

Program EVALPLOT
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

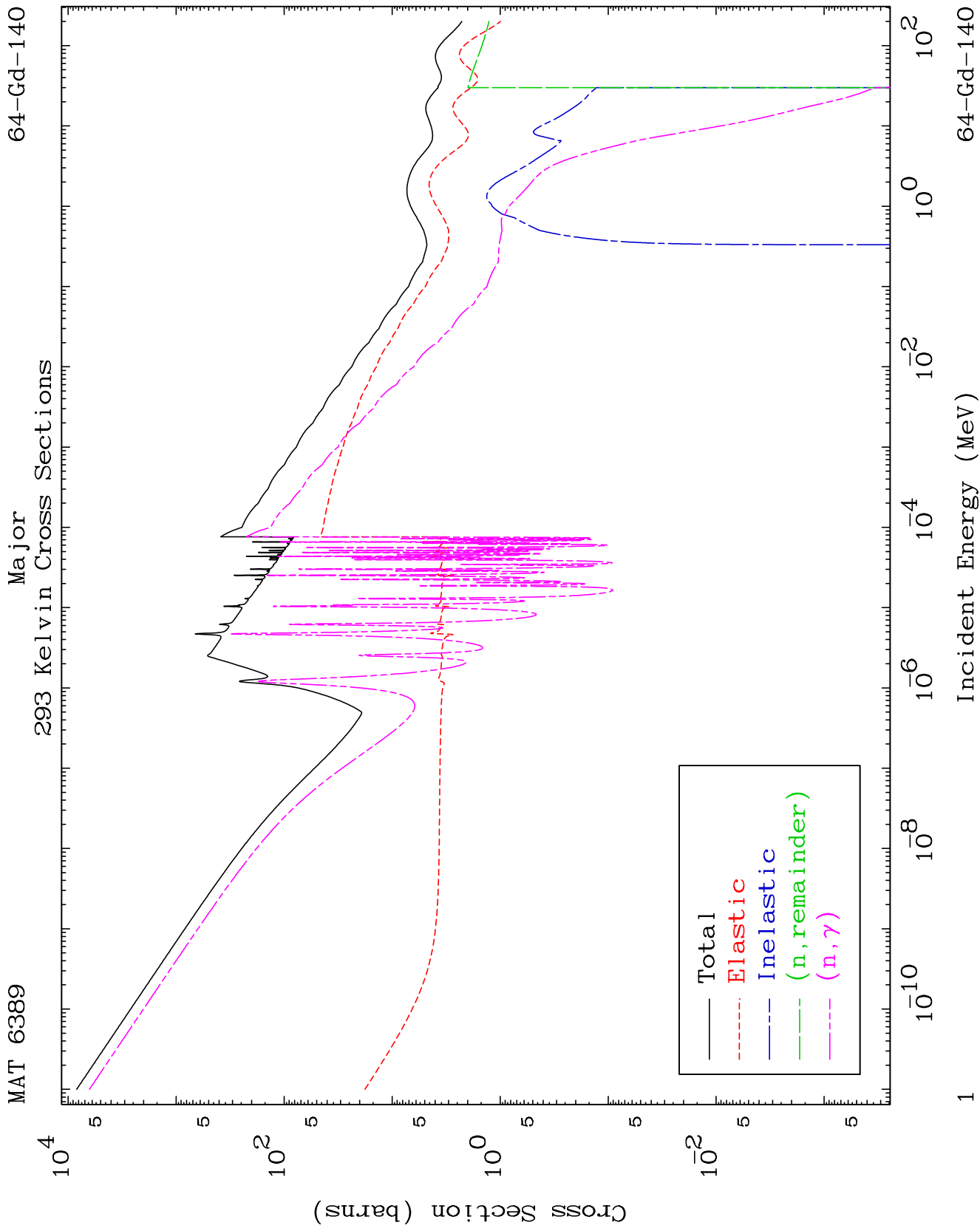
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Web:redcullen1.net/HOMEPAGE.NEW

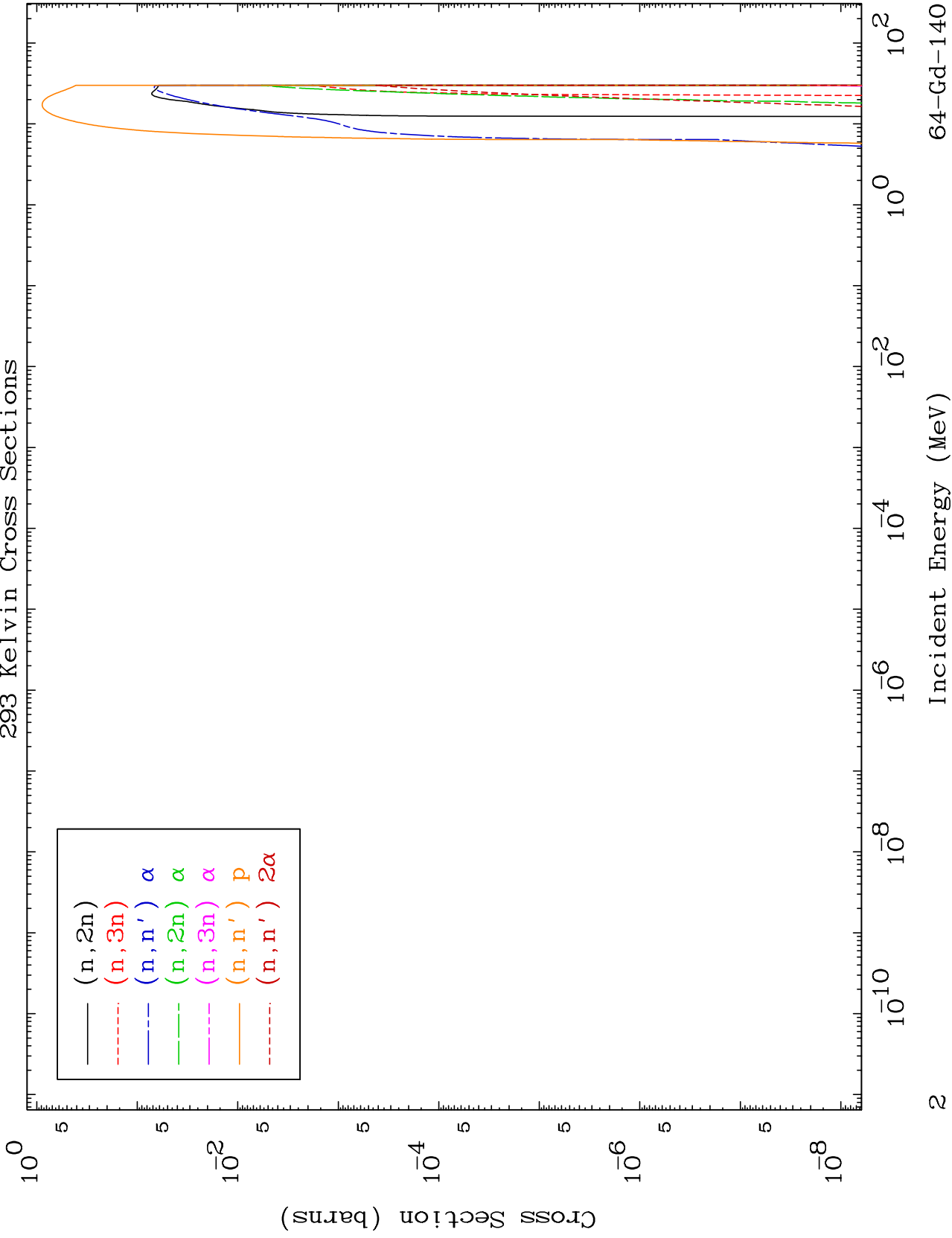
Press Mouse Button to Start

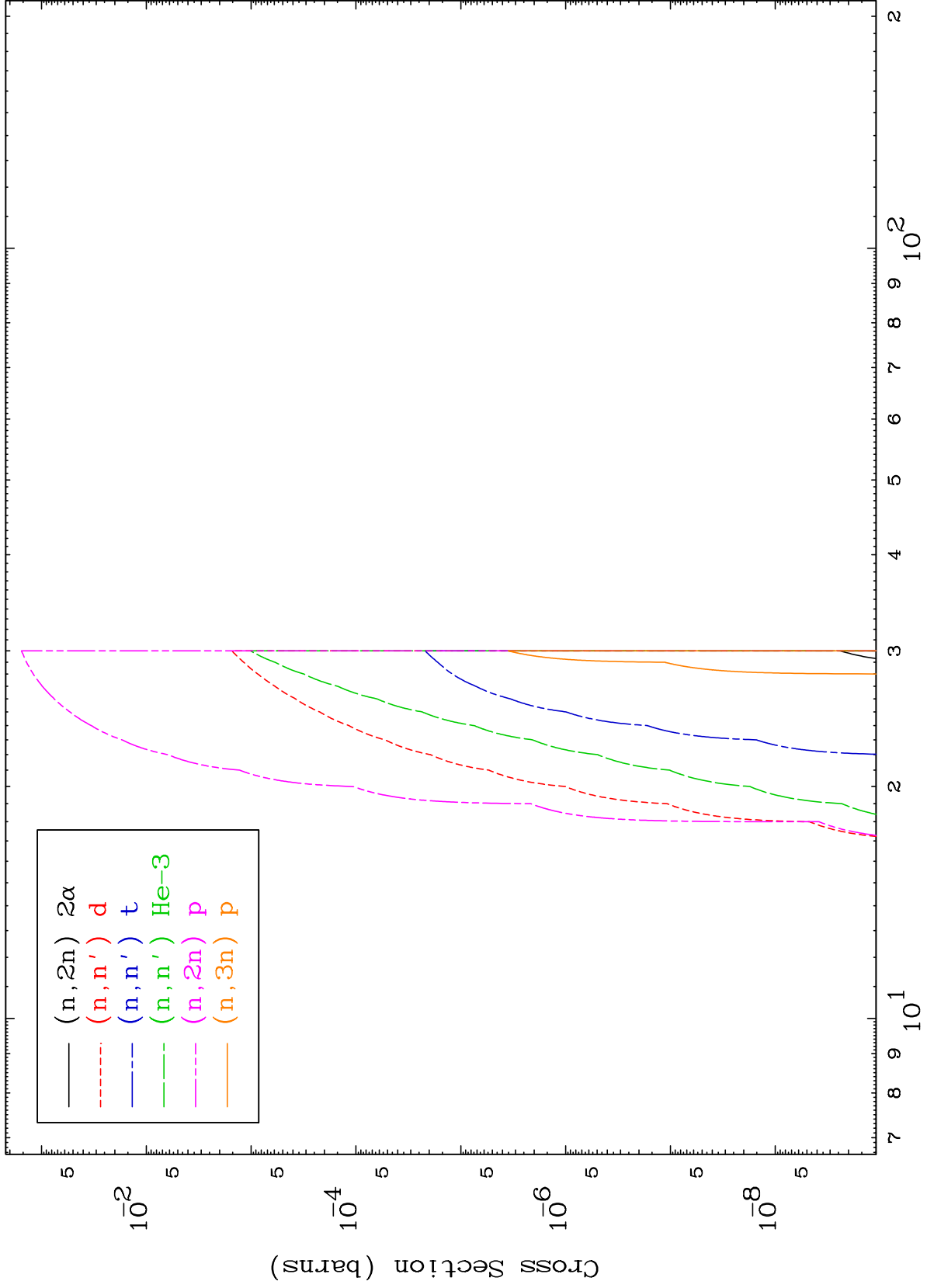


MAT 6389

Neutron Production
293 Kelvin Cross Sections

64-Gd-140

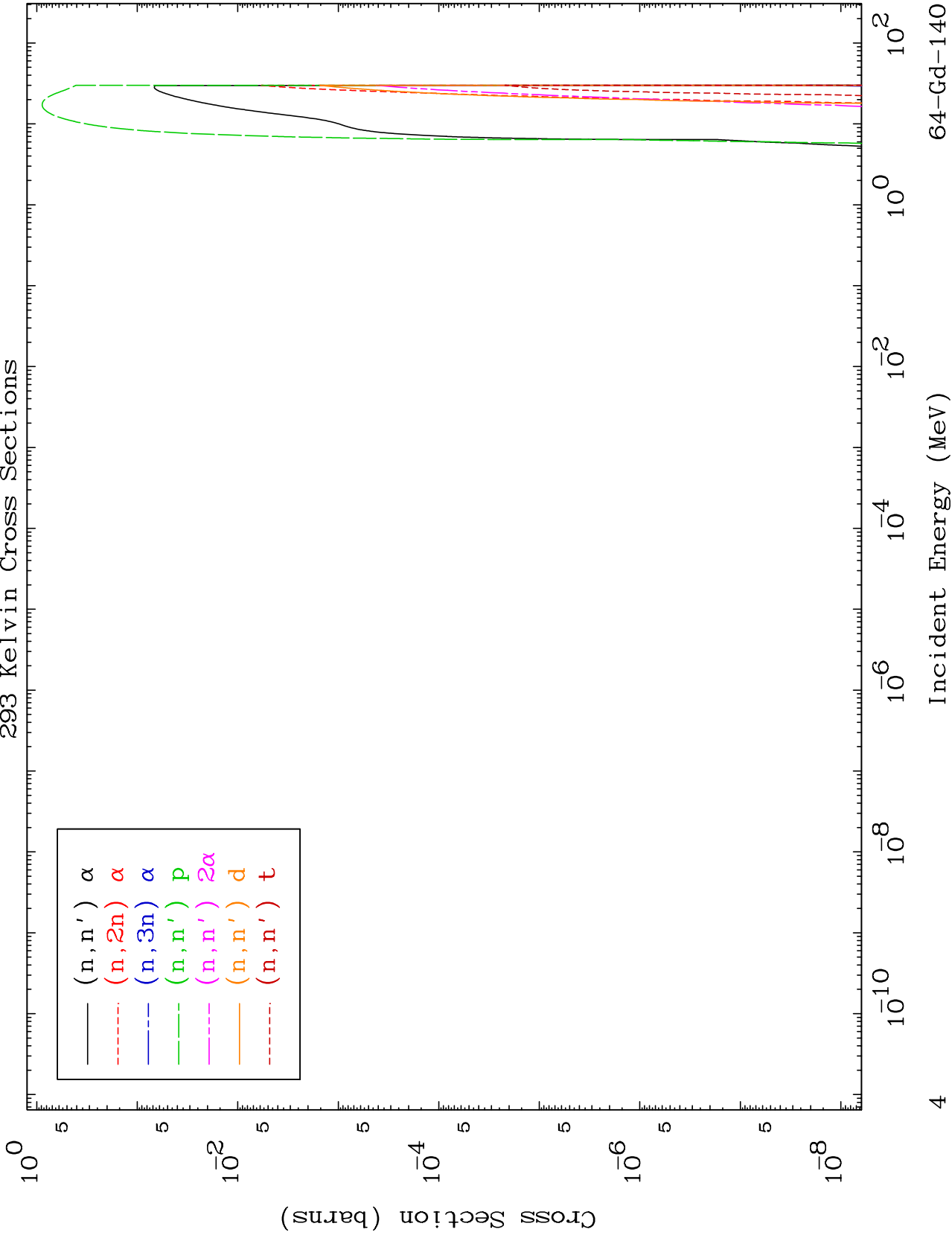




MAT 6389

Charged Particle
293 Kelvin Cross Sections

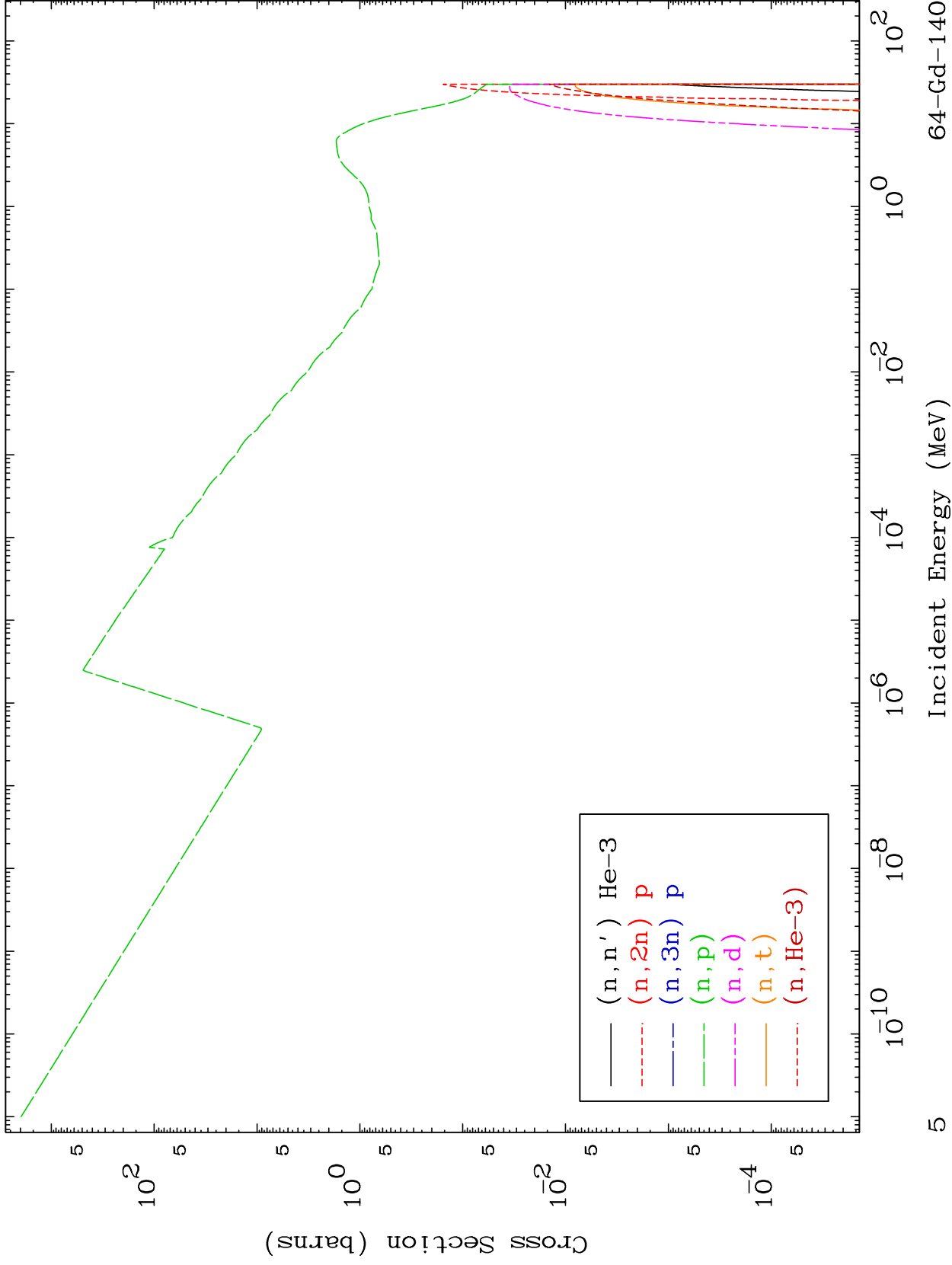
64-Gd-140



MAT 6389

Charged Particle
293 Kelvin Cross Sections

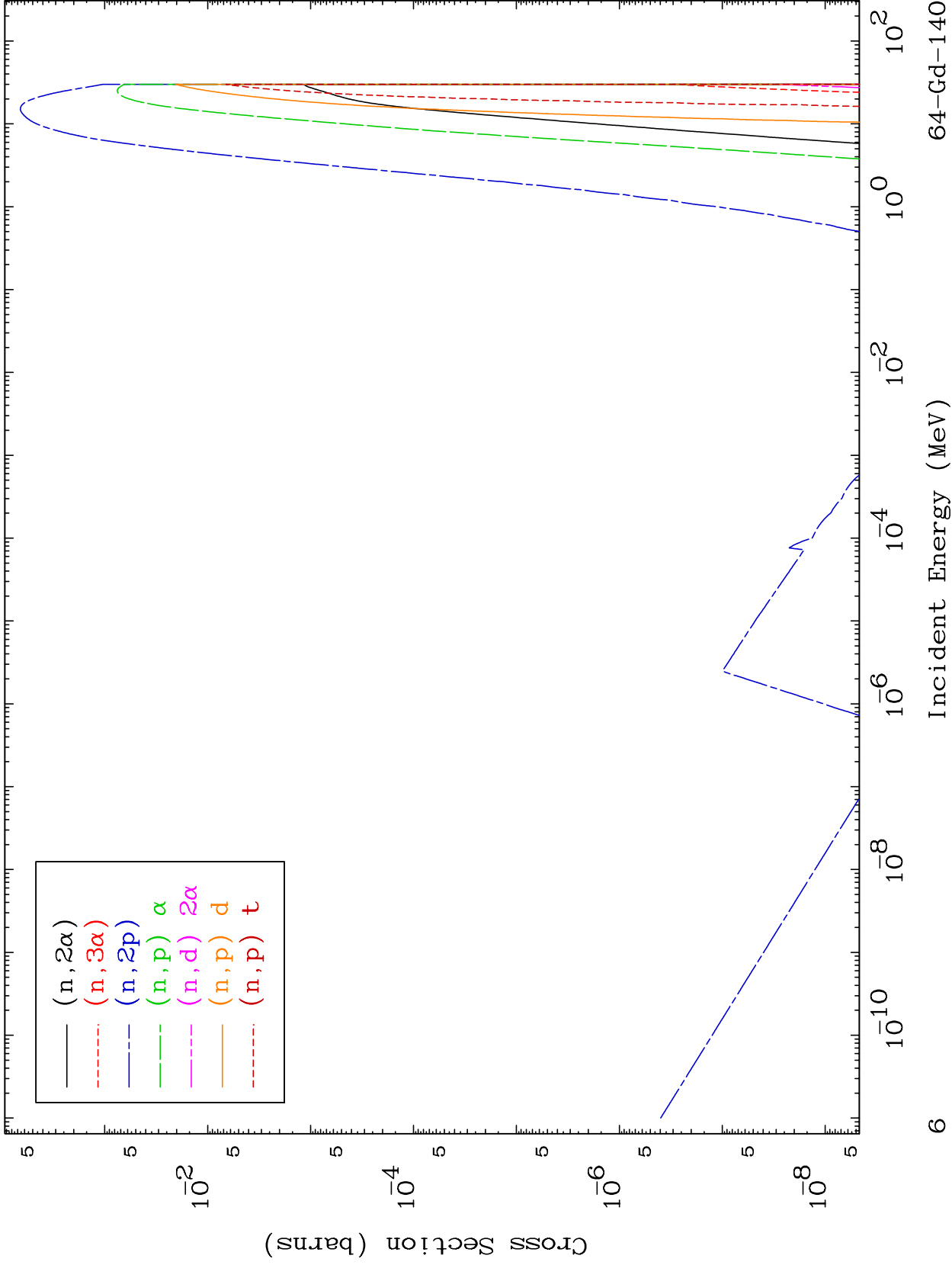
64-Gd-140



MAT 6389

Charged Particle
293 Kelvin Cross Sections

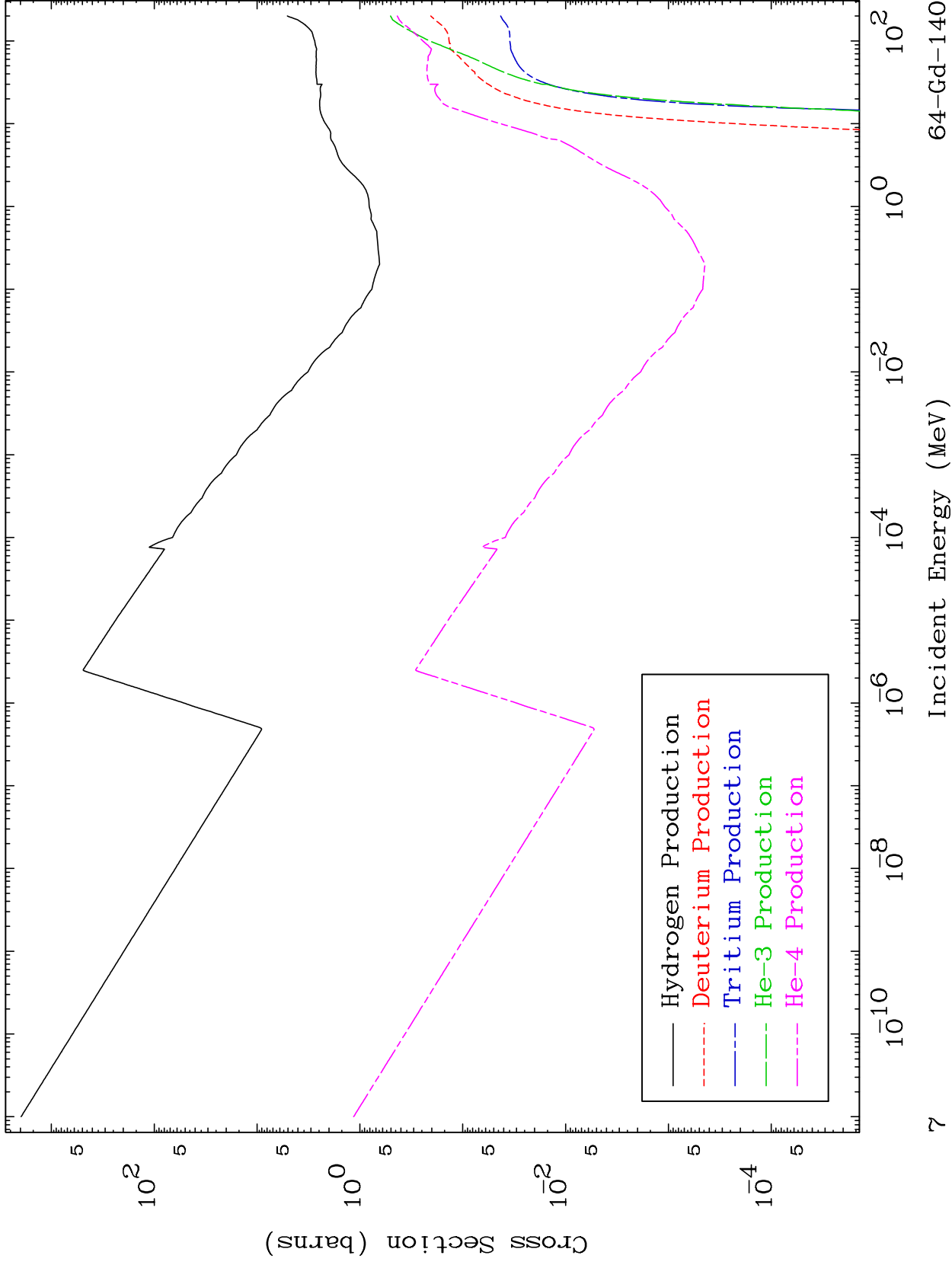
64-Gd-140



MAT 6389

Particle Production
293 Kelvin Cross Sections

64-Gd-140

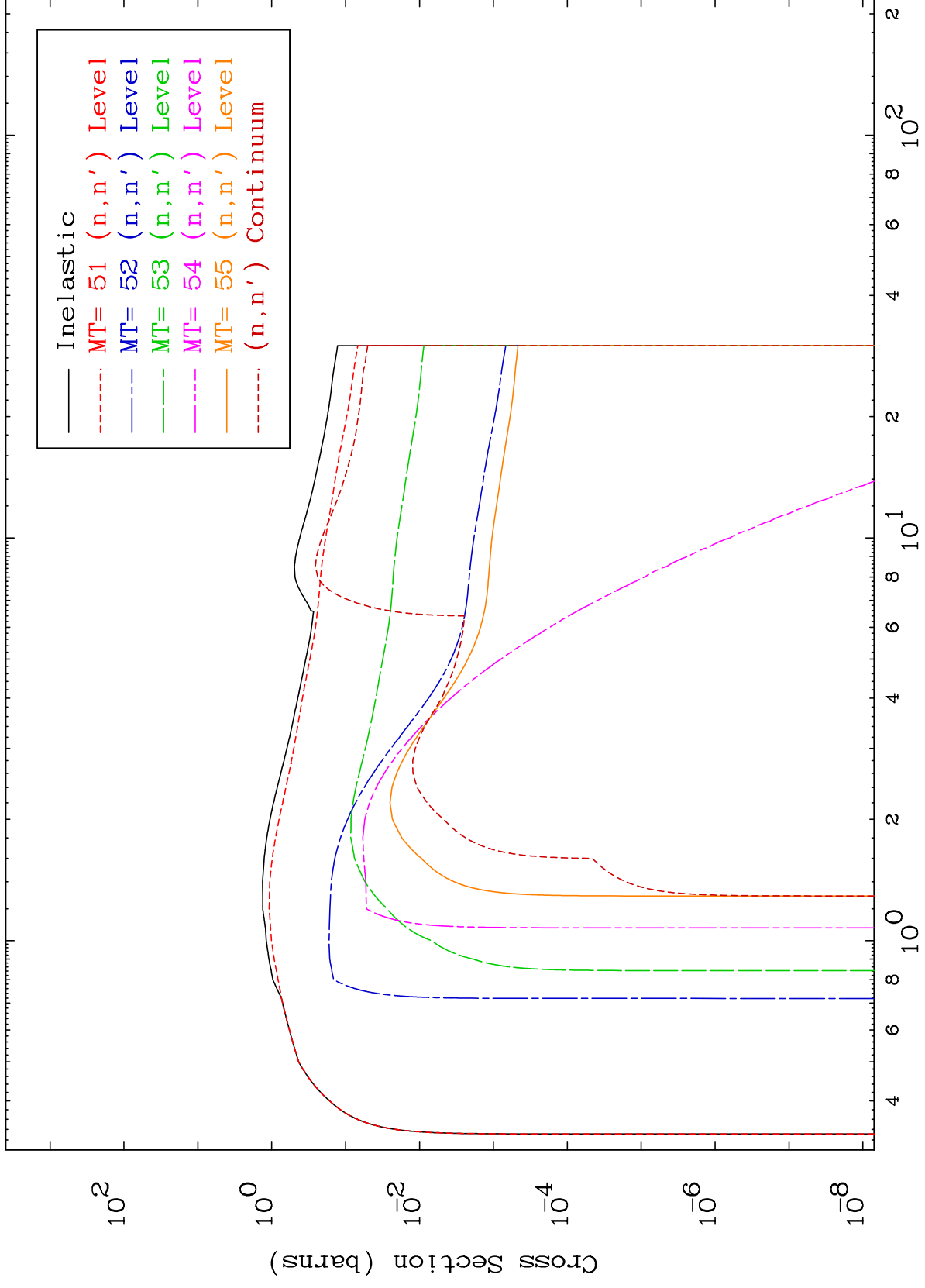


MAT 6389

(n,n') Level

64-Gd-140

293 Kelvin Cross Sections



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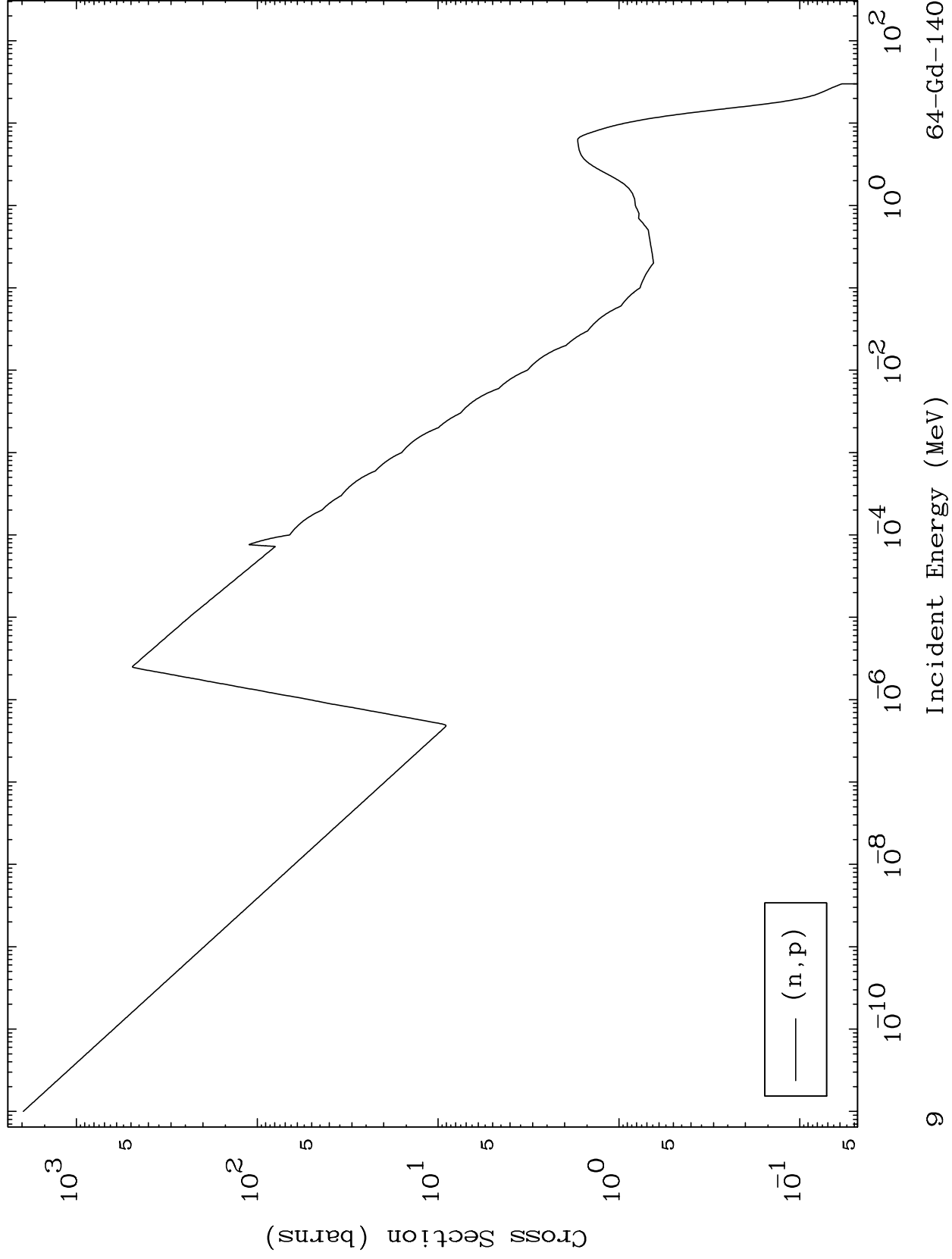
Incident Energy (MeV)

64-Gd-140

MAT 6389

(n,p) Levels
293 Kelvin Cross Sections

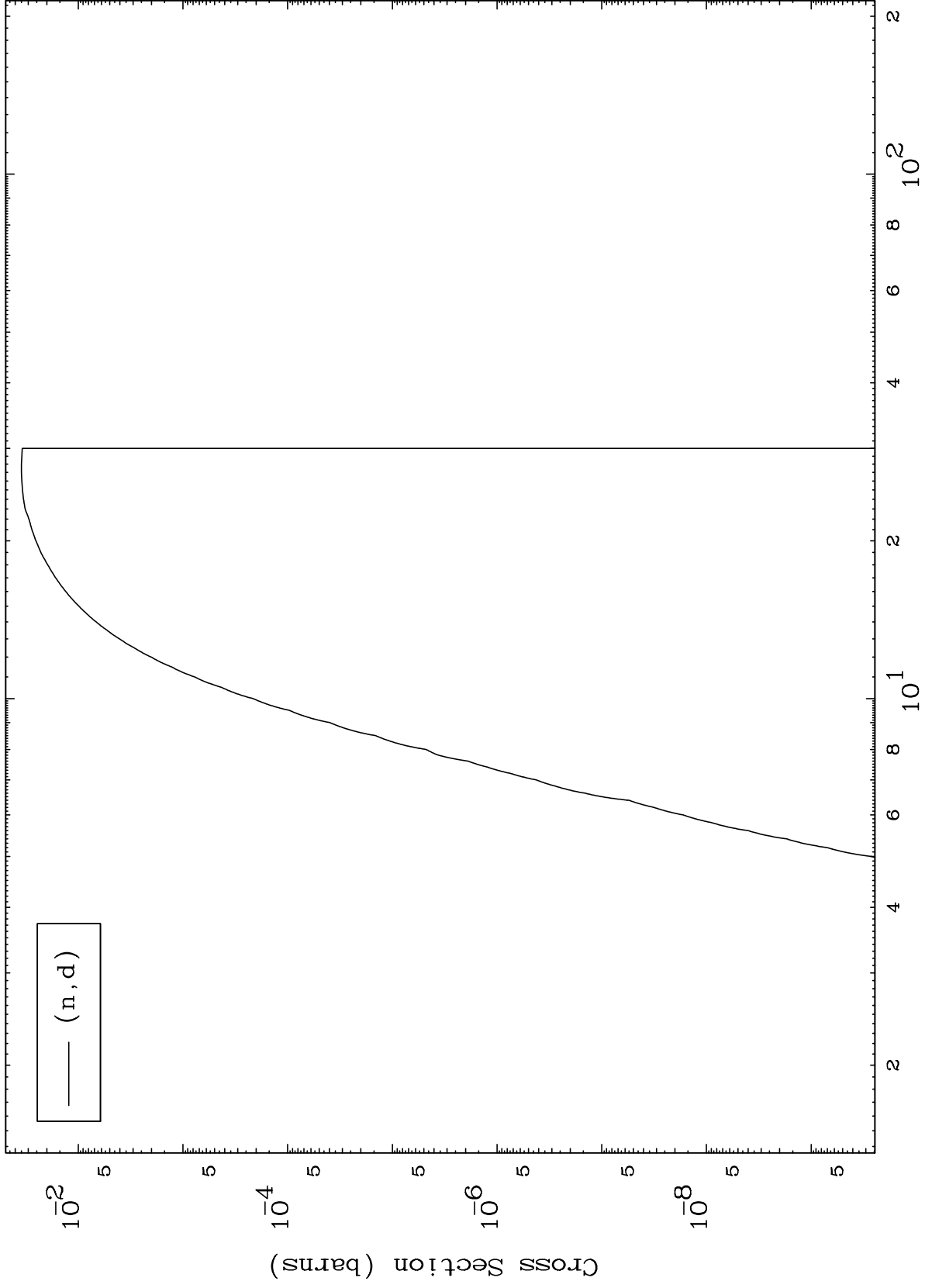
64-Gd-140



MAT 6389

(n,d) Levels
293 Kelvin Cross Sections

64-Gd-140



10

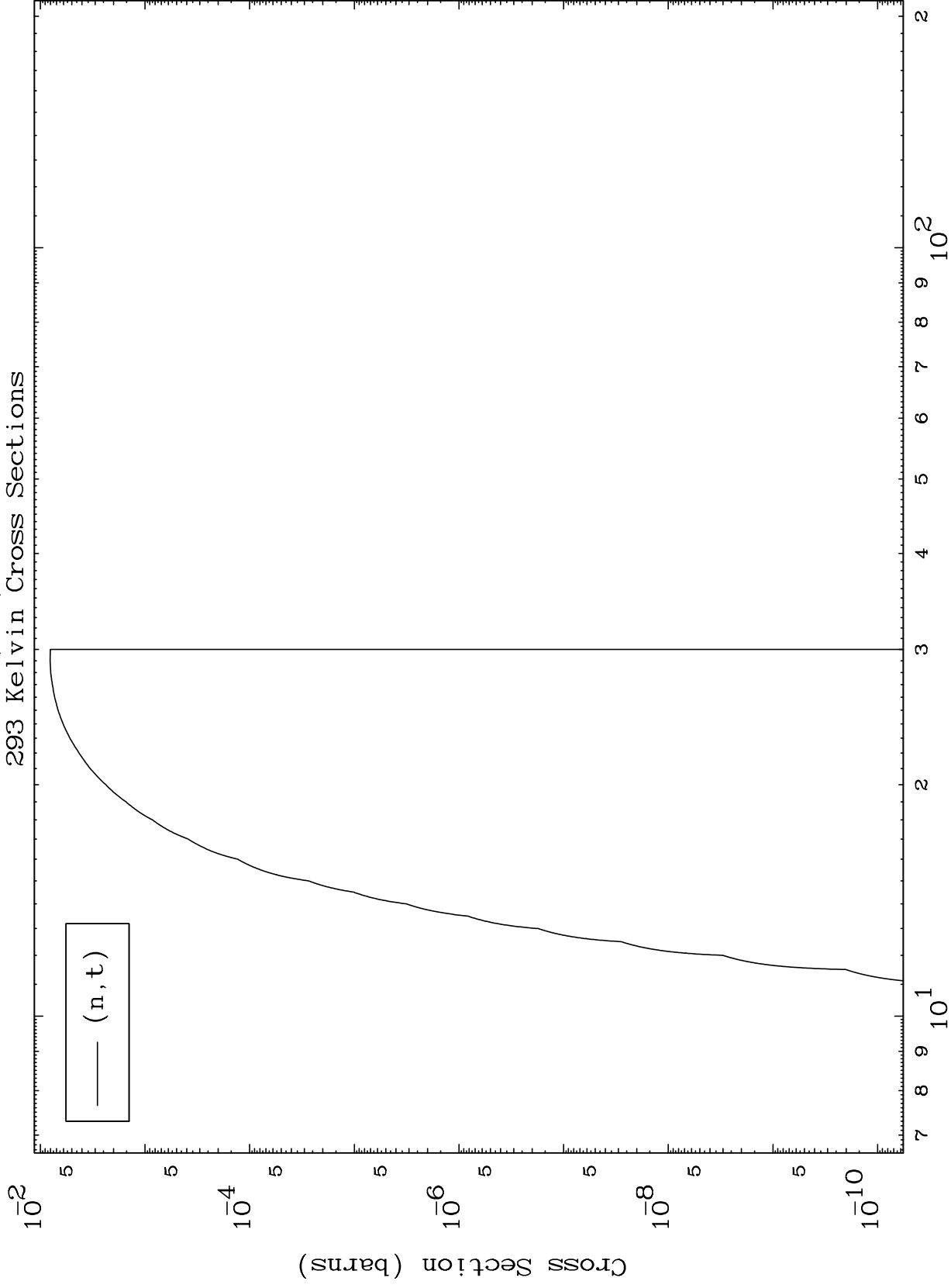
Incident Energy (MeV)

64-Gd-140

MAT 6389

(n,t) Levels
293 Kelvin Cross Sections

64-Gd-140



11

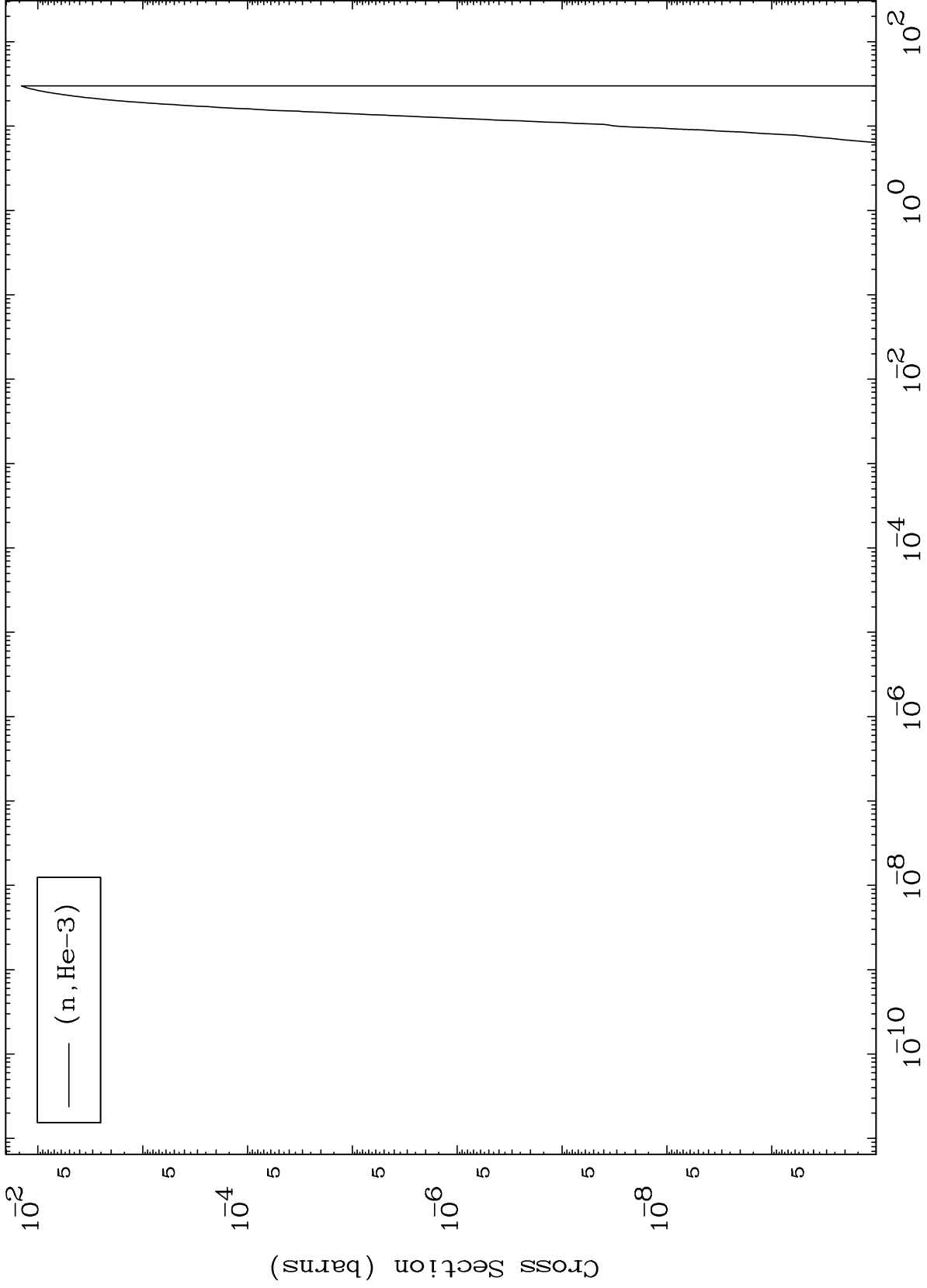
Incident Energy (MeV)

64-Gd-140

MAT 6389

(n,He3) Levels
293 Kelvin Cross Sections

64-Gd-140



12

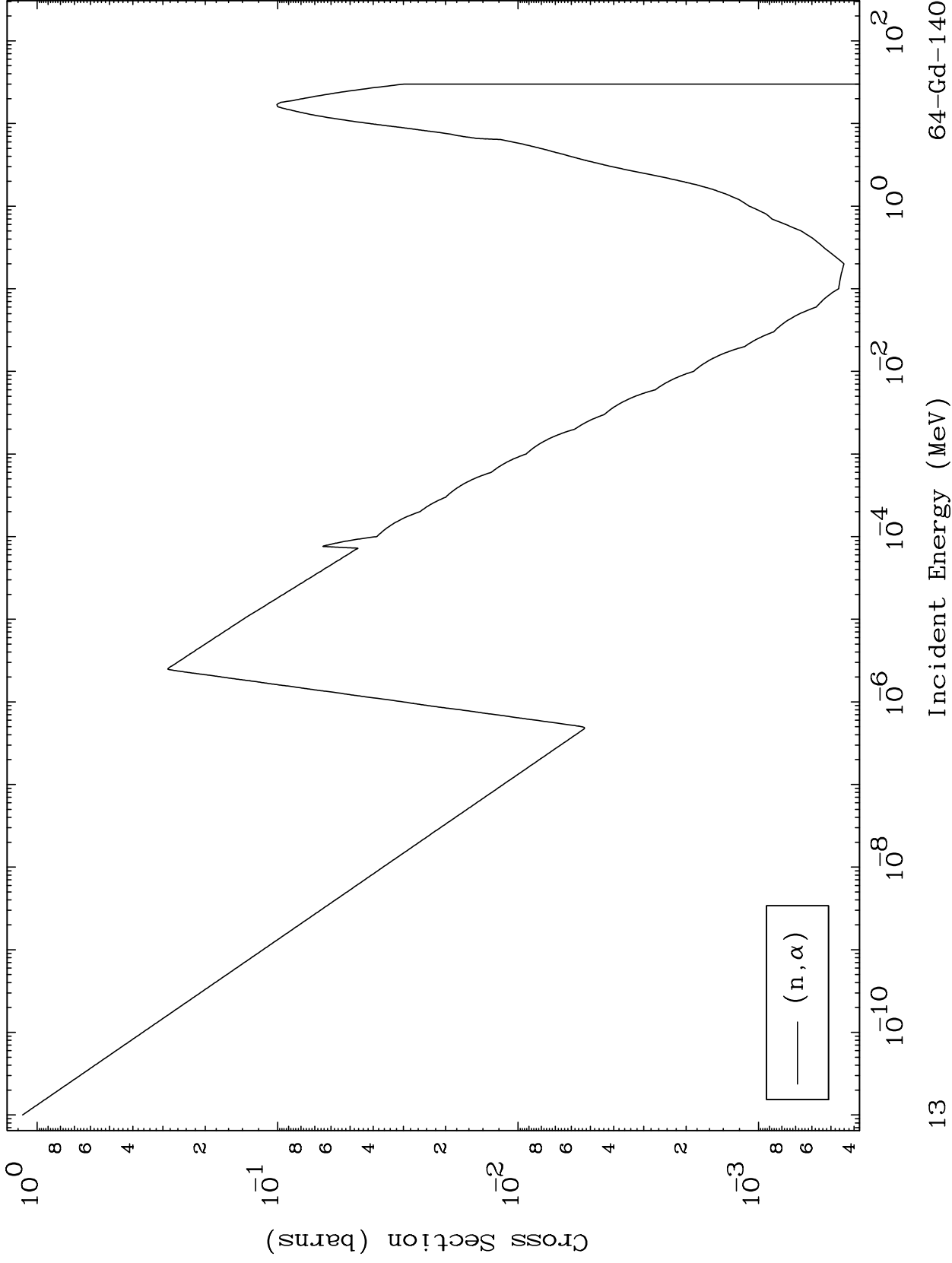
Incident Energy (MeV)

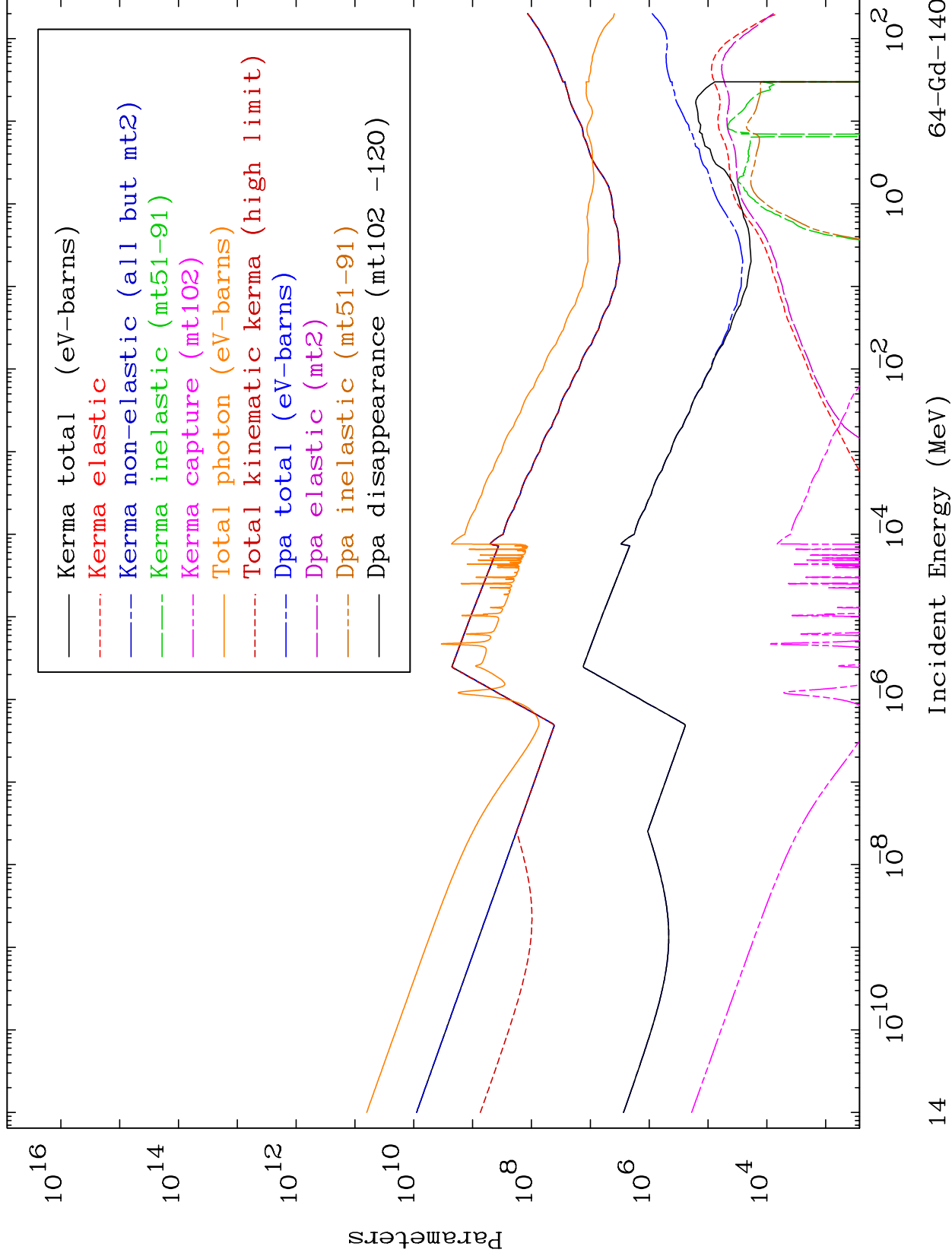
64-Gd-140

MAT 6389

(n,α) Levels
293 Kelvin Cross Sections

64-Gd-140

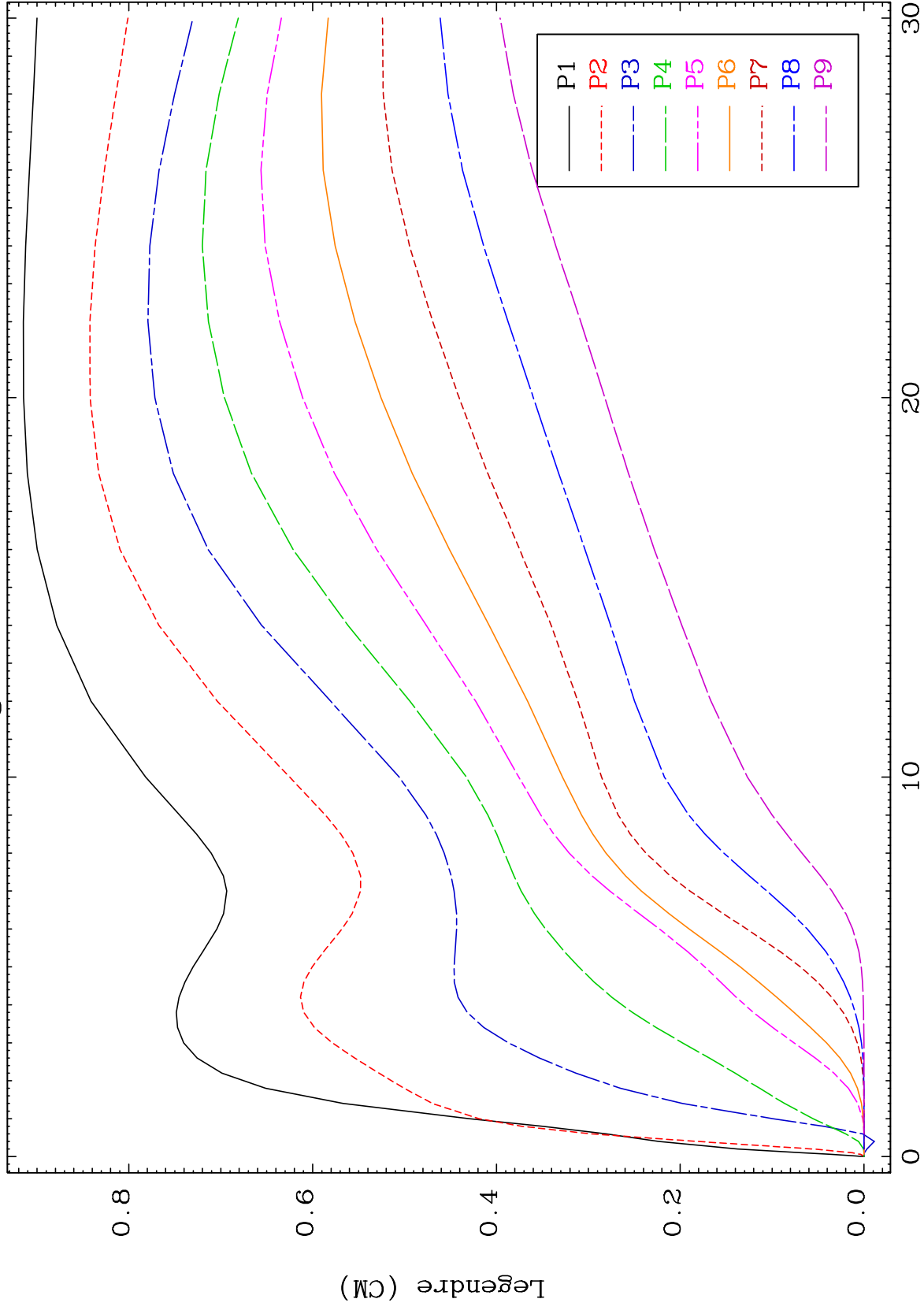




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Elastic Legendre Coefficients

64-Gd-140



15

Incident Energy (MeV)

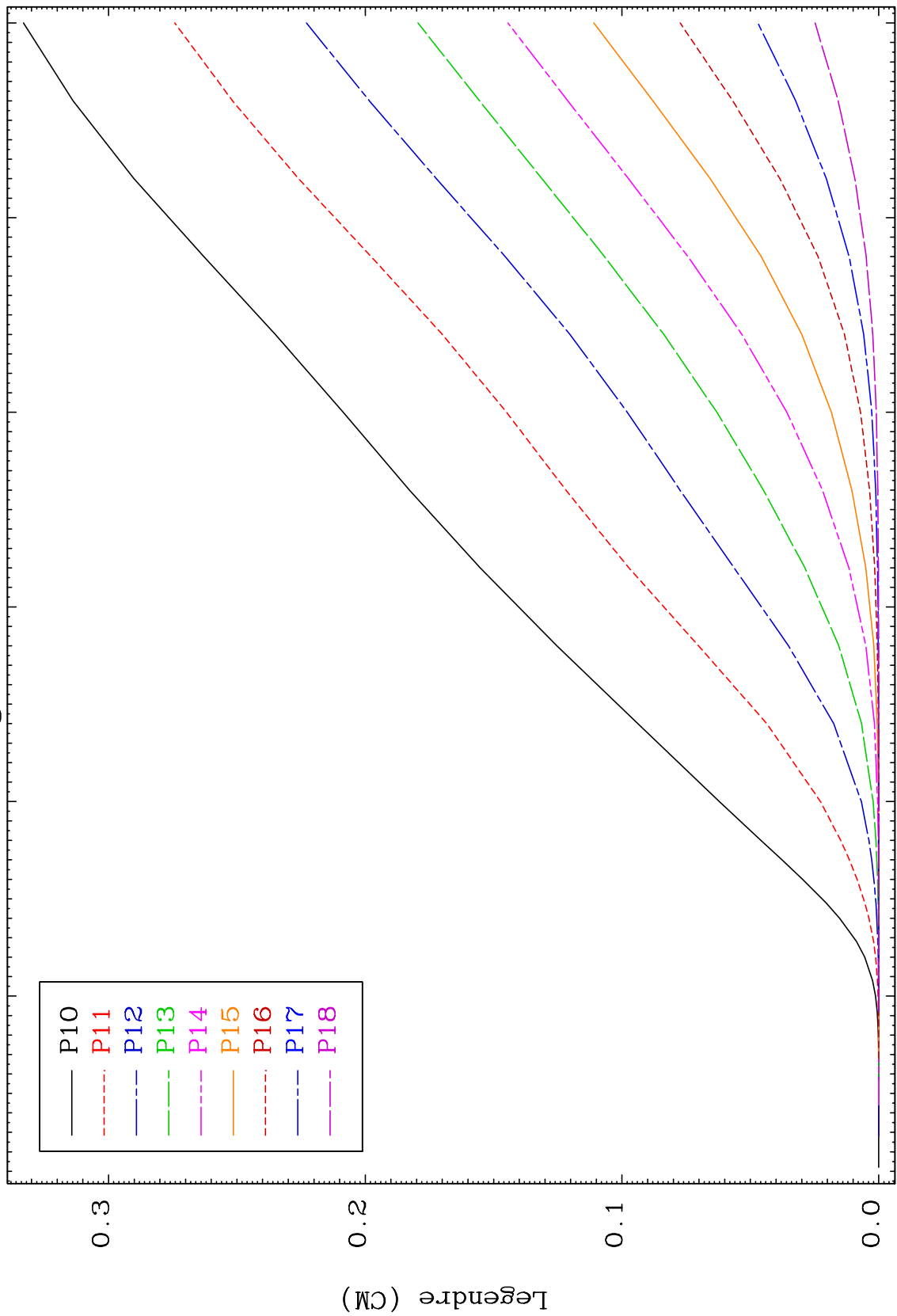
64-Gd-140

30

MAT 6389

Elastic Legendre Coefficients

64-Gd-140



16

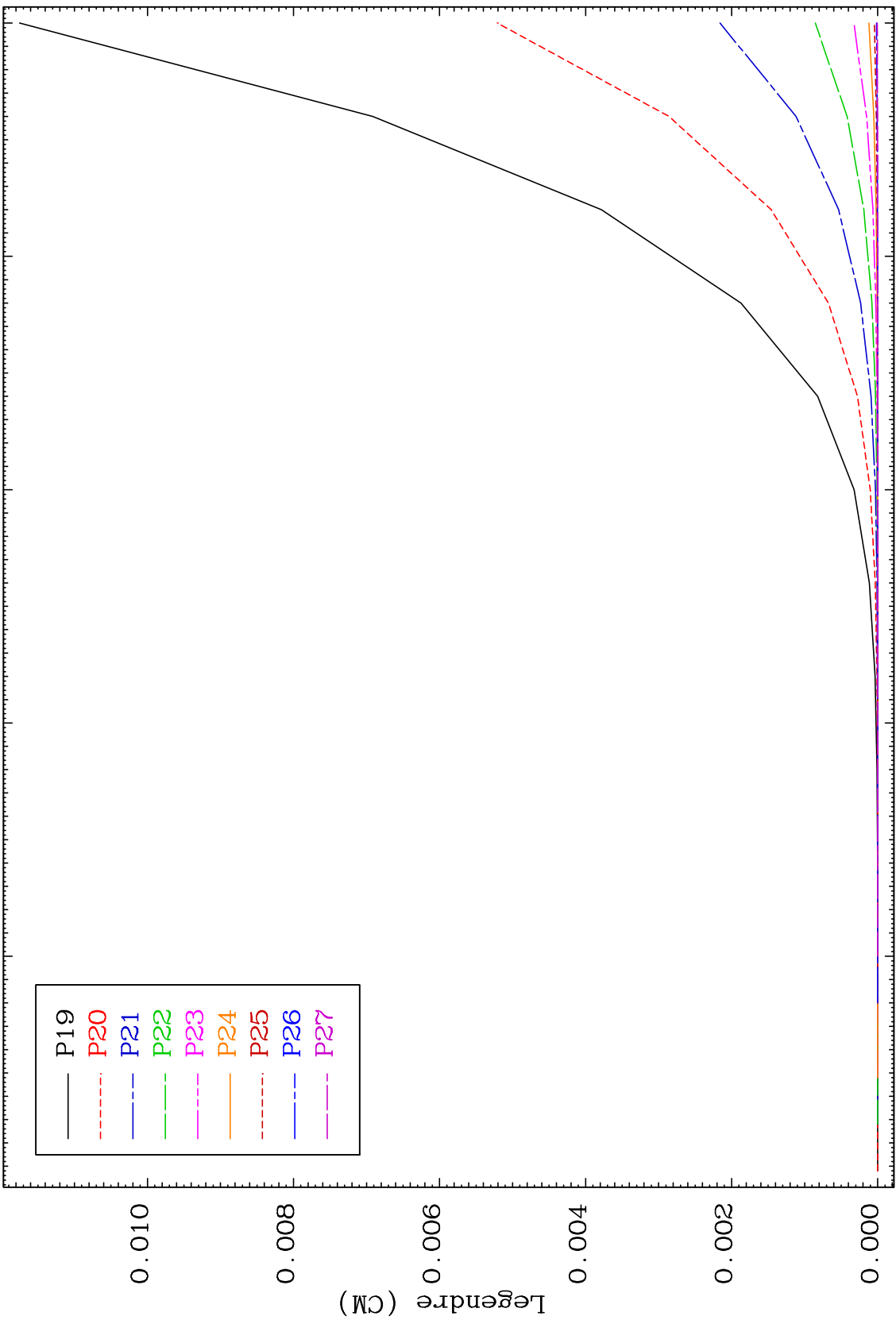
Incident Energy (MeV)

64-Gd-140

MAT 6389

Elastic Legendre Coefficients

64-Gd-140



17

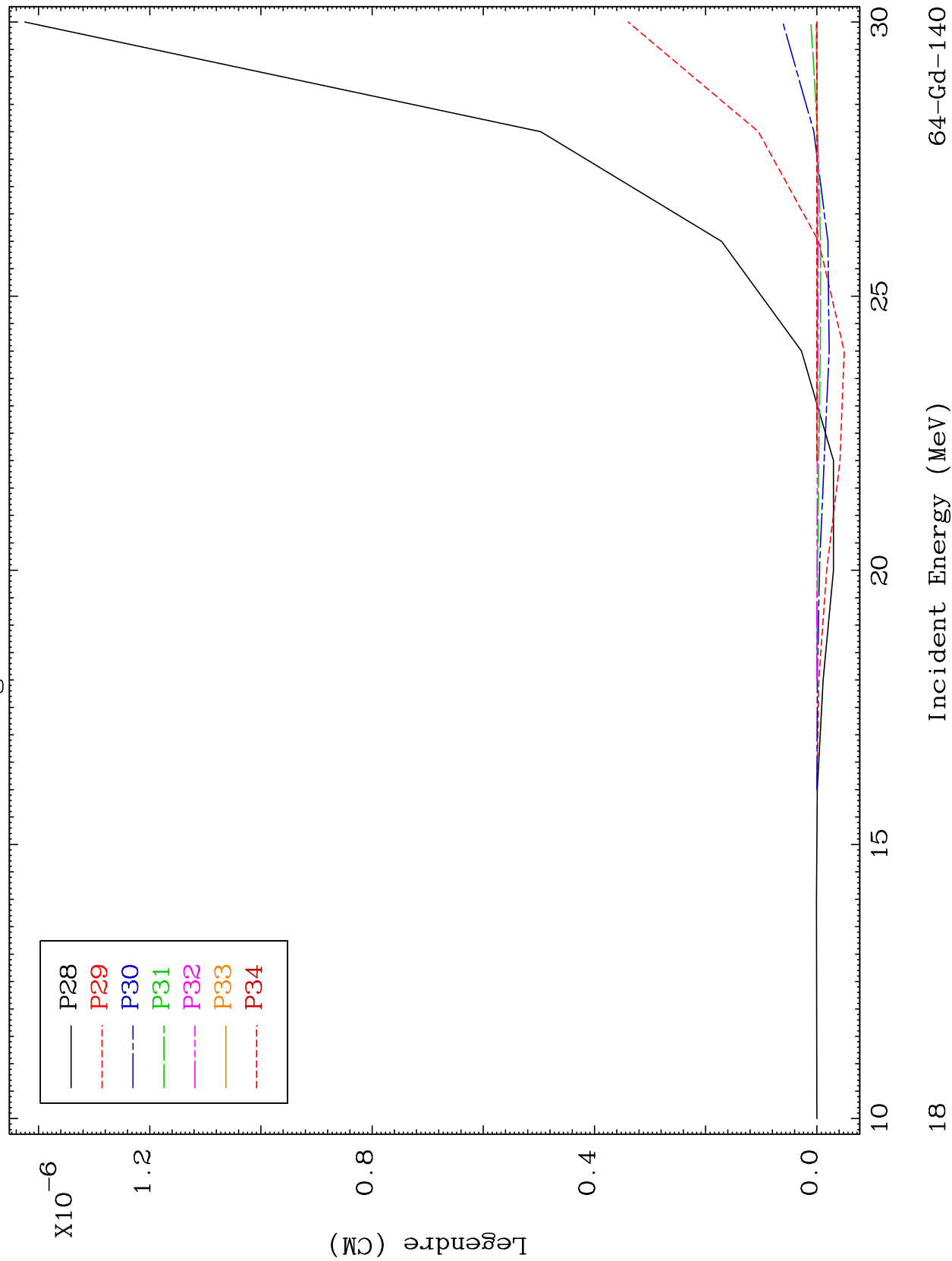
Incident Energy (MeV)

64-Gd-140

MAT 6389

Elastic Legendre Coefficients

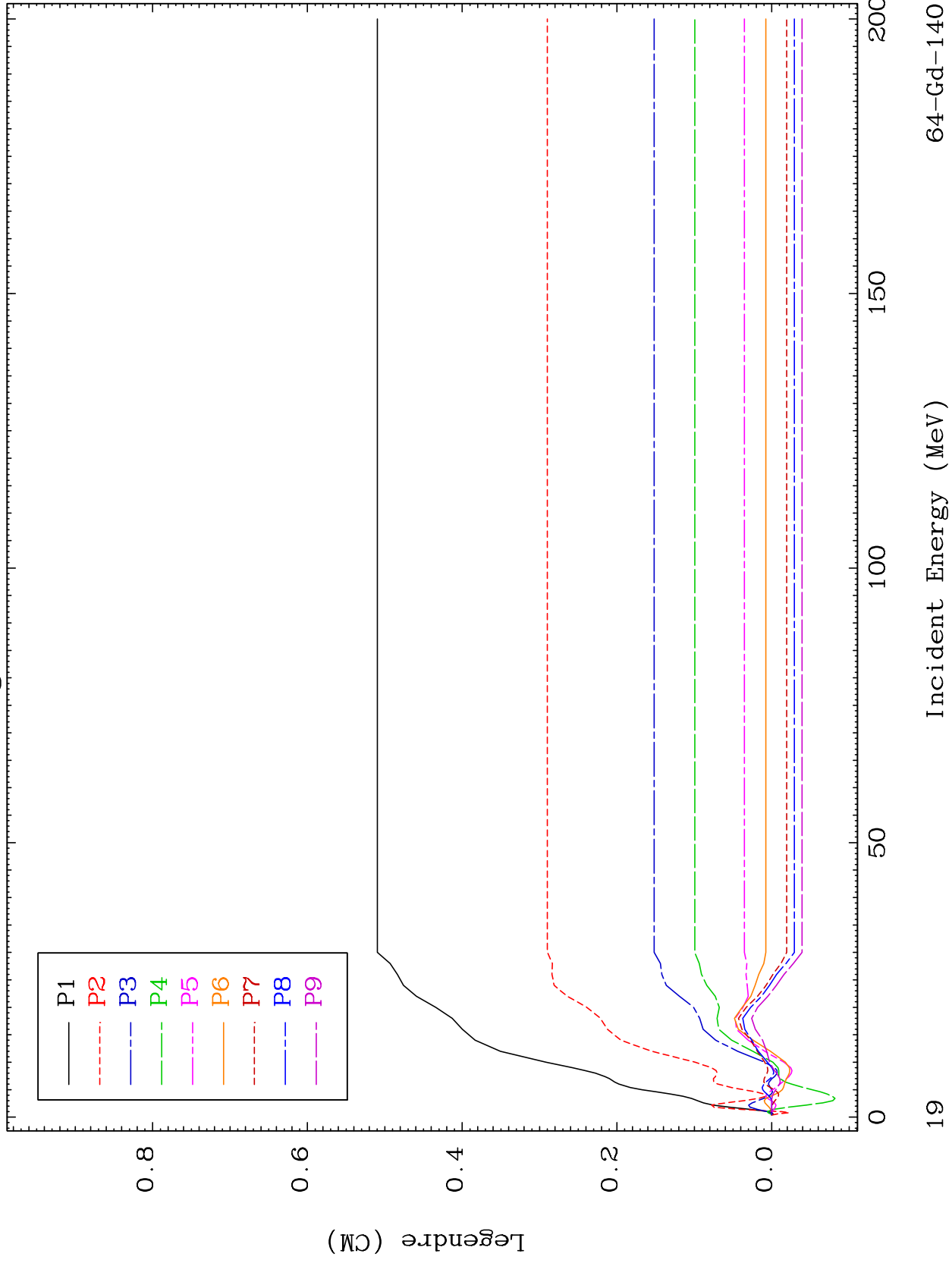
64-Gd-140



MAT 6389

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

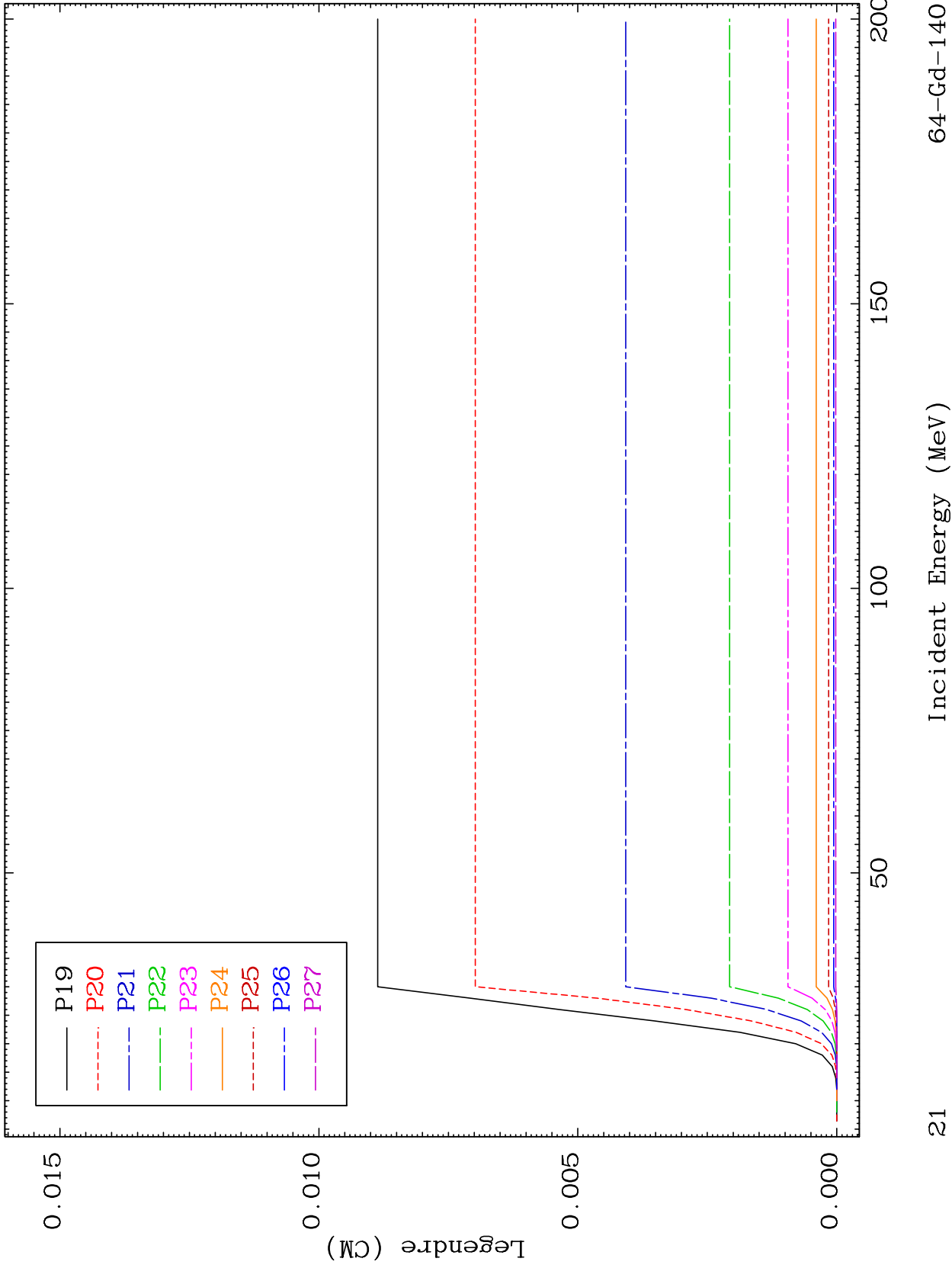
64-Gd-140



19

Incident Energy (MeV)

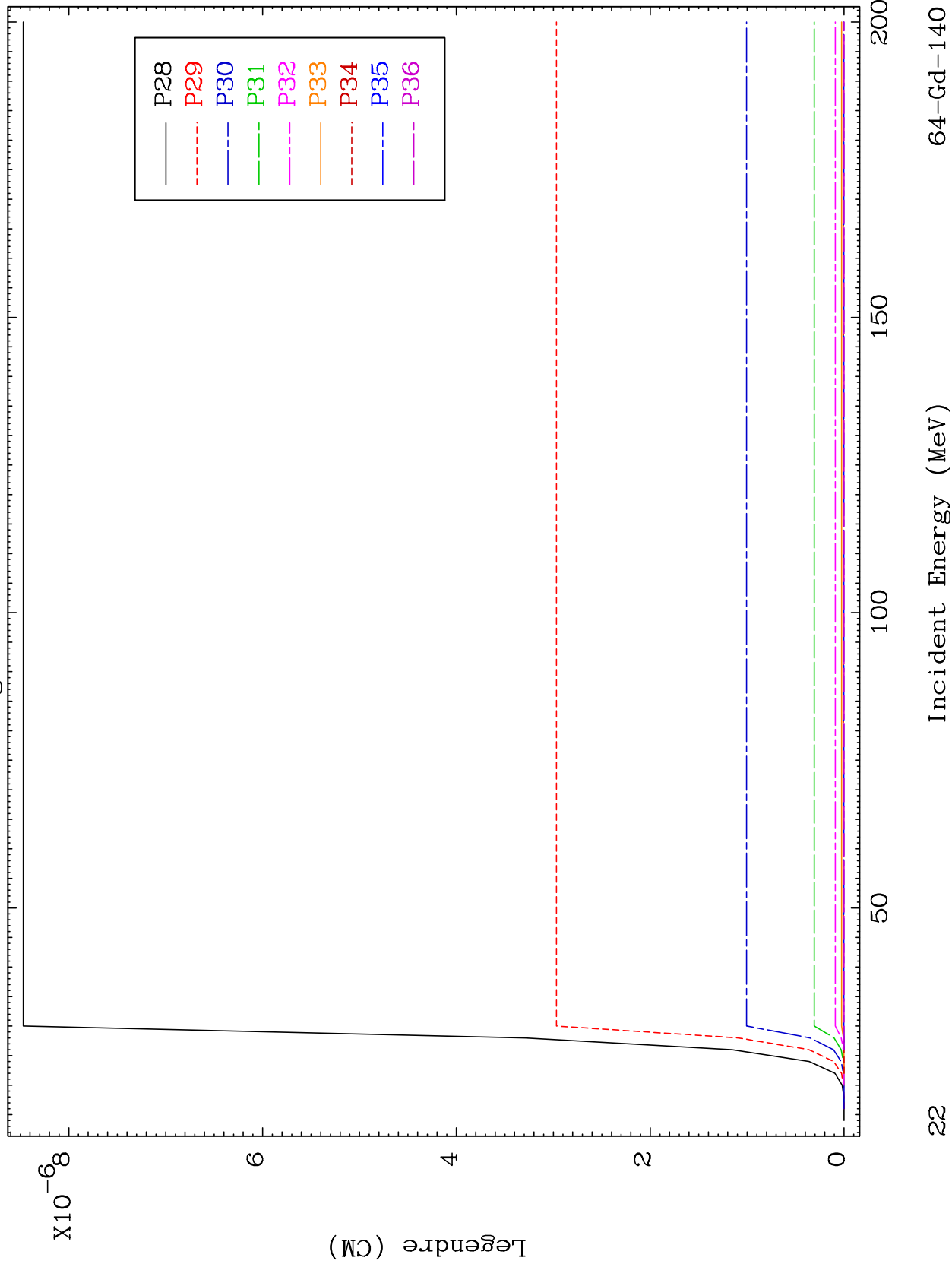
64-Gd-140



MAT 6389

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

64-Gd-140



22

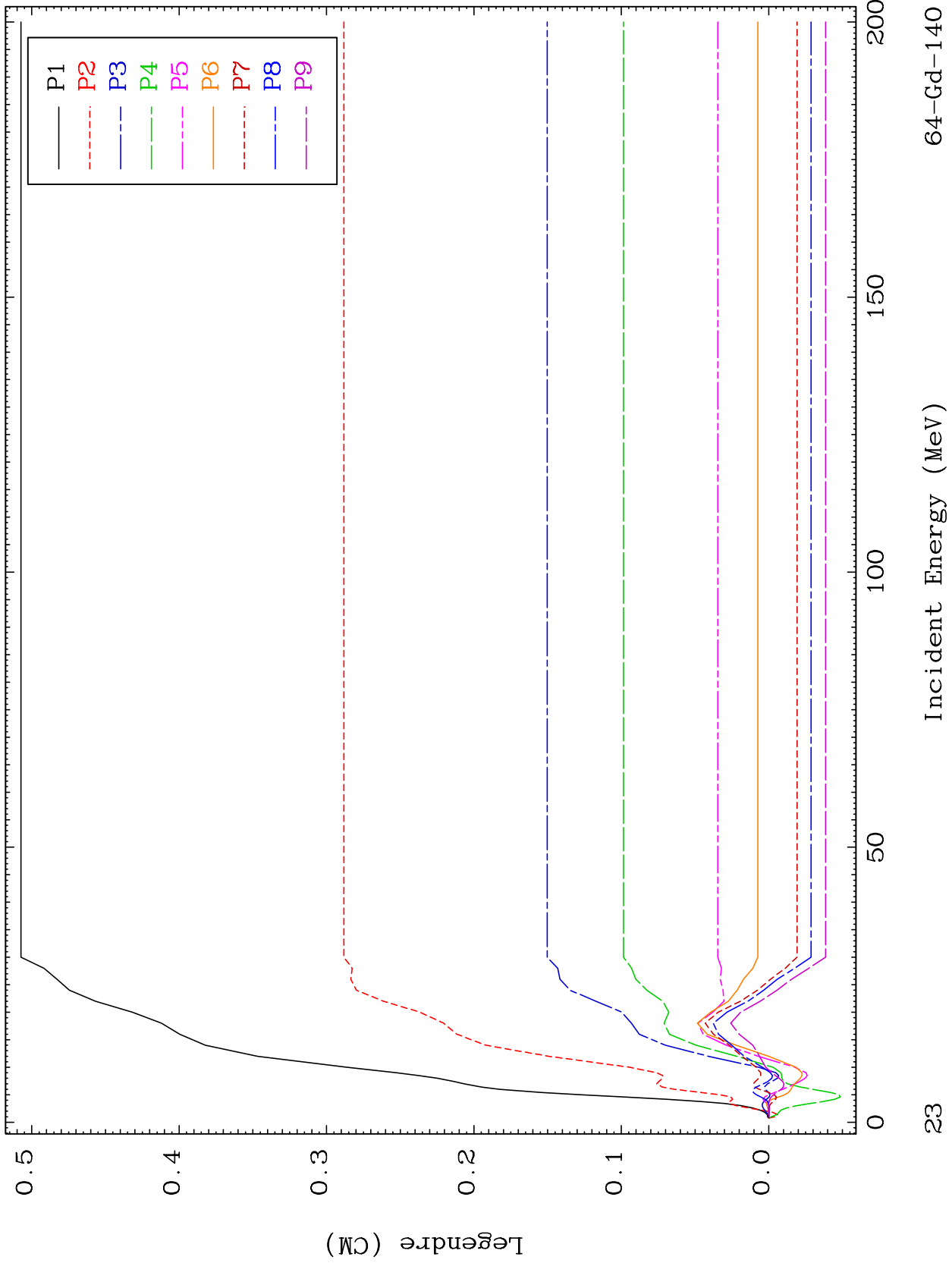
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140

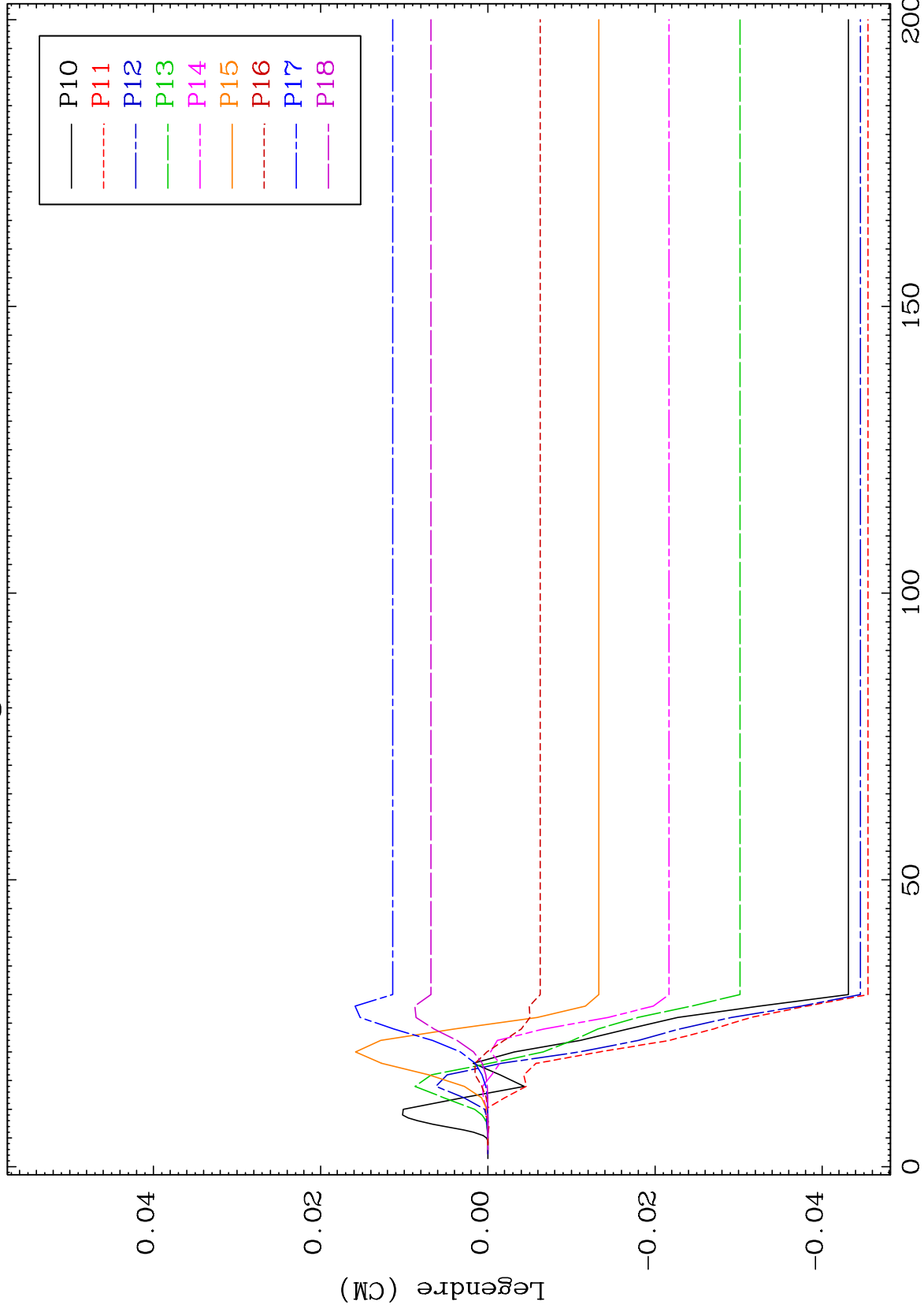


23

MAT 6389

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

64-Gd-140



64-Gd-140

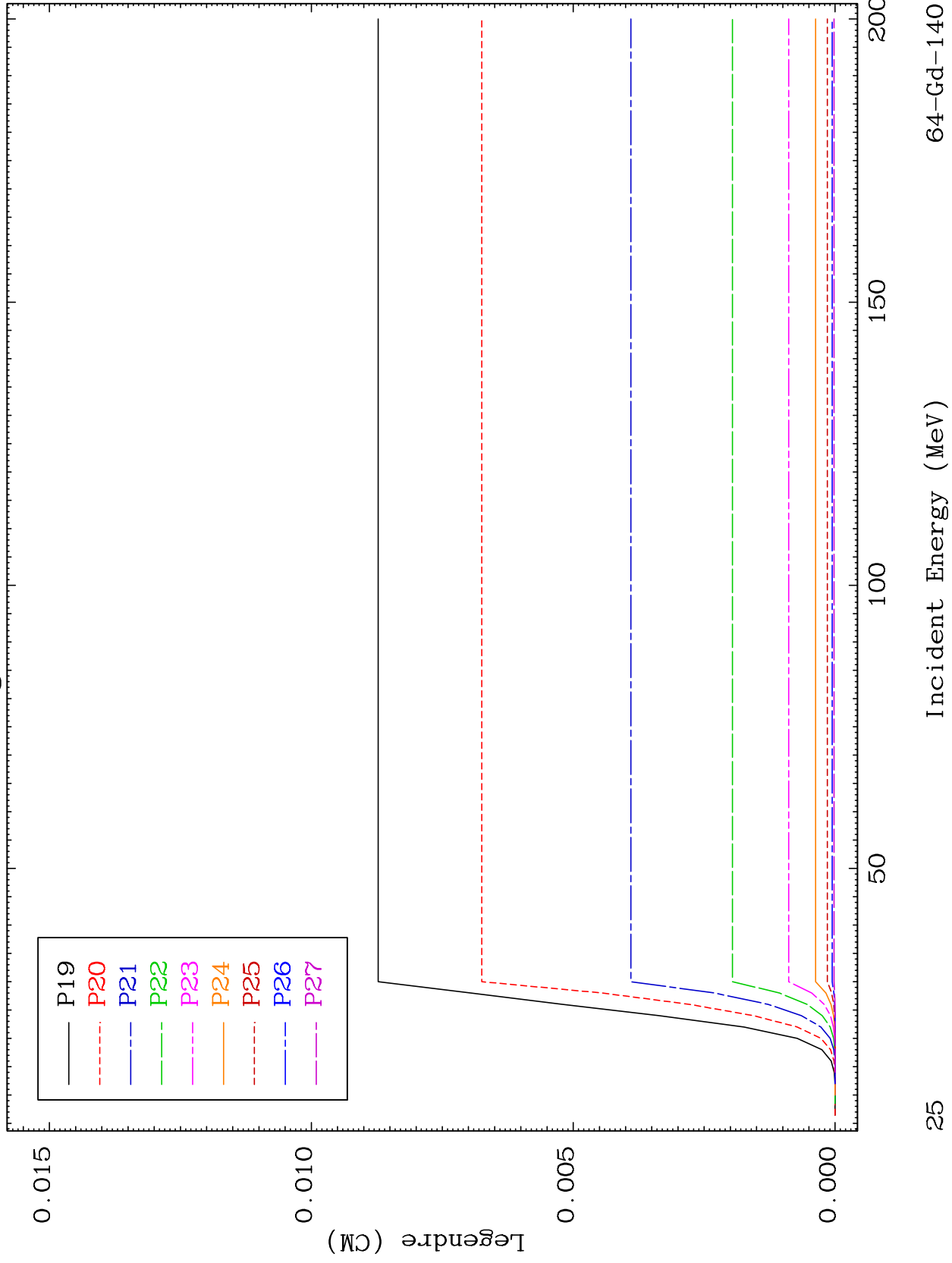
Incident Energy (MeV)

24

MAT 6389

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

64-Gd-140



25

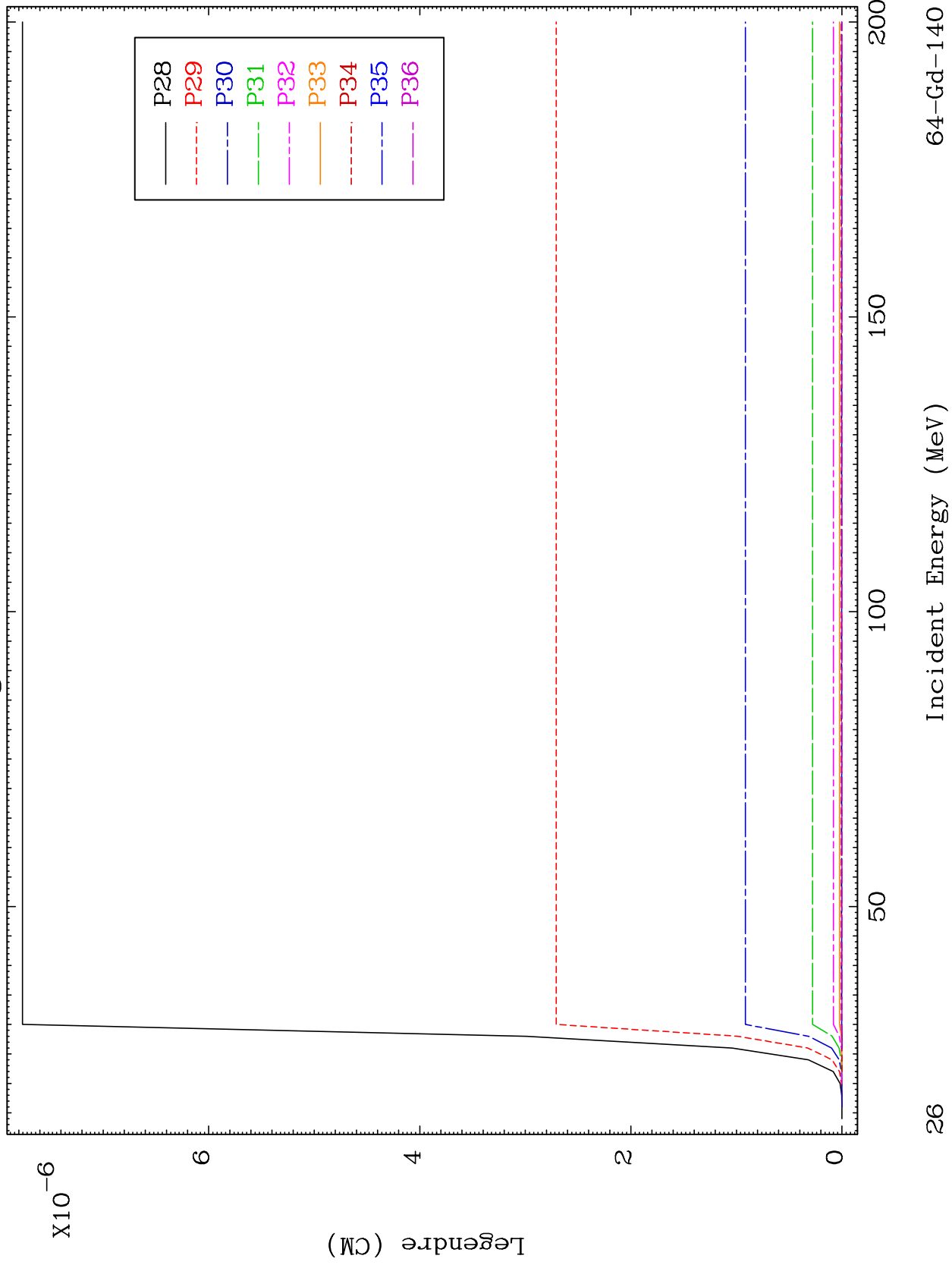
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



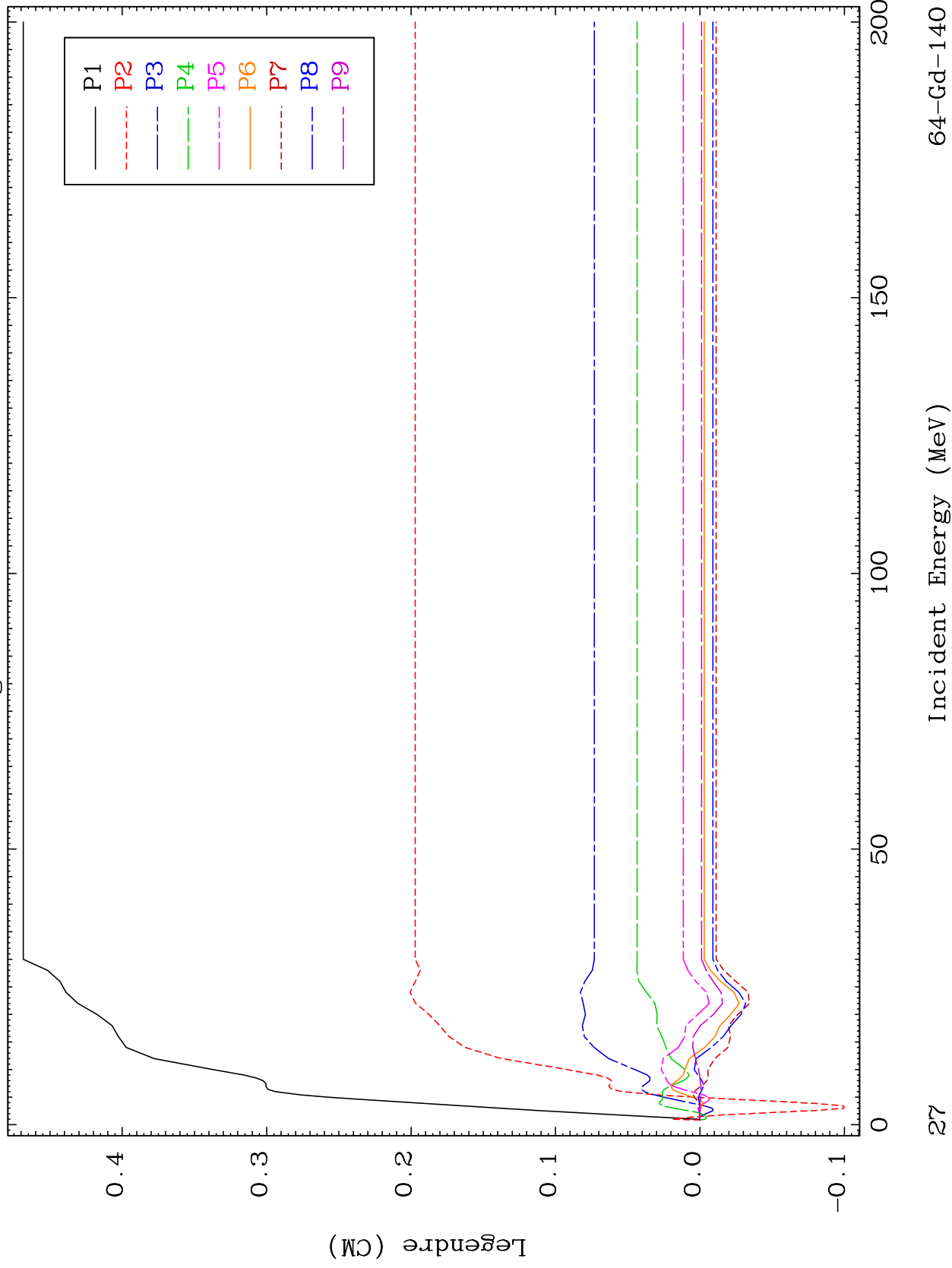
26

64-Gd-140

MAT 6389

MT= 53 (n,n') Level
Legendre Coefficients

64-Gd-140



64-Gd-140

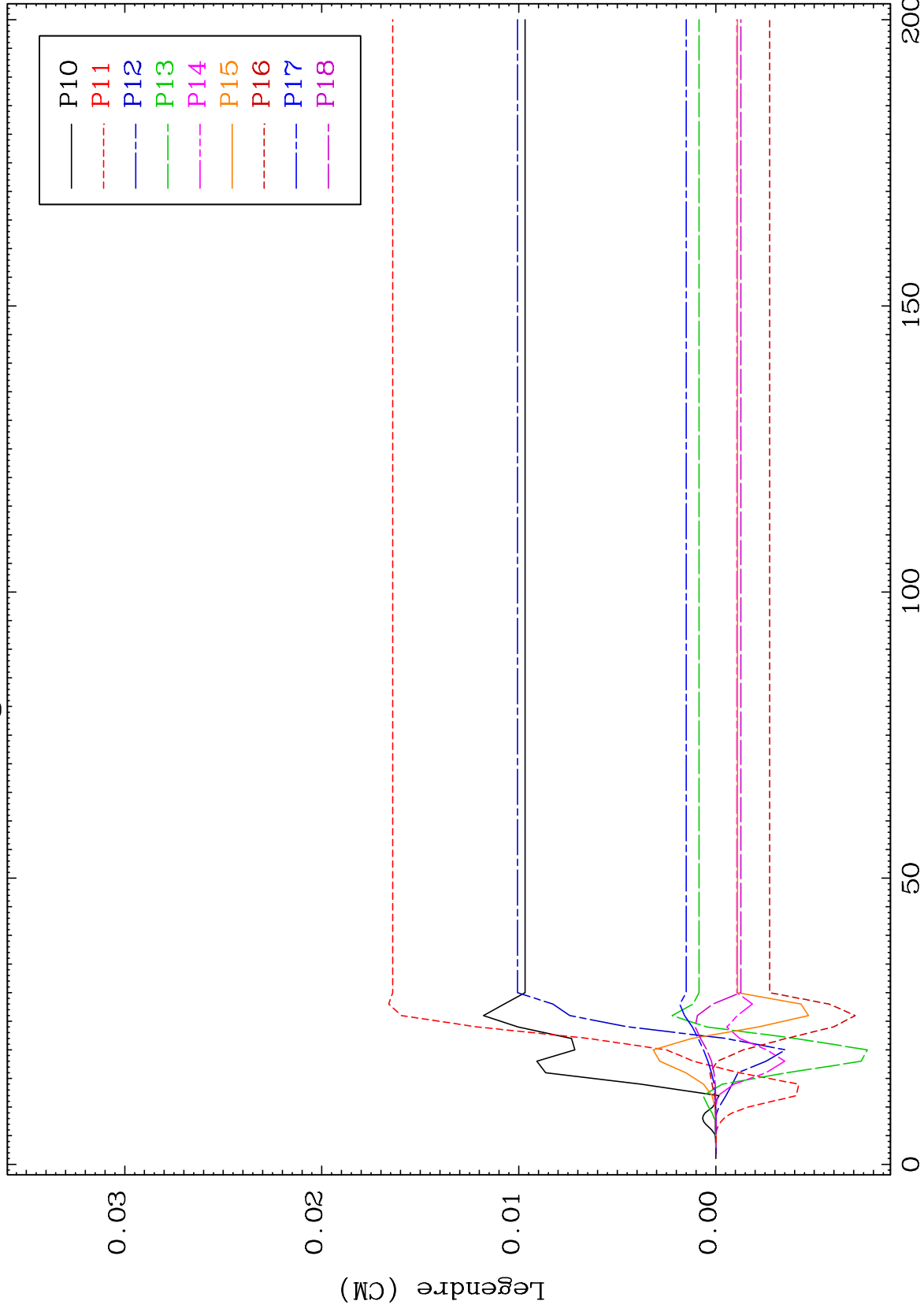
Incident Energy (MeV)

27

MAT 6389

MT= 53 (n,n') Level
Legendre Coefficients

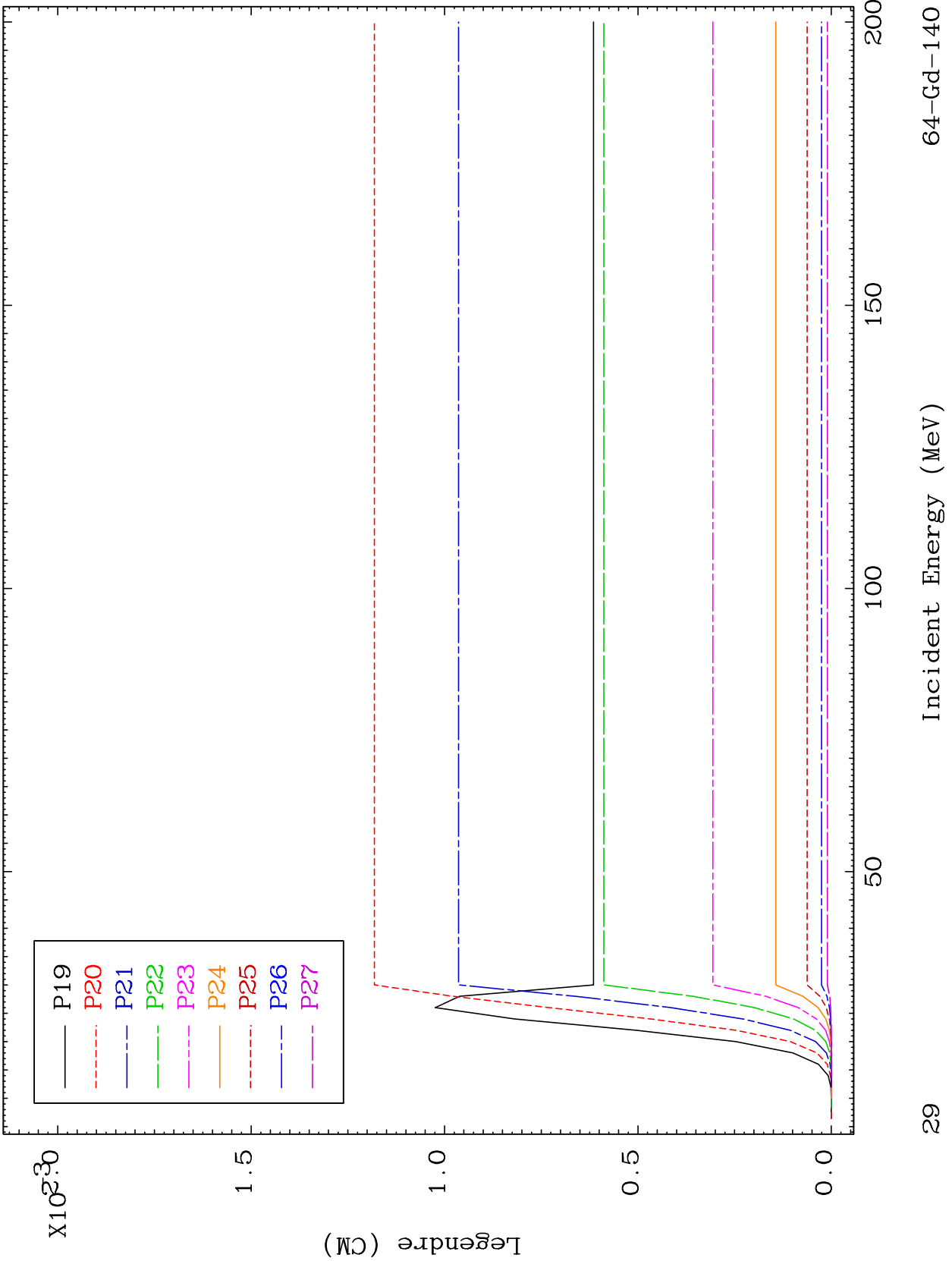
64-Gd-140



28

Incident Energy (MeV)

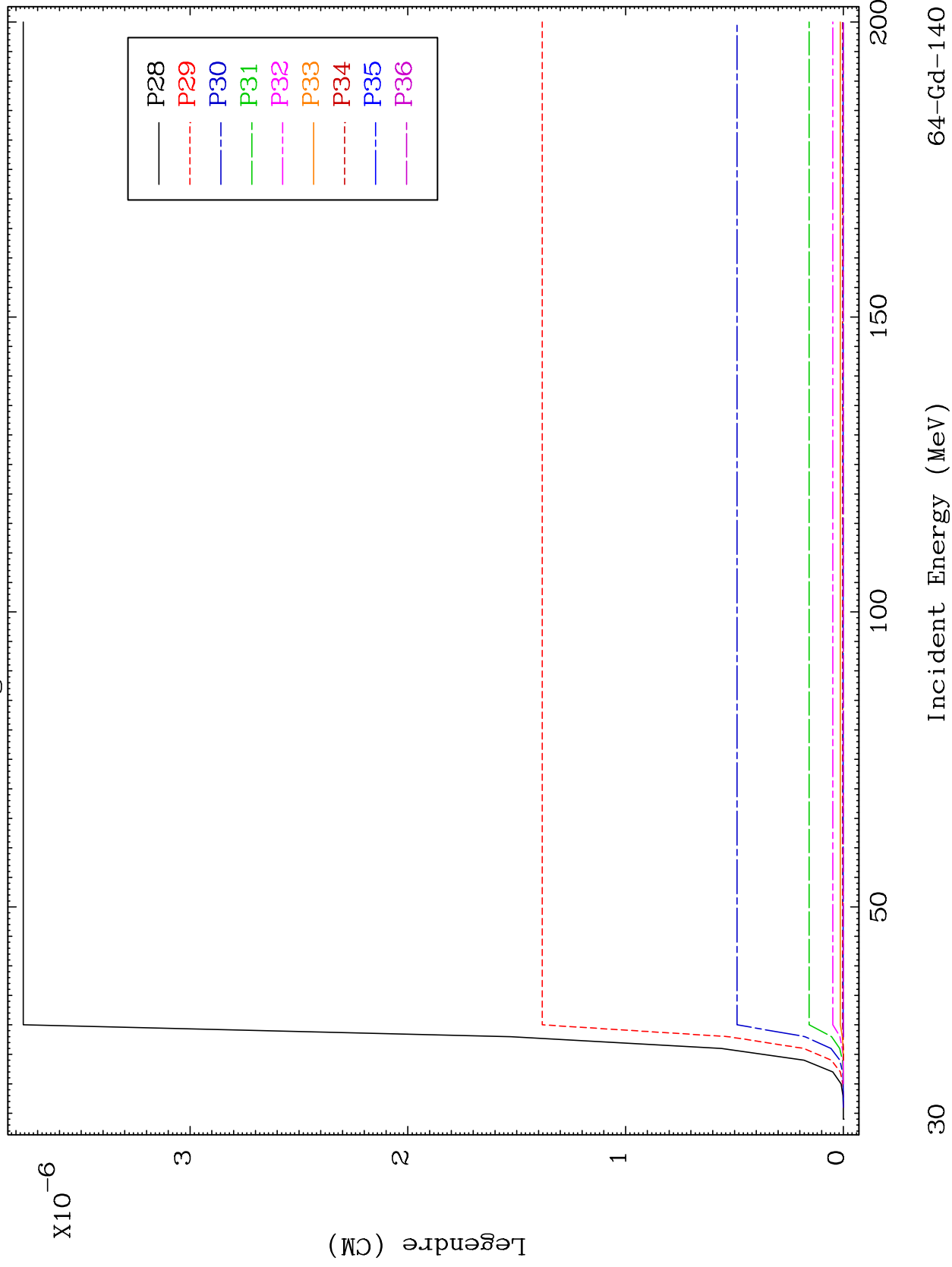
64-Gd-140



MAT 6389

MT= 53 (n,n') Level
Legendre Coefficients

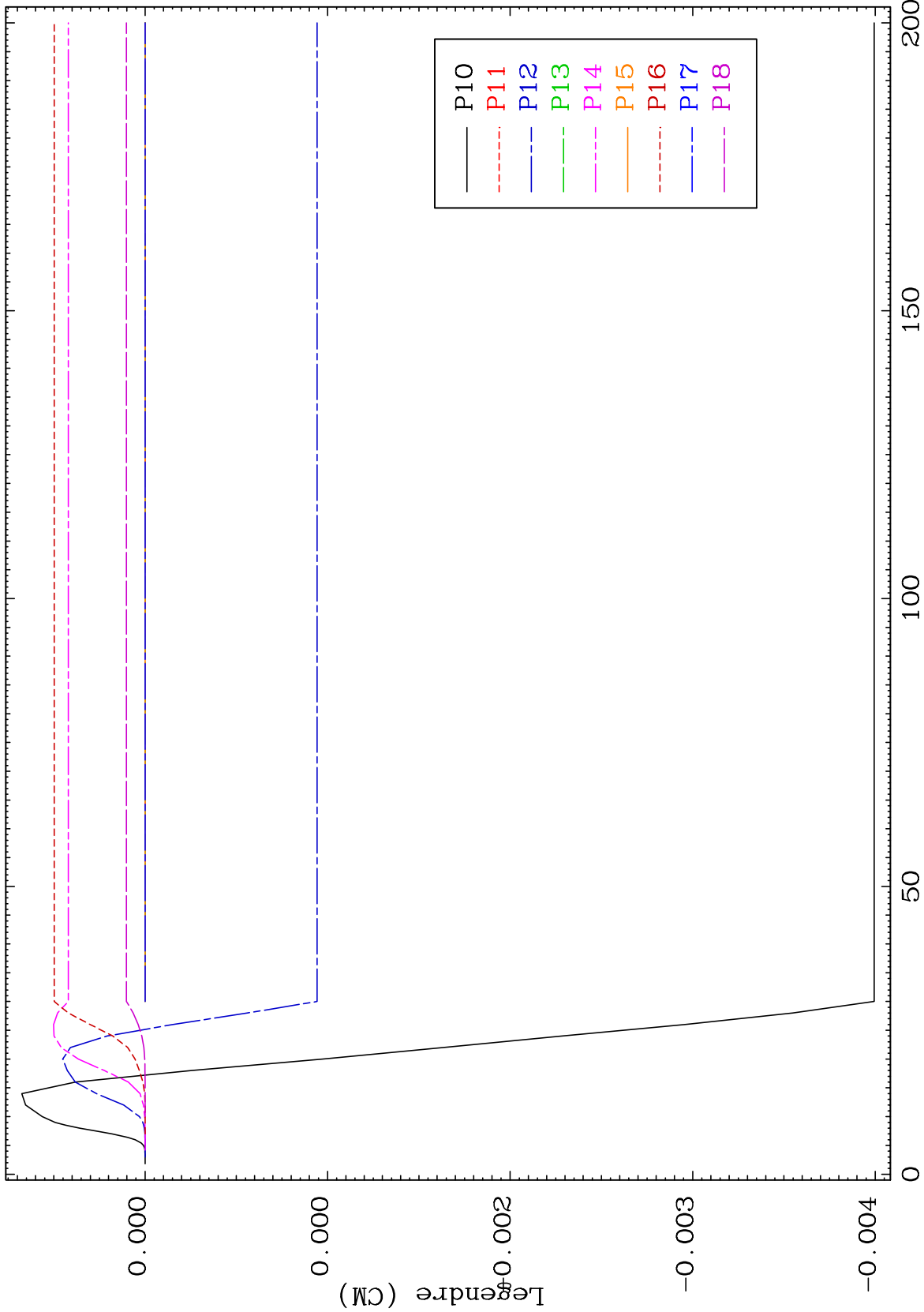
64-Gd-140



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MT= 54 (n,n') Level
Legendre Coefficients

64-Gd-140



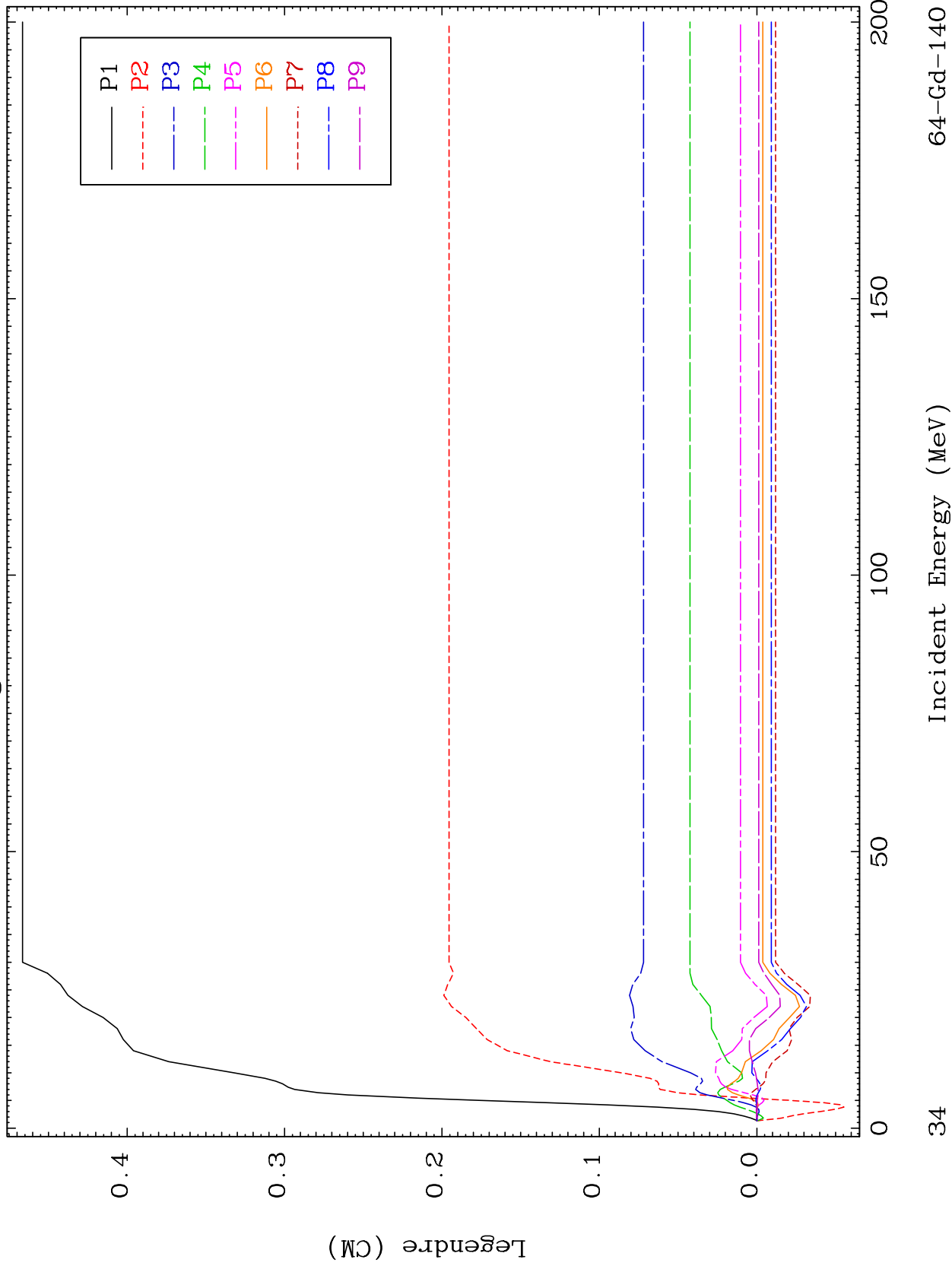
32

64-Gd-140

MAT 6389

MT= 55 (n,n') Level
Legendre Coefficients

64-Gd-140



64-Gd-140

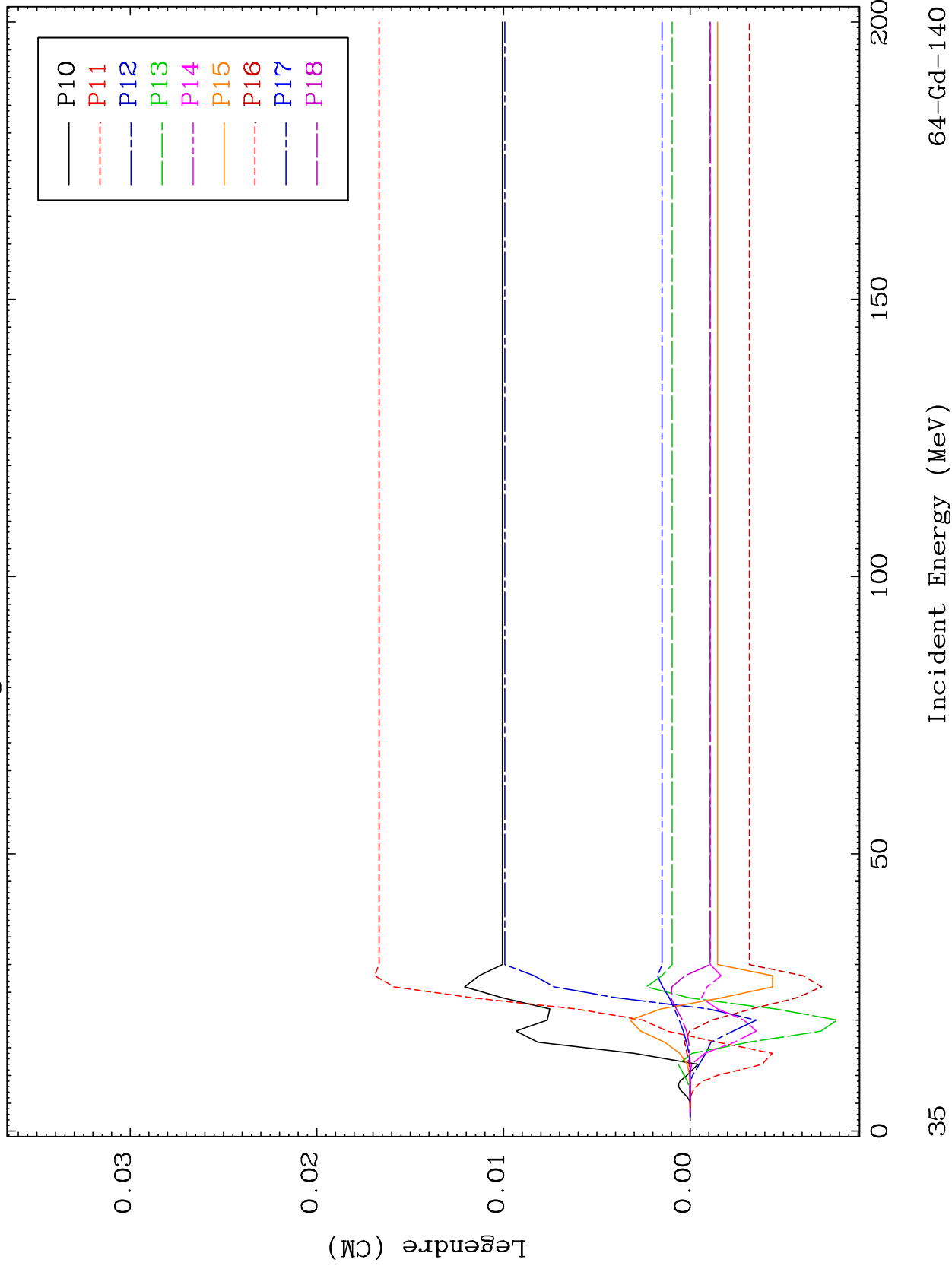
Incident Energy (MeV)

34

MAT 6389

MT= 55 (n,n') Level
Legendre Coefficients

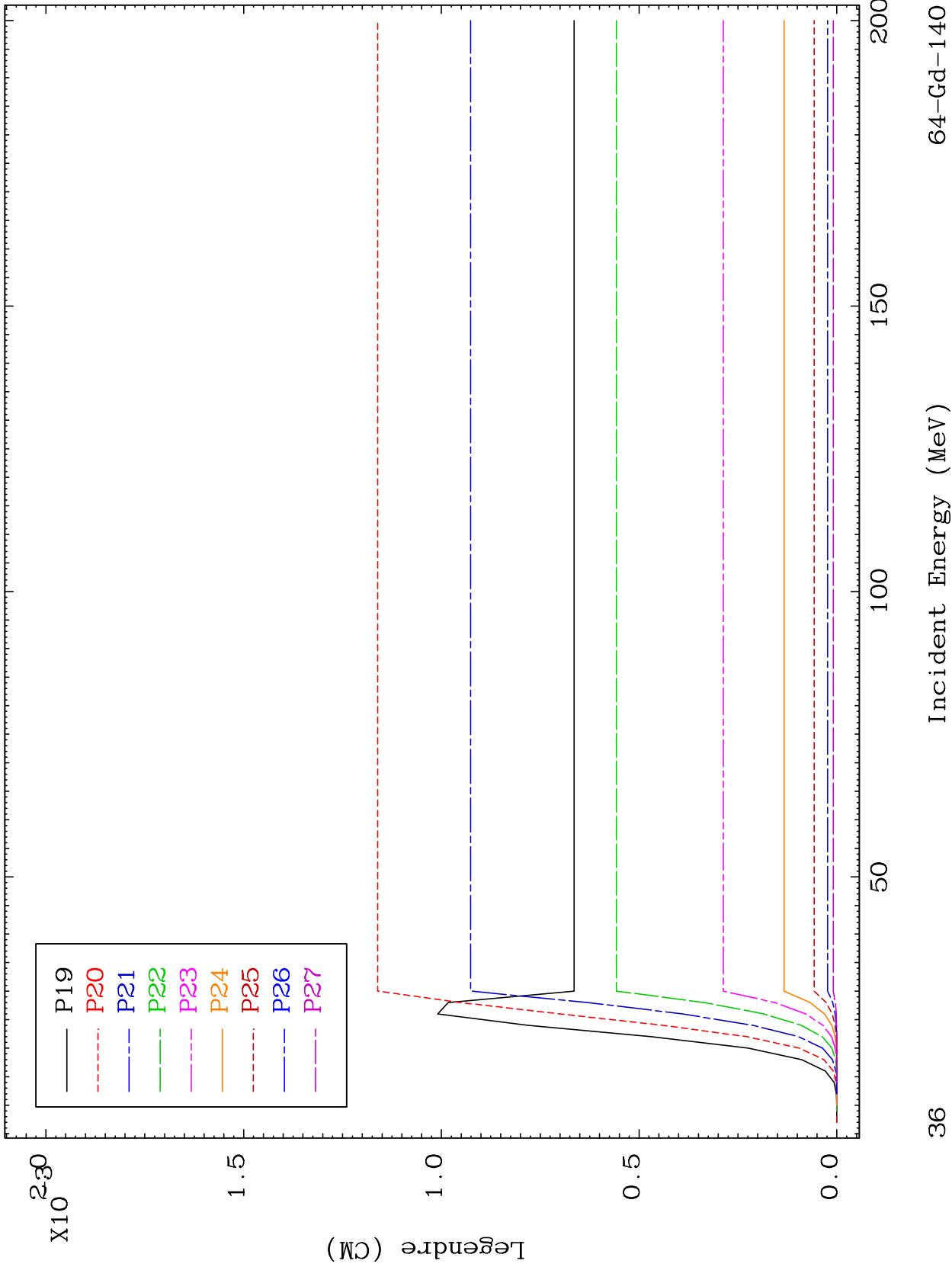
64-Gd-140



64-Gd-140

Incident Energy (MeV)

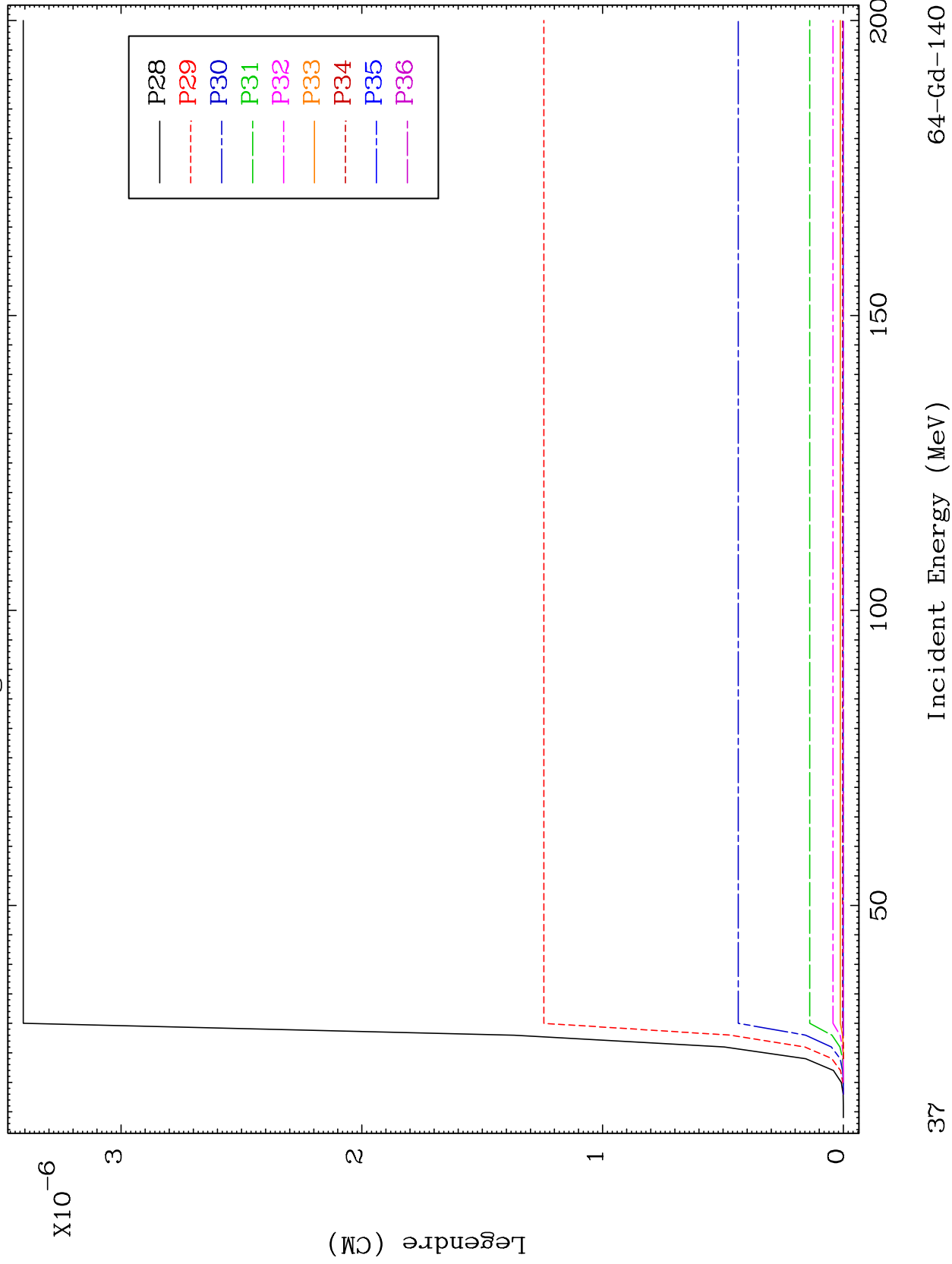
35



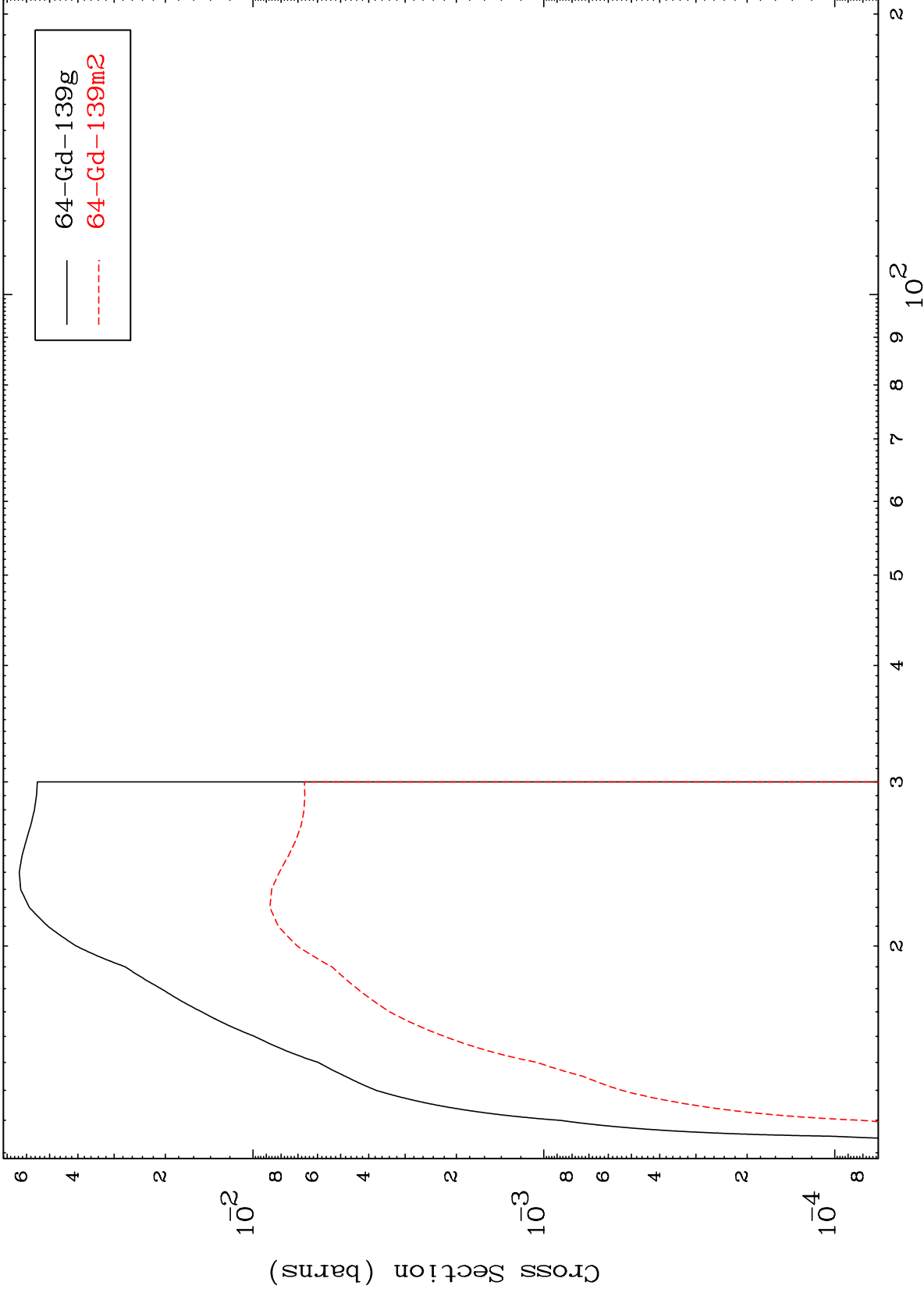
MAT 6389

MT= 55 (n,n') Level
Legendre Coefficients

64-Gd-140



Radionuclide Production Cross Section



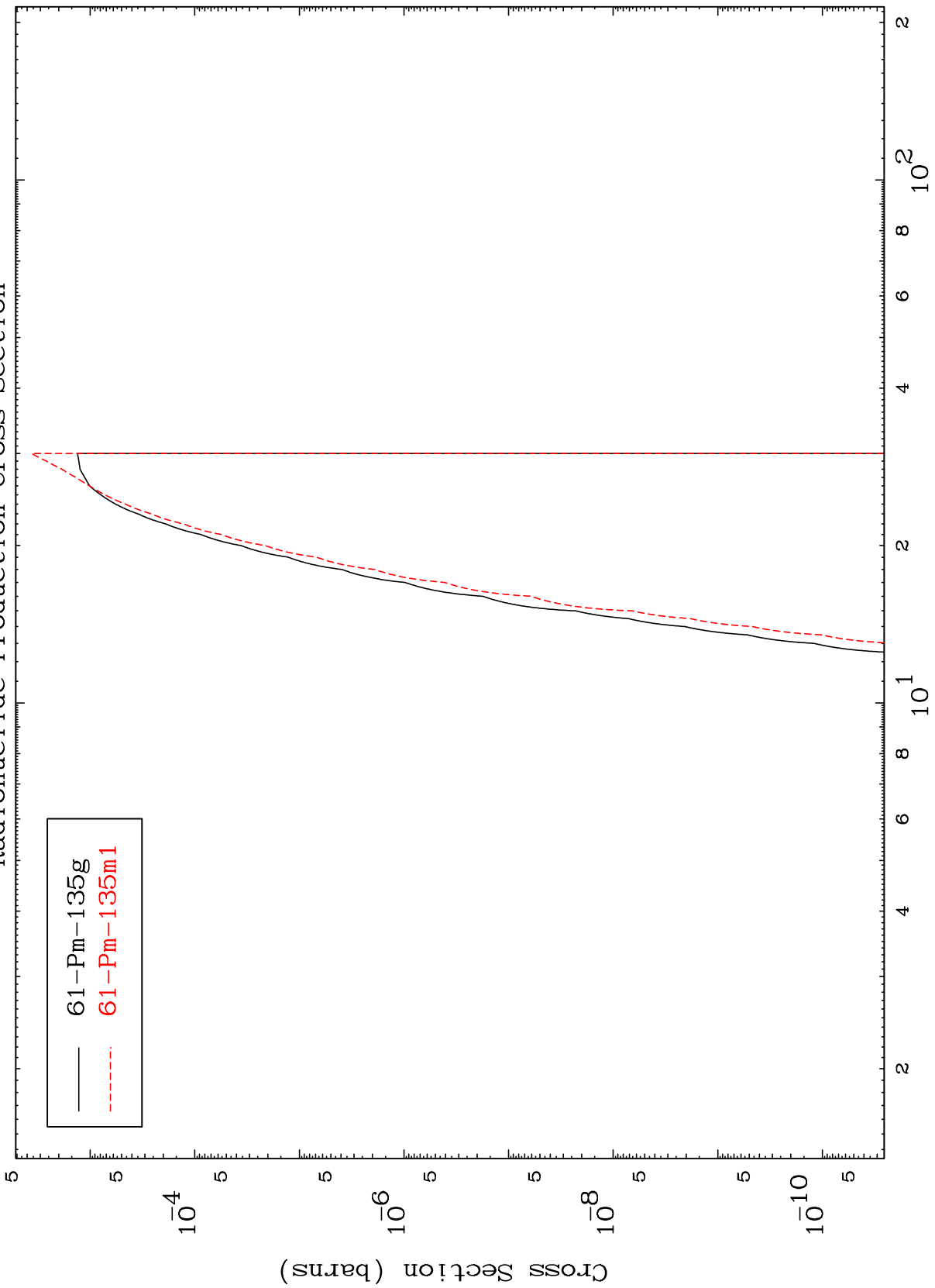
64-Gd-139g
64-Gd-139m2

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(n,n') p α

64-Gd-140

Radionuclide Production Cross Section



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

39

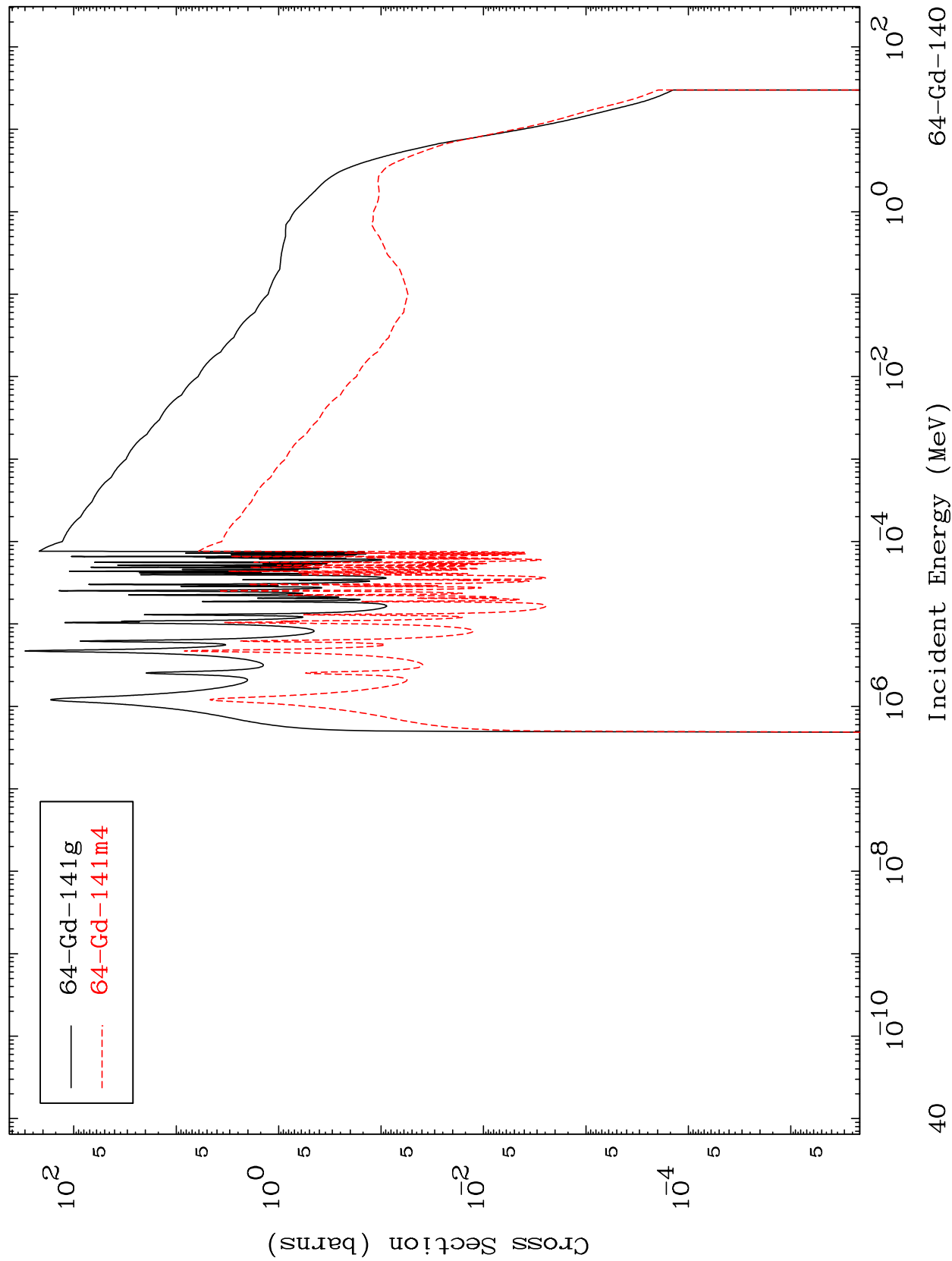
Incident Energy (MeV)

64-Gd-140

MAT 6389

64-Gd-140

(n, γ)
Radionuclide Production Cross Section

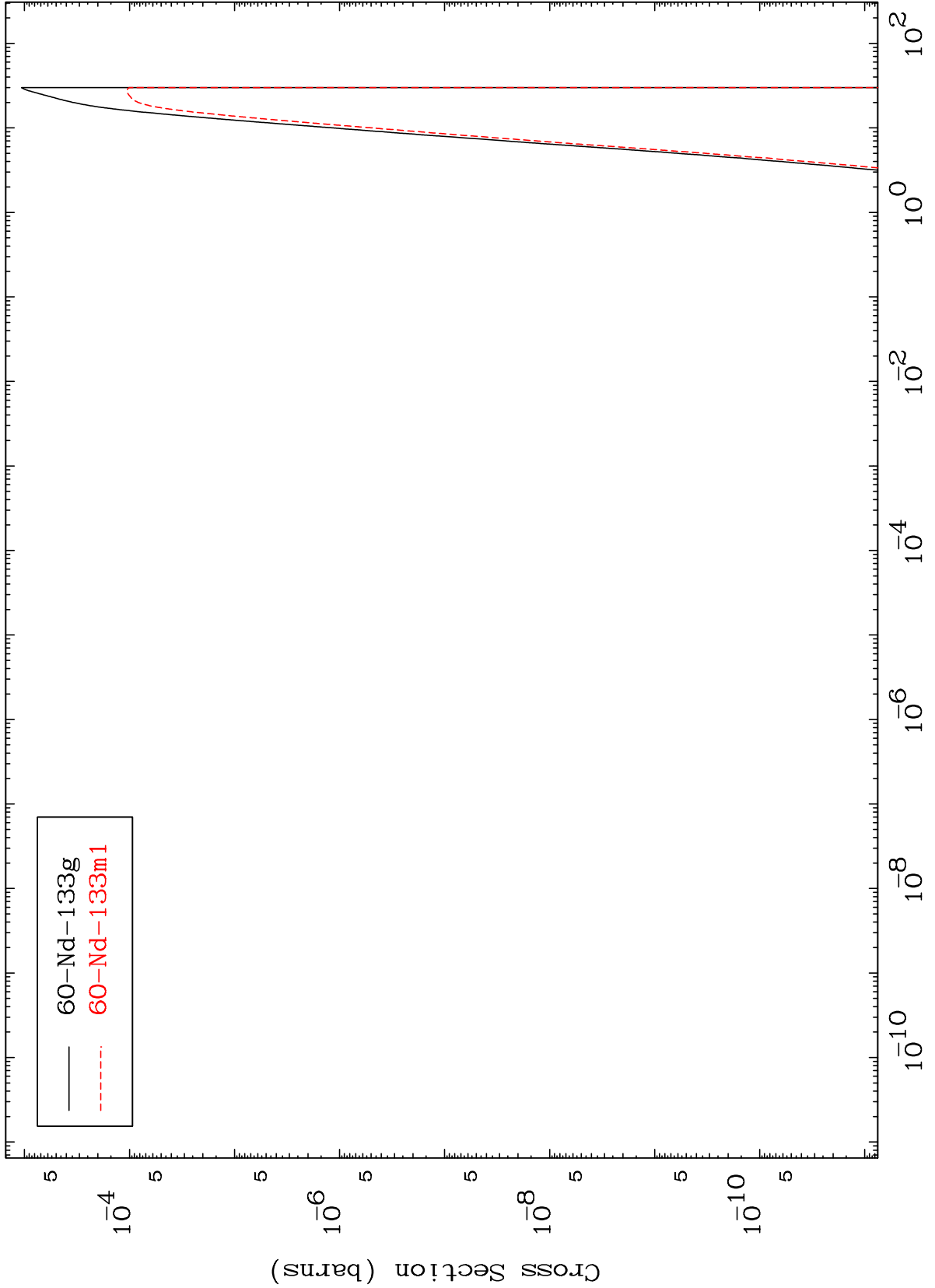


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(n,2α)

64-Gd-140

Radionuclide Production Cross Section

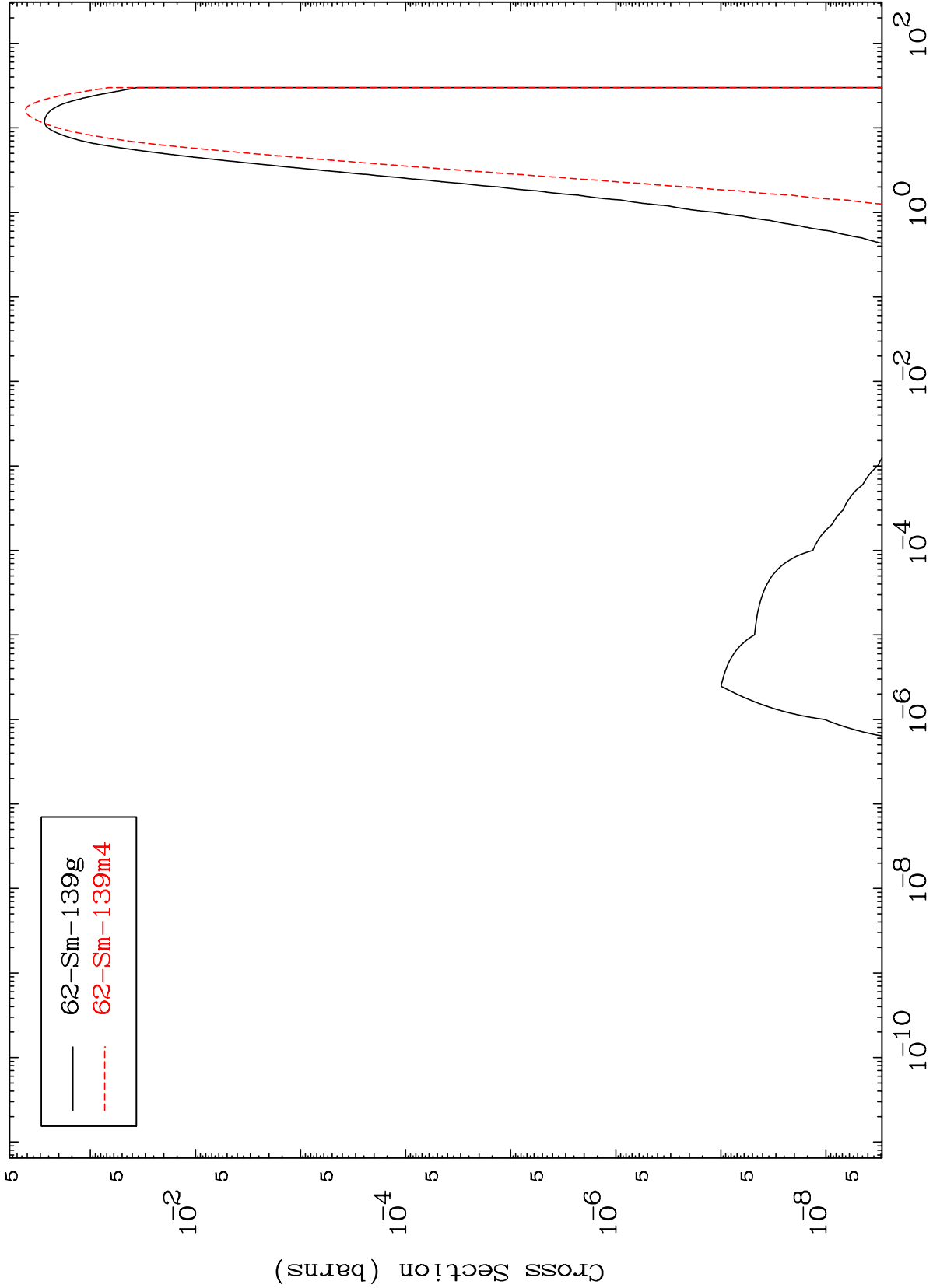


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(n,2p)

64-Gd-140

Radionuclide Production Cross Section



42

Incident Energy (MeV)

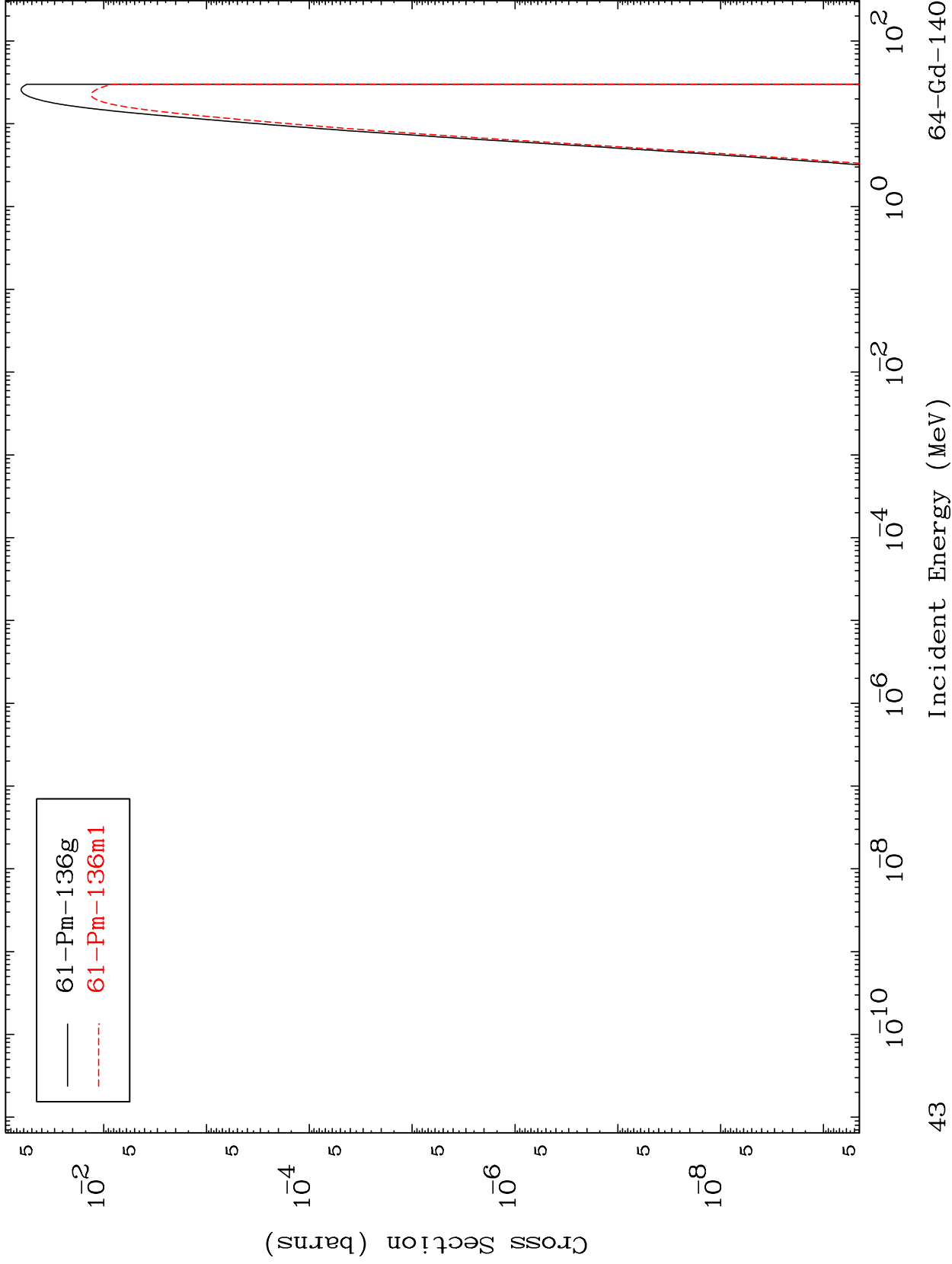
64-Gd-140

MAT 6389

(n,p) α

64-Gd-140

Radionuclide Production Cross Section

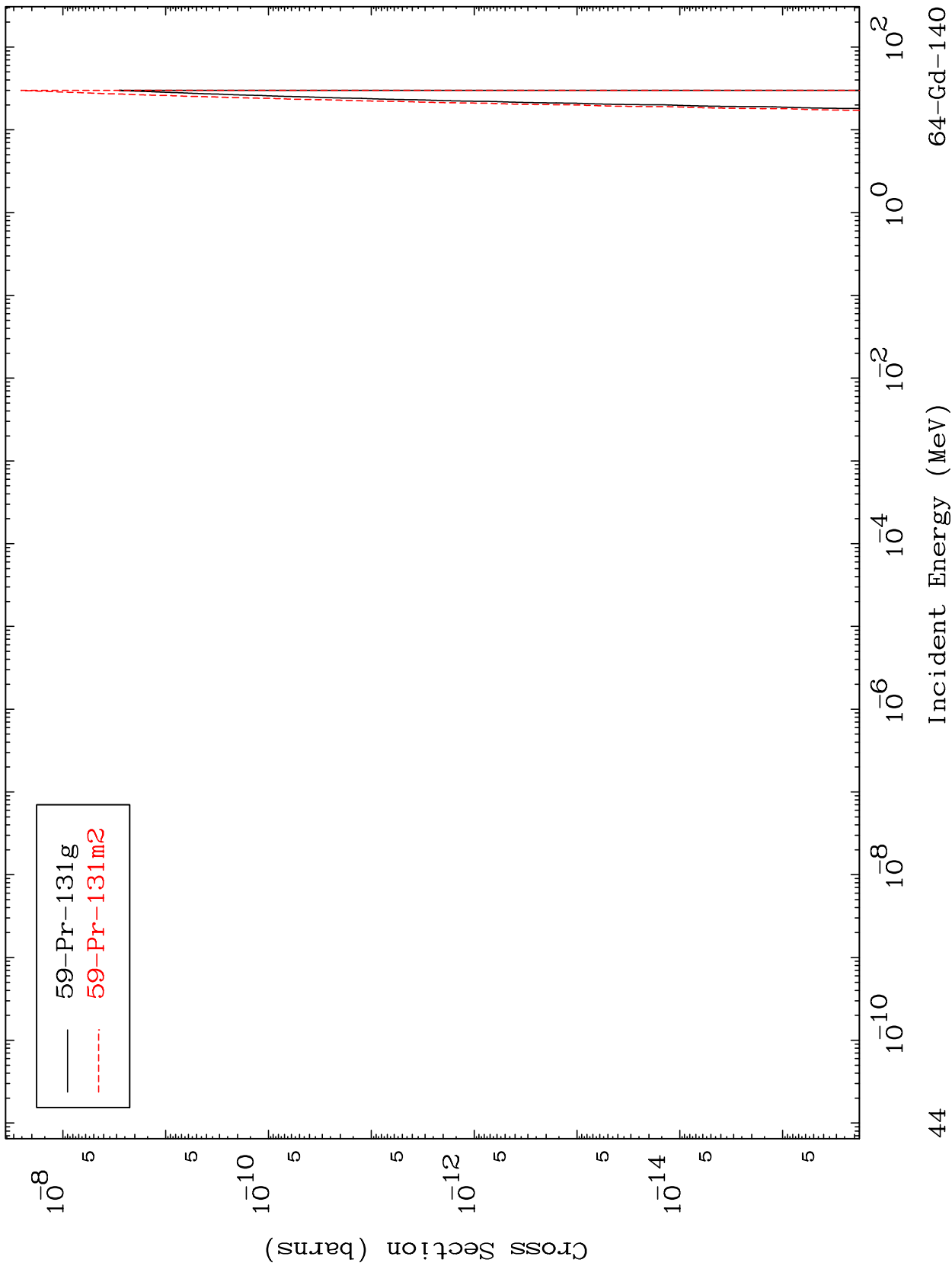


MAT 6389

(n,d) 2 α

64-Gd-140

Radionuclide Production Cross Section

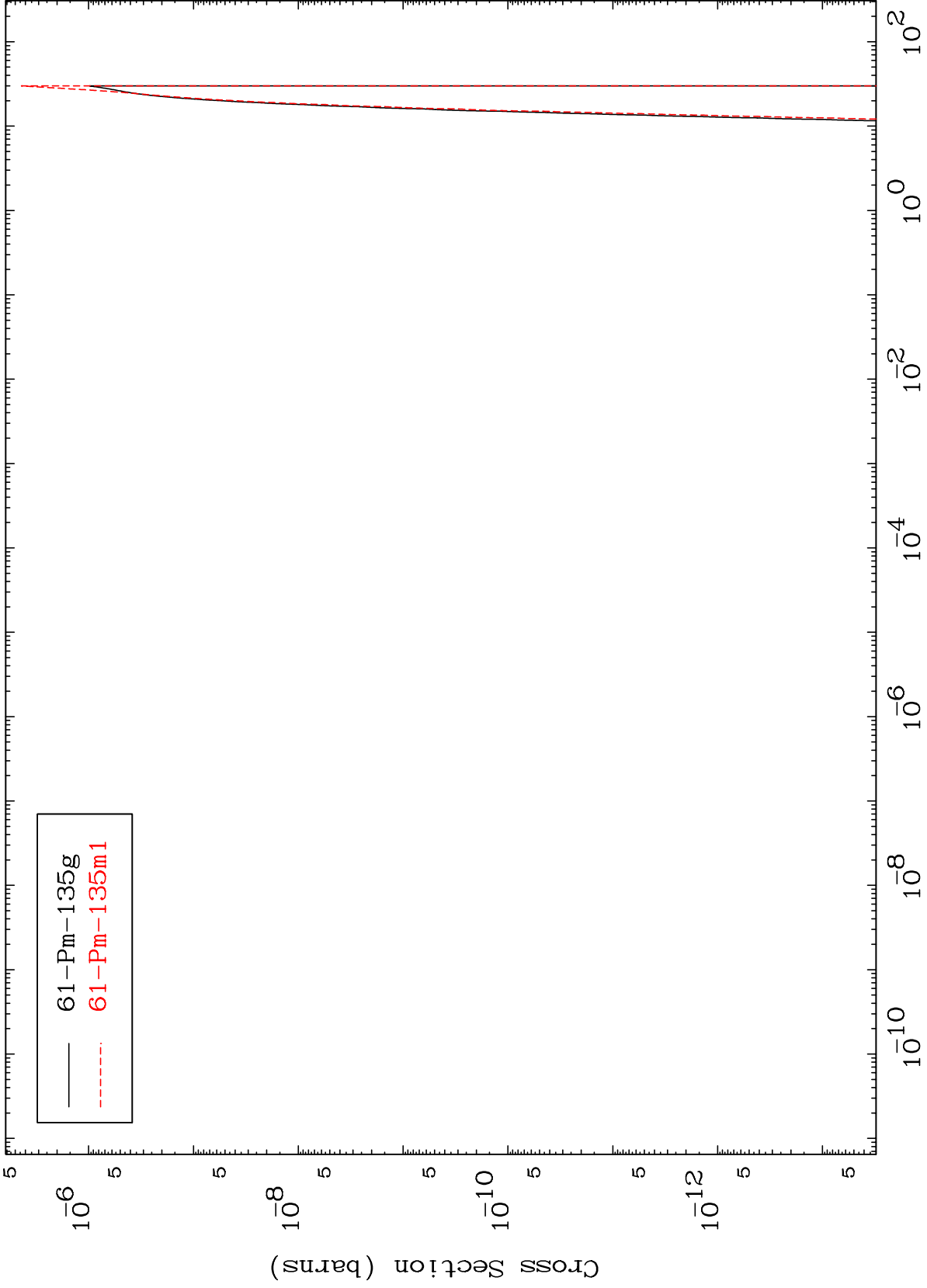


MAT 6389

(n,d) α

64-Gd-140

Radionuclide Production Cross Section



45

Incident Energy (MeV)

64-Gd-140