

Program EVALPLOT  
(Version 2021-1)

by

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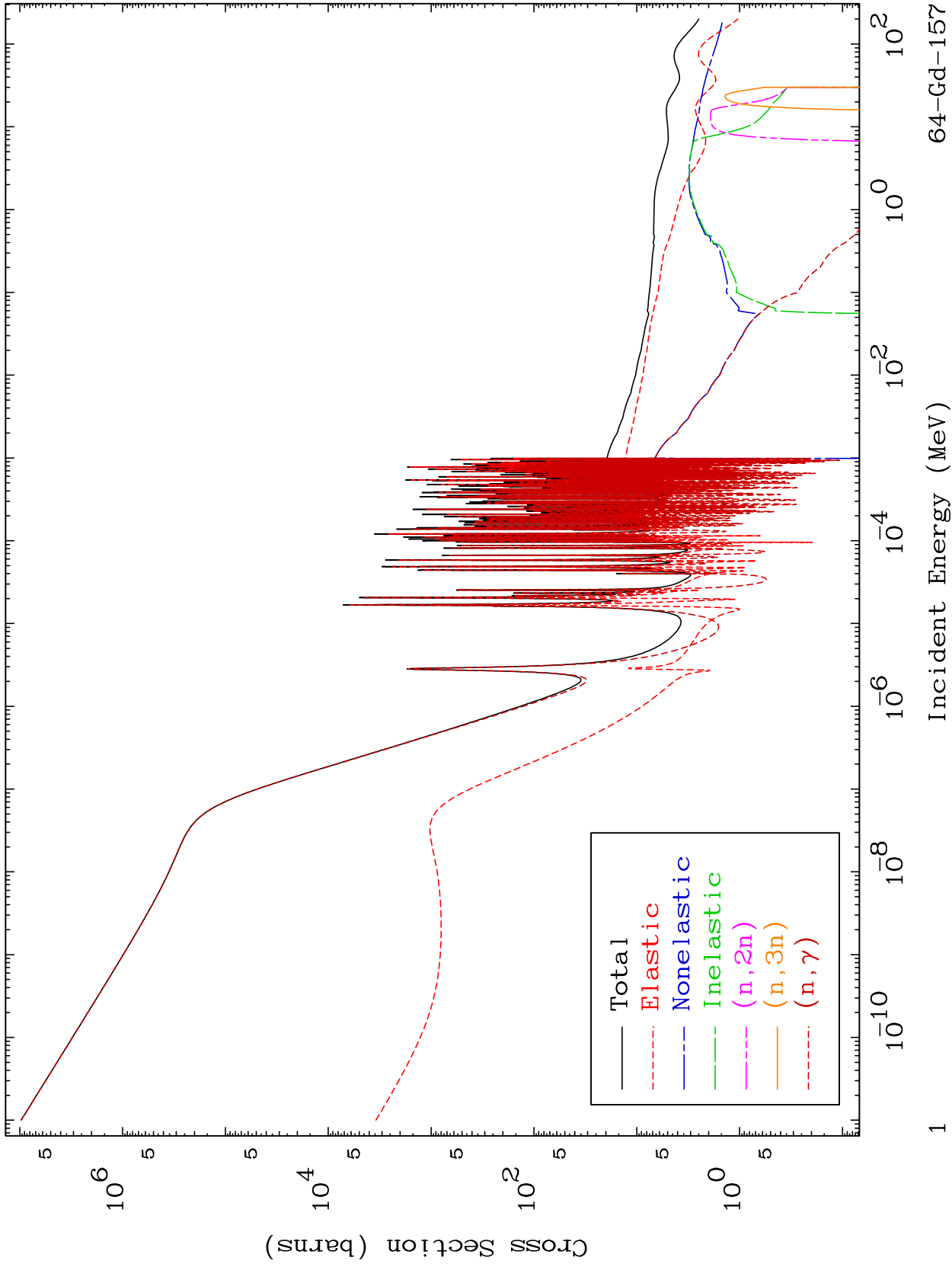
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6440

Neutron Major  
293 Kelvin Cross Sections

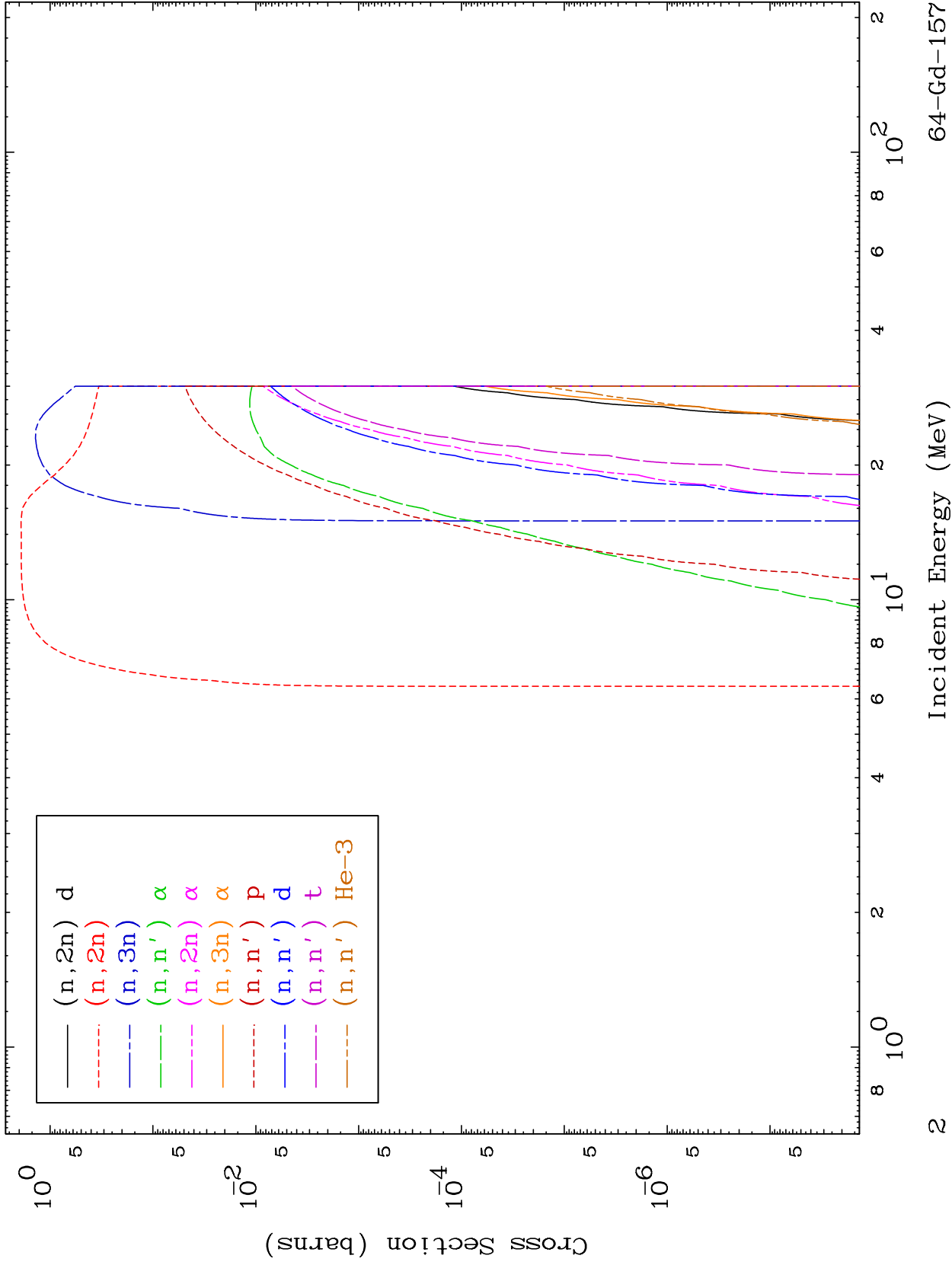
64-Gd-157



MAT 6440

Neutron Absorption  
293 Kelvin Cross Sections

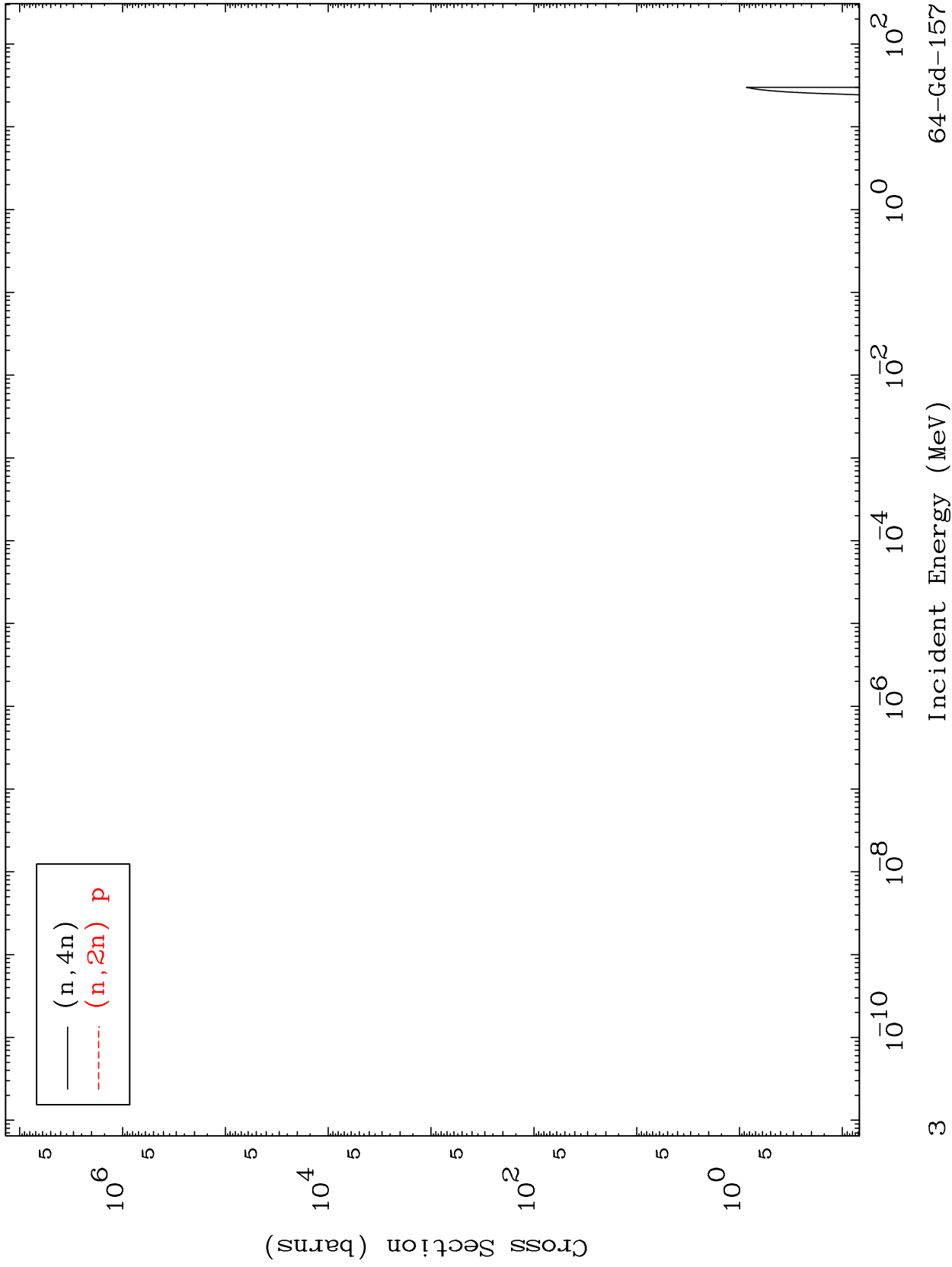
64-Gd-157



MAT 6440

Neutron Absorption  
293 Kelvin Cross Sections

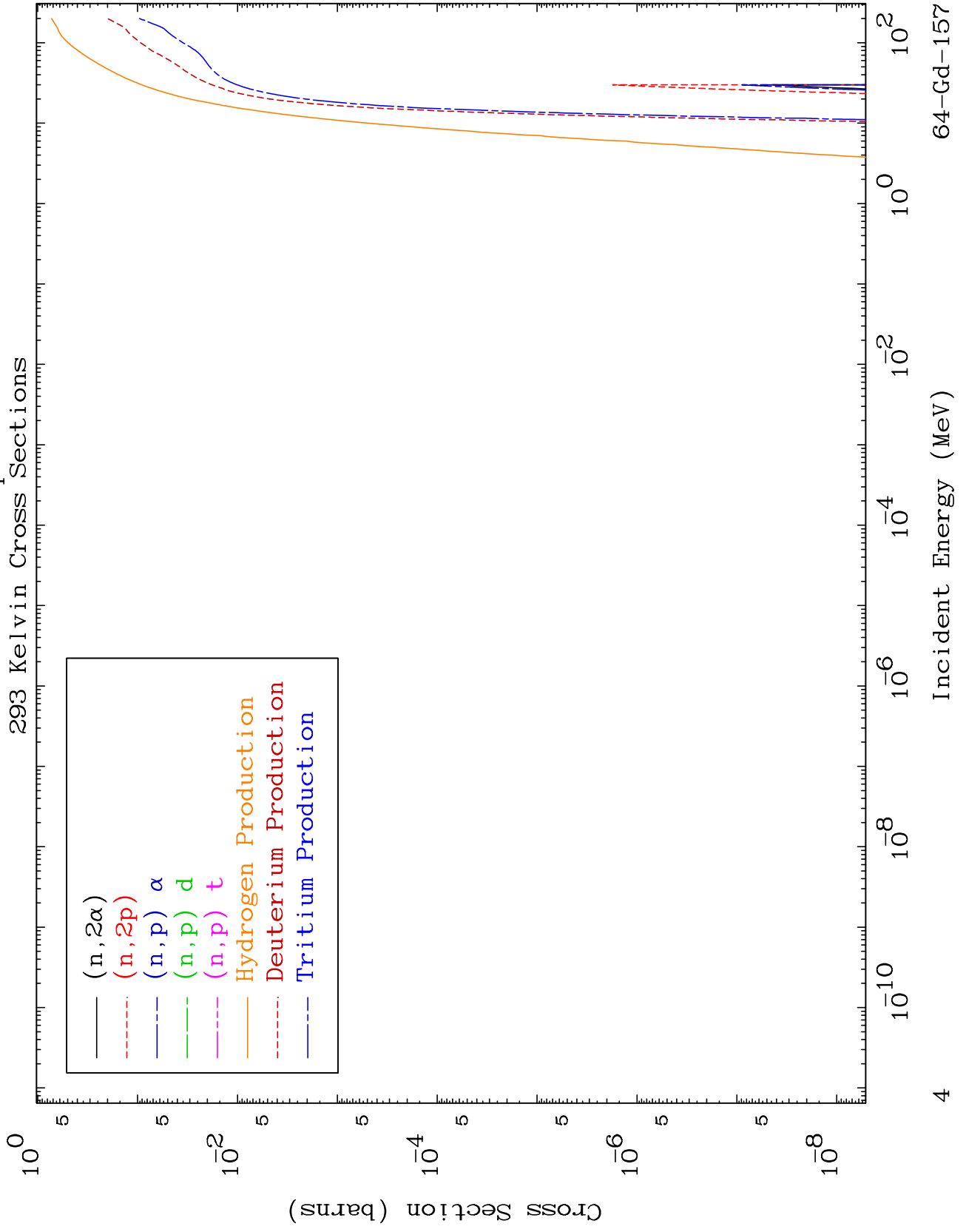
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MAT 6440

Neutron Absorption  
293 Kelvin Cross Sections

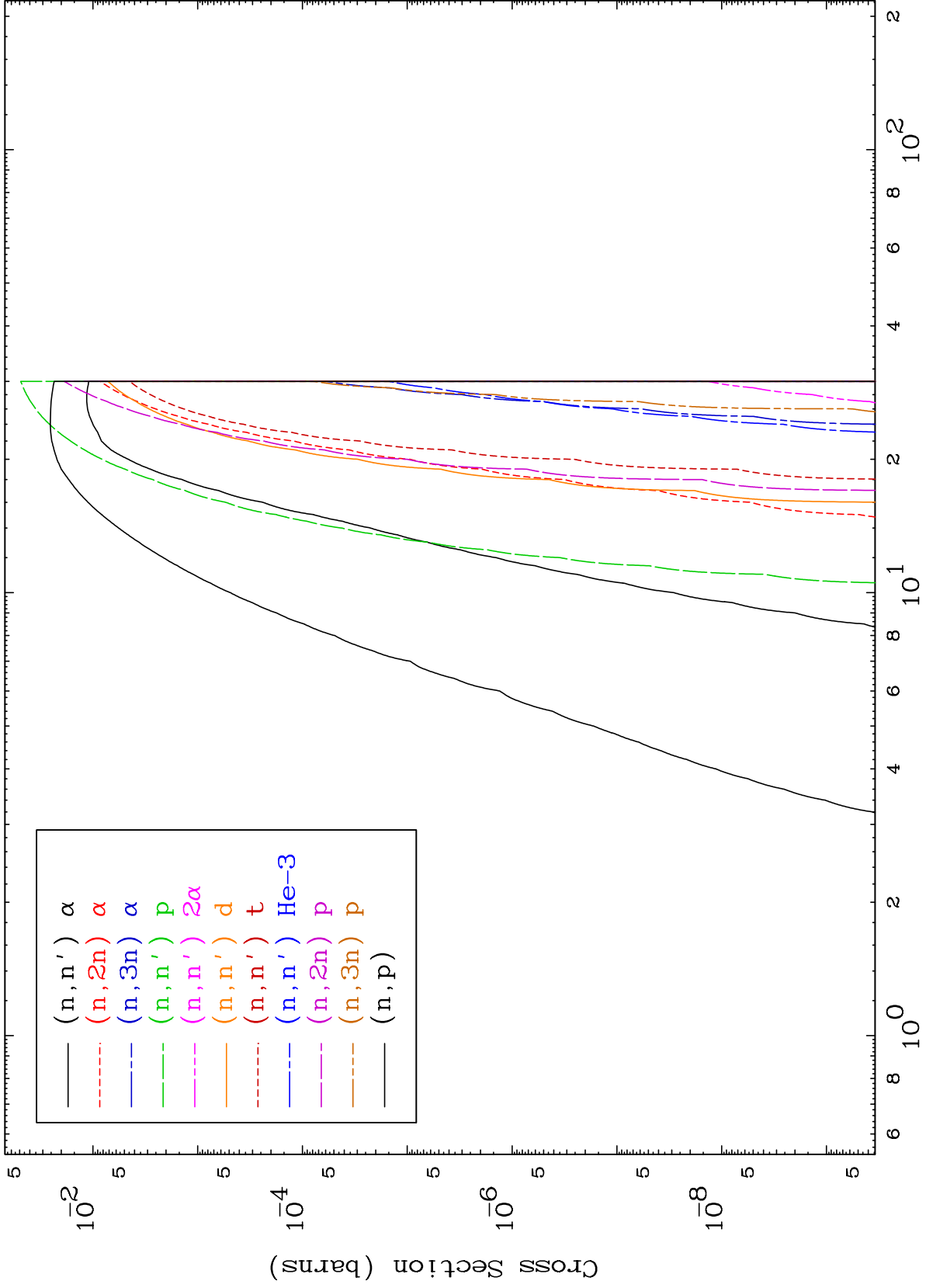
64-Gd-157



MAT 6440

Charged Particle  
293 Kelvin Cross Sections

64-Gd-157



5

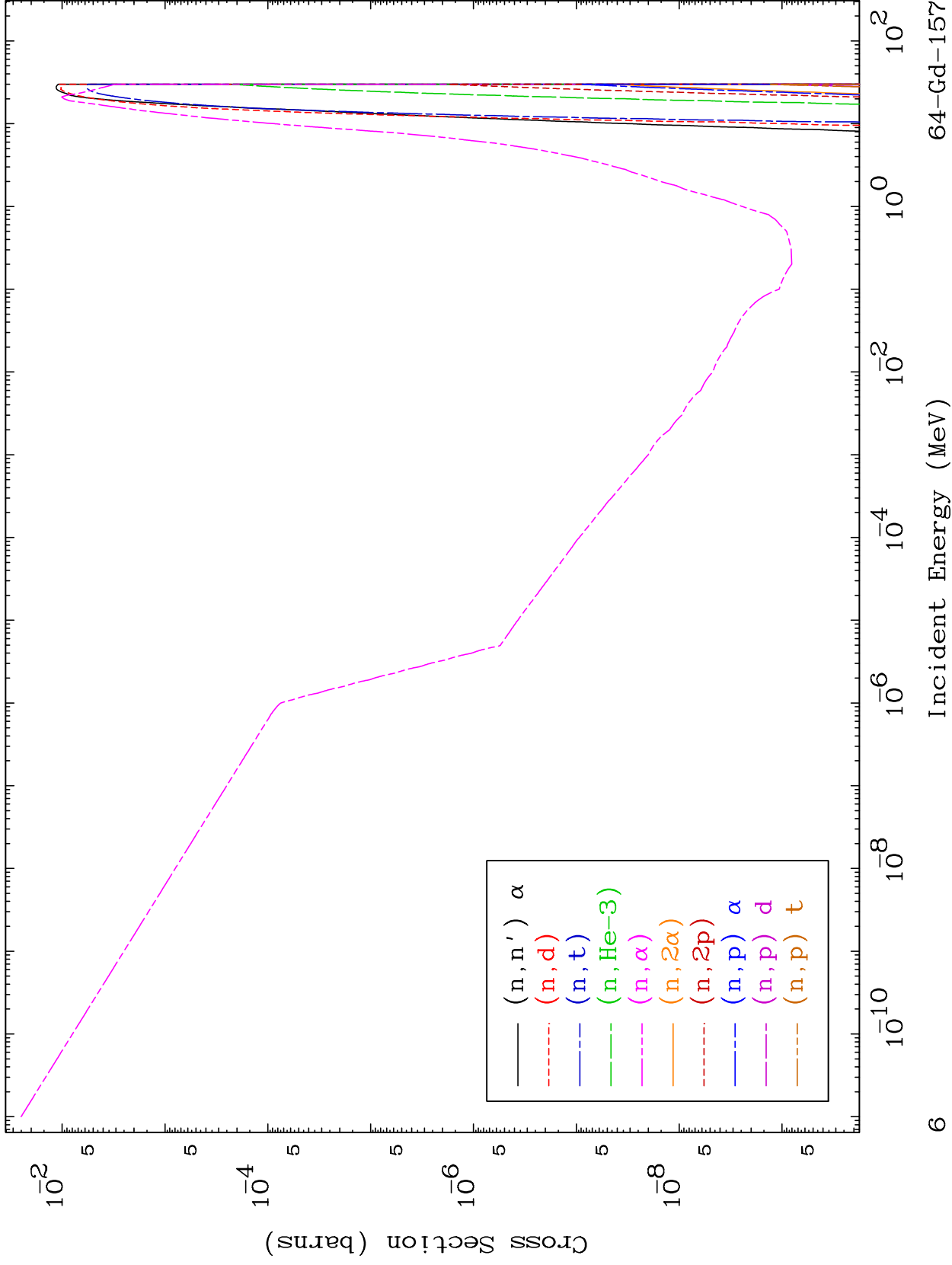
Incident Energy (MeV)

64-Gd-157

MAT 6440

Charged Particle  
293 Kelvin Cross Sections

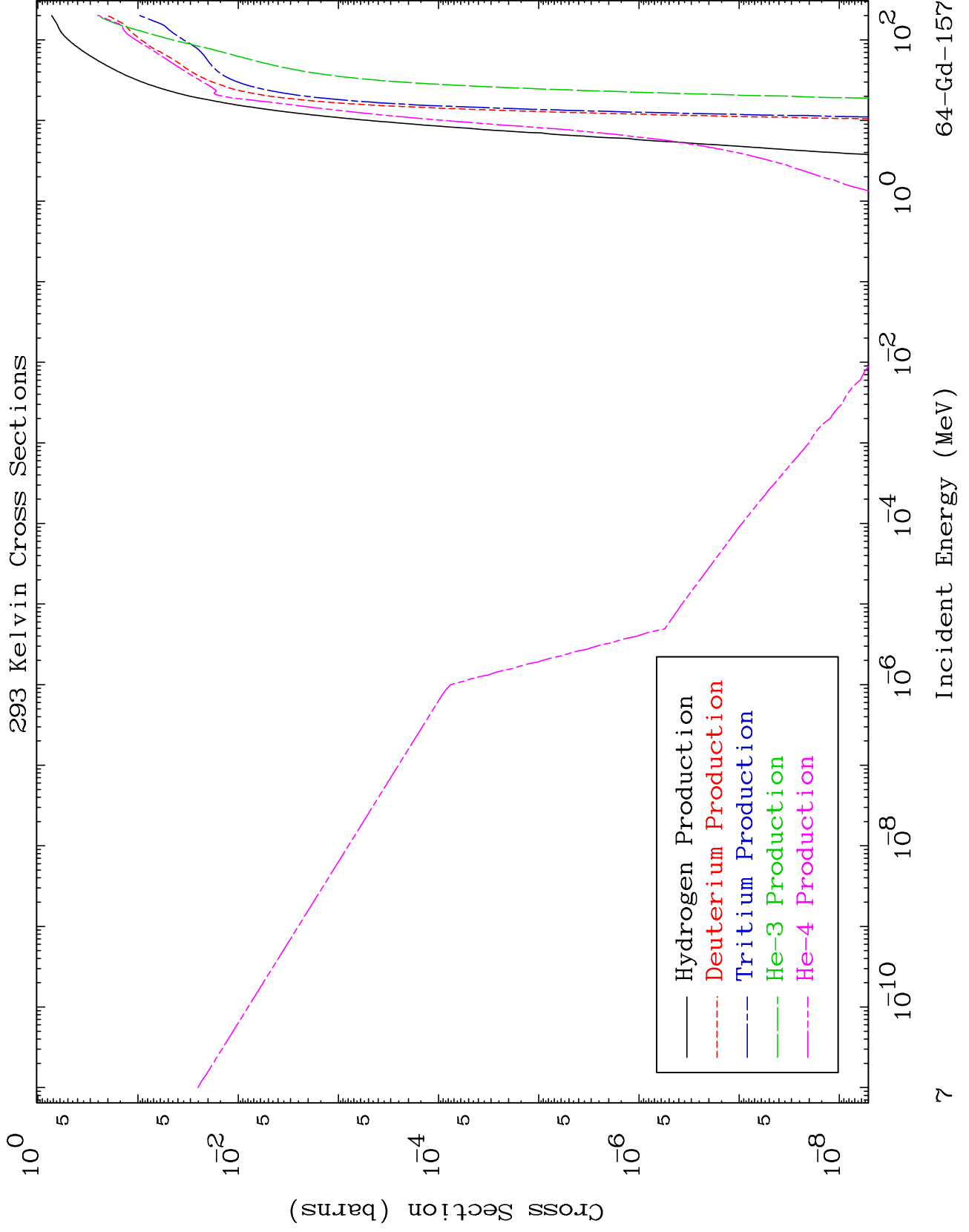
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MAT 6440

Particle Production  
293 Kelvin Cross Sections

64-Gd-157

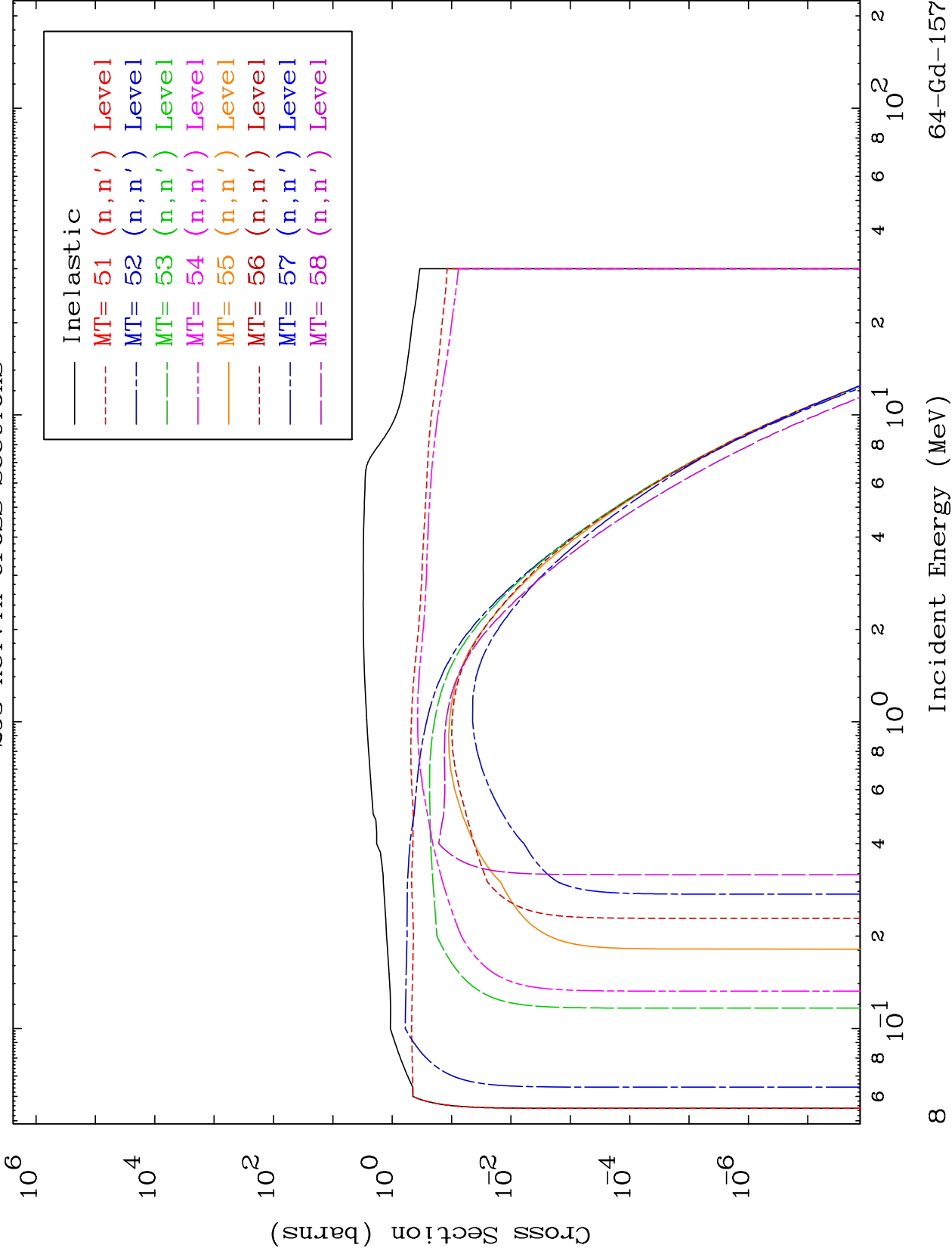


MAT 6440

(n,n') Levels

64-Gd-157

293 Kelvin Cross Sections

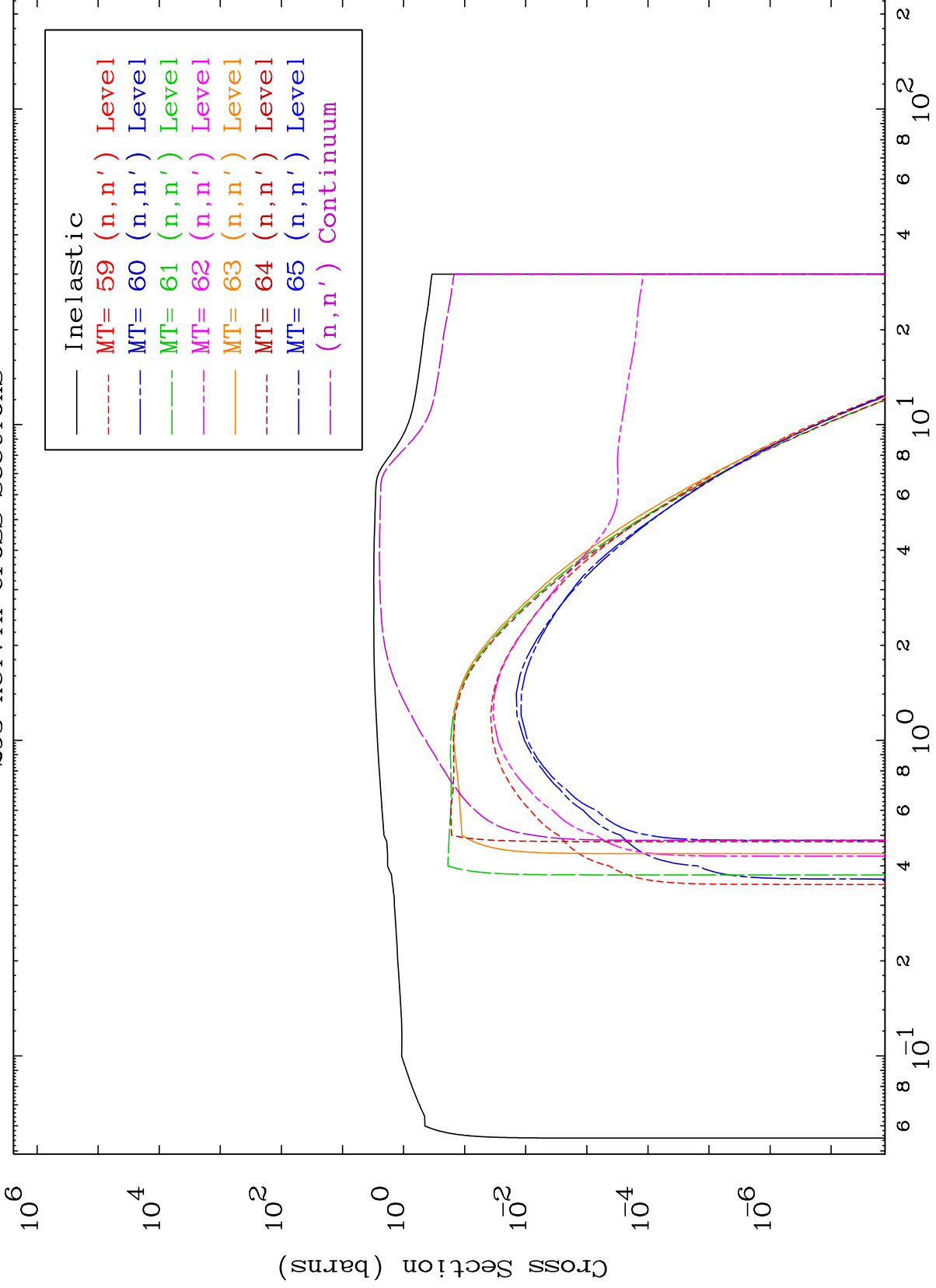


MAT 6440

(n,n') Levels

293 Kelvin Cross Sections

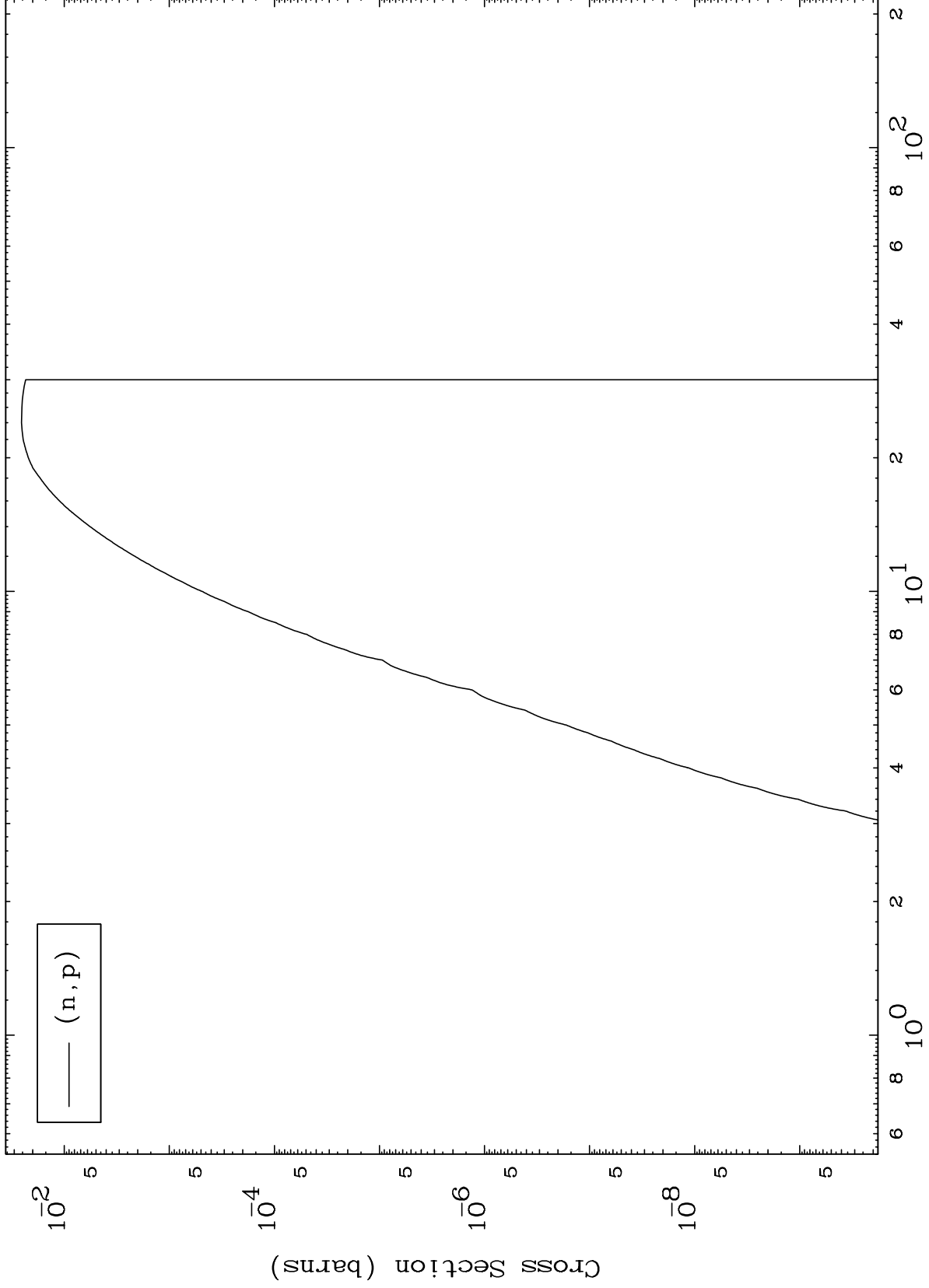
64-Gd-157



MAT 6440

(n,p) Levels  
293 Kelvin Cross Sections

64-Gd-157



10

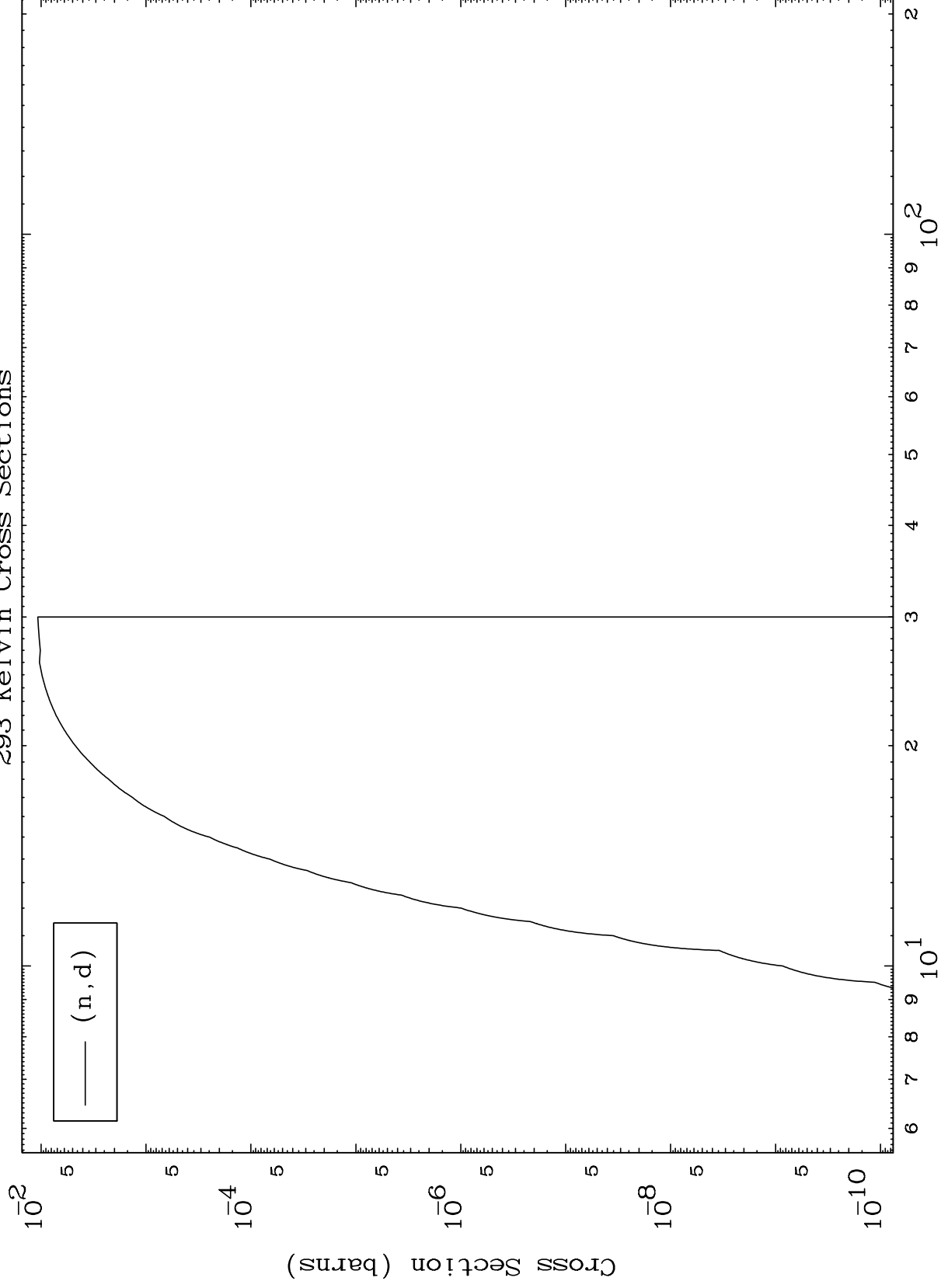
Incident Energy (MeV)

64-Gd-157

MAT 6440

(n,d) Levels  
293 Kelvin Cross Sections

64-Gd-157



11

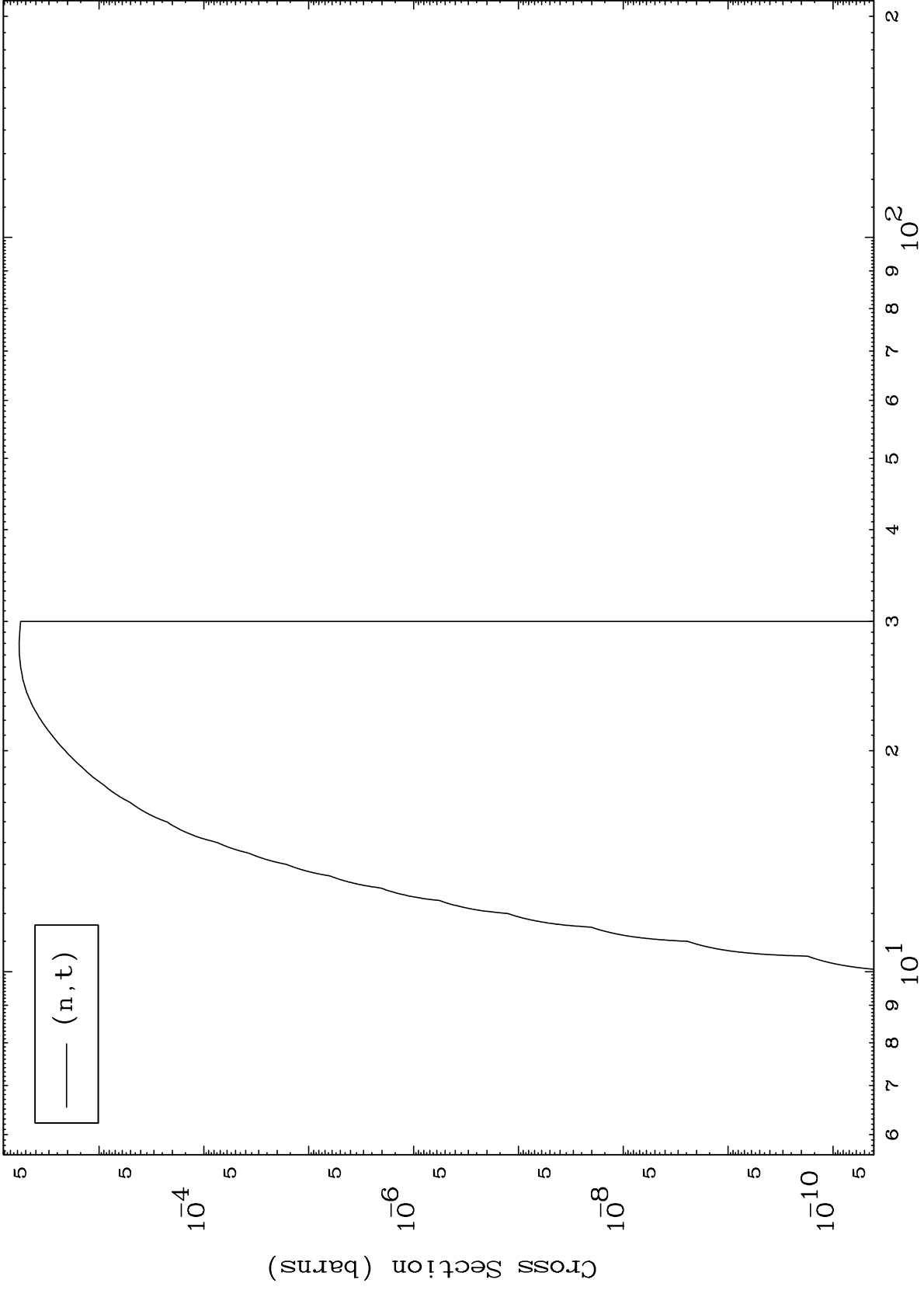
Incident Energy (MeV)

64-Gd-157

MAT 6440

(n,t) Levels  
293 Kelvin Cross Sections

64-Gd-157



(n,t)

12

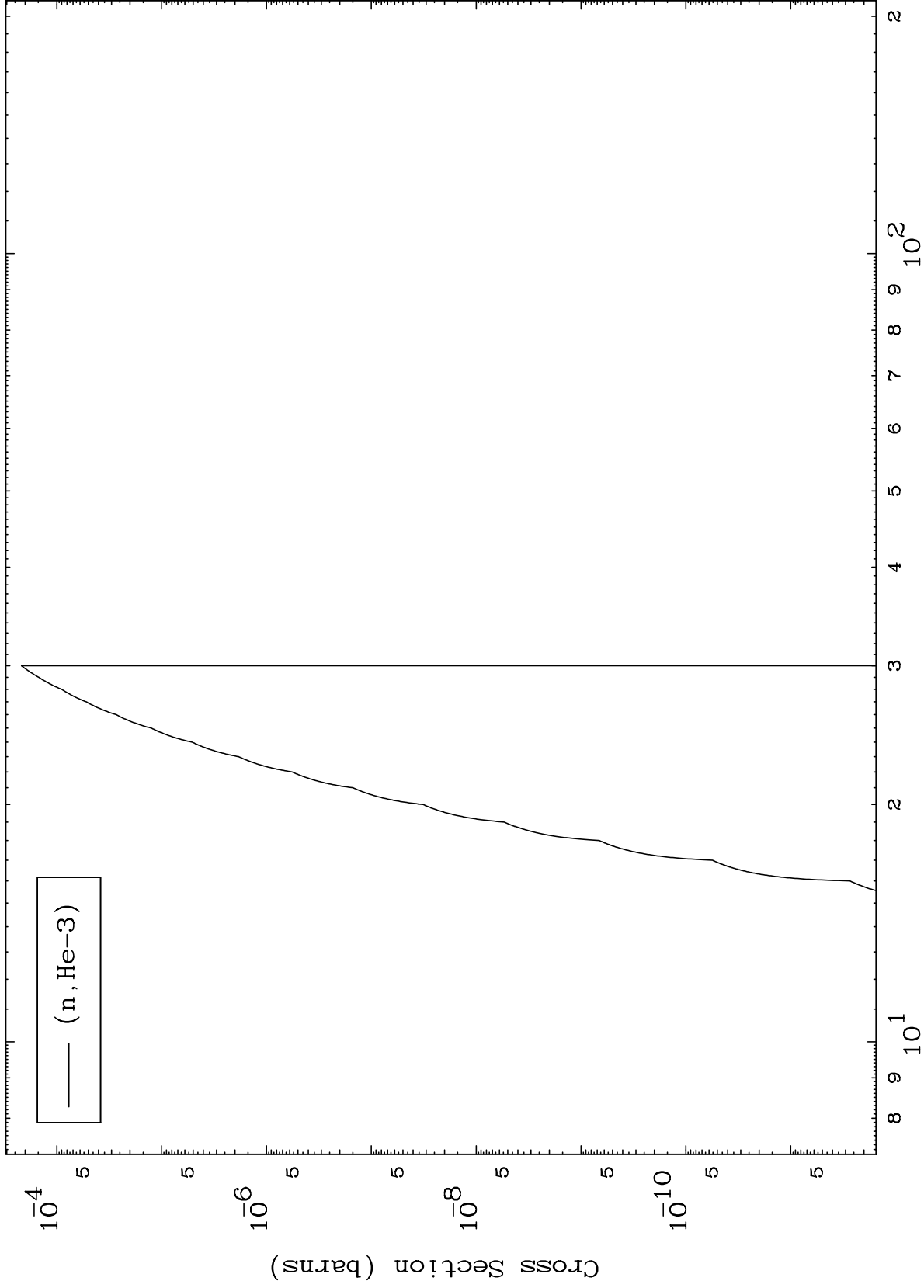
Incident Energy (MeV)

64-Gd-157

MAT 6440

(n,He3) Levels  
293 Kelvin Cross Sections

64-Gd-157



13

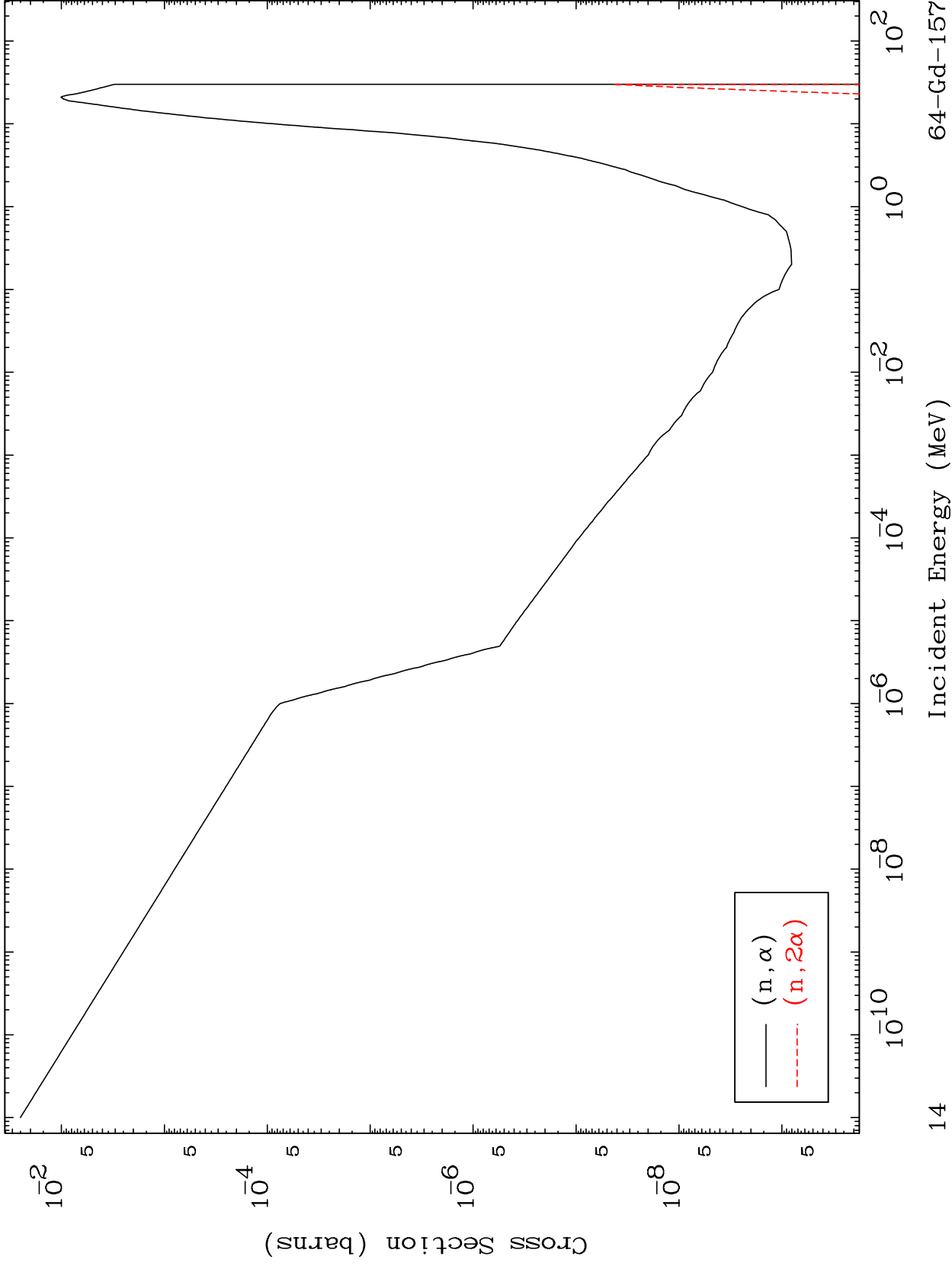
Incident Energy (MeV)

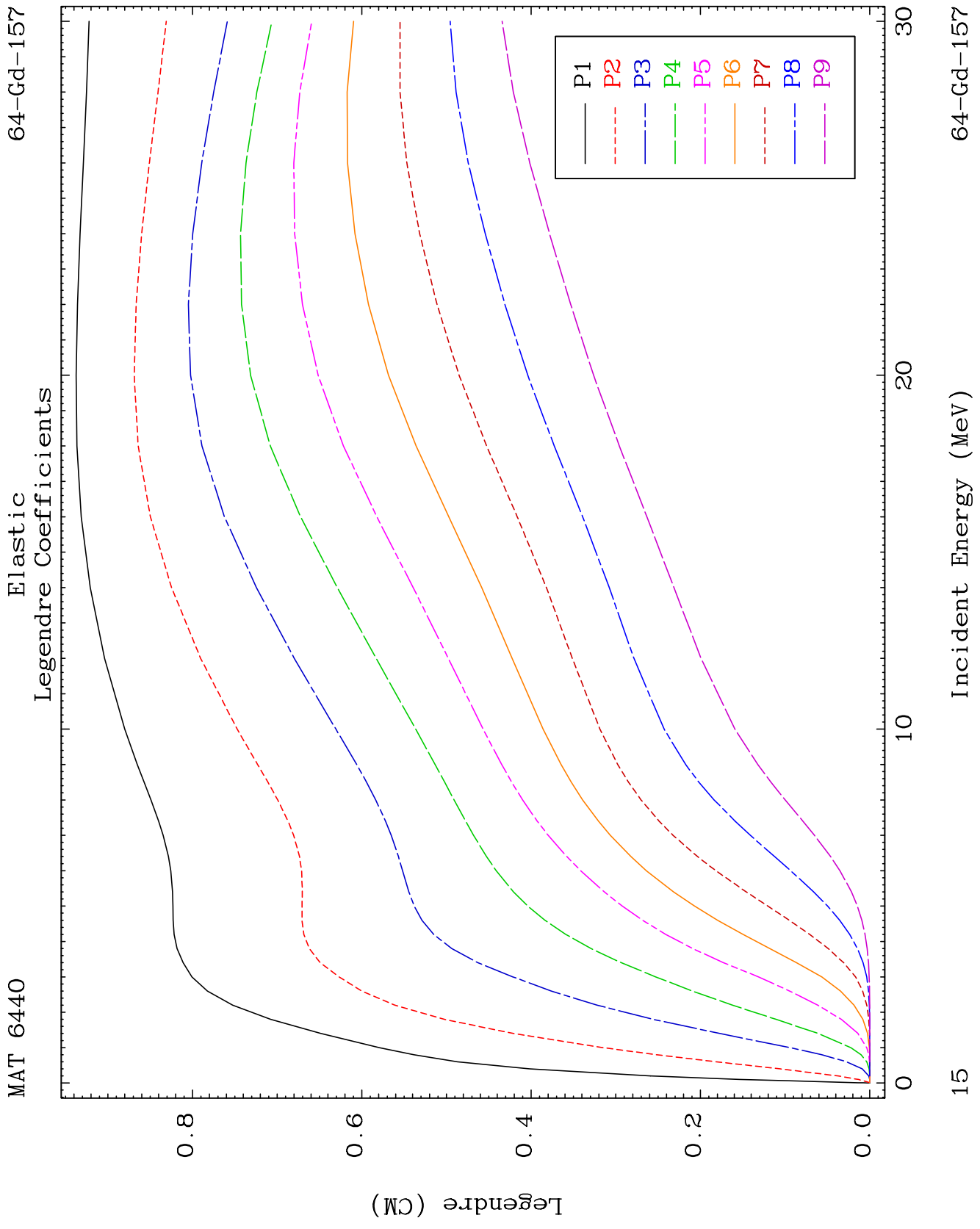
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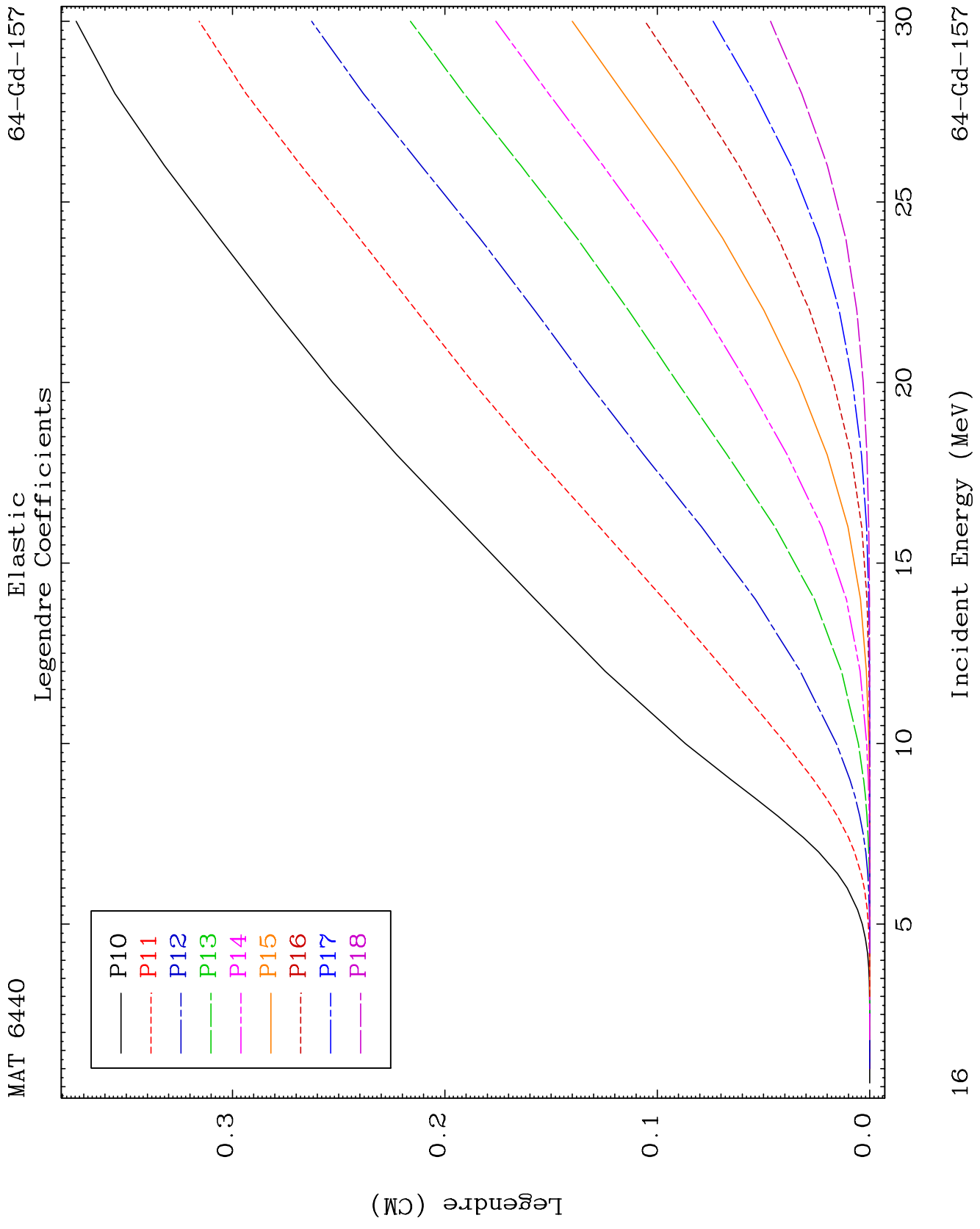
MAT 6440

(n,α) Levels  
293 Kelvin Cross Sections

64-Gd-157



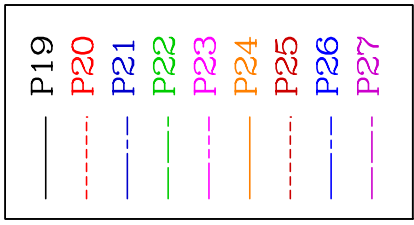
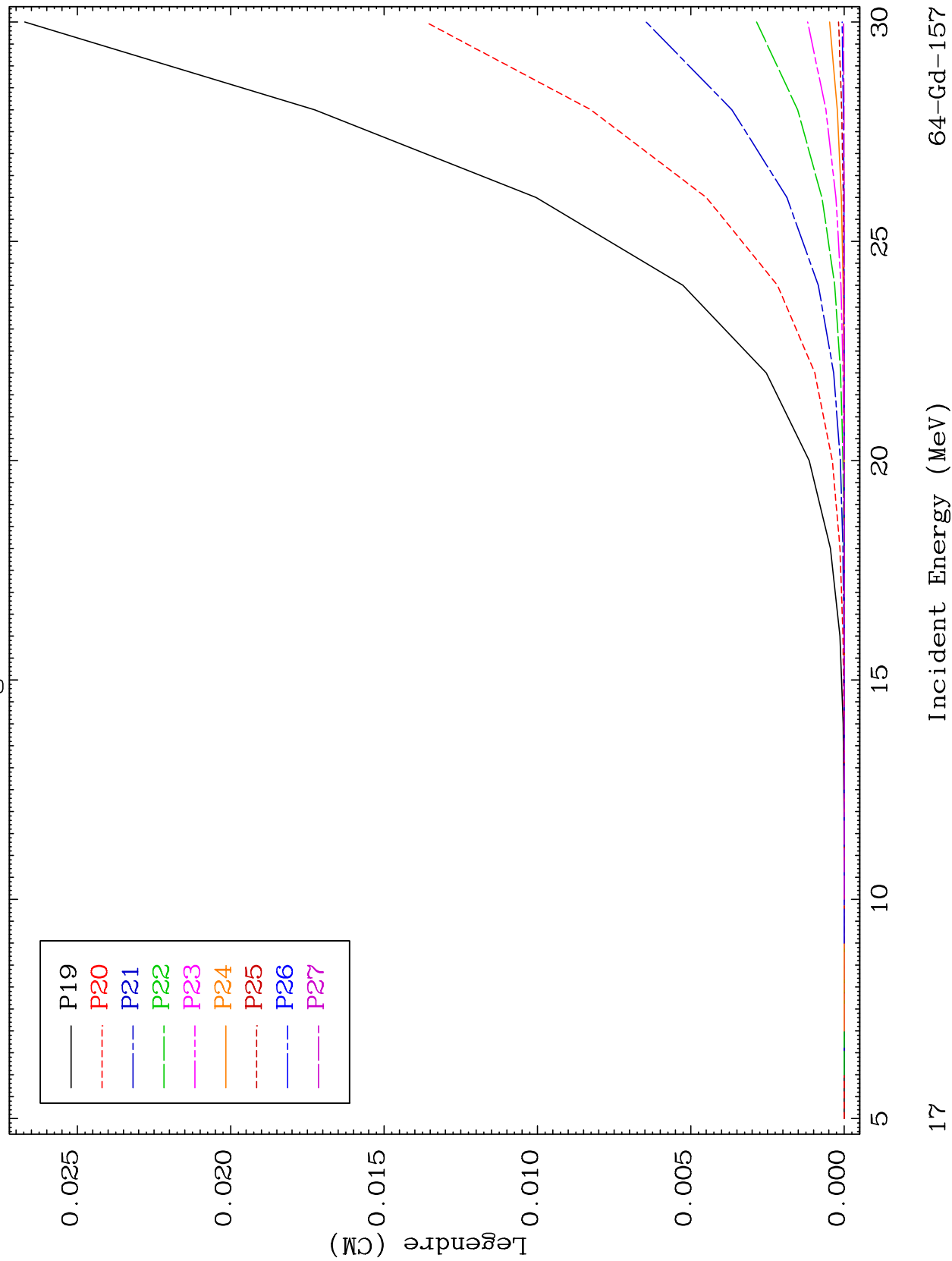




MAT 6440

### Elastic Legendre Coefficients

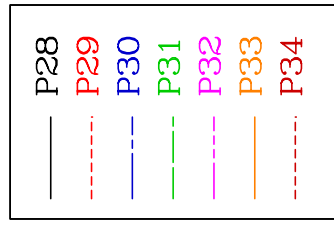
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MAT 6440

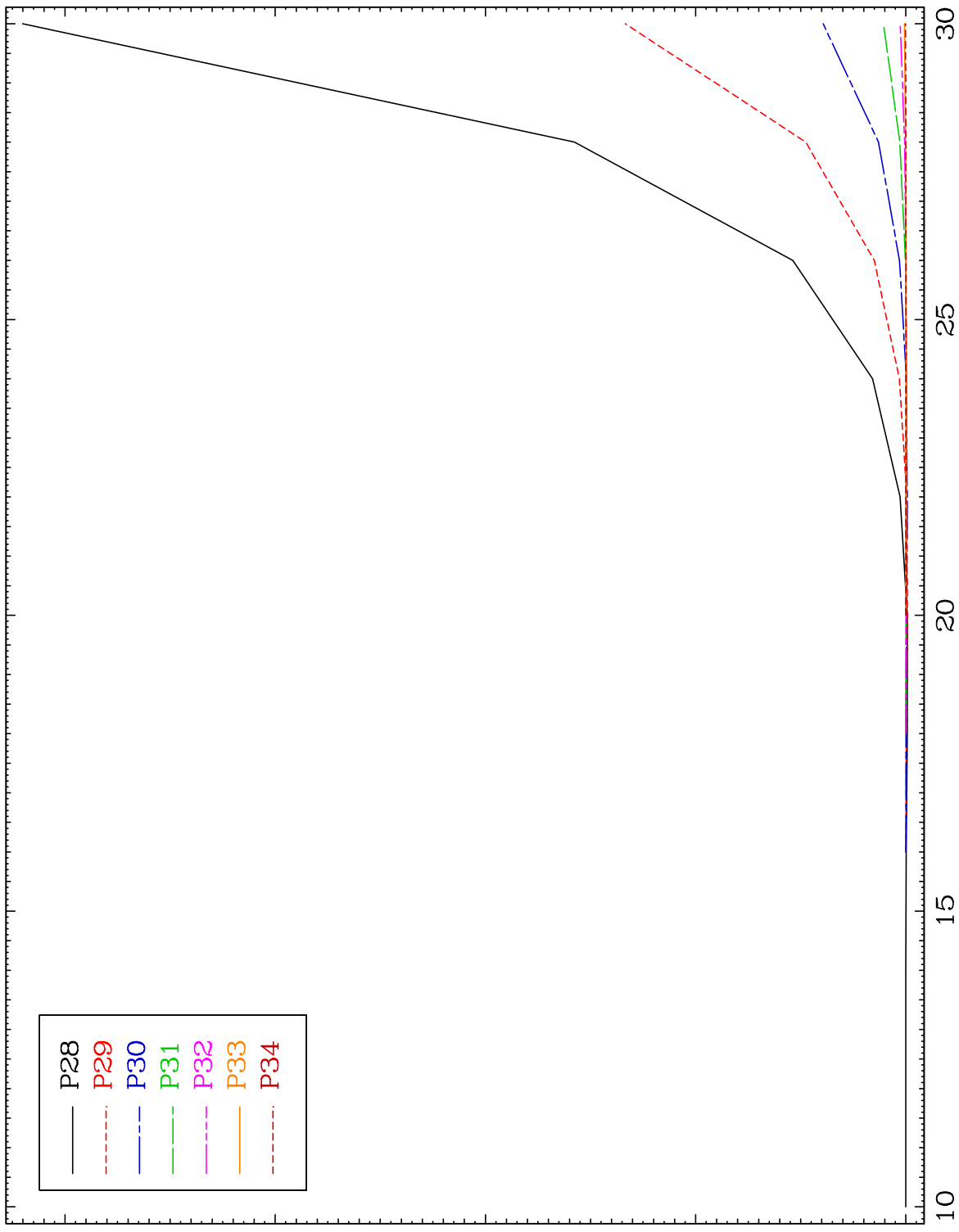
Elastic Legendre Coefficients

64-Gd-157



$\times 10^{-68}$

Legendre (CM)



18

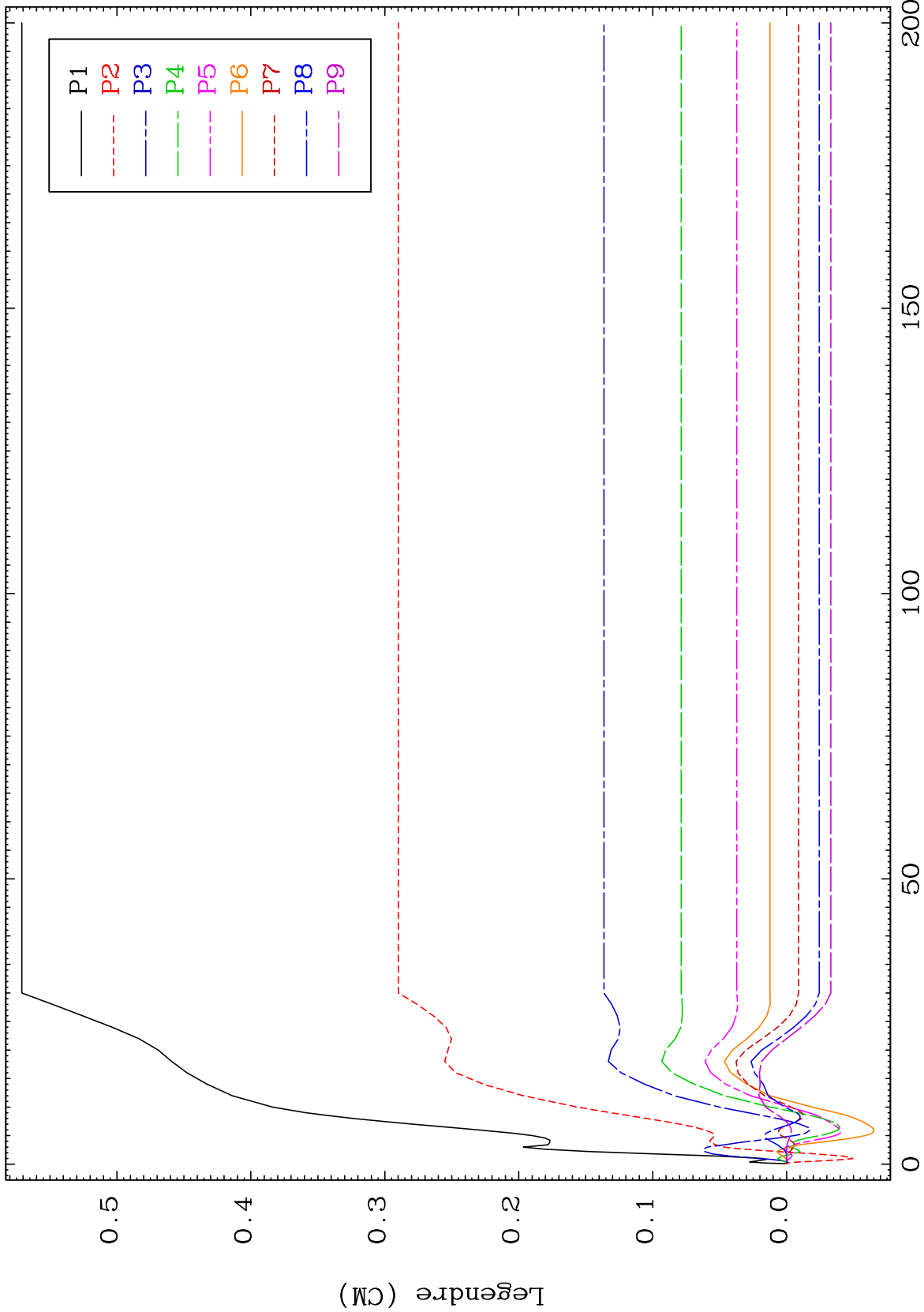
Incident Energy (MeV)

64-Gd-157

MAT 6440

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

64-Gd-157



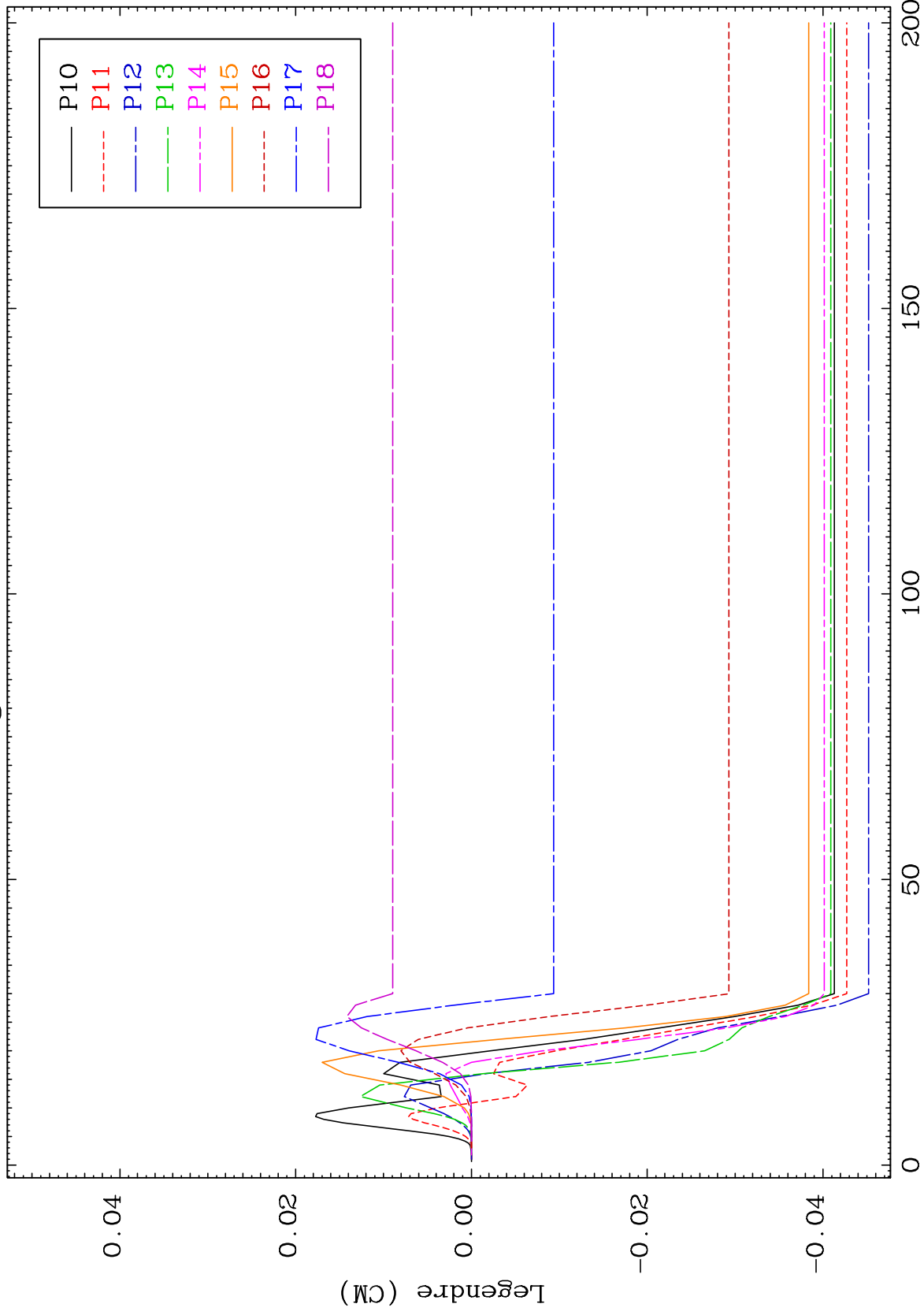
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64-Gd-157

MAT 6440

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

64-Gd-157



20

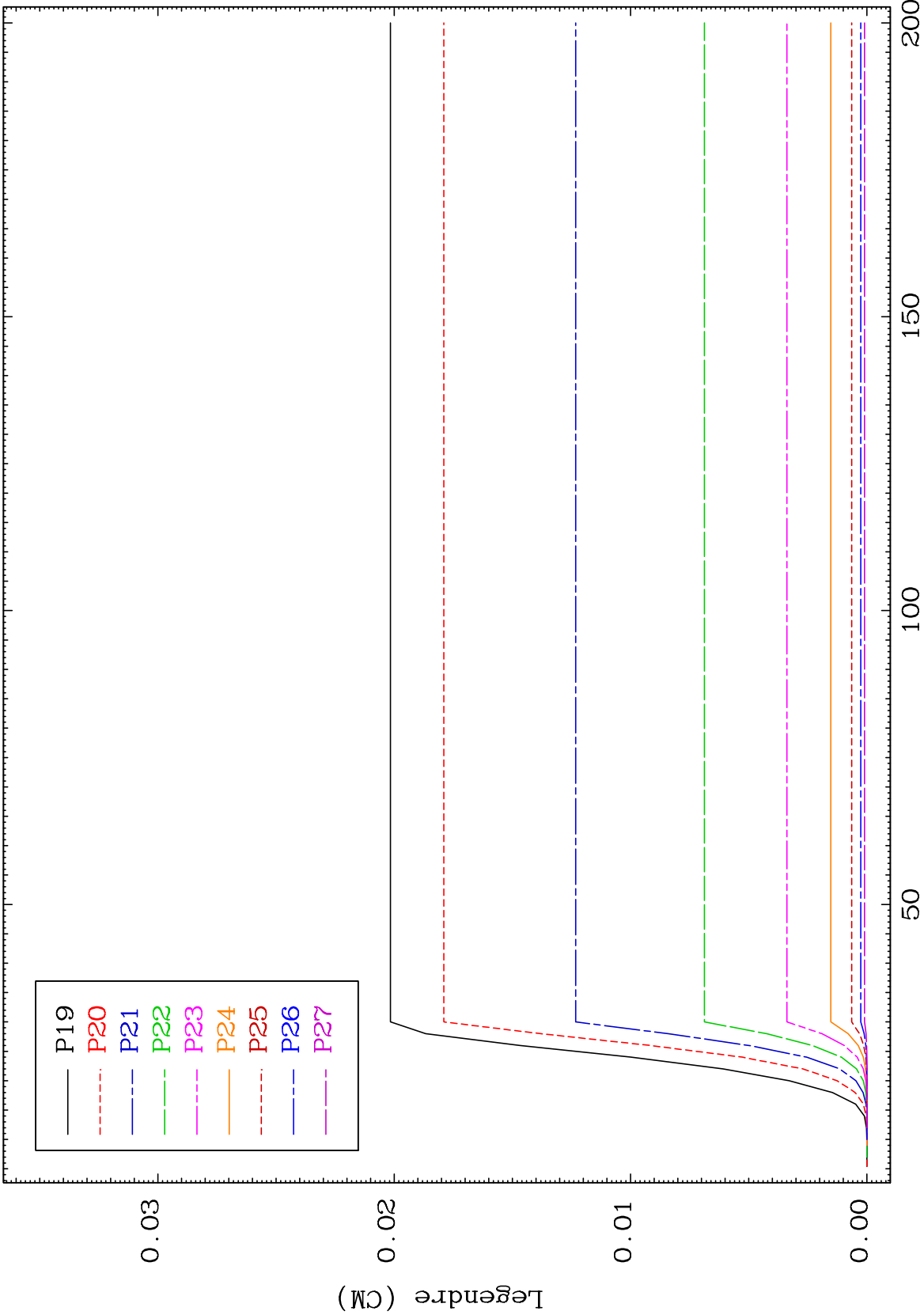
Incident Energy (MeV)

64-Gd-157

MAT 6440

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

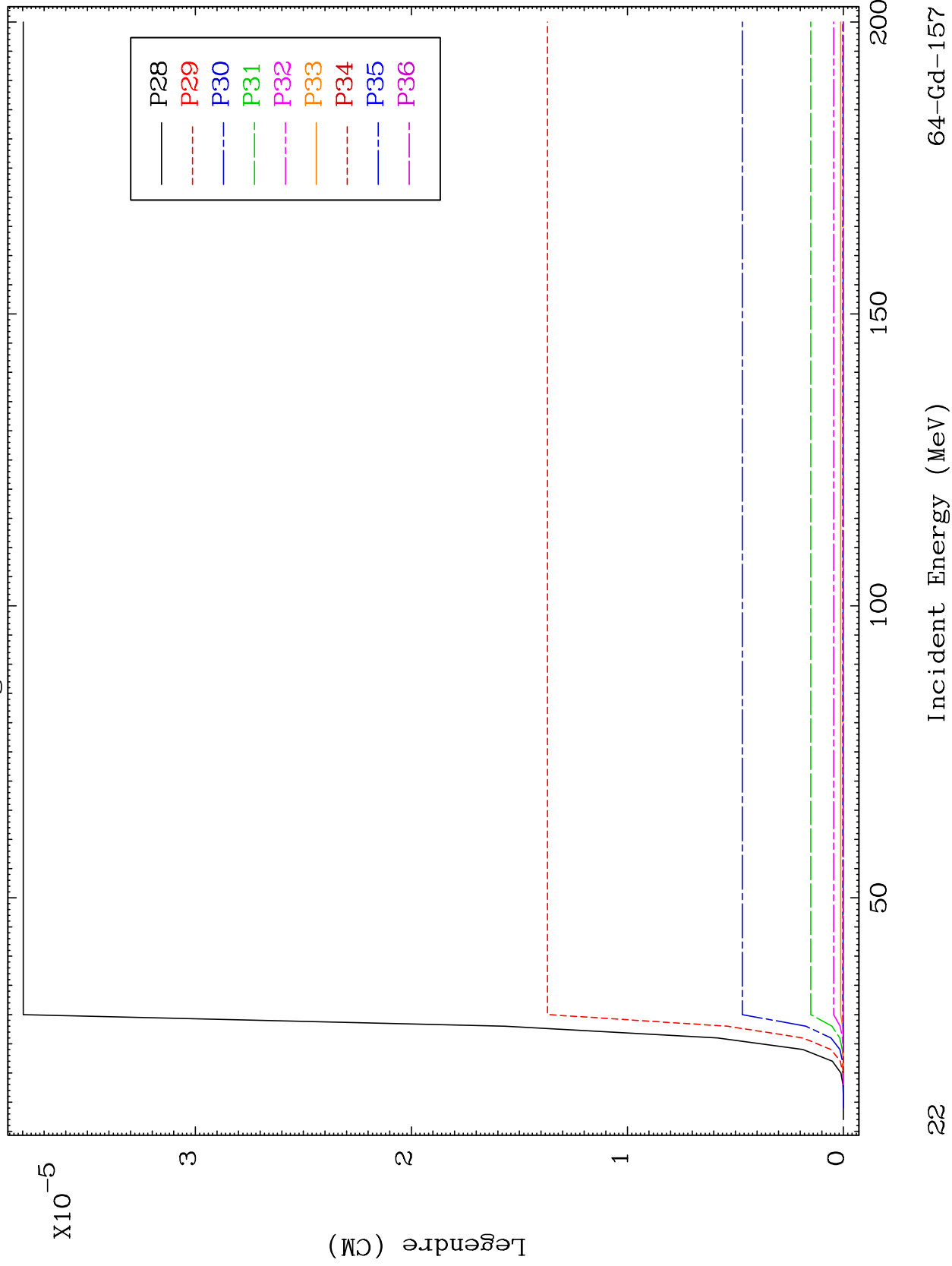
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MAT 6440

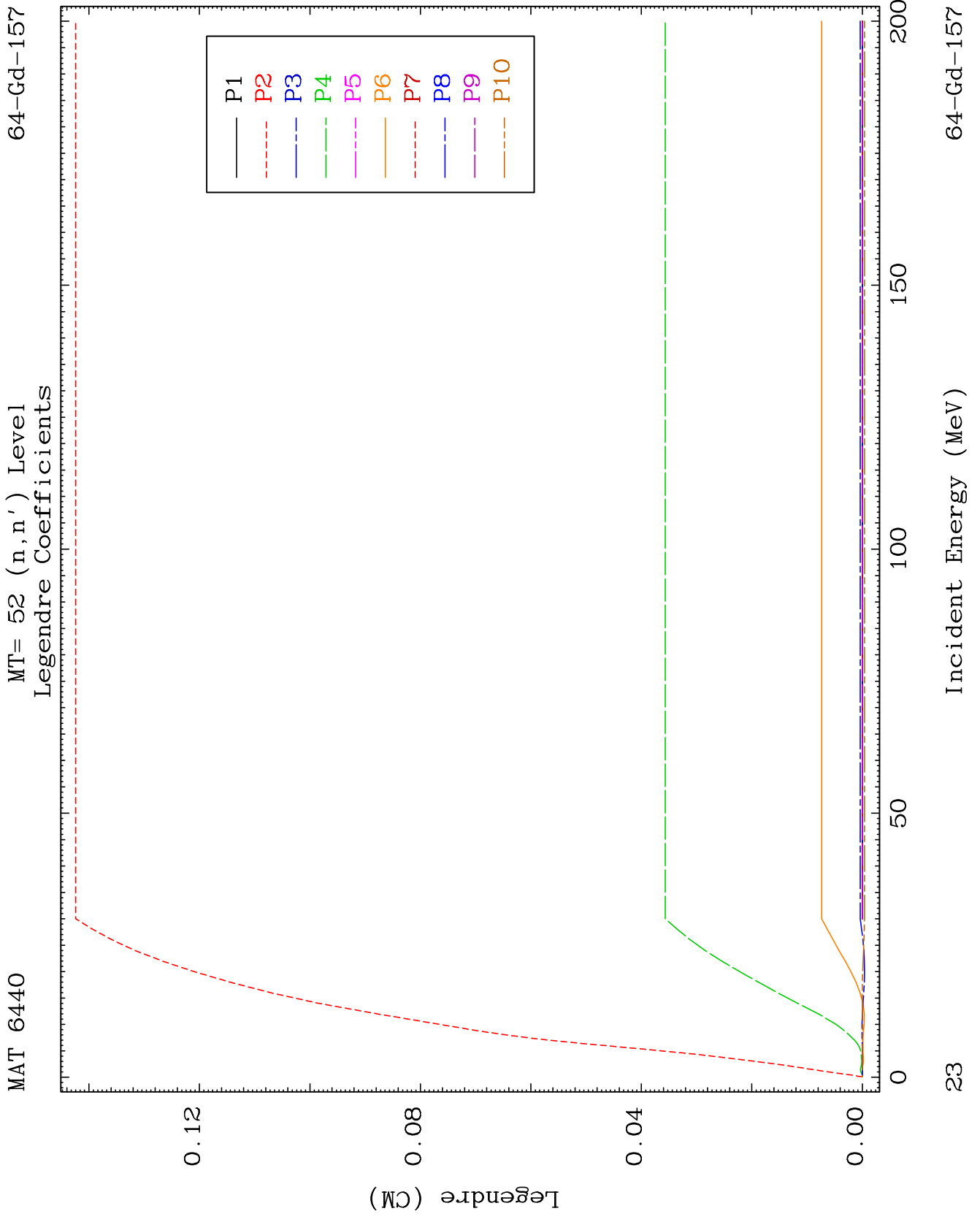
MT= 51 (n,n') Level  
Legendre Coefficients

64-Gd-157



22

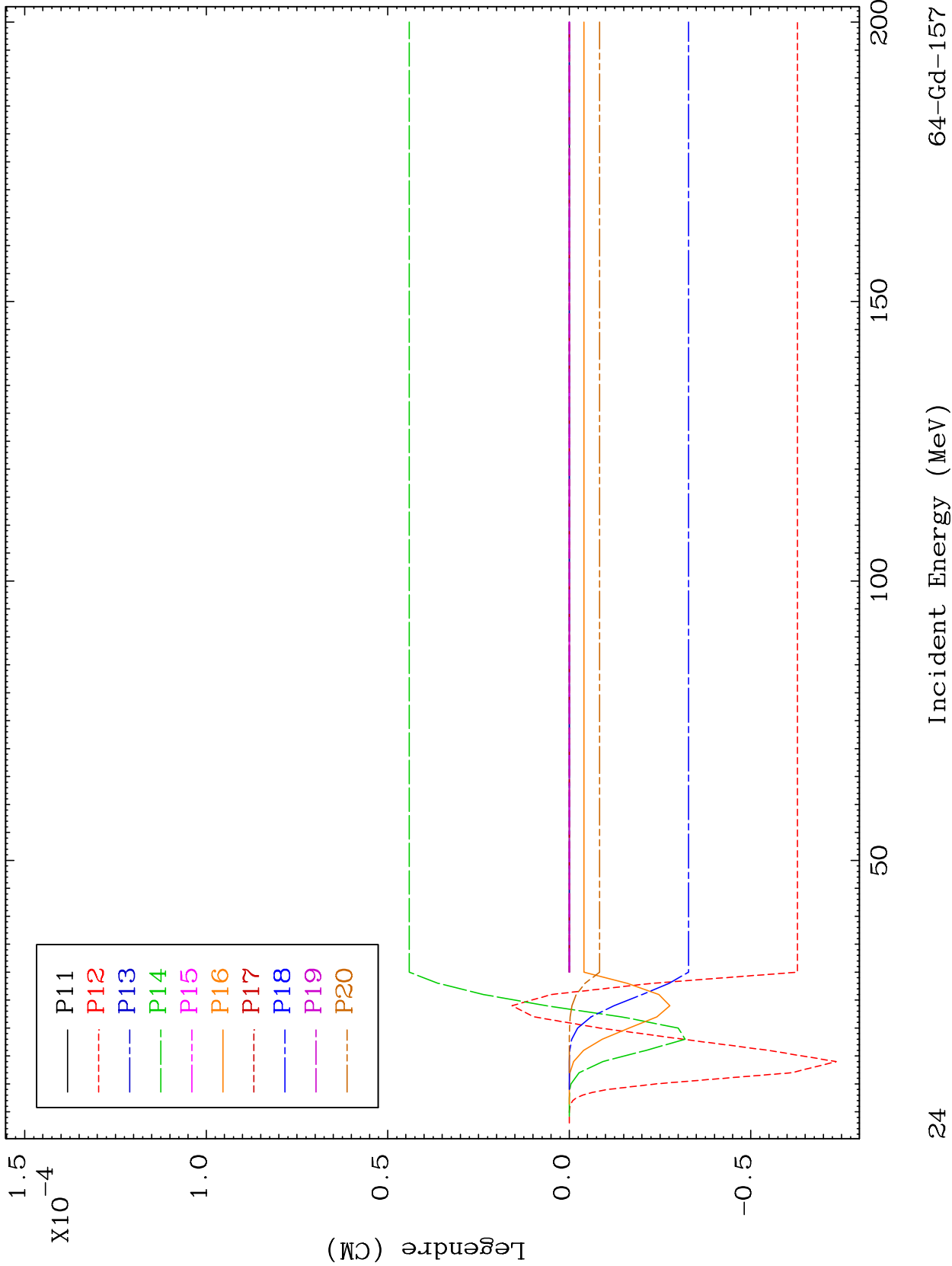
64-Gd-157



MAT 6440

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

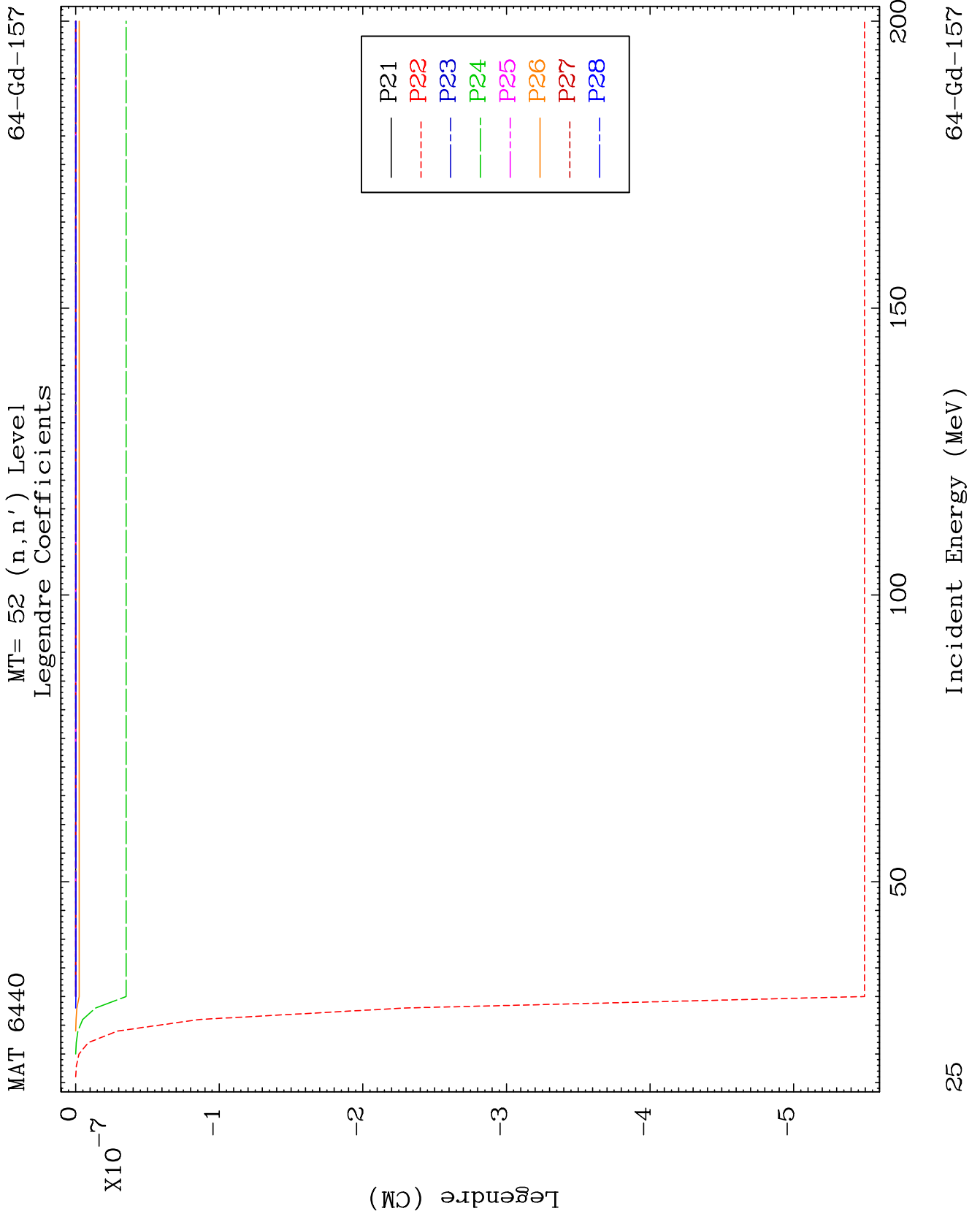
64-Gd-157



24

Incident Energy (MeV)

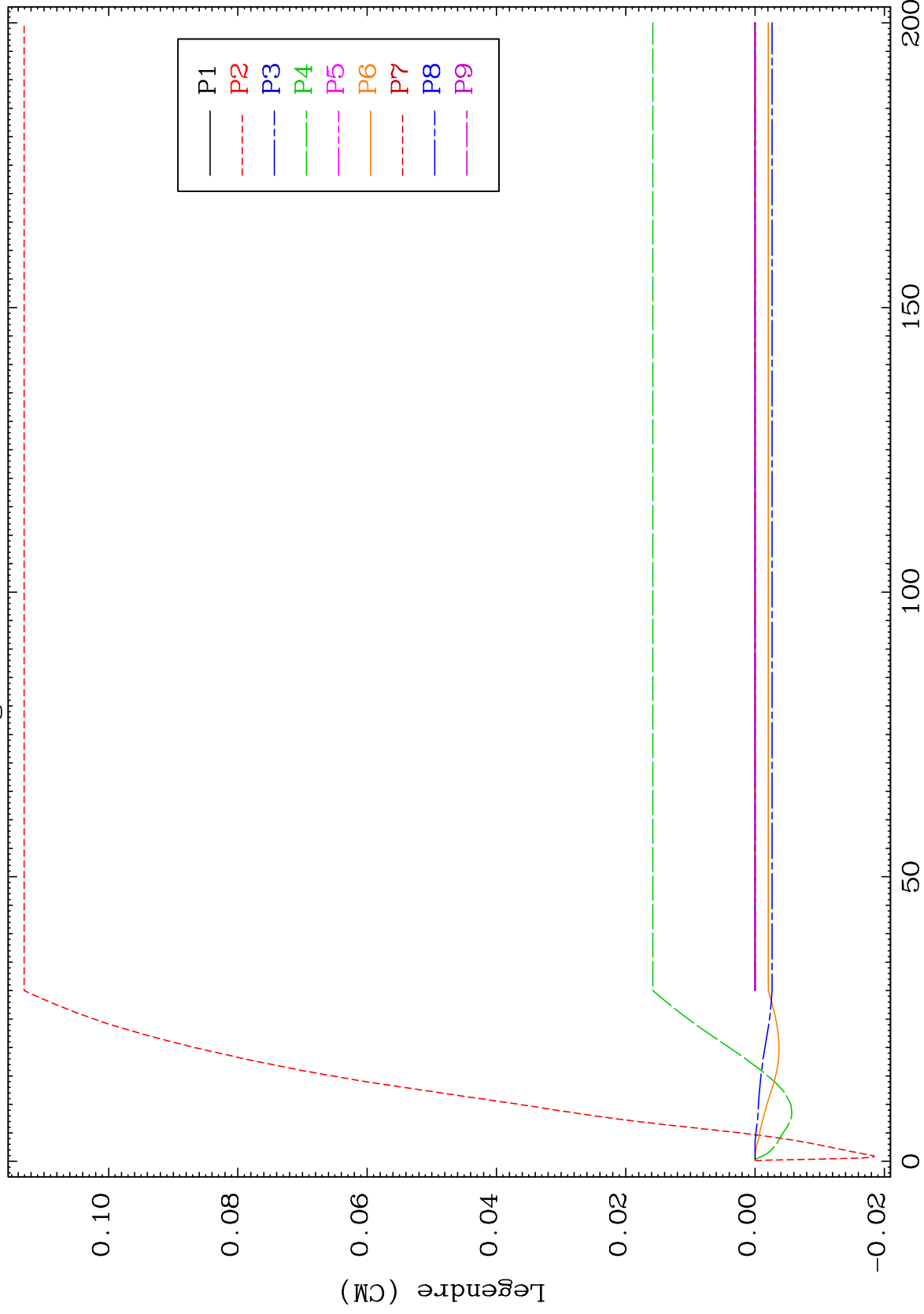
64-Gd-157



MAT 6440

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

64-Gd-157



26

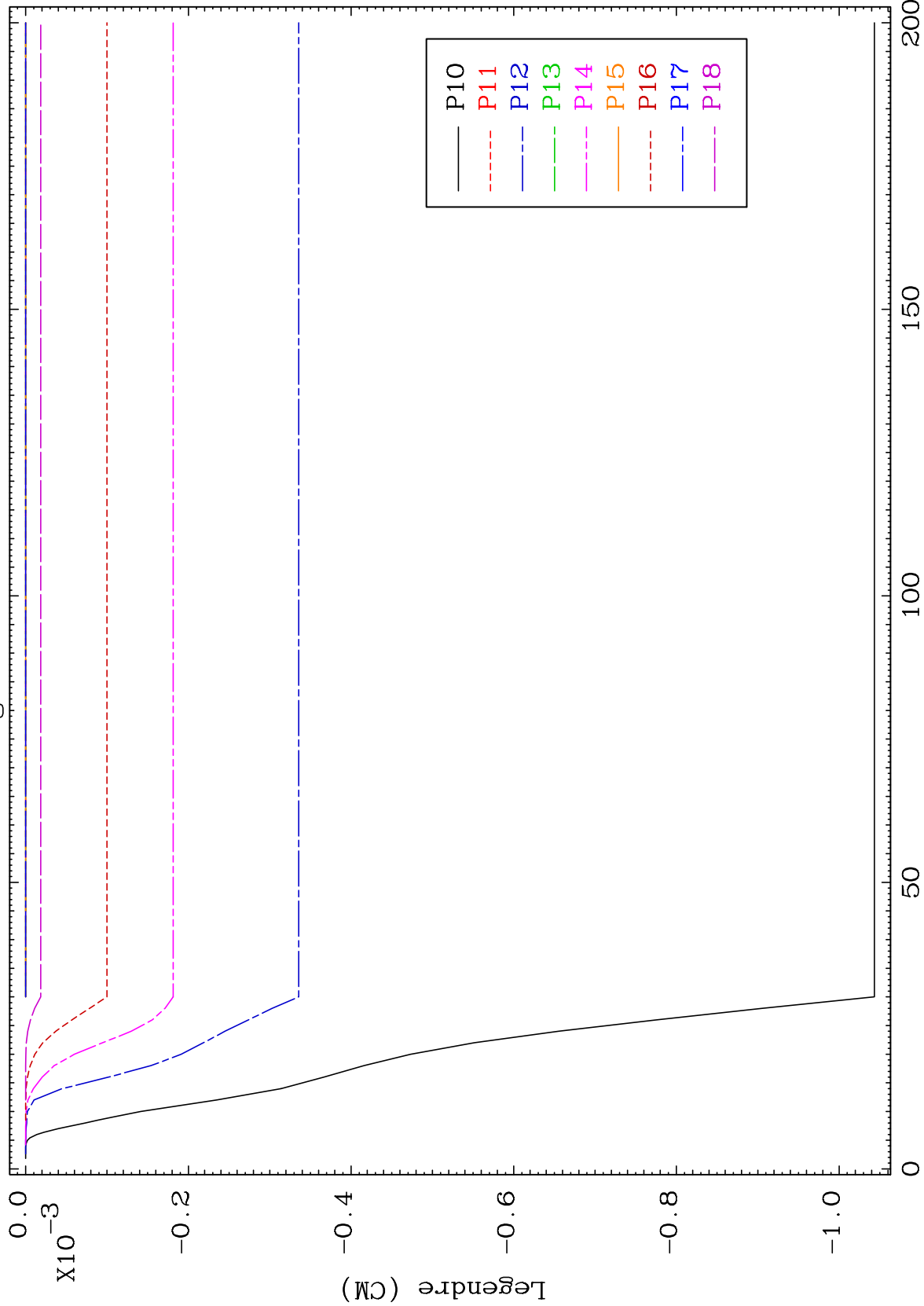
Incident Energy (MeV)

64-Gd-157

MAT 6440

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

64-Gd-157



27

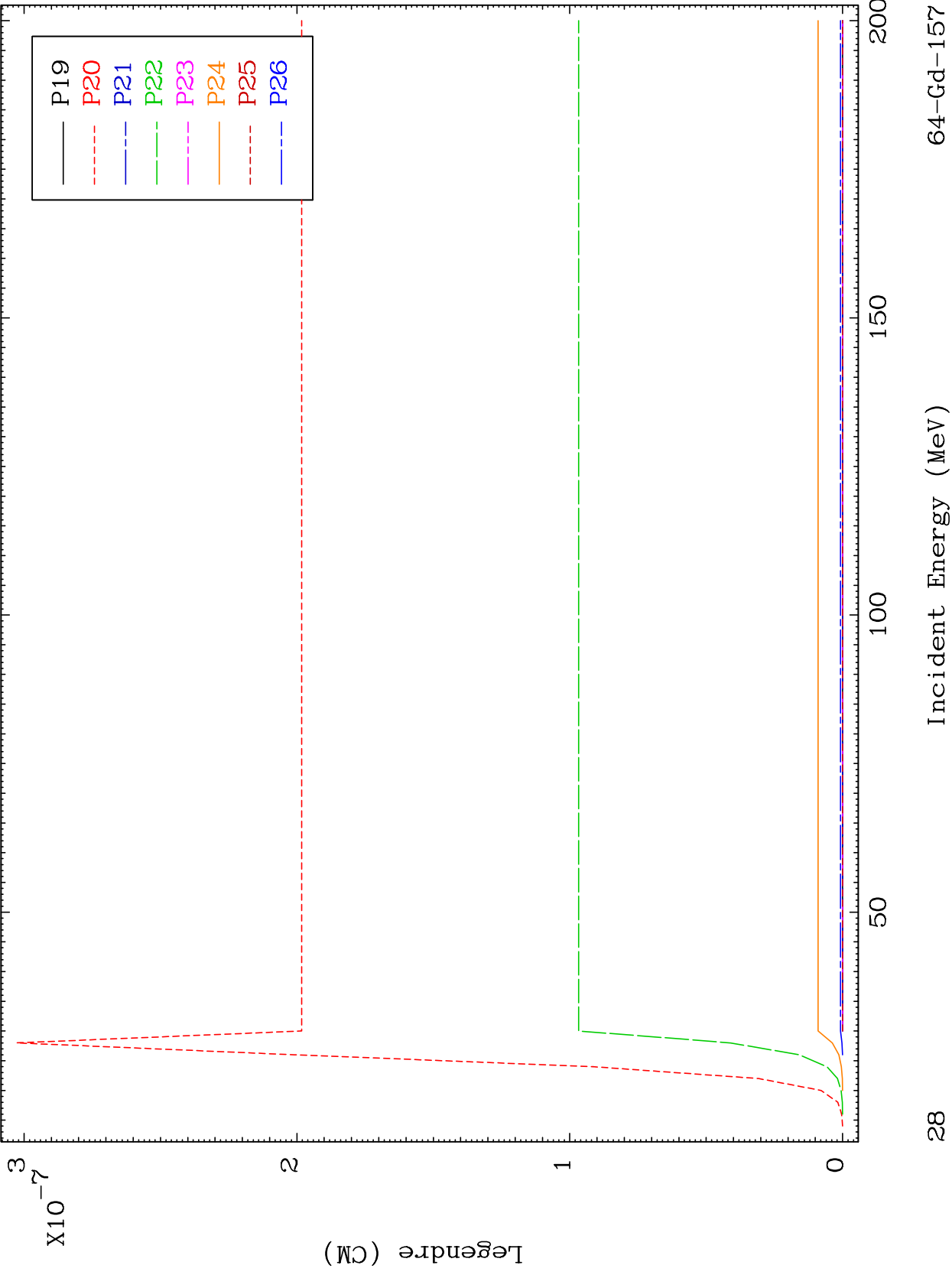
Incident Energy (MeV)

64-Gd-157

MAT 6440

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

64-Gd-157



28

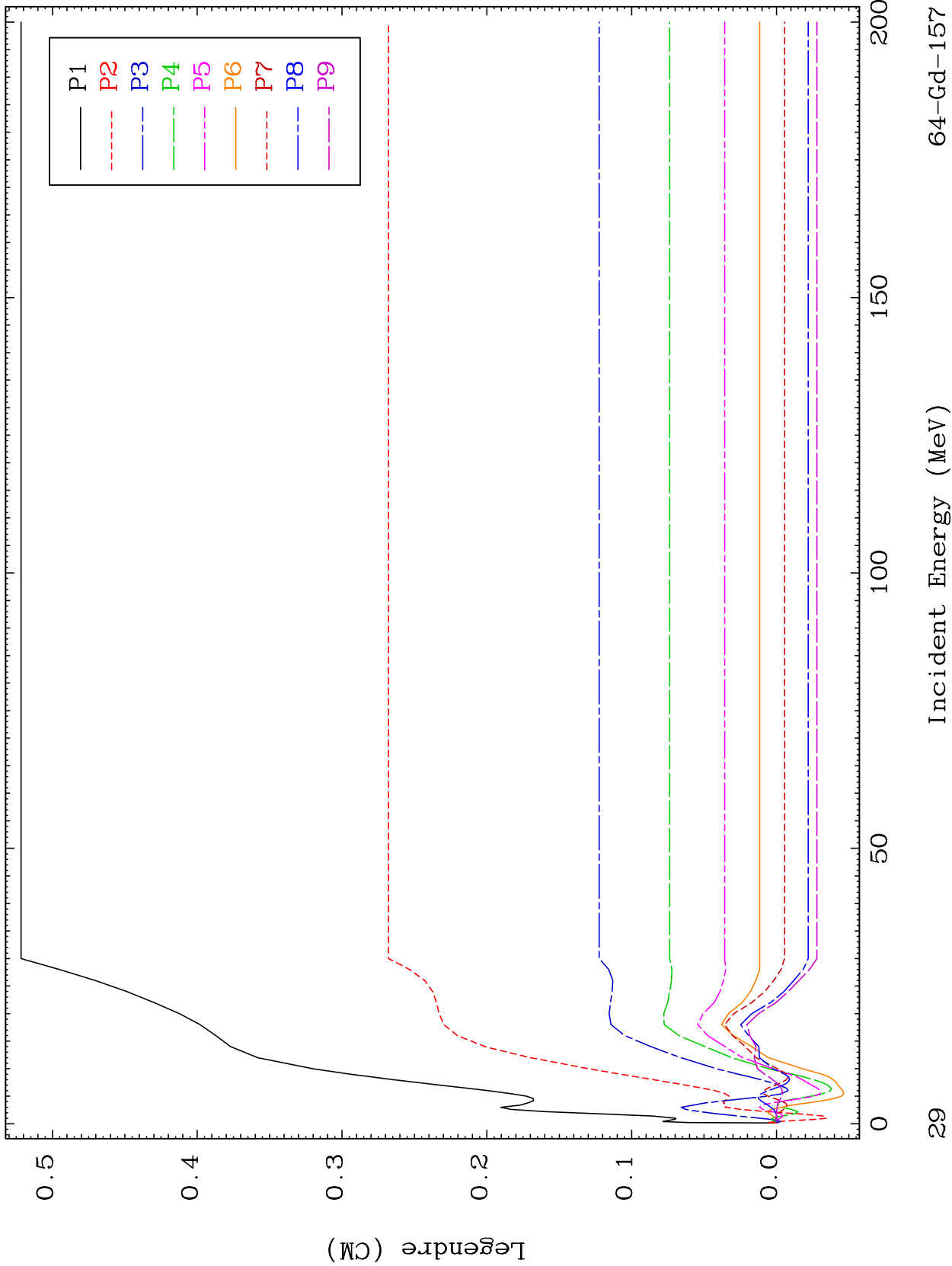
Incident Energy (MeV)

64-Gd-157

MAT 6440

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

64-Gd-157



64-Gd-157

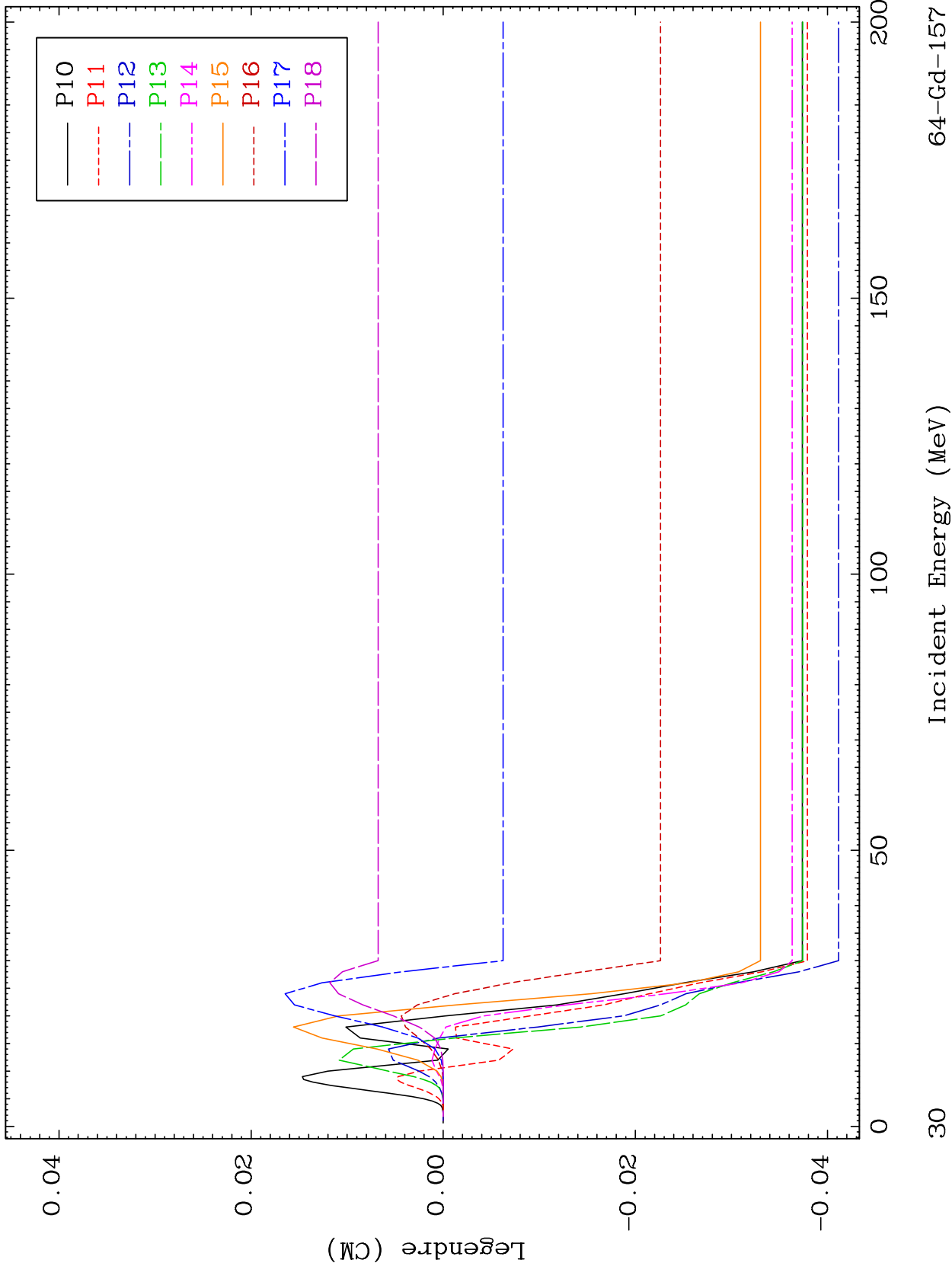
Incident Energy (MeV)

29

MAT 6440

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

64-Gd-157



64-Gd-157

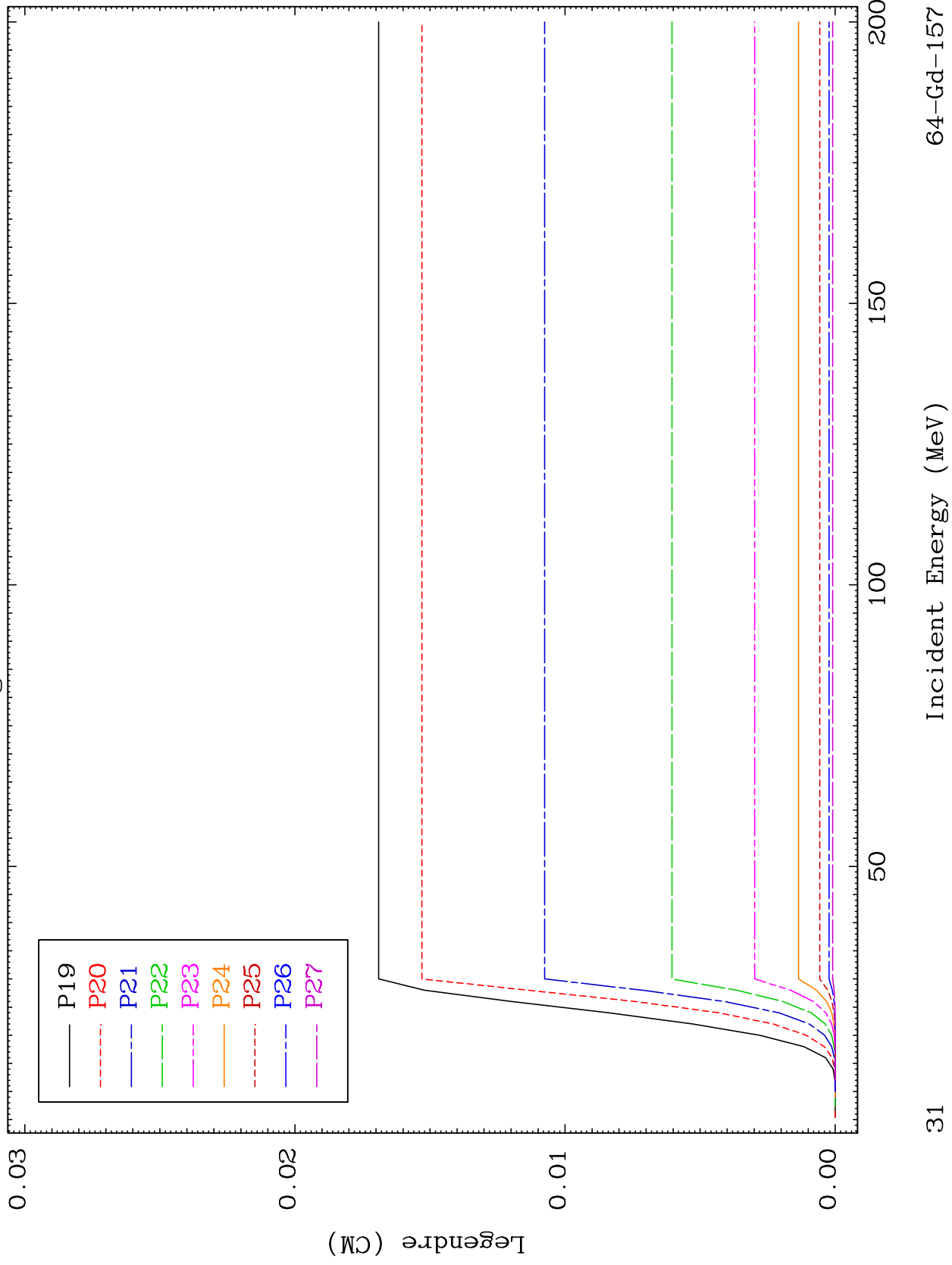
Incident Energy (MeV)

30

MAT 6440

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

64-Gd-157



31

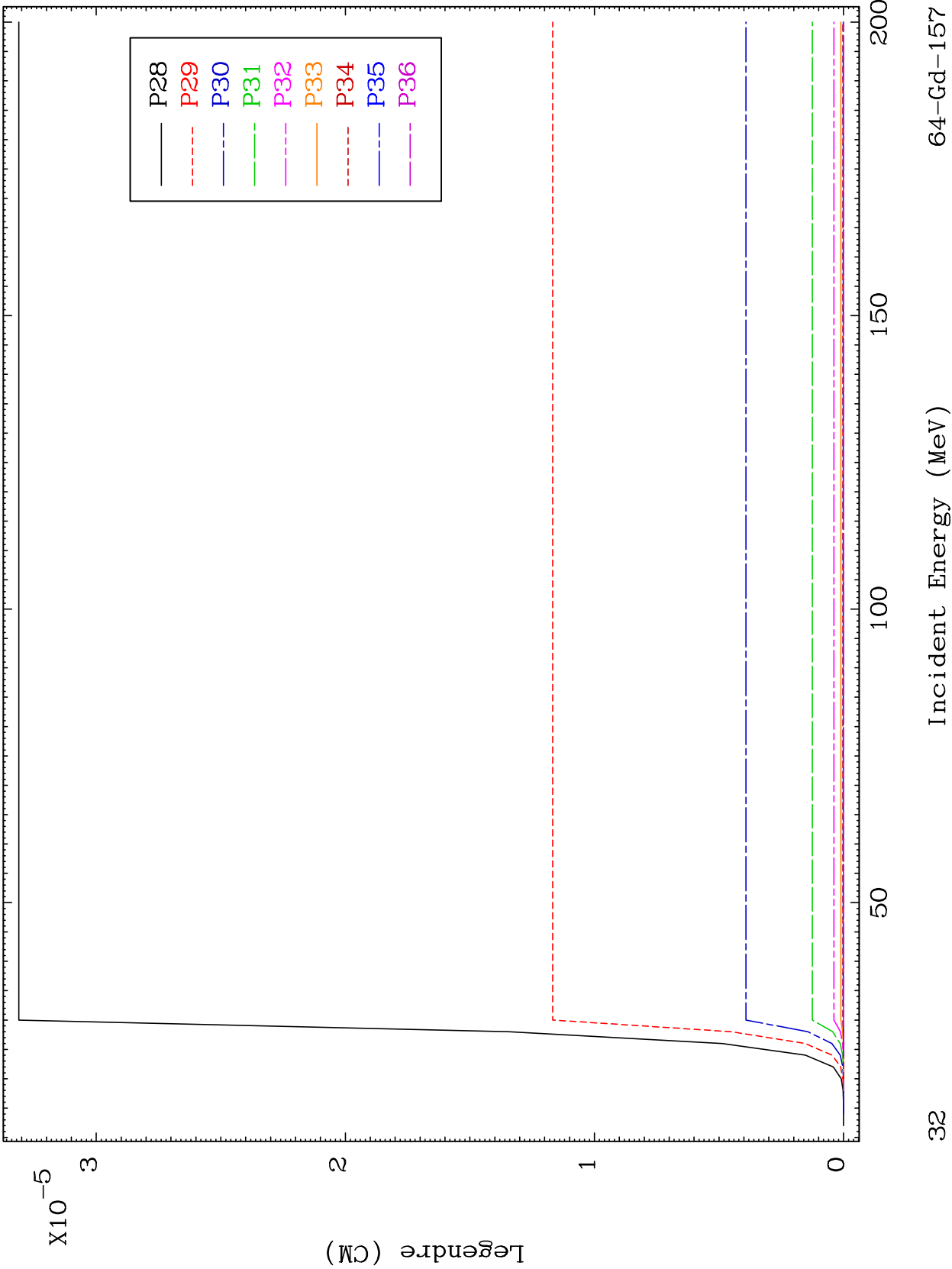
Incident Energy (MeV)

64-Gd-157

MAT 6440

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

64-Gd-157



32

Incident Energy (MeV)

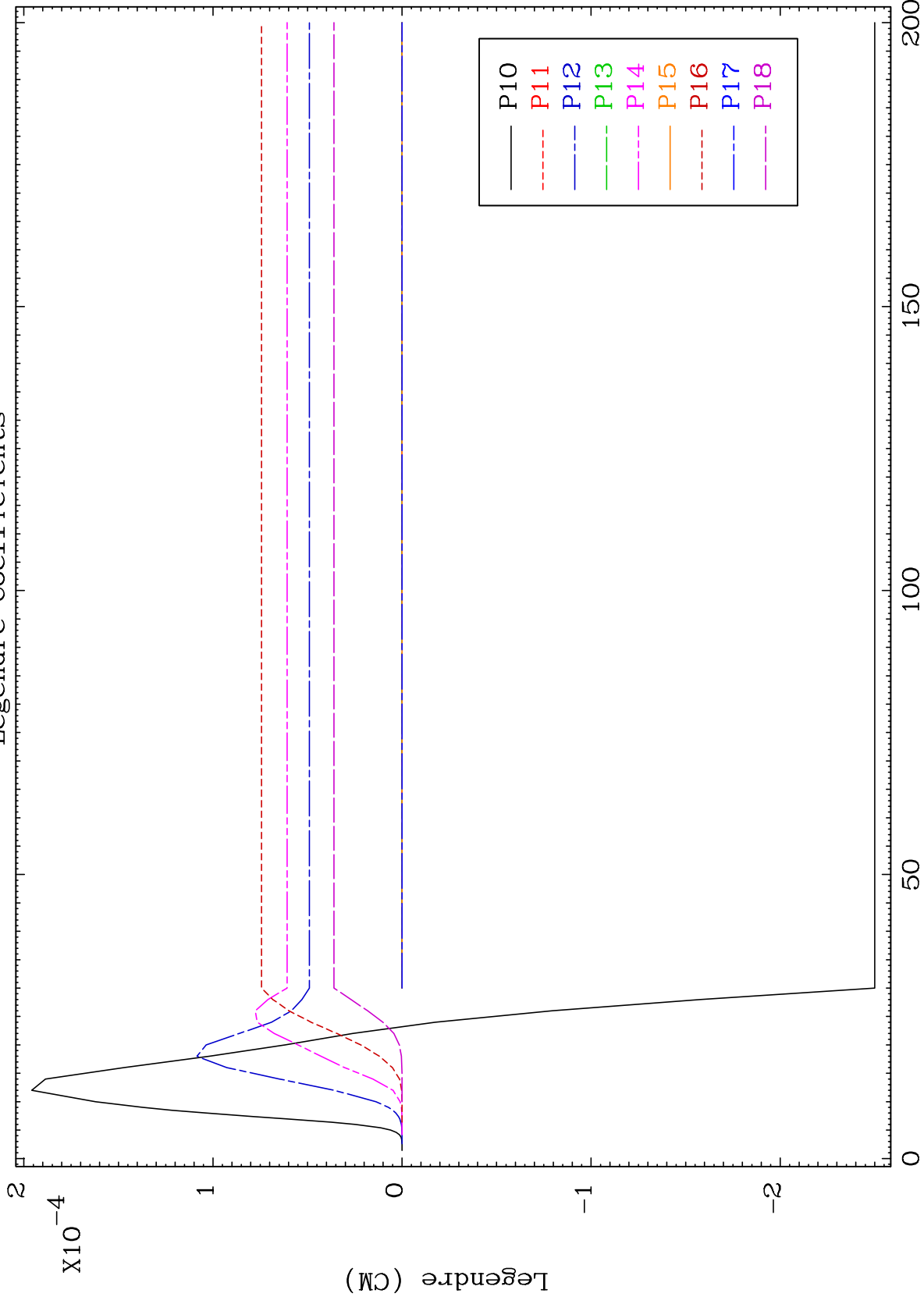
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MAT 6440

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

64-Gd-157



34

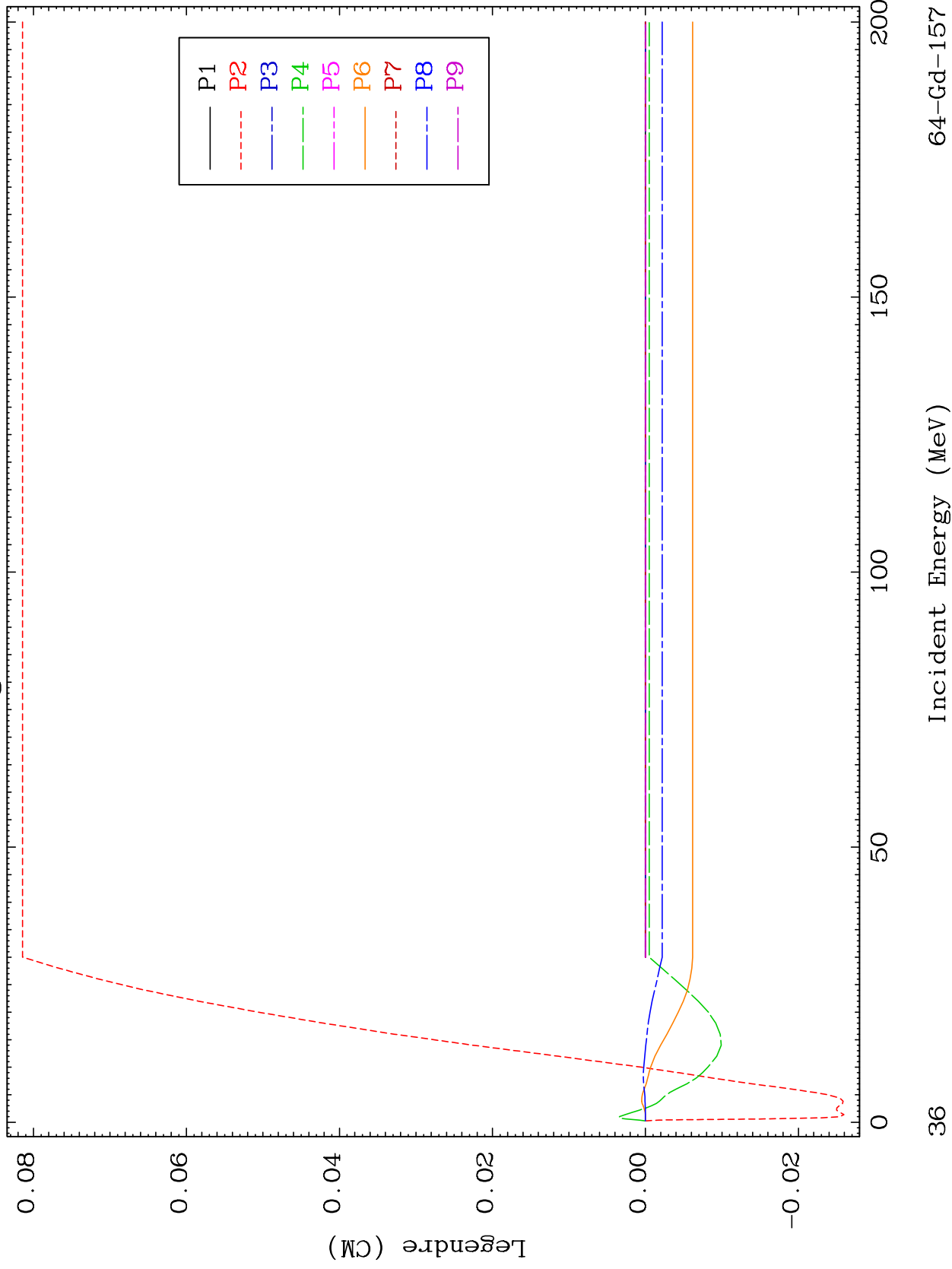
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MAT 6440

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

64-Gd-157



36

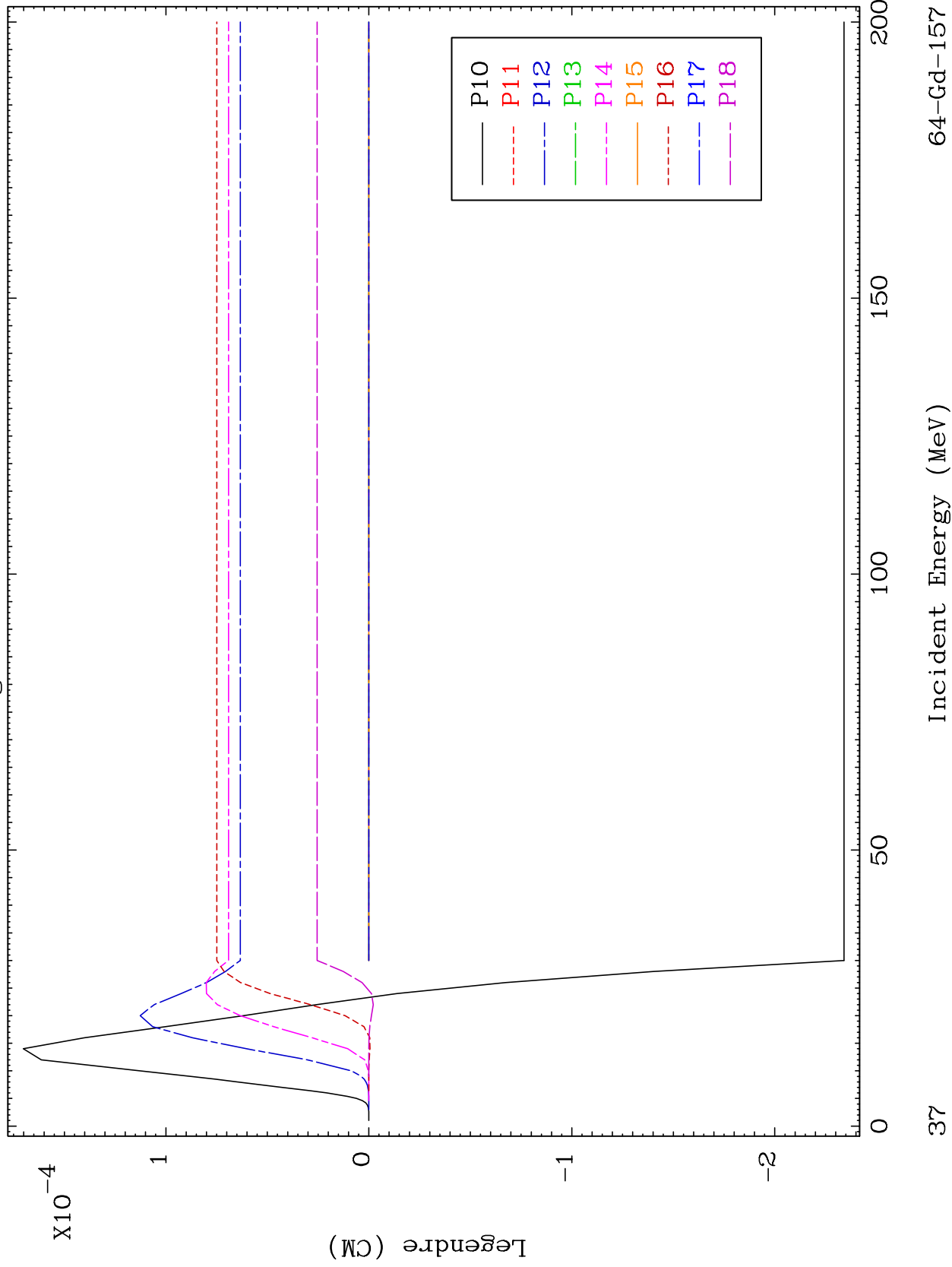
Incident Energy (MeV)

64-Gd-157

MAT 6440

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

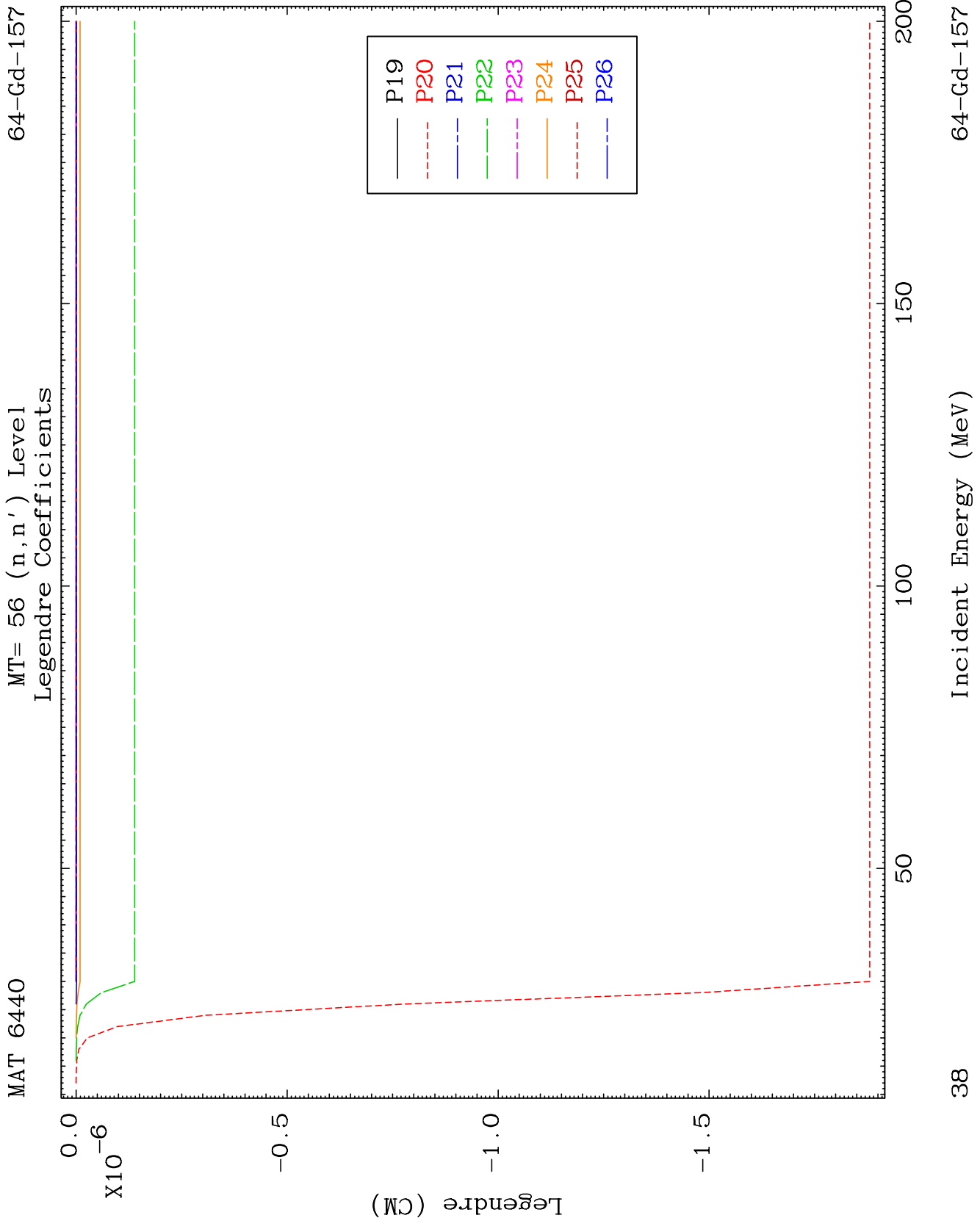
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37

Incident Energy (MeV)

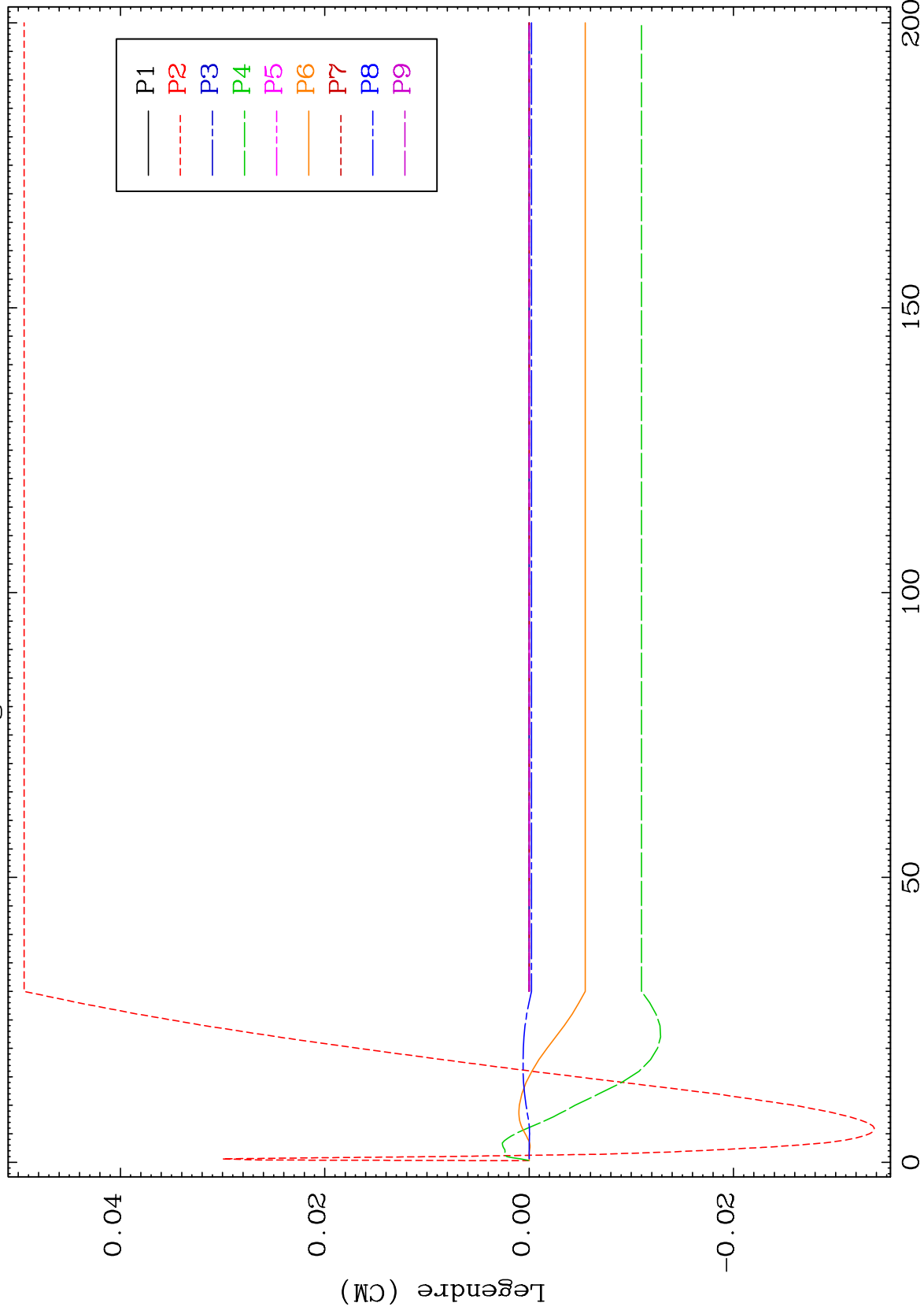
64-Gd-157



MAT 6440

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

64-Gd-157



39

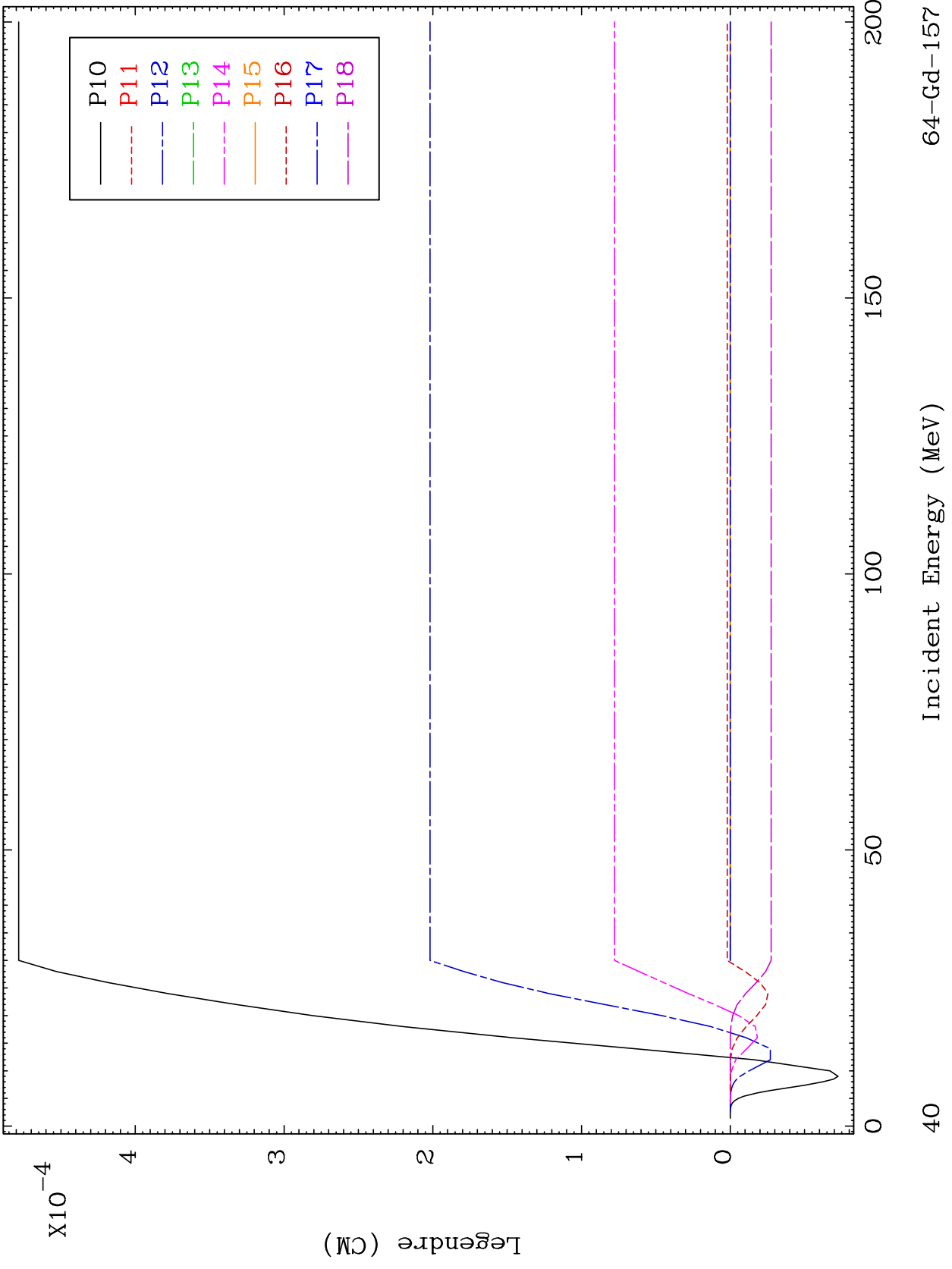
Incident Energy (MeV)

64-Gd-157

MAT 6440

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

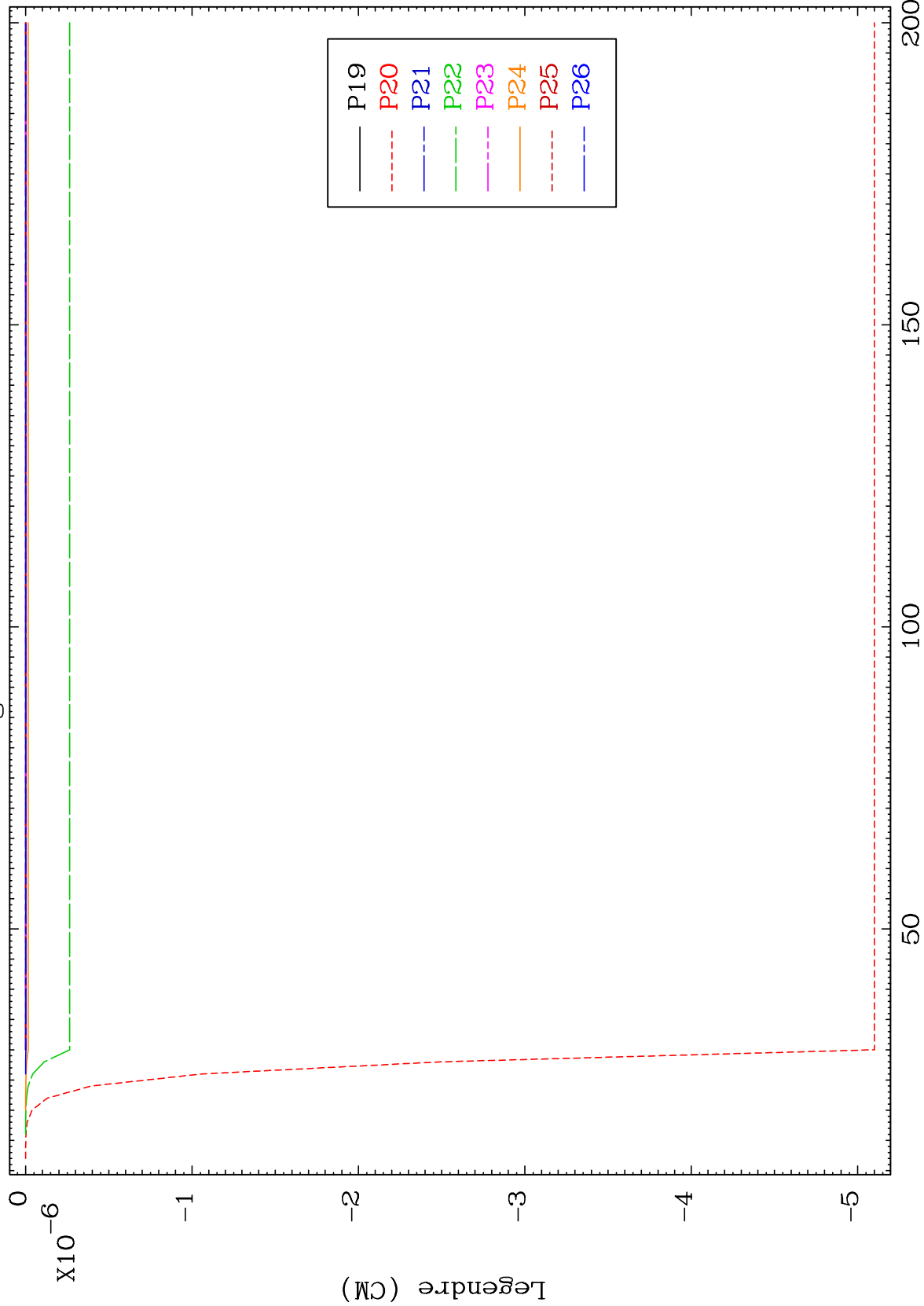
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MAT 6440

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

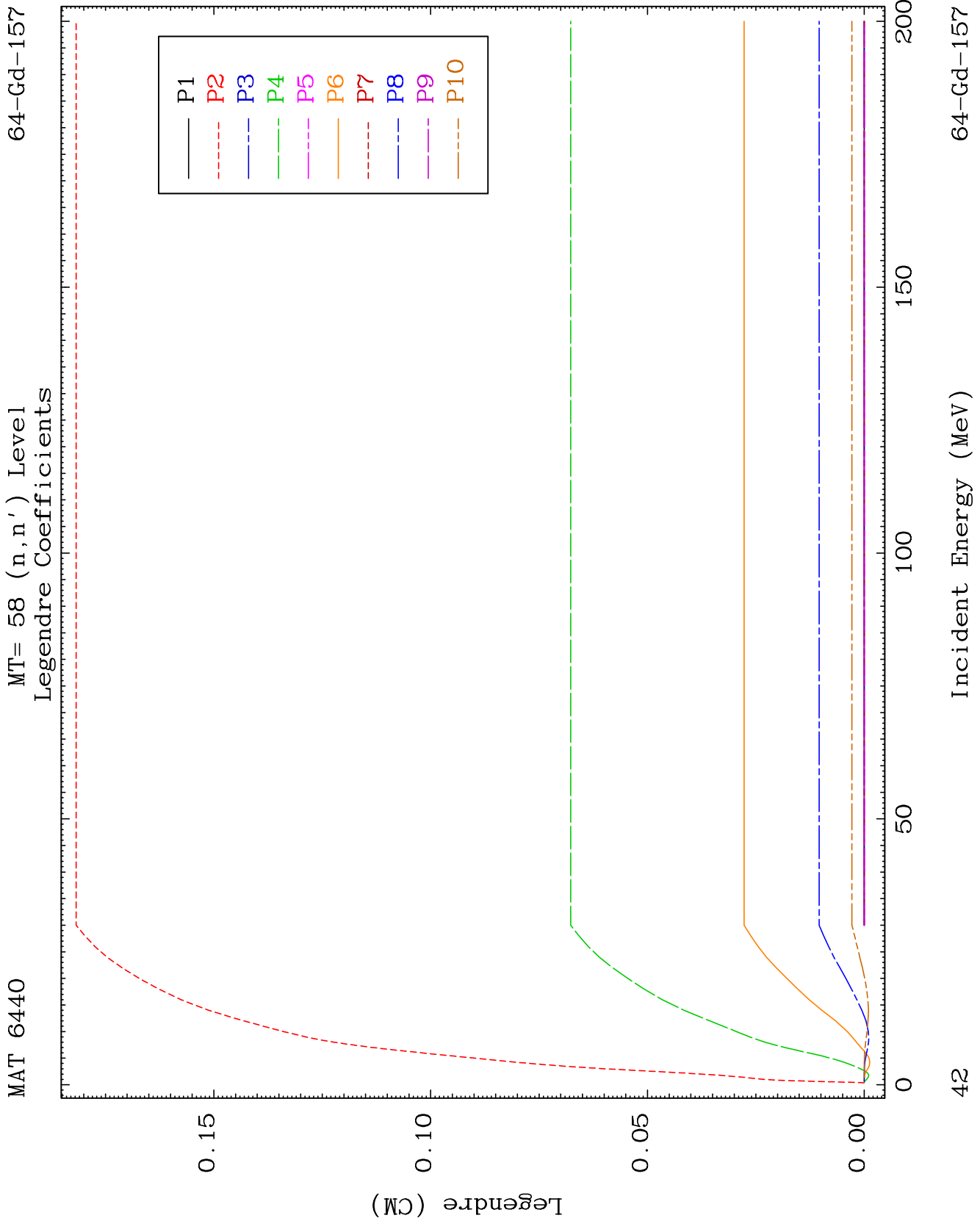
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64-Gd-157

Incident Energy (MeV)

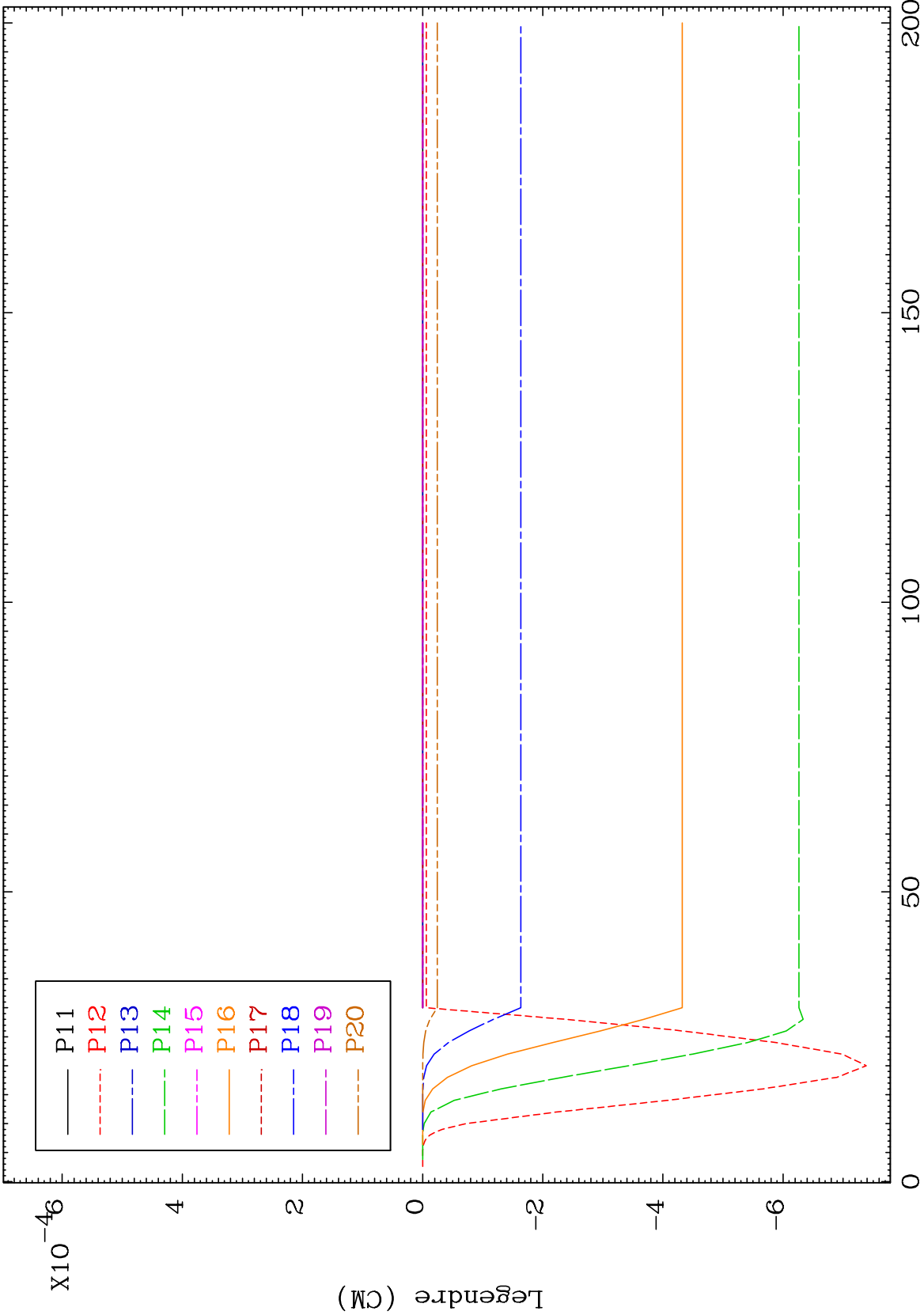
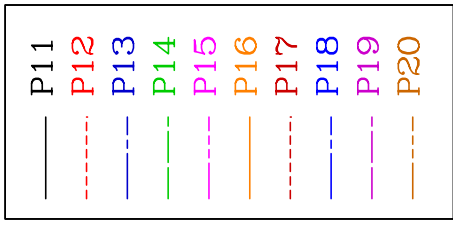
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MAT 6440

MT= 58 (n,n') Level  
Legendre Coefficients

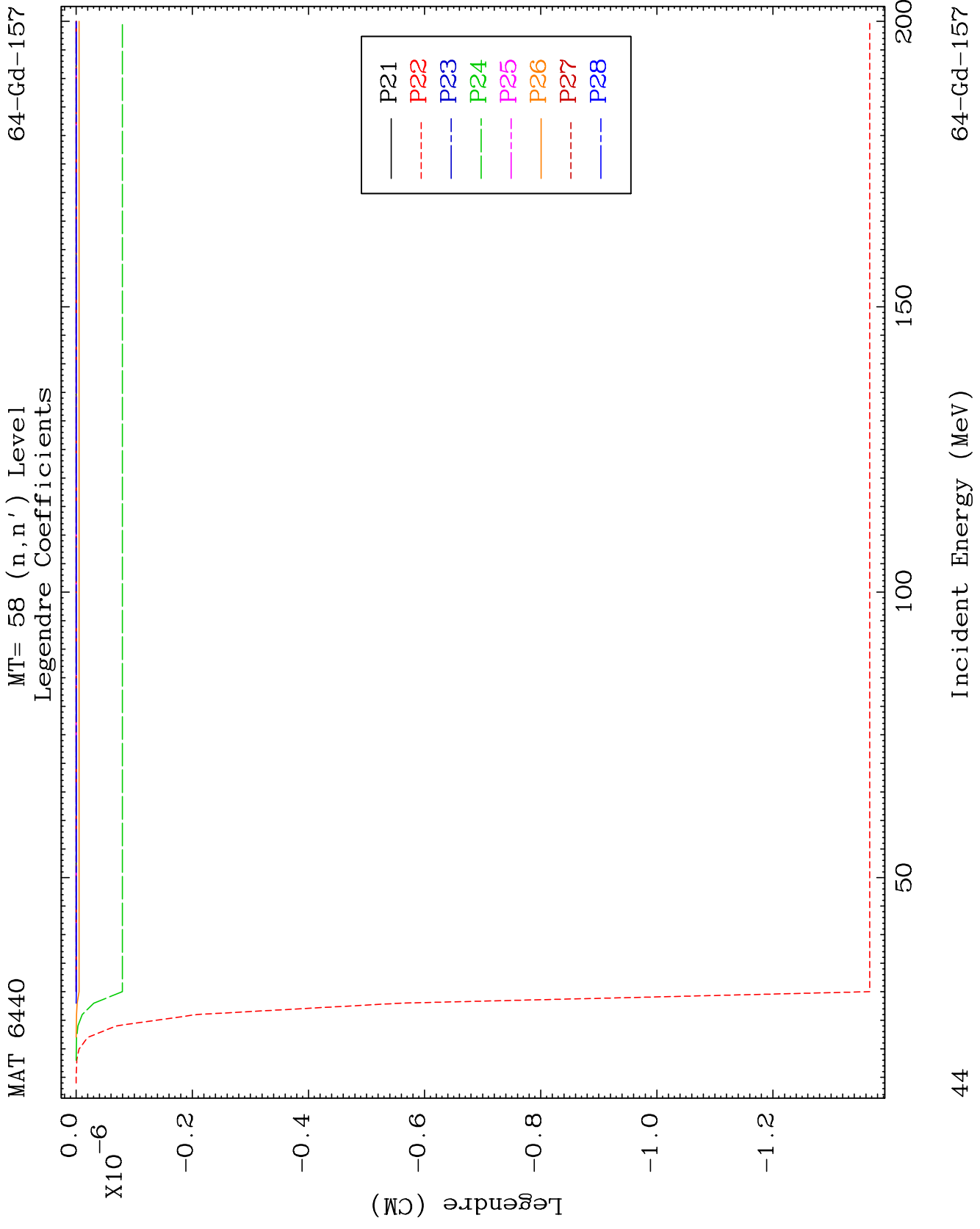
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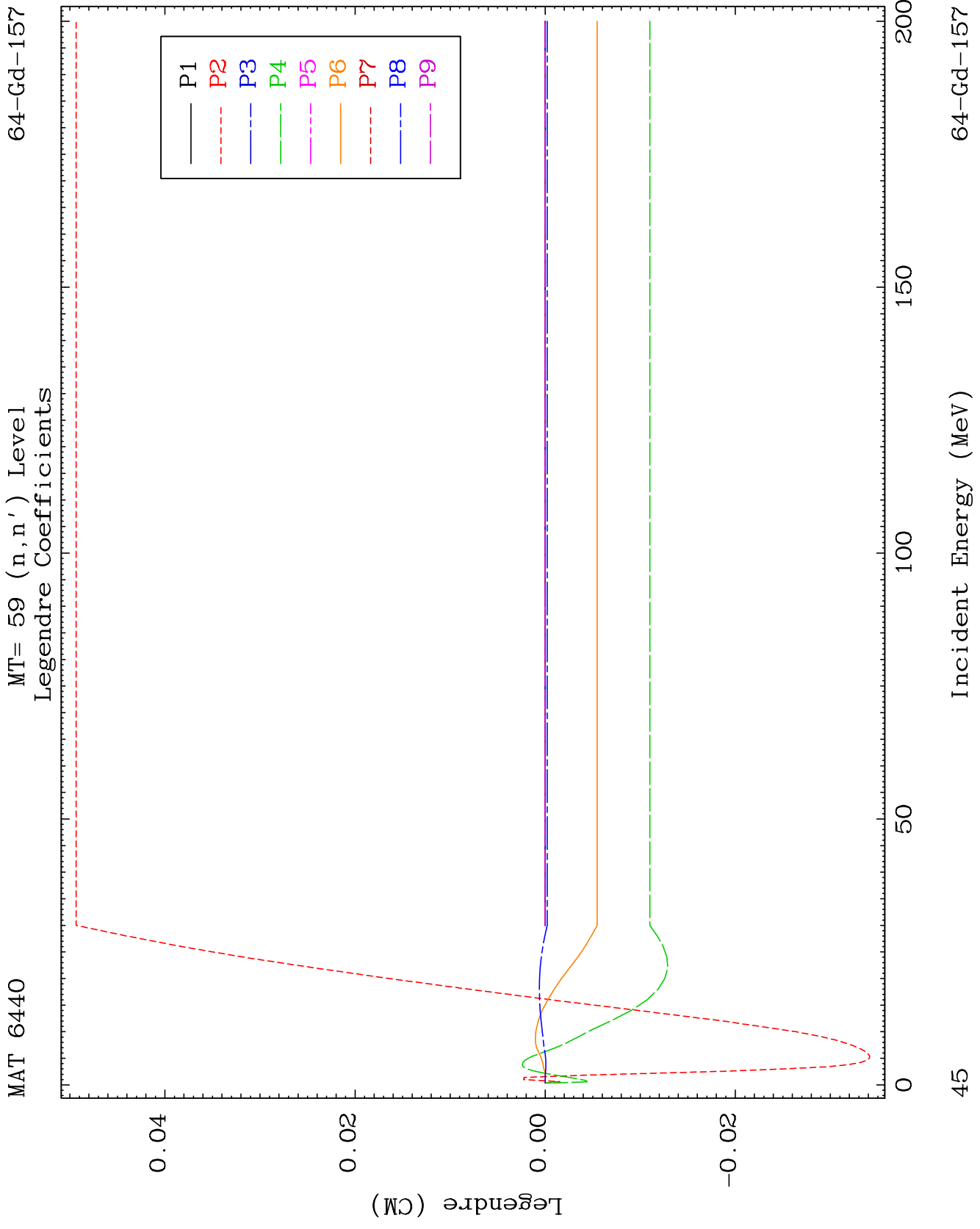


43

Incident Energy (MeV)

64-Gd-157

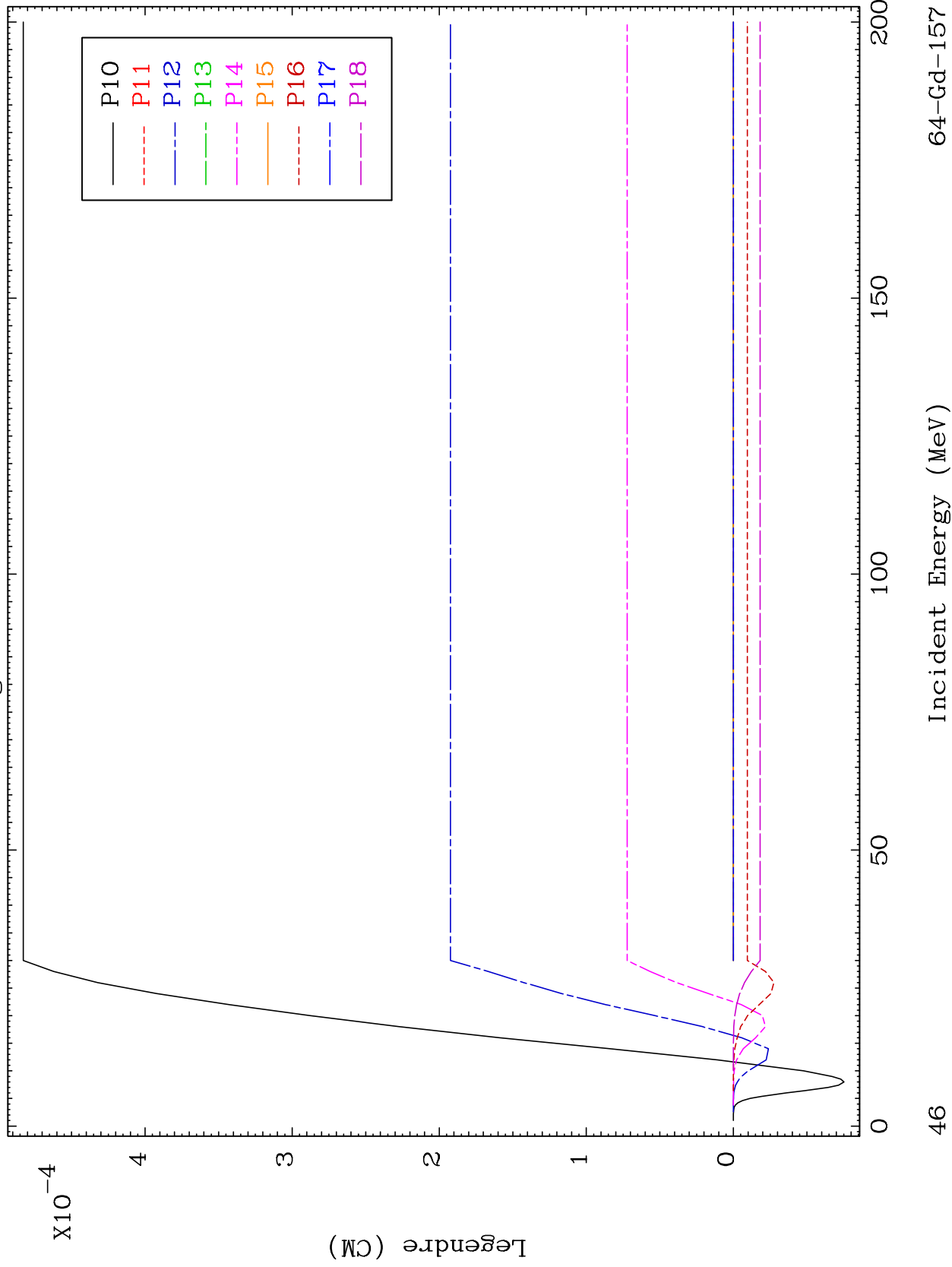




MAT 6440

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

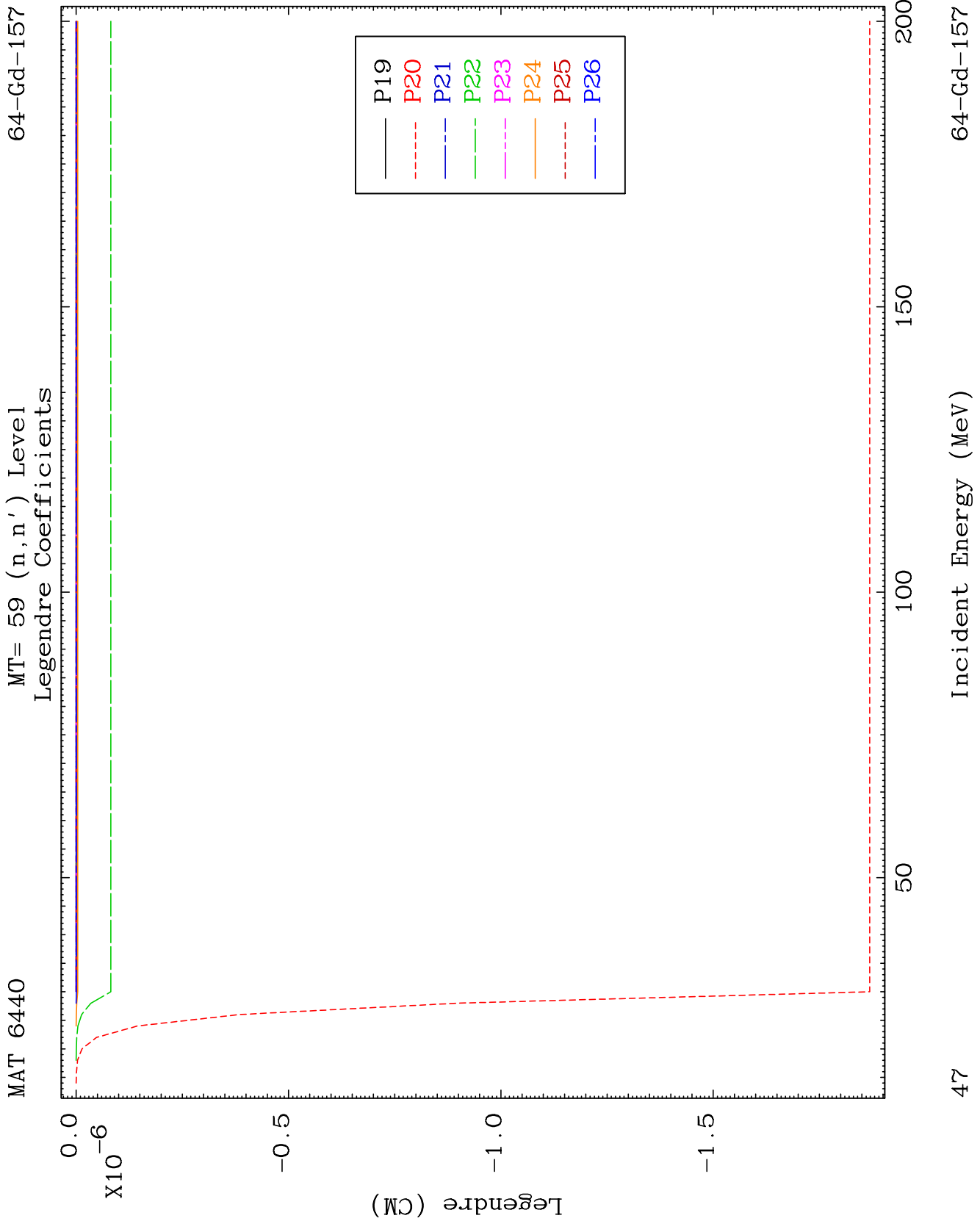
64-Gd-157



64-Gd-157

Incident Energy (MeV)

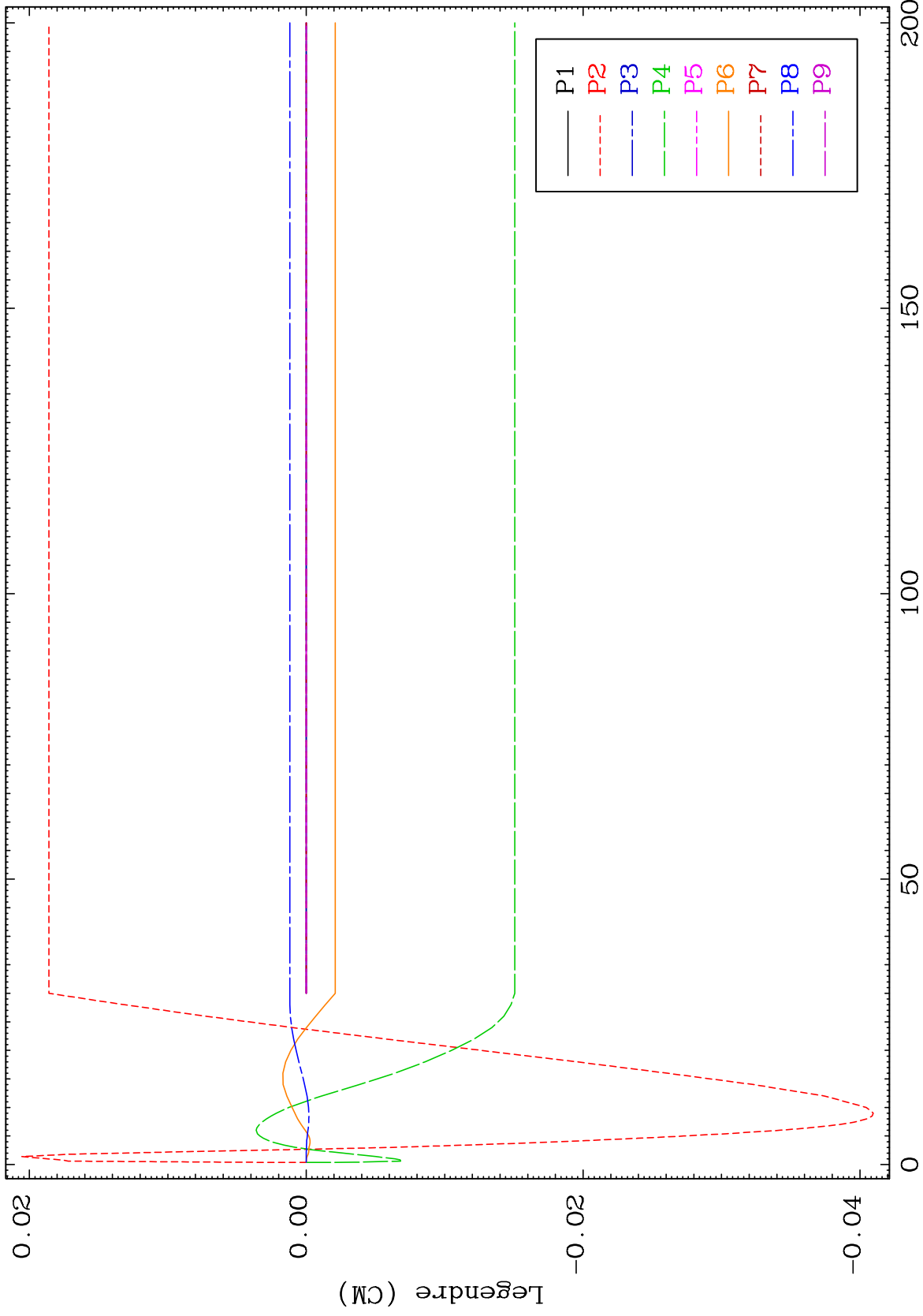
46



MAT 6440

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

64-Gd-157



48

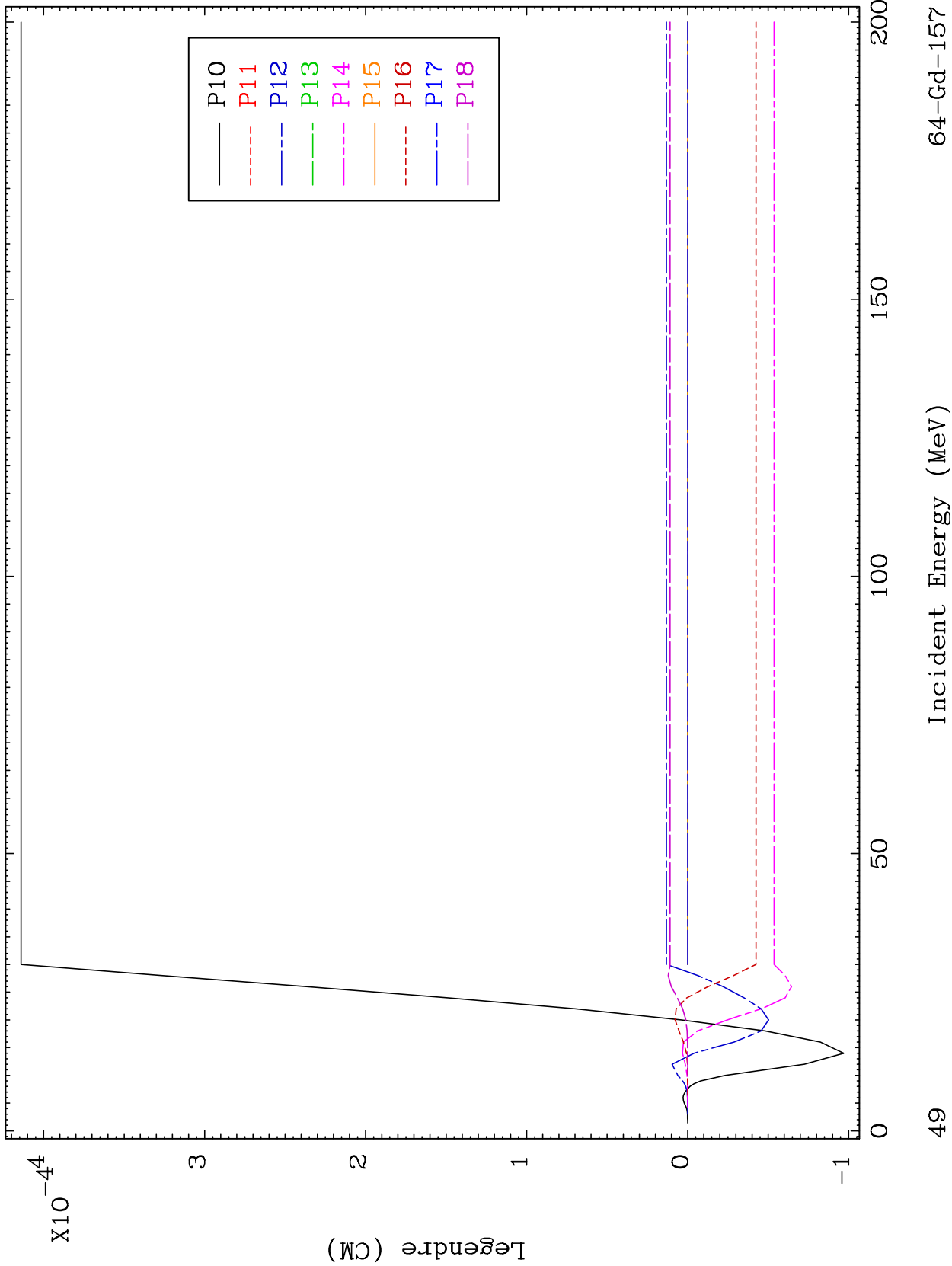
Incident Energy (MeV)

64-Gd-157

MAT 6440

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

64-Gd-157



49

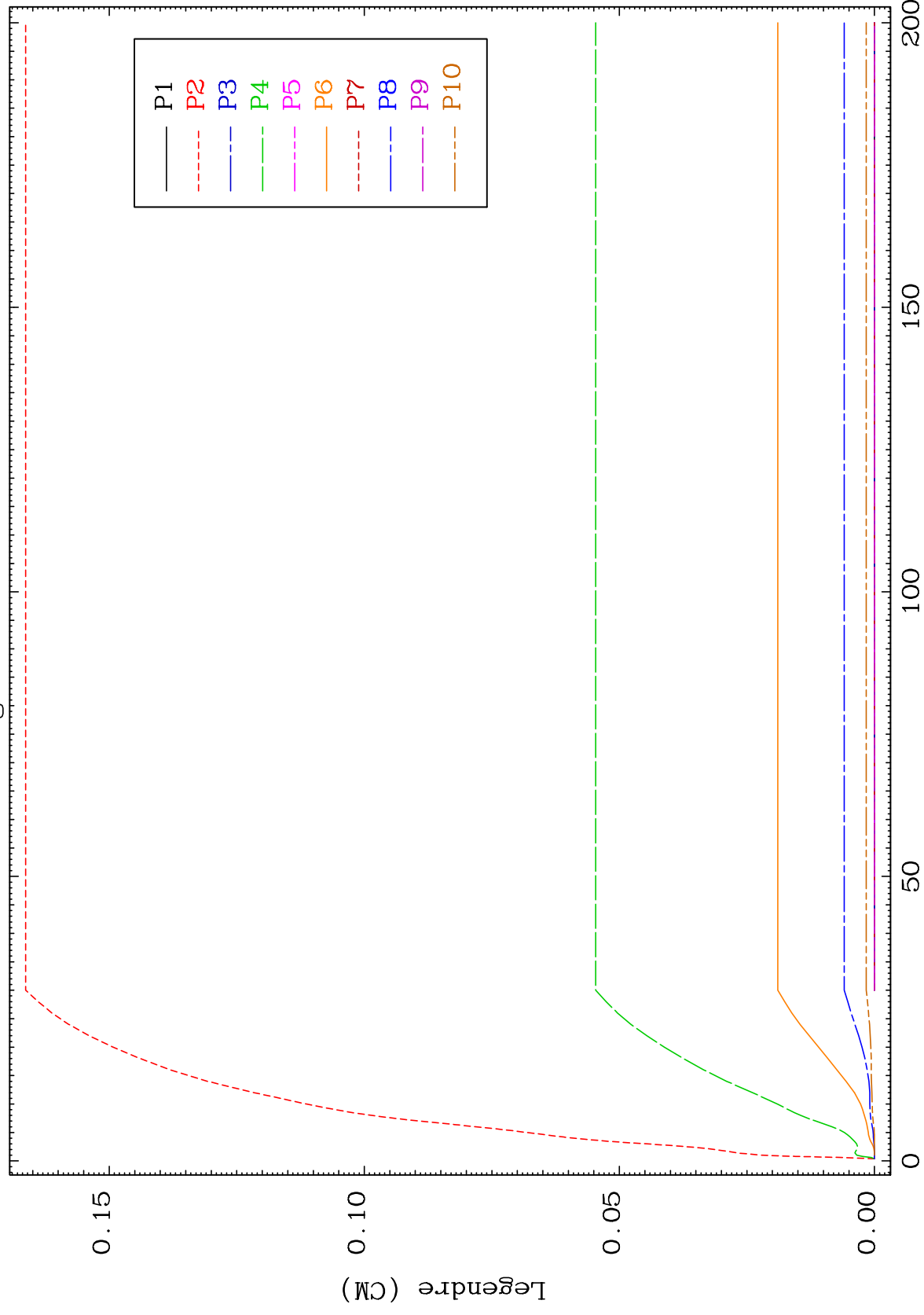
64-Gd-157



MAT 6440

MT= 61 (n,n') Level  
Legendre Coefficients

64-Gd-157



51

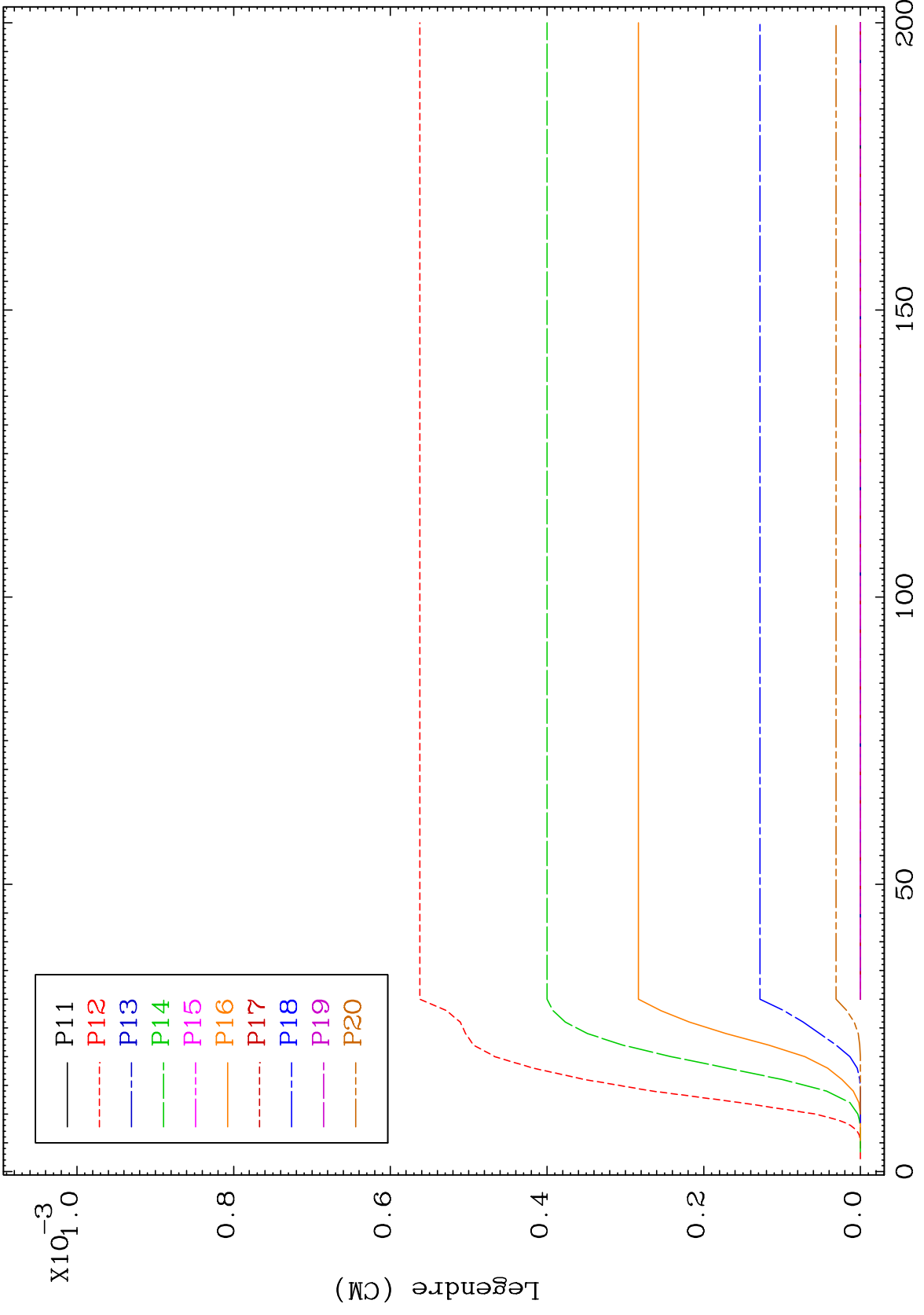
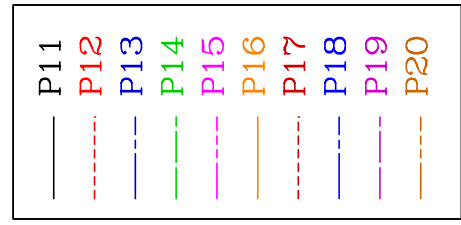
Incident Energy (MeV)

64-Gd-157

MAT 6440

MT= 61 (n,n') Level  
Legendre Coefficients

64-Gd-157



52

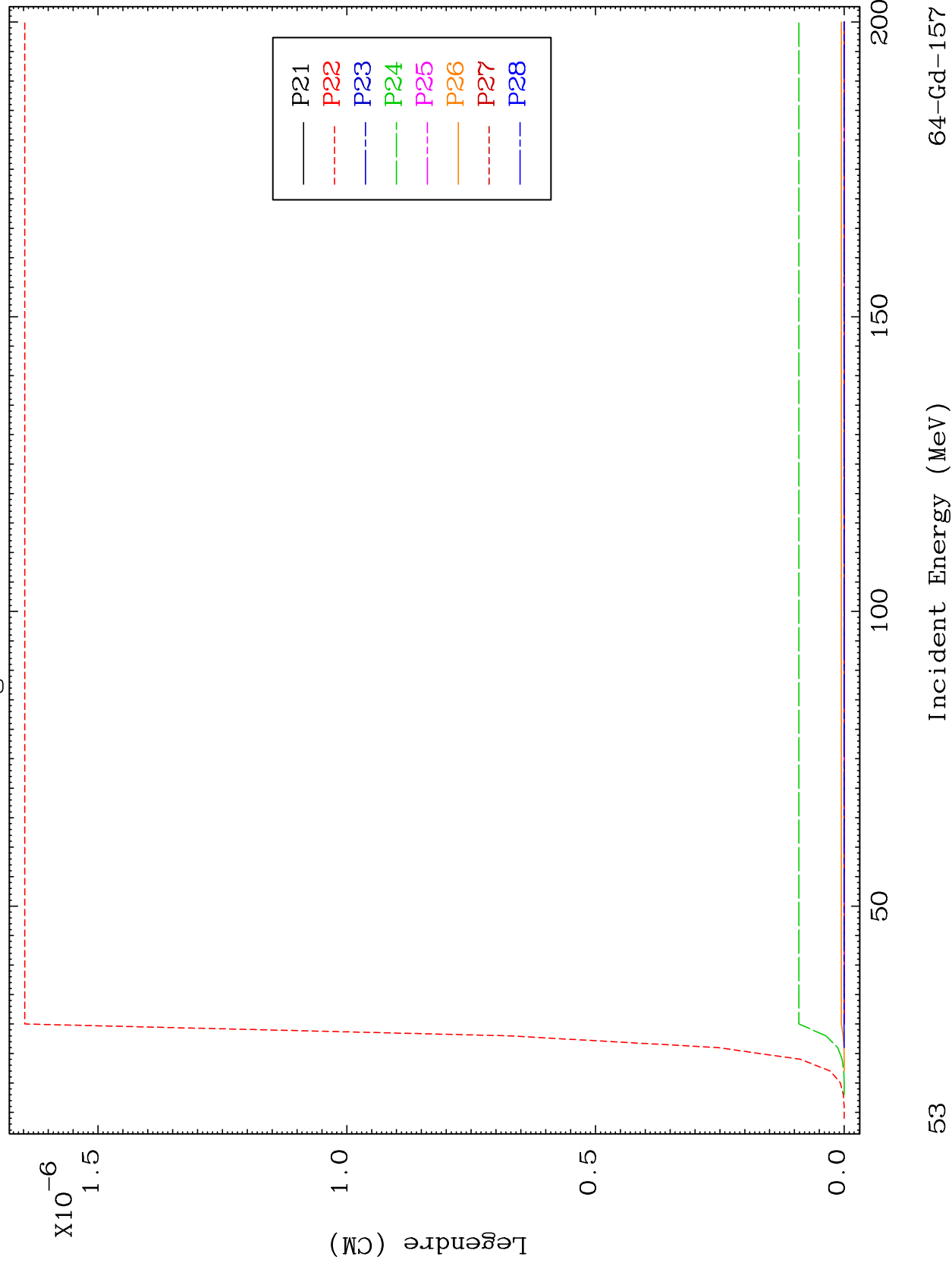
Incident Energy (MeV)

64-Gd-157

MAT 6440

MT= 61 (n,n') Level  
Legendre Coefficients

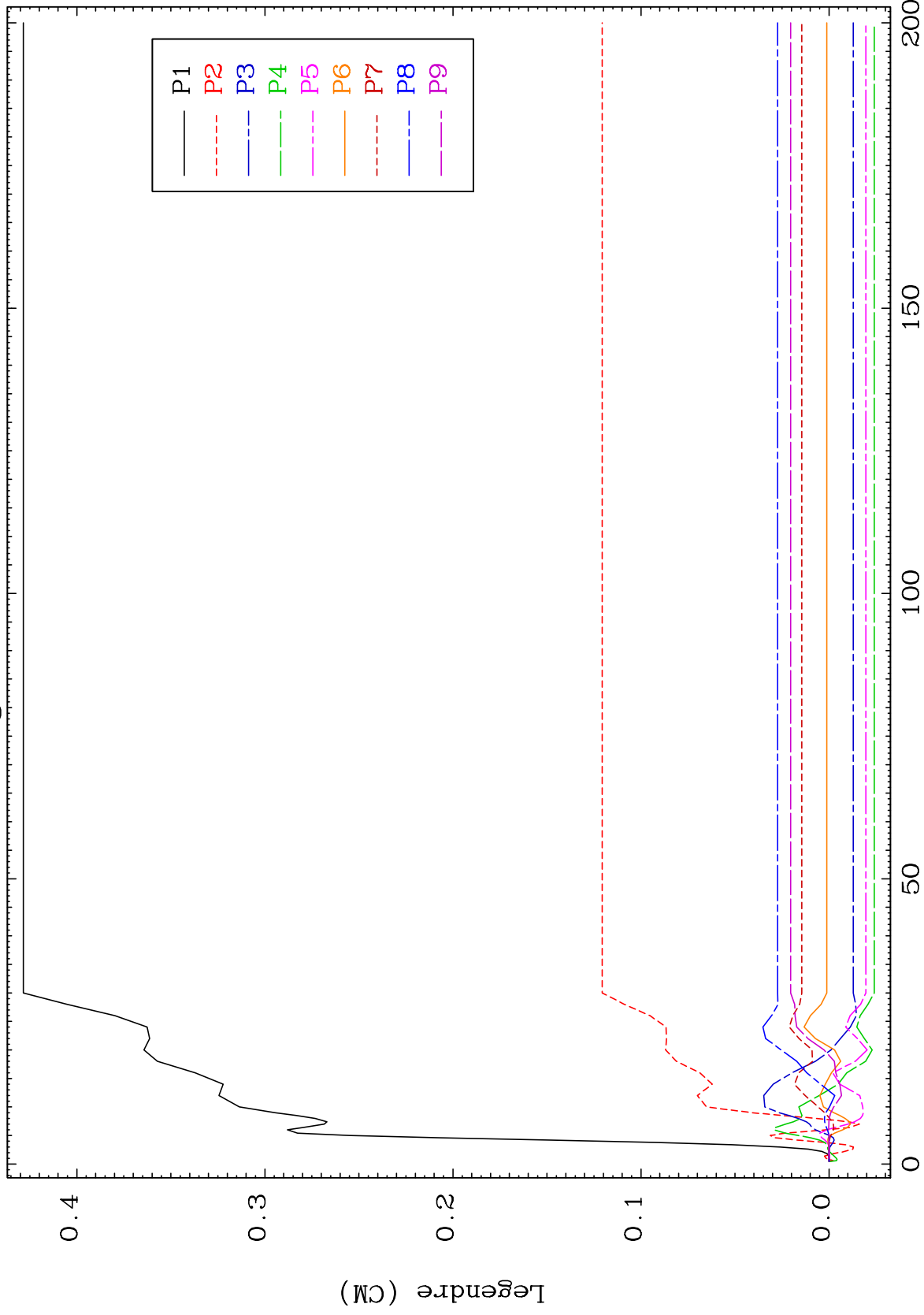
64-Gd-157



MAT 6440

MT= 62 (n,n') Level  
Legendre Coefficients

64-Gd-157



64-Gd-157

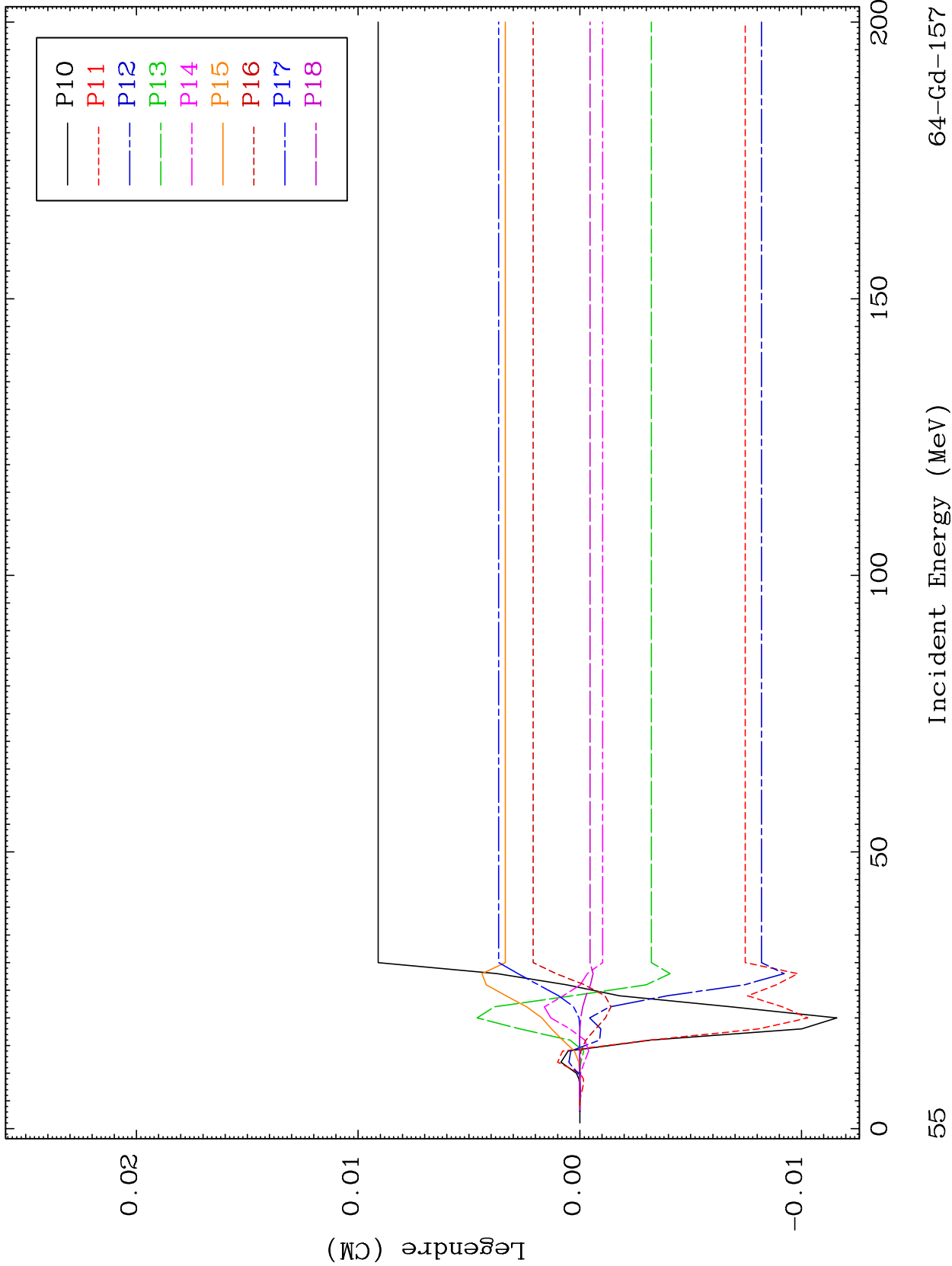
Incident Energy (MeV)

54

MAT 6440

MT= 62 (n,n') Level  
Legendre Coefficients

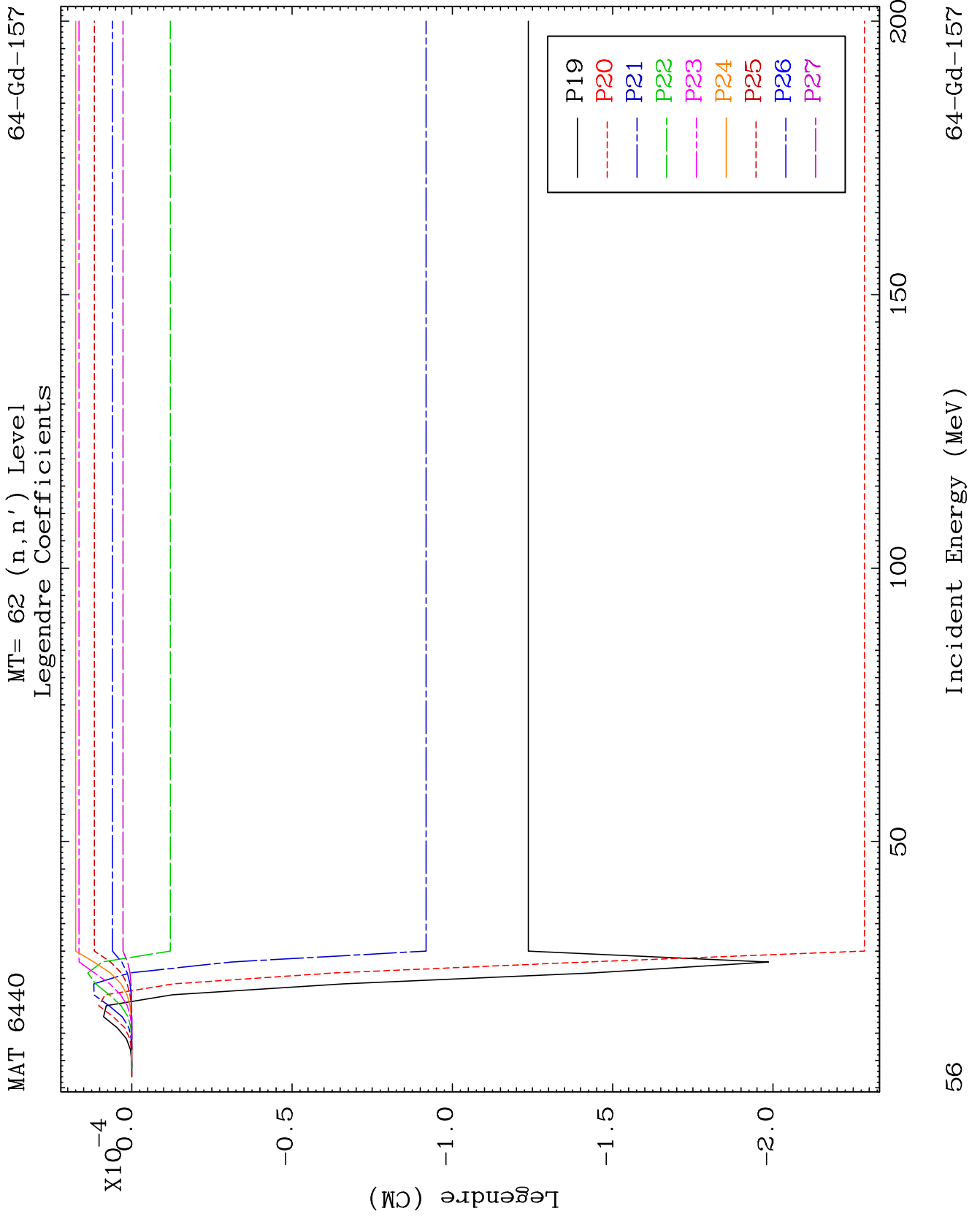
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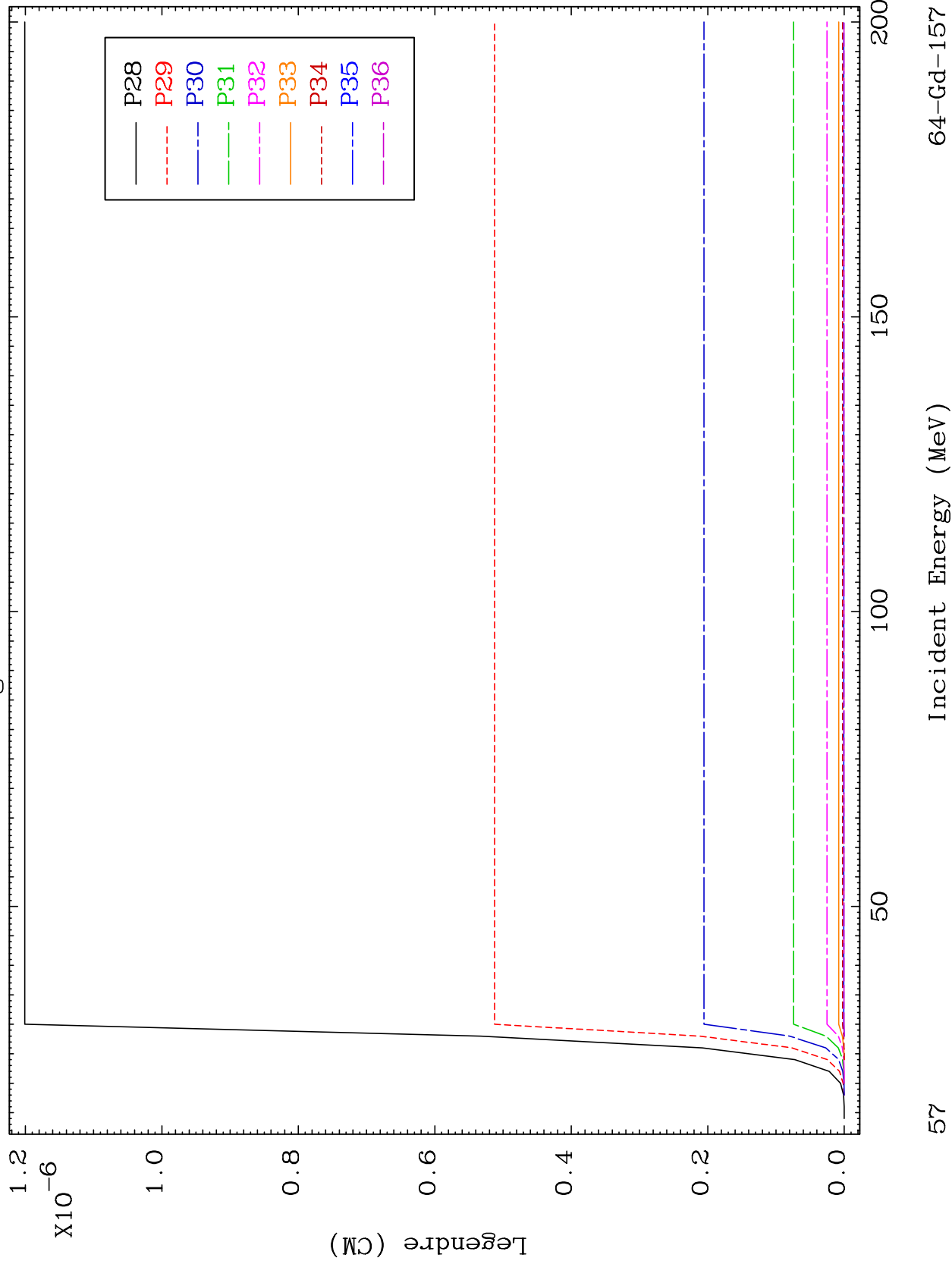


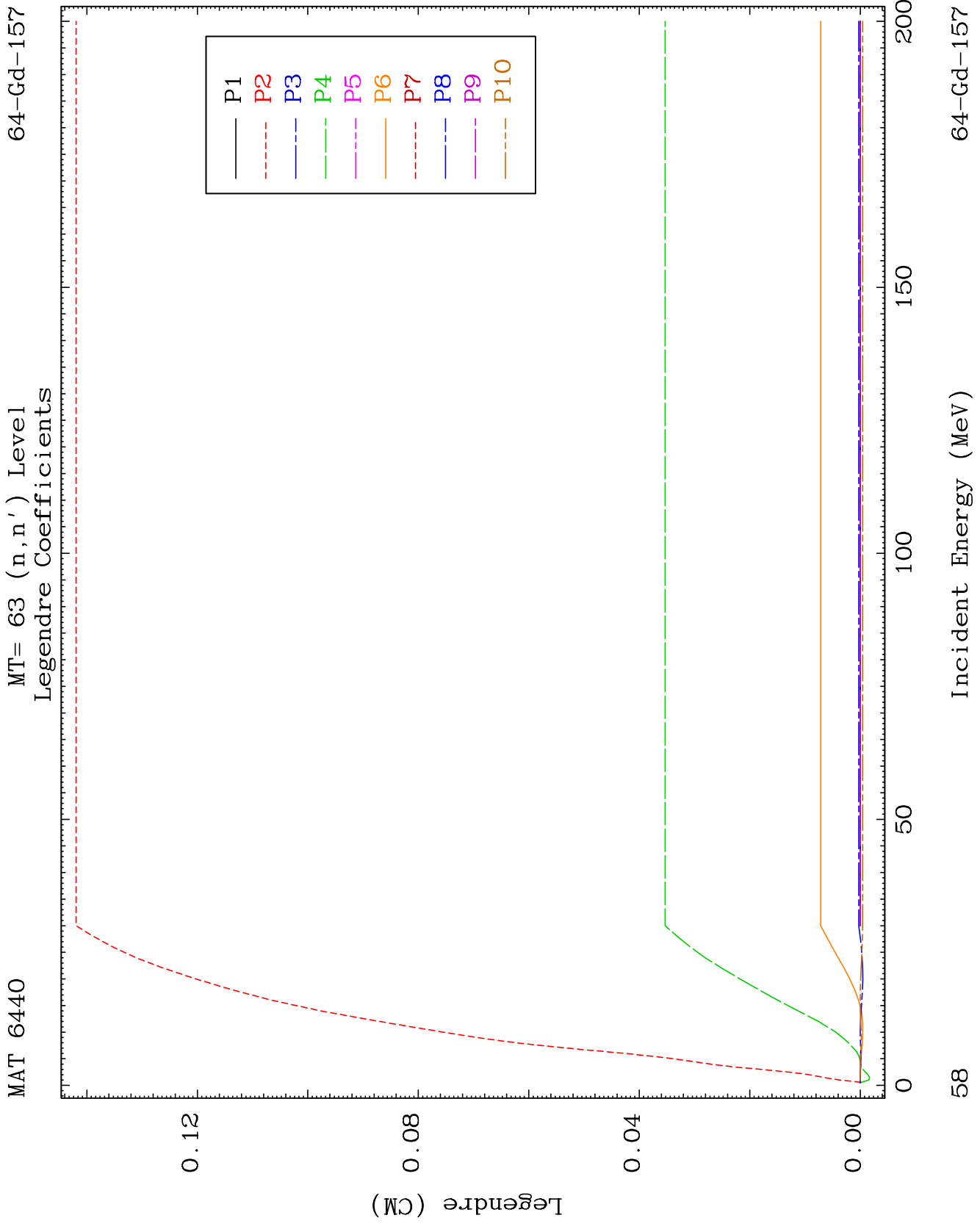
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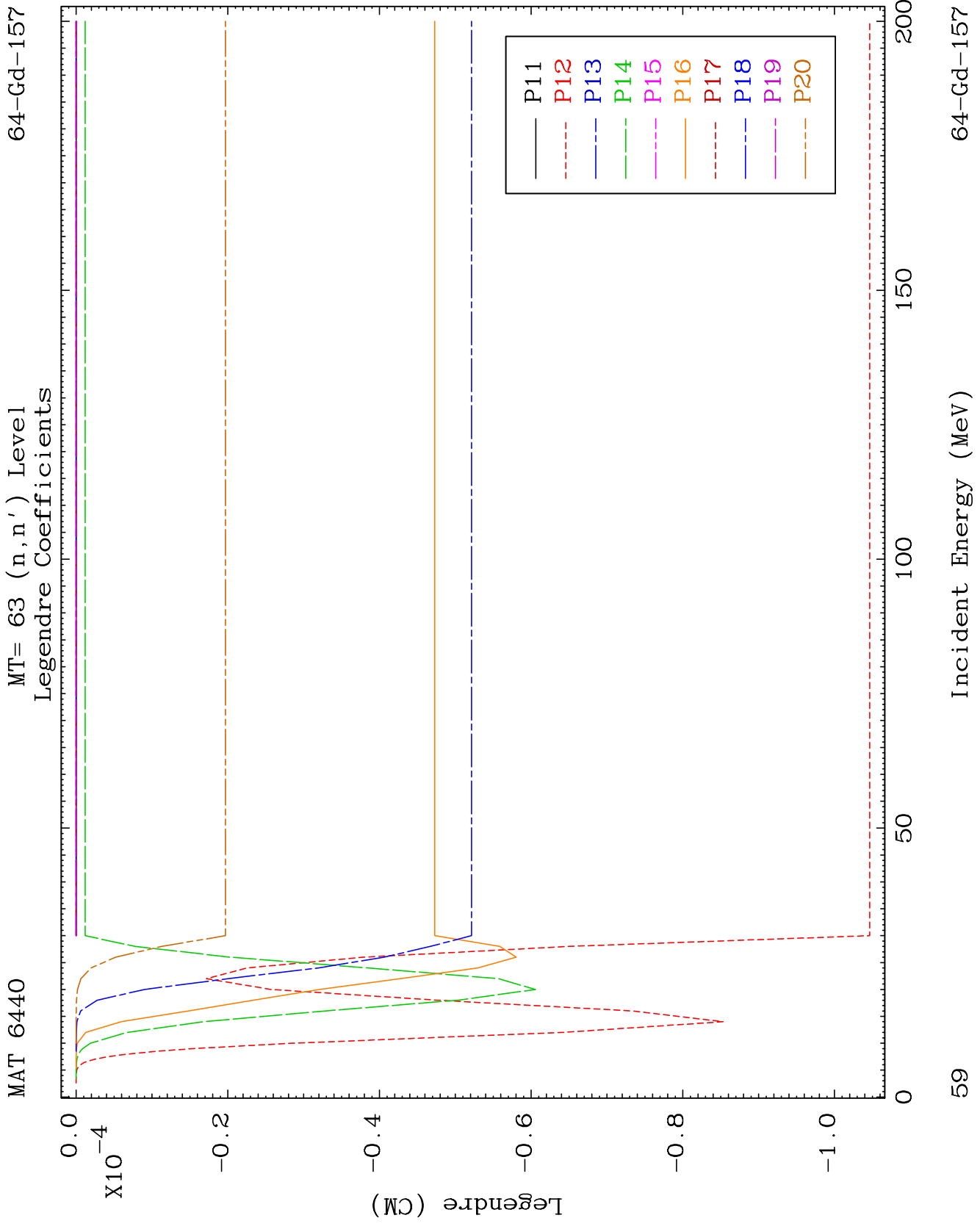
Incident Energy (MeV)

55









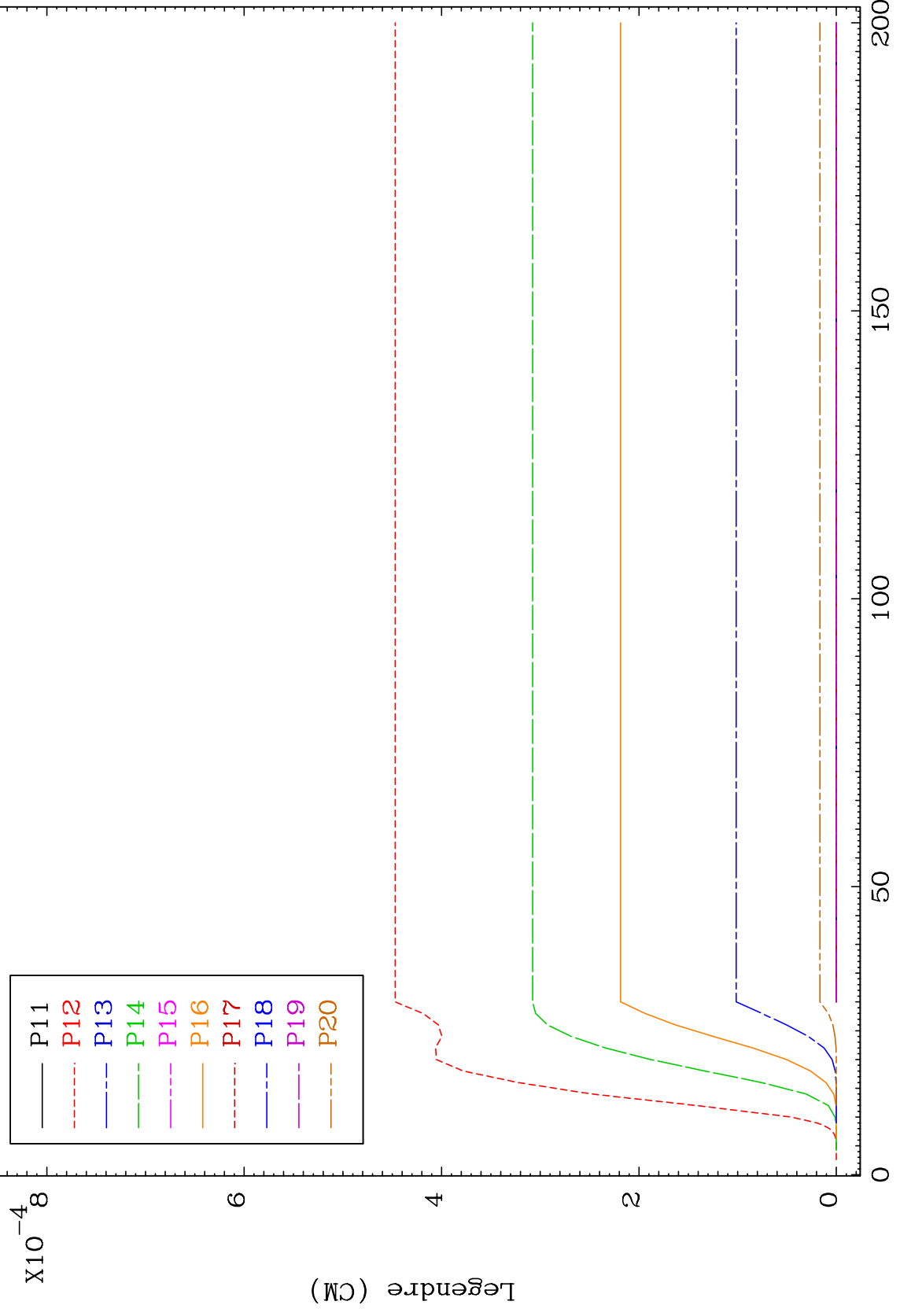
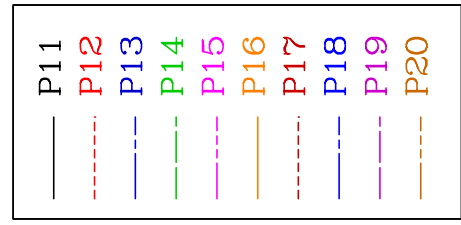




MAT 6440

MT= 64 (n,n') Level  
Legendre Coefficients

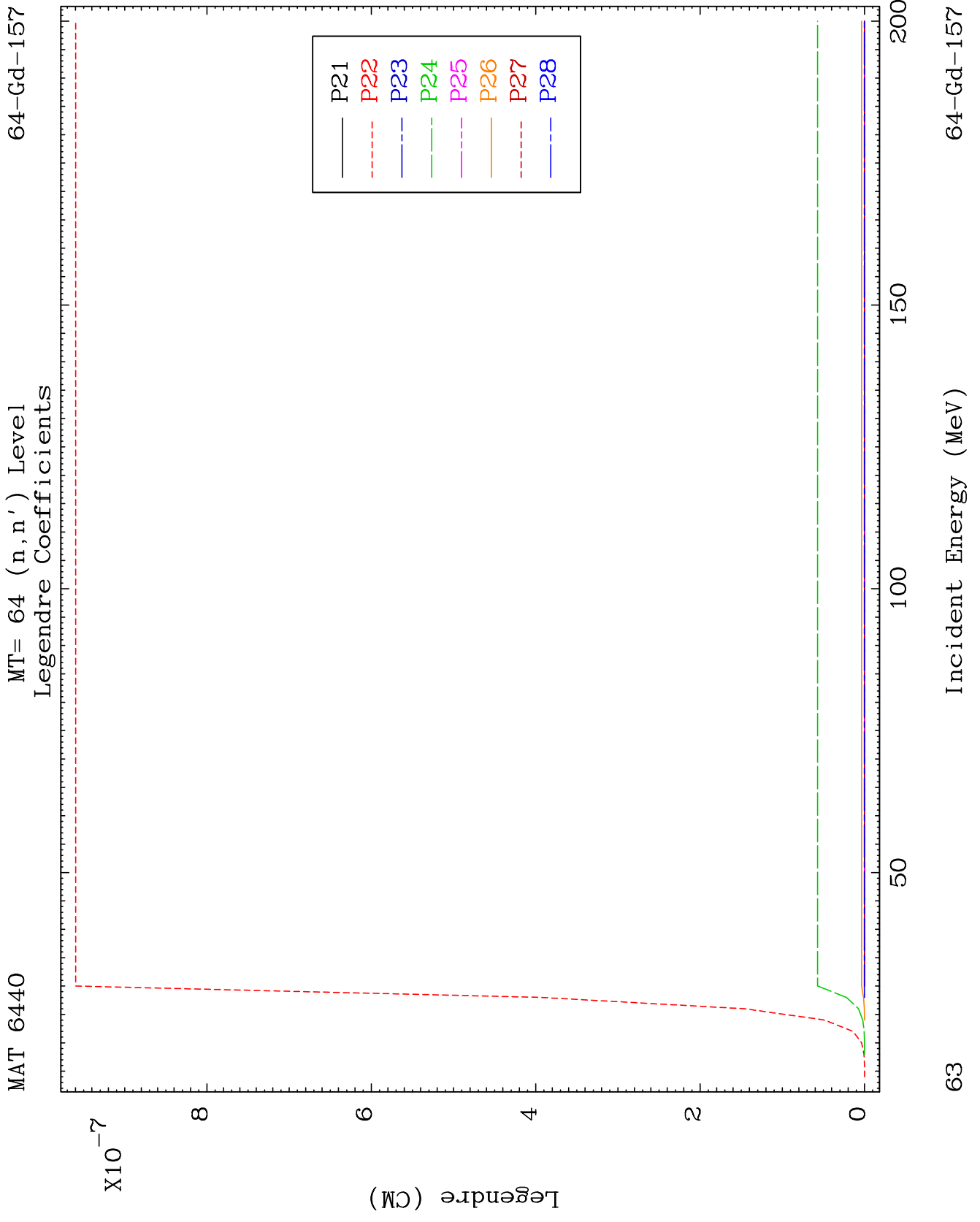
64-Gd-157



62

Incident Energy (MeV)

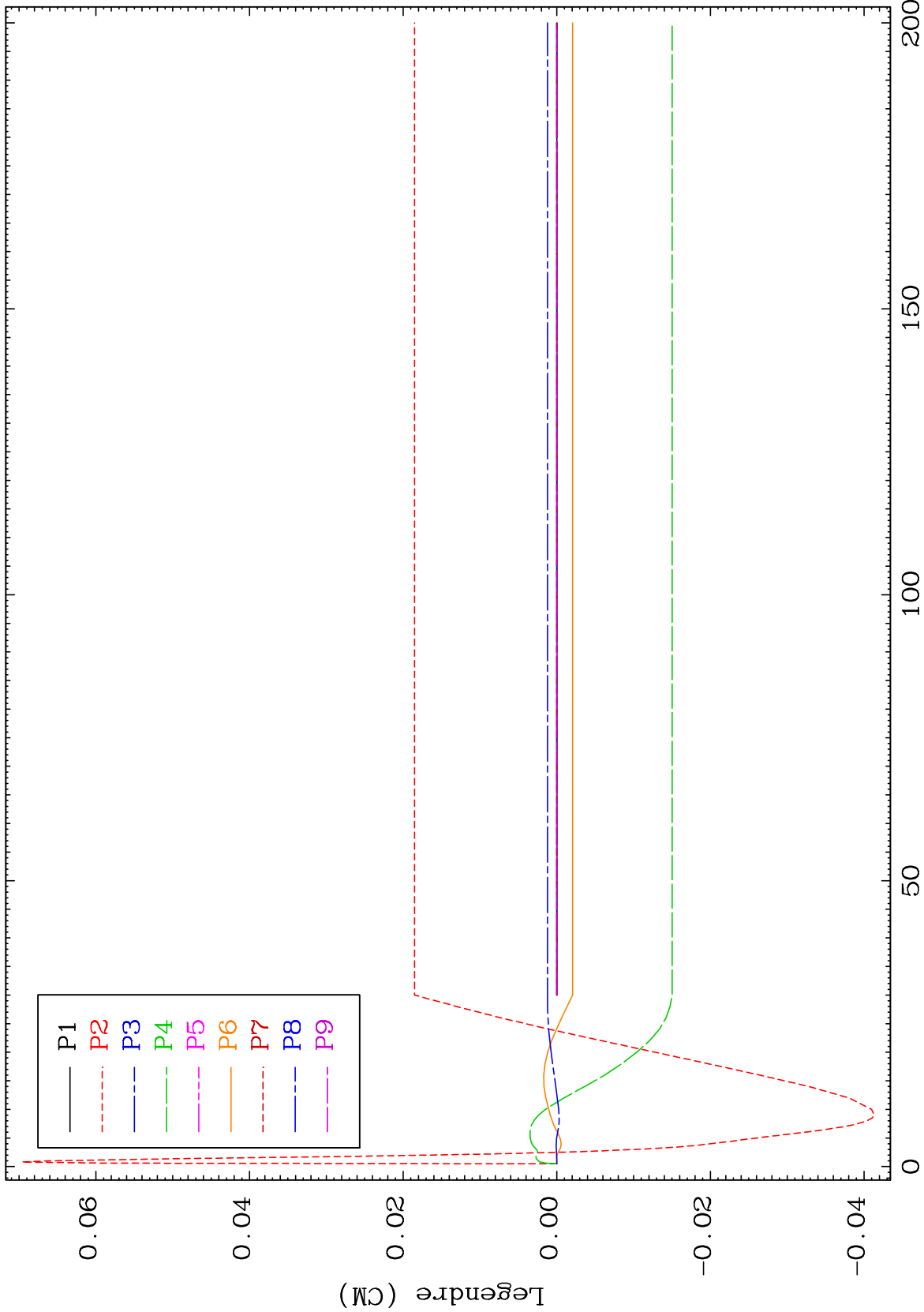
64-Gd-157



MAT 6440

MT= 65 (n,n') Level  
Legendre Coefficients

64-Gd-157



64

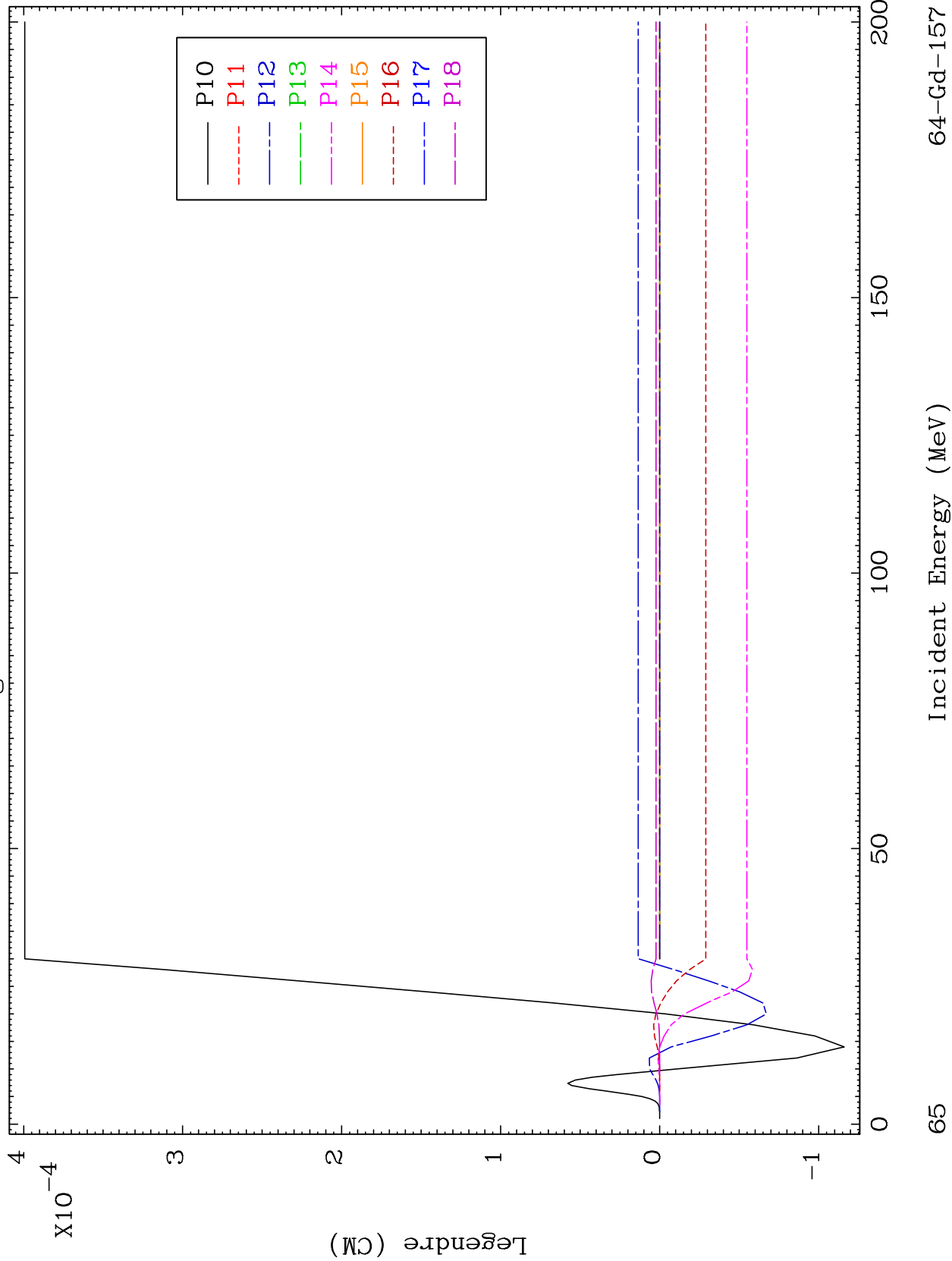
Incident Energy (MeV)

64-Gd-157

MAT 6440

MT= 65 (n,n') Level  
Legendre Coefficients

64-Gd-157

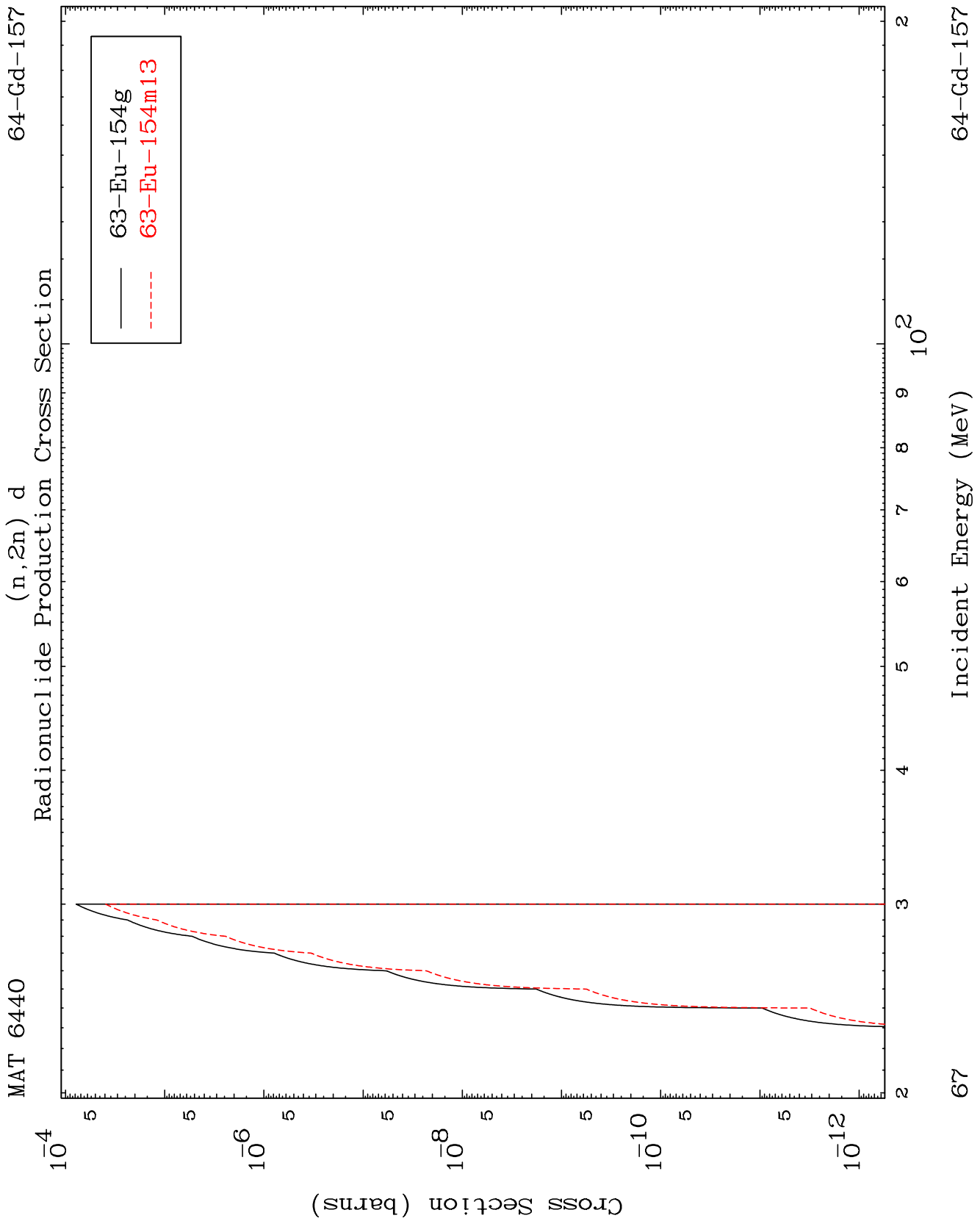


64-Gd-157

Incident Energy (MeV)

65



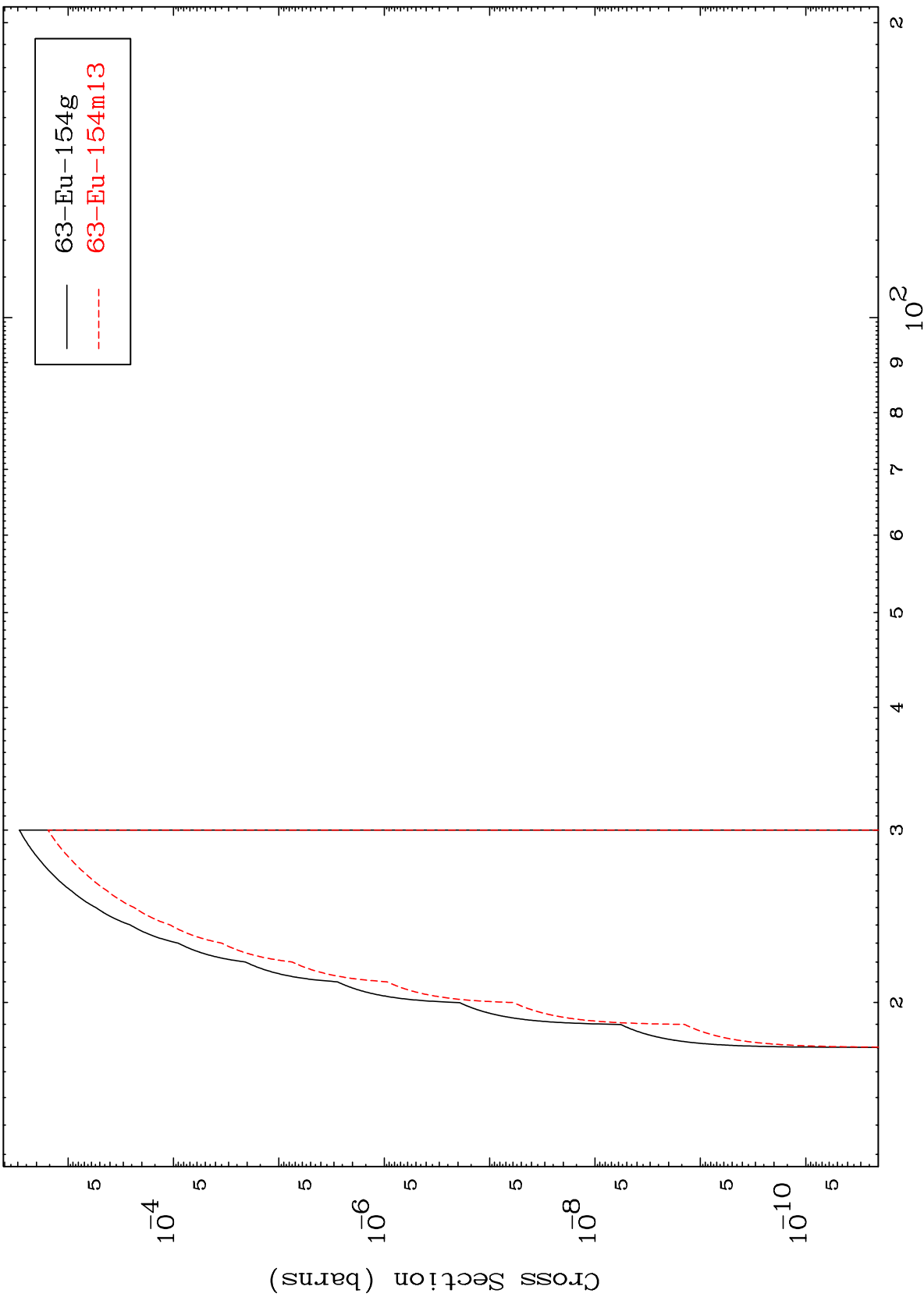


MAT 6440

(n,n') t

64-Gd-157

Radionuclide Production Cross Section



68

Incident Energy (MeV)

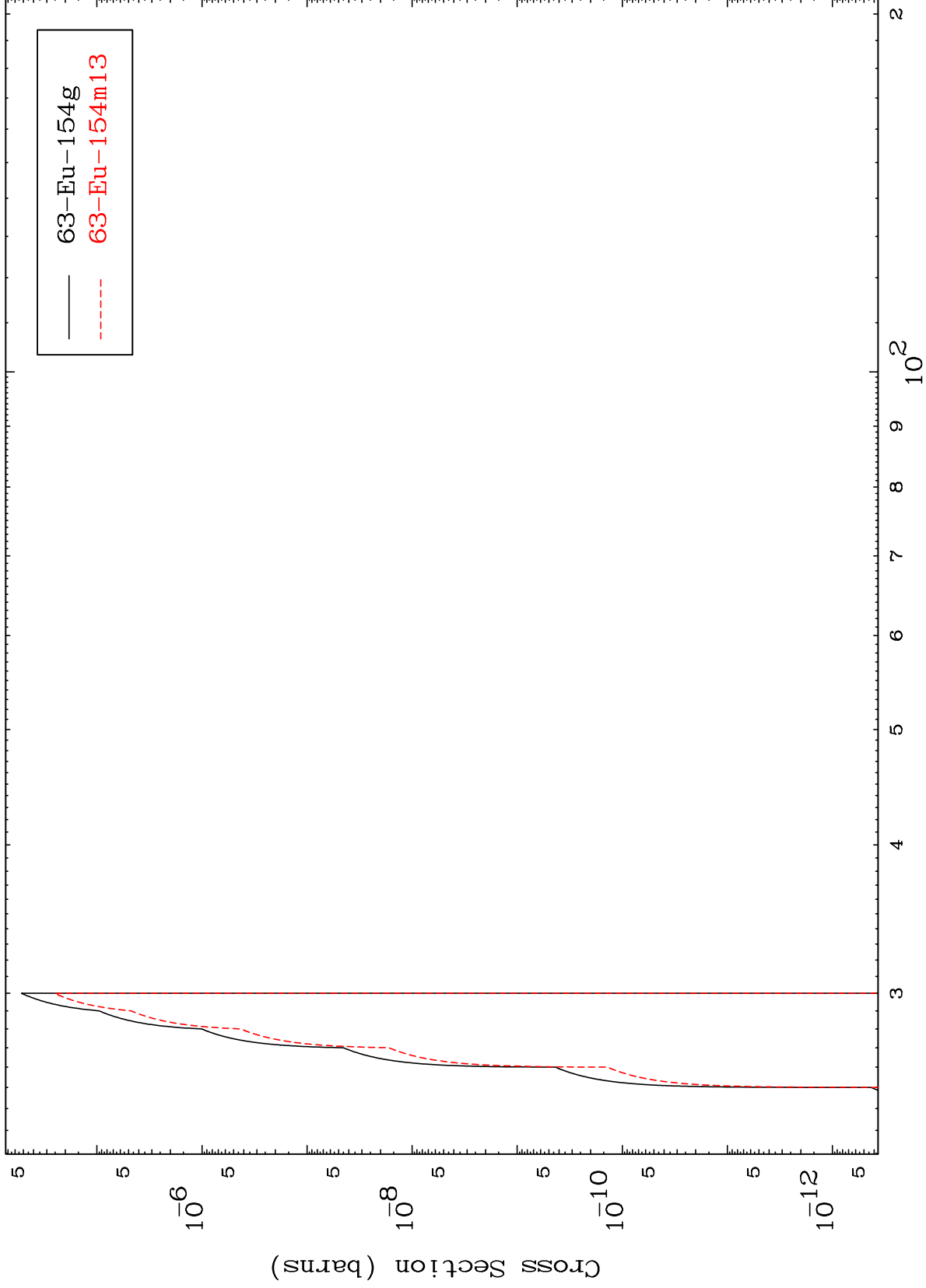
64-Gd-157

MAT 6440

(n,3n) p

64-Gd-157

Radionuclide Production Cross Section



69

Incident Energy (MeV)

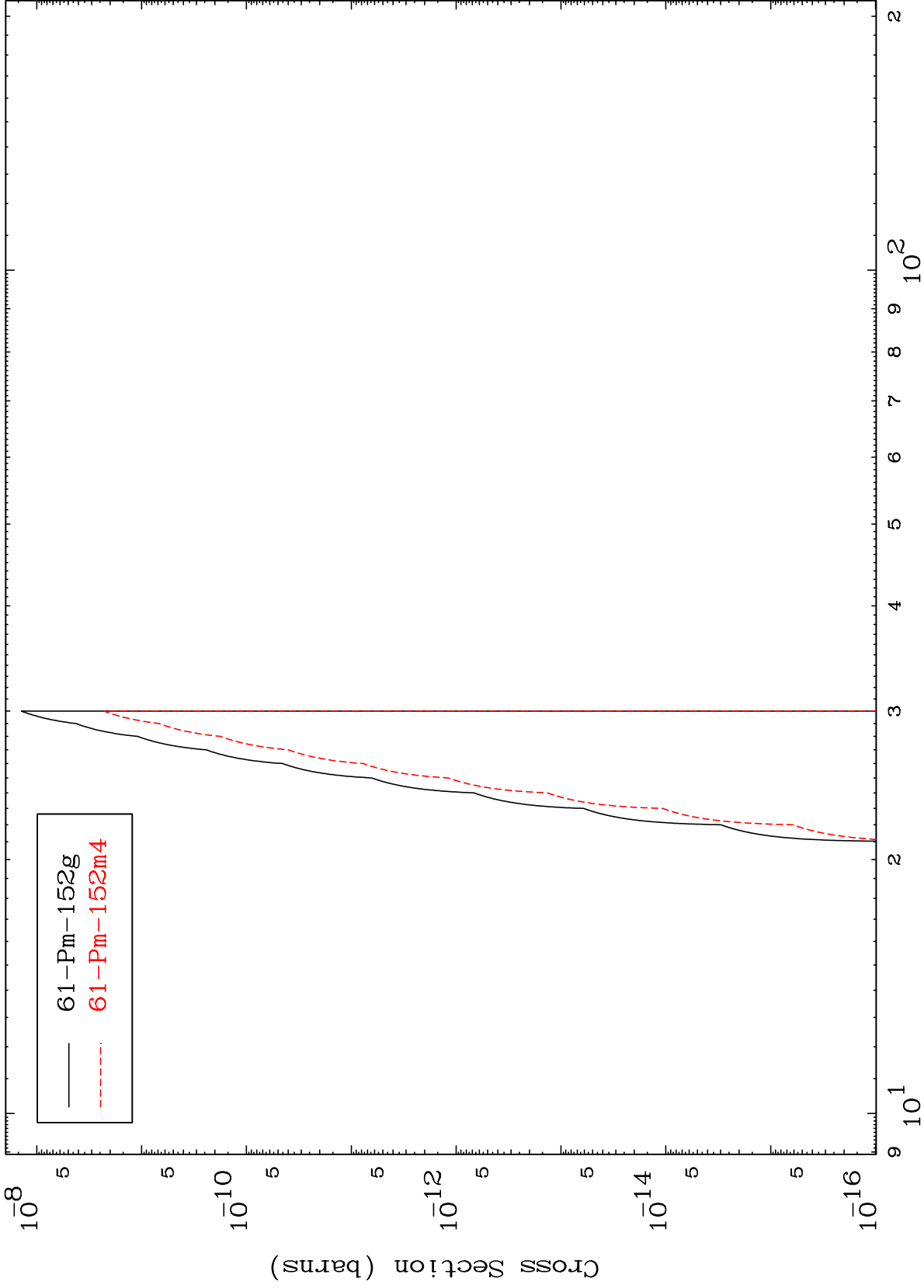
64-Gd-157

MAT 6440

(n,n') p  $\alpha$

64-Gd-157

Radionuclide Production Cross Section



70

Incident Energy (MeV)

64-Gd-157