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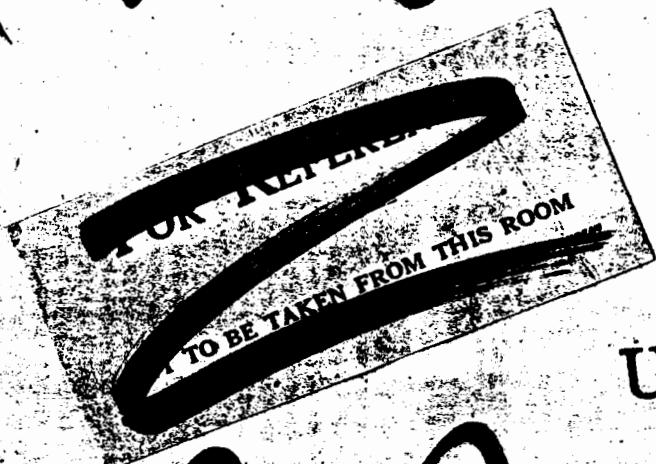
Tm G-m 38

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Symbol: TM-77

Group Ref: TMG-M38

This document consists of 10 pages
4

September 22, 1952

MINUTES OF THE THIRTY-EIGHTH MEETING OF THE THEORETICAL MEGATON GROUP

September 17, 1952

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1. The thirty-eighth meeting of the TMG convened at 9:00 AM on Wednesday, September 17, 1952, in the W-Division Conference Room. Those present were:

J. C. Allred
W. Aron
G. I. Bell
W. Bouricius
W. C. Bright
A. A. Broyles
D. S. Carter
E. D. Cashwell
W. Clendenin
E. Fermi
B. E. Freeman
E. Frieman
R. L. Garwin
W. Goad
G. M. Grover
R. Haefner
D. B. Hall
A. C. Haussmann
J. Heller
F. C. Hoyt

E. J. Zadina

R. Landshoff
J. C. Mark, Chairman
H. L. Mayer
J. McIntosh
J. Pasta
R. Pennington
J. C. Potts
O. W. Rechard
F. Reines
R. D. Richtmyer
P. R. Stein
D. St. John
J. Toll
J. L. Tuck
A. Turkevich
M. C. Walske
B. E. Watt
J. A. Wheeler
L. Willets
R. Williamson

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW	
1ST REVIEW DATE: 8-15-97	
AUTHORITY: DAOC DAOC READ	
NAME: <u>John</u>	
2ND REVIEW DATE: 9/3/97	
AUTHORITY: DOO	
NAME: <u>John</u>	
1. DETERMINATION [CIRCLE NUMBER(S)]	2. CLASSIFICATION RETAINED
2	3. CLASSIFICATION CHANGED TO:
4. COORDINATE WITH:	
5. CLASSIFICATION CANCELLED	
6. CLASSIFIED INFO BRACKETED	
7. OTHER (SPECIFY):	

Topics

2. Corrections to previous minutes.
3. Review of Upshot planning.
4. Matterhorn report.

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2. Corrections

The numbers on the Θ scale of Fig. 3 in TMG-M32 should be multiplied by 2.

3. Review of Upshot Planning

This was mostly old material presented for the benefit of the Matterhorn contingent. The "free ends" are thought of as subdivided into three sections of different thickness such as 3/4", 1/2" and the third one possibly an aluminum section.

4. Matterhorn Report

4.1 Wheeler gave an over-all summary of the work containing the following conclusions.

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B.

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The nomenclature is as follows.

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b(3)

4.2 Chief Problems (reported by W. Aron)

Chief 1 was partially reported before (TMG-M32; 4). []

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b(3)

Partial results are presented in Figs. 1 to 4.

There is no Chief 2.

DOE
b(3)

This resulted in the head of the radiation wave moving much faster than the maximum of the temperature pulling down the reaction rates.

4.3 Swordtail (reported by J. Toll)

A preliminary report was given in TMG-M32; 3. A complete report is being prepared. []

DOE
b(3)

The curve labeled maximum in Fig. 5 refers to the point where the temperature has its maximum. []

DOE
b(3)

4.4 Mixing Theory of Layzer (reported by E. Frieman)

A velocity potential to satisfy Bernoulli's equation is assumed of the form

$$\phi = e^{-ky} \cos kx F(t)$$

where $F(t)$ is determined to go over into the low amplitude solution for small t and into the steady state solution for large t . Ralph Pennington reported on an unperbound calculation. []

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4.5 Zephyr (reported by J. Toll)

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b(3)

4.6 Gambits (reported by L. Wilets)

DOE
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4.7 Black Mollie (reported by Clendenin

DOE
b(3)

Rolf Landshoff
Rolf Landshoff

Distribution next page.

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Distribution:

1A - G. Bell
2A - H. A. Bethe
3A - W. Bouricius
4A - N. E. Bradbury
5A - S. W. Burriss
6A - J. Calkin
7A - B. G. Carlson
8A - E. D. Cashwell
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FIG. 1

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FIG. 3

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FIG. 5

-1-

FEUFFEL & ESSER CO.

No. 359-11. 10 x 10 to the half inch, 5th lines accented.

Engraving, 7 x 10 in.

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FIG. 7

KRUFFEL & ESSER CO.

No. 35941. 10½ x 10½ the half in. 5th lines accented.
Ink drawing. 7 x 10 in.
Made in U.S.A.

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