

Program EVALPLOT
(Version 2021-1)

by

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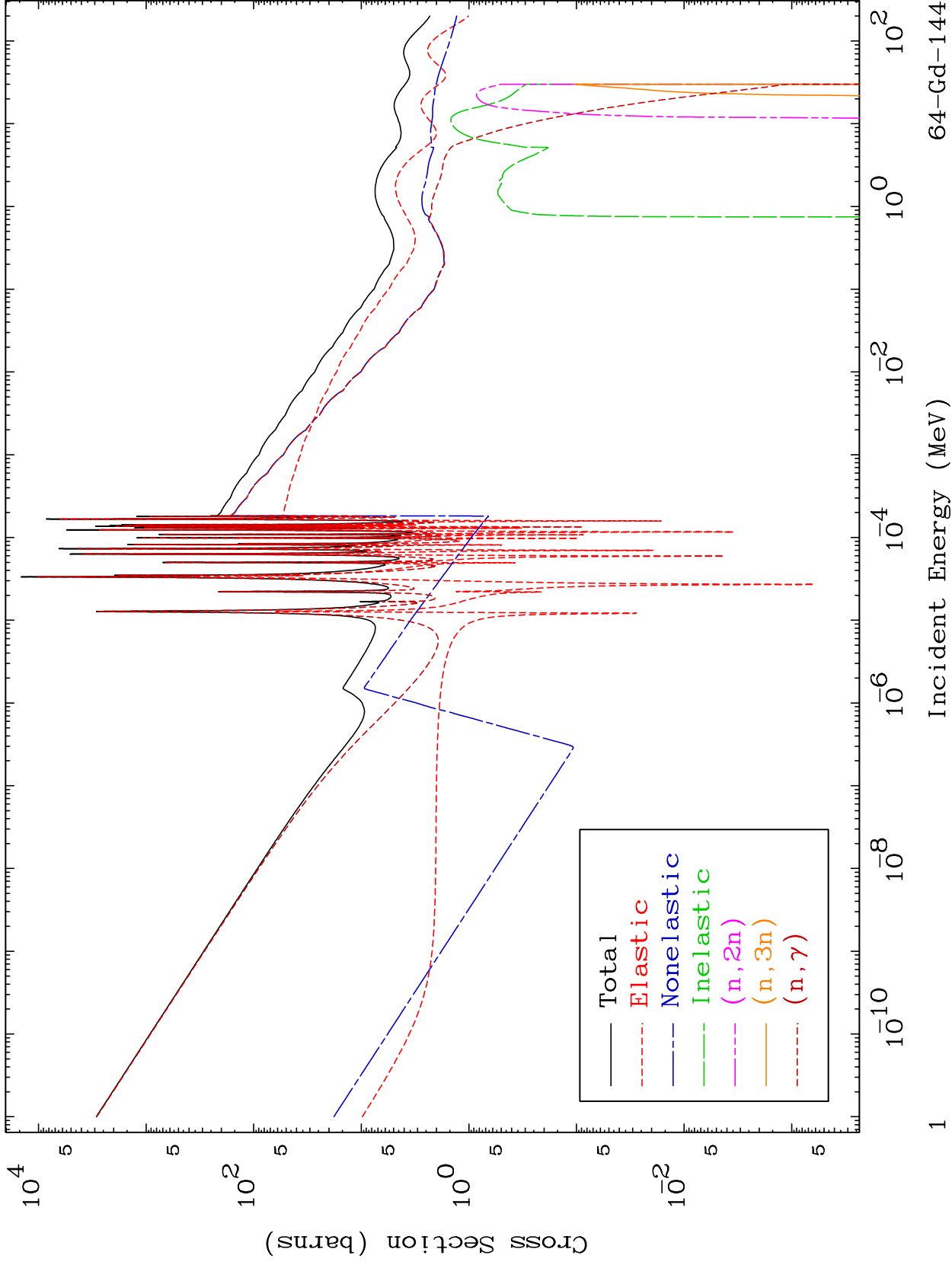
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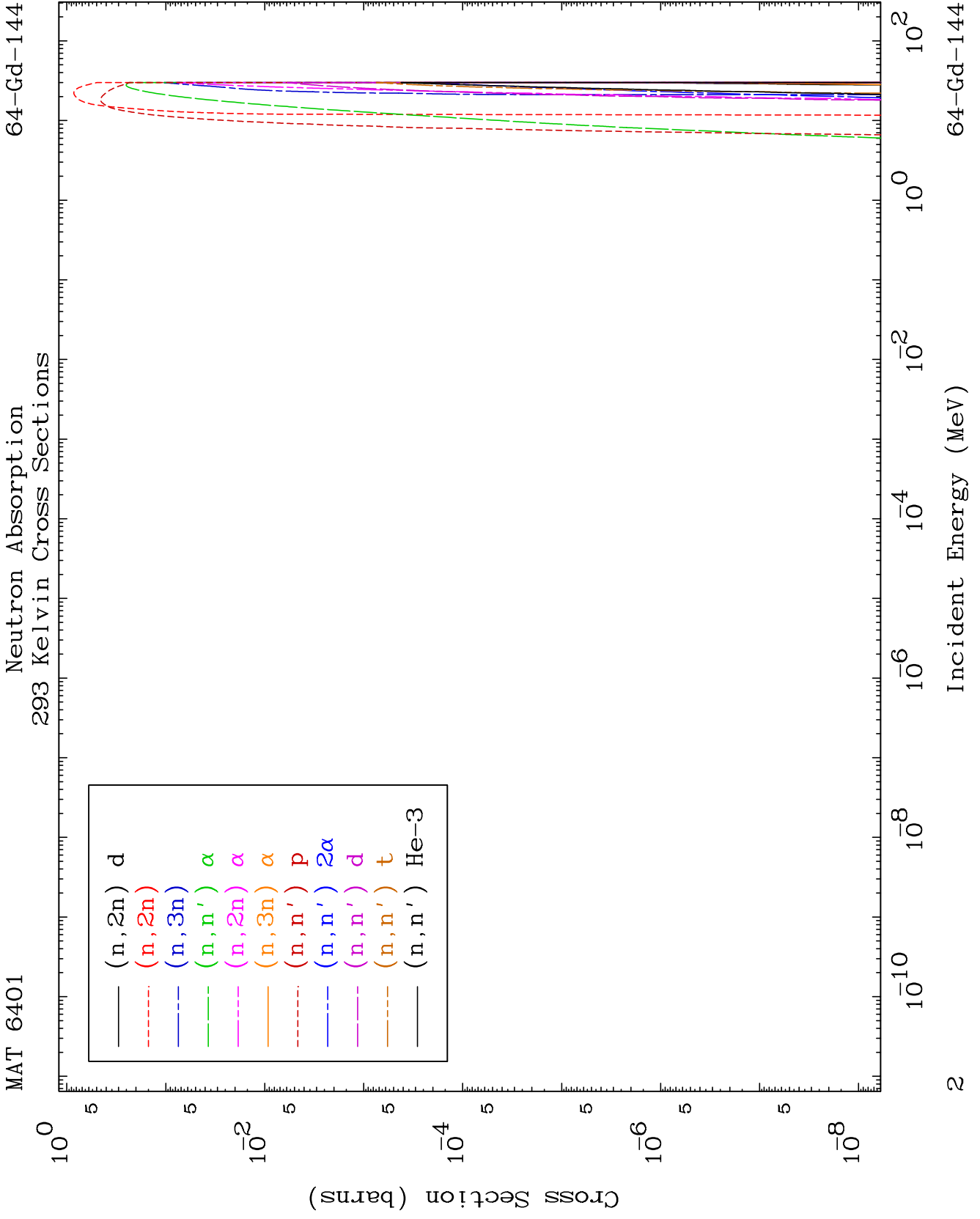
Press Mouse Button to Start

MAT 6401

Neutron Major
293 Kelvin Cross Sections

64-Gd-144

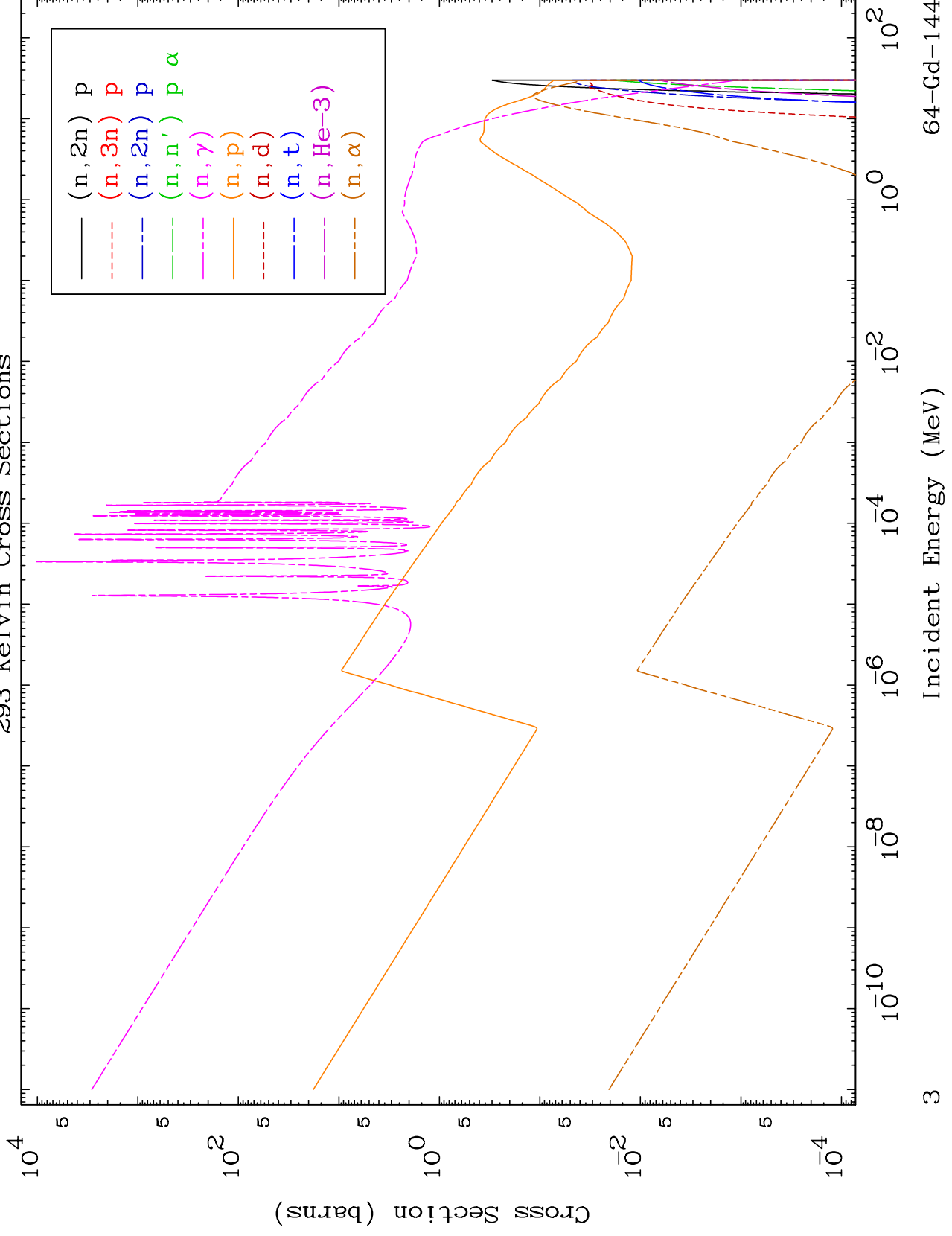




MAT 6401

Neutron Absorption
293 Kelvin Cross Sections

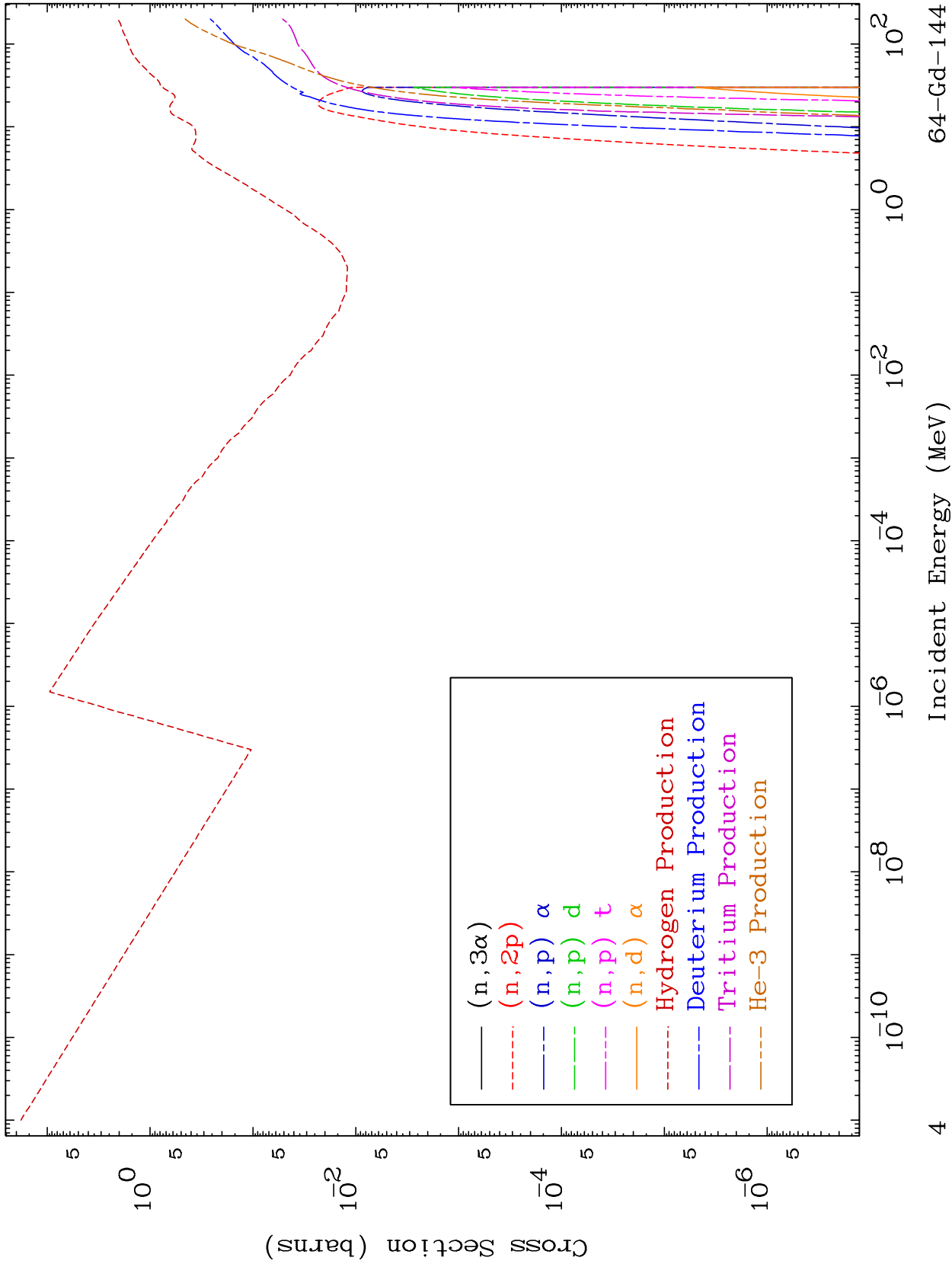
64-Gd-144



MAT 6401

Neutron Absorption
293 Kelvin Cross Sections

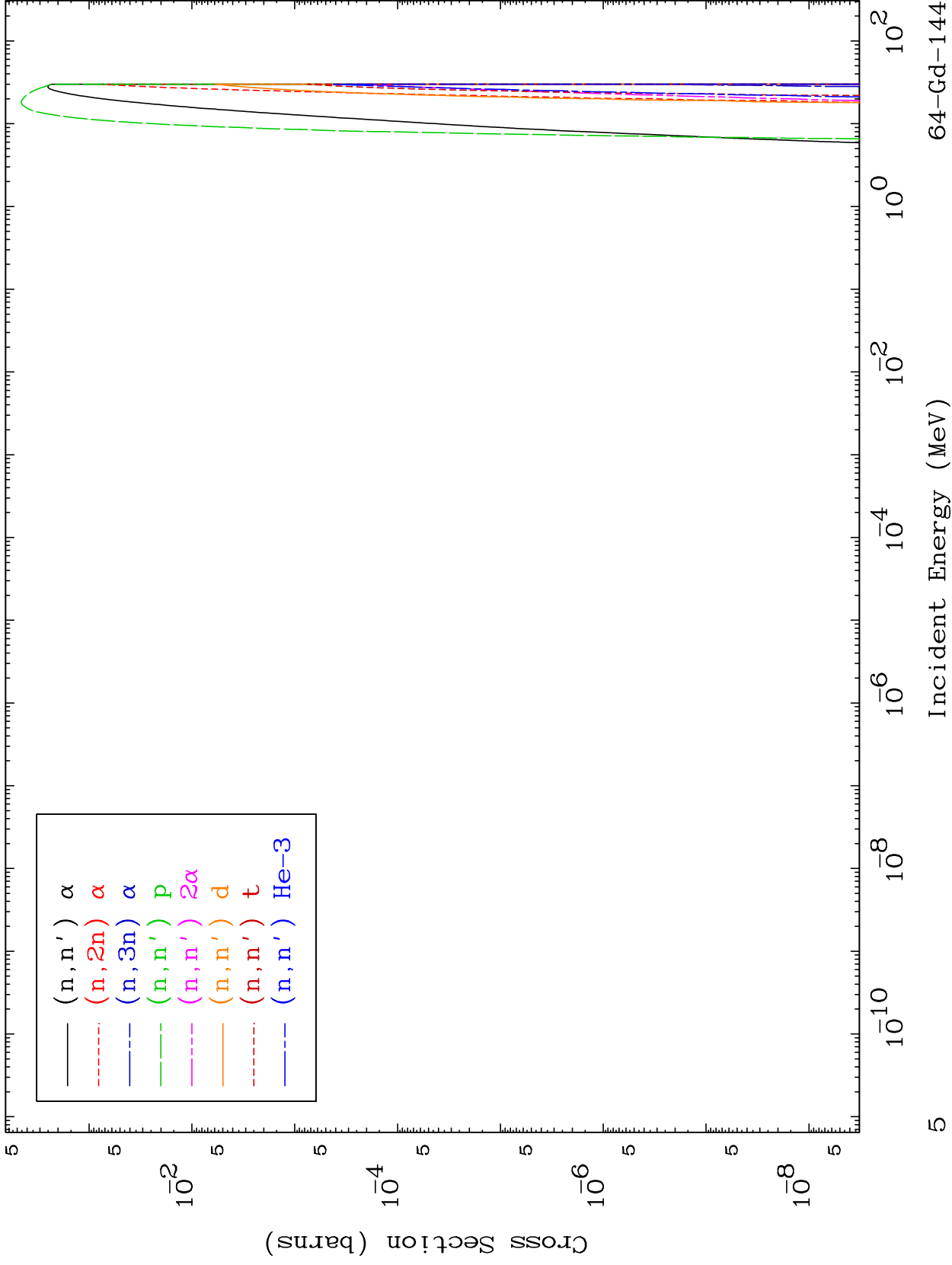
64-Gd-144



MAT 6401

Charged Particle
293 Kelvin Cross Sections

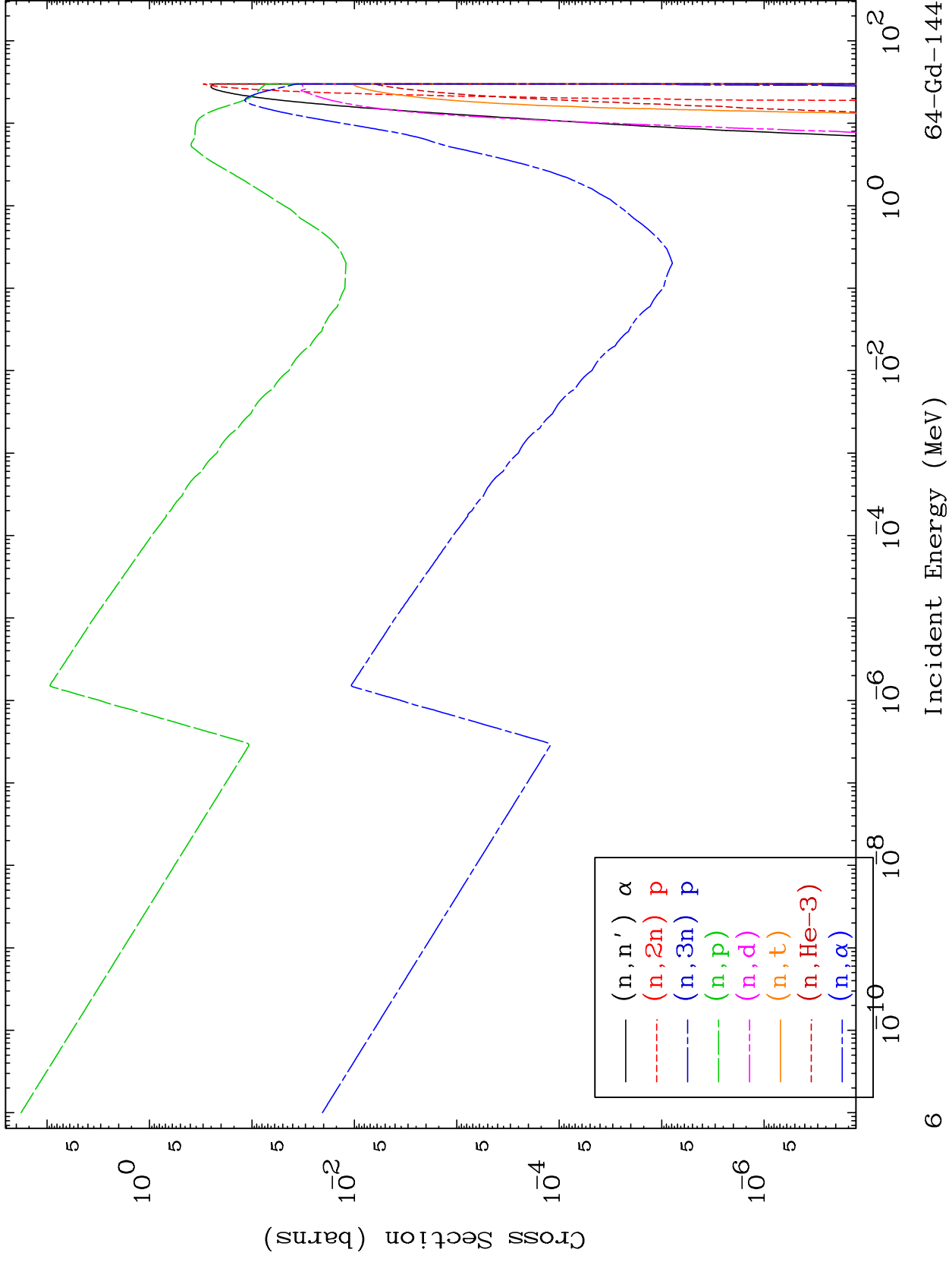
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MAT 6401

Charged Particle
293 Kelvin Cross Sections

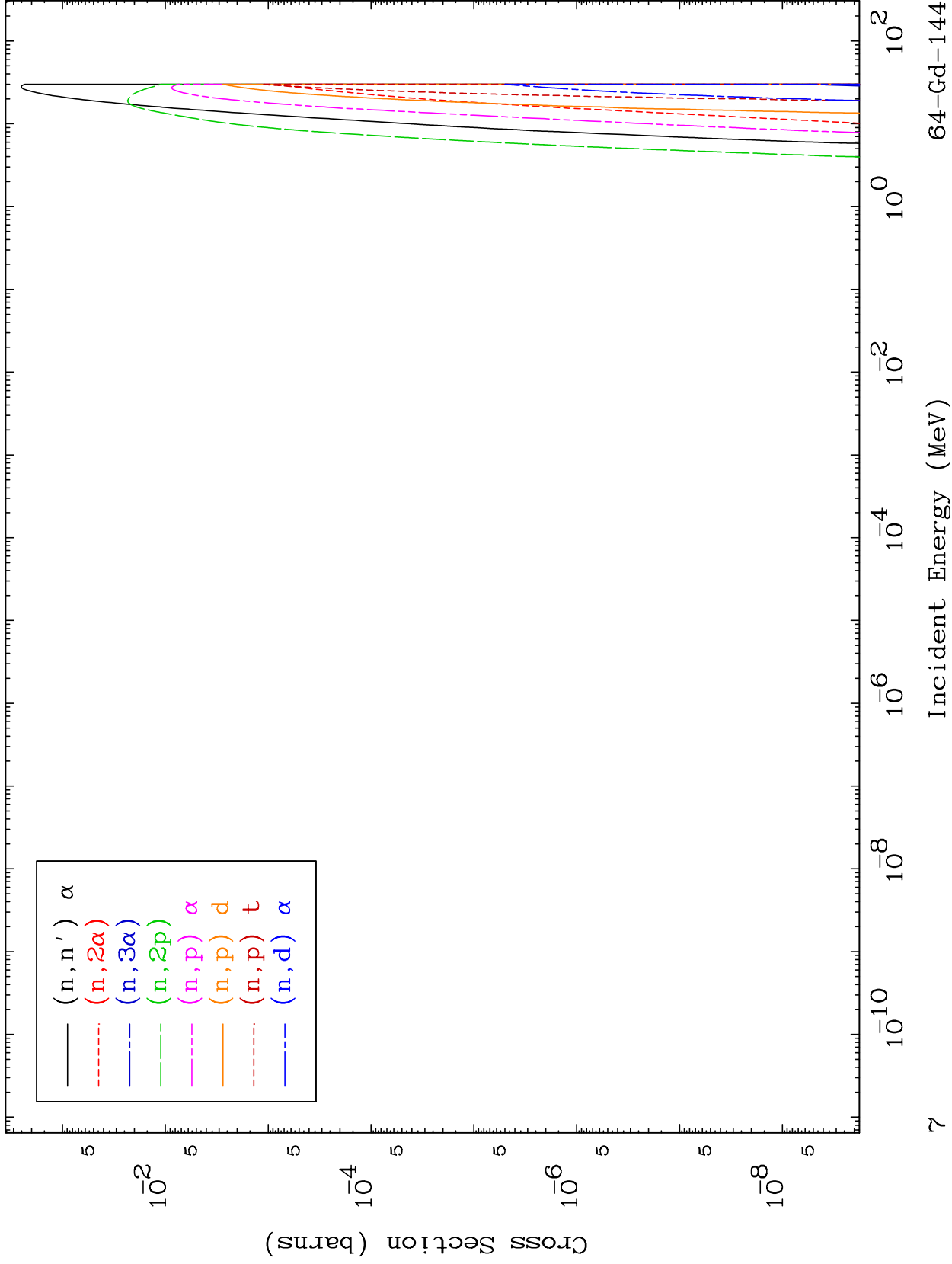
64-Gd-144

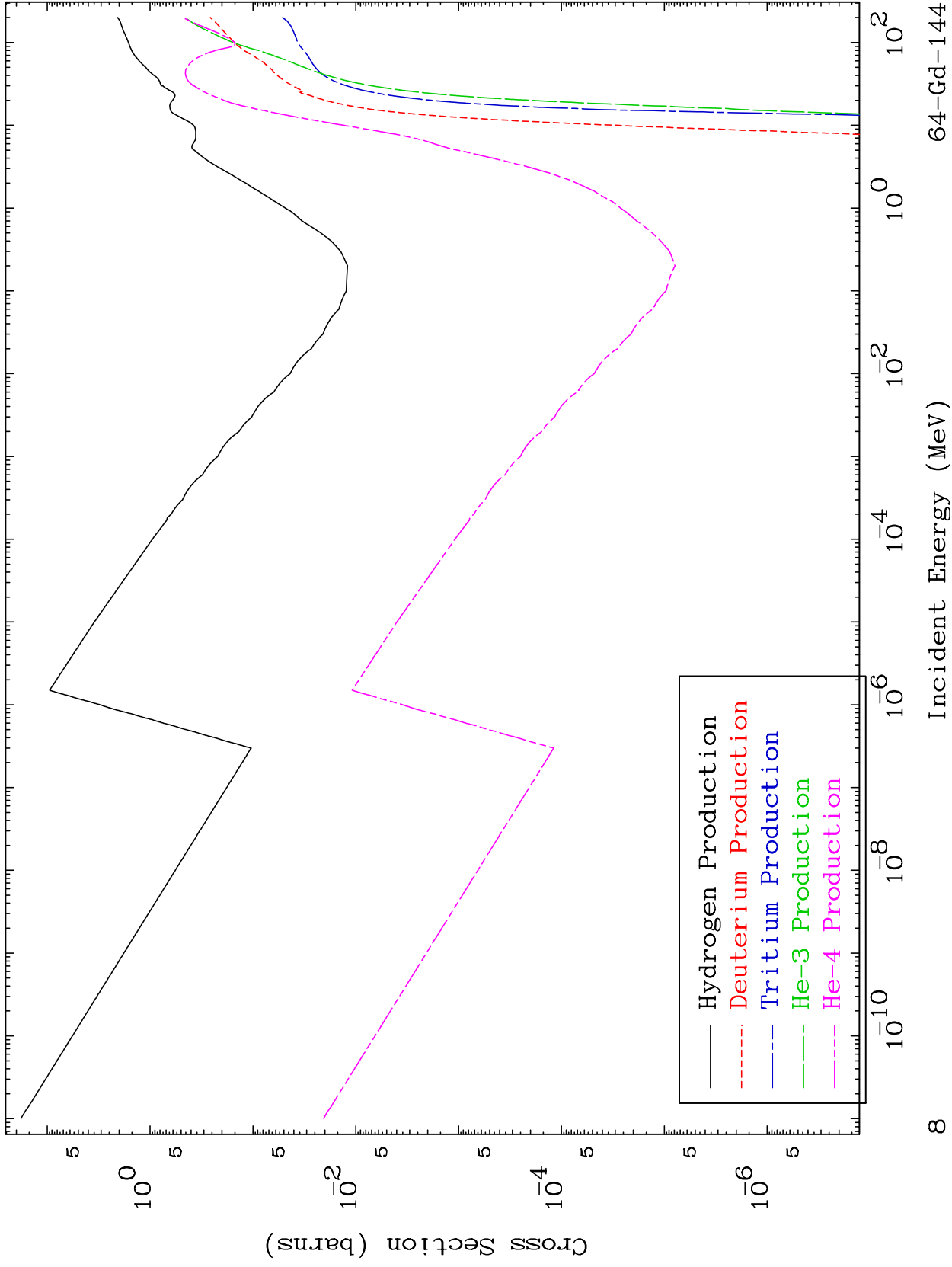


MAT 6401

Charged Particle
293 Kelvin Cross Sections

64-Gd-144



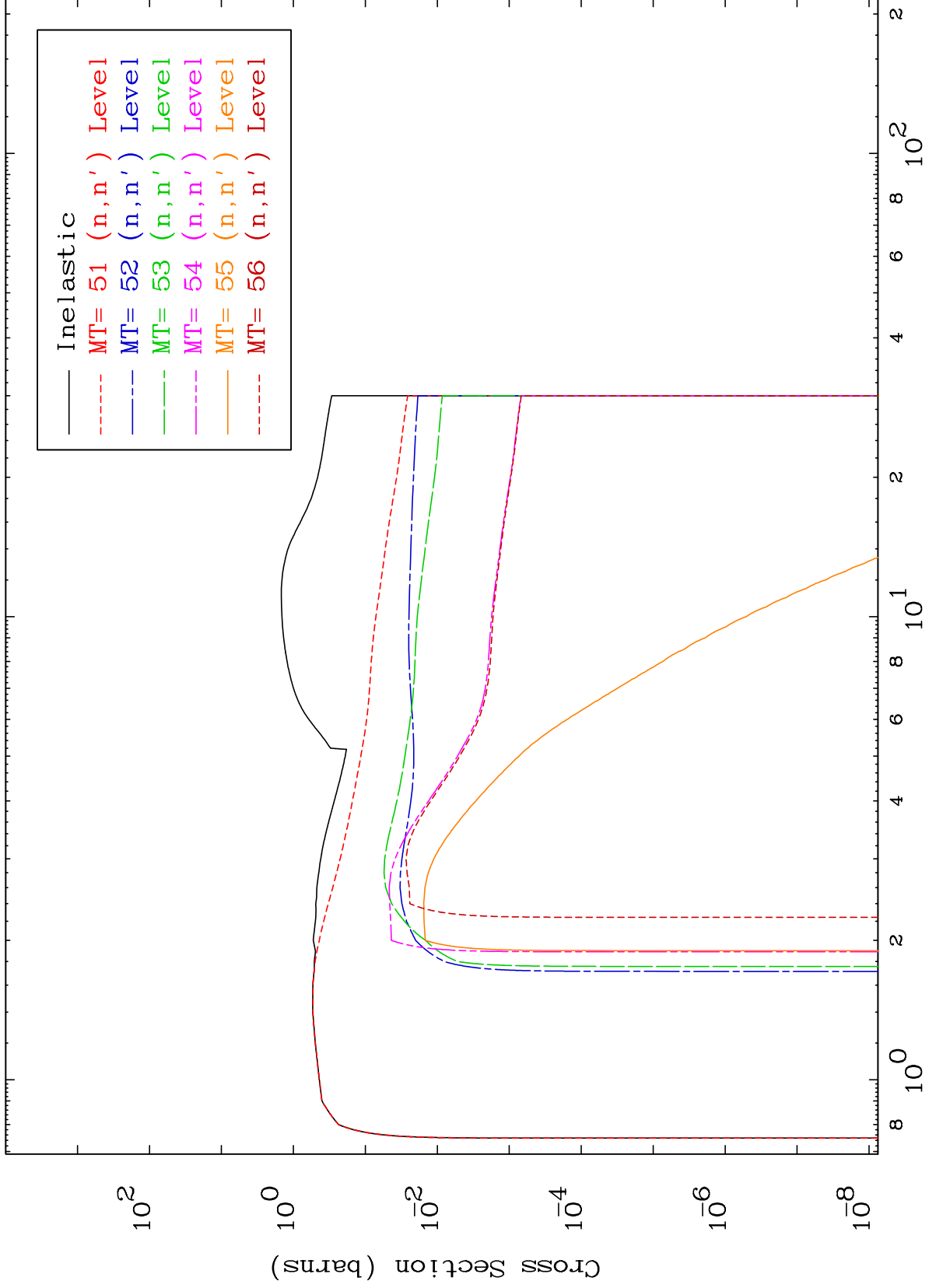


MAT 6401

(n,n') Levels

64-Gd-144

293 Kelvin Cross Sections



9

Incident Energy (MeV)

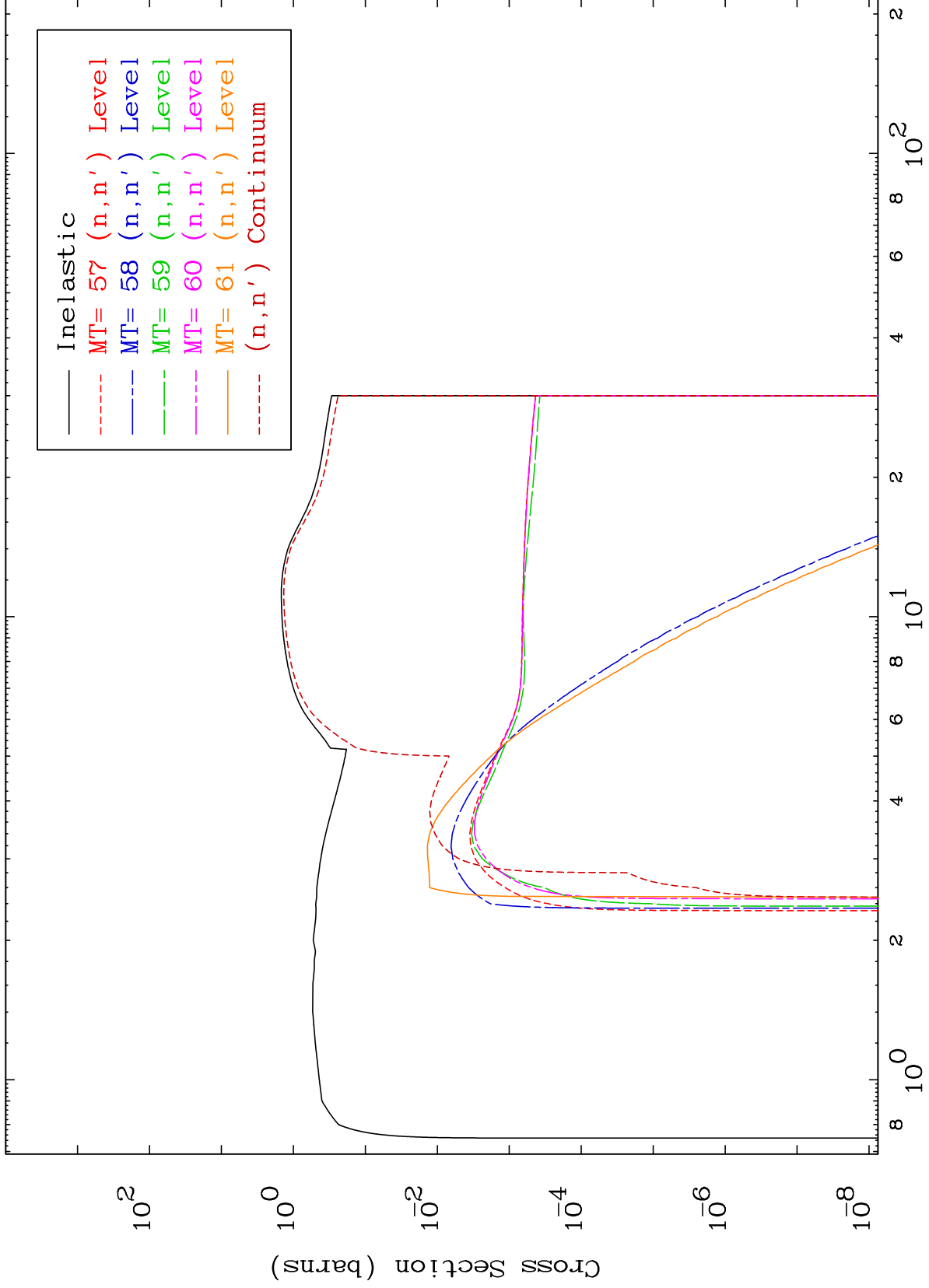
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MAT 6401

(n,n') Levels

64-Gd-144

293 Kelvin Cross Sections



10

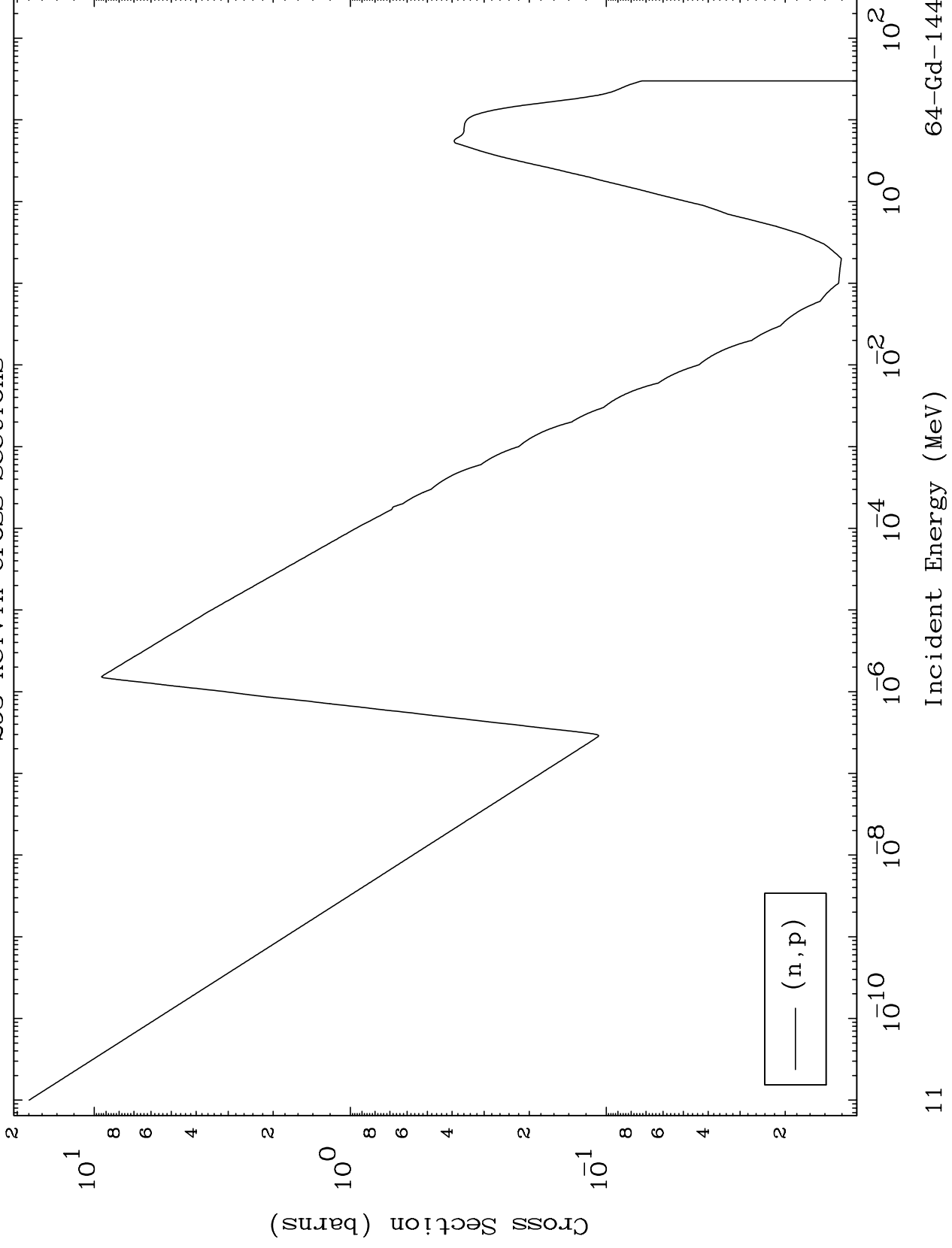
Incident Energy (MeV)

64-Gd-144

MAT 6401

(n,p) Levels
293 Kelvin Cross Sections

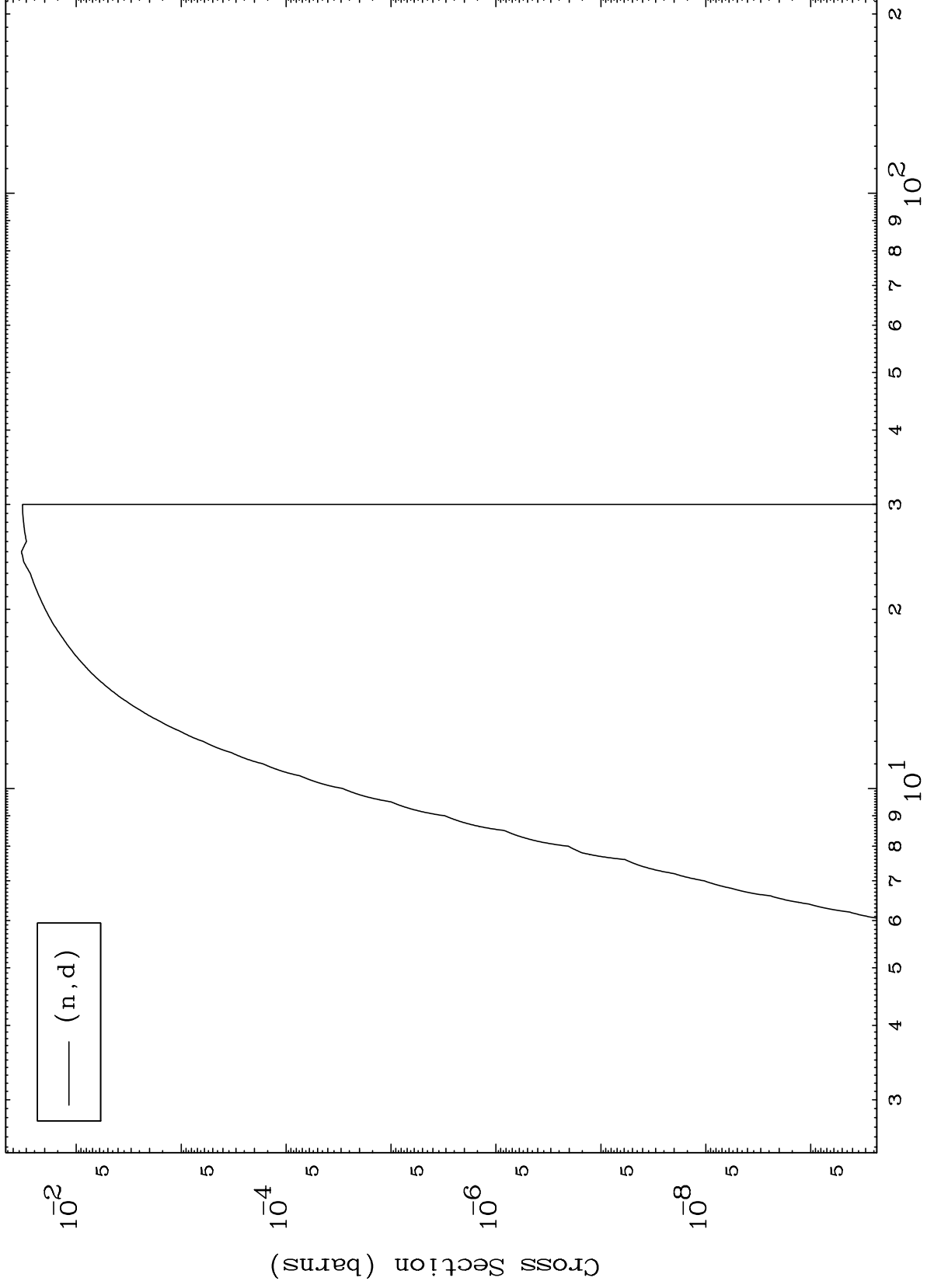
64-Gd-144



MAT 6401

(n,d) Levels
293 Kelvin Cross Sections

64-Gd-144



12

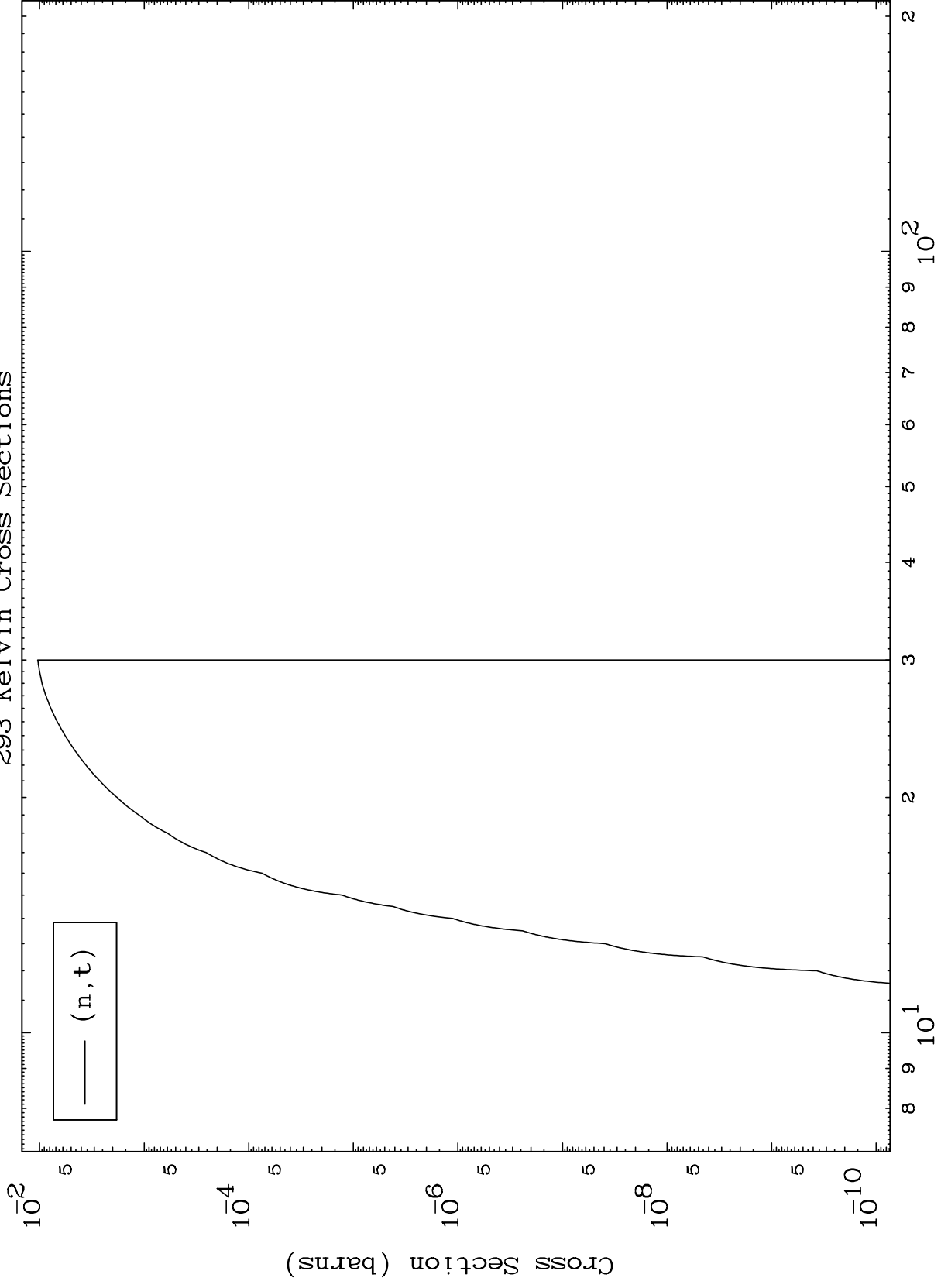
Incident Energy (MeV)

64-Gd-144

MAT 6401

(n,t) Levels
293 Kelvin Cross Sections

64-Gd-144



13

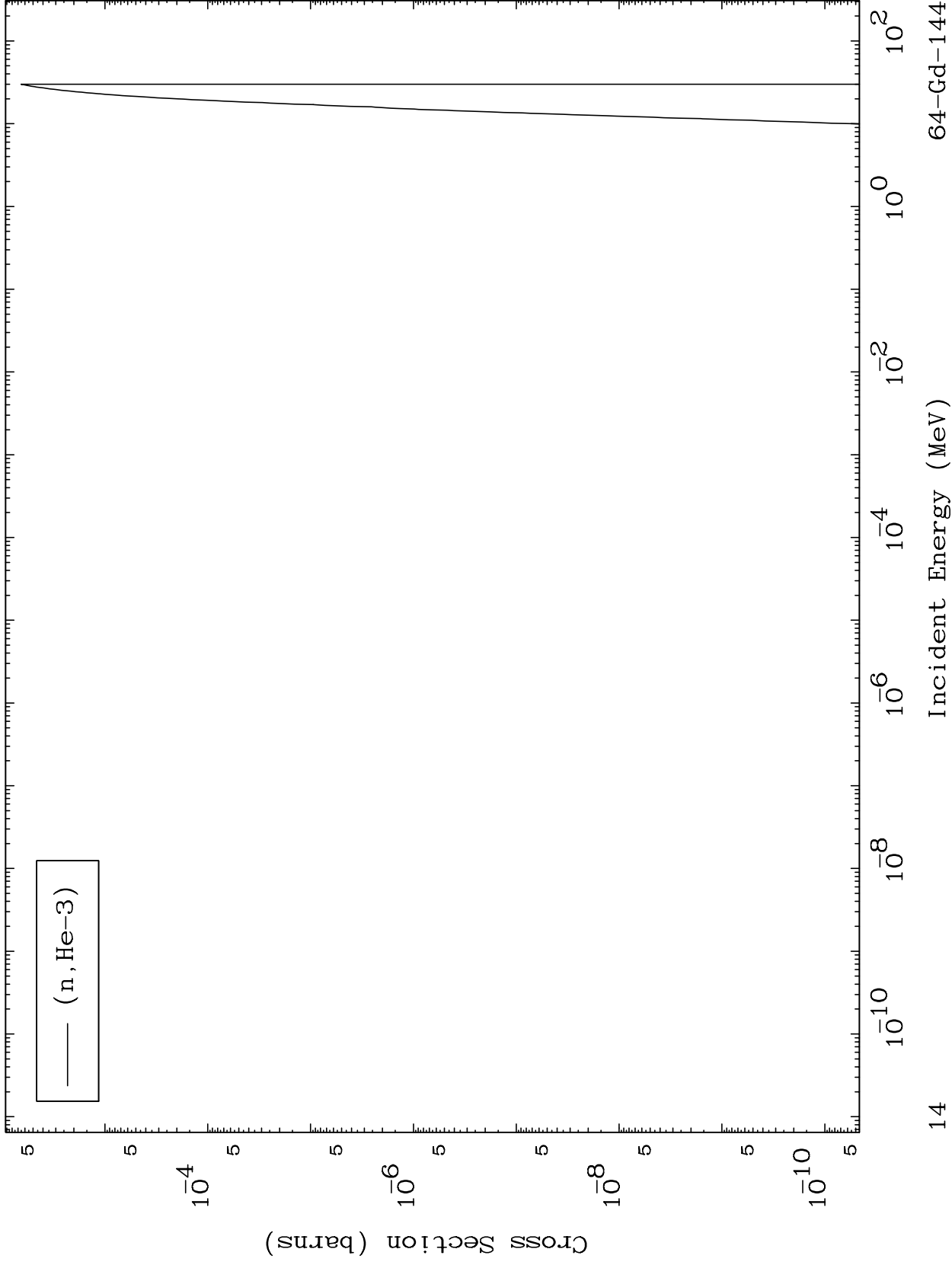
Incident Energy (MeV)

64-Gd-144

MAT 6401

(n,He3) Levels
293 Kelvin Cross Sections

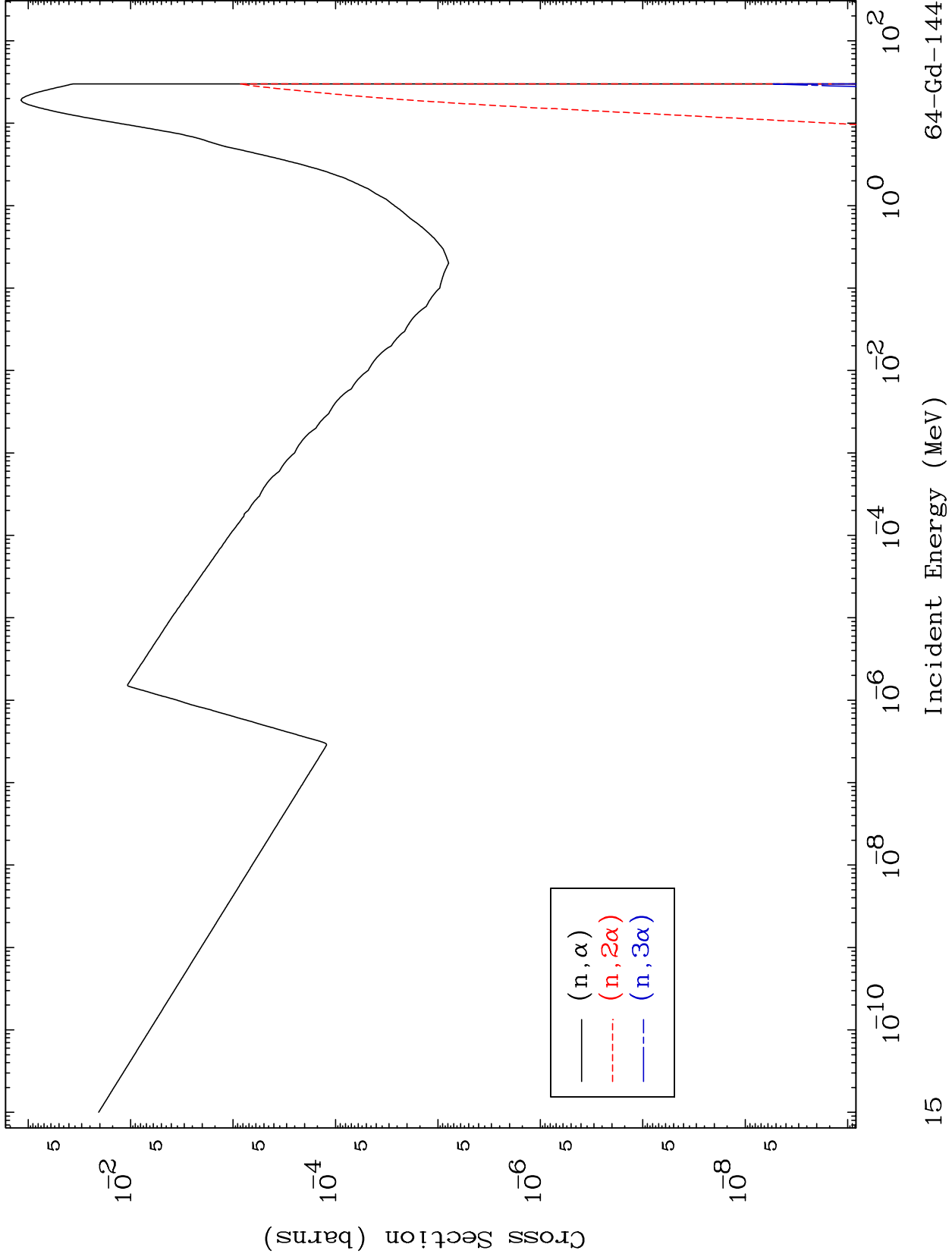
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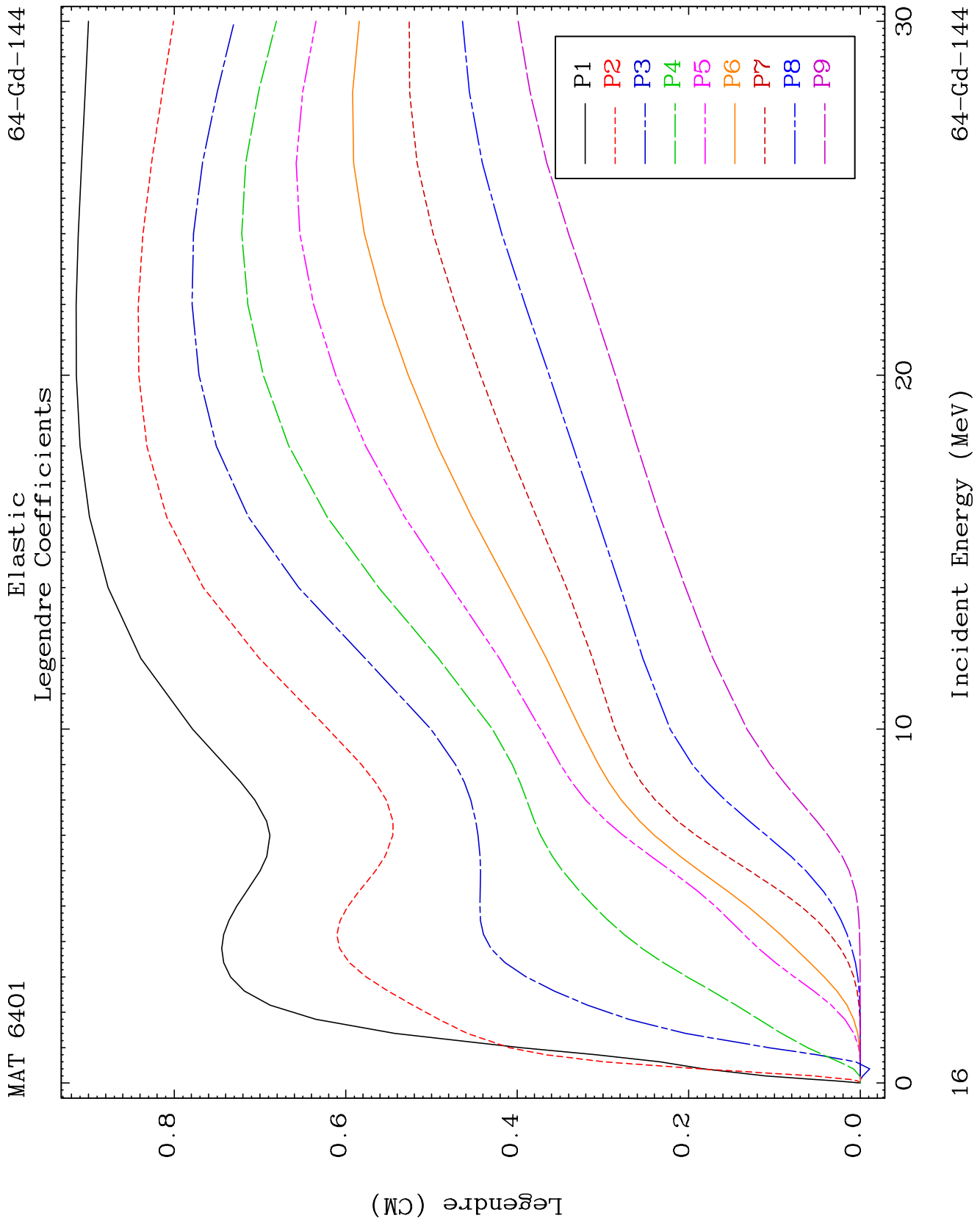


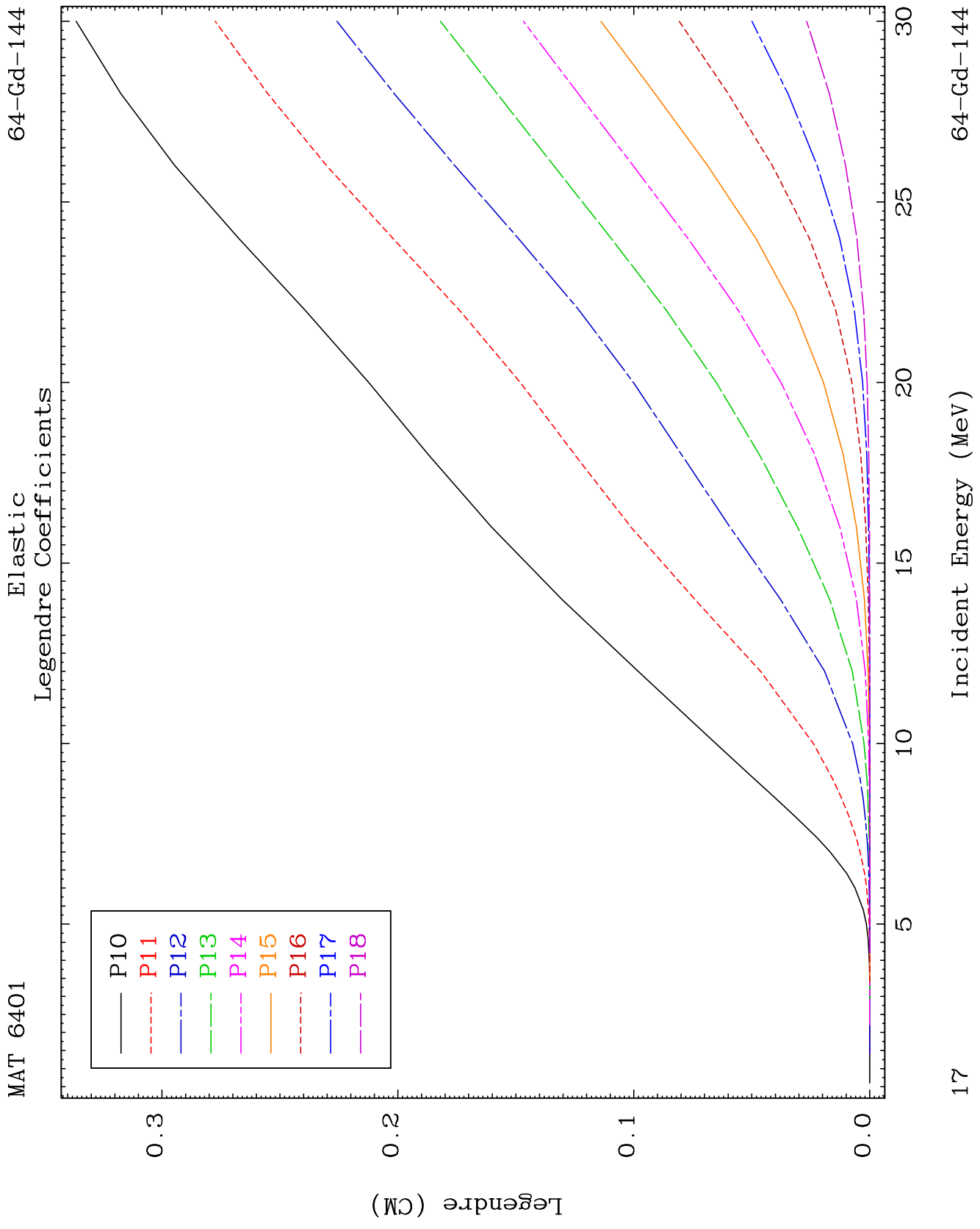
MAT 6401

(n, α) Levels
293 Kelvin Cross Sections

64-Gd-144



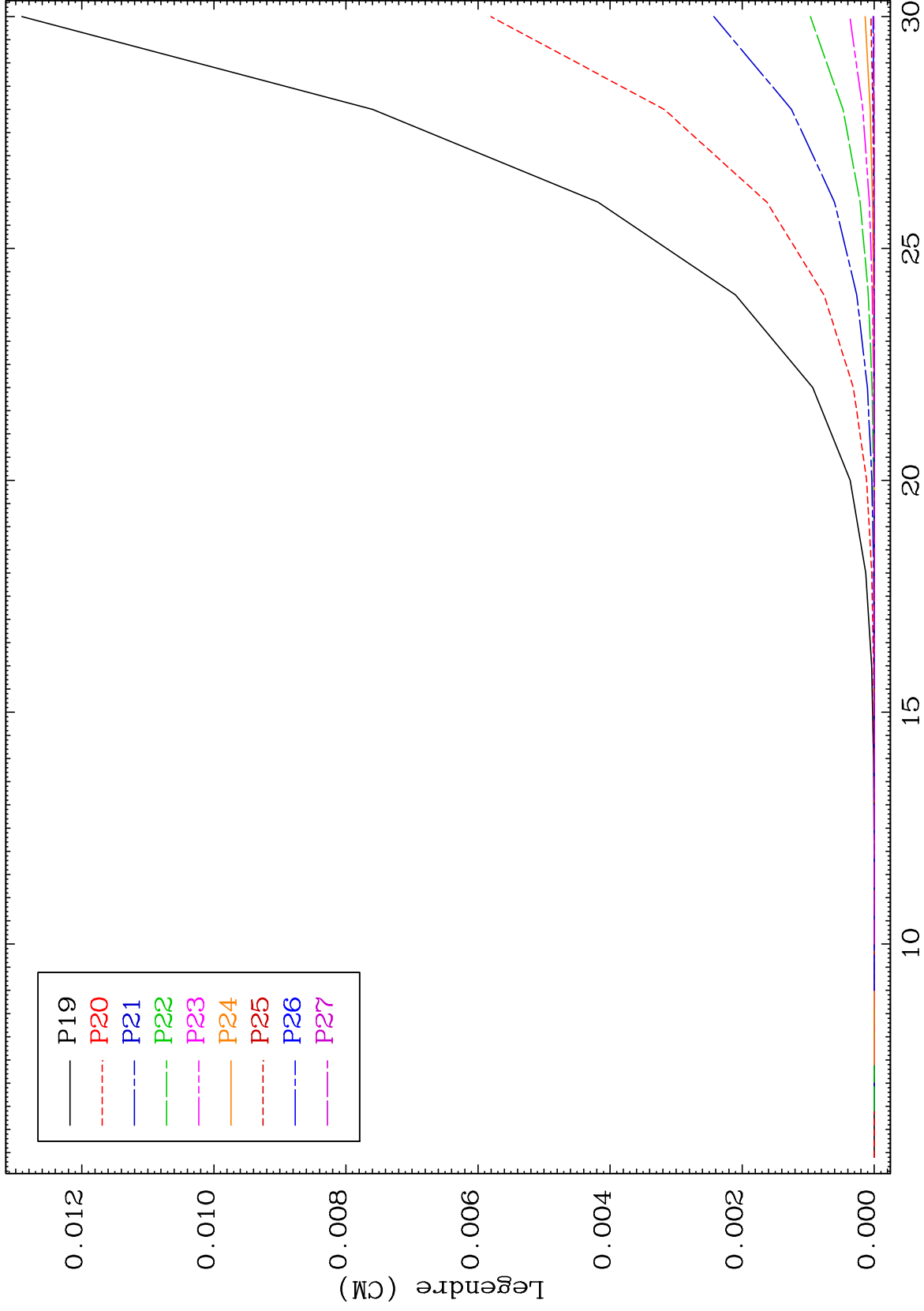




MAT 6401

Elastic Legendre Coefficients

64-Gd-144



18

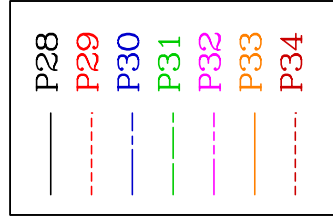
Incident Energy (MeV)

64-Gd-144

MAT 6401

Elastic Legendre Coefficients

64-Gd-144



$\times 10^{-6}$

1.5

Legendre (CM)

1.0

0.5

0.0

15

20

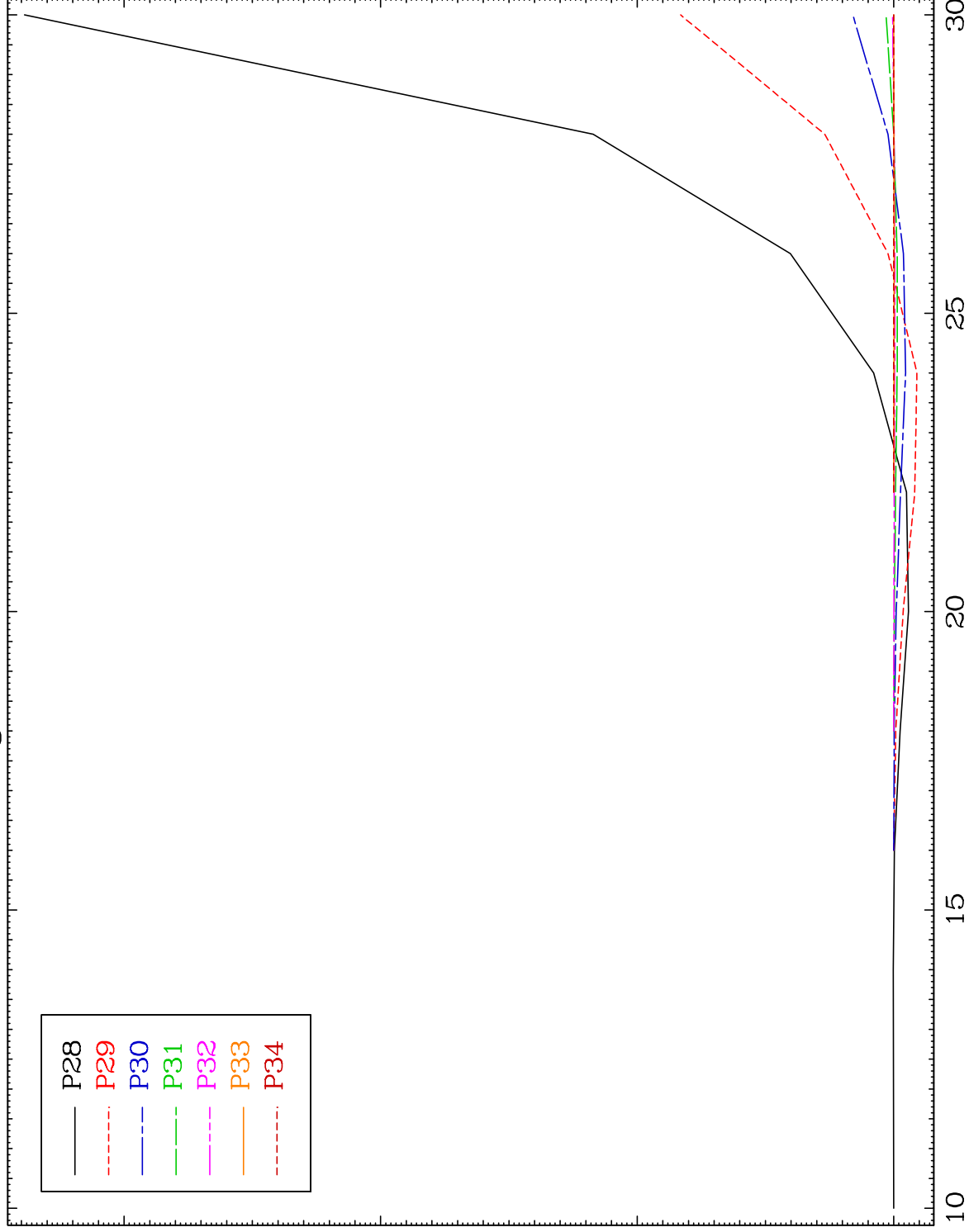
25

30

19

Incident Energy (MeV)

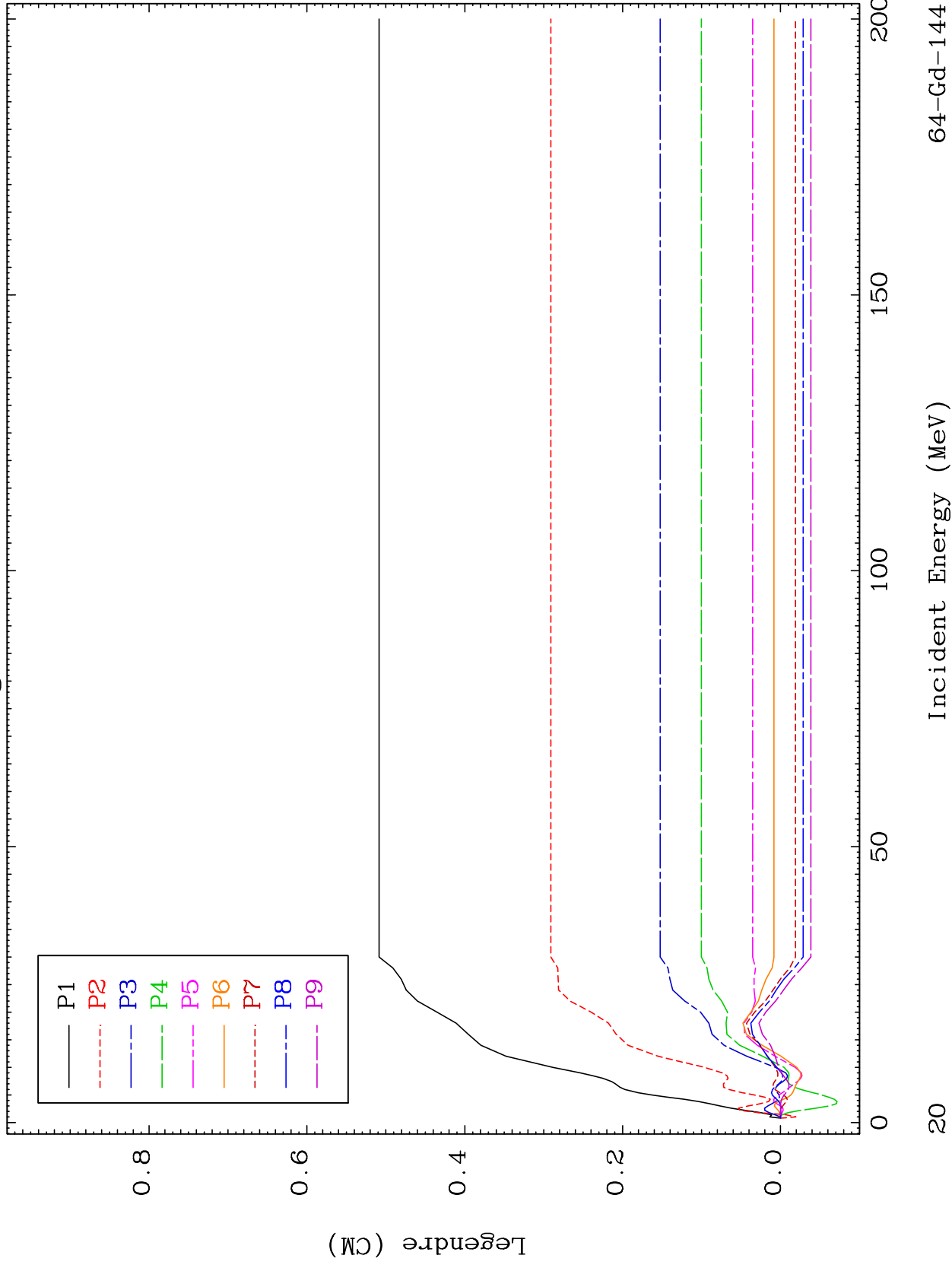
64-Gd-144



MAT 6401

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

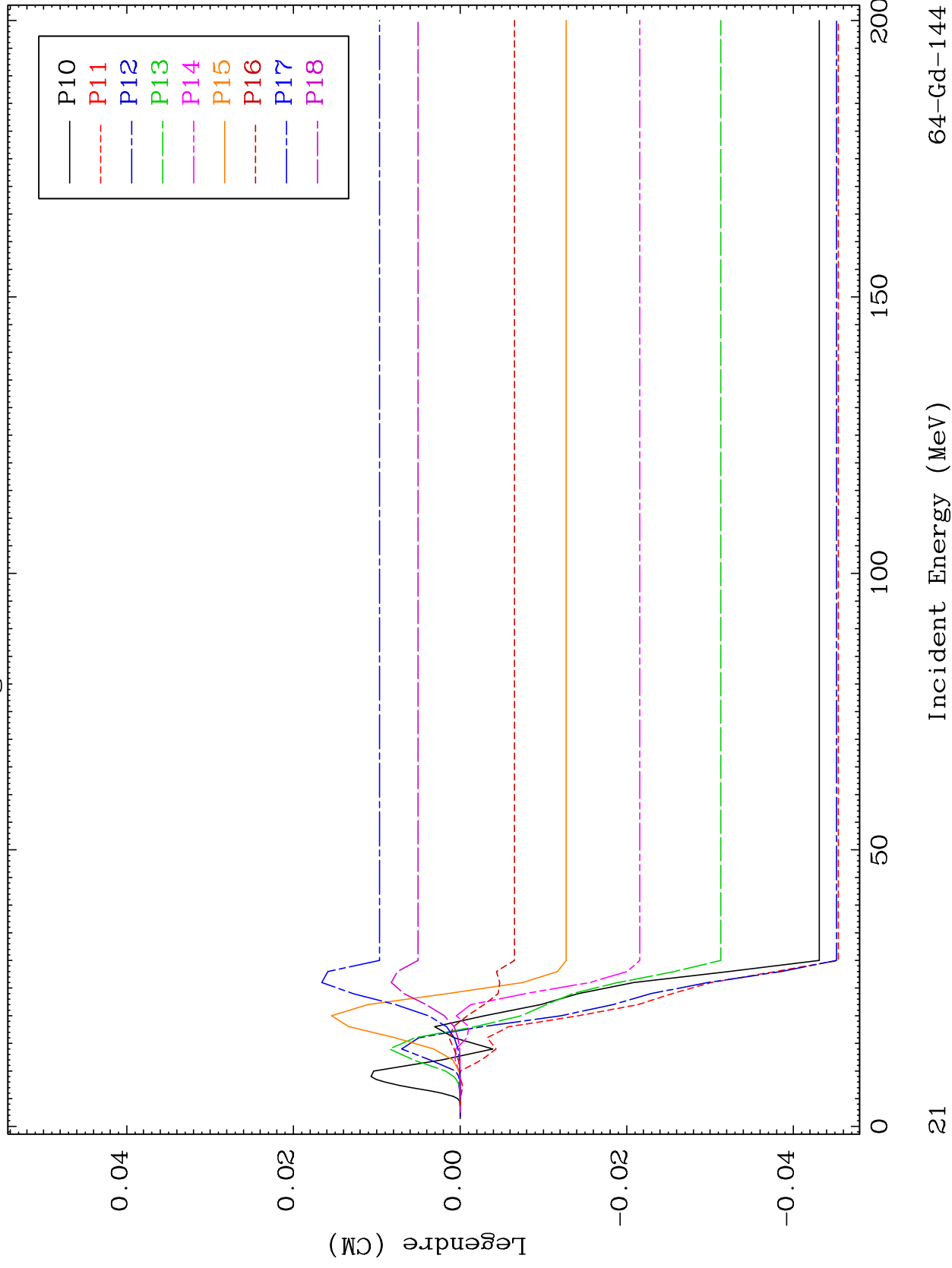
64-Gd-144



MAT 6401

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

64-Gd-144

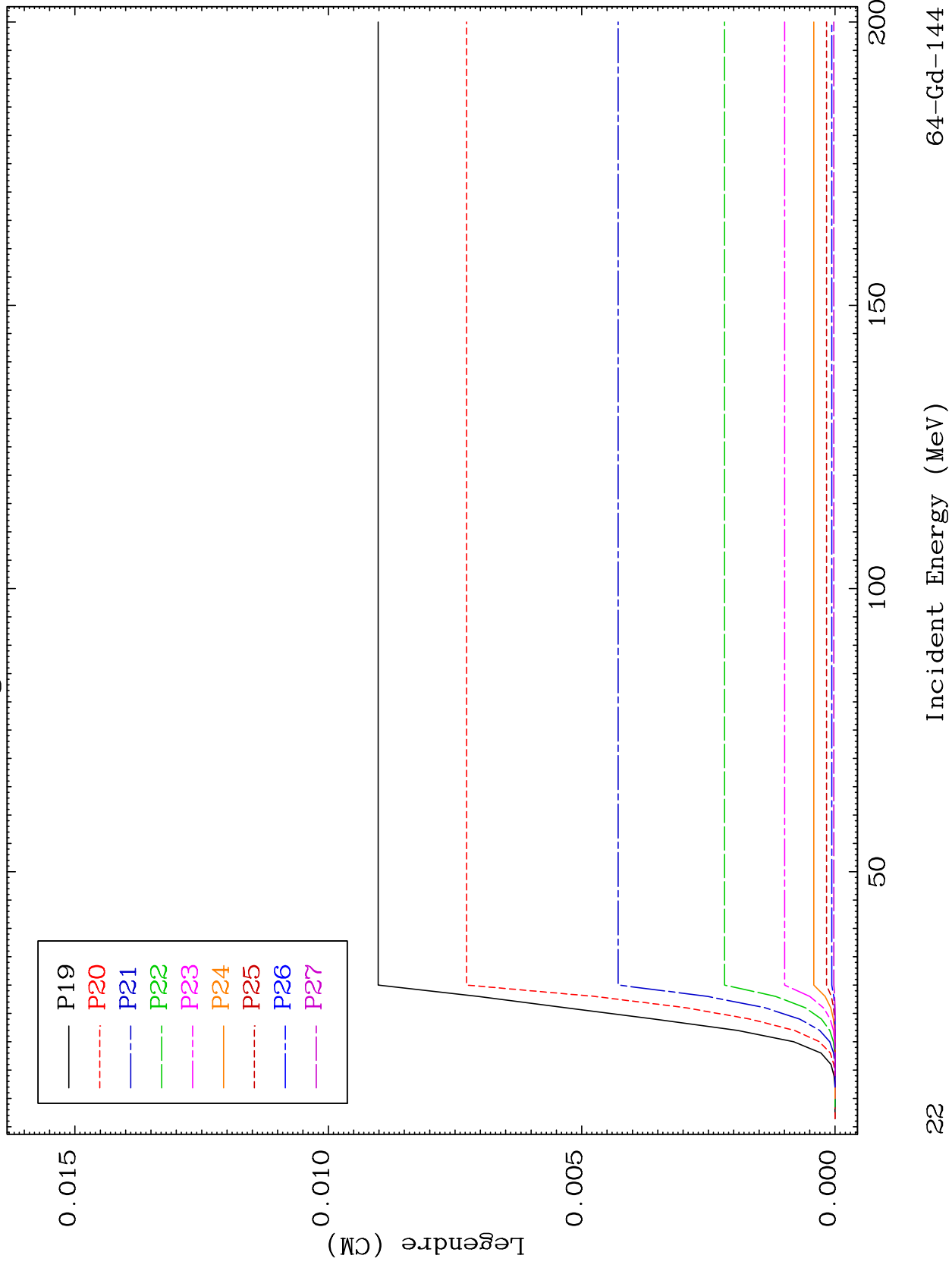


21

MAT 6401

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

64-Gd-144



22

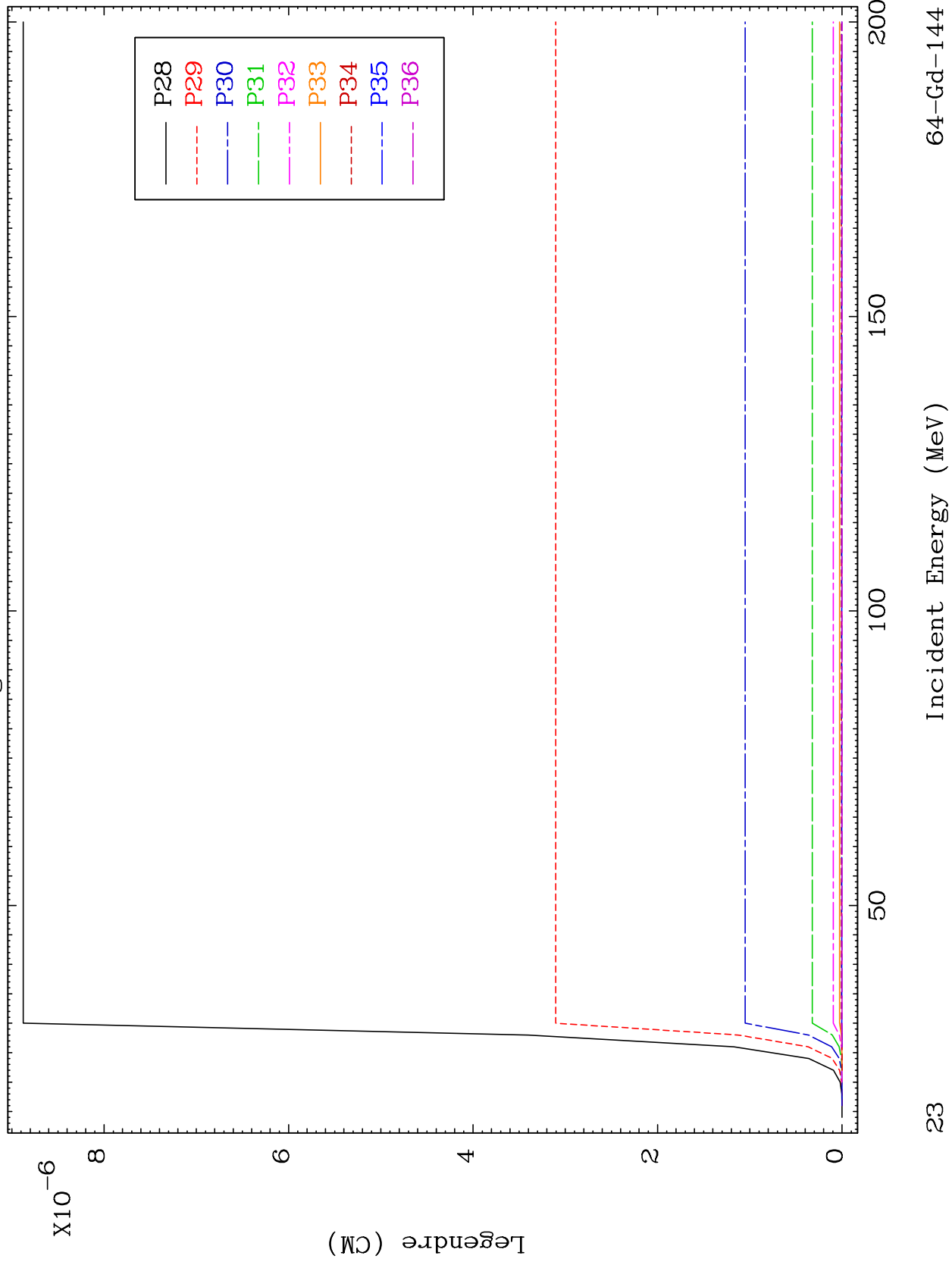
Incident Energy (MeV)

64-Gd-144

MAT 6401

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

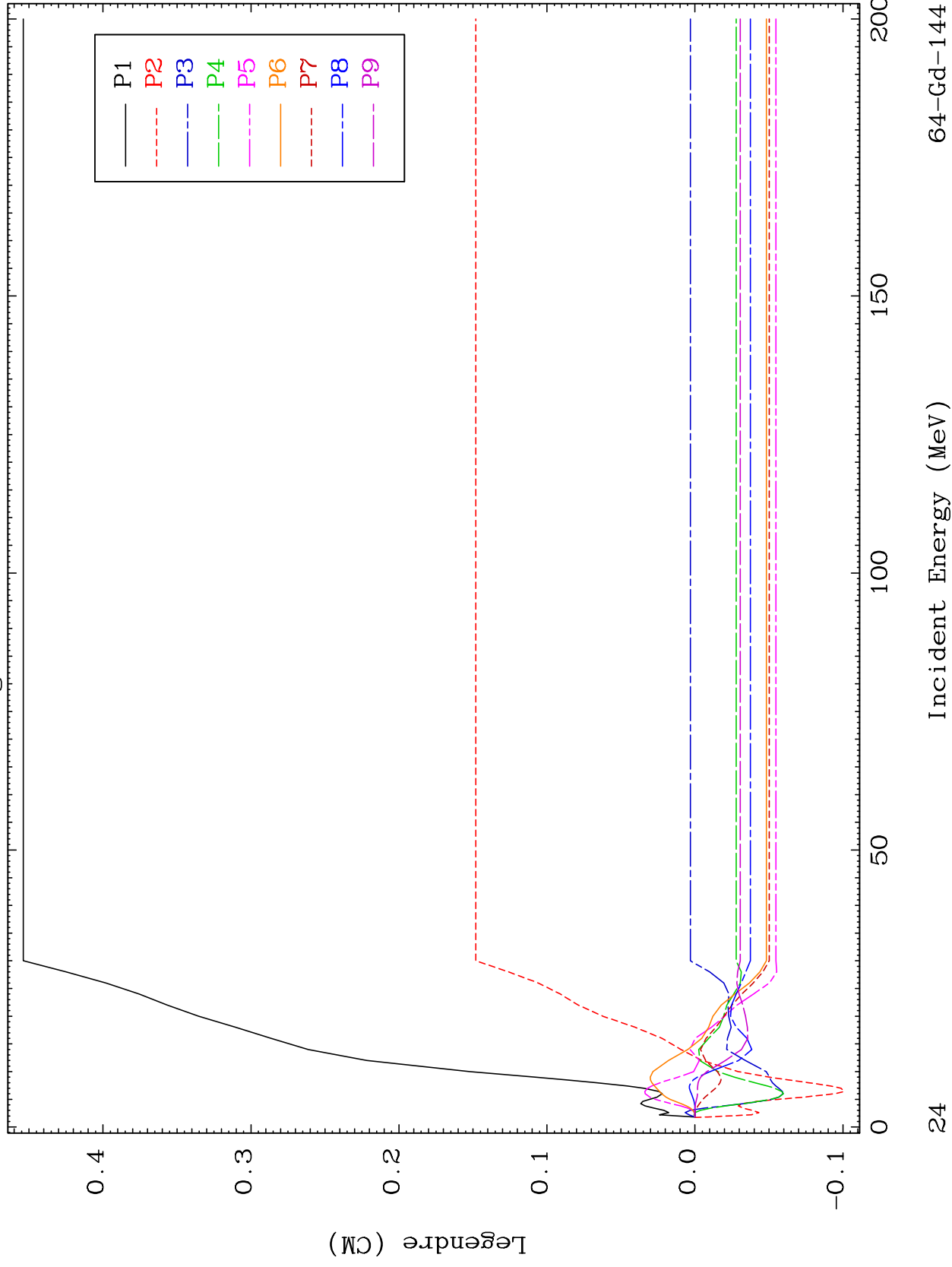
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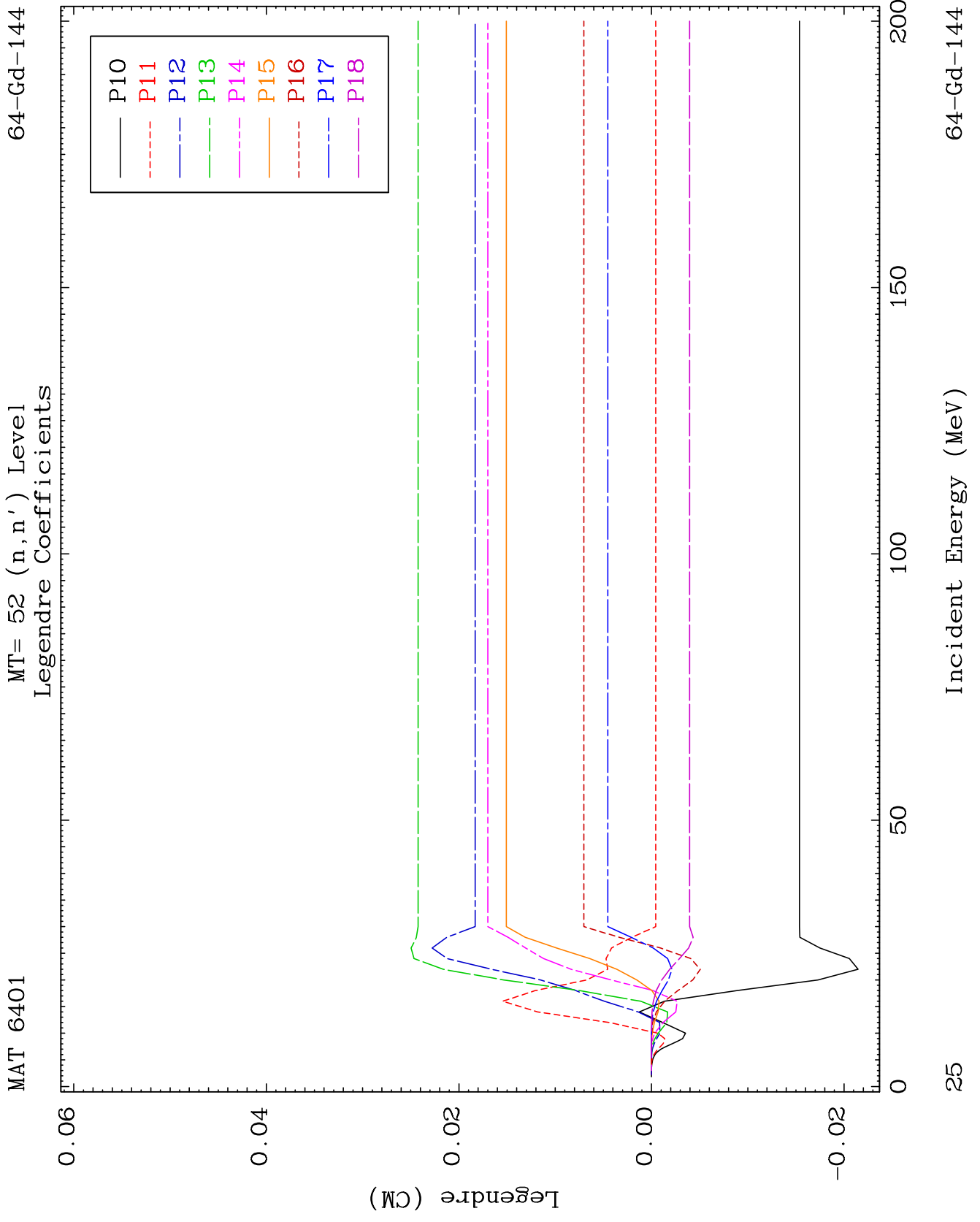
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MT= 52 (n,n') Level
Legendre Coefficients

64-Gd-144



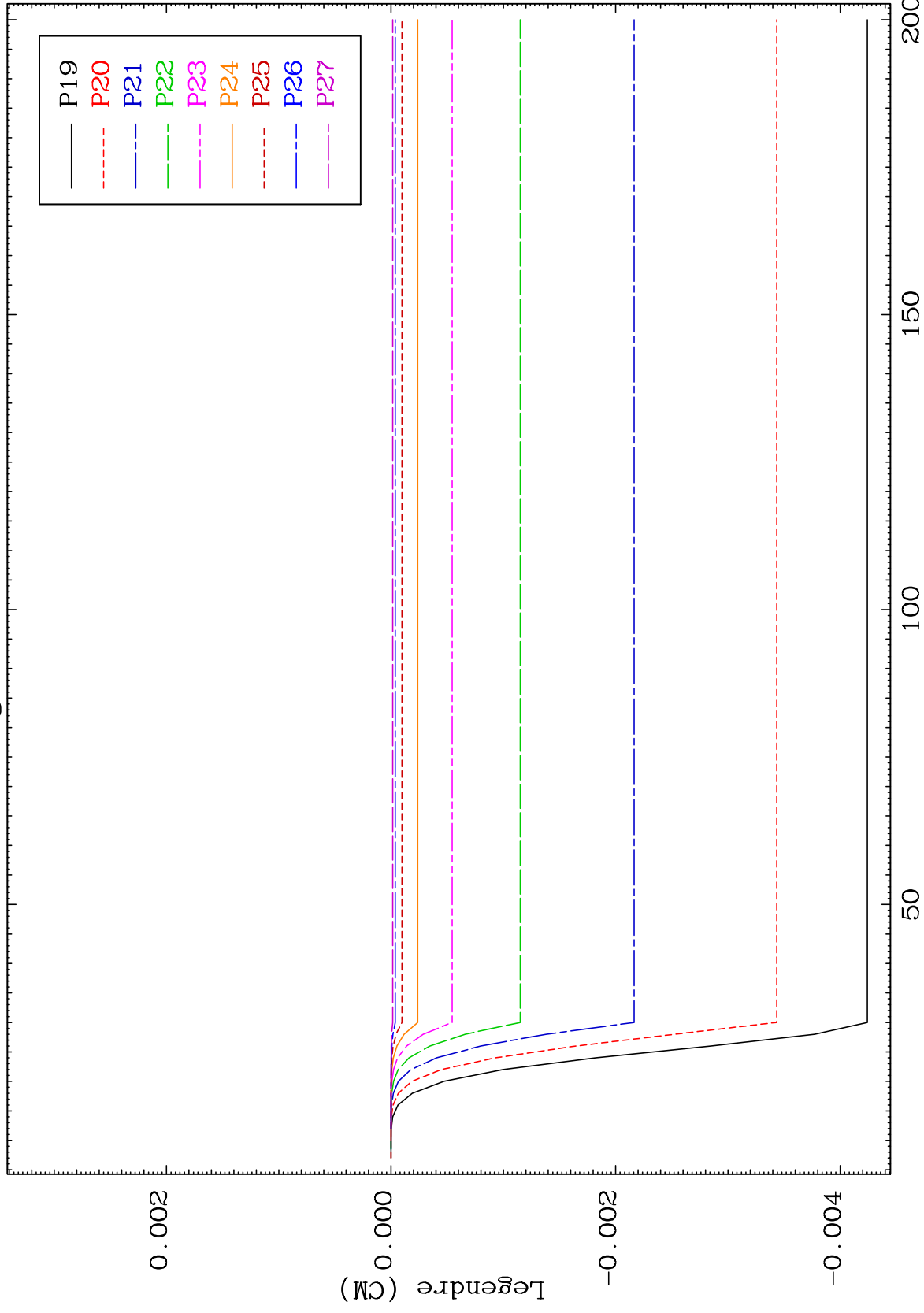
24



MAT 6401

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

64-Gd-144



26

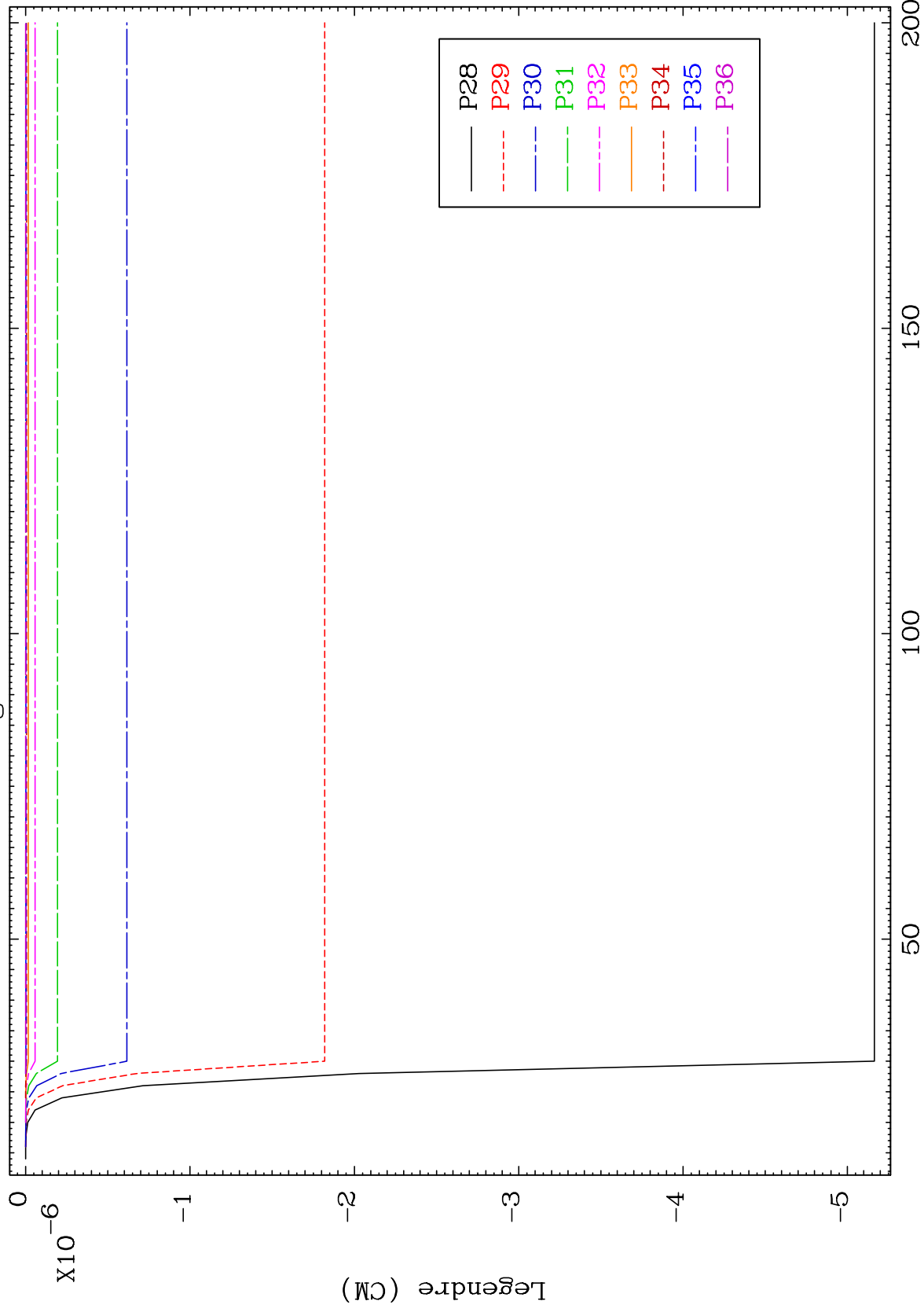
Incident Energy (MeV)

64-Gd-144

MAT 6401

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

64-Gd-144



27

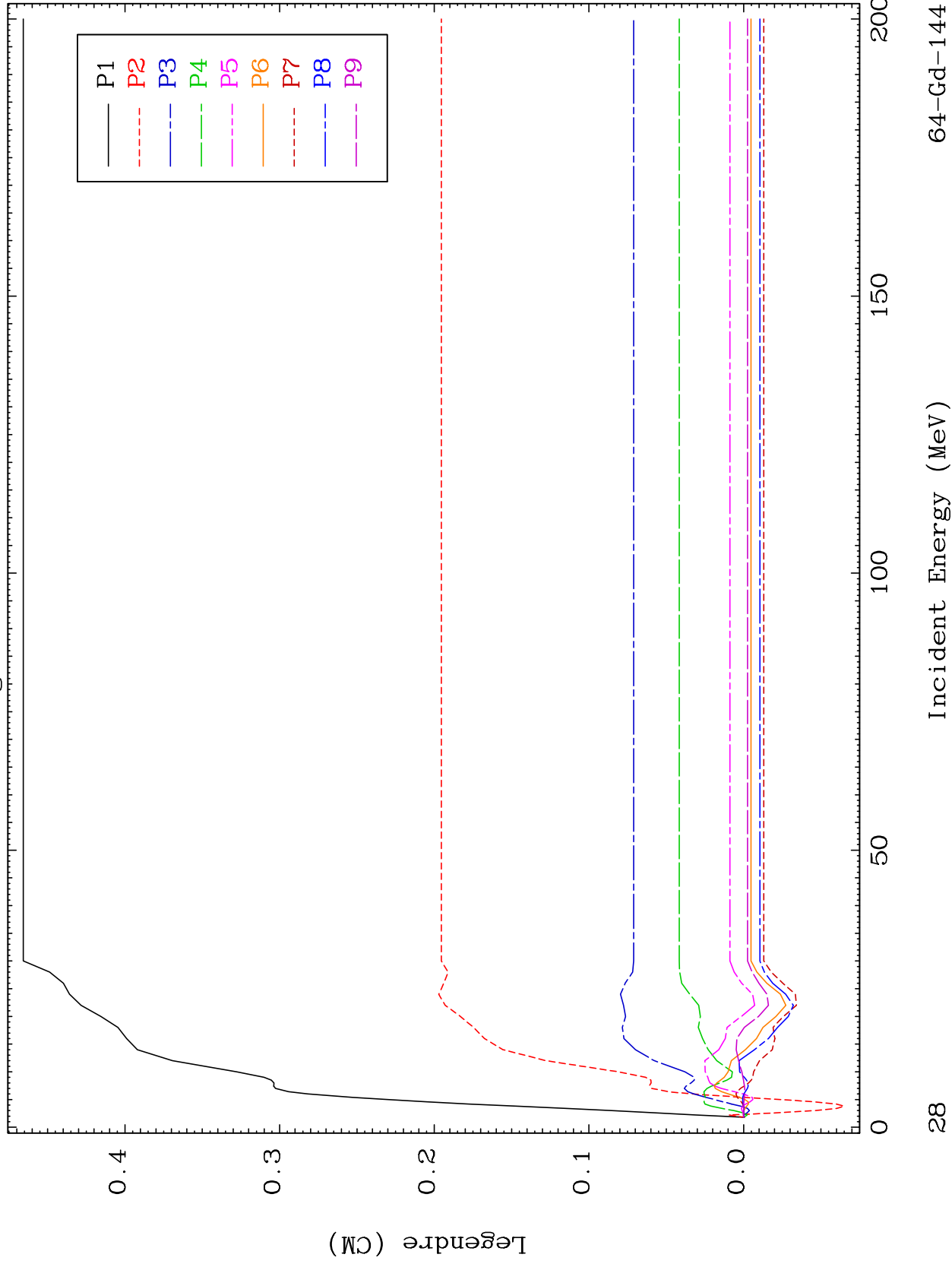
Incident Energy (MeV)

64-Gd-144

MAT 6401

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

64-Gd-144



64-Gd-144

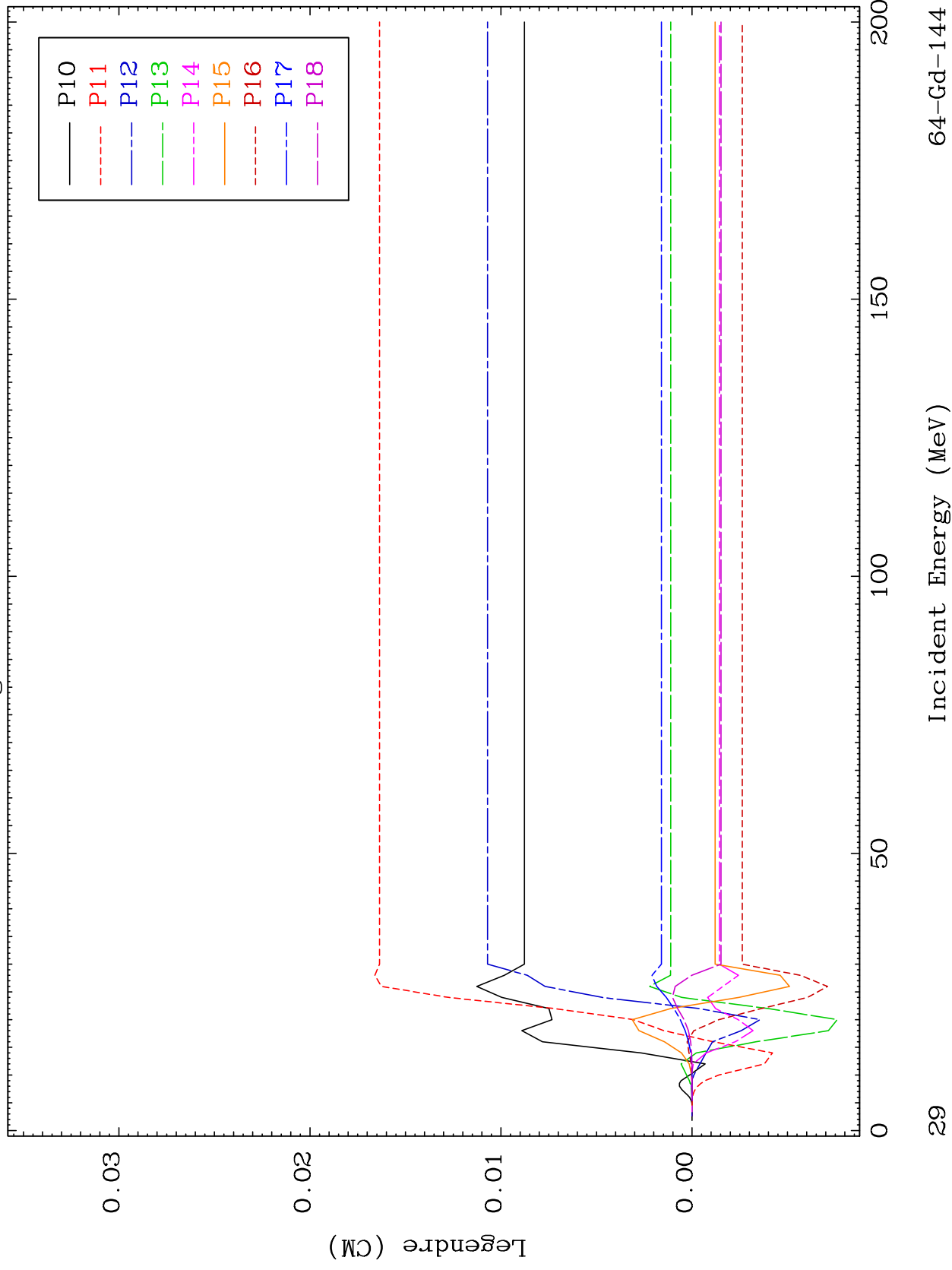
Incident Energy (MeV)

28

MAT 6401

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

64-Gd-144



29

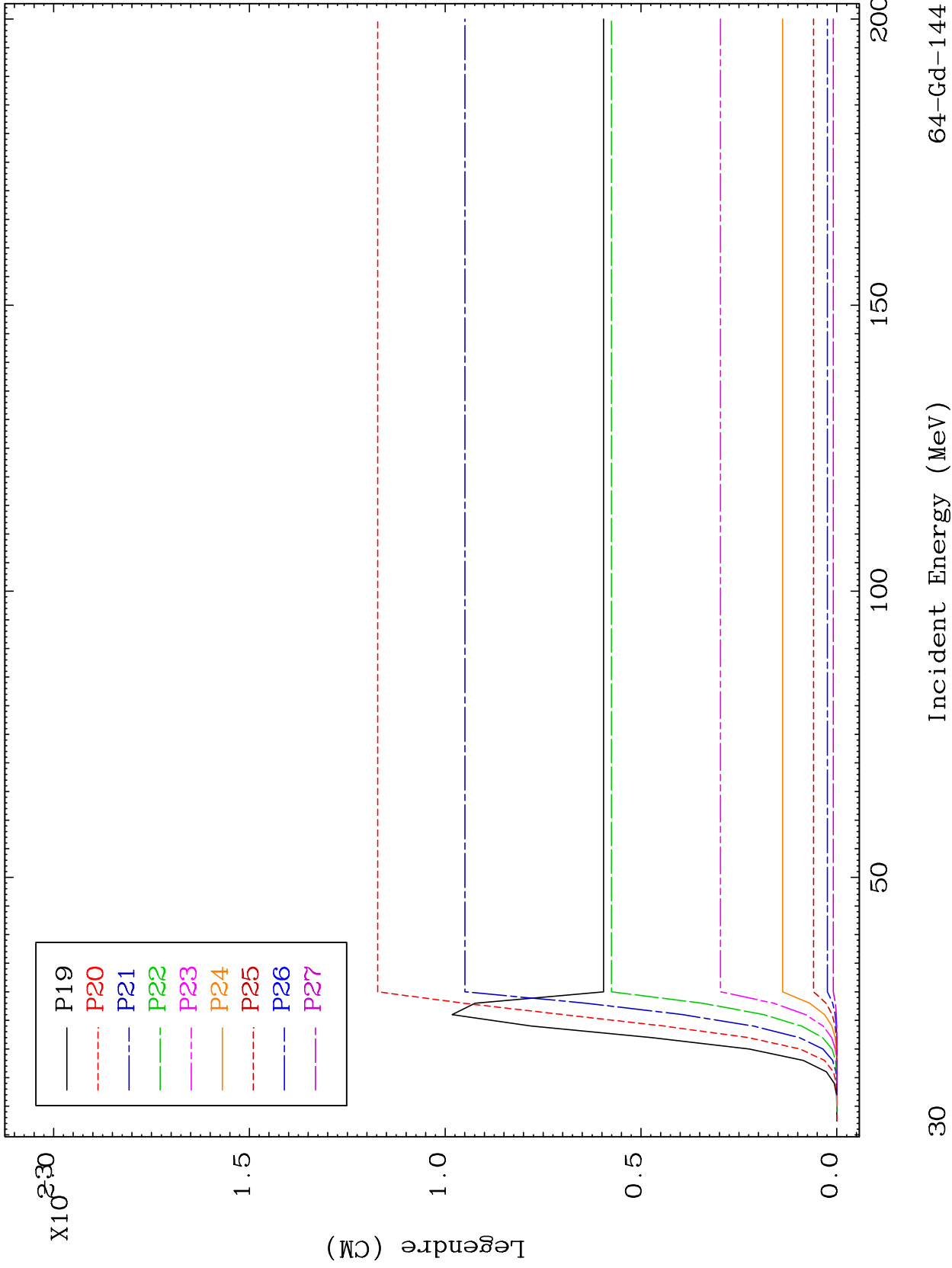
Incident Energy (MeV)

64-Gd-144

MAT 6401

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

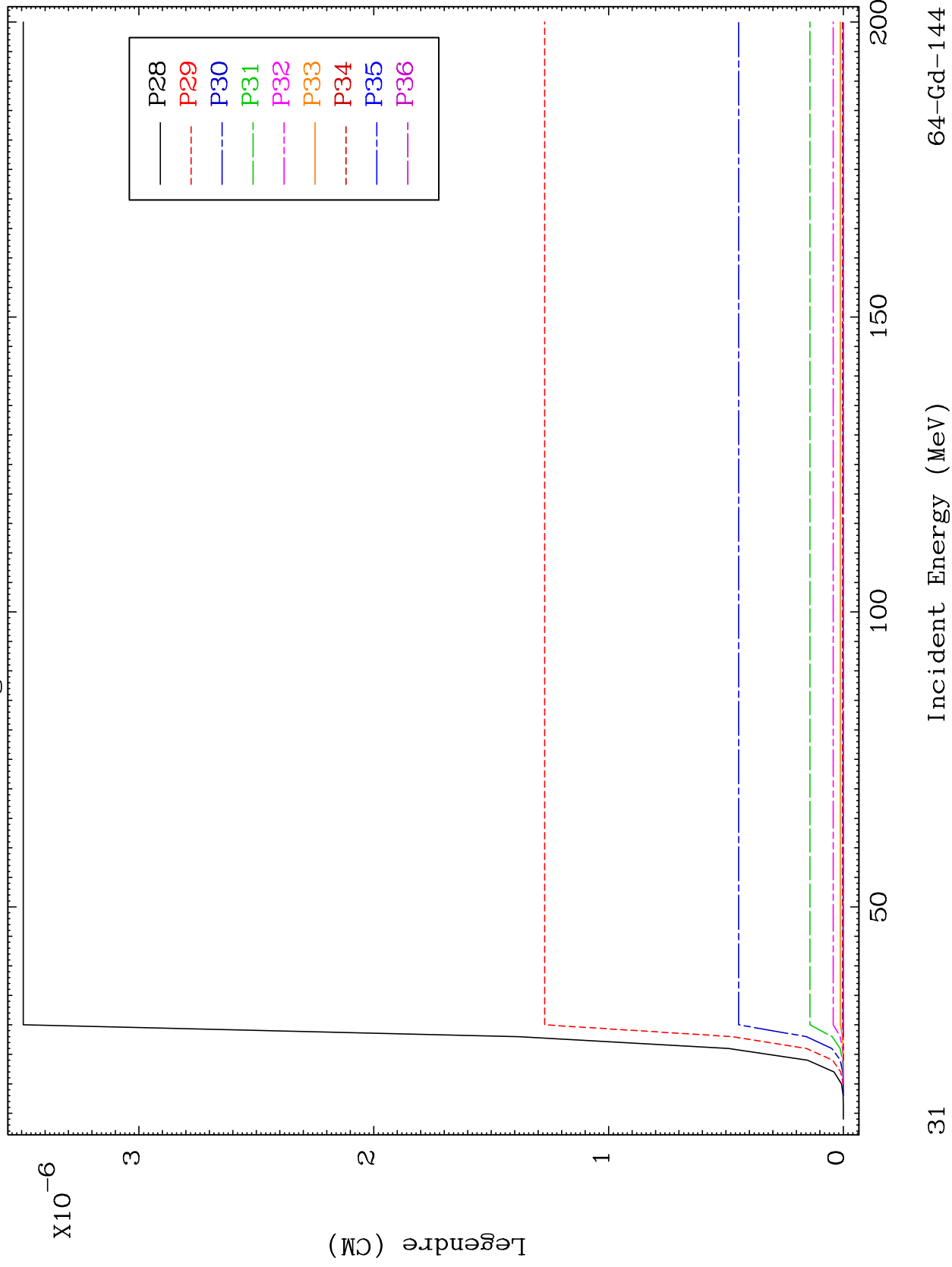
64-Gd-144



MAT 6401

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

64-Gd-144



31

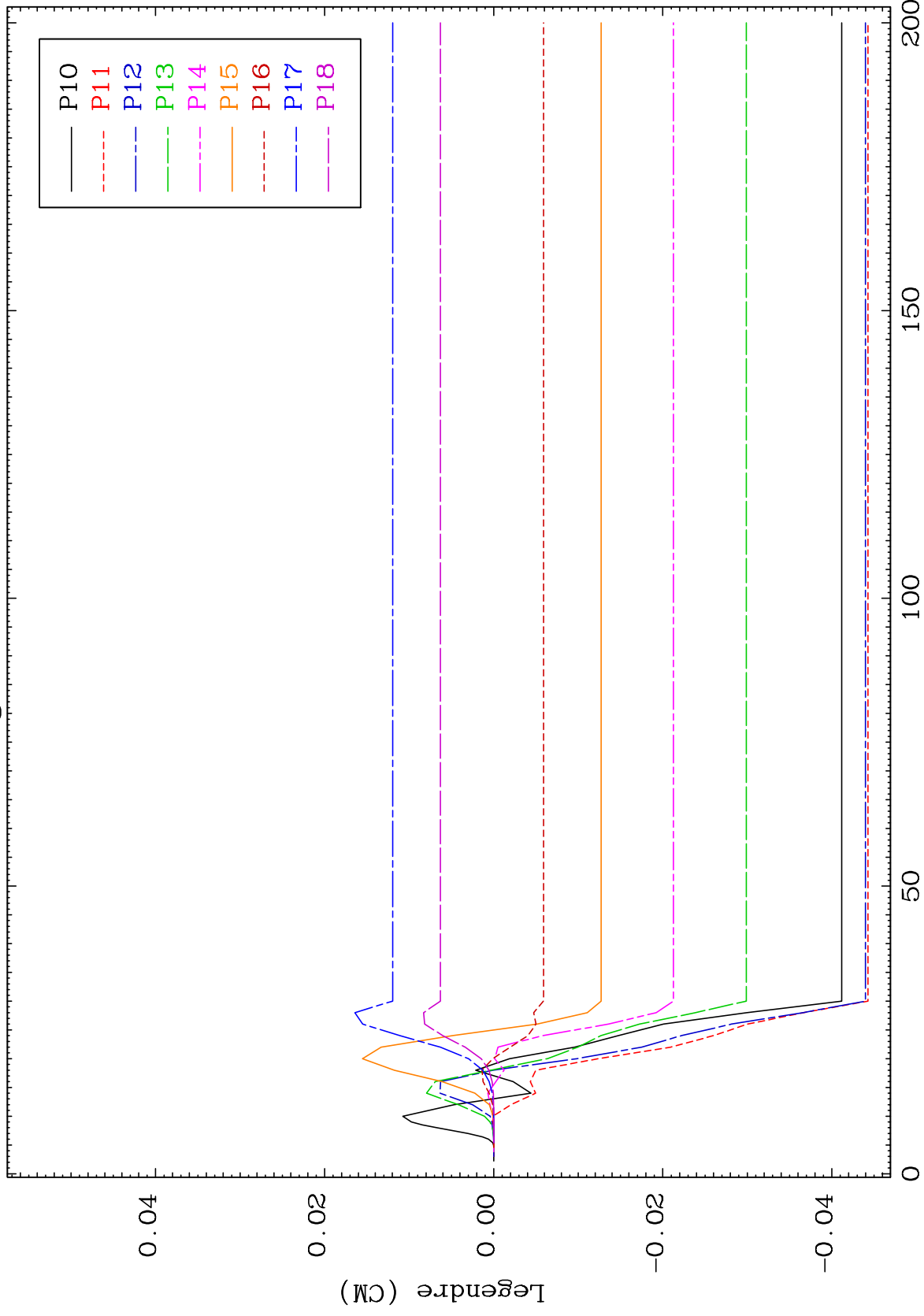
Incident Energy (MeV)

64-Gd-144

MAT 6401

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

64-Gd-144



33

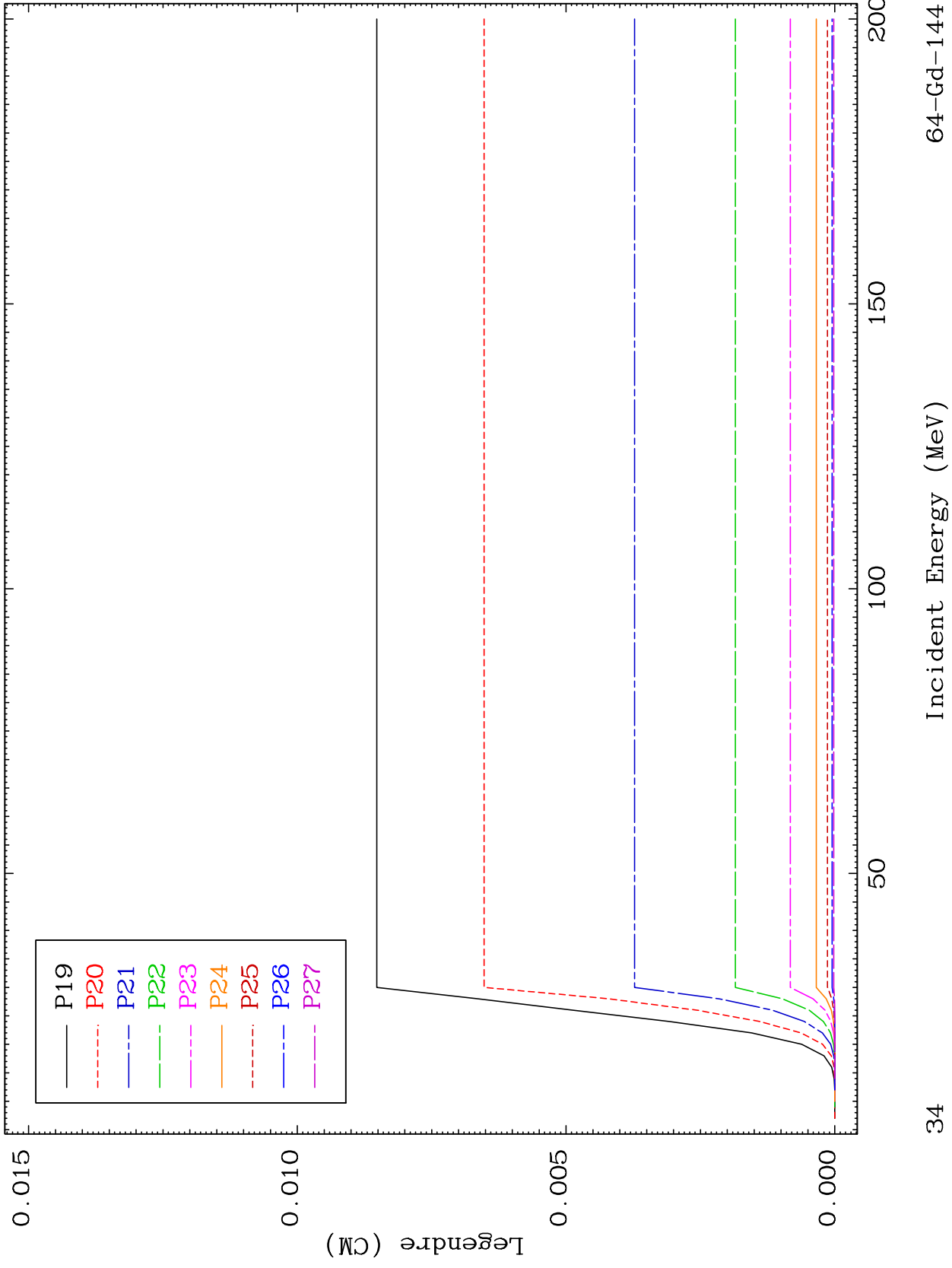
Incident Energy (MeV)

64-Gd-144

MAT 6401

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

64-Gd-144



34

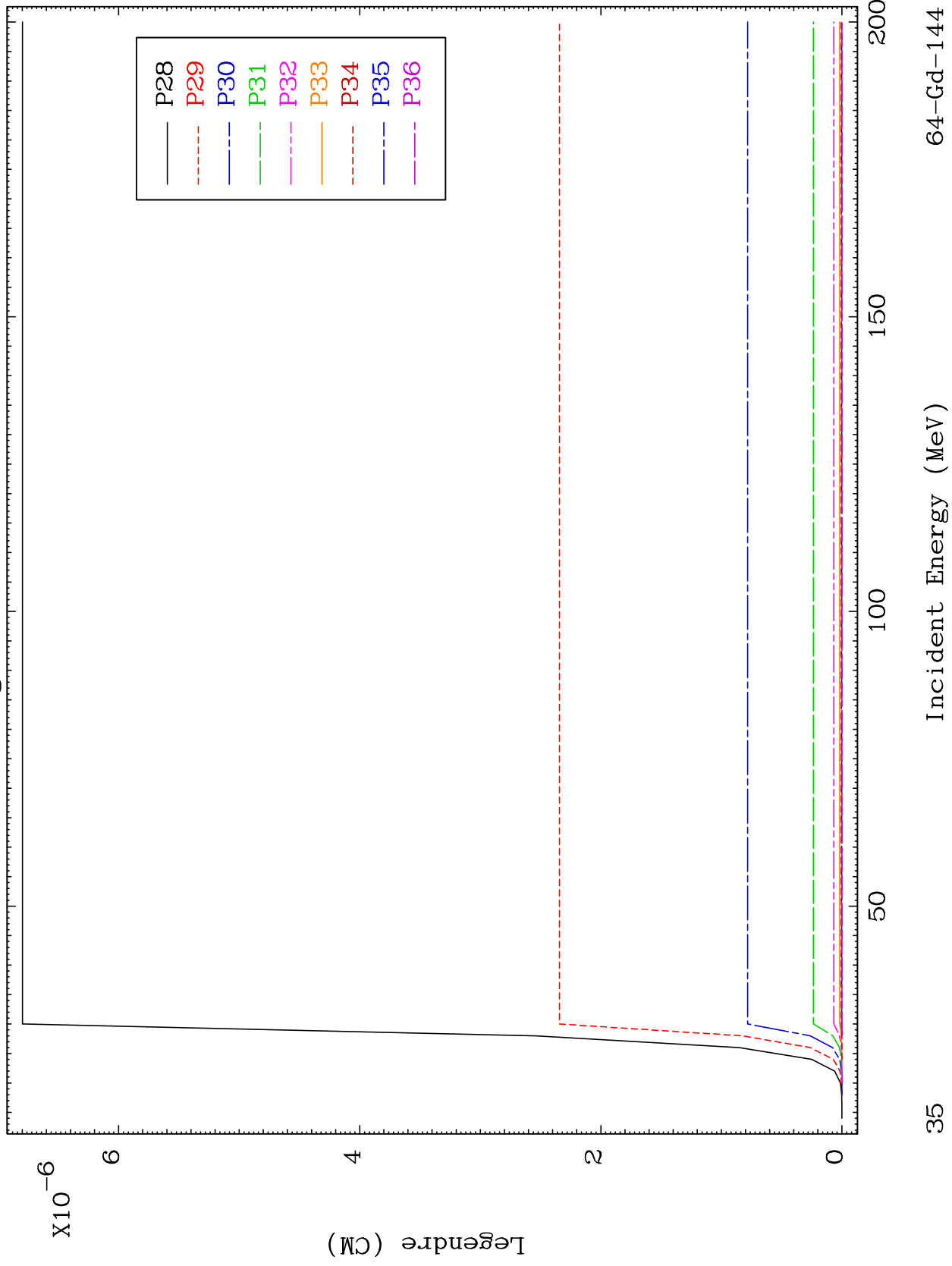
Incident Energy (MeV)

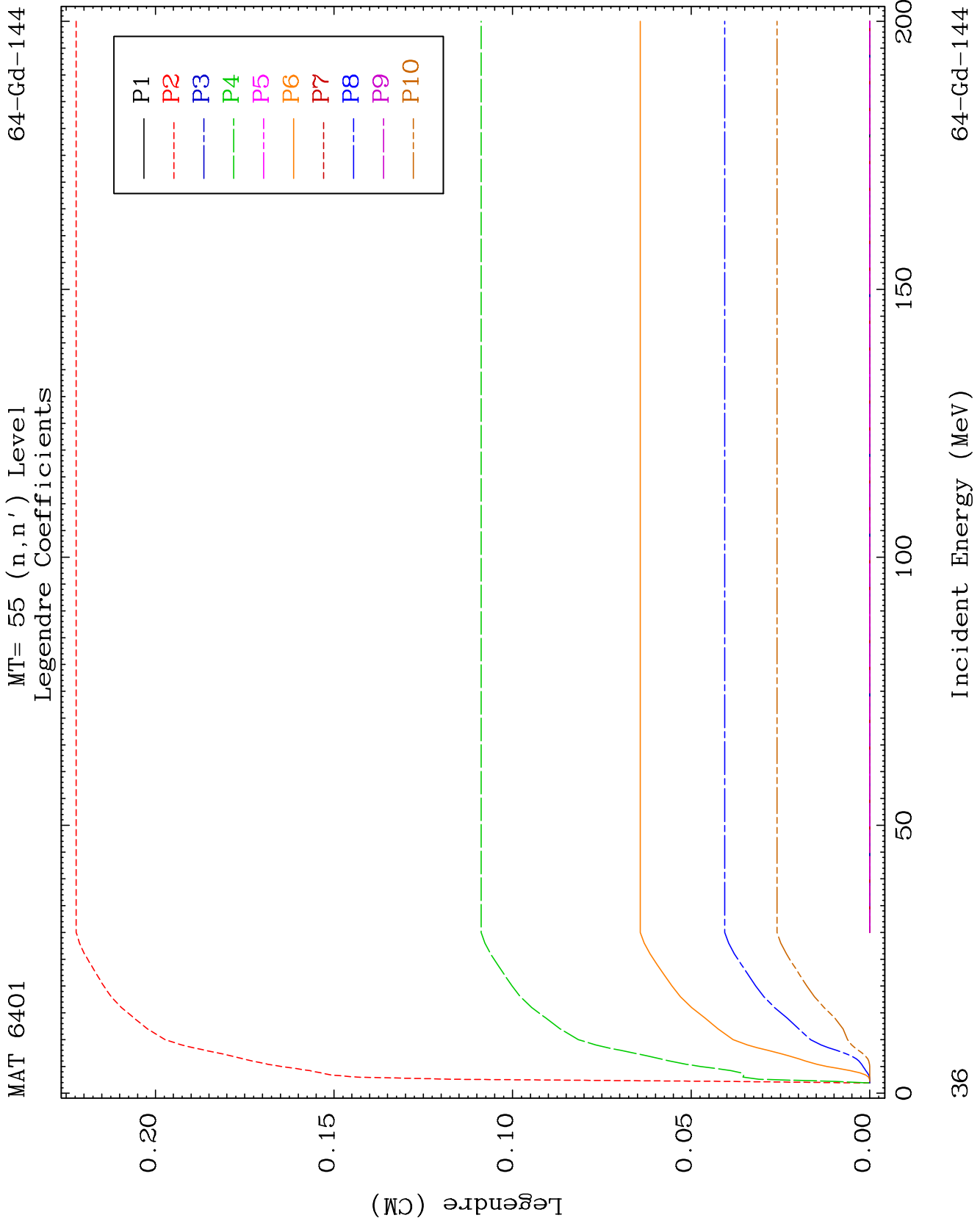
64-Gd-144

MAT 6401

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

64-Gd-144

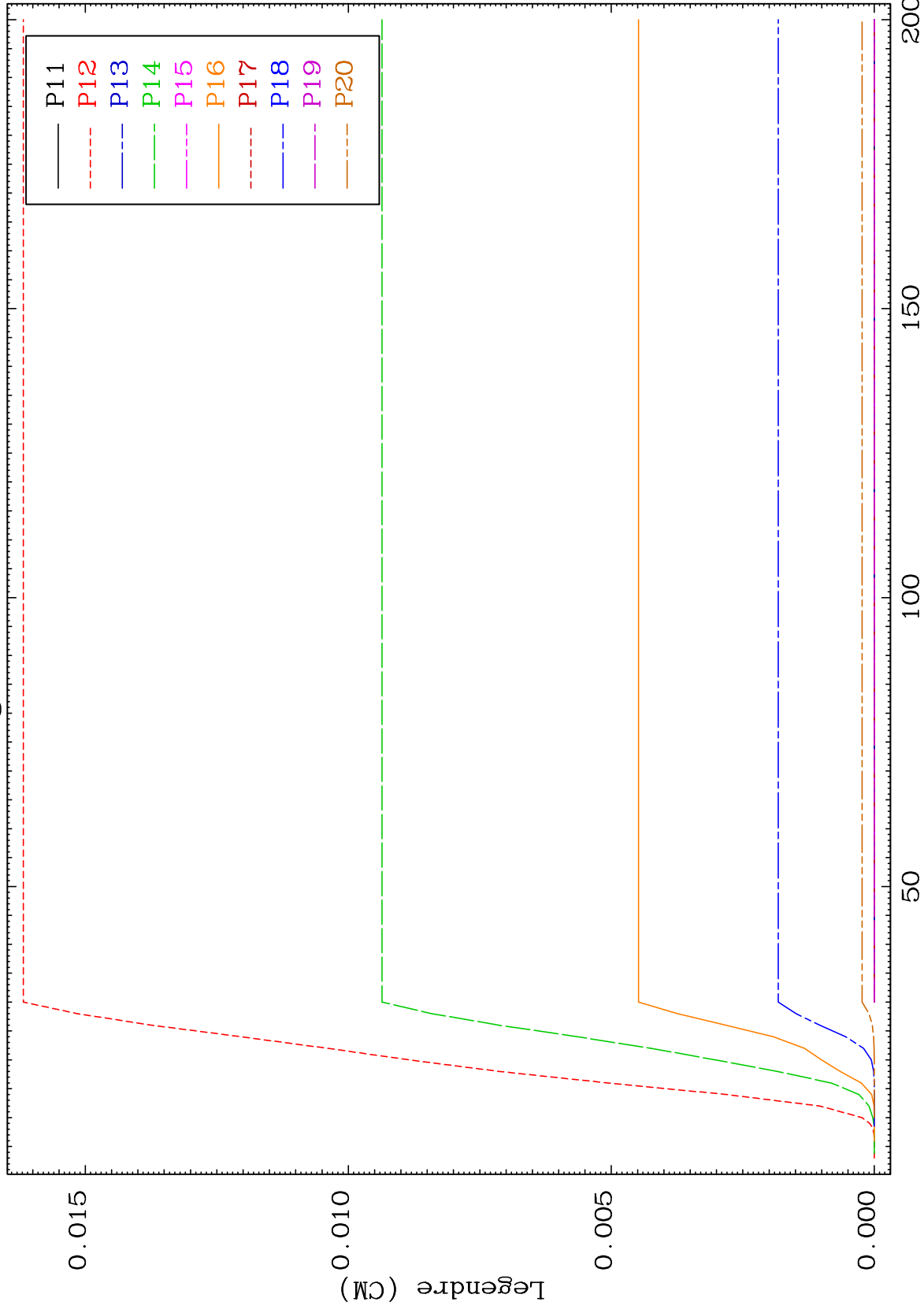




MAT 6401

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

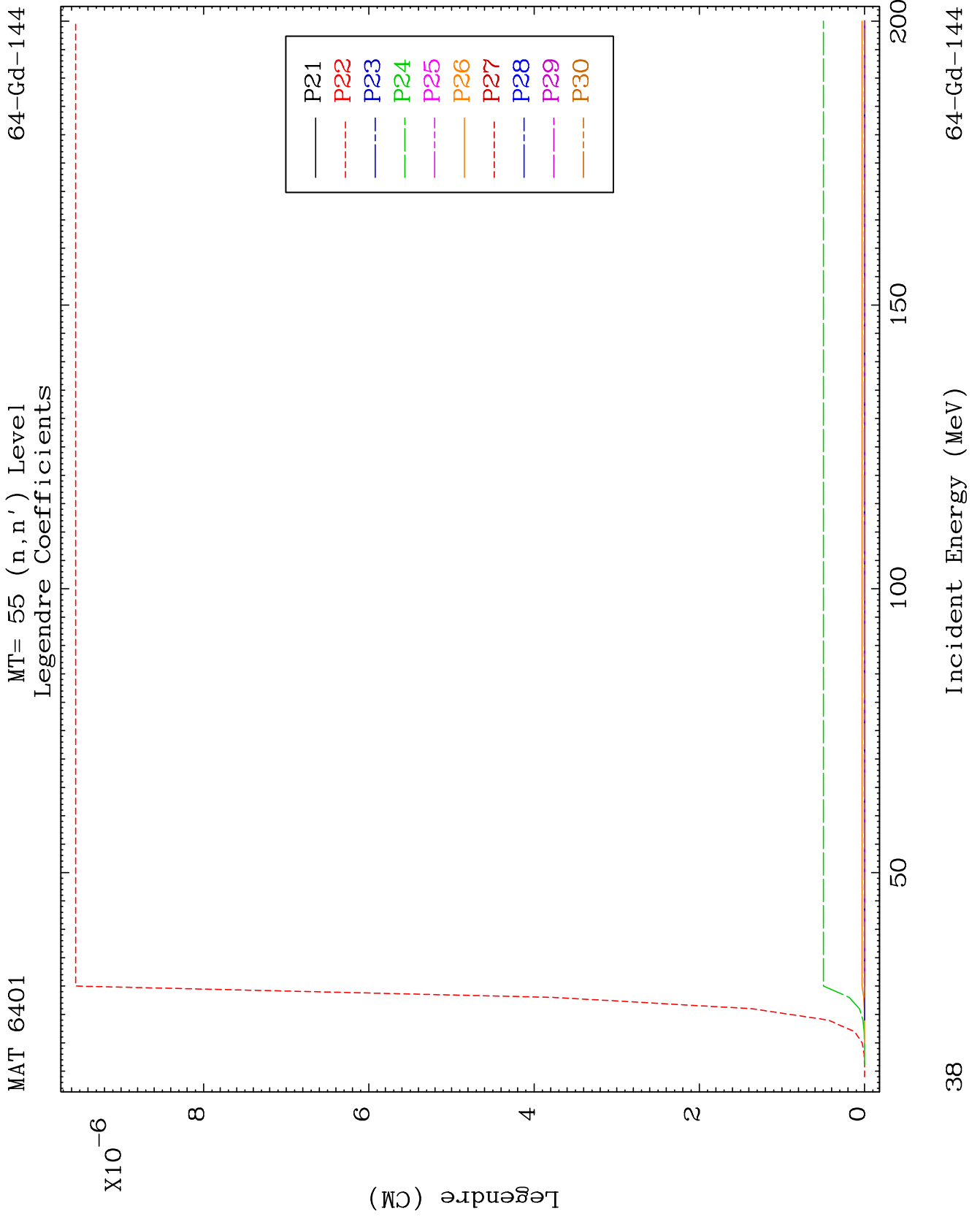
64-Gd-144

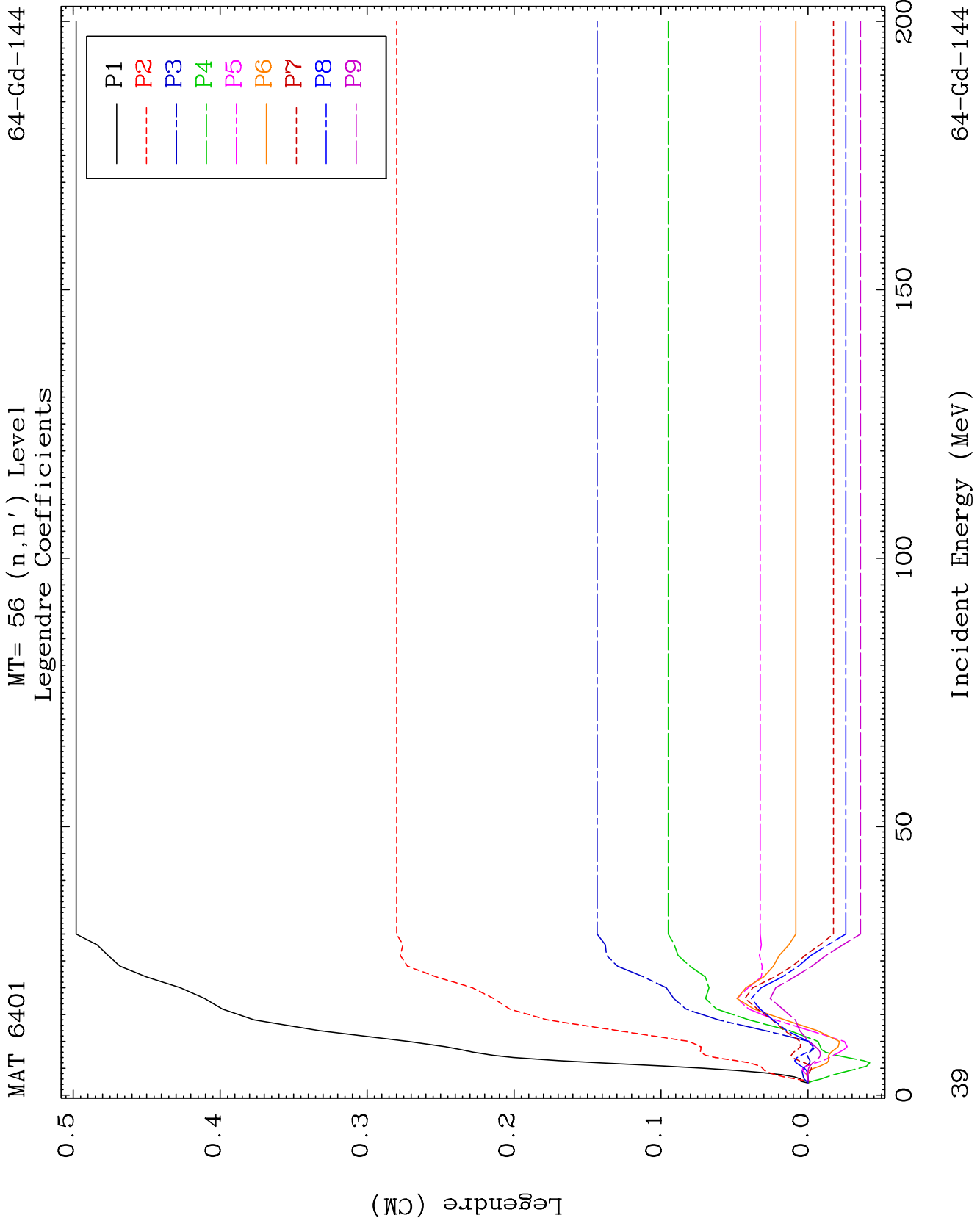


37

Incident Energy (MeV)

64-Gd-144

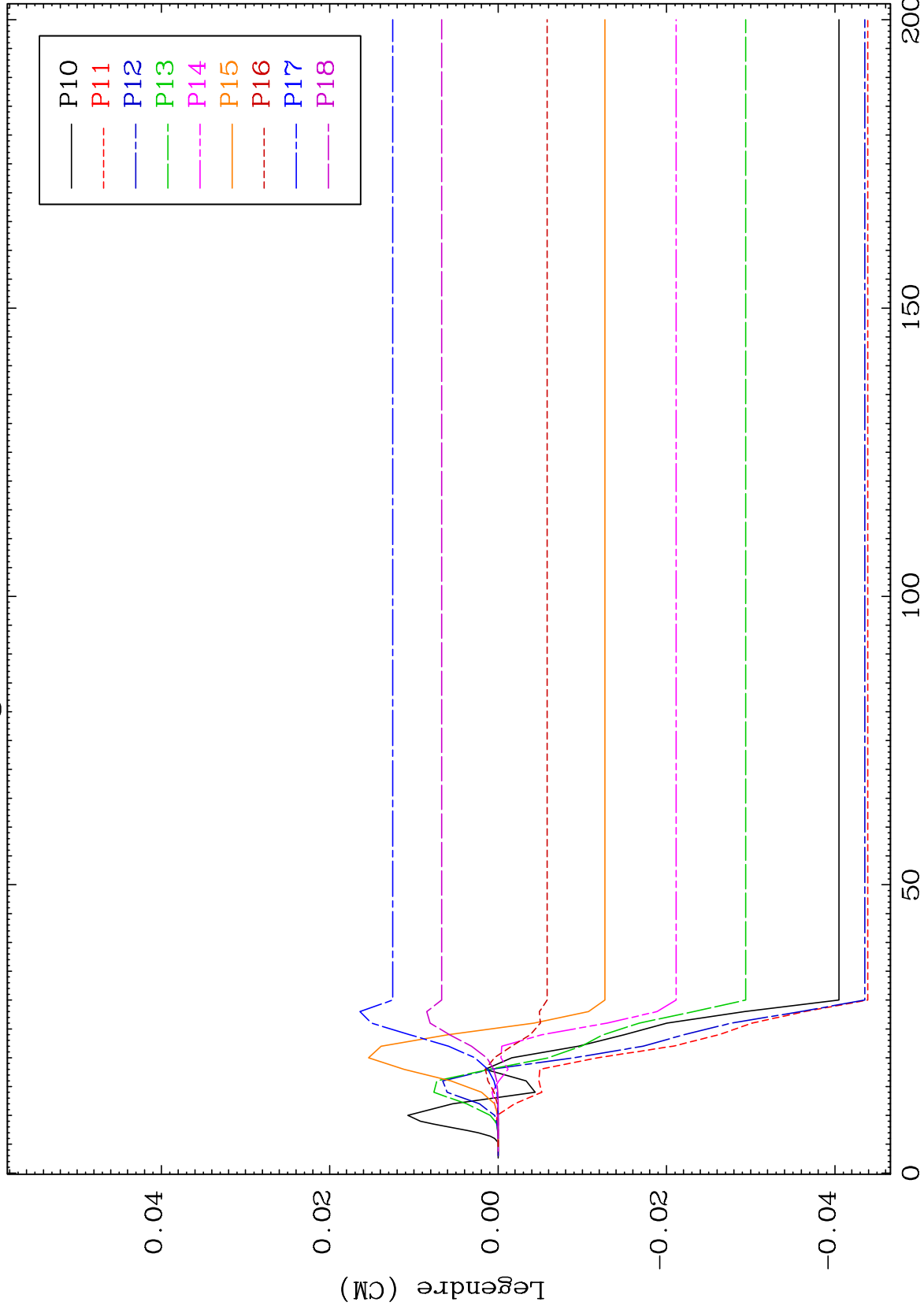




MAT 6401

MT= 56 (n,n') Level
Legendre Coefficients

64-Gd-144



64-Gd-144

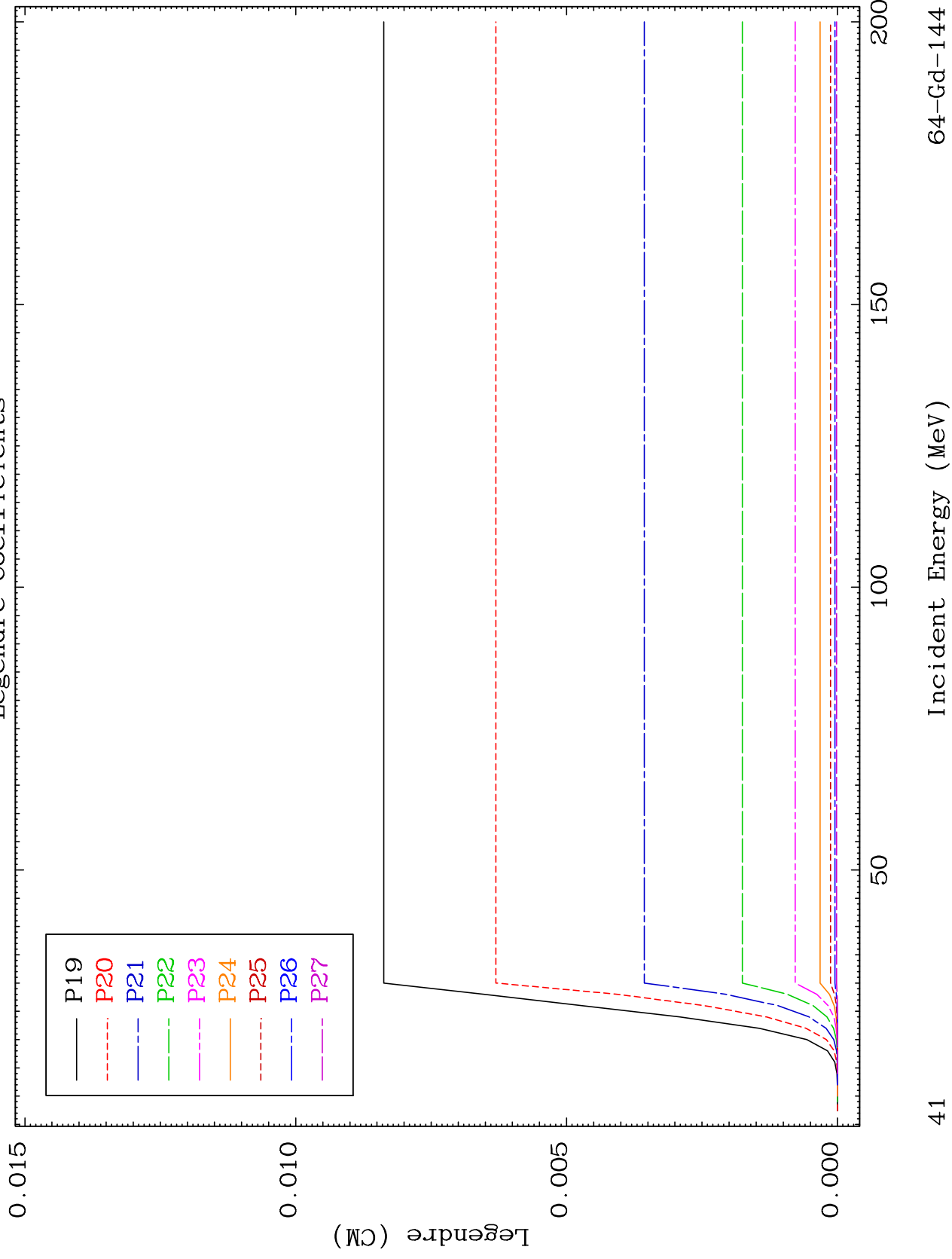
Incident Energy (MeV)

40

MAT 6401

MT= 56 (n,n') Level
Legendre Coefficients

64-Gd-144



41

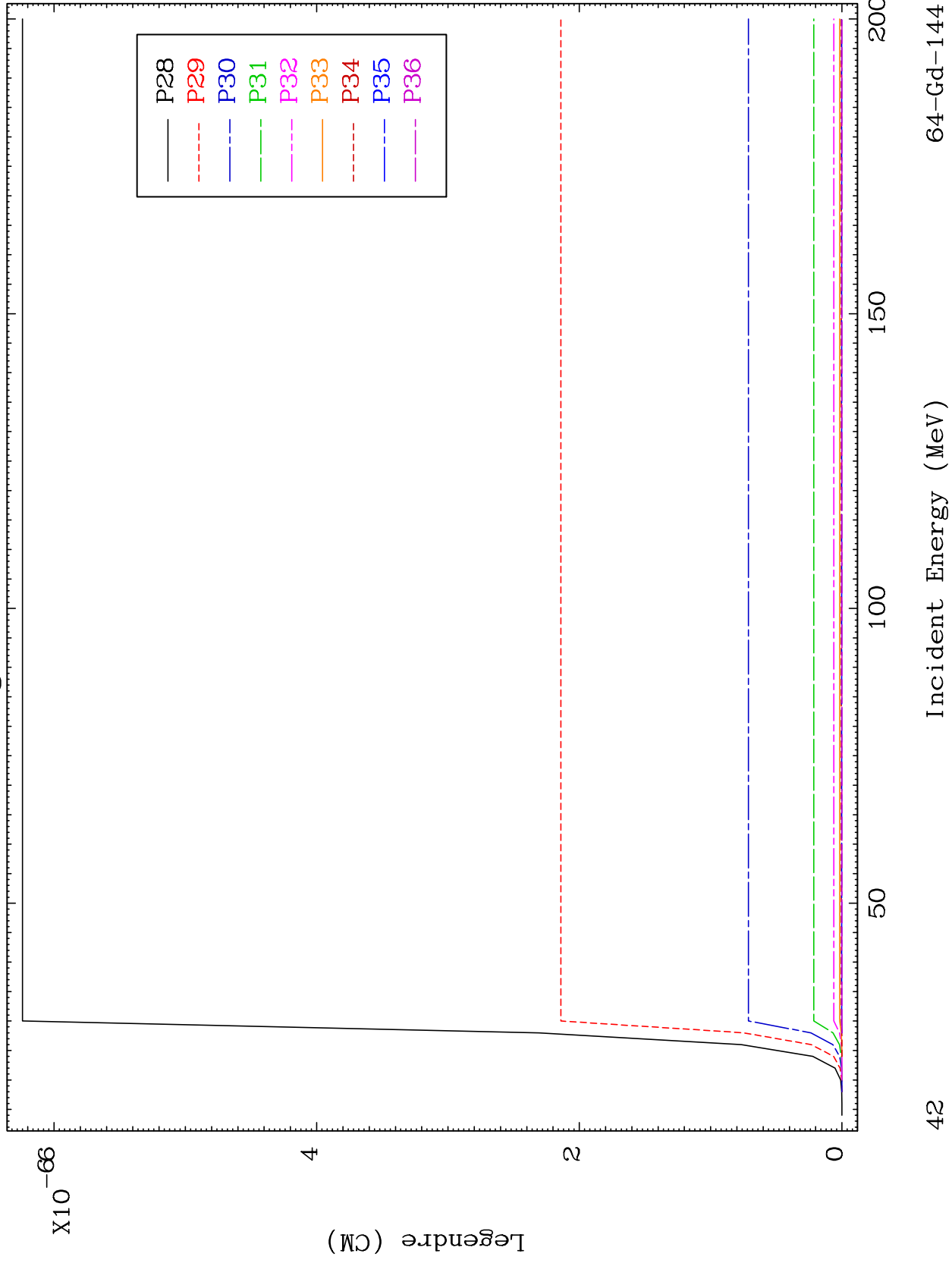
Incident Energy (MeV)

64-Gd-144

MAT 6401

MT= 56 (n,n') Level
Legendre Coefficients

64-Gd-144



42

Incident Energy (MeV)

64-Gd-144

200

150

100

50

4

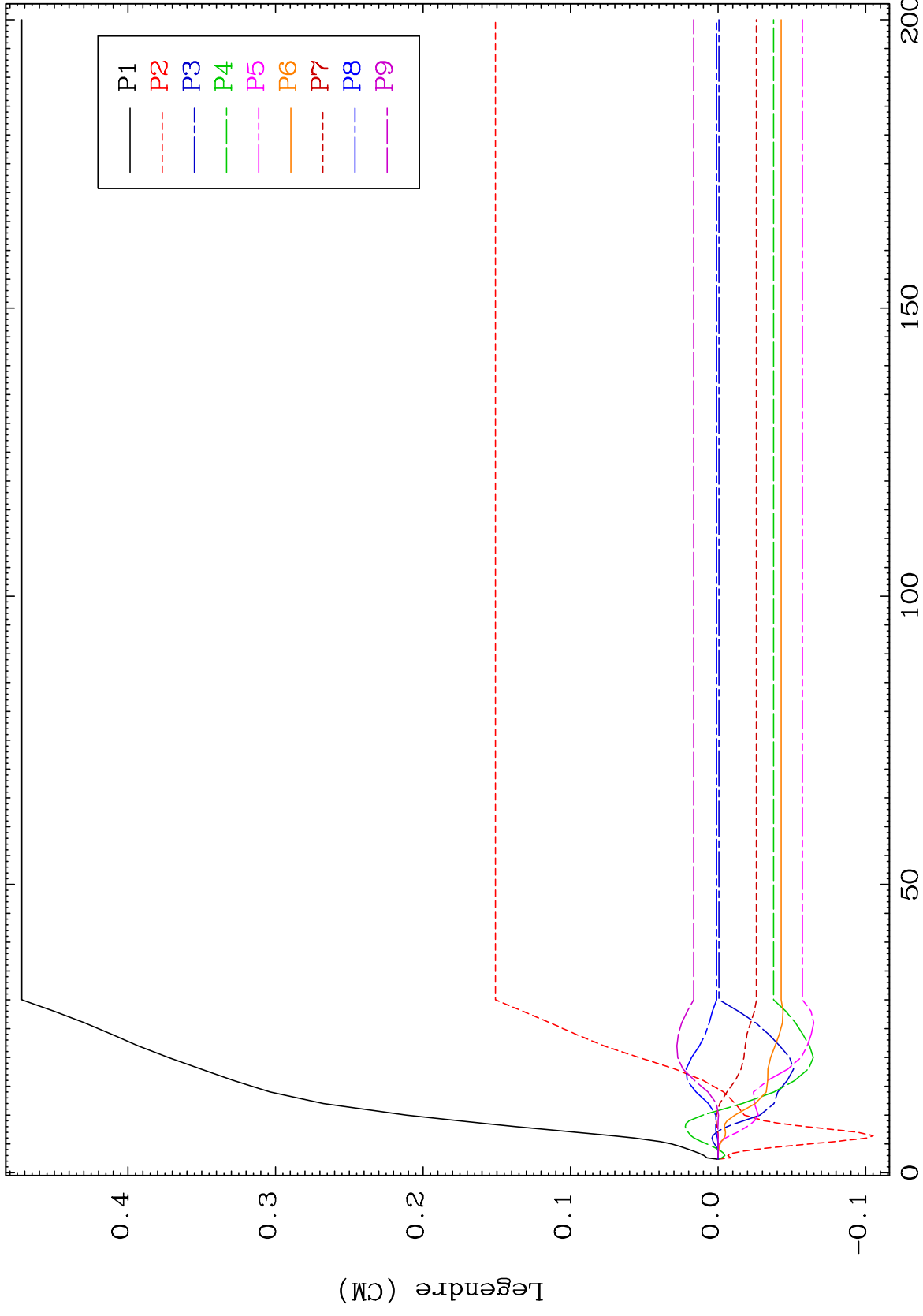
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MAT 6401

MT= 57 (n,n') Level
Legendre Coefficients

64-Gd-144



43

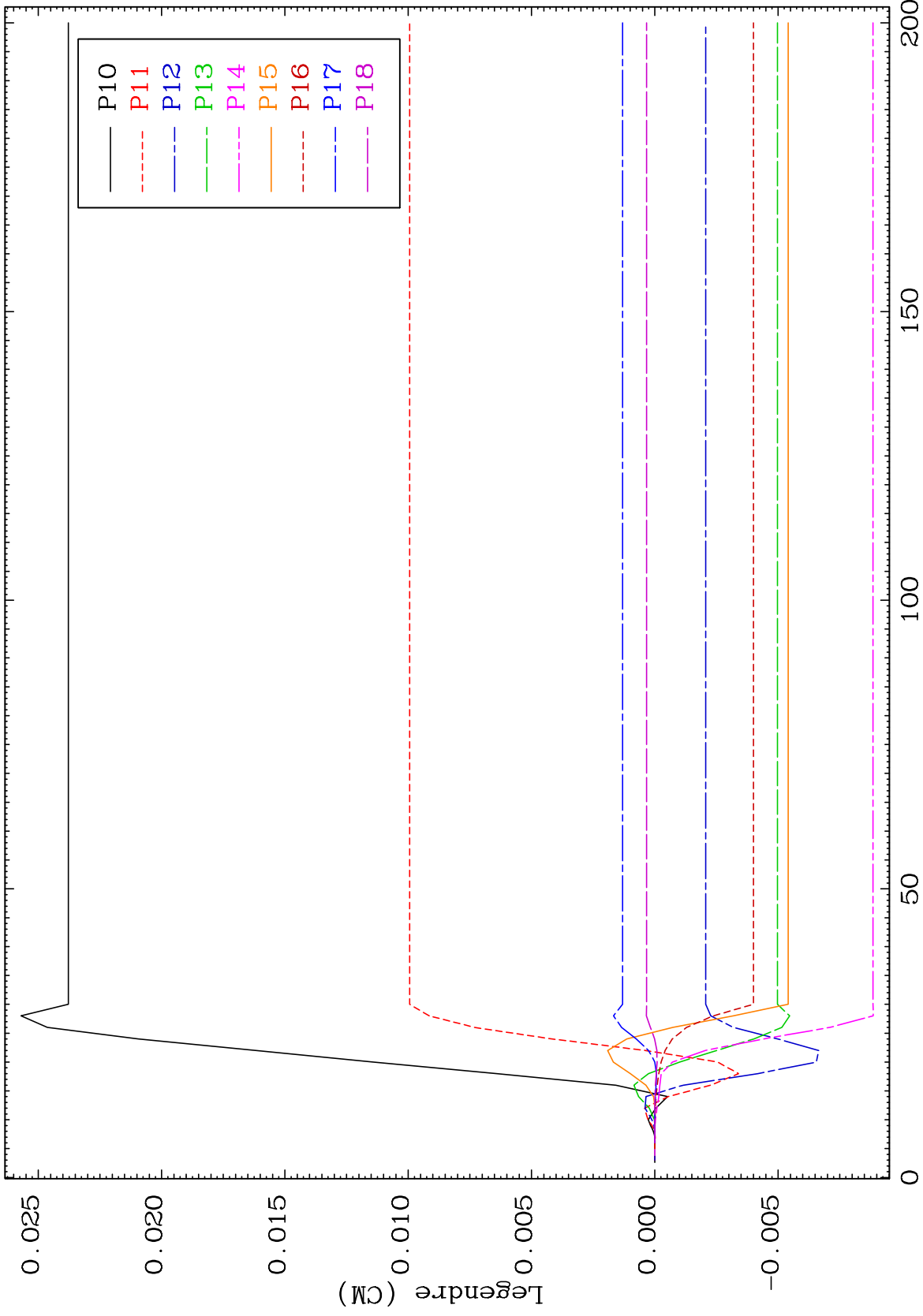
Incident Energy (MeV)

64-Gd-144

MAT 6401

MT= 57 (n,n') Level
Legendre Coefficients

64-Gd-144



44

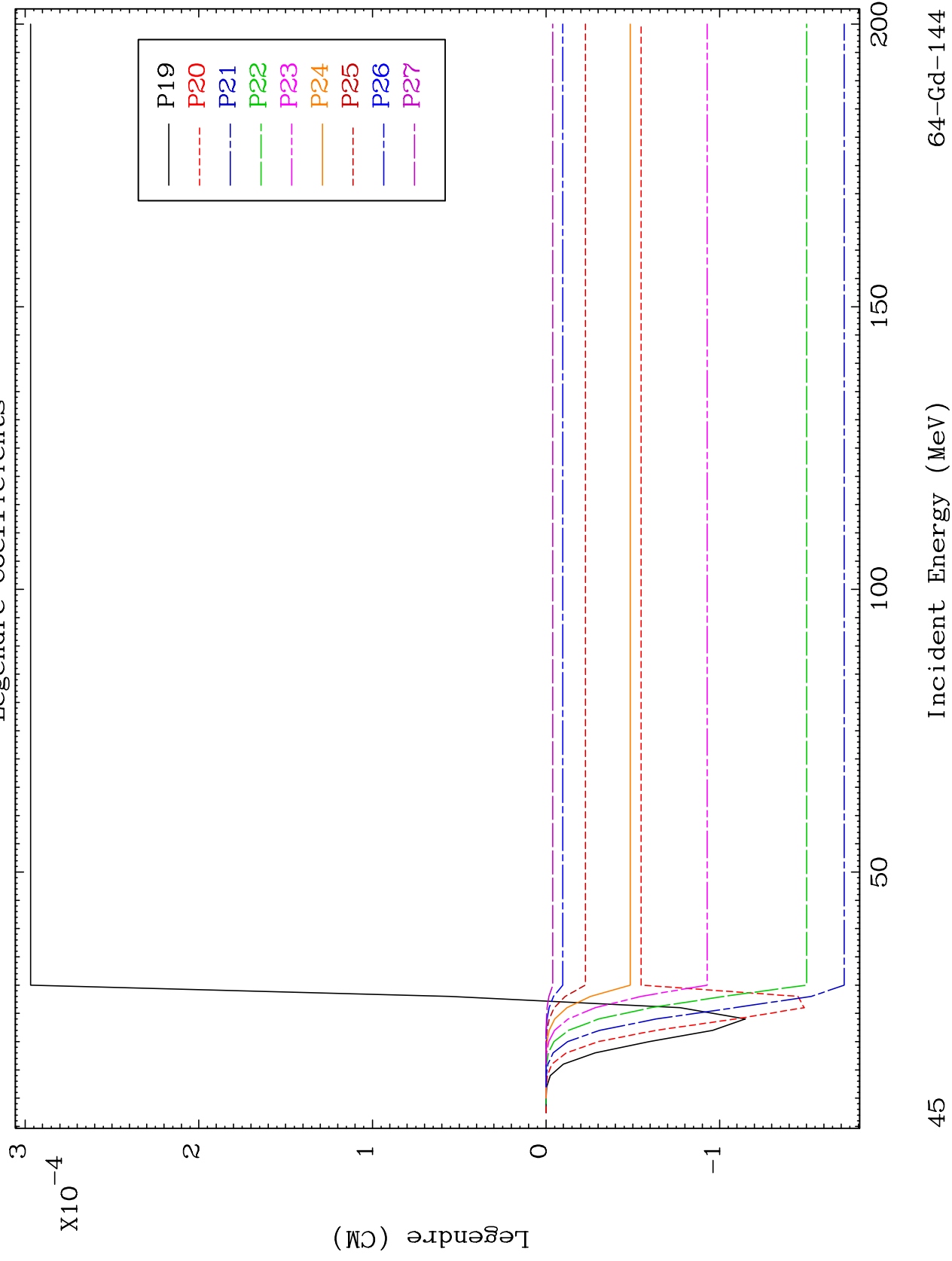
Incident Energy (MeV)

64-Gd-144

MAT 6401

MT= 57 (n,n') Level
Legendre Coefficients

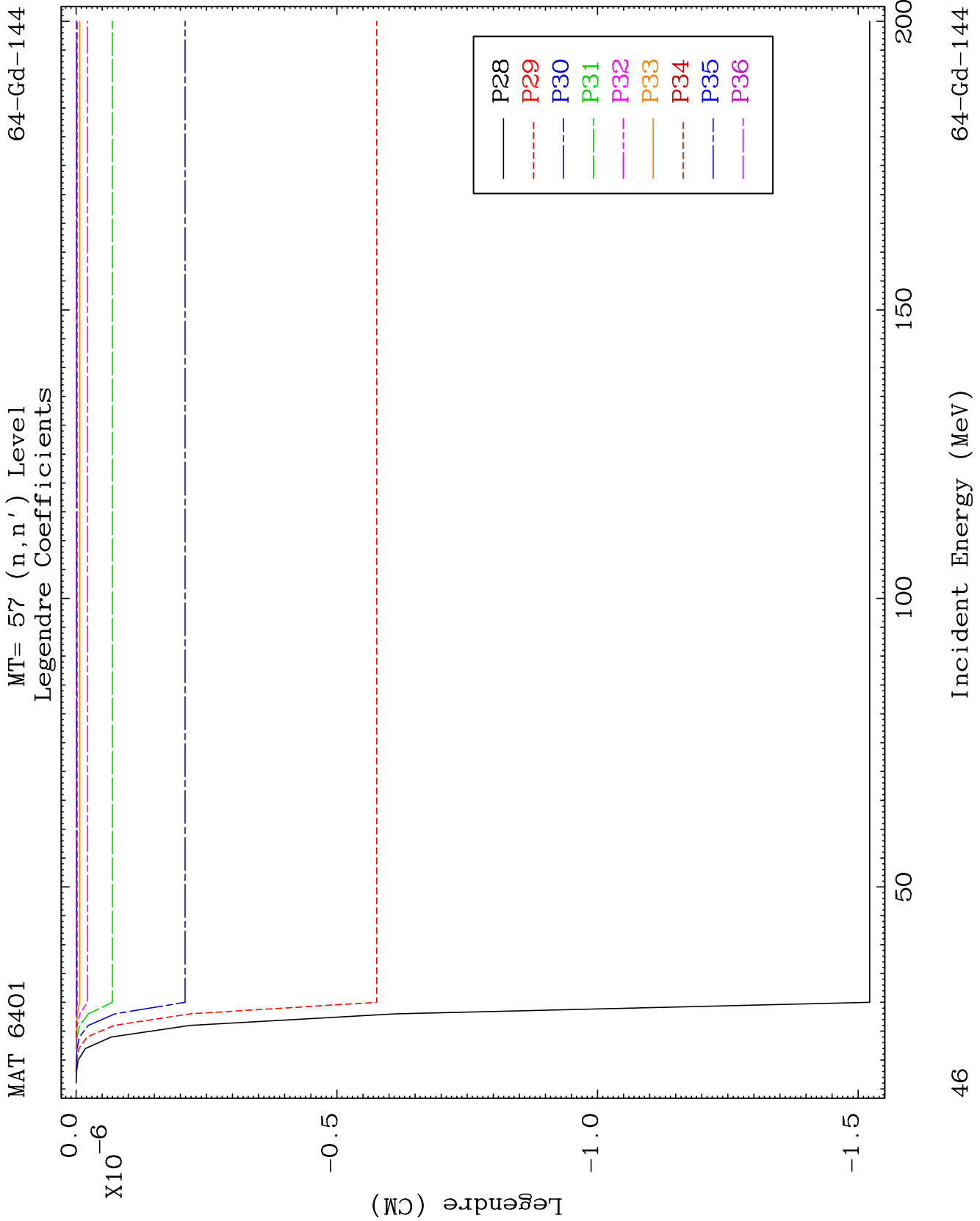
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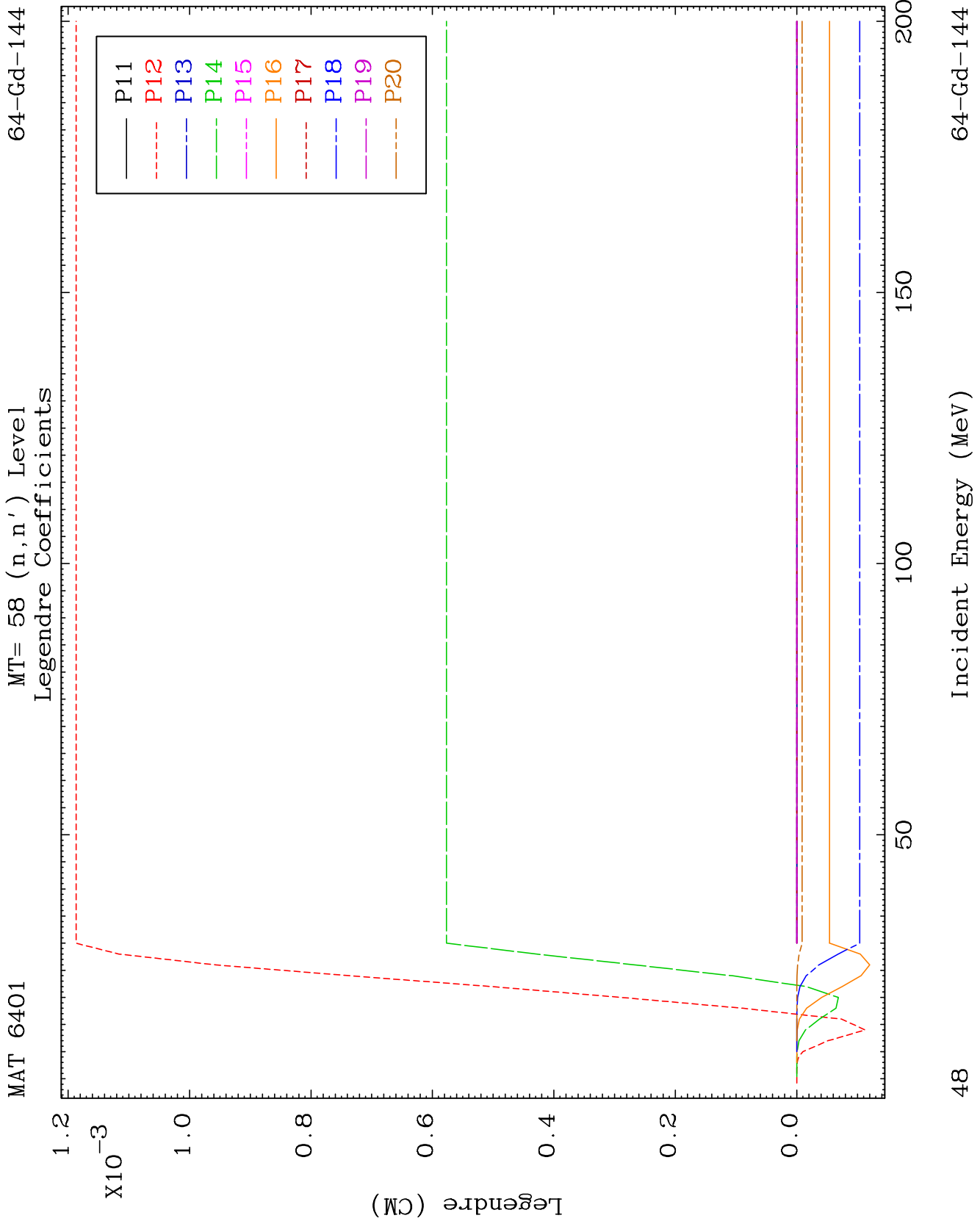


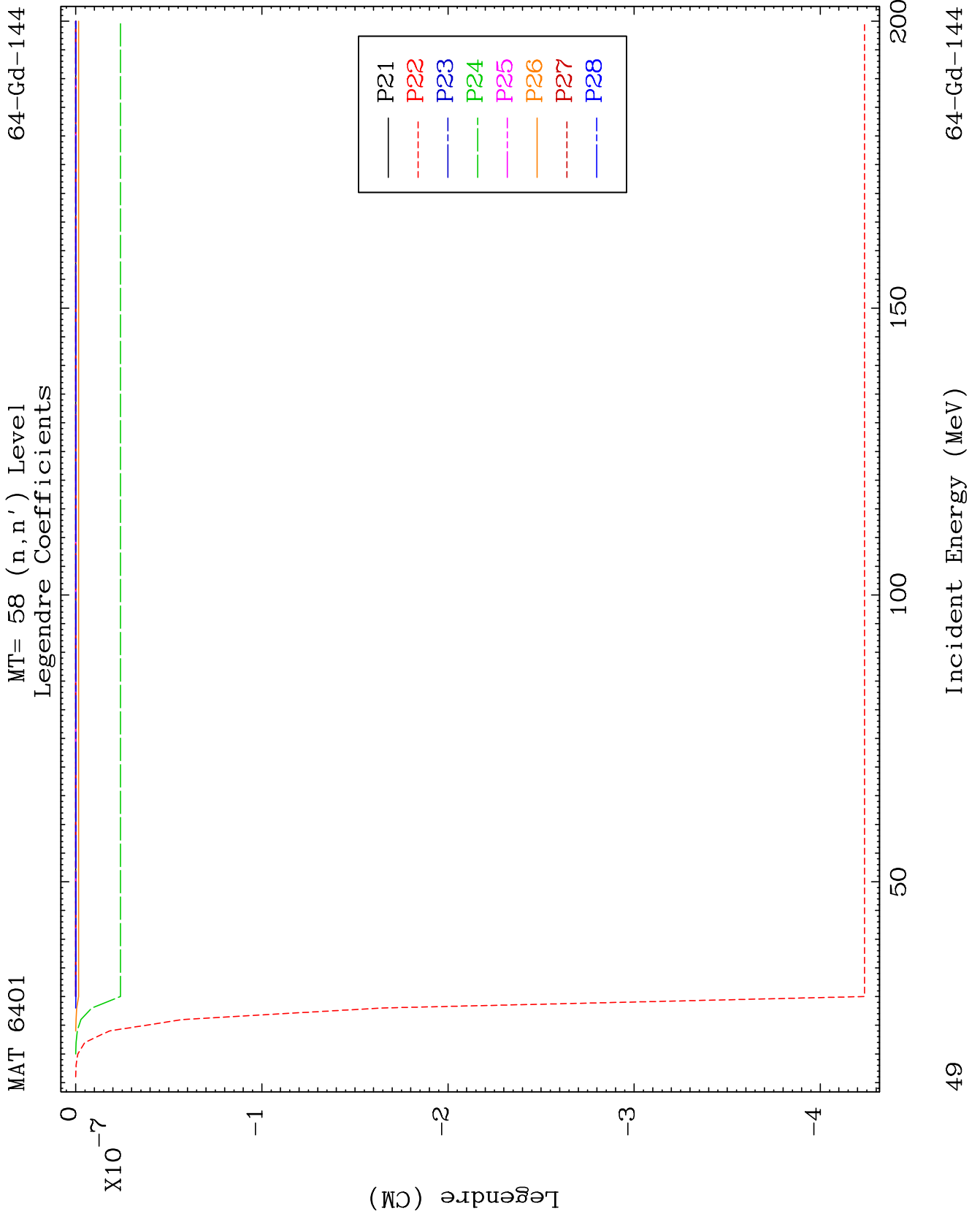
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Incident Energy (MeV)

64-Gd-144



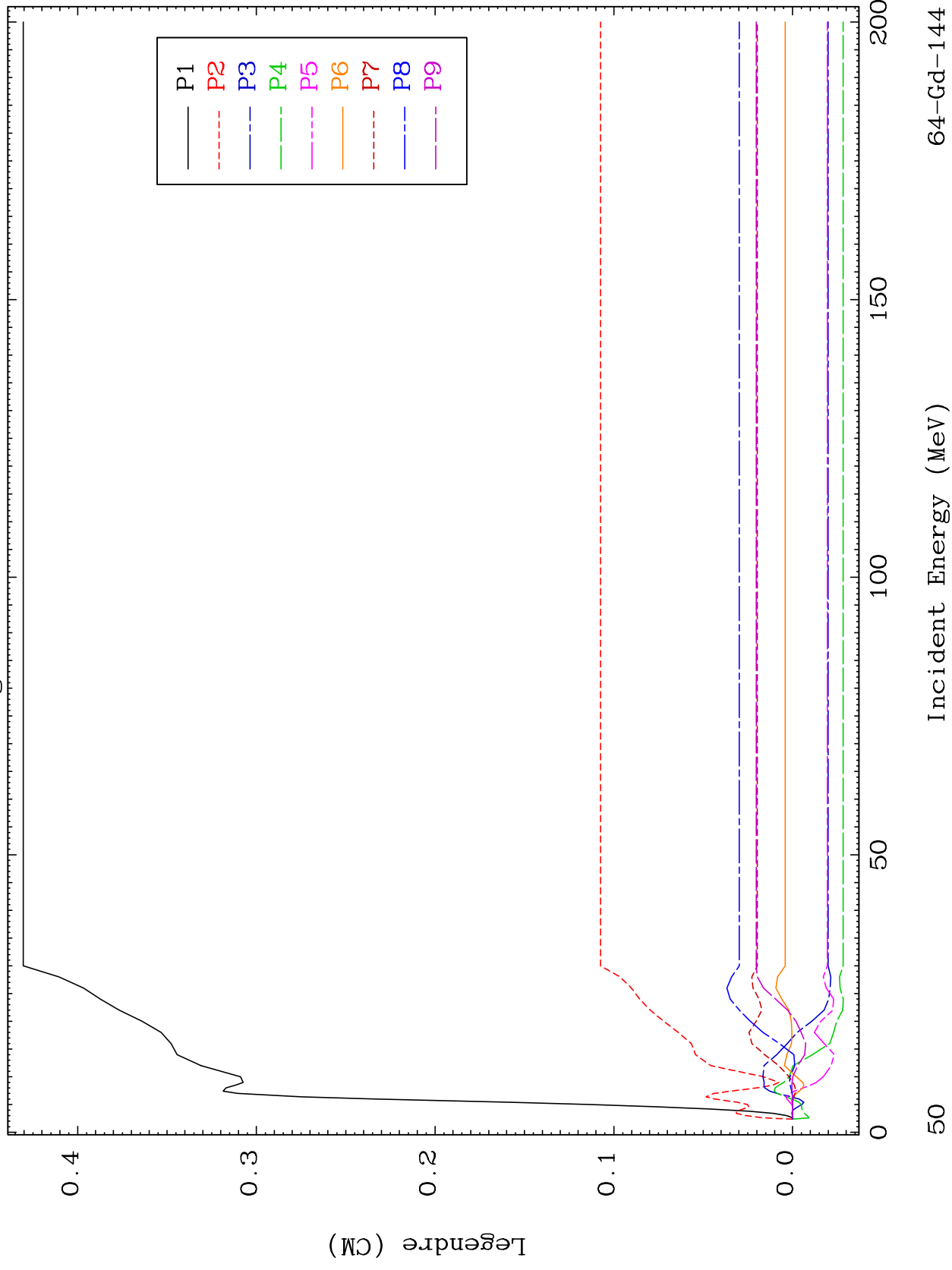




MAT 6401

MT= 59 (n,n') Level
Legendre Coefficients

64-Gd-144



64-Gd-144

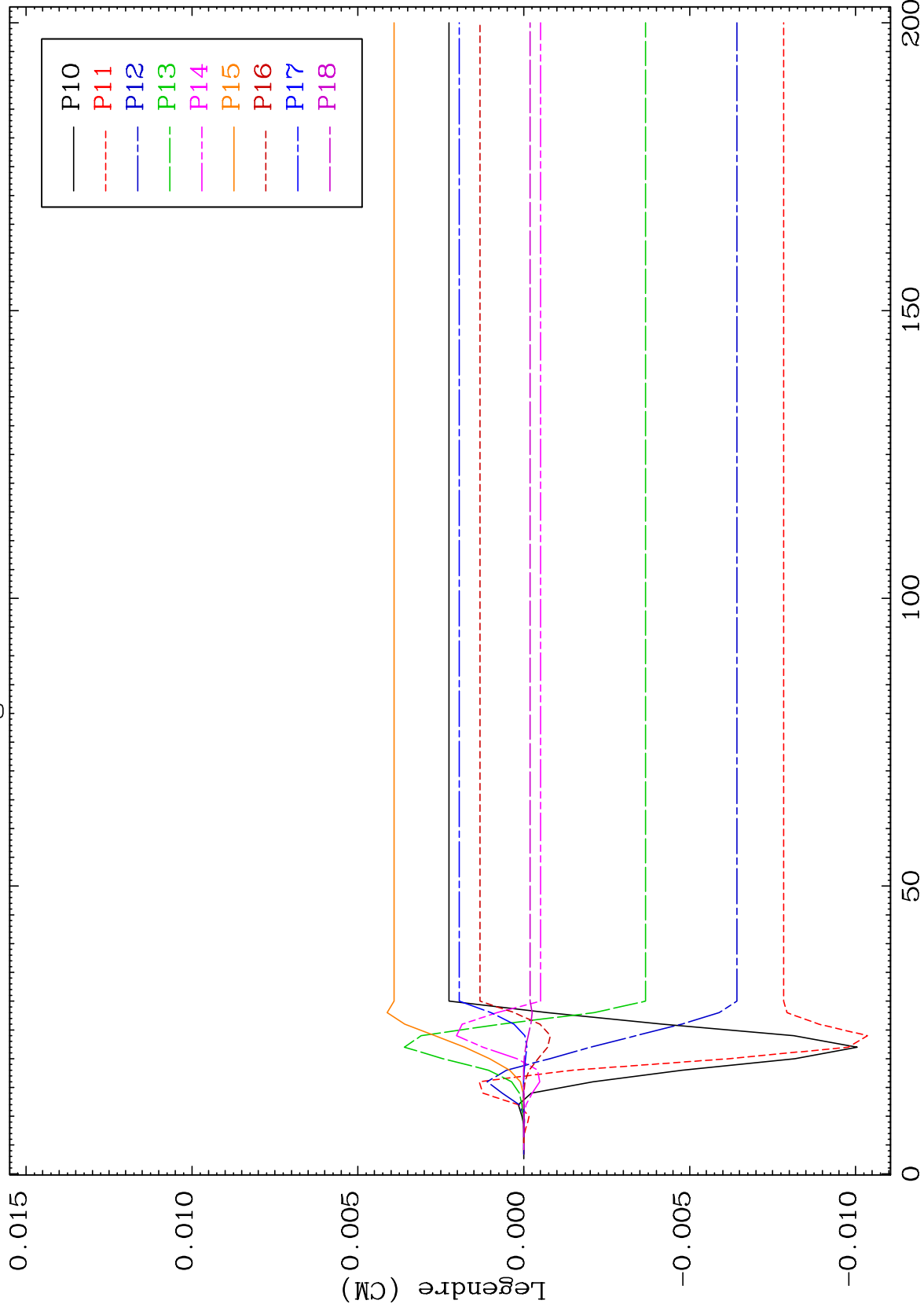
Incident Energy (MeV)

50

MAT 6401

MT= 59 (n,n') Level
Legendre Coefficients

64-Gd-144



51

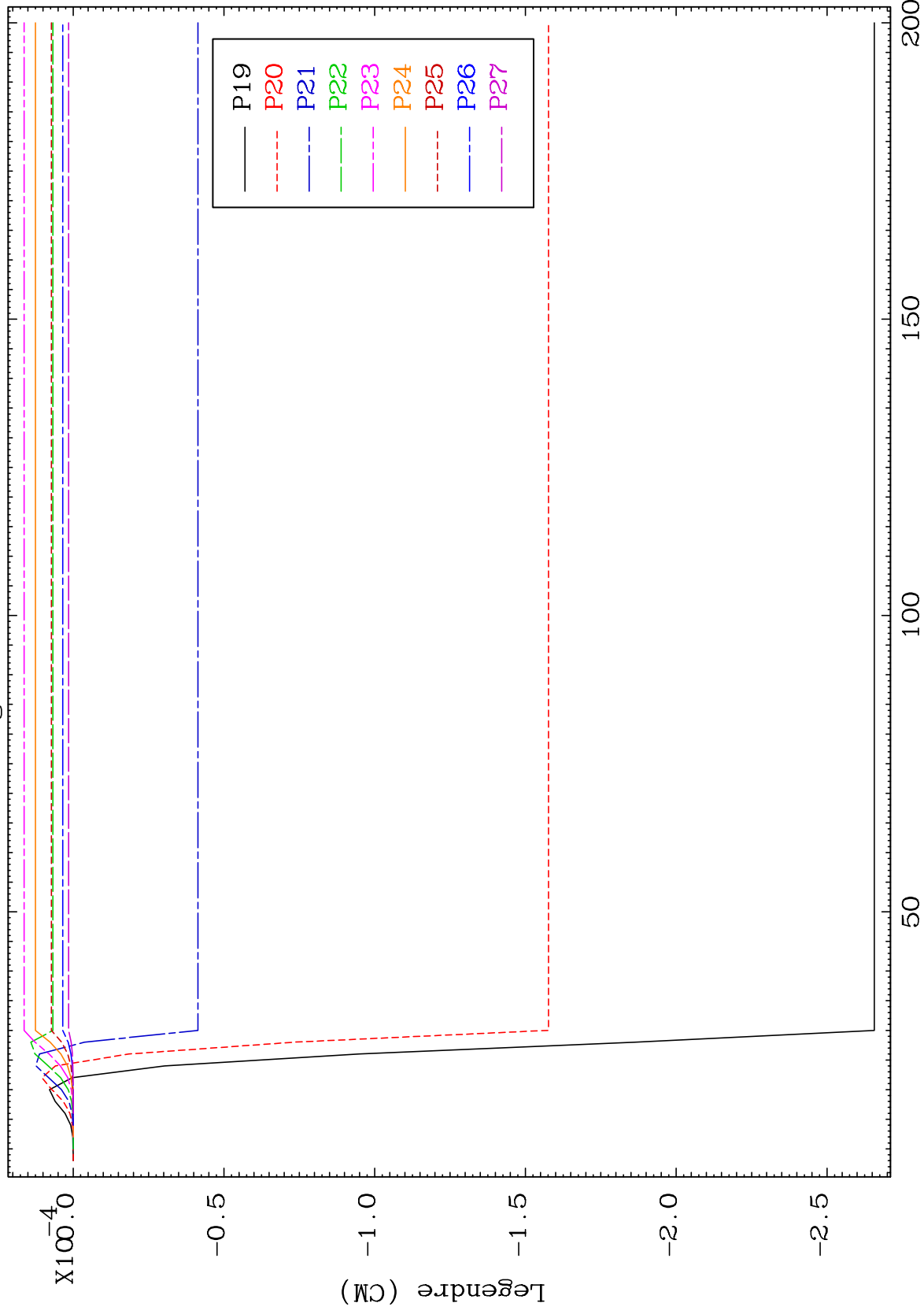
Incident Energy (MeV)

64-Gd-144

MAT 6401

MT= 59 (n,n') Level
Legendre Coefficients

64-Gd-144



52

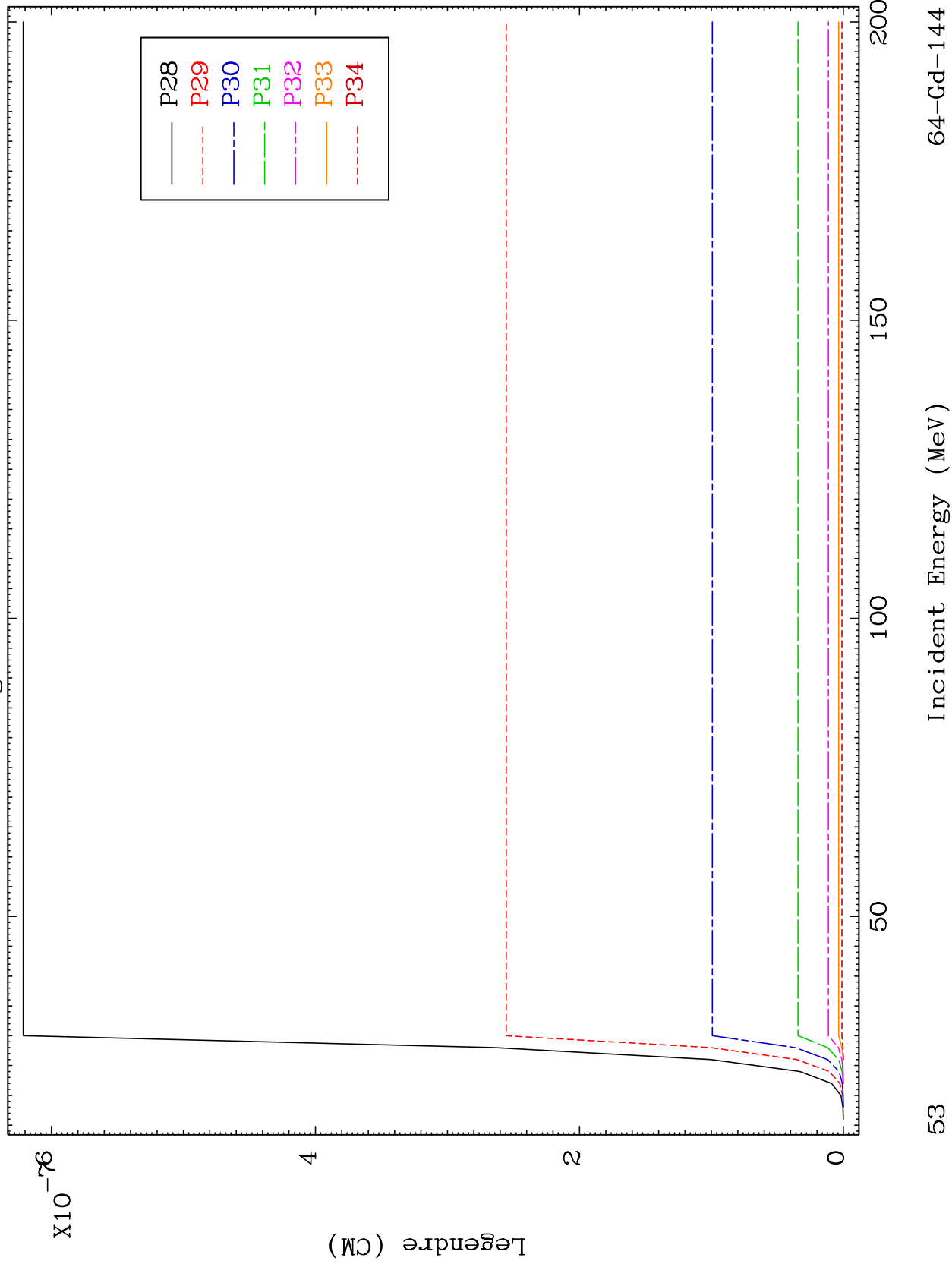
Incident Energy (MeV)

64-Gd-144

MAT 6401

MT= 59 (n,n') Level
Legendre Coefficients

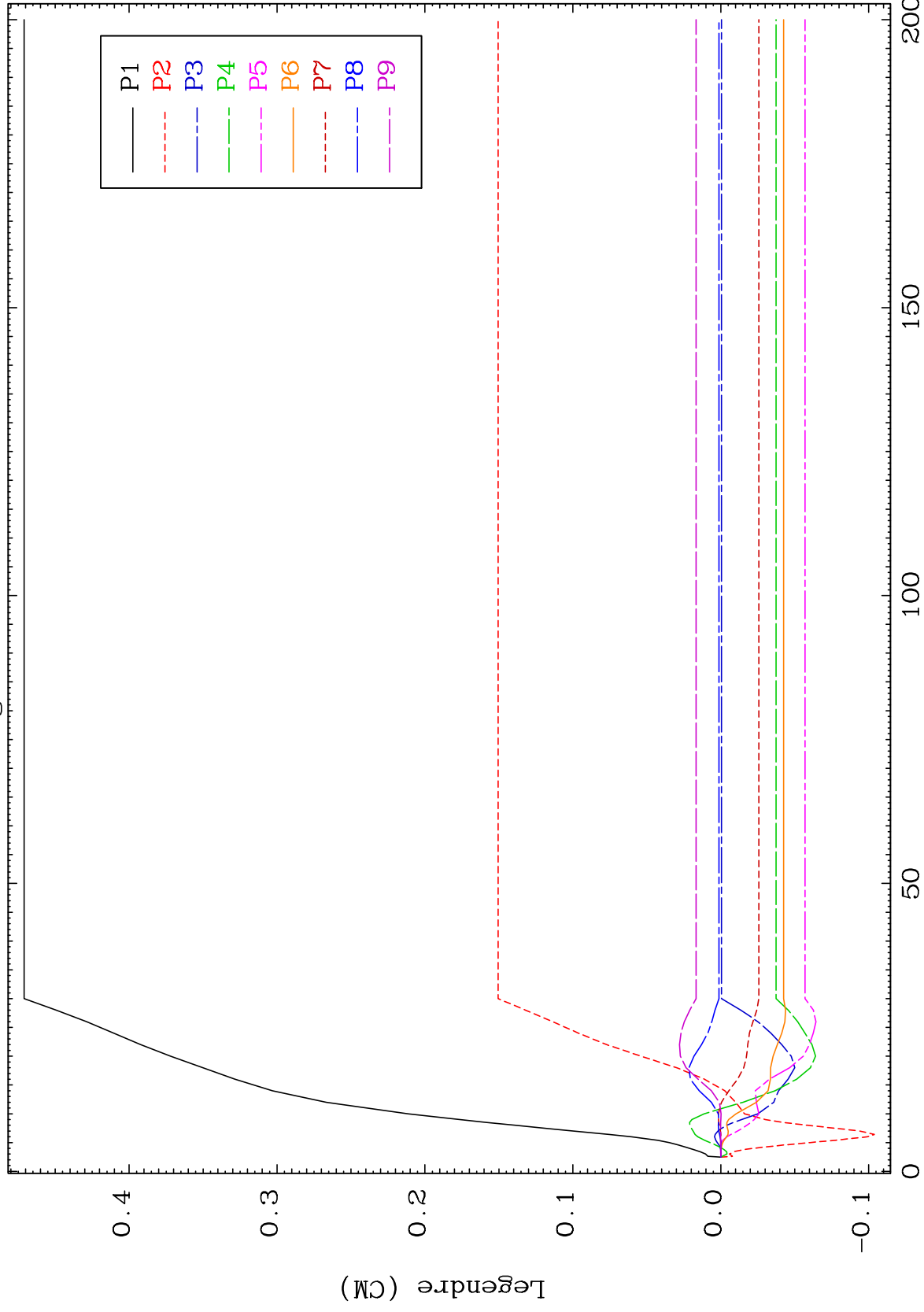
64-Gd-144



MAT 6401

MT= 60 (n,n') Level
Legendre Coefficients

64-Gd-144



54

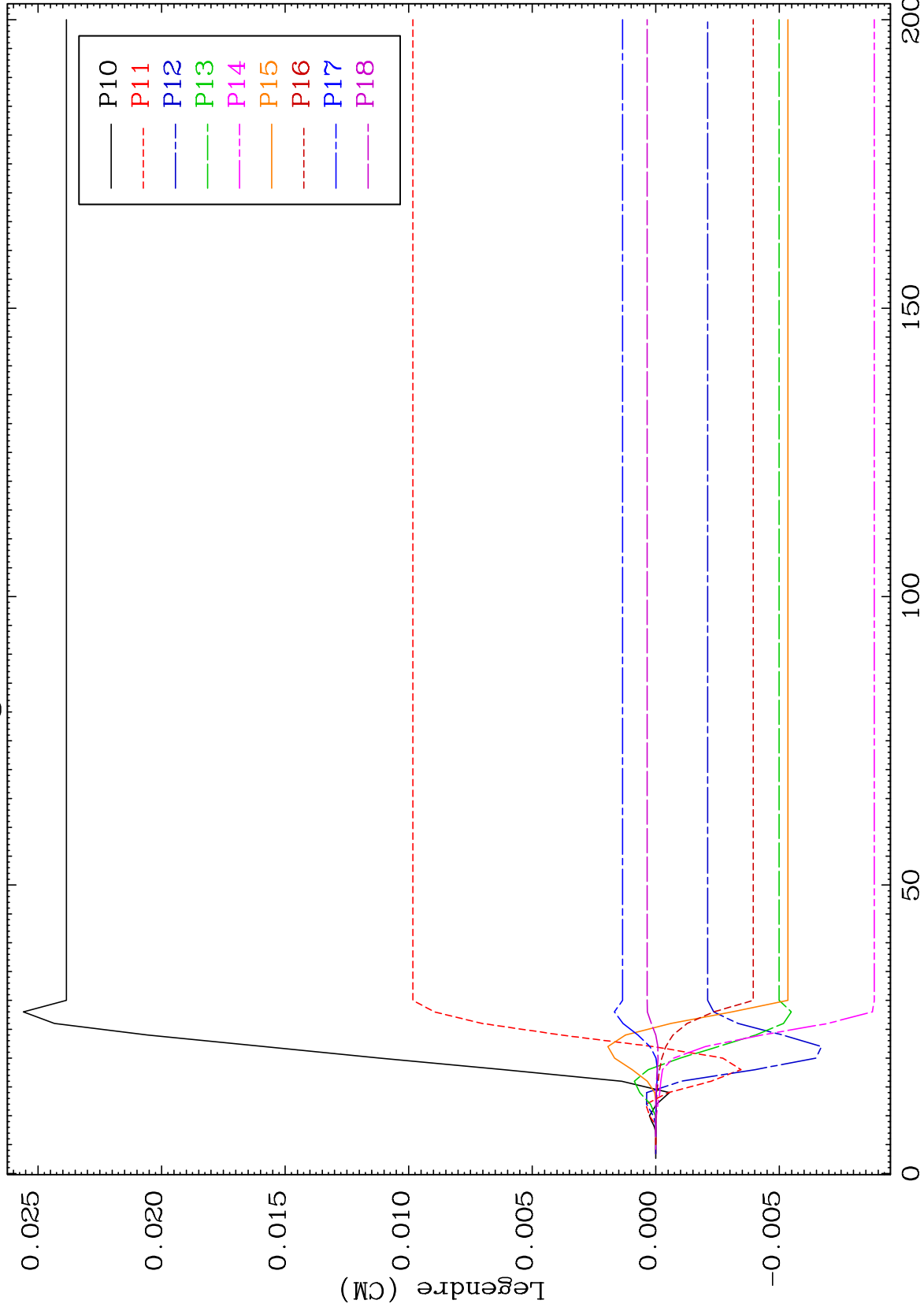
Incident Energy (MeV)

64-Gd-144

MAT 6401

MT= 60 (n,n') Level
Legendre Coefficients

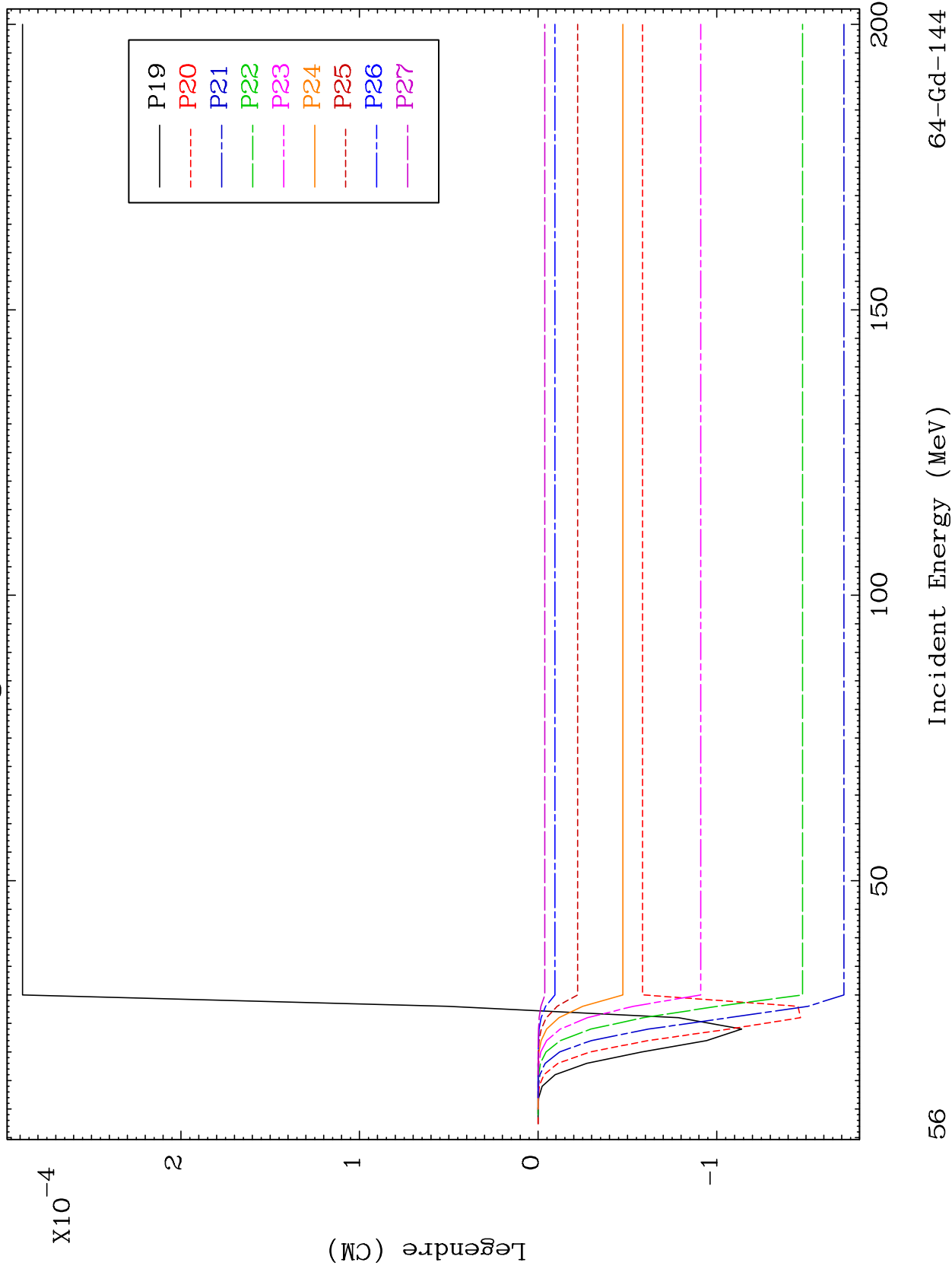
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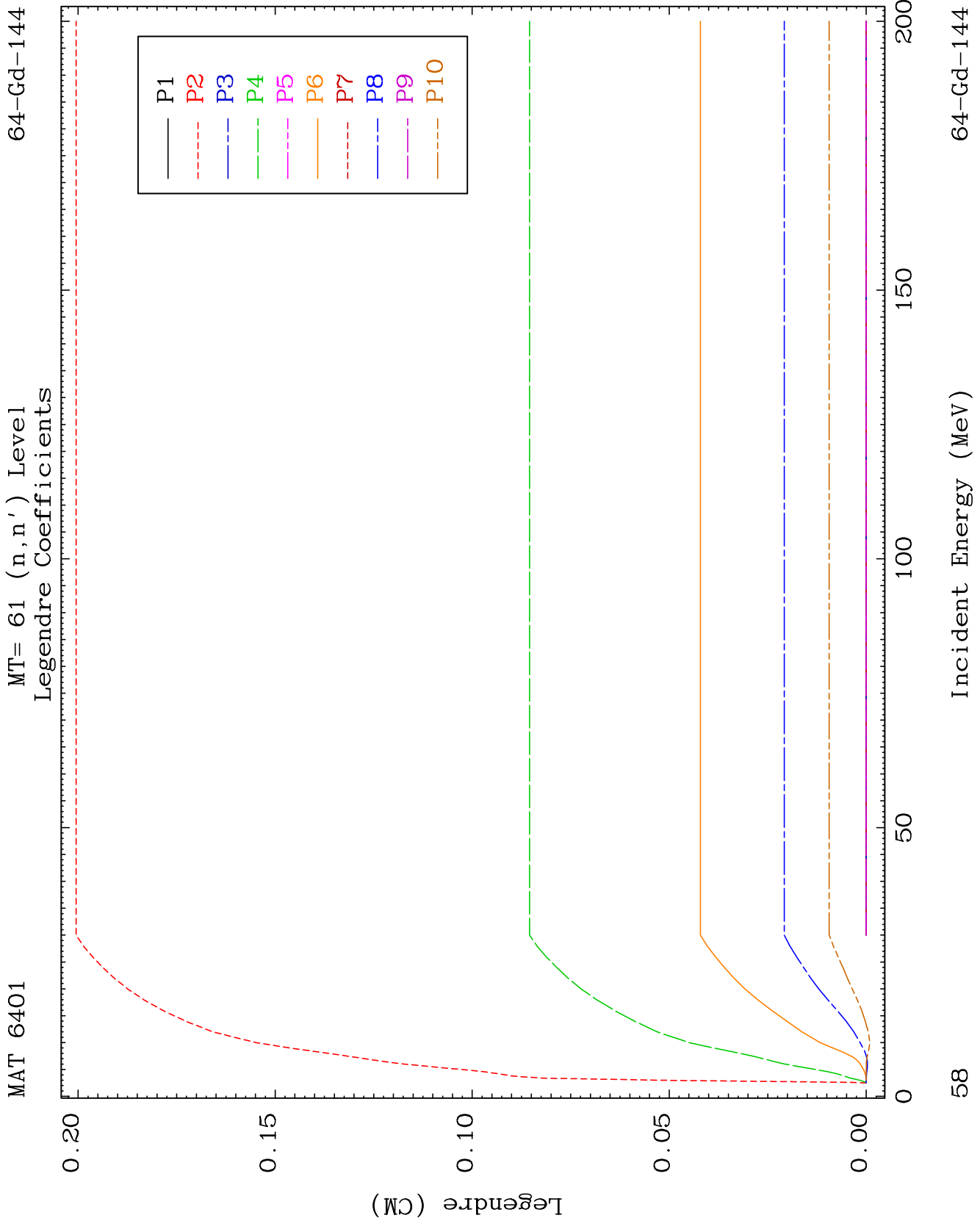


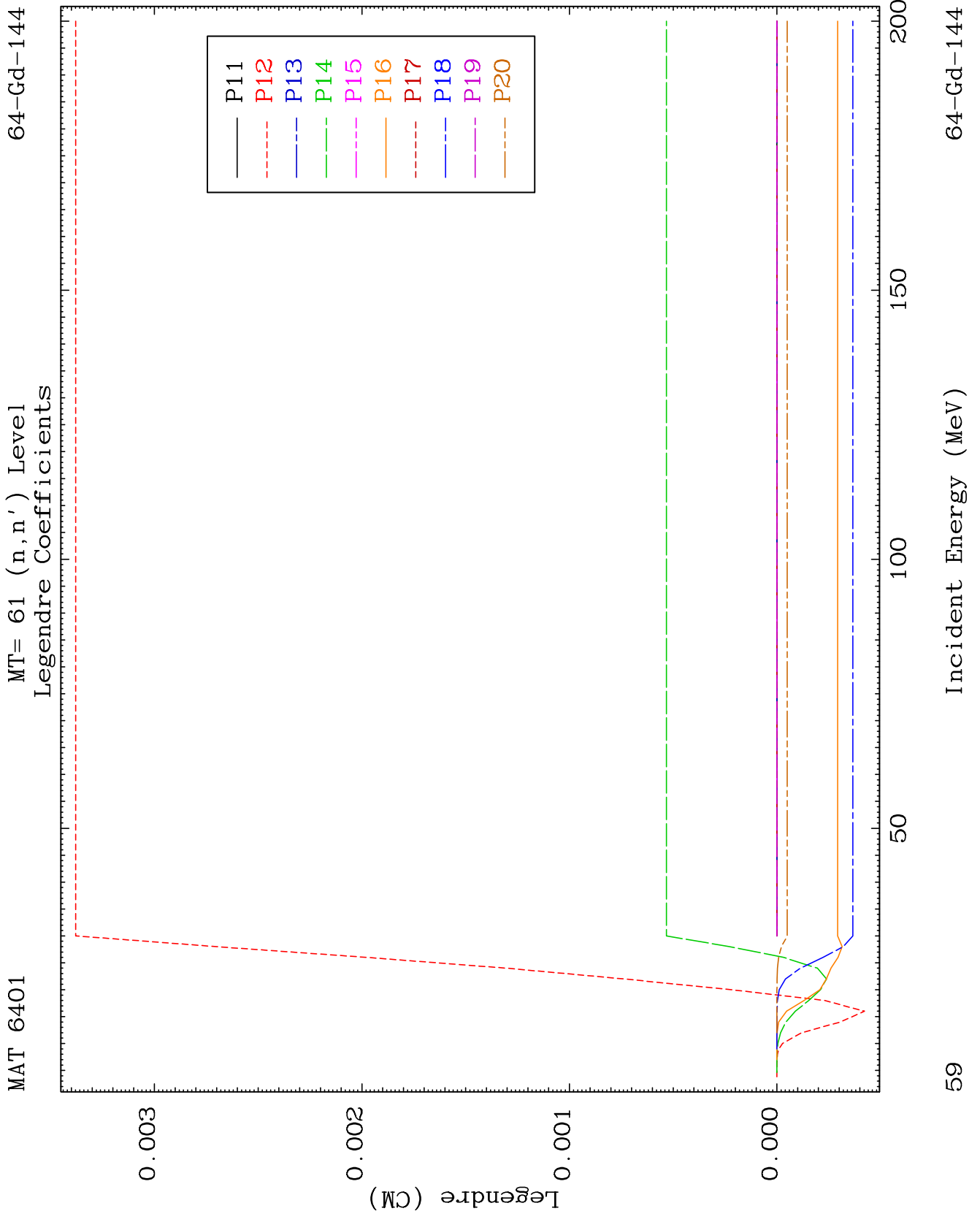
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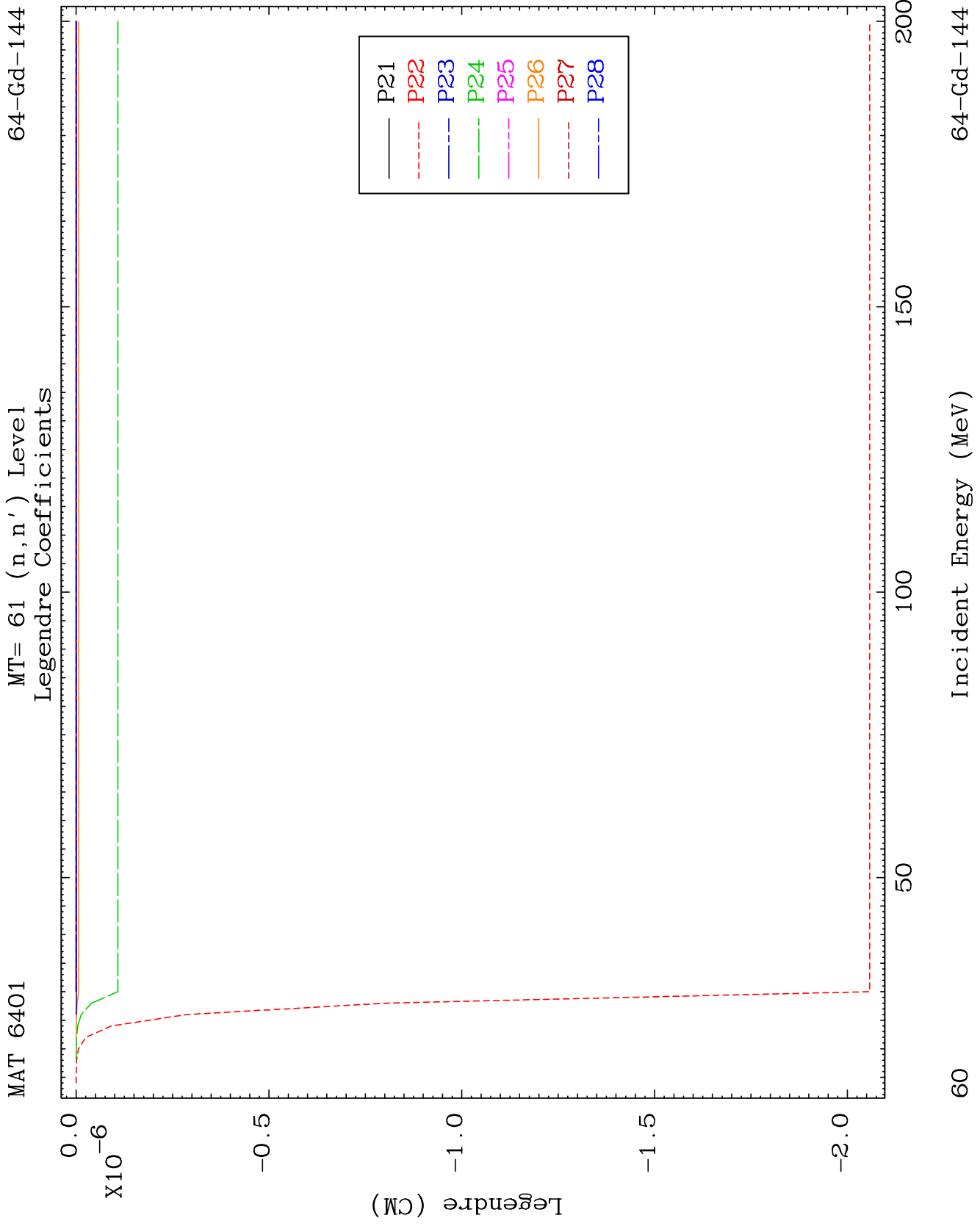
Incident Energy (MeV)

64-Gd-144







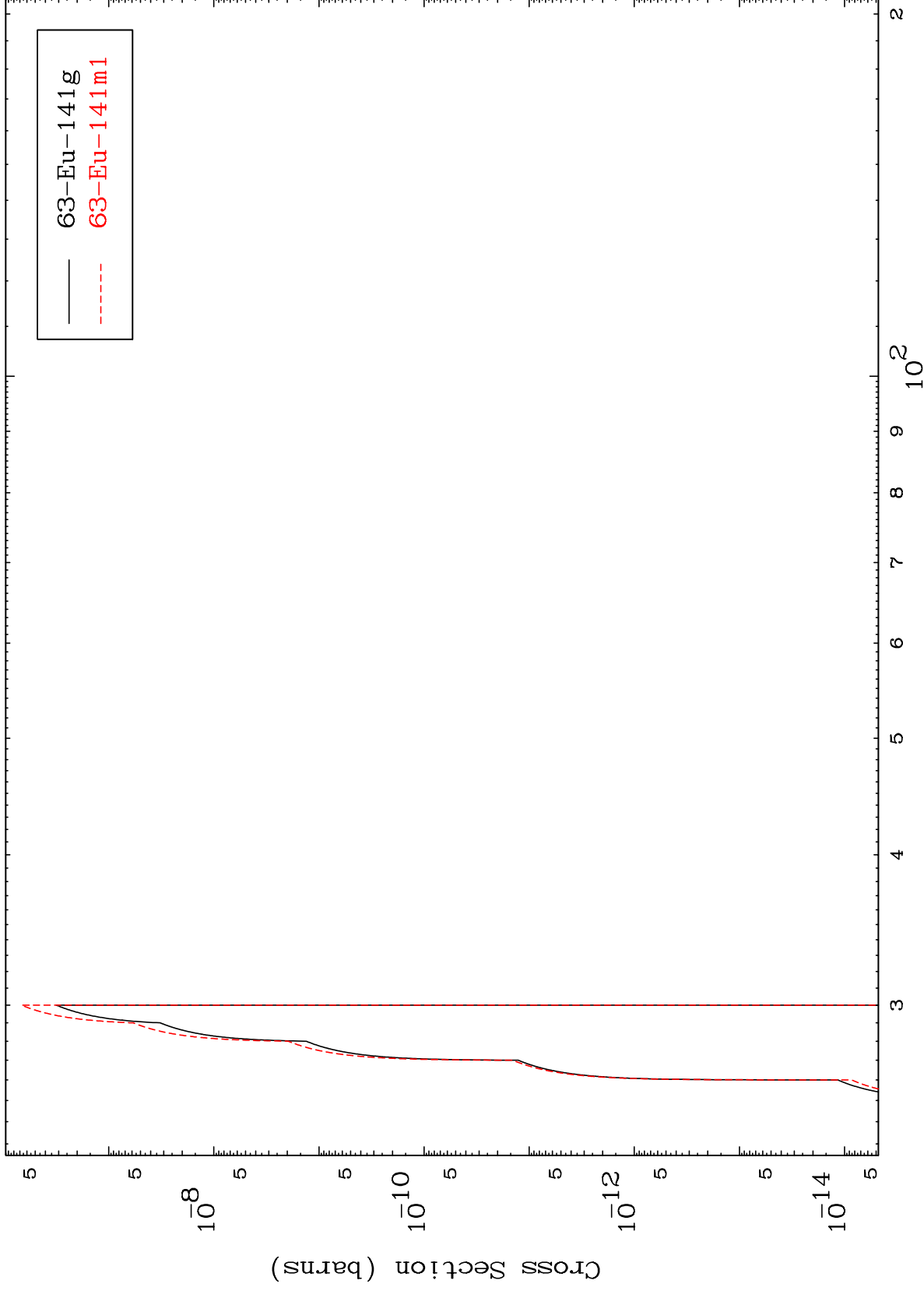


MAT 6401

(n,2n) d

64-Gd-144

Radionuclide Production Cross Section



61

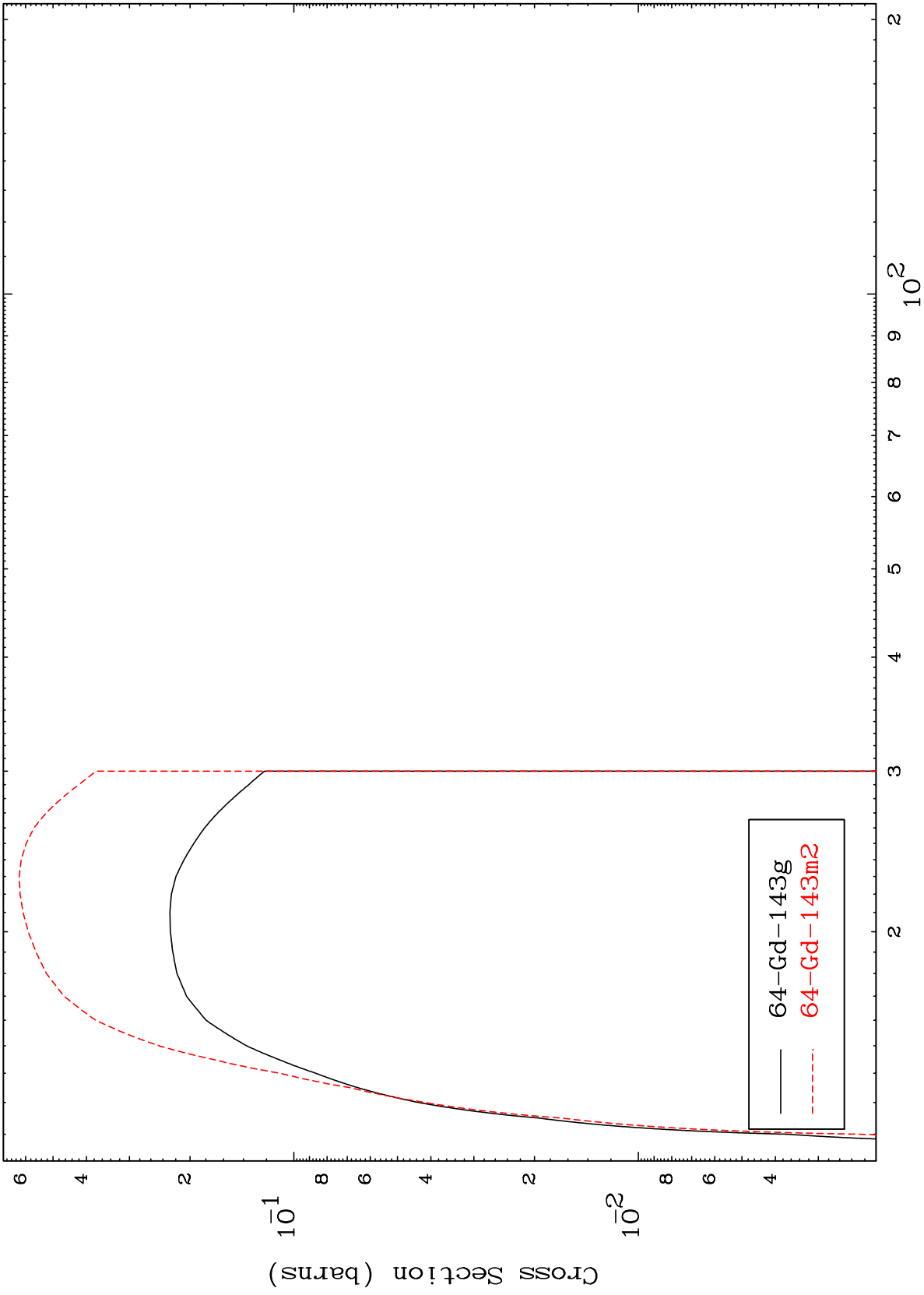
Incident Energy (MeV)

64-Gd-144

MAT 6401

64-Gd-144

(n,2n)
Radionuclide Production Cross Section



64-Gd-144

Incident Energy (MeV)

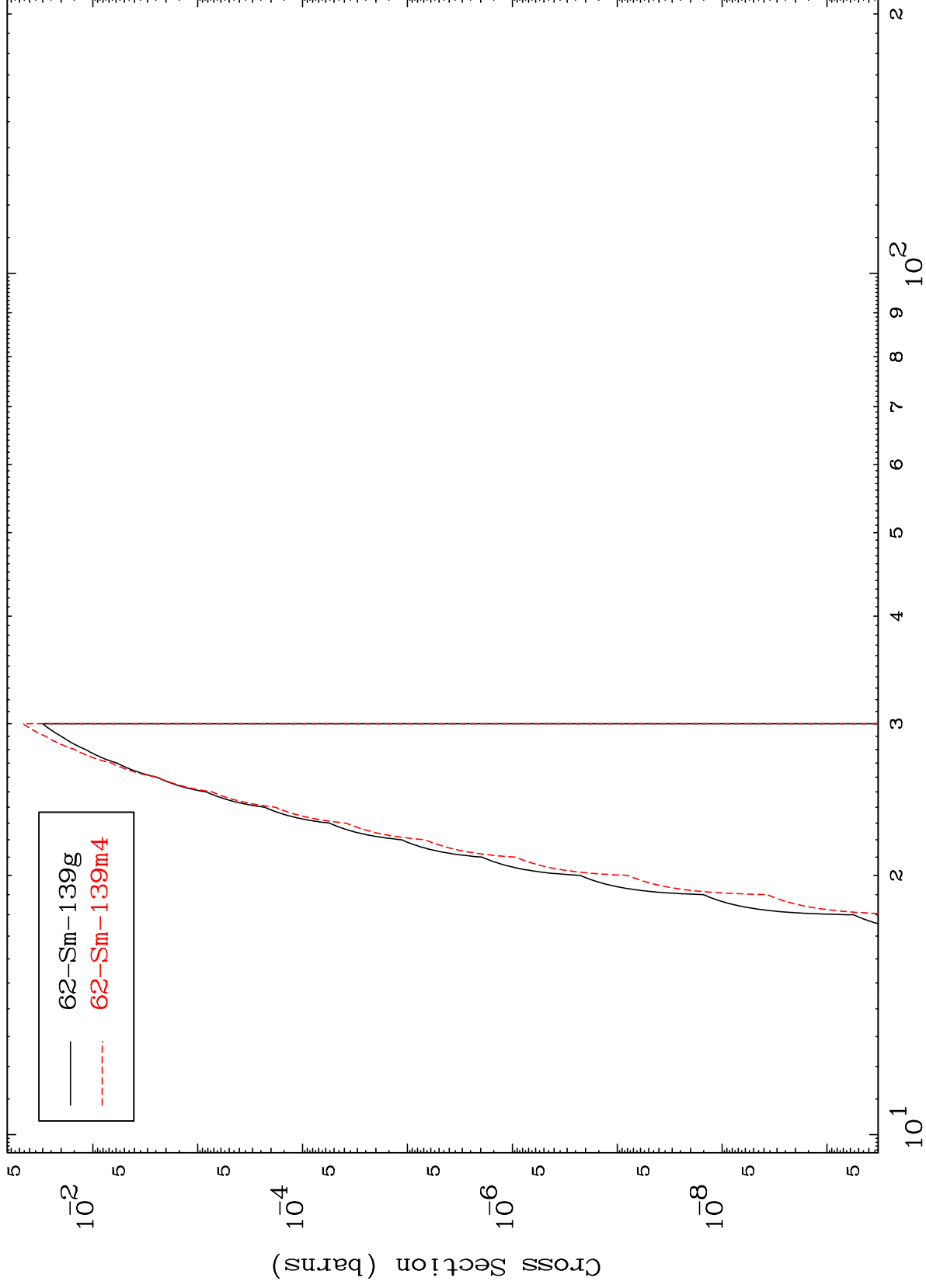
62

MAT 6401

(n,2n) α

64-Gd-144

Radionuclide Production Cross Section



63

Incident Energy (MeV)

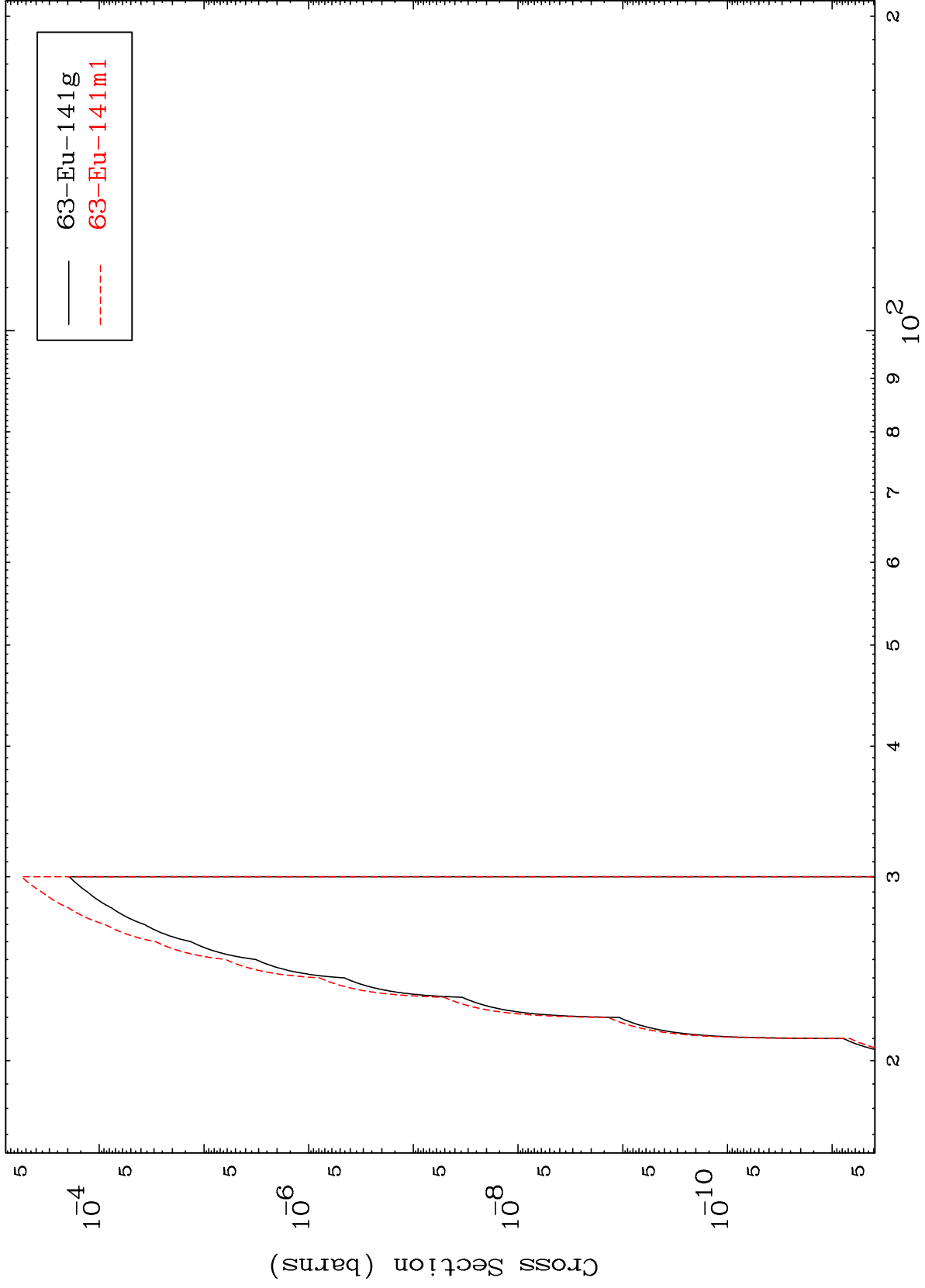
64-Gd-144

MAT 6401

(n,n') t

64-Gd-144

Radionuclide Production Cross Section



64

Incident Energy (MeV)

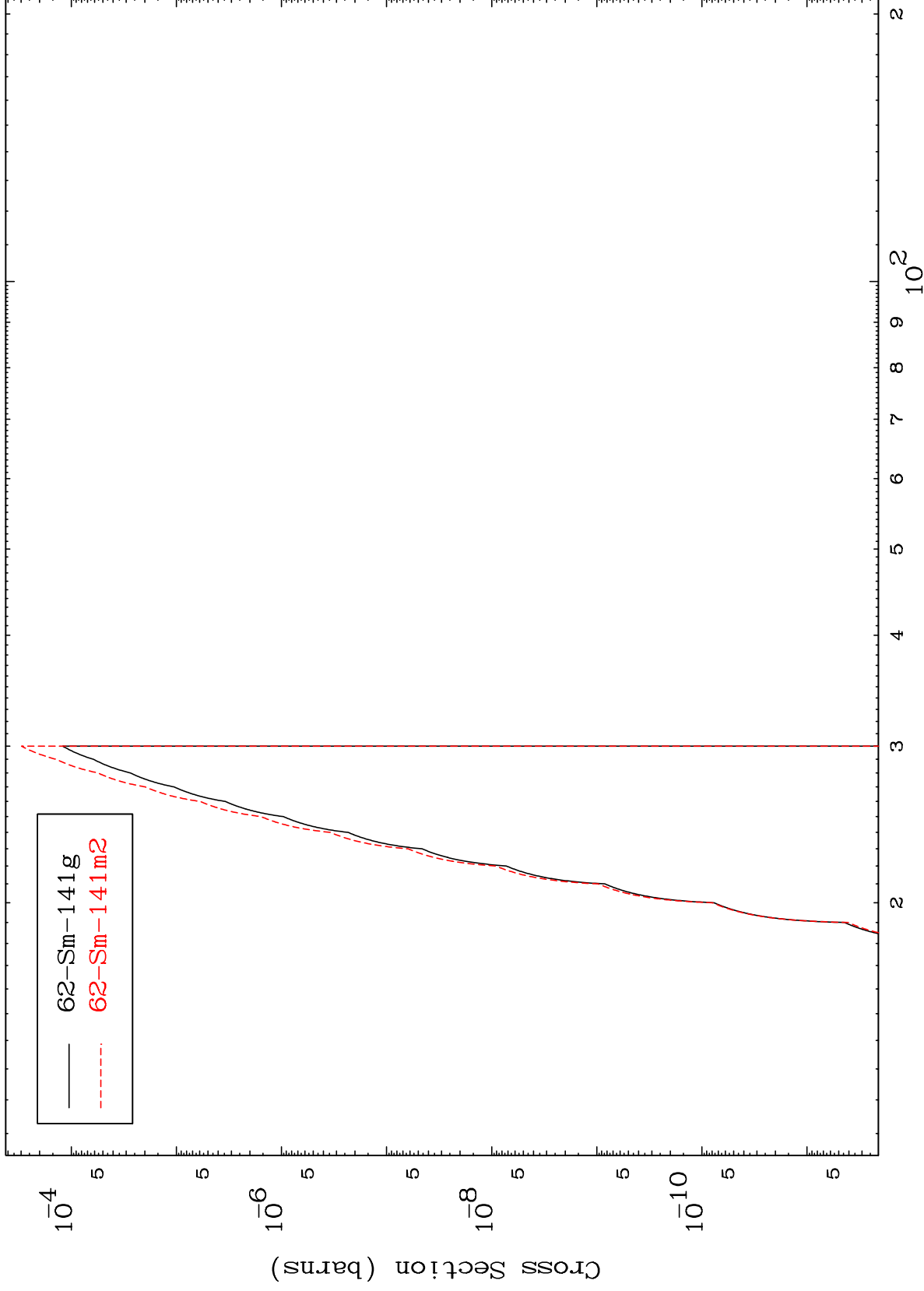
64-Gd-144

MAT 6401

(n,n') He-3

64-Gd-144

Radionuclide Production Cross Section



65

Incident Energy (MeV)

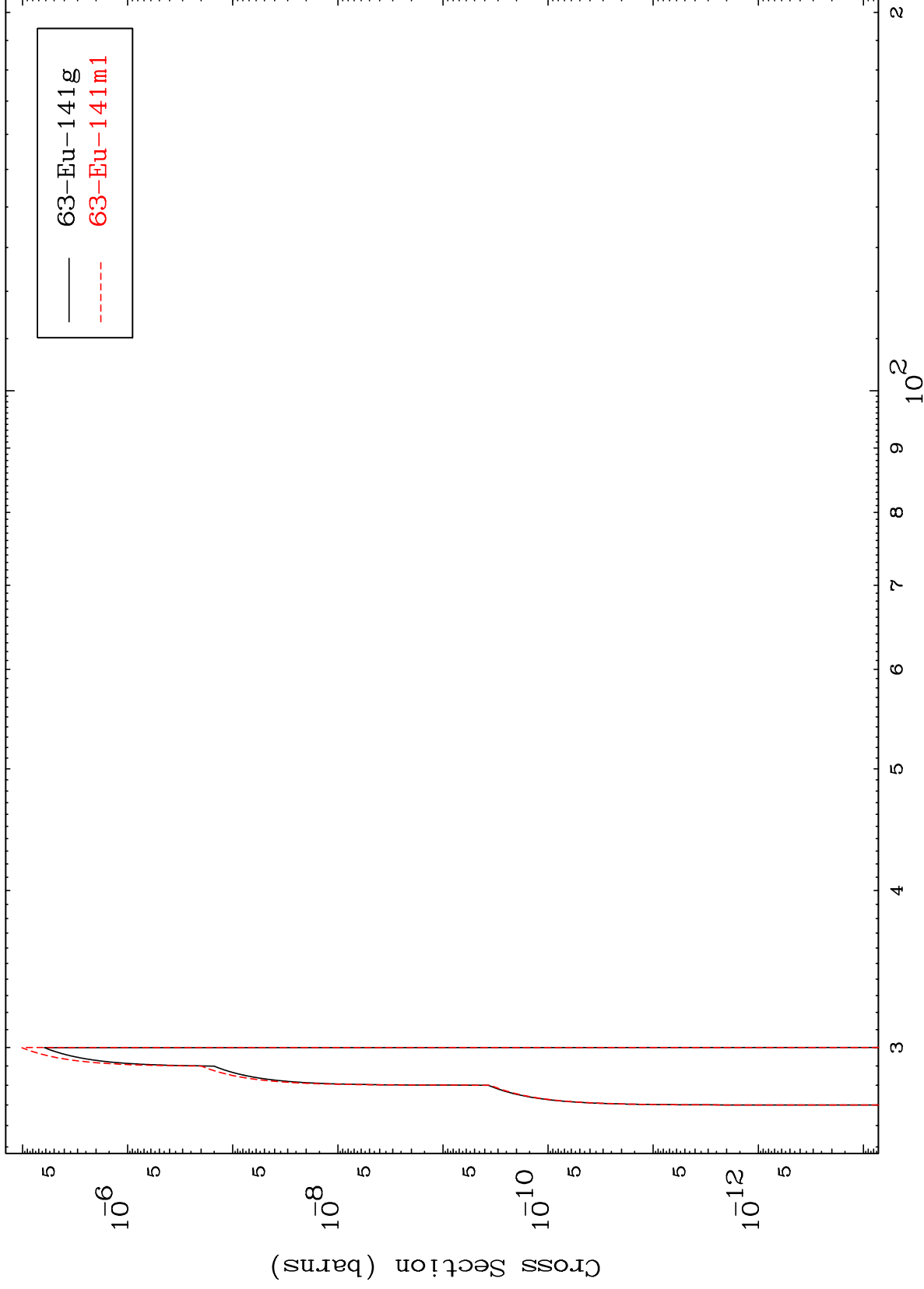
64-Gd-144

MAT 6401

(n,3n) p

64-Gd-144

Radionuclide Production Cross Section



66

Incident Energy (MeV)

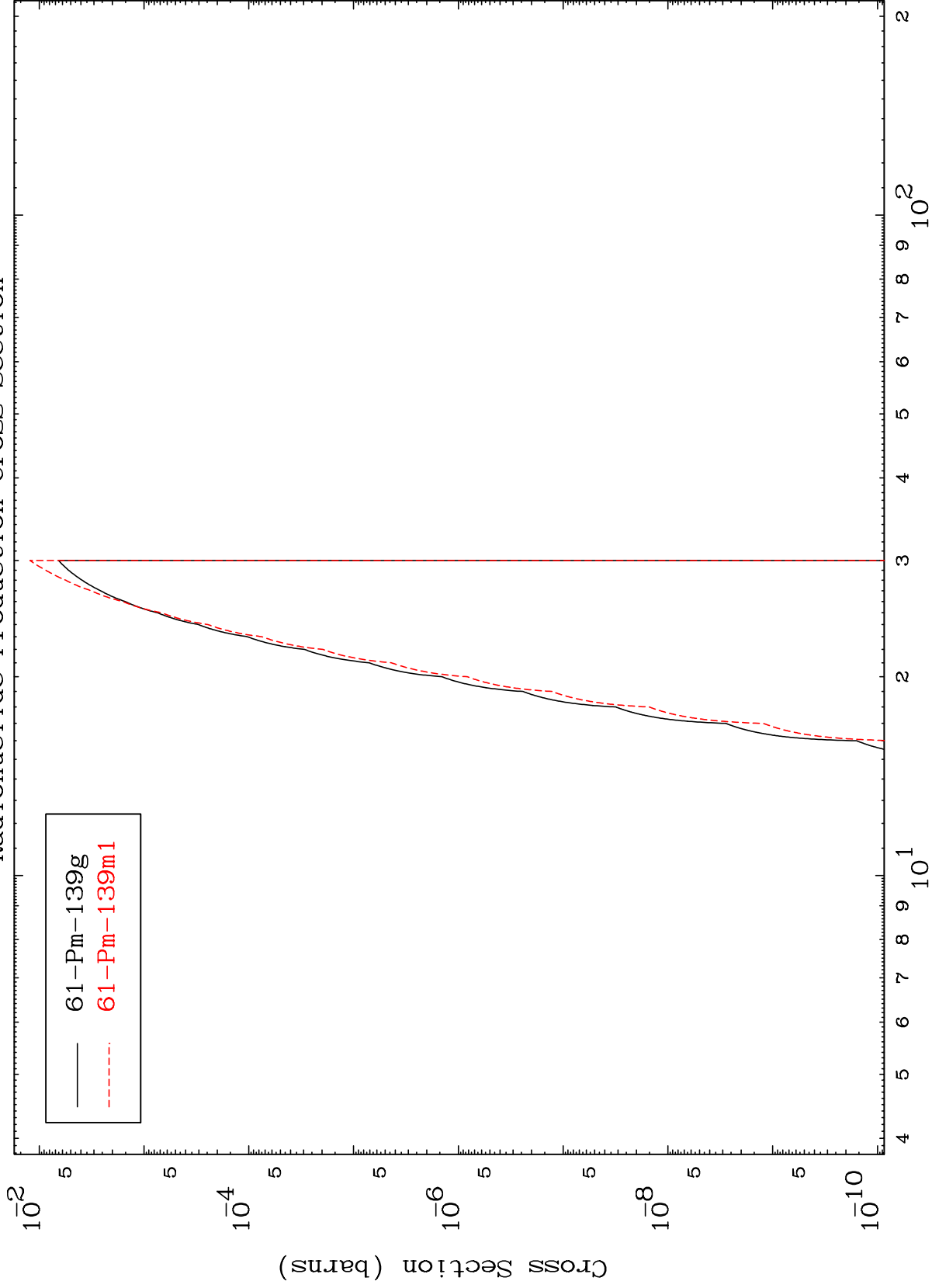
64-Gd-144

MAT 6401

(n,n') p α

64-Gd-144

Radionuclide Production Cross Section



67

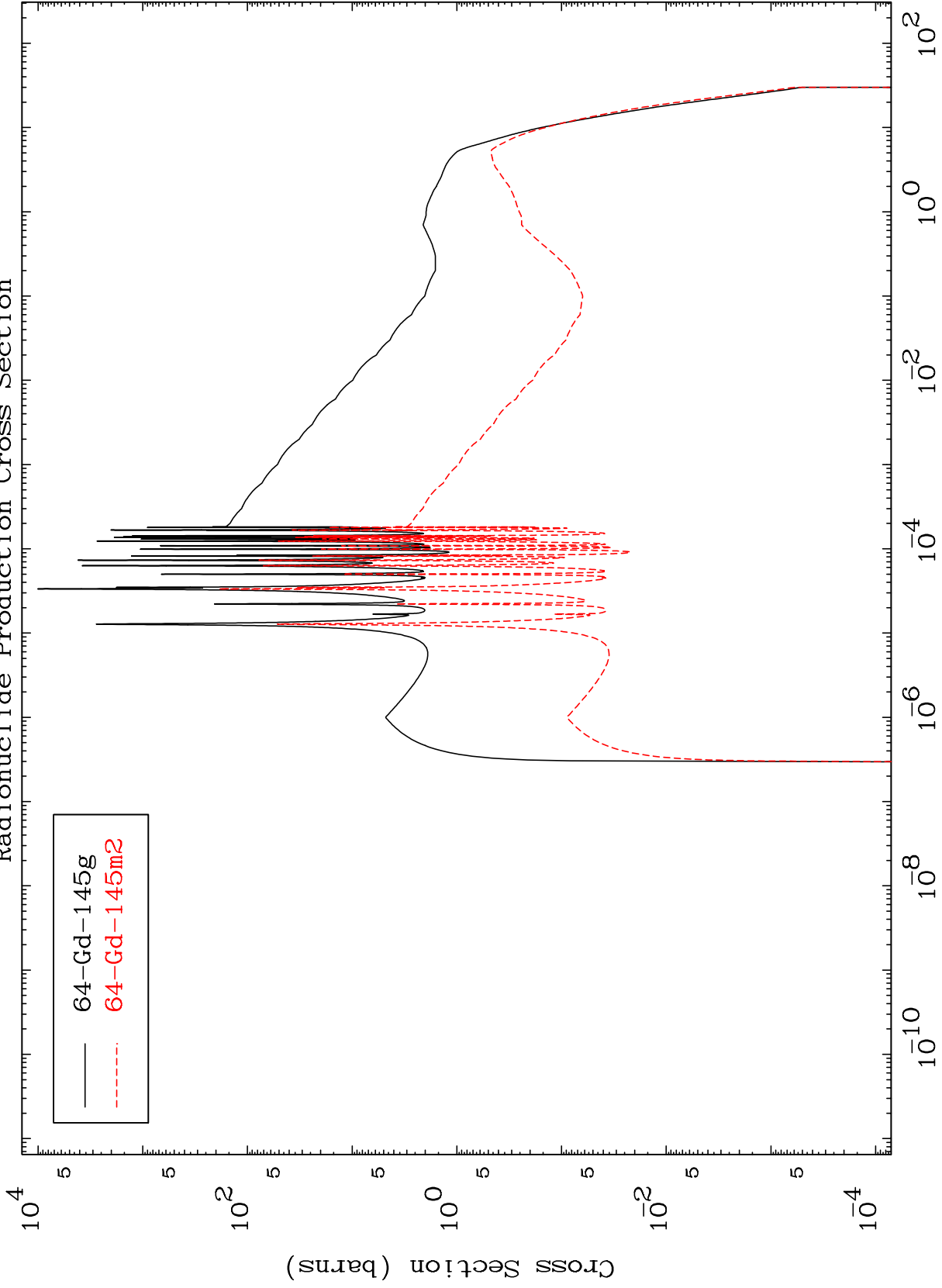
Incident Energy (MeV)

64-Gd-144

MAT 6401

64-Gd-144

(n, γ)
Radionuclide Production Cross Section



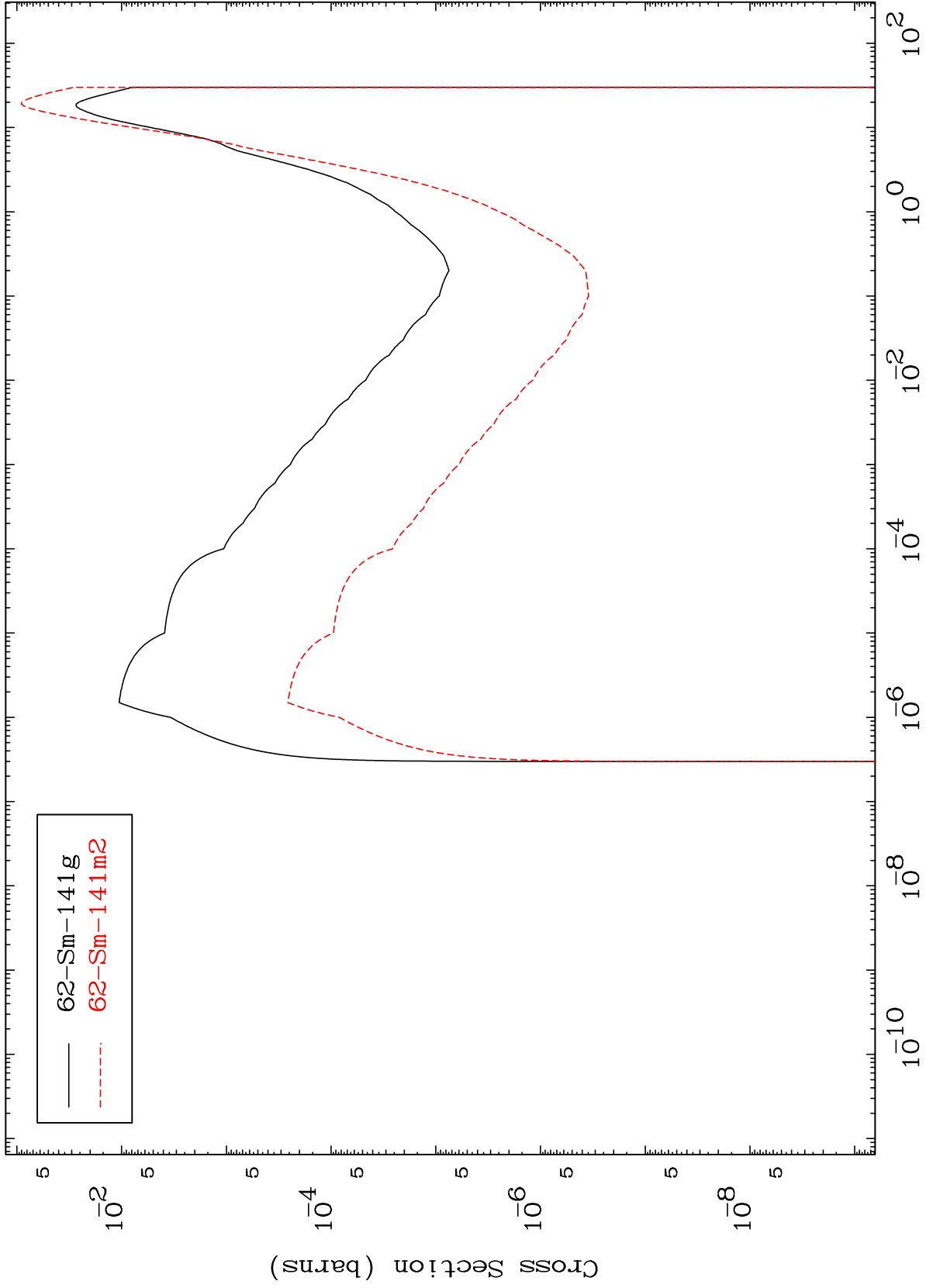
68

64-Gd-144

MAT 6401

64-Gd-144

Radionuclide Production Cross Section
(n, α)



69

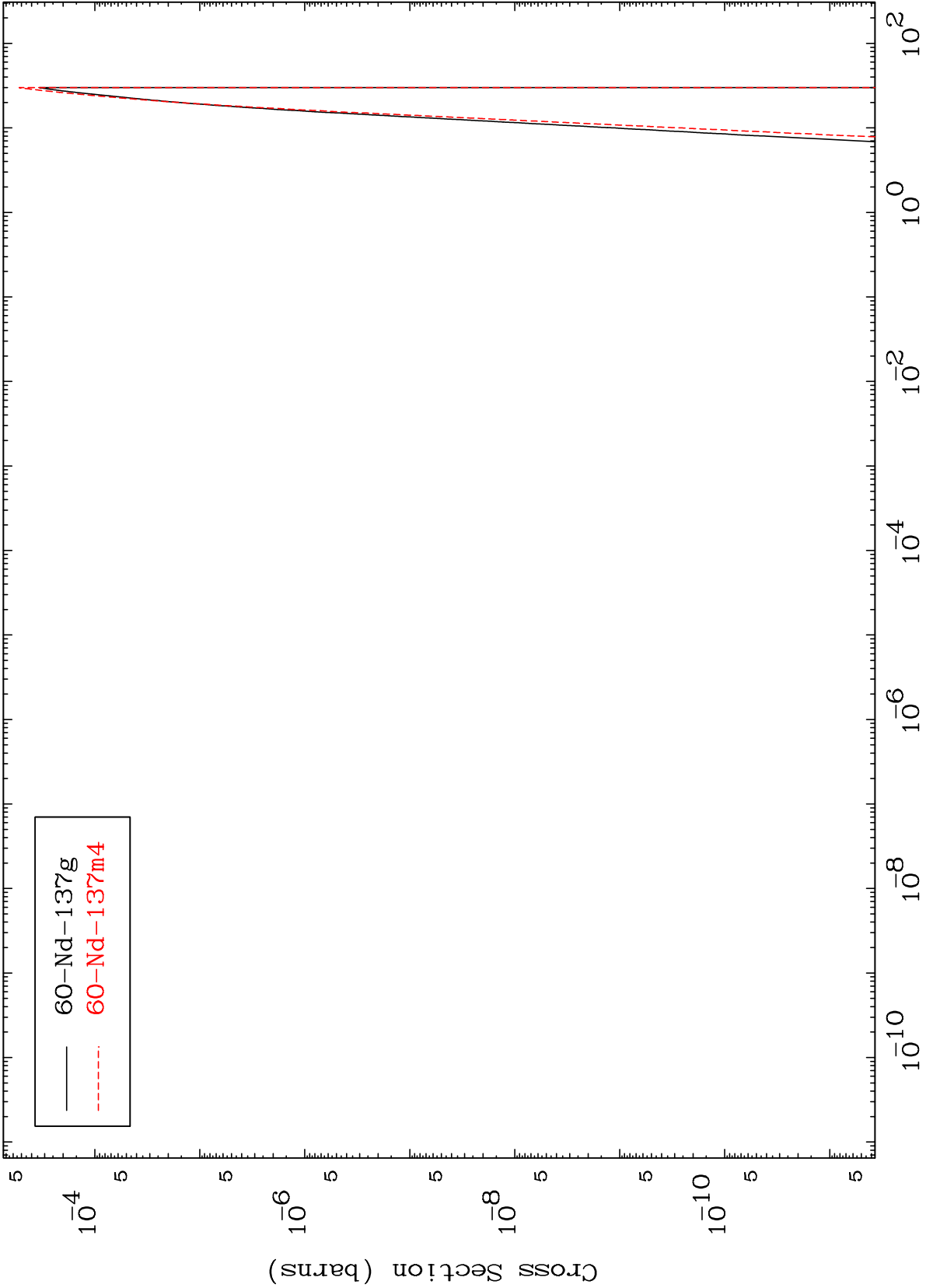
64-Gd-144

MAT 6401

(n,2α)

64-Gd-144

Radionuclide Production Cross Section



70

Incident Energy (MeV)

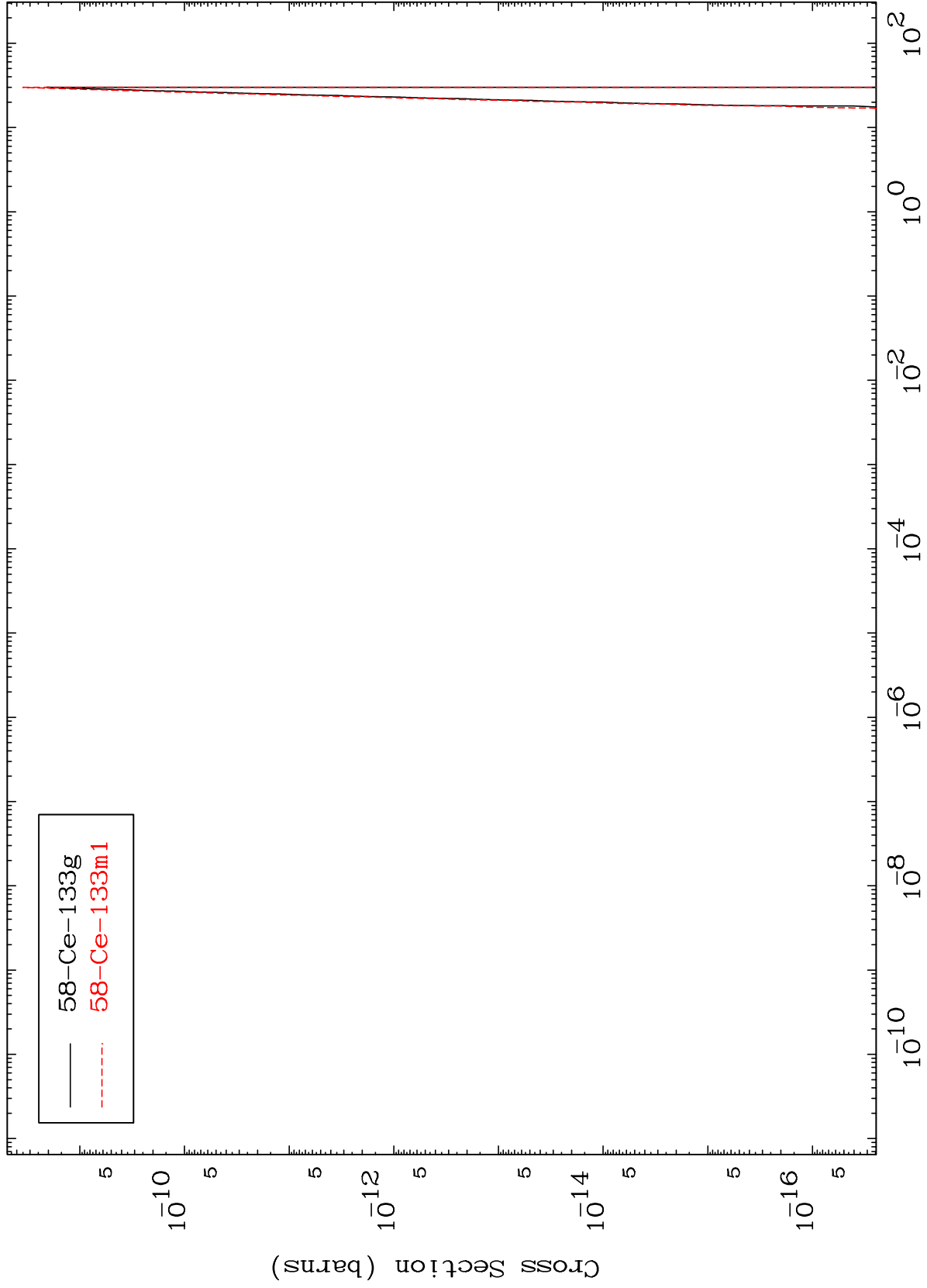
64-Gd-144

MAT 6401

(n,3α)

64-Gd-144

Radionuclide Production Cross Section



58-Ce-133g
58-Ce-133m1

71

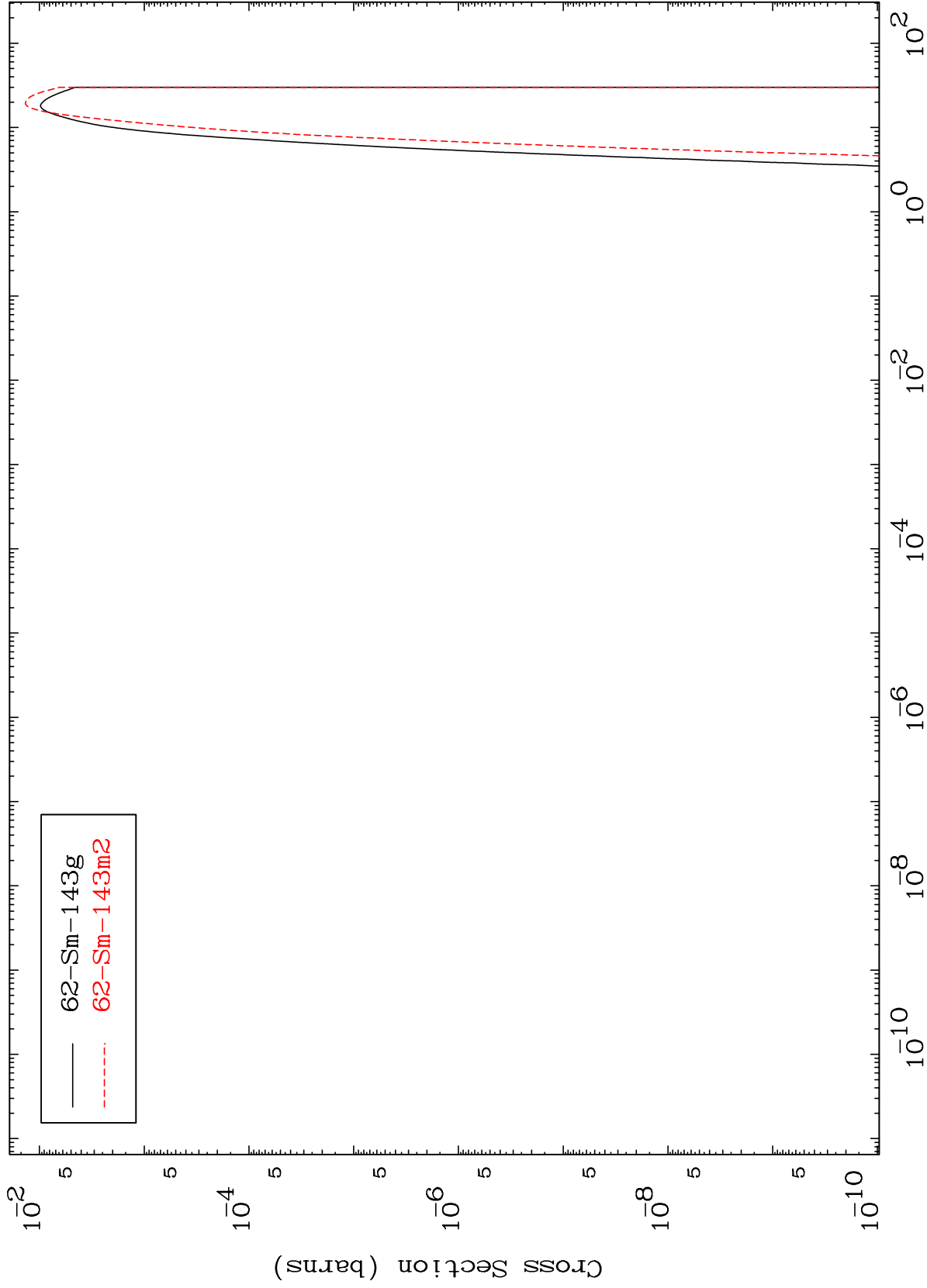
Incident Energy (MeV)

64-Gd-144

MAT 6401

64-Gd-144

(n,2p)
Radionuclide Production Cross Section



72

Incident Energy (MeV)

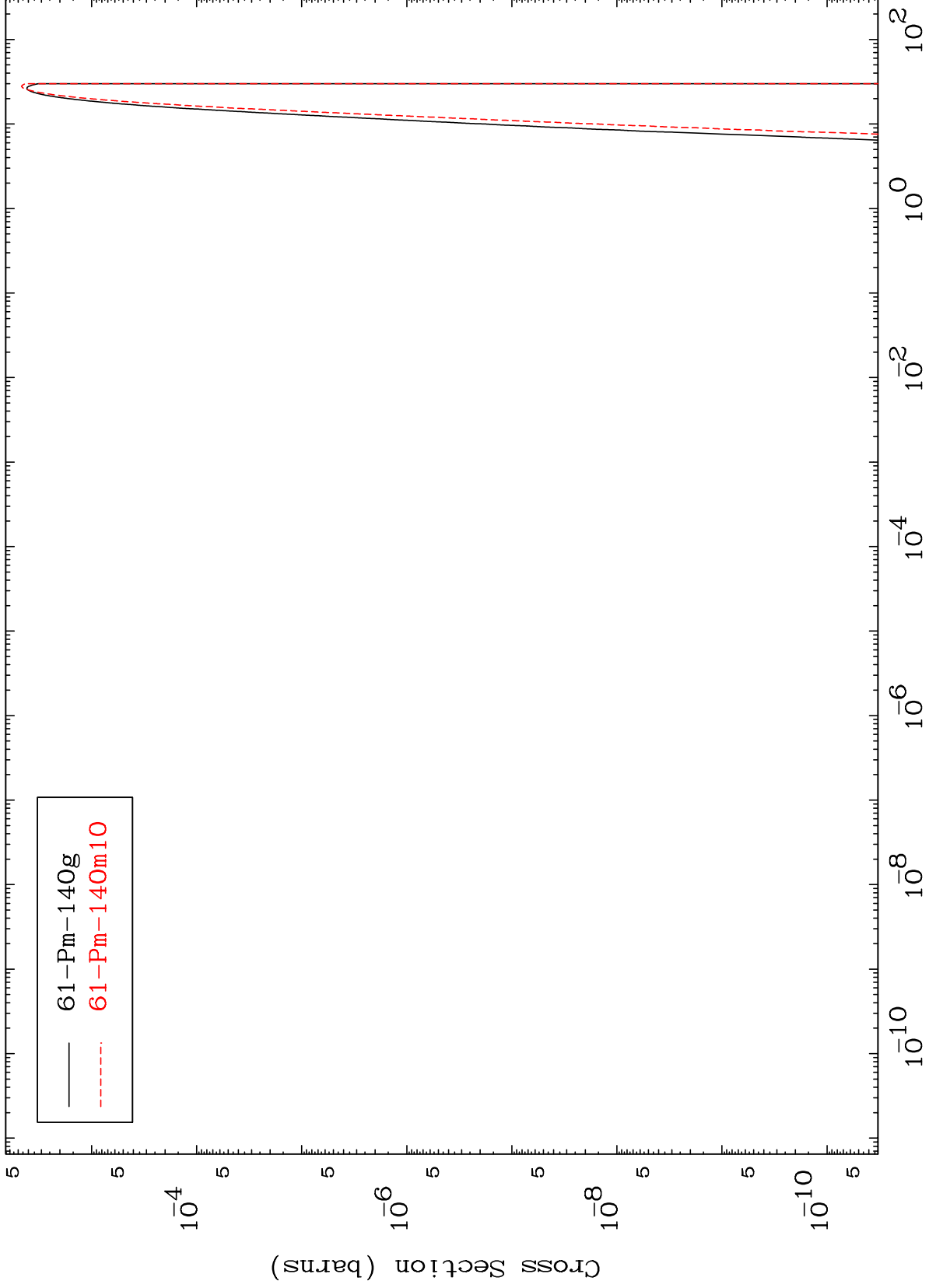
64-Gd-144

MAT 6401

(n,p) α

64-Gd-144

Radionuclide Production Cross Section



73

Incident Energy (MeV)

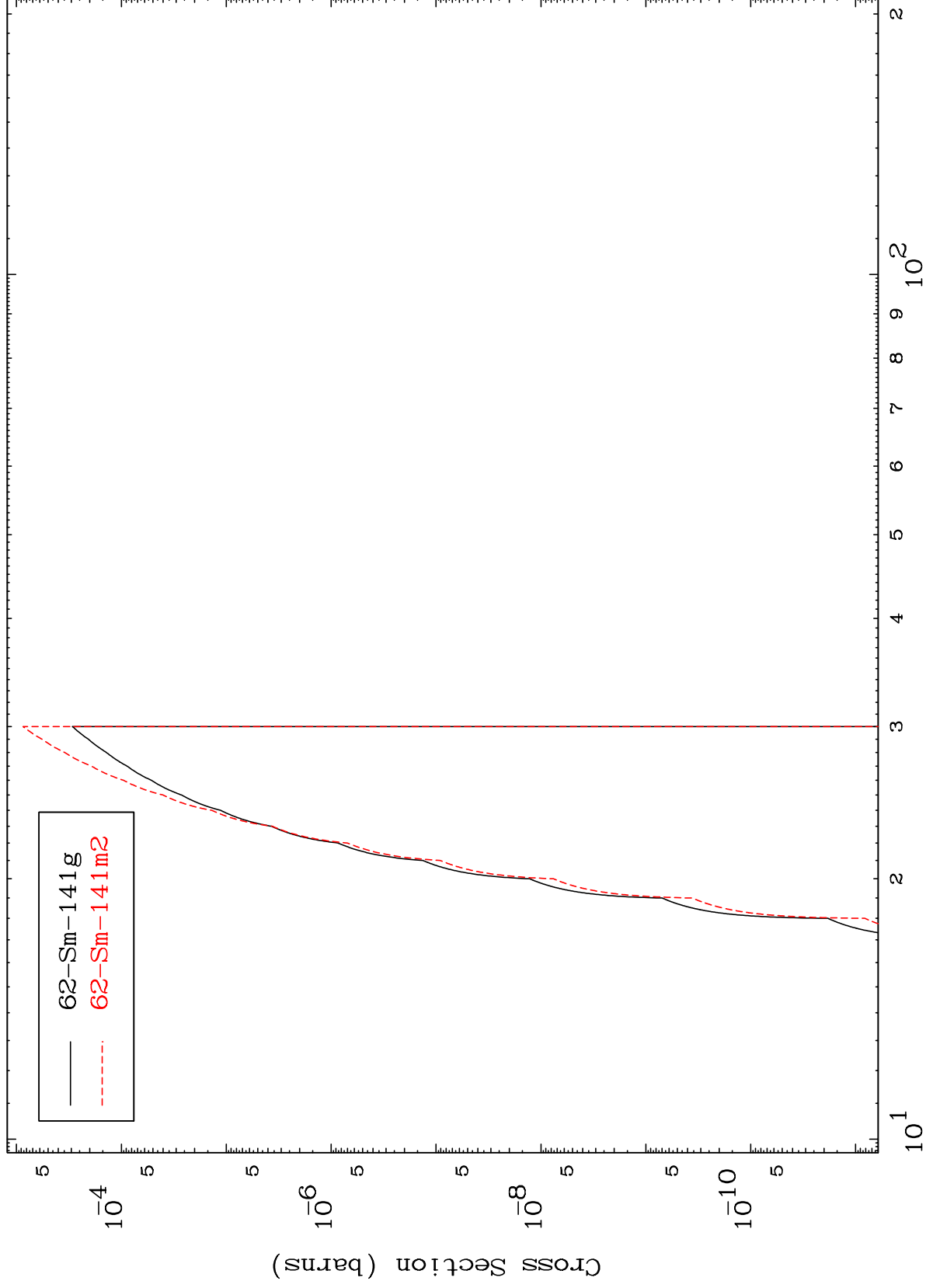
64-Gd-144

MAT 6401

(n,p) t

64-Gd-144

Radionuclide Production Cross Section



Incident Energy (MeV)

64-Gd-144

74

MAT 6401

(n,d) α

64-Gd-144

Radionuclide Production Cross Section

