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INTER OFFICE MEMORANDUM

This document contains 1 pages No. 3 of 30 copies

November 8, 1944

TO:

J. R. Oppenheimer

FROM:

H. A. Bethe

SUBJECT:

Assignment of Theoretical Groups to Service Work for

Experimental Groups

In a meeting of the group leaders of the groups T-1 to T-4, a plan was made for the assignment of theoretical groups to service work for experimental groups. The conclusions do not alter in any way the present relations with the experimental groups of the laboratory but merely state the status quo and are meant to facilitate the assignment of future work of this kind.

IMPLOSION PROBLEMS

Division X: All theoretical problems connected with the work of Division X will be handled by Peierls Group (T-1) as heretofore.

Division G: The theoretical analysis of the methods used by Division G for the observation of implosion will as much as possible be carried out by theoretical groups other than T-1 to avoid overloading of that group. As far as such analysis has been carried out in the past it will remain with the group which has done so in the past, namely, Group G-3 (magnetic method) theoretical work will be done by Group T-7 (Hirschfelder). Group G-6 (Ra-La) theoretical work by group T-3 (Welsskopf). In addition to this it was suggested that work for Group G-5 (Betatron) be done by Serber's group (T-2). On all other theoretical problems of Division G connected with implosion it is suggested that either Peterls or I be consulted whereupon the problem will be assigned to one of the theoretical groups. It is expected that a considerable fraction of the new work coming in will be carried by group T-4 (Feynman). FINAL DETERMINA

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All theoretical work concerning the gun assembly is handled by group T-2 (Serber).

NEUTRON EXPERIMENTS

Differential experiments (Division R): The analysis of differential experiments on cross sections, etc. will be carried out by group T-3 (Weisskopf) as in the past.

Integral experiments: Integral experiments with metal which are at present mostly carried out by Division R will be analysed primarily by group T-2 (Serber) with the help of group T-4 (Feynman). Integral experiments with hydride which will be carried out most by group G-1 will be analysed by group T-4

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CLASSIFICATION CANCELLED H. A. Bethe PER DUC REVIEW JAN. 1973

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L. M. Redini