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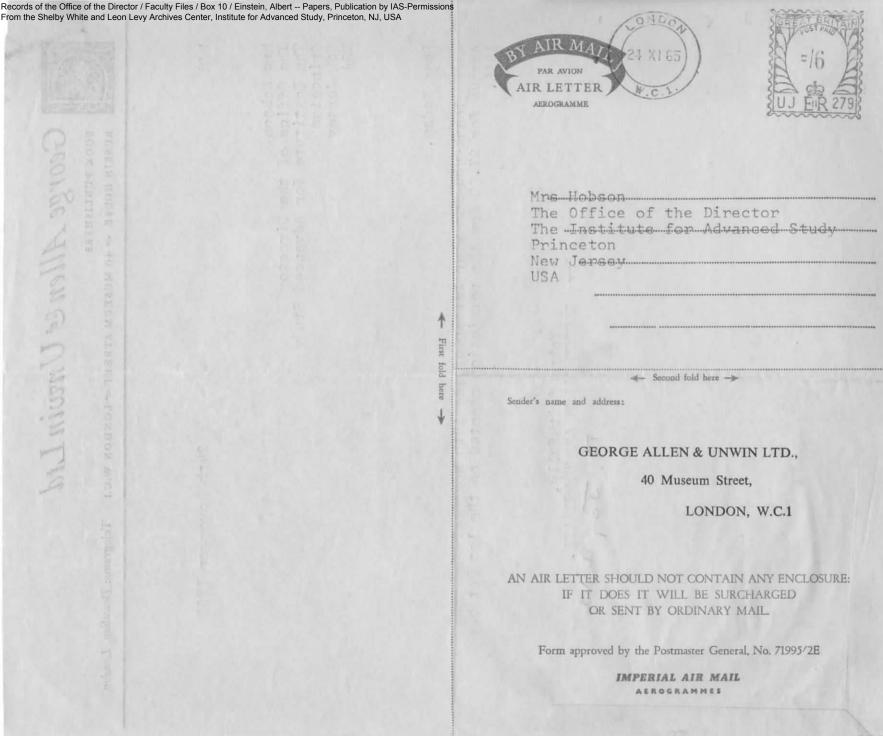
ROBERT OPPENHEIMER. ESQ. THE INSTITUTE FOR ADVANCED STUDY. PRINCETON. NEW JERSY. U.S.A. 1ST JUNE 1965.

Dear SIR.

On 11TH SEPT. 1956 we granted you permission to reproduce extracts from the undermentioned books in a work which you had in preparation. We cannot trace that we received the fee of \$7.00 for which we asked and we shall be glad to know whether you have yet used this material. If payment has been made through someone else would you please let us know.

> Yours faithfully, for GEORGE ALLEN & UNWIN LTD., K.A.M Alshatt

WHERE IS SCIENCE GOING.



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George Allen & Unwin Ltd

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RUSKIN HOUSE \$\$40 MUSEUM STREET \$\$LONDON W.C.1 Telegrams: Deucalion, London

MJH

24th November 1965

Mrs Hobson The Office of the Director The Institute for Advanced Study Princeton New Jersey USA

Dear Madam,

bhank you for your letter of the 19th November and your cheque for \$7.00 for the permission granted on the 1st October 1956.

Yours faithfully, for GEORGE ALLEN AND UNWIN LTD. Records of the Office of the Director / Faculty Files / Box 10 / Einstein, Albert -- Papers, Publication by IAS-Permissions From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

INSTITUTE FOR ADVANCED STUDY

PRINCETON, NEW JERSEY

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19 November 1965

George Allen and Unwin Ltd. 40, Museum Street London, W. C. 1 England

Gentlemen:

On October 1, 1956, in response to our request for permission to reproduce extracts from WHERE IS SCIENCE GOING?, you wrote saying that you were prepared to grant the permission on payment of a fee of \$7.00. At that time our projected publication of the collected scientific writings of Albert Einstein was in the preparatory stages, and no publication date had been set; we therefore did not then send you the \$7.00 fee. We are sending it now, and would appreciate confirmation of your permission. For your convenience, I am enclosing copies of our form letter.

Sincerely yours,

(Mrs. Wilder Hobson) Secretary to the Director WHERE IS SCIENCE GOING?

Prologue, pp. 7-12 of M. PLANCK: Where is science going? New York, Norton

Epilogue: a socratic dialogue, interlocutors, Einstein and Murphy. pp. 201-213 of MAX PLANCK: Where is science going? New York, Norton 17 September 1958

George Allen & Unwin Ltd. 40, Museum Street London, W. C. 1 England

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Attention: K. A. M. Abbott

Gentlemen:

In response to your enquiry of August 21st about a fee of \$7. which you asked when giving permission to reproduce extracts from WHERE IS SCIENCE GOING?, this is to let you know that the material has not yet been used. The publication in question is the collected scientific writings of Albert Einstein. It is still in the preparatory stages, and no publication date has been set. We have noted that, should the material from WHERE IS SCIENCE GOING? be used, your permission is given on payment of the fee of \$7.

Sincerely yours,

(Mrs. Wilder Hobson) Secretary to the Director ecords of the Office of the Director / Faculty Files / Box 10 / Einstein, Albert -- Papers, Publication by IAS-Permissions om the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

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PU/JS

1st October, 1956.

Robert Oppenheimer, Esq., The Institute for Advanced Study, Princeton, New Jersey, U.S.A.

Dear Sir,

We have unfortunately mislaid your form letter requesting permission to quote a passage from WHERE IS SCIENCE GOING. We are however prepared to grant the permission you seek for inclusion of this material in your anthology on Albert Einstein, on payment of a fee of \$7.00 (seven dollars).

> Yours faithfully, for GEORGE ALLEN & UNWIN LTD.

Phum



W·W·NORTON & COMPANY · INC · FIFTH AVENUE · NEW YORK 3.

September 10 1956

Dr. Robert Oppenheimer The Institute for Advanced Study Princeton New Jersey

letter Sent

Dear Dr. Oppenheimer:

I am returning your request for ppermission to reprint the Einstein material in Max Planck's WHERE IS SCIENCE GOING. Our rights in this book have been returned to the English publishers Messrs George Allen & Unwin Ltd., 40 Museum St., London, to whom your request should be addressed.

Very truly yours, Katherine Darna W W NORTON & COMPANY INC. anard



THE INSTITUTE FOR ADVANCED STUDY

PRINCETON, NEW JERSEY

RECT 7 1956

OFFICE OF THE DIRECTOR

4 September 1956

W. W. Norton and Company 55 Fifth Avenue New York 11, New York

Records of the Office of the Director / Faculty Files / Box 10 / Einstein, Albert -- Papers, Publication by IAS-Permissions From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

Gentlemen:

The Institute for Advanced Study is planning to publish the collected scientific papers of Albert Einstein. In laying down general policy for this publication, we established an advisory committee consisting of M. Born, M. von Laue, W. Pauli, and H. Weyl[†]. Dr. Valentine Bargmann, associate professor of physics at Princeton University and a former colleague of Professor Einstein, is acting as general editor of the scientific papers, and the Princeton University Press will publish the volumes.

I am writing now to ask you to approve inclusion in our edition of the scientific papers of the items on the attached list. We are aware that the Estate of Albert Einstein is contemplating a complete edition of Professor Einstein's writings. Our project is entirely separate from that, and will include only published, scientific writings.

I am hopeful that you will approve the inclusion of this material in the definitive collection of Professor Einstein's scientific writings. Please sign below and return to me one copy of this letter.

With many thanks, and very sincerely,

Robert Oppenhamen

Robert Oppenheimer

Approved:

Publishing Firm:_____

Date:__

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7 November 1956

Johann Ambrosius Barth Leipzig C L Salomonstrasse 18 B Germany

Gentlemen:

Records of the Office of the Director / Faculty Files / Box 10 / Einstein, Albert -- Papers, Publication by IAS-Permissions From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

> Thank you very much for your letter of October 5th. We are grateful to have permission to reprint those of Einstein's scientific writings of which you hold copyright.

I have referred your request to take over the distribution of this publication in Europe to the Princeton University Press, which will publish the book in this country and distribute it here. They are in principle disposed to respond favorably to your request, but believe that detailed discussion should be postponed until the work is further along, and costs and markets can be better estimated. They are not at this point prepared to commit themselves with regard to this matter.

Very sincerely,

Journal and book

Robert Oppenheimer

Copy to Mr. Herbert S. Bailey, Jr. Princeton University Press

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November 5, 1956

Dr. Robert Oppenheimer Institute for Advanced Study Princeton, New Jersey

Dear Dr. Oppenheimer:

Thank you for sending the copies of the letters from Johann Ambrosius Barth concerning the edition of the published scientific writings of Professor Einstein. I am glad that Barth has given permission to include the Einstein material in the edition. I think it is quite possible that suitable arrangements could be worked out for Barth to publish the edition in Europe. but I would not want to be committed to this in advance. I think it would be best to plan to go ahead with the original edition to be issued from Princeton University Press, and we shall be very glad to take up with the Barth firm the question of their doing the European edition. Obviously the question of the European market for this book is an important one, and we ourselves are well equipped to sell the book directly in Europe. At the same time, if the Barth firm is prepared to pay a proportionate share of the cost, I should think it would be appropriate for them to have the European market. I hope the matter can be left open, and I shall be glad to take up the question with the Barth firm when costs are known and a definite arrangement can be settled.

I hope the permissions are coming in without difficulty.

Sincerely yours,

W. S. Sailey Jr. Herbert S, Bailey, Jr.

HSB-B

Rough translation (letter of 10 October 1956) Refers to typographical error in letter of 5 October.

Requires consideration by m Bailey + RO. Requires reply.

Letter of 5 October.

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> Barth had the intention to reprint Einstein's papers as far as published in his periodical. However, in consideration of our edition, he will not do it, and he agrees to the reprinting of all contributions that we are going to reprint. However, he would welcome it if we would check up on whether or not he could be the agent for our edition for <u>Europe</u>. "You will understand that in consideration of the above explanations, we are very much interested in having our firm having some kind of connection with this reprinting." Awaiting our reply.

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JOHANN AMBROSIUS BARTH CURT KABITZSCH · HERMANN MEUSSER · LEOPOLD VOSS

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The

Institute for Advanced Study z.H.von Herrn Prof.Dr.R.Oppenheimer

Princeton, New Jersey

Sehr geehrter Herr Professor !

In dem Ihnen zugegangenen Schreiben vom 5.d.M. ist leider ein Schreibfehler enthalten, der zu Mißverständnissen Anlass geben kann.Ich übersende Ihnen als Anlage ein zweites Exemplar und bitte Sie, das erste zu vernichten.

Mit der Bitte, die Bemühungen freundlichst zu entschuldigen, bin ich mit besten Empfehlungen

> JOHANN AMBROSIUS BARTH ppa. 7. Selector

1 Anlage.

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Dikt.: Sch Masch.: 0

The Institute for Advanced Study z.H.von Herrn Prof.Dr.R.Oppenheimer Princeton, New Jersey

Sehr geehrter Herr Professor !

Mit Ihren beiden Schreiben vom 4.9. ersuchen Sie mich um die Genehmigung zum Nachdruck des Geleitwortes von Albert Einstein zu dem Werk

Reichinstein, "Grenzflächenvorgänge in der unbelebten und belebten Natur"

und der Arbeiten, die von Albert Einstein in den "Annalen der Physik veröffentlicht wurden.

Ich darf dazu bemerken, dass ich mich selbst mit dem Gedanken getragen habe, die von Albert Einstein in der Zeitschrift veröffentlichten Abhandlungen nachzudrucken, weil seine grundlegenden Forschut gen zum weitaus größten Teil an dieser Stelle veröffentlicht wurden. Mit Rücksicht auf Ihre Ausgabe will ich davon absehen und mich mit dem Nachdruck aller von Ihnen genannten Beiträge einverstanden erklären.

Ich würde es aber sehr begrüßen, wenn Sie prüften, ob mir der Vertrieb Ihrer Ausgabe für Europa übertragen werden könnte. Sie werden verstehen, dass ich mit Rücksicht auf die obigen Darlegungen Wert darauf lege, dass meine Firma mit diesem Nachdruck in irgendeiner Form in Erscheinung tritt.

Ihrer freundlichen Stellungnahme zu meiner Anregung sehe ich mit Interesse entgegen und bin

mit vorzüglicher Hochachtung

JOHANN AMBROSIUS BARTH ppa. F. Schuler GRENZFLÄCHENVORGÄNGE IN DER UNBELEBTEN UND BELEBTEN NATUR. . .

Begleitwort. D. REICHINSTEIN. Grenzflächenvorgänge in der unbelebten und belebten Natur. Leipzig, Barth. Records of the Office of the Director / Faculty Files / Box 10 / Einstein, Albert -- Papers, Publication by IAS-Permissions From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

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JOHASN BARTH

ANNALEN DER PHYSIK

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Folgerungen aus den Kapillaritätserscheinungen. ser. 4, vol. 4, pp. 513-523.

Thermodynamische Theorie der Potentialdifferenz zwischen Metallen und vollständig dissoziierten Lösungen ihrer Salze, und eine elektrische Methode zur Erforschung der Molekularkräfte. ser 4, vol. 8, pp. 798-814.

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Kinetische Theorie des Wärmegleichgewichtes und des zweiten Hauptsatzes der Thermodynamik. ser. 4, vol. 9, pp. 417-433.

Theorie der Grundlagen der Thermodynamik. ser. 4, vol. 11, pp. 170-187.

Allgemeine molekulare Theorie der Wärme. ser. 4, vol. 14, pp. 354-362.

Uber einen die Erzeugung und Verwandlung des Lichtes betreffenden heuristischen Gesichtspunkt. ser. 4, vol. 17, pp. 132-148.

Die von der molekularkinstischen Theorie der Wärme geforderte Bewegung von in ruhenden Flüssigkeiten suspendierten Teilchen. ser. 4, vol. 17, pp. 549-560.

Elektrodynamik bewegter Körper. ser. 4, vol. 17, pp. 891-921.

Ist die Trägheit eines Körpers von seinem Energieinhalt abhängig? ser. 4, vol. 18, pp. 639-641.

. Eine neue Bestimmung der Molekäldimensionen. ser. 4, vol. 19, pp. 289-306.

Zur Theorie der Brownschen Bewegung. ser. 4, vol. 19, pp. 371-381.

Theorie der Lichterzeugung und Lichtabsorption. ser. 4, vol. 20, pp. 199-206.

Prinzip von der Erhaltung der Schwerpunktsbewegung und die Trägheit der Energie. ser. 4, vol. 20, pp. 627-633.

Eine Methode zur Bestimmung des Verhältnisses der transversalen und longitudinalen Masse des Elektrons. ser. 4, vol. 21, pp. 583-586.

Plancksche Theorie der Strahlung und die Theorie der spezifischen Wärme. ser. 4, vol. 22, pp. 180-190, and p. 800 (Berichtigung).

Gültigkeitsgrenze des Satzes vom thermodynamischen Gleichgewicht und die Möglichkeit einer neuen Bestimmung der Elementarquanta. ser. 4, vol. 22, pp. 569-572.

Möglichkeit einer neuen Prüfung des Relativitätsprinzips. ser. 4, vol. 23, pp. 197-198.

Bemerkung zur Notiz des Herrn P. Ehrenfest: Translation deformierbarer Elektronen - und der Flächensatz. ser. 4, vol. 23, pp. 206-208.

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Die vom Relativitätsprinzip geforderte Trägheit der Energie. ser. 4, vol. 23, pp. 371-384.

Electromagnetische Grundgleichungen für bewegte Körper, with J. Laub. ser. 4, vol. 26, pp. 532-540, and vol. 27, p. 232 (Berichtigungen).

Die im elektromagnetischen Felde auf ruhende Körper ausgefibten pondermotorischen Kräfte, with J. Laub. ser. 4, vol. 26, pp. 541-550.

Bemerkungen zu unserer Arbeit: Elektromagnetische Grundgleichungen für bewegte Körper, with J. Laub. ser. 4, vol. 28, pp. 445-447.

Bemerkung zur Arbeit von Mirimanoff: Die Grundgleichungen. ser. 4, vol. 28, pp. 885-888.

Uber einen Satz der Wahrscheinlichkeitsrechnung und seine Anwendung in der Strahlungstheorie, with L. Hopf. ser. 4, vol. 33, pp. 1096-1104.

Statistische Untersuchung der Bewegung eines Resonators in einem Strahlungsfeld, with L. Hopf. ser. 4, vol. 33, pp. 1105-1115.

Theorie der Opaleszenz von homogenen Flüssigkeiten und Flüssigkeitsgemischen in der Nähe des kritischen Zustandes. ser. 4, vol. 33, pp. 1275-1298.

Bemerkung zu dem Gesetz von Eötvös. ser. 4, vol. 34, pp. 165-169.

Beziehung zwischen dem elastischen Verhalten und der spezifischen Wärme bei festen Körpern mit einatomigem Molekül. ser. 4, vol. 34, pp. 170-174, and p. 590.

Bemerkungen zu den P. Hertzschen Arbeiten: Mechanische Grundlagen der Thermodynamik. ser. 4, vol. 34, pp. 175-176.

Berichtigung zu meiner Arbeit: Eine neue Bestimmung der Moleküldimensionen. ser. 4, vol. 34, pp. 591-592.

Elementare Betrachtungen über die thermische Molekularbewegung in festen Körpern. ser. 4, vol. 35, pp. 679-694.

Einfluss der Schwerkraft auf die Ausbreitung des Lichtes. ser. 4, vol. 35, pp. 898-908.

Thermodynamische Begründung des photochemischen Äquivalentgesetzes. ser. 4, vol. 37, pp. 832-838, and vol. 38, pp. 881-884.

Lichtgeschwindigkeit und Statik des Gravitationsfeldes. ser. 4, vol. 38, pp. 355-369.

Theorie des statischen Gravitationsfeldes. ser. 4, vol. 38, pp. 443-458.

Antwort auf eine Bemerkung von J. Stark: Anwendung des Planckschen Elementargesetzes. ser. 4, vol. 38, pp. 888. Records of the Office of the Director / Faculty Files / Box 10 / Einstein, Albert -- Papers, Publication by IAS-Permissions From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

ANNALEN DER PHYSIK (3)

Relativität und Gravitation: Erwiderung auf eine Bemerkung von M. Abraham. ser. 4, vol. 38, pp. 1059-1064.

Bemerkung zu Abraham's Auseinandersetzung: Nochmals Relativität und Gravitation. ser. 4, vol. 39, p. 704.

Einige Argumente für die Annahme einer molekular Agitation beim absoluten Nullpunkt, with 0. Stern. ser. 4, vol. 40, pp. 551-560.

Nordströmsche Gravitationstheorie vom Standpunkt des absoluten Differentialkalküls, with A. D. Fokker. ser. 4, vol. 44, pp. 321-328.

Antwort auf eine Abhandlung M. von Laues: Ein Satz der Wahrscheinlichkeitsrechnung und seine Anwendung auf die Strahlungstheorie. ser. 4, vol. 47, pp. 879-885.

Grundlage der allgemeinen Relativitätstheorie. ser. 4, vol. 49, pp. 769-822.

Uber Fr. Kottlers Abhandlung: Einsteins Aquivalenzhypothese und die Gravitation. ser. 4, vol. 51, pp. 639-642.

Prinzipielles zur allgemeinen Relativitätstheorie. ser. 4, vol. 55, pp. 241-244.

Bemerkung zur Seletyschen Arbeit: Beiträge zum kosmologischen Problem. ser. 4, vol. 69, pp. 436-438.

THE INSTITUTE FOR ADVANCED STUDY

PRINCETON, NEW JERSEY

OFFICE OF THE DIRECTOR

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4 September 1956

California Institute of Technology Pasadena, California

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Robert Oppenhame

Robert Oppenheimer

Lellikan Publishing Firm Date:

THEODORE VON KARMAN ANNIVERSARY VOLUME

Five-dimensional representation of gravitation and electricity, with V. Bargmann and P. G. Bergmann. pp. 212-225 of THEODORE VON KARMAN ANNIVERSARY VOLUME. Pasadena, California Institute of Technology.

THE INSTITUTE FOR ADVANCED STUDY PRINCETON, NEW JERSEY

OFFICE OF THE DIRECTOR

30 August 1956

ENCYCLOPEDIA BRITANNICA 35 W. 32nd Street New York, New York

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Robert Officen

Robert Oppenheimer

Approved: clopaet Publishing Firm: Date:_

ENCYCLOPEDIA BRITANNICA

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Space-time. 14th ed., vol. 21, pp. 105-108.



THE UNIVERSITY LIBRARY GLASGOW, W.2 SCOTLAND

Tel. Kelvin 2231

11th September, 1956

Dear Sir,

I have pleasure in sending the authority for which you ask to include in the projected edition of scientific papers of Professor Einstein the short lecture which he delivered in Glasgow in 1933 on the "Origins of the General Theory of Relativity".

I enclose a spare copy of the lecture for the convenience of the editors.

Yours very truly,

to mackenna

University Librarian and Keeper of the Hunterian Books and MSS.

Mr J. Robert Oppenheimer, A.B., Ph.D., The Institute for Advanced Study, Princeton, New Jersey, U. S. A.

THE INSTITUTE FOR ADVANCED STUDY

PRINCETON, NEW JERSEY

OFFICE OF THE DIRECTOR

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4 September 1956

Glasgow University Publications University of Glasgow Glasgow W2, England

Gentlemen:

The Institute for Advanced Study is planning to publish the collected scientific papers of Albert Einstein. In laying down general policy for this publication, we established an advisory committee consisting of M. Born, M. von Laue, W. Pauli, and H. Weyl^T. Dr. Valentine Bargmann, associate professor of physics at Princeton University and a former colleague of Professor Einstein, is acting as general editor of the scientific papers, and the Princeton University Press will publish the volumes.

I am writing now to ask you to approve inclusion in our edition of the scientific papers of the items on the attached list. We are aware that the Estate of Albert Einstein is contemplating a complete edition of Professor Einstein's writings. Our project is entirely separate from that, and will include only published, scientific writings.

I am hopeful that you will approve the inclusion of this material in the definitive collection of Professor Einstein's scientific writings. Please sign below and return to me one copy of this letter.

With many thanks, and very sincerely,

Robert Oppenheimen

Robert Oppenheimer

Approved: <u>Av Mackenna</u> (Suretary Mobilications Committee) Publishing Firm: <u>University y Glasgow</u>. Date: <u>8ⁿ</u> Suprember, 1956.

GLASGOW UNIVERSITY PUBLICATIONS

ORIGINS OF THE GENERAL THEORY OF RELATIVITY. Lecture on the George A. Gibson foundation in the University of Glasgow, June 20th, 1933. Glasgow, Jackson. 11 pp. (Glasgow university publications, no. 30.)

GLASGOW UNIVERSITY PUBLICATIONS

ORIGINS OF THE GENERAL THEORY OF RELATIVITY. Lecture on the George A. Gibson foundation in the University of Glasgow, June 20th, 1933. Glasgow, Jackson. 11 pp. (Glasgow university publications, no. 30.) Records of the Office of the Director / Faculty Files / Box 10 / Einstein, Albert -- Papers, Publication by IAS-Pe From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

G.U.P. XXX.

THE ORIGINS OF THE GENERAL THEORY OF RELATIVITY

Being the first Lecture on the George A. Gibson Foundation in the University of Glasgow delivered on June 20th, 1933

BY ALBERT EINSTEIN



Glasgow Jackson, Wylie and Co. Publishers to the University

1933



GLASGOW UNIVERSITY PUBLICATIONS.

XXX

THE ORIGINS OF THE GENERAL THEORY OF RELATIVITY

THE ORIGINS OF THE GENERAL THEORY OF RELATIVITY

Being the first Lecture on the George A. Gibson Foundation in the University of Glasgow delivered on June 20th, 1933

BY

ALBERT EINSTEIN



Glasgow Jackson, Wylie and Co. Publishers to the University 1933 I WAS very glad to accept the invitation to say something about the history of my own scientific work. Not that I have an unduly high opinion of the importance of my own endeavours. But to write the history of the work of another requires an understanding of his mental processes which can be better achieved by professional historians; while to explain one's own former way of thinking is very much easier. In this respect one is in an incomparably more favourable position than anyone else, and it would be a mistake from a sense of false modesty to pass by an opportunity to put the story on record.

After the special theory of relativity had shown the equivalence for formulating the laws of nature of all so-called inertial systems (1905) the question whether a more general equivalence of co-ordinate systems existed was an obvious one. In other words, if one can only attach a relative meaning to the concept of velocity, should one nevertheless maintain the concept of acceleration as an absolute one ? From the purely kinematic point of view the relativity of any and every sort of motion was indubitable; from the physical point of view, however, the inertial system seemed to have a special importance which made the use of other moving systems of co-ordinates appear artificial. Records of the Office of the Director / Faculty Files / Box 10 / Einstein, Albert -- Papers, Publication by IAS-Permissions From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

6

I was, of course, familiar with Mach's idea that inertia might not represent a resistance to acceleration as such, so much as a resistance to acceleration relative to the mass of all the other bodies in the world. This idea fascinated me; but it did not provide a basis for a new theory. I made the first step towards the solution of this problem when I endeavoured to include the law of gravity in the framework of the special theory of relativity. Like most physicists, at this period I endeavoured to find a "field law," since, of course, the introduction of action at a distance was no longer feasible in any plausible form once the idea of simultaneity had been abolished.

The simplest way was, of course, to keep the Laplace scalar potential of gravity and to extend the Poisson equation by adding, in such a way as to comply with the special theory of relativity, a term differentiated with respect to the time. The law of motion of the particle in a gravitational field, of course, also had to be made to conform to the special theory of relativity. The way to do this was not unambiguously evident, since clearly the inertial mass of a body might depend upon the gravitational potential. Indeed, this was to be expected on account of the inertia of energy.

Investigations on these lines, however, led to a result that caused me grave misgivings. According to the classical mechanics, the vertical acceleration of a body in a vertical field of gravitation was in7

dependent of the horizontal component of the velocity. It follows from this that the vertical acceleration of a mechanical system (or of its centre of gravity) in such a field should be independent of its internal kinetic energy. According to the theory I was investigating, however, the vertical acceleration was not independent of the horizontal velocity, and consequently, was not independent of the internal energy of the system.

This did not agree with the old well-known empirical result that all bodies in a gravitational field are subject to the same acceleration. This principle, which can also be stated as the law of the equivalence of inertial and gravitational mass, impressed me as being of fundamental importance. I wondered how this law could exist, and believed that it held the key to the real understanding of inertia and gravitation. I never seriously doubted its exact validity, even though I did not know about the beautiful experiments of Eötvös, which, if I remember aright, were not known to me until a later date.

I gave up, therefore, the attempt, which I have sketched above, to treat the problem of gravitation within the framework of the special theory of relativity; it was clearly inadequate, since it failed to take into account just the most fundamental property of gravitation. The principle of the equivalence of inertial and gravitational mass could now be formulated in a very simple and intelligible mannerRecords of the Office of the Director / Faculty Files / Box 10 / Einstein, Albert -- Papers, Publication by IAS-Permissions From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

namely, that in a homogeneous gravitational field all motions take place just as they would in the absence of such a field in a uniformly accelerated system. If this principle (the equivalence principle) was true for all processes, it indicated that the principle of relativity must be extended to include non-uniform motions of the co-ordinate systems if one desired to obtain an unforced and natural theory of the gravitational field. From 1908 until 1911 I concerned myself with considerations of this nature and endeavoured to extract special results which I need not describe here. Their main importance was merely that it became perfectly plain that a reasonable theory of gravitation could only be obtained by an extension of the principle of relativity.

The problem, therefore, was to find and to elaborate a theory expressed in equations which did not change their form for non-linear transformations of the co-ordinates. Whether this condition was to be fulfilled for all continuous transformations of the coordinates or only for special ones I could not say at the outset. I saw very soon that the simple physical interpretation of the co-ordinates would vanish if, as was required by the equivalence principle, nonlinear transformations were to be permissible. In other words, one could no longer demand that coordinate differences should be the quantities directly measurable, in principle, with ideal rulers and clocks. The recognition of this fact worried me a great deal, for I could not see for a long time what the co-ordin9

ates were to represent at all in physics in these circumstances. The escape from this dilemma only came in 1912 as a result of the following considerations.

We were called upon to find a new formulation of the inertial principle which would become identical with Galileo's formulation in the absence of a " real " gravitational field, that is to say, if there existed an inertial system and if we used it as our co-ordinate system. Galileo's formulation says :- A material particle on which no forces are acting is represented in four-dimensional space-time by a straight line; in other words, by a shortest line, or, more correctly, by a line whose length has a stationary value. This concept presupposes the concept of the length of a line element, that is to say, of a metric structure. In the special theory of relativity, as Minkowski had shown, the metric was quasi-Euclidian; that is to say, the square of the length ds of a line element was a quadratic form in the differentials of the co-ordinates with constant coefficients.

If one introduces other co-ordinates by non-linear transformations, ds^2 remains a homogeneous function of the differentials of the co-ordinates, but the co-efficients $g_{\mu\nu}$ of this form are no longer constant, but are functions of the co-ordinates. Mathematically, this means that the physical four-dimensional continuum has a Riemann metric. Time-like lines, whose lengths, measured by this metric, have stationary values, represent the laws of motion of a material

point on which, apart from gravity, no forces are acting. The co-efficients $g_{\mu\nu}$ of this metric describe the gravitational field in the co-ordinate system one has chosen. We have thus found a natural formulation of the equivalence principle; that it was permissible to extend it to all gravitational fields was a plausible hypothesis.

The solution of the above dilemma was therefore as follows:—A real physical significance attaches only to the Riemann metric, not to the co-ordinates or their differences. With this idea, a workable basis for the general theory of relativity had been found. Two problems, however, remained to be solved:—(1) How can we translate a field law given us in the terminology of the special theory of relativity into a Riemann metric ? (2) What are the differential expressions which enter into the law governing the Riemann metric $g_{\mu\nu}$ (the law of the gravitational field) ?

I worked at these problems from 1912 to 1914 with my friend Grossmann. We found that the mathematical methods for solving the first question were ready waiting for us in the absolute differential calculus of Ricci and Levi Civita. As to the second problem, its solution obviously required that we should be able to form differential invariants of the second order of the $g_{\mu\nu}$. We soon recognised that methods for doing this had long ago been worked out by Riemann (curvature tensor). Already two years before the publication of the general theory of relativity, we had considered the correct field equations of gravitation, but we failed to recognise that they were physically applicable. I believed, on the contrary, that one could show that they were not compatible with experience. Further, I imagined that one could show by a general argument that a law of gravitation that was invariant for all possible transformations of co-ordinates would not be compatible with the principle of causality.

These were errors in thinking which caused me two years of hard work before at last, in 1915, I recognised them as such and returned penitently to the Riemann curvature, which enabled me to find the relation to the empirical facts of astronomy.

Once the validity of this mode of thought has been recognised, the final results appear almost simple; any intelligent undergraduate can understand them without much trouble. But the years of searching in the dark for a truth that one feels, but cannot express; the intense desire and the alternations of confidence and misgiving, until one breaks through to clarity and understanding, are only known to him who has himself experienced them.

> PRINTED IN GREAT BRITAIN BY ROBERT MACLEHOSE AND CO. LTD. THE UNIVERSITY PRESS, GLASGOW

THE INSTITUTE FOR ADVANCED STUDY

PRINCETON, NEW JERSEY

OFFICE OF THE DIRECTOR

14 September 1956

Prof. Dr. Emil Honegger Susenbergstrasse 85 Zurich 6, Switzerland

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Gentlemen:

The Institute for Advanced Study is planning to publish the collected scientific papers of Albert Einstein. In laying down general policy for this publication, we established an advisory committee consisting of M. Born, M. von Laue, W. Pauli, and H. Weyl[†]. Dr. Valentine Bargmann, associate professor of physics at Princeton University and a former colleague of Professor Einstein, is acting as general editor of the scientific papers, and the Princeton University Press will publish the volumes.

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I am hopeful that you will approve the inclusion of this material in the definitive collection of Professor Einstein's scientific writings. Please sign below and return to me one copy of this letter.

With many thanks, and very sincerely,

Robert Offenbainer

Robert Oppenheimer

Approved: <u>Emil Honegger</u> Publishing Firm: <u>Iwiss Federal Institute</u> of Technology, Dirich, Date: <u>24th September 1956</u>.

"Ueber den gegenwärtigen Stand der Feldtheorie," by Albert Einstein. pp. 126-132 of "Festschrift zum 70. Geburtstag von Prof. Stodola."

14 September 1956

Dear Prof. Dr. Honegger:

Records of the Office of the Director / Faculty Files / Box 10 / Einstein, Albert -- Papers, Publication by IAS-Permissions From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

> We recently wrote to Crell Fuesali Verlag for permission to include the article, "Ueber den gegenwärtigen Stand der Feldtheorie," in a collection of Professor Einstein's published scientific writings. Orell Fuesali Verlag has granted our request; but they have suggested that we also request your approval, inasmuch as you were the editor of "Testschrift zum 70. Ceburtstag von Prof. Stodola" at the time of the publication. The formal request is enclosed in the hope that we may have your approval.

> > Very sincerely,

Robert Oppenheimer

Prof. Dr. Emil Honegger Susenbergstrasse 85 Zurich 6, Switzerland

ORELL FÜSSLI VERLAG ZÜRICH-SCHWEIZ

ZÜRICH 22, DEN September 11, 56 NUSCHELERSTR. 22



The Institute for Advanced Study <u>Princeton</u>/New Jersey U.S.A.

Gentlemen,

Your letter of 4th September has duly come to hand. We ourselves approve without doubt the including of the article "Ueber den gegenwärtigen Stand der Feldtheorie", by Albert Einstein, in your collection of Prof. Einstein's scientific writings. This treatise was published in "Festschrift zum 70. Geburtstag von Prof. Stodola", the editor of which was Prof. Dr. Emil Honegger, Susenbergstrasse 85, Zurich 6. We therefore think that it would be advisable for you to appeal to the latter as well, for the approval of the aforesaid publication.

With this we hope to have given you the information wanted, and remain

very sincerely yours, ORELL FUESSLI VERLAG

Immin Hannah

FESTSCHRIFT

Über den gegenwärtigen Stand der Feldtheorie. pp. 126-132 of FESTSCHRIFT PROF. DR. A. STODOLA ÜBERREICHT. Zürich, Füssli.

> ARTHUR A. DONIGIAN COUNSELLOR AT LAW

> > ANTHONY ANZALONE

207 UNION STREET HACKENSACK, NEW JERSEY

September 19, 1956.

The Institute for Advanced Study, Office of the Director, Princeton, New Jersey.

Attention - Dr. Robert Oppenheimer

Dear Dr. Oppenheimer:

Your letter of September 14, 1956 is hereby acknowledged.

If you will refer to my letter of September 10th, you will find the limitations within which permission is granted for republication of Professor Infeld's writings.

My approval is enclosed herewith.

Very truly yours, a. L ARTHUR A. DONIGIAN.

Attorney in Fact for LEOPOLD INFELD

AAD:em Encl. File #1328.

THE INSTITUTE FOR ADVANCED STUDY PRINCETON, NEW JERSEY

OFFICE OF THE DIRECTOR

14 September 1956

Mr. Arthur A. Donigian Counsellor at Law 207 Union Street Hackensack, New Jersey

Gentlemen:

The Institute for Advanced Study is planning to publish the collected scientific papers of Albert Einstein. In laying down general policy for this publication, we established an advisory committee consisting of M. Born, M. von Laue, W. Pauli, and H. Weyl[†]. Dr. Valentine Bargmann, associate professor of physics at Princeton University and a former colleague of Professor Einstein, is acting as general editor of the scientific papers, and the Princeton University Press will publish the volumes.

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With many thanks, and very sincerely,

Robert Offent

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Approved	Lette	ARTHUR	A. DONI	TAN	-	
Publishing	Firm:_	Attorney	in Fact	for	LEOPOLD	INFELD
Date:	Sept	ember 19,	1956.			

L. INFEID: THE WORLD IN MODERN SCIENCE. Introduction. pp. 5-6. London, Gollancz.

> Form letter, dated 14 September 1956, sent to Arthur A. Donigian, Counsellor at Law, 207 Union Street, Hackensack, N.J.



Mr. Robert Oppenheimer,

The Institute for Advanced Study

Princeton,

New Jersey,

U.S.A.

← Second fold here →

Sender's name and address

First fold

here

14 Henrietta Street, Covent Garden

London, W.C.2, England

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C. HAMPLER

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VICTOR GOLLANCZ, LTD

14 Henrietta Street, Covent Garden, W.C.2

LONDON

11th September, 1956.

Mr. Robert Oppenheimer, The Institute for Advanced Study, Princeton, New Jersey, U.S.A.

Dear Sir,

Thank you for your letter of September 4th regarding the use of material from THE WORLD IN MODERN SCIENCE by Professor L. Infeld in your forthcoming collection of scientific papers of Albert Einstein.

We regret that we are unable ourselves to give you permission to use this material as the rights are not in our hands. We cannot find any trace in our files of an American edition of the book, and, so far as we can ascertain, Professor Infeld has retained the copyright. We no longer have the current address of Professor Infeld, but a cousin of his thinks he is now holding a Chair at some Canadian university, probably Toronto. We don't know whether that information will enable you to get in touch with him, but we regret that we cannot suggest any other way of obtaining the permission you need.

Yours very truly,

Mayarett Schefield

Editorial Department.

L. INFELD: THE WORLD IN MONDERN SCIENCE

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Introduction. pp. 5-6 of L. Infeld: The World in Modern Science. London, Gollancz.

THE INSTITUTE FOR ADVANCED STUDY PRINCETON, NEW JERSEY

OFFICE OF THE DIRECTOR

4 September 1956

Simon and Schuster 630 Fifth Avenue New York 20, New York

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Gentlemen:

The Institute for Advanced Study is planning to publish the collected scientific papers of Albert Einstein. In laying down general policy for this publication, we established an advisory committee consisting of M. Born, M. von Laue, W. Pauli, and H. Weyl[†]. Dr. Valentine Bargmann, associate professor of physics at Princeton University and a former colleague of Professor Einstein, is acting as general editor of the scientific papers, and the Princeton University Press will publish the volumes.

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I am hopeful that you will approve the inclusion of this material in the definitive collection of Professor Einstein's scientific writings. Please sign below and return to me one copy of this letter.

With many thanks, and very sincerely,

Approved: GIAN, ARTHUR A. DON

Robert Offenhamen

Robert Oppenheimer

Publishing Firm: Attorney in fact for LEOPOLD INFELD.

Data.	September	10	1056	
Date:	Sebrember	TO.	1930.	

ARTHUR A. DONIGIAN COUNSELLOR AT LAW

ANTHONY ANZALONE

207 UNION STREET HACKENSACK, NEW JERSEY HUBBARD 7-4913

September 10, 1956.

The Institute for Advanced Study, Office of the Director, Princeton, New Jersey.

Attention - Dr. Robert Oppenheimer

Dear Dr. Oppenheimer:

Your letter of September 4, 1956 to Simon and Schuster has been referred to me for reply.

As you know, Professor Infeld is in Warsaw and has delegated to me certain authorities to act upon in his behalf. Among those authorities are to grant republication rights of his writings; the only conditions that he has set with me relative to republication rights are that I grant them for scholarly purposes and to those scholars who wish to use the material for non-profit purposes.

Within these limits and insofar as the copy right of "EVOLUTION OF PHYSICS" is shared by Professor Infeld, you may include the material contained in said "EVOLUTION OF PHYSICIS" in the collection of scientific writings of Professor Einstein that you are now compiling.

truly yours,

AAD:em Encls. File #1328.

THE EVOLUTION OF PHYSICS: THE GROWTH OF IDEAS FROM EARLY CONCEPTS TO RELATIVITY AND QUANTA

with L. Infeld. New York, Semon and Schuster. x, 319 pp.

THE INSTITUTE FOR ADVANCED STUDY

PRINCETON, NEW JERSEY

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4 September 1956

AMERICAN PEOPLES ENCYCLOPEDIA Spencer Press, Inc. 153 N. Michigan Avenue Chicago 1, Illinois

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Robert Offenhamen

Robert Oppenheimer

Approved: Publishing Firm: Spinder Pres Date: September 10, 19,56

AMERICAN PEOPLES ENCYCLOPEDIA

Relativity: essence of the theory of relativity. Vol. 16, col. 604-608. Chicago, Spencer Press (1948).

THE INSTITUTE FOR ADVANCED STUDY princeton, new jersey

OFFICE OF THE DIRECTOR

4 September 1956

Weidmann-Greven-Verlag Reichsstr. 107 Berlin, Germany

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Robert Oppenheimen

Robert Oppenheimer

Approved: Ja (Quellenangabe erforderlich). Weidmannsche Verlags-Publishing Firm: buchhandlung Date: Berlin-Charlottenburg 9, den 1.10.1956 K./St.

WEIDMANNSCHE VERLAGSBUCHHANDLUNG

LUCRETIUS, DE RERUM NATURA

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> Geleitwort. vol. 2, p. vi, a-b, of <u>Lucretius. De rerum natura</u>, lateinisch und deutsch, von H. Diels, Berlin, Weidmann.

THE INSTITUTE FOR ADVANCED STUDY

PRINCETON, NEW JERSEY

OFFICE OF THE DIRECTOR

8 September 1956

FRANKFURTER ZEITUNG Frankfurt, Germany

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Robert Oppenhamer

Robert Oppenheimer

Approved:	Frankfurter Societäts-Druckerei
Publishing	/ Zentrakahteilunk
Date:	1. 1.
	Raykowski

5.11.1956

FRANKFURTER ZEITUNG Über Kepler 9.Nov.1930 co. 3-4

FRANKFURTER ZEITUNG

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Über Kepler. 9 Nov. 1930, p. 16, col. 3-4.

7 Sept.



VERLAG ULLSTEIN

ULLSTEIN AKTIENGESELLSCHAFT

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PUBLIC RELATIONS

Berlin, den 11 September 1956 H.U./Schl

The Institute for Advanced Study Office of the Director

Princeton, New Jersey U.S.A.

Dear Sirs:-

With regard to your letter of 30th August 1956 in which you ask us to approve the inclusion of the two items

VOSSISCHE ZEITUNG: Relativitätsprinzip. 26 April 1914, pp. 33-34. Friedrich Adler als Physiker. Morgenausgabe (no. 295) May 23 (1917), p. 2.

in your edition of the scientific papers of Prof. Albert Einstein, we would like to inform you that we do not have any objections against it.

Sincerely yours Heinz Uls bei

VOSSISCHE ZEITUNG

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> Relativitätsprinzip. 26 April 1914, pp. 33-34. Friedrich Adler als Physiker. Morgen Ausgabe (no. 259) May 23 (1917), p. 2.

THE INSTITUTE FOR ADVANCED STUDY PRINCETON, NEW JERSEY

OFFICE OF THE DIRECTOR

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30 August 1956

reitschunft für Elektrochemie

ABHANDLUNGEN DER DEUTSCHEN BUNSEN-GESELLSCHAFT Herausgegeben im Auftrageder Gesellschaft Karlsfuhe, Englerstrasse (?) Berlin, GERMANY

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With many thanks, and very sincerely,

Robert Offenhamer

Robert Oppenheimer

cunter Approved: ZEITSCHRIFT FOR ELEKTROCHEMIE BERICHTE DER BUNSENGESELLSCHAFT Publishing Firm: FUR PHYSIKALISCHE CHEMIE KARLSRUHE, ENGLERSTRASSE 11 Date: 7 TX 1856 (TECHN. HOCHSCHULE)

DEUTSCHE BUNSENGESELLSCHAFT, ABHANDLUNGEN

Zum gegenwärtigen Stande des Problems der spezifischen Wärme. nr. 7, pp. 330-364.

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Zum gegenwärtigen Stande des Problems der spezifischen Wärme. nr. 7, pp. 330-364.

THE INSTITUTE FOR ADVANCED STUDY American Mathematical Society

PRINCETON, NEW JERSEY

OFFICE OF THE DIRECTOR

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4 September 1956

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SEP 7 1956

AMERICAN MATHEMATICAL SOCIETY, BULLETIN 80 Waterman Street Providence 6, Rhode Island

Gentlemen:

The Institute for Advanced Study is planning to publish the collected scientific papers of Albert Einstein. In laying down general policy for this publication, we established an advisory committee consisting of M. Born, M. von Laue, W. Pauli, and H. Weyl T. Dr. Valentine Bargmann, associate professor of physics at Princeton University and a former colleague of Professor Einstein, is acting as general editor of the scientific papers, and the Princeton University Press will publish the volumes.

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With many thanks, and very sincerely,

what Oppenhame

Robert Oppenheimer Approved: Publishing Fi Date:

AMERICAN MATHEMATICAL SOCIETY BULLETIN

Elementary derivation of the equivalence of mass and energy. vol. 41, pp. 223-230.

THE INSTITUTE FOR ADVANCED STUDY PRINCETON, NEW JERSEY

OFFICE OF THE DIRECTOR

1. 10

14 September 1956

Angewandte Chemie Verlag Chemie G. m. b. H. Hauptstrasse 127 Weinheim/Bergstrasse Germany

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Gentlemen:

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Robert Oppenheimer

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Robert Oppenheimer

Approved:	Fr.	Boschka		
Publishing	Firm:	Redaktion ANGEWANDTE CHEMIE Heidelberg, Ziegelhäuserlandstr.	35	Gern
Date:		20.9.56		

ZEITSCHRIFT FÜR ANGEWANDTE CHEMIE (now called ANGEWANDTE CHEMIE)

Theoretisches und Experimentelles zur Frage der Lichtentsehung. vol. 40, p. 546.

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Gedenkworte auf Albert A. Michelson. vol. 44, p. 658.

Unbestimmtheitsrelation. vol. 45, p. 23.

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THE INSTITUTE FOR ADVANCED STUDY

PRINCETON, NEW JERSEY

OFFICE OF THE DIRECTOR

17 Cha

8 September 1956

ANNALS OF MATHEMATICS c/o Institute for Advanced Study Princeton, New Jersey

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Robert Manhaman

Robert Oppenheimer

Approved: No bat S, Saile JV. Publishing Firm: Princeton University frees Date: Lept, 18, 1956

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> Darstellung der Semi-Vektoren als gewöhnliche Vektoren von besonderem Differentiations Charakter, with W. Mayer. ser. 2, vol. 35, pp. 104-110.

form letter 9/8/36

Gravitational equations and the problems of motion, with L. Infeld and B. Hoffmann. ser. 2. vol. 39, pp. 65-100.

Gravitational equations and the problems of motion. II, with L. Infeld. ser. 2, vol. 41, pp. 455-464.

Non-existence of regular stationary solutions of relativistic field equations, with W. Pauli. ser. 2, vol. 44, pp. 131-137.

Bivector fields, I, with V. Bargmann. ser. 2, vol. 45, pp. 1-14.

Bivector fields, II. ser. 2, vol. 45, pp. 15-23.

Generalization of the relativistic theory of gravitation. ser. 2, vol. 46, pp. 578-584.

Generalization of the relativistic theory of gravitation, II, with E. G. Straus. ser. 2, vol. 47, pp. 731-741.

PRINCETON UNIVERSITY PRESS

Inter-Departmental Memorandum

9/20/56 19

TO Dr. Oppenheimer

FROM Princeton University Press SUBJECT

Einstein Papers

The attached list should have been sent to you with the form letter signed by Mr. Bailey that was returned to you yesterday.

ANNALS OF MATHEMATICS

Darstellung der Semi-Vektoren als gewöhnliche Vektoren von besonderem Differentiations Charakter, with W. Mayer. ser. 2, vol. 35, pp. 104-110.

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THE INSTITUTE FOR ADVANCED STUDY PRINCETON, NEW JERSEY

OFFICE OF THE DIRECTOR

30 August 1956

ARCHIVES DES SCIENCES PHYSIQUES ET NATURELLES Librairie de l'Universite 5 Rue de la Comaterier Geneve, SWITZERLAND

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Robert U

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ARCHIVES DES SCIENCES PHYSIQUES ET NATURELLES

Principe de relativité et ses conséquences dans la physique moderne. ser. 4, vol. 29, pp. 5-28, and 125-244.

Théorie des quantités lumineuses et la question de la localisation de l'énergie électromagnétique. ser. 4, vol. 29, pp. 525-528.

Forces pondéromotrices qui agissent sur les conducteurs ferromagnétiques disposés dans un champ magnétique et parcourus par un courant. ser. 4, vol. 30, pp. 323-324.

Bases physiques d'une théorie de la gravitation. (Translated by E. Guillaume) ser. 4, vol. 37, pp. 5-12.

THE INSTITUTE FOR ADVANCED STUDY PRINCETON, NEW JERSEY

OFFICE OF THE DIRECTOR

30 August 1956

ASTRONOMISCHE NACHRICHTEN Akademie-Verlag Schiffbauerdamm, 19 Berlin N.W. 7, GERMANY

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Robert Oppenheimer

Robert Oppenheimer

Prof.Dr. J. Wempe, Editor of Astronomische Nachrichten

Publishing Firm: Akademie-Verlag, Berlin

Date:_____ 10.Sept.1956

Approved:

ASTRONOMISCHE NACHRICHTEN

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Bemerkung zu P. Harzers Abhandlung: Die Mitführung des Lichtes in Glas und die Aberration. vol. 199, pp. 8-10.

Antwort auf eine Replik P. Harzers. vol. 199, pp. 47-48.

Bemerkung zu der Notiz von W. Anderson: Neue Erklärung des kontinuierlichen Koronaspektrums. vol. 219, p. 19.

Antwort auf eine Bemerkung von W. Anderson. vol. 221, pp. 329-330.

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ASTROPHYSICAL JOURNAL University of Chicago Press 5750 Ellis Avenue Chicago 37, Illinois

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W. H. Julius, 1860-1925. vol. 63, pp. 196-198.

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W. H. Julius, 1860-1925. vol. 63, pp. 196-198.

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PRINCETON, NEW JERSEY

OFFICE OF THE DIRECTOR

4 September 1956

CANADIAN JOURNAL OF MATHEMATICS Canadian Mathematics Congress University of Toronto Toronto, Canada

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Approved: Solers. Pobling Publishing Firm: Can. J. Maths. Date: 10 Sept. / 86

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Approved: Clerk. Robinson Publishing Firm: Cen. J. Math. Date: 10 Sept 156

CANADIAN JOURNAL OF MATHEMATICS

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Motion of particles in general relativity theory, with Leopold Infeld. vol. 7, pp. 209-241.

> Verband Deutscher Physikalischer Geselischaften e.V.

> > Hauptgeschäftsführer

Braunschweig, den 8. Oktober 1956 Phys.-Techn. Bundesanstalt Bundesallee 100 VDPG/V (Ebert-1) 471

The Institute for Advanced Study zu. Händen v. Herrn R. Oppenheimer

Princeton, New Jersey/ USA

I says approval

Sehr geehrter Herr Oppenheimer!

Auf Ihre an den Verlag Friedrich Vieweg & Sohn, Braunschweig, Burgplatz 1, gerichtete Schreiben vom 30. August 1956 habe ich die Ehre, Ihnen namens des Verbandes Deutscher Physikalischer Gesellschaften mitzuteilen, daß wir gern unsere Zustimmung zum Nachdruck der von Ihnen in diesen Schreiben aufgeführten Arbeiten geben.

Mit verbindlichen Empfehlungen

Ihr

Ar Elect

Ø Herrn Prof. Gerlach









Per Luftpost The Institute for Advanced St dy

Princeton, New Jersey /USA

FRIEDR. VIEWEG & SOHN

Verlag und Druckerei

(20b) BRAUNSCHWEIG Postfach 185

Braunschweig, 6.9.56 Go/Fo

Betr.: Gesamtausgabe der wissenschaftlichen Werke Albert Einsteins

Sehr geehrte Herren!

Uns erreichen Ihre Schreiben vom 30.8.1956 an die Redaktionen der "Berichte der Deutschen Physikalischen Gesellschaft" und der "Verhandlungen der Deutschen Physikalischen Gesellschaft". Ihre Schreiben haben wir an die Geschäftsstelle des*Verbandes Deutscher Physikalischer Gesellschaften, Braunschweig, Bundesallee loo, weitergegeben. Sie werden von dort in Kürze Nachricht erhalten.

Friedr. Vieweg & Sohn

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Have forwarded reque you should hear from Them.

- do - -

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> Experimenteller Nachweis der Ampèreschen Molekularströme, with W. J. de Haas. vol. 17, pp. 152-170, and p. 203 (Berichtigung). Notiz zu unserer Arbeit, <u>ibid.</u>, p. 420

Einfaches Experiment sum Nachweis der Ampereschen Molekularströme. vol. 18, pp. 173-177.

Strahlungs-emission und -absorption nach der Quantentheorie. vol. 18, pp. 318-323.

Zum Quantensatz von Sommerfeld und Epstein. vol. 19, pp. 82-92. -

Lassen sich Brechungsexponenten der Körper für Röntgenstrahlen experimentell ermitteln? vol. 20, pp. 86-87.

Bemerkung zu Gehrckes Notiz: Über den Äther. vol. 20, p. 261.

DEUTSCHE PHYSIKALISCHE GESELLSCHAFT, BERICHTE

Beiträge zur Quantentheorie. (or Verhandlungen, vol. 16), pp. 820-828.

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30 August 1956

J.P.

- 3 SEPT 1955

JOURNAL DE PHYSIQUE ET LE RADIUM 12 Place Henri-Bergson Paris 8e, FRANCE

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JOURNAL DE PHYSIQUE

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Deduction thermodynamique de la loi de l'equivalence photochimique. ser. 5, vol. 3, pp. 277-282.

d'accord

Journal de Physique

Manue Monding

JOURNAL DE PHYSIQUE

Deduction thermodynamique de la loi de l'equivalence photochimique. ser. 5, vol. 3, pp. 277-282.

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THE INSTITUTE FOR ADVANCED STUDY PRINCETON, NEW JERSEY

OFFICE OF THE DIRECTOR

4 September 1956

Journal of The Franklin Institute

(FRANKLIN INSTITUTE JOURNAL) Franklin Institute of the State of Pennsylvania Philadelphia, Pennsylvania

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Robert Officentermen

nona Approved: Kly Sustitute Publishing Firm: She 6156 Date:

Please give addet to the Journal as the original sense. NSG

FRANKLIN INSTITUTE, JOURNAL

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> Physik und Realität. vol. 221, pp. 313-347. On gravitational waves, with N. Rosen.

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See two additioned in the THE INSTITUTE FOR ADVANCED

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OFFICE OF THE DIRECTOR

KOWINKLIJKE NEDERLANDSE AKADEMIE VAN WETENSCHAPPEN PROCEEDINGS North Holland Publishing Company Amsterdam, NETHERLANDS

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11 far - Robert Oppenheimer Man

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Dublishin	Firms War Wa Alanda and Maker a
Publishing	Firm: Kon.Ned. Akademie van Wetenschappen

Date: ____4 sept. 1956

2 titles added.

AKADEMIE VAN WETENSCHAPPEN, AMSTERDAM, KERSLAG

- 1 Proefondervindelijk bewijs voor het bestaan der moleculaire stroomen van Ampere, with W. J. de Haas. ser. 4, vol. 23, pp. 1449-1464.
- 2 Experimental proof of the existence of Ampère's molecular currents, with W. J. de Haas. (Proceedings), vol. 18, pp. 696-711.
- 3 Die Diracgleichungen für Semivektoren, with W.Mayer. (Proceedings), vol. 36, pp. 497-516.
- 4 Spaltung der natürlichsten Feldgleichungen für Semivektoren in Spinorgleichungen vom DIRAC'schen Typus, with W.Mayer. (Proceedings), vol. 36, pp.615-619.

1 and 2 same paper (1 in Dutch, 2 in English)

AKADEMIE VAN WETENSCHAPPEN, AMSTERDAM, VERSLAG

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THE INSTITUTE FOR ADVANCED STUDY PRINCETON, NEW JERSEY

DATE RECE SEP L) BLICATIONS OFFIC

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4 September 1956

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Robert Offenhamen

Approved: Director of Publications Publishing Firm: NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL Date: September 11. 1956

THE INSTITUTE FOR ADVANCED STUDY princeton, New Jersey

OFFICE OF THE DIRECTOR

4 September 1956

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NATIONAL ACADEMY OF SCIENCES (Proceedings)

On the relation between the expansion and the mean density of the universe, with W. de Sitter. <u>National academy of sciences</u>, Proceedings, vol. 18, pp. 213-214.

NATIONAL ACADEMY OF SCIENCES (Proceedings)

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1º 1

On the relation between the expansion and the mean density of the universe, with W. de Sitter. <u>National academy of sciences. Proceedings</u>, vol. 18, pp. 213-214.

THE INSTITUTE FOR ADVANCED STUDY PRINCETON, NEW JERSEY

OFFICE OF THE DIRECTOR

30 August 1956

NATURE Macmillan and Co., Ltd. St. Martin's Street London W.C. 2, ENGLAND

Gentlemen:

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With many thanks, and very sincerely,

Robert Offenhamen

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Approved:	N	ATURE	Rober
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Robert Oppenhame

Robert Oppenheimer

Approved:

Publishing Firm:

Date:

NATURE

A brief outline of the development of the theory of relativity, (translated by R. W. Lawson). vol. 106, pp. 782-784.

Theory of the affine field. vol. 112, pp. 448-449.

(Letter to Royal Society on the occasion of the Newton bicentenary). vol. 119, p. 467.

(Quotation from interview with (London) <u>Daily Chronicle</u> of Jan. 26, on the unitary field theory, in advance of publication of his paper on the subject, Einheitliche Feldtheorie). vol. 123, p. 175.

Science and religion. vol. 146, pp. 605-607.

NATURE

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Science and religion. vol. 146, pp. 605-607.

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P.O.B. 269

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7th September 1956

The Institute for Advanced Study Office of the Director Princeton, N.J./U.S.A.

Dear Sirs,

As I have the right for the review PHYSICA, I received your letter to 'Stichting Physica' of Utrecht for consideration.

I have pleasure in approving the inclusion of pages 330 - 334 of PHYSICA, vol. 5 'Elektron und allgemeine Relativitätstheorie' in your edition of the scientific papers of Albert Einstein.

Trusting to have served you herewith, I remain,

Yours faithfully,

N.V. Martinus Nijhoff

Mir.

> Secretaris : Westersingel 34 GRONINGEN Telefoon K 5900-26631

> > 14

Aan te halen in Uw antwoord :

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(Opgericht 24 December 1948)

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Utrecht, September 5, 1956.

The Institute for Advanced Study. PRINCETON - New Jersey. U.S.A.

Re: Your letter dated August 30, 1956.

Gentlemen.

With reference to your letter of August 30, 1956 we regret to inform you that we don't have the copyright of Physica, Vol. 5.

N.V. Martinus Nijhoff's Boekhandel en Uitgevers Mij, The Hague - The Netherlands has this copyright endtherefore we sent your letter to this firm.

Very truly yours, Stichting Physica, (Dr W.J. Beekman) Treasurer.

PHYSICA

Elektron und allgemeine Relativitätstheorie. vol. 5, pp. 330-334.

THE INSTITUTE FOR ADVANCED STUDY PRINCETON, NEW JERSEY

OFFICE OF THE DIRECTOR

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E September 1956

SEP 7 1956

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BY

PHYSICAL REVIEW American Institute of Physics, Inc. 57 East 55th Street New York 22, New York

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With many thanks, and very sincerely,

Robert Ofpenhamen

Robert Oppenheimer

S. A. Jonasmit Approved:

Publishing Firm: American Institute of Physics: The Physical Review

Date: September 11, 1956

PHYSICAL REVIEW

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Knowledge of past and future in quantum mechanics, with R. C. Tolman and B. Podolsky. ser. 2, vol. 37, pp. 780-781.

Can quantum-mechanical description of physical reality be considered complete? with B. Podolsky and N. Rosen. ser. 2, vol. 47, pp. 777-780.

The particle problem in the general theory of relativity, with N. Rosen. ser. 2, vol. 48, pp. 73-77.

Two-body problem in general relativity theory, with N. Rosen, ser. 2, vol. 49, pp. 404-405.

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PHYSIKALISCHE GESELLSCHAFT ZURICH, MITTEILUNGEN

Quantentheorie der Strahlung. vol. 16, pp. 47-62.

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PRINCETON, NEW JERSEY

OFFICE OF THE DIRECTOR

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REVIEWS OF MODERN PHYSICS American Institute of Physics 57 East 55th Street New York 22, New York

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Robert Oppenheimer

Approved: Muchlo Publishing Firm: Rev J Hod Phypin (Edites Date: 9-10-56

REVIEWS OF MODERN PHYSICS

Influence of the expansion of space on the gravitation fields surrounding the individual stars, with E. G. Straus. vol. 17, pp. 120-124; corrections and additions, vol. 18, pp. 148-149.

Generalized theory of gravitation. vol. 20, pp. 35-39.

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4 September 1956

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Sur la théorie synthétique des champs, with Th. de Donder. vol. 25, pp. 35-39.

644 - 648 REVUE GEMÉRALE de l'ELECTRICITÉ 12, Place Henri-Bargson, PARIS (6°)

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30 August 1956

SCHWEIZERISCHE NATURFORSCHENDE GESELLSCHAFT, VERHANDLUNGEN (GESAMMELTE MATHEMATISCHE ABHANDLUNGEN) Verlag Birkhauser Elisabethenstr. 15 Basel, SWITZERLAND

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Robert Oppenhame

Prof.J.de Beaumont

Robert Oppenheimer

Approved:		SOCIETÉ MI			
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Date: 19	September 1957		-		

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> Physikalische Grundlagen und leitende Gedanken für eine Gravitationstheorie. Vol. 96, pt. 2, p. 146. (1913, 17) Gravitationstheorie. Vol. 96, pt. 2, pp. 137-138. (1913, 17) Über den Äther. vol. 105, pt. 2, pp. 85-93. (1924, 17)

SCHWEIZERISCHE NATURFORSCHENDE OESELLSCHAFT, VERHANDLUNGER

Physikalische Grundlagen und leitende Gedanken für eine Gravitationstheorie. Vol. 96, pt. 2, p. 146.

Gravitationstheorie. Vol. 96, pt. 2, pp. 137-138. Über den Äther. vol. 105, pt. 2, pp. 85-93. SEP 4 - 1955 THE INSTITUTE FOR ADVANCED STUDY PRINCETON, NEW JERSEY

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SCIENCE 1515 Massachusetts Ave., N.W. Washington 5, D.C.

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Eulinn hushace, Editor

Publishing Firm: American Association for the Advancement of Science

Date: <u>5 September 1956</u>

SCIENCE

(Letter to Royal Society on the occasion of the Newton bicentenary). new ser., vol. 65, pp. 347-348.

Establishment of an international bureau of meteorology. new ser., vol. 65, pp. 415_417.

Appreciation of Simon Newcomb. new ser., vol. 69, p. 249. (Translation of a letter to Newcomb's daughter dated July 15, 1926.)

Address at University of Nottingham, (transl. by Dr. I. H. Brose). new ser., vol. 71, pp. 608-610.

Thomas Alva Edison, 1847-1931. new ser., vol. 74, pp. 404-405.

Gravitational and electrical fields. (Translation of preliminary report for the Josiah Macy, Jr. foundation.) new ser., vol. 74, pp. 438-439.

(Reply to congratulatory addresses at a dinner given by the California Institute of Technology, January 15, 1931.) new ser., vol. 73, p. 379.

(Review of) R. TOIMAN: Relativity, thermodynamics and cosmology. new ser., vol. 80, p. 358.

Lens-like action of a star by deviation of light in the gravitational field. vol. 84, pp. 506-507.

Considerations concerning the fundamentals of theoretical physics. new ser., vol. 91, pp. 487-492.

SEP 6 - 1956

THE INSTITUTE FOR ADVANCED STUDY PRINCETON, NEW JERSEY

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4 September 1956

SCIENTIFIC MONTHLY American Association for the Advancement of Science 1515 Massachusetts Avenue, N.W. Washington 5, D.C.

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Robert Oppenheimer

Approved: <u>Lahme Unshane</u> Publishing Firm: <u>Am. Anoc. Order</u> Science Date: <u>G-Sept. 1956</u>

SCIENTIFIC MONTHLY

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The work and personality of Walter Nernst. vol. 54, pp. 195-196.

הוצאת ספרים עיש ייל מאננס, האוניברסיטה העברית THE MAGNES PRESS, THE HEBREW UNIVERSITY

Jerusalem31st October, 1956 vrive

The Institute for Advanced Study, Princeton, New Jersey, U.S.A.

attention Dr.R.Oppenheimer.

Dear Sirs,

We are in receipt of your circular of 30th August with regard to the publication tion of the collected scientific papers of Dr. Albert Einstein. We herewith grant you permission to publish the article listed by you, which appeared in the SCRIPTA. At the same time we should like to draw your attention to the fact that Professor Emanuel Wolkowski is at present in Princeton.

Yours sincerely,

A. Torn

H.Toren,) The Magnes Press, The Hebrew University.

SCRIPTA

Beweis der Nichtexistenz eines überall regulären zentrisch symmetrischen Feldes nach der Feldtheorie von Kaluza, with J. Grommer. JERUSALEM UNIVERSITY, SCRIPTA, vol. 1, no. 7, 5 pp.

THE INSTITUTE FOR ADVANCED STUDY PRINCETON, NEW JERSEY

OFFICE OF THE DIRECTOR

30 August 1956

SOCIETE FRANCAISE DE PHILOSOPHIE, BULLETIN Librarie Armond Colin 103, Boulevard Saint-Michel Paris Ve, FRANCE

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Approved: <u>Judico 2004</u> - <u>Suitaie</u> Publishing Firm: <u>SUITERE FILMANALSE DE PUBLICATIONE</u> Date: <u>3 o ch (u 1986</u> <u>SORBORINE</u> 17. Rue de la Scribonne, PARIS-Vo SOCIÉTÉ FRANÇAISE DE PHILOSOPHIE BULLETIN

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Théorie de relativité. vol. 22, pp. 97, 98, 101, 107, 111-112.





Grand H N I I I ISBAEL INSTITUTE OF TECHNOLOGY, Inc.

1000 FIFTH AVENUE

NATIONAL OFFICE:

September 21, 1956

NEW YORK 28, NEW YORK

Telephone: TRafalgar 9-8400

Dr. Robert Oppenheimer The Institute for Advanced Study Princeton, New Jersey

Dear Dr. Oppenheimer:

I am pleased to enclose a copy of your letter of September 4th in which you ask our approval for the publication of the paper. "Elementary derivation of the equivalence of mass and energy," from the TECHNION YEARBOOK (then known as the TECHNION JOURNAL), Volume 5, pages 16-17.

> The TECHNION YEARBOOK, as it is now called, is published by the American Society for Technion-Israel Institute of Technology, which is the newly-adopted corporate name for what used to be called the American Society for Advancement of the Hebrew Institute of Technology in Haifa.

With all good wishes,

Sincerely yours.

in

David C. Gross Editor, Technion Yearbook

DCG:eg

Enc.

> FELIX BLOCH Stanford University Stanford, California

JESS H. DAVIS Stevens Institute of Technology Hoboken, New Jersey

F. JULIUS FOHS Oil Geologist Houston, Texas

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4 September 1956

TECHNION JOURNAL American Society for the Advancement of the Hebrew Institute of Technology Haifa, Israel

Gentlemen:

The Institute for Advanced Study is planning to publish the collected scientific papers of Albert Einstein. In laying down general policy for this publication, we established an advisory committee consisting of M. Born, M. von Laue, W. Pauli, and H. Weyl T. Dr. Valentine Bargmann, associate professor of physics at Princeton University and a former colleague of Professor Einstein, is acting as general editor of the scientific papers, and the Princeton University Press will publish the volumes.

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With many thanks, and very sincerely,

Robert Offenhamen

Approved: David C. gross Publishing Firm: Arequean Society for TECHNION-ISRAEL INSTITUTE for Technology

TECHNION JOURNAL (Yearbook of American Society for Advancement of the Hebrew Institute of Technology in Haifa)

Elementary derivation of the equivalence of mass and energy. vol. 5, pp. 16-17.

Paris, 3.X.56

SOCIÉTÉ FRANÇAISE DE PHILOSOPHIE

SECRÉTAIRE :

SUZANNE DELORME 61. RUE DU MONT-CENIS PARIS 18⁵

Monsieur,

Nous nous excusons du retard apporté à la réponse à votre lettre du 30 août, retard dû aux vacances.

En ce qui la concerne, la

Société est d'accord pour la publication, dans le recueil que vous préparez des oeuvres scientifiques d'Einstein, des passages de sa conférence à la Société Française de Philosophie, en 1922.

Veuillez agréer, Monsieur, l'expression de nos sentiments les plus distingués.

Suzanne Delorme

THE INSTITUTE FOR ADVANCED STUDY PRINCETON, NEW JERSEY

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Robert Oppenheimer

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Über den gegenwärtigen stand der allgemeinen Relativitätstheorie. vol. 6, pp. 3-6.

THE INSTITUTE FOR ADVANCED STUDY

PRINCETON, NEW JERSEY

OFFICE OF THE DIRECTOR

30 August 1956

ZEITSCHRIFT FUR ELEKTROCHEMIE Verlag-Chemie Hauptstrasse 127 Weinheim, GERMANY

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Robert Oppenheimer

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Robert Oppenheimer fell admarologunt is made Approved: Yes fundi Publishing Firm: Haur Date: 21/Sch Sp

Foreword. p. vii-viii of Sir Isaac Newton: Optiks . . . reprinted from the 4th ed., (London, 1730).

McGRAW-HILL BOOK COMPANY · INC.

McGRAW-HILL BUILDING 330 WEST 42ND STREET NEW YORK 36, N.Y.

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September 14, 1956

Mr. Robert Oppenheimer The Institute of Advanced Study Princeton, New Jersey

Dear Mr. Oppenheimer:

Thank you for your letter of September 4 in regard to your plans to publish the collected scientific papers of Albert Einstein.

I am returning the copy of your letter in which you request our permission to include in your edition an excerpt from the book entitled OPTIKS by Sir Isaac Newton. As we acquired only the selling rights for the United States edition of this book we cannot authorize the reproduction of any of the material.

As the book was first published in Great Britain you must obtain a release directly from the original publisher, G. Bell & Sons Ltd., York House, 6 Portugal Street, London, W.C. 2, England.

I am sorry that we cannot be of assistance to you at this time.

Sincerely yours, aviorie matchel

Editorial Secretary

Μ

THE INSTITUTE FOR ADVANCED STUDY PRINCETON, NEW JERSEY

OFFICE OF THE DIRECTOR

4 September 1956

McGraw-Hill Book Company 330 West 42nd Street New York 36, New York

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OFFICE OF THE DIRECTOR

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With many thanks, and very sincerely,

Robert Ofpenhamen

Robert Oppenheimer

Approved: Tricile Wilder

Publishing Firm: Crown Publishers, Inc.

Date: October 9, 1956

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September 19, 1956

Dr. Robert Oppenheimer The Institute for Advanced Study Princeton, New Jersey

Dear Dr. Oppenheimer:

I wish I could be of assistance to you in connection with MAN AND THE UNIVERSE. While it was published by Covici-Friede, the mortal remains of Covici-Friede were purchased by Crown Publishers, 419 Fourth Avenue, New York 16. I do not know if they are the people to approach or whether Same Commins or Robert Linscott might be able to be of assistance to you. Doth of these gentlemen can be reached at Random House, 457 Madison Avenue, New York 22. But you may want to make inquiries of Crown Publishers first.

I'm terribly sorry that I can't be of assistance because my authorization would, for reasons given above, be useless.

My best to you, Donald Friede

Editor

DF/af



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September 17, 1956

Dr. Robert Oppenheimer Director The Institute for Advanced Study Princeton, New Jersey

Dear Dr. Oppenheimer:

I am returning the permission forms enclosed with your letter of September 13 unsigned, as copyright in the Einstein article, "The Problem of Space, Ether and the Field in Physics," is at present in the hands of Crown Publishers, Inc., 419 Fourth Avenue, New York 16. This article appears in their book, IDEAS AND OPINIONS, by Albert Einstein, 1954.

Sincerely yours,

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13 September 1956

Mr. Covici The Viking Press 625 Madison Avenue New York, New York

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Date:

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Approved:

Publishing Firm:_____

Date:_____

The problem of space, ether and the field in physics. Saxe, Commins, and R. N. Linscott, ed., MAN AND THE UNIVERSE.

14 September 1956

Dear Mr. Covici:

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> • As explained in the enclosed form letter, the Institute for Advanced Study is planning to publish a collection of Professor Einstein's previously published scientific writings; and we would like to include the above mentioned article. If you now control the copyrights for this article, we would like very much to receive an approved copy of the attached letter; if you do not control them, can you tell us who does?

With many thanks for your cooperation,

Very sincerely,

Robert Oppenheimer

Mr. Covici The Viking Press 625 Madison Avenue New York, New York

14 September 1956

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With many thanks for your cooperation,

Very sincerely,

Robert Oppenheimer

Mr. Friede World Publishing Company 119 West 57th Street New York, New York



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September 11, 1956

Dr. Robert Oppenheimer The Institute for Advanced Study Princeton, New Jersey

Dear Dr. Oppenheimer:

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Random House does not control the rights to the Einstein selection you wish to use in the forthcoming publication by Princeton University Press. We obtained permission to use it from Covici-Friede, a publishing firm no longer in existence. Mr. Covici is now with The Viking Press and Mr. Friede is an editor at World Publishing Company. We feel sure that either one of them can tell you who now controls the rights to this particular selection by Dr. Albert Einstein.

Yours sincerely,

Marjorie Currey

mc

MAN AND THE UNIVERSE

The problem of space, ether and the field in physics. pp. 471-482 of SAXE, COMMINS, and R. N. LINSCOTT, ed., <u>Man and the universe</u>. Random House.

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EDITORIAL OFFICES

CABLE ADDRESS "BONAQUI" TELEPHONE VANDERBILT 6-0600

September 25, 1956

Dr. Robert Oppenheimer The Institute for Advanced Study Princeton, New Jersey

Dear Dr. Oppenheimer:

In answer to your request for permission to include, in the collection of Albert Einstein's scientific papers that The Institute for Advanced Study is preparing, the section of the article on Relativity that he prepared for GROLIER ENCYCLOPEDIA: Permission is granted to reprint this article for this purpose, and provided you imprint a copyright notice reading as follows: Copyright 1956, The Grolier Society Inc.

For your convenience I enclose a copy of the material in question.

Yours sincerely,

Kenneth D. Sultyn

Kenneth D. Sultzer Executive Editor



Einstein's Theory of Relativity

Every physical theory makes use of a co-ordinate system (description of place) and of the concept of time. In classical mechanics, which was founded mainly by Galileo Galilei and Isaac Newton, the determinations of place are relative to an inertial system, *i.e.*, a system which is in such motion that Galilei's law of inertia is valid relative to it. According to this theory there exist infinitely many inertial systems which move uniformly with respect to each other; relative to every such system the laws (of classical mechanics) must be valid. Time is treated as an independent quantity which is the same for all inertial systems. The modern equivalence of these inertial systems is called the "special theory of relativity."

SPECIAL THEORY OF RELATIVITY. This theory has its origin in the conviction that the velocity of light

has the same value for all inertial systems, a conviction which is substantiated by many physical facts. Starting from this principle one arrives at the conclusion that the determinations of place (coordinates) and time are subject to different laws of transformation (for the passage from one inertial system to another) than was pre-viously tacitly assumed (Lorentztransformation). The content of the theory is the answer to the question: How must the known laws of nature be modified in order to account for the postulate of the constancy of the velocity of light? Hereby it was shown in particular hereby it was shown in particular that time is not "absolute," *i.e.*, independent of the choice of the inertial system. There further de-veloped a law of motion which deviates from Newton's for the case of high velocities (*i.e.*, not small in comparison to the velocity of light). Another result is the theorem $(E = mc^2)$ of the equivalence of the inertial mass m and the energy E of a system (velocity of light, c), which has achieved special importance for the theory of chemical elements and of radioactive processes.

GENERAL THEORY OF RELATIVITY. This theory is a generalization of the special theory of relativity, which removes the distinction of inertial systems as compared with co-ordinate systems of a different state of motion. This theory has its origin in a fact known for centuries that the inertia and the weight of a body are characterized by the same number (mass). It is in connection with this relation to weight that the theory has yielded a new law of gravitation, which is valid to a greater degree of accuracy than Newton's theory of gravitation.

The following question is characteristic for the entire theory of relativity: How must the laws of nature be constituted so that they are valid in the same form relative to arbitrary systems of co-ordinates (postulate of the invariance of the laws of nature relative to an arbitrary transformation of space and time)? ALBERT EINSTEIN

GROLIER ENCYCLOPEDIA

Einstein's theory of relativity. vol. 9, p. 19. GROLIER ENCYCLOPEDIA, New York, Grolier society, 1947 (actual date of issue 1948).

THE INSTITUTE FOR ADVANCED STUDY PRINCETON, NEW JERSEY

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Approved:	J.K. Cordy	
ADDIOVCU.	- A. Cortan	

Publishing Firm: Clarente Pres Ottan

Date: 19 September 1956.

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ON THE METHOD OF THEORETICAL PHYSICS. The Herbert Spencer lecture delivered at Oxford, June 10, 1933. Oxford, Clarendon press. 15 pp.

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Prentice-Hall 70 Fifth Avenue New York 11, New York

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Publish:	ing Firm:	Prenti	ce-Hall, Inc.		
Date:	Sept.	10, 1956			
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Foreword, p. v of Peter G. Bergmann, The Theory of Relativity. Copyright, 1942 by Prentice-Hall, Inc., Englewood Cliffs, N.J.

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INTRODUCTION TO THE THEORY OF RELATIVITY.

Forward. p. v of PETER G. BERGMANN: Introduction to the theory of relativity. New York, Prentice-Hall.

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Herrn

Professor Robert Oppenheimer Director of the Institute for Advanced Study

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Princeton /New Jersey USA

(17a) HEIDELBERG, den 5. September 1956 Neuenheimer Landstraße 24 Gtz/Jr. Telefon 2 79 01

Sehr geehrter Herr Frofessor Oppenheimer,

cover all poparing br. Wir bestätigen dankend den Empfang Ihrer Anfragen vom 30.8.56 betreffend Gesamtveröffent-Ok hurt Give full credit lichung der naturwissenschaftlichen Arbeiten von Professor Albert Einstein.

Wir erklären uns mit dem Abdruck aller Veröffentlichungen Professor Einsteins in unserem Verlage in Ihrer Sammelpublikation einverstanden unter der Bedingung ausführlicher, genauer Quellenangabe.

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8 Sept.

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> Quantentheoretische Bemerkungen zum Experiment von Stern und Gerlach, with P. Ehrenfest. vol. 11, pp. 31-34.

Bemerkung zu der Arbeit von A. Friedmann: Über die Krümmung des Raumes. vol. 11, p. 326.

Quantentheorie des Strahlungsgleichgewichts, with P. Ehrenfest. vol. 19, pp. 301-306.

Theorie der Radiometerkräfte. vol. 27, pp. 1-6.

(Note appended to paper by Bose: Warmegleichgewicht im Strahlungsfeld bei Anwesenheit von Materie). vol. 27, pp. 392-393.

Bemerkung zu P. Jordans Abhandlung: Theorie der Quantenstrahlung. vol. 31, pp. 784-785.

RELATIVITATSTHEORIE IN MATHEMATISCHER BEHANDLUNG

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> Anhang: Eddingtons Theorie und Hamiltonsches Prinzip. p. 366-371, of A. S. EDDINGTON. <u>Relativitätstheorie in mathematischer Behandlung</u>. Berlin, Springer.

KAISER WILHELM GESELLSCHAFT ZUR FORDERUNG DER WISSENSCHAFT

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> Einfache Anwendung des Newtonschen Gravitationsgesetzes auf die kugelförmigen Sternhaufen. pp. 50-52 of KAISER WILHEIM GESELISCHAFT ZUR FÖRDERUNG DER WISSENSCHAFT, Festschrift . . . zu ihrem zehnjährigen Jubiläum . . Berlin, Springer.

GEOMETRIE UND ERFAHRUNG

15

ERWEITERTE FASSUNG DES FESTVORTRAGES GEHALTEN AN DER PREUSSISCHEN AKADEMIE. Berlin, Springer, 20 pp.

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REDE GEHALTEN AM 5. MAI 1920 AN DER REICHS-UNIVERSITÄT ZU LEIDEN. Berlin, Springer. 15 pp. GRUNDLAGEN DER EINSTEINSCHEN GRAVITATIONSTHEORIE.

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Vorwort (Erwin F. Freundlich). Berlin, Springer. (1916)

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Max Planck als Forscher. vol. 1, pp. 1077-1079.

(Review of) H. A. Lorentz: Das Relativitätsprinzip. vol. 2, p. 1018.

Experimenteller Nachweis der Ampèreschen Molekularströme, with W. J. de Haas. vol. 3, pp. 237-238.

(Review of) H. A. Lorentz: Theories statistiques en thermodynamique. vol. 4, pp. 480-481.

Elementare Theorie der Wasserwellen und des Fluges. vol. 4, pp. 509-510.

(Review of) H. v. Helmholtz: Zwei Vorträge über Goethe. vol. 5, p. 675.

Marian von Smoluchowski. vol. 5, pp. 737-738.

(Review of) H. Weyl: Raum, Zeit, Materie. vol. 6, p. 373.

Dialog über Einwände gegen die Relativitätstheorie. vol. 6, pp. 697-702.

Prüfung der allgemeinen Relativitätstheorie. vol. 7, p. 776.

Inwiefern lässt sich die moderne Gravitationstheorie ohne die Relativität begründen? vol. 8, pp. 1010-1011.

(Review of) W. Pauli: Relativitätstheorie. vol. 10, pp. 184-185.

Emil Warburg als Forscher. vol. 10, pp. 823-828.

Zum hundertjährigen Gedenktag von Lord Kelvins Geburt. vol. 12, pp. 601-602.

Ursache der Mäanderbildung der Flussläufe und des sogenannten Baerschen Gesetzes. vol. 14, pp. 223-224.

Vorschlag zu einem die Natur des elementaren Strahlungs-emissions-prozesses betreffenden Experiment. vol. 14, pp. 300-301.

Newtons Mechanik und ihr Einfluss auf die Gestaltung der theoretischen Physik. vol. 15, pp. 273-276.

(Note appended to a reprinting of Arago's Memorial address on Thomas Young before the French Academy.) vol. 17, p. 363.

(Review of) S. Weinberg: Erkenntnistheorie. vol. 18, pp. 536.

Zu Dr. Berliners siebzigstem Geburtstag. vol. 20, p. 913.

MATHEMATISCHE ANNALEN

Formale Beziehung des Riemannschen Krümmungstensors zu den Feldgleichungen der Gravitation. vol. 97, pp. 99-103.

V

Auf die Riemann-Metrik und den Fern-Parallelismus gegründete einheitliche Feldtheorie. vol. 102, pp. 685-697.



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Herrn Professor Robert Oppenheimer Director of the Institute for Advanced Study Princeton/New Jersey USA

Betr. Vierteljahresschrift für Gerichtliche Medizin.

Sehr geehrter Herr Professor,

Ihre Anfrage vom 8. September 56 wurde uns zuständigkeitshalber von unserem Berliner Haus zugeleitet. Wir erlauben uns, auf unser Schreiben vom 5. September 56 hinzuweisen, mit welchem wir uns mit dem Abdruck aller Veröffentlichungen Professor Einsteins in unserem Verlage in Ihrer Sammel-Publikation einverstanden erklärten, unter der Bedingung ausführlicher, genauer Quellenangabe.

Unter derselben Bedingung erteilen wir auch unsere Genehmigung zum Abdruck der Arbeit "Gibt es eine Gravitationswirkung die der elektrodynamischen Induktionswirkung analog ist?" aus Vierteljahresschrift für Gerichtliche Medizin, ser. 3, vol. 44, pp.37 - 40.

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LEIPZIG C1, Goldschmidtstr.28

30.8.56

Math.Tr.Jo.

5. September 1956

Sehr geehrte Herren!

Wir empfingen Ihre Schreiben vom 30. v. Ms., mit denen Sie uns um die Genehmigung bitten, einige Beiträge aus unserem Verlagswerk "Die Physik" aus dem Band der Kultur der Gegenwart und aus der Zeitschrift für Mathematik und Physik, 62. und 63. Band, die von Herrn Prof. Einstein herrühren, zu entnehmen. Es handelt sich um die folgenden:

> Kultur der Gegenwart, III. Teil, 3. Abt. 1.Band: Physik 2. Auflage 1925 Teubner, Leipzig Theoretische Atomistik. pp. 251-263 Redaktion von E. Lecher Relativitätstheorie. pp. 703-713 Teubner, Leipzig. 22 Theoretische Atomistik. pp. 281-294 11 Relativitätstheorie. pp. 783-797 37

Entwurf einer verallgemeinerten Relativitätstheorie und eine Theorie der Gravitation. I. Physikalischer Teil von A. Einstein, 11. Mathematischer Teil von M. Grossmann Leipzig, Teubner 38 pp. Sonderdruck aus Zeitschrift für Mathematik und Physik, Bd. 62, pp. 225-261 (Physikalischer Teil, pp. 225-244).

Kovarianzeigenschaften der Feldgleichungen der auf die verallgemeinerte Relativitätstheorie gegründeten Gravitationstheorie, mit M. Grossmann, Bd. 63, pp. 215-225.

Wir setzen dabei eine genaue Quellenangabe mit Hinweis auf unseren Verlag voraus. Je ein Exemplar Ihrer Anfrageschreiben, die wir wunschgemäß unterzeichnet haben, fügen wir bei.

In vorzüglicher Hochachtung

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THE INSTITUTE FOR ADVANCED STUDY PRINCETON, NEW JERSEY

OFFICE OF THE DIRECTOR

30 August 1956

ZEITSCHRIFT FUR MATHEMATIK UND PHYSIK von Dr. O. Schlomilch, Dr. E. Kahl und Dr. M. Cantor Leipzig, GERMANY

Gentlemen:

The Institute for Advanced Study is planning to publish the collected scientific papers of Albert Einstein. In laying down general policy for this publication, we established an advisory committee consisting of M. Born, M. von Laue, W. Pauli, and H. Weyl[†]. Dr. Valentine Bargmann, associate professor of physics at Princeton University and a former colleague of Professor Einstein, is acting as general editor of the scientific papers, and the Princeton University Press will publish the volumes.

I am writing now to ask you to approve inclusion in our edition of the scientific papers of the items on the attached list. We are aware that the Estate of Albert Einstein is contemplating a complete edition of Professor Einstein's writings. Our project is entirely separate from that, and will include only published, scientific writings.

I am hopeful that you will approve the inclusion of this material in the definitive collection of Professor Einstein's scientific writings. Please sign below and return to me one copy of this letter.

With many thanks, and very sincerely,

Robert Offenhamen

Robert Oppenheimer

Approved: Yes

Publishing Firm: B. G. Teubner Leipzig

Date: 4. September 1956

ZETTSCHRIFT FUR MATHEMATIK UND PHYSIK

ENTWURF EINER VERALLGEMEINERTEN RELATIVITÄTSTHEORIE UND EINE THEORIE DIE GRAVITATION. I. Physikalischer Teil von A. Einstein. II. Mathematischer Teil von M. Grossmann. Leipzig, Teubner. 38 pp. Sonderdruck aus Zeitschrift für Mathematik und Physik, vol. 62, pp. 225-261 (Physikalischer Teil, pp. 225-244).

Kovarianzeigenschaften der Feldgleichungen der auf die verallgemeinerte Relativitätstheorie gegründeten Gravitationstheorie, with M. Grossmann. vol. 63, pp. 215-225.

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DIE PHYSIK

Theoretische Atomistik. pp. 251-263 of <u>Die Physik</u> unter Redaktion von E. Lecher. Leipzig, Teubner. (Kultur der Gegenwart, teil 3, abt. 3, bd. 1.).

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Relativitätstheorie. pp. 703-713.

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> Theoretische Atomistik. pp. 281-294 of <u>Die Physik</u>, 2. Aufl. Leipzig, Teubner. Relativitätstheorie. pp. 783-797 of <u>Die Physik</u>, 2. Aufl. Leipzig, Teubner.

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With the understanding, of course, that acknowledgment will be made and full credit given to the place of the original appearance of this paper. P.A.S.

THE PHILOSOPHY OF BERTRAND RUSSELL

Remarks on Bertrand Russell's theory of knowledge. pp. 277-291 of <u>The</u> <u>Philosophy of Bertrand Russell</u>, edited by Paul A. Schilpp. Evanston, New York, <u>Northwestern University</u>. (Library of living philosophers, vol. 5) Tudor Fublishing Company.

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There will be no objection so far as we are concerned to your including this in your edition. On the other hand, it is not intended by this consent to exclude the publication of the article from the edition contemplated by the Einstein Estate, should they desire to use it.

Yours faithfully,

Peters Jon house

Acting Editor.

Professor Robert Oppenheimer.

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30 August 1956

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Isaac Newton. vol. 16, pp. 234-235.

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Full acknowledgment, should of course be given to The Times.

Yours sincerely,

an Hinton

Ian Hinton.

Robert Oppenheimer Esq., The Insitute for Advanced Study, Princeton, New Jersey. TIMES (London)

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Mein Zeichen JG RI

Tag 10.9.56

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(Report of lecture at King's College on the development and present position of relativity, with quotations), NATION AND ATHENAEUM, vol. 29, pp. 431-432.

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ASSO (COMO, ITALIE) 17 Septembre 1956

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PRINCETON (New Jersey, USA)

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Nous vous donnons l'autorisation à l'inclusion, dans votre collection scientifique des travaux de M. le Prof. Albert Einstein, de l'article Zum Relativitätsproblem, paru dans notre Revue "Scientia" fasc. 3/1914. Toutefois vous devrez clairement indiquer le

nom et l'adresse de notre Revue et le fascicule dans lequel a été publié le susdit article: "SCIENTIA", ASSO (Como), fasc. 3/1914.

Ci-jointe nous vous retournons une copie de votre lettre convenablement signé.

Agréez, Messieurs, nos salutations les plus distinguées. D. "SCIENTIA,

12 onto

(Dott. Paolo Bonetti)

THE INSTITUTE FOR ADVANCED STUDY

JAN A

PRINCETON, NEW JERSEY

OFFICE OF THE DIRECTOR

4 September 1956

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Zum Relativitätsproblem. Scientia (Bologna), vol. 15, pp. 337-348.

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Ihre Zeichen

Ihre Nachricht vom

Unser Zeichen HKö/P. Schuhmachergäßchen 1-3

Sehr geehrter Herr Oppenheimer,

wir erhielten Ihre beiden Schreiben vom 30.8.56, mit denen Sie die Genehmigung erbitten, 11 Arbeiten des Herrn Professor Einstein aus der "Physikalischen Zeitschrift" und 2 Arbeiten aus dem "Jahrbuch der Radioaktivität und Elektronik" in einem Sammelband der wissenschaftlichen Arbeiten des Herrn Professor Einstein, den die Princeton University Press publizieren will, zu veröffentlichen

Wir sind damit einverstanden und bitten um die übliche Quellenangabe.

Die beiden Durchschriften Ihrer Briefe fügen wir unterzeichnet bei.

> Mit vorzüglicher Hochachtung S. Hirzel Verlag in Verwaltung

Anlagen

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THE INSTITUTE FOR ADVANCED STUDY PRINCETON, NEW JERSEY

OFFICE OF THE DIRECTOR

30 August 1956

PHYSIKALISCHE ZEITSCHRIFT Verlag Von S. Hirzel Schuhmachergasschen 1/3 Leipzig, GERMANY

Gentlemen:

The Institute for Advanced Study is planning to publish the collected scientific papers of Albert Einstein. In laying down general policy for this publication, we established an advisory committee consisting of M. Born, M. von Laue, W. Pauli, and H. Weyl[†]. Dr. Valentine Bargmann, associate professor of physics at Princeton University and a former colleague of Professor Einstein, is acting as general editor of the scientific papers, and the Princeton University Press will publish the volumes.

I am writing now to ask you to approve inclusion in our edition of the scientific papers of the items on the attached list. We are aware that the Estate of Albert Einstein is contemplating a complete edition of Professor Einstein's writings. Our project is entirely separate from that, and will include only published, scientific writings.

I am hopeful that you will approve the inclusion of this material in the definitive collection of Professor Einstein's scientific writings. Please sign below and return to me one copy of this letter.

With many thanks, and very sincerely,

Robert Offenhamen

Robert Oppenheimer

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Neue elektrostatische Methode zur Messung kleiner Elektrizitätsmengen. vol. 9; pp. 216-217.

Zum gegenwärtigen Stande des Strahlungsproblems. vol. 10, pp. 185-193.

Entwicklung unserer Anschauungen über das Wesen und die Konstitution der Strahlung. vol. 10, pp. 817-825.

Zum Ehrenfestschen Paradoxon. vol. 12, pp. 509-510.

Zum gegenwärtigen Stande des Gravitationsproblems. vol. 14, pp. 1249-1266.

Nachträgliche Antwort auf eine Frage von Reissner. vol. 15, pp. 108-110.

Principielles zur verallgemeinerten Relativitätstheorie und Gravitationstheorie. vol. 15, pp. 176-180.

Ernst Mach. vol. 17, pp. 101-104.

Quantentheorie der Strahlung. vol. 18, pp. 121-128.

Notis zu Schrödingers Arbeit: Energiekomponenten des Gravitationsfeldes. vol. 19, pp. 115-116.

Bemerkung zu Schrödingers Notiz: Lösungssystem der allgemein kovarianten Gravitationsgleichungen. vol. 19, pp. 165-166. Records of the Office of the Director / Faculty Files / Box 10 / Einstein, Albert -- Papers, Publication by IAS-Permissions From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

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DR. DIETRICH STEINKOPFF

VERLAGSBUCHHANDLUNG . DARMSTADT . HOLZHOFALLEE 36. 709

The Institute for Advanced Study Office of the Director 5. Sept.1956

There were

In 57 1951Earlos

Princeton, N.J., U.S.A.

Betr .: "Kolloid-Zeitschrift" Sehr geehrte Herren,

Ich erhielt Ihr Schreiben vom 30. August und bin damit einverstanden, dass Sie den Beitrag von Albert E instein

"Bemerkung zur Abhandlung von W.R. Hess: Theorie der Viscosität heterogener Systeme"

aus der "Kolloid-Zeitschrift", Bd.27, S.137 (1920) in der Veröffentlichung des wissenschaftlichen Gesamtwerks von Albert Einstein abdrucken. Dabei darf ich um genaue Zitierung der bibliographischen Daten der Originalarbeit bitten.

Das mir übersandte Formular gebe ich Ihnen anbei mit Genehmigungsvermerk zurück.

Kallad Zeitschift Dr. Dietrich Reinkopff Verlag (Dr. Dietrich Steinkopff)

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OFFICE OF THE DIRECTOR

30 August 1956

KOLLOID ZEITSCHRIFT Verlag Dr. Dietrich Steinkopf Holzhofalle 35 Darmstadt, GERMANY

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(Darmstadt Holzhofallee 35

Robert Offenhamen

Robert Oppenheimer

Approved:_

Publishing Firm: Dr. Dietrich Steinkopff Verlag

Date: 3. September 1956

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Bemerkung zur Abhandlung von W. R. Hess: Theorie der Viscosität heterogener Systeme. vol. 227, p. 137.