand- by a geodesic line of the speech in

the differential form be shown. This geodesic is his

World line. Every moving thing corresponds to a geodesic line.

In classical mechanics, there is something similar. The principle

the smallest effect results in that the representation of the loading

motion of a system of a geodesic in the form of square

Roommate differentials emanates. But one has thereby the motion of a

the whole system, which is considered as a solid whole, in Äuge, and

more that of a single element.

The square shape comprises then as many variables as necessary

San to determine the vague of the system, and it is the movement

it whole that shown by a line of the form in question

is provided.

1u P s ^ t ^ U1 nsick z. B. the universe as a whole by

^ Assenpuim.ie si formed., The position of the whole of 3n variables

a ^ taagem The corresponding analytic space 3TL dimensions

a. * E "Cli 'does not form complementary coordinate, because the movement

^ ^ 1ÖeS he * mes 8 series * whatever it may be, leads from the totality of the

Movements of the universe away.

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The mentioned quadratic form is the following:

UZ mds. 2

U refers to her as a function of the coordinates of the system.

The calculation takes t to see the introduction of an auxiliary variable,

defined by the equation

V mds 2

dt = 2 *

2 U

is determined. This allows the recycling of the geodesic

Differential equations in the usual form of the equations of

Mechanics. This auxiliary variable t is the canonical time of classical

Mechanics.

The canonical reference system is the one for which the

kinetic energy of the observable universe is minima.

When you finally U after a minimum requirement for the

determined energy of the accelerations, one finds

U = f 2 'mk + h

r ik

wherein nt} and the masses of two elements and T & their removal

describe. This is the first law of Newton. The equations of motion

then have the form

d 2 Xi dV

m 'dt * = dx ,.

These equations contain not only the coordinates of the loading

sought point, but also those of all other points of

System, so that the unity of the whole is given *).

An interesting fact of the relativity which classic the

Mechanics reveals, but the school Einstein has escaped, is the

relative nature of the principle of equality of action and counter

effect. This principle does not speak of a property of matter:

It is a property that comes from the choice of the reference system.

7. About the U nmö possible speed of presentation of the phenomena

gravity through Einstein's theory. It remains to

prove that it is impossible to shown the phenomena of gravity

see if we start from the basic hypothesis Einstein.

It is a square shape of differentials of four variables T

Xi * x 2, xa, x. 4 Let the equations of geodesic lines of this form

be written as follows:

dT _

d (dx)

dT

d (dx)

dT

dT

d dx,

dT

d T

dxp

d (dxk).

J) J. Le Roux,., Principes de la mathematiques theory de la gravitation ".

Paris 1930's.

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They allow three of the coordinates as a function of the fourth and

express six arbitrary constants of integration. Two solutions

differ solely by the numerical values of these six

Constants.

Consider two solutions which the movements betw r eggs described

constitute arbitrary material elements. Suppose under fp y 2> 7s' y *

the coordinates of the elements of the first, z 3, z 2, z 3, z 4 DieJ enigen

the second to understand. One can assume z. B. that y l9 ys

as a function of y 4 are suppressed from Ge, as well as Z 4, Z 2, Z 3 as a function

z. 4 But there is no necessary relationship between y and z 4 4:

There are generally no necessary relationship from element to

Element between two geodesic lines. It might seem a

Such herstelien by, for example, y 4 - is t, where t is a time -. z 4

designated. This agreement is in no way essential. To the

Differential Equations (2) would not change anything if you first for

4 line y = t and for the second z 4 = t + a sat, where a is an arbitrary

means constant.

The absence of a regular relationship between the event

points of two different geodesics is the main reason

the fact that Einstein's theory is inappropriate, gravity phenomena

represent. One can from the theory differential equations produced

lei th, which is more or less that of the movement of a single

are approaching the point; you will never from the equations

refer to the movement of, no matter what, fixed system

can. At the Seheitem of attempts to GE in this sense

has power, is not the difficulty of the problem or the inability

the authors fault, but it is in the essential contradiction

founded between the principle of Einstein's theory and the

Fact of unity there.

Ls is not even managed to the equations for the motion of a

establish system of two bodies, which described on a reference system

be attracted, not as the starting point has one of these bodies.

The secret of this impotence is the restriction of the

Problem of gravity corresponding analytical space on four

Dimensions.

The analytical mechanics, from the superstition of spacetime

is irei, solves the problem neatly and precisely, by the necessary

ariablen number of \ introduces.

The relativistic mechanics stomps on the same spot, unable

get out of their fourth-dimensional prison.

The four-dimensional analytic space Einstein does not contain the

3 n-dimensional analytical points which each layer of a whole

meet of n material elements.

While only individually for this reason, the relativity of the elements

can handle, classical mechanics deals with the whole of the

observable universe in its totality.

8. Gravity is a property of the in in its history

totality considered observable universe. One described

seeks commonly gravity as a law of acceleration

or interaction. but the problem is its true In this way,

Nature deprived. The so-called. Newton che effect which is inversely proportional

is the square of the distance, is valid solely for the on particular

agreed reference systems related movements. Since these systems by

oriented the stars, they hang in reality of the

See complete from the observed stars.

The W ording of the law of attraction is also the choice

a special shopping point for the time ahead, so that the acceleration

tion can be determined. This canonical time is also fixed

set theory by considering the entire universe, practically

illustrated by the apparent rotation of the starry sky. It is always

the whole of the universe, which comes into its own.

emwirkungen The concept of two equal and directly opposite F

initially seems to resist our minds. We prove

however, that:

W hat kind is a moving whole also, which also

the movements of the elements that compose it are,

- There is always reference systems that are sound for so that

the relative movement of the whole with respect to a particular

arbitrary individual only in him and solely on the basis of two

mutual, equal and directly opposite ef-

fluctuations appears to occur.

The mutual distance effects are therefore essentially a

Fact of relativity, which results from the determination of the subscription

system results.

Einstein's method made it impossible, this significant result

uncover.

To finally the law of reciprocal action in one of the

Choice of reference express variable independent form, would

is the totality of the parameters of for determining the position

observable universe Total serve use.

Also exceeding the possibilities of the method of Einstein.

The certified by the relativistic school results appear

only when adding them as satisfactory without criticism. this applies

z. B. from the deceptive indication of 42 "for the Mercury rather than 374"

and the inability of the method to explain the rest.

9. Conclusion. These general findings make an input

go to various irregularities in the way and on the pseudo-

geometric theories of relativity expendable. You win with them

same impression and finds the same lack of criticism, connected

with some assertions mean the outright absurdities.

My very clear conclusion is that the RTH Einstein

not part of the field of positive science.

Professor Dr. PF LEFT / JENA

THEORY OF RELATIVITY AND PSYCHOLOGICAL TIME

My opposition to the RTH occurs after this believes

to make philosophical ideological statements *

In itself, it may be denied any physicist, its science

Community, as now customary in a (completely or at least in its essential

Points) positivist instrumentalistisches Erkenntnissy-

system to install and say: physical records are "true"

if it is possible with their help, some due to observation

calculate phenomena other phenomena, and thus correctly

"Predict".

In the one so understood physics building, the RTH allocates

♦ not only casual one, but also forms a particularly penetration

union prove its feasibility.

The only question is whether this feasibility DER not at the expense

jenigen object of the research is to be achieved, so far as their value-

most, so real as her and, if Ideological Issues in sawn

costume come decisive been viewed; the Ergxündung

the truth.

Because "truth" in the sense of positivistic understood physics

is fundamentally different from what the natural man under

W ahrheit understood and to understand has a right. While the real

Truth always refers to an existing per se being, wants the

positivist "truth" to be nothing more than a mere instrument to

Calculation of phenomena and can withstand about a foundation

Yes resisted by principles that wrong in the sense of the real truth

may be manding: it reveals itself as a - - in other

Meaning technical matter of peripheral knowledge worth

World on schauun gsproble me no importance: because where can

the nature of the case be served ahrheit only with the real west. -

Daii a Zuendedenken categorical basics of RTH tat

neuter leads to logical difficulties, almost is to a candid

secret. One of these difficulties just because they elementary to

tarsten conditions of the theory in question heard often overlooked

will be outlined briefly.

R. Weinmann has pointed out that Einstein in his physical

ical definition of simultaneity simultaneity already ahead -

setirt; "Two spaced apart light signals, A and B, are for him

simultaneously, when it is in the middle M "meet" - namely, (which also

körnte this otherwise hot?) take the same "1).

You will reply: Einstein's definition concerns naturally

only the simultaneity of events in different places: they

all s tehe in question. The simultaneity of two events at the same

the spwäeßen RTH "(Nature u. Culture, Issue 4). Tyrolia,

Innsbruck- W len-Munich 1930's.

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Type (or to two directly adjacent) is wholly unproble-

matically.

But is that the case? Simultaneity requires time and because it

are several equal times after RTH, may be asked,

within the meaning which time here simultaneity exists. Hugo Bergmann

are (for this like for like hours all) following Bergson the answer

word that here extends the psychological time in the Physics 1).

In fact, the physicist is always when he makes time findings,

compelled directly experienced simultaneities (namely that of the achieved to

inquiring physical Geschehnisses with the pointer position his

be stated pm) and thus a directly experienced time in his

incorporate results.

Bergmann does not recognize it as a contradiction, "that physics

is capable of the psychological time entirely of their definitions

building excluded but also is unable to provide them with their sawn

cope attacked 4 * 2). Of course, to the yet nothing essential

against the categorical structure of modern physics (and thus also the

RTH) state, because - as it said - "the world of physics is a

achieved world of abstraction, and we may no longer of physics

wait, as that term within their means abstraction purely out

out is 44th

Now this is certainly true, only one would have strange abstraction

be, that would be able in the abstraction found contradictions screwing in

carry, which are not present in the, from which it is abstracted.

If I and from the terms of tables, chairs, benches, cabinets

Beds of the furniture abstracting the so this my abstraction would certainly

defective if in the term of the furniture a W would have iderspruch.

Above all, there is a psychological time in the forward-here

set Bergsonian sense (as some of the physical time coordinate

ned) not at all. The so-called. Psychological time is rather the

Time experience as opposed to the time itself; the apprehended in experience

and by the view, more or less modified time. you behave

at the time even as the ascending of our immediate experience

combined number (about a point group) to factually present number

behaves. From a psychological time in another as this very

speak secondary meaning, is wrong in fact as well as if you

speak of a psychological number and say about wanted when

125 perceived points are estimated at 60, so is here a particular

special psychological number of 60 points available.

If there is now no special psychological time, so they can

are also not used to the uncovered top of us logical

eliminate inconsistency. Rather, these remain unchanged as such

consist.

«Ä -

• l). "About some philosophical arguments against the RTH". Kantstudien Vol. 33,

S. 38r ff.

*) Aa 0., S. 404th

By the way: from an actual. Eliminating the question com-

unanimity is at Bergmann no question, what he is doing,

is only to soften them, to push them to speak on a dead track.

But yet she is also for him, and it remains nevertheless noted

that such a staunch advocate of RTH as Hugo Bergmann here

has recognized and highlighted one of its fundamental weaknesses.

See. D. V. "RTH nn d relativism 44, Ajan. d. PhiL II, 3, 1921,

Professor Dr. STEN LOTHXGXUS / STOCKHOLM

THE CLASSIC PRINCIPLE OF RELATIVITY IS

VALID FOR PHYSICS IN WHOLE AND LARGE

AND ALSO FOR THE OPTI SCH - ELEC SCHE WORLD 1)

While physical theories generally on the principle

the usual rate are established, so take up this theory

for the interference of light an exception. She has become the cornerstone

the reverse speed selected. In itself this is not a

Error.

When in invoices the cornerstone of a theory and forgets

performs arithmetic operations, which contradict this, you will be on

Stumbling blocks meet. In this case, where a per se

and relies correct theory, a mistake is forgivable. He

can happen to the best: Nemo omnibus horis sapit. Such rows "

errors are, however, extremely annoying and difficult to detect, and, once

once made, they have a tendency to become chronic. Even after

had getänden that the logical consequences were essentially meaningless

and thus was a miscalculation, you could quite long

think about what this internal opposition was based. One wanted

certainly not fitting a theory which even with a repeated

Examination proved to be correct. It only remains, in a logical way

to consider the letz te basis of the theory and consider whether these

which is only conceivable or of any opportunity and, in

such a case, the correspondence between this other basics

and the range of each explain.

ru 611 * 31 ^ light is referred to in the water, with the c

Speed of light in a vacuum, with w that in the stationary

ater and the water velocity is v granted Fizeau has

. "I Bef author mmmt, concerning, of light, a very mechanical view

wfii E l eraehtet 'that Ficht rays and the electrons are elastic wires whose

SwT s3 ^ ^ I92oT Notwendi Skrit any ether held (Esqmsse

the TrJrf 8dt? em T 1922 'the author as his view emphasizes that

Nf ST 1 Lorcnt2 * the mathematical aspects ans, is faulty.

In its place in German translation a short excerpt; out

and the Turtle ^ m scßwe <hscher language come out working: "Achilles

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according to his famous experiment as to the speed of the

Light in the current water, according to the theory of interference, as GE

searched retardation found:

&

.w

V

C

w 4 * v,

2v

W

2v 16

c. 9

After the division of the wavelength it reached a value even once

times as large as the one which auswies the experiment, and, therefore, and in

Following Fresnel theory 1), he explained, the Mi tführungsko efficiently

whether in this particular case 7/16. -

Now to the problem concerning Achilles and the tortoise. Now

but we do not deal with the amount of time it requires for him,

reach, but we calculate the path of the moving-made

theoretical one, as we do at present, in a

Way to calculate the displacement of the interference wishes which, according to

the different speeds of the two light beams emerged,

it is of course necessary, the W to know first eguntersehied,

before one can engage in it, to be divided by the wavelength.

If c is the speed of Achilles and the speed w

is of turtles, you will, as a turtle with the speed

ness of W * 4 "V runs and another only at the rate of

W - V, find the path difference:

System.

If

2 v

c.

If the expression is divided with the wavelength L, is replaced by

C

one numerically the comparison found by Fizeau through experimentation

displacement of the fringes of interference. This is a victory for

the classical principle of relativity, as is demonstrated how the history

speed of light to 4 is changed v what speed the

speed of the water flow was.

Professor Dr. HJ. MELLIN / HEL SIN GFORS

THE UNHALTRARKEIT THE THEORY OF RELATIVITY

check makes for a logical things in the expert com-

very short and simple outline durability of RTH. Because the

Simultaneity term and the equally central concept of existence

- Both to the indefinable past circumstances or basic *

l) The idea of Fresnel deals with different densities. In my

silent sense, I assume that when a carafe of water on the table

has followed about walking with the carafe in the room, the water in the two

Cases will have the same density. Fresnel was of the opinion that a part of the ether remained

and another part was carried away - it is a bold and somewhat arbitrary

Liche arithmetic operation, the arithmetic mean number from the struggle of pulling

"Calculated between these two ethers.

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comprehended include * without which no thinking is possible - are medium-

another such imtrennbar connected that even with the concurrence

thought and asserts the existence of certain things is: in the

Mathematics the existence of thought things in physics, the existence

of real things "Conversely, even existence without absolute

Simultaneous things absolute nothingness. Since the RTH absolute

Simultaneity denies it denies it (unconsciously) not only

mathematics, but also the empirical reality. So fabulous

short and simple can be a compelling evidence of the empirical

make and logical inconsistency of this "theory 44th

The key point in the immense relativistic confusion

earned while in some detail in the context of other fun-

mental concepts apart to be laid. Without the just GE

called two basic concepts, as I said, no thought possible.

Even the indefinable quantity term (z. B.) requires that the

intended objects in question as coexisting or

be postulated, whether they are moving or not. denies

If the simultaneity, so denying apparently also the paying

term. Without simultaneity can also uniformity,

Unbelievers eichförmigkeit, speed and acceleration even

no question. Consider, in fact, the most general case,

where two bodies or points P and Q along their resp. B ahnkurv en

move from the initial positions Pq, Q 0 simultaneously. It may

rest the trajectories with respect to each other or move as

want. Anyway, we say f that the movement of P uniformly

aut respect that of Q, if the ratio of the back at the same time

geiegten routes (railways) P 0 P: Q 0 Q continuously in each

Moment (time) maintains the same constant value C (or

shorter: if any but the same distance traveled by Q distances

contains always the same proportional distance traveled by P distances

speak). C is the velocity of P, when the movement

viewed from Q as normal movement or time. this is a

* The amenerklärungen official definition or true sense with N

(Nominaldefimtionen) must not be confused.

Here, then, must be absolutely simultaneous layers of P and Q un-

conditionally. be postulated if the uniformity and the

wants to make speed concept at all and apply. At this

Defini tion is only a. Compare imaginary, no "-

but consistently to observations, let alone measurements.

Thinking is to compare and settling of relations 1). Of the

ern point of relativistic confusion is now just in

the fundamental misconception that a (physical) term by

Measurements and observations could be defined. The characteristics

} In the actual thinking we here do not expect that all thinking about

Dnmde hegende imagining.

worthy of this is that an exact opinion on this issue only

requires basic knowledge in the theory of quantity. the relativists

So lack the most basic knowledge in the theory of quantity, nevertheless

they also want to be a mathematician! In fact, one must have especially

know what to measure, before you can measure at all. Of the

Term (the size) must be in the consciousness thus either as indefinable

Datum or be present as already defined term. The attending

apt term, in other words in all cases an empirical

and logical requirement of measuring: an empirical, because the

Measure not implemented a logical, because it is not intended

may, without previously the term as one to be measured Assertiveness

has been thought. In short, the term is empirically and logically

primary, F rühere (a priori), measuring the Secondary, swarf

tere (a posteriori).

Measurements and observations put so without exception always

something Measuring or to Watchful, ie an already

final term ahead. Thus if the physics and an empirically

logically called exact science, so it must never a phrase

Define by measurements and observations. This creates un-

fallible a logical circle.

If one has this un umstößlichen logical W made clear ahrheiten,

as well as the empirical and logical U nh ALTB axkeit the RTH is without

Another clear. It is empirically untenable, mainly because they absolute the

Simultaneity dispute without which the empirical reality

can not be thought. Because the nature of this reality,

that material things exist simultaneously, as well as to

like move. It is a logical impossibility, mainly because they

the absolute simultaneity dispute without which uniformly

moving inertial systems "which it presupposes have no meaning.

Without the absolute simultaneity can of uniformity even

no question.

These are the F ollow the enormous error of RTH that it the

logical compare replaced by the technical measuring. you

do not even know what uniformity and speed

is, because otherwise they would know that without the absolute of these terms

Simultaneity can be no question, and would even less

to imagine the pointless task, measure simultaneity **,

what that reason is an impossibility because no simultaneity

"Size 64 is! To solve this senseless object is a "pre-

magazine 64 set! Such s innl osen "Forschriften 44 called" assignment

definitions 44, and although they are called so in relativistic "Axio

matik 66! - The RTH is the monstrous freak of illogical

Thinking and is for all time a cautionary tale of an uncritical

Time remain.

The above-mentioned here has obviously from all philosophical views

regardless of time and space. Cure the most elementary knowledge of

M

3 Einstein

the size of teaching have been used up. It should therefore not achieved

present considerable difficulties, the general public a right AUL

teach abstract of the unsustainability of the RTH.

execution

"The airwaves and the

J. A WA w MV Tr - ^ 7 - - -

- "The ether and the ether voltage" ', ibid XXX (45 p) -. ...

Ether voltage ", ibid XXX (10 p). - "The ^ eltgebäude in light of the f?

voltage u, ibid XXX (36 p). - Separate: Academic Bookstore, Heismgto *.

LOTHAR MITIS / VIENNA

FACTS AND A STONE

The facts misrepresented by Einstein can be properly

follows pointwise summarize:

1. All normal natural phenomena, whether oaet energetically

be construed material, subject to exception, the most powerful au

Monisms, gravitation, they are heavy. Among them is particularly

also the sound medium air and the light medium ether.

2. exist for sound and light, apart from the Malabar

their F ortpflanzungsmittel also listen to numerous far go e

Analogies: Both phenomena are vibrations, in which their ess Me

by vibrating, or, luminous bodies are mixed. place both

other things being equal in equal times same way

back, so need to reproduce a specific time. In Alike ^ ö

Medium done their reproduction straight. Both are reflekti e

or from otherwise directed. Both move in waves. purpose e

Perception have check in the sensitive creatures own Orgaüjj

educated. And so on. The to the Barik media of ^ ^

and light relating analogy is therefore a veritable Selbstverständlic

ness. The same result is also from the Planck's theorem "

Undulation always with Korpuskularbewegung Together trap * eT1ie m

even after Broglie, who also physical for a Lichtwelten

takes.

3. The etheric gravity must therefore normally the fact -

, A 5 ™ Beam with appropriate approach to a welding 0

is curved üurch attraction least. Such curvature

uurch Eddington also stated.

4. As a result of air severity nobody should get the idea decaying ^ 51 ^

wanting * acoustically detected by about angenomJ ^

was that the velocity of the SchallweUen be different

j nac em this in the direction of Earth's motion or in a to f,

^ Rect observed. Because the sound is in aüen cases

irdÄ T 'S0Üte nobody ^ Earthmoving optically gf

want to prove rd, 8chc light beams). Michekon, dek the A **

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heavy was still strange, wanted to provide these optical detection,

but achieved no success. The failed attempt showed that

Earth and earthly light beam the same motion system to include,

that the light ether is difficult.

How now responds Einstein on all these findings that which

sober philosophers, physicists and astronomers as naked Binsen-

truths represent?

The point 1 (ether seriousness) he denies. The light is for him

a purely abstract, intangible and therefore from Aryan marvel.

The point 2 (analogy for sound and light) he evades. Also from

the sets of Planck and Broglie he draws no or at least not here

relevant consequences.

The point 3 (b Aryan curvature of light rays) he treats

also with the elimination of gravity. This curvature is

occur not as a result attraction, but for reasons which on

the fantastic notion of curved and finite space

based.

From his starting Aryan attitude regarding point 4 but (Michelson

Test) means that all adventurous world wonders to himself

Realization of uniform entrainment of air and ether directly

volatilize, purpose awareness of "negative" result of 18

Michelson -Versuches * - for Bariker this result is positive -

provides Einstein two "postulates" (unproven conditions) wonderful

dearest sort on, namely:

Postulate 1 is the speed of light c (= 300000 km)

as co (infinite) with all mathematical privileges this greatest

Size. Now astronomy expects countless light years. But c

is only an infinitesimal fraction of a single light year, then

equating this tiny Wegleins with oo a Ättentat all

Reason.

This wanton use Einstein establishing Postulate 2

"Constancy of the speed of light% which states: w = c =

300,000 km = c 4-n, ie: In C omparison at any other GE

speed is c (for c = co = co -J n = c) constant, and

not as an approximation (in a practical sense), but in

strict theory.

On such unfairly can now possibly also the relativity

achieved the time and the transferred sphere of activity including those of space

give. For if the same light beam omparison in V to different

systems moving the same speed (c = c - c = m - - n) have

shall, so shall this miracle emstemisch by a renewed wonder

namely by "declares 1 that the time and space units

different moving observer unequal (soon bigger soon smaller)

are.

This RTH is the sick product of a sick time. S

See. D. V. "Einstein's fundamental error". Hillmann, Leipzig 1930's.

3 *

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Dr. VINCENZ Nachreiner / NEUSTADT ad Haardt

AGAINST THE EINSTEIN THEORY OF RELATIVITY LINGERIE

Philosophy: The "Spacetime thing" of the RTH contradicts the un-

the unsettled.In Kant Schopenhauer chen theory of space, time and

Matter.

Analytical Mechanics: When changing the law of gravity

you can not do the masses themselves for spherical heavenly bodies as

the center focuses bring in invoice.

Dr. K. 0. Petraschek / MUNICH

Special relativity AS SOLUTION

AN APPARENT PROBLEM

1. The Einstein of his special RTH underlying principle

the absolute constancy of the speed of light, which in the conditions

tion is that the light for the observer always with the same

Speed propagates, whether these incoming before

Beam flees or is approaching the same (p 2) 1), namely closes

, A contradiction in formal logic Sion not (p 53), as the

Assuming a presupposed objective, ie excluding conscious in

located ereignende speed corporeal world sänderung need to not

subjectively showing in the consciousness of the observer as such,

contains no thought impossible, but probably in the material-logical or

actually epistemological sense. This is to be understood that way. The

Principle of the constancy of the speed of light is equal to the to him

constituting special RTH a physical theory and take as

Such primary real things and events in the outside world (p.54). The

therefore theory stands on the ground of critical realism, after which it

one from individual consciousness independent, temporal-spatial corporeal world

gint (o. oi, A). boll now this spatio-temporal nature of the pre-

exposed real not lose any explanatory value W ince, so must

the objective forms of existence of space and time as the sub-

jective perception of the same category according

accepted (p.52). The opposite assumption would the pro-

klamierung of contradiction as a means of knowledge and equal

thus the utter bankruptcy of all real ,, di beyond mere games -

innovative viewing logical possibilities and the own consciousness

miieiLs addition ranging knowledge mean (S. 54). Since di © sawn

assertion of the Un variability of the speed of light and with

i special RTH actually makes those contrary assumption,

w those like this from realistic level of knowledge as a point

m to consider ^ contradictory doctrine, therefore, a confirmation

iT-ii 1 Y * '' The basic contradiction in the special RTH and its consequences. "4

mllmann, Leipzig 1922. r

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supply - and of course also a refutation - by experience

is certainly incapable as the experimenter no standpoint outside

take his consciousness can, which allowed him that in

Mirror his sensuality beheld proportions with them

corresponding real size ratios to a common

compare scale (p.53).

2. The (logical or psychological) epistemological idealism

can the decision on the material-logical sense contradictory

demanding nature of the principle of the constancy of the speed of light

just off speed and the foot ends mainly on him special RPH

soft, not he can answered the question (affirmative or negative)

answer; On the other hand he must answer its neither physics

left (S. 51, A). But since even demanded an answer

must be so is particularly evident on the example of E into teins chen

Relativity particularly clearly the need of a

idealistic fortznschreiten a realistic knowledge standpoint

chek (cf.. Petras, "The logic of the unconscious"% Munich 1926, Vol. II,

S. 542, text and notes).

3. The principle of the constancy of the speed of light like, the

for special RTH due to the acceptance of these contradictory

Basic assumption, however, become necessary relativization spatial

and time intervals - and thus also the simultaneity - (69)

can not as a space the perspective shifts

analogous phenomenon or as a the (no matter whether subjective or objective

tive) forms of intuition of space and time itself poignant

be understandable operation (p. 48, 73 f.). With the mentioned

Relativism has modern relativity sprinzip which only the

Equality of all against each geradlinig- uniformly moving

means systems for the formulation of the general laws of nature

(20), in and of itself has nothing to do (29).

4. Since the principle of absolute constancy of light speed

as the principle of independence with respect to the observer

to-understand light speed of a possible movement of

Light source in relation to this same observer be formulated

may, at the reasoning followed by Michelson and Morley interference experiment

but, on the negative result, the special RTH to confirm

the accuracy of her underlying principle of the constancy of

to invoke the speed of light maintains, a movement of the observer

does not come with respect to the light source in question, so this V forms beseech

no possible basis for deciding the question of the distance

dependence of light speed of the movement of the light

source (19) and therefore also no possible confirmation or contradiction

Interpretation of special RTH.

5. from the contradictory precondition of the

derived s chlech thinnigen U nveränderlichkeit the speed of light

Equations for the coordinate transformation to today straight-

linig uniformly moving systems, despite their external over-

accordance with the from the viewpoint of Lorentz contraction

tion hypothesis derived transformation equations wrong because the

Expression of contradictory facts; the contradiction

they cover only without being able to eliminate it, enters into its full

Strength only in the extended meaning apparent to them Einstein

by the misguided use of the modern principle of relativity

granted not only to the discharge, but also on the result

(P.35, 39).

6, shares with the Lorentz transformations in the interpretation of Einstein

the list drawn up by this addition theorem of velocities that

contradictory nature. The opposition also occurs here in

a form on which the special RTH either to the admission

its inability to the actual speed of movement to

determine or drove repealing its own basis

must (p 61, 63).

7. As a consequence of the principle of the constancy of the speed of light

the assertion of the impossibility of the Ausbreitun gs gesch win-

off speed of light over rising movement speed as well

zulehnen as understood in the relativistic sense basic formula for

the dependence of the mass of a moving body from the velocity

its movement; the question of the justification of the adoption of a

such a function and an impassable Grenzgeschwindig-

ability that relies on the observation of facts, is characterized

not affected (66).

8 * The assertion that all simultaneity case only relative

was, says the actual content of such statements inputs

According steins and other relativists just that by using

Light signals to determine the simultaneity of two events this

Simultaneity long as not to be taken in an absolute sense,

as one the basis of the ether theory of light, the movement

the signal receiver (and the two event locations) against the hypothetical

matic light ether and thus the exact value of the speed of

mutual light signals does not know in relation to the signal receiver.

Here, then, is contrary to the special RTH with the possibility

expected ability of different light speeds (p.68 f.), and therefore

a "relativity of simultaneity * 6 and thus the time measurements ever

provided which is suitable for introduction to the understanding of the

special RTH actually meant relativity of time (and local}

Distances as entirely unsuitable proving (p.69 f.).

9. The special RTH strives for the solution of a problem bill.

Therefore, they must match the Dürchschauung the note the fate of

Share Problemes to be set aside (p.76).

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Dr. WALTHER RAUSCH BERGER / FRANKFURT

ANTI- A STONE

1. In Michels onschen attempt is not a fundamental problem.

He explained in the simplest manner in that the light beams

carried by the earth, which is the case beyond all doubt. The

Light rays are also carried as electric waves of

wireless telegraphy. Here no one is surprised that the electrical

Waves in the direction of Earth's motion run as fast as after

opposite direction.

2. The Grundsinnlosigkeit the special RTH is the assumption

that one and the same light beam towards any moving

ten bodies have the same velocity is !!!

This is absolutely impossible - it is a completely insane

Thought.

It is only natural that from this idea when it

further from loving, more absurdities arise, the list in

individual is not necessary. Mention is only to illustrate

the following. A W id ersinnigkeit is that the time stand still or even

run in the past, that body to two-dimensional beings

be, if you look at saturated with light chwindigkeit or Überlichtgeschwin-

speed move. This absurdity is not canceled by

so no one can move with the speed of light, or that the

Superluminal is "prohibited" by the relativity vis th. The

Direction of time forward is a priori certain. It is most certain

Fact that there is. It is set with the event itself. Everywhere N

where movement takes place, there is a passage of time, even if

it moves a body with speed of light thinking. Two-

dimensional beings there is not, in reality, however, is

it is very possible that there is a faster moving than the light,

z. B. gravity. Equally absurd is the assumption that

Space and time expand or contract. body can

to expand or contract in time and space, not time

and the room itself. The peak of wit but is one for the RTH

wanting to find confirmation in the experience.

3. The measurement of a body by an observer with the

Body is fixedly connected, opposite him rests, has under all circumstances

stands the character of accuracy, since the result of the financial

view sinns j eder time tactile sense confirmed by other purposes, eg. B.,

or can be fixed. Any other coming from a moving

System is in contrast sub shifted j ective, provided them to others

Scores passes. Our conception, the way how we

see things that may be affected by the light, never

Things themselves.

4. Completely absurd is the assumption that the simultaneity is relative.

Each time is identical with itself. Now although there is no

Times in the reality, but only temporally extended pre-

gears. But it can be a process of reality, z. B. the flash

a light, as a unit Asst on gef, and it can all the operations of

Reality is related mathematically to the said process.

This is just not possible when there is faster V orgänge

as the light movement. For this reason is the fastest process

the basis of the time measurement. So far only the light has a

Importance for the time. If a faster movement, as in

gravity can be detected in the future, so this would be the time

Liche scale for all processes in the universe.

5. Much more enigmatic than the content of RTH is the fact that they

became widespread. Common sense and logic seem

to be too simple and obvious, as they people on

the duration could satisfy. Rather have here apparently of

Time to time setbacks and disasters (as wars in the culture -

* History of mankind) occur, so that the reason anew

collect and their light of humanity may again be visible.

The recognition of RTH is one of the strangest aberrations

the human mind remain memorable.

See. D. V. "The Absolute in motion", archive f, system. Philos., Vol. 29,

Issue 3/4; "For RTH", Leipsic. Tagebl. 1922; "For RTH" Frankf. Univ.-Zeitung,

31. 12. 1921st

Dr. ARVID REUTER DAHL / ST. PAUL, Minn., USA

THE Einsteinism /

ITS FINALS RENDERED AND ILLUSIONS

(Translated by Dr. E. Rnckhaber)

The Classical Relativity is correct, but the Emsteinismus is

not correct. The term "relativity 64 may therefore not with the inputs

steinismus be associated. The modern twist the true Relations

tivity must be labeled as, Emsteimsmus 6 so healthy science

Community men and healthy science which with facts

do not work with mathematical fictions against false suspicion

to be protected.

His chief fallacies.

1. The fallacy of the absolute speed of light.

Einstein's postulate that the speed of light is absolute,

entirely false. The postulate of an Absolute as a counterpart to the

Relativities relativity destroyed as a true universal principle.

Einstein's first work (1905) is mathematically wrong, because he made his

Light source a spherical wavefront instead of ellipsoidal off

passes.

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Everything moves, including light, has in relation to

the observer relative and not an absolute speed.

If the light is excluded from this law, so is the

universality of a law to a W ortmißbrauch. The fact-

things contradict the postulate of Einstein.

2. The fallacy of the Fitzgerald-Lorentz V he kür zun g.

The Fitzgerald-Lorentz contraction hypothesis see is a purely mathematical

matic fiction which involve known and observable by any fact

is supported. It was invented to the alleged negative ER-

result of explaining myself on ice -Morley s chen Interferometerversuchs.

When the time for both paths in the interferometer is the same, then the

Reason for this result, the effect of external actuators F in Baume and

not an alleged shrinkage of Interferometerarmes. If

find a real shrinkage instead, they may, in accordance with true

Wis s enschaft be measured. This alleged shrinkage is now

has never been measured. It is therefore a pure fiction.

If during the period of the two paths is a difference, then the

relative movement between the earth and the ether a fact.

In both cases, shrink Einstein's postulate of absolute light

speed along to nothing.

* * _

3. The fallacy of Aqui Valenzprinzips.

The Einsteinism asserts the equivalence of acceleration

and gravity. In other places W: He teaches that an effect

(Acceleration) is equivalent to their cause (gravity) is. These

Thesis is a plump absurdity.

4. The fallacy of the "space-time".

The Einsteinism thinks that the real space-time only one

and that both space and time artificial products of the mind

are. This is a fallacy. The truth is that although space and

There are always connected irkungs far in this phenomenal W, nothing-

the less the space of time so fundamentally different,

that any unit can be set up. On the contrary, a dualism

between the two is the correct understanding of physical effects

essential. The space is reversible. The time is not reversible. Of the

Space is static. The time is dynamic. Both put together the

Done is that both position and change of position

includes.

Time can not, neither by the Einsteinismu s still by

any other kind of alchemy, in actual space as its

a coordinate are transformed. The fictitious mathematical concept,

the known as the "root of minus 1" is too weak to make a

Reality to transform it into a different reality.

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5. The Trugs ehiiiß it d curved space.

Matter can affizieren only other matter. You can no change

ments bring to principles and laws. Space and time are

No matter, therefore the existence of matter in space-time can not

change the nature of space and time. Space is not a material

Thing which may enter as the walls of a box slightly. He is

not curved because a curvature only material present in space

can send existing objects. F therefore follows the room is not

limited and enveloping. The room is a basic fact -

urgründlich as a principle, because its possible applications un-

are limited.

6. The creation of space and time by the observer -

A fallacy.

The Emsteinismus teaches that man by measuring rods and

Watch space and time can do. This is pure sophistry. What GE

is measured, is in place before the end of measurement is displayed. space and time

not come through the act of measuring the world. On the contrary, the

Measure is a quantitative assessment of the amount of reality. There

<Space and time are fundamental realities, all normal

Heads draw the same conclusions about their nature.

7. Mathematical calculations determine the nature of

Space and time - - A fallacy.

Despite claims of Einsteinism teaches practical,

that the nature of space and time by mathematical speculators

tion is determined. The fallacy lies in the fact becomes immediately

on. The real task of mathematics is the exact and concise

Representation of phenomena. The mathematics can but achieved nothing

create - not even four or II-dimensional spaces.

8. The views of molluskischen reference system

the Einheftsfel del - concoctions of imagination without

Contact with reality.

Einstein Gaußische Bezugsmolluske is, like the beast, to

whom it is named, mainly from a bowl. Within the shell

is nothing but the vain hope that the apparatus function

becomes. Since the mollusk is not in contact with reality, they can

not even itself out of the swamp of inconsistencies, which they

gave birth, uplifting.

The same criticism applies to Einstein's newest product speculation - ■

the unit field in his essay "On the unified field theory ^

(1929) is set out. When generalizing principle generalized,

to each track a reality continues is swept, and swirls a mathematical

Dust, which makes the one tein- dupes completely blind.

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9. Alleged evidence through observation - either value-

Go or entirely without closing force.

a) deflection of light.

The photographs were selected so that they Einstein's hypothesis

should confirm. DieJ enigen elected, not confirmed

1 percent, a difference in healthy and honest scientific

nal Safety is not allowed. In addition, Einstein does not contemplate the

gaseous atmosphere of the sun caused refraction into account.

b) rotation of the plane of the planet Mercury.

Einstein was forced to amputation of his theory to

to reveal Newton's formula in a magical kind Gerbers,

he, without mentioning it, used to make its calculations.

Therefore, the movement of Merkureb ene proves the correctness of Gerbers

Newtoniseher calculation, but not the accuracy of Einsteinism.

c) displacement of SpektraUinien.

The observations on the shift of the line after the red

out are without S chlußkr aft. The careful work of Bums, Curtis,

Meggers and other smooth contradict the claims Einstein. The

Observation may confirm another theory than DieJ piece Einstein

and so their Pruch Ans, the only to be relative to the spectral lines,

refute. This also applies to the Shapley effect.

10. The Einsteinism - A speculative network compared

mutual contradictions.

Since the Emsteinismus from fictitious and incoherent basem

is spun, the whole system is full of mutual contradictions.

In 1911 Einstein's theory led a light deflection equal

0.83 B from ogensekunden. 1916 was Einstein the deflection equal

1.7 arcseconds. The latter is approximately twice that of the former. On-

stone are no excuses or explanations for these glaring

W idersprüche. This will keep them in his work as permanent monuments

the colossal scientific coup of all time.

In 1919, Einstein announced boldly that there is no ether.

In his address in Leiden but (May 5, 1920) he changed his mind

and tried in the place of a real medium, a Mathematical

to put continuum. Meanwhile light waves can not X * s and

Y's are made.

In 8 a particular theory Einstein asserted that the light-

speed is the same in all directions in space, regardless

on the speed of the light source and that of the observer.

However, in his General Theory he rejects this alleged

Act and boldly asserts that in a gravity field such as that

the sun does not apply. Laws that contradict each other, the core are

and the essence of Einstein's ridiculous construction.

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1L The aesthetic claims and allegations faetr.

Singleness - False.

In science can only what is true, right to perfecting

raise safety. The Einsteinism therefore, because it is wrong, not nice.

All problems Einstein can without resorting to its fantastic

mathematical speculations are solved. Therefore its argument falls

that his theories are true because they are the only alleged, the

Water.

The deceptions of Einstein Eini smus.

1. Bombastic advertising.

As the Einsteinism as a flood wave flooded the world,

called © I Einstein because of his bombastic publicity närri-

rule invasions as the Bamum science. Since these unscientific

Liche advertising has not diminished, the accusation is still

rightly.

2. A mere mathematical speculation.

His entire structure rests not on facts but on mathematical

rule speculation which of the plays on words and sophistries

unbridled Scho loads still on offer.

3. The Nobel Prize.

Einstein received the Nobel Prize respect due to his law

the photo-electric effect. This law was previously established by research

proved mixtures the American physicist RA Milli kan be false

been (s. whose work "The electron 64, p 230, edition 1917).

Dt. OE Westin in Sweden brought this deception to light.

By Einstein's unjustified Wortrag on the subject "Relations

tivity 44, which violated the provisions of the Nobel Prize "Directorate,

the world has been led to believe, the Nobel Prize-Directorate

had consented to Einsteinism as a healthy and experimental

given tally proven theory. presented The Nobel Directorate

but in his Preiszuerkennung explicitly that this is not the

Case.

The Directorate requires each recipient of a Nobel Prize

a lecture on the subject, on the basis of which the reward

is meilt, within a specified time. In Finn "case was the

: Not reia for relativity but for his deceptive law bezgl-

the photo- electric effect issued.

4. Einstein's priority?

a) Minkowski and Einstein adopted, but distorted the original

Behe idea of Melchior Palägyi, the great Hungarian philosopher,

concerning the time as a dimension associated with the space,

r alagyi also introduced the term "root of minus one" with respect "nt

the time. Pafägyis work was published in 1,901th On-

steins first work is dated 1905. Minkowski's first signature

appeared 1907th

Palägyi not taught the unity of space and time, yet

said he ever, that the length of the measuring rod of the time of its observations

esteem depended.

b) Einstein's formula of 1911 is for the deflection of light in

Cores same as DieJ piece of Johann Georg von Soldner from years

1801. Sold agent formula based on the newtoni see celestial mechanics

Laplace * Contrary to what Dr. Robert Trumpier

I have shown that the pay agent using the size 2 g instead of g

is to re chtfertigen.

c) Paul Gerber's formula from 1898 was by Einstein in

1916 used to the amount of rotation of the plane of the plan-

Neten Mercury to determine.

d) authors of this document drafted in 1902

the idea of a unit field which old embraced all kinds of Kr,

namely in a lecture which is "The atom electrochemistry 5 **"

called and held in the American Electrochemical Society

has been. In 1913, I coined the hyphenated term "space-time%

who received 1915 copyright, and although occasionally my presentation (GE

keep the Kansas State Agricultural College and the University of Kansas)

and titled "The Space -Time potential, a new conception of the

Gravity and electricity 44th Einstein is Molluskenbezugssystem

built according to the plan of my potential zone system, only with

the i key differences that my reference zone due to Tat

up jewelry and other on real physical findings

was turned while Einstein mollusk a mere mythical construction

is who has no contact with reality.

My space-time Kinematrix from 1923 includes all types of

Effect of gravity, the electrical, thermal, mechanical

etc. Again, this was used in the definitive findings. On-

steins unit field of 1929 - a piece of pure mathematical fiction -

has no real ability to application, namely because

not on facts but on mathematical speculations, which

subject fallacious assumptions, is founded.

Dr. GUSTAV RICHTER / BOZEN

THE relativization of spatiotemporal

MASSTABES CAN ONLY BY MEANS OF AN ABSOLUTE

MASSTABES BE ESTABLISHED

The RTH Einstein like the role in science always

play, for philosophy is either a banality or nonsense. **

It is banal when which with regard to the various judgments,

various observations on the temporal order or the time

Duration of certain events make to the dim view

provides and maintains that each observation is relative, d, h. of the

Circumstances is dependent and therefore no absolute safety

could claim unit that his judgment is absolutely true.

This is clear from the relativity of all motions.

A nonsense but it is to say that we of this relativity

up different viewing opportunities just as the Absolute

have engagement, while our need is the W ider speaking

educate and produce a unified, logically correct worldview

or at least the possibility of such a unification to

believe should throw as obsolete in the lumber room.

The relativist judges if he is honest, as follows: I, too,

strive for unity of world view, but I see this unit in the

Unit of the natural law that is in the functioning of this uncomplaining

found mathematical formulas or in that the mathematically

established equations to go completely.

And when they in fact not completely absorbed, but everywhere

Rest, even if only a little left over, so I'm ready, the unit

Natural Law aufzuopfem the unity of space and time dimension,

d, h. These deviations represented by the various spatial and

temporal positions or with the movement of the observer changing

to make spatial and temporal extent responsible.

This is not illogical in itself. Nonsensical is just the fact

derived conclusion that the different spatial and temporal dimensions not

have relative but absolute character, ie, the space and the time

measure absolutely right.

Because either it can be stated erschiedenheit or not this V.

Let them do not realize, then would the theory makes no sense. lets

but test questions, then you need about the relative spatial and

Tempi nor an absolute space and time scale presuppose with

the hike you can notice this difference.

And this measure is for the RTH just the natural law, the formula *

From the deviation of the location and the timing of the event of

this formula can be according to the homemade adopting the exact

Changing the spatial and temporal dimension with respect to the absolute space

and time dimensions are calculated.

So like also the spatial and temporal relationships ever

Change the location and (speed, so we can but the changes

establish ments and therefore expect a measure that and place

^ Rate is independent. And construct with the help of this measure

absohiten space and an absolute time, as we our working

w. 8 uac * ® meI unified world order can not do violence.

End thought * ZUgä> t 'has not the relativistic idea

Dr. ERICH Ruckh BUT / BERLIN

THE TOTAL OF RELATIVITY illogicality STHEORIE

That each measurement is relative, has not discovered until Einstein. On-

but stone confuse subjective and objective relativity. The

Metermaß is a relation to the circumference of the earth. Self-evident conditions

requisite for its general use, it is now that all men it

from the same distance, the same distances from the measured

Body, but not the one from this, the other from that distance

use. Is a measurement approach carrying the metering rod to the

Body, so from a distance zero, not possible, it must indirectly

happen; corrects the mathematical consideration of the distance

then the measurement and brings them into line with the alone

valid obj ective-relative measurement of the distance to zero.

For the time measurements applies exactly the same as for room measurements.

Einstein but affords the joke that he made time measurements comparison

different distances gives the same obj ective validity,

subjective viewpoints objectified and thus also that of the human

union observation completely independent transsubjective world events

even relativized. Not enough that one for him and the same event

at the same time can have two times, man is generally a

powerful beings to a little god, because he can make things,

their sizes and times, change their severity so desired by nothing

continue to do has to be laid as its position.

The fundamental error of Einstein, as well as one of its advantages

predecessor Mach, Petzoldt, among others, is a purely logical and is very

regardless of any epistemology or metaphysics. All

scientific progress consists precisely by uncovering

the subjective relativity to obj ective relativity to arrive, and the

Great Act of Copernicus is just for the most phenomenal as for

the idealists as the realists, for the skeptics as for the Dogme

cians; as applies to all have the same logic, the identity of the terms, the

unequivocal adherence made R EQUIREMENTS. It is for the logic

no matter which one time dimension we choose if we the moon, the earth or the

use sun, a sand or Federuhr for: Only that is what matters,

that once agreement reached is clearly respected.

Einstein does not notice that he simply takes the logic underfoot. Out

Injury principle of identity, the levying of ambiguity

the principle, follow necessarily violations of other laws of thought.

According to Einstein, the statements "The stone falls just 6 * and" The

Stone falls crooked 64 objectively equally, ie the same stone can

for him at the same time betw r ei quite different paths, two different

occupy spaces. Einstein contradicts himself when he one of

Stones, since that one is precisely that denied him transsub j ective

would be a third party. Einstein does not ask why the cornerstone of the

a position just for the other crooked falls, a question whose

Answering the subjective relativity raises and an objective

results »Einstein so despised as the principle of contradiction

as the reason.

A heavier purely logical error, it is also, from the curved

speak space as "curvature 4 * a motorized term and

* Every move, including any curvature already presupposes the room.

Mur confusion patient mathematical formulas with the

, Understand reality, the little cares about them let as Einstein

the length of a body from the time in which it moves forward,

can be addictive. is the reduction of time to flush the

the same as if you wanted to reduce the movement of the rest. Also

here there is a serious equivocation. One may well statics ah

Special case of dynamics explain, but not the dynamic that Urfaktum,

reduce the static, and it is the height of absurdity to say,

the room had swallowed up the airwaves and the time.

The Michels on-Y beseech can never rise to a relativism

the time, since numerous dynamic factors, the apparent

to explain anomaly capable also the calculations inputs

steins, as Dr. Israel proved just after Einstein's own V oraus-

tions (Nichtmitführung the light beam) are incorrect.

The Y beseech Einstein, the contradiction between him reproached

the special and the general RTH, after the latter of the light

but can be influenced to eliminate ^ is totally failed, because of the

this comparison made with electrostatics and "dynamics

just the opposite of Einstein's conclusion follows, namely the prin-

zipielle suggestibility of the light beam. Here is a very special -

Barer deficiency of logic.

Einstein's "conclusion" that there is no greater speed than DI®

may be the speed of light, is not an end, but an arbitrary

nothing justified assumption. Even though in the expression

the value of the Wurzei is less than 1, it is nevertheless

not imaginary. In an essay in the "Annals of philosophy".

Vol. 10 (1930), unit 8/10, I have come to prove that the

negative numbers always represent real values, it follows of itself,

that there is no imaginary numbers. The expression under the root

therefore corresponds to a real, no matter what value, in any case described

He suggested "size below zero". Block "conclusion" therefore is firstly transferred

no conclusion secondly would be if it were a real circuit,

the condition on which it is based, incorrectly.

The theory of relativity is a mathematical masquerade behind the

an almost inextricable tangle of Begriffsvertauschungen, resistance

languages, history fallacies arbitrary assumptions and Mißachtungen

sunder logic hides. The world becomes a of infinitely many possible

union coordinate systems made composite bundle, m

which each dynamics and causality so but any actual

Physics disappears. This relativity is a world of blown egg.

Your record reaches the theory of relativity and reverse

bility of the terms Y and N orher aehher, cause and "effect, and

Similar Movies Kid, who is good at least that they also

one who does not hindurch- throughout this GeDaNkEnChAoS

can find, open your eyes.

What's to fight even more than this nonsensical theory itself,

that is the audacity of a part of the press, of all imaginable

are trouble, such an unprecedented feat of illogic as the

to trumpet belief of the future and concealment,

that the opposition far larger than the serious trailer

Community who mislead 0 public.

See. D. V. "The RTH refuted by the W iderspruchsprinzip and the natural

Explanation of Michelson V ersuchs 44 (HiJlmann, Leipzig) and the satire "Relativia, the

Roman a Prophet 44 (Dr. W. Kuntz, Berlin »Spandau).

Professor Dr. STREHL / HOF

RELATIVITY THE THEORY OF RELATIVITY

The theory of Einstein for me is a functional transformation of

W irklichkeit. His reference system: Variable space and time m ate -

rod, invariable speed of light (despite varying crushing

value) is not my taste.

.. See d V. ,, W elle optics * 4 (including literature; Central Time f optics, 1926-27...).

Dr. KARL VOGT Lord / KARLSRUHE

REFUTATION THE THEORY OF RELATIVITY

The RTH may be rebutted if it is possible, one of its funda-

prove laying preconditions to be incorrect. As such, want

we the assertion Einstein single out that one about to be measured

Simultaneity (Glz.) Of events at different locations "a

can make fixing discretion 46 J ~) or as H. Reichen-

bach expresses that this Glz. (Within the quickest of the ef-

kung transfer left open period) "no object of

Knowledge but a discretionary decision is 462). - We ask

us first what we know wi th safety of space and time,

before we measure? Any person must, as long as he erstände in healthy V

is to admit that a straight line that is of an unchanged direction

can not be closed to returning in line, just that

not more divergent line through the same two

x) The Special and General RTH »5th Edition, p. 15

2) philosophy of spacetime teaching, S. 150, 1928th

4 Einstein

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can go points. (If check in the "higher" geometry differently

should behave, so this is characterized for the untainted vivid

Think thoroughly unpalatable to a meaningful empty play on words,

where nothing graspable underlies.) These axioms are apodictically a priori certain and any correction by future refined observation esteem and measure from the outset deprived. invariable general comprehensive and strict necessity, ie Ü nmÖ possibility a compared introduce part behavior are their hallmark. From these records Art now can be derived all the geometry, so we need to only three actually geometric axioms: 1. Two given points described are entirely one and only one direction and one and only one Route 1). 2. segments and angles comes to steady size. 3. It are at any given distance and at any given angle a congruent path and a congruent angle in any position. All other required axioms are a priori certain sets of general nerer importance. - This condition can be the way also un- indirectly plausible set prove that at any given three- eck a congruent must be in any position 2). That furthermore the

W inkelsumme in the triangle can not be greater than two right angles, can

how long known, from the set of single line through two

Points, ie derived from Axiom. 1 But that the angle sum not

less than two may be rights concerns in the following way: The

Just as we define the line of unchanged, identisch-

same direction. Sections have the same straight line so identisch-

same direction to each other. From this definition, it follows that two

Straight or any sections thereof in only one direction

relationship can relate to each other, as well as z. B. an object

of consistently the same color with another just such only in a

Color relationship (as regards the nature and degree of the color difference)

can stand. Two line, which intersect, have different directions

direction and a directional difference, which the pointed formed W in-

cles corresponds. If now a half line a, the point B of a

wagrecht featured straight c goes out and one to the right and above

open acute angle with these forms, rotated so to c that

this angle is always acute and smaller than even the smallest GE

can be added angle, so the theorem that the direction of a

the direction of c approaches without end. If in the same way a

Half beam b, which go from the point A of the straight line c to the left of B from

let and with c a left and up open acute angle

s) It is also well counteract the direction AB of the direction BA as this

distinguished set, but which presupposes the movement idea, so do not

is intended strictly geometrical. However, would even in this view of the following

ile-setting can be carried out and only the presentation will be somewhat changed

have to.

ä) The proof can result from the nature of the line or the direction and

seeking to demonstrate elsewhere,

forms, and counter c, so that this Winkei more and more from "

accepts, then the proposition is true, that the direction of b, the direction of c approaches without end. All this remains unchanged in force when AB the fulcrums comparison about these rotations, the distance is enlarged, as this does not change the direction relations. From both follows sets that in such motion, right at the continuity such layers, the direction of a and b of the same direction approach without end, which directly from the contemplation of the figure evident to. In other words, the direction of equality (same identisch-Direction) is the limit of the direction of a and of b without approaching end. Now, if the linear extensions of a and b also from this intersection € intersect somewhere, so must un-indirectly abutting sections are the same, they must also approaching identical -Same direction without end, so can not a constant angle and direction difference of z. B. 90 °, ie, the maximum possible directional diversity, have unchanged

since two straight lines can only be in one direction and relationship

since the direction of the adjacent sections C is identical to the

Direction of the A and B adjacent sections. This is the "two-

fold asymptotic triangle "of hyperbolic geometry and thus

thereof, provided that the sum of angles less than two triangle

may be rights, as demonstrated impossible 1}. Thus applies solely

Euclidean geometry, which all sets a priori true and

apodictically are certain.

In the field of mathematical time, we find the following

immediately certain insights: 1. Time is a one-dimensional con-

continuum. 2. The time runs emsinnig, ie there is only one transition

from earlier to later, but not vice versa. 3. Disconnect the timings

J) The logical (or relations theoretical) framework of this evidence is by its

specific content independently. Let them set z. B. take directions routes, numbers, colors

or sounds in the same relationship of equality - to diversity and

steady Näheras stand, and can be reached in the same way to a form after

same result. Those answers also show that the movement, so the idea of time,

is not essential for our proof, because even numbers z. B. can not be in the

move time. The movement serves us only for simpler and shorter expression

in place of the sequence of directions b J9%!% * .. etc., between which a continuous over-

gang is. - The alleged proof of unprovability the fifth postulate of

Euclid an d the contradiction! E STRENGTH of non-Euclidean geometries has been

usual basic concepts and principles prerequisite to (being the way, what

the "spherical space" refers to the set of single line through two points

ignored by tacit agreement). He omitted when another

Basic concept of the (pure, sensuous) intuition immediately takes, the,

although everyone is familiar with, not used in the school geometry, namely the

the direction. Also lose the proof of the Widerspruchslosigkcit not -euklidi-

rule geometries by recycling the same to the contradiction of

Arithmetic course any validity, if the former in the lighting of a concept

provides that as direction no size term. The non-Euclidean geometry is

Thus geometry after the elimination of sense perception, a kind of incomplete

settled or mutilated geometry.

4 *

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Zeitstreckeil from what mathematical Large belongs. 4. The time

(Like the room) limitless. 5. There is a clear and general-

valid Glz. at different places. - The latter can be in the following

explain nature: let us suppose the one leg of a rectilinear

Angle rotated against the other, then meet when both

coincide, the two equidistant projecting from the apex points

the two arms simultaneously. Likewise, if two equal

Angle in the way are moved towards each other, that two of the legs

always coincide and extend the other two parallel,

meet two of the apexes equidistant projecting

Points of the parallel legs at the same time, and the same is true of

the endpoints of two equally long distances that compared to a straight line

are moved together (see p. 58 above, Reference 7, p 617). This mathematical

tables Glz. is "absolutely", ie clearly a priori evident and of infinite

Licher emphasis of his accuracy. It can not be "redefined" and

replace arbitrarily by another without having with geometric

Truths falls into deadly conflict. Of importance is further that

from these simple concurrency records that way easily in a

single axiom can be summarized, the so-called. Set the parallelism

hologram of speeds (the addition theorem of the "classic"

Physics) can be proved that they therefore in addition to the rates of geometry

the foundation of the whole (pure) kinematics sufficient which

Thus likewise, as well as the pure and Kaum- time teaching, a science

is a priori Community of apodictic nature.

Now it is for the physicist but about the place and

Shape of real objects and time of real events

be determined by measurement and it raises the question, which guarantee

is that the meters used by him, the compasses, scales,

measure rulers, beams and honor "right", ie that they actually

Lich rigid or straight are delimit or equal stretches of time? This

of course can not be itself again by measurements of ordinary

Licher kind identify, but nor presuppose readily. is

Under these circumstances an arbitrariness definition of measuring instruments

even possible ? Now, as far as the room first, then

"Measure correctly" here have no other meaning than that as a measuring

instruments used physical lines and physical lines departures

clearly the coincidences in the communications with them from constructions

and overlays the demanded by the geometry of straight lines and

derten coincidences correspond in every particular case. Because there is only one

a priori certain geometry and physics and physical

Measurement Hegt based on the geometric representation of space and

must underlie them, they therefore can not contradictory s.

In short: more apart softening physical line can

go nor by the same two points as precisely the pure

Geometry, because they are to be realized and geometric Just now

The same applies to the physical path. Experience has shown that arises

out, so that the defined physical line and stretching at the same time

are excellent in causal relationship, it is the solid body under

{constant conditions of temperature, the train, pressure, etc.)

and the light rays in homogeneous media to which no lateral

Influences act (Very. 9, p 100). However, can be, if you purely

mathematical thinking, make the objection that the so defined rigid

Body and physical lines in their transfer to another

Place called. "Unambiguous steady point transformations 4 4 subject

could, would thus stretch and bend without by this

a change of the observed coincidences ever betray. physicists

but considered-radically, such an assumption of a causeless

Change or we basically forever hidden causes and

Forces a most fantastic hypothesis and mere mathematical

Fiction. And if we such highly improbable assumptions

abiehnen and in their place the to all our other natural

know most put Likely, we do so not 'vviU-

k (Irlich. S o with implies our definition of spatial measuring instru-

mente at best a hypothesis of a very high probability, they

but remains free of any arbitrariness.

Regarding the definition of "clock, there is meant the formal

Possibility the duration of under to following the same procedures

Alike either equal or unequal mathematical

classify stretches of time. If we do the latter, so resulting accelerations

or V erzögerungen of same operations Alike

and we should all back in this F either on the principle of sufficient reason

clearly the period of physical V orgänge waive or imagine,

that these accelerations and V erzögerungen have a reason

in us hidden causes and forces. We proceed by no

reasonably arbitrary, if we consistently to the principle of sufficient reason

hold and on the other hand such hidden, the W in eltablauf

all in the same way everywhere accelerating or retarding

reject influences as fantastic and highly unlikely

what we can do the same pleas as in the

Deformations in space. Thus, the clock can be in arbitrary

free manner defined as a mechanism which by itself, ie

the natural flow, same operations Alike gaps

stringing together by the initial conditions again

itself manufactures.

However, the measurement of the time of events requires not only the

"Clock 44 at the same places, but" clocks 44 at different locations, which

Show the same time, that the synchronism. How can the Glz.

determined by measurement? Assuming that the motion of a body

desolate the propagation of a signal is carried from A to B under well

same conditions as from B to A or from A to € or

C to D {if AB m AC - CD), so she needs in these ways

for the same time and thus determines the Glz. at different places

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(Very. 7, p 4} 1). This we already know before we measure from the chewing

salprinzip and we use this knowledge to measure (j! z. A

Sound signal z, as determined with no wind and all same proportionality

Nissen {the temperature, air pressure, etc.) the Glz. at all equidistant

from the point of sticking points. To examine, although the

causal conditions are the same, on the one-way AB more

Time than on the other AC, the body or training would

breitungsvorgang at one end points (or at one of two same-

A far from projecting points) a greater instantaneous velocity

and thus have a greater kinetic energy than the other, z. B.

here can close an electrical circuit, there is not. Out

same causes could thus arise unequal effects what

after K ausalprinzip is impossible. Since the same conditions on the same

long distances are possible or an infinite approximation to it, so

is the "absolute 64 and unambiguous Glz. possible at various locations

Lich or an infinite approximation to the same, in fact even before

We measure and irrespective of the type of measurement. The physical Glz.

So just like the pure mathematical Glz. necessary clearly,

universal and determined by the thing itself, and therefore not

arbitrarily be fixed and not "umdefinierbar 44 2).

It must, however, for practical reasons of measurement accuracy

Glz. be determined by light (or electrical) signals. We make

Now that it is a system acceptance in every place (a room)

and only one (it is moved relative to the position occupied

or stationary), based on which the vacuum and, after elimination

all of the matter about outgoing influences the light at all

Because same reproductive conditions, and consequently the same GE

rate has, and call it a resting imÄther System 3). Further

we assume that a contraction of the rigid body in its notification

movement through the ether no one rode. From two assumptions and the

negative results of Michels on -Versuchs well as in the previous corresponding

Wrapped spacetime axioms and principles of space -zeitlichen metric

(Especially the theory of the Michels on-V ersuchs needed, following the above

1) This Glz. is determined by a signal from an infinitely high speed

Glz. logically equivalent.

B) This objective unique Glz. Even if they are not measured by events and

could be determined (with probability), refuted the RTH, at least

provided that it maintains with H. Reichenbach, that the transition of moving slow

PM "by itself and without any human intervention" occurs. This leads namely corresponding

Voice arrangement to that perceptible things or events that in a

System are continuously present or proceed from one to the moving system

of view, no longer exist or never occur (see FIG. 3, 6, S. 52, 8, 16).

3) The adoption of the ether as the homogeneous medium of light waves can

au * induction appointed, namely generalization of the observations of other

^ Eiienhewegungen footing as in solids, liquids and gases to

in soft f all we the medium of wave motion sensual tangible in mind

have and the constancy of the velocity relative to Weil (homogeneous) medium

can observe directly. The induction, however, is not an arbitrary principle.

guided Glz. -Sätzen) It follows that the ether system at the surface

low or completely at rest, at least at the translational movement

Earth takes part 3). The now necessary explanation of Fixstemaberration

I have previously given (Very. 2, 4, 5), it is based on the assumption

that the inertia of the light energy in conversion of light in the ether of

others moving state The total of the original wave theory

demanded change in direction is delayed or cancels 2). These three drives

took no means arbitrary conditions or stipulations

and they are connected with the opposite assumption not in principle

on the same level. Rather, they are real hypotheses, assumptions about

aw ah rscheinliches behavior that in principle, that at sufficiently

tested advanced delicacy of observation by experiment

can be 3). Since the Michels on -V beseech shows that the ether of

Earth's surface rests or its movement relative to the earth far

remains below the observation accuracy, so it is necessary for investigation

k) After the result of the experiment by Michelson and Gale must be other

nehmeEt that the etheric envelope of the Earth does not participate in the daily rotation of the earth. What

with the assumption that the ether is smoothly and only by gravity at the

Earth's surface is read held, is in agreement.

It does not seem impossible, hei improved V ersuchsanordnung after Trouton

yet to further increase Noble observation accuracy and adopted

to the surface (at the equator 463 m / sec) to detect relative motion of the ether,

whereby the RTH would refute the abundance experimentally. We want this

crucial experiment bringing hereby proposed.

2) This assumption also has the approval of a physicist from the Range P. Lenard

found that his hypothesis that a special substance, which he calls "Uräther"

should take the lead of the light in the case of aberration, recently abandoned

seems to have. (See Sitz.-Ber. Heidelb. Ak. D. W., 1929, 8 Ahhandl. 21.)

3) An attempt to detect the ether system is defined in Note 1, page 59, pre-

beaten. - What is the length contraction (within the meaning of Lorentz himself) is concerned,

Also consider these as a result of its affiliated deformation of the earth's surface and Polhöhen-

changing the principle Erdorte observable, if it is present, as Courvoisiers

shown has (Astr. Msg. 226, p 241). However, these tests still need to be

Investigation and we therefore believe the length contraction until further notice as unlikely

likely ahlehnen allowed to. However, it is theoretically interesting to note that even with pre-

handensein a length contraction movement of the ether system and thus the Glz.

could be determined objectively, what is often overlooked. - A but only as

Gedankenexperiment possible determination of the state of motion of the star Äthersy

and thus the objective Glz., regardless of the adoption of a length contraction

can be accomplished in the following way: You connect three rods in the manner of

rectangular system of axes with each other, put in the intersection of the same one

Light source and at the same distance on the rods of six from the light source

Points per a highly sensitive apparatus, the intensity of light radiation

Measure 2u allowed. It is clear that only the same intensity at all six points

may be present when the apparatus is in the ether system rests, and you can iterate

Try find out in which of mutually moving inertial This Instead

place. This thought experiment presupposes no other kinematic set as

the fact that the light moving in a given system, the "ether System", by

all directions is the same, and therefore refutes the claim that it is not only

is technically, but in principle impossible that Glz. to determine without a wel-

kürliche fixing (definition) of the same or any other arbitrary kinematic

Postulate preface (s. H. Reichenbach ibid). - About astronomical measurements,

which allow to consider the third assumption, s. Very. 4 and 5,

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ment of Glz. at the surface by light signals until now none

Correction * carrying the Ethermovement bill. And since our

all conditions partly a priori true statements, partly hypothetical

Assumptions, no arbitrariness can also include in the F olgerungen

be and is thus in the manner indicated, the present for our

Knowledge likely Glz. determined in arbitrary free manner.

But this makes the arbitrary fixing of Glz. superfluous, yes

illicit and the first and foremost requirement of RTH is well

with as their ntp & üov ipsvdog detected.

Or maybe should Einstein discovered by him relative and perhaps

unambiguous Glz. themselves have not understood, nor the

authorized by the interpreters of his teaching? W it ould be inconceivable,

that even Einstein Glz. is not arbitrary but hypothetically

or as a statement about the probable physical and real Glz. at least

can be thought of? From what we have already done from

shows that this is impossible and the discoverer of the relative

Glz. this has judged rightly. Since, as shown, both the

mathematical and physical, of the measurement previous Glz. on-

is clearly and absolutely, they can not possibly ahrscheinlichkeit with W as

are determined relative and ambiguous. Indeed, even if the physical

Glz. in fact, could be fixed only arbitrary, but this does not

true, would Einstein Glz. reject. For imagination

of time and Glz. we possess before their measurement and the

A prerequisite of the measurement, can not be canceled by measuring

and be eliminated and would also at the arbitrary fixing

the Glz. for purposes of measurement imperiously demanding consideration.

Mention should especially not that the RTH with the

true concept of physical movement is incompatible. The movement

an object or the rest of an object (or coordinate

system) is as meaningless as the obj ekti v and considered physically

Up and down, right and left, and is only the sensible comparison

anschaulichung. The true physical concept of motion is the

the distance and position change. Physical as mathematical description

movement is a relationship between two or more articles,

as well as z. B. "Brudersein" a relationship between two or more

Persons (Very. 8, pp 9 et seq. 34 and ff.). The assertion of RTH, a

moving clock'm always slower than an equal crafted dormant,

can not be suppressed from ge and by sheer distance change

is on a par with the assertion that a right-most ear

go always slower than a located on the left. Not even as a wel-

kürliche fixing or consequence of such would be such a welcome as

it indeed has nothing to Physical Object. Even worse

but, when the ears of the RTH "by itself without human inlet

do "so to behave. 1) - - incomprehensible it is when

See SH Reichenbach, axiomatic of Eansteinschen spacetime teaching 1924 * S. 70th

Experiments invents to alleged the consequences of yet

Lich arbitrary Glz. check definition (z. B. the transitional slowdown

the moving clock as "transverse Doppler-effect"). It's nothing

another, as if someone "firmly set" arbitrary, in front of him

stationary vessel be included 15643 Wheat grains and then

it wanted to make recount if it's true. Unfortunately, these

Experiments can not be executed, since they require a measuring accuracy, the

has not yet been achieved.

What strange quirks philosophy of relativity

theorist zeitigt, is also apparent from the following: The time sequence of

same place, although an immediately given, of H. rich -

bach "defined 1" ", namely:" Is E 2 the effect of E 19 is as E 2 later

than £ r This is the topological assignment Definition of timing "

(Philosopher ie the space-time teaching, S. 161). Mapping definitions are

But how Reichenbach emphasizes repeatedly, arbitrary fixed

tions. "They are like all definitions arbitrarily; of their choice

only depends on the system of concepts, which is reacted with progression of ER-

knowledgeable receives' "(ibid, p 23). Accordingly, it would therefore an arbitrary

Determining that the effect is later than the associated cause and

Contrary "principle have the same"! The consequences of this type

of philosophy are truly outrageous. Consider, for. Example, to the

Justice. Can you tolerate that defendants due to a wel-

kürlichen fixing were convicted and sentenced still

become ? Innumerable processes in which verified due to a

Alibis acquittal was made or due to the temporal access

context relevant evidence to convict, would quickly

be revised! Every so convicted could citing the

RTH at least stay of execution request to the question

is scientifically clarified. What the law say learned what says

the Supreme Court on this? An academic question for aspiring relativity

theorists, it would also, as with the opposite fixing a self-

murder is possible. Can a dead man put his mind to kill himself

and bring him to perform?

Regarding the general RTH, as was briefly noted

that it is absolutely unm öglich, a gravitational field as a relative,

"Covariant 46 term aufzufas s s. An unreal gravitational field

aämlich would nonsense, a real but can not be relative because

a relative reality is likewise nonsense 3). Further, the general

RTH already rejected for the reason that, as shown, a non-

Euclidean geometry is a priori impossible, so do not form the physical

3) The same argument must also against the relativity and reciprocity

the physical movement are voigcbracht in hericö mznlichen view.

Bie physical movement, it was considered only kinematic or dynamic, must

ris "invariant", d, independently Jbu up the coordinate system or reference body

be taken as solely for the mutual distance and position change applies

(Very. 8).

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shy can be a reality 1) * It must also be emphasized that the

Newtonian dynamics not the notion of absolute space

in the Newtonian sense presupposes rather of this independent knowledge *

theoretically correct manner can be carried forward, so you

not pushed up to the decision of absolute space or RTH

sees as the latter is usually so placed on the part of the trailer

(Very 8, p. 34) 2).

See. D. V .: 1. "On the cosmic movements of the ether", N aturwissenschaft-

Liche weekly vol 20, p 393, 1921. -. 2. "About questions of the aberration and light -

propagation ", ibid Vol 21, p 20, 1922. -. 3." A new clock paradox *% ibid

Vol. 21, p 497, 1922. - 4. "aberration and the Michelson experiment," astronomer. After-

judge Vol 217, No. 5203, 1922. -.. 5. "Remarks to the light propagation in moving

Ether ", ibid Vol 222, No. 5317, 1924. -.. 6." Where does the RTH ". Critical loading

siderations from physical and epistemological point of view. Hillmann,

Leipzig 1923. - 7. "Reflections on the time and timekeeping" Physika !. Time"

Magazine, year of birth 25, p 609 -. 617, 1924. - 8. "Is gravity relative?". Critical

Reflections on relativism in the latest physics. Macklot, Karlsruhe 1926. -

9. "Relativity and Logic", Annals of Philosophy, Vol. 7, Issue 2 u. 3 1928.

Professor Dr. W. WALTE / HAMBURG

SOME OBJECTIONS

AGAINST EINSTEIN THEORY OF RELATIVITY

1. Einstein's assumption that the vacuum speed of light constant

is, contrary to the hitherto generally accepted principle that when

two speeds a and b on a mass at an angle a

are transmitted simultaneously, this to-be to a resultant

sammensetzen whose magnitude and direction by the diagonal of from

the parallelogram two speeds formed is determined.

When a light beam with the moving around the sun to-earth

collides and is reflected thereby, so stick to the support of

Light, the electron, two speeds, the reflected

Light and the newly added by the motion of the earth. His arrival

acquisition would be correct only if this diagonal is always the same size

debate how the vacuum speed performing component. This

b

but found only in the exceptional case instead if cos (2 R - ■ ix)

2a '

Where

*) What good are all the "Gaussian coordinate" when Gauss himself says: "There is suffering

no doubt that those impossibility fvon triangles whose W inkelsumme 180 0 exceeded

increases) to prove themselves to the strictest leaves "(Works, Vol. 8, pp 186, 174, 190). Thus

can prove the impossibility of general RTH "rigorously" by gauss

become !

*) The alleged empirical confirmations of general RTH through

Observation lie partly not properly before (red shift), sometimes they do not agree

with the empirically determined amount sufficient agreement (Perihelahweichung of Mercury)

sometimes they can casually another Erklärun g ^ (light deflection on Soxmenrand).

From a proper empirical Confirm clothes (which, incidentally, at a epistemological

theoretically impossible theory is ruled out, since it is always different

Interpretations exist) can therefore be no question.

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b is the smaller rate, ie b <a. Before he therefore his

Hypothesis dared, he would have to prove the above sentence as incorrect

have to. This evidence is lacking so far.

2. Is this well-known sentence still valid, so is the

Michelson experiment with the previous ideas without any difficulties

to membership of explaining how in the book: Walte, "strength and energy" (Otto

Hillmann, Leipzig), no. 110, p 132 ff * is set. Then falls for single-

stone the only occasion on, the supply him to prepare his theory

has anlaßt. The Lorentz hypothesis is thus done as other

watching.

3. From his formula for tf concludes Einstein that of two and for

exactly the same setting clocks one when it rises at the North Pole

is asked, is faster than the other, if this is on a point

the equator is, and this is because the pole rests, on the other hand the

Equatorial point, once every 24 hours to rotate about the axis of the earth. The

Formula for% 'presupposes that x and v have the same direction. are

the directions are different, can be from only the projection onto the v

Direction of x eligible. But x, the view of the observer

at the pole to the equator, and v, the way of the equator point up,

are perpendicular to each other, then the projection of v to x is equal to zero,

So t / == t. Thus Einstein wrong from his own formula

Conclusion drawn.

4. In the formula for t 'can v and x and opposite direction

have obligations; then vx is negative, and - - 2 - positive, then muH tf greater

C

in t, while it should always be smaller by Einstein.

5. From two to be exactly the same continuous watch is located, the

a back at the North Pole, the other on the equator in an after

GE south traveling course, the minute hand on both the east

oriented so that their tips move south. Am Pol is the

I

X *. X

Speed of the pointer tip - at the equator. between these

two speeds, a difference, at least according to input

stone, exist; but he must be very small, because this speed

liabilities measured by them times must be proportional, this

but having such a small difference according to Einstein that he by

our most sensitive instruments can not be determined. Then

is through establishment of Einstein's values for x 'and t'

obtained an equation that after due reduction in t ~ c exceeded

goes. The speed of the pointer tip of the minute hand in the

Pm at the North Pole is then nearly the speed of light.

But that is nonsense.

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From his F undamentalformein passes Einstein equation ago:

and concludes that, since the denominator right small

than 1, x \ - x '2 greater than xx - x is 2, that therefore have a length in ruhen-

the system receives an increase in length in the moving system, so a

Body a body growth gains. This growth, however, is a

Change the state of nature connected; such is without comparison

storage not of energy possible, at least as long as the energy -

principle is recognized as correct. Because when energy is neither disappear

It can not be created, a change in the nature can only

caused by relocation of energy; and the only

The reason for the latter is the difference between the level of height

Energy at adjacent points, coupled with the pursuit of each

Energy to eliminate the difference in level. Thus is the input from

steins formulas derived enlargement of a body without energy

expenses with the energy principle in opposition.

Dr. RUDOLF WEINMANN / BERLIN

Special relativity

The insufficient reason - the false assumption -

The absurd consequences - The other options

A theory which claims to be converted our whole worldview

zugestalten under, admittedly!, outrageous impositions on

our thinking and waiving any vividness, has achieved

creased obligation to demonstrate their need by all others,

easier ways turns off and the compelling reason for

its formation proves.

Neither can the special RTH.

The reason is: Michels on- attempt "contradiction between this 66

and the Fizeau -Try, maintaining the classical relativity

principle in connection with the pre-relativistic law of Konstanz

the speed of light. This rise, concrete-optical in his

Nature itself in grotesque disproportion to Gesamtweltbild-

remodeling, not holding stitch and does not lead to Einstein chen off

absolute constancy of the speed of light, the core and

actual content of the special RTH, with this, that the relative

vation of space and time, stands or falls.

1 . The Mi ch el son - V beseech proves with or without adopting a

Ether, under all circumstances Bonding of light propagation with

the movement of the celestial body (ground), but not with intra-terrestrial

Systems (railway WOULD CHOOSE etc). A Michelson V beseech latter

not available! - And can not exist. Because omischer with phoron

Evidence is arianz by Constance d. L to W eltkörpern (== c) V

to moving systems on celestial bodies (= c ± v) conditionally. A and

same moving point can not be different moving points

have the same velocity. A par un Executable GE

Thank you ! (By the way, why try the relativity theoretical physicists

not last the - * certainly arguable just for them - experimental

tellen proof of absolute constancy d. L. by Michelson V beseech

in train or plane? !)

2. The Fizeau V beseech confirmed the Michelson experiment, instead

to contradict him: he also proves the constant d L. to.

Tube (regardless of the moving media water, air etc.)

Konstanz to the fixed to the tube Earth system, ie

he speaks - even if one clings to the airwaves - not for rest,

but only for resting the earth ether, like the Michelson

Attempt. And he makes it clear that a Michelson experiment based

on intra underground movement c would not supply us.

3. The principle of relativity within itself constancy of natural

affection for each parent system, but expressly

Variance of speed to coordinate systems 1). The

"Natural events * 6 is not in our case, the speed of a

and the same light beam or point.Hope but the speed

of light. This is constant with respect to the system, the light that

- - Dynamic! - Listening: earth, world body. (Proof of just

Michelson and Fizeau try!) The single light beam (point)

however, depending on constant or variant. Einstein linked purely

mathematical and, more generally, a light movement with all

arbitrary coordinate systems, without this as real - above or

sibling - body systems to differ. (What makes

Space and time to the computational approach sake its unique loading

was losing; just like when one and the same sound,

flying bird, driving car etc. put constant at different

moving bodies, instead of a single sound, etc, raises each body.) Einstein

the principle of relativity, while he at the same time forward

relates. -

The solution can only be: When light, even starlight world

körperrt opposite - only this can be after what has been said

act - under all circumstances is constant, so will Cleavage,

Division of the light distribution of the light beams on the in

enormous distances from one another and not in eliminator ungs-

loose translation (as embankment and train) located in the world body

the way place that it was in their movement each received (

it by gravity or otherwise by dynamic linking)

independently of the movement of the light source.

This assumption is sufficient in the simplest manner by the relative! -

*) SJEmstem. . Gemeinverst, p 8. - S. 12 is the Converse eil claims of S. 13

the "dilemma 4 1 thereof stated and as - bstgeschaffeuen solve this se 1

Dilemmas special RTH postulated.

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subsidiarity alone required and only possible relative con-

substance d. L. If there were but even entfernungslos e Translation between

Heavenly bodies, would apply on the other side really c also against

Train, etc., so would just here holding on board either of the

divided light medium or a split light beam to accept.

Of course, without this superfluous space and Zeitverände-

tion. (How sound in air with guide each constant, if not -

entrainment variant speed moving bodies having.)

These physical hypothesis is instead a clear cause and unsubstantial,

mathematical fiction a clear causal Zurechtlegung 1)

is compatible with any theory of light (even and especially quantum theory)

can - in the sense of the whole rest of physics! - Our laws of thought and

untouched our space and time to the chauung and spared us

all absurdities (euphemistically: difficulties) of Einstein

theory; namely time dilation, R oom shortening, lagging the

Watches, shrinkage of the body - "from the standpoint of the rest

Observer from **; further relativity of simultaneity, formation

a limit speed. This abstruse, purely mathematical con-

sequences of absolute constancy d. L. expose their condition,

precisely this constancy, as false and impossible, therefore, are also

not to save the possibly, correct mathematical way and described

suggest a completely fundamental and senseless destruction of each, of course

union and epistemological, Wirklichkeitsbegriifes. Since the

Change of viewpoint is theoretically at any time enforceable there

existed the earth, for example: after RTH as many realities.

once in all its fullness as we know, at the same time and just as real,

with an appropriate choice of the observer coordinate system, as a thin

Disc, ie virtually not at all. N aturwirklichkeit has ceased to be a

imaginable to be a conceivable stable Something.

"The Be whether esteem, position 4 4 conflicts with the sense of

Physics, who lent the supernatant counterbalance all viewpoints,

at any stationing of observers, aims.

But if one wanted the RTH another logic, other laws of

Thinking and intuition grant - in itself an impossible company

catch, because these laws are timeless and therefore companies no change

been - so it has rescinded the RTH itself on that deal with their

Conclusions and evidence of generally valid necessary to the instance

term human reason applies - to whom else ?!

Therefore: even if the indicated possibilities positive ER-

declaration can be contemplated and the solution of relevant issues,

which must be added the - also purely optical - the aberration, Doppler

, effect etc. come, first open or other light-theoretical

i) It should be noted: The Michelson-V beseech, thus a real underground operation, is

be it explains not fictitious, kinematic events in the gravity-free

Room! But this does not explain the RTH, they stated only - wrong -

the result of M.-V.

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Research would be left (if you do not already present,

non-relativity theoretical explanations of great simplicity

want to accept) - • Einstein's solution is under all circumstances

were unacceptable.

Gan® and can not from a positive he knowledgeable theoretical

meaning of this MTB of the question * Even methodologically leads

about epistemological no way of physical observation

Positions. The phenomenalism and subjectivism * but also

epistemological idealism of any variety, has double injustice

m * to see the RTH a kind of "empirical confirmation 4: the physical

metallic B e whether esteem, position has nothing to do with the findings

exceeded nistheoretischen reference system of human consciousness

all - and just the idealistic epistemologist must with

his proclaimed primacy of consciousness the laws of that

prefixing consciousness any experience. The realist is from

For obvious reasons, the RTH as from the start as ontologically

reject logically impossible. The Phanomenöloge finally has the power

Stein relativity of space and time as absurd, the idea.

both contrary, reject. -

So what is but the events from which and to the confused

confusing allegations of RTH was the occasion?

Light and light signals, included in the general cosmic

Motion games yet to a probably very complicated, perhaps never

very identifiable style, allow no absolute time and space

measurements in the cosmos, which only would be possible in an absolutely at rest

Room opposite absolutely moving in his bodies. Even the "dormant

Ether * 6 - - for hire, a positive result of the test or Miehelson-

Explanation of the aberration, or in the sense of Lorentz - would be

first only equivalent to one with the sun (instead of the

Earth) firmly connected system.

The co-moving (with static) observers alone achieved the correction

Needing no or readily correctable measurement results, it was

by scale application, either by subordinate signals (whether light,

if sound, etc.) in its own system. In light so respect the earth

{World body) or on them moving body (trains, etc.). The

subordinated Einstein's postulate of all bodies at once

Signal raped nature and reason and contradicts itself by

the abstruse consequences of abstruse phoronomischen condition.

It makes sense, only the assertion of the respective World Body

Constance d. L. indeed, to the subordinate signals. Wherefore for

each observer moving "the 66 light, ie light beam

the rate c for Eigenwelt body system, but of course c - V

on the other hand, moving the world body system (with the same motion

direction of signal and body) - during which comoving observers

eighth for his light beam c measures. This respective constancy of

Light does not lead to time Ra umrelati vation, d * h. To pursue

the watch movement by and for shortening of routes for

the stationary observer, but only at a different locations

the clocks by light signals from a common starting point

from when already taking place movement of systems * Quite the

same would of course in acoustic signals, z. B. on Earth,

the case - - due to the different, to each einfügenden

Impulse! With synchronization on the basis of mutual peace

can the later onset movement course not

Effect her argument, which already This was preceded by the Einstein yes

translated Relati vit ät sprinzip - EinfluBlosigkeit the uniform loading

movement on all operations! - Is impossible: The clocks remain the same

and retain matching hand positions. The Haunting of inputs

Einstein's paradox zerstiebt in nothing. The possibility of by Lieht -

bodies signals different questions may watch on world

remains in the above added harmless form an idle

Mind game. For our, now once oriented from Earth

Astronomy may have no results. Still less of course

in Einstein See form! The alleged astronomical sawn

confirmations must be random or arbitrary derived - because

it is the nature of the theory that it not on realities

can make statement.

It speaks not played against the special RTH that the General

RTH them to the area of the gravity-free space one ore änkt, the

does not exist in the real physical world; that the question of the

Constant velocity of light in the general RTH completely

is forgotten. -

Einstein science one way or the on the classic,

ie the one and true and eternal principle of relativity led out.

The light, the electrodynamics obeys this, self-

of course, if one light motion the cosmic events

sense classifies. Intellect, intuition, nature can not be

dikti older that c + v - c is. That would only if c infinite

is or v infinitely small. Practically, it's considered concretely

about as. And that is why Einstein virtually no damage other

judge. But proceedings before the forum of science, the truth

dislike to insist his theory, c = civ destroyed the meaning of the

Number and thus the sense just of mathematics, to which the RTH

repeatedly invokes.

Without Einstein and against him the idea of relativity remains

and the relativity principle untouched, but you f ühr s not like at

him about the absolute constancy of the speed of light to the absolute

Chaos.

See. D. V. "V beseech a definitive refutation of the special RTH W. Hill-

man, Leipzig 1926. - - "Anti Einstein quintessential" archive f system.. Philosophy,

Vol 30, Issue 3 and 4. -.. "The absurdity and the superfluity of special RTH * 4,

Annals L Philosophy 1929, Vol 8, Issue 1 u 2 * -.. "The inconsistency of special

RTH ", Nature u. Culture in 1930, 27 year of birth., Nr. 4,.

GEORG WENDEL / LI ER CITY (East Prussia)

35 THESES

RESIST THE STONE ON LINGERIE THEORY OF RELATIVITY

1 * R * e foundations on which Einstein builds on its RTH, are highly

problematic nature. He takes some errors elderly physicist

siker or mathematicians readily as facts and build a

Theory on giving without any reasonable grounds.

It represents only allegations. So he accepted the four-dimensional

lea space, an idea that Riemann and H Elmholt m (one must

say once had in their weakest hours), while

a four-dimensional space can never be. From merely notional

tive possibility that this is not even, it makes a fact. As well

he accepted the errors of non-Euclidean geometry, where

it merely dealing here with different nominal definitions of Euclidean

Room but in W irklichkeit always remains the same and only three dimensions

are the space possible. He accepted the doctrine of a finite

Space, while the space can never be finally and after all

BEITEN out must necessarily extend to infinity. That had Kant

and Schopenhauer long ago clearly recognized.

2. Einstein confused measure space and real space, GE

time allowed and real time. Space and time, the

are fundamentally different (the space has three dimensions, the time

only one and is in us), he considered as a unit and provides

so the false notion of a space-time Union to the philosophical

untenable (only for physical purposes can be time and space

in certain calculations unite, but a purely mathematical

Matter is). The philosophical concept of space-time Union

would say the same thing, as if someone as water and iron for that

same declared and of a W ater-iron U nion talks.

3. Einstein confused space and mass. The space sticks to him

the objects, while rather the objects are in space;

yes it is him an object, so that each body has a special kind of

Space zukäme. The room is it a piece of matter. He knows nothing

of the intuitive form of space, of the great discoveries

Kant, he has probably not read. The room has with

the bodies and matter in itself has nothing to do; only that

the body in space is.

4. The first sentence of his alleged RTH is totally wrong. A stone

statuiert the utter relativity of motion, claiming that

statements about movements such. as whether the driving of a train

thrown stone falls vertically or in the parable, equal

are. So any subjective appearances he declared equally true,

Thus fell the stone in a variety of curves or lines, and

any assertion about it would be equally correct. Thus would also each

Thermometer from! esung whether the thermometer from a certain height

5

£ liutda

is read or from below, on an equal footing. is of course

only one correctly when the eye is in the level of mercury "

Mirror is.

5. Einstein cancels the Newtonian mass law, when he

maintains that it is completely equal to assert that the earth around the

Sun or the sun rotates around the earth. Newton's gravitational

law is mathematically proven. Einstein denies thereby the loading

grabbed an acting force, he denies the fact that it forces the world

all are, and also highlights the concept of causality.

6. Einstein teaches a curved space - an incredible

Mistake, because the room has no design and to all directions

obligations towards expands into infinity.

Einstein also teaches that the straight line back into itself

return. He pushes her so under a curvature and is probably thinking

the meridians. The straight line is perfectly straight and after

both sides into infinity.

7. The most incredible mistake is his assertion of relativity

ity of simultaneity. Thus would the present time, in

I write this, as on the Sirius quite different. The time is

be related to the state of motion of the body. Thus would

People are younger or older depending on the state of motion in

which they are located. One can summarize this theory only comedic on.

In reality, the time progresses constantly advancing, every time is fixed

determined, is there an extraordinary Whether he fl ächlichkeit of

Thinking to assert that the times could be relative.

8. But Einstein goes further. He even claims that

may communicate with cause and effect (at one point in the

"Annals of Physics 661). He therefore considers it possible that the ef-

kung could precede the cause again. So the shot

could go rather go before the hammer is cocked! The chicken could before

be the egg since!

9. The ether explains Einstein for absent while through

him a propagation of light is only possible and ga n ze con-

continuity of the universe would be destroyed when no light ether between

the molecules and atoms and empty between the fixed stars nots

accepts. Rather, the ether is a basic constituent of matter, and

I pointed out that it is the raw material from which all matter

has developed only 2).

L. According to Einstein, it is entirely to say whether the observer

or the environment moves. When a Eisenhahnzug suddenly

holds, so n lüßte after RTH the ground a sudden jerk

received the law of inertia in accordance. After RTH should in-

*) "On sprinzip demanded by the relativity of inertia of energy", Annals d.

Physics, Vol. 23, 6

2) In my unpublished treatise "Nene hypothesis about the systems

matics of the universe and galaxies ".

66

follow the misapplication of relativistic thought all homes

and steeples like houses of cards collapsing, and you want

to good care not to live in such a world, where everything is relative

moves and all that matters is the position, what is known as the be

Moving considered. It is almost unbelievable, z. B. when the

Shore moving ship to achieved the visual inspection for the same true

clarify as if the objects opposite the shore of travel expenses

direction moving away what they do not dream.

Bi ah RTH it would be completely to maintain the same: the train

moves forward and the embankment rests. Or: The train is

silent and the embankment moves backward.

11. Einstein would, as you look at all the movement as a relatively

can, the outermost fixed stars high multiples of the speed of light

have ability to give the theory itself refuted, since the formulas

then be pointless. Einstein had this to go himself and has thus

his RTH itself already given on - while his disciples further de-

wiekelten. - - It is therefore the odd F all before that the theory by

is itself refuted. Except that it does not know the world and believe!

12, time and space disappear by Einstein and Minkowski to

Schemes to nothing. That they are a bit, but everyone is

Remember, approximately the distance from Berlin to Königsberg or even

Skip wanted to Sirius or tried the period

wegzu- between the antiquity of the earth and the current Quaternary

think. Such examples can be seen, what is to keep them,

if declared space and time simply for nothing or of a

Space-time Union speaks in reality, while space and time as gänz-

can unite va- rious forms of intuition de facto never

and only for the purpose of mathematical and physical calculations

can be combined iii purely practical sense, but never in reality.

Moreover, the space has three dimensions, the time only one and is also

iii our consciousness exists, the space is not. This also had

Balägyi overlooked in his concept of space-time Union.

13. About the alleged change in the lengths and dimensions

the body is probably to say hardly a word. Lorentz had a de facto

Amendment adopted due to a misleading conception

Michelson's experiment. Of course, I sit here a note

the facts ahead. - - Einstein commits the fundamental mistake of the

Length of bodies by measuring time provisions. The earth would,

w hen she moved with the speed of light, according to the RTH to a

absolute space are so circling as "area 46 in the universe -

e hie incredible idea - and their kinetic energy would

nevertheless be infinite. Alas, when a celestial body with this

infinite energy continues hey path ends face to collide!

left ens would the length of a moving speed of light

his rod equal to zero; so he would just disappear. - Man

such a physics probably described as a fairy tale or as witchcraft.

67

5 *

14th The kinetic energy of the radioactive ^ "rays showing the

nearly reach the speed of light, would be almost infinitely large and

suffice to lift the universe to pieces - which is not the case.

15. For the companion star of Sirius Einstein calculated the specific

Weight 53000! Although logically possible! But woe if these appalling

Liche mass falls again to the earth! The severity of a person would

be monstrous in this rating.

Sixteenth Einstein's example of that known accelerated in equal förmig

Upward movement flying box is wrong and proves nothing;

because the observer would be very foolish if he did not from indirect

could develop criteria easily, what really moves. A stone

sets a very harmless and physically very uneducated observers

eighth ahead.

17. Einstein Minkowski time is a fourth dimension

of the room. I have already pointed to the utter impossibility, space

and time in reality to unite in this way and the room even a

Ime dimension to dense • The space has Euclidean with his three

Dimensions enough and can never be something quite different,

take him heterogeneous in itself, so little it up as iron in itself

can take. He is not digested (pardon the joke!).

18. Einstein constructed a spherical space and teaches

Finite nature of time and space. The acceptance of the End

sensitivity of the time is a gross mistake of thinking since the time necessary in

the infinite runs, so like under the image of a straight,

infinite line is presented, which never bends and not

runs backwards. The same is true vice versa from the room, the three

infinitely extending dimensions, therefore has no design,

therefore never be spherical and can not bend (see. Thesis 6).

19. A person who eltall from a point in W, without his direction

Change to, straight runs or flies, would after the RTH at the same

Point back return. This is only the case on the ground and

an entirely false generalization earthly relationships. Of the

Infinite Space is simply considered spheroid (s. Thesis 6).

20. Einstein confused purely phoronomische and dynamic

Move. A dynamic movement he did not know and

denies it, is told as in Proposition 5, the concept of force and

hence the causality, since without force no causal relationship

may instead have. The Einsteinianer go in part even further,

since they can also apply to any laws of nature. - Certain mathematicians

declare today the mathematical definitions of arbitrary because

keep them falsely all definitions for mere nominal definitions,

and Neointuitionismus even denies due mißverständlicher

Considers certain mathematical theorems, z. B. the infinite

Dual fraction, the principle of contradiction. Here is the term

the infinite speculation wrong, which is taken in reality, while

only the negation of the finite is.

68

21. Einstein denies the influence of uniform collective

Movements on the special movements of a system. If

this would be correct, so z. B. would the earth's rotation have nuclei influence

can on the V erlauf the trade winds, which is not the case. The flattening

Earth would be inexplicable or in a completely impossible way

must be explained by gravitational forces "

22- Right Palägyi says in his book "New theory of space

and the time 66 that "the whole play a with the transformations

dangerous tautology because it arouses dm bill as if they a demonstra-

stration of the relativity principle contained, while only the logic voltage

methodological principle expresses that we the absolute legislator

temperance movement in differential equations, the concrete element

mente same contrast is in integration constants provide 64,

23. Einstein defined the space as a quintessential spatial

Experience - which is a tautology. So nothing is said

nor still less proved. The room is actually a three-dimensional

View form in which we have to look at the things necessary.

The time is not the fourth dimension of space, but of intuition

J ° rm of the inner sense, as Kant says, better consciousness 1).

24 Einstein leaves the geometric characteristics of the room

tery be due to Ma. In reality, the room is a bit of

Matter Heterogeneous and conditionally rather how Kant had recognized correctly,

experience the world of perception, therefore Ansch is auungs form

a priori. The ratio is thus a straight reverse. - About the

Confusion of space and ground, and the confusion of measurement

space and real space s. theses 2 and 3.

25. EJ Walter says in his essay "ET H and Philosophy 64

m the "Journal of the Society of Natural Sciences to Zurich 66 2)

Law: "The inhomogeneous, hunchbacked space Einstein is just purely descriptive

conceptually already homogeneous mental space Euclid advance. 46 - *

That is, by the way, with all supposedly new space conceptions of

uicht-Euclidean geometry of the case, the only other Nominaldefini-

tions dominate, but in reality always on the Euclidean space

must build intuition necessary. A mischief is all talk

of the supposedly at infinity intersecting parallels. you

intersect never and do not remember so little just

Line thinks about returning to yourself, or the room itself

bend cramp in honor of RTH • One looks today quite

New way and wants everything old, scientifically proven

a) See my papers. "criticism of some basic concepts of the transcendental

Idealism *% Archives of Systematic Philosophy 1908 14 BdL, 3. Issue; "Under-

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»» For room teaching stump and related theories ", Archive for History of philology

sophie 1924th 29th Vol. 1 u. 2,. Book, and my work "Critique of cognition *" Carl Georgi,

Bonn 1914 (L Au fl out.).

2) 69th year of birth "2. Heft, 1924th

overthrow, to make it appear as if one new

great discoveries made.

26. The "absolutely stationary space" Newton intended by the assertion

tions of Einsteinianer be dispensable. In reality, the rest

Periodically, and can not move, because it is a mere formality,

no body is. In reality, there is only this one rest room

and in his movements of masses, but not a movement of the

Space itself, which is a contra diet io in terms.

27. The assertion is absolutely false, that all motion only relative

be. Aller relative movement is based on an absolute; else could

one does not speak "relative" of. This is a basic

logical error of RTH. This, incidentally, is itself everywhere absolute

Values advance; z. B. speaks Einstein of the alleged "constancy of

Speed of light ", which is, incidentally, nothing to prove.

28. The perihelion of Mercury is not only through the

RTH be explained, but it may include. B. interplanetary masses because

and there are likely to be. The scientific amount to this

to use an expression once, can be achieved by such alleged "sawn

example "of the RTH only lull. One sees the serious logical error

of not RTH.

29. According to Einstein and the Einsteinianem consists of the line

Points along which lines and areas are mergers

of infinitely many points - again, a very serious and on the

Hand lying mathematical flaw because an infinite number of math-

matic points never a line, completely not an area

or even give the three-dimensional space.

Harry Schmidt, a Einsteinianer, called z. B. the cylinder a one-

dimensional continuum; because he allegedly made louder same

Circles composed, he calls him also two-dimensional. - Man

out looks, the concepts of "one-dimensional" and "two-dimensional" are

diced each other, and the mathematical concepts are turned on

repeatedly nixed. Of course, the cylinder is three

dimensional and not made up of circles, as an infinite

many circles never found a body.

30. The space is not an infinite number of partial spaces

together, but can only be mathematically decomposed into space parts.

But there is no physical space parts with which you handle

could and from which he is to be composed only. Rather, the

Space uniform Änsehauungsform, in Kant translucent sense

a priori, that is given prior to the experience, which extends into infinity,

and there are an infinite number of bodies which occupy space parts

and therefore have certain "volumes". Everywhere you can find in the

RTH a complete reversal of the actual conditions. Even-

understood the concept of spacetime is illogical.

31 space and time should be dependent on the mass or by

the matter be caused. Here is a mix of space

uad mass before (s. Proposition 3 and 24). This error goes Biemann

znröet and is one of the few serious flaw of this great

Mathematician, but had unexpected rim.

32. What remains after the RTH of the world, are reference

mollusks. The RTH leads to a dissolution of the world, because the

Removing basic concepts of space, time, power and causality

are switched.

33. The Einstein RTH would up the law of causality

be lifted because there were no forces in the universe for her and no

dynamic movement; even the concept of nature ges et zlichkeit

would mumble so. Thus fell the world collapses.

t 34. Dali Fizeausche and Michelson's test in reality

speed not communicate with each other in opposition, but unite

blank, and that the Michelson experiment see a previously ignored

Source of error is present, Erich Ruckh But has first shown in its pre-

excellent writing "The RTH refuted by d as opposition

principle and the natural explanation of Michelson comparison

suchs "1) This excellent researchers united in a rare manner

comprehensive physical knowledge with a sharp verbal and

philosophical clarity.

35. The observations of Grebe in Bonn over the redshift

1 1 O

öung the spectral lines are imperfect, outdated

4 w JL *

made devices, are therefore very unreliable. The observation

evaluations of the deflection of light rays at the solar limb

were too small value and those which the influence of the refraction

tion and aberration corresponded. There are here so ordinary

physical causes before and of the supposedly strict "Prove 4 *

fir the RTH is no trace yet. - Gives the whole theory

look at us as a monstrous thinking error, composed of a

large mass of loud heavy thinking errors composed and

a serious criticism, as I delivered them into most concise soon as

em house of cards collapsed.

Epilogue.

I would also point to the egregious errors that at the

R iii. Connect and more or less the same consequences. As to

2 * B. have become staggering the law of causality, because the

orbiting electrons release their energy in quantum. One can

certainly not ahead of jointed energy of electrons -

Calculate, * said "it should be noted that here everything is still hypothesis.

Bas is the simple fact. From this we will conclude at once that on

a given cause the same or even an effect only with

Probability follows. If this were really the case, and would not be

aur a defect in the observation and in theory, we should have the

1) See p 49th

Wide necessary long be zusammengefalien; because it would then z. B,

by no means certain that the earth and all our body attracts permanently,

and the moon would have z. B. long can fall to the ground "without cause"

which it does not now, because the law of gravity binds him. It could

be expected that I fly z. B. "without cause 66 to Sirius, as it

then it is not certain that the earth attracts me permanently. This possibility

speeds are necessary consequences of the theory that the law of causality not

is safe and only a certain probability has. This refers

on Reichenbach's theory of similarly causality and

so that I aturgesetzlichkeit cancels and me a certain W ahrschemhch-

ness want to accept.

Equally absurd is the axiomatic Hilbert, after which the mathematical

and logical principles are only appointments that are described

can take arbitrarily. So of course you can do everything and

establish any definitions * Only one will soon realize that the

not be trifled with basic laws of thought. One can

course up arbitrary definitions; they are, however, very

soon prove nonsensical. The real axioms contrast

eternal validity and the mathematical theorems have apodictic

Certainty. It is a foolish talk that the parallels in accident

to cut finite, that the straight line return in himself

and the like, while the popular demonstration:.. 0 * 5 - 0 * 3, ie 5 - 3, is quite

misses. It is here simply a terrible mathematical error,

because 0 no actual numbers, but only the negation of a number *

Likewise, one may value co not believe in reality, he only Ne

gation of the finite is.

Kant has already shown - and this is one of his Hauptleistnngen -

that mathematics and mathematical science apo

have diktische certainty. But today represents one arbitrary "De-

definitions ^ and "axioms" in explains all terms for relatively and wants

even the law of causality, so the logical principle of contradiction

lift entitlement to, on its absolute validity our thinking

based. This necessarily leads to a complete nihilism, the Supervisory

survey of all science. This is the true meaning of the "RTH 6 *

and the alleged "Revolution in the north aturerkenntnis 4 6, which they

has caused.

I note finally even that far two brilliant satires against

the RTH have been written that will be the most unknown

likely. It is the brilliant satire of Gilbert "The principle of relativity

- The recent Modenarrheit knowledge sheep 661), and the pros

excellent satire of E. Ruckh But "Relativia" 2). The time has hopefully

not far off when the huge mistake of science as one finally

such recognized.

*) See page 76, 86 citations, Gilbert.

a) See S. 49th

MORE

OPPONENTS AND AGAINST SECURITIES

It is of course impossible to me nearly all the votes to

capture to exhaust all the relevant literature, even all occasional

making utterances locate - - so it just for the purpose

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on the other opponents of Einstein and at least a part of their

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78

QUOTES FROM TO SECURITIES

Edited by Dr. R. wine man

- * Self - From literature cited some remarks which follow

understandable - were multiplied at.

Dr. H. Fricke, aa 0. 3

"Einstein RTH has for their subversion of our space and time

term and for their alleged confirmation by the observer

tions of Sonnenfinstemisexpedition great a stir. There have

But the voices increased in recent times those who theory

reject as completely absurd and logically untenable. It is here in

as simple and clear manner the issue presented

and the basic error of Einstein are discussed.

Einstein's mathematical theory on two alleged "world

postulate 45 * on built, of which he claimed to be the "unabweis-

bare consequence 44 optical experiments. The first postulate of

Relativity, which gave the whole theory the name, is the

less vulnerable, harmless, so to speak. It asserts the equality

authority at different speeds, but uniformly moving systems.

If the postulate from the standpoint of the physicist of the highest

Measurements may be challenged because it for the presence of the support of the optical

Phenomena, the light ether, no consideration shall be so

but at least no logical on walls does prevail, that it

after all, still be regarded as a valid hypothesis. W ince worse

is there but with the second postulate, the constancy of light

speed relative to any uniformly moving observers

claims. Here begins the conflict with the usual logic.

From Einstein's followers is usually the only one "principle

Constancy of the speed of light * "4 spoken what physically harmless

sounds and therefore departures from critics unfortunately many harmless

has been taken. Only by emphasizing the observers stand

point is the inner contradiction easily recognizable. A physical

metallic appearance that generally as if j ectively and speak tangibly

is considered, the light beam is then the remarkable property

have to all observers, even if they contain relatively located throughout

opposite directions move uniformly, always the same

to give value. The point of this monstrous assertion can be

'Easily illustrate. Complimentary others will accompany a river so

can that the flow relative to him (at least approximately) at rest

is. now Let us try, however, to imagine a river that relative to

two moving in very different directions hikers resting! And

Now imagine, a large crowd in front, after the banks

all sides uniformly messed flows, and to a river,

the relative to every individual rests! This example seems

me to prove Har, that it is Einstein's postulate of the constancy

the speed of light relative to any uniformly moving observers

aft not an allowable hypothesis, but a complete

Begriffsanarehie concerns that must lead to the strangulation of all physics.

Einstein denies the contrast between his F ormulierung and the

"Ordinary common sense stands 6 * and the usual logic

well not, but claims that the opposition is assuming a

comparison intricate function of the time of movement of the observer

would disappear. Man has this supposedly very "witty idea 66

wanted to make clear, by "twins, one of which is equal to

sent after his birth on a journey, returns home as a schoolboy,

and his brother finds an old man with white hair, if this

is not even dead already. What nonsense in the logical

Vanced leadership of this idea comes out Gehrcke has in his work

"The RTH, a scientific mass suggestion 66 {V succumbed Köhler,

Leipzig) in very humorous way through. Because after Einstein namely

each of the twins due to the relativity of all motion,

even at rest, but his brother considers emotional, everyone is allowed to

others remained for young but herself aged for or even been

for - died explain. Gehrcke compares the situation created by the RTH

Situation with that in Andersen's fairy tale "The Emperor

New Clothes 46 describes where a garment is woven, only this

can see jenigen who are smart enough to do and where eventually all

admiration and amazement stand before the empty looms.

Now claiming Einstein, its principle was the "inescapable conse-

frequency 46 of the observations. On what basis such a sawn

assertion is based, can the reader to judge if he learns that

Measurements of the speed of light in different directions

been not yet performed moving observers on Earth

are. Where something has been made in this direction, as in

the experiment of Sagnac, has the exact opposite result of the,

what we had expected after Einstein. Einstein based in Ermang-

ment direct observations of cosmic on an intricate reinterpretation

Attempts to prove anything in this regard. So he claims,

the attempts by Michels on and Fizeau well as those on the aberration

tion stands each other in an insoluble contradiction, although

all can enlighten these attempts casually, assuming the

Carrier of the light waves, the ether, things were so, as if he were on the earth

movement were participating. (See. This Gehrckes controversy with Einstein,

. Ratio d phys Ges 1918 and 1919...; further Fricke, lecture in Jena in 1921,

Phys. Very tent. P 636-639 and "The flaw in Einstein RTH '6, Wolfen *

büttel, 1920.)

It likes shown on an illustrative C omparison from acoustics

are, as phenomena on the type of "constancy of the speed of light

speed 44 conclusion. An observer, the sound of a particular

6 Einstein

81

Sound source even in the laboratory or in still air outdoors, then

in a closed-propelled rail cars and finally even in a

now here and soon signed by the winds there driven Freiballon

investigated ^ is despite its diverse in almost all cases, movement

state always ^ relative to a "constancy of the speed of sound

observe. Nevertheless, it is of course for every physicist that

it is a "world postulate of the constancy of the speed of sound relative

to arbitrarily moving observers 1 "6 can not give, but rather that the

State of motion of the wearer of the sound waves, the air, the decisive

dividend importance.

It is obvious that the strange ideas about Einstein

the mysterious function of the speed of light from the observation

achterstand point with the adoption of an objectively verifiable sub-

stantiellen ether, previously the basis for systematic pre-

Declaration of electrical and optical phenomena formed, incompatible

is. Therefore, the theorists who follow Einstein believe every physicist,

the still believes in the old ether to be allowed hinsteilen as backward.

The life work of physicists who viewed a reconnaissance of Aether Physics

and its obvious interpretation have set the goals, is of the

Representatives of Einstein therefore look towards herab- at every opportunity

set. Not Einstein is the attacked, but he has the

other logical foundations of science in such a terrible way

grasped that it is only self-defense, when physicists are increasingly

unite against him to also a modern combat

lead against in all areas threateningly growing anarchy.

As it now behaves with the alleged experimental evidence

for RTH? Einstein initially a formula for the deflection

the Merkurperihels indicated that its from a generalization

RTH is to follow. How little such a special calculation formula for general

Common theories proves best shows well the fact that exactly

the same formula already 18 years before Einstein Gerber from the ether -

physics has been derived. Furthermore .Einstein has the deflection of

Light beam through the S ch werkraftf eld of sun as evidence of the

Correctness of his theory back as opposed to the theory of Newton

posed. Now has more than a hundred years before Einstein

German scholar v. Soldner the same deflection of the light beam

calculated by the solar gravity from the theory of Newton!

Lately has especially Stjepan Mohorovicic, Zagreb, in the natural

. Scientific Wochenschrift 1922, unit 11, pp 145-53, an elementary theory

developed by the gravitation, wherein the results Einstein without the

Relativization of space and time are derived. Einstein's gravitational waves

tationstheorie therefore appears to remain completely independent of the RTH

described impossible principle of the constancy of the speed of light

be found. In fact, Einstein in his theory of gravity

This principle is already limited; it is only for constant heavy

force field be valid, but should apply, for example, on Earth. Just

here but its validity is highly unlikely, even missing here

far any checks. The principle loses by this limitation

So nothing of its internal contradictions. Thus, there remains nothing

left but the unfortunate idea of the relationship of light

speed to the point of observation and the time relativization

at all, and thus everything to drop what in Einstein's theory

the usual knowledge chaftlichen mindset disagreed. All inputs

stone anfiihrt proof of his world postulates, can be obviously much

easier and more natural to explain without the space-time relativity, so

that for the overthrow of the concept of space and time and the abolition of

Universal ether also not the slightest evidence remains. & Quot;

Br. S. Friedlander 1), aa 0th

"Einstein changed the time-concept without getting to the time itself

To take care of. But the fact that I change his concept, changes

no object "(p.30). "Just logical possibilities is our

dear old room angedrillt with all his might, and the result is the GE

writhed and on top of that n-dimensional. . . . dialectician problematic

Sieren Euclidean geometry, the simultaneity itself, because you

certain light beams do not simultaneously perceives 44 (p.31 f.).

"Is the phrase" everything is relative "only of relative validity?

he punishes his own assertion lies ?! Or is such stupidity

least absolute? "(p.33).

"It confused today the mathematical F Ormel, with a fold

About one-Newton "(p.34).

"Einstein identified dialectical mathematics and kinetics. Of the

Physicist Einstein is transzendentallogisch untrained. empiricism and

judgment weak collapse relativism discovered by Kant, strictly

proven truth that the power of the intellect over all sensibility

and nature is "" Euclid and Kant should be overcome.:

to W ahrheit not, but to "overhaul, overcomings" it is

to do them. From the RTH the obj ective reality aside

pushed; she is only interested in the relation to the observer and

so blurs the distinction between appearance and reality. With

,, Four-dimensional space-time "one raises neither Euclid nor Kant from the

Fishing. Combine the measurement of time and the room sizes in

a single F Ormel, but imagines, represented time and space itself

mixes to have. Without Kant priori elements that not

relative are, you can not bring about RTH "(Sk 35 f.).

"In Dinglers attack on science Mathematism,

Empiricism. . . sees Marcus "a dawn of science." . .

Our modern over-Kopemikusse and Ov he -Newtons, Mr "over-

winder "Euclid and classical mechanics he reprimands duly '4 (p.40).

i) Despite contribution Friedlander (8) are of him, later on

Kraus and left, still led some significant remarks.

6 *

. . incidentally, it is the basic defect of modern relativistic

rule physics that it supposes to be able to do without dynamics.

The pure mathematics course it may eventually be regardless of whether you

Ptolemaic or kop he expects nikanis ch. But effort brings only

Copernicus the true solution "(p.44).

"As a result of faulty epistemological training has Einstein

mathematically useful fictions with realities confused. He

asserts z. B., bought up all healthy V, that a sham

* Movement do not differ from a dynamic real movement

could: - the train is moving or the embankment? Why can

because the embankment is not even as the train by lever pressure in sawn

movement set ?! "(p.57).

"It is easier, even sensational, the W ahrheitsbegriff skeptical

to decompose, consequently modern "(S. 59). "Einstein is not described

excrete enough merely to be a physicist, as such, it is only with the

have empirically fulfilled time to do. Einstein device, without realizing it,

to philosophise, and in this he is not a master like Kant. . without

the unrelative priori the empirical time not a moment was long

may consist, for the a priori time is the condition of its duration.

It is not a physical object, and the physicist who her

goes to the body, is non unawares to philosophers, namely to a very

bad. . . . Substituting no uniform empty time ahead, so can

one material processes in respect of their time size is not at all

compare more. If the empty time relatively, so would the character

lost everything dimension. With the unity of time would be of the intellect,

the experience, all common law repealed. Without the

uniform empty time would the relativities of satisfied unfeststell-

bar, hence the RTH impossible itself. Your Into bungling in Kant, ie

in the sound judgment means their own suicide "(p.64 f.).

Professor M. Frischeisen- Köhler, aa 0.? S. 162 ff.

"It is crucial. . that. . . raising and recognition of

all phenomena comprehensive space-time system is indispensable. "

"Lets the theorists re different reference systems against one another in

uniform translation to move, he can do this by reference

systems light signals back and forth, then he can be seen for

these different reference systems a comprehensive them, common,

presupposes for them so absolute frame of reference. Folgert ex now therefrom,

that the time requirements of different observers in the comparison

different reference systems differ from one another, so is an allegation

tion about this difference only on the basis of an absolute sawn

reference system possible. . . "In fact, the RTH sets a uniform

Reference system in the precise sense of Newton and Kant in the room

ahead, in which the movements occur. ". . If one requires. . .

an absolute freedom of the projection of the world in space and time, then

disappears every opportunity aligemeingiiltige statements about a majority

to make use of experiences, then lifts the concept of natural law

itself on. * 6 ".Oie demand a unified view of appearance

openings in a causal relationship includes the reduction of it

comprehensive universal reference system that is, if certainly not

is itself perceptible, epistemologically indispensable. the corresponding

speaks that our theoretical physics of quarters

out . ,. an "absolute 4 * theory strives toward. . . . Which meaning

hence the Einstein See Time Definition computationally bean

may spruchen: philosophically it is likely because they only

a time content, does not go even to the time actually no funda-

evoke legends coup. "" W hen it comes to the statements Natorp

might appear as deliver the RTH a kind of confirmation of

transcendental idealism when zoldt by Pet most perfect

should mean probation of positivism, as can now be concluded

be that they in- against all forms of idealism and positivism

is different. So little one but basically possible positive training

case of the Michelson see V ersuehes the absolute motion or absolute

Time would have proven to be "existing 44, as little evidence of negative result

something about the objectivity of a time in the sense of critical

Realism. The decision on this can not by observing

and experiments are won / 4

N. D. Ed. It is significant that even the Einsteinianer E. R, IN Neumann,

perhaps the clearest interpreter of RTH, za the result comes. . that also this

Einstein's theory nor the recei e a preferred spacetime system based

is, therefore, the adoption of certain exceptional space system and also

a certain excellent chronology. We can say this: Even the

Einstein see special RTH is the idea of an absolute space and an

absolute time basis. "{" Introductory Lectures on the RTH * ', Fischer, Jena 1922

55.)

Professor E. Gehrcke, aa 0. 1

". ,. Einstein. . . over time very different views

had and changed its position several times * ... It would have the

Fluctuations in the opinion of Einstein on such a fundamental question

as the principle of relativity actually been able to satisfy, the expert

to make world suspicious and to meet with skepticism the RTH "6 (p.8 ff.).

"The principle of relativity, which plays a role in the RTH relates,

the relativity of B ewegungs operations. Objectively nothing to do

has this relativity of motion all that in the press

and also sometimes in journals else with the word relativity

is meant. That "all relative 44 is the theoretical RTH. . .

have such generalities. . .nothing to do. As bchlagwort,

acting on the masses, in which everyone believes something he reasonably

to hear the familiar and in which hardly two thinking the same thing,

But is the "Relative 64 for the introduction and for recommendation of RTH

eminently suitable 44 (S. 10f.).

"The relativity of space and time to a spiritual renewal

and a turning point in the human mindset mean

In contrast, comparison of the acts Copernicus, Kepler and Newton

pale.

The relativity of space and time is. . . as a solid learning

Thing presented mathematically clothed, so that many of the non-

received mathematician the impression that he'll never be able

to gauge the depth of this world tumbling thoughts each and comprehend.

And is hardly an object around the RTH with so little effort

wall of learned expressions and formulas to make clear, as just

this. . . . The mathematical formulas give us also only up

circuit about how big the individual are the erre paved effects,

However, they say nothing about the underlying stand

point "(p.11 f.).

"If the man" concept of time perspective "% so you destroy the idea of

a general, objective nature. "The result is" the position

a physical solipsism ". "The RTH leads ... to an old,

decrepit, dim view. This is the "new revolution of

modern thought ". . "(P. 16 ff.).

L. Gilbert, supra

"Most people of the new principle of relativity, ie

RTH] speak, know by its own admission nothing certain

about it, but they "believe" that behind anything phenomenally deep

put no nonsense had 44 "to make a reckless Scheingläubig-

speed contends that mocks all logic and the performance of the largest

Ghosts of the past in the field of mechanics and physics

negated and replaced by phantasms. . . . As a result, the works

Physics of the last decades in theory more and more in a maze

into whose most famous in the history of the impasse relativity

should be in principle 64 (S. 9f.).

"The Misunderstood is always the biggest. . . been mystery,

the humanity bent. Will you succeed, are dark!

Silk incomprehensible! Especially for naturalists! Especially for exact!

And most of all for math! Our mathematicians

had the instinct always her. . . Flourishes that only by thinkers

Meaning, content and weight get, for sacred to Kabbalazeichen

hold, where live divine spells. They are sustained. . .

supported by its spirit which is purely formal, and the

any understanding of the simple but big picture

nature going on "(p.68 f.).

"The simultaneity of events, that enormous con-

troll Act, which we alone still thinking, comparing,

em checking makes a detection possible - the law of the

absolute simultaneity of infinitesimal differences

tials of the moment, the narrowly the past from the inlet

future retires, and we call the present - this brazen comparison

nunftgesetz raises an arrogant professor, to the cheers of other

Professors simply on! 66th . . "This is now now (and here is here).

This remains sacrosanct, the only thing that Erzabsolute, we on the

build: The Here in the moment of now! . . . The ship's captain

takes an exact continuous chronometer on the ride and con-

statiert it (the now) on all the world over. It would be an absolute

Donkey when instead the Einstein che Lichttelegraphie used. 66

"Only the" simultaneity in itself 66 more events is the

Doubt lots, is the fixed point of thinking, physics, mechanics, is

the only absolute. . . is the only steel clue in restless

fermenting vortex, in the chaos of events which we call world 66

(P £ 70).

"Each propagation velocity, ie each ray such. As the

Li chtes, takes place in a medium. . . . owns the media a

some movement. . . and direction in space, so does the beam. . .

these with; he is as it were in a vehicle, on the

he mitfährt. . . . So see the result of the Michelson experiment is -

what Hertz suspected for a long time - easily and naturally. . . .

That's the biggest mistake of men: they ignore a self-

intelligibility to invent a monstrosity to be allowed to 6 (p 84 f).

"Einstein's principle of the constancy of the speed of light

(Bring) the physical phenomenon of light in lawful

Dependence ... ding to a aphysikalischen abstract thought,

a completely empty coordinate system that everybody somehow conceivable

physical property is divested. . . "Einstein's con-

substance can therefore only those F ormelmenschen permanently satisfy the

are unable to exceed a larger group of natural phenomena

see and the various forms of world action in solidarity access

context bring; only those for which "coordinate system 66," "V ek-

tor 6FC fetishes are. . . . The higher mathematics is the fetishism

Modern Physics 66 (S. 106 ff.).

"Substituting". . for the speed c is a infinity,

the result is the old, classic, right N ewtonschen relativity s-

sentence. What does it mean when we set c equal to infinity? The

means that a value c is smuggled in the time distortion,

the seemingly but the speed of light, in reality

a propagation velocity of time pretending. By

Formulas created, all relativists unconsciously, the aphvsikalisehe wonder

C 2f

as if the moment at the speed d in World

space would propagate. This enters the curiosity that the training

propagation speed of the time dependent is of the translational

Speed a the earth as all bodies at all (p 113f.) "

87

"A thing can not itself be unequal, which is the first set

of logic. A beam can not be two relatively moving bodies

or coordinate systems or even an infinite number of one and the same

have relative speed. Because then the beam would simultaneously

two or possess many different speeds. Those who do not

realizes the is not to help 6 6 (p 121).

"Summa Summarum: The Lor en tz -one te in -Minko wskisehe" develop-

cover 46 is a Irrwis chlehre. .•. It suggests the old, famous

Relativity set Newton - Galileo boldly and joyfully face. . . . Be

indicated that in, high wis tific "form placed genius of

But wit 46 (p.123).

A. Kirsch man, aa 0th

The "concept of relativity liable immemorial a certain

misty at indeterminacy of the latest phase of its development

ment that Einstein see RTH, from which the bulk of mankind already

so begins to speak as if Einstein "relativity invented 44 have,

is by no means free. 44

"If you apply the relativity of everything when the Relative

Absolute nothing can be compared, then commits

such a relativistic philosophy - just as that of the radical

Skepticism - - suicide in the moment of its birth. If everything is relative,

then the concept of relativity at least completely redundant 4 4 (S.58f.).

"There can be no maximum sizes. The Einstein's theory

but assumes that this not the case for the speed. you

sets a maximum size of the speed, the speed of light

fixed. thereby negating the principle of relativity as a general real estate

Act, which permits no exception. but it is precisely the speed

ness of all sizes the one that requires the most relativity.

The idea of a speed limit is not compatible with that of the

Relativity of motion 44 (p.72).

Professor 0. Kraus, aa 0. 5 and 7

"See The Einstein special RTH is no physical theory,

it is a GE using absurdities (mathematical fictions)

predissolved sample calculation "(5, p 341).

"They demand (Einstein) that in a comparison of GE

speed with each other any size to speed

always the same size, always exgleicbsresultat same V, always the same GE

speed sunt erschied, namely 300000 km / sec is clear! What here

■ speak, is not only not inevitable, but it is one of

Fundamentally absurd, ie a priori impossible demand that you to

Natural make. •. . When I say your Invarianzpostulat is logical un-

fulfilled, I believe that nothing in reality correspond to it

can and everything is inferred logically from him in thought or

may be fixed on the paper, as a consequence of an absurd pre-

misse / * "The building of special RTH is nothing more than the

Structure of all mathematical deductions resulting from the - in check

absurd - can infer Invarianzpostulat the speed of light. .

It is and remains a deduction from impossible premisses a math-

matic term sealing / 6

"The stability of the bases for comparison is valid. . .

generally granted for fixing the loading

griffes of the measurement. It is part of the definition of the measurement,

that the unit is thought immutable 44 (7, p 29 ff.).

The "intellectual absurdities. . . start with the first words

RTH and increase with each of its stages. . . . The RTH is at best

if a properly dissolved calculation: how must the

"M easurement", ie invoice, the unit of time and space

designed to give the speed of light as invariant? ...

The matter boils down to a variation of the concept of the unit. . . . "

"It is . . . paired with philosophical comprehension

Sufficiency which in the philosophical utterances of most Relations

rights activists is that disgusted me. It's all so far usual degree of

Publicity about rising behavior of a large part of the day and

Trade press that confuses the minds. ... It is the fact that

each quark, which seems to be the theory of the relativists

is greeted with a friendly gesture and Mr Einstein prefaces

receives !!! while a serious criticism is ill-treated. 4 '

"The collapse of the theory is inevitable" {7, p 91 ff.).

Dr. J. Kremer, aa 0. I, 2 and 3

"The" time relativity 44 surpasses all previous. With

the concept of simultaneity of the concept of presence is achieved

shaken, the omnipresence of the world infinity sinks and decomposes

fragmented into loud single-subjective moments without common bond. "

". • • it is . . • the - - albeit unintentional - - merit of the "RTH"

the absurdity of an "absolute relativism 46 to self-contradiction

to have interpretation spanned 44 (1, p.57).

"It knows today by the followers of Einstein himself

not to say what actually the result of the secured e in-stone -

see RTH is. After the one hand it is a physical after

other (eg. as the Einsteinianer H, Reichenbach) a philosophical

Theory, according to Einstein it is neither, but purely phenomenological

menologisch ".

"I do not know if a similar in the history of science

Case of mass suggestion and misleading serious scholar in a

is hardly occurred for possible-held scale. It seems

incomprehensible, as mathematicians, physicists, philosophers, indeed reasonable

ever be such even temporarily convince people

could leave. *. . "(2).

"There are so many theories of relativity * ask a different V,

the setting einthe ory to understand 4 because nonsense can not be

understand. That is also the secret that the mutual

Allegations of .Nichtverstehens 4 of Einstein theory among physicists

and philosophers is based. "

"It is unseemly, between" physical 46 and "philosophical 4,

W to distinguish ahrheit, the Einstein theory within a cookie

half of the area reserved for professional physicists, physical "truth

to back up. It needs no philosophy to an absurdity as such

to detect and discard, but erstän- only a healthy V

de b .... "" That "all measurements are relative ** means that any commonly

measured length is a multiple of a true random selectable, but

invariable unit is, therefore, quite different from the

Einstein see change in the selected unit as a "consequence"

an arbitrary, occurring in thoughts choice of the reference system

by the physicist, by which the whole Matur order of arbitrariness

the positivist physicist is delivered. . . (3).

Professor P. Lenard and F. Schmidt, aa 0. 1 and 2

"We now leave the imaginary train a significantly uneven

make like motion. Here, if by inertia effect s everything

comes in the wake to rubble, while outside everything remains undamaged,

so is, I mean, not a healthy mind another final

want to move, as the it was just the train that jerk with his complaint

motion has changed and not the surroundings. 66

"We want as N aturf ors tend not mathematical supply

investigating permeability or usefulness of coordinate elections

but we want to non-contradictory picture of reality

reach, and in this case, two coordinate systems, one of which

leads to superluminal velocities of material bodies [- Earth's rotation -]

the others do not, by no means equivalent to 66 (1, p.15).

. . one must admit that taste Denkschwierig-

liabilities that are not dictated to by the nature of things, for contradictory

may be naturally held 64 (1, p.21).

"We take a Uräthei of which is everywhere and at the loading

movement of the earth does not take part, while the earth, as each piece

Matter, its own etheric has to fill it with washed-out limit

surrounds and moves with her to. . . . The Lichtfortp flanzung is always

at the speed 3 * 1NC 10 cm / sec and always relative to the ether,

in which the light travels. "(On this hypothesis casual

Declaration by the Michelson experiment - - even with fixed star light - which

Aberration of Lichtwegkrümmung who see C. Miller experiments in

great Erdhöhe.) (2, p 81 ff.)

Professor PF left, aa 0th

"That". . these (the "worldviews") page (RTH) very seriously

is exposed to receiving objections, are now probably everyone at the

check here honestly to a setting other than the endeavor - unfortunately very

spread - the mere uncritical admiration 66 (p 399). "Nothing

is misguided as Einstein called. relativize the concept of time as a

to address epistemological Power 66 (p 407). "In truth

unit is the physical and philosophical time so closely related as

possible: the idea to have both the same. . . . No empirical

Time route can be used as time stretch differently "elapse 66 as the ideal

Time. ... In all this is the impossibility of regarding the time of

a different sized Ahlaufsgeschwindigkcit to speak. Leading

in every respect to absurdity. Because how do you speed

determine different than just re-using the time? It is therefore on

a vicious circle out. This of course is the relativity of

Simultaneity impossible. Because if the time and everywhere

is always the same and it therefore no different "system times 66

are, all temporal distances in all reference frames, the same

Remember: what is a same in terms of, can not regard

Lich of others be pulled apart in time. Of course, the

intended for A Simultaneous B as non-contemporaneous, are measured.

But then only one of these provisions properly, the other neces-

manoeuvrable wrong. The possibility of a variety of time extending it

itself has nothing to do. You must due to the doctrine of

be rejected homogeneity of time ^ (S, 436 ff.).

Professor F. Lipsius, cited above 1 and 2

"The task of philosophy is. . ., By the term again

due intuition. The abstract lenses as consideration can

not be the last solution of the world riddle, the reality is more than

General concept or mathematical formula. All objective knowledge

is thus relative; but science must not be forgotten

that the Absolute anytime the advance se t tion of Relative remains. . . V

"The radical relativism. . . proves to be a double-edged weapon.

He requires us either that we simultaneously opposites for

to hold true, so comes to the law of contradiction, or he

explained . . .the principle of sufficient reason to war! 66 (1, S. 444 ff.).

.... . also the friend of RTH ought to give that a

Account may be performed by perfectly correct, but while

the approach on which it is based, is wrong. And the contradictions

Kraus and others, see the Teaching Einsteins, stuck exclusively

in the conditions. . . The "Beauty 46 a formula system

never a proof of its validity in the real world. *. admittedly

seem some mathematicians to forget that their equations

has inherent sense of well regardless of the symbolism of itself

Tensor in words should be ansdrücken. also not apply this

for all the way, the passes through the bill, yet essential for

its source and its destination. . . . An absurd result. . . becomes

. . . even by the most elegant formula more palatable are not 64

(2, p 5f.).

"Einstein's basic idea (is) in itself contradictory and therefore

impossible. Because the foreign system is undoubtedly one of my own

Spatial and temporal world, because I otherwise his position change at all

could not relate to my world, and the statement is absurd

that in my space and my time in another room and

another time pursue their activity. . . . The scale reduction is neither an

optical nor even a sensuous phenomenon, but the result

a mere Korrektionsrechnung * 6 (p.13).

"Here [in the principle of the constancy of the speed of light], we have

the famous Hexeneinmaleins the relativists: speed of light

less system speed is equal to the speed of light! After

the same logic would obviously also the sound velocity everywhere

be the same, or you could say, the speed of the

Kranich flight is always the same. . . . Possessing but the birds a

different species average airspeed whose

Large, nature is suddenly sailed * determined. But all these speed -

rules have for the real Rela ti vit AETS s atze sense only if

specifying the reference system. Einstein on the other hand makes - a selt-

same confusion of thought - from a relative speed a

"Natural Law 66 and abused so the concept of law, while at the same

time the classical principle of relativity, rather than, as he thinks to supply,

improve and supplement distorted and fundamentally corrupts 66 (S. 16 £).

Einstein's "doctrine revealed. . . as a purely mathematical and formal

Theory, which, far from us the view of a new naturphilo-

to open sophisches worldview, merely reflects the current

unsatisfactory state of science is. She is an internally

contradictory mediation hypothesis without the power to real

Creation 46 (p.18).

"Of the . . . internal logical contradiction in the premises of the

Theory is obscured and so to speak, made mathematically harmless

by the relativity of space and time. . . The in relativity

vation of space and time contradiction contained. . . is in the

Proposition that space and time from the state of motion of the observer

are dependent. But now it is without any doubt the movement that

turn time and space presupposes! . . . This teaching of shortening

of space and stretching the time course is really an epistemological

theoretical monstrosity. It is not the time or empty space

shape can stretch or Matching Caps nzi address, but only the space

and time content such may befall "(S. 19 £.).

"What can not be measured, that is not available to Einstein. . . .

But the danger is obvious that you also get as of [this principle]

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making use, where only the actual limitation of our auxiliaries

medium, so not a theoretical, but only a technical barrier to

obstructed path to knowledge "RTH, the accusation is a

to make such a mistake guilty will not be spared 4 * (p 24 £).

. .The special [RTH] is absolutely the wrong approach. 44 "It's really

also for the one who has grasped the meaning of the theory, because of the unnatural

Thoughts contortions that she expects of us, not always easy, their

Meaning also unmistakably reproduce 44 (p.27). ,, simultaneity

"Can not define 44, because it is a directly with

our consciousness of time set fact. 44 ". . . "The world in which we

live and work, is only one whose events we therefore

also need to mentally classify a single time course 44 (p.30 f.).

". . . and the controversy over the experimental bases. . . is still

not finally settled. . . . The previous experimental base

much too narrow to her a natural philosophical building equal to the

see Einstein Richer! 44 (36).

"Inertia and gravity can only exchange, as long as you

homogeneous gravitational fields takes into account. An absolutely homogeneous

but the gravitational field is a mere thing of thought. . . . The man in

Box has. . . principle very well the possibility to fit

anges told determine experiments if his observation room in

a gravitational field suspended freely or, corresponding to the apparent direction of fall

oppositely, attracted by an unknown force continued ge 44 (p 115).

"Has the natural sciences. . . not only the task of the appearance

to tackle computationally calculations, they should us a satisfactory

Overall perception of space and time from outstretched reality

Offer. The RTH gives us contrast countless, seemingly vertically aligned

legitimate worldviews / 4 ". . . The general RTH. . . for our natural

scientific W eltbild irrelevant. . . has only the value of a

interesting mathematical speculation and is about physical

-radically considered, beyond true and false 46 (p.117).

"The gradual dissolution of the Publication Complex [moving

Train - Earth] requires that we to-the rest or motion of the train

next to the ground and not in a RECOVERY ig elected another coordination

coordinate system relate. That is completely inserted into dynamic relationship

unambiguous facts, we by no arbitrary "position -

can distort but most - laying 44 change. 44 "single

steins fusion of gravity and inertia gives us although it

a new unit, but the loss is expected to be greater in this case

than the expected gain 44 (p 120).

"So [contradictions between the performers Einstein: Wintemitz,

Schlick, Thirring] entertain the builders of RTH already together in

Disputes, where it applies, the first foundations of their Babylonian tower

to build. 44

"In addition, however, arises from what has been said [about the rotating

Disc] the compelling conclusion that the Special and General

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RTH are based on conditions that each absolutely un-

are compatible because the first from the standpoint of their statements in

moving systems are not moving, the second theirs from the Stand

points of co-moving observer from making 44 (p 127).

"The non-Euclidean space is a fiction 64 (p.129). "In reality

speed there is only flat and curved surfaces, not one way or another

kind, Rooms 6 66 (p.131).

"While comfort is the layman who shy away from the non-Euclidean

jump cauldron because he fears with right here the ground

losing underfoot, like it, with the evidence that the

Structure of mathematics About indeed, inconceivable 6, but probably conceivable

bar 6 are - of course on a professionally trained

Think ! However, since the spatial intuition qualitative a fact of consciousness

tative nature is so unimaginable space is also unthinkable. . . .

The term . . . can never ask something that the laws of our pre-

filters # contradicts so unite two V orsteliungen that compared to

side to lift, as in the pseudo-concepts of the square circle

the crooked space or intersecting parallels would be the case.

Therefore, when recently a supporter of RTH, perhaps a little too opti-

tic, said that the new conception of space and time have exceeded themselves

naturalized surprisingly fast, so remains to be seen if not awe

before the priests of the new faith and their esoteric language

many heads forced upon a sacrifice of the intellect has 46 (p 136).

" ,In reality* . . . there is no Riemann see space. . . . Gives

it. . . also no space se% so we can not but help but

an objective order of things or events. . . presuppose

to have as their adequate representative. . . Only the Euclidean

can apply space 66 (p 141).

Professor St. Mohorovicic, aa 0. 2

"Mohorovicic has the merit in a series of mathematical distance

to have shown treatments that, if you need to go, a

to devise RTH, equating a lot, namely endless

can absorb share special theories of relativity; as well as in other cases,

can be just the one world of nature endless possibilities

possibilities of mathematically formulated W nits and oppositely of physics

put. Physicists, M. by its very simple formula for

the so-called. redshift of Sp EKTR aUinien open eyes about

that the RTH is not necessary to provide a red-shift of the spectral lines

theoretically derive 66 (p.5, foreword by Gehrcke).

I have succeeded in recent times, in a very elemental way the

Lorentz equations see Transformatione zurückzu see the Galilei -

went where the Newton see addition law of Geschwind ig ties applies. I

have shown simultaneously that. . . the two observers who compared himself

move together, in W irklichkeit the N Newton see measure absolute time. I

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have emphasized that all inferences zuweichen us dieEinsteinsche

special theory leads 5 only a fiction are "(p 26, n. 25).

,, •. . that of the experimental confirmation of the general

my RTH can be no question, the more so as well

other theories to the same results come. "[One way

looking at Gerber, Seeliger, Reichenbächer, Wiechert] (p.42).

"The Einstein see RTH is. . . only a link in the series of purely

speculative mathematical-metaphysical theories "(p.45).

"The hypothesis of the constancy of the speed of light for all

Observers, which is played with a constant relative

Speed moving v, in the event that no gravitational field exists

(Or in a homogeneous parts such field !, is the darkest

Funct around special RTH "(p.62).

"The majority of relativists are victims of a suggestibility

gestion; no one wanted to run the risk, possibly, their own com-

to show ignorance, and has the other GE with itself

pulled. 44 [Note on Gehrcke] (p.63).

"The RTH is satisfied only with the mathematical description of the

Natural phenomena, and they agree to forgo any physical explanation.

The character of this theory is purely formalistic -phänomenalistisch. . .,

without taking a consideration of the reality. Rightly

says H. Dingler: confusion comes about only when the mathematician

thinks he can drive in this way physics 4 "(p.67).

"The axiom of Einstein's theory that no excellent

Coordinate systems exist and that all coordinate systems in the

Description of natural phenomena are equivalent is unsustainable

bar. . . . In physics, some coordinate systems. . . an advantage

before the other; if we others. . . use, we find unnecessary

mathematical complications. This occurs best when the rotation

to light / 4 "Einstein is. . . inconsistent because it [with the finite

World] has introduced a system of inertia, and it uses

the room ... in Newton see sense 44 (p.68 f.).

"The Einstein see RTH leads us to conclusions which serious a

Naturalists can accept under any circumstances! . . . The A-

stein's theory. . . is only an ephemeral theory. . . . Also

A, v. Vineyard is ... come to the conclusion, represented the theory

to rot slowly on the horizon. . . . The relativistic ship sinks,

and many, including excellent relativists jump already in the

Lifeboats into; many, including the first physicist to sing,

you already the grave singing 44 ... "JH Ziegler writes that it

nothing better:. . . as the world's large W ahrheit for loading

consciousness bring that every great new truth something simple and

must be generally understandable. The difficulty of understanding a thing

is almost a criterion for their inaccuracy. Every truth is

required a clarity and therefore no darkness, how the loads

schrobene relativity 4 44 (page 71 ff.).

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A. Nyman, lc

"There are in our time barely two systems of thought, the larger

Opposites to each other than the theory of relativity and philosophy

. Bergson "Bergson" work:, Duree et simultanéité. A propos de la

theory d'Einstein 4 ... is not only because of interest, because they GE

know basic requirements of relativity adding hard. *.

. . significant agreement with the fiction doctrine and Hans

V aihingers As -Whether -Teaching in the interpretation of the theory of relativity. . . , 44 data

with return "to the more cautious interpretation. . ., The Lorentz. . .

had given. . . "Both equations" (c + v = e and c - v = c)

"Are algebraically equal offensive. anyway Will be on any of the top-

mentioned principles 44 (mechanical relativity principle and postulate

constant speed) dispense ", then adjusts the voltage

characterized by the fact that instead the conventional concepts time

and space changed 44 (S. 178 ft, 180, 182).

"How does the multiple Einstein are cautious times. . . From? are

they really the same sense as the "Fundamental time 44," la durée 44,

regarded as really? Bergson answers: no. They are artificial,

mathematical time fictions and, properly understood, confirm the inputs

stein's theory better than any earlier the common Ann imitate

one for all common, universally valid time. 4 "" And he warned

vigorously against these perspective, mathematical decision taken off

Press W irklichkeiten to see 44 (pp 190, 194).

Professor M. Palägyi, aa 0th

"Union 4 of space and time. . . This idea of Palägyi, in

its full extent and developed with dazzling presentation. . .,

has become the basis of subsequent RTH. One would think Palägyi

would be the philosophical founder of RTH for followers of all

become world captivating doctrine, but this is not the case. Palägyis

sharp intellect was the impracticality and from scratch

Missed the RTH clear and he moved early on in an opposite

Position to her, although he was actually the spiritual father of the theory.

He commented to me on several occasions expressed his displeasure that

his ideas about space and time by relativity theorists. . .

have been so distorted and he could plenty about, naivete 4

Computer scoff that the disparate nature of time and space

blur sought. , Mathematics does not protect against folly 4, so ran

He once his listeners. . . to. . . . If again the idea of a

Evolution has prevailed in science, then is

perhaps the question be used if it has then been people

despite all suggestive fads. . . her calm judgment

had preserved and its clear view of the large line of progress.

Such was Melchior Palägyi "(p Vf., Foreword by Gehrcke).

"Must supply my view the autonomous and polar

different nature of time and space are emphasized more sharply,

the more we feel pushed us both to a single double

Regulation of the phenomenal world together synthetically. Because only

the polar V erschiedenheit of time and space compels our minds,

to regard them as necessarily belong together. but ... Who space and

leaves time sink to indiscriminate shadow that comes un-

noted there to confuse the two concepts of order to one another,

ie two fundamentally different conceptual content identical with each other

fy, which apparently involved a logical contradiction "(p.35 f.).

"Curiously goes. . . Einstein see RTH directly thereon

out to banish the concept of the ether from the theoretical physics

and thus just destroy their finest achievement. "

"However, there is a kind of philosopher who" Pfaänomenalisten "

love not tolerate the concept of substance and the ether

want to reference, including the matter of physics, but this kind of

Thinkers comes a barren, skeptical stressed word

contending never beyond. Namely, it is a pure impossibility of a

imagine moving without one would have to assume a something

moving, because this thing is yes, at different times

occupies different places. 44

"The doctrine of unity of space and time exists. . . not that

we erschiedenhei th the V of the two orders, but their com-

deny dependency. 44 "Monistic thinkers talk usually

for committed fundamental 'differences in nature and in

our concept of content exist, successive "due 44 and

thus the fundamental distinctions that were in the initial

themselves are forced to fix, afterwards completely reversed to

do. . . . Destroying the existing in nature basic comparison

differences of and thus also improve the quality of human distinctiveness

assets, the human mind to. *. . By contrast, seems

us to pass the main task of human thought in it,

existing and successive irreducible Grundve r different ene

to investigate matters and a deep insight into their possible compared

sided conditionality or correlation, so their actual unity

to win 44 (S. 77 ff.).

"Well never was in mystical-mathematical garb

occurring doctrine aroused such a stir, so much enthusiasm and

Fanaticism course just awakened in those who by a word her

understand. But there are increasing also critical voices, especially in the

Circles the most level experimental physicist who those alleged sawn

seriously pull importance of relativity in doubt. You mean,

that the so-called. Relativity thought is far from the physical

to unify doctrine, on the contrary, carry this idea to

Spirit of uncertainty and doubt in the exact nature of research,

yes he Decompose the basic terms thereof, without viable on its

to mold body 44 (p 84).

7 Einstein

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Dr. L. Ripke-Kühn, cited 0th

"Einstein RTH, so right or wrong their individual lists

may have special physical and research results, as

Overall thought form untenable because the concept of theoretical

rule actually destroyed by a relativism which

Themselves have buried under the debris. ". . But

this is not the beginning of a new way of thinking, this is the

End of all thinking! ". . I maintain that three quarters of the difficulties

culties and mistakes would have been avoided if our physical

rule Searchers certain basic concepts, differences by category

and space-time form of phenomenal and real, of phoronomischer and

dynamic movement had made really clear / 6. The sphere

the purely phenomenal that knows no truth in the strict sense

and may know. . .eats to the sphere of reality. In order

our science either, despite scholarly detours to a primi-

tivsten standpoint thrown back, or what the effect on the same

comes out, decomposed in such a position again where the issue

is the truth meaningless. Did Einstein overthrew, absolutism '',

he has thrown the scientific truth, the theo-

theoretic concept of reality in its necessary

Uniqueness smashed. ". . we must assume,

The observed that is also determined 6, independently of one

Position, level, absolute \ Otherwise we draw water in a sieve and

can give at all our thinking. If something does not only supply

may appear resigned, but also se ^ different *, 4,

itself, is relatively Ä, ie depending on the position and condition of loading

schauers, - not only in the dimensional conditions, but in fiscal

measured itself, ceases all thinking. The rest is skepticism,

V erwirrung, relativism "(p 4 ff.).

(Man) "seventh physical theorists jealously fully the branch off

sawing, on which he sits himself, ie. . . to the basic conditions of

theoretical thinking bound researchers the foundation of all theoretical

destroy matic determining at all: it is the a priori conditions

tion of uniqueness, more precisely, the identity of the intended

Natural processes to which the interpretation effort. It is about . . .

to the abandonment of the last unablösbaren the theoretical principle,

that the Relevant standards, in fact 4 specific to only one

Way to behave. The equivalence principle [of the General

RTH] Einstein is the slap in the face of the theoretically necessary

and a priori given notion of truth. . (P.8).

"Einstein misunderstands above all the basic sub

departed from Phoronomis brass and Dynamic as in Kant

is already carried out in exemplary fashion,,. . the real basic evil

the arguments. The equivalence and V ertauschbarkeit two

Operations can usefully at all only as a phenomenal, pure

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Phoronomisches be understood, their application on Dy-

cal is the typical offspring of this confusion of terms, therefore

back to Kant and its clear distinction from Phoro-

ergo- nomic and Dynamic, pure movement and the

Forces (energies, causes) of the movement, ie, arrival

schauungs- and categorical forms 4, of Phänomenali-

ity and reality in strictly valid sense! "" Einstein RTH can

neither theoretically nor empirically considered flawless

become. Theoretically, not because they self-annulment of a theory

ever results. . . . Empirically not because, as most of the

Cases itself admits, its conditions are not the de facto

table given empirical conditions can really check,

whether it was that not the speed in question, it was that not

the necessary materials can be applied, the present to him theoretically

to show which they express effect. "" A not only relatively 4 interpretable,

but depending on the view, relatively "behaving reality in

of the operations so or may behave differently. . is.,

equally absurd in itself, as a relatively existent (at relative)

Truth "(p 11 ff).

"The relativity in terms such as gravity, etc. wrestle hineinh is,

the entire experience in kinematics. . . transform. . . . The dynamics

(Sets) substantive motion, original forces advance. "[D. Avail.

aimed primarily at the General RTH.] "This limit for real

^ Motion 4 that therefore then also a real cause and effect, ie

theoretical real valid consequences must not be exceeded by the RTH

be "(p.15 f.).

"The limit of RTH is thus the force. 44 "The theoretical

table Reale must. . .be clearly determined. ... Who on this entry

waived ambiguity, to dispense with the science in their

Core "(p 18f.).

"The mere appearance of two may in fact opposite

Reasons arising; the knowledge can only assume a basic 4

(S. 21).

". . . we are interested in ... not at all, think wasderBeobachter

can - but he. . . may think .... but seriously target

The (real) cause, the one or the other: be claimed

be * . so Einstein continues flat so the fatal blow to

the fundamental law of all thought that some one and only one

may cause that observation does not, depending on the

changes (p.23 f.).

".that The observer is not readily. . • may differ

(Oh gravity or acceleration) is, of course, but, with

Another 4 he must decide and may be different, otherwise there

He made the phenomenal range not out 4 *

(P.37).

7 *

99

Dr. JE. Thedinga, aa 0. 1

"When the measurement of the speed of light on the ground always the

same size results, this can not mean anything else than that just

the process of light propagation is the Earth system belongs,

so that when the optical operations of any dependency

Speed of light must consist of the ground motion. In the

Light source can not be according to experience this dependence, consequently

all, they must be to look at the light-receiving body. . . .

From the moment where a hurrying to Earth beam the sun

leaves, it is the Earth system belongs, indeed without the hirde would that

Beam not be put into operation. . so that the desired type

speed enters into the light beam. . . . Attraction theory. *.

This theory is consistent with the principle of relativity, according to which

the light propagation as any other moving operation only one of

Bodies dependent. . can be . . ., While the RTH Einstein

the standards of our thinking itself must change to this

to achieve harmony. With such a method but undermines

Theory the soil itself, on which it stands; because only provided

tion of U numstößiichkeit these standards could the theory the sawn

setting provide their accuracy, ie ormen in the north of our thinking

be joined chain of conclusions deduced that their way of

correct one. The RTH thus makes use of this proof of an agent,

its suitability for themselves in doubt pulls * 4 (p 20, 36 £.).

Professor B. ¥ s in-stone, cited above 1 and 2

"As in all the provisions only of radiation is the speech and of

Determination of simultaneity by radiation, may of these

Theory as nothing be concluded that refers to something else

on beams and on-time control by radiation. Therefore, when a

said of the consequences of Einstein that when a clock with a

second clock located at a different location at the same time absolutely

(Synchronous) goes, the simultaneity is lost as soon as this watch

has moved toward the second clock, so this may mean impossible

the clock has actually changed its course due to the movement, hereinafter

has remained, it means only that the relative simultaneity, with rays

controlled, not by the movement of the clock to the second clock

is present, the absolute remains. ". , A rod relatively

considered (is) considered absolutely not unlike a bar. . • *

In short, it knüpien on this theory no physical

Conclusions, but only formal-geometric. . . (1, p 156 et seq.).

"So a ball goes in the relative system for a stationary observation

eighth over in an ellipsoid of revolution whose From plattung and situation

constantly changing. To conclude from this that such behavior also

real body is concerned, is not permitted. ... It's a mathematical

Transformation. ". Only rays value wins if a

observer at rest, the time and length of the moving beams so

is forced to reckon, as assumed. So also are all those

Details, such that bodies moving the stationary observer even

may appear infinitely flattened and stretched into infinity,

namely when the bodies move with the speed of light, very

idle, it concerns not the body. . . . Similarly with

a corresponding conclusion with respect to time. . . . The watch as

Mechanism is not retarded, only the controls. . . by means of

show rays. ". a lag on. At the starting point back

swept, is found by the same control again synchronism 44

(2: 286f.).

"It is this (relativity) and theories of science much

better to those limited to what they can be. none

Naturalists it occurred earlier, in the fact that the solution

a differential equation contains arbitrary constants, something else

be seen as a mathematical result which has to follow from the way in

as we have just set up the differential calculus. But what has

this particular mathematical device with worldviews

do? "(2, p 309).

H. Wittig, aa 0th

"In summary GE briefly about the validity of the special RTH

says she axis of the physical analysis as a theory of ^

sluggish observations. 4 . . apparent, as a consequence of

Discovery of finite energy velocity c, the corresponding

Natural processes are perceived differently in time in the self-system,

as they happen to be in the third-party system. ... As before, however,

remains that from abstract kinematic, ie, movement *

geometric observations not really material, so

can yield material processes. Observation Moderate shifts

the events are not physical F ormänderungen of things

the outside world, neither in time nor spatial or material

Respect. "

"There is only one physically real time" (p.37 f.).

"The observer | in the box of the general RTH] could. . .

actually [by an "accelerometer" j already within its

own system realize that his movement ["up" j no

Gravity movement. "" The general RTH does not entail

compared to any general physical relativization

relative motion systems "(p 51).

"GE The resting in his field generating gravitational ether

therefore suffices all the requirements, which the physics aut reason of ER-

must provide results of various optical tests on him. And

what is most important, it satisfies them, without the need for a relativity

requires vation of time and space in various systems

would. "" The classical principle of relativity has general application

for all physical processes. "

"The only attempt of establishing the light constancy principle

led, has been ausgelührt in a moving force field and not in

a slow idle system, such as the abstract Zugbeispiel one showed. . /

"Is for the physics no occasion of the adoption of, ether 4

refrain. Would the science on the basis of purely formal decision

developments the airwaves cancel altogether, it would have made substantive

but engage reasons again to another auxiliary hypothesis to the

Contiguous action ever being able to explain them to the place of

introduced ernwirkungen Newton see F has "(p.59 f.).

Professor Th. Pulling, aa 0.2

"What . . . the actual foundations of Einstein's theory

concerned, so these limited initially to the Michels on see

V beseech and some other exp erimentelle observations. It is very

doubtful and is just by many respected physicists

doubted whether these meager attempts employed persons very many explanations

can be enough to see the Einstein hypothesis to support building. . . «

But even if one assumes that all. . . Offenses in another

provide observations figures that look entirely by Einstein

Theory coincide, so this is this would not prove.

The history of physics urges in this respect to the allergen

greatest caution. . . . Mathematically correct development of formulas

and confirmation by individual observations so is not always sufficient,

finally to prove the correctness of a theory. Especially is

always to think of the possibility that the use at issue

Theory contains individual correct assumptions, and that this content of

right assumptions you to some, even many confirmations

helps that it but in its totality because of numerous hinzu-

Candidate false assumptions and conclusions is inaccurate. Just

in E in-stone see theory in which successive many assumptions

grafted, can be expected with this possibility to a large extent.

One should therefore also provisionally always strictly between the individual

Einstein see different assumptions and very careful of

the theory as a whole speak. Right has since also in the

broken recent years more and more convinced path that

relativity question ever not only a physical

or even only is mathematical problem, but first in the last resort

heard the Forum of epistemology and thus of natural philosophy.

It is highly remarkable that just such an excellent physicist

as Lorentz these epistemological character only recently

herv or lifted and the other Einstein see hypotheses provisionally

rejected. "

[For box test:] "If we were the F allbewegungen the body

on Earth on an accelerated upward movement of the observer

traced or wanted this one outside-the-ground observations

do eighth, we should, as everywhere in the world such case movements

are observed, the assumption can be made that the earth through

apart mysterious forces of the fixed stars in all directions

am torn what but just really is not the case. In the overall

complex our findings therefore be seen only the view of the observations

achters in a box, after which the case through an attraction

of any kind on the part of the earth takes place, however - despite the absence of

Differences of measurement results - not on an expedited

Movement of the box. . . based upward. "

"For r e s kenntni the ory, there will always be important to

to reach a minimum of relativity. We see it as a

Progress, if I, instead of the relative movement of the landscape

I observe from a moving train from the less relative

my train set; We consider it as a new step forward if

I note that the train at the same time the rotation of the earth around itself. . .

(Etc.). . .participates. I'll get it. . . Never hold a final off

absolute movement, but for the epistemological position is

but clearly the direction in which the knowledge is progressive. Also

from this point we come to the conclusion that

of an equivalence of different relative viewpoints

can be no question. "

v, Against the meta geometric character of physical space

is still objected in particular that the structure metageometrischen

and sets initially only are logical-algebraic fictions

for the "pure" mathematics may offer great interest, their spatial

impor- tance and their significance for the N aturwirklichkeit but

is quite doubtful. "

"It should be. . . finally only noted that just recently

also known physicist in increasing numbers Einstein's arguments

doubt or directly reject "(P. 87 - 91).

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