

Program EVALPLOT
(Version 2017-1)

by

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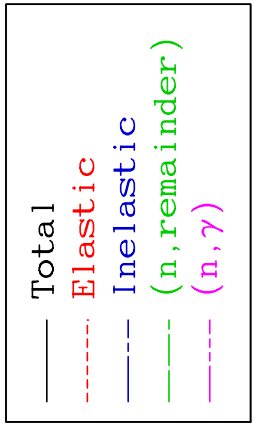
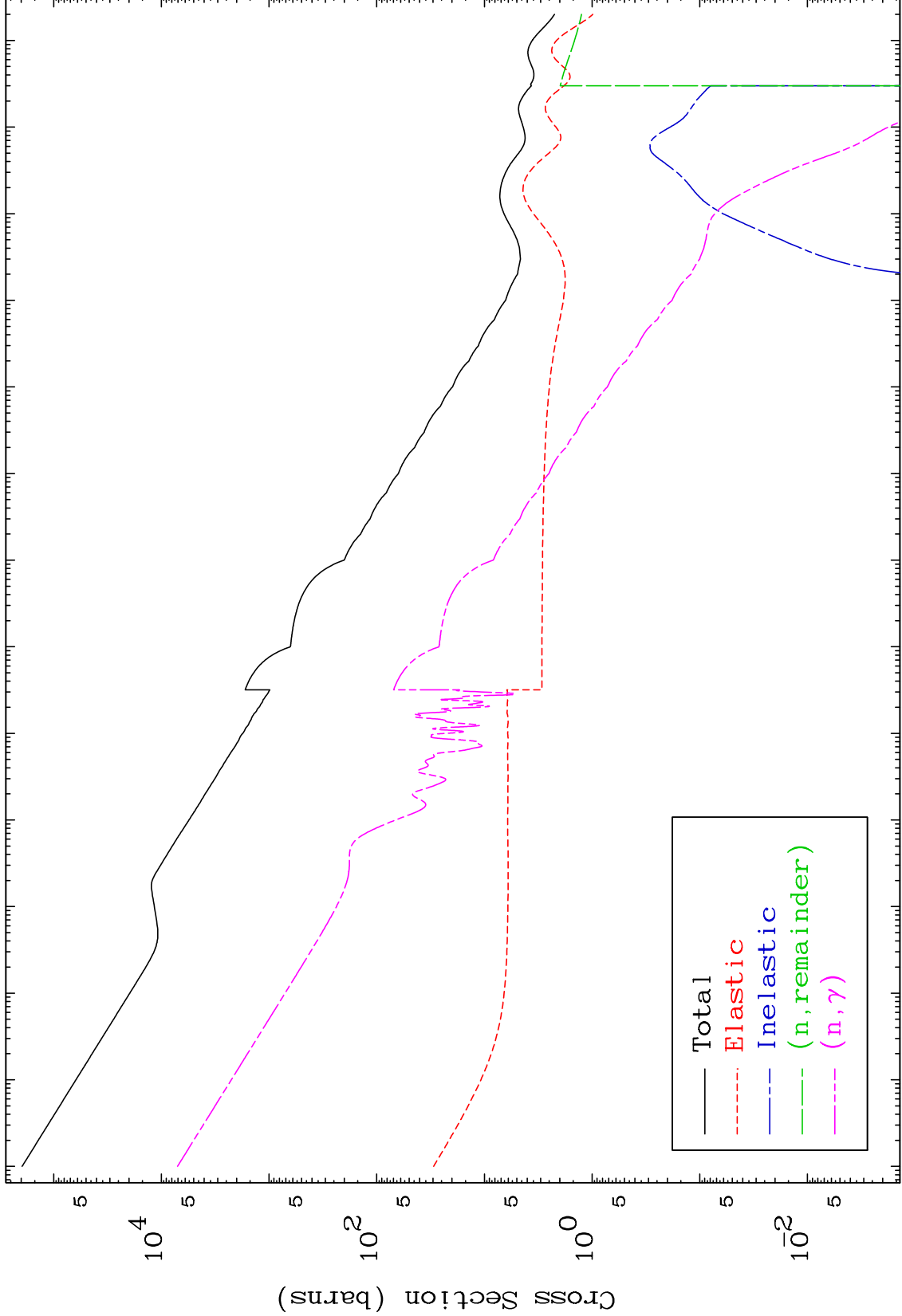
Press Mouse Button to Start

MAT 6286

Major

293 Kelvin Cross Sections

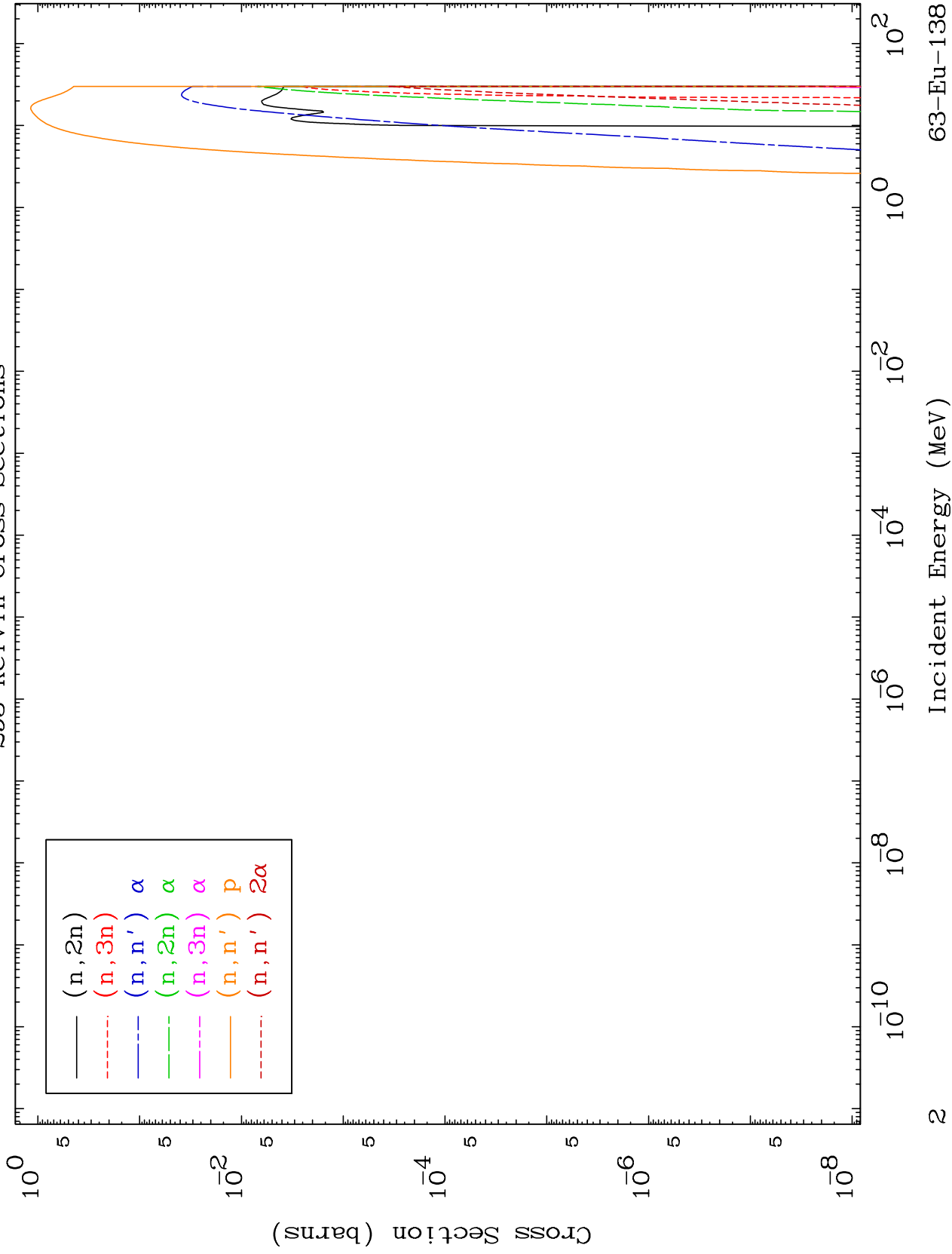
63-Eu-138

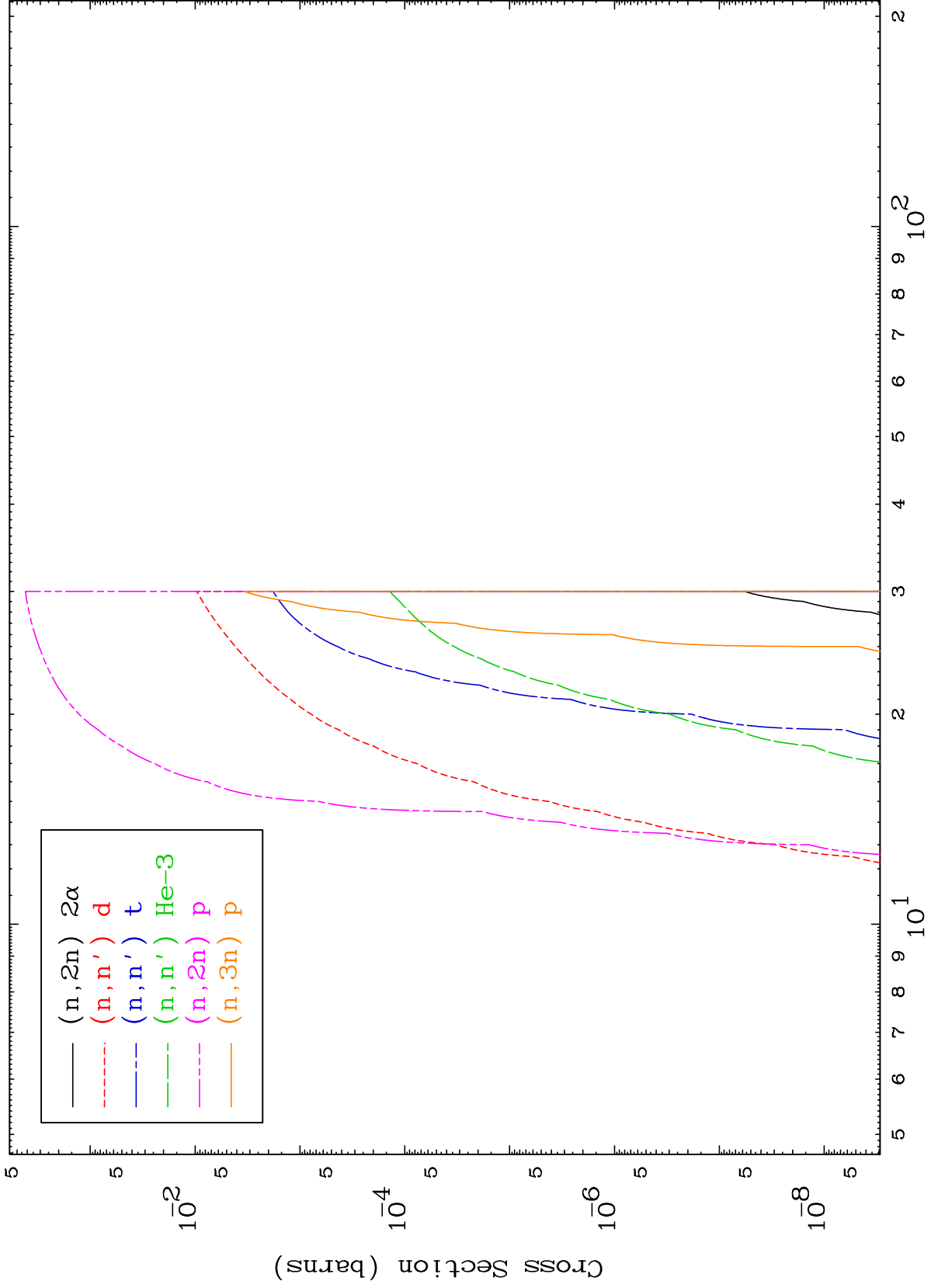


MAT 6286

Neutron Production
293 Kelvin Cross Sections

63-Eu-138

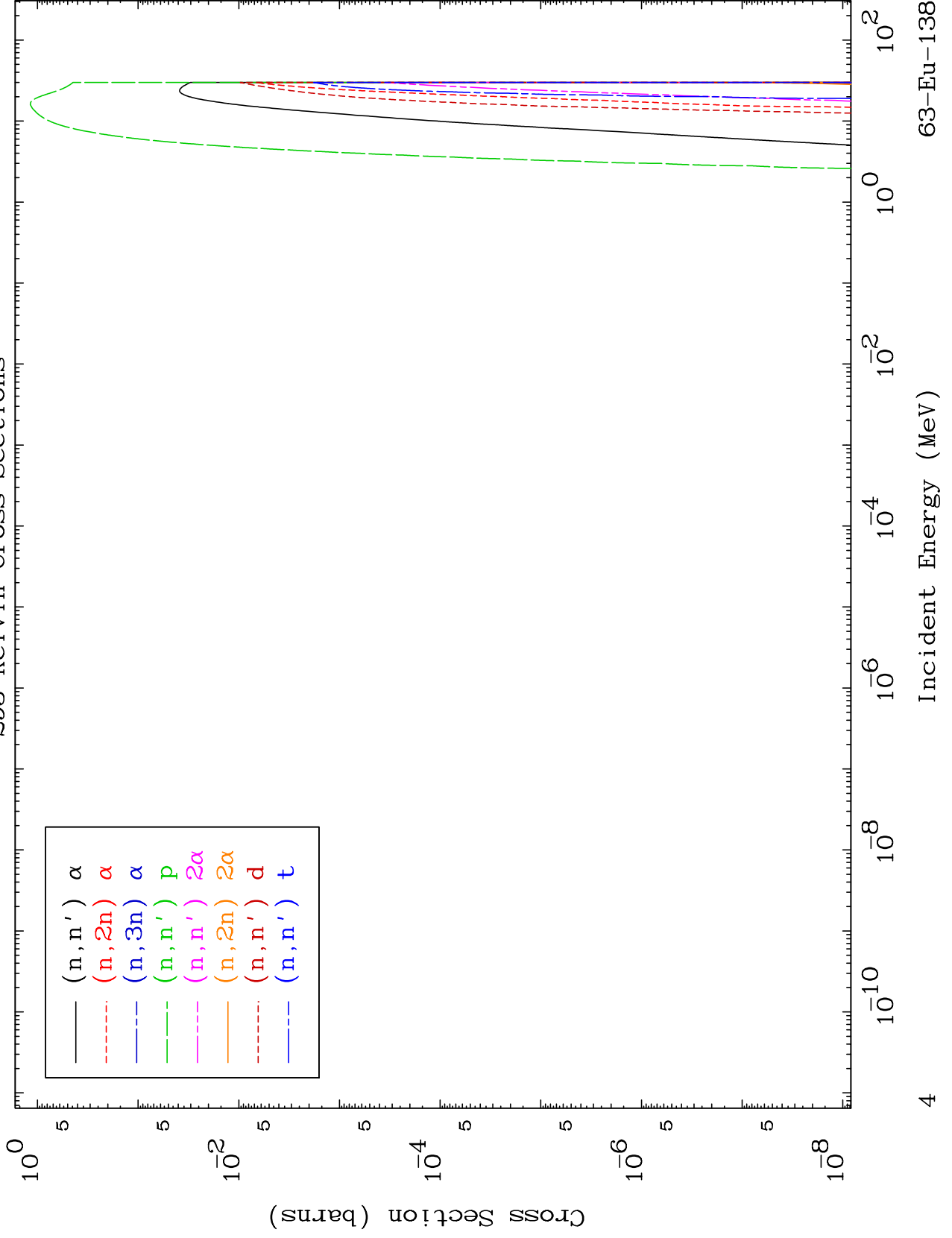




MAT 6286

Charged Particle
293 Kelvin Cross Sections

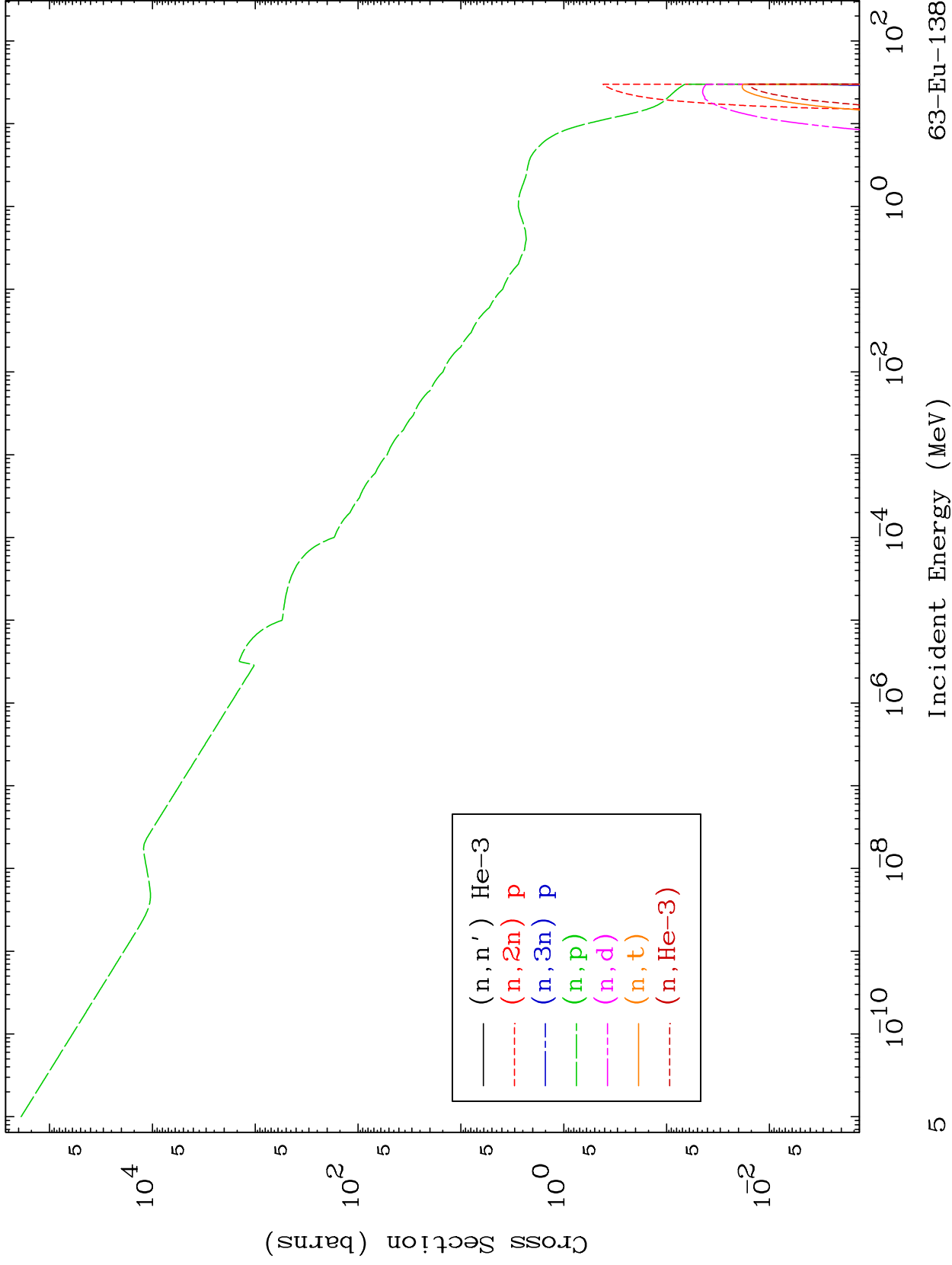
63-Eu-138



MAT 6286

Charged Particle
293 Kelvin Cross Sections

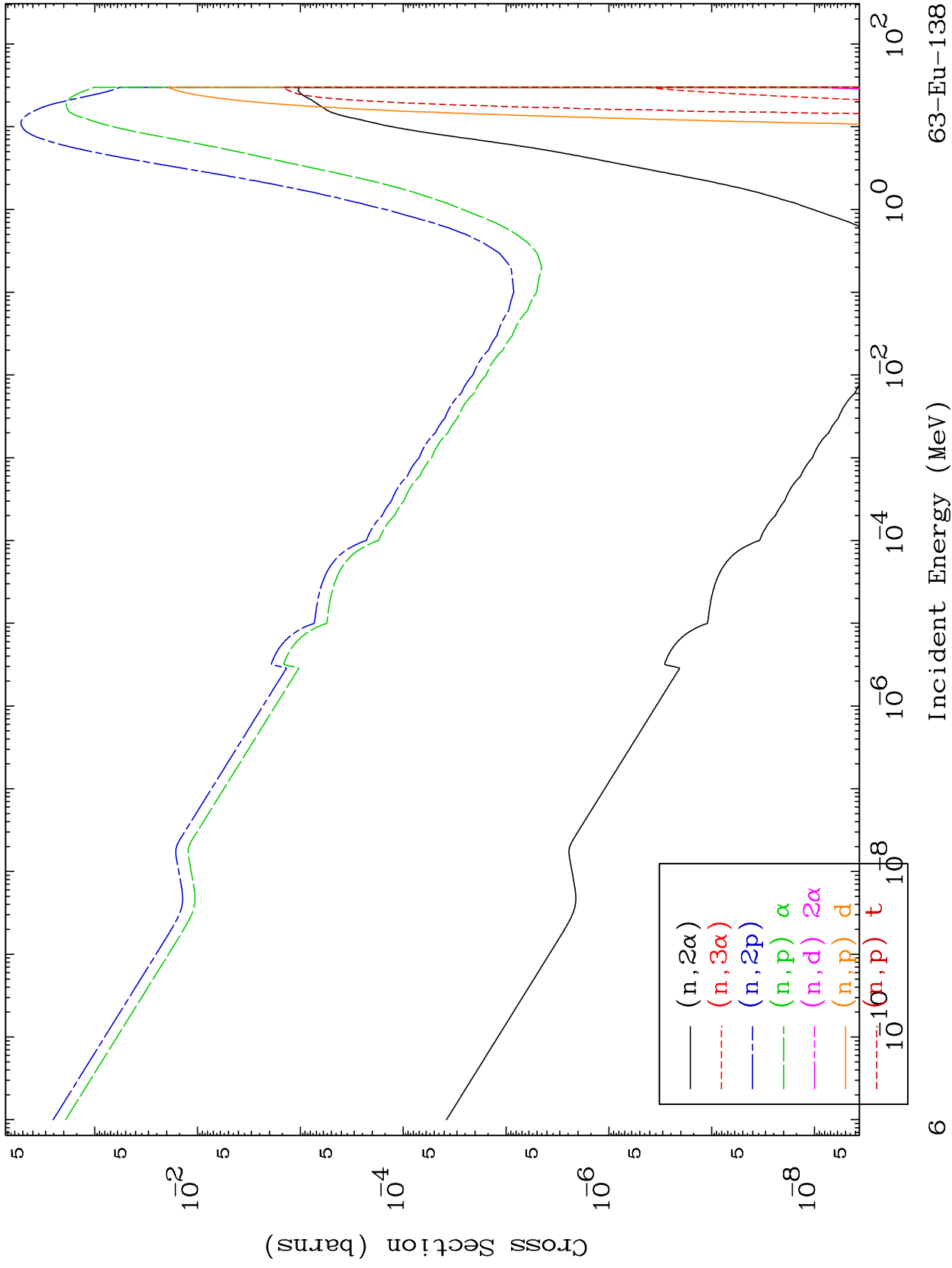
63-Eu-138



MAT 6286

Charged Particle
293 Kelvin Cross Sections

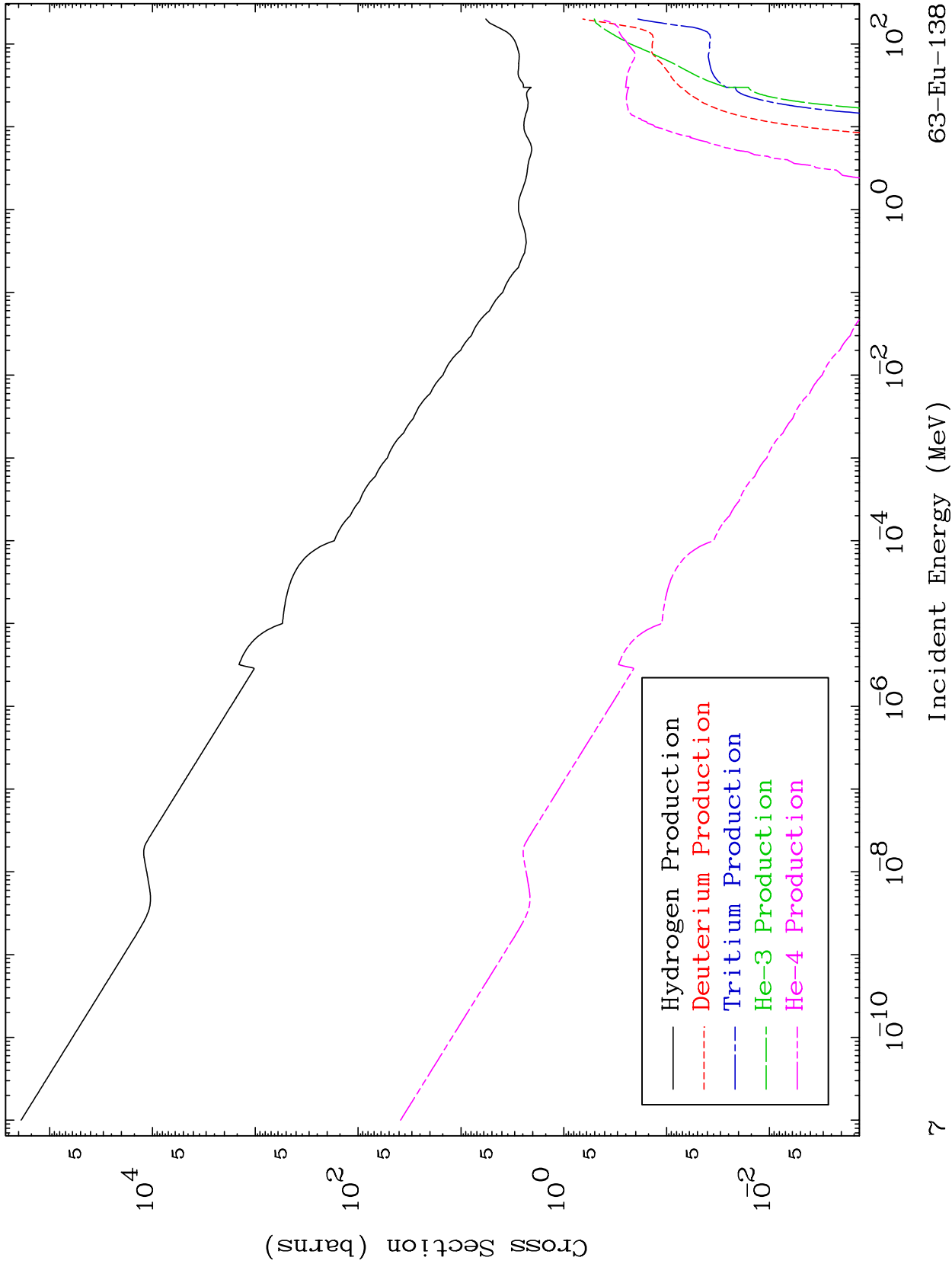
63-Eu-138



MAT 6286

Particle Production
293 Kelvin Cross Sections

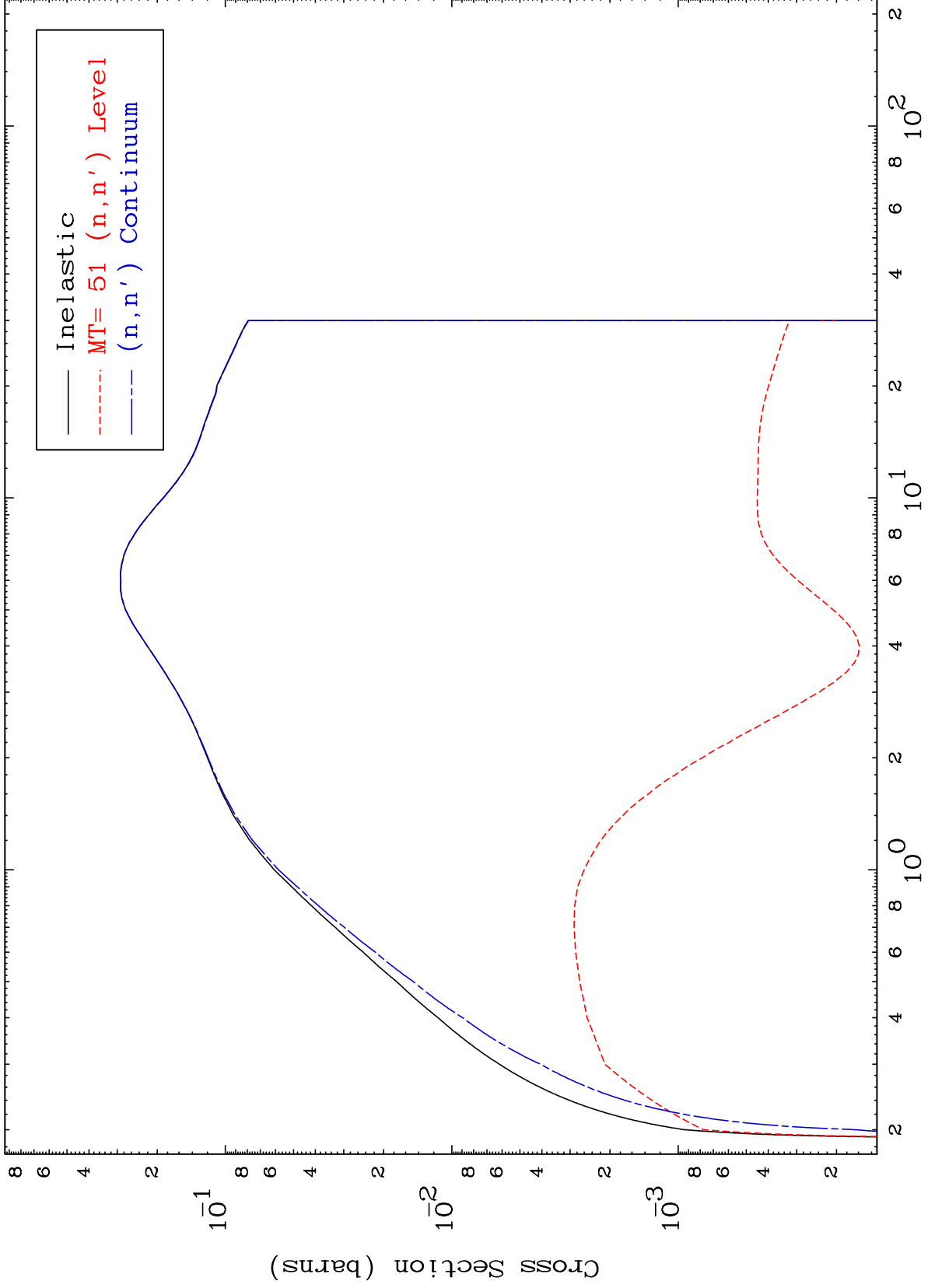
63-Eu-138



MAT 6286

(n,n') Level
293 Kelvin Cross Sections

63-Eu-138



8

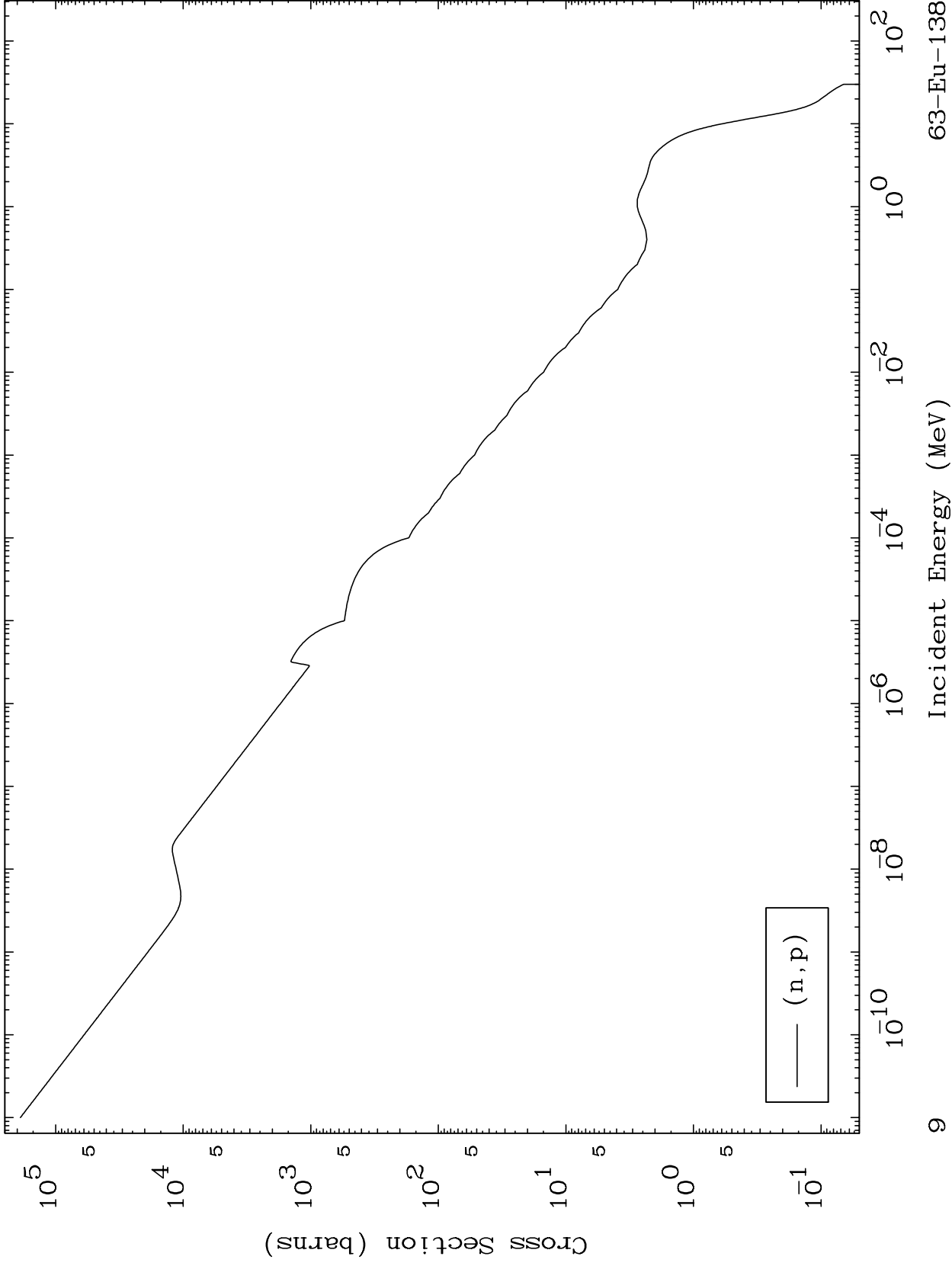
Incident Energy (MeV)

63-Eu-138

MAT 6286

(n,p) Levels
293 Kelvin Cross Sections

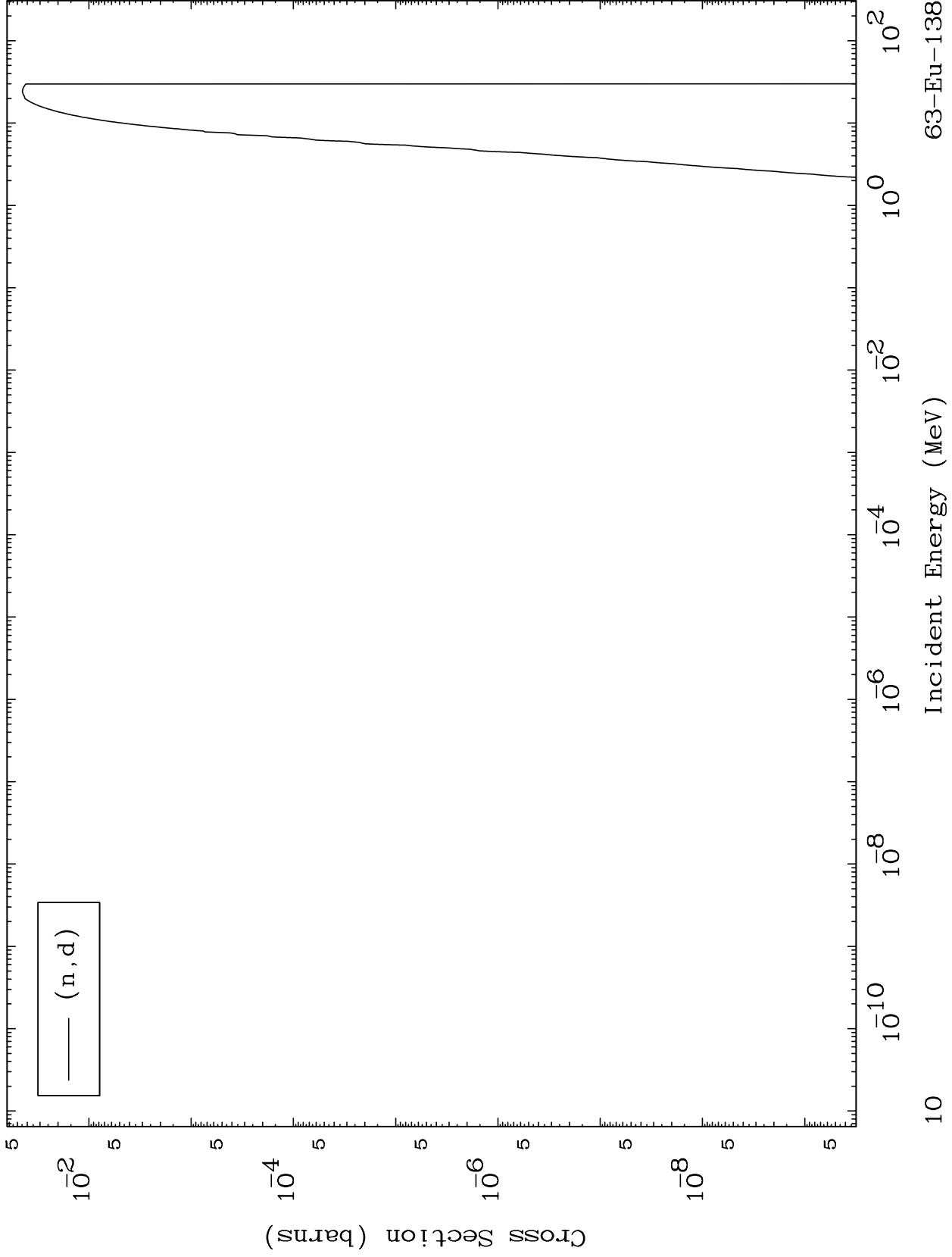
63-Eu-138



MAT 6286

(n,d) Levels
293 Kelvin Cross Sections

63-Eu-138



10

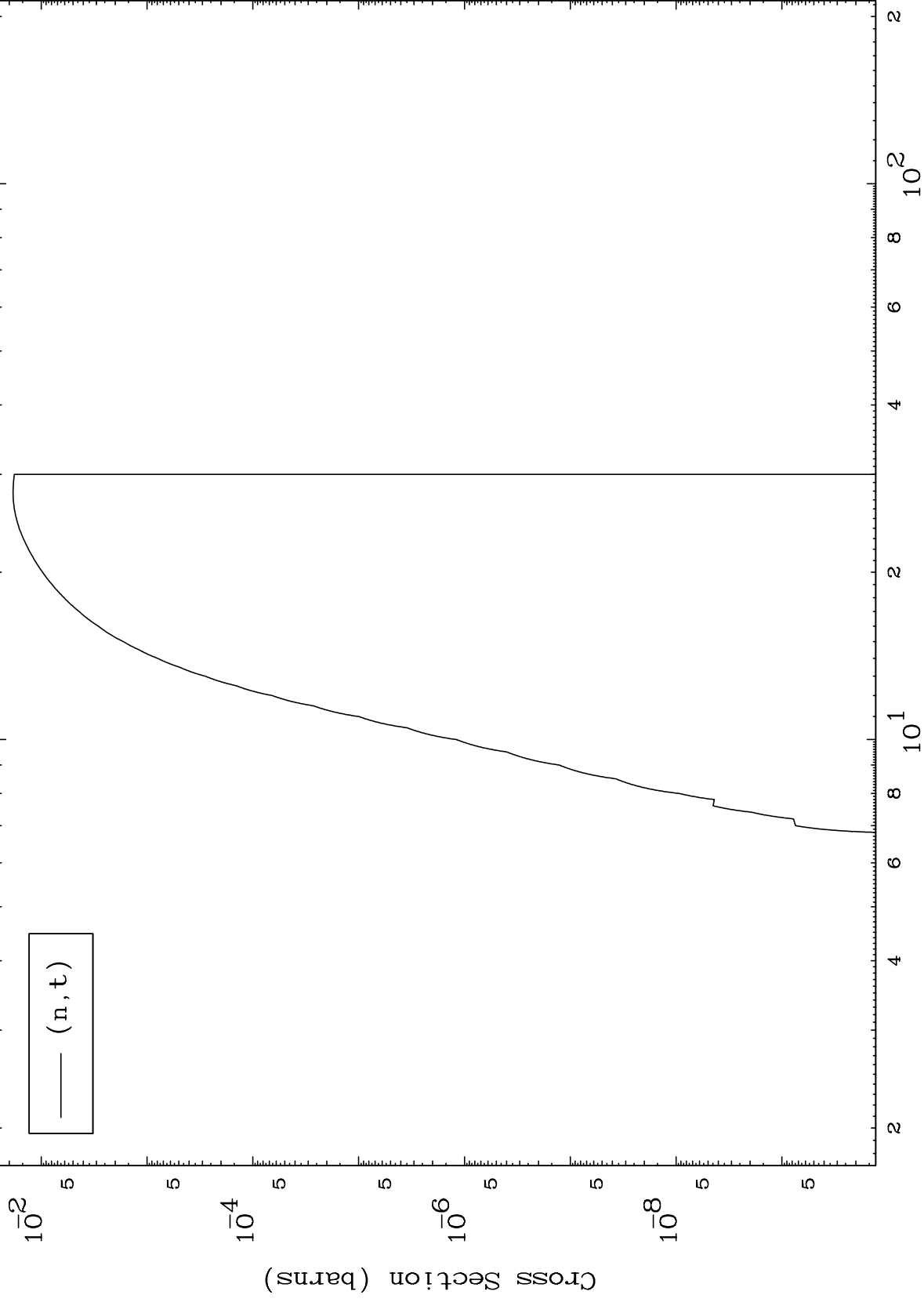
Incident Energy (MeV)

63-Eu-138

MAT 6286

(n,t) Levels
293 Kelvin Cross Sections

63-Eu-138



11

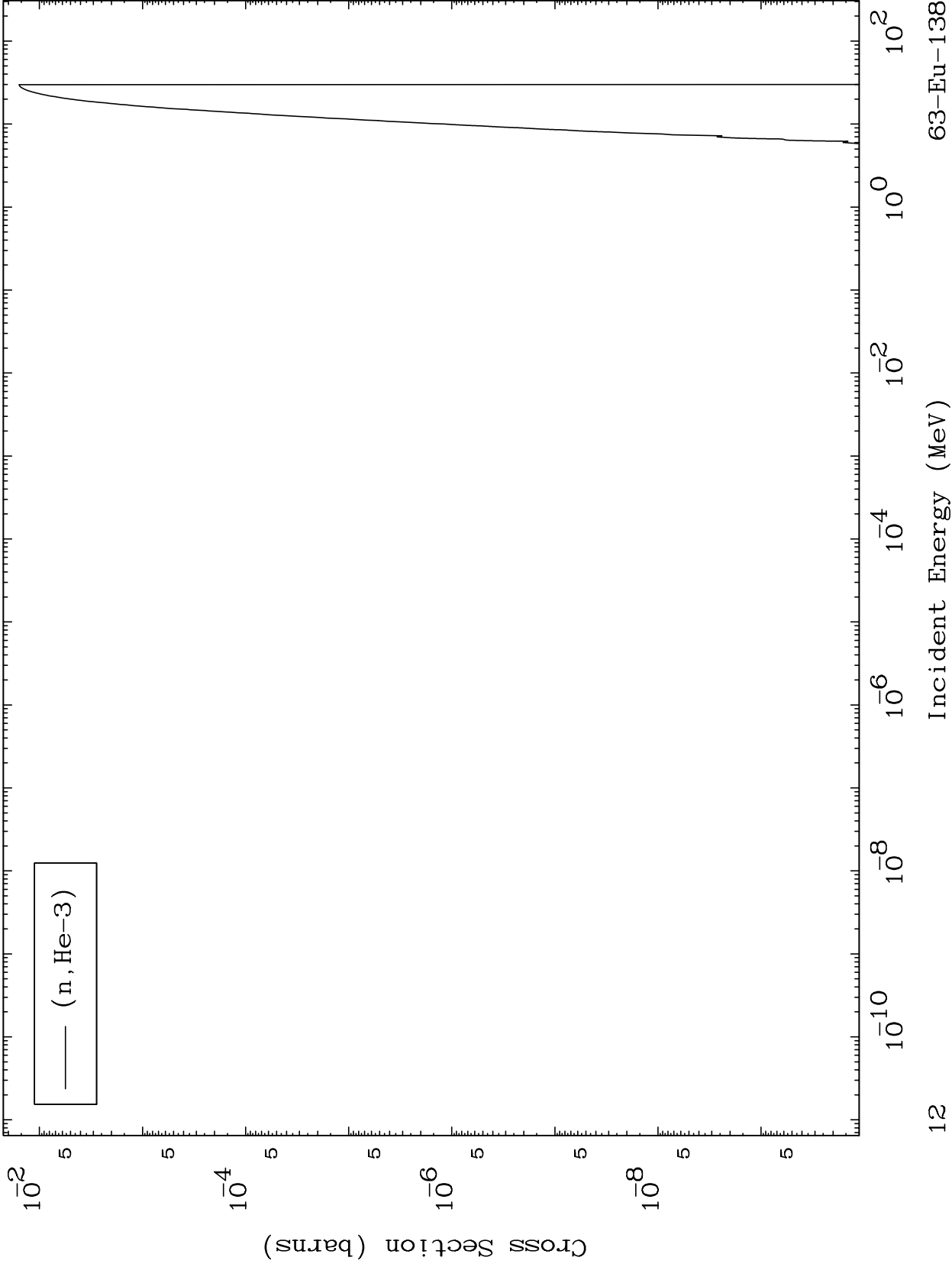
Incident Energy (MeV)

63-Eu-138

MAT 6286

(n,He3) Levels
293 Kelvin Cross Sections

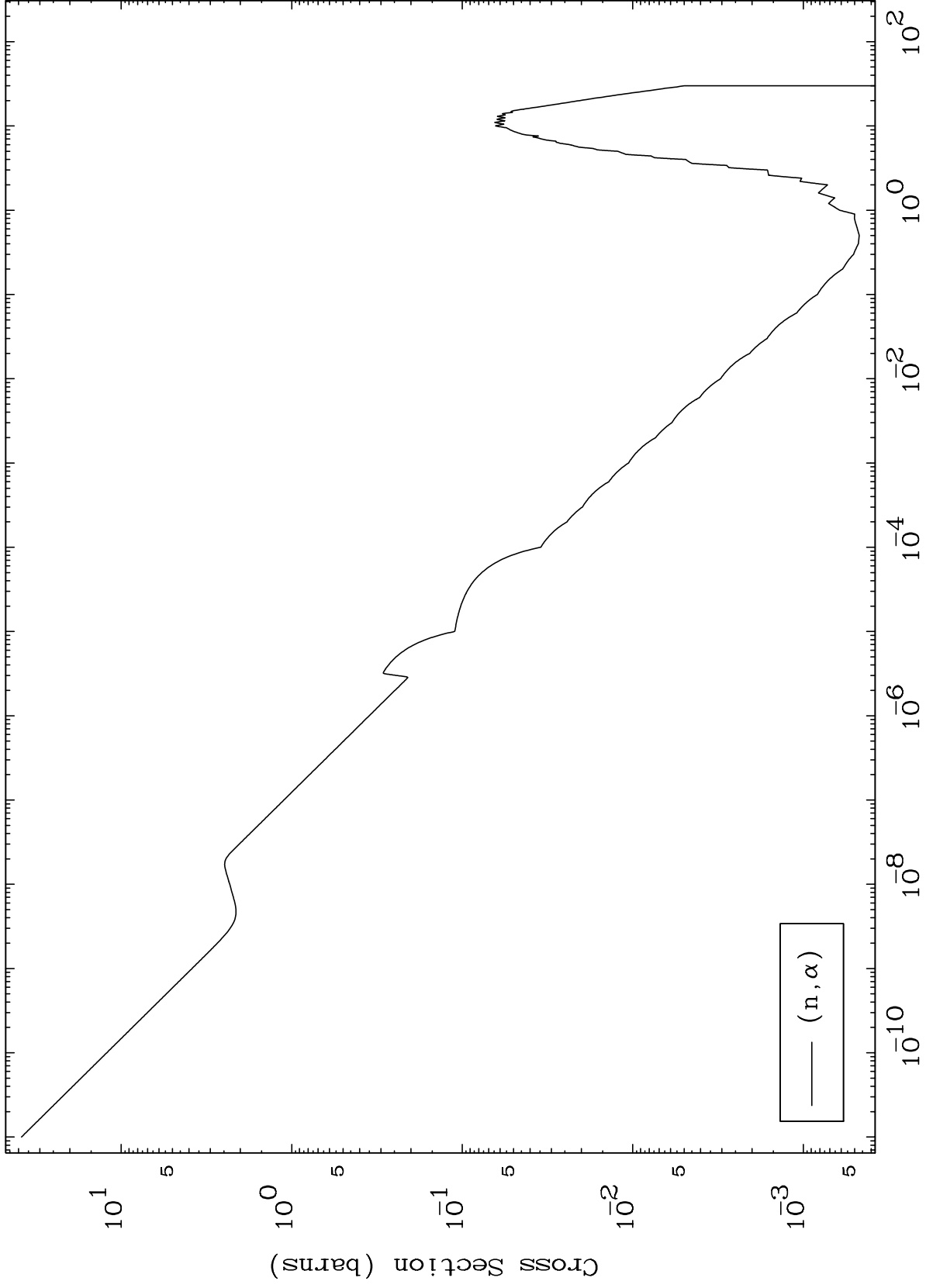
63-Eu-138

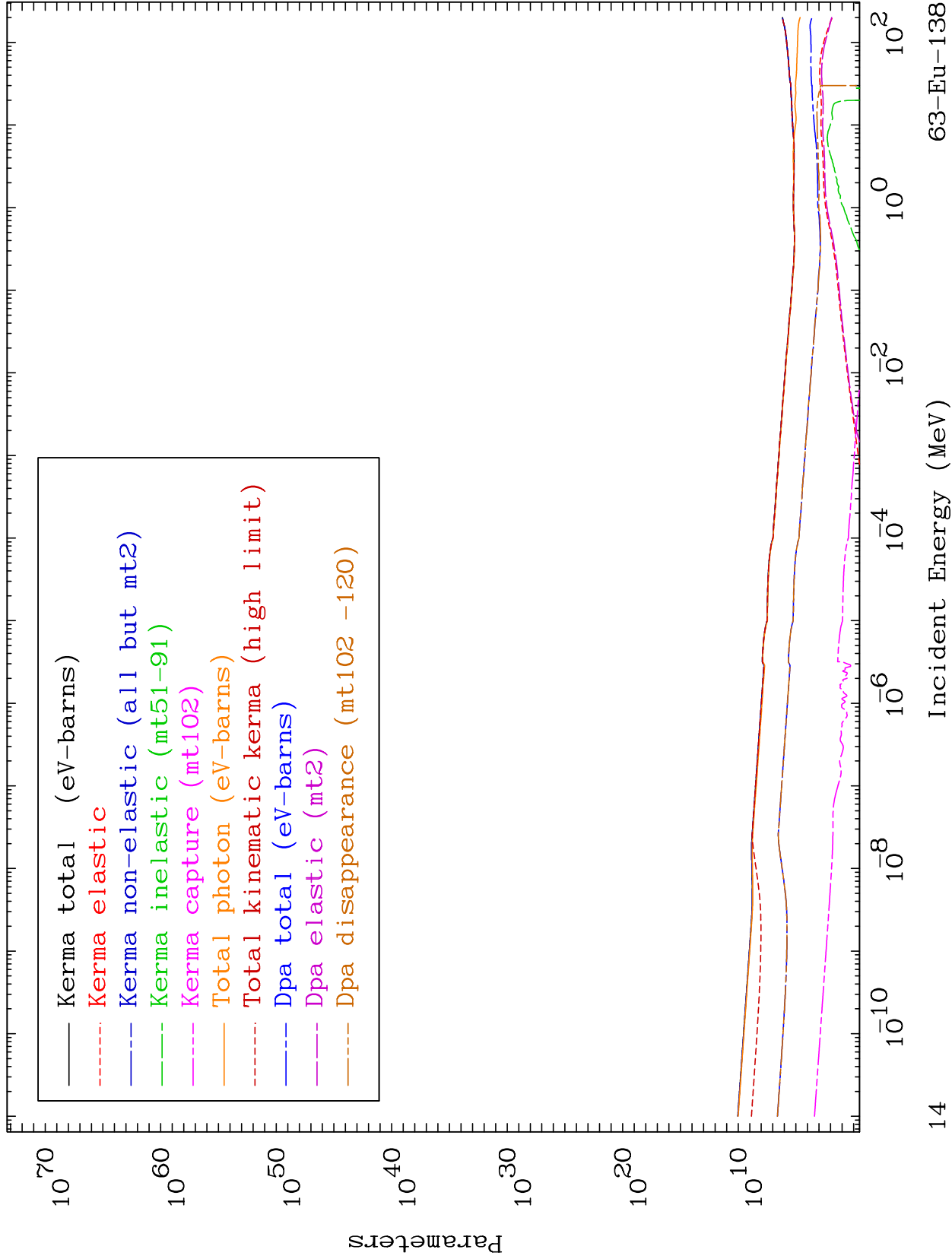


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(n,α) Levels
293 Kelvin Cross Sections

63-Eu-138

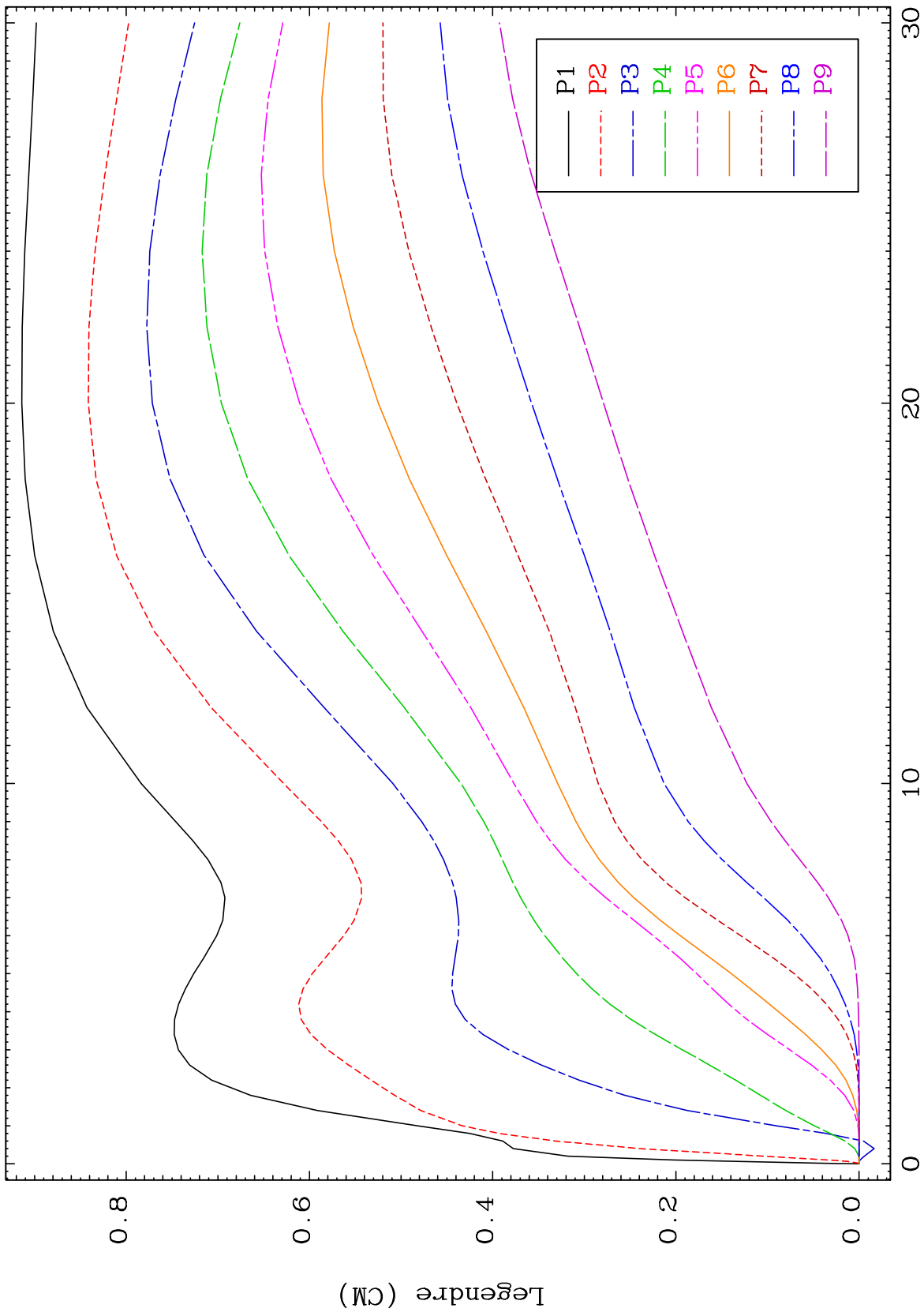




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Elastic Legendre Coefficients

63-Eu-138



15

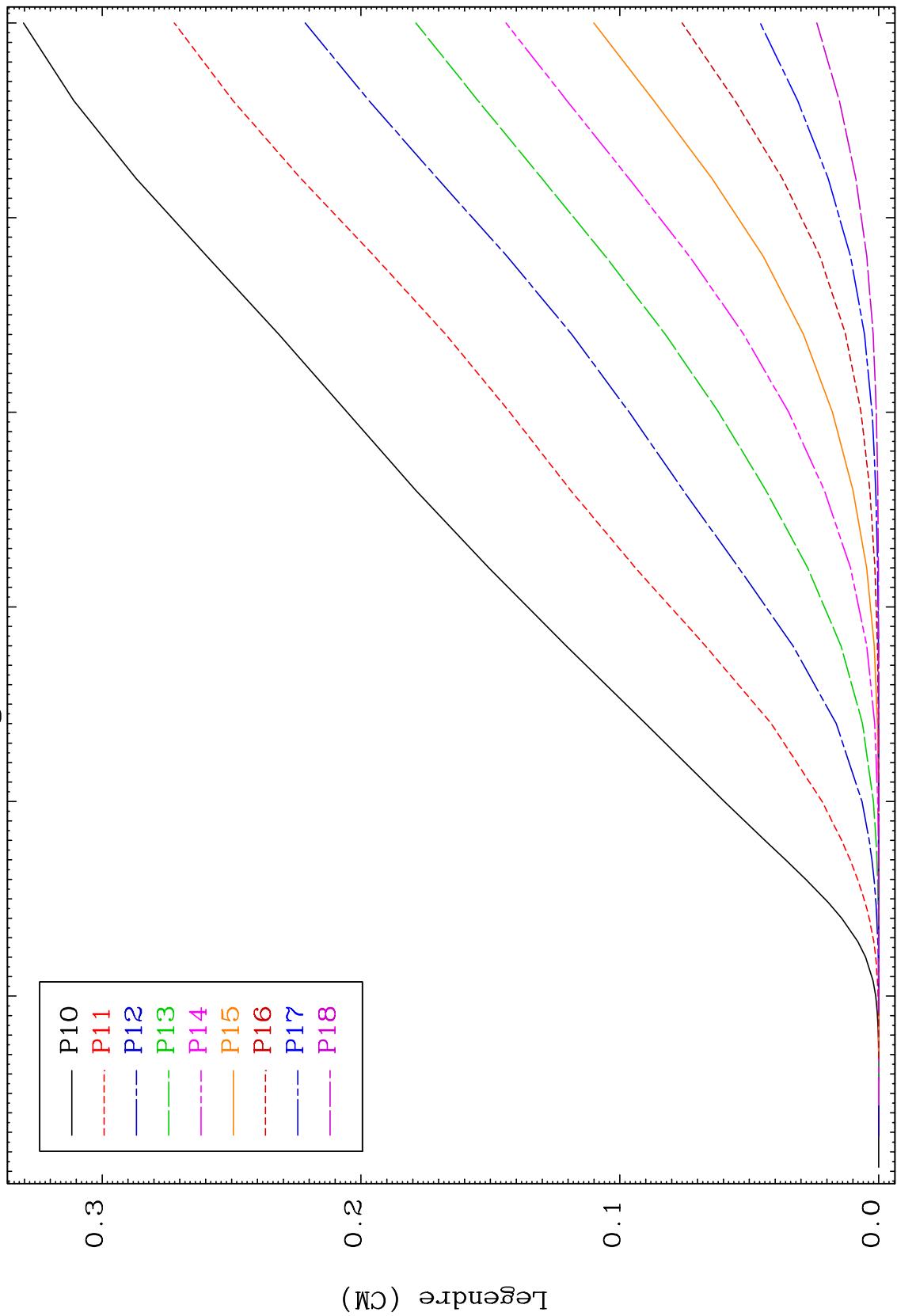
Incident Energy (MeV)

63-Eu-138

MAT 6286

Elastic Legendre Coefficients

63-Eu-138



16

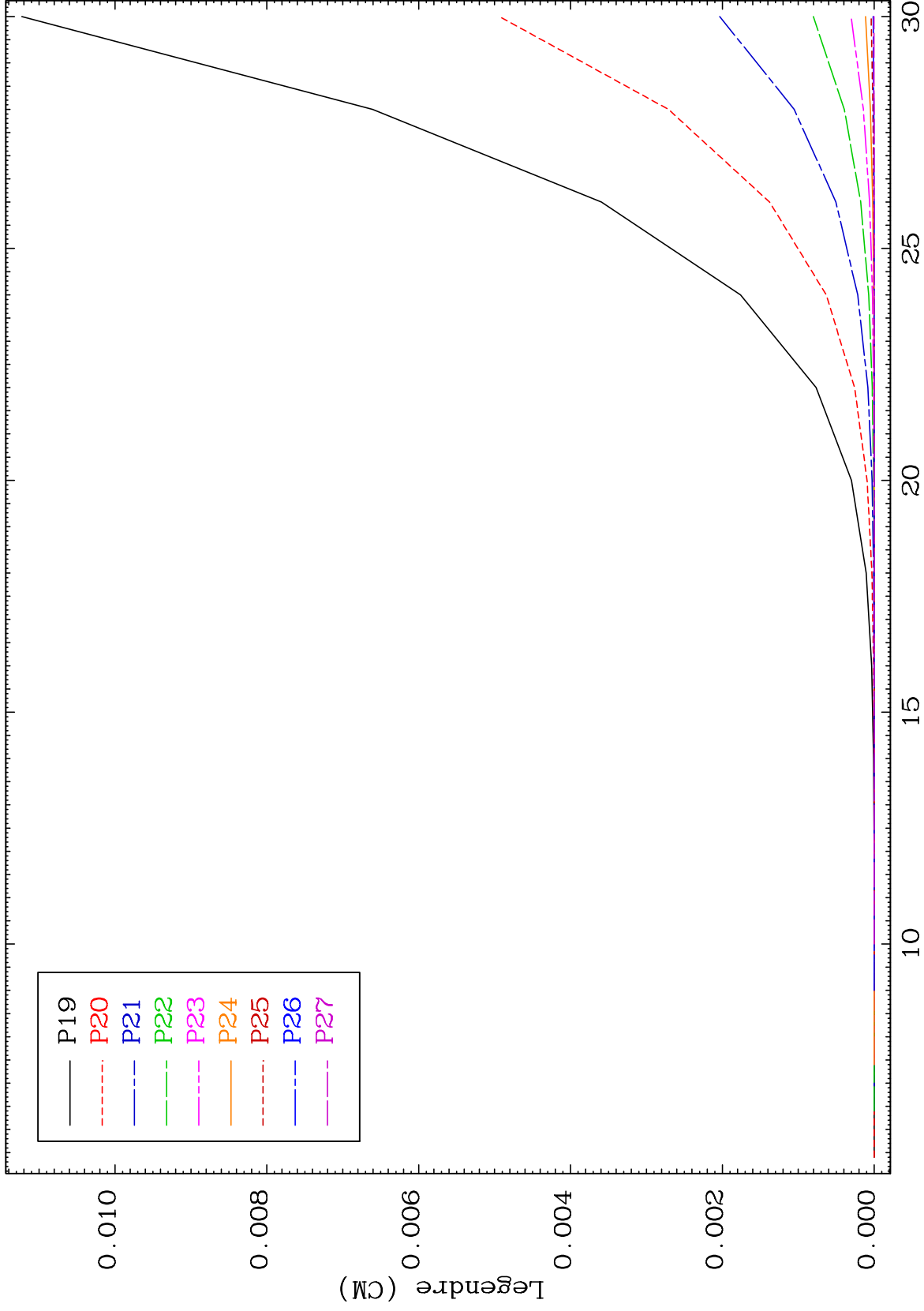
Incident Energy (MeV)

63-Eu-138

MAT 6286

Elastic Legendre Coefficients

63-Eu-138



17

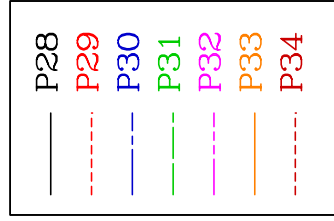
Incident Energy (MeV)

63-Eu-138

MAT 6286

Elastic Legendre Coefficients

⁶³-Eu-138



$\times 10^{-6}$

Legendre (CM)

1.0

0.8

0.6

0.4

0.2

0.0

15

20

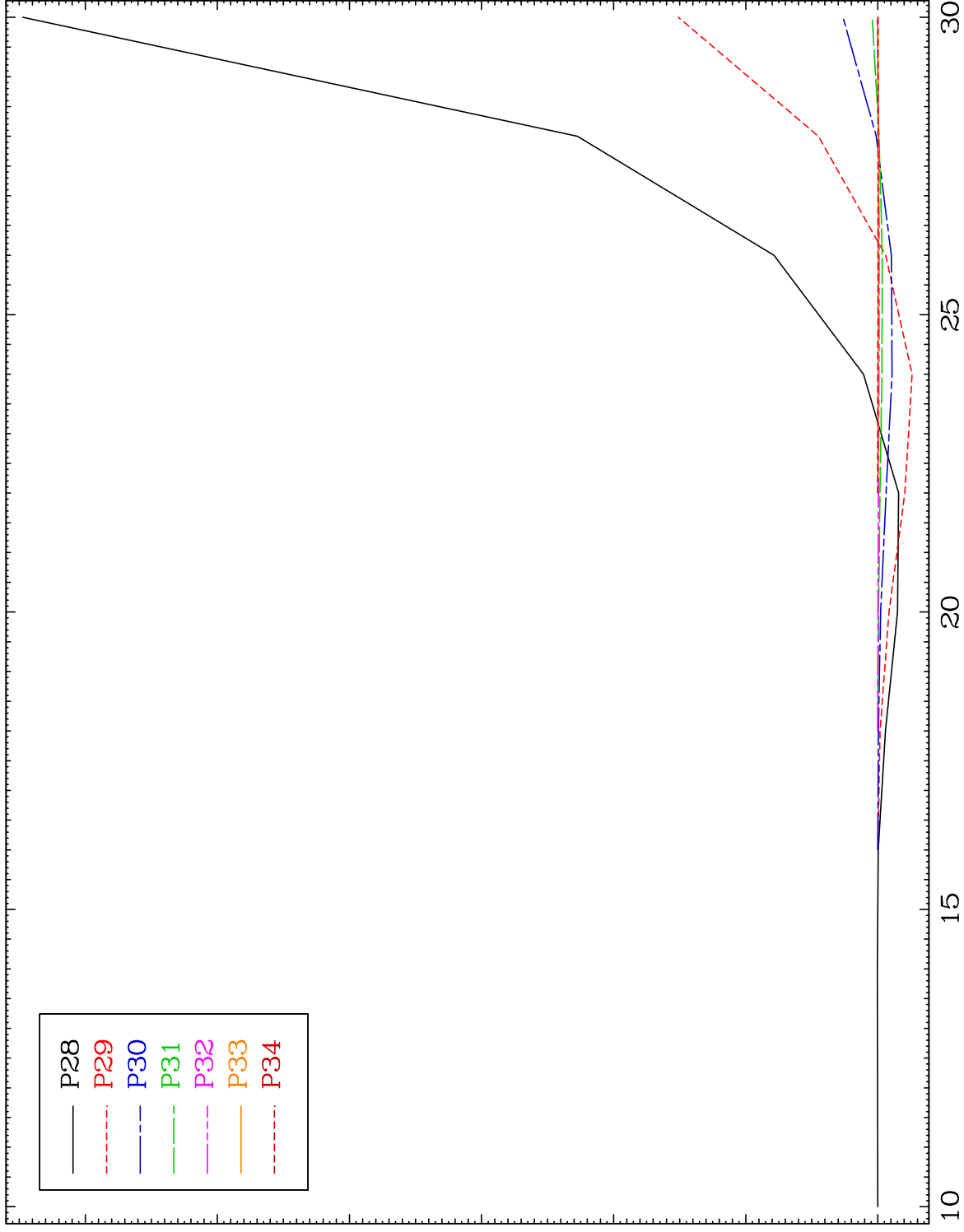
25

30

18

Incident Energy (MeV)

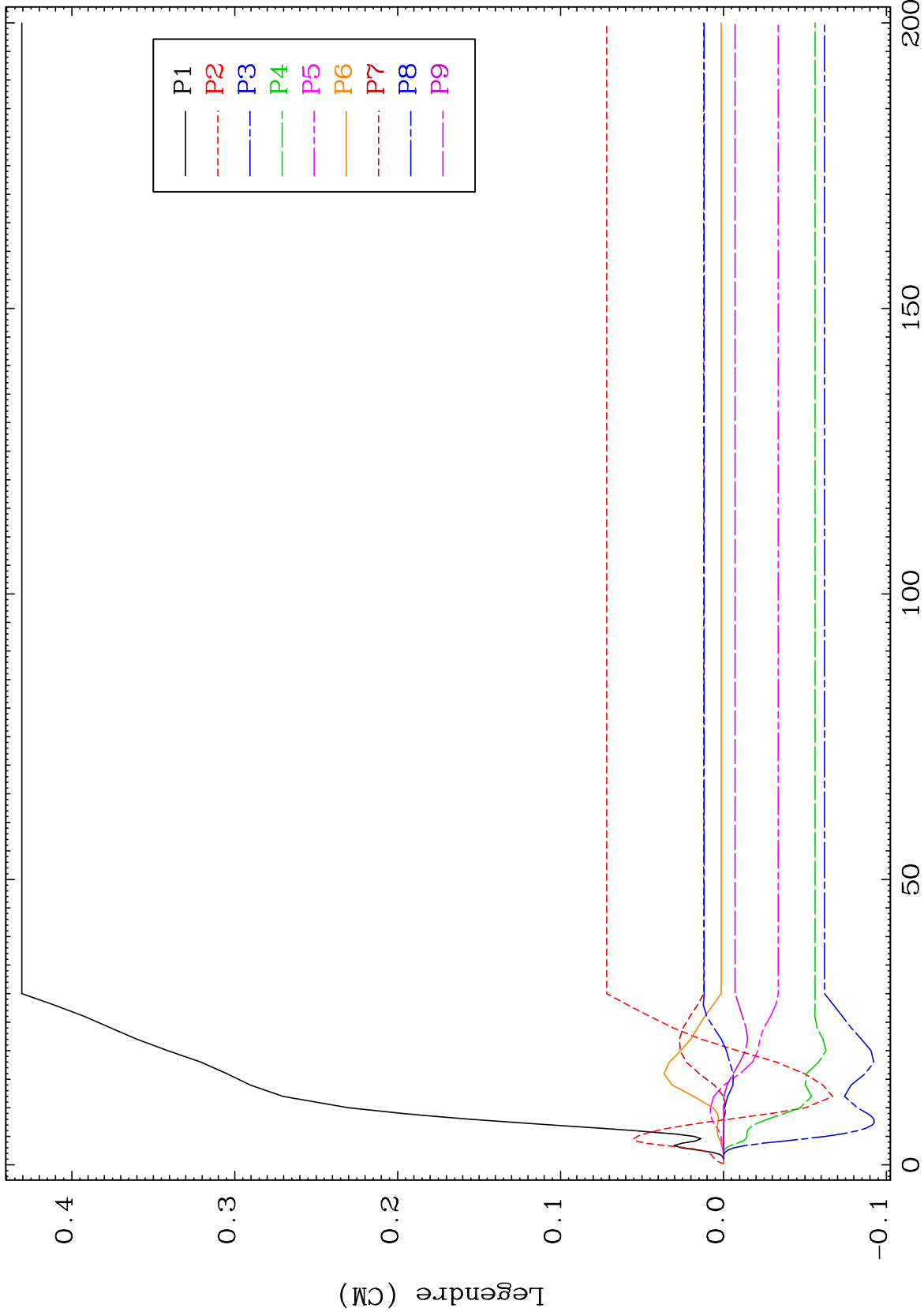
⁶³-Eu-138



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

63-Eu-138



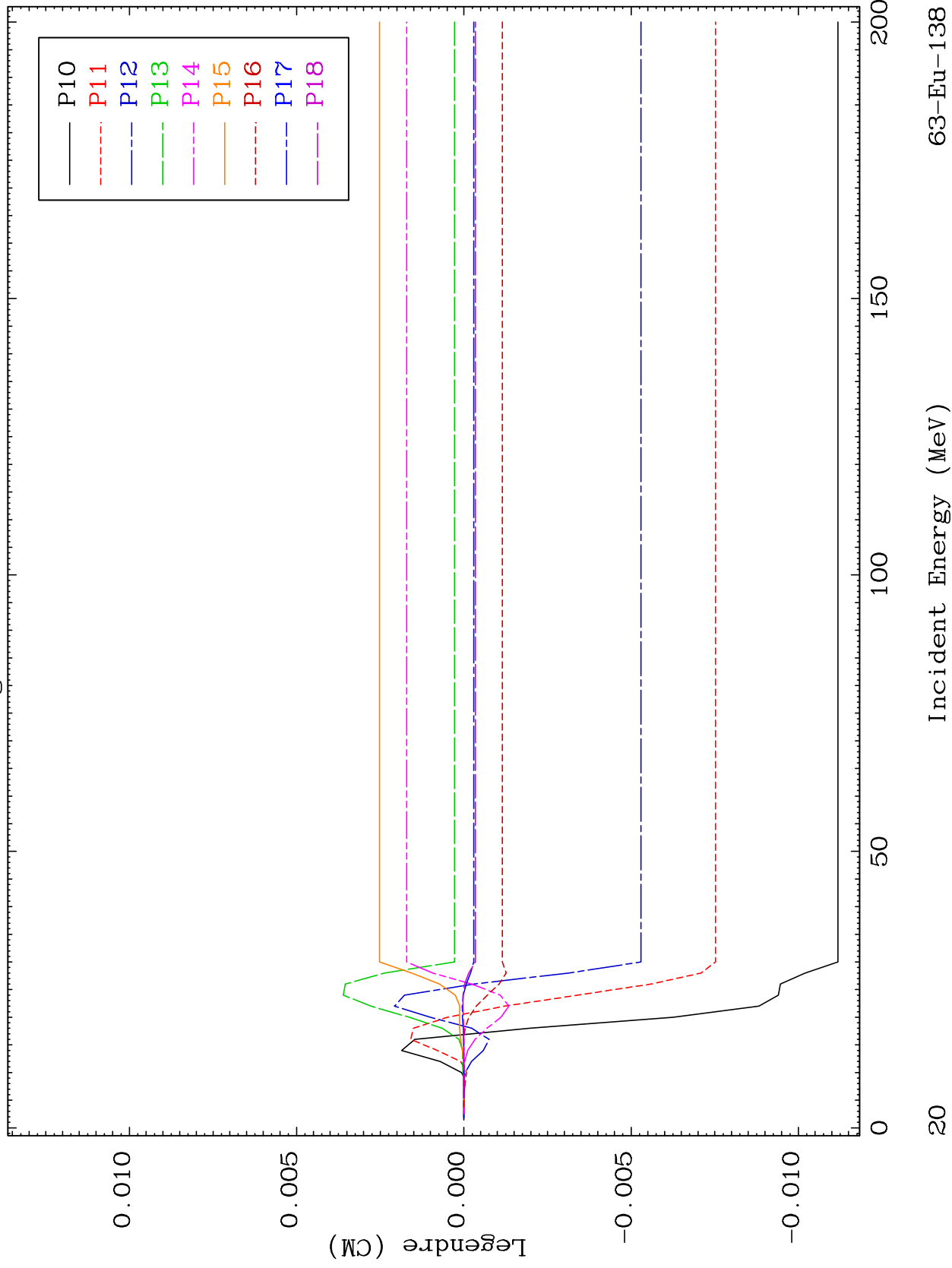
19

63-Eu-138

MAT 6286

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

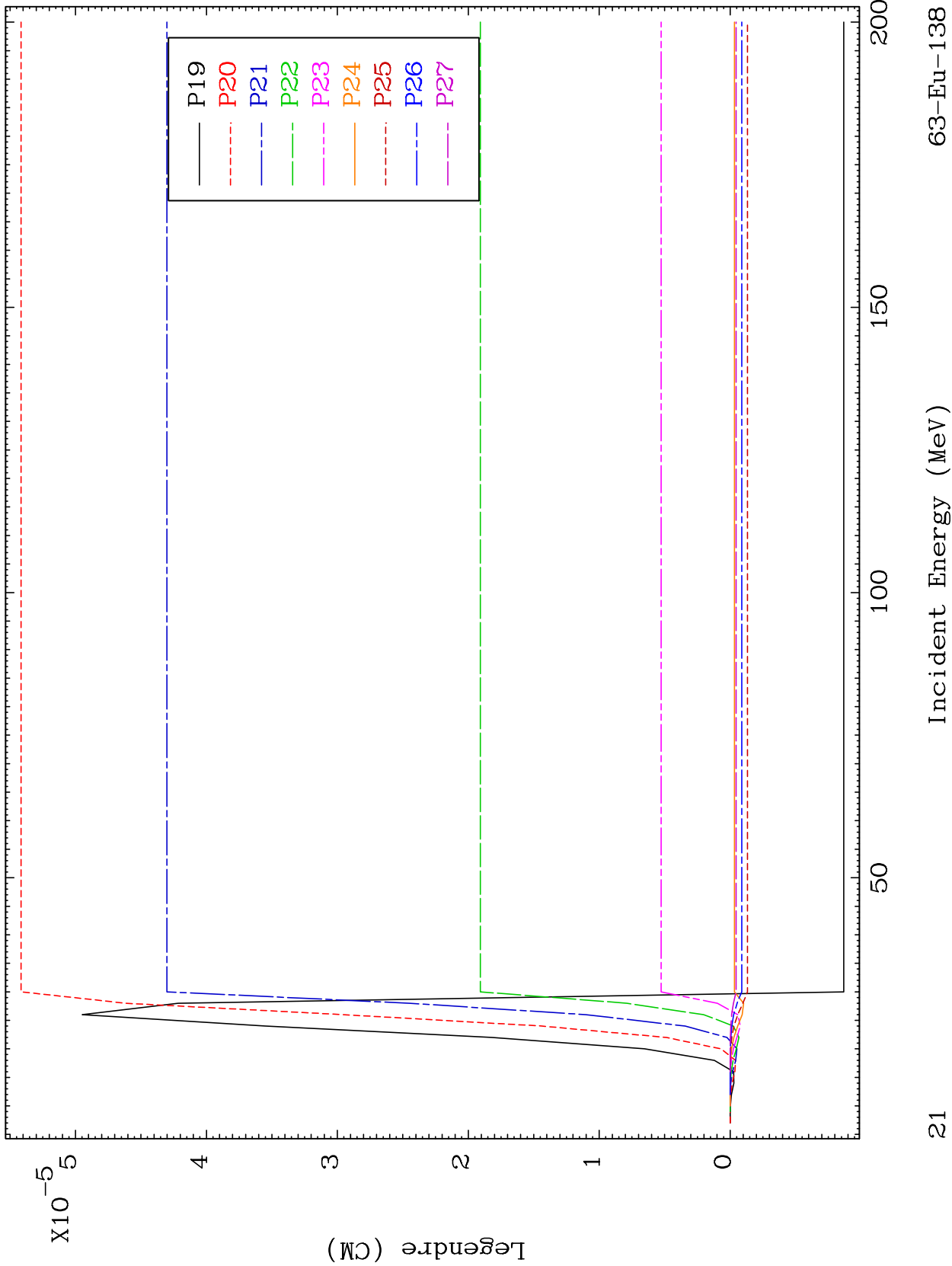
63-Eu-138



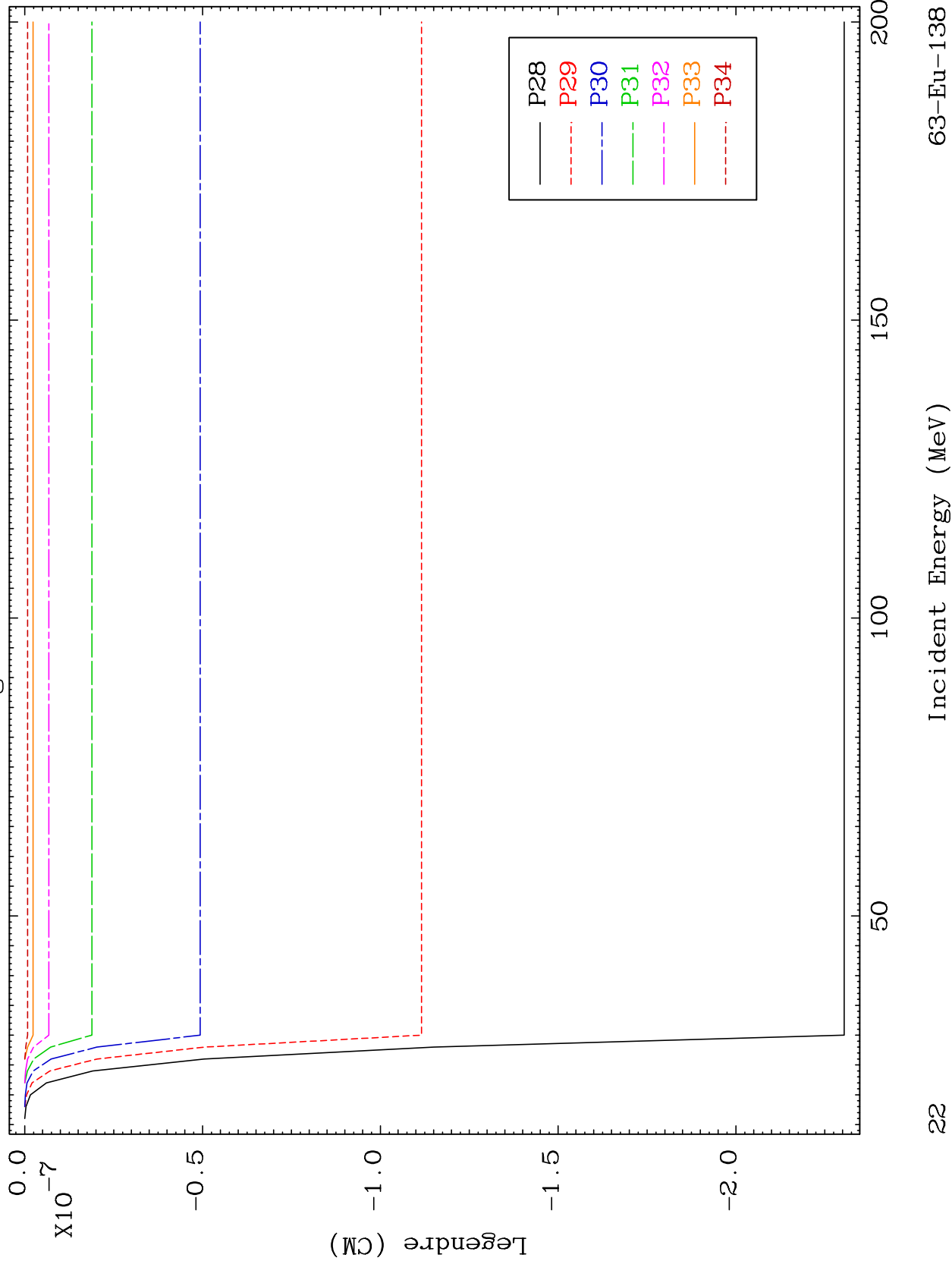
63-Eu-138

Incident Energy (MeV)

20



Legendre Coefficients

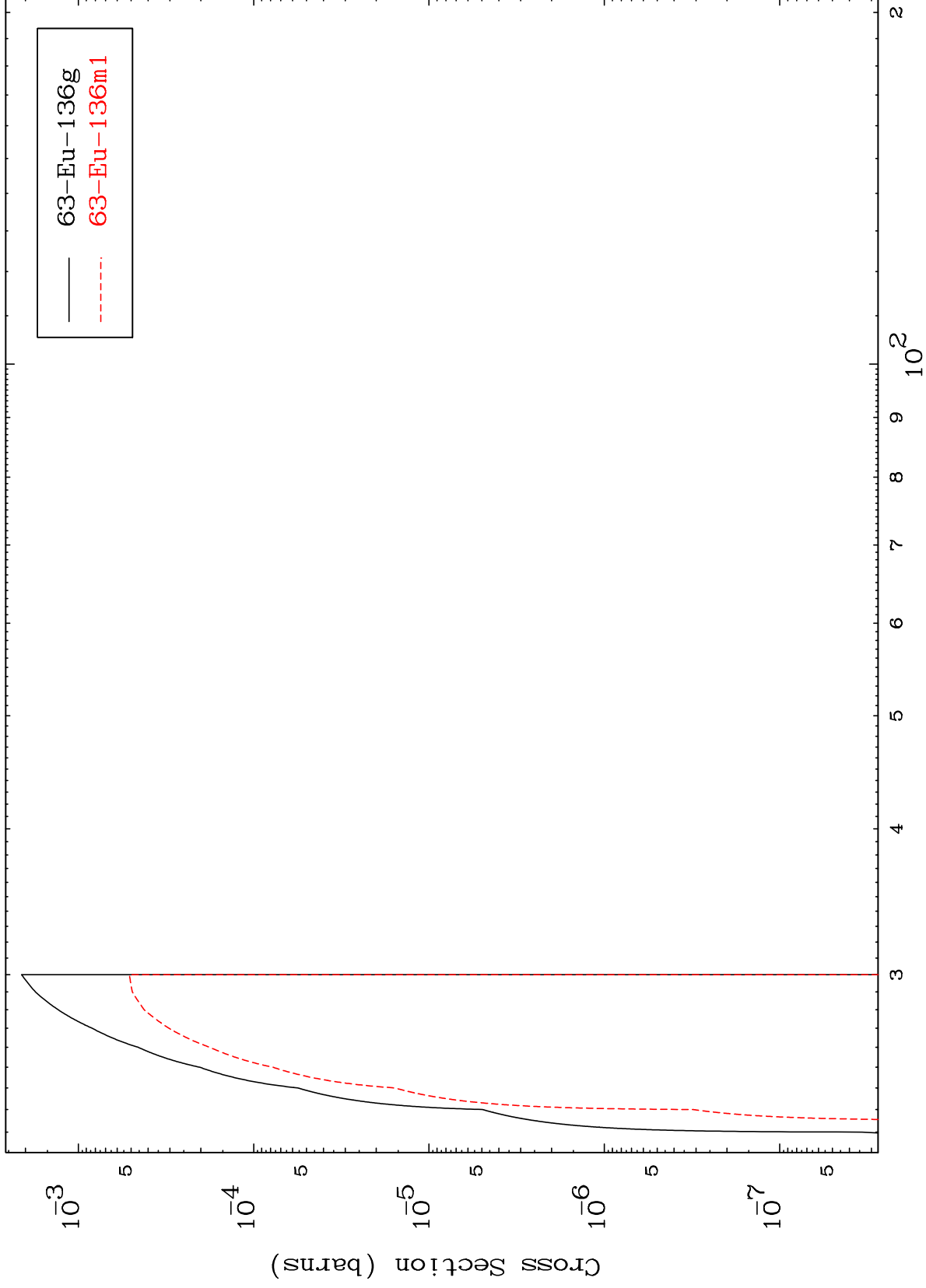


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(n,3n)

63-Eu-138

Radionuclide Production Cross Section



23

Incident Energy (MeV)

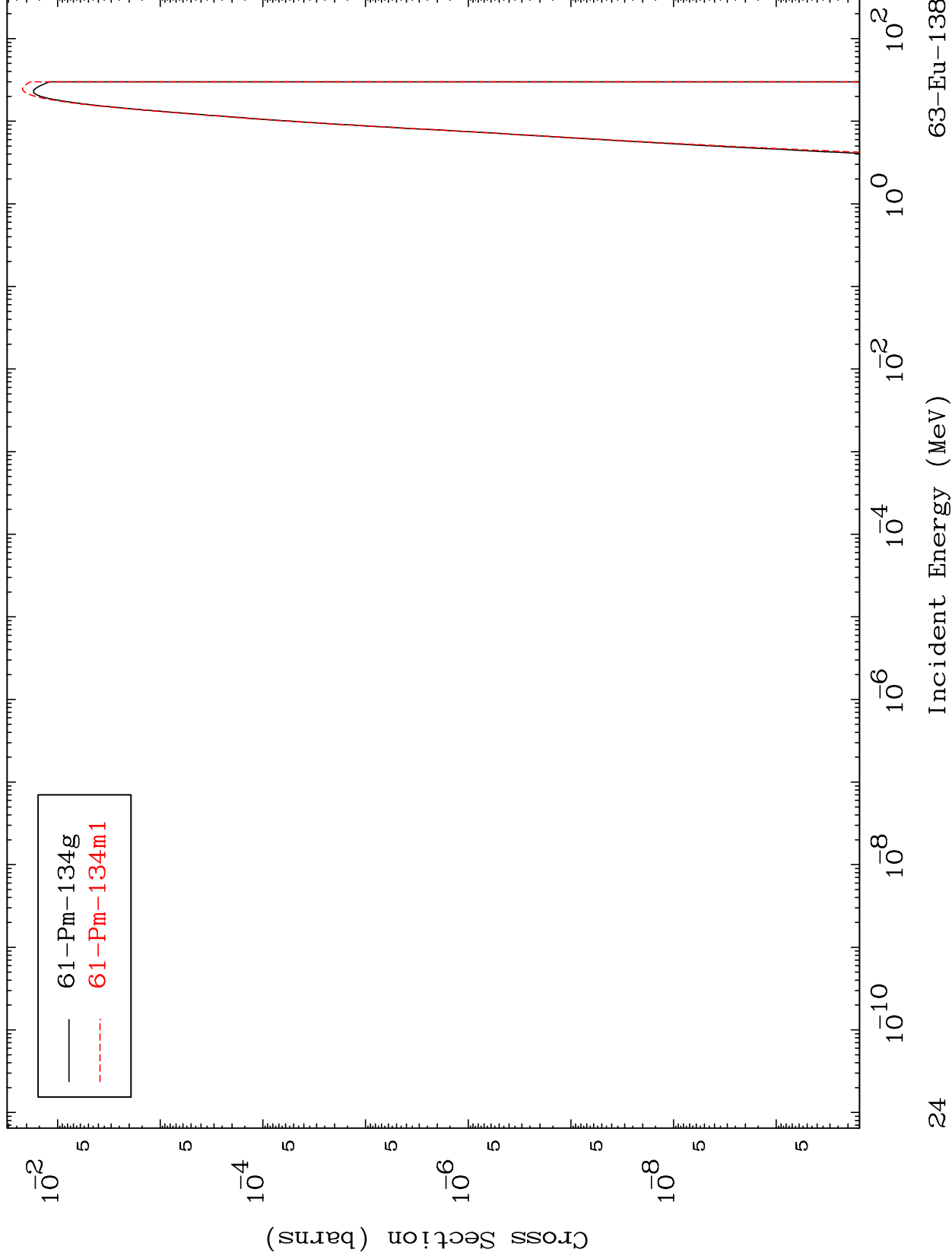
63-Eu-138

MAT 6286

$(n, n') \alpha$

63-Eu-138

Radionuclide Production Cross Section



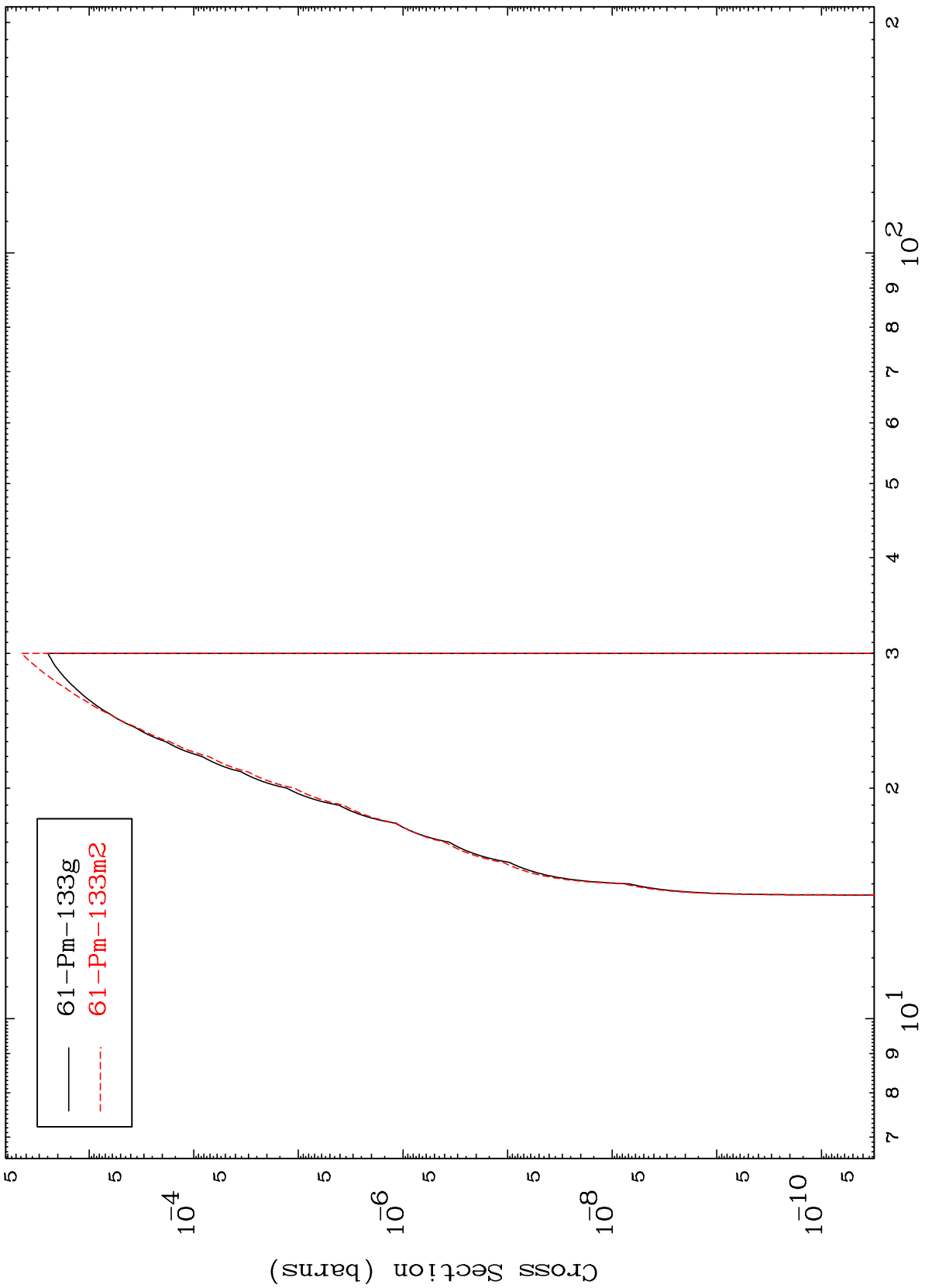
61-Pm-134g
61-Pm-134m1

MAT 6286

(n,2n) α

63-Eu-138

Radionuclide Production Cross Section



25

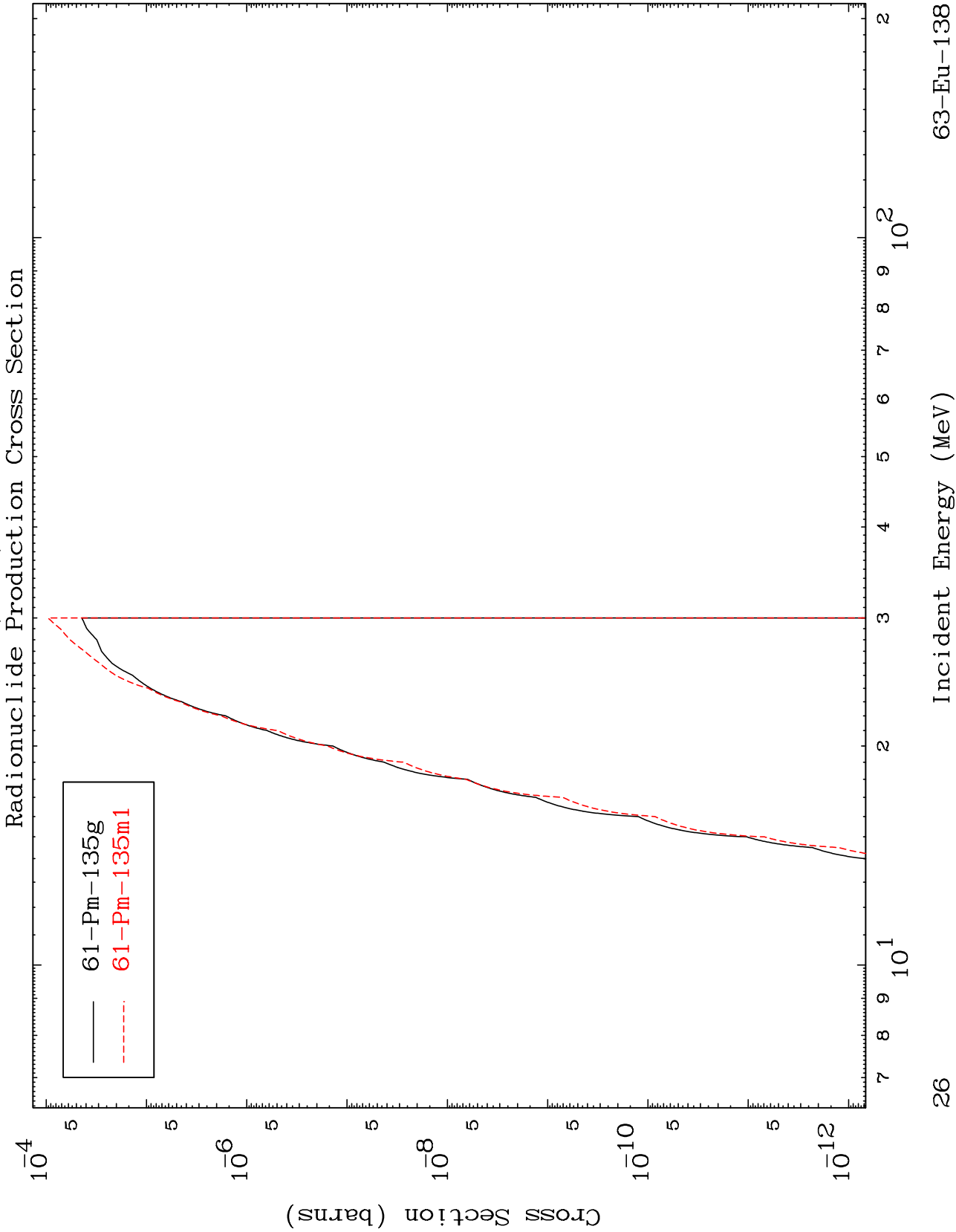
Incident Energy (MeV)

63-Eu-138

MAT 6286

(n,n') He-3

63-Eu-138



26

Incident Energy (MeV)

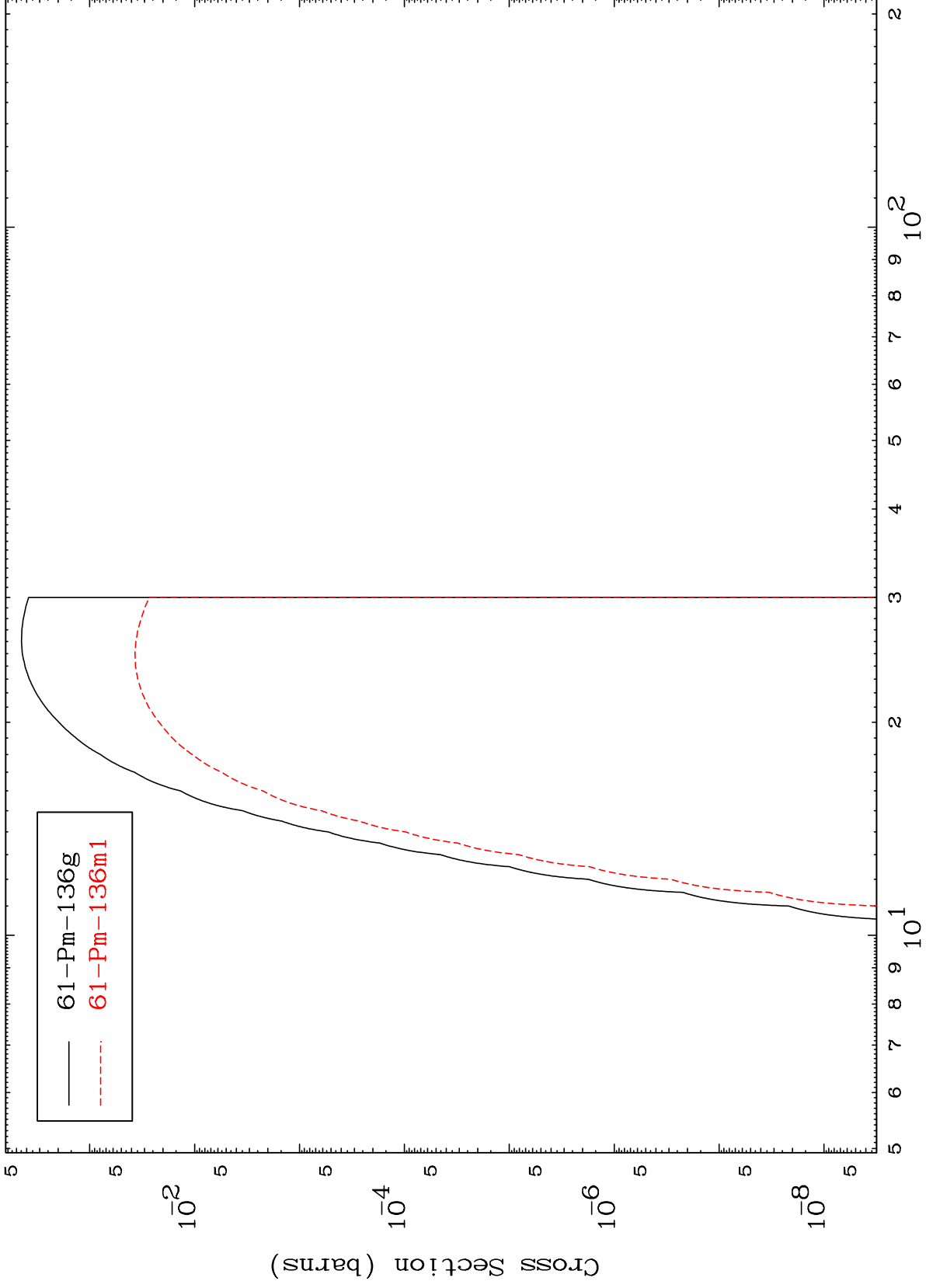
63-Eu-138

MAT 6286

(n,2n) p

63-Eu-138

Radionuclide Production Cross Section



27

Incident Energy (MeV)

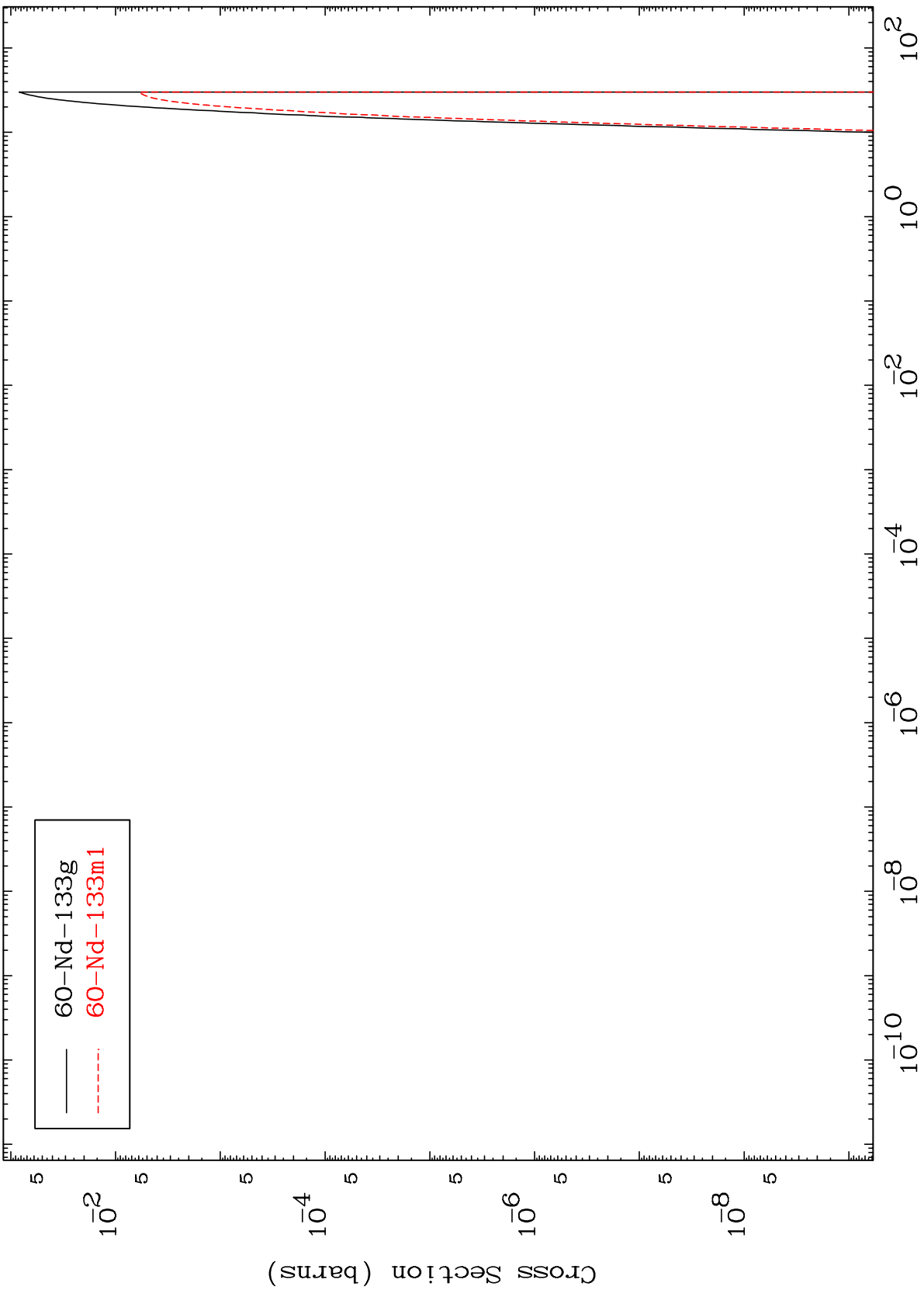
63-Eu-138

MAT 6286

(n,n') p α

63-Eu-138

Radionuclide Production Cross Section



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

Incident Energy (MeV)

63-Eu-138

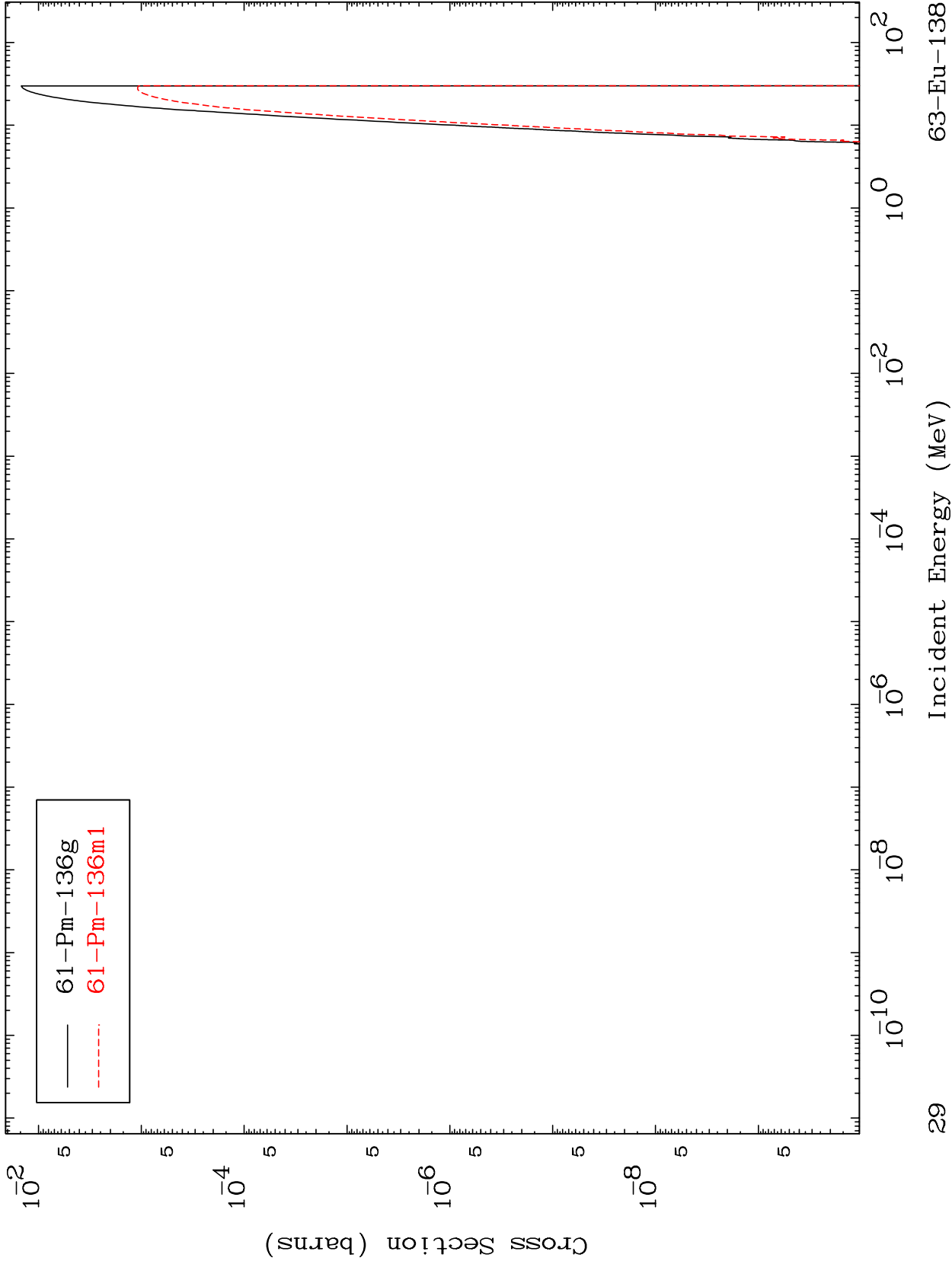
28

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(n,He-3)

63-Eu-138

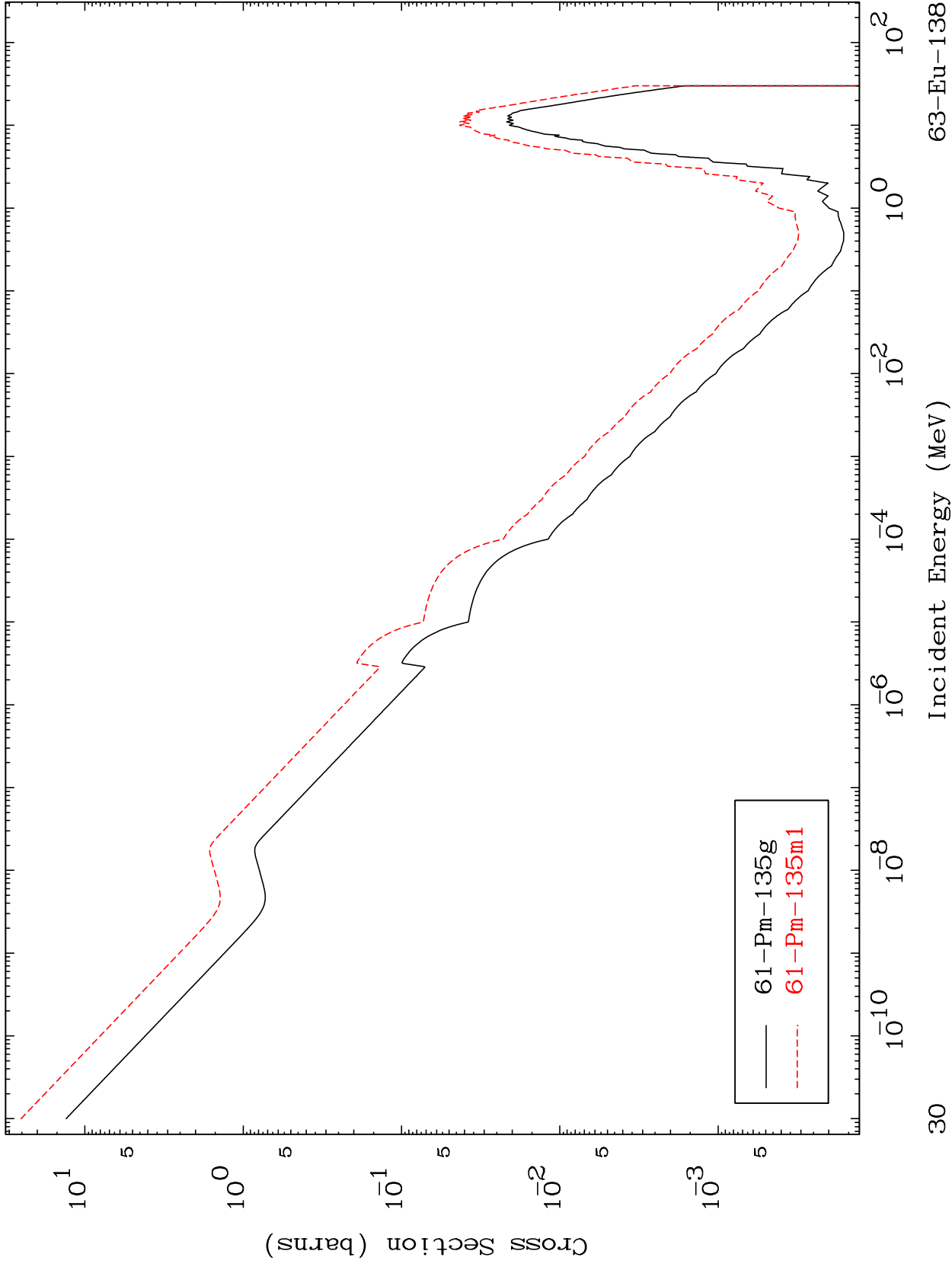
Radionuclide Production Cross Section



MAT 6286

63-Eu-138

(n, α)
Radionuclide Production Cross Section



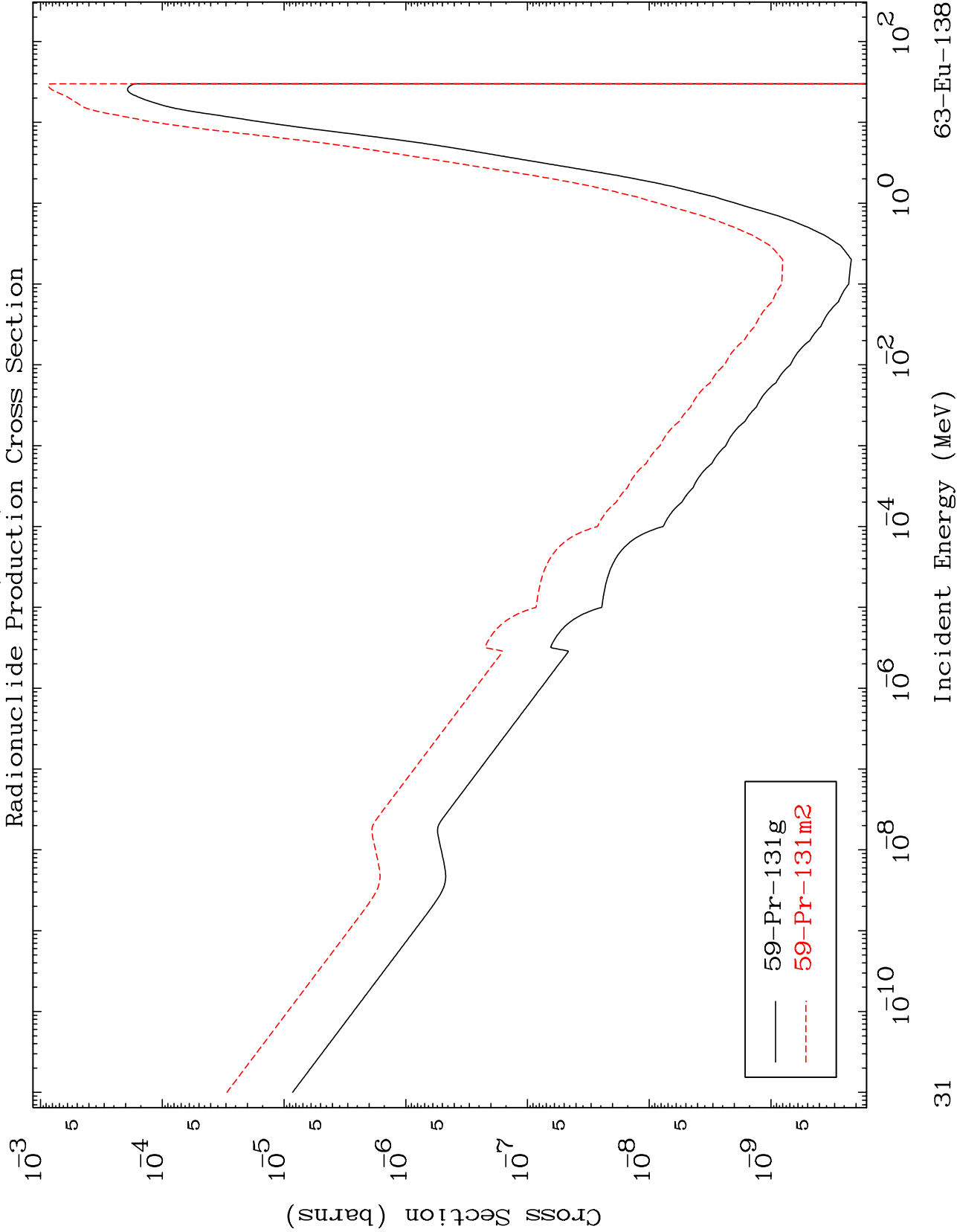
61-Pm-135g
61-Pm-135m1

MAT 6286

(n,2α)

63-Eu-138

Radionuclide Production Cross Section



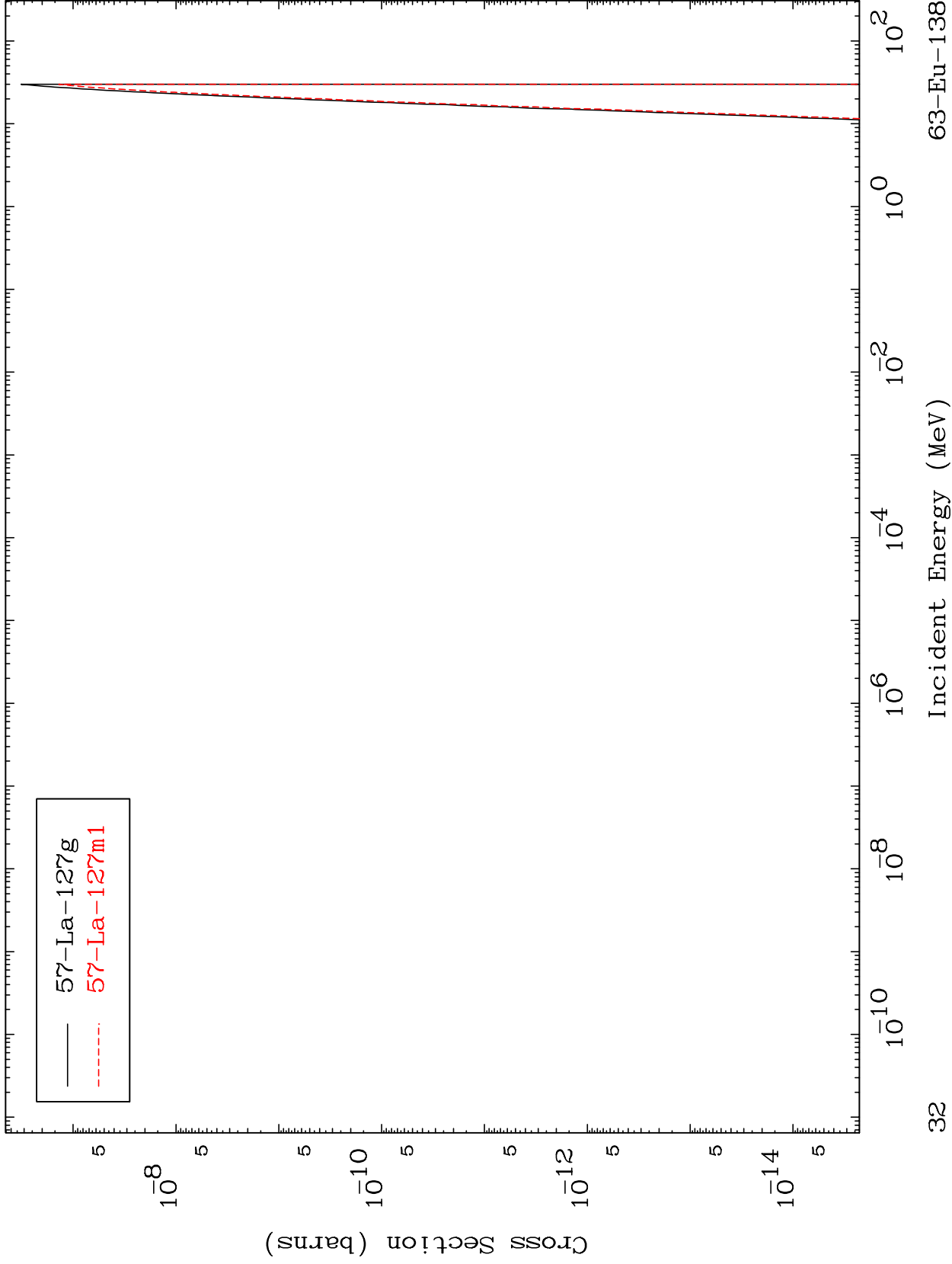
— 59-Pr-131g
- - - 59-Pr-131m2

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(n, 3α)

63-Eu-138

Radionuclide Production Cross Section

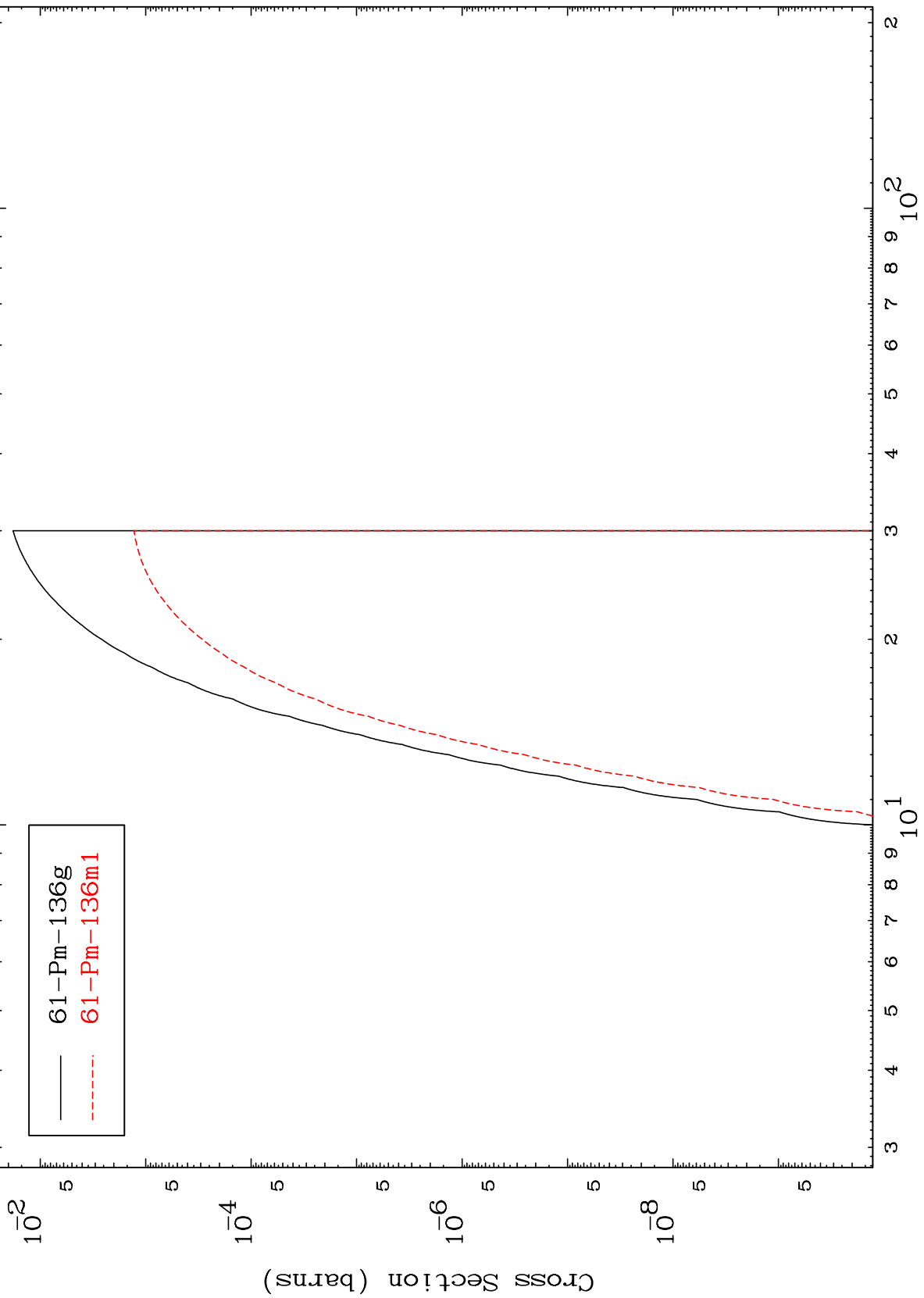


MAT 6286

(n,p) d

63-Eu-138

Radionuclide Production Cross Section



61-Pm-136g
61-Pm-136m1

Incident Energy (MeV)

63-Eu-138

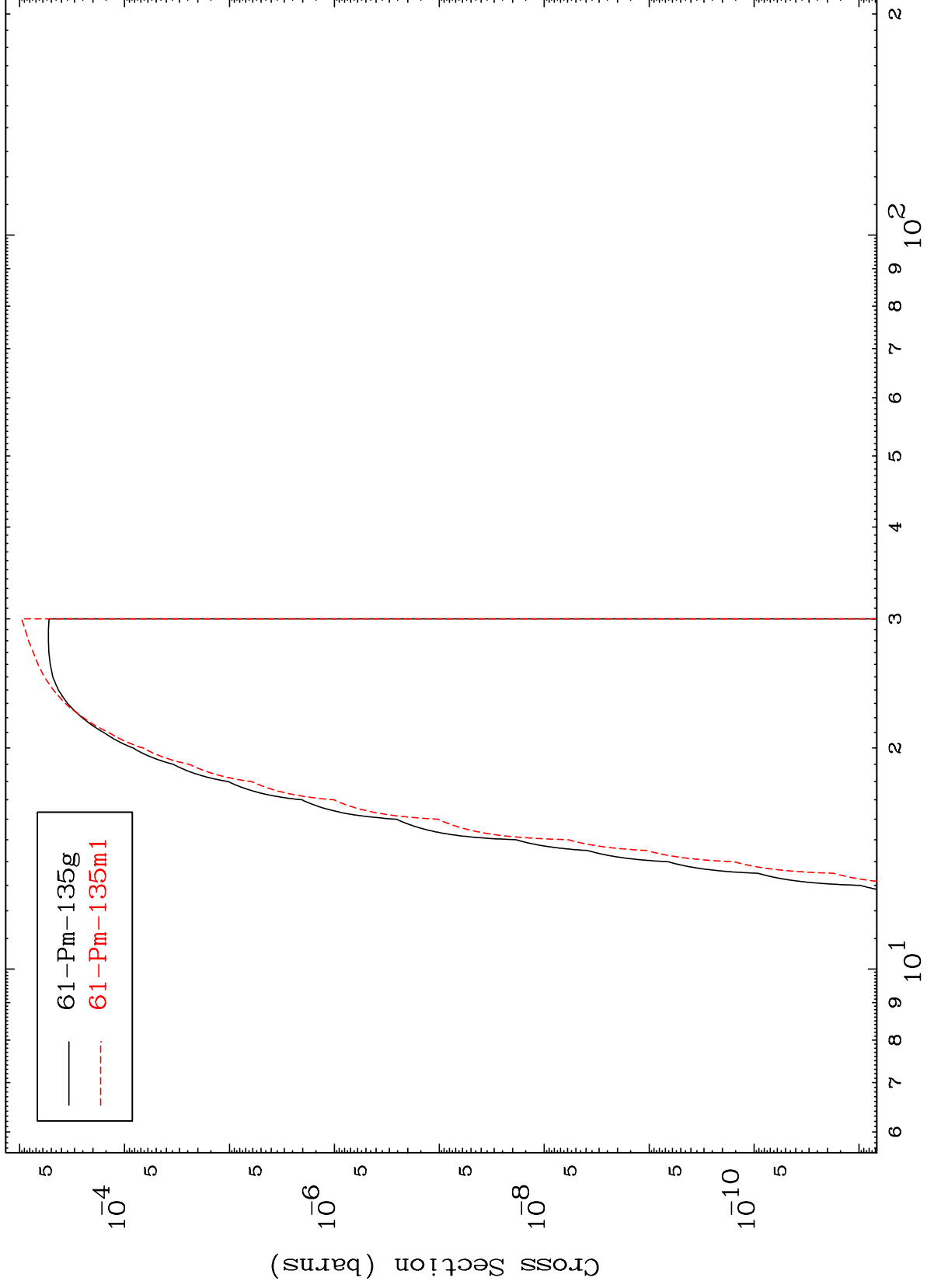
33

MAT 6286

(n,p) t

63-Eu-138

Radionuclide Production Cross Section



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

34

Incident Energy (MeV)

63-Eu-138

MAT 6286

(n,d) α

$^{63}\text{Eu}-138$

Radionuclide Production Cross Section

