

THE INSTITUTE FOR ADVANCED STUDY

Historical Studies - Social Science Library

ITEMS REMOVED : PAIS, ABRAHAM - 1951 -1963

1) Abraham Pais, Who's Who in America.

2) Advertisement for Oxford University Press Fall  
Catalogue of "Subtle Is The Lord ..." by Abraham Pais.

11 September 1964

Dear Dr. Pais:

Thank you for your letter of September 10.

I am enclosing six additional copies of the reprint  
from the April 1964 volume of "Reviews of Modern  
Physics".

Sincerely yours,

Encs.

(Mrs. J.R. Haymes, Jr.)  
Office of the Director

Dr. A. Pais  
The Rockefeller Institute  
New York 21, New York

# THE ROCKEFELLER INSTITUTE

*A Graduate University and Research Center*

NEW YORK 21, NEW YORK

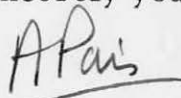
September 10, 1964

Mrs. J. R. Haymes, Jr.  
Office of the Director  
The Institute for Advanced Study  
Princeton, New Jersey

Dear Mrs. Haymes:

Thank you for letter of July 1, and the reprint from the April 1964 volume of "Reviews of Modern Physics". I would appreciate you sending me six additional copies if possible.

Sincerely yours,

A handwritten signature in cursive script that reads "A Pais". The signature is written in dark ink and is positioned above the printed name.

A. Pais

THE INSTITUTE FOR ADVANCED STUDY  
School of Natural Sciences  
Theoretical Physics Seminars

✓ Tuesday, February 18, 1969, 4:15 p. m.

Library Wing

Speaker: Professor Roy Glauber  
Harvard University

Subject: An Introduction to Quantum Optics

✓ Tuesday, February 25, 1969, 4:15 p. m.

Library Wing

Speaker: Professor Abram Pais  
Rockefeller University

Subject: Content and Uses of Lepton Pair Locality

*former fac. - Pais*

CLASS OF SERVICE

This is a fast message unless its deferred character is indicated by the proper symbol.

# WESTERN UNION TELEGRAM

W. P. MARSHALL, PRESIDENT

1201

SYMBOLS

DL=Day Letter

NL=Night Letter

LT=International Letter Telegram

The filing time shown in the date line on domestic telegrams is STANDARD TIME at point of origin. Time of receipt is STANDARD TIME at point of destination

Prof. A. Pais  
Sheraton Park Hotel  
Washington D. C.

*sent 4/22/63*

*also please*

A brief faculty meeting scheduled for noon Friday. Regret inconvenience. Could you ask Aage Bohr to call me soonest. All greetings,

Robert

July 1, 1964

Dear Dr. Pais:

The enclosed reprint from the April, 1964 volume of "Reviews of Modern Physics" has been received. If you would like several more copies, please let us know. We shall be glad to forward them to you.

Sincerely yours,

Enclosure

(Mrs. J. R. Haynes, Jr.)  
Office of the Director

Dr. A. Pais  
The Rockefeller Institute  
New York 21, New York

THE INSTITUTE FOR ADVANCED STUDY  
PRINCETON, NEW JERSEY

OFFICE OF THE DIRECTOR

20 May 1963

To the Faculty of the Institute for Advanced Study:

Late in April, Professor Pais told me that he planned to resign his professorship at this Institute and accept one at the Rockefeller Institute in New York. He would like this change to become effective at the end of our academic year, a little over a month from now.

We agreed that we would not speak of these plans until my return from Europe. I now have Pais' letter of resignation, a copy of which is enclosed, and I think that before long the matter will be generally known.

Robert Oppenheimer

C  
O  
P  
Y

THE INSTITUTE FOR ADVANCED STUDY  
Princeton, New Jersey

School of Mathematics

May 15, 1963

Dear Robert:

I have decided to resign from my present position at the Institute.

For many years I have known that at some point I would want to establish a different balance between my continued prime concern, to do research, and the need I feel to blend this activity with a certain amount of teaching. I am hopeful that the new environment which I have chosen will afford me the right opportunity for this. My time has come and I must be on my way.

The detailed timing of this move has been determined to a considerable extent by my desire not to leave until the recent faculty developments at the Institute would take a hopeful turn, as I now believe they have. These developments have been of the profoundest concern to my colleagues, as they have been to me. It is clear that further discussion will be necessary in order to see more clearly the role and the functioning of the Institute, so that it may continue to realize its unique potential in a changing world.

It goes without saying that I want to retain very close ties with the Institute insofar as physics is concerned. In addition to this, however, I would like to express to you my continued and undiminished interest in the future of the Institute as a whole.

I leave the Institute with a sense of gratitude, to you and to all others to whom I owe so much for growth, stimulus and friendship.

As ever,

/s/ Bram

A. Pais

Professor Robert Oppenheimer  
The Institute for Advanced Study



Fac Pais

THE INSTITUTE FOR ADVANCED STUDY  
PRINCETON, NEW JERSEY

OFFICE OF THE DIRECTOR

20 May 1963

To the Board of Trustees of the Institute for Advanced Study:

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We agreed that we would not speak of these plans until my return from Europe. I now have Pais' letter of resignation, a copy of which is enclosed, and I think that before long the matter will be generally known.

Robert Oppenheimer

21 March 1943

Memorandum to Professors Baurling, Borel, Godel,  
Montgomery, Selberg, Weil, Whitney:

As you see, Professor Pais has asked  
me that I show you this letter.

Robert Oppenheimer

C  
O  
P  
Y

THE INSTITUTE FOR ADVANCED STUDY  
Princeton, New Jersey

School of Mathematics

March 14, 1963

Dear Robert:

I wish to convey to you some observations in connection with the proposals made by the mathematics faculty members of the School of Mathematics concerning appointments for Hörmander and Harish-Chandra.

First and foremost I would like to express my hope that a procedure can be worked out which will make it possible to extend appointment offers to these two men at the earliest opportunity. I hope, specifically, that these offers could be made right after the forthcoming April meeting of the Board of Trustees.

I would like to state, however, that on one point the procedures followed so far in this instance are in my view unsatisfactory. (There are important questions concerning the role of the School of Mathematics and concerning the role of the Faculty as a whole. Important as they are, I wish to leave them aside for a moment and to return to them later.) This concerns the role of Trustees with regard to Institute activities.

I am gravely concerned about the fact that the mathematicians' proposals are addressed to the Director and the Trustees. This is in direct conflict with our bylaws which state that the Director shall be responsible for communicating to the Trustees views of the Faculty on all matters affecting the Institute.

Now first of all this rule exists, and we have to live with it until further notice. But secondly, on this point I would not wish to see the bylaws changed. For to do so would mean potential interference of Trustees in matters where such interference is not called for.

I therefore urge that a consultation be held to clarify and modify the proposal to the effect that it be addressed to the Director. This, to my mind, is a necessary condition for establishing a procedure that is free of ambiguity and that is acceptable to me as a Faculty member.

I would like to add that to me it is for the moment also a sufficient condition. I would have welcomed very much a full school meeting in which I might have learned more and also more easily about these proposals. But I am not prepared to make a production out of this. The institution of full faculty discussion is on the rocks at the moment, as everybody concerned knows. I regret this. I <sup>hope</sup> this will change. In fact it has to change. But I am not prepared to say that the time for change has arrived yet.

Dr. Robert Oppenheimer

2

March 14, 1963

In more than 16 years of association with the Institute I have never known a moment at which, for several reasons, the status of this Institute has looked as dark to me as it does today. The best thing at this stage is to do something constructive. Let us see if these appointments can be handled in an atmosphere, if perhaps not of brotherly love, then at least of increased mutual trust and free of ambiguity.

There exists no copy of this letter, except for my own carbon. If you think it useful, please show this letter to anyone you like. However, I want to ask specifically that you show this letter to my mathematics colleagues.

This letter is signed by me alone. This does not imply a divergence of views between me and my friends Dyson, Strömberg and Yang. However, I feel that a personal expression of views is called for and I am tired of manifestos.

As ever,

/s/ Bran

Abraham Pais

AP:jp

Pais

August 15, 1963

Dear Professor Pais:

Enclosed is the information that you asked for on Professor Dyson, a statement and a list of publications. We had to get the list of publications made up from what we had here in the office, as there seems to be no current list available. I hope it is complete. As for his citizenship, the Trenton Post Office has on record that he became a citizen on December 27, 1957.

Our regards to you, and if we can help you in any other way, please do let us know.

Sincerely yours,

(Mrs. William Grander)  
Office of the Director

Professor Abraham Pais  
Brookhaven National Laboratories  
Upton, Long Island  
New York

THE INSTITUTE FOR ADVANCED STUDY  
PRINCETON, NEW JERSEY

SCHOOL OF MATHEMATICS

May 15, 1963

Dear Robert:

I have decided to resign from my present position at the Institute.

For many years I have known that at some point I would want to establish a different balance between my continued prime concern, to do research, and the need I feel to blend this activity with a certain amount of teaching. I am hopeful that the new environment which I have chosen will afford me the right opportunity for this. My time has come and I must be on my way.

The detailed timing of this move has been determined to a considerable extent by my desire not to leave until the recent faculty developments at the Institute would take a hopeful turn, as I now believe they have. These developments have been of the profoundest concern to my colleagues, as they have been to me. It is clear that further discussion will be necessary in order to see more clearly the role and the functioning of the Institute, so that it may continue to realize its unique potential in a changing world.

It goes without saying that I want to retain very close ties with the Institute insofar as physics is concerned. In addition to this, however, I would like to express to you my continued and undiminished interest in the future of the Institute as a whole.

I leave the Institute with a sense of gratitude, to you and to all others to whom I owe so much for growth, stimulus and friendship.

As ever,

Bram.

A. Pais

Professor Robert Oppenheimer  
The Institute for Advanced Study

Pais

INSTITUTE FOR ADVANCED STUDY

Theoretical Physics Seminar  
Seminar Room, Building E, 4:15 p. m.

Tuesday, March 26, 1963

Professor A. Pais, I. A. S.

will speak on

"A Field Theory of Weak Interactions, I"

Tuesday, April 2, 1963

Professor G. E. Uhlenbeck, Rockefeller Institute

will speak on

"On the Van der Waals Theory of Phase Transitions"

Tuesday, April 9, 1963

Professor G. C. Wick, Brookhaven National Laboratory

will speak on

"Higher Symmetries, a Summary"

*Pais*

NATIONAL ACADEMY OF SCIENCES  
NATIONAL RESEARCH COUNCIL

2101 CONSTITUTION AVENUE, WASHINGTON 25, D. C.

OFFICE OF INFORMATION

March 26, 1963

Director  
Public Information Office  
The Institute for Advanced Study  
Princeton, New Jersey

Dear Sir:

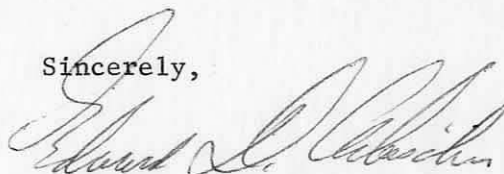
Dr. A Pais of your institution will deliver a paper, "A Field Theory of Weak Interactions", at the 100th Annual Meeting of the National Academy of Sciences, April 22-24 in Washington.

You will note from the enclosed carbon of a letter to Dr. Pais that we have asked his assistance in the preparation of non-technical material for the use of reporters covering the meeting. As someone dealing with science information, I am sure that you appreciate the importance of this technique in facilitating press coverage.

This office would be most grateful if you will do what you can to further the preparation of this press summary so that it can reach our office by April 16.

Please let me know if you wish to be notified of our release date so that you can make a simultaneous release from your own institution.

Sincerely,



Edward D. Aebischer  
Assistant to the Director  
Office of Information

Enclosure



NATIONAL ACADEMY OF SCIENCES  
NATIONAL RESEARCH COUNCIL

2101 CONSTITUTION AVENUE, WASHINGTON 25, D. C.

OFFICE OF INFORMATION

March 25, 1963

Dr. A. Pais  
The Institute for Advanced Study  
Princeton, New Jersey

Dear Dr. Pais:

I am writing to ask your help in obtaining accurate and informative press coverage of the 100th Annual Meeting of the National Academy of Sciences, April 22-24, in Washington.

Because your paper is likely to be of public interest, I hope you will be able to find time to prepare for the press a non-technical summary of 500 to 1000 words that would describe not only the main features of your work but also its relation to general progress in the field, the inviting leads it presents for further discovery, and any implications of these findings that may strike you as being of public concern.

Your advance summary will be of most use if we can have it by April 15, if possible, so that it may be duplicated for distribution to the press. In addition, an advance copy of your complete text, if you intend to prepare one, would be an invaluable supplement to our press-room facilities. Please address them to me at the Academy.

All such material, of course, will be held for release to the press at the time of your presentation.

May I thank you in advance for your efforts to help promote a better understanding and appreciation of science among the general public.

Sincerely,

Edward D. Aebischer  
Assistant to the Director  
Office of Information

**FURTHER DISCUSSION ON FIELD THEORY OF WEAK INTERACTIONS**

**Thursday, March 28, 1:30 p. m.**

**Seminar Room, Building E**

**A. Pais**

June 13, 1962

Dr. Abraham Pais  
The Institute for Advanced Study

Dear Bram:

Dr. Oppenheimer has asked me to write you about your pension arrangements. At the meeting of the Board of Trustees held in Princeton on April 6 and 7, the Board voted to increase faculty salaries to \$25,000 and increase the minimum guaranteed pension through TIAA-CREF to \$15,000.

The standard 5% contribution by the professor matched by a 5% contribution by the Institute for the balance of your tenure as an active professor will not produce the minimum guarantee, and the Institute is therefore adding \$41.17 to the monthly payments in your behalf to TIAA-CREF.

You should know also that the Major Medical contract with TIAA has been modified to reduce the deductible after Blue Cross from \$200 to \$100.

Cordially yours,

Minot C. Morgan, Jr.  
General Manager

MCM: lw

6 June 1962

Dear Mr. Chance:

Your letter of May 18th was forwarded to this office by Mr. DeLong, since the Institute for Advanced Study is not a part of Princeton University. Nor do we have a public relations department, or a file of photographs or biographical information on our members. I have checked with Professor Pais, and he has asked me to refer you to American Men of Science and Who's Who. There is one piece of information that will not appear in their listings, and that is that Professor Pais was this year elected to the National Academy of Sciences.

We are sorry that we cannot be of more help.

Sincerely yours,

(Mrs. Wilder Hobson)  
Secretary to the Director

Mr. Elbert Chance  
University of Delaware  
Newark, Delaware

UNIVERSITY OF DELAWARE  
NEWARK, DELAWARE

*Blumenhardt*

ALUMNI & PUBLIC RELATIONS

May 18, 1962

Mr. Edmond S. DeLong  
Director, Public Information  
Princeton University  
Princeton, New Jersey

Dear Mr. DeLong:

I have been informed by a member of our  
Philosophy Department that Professor A. Pais,  
Institute for Advanced Study, will appear in our  
Philosophy of Science Seminar next year.

In order to publicize his participation,  
both in the University publications and the local  
press, I will greatly appreciate receiving a  
glossy photograph and biographical information.

Thanks for your assistance.

Sincerely,

*Elbert Chance*  
Elbert Chance  
Director

EC:ef

*Jane - would Bram like  
to handle this - or  
have us write that we  
have no picture file,  
and refer them to  
Gen. Sec. of Sci. for  
info  
L + Who's Who.  
Verna*

*Thanks -  
Bram*

*Yes*

*NO*

Pais

**CLASS OF SERVICE**

This is a fast message unless its deferred character is indicated by the proper symbol.

# WESTERN UNION TELEGRAM

W. P. MARSHALL, PRESIDENT

1201 (4-60)

**SYMBOLS**

DL=Day Letter

NL=Night Letter

LT=International Letter Telegram

The filing time shown in the date line on domestic telegrams is LOCAL TIME at point of origin. Time of receipt is LOCAL TIME at point of destination

PA206 BC621

B WWY284 WWZ19 WWZ19 GOVT PD=FAX WASHINGTON DC 24 NET=

1962 APR 24 PM 7 37

OFFICE OF PUBLIC INFORMATION=

PRINCETON UNIVERSITY PRINCETON NJER=

YOUR PRESIDENT HAS BEEN NOTIFIED THAT ABRAHAM PAIS OF  
YOUR INSTITUTION HAS BEEN ELECTED MEMBER NATIONAL ACADEMY  
OF SCIENCES=

HOWARD J LEWIS NATIONAL ACADEMY OF SCIENCES

*Pais*

Theoretical Physics Seminar  
The Institute for Advanced Study

Tuesday, November 7, 1961, at 4:15 p. m., Seminar Room, E Building

Professor A. Pais

A REMARK ON THE ALGEBRA OF INTERACTIONS

THE INSTITUTE FOR ADVANCED STUDY  
PRINCETON, NEW JERSEY

SCHOOL OF MATHEMATICS

March 6, 1961

Dear Robert:

The purpose of this letter is to inform you in further detail about my correspondence with the Lawrence Radiation Laboratory. A copy of all the pertinent correspondence is in your hands.

A fundamental aspect of the situation has not been stated in these letters. This is that I shall be paid by the Radiation Laboratory whenever I am in Berkeley and only then. Thus the annual salary mentioned in Suttle's letter serves as a basis for what may best be called a permanent consultantship.

Regarding leaves of absence from the Institute. Thus far I have taken  $1\frac{1}{2}$  years leave since I arrived at the Institute. Effectively this corresponds to less than one part in seven. I am sure I shall not wait another seven years before requesting a year off. I could very well imagine that I might come to you within the next two academic years with the request for a term off. I truly cannot put things more sharply, but I am sure that the intents here stated will clarify sufficiently the scale of the operation.

It should be added that the permanent consultantship is convertible at any time into a full time job. At present I have no intention at all to make use of this.

yours

Bram

AP:jk



3 March 1961

Dear Bram:

The Institute consists of anomalies; but this is, I think, the first time that a member of our faculty has had a full time concurrent tenure position elsewhere. I am glad to have the copies of the exchange of letters that you sent me; but I think that for the sake of the record, and because questions may arise when I, and even you, are not around to answer them, you should write me a brief note indicating your intentions, either for the next few years or "until further notice", as to your being in residence at the Institute, and your probable leaves of absence. Your "words may be as vague as your thoughts", but I think that it would be better to have them on paper, whatever they are.

Robert Oppenheimer

Professor A. Pais  
The Institute for Advanced Study

THE INSTITUTE FOR ADVANCED STUDY  
PRINCETON, NEW JERSEY

February 27, 1961

Dr. John F. Suttle  
Lawrence Radiation Laboratory  
University of California  
Berkeley 4, California

Dear John:

Thank you so much for your letter of January 25. I am glad to accept the terms of this letter as a basis on which I shall be able to be at the Lawrence Radiation Laboratory at suitable times.

While I am indeed happy to have a permanent attachment with the Laboratory I should at the same time say that I am not (or at least not for the present) contemplating to make Berkeley my permanent headquarters.

With best personal regards,

Sincerely yours,

Abraham Pais

AP:jk

c. c. Dr. J. R. Oppenheimer  
Enclosure (photostat of J. Suttle's letter)

UNIVERSITY OF CALIFORNIA

LAWRENCE RADIATION LABORATORY  
BERKELEY 4, CALIFORNIA

January 25, 1961

Professor Abraham Pais  
The Institute for Advanced Study  
Princeton, New Jersey

Dear Bram:

Ed McMillan has told me of his recent telephone conversation with you regarding a permanent appointment for you at the Laboratory. I am pleased to confirm formally the offer of \$25,000.00 a year, subject to our usual administrative approvals. In addition, the Laboratory will reimburse you for travel expenses for yourself and family in accordance with our travel regulations.

I cannot foresee any difficulties that would be encountered if you wish to request leave of absence without pay from time to time, or if you retain your academic status at the Institute for Advanced Study. I understand that you had some questions on these two points.

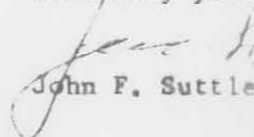
As a permanent member of the Laboratory's staff, you will become a member of the State Employees' Retirement System. I am enclosing a pamphlet explaining the system. If you have any questions about SERS, or any other matters regarding your appointment, please let me know.

Sally Barieau will be happy to assist you with your housing requirements.

We would appreciate your sending us a formal acceptance of this offer and advising us when you plan to join our staff. The usual administrative procedures - payroll papers, medical examination - can be completed on the day your appointment becomes effective.

We are all very pleased to learn that you may soon be permanently associated with the Laboratory.

Sincerely yours,

  
John F. Suttle

Enclosures: Travel Rules,  
Part D and E  
SERS Pamphlet

cc: Dr. McMillan  
Dr. Judd  
Mrs. Barieau

THE INSTITUTE FOR ADVANCED STUDY

Princeton, New Jersey

Office of the Director

7 March 1961

Memorandum to the Members  
of the Board of Trustees:

At our last meeting, I told you of the many instances in which members of the Institute Faculty play an active part at other institutions of learning. Here is the latest and newest example. It seemed to me that the arrangements were sufficiently startling so that you should have as complete an account of them as I have.

RO

Robert Oppenheimer

attachments

C O P Y

C O P Y

UNIVERSITY OF CALIFORNIA

Lawrence Radiation Laboratory  
Berkeley 4, California

January 25, 1961

Professor Abraham Pais  
The Institute for Advanced Study  
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John F. Suttle

C O P Y

C O P Y

C O P Y

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THE INSTITUTE FOR ADVANCED STUDY

Princeton, New Jersey

February 27, 1961

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University of California  
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With best personal regards,

Sincerely yours,

Abraham Pais

C O P Y

C O P Y

C O P Y

C O P Y

THE INSTITUTE FOR ADVANCED STUDY

Princeton, New Jersey

Office of the Director

3 March 1961

Dear Bram:

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Robert Oppenheimer

Professor A. Pais  
The Institute for Advanced Study

C O P Y

C O P Y

C O P Y

C O P Y

THE INSTITUTE FOR ADVANCED STUDY

Princeton, New Jersey

School of Mathematics

March 6, 1961

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Yours,

/s/ Bram

C O P Y

C O P Y



Theoretical Physics Seminar

INSTITUTE FOR ADVANCED STUDY  
Seminar Room, Building E, 4:15 p.m.

Tuesday, February 7, 1961

- Dr. Abraham Pais, I. A. S.

will speak on

"The Sigma-Puzzle"

Tuesday, February 14, 1961

Dr. Richard E. Prange, I. A. S.

will speak on

"Microscopic Theory of Superfluidity"

Please notice change of schedule!

Theoretical Physics Seminar

INSTITUTE FOR ADVANCED STUDY  
Seminar Room, Building E, 4:15 p.m.

Tuesday, January 17, 1961

Dr̄s. Jean Lascoux and Michael Nauenberg, I. A. S.

will speak on

"Chew's program; peripheral collisions"

Tuesday, January 24, 1961

Dr. Abraham Pais, I. A. S.

will speak on

" $Y^*$ ,  $K^*$ ,  $w^0$  and all that"

Tuesday, January 31, 1961 - NO SEMINAR

Dr. Prange's talk on "Microscopic Theory of Superfluidity"

has been postponed till early February.

COPY

THE INSTITUTE FOR ADVANCED STUDY  
Princeton, New Jersey

School of Mathematics

October 14, 1959

Dear Professor Woodward:

In connection with the draft minutes of the Faculty meeting of March 25, 1959, and comments on these draft minutes, I would like to make the following remark.

It is correct (as stated by Professor Weil) that the physicists are of the unanimous opinion that their collection should in no case be separated from the mathematics collection. It is a corollary to this statement that "if this proposal [to house the mathematical collection in Fuld Hall] were accepted, it would also be necessary to house the physics collections in Fuld Hall." Thus page 2, last line and page 3, line 1 are correct as is. They should not be changed.

I would propose, with the consent of the Director, that to point (iv) of his summing up be added the sentence: The physics collection should in no case be separated from the mathematics collection.

This request is proper, I believe. First, I have myself spoken at the meeting in question in favor of this inseparability, and am therefore entitled to make a proposal for change, in terms of the motion passed at our last Faculty meeting. Secondly, the Director, as Professor of Physics, shares this view of inseparability. While I do not wish to put words in his mouth, I am convinced that at least none of the physicists would object to the spirit of the proposed amendment.

I wish to add that I make this suggestion only in order to help cut short as much as possible the further discussion of these minutes. I do, of course, believe in the right of Faculty Members to challenge the correctness of minutes. At the same time I find the actual way in which this was done by some members plain silly.

Finally I wish to suggest as text for our next Faculty meeting Proverbs 9.1 (first part) and Proverbs 9.6.

Cordially yours,  
/s/ A. Pais  
Abraham Pais

AP: jlk

cc Professor J. R. Oppenheimer  
Professor A. Weil

cc Mr. Morgan

20 April 1959

Dear Professor Pais:

The Trustees of the Institute, meeting on April 18th, have fixed your salary, and that of your colleagues, at \$22,500 a year, starting July 1, 1959.

I am glad to tell you the good news.

Very sincerely,

Robert Oppenheimer

Professor A. Pais  
The Institute for Advanced Study

Dr. Abraham Pais

Dr. Pais was born in Amsterdam on May 19, 1918. He obtained his Doctor's Degree at the University of Utrecht in 1941. During the years of the occupation, he continued to work under conditions of great difficulty, and the year after the war he was an assistant at the Institute of Theoretical Physics in Copenhagen. In the fall of 1946, Dr. Pais came to the Institute for Advanced Study.

The record of Dr. Pais' work in the last decade is almost a history of the efforts to clarify our understanding of basic atomic theory and of the nature of elementary particles. Pais first proposed the compensation theories of elementary particles, and much of his work has been devoted to exploring the success and limitations of these theories, and indicating the radical character of the revisions which will be needed before they can successfully describe the sub-atomic world. Pais has made important contributions to nuclear theory and to electrodynamics. He is one of the few young theoretical physicists who within the last decade have enriched our understanding of physics.

Statement prepared by J. R. Oppenheimer  
Enclosure: Bibliography of papers by Dr. Pais

PUBLICATIONS OF ABRAHAM PAIS

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(With L. Hulthen) *Scat. of high-energy neutrons by protons*  
*Report 1947 p 177-80.*  
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On the possible existence of mass spectra of elementary particles, *Proc. Phys. Soc. London.*

Developments in the theory of the electron (1948) 45 pp., pub. of IAS and P. Univ., Princeton Univ. Press (Out of print).

(By AP and S.T. Epstein) Note on relativistic properties of self-energies, *Revs. Mod. Phys.* 21 (1949), 445-446.

*Het IAS, by "Questione Academiche Moderne" Groningen 1949*  
(By AP and K.M. Case) On spin-orbit interactions and nucleon-nucleon scattering, *Phys. Rev.* 80 (1950), p. 203-211.

(By AP and G.E. Uhlenbeck) On Field Theories with Non-Localized Action, *Physical Review*, Vol. 79, No. 1, 145-165, July 1, 1950.

(By AP and K.M. Case) On High Energy Nucleon-Nucleon Scattering, *Physical Review*, Vol. 79, No. 1, 185, July 1, 1950.

\* a. c. e. y. v. h. r. f. 1/2  
b. c. d. v. s. a. e.  
c. d. e. y. v. h. r. f. 1/2  
d. v. h. r. f. 1/2

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v.H.

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Publications of Abraham Pais (continued)

*insert A*

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On Spin-Orbit Interaction and Nucleon-Nucleon Scattering (with K. M. Case). Phys. Rev. (2), 80: 203-211 (1951)

On the Scattering of a Particle by a Static Potential (with R. W. Jost). Phys. Rev. (2), 82: 840-851 (1951)

Charge Independence and Multiple Pion Production (with L. Van Hove and R. Marshak). Phys. Rev. (2), 88: 1211-1212 (1952)

*2 vH*  
*2 vif* Cross Section of  $\pi$ -Meson Scattering. Report of the International Physics Conference, Copenhagen, 1952: 45-47 (1952)

Heavy Unstable Particles. Report of the International Physics Conference, Copenhagen, 1952: 33-34 (1952)

Selection Rules Imposed by Charge Conjugation and Charge Symmetry (with R. W. Jost). Phys. Rev. (2), 87: 871-875 (1952)

Some Remarks on the  $V$ -Particles. Phys. Rev. (2), 86: 663-672 (1952)

Isotopic Spin and Mass Quantization. Physica, 19: 869-887 (1953)

On the Baryon-Meson-Photon System. Progress Theor. Phys., 10: 457-469 (1953)

On the Program of a Systemization of Particles and Interactions. Proc. Nat. Acad. Sci. USA, 40: 484-492 (1954)

Spherical Spinors in a Euclidean 4-Space. Proc. Nat. Acad. Sci. USA, 40: 835-841 (1954)

*Particles*  
The Behavior of Neutral Fields under Charge Conjugation (with M. Gell-Mann). Phys. Rev. 97: 1387 (1955)

*2. vH.*  
On the New Particles. Proceedings of the International Conference on Theoretical Physics, Kyoto, 1953.

$\omega$ -Space Theory. " " " " Theoretical Views on the New Particles (with M. Gell-Mann). Proceedings of the International Physics Conference, Glasgow, 1954. (same listing *Rock. 55*)

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Possibility of Hyperfragment Formation in  $K^-$ -d Reactions (with S. B. Treiman). Phys. Rev. 107: 1396-1400 (1957)

Strong Coupling (with R. Serber) Phys. Rev. 105: 1636-1652 (1957)

Polarization Effects in  $\Sigma^-$ -Capture (with S. B. Treiman). Phys. Rev. (2), 109: 1759-1762 (1958)

Symmetries of the Strong Interactions. Phys. Rev. (2), 110: 574-578 (1958)

Note on Relations between Baryon-Meson Coupling Constants. Phys. Rev. (2), 110: 1480 (1958)

Source of Stability of the New Particles. Proc. Rochester Conf. 1955. Interscience, N.Y.

Parity and Strangeness. Proc. Rochester Conf. 1957. Interscience, N.Y.

De Huidige stand van het pariteitsprobleem en van het tydsonekeer probleem. Versl. Roy. Acad. Sci. Netherlands 66: 79-81 (1957)

The Scientific Work of T. D. Lee and C. N. Yang. Nuclear Phys. 5: 297-300 (1958)

Relative Parity of Charged and Neutral K-Particles. Phys. Rev. (2), 112: 624-641 (1958)

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General Transformation of the Symmetrical Pseudoscalar Theory (with R. Serber). Phys. Rev. (2), 113: 955-958 (1959)

Notes on Antibaryon Interactions. Phys. Rev. Letters 3: 242-244 (1959)

On the Quantum Theory of the Third Virial Coefficient (with G. E. Uhlenbeck). Phys. Rev. 116: 250-269 (1959)

The Many  $\pi$ -Meson Problem. An. Phys. 9: 548-602 (1960).

Theoretical Aspects of Nonleptonic Hyperon Decays. Phys. Rev. 122: 317-330 (1961)

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On Symmetries Shared by weak and strong interactions. Rev.Mod.Phys. 33: 493-497 (1961)

Correlations between cusps in differential cross-sections and in polarizations (with M. Nauenberg). Phys. Rev. 123: 1058-1065 (1961)

Incomplete  
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Page 2.

- (with R. W. Jost) On the Scattering of a Particle by a Static Potential. Phys. Rev. 82: 840-851 (1951)
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- Heavy Unstable Particles. Report of the International Physics Conf., Copenhagen, 1952. pp. 33-34
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- On the Program of a Systemization of Particles and Interactions. Proc. Nat. Acad. Sci. USA, 40: 484-492 (1954)
- Spherical Spinors in a Euclidean 4-Space. Proc. Nat. Acad. Sci. USA, 40: 835-841 (1954)
- (with M. Gell-Mann) The Behavior of Neutral Particles under Charge Conjugation. Phys. Rev. 97: 1387 (1955)
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- (with S. B. Treiman) Angular Correlation in  $K^0$ -Decay Processes. Phys. Rev. 105: 1616-1619 (1957)
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- De Huidige stand van het pariteitsprobleem en van het tydsonekeer probleem. Versl. Roy. Acad. Sci. Netherlands 66: 79-81 (1957)
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- Note on Relations between Baryon-Meson Coupling Constants. Phys. Rev. 110: 1480 (1958)
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- Parity and Other Symmetries in Strong Interactions. Phys. Rev. Letters 1: 418 (1958)
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- (with R. Serber) A General Transformation of the Symmetrical Pseudoscalar Theory. Phys. Rev. 113: 955-958 (1959)
- Notes on Anti-Baryon Interactions. Phys. Rev. Letters 3: 242-244 (1959)
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- (with G. Uhlenbeck) On the Theory of the Third Virial Coefficient. Phys. Rev. 116: 250-269 (1959)
- The Many  $\pi$ -Meson Problem. An. Phys. 9: 548-602 (1960)
- (with G. Goldhaber, S. Goldhaber and W. Lee) Influence of Bose-Einstein Statistics on the Antiproton-proton Annihilation Process, UCRL 9169
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- (with L. T. Kerth) On the Gentle Art of Hunting Bumps in the Pion-Hyperon System. UCRL 9706, May 19, 1961
- On Symmetries Shared by Strong and Weak Interactions. Revs. Mod. Phys. 33: 493-497 (1961)
- (with M. Nauenberg) Correlations Between Cusps in Differential Cross Sections and in Polarizations. Phys. Rev. 123: 1058-1065 (1961)

THE INSTITUTE FOR ADVANCED STUDY

THEORETICAL PHYSICS SEMINAR

Wednesday, October 15th, Seminar Room, E Building, 4:15 p.m.

The second seminar on

SYMMETRIES IN STRONG INTERACTIONS

Drs. F. Gürsey, A. Pais, and J.J. Sakurai

*fac Pais*

THE INSTITUTE FOR ADVANCED STUDY

THEORETICAL PHYSICS SEMINAR

Tuesday, October 22, 1957, at 4:15, Seminar Room, E Building

Professor A. Pais

SCHWINGER'S CONJECTURES ON THE FUNDAMENTAL INTERACTIONS

Pais  
We 2:45

Dear Robert

I have thought over your suggestion and I think I should rather not. What has been done is simple; also I believe it is interesting. The question which is naturally raised: is there a systematic way in which a symmetry in the  $\pi$  (or  $K$ ) couplings could be broken by the  $K$  (or  $\pi$ ) couplings, a way which can be confronted of course with experiment - to this question I have no answer. I know that it is hard and delicate. I believe this is a major problem. It just cannot be that there are 8 unrelated strong interactions. Der liebe Herr Gott ist nicht boshaft, aber ich bin nicht raffiniert genug. Well, I have company -

I have just these last two weeks, thought much and tried much but have no suggestions. So naturally I do not feel too optimistic at this very moment to talk about it.

I have only one other suggestion, it is not the freest of ideas but it could do: to ask Leona to talk and to ask Bengt to take the chair in case you would be unable to make it.

Hope your flu will leave very soon -

Bram

*Pais*

THE INSTITUTE FOR ADVANCED STUDY  
PRINCETON, NEW JERSEY

OFFICE OF THE DIRECTOR

3 June 1957

Dear Professor Pais:

As you know, the Trustees of the Institute for Advanced Study have been considering the adequacy of retirement and pension arrangements, both for the Faculty and for others who are in the employ of the Institute. Their deliberations have led to some changes in policy, all of which should be favorable for the employee, and some of which affect you.

1. The mandatory age for retirement for members of the Faculty has been advanced to the June 30th following their 70th birthday.

2. For those who have come to the Institute before the age of 55, the T.I.A.A. contracts will provide a minimum annual pension after retirement at 70 which, when supplemented by Social Security benefits, will come to \$10,000.

3. The Institute will ask that members of the Faculty contribute five per cent of their salary to T.I.A.A. In your case we will start withholding this sum July 1st, 1957. The Institute will make a like contribution, plus such additional annual payments that may be required under the T.I.A.A. contract. In your case the supplementary payments will be small.

4. In estimating your pension at \$10,000, Social Security benefits of about \$1,300 per year have been included. If, after retirement, you should in any calendar year earn more than \$1,200, you would waive part of Social Security payments. This does not apply to supplementary unearned income. These provisions are in accord with present Federal legislation and administrative rulings, which may, of course, be changed.

5. The Institute will allocate the maximum that it may, which is fifty per cent of the total annual contribution that you and the Institute make toward your retirement, to College Retirement Equities Fund. This fund has been established in order that beneficiaries may be provided with a hedge against inflation, through investment in equities whose value and whose income have increased with the years in the past, and are expected to increase in the future. The Trustees are aware of the fact that benefits from C.R.E.F. vary as provided in C.R.E.F. contracts, and are not guaranteed as those accruing under T.I.A.A.; but they believe that, under the C.R.E.F.-T.I.A.A. arrangement, your total retirement benefits are more likely to exceed \$10,000 than to fall below this sum.

Within the next months you will receive a new contract from T.I.A.A. describing the provisions under which your retirement benefits will be paid. Should you have any questions about that contract or this letter, or the matters touched upon in it, please do not hesitate to let me know.

Very sincerely,

Robert Oppenheimer

Professor A. Pais  
Institute for Advanced Study

COPY



Copy to Mr. Morgan

28 October 1955

Dear Professor Pais:

The Board of Trustees of the Institute, meeting on October 27, 1955, have authorized me to establish a single uniform salary for all professors at the Institute. At the present time this salary is \$18,000 a year. I therefore have the pleasure of writing to you that at the beginning of the next academic and fiscal year, on July 1, 1956, your salary will be increased to this figure. The provisions of your and our contributions to T.I.A.A. will be correspondingly increased.

Faithfully,

Robert Oppenheimer

Professor A. Pais  
Apartment 5C  
47 Perry Street  
New York, New York

Copy to Miss Trinterud

April 6, 1953

Dear Professor Pais:

At a regular meeting of the Board of Trustees of the Institute for Advanced Study on April 3, 1953, it was voted:

(1) To increase your annual salary to \$14,000 a year, effective July 1, 1953, and to retain the usual provisions for contributions to TIAA; } X

(2) To make available to you, as to all members of the Faculty, \$1,000 a year as a fund for your professional travel. This fund, if not required by you in any one year, may accumulate, but will not at any time exceed \$3,000. It is to be available to you only for these purposes, and only as long as you are a member of the Faculty of the Institute;

(3) To alter the provisions for your retirement--as for all members of the Faculty--in that retirement, which has until now been mandatory as of the June 30th following your 65th Birthday, will now become optional with you from your 65th Birthday on, and will be mandatory only as of the June 30th following your 68th Birthday.

Yours sincerely,

Robert Oppenheimer

Professor Abraham Pais  
Institute for Advanced Study  
Princeton, N. J.

Pais



**Columbia University**  
**in the City of New York**  
[NEW YORK 27, N. Y.]  
DEPARTMENT OF PHYSICS

October 17, 1955

Professor J. R. Oppenheimer  
Institute for Advanced Study  
Princeton, New Jersey

Dear Robert:

The tragic news of George's death is not an item for discussion in a letter. It has no doubt strongly affected many people in and around the Institute. Apart from our personal sense of loss there is the loss to the Institute's physics group. It is almost superfluous to spell this out. But practical questions are going to arise now as to the future plans for physics. I shall not be there this fall to take part in the deliberations which the new situation will bring about. It does not seem out of place though to state here some views of my own on this subject.

Even if one would have asked me two weeks ago what would be the best line to follow in looking around for possible new appointments in physics I would have urged not to take as the next man one who is a field and particle theorist. (The one and only exception I would make is for Schwinger. I would take him anytime). Now I can only feel more strongly on this score.

To be concrete I think it would be right for the Institute to try and get Onsager. He is 52, and no doubt this means statistically that he has had his best creative years. But first of all he may well have a lot to contribute still. Secondly, and this to my mind perhaps is even more important, he may bring to the Institute a sound and mature tradition in statistical mechanics and physical chemistry. The promises which both Frank and Freeman have shown in no uncertain way in this direction may come to fulfillment even more with Onsager around.

A second choice with similar comments would be Kirkwood.

A third possibility would be to consider an attempt to recall van Hove. (Of course as a professor; let there be no more hierarchical appointments). I think this

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Professor J.R. Oppenheimer

Page 2

would be quite proper, Leon would do quite well. I do not believe that it would be indelicate from the Institute's side to approach him even though he has just started in quite new surroundings. In these instances the thought of finding a man who at least partly represents some of George's interests is not decisive, although it is of course not far around the corner.

A further item on an agenda dealing with new appointments should no doubt be the question whether we would like to make an offer to Jost. It seems altogether right to me to consider this. We have never given him his due. Here one might think also of possibility of tying in Jost's great talents in "applied" mathematics with a degree of responsibility in the future of the computer.

I could give various reasons why either van Hove or Jost might be disinclined to accept a hypothetical offer. None of these reasons by themselves would seem a deterrent to me from actually making a proposal.

I would certainly be glad to go along with positive action on any of the persons mentioned. Finally, I need not say that while I think that these ideas are good, there may be better ones.

Yours,

*Bram.*

A. Pais

AP:mmd

Fae Pais

17 October 1955

Dear Bram:

Thank you for your good letter. We all thought we should go ahead with the de Boer proposal, and we are doing so.

We talked a little of your suggestion about Russian physicists. From what I hear, Markof would probably be an interesting possibility; but Frank and Freeman and I thought that we should see what progress is made in connection with the Rochester and Seattle conferences, and whether and what policy is adopted in this country, before getting into it ourselves. Perhaps you know of reasons why we would not need to do this. We can talk of that when we see each other.

I talked to Els yesterday. She will be back in this country in about a fortnight.

Faithfully,

Robert Oppenheimer

Dr. A. Pais  
47 Perry Street, Apt. 5C  
New York, New York

C O P Y

C O P Y

COLUMBIA UNIVERSITY  
IN THE CITY OF NEW YORK

Department of Physics

October 17, 1955

Professor J. R. Oppenheimer  
Institute for Advanced Study  
Princeton, New Jersey

Dear Robert:

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A second choice with similar comments would be Kirkwood.

A third possibility would be to consider an attempt to recall van Hove. (Of course as a professor; let there be no more hierarchical appointments). I think this would be quite proper, Leon would do quite well. I do not believe that it would be indelicate from the Institute's side to approach him even though he has just started in quite new surroundings. In these instances the thought of finding a man who at least partly represents some of George's interests is not decisive, although it is of course not far around the corner.

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C O P Y

- 2 -

C O P Y

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I would certainly be glad to go along with positive action on any of the persons mentioned. Finally, I need not say that while I think that these ideas are good, there may be better ones.

Yours,

/s/ Bram

A. Pais

AP:mmd

Pais

THE INSTITUTE FOR ADVANCED STUDY  
PRINCETON, NEW JERSEY

SCHOOL OF MATHEMATICS

December 6

Dear Robert

As I shall be unable to attend the Faculty meeting of Dec. 14, I would like to record in writing my vote in favor of the appointment of Willard Reiss to Professor in the School of Historical Studies.

The reading of his vita and of the accompanying letters make me look forward to meet the man and read his works.

Yours

Brauer





THIS SIDE OF CARD IS FOR ADDRESS



Dr. Hans Wallach  
Inst. for Adv. Study  
Princeton, N.J.

**REMINDER: Tuesday, May 17, 1955 at 8:30 P.M.**

**WORLD REPORT**

**"Report from the Atomic Age Laboratories"**

**Panel:**

**SAMUEL A. GOUDSMIT, Physicist, Brookhaven National Laboratories**

**HARTLEY HOWE, Formerly editor, Popular Science Magazine**

**WALDEMAR KAEMPFERT, Science editor, The New York Times**

**ABRAHAM PAIS, Professor of Physics, Institute for Advanced Study,  
Princeton, New Jersey**

**HANS SIMONS, President, The New School; Chairman**

**R.S.V.P., Secretary, New School, 66 W. 12th St., New York 11**

**Admission, \$1.00**

**NEW SCHOOL FOR SOCIAL RESEARCH**

Pais

DR. A. PAIS  
47 PERRY ST., APT. 5 C  
NEW YORK 14, NEW YORK

Nov. 30.

Dear Kitty and Robert,

Here are the details concerning Dec. 15:  
The wedding will be at 4, at the house of  
Joel Katz, 49 E 91 St. We ask our friends  
to be there not later than 3:30.

As ever

Bram

INSTITUTE FOR ADVANCED STUDY

Theoretical Physics Seminar

Seminar Room - Building E (2nd floor)

Dr. A. Pais

"Remarks on the Strong Coupling Theory"

Tuesday, October 16, 1956 -- 4:15 P.M.

Pais

"Oh happy groom, thou hast the wedding as thou prayest,  
And hast the maiden as thou prayest, too...

Above all men has Aphrodite honoured thee."

*These words of Sappho*

*are  
called  
to mind*

This Sapphic line, with wishes to groom and bride,  
~~is brought to memory~~ by the Faculty of the Institute  
through its secretary who, in his other capacity ~~of~~  
~~as~~ being the Last Bachelor on the Faculty, adds ~~yet still~~  
another line:

~~"If you have taers, ~~to~~ prepare to shed them now."~~

*"A long farewell to thee, most  
honored groom."*

*Pais*

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NIGHT LETTER	E

# WESTERN UNION

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W. P. MARSHALL, PRESIDENT

NO. WDS.-CL. OF SVC.	PD. OR COLL.	CASH NO.	CHARGE TO THE ACCOUNT OF	TIME FILED

Send the following message, subject to the terms on back hereof, which are hereby agreed to

To Dr. A. Pais  
47 Perry Street  
New York, New York

*sent night letter 12/14/56*

" Oh happy groom, thou hast the wedding as thou prayest,  
And hast the maiden as thou prayest, too...  
Above all men has Aphrodite honoured thee."

These words of Sappho, with wishes to groom and bride, are called to mind by the Faculty of the Institute through its secretary who, in his other capacity as the Last Bachelor on the Faculty, adds still another line:

"A long farewell to thee, most honoured groom."

Pais

Columbia University  
in the City of New York  
[NEW YORK 27, N. Y.]  
DEPARTMENT OF PHYSICS

April 11

Dear Robert

Next week I have to be  
in Washington on Wednesday;  
Monday is somewhat difficult.  
Might I ask for the meeting to be  
on Tuesday (very preferred) or else  
on Thursday?

I also would like now  
finally to unbuckle myself  
on the topic which shall go by  
the code name "Saturday morning".  
It is an interesting story. As ever yours  
Bran.

UNIVERSITY OF MARYLAND  
Department of Physics  
College Park, Maryland

CENTENNIAL AND SESQUICENTENNIAL CELEBRATIONS  
College of Agriculture 1856-1956      School of Medicine 1807-1957

CENTENNIAL LECTURES IN PHYSICS

The next three lectures in this series are listed below.

3 P. M. Friday, April 13,  
Room 115.

Dr. H. A. Tolhoek, University of Leiden,  
Netherlands: "Formulation of Collective  
Flow in Nuclei".

1:30 P. M. Tuesday, April 17,  
Room 115.

Professor Abraham Pais, Institute for  
Advanced Study, Princeton, New Jersey:  
"Theoretical Aspects of New Particles".

8 P. M. Thursday, April 19,  
Room 115.

Sir George Thomson, F. R. S., Corpus  
Christi College, University of Cambridge,  
England: "The Impact of Science on Modern  
Life: The New Industrial Revolution".

Visitors may park on the road on the west side of the Physics  
Building or in parking lot D. Additional lectures in this series will  
be announced later.



Pais

C O P Y

C O P Y

DR. A. PAIS  
47 Perry St., Apt. 5C  
New York 14, New York

Dec. 22

Dear Robert:

With 1 ft on the plane to the sun I get the draft minutes of the Nov 8 minutes. I strongly object to the sentence: "Prof. Pais declared.....outrageous." First I did elaborate, viz. saying that I thought it funny that they wrote this letter a few days before our meeting, and that I didn't know whom they wished to convince (i.e. themselves or the others). Second I never used the word "outrageous". I do wish this sentence to be changed as follows:

"Prof. Pais declared that he thought it peculiar for B. G. and S to have written a letter a few days prior to the meeting, in which they register their vote, rather than to wait for the present meeting to do so."

Please shorten if you can but don't leave out peculiar.

Sorry this is in a hurry. See you in January.

yours

/s/ Bram

Pais  
NY. March 27.

Dear Robert.

Thanks very much for  
your note.

Tot ziens

Bram

THE INSTITUTE FOR ADVANCED STUDY  
PRINCETON, NEW JERSEY

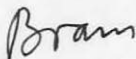
SCHOOL OF MATHEMATICS

December 23, 1954

Dear Robert:

As I shall be on leave next term, it seems proper to inform you formally that I wish to vote affirmatively in regard to the professorial appointments of Drs. Alföldy, Placzek, and Yang.

As ever,



A. Pais

AP:ch

Pais

DOMESTIC SERVICE	
Check the class of service desired; otherwise this message will be sent as a full rate telegram	
FULL RATE TELEGRAM	SERIAL
DAY LETTER	NIGHT LETTER

# WESTERN UNION

1206

INTERNATIONAL SERVICE	
Check the class of service desired; otherwise this message will be sent at the full rate	
FULL RATE	LETTER TELEGRAM
VICTORY LETTER	SHIP RADIOGRAM

W. P. MARSHALL, PRESIDENT

NO. WDS.-CL. OF SVC.	PD. OR COLL.	CASH NO.	CHARGE TO THE ACCOUNT OF	TIME FILED

Send the following message, subject to the terms on back hereof, which are hereby agreed to

Jan 24th

A. Pais  
47 Perry Street  
New York City

Freeman will be in New York, and hopes to drive down with you Saturday am

Robert

THIS SIDE OF CARD IS FOR ADDRESS



Pais'

PRINCETON UNIVERSITY  
Princeton, New Jersey

THEORETICAL PHYSICS SEMINAR

Friday, October 8th, 4:30 P. M.

Room 307, Palmer Physical Laboratory

Speaker: Professor A. Pais, Institute for Advanced  
Study. Topic: "Remarks on the New Particles".

Pais

20 January 1955

Memorandum to Mr. Morgan:

As requested by Professor Pais, and authorized by the Board of Trustees in their meeting of October 1, 1954, Professor Pais has been given leave of absence without salary for six months, from January 1, 1955 through June 30, 1955.

Robert Oppenheimer

Pais

23 March 1955

Dear Bram:

Thank you for your letters of March 19th. As Mrs. Hobson has written you, Wednesday the 30th is not good. Frank Yang is committed to going to Brookhaven that day, and would be troubled to change it. It occurs to me that since you look on coming to Princeton with very little enthusiasm, and do not plan in any case to be here next semester, perhaps Freeman and Frank and I can settle the outstanding problems. The only hard ones have to do with young people who have been here for a year, who have not received fellowships, and for not all of whom it would be appropriate that they stay.

Robert Oppenheimer

Dr. A. Pais  
47 Perry Street  
Apartment 5C  
New York, New York



Dear Robert

About this physics meeting. Thinking about it, it is clear that very little remains to be done. Now I would be very much obliged to you if then we could meet on Wednesday morning the 30<sup>th</sup>. (Then I can do physics the whole Tuesday as I usually do). If yes, I shall be available from 9 am - 1 pm which should be ample. I'll stay with Cherniss and come to Princeton late Tuesday night. I enclose a postcard addressed to me. If I'll get it back, I'll see you on We, if not I'll come on Tuesday.

About your question in the gentled of voices whether I had received my mail. I would not have come even if I could have. As must be clear to you, I do not wish to come to Princeton these months. I have a need to think on what the Institute is about, what I am about doing there and, believe me, it is better that I keep this distance for a while; it is also in the spirit of the agreement.

There are a good many things that seem fake about the place as seen from afar. They are not tangibles. It is an impression that we expand but do not grow, that we hold the fort rather than build. I have been shocked into the full awareness of this in the days of crisis of last spring; but it was not new to me even then. There is a real lack of touch with reality about the place. The things that

went on around the Placeck nomination are just one manifestation of this.

Both my teaching and my visits once in a while to Brookhaven (where I have a consultant appointment now) do me very very much good. And I do have time left to think.

I want to request that my leave be extended till the end of this calendar year. I feel this request to be fair and proper after  $8\frac{1}{2}$  years at Princeton. It means a great deal to me in my all round growth. I want to put this to you now, so that we can discuss it when I come over.

Yours  
Brauer.

*Pais*

22 March 1955

Dear Professor Pais:

We have checked with Professor Dyson and Dr. Yang, and unfortunately Dr. Yang is not able to change a previous appointment for Wednesday the 30th. We are therefore planning to hold it on the 29th, as originally planned.

Sincerely,

(Mrs. Wilder Hobson)  
Secretary to the Director

Professor A. Pais  
47 Perry Street  
Apartment 5C  
New York, New York

Pais

THE INSTITUTE FOR ADVANCED STUDY  
PRINCETON, NEW JERSEY

OFFICE OF THE DIRECTOR

28 July 1954

Dear Professor Pais:

Merrie Mitchell has told us of your query about the status of Dr. Verde's visa application, and we have checked our correspondence with him. Mrs. Barnett heard as lately as June 30th from him that he had been informed he would receive his visa, and we have heard nothing further. I do not believe we could suitably instigate an enquiry from here unless we heard from Dr. Verde, or unless we had specific details of any trouble he may be having. If you have any more information, could you let us know?

Dr. Oppenheimer has taken his family for a few weeks in the Virgin Islands, and things are very quiet here. I hope you are having a good trip.

Sincerely yours,

(Mrs. Wilder Hobson)  
Secretary to the Director

Professor A. Pais  
c/o American Express  
Haymarket Street  
London, England

Copy to Professor Pais  
Institute

THE INSTITUTE FOR ADVANCED STUDY  
PRINCETON, NEW JERSEY

SCHOOL OF MATHEMATICS

Best title of a physics paper  
of the year:

4  $\pi$ -mesons on Kilimanjaro

[Z. Naturf. 9a, 354, 1954]

B.

THE INSTITUTE FOR ADVANCED STUDY  
PRINCETON, NEW JERSEY

SCHOOL OF MATHEMATICS

April 19.

Dear Robert

These days my thoughts are constantly with you.  
I send you and Kitty my respects and all my friendship.

Enclosed you will find my MS. All technical points raised at that memorable seminar are in good order - and it was easy to convince Baymann that one uses all of the group. It is too bad that there was no opportunity to finish that talk in a proper way. The next day Pauli and I had various walks and he explained to me that what really made him mad was that I hadn't talked about his rotating spheres.

We have drawn up a covering letter here to facilitate matters in case you will want to present this to the Academy.

Spalons alchem - peace be with you.

Yours ever

Bram.

*UNIVERSITY of PENNSYLVANIA*

PHILADELPHIA 4

*The College*

RANDAL MORGAN LABORATORY OF PHYSICS

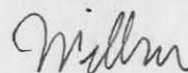
Dr. Robert Oppenheimer  
Institute for Advanced Study  
Princeton, New Jersey

March 9, 1954

Dear Oppie:

We thought it may be cricket to let you know that we are trying to entice Pais to join us here in Philadelphia. We stopped to tell you when we were in Princeton and were sorry we didn't see you.

Sincerely yours,



C. W. Ufford

CWU:rk

COLUMBIA UNIVERSITY  
BROADWAY AND 120TH STREET, NEW YORK 27, NEW YORK

PHYSICS COLLOQUIUM  
5:00 P.M. ROOM 301 PUPIN PHYSICS LABORATORIES

Friday, October 9, 1953

Speaker: G. Harris  
Columbia University

Subject: Production of Pairs of Mesons from High  
Energy Nuclear Explosions

Friday, October 16, 1953

Speaker: P.J. Price  
Watson Laboratories

Subject: Phonons in Liquid Helium

Friday, October 23, 1953

Speaker: A. Pais  
Institute for Advanced Studies

Subject: Remarks on the New Particles



THE INSTITUTE FOR ADVANCED STUDY  
PRINCETON, NEW JERSEY

SCHOOL OF MATHEMATICS

For  
Pais

Dear Kay

Enclosed is a copy of a letter  
from Titus Rotors concerning  
my car. As I think your office  
might need this for filing I had  
an extra copy made; you can therefore  
keep this if necessary.

The car was sold yesterday for \$725.-

Braun



## TITUS MOTORS

19 Witherspoon Street      Princeton 3464-3465  
PRINCETON, NEW JERSEY

March 10, 1953

Dr. A. Pais  
Institute of Advanced Study  
Princeton, N.J.

Dear Sir:

This is to verify our oral conversation concerning your 1950 Pontiac. The car, in its present condition is worth seven hundred and twenty-five dollars (\$725.00) to us as a trade-in on a new car.

However, if the automobile had not been damaged during the last few days, we would have allowed you fifteen hundred dollars (\$1500.00) for same.

Yours truly,  
TITUS MOTORS

Walter A. Titus  
Partner

WAT

INSTITUTE FOR ADVANCED STUDY  
PRINCETON, NEW JERSEY

*M. F. Pais*

REQUISITION FOR PAYMENT

Date November 11, 1952

Pay to Dr. A. Pais

Address c/o Institute

Approved by (Signature) ..... Amount \$ 7.50

To be charged to Travel (general fund)

In payment of (Itemize)

travel expenses as IAS representative to Brookhaven Conferences

Room: \$3.00  
Gas 3.00  
Tolls 1.50

Check No. ....

Batch No. ....

Extensions Chkd .....

Entered By .....

7  
Pais

June 28, 1952

Dear Professor Fokker:

It is indeed a long time since we have talked with one another, and almost a lifetime since the happy weekend that we spent with you in the East. To the whole world of physics, and to many more besides, Kramers' death has been a source of mourning.

Now as to Pais. I am not in an uninterested position with regard to him. Since he is a member here at the Institute, my own wishes and desires are that he stay here. I believe it in the interests of physics, and in his own interests, that he do so. But it is clearly not for me to make this decision. He has primarily been interested in abstract questions, though as you may see from his recent paper on  $\beta$ -particles, he is not without interest in some of the striking new experiments. He has never lived close to a laboratory, and does not have the feel of it; but I know from my own experience that this is something that can be achieved, given the opportunity.

We have here at the Institute a great insistence on not organizing our work; and therefore Pais has not been called upon to arrange or direct the studies of others. But like all true scientists, he does affect and illuminate them. There is enough in him of the Ehrenfest-Kramers-Uhlenbeck tradition to make it likely that he would take an interest in students. He is an excellent lecturer, but has not, as far as I know, ever had the task of formal teaching in a university. I do not know whether at this time he would welcome that or shrink from it. His whole life here has been one free of responsibility, and it would be a great change for him to sit in the chair that Kramers' death left vacant.

- 2 -

You have not asked me to compare Pais with other candidates, either of Dutch origin or foreigners; and I am glad not to have to make that comparison. Pais is a very distinguished physicist. If I believe that his qualities and his experience fit him particularly for the situation here at the Institute, which gives him so much freedom to travel and to direct his attention to matters which interest him personally at the moment, it is only the opinion of an associate of his who is proud to have him as an associate.

With every warm good wish,

Robert Oppenheimer

Professor A. D. Fokker  
Natuurkundig Laboratorium  
Teylers Stichting  
Haarlem, Holland

June 18, 1952

Dear Dr. Fokker:

In Dr. Oppenheimer's absence from Princeton, I should like to acknowledge and thank you for your letter of June 12th. Dr. Oppenheimer will be away until the end of June; but you may be sure that your letter will be held for his attention on his return to the Institute.

Sincerely yours,

Katherine Russell,  
Secretary to the Director

Dr. A. D. Fokker  
Natuurkundig Laboratorium  
Teylers Stichting  
Haarlem, Holland

Natuurkundig Laboratorium,  
Teylers Stichting,  
H a a r l e m.

Haarlem, 13 Juni 1952.

Professor Oppenheimer,  
Institute for advanced Study,  
P r i n c e t o n New-Jersey  
U.S.A.

Dear Oppenheimer,

I am writing to you to request your opinion and judgment now that we have to fill the vacant chair of Hans Kramers in Leiden. His death was a severe blow and an irreparable loss.

We want a young man, who has been working in the front line of theoretical physics with a genuine genius. Will you kindly write to me about Pais, his merits and the chance that we could get him back to his native country?

Sometimes we think that he is so much absorbed in abstract particles that he might not be aware of interesting problems which present themselves in the field of the laboratory at Leiden. What can be said on this point? I assume that he has plenty of experience and ability to put other people on the track of a problem; was not that his particular job in Princeton?

I hope you will find the leisure to tell me about the qualities of this candidate, quite confidentially, as in a private talk. Do help us to get the right man in this place which means so much to us!

Years rush by with increasing celerity! We must comfort ourselves seeing young faces in old places!

With kindest regards,

yours very sincerely,

*A.D. Fokker*

Prof. A.D. Fokker

THE INSTITUTE FOR ADVANCED STUDY

Founded by Mr. Louis Bamberger and Mrs. Felix Fuld

PRINCETON, NEW JERSEY

7th  
Pais

~~Leeds with Pais  
Set for Leeds. at  
12:30~~

physics com at 3:00

Dear Robert

I hear that Tuesday  
there will be a meeting of the physics committee.  
I would much like to have a talk with you before  
that, to take stock and to tell you of my experiences of  
this year in building D. For this purpose I want to drop  
you out of the Institute for an hour and invite you  
to have lunch with me on Tuesday in the stack room  
of the Tavern. I know full well how busy you are but  
my mind is completely at ease in asking this much of  
your time. We owe this much to each other and to the  
physics group.

Brau



THE INSTITUTE FOR ADVANCED STUDY  
PRINCETON, NEW JERSEY

OFFICE OF THE DIRECTOR

February 7, 1951

Dr. Abraham Pais

Dr. Pais was born in Amsterdam on May 19, 1918. He obtained his Doctor's Degree at the University of Utrecht in 1941. During the years of the occupation, he continued to work under conditions of great difficulty, and the year after the war he was an assistant at the Institute of Theoretical Physics in Copenhagen. In the fall of 1946, Dr. Pais came to the Institute for Advanced Study.

The record of Dr. Pais' work in the last decade is almost a history of the efforts to clarify our understanding of basic atomic theory and of the nature of elementary particles. Pais first proposed the compensation theories of elementary particles, and much of his work has been devoted to exploring the success and limitations of these theories, and indicating the radical character of the revisions which will be needed before they can successfully describe the sub-atomic world. Pais has made important contributions to nuclear theory and to electrodynamics. He is one of the few young theoretical physicists who within the last decade have enriched our understanding of physics.

Statement prepared by J. R. Oppenheimer  
Enclosure: Bibliography of papers by Dr. Pais

*For Pais*

January 19, 1951

Dear Professor Pais:

It gives me great pleasure to inform you that on the unanimous vote of the Faculty and the Board of Trustees of the Institute for Advanced Study you have been appointed a Professor in the School of Mathematics of the Institute. The term of your appointment starts on July 1, 1951, and continues until the age of your retirement. According to present practices, retirement takes effect on the 30th of June after you have passed your 65th birthday. Your initial salary has been fixed at \$12,500 a year. In order to make provision for your retirement, the Institute would be glad to contribute 5% of this sum (\$625.00) toward the purchase of a retirement policy provided that you will make an equal or greater contribution. ] X

I should add that all of us at the Institute welcome this appointment, and look forward to a future of happy association with you. This step is taken in appreciation of your past work, in high hopes for the work of the future, and with the full recognition of the value which your counsel will be in guiding the Institute's policies.

Robert Oppenheimer

Professor Abraham Pais  
Institute for Advanced Study  
Princeton, N.J.

Copy: Miss Trinterud

July 9

Dear Robert

Before leaving I want to come back for a moment to a point we discussed some time ago and to which we didn't return as there are other things now which are so obviously of more importance to you and to all of us. It is this question of a leave. I quite strongly believe that the view I took the other day is the correct one if one accepts the view that, say, 1 year's leave in ~7 is of benefit to the Institute as well as to the faculty member. Without going deeply into semantics, it seems to me that the meaning of sabbath depends on the meaning of the weekdays' work. When Bolin is exhausted he goes wood chopping. - By the way, I do not believe that this problem is so entirely aimed to me as you suggested. I am sure Harold (to mention an example which came up) would want to teach at Oxford or Cambridge for a year if a sabbatical of the kind I have in mind would be possible for him. And I understand that in fact Pan had a leave of just such a kind.

While I cannot and would not claim to be a disinterested party to this, I want you to think of this, Robert, in the light of the relations between our staff and the broader community. I have had a growing uneasiness about this, especially in the past month or so. For example, and quite apart from the deep trouble of the day, I cannot but think that

men like you or Johnny just could not entirely fulfill themselves if the Institute were your only concern and responsibility — and I think that is proper. It has been said to me: permanence at the Institute should mean working there ~ 10 years and then leaving. I do not share this view, but I do not believe that the problem rests thereby. It is in the light of such considerations that I would ask you to give another moment's thought to the problem on hand.

I saw Neys Weisgal the other day. He told me of the invitation he has extended to you. As you know, I see all the difficulties for you in accepting at this moment. But I hope, for that strange little country and for you, that you will visit there some day soon. You will never forget it and never regret it.

I have gone through 600 pages of the transcript and have learned a lot from that.

I'll let you know when I learn some news in physics.

As ever  
yours

Boas