

Program EVALPLOT
(Version 2021-1)

by

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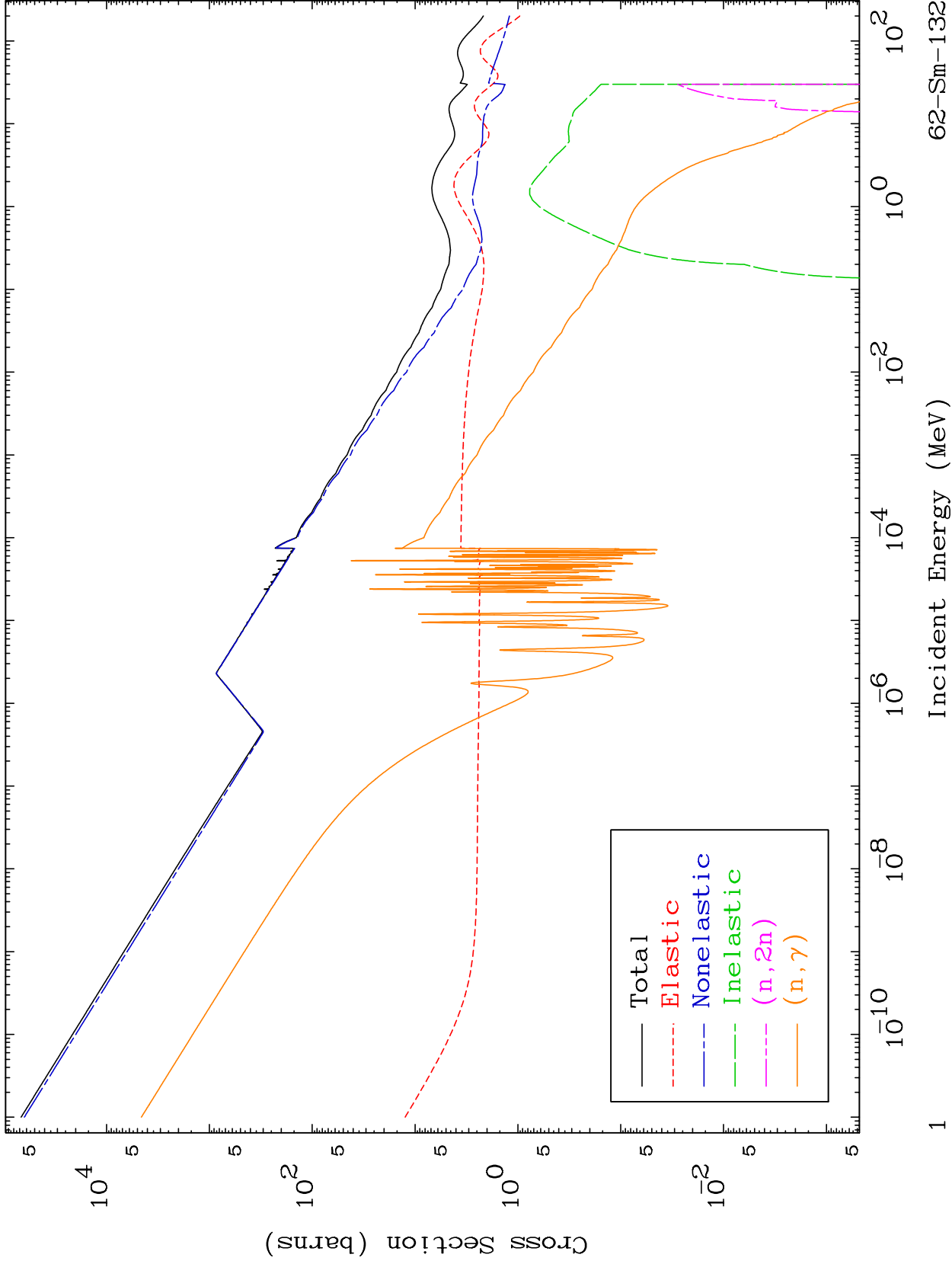
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6189

Neutron Major
293 Kelvin Cross Sections

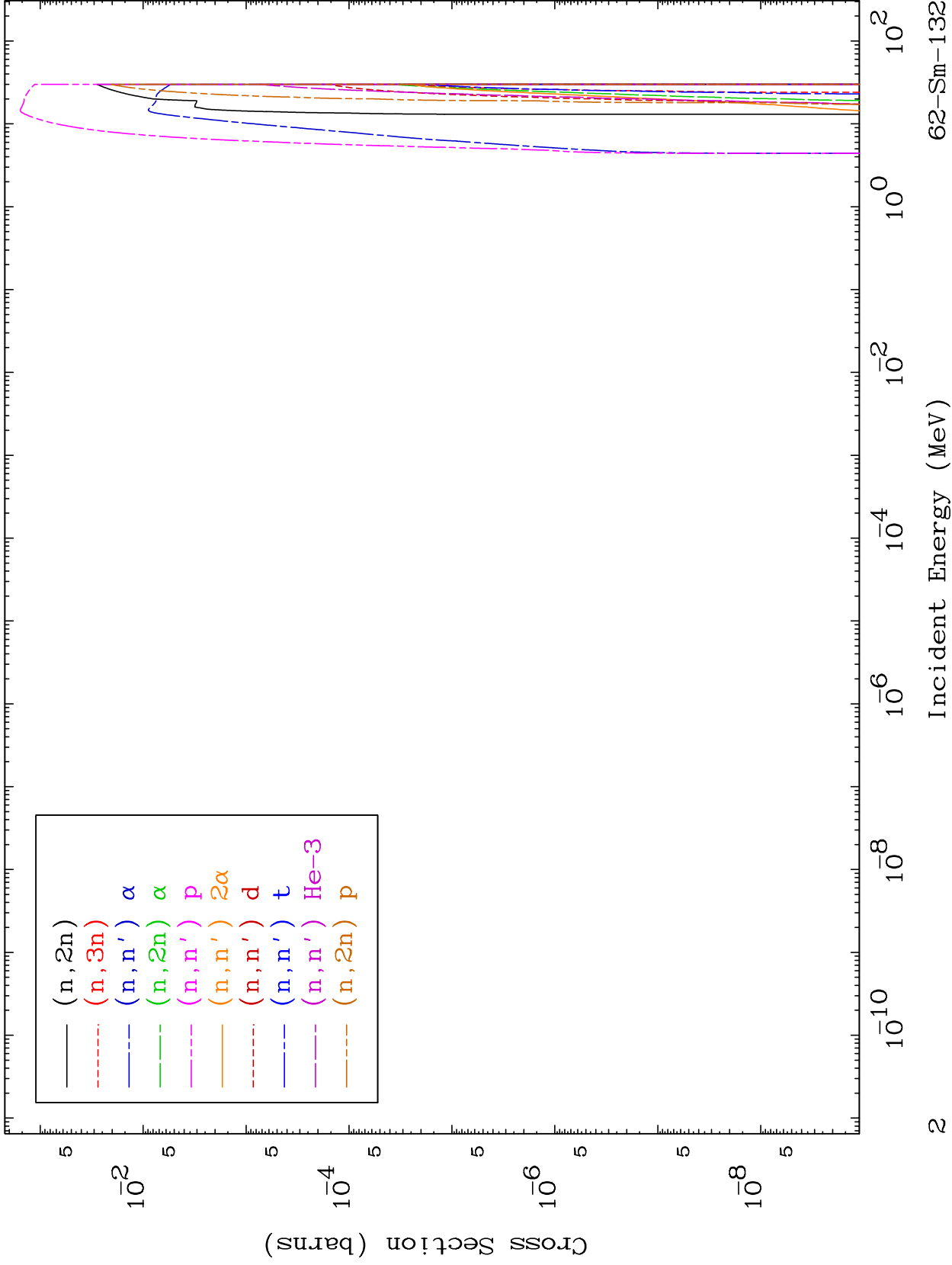
62-Sm-132



MAT 6189

Neutron Absorption
293 Kelvin Cross Sections

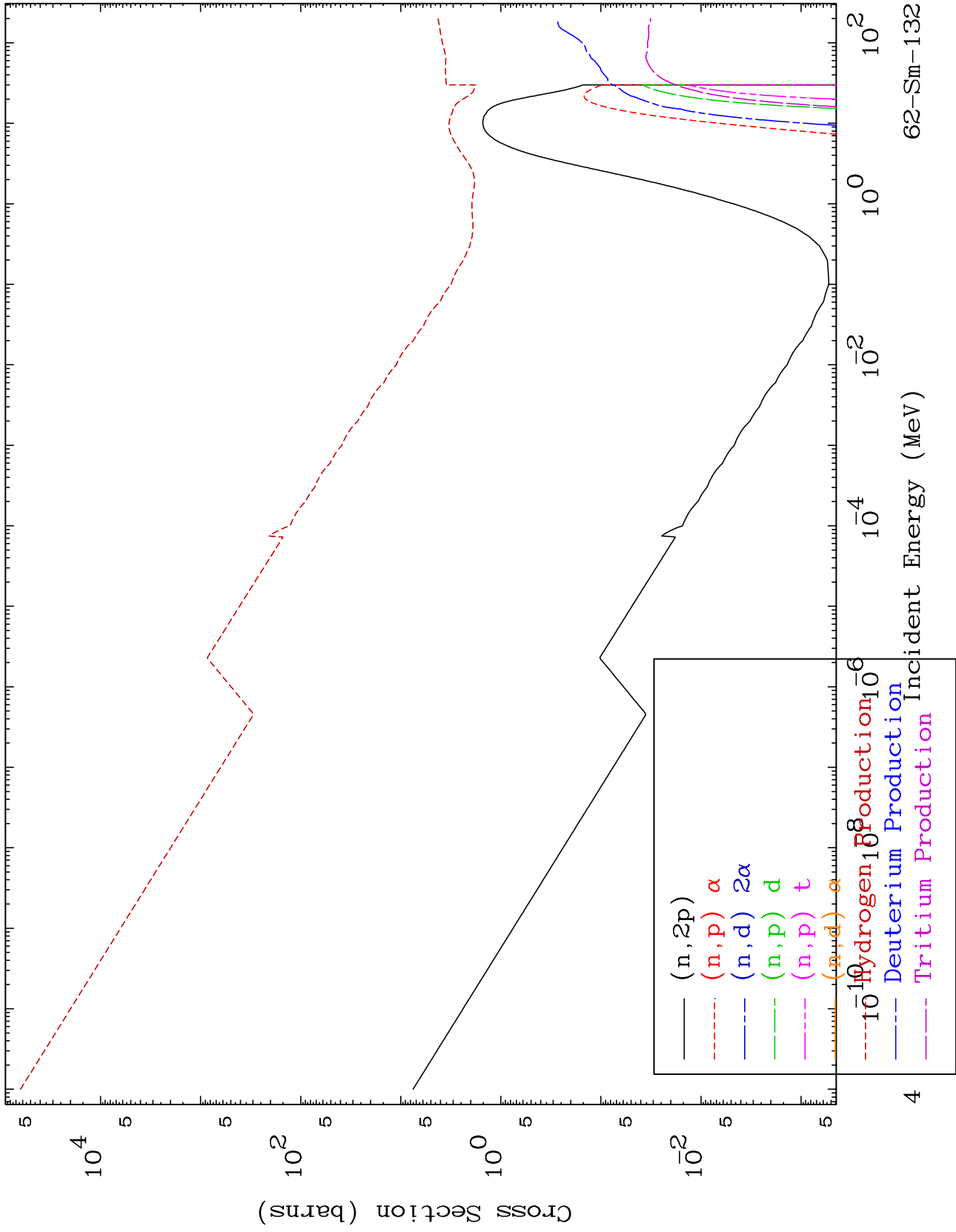
62-Sm-132



MAT 6189

Neutron Absorption
293 Kelvin Cross Sections

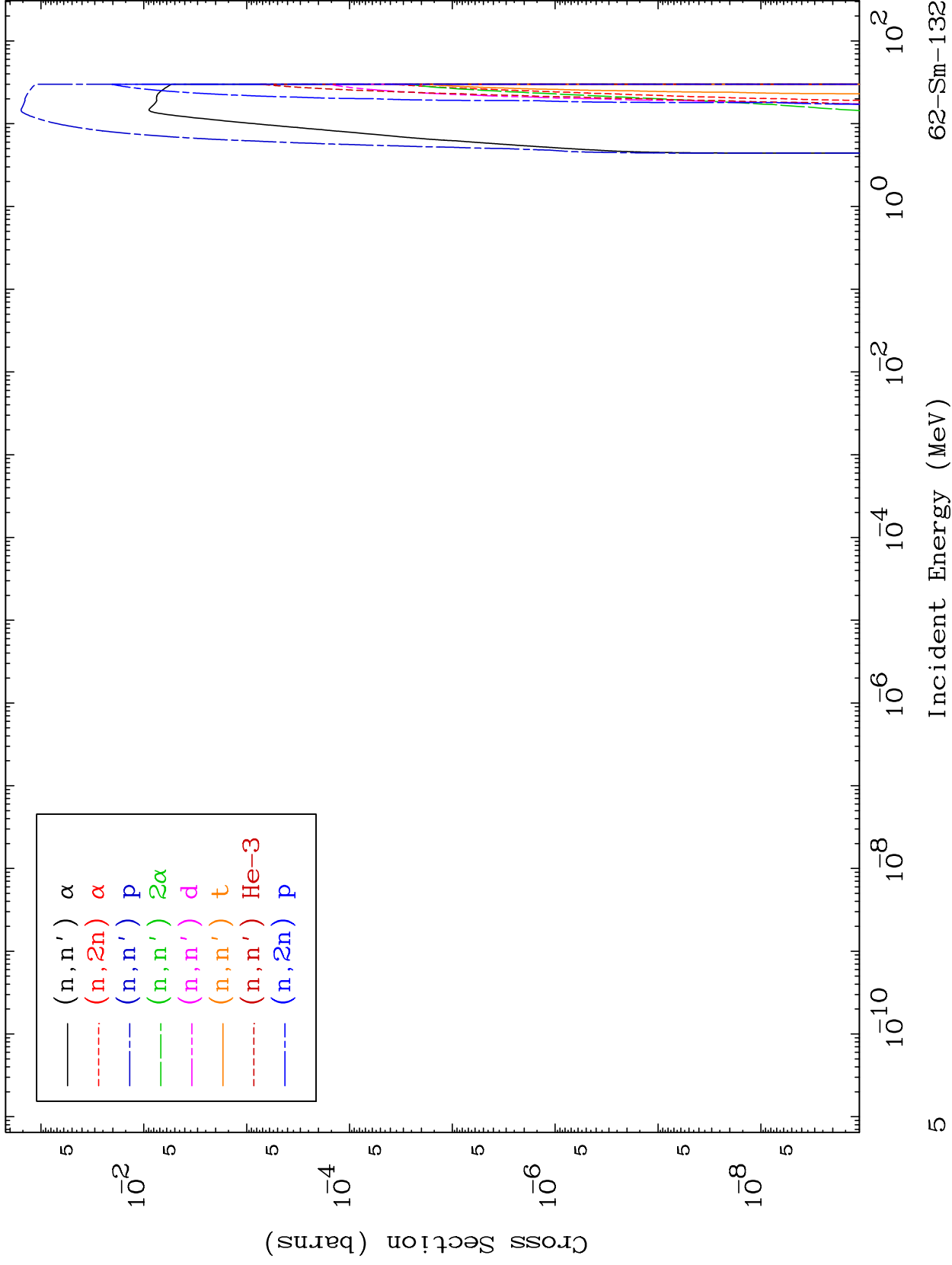
62-Sm-132

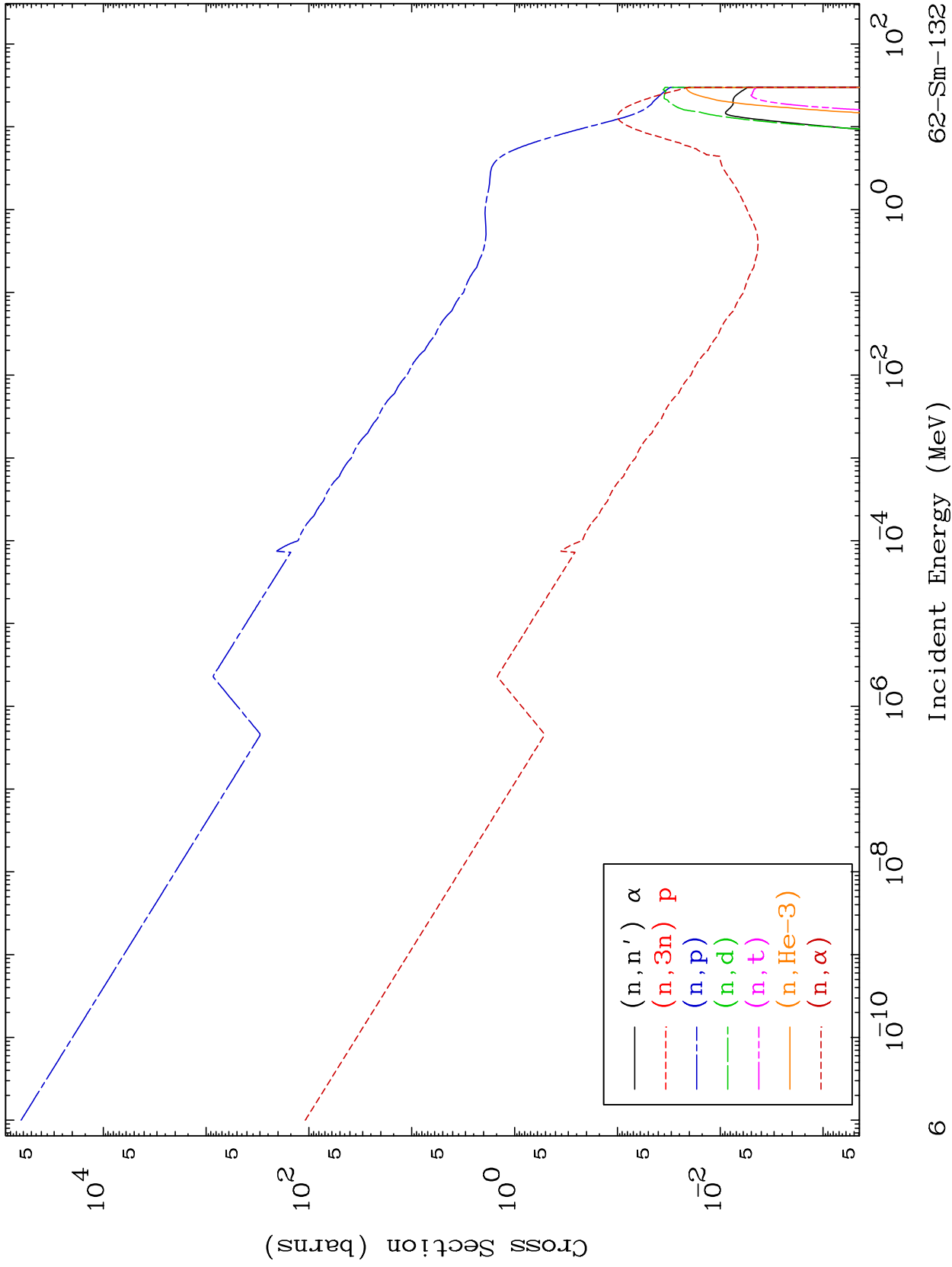


MAT 6189

Charged Particle
293 Kelvin Cross Sections

62-Sm-132

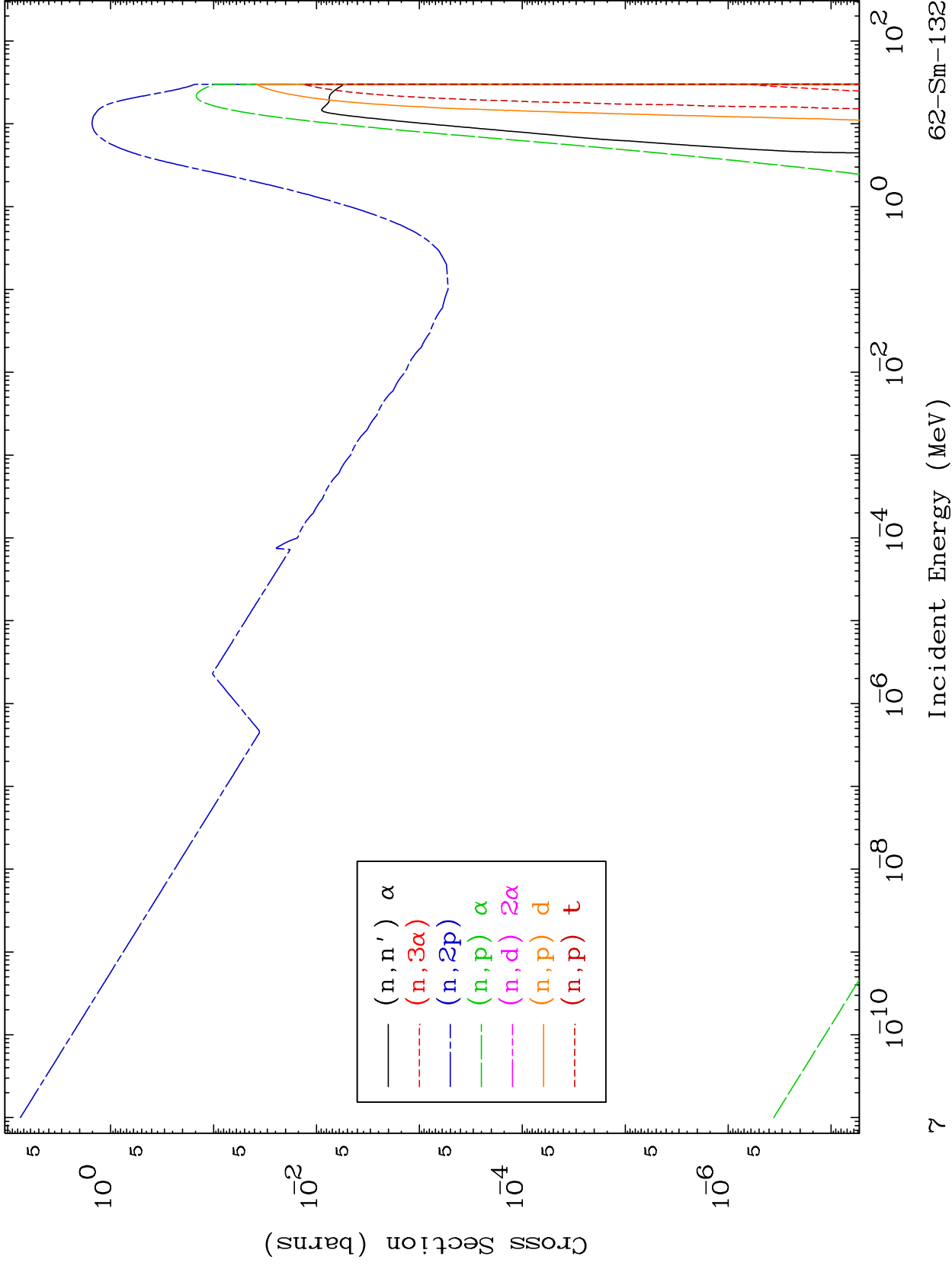


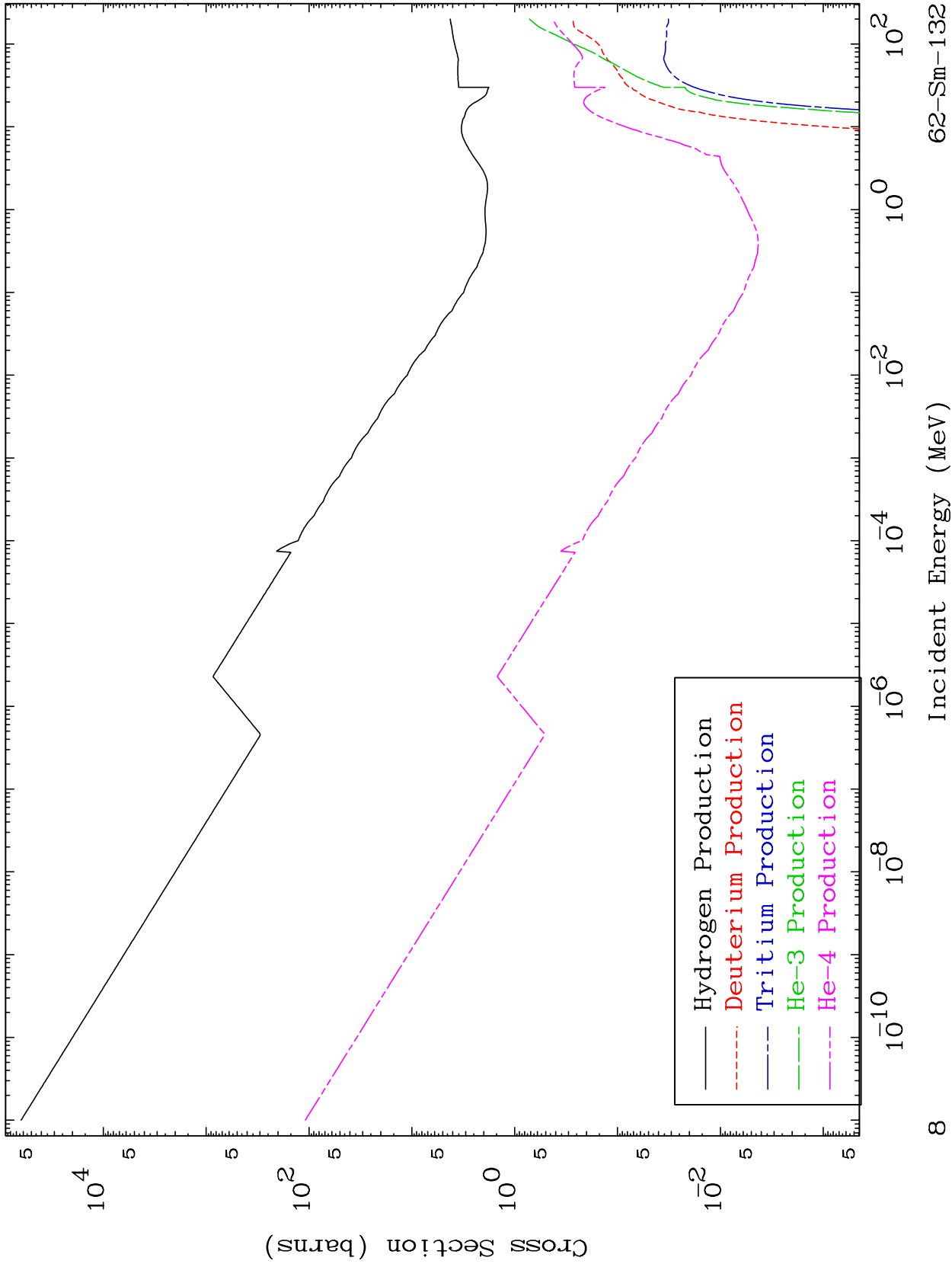


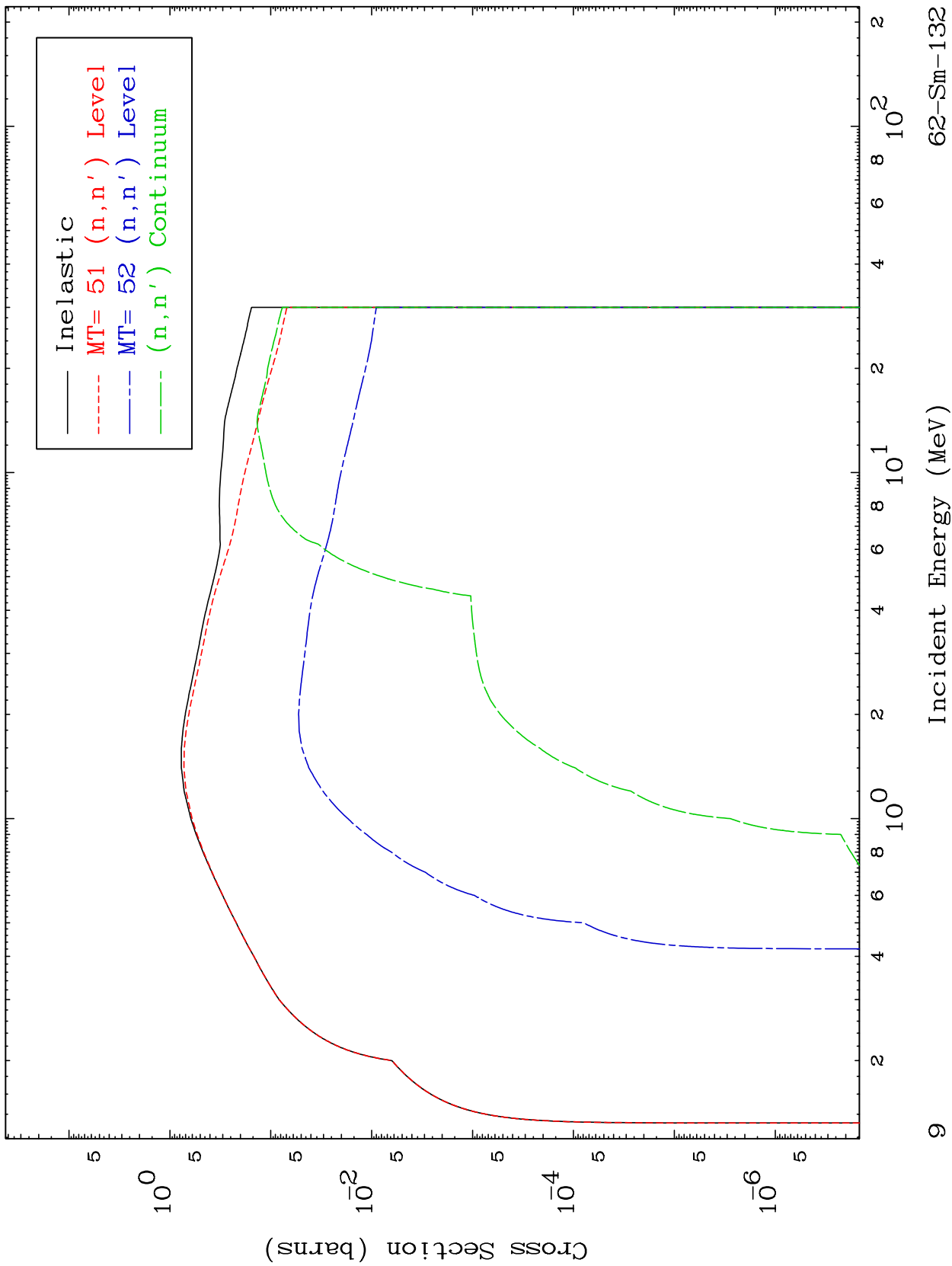
MAT 6189

Charged Particle
293 Kelvin Cross Sections

62-Sm-132



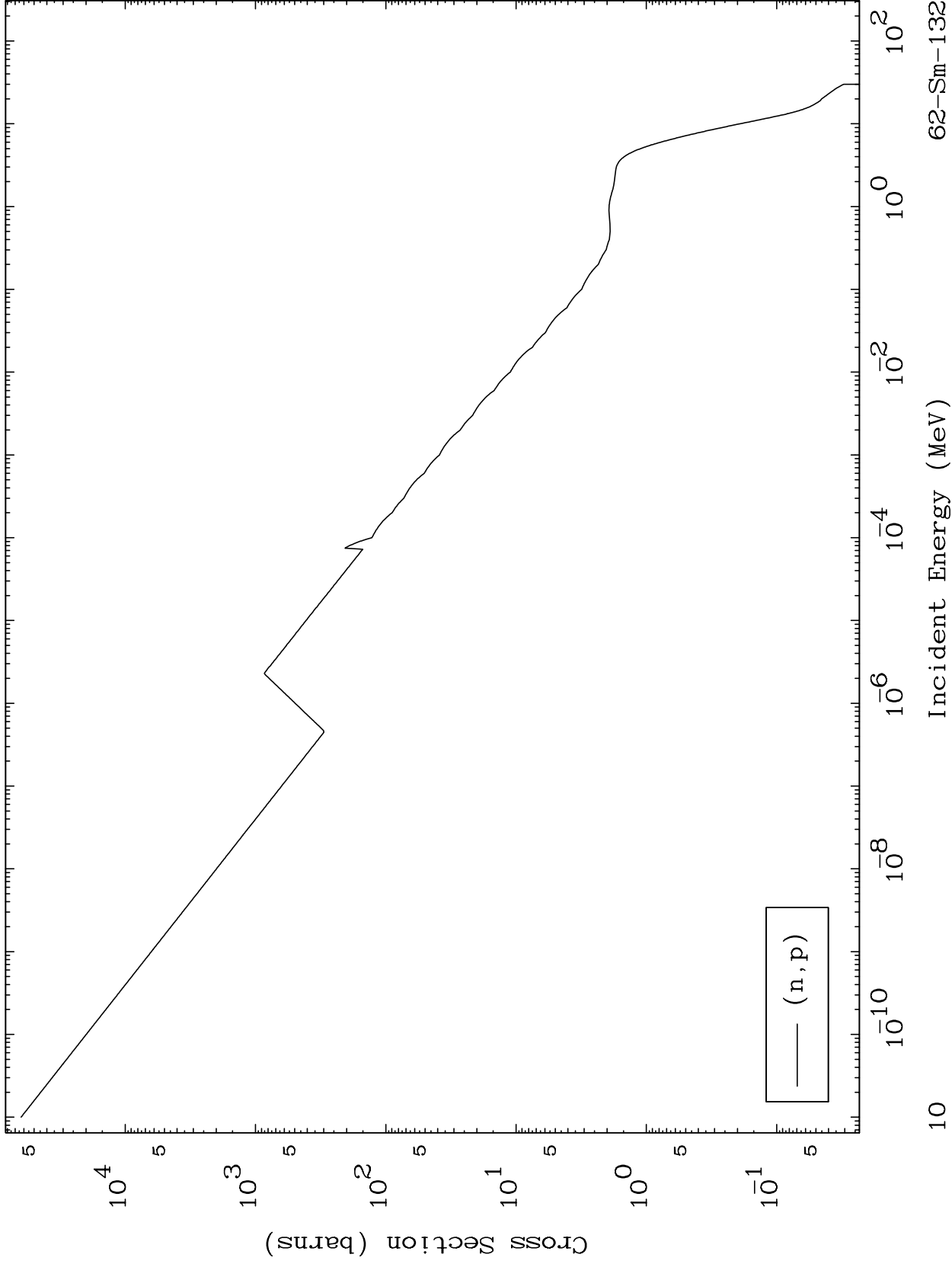




MAT 6189

(n,p) Levels
293 Kelvin Cross Sections

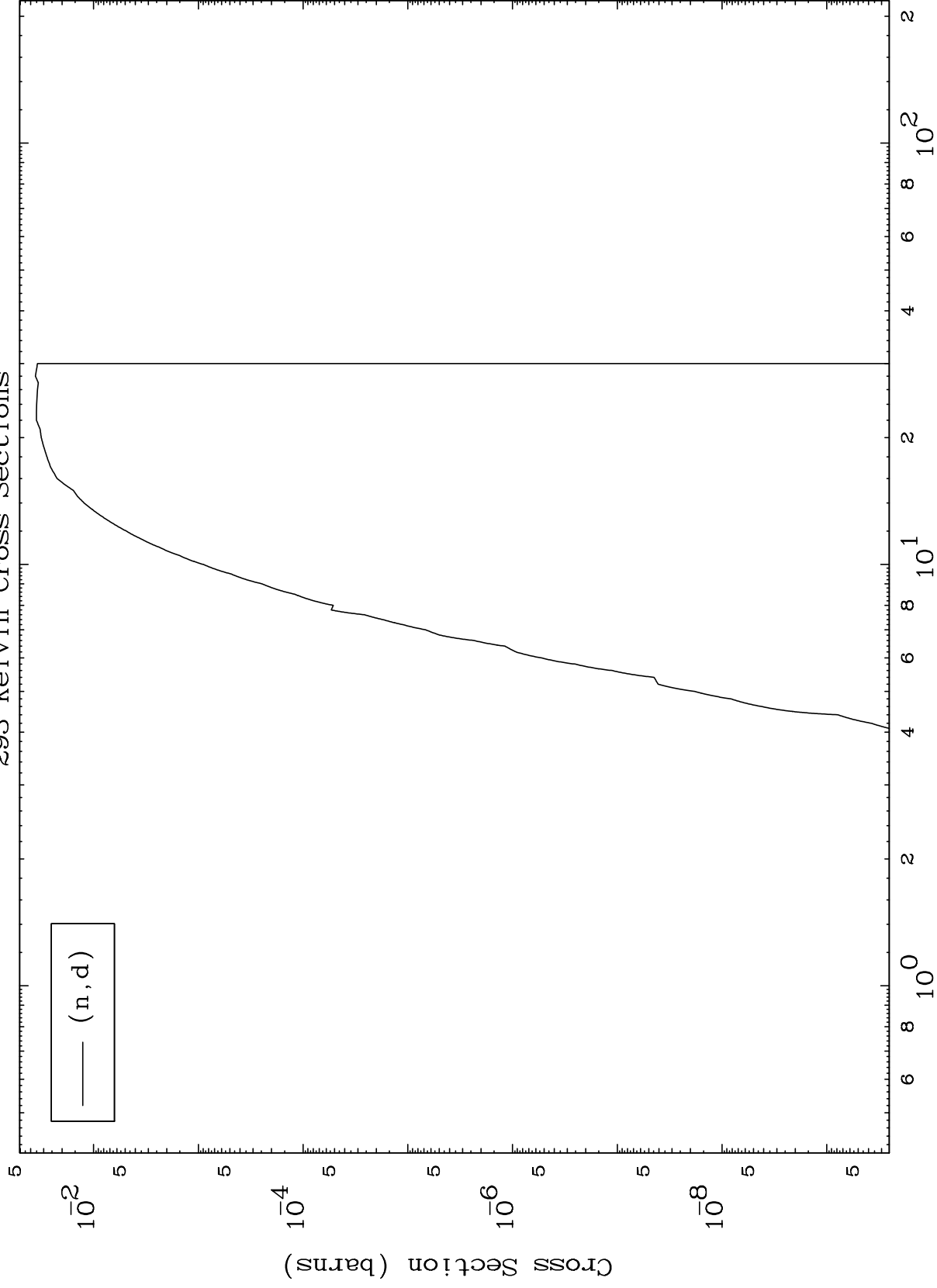
62-Sm-132



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(n,d) Levels
293 Kelvin Cross Sections

62-Sm-132



11

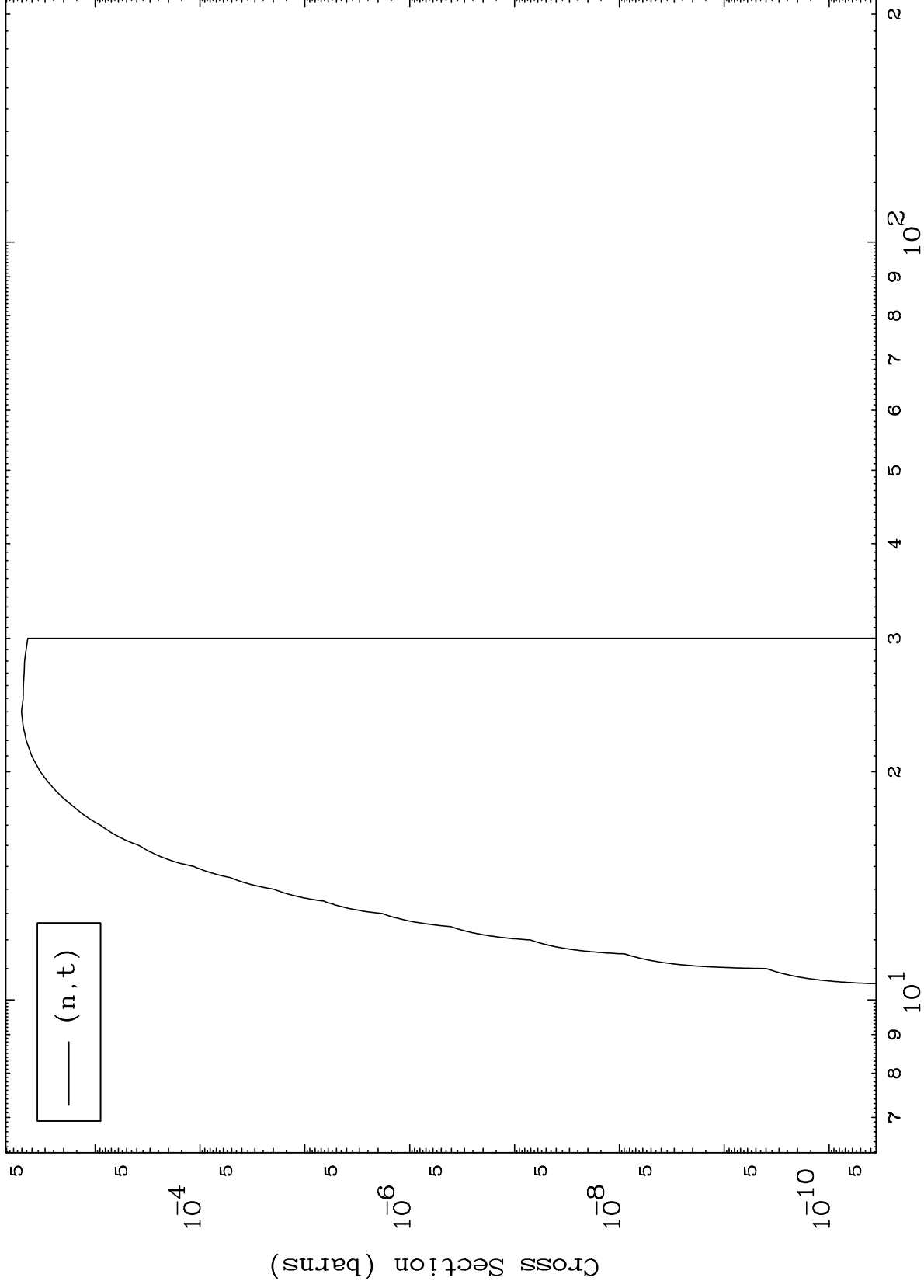
Incident Energy (MeV)

62-Sm-132

MAT 6189

(n,t) Levels
293 Kelvin Cross Sections

62-Sm-132



12

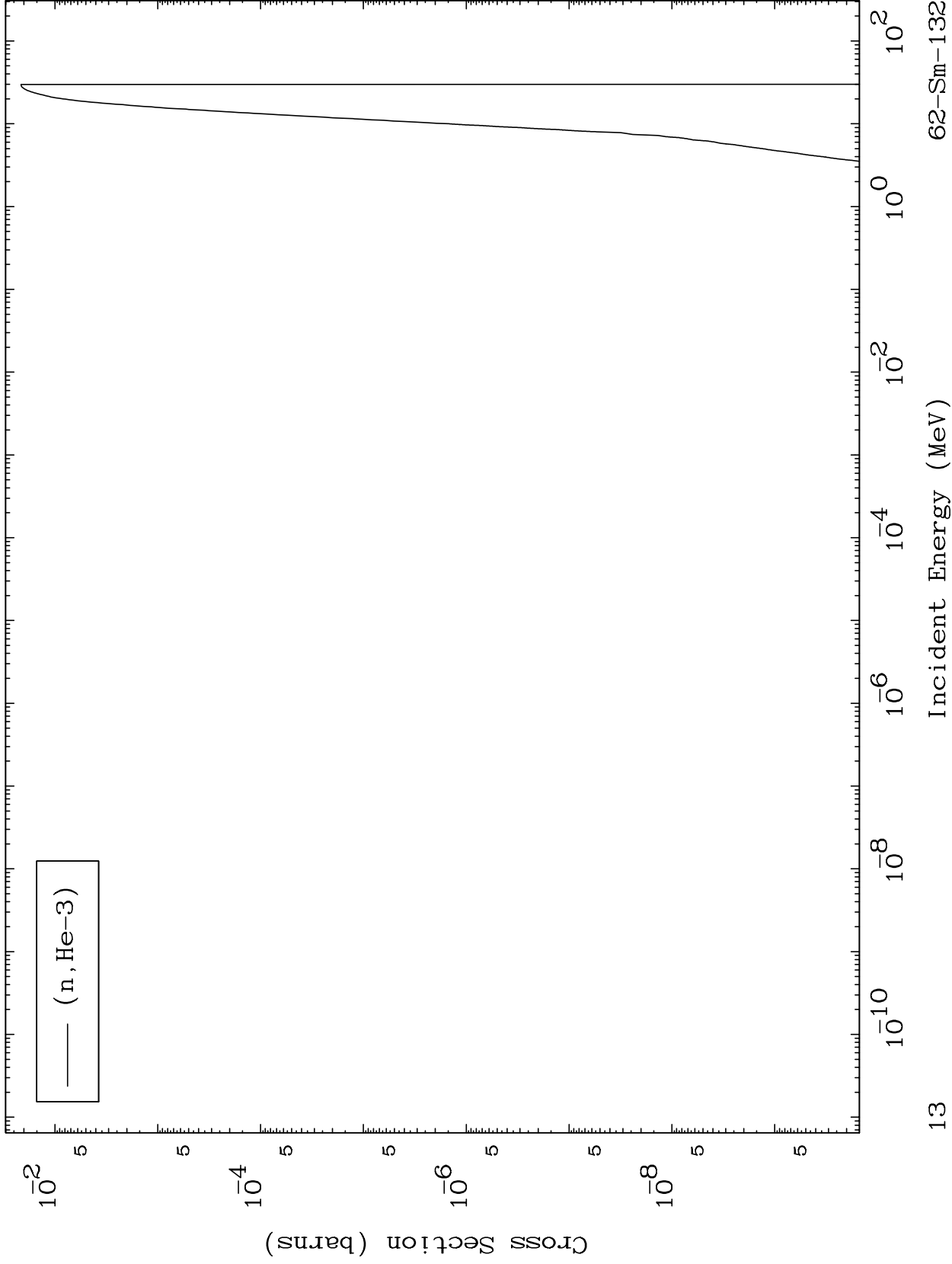
Incident Energy (MeV)

62-Sm-132

MAT 6189

(n,He3) Levels
293 Kelvin Cross Sections

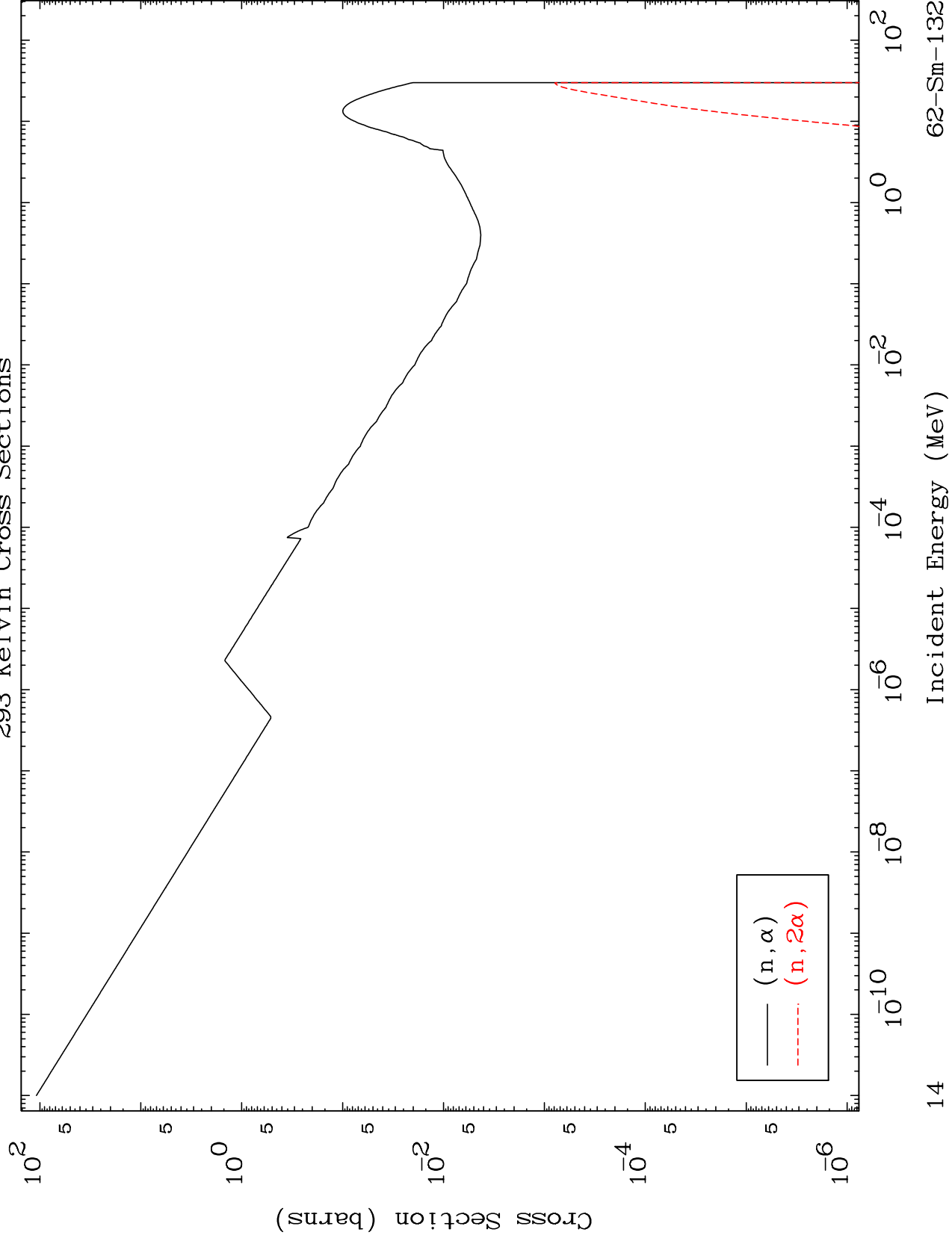
62-Sm-132



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(n, α) Levels
293 Kelvin Cross Sections

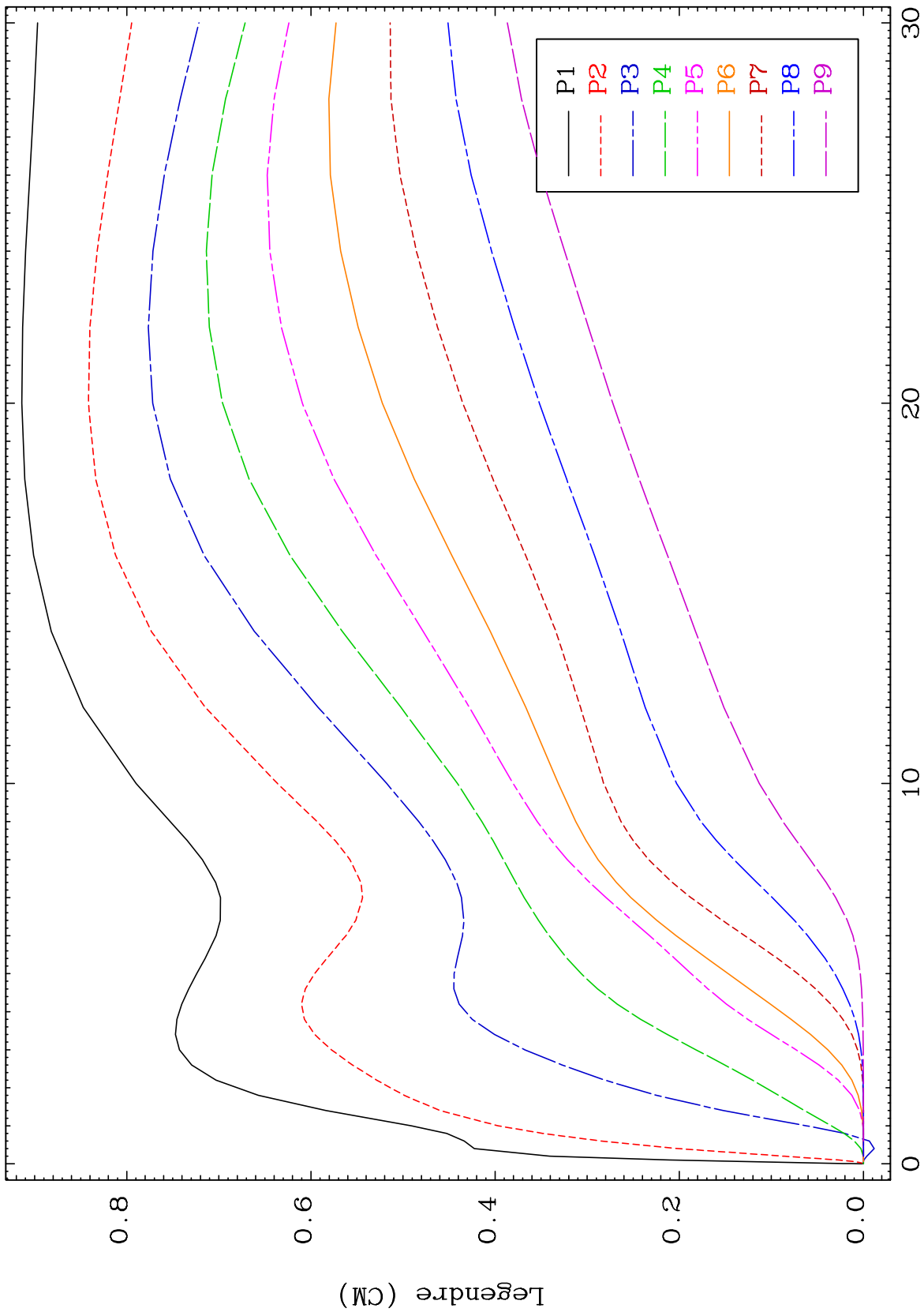
62-Sm-132



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62-Sm-132

Elastic Legendre Coefficients



62-Sm-132

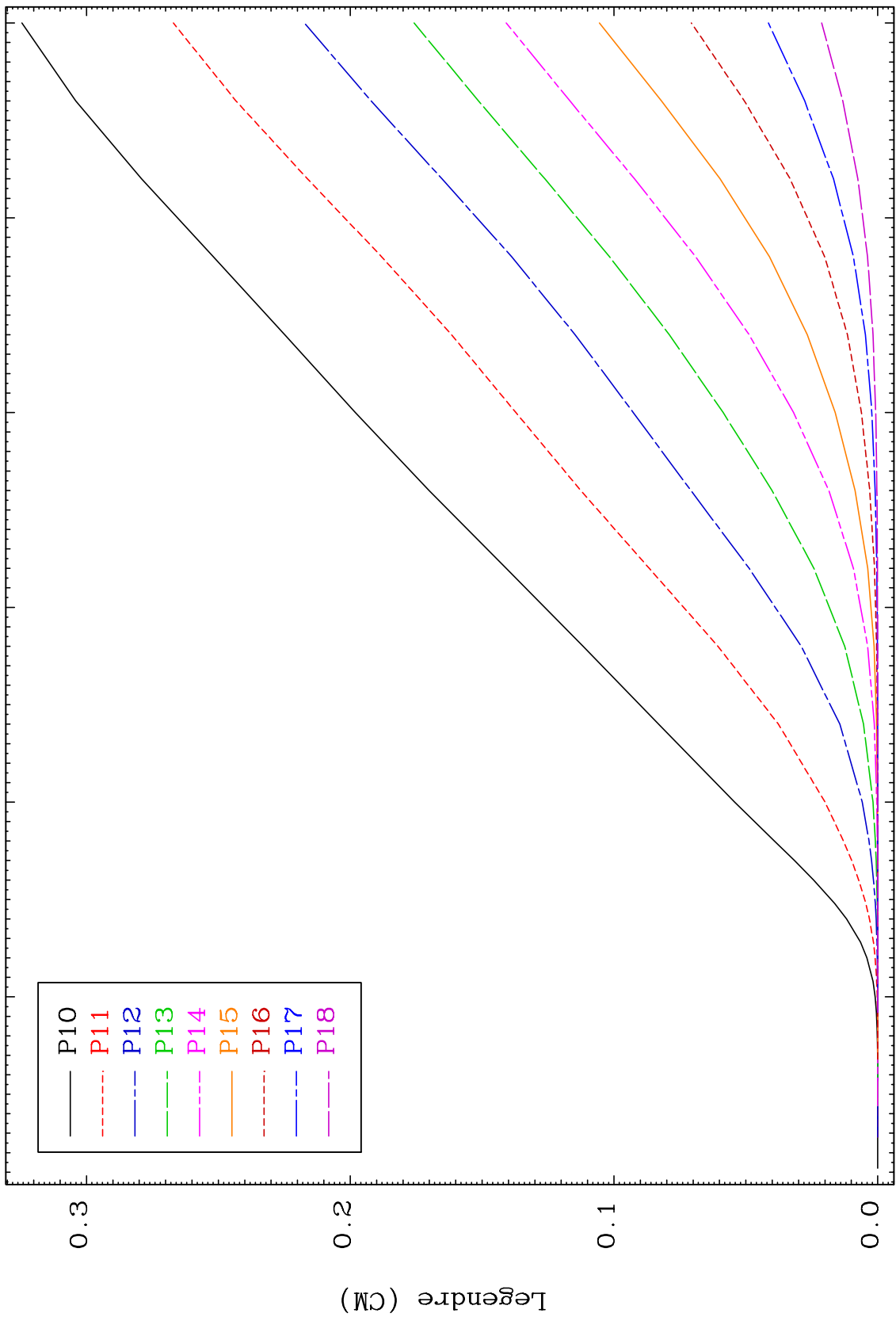
Incident Energy (MeV)

15

MAT 6189

Elastic Legendre Coefficients

62-Sm-132



16

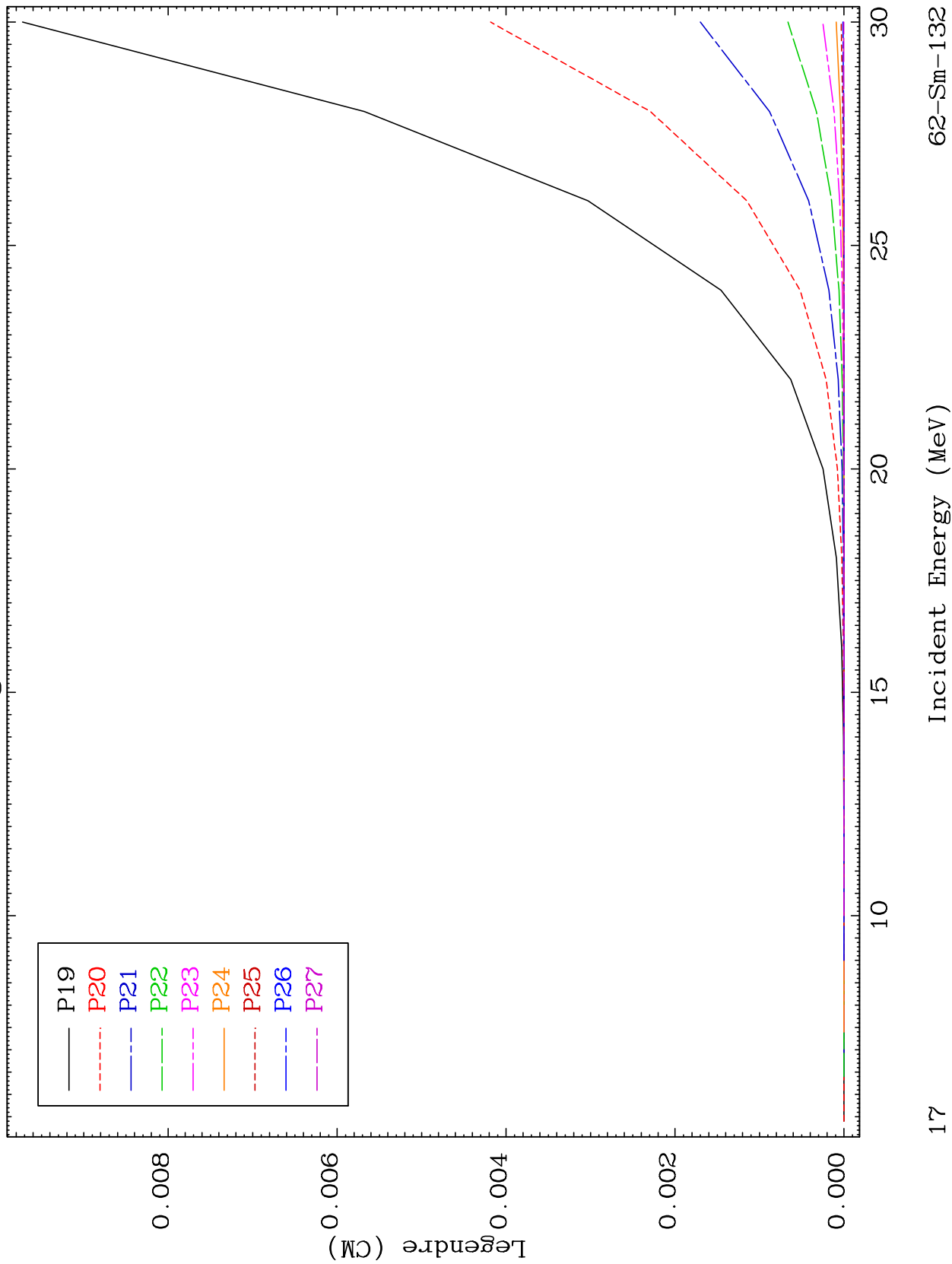
Incident Energy (MeV)

62-Sm-132

MAT 6189

Elastic Legendre Coefficients

62-Sm-132



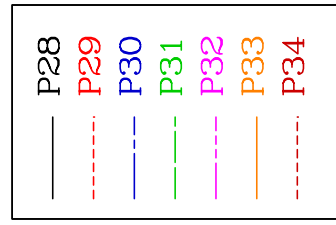
17

62-Sm-132

MAT 6189

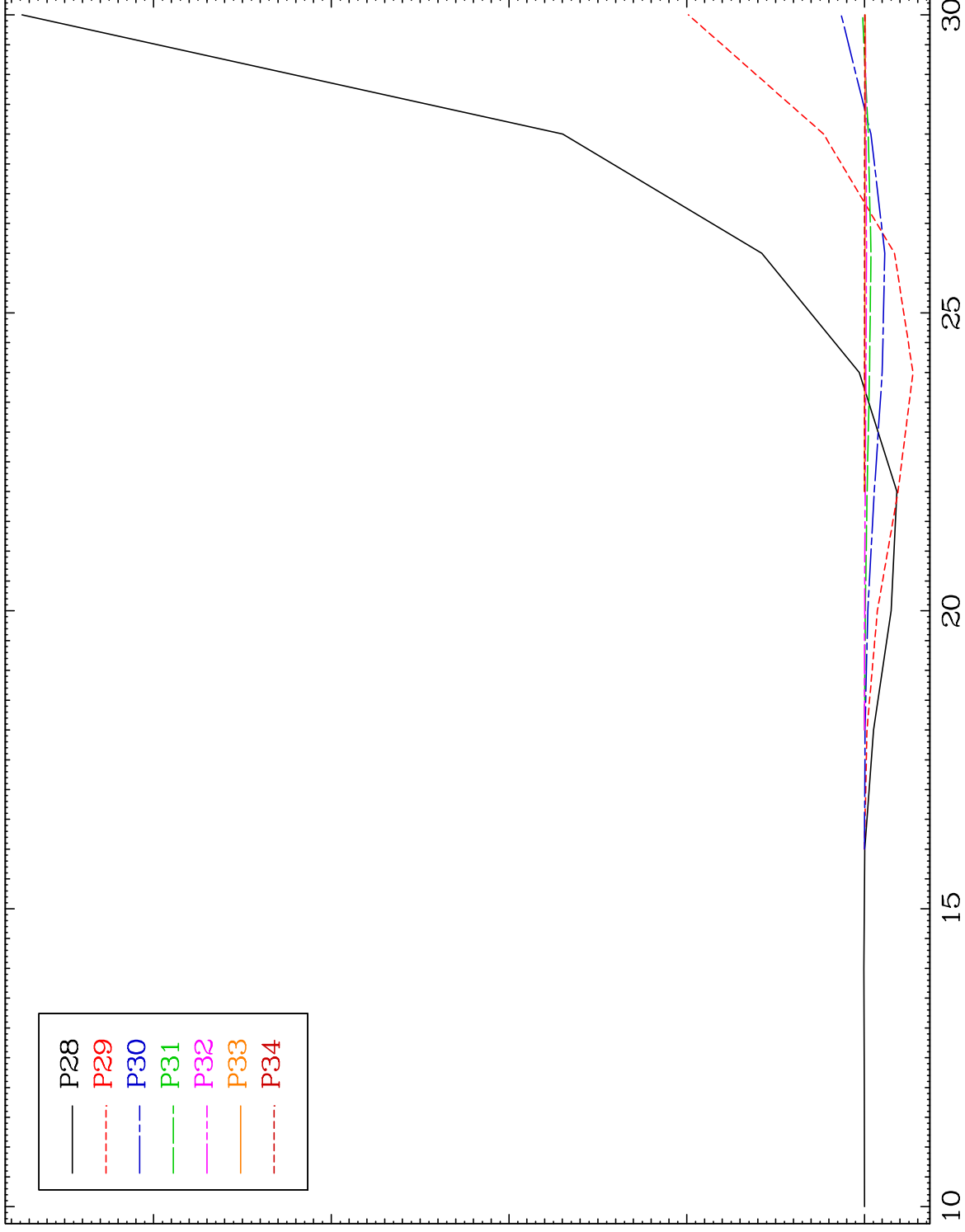
Elastic
Legendre Coefficients

62-Sm-132



$\times 10^{-7}$

Legendre (CM)



10

15

20

25

30

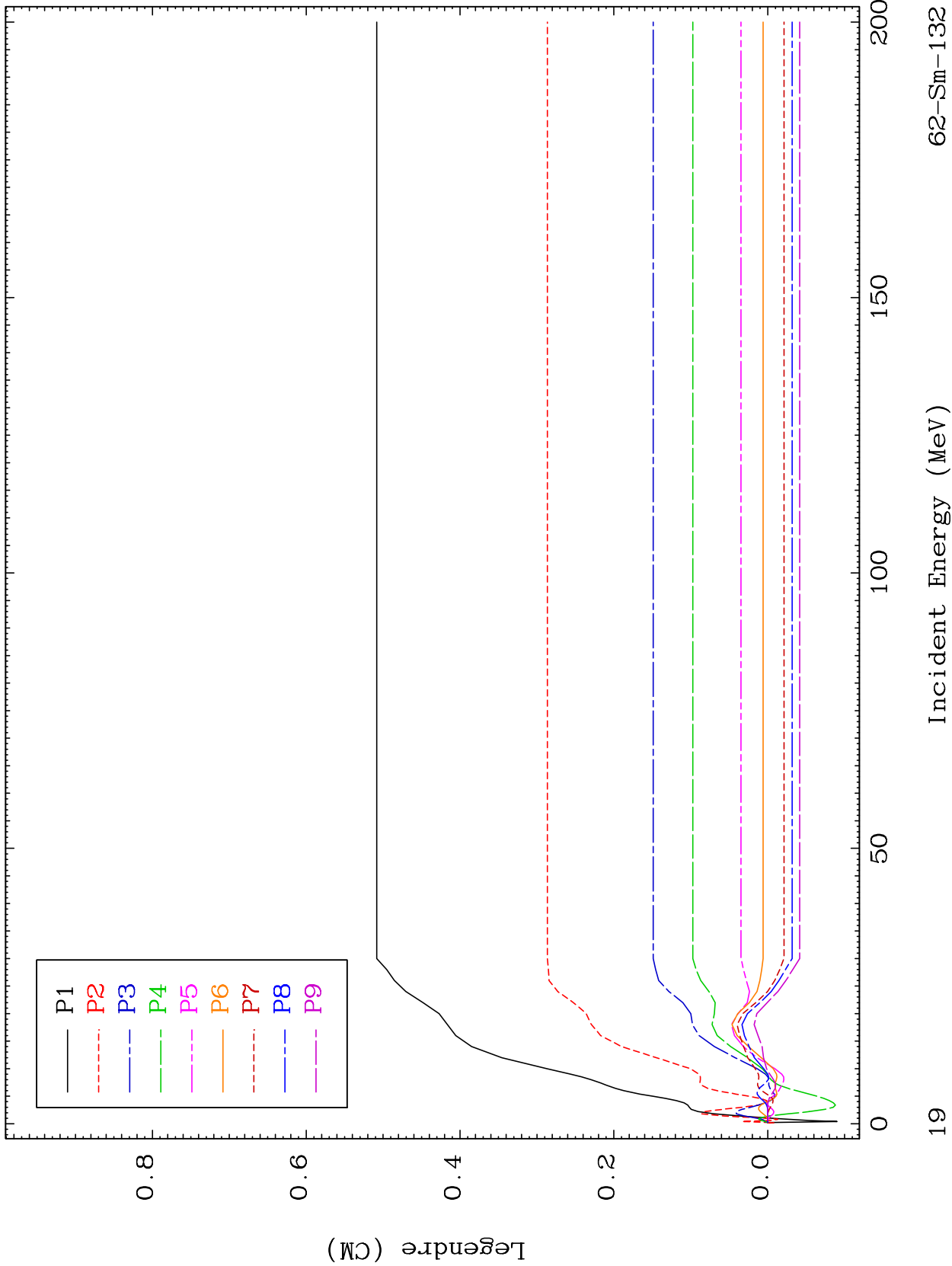
Incident Energy (MeV)

62-Sm-132

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

62-Sm-132



19

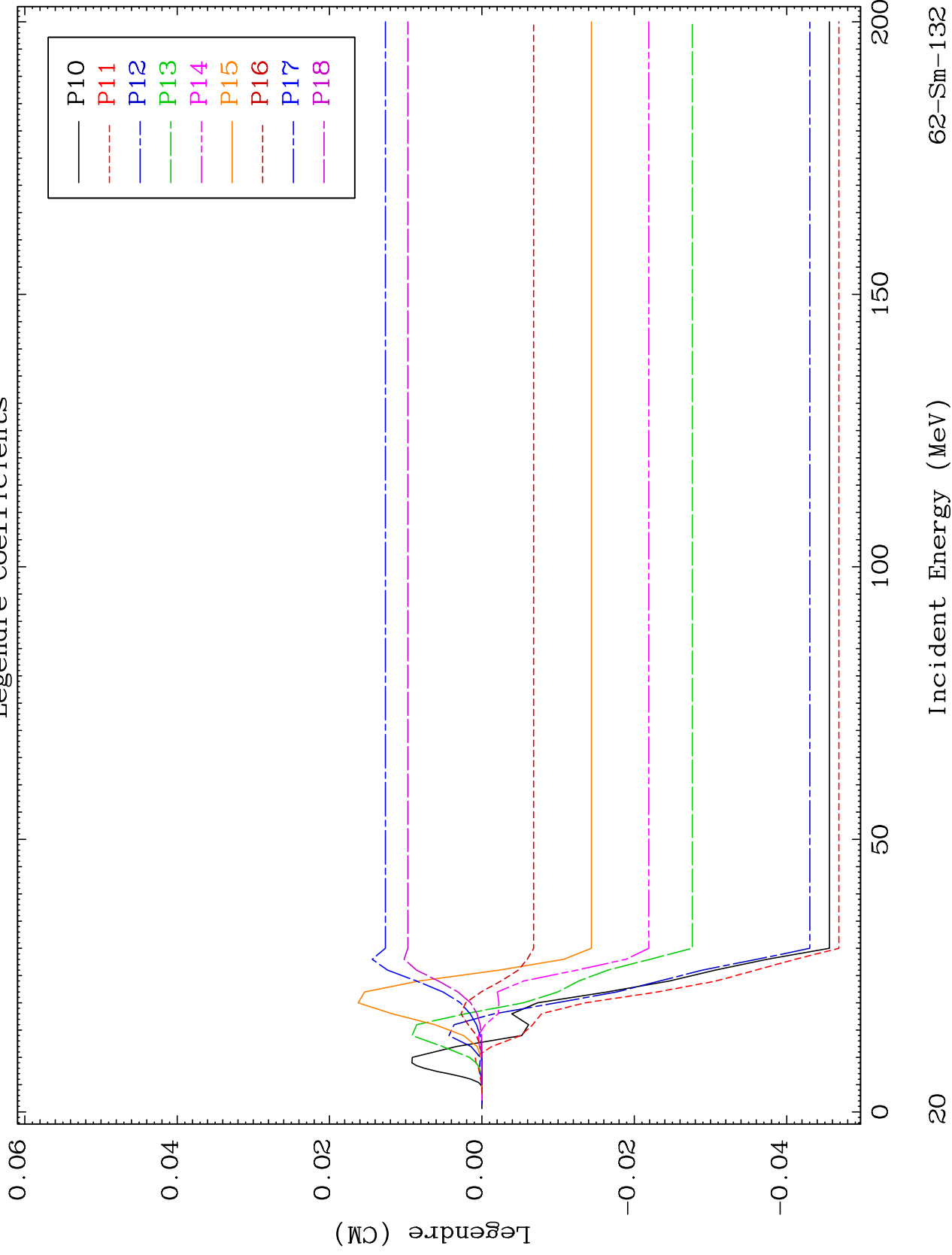
Incident Energy (MeV)

62-Sm-132

MAT 6189

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

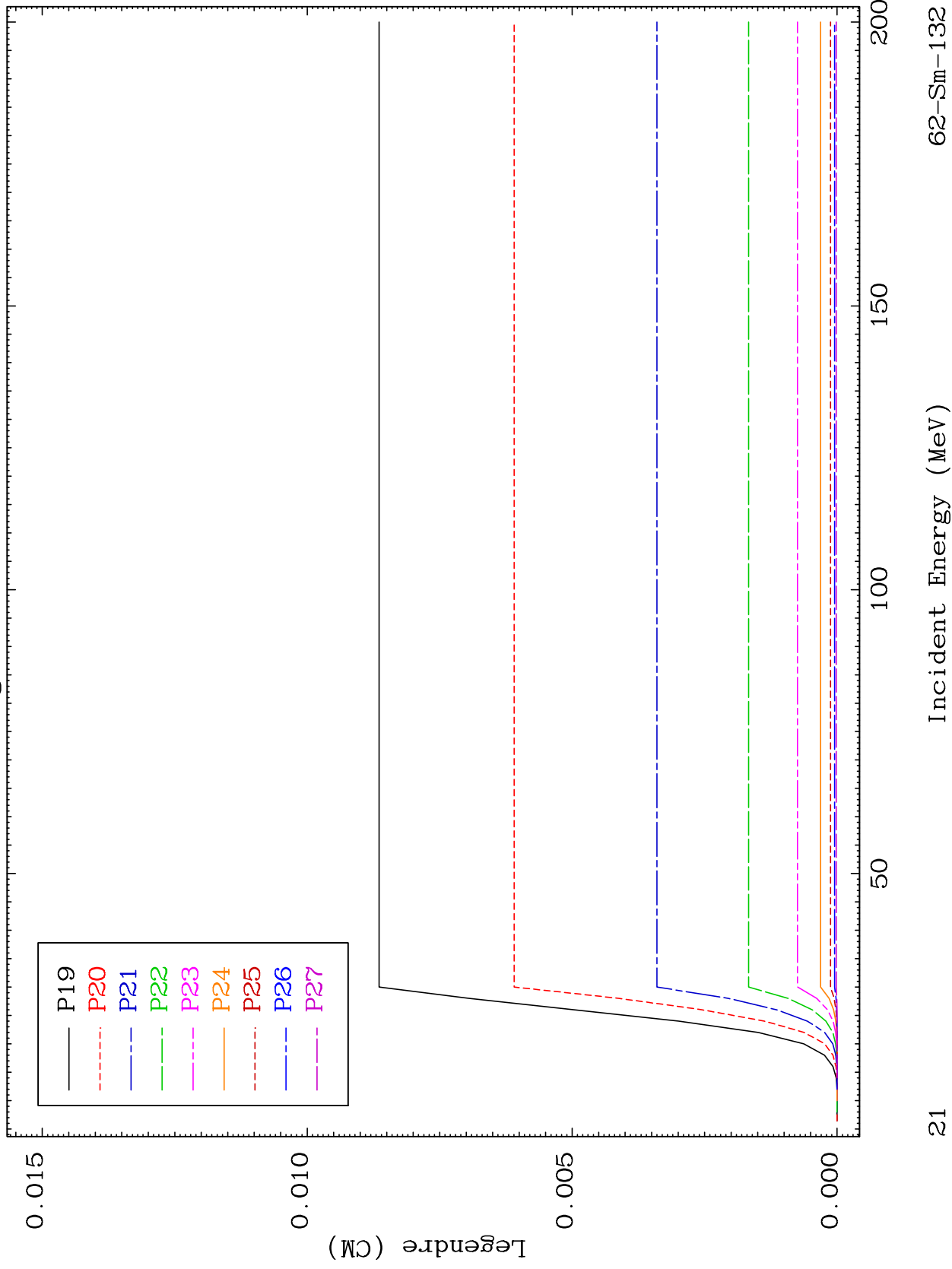
62-Sm-132



62-Sm-132

Incident Energy (MeV)

20

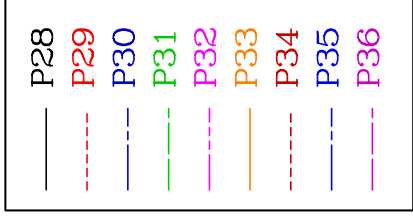


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MT= 51 (n,n') Level
Legendre Coefficients

62-Sm-132

$\times 10^{-6}$



Legendre (CM)

200

150

100

50

22

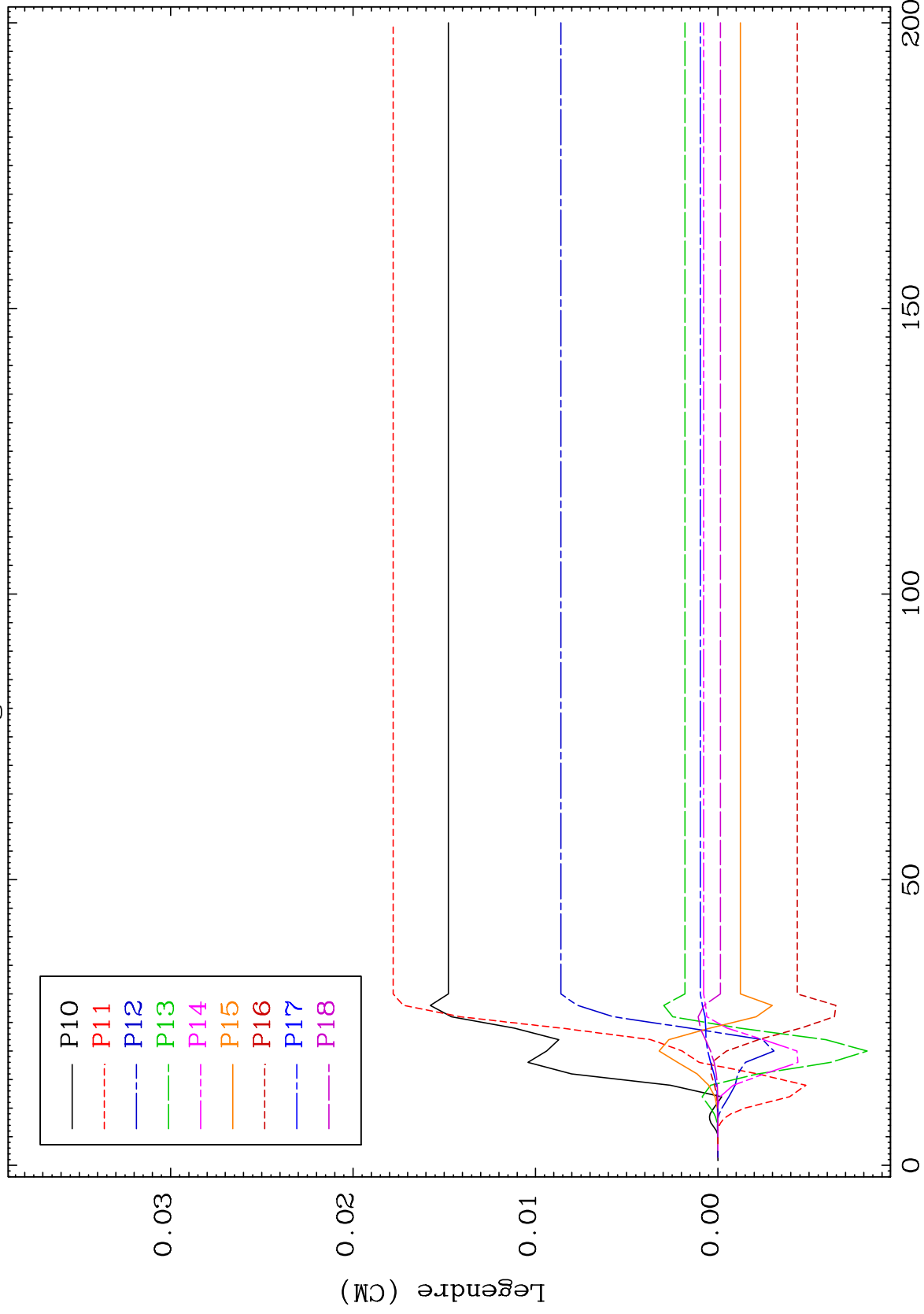
Incident Energy (MeV)

62-Sm-132

MAT 6189

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

62-Sm-132



24

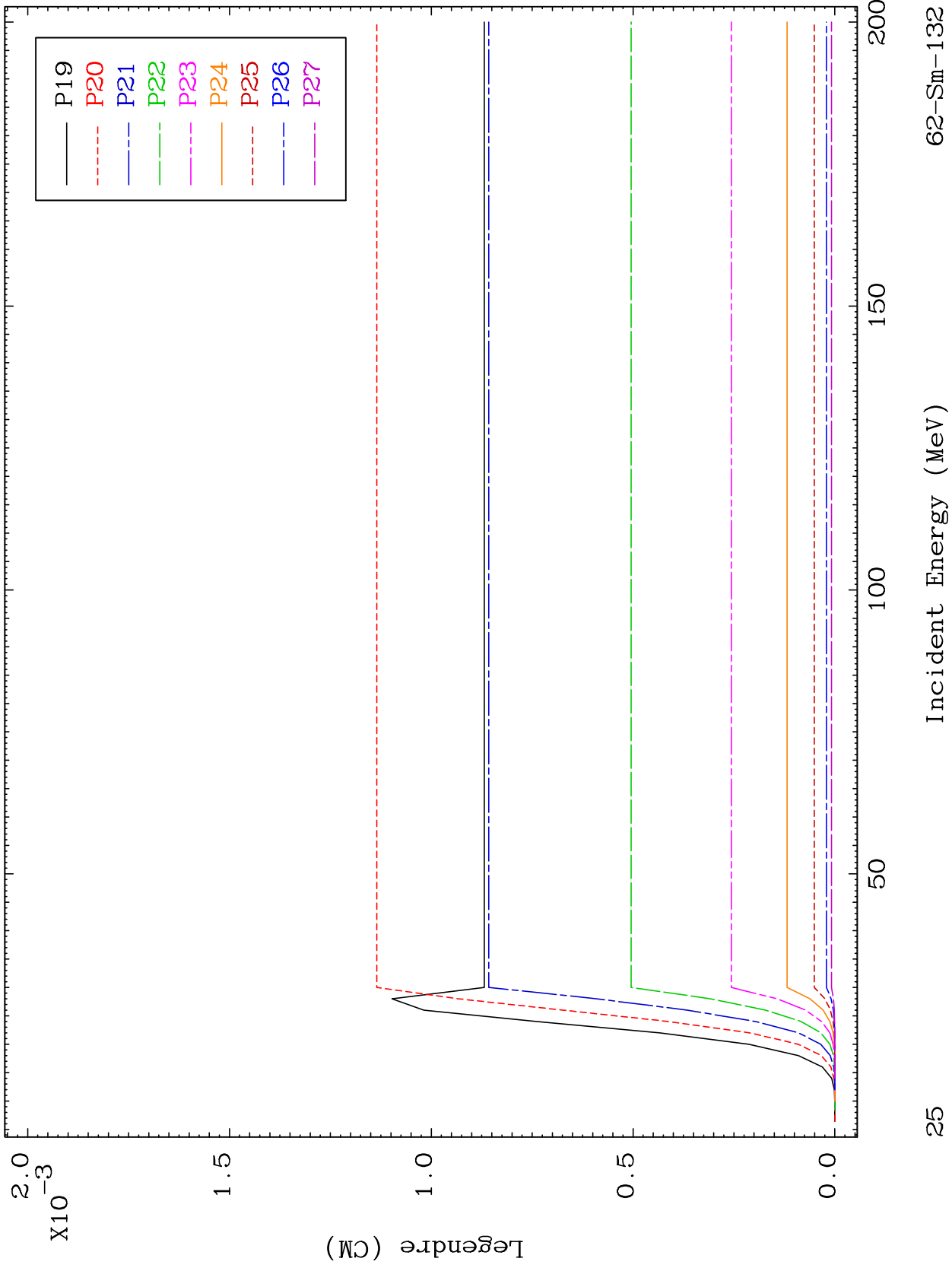
Incident Energy (MeV)

62-Sm-132

MAT 6189

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

62-Sm-132



25

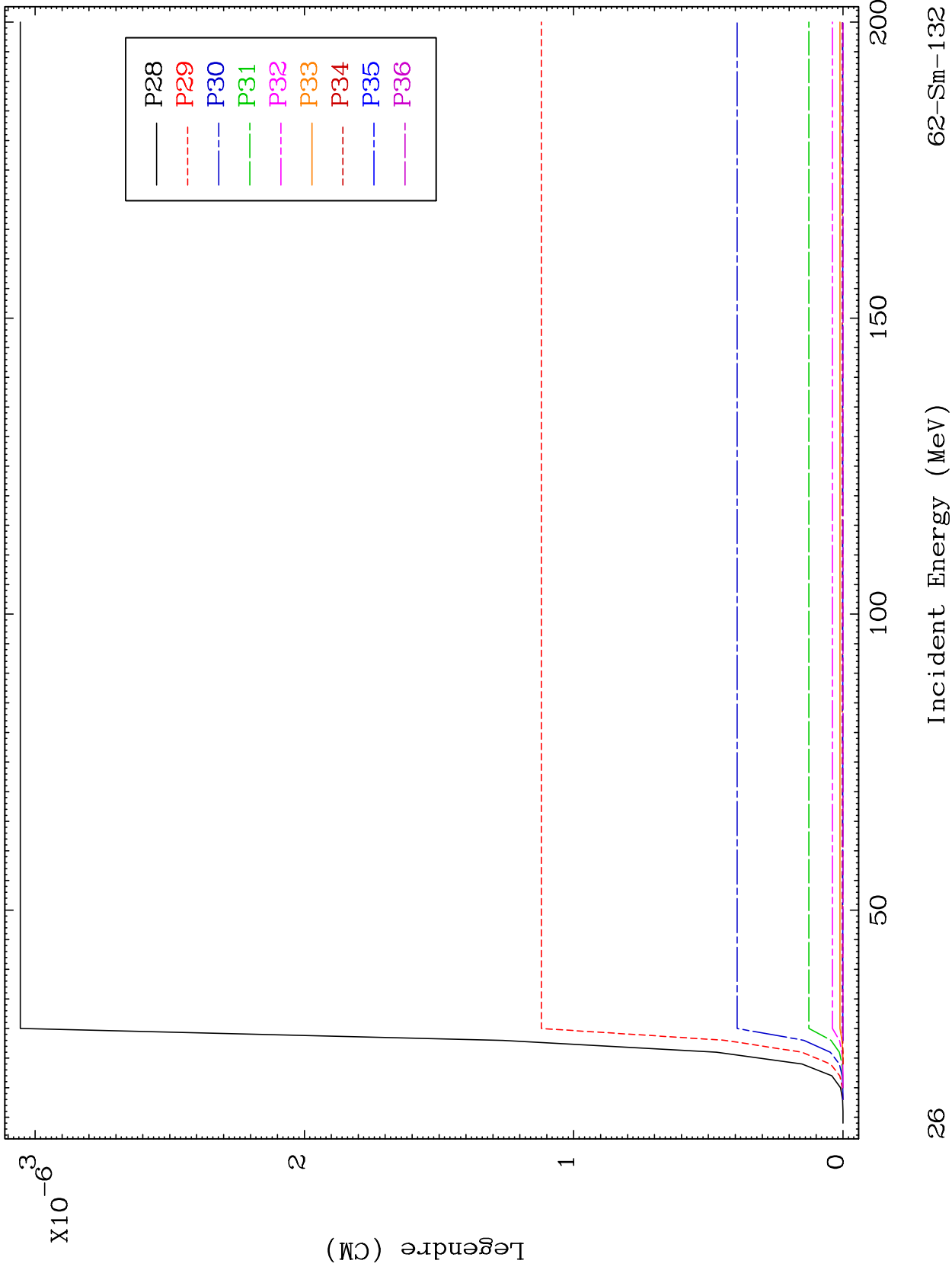
Incident Energy (MeV)

62-Sm-132

MAT 6189

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

62-Sm-132



26

Incident Energy (MeV)

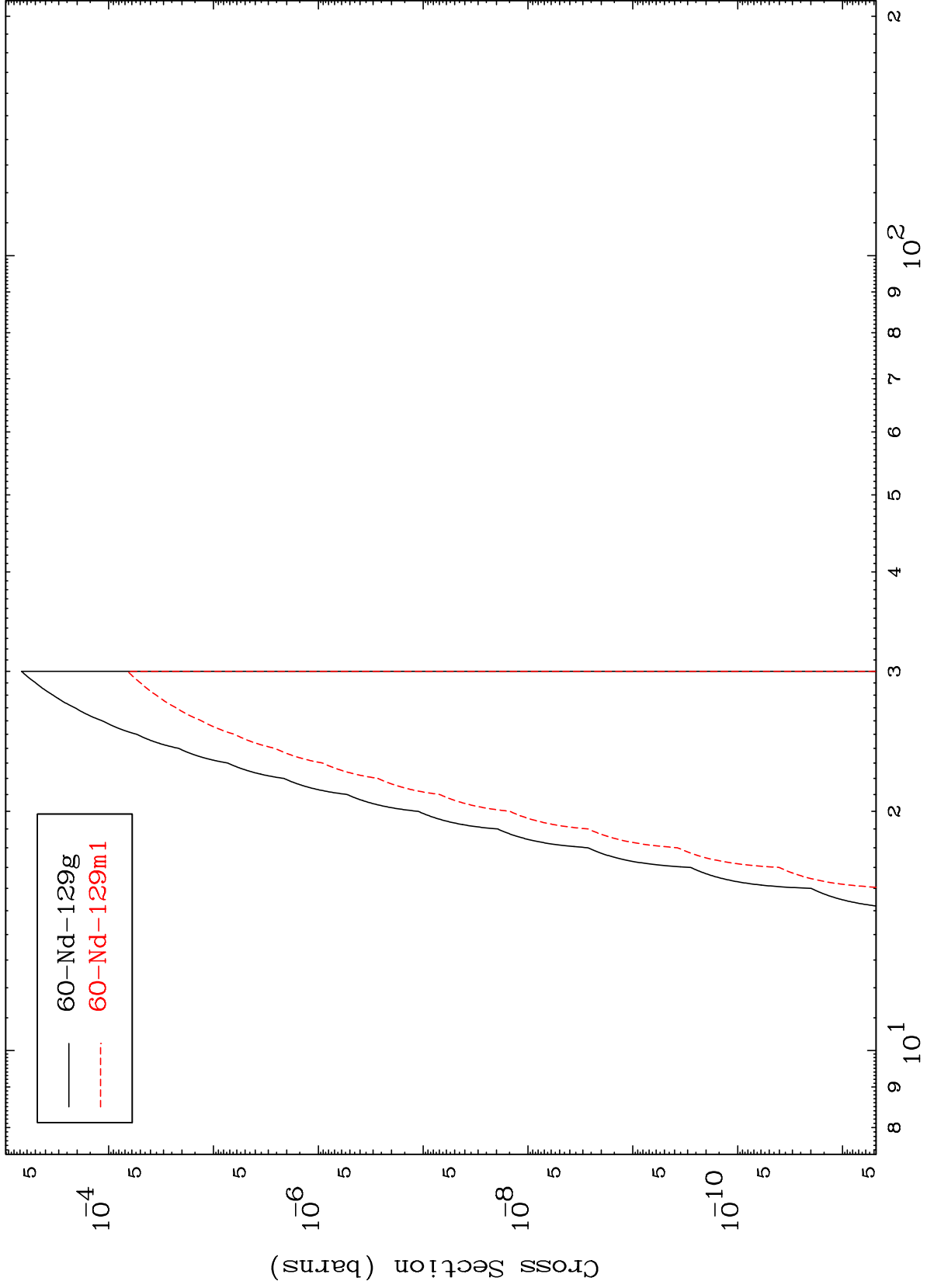
62-Sm-132

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(n,n') He-3

62-Sm-132

Radionuclide Production Cross Section



27

Incident Energy (MeV)

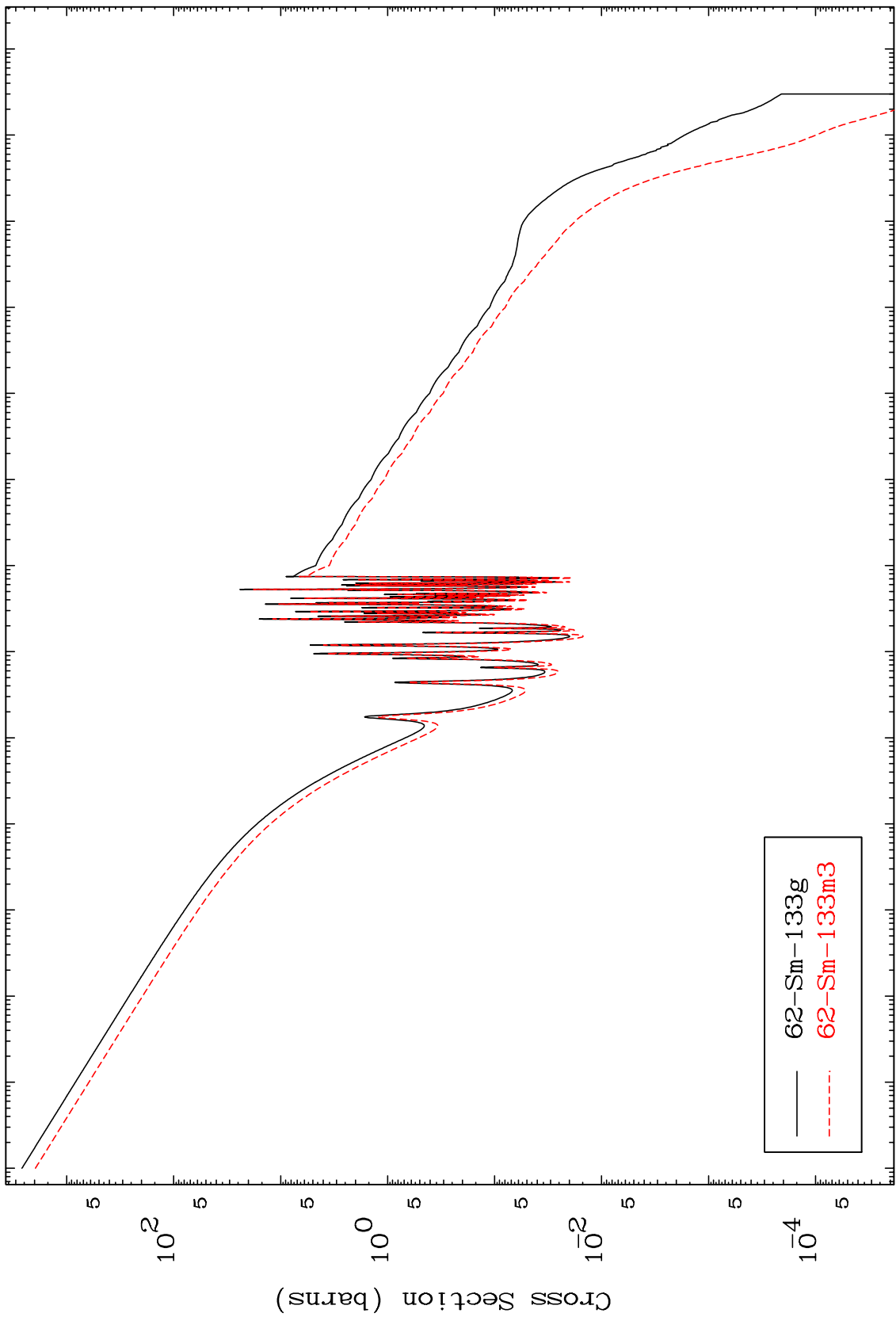
62-Sm-132

MAT 6189

62-Sm-132

Radionuclide Production Cross Section

(n, γ)



62-Sm-132

10²

10⁰

10⁻²

10⁻⁴

10⁻⁶

10⁻⁸

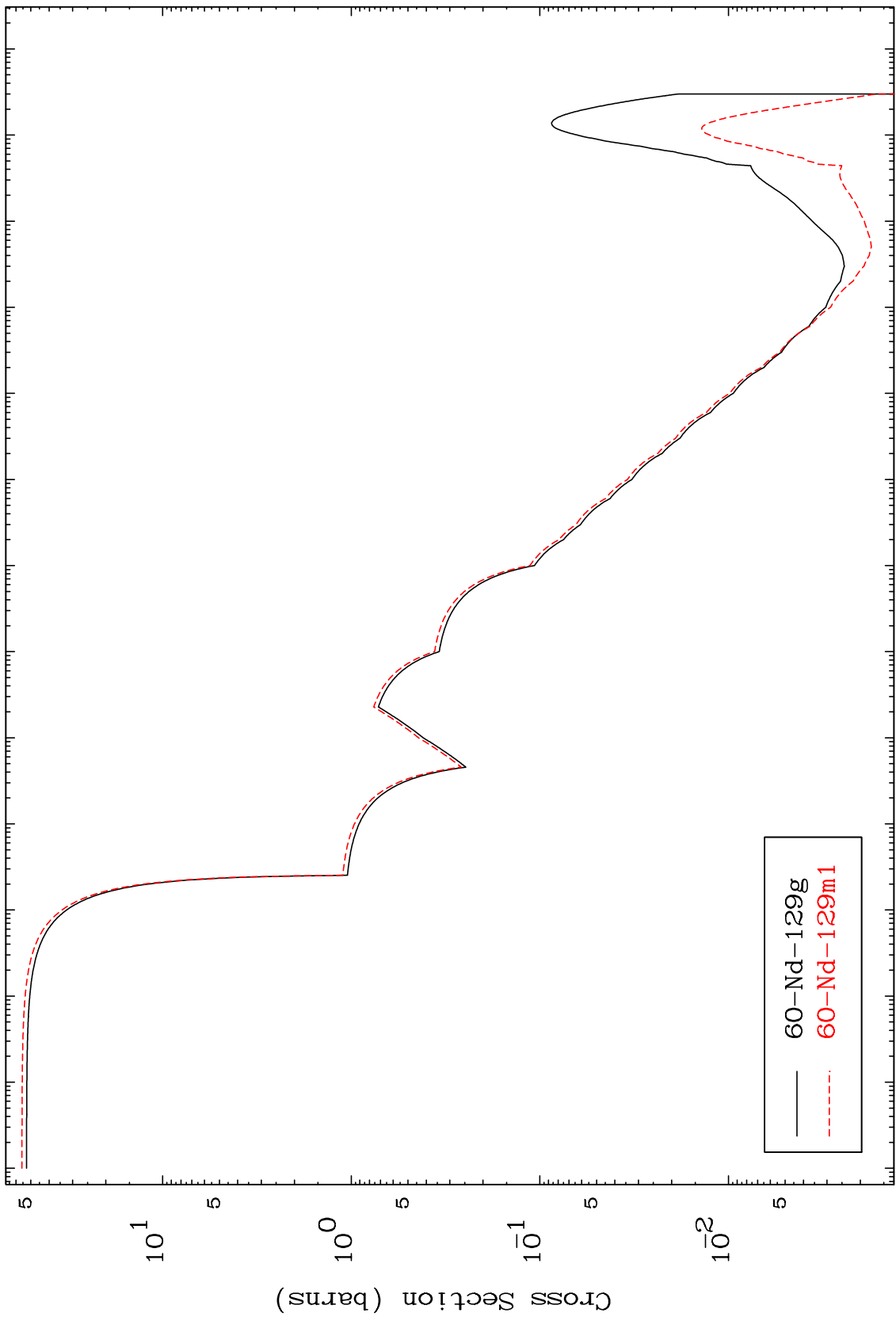
10⁻¹⁰

Incident Energy (MeV)

62-Sm-132

Radionuclide Production Cross Section

(n, α)



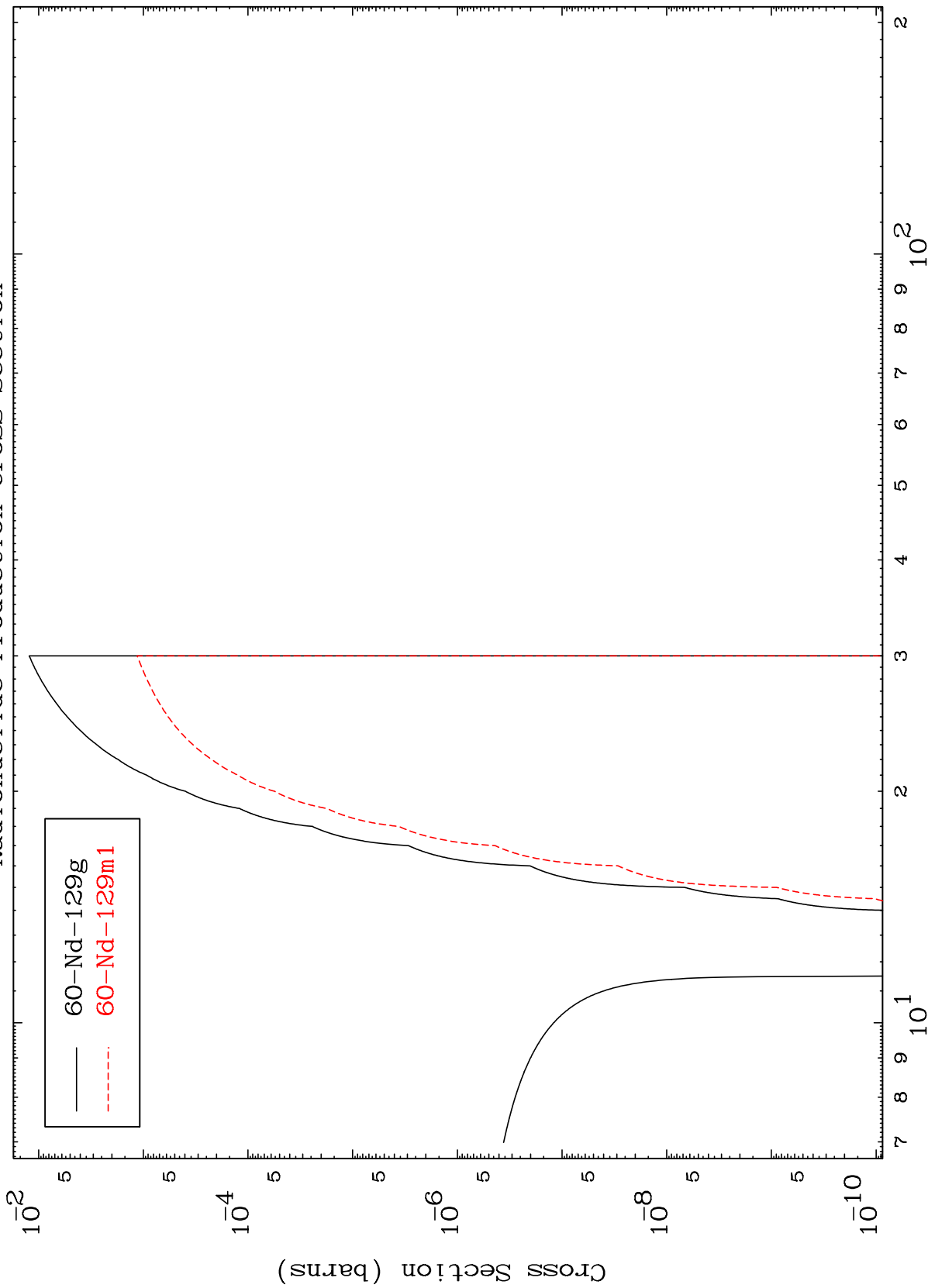
Incident Energy (MeV)

MAT 6189

(n,p) t

62-Sm-132

Radionuclide Production Cross Section



30

Incident Energy (MeV)

62-Sm-132