

Program EVALPLOT  
(Version 2018-1)

by

Dermott E. Cullen  
(Present Contact Information)

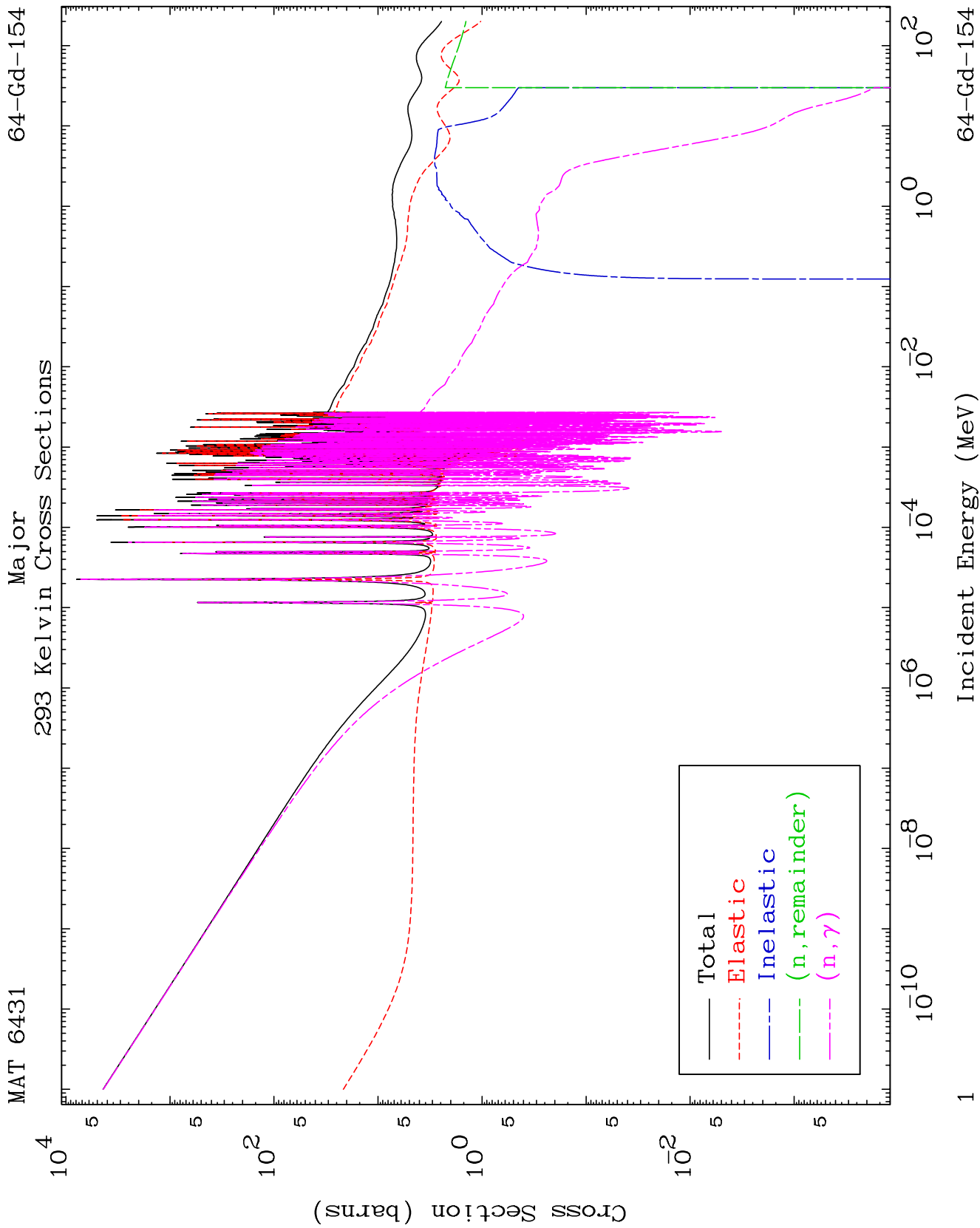
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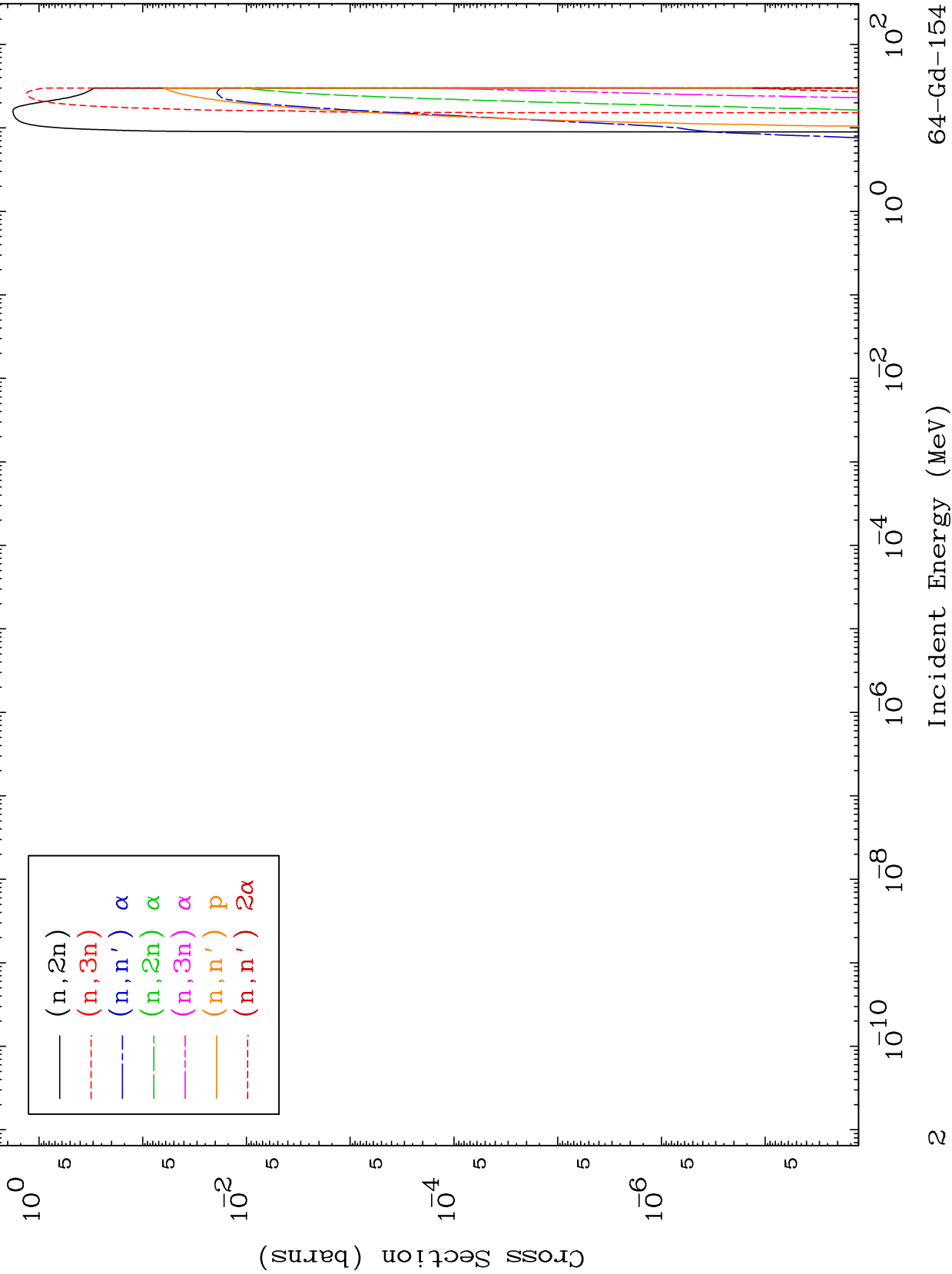
Press Mouse Button to Start

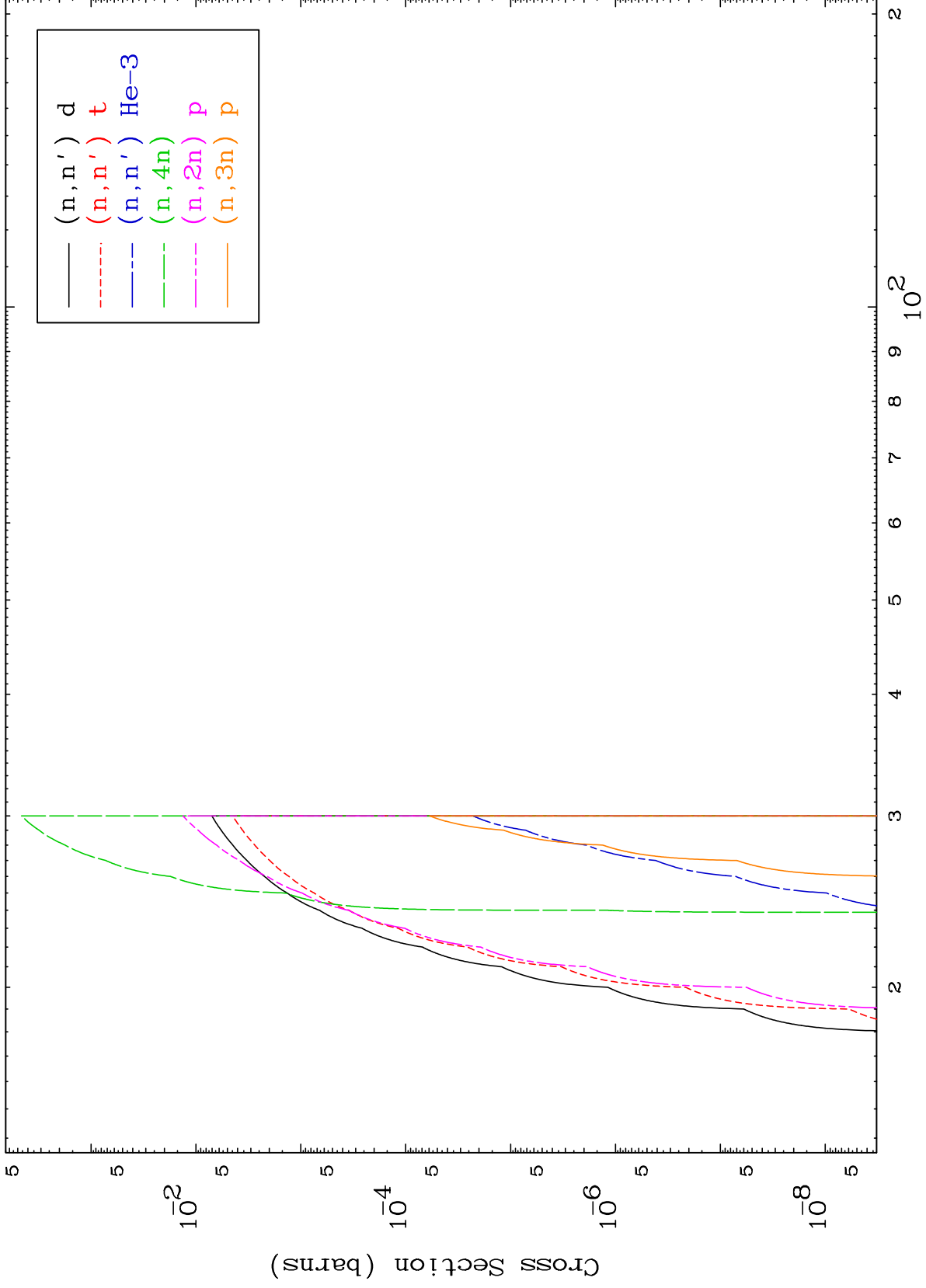


MAT 6431

Neutron Production  
293 Kelvin Cross Sections

64-Gd-154

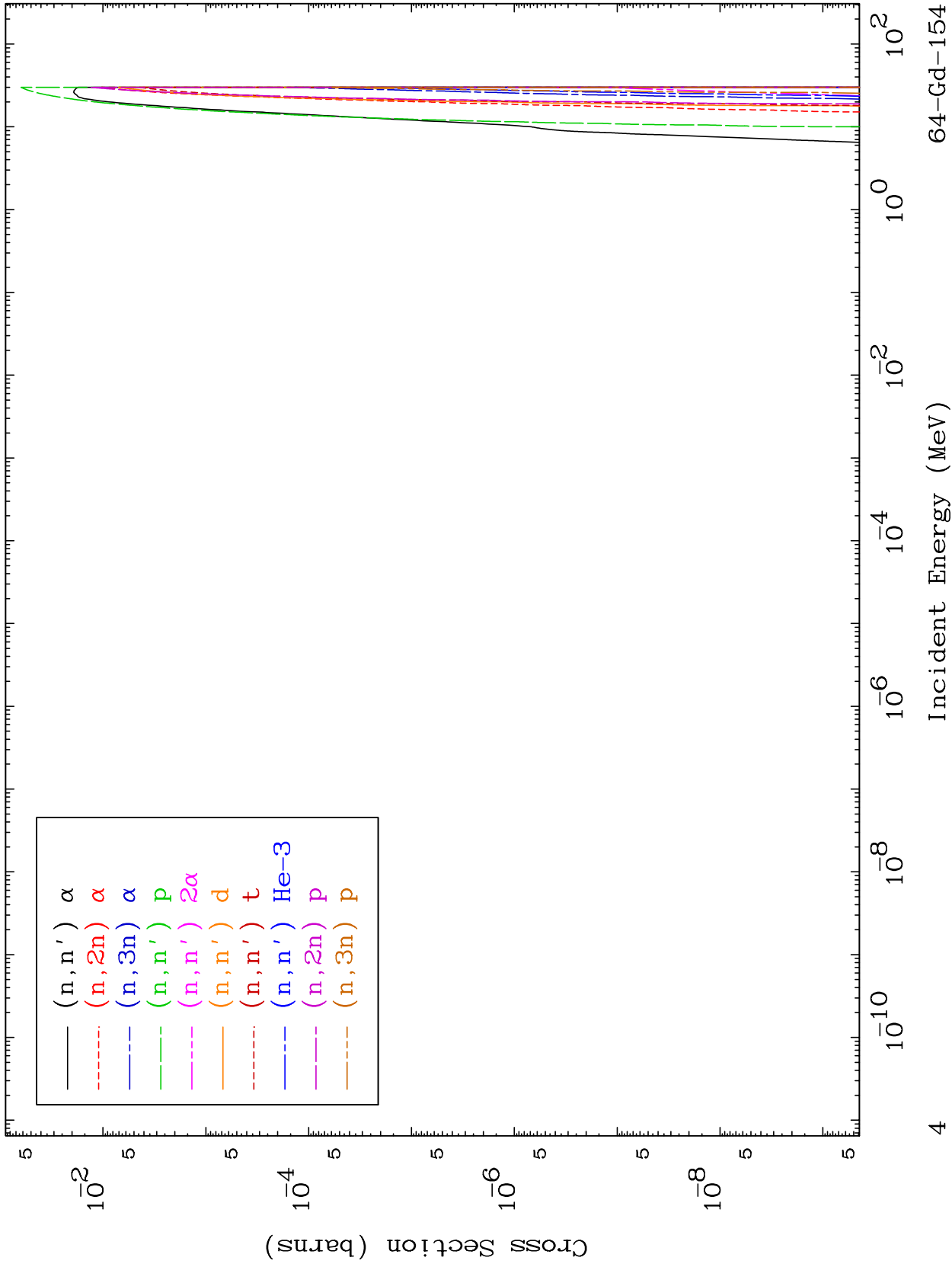




MAT 6431

Charged Particle  
293 Kelvin Cross Sections

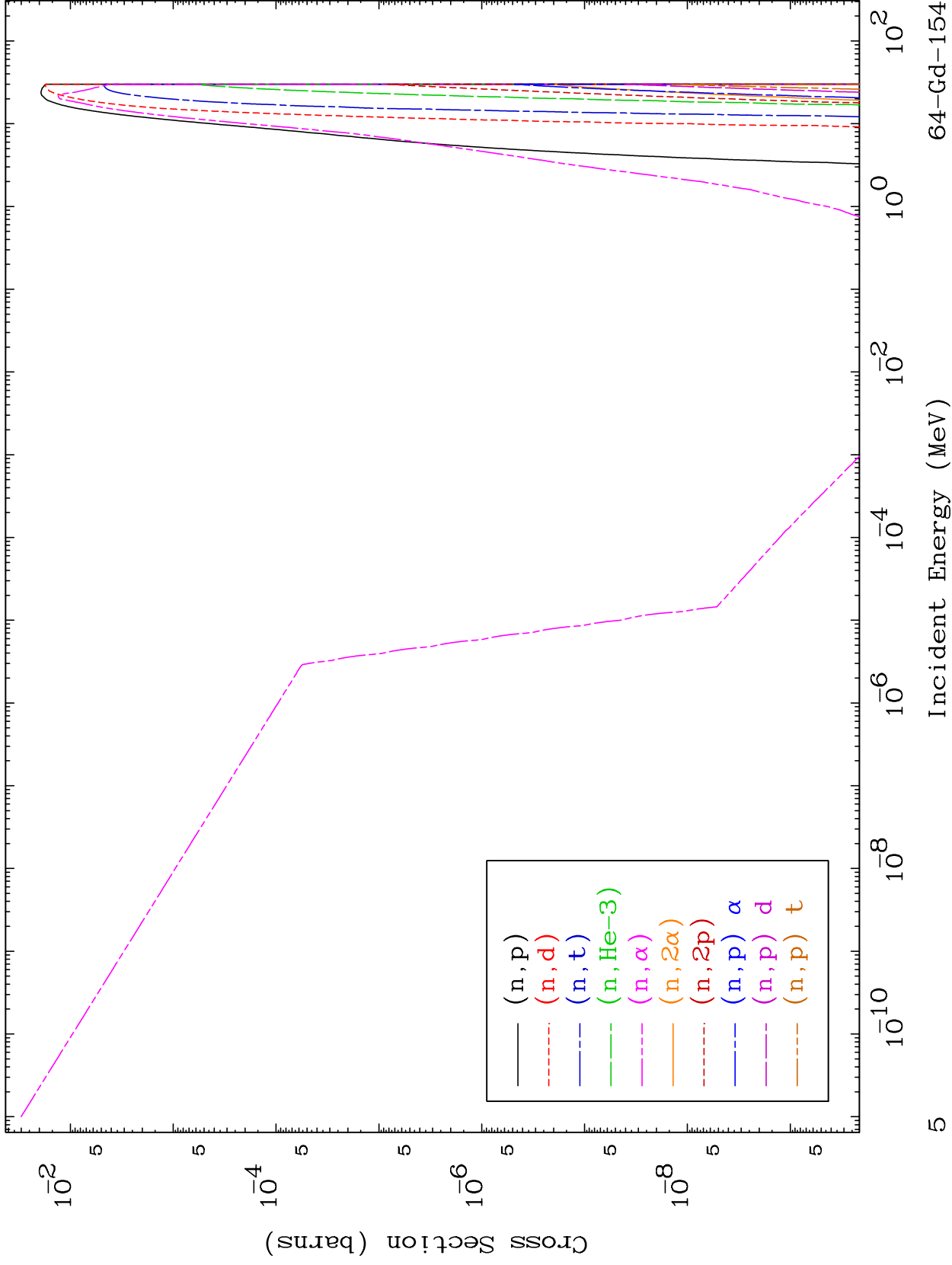
64-Gd-154



MAT 6431

Charged Particle  
293 Kelvin Cross Sections

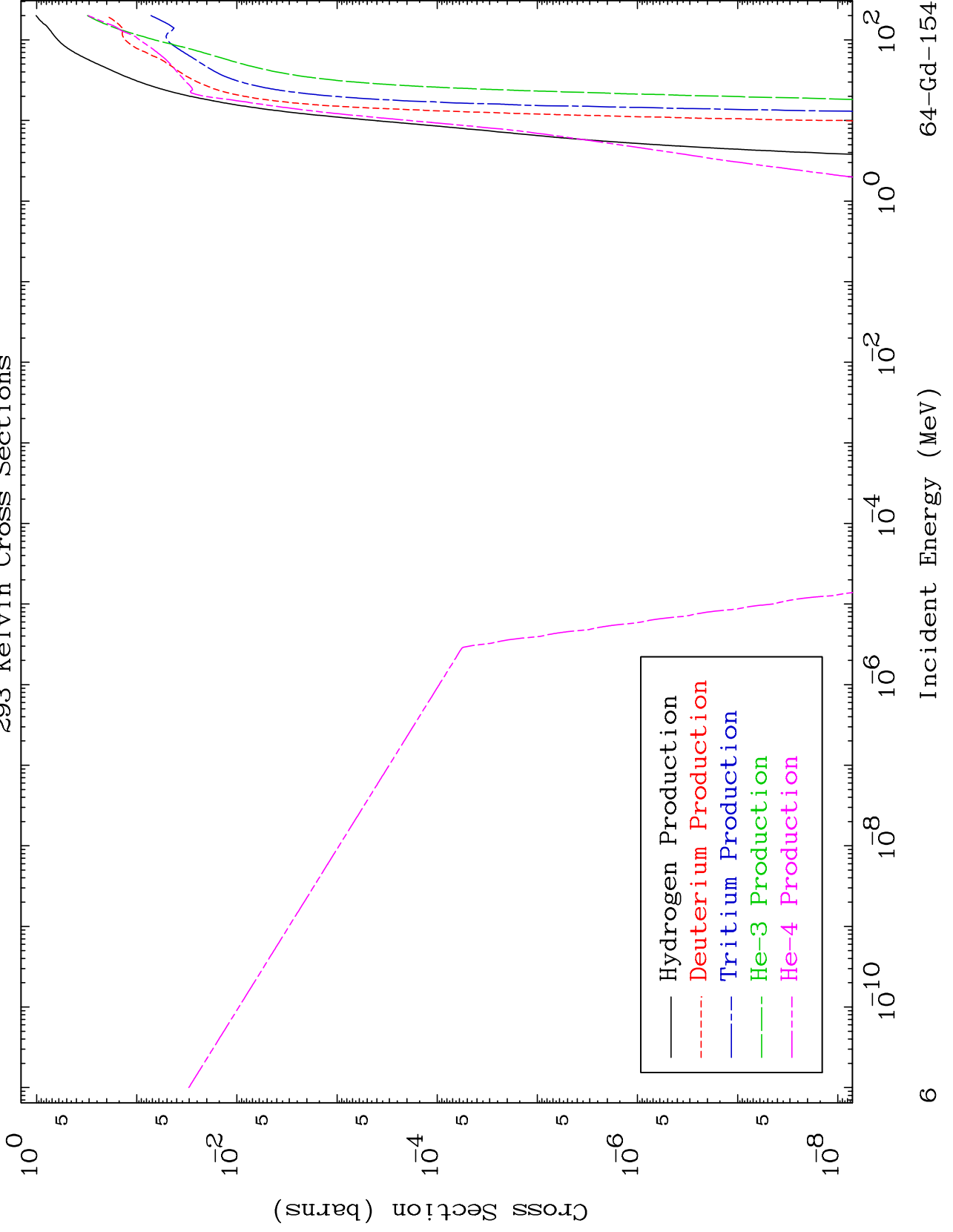
64-Gd-154



MAT 6431

Particle Production  
293 Kelvin Cross Sections

64-Gd-154

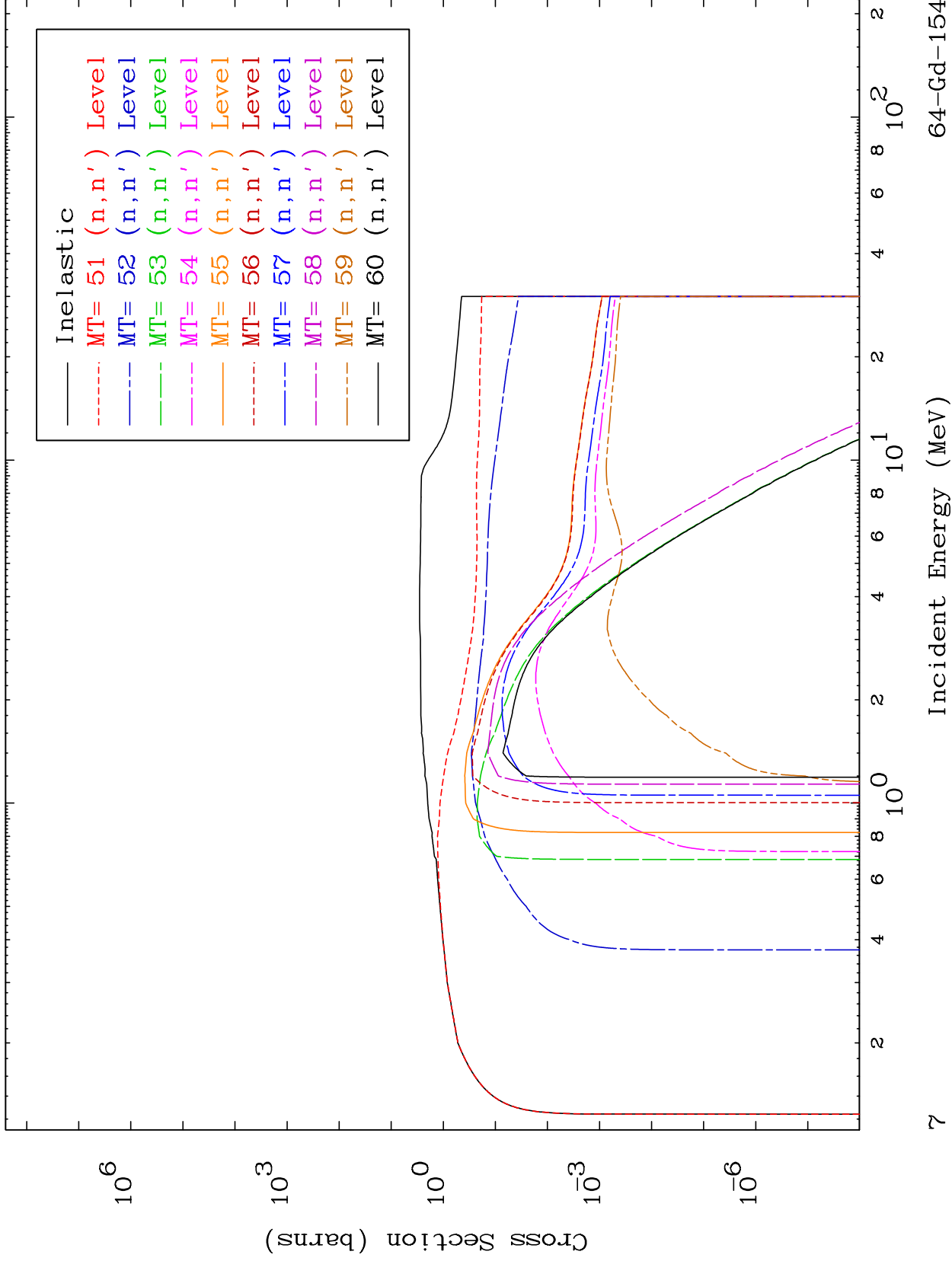


MAT 6431

(n,n') Level

64-Gd-154

293 Kelvin Cross Sections



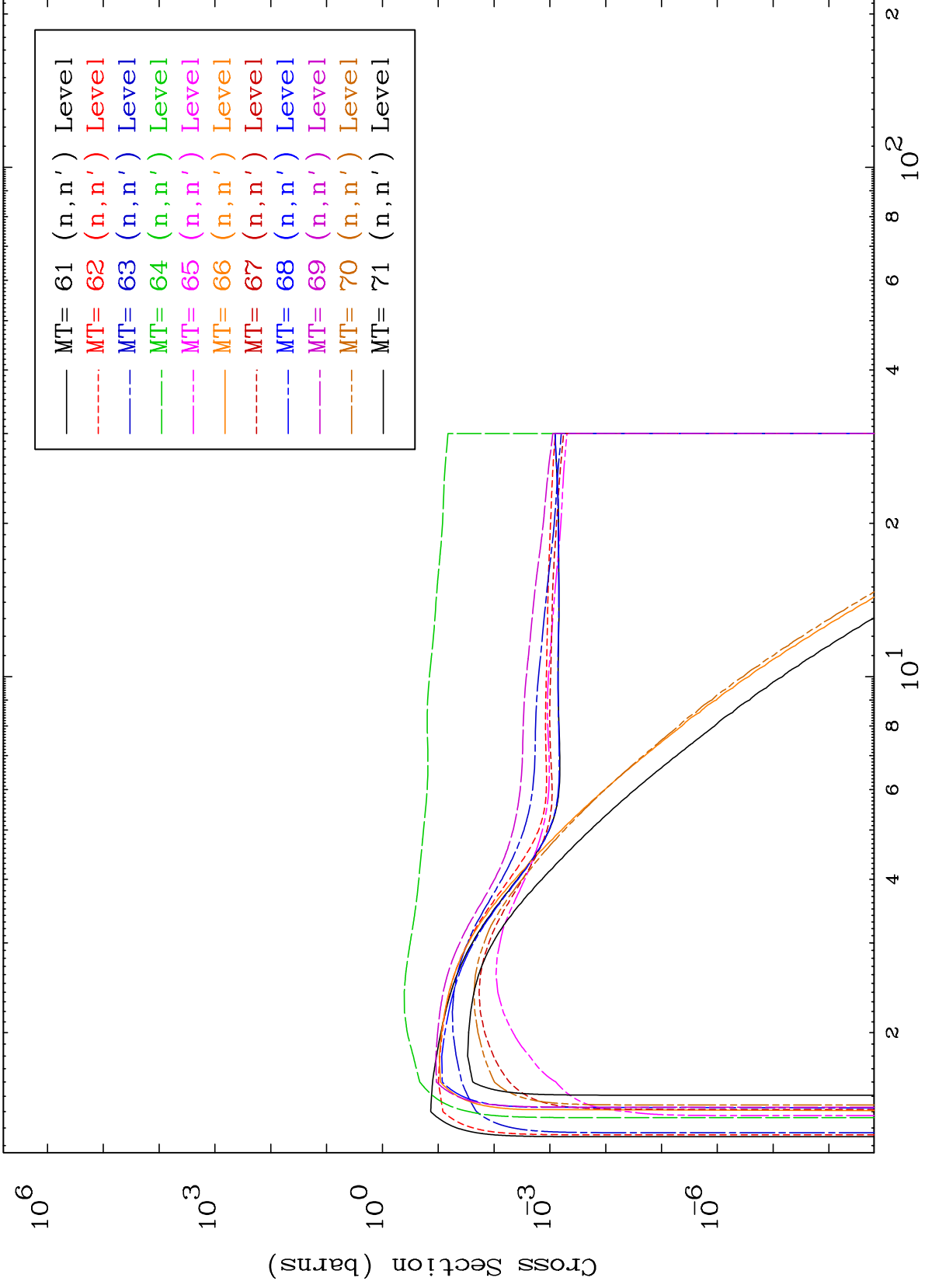


MAT 6431

(n,n') Level

64-Gd-154

293 Kelvin Cross Sections



8

Incident Energy (MeV)

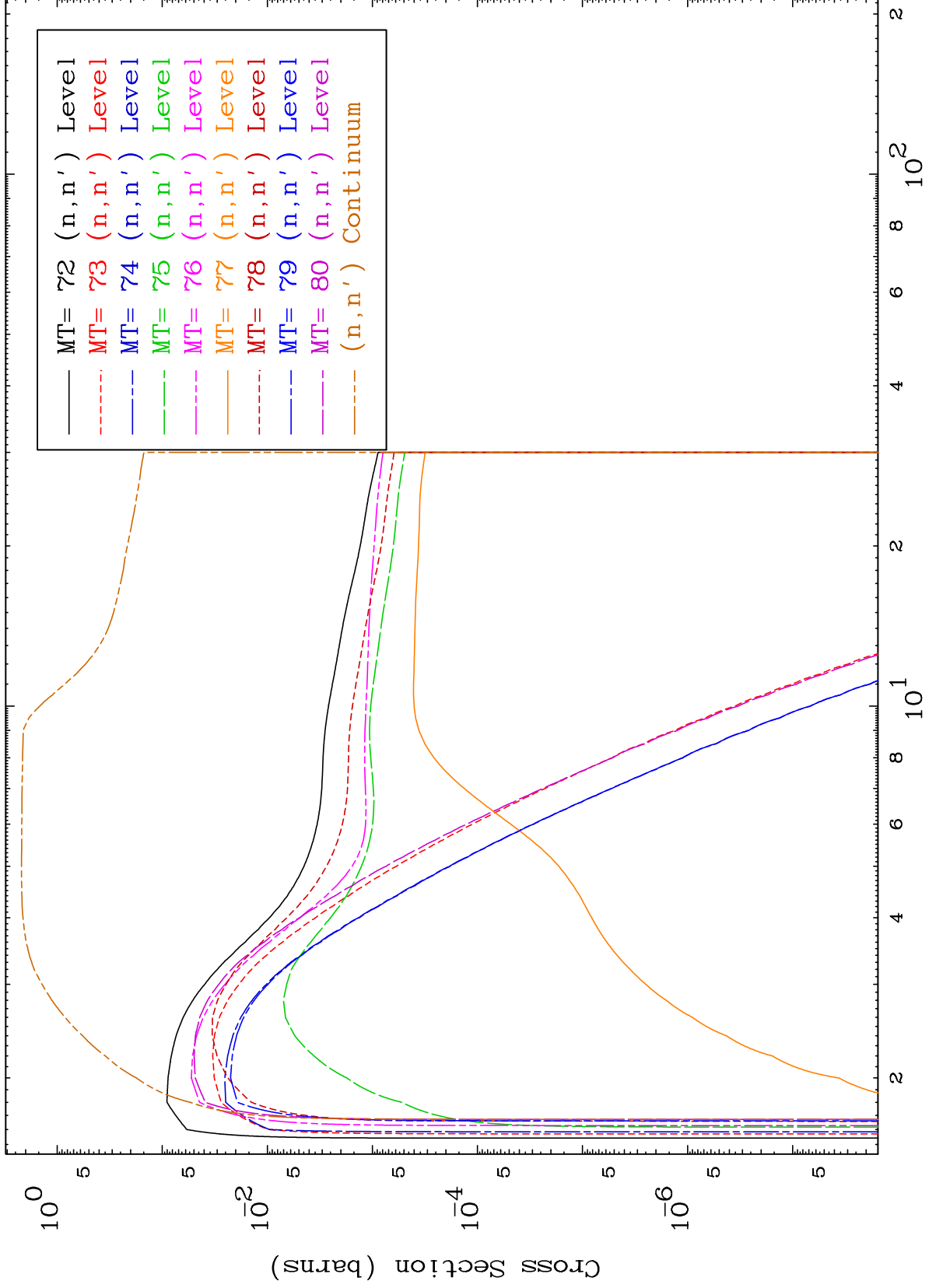
64-Gd-154

MAT 6431

(n,n') Level

64-Gd-154

293 Kelvin Cross Sections



9

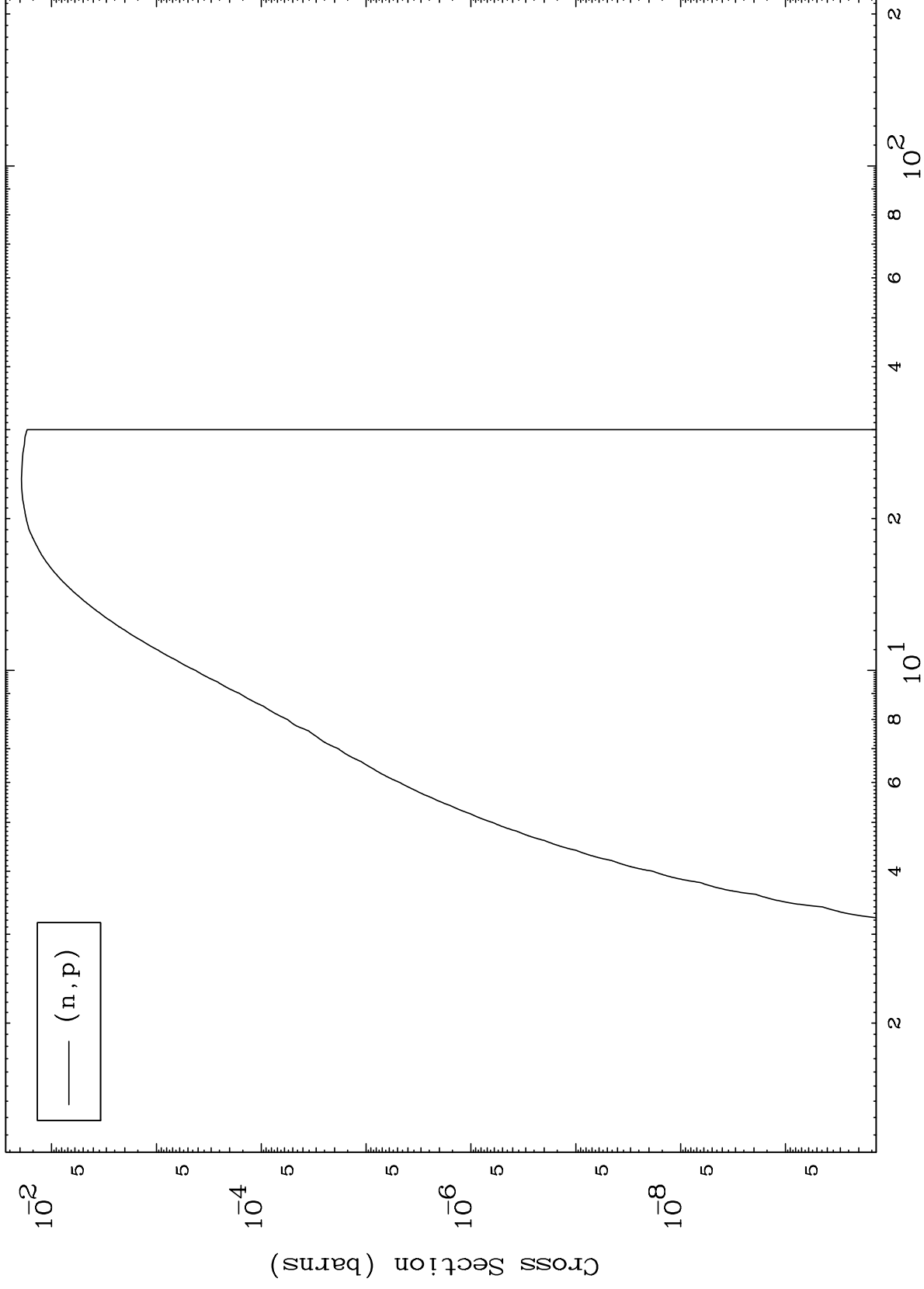
Incident Energy (MeV)

64-Gd-154

MAT 6431

(n,p) Levels  
293 Kelvin Cross Sections

64-Gd-154



10

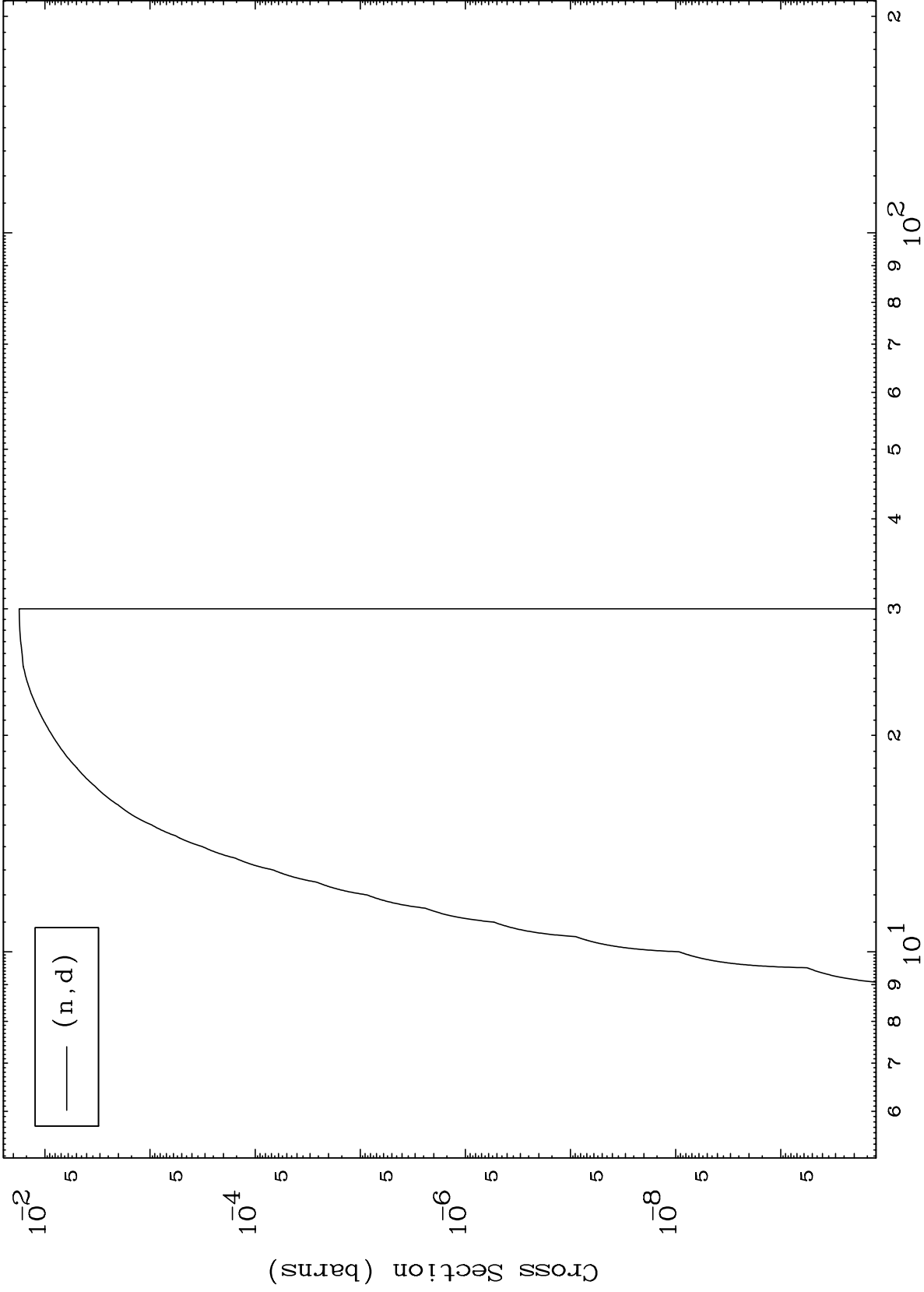
Incident Energy (MeV)

64-Gd-154

MAT 6431

(n,d) Levels  
293 Kelvin Cross Sections

64-Gd-154



11

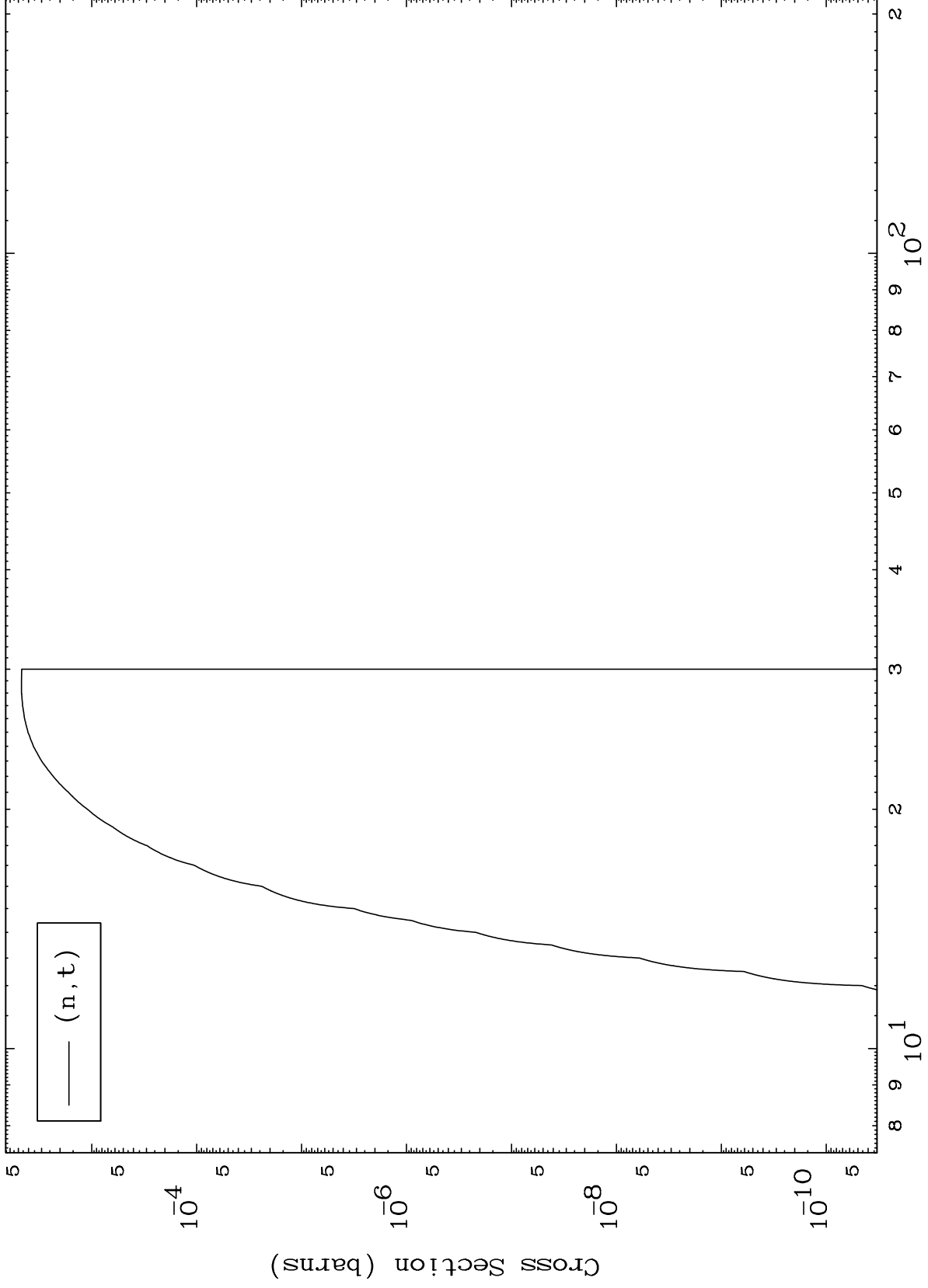
Incident Energy (MeV)

64-Gd-154

MAT 6431

(n,t) Levels  
293 Kelvin Cross Sections

64-Gd-154



12

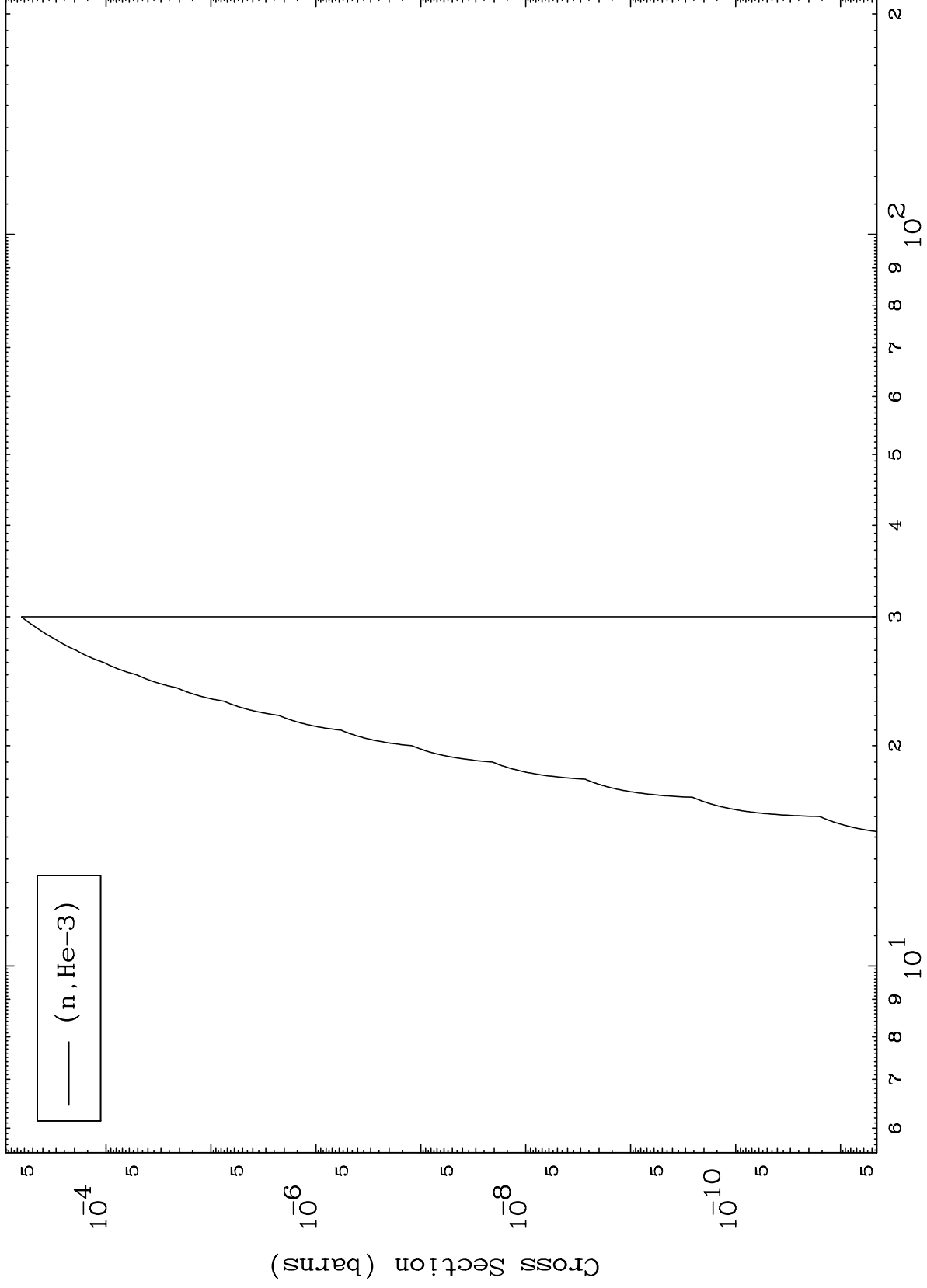
Incident Energy (MeV)

64-Gd-154

MAT 6431

(n,He3) Levels  
293 Kelvin Cross Sections

64-Gd-154



13

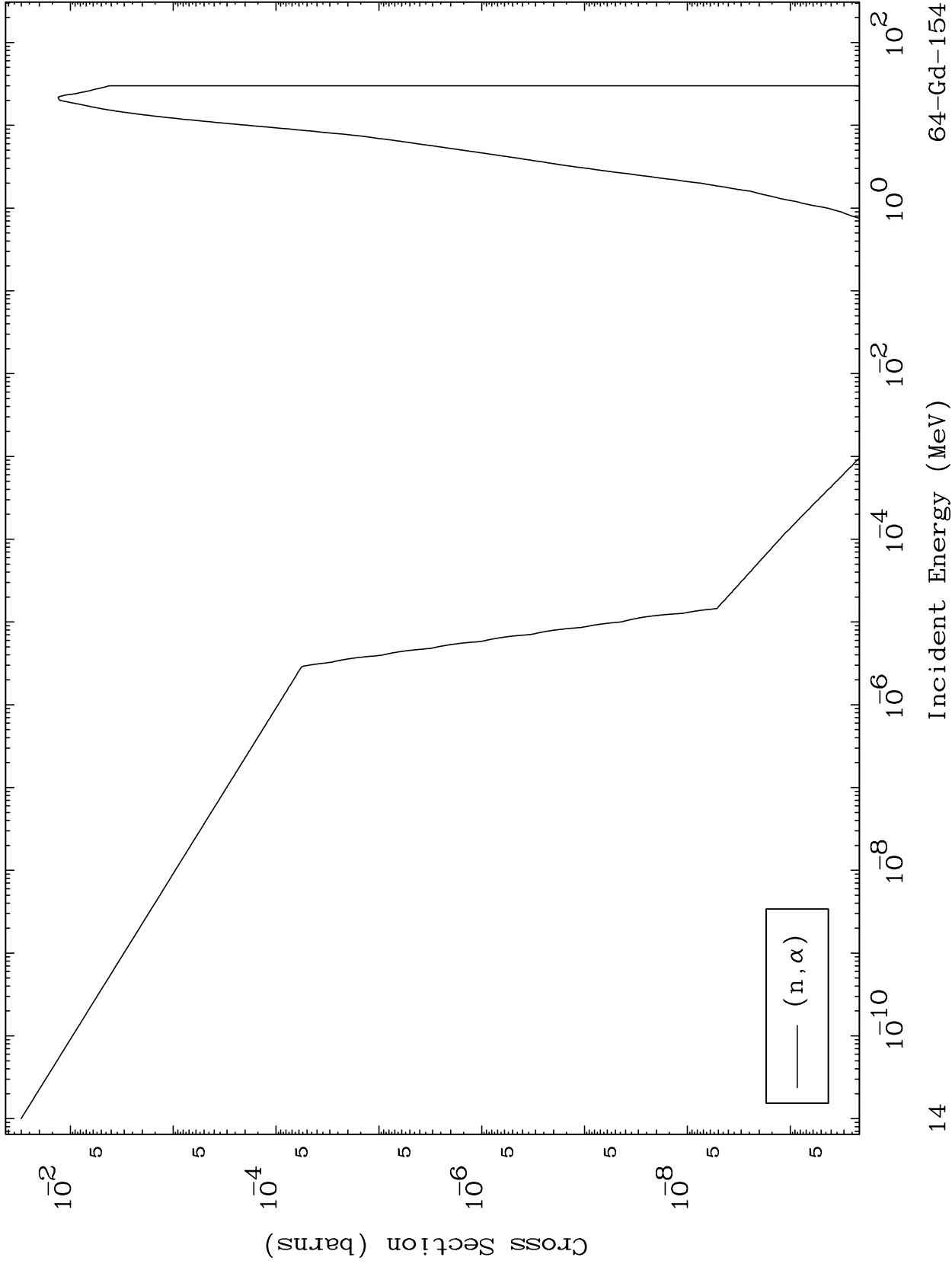
Incident Energy (MeV)

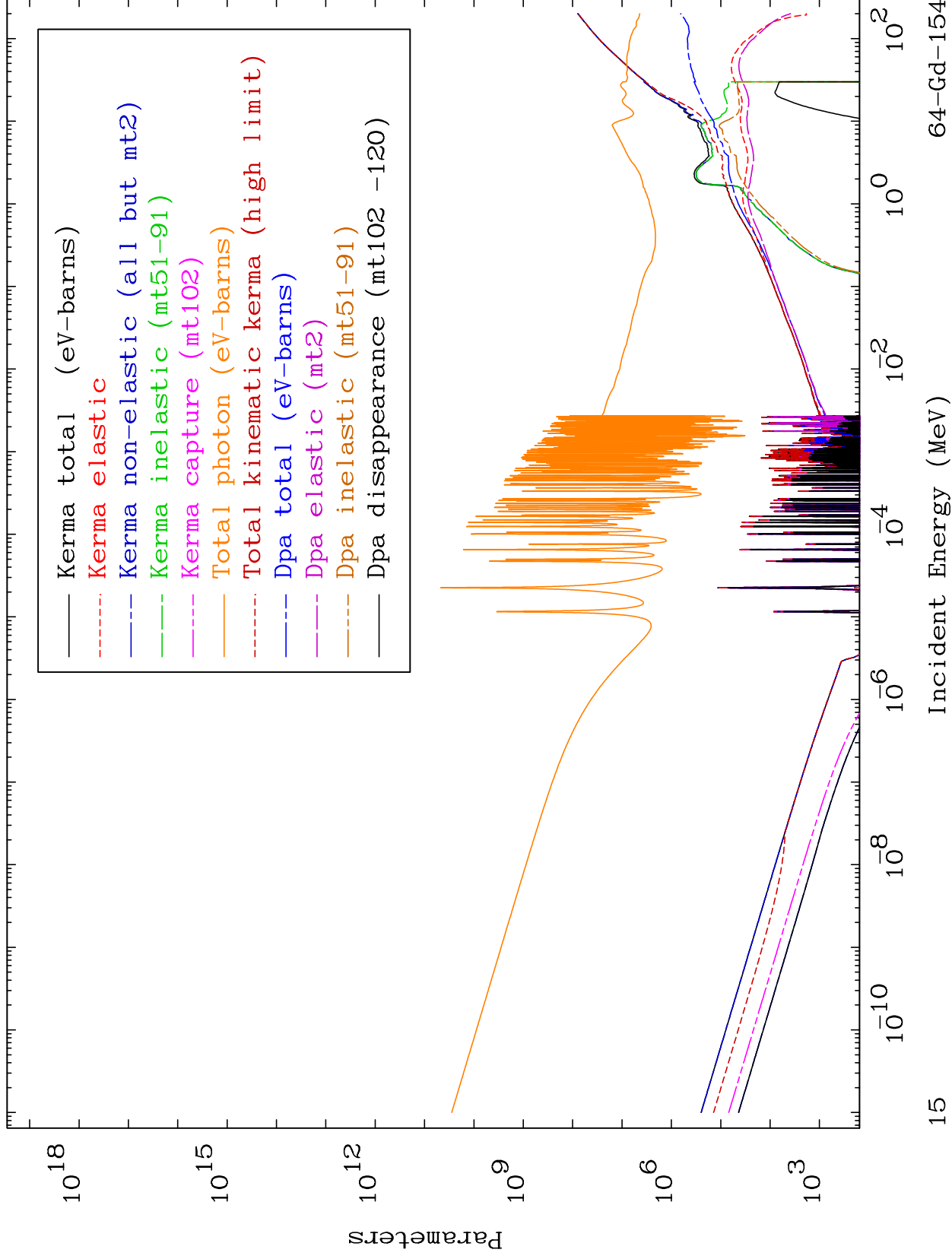
64-Gd-154

MAT 6431

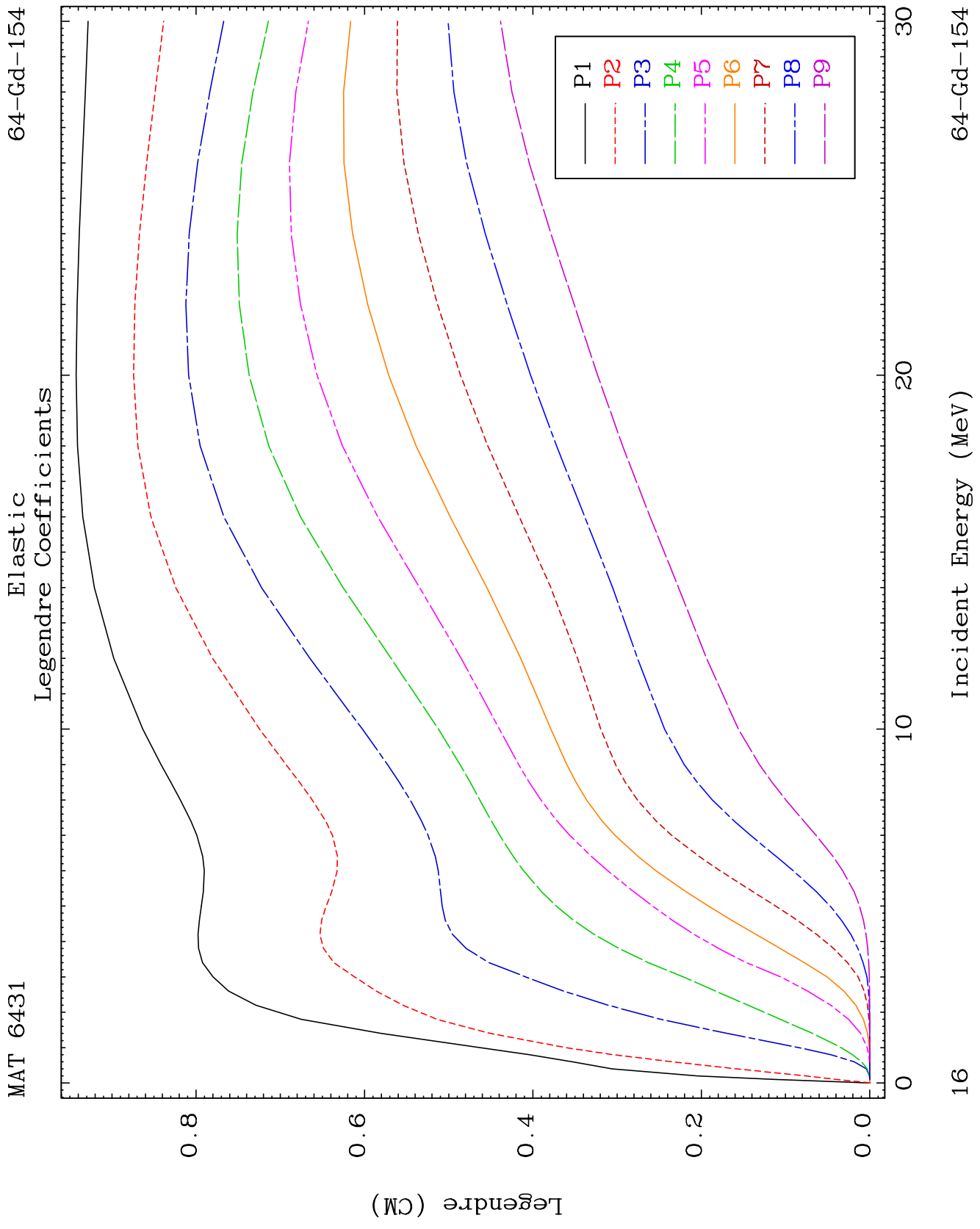
(n,  $\alpha$ ) Levels  
293 Kelvin Cross Sections

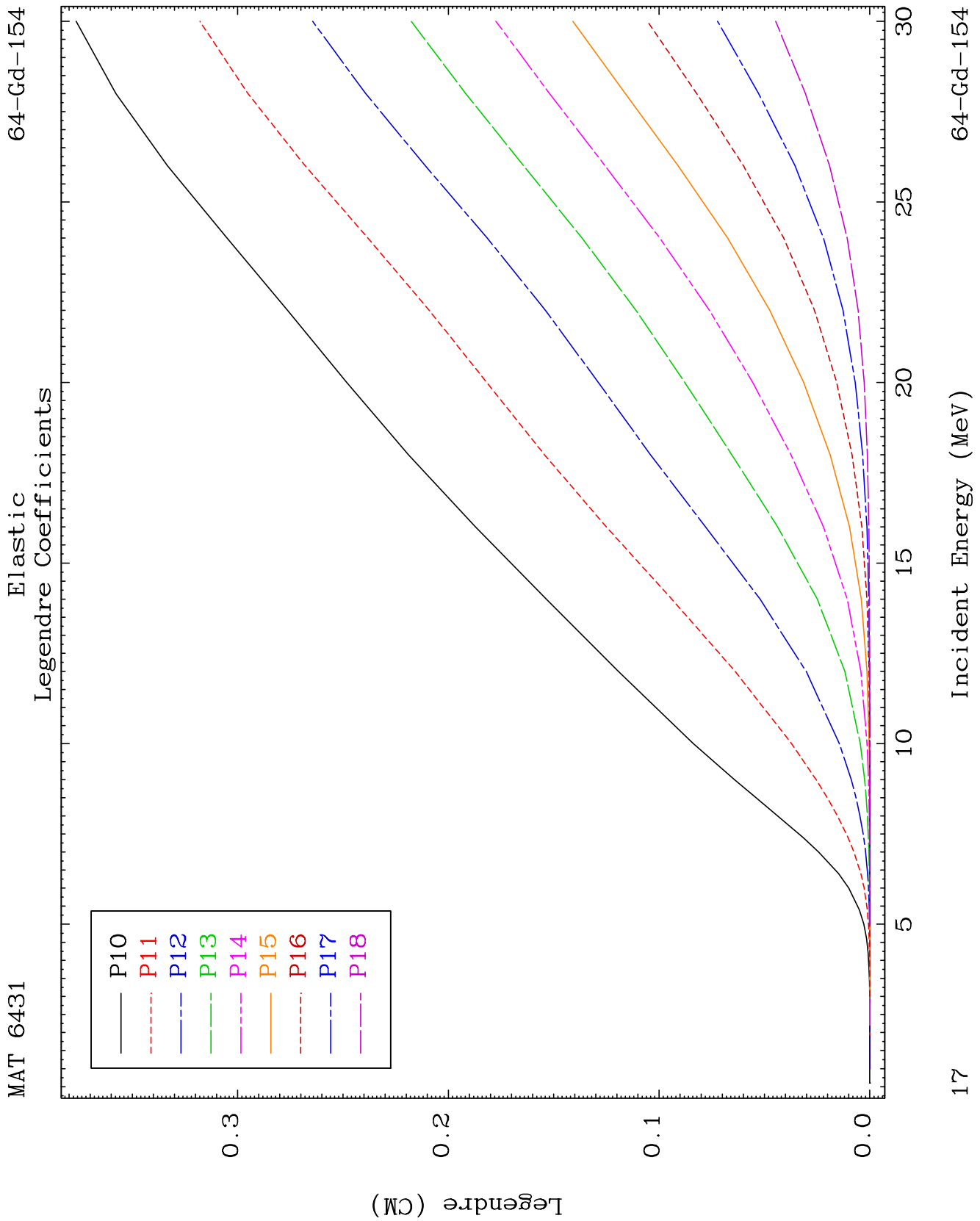
64-Gd-154

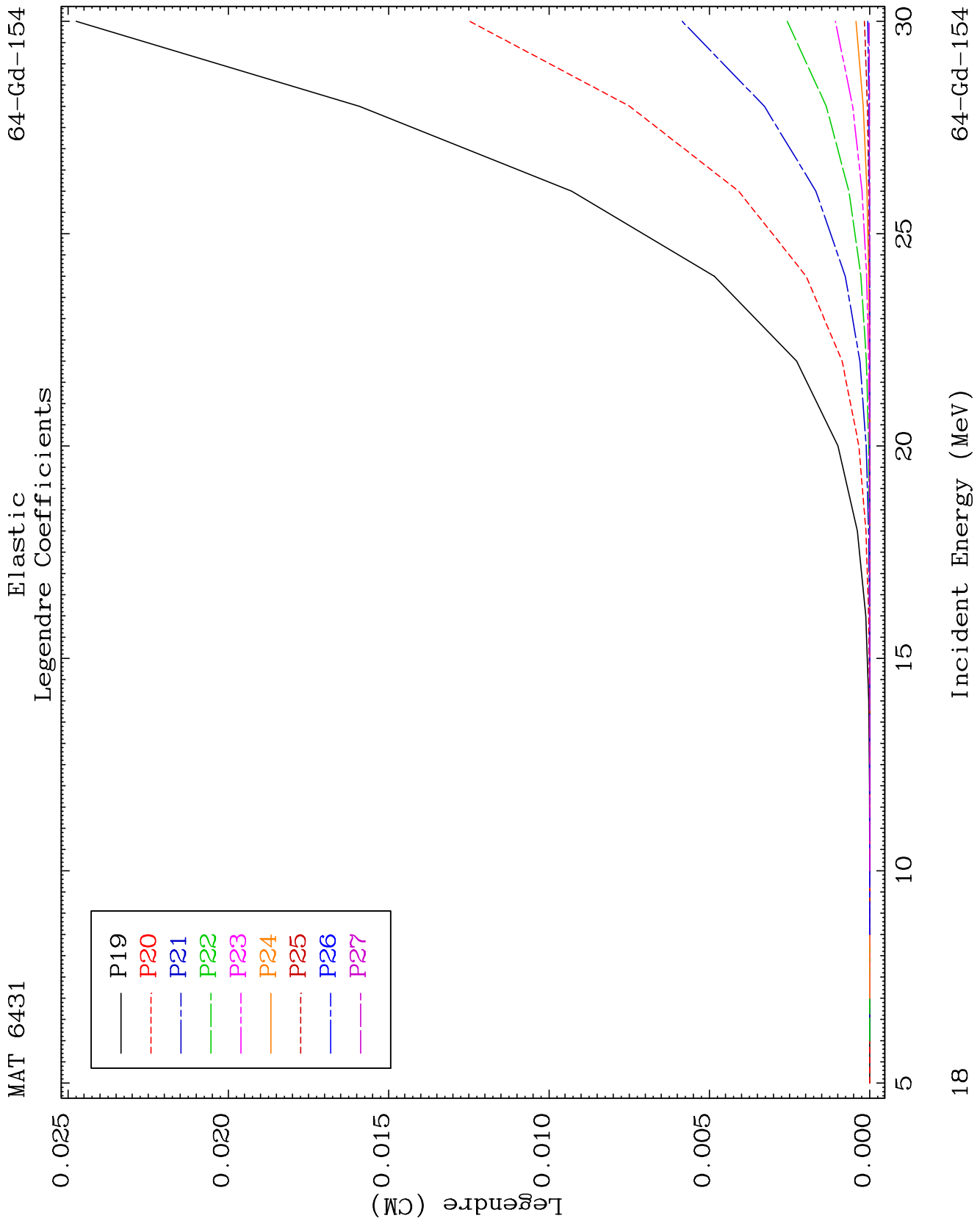








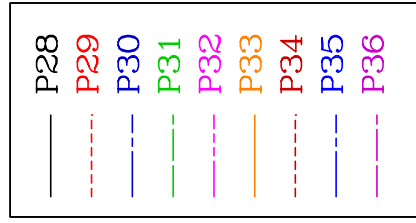




MAT 6431

Elastic  
Legendre Coefficients

64-Gd-154



$\times 10^{-6}$

Legendre (CM)

6

4

2

0

15

20

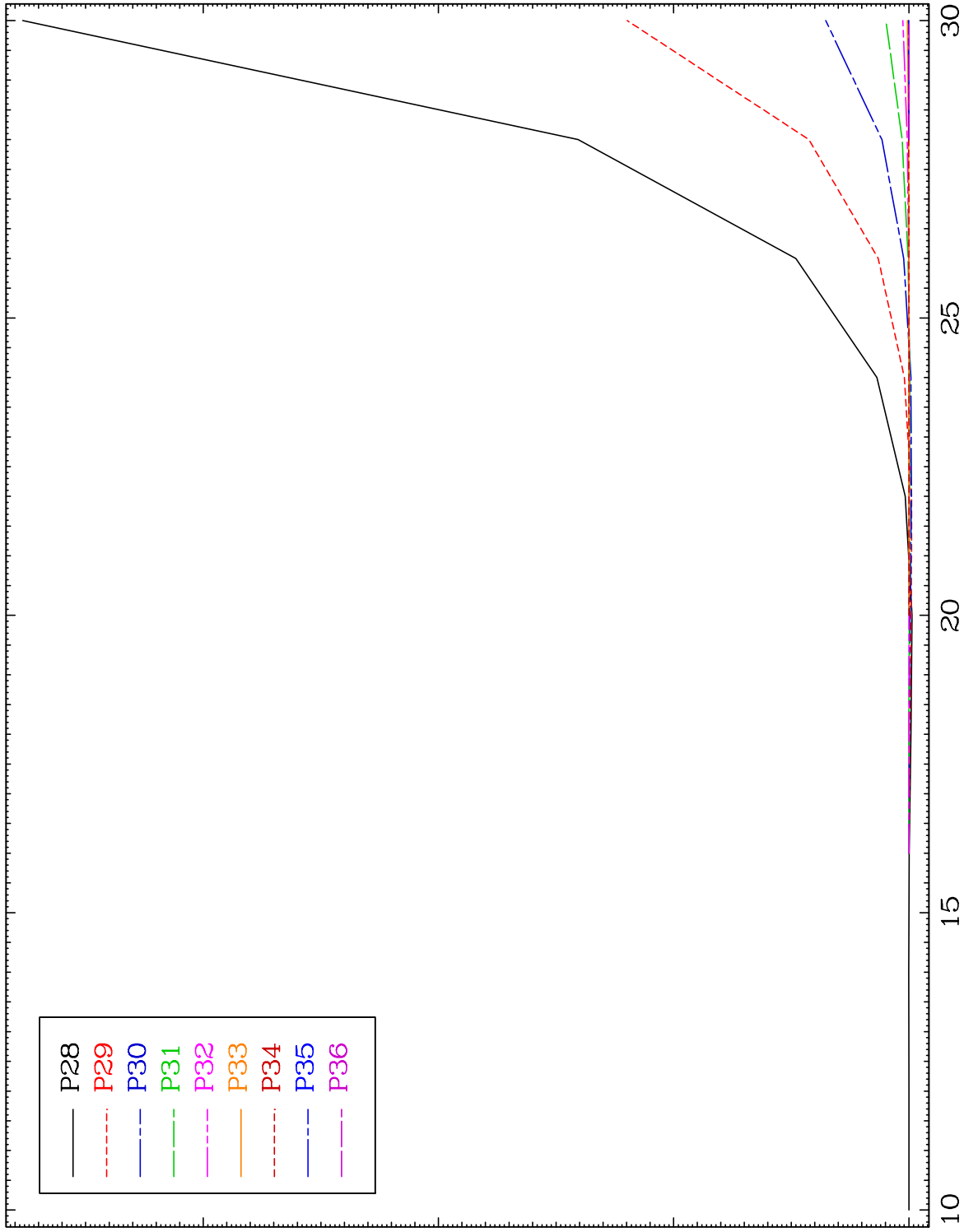
25

30

19

Incident Energy (MeV)

64-Gd-154

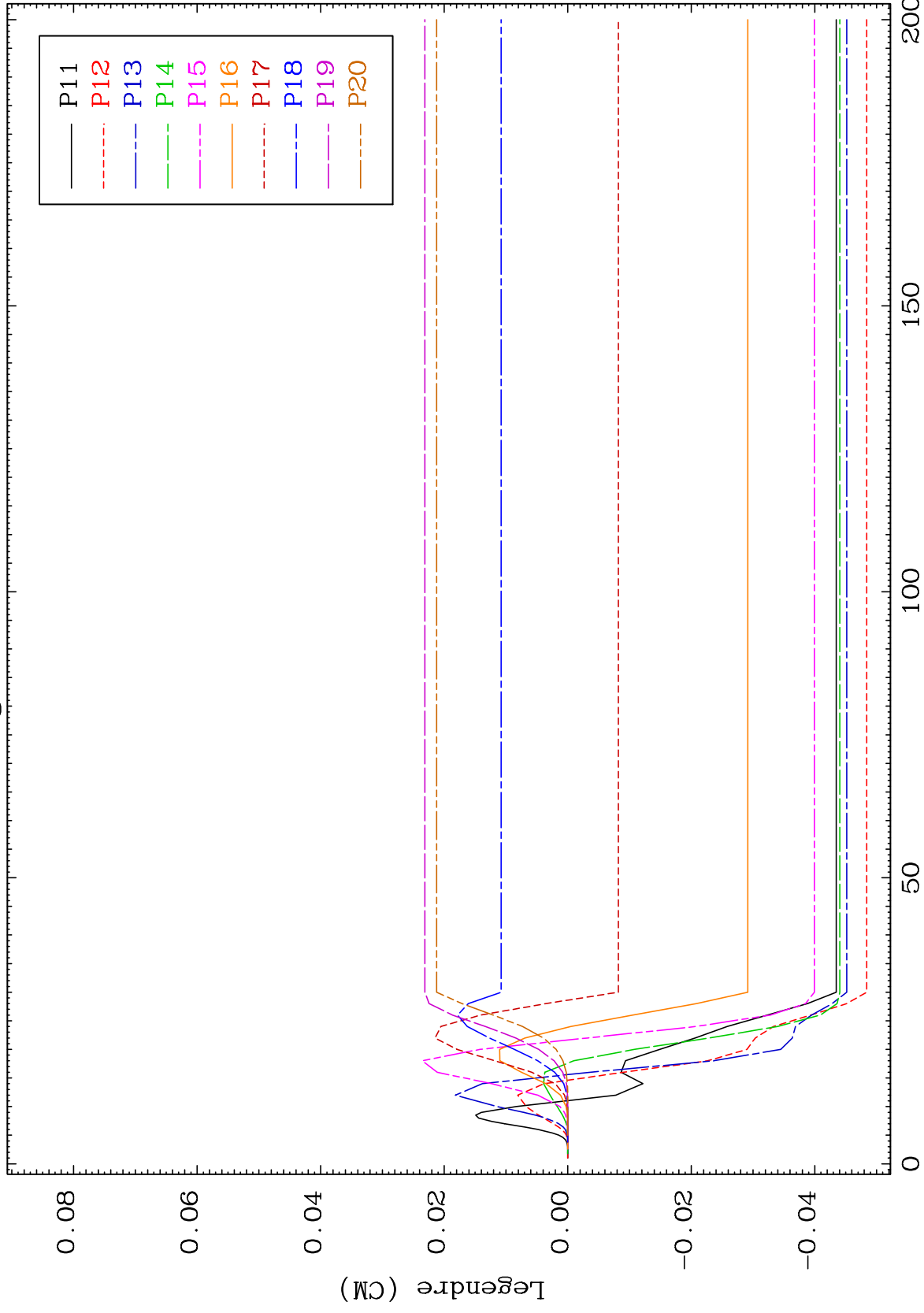




MAT 6431

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

64-Gd-154



21

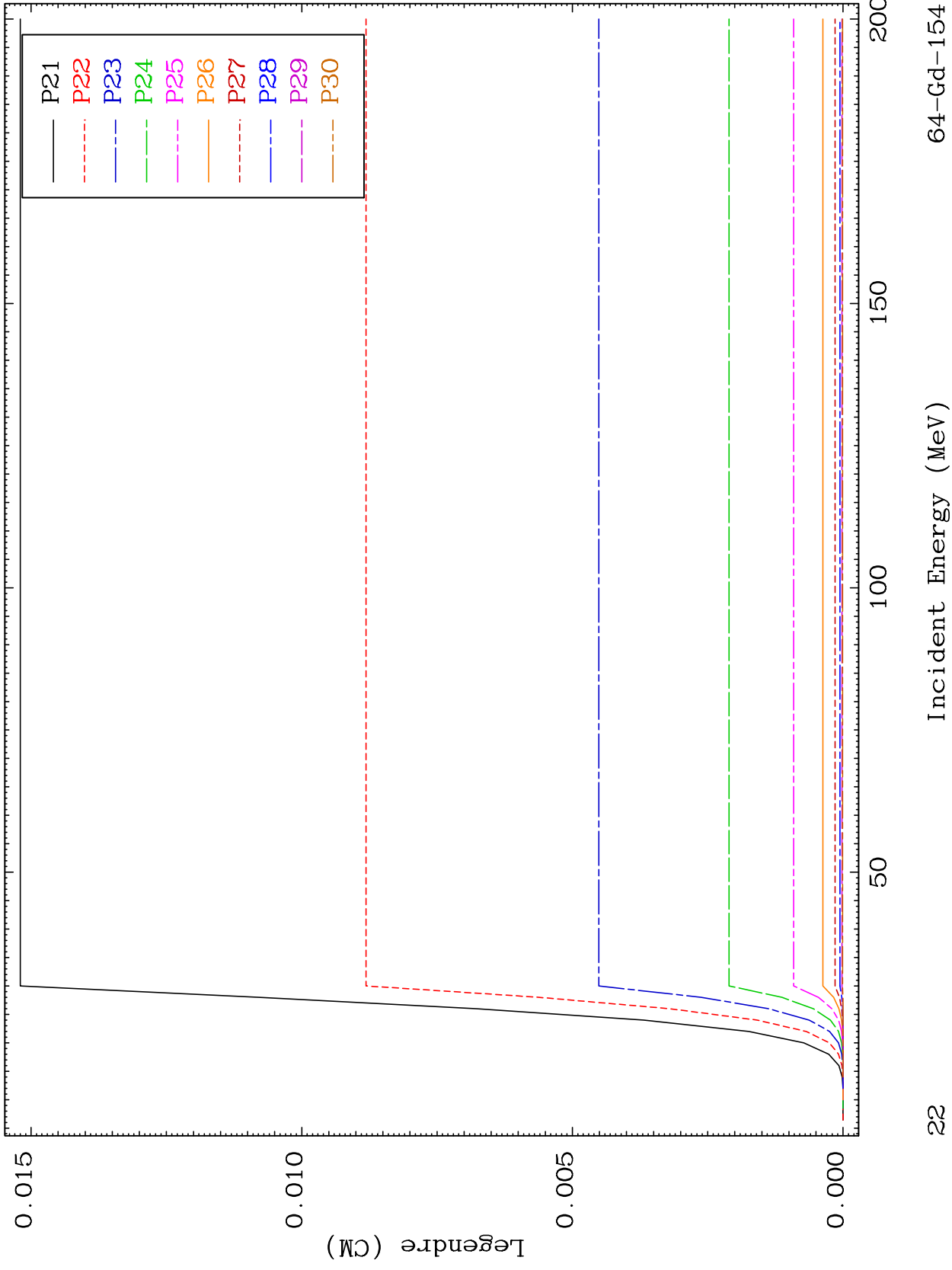
Incident Energy (MeV)

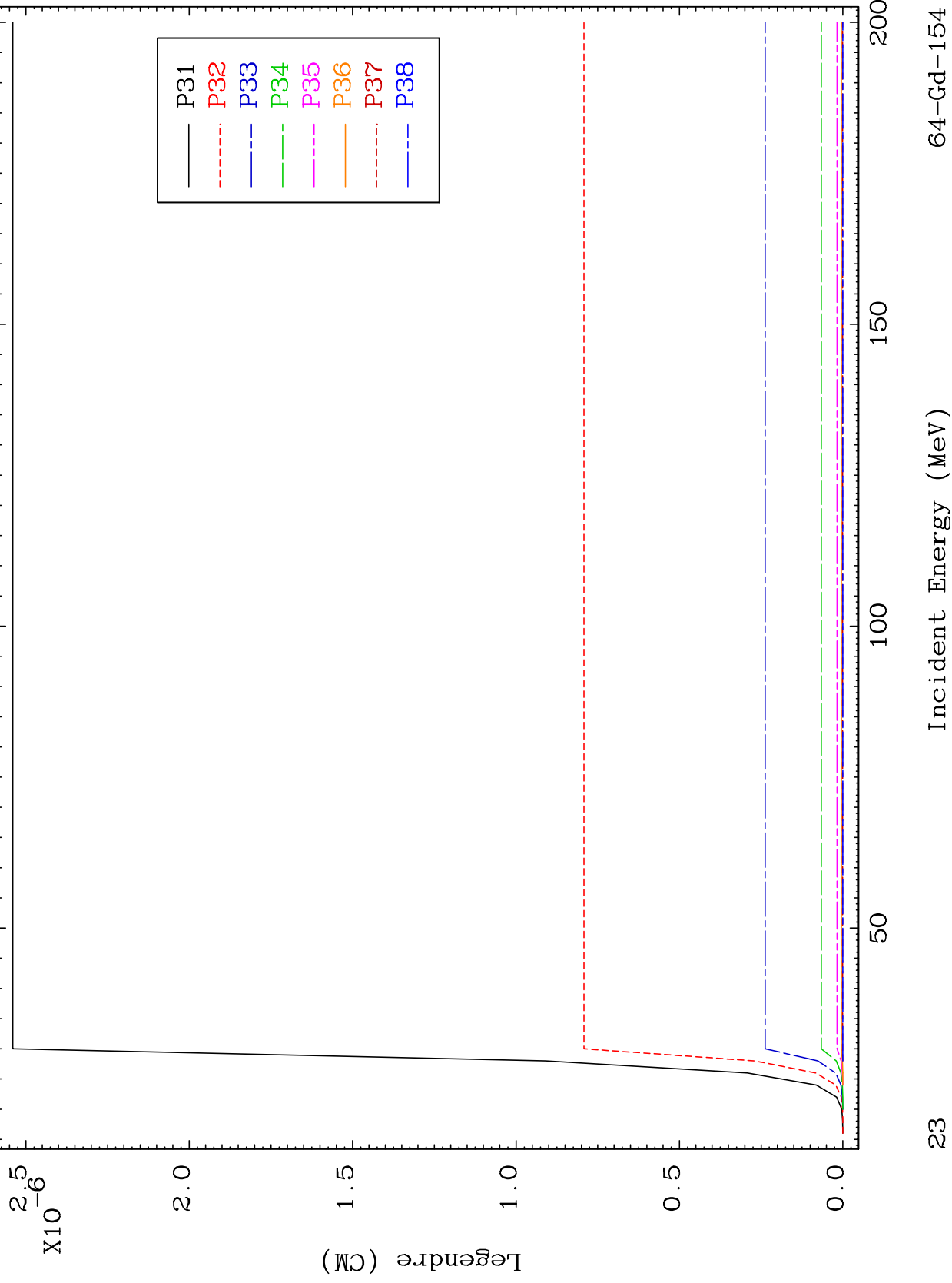
64-Gd-154

MAT 6431

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

64-Gd-154



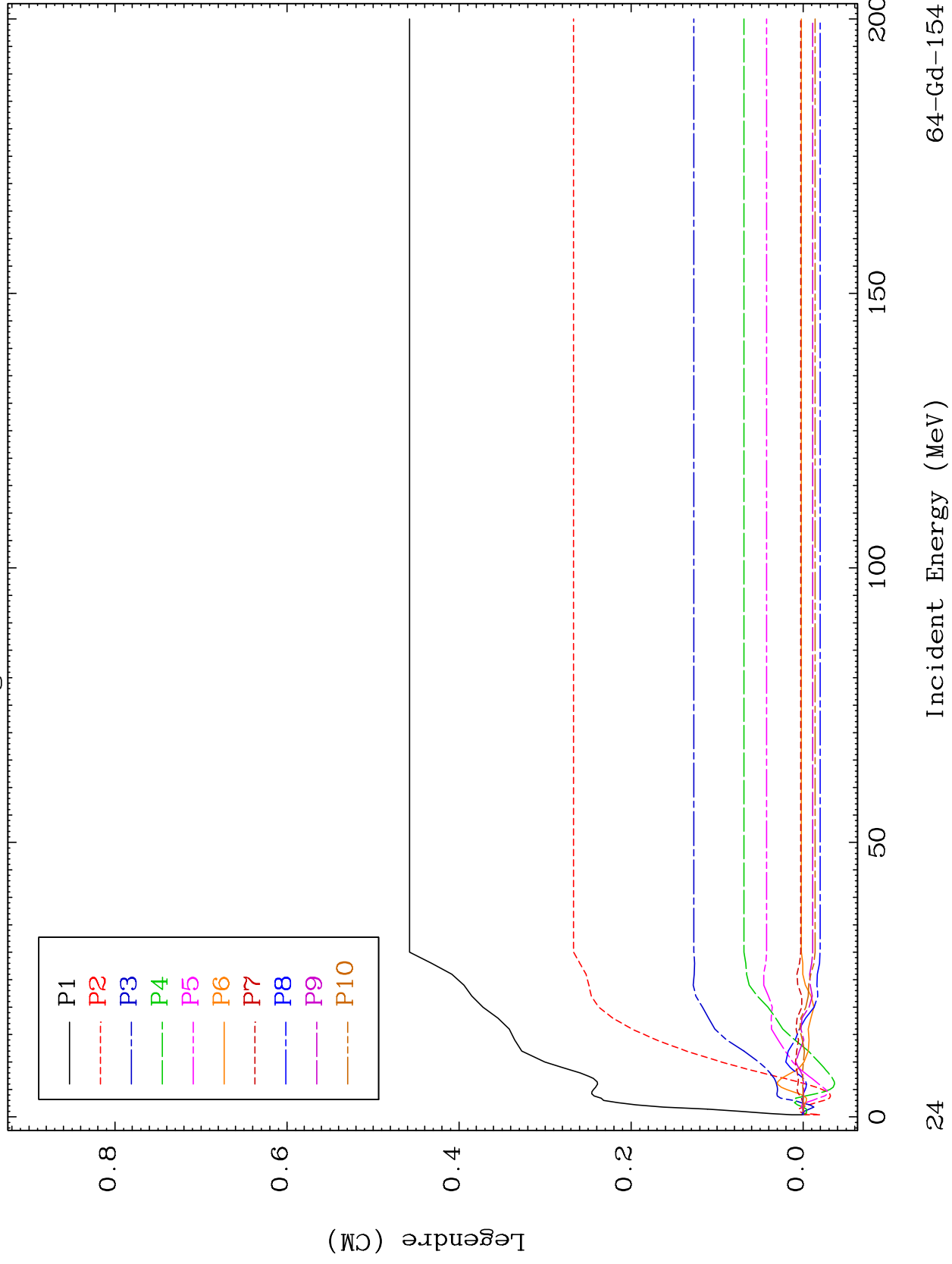




MAT 6431

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

64-Gd-154



24

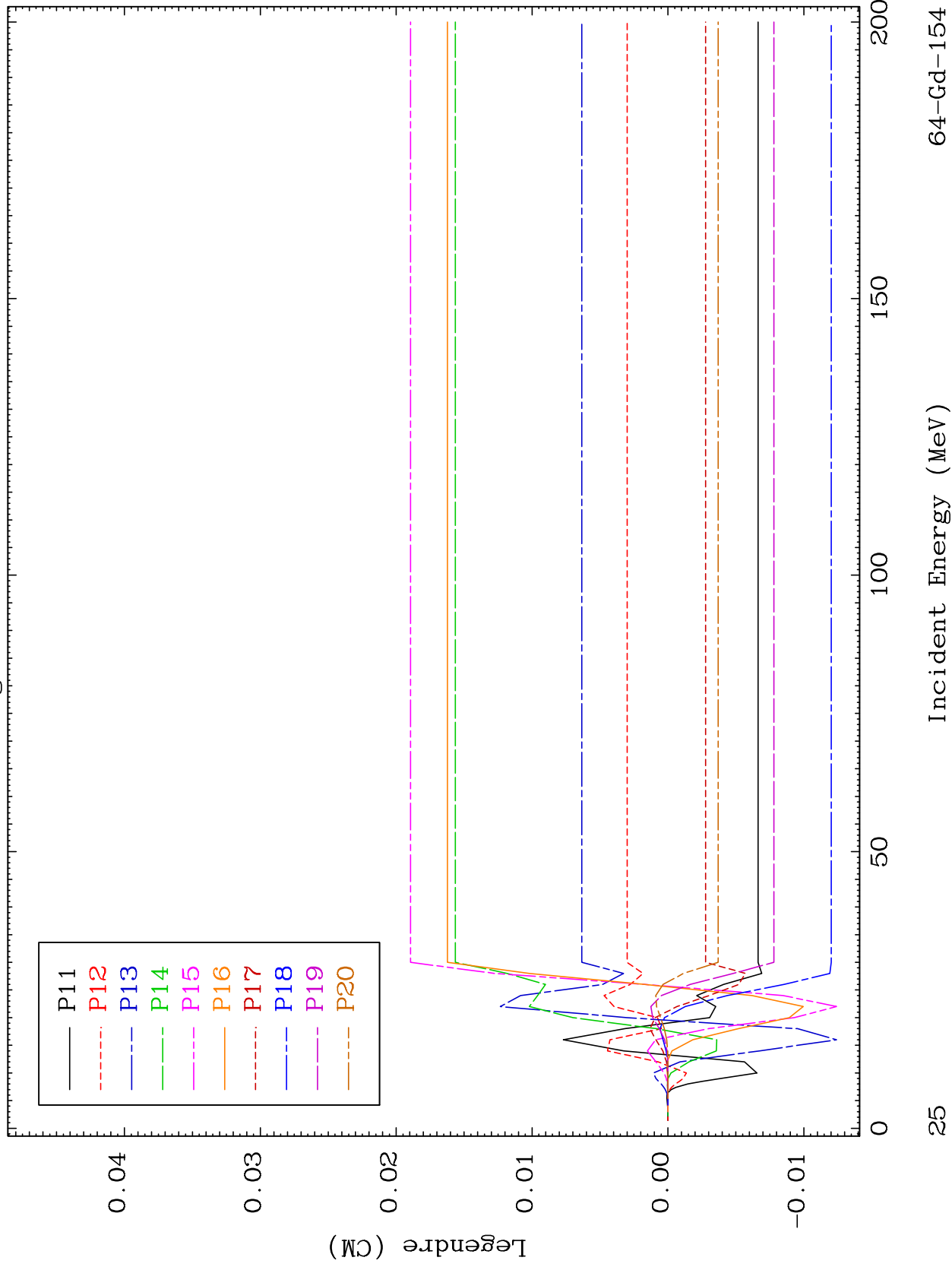
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154



64-Gd-154

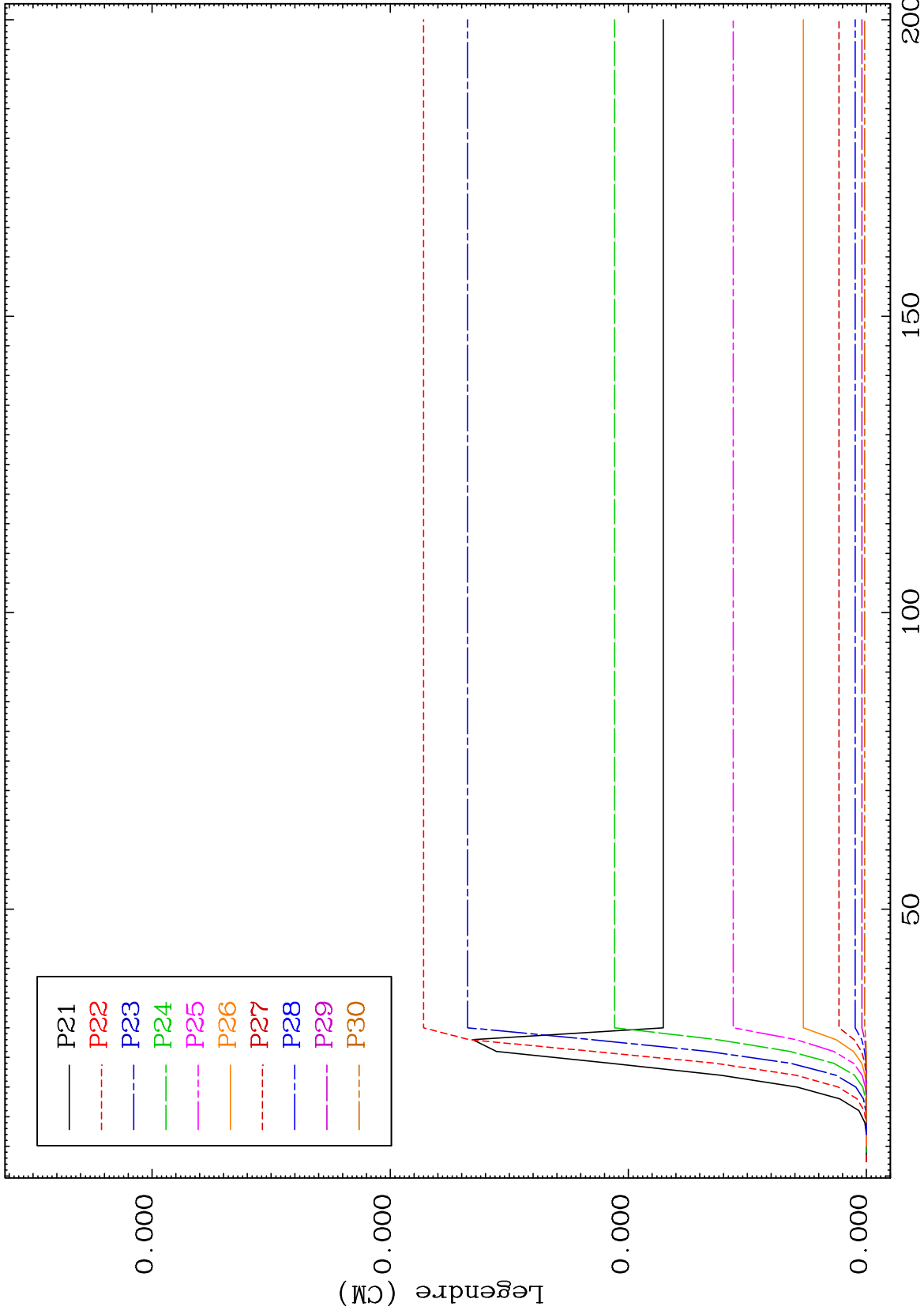
Incident Energy (MeV)

25

MAT 6431

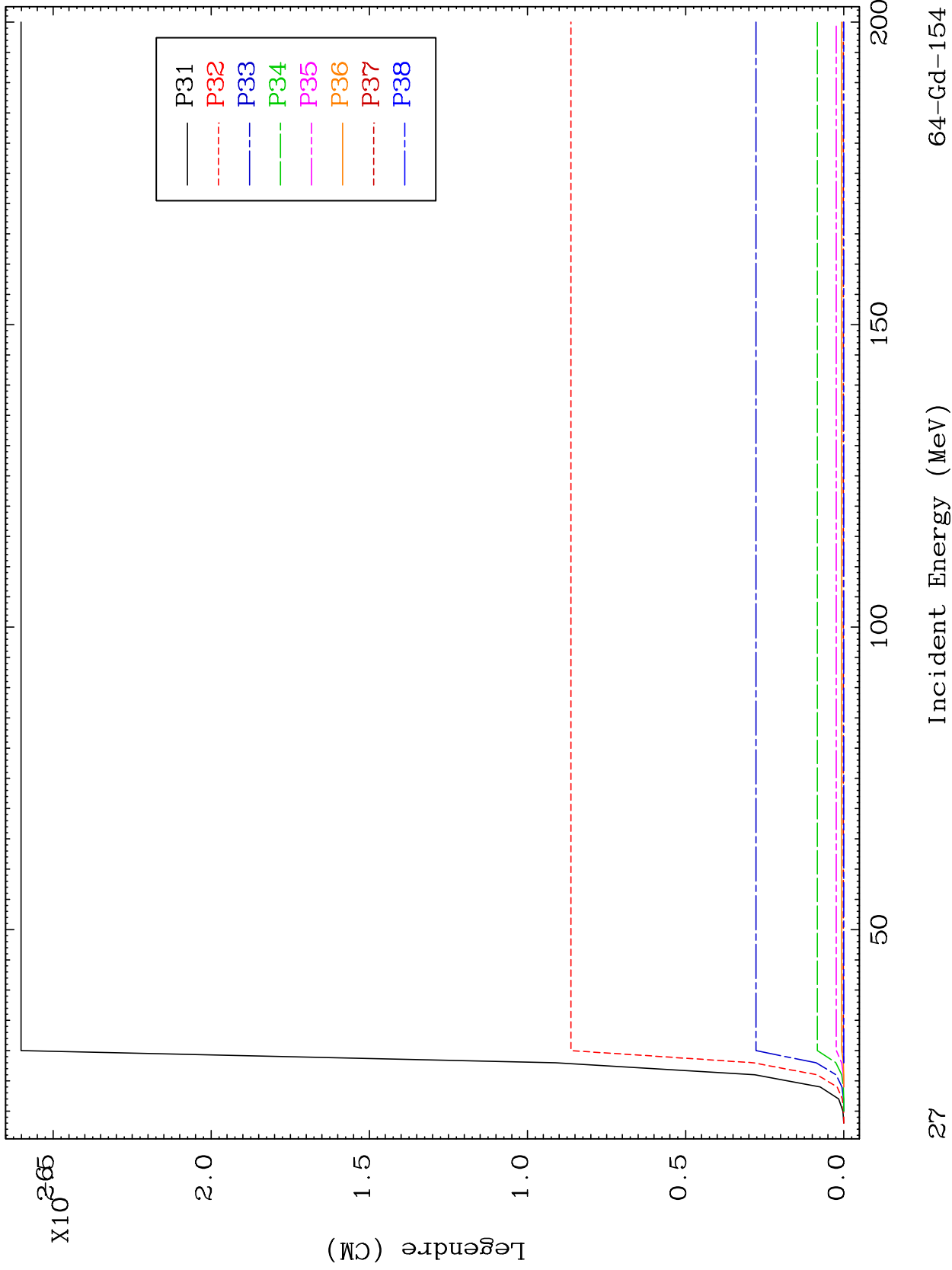
MT= 52 (n,n') Level  
Legendre Coefficients

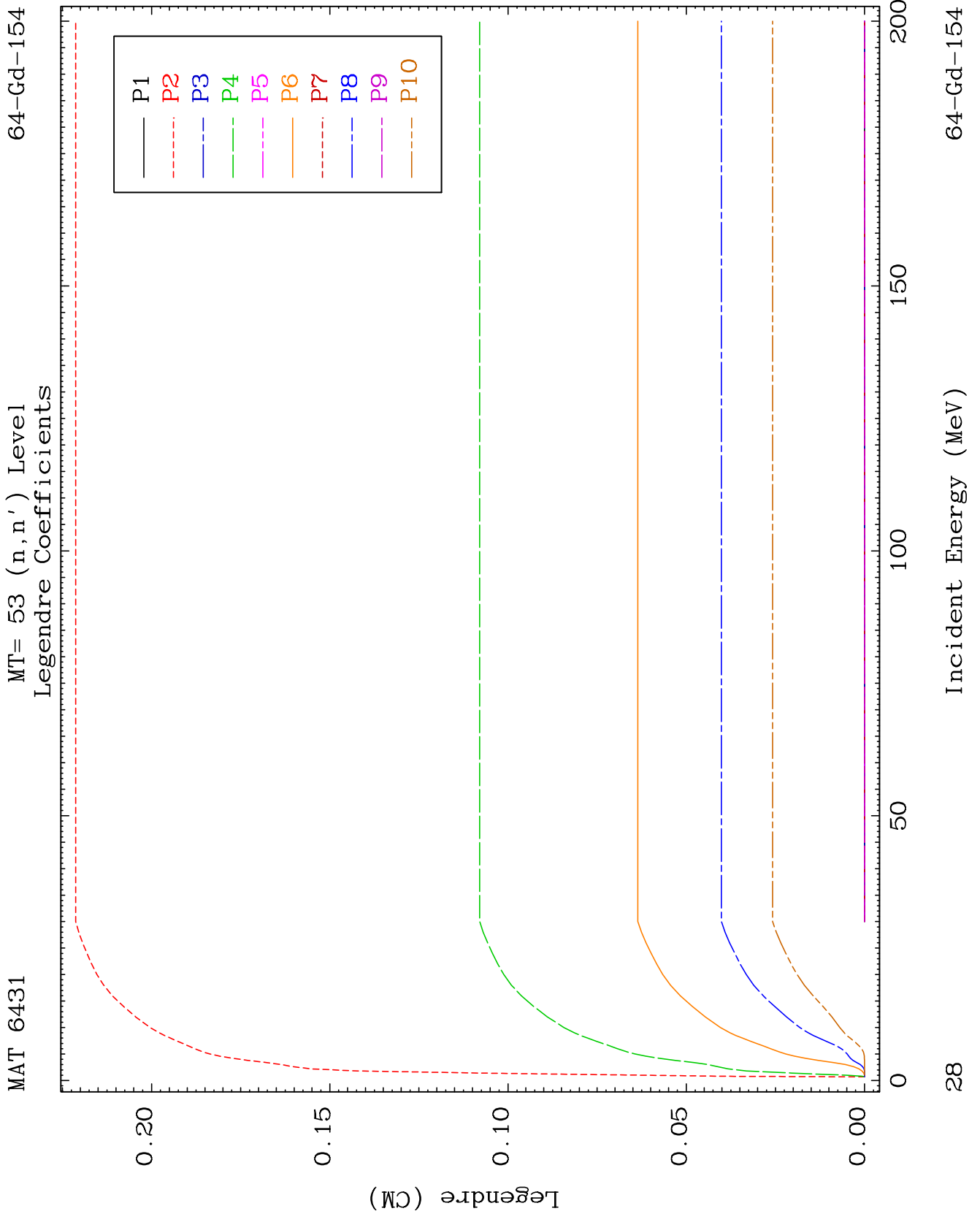
64-Gd-154



26

64-Gd-154

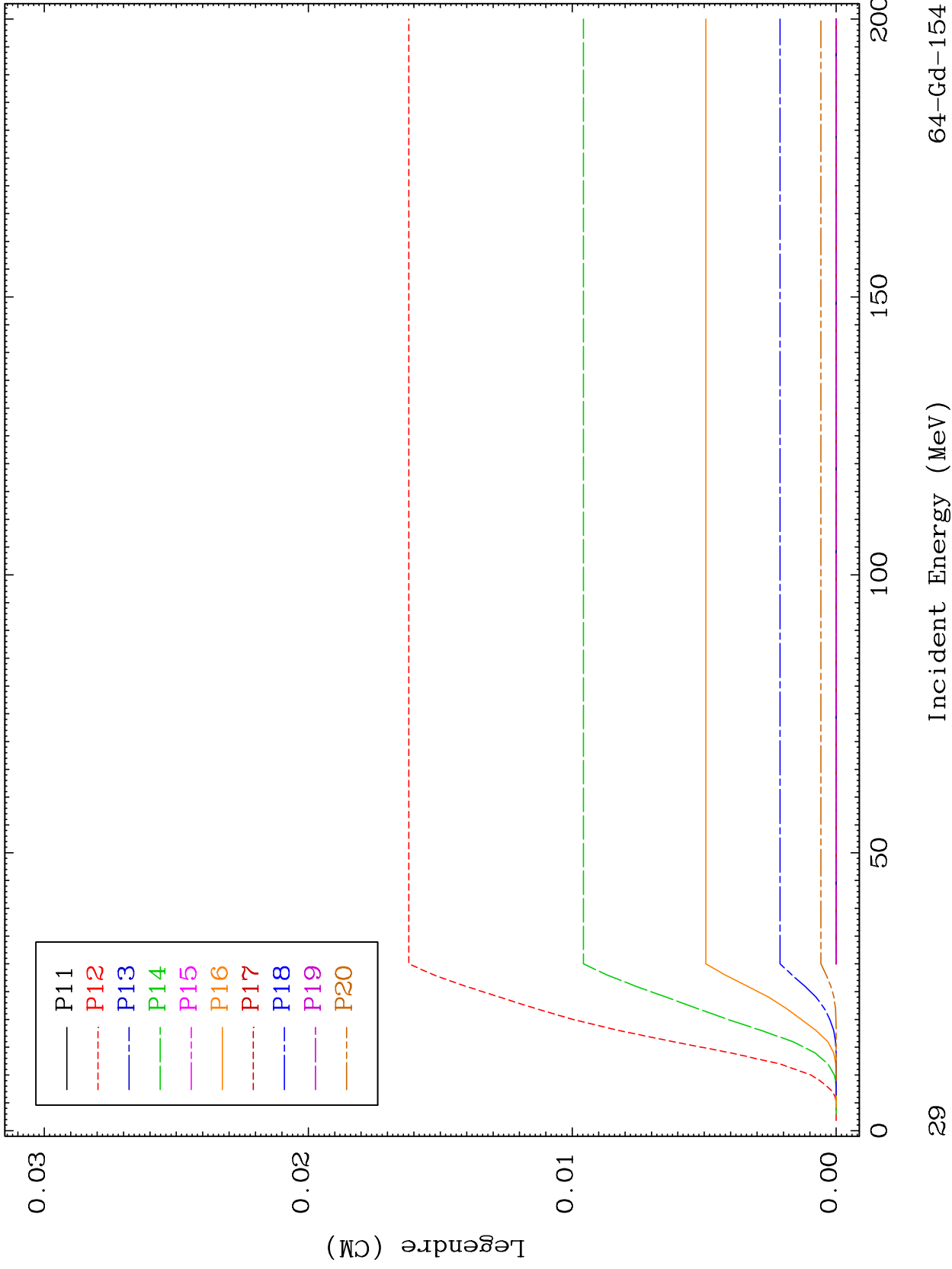




MAT 6431

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

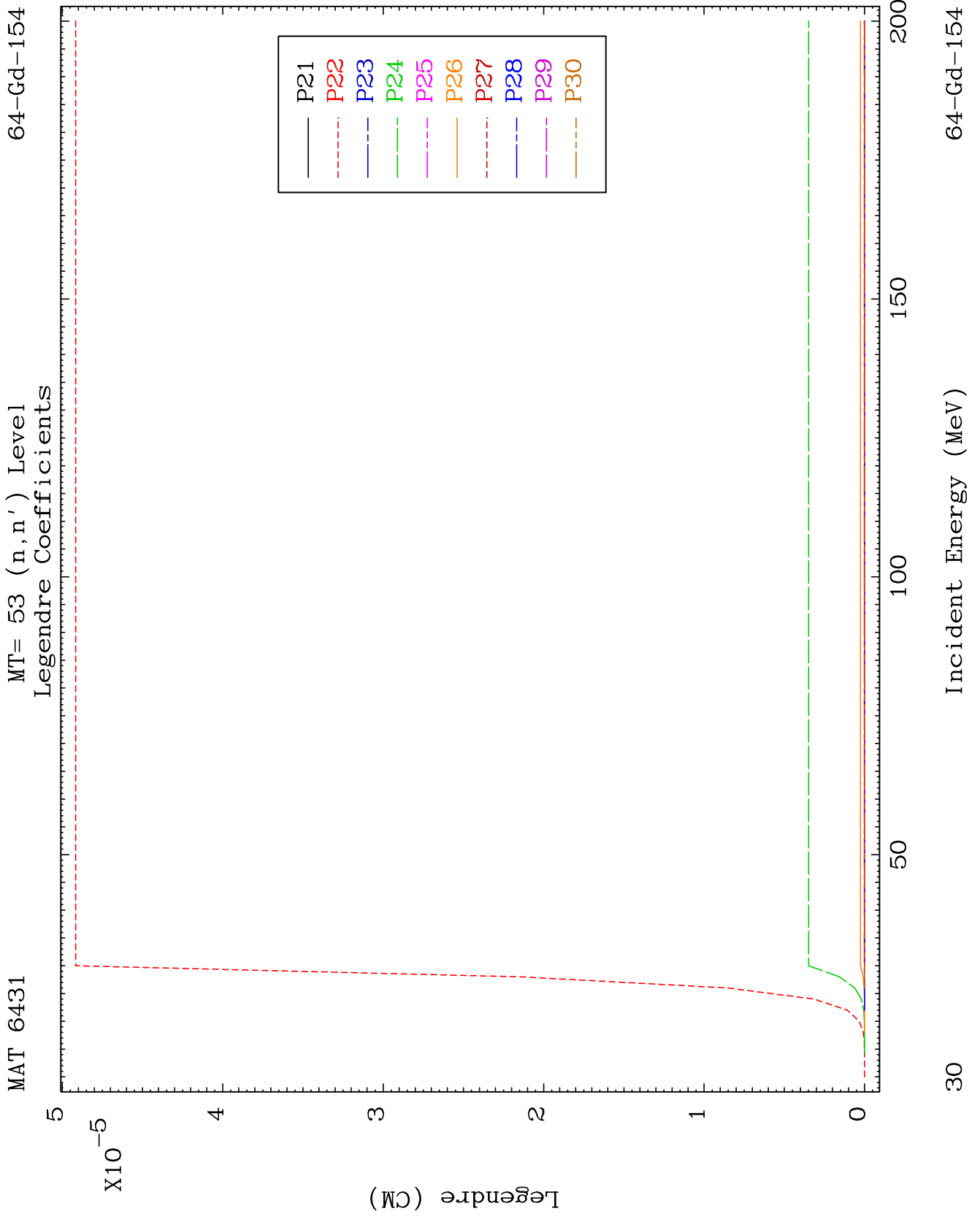
64-Gd-154



29

Incident Energy (MeV)

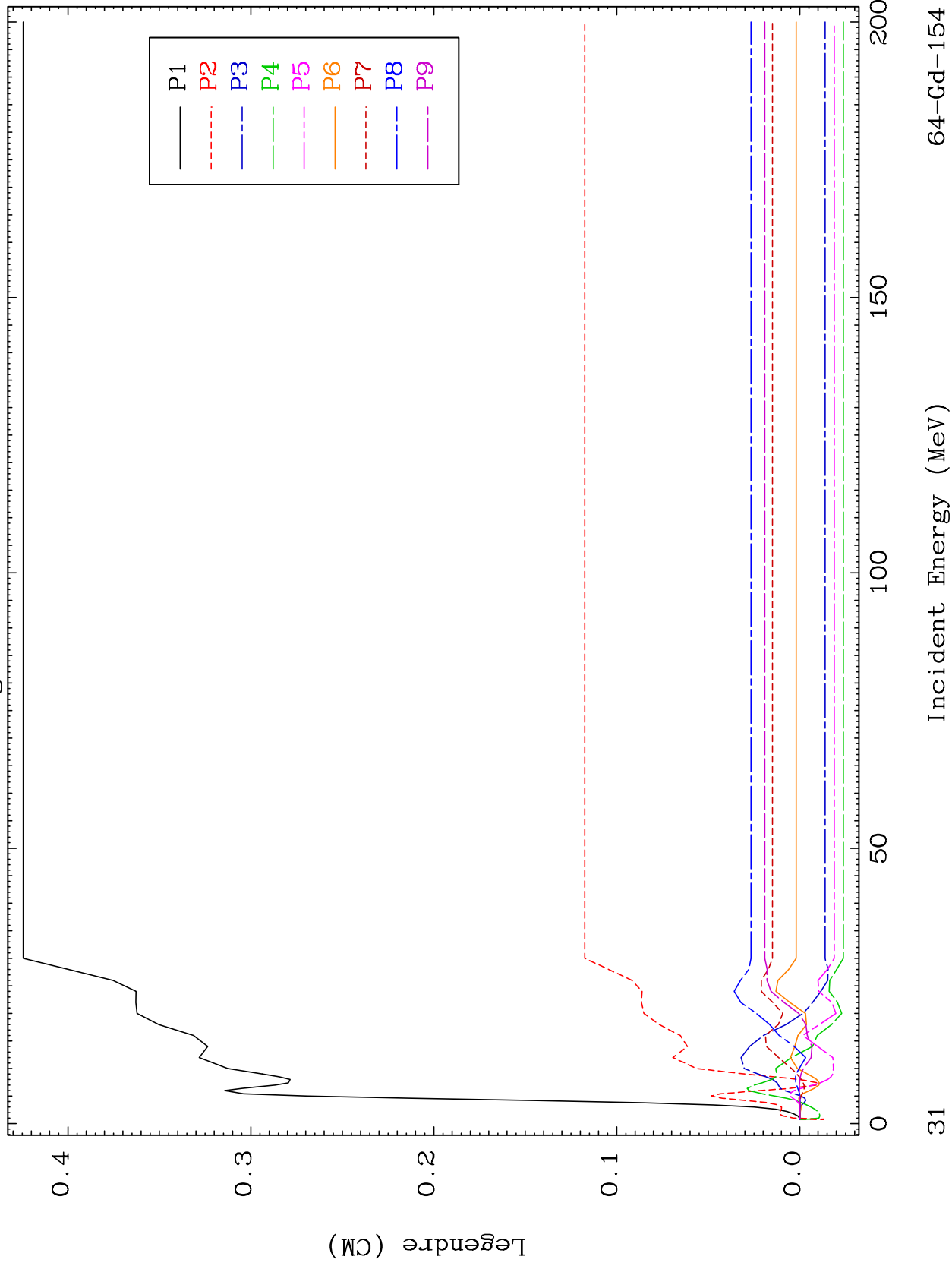
64-Gd-154



MAT 6431

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

64-Gd-154



64-Gd-154

Incident Energy (MeV)

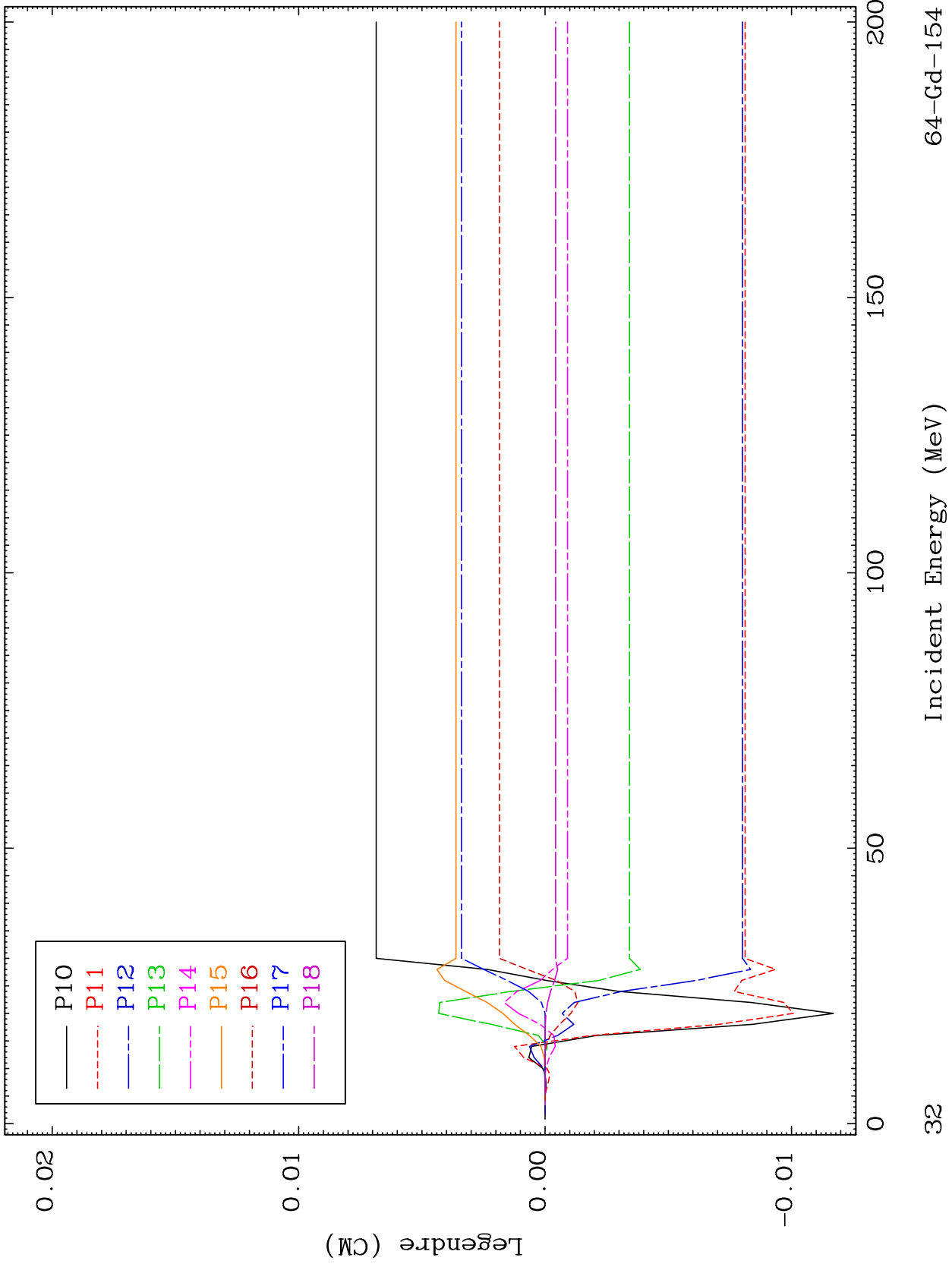
31



MAT 6431

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

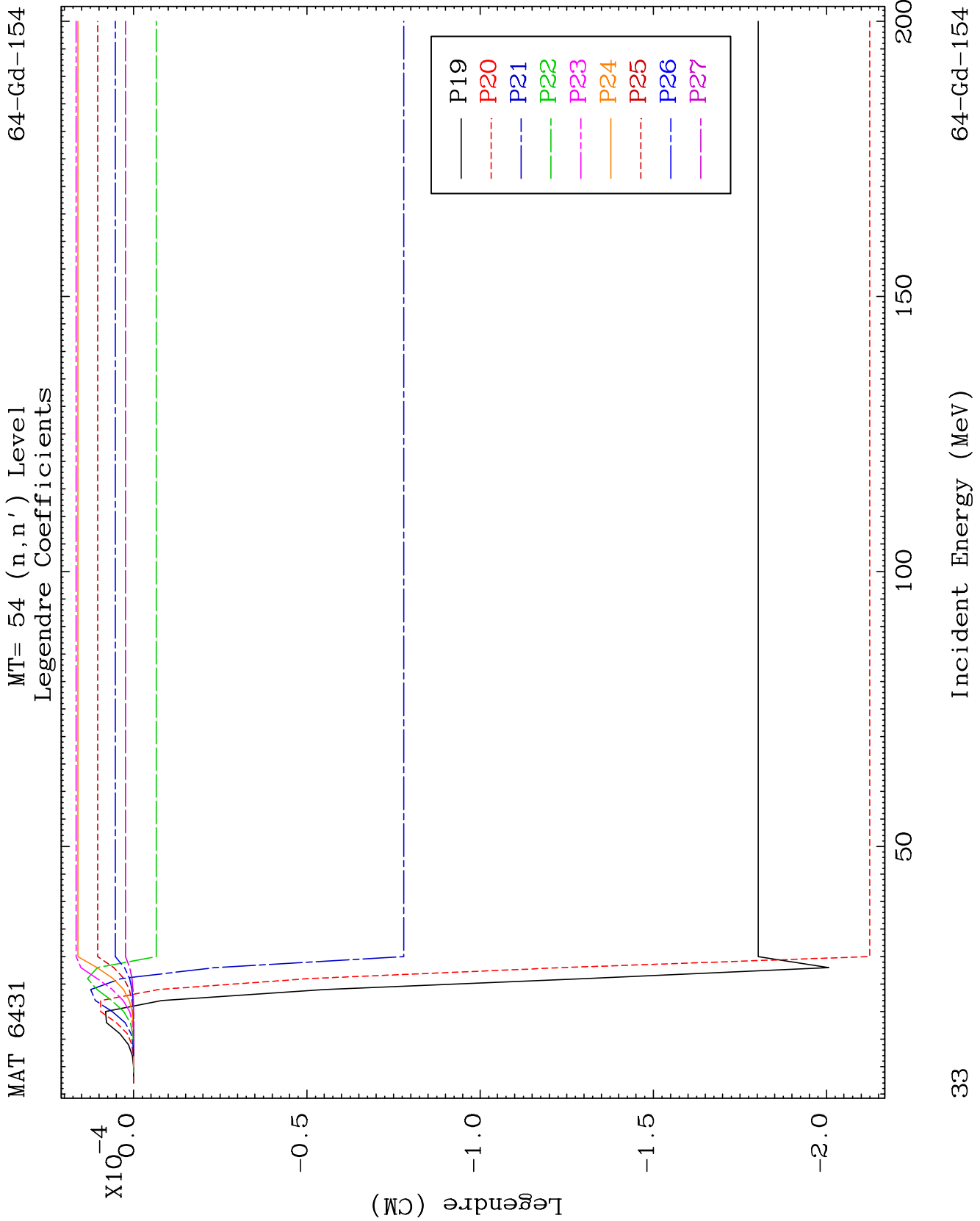
64-Gd-154



32

Incident Energy (MeV)

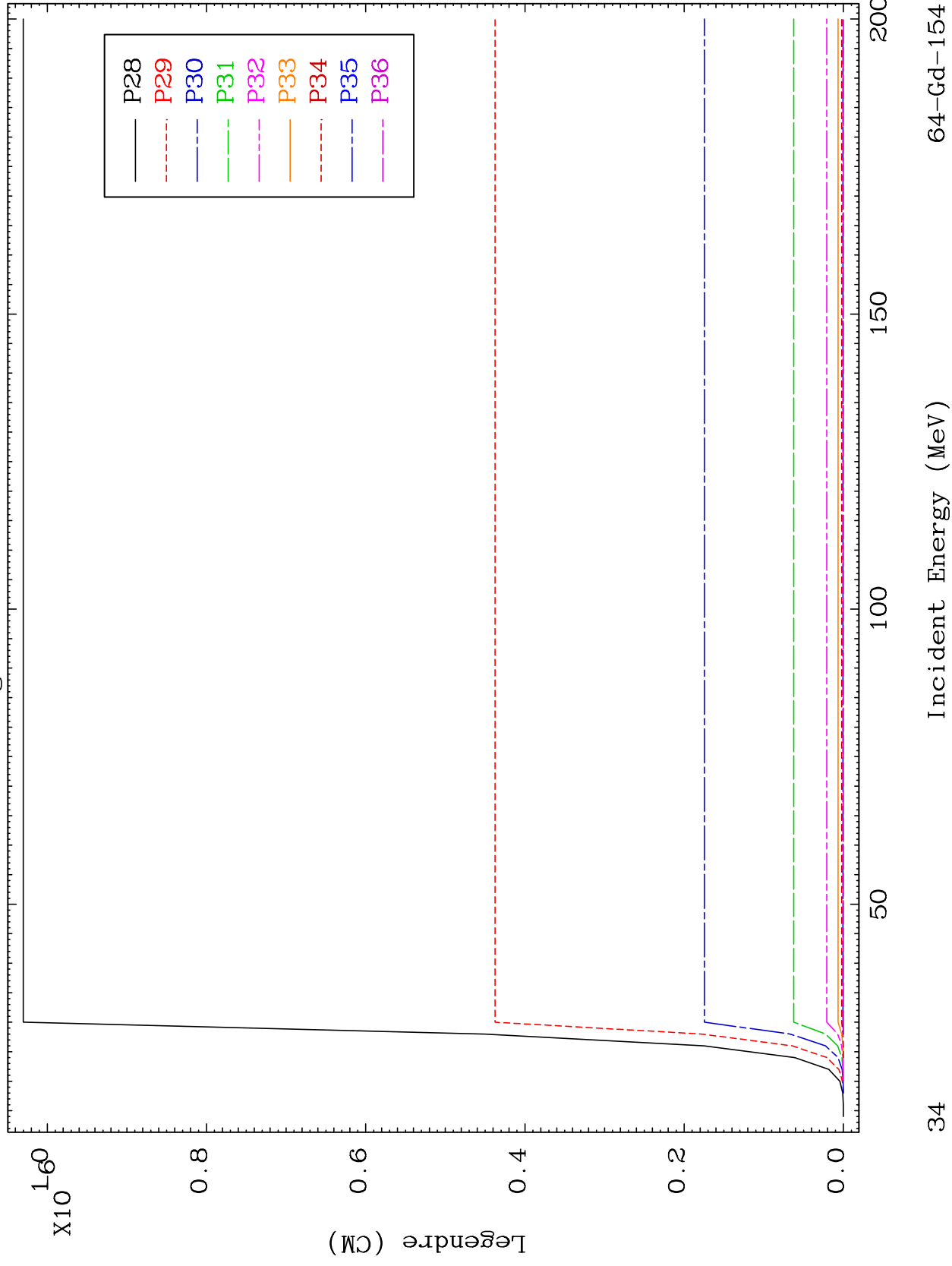
64-Gd-154



MAT 6431

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

64-Gd-154



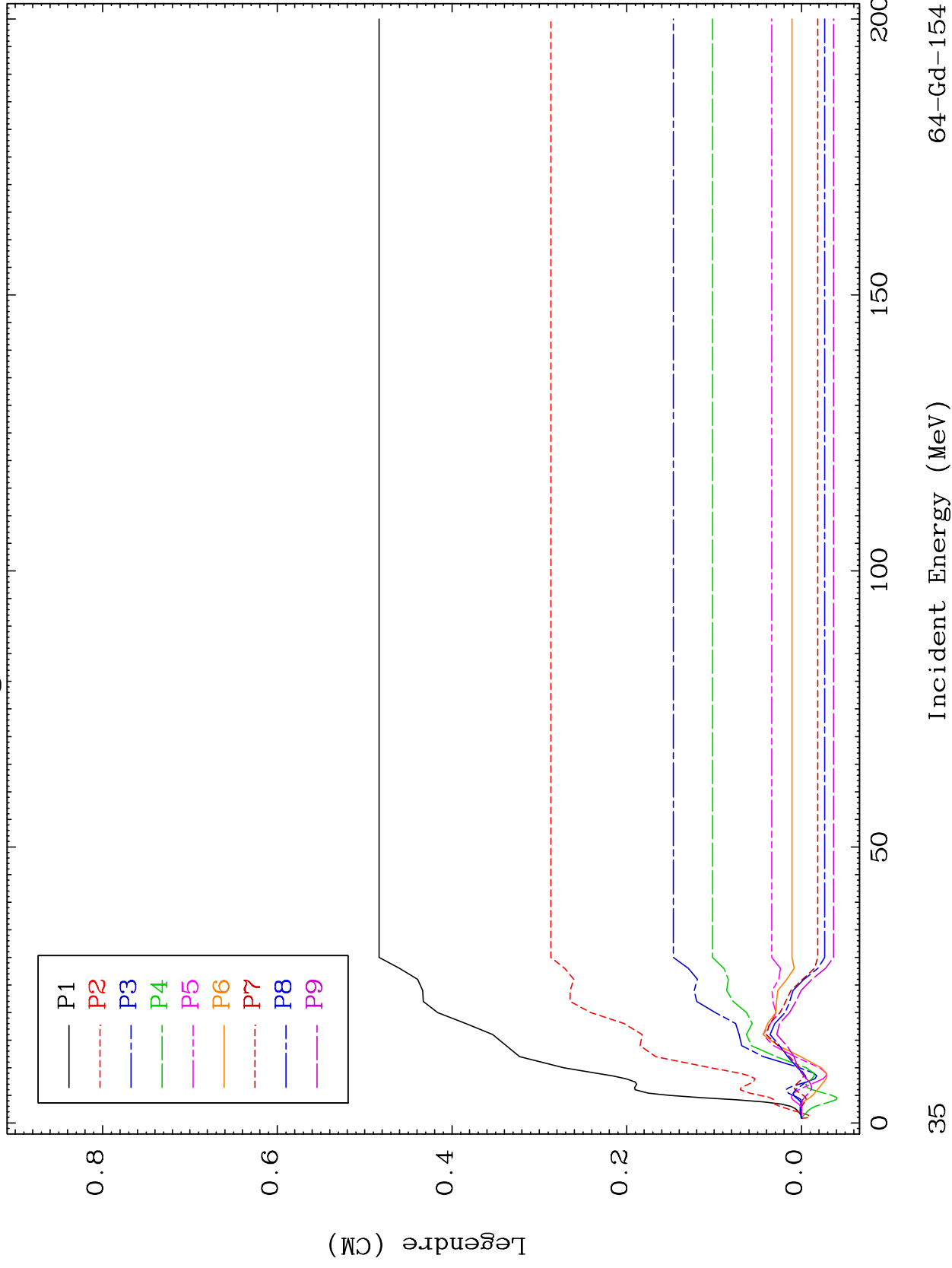
34

200

MAT 6431

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

64-Gd-154



64-Gd-154

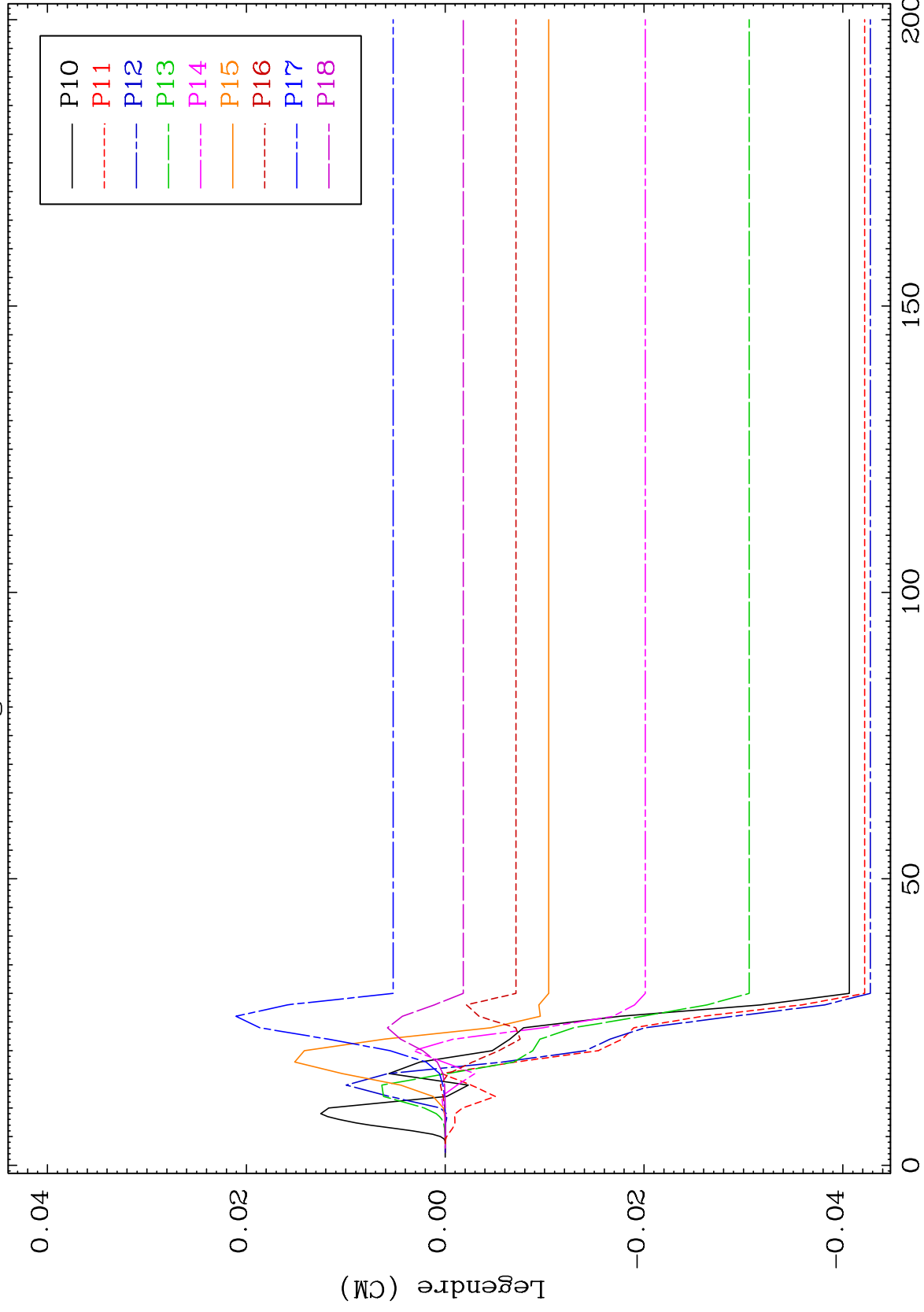
Incident Energy (MeV)

35

MAT 6431

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

64-Gd-154



36

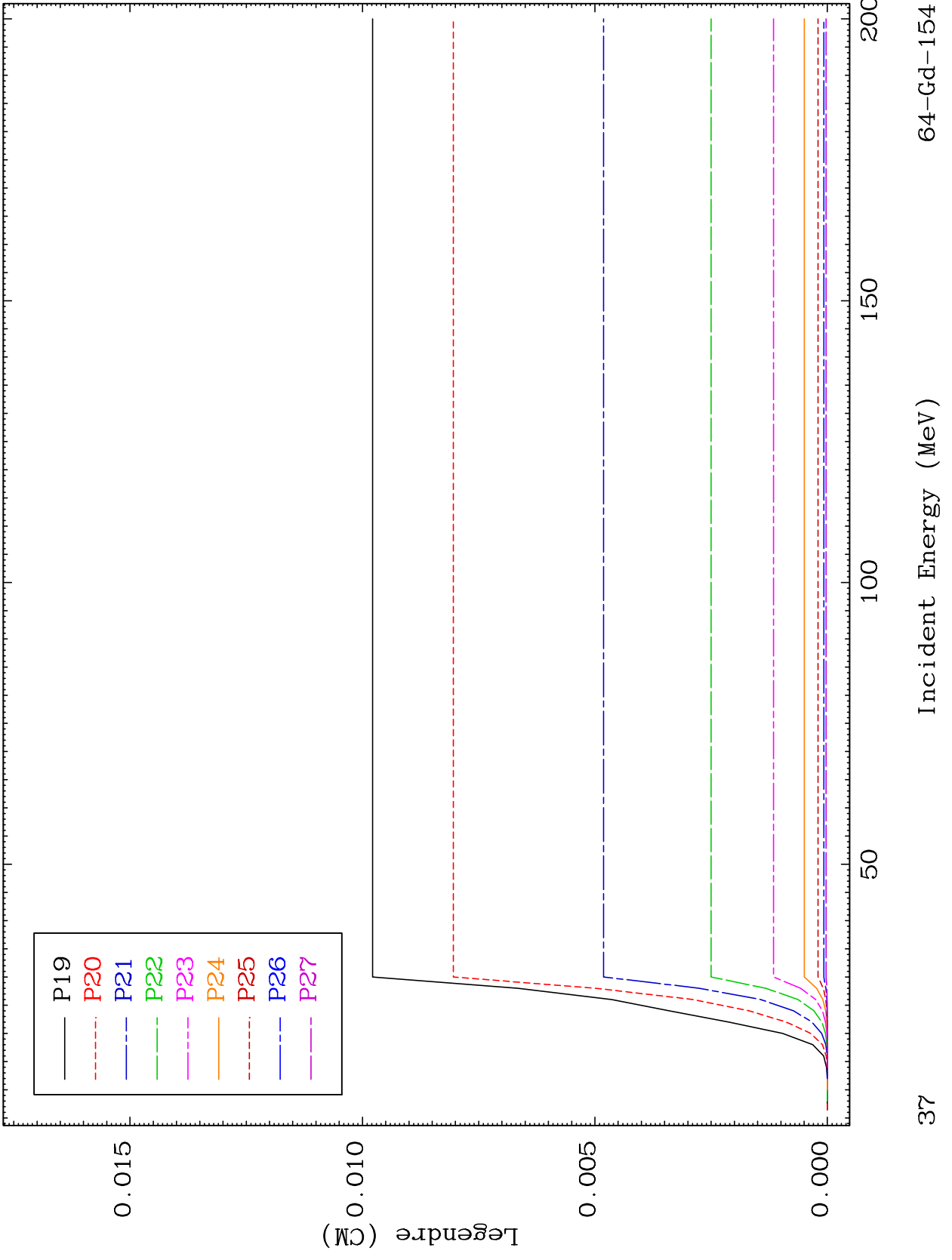
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154



37

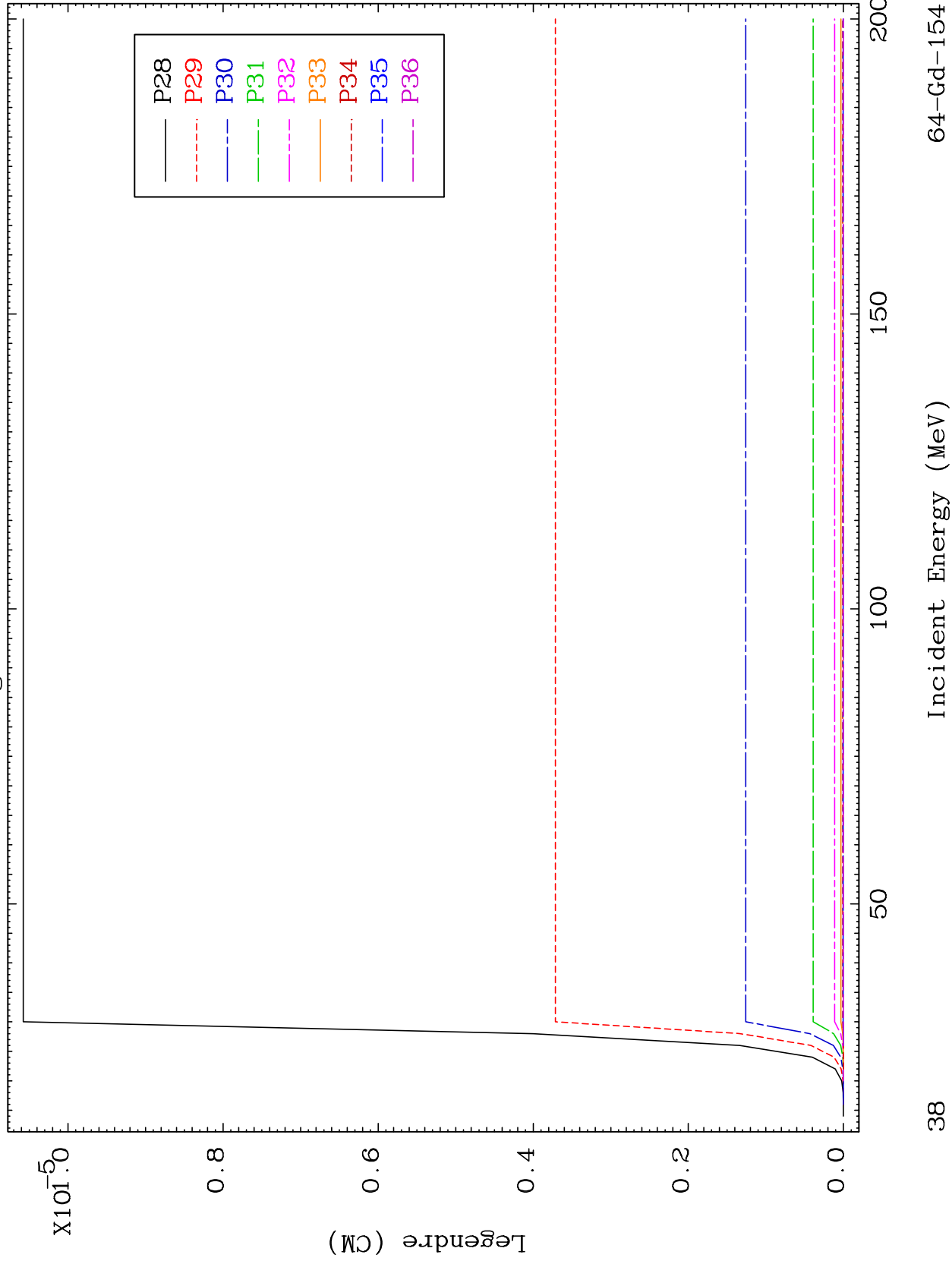
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154

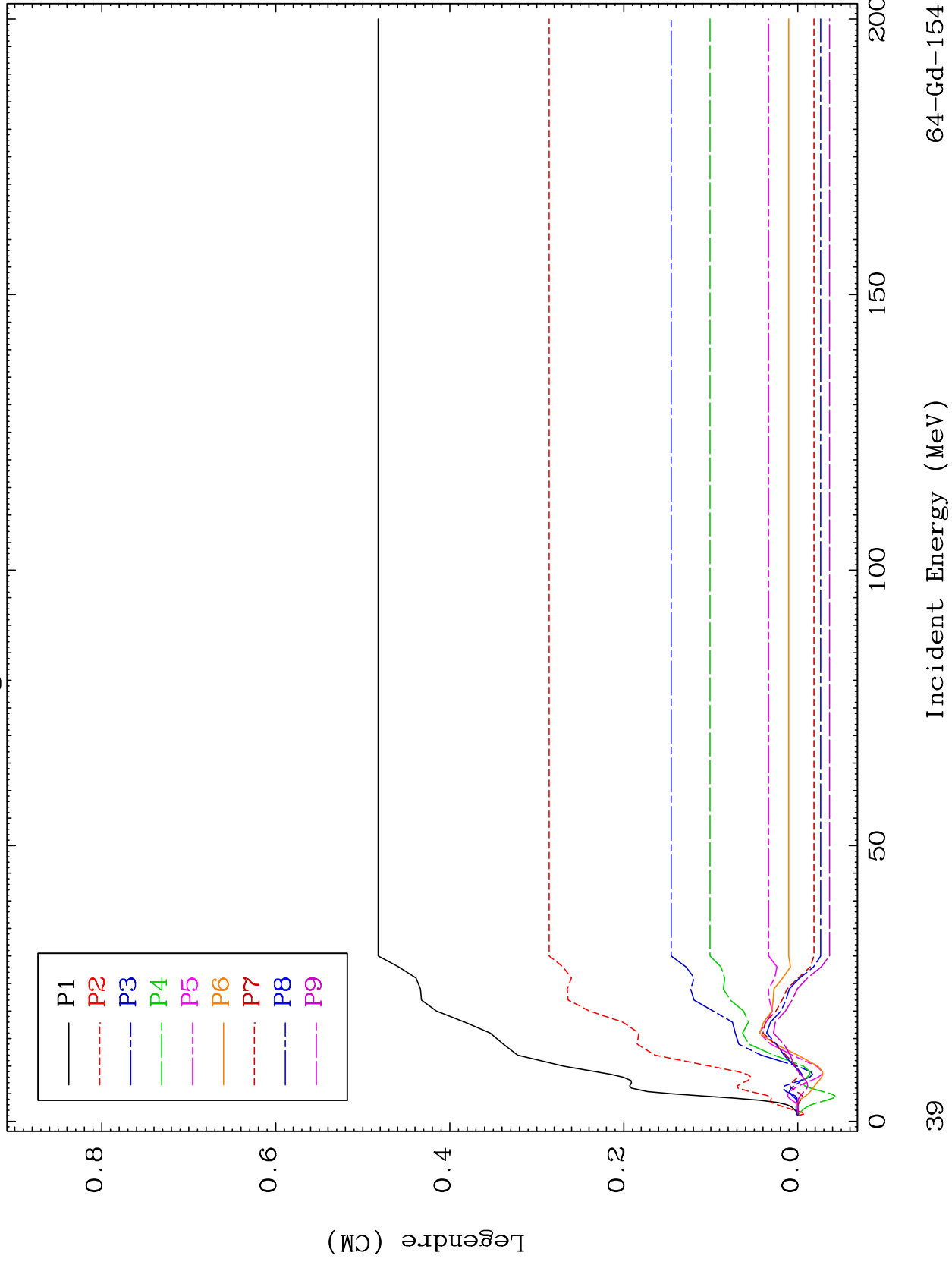


38

MAT 6431

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

64-Gd-154



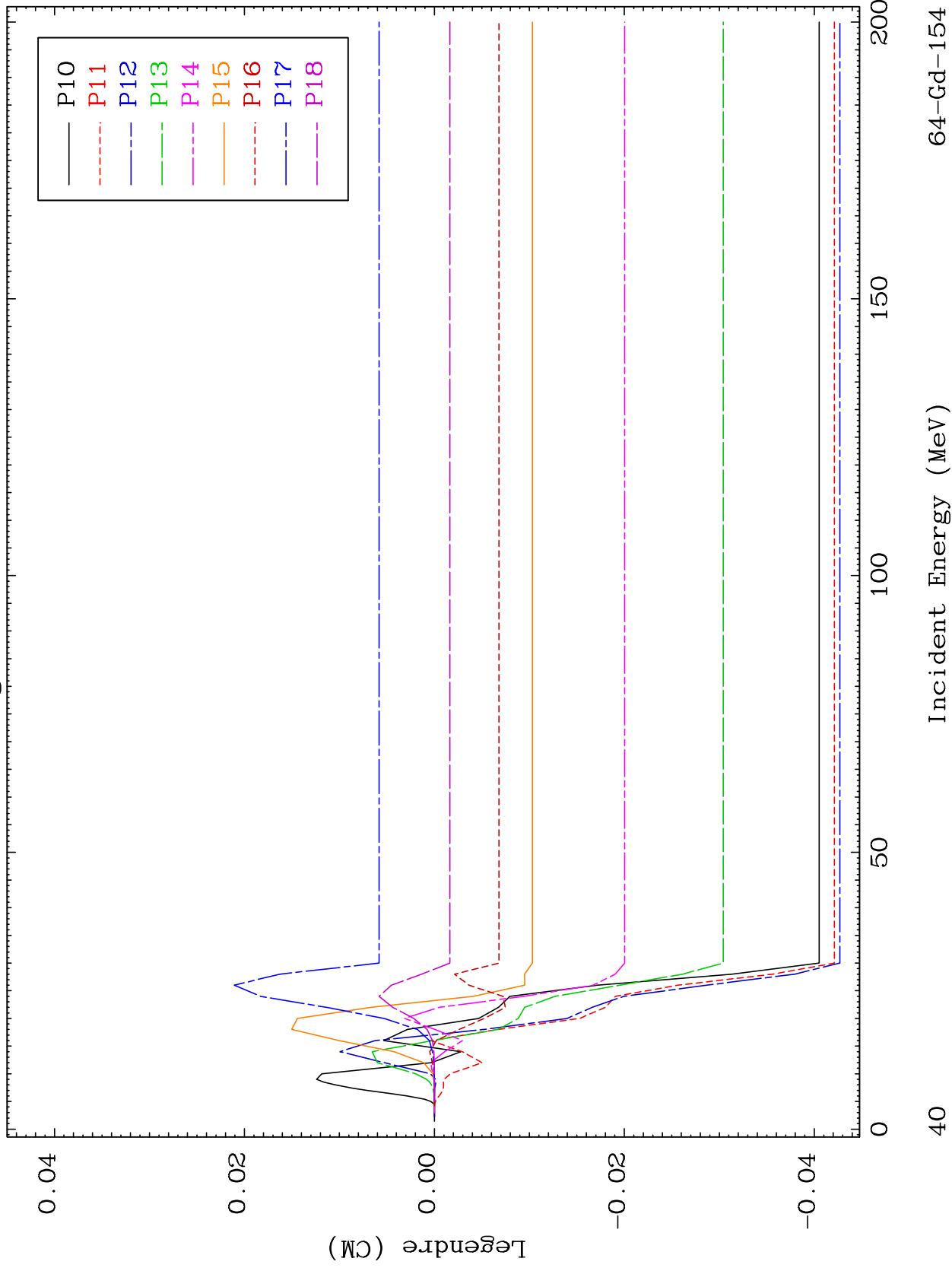
39



MAT 6431

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

64-Gd-154



64-Gd-154

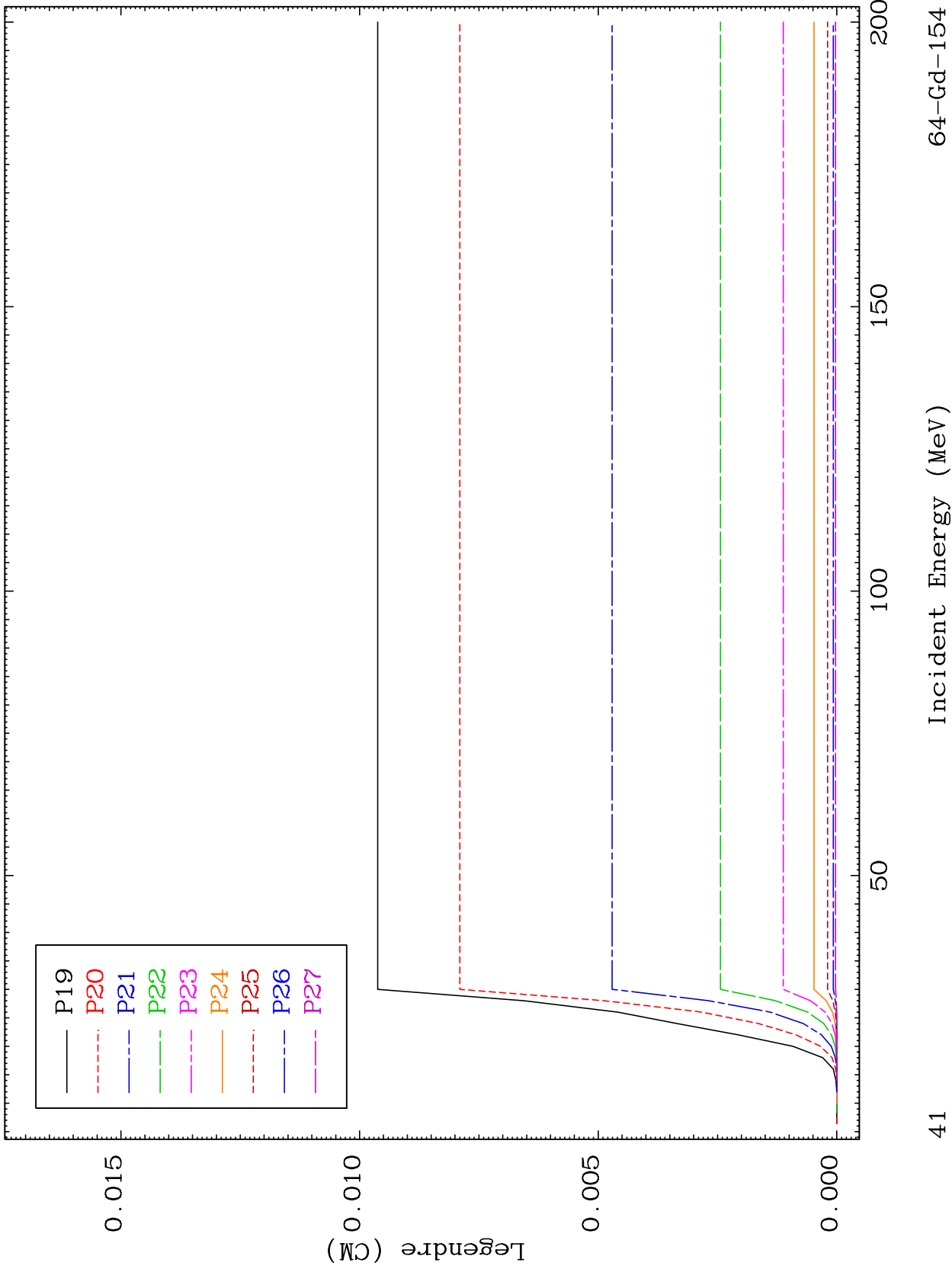
Incident Energy (MeV)

40

MAT 6431

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

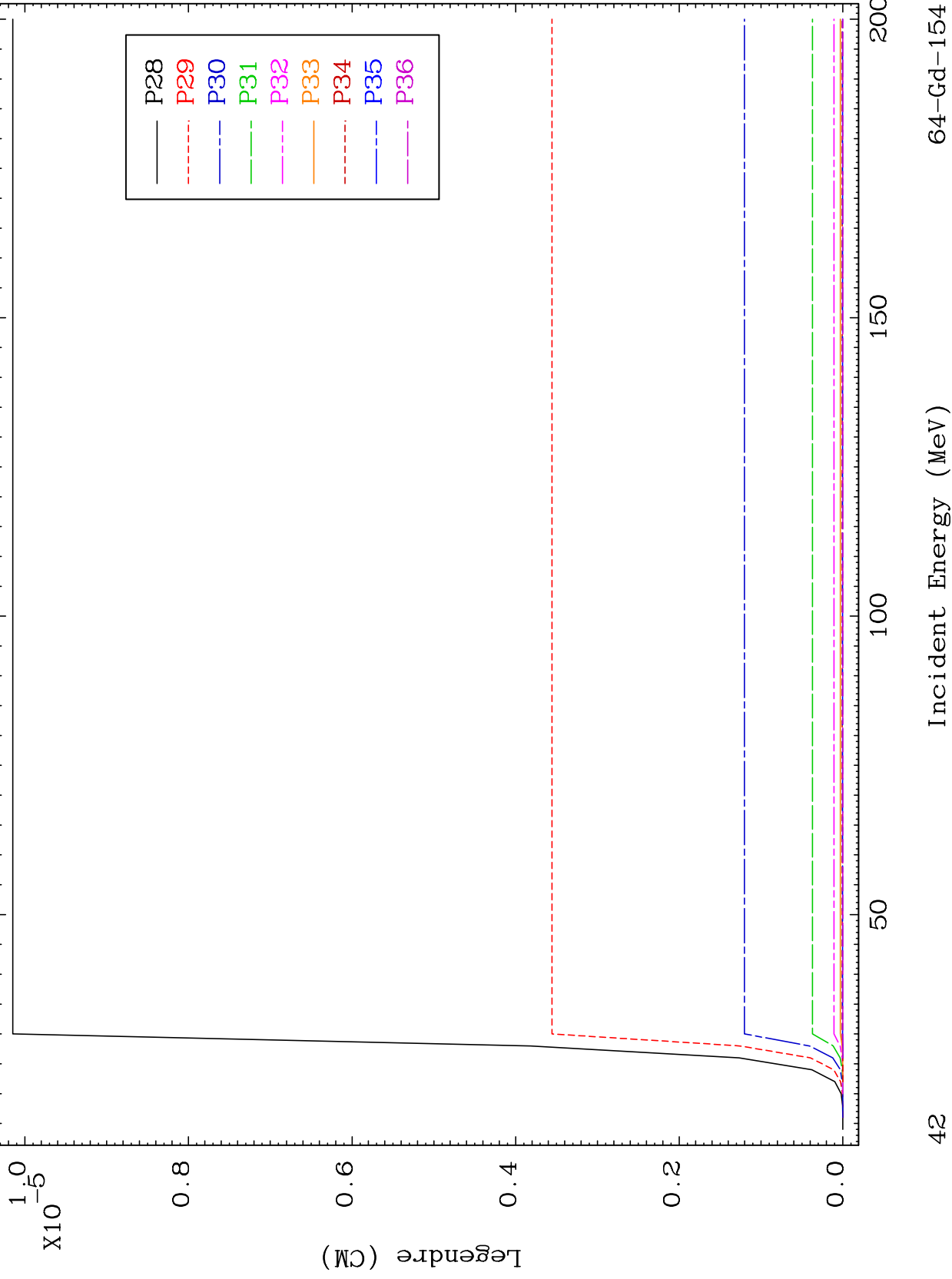
64-Gd-154



MAT 6431

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

64-Gd-154



42

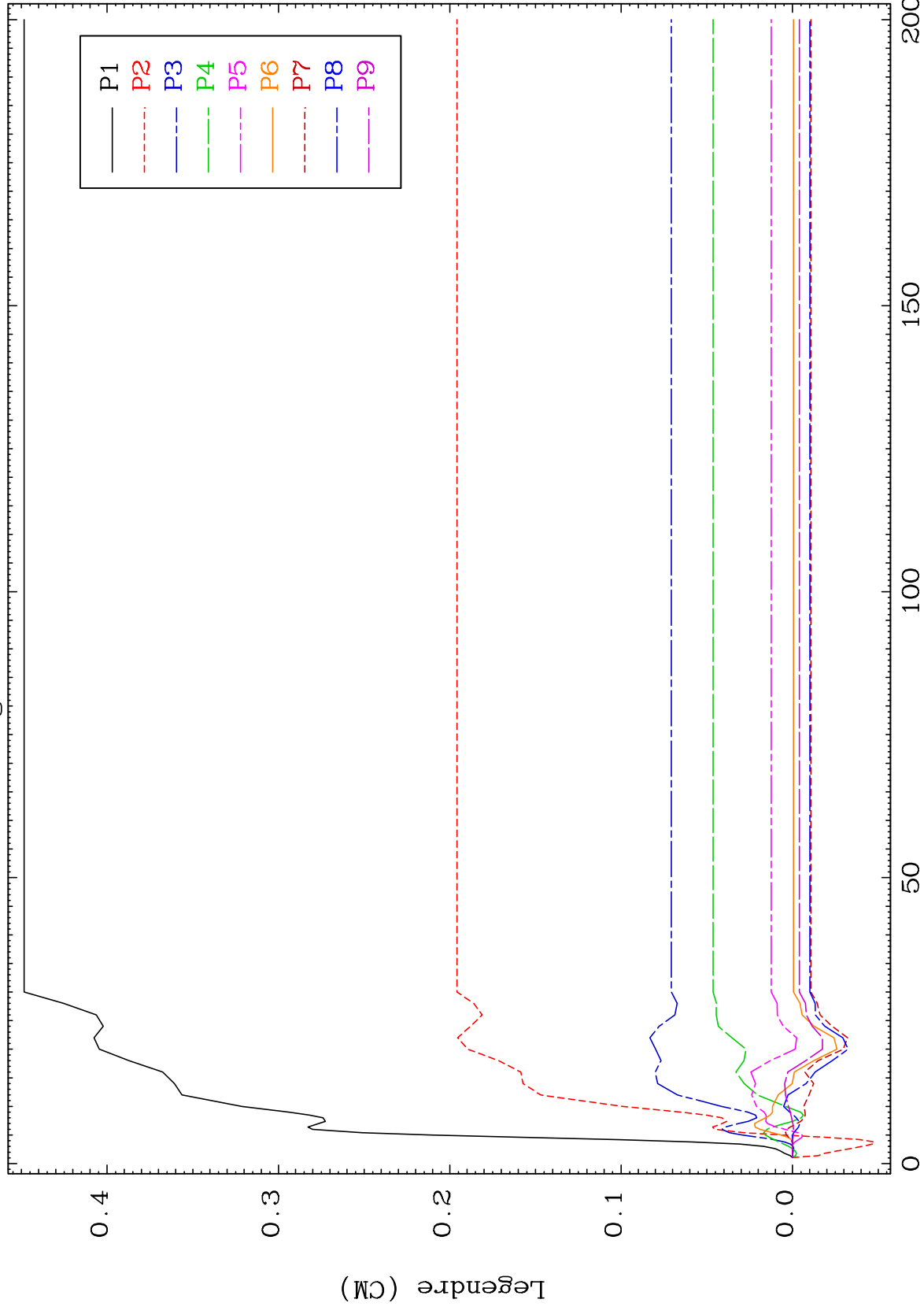
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

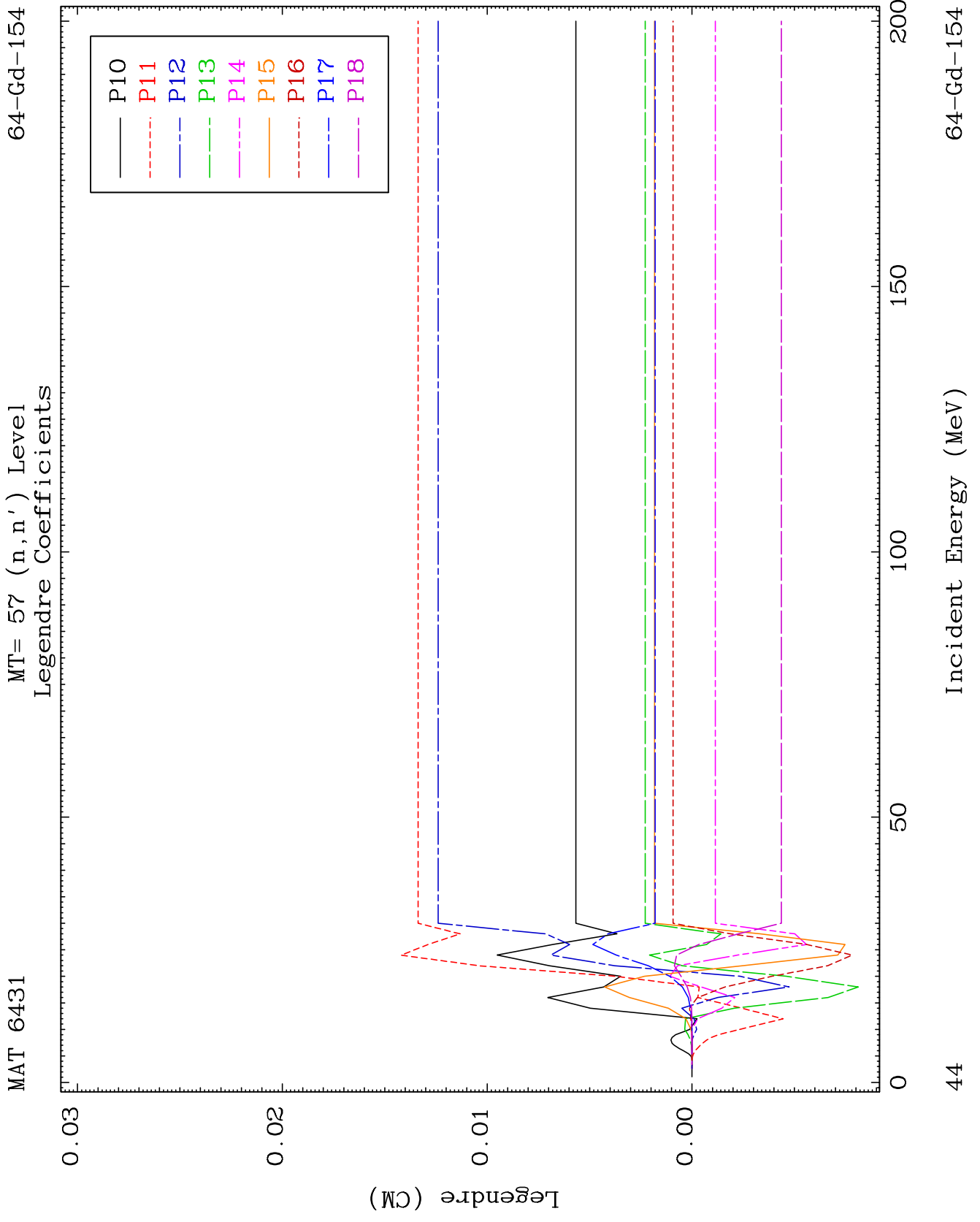
64-Gd-154



64-Gd-154

Incident Energy (MeV)

43

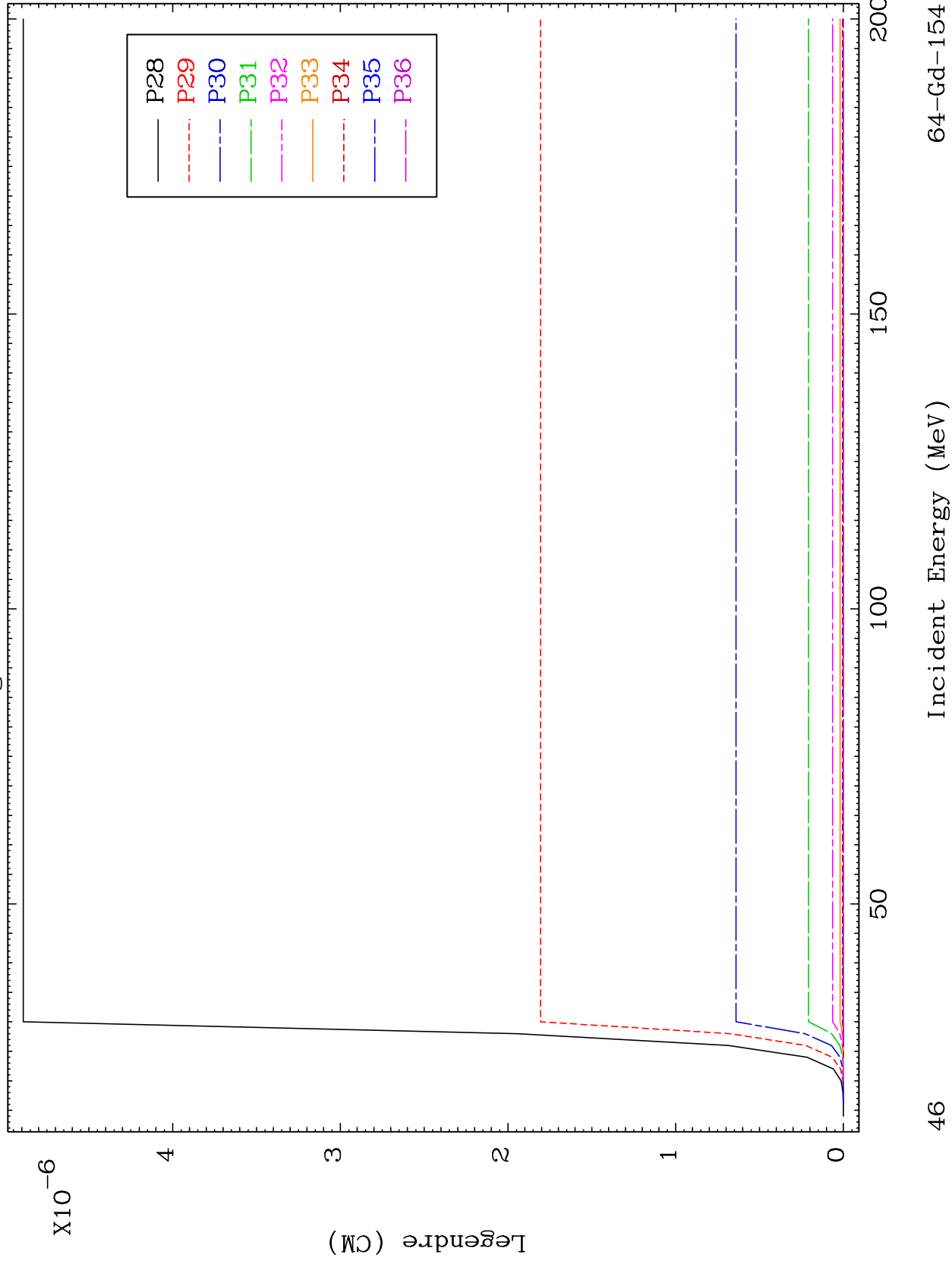




MAT 6431

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

64-Gd-154



46

Incident Energy (MeV)

64-Gd-154



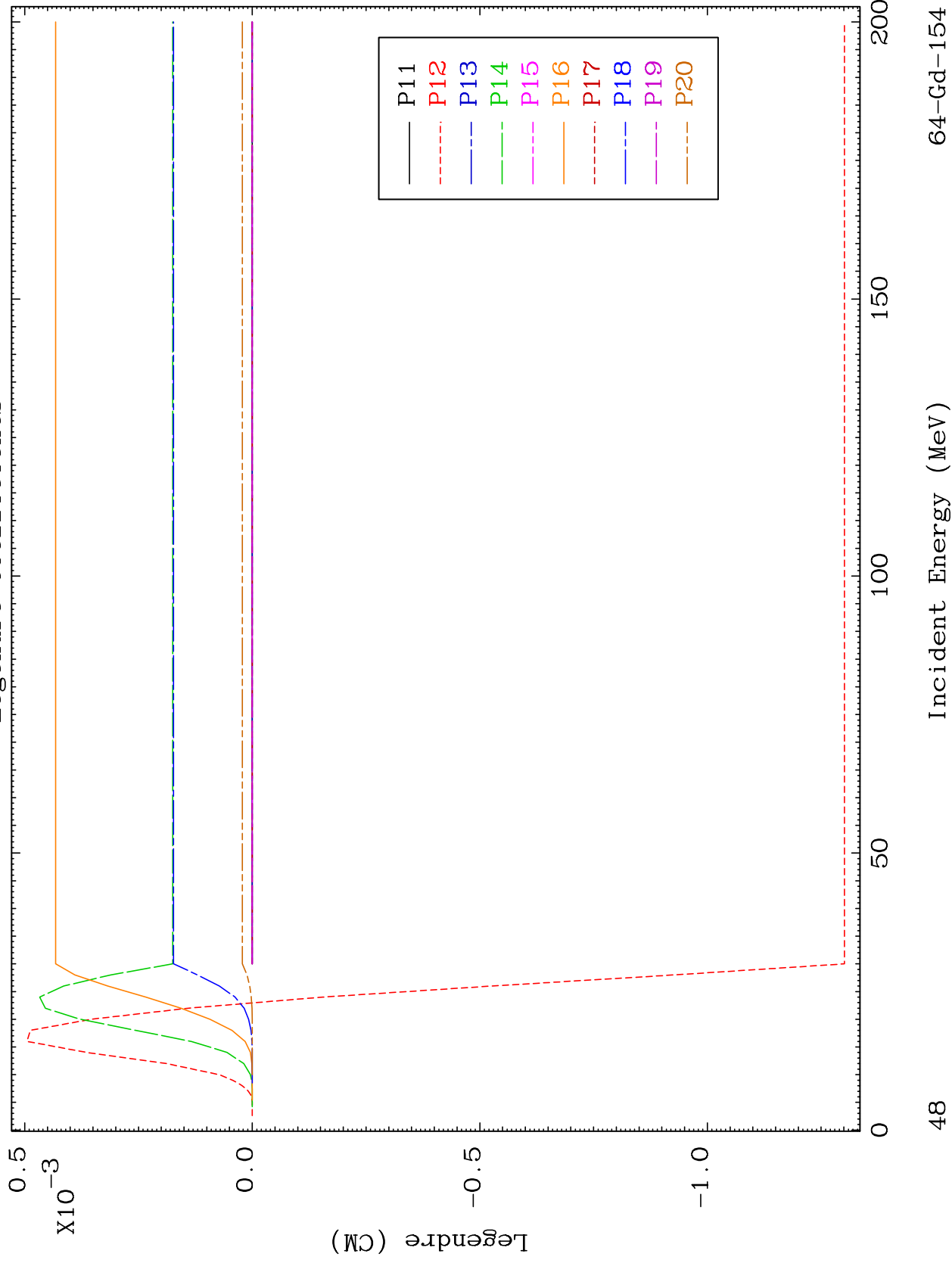


MAT 6431

MT= 58 (n,n') Level

64-Gd-154

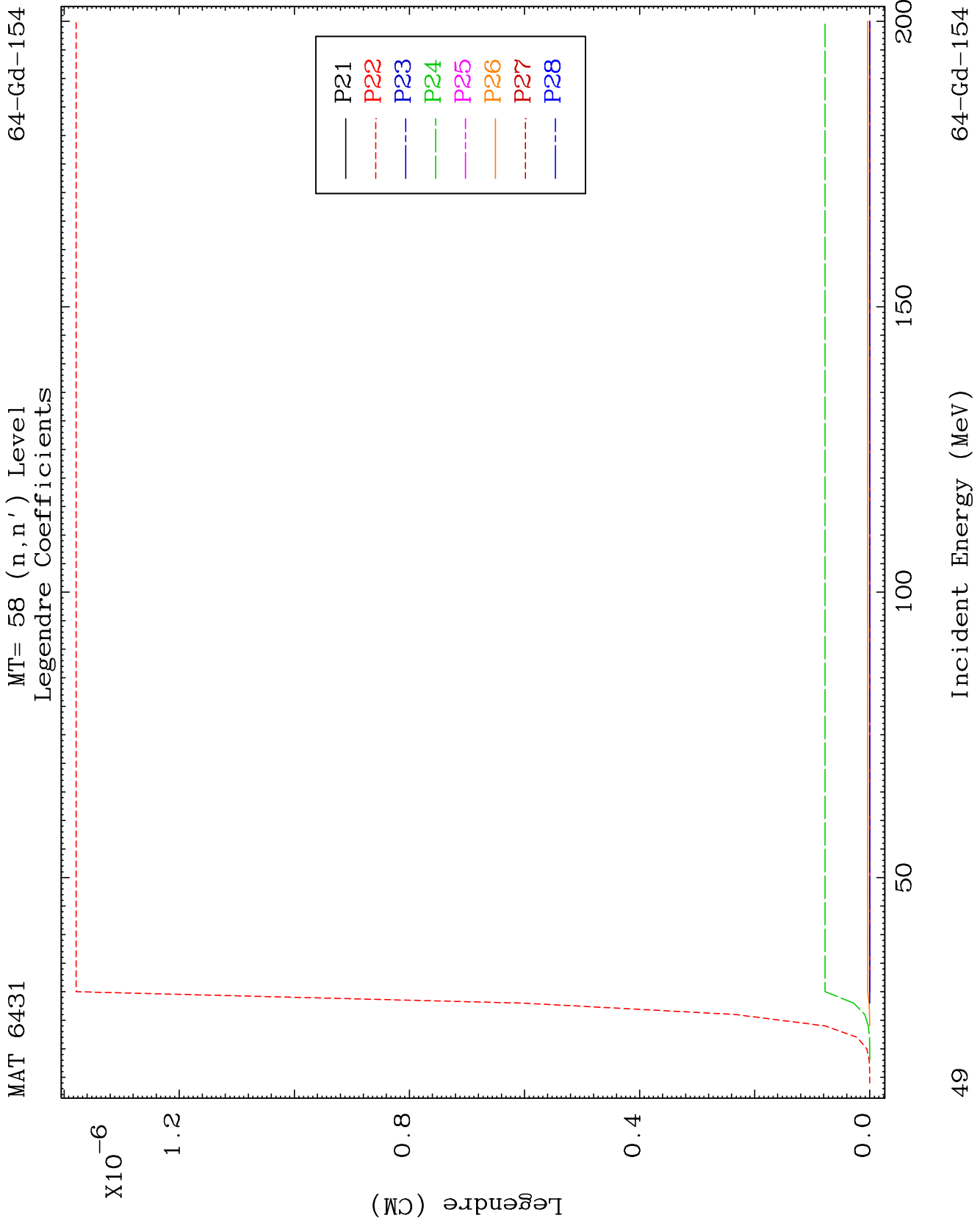
Legendre Coefficients



64-Gd-154

Incident Energy (MeV)

48

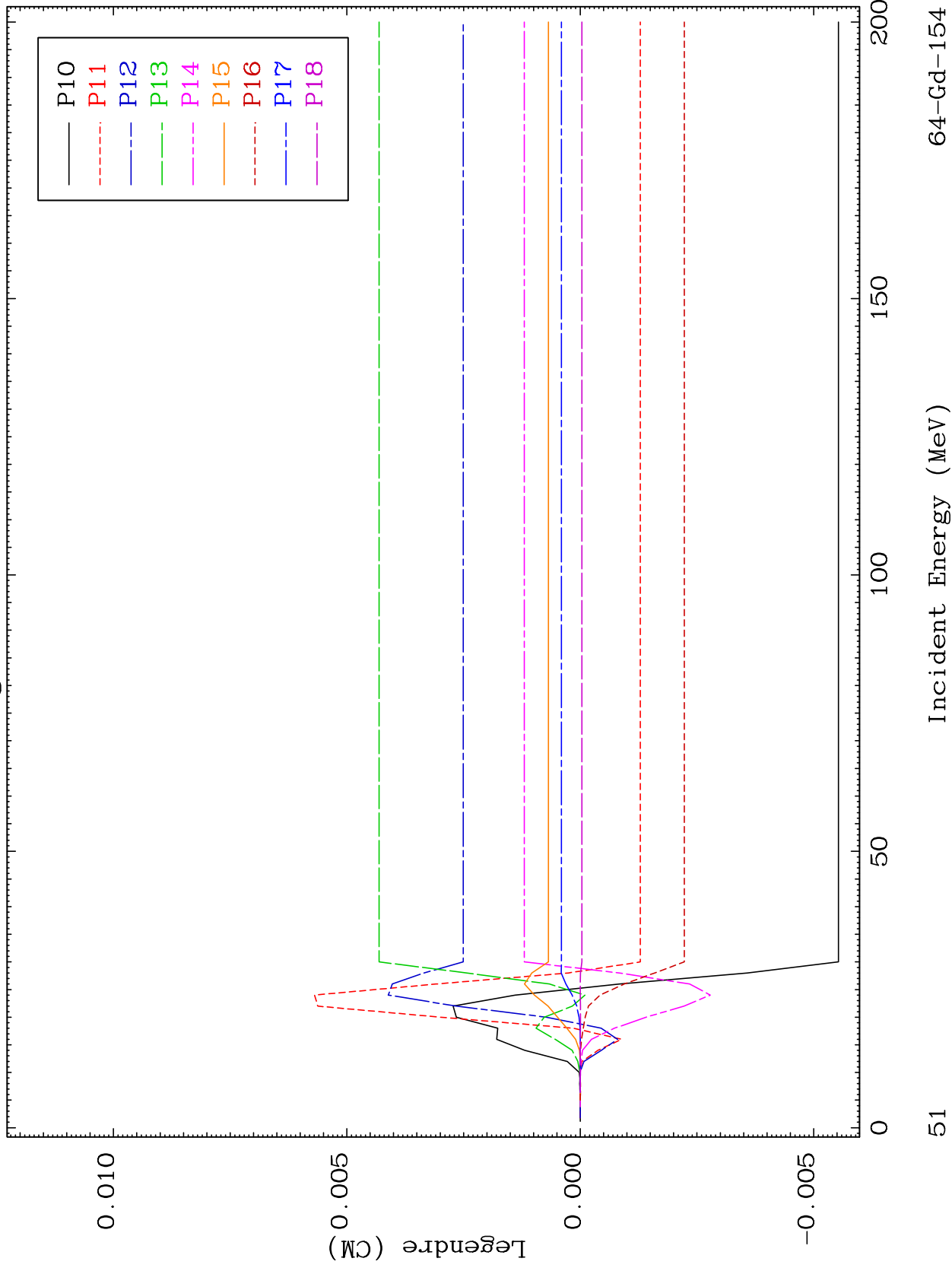




MAT 6431

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

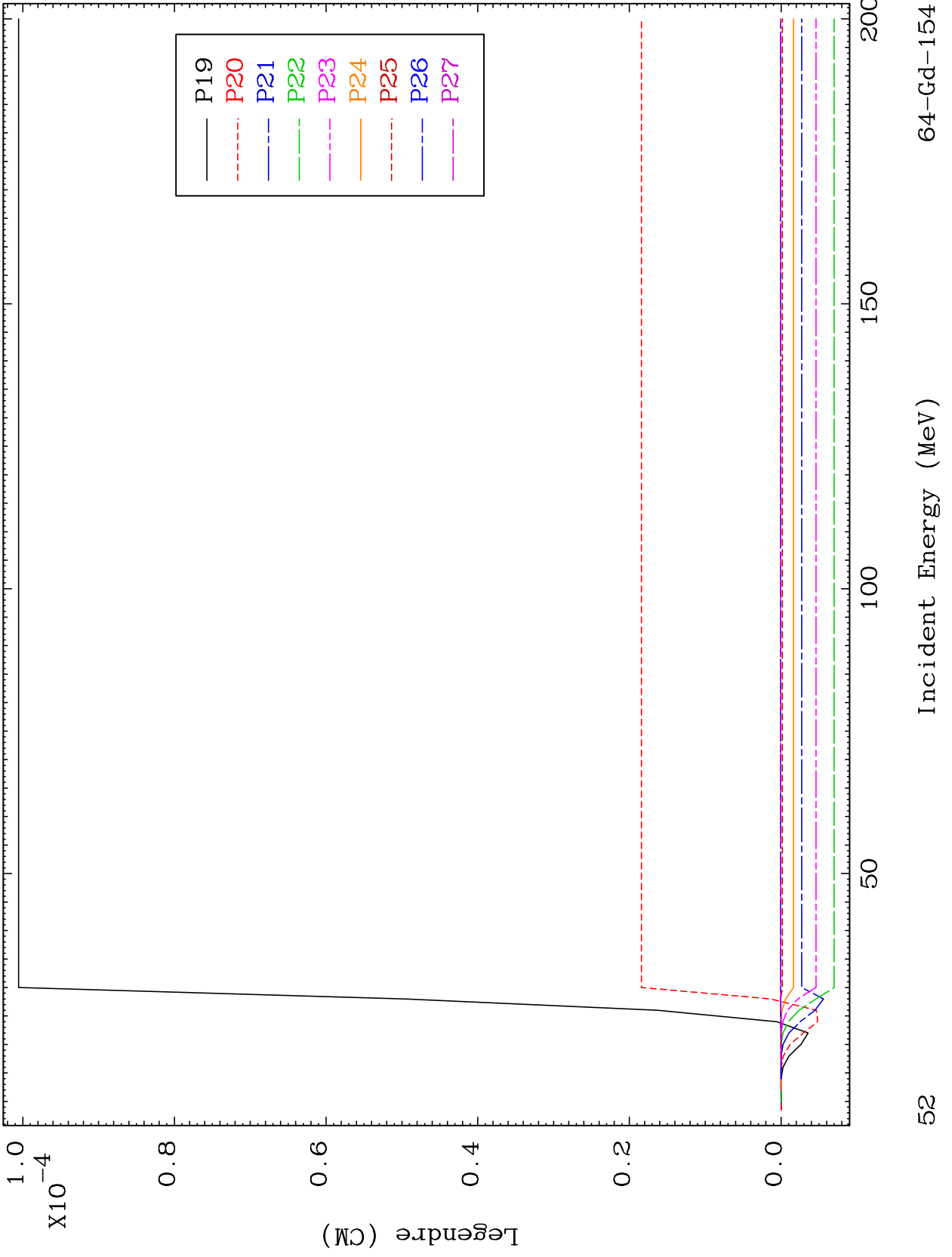
64-Gd-154



51

Incident Energy (MeV)

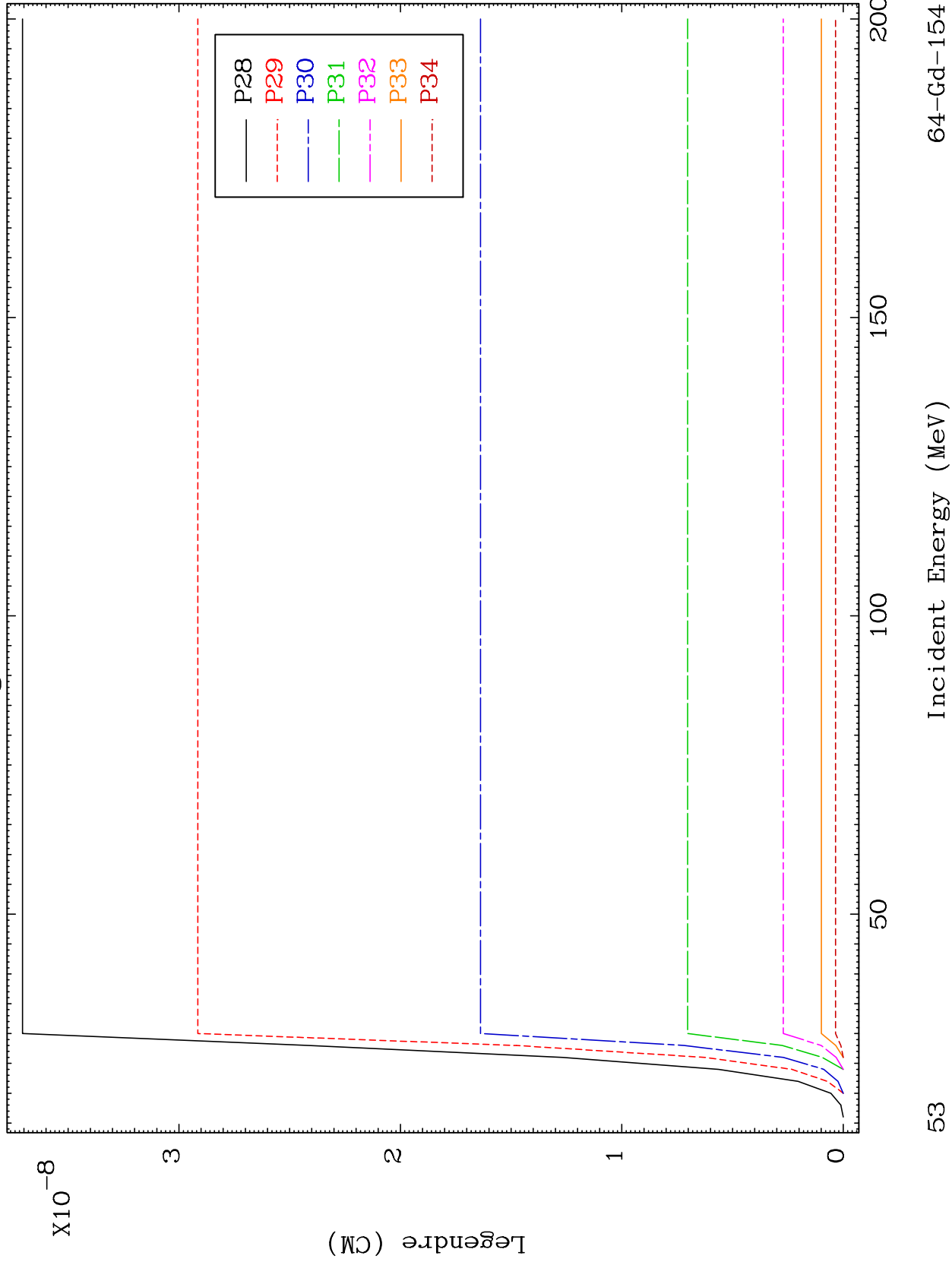
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MAT 6431

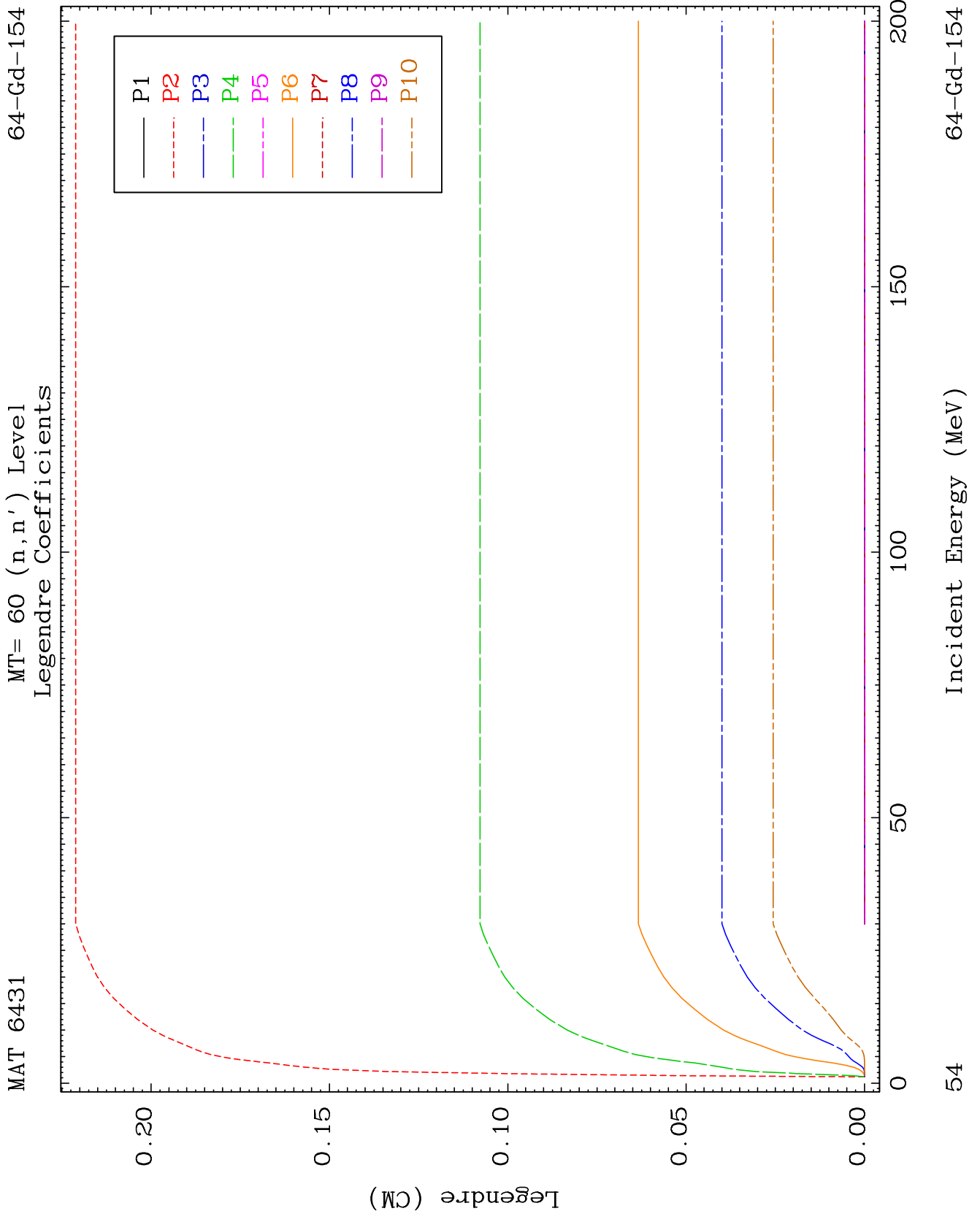
MT= 59 (n,n') Level  
Legendre Coefficients

64-Gd-154



53

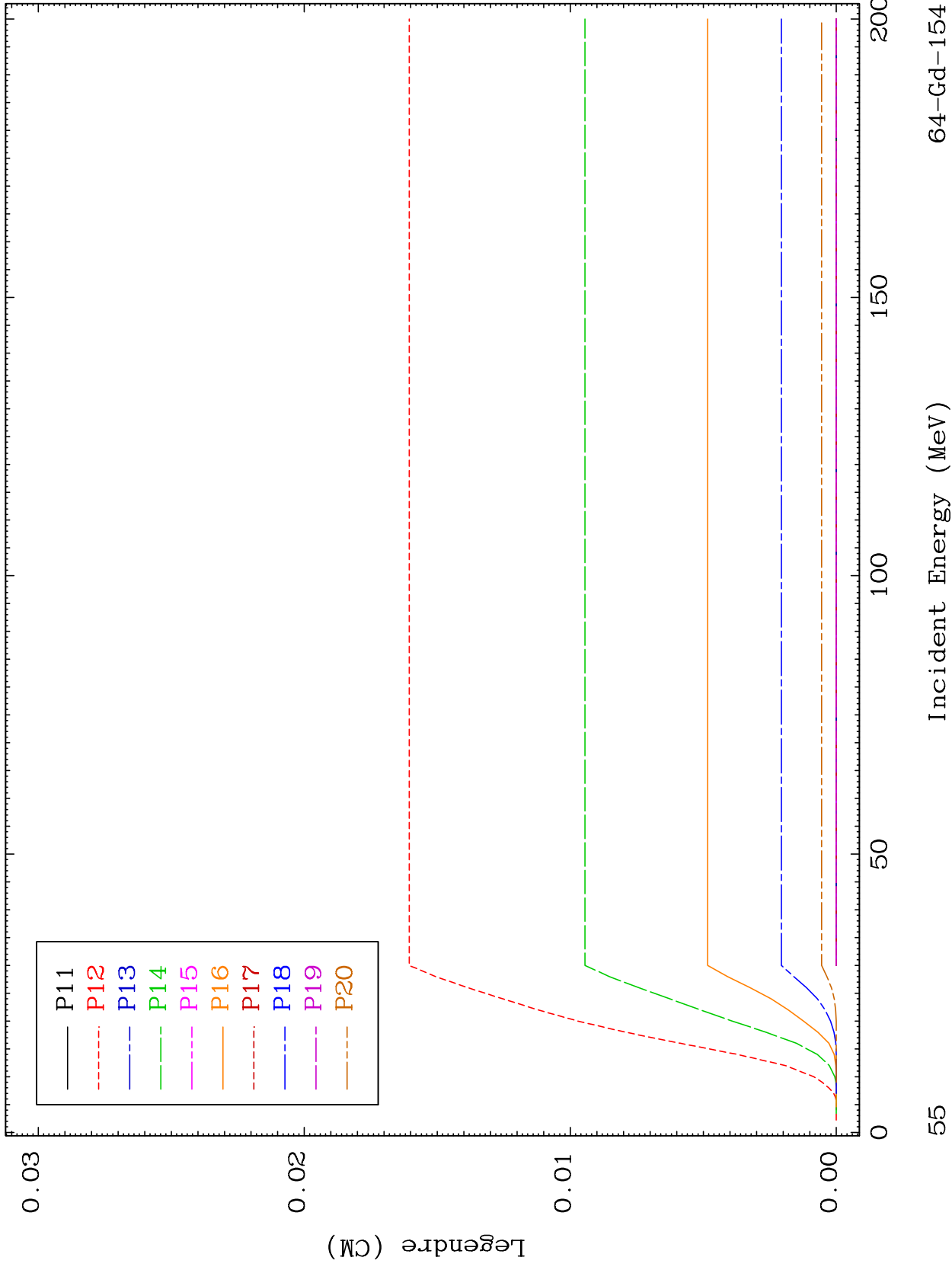
64-Gd-154



MAT 6431

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

64-Gd-154



55

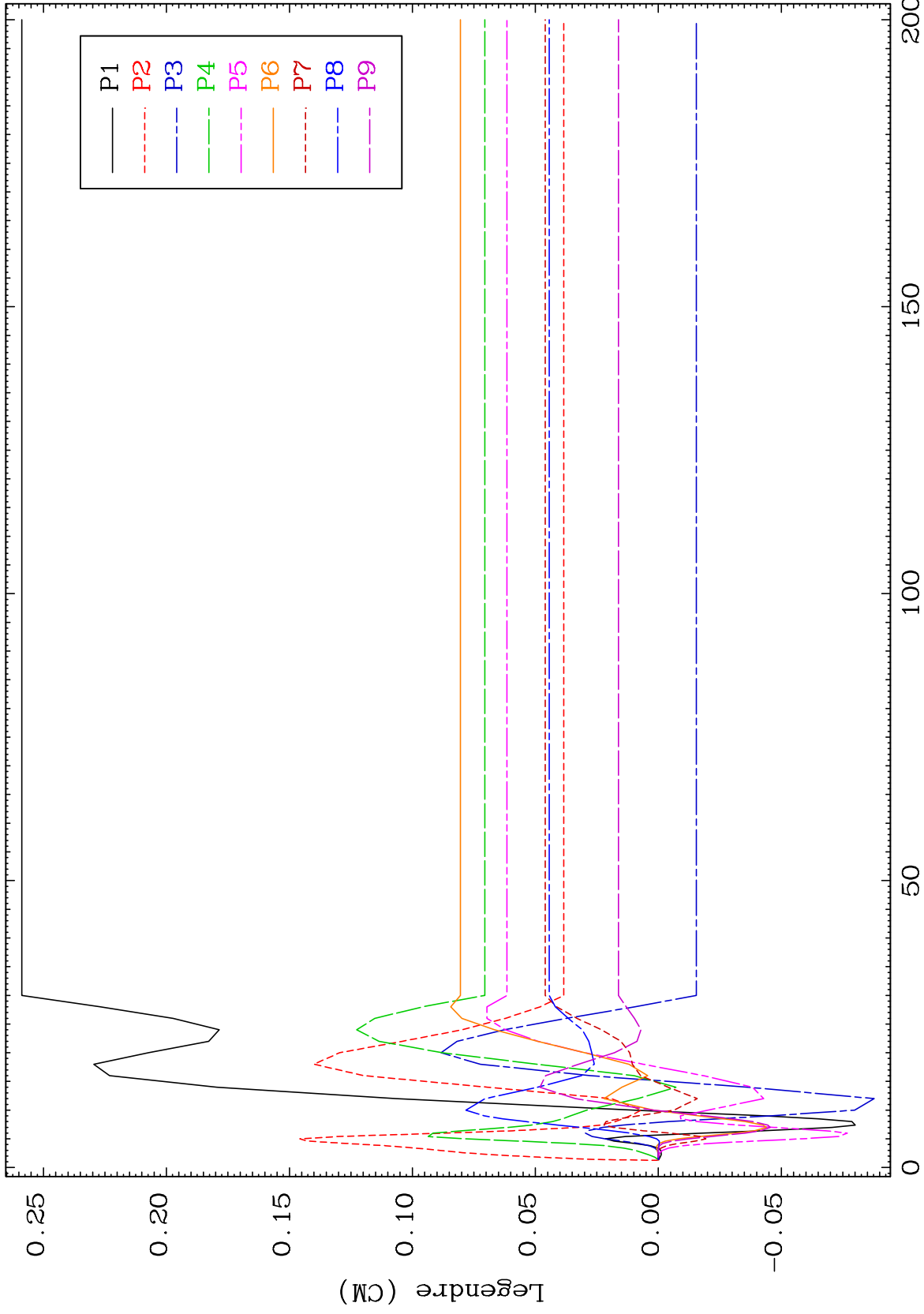




MAT 6431

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

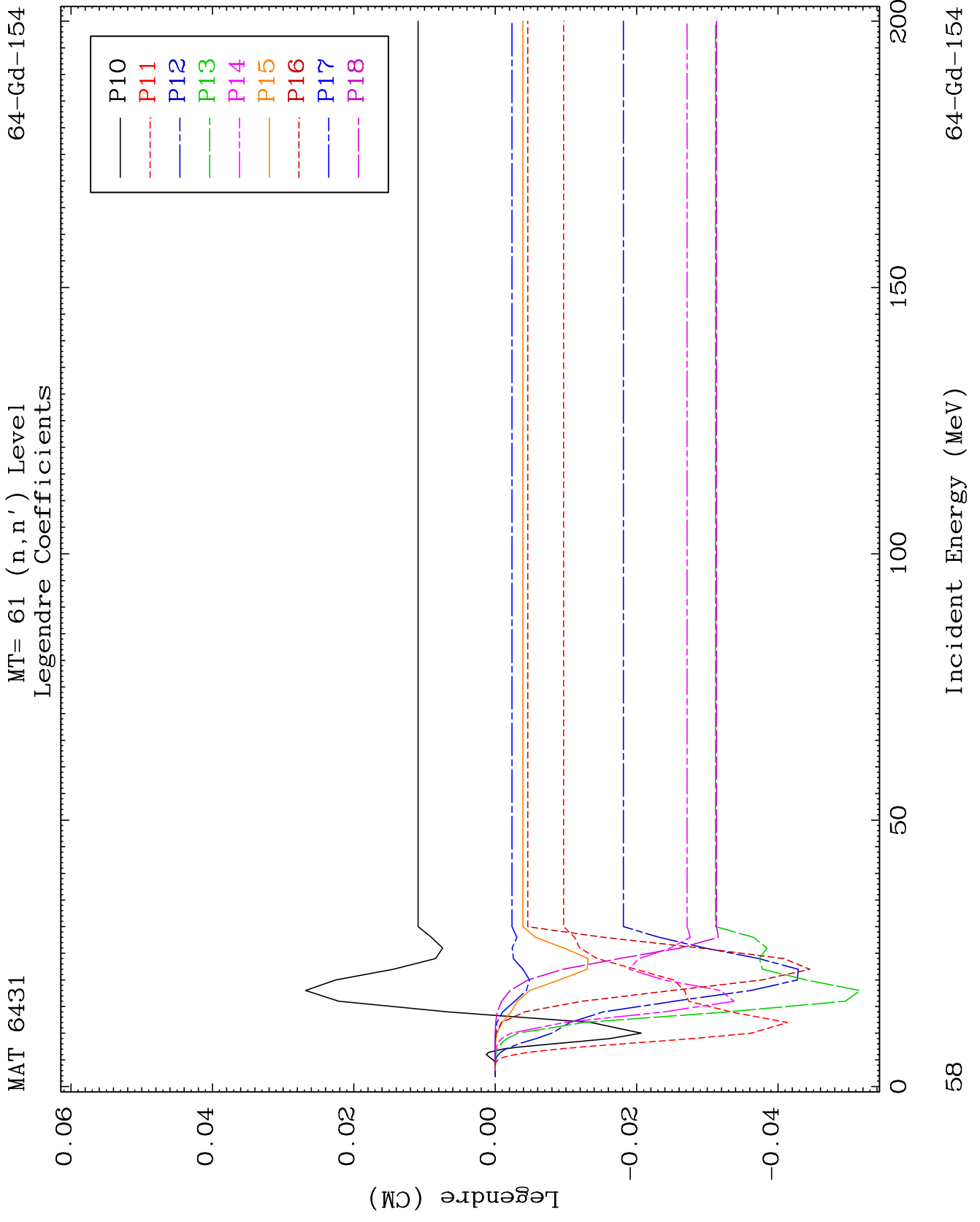
64-Gd-154



57

Incident Energy (MeV)

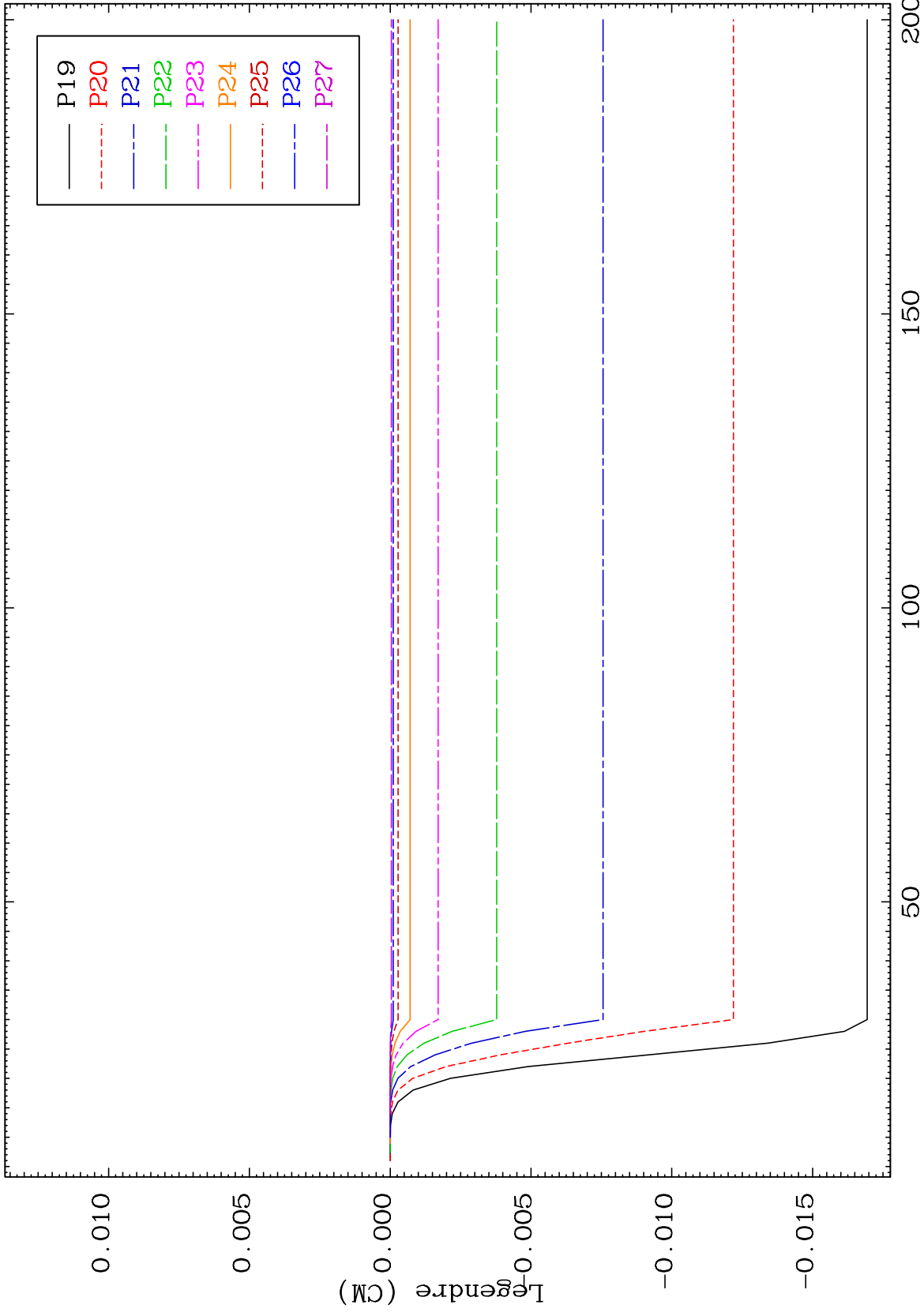
64-Gd-154



MAT 6431

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

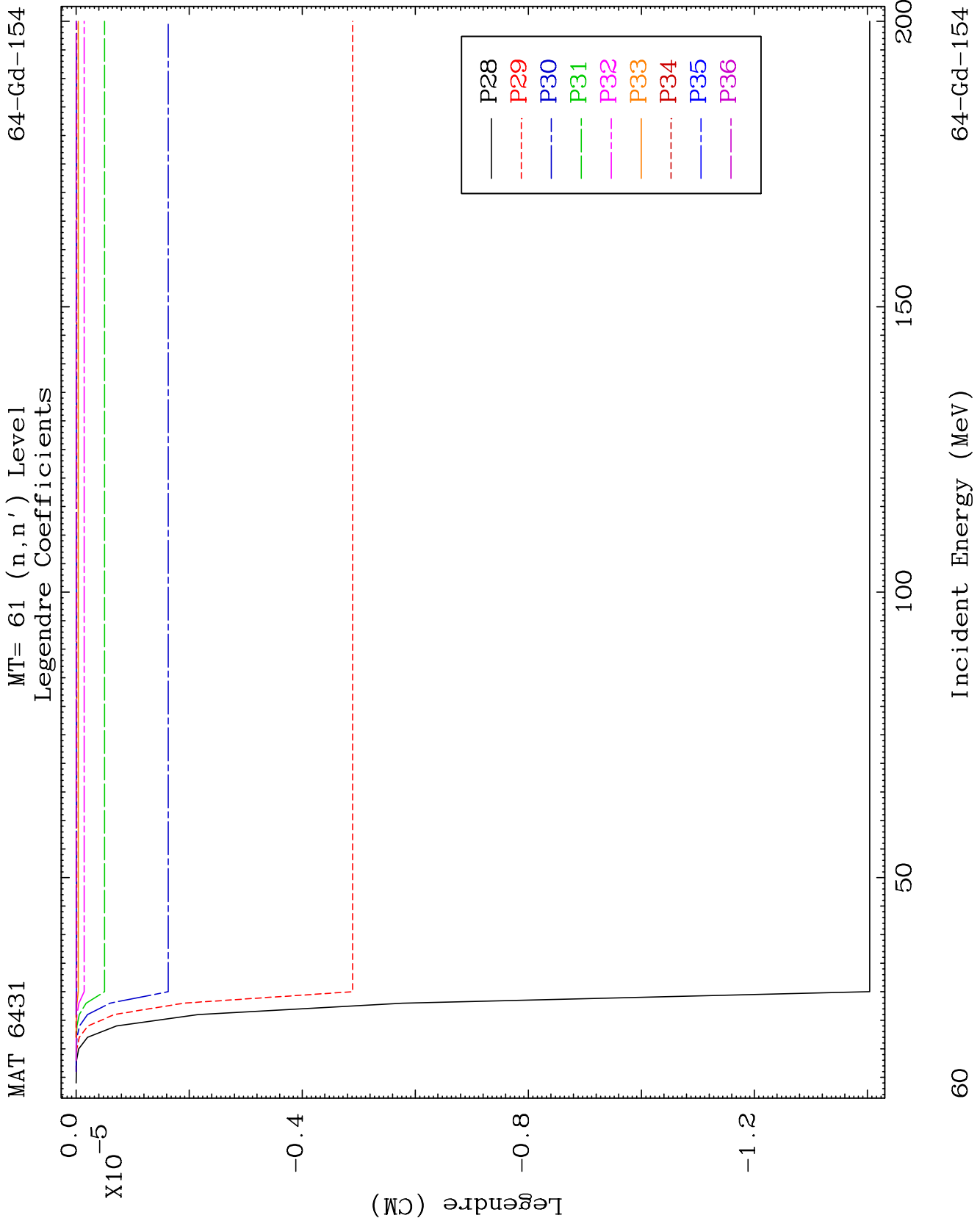
64-Gd-154



59

Incident Energy (MeV)

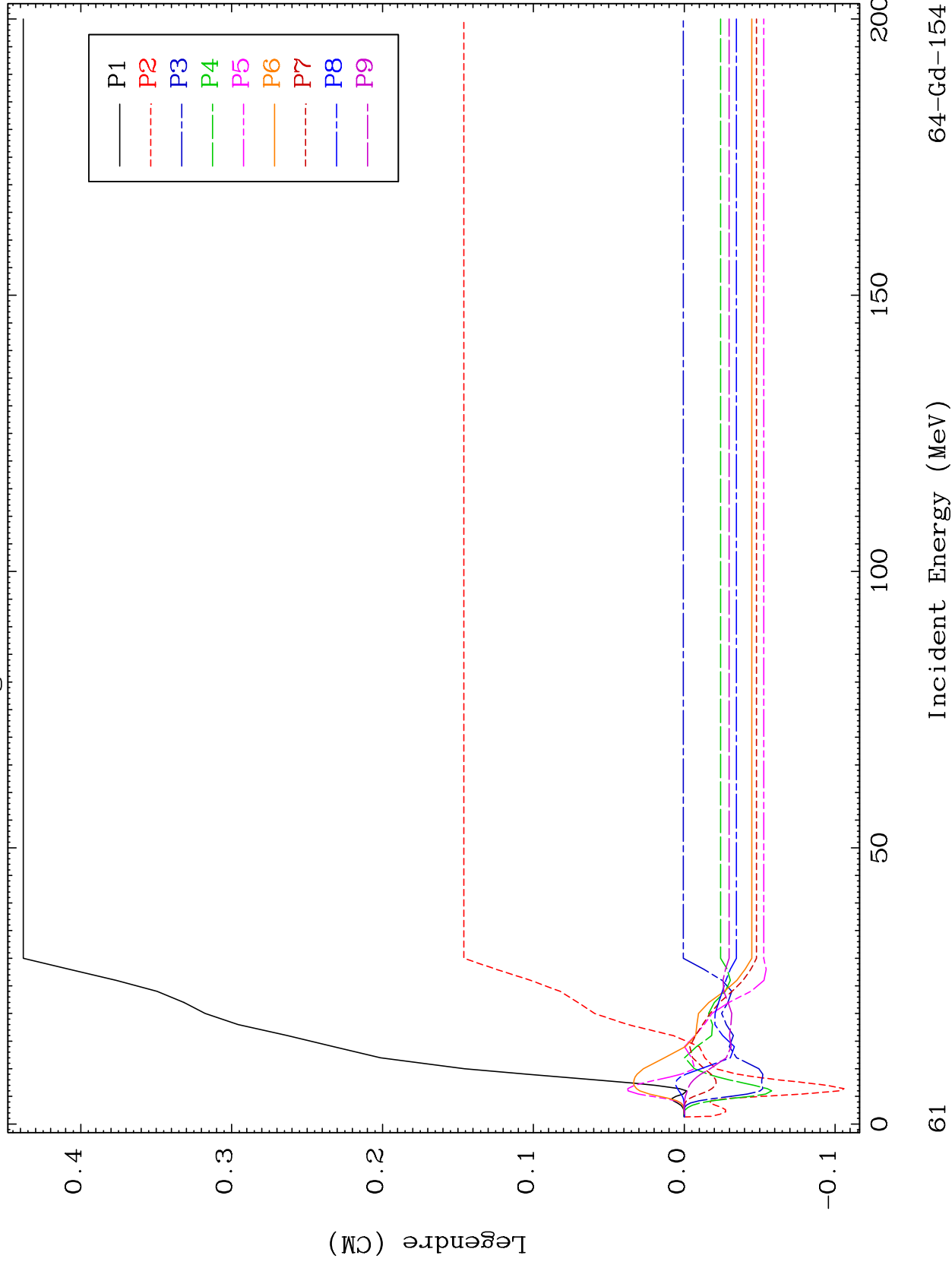
64-Gd-154



MAT 6431

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

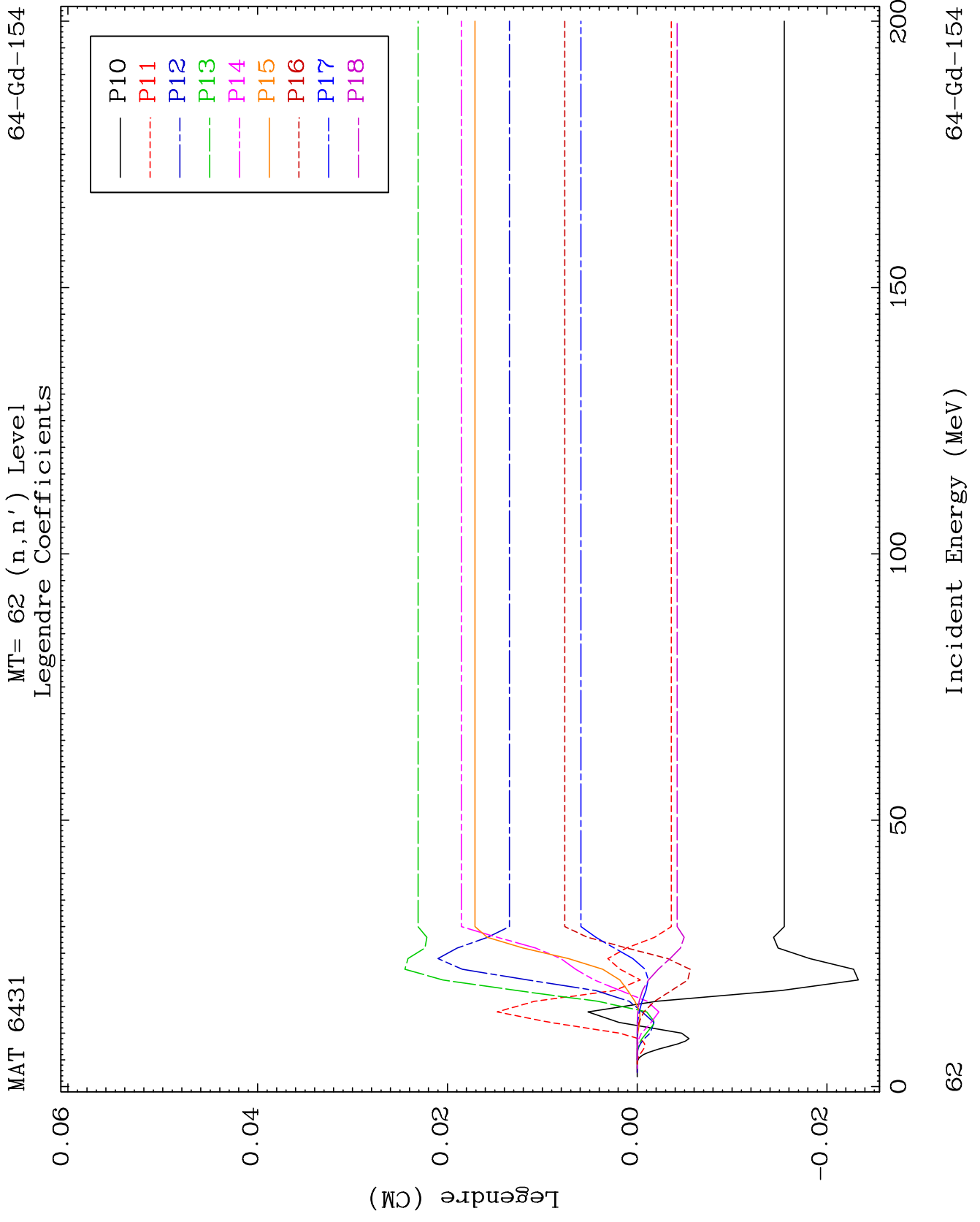
64-Gd-154



64-Gd-154

Incident Energy (MeV)

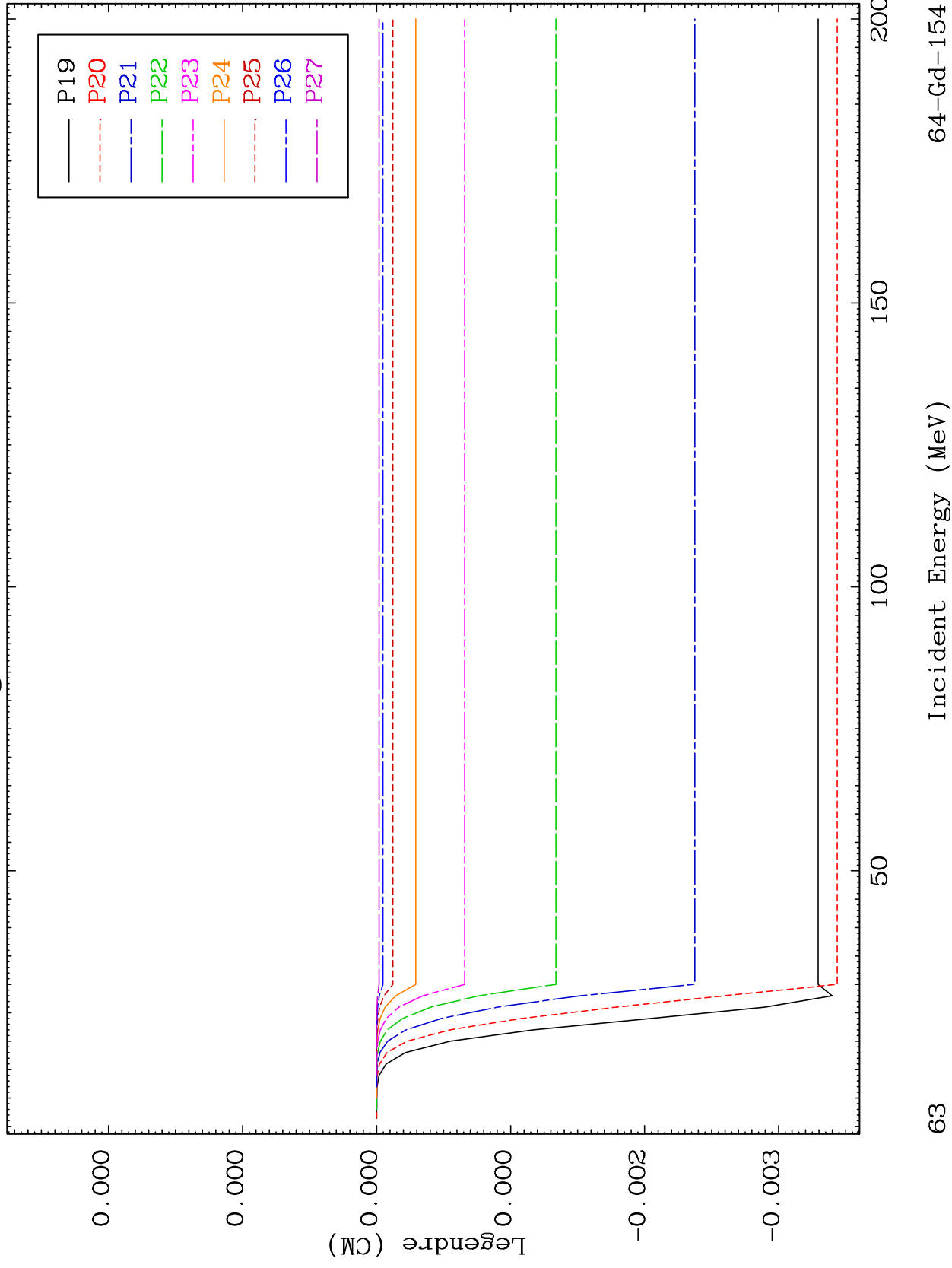
61



MAT 6431

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

64-Gd-154



63

64-Gd-154

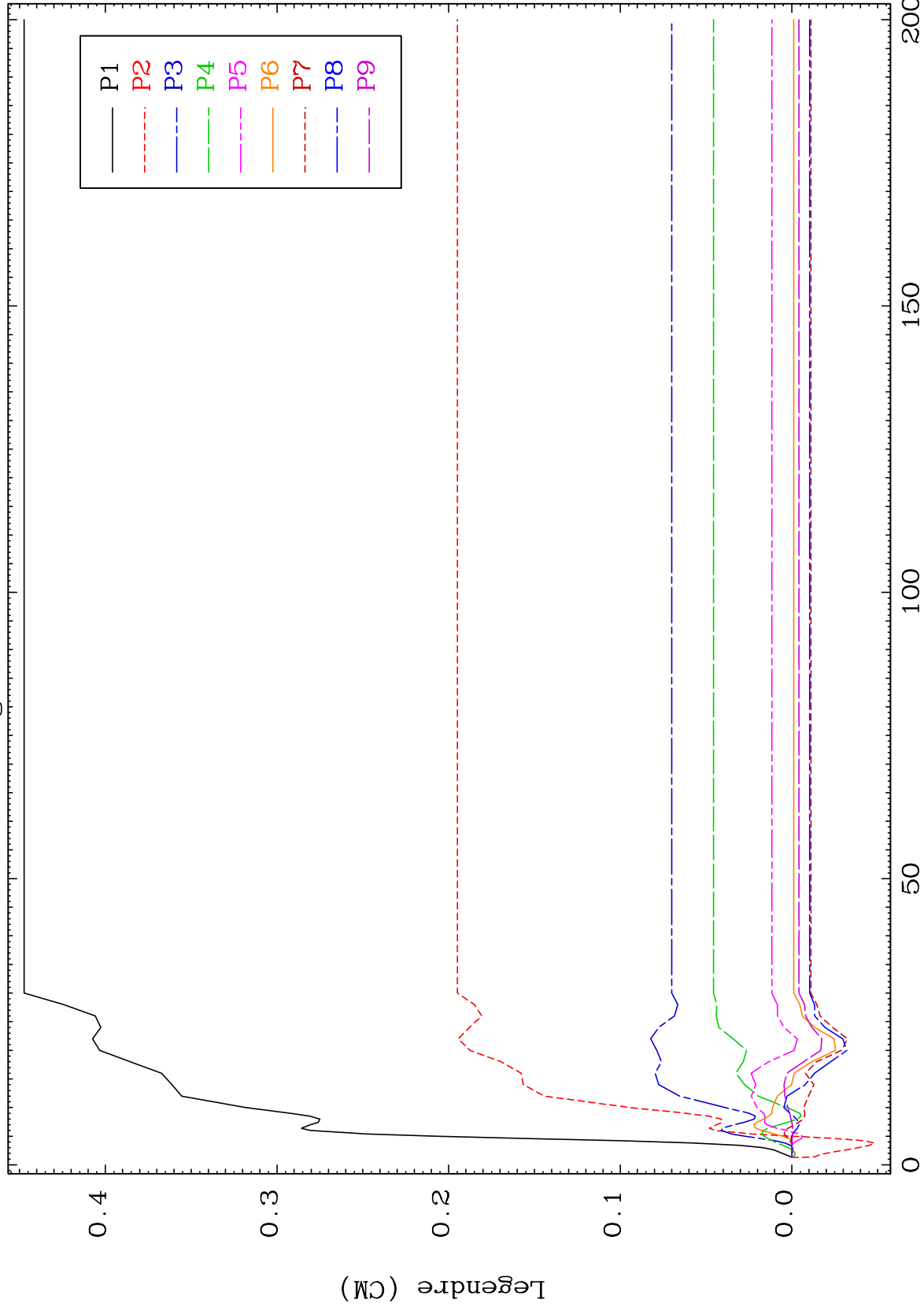




MAT 6431

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

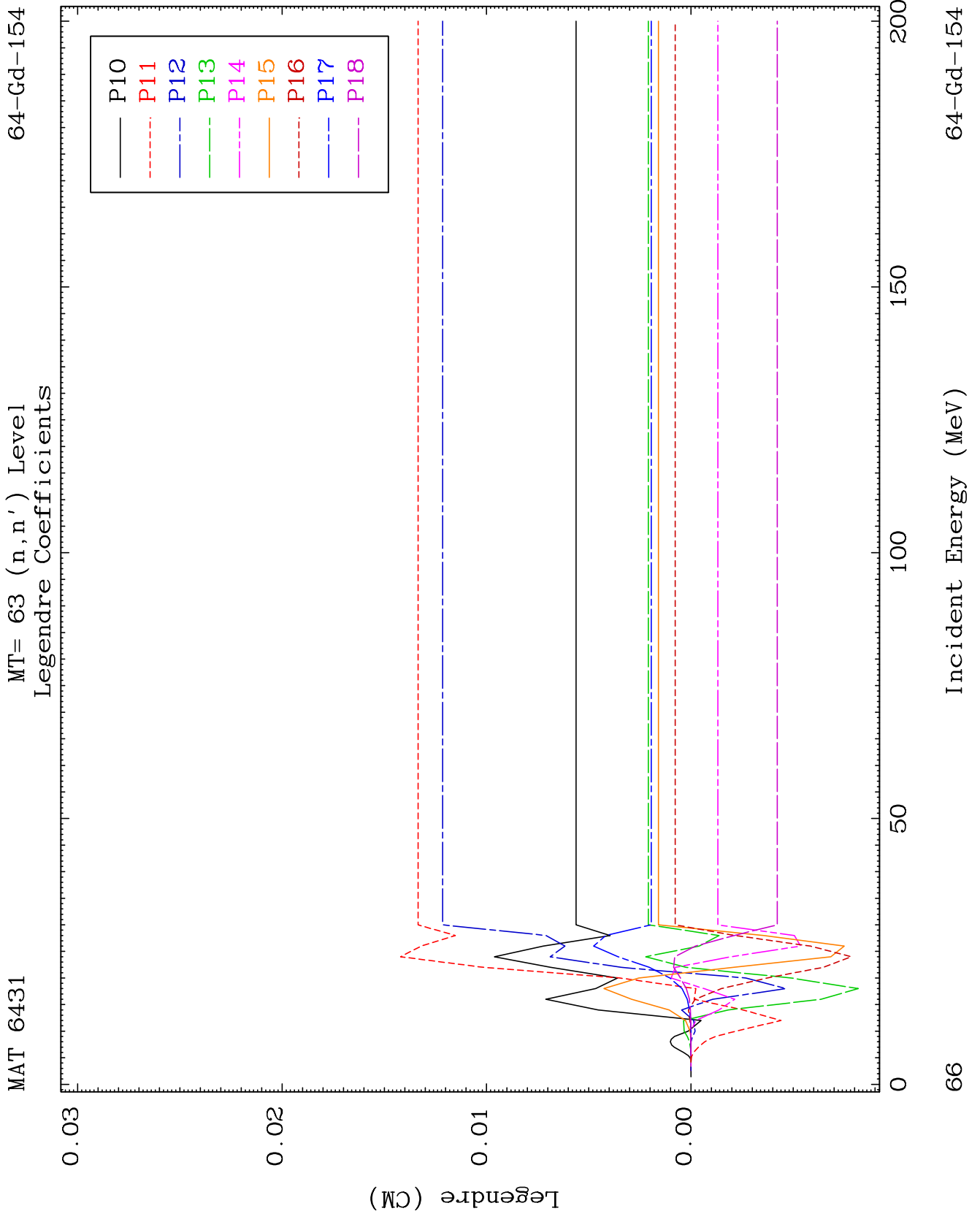
64-Gd-154



64-Gd-154

Incident Energy (MeV)

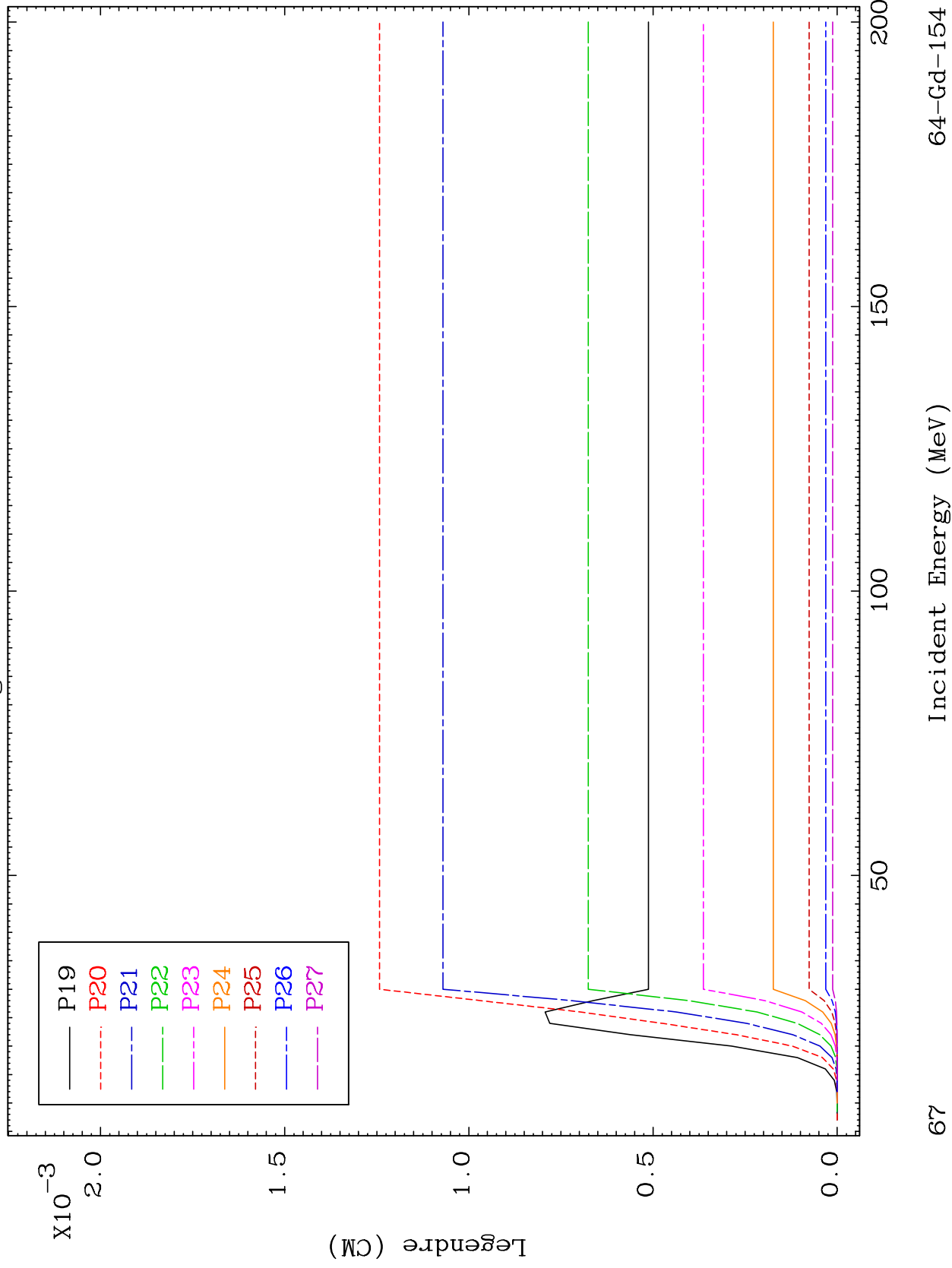
65



MAT 6431

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

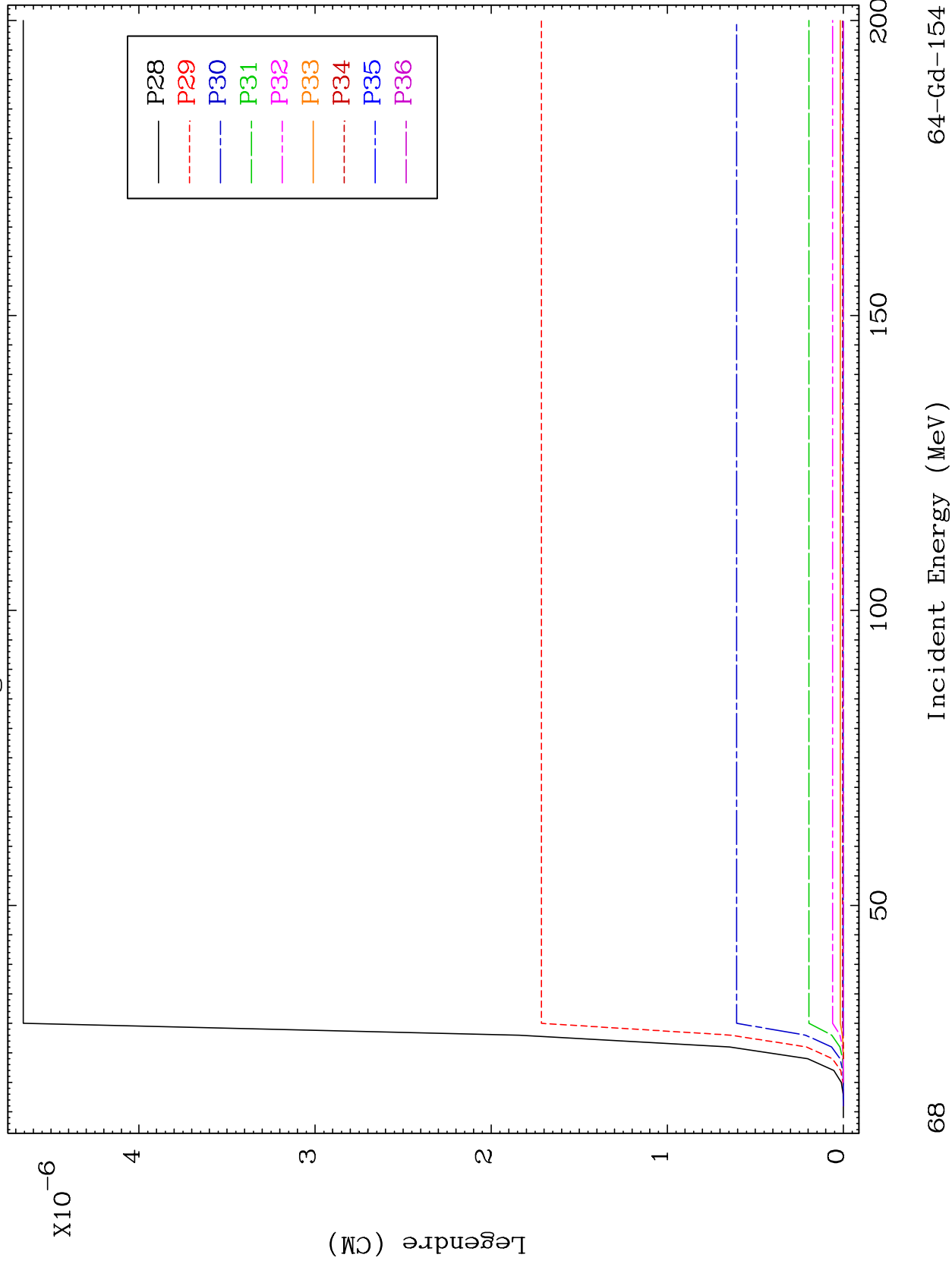
64-Gd-154



MAT 6431

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

64-Gd-154



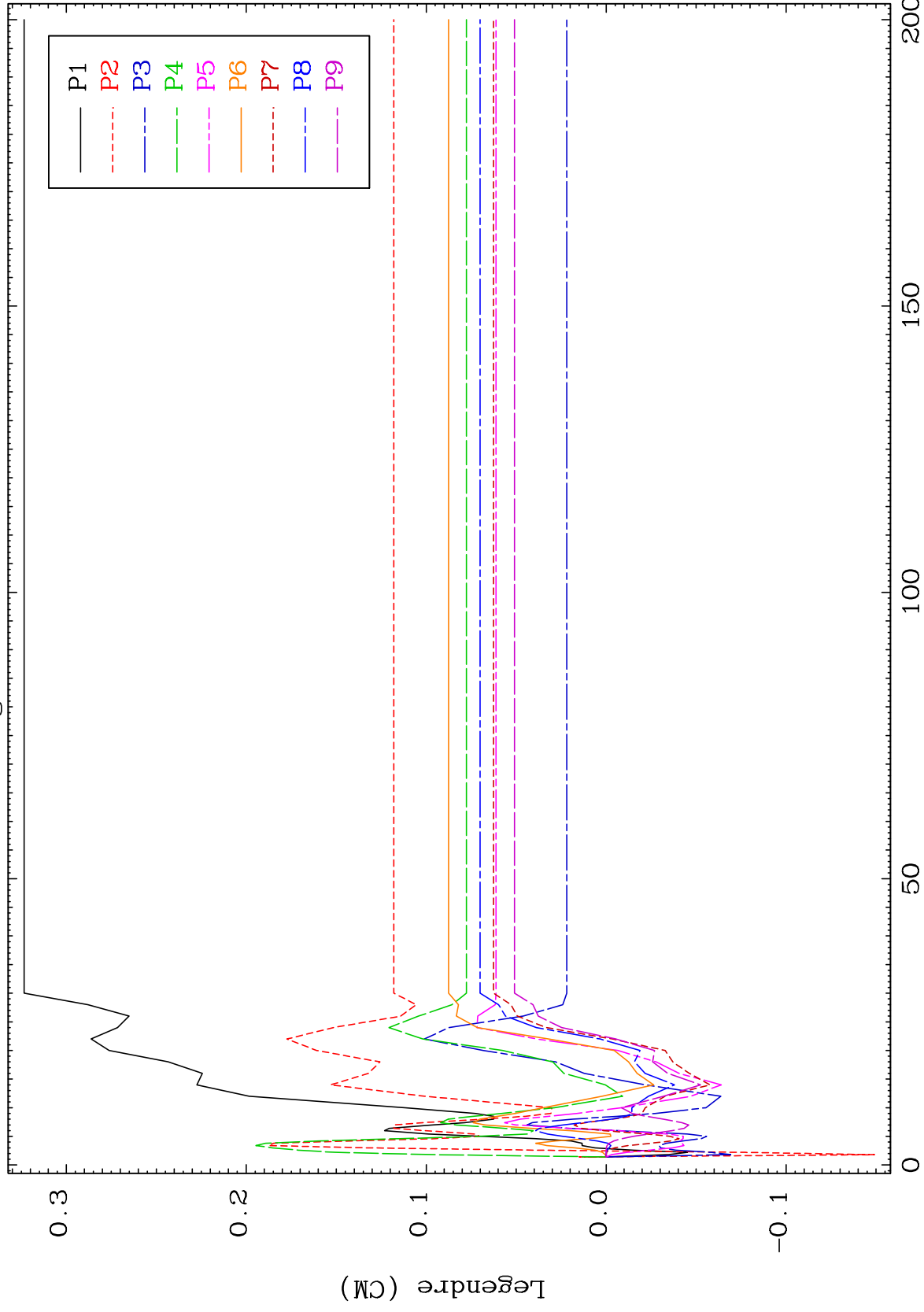
68

64-Gd-154

MAT 6431

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

64-Gd-154



69

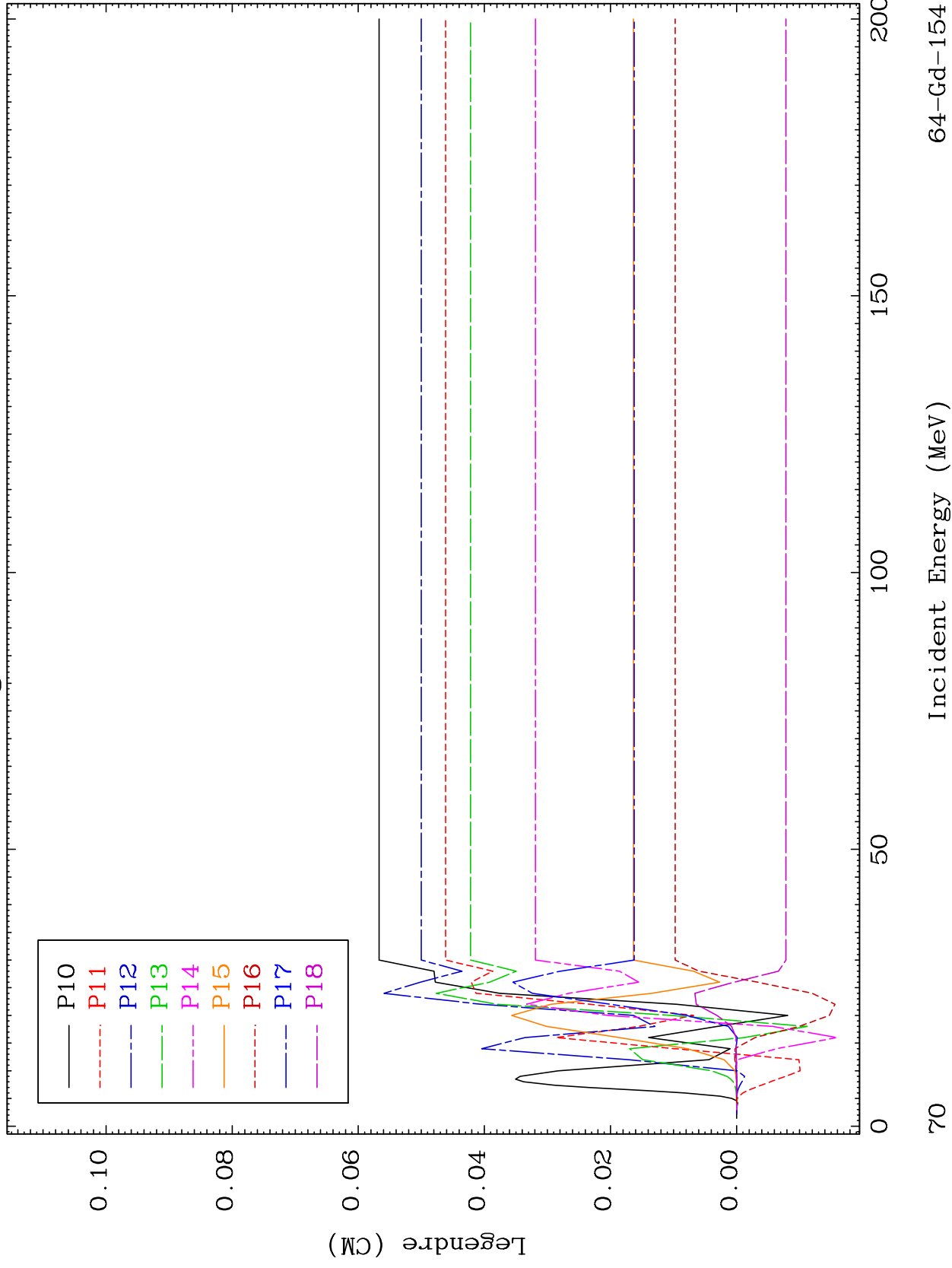
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154



64-Gd-154

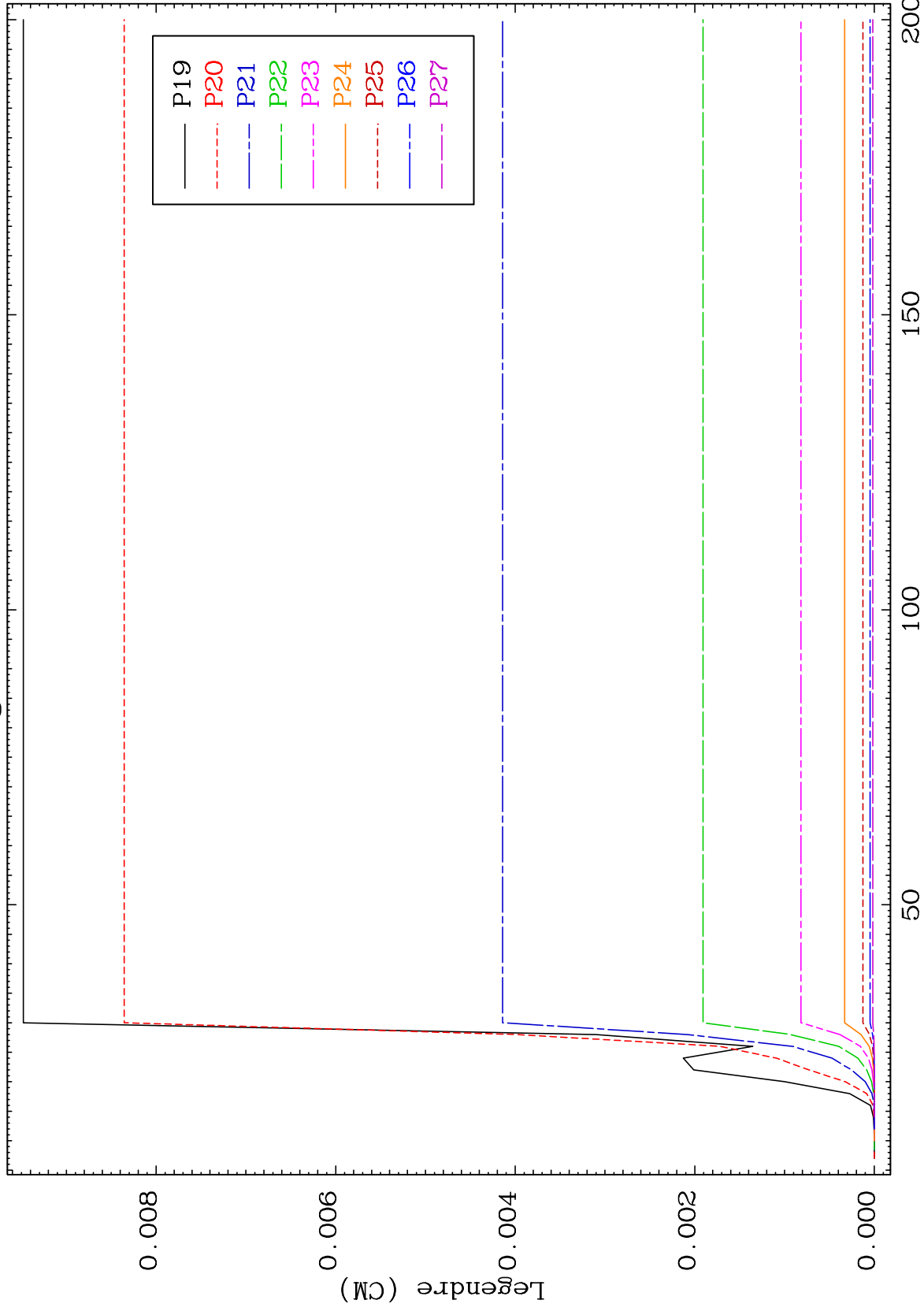
Incident Energy (MeV)

70

MAT 6431

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

64-Gd-154



71

Incident Energy (MeV)

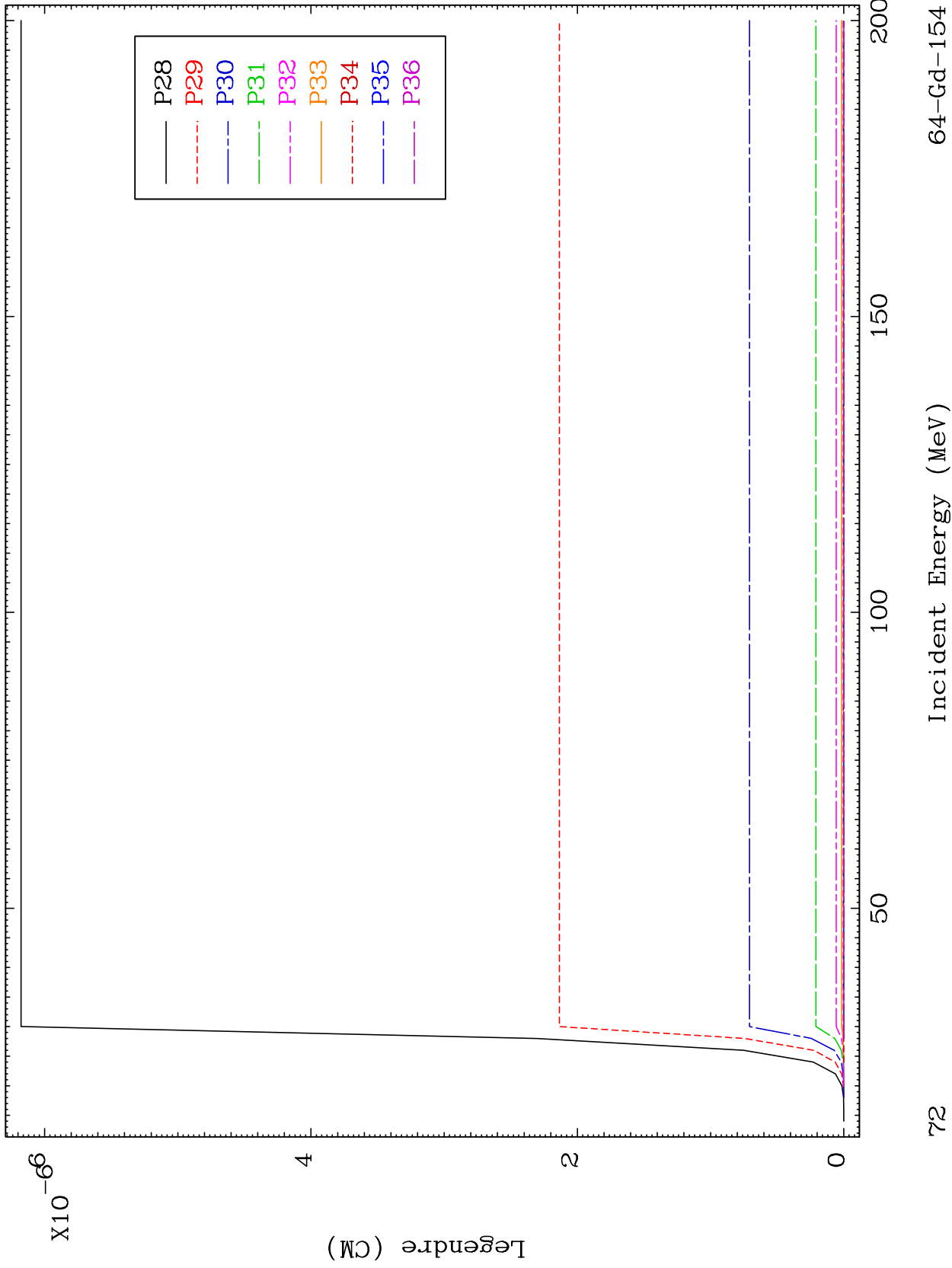
64-Gd-154



MAT 6431

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

64-Gd-154



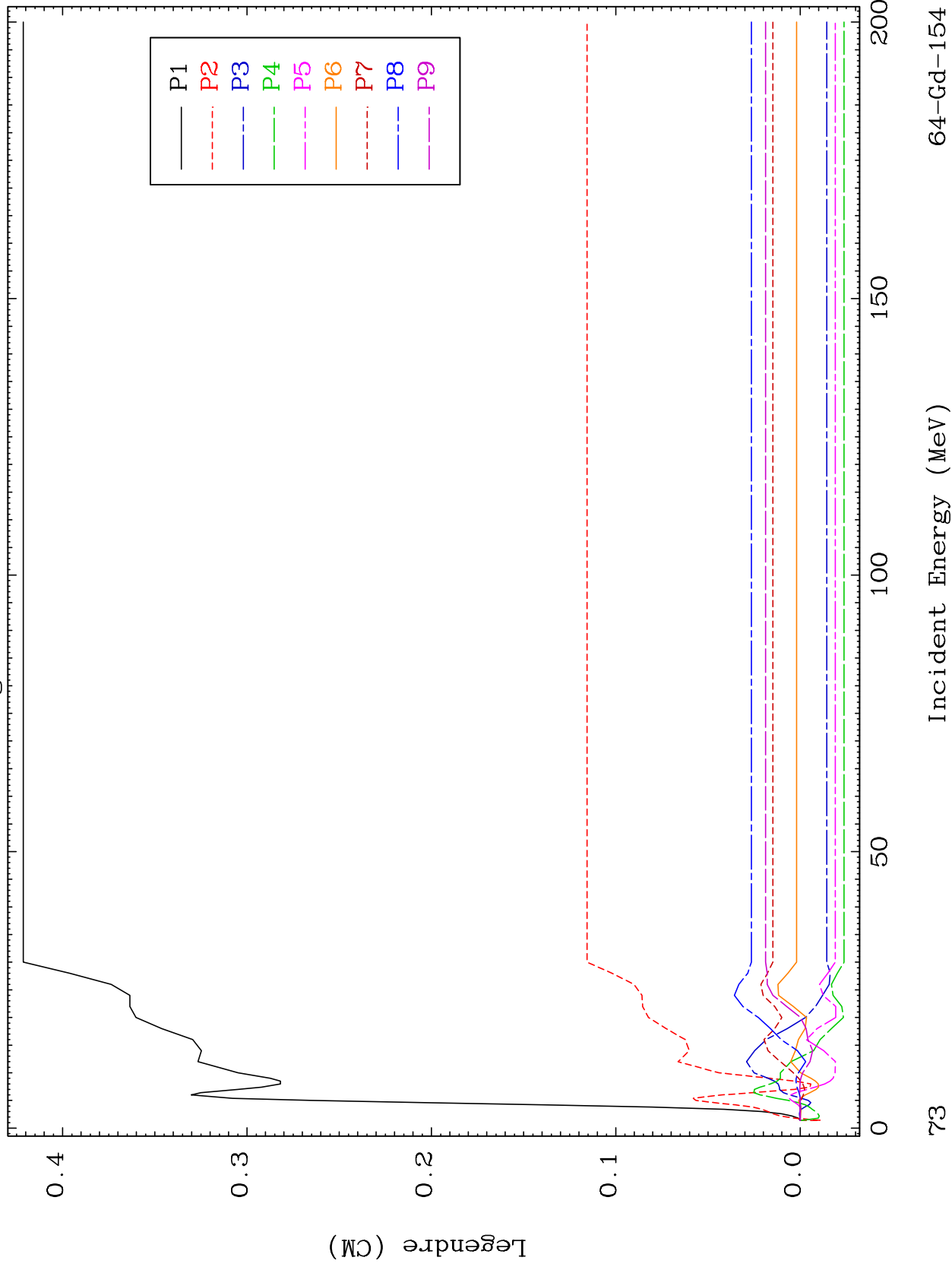
72

64-Gd-154

MAT 6431

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

64-Gd-154



73

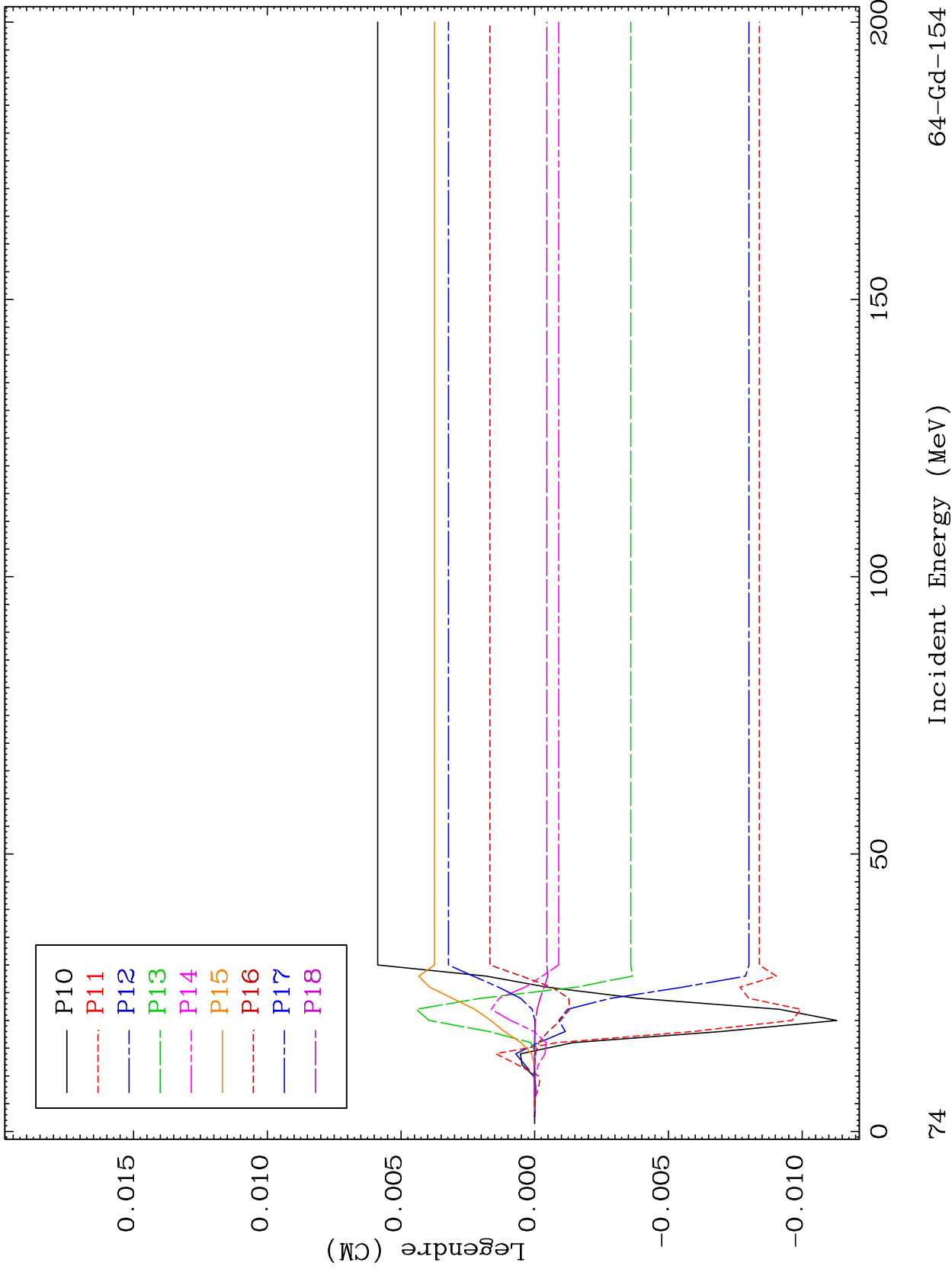
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154



74

Incident Energy (MeV)

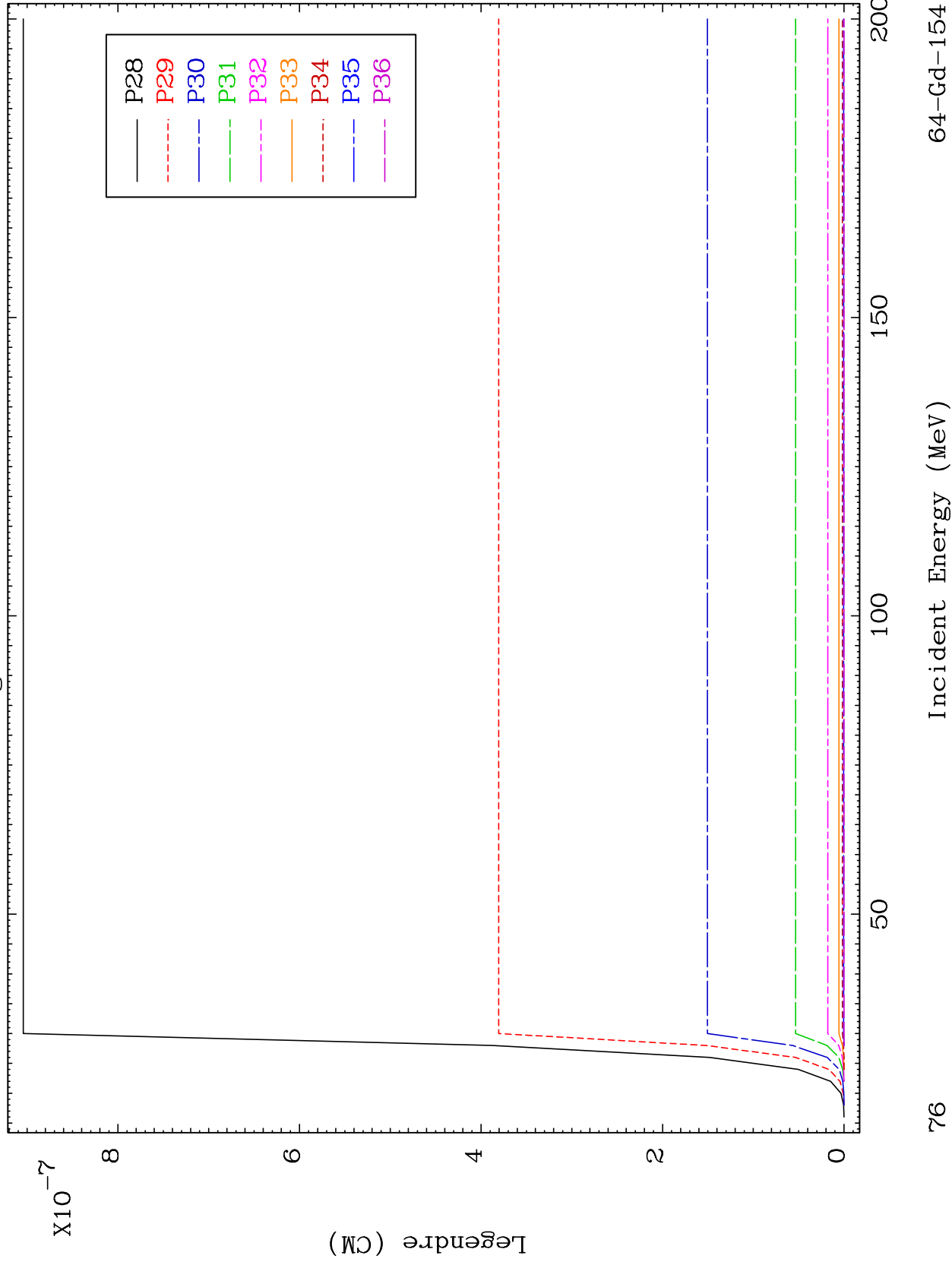
64-Gd-154



MAT 6431

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

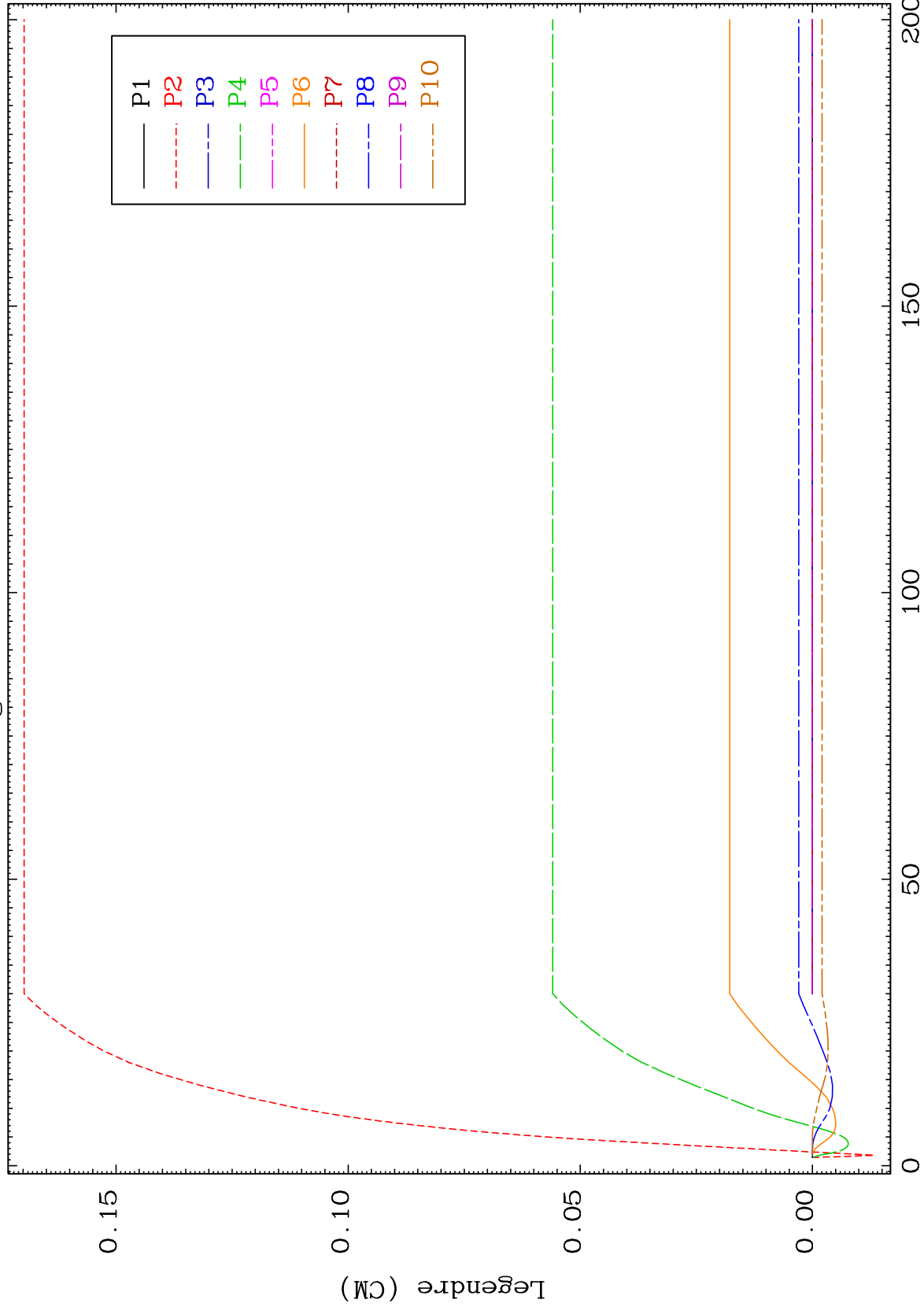
64-Gd-154



MAT 6431

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

64-Gd-154



77

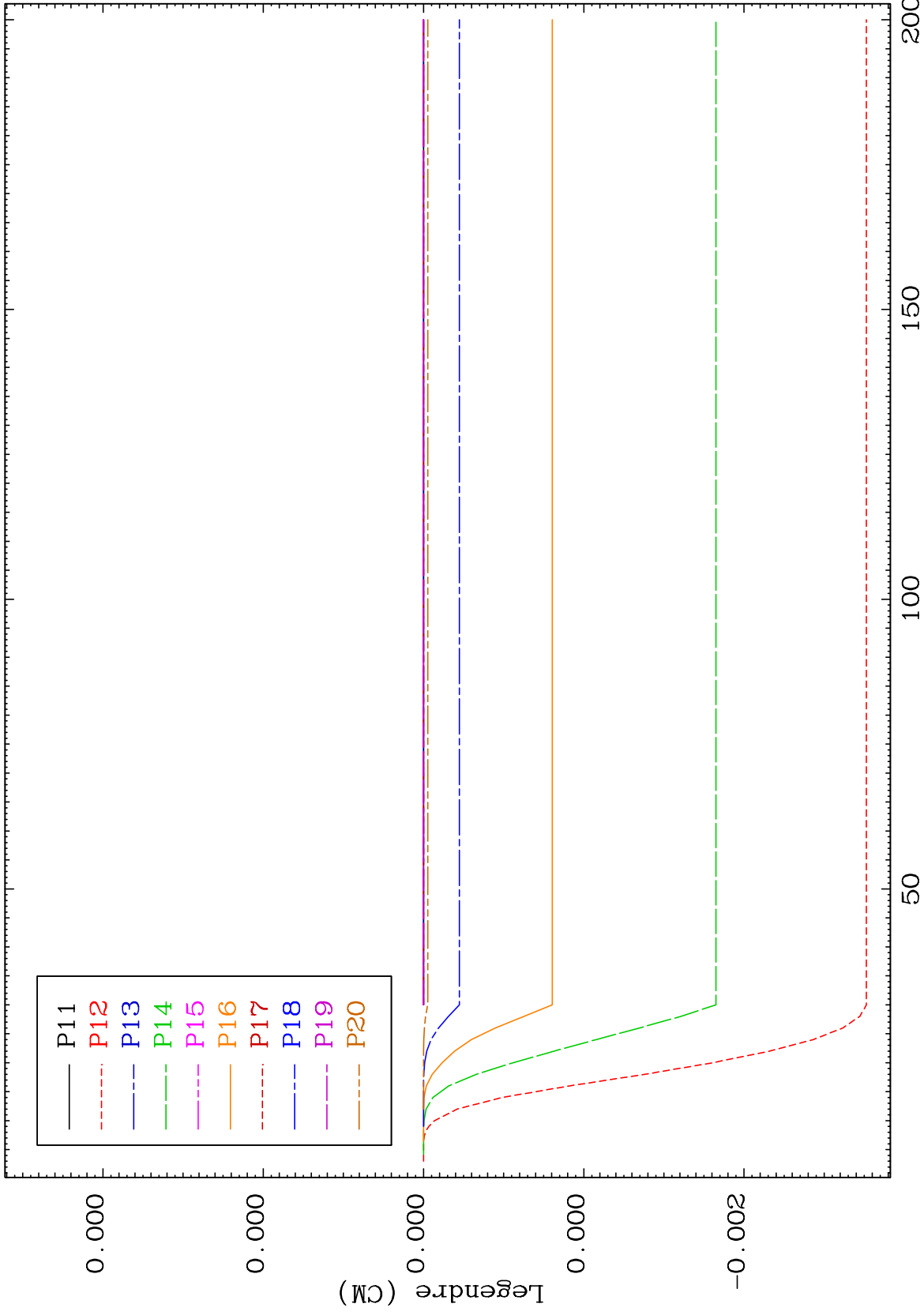
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

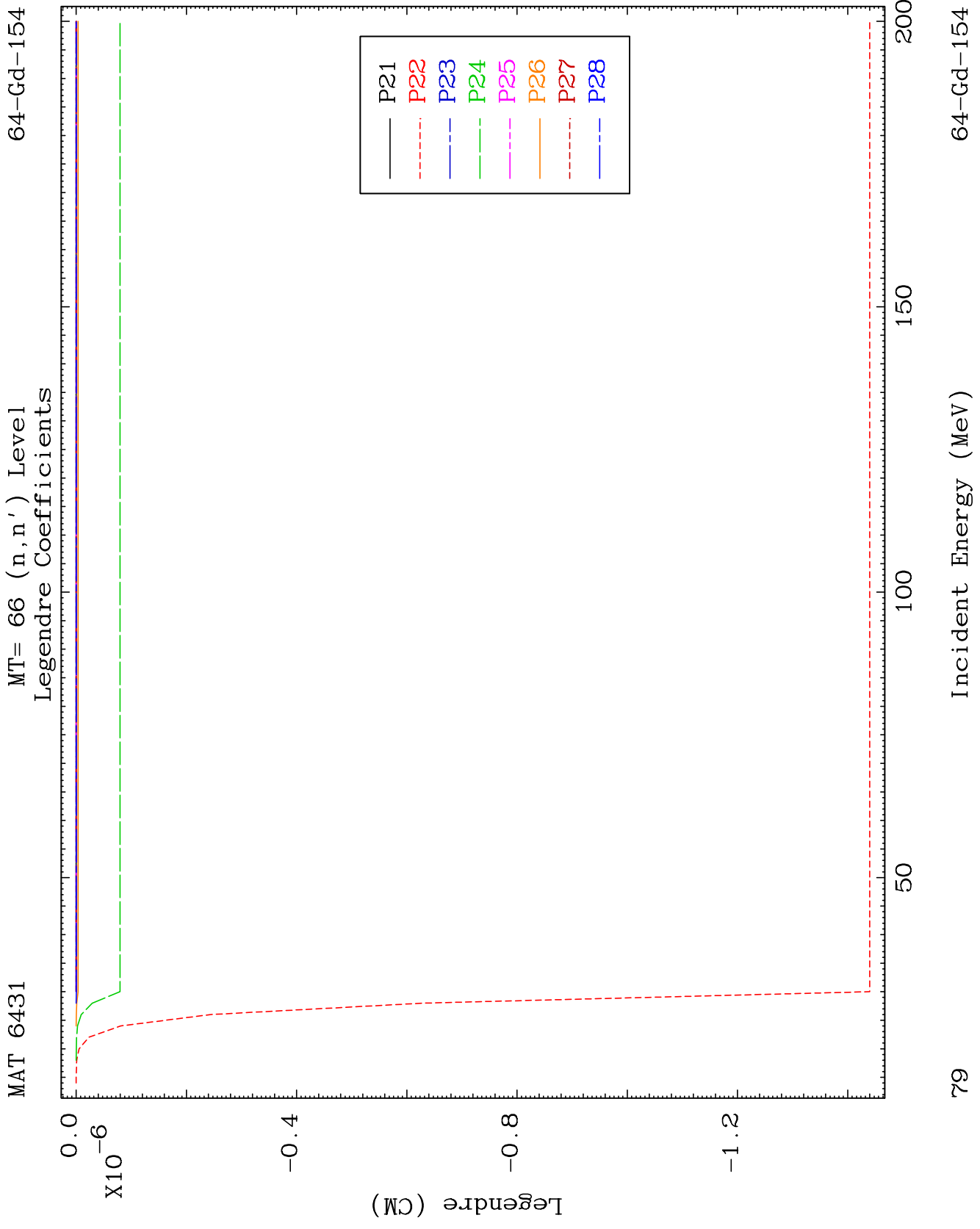
64-Gd-154



78

Incident Energy (MeV)

64-Gd-154

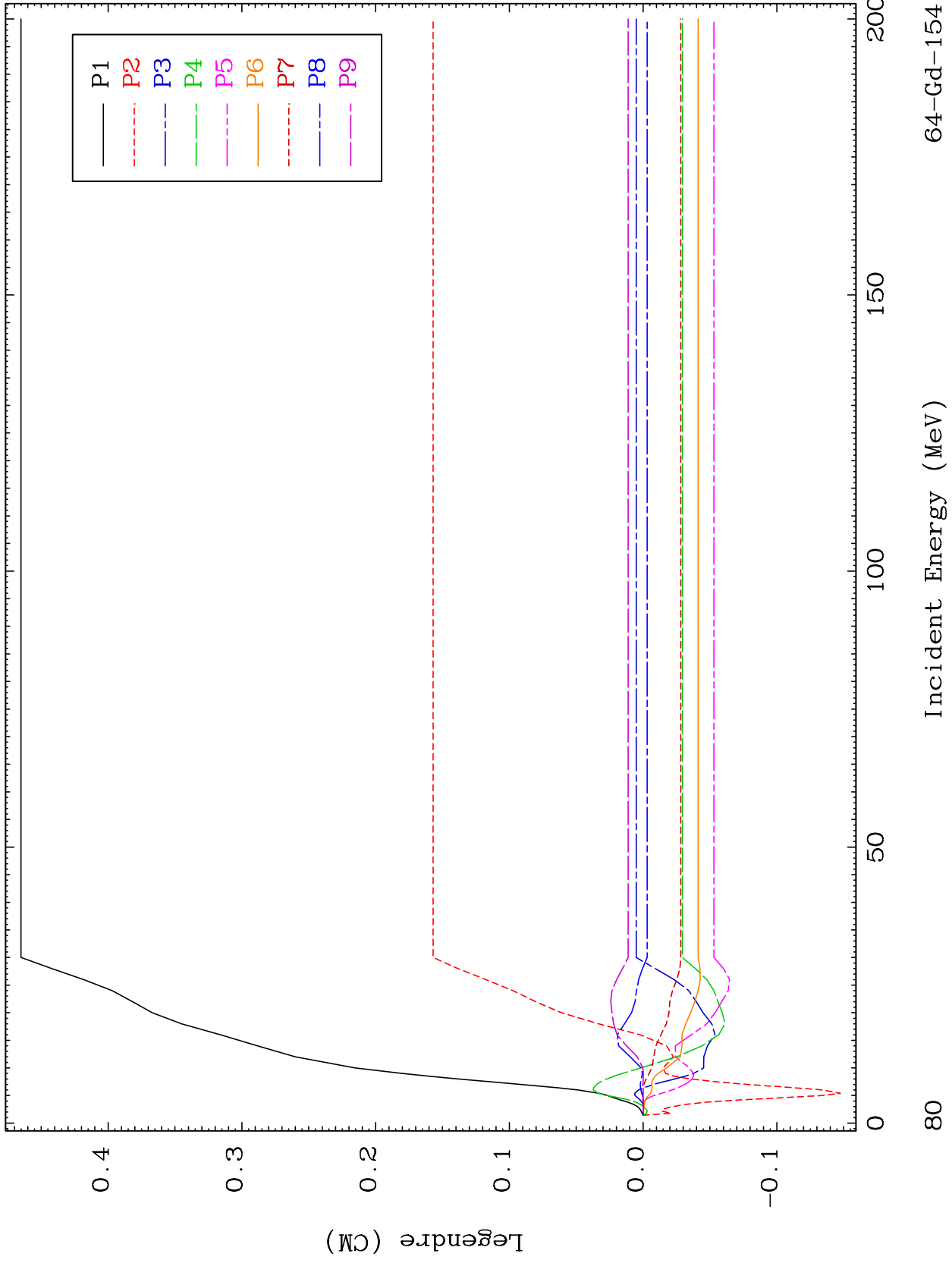




MAT 6431

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

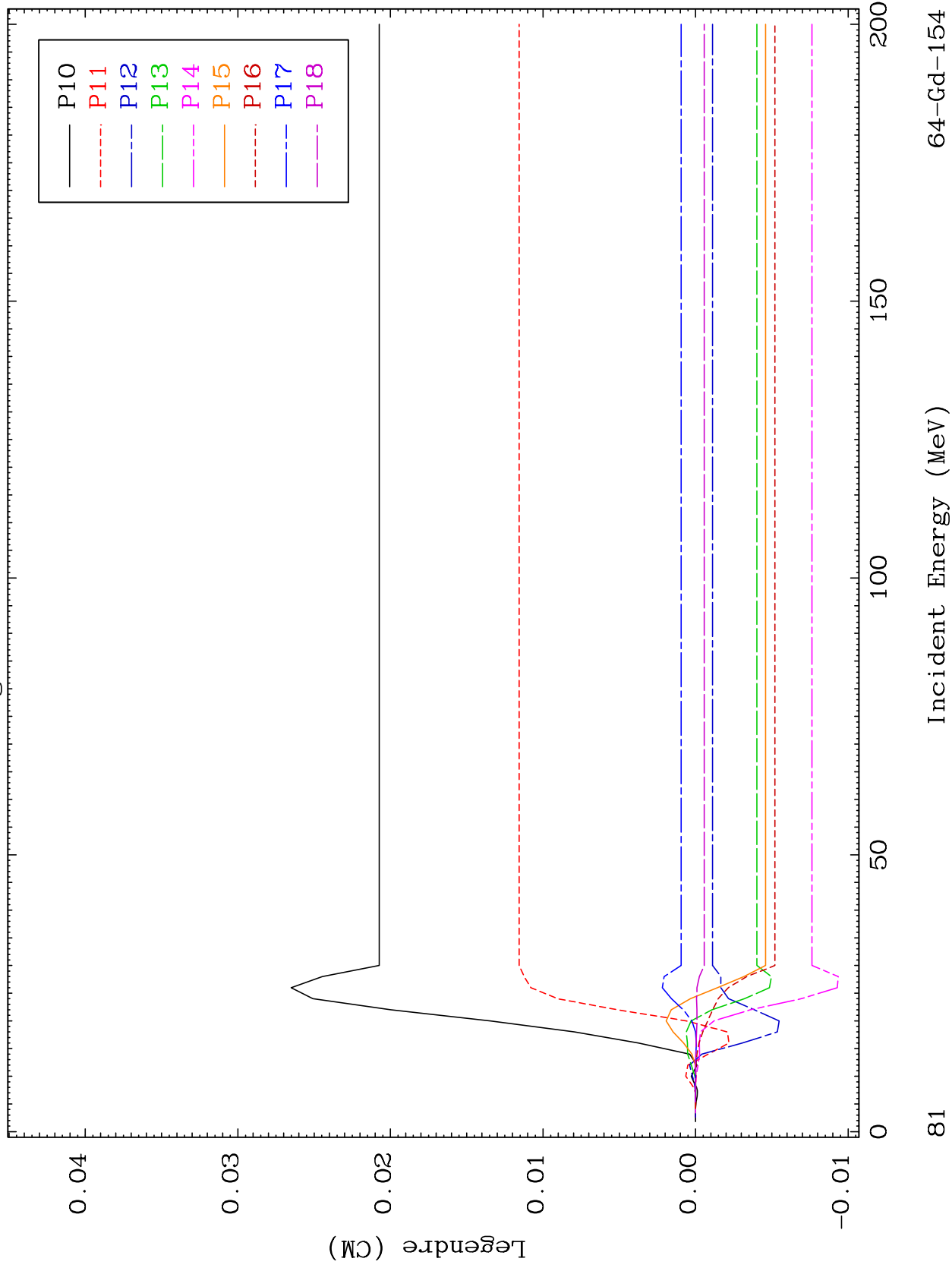
64-Gd-154



MAT 6431

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

64-Gd-154



81

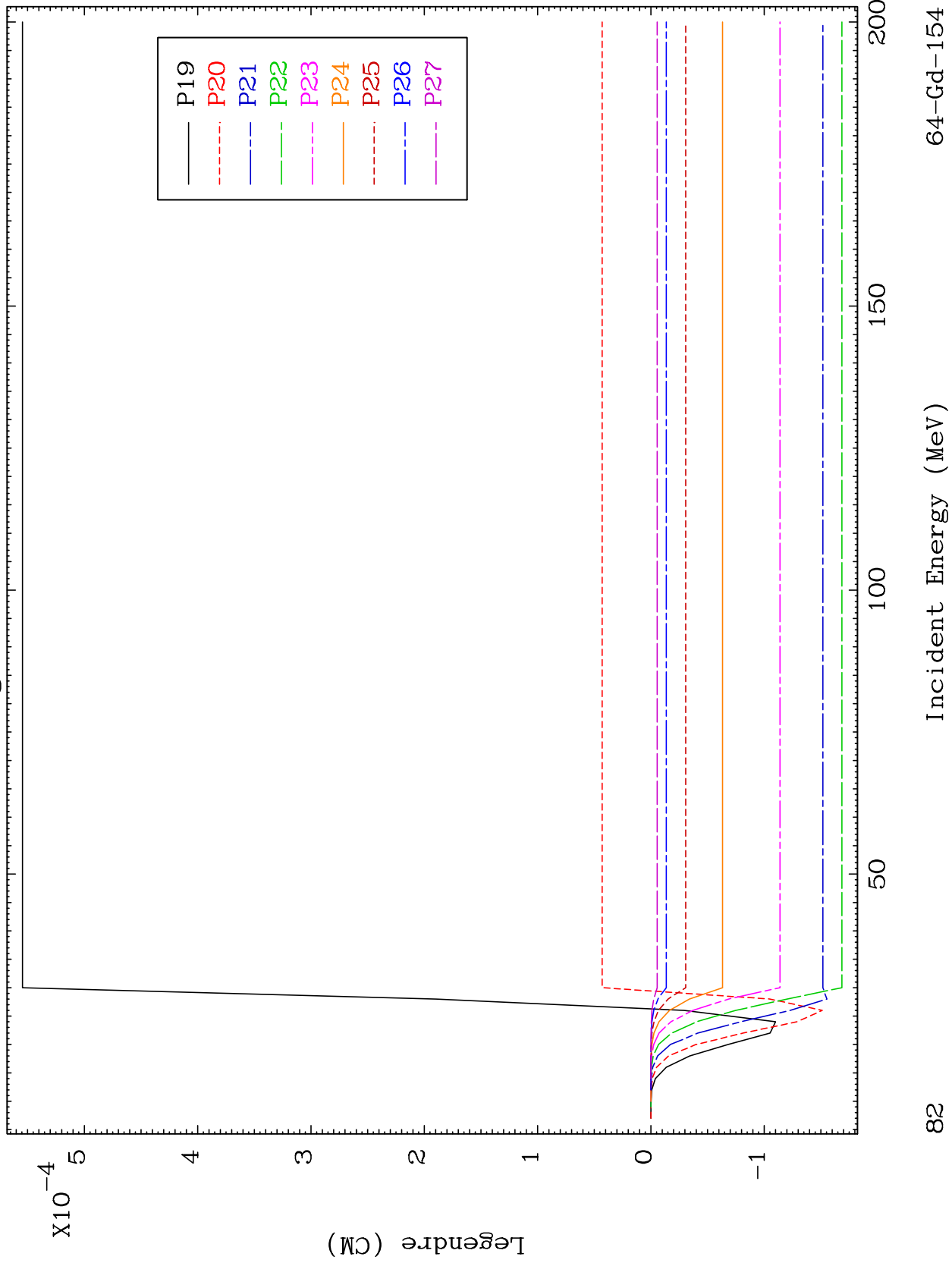
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154

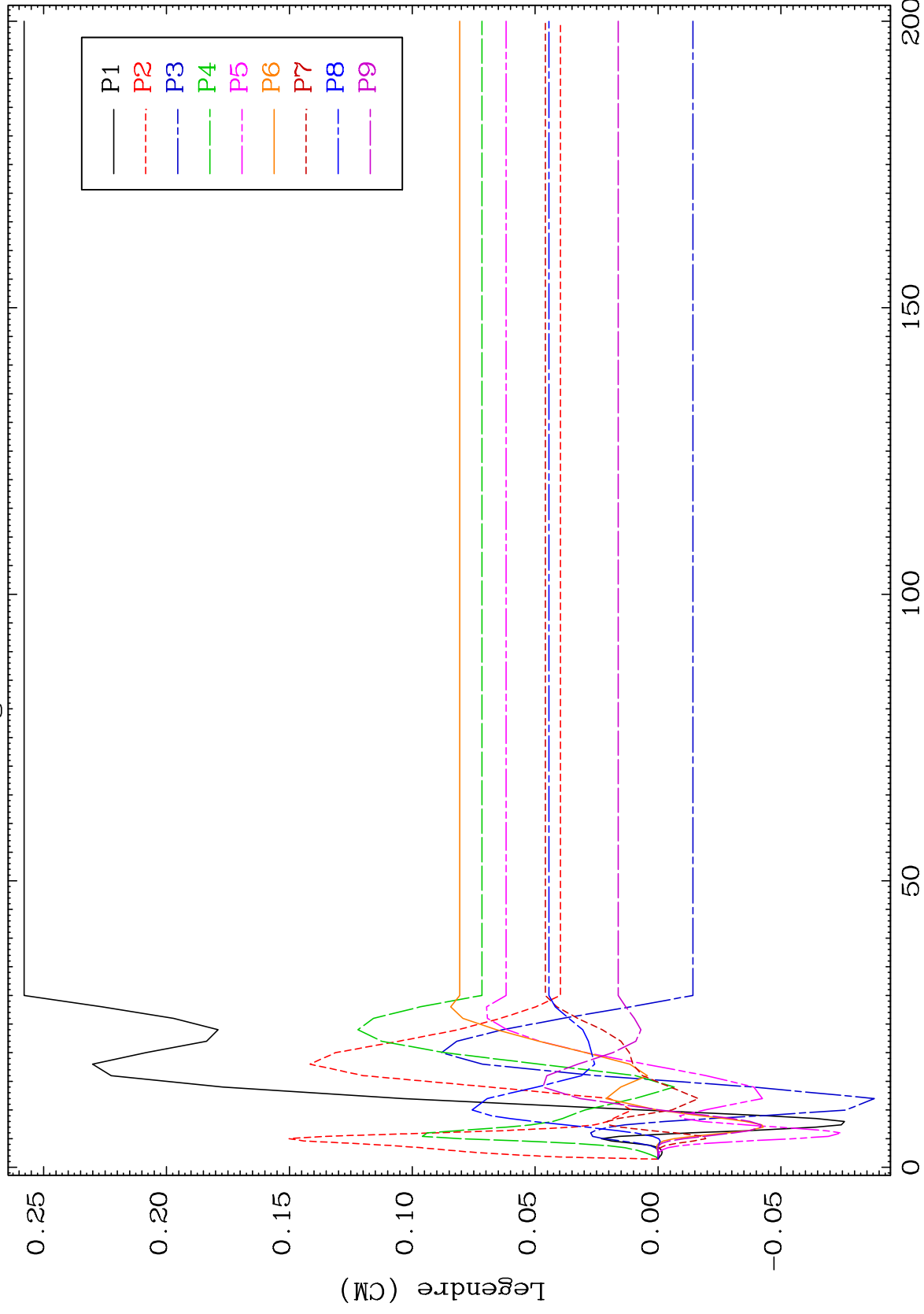




MAT 6431

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

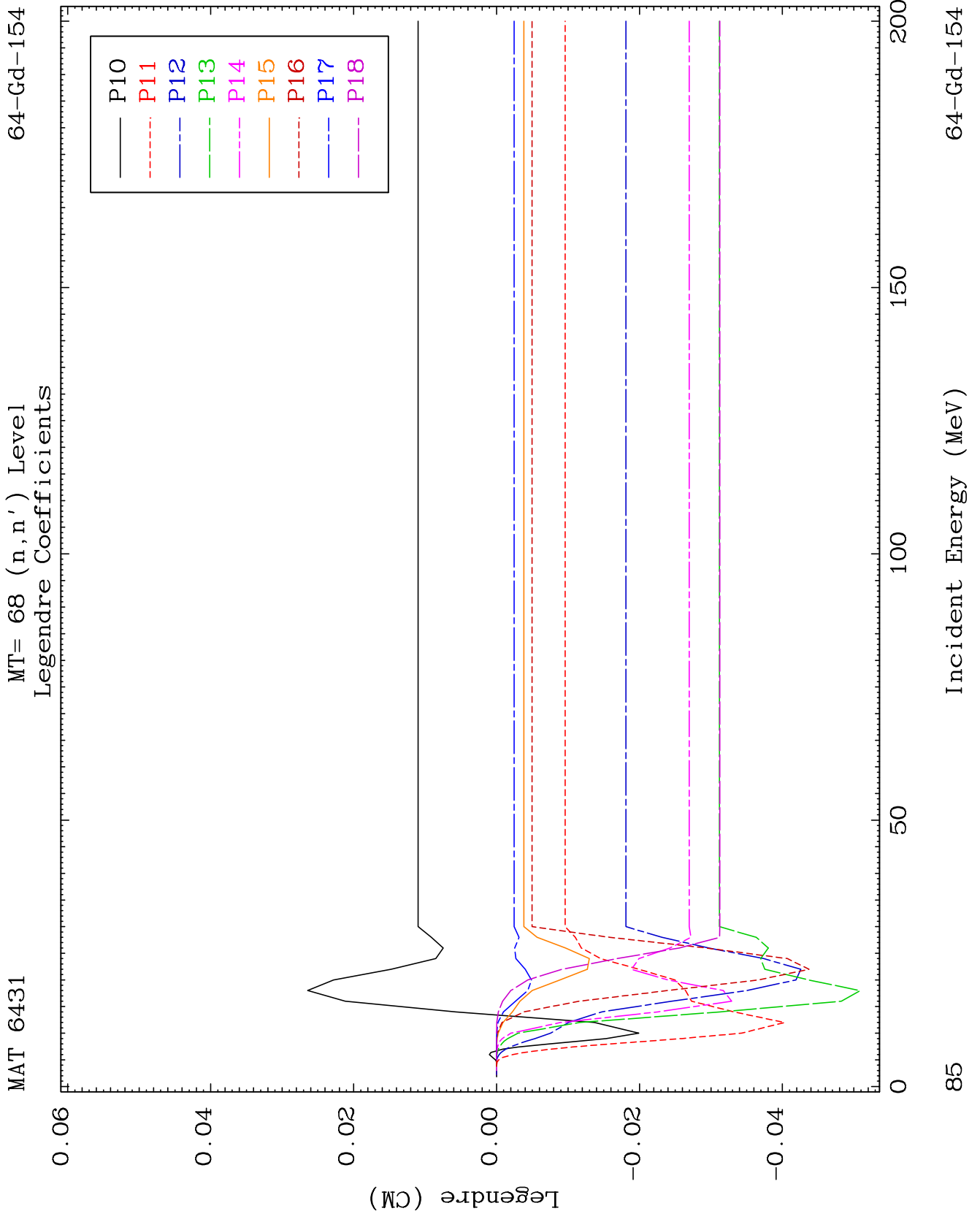
64-Gd-154

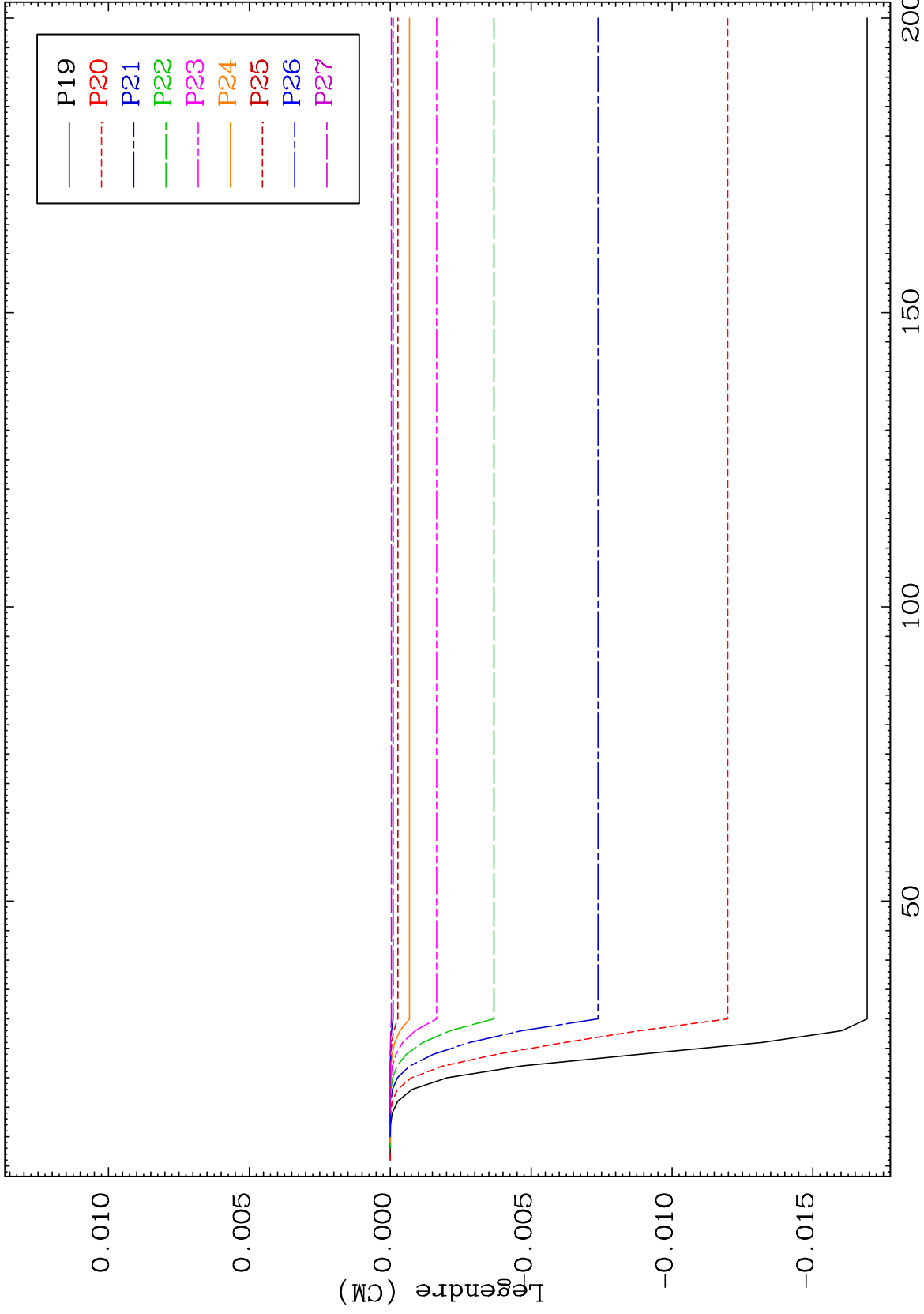


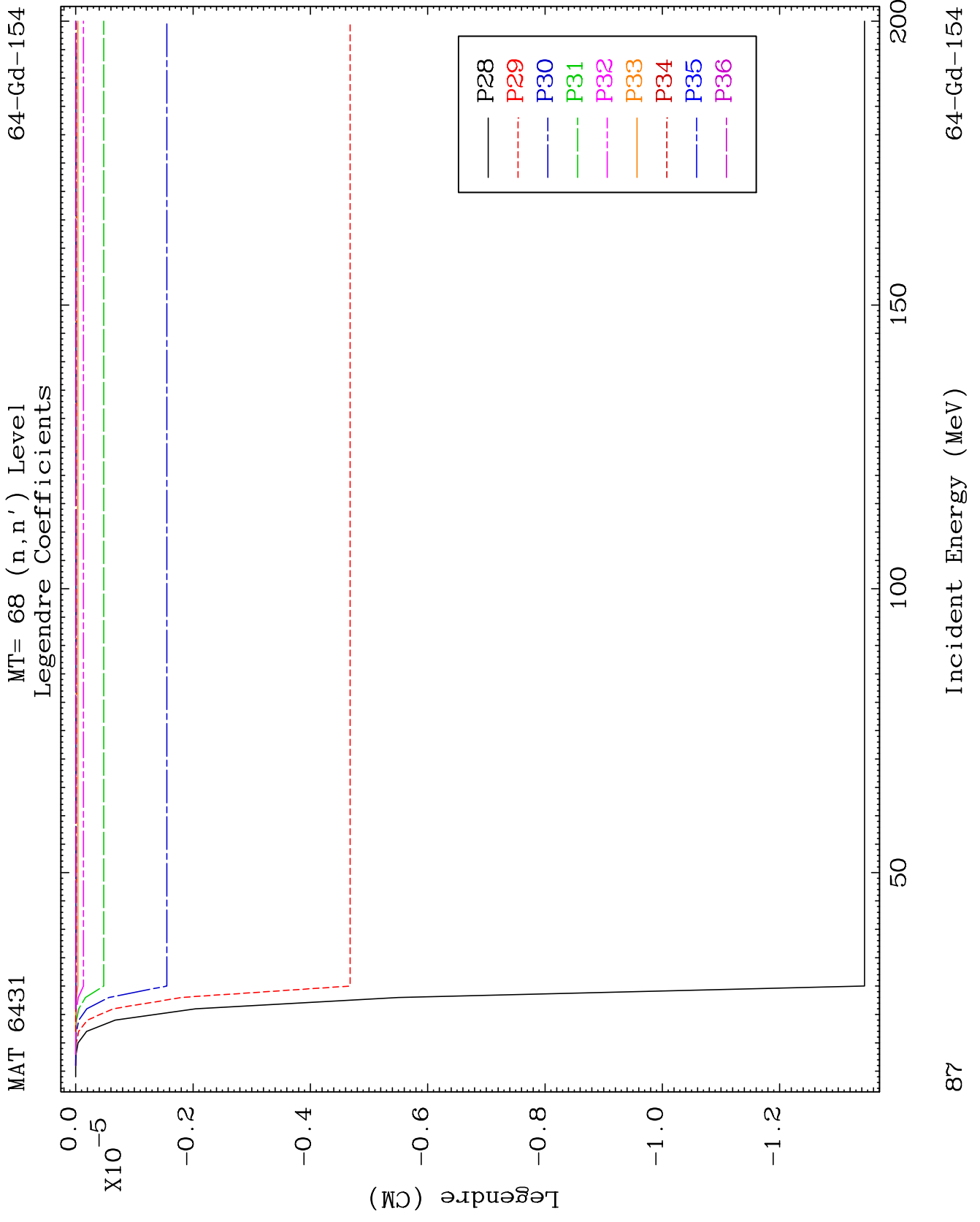
84

Incident Energy (MeV)

64-Gd-154





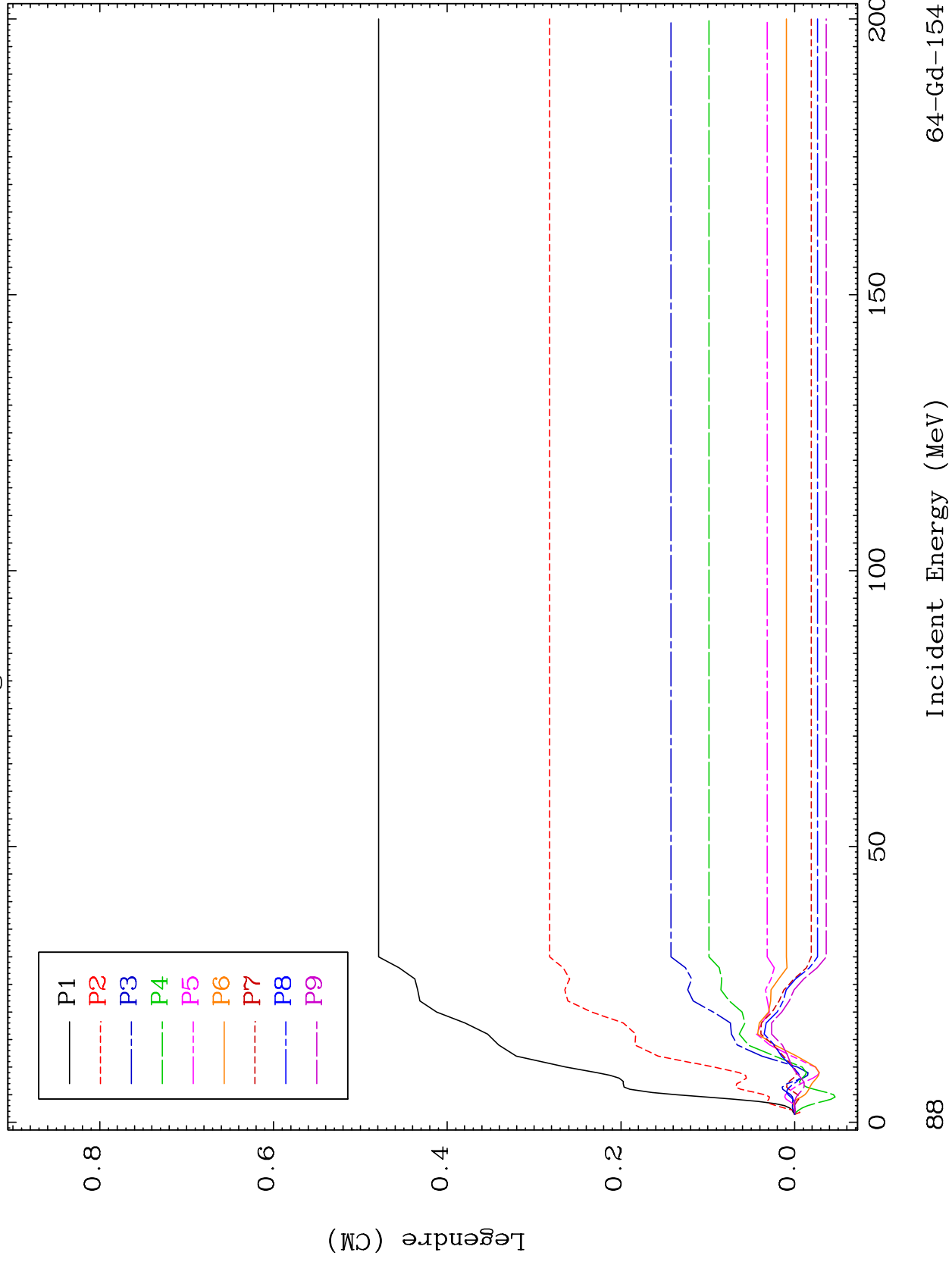




MAT 6431

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

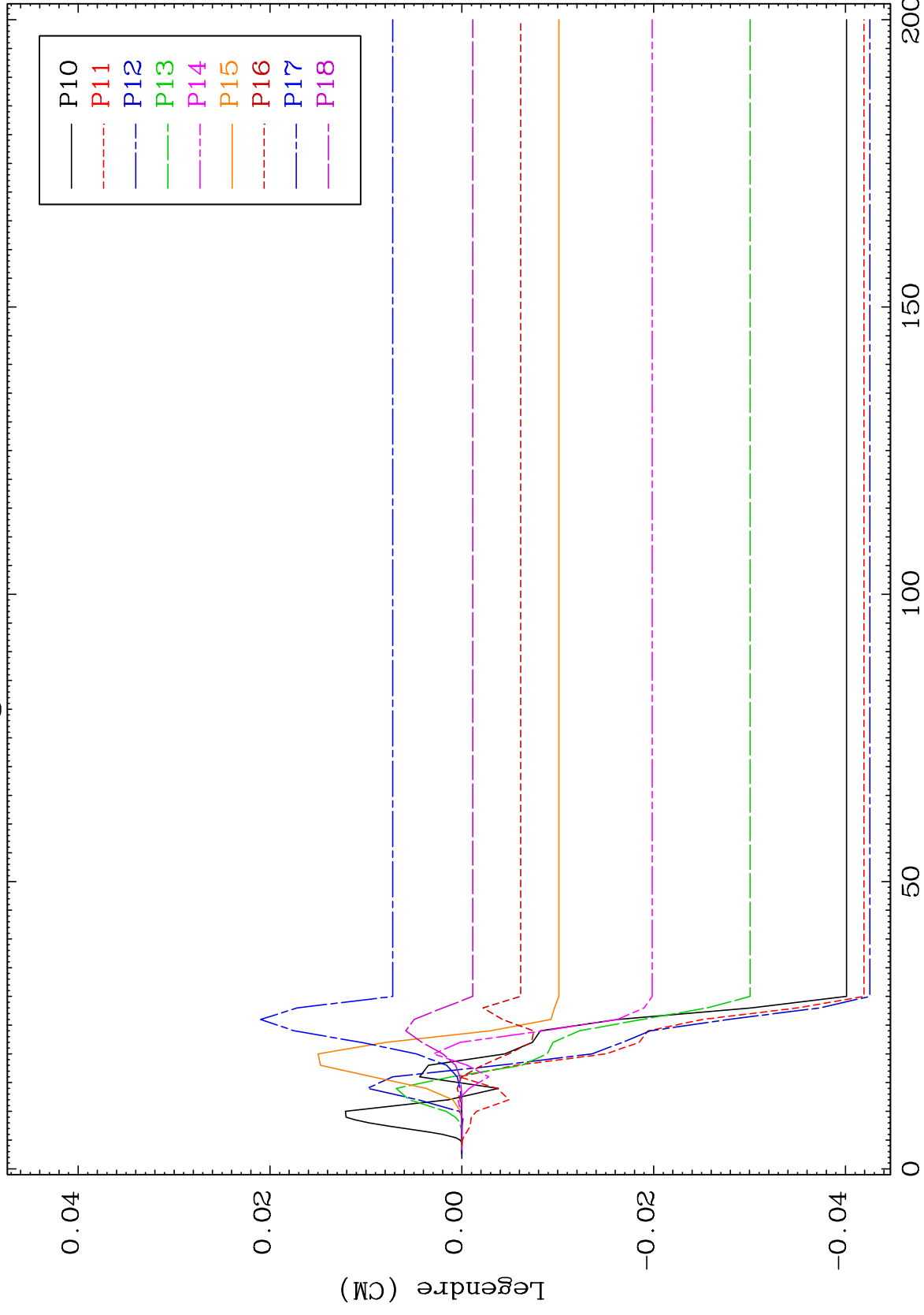
64-Gd-154



MAT 6431

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

64-Gd-154



89

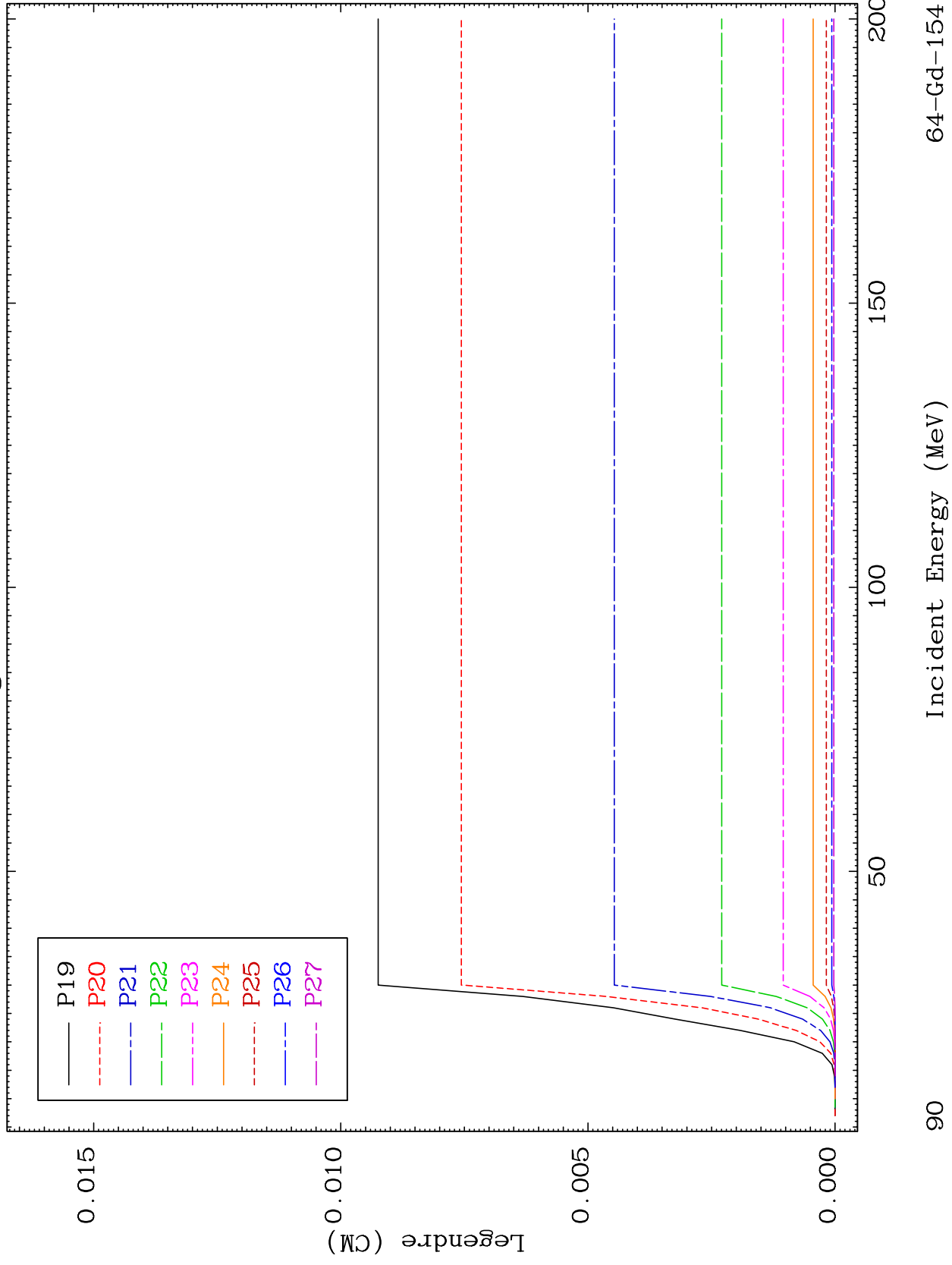
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154



90

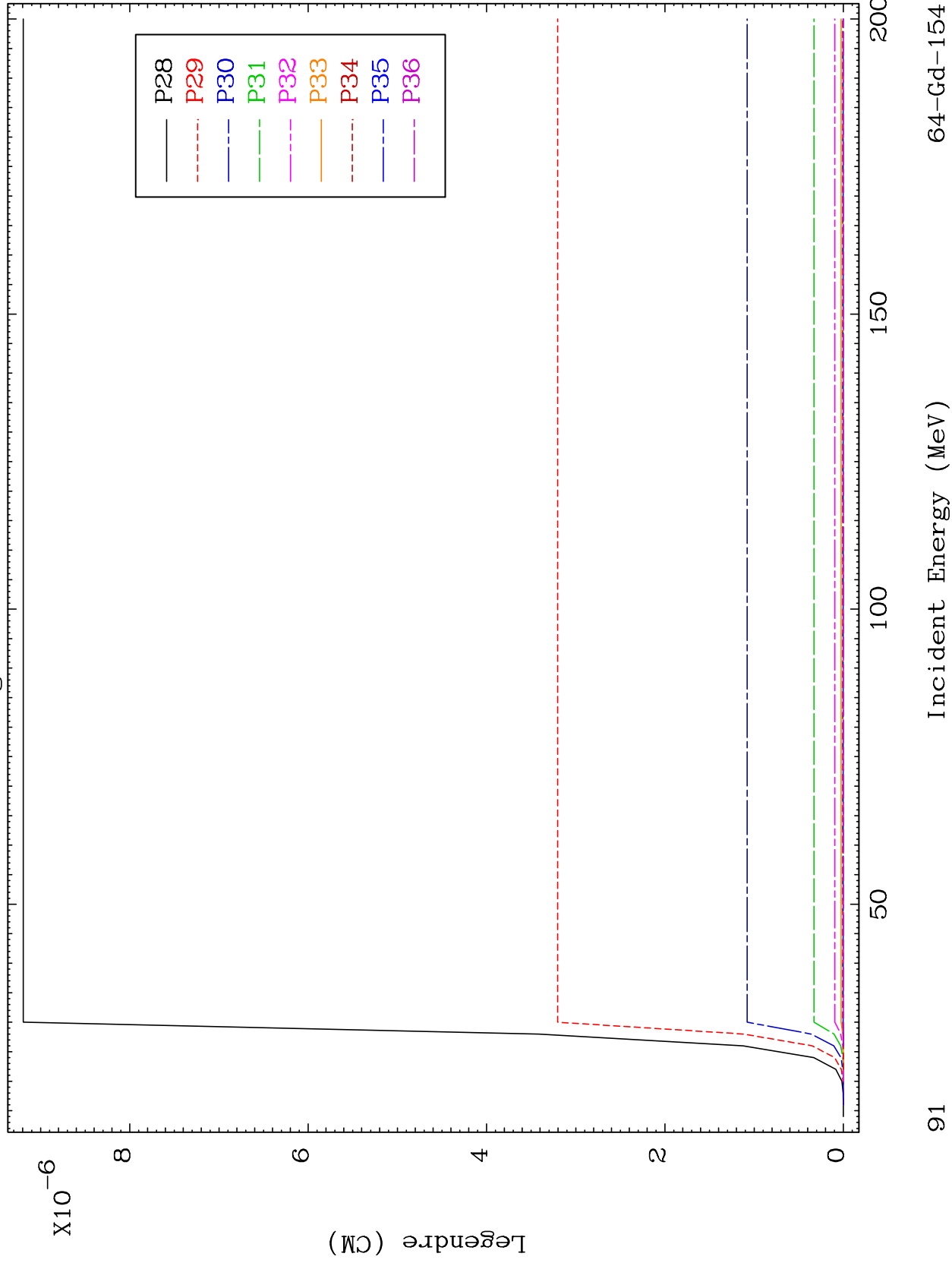
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

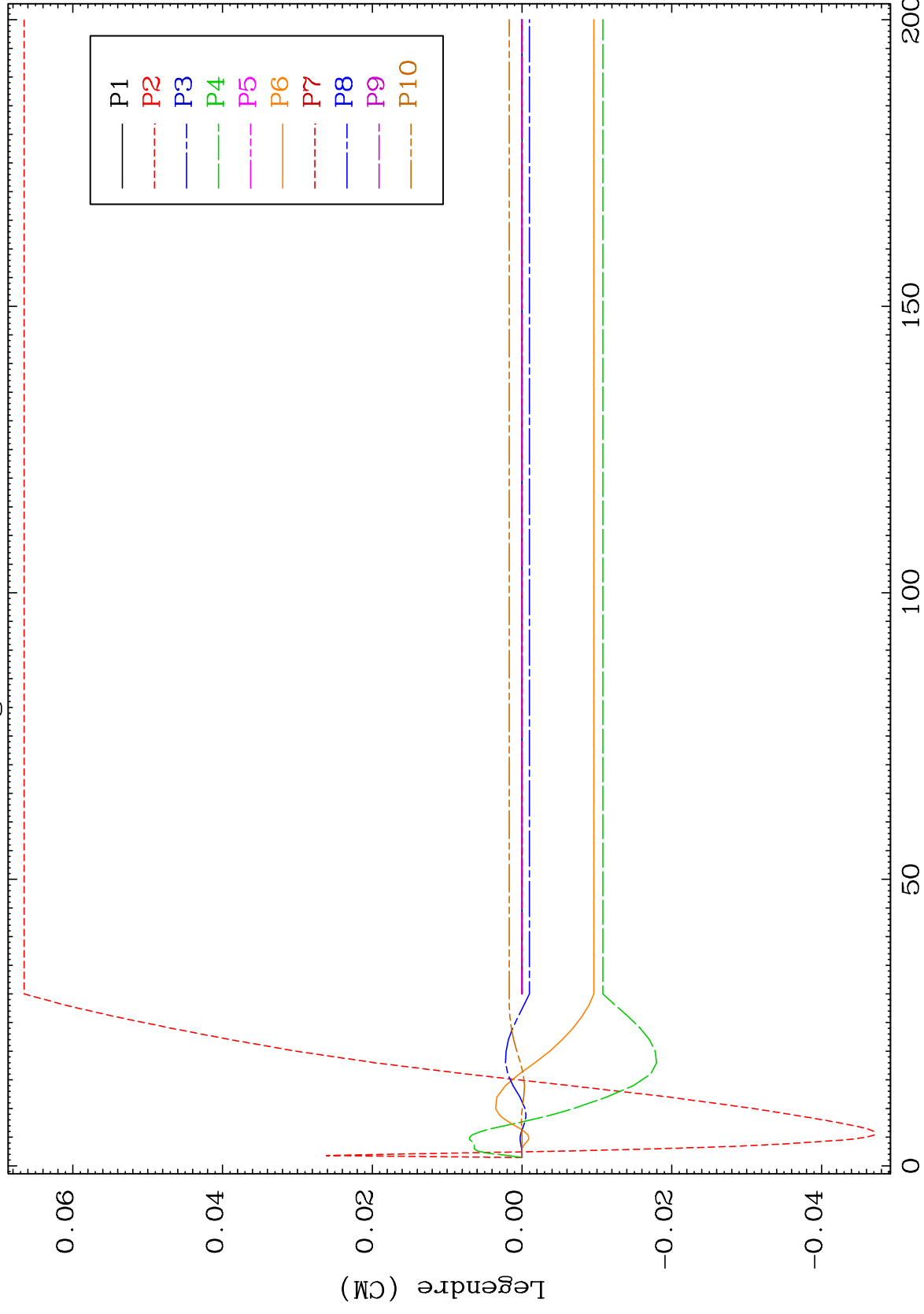
64-Gd-154



MAT 6431

MT= 70 (n,n') Level  
Legendre Coefficients

64-Gd-154



92

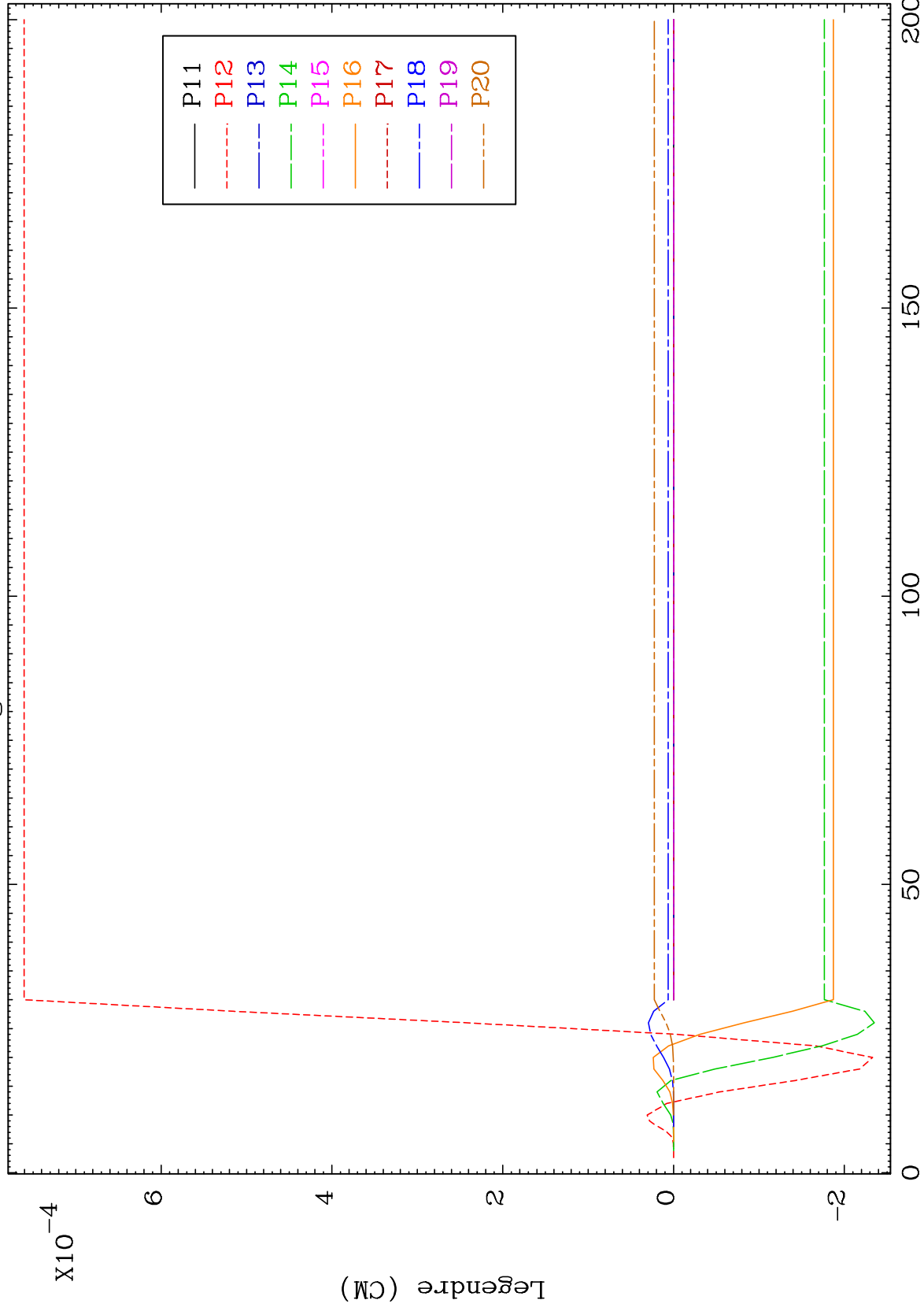
Incident Energy (MeV)

64-Gd-154

MAT 6431

MT= 70 (n,n') Level  
Legendre Coefficients

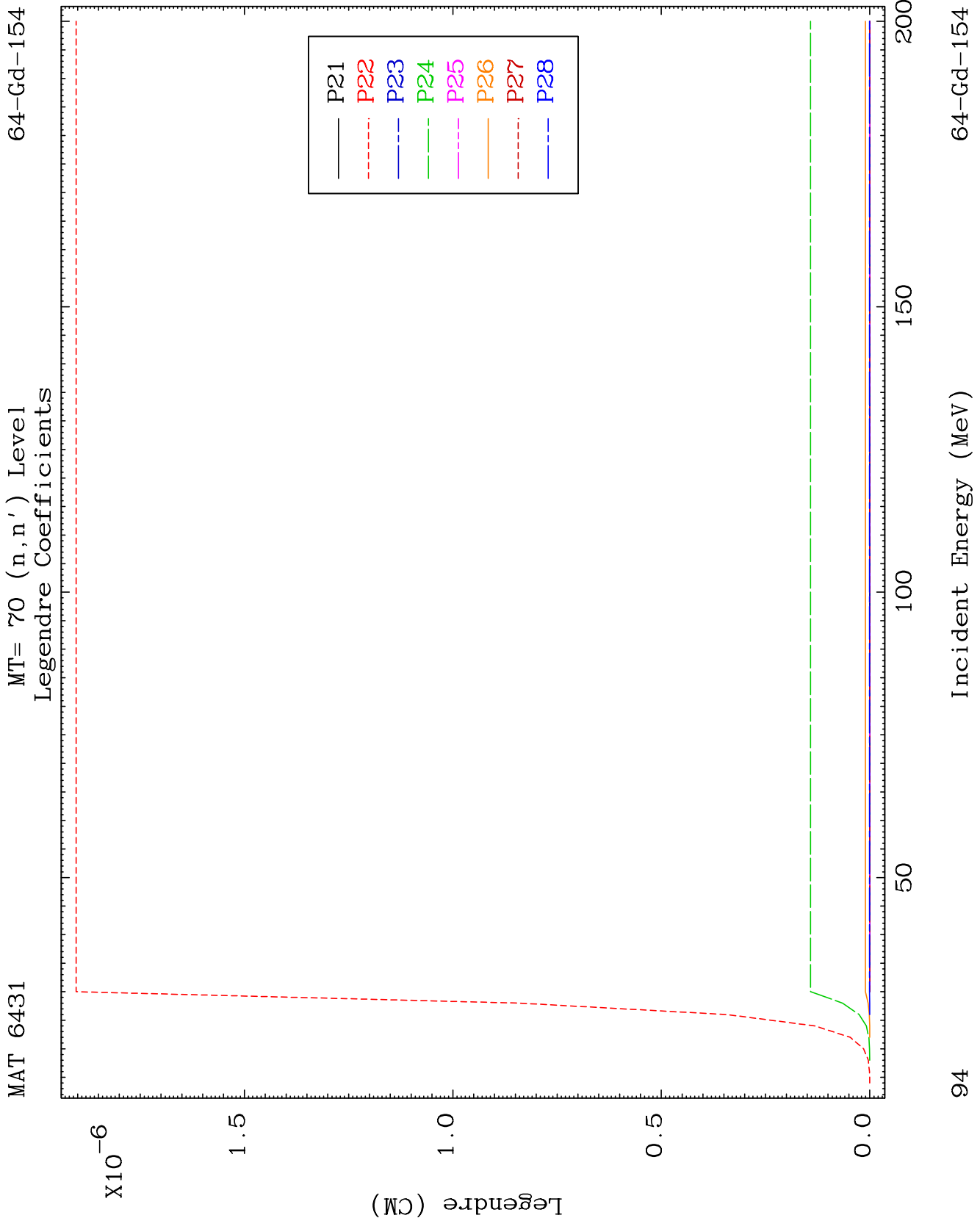
64-Gd-154

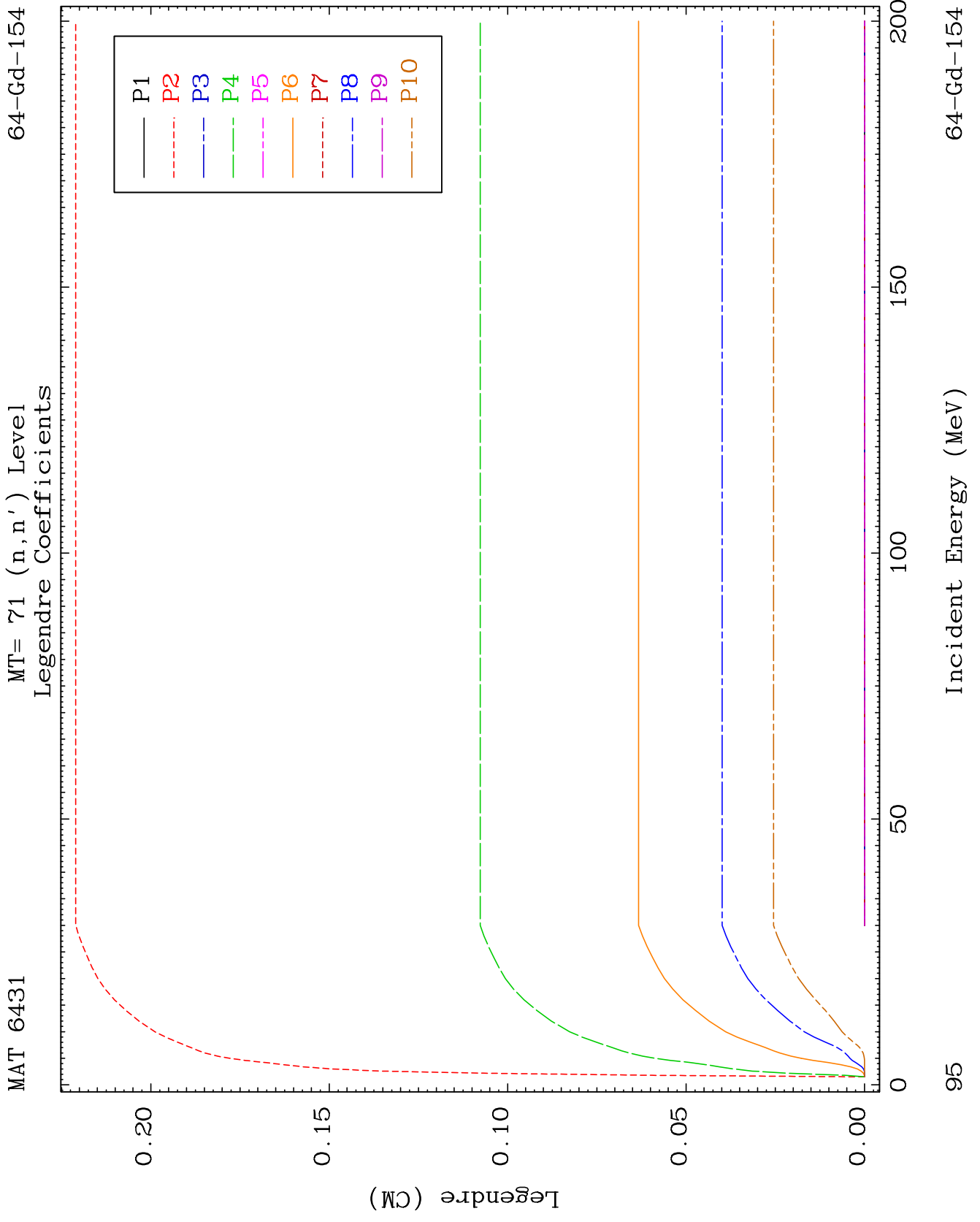


93

Incident Energy (MeV)

64-Gd-154



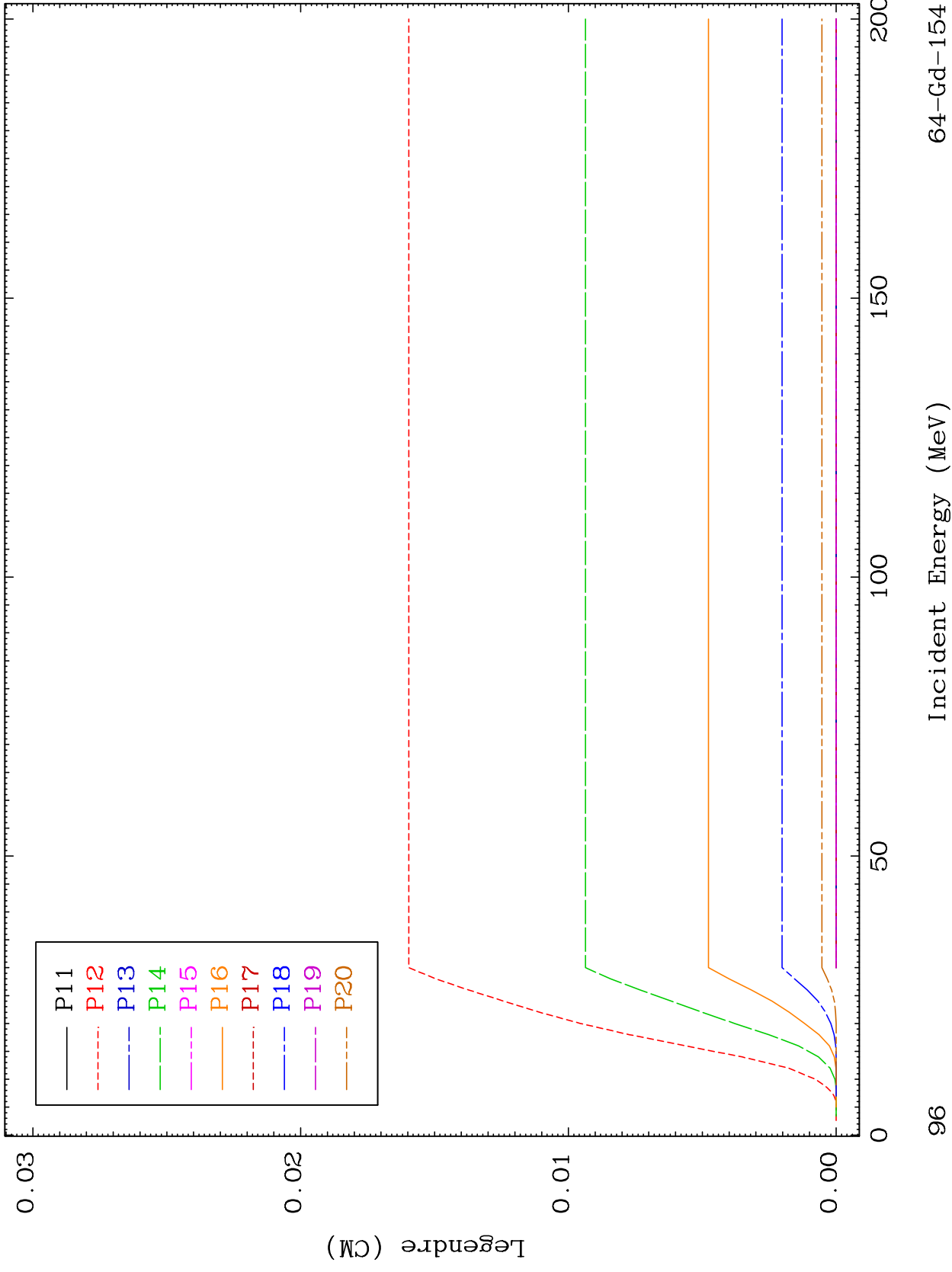




MAT 6431

MT= 71 (n,n') Level  
Legendre Coefficients

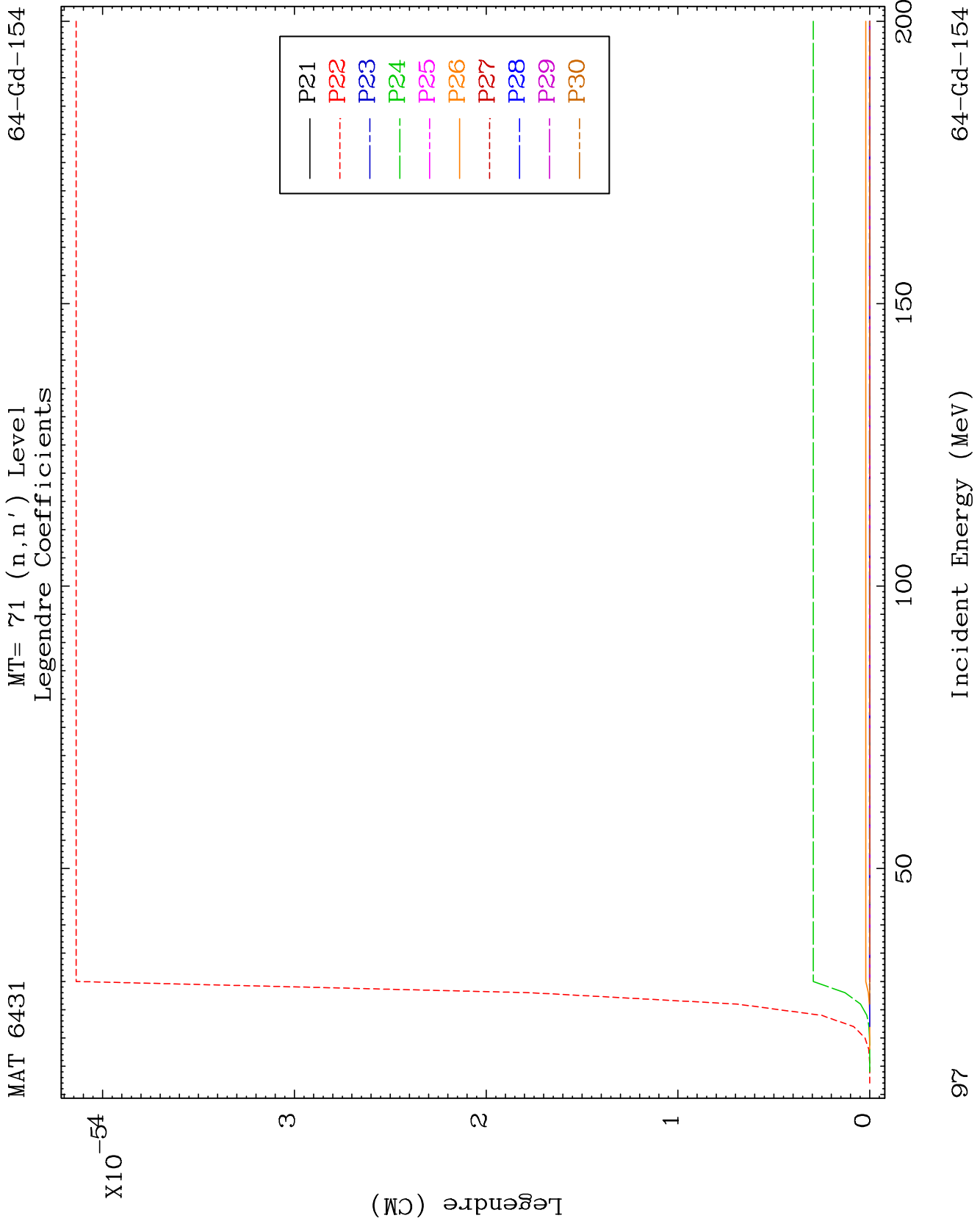
64-Gd-154



96

Incident Energy (MeV)

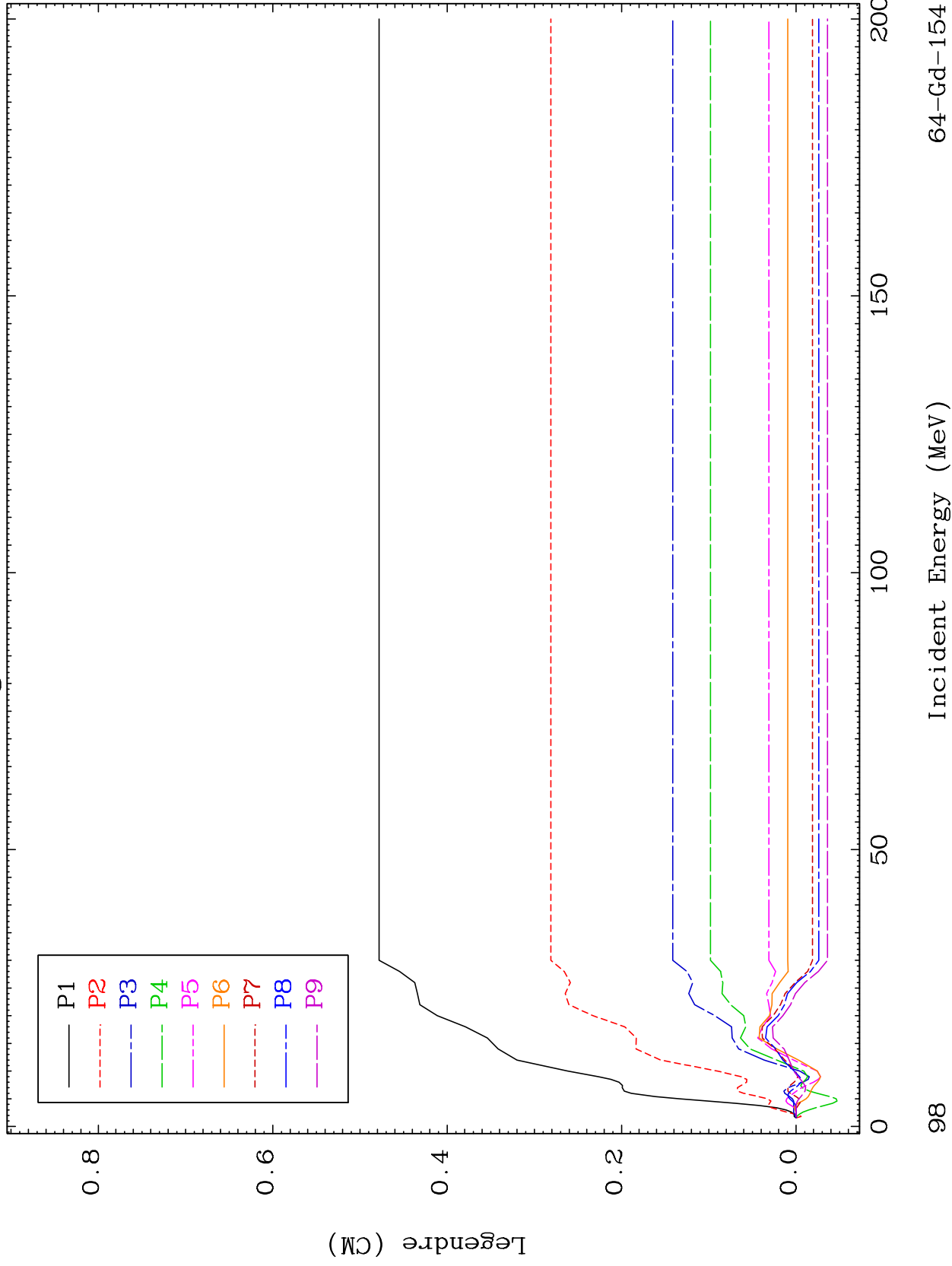
64-Gd-154



MAT 6431

MT= 72 (n,n') Level  
Legendre Coefficients

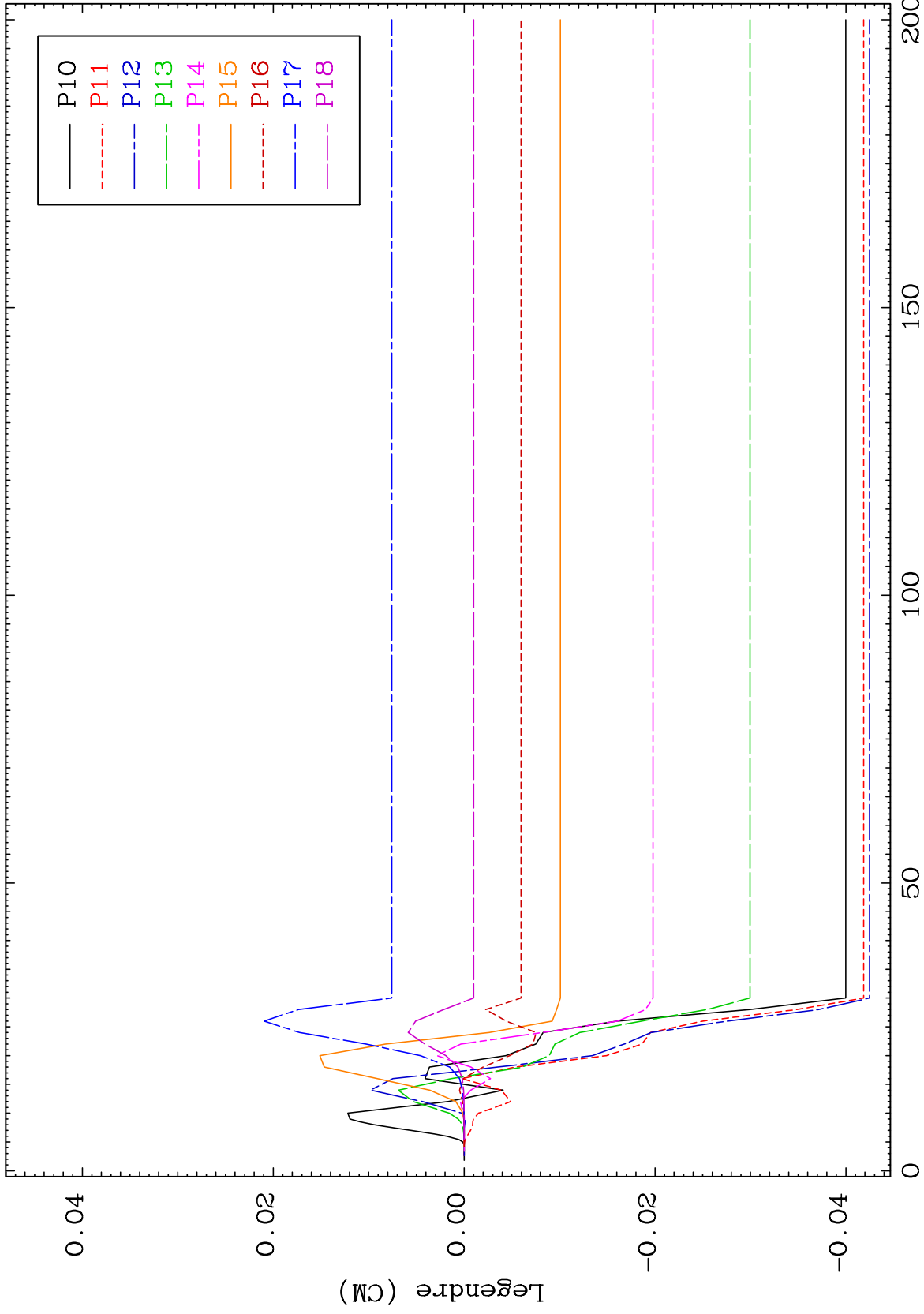
64-Gd-154



MAT 6431

MT= 72 (n,n') Level  
Legendre Coefficients

64-Gd-154



99

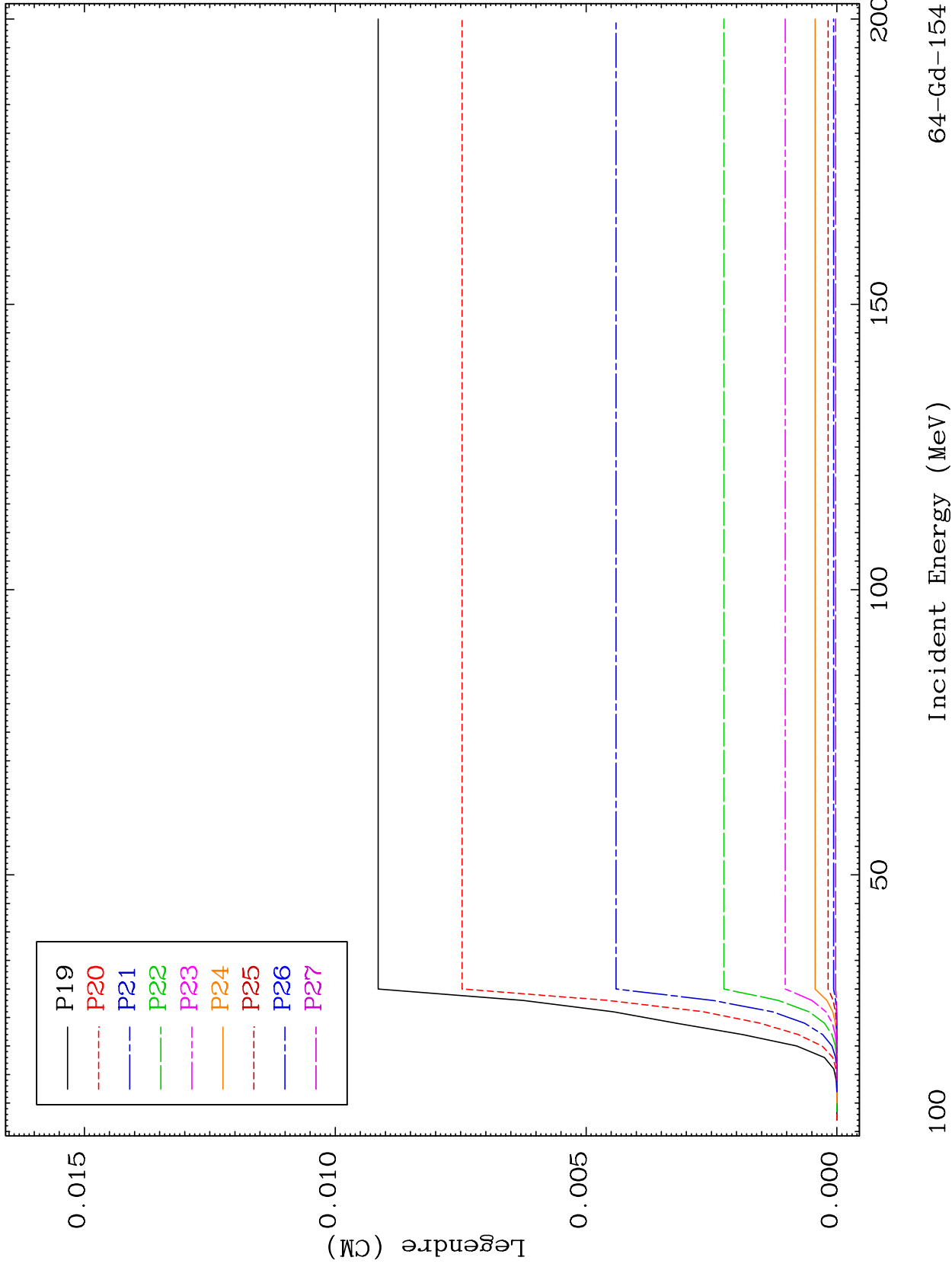
Incident Energy (MeV)

64-Gd-154

MAT 6431

MT= 72 (n,n') Level  
Legendre Coefficients

64-Gd-154



64-Gd-154

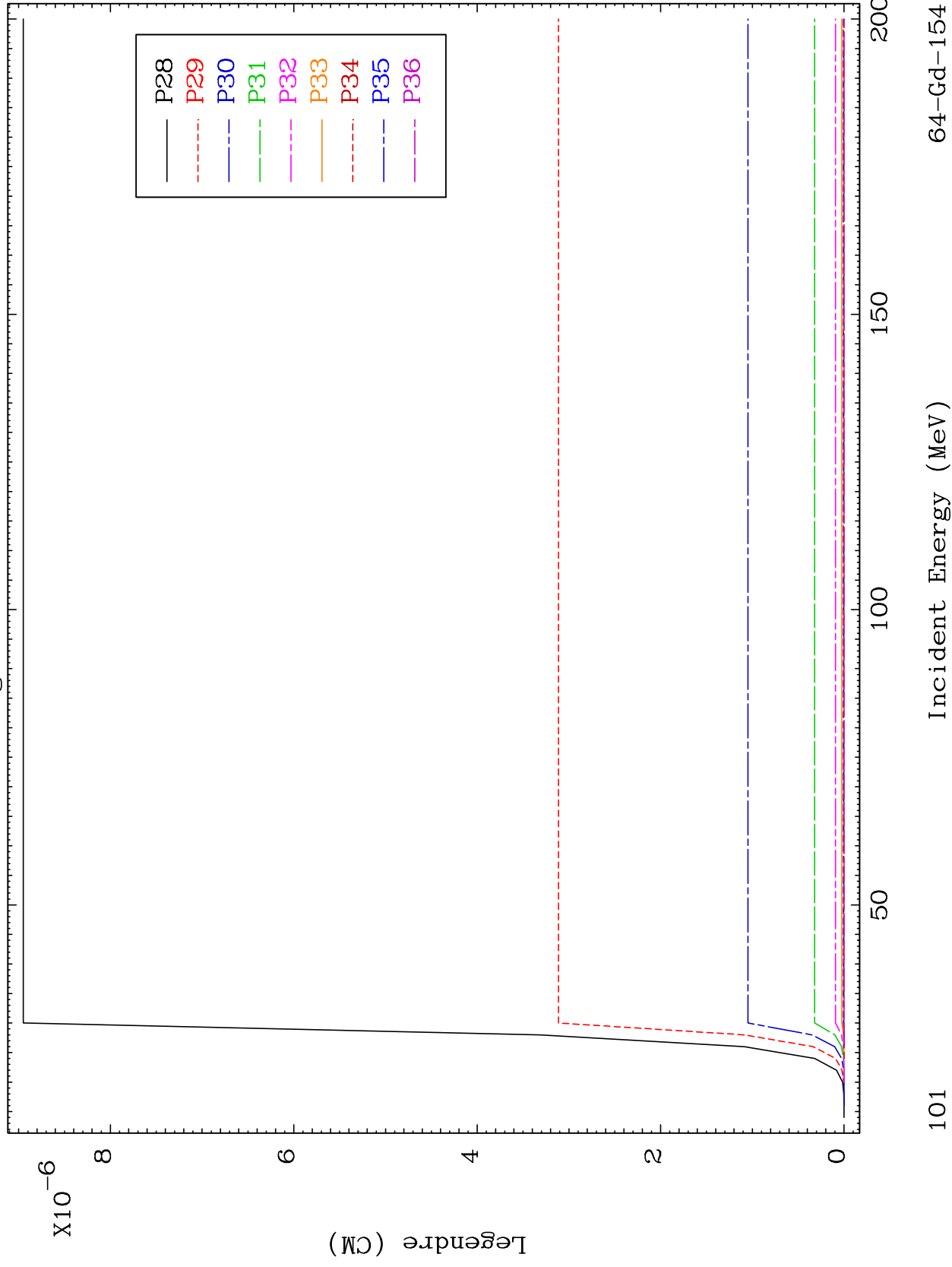
Incident Energy (MeV)

100

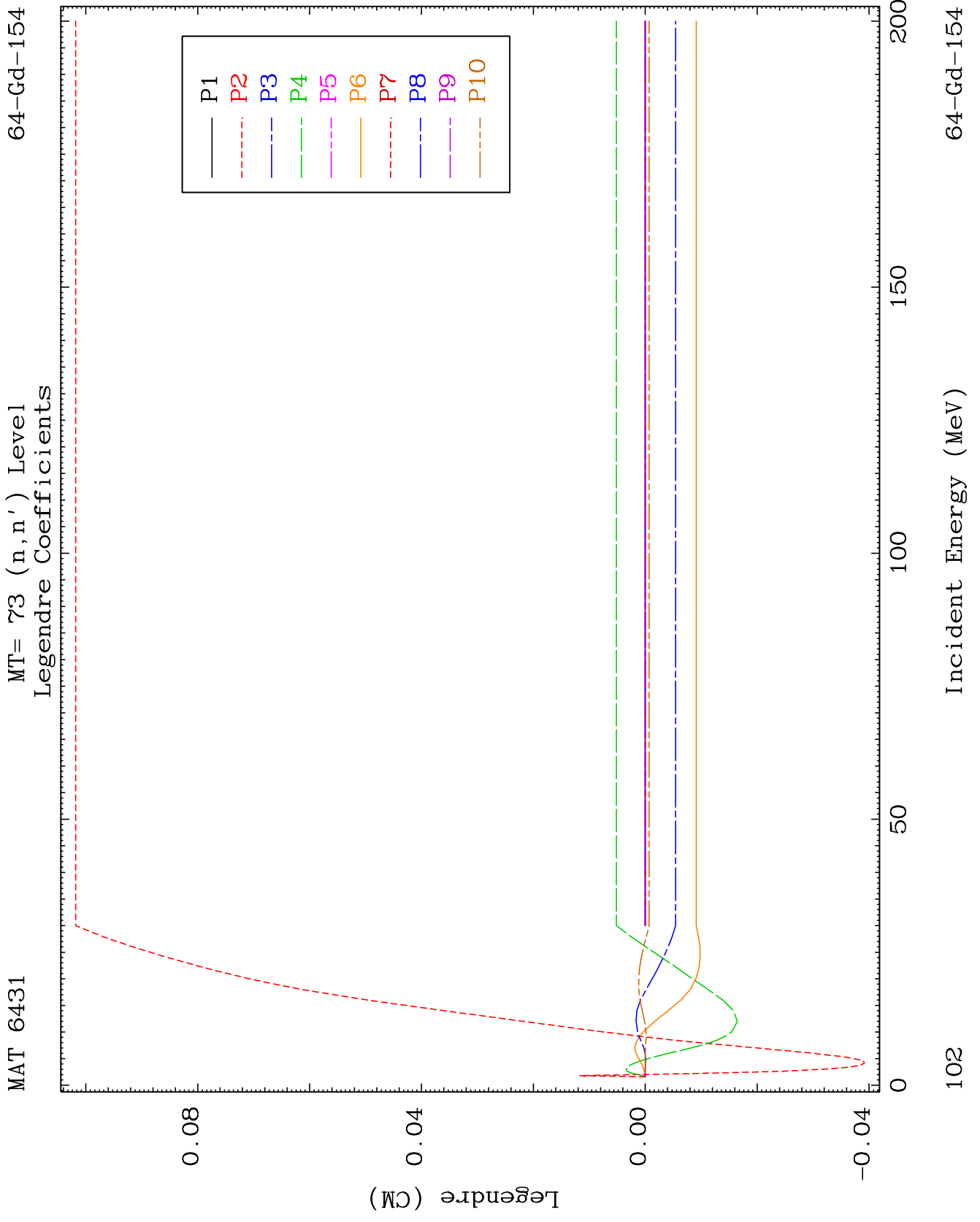
MAT 6431

MT= 72 (n,n') Level  
Legendre Coefficients

64-Gd-154



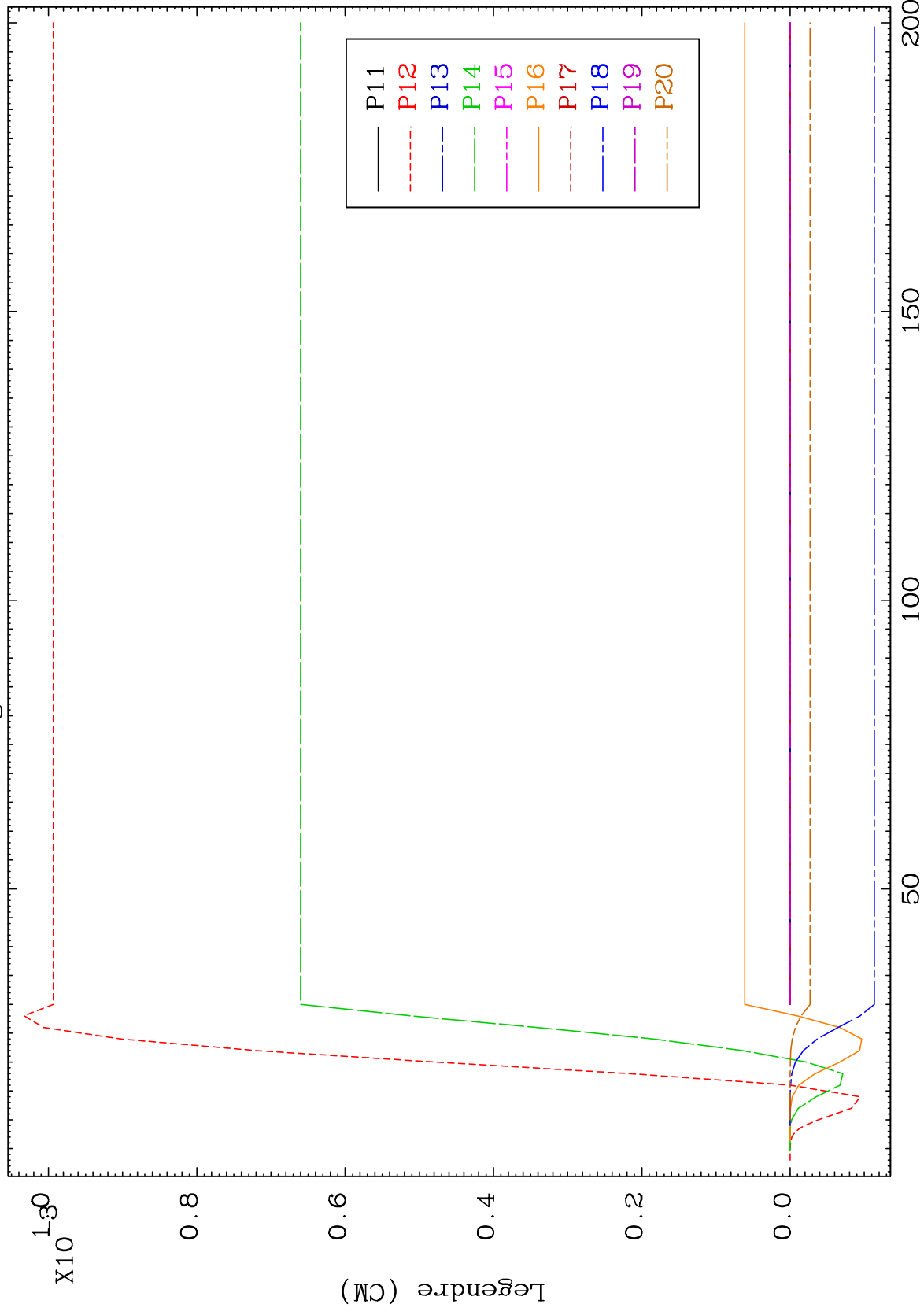
101



MAT 6431

MT= 73 (n,n') Level  
Legendre Coefficients

64-Gd-154

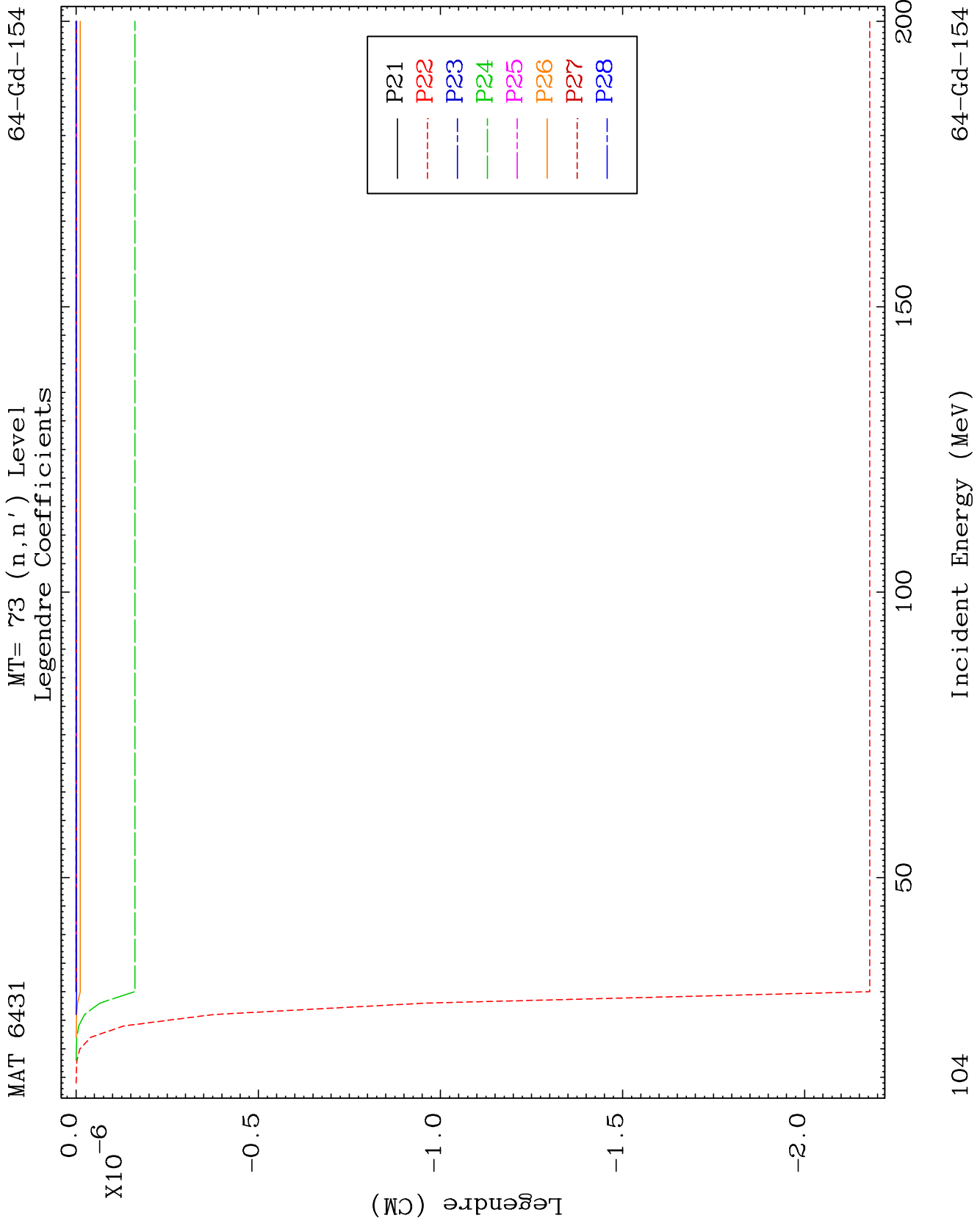


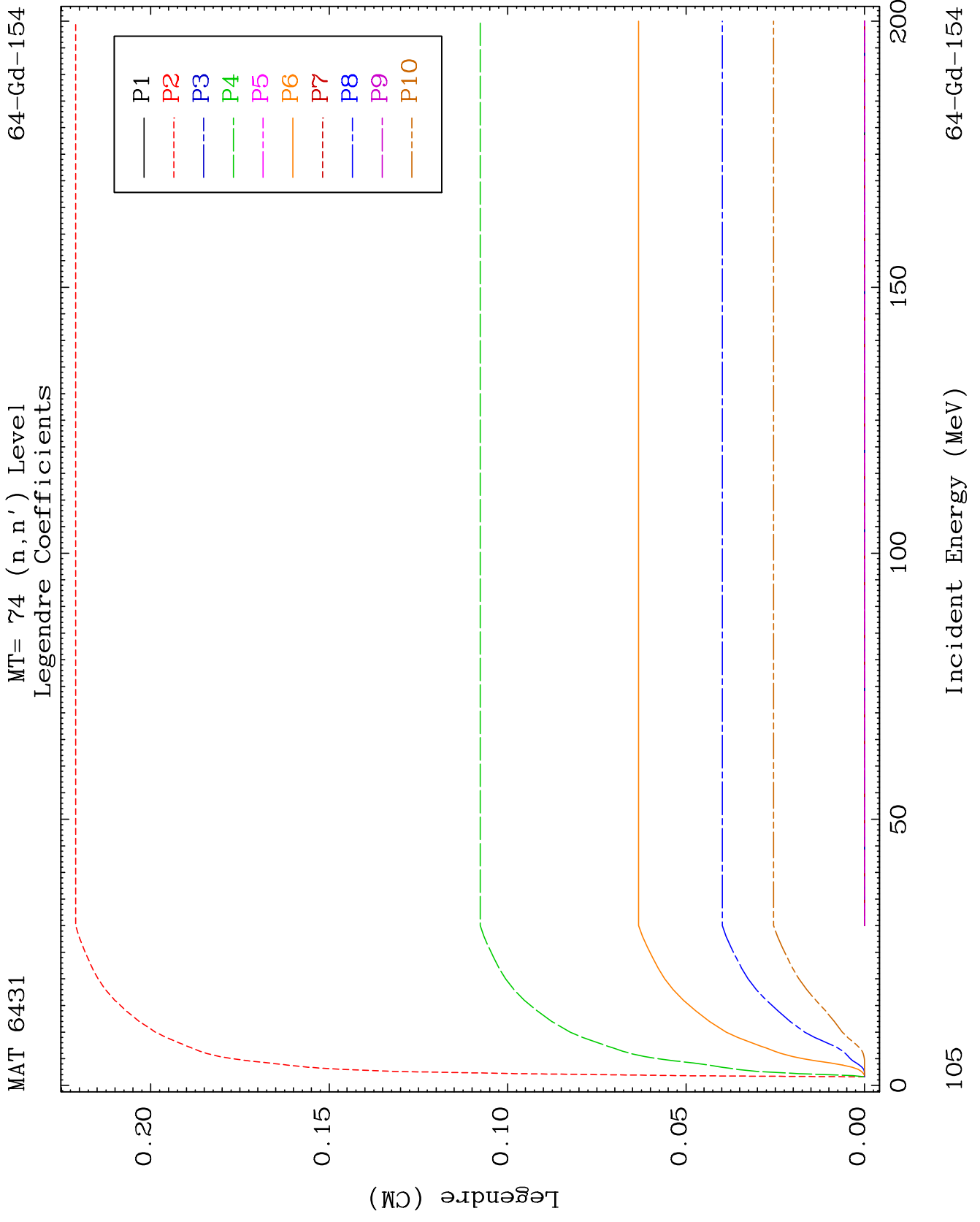
103

Incident Energy (MeV)

64-Gd-154



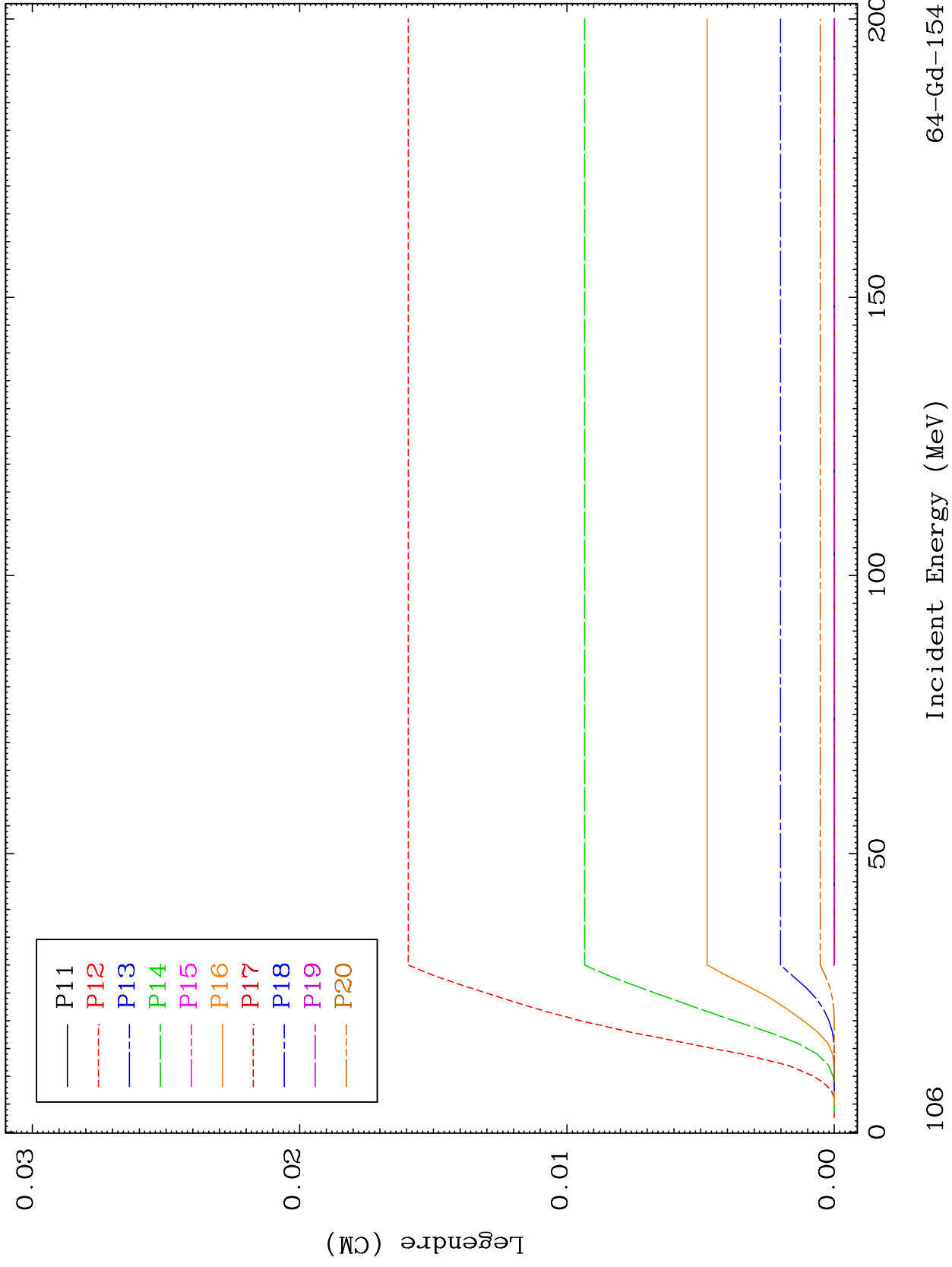




MAT 6431

MT= 74 (n,n') Level  
Legendre Coefficients

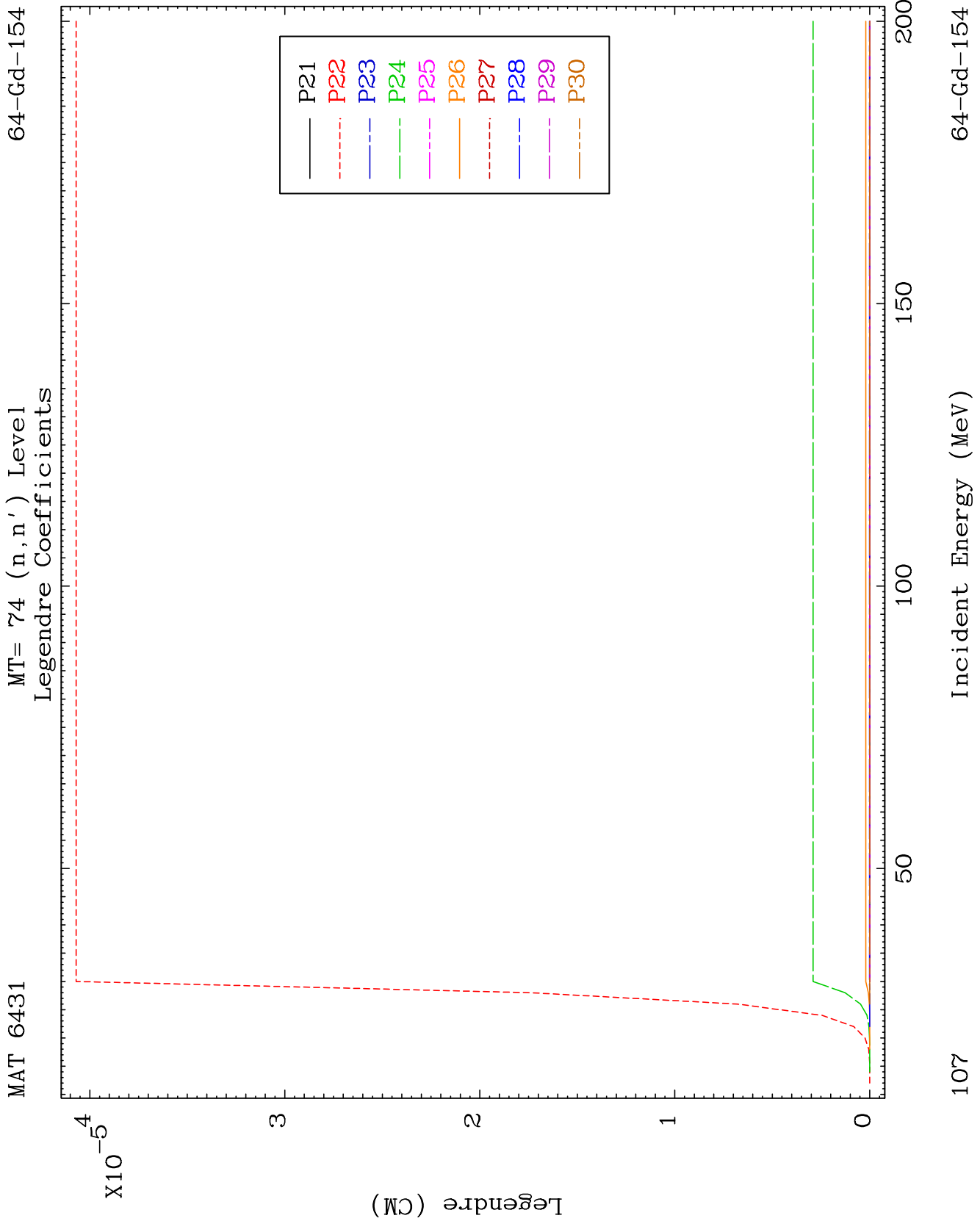
64-Gd-154



64-Gd-154

Incident Energy (MeV)

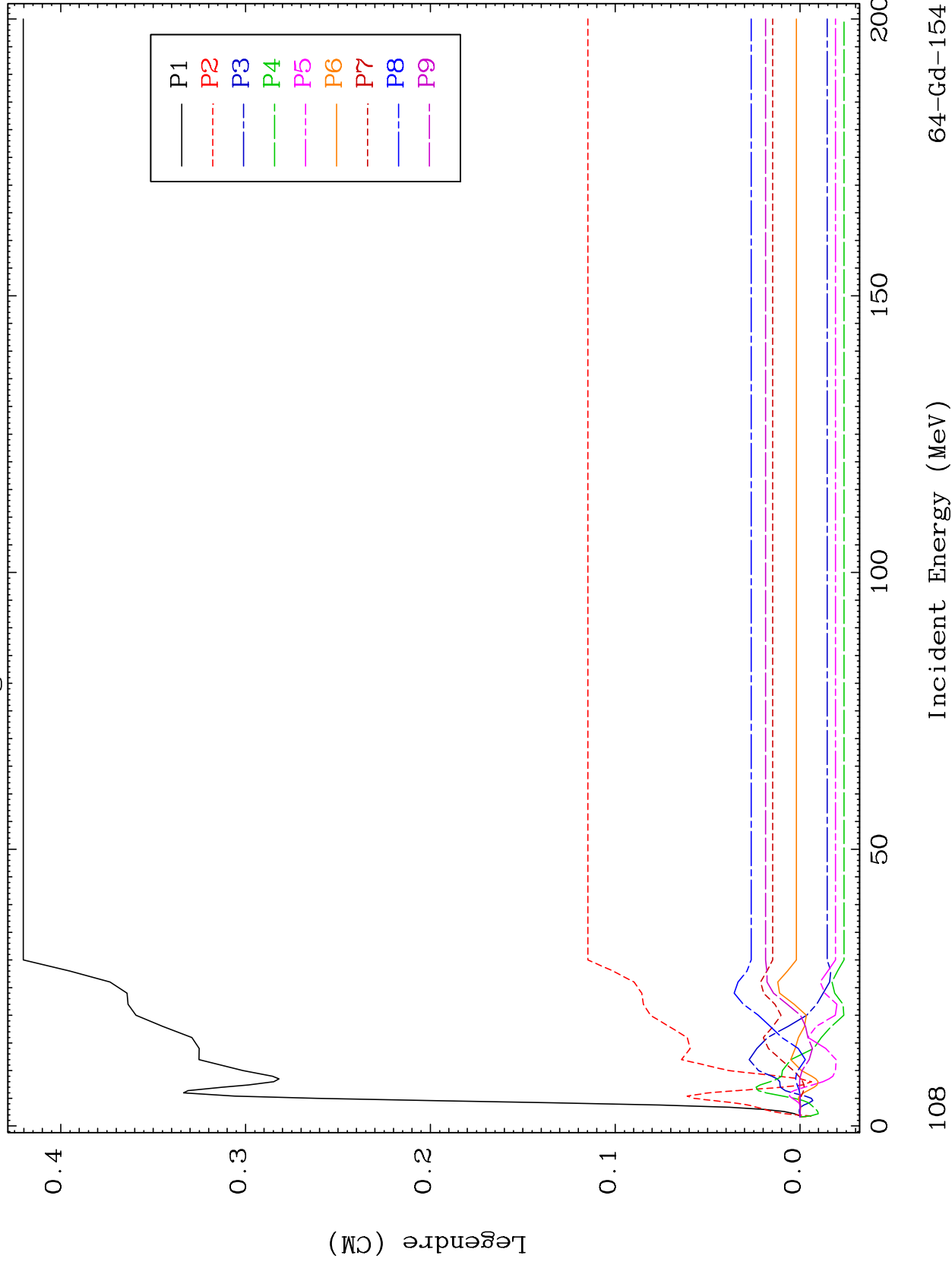
106



MAT 6431

MT= 75 (n,n') Level  
Legendre Coefficients

64-Gd-154



64-Gd-154

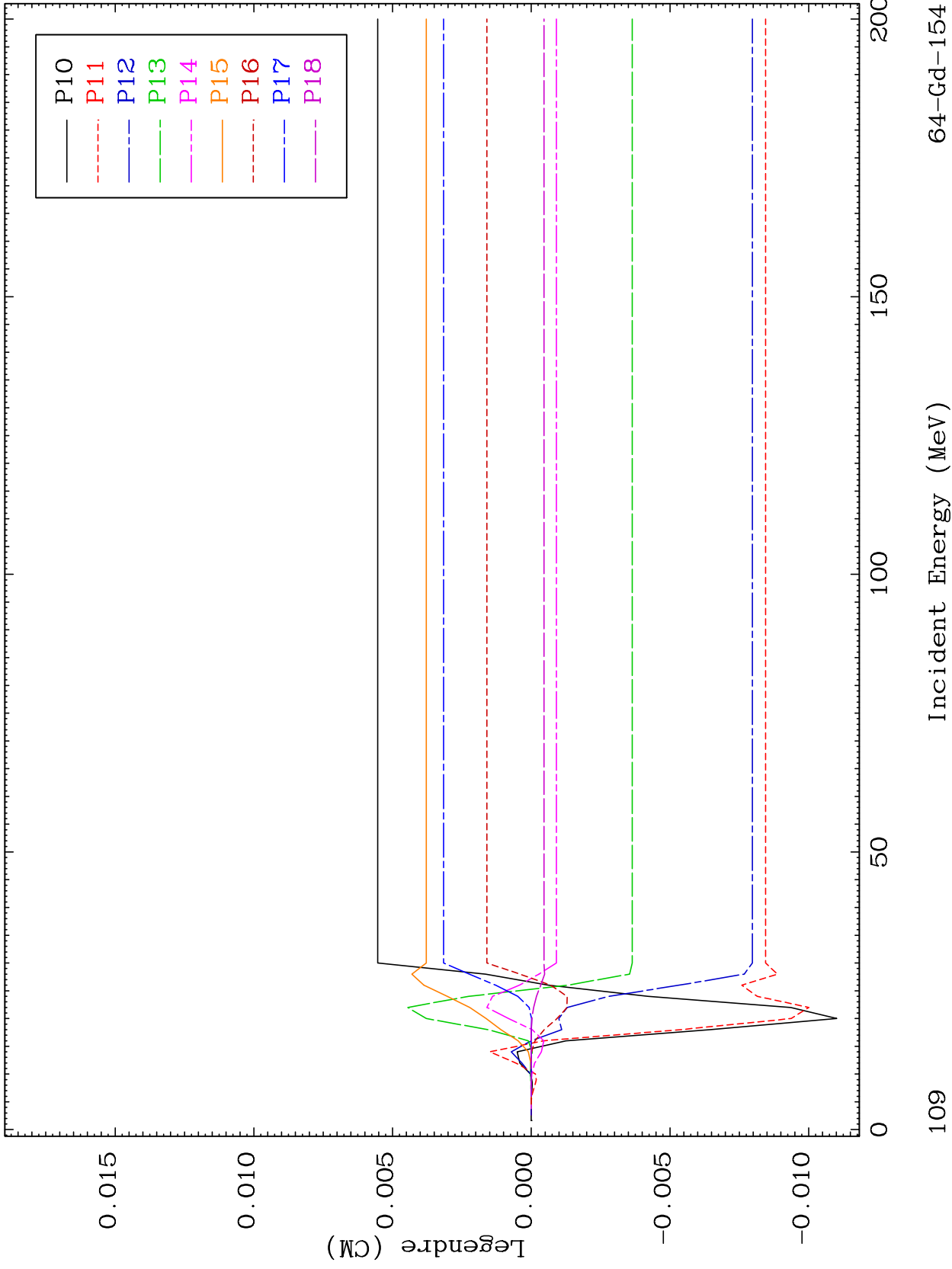
Incident Energy (MeV)

108

MAT 6431

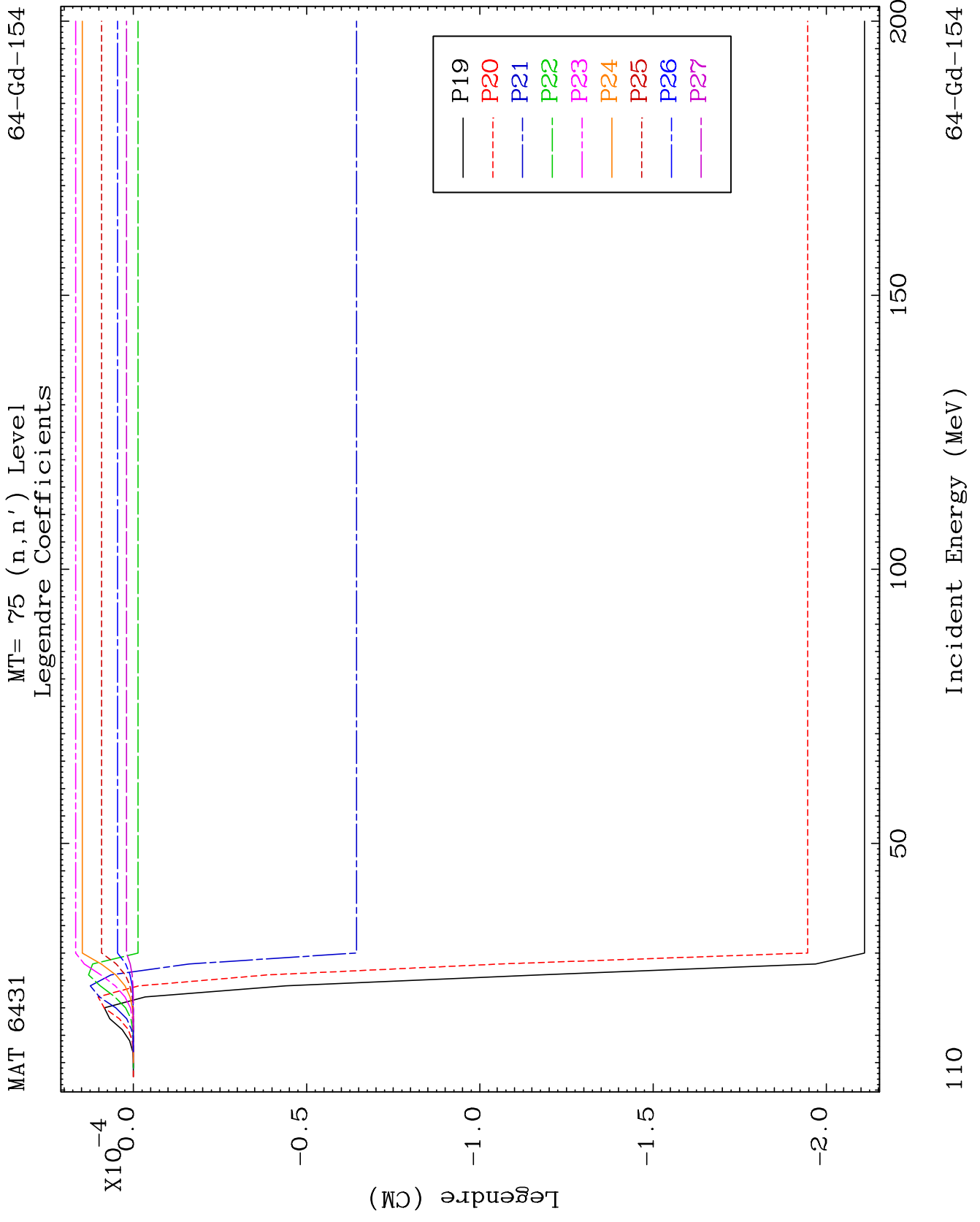
MT= 75 (n,n') Level  
Legendre Coefficients

64-Gd-154



109

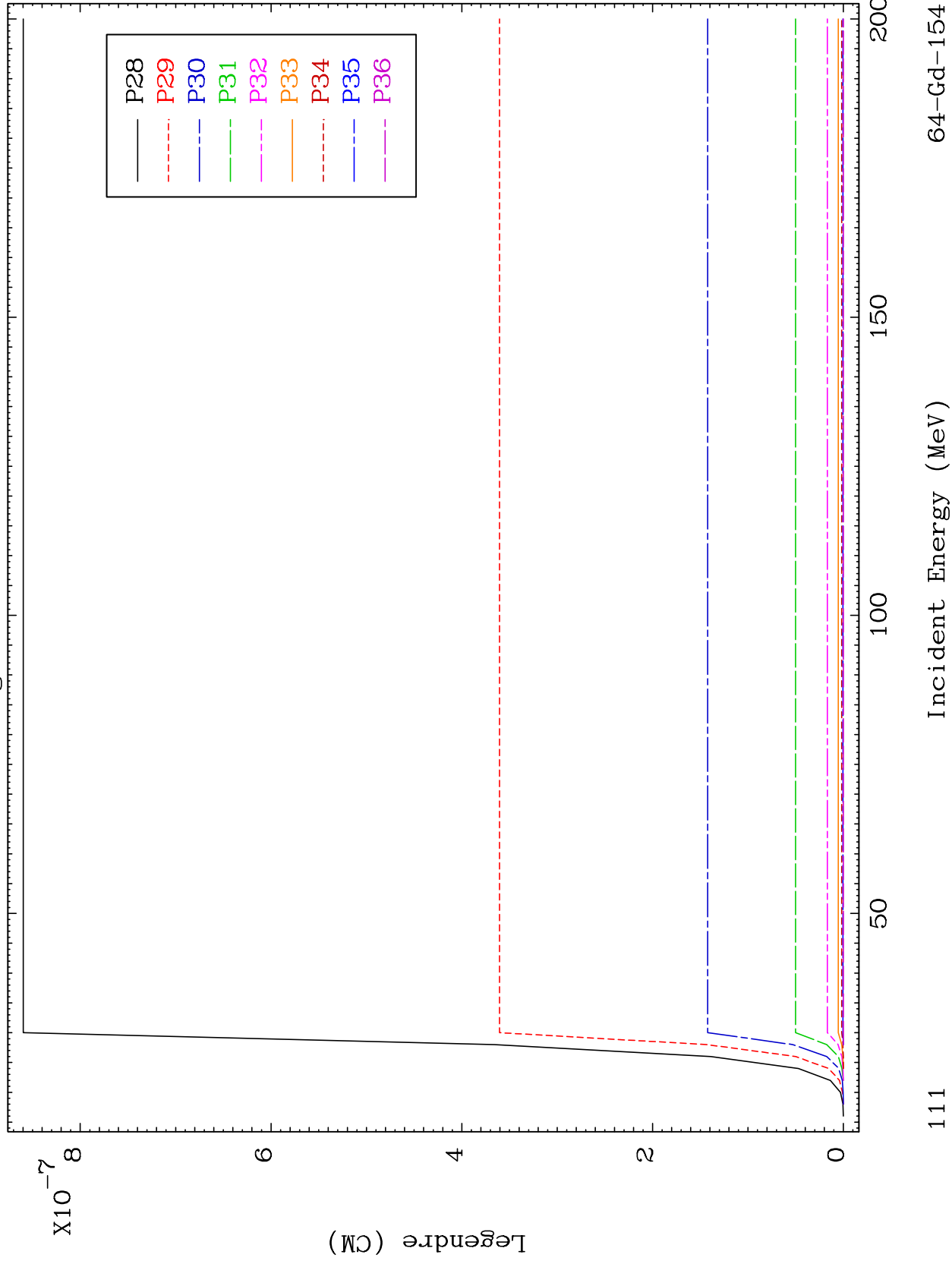
64-Gd-154



MAT 6431

MT= 75 (n,n') Level  
Legendre Coefficients

64-Gd-154

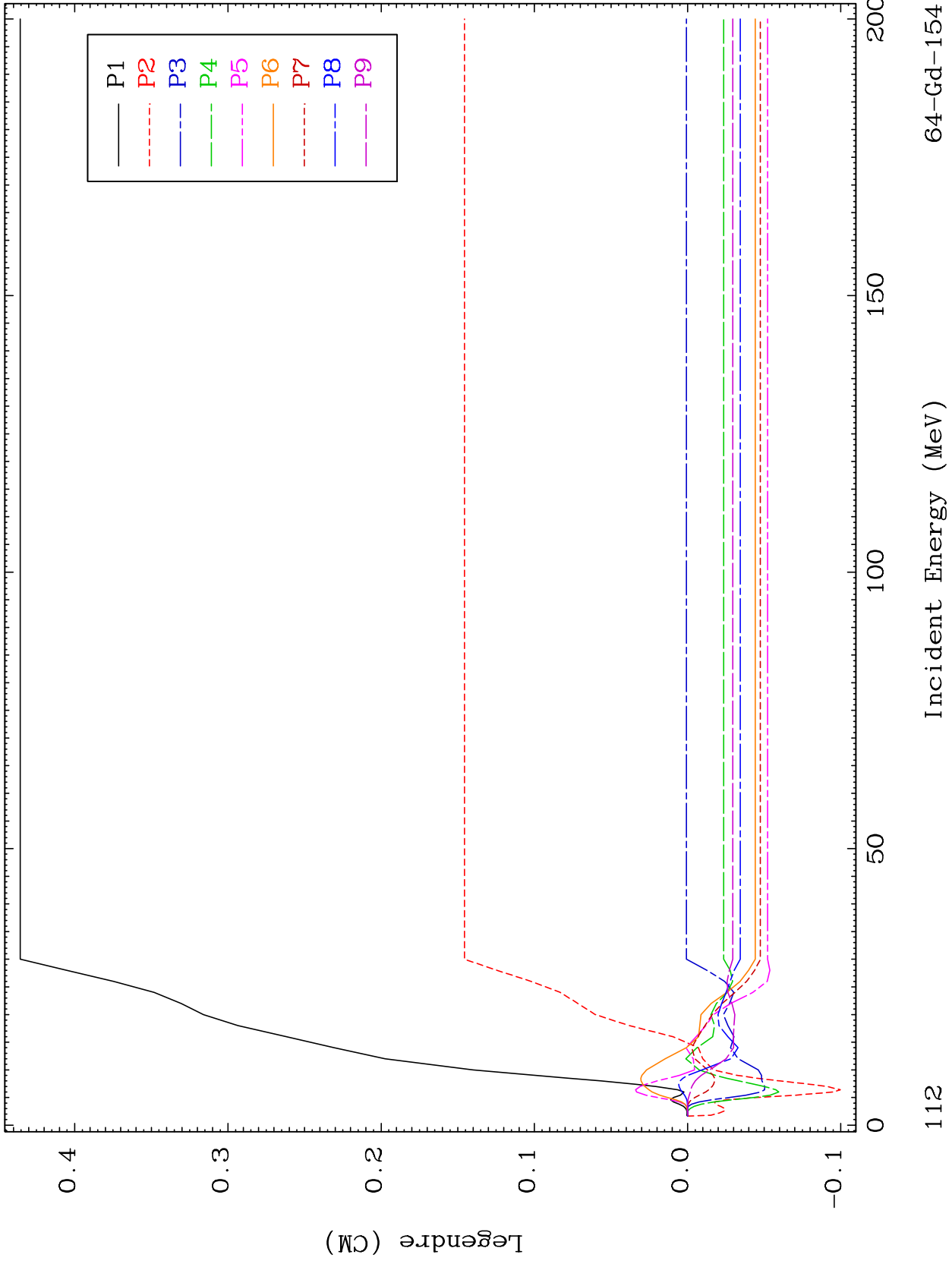




MAT 6431

MT= 76 (n,n') Level  
Legendre Coefficients

64-Gd-154



64-Gd-154

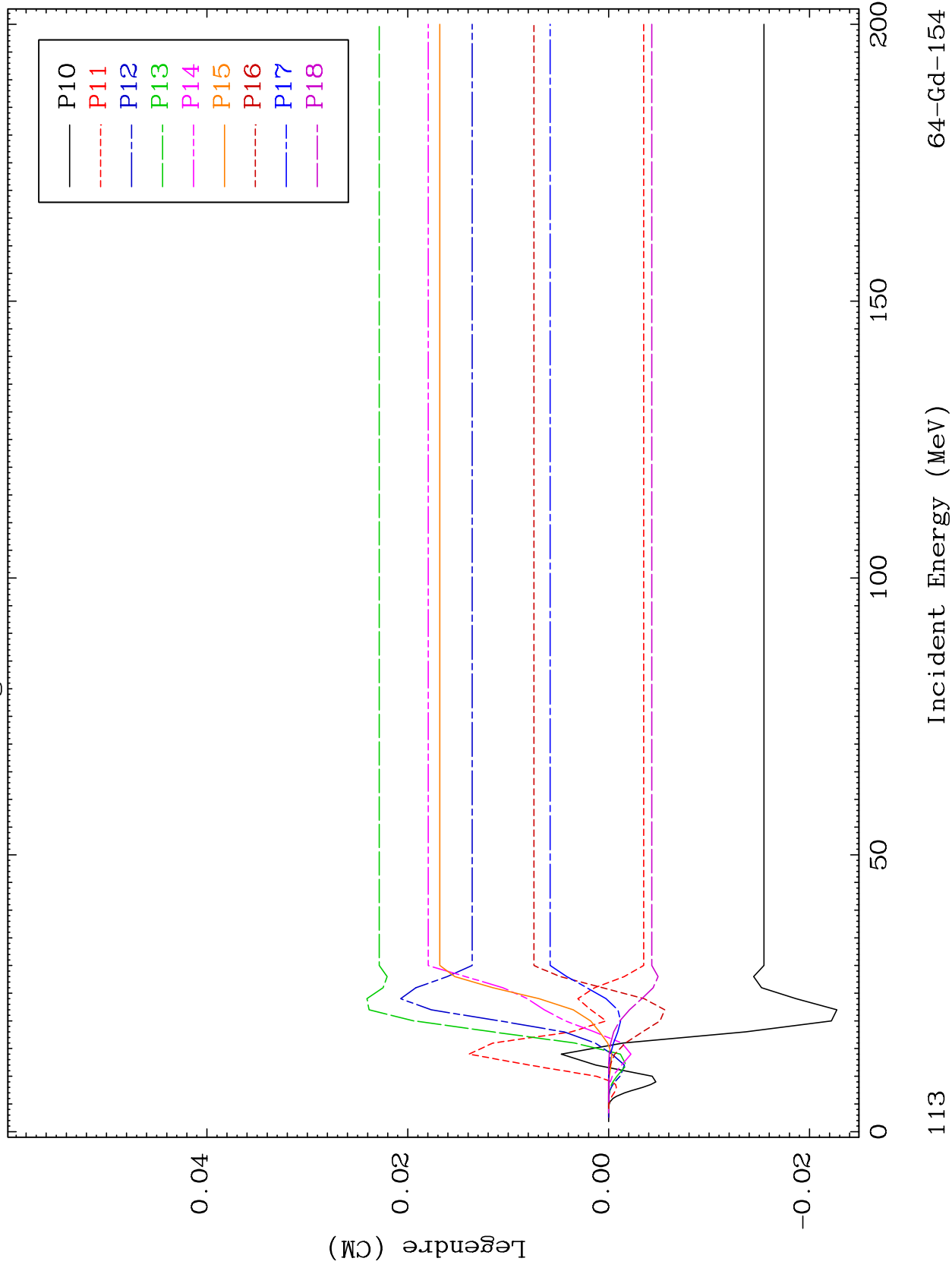
Incident Energy (MeV)

112

MAT 6431

MT= 76 (n,n') Level  
Legendre Coefficients

64-Gd-154



64-Gd-154

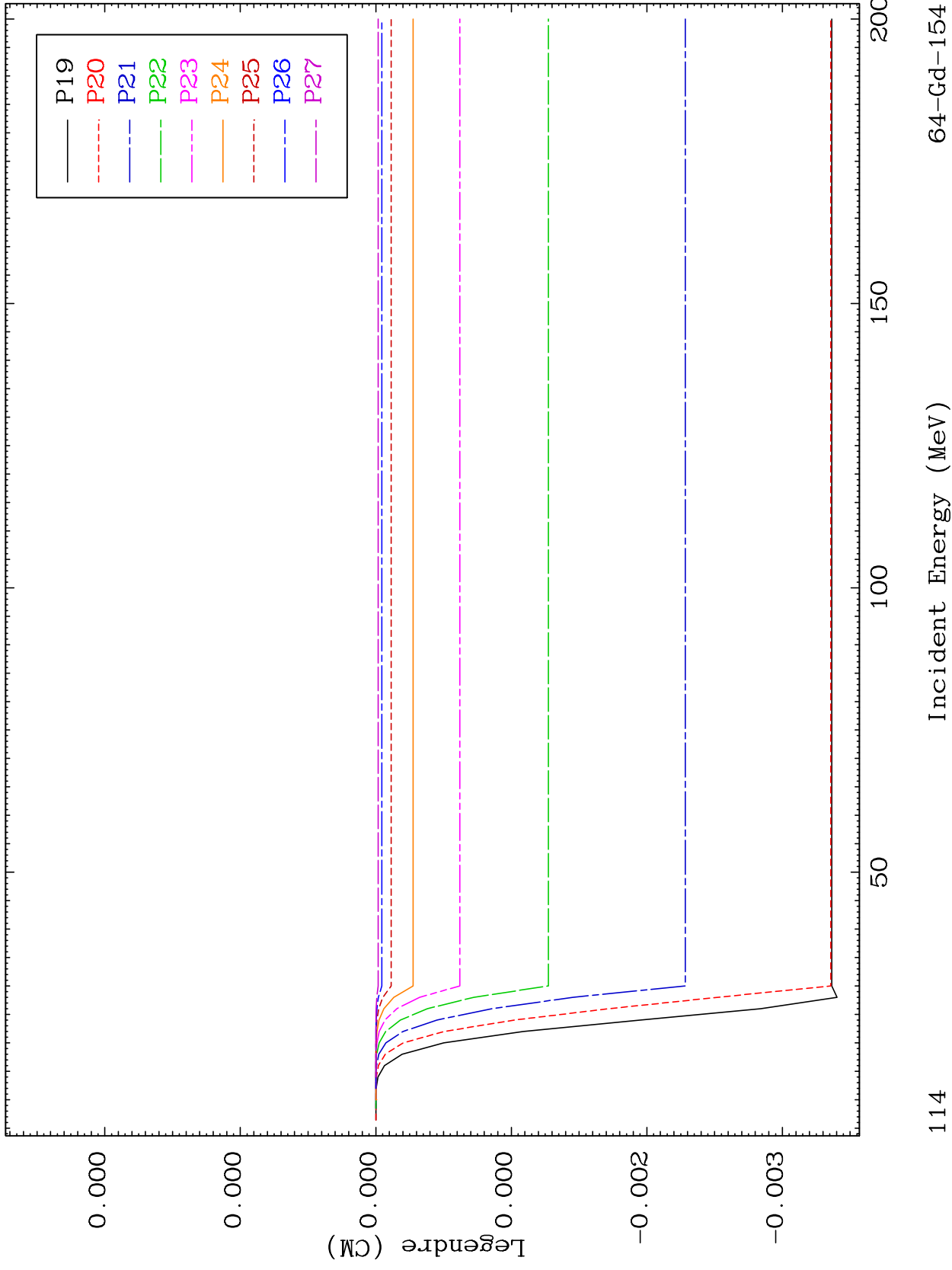
Incident Energy (MeV)

113

MAT 6431

MT= 76 (n,n') Level  
Legendre Coefficients

64-Gd-154

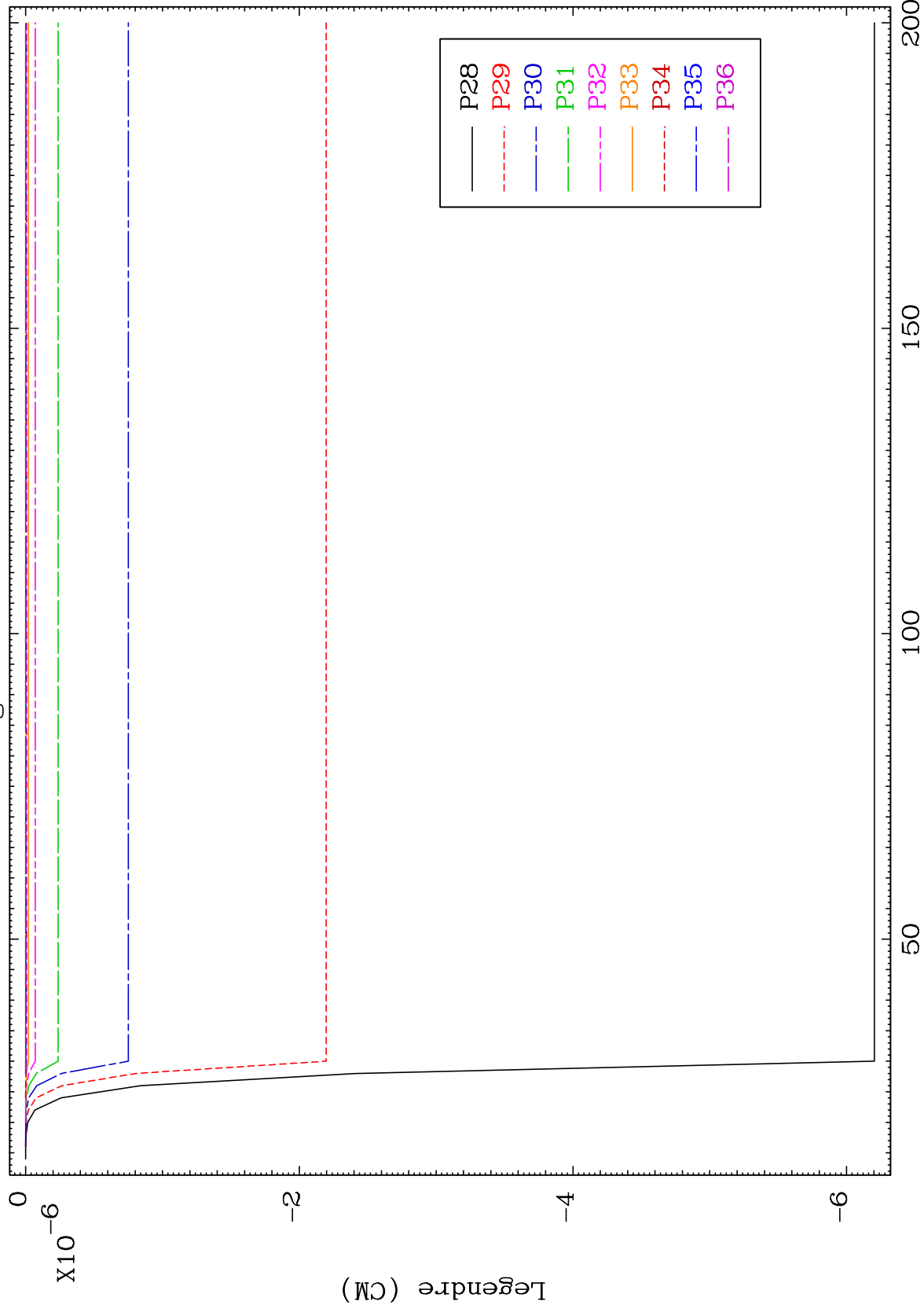


114

MAT 6431

MT= 76 (n,n') Level  
Legendre Coefficients

64-Gd-154



115

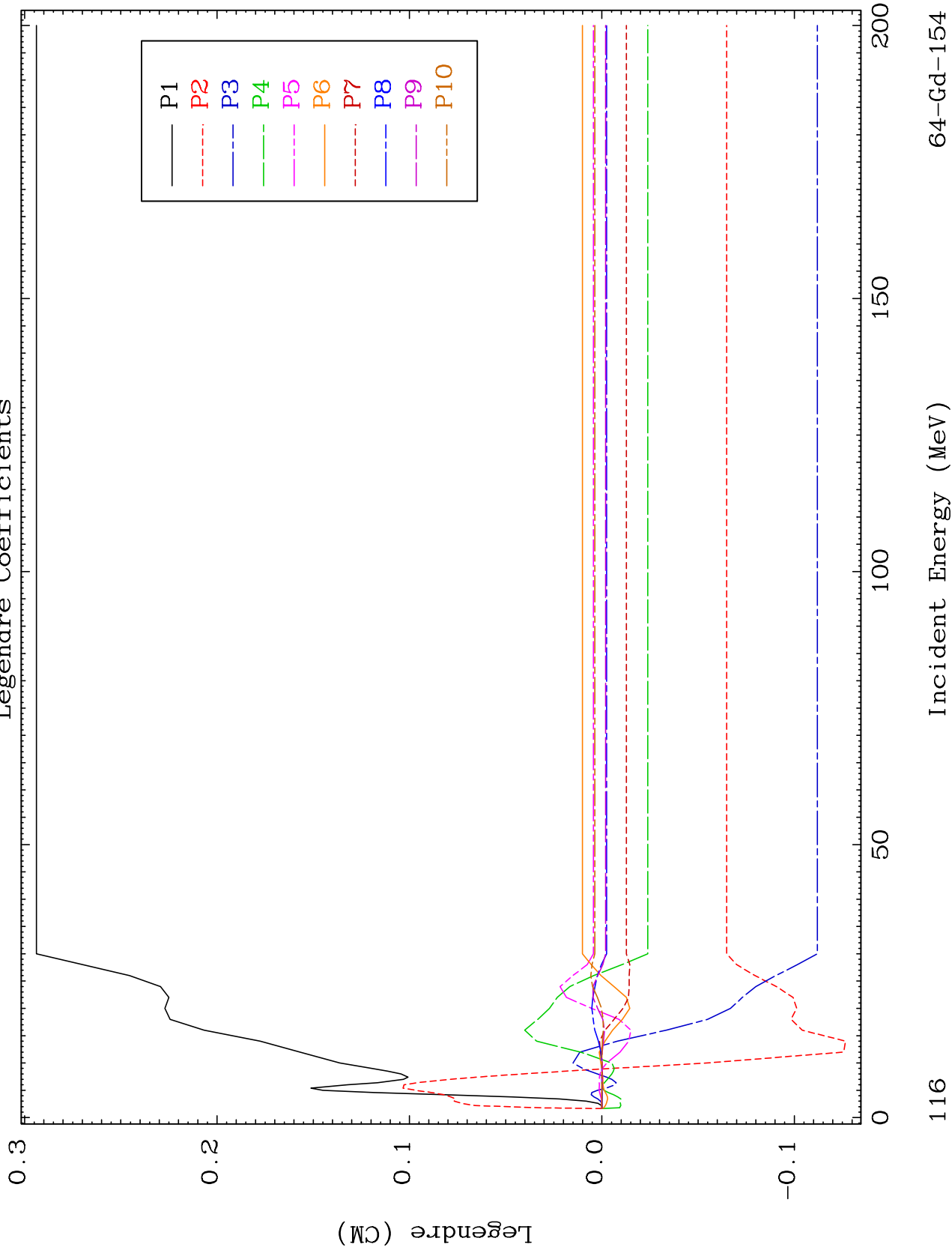
Incident Energy (MeV)

64-Gd-154

MAT 6431

MT= 77 (n,n') Level  
Legendre Coefficients

64-Gd-154



116

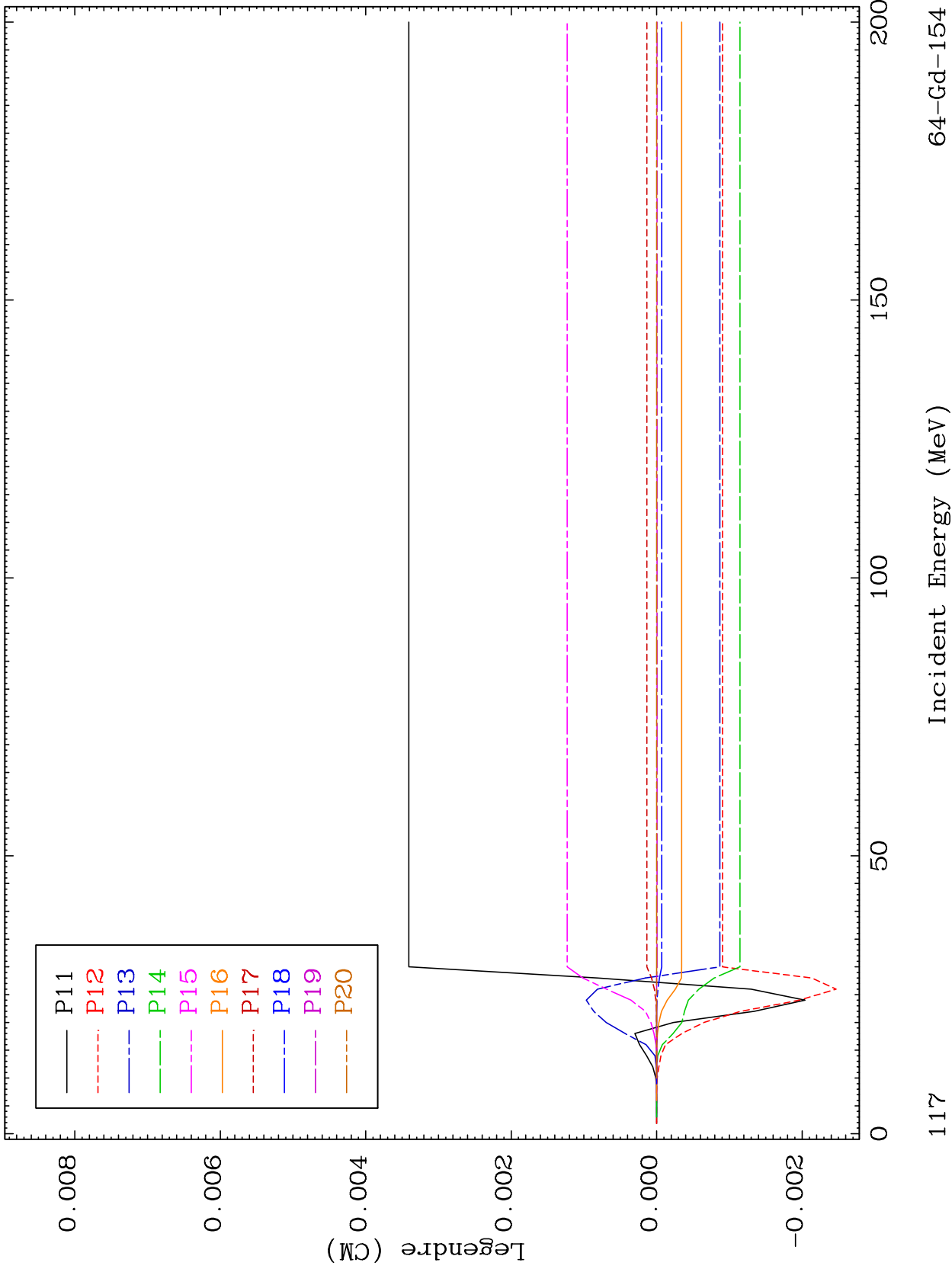
Incident Energy (MeV)

64-Gd-154

MAT 6431

MT= 77 (n,n') Level  
Legendre Coefficients

64-Gd-154



117

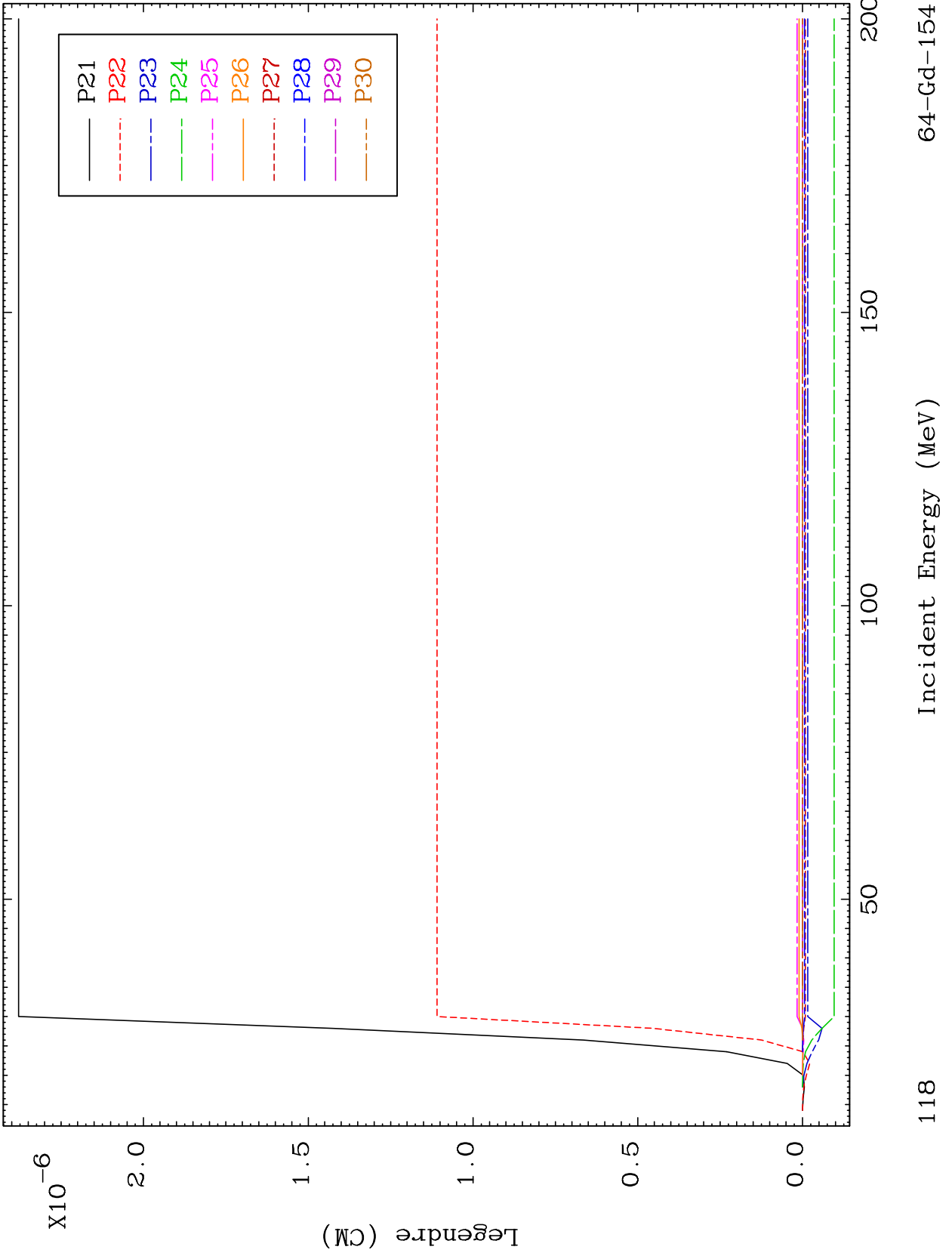
Incident Energy (MeV)

64-Gd-154

MAT 6431

MT= 77 (n,n') Level  
Legendre Coefficients

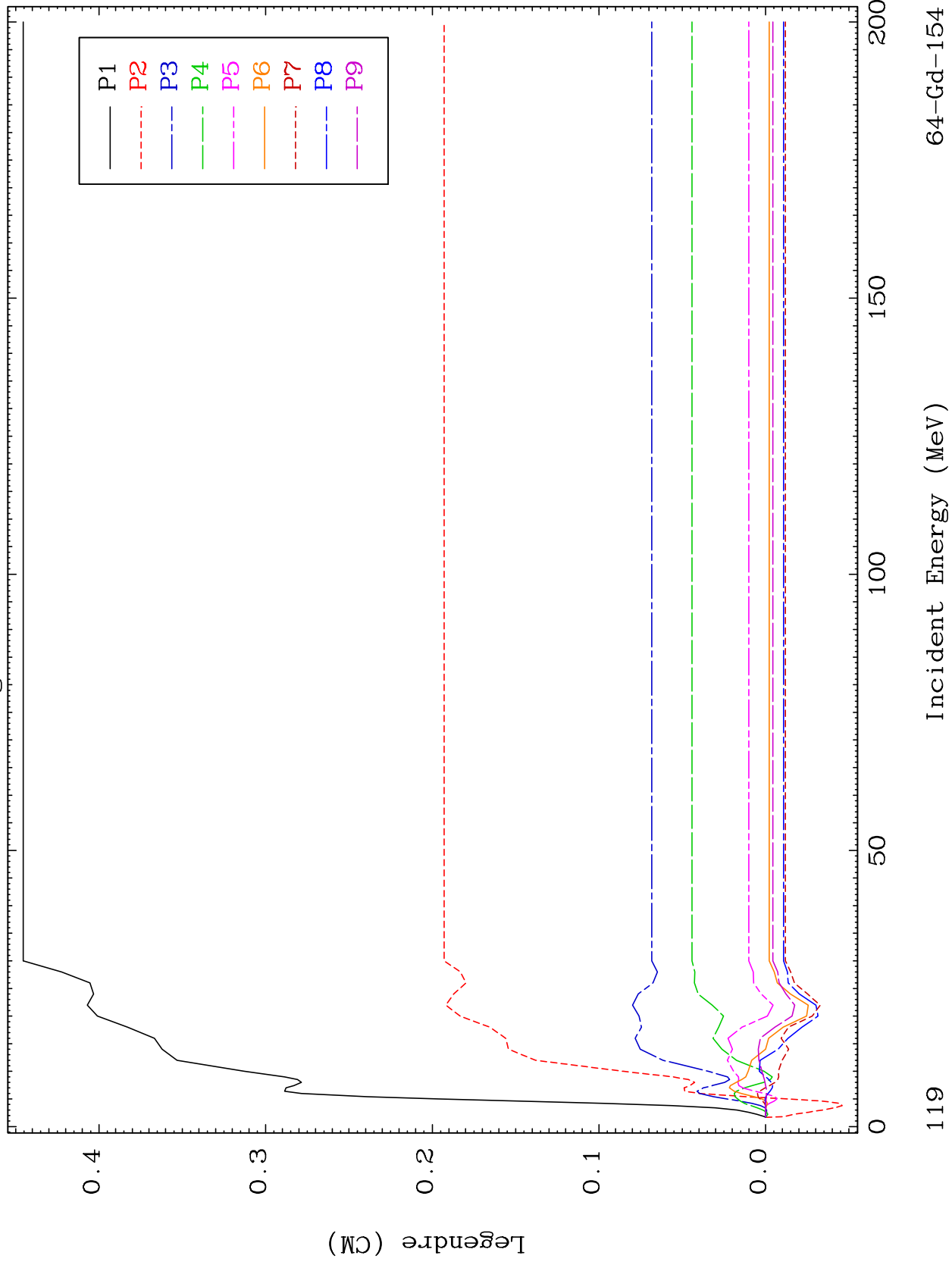
64-Gd-154



MAT 6431

MT= 78 (n,n') Level  
Legendre Coefficients

64-Gd-154

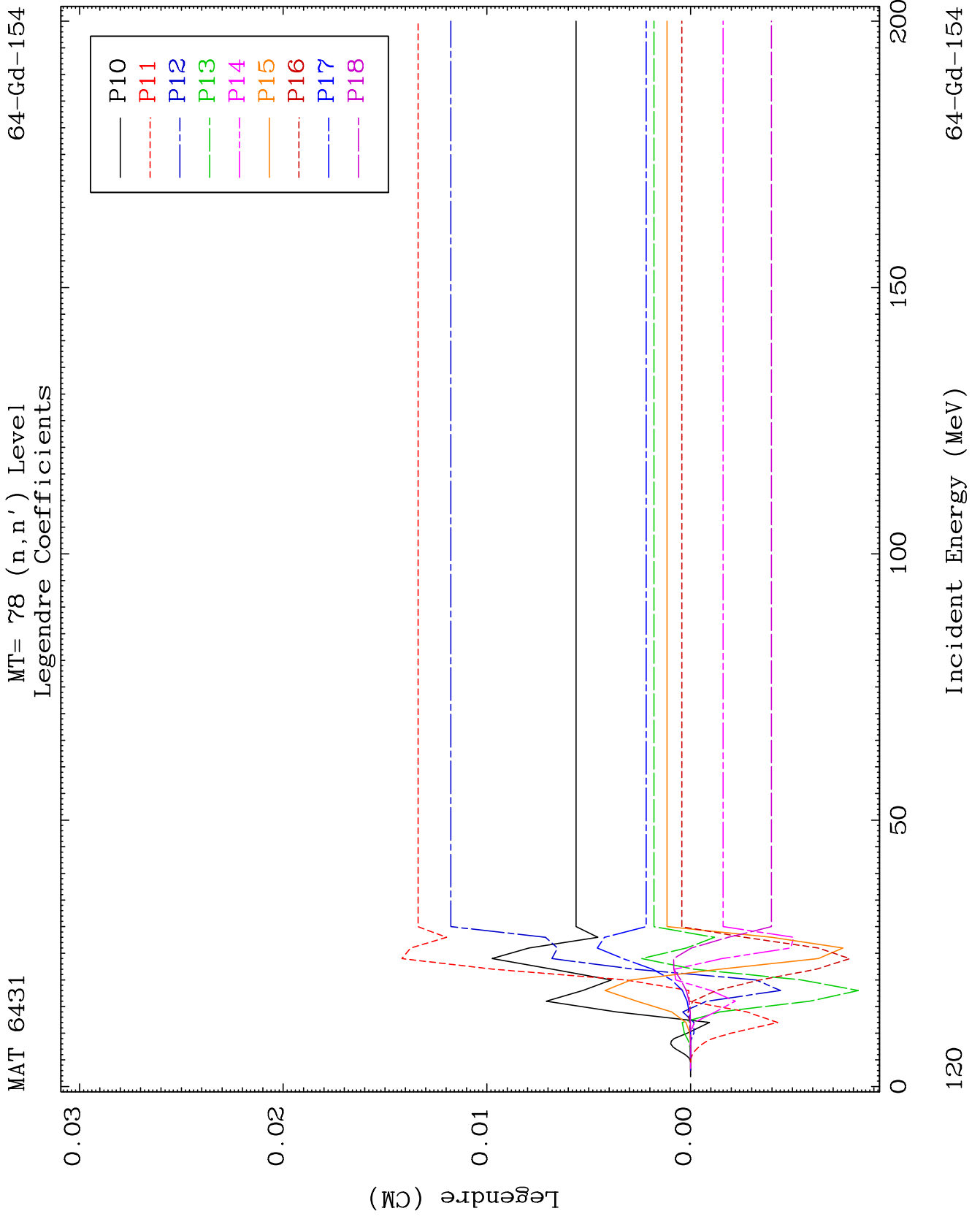


64-Gd-154

Incident Energy (MeV)

119

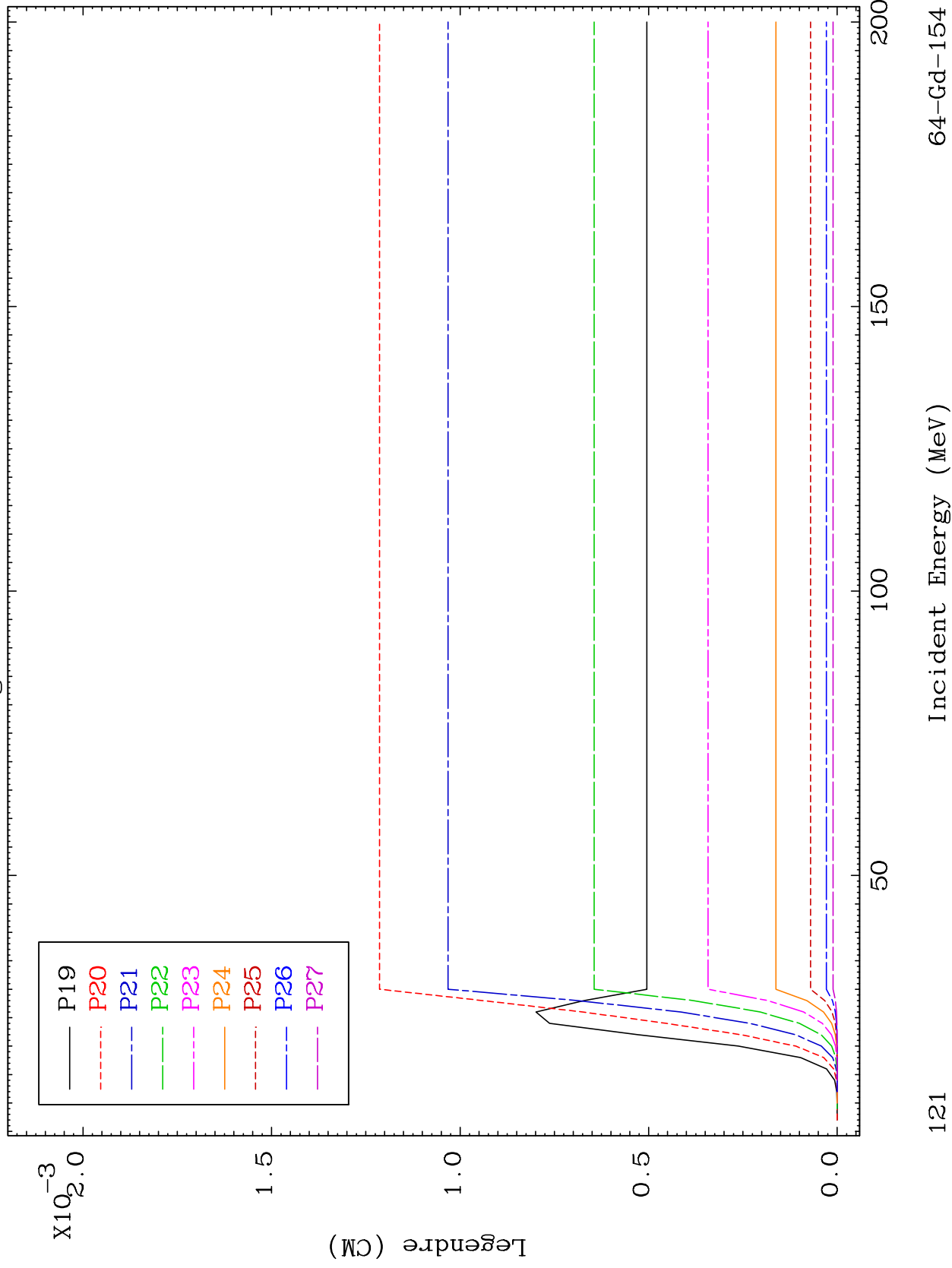




MAT 6431

MT= 78 (n,n') Level  
Legendre Coefficients

64-Gd-154

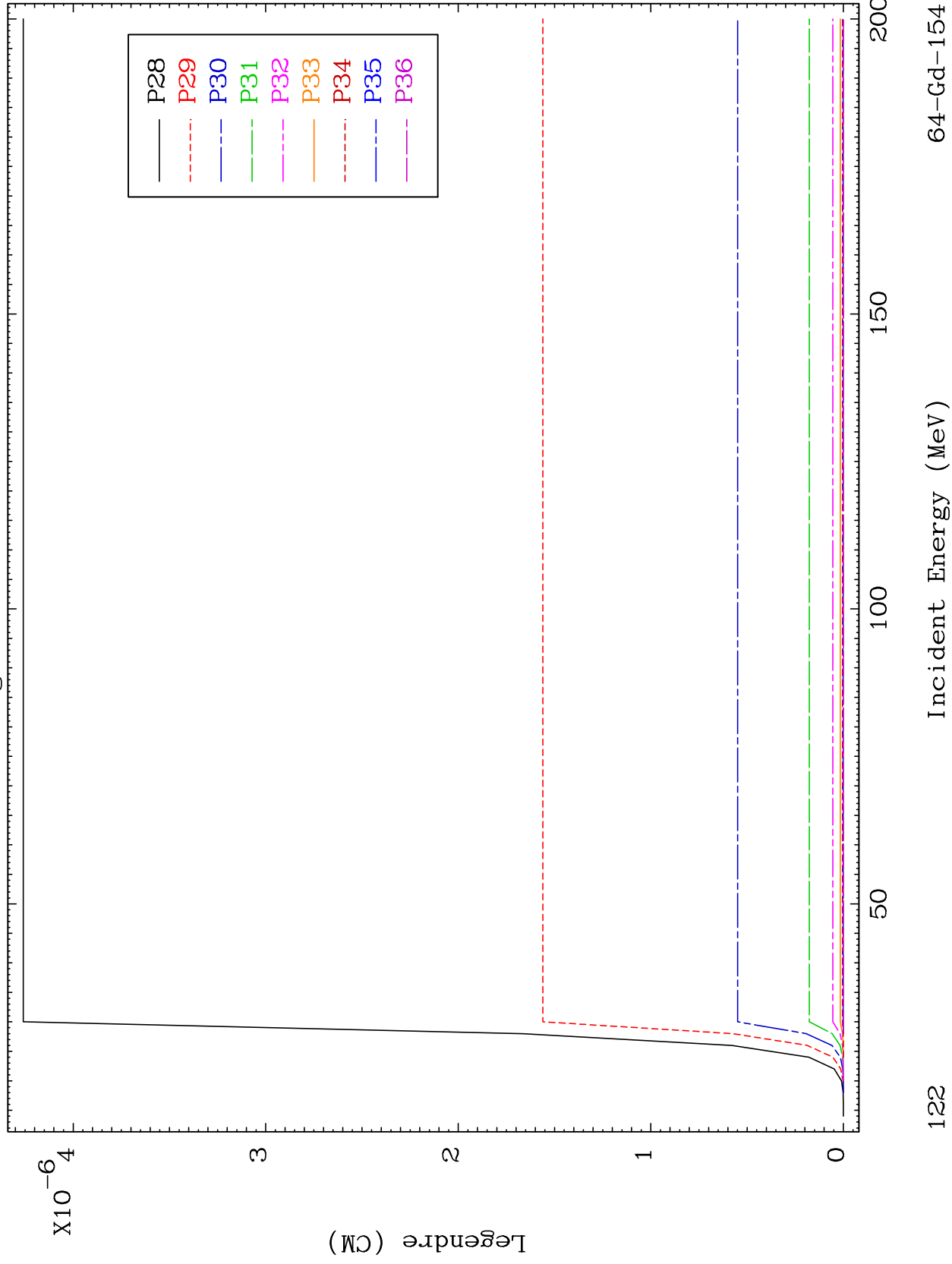


121

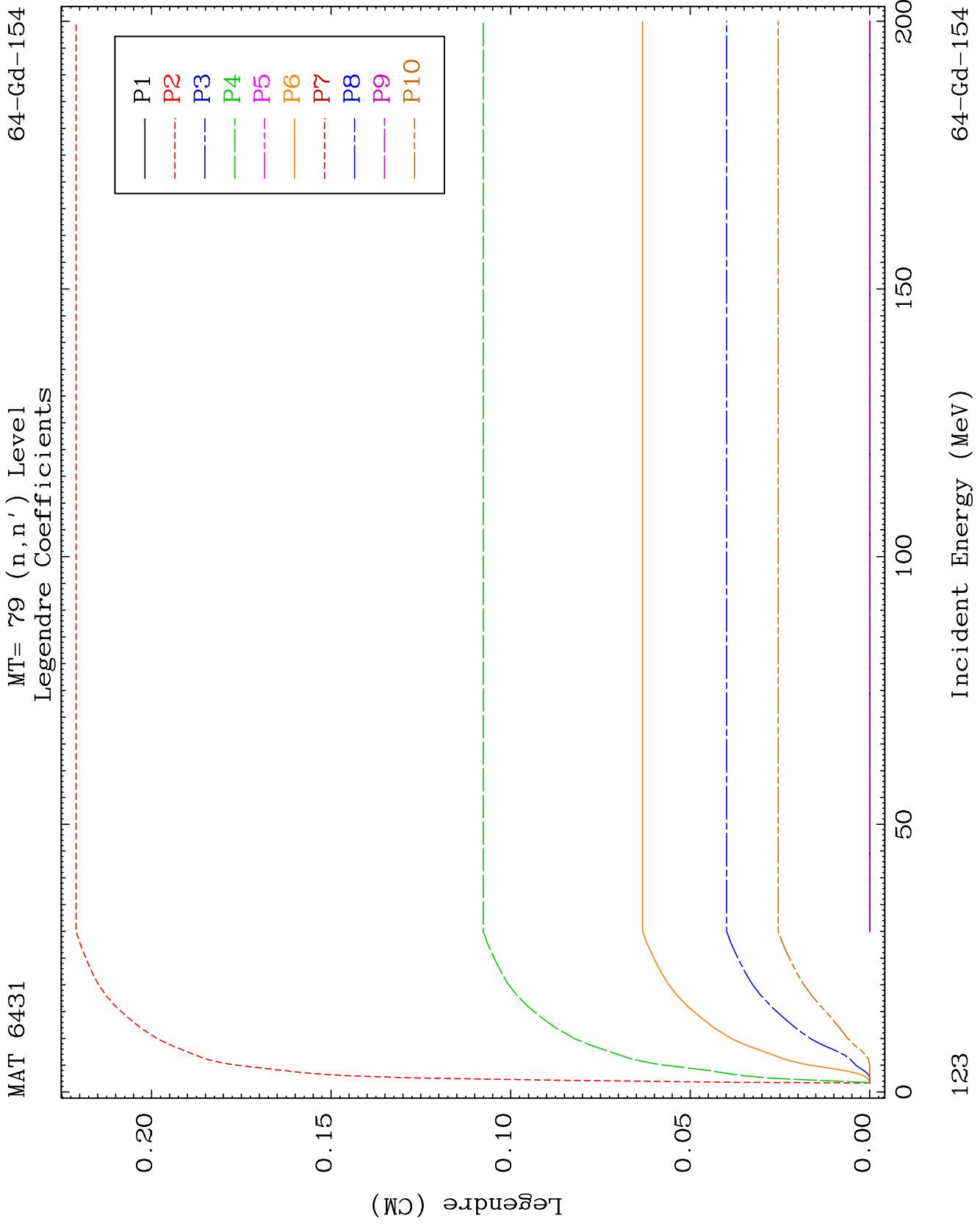
MAT 6431

MT= 78 (n,n') Level  
Legendre Coefficients

64-Gd-154



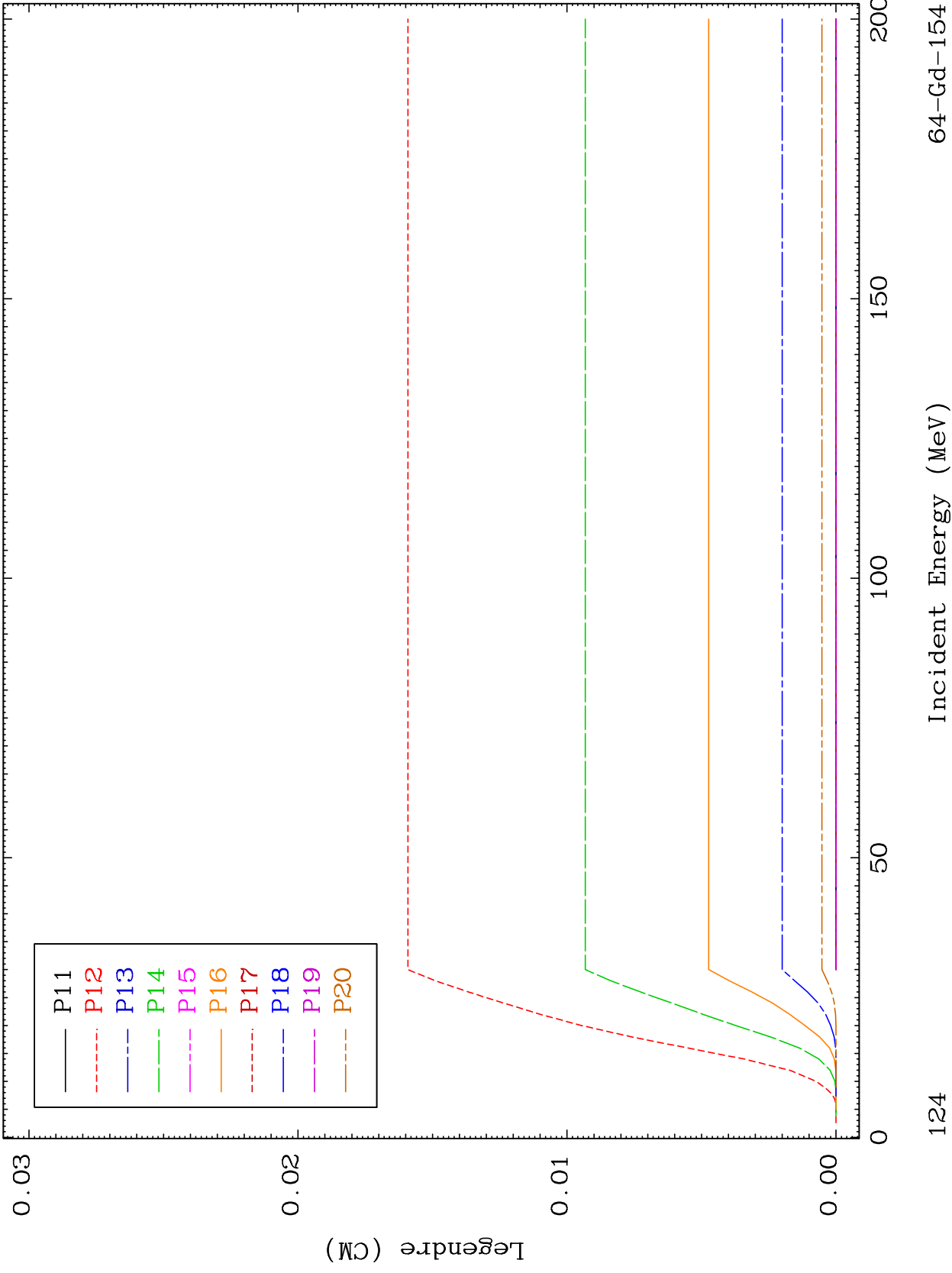
122



MAT 6431

MT= 79 (n,n') Level  
Legendre Coefficients

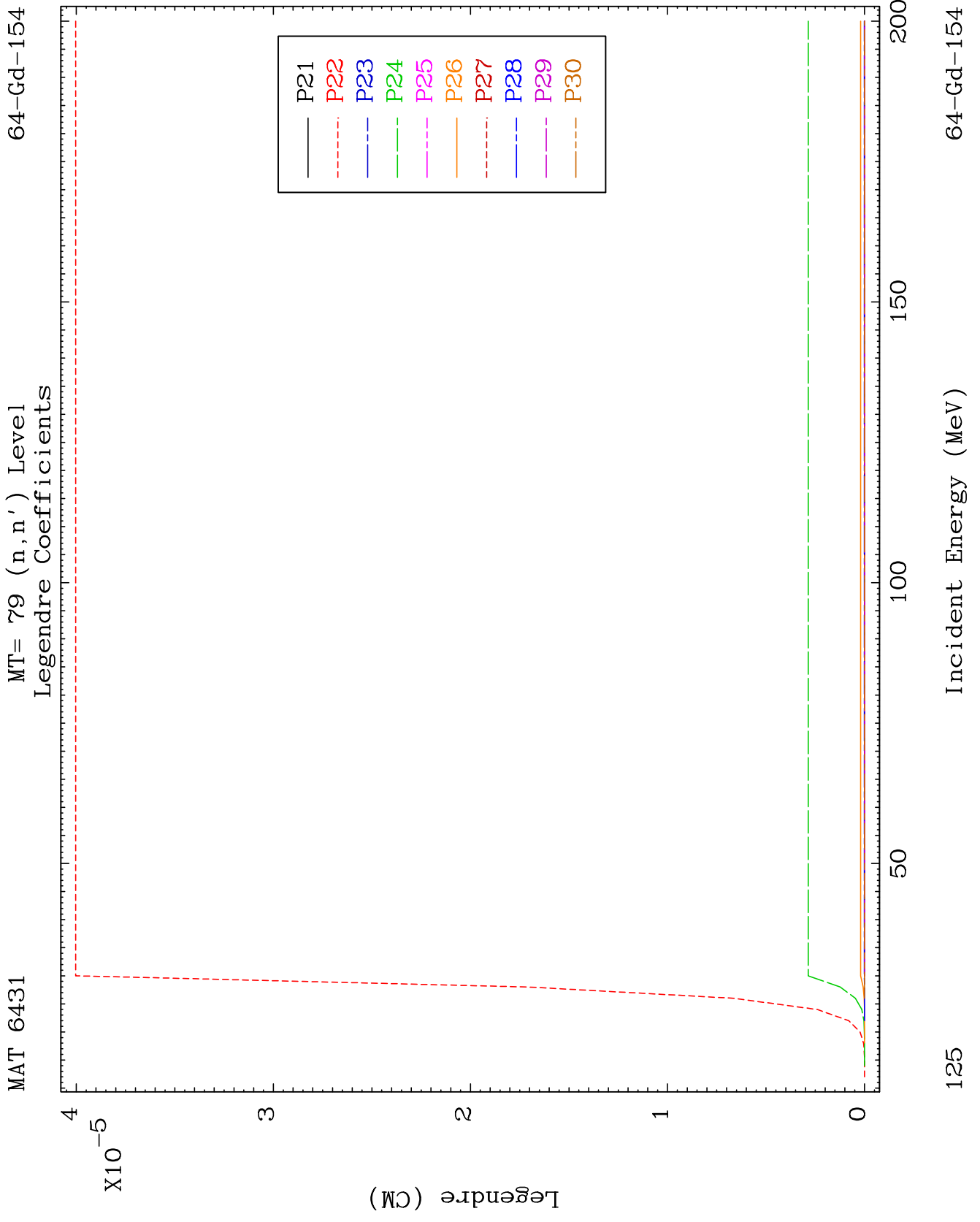
64-Gd-154



124

Incident Energy (MeV)

64-Gd-154

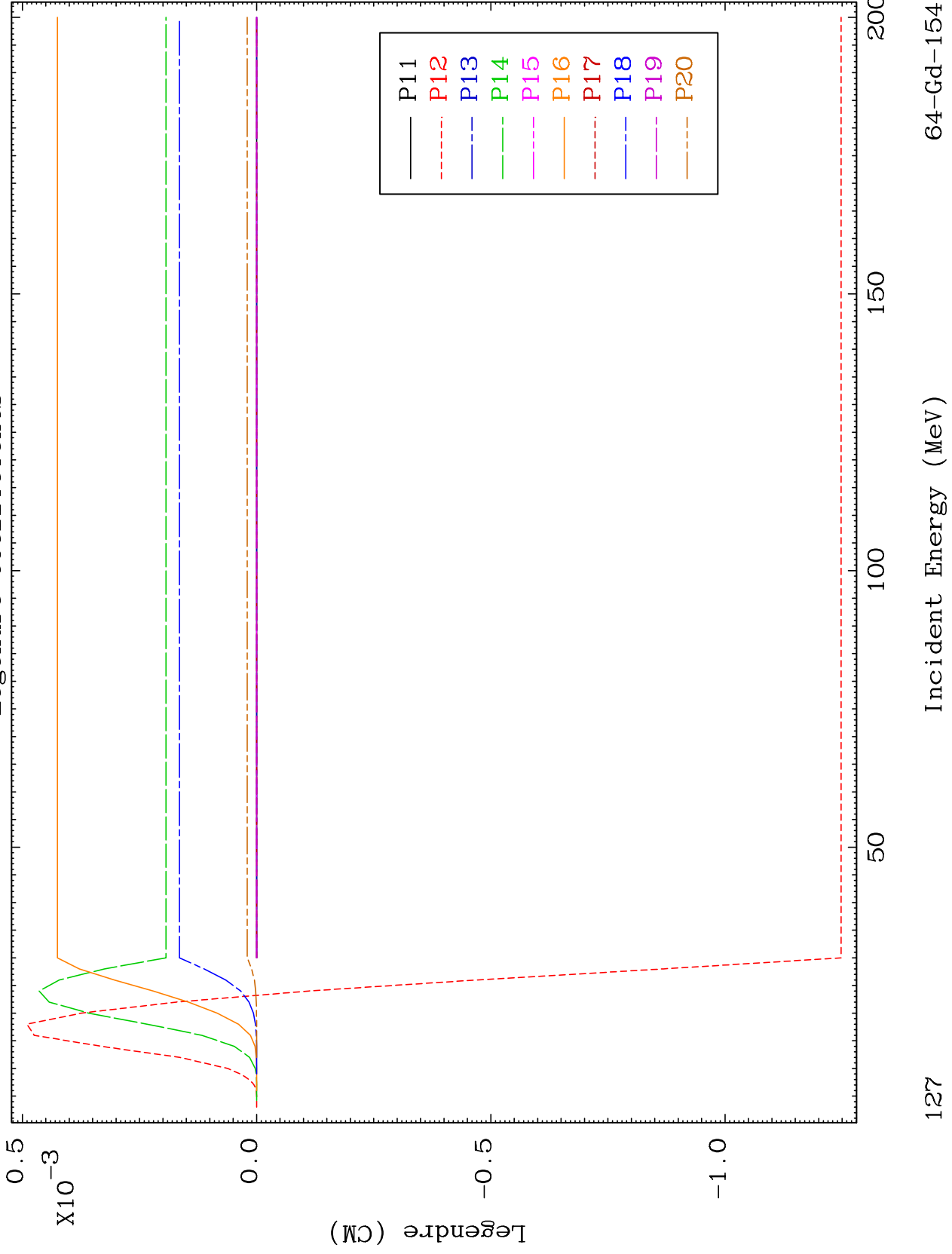




MAT 6431

MT= 80 (n,n') Level  
Legendre Coefficients

64-Gd-154

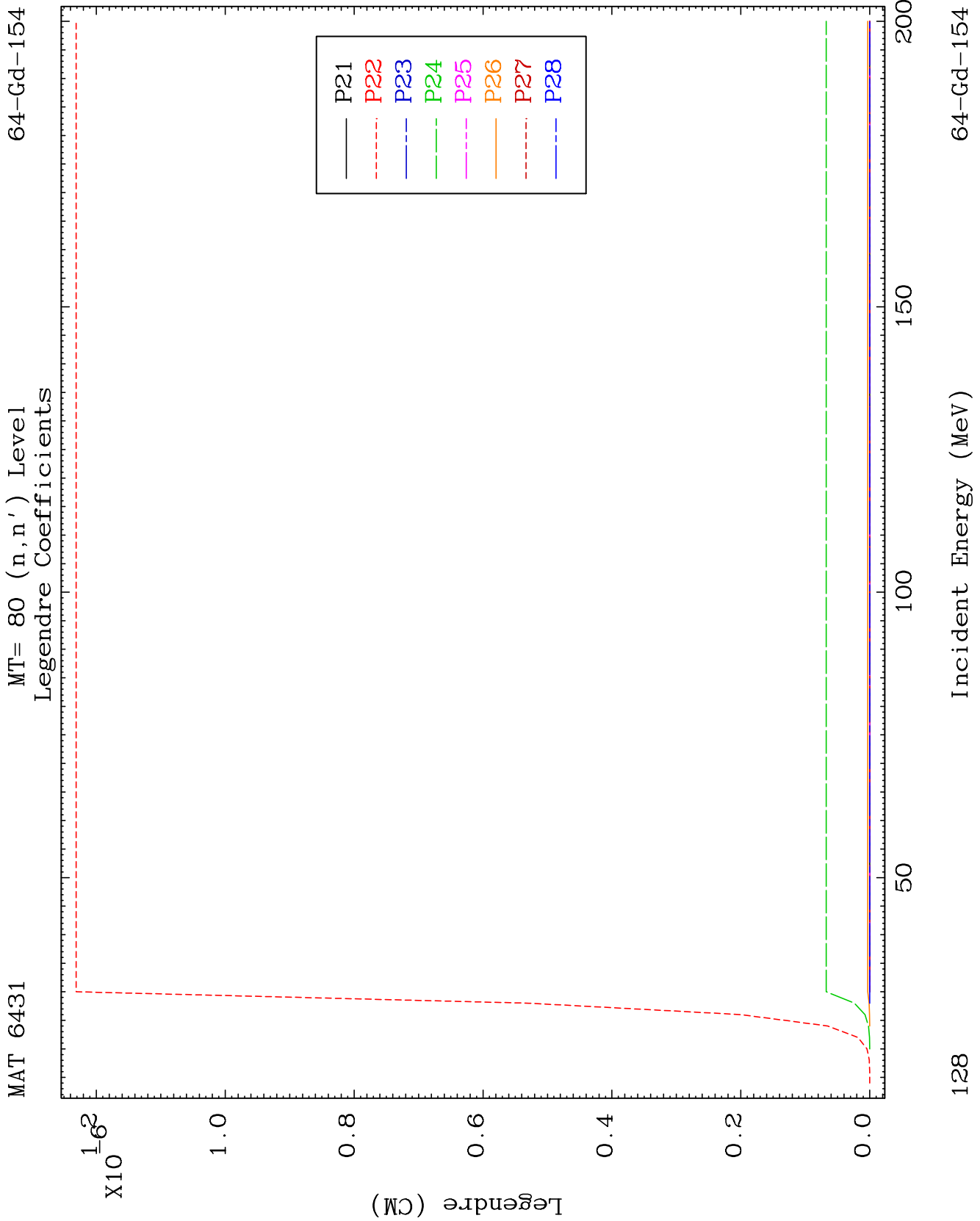


127

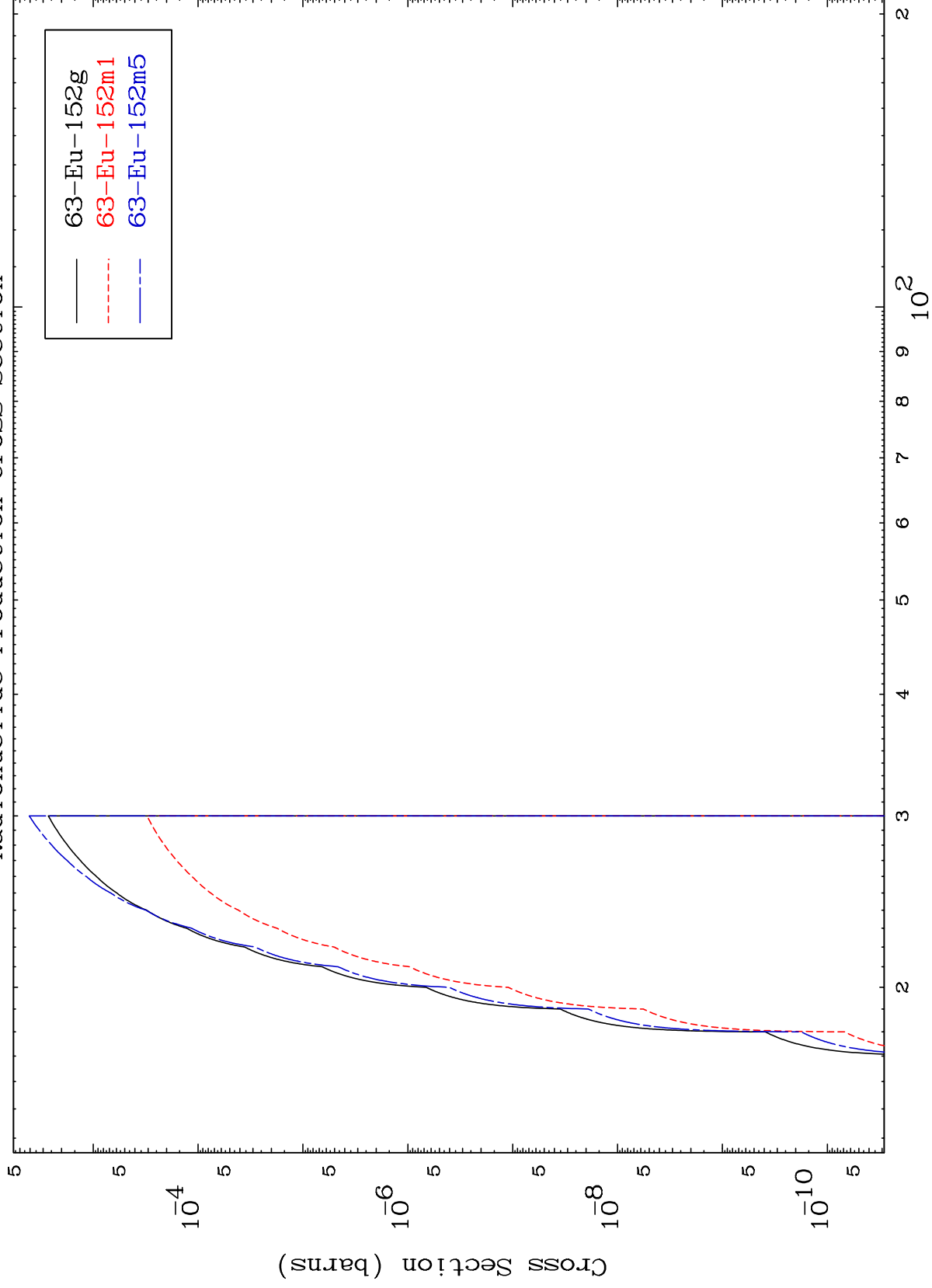
Incident Energy (MeV)

64-Gd-154





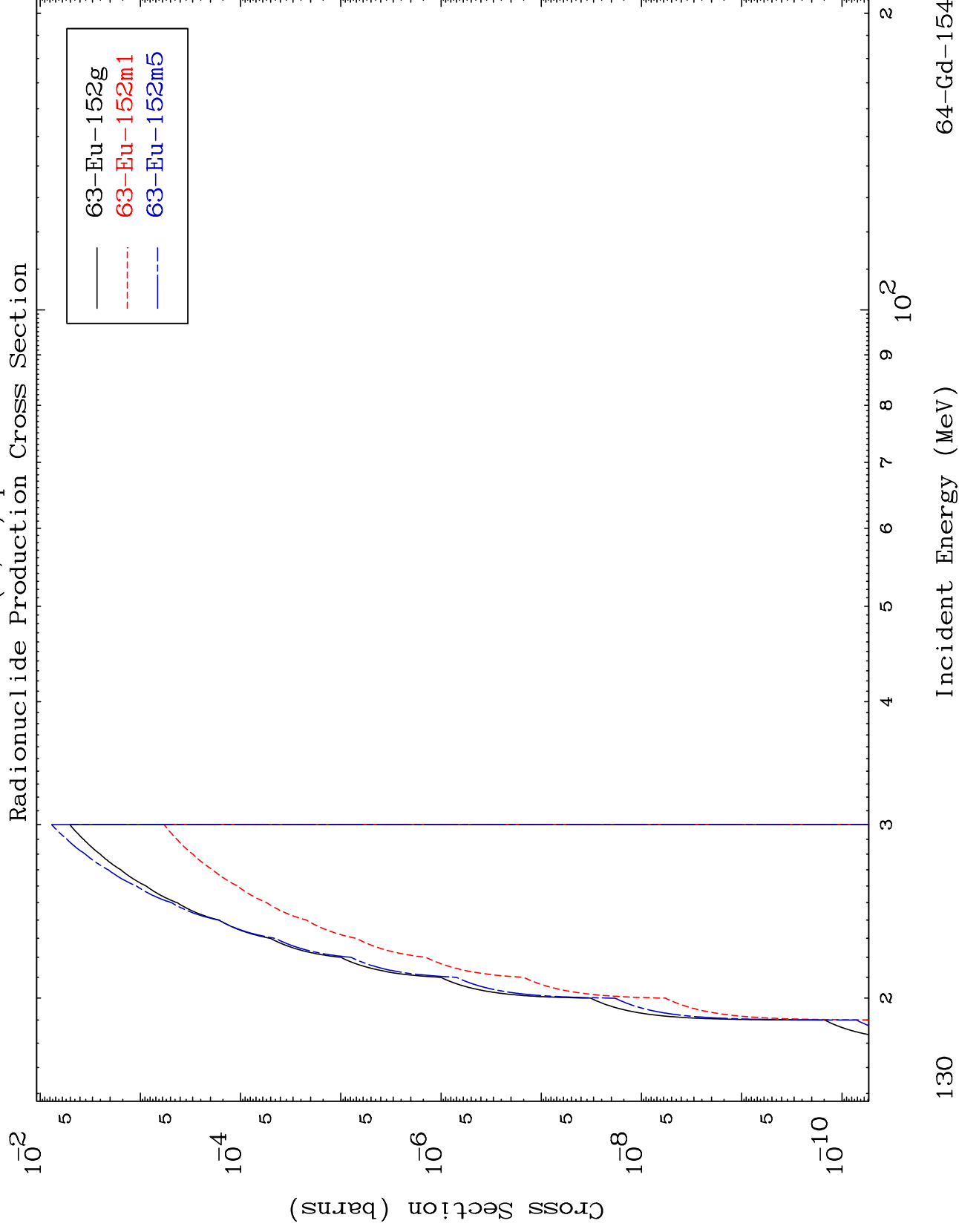
Radionuclide Production Cross Section



MAT 6431

(n,2n) p

64-Gd-154



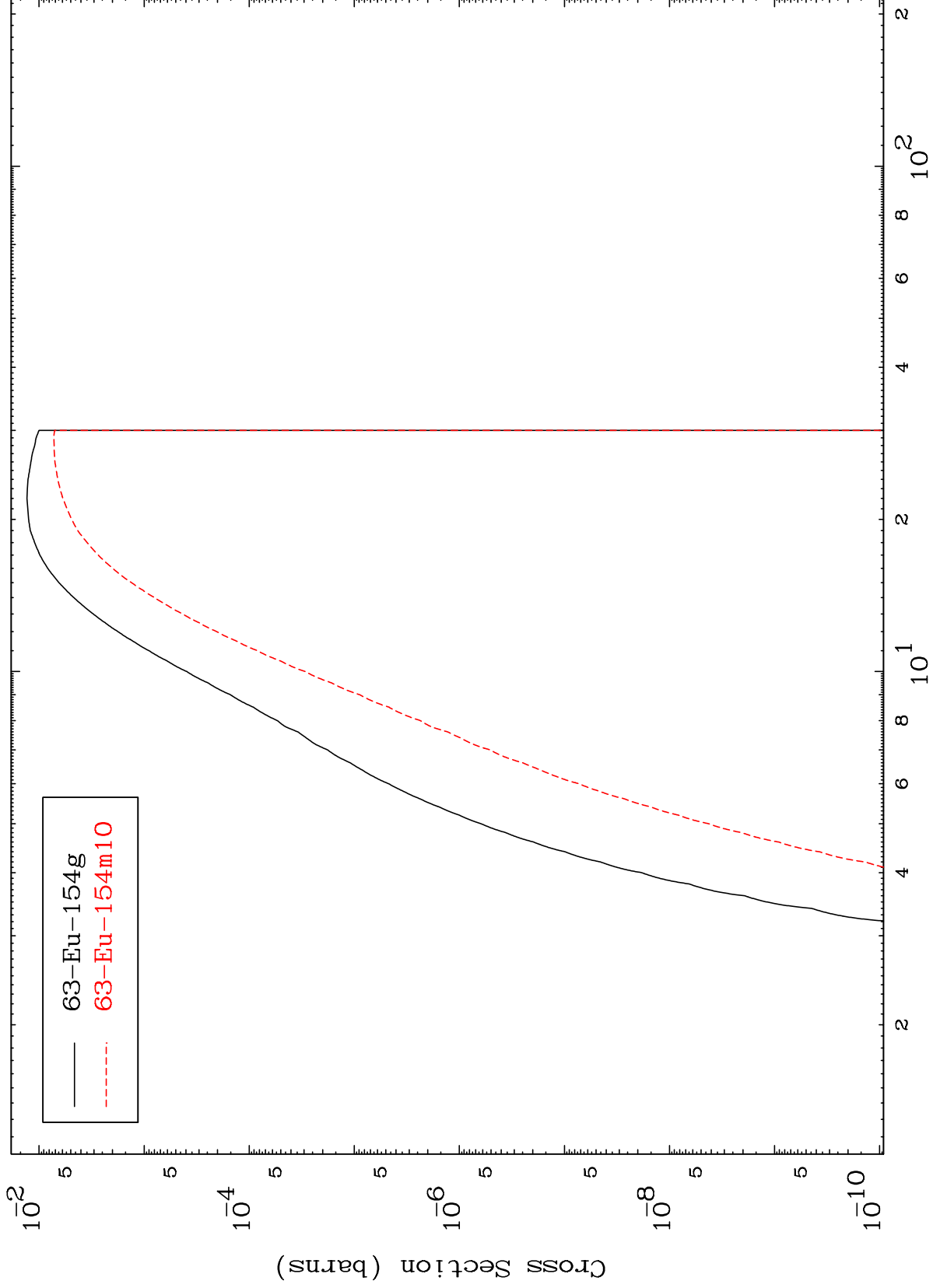
130

64-Gd-154

MAT 6431

64-Gd-154

(n,p)  
Radionuclide Production Cross Section



131

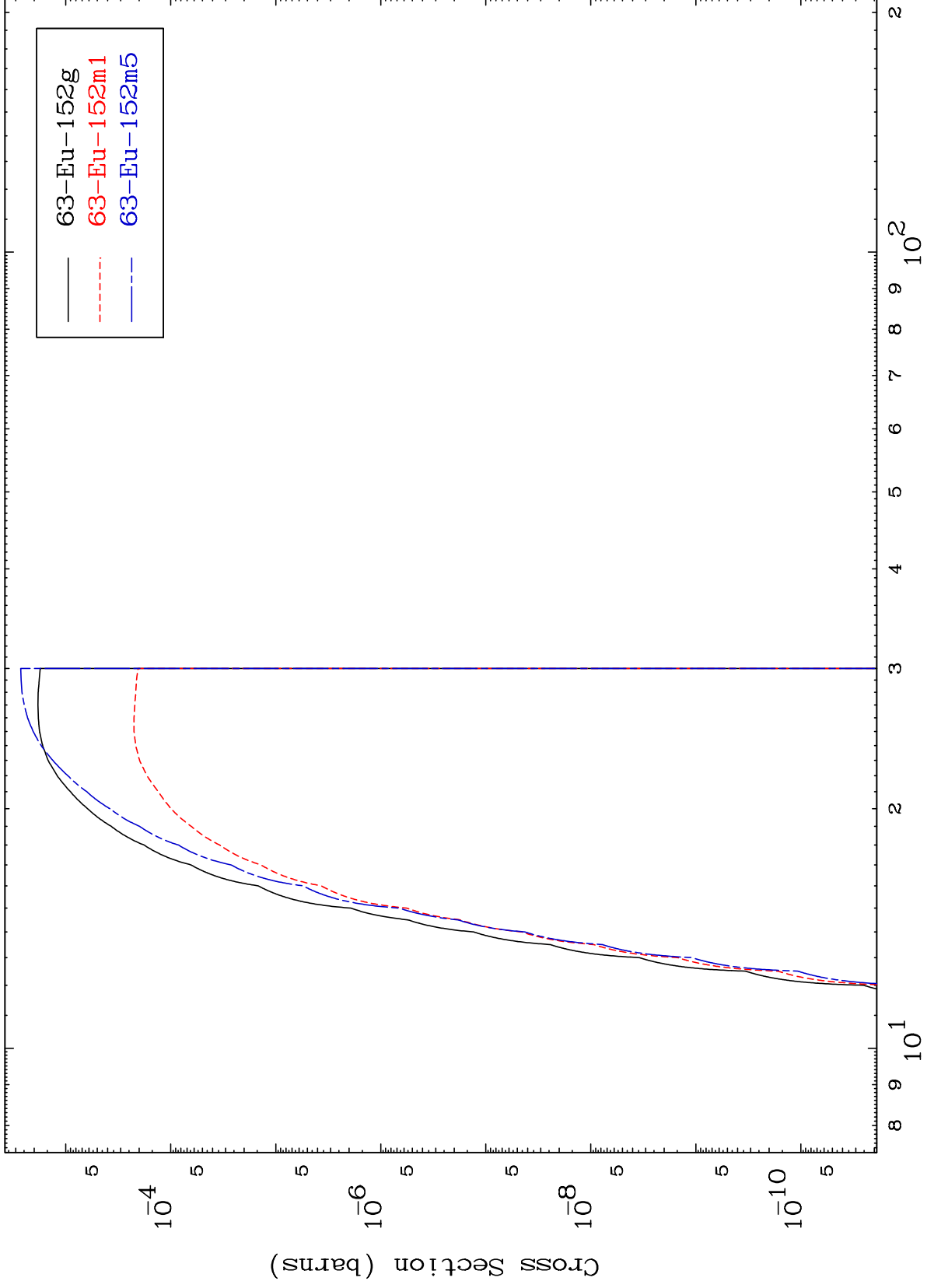
Incident Energy (MeV)

64-Gd-154

MAT 6431

64-Gd-154

(n, t)  
Radionuclide Production Cross Section



132

Incident Energy (MeV)

64-Gd-154