

Program EVALPLOT  
(Version 2018-1)

by

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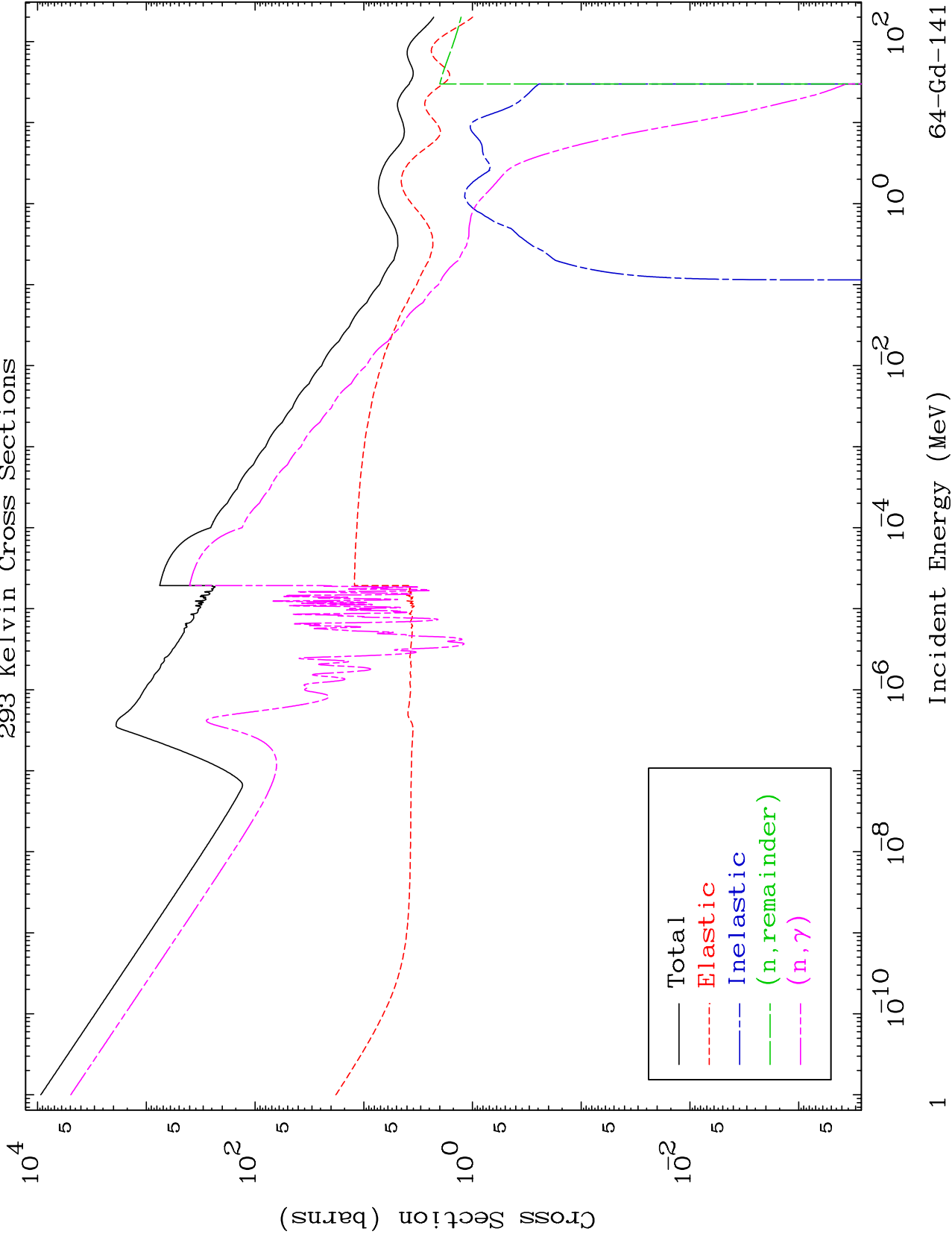
Press Mouse Button to Start

MAT 6392

Major

293 Kelvin Cross Sections

64-Gd-141



1

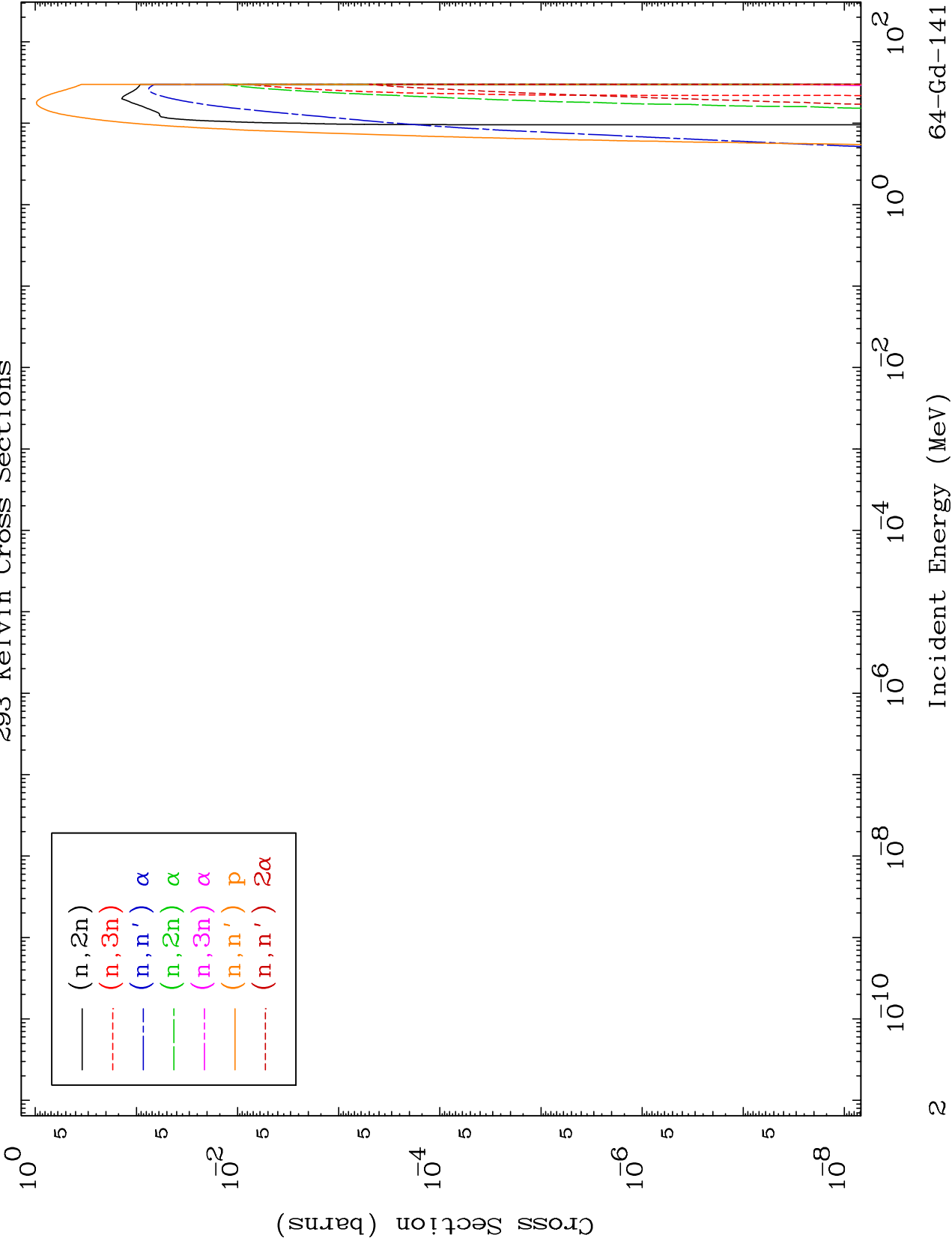
Incident Energy (MeV)

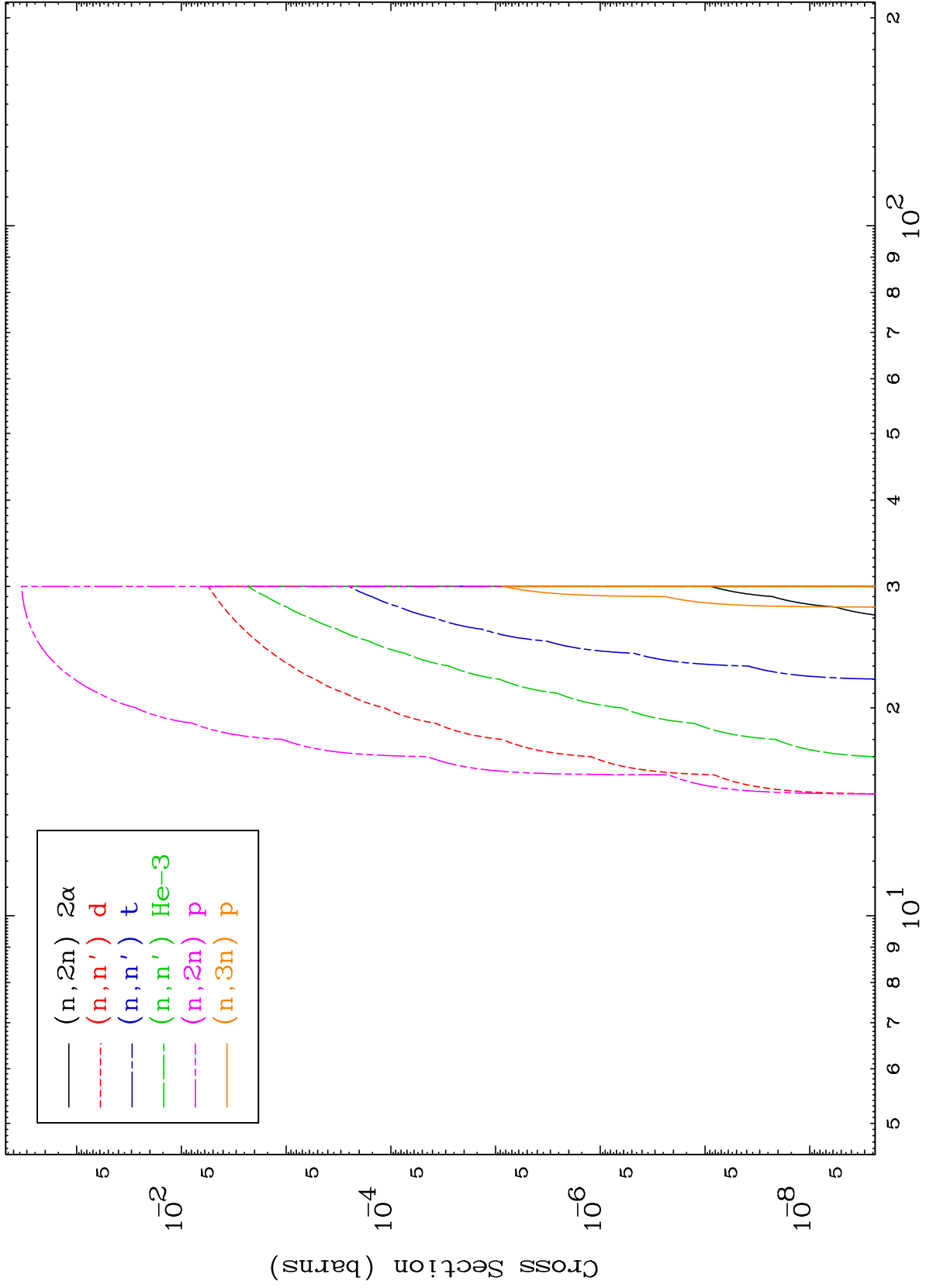
64-Gd-141

MAT 6392

Neutron Production  
293 Kelvin Cross Sections

64-Gd-141

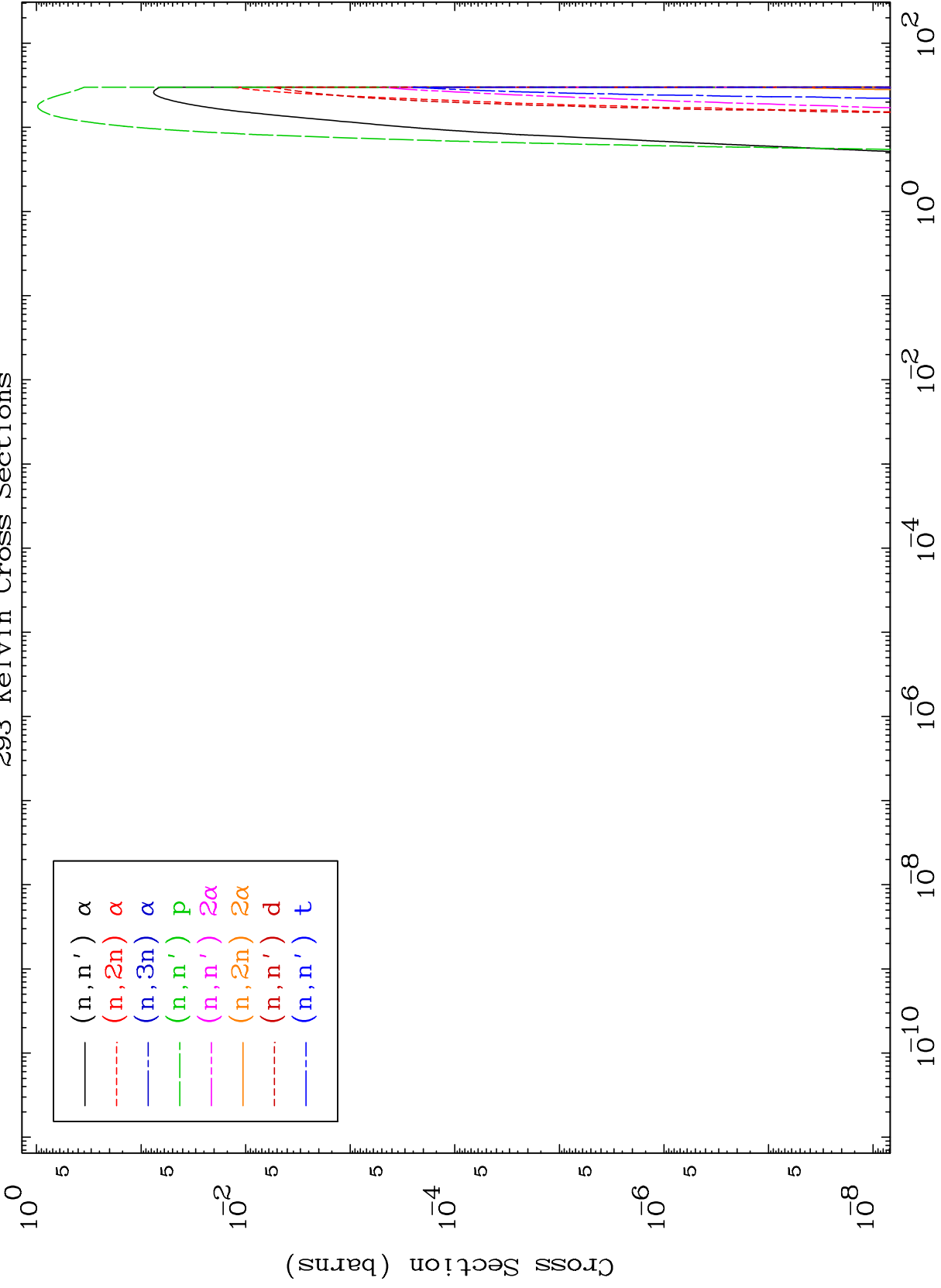




MAT 6392

Charged Particle  
293 Kelvin Cross Sections

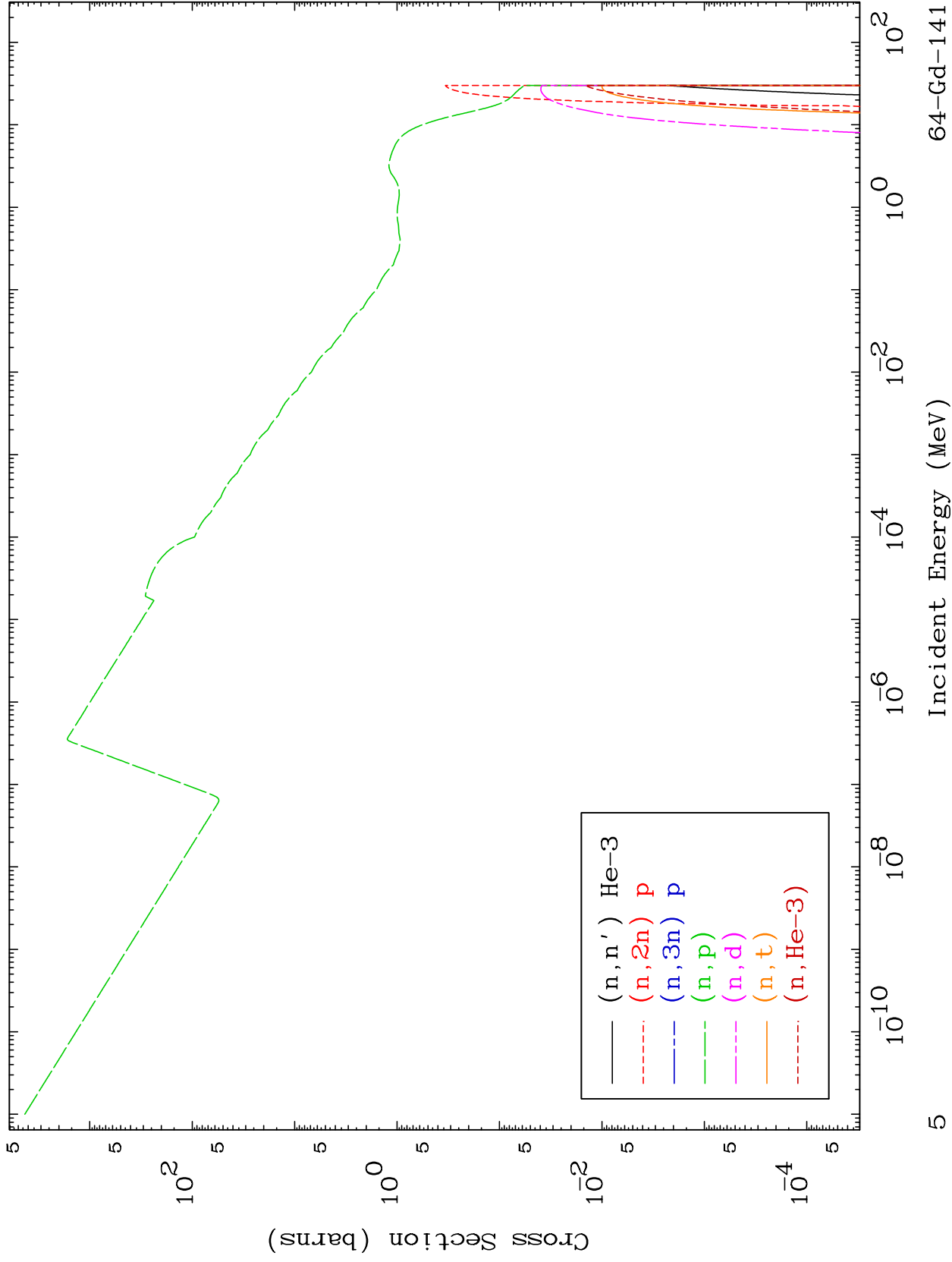
64-Gd-141



MAT 6392

Charged Particle  
293 Kelvin Cross Sections

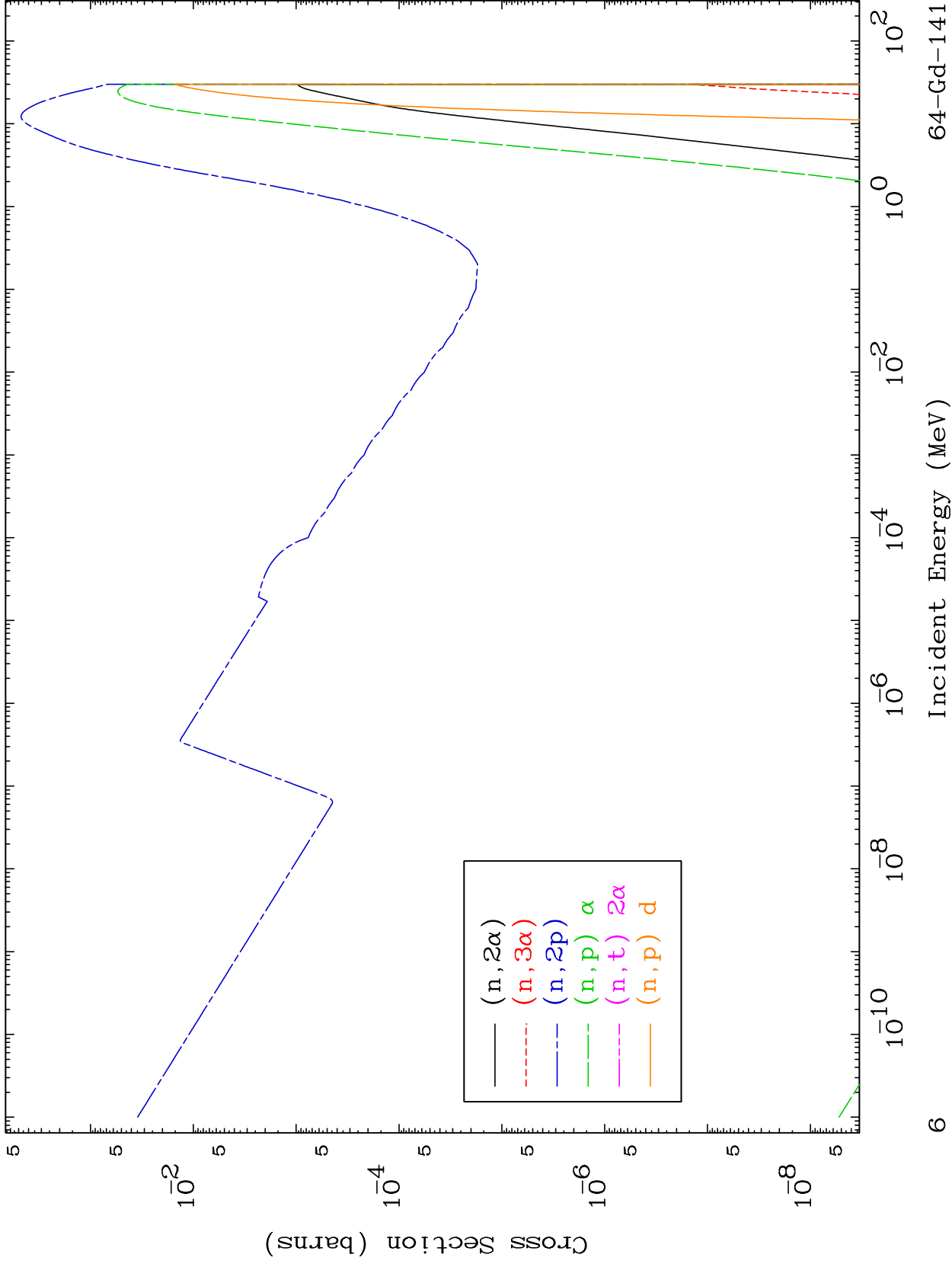
64-Gd-141



MAT 6392

Charged Particle  
293 Kelvin Cross Sections

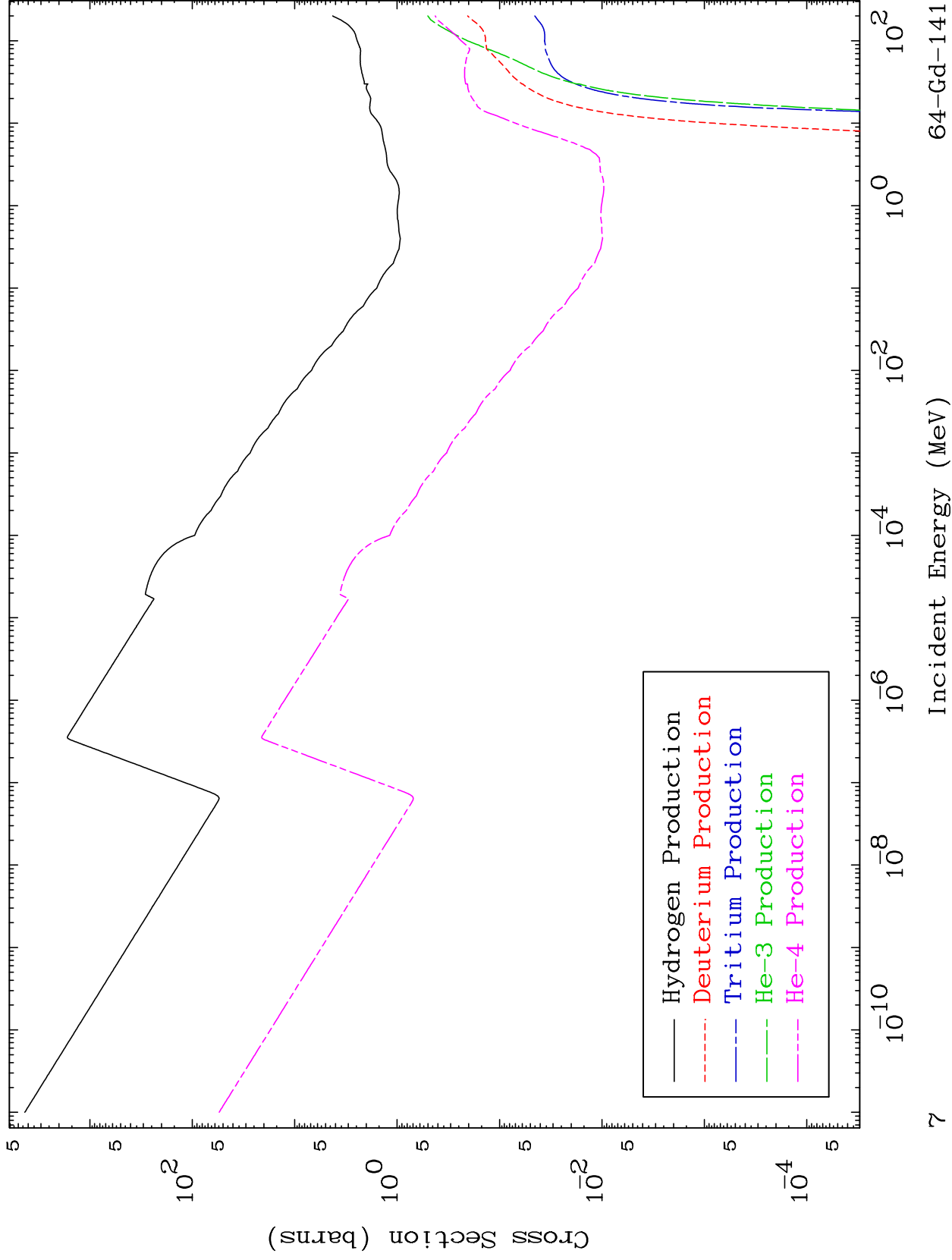
64-Gd-141



MAT 6392

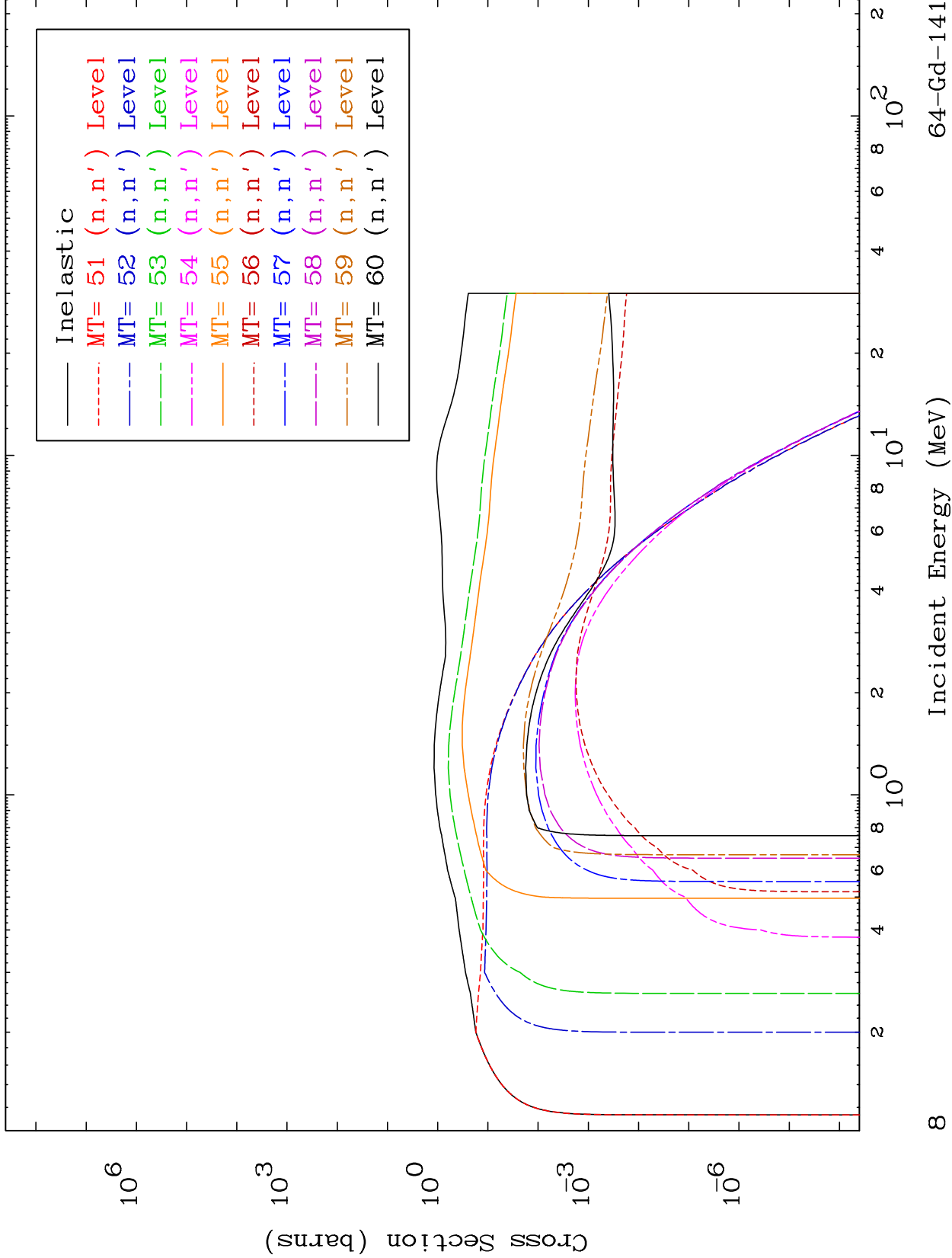
Particle Production  
293 Kelvin Cross Sections

64-Gd-141





293 Kelvin Cross Sections

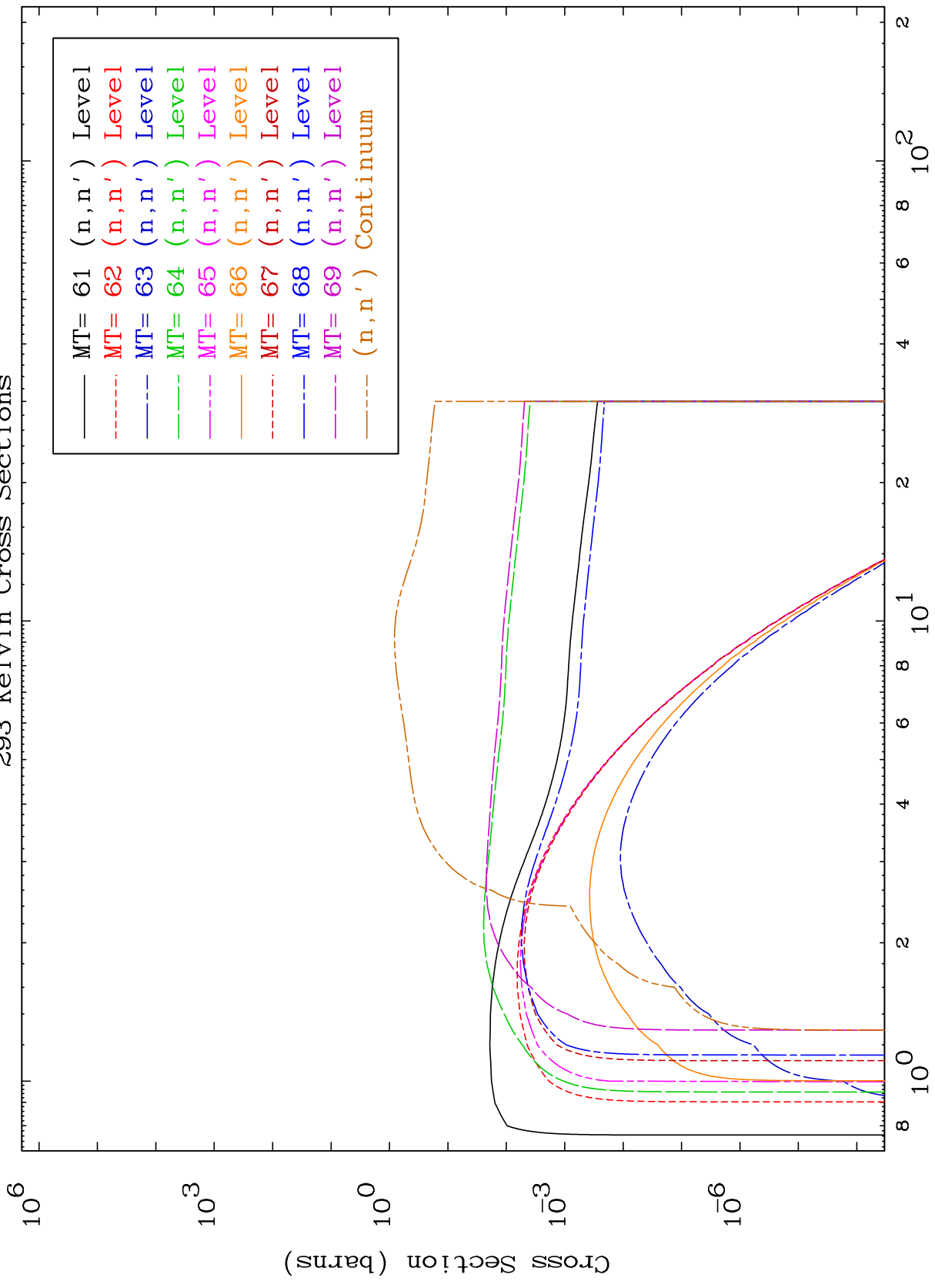


MAT 6392

(n,n') Level

64-Gd-141

293 Kelvin Cross Sections



9

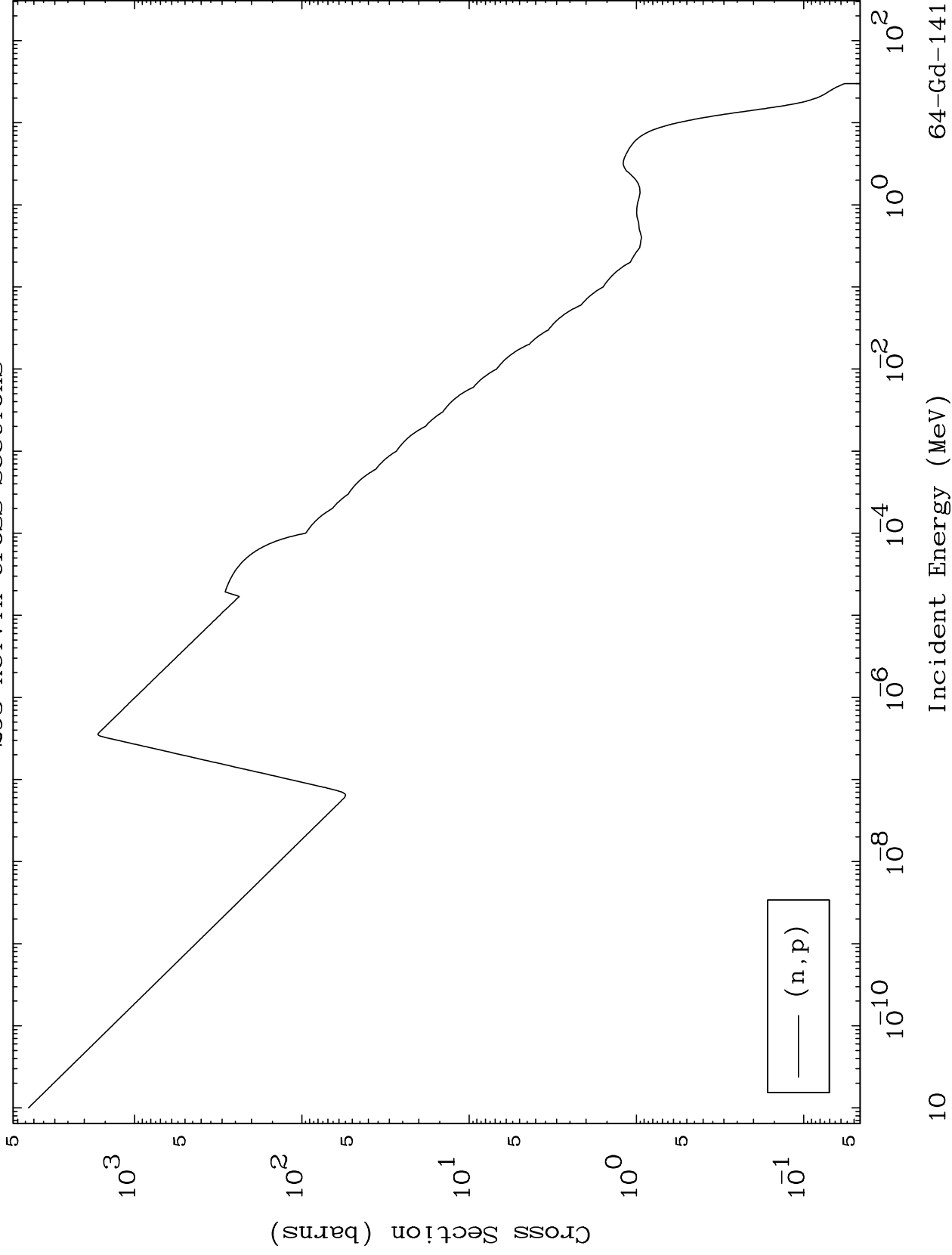
Incident Energy (MeV)

64-Gd-141

MAT 6392

(n,p) Levels  
293 Kelvin Cross Sections

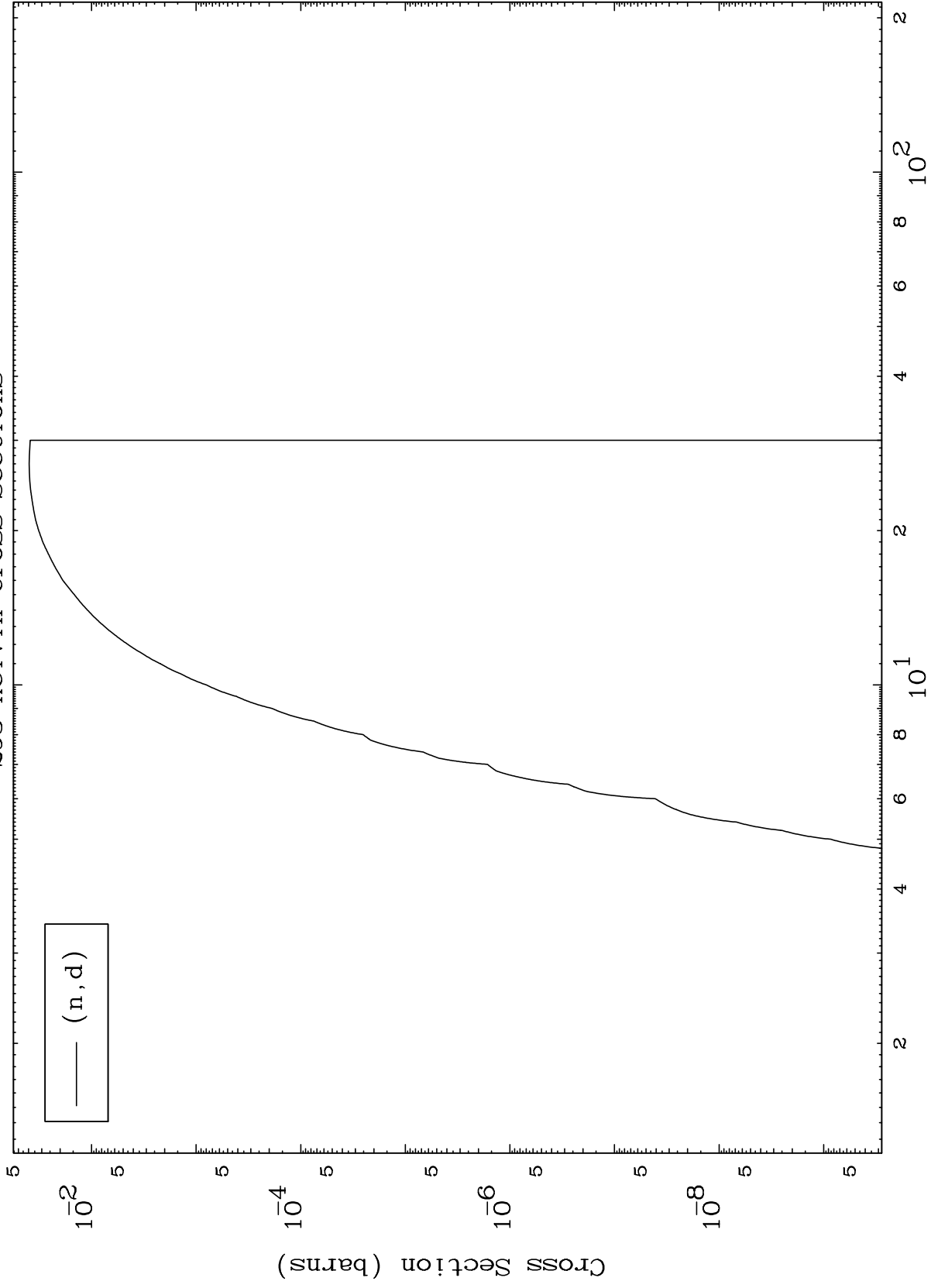
64-Gd-141



MAT 6392

(n,d) Levels  
293 Kelvin Cross Sections

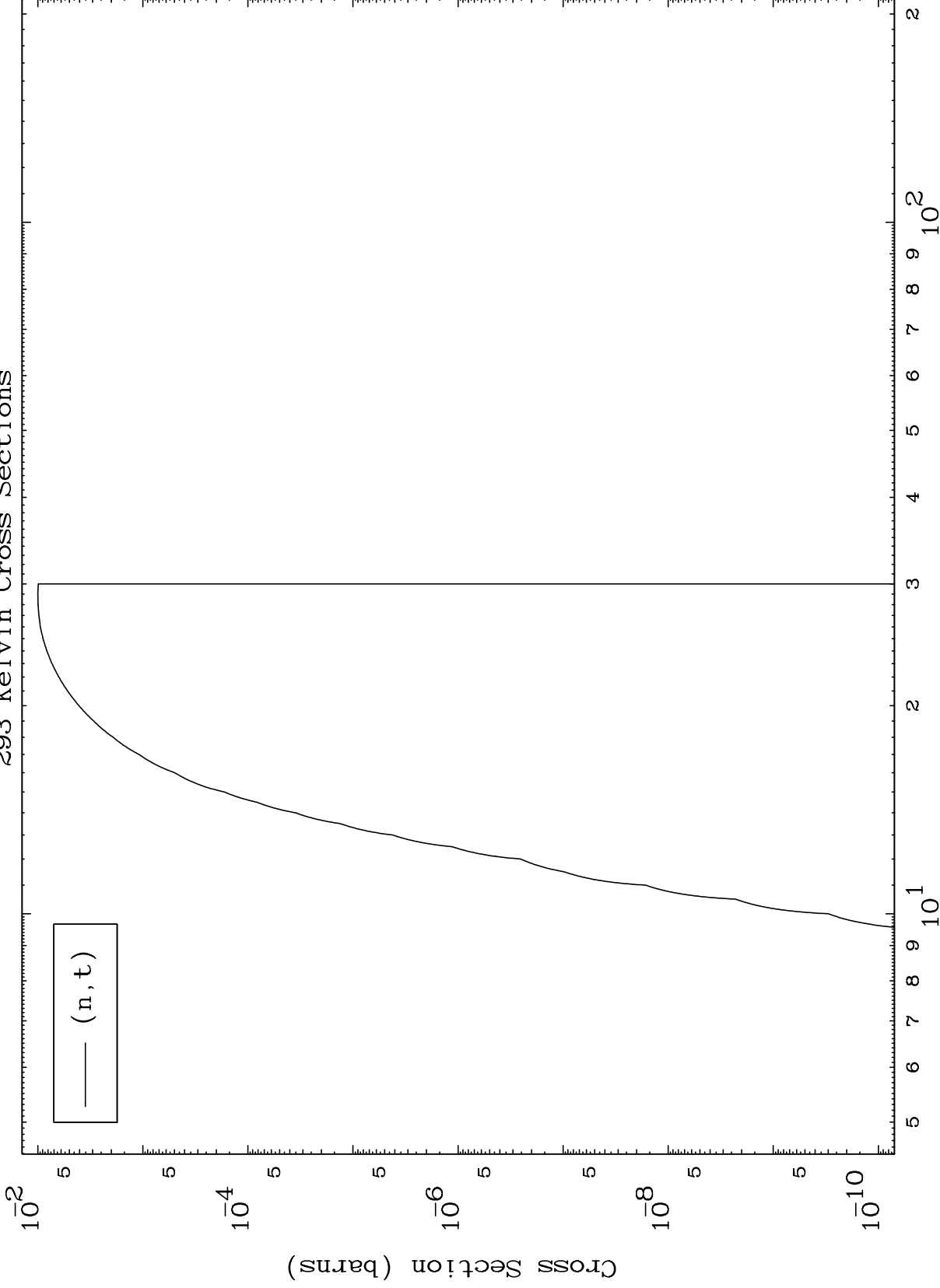
64-Gd-141



MAT 6392

(n,t) Levels  
293 Kelvin Cross Sections

64-Gd-141



12

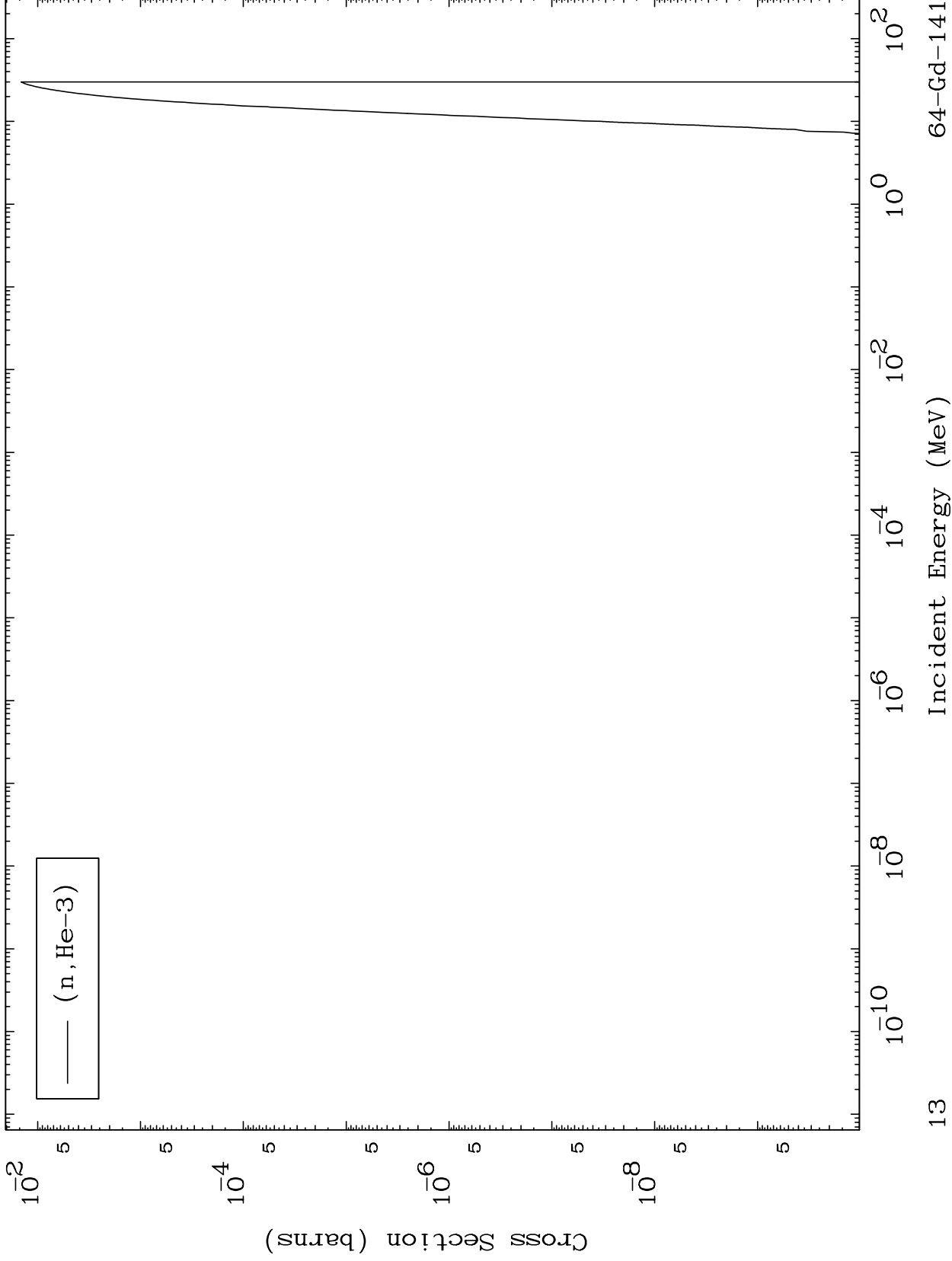
Incident Energy (MeV)

64-Gd-141

MAT 6392

(n,He3) Levels  
293 Kelvin Cross Sections

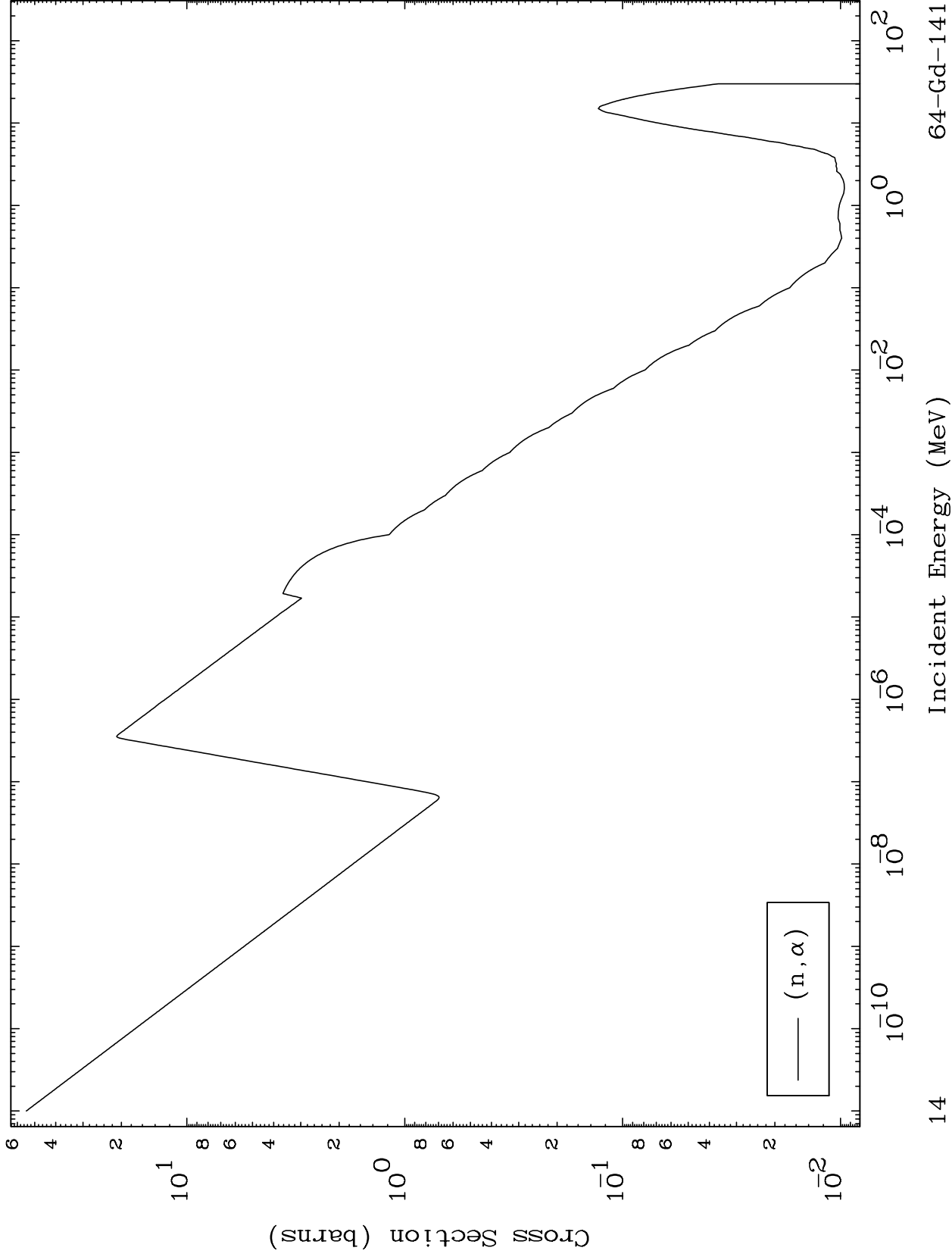
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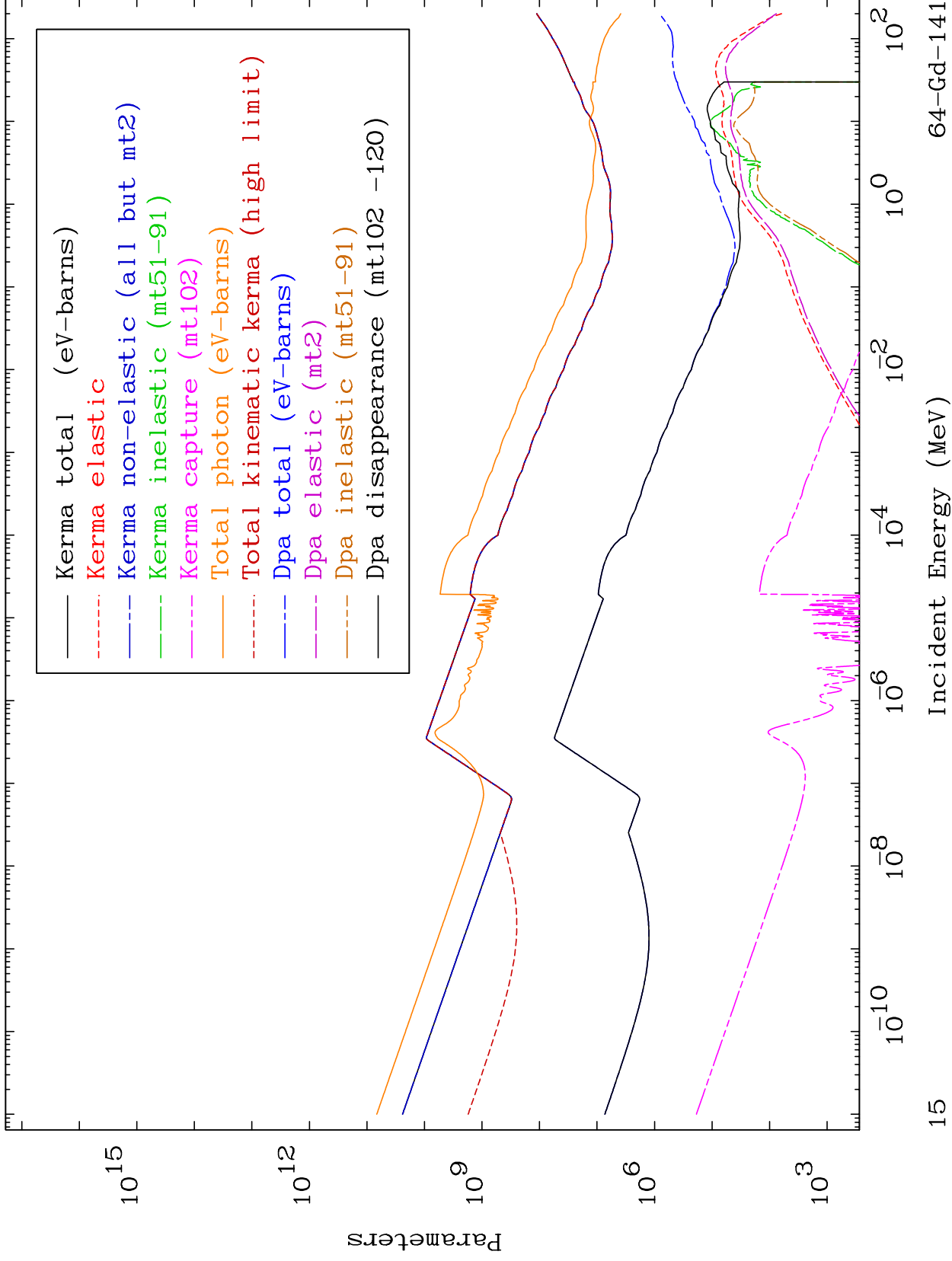


MAT 6392

(n,α) Levels  
293 Kelvin Cross Sections

64-Gd-141



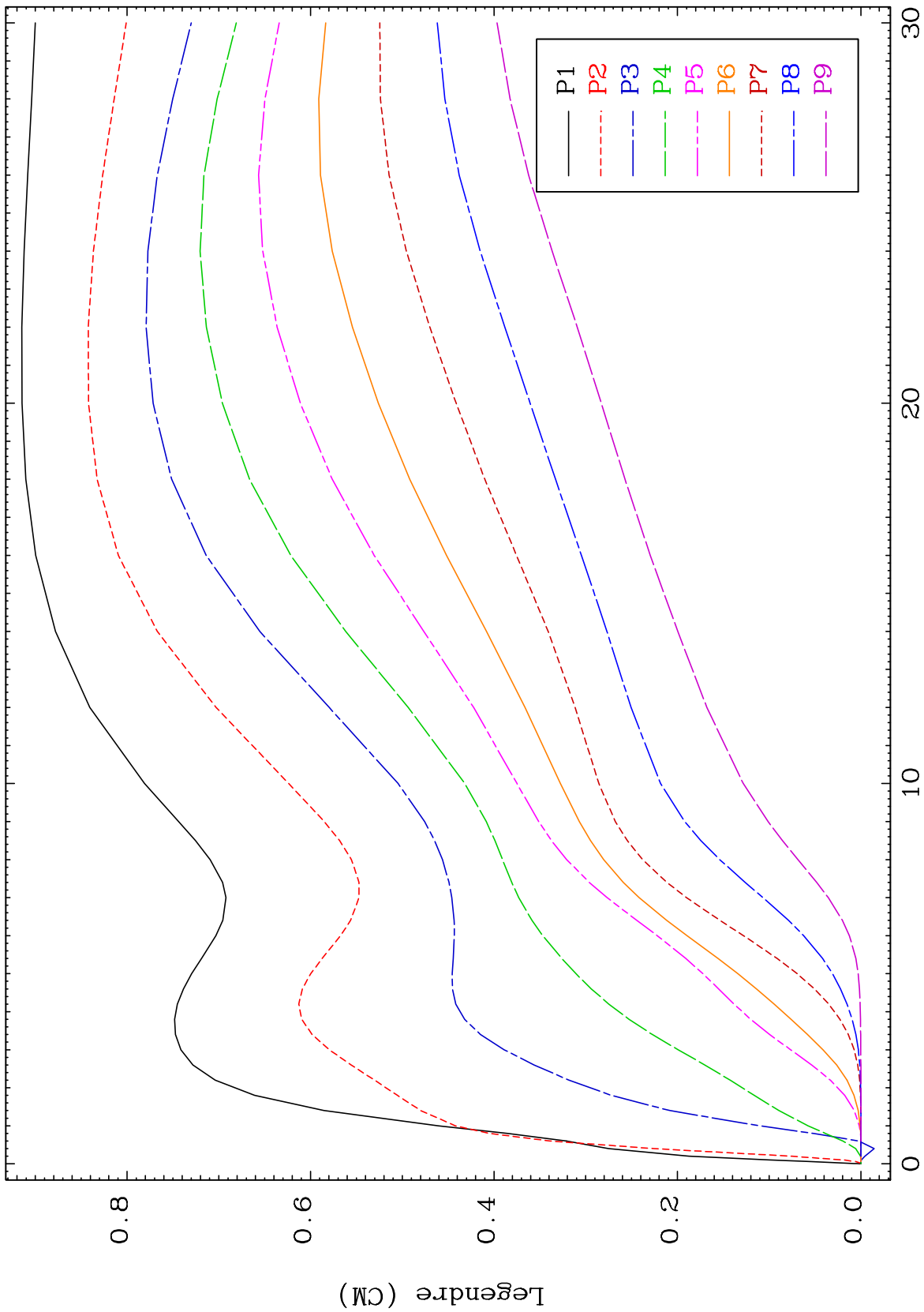




MAT 6392

Elastic Legendre Coefficients

64-Gd-141



16

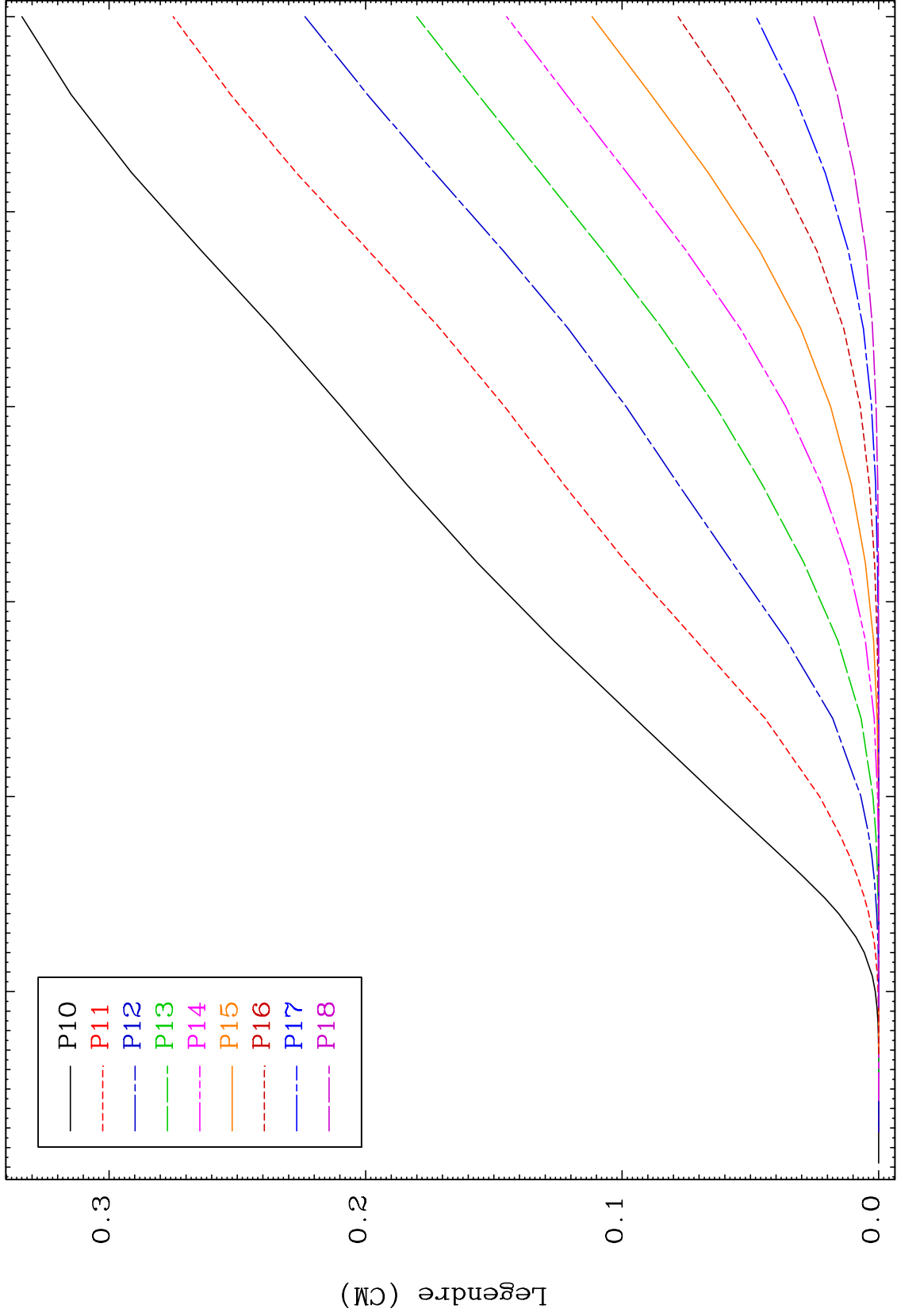
Incident Energy (MeV)

64-Gd-141

MAT 6392

Elastic Legendre Coefficients

64-Gd-141



17

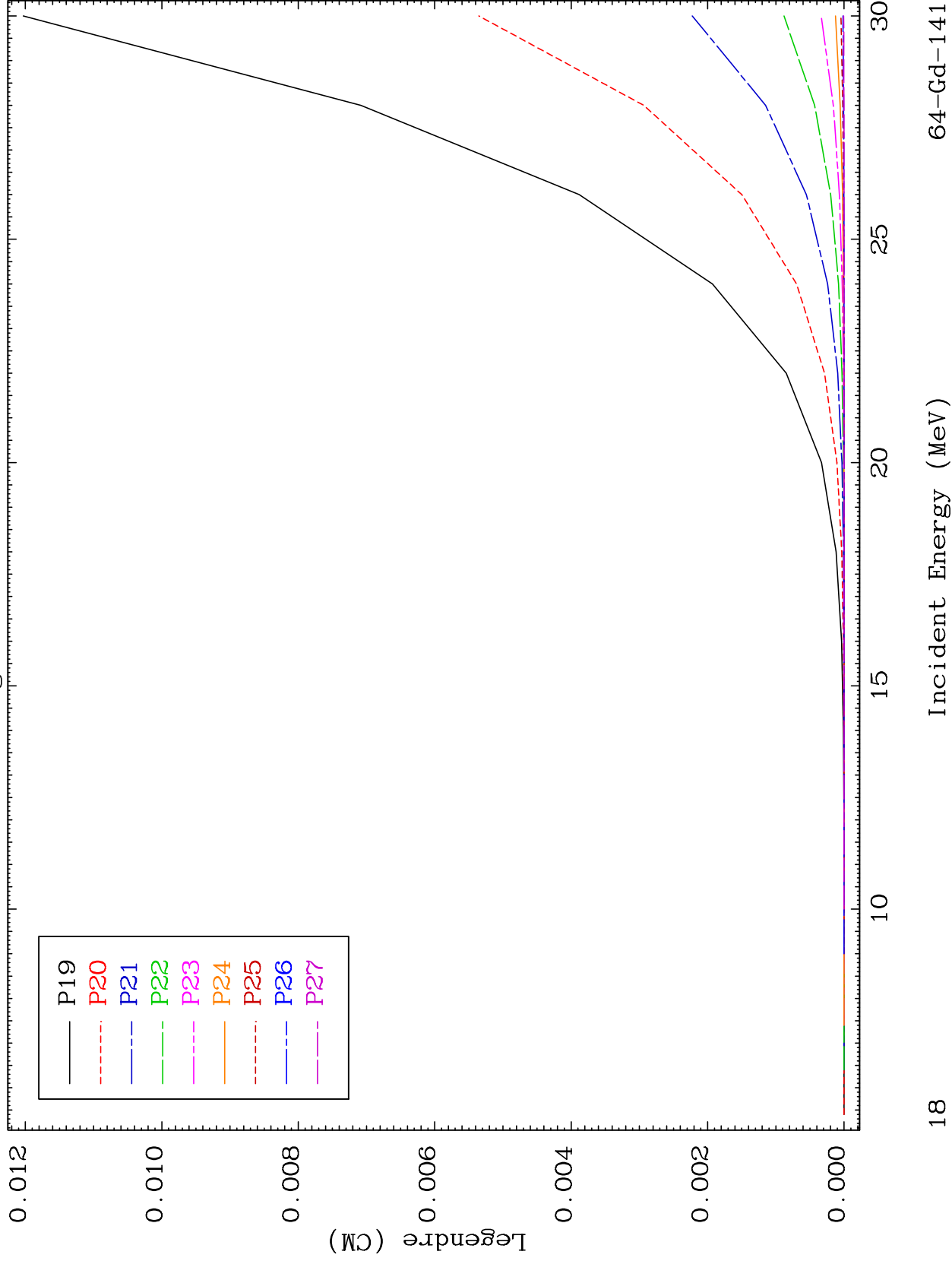
Incident Energy (MeV)

64-Gd-141

MAT 6392

Elastic Legendre Coefficients

64-Gd-141



18

Incident Energy (MeV)

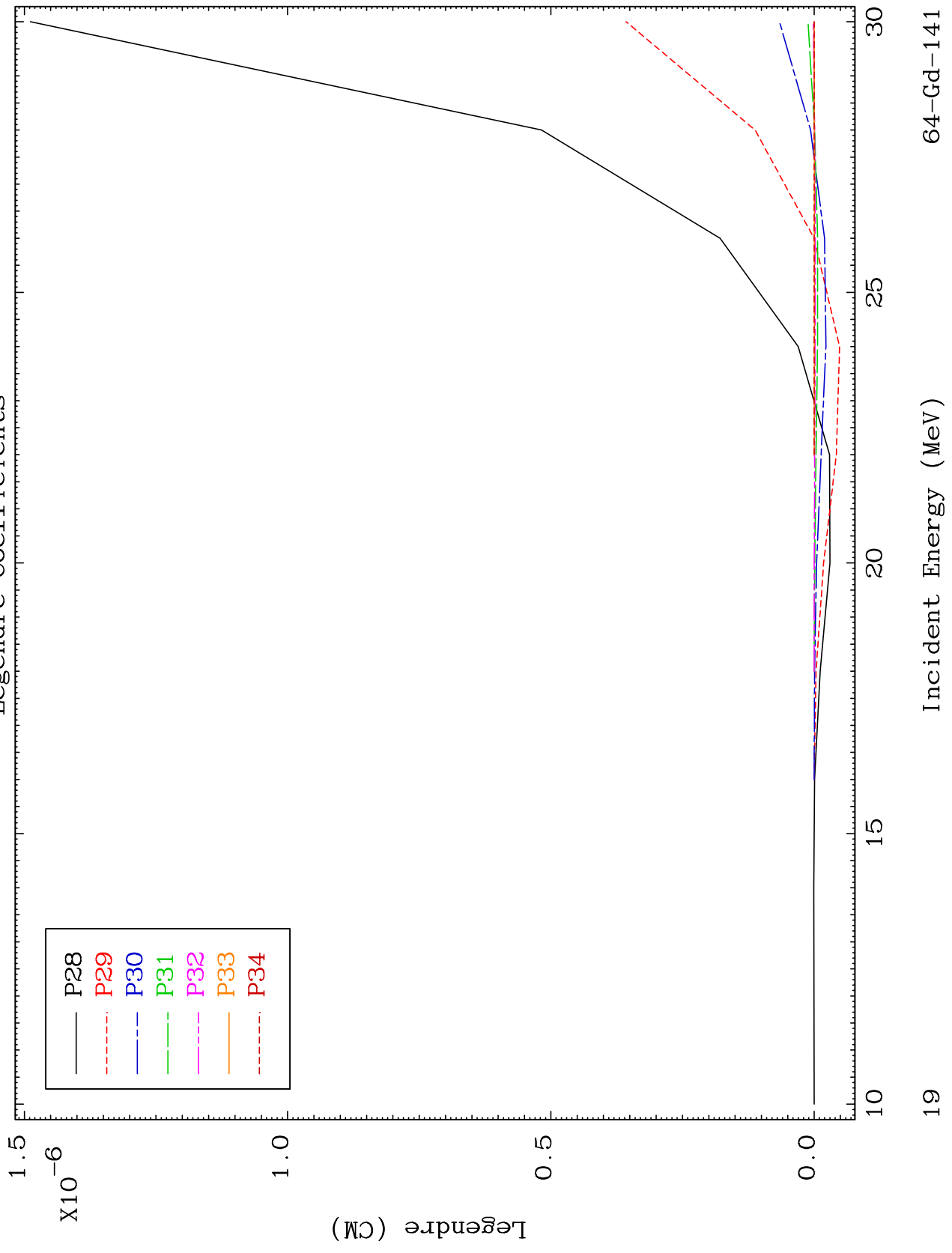
64-Gd-141

30

MAT 6392

Elastic Legendre Coefficients

64-Gd-141



64-Gd-141

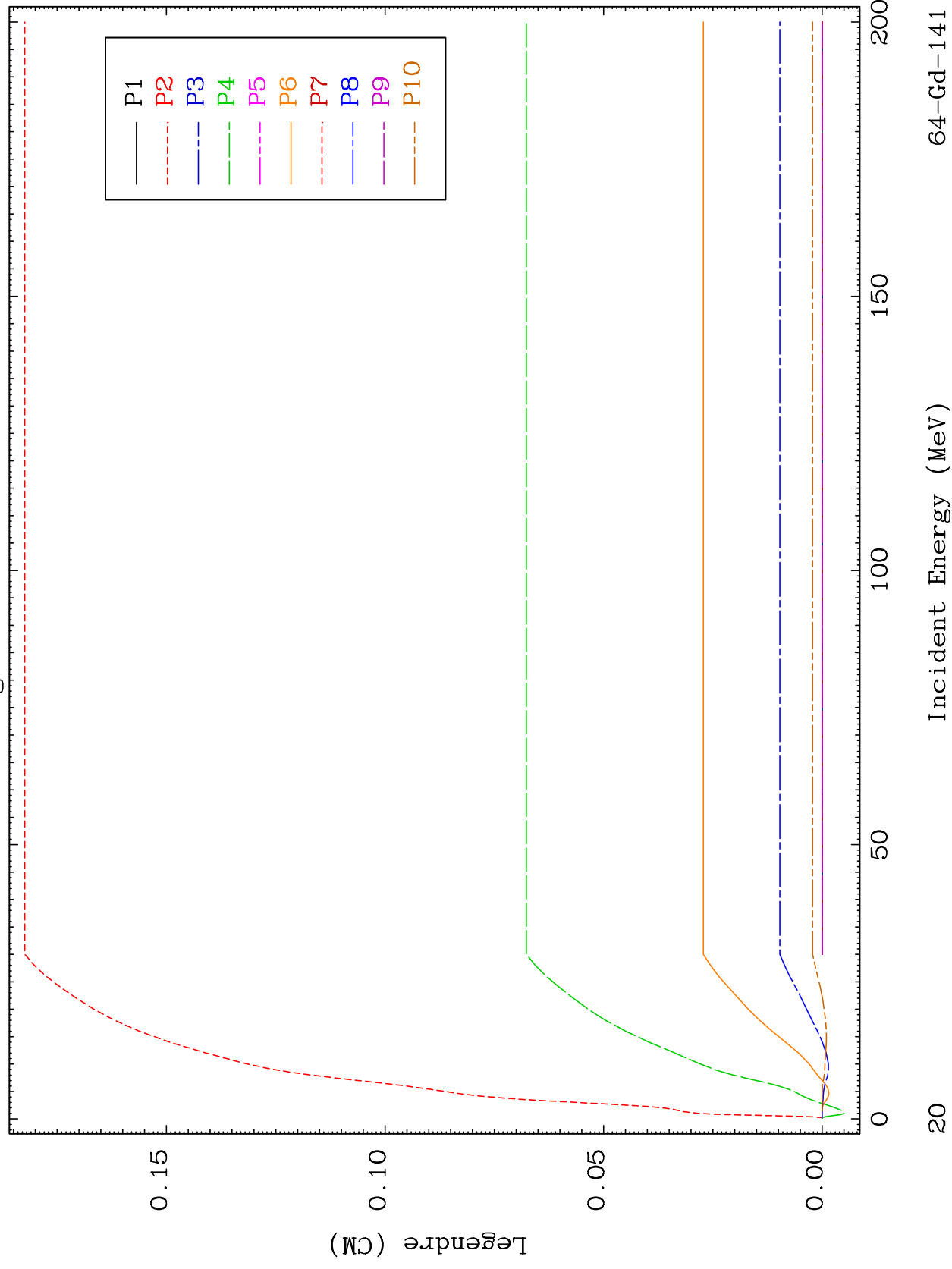
Incident Energy (MeV)

19

MAT 6392

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

64-Gd-141

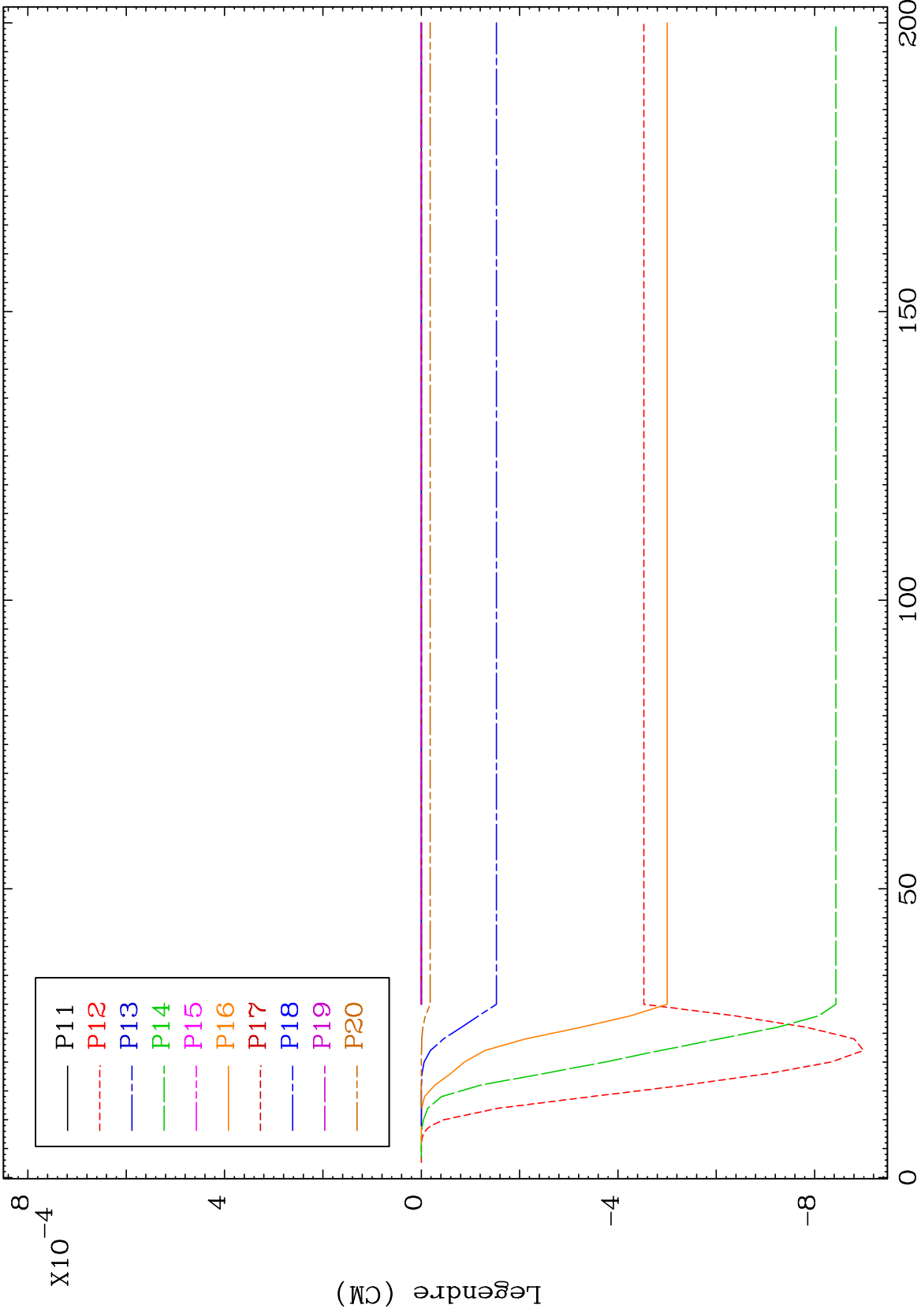


64-Gd-141

MAT 6392

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

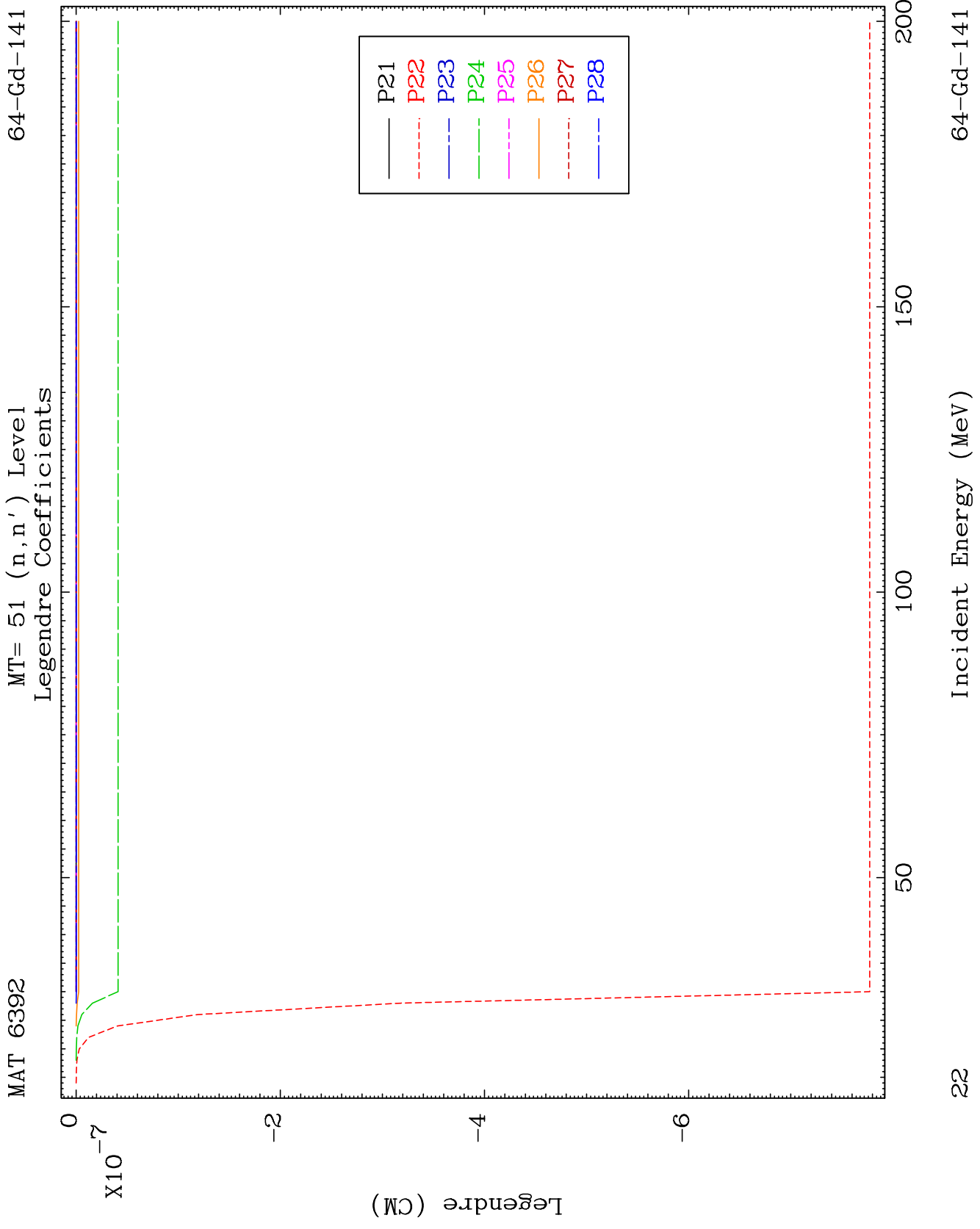
64-Gd-141



21

Incident Energy (MeV)

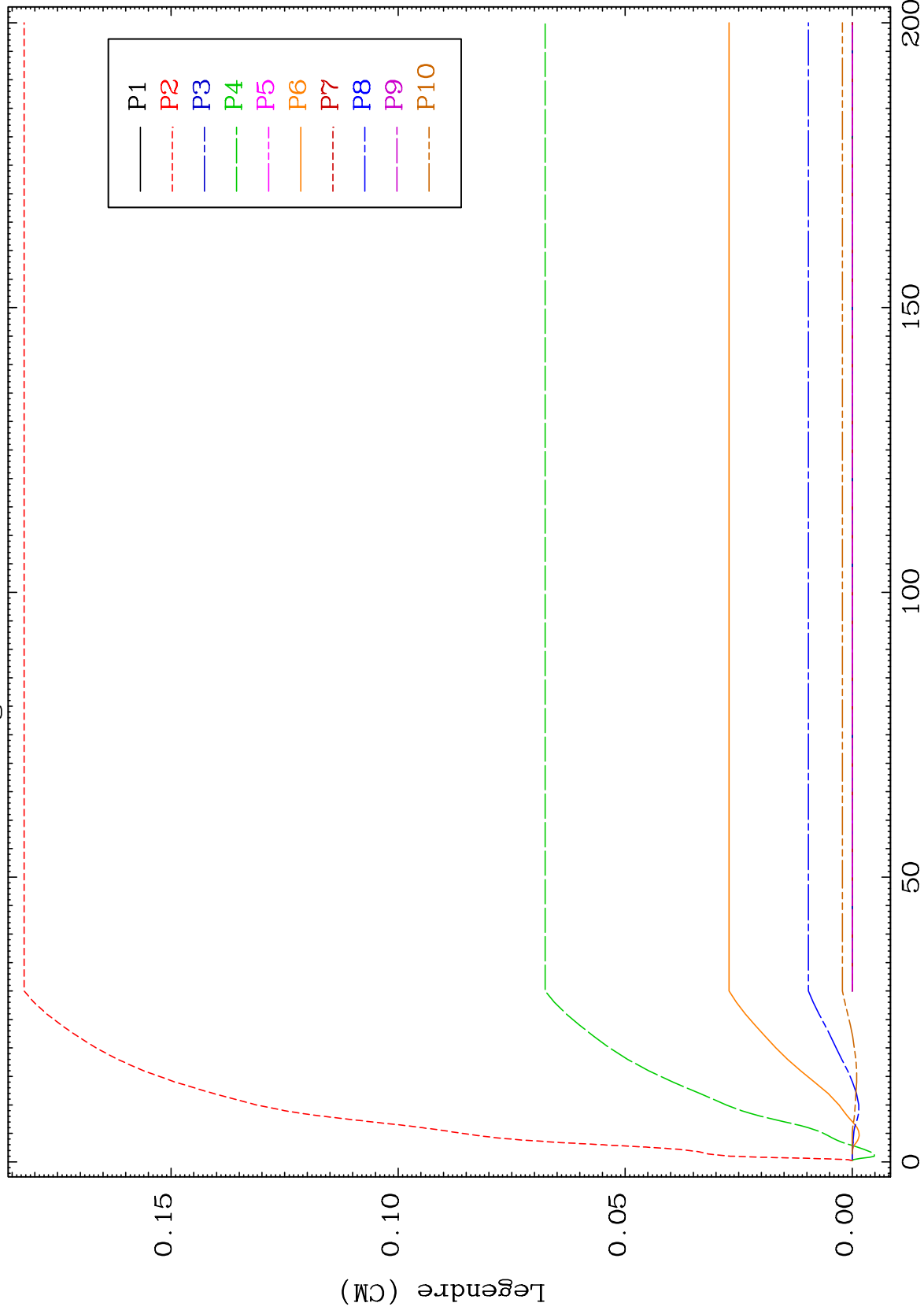
64-Gd-141



MAT 6392

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

64-Gd-141



23

Incident Energy (MeV)

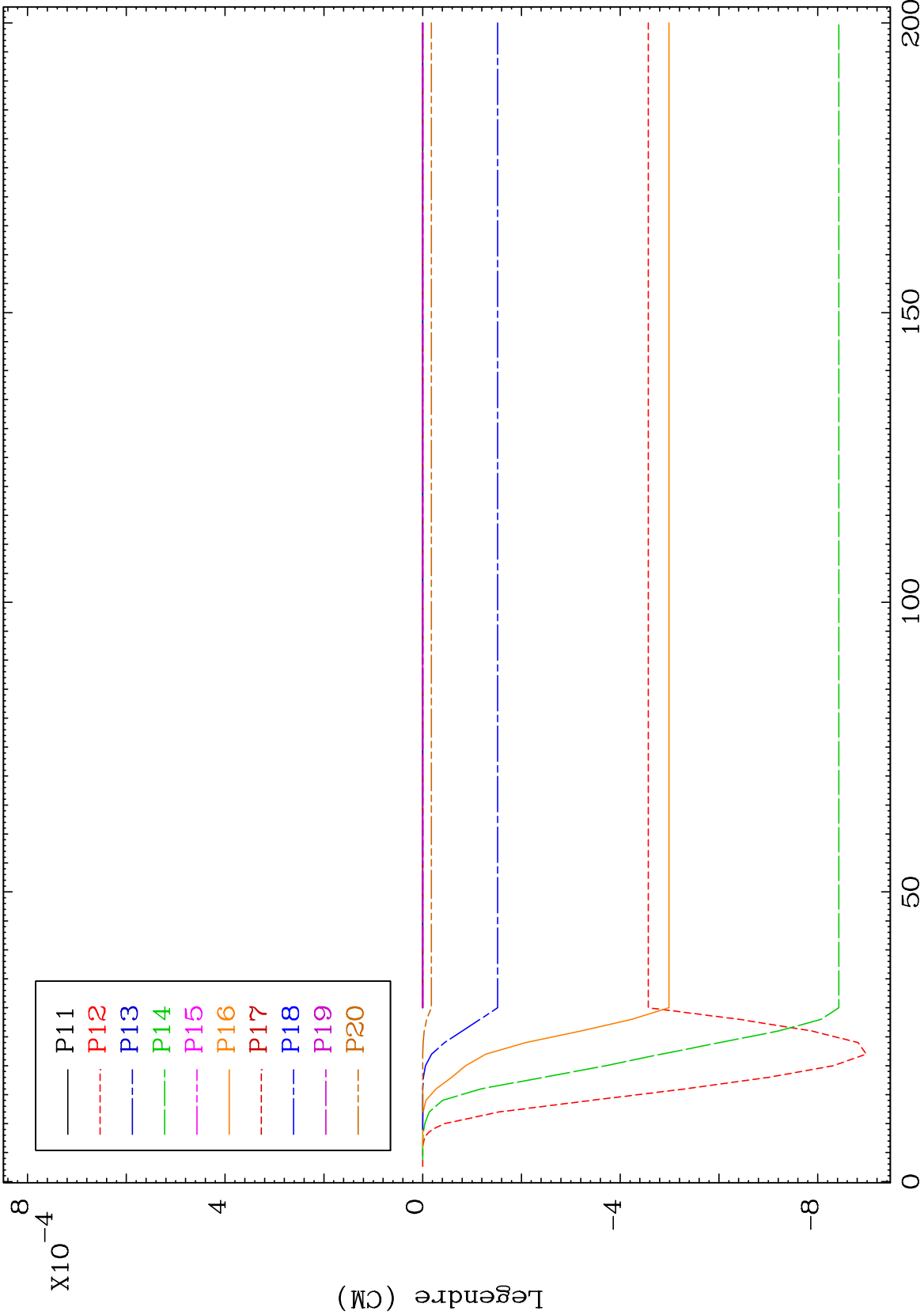
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MAT 6392

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

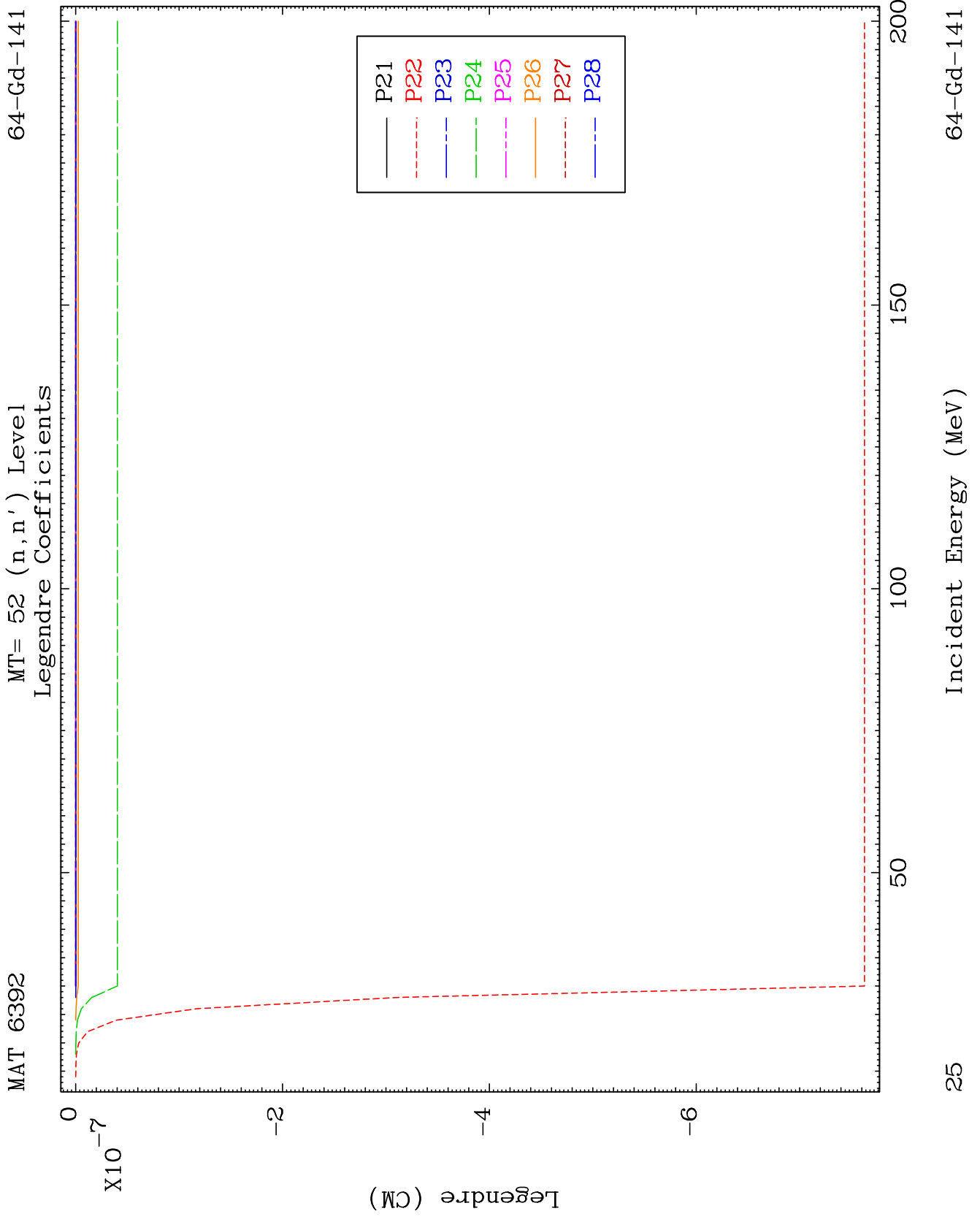
64-Gd-141



24

Incident Energy (MeV)

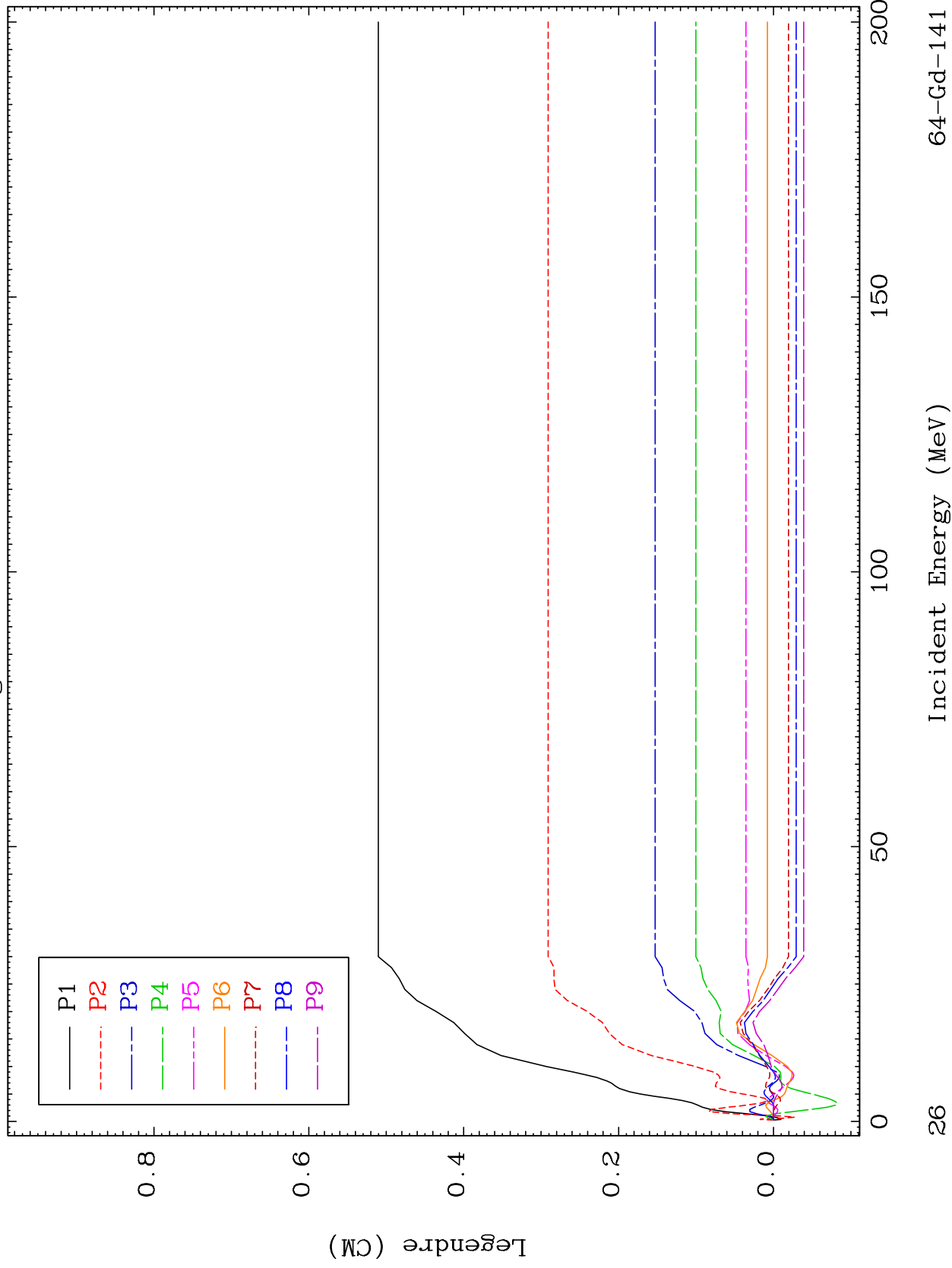
64-Gd-141



MAT 6392

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

64-Gd-141



64-Gd-141

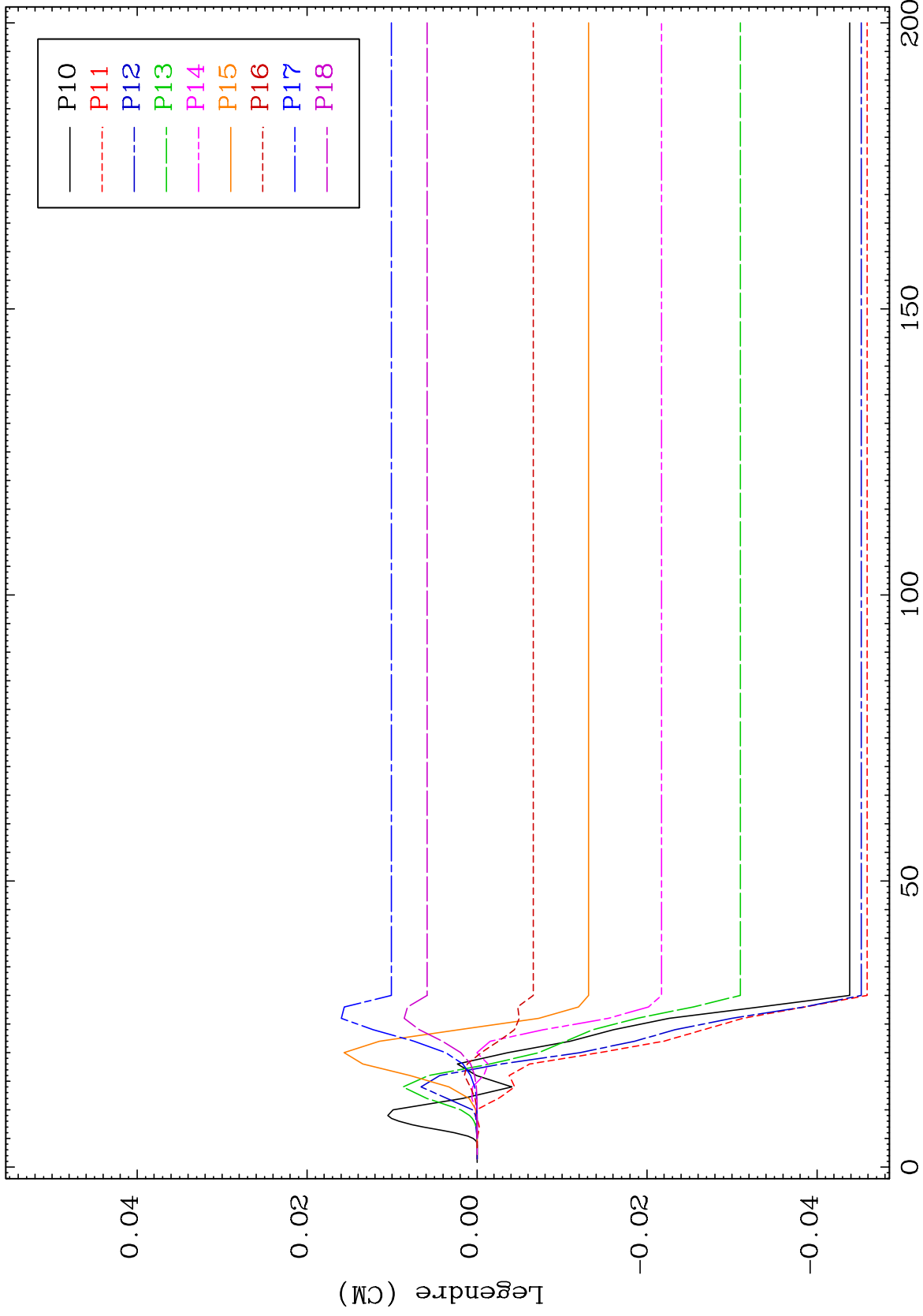
Incident Energy (MeV)

26

MAT 6392

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

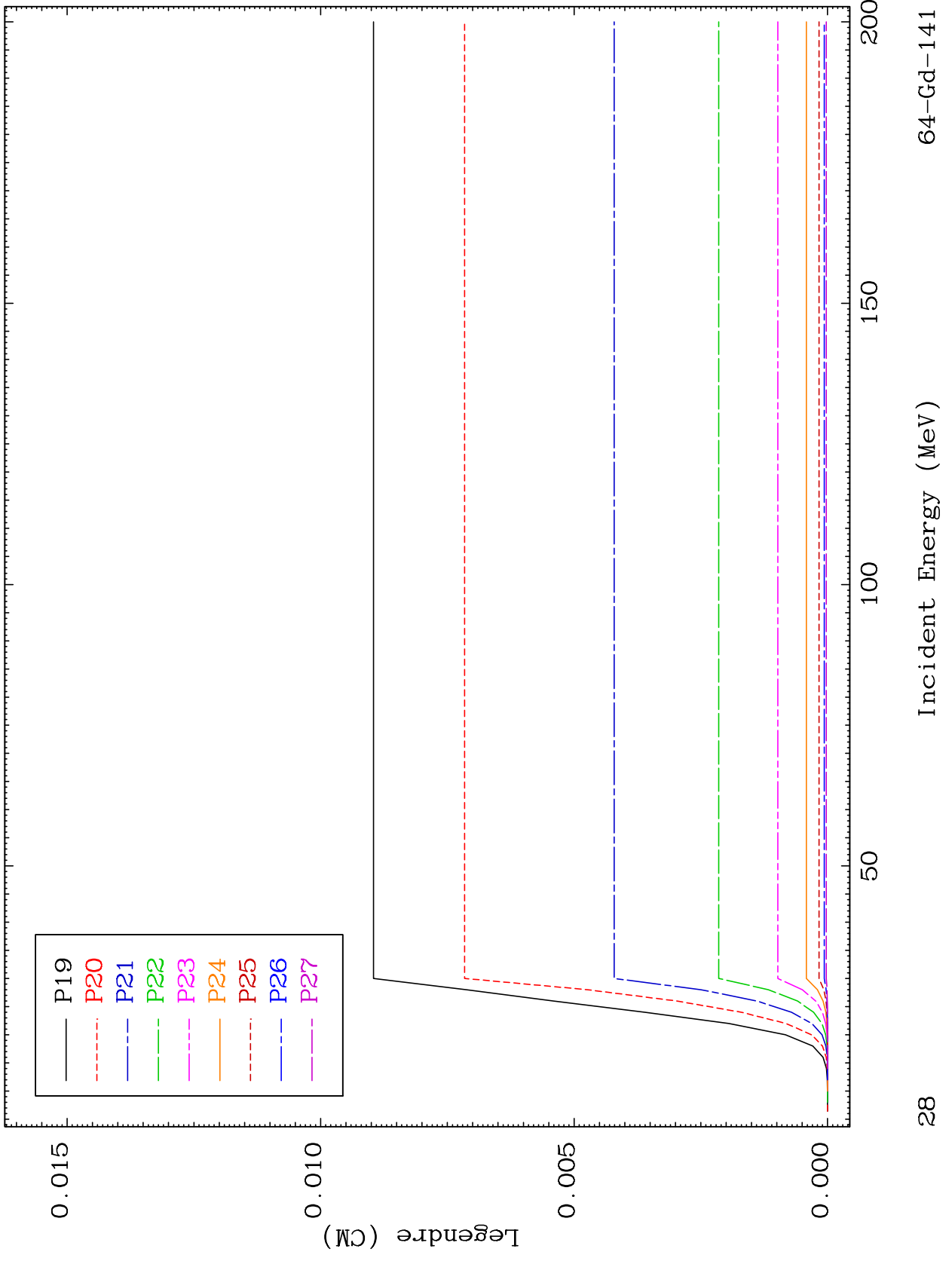
64-Gd-141



27

Incident Energy (MeV)

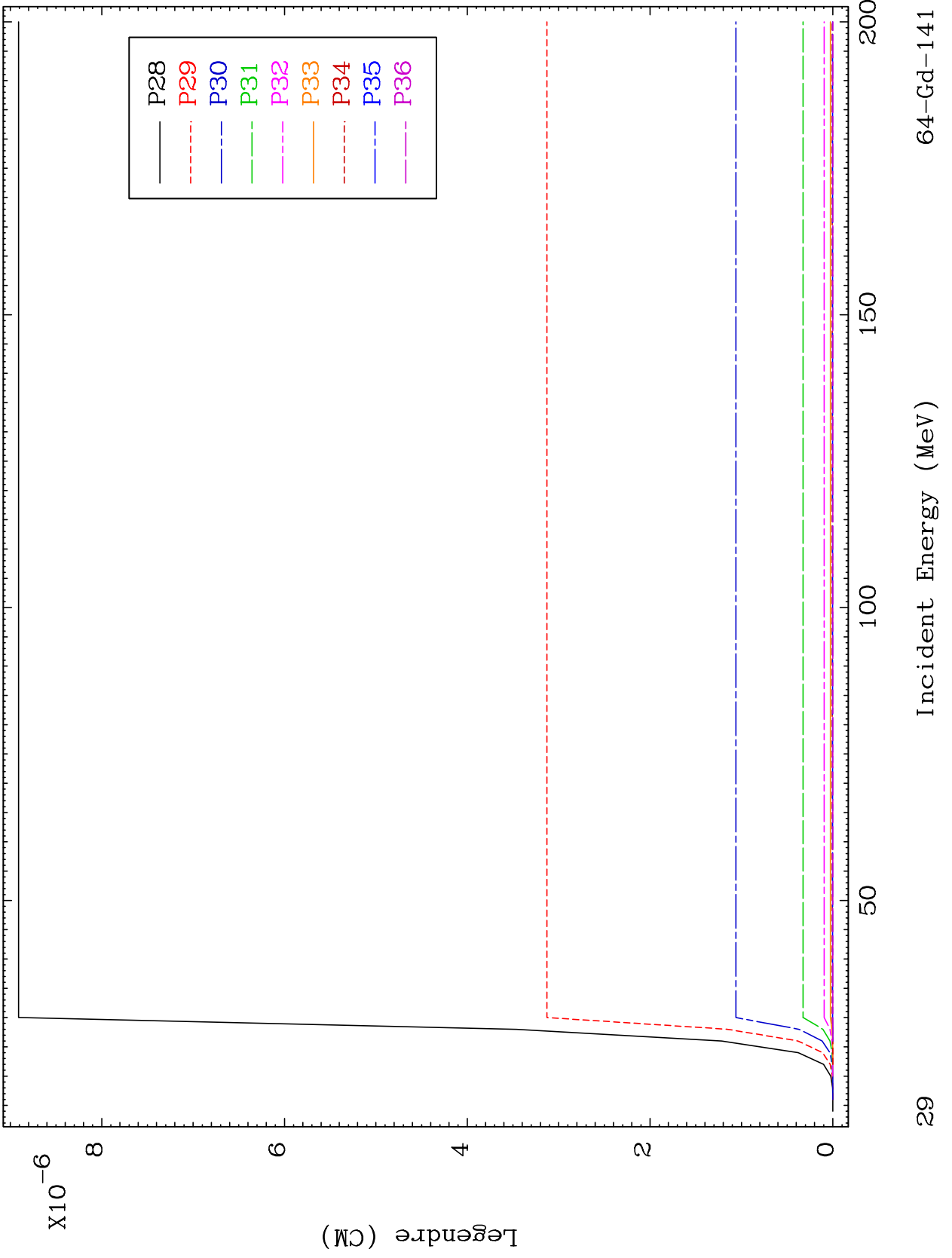
64-Gd-141



MAT 6392

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

64-Gd-141



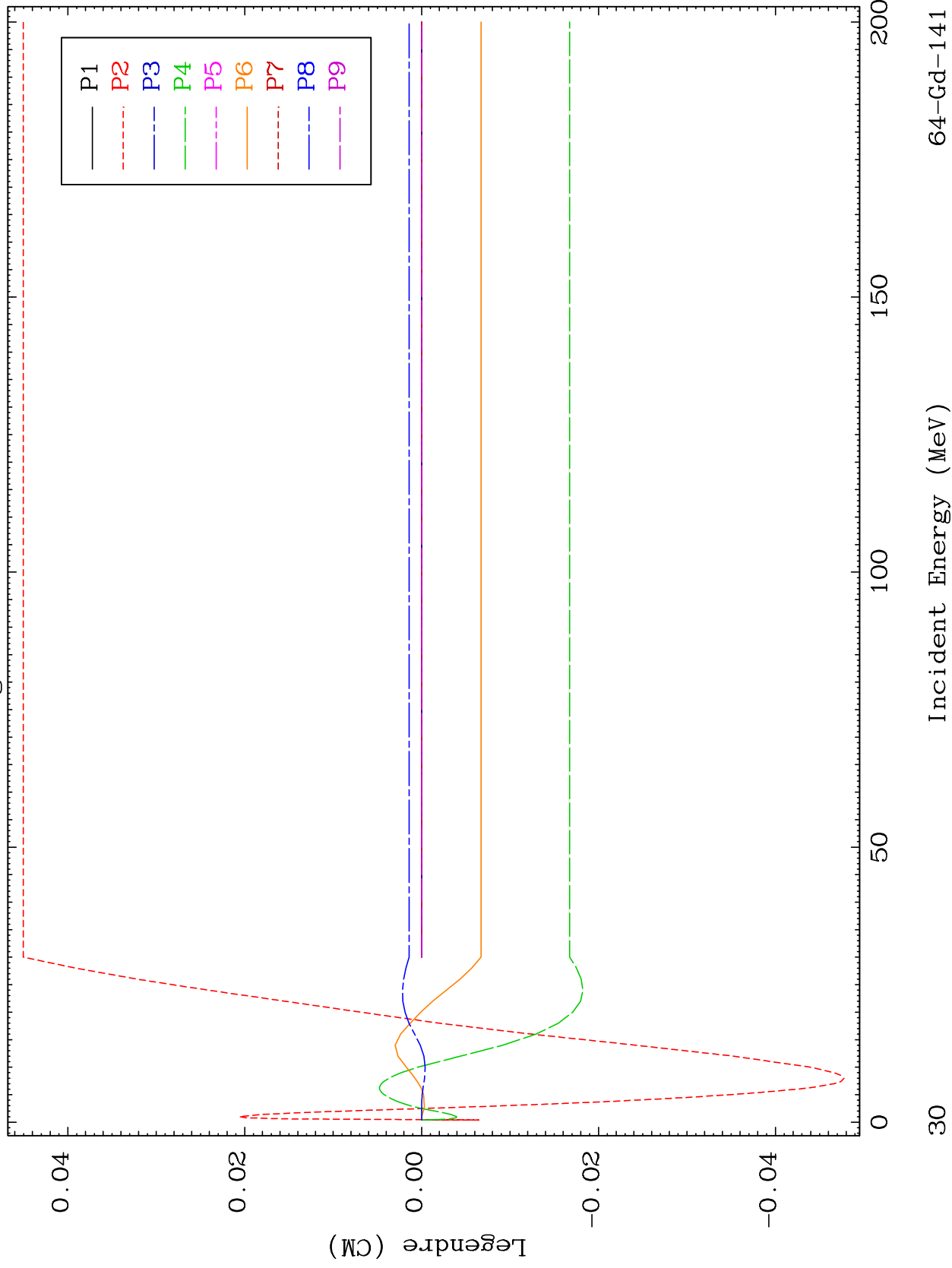
29

64-Gd-141

MAT 6392

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

64-Gd-141



64-Gd-141

Incident Energy (MeV)

30

200

150

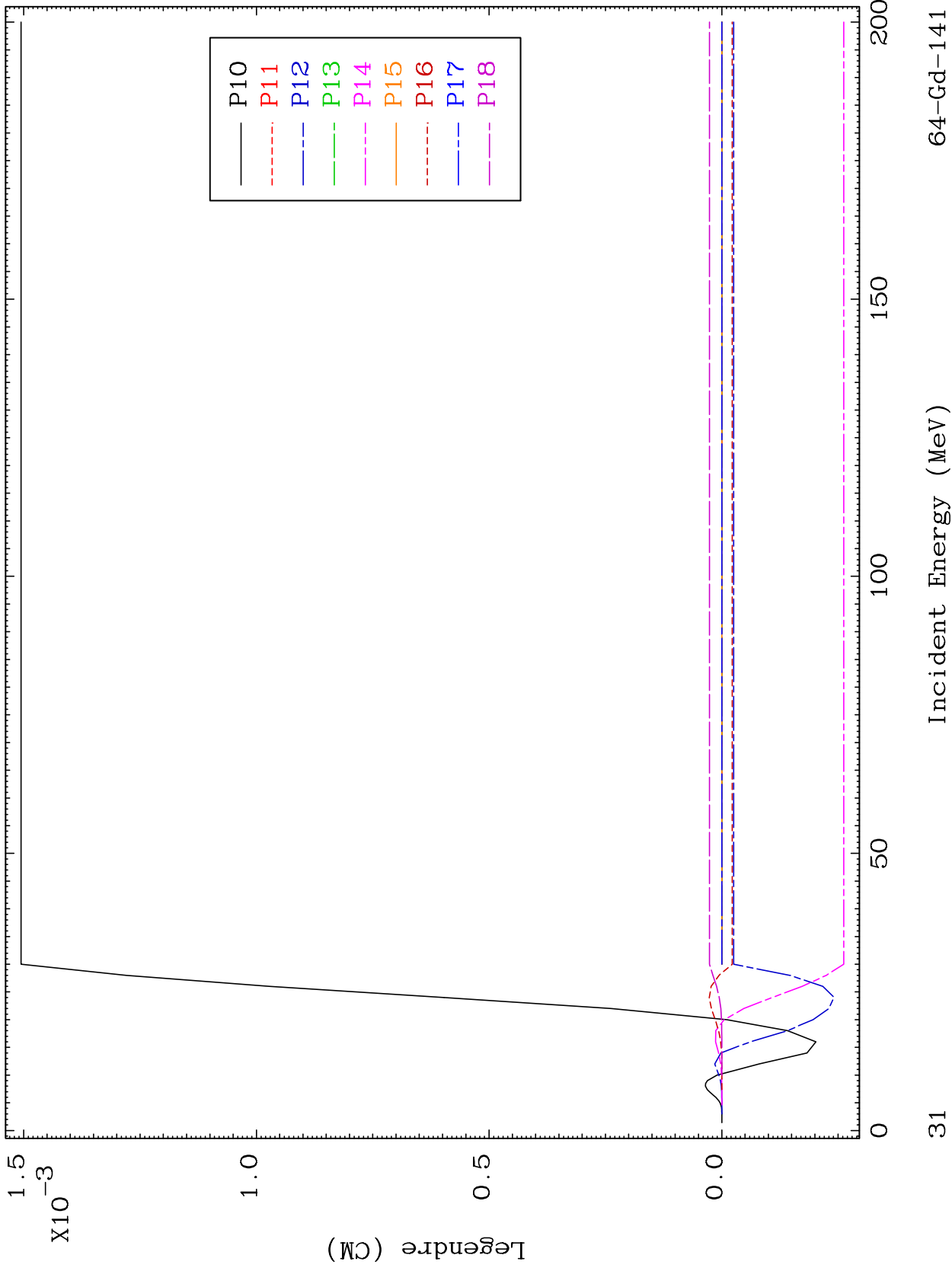
100

50

MAT 6392

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

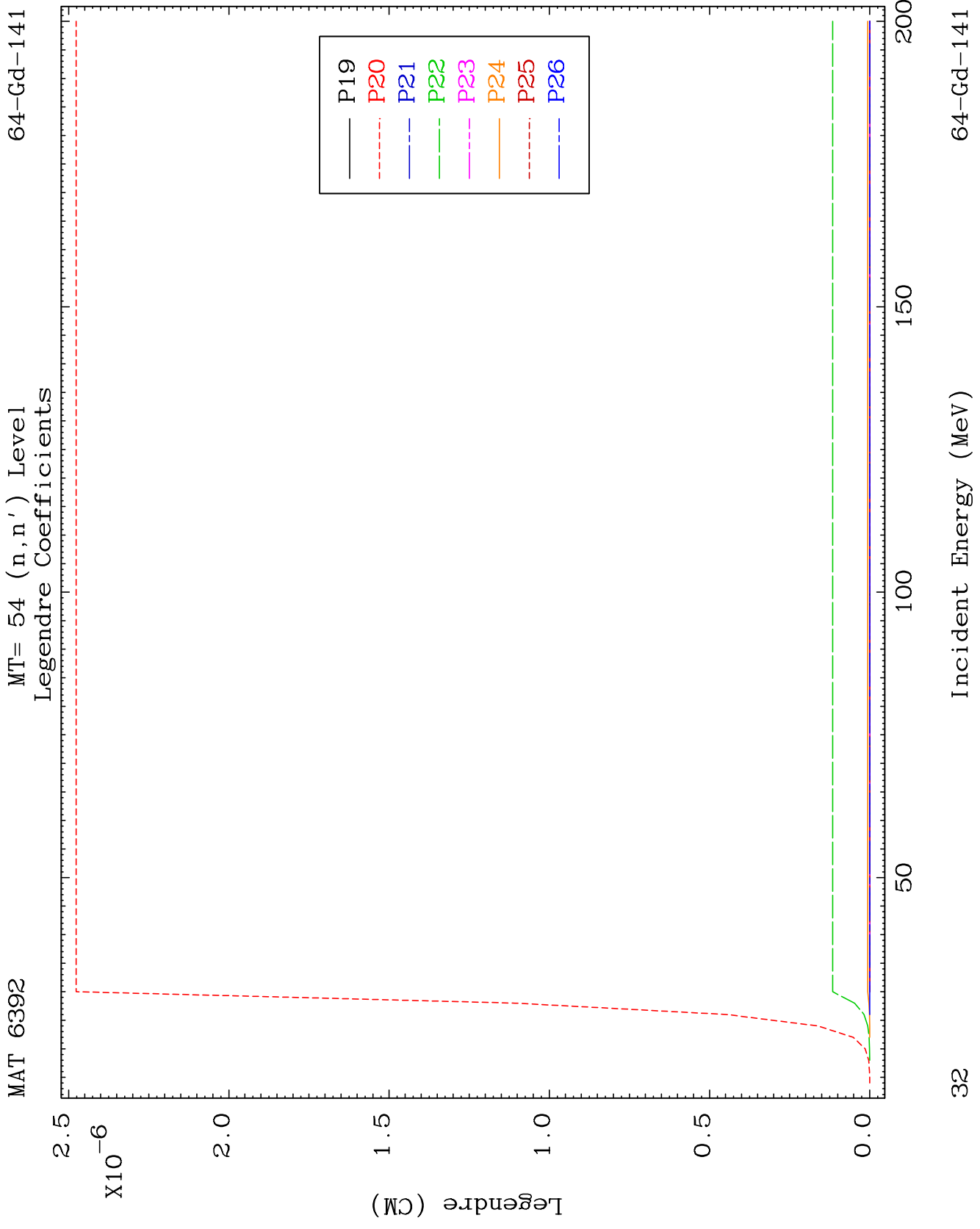
64-Gd-141



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64-Gd-141

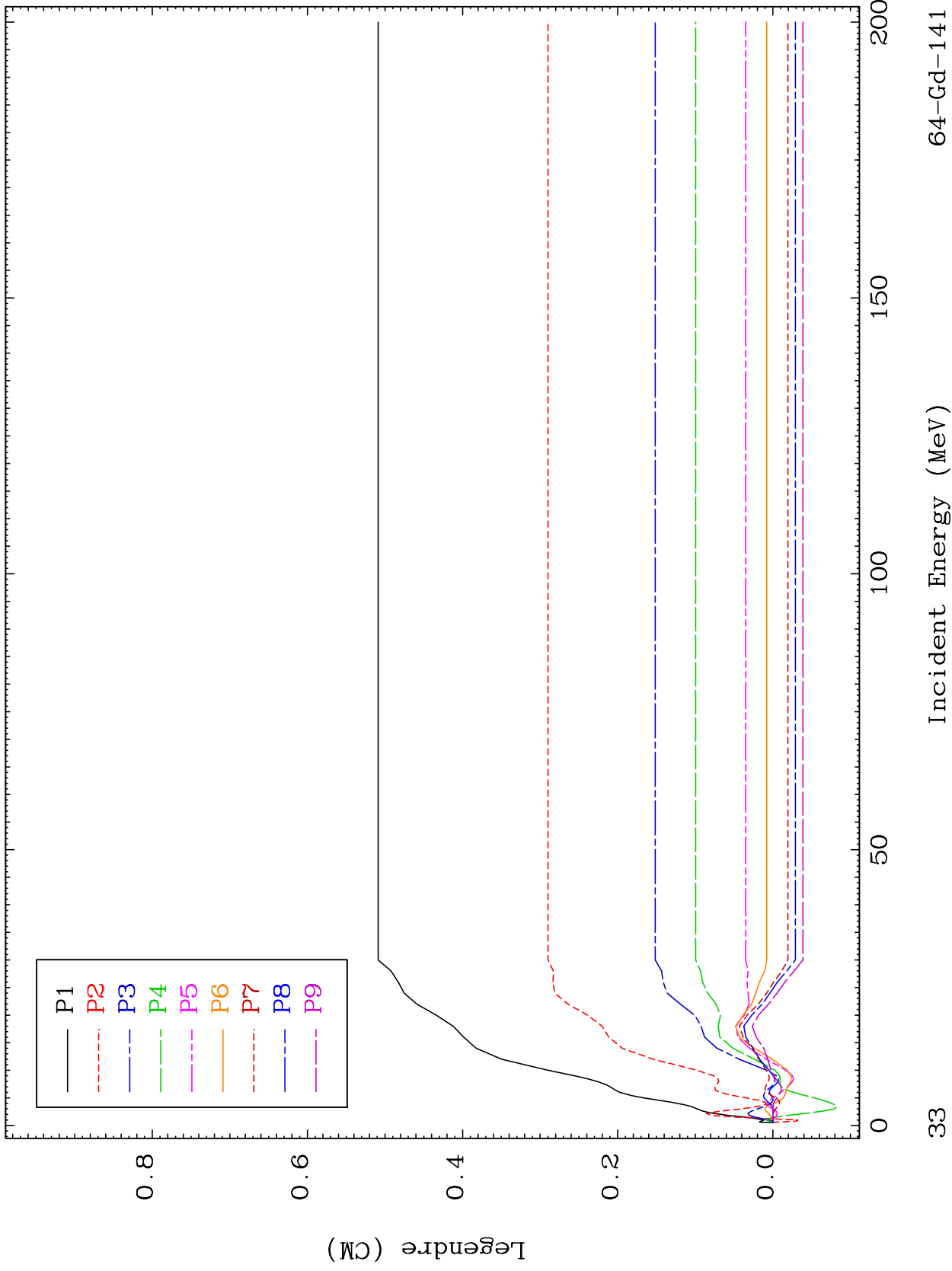




MAT 6392

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

64-Gd-141



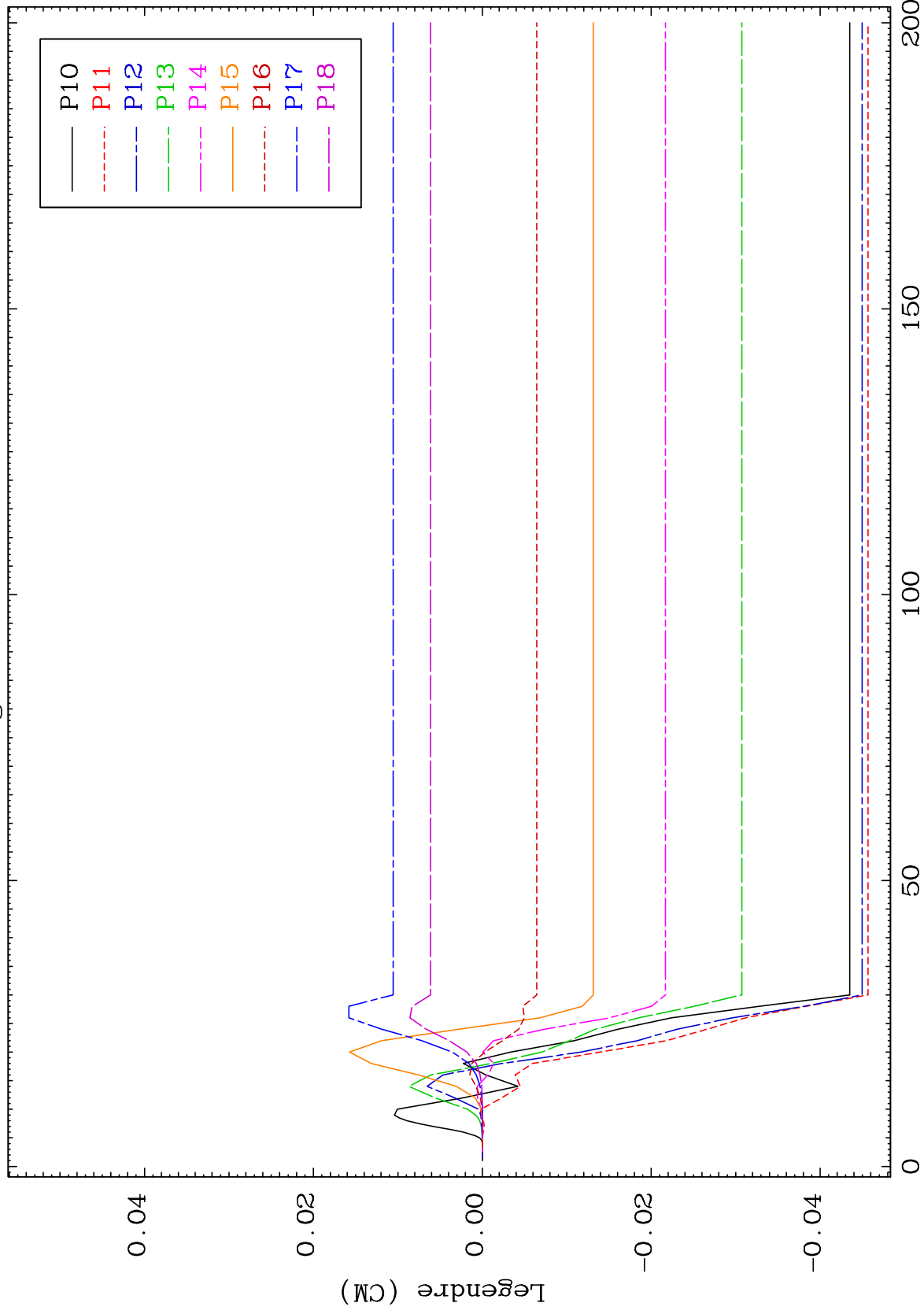
33

64-Gd-141

MAT 6392

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

64-Gd-141



34

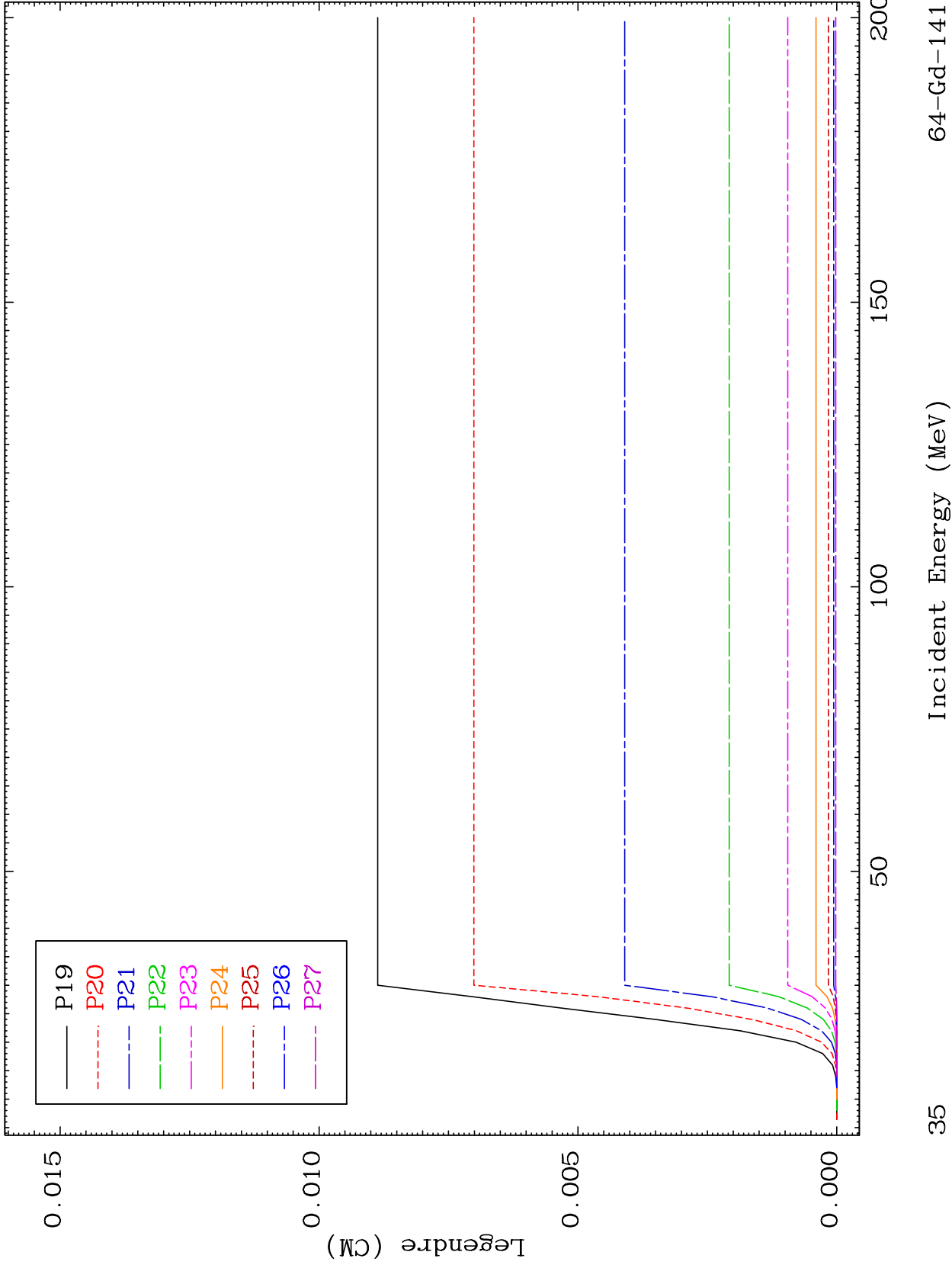
Incident Energy (MeV)

64-Gd-141

MAT 6392

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

64-Gd-141



35

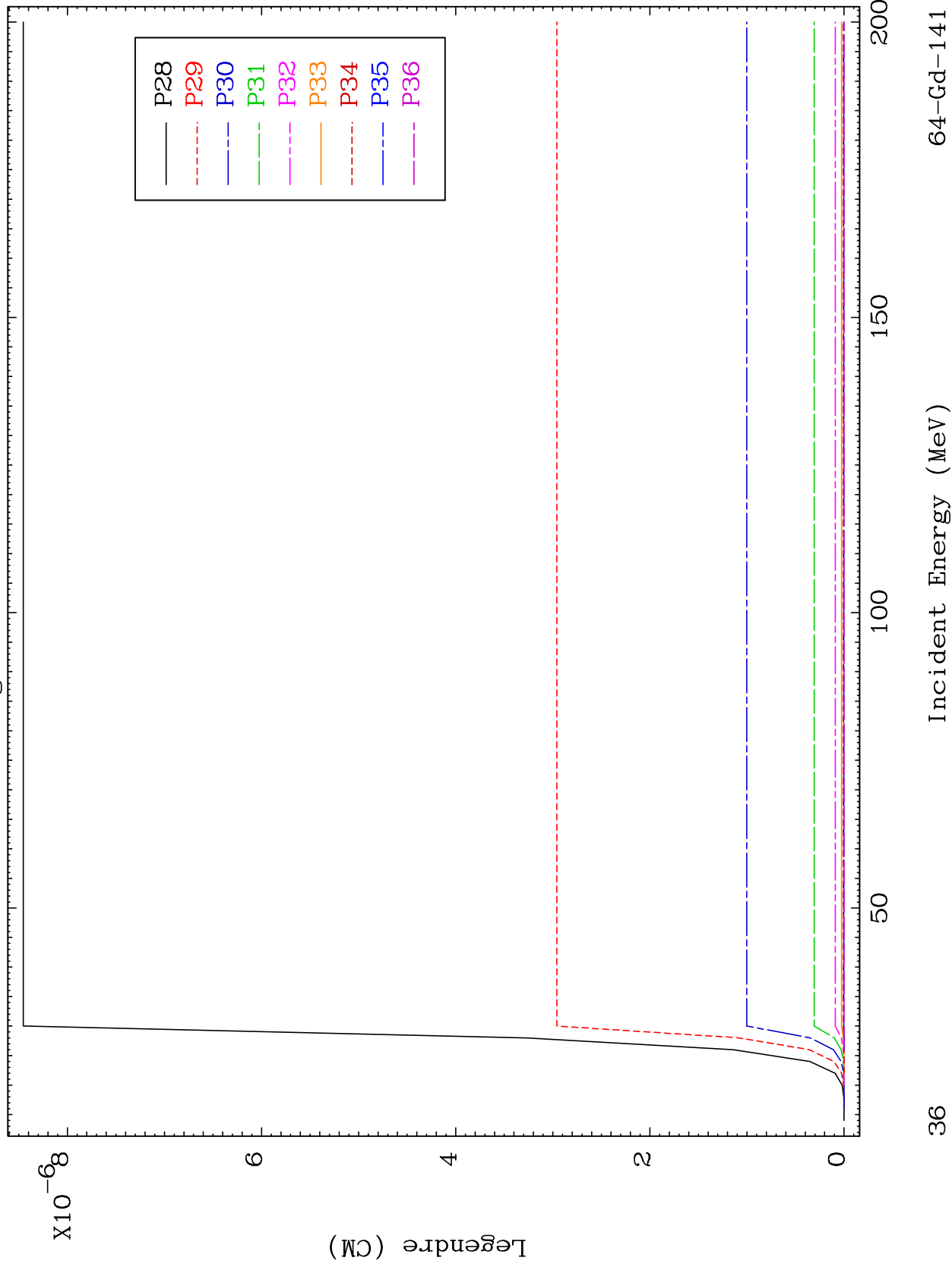
Incident Energy (MeV)

64-Gd-141

MAT 6392

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

64-Gd-141



36

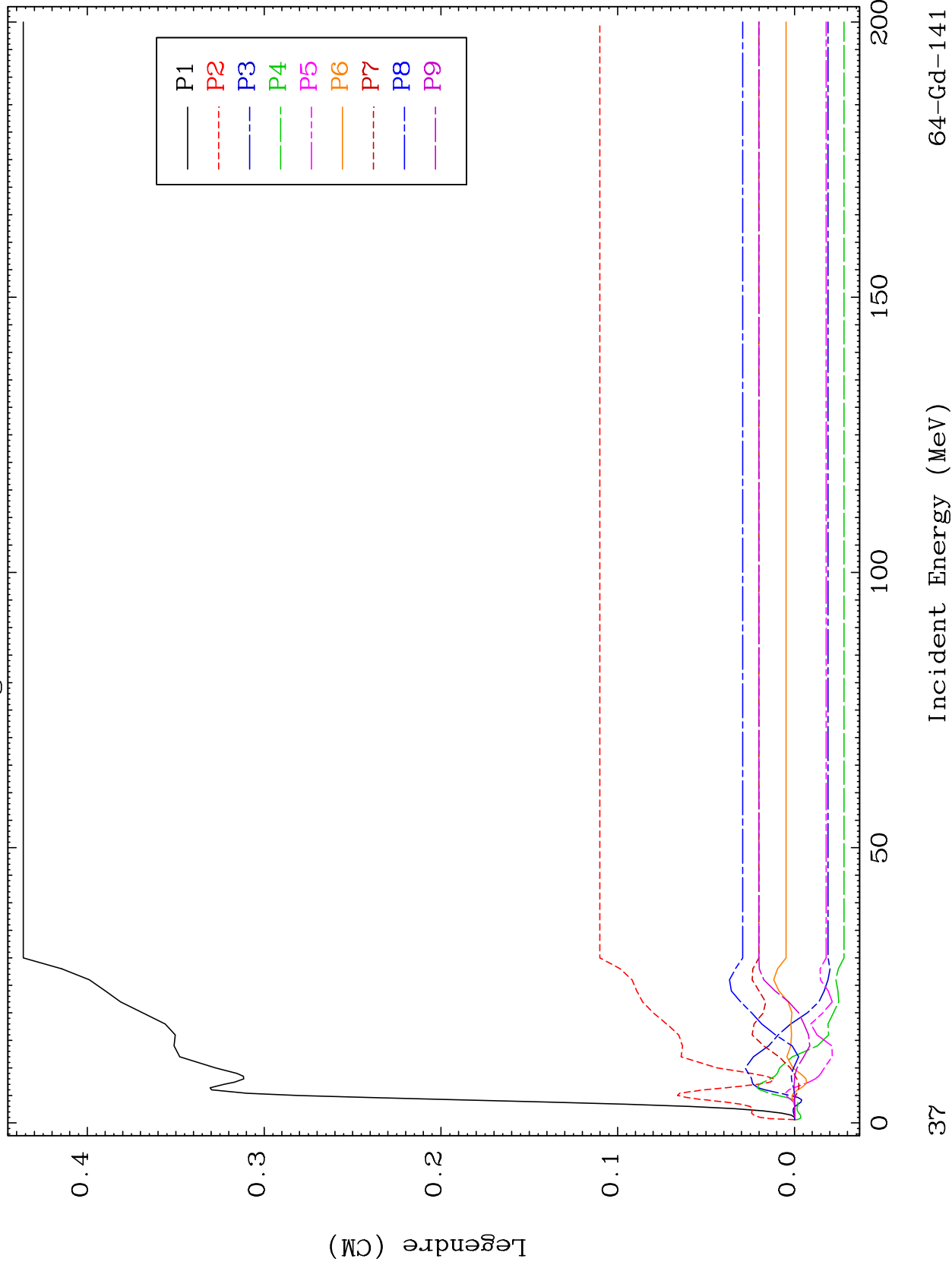
Incident Energy (MeV)

64-Gd-141

MAT 6392

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

64-Gd-141



64-Gd-141

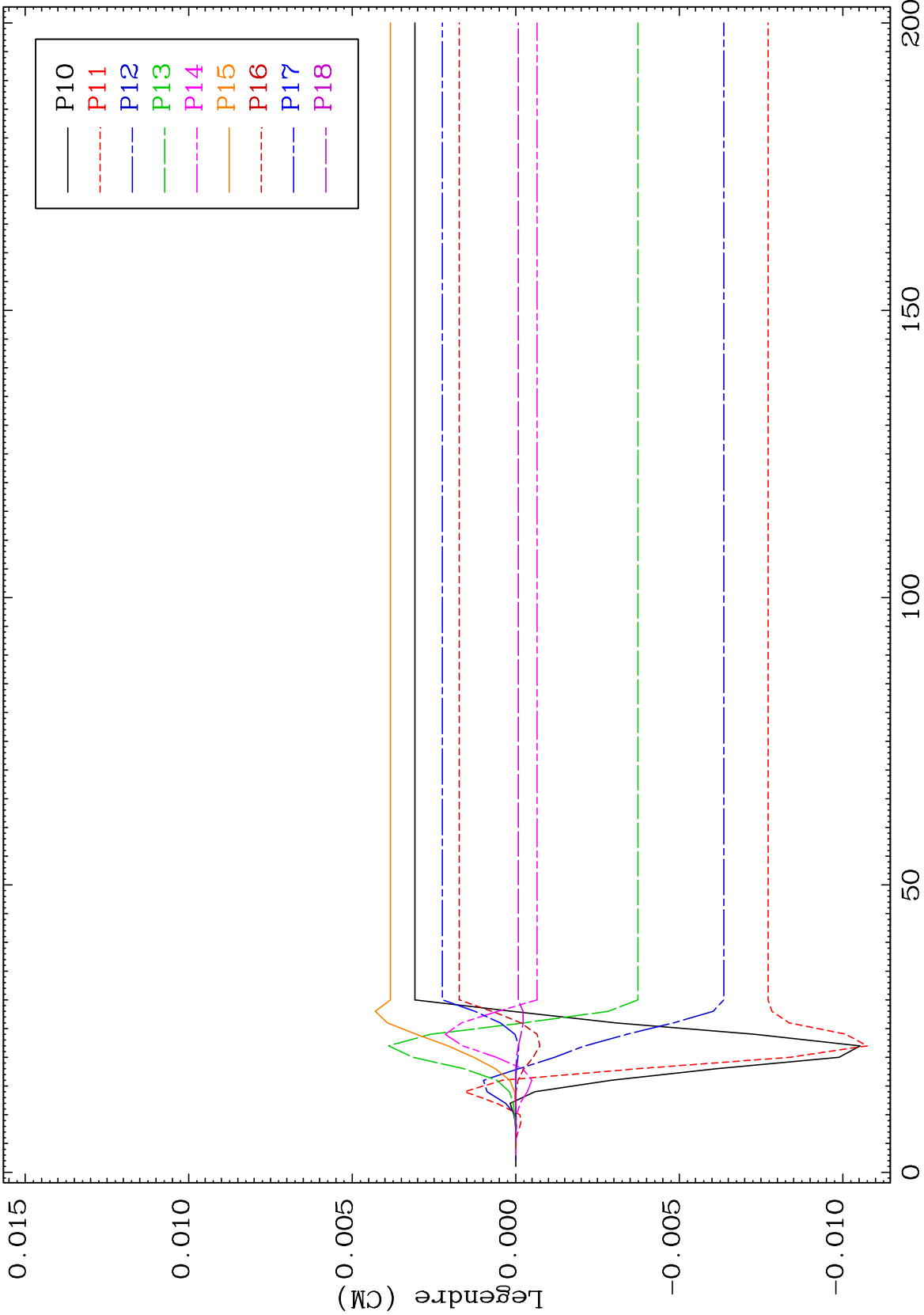
Incident Energy (MeV)

37

MAT 6392

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

64-Gd-141



38

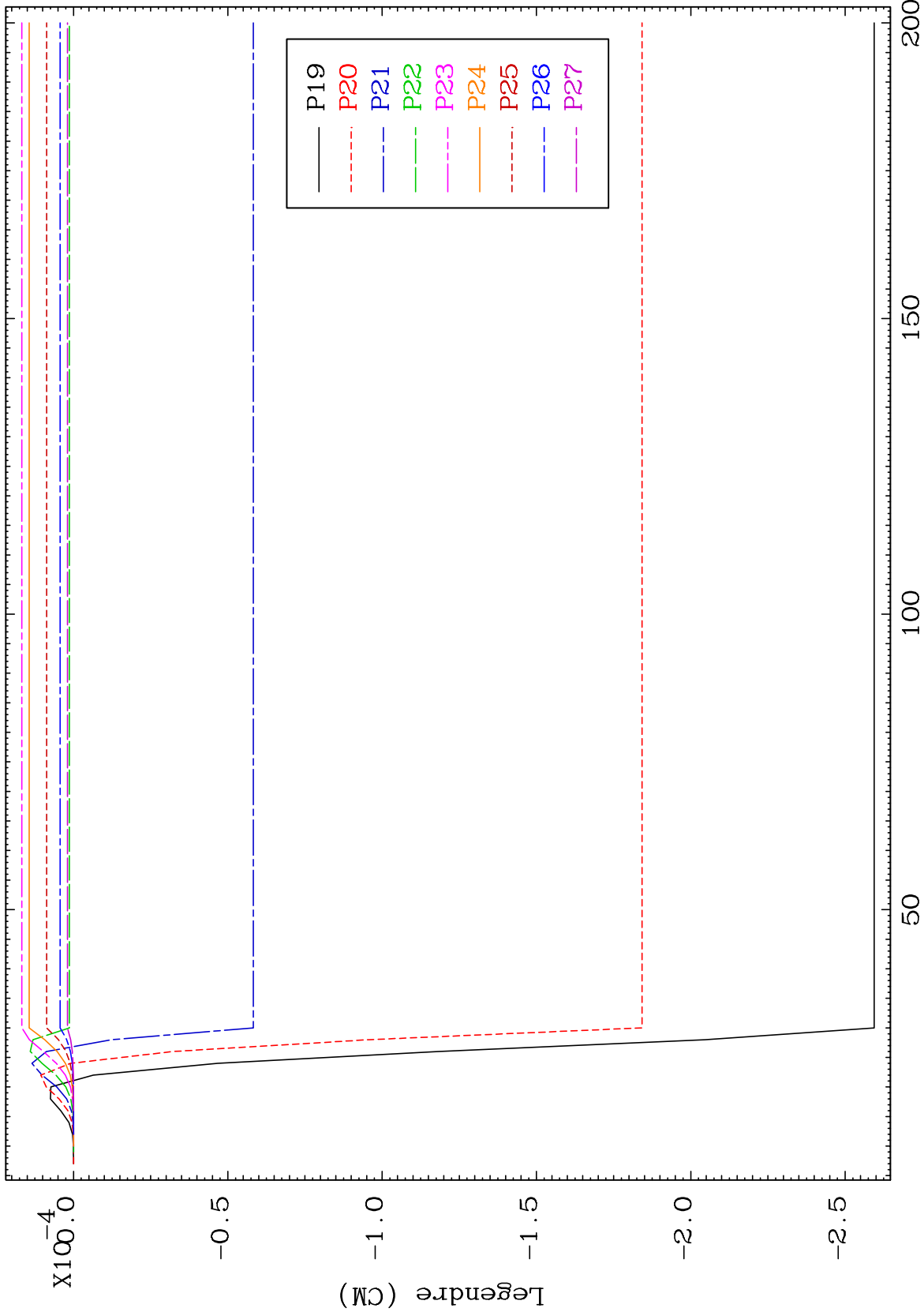
Incident Energy (MeV)

64-Gd-141

MAT 6392

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

64-Gd-141

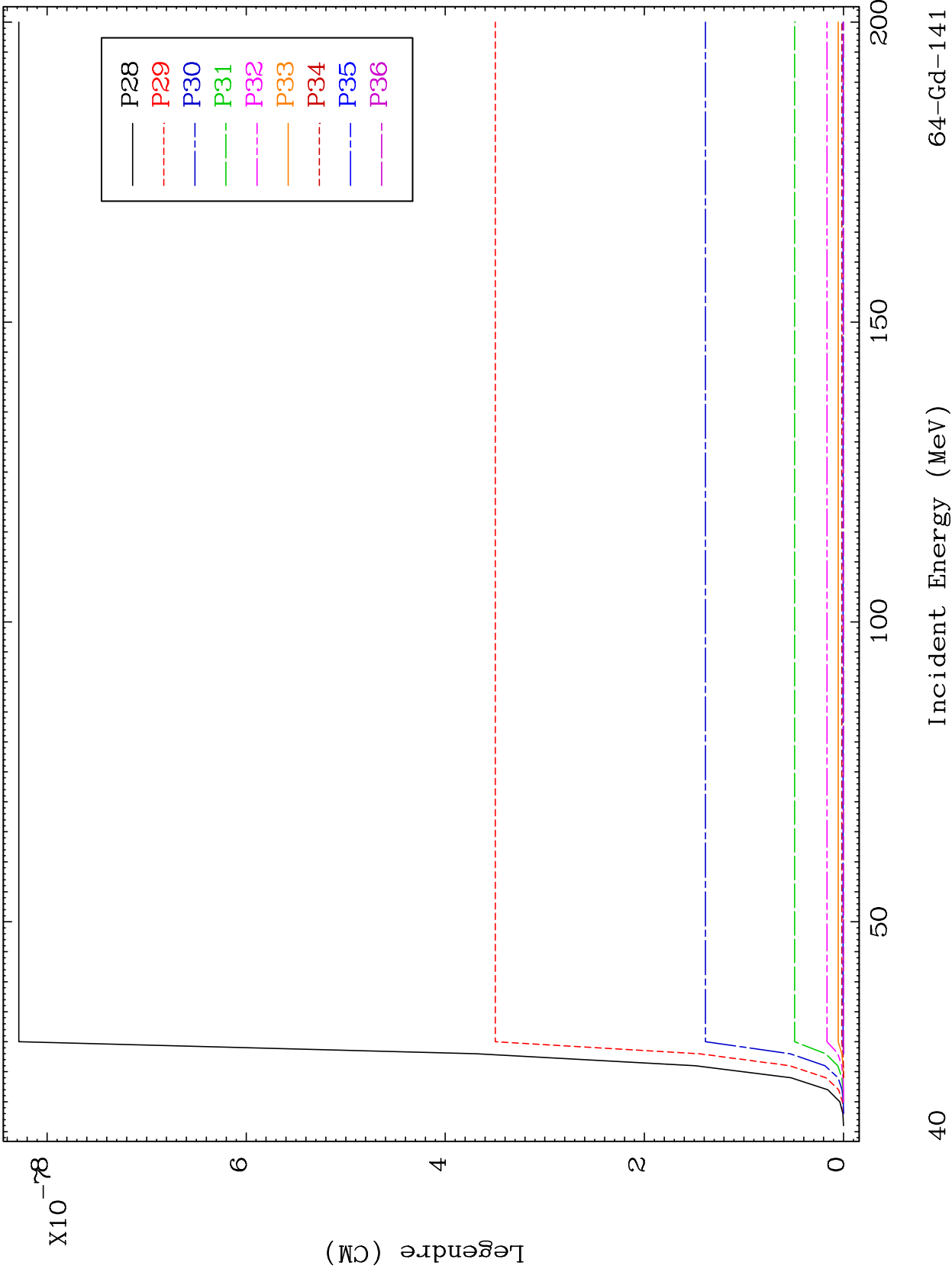




MAT 6392

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

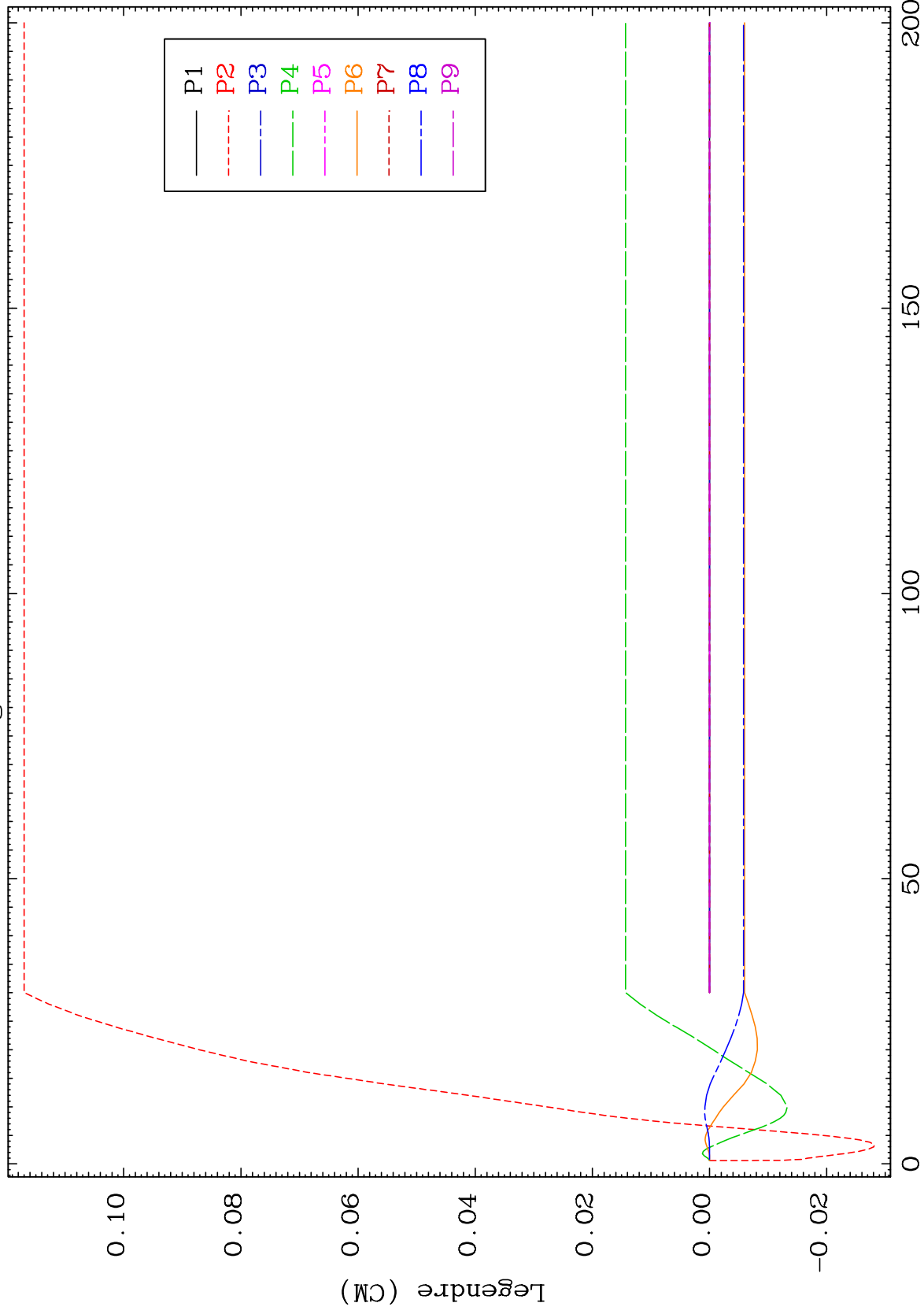
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MAT 6392

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

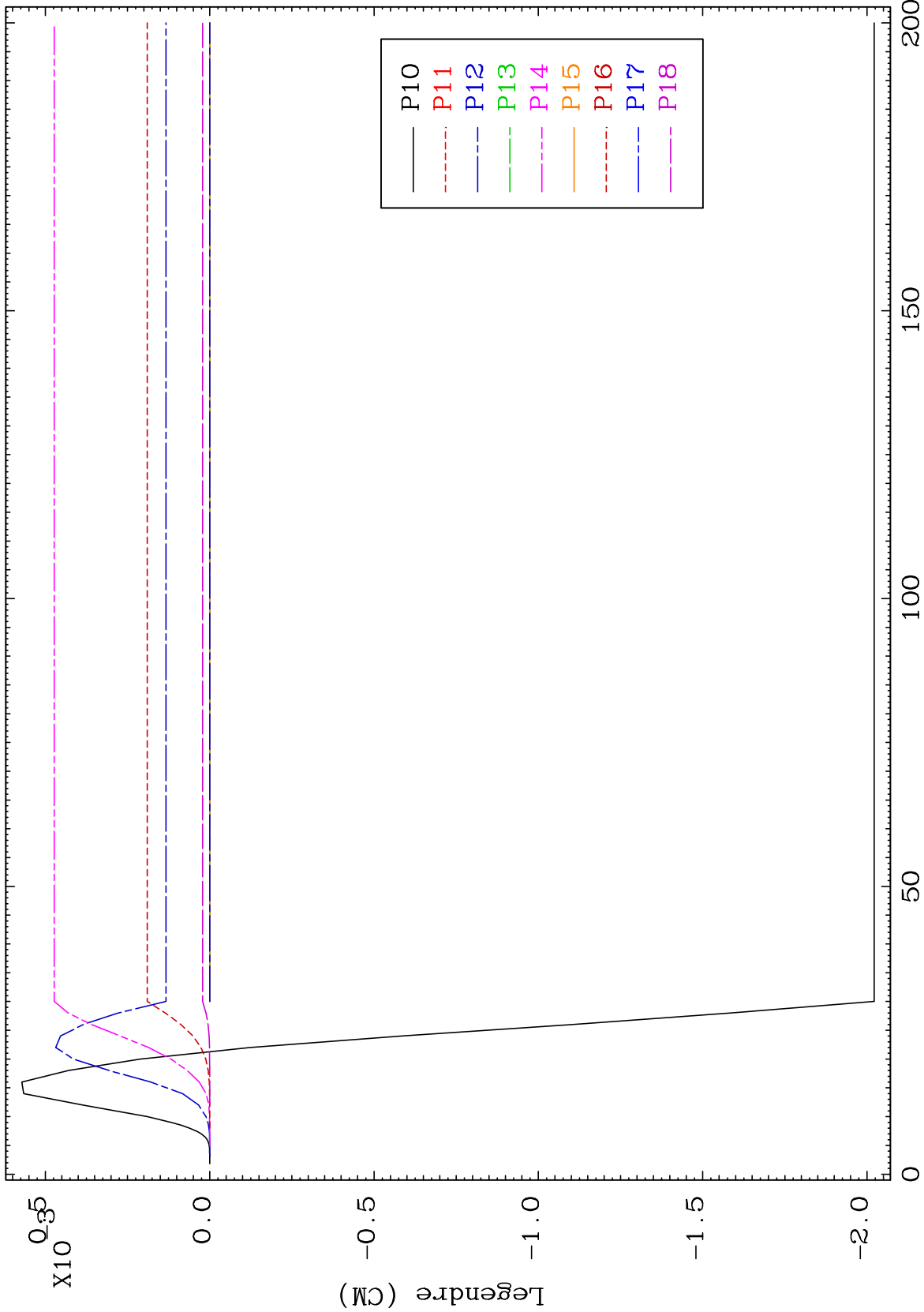
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41

Incident Energy (MeV)

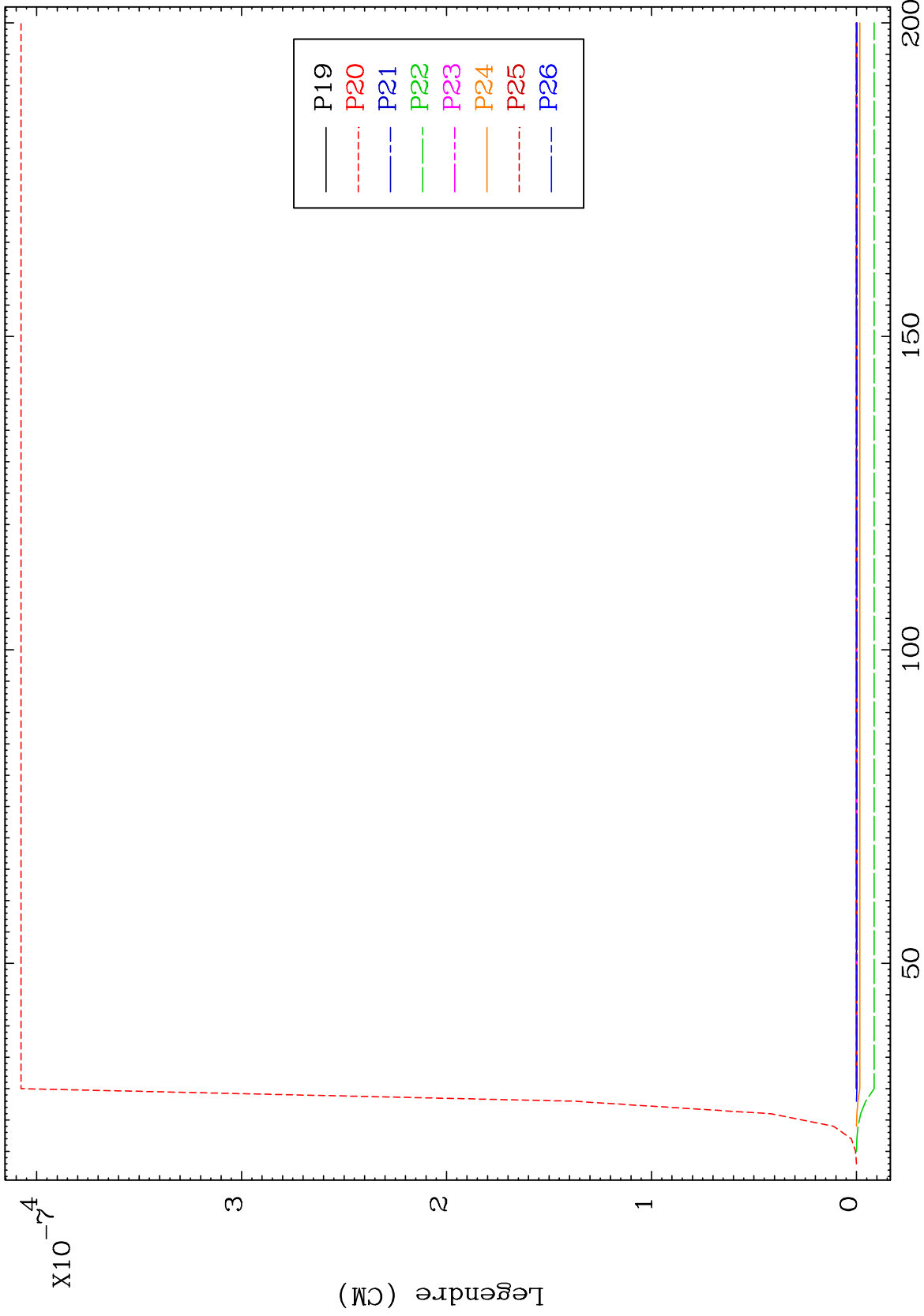
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MAT 6392

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

64-Gd-141



43

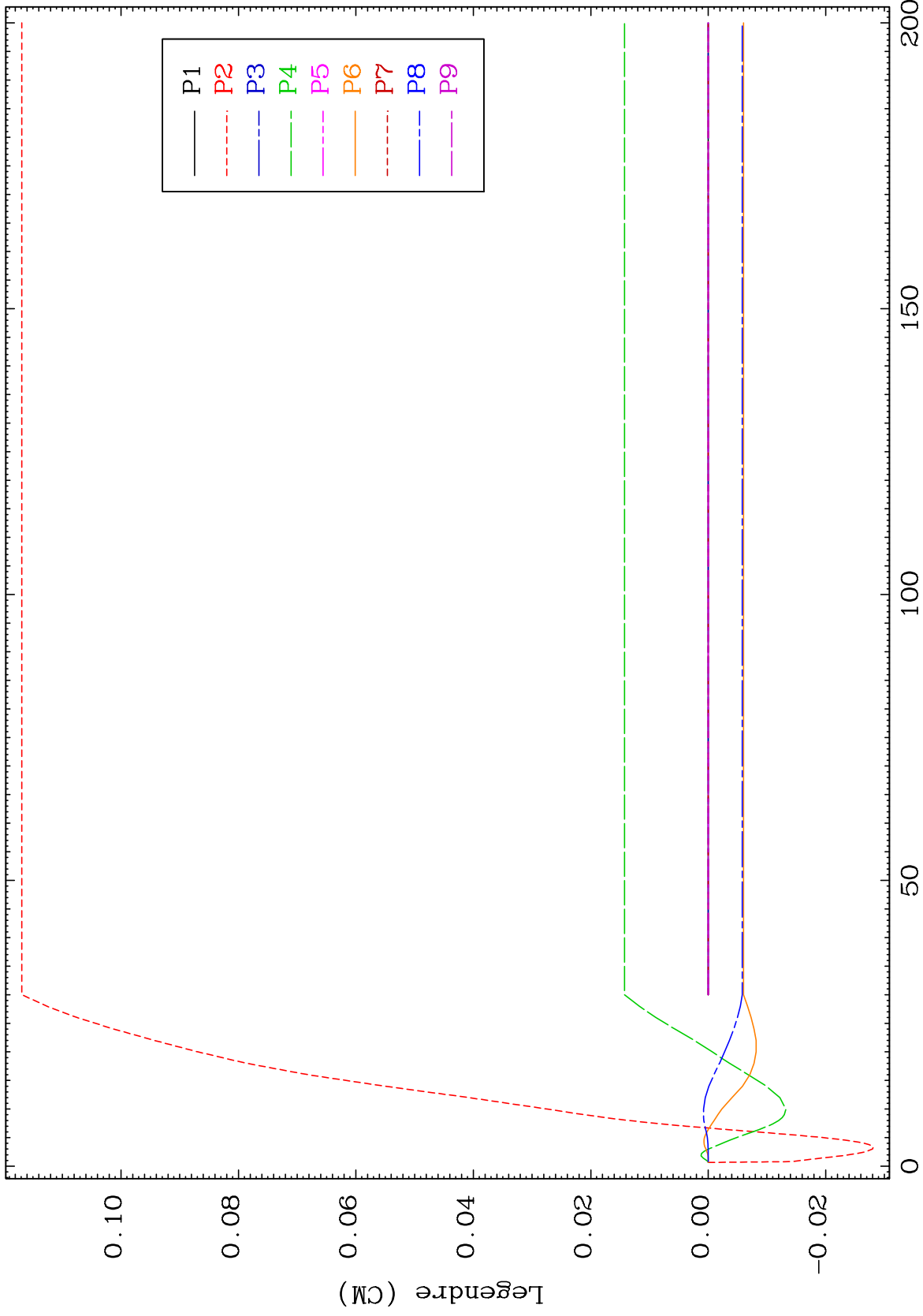
Incident Energy (MeV)

64-Gd-141

MAT 6392

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

64-Gd-141



44

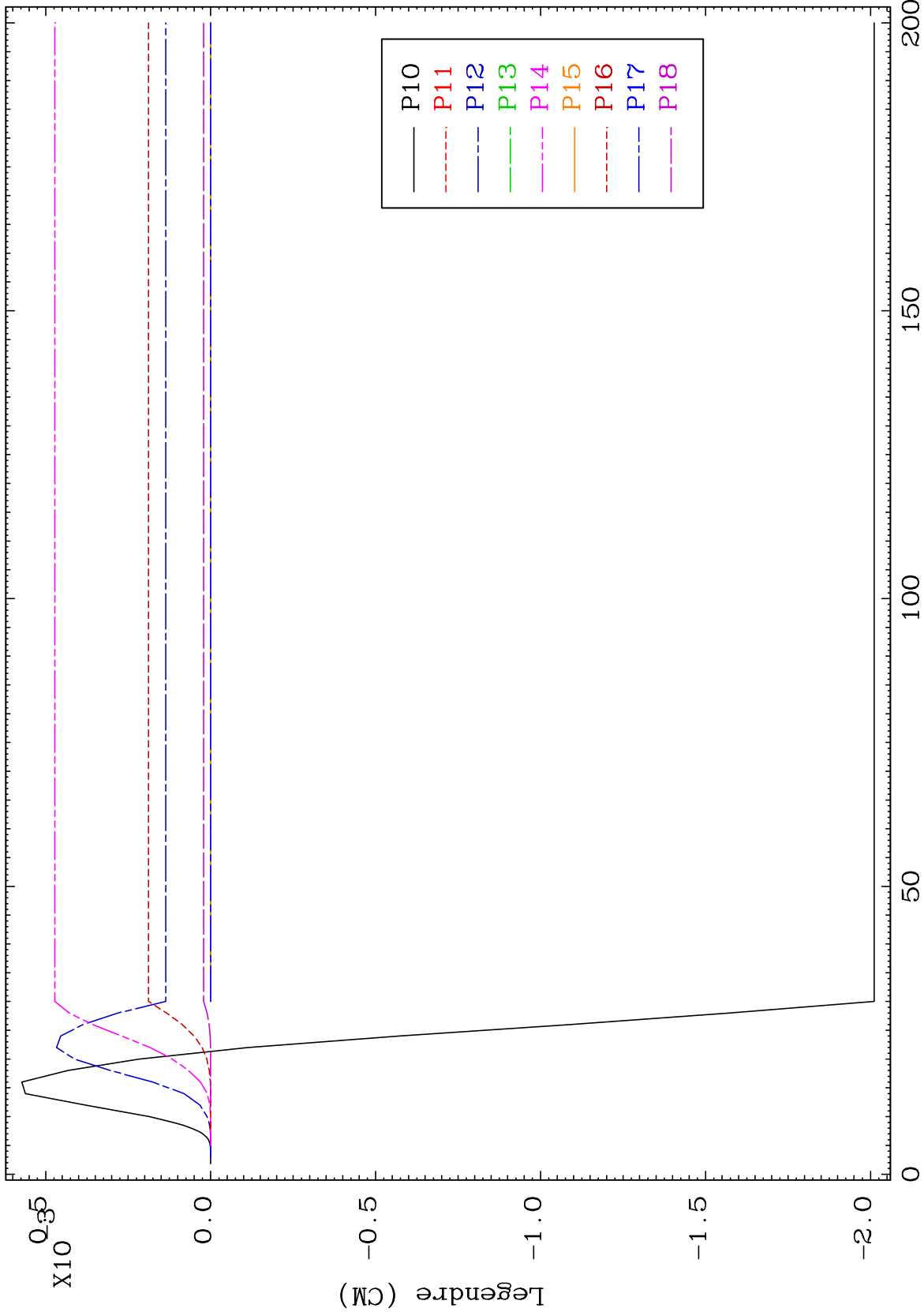
Incident Energy (MeV)

64-Gd-141

MAT 6392

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

64-Gd-141



45

Incident Energy (MeV)

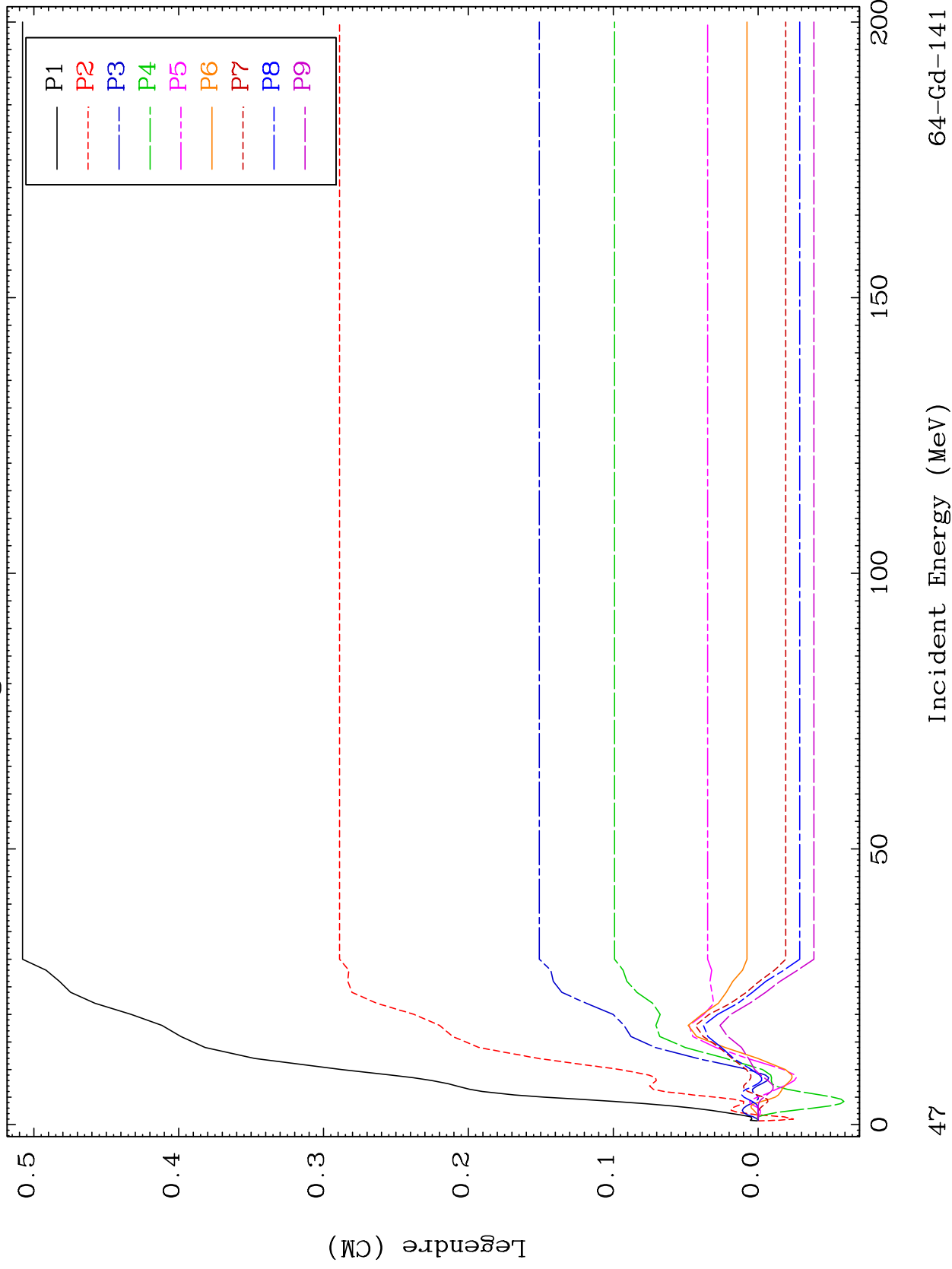
64-Gd-141



MAT 6392

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

64-Gd-141

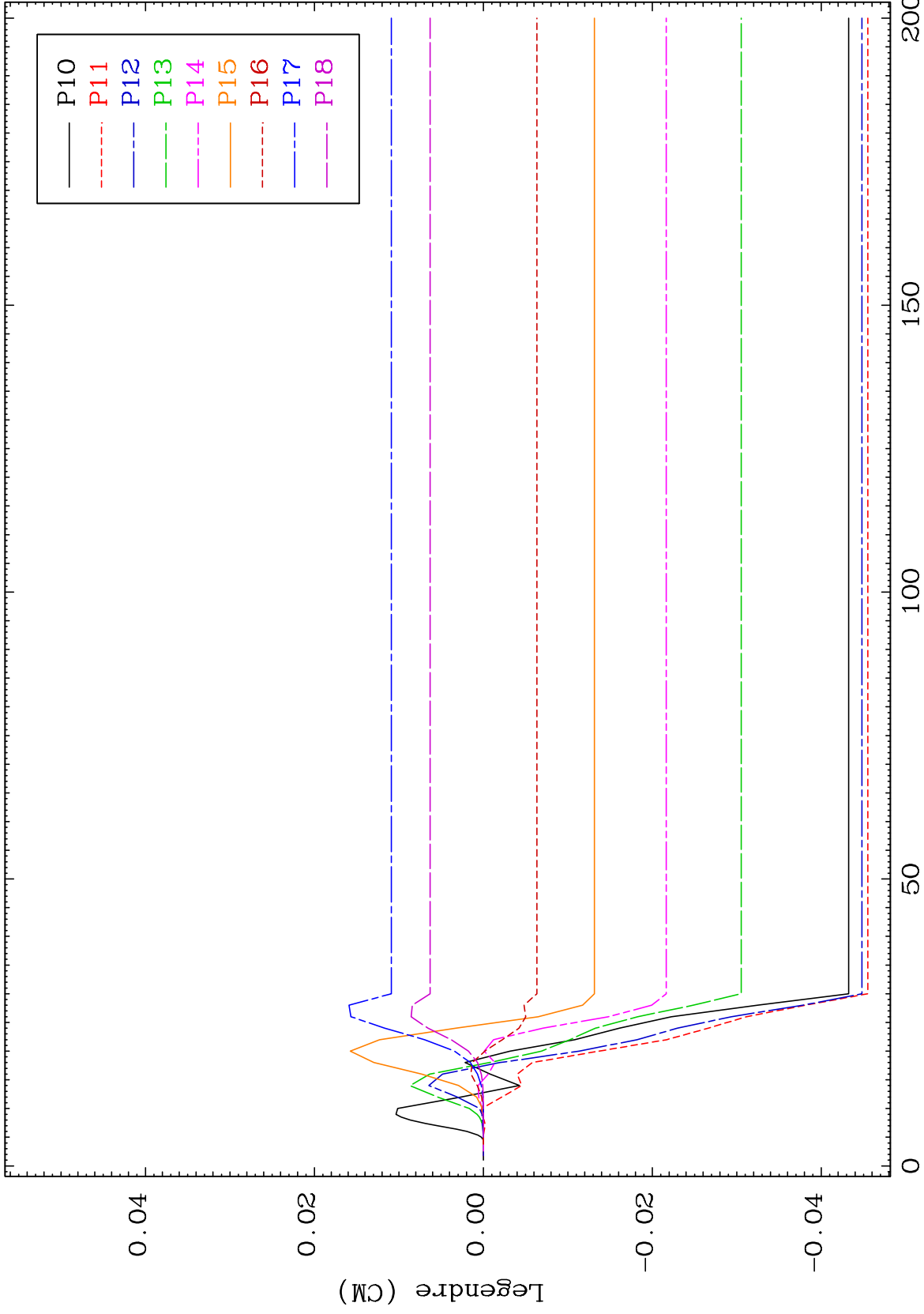




MAT 6392

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

64-Gd-141



48

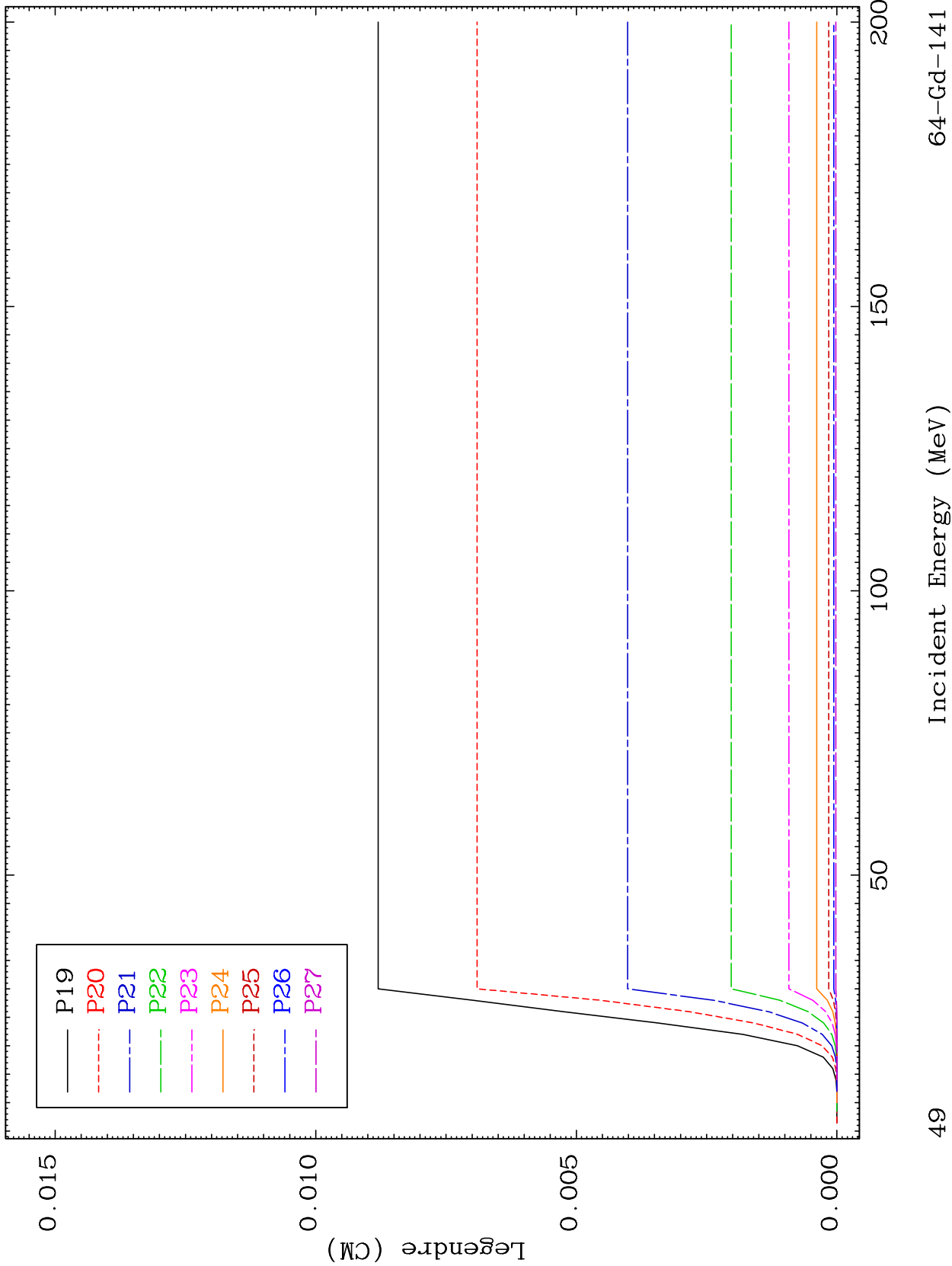
Incident Energy (MeV)

64-Gd-141

MAT 6392

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

64-Gd-141



49

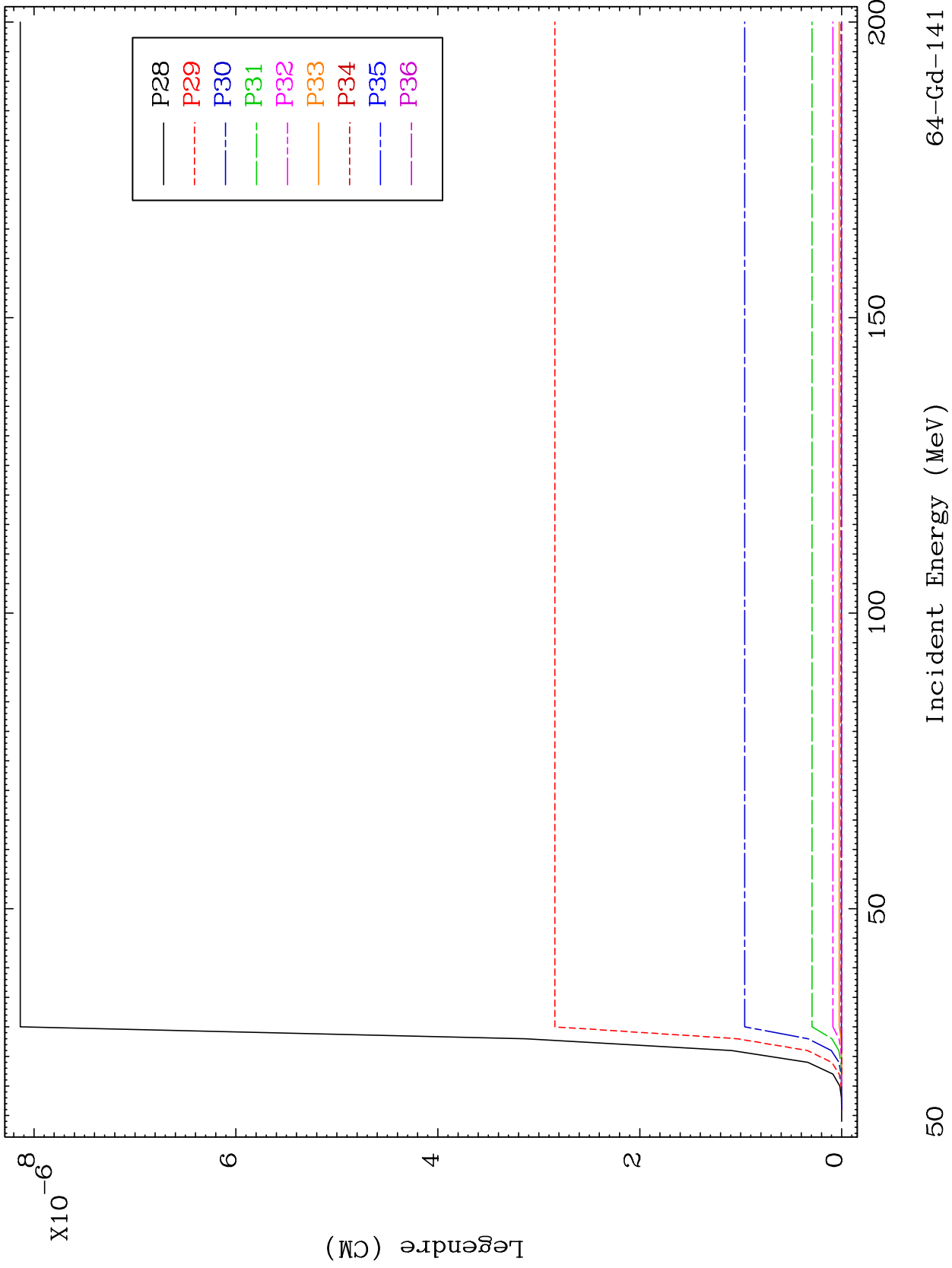
Incident Energy (MeV)

64-Gd-141

MAT 6392

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

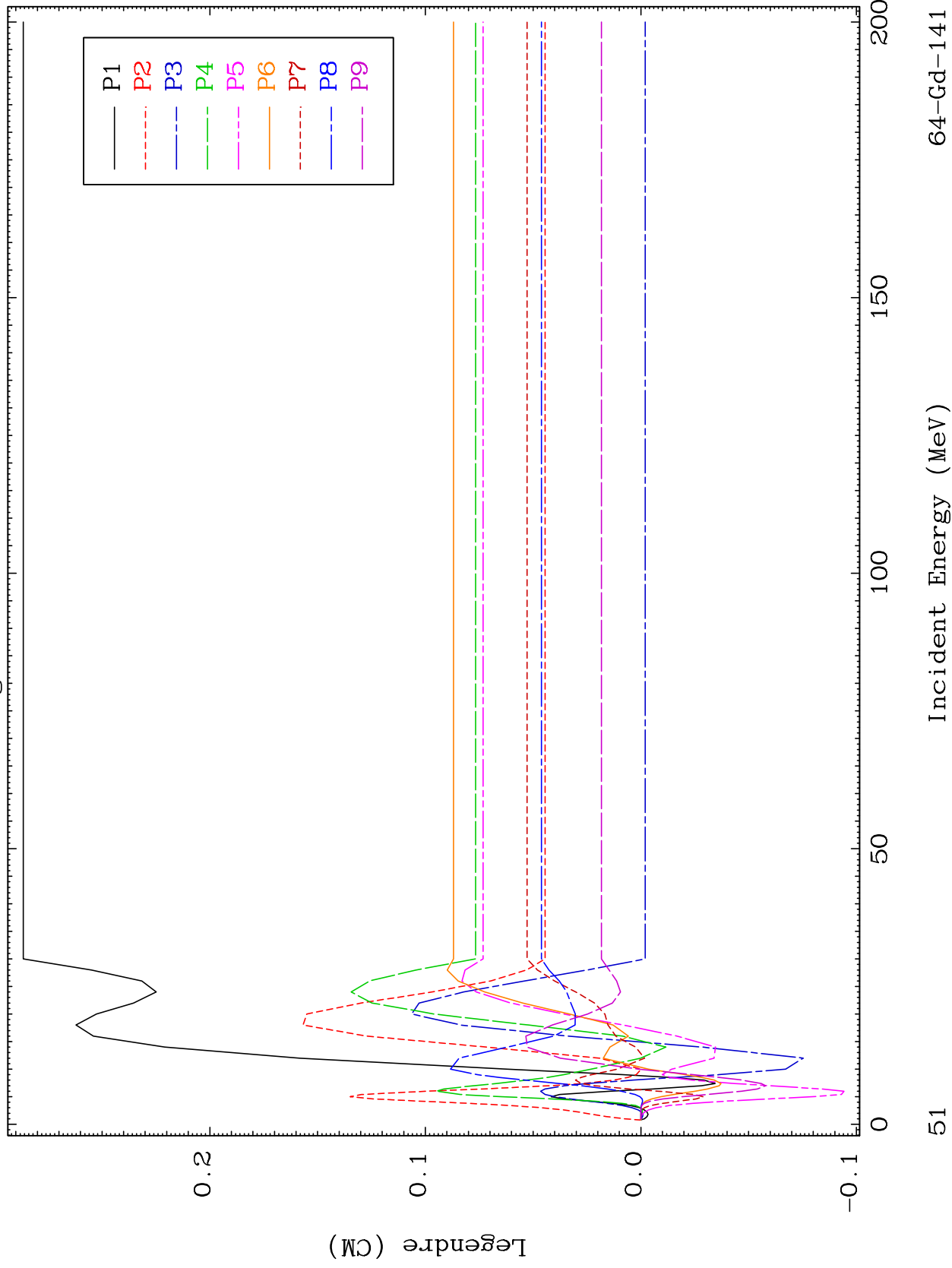
64-Gd-141



MAT 6392

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

64-Gd-141



64-Gd-141

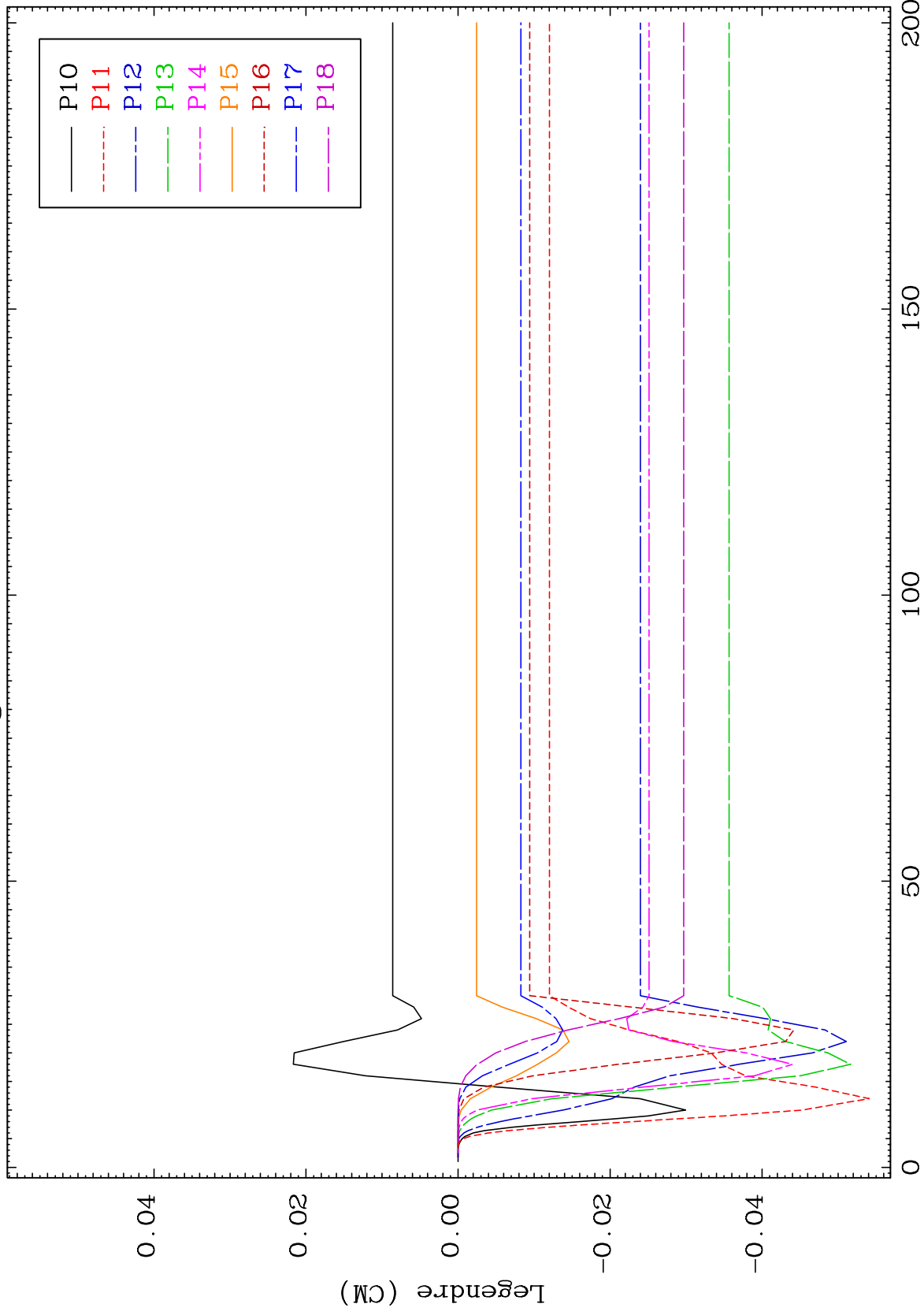
Incident Energy (MeV)

51

MAT 6392

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

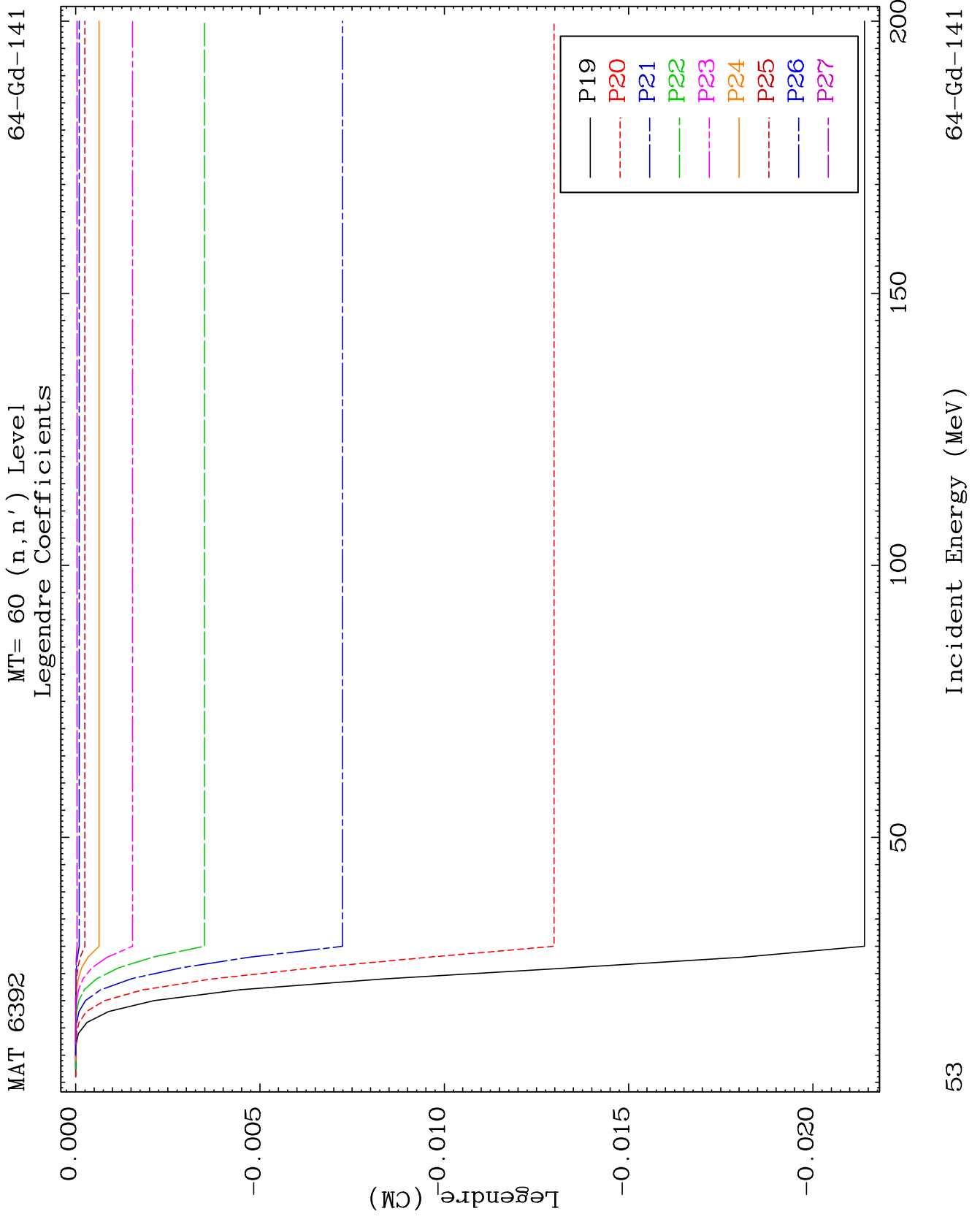
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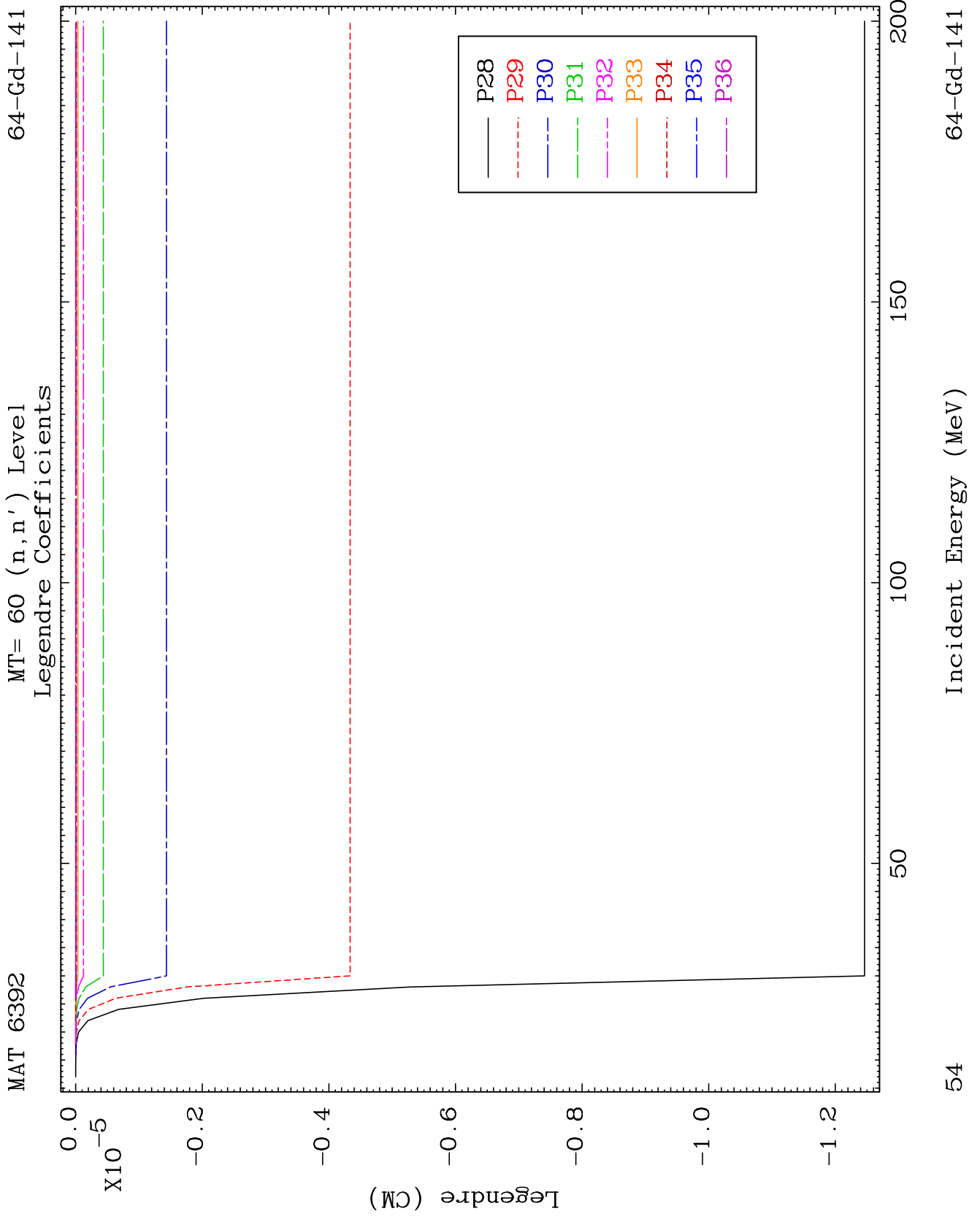


52

Incident Energy (MeV)

64-Gd-141

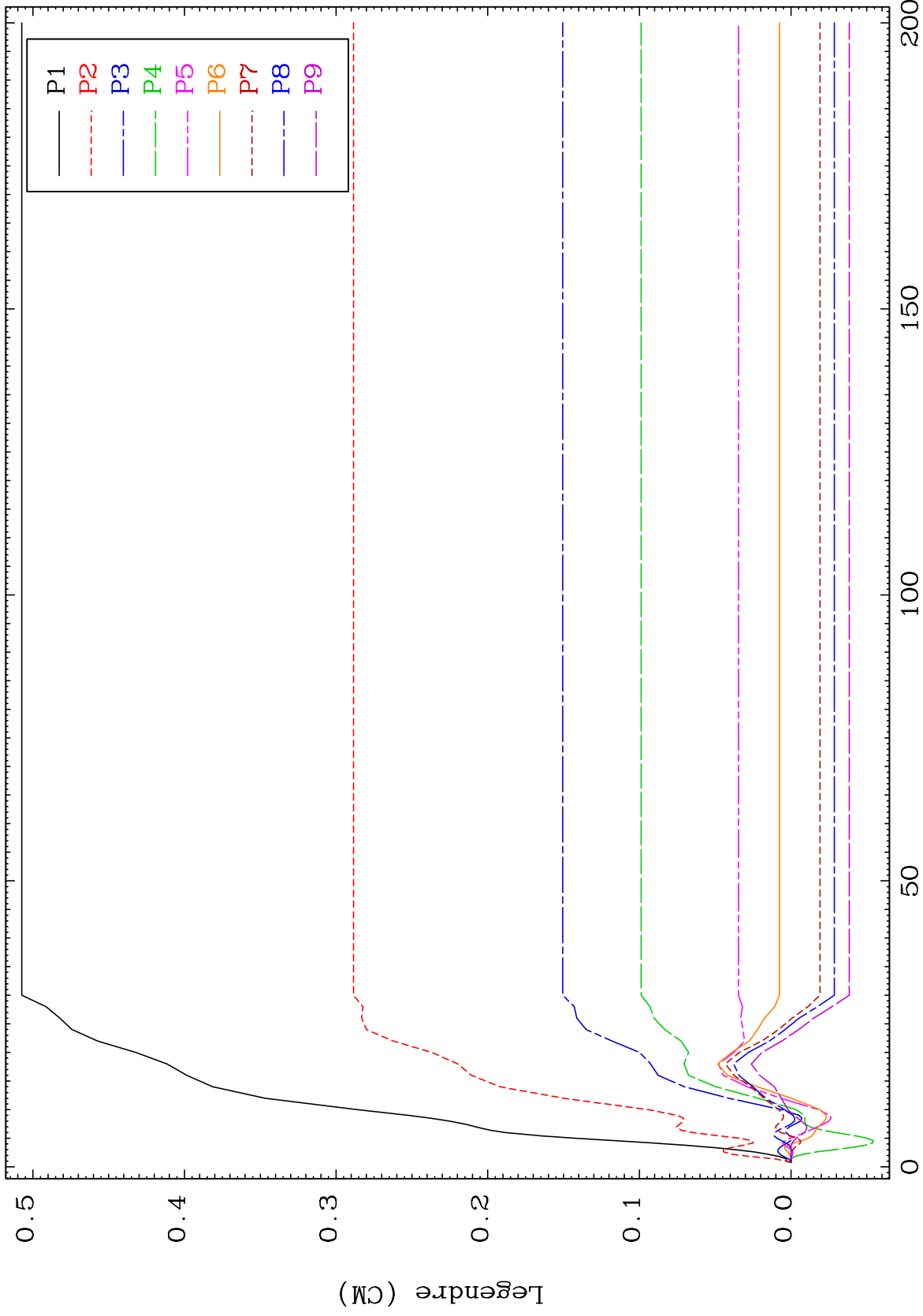




MAT 6392

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

64-Gd-141



64-Gd-141

Incident Energy (MeV)

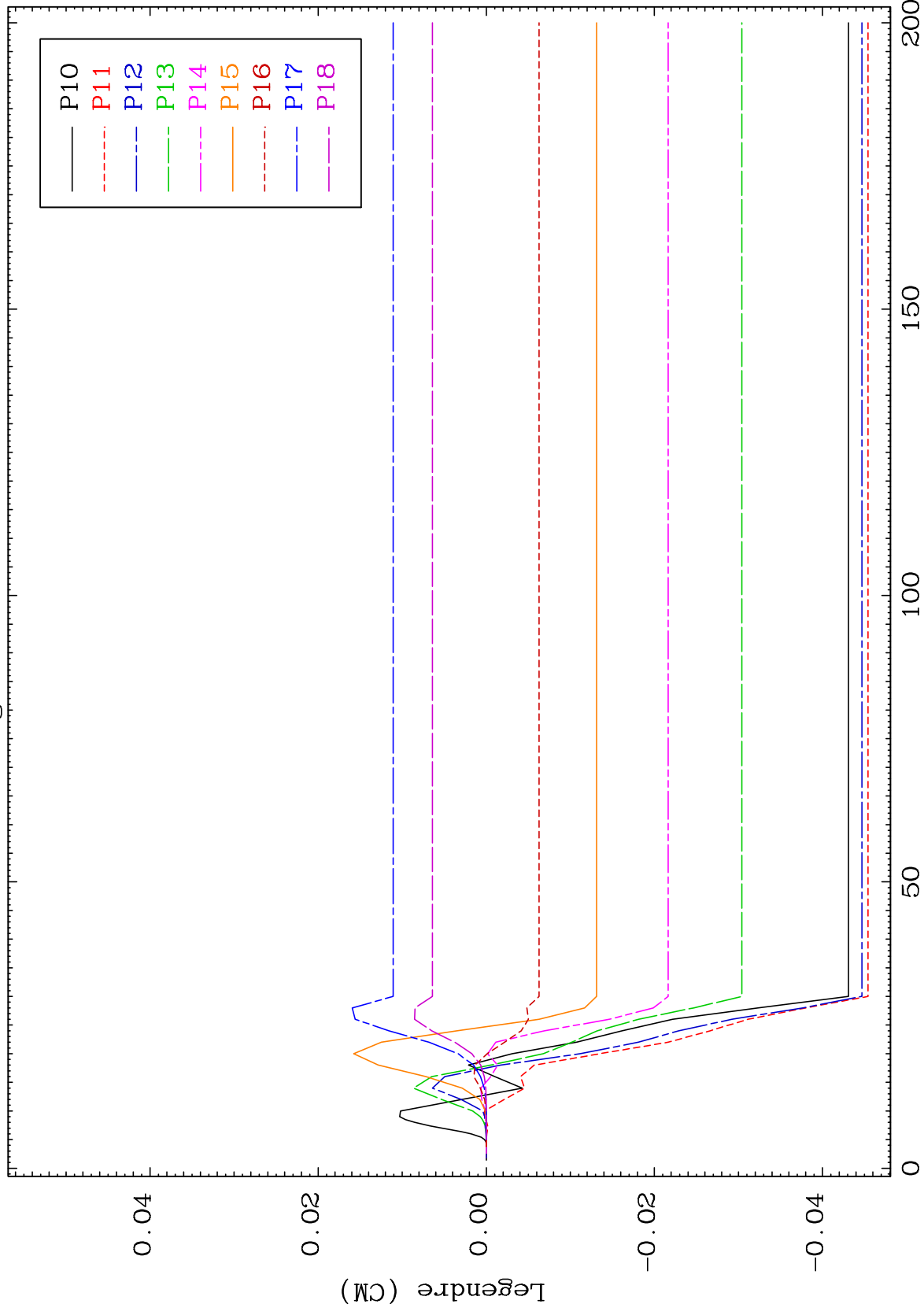
55



MAT 6392

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

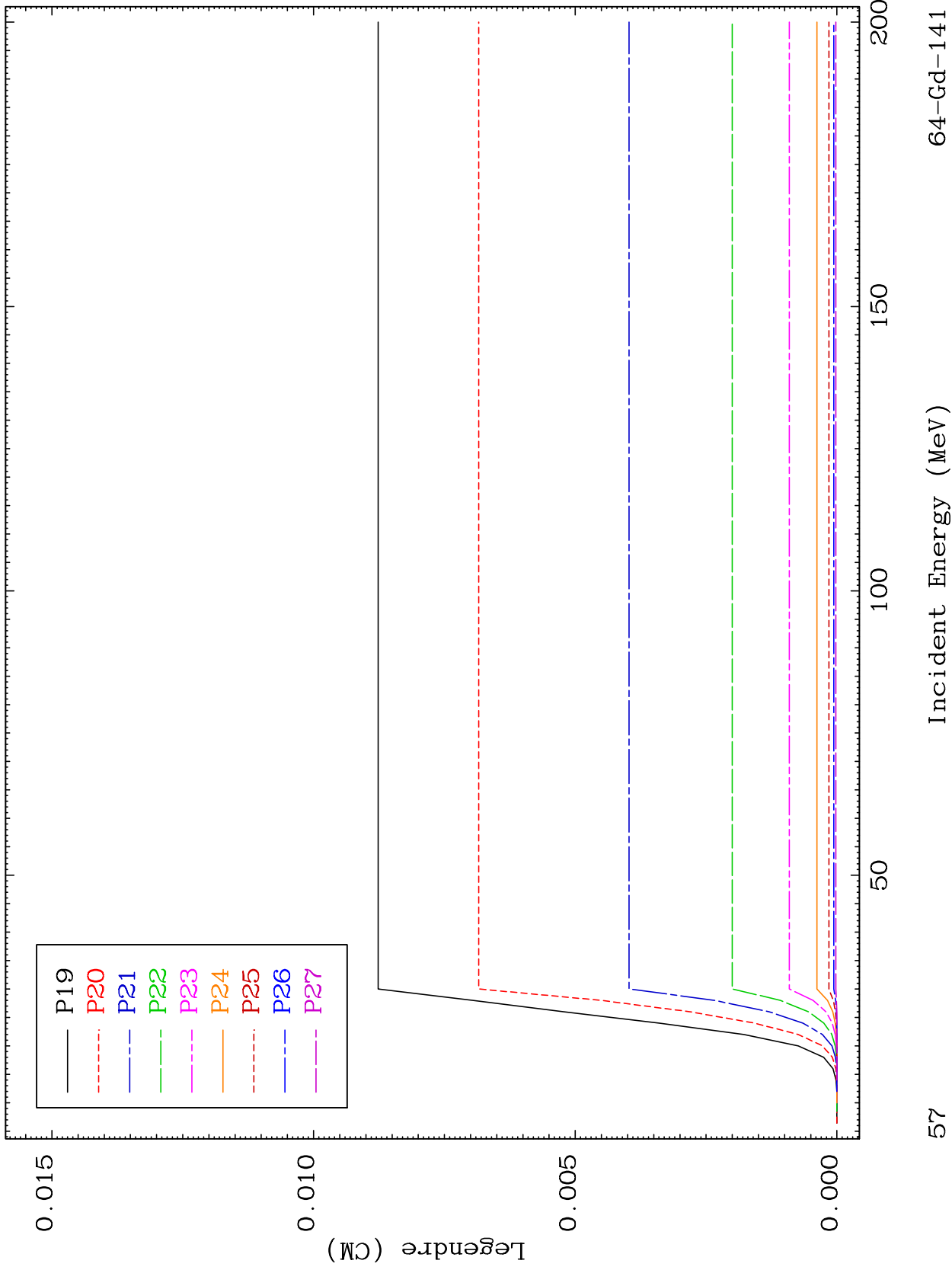
64-Gd-141



56

Incident Energy (MeV)

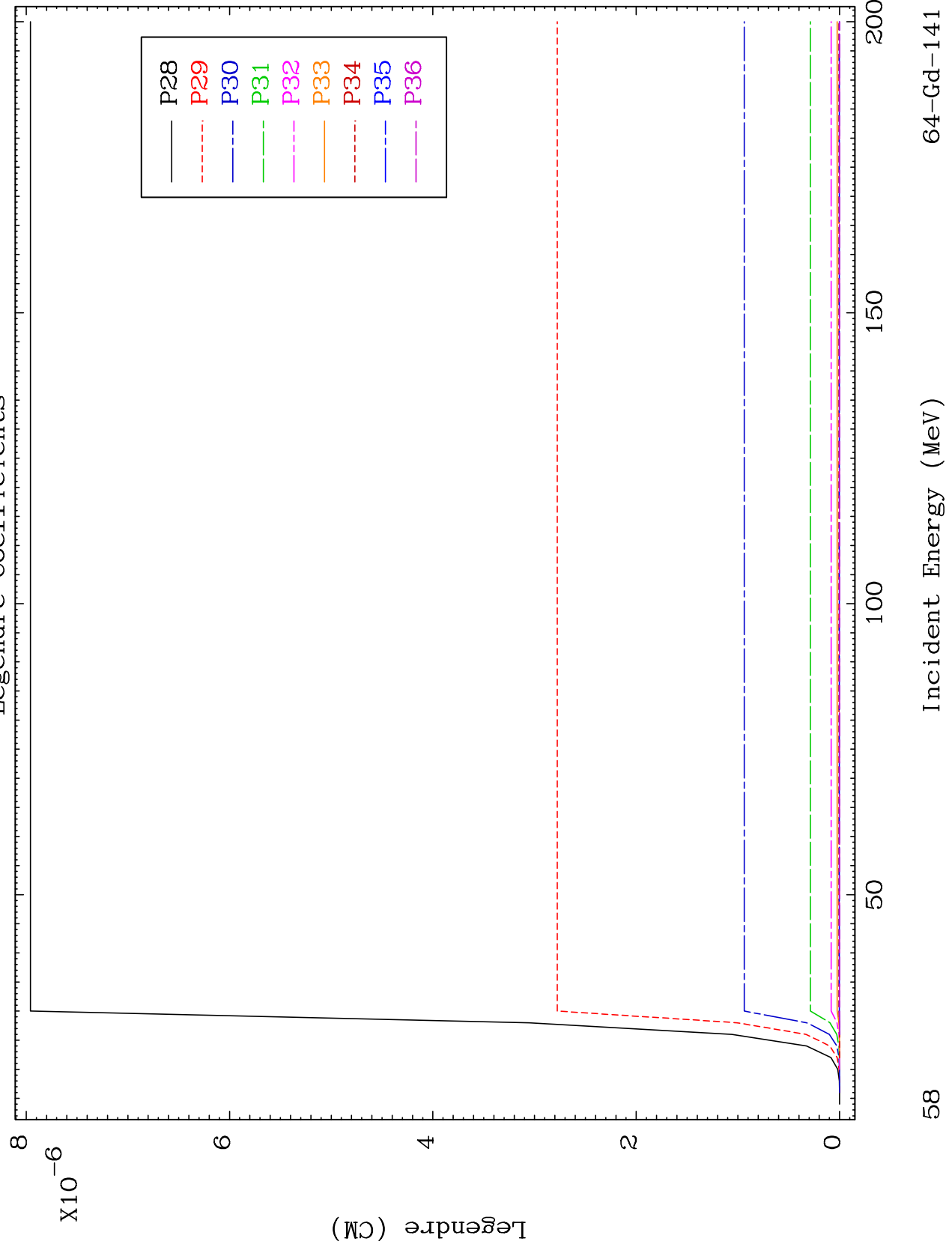
64-Gd-141



MAT 6392

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

64-Gd-141



58

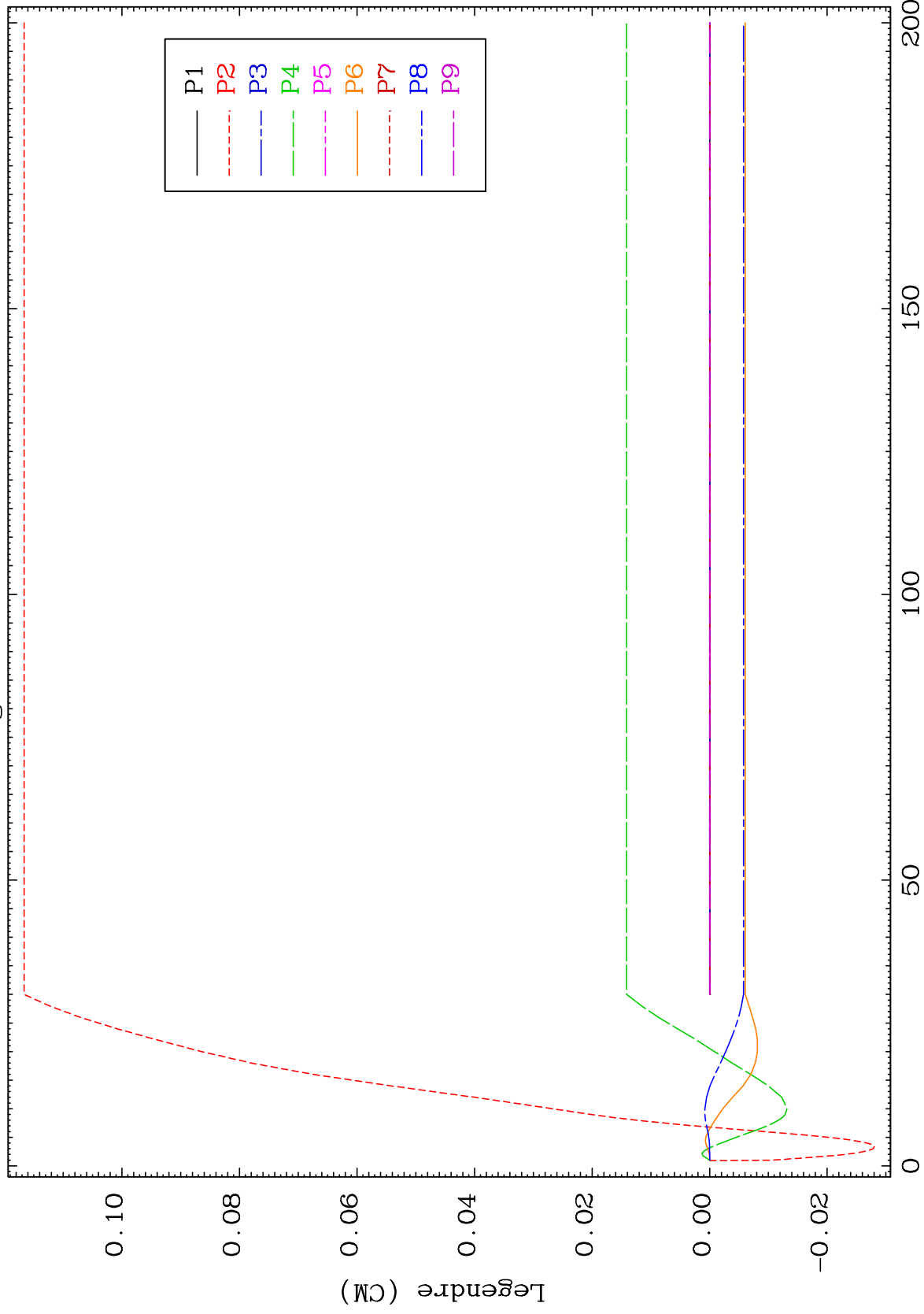
Incident Energy (MeV)

64-Gd-141

MAT 6392

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

64-Gd-141



64-Gd-141

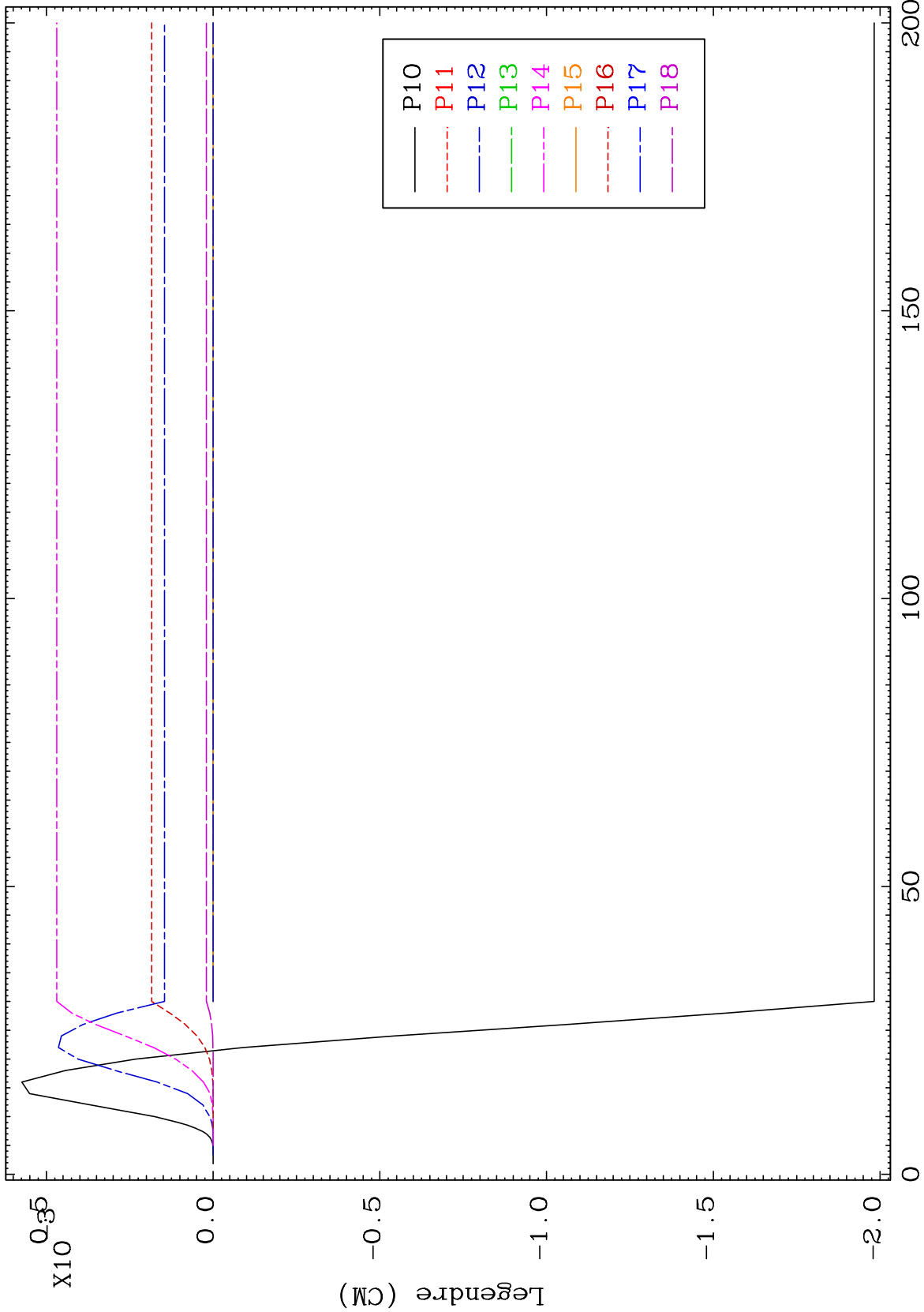
Incident Energy (MeV)

59

MAT 6392

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

64-Gd-141



60

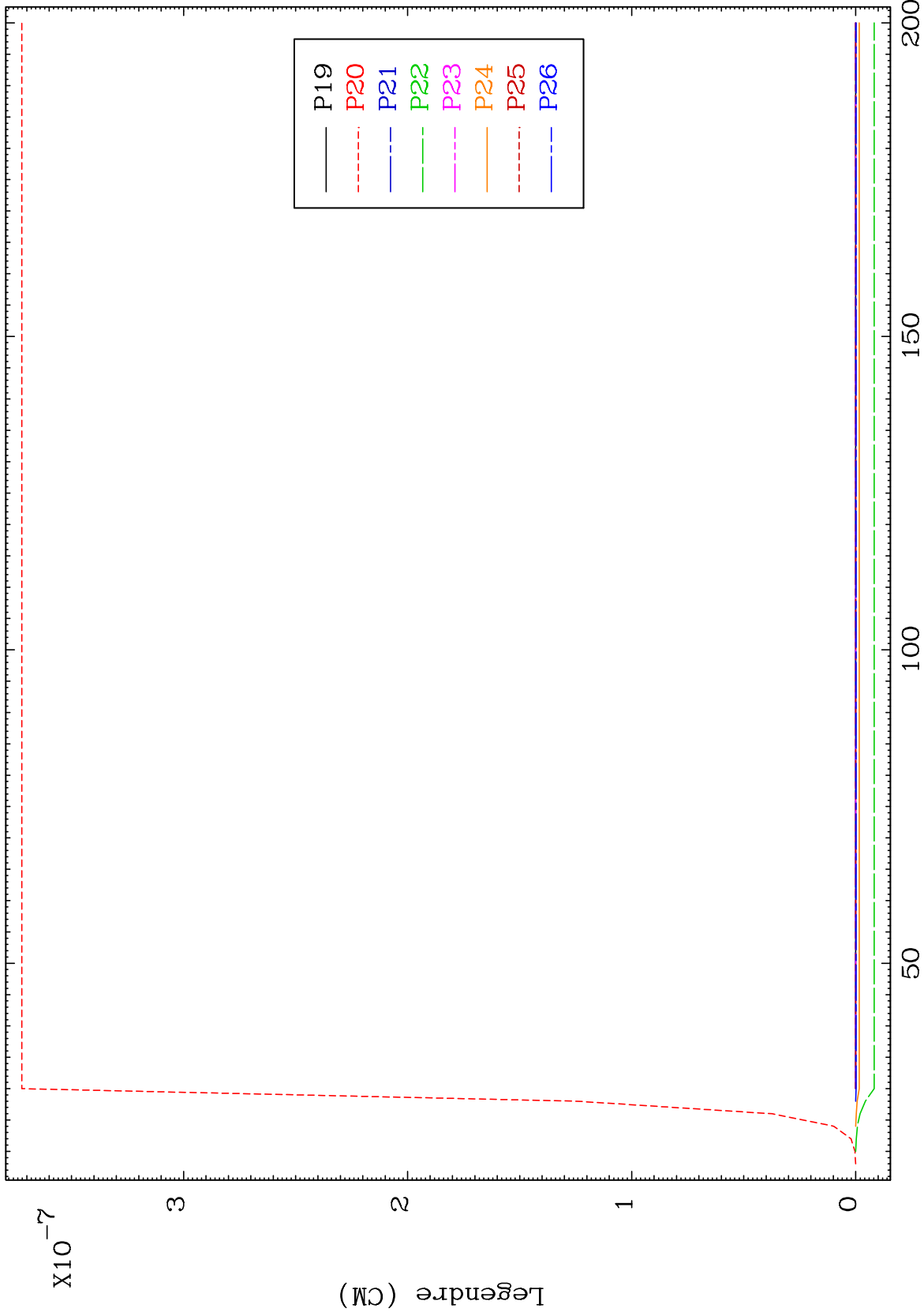
Incident Energy (MeV)

64-Gd-141

MAT 6392

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

64-Gd-141



61

Incident Energy (MeV)

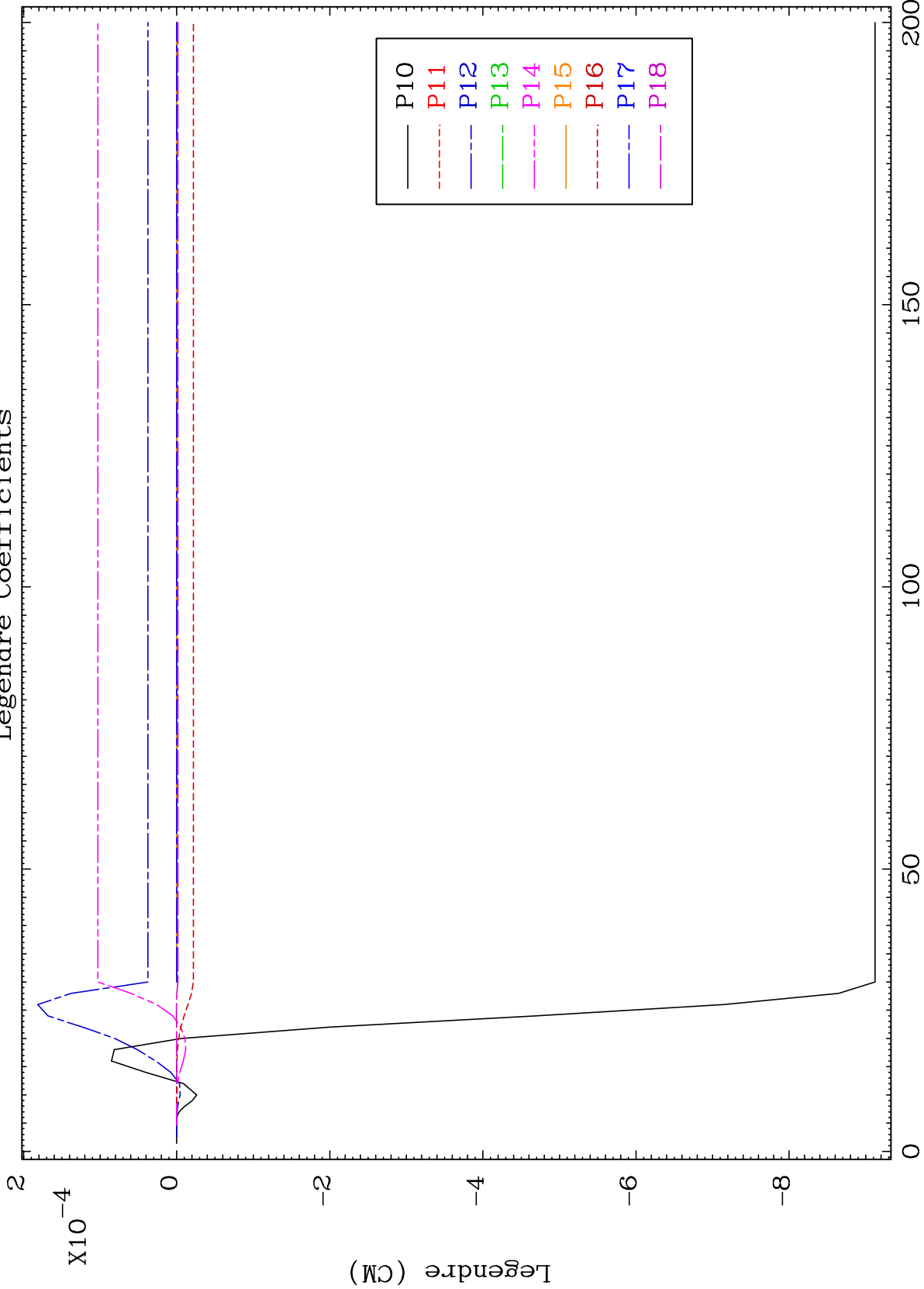
64-Gd-141



MAT 6392

MT= 63 (n,n') Level  
Legendre Coefficients

64-Gd-141



63

Incident Energy (MeV)

64-Gd-141

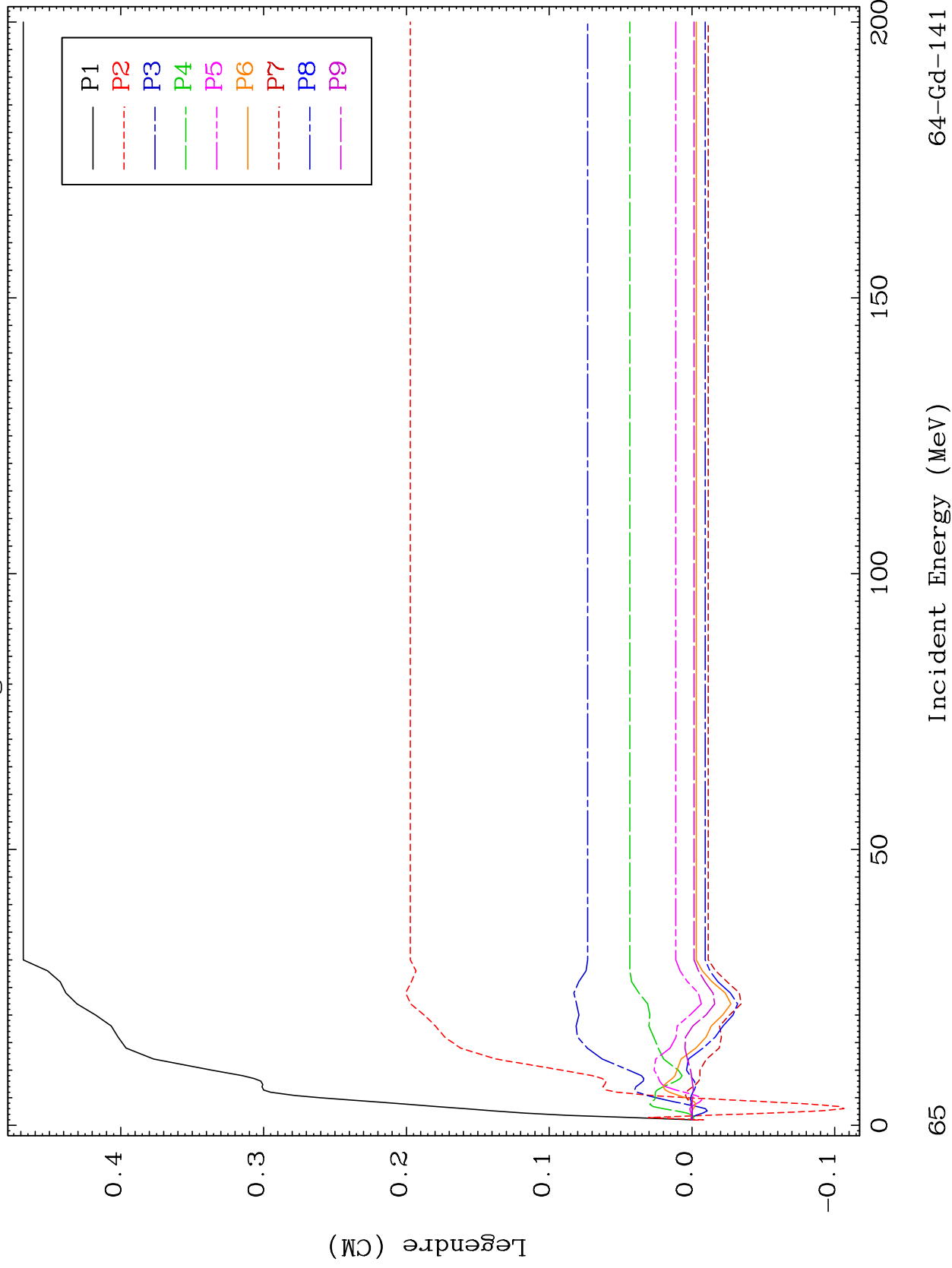




MAT 6392

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

64-Gd-141



64-Gd-141

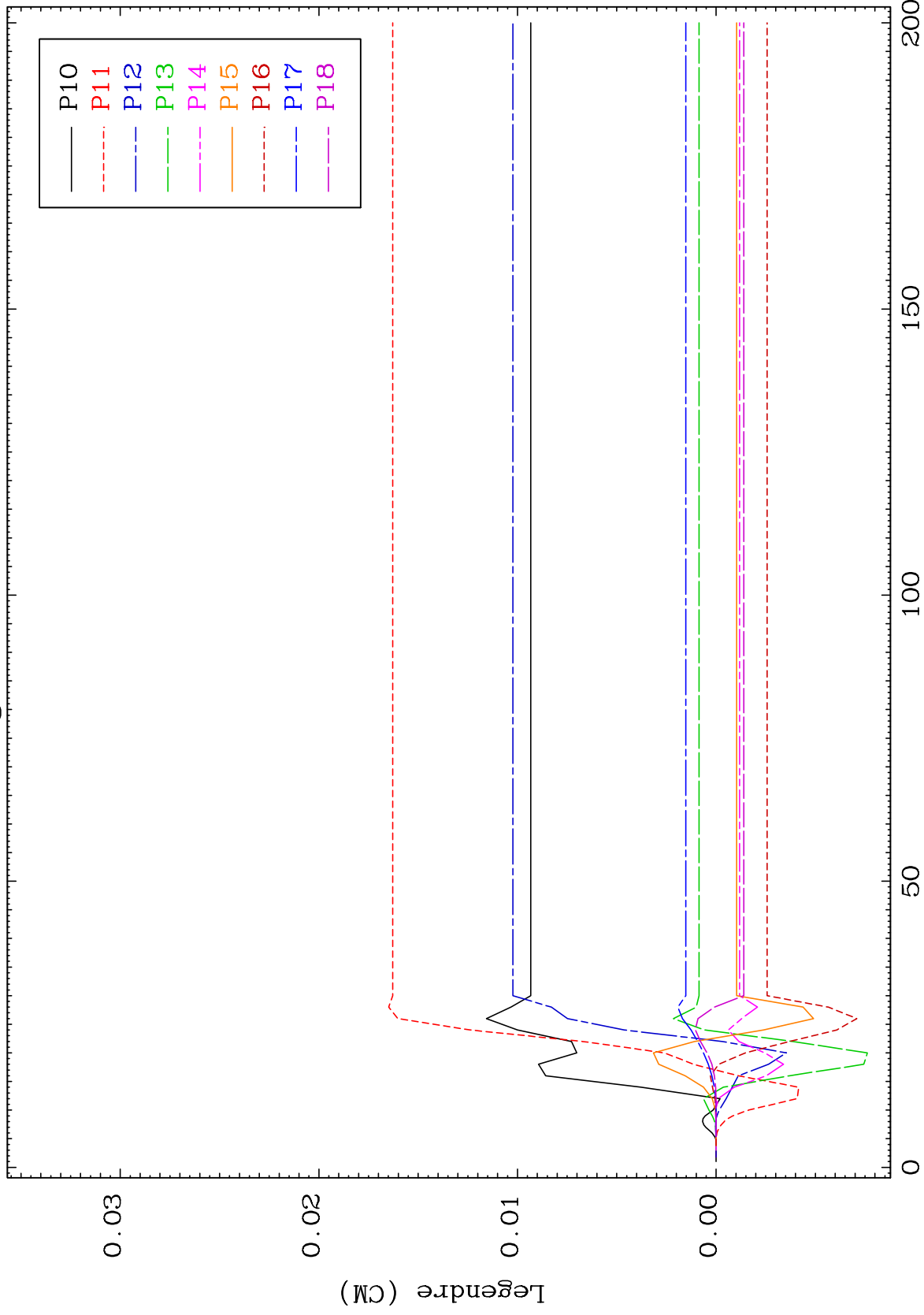
Incident Energy (MeV)

65

MAT 6392

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

64-Gd-141



66

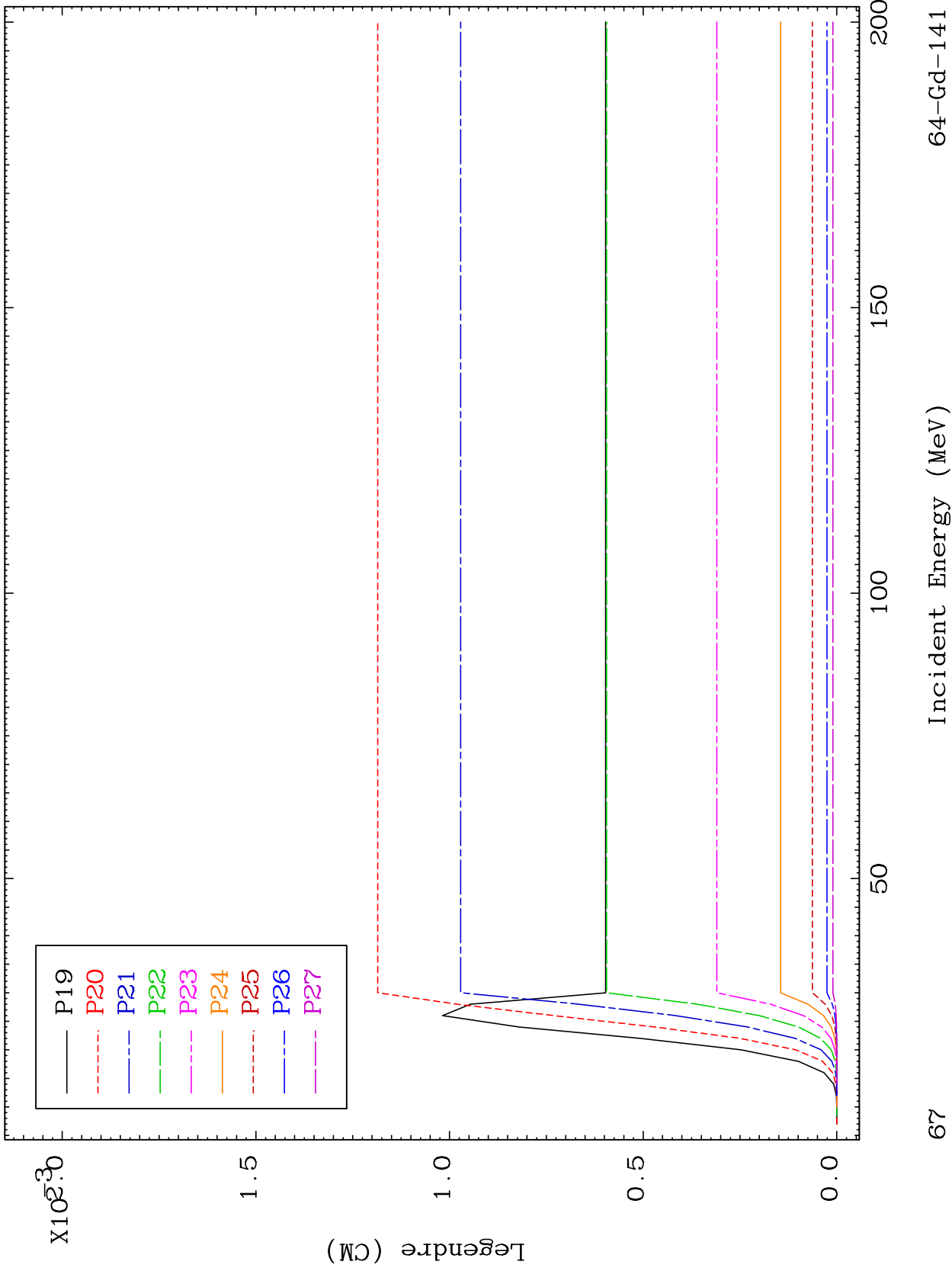
Incident Energy (MeV)

64-Gd-141

MAT 6392

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

64-Gd-141



67

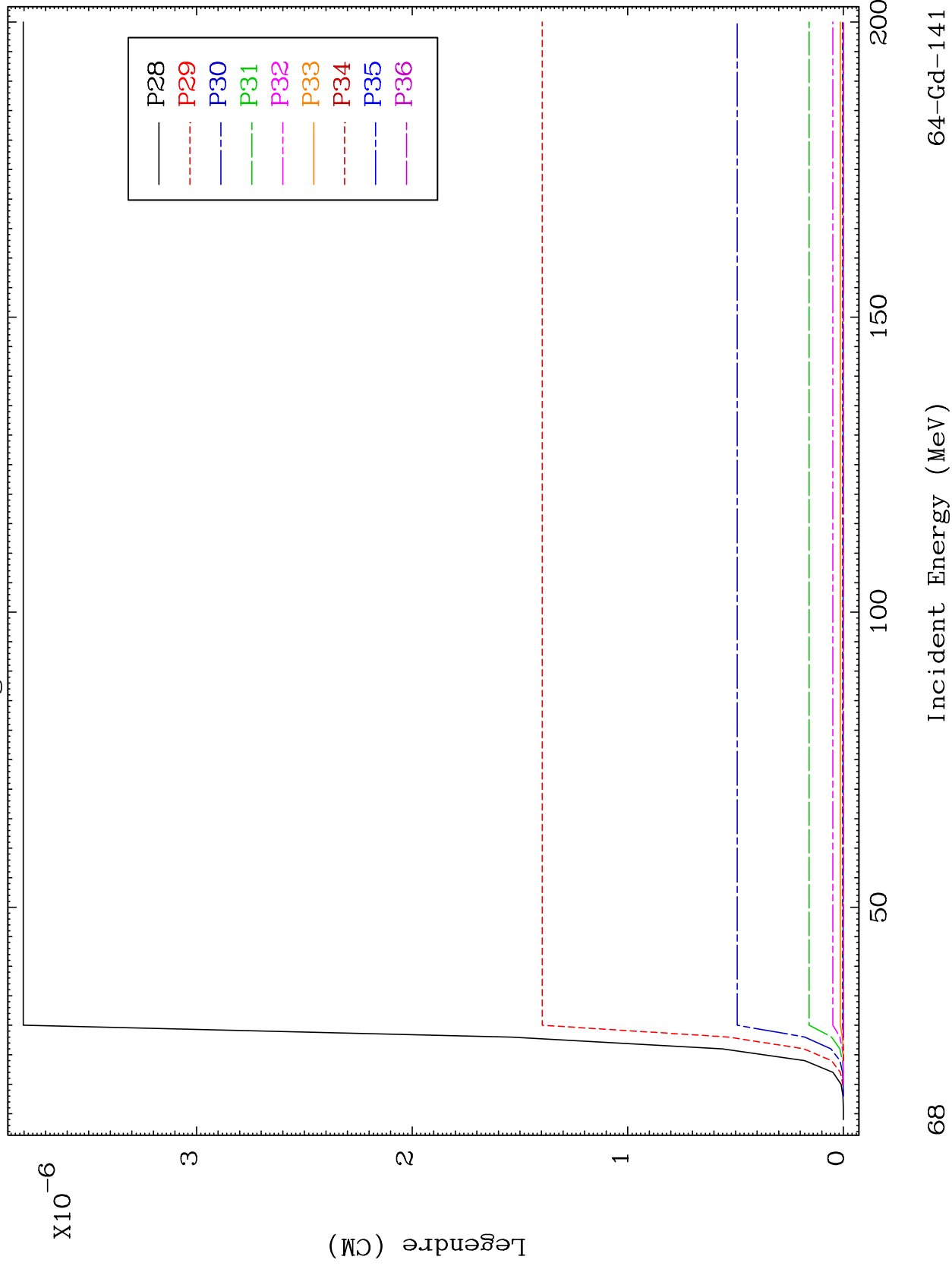
Incident Energy (MeV)

64-Gd-141

MAT 6392

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

64-Gd-141



68

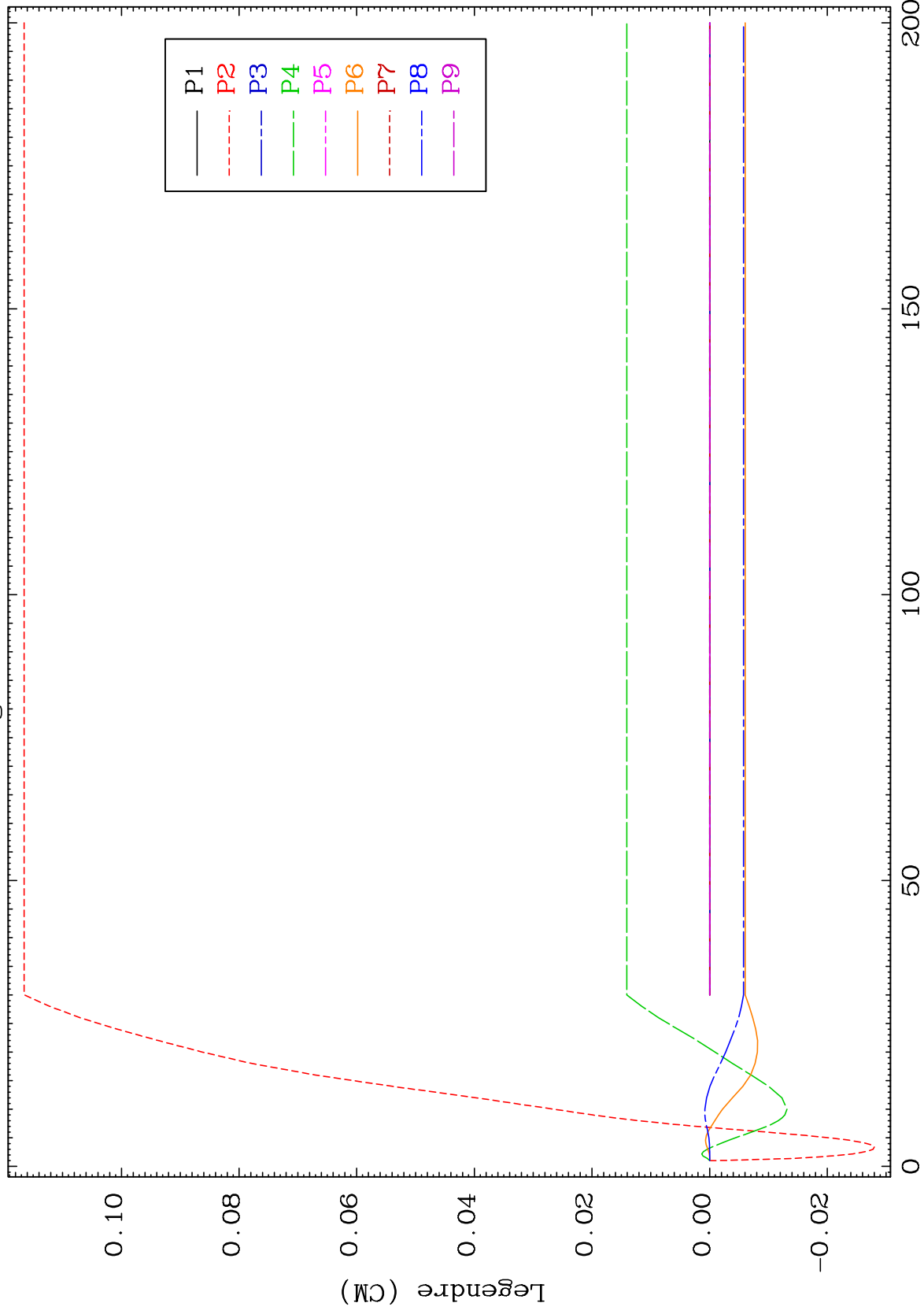
Incident Energy (MeV)

64-Gd-141

MAT 6392

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

64-Gd-141



64-Gd-141

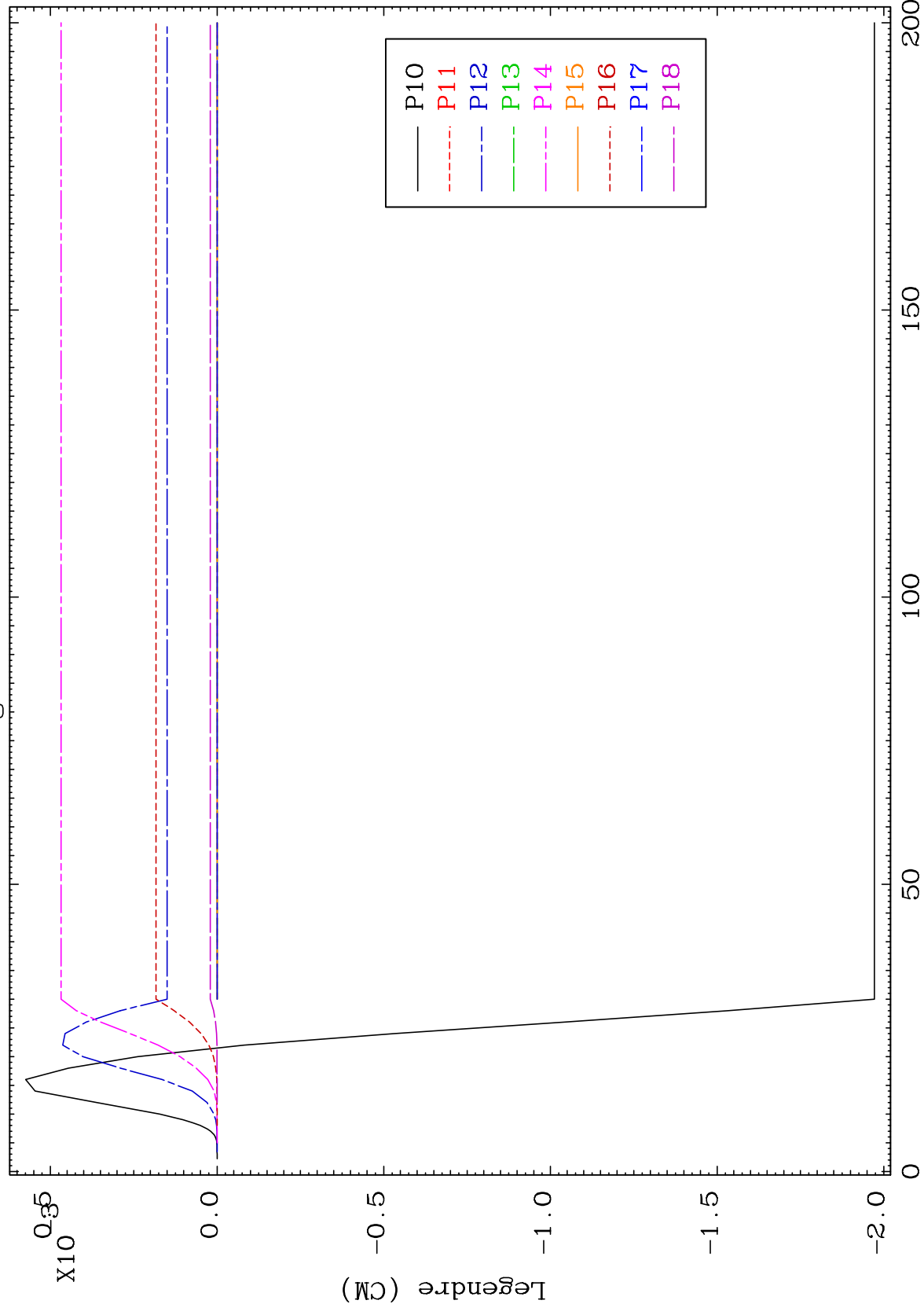
Incident Energy (MeV)

69

MAT 6392

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

64-Gd-141



70

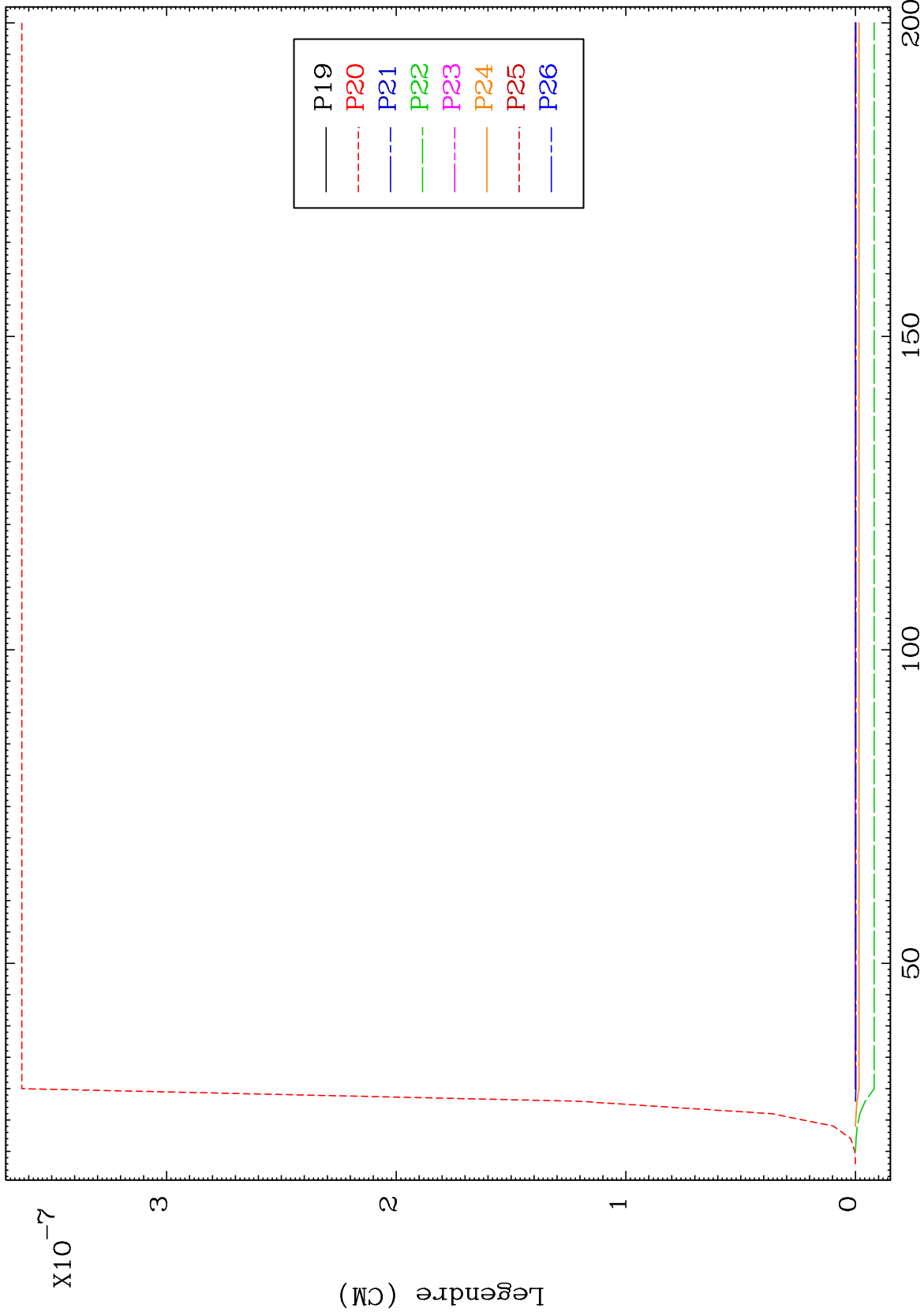
Incident Energy (MeV)

64-Gd-141

MAT 6392

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

64-Gd-141



71

Incident Energy (MeV)

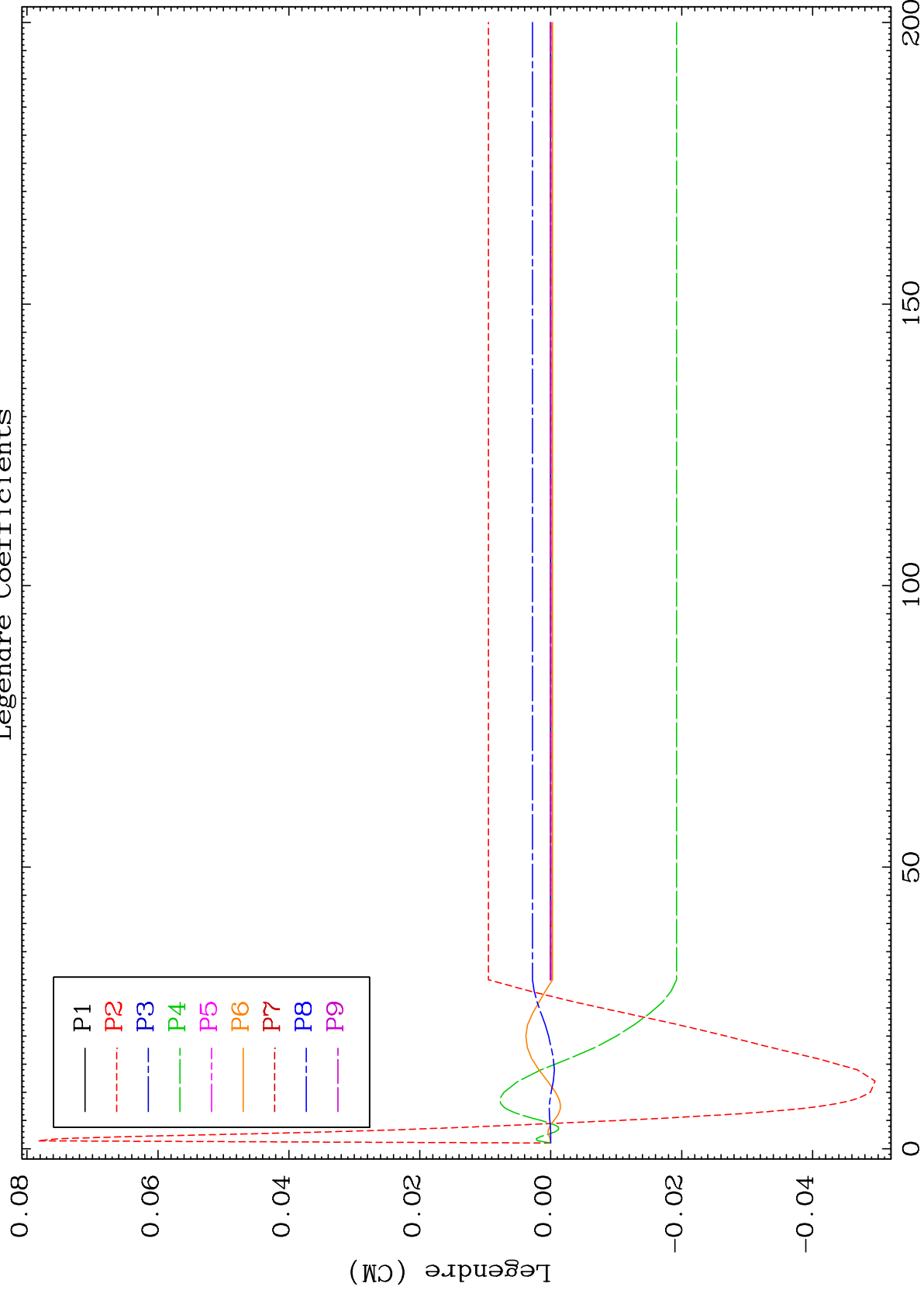
64-Gd-141



MAT 6392

MT= 66 (n,n') Level  
Legendre Coefficients

64-Gd-141



72

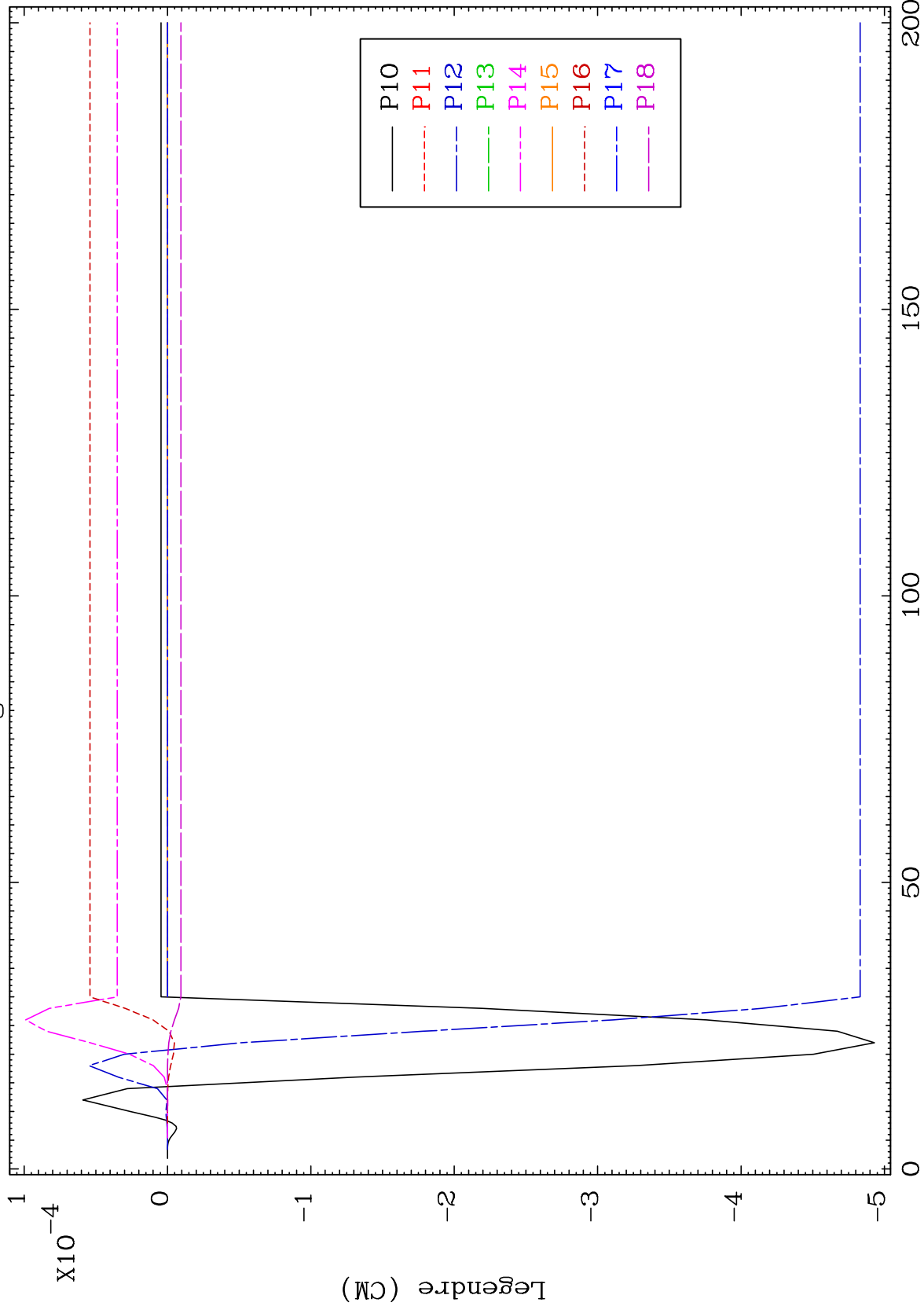
Incident Energy (MeV)

64-Gd-141

MAT 6392

MT= 66 (n,n') Level  
Legendre Coefficients

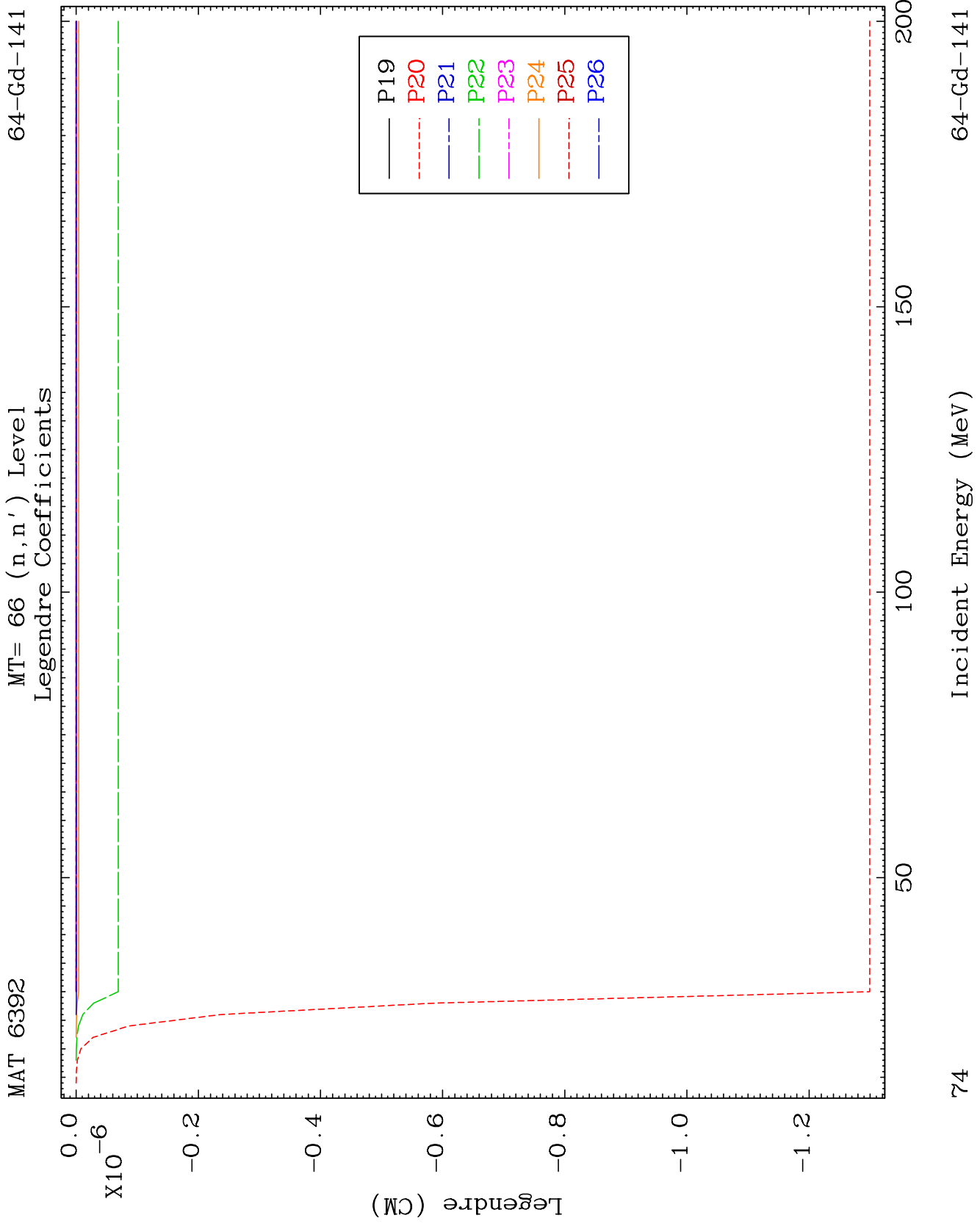
64-Gd-141



73

Incident Energy (MeV)

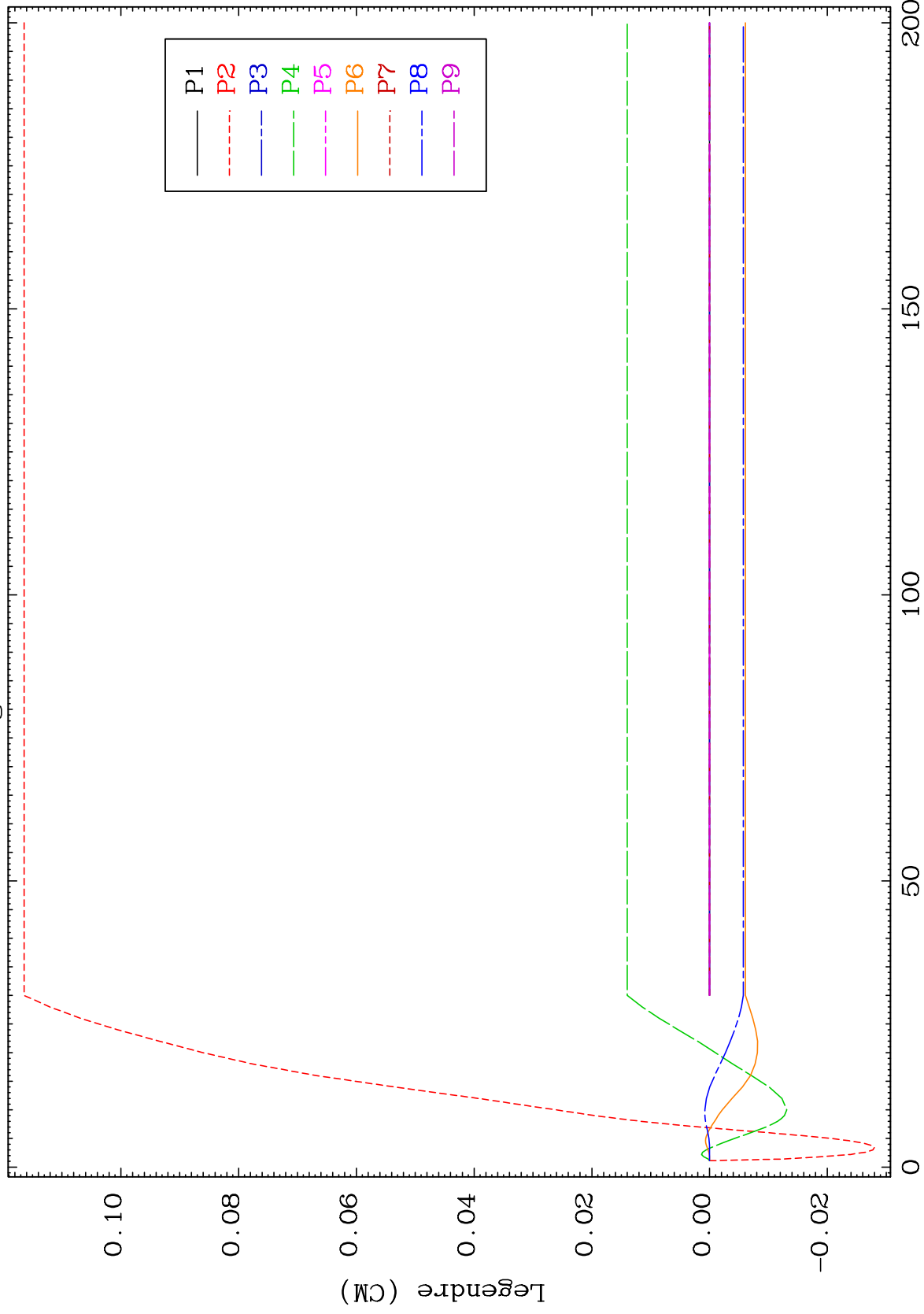
64-Gd-141



MAT 6392

MT= 67 (n,n') Level  
Legendre Coefficients

64-Gd-141



75

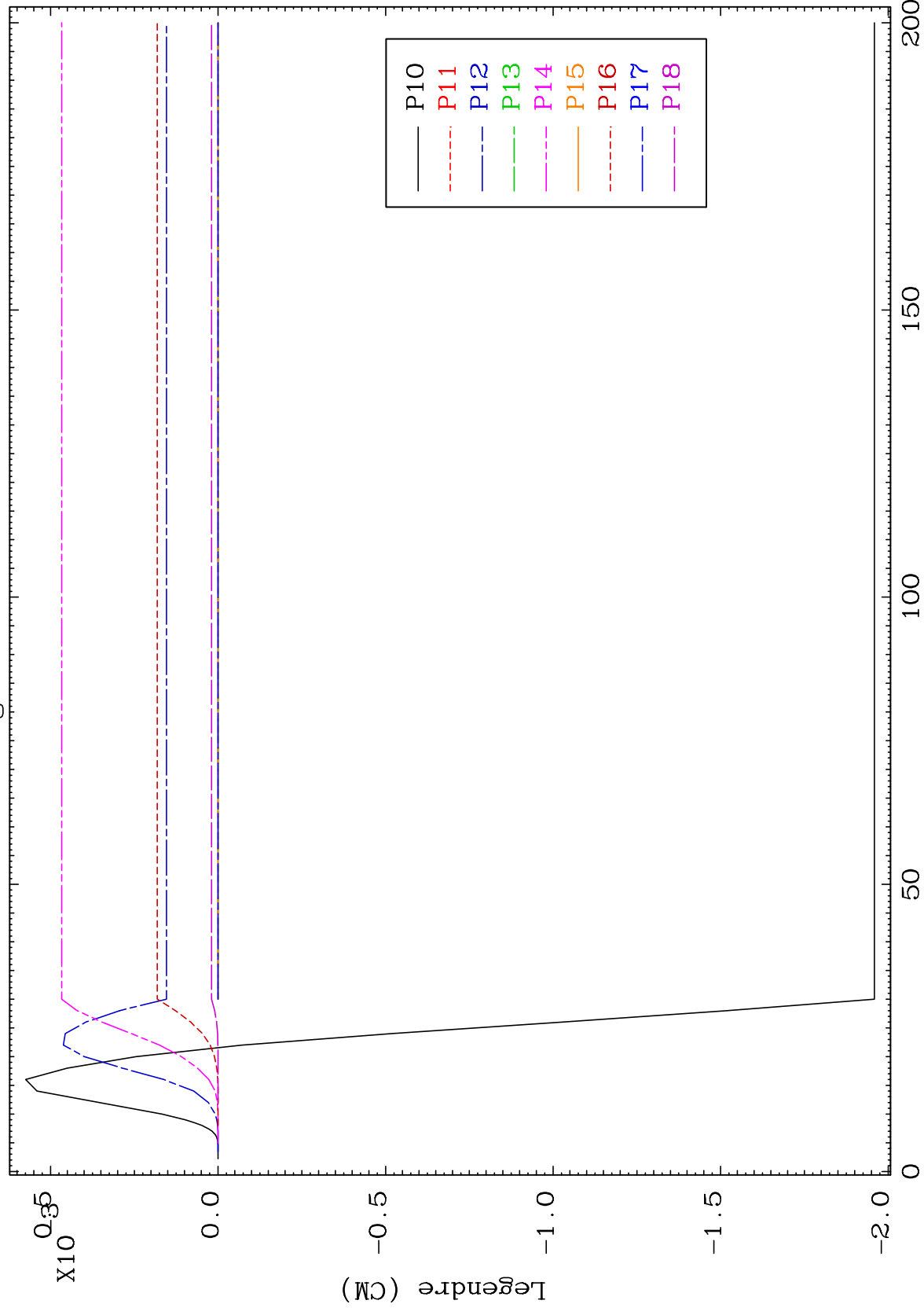
Incident Energy (MeV)

64-Gd-141

MAT 6392

MT= 67 (n,n') Level  
Legendre Coefficients

64-Gd-141



76

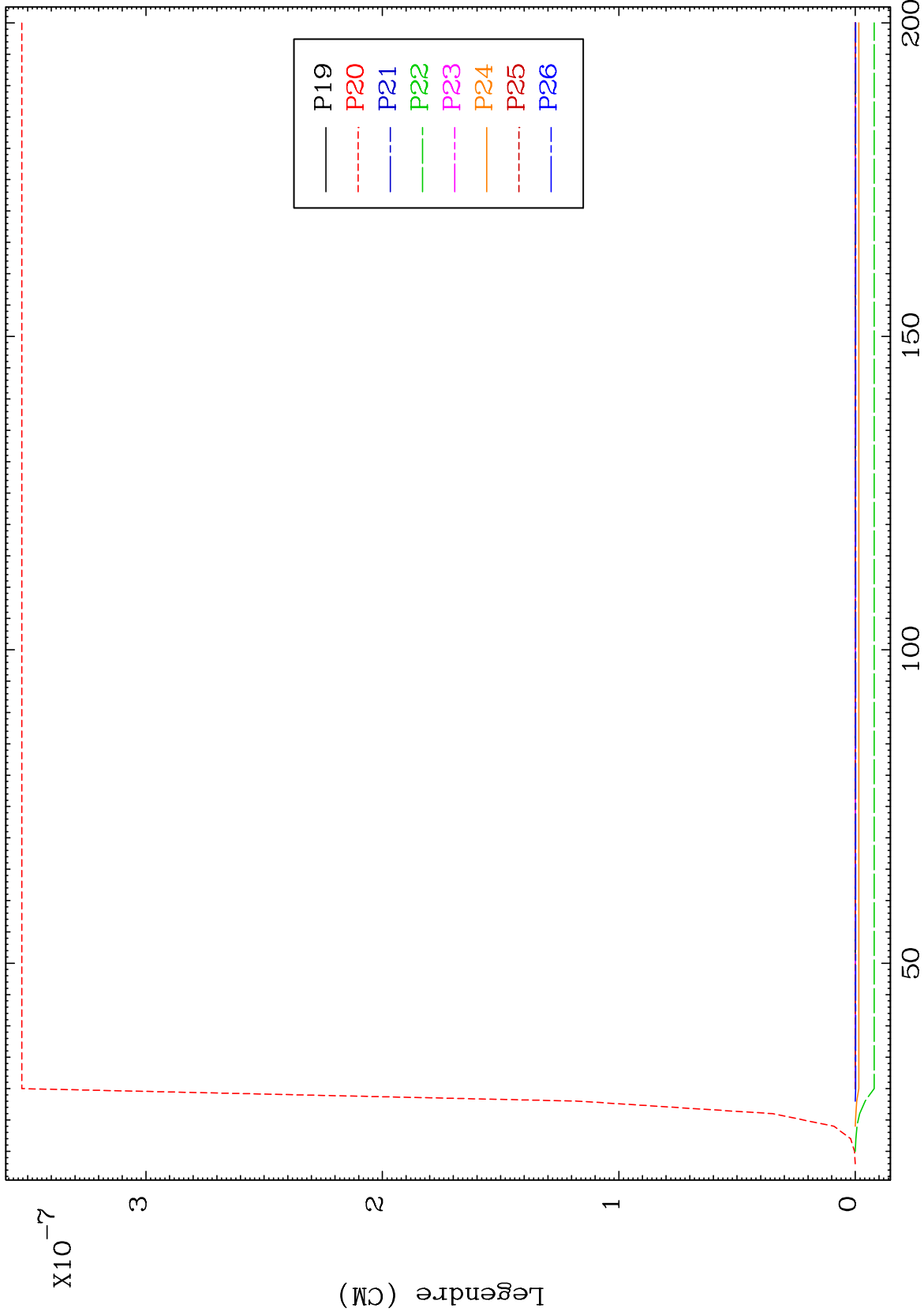
Incident Energy (MeV)

64-Gd-141

MAT 6392

MT= 67 (n,n') Level  
Legendre Coefficients

64-Gd-141



77

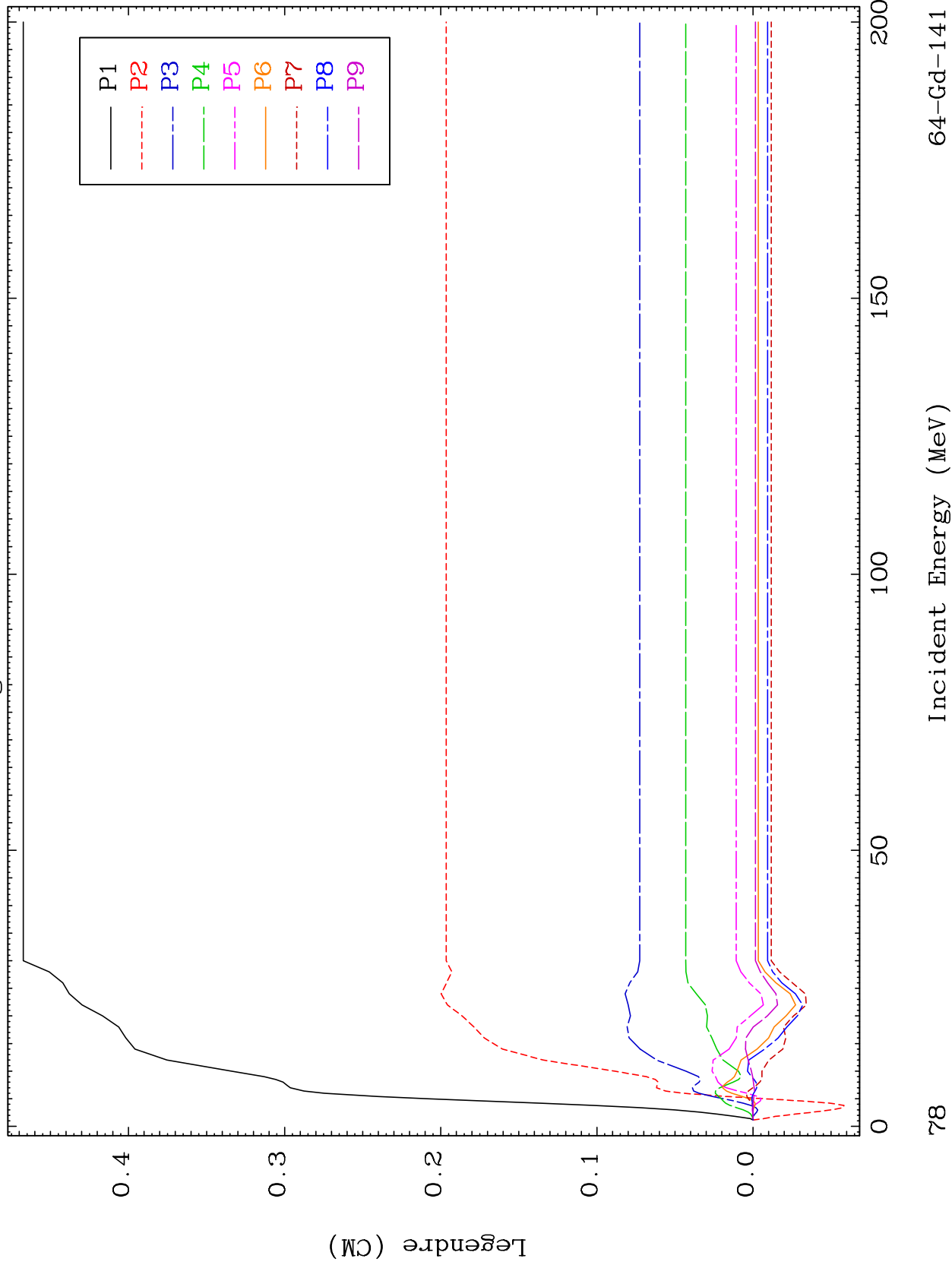
Incident Energy (MeV)

64-Gd-141

MAT 6392

MT= 68 (n,n') Level  
Legendre Coefficients

64-Gd-141



64-Gd-141

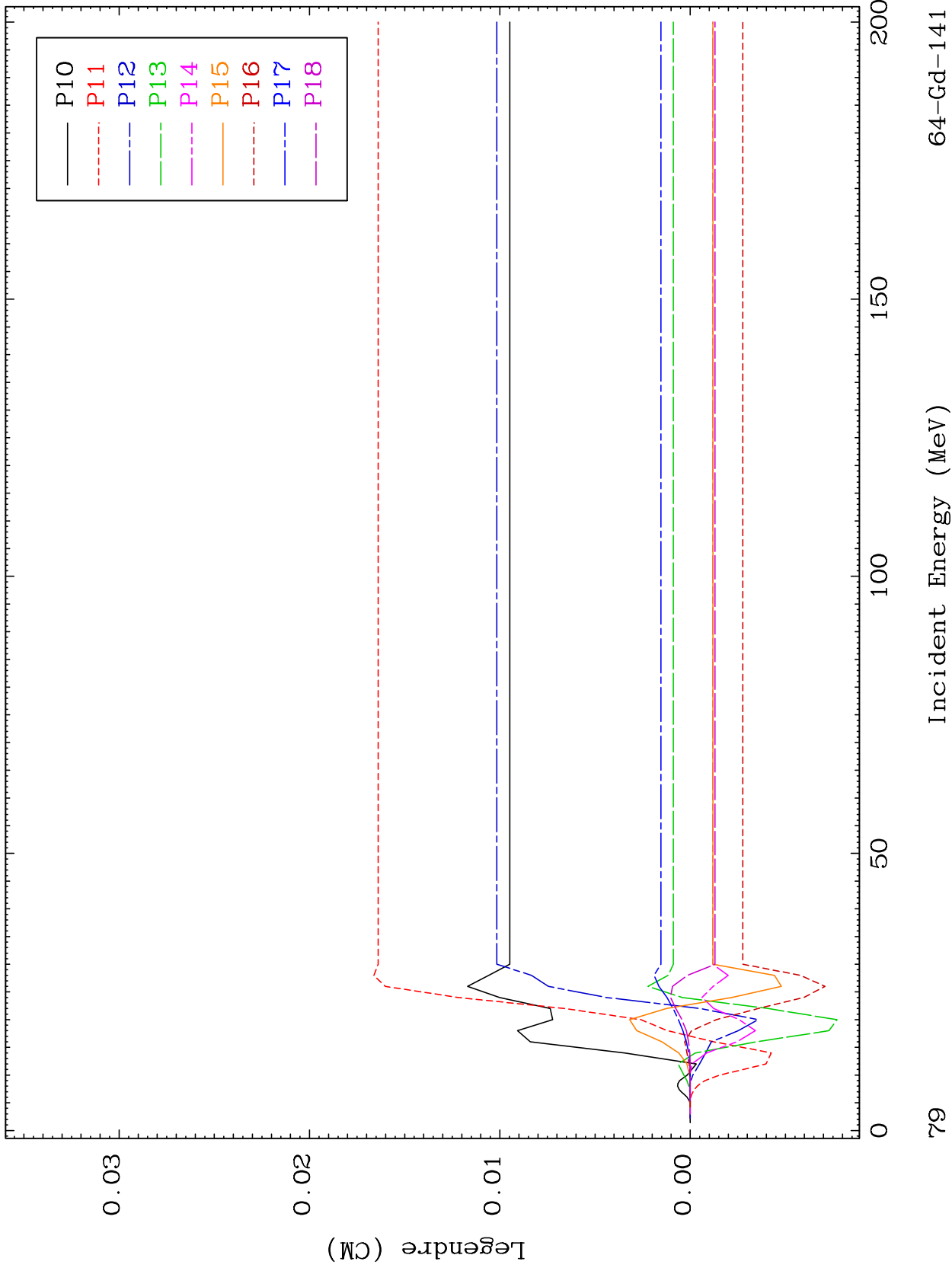
Incident Energy (MeV)

78

MAT 6392

MT= 68 (n,n') Level  
Legendre Coefficients

64-Gd-141



79

Incident Energy (MeV)

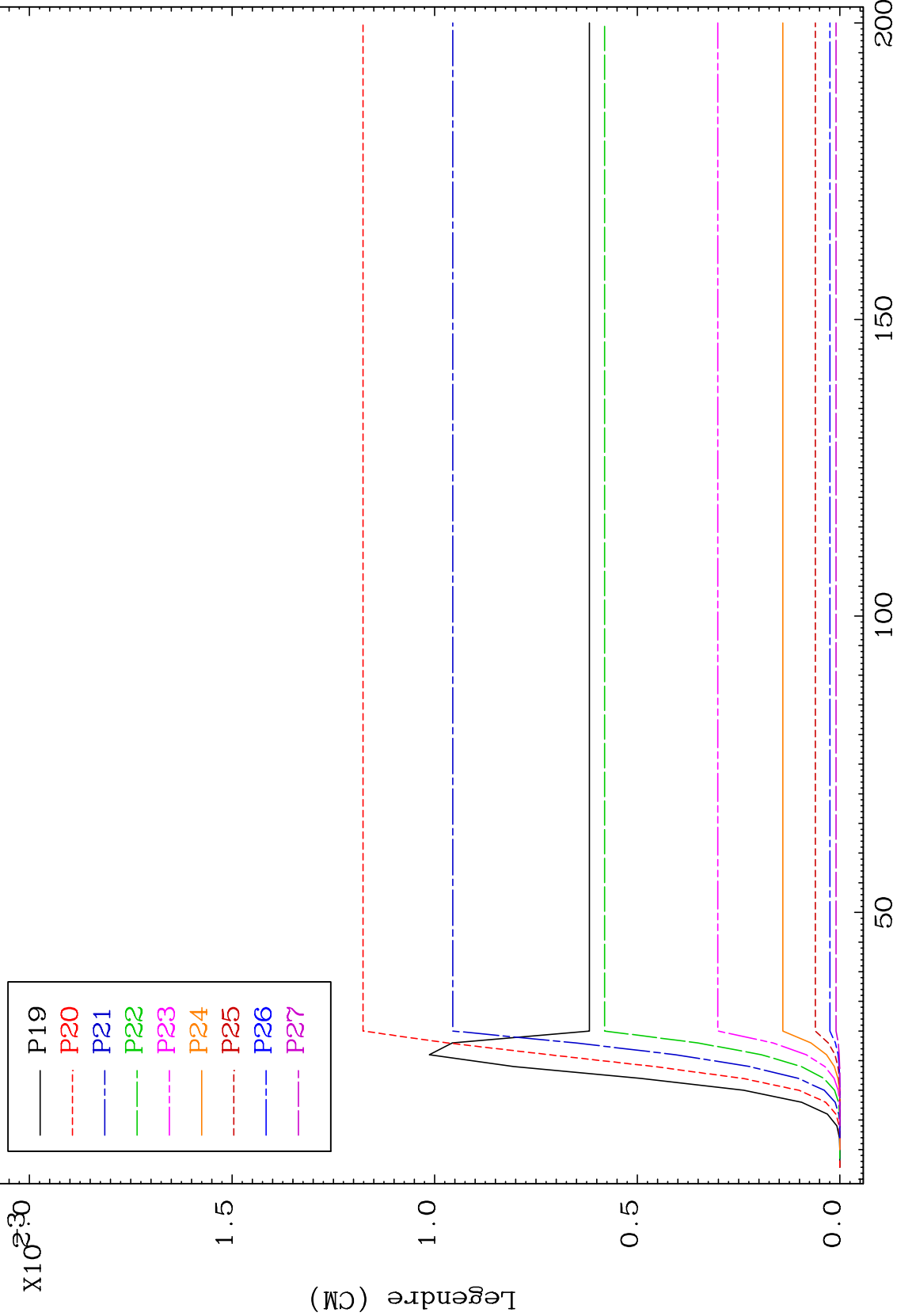
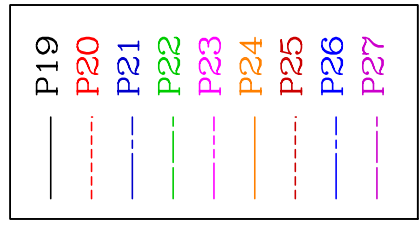
64-Gd-141



MAT 6392

MT= 68 (n,n') Level  
Legendre Coefficients

64-Gd-141



80

Incident Energy (MeV)

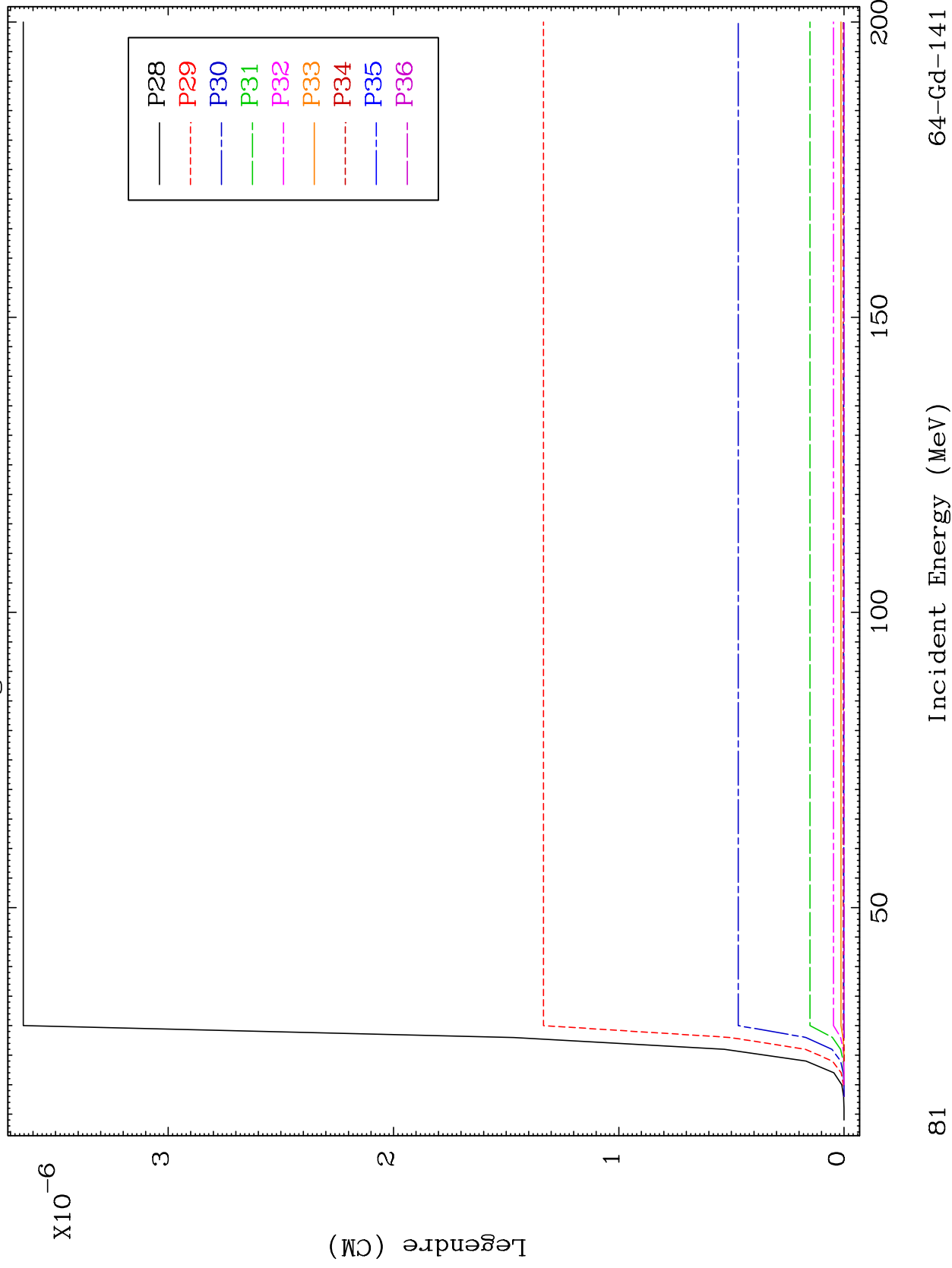
64-Gd-141

200

MAT 6392

MT= 68 (n,n') Level  
Legendre Coefficients

64-Gd-141



81

Incident Energy (MeV)

64-Gd-141

200

150

100

50

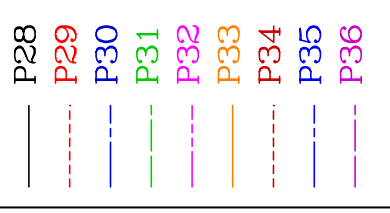
$\times 10^{-6}$

3

2

1

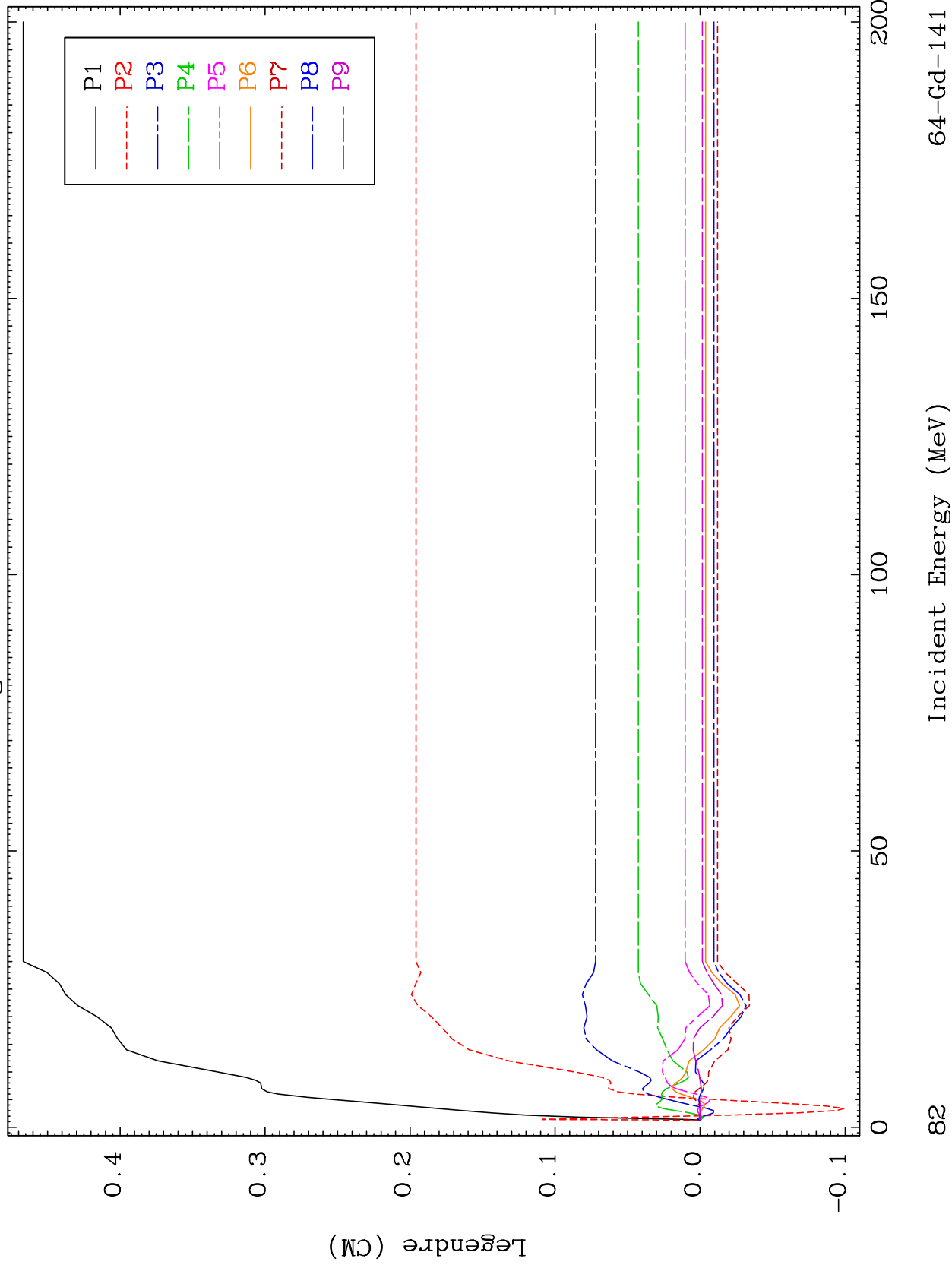
0



MAT 6392

MT= 69 (n,n') Level  
Legendre Coefficients

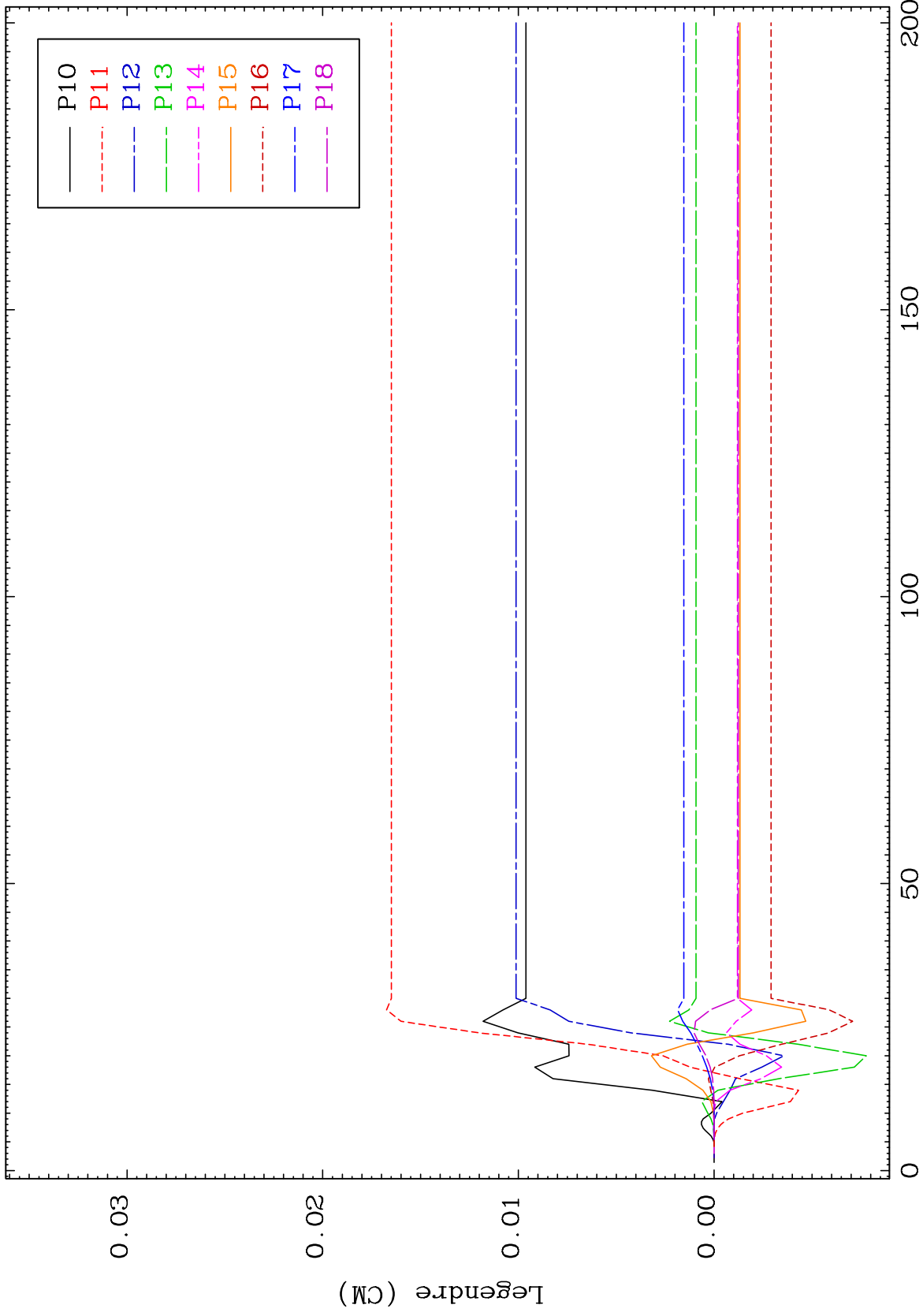
64-Gd-141



MAT 6392

MT= 69 (n,n') Level  
Legendre Coefficients

64-Gd-141



83

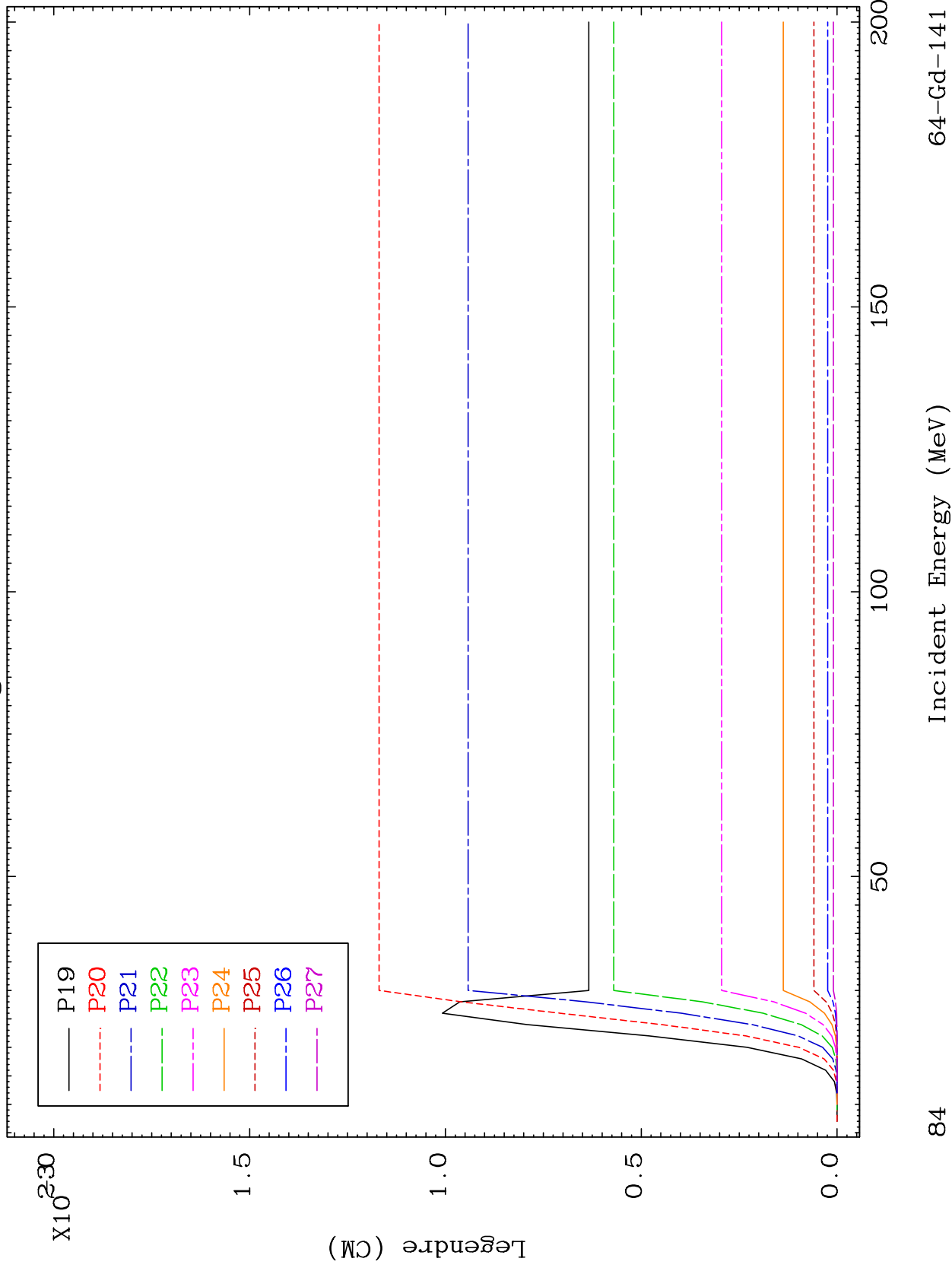
Incident Energy (MeV)

64-Gd-141

MAT 6392

MT= 69 (n,n') Level  
Legendre Coefficients

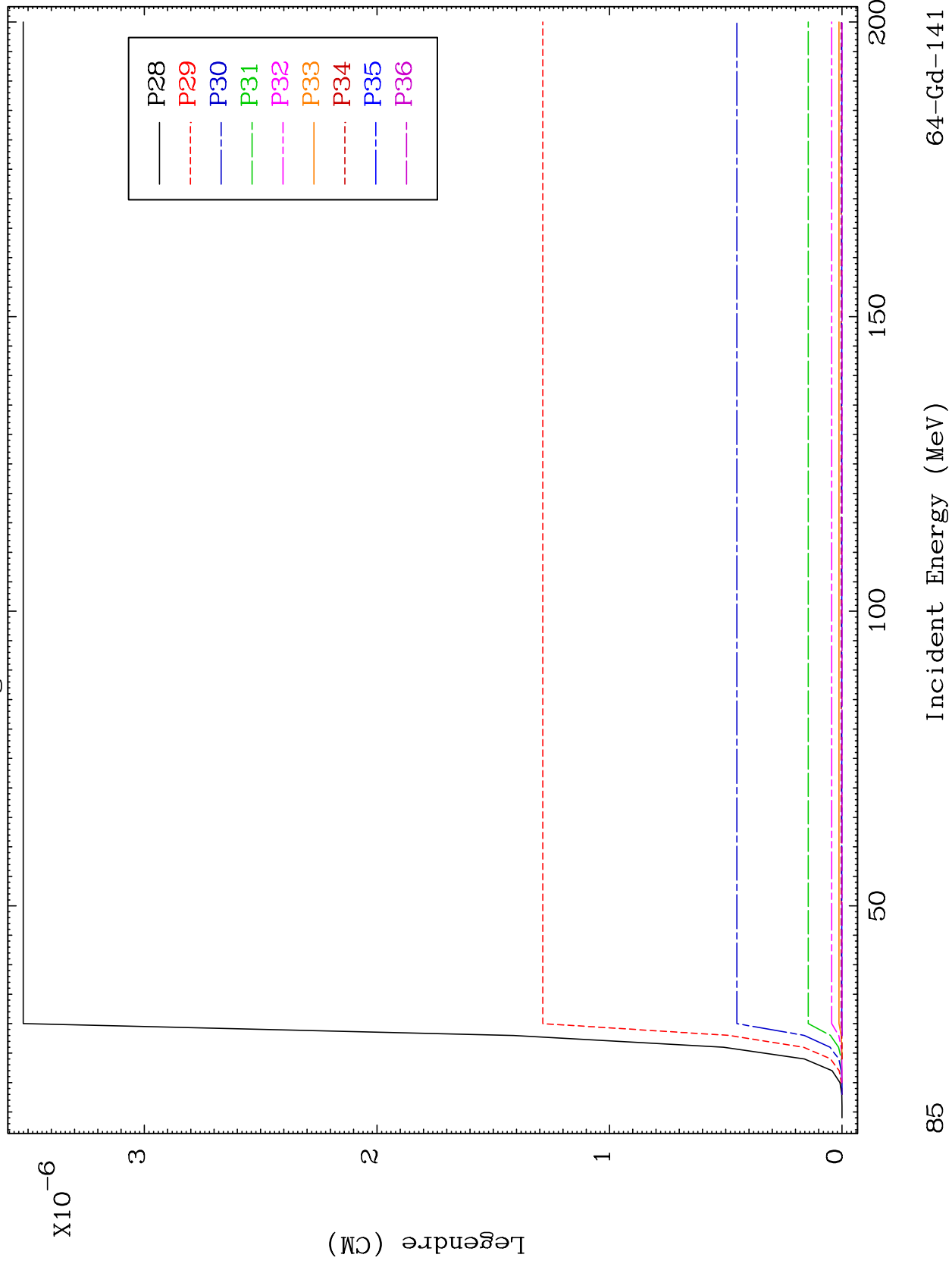
64-Gd-141



MAT 6392

MT= 69 (n,n') Level  
Legendre Coefficients

64-Gd-141

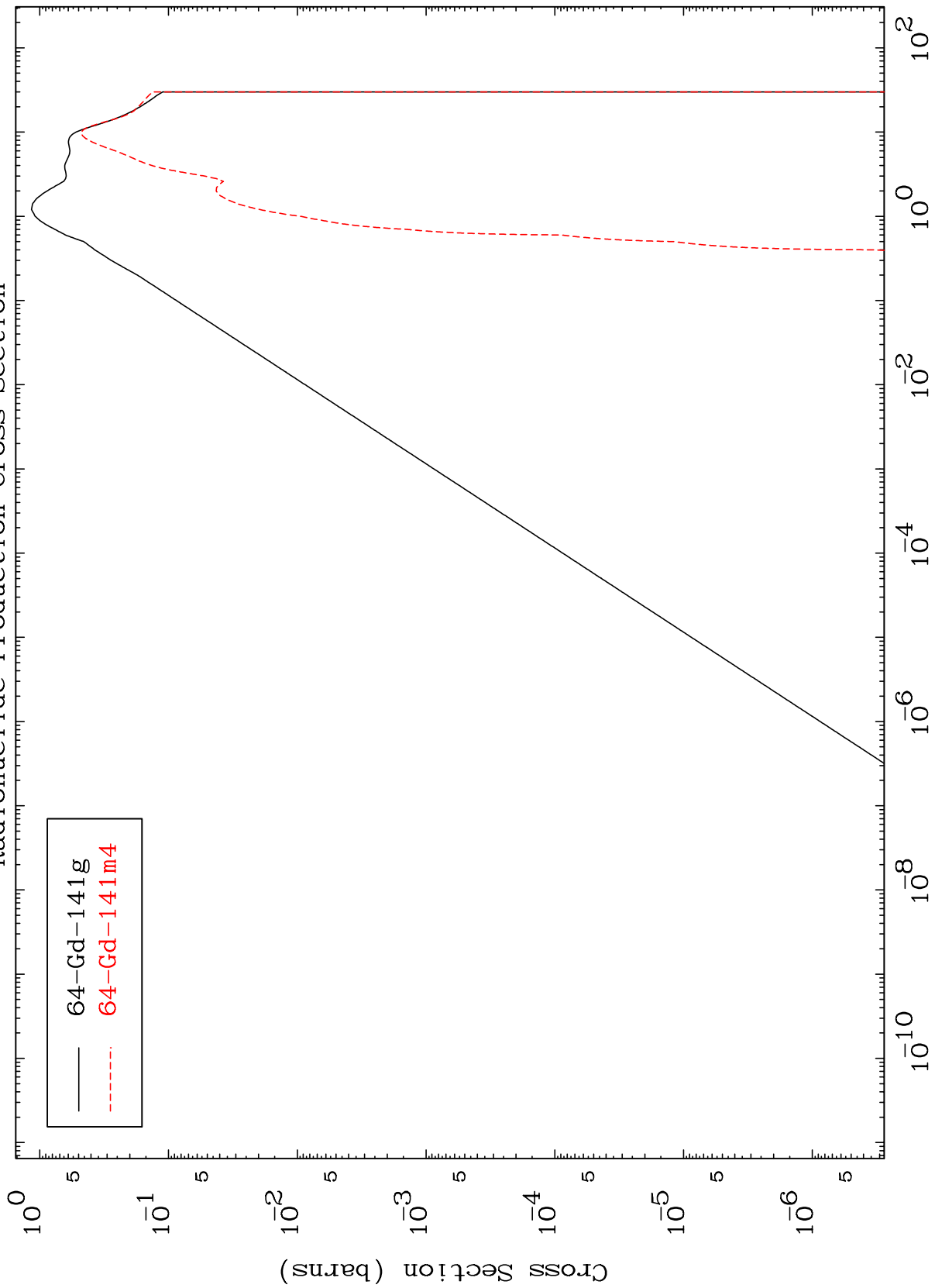


MAT 6392

Inelastic

64-Gd-141

Radionuclide Production Cross Section



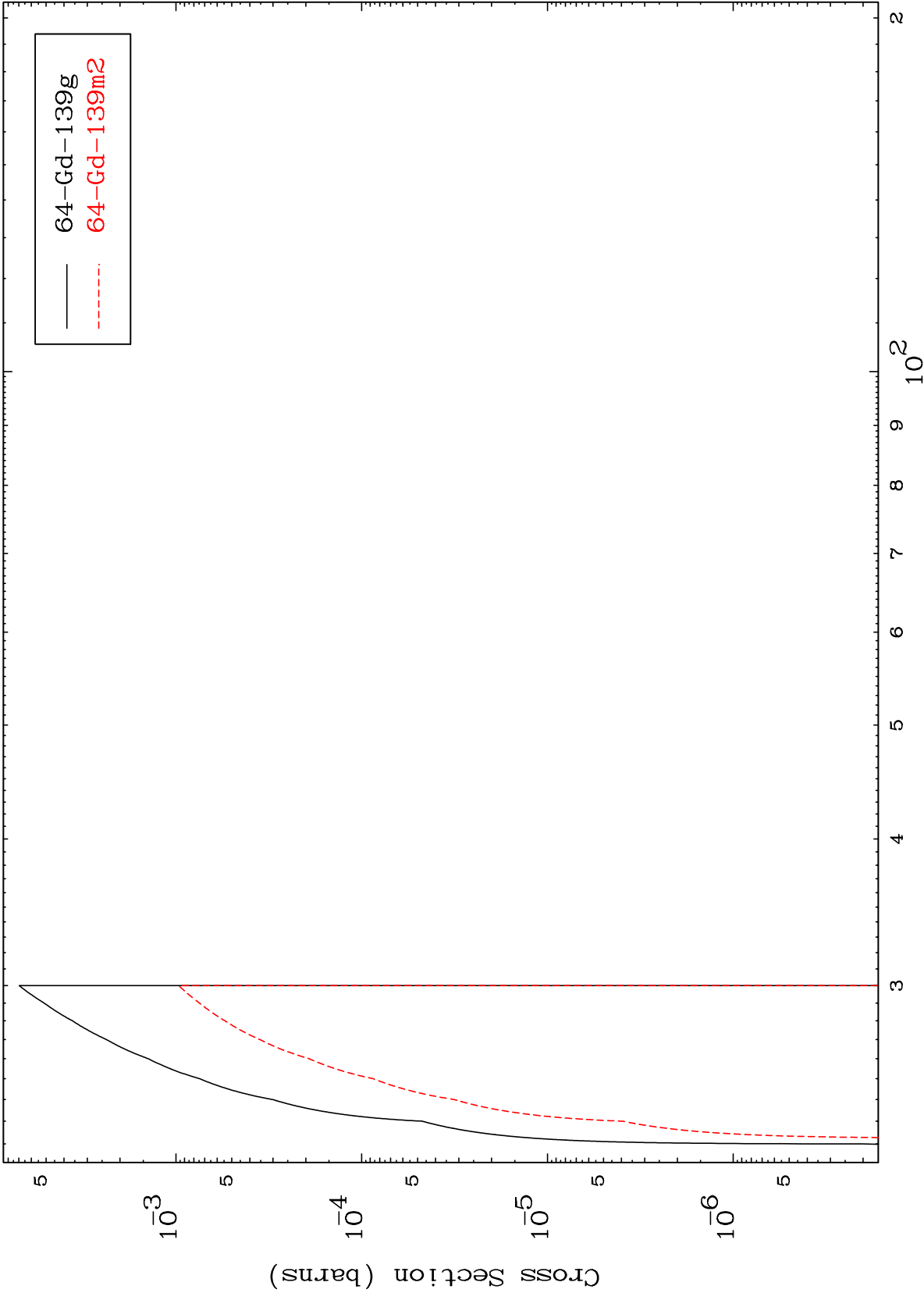
64-Gd-141 g  
64-Gd-141 m4

MAT 6392

(n,3n)

64-Gd-141

Radionuclide Production Cross Section



87

Incident Energy (MeV)

64-Gd-141

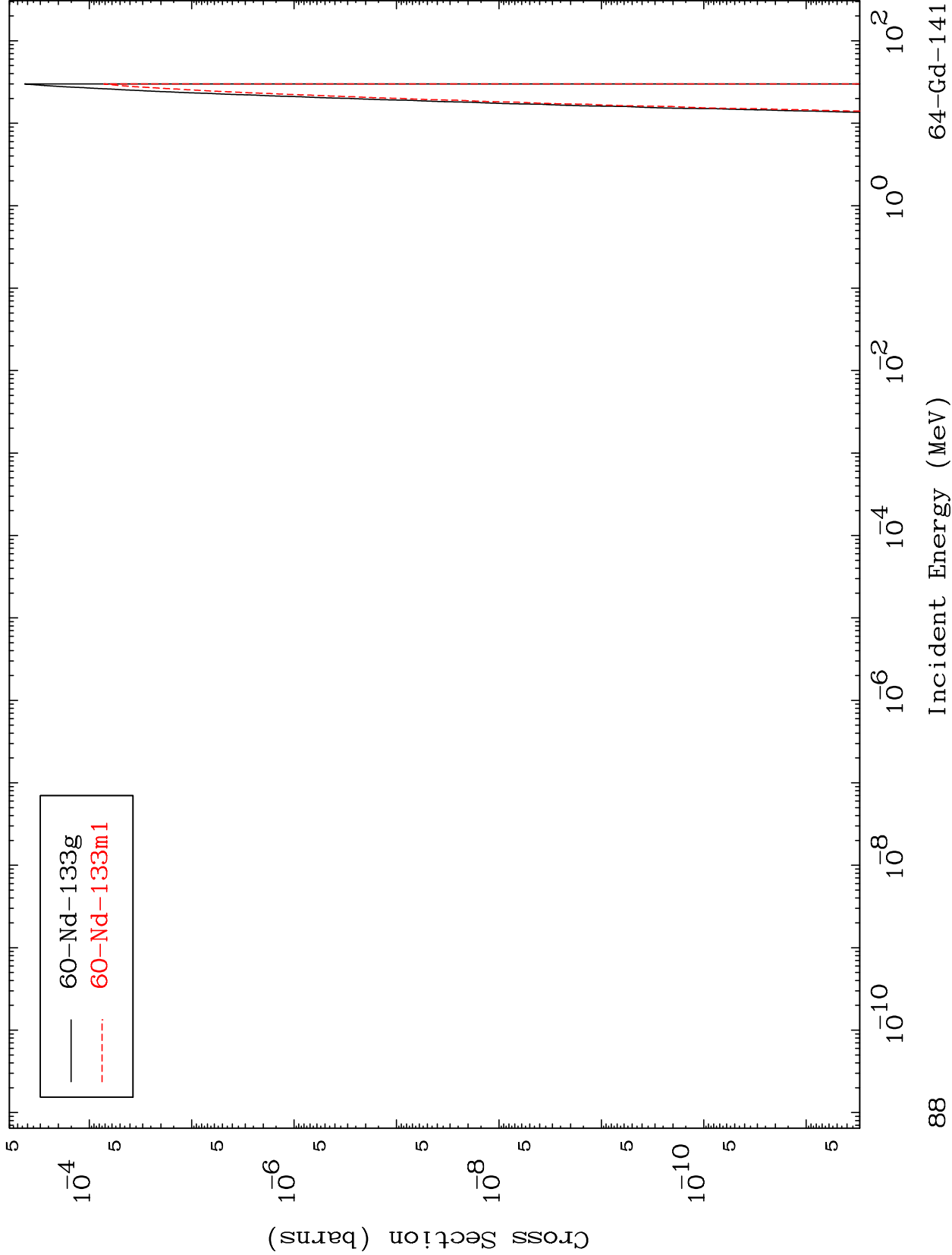


MAT 6392

(n,n') 2 $\alpha$

64-Gd-141

Radionuclide Production Cross Section

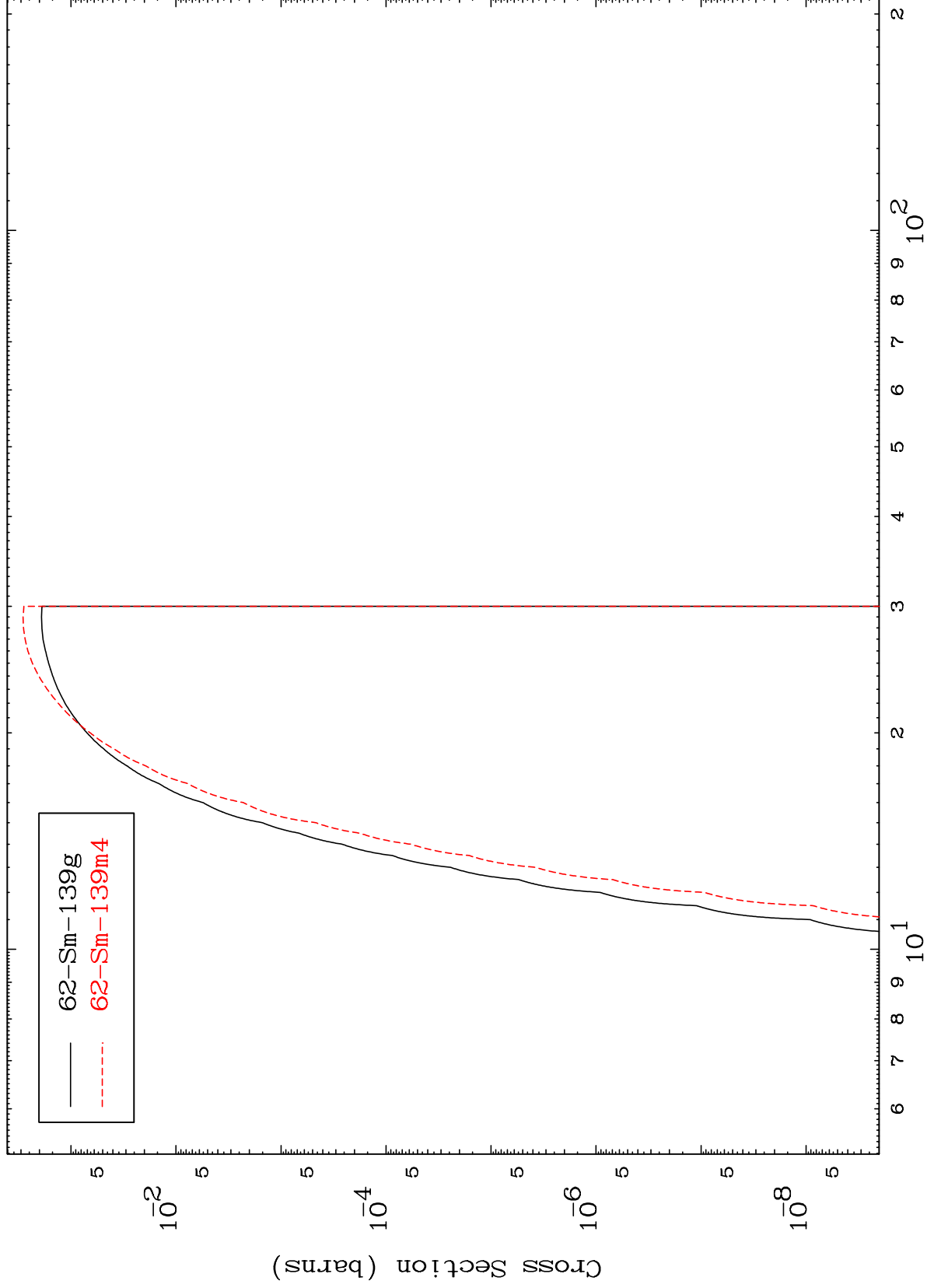


MAT 6392

(n,2n) p

64-Gd-141

Radionuclide Production Cross Section



89

Incident Energy (MeV)

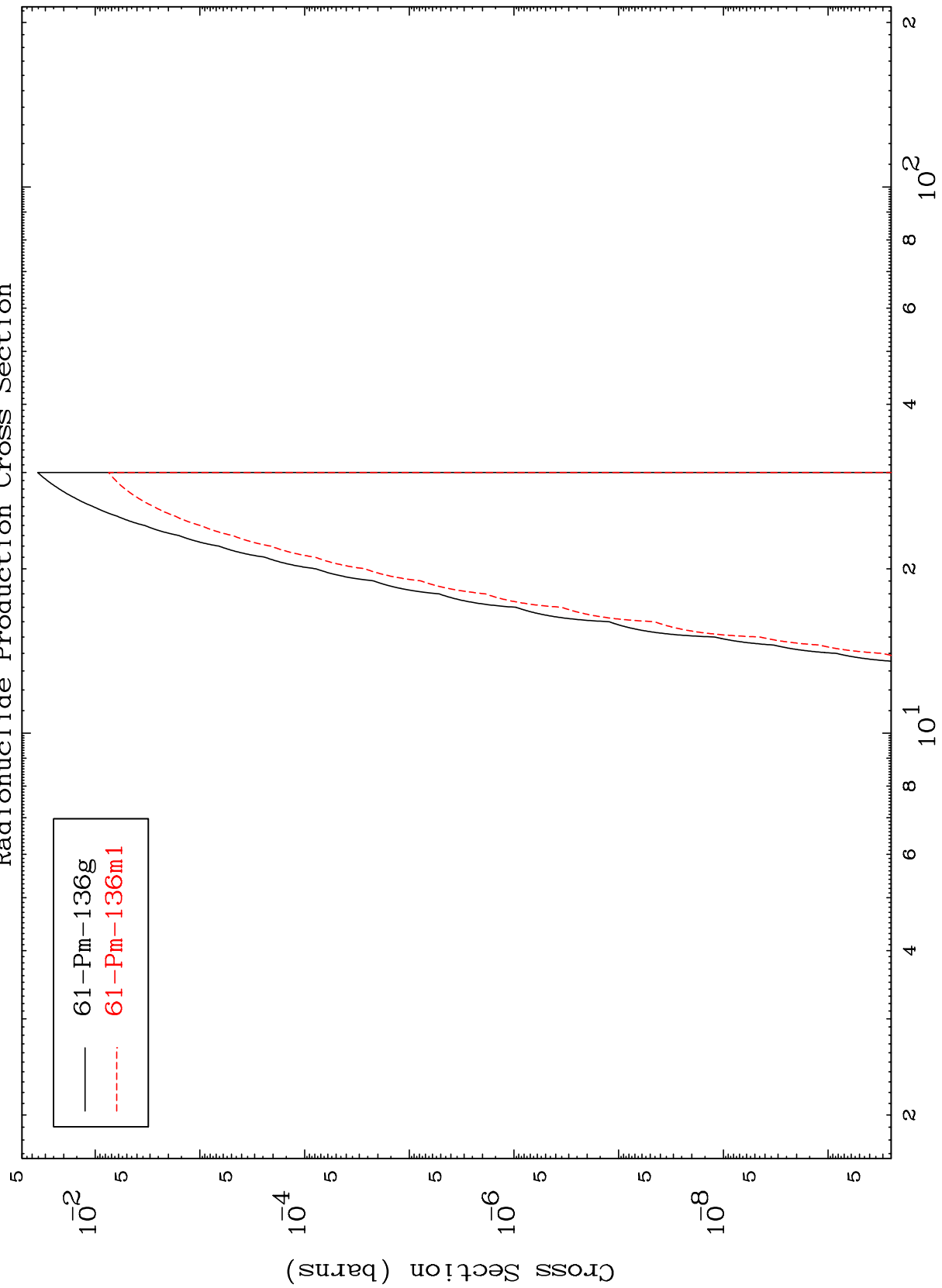
64-Gd-141

MAT 6392

(n,n') p  $\alpha$

64-Gd-141

Radionuclide Production Cross Section



90

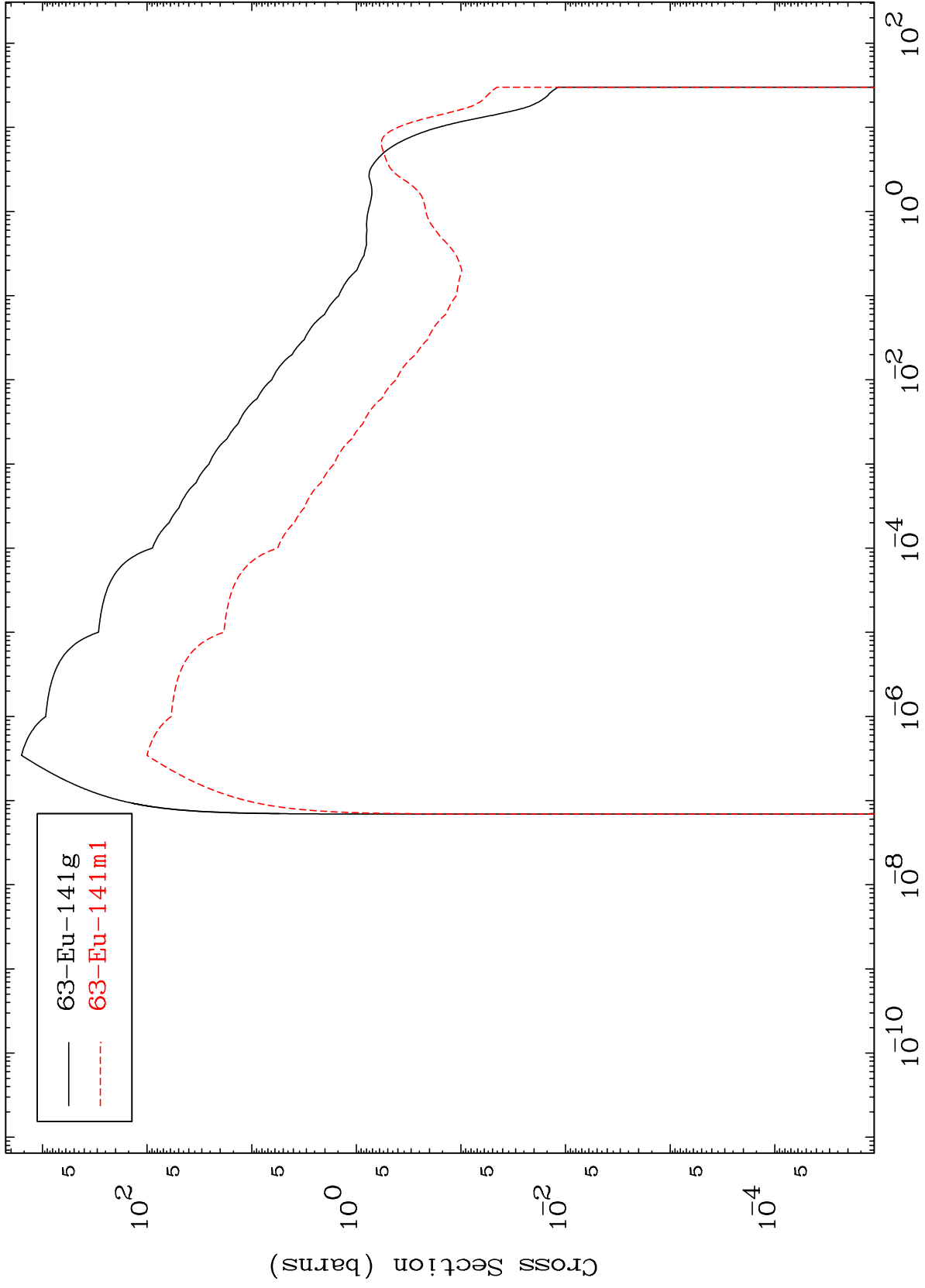
Incident Energy (MeV)

64-Gd-141

MAT 6392

64-Gd-141

(n,p)  
Radionuclide Production Cross Section



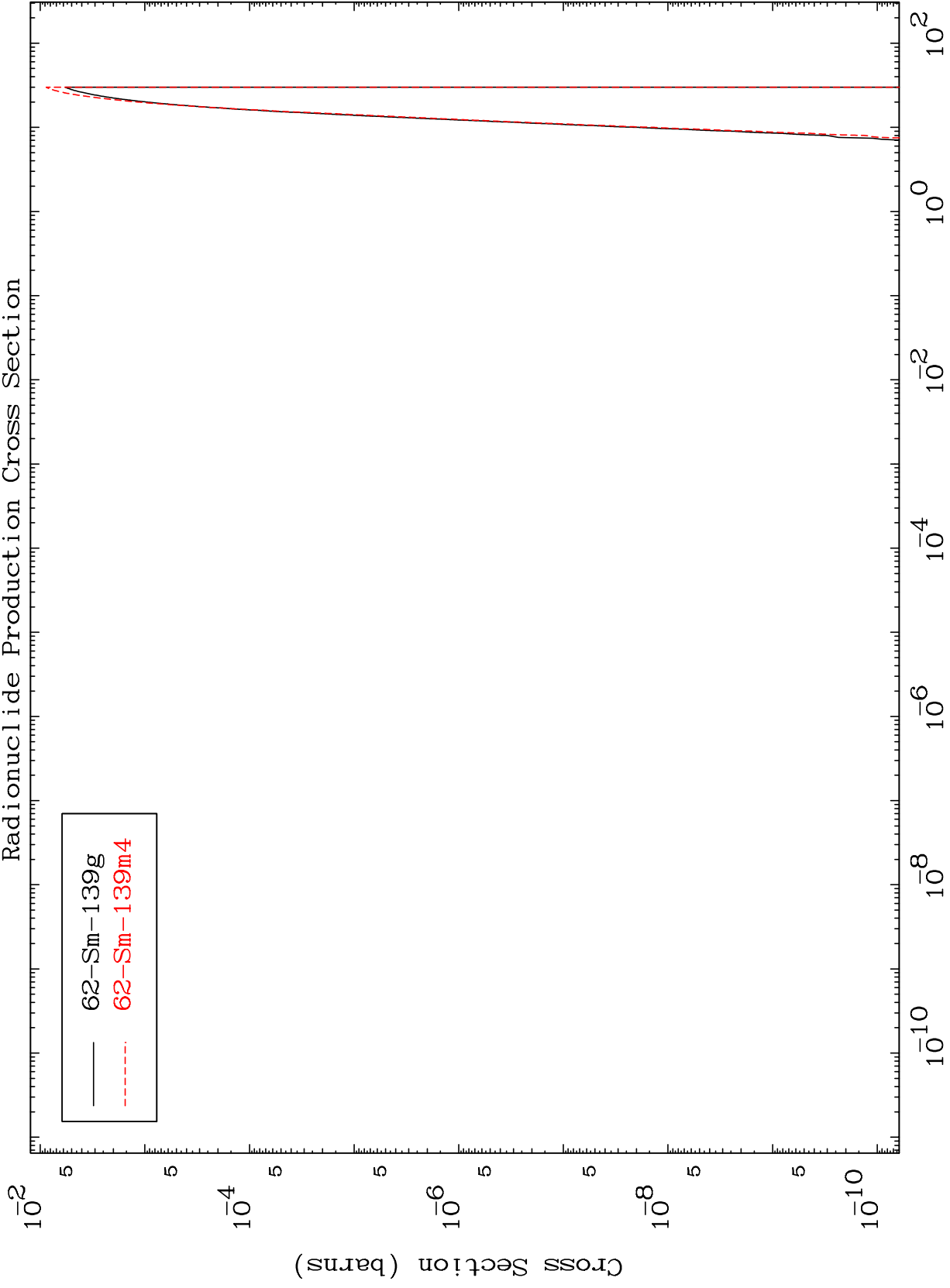
— 63-Eu-141g  
- - - 63-Eu-141m1

MAT 6392

(n,He-3)

64-Gd-141

Radionuclide Production Cross Section



92

Incident Energy (MeV)

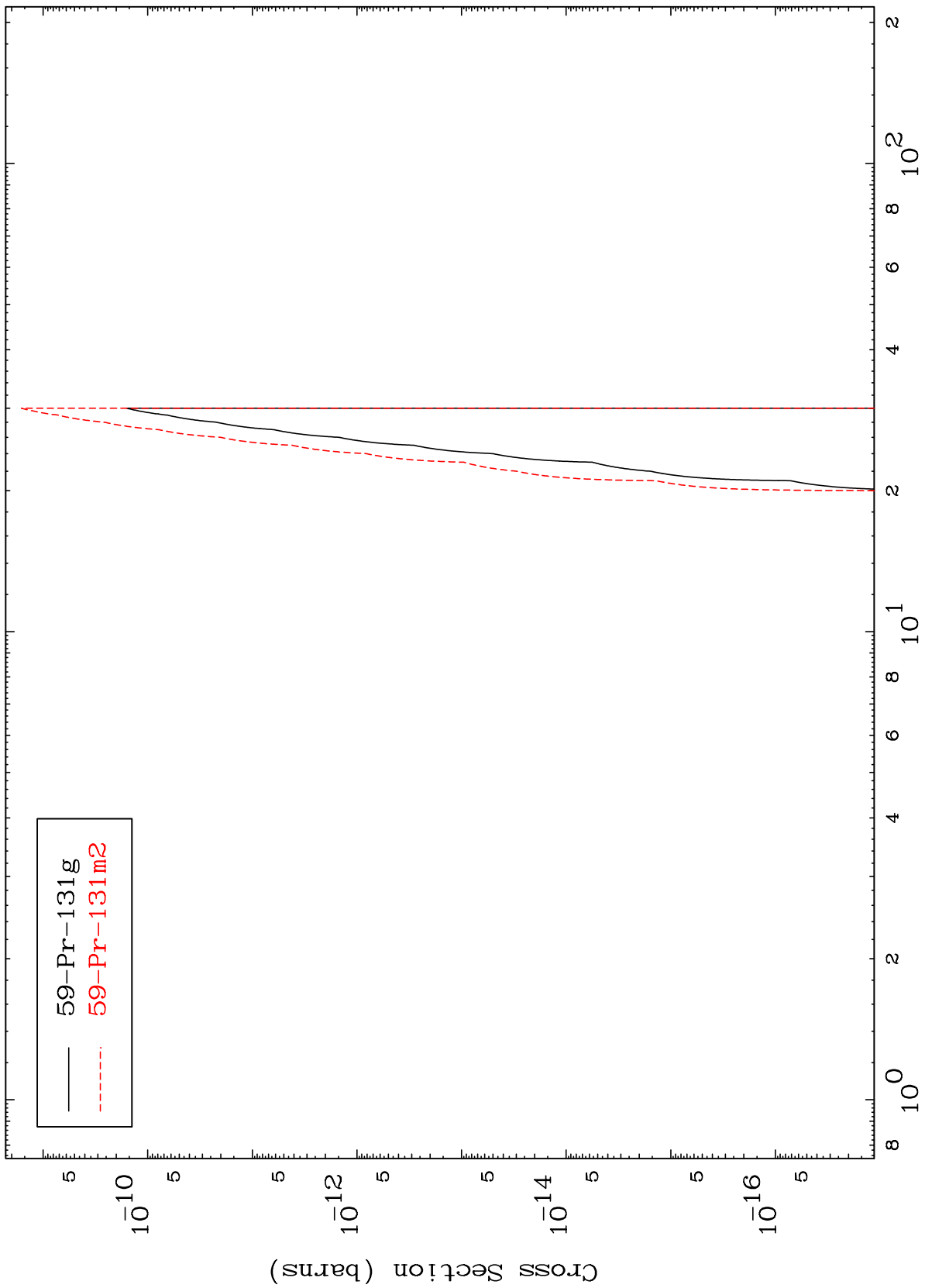
64-Gd-141

MAT 6392

(n,t) 2 $\alpha$

64-Gd-141

Radionuclide Production Cross Section



59-Pr-131g  
59-Pr-131m2

93

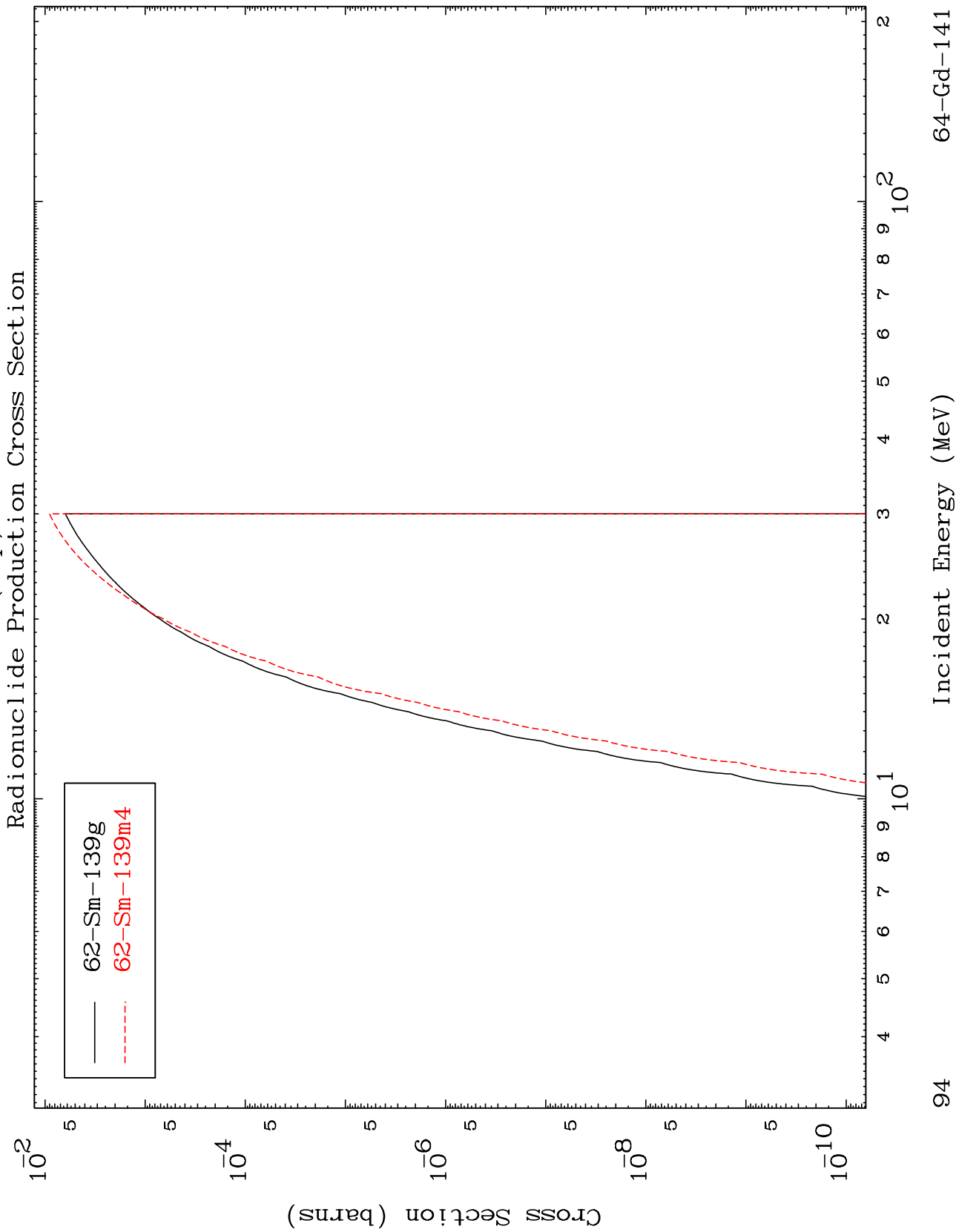
Incident Energy (MeV)

64-Gd-141

MAT 6392

(n,p) d

64-Gd-141

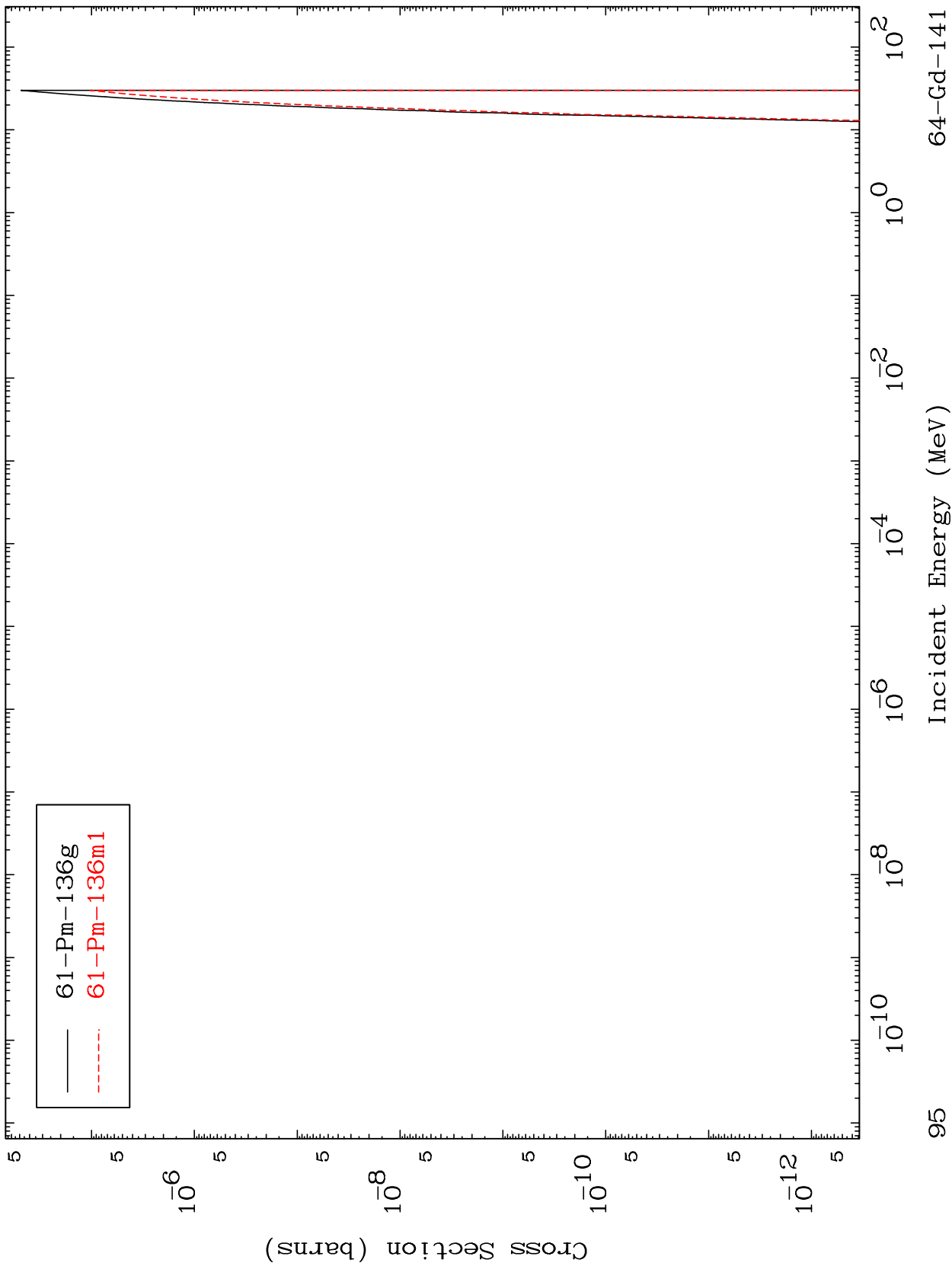


MAT 6392

(n,d)  $\alpha$

64-Gd-141

Radionuclide Production Cross Section



95

Incident Energy (MeV)

64-Gd-141