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December 2, 1949

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SUMMARY OF FAST FISSION CROSS SECTIONS



By

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Memo from  
Per Fred Lund to Krohn ~~7-17-80~~ Date: 7-17-80

By Markus Lujan CIC-14 Date: 8-6-96

Warren Kyer

Physics Fission

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$\sigma_{02}$  The 14-Mev values are based on  $\sigma_{28}$  from LA-719.

References: LA-39 Taschek  
LA-520 Williams  
LA-719 Nyer  
LAMS-774 Rosen, A. Phillips, Taschek  
LAMS-776 Jarvis  
LAMS-938 Nyer

$\sigma_{23}$  Data for energies up to 6 Mev are from LA-520,  
which included data from LA-188. The 14 Mev  
point is based on  $\sigma_{28}$  from LA-719.

References: LA-188 Klema  
LA-520 Williams  
LAMS-983 Nyer

$\sigma_{25}$  Data for energies below 14 Mev are from LA-520  
which included data from LA-128, LA-150, LA-445,  
LA-447, BM-493. The 14 Mev points are based on  
 $\sigma_{28}$  from LA-719.

References: LA-128 Hall, Koontz and Rossi  
LA-150 Williams  
LA-445 Taschek and Turner  
LA-447 Bailey  
LA-520 Williams  
LA-719 Nyer  
CF-636 Heydenberg and Meyer  
BM-493 Bretscher  
LAMS-938 Nyer

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$\sigma_{28}$

The disagreement between LA-719 and LAMS-777 on the value of  $\sigma_{28}$  at 14 Mev has been attributed to the presence of scattering material around the neutron source in W Building. It is believed that the LAMS-777 values from 13.5 to 18.0 Mev are slightly low.

References: LA-163  $\Sigma$  Group  
LA-520 Williams  
LA-710 Curtis, Fowler and Rosen  
LA-719 Nyer  
LAMS-396 Bretscher  
LAMS-777 Jarvis  
BM-493 Bretscher  
CF-636 Heydenberg and Meyer  
LA-755 Cox, Fowler, Kutz, Stovall

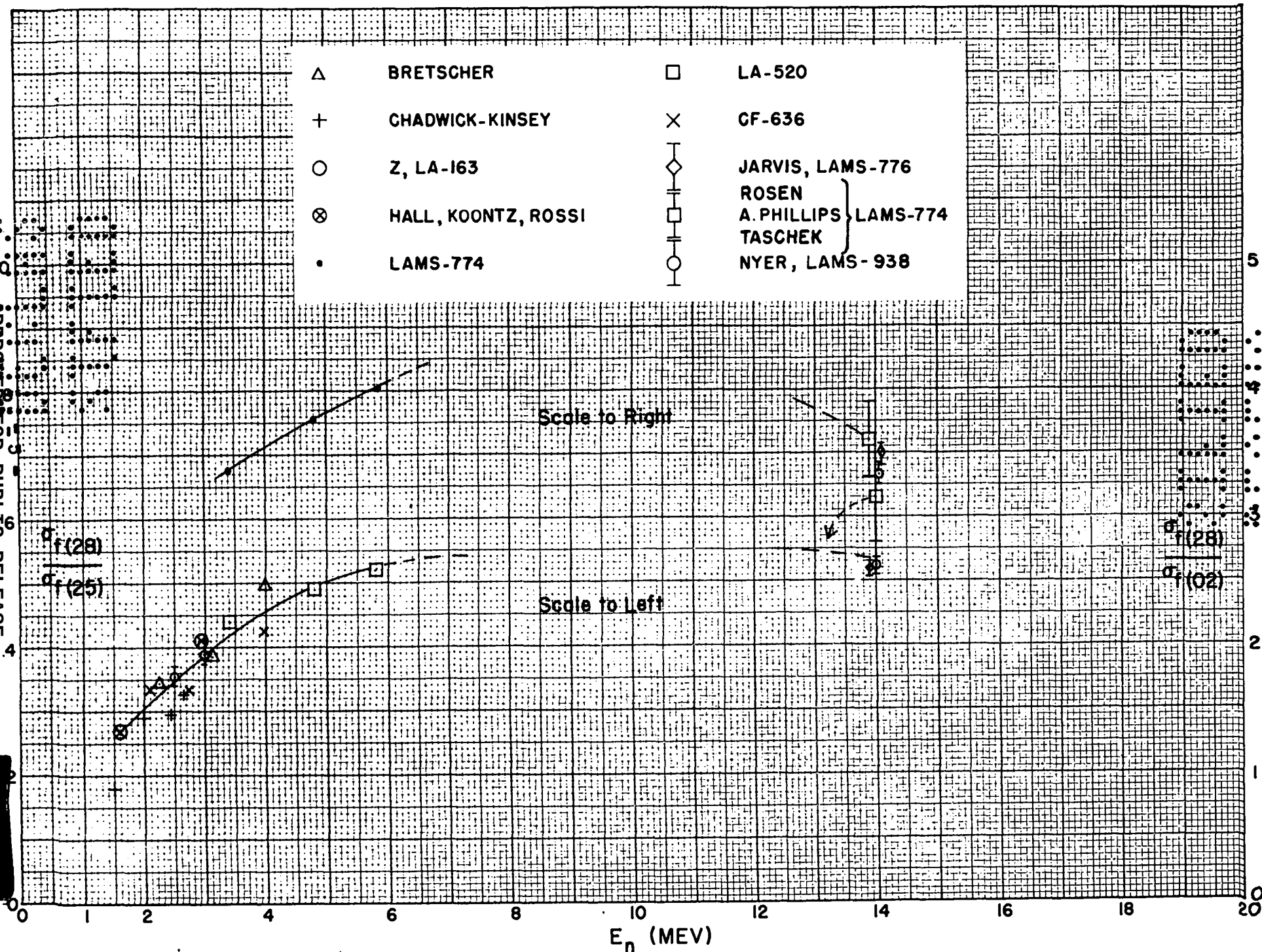
$\sigma_{49}$

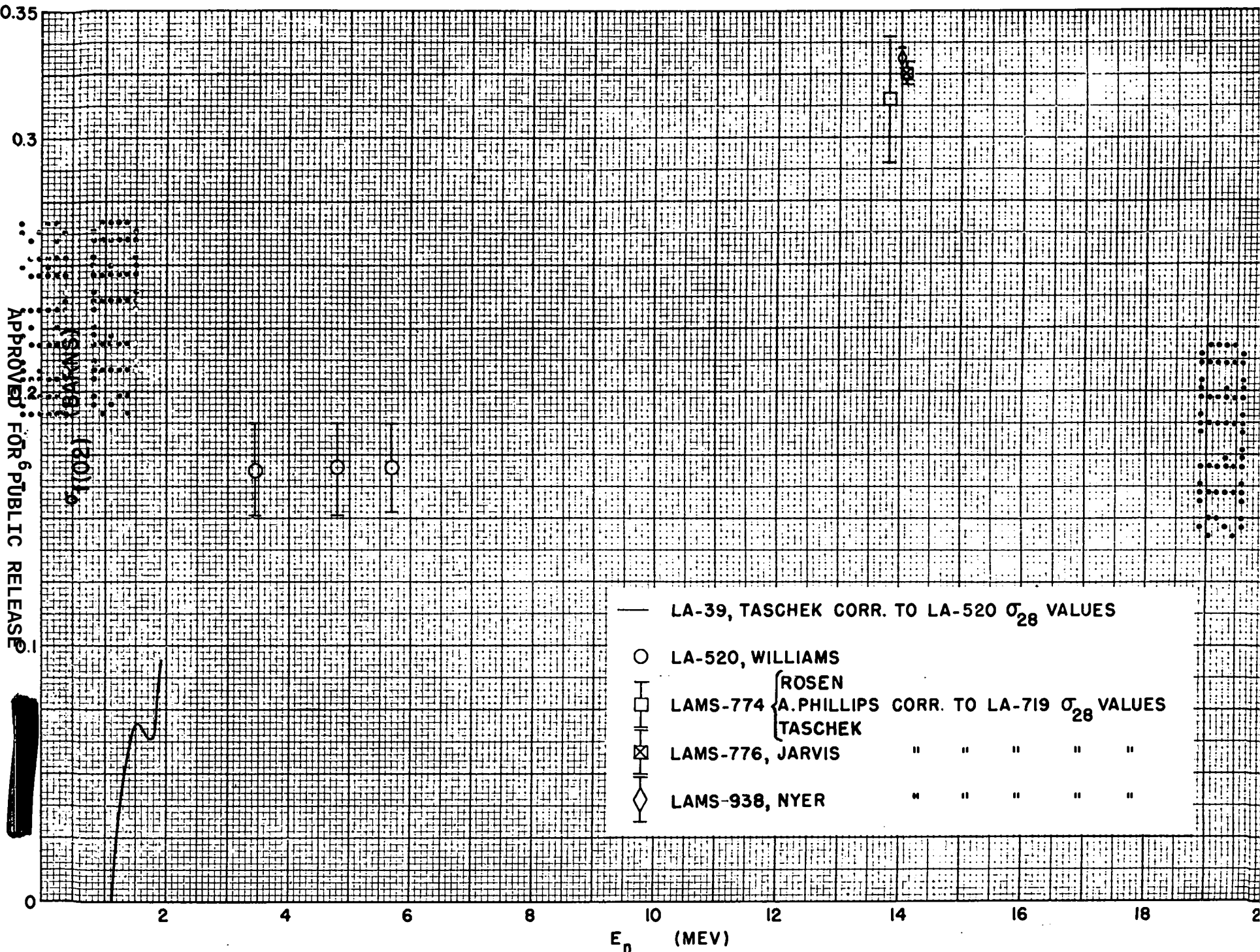
The 14 Mev value is based on  $\sigma_{28}$  from LA-719.

References: LA-150 Williams  
LA-520 Williams  
LAMS-396 Bretscher  
LAMS-938 Nyer  
CF-626 Heydenberg and Meyer

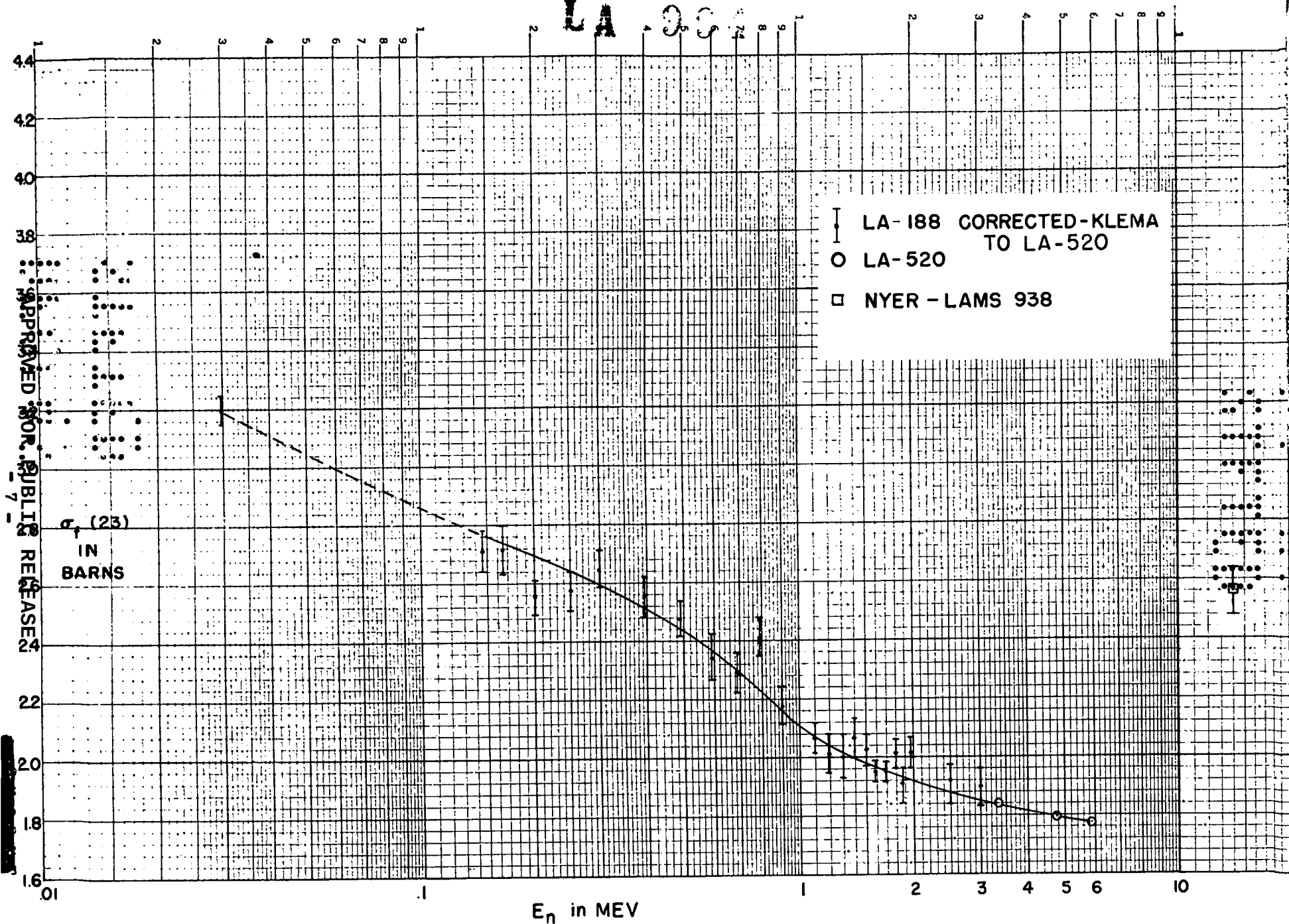
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- |           |                     |            |                        |
|-----------|---------------------|------------|------------------------|
| $\Delta$  | BRETSCHER           | $\square$  | LA-520                 |
| +         | CHADWICK-KINSEY     | $\times$   | CF-636                 |
| $\circ$   | Z, LA-163           | $\diamond$ | JARVIS, LAMS-776       |
| $\otimes$ | HALL, KOONTZ, ROSSI | $\square$  | ROSEN                  |
| $\bullet$ | LAMS-774            | $\square$  | A. PHILLIPS } LAMS-774 |
|           |                     | $\square$  | TASCHEK                |
|           |                     | $\circ$    | NYER, LAMS-938         |



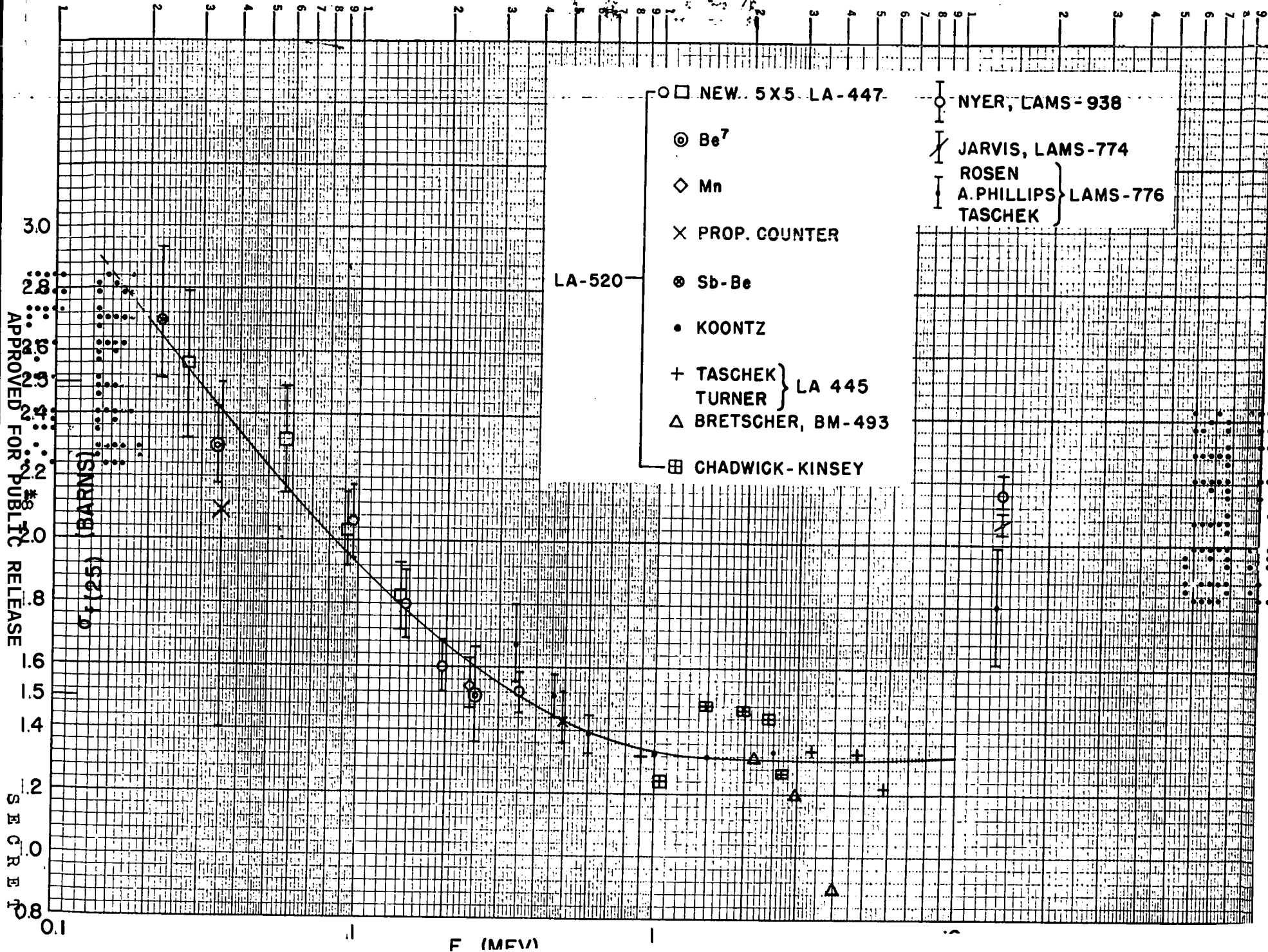


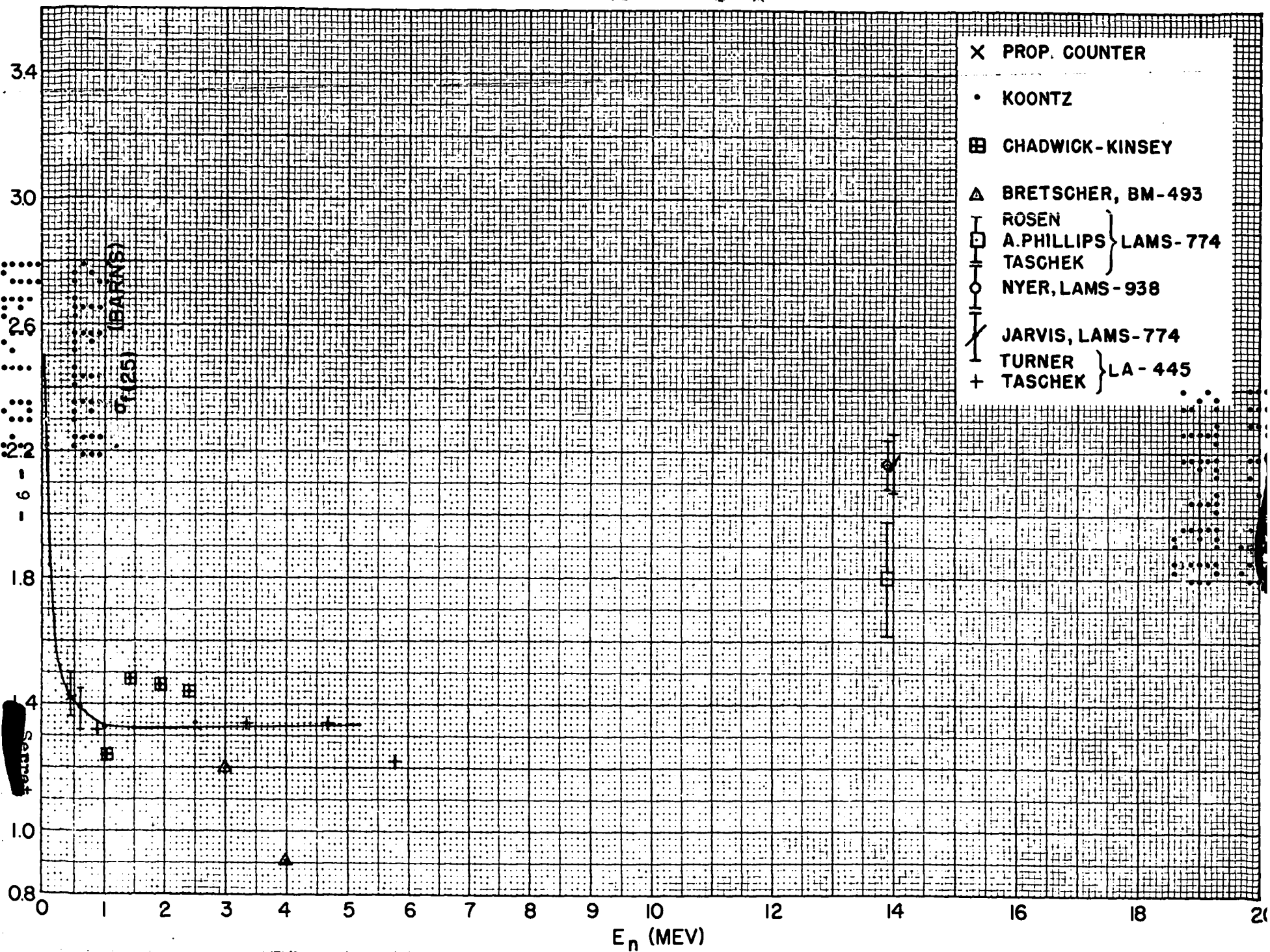
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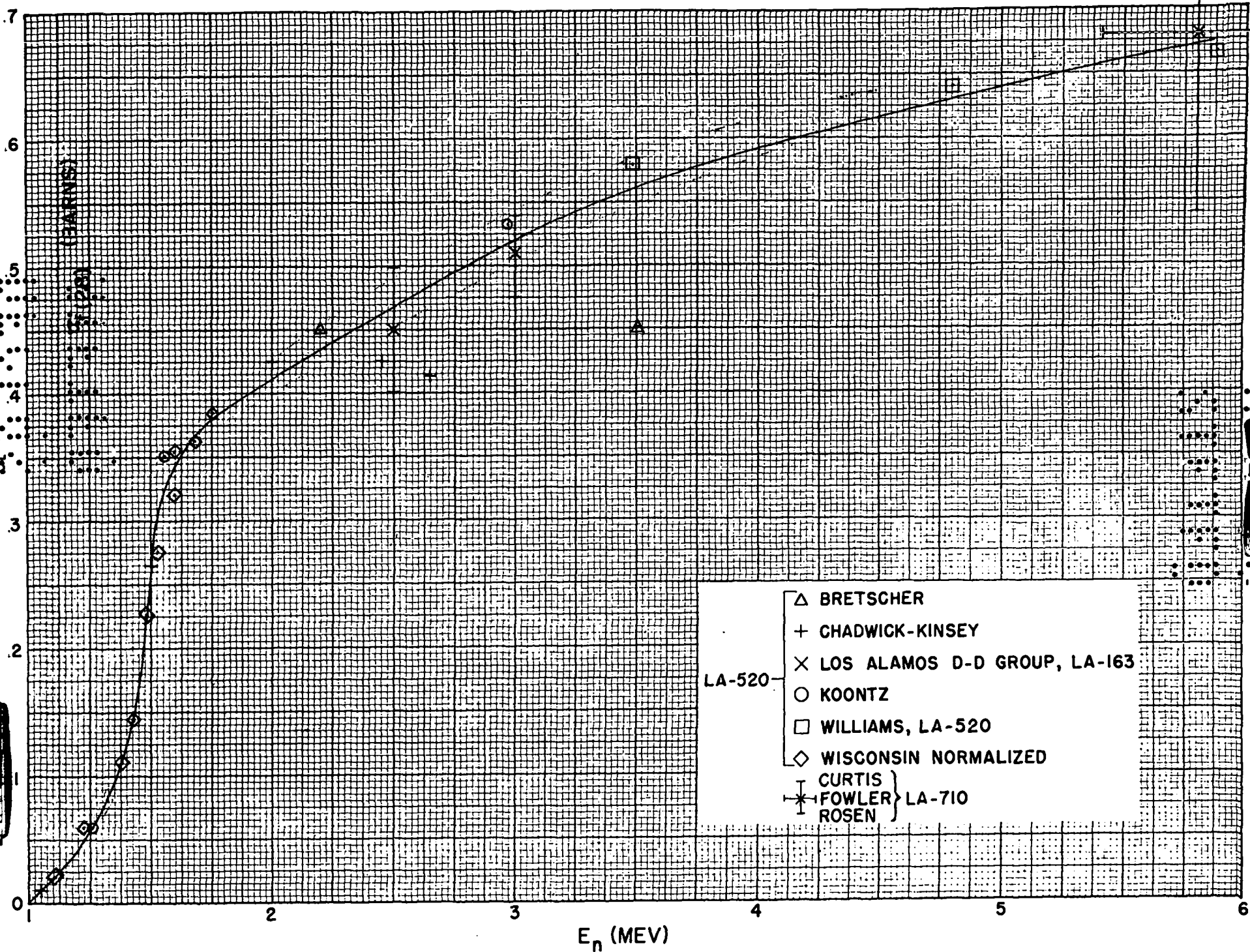


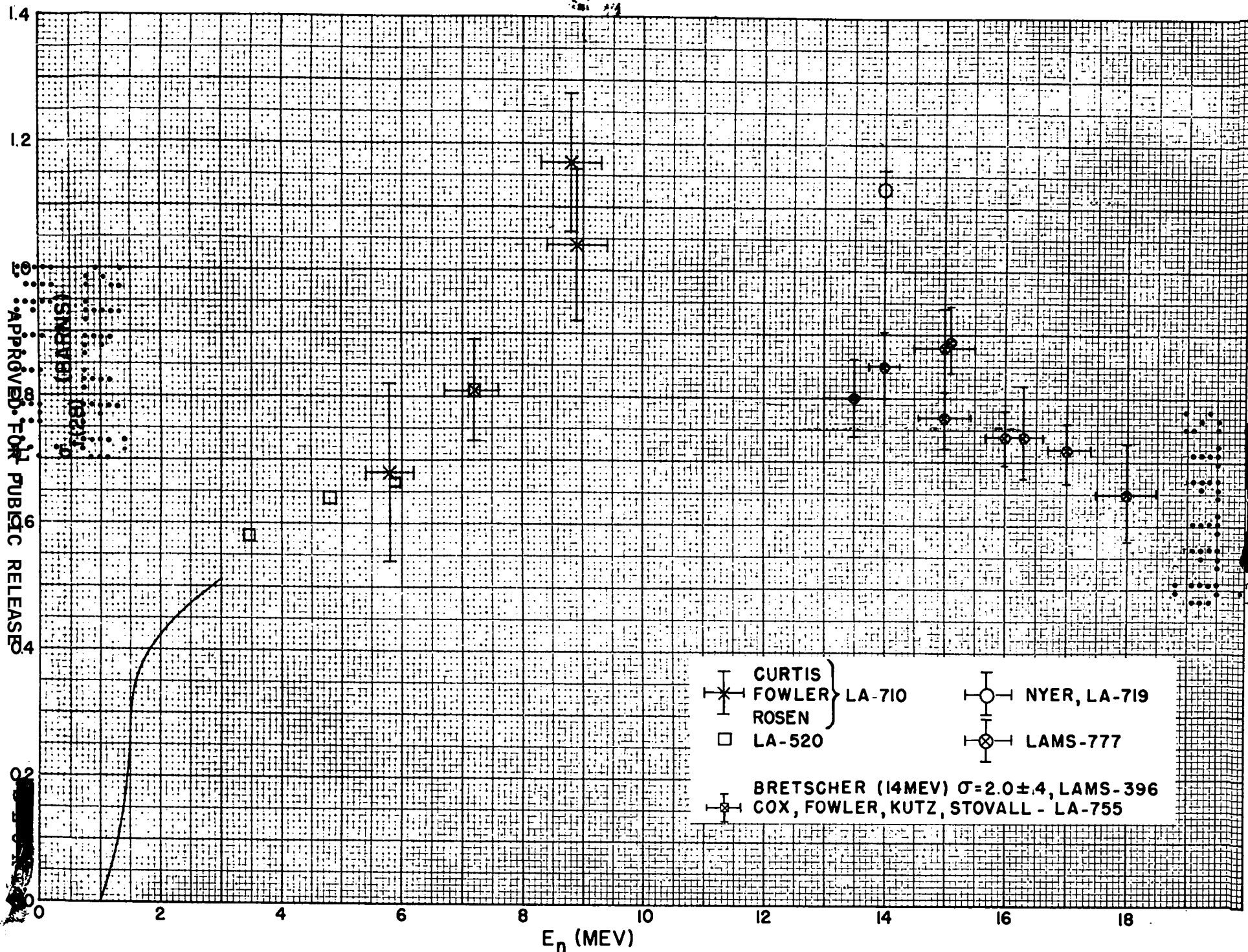
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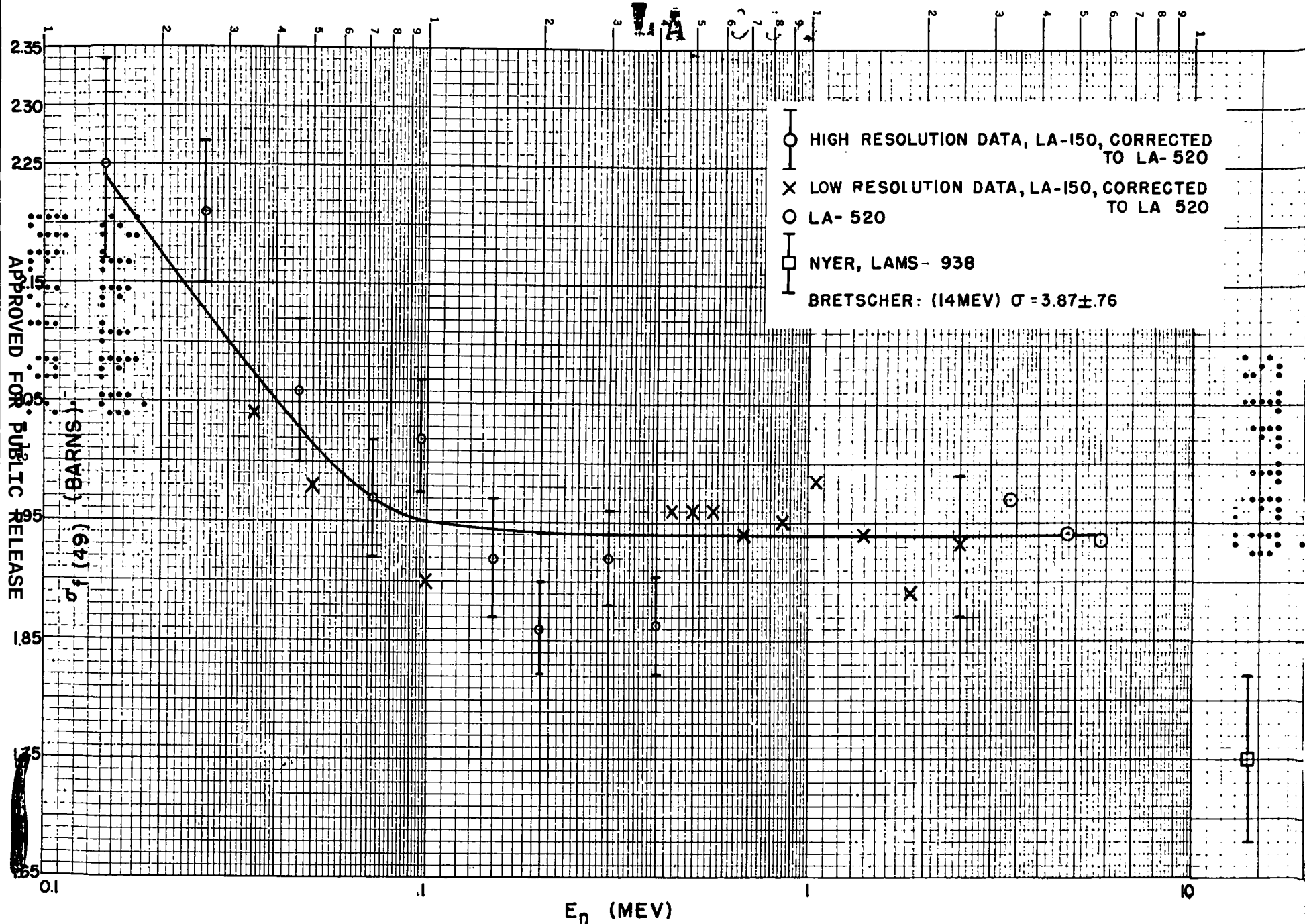






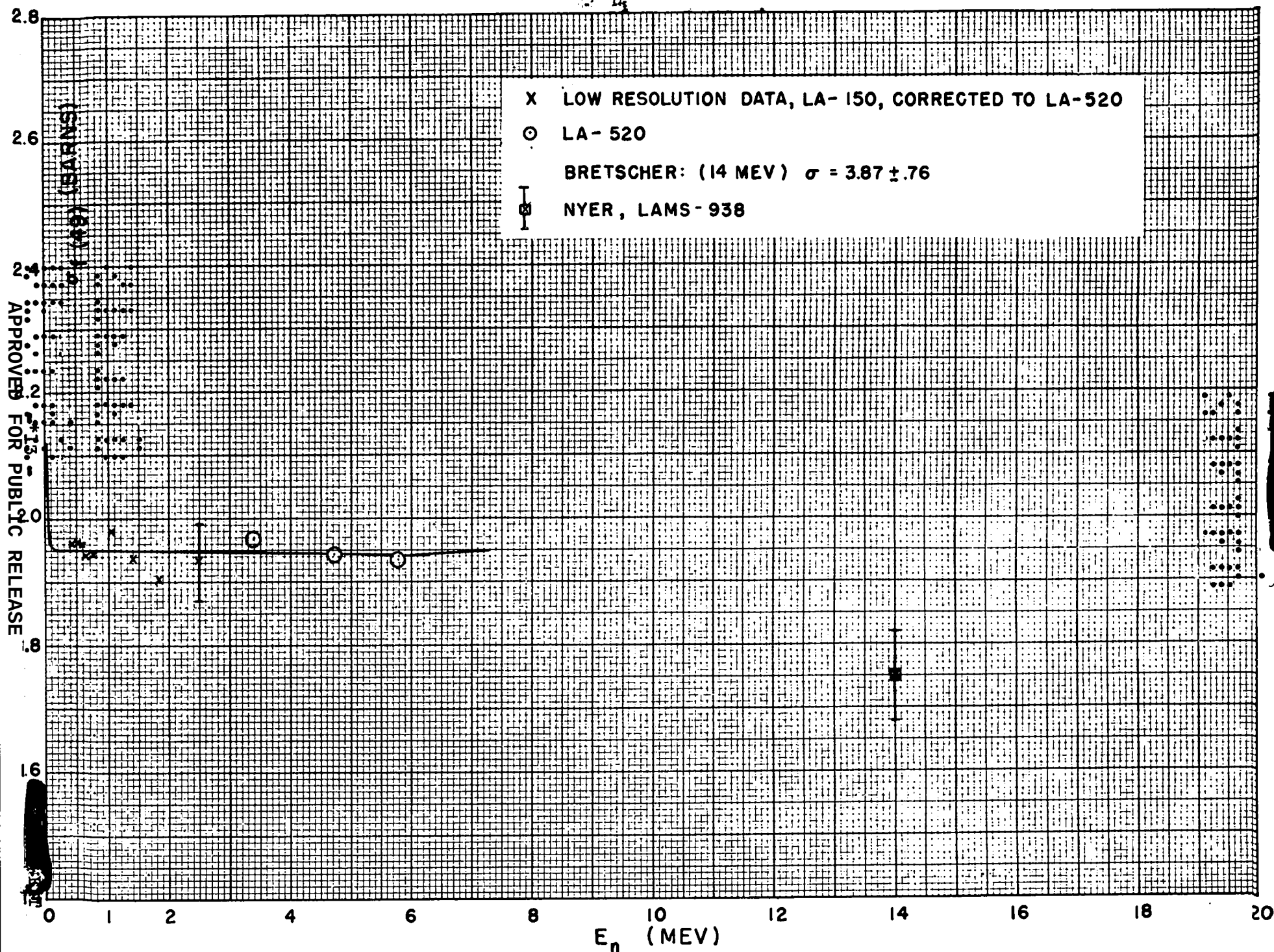




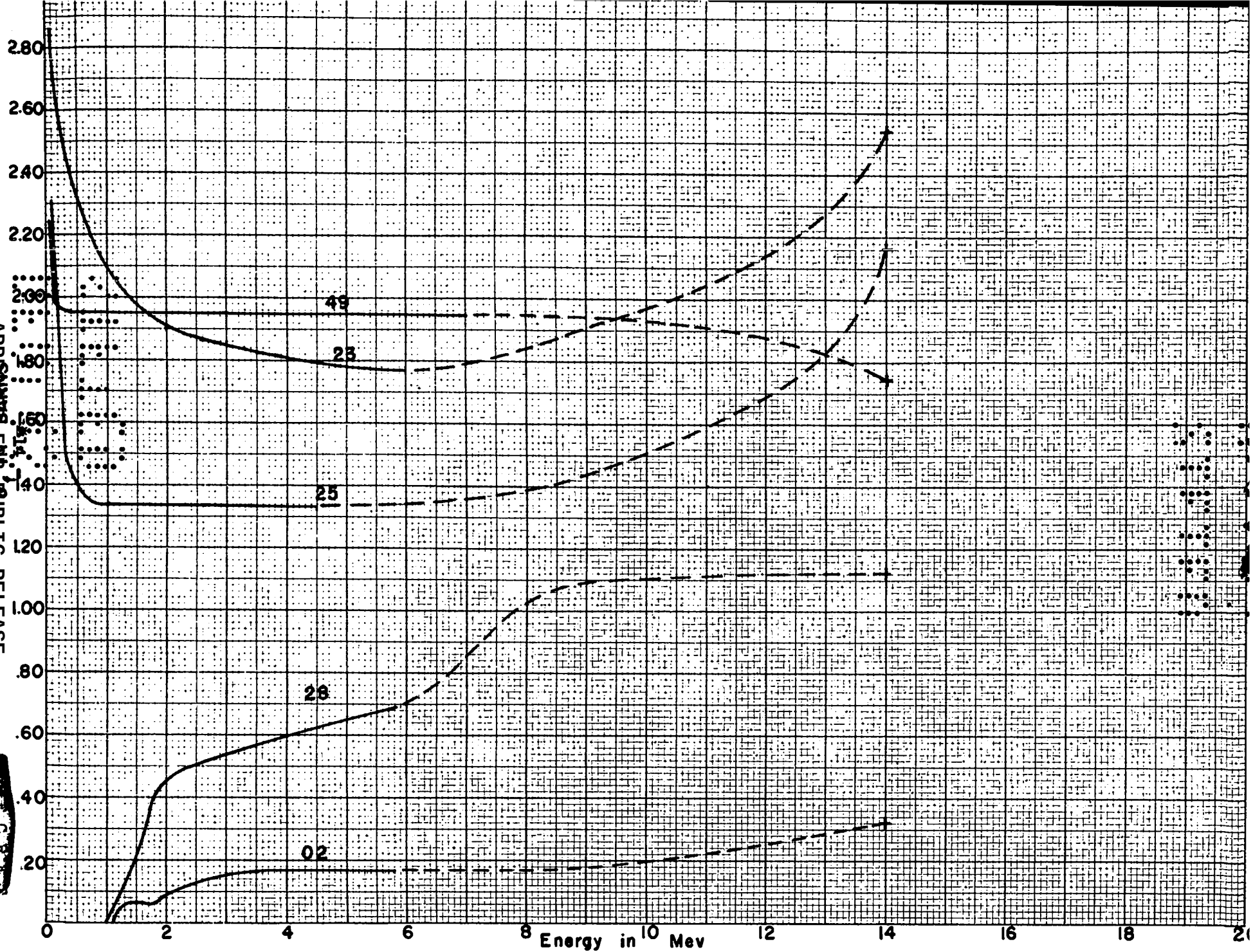


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