

Program EVALPLOT
(Version 2021-1)

by

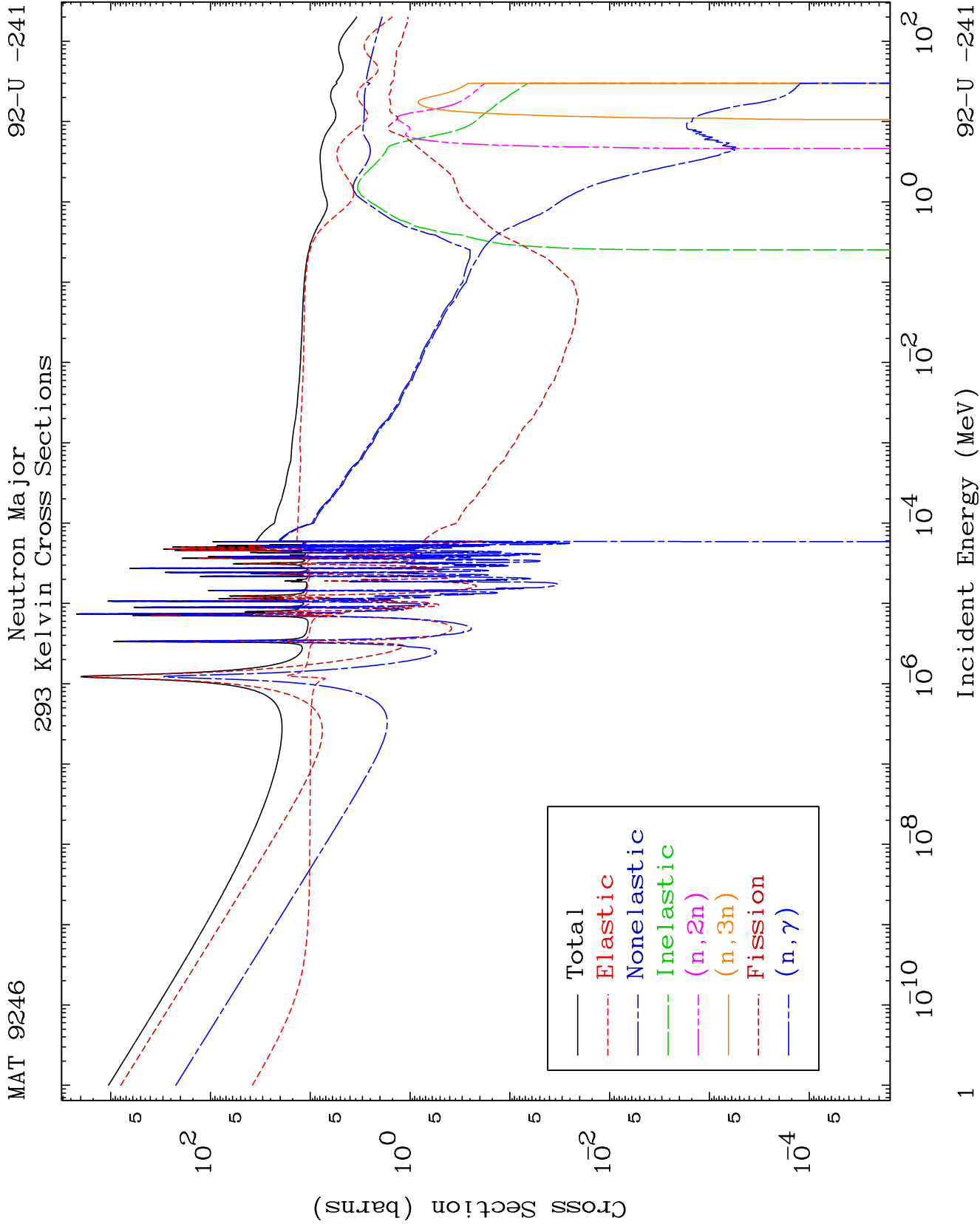
Dermott E. Cullen
(Present Contact Information)

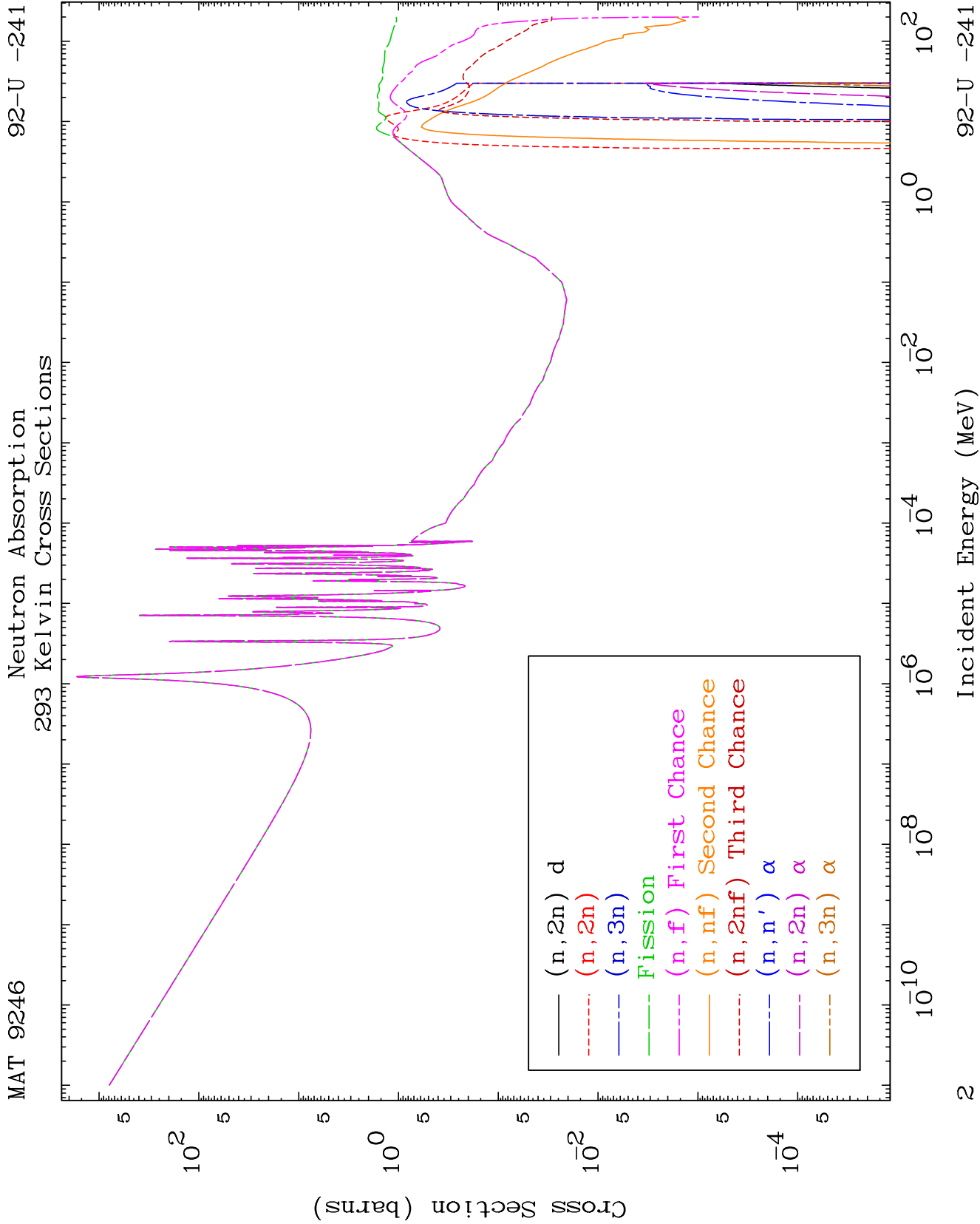
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.

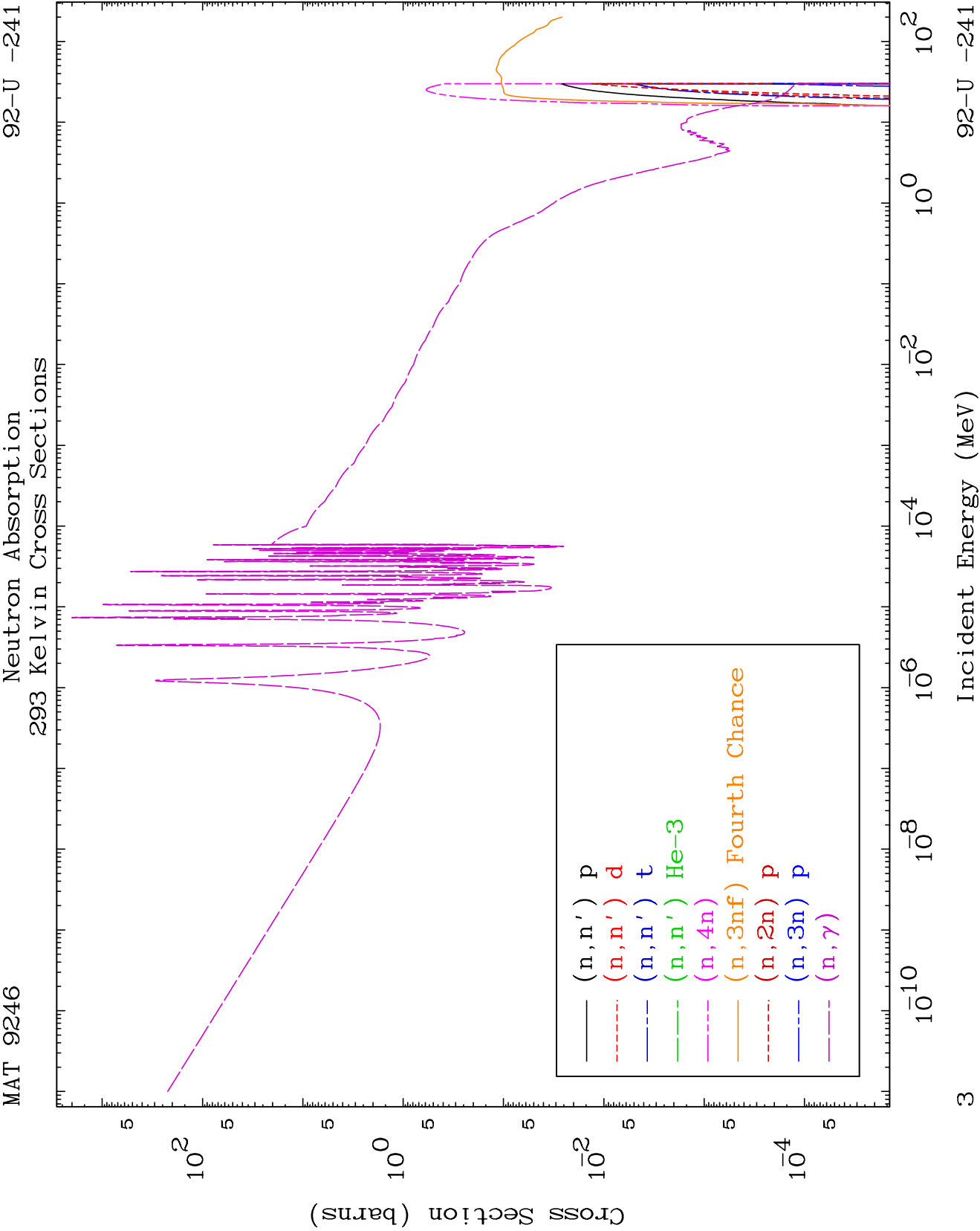
Tele: 925-443-1911

E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start



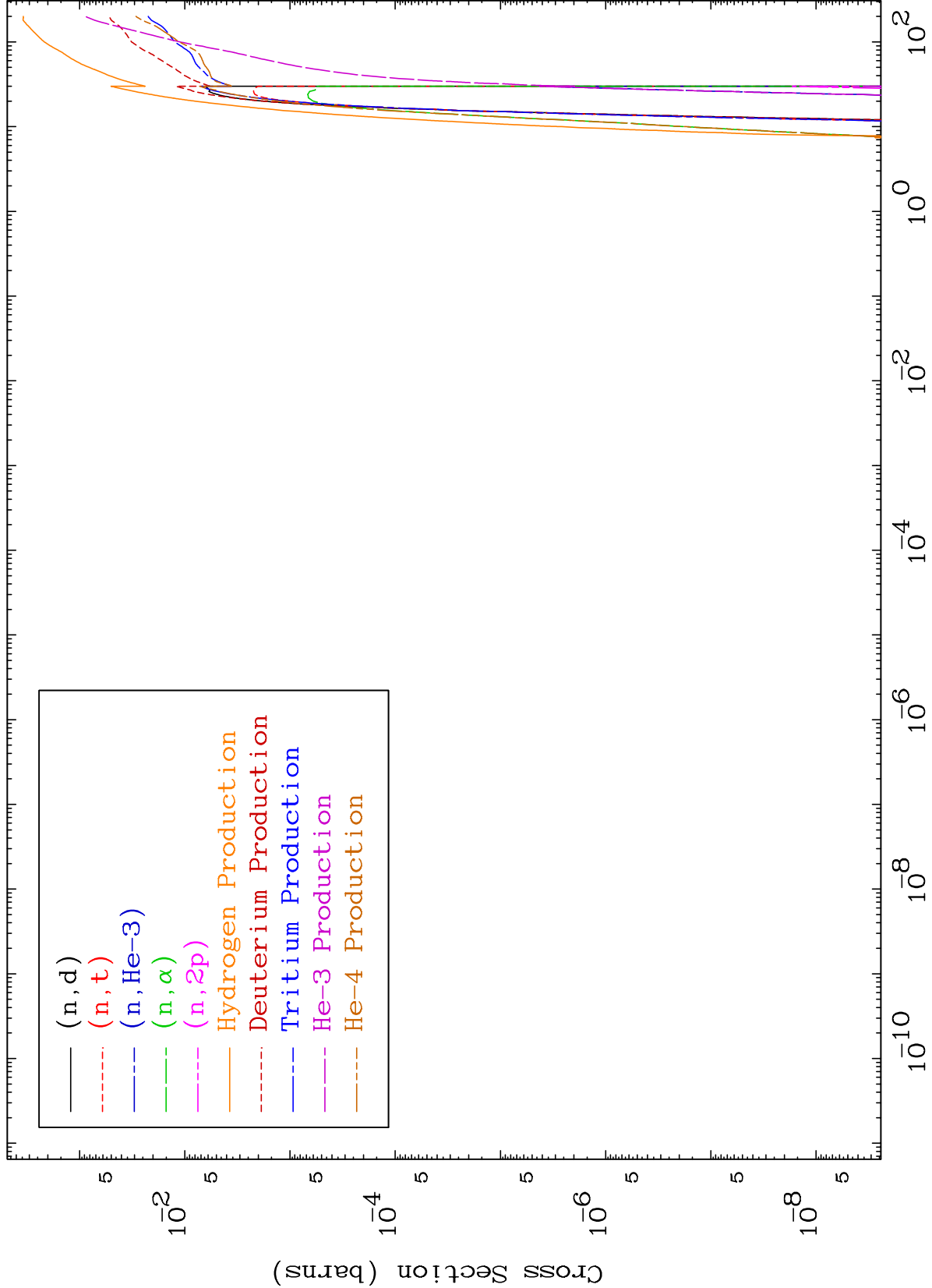




MAT 9246

Neutron Absorption
293 Kelvin Cross Sections

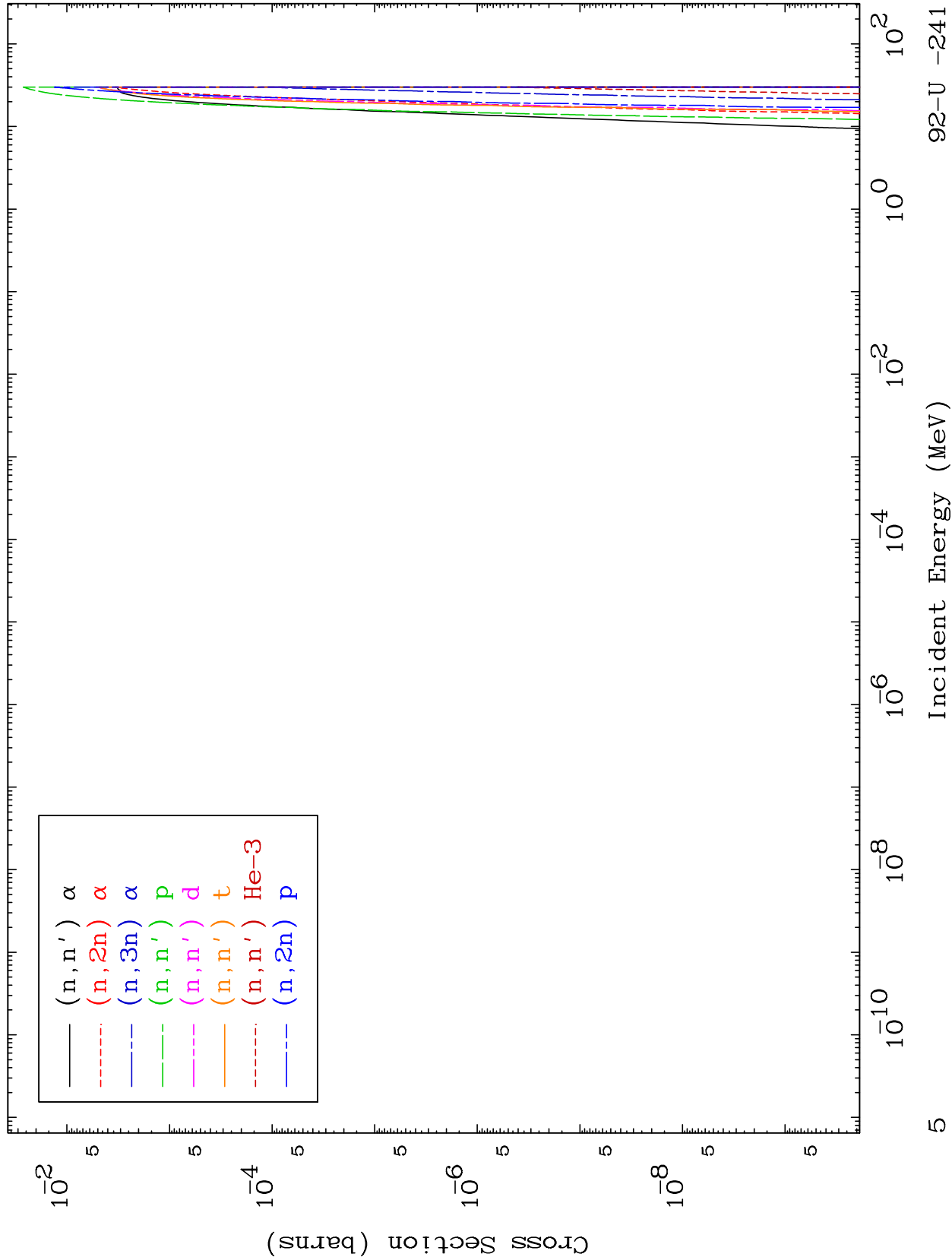
92-U -241

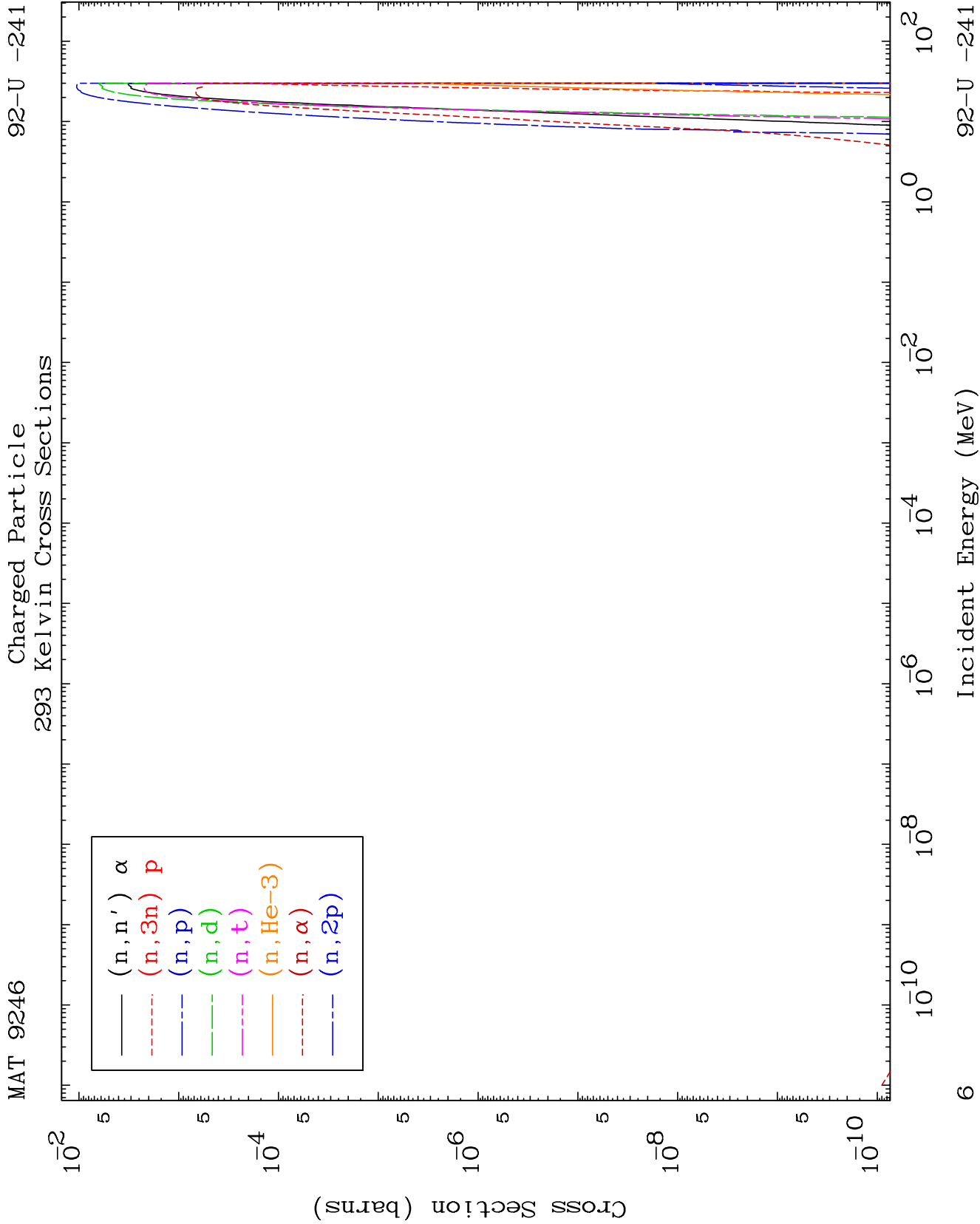


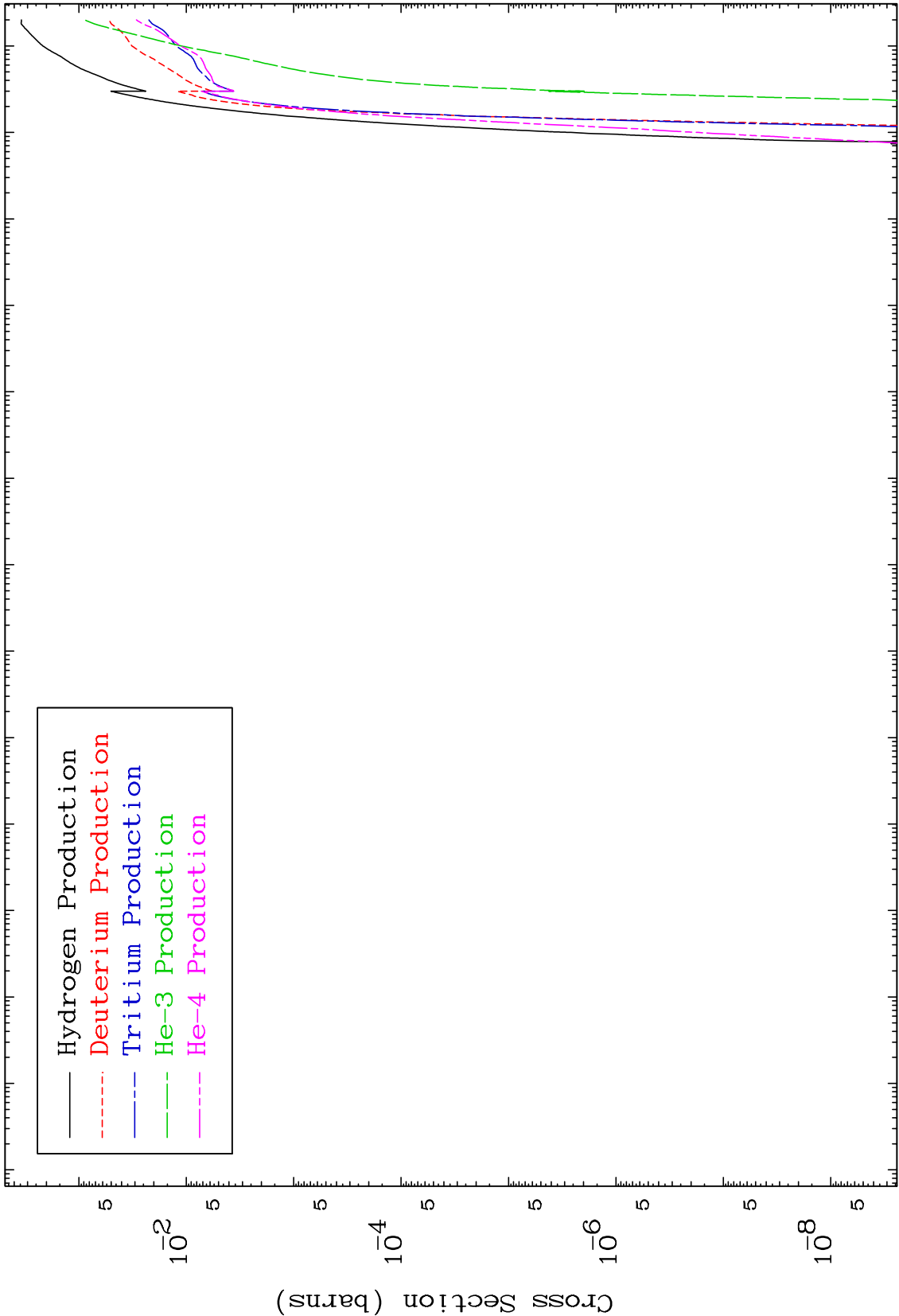
MAT 9246

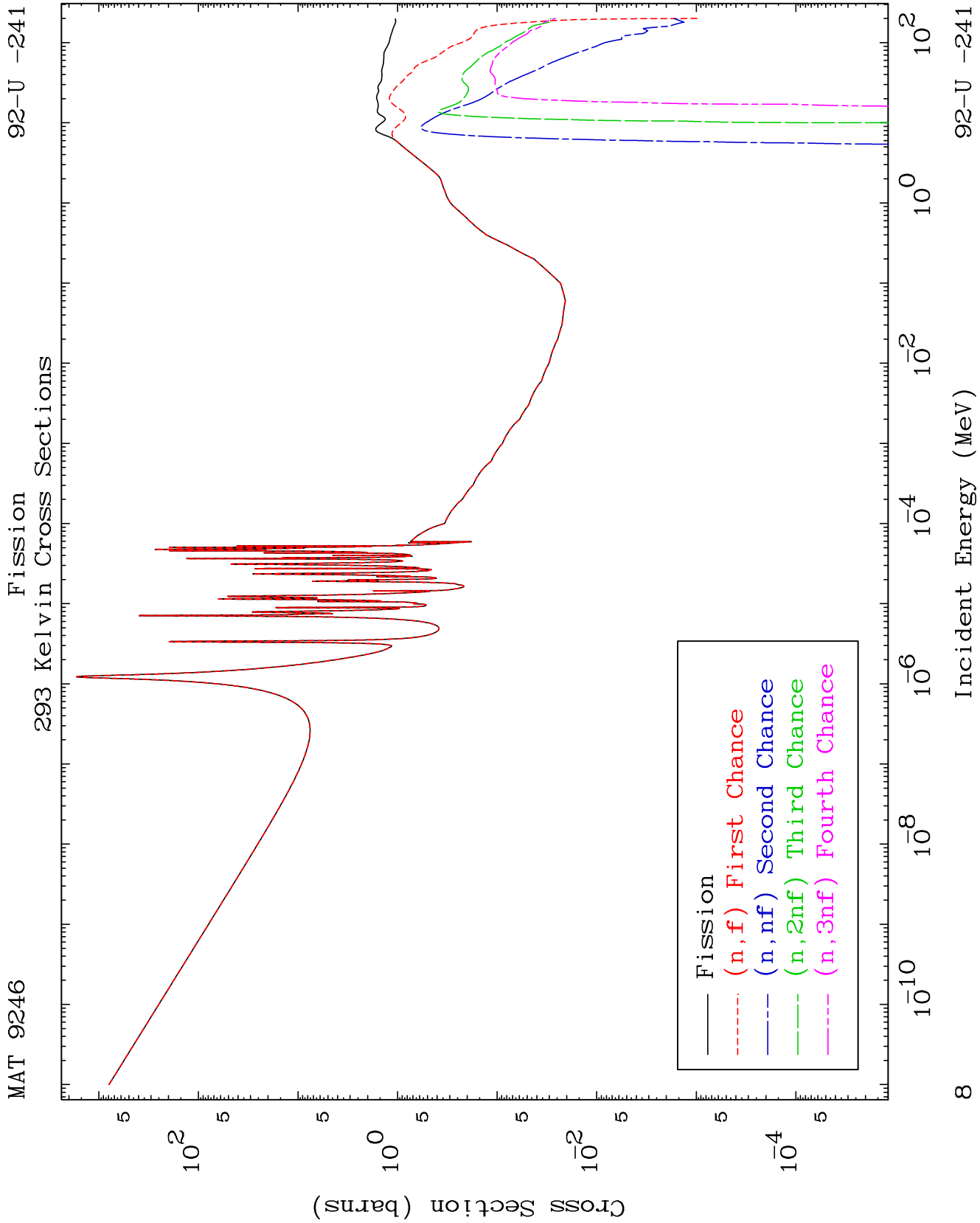
Charged Particle
293 Kelvin Cross Sections

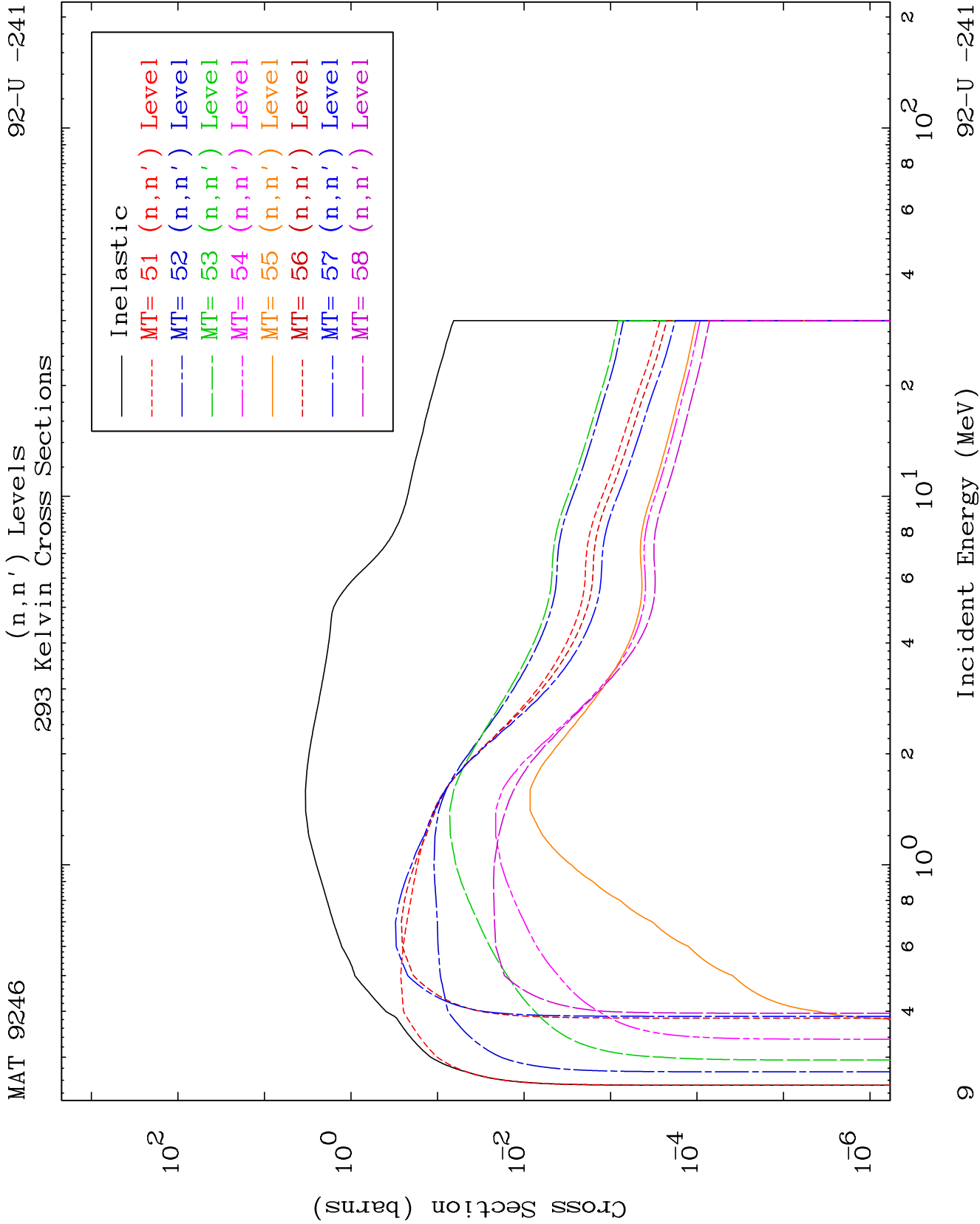
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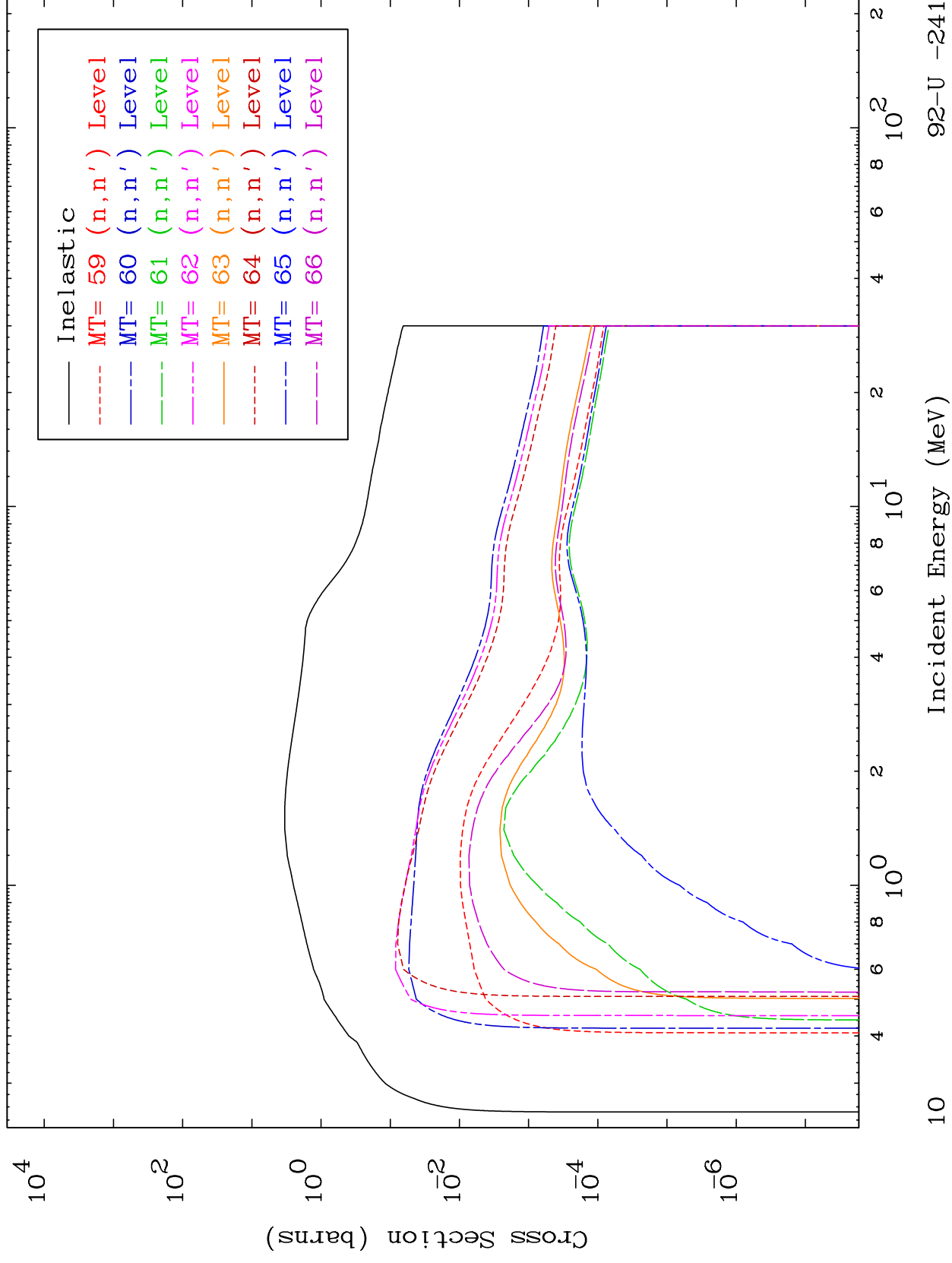


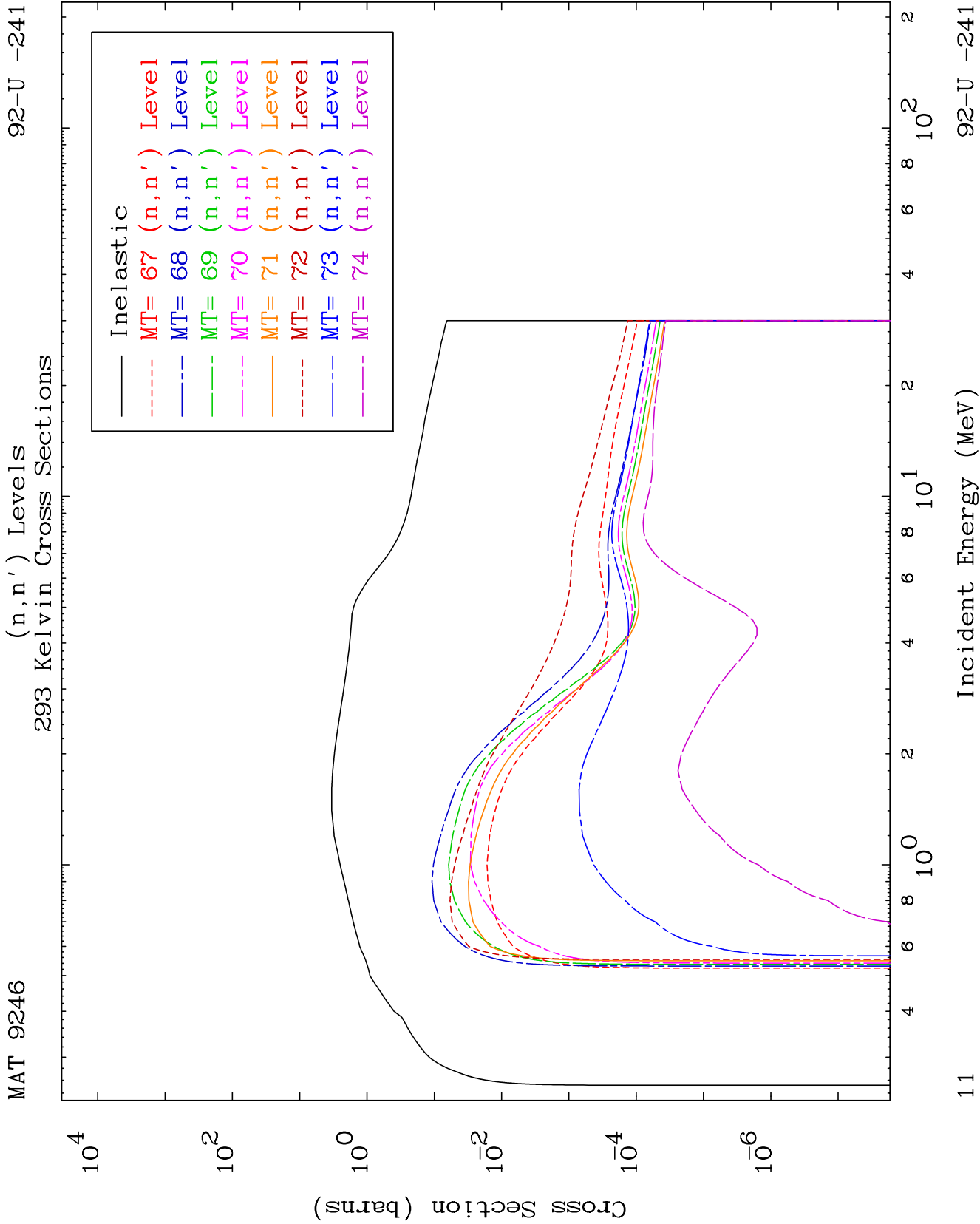
MAT 9246

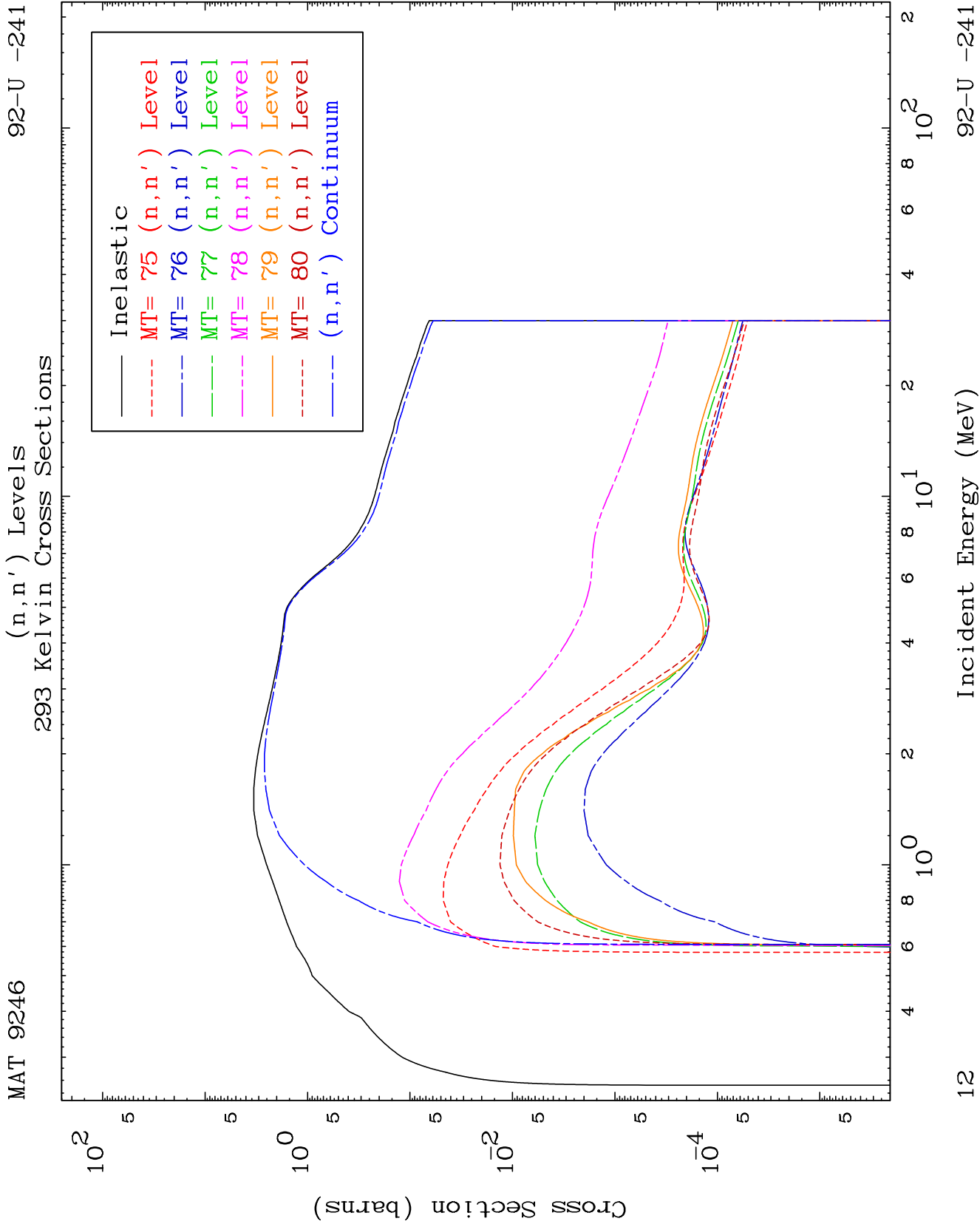
(n, n') Levels

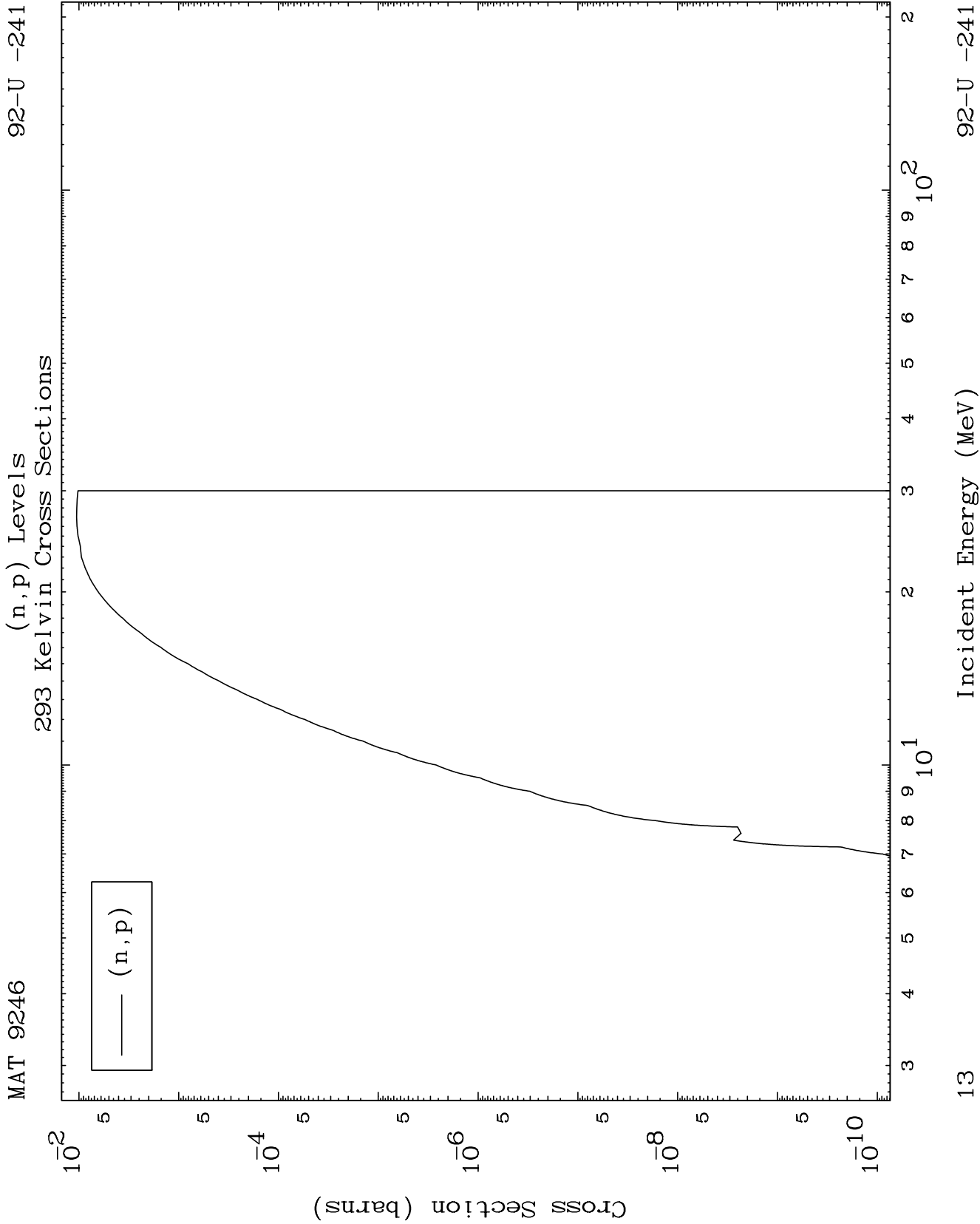
(n, n') Levels
293 Kelvin Cross Sections

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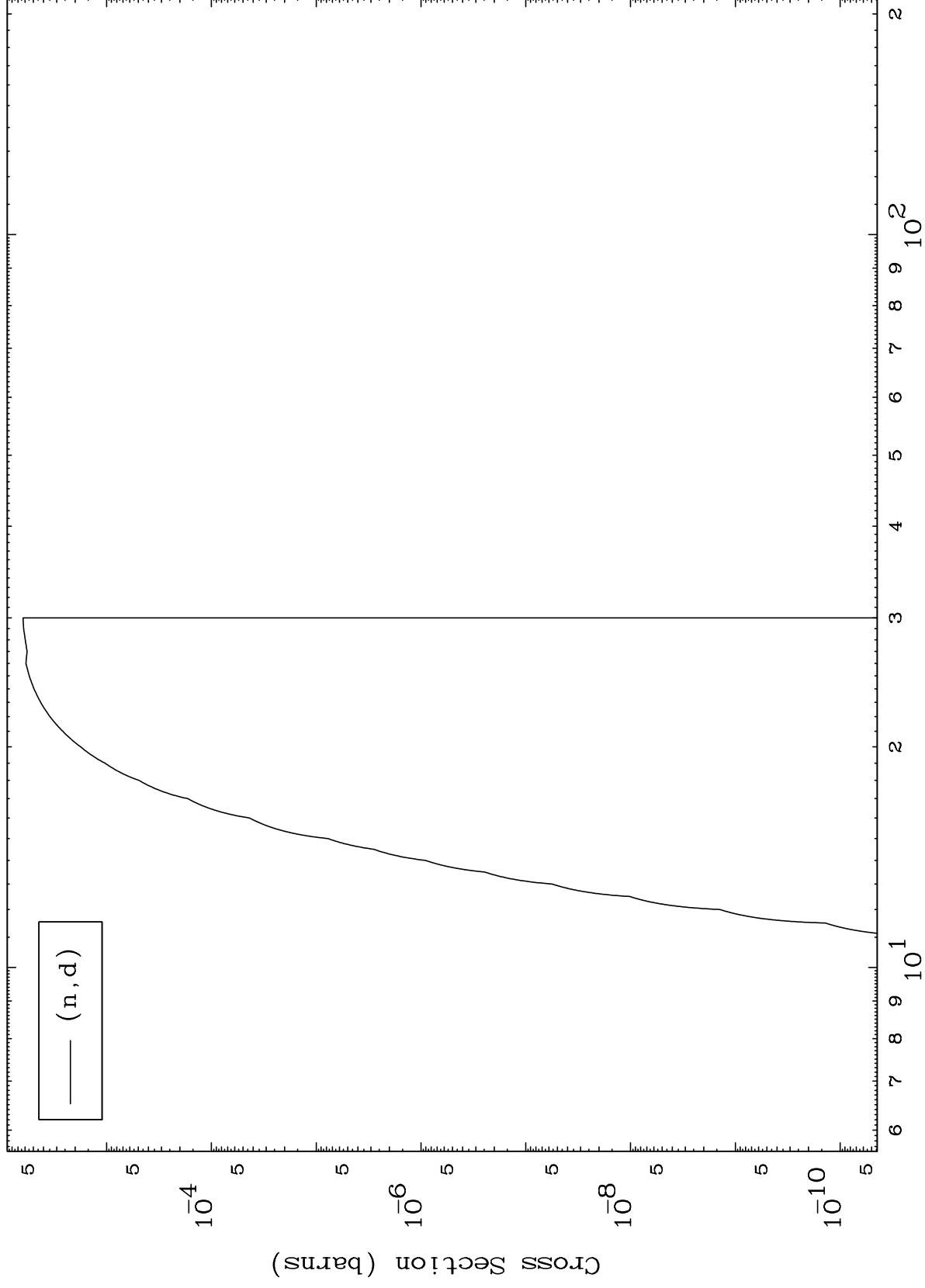




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(n,d) Levels
293 Kelvin Cross Sections

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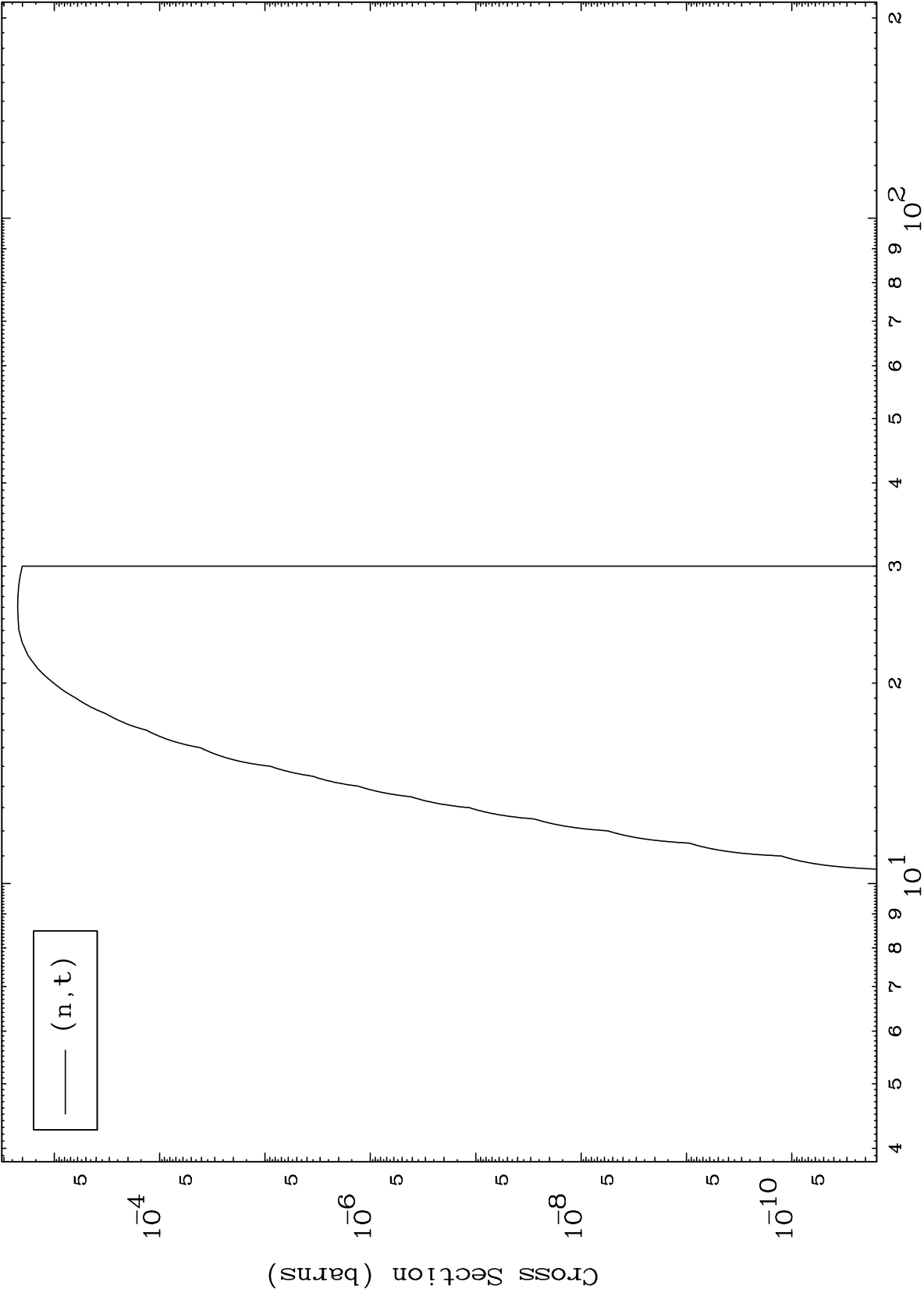
Incident Energy (MeV)

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(n,t) Levels
293 Kelvin Cross Sections

92-U -241



Incident Energy (MeV)

92-U -241

15

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(n,He3) Levels
293 Kelvin Cross Sections

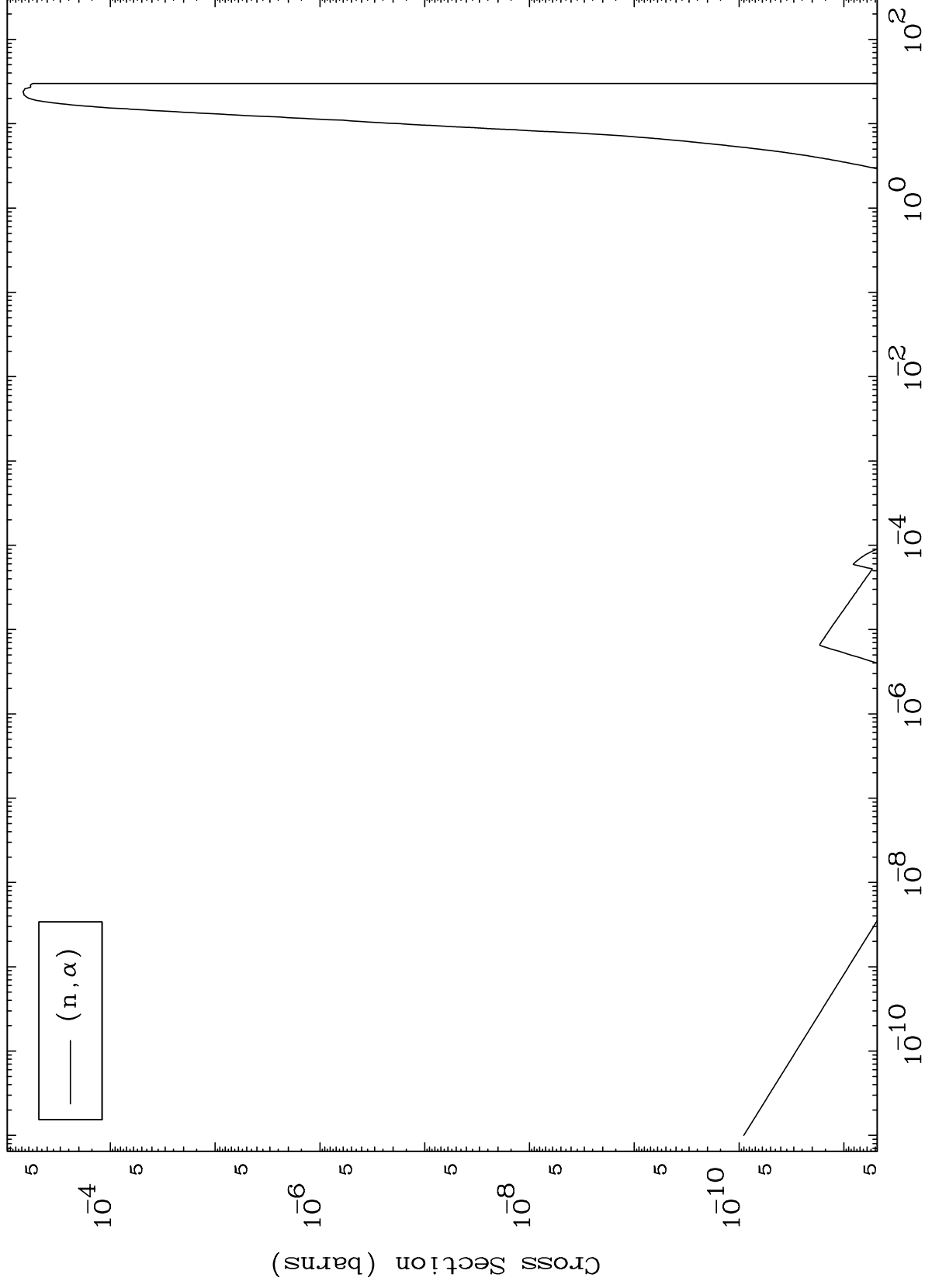
92-U -241

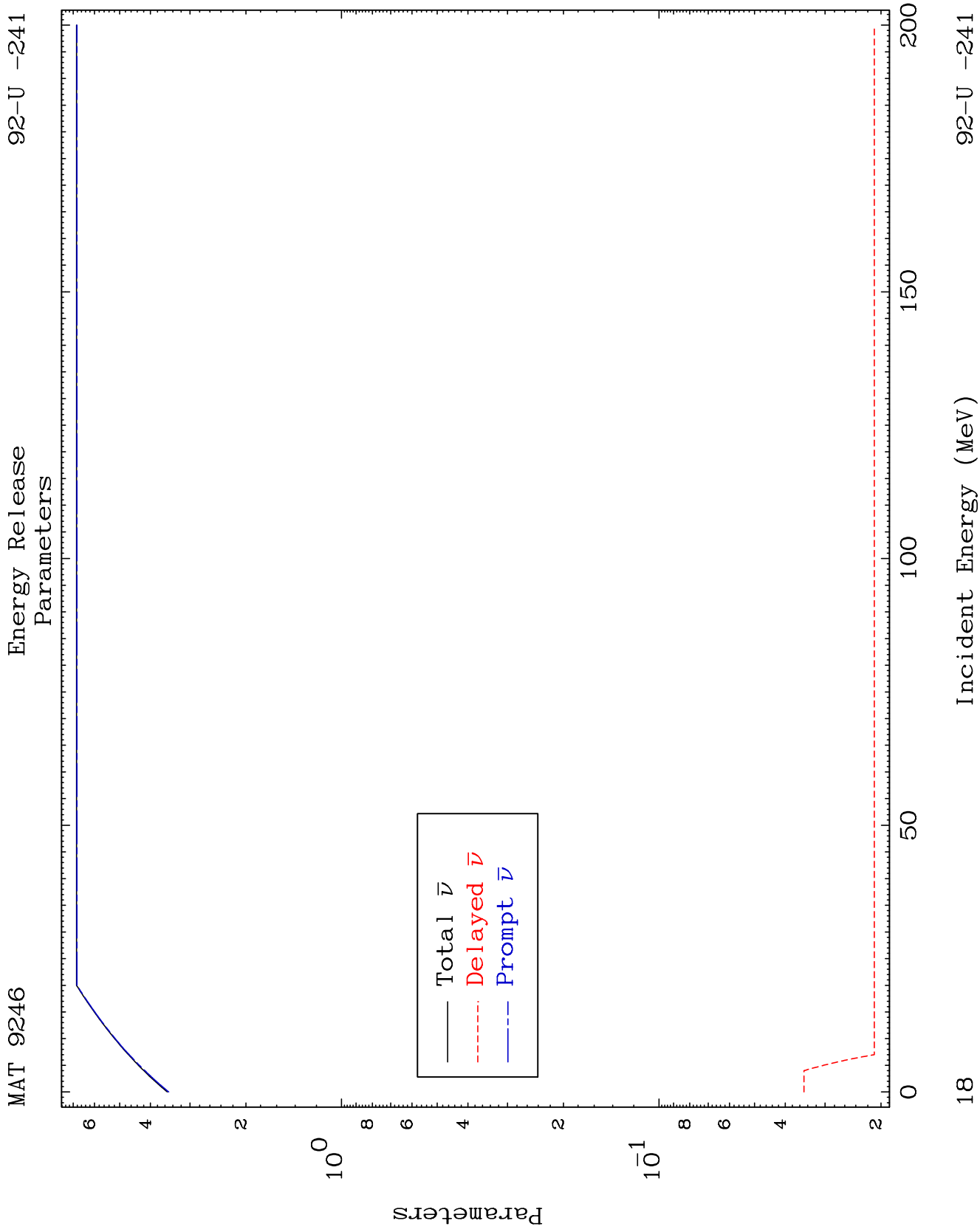
The plot shows the cross section for the reaction $n + \text{He-3}$ as a function of relative velocity. The y-axis represents the cross section in barns on a logarithmic scale, ranging from 10^{-12} to 10^{-6} . The x-axis represents the relative velocity on a logarithmic scale, ranging from 10^1 to 10^2 . A sharp resonance peak is visible at a relative velocity of approximately 2.5, where the cross section reaches its maximum value of about 10^{-6} barns. The cross section decreases significantly as the relative velocity increases beyond this resonance.

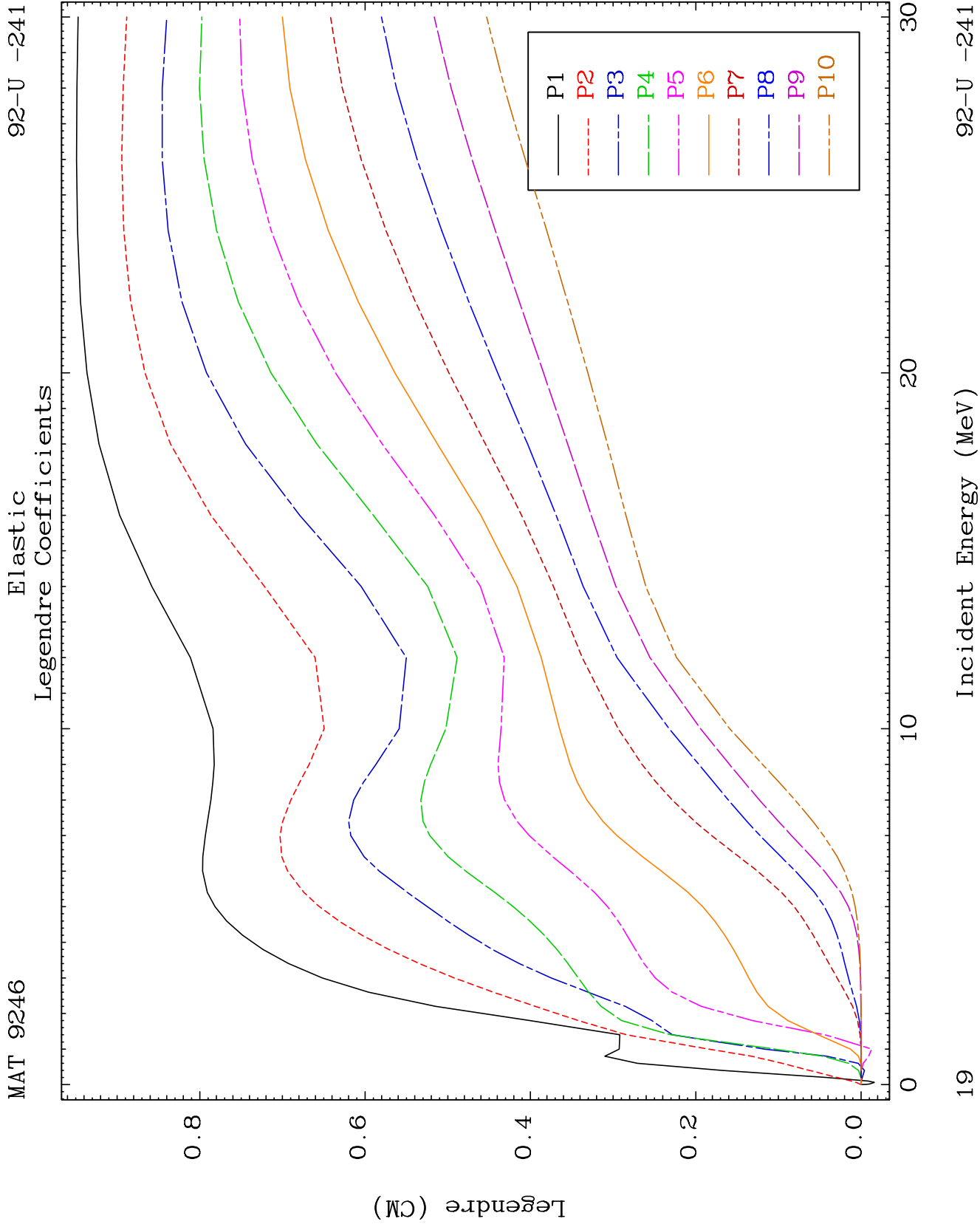
MAT 9246

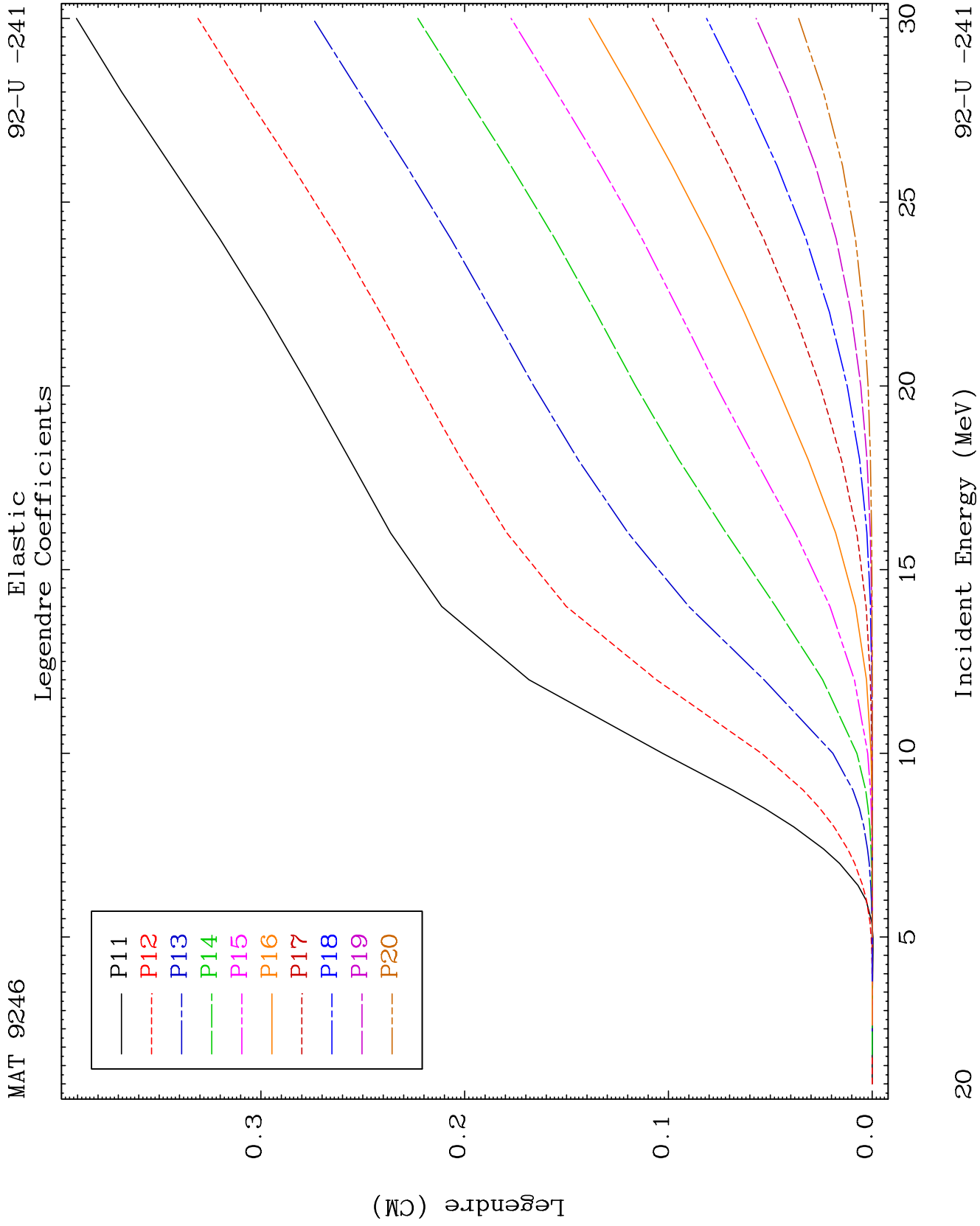
(n, α) Levels
293 Kelvin Cross Sections

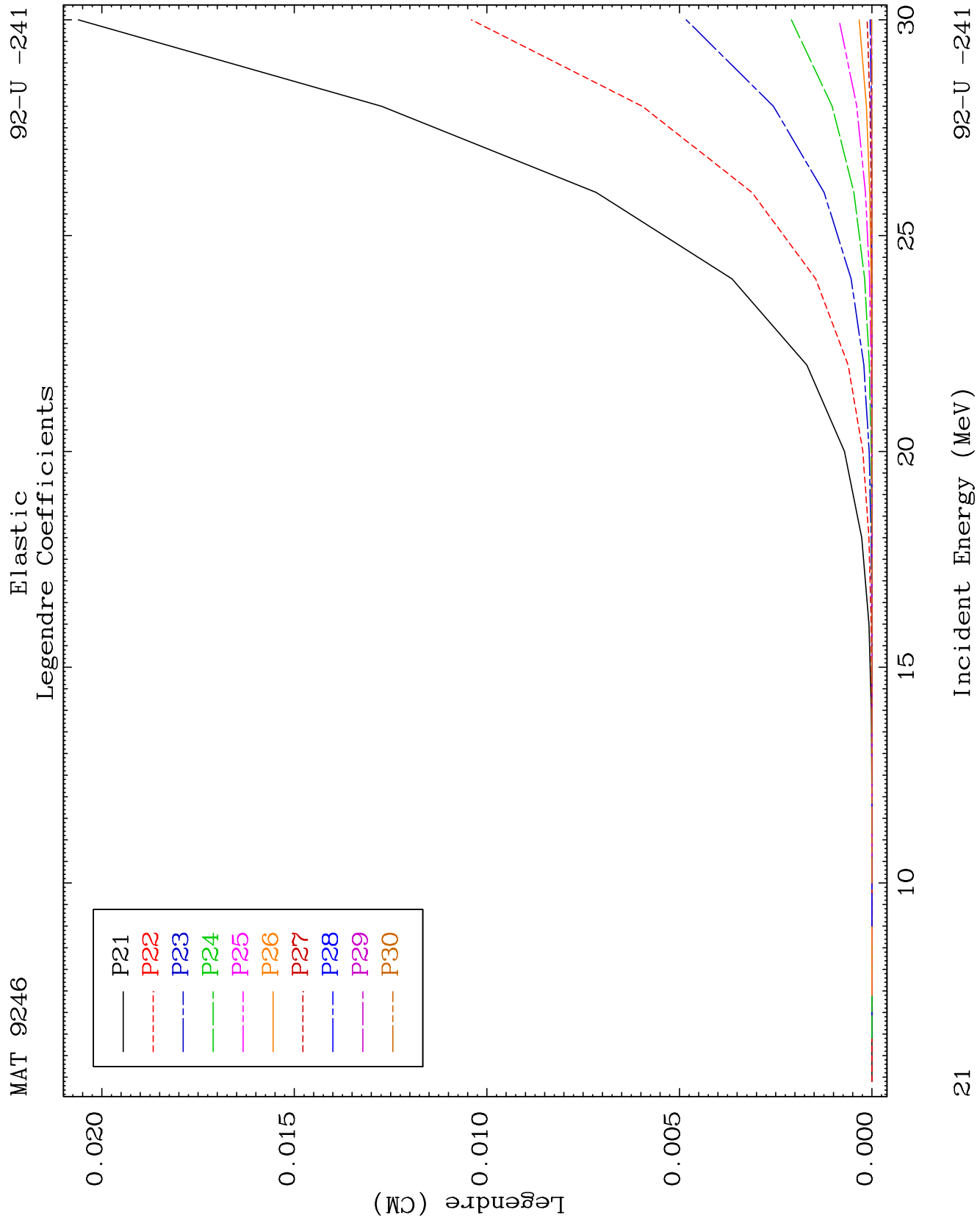
92-U -241

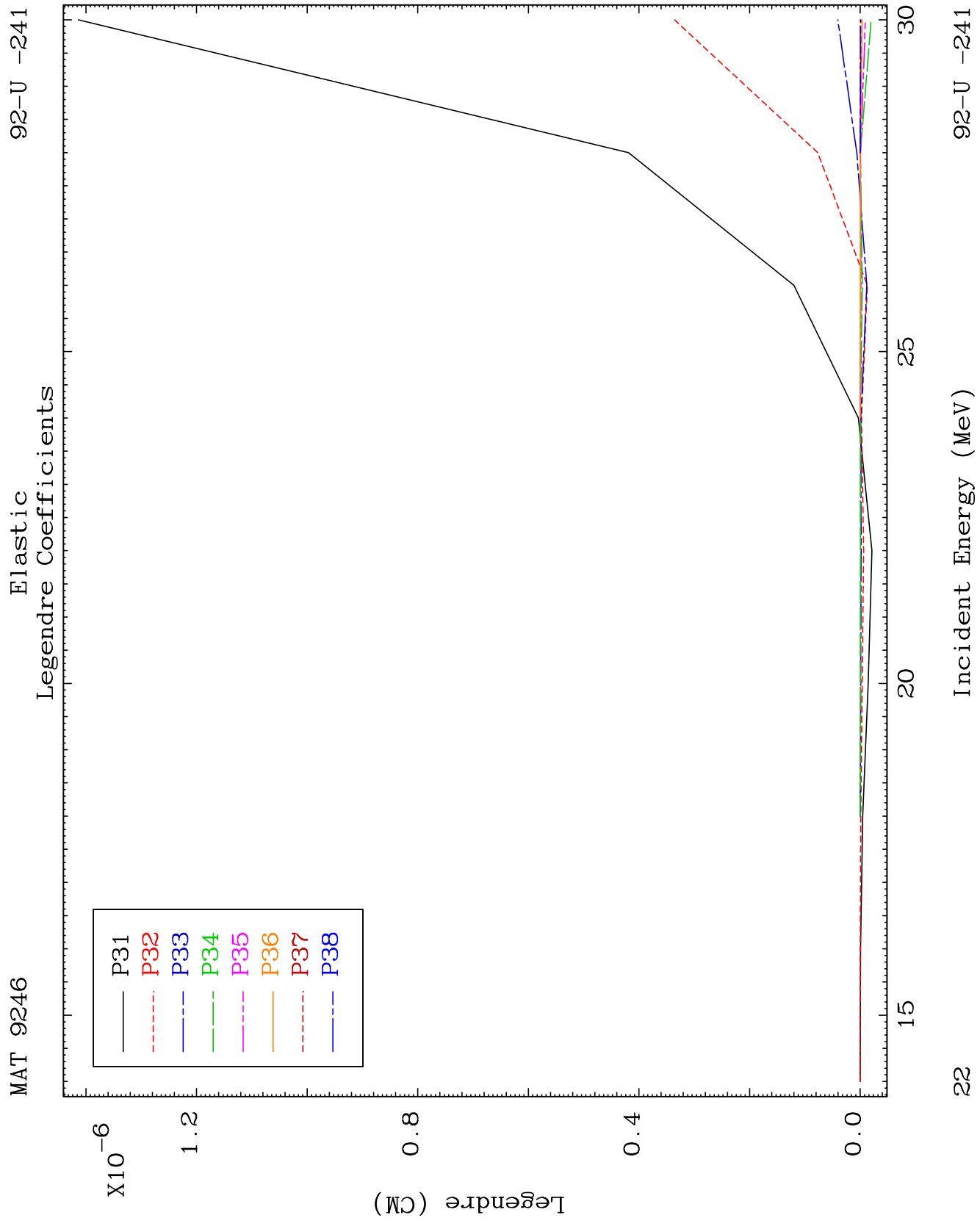








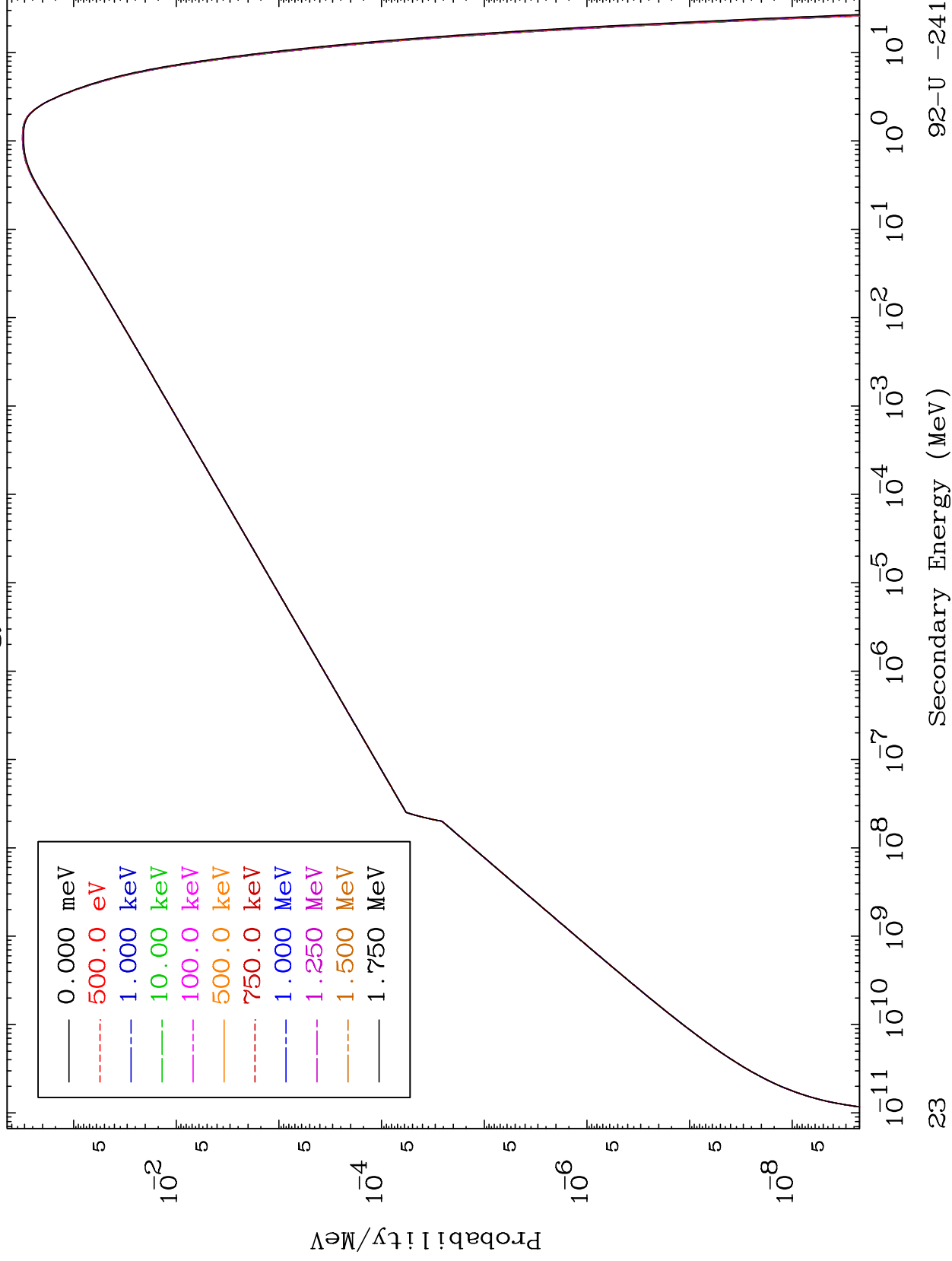




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Fission
Energy Distributions

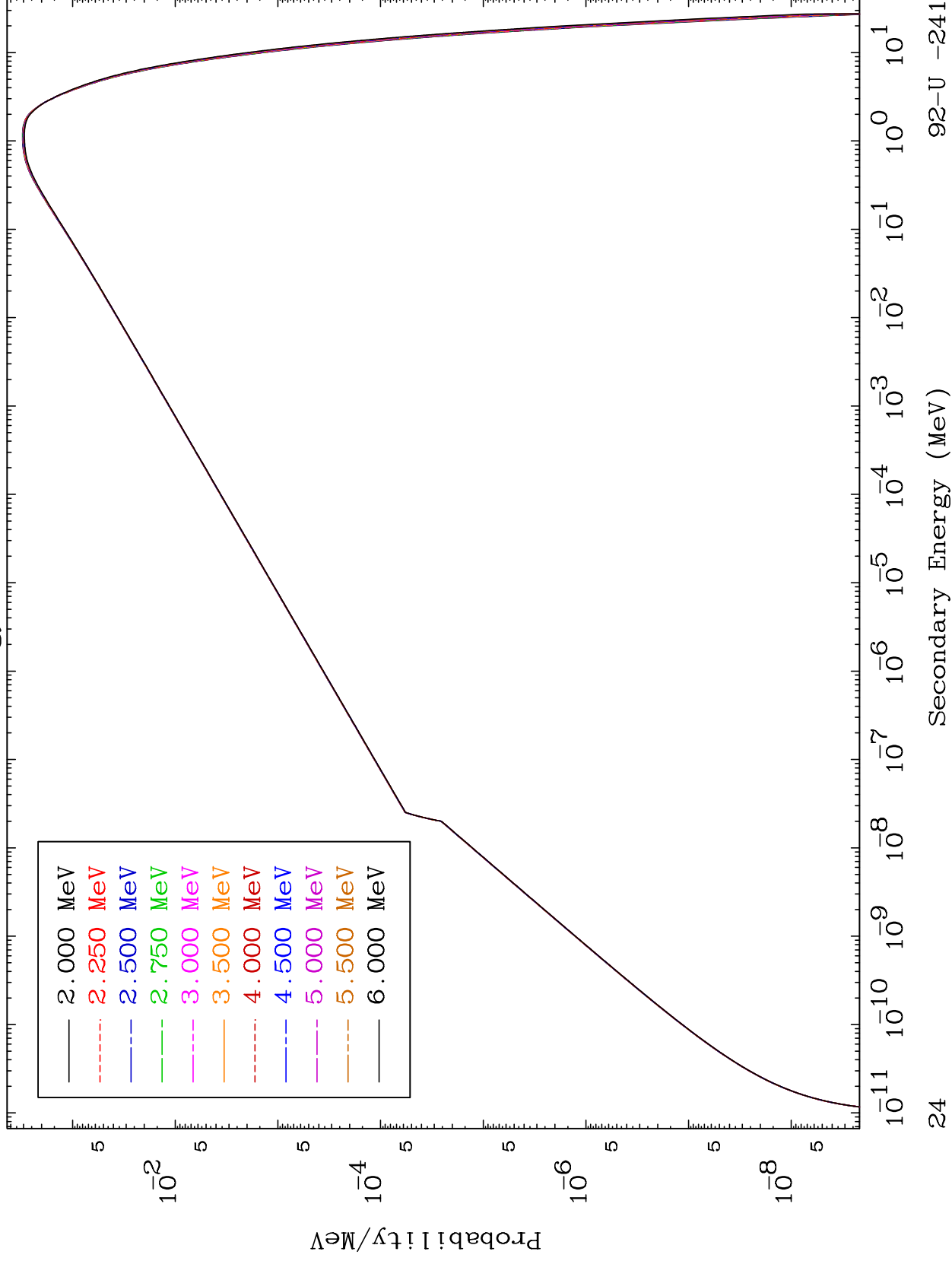
92-U -241



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Fission
Energy Distributions

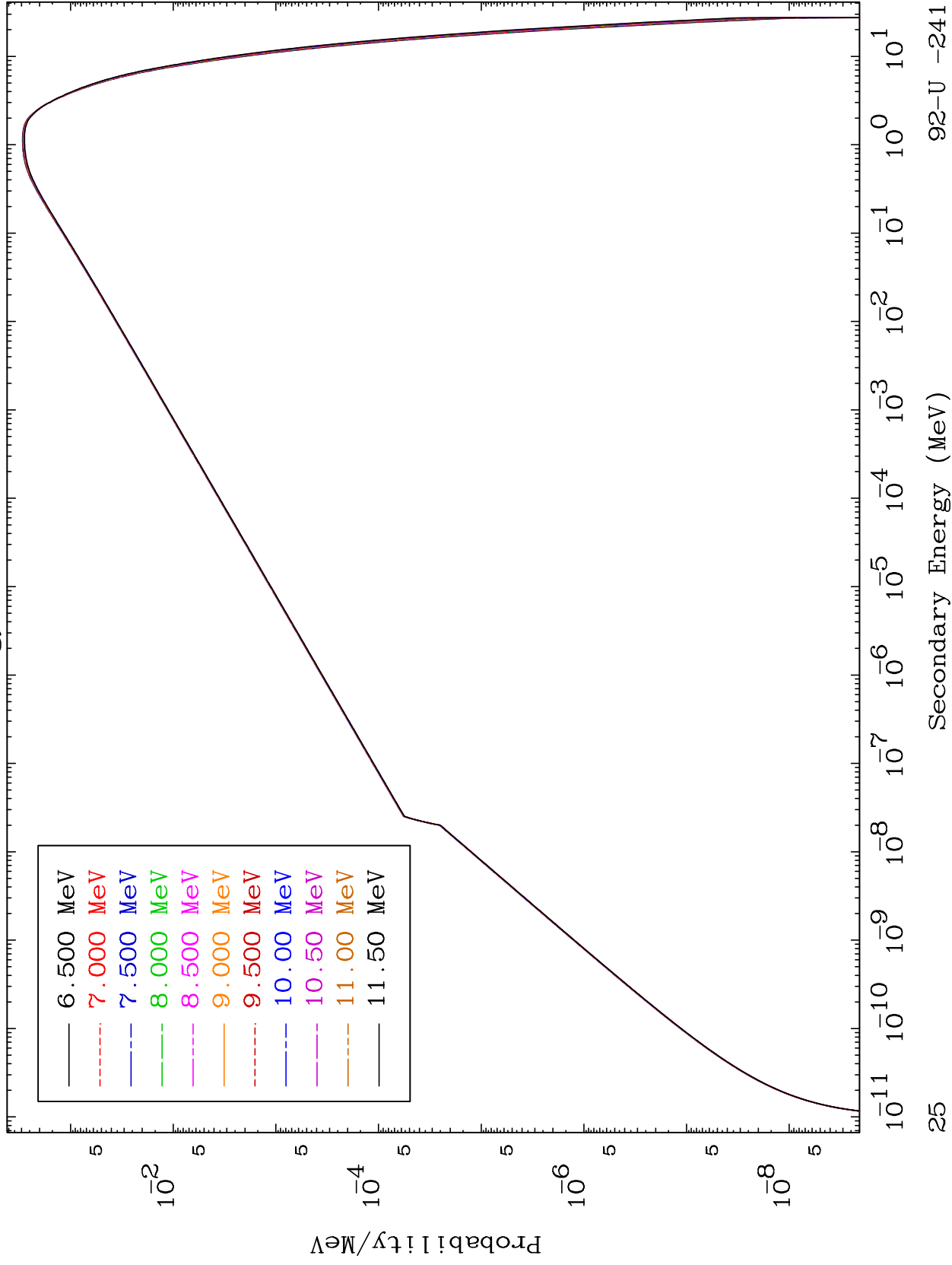
92-U -241



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Fission
Energy Distributions

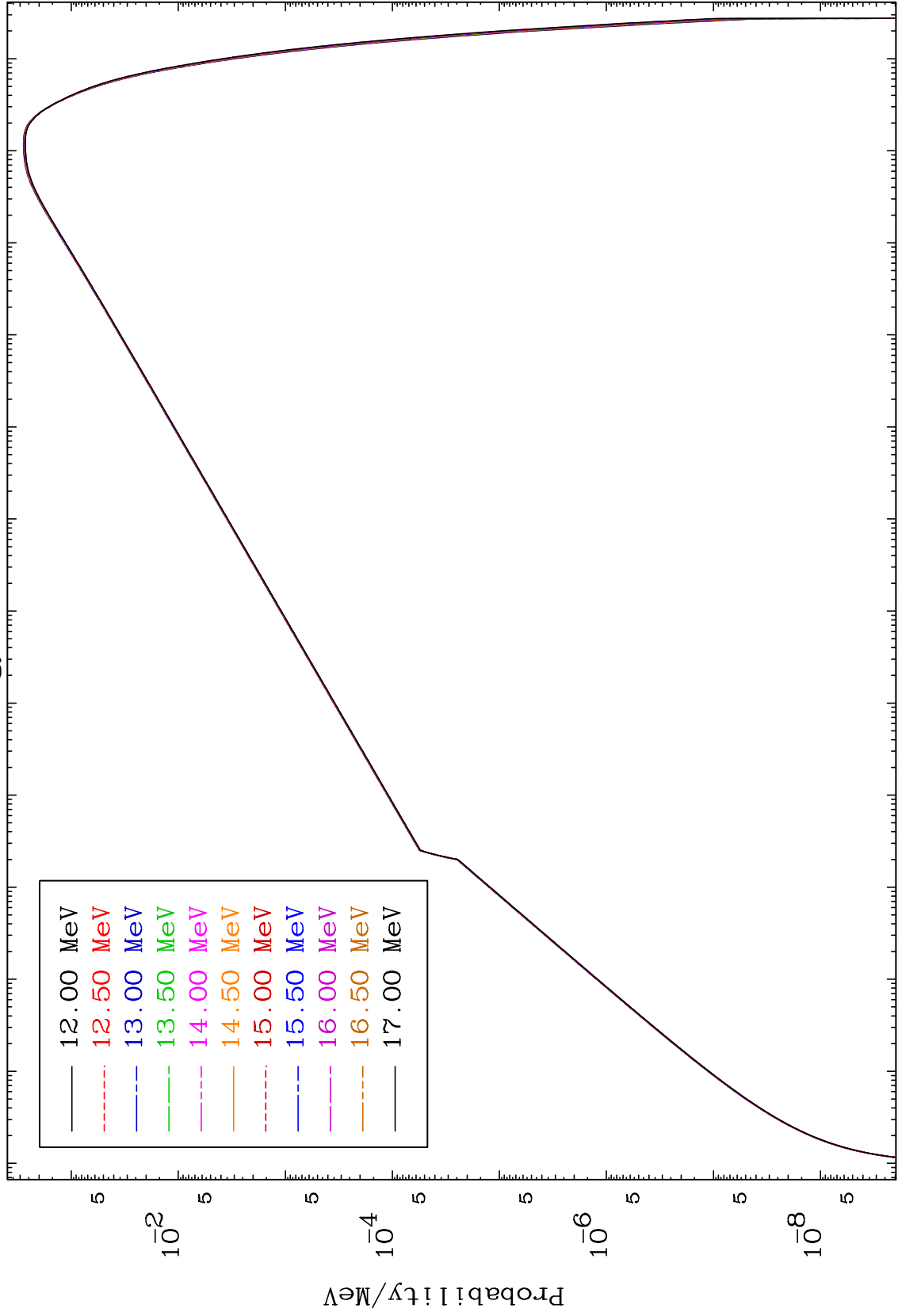
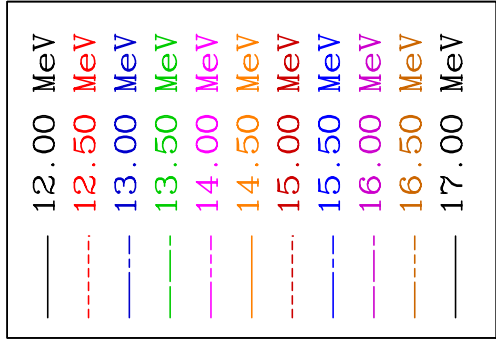
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Fission
Energy Distributions

92-U -241



92-U -241

Secondary Energy (MeV)

26

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Fission
Energy Distributions

92-U -241

