

Program EVALPLOT  
(Version 2018-1)

by

Dermott E. Cullen  
(Present Contact Information)

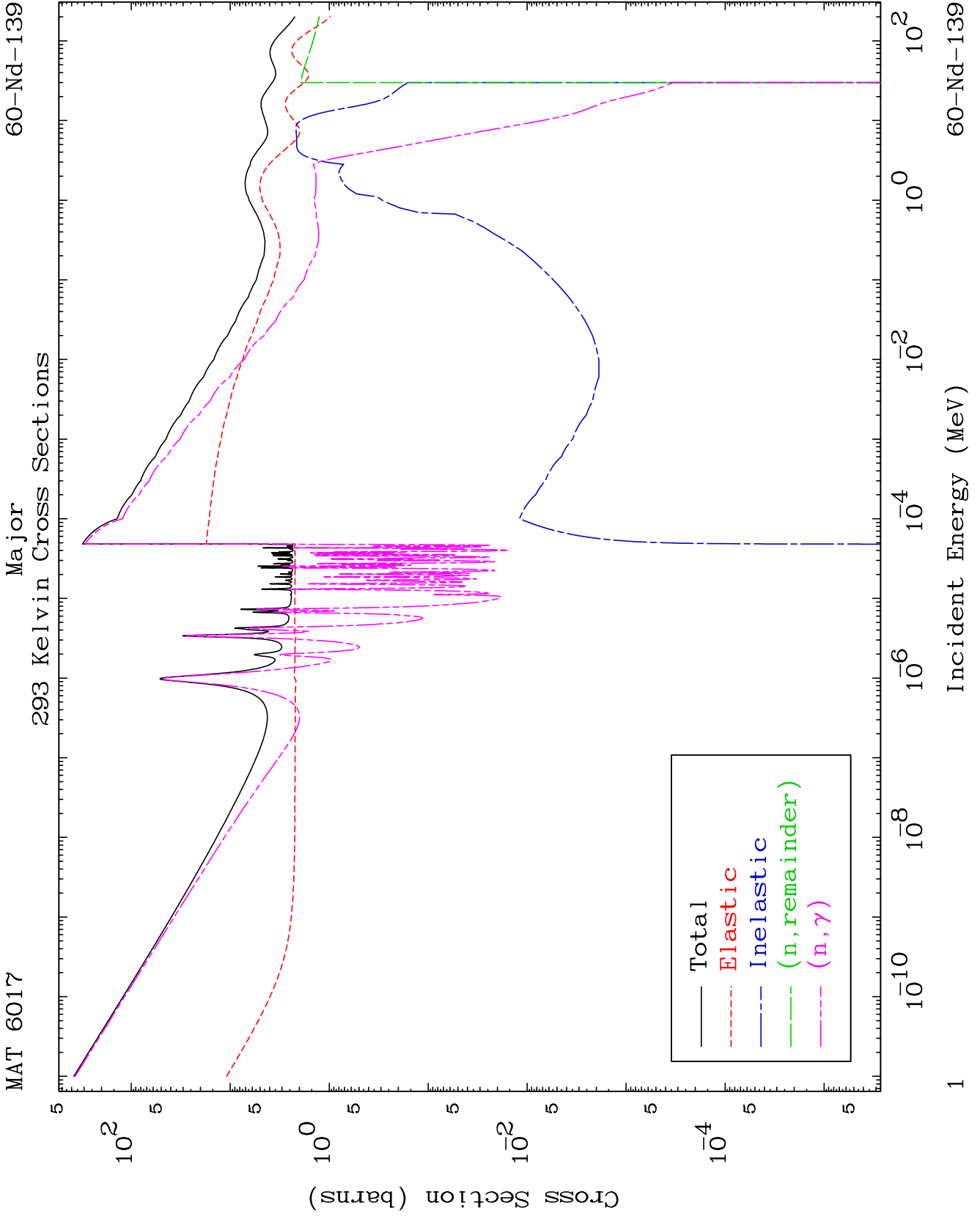
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E.Mail:redcullen1@comcast.net

Web:redcullen1.net/HOMEPAGE.NEW

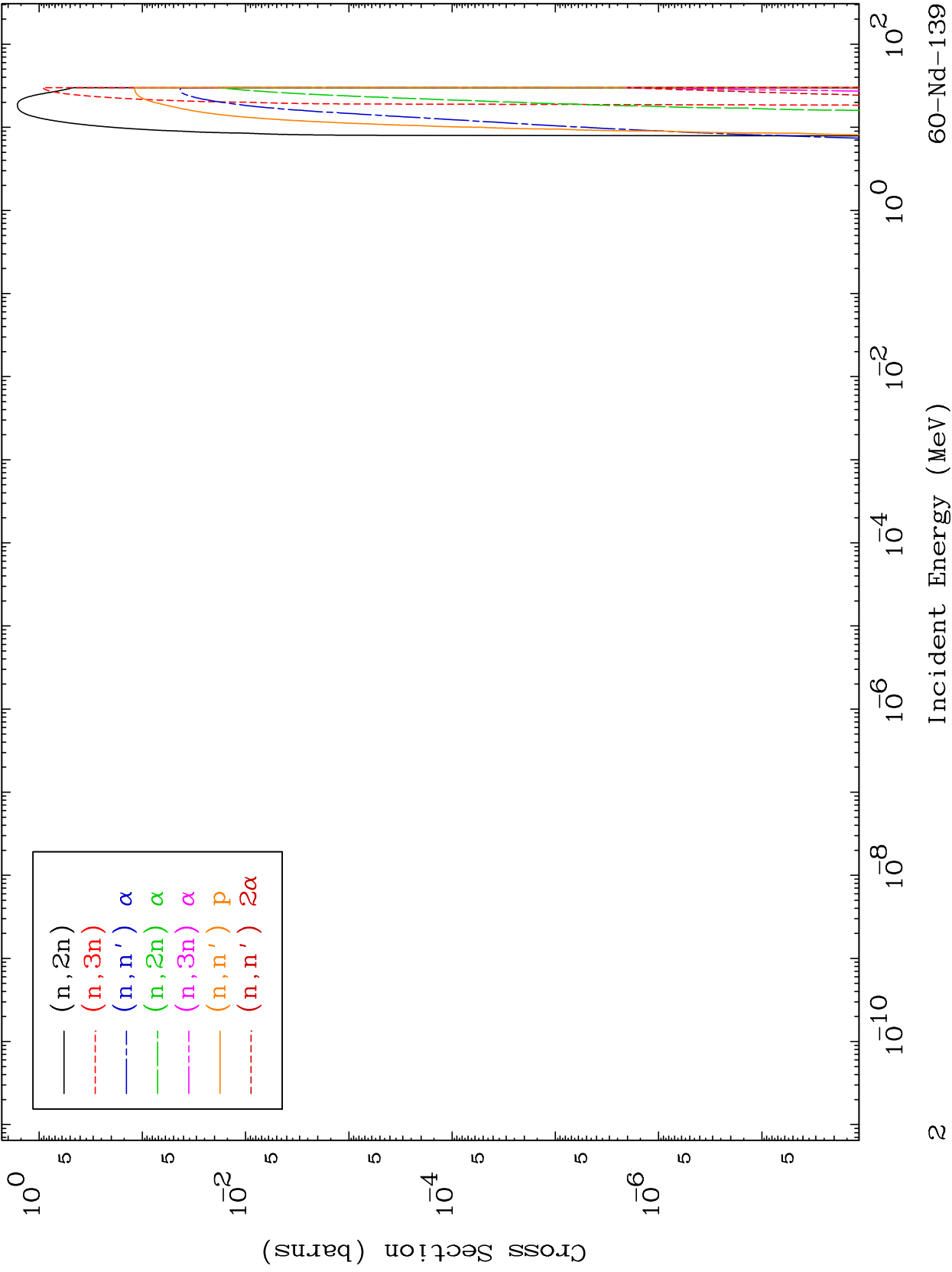
Press Mouse Button to Start



MAT 6017

Neutron Production  
293 Kelvin Cross Sections

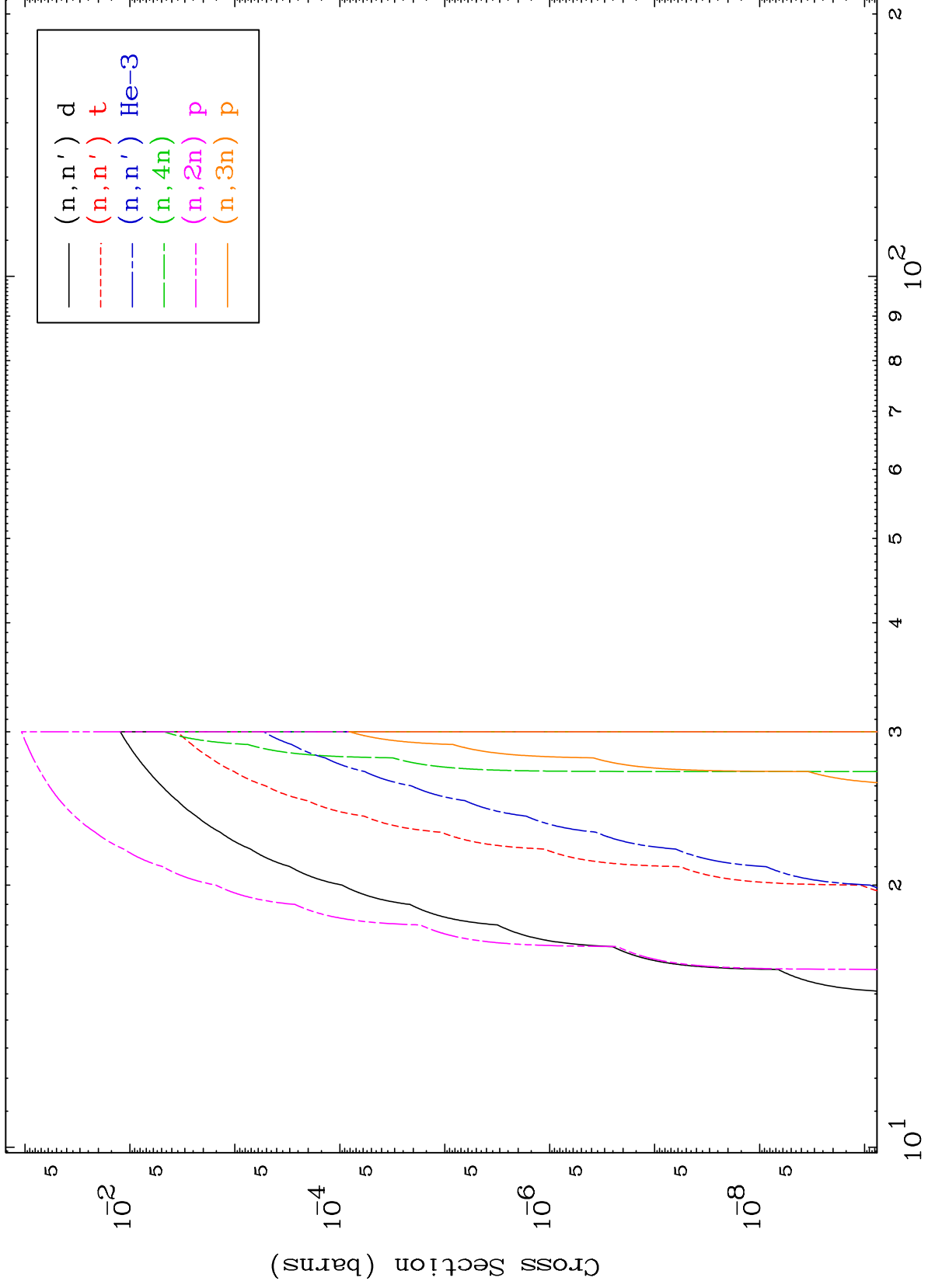
60-Nd-139



MAT 6017

Neutron Production  
293 Kelvin Cross Sections

60-Nd-139



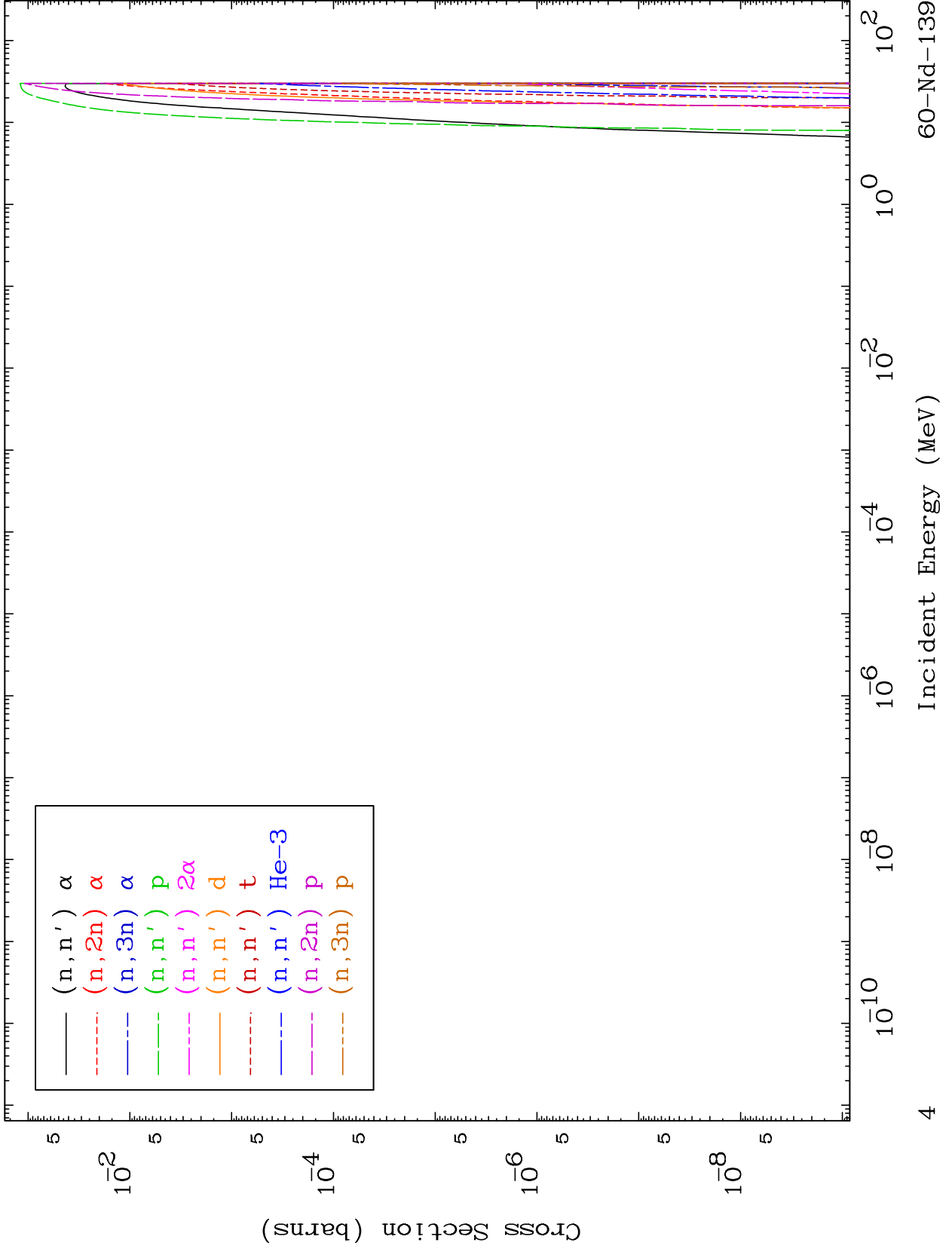
Incident Energy (MeV)

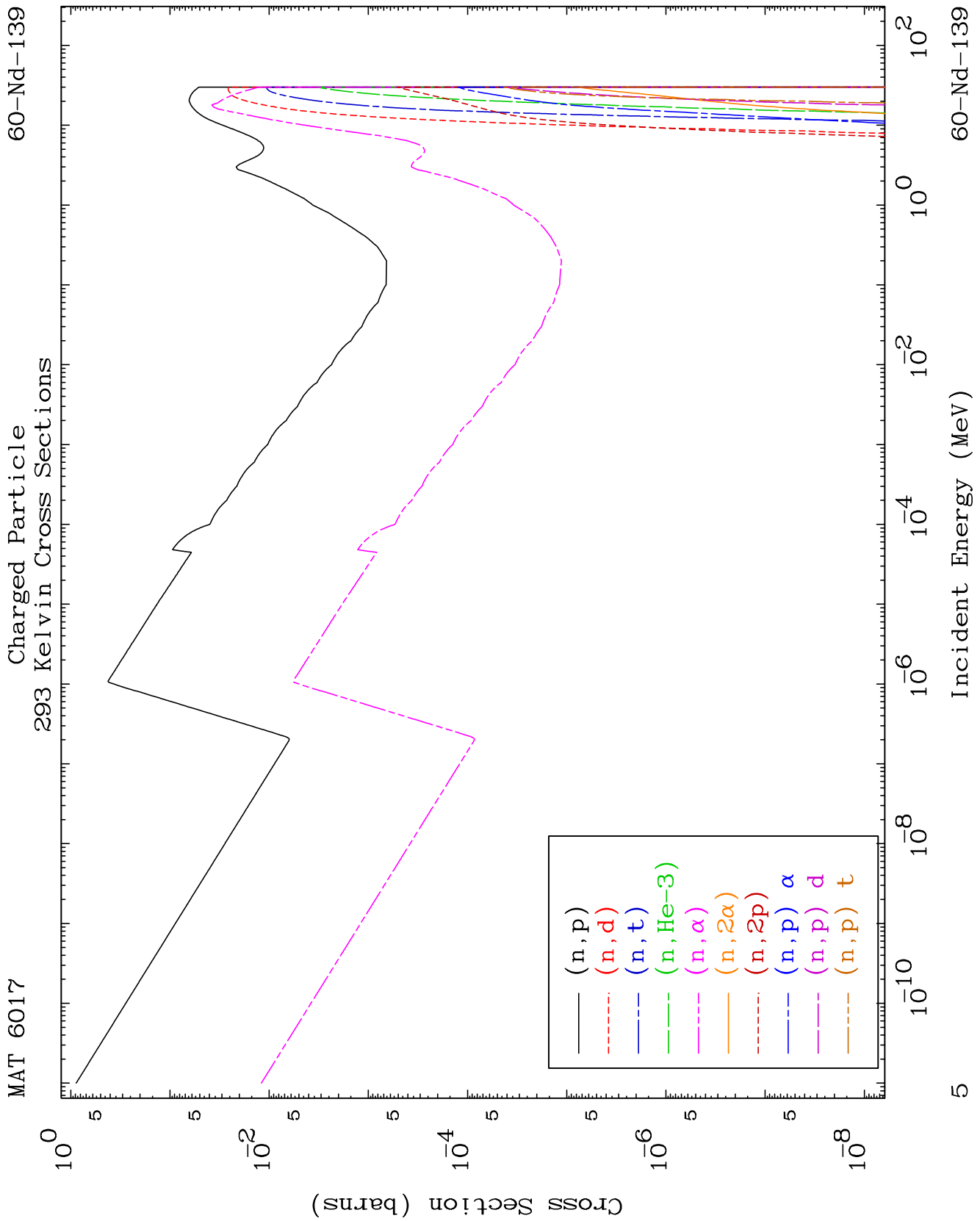
60-Nd-139

MAT 6017

Charged Particle  
293 Kelvin Cross Sections

60-Nd-139

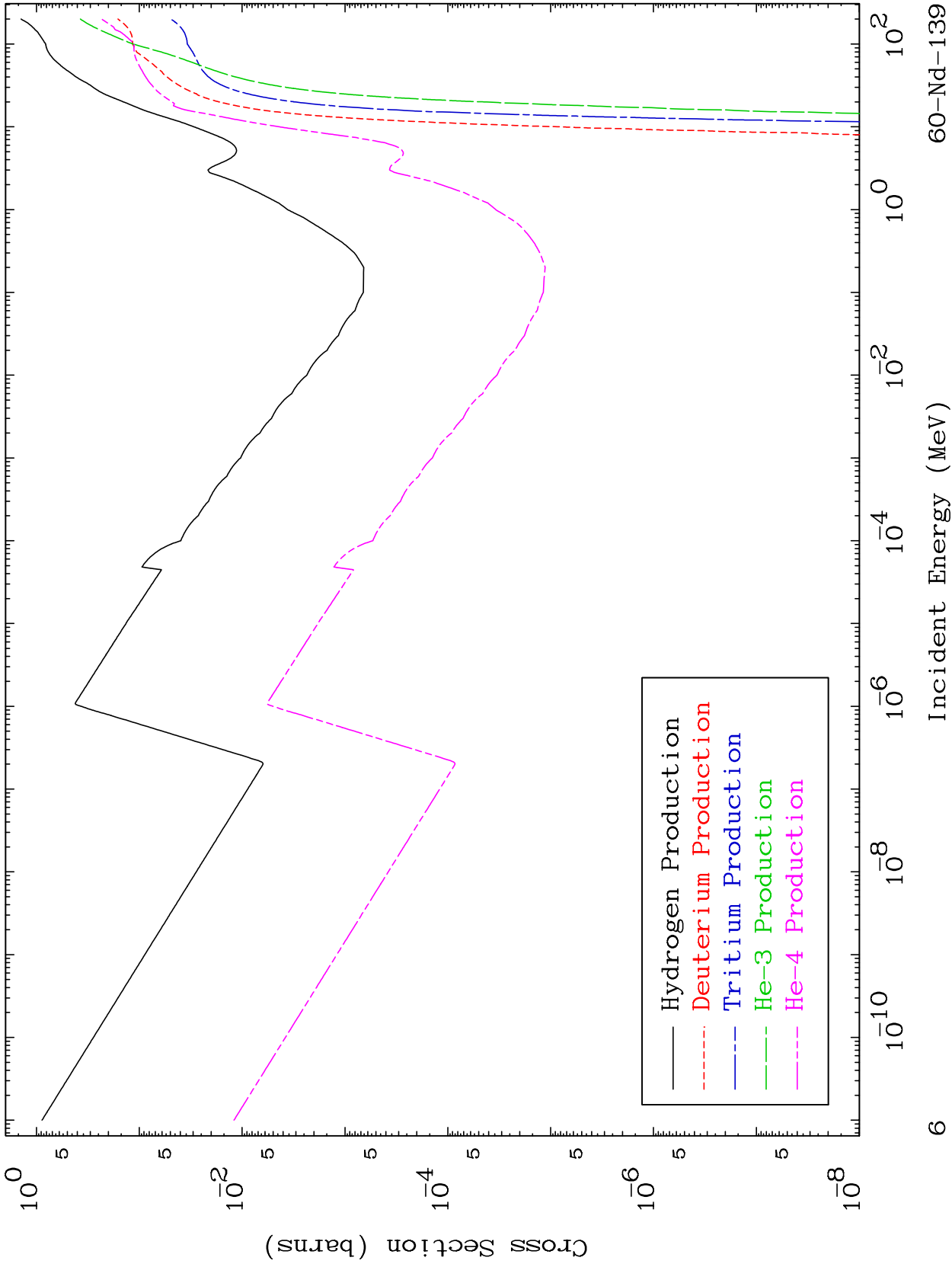




MAT 6017

Particle Production  
293 Kelvin Cross Sections

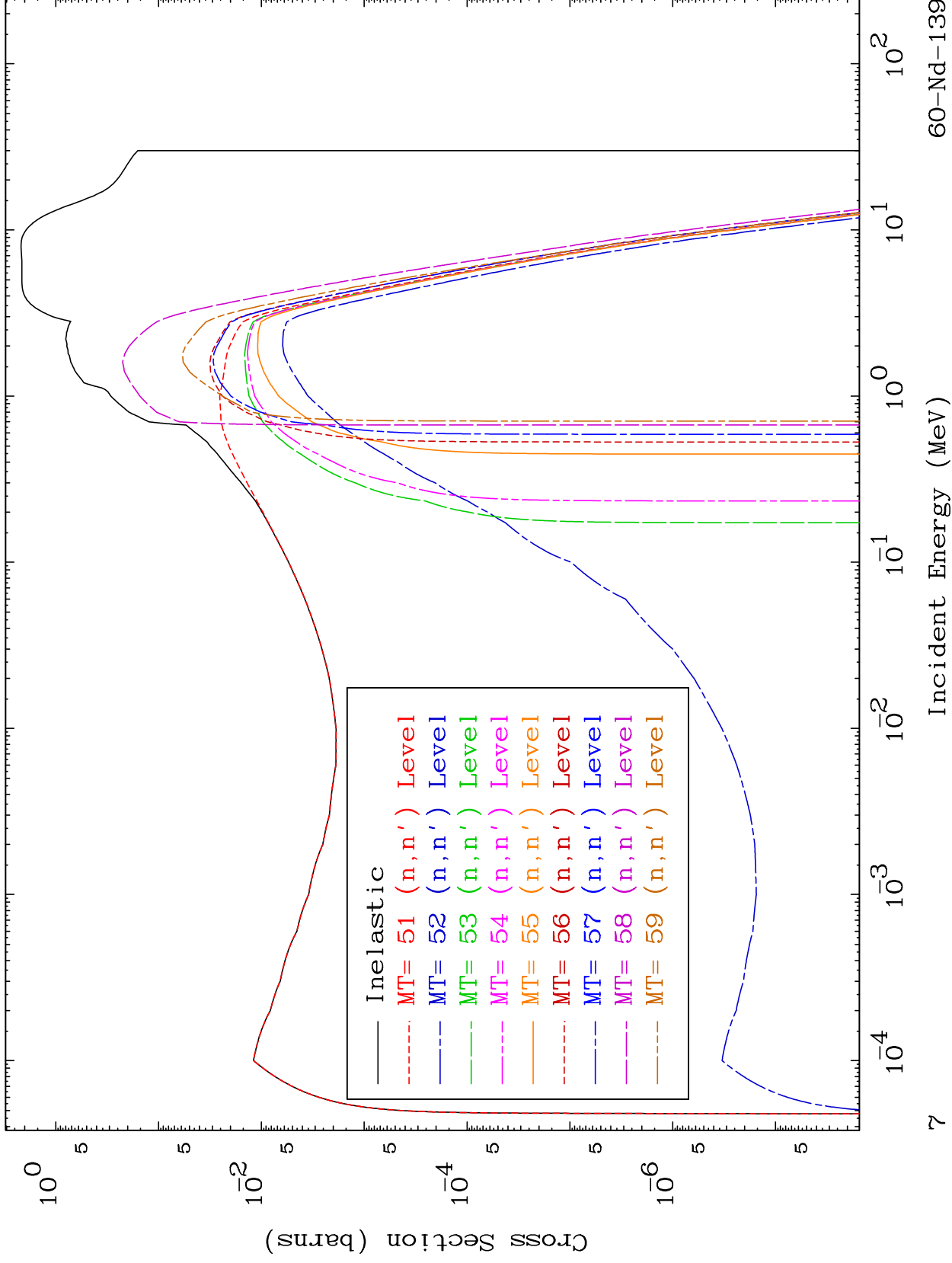
60-Nd-139



MAT 6017

(n,n') Level  
293 Kelvin Cross Sections

60-Nd-139



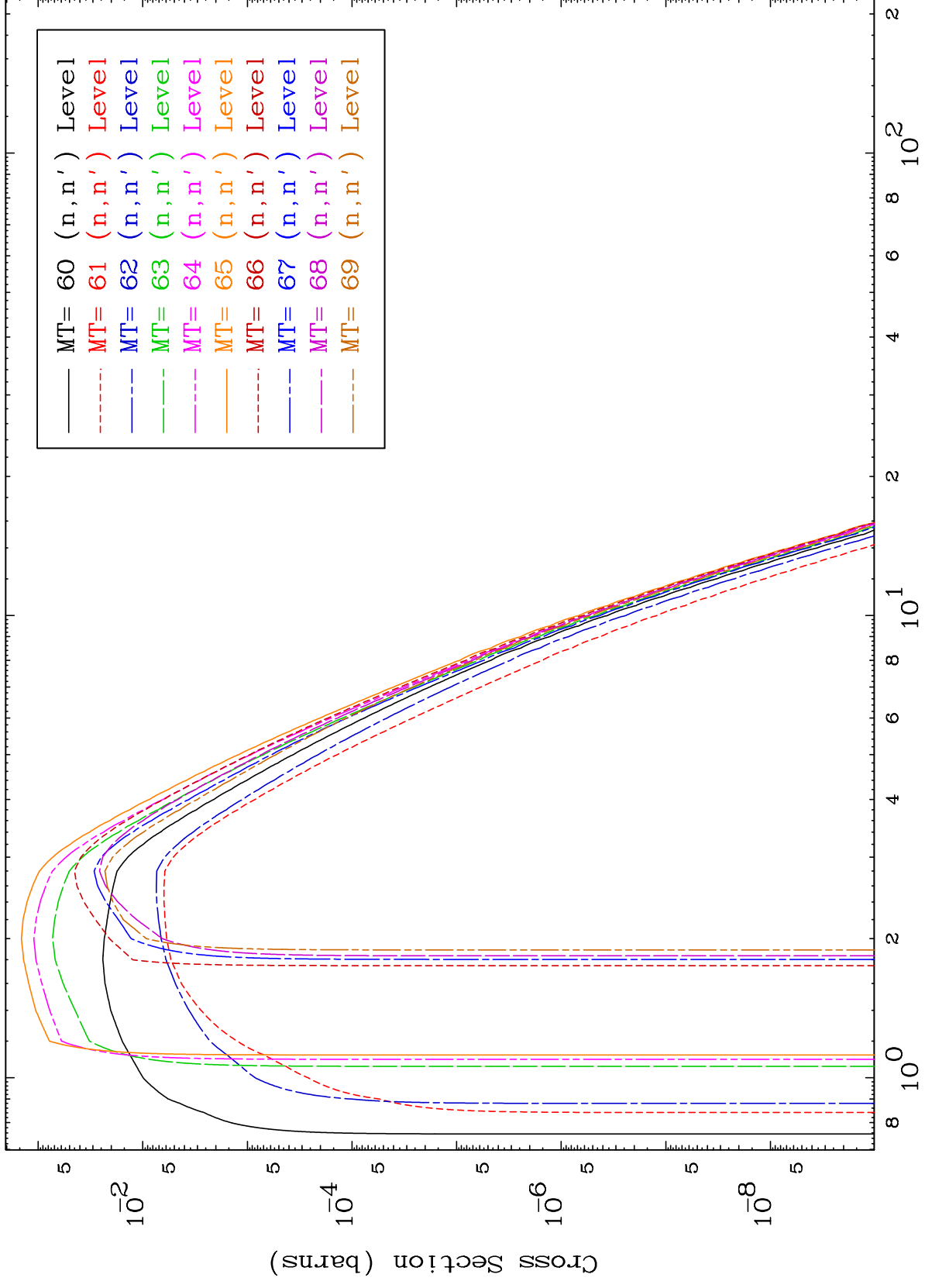


MAT 6017

(n,n') Level

60-Nd-139

293 Kelvin Cross Sections



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Incident Energy (MeV)

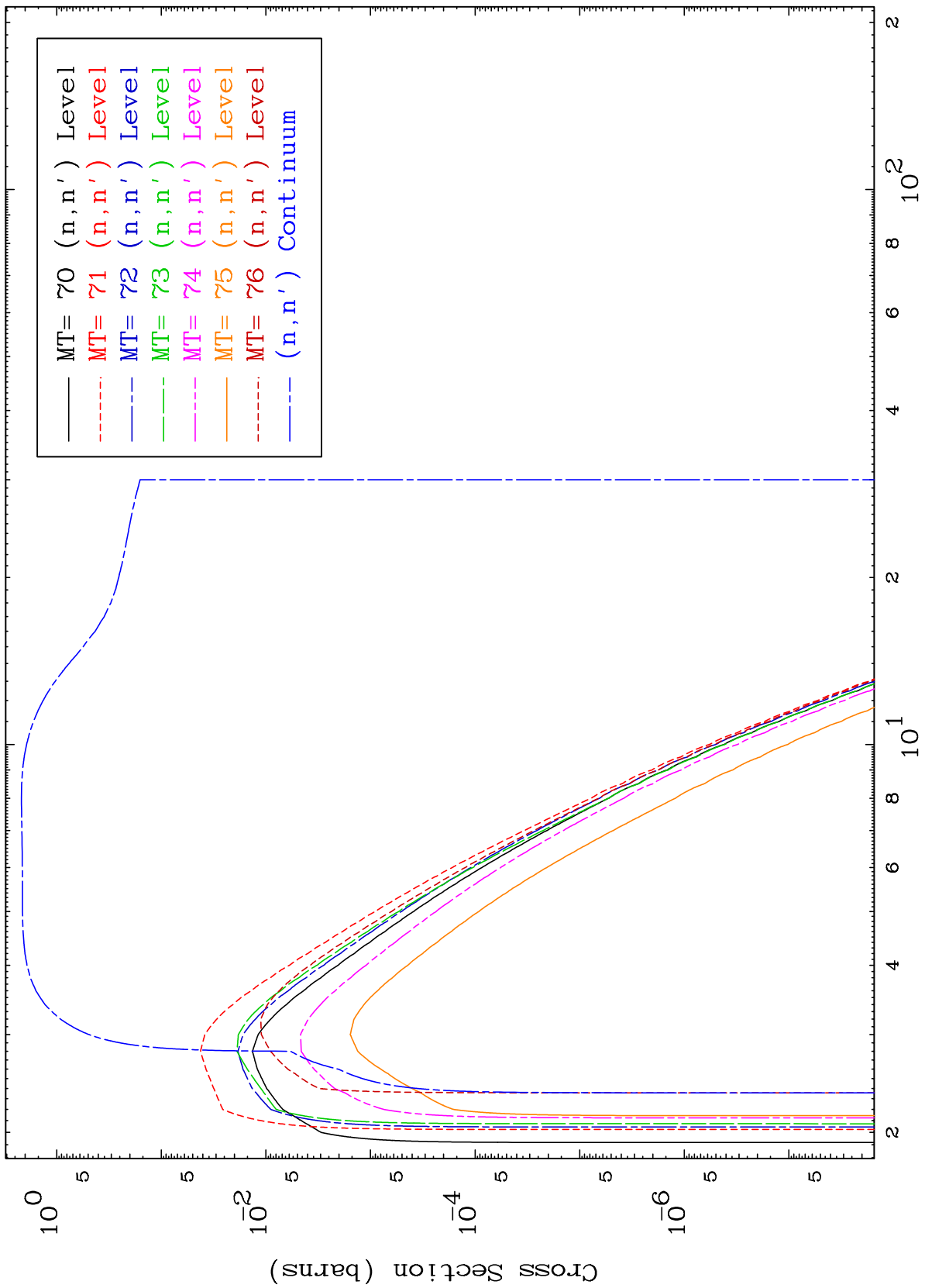
60-Nd-139

MAT 6017

(n,n') Level

60-Nd-139

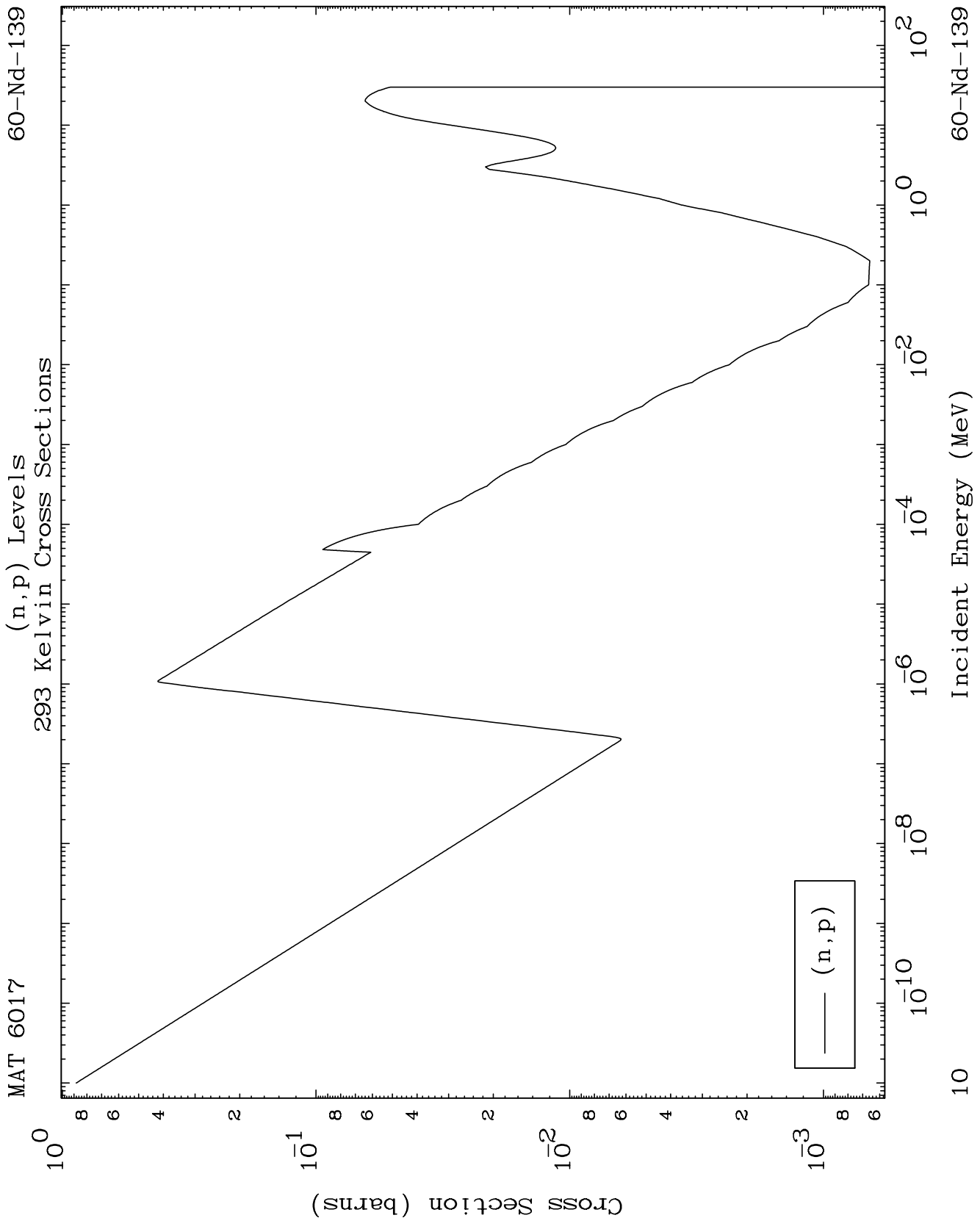
293 Kelvin Cross Sections



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Incident Energy (MeV)

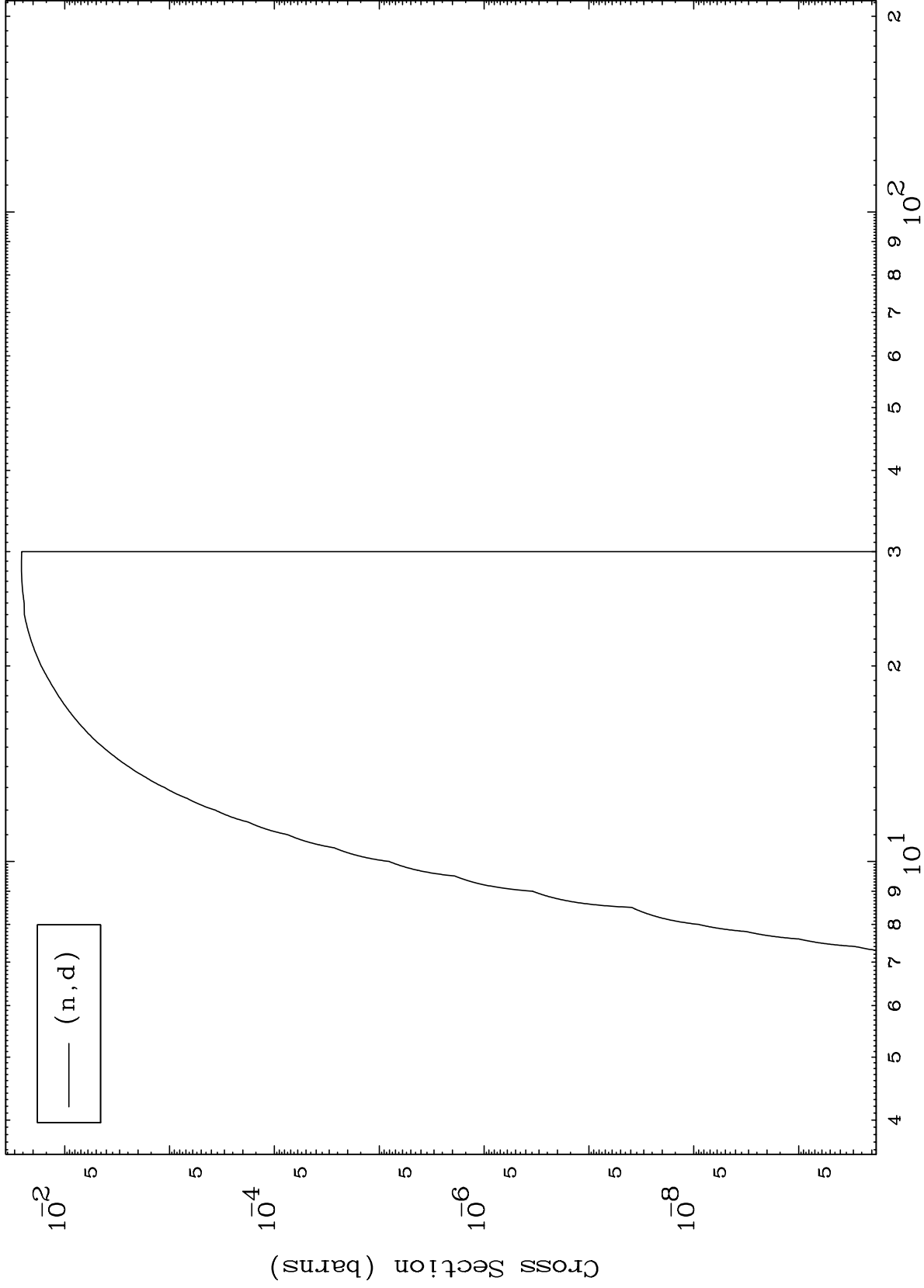
60-Nd-139



MAT 6017

(n,d) Levels  
293 Kelvin Cross Sections

60-Nd-139



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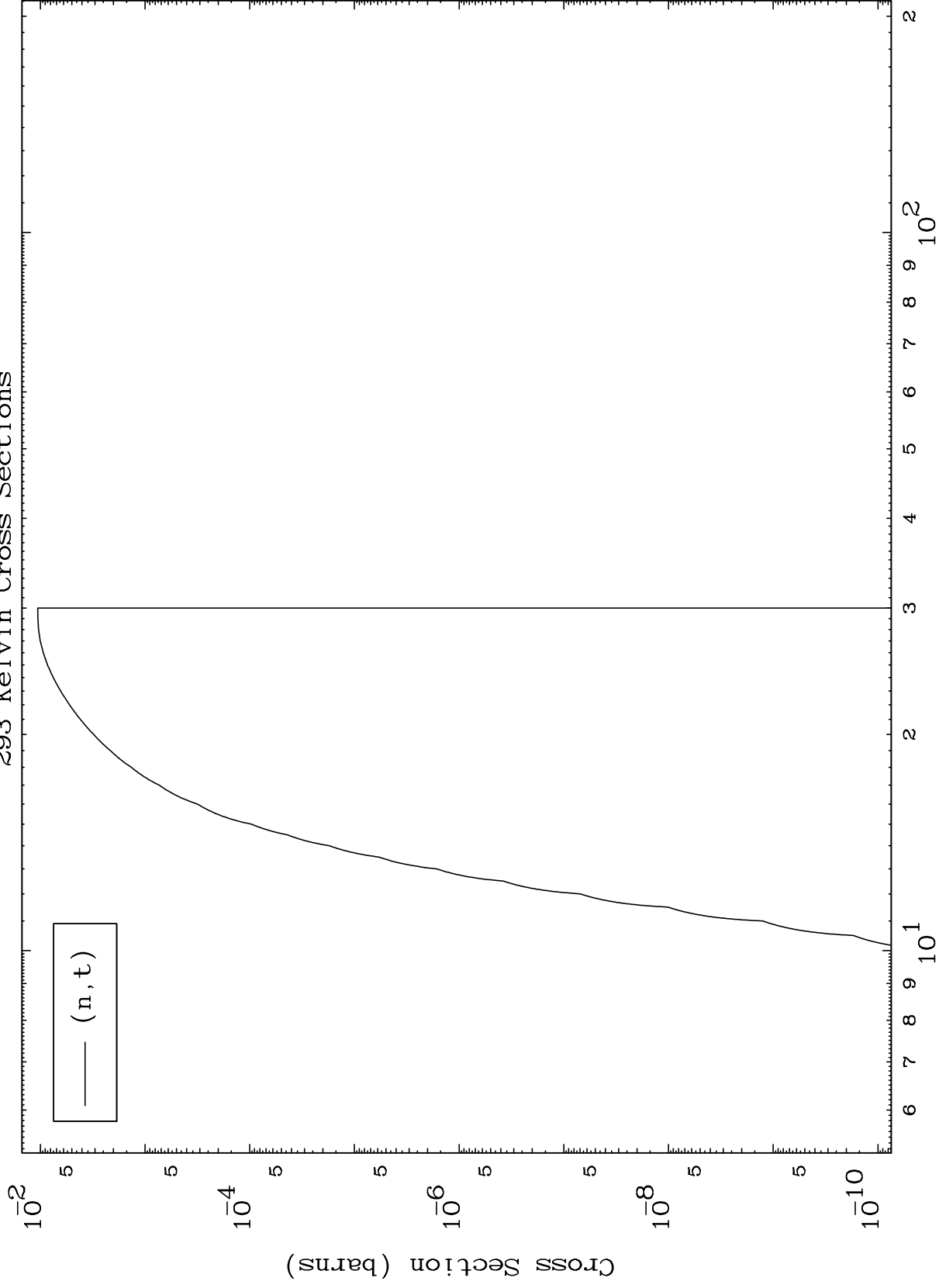
Incident Energy (MeV)

60-Nd-139

MAT 6017

(n,t) Levels  
293 Kelvin Cross Sections

60-Nd-139



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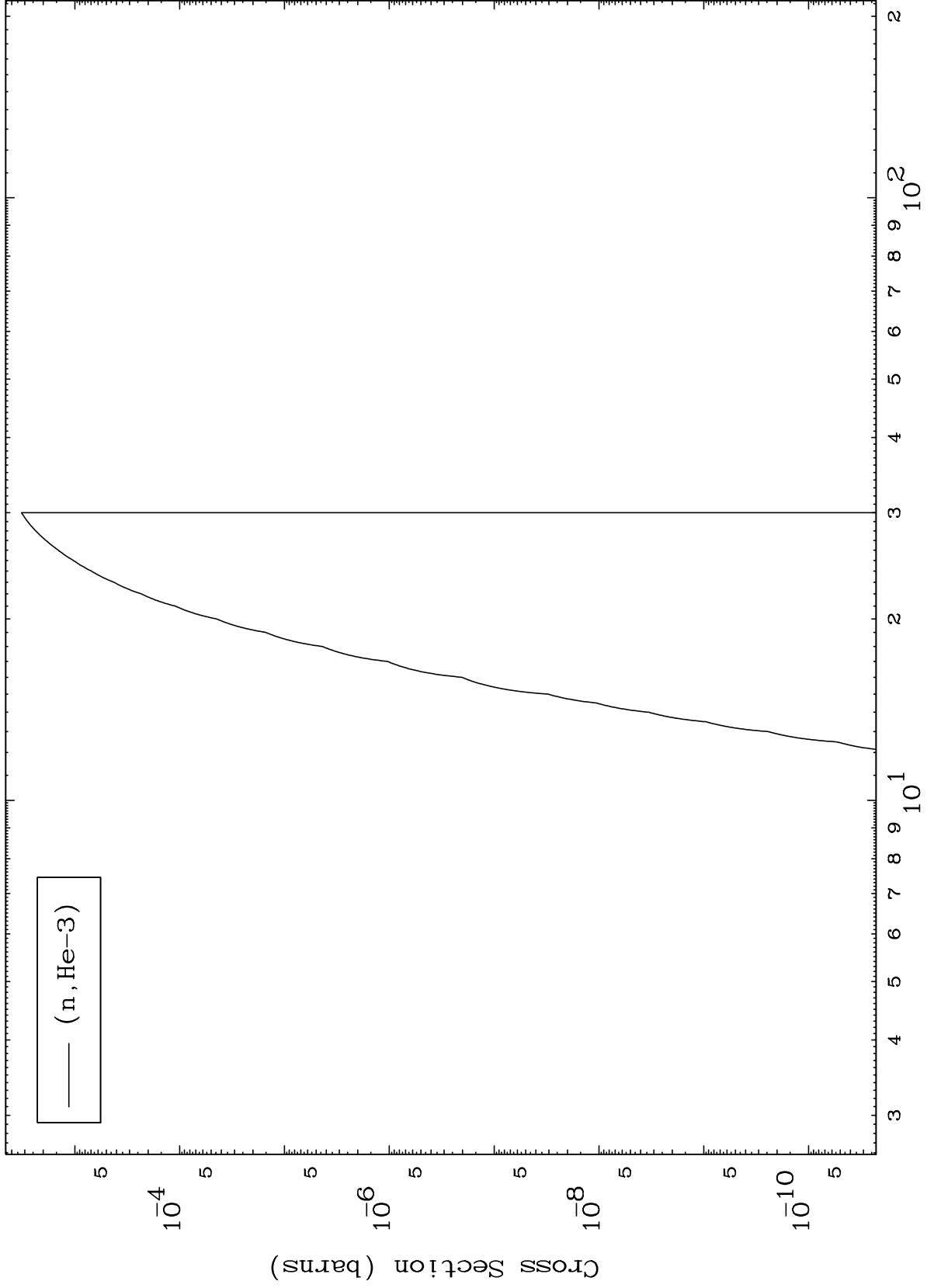
Incident Energy (MeV)

60-Nd-139

MAT 6017

(n,He3) Levels  
293 Kelvin Cross Sections

60-Nd-139



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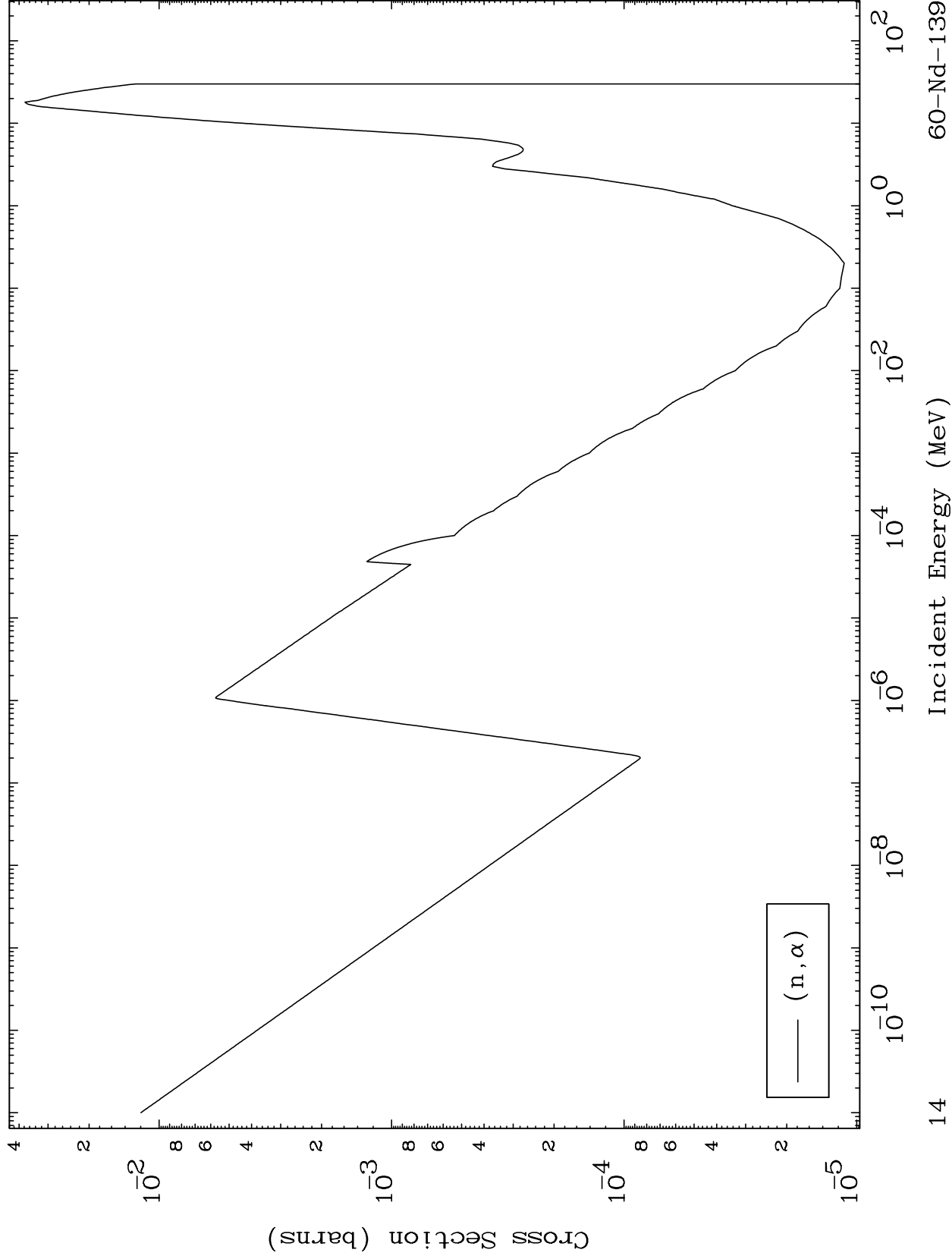
Incident Energy (MeV)

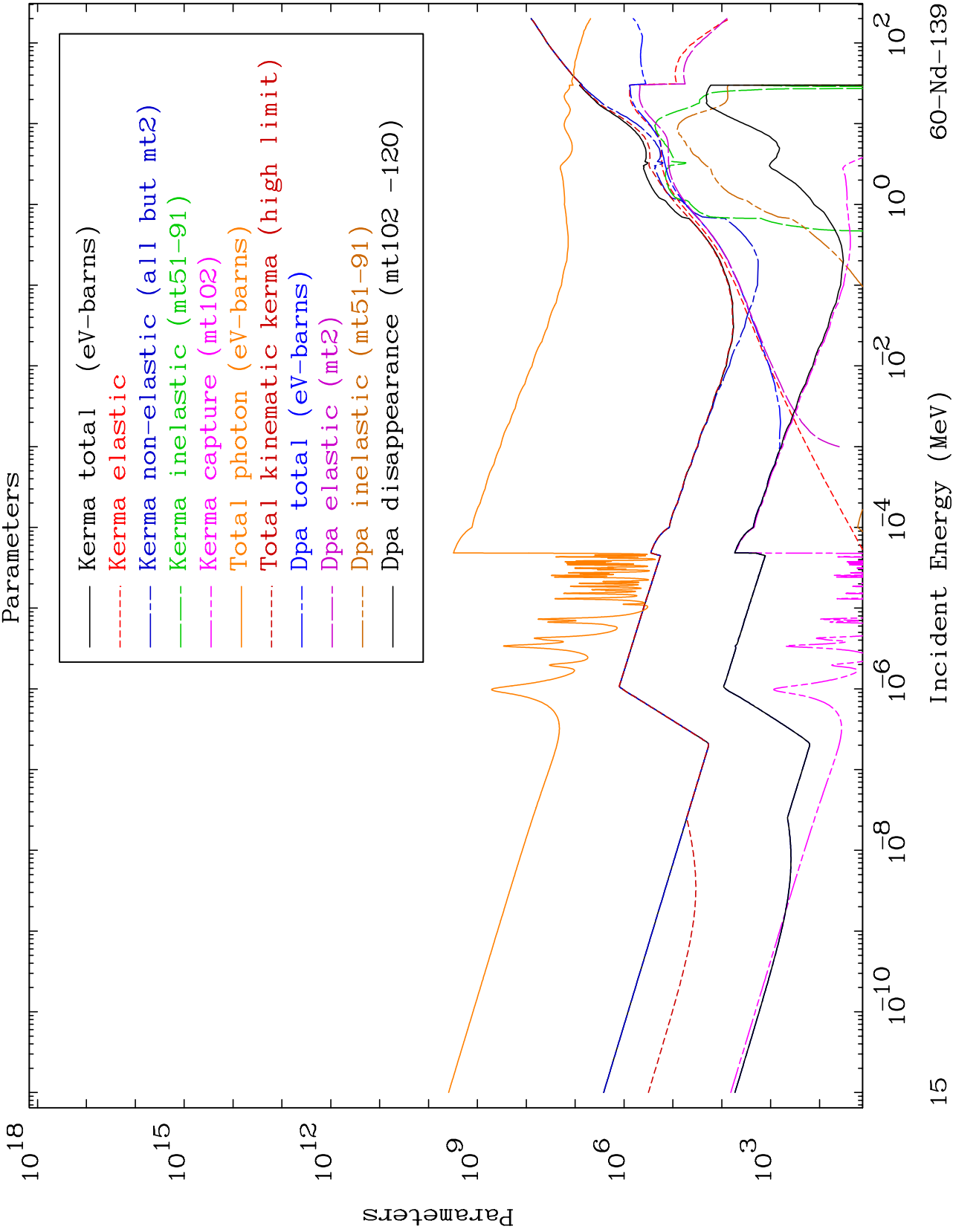
60-Nd-139

MAT 6017

(n,α) Levels  
293 Kelvin Cross Sections

60-Nd-139





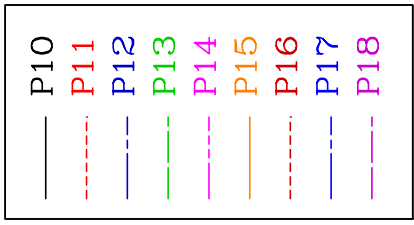
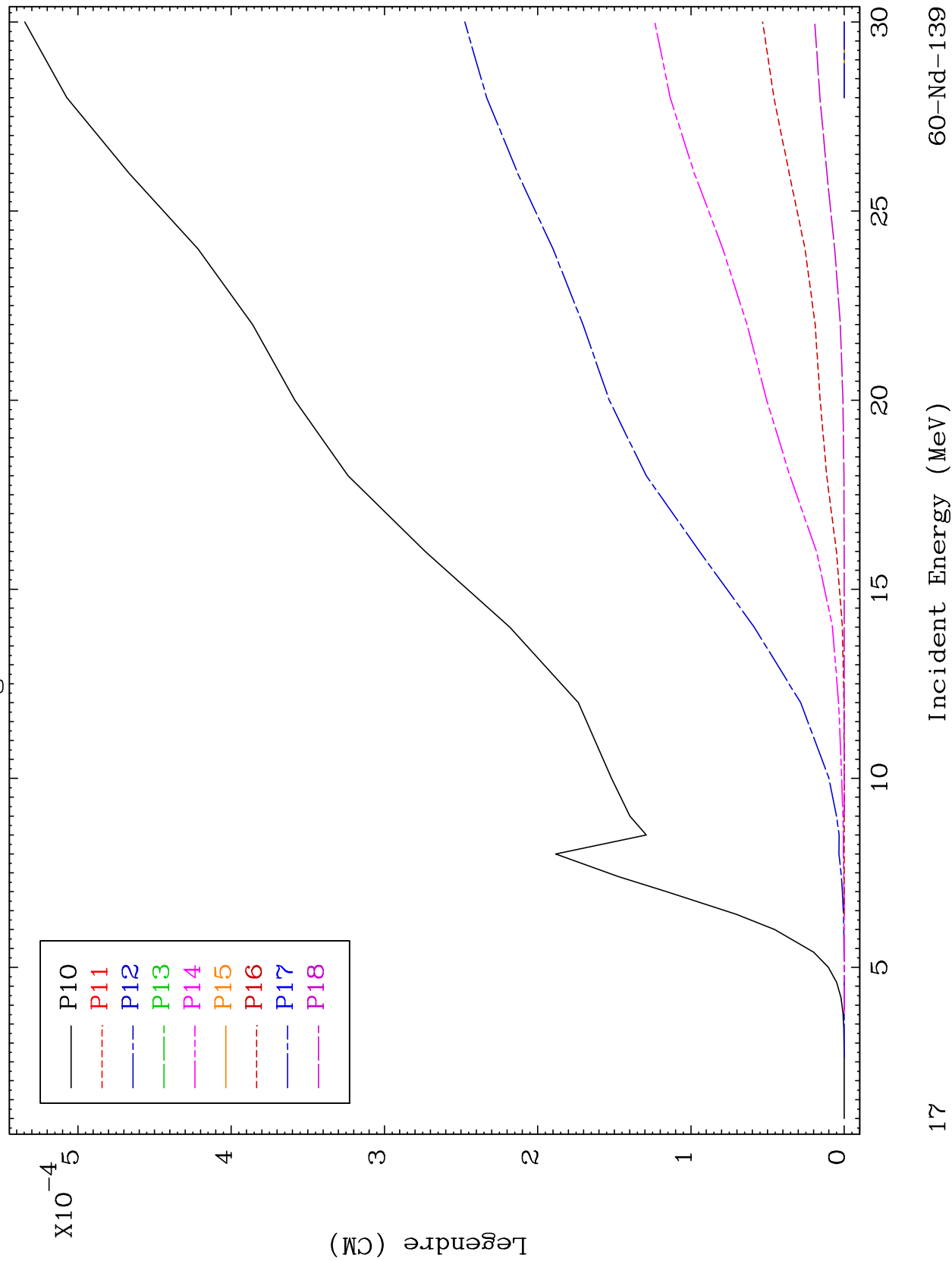




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Elastic Legendre Coefficients

<sup>60</sup>Nd-139

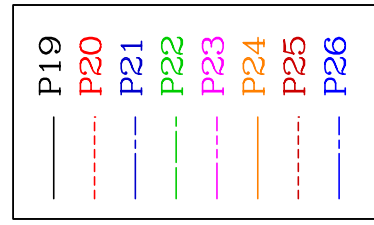


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Elastic  
Legendre Coefficients

60-Nd-139



$\times 10^{-6}$   
2.0  
1.5

Legendre (CM)

1.0  
0.5  
0.0

15

20

25

30

18

Incident Energy (MeV)

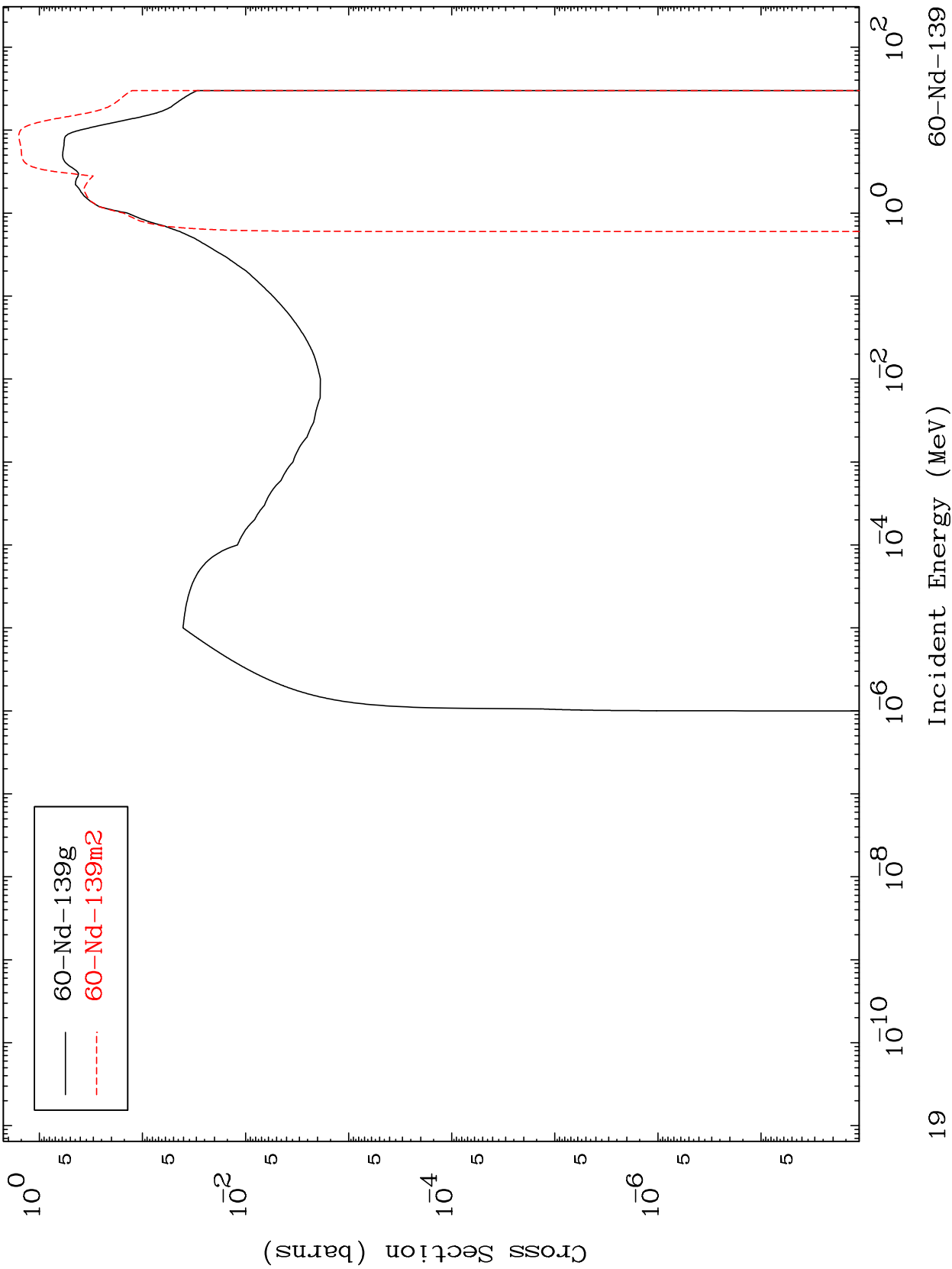
60-Nd-139



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Inelastic  
Radionuclide Production Cross Section

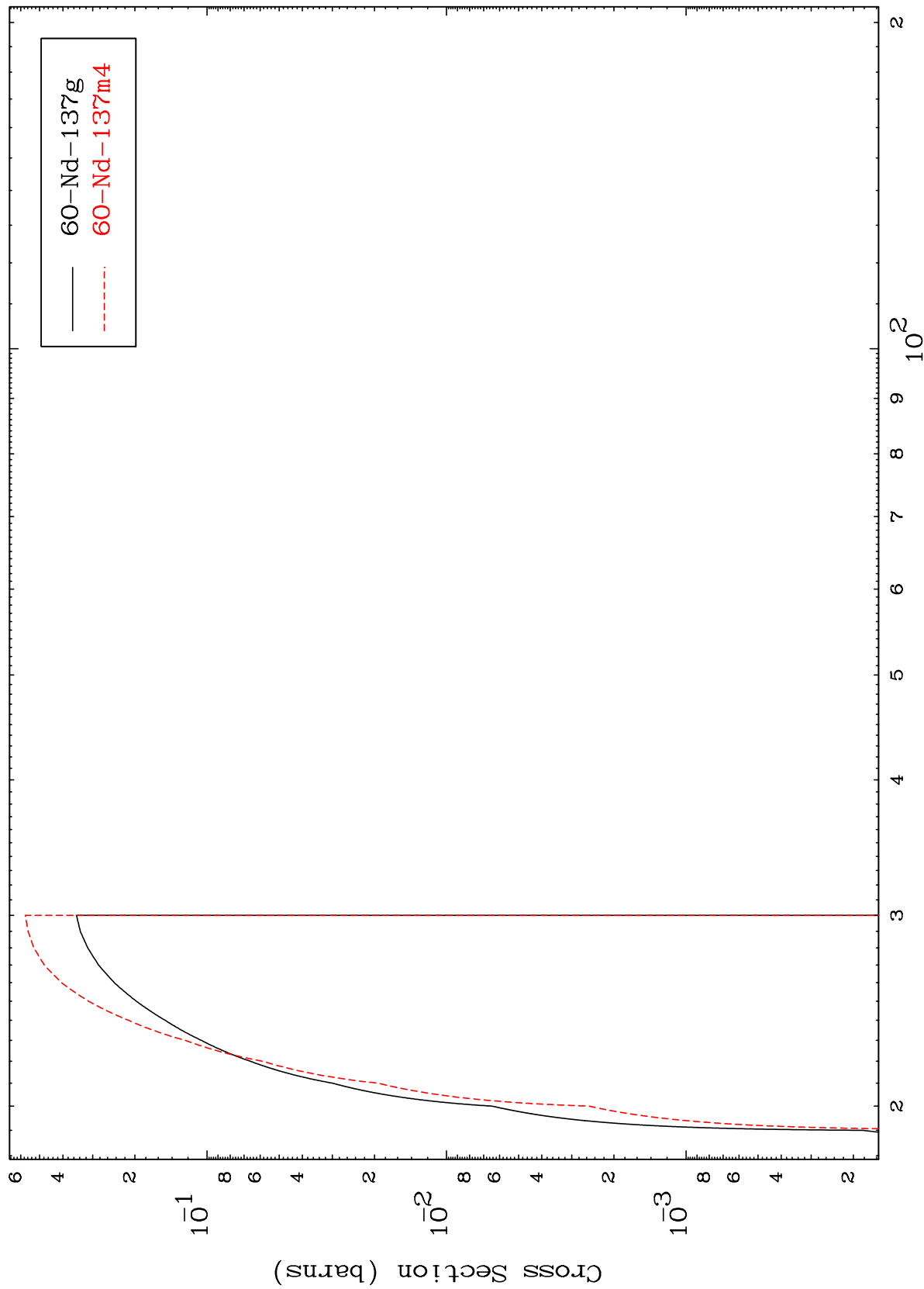
60-Nd-139



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60-Nd-139

(n,3n)  
Radionuclide Production Cross Section



60-Nd-139

Incident Energy (MeV)

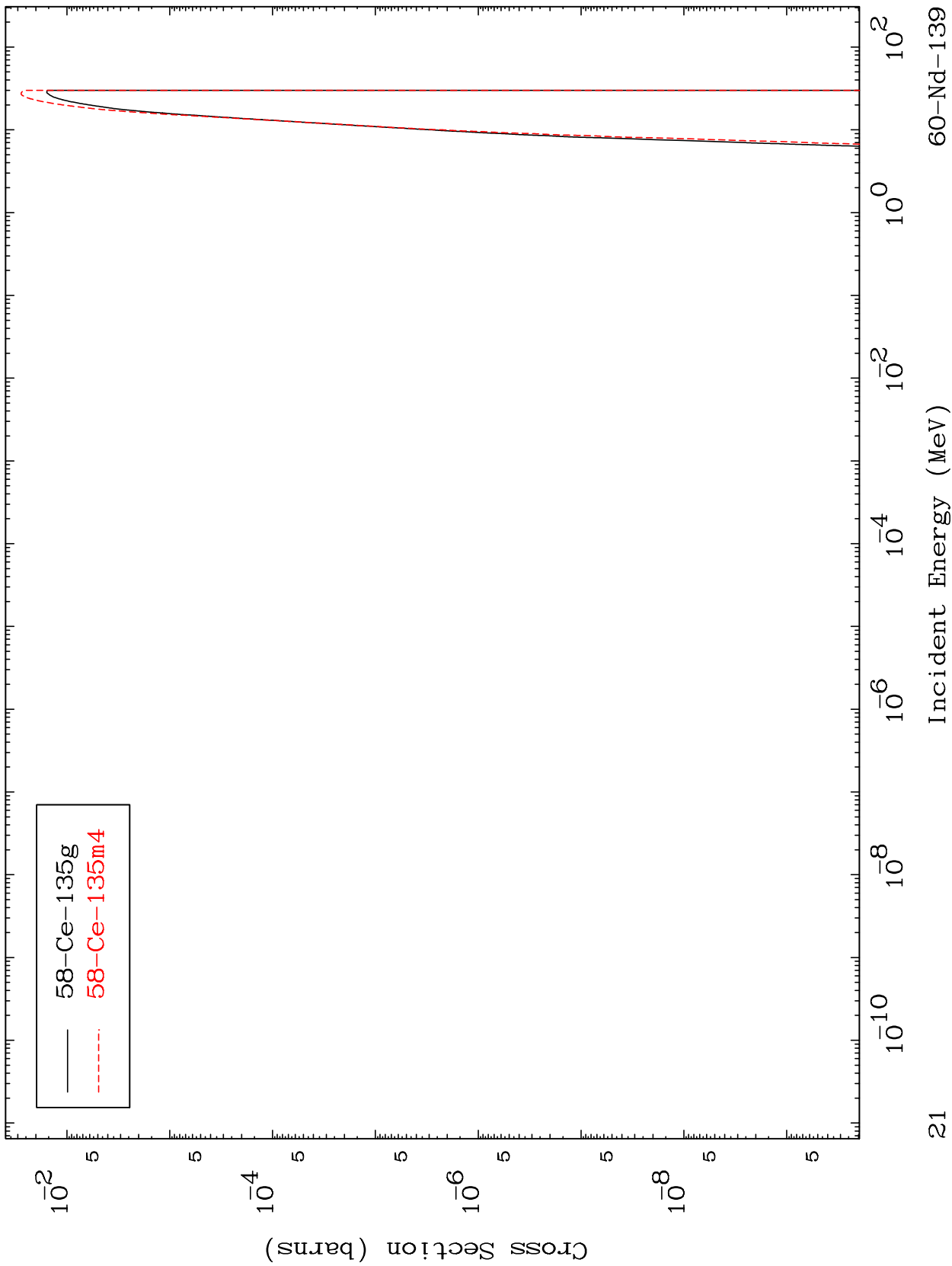
20

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$(n, n') \alpha$

60-Nd-139

Radionuclide Production Cross Section

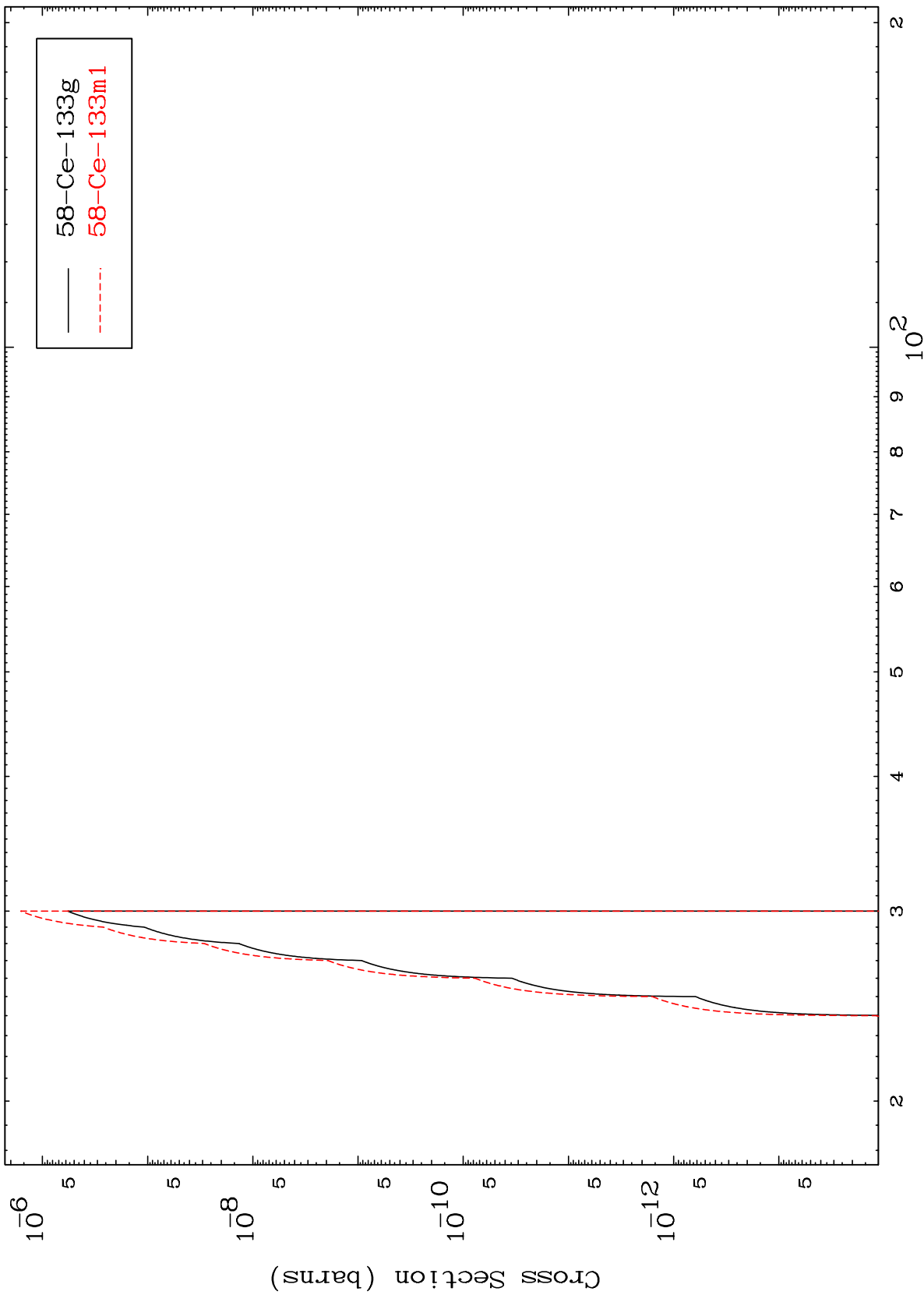


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(n,3n)  $\alpha$

60-Nd-139

Radionuclide Production Cross Section



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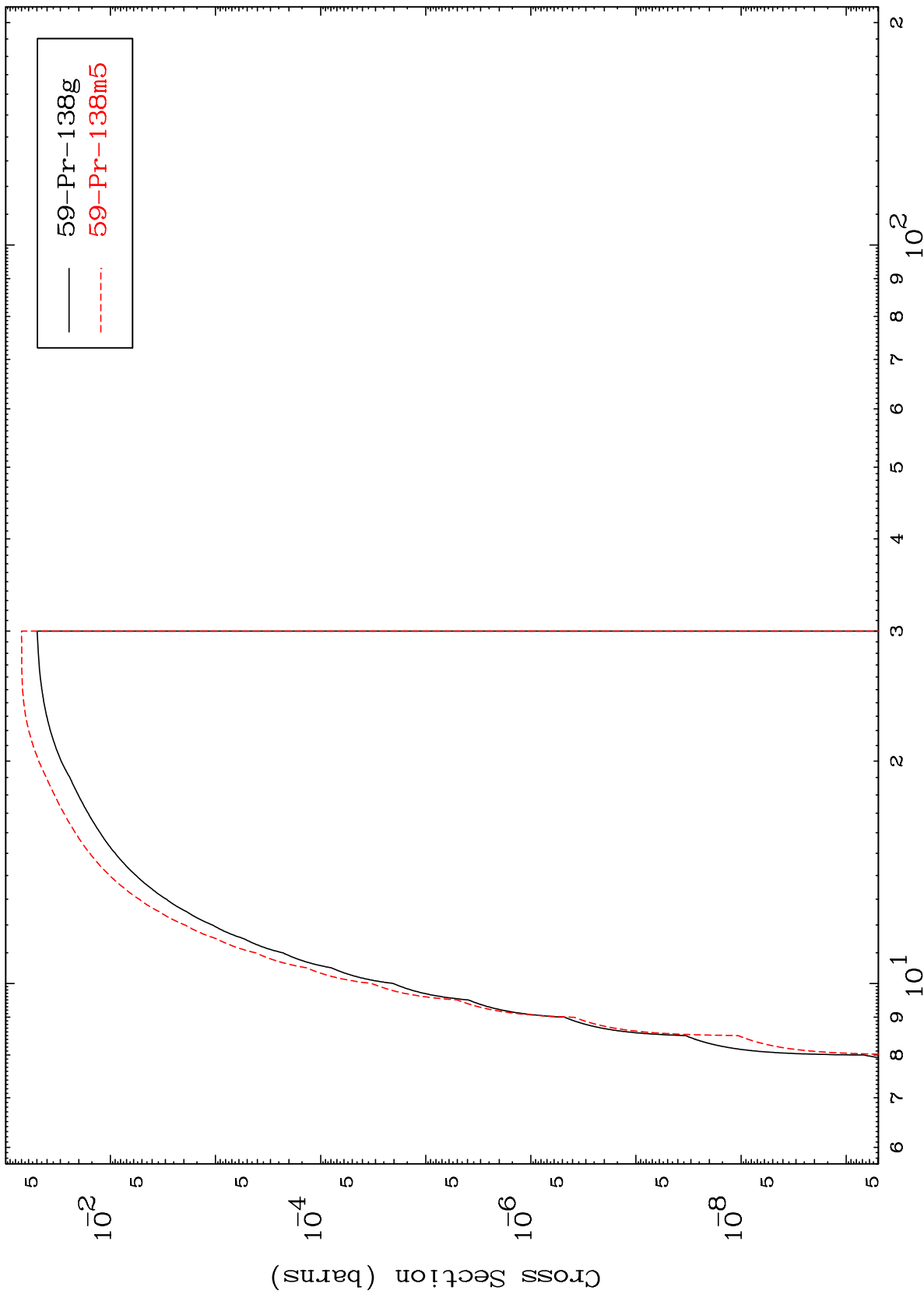
Incident Energy (MeV)

60-Nd-139

MAT 6017

60-Nd-139

$(n, n')$  p  
Radionuclide Production Cross Section



60-Nd-139

Incident Energy (MeV)

23

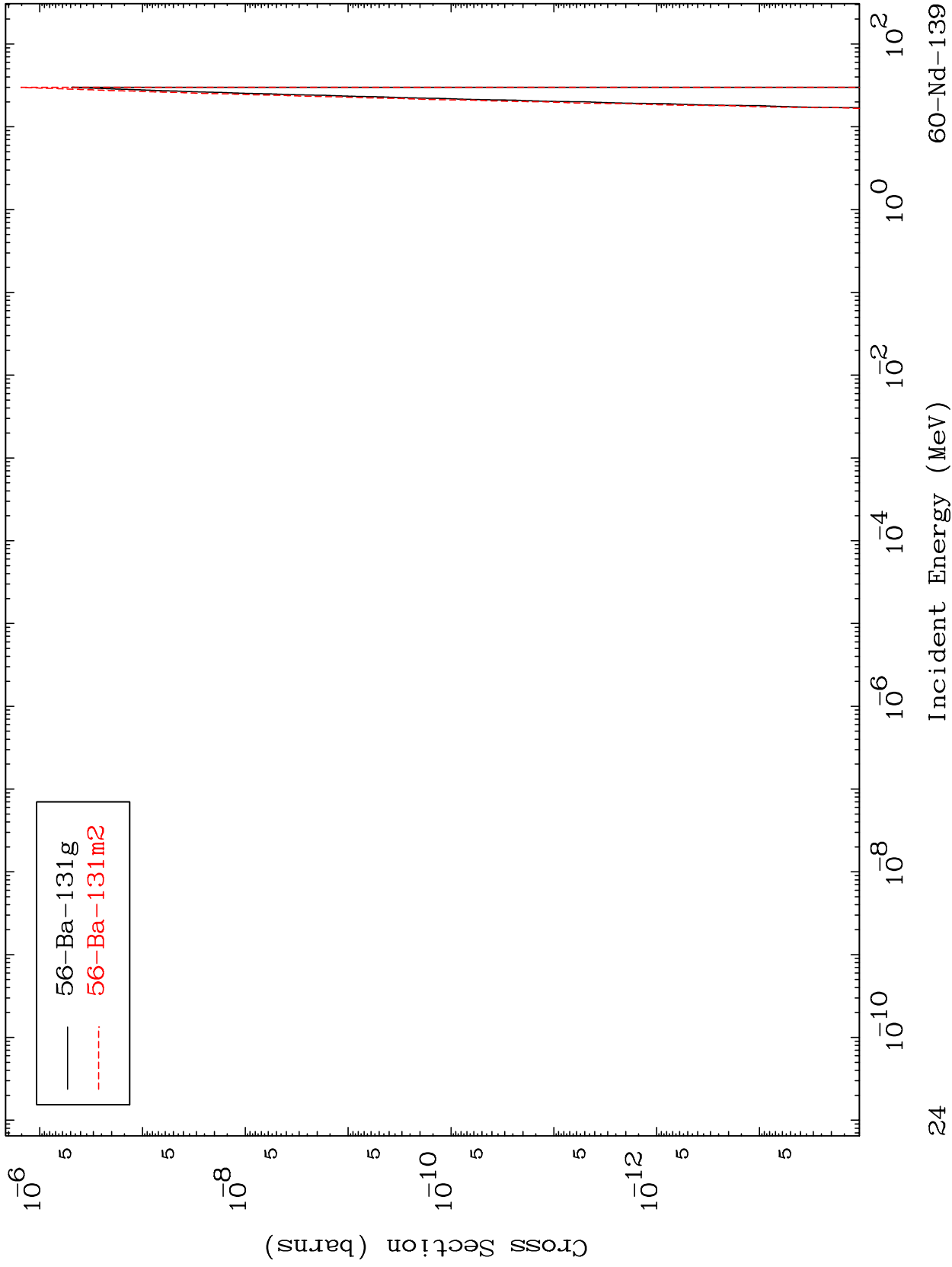


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(n,n') 2 $\alpha$

60-Nd-139

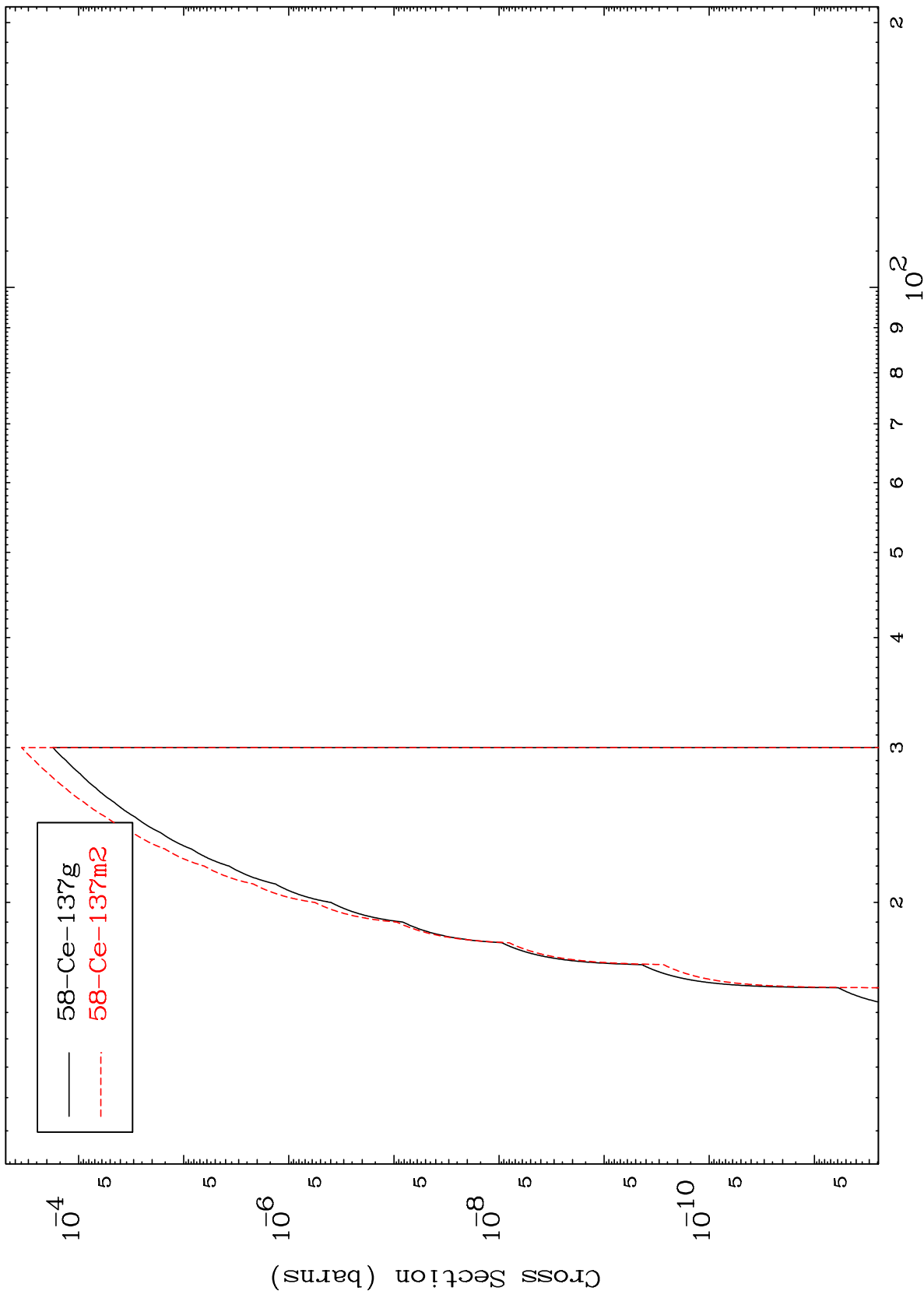
Radionuclide Production Cross Section



MAT 6017

60-Nd-139

(n,2n) p  
Radionuclide Production Cross Section



60-Nd-139

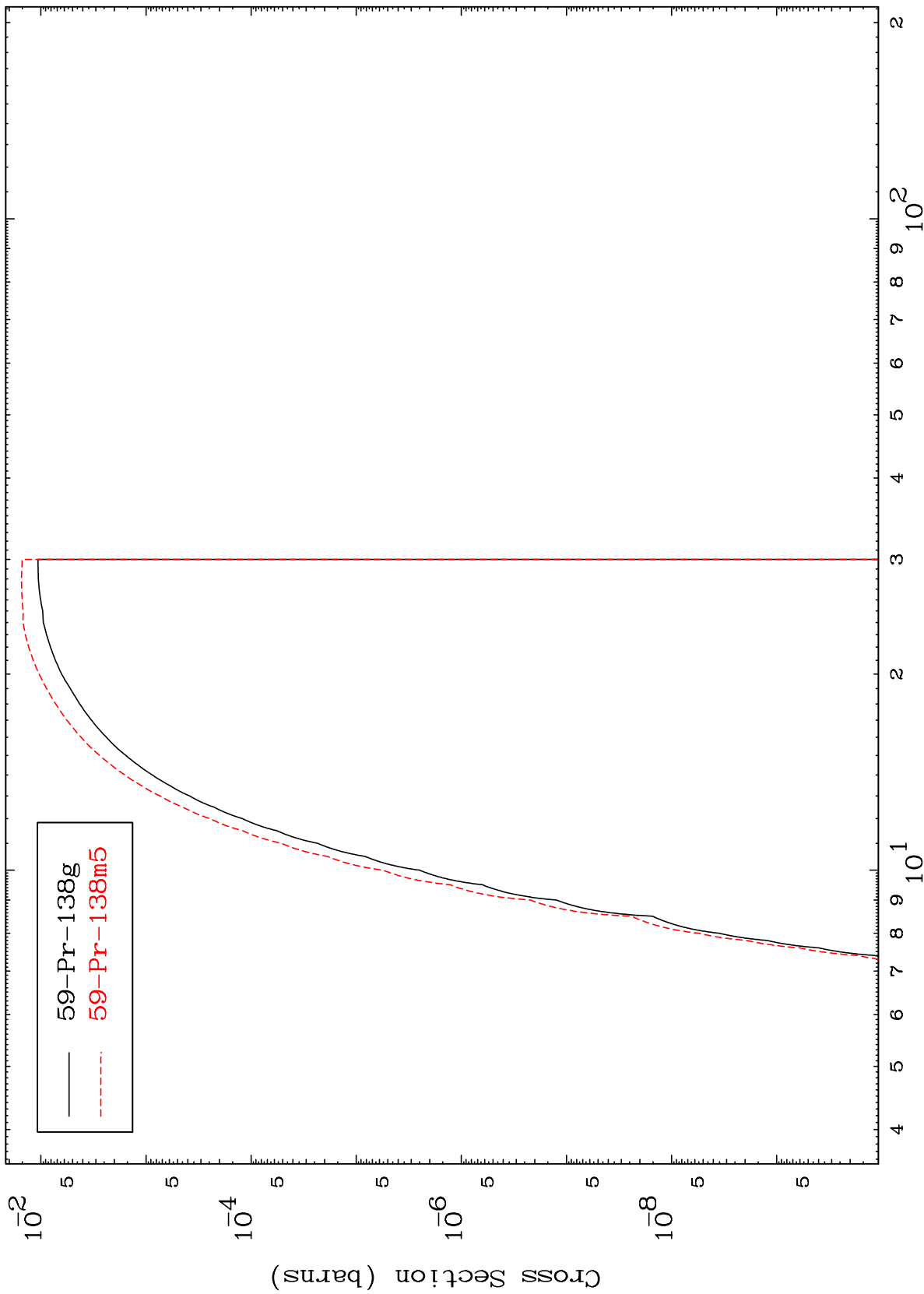
Incident Energy (MeV)

25

MAT 6017

60-Nd-139

(n,d)  
Radionuclide Production Cross Section



— 59-Pr-138g  
- - - 59-Pr-138m5

60-Nd-139

Incident Energy (MeV)

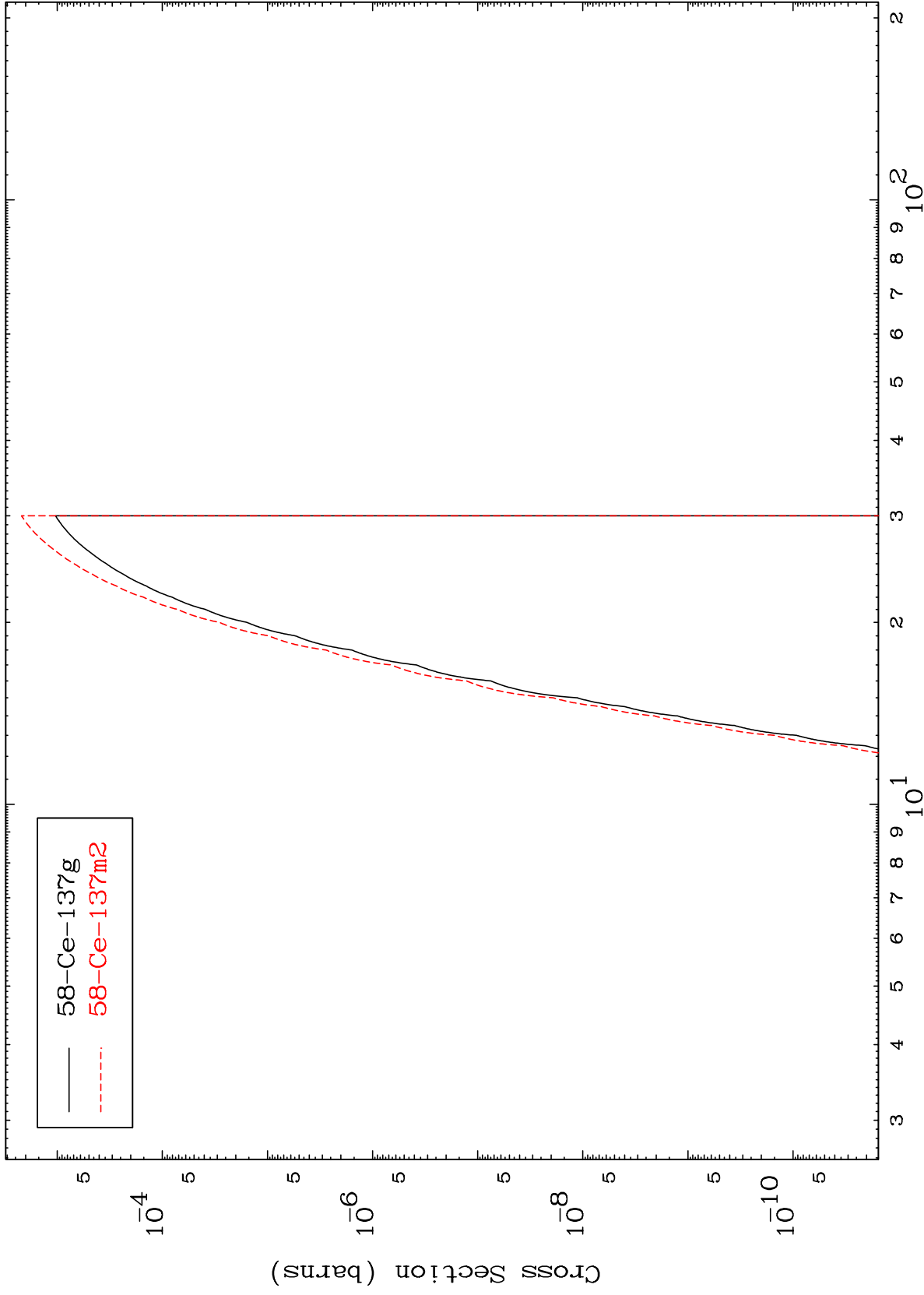
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(n,He-3)

60-Nd-139

Radionuclide Production Cross Section



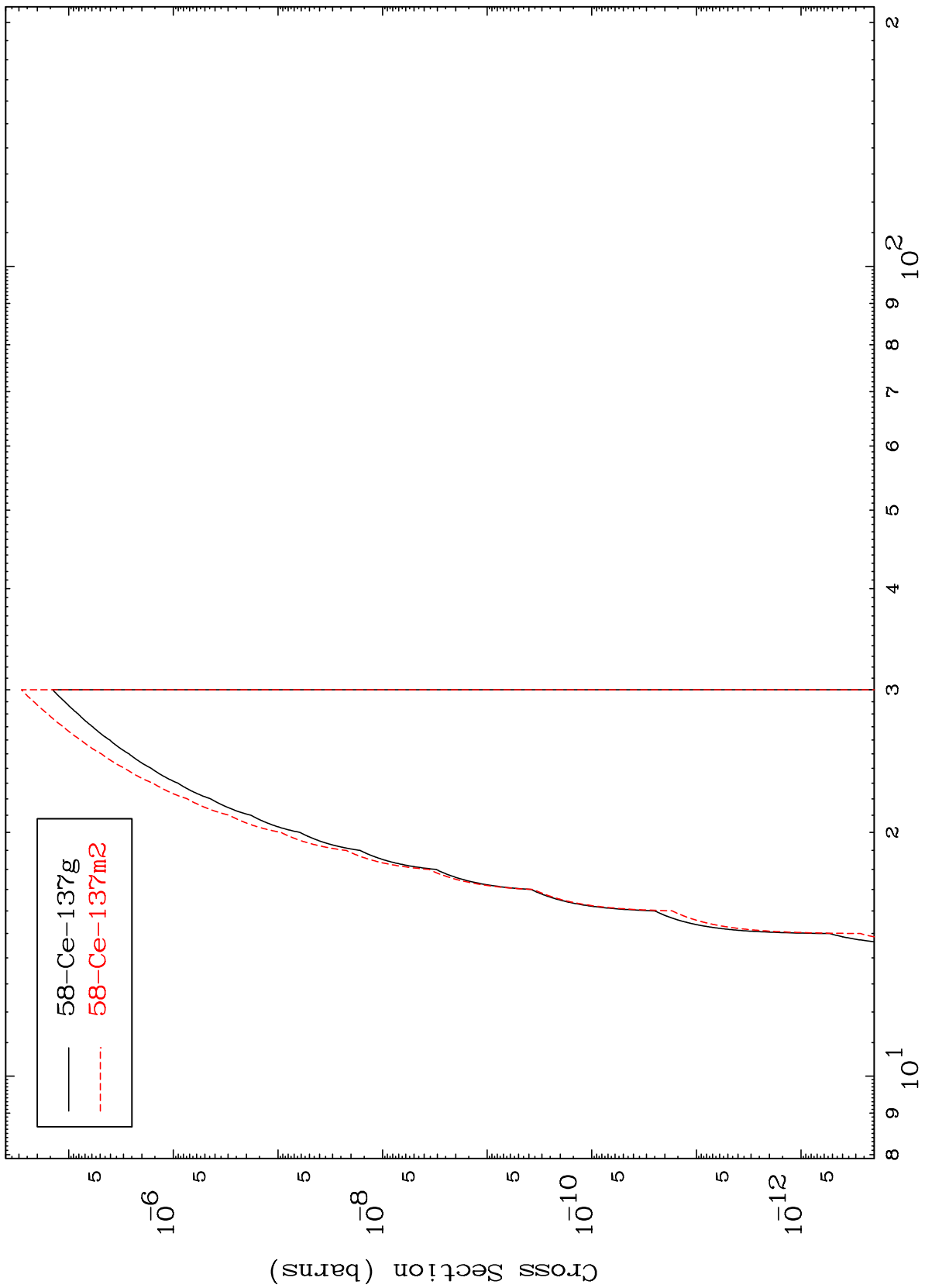
58-Ce-137g  
58-Ce-137m2

MAT 6017

(n,p) d

60-Nd-139

Radionuclide Production Cross Section



28

Incident Energy (MeV)

60-Nd-139