

Program EVALPLOT  
(Version 2021-1)

by

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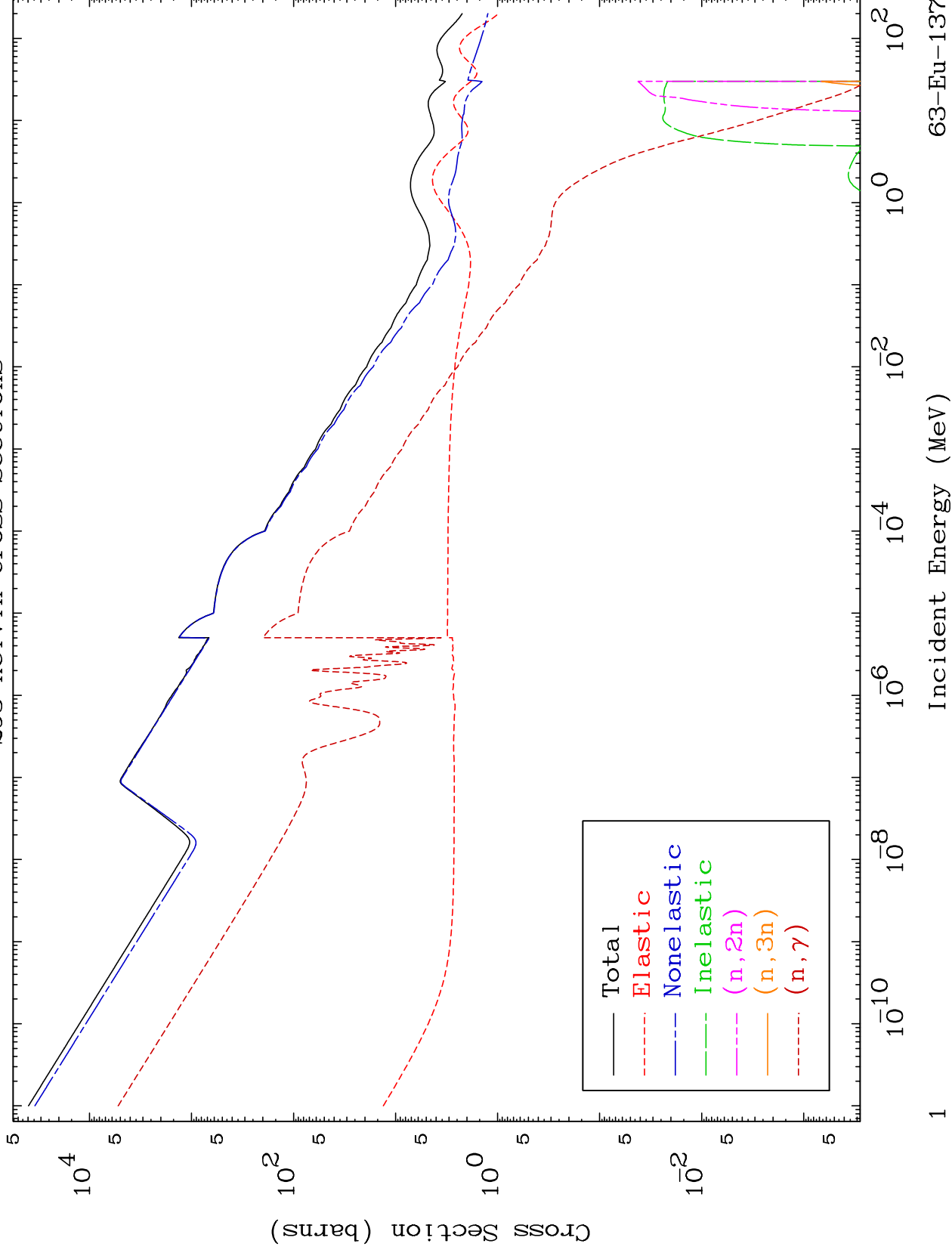
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6283

Neutron Major  
293 Kelvin Cross Sections

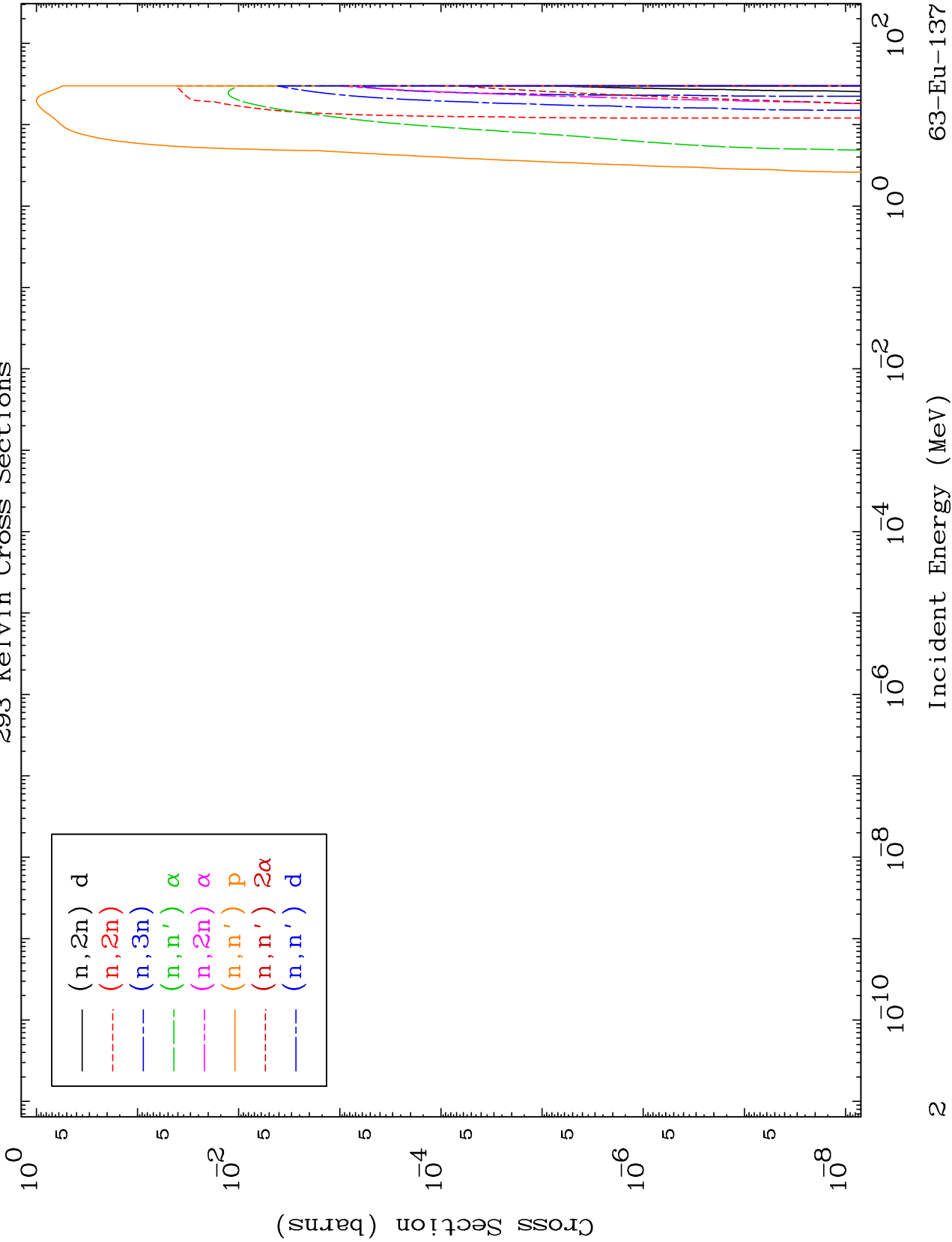
63-Eu-137



MAT 6283

Neutron Absorption  
293 Kelvin Cross Sections

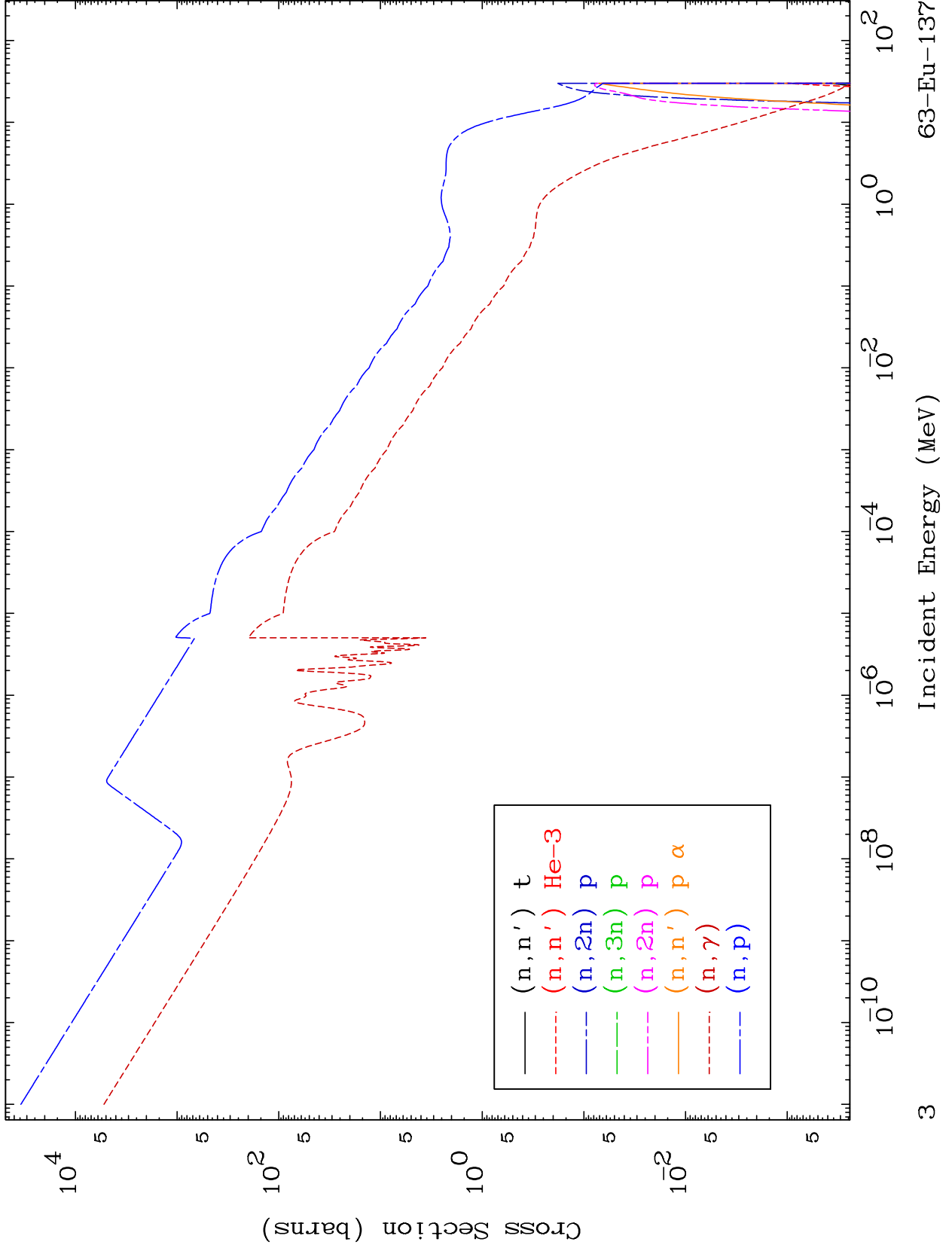
63-Eu-137



MAT 6283

Neutron Absorption  
293 Kelvin Cross Sections

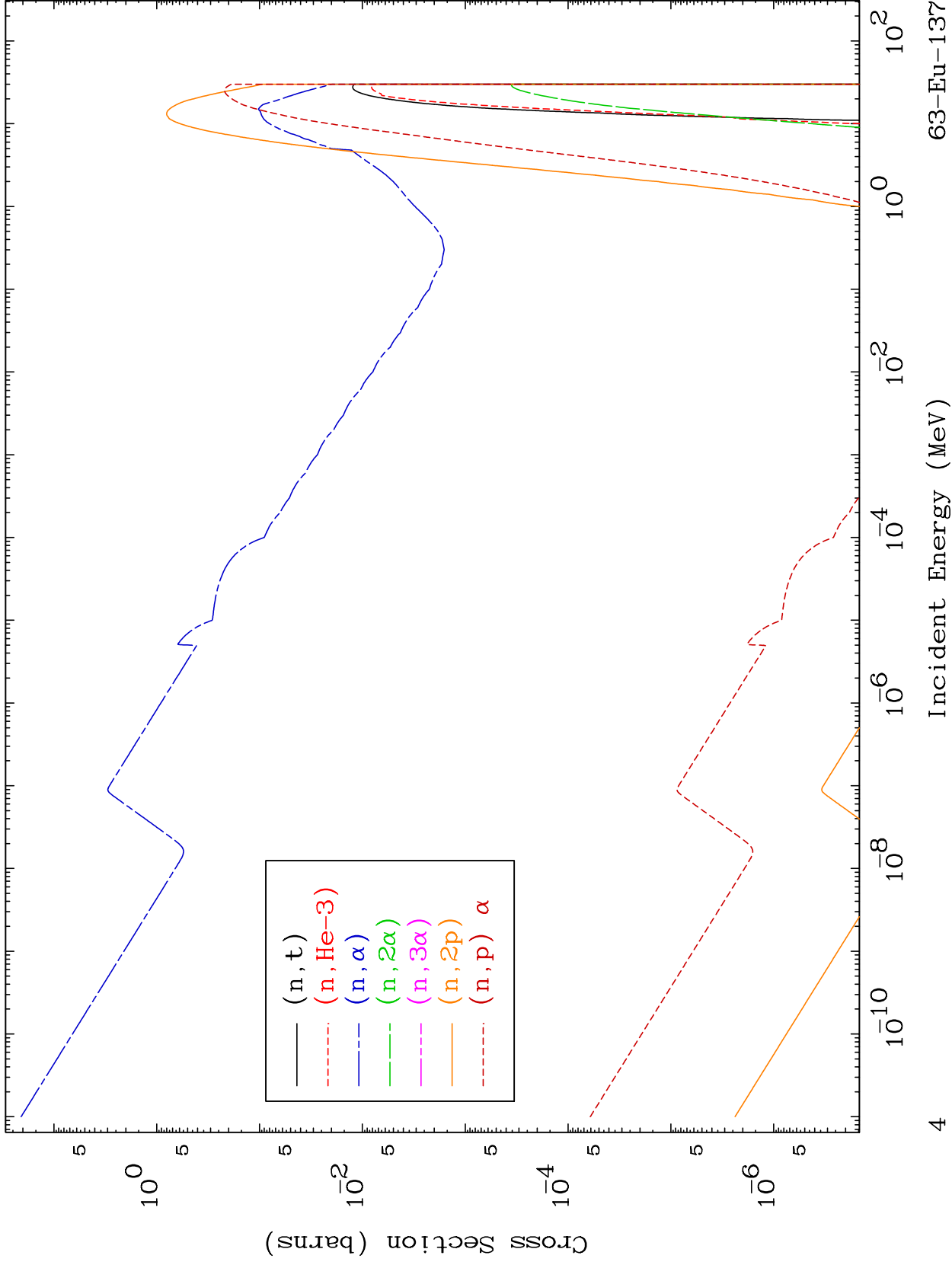
63-Eu-137



MAT 6283

Neutron Absorption  
293 Kelvin Cross Sections

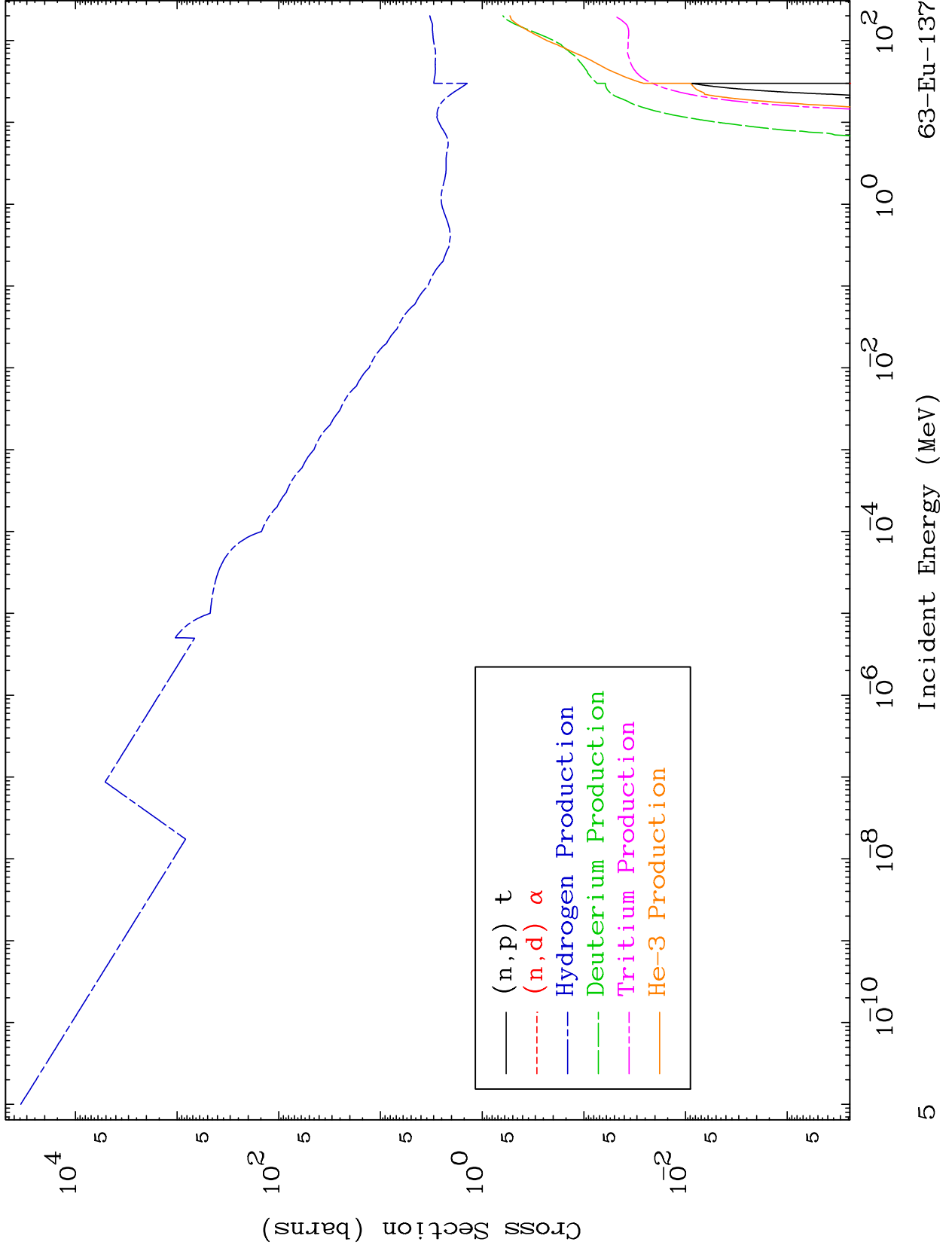
63-Eu-137



MAT 6283

Neutron Absorption  
293 Kelvin Cross Sections

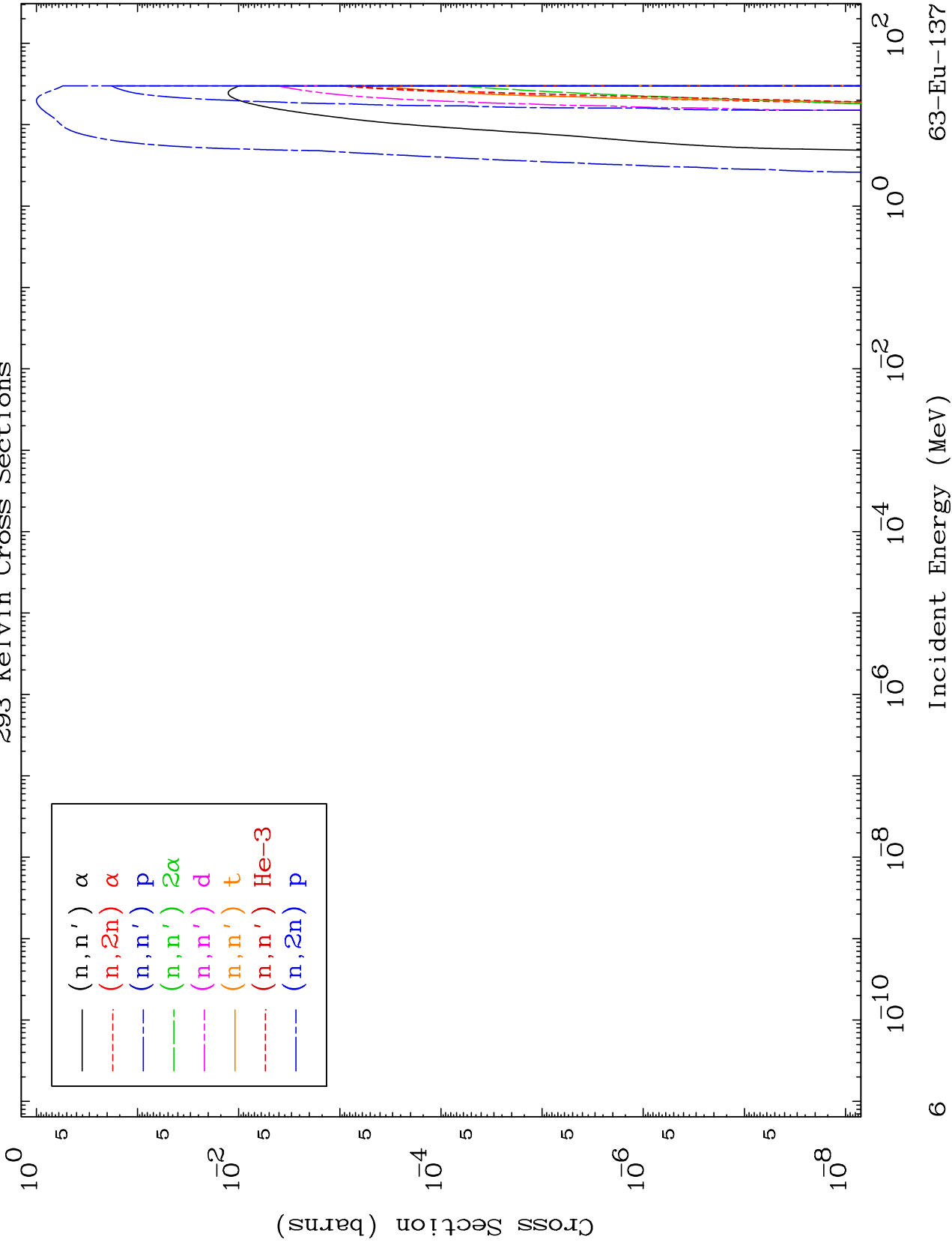
63-Eu-137



MAT 6283

Charged Particle  
293 Kelvin Cross Sections

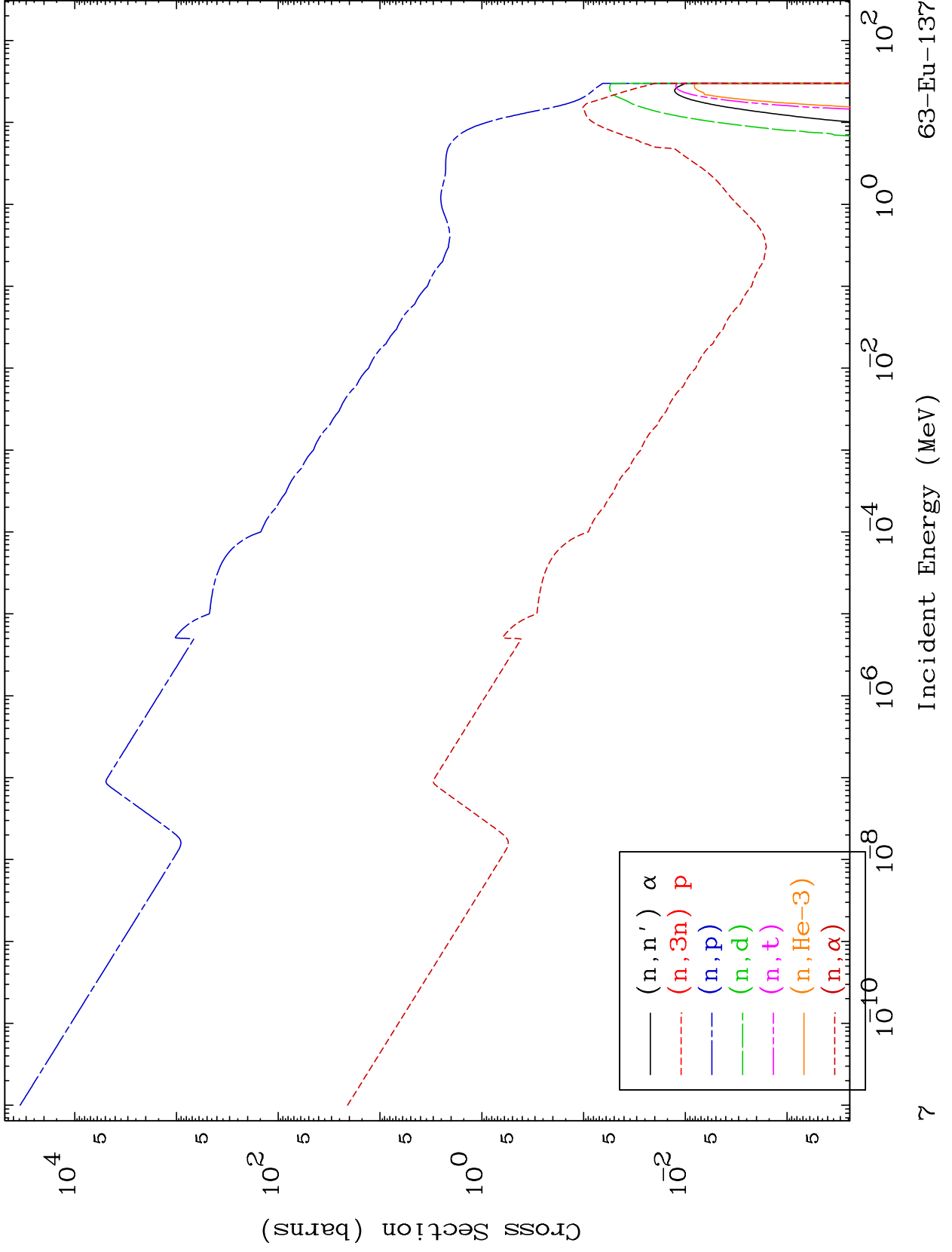
63-Eu-137



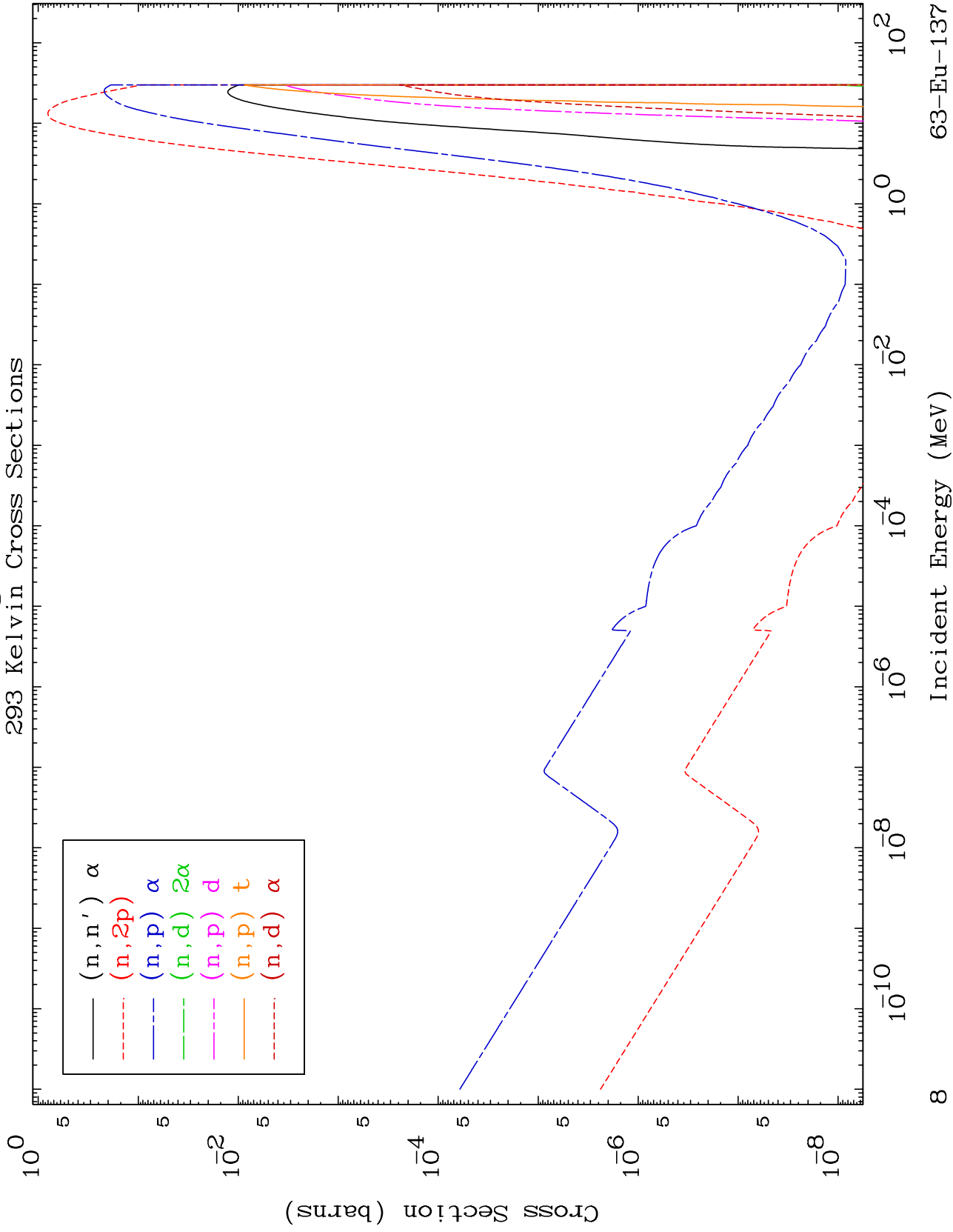
MAT 6283

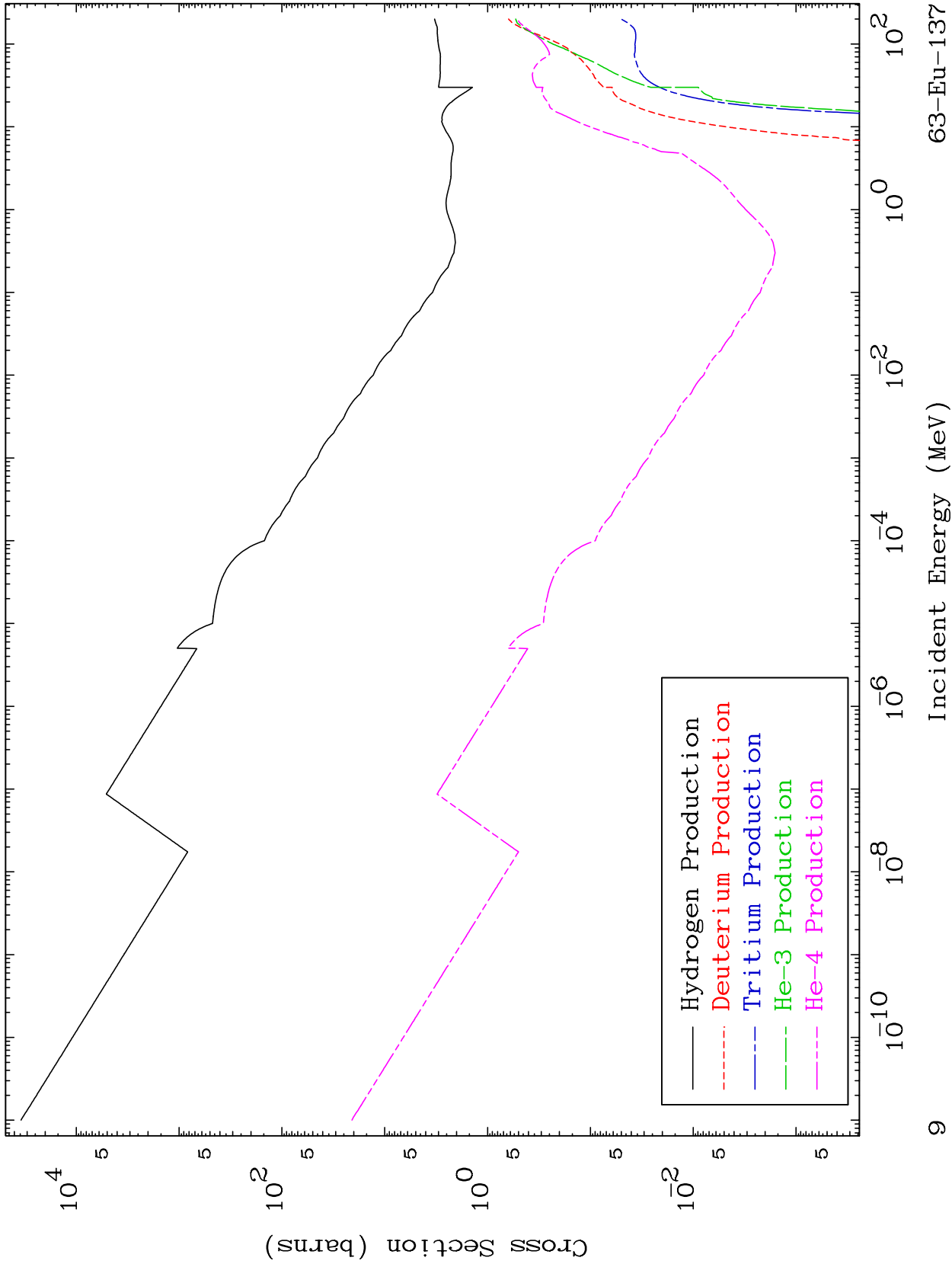
Charged Particle  
293 Kelvin Cross Sections

63-Eu-137





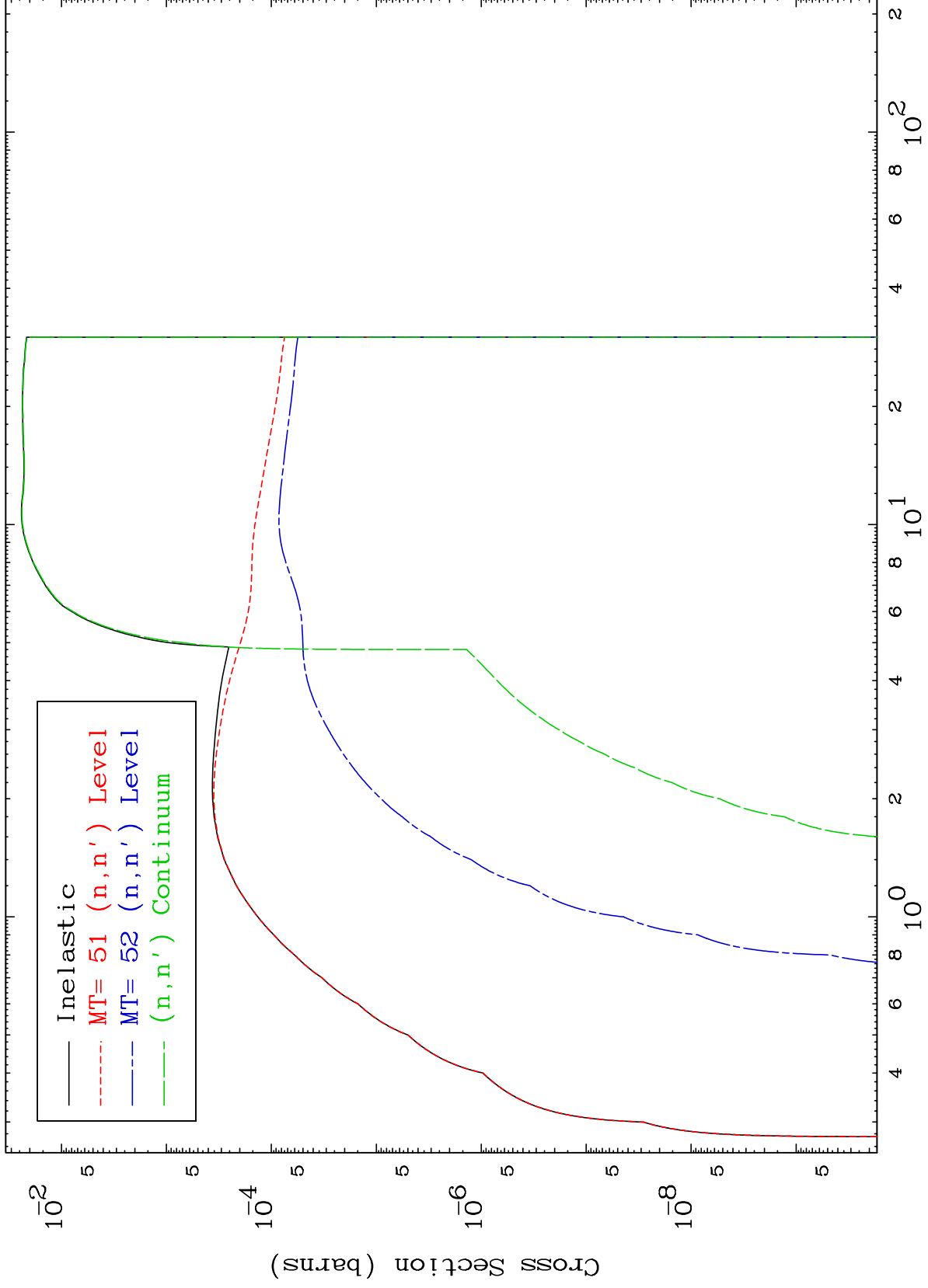




MAT 6283

63-Eu-137

(n,n') Levels  
293 Kelvin Cross Sections



10

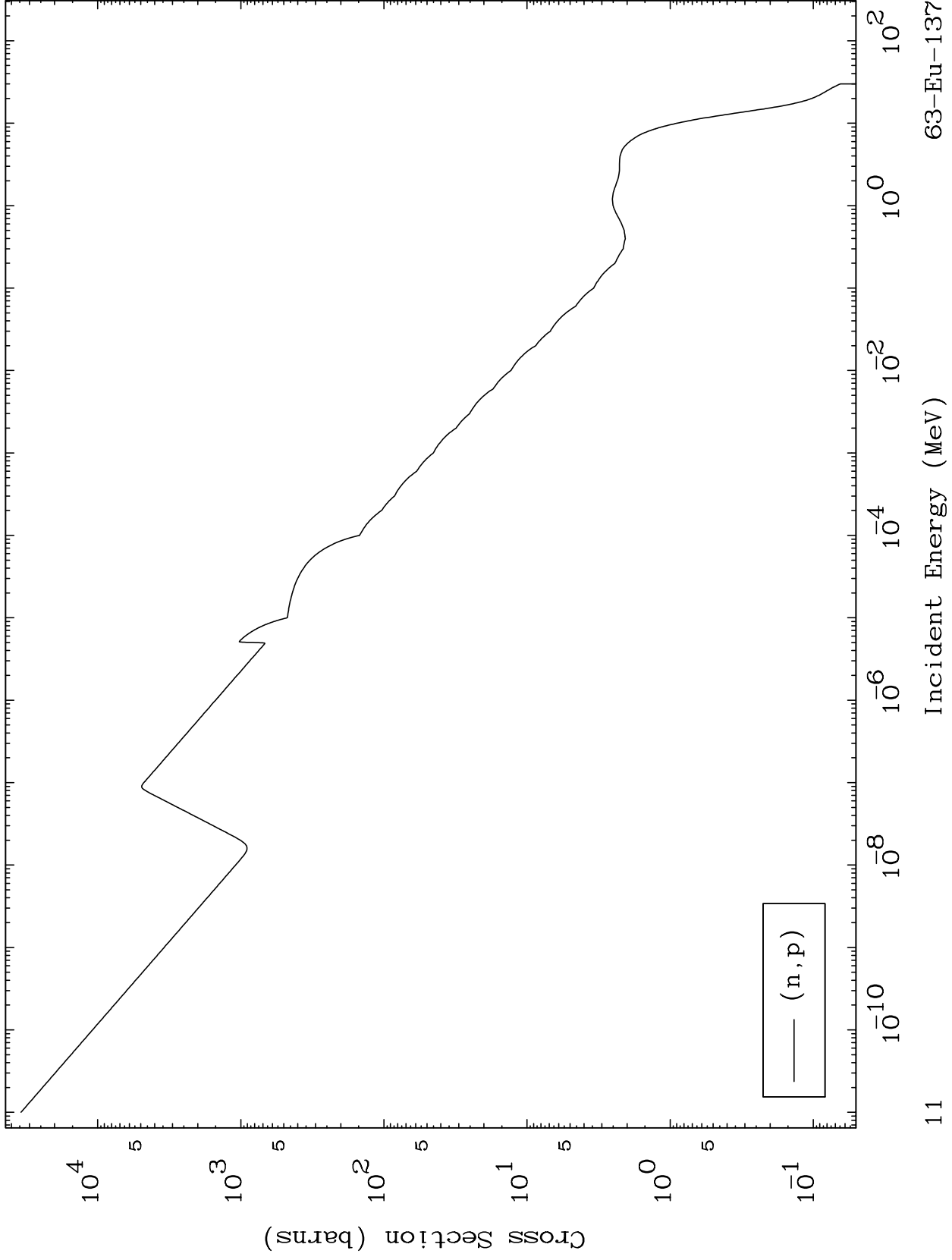
Incident Energy (MeV)

63-Eu-137

MAT 6283

(n,p) Levels  
293 Kelvin Cross Sections

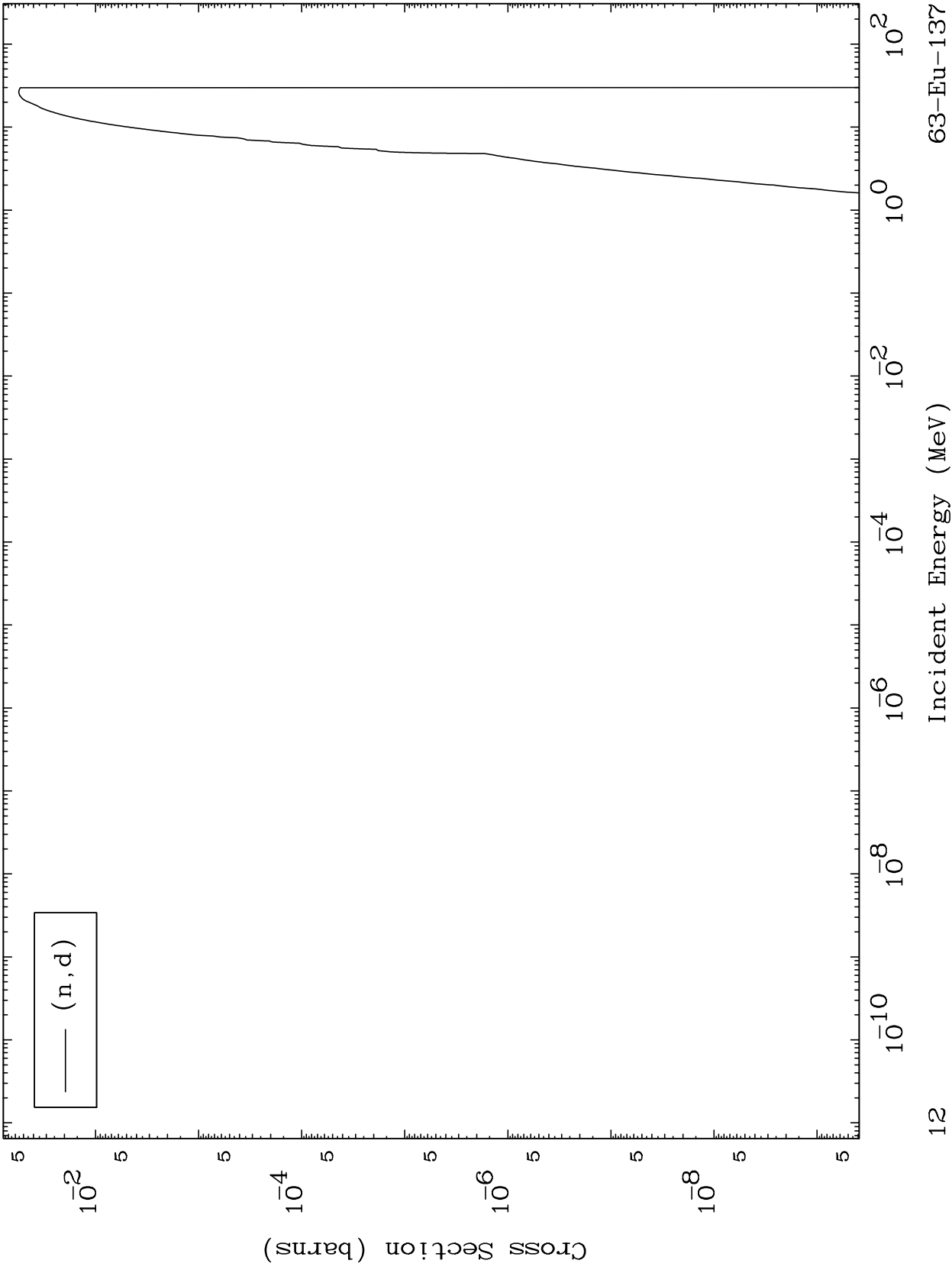
63-Eu-137



MAT 6283

(n,d) Levels  
293 Kelvin Cross Sections

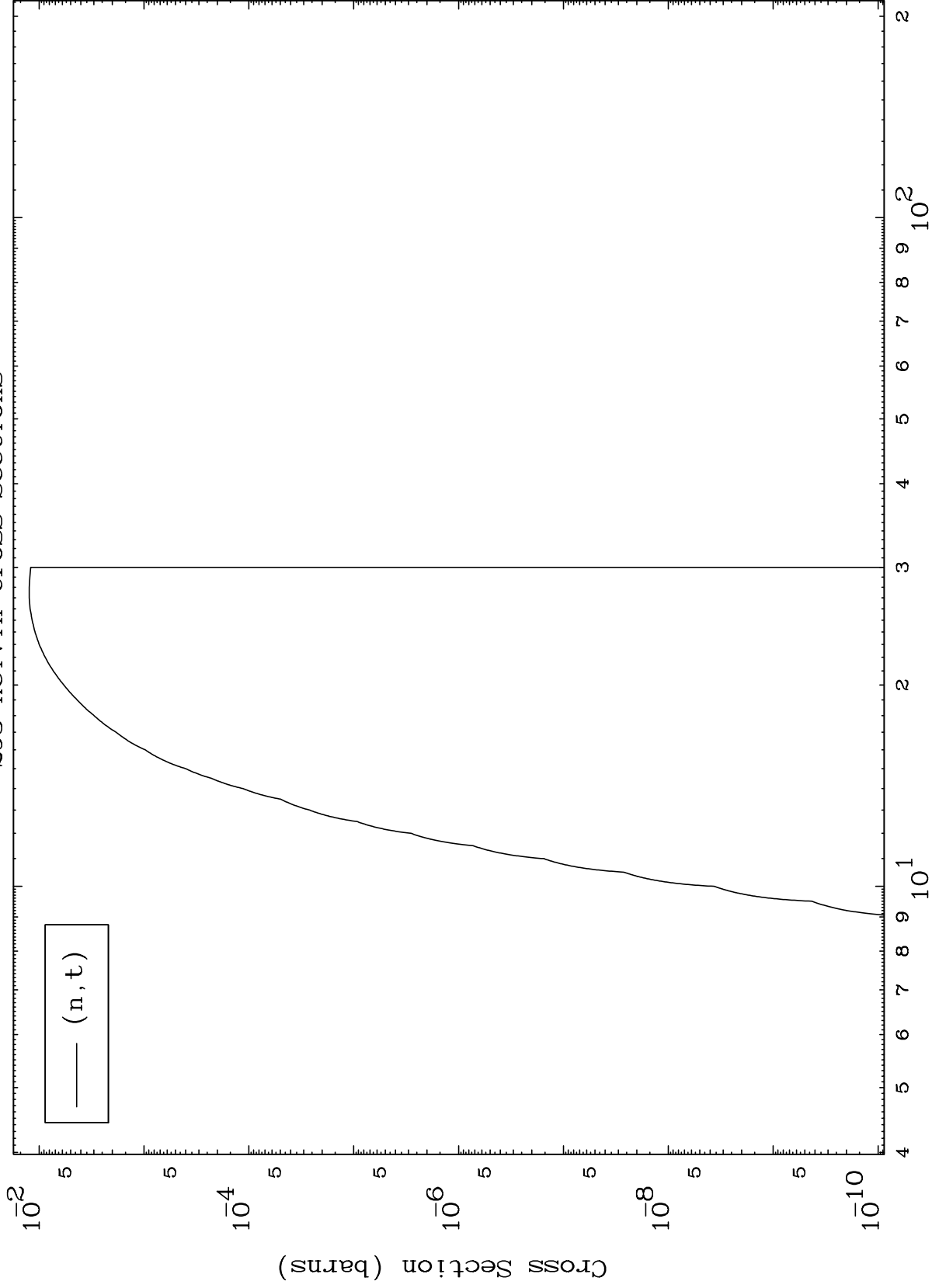
63-Eu-137



MAT 6283

(n,t) Levels  
293 Kelvin Cross Sections

63-Eu-137



13

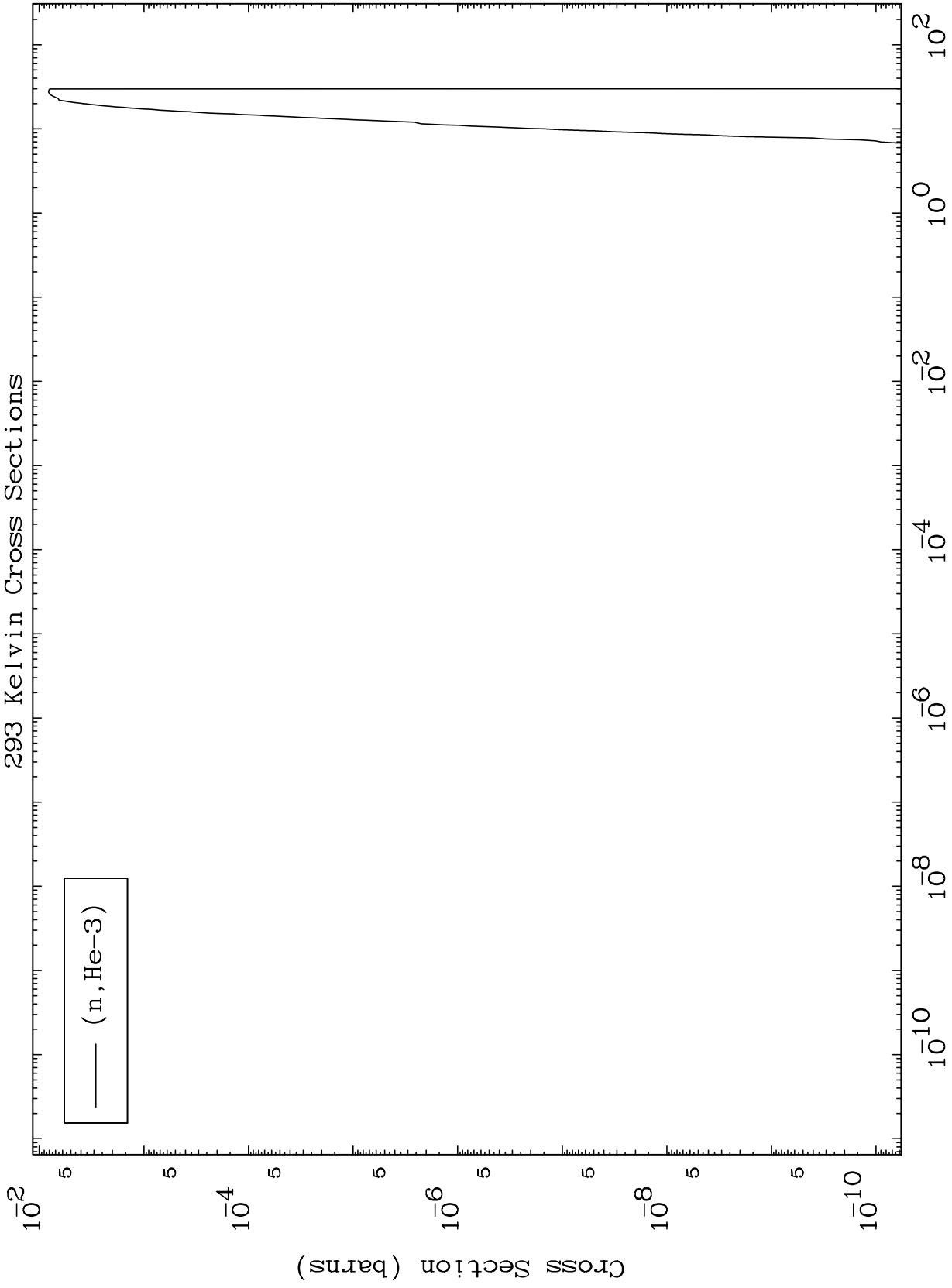
Incident Energy (MeV)

63-Eu-137

MAT 6283

(n,He3) Levels  
293 Kelvin Cross Sections

63-Eu-137



14

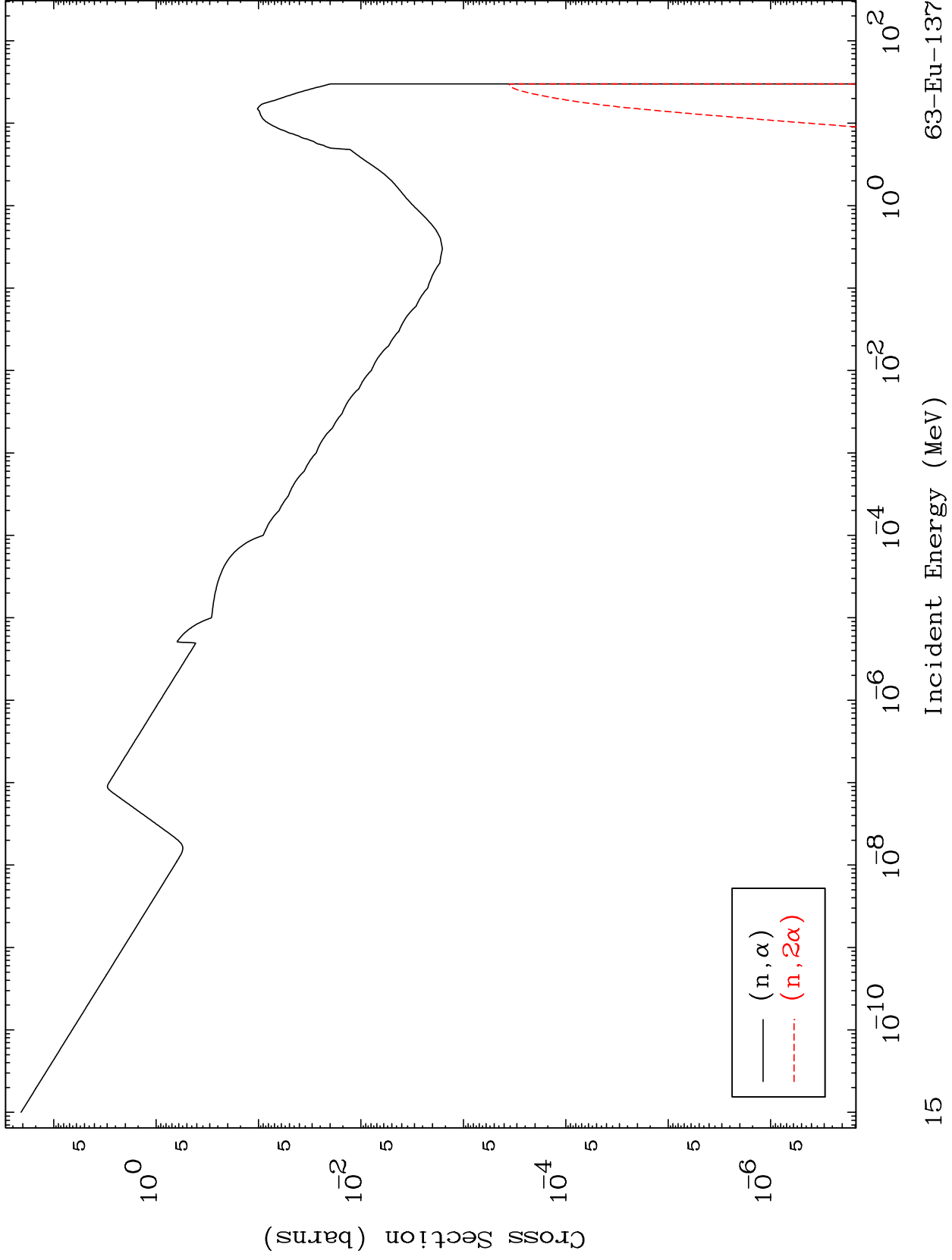
Incident Energy (MeV)

63-Eu-137

MAT 6283

(n,α) Levels  
293 Kelvin Cross Sections

63-Eu-137

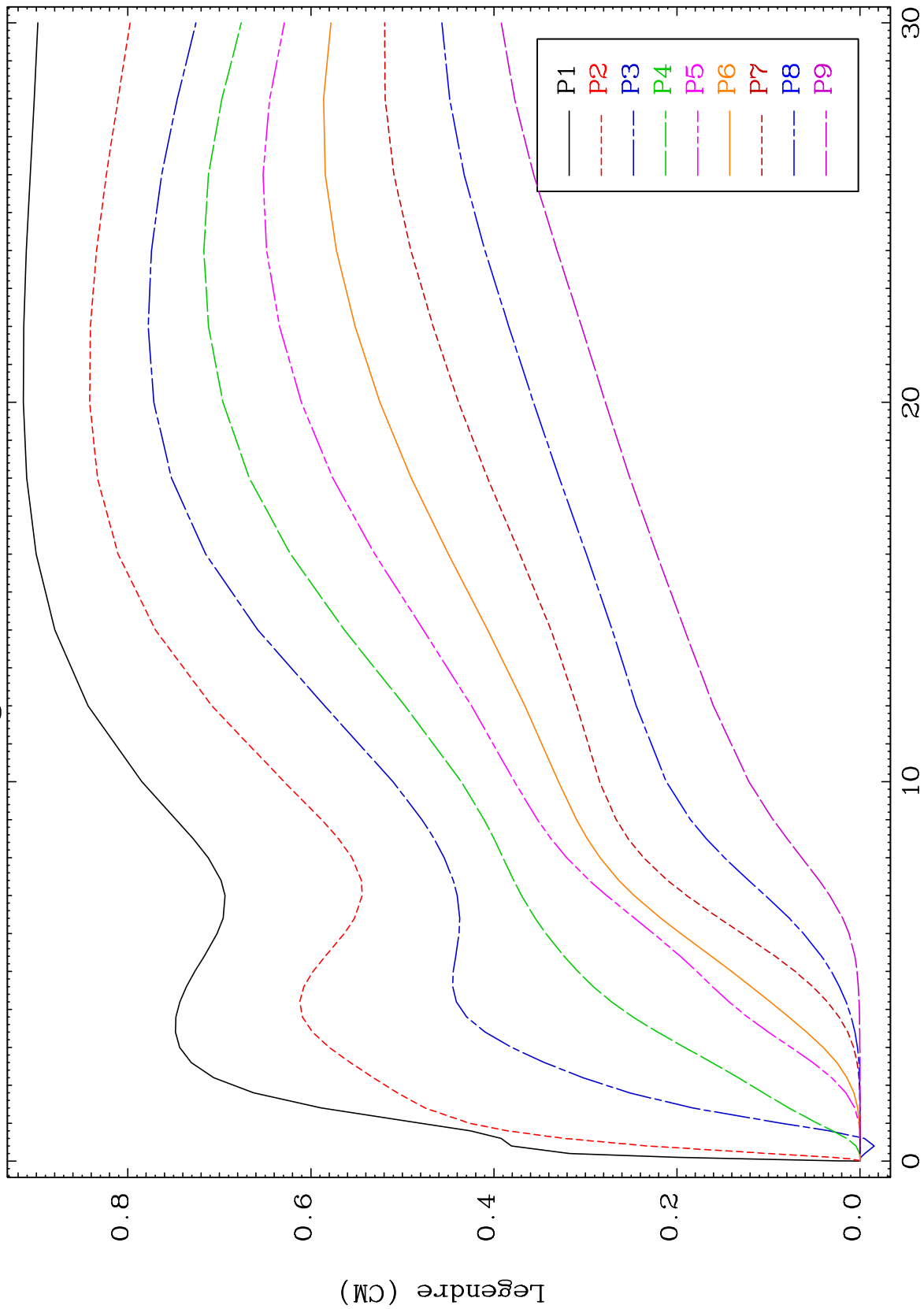




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Elastic Legendre Coefficients

63-Eu-137



16

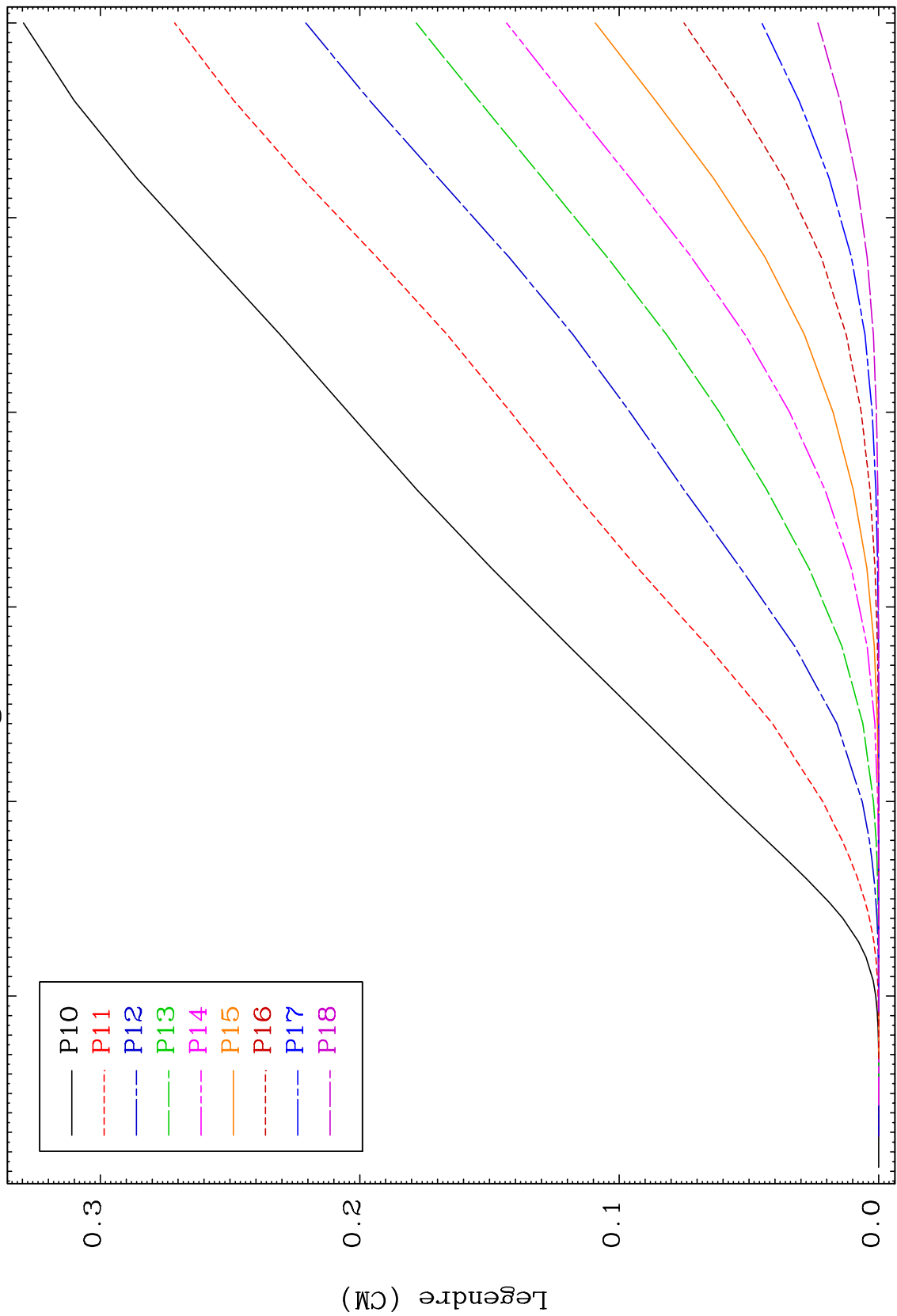
Incident Energy (MeV)

63-Eu-137

MAT 6283

Elastic Legendre Coefficients

63-Eu-137



17

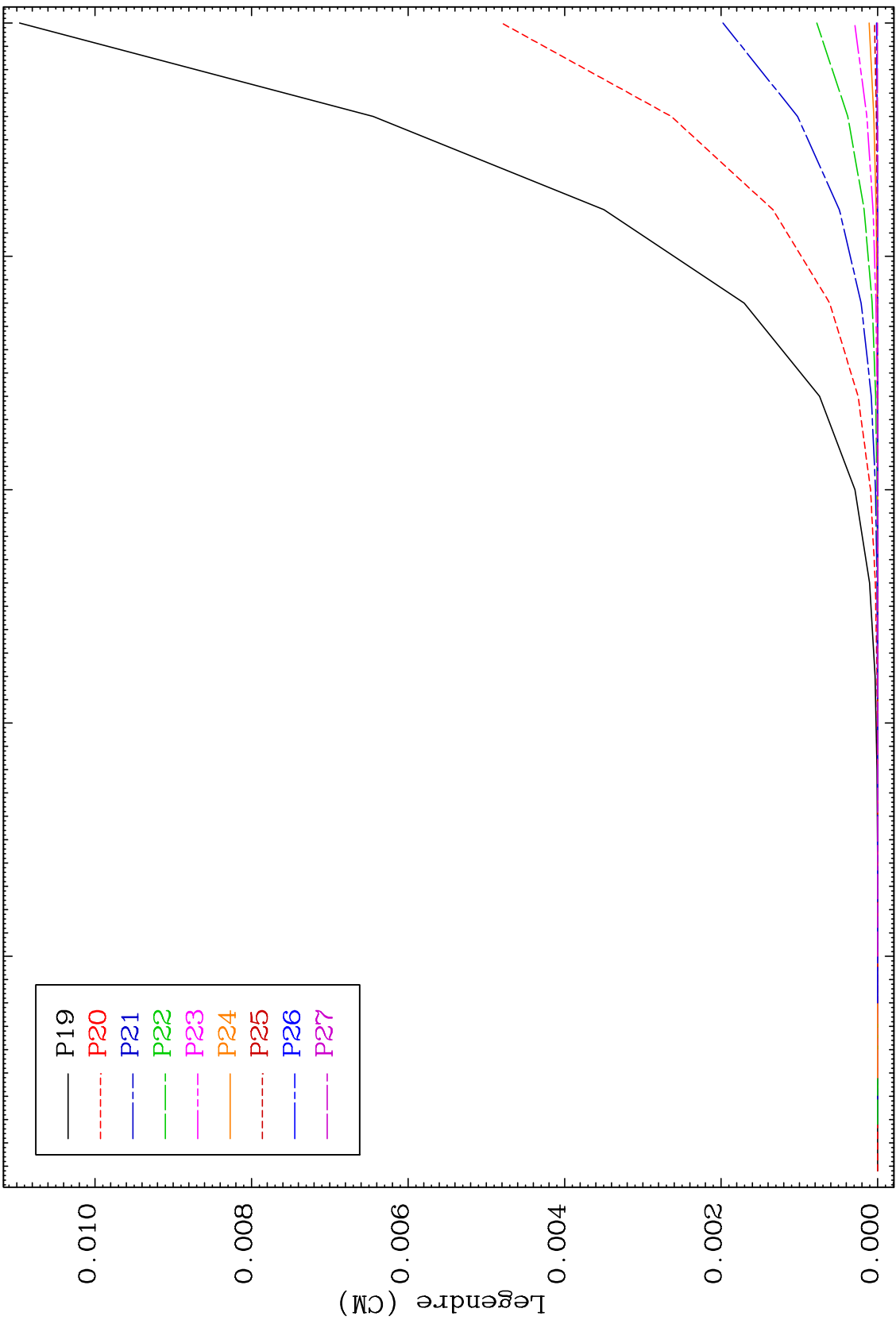
Incident Energy (MeV)

63-Eu-137

MAT 6283

### Elastic Legendre Coefficients

63-Eu-137



18

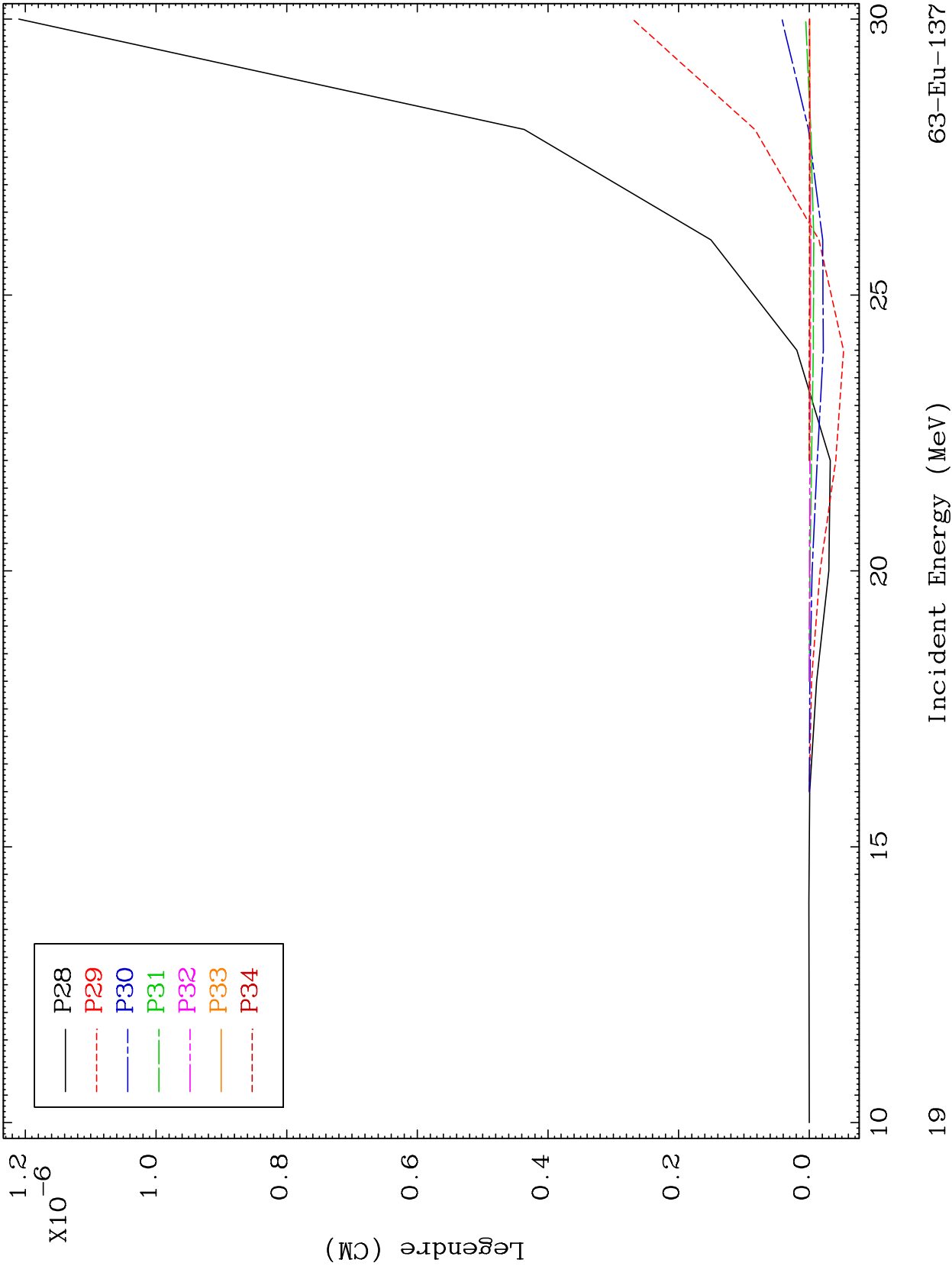
Incident Energy (MeV)

63-Eu-137

MAT 6283

Elastic Legendre Coefficients

63-Eu-137



63-Eu-137

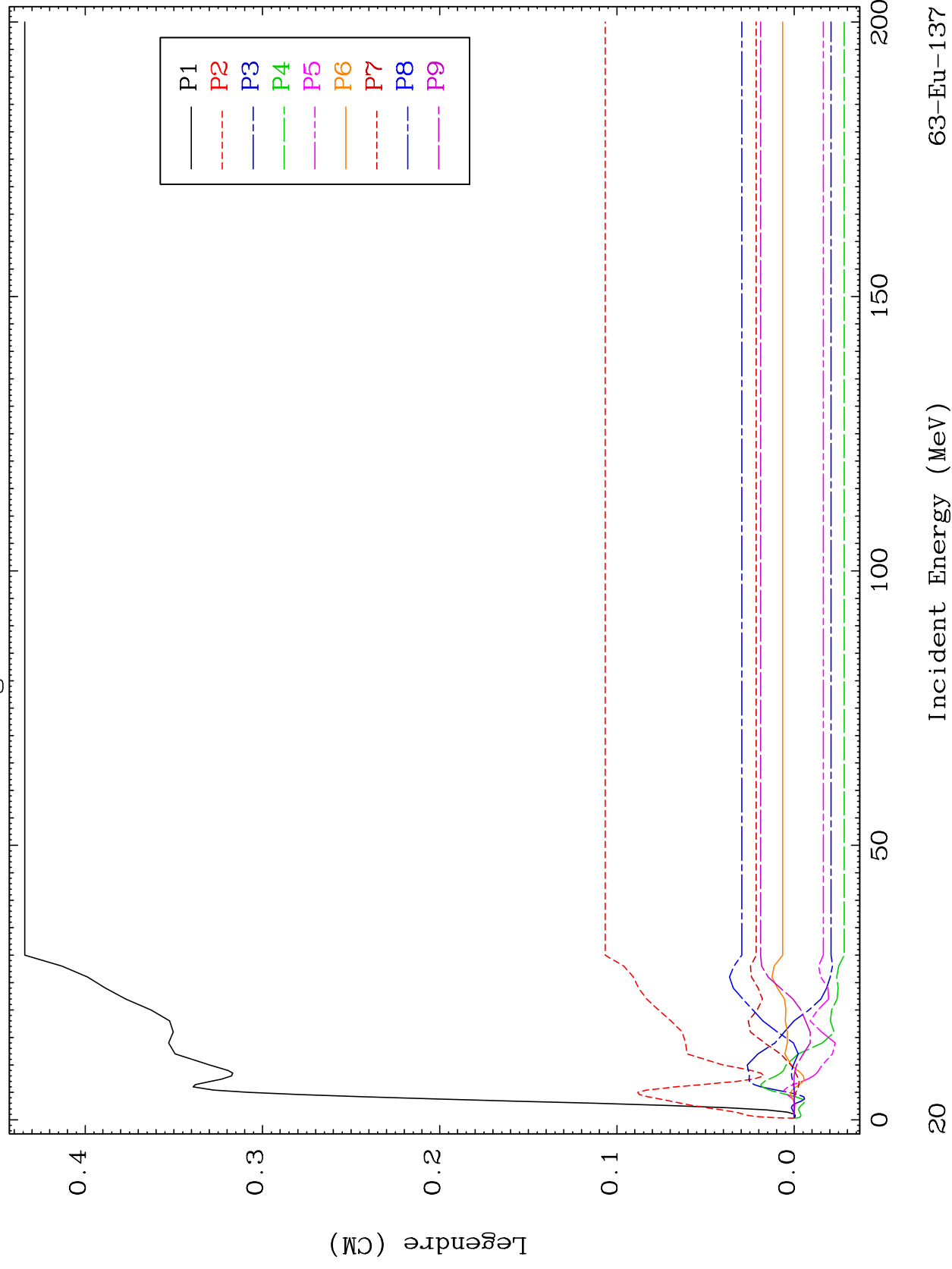
Incident Energy (MeV)

19

MAT 6283

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

63-Eu-137

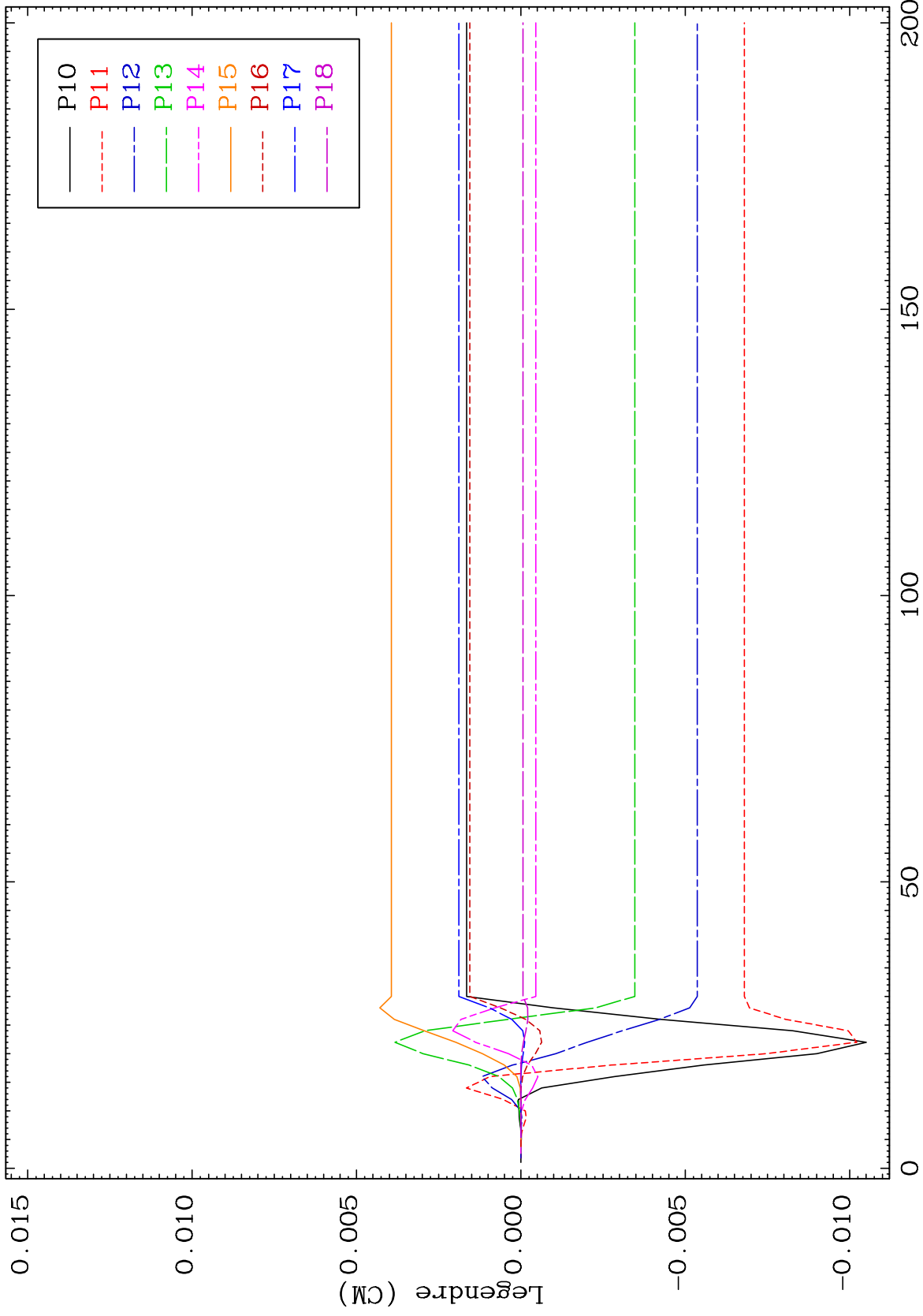


63-Eu-137

MAT 6283

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

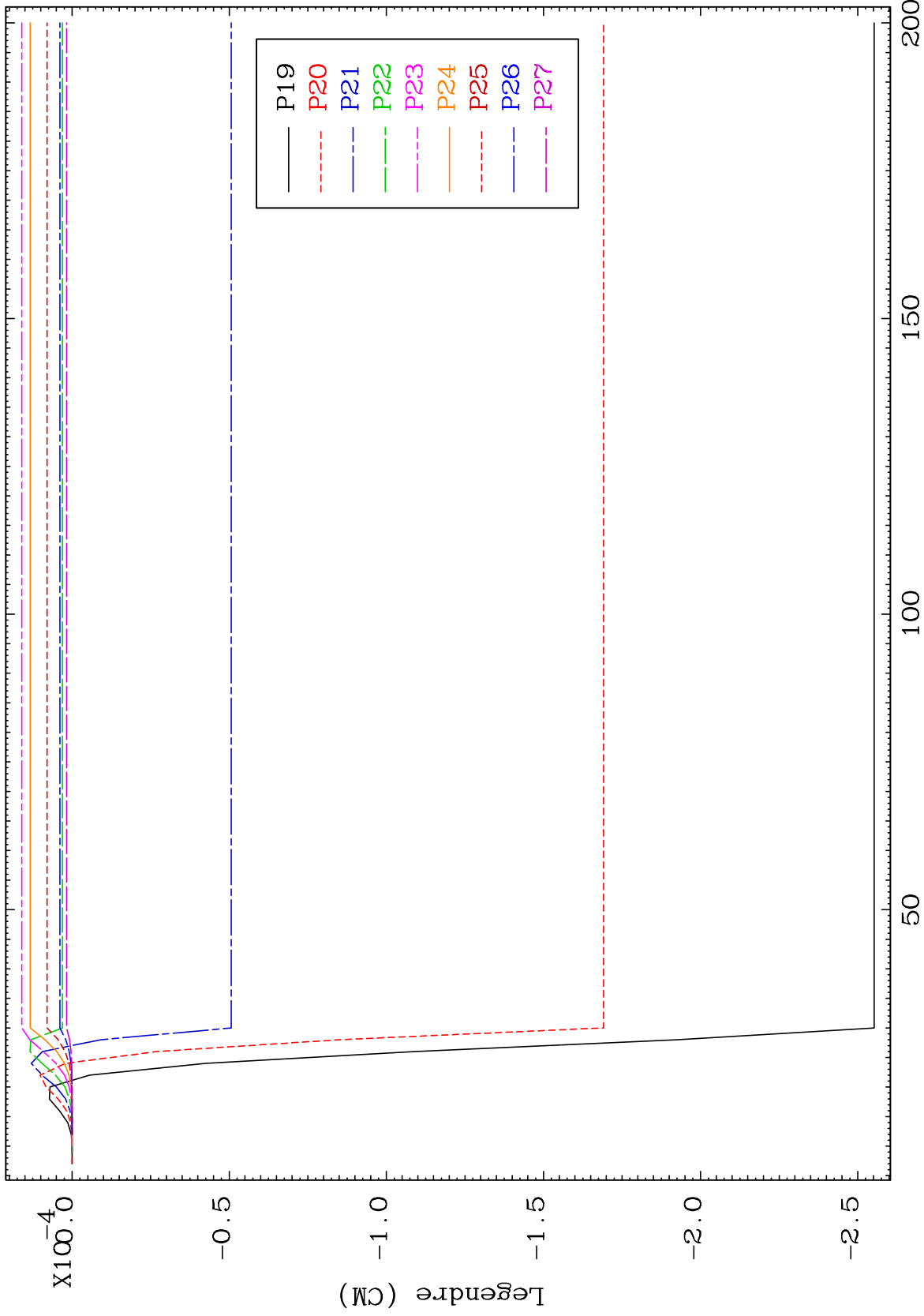
63-Eu-137



21

Incident Energy (MeV)

63-Eu-137



MAT 6283

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

63-Eu-137

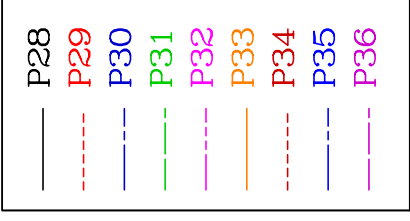
$\times 10^{-7}$

6

4

2

0



50

100

150

200

Legendre (CM)

23

Incident Energy (MeV)

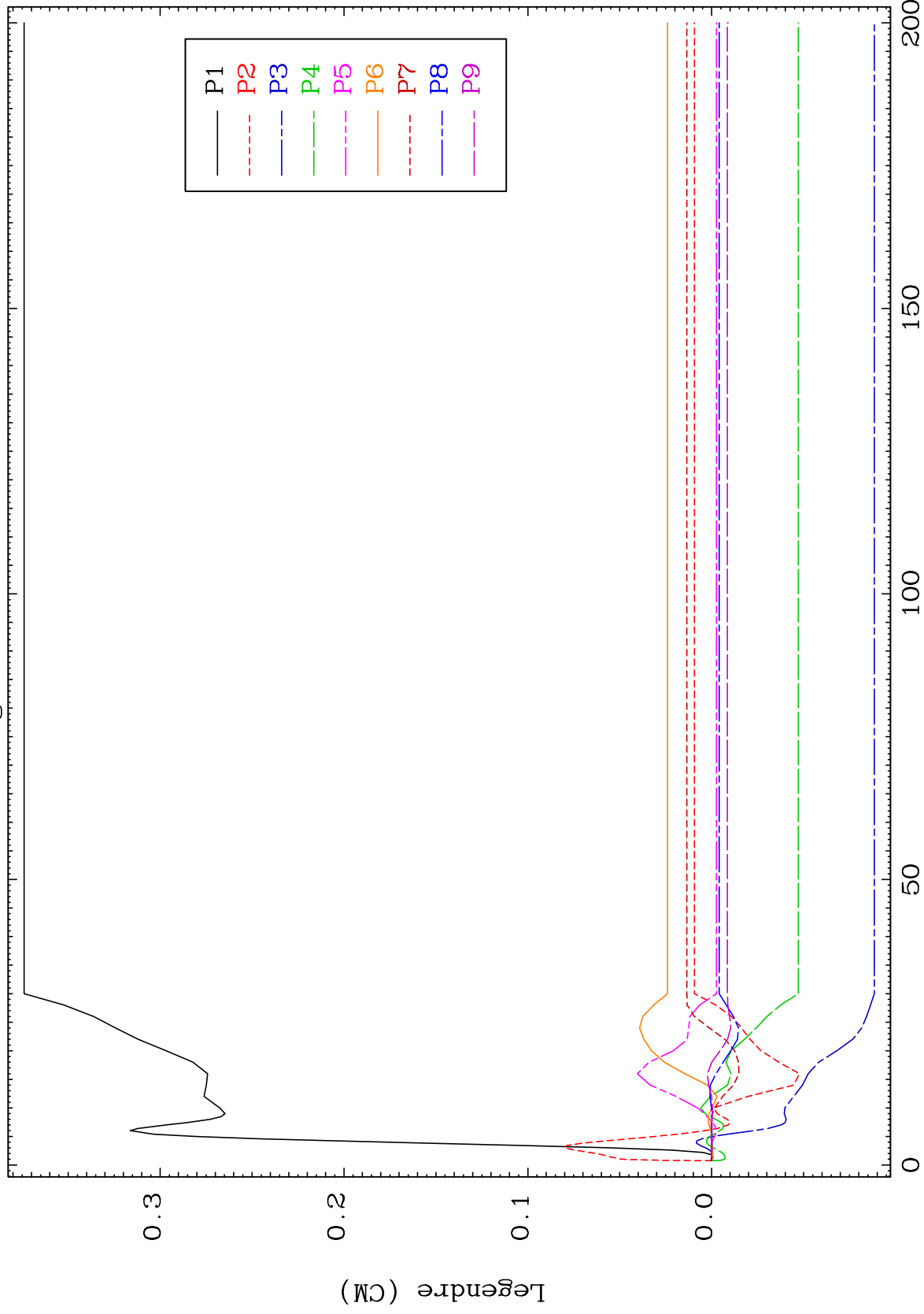
63-Eu-137



MAT 6283

MT= 52 (n,n') Level  
Legendre Coefficients

63-Eu-137



24

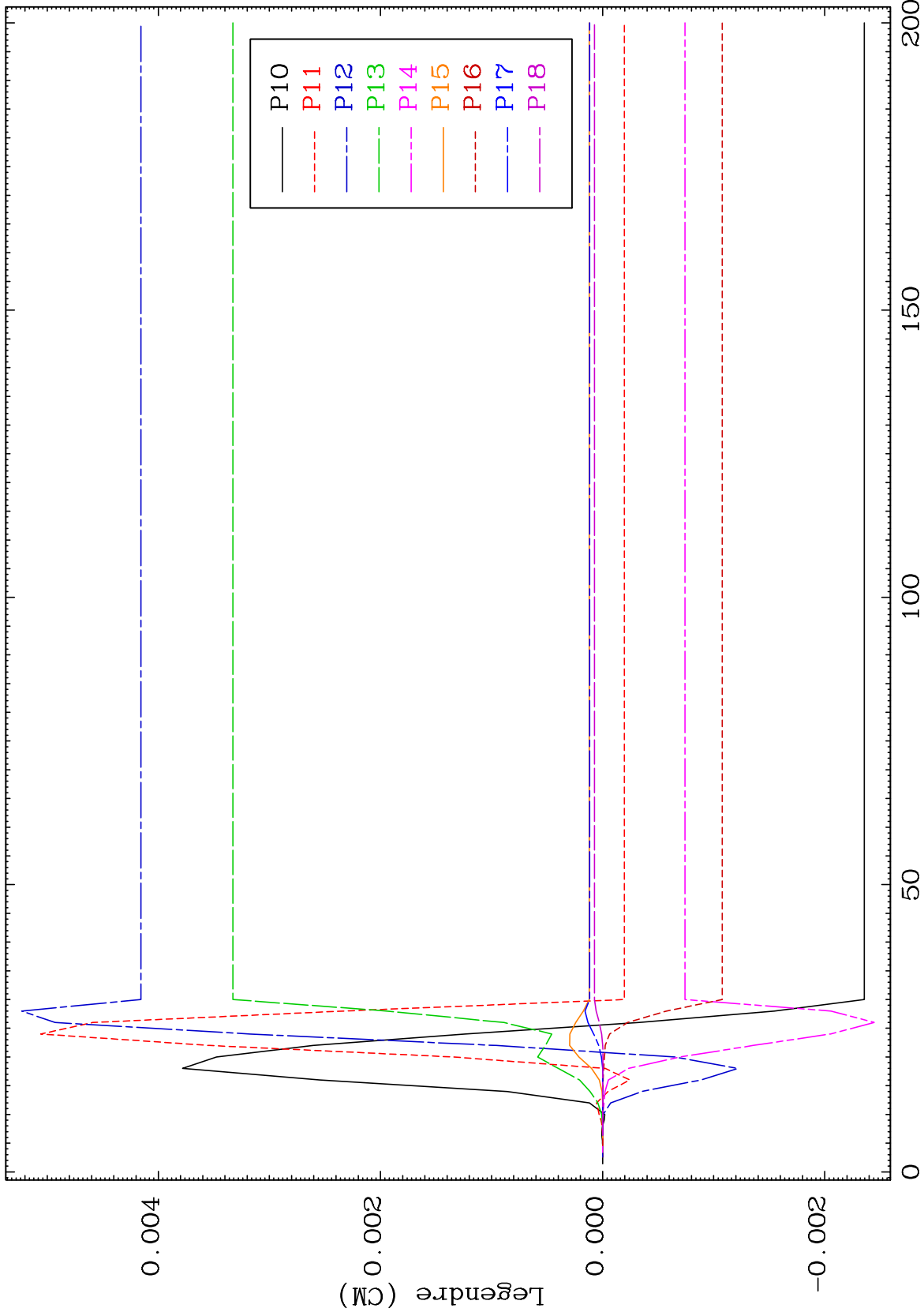
Incident Energy (MeV)

63-Eu-137

MAT 6283

MT= 52 (n,n') Level  
Legendre Coefficients

63-Eu-137



25

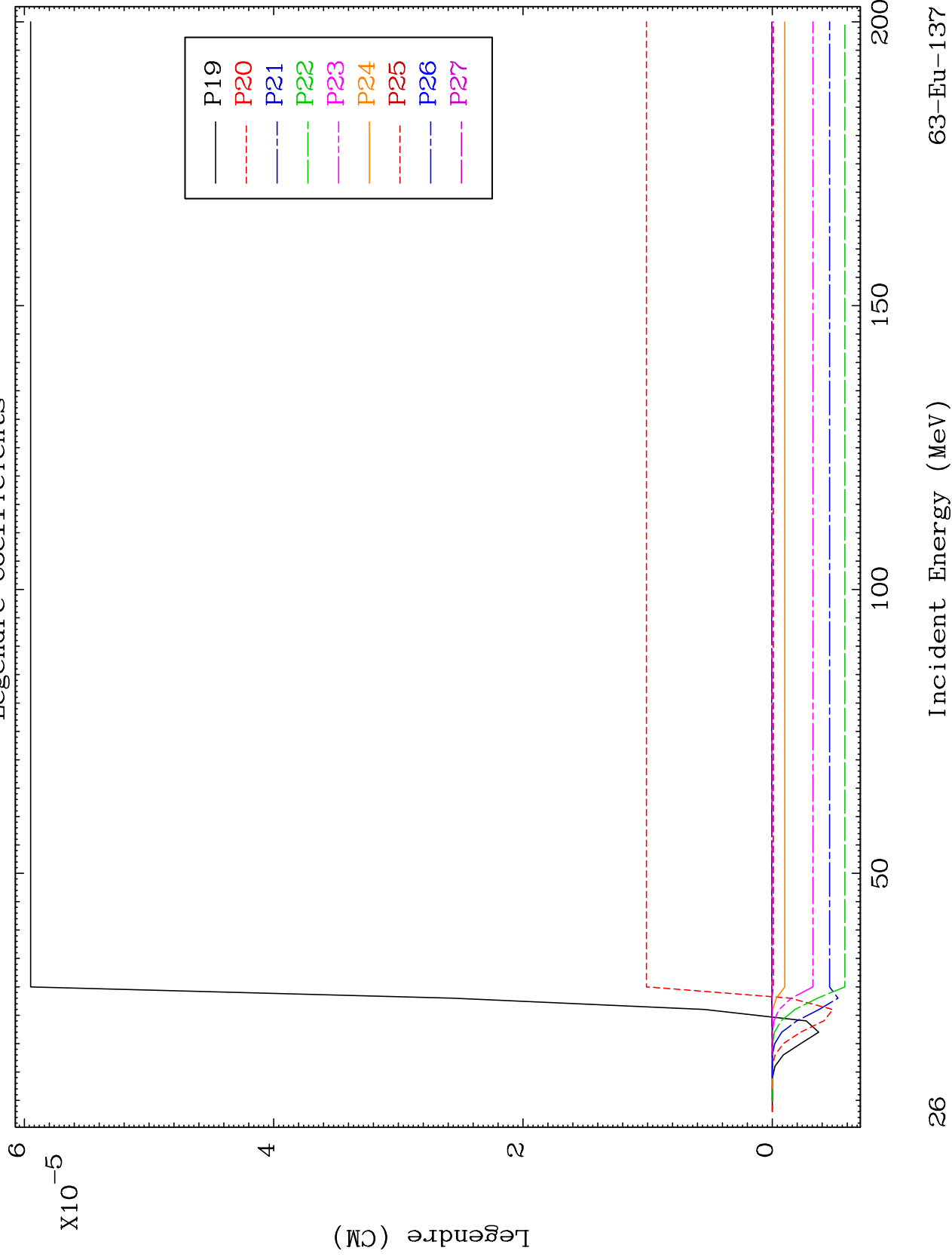
Incident Energy (MeV)

63-Eu-137

MAT 6283

MT= 52 (n,n') Level  
Legendre Coefficients

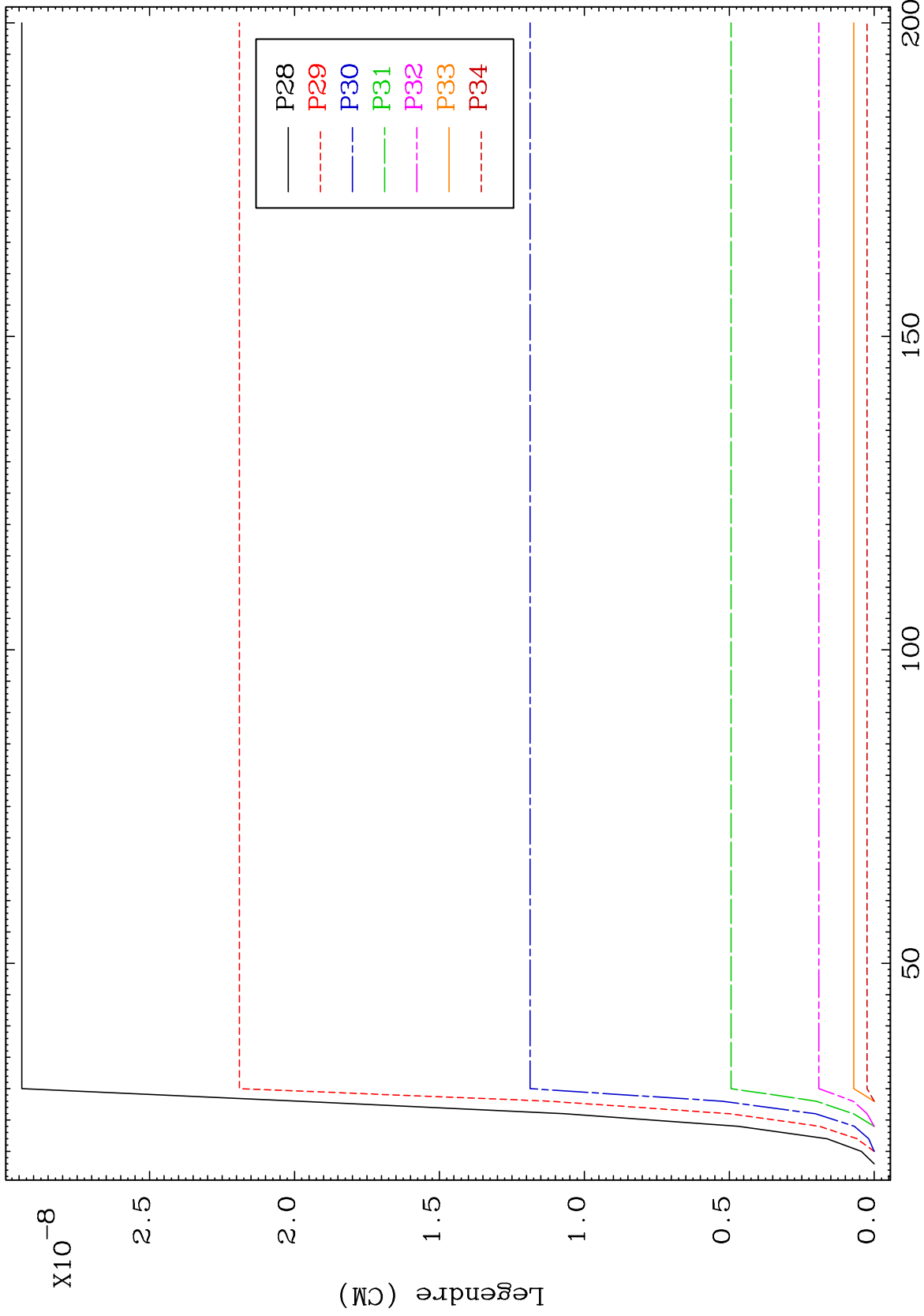
63-Eu-137



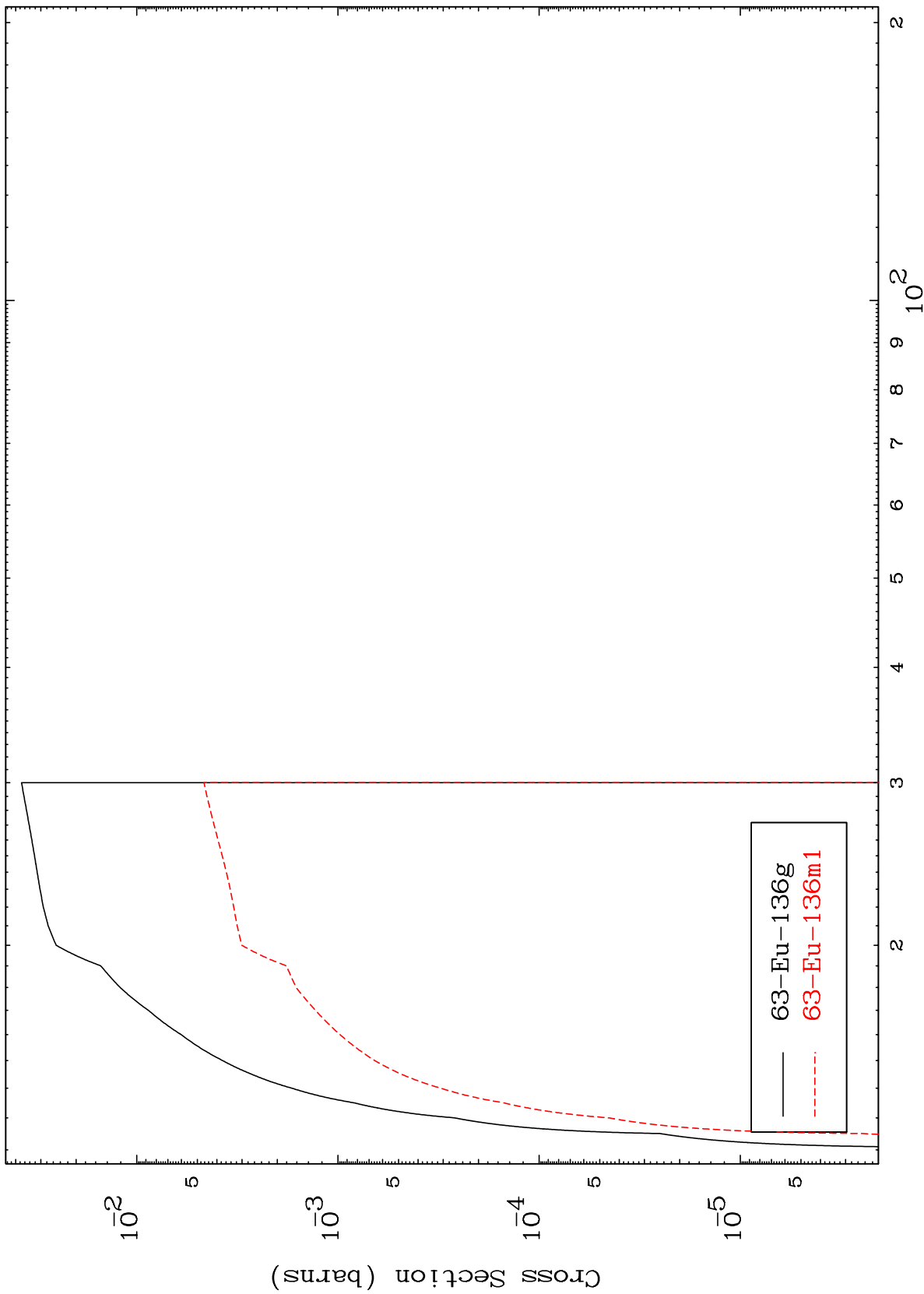
26

Incident Energy (MeV)

63-Eu-137



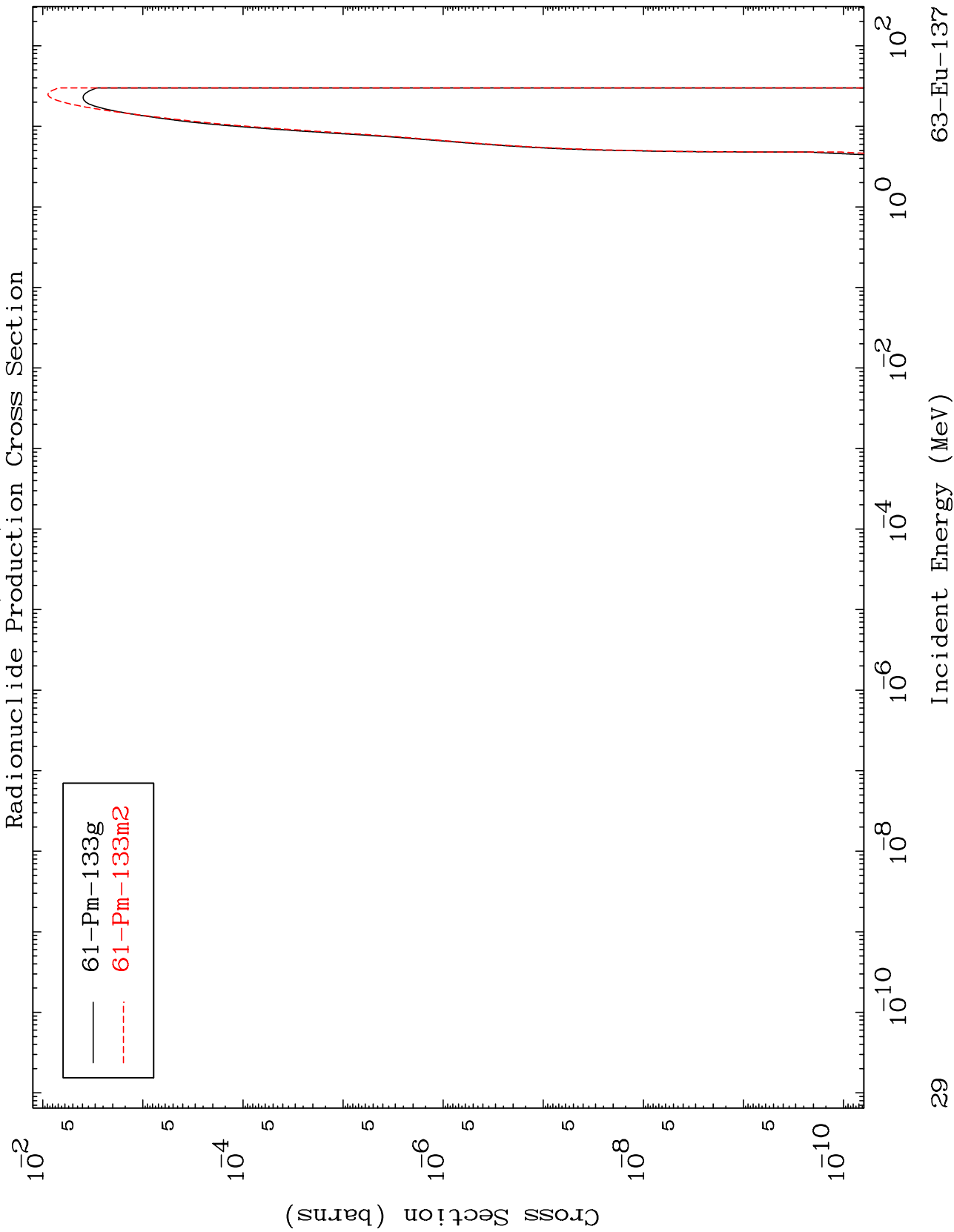
Radionuclide Production Cross Section  
(n,2n)



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$(n, n') \alpha$

$^{63}\text{Eu}-137$

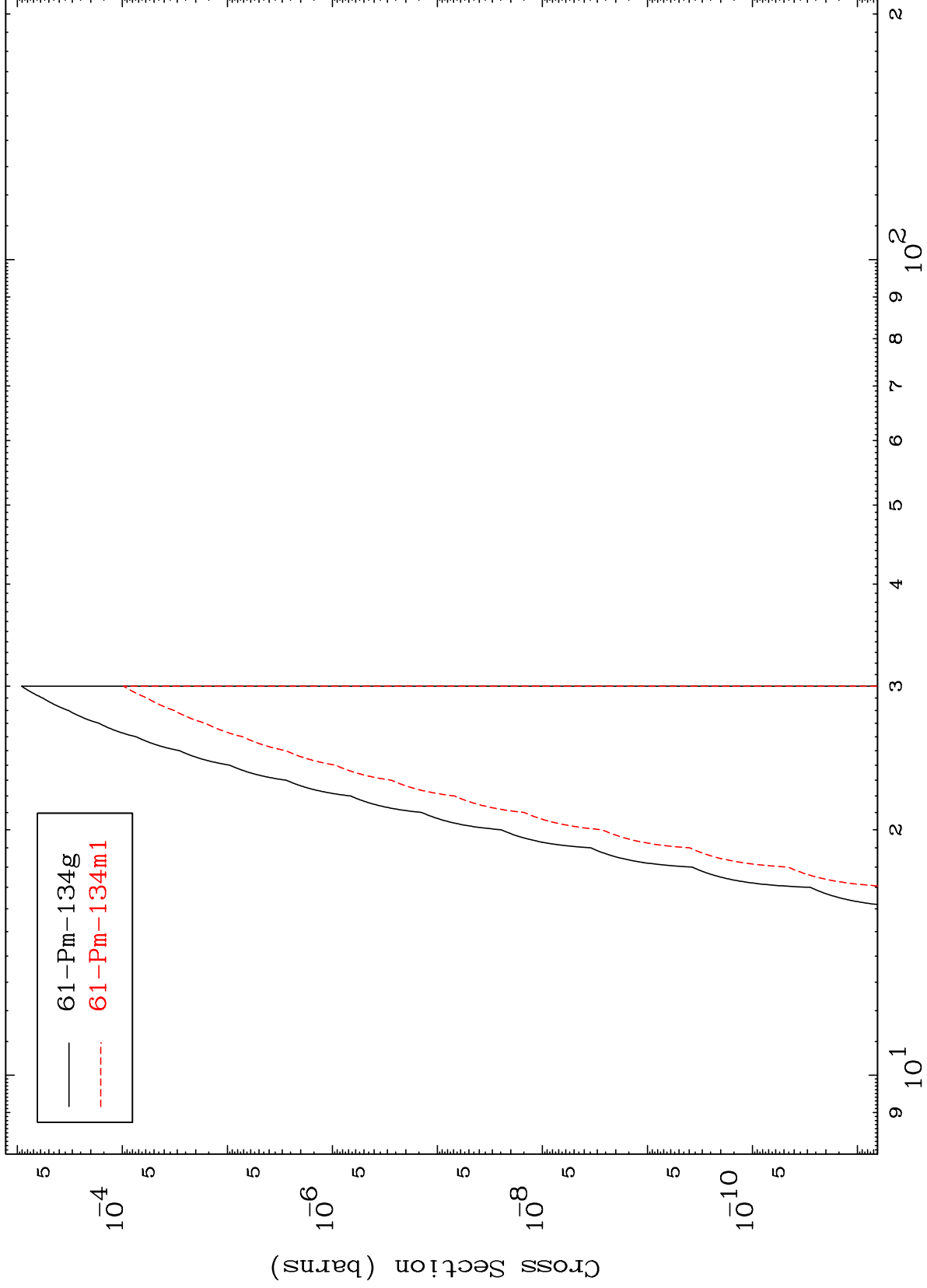


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(n,n') He-3

63-Eu-137

Radionuclide Production Cross Section



63-Eu-137

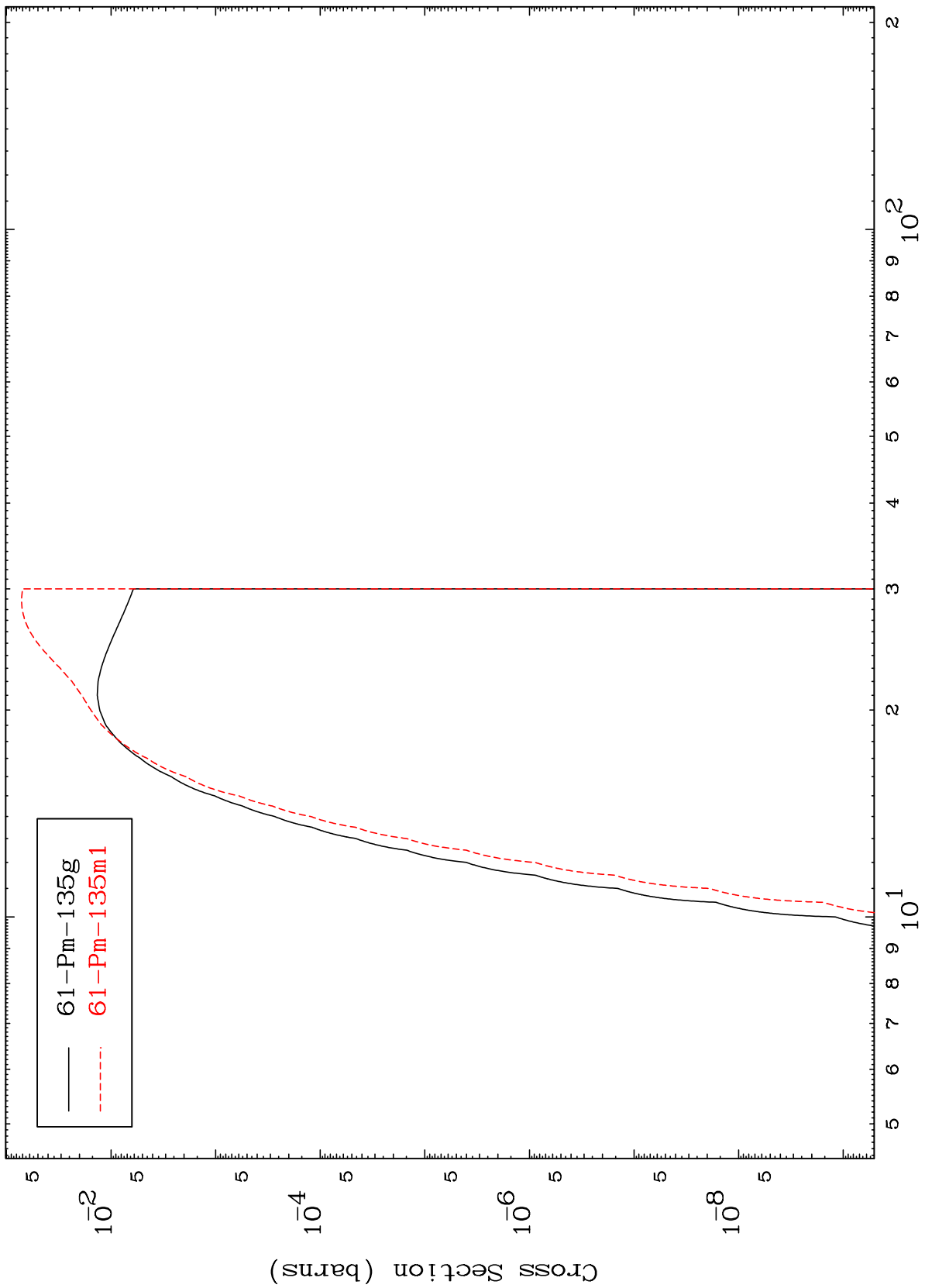
30

MAT 6283

63-Eu-137

(n,2n) p

Radionuclide Production Cross Section



31

Incident Energy (MeV)

63-Eu-137

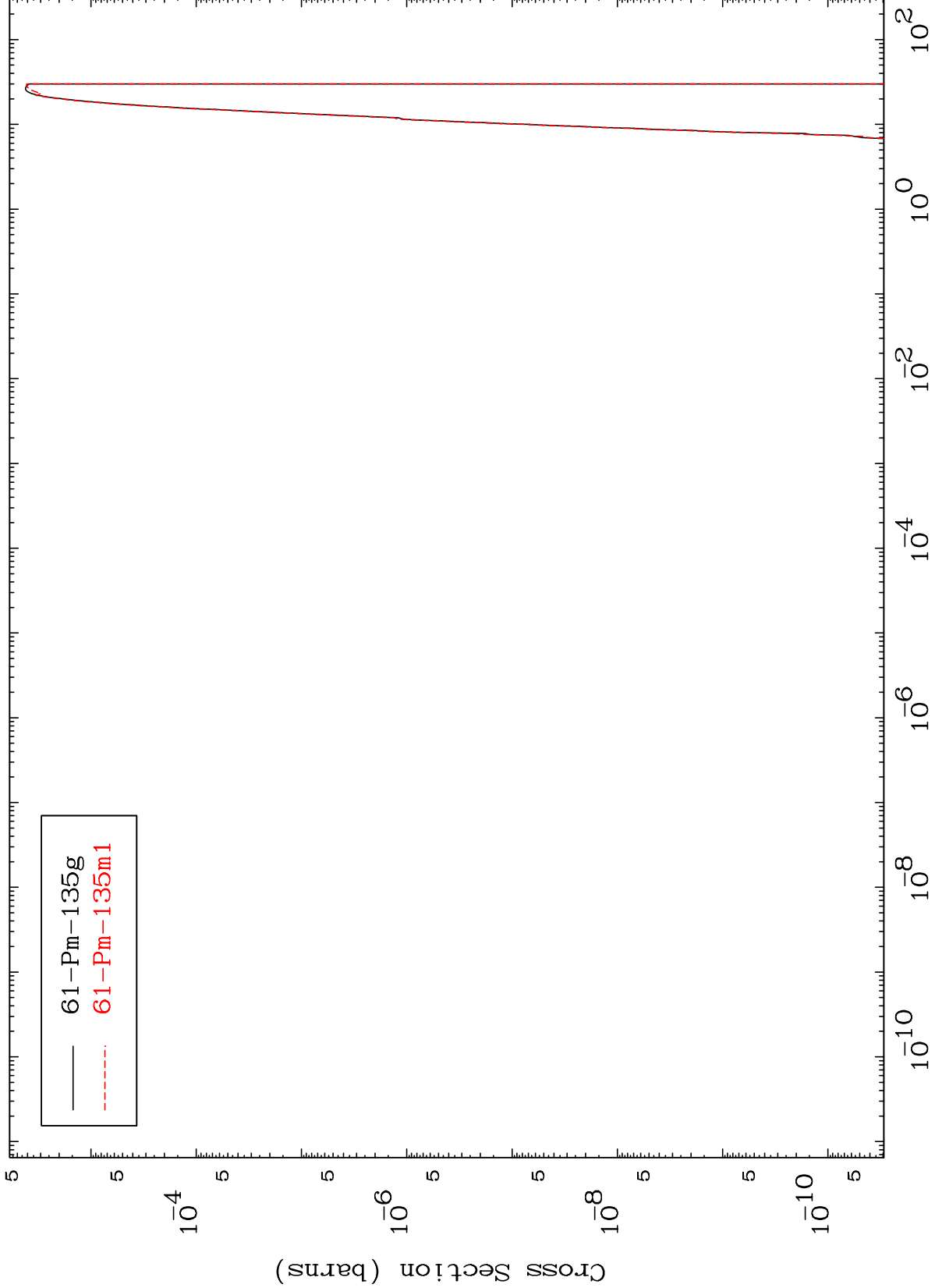


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(n,He-3)

63-Eu-137

Radionuclide Production Cross Section



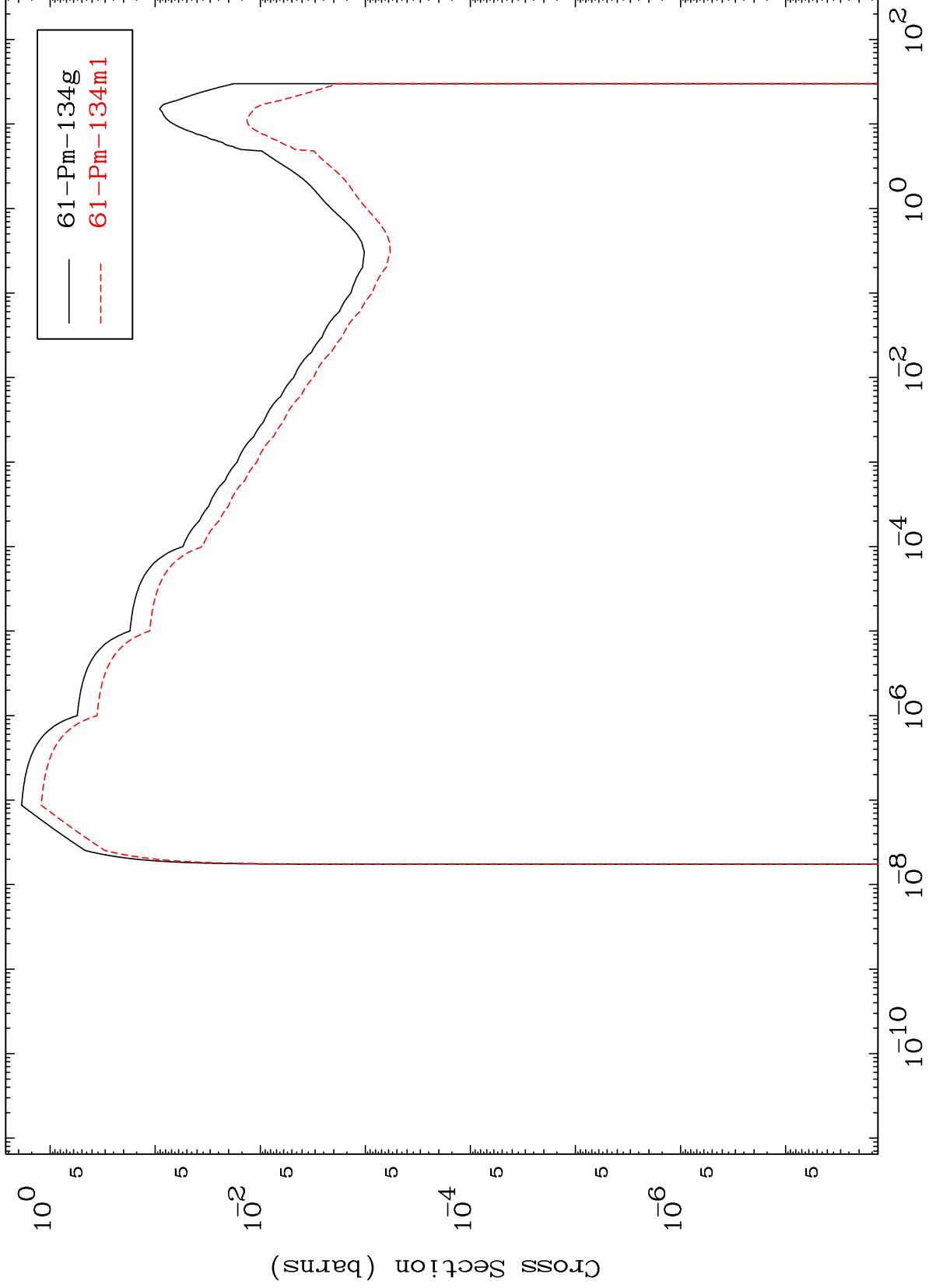
61-Pm-135g  
61-Pm-135m1

32

Incident Energy (MeV)

63-Eu-137

(n,  $\alpha$ )  
Radionuclide Production Cross Section

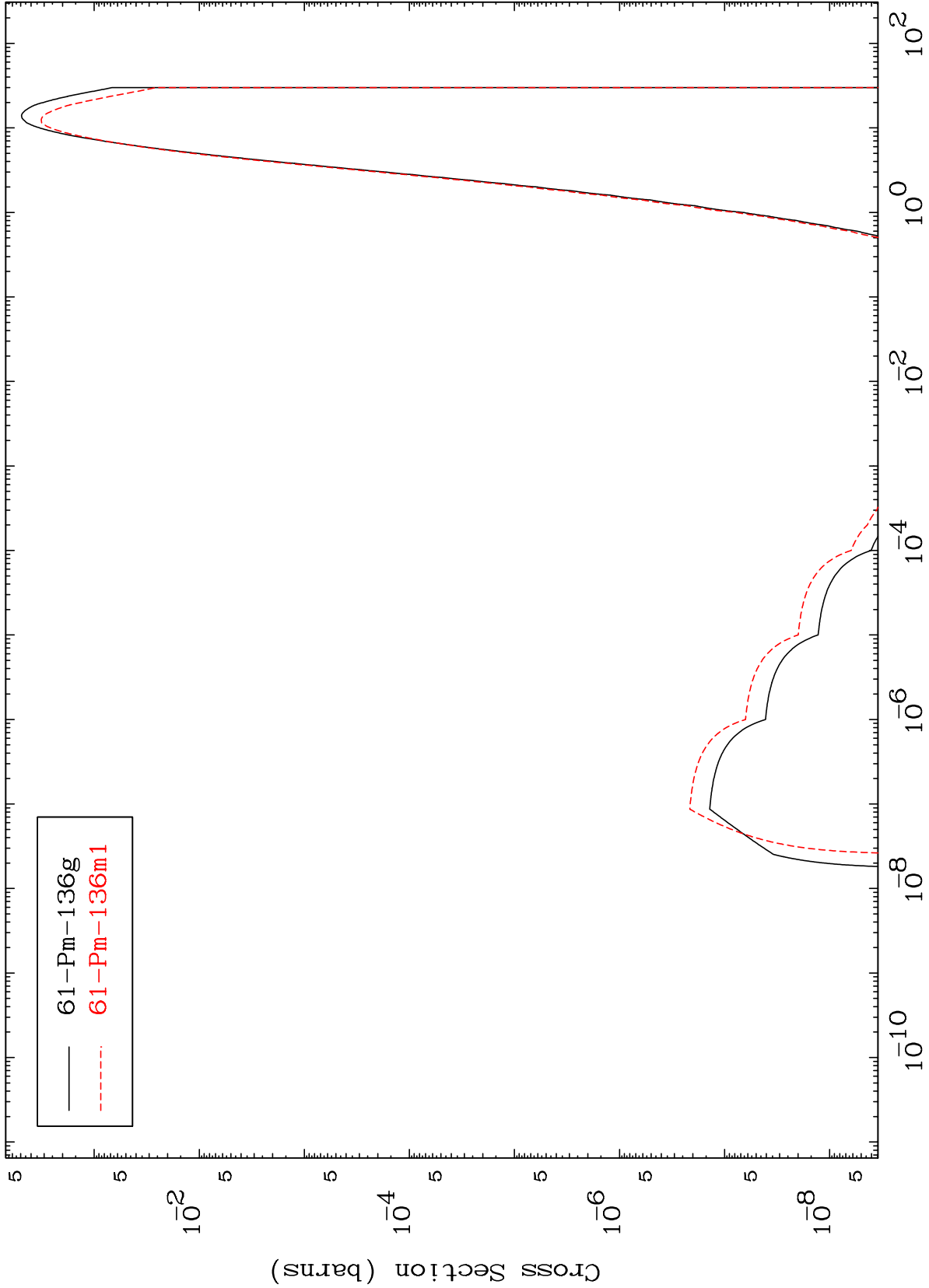


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(n,2p)

63-Eu-137

Radionuclide Production Cross Section



34

Incident Energy (MeV)

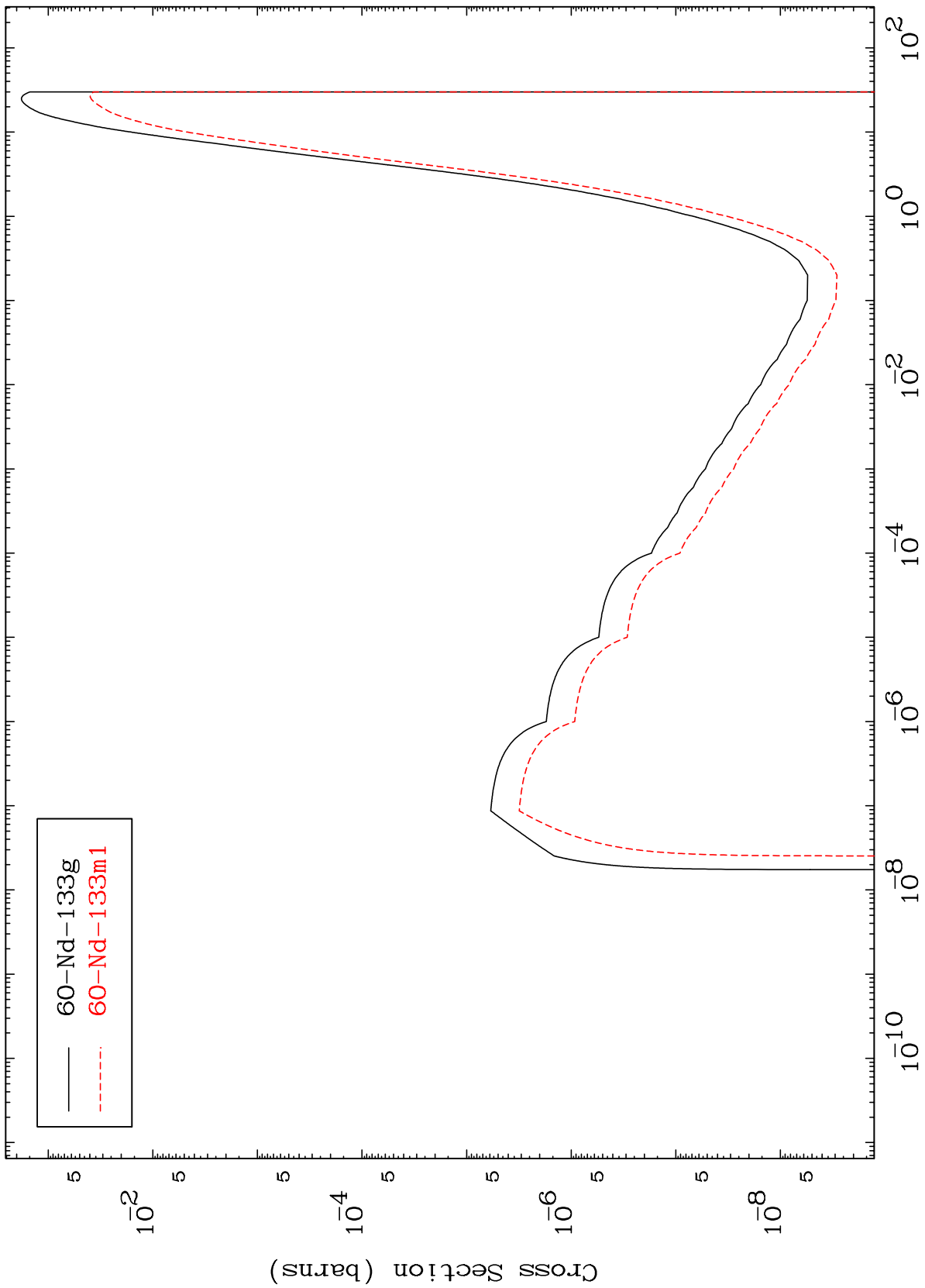
63-Eu-137

MAT 6283

(n,p)  $\alpha$

$^{63}\text{Eu}-137$

Radionuclide Production Cross Section



60-Nd-133g  
60-Nd-133m1

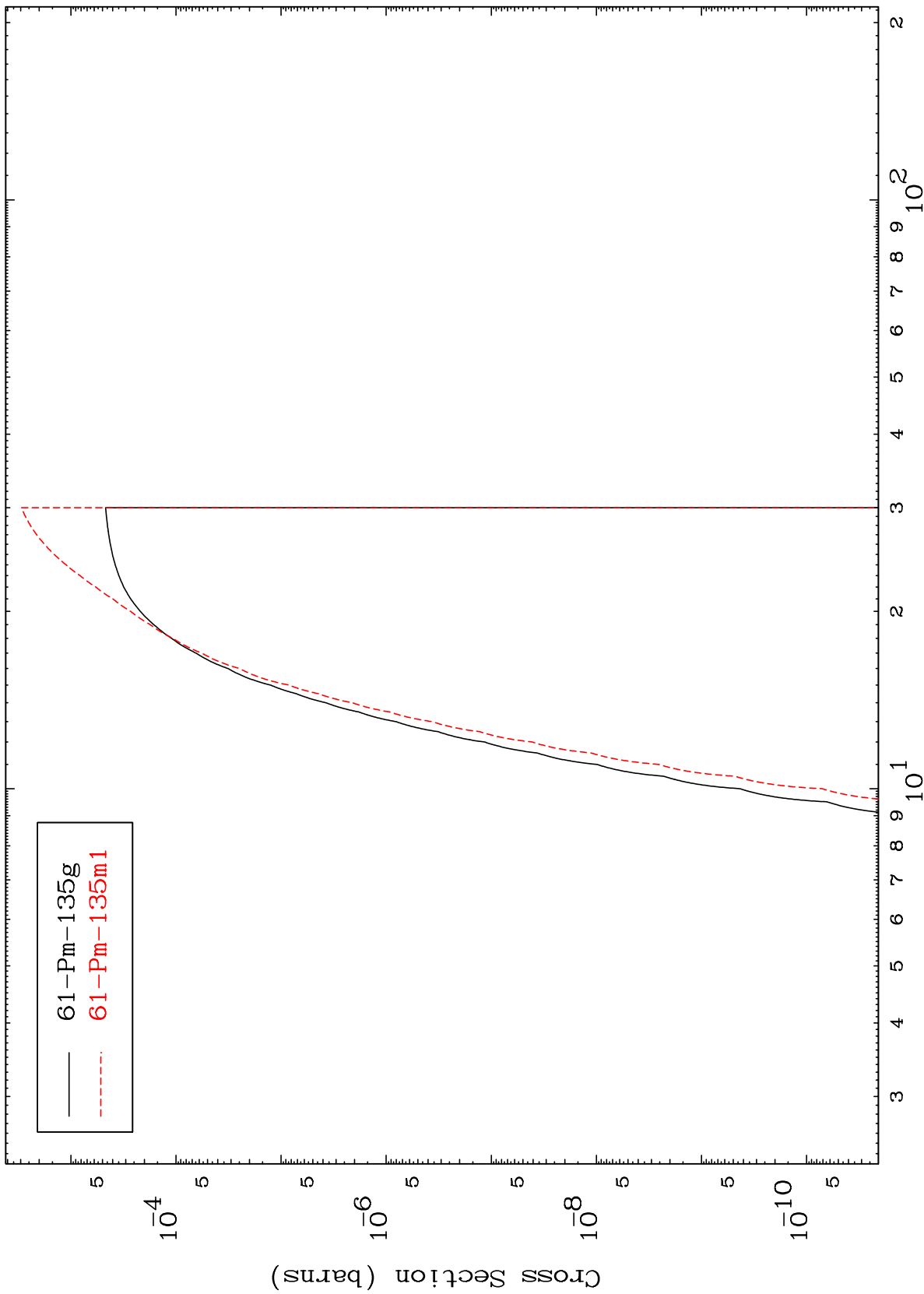
Incident Energy (MeV)

$^{63}\text{Eu}-137$

35

(n,p) d

Radionuclide Production Cross Section



MAT 6283

(n,p) t

63-Eu-137

