

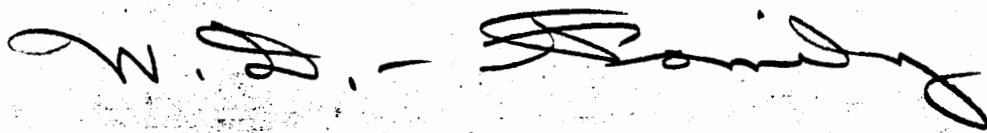
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Symbol: TM-53

Group Ref: TMG-M24

This document consists of 5 pages
[REDACTED]

April 10, 1952

MINUTES OF THE TWENTY-FOURTH MEETING OF THE THEORETICAL MEGATON GROUP

9 April 1952

1. The twenty-fourth meeting of the TMG convened at 9:00 AM Wednesday, 9 April 1952, in the W-Division Conference Room. Those present were

G. Bell
A. A. Broyles
J. J. Devaney
C. Evans
F. Evans
B. E. Freeman
R. W. Goranson
G. M. Grover
M. G. Holloway

R. M. Landshoff
J. C. Mark, Chairman
H. L. Mayer
J. R. Pasta
J. C. Potts (part time)
F. Reines
M. Rosenbluth
P. R. Stein
J. von Neumann

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The complete implosion
calculation is being set up for Maniac (LASL) and SEAC (Washington)
operation.

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3. Radiation Similarity Solutions (Rosenbluth, Barfield)

The similarity solutions reported previously (section 5.1 of 20th
minutes with graphs in 21st minutes) were rerun with the new equation of
state of Reitz for this region and the change in opacity values as reported
in the 23rd minutes.

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in μ sec and θ in kev.

Here t is

The current optimistic guess that the new opacity values will result
in a reduction of the flux by a factor of about two is therefore erroneous.

4. Radiation Flow down the Channel

4.1) Broyles-Freeman Calculations

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4.2) de Hoffmann, M. Goldstein and Stein Calculations

Stein summarized the results of four problems. These are continuations of the calculations discussed in the 21st-23rd minutes.

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Graphs and tables showing the results of these problems are given in the accompanying TM-54 Report.

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R.W. Goranson

R. W. Goranson

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