Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

# 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

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

# PUBLICATIONS OF ABRAHAM PAIS

The energy momentum tensor in projective relativity theory, Physica 8 (1941), 1137-1160.

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On the photo disintegration of the deuteron, Proc. Copenhagen Acad. 20 (1943), No. 17.

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On the theory of the electron and the nucleon, Phys. Rev. 68 (1945), 227-228.

(With L.J.F. Broer) Note on the theory of vector wave fields, Proc. Amsterdam Acad. 48 (1946), 190.

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On the theory of elementary particles, Verhandelingen Kon. Ned. Ac.v. Wetenschappen Amsterdam (With C. Møller)

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.

(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.

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

# Memorandum

To Mrs. Russell. Date November 17, 1950.

From Dr. A. Pais. Re Seminar.

Dear Kay:

Please tell Robert that I would very much like to have a discussion on the relativistic two-bodied problem, for the seminar of December 5. Levy has new ideas on this problem and is willing and eager to give this seminar.

A. Pais.

AP:jds.

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

THE INSTITUTE FOR ADVANCED STUDY
PRINCETON, NEW JERSEY

Mr. Pais

November 1, 1950.

Dear Robert:

In case I do not see you in Chicago, this is to tell you that I have spent sometime in getting further into the mesonics, but I would not be able to give a well digested account of affairs next Tuesday. I have asked Sylvia to announce for Tuesday a seminar entitled, "Further Discussion of Meson Production". I hope that you will have the floor there for a considerable amount of time. May I remind you of the idea that you should, at sometime, give an account of the high energy cosmic ray data; perhaps this could be the following week.

I will be back this coming Sunday.

Yours ever

Bob

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

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

September 27, 1950

Luxemburgh

Contact Idlewild arriving Seaboard 74644.

Pais

plane has not left yet —
Olympia 6-5880 — call 8 or 9 tonight

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

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W. P. MARSHALL, PRESIDENT

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=LEARY-ADVANCED STUDY=

=PRINCETON (NJER)=

=CONTACT IDLEWILD ARRIVING SEABOARD 74644=

=PAIS=

TELEPHONE No. 2580
TELEPHONED TO
TIME 10.53 A
BY TO BE
ATTEMPTS TO DELIVER

74644=

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

PONT-ROYAL HOTEL
7, Rue Montalembert. PARIS

R. SOALHAT, Adm^r Direct^r

Même Direction: HOTEL ASTORIA-VICHY

9/10
Monday.

Dear Eleanor

To my regret I got a call this morning saying that my flight back is delayed for a few days. I now reckon to be back on Sunday or Monday forthcoming. I do not yet have the flight number but will cable all details as soon as I have them. I will arrive at Idlewild.

Please tell those concerned that I could give a report on the nuclear physics conference at Oxford, if there is interest for this. I suggest the Friday colloquium as it should be at least as relevant for the experimental people as for theoreticians.

I dislike this delay and will be glad to be back

With best regards

Bram.

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

May 21, 1949

To: Mr. Bradley
Miss Trinterud

From: Mrs. Leary

The following motions were passed by the Board of Trustees at the meeting of April 15, 1949:

1. That the Institute contribute $7,500. to the Princeton Hospital Building Fund from the contingent fund.

2. That Dr. Pais' appointment be changed to a permanent membership with a taxable salary of $8000. with a TIAA annual contribution of 5% of this salary from the Institute to be matched by a similar contribution from Dr. Pais.

These motions were formally approved at the meeting of the Board on May 20, 1949.

Concerning (1) above: Please see that this contribution appears as a charge against the contingency fund and not against #115 as it does in the April statement.

Concerning(2) above: See the Director's letter of April 20, 1949.

Assistant Secretary of
Board of Trustees

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

1949

m 7
Pais

# PAIS' ITINERARY

| | | |
|---|---|---|
| June 17th to 25th | - | Sailing "Marine Jumper", New York to Plymouth |
| | | Correspondence address: c/o J. Pais<br>139 Weesperzijde<br>Amsterdam C, Holland |
| July 5th to 9th | - | Physical Institute<br>Electrotechnical High School<br>Zürich, Switzerland |
| End of July to September 10th | - | Institute of Theoretical Physics<br>Blegdamsvej 15<br>Kopenhagen Ø, Denmark |
| Return passage September 22nd | - | "Marine Jumper" |
| | | Shipping information: U. S. Lines,<br>1 Broadway<br>NewYork 4, N. Y. |

Plans indefinite for attending Solvay Congress.

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

June 11, 1949

TO WHOM IT MAY CONCERN:

This is to certify that Dr. Abraham Pais is a Permanent Member of the Institute for Advanced Study. He receives from us an annual salary of $8,000 to take care of his expenses while in this country. Dr. Pais is a member of high standing at this institution and in this community; and we should greatly appreciate every consideration being given Dr. Pais in connection with his re-entry into the United States.

Robert Oppenheimer
Director

Subscribed and sworn to before me
this 11th day of June, 1949

_____
Notary Public of New Jersey

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

THE INSTITUTE FOR ADVANCED STUDY
PRINCETON, NEW JERSEY

OFFICE OF THE DIRECTOR

May 21, 1949

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Miss Trinterud

From: Mrs. Leary

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Concerning (2) above: See the Director's letter of April 20, 1949.

Assistant Secretary of
Board of Trustees

COPY

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

School Math

Return to Dir. Off

Profs. Einstein ✓
Morse
v. Neumann ✓
Siegel ✓
Veblen ✓
Weyl ✓

THE INSTITUTE FOR ADVANCED STUDY
*Founded by Mr. Louis Bamberger and Mrs. Felix Fuld*
PRINCETON, NEW JERSEY

Prof M Pais

April 24, '49.

Dear Dr. Oppenheimer

Thank you so much for your letter of April 20. I am deeply grateful to you and to the Faculty of the School of Mathematics for showing your trust in me in making such a generous offer which I am glad to accept. I must say, however, that it is sometimes hard for me to understand whereon such confidence is based. However this may be, I will try to the best of my abilities to further the aims for which the Institute stands.

I cannot conclude without mentioning the obligations I feel towards European science. I do hope that my wish to fulfill them may well be considered as compatible with and perhaps even an intrinsic part of my work in Princeton.

A Pais

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
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Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
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Montmartre at the back. The white church is the Sacré-coeur (Holy Heart) from which one has a magnificent view.

PARIS ET SES MERVEILLES
389 La butte Montmartre
vue du palais du Louvre

July 9

Dear Kay. I have been in Paris now for some days. It is terribly cold here, but what a lovely city. I have seen some nice plays and beautiful paintings. Tomorrow I am leaving for Prague. (All mail to Holland please).

How are things with you? I hope you are feeling OK in all respects. How is life at the Institute?

With best regards for you and Bill

yours ever
Bram

André LECONTE, 38, rue Ste-Croix-de-la-B
Ed. d'Art "GUY", Fabrication Française -

Mrs. Kay Russell
Institute for Advanced Study
Princeton N.J.
U.S.A.

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

Physics

Copy to: Miss Blake
Mrs. Leary
Miss Trinterud

April 20, 1949

Dear Dr. Pais:

It gives me great pleasure to report to you that the School of Mathematics, the Faculty of the Institute for Advanced Study, and the Trustees of the Institute for Advanced Study have reconsidered the status of your appointment to the Institute. They have approved two changes in this status:

(1) Your appointment, instead of being on a five-year basis, will now be, if you care to accept it, a permanent appointment extending to the age of 65. You may wish to avail yourself of the customary Institute procedures according to which you and the Institute each separately contribute 5% of your annual salary to the TIAA in order to build up a fund which is available to you on retirement. The details of this insurance plan can be made available to you through the comptroller's office. In any case, the Institute will be glad to make the contribution if you elect to follow this course.

(2) In recognition of the responsibilities that you have assumed for the work in physics at the Institute, and of your desire to continue to assume them, we have thought it desirable to give you a fixed, taxable salary of $8,000 a year and to discontinue the grant-in-aid. We shall report this salary as taxable income to the Bureau of Internal Revenue.

Whatever the future may have in store for physics, for you or for the Institute, one thing needs now to be recorded. That is my own deep sense of gratitude and that of all your other colleagues that you have elected at this time to continue your work with us here.

Robert Oppenheimer

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

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

HOUSING

rector's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
om the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

UNIVERSITETETS INSTITUT
FOR
TEORETISK FYSIK

BLEGDAMSVEJ 15
COPENHAGEN, DENMARK

Sept 8.

How is Kay?

My dear Eleanor

In a few hours the Oppies & self are leaving Denmark. I think they enjoyed their first visit here and of course, self was happy to be in Scandinavia again.

Thanks so much for your very nice letter. It was good to hear from you again and to know, not quite to be forgotten.

I will not tell you now about all the pleasant things I saw and experienced this summer because I'll be back soon and then we can talk and I will also bring you a .

I leave Southampton the 22nd per Nieuw Amsterdam and hope to be in NY around 28th or 29th.

Bradley

There is one important thing I would like to ask: Could Mr. Bradley please have my car checked over carefully* so that I can get going again when I come back? (And if you care to, why don't you come and fetch me with it and we'll have a nice drive back?). It also should be sent for inspection.

* There is a screw missing in one of the windows of the back door. Spare screws are in the trunk.

ector's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
om the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

I am looking forward to seeing my apartment again, last night I dreamt that Cherries had 4 kids and awoke with the sweat on my brow. It is sad that I shall not see the beautiful things of last year. But ~~[illegible]~~ if the table can be got hold of that would be wonderful.

I got the money all right, thank you not only for that but also for sending the money to Rita in Prague.

We'll meet Asha in some way from Kiaga to Esbjerg in Jutland where we take the boat.

Bye ~~now~~ and see you soon

yours ever

Bruno

Mail 14-18 Sept. c/o Physics Conference
The University
Edgbaston
Birmingham 15 England

Miss Blake
informed 9/13

→ until Sept 22 on board SS Marine Jumper
U.S. Lines (sailing Sept 22)
Southampton, England

to await arrival

Please inform Miss Blake also.

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

# Memorandum

To Mr. Bradley Date 8/25/48

From Mrs. Leary Re Dr. Pais - 14 Dickinson

Dr. Pais is taking third floor of 14 Dickinson again - starting to pay rent of $550 a month on September 1st. The same terms as last year, as we agreed, which includes the garage.

He has asked that following be done:

1. Door between his bedroom and living room be taken off.

2. Bookshelves be built in in closet of front room - to give appearance of built-in library. Door to be taken off. He thinks there will be room left to store things.

3. He has sent books from Holland to Dickinson - should arrive about Sept. 1st. Can arrangement be made to get them inside?

4. He wants a couch-bed (housing ones, I suppose) in bedroom instead of regular bed he had. I shall have to see what I can give him of my furniture after Sept. 8th - I'll tell Mrs. Stephens.

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

August 25, 1948

My dear Pasha:

Both your nice letters reached me and I am sorry to be so late in replying. We have had, and are having, a hectic time. Kay is still with us - very much so - but momentarily we expect to see her take off. The Oppenheimers sailed the twentieth. Before you get this they will probably be in Kopenhagen, and seeing you.

About the money - the First National Bank is cabling you $200. today, to the American Express Company, Kopenhagen. They advised me to send it to you in Travelers checks since otherwise you would probably get it all in Danish currency. I was not sure what method you preferred but presumed the checks might be better since you are leaving Denmark so soon. They will not guarantee dollar credits anywhere now apparently - but they did tell me you could take your choice about the checks when the remittance reaches you so I hope all is well. The $200. is deducted from your stipend here as will be the cable and check charges when we have them.

I have sent a check to the Slavia Trading Company in favor of Mr. Mila Trefuý - tardily, I'm afraid. It seemed easier to send my personal check for $20.

About the apartment - I hope it can be fixed up the way you want it. Taking the door off connecting the two rooms, and the couch instead of the bed, will be easy. And Mr. Bradley is sending someone down about the bookshelves to be built in in the closet. That will have to be checked with the landlord. I cannot quite visualize those two rooms as one with that narrow doorway but maybe it will work out. We will be on the lookout for the books.

The furniture is going to be a problem but we will do the best we can. My brother is being married next week - my sister is taking her share - I have to move to a furnitureless garage - so I just do not know what pieces of ours will still be at Dickinson. If the large table is left over you will have it. It is now in a professor's house for the summer and may have to stay there.

None of this sounds too encouraging for your plans - which really are nice - but I am sure we can make it liveable.

About the Institute - it has missed you very much. Aasha came through last night. He sails Saturday, August 28th, on the Mauretania, but thinks he may just miss you in Kopenhagen. He looked weary but well. His car broke down in Missouri and after a week of nursing it he had to desert it. Hel is still here. Her papers have been lingering between the State Dept. and the British Zone for months - and that is a never-never land without compare. She and Peck have been mathematicing and swimming all summer, but she is really worried about her return. She hopes to get off on a sailing Sept. 13th.

There are only two physicists here - a Kenneth Watson who is working with Smyth and Lepore who is living at Kay's and seems very earnest. But the

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
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place stays crowded with assorted characters. We have been busy every minute. Mexico was just a dream and I was not too anxious to go anyhow. I did have a brief week in Marblehead - do you know where that is? - surrounded with my cousins, my uncles and my aunts - all Dutch, of course.

Dr. Oppenheimer blew in and out last week. I think we just had time to worry him but the Jutlandia looked beautifully peaceful and I imagine both of them will have a needed respite. But the whole family looked blooming after California.

The new office wings are approaching the carpentering stage. So far offices have not been allocatted, but tentatively I have put your name on an office in the wing (A) nearest Dr. O's office. I thought you were undecided. Of course your old office remains yours until you decide otherwise. The wings will not be completed until October at any rate.

Professor Harold Cherniss is the name. He is expected (with Mrs. Cherniss) about September 8th and is to be at the Inn for a while as their furnishings will not be here. His present address is the University of California at Berkeley, but you had better address him here. The Institute might be the safest address.

I have just noted that one of the incoming members, Professor Jan Weyssenhoff from Krakow, Poland, is booking passage on the Marine Jumper expecting to arrive here about October 1st. I do not know anything about him except that Professor Wheeler has been interested in his coming.

Before closing I must make confession. Hel gave us your swimming pool card and we went as your family - "we" being Mrs. Godel and I. I forget which was your wife and which your daughter! But we shall have to treat you to a swim if you are back in time. That is really a good pool - if you get there early.

Don't wear yourself out conferring. But I am jealous - I would like to study physics and see the world.

My very best to you - write me if there is anything else. I will really try to have your apartment fixed up. I just do not think we can do as well by furniture as we did last year.

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

Tisvilde, August 20.

My dear Eleanor

This is to ask you to do me another favor: would you please call up the First National Bank and ask them to cable $ 200.- immediately in my favor to American Express Cy, Kopenhagen, Denmark. From the experience of friends of mine I have learned that it is vastly preferable not to write directly to the Bank. The reason being that they are never clear sure whether there isn't a man with a gun standing behind me and forcing me to write — or something similar.

For the rest, I am continuing to have a very fine summer. At the moment I am staying with the Wesorhoff's here in a little place on the coast. It is very quiet and peaceful here. I do a lot of reading.

How are things with you? I guess you must have been on a holiday. Where did you go and how was it? Did your sister and yourself go to Mexico as I seem to remember the plan was for some time?

I am also sending a big trunk exclusively filled with books. It leaves Holland to morrow (I hope) and should arrive in Princeton around September the first.

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
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It will be sent to Dickinson Street. Has Mr Chernias (is that the correct name?*) and family moved yet?

I also have a plan regarding my appartment. Do you remember the closet in my front room? Opposite the door when you enter. Now I have thought of the following: I would like to take the door out and then – if possible – to have shelves put in, so that I get a "built-in" little library. Of course the possibility still exists that I can store things as the closet is much broader than its door.

I would really be happy if you could send a man over to do that, if it can and may be done. And then we can settle the coming financial problem when I get back. You see, Eleanor, I really would like to have a livable place when I get back, I need it badly.

I will stay in Denmark til September 8 or 9. Then go to Manchester. Then Birmingham – Harwell – Bristol if possible and back. Please write me.

Mailing addresses: until Sept. 8: Kopenhagen
between Sept. 14–18: C/o Prof. R. Peierls
Physics Dept.
The University
Edgbaston – Birmingham 14.
before Sept 21: C/o. U.S. Lines; On board S.S. Marine Jumper. To await arrival.

I am looking forward to seeing you again. Til September!

Yours Bram

* Please tell me whether this is the correct spelling. I would like to drop him a line before my departure from Europe.

Is Kay all right? When will everything happen?

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

Amsterdam July 24.

My dear Eleanor

Since yesterday I am back in my native Amsterdam again and it is good to be here. The last few weeks I have spent in Czechoslovakia, a most interesting experience. Prague is a lovely city, it is called the town of the hundred spires or the fairy tale in stone. But all that I will show you on pictures when I'll be back. The political situation there is complex and not too appealing.

As I promised you, I write you before August first concerning the appartment in Dickinson. I would very much like to have it for next year on the basis we tentatively discussed before I left. Thus I'll start paying rent as of Sept. 1, $55.- p. month. It is understood, I presume, that I can use the garage. How is it with the furniture? I do hope I'll have the beautiful working table and the other heavy wooden pieces.

I have plans to make it to a really nice and liveable place next year. In particular I consider taking the door out which leads from one room to the other, provided I could get some broad couch instead of the bed I used last year, so that I can use the whole appartment as one large living room. You think I could get a couch instead of the bed? I will also need some not too big bookshelves as I intend to take books

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

from here to the States. I do hope you will find time to drop me a line about this.

On behalf of a Czech friend of mine I would like to ask you a favor: could you please send to

Slavia Trading Company
1433 First Ave
New York 21, N. Y.

a cheque of $ 20.- in favor of

Mr. Mila Trefný
Plzeň
Malická 20
Czecho-Slovakia.

(The "in favor of" to be explained in an accompanying note). If you would be kind enough to do so, please deduct this amount from my August money or otherwise we'll settle things when I'm back. I can not do this directly from here as the Dutch government prohibits sending cheques abroad. Thanks for all you can do for this. It would be a good thing.

The day after to morrow I'll see Nijboer and will write Kay then. After these weeks of travel and fresh air I am going back to my physics again.

How are you Eleanor? I would be happy with some news about your experiences in these last weeks. How are all the friends? Please give my very best regards to Hel.

WRITE!

Yours ever
Braun

shorter, but more!

I wrote to Oppenheimer last week (to Eagle Hill) I hope my letter reached him.
Asha does fine in California.

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

March 17, 1948

Ref: ID 0400/27976

Dear Mr. Zimmerman:

I have received a form letter from your office, under your signature, regarding the status of Dr. Abraham Pais, a Member of the Institute for Advanced Study. The letter stated that a notice had been received from this institution advising that Dr. Pais had been admitted as a "student", and requesting that his papers be sent to your office for clarification of his immigration status.

On November 19, 1947 a notice had been sent to your office advising that Dr. Pais had returned to the Institute after a short visit to Denmark. No other notice had been sent that I know of. Dr. Pais has a 4(d) non-quota immigration visa, No. 52, issued at Kopenhagen on September 18, 1947.

Confusion may have arisen from the fact a report was sent to your office regarding Dr. Pais when this was not necessary under regulations for the 4(d) visa. If this is not the case, and you wish further information, or records, please let me know.

Yours sincerely,

Director's Office

Mr. Karl I. Zimmerman
Immigration & Naturalization Service
42 S. 15th St.
Philadelphia 2, Pa.

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

4 - 395
Rev. 2-25-48

UNITED STATES DEPARTMENT OF JUSTICE
IMMIGRATION AND NATURALIZATION SERVICE
PENNSYLVANIA BUILDING
42 SOUTH FIFTEENTH STREET
PHILADELPHIA 2, PA.

PLEASE REFER TO THIS FILE NUMBER

March 11, 1948

ID 0400/27976

Dr. Abraham Pais
28 Hibben Road
Princeton, N. J.

Dear Sir ~~or Madam~~:

A notice has been received from the school which you are attending, in which it is stated that you were admitted to the United States as a student.

In order that your immigration status may be determined, it is requested that you forward your passport to this office by mail. After it has served its purpose it will be returned to you.

Very truly yours,

Karl I. Zimmerman
District Director

By; T. R. Martinez, Chief,
Investigation and Deportation Section

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

No. 4 Bear Mountain Inn, Front View Bear Mountain Park, N. Y.

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

POST CARD

Dear Kay, we greet you from white parts of the universe. You were wonderful there last days of the old year. I hope we'll have more fun the New one. I have forgotten many things a.o. my passport so I cant get into Canada. I do not know now of any address were we might be. So I think science will have to flourish without me which will do it no harm (nor me). Around Jang I will be in Cleveland to get my car C/o. Gressel 2193 Oakdale Rd. Cleveland Hts 19 Ohio. With very best wishes yours Bram.

Mrs. K. Russell
Institute for Adv. Study
Princeton
N.J.

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Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

# Memorandum

To Mrs Russell Date 6-16-48

From Mrs M.B. Stephens Re Dr Pais, Math.

I understand that Dr Pais is leaving either today or tomorrow to be gone until September. When he returns he will probably again occupy the apartment at 14 Dickinson Street.

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

June 8, 1948

Alien Tax Division
Room 400
17 East 42nd St.
New York, N. Y.

Gentlemen:

This is to certify that Dr. Abraham Pais is a Member in good standing in the School of Mathematics of the Institute for Advanced Study. He has been appointed for a five-year term and has been given a grant-in-aid of $6,000.00 per year to cover the expenses of his stay in this country. This sum is not given to him in compensation for services rendered, and it therefore comes within the definition of non-taxable income as defined by the Bureau of Internal Revenue.

Dr. Pais plans to spend the summer months visiting in England, Holland and Denmark; he will sail from New York on June 17th on the "Marine Jumper", and will return to the United States on September 22nd on the United States Lines "Marine Jumper". Dr. Pais is in every way qualified to receive tax clearance and sailing permit.

Yours sincerely,

Robert Oppenheimer,
Director

Subscribed and sworn to before me
this 8th Day of June, 1948.

_____
Notary Public of New Jersey

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

*Charge to the account of* _____ $ _____

| CLASS OF SERVICE DESIRED | | | |
|---|---|---|---|
| DOMESTIC | | CABLE | |
| TELEGRAM | | ORDINARY | |
| DAY LETTER | | URGENT RATE | |
| SERIAL | | DEFERRED | |
| NIGHT LETTER | | NIGHT LETTER | |

Patrons should check class of service desired; otherwise the message will be transmitted as a telegram or ordinary cablegram.

# WESTERN UNION

A. N. WILLIAMS
PRESIDENT

1206

CHECK

ACCOUNTING INFORMATION

TIME FILED

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

Radiogram
October 6, 1947

Dr. Abraham Pais
Lafayette (Atlantic)

Please call me as soon as you can. Have made plans for Wednesday which I need to discuss with you.

Robert Oppenheimer

Charge Institute

Director's Office: Faculty Files: Box 23: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

Kopenhagen Sept 26

Dear Robert

I believe now that there are really two kinds of intermediary mass particles. Powell has now 11 tracks of the ⟋ kind and Le Prince Ringuet has also found one. Remarkable feature: Powell, expressing himself with great caution, said it was hard to believe that the unseen neutral particle has mass zero (or very small), in fact his best determinations tend to indicate a mass of the same order of magnitude as the secondary charged particle. But I think that it will take 3-4 months before Powell will commit himself on this point.

We must be prepared for surprises and progress

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

I am leaving Kopenhagen tonight with the "Lafayette" (contact address American Export Lines, Inc. 25 Broadway, New York 4) and will be in New York in 10 days. Needless to say that I leave schweren Herzens. Needless to say that I look forward to seeing you and Kitty again.

Abram

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

September 30, 1947

Dear Brahm:

I will be back Sunday night or Monday, according to the fortunes of war, and very eager to see you. Almost everything can wait except for one. I have scheduled our first theoretical seminar, jointly with Princeton and Columbia, for Wednesday afternoon, the 8th, and have announced without misgivings, but not without a sense of guilt, that you would report on the talk at Copenhagen. I am sure that this is the best way to get the year started and a quite informal approach will surely be good.

While you were away, we had a little Ram Island conference at Brookhaven and if you do not have enough to tell, and this would seem very unlikely to me, we can say a few words in comment about the term-shift problem and about the meson mysteries. Have you seen the recent beautiful picture of Powell and Ochialini, in which a meson produced in one star makes another?

There is very, very much to talk of and I will look you up as soon as I get back.

Yours,

Dr. Abraham Pais
Institute for Advanced Study

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

Kopenhagen Sept. 5.

Dear Robert

I have arrived in Kopenhagen and brought your greetings to Bohr. A conference in ordinary style will not be held, many people are expected to drop in, so to say, and I need hardly tell you that Bohr like we all would be happy if you could find opportunity to come and join in the discussions. As to Bohr's coming to the United States, he was definitely non-committal. But I am sure he would be happy to come and he mentioned to me that he would be grateful to have an official invitation from the Institute of which he could so to speak make use at the most appropriate moment.

It is good to talk with Bohr again, he is full of hopes and ideas. But more busy than ever with the building project in full swing, unfortunately his time available for physics seems to be limited this year. Of dates of arrival I only know: Rosenfeld ~9, Weisskopf ~13 Wheeler ~15, Rossi ~18, Pauli, Powell ~19. Others come too, dates unspecified.

Like yourself I got an invitation from the French. What did you do about it? I do not feel too interested anyhow.

Hans was not as bad as I feared and not as ~~good~~ well as I would like him to be. He sends his love to you and Kitty.

Truman's isotopic message was greatly appreciated.

There are new photo's of Powell on the 2 kinds of intermediary mass particles, confirming the original 2 pictures. He has some 6 now.

And after reporting a good Toulouse-Lautrec exhibition in Amsterdam, the cleaning up of the Nachtwacht, the beauty of Amsterdams canals, the charm of

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

the Danish female fauna, the strength of the schnaps, I send you and Kitty my very best regards. Of course it would be fine if you would drop me a line if there is anything of interest.

Yours

Bram

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

August 22, 1947

Dear Dr. Pais:

It may be convenient to you, especially in connection with your obtaining a suitable visa for re-entry to the United States, to have a brief but official outline of the nature of your duties at the Institute for Advanced Study.

As you know, you will be expected, in addition to prosecuting research in fundamental physics that interests you, to participate in the training of younger physicists, to take part in seminars, and from time to time to give courses in instruction as may be commonly agreed by us.

These three activities, and your own researches, should thus contribute in an important way to advancing theoretical physics.

Yours sincerely,

Robert Oppenheimer,
Director-Elect

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

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

UNIVERSITY OF MICHIGAN
ANN ARBOR

THE HARRISON M. RANDALL LABORATORY
OF PHYSICS

Ann Arbor, July 1st.

Dear Oppenheimer

I was very happy with your telegram. As I will be back in Princeton between August 10-15 and will certainly not leave before August 25 I think it is very probable that we will meet before I go. In case you would not yet have arrived in Princeton by that time, please let me know where I could come to see you, whenever it is convenient to you.

At the moment I am in Ann Arbor lecturing on what might be called "From good old Lorentz' golden days to the mysteries of Shelter Island. Which reminds me to ask your opinion about Bethe's note on the line shift. Frankly speaking, I felt miserable after having read it. I cannot help feeling that it is a slightly obscene kind of physics and even if it is true that the solution has to be sought along these lines, it is far from clear from this note why this can be justified – notwithstanding the numerical agreement.

One of the things I tried the last few weeks was to find a more concise answer to the question what really is wrong with quantum electrodynamics. Surely we all know that everything becomes oo but as the power series development makes it so

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

difficult to compute what euphemistically is called higher "approximations" and the approximation procedure which underlies this formalism can hardly be defended for the problems on hand, I tried to do something else. I got to think of this because of the well known $\frac{e^2\hbar}{\pi mc}\int k\,dk$ (I) infinity. Now one can picture oneself this transverse energy by considering the electron as a small oscillator getting kicks from zero point fluctuations. Considering in this rough model the electron as being a damped oscillator one would get however

$$\frac{e^2\hbar}{\pi mc}\int \frac{k\,dk}{1+\left(\frac{2}{3}\frac{e^2k}{mc^2}\right)^2}$$

which anyhow serves to illustrate how a) power series in $e$ might break down at high frequencies b) that inclusion of "higher approximations" might not necessarily worsen things. (Please note that on hole theory the $k\,dk$ becomes "by itself" already $\frac{dk}{k}$!) - Now what I tried was an expansion in continued fractions. Indeed for a matrix

$$\begin{vmatrix} \lambda_0 & H_{01} & & & \\ H_{10} & \lambda_1 & H_{12} & & 0 \\ & H_{21} & \lambda_2 & H_{23} & \\ & & H_{32} & \ddots & \\ 0 & & & & \ddots \end{vmatrix} = 0$$

we have the suggestive result

$$\lambda_0 = \cfrac{H_{01}H_{10}}{\lambda_1 - \cfrac{H_{12}H_{21}}{\lambda_2 - \cfrac{H_{23}H_{32}}{\lambda_3 - \cdots}}}$$

The radiation field problem is actually a super Jacobi problem, i.e. every $H_{ik}$ itself becomes a matrix. One can do something - I am now so far that instead of (I) I get

$$W = \frac{2e^2}{\pi\hbar c}\int \frac{p^2\,dp}{2p(m+W) - W(2m+W)} \qquad (\to W \text{ if } W \text{ is just } 0 \text{ on the right}).$$

Note the new singularity due to pole in denominator. Johnnie v. Neumann says I may not take a principal value there. Well, excuse my babbling, have a further good rest and please greet your wife from me

With very best regards yours Bram Pais

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

April 7, 1948

Pais, Abraham Physics

Dr.phil. 1941 Univ.Utrecht

Born May 19, 1918, Amsterdam, Holland
Citizenship - Dutch
Unmarried
Entered USA:
1) on S.S.Edam, Sep.16/46 at NYC under Temporary visitor's visa No.219, issued Aug.2/46 at Copenhagen,Denmark, expiring Aug.2/47. Entry permit expires Sep.16/47
2) on S.S.Lafayette Victory (Am.Export Lines), Oct.7/47 at NYC under Non-quota Immigration Visa (4-D) No. 52, issued Sep.18/47 at Copenhagen,Denmark. No expiration

Princeton home address - ~~148/Hodge/Rd. 28/Hibben/Rd. 14 Dickinson St.~~ 50-V-1 So. Olden Lane
In case of emergency notify Mr.J.Pais, 139 Weesperzijde, Amsterdam C, Holland, or Mr. Louis A. Roselaar, 551 Fifth Ave., New York City
Honors and societies:

Positions held:
Utrecht Univ. - Asst. 1939-41
Copenhagen Inst.Th.Phys. - Feb.-Aug.1946
IAS stipend 1946-7; permanent member 1947-

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

3/17/48

Abraham Pais - Permanent Member (5 year term). Stipend $6,000 a year.
Not a citizen; has permanent visa.

Not taxed

Original appointment letter December 4, 1945 states Institute awards him a stipend of $1800. for the academic year 1946-47.

Letter from Director December 6, 1946:

"It gives me great pleasure to offer you on the recommendation of the Faculty of the School of Mathematics a renewal of your membership in the Institute for the academic year 1947-1948, fixing your stipend for that year at $2500."

June 20, 1947: "To Whom It May Concern:

"This is to certify that Dr. Abraham Pais has been appointed to permanent membership in The Institute for Advanced Study with a stipend of $6000. a year. We consider the presence of Dr. Pais of great importance for the progress of mathematical physics in the United States."

Attached copy of letter from Director, August 22, 1947, was written for visa purposes.

Field - Research in fundamental physics. Work is independent; comparable to regular stipend memberships.

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

June 20, 1947

TO WHOM IT MAY CONCERN:

This is to certify that Dr. Abraham Pais has been appointed to permanent membership in the Institute for Advanced Study with a stipend of $6,000 a year. We consider the presence of Dr. Pais of great importance for the progress of mathematical physics in the United States. I should be most grateful if his Visitor's Visa could be extended and I hope that eventually he will be granted a permanent visa to the United States. He is a scholar of distinction and a man of the highest possible character.

FRANK AYDELOTTE
Director

Subscribed and sworn to before me
this 20th day of June, 1947.

_____
Notary Public of the State of New Jersey

Copy to Miss Miller
Miss Blake

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

THE INSTITUTE FOR ADVANCED STUDY
SCHOOL OF MATHEMATICS
PRINCETON, NEW JERSEY

gPS
Pais

Princeton June 14th.

Dear Oppenheimer

I would be very happy to know your opinion and have your advice concerning the following problem: I have an opportunity to sail to Europe August 26th and be back here October 3rd. I could namely get transport from New York to Oslo and from Southampton to New York. Point 1 is: would you agree to my being away that time to visit Uncle Nick and hear what's going on? Please do not hesitate – if I may say so – to tell me whether it would be inconvenient for you in view of other things. Point 2: I think – although I didnt hear anything official yet from Aydelott – that my status of the next year entitles me to obtaining a non-quota immigration visa (I have now a temporary visitors visa) and as you know of course one can get that only from a consulate abroad. It occurred to me that if the Kopenhagen scheme would be convenient and workable I might try to get it there and start now by preparing things. What is your opinion about this?

What with line shifts and what not I have thrown myself on refinements of perturbation schemes and the like and get something like a slightly modified approach on which I work hard now. Do have a good rest with the jug of wine, book of verse and thou – to whom I send best wishes. With kindest regards yours Abram Pais

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

August 11, 1947

Alien Tax Division
Room 400
17 East 42nd St.
New York, N. Y.

Gentlemen:

Dr. Abraham Pais, who is a permanent member of the School of Mathematics of the Institute for Advanced Study, arrived in Princeton on September 26, 1946 to undertake his researches for the academic year 1946-47. During the period of his residence, Dr. Pais received a research stipend of $2,100.00.

This stipend was given to Dr. Pais to facilitate his own researches and was not in compensation for services rendered. It therefore comes within the definition of non-taxable income as defined by the Bureau of Internal Revenue.

Dr. Pais plans to return to Holland on August 23rd via Royal Dutch Airlines. His work in this country was entirely concerned with the advancement of scholarship and he seems to me to be qualified in every way to receive clearance papers and sailing permit.

Yours sincerely,

Robert Oppenheimer

Copy to Dr. Pais
Miss Trinterud
Miss Blake

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

August 28, 1947

Officer in Charge
Immigration & Naturalization Service
U. S. Department of Justice
New York, N. Y.

Dear Sir:

In accordance with the regulations, I wish to report to you the departure of Dr. Abraham Pais from the Institute for Advanced Study on August 23, 1947. Dr. Pais is a permanent member of our Institute who is returning to Holland for a short visit. He plans to return some time in the next few months.

Dr. Pais originally came to the Institute for Advanced Study on September 26th, 1946 and entered the United States September 16, 1946, arriving at New York City aboard the "Edam". His visa was issued at Copenhagen on August 2, 1946, No. 219, expiring August 2, 1947.

Yours sincerely,

Katherine M. Russell
Secretary to the Director

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

December 6, 1946

Dr. Abraham Pais
Institute for Advanced Study
Princeton, New Jersey

Dear Dr. Pais:

It gives me great pleasure to offer you on the recommendation of the Faculty of the School of Mathematics a renewal of your membership in the Institute for the academic year 1947-1948, fixing your stipend for that year at $2,500. We all of us hope that it may fit in with your plans to spend another year here.

With kindest regards, I am

Yours sincerely,

Frank Aydelotte

FA:jsr

Copy to Miss Blake
Miss Miller

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

Institute for Advanced Study
Princeton, New Jersey

Date November 19, 1947

District Director
Immigration & Naturalization Service
Pennsylvania Building
42 South 15th Street
Philadelphia 2, Pa.

Dear Sir:

Re: Dr. Abraham Pais

In compliance with the regulations of Title 8 of the Code of Federal Regulations, Section 125.17, I send you herewith the information requested on the above-named individual who has arrived at the Institute for Advanced Study.

Date and place of birth May 19, 1918, Amsterdam, Holland

Princeton address 28 Hibben Road

Name and address of friend or relative in the United States:

Mr. Louis A. Roselaar, 551 Fifth Avenue, New York 17, N. Y.

Date of ~~arrival~~ RETURN to the Institute October 15, 1947

The above-named individual is engaged in full-time, advanced research in our School of Mathematics.

Yours sincerely,

Katherine Russell,
Secretary to the Director

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

Date Oct. 15/47

Full name Abraham Pais

College or university, degrees, year conferred

Date and place of birth

Citizenship Married or single

If foreign, under what kind of visa did you enter the United States? 4 d (Non-quota immigration)

Visa No. 52 Place and date of issue Kopenhagen, Sep. 18, 1947

When does it expire? —

When and where did you enter the United States? Oct. 7 1947 at New York by S.S. Lafayette Victory (Am. Export Lines).

Entry permit expires when?

Princeton home address Telephone

Permanent address

Person outside of Princeton to notify in case of emergency, with address including friend or relative in U.S.A.

Honors and societies

Positions you have held, giving dates, or are holding (including any graduate scholarships and fellowships)

Publications (Please give title and reference in full, with Vol. No., year, and page numbers.)

Field of work

(Use other side of sheet, if necessary.)

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

Arrival reported to Immigration and Naturalization Service, New York City, October 22, 1946.
Departure Reported 8-28-7

INSTITUTE FOR ADVANCED STUDY
Princeton, New Jersey

School of mathematics

Full name: Abraham Pais

Arrival date: Sept. 26. 1946.

Departure date:

Princeton address: %. Kahler. 148 Hodge Rd. Telephone: 1421.

Permanent address: %Mr. J. Pais. 139 Weesperzijde. Amsterdam C. Holland.

Date and place of birth: May 19, 1918 Amsterdam - Holland.

Married or single: Single

Citizenship: Dutch.

Number of children accompanying you: —

If foreign, under what kind of visa did you enter the United States?
Temporary visitor

Visa No: 219
Place and date of issue: Copenhagen, August 2. 1946.
Expiration date of visa: August 2. 1947

Date and port of entry to United States: Sept. 16. 1946. New York City

Name of ship: Edam
Name of airline: —
Expiration date of entry permit: Sept. 16. 1947.

Name and address of person, outside of Princeton, to be notified in case of emergency: Mr. Louis A. Roselaar, 551 Fifth Ave, N.Y. 17
Mr. J. Pais. 139 Weesperzijde. Amsterdam C. Holland.

Project or field of work at Institute:
Mathematical Physics.

Academic degrees: (Give name of college or university and year conferred)
Dr. phil. at University of Utrecht. 1941.

Fellowships: (Give full name, dates and place of study)
Institute of Adv. Study Princeton N.J. 1946-'47.

All positions held: (Please give dates and state if on leave of absence)
Assistant Utrecht University 1939 - 1941
Assistant Institute Theoretical Physics Copenhagen. Febr. 1946 - August. 1946.

Honors and Societies:

Publications: (Please give title and reference in full, with Vol. No. year and page numbers. Use other side of sheet.)

~~(Please fill out in duplicate and send copy~~ to Director's Office.)

Director's Office: Faculty Files: Box 25: Pais, Abraham, Permanent Member
from the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA

1. The energy momentum tensor in projective relativity theory. Physica, 8, 1137, 1941.
2. Meson fields in projective space. Physica, 9, 267, 1942.
3. On the electric charge current density of a nuclear system. Physica 9, 407, 1942.
4. On the photo disintegration of the deuteron. Proc. Copenhagen Academy, 20 No 17, 1943.
5. Life time of the neutral meson. Nature 156, 715, 1945.
6. On the theory of the electron and the nucleon. Physical Review 68, 227, 1945
7. Note on the theory of vector wave fields (together with L. J. F. Broer) Proc. Amsterdam Ac. 48, 190, 1946.
8. Scattering of High Energy Neutrons by Protons. Proc. Cambridge Soc. 42, 45, 1946.
9. On the self-energy of mesons. Physica 12, 81, 1946.

In the press.

10. On Proton-Neutron Scattering (together with L. Hulthén) Phys. Rev.
11. On The Theory of Elementary Particles. Verhandelingen Kon. Ned. Ac. v. Wetenschappen Amsterdam.
12. On the Possible Existence of Mass Spectra of Elementary Particles (together with C. Møller) Proc. Phys. Society London.