Jef flada bas os to a so net ni mulfai edi been tam 1

.eonavas ni wond bey
Dear Goldhaber,

I came back to-day from Oxford for the weekend and heard from Professor Hopwood over the telephone that he wishes that a letter should be sent/to immediately
"Nature "/about our heavy water experiments. I told him that as far as I know, you did some work about this which you intend to publish in the Cambridge Proco and that I should not like to rush in with a letter to " Nature ". He seemed to insist on the matter - all over the telephone - (a letter which he wrote to me on the subject did not reach me in Oxford) and it seemed advisable for me to go as far as I can go, considering that I am a guest of his department, in saying that I am not prepared to sign such a"letter" and I should appreciate it if my name were not mentioned in the "letter", if they decide to send one. I do not know what they will decide in the circumstances, in any case, I will not be a party to it. I shall see Hopwood tomorrow morning: perhaps he will see my point of view by then, www.xxxxxxxxxxxxxxxxxx I wonder.

I got the advice note for 1 gramme of indium and you will have the stuff at the latest on Wednesday. I hope you are able to look at it at once

I may need the indium in ten days or so and shall let you know in advance.

Dear Goldhaber

end not beeled mont val-od des Yours weekend and neard from Professor Hopwood over the tele-" Nature " about our neavy water experiments. I told which you intend to publish in the Cambridge Proce and " Nature ". He seemed to inglat on the matter - all over the telephone - (a letter which he wrote to me on "letter", if they decide to send one. I do not know what they will decide in the circumstances, in any case, Let 11 not be a party to it. I shall see Hopwood tomorrow morning; perhaps he will see my point of view by then, makakkambakkak I wonder.

I got the advice note for I gramme or indium and you will have the stuti at the latest on Wednesday. I nope you are able to look at it at once

Strand Palace Hotel, Strand, London W.G.S. 15th January, 1935.

Dear Colchaber,

I understand that Professor Hopwood, Mr. Banks and Mr. Chalmers sent a letter to 'Hature' about the disintegration of heavy vater by gamma rays of radium which will appear in this week's issue. I wish to inform you of the following:

Chalmers and I observed in October or November very weak offects with sources which were not free from Since I did not think it urgent to follow noutrons. up the matter I proposed to let it stand over and take it up again as soon as we have neutron free sources. When I heard through a visitor that you and Dr. Chadwick did similar work on heavy water there seemed to be not much point in going on with those experiments from the point of view of increasing our knowledge. However, I decided in the circumstances to carry on just the same thinking that if we have definite results in the normal course of our work at a time when you have not yet published, we can arrange that neither of us outs in in front of the other. It so happened that no neutron free sources were available until the time when I moved

which I have started being unfinished, it required some sort of arrengement as to which of us should carry it on if we did not choose to carry it on jointly.

As for as this work was concerned Professor Bopwood quite rightly assumed that I would not care to go on with it myself whereas I know that he had taken great interest in it from the beginning and co-operated with it all the time. Nevertheless I was surprised to hear that the experiments have been repeated with the old sources and that a letter was about to be sent to 'Hature' about them. I was asked whether I wanted to sign it or to be mentioned in it in some wher way. I answered that since you have completed your work much 'earlier and have chosen a slower way of publishing we must not cut in in front of you by a letter to 'Nature' and that for this reason I could not perticipate in any way in the matter and that if a letter is sent to 'Nature' it is sent without my consent. I told Professor Hopwood, Mr. Banks and Mr. Chalmers that in spite of the minor material importance of the issue I wished to take the strongest possible stand on it by writing you this letter of which I am letting them have copies.

Yours sincoroly,

46, Belvoir Rol Canbridge 18.3.32

Dear S.,

Somebody sent a copy of your neutron.

potents to the Lat. It was freely discussed at tea and, of comore, your intentions were minumoleration to be financially or otherwise. unsclentifically. I defended you by saying that is your apprinton it is better to direct technical appropriations of recience in a way what will me be useful to recience and not demanding to the public. There is no reason for you to vary about this.

h greet livry Jams.

Urbana

UNIVERSITY OF ILLINOIS
DEPARTMENT OF PHYSICS
URBANA 1 Ill.

Tel: 7-3461

September 23, 1938

Dr. L. Szilard King's Crown Hotel 420 West 116th Street New York City

Dear Szilard,

A member of our department, Dr. D.W. Kerst, has worked out mathematically a scheme of accelerating electrons by means of a changing magnetic field. This scheme appears to be similar to the one you told me about last year. Unfortunately, I do not know sufficient details of these schemes to know whether they are quite identical.

Dr. Kerst would be very glad to discuss with you this method and also to know whether you have already made any experimental progress. Should you be in Chicago we would be very glad if you could come over here or, if you have no time to do so, perhaps we could arrange to meet some time in Chicago.

Kindest regards,

M. Goldhaber

Jours Migoldbuber

MG** DMR

My private address is

Apt 14, 905 South First Pheet

Champaign, Ill.

(a timeit, of Urbane)

Tel: Champaign 9345

Was former The second part of construction is all the constructions of the construction of the co 100 100 1100 0141 100 1004 1100 01 01 100 1 0004 8040 000 1 0004 8040 DBGYMY TO S

MAGDALENE COLLEGE, Des failerd, We are seiling on Ved, June 21 on the Normandie and shall arrive in New York on No, June 26. We whell stay in New York for a few days. I have written to luck and lione I shall be able to get intoud with him before ore leave. Blackett hes been ill, and I am not certien whether I shall still me him. I thall not very und on Mranium goey body weres to be doing branium experiments here

but there is not any thing reconcile your and talker Will's observations on fast nentrons from U - firmon! I seems they were too fewers contributed non apprecises in the disintegration of a then in yum. The attenophere here is dis quietigly peaceful. one reuns to be confident that then will be crow wer, and if there is one - it will find England prepared After all, a continuous airis would be too much for one's Kind repards from hude and elso to I male W. yours Motolich

UNIVERSITY OF ILLINOIS DEPARTMENT OF PHYSICS URBANA

Amil 12, 1939

Dear failerd

Threnk you for the paper. It readed one pust before I was leaving for a trip to Madison, Wisconsin, together with Rabi.

newtrans with the He cleansher of the se newtrans had an every of ~ 5 Mes. as Roberts et al. estimate. This makes either Roberts' estimate of the cross section for production of the delayer newtron' eville much too large or your untiplication value too respect. Roberts' estimate things at seems on the face of it untiples high. Have you any idea how fast your mentions one i

of course, it is a good idea to keep realts secret until it is attled buther the U-bount is possible, in reasonable dimensions, or not. Let us hope not. But if yes, it is important to be a step ahead of the distator countries though? Hear it means only a step ahead. Have your thought of definite steps of brying off all U- supplies? A map of their distribution in the certh looks a

little discouraging, through it is only a qualita. two one, while I looked up . - I fear you will not be too incomful with the estempt to key results react. The first indications that plople in Berlin an doing miles work appear in Naturniss. in an article of Droste who will Reddeman is looking for father went cons When D+D wentrous are used on a. He wention this at the end of a letter. As soon as the first papers from fermeny appear, I am me, many of those who have agreed to reneg will see no fruther good in it, though they are right as for as the ultimate results are concerned, the immediate effect of scorry is voy inportant Have you any results on The ! Talking of 'nevets': Please keep this a react for the time being. I have become enpaged to truck Hearff, and working on the hyprothesis that there will be no var within the next few weeks (a very weak hypothesis, I fear I have next her an invitation from Loonis) to come here on a visitor's vine. When the is here we can get morned and these the con imajorate non-questa via Comada. This remy the only workable plan in a hurry. I have written to Fowler. Krind repards U.Soldlister

UNIVERSITY OF ILLINOIS DEPARTMENT OF PHYSICS URBANA

May 7, 1939

Ocar Biland,

the N+ year cross section. From long for.

preparing my trip to Engre. I had no owner to my calle yet, dire probably means that Trude has not yet applied forta visa. That a letter where she suggests waiting till frue when she can get her job, and there also her permit to stay in England, renewed. In this case it is grider that I go over, and certainly this should sinplify matters a lot. Lo I intend to reil Wednesder, May 24, 1 p.m on the Frences on New York Therday afternoon. I shall inform you of any drenger of plan immediatel. Those you received my reprints. Halle Frisch, Helber & Wood (Coperhage A cadeny or detailed title: Det Kgl. Danske Videnskabennes

Selskal. Maternatisk-fysiske Meddelelser. XV, 10).

give for the avanueties of N+ 45 > E+H (1.3 ± 0.3) × 10-24 cm. This way not be reff. cienty accurate for your compraisan. with U. Our cross section = 1 Boron cross rection ~ 1.66 × 10-24 (ve uned a lover B cron rection in our paper) is not better than a factor 2. It may therefore be con rection with that of B, either by uning law premme & F3 in the can duender (unixed with dry or, or A) or by having a dreunst produce you a their Uborate layer (or other the boran compound) which if really their, world give (a very good walne time) for 5 give (a very good walne time) believe. Did the Cd-older experiment go clight I Tollat lieve 'solved' every thing. We have not yet started our boren - iamis chamber exp. on anyther tricked the receipt Jams Malluder

Hotel King's Crown 420 West 116th Street New York City

April 18th, 1939

Dear Goldhaber:-

Congratulations!

I assume that you are going to the Washington meeting. If so, wouldn't you like to spend a few days in New York? I am sure you could help us with our experiments if you were here. So try to arrange matters so that you pass through New York either on your way to Washington or on your way back to Urbana.

Though I have written to Joliot early in February, as you will see from the enclosed letter, it was not possible to arrange a co-operation with Paris. Essentially for this reason Pegram has finally decided to let the papers appear, and you will see them in the next issue of Physical Review.

Let me know your plans and also if you succeeded in getting the visitors visa for T. S.

Yours.

(Leo Szilard)

P.S. Please could you send me as soon as possible 50 to 100 reprints of our joint indium paper?