

Program EVALPLOT
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

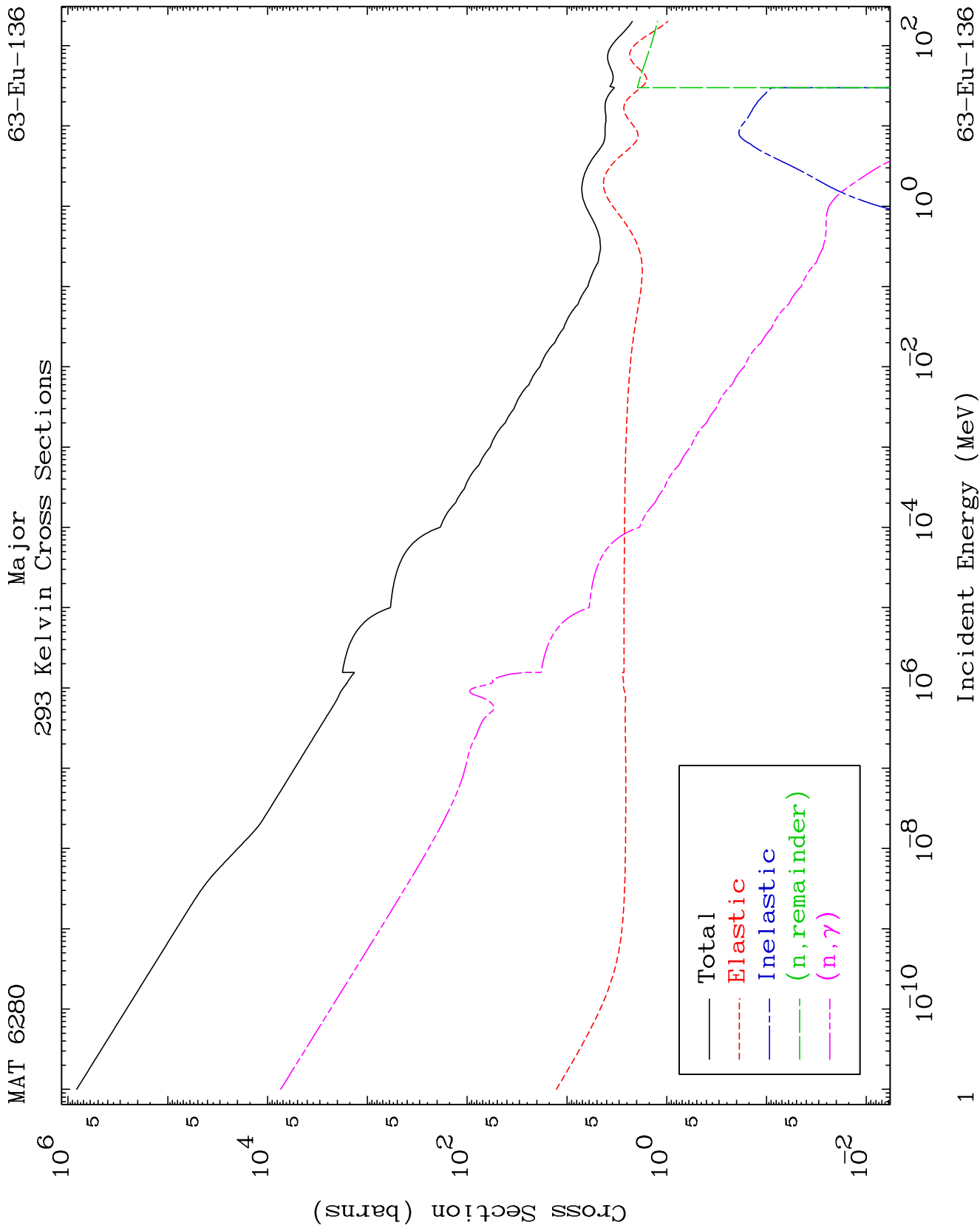
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Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start



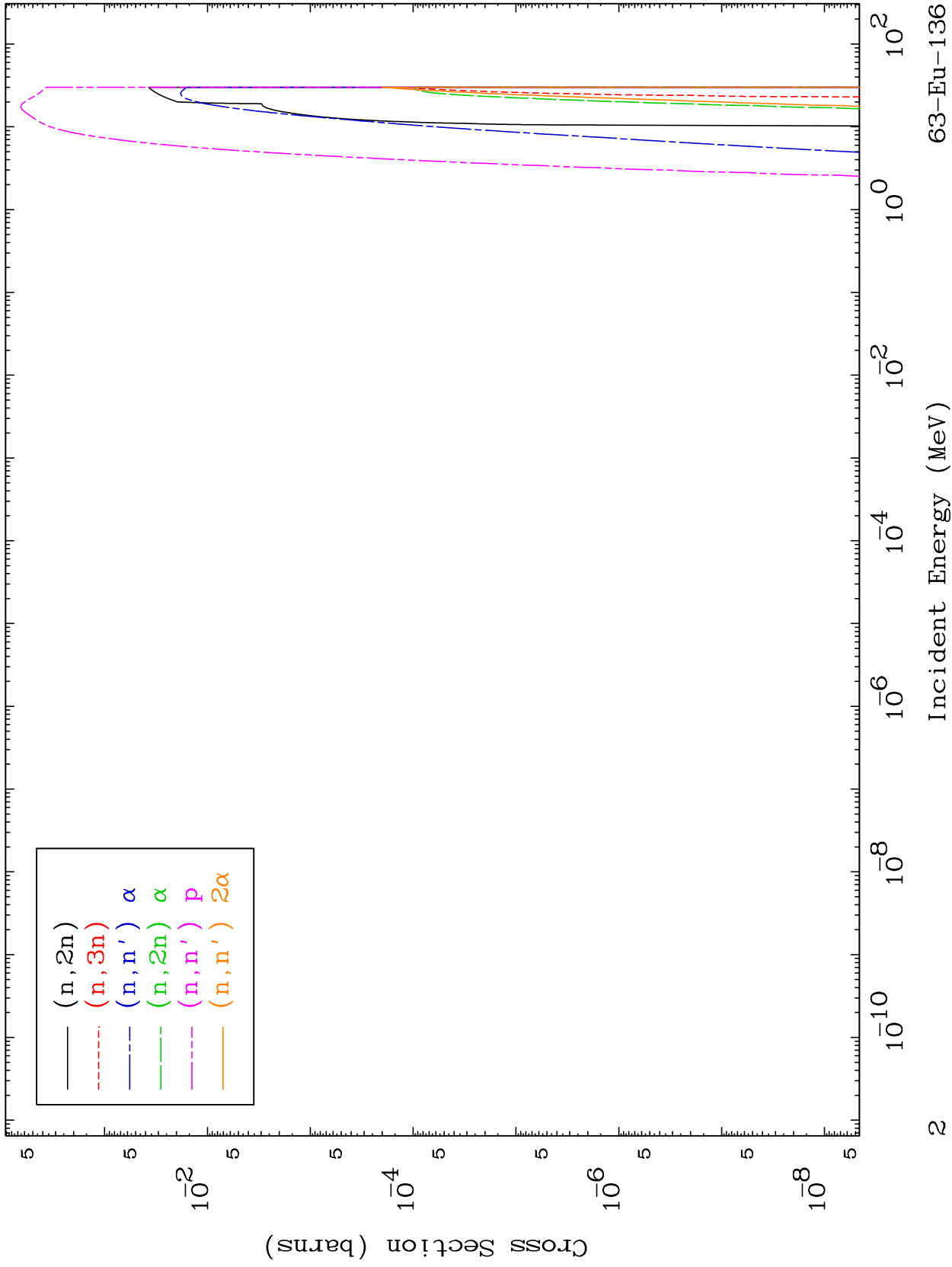
MAT 6280

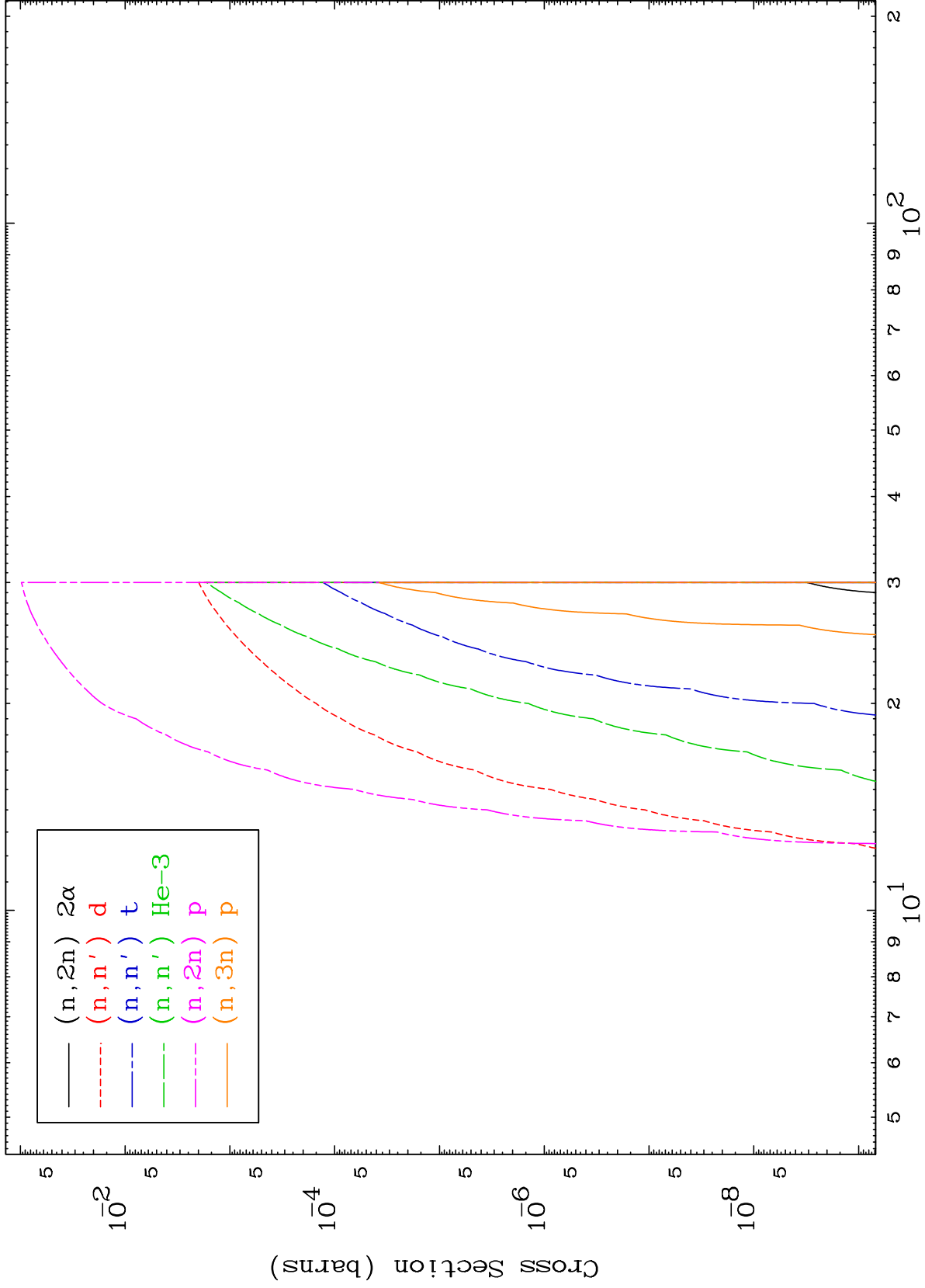
63-Eu-136

MAT 6280

Neutron Production
293 Kelvin Cross Sections

63-Eu-136

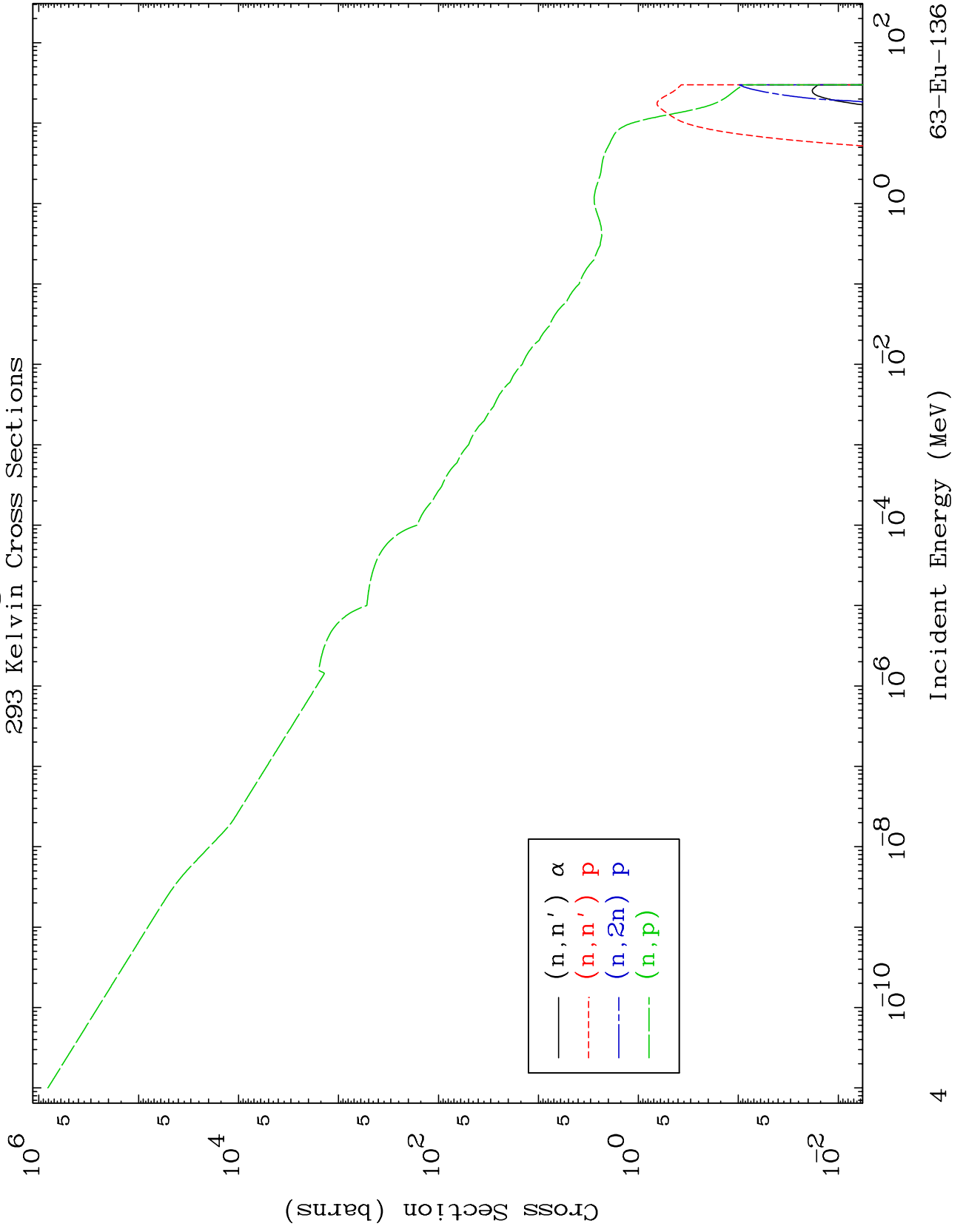


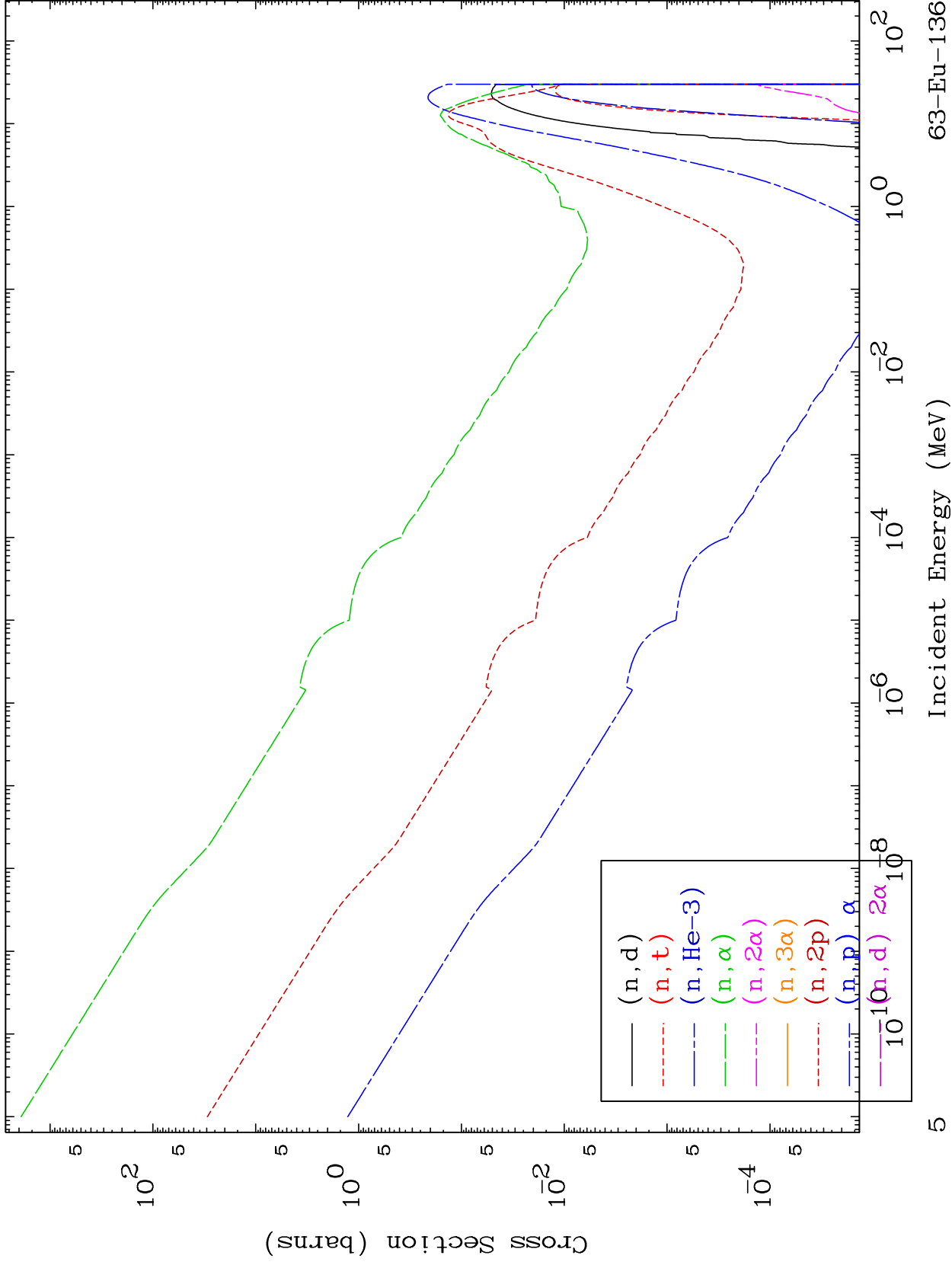


MAT 6280

Charged Particle
293 Kelvin Cross Sections

63-Eu-136

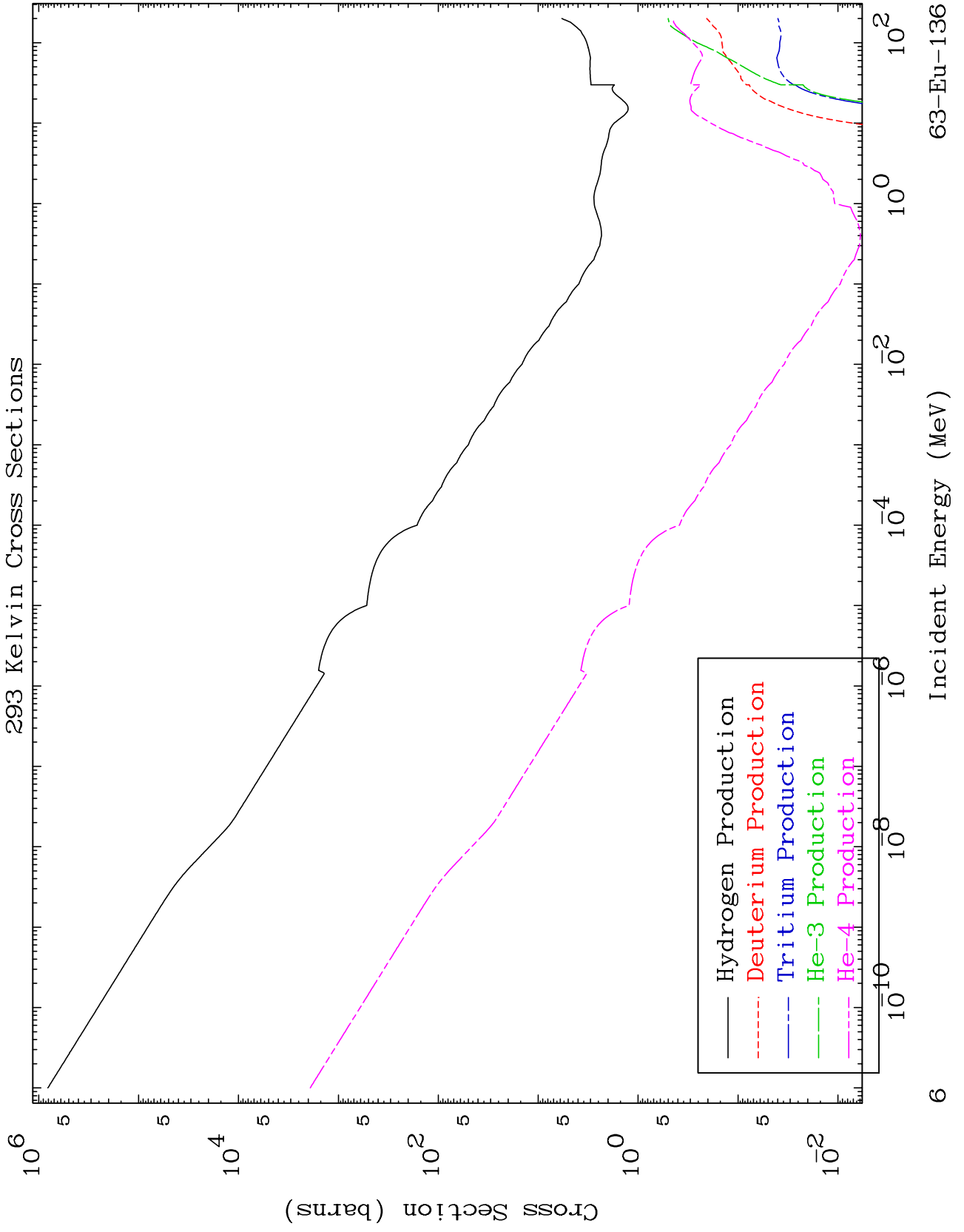




MAT 6280

Particle Production
293 Kelvin Cross Sections

63-Eu-136

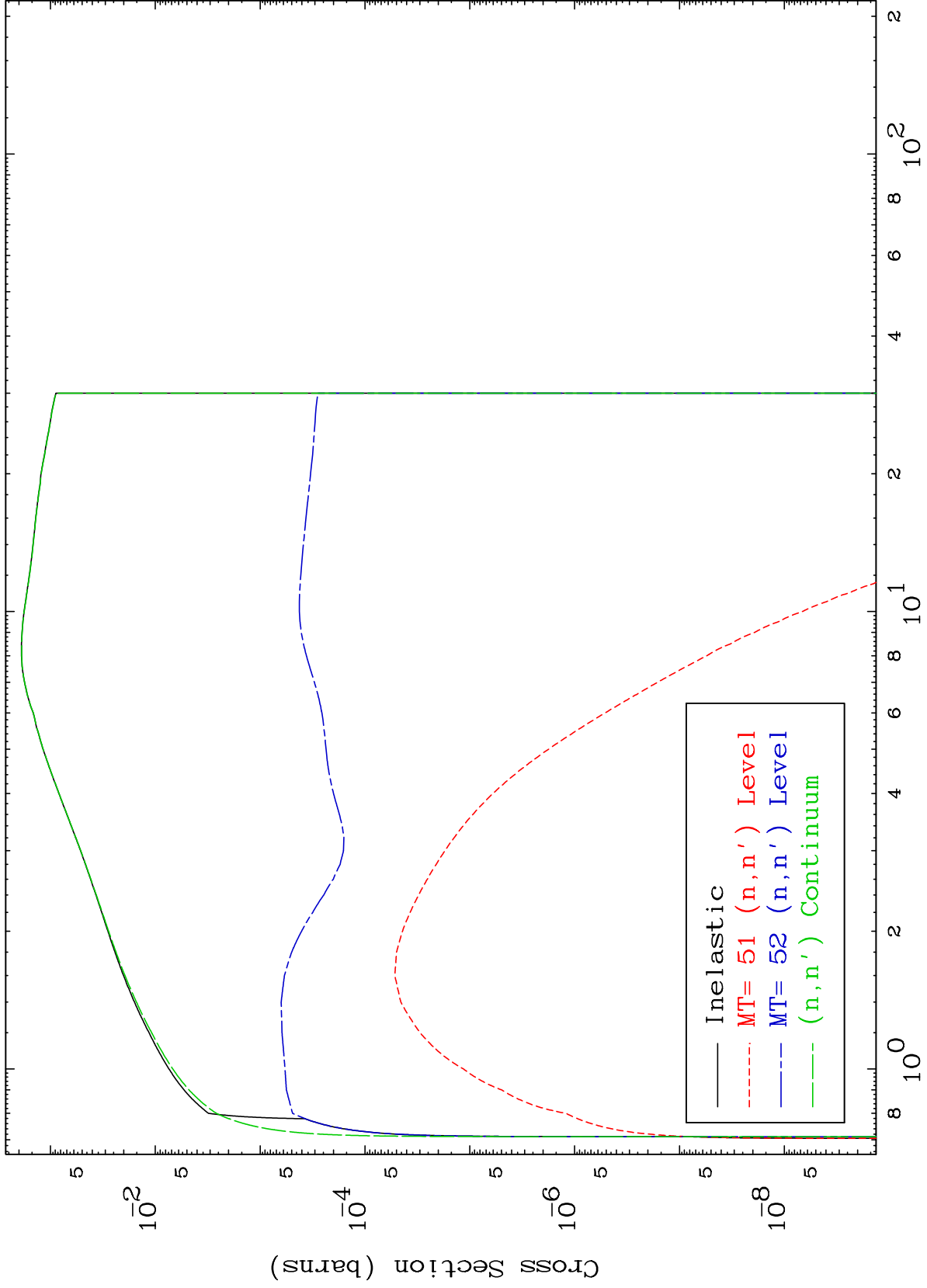


MAT 6280

(n,n') Level

63-Eu-136

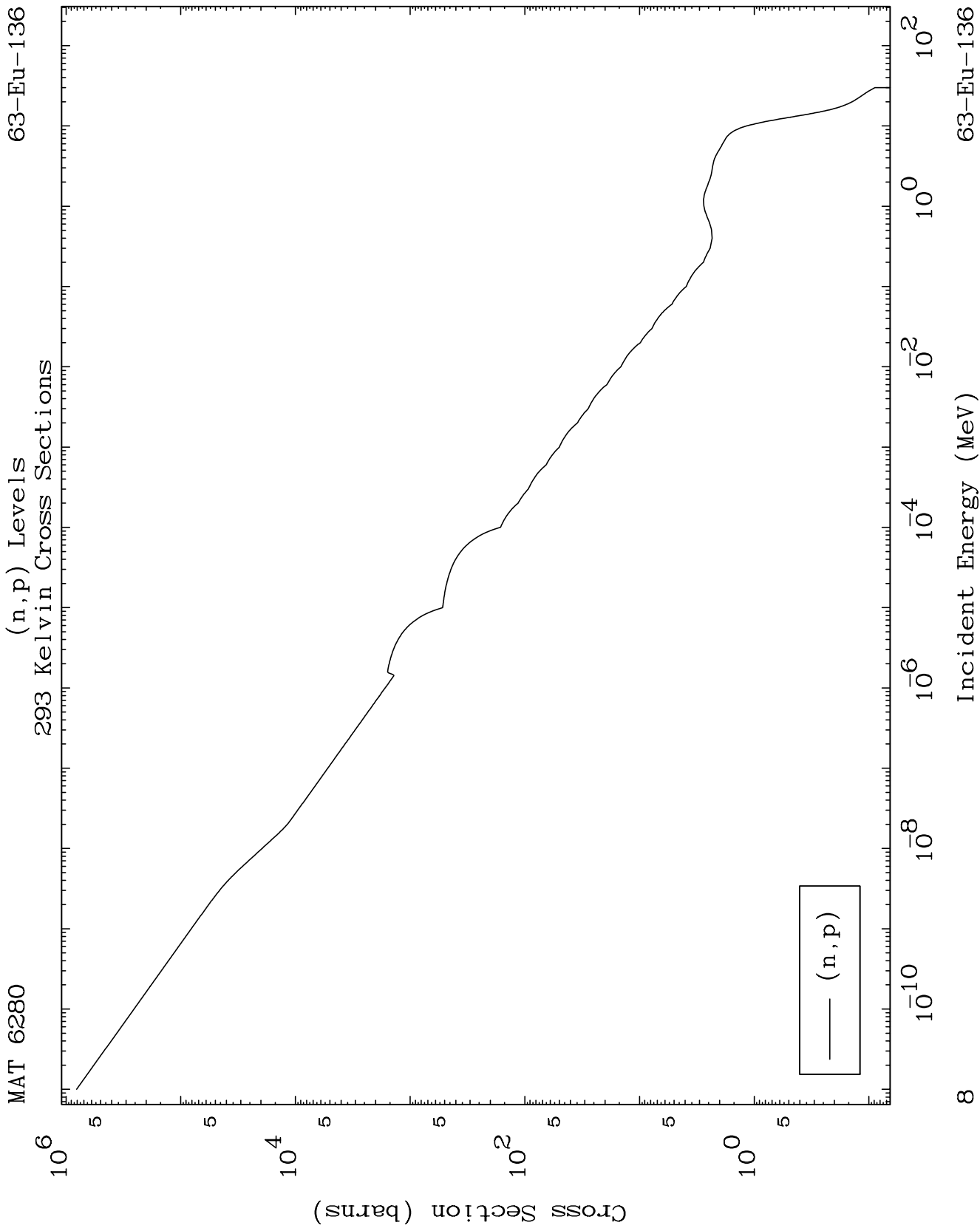
293 Kelvin Cross Sections



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Incident Energy (MeV)

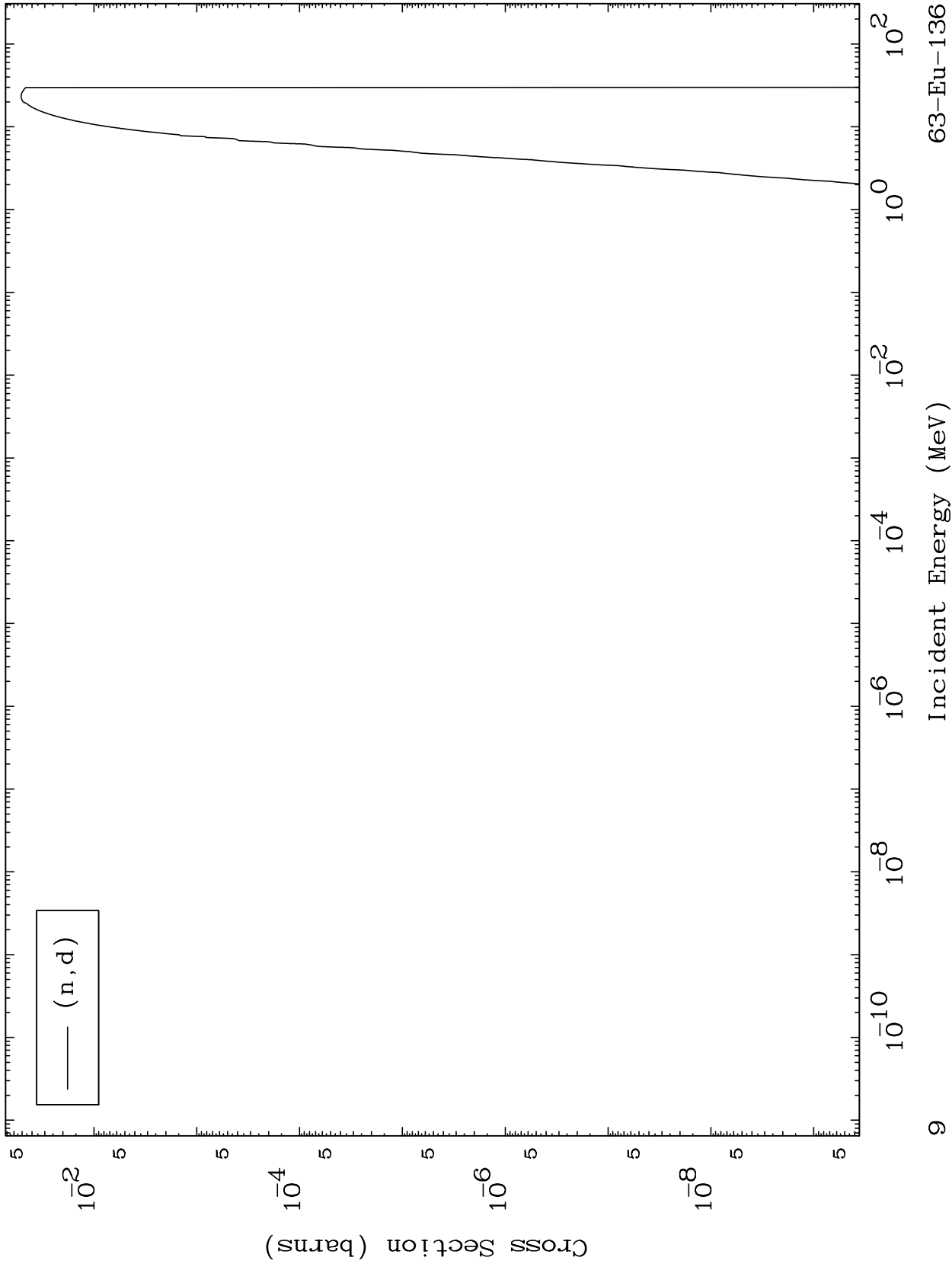
63-Eu-136



MAT 6280

(n,d) Levels
293 Kelvin Cross Sections

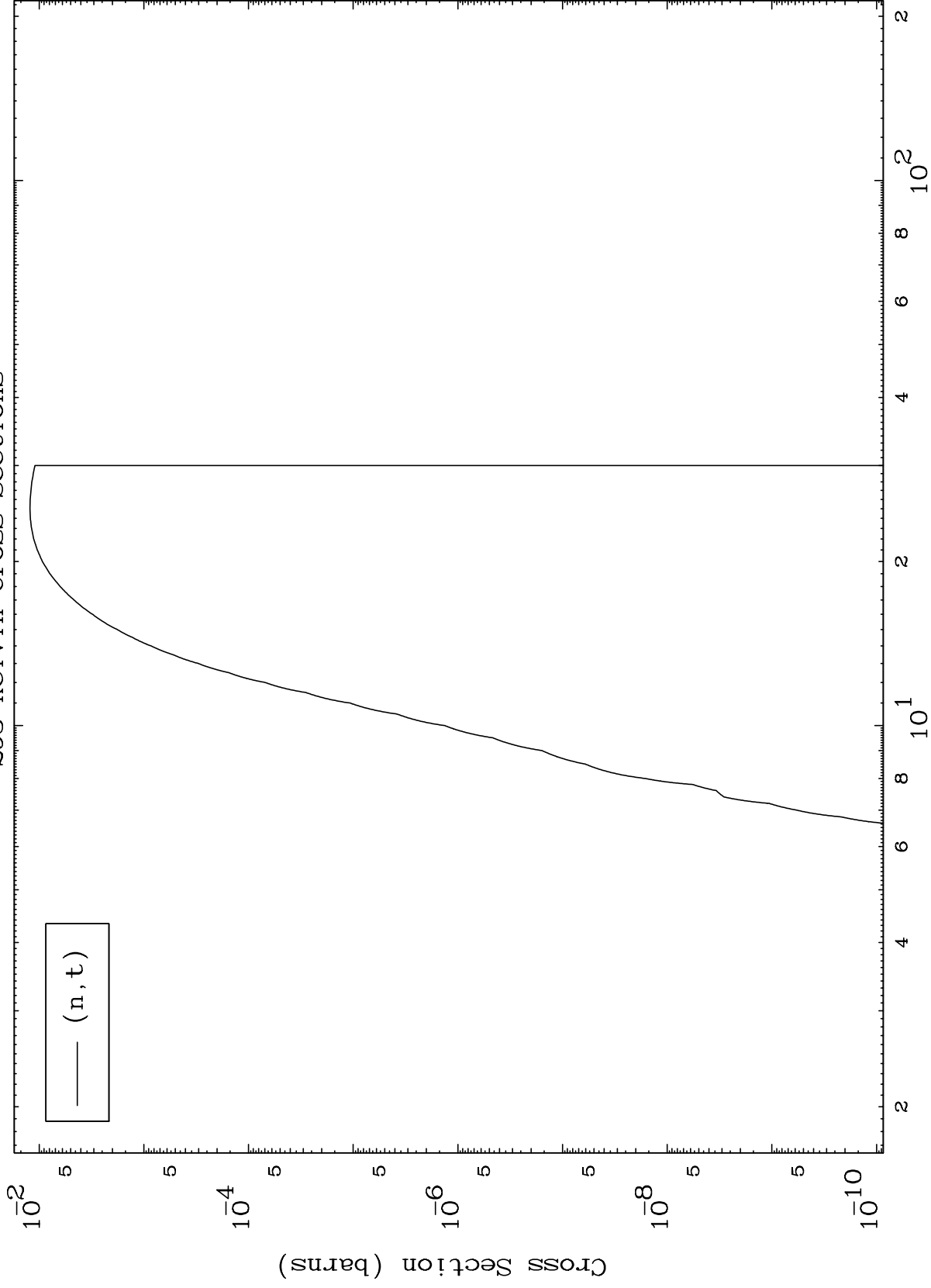
63-Eu-136



MAT 6280

(n,t) Levels
293 Kelvin Cross Sections

63-Eu-136



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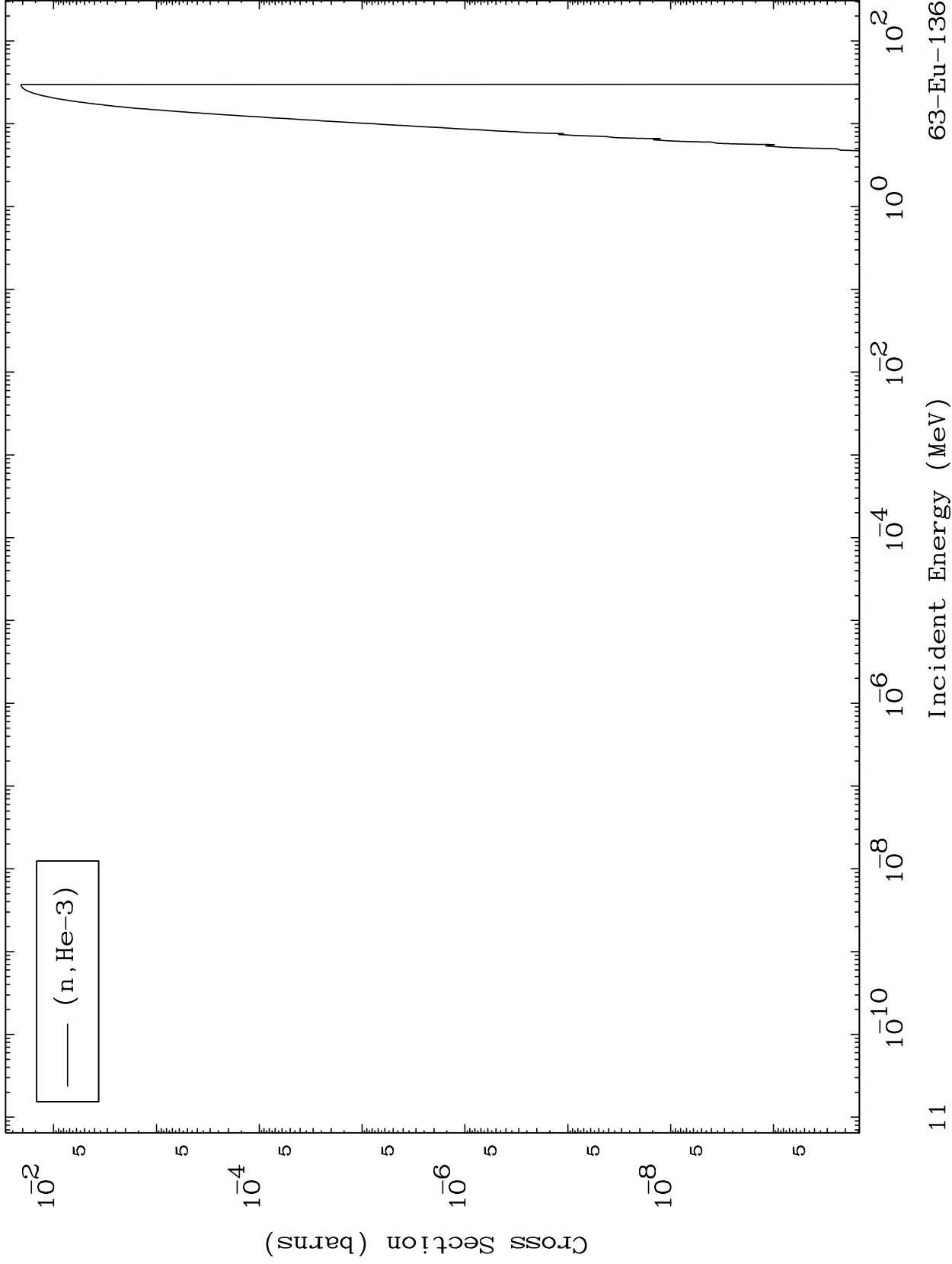
Incident Energy (MeV)

63-Eu-136

MAT 6280

(n,He3) Levels
293 Kelvin Cross Sections

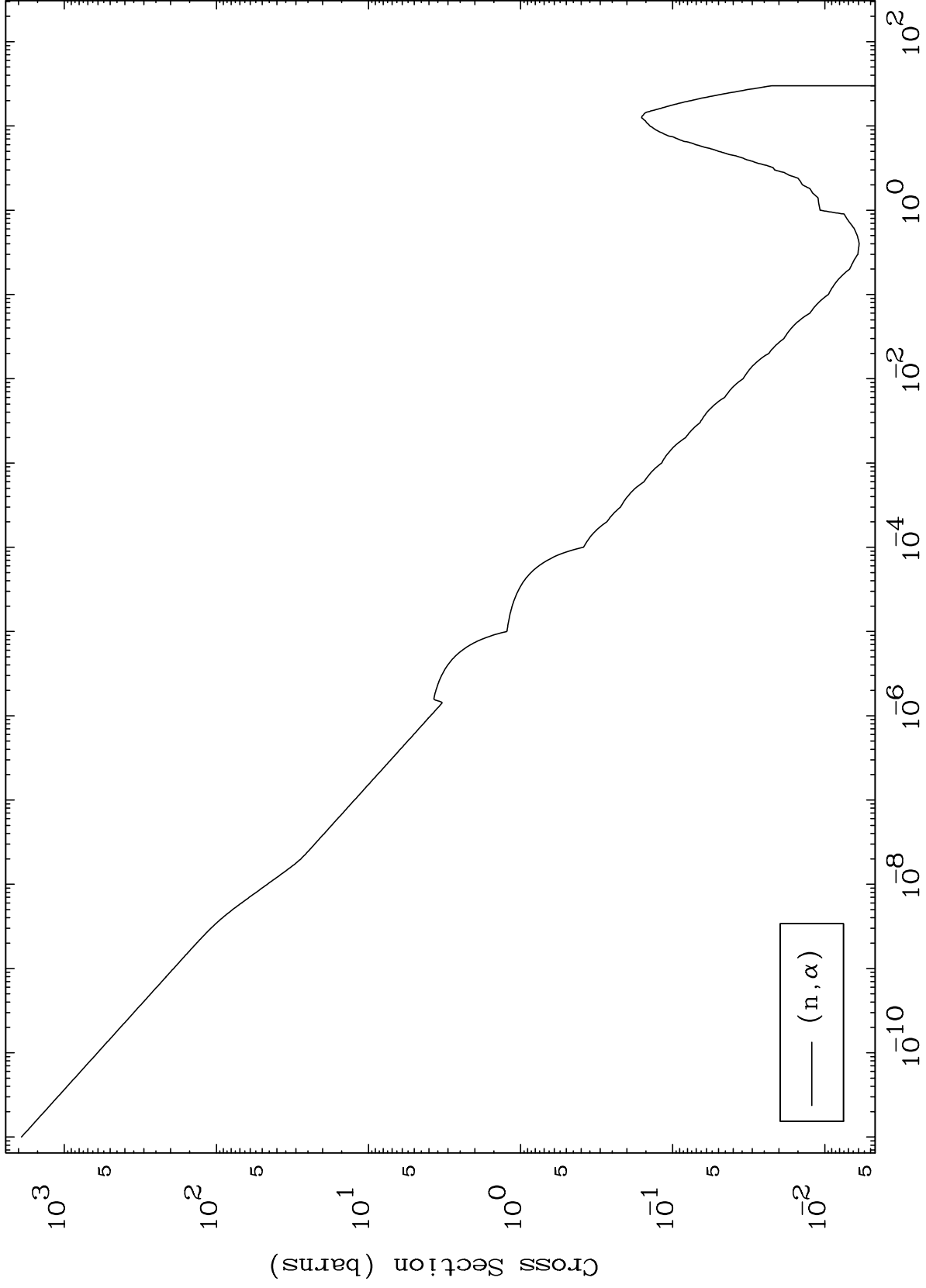
63-Eu-136

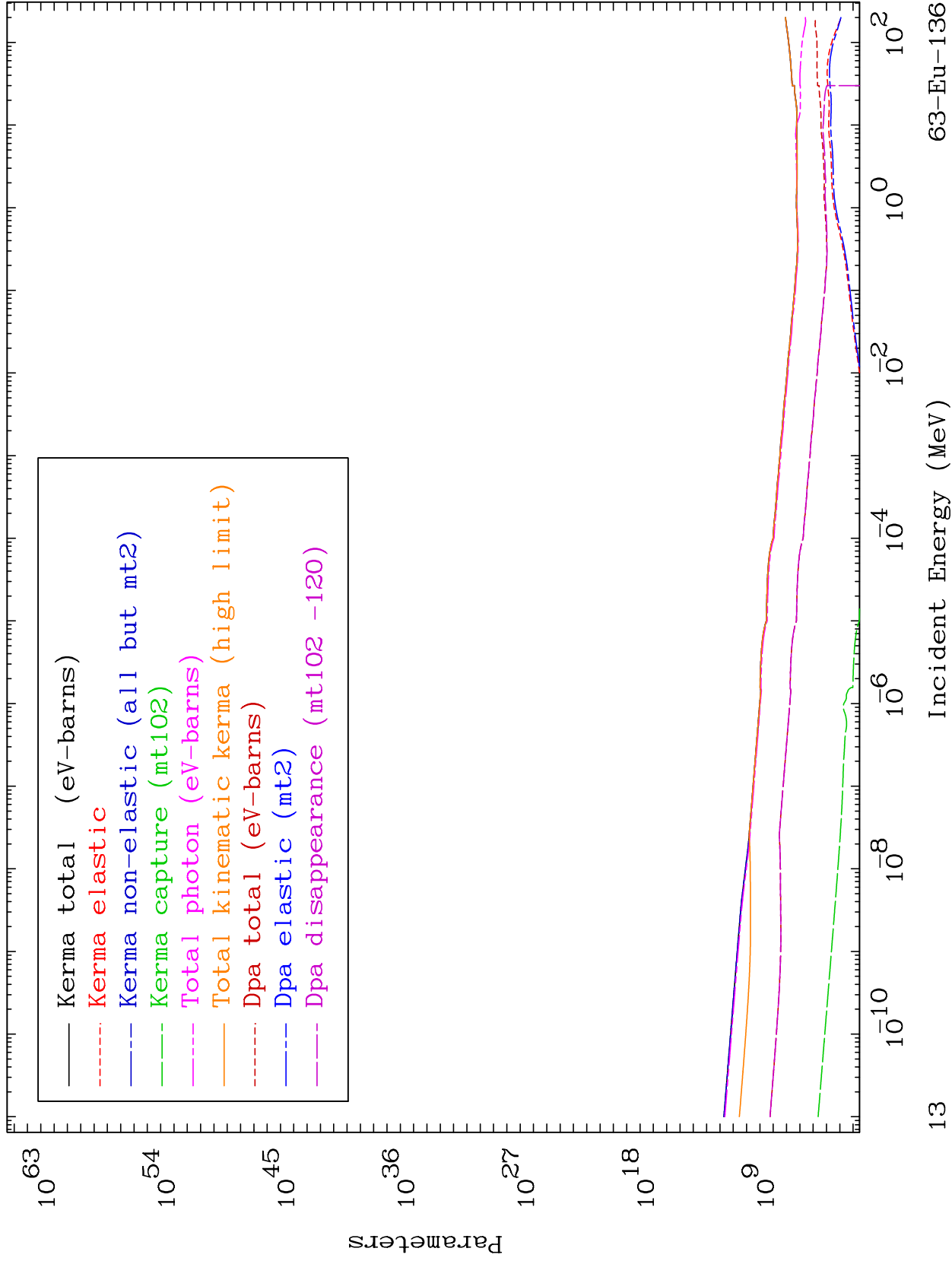


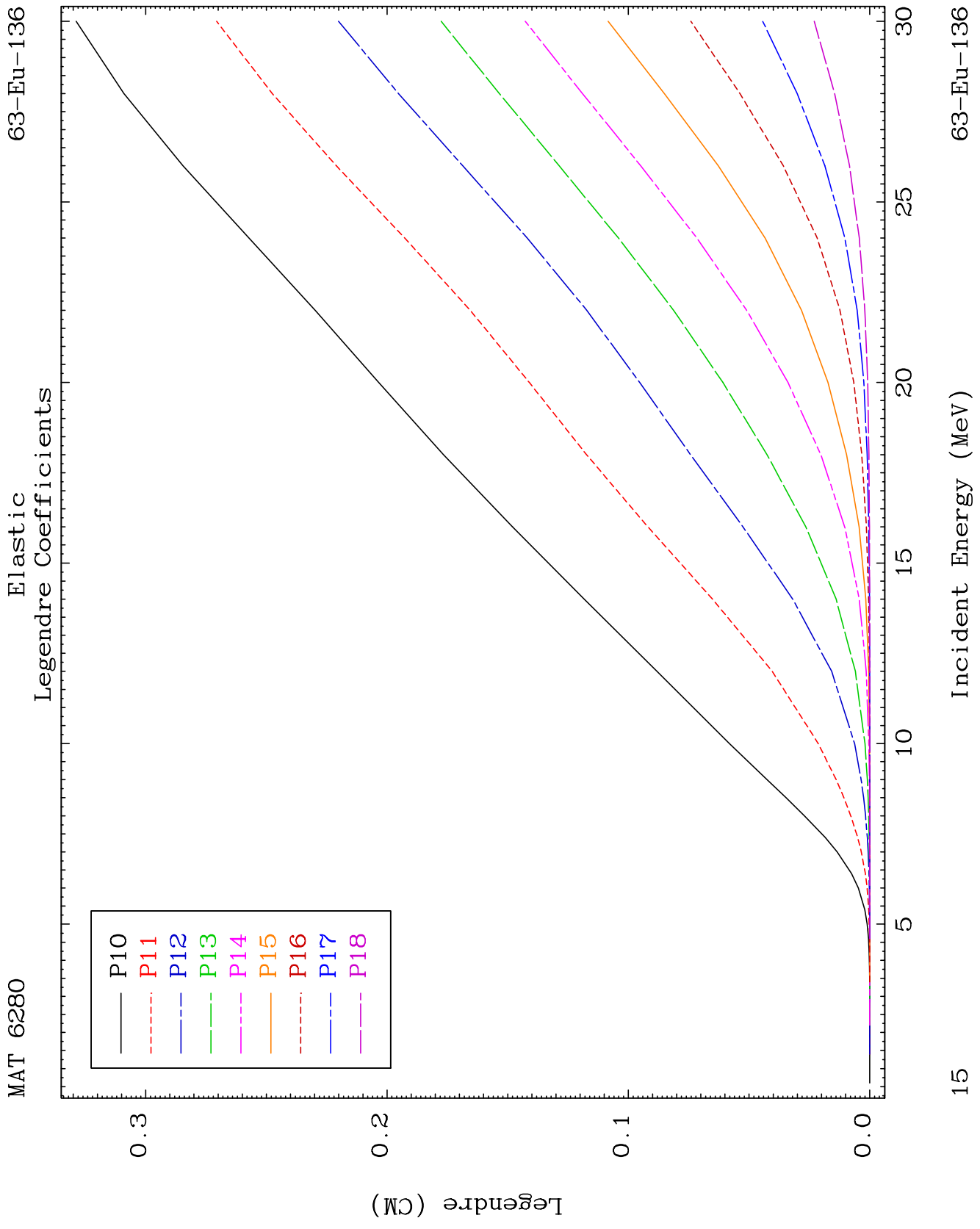
MAT 6280

(n,α) Levels
293 Kelvin Cross Sections

63-Eu-136



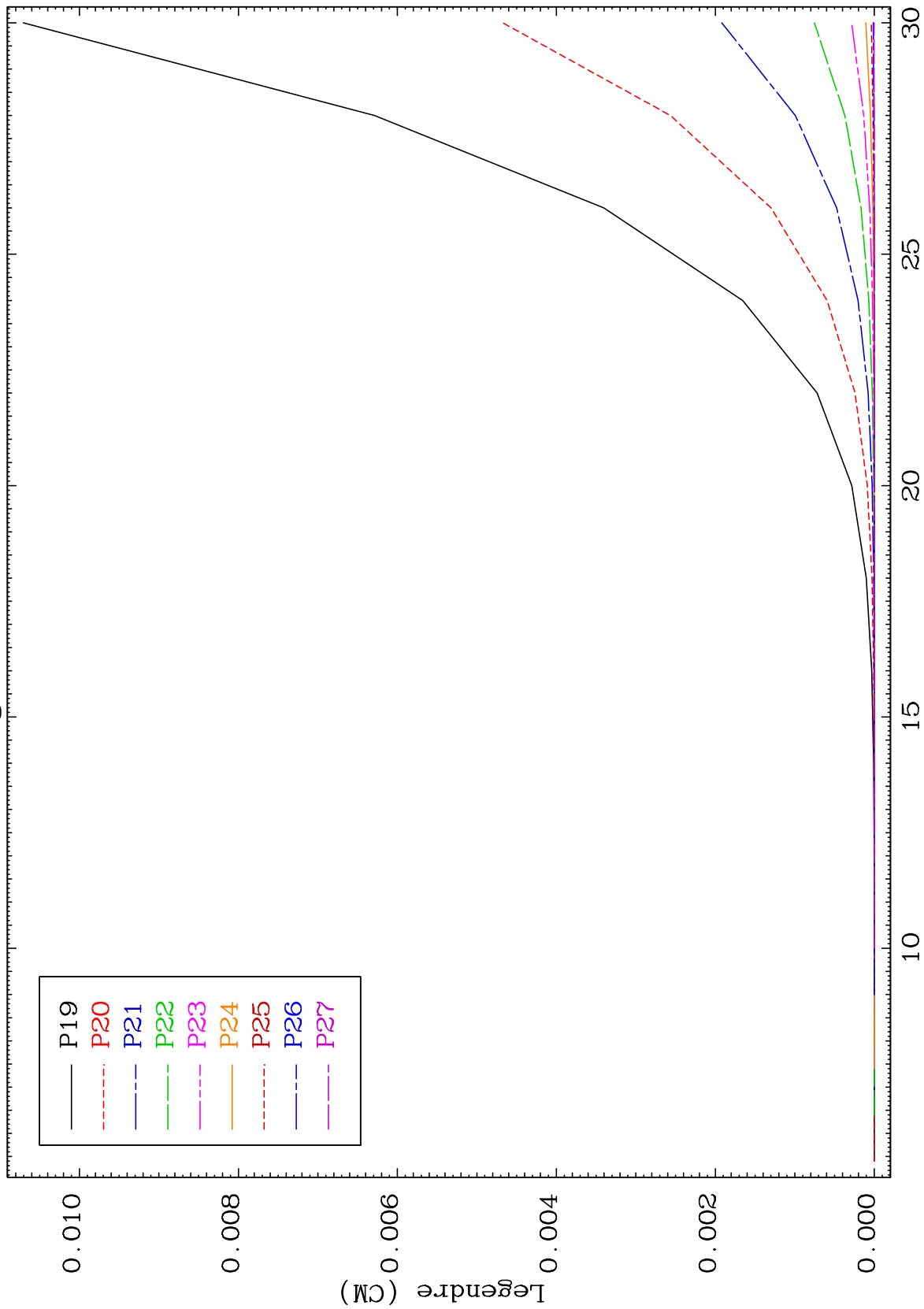




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Elastic Legendre Coefficients

63-Eu-136



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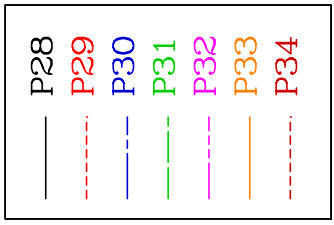
Incident Energy (MeV)

63-Eu-136

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Elastic Legendre Coefficients

63-Eu-136



$\times 10^{-6}$

Legendre (CM)

1.0
0.8
0.6
0.4
0.2
0.0

10

15

20

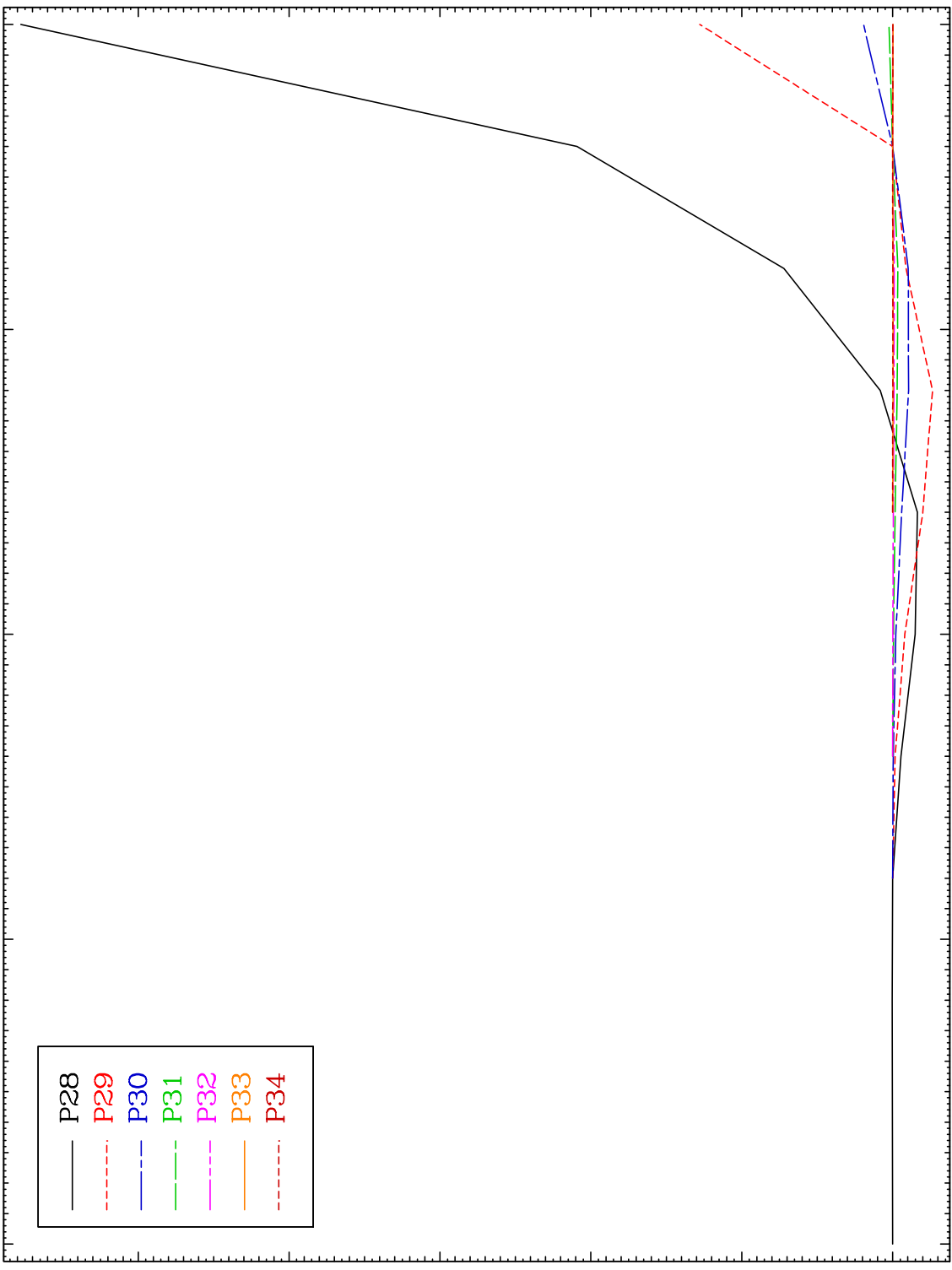
25

30

17

Incident Energy (MeV)

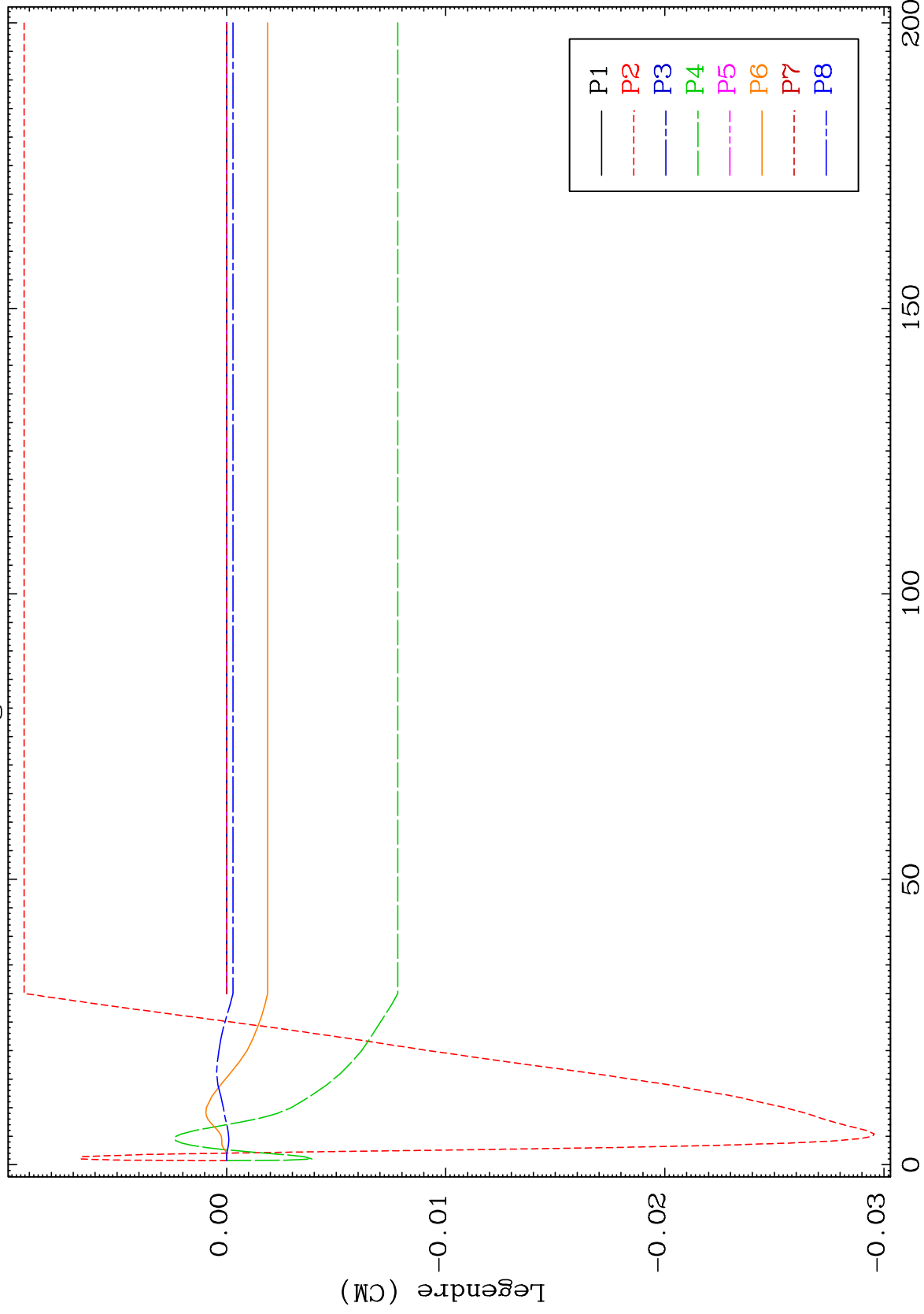
63-Eu-136



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

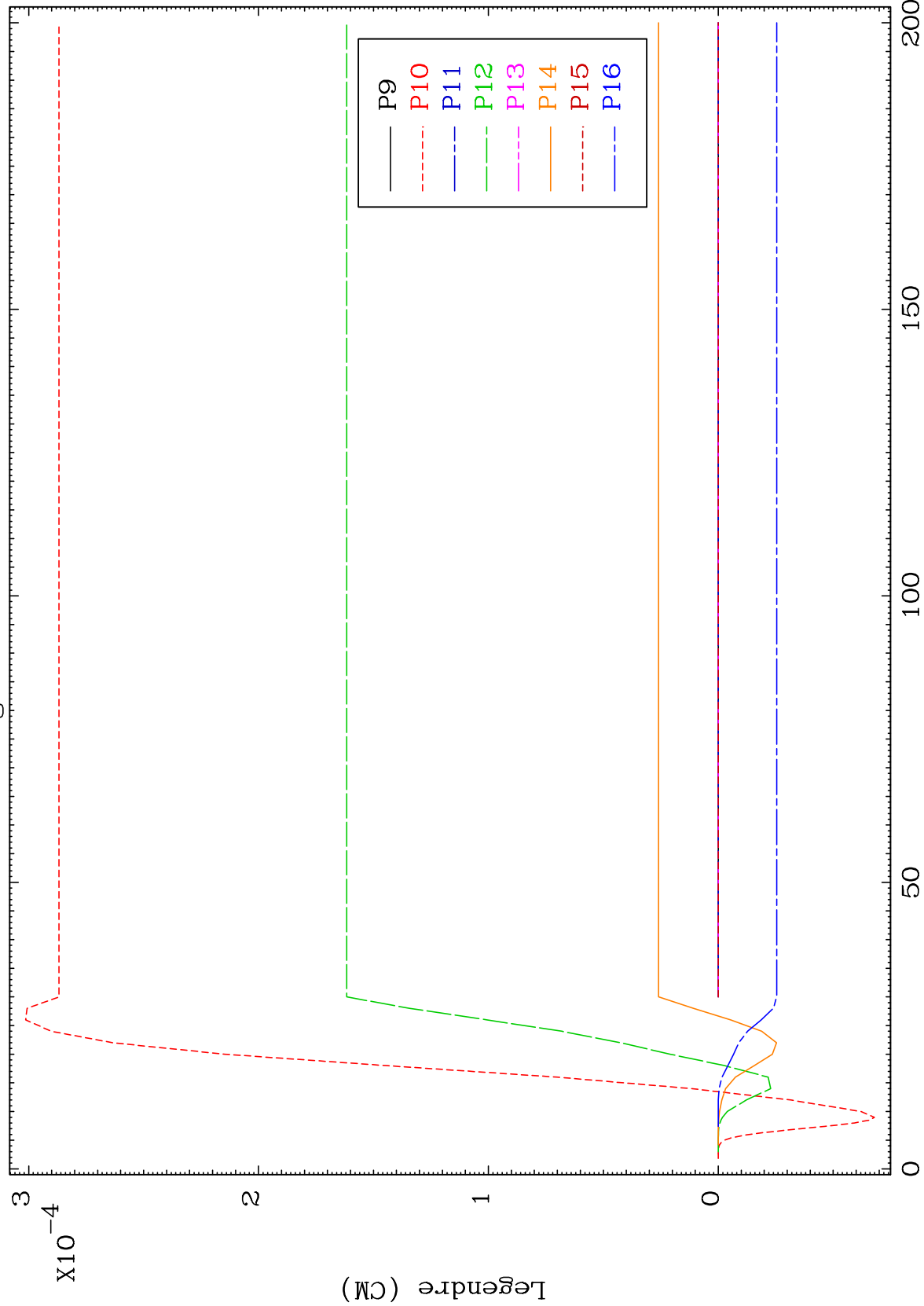
63-Eu-136

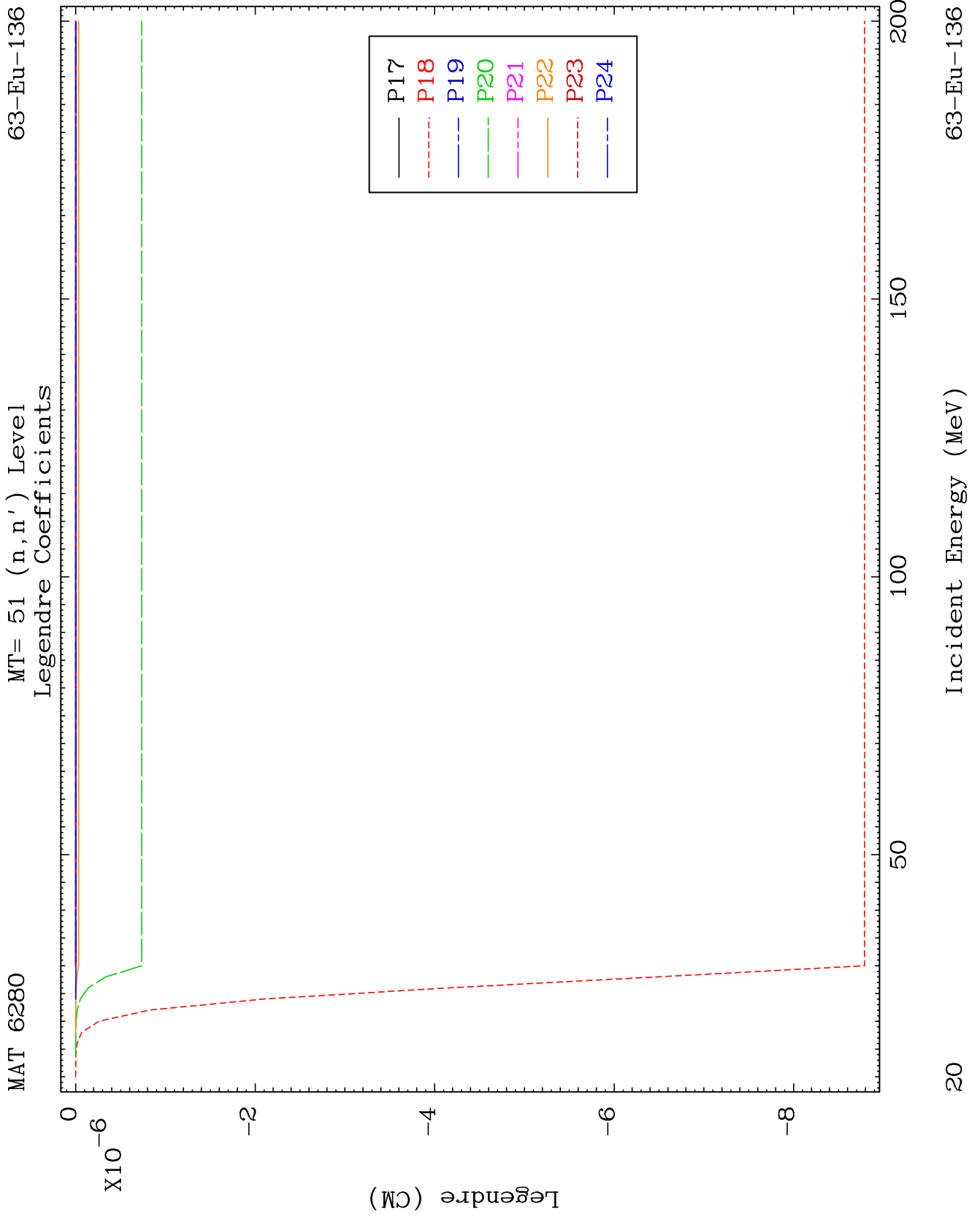


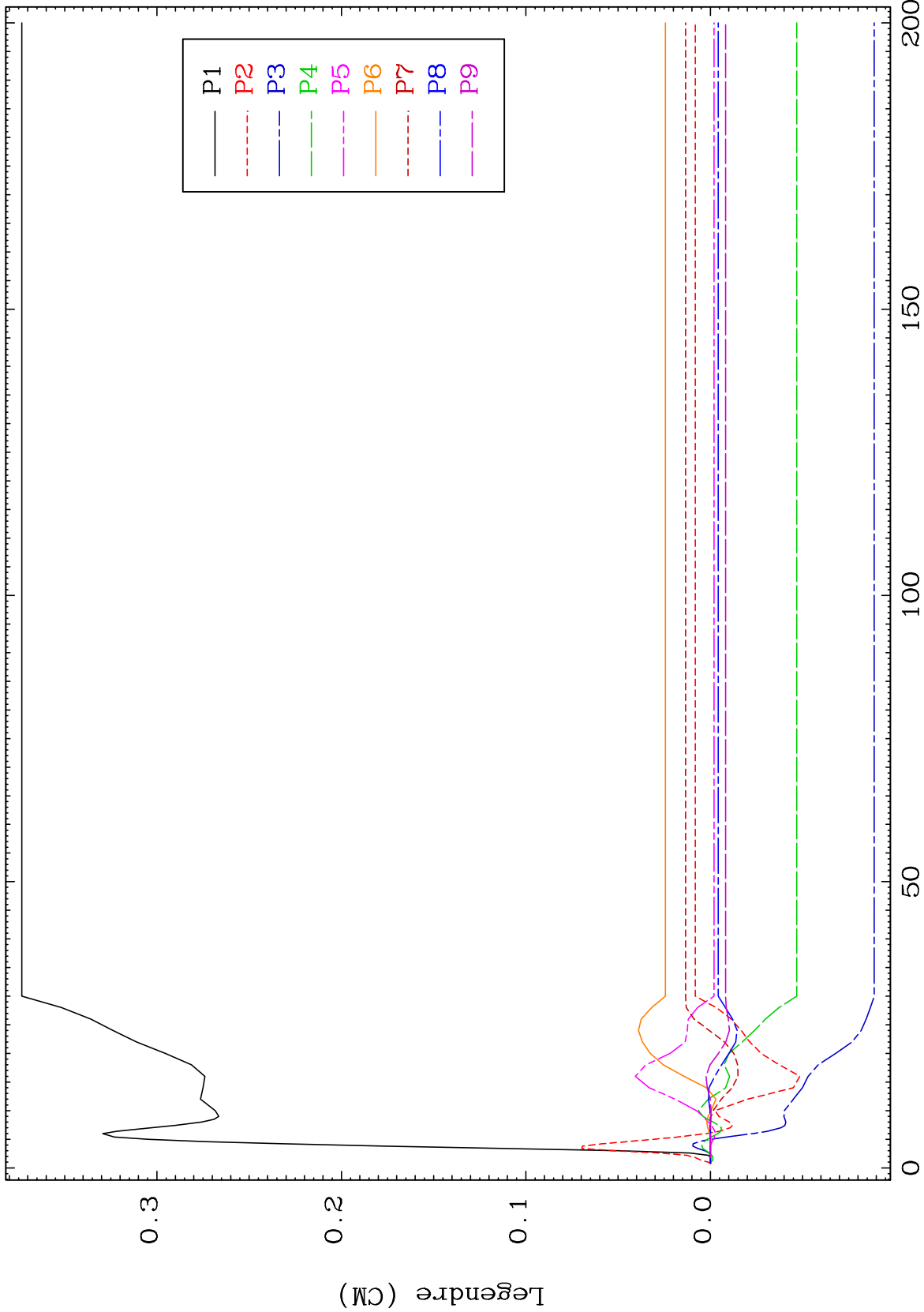
18

63-Eu-136

63-Eu-136



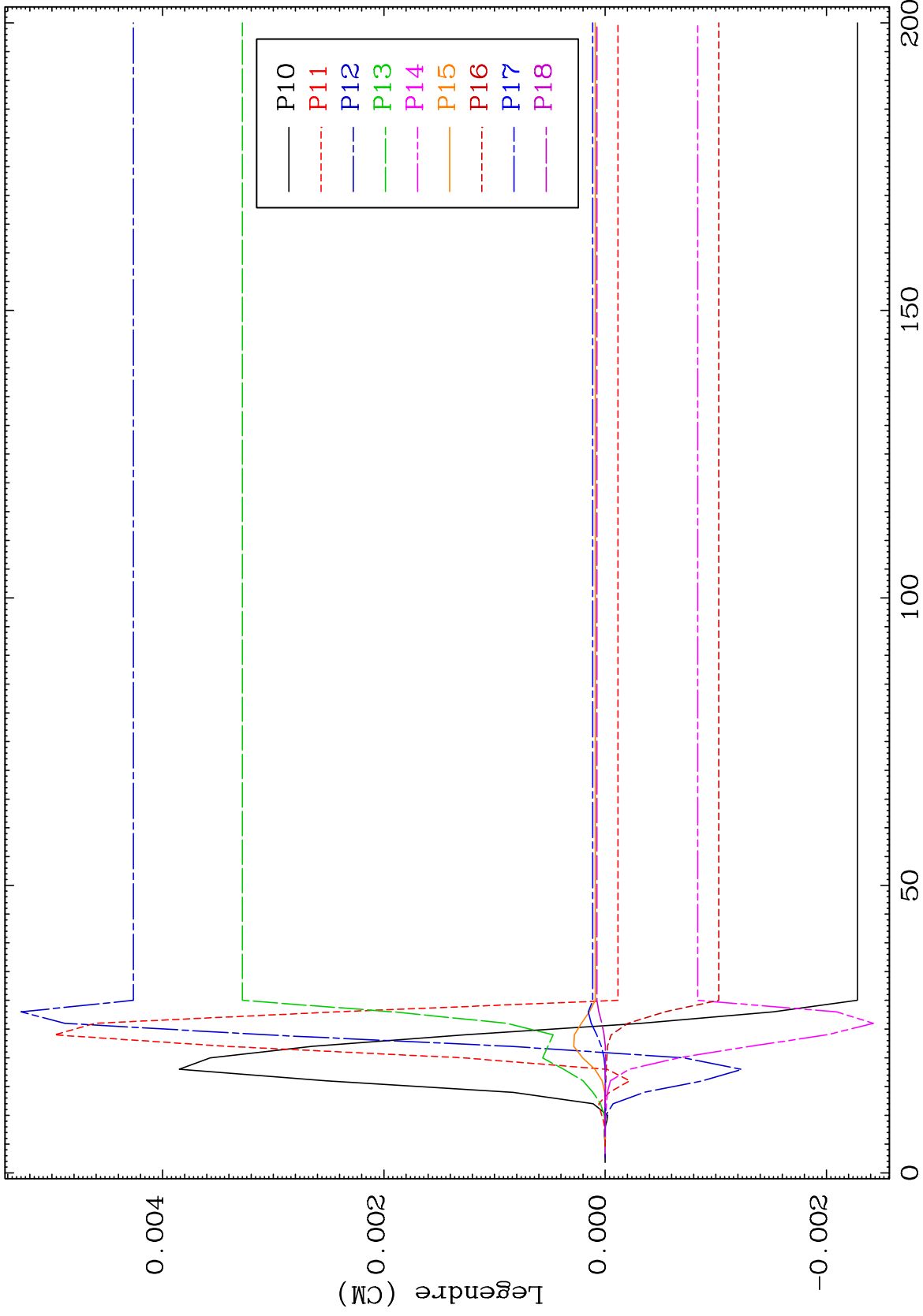




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MT= 52 (n,n') Level
Legendre Coefficients

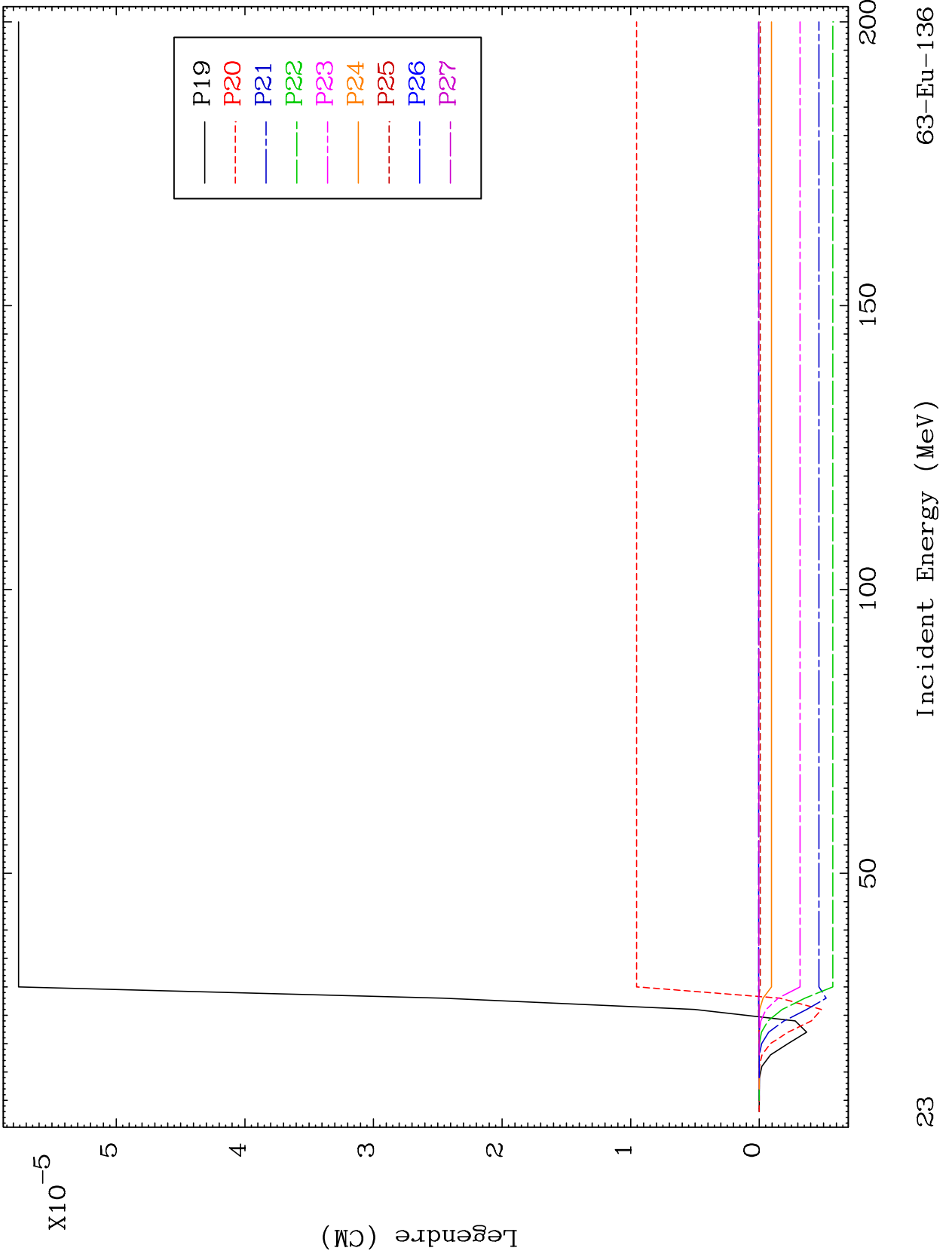
63-Eu-136

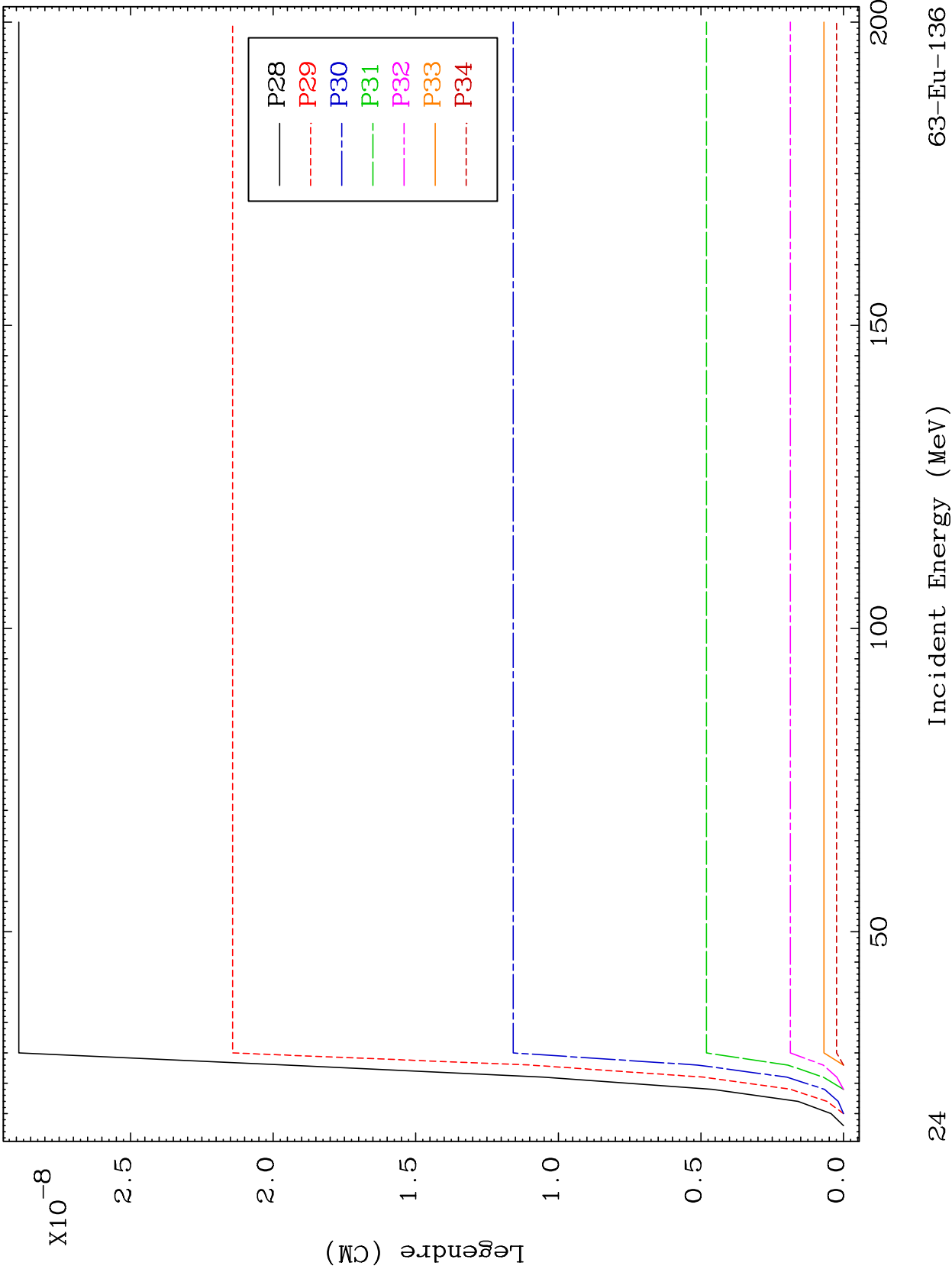


22

Incident Energy (MeV)

63-Eu-136

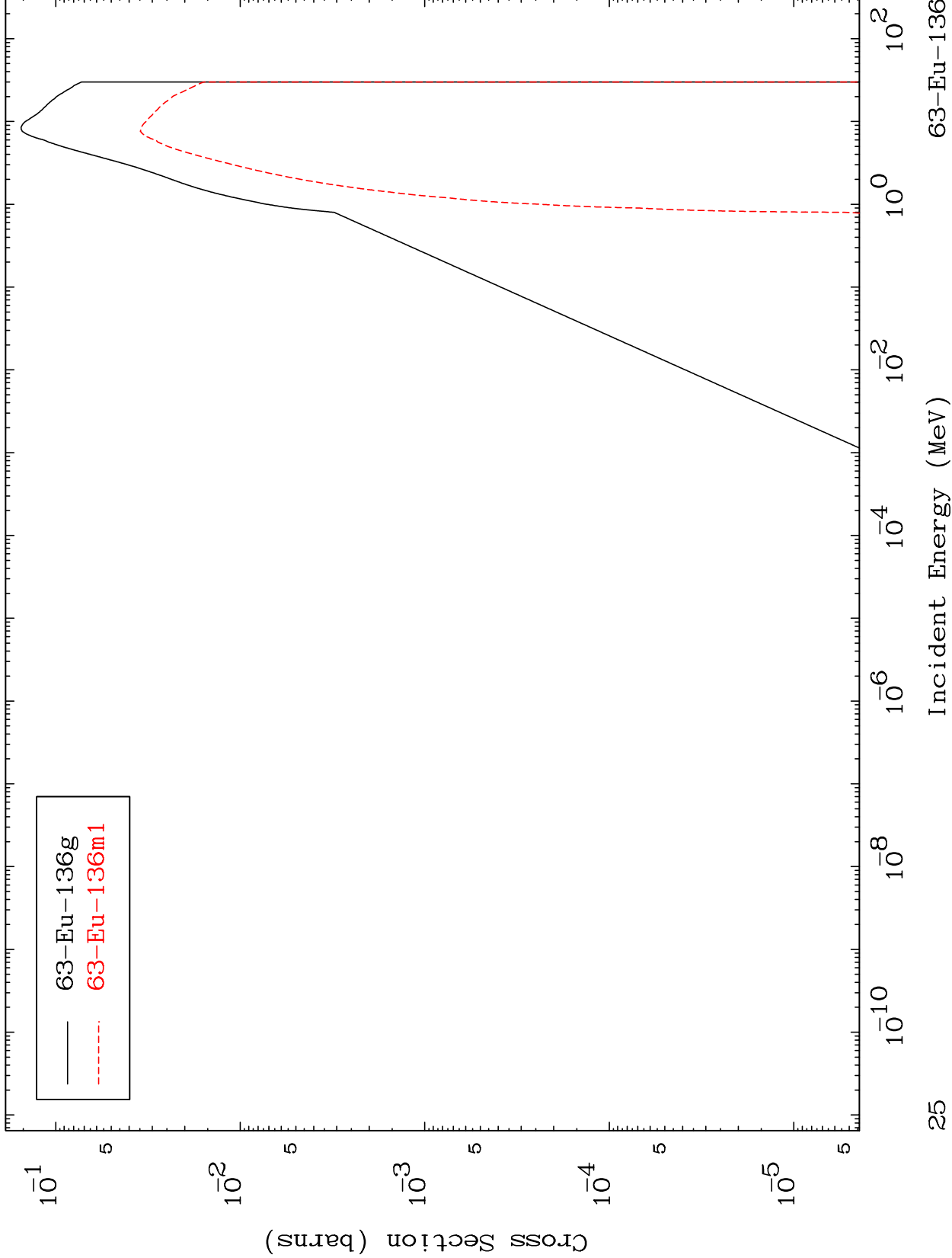




MAT 6280

Inelastic
Radionuclide Production Cross Section

⁶³-Eu-136

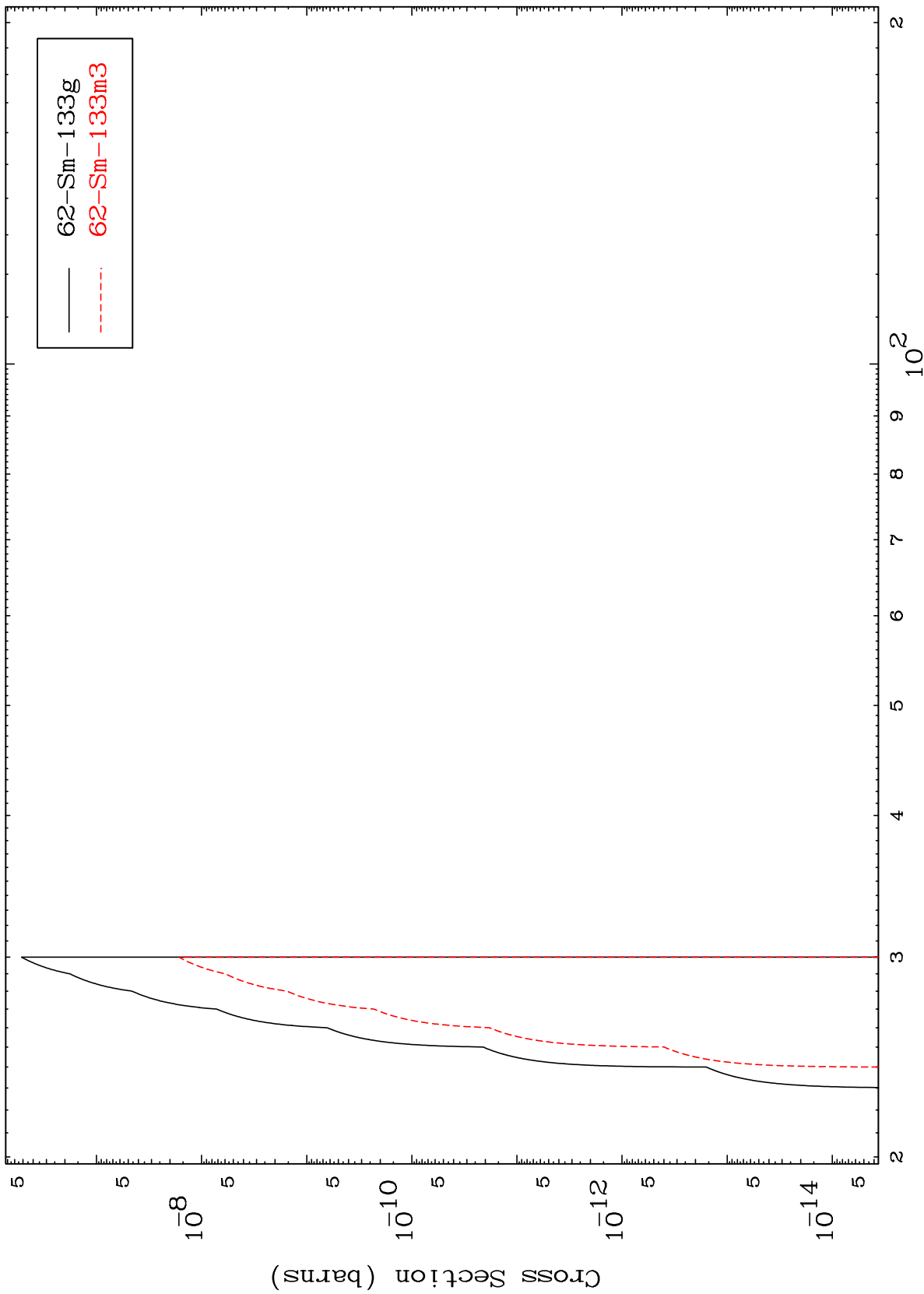


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(n,2n) d

63-Eu-136

Radionuclide Production Cross Section



26

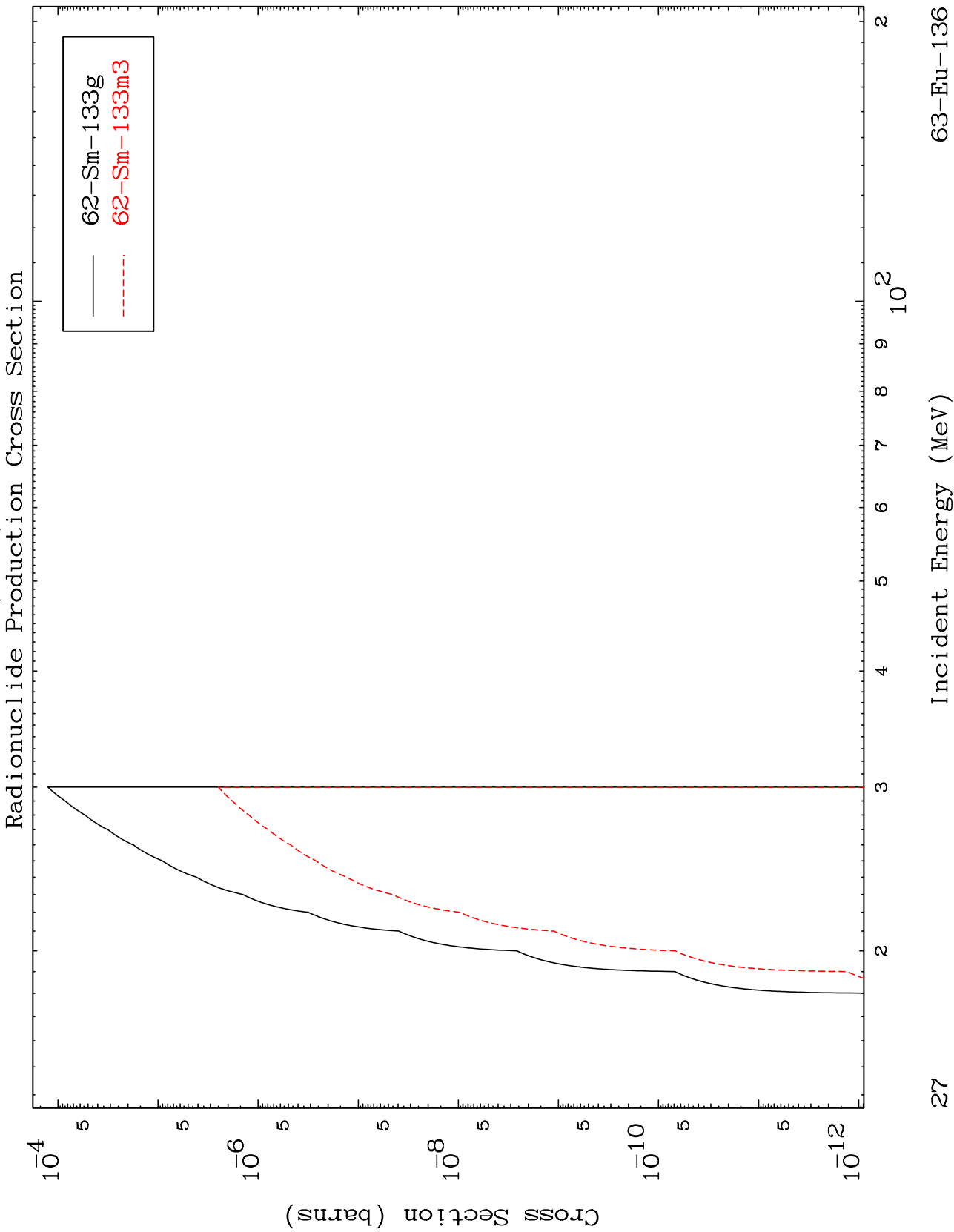
Incident Energy (MeV)

63-Eu-136

MAT 6280

(n,n') t

63-Eu-136

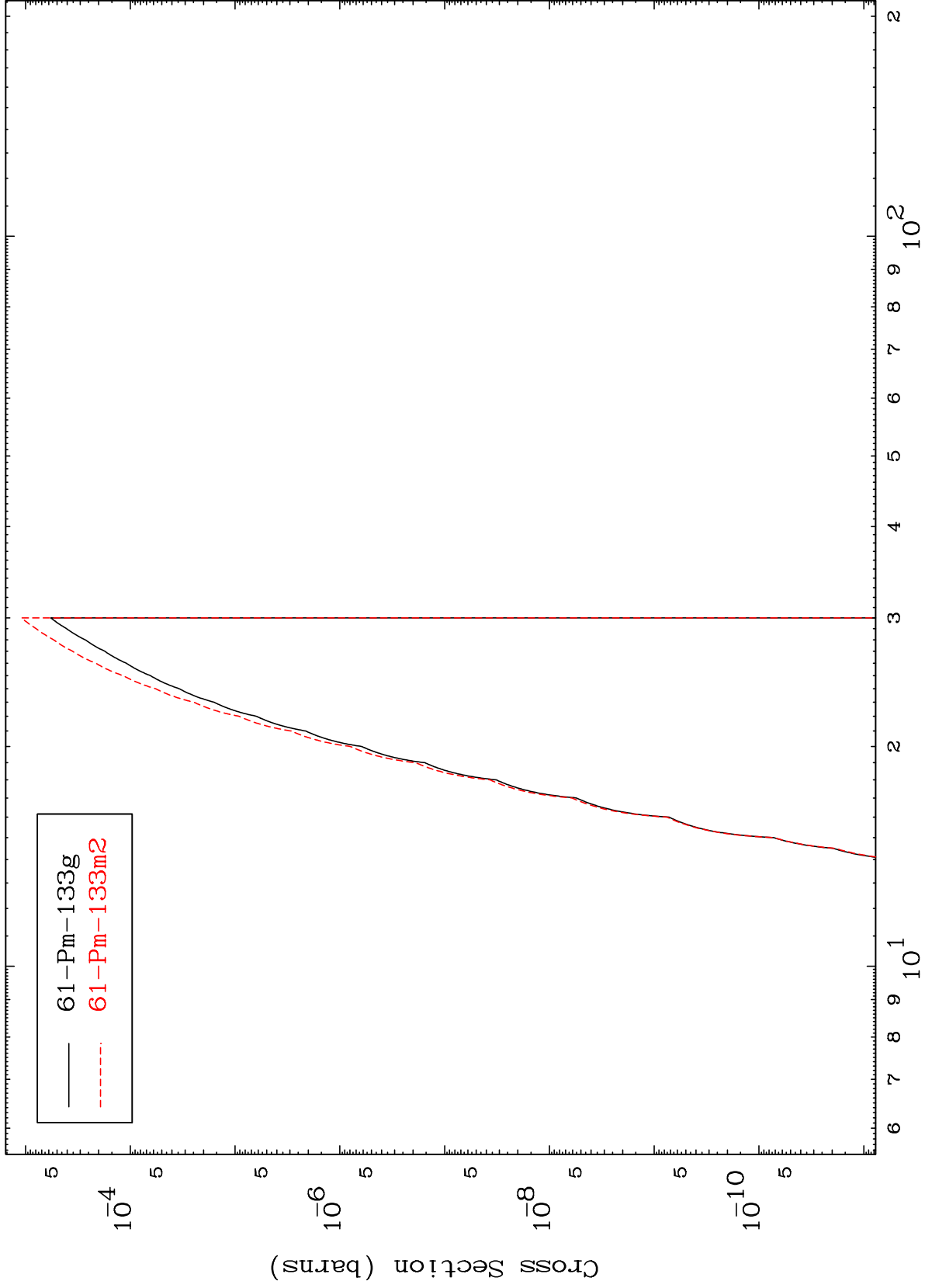


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(n,n') He-3

63-Eu-136

Radionuclide Production Cross Section

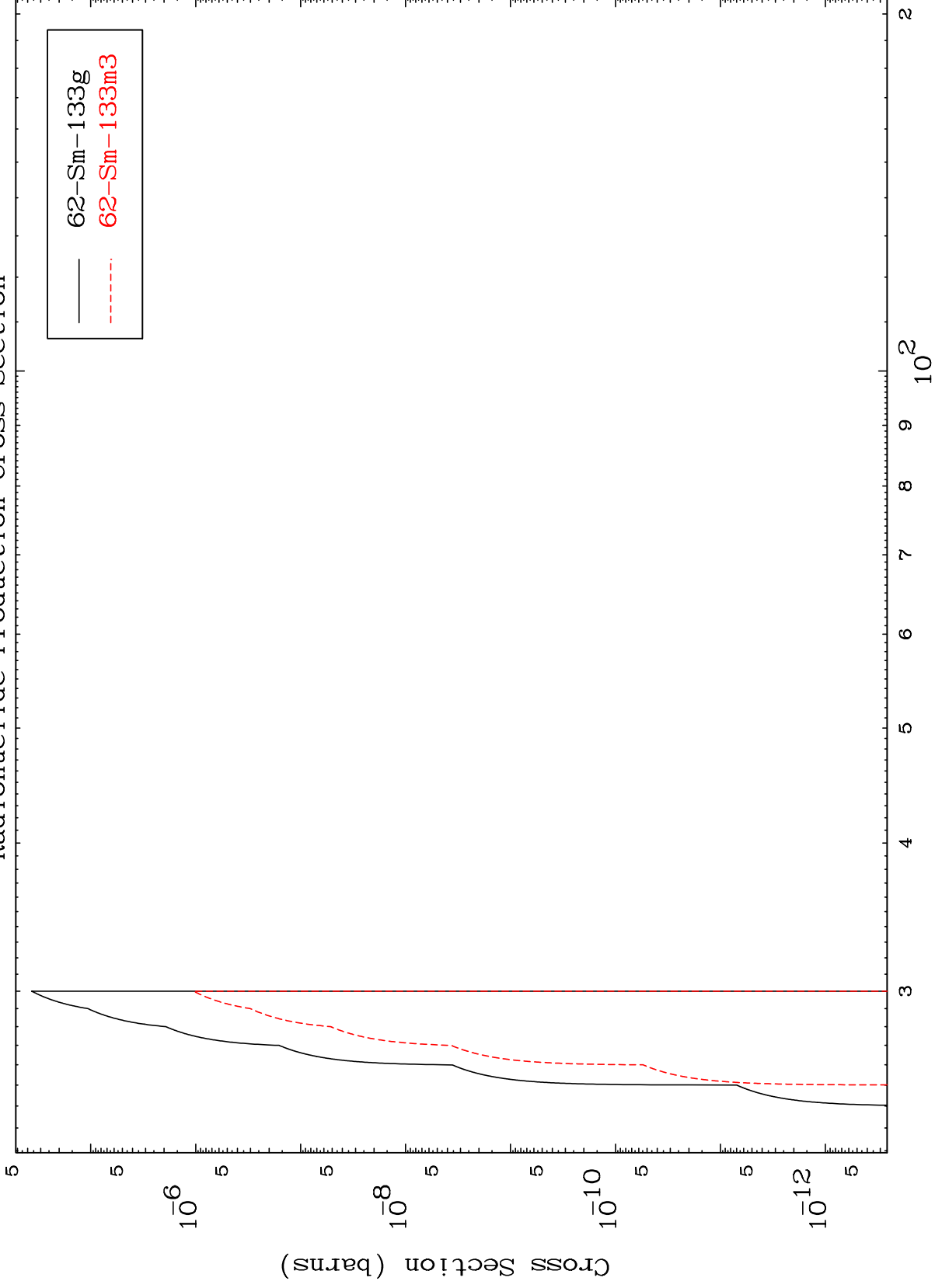


28

Incident Energy (MeV)

63-Eu-136

Radionuclide Production Cross Section

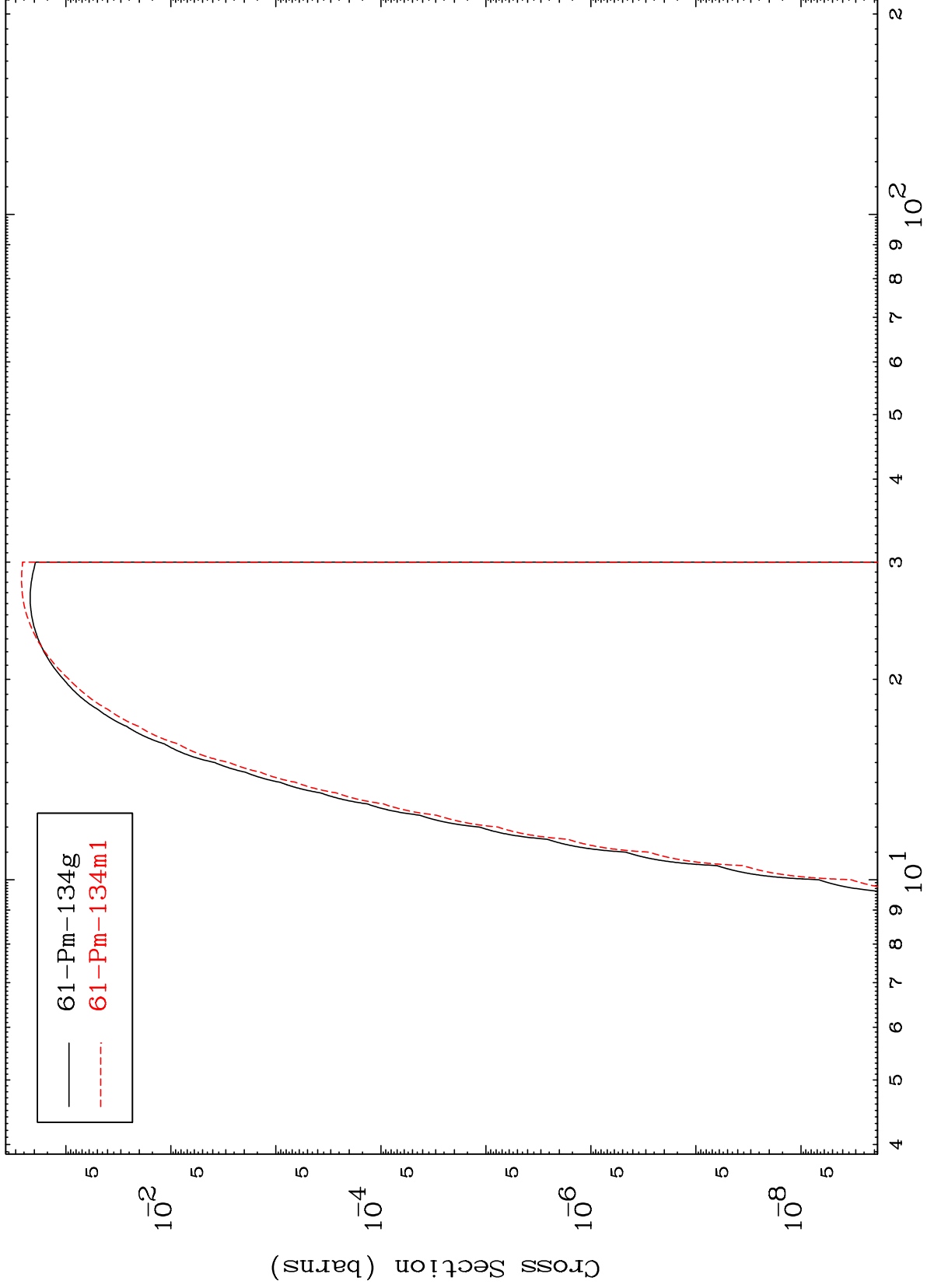


MAT 6280

(n,2n) p

63-Eu-136

Radionuclide Production Cross Section



30

Incident Energy (MeV)

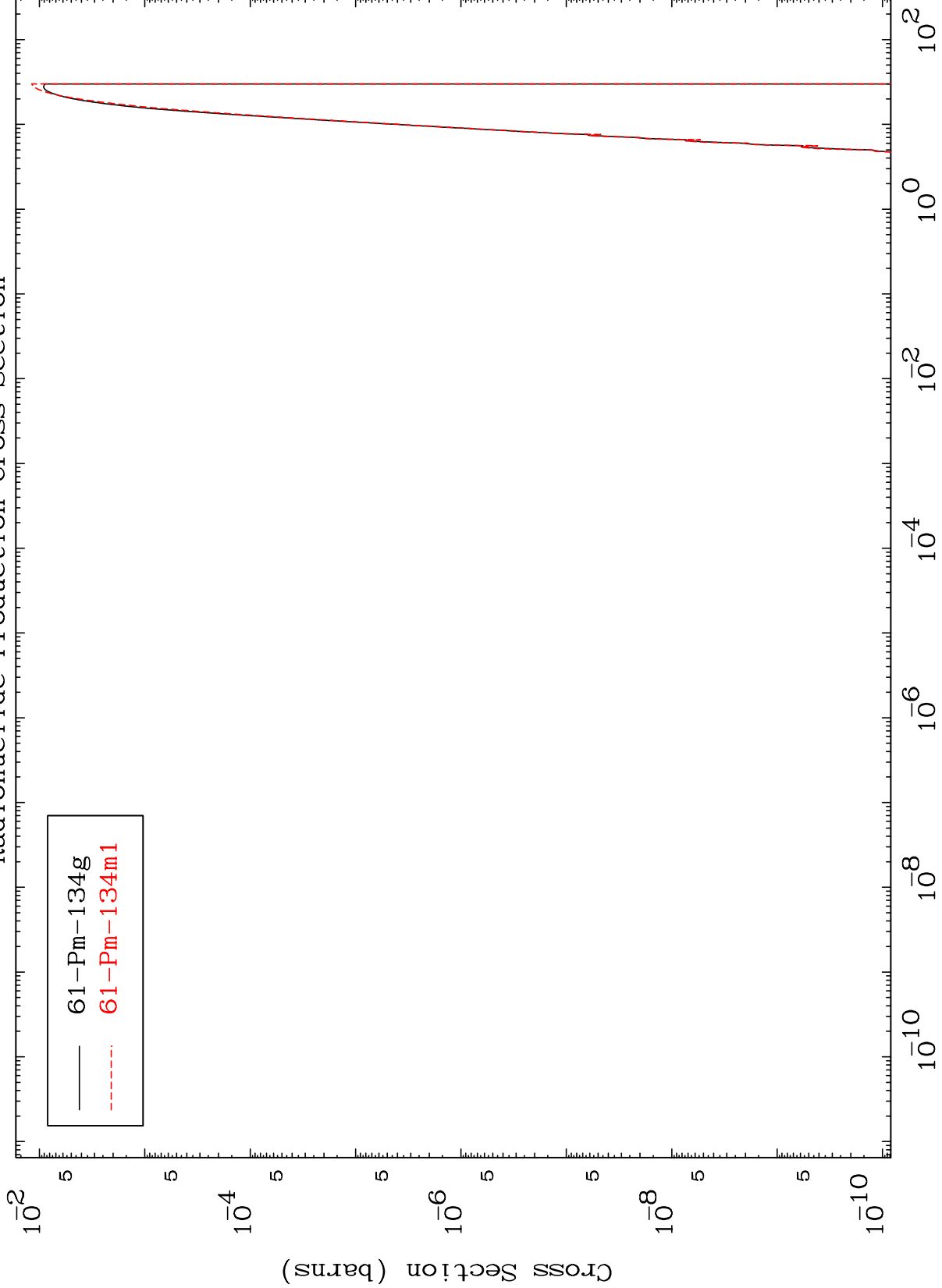
63-Eu-136

MAT 6280

(n,He-3)

63-Eu-136

Radionuclide Production Cross Section

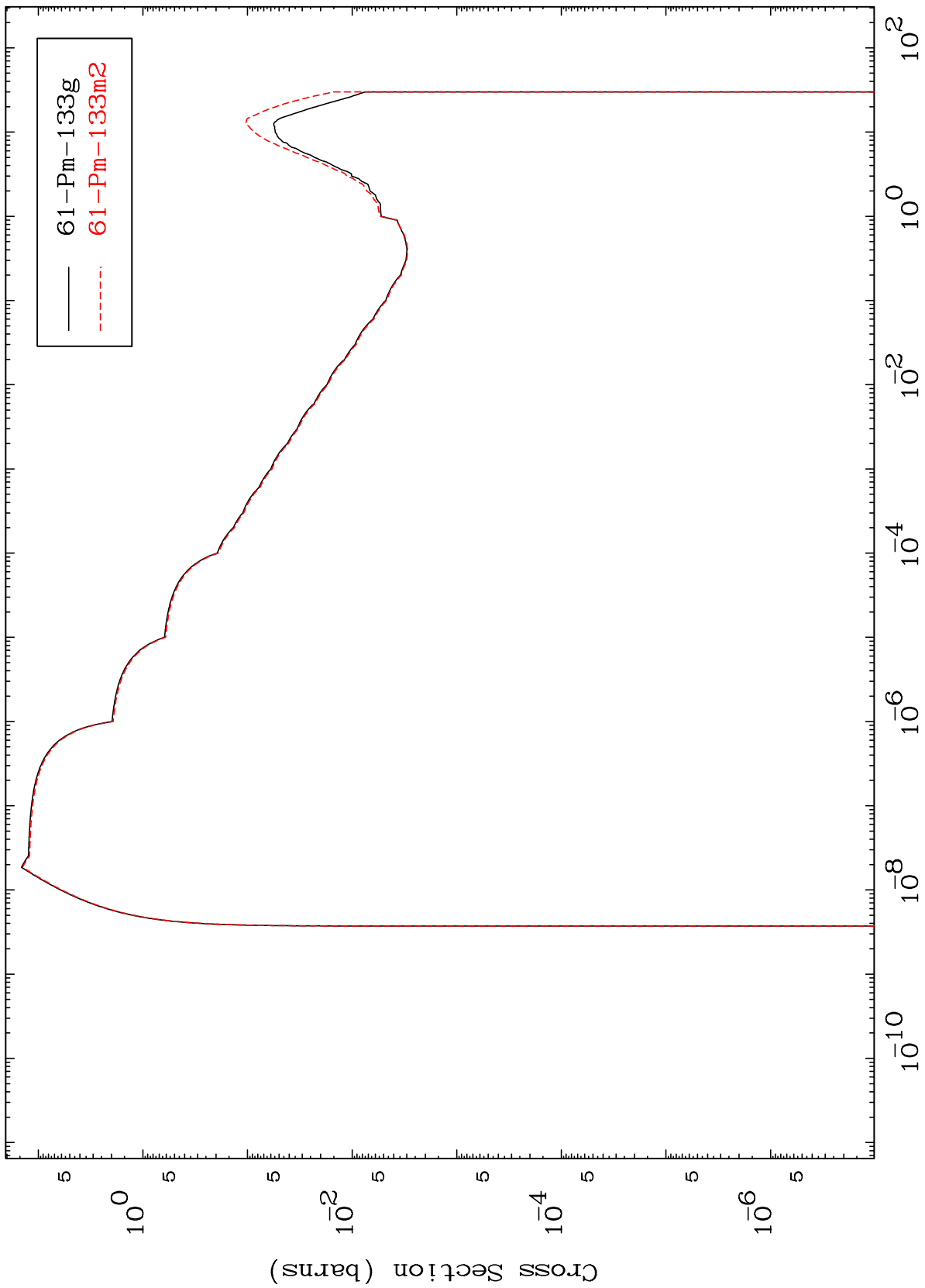


61-Pm-134g
61-Pm-134m1

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63-Eu-136

(n, α)
Radionuclide Production Cross Section



32

63-Eu-136

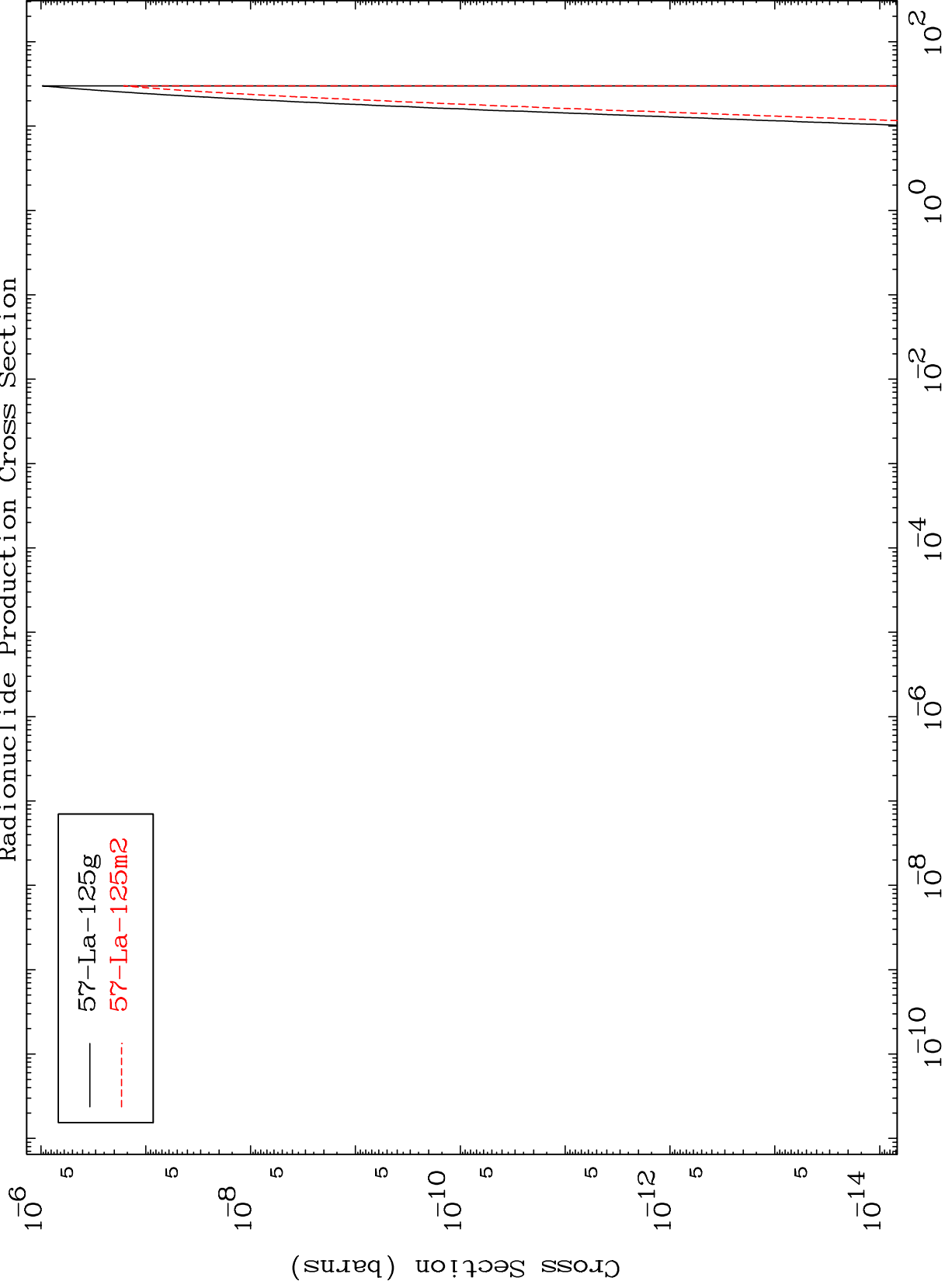
Incident Energy (MeV)

MAT 6280

(n, 3α)

63-Eu-136

Radionuclide Production Cross Section



33

Incident Energy (MeV)

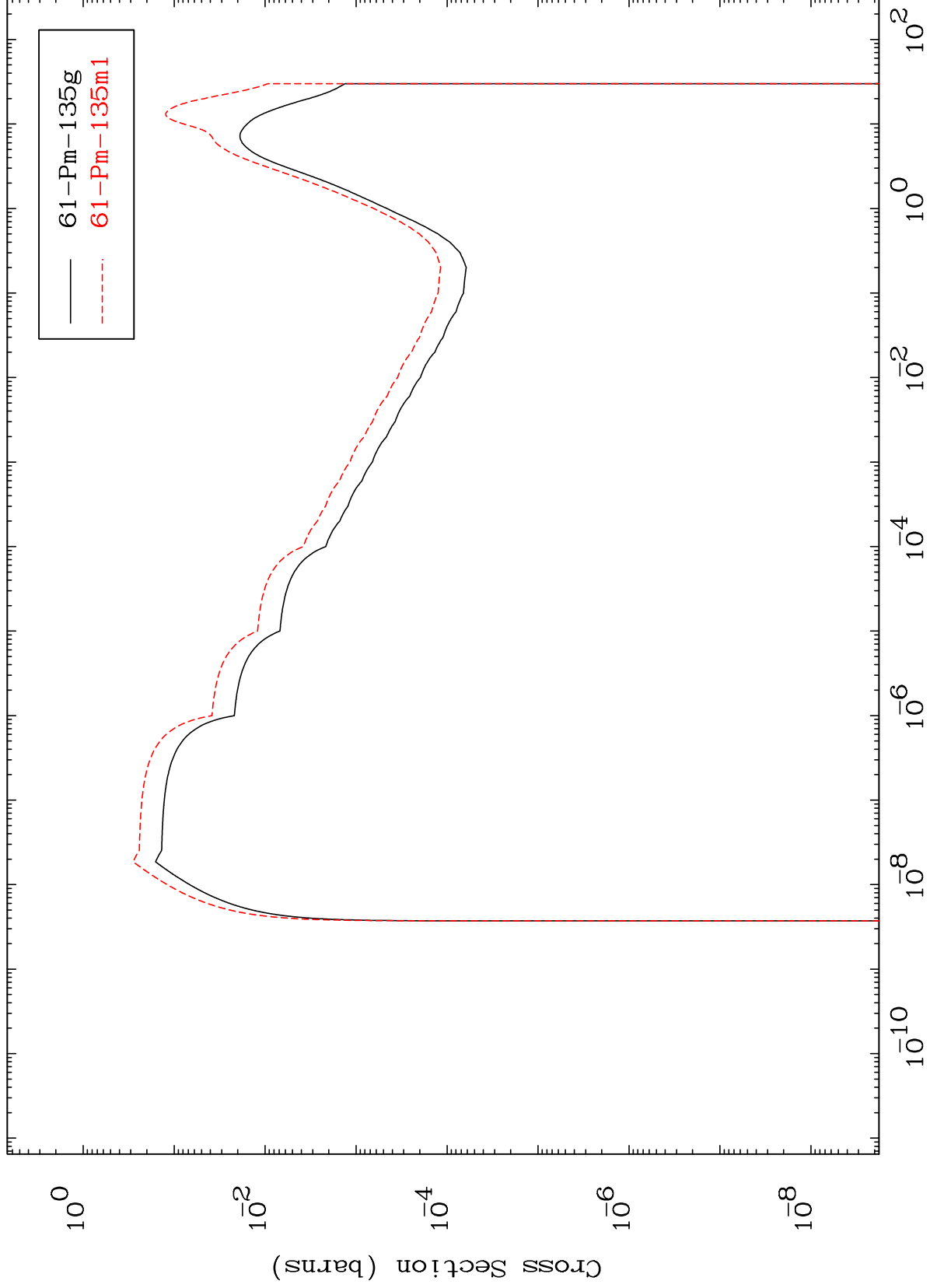
63-Eu-136

MAT 6280

(n,2p)

63-Eu-136

Radionuclide Production Cross Section



34

Incident Energy (MeV)

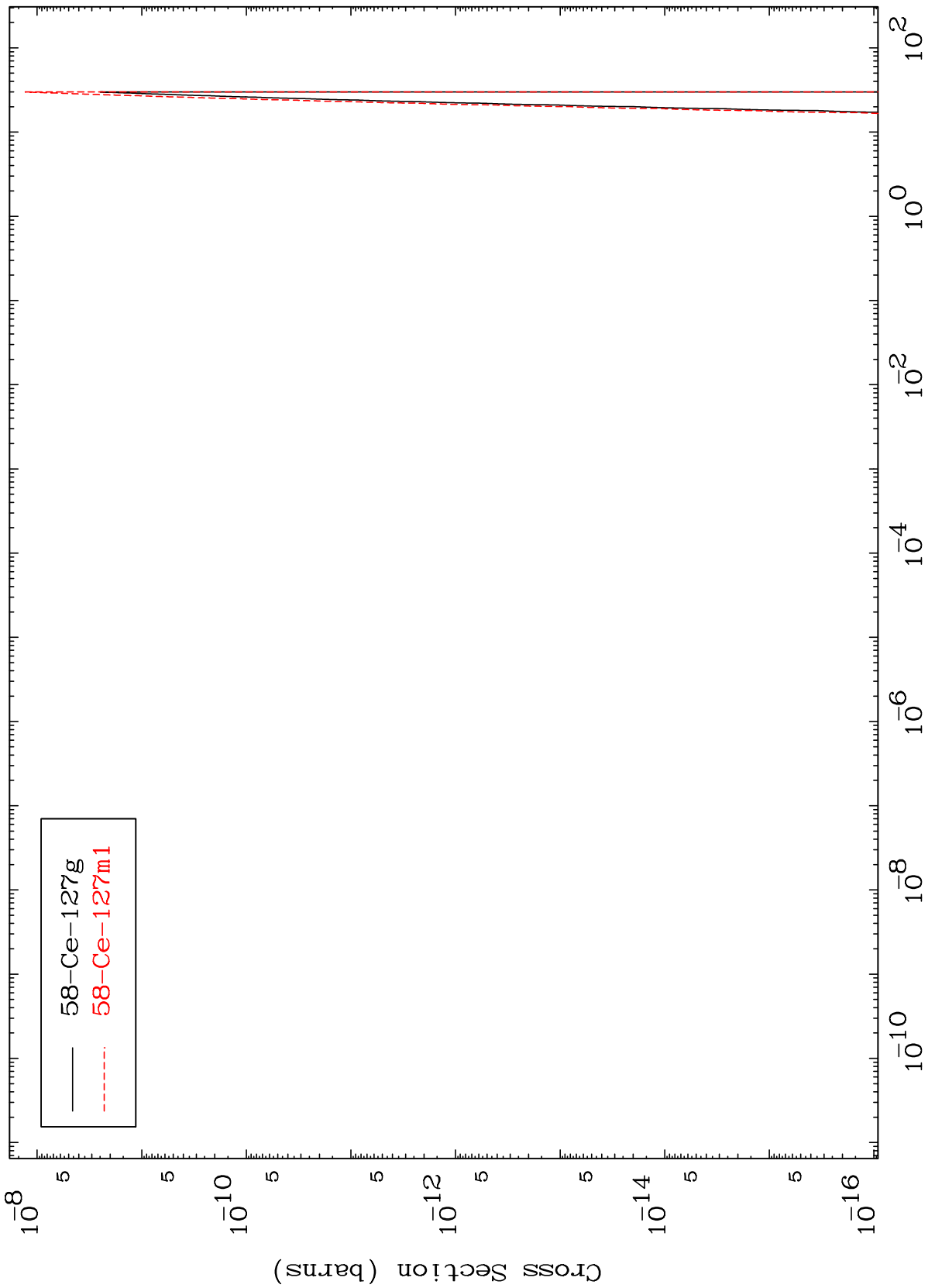
63-Eu-136

MAT 6280

(n,d) 2 α

63-Eu-136

Radionuclide Production Cross Section



35

Incident Energy (MeV)

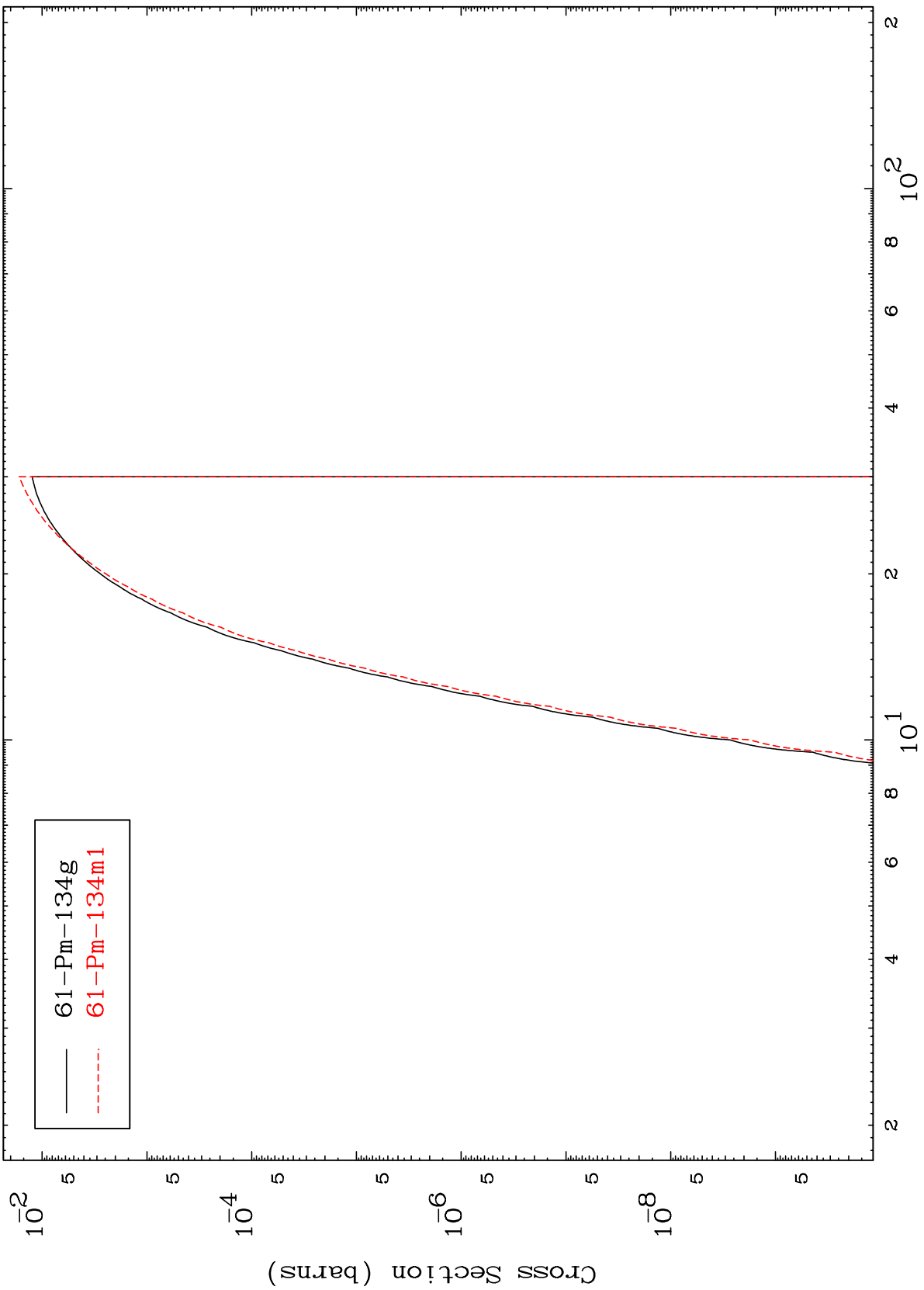
63-Eu-136

MAT 6280

(n,p) d

63-Eu-136

Radionuclide Production Cross Section



36

Incident Energy (MeV)

63-Eu-136

MAT 6280

(n,p) t

63-Eu-136

