

Program EVALPLOT
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

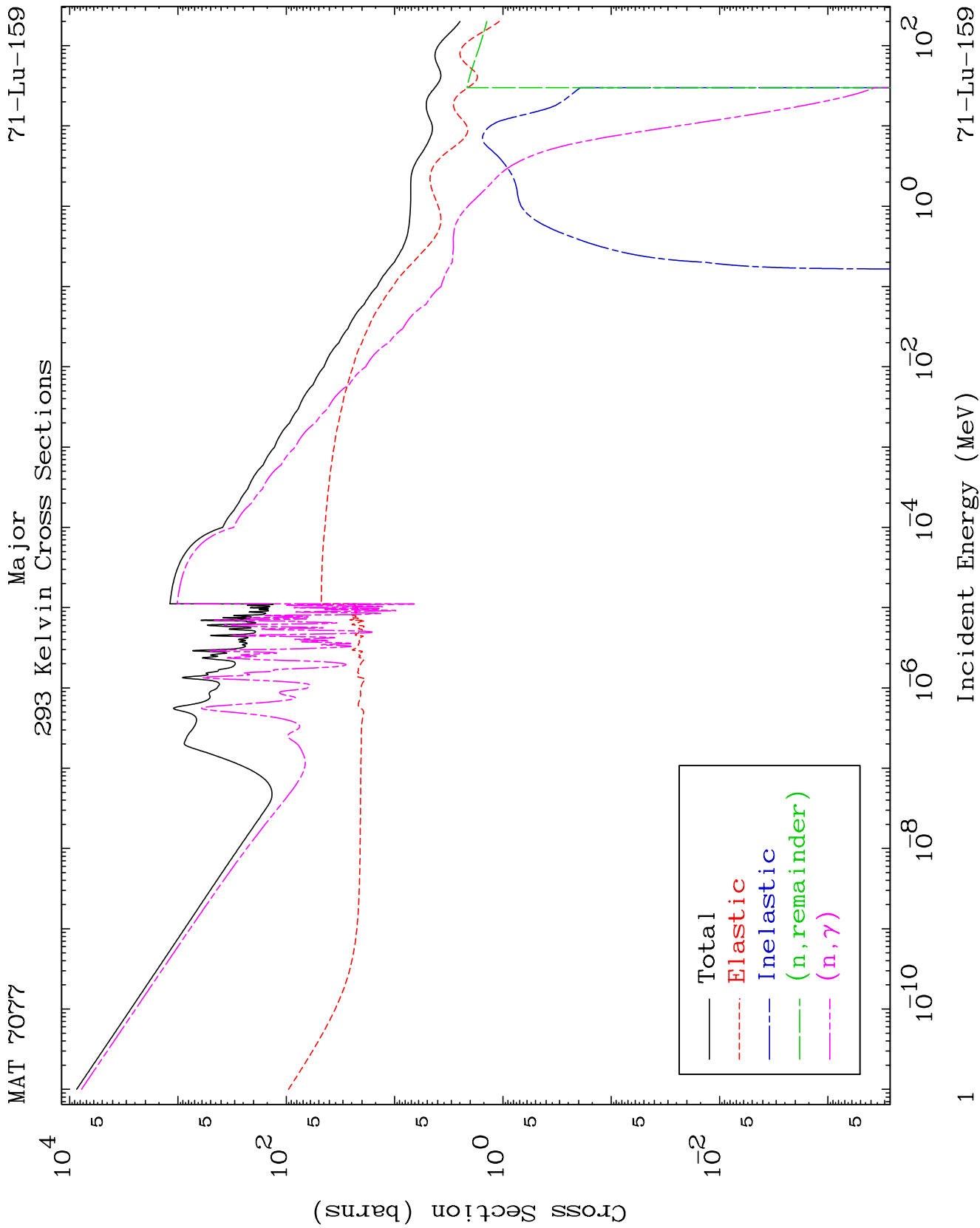
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E.Mail:redcullen1@comcast.net

Web:redcullen1.net/HOMEPAGE.NEW

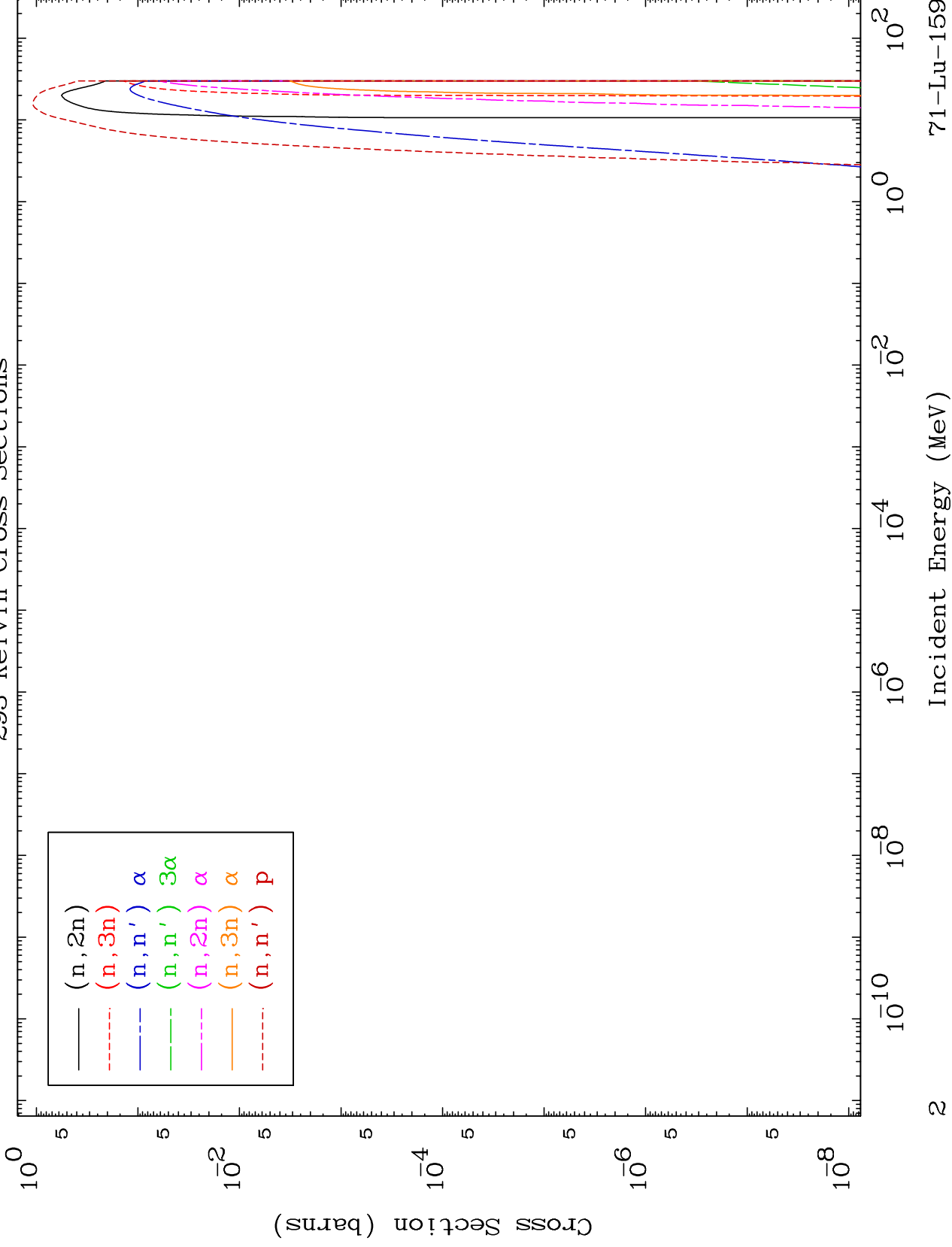
Press Mouse Button to Start



MAT 7077

Neutron Production
293 Kelvin Cross Sections

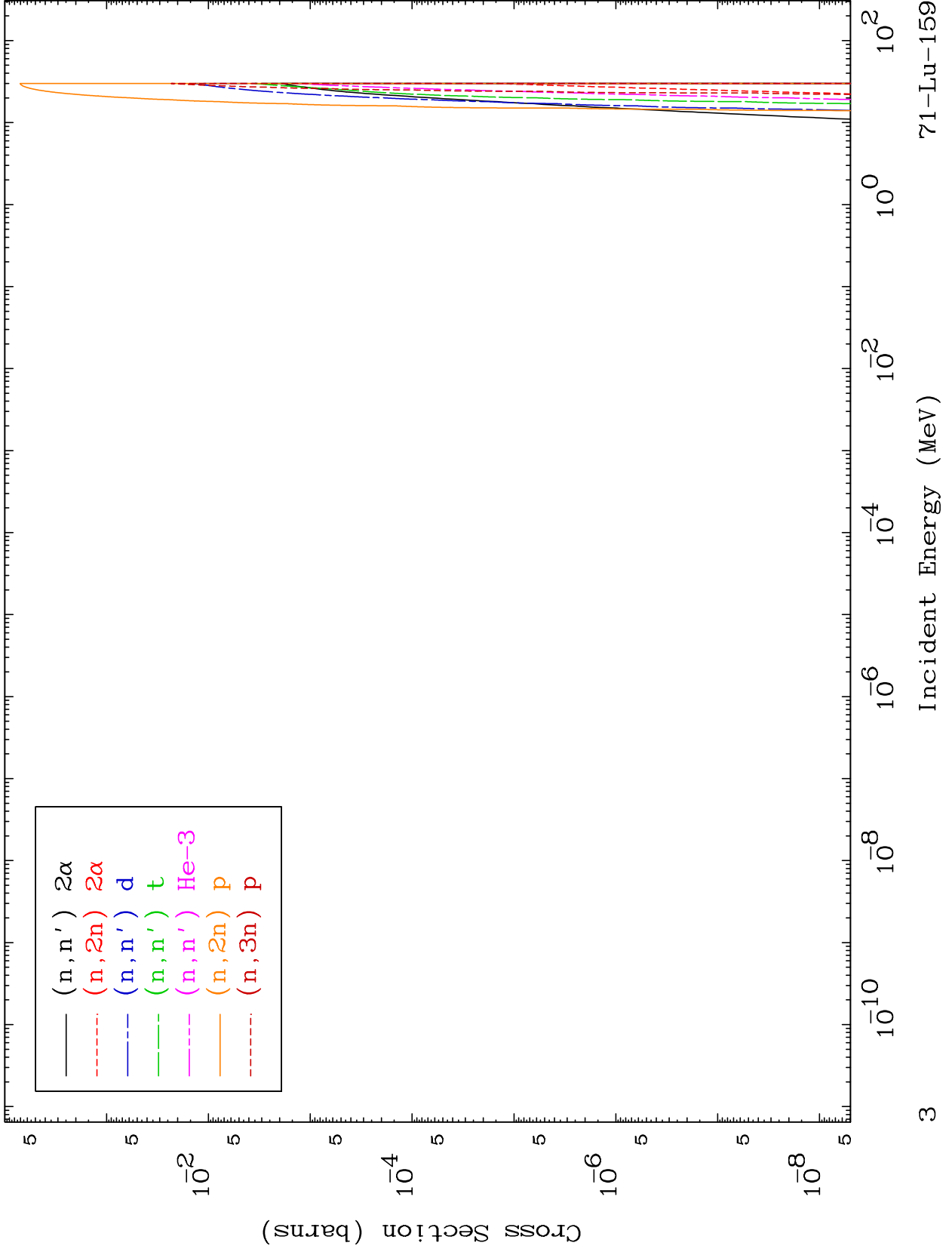
71-Lu-159



MAT 7077

Neutron Production
293 Kelvin Cross Sections

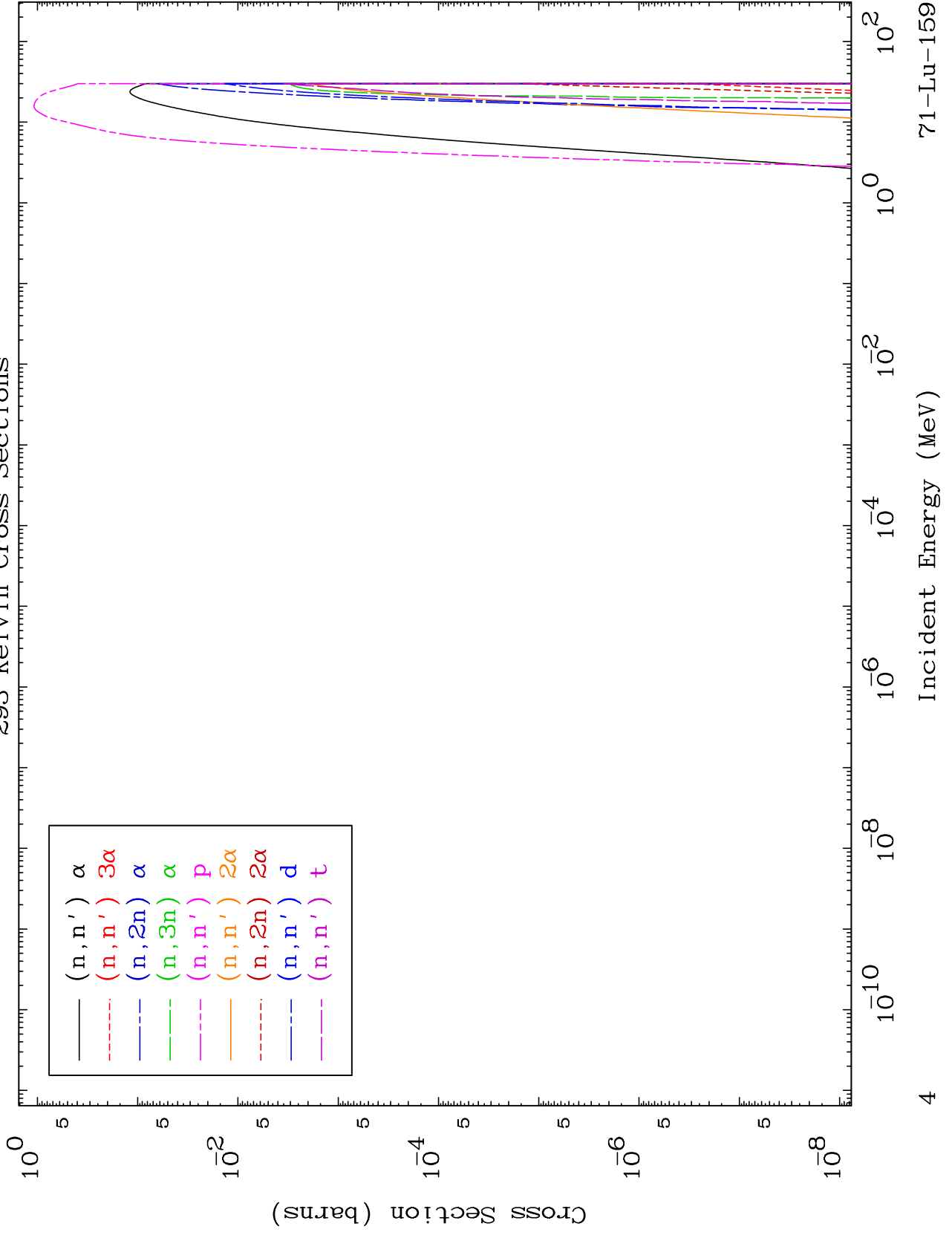
71-Lu-159



MAT 70777

Charged Particle
293 Kelvin Cross Sections

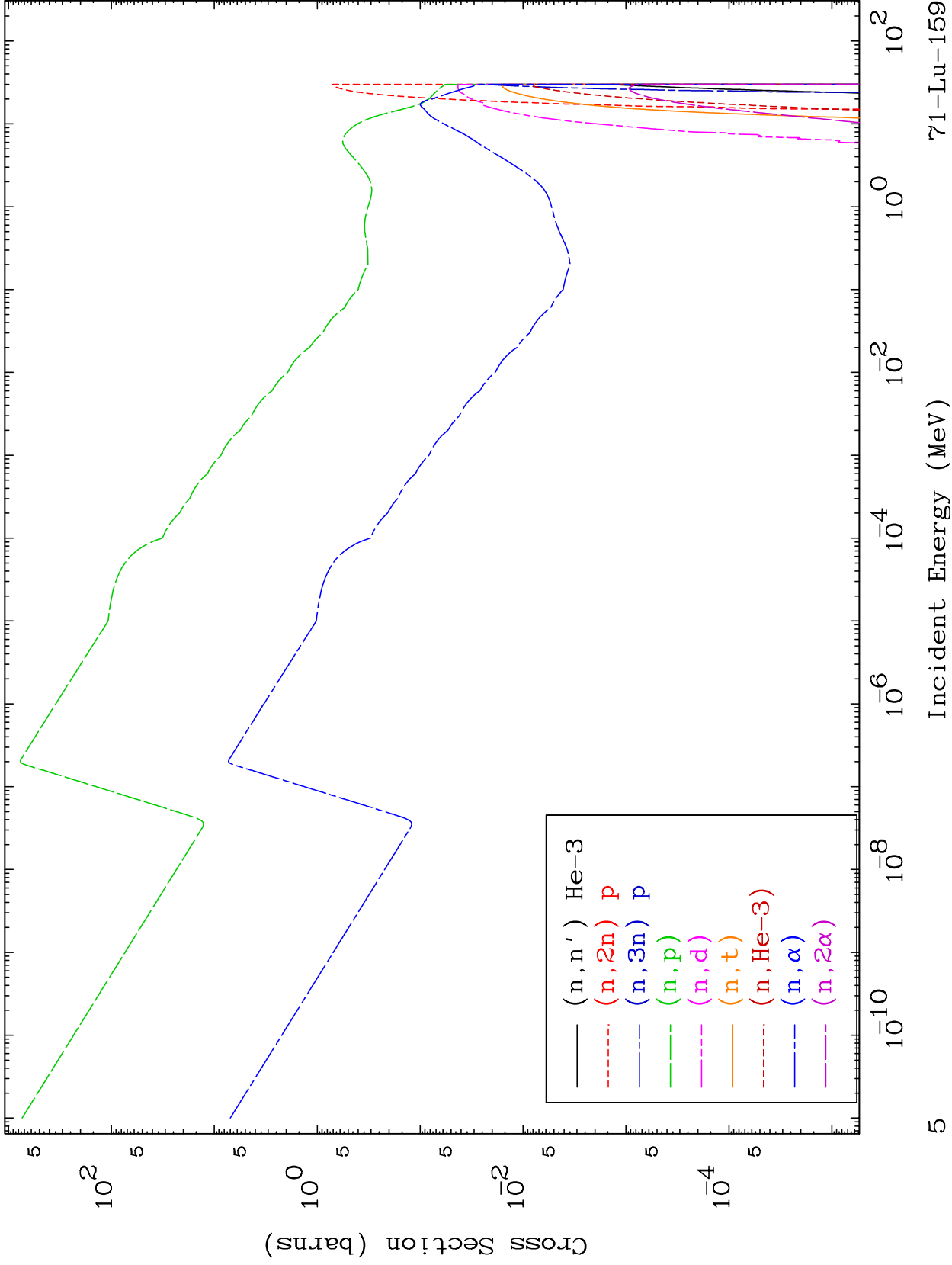
71-Lu-159



MAT 70777

Charged Particle
293 Kelvin Cross Sections

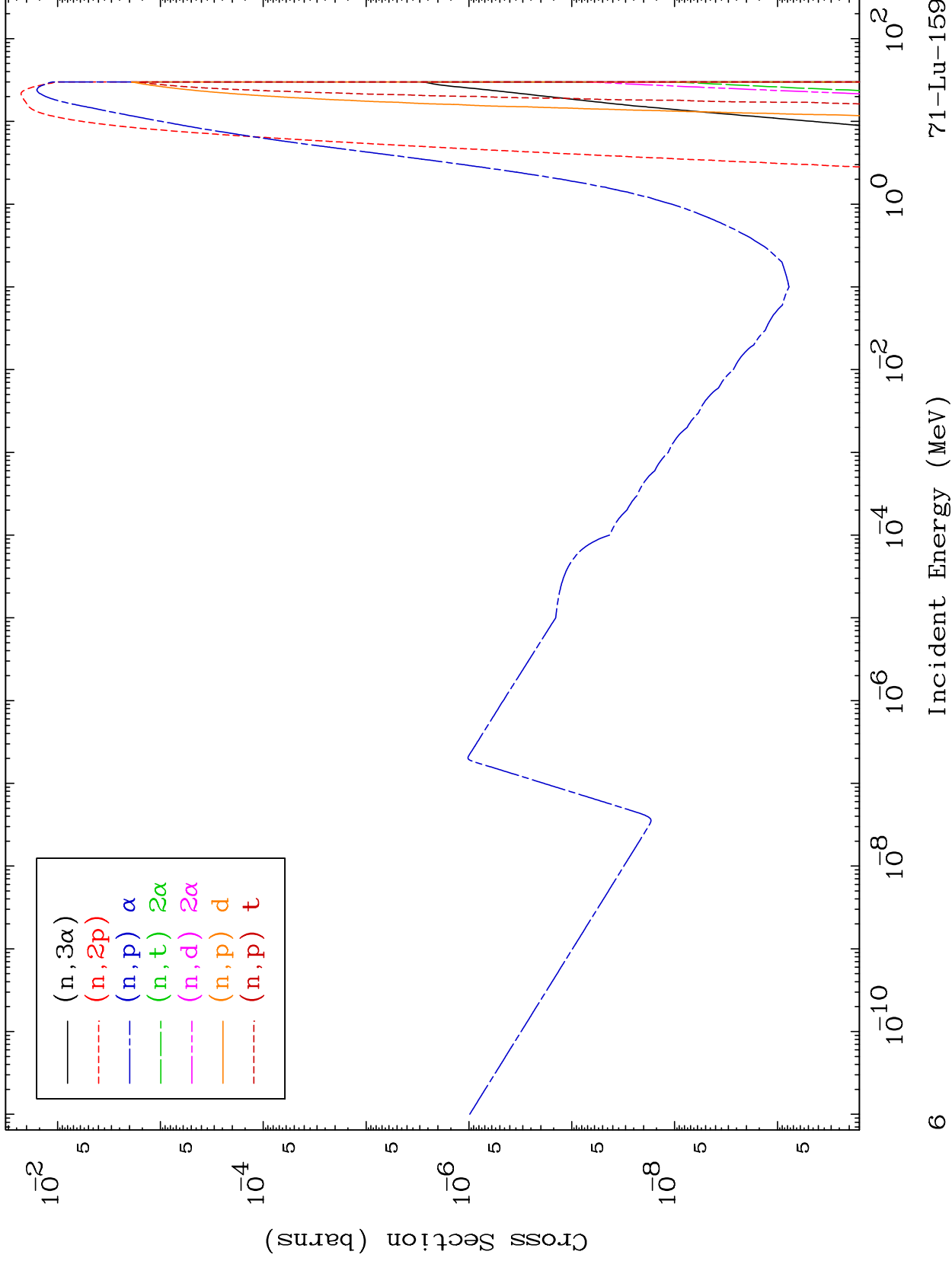
71-Lu-159

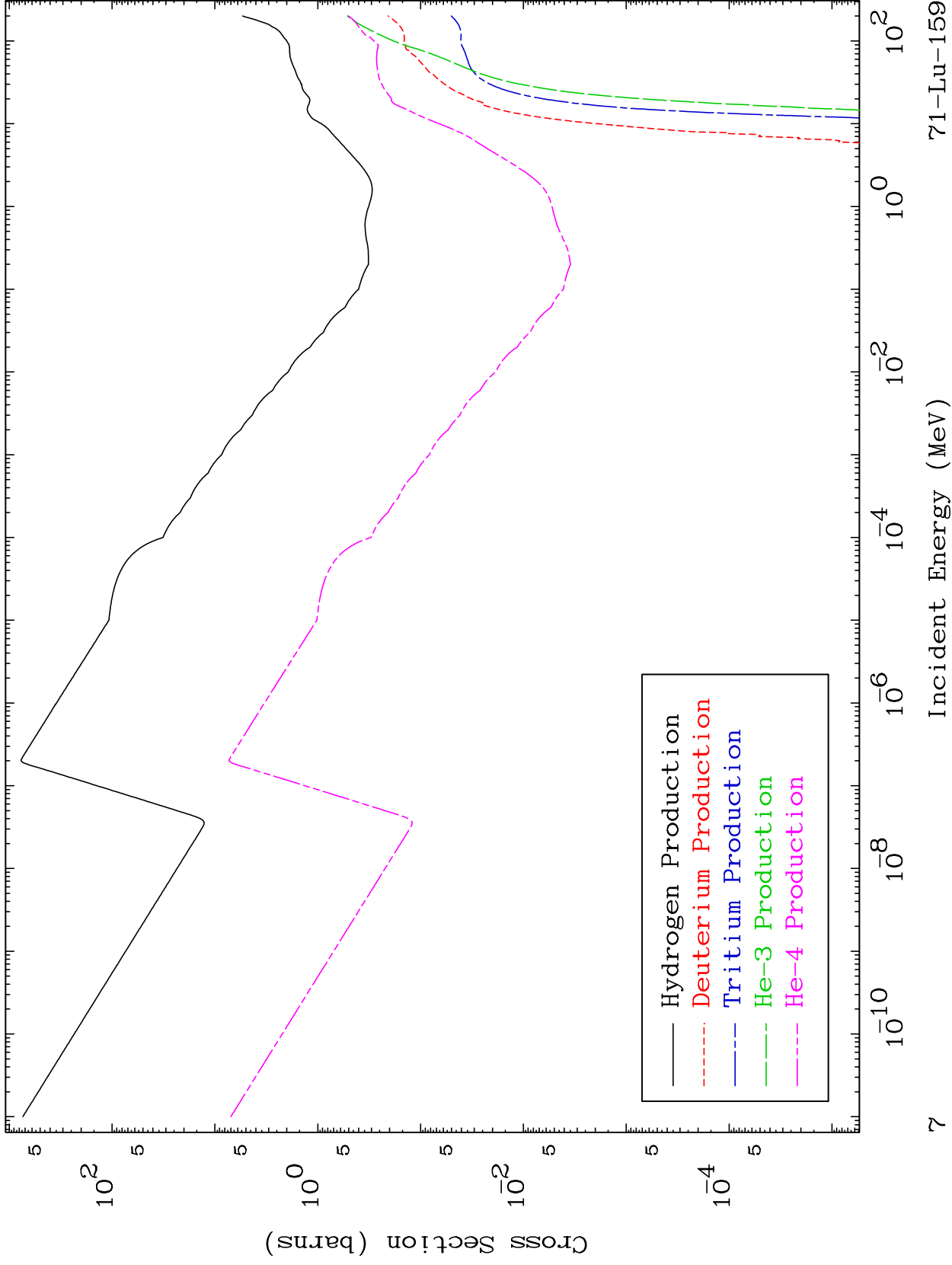


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Charged Particle
293 Kelvin Cross Sections

71-Lu-159

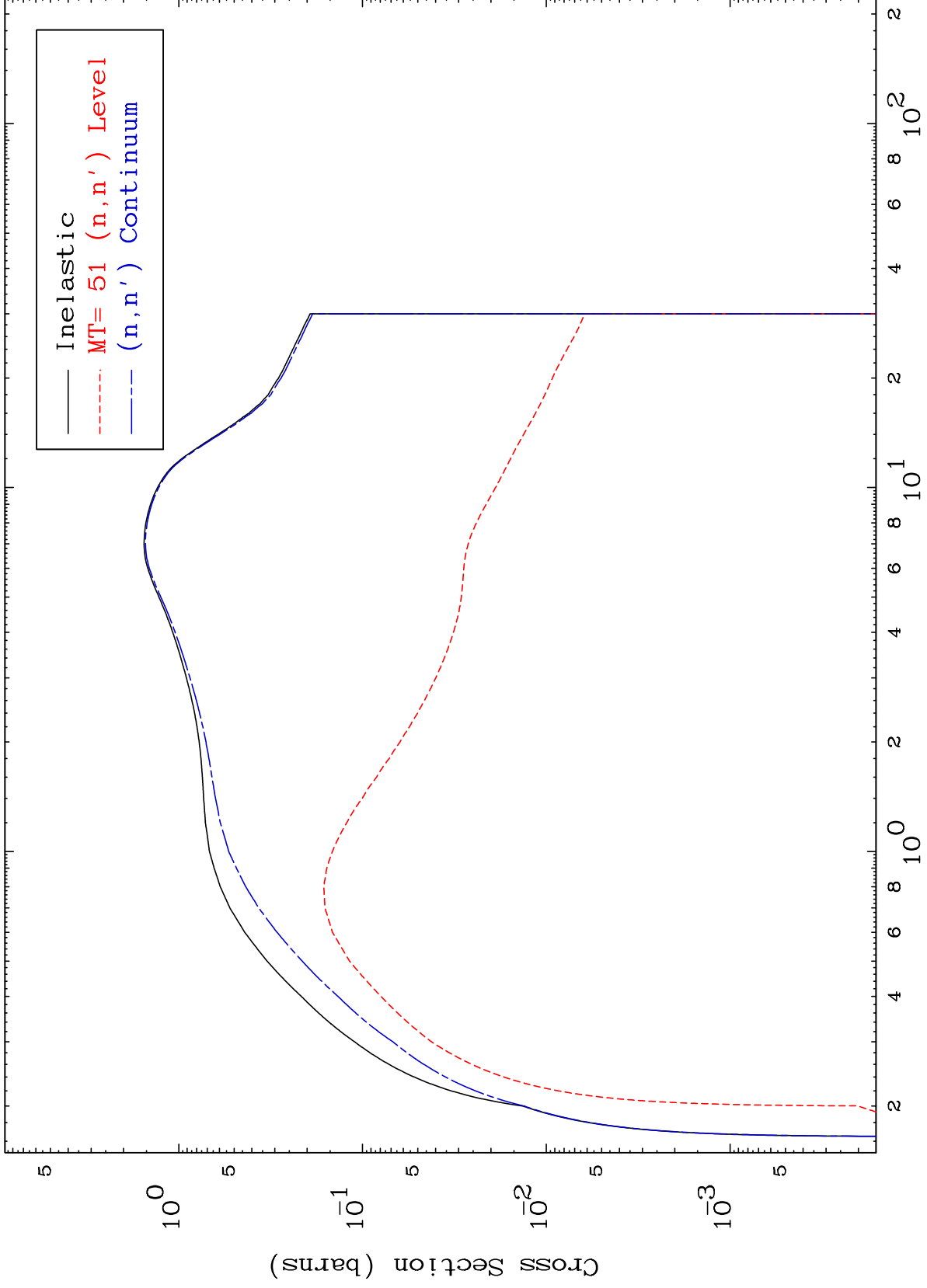




MAT 7077

(n,n') Level
293 Kelvin Cross Sections

71-Lu-159



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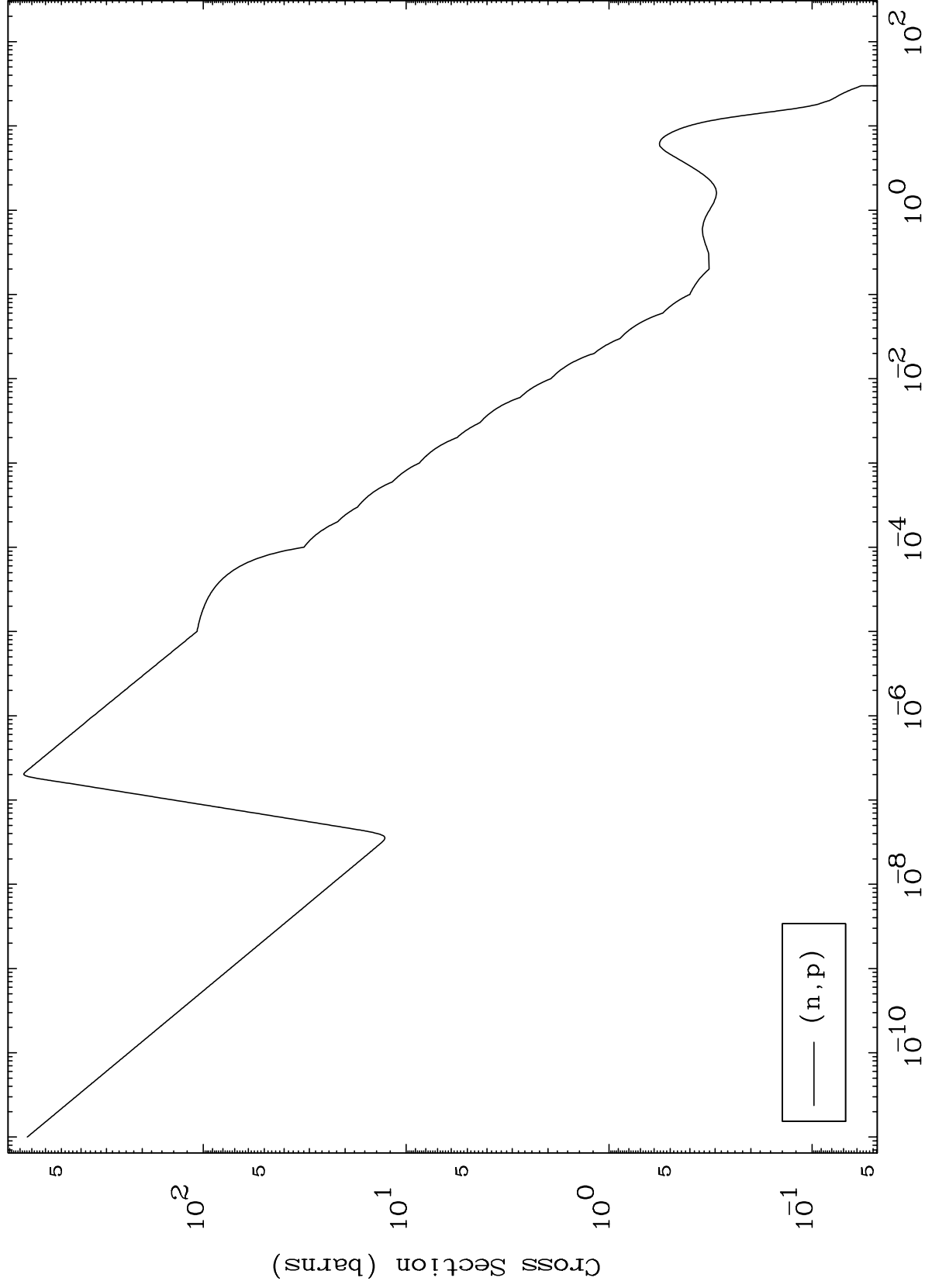
Incident Energy (MeV)

71-Lu-159

MAT 70777

(n,p) Levels
293 Kelvin Cross Sections

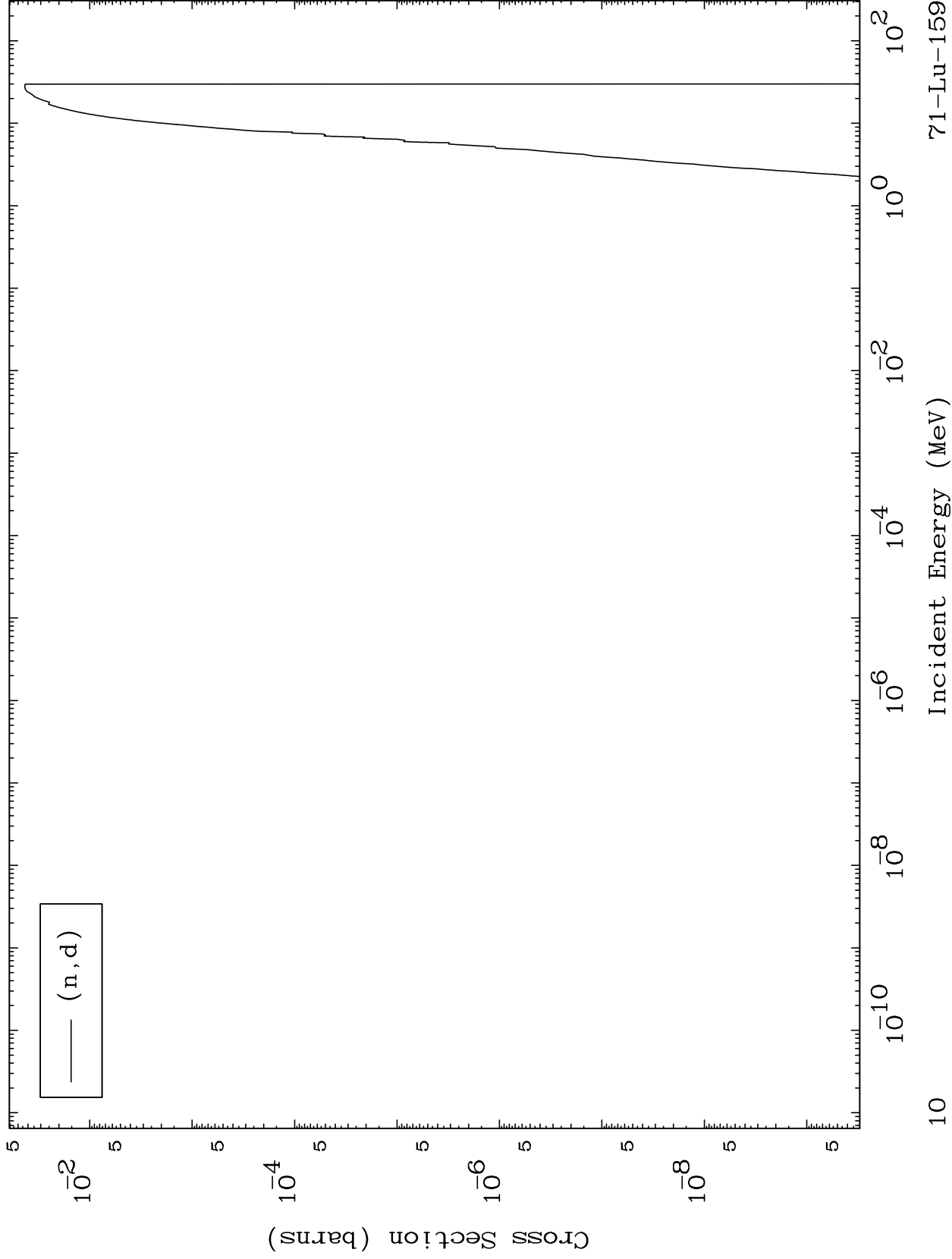
71-Lu-159



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(n,d) Levels
293 Kelvin Cross Sections

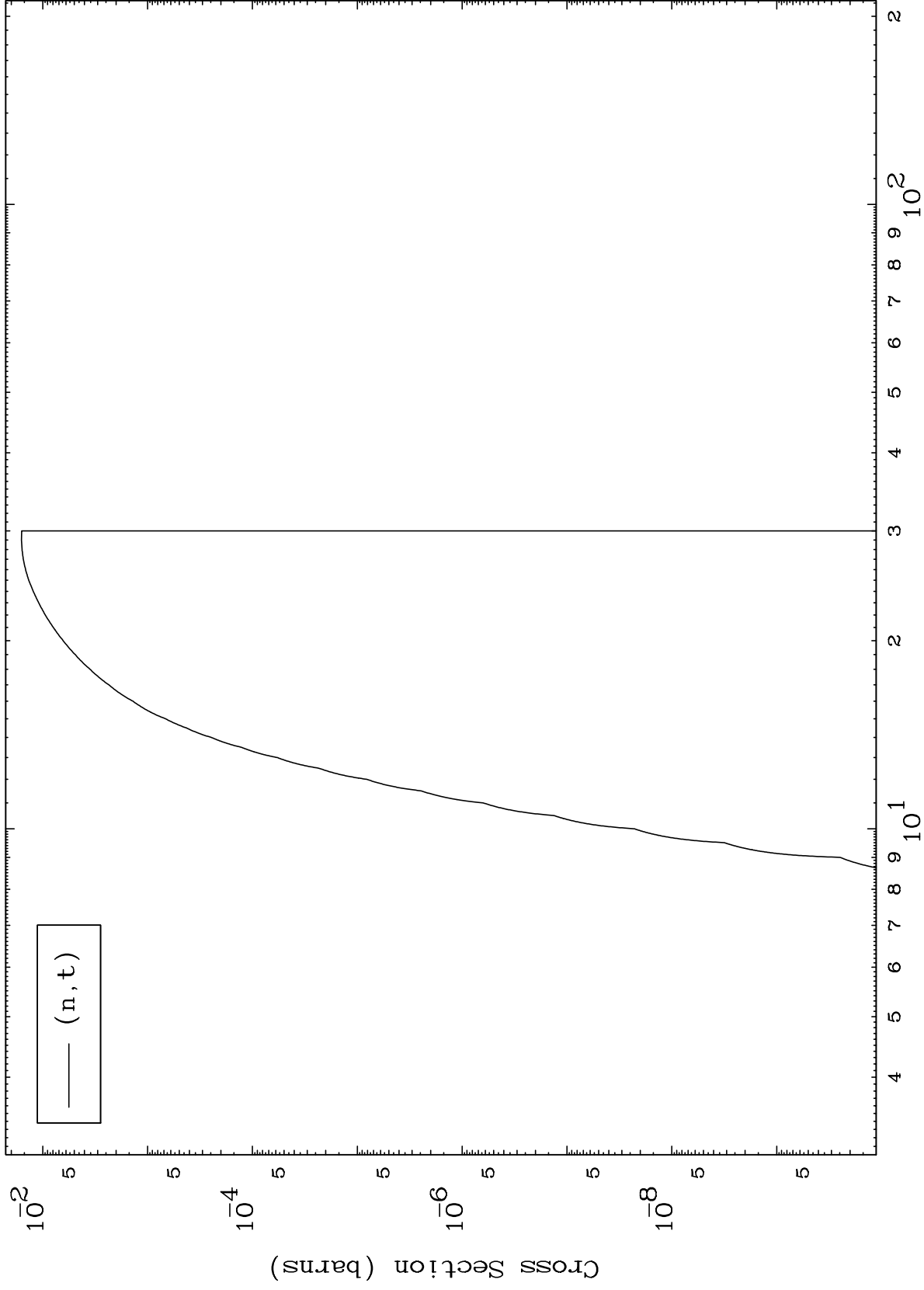
71-Lu-159



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(n,t) Levels
293 Kelvin Cross Sections

71-Lu-159



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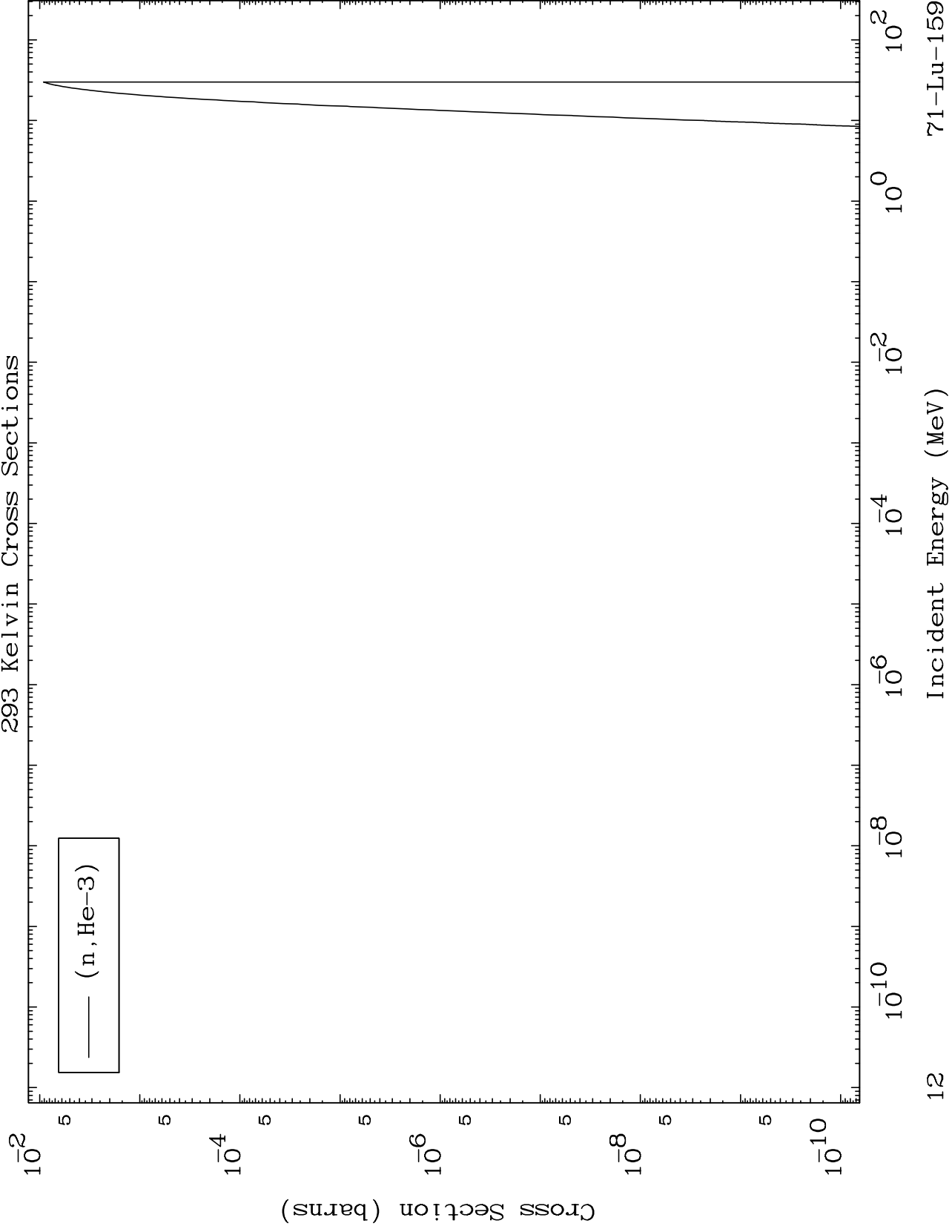
Incident Energy (MeV)

71-Lu-159

MAT 7077

(n,He3) Levels
293 Kelvin Cross Sections

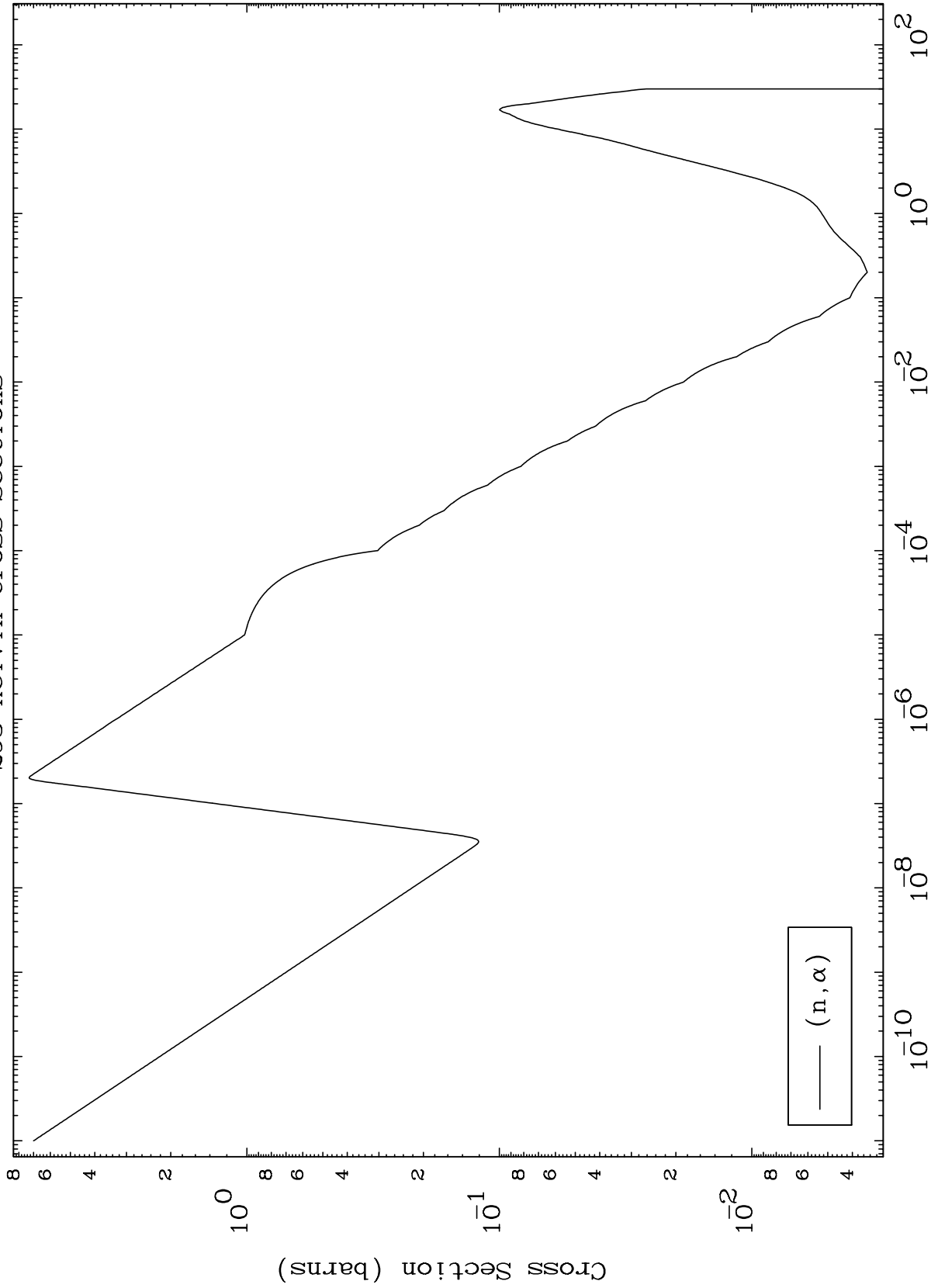
71-Lu-159



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(n,α) Levels
293 Kelvin Cross Sections

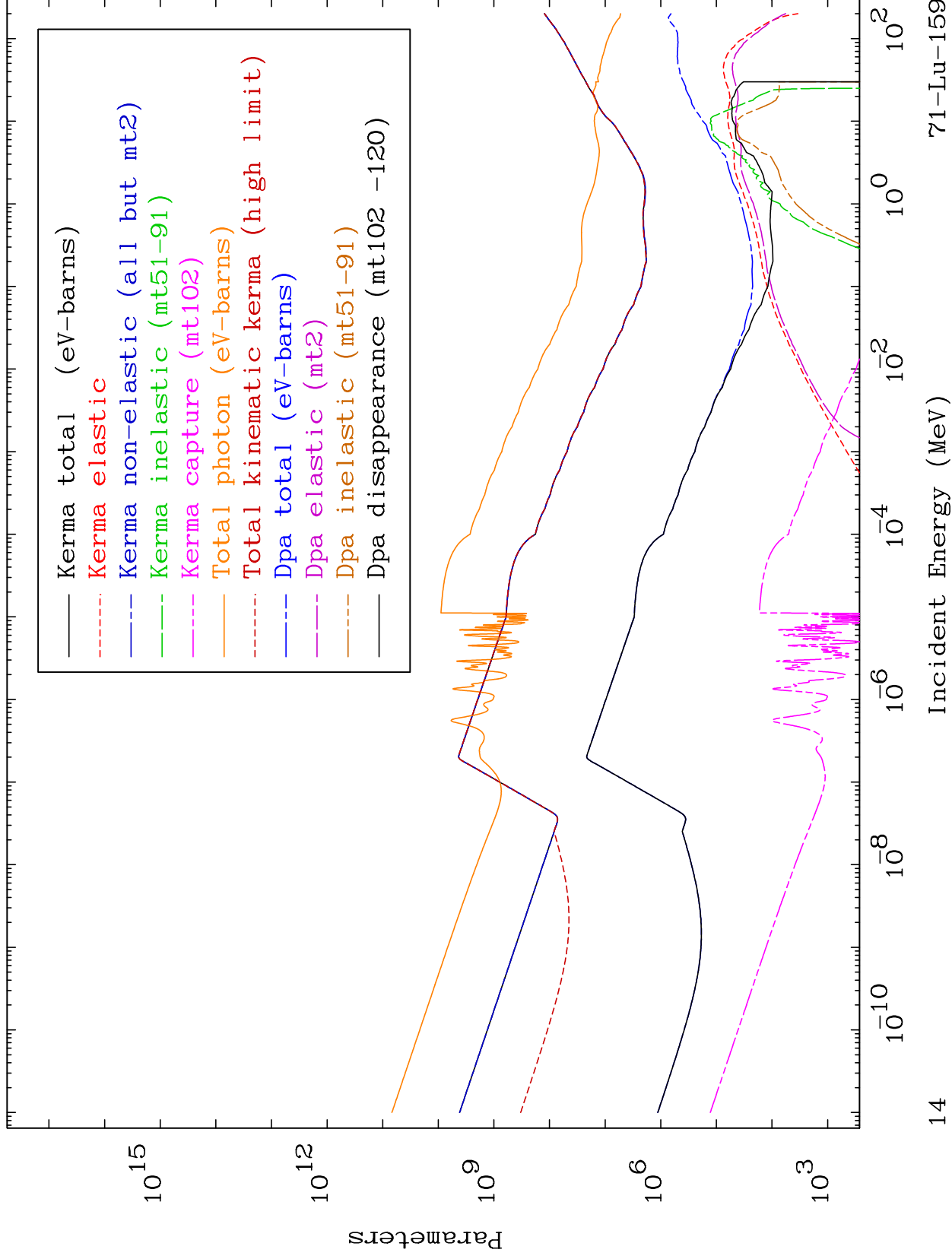
71-Lu-159

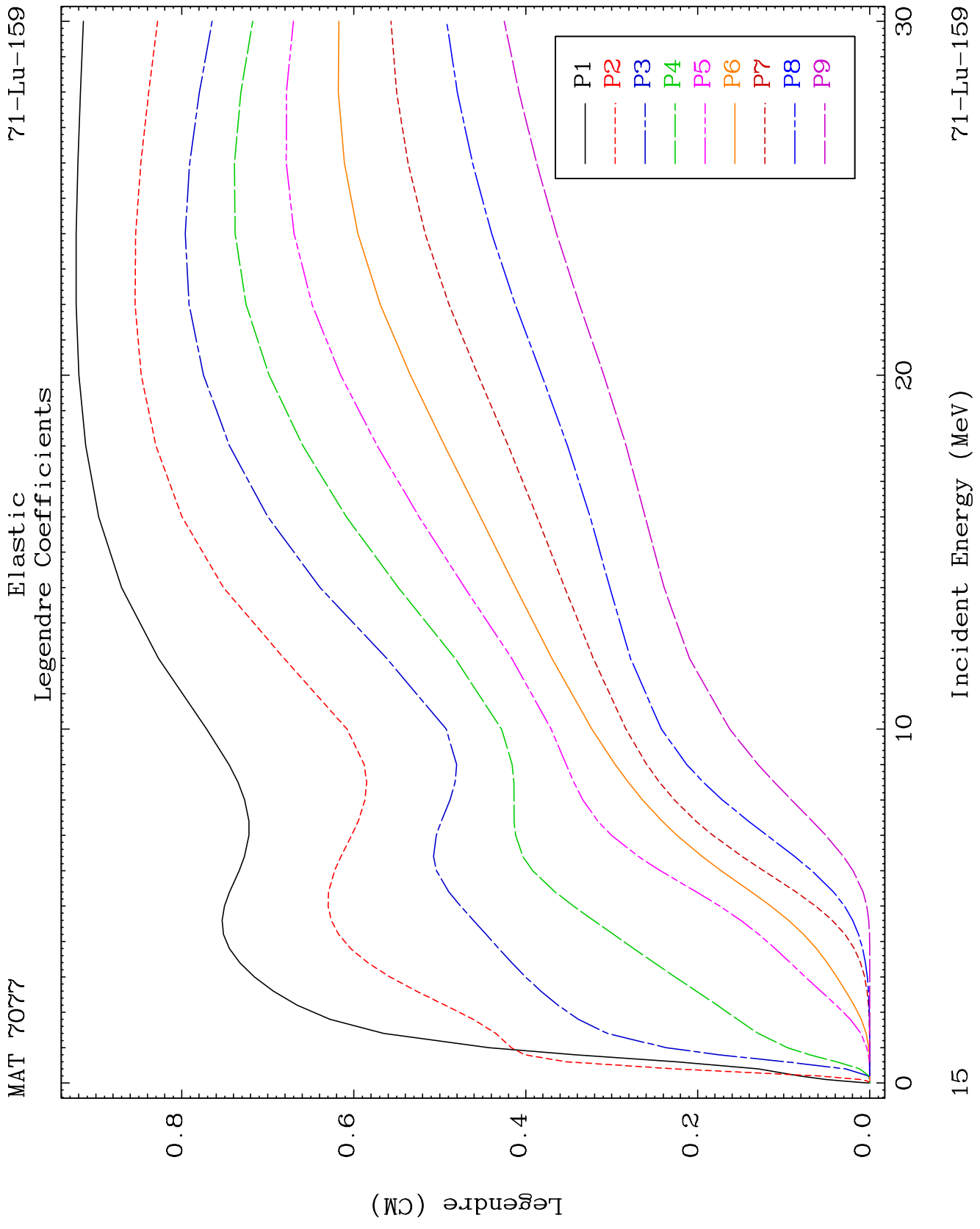


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Incident Energy (MeV)

71-Lu-159

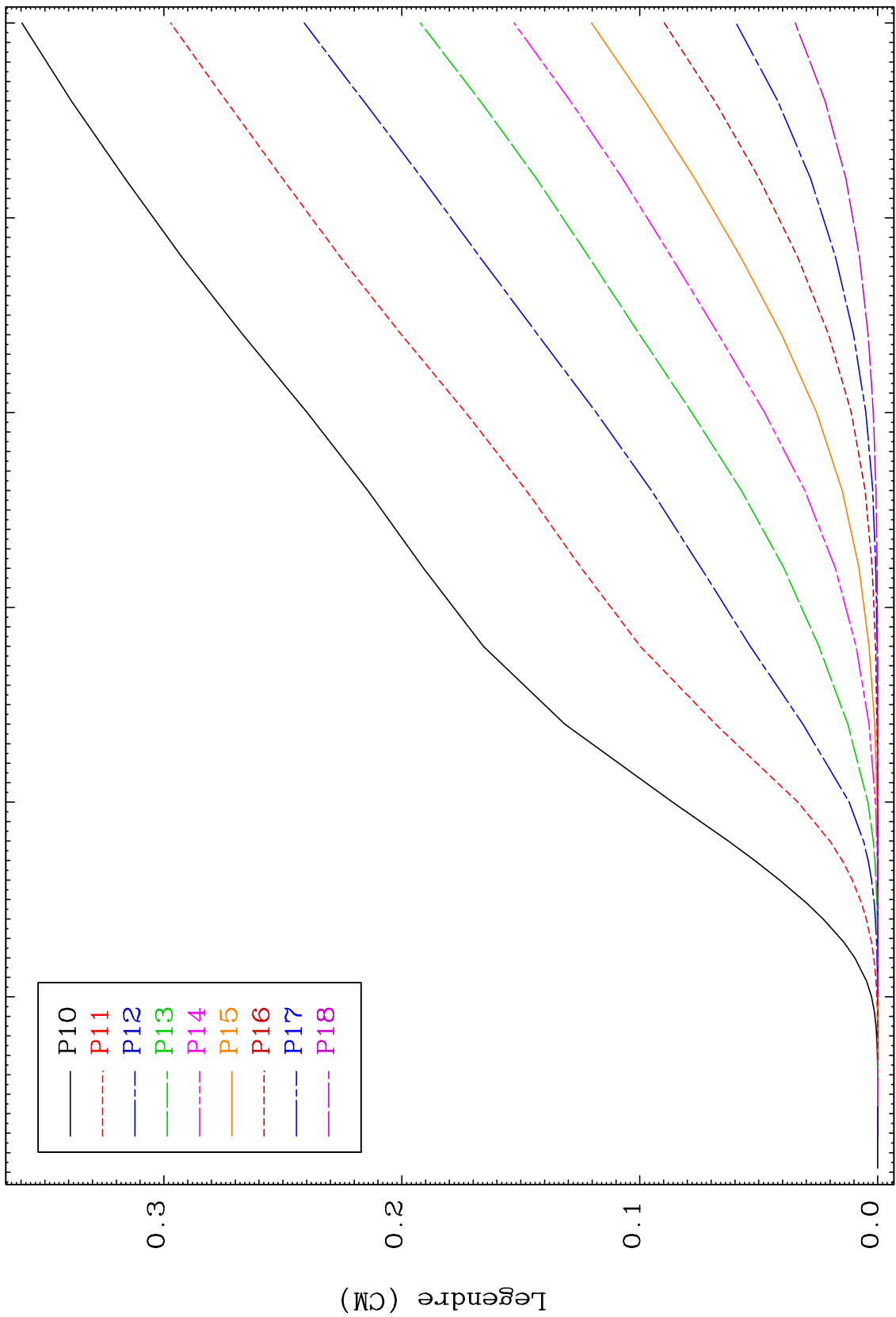




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Elastic Legendre Coefficients

⁷¹Lu-159



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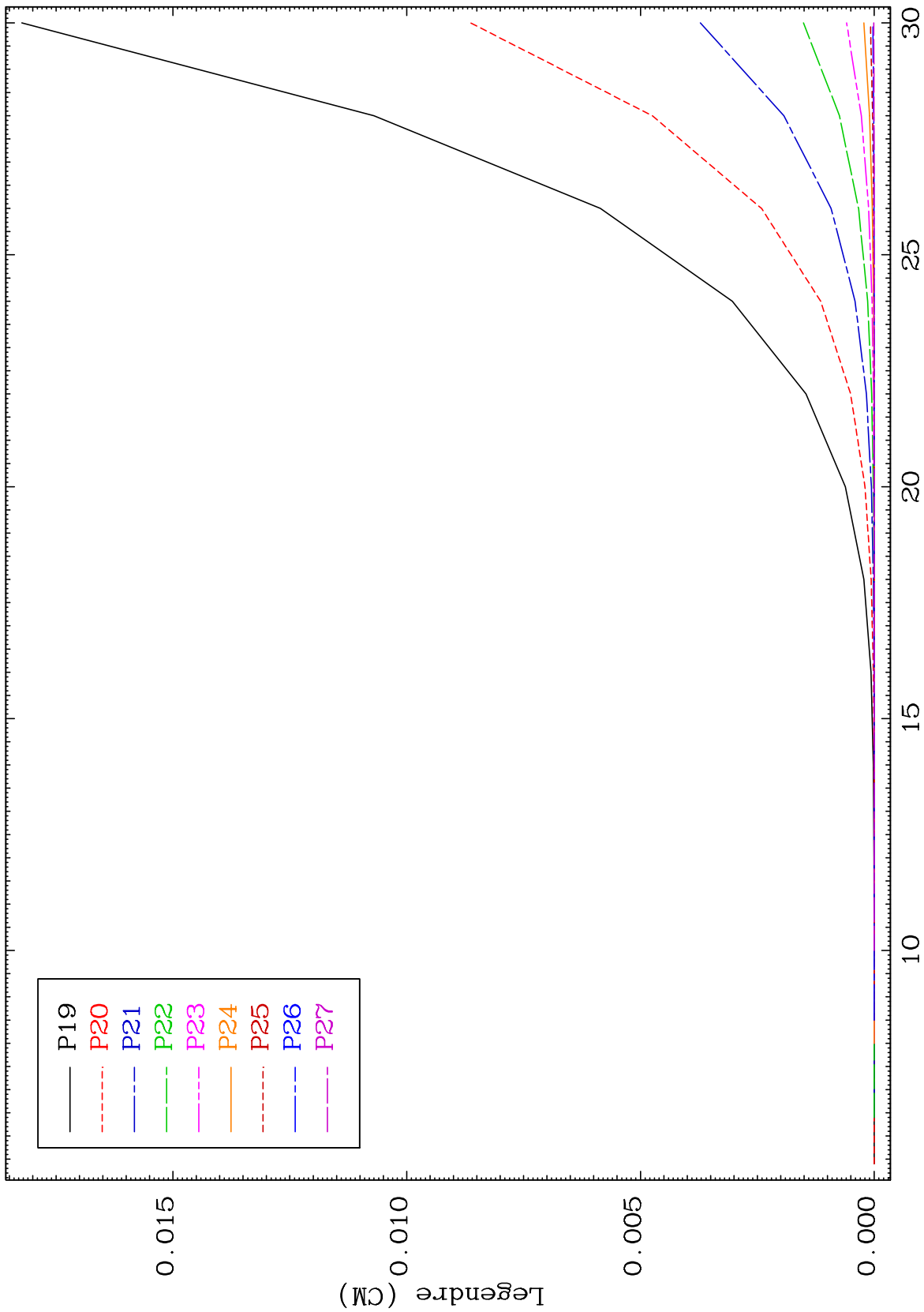
Incident Energy (MeV)

⁷¹Lu-159

MAT 7077

Elastic Legendre Coefficients

71-Lu-159



17

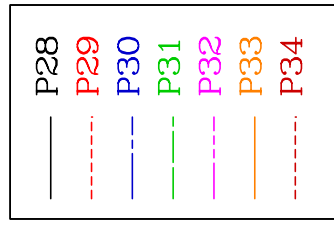
Incident Energy (MeV)

71-Lu-159

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Elastic
Legendre Coefficients

71-Lu-159



$\times 10^{-6}$

Legendre (CM)

2

1

0

15

20

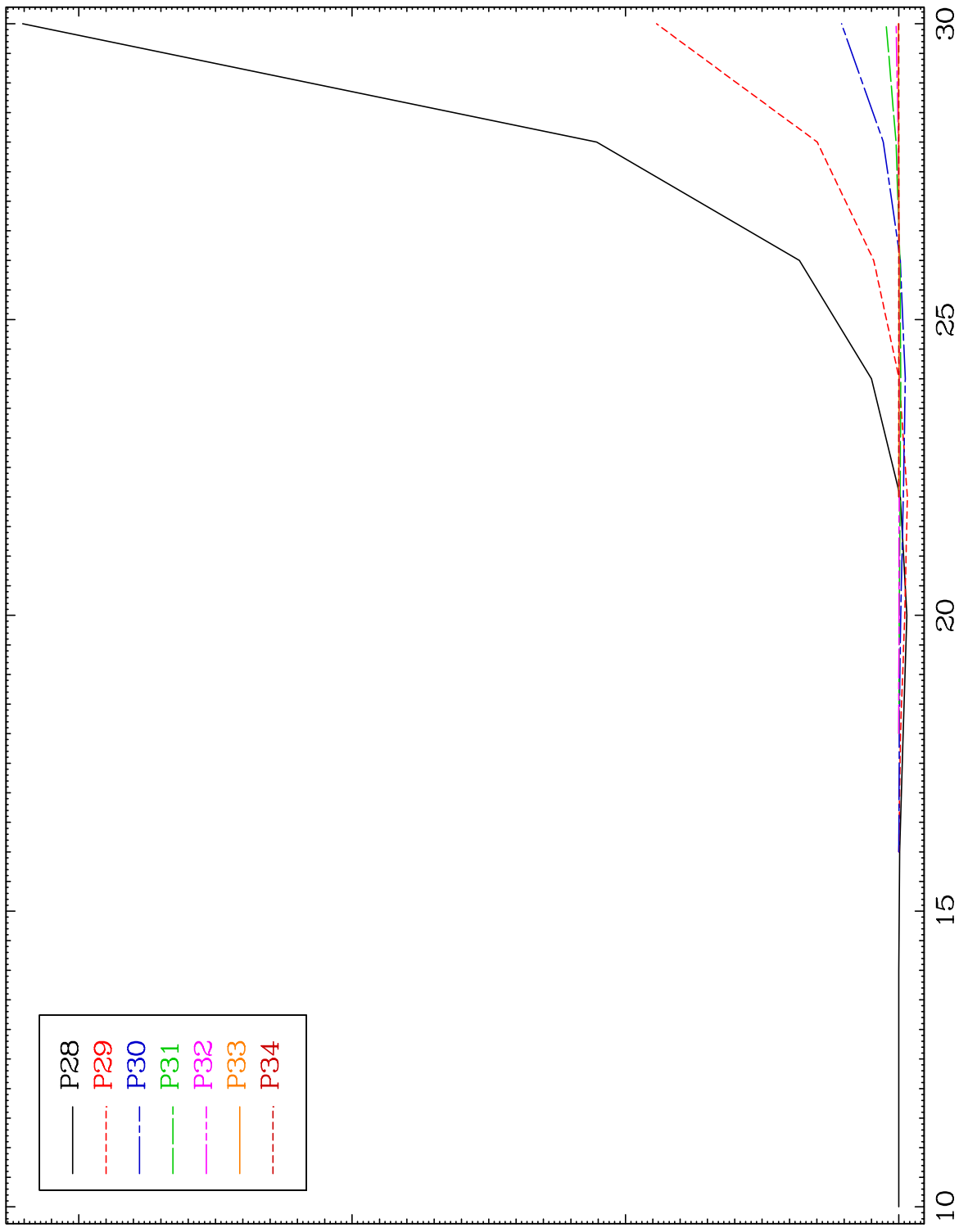
25

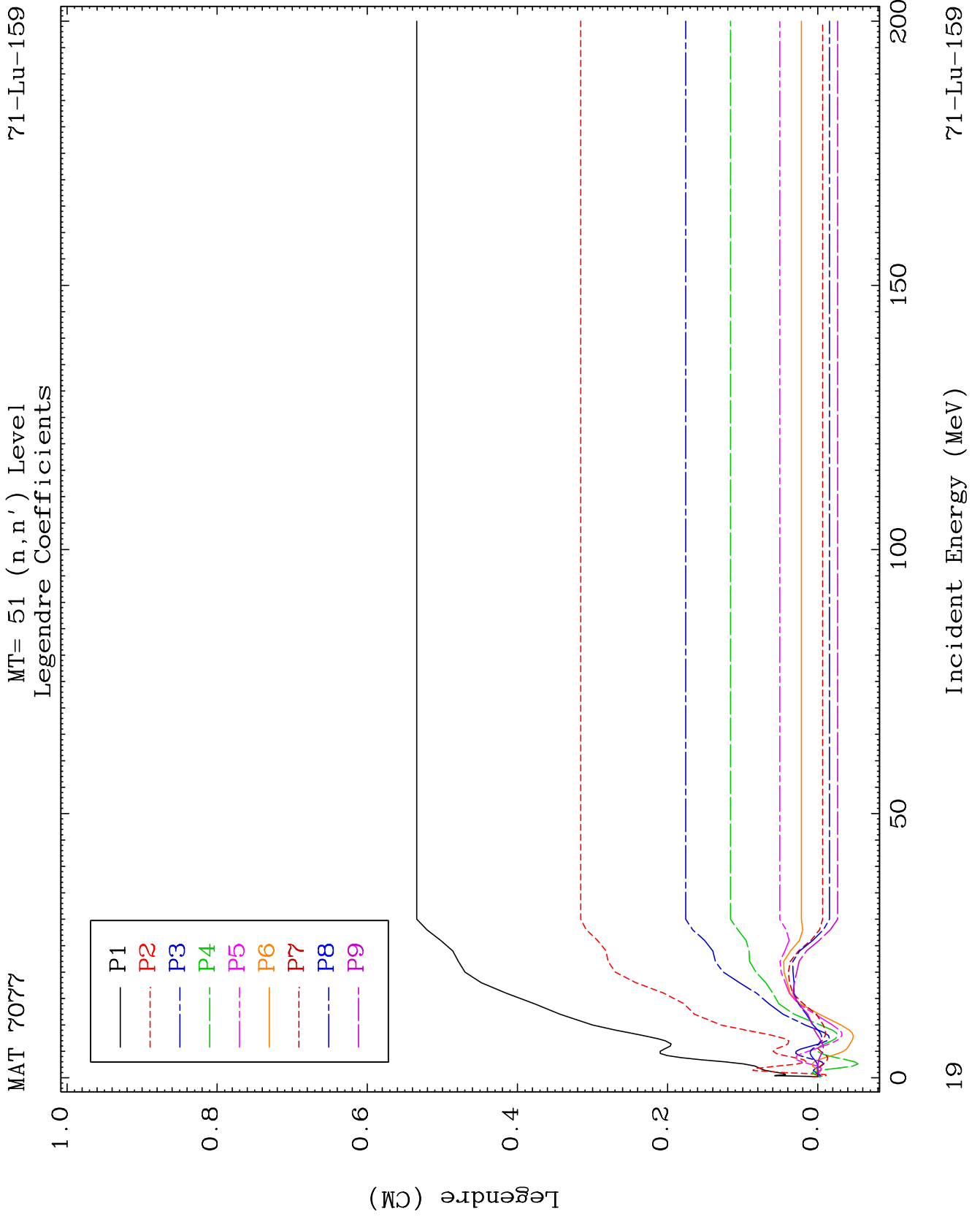
30

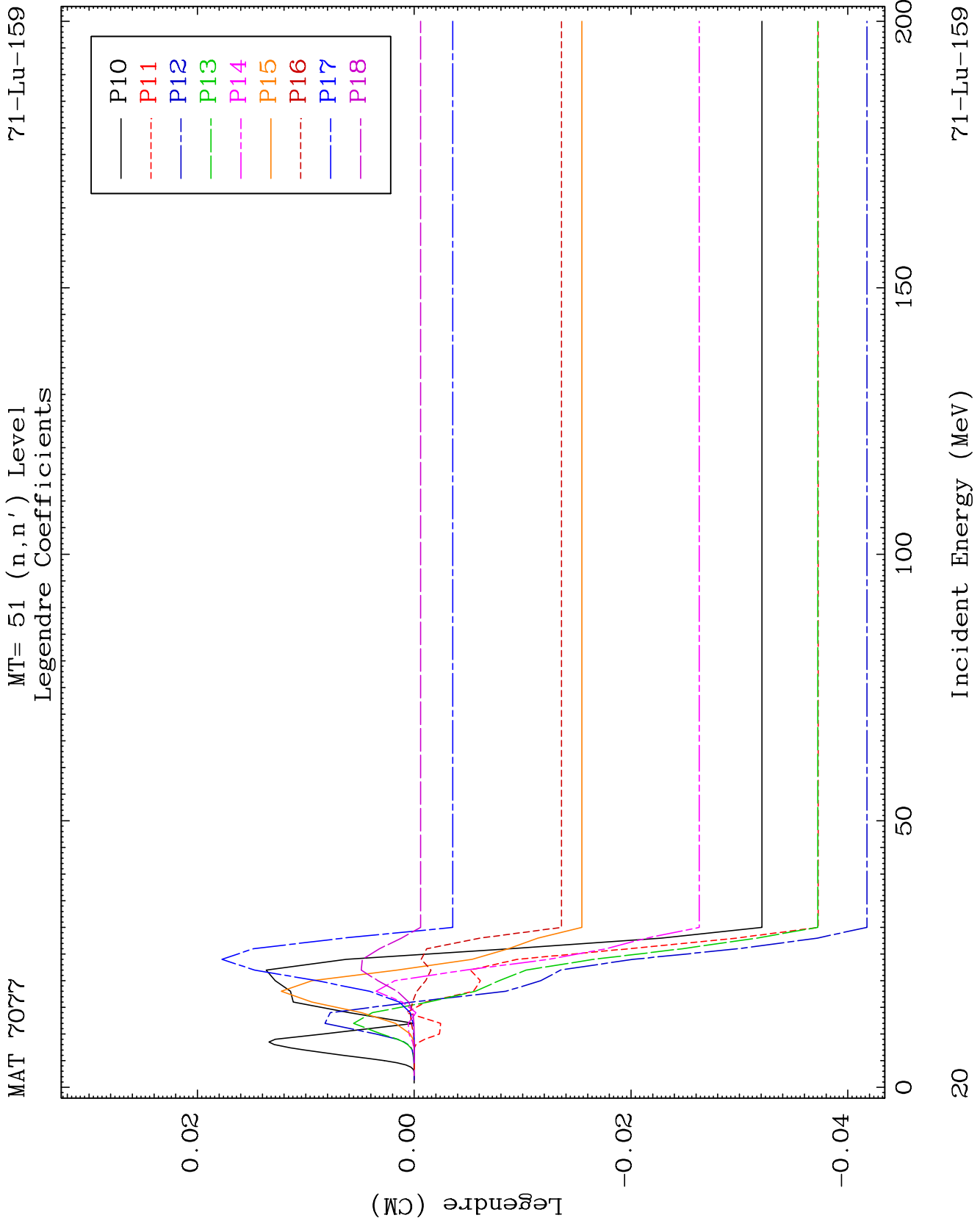
18

Incident Energy (MeV)

71-Lu-159



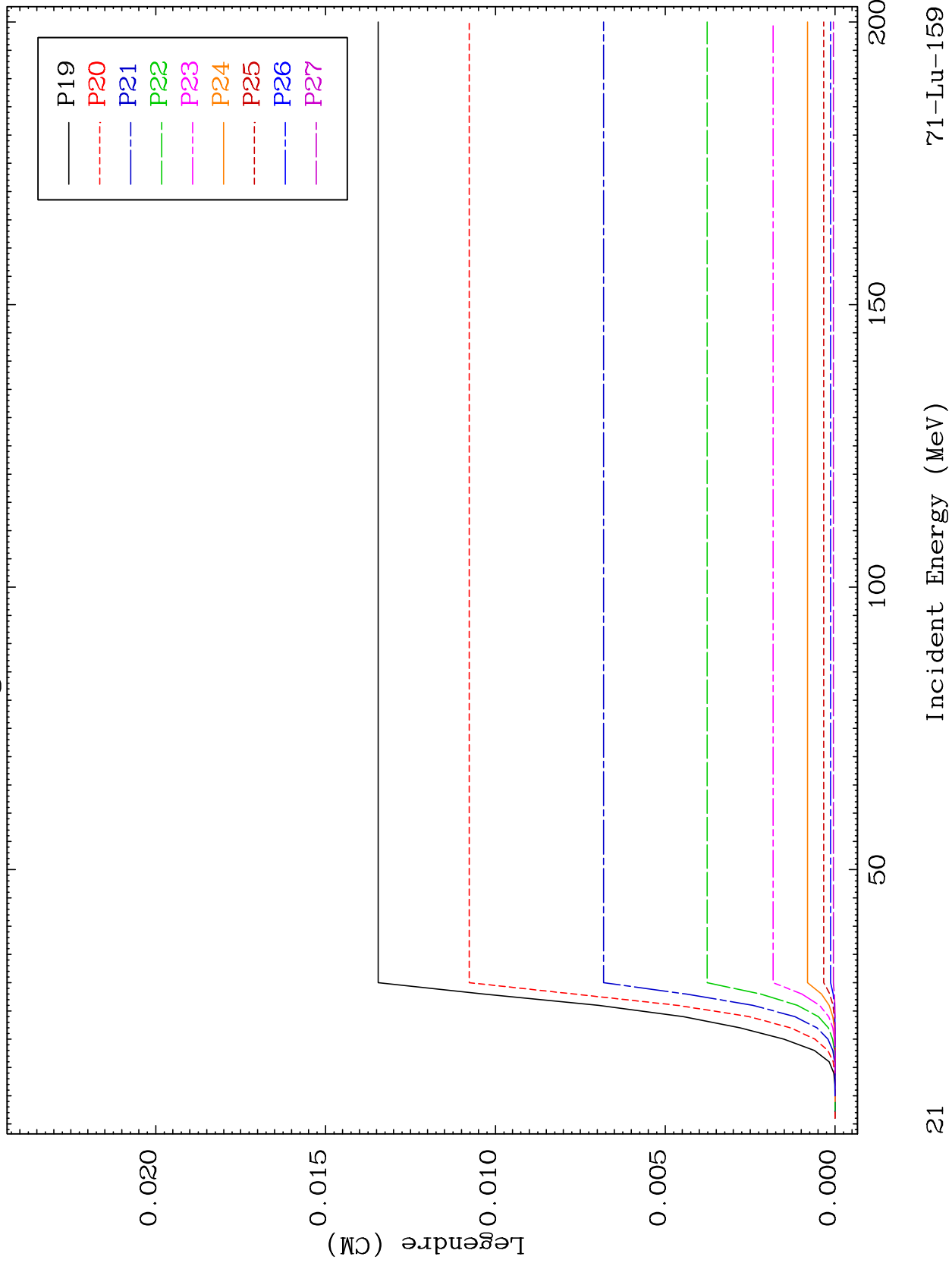




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MT= 51 (n,n') Level
Legendre Coefficients

71-Lu-159



21

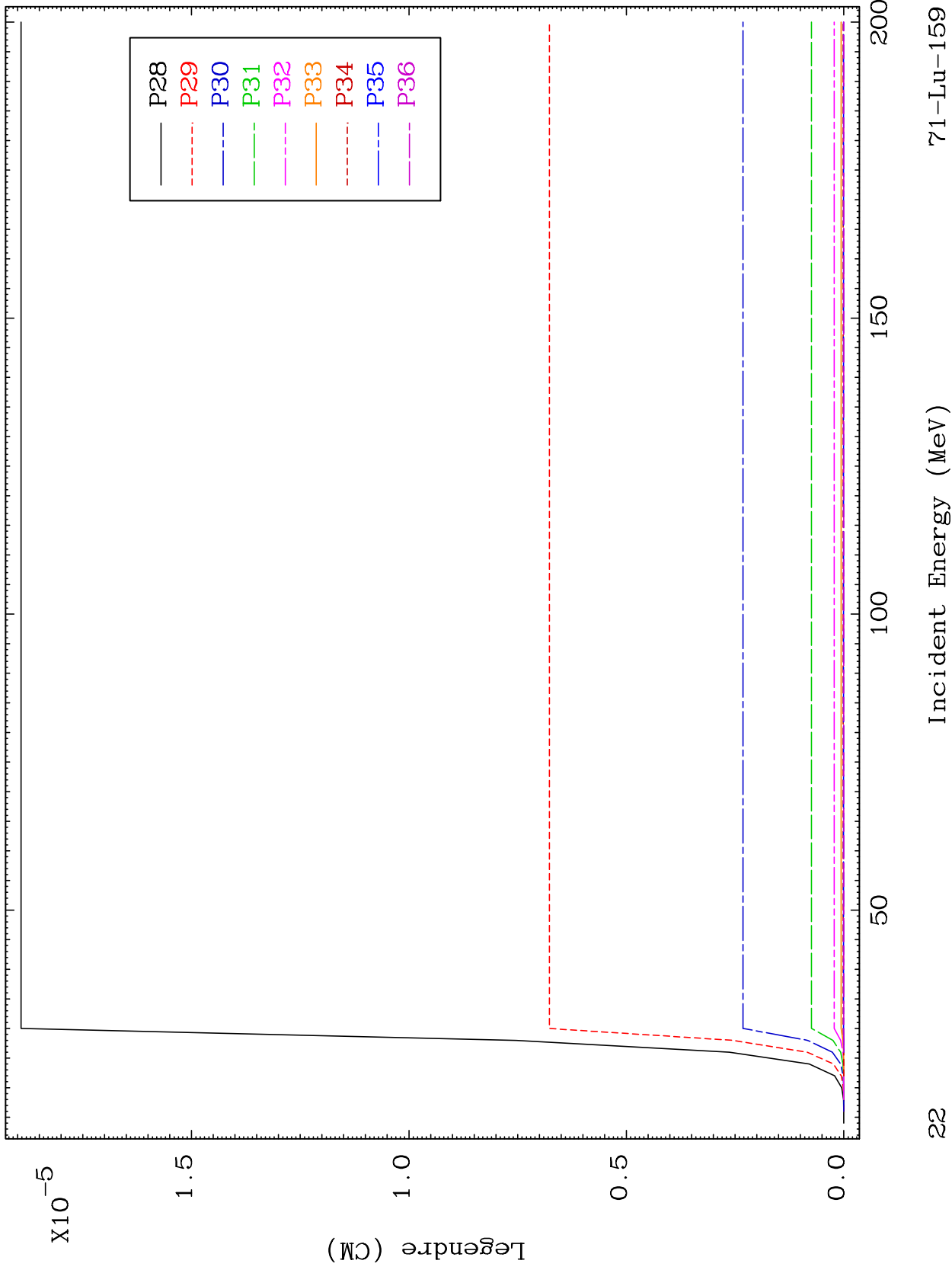
Incident Energy (MeV)

71-Lu-159

MAT 7077

MT= 51 (n,n') Level
Legendre Coefficients

71-Lu-159



22

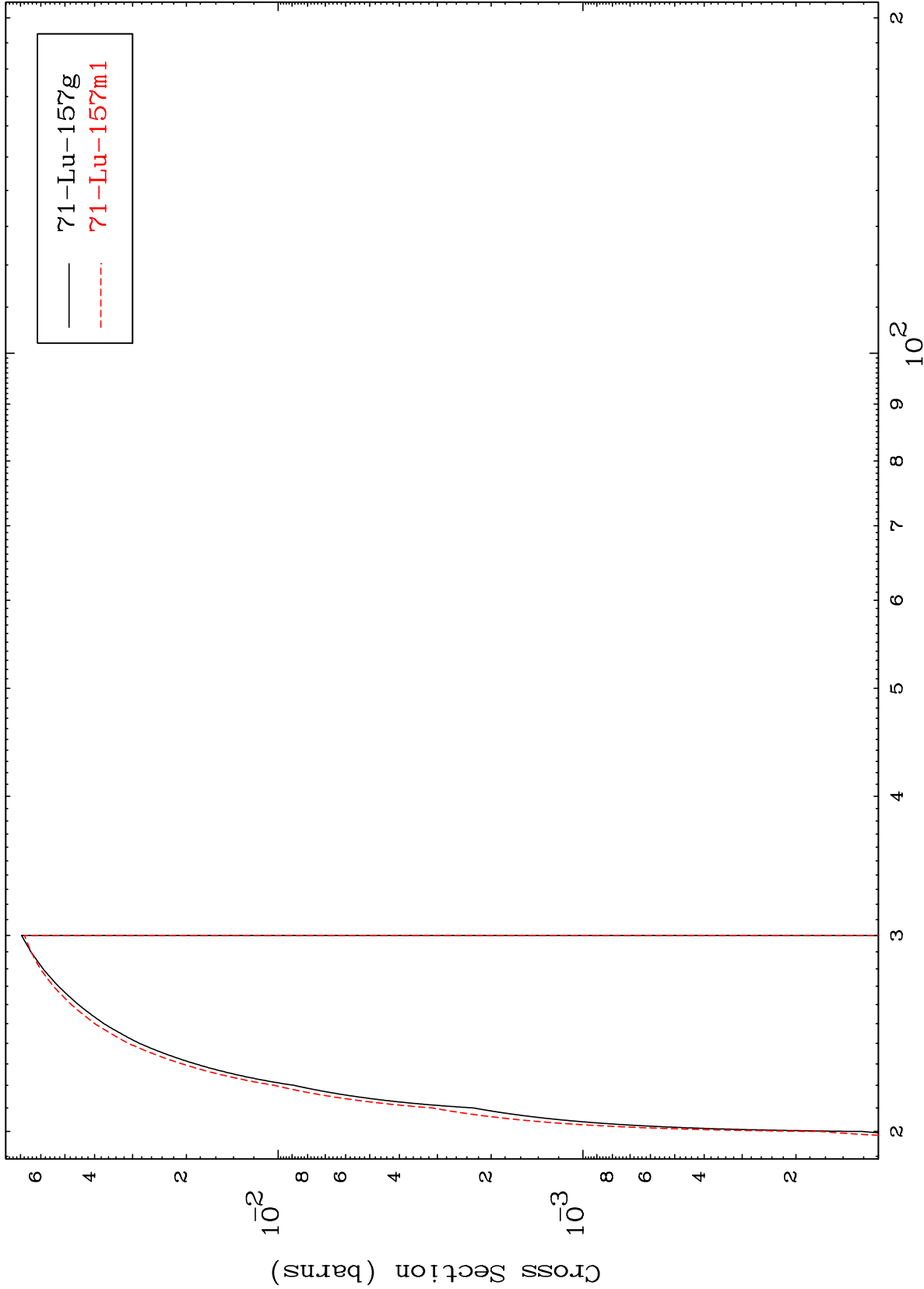
71-Lu-159

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(n,3n)

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Radionuclide Production Cross Section



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Incident Energy (MeV)

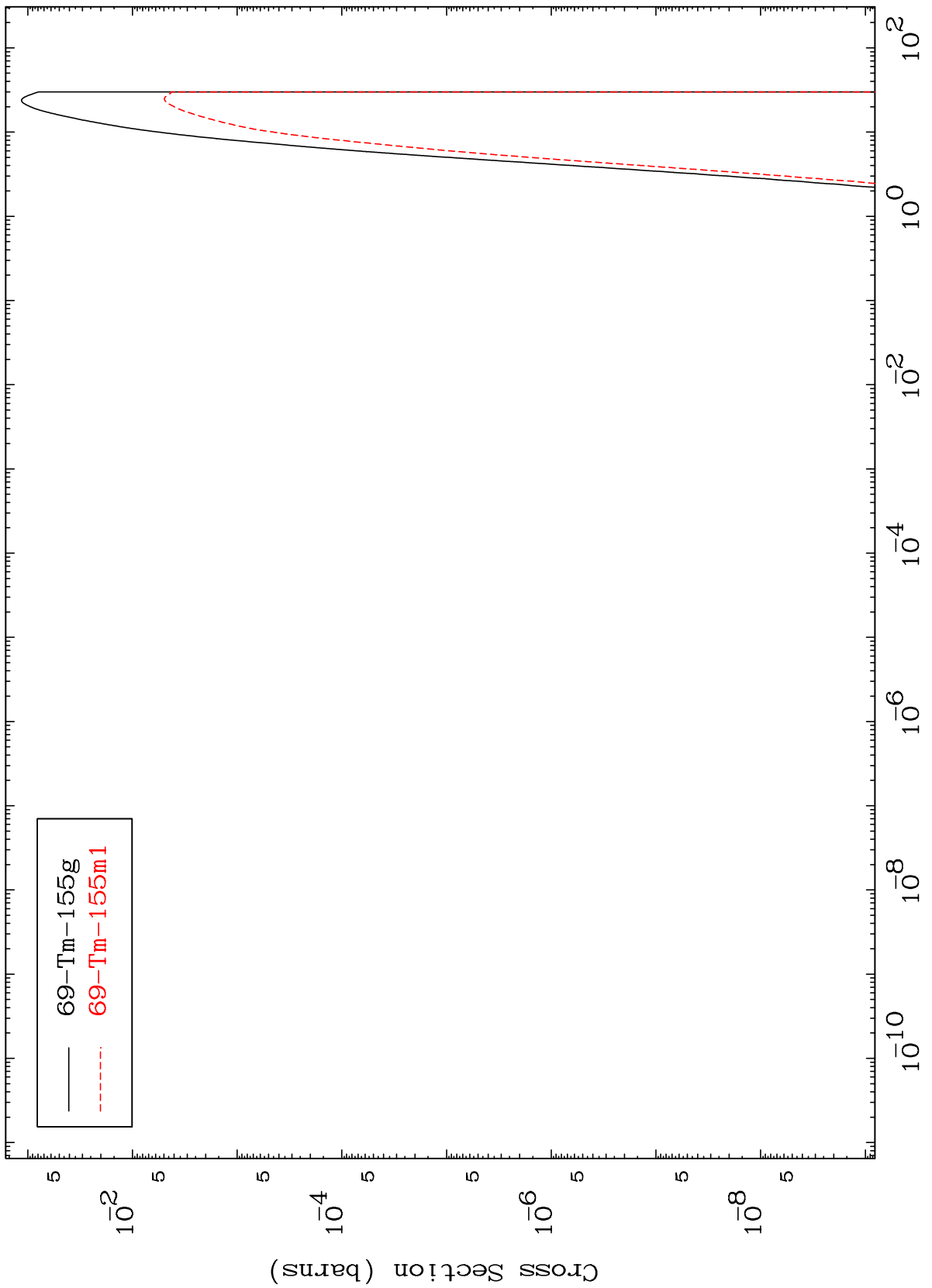
71-Lu-159

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(n,n') α

71-Lu-159

Radionuclide Production Cross Section

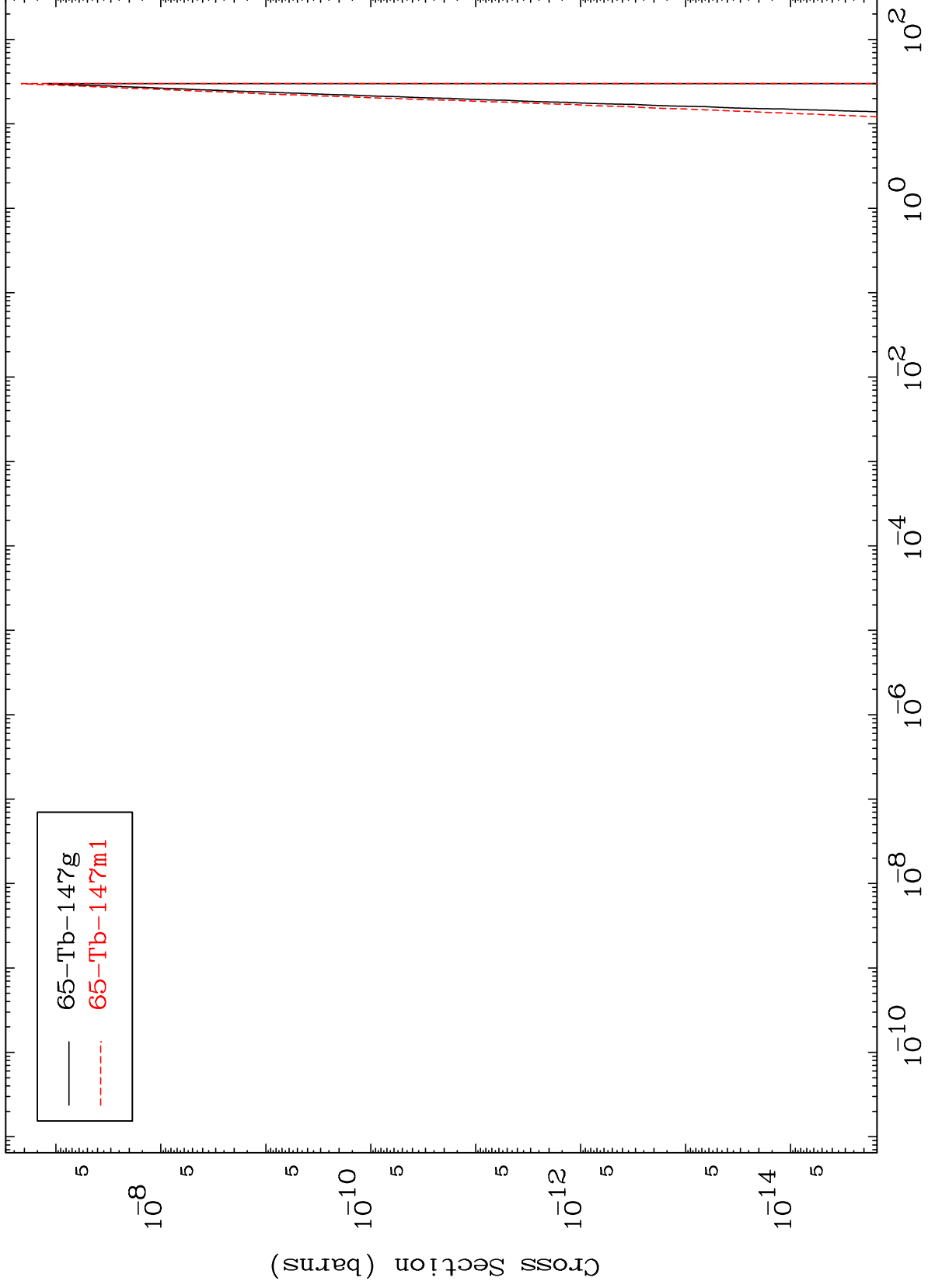


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(n,n') 3 α

⁷¹Lu-159

Radionuclide Production Cross Section

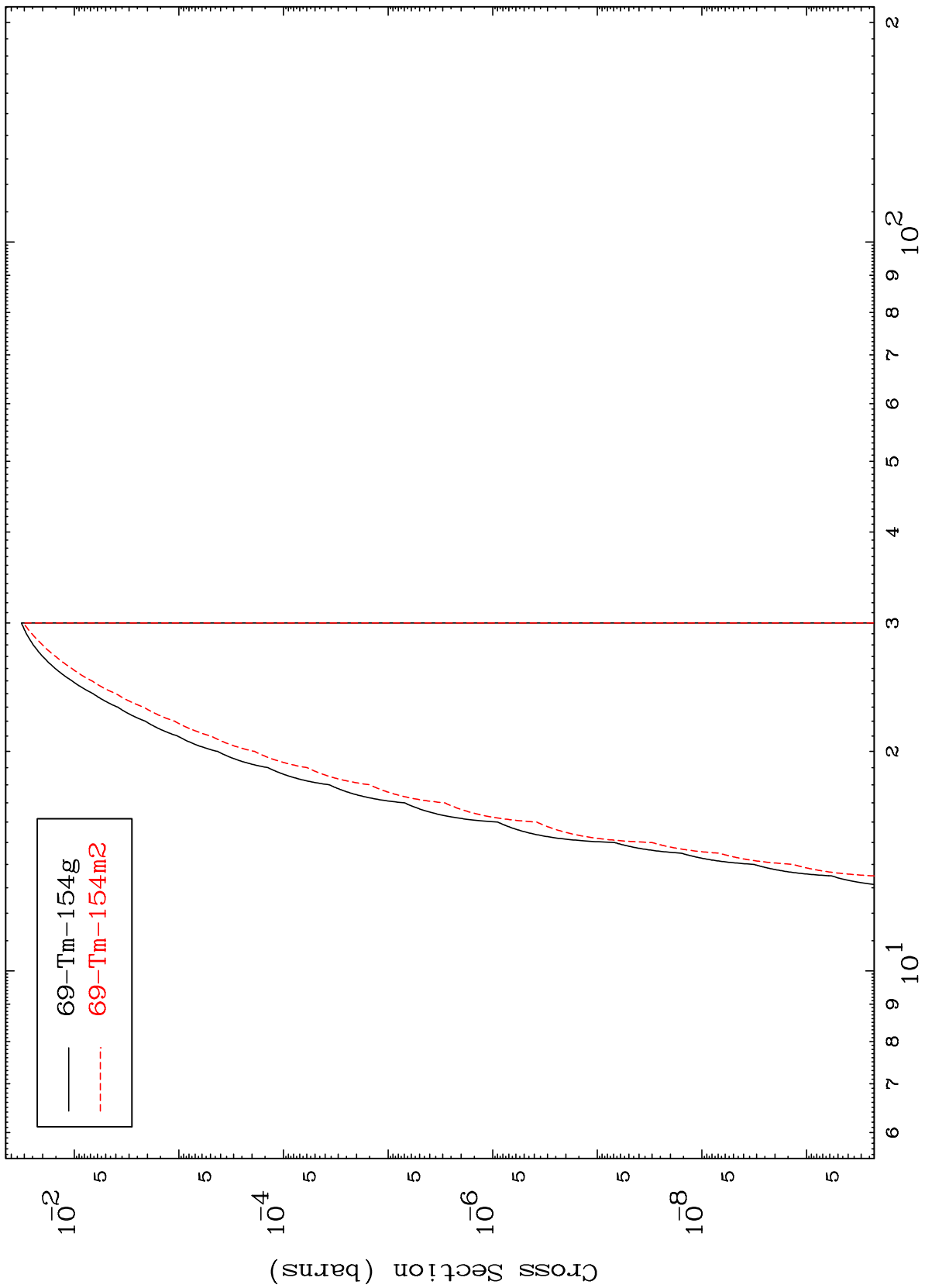


25

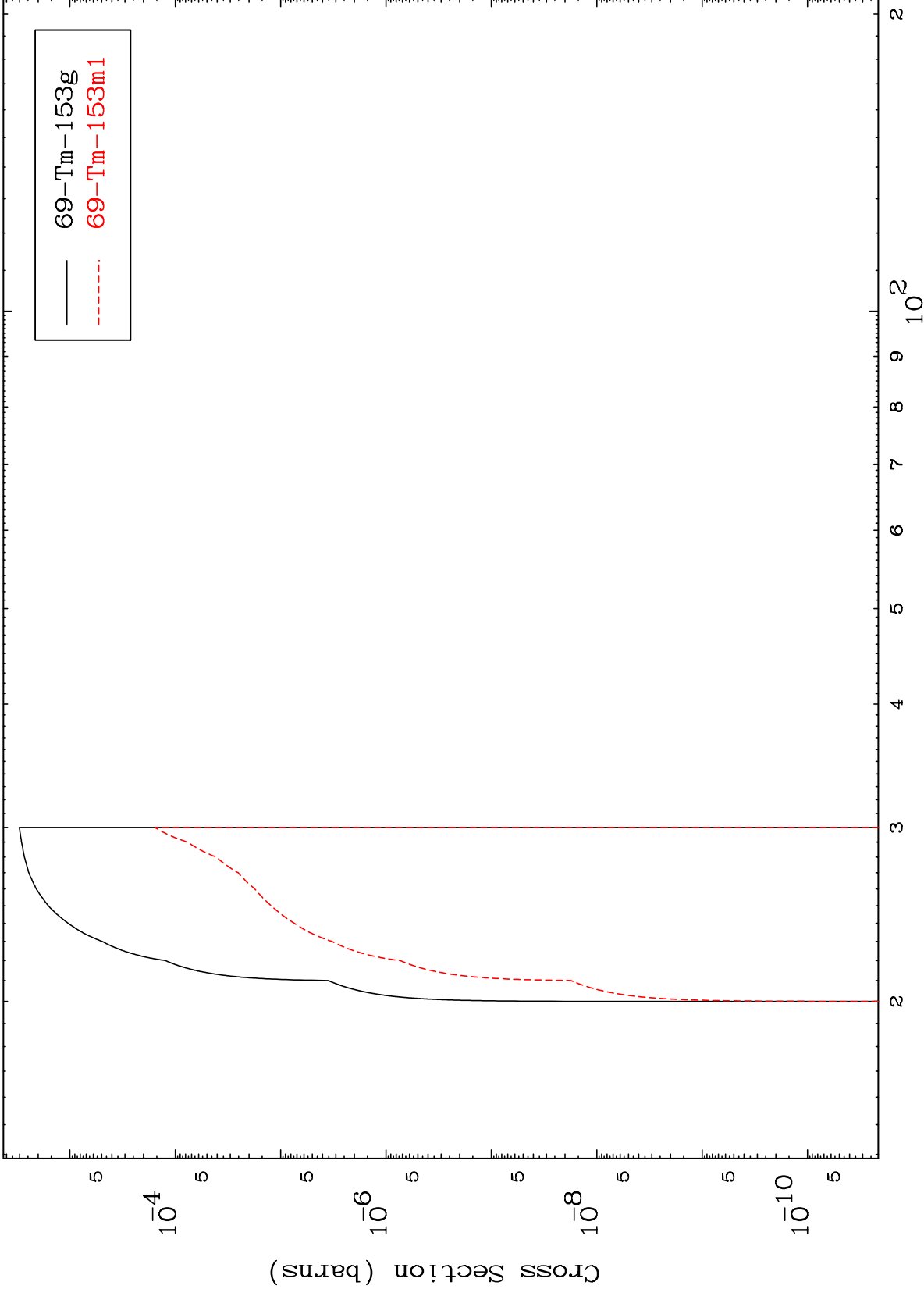
Incident Energy (MeV)

⁷¹Lu-159

Radionuclide Production Cross Section



Radionuclide Production Cross Section

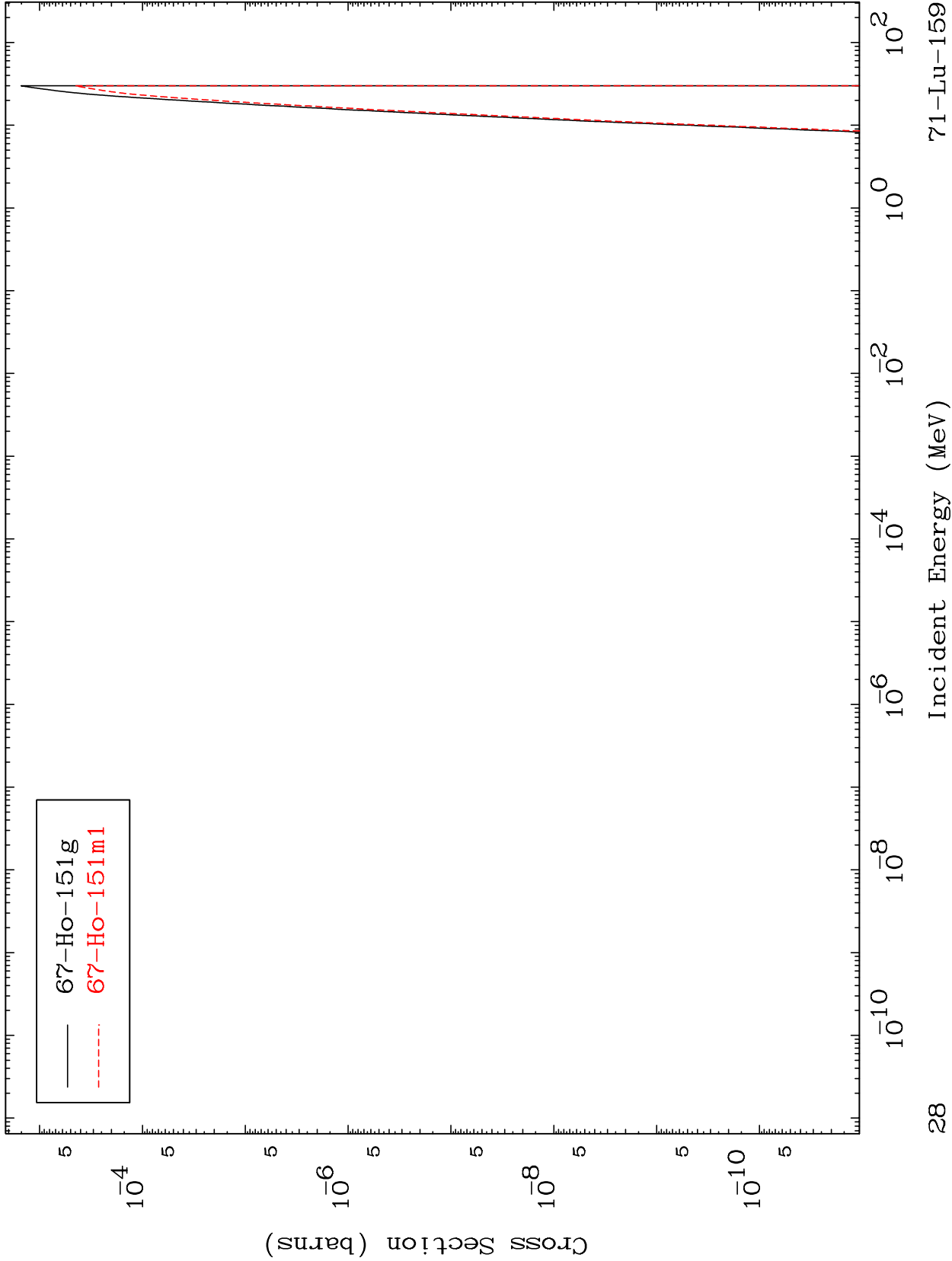


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(n,n') 2α

71-Lu-159

Radionuclide Production Cross Section

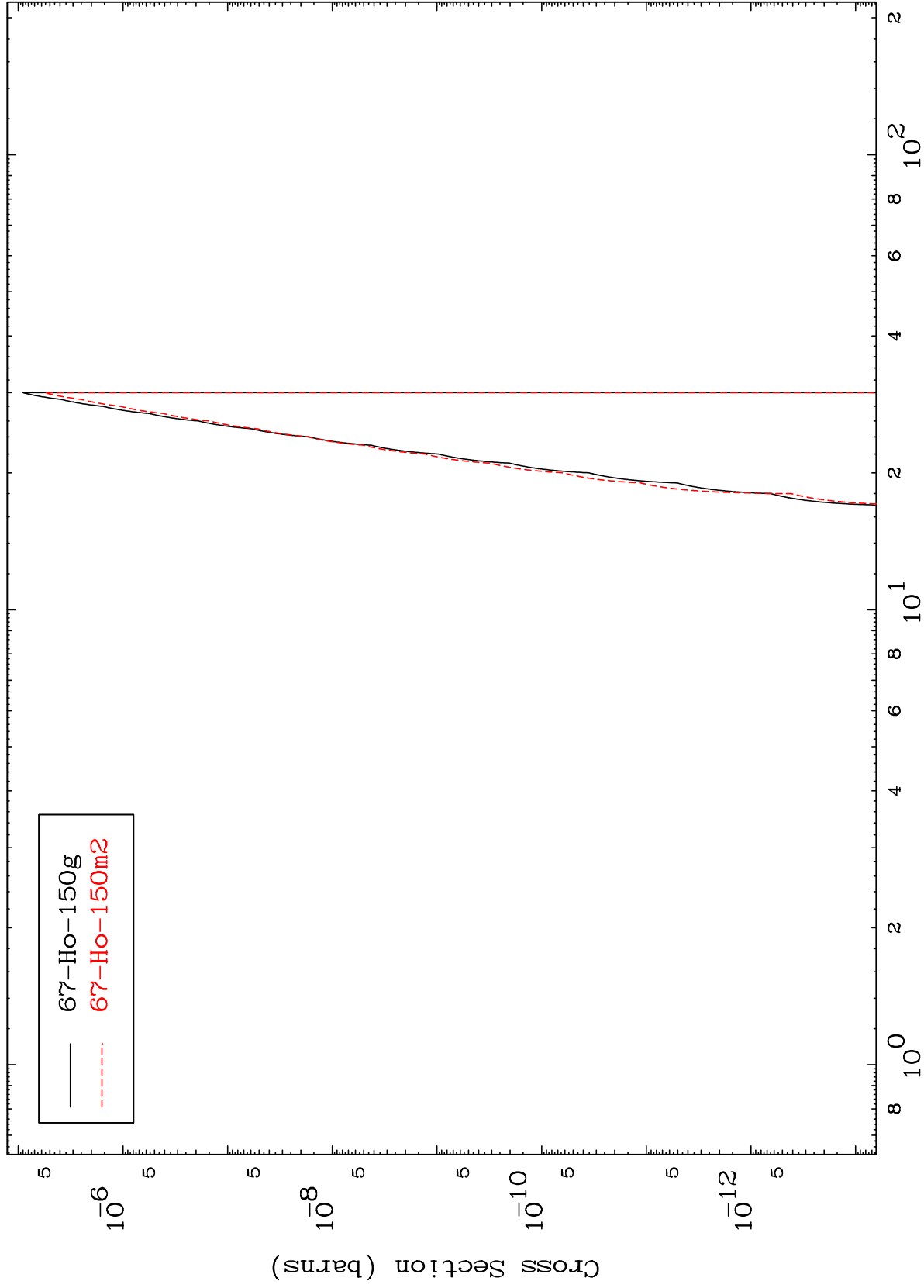


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^{67}Lu

^{159}Lu

Radionuclide Production Cross Section



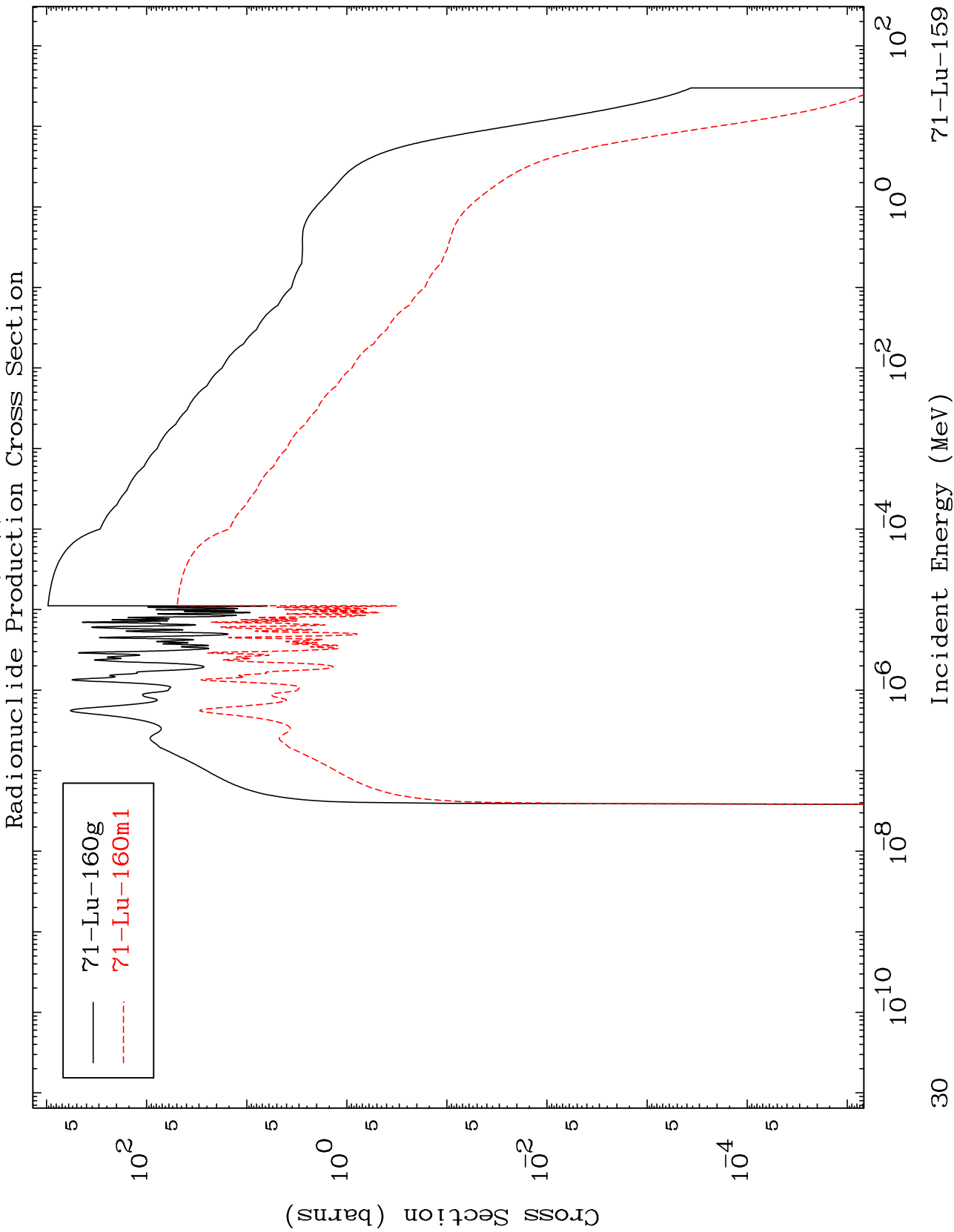
29

Incident Energy (MeV)

^{159}Lu

MAT 7077

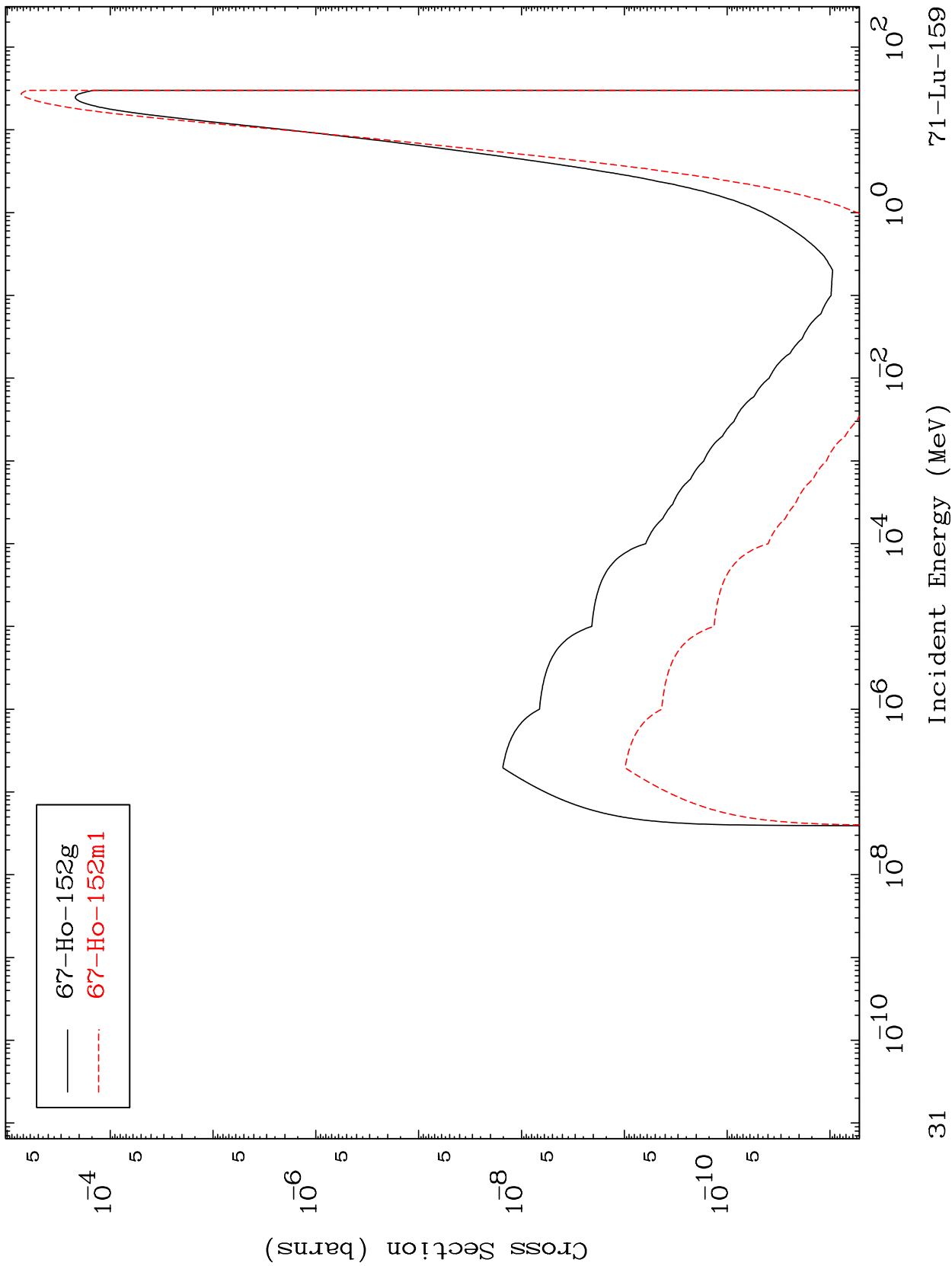
⁷¹Lu-159



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71-Lu-159

Radionuclide Production Cross Section
(n,2α)

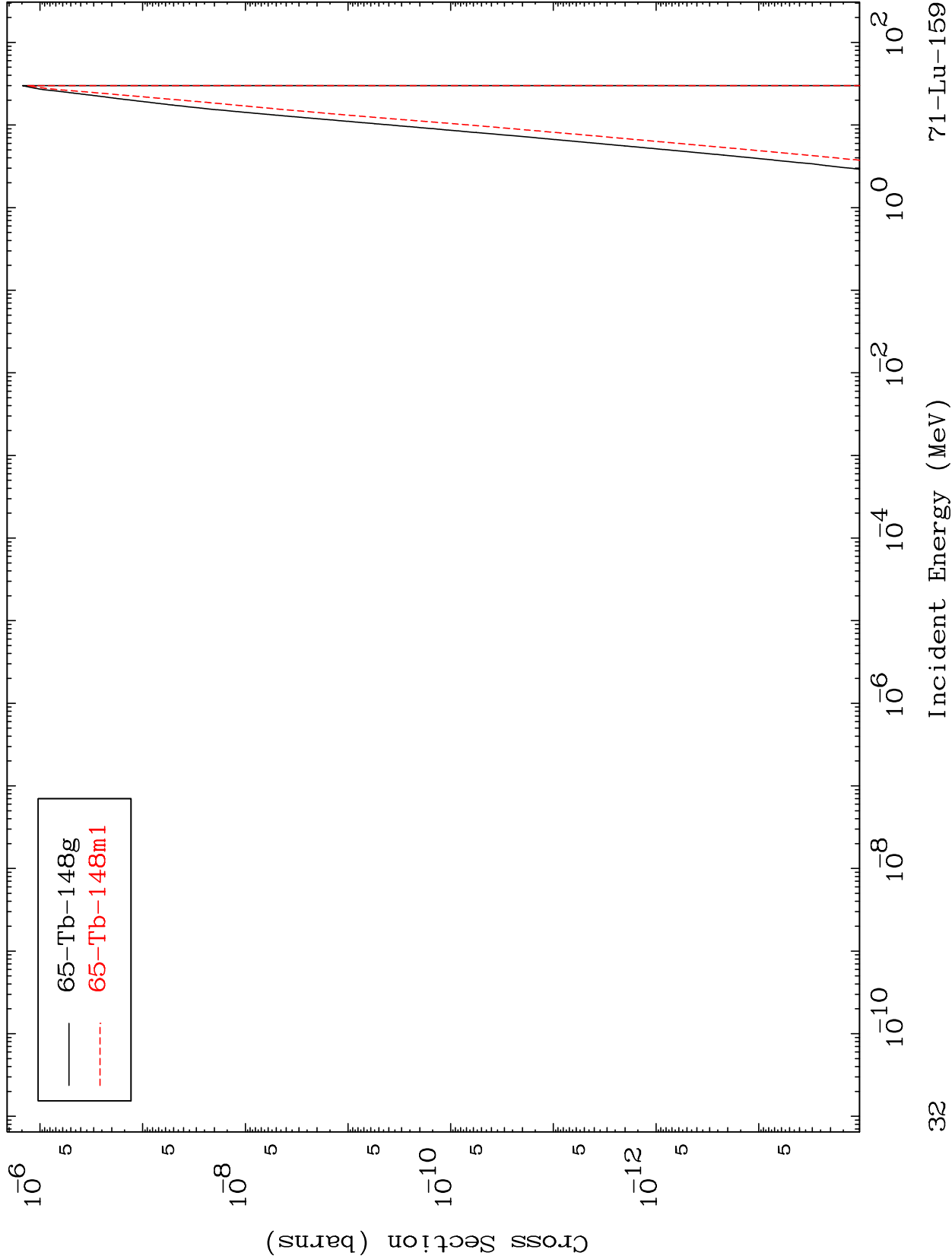


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(n,3 α)

⁷¹Lu-159

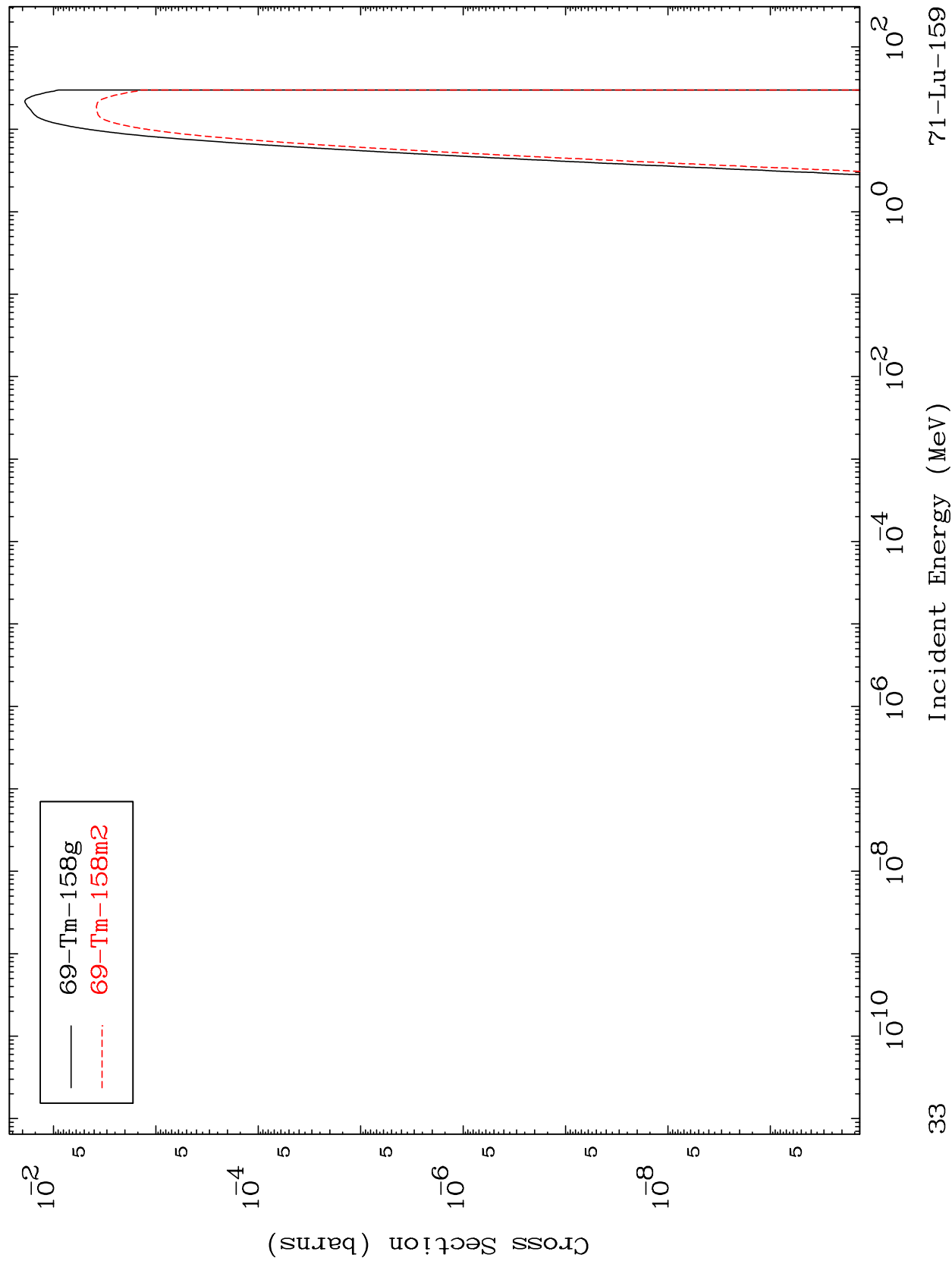
Radionuclide Production Cross Section



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71-Lu-159

(n,2p)
Radionuclide Production Cross Section



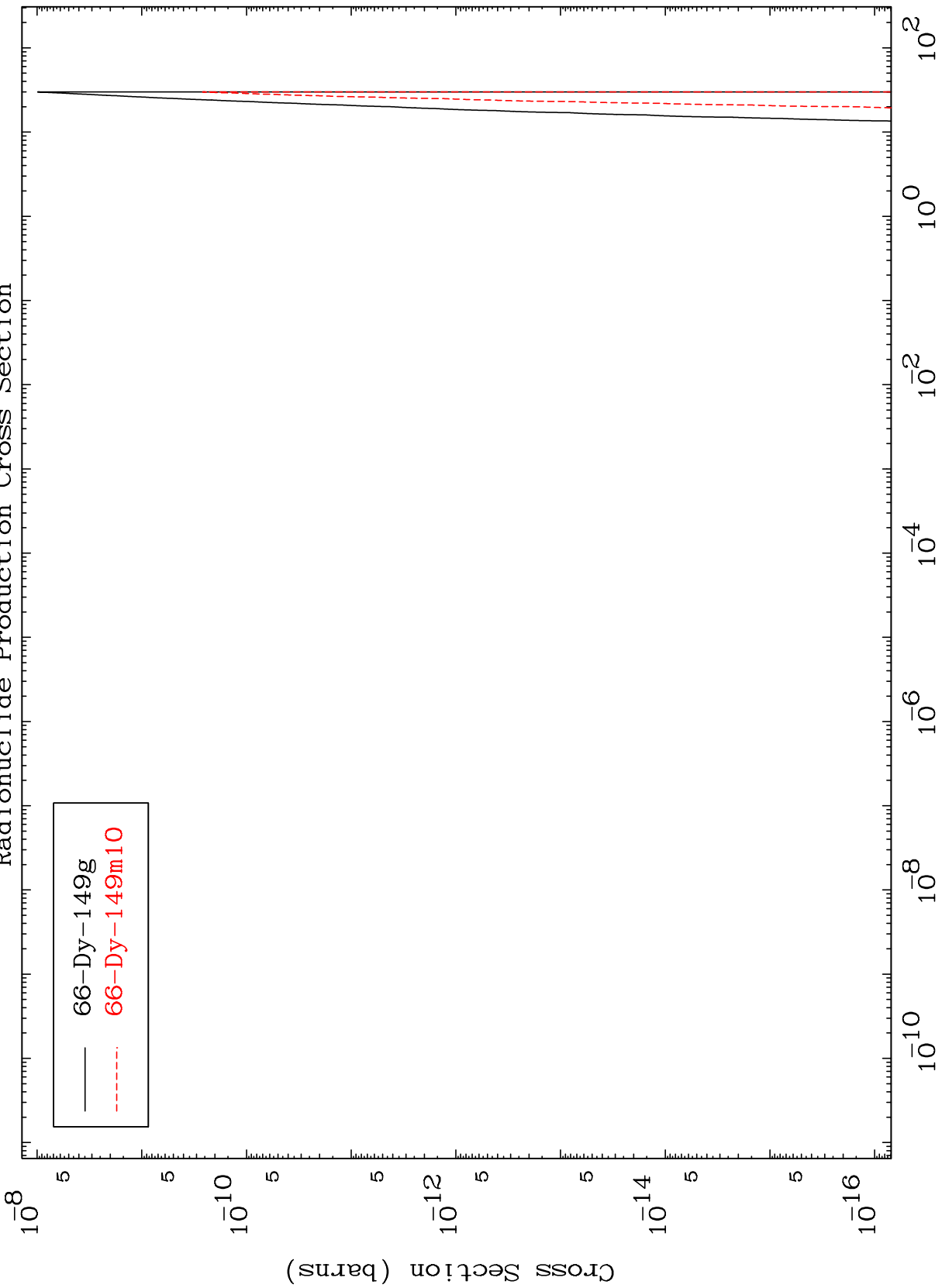
69-Tm-158g
69-Tm-158m2

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(n,t) 2 α

71-Lu-159

Radionuclide Production Cross Section



— 66-Dy-149g
- - - 66-Dy-149m10

Incident Energy (MeV)

71-Lu-159

34