

Program EVALPLOT  
(Version 2015-2)

by

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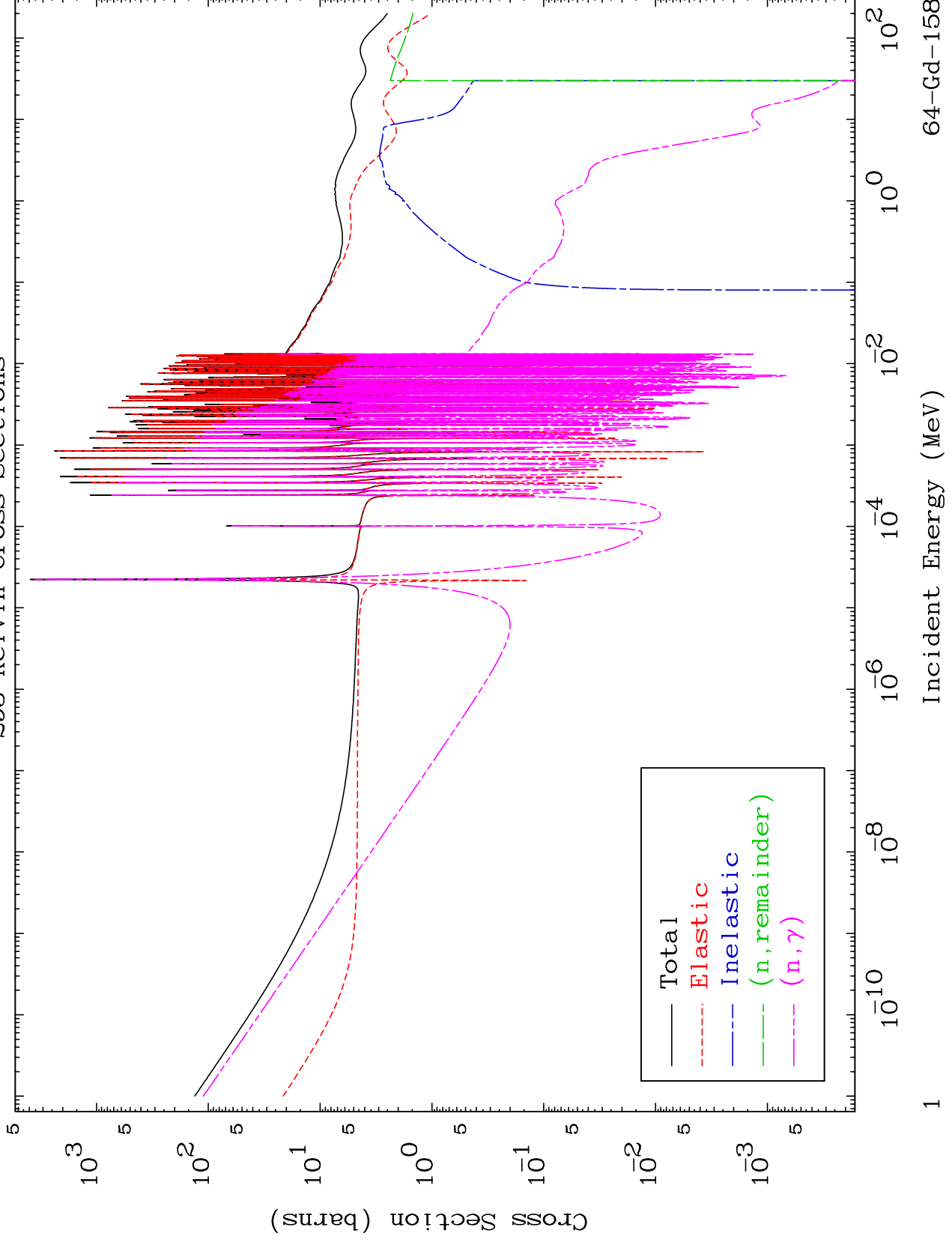
Press Mouse Button to Start

MAT 6443

Major

293 Kelvin Cross Sections

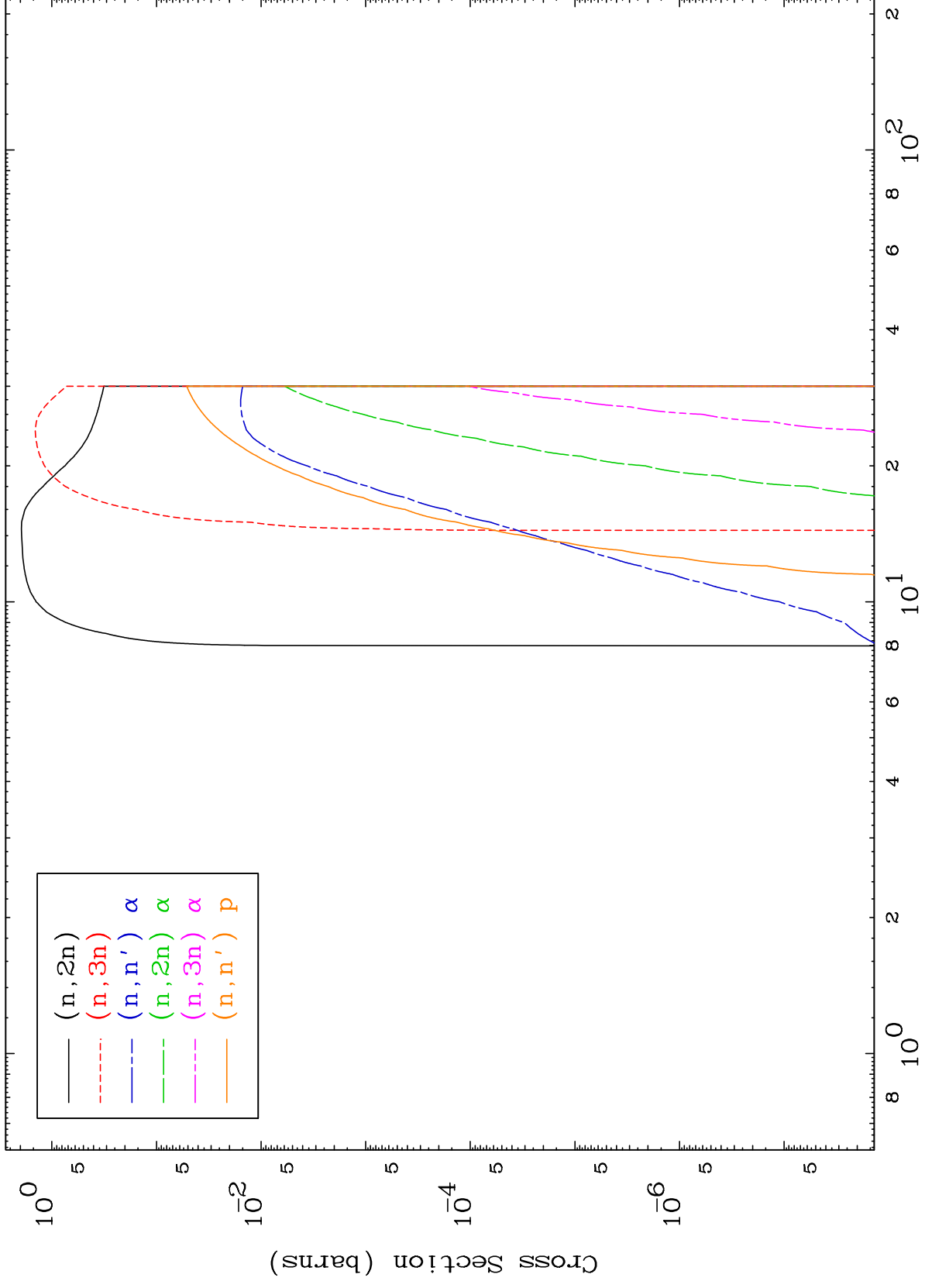
64-Gd-158

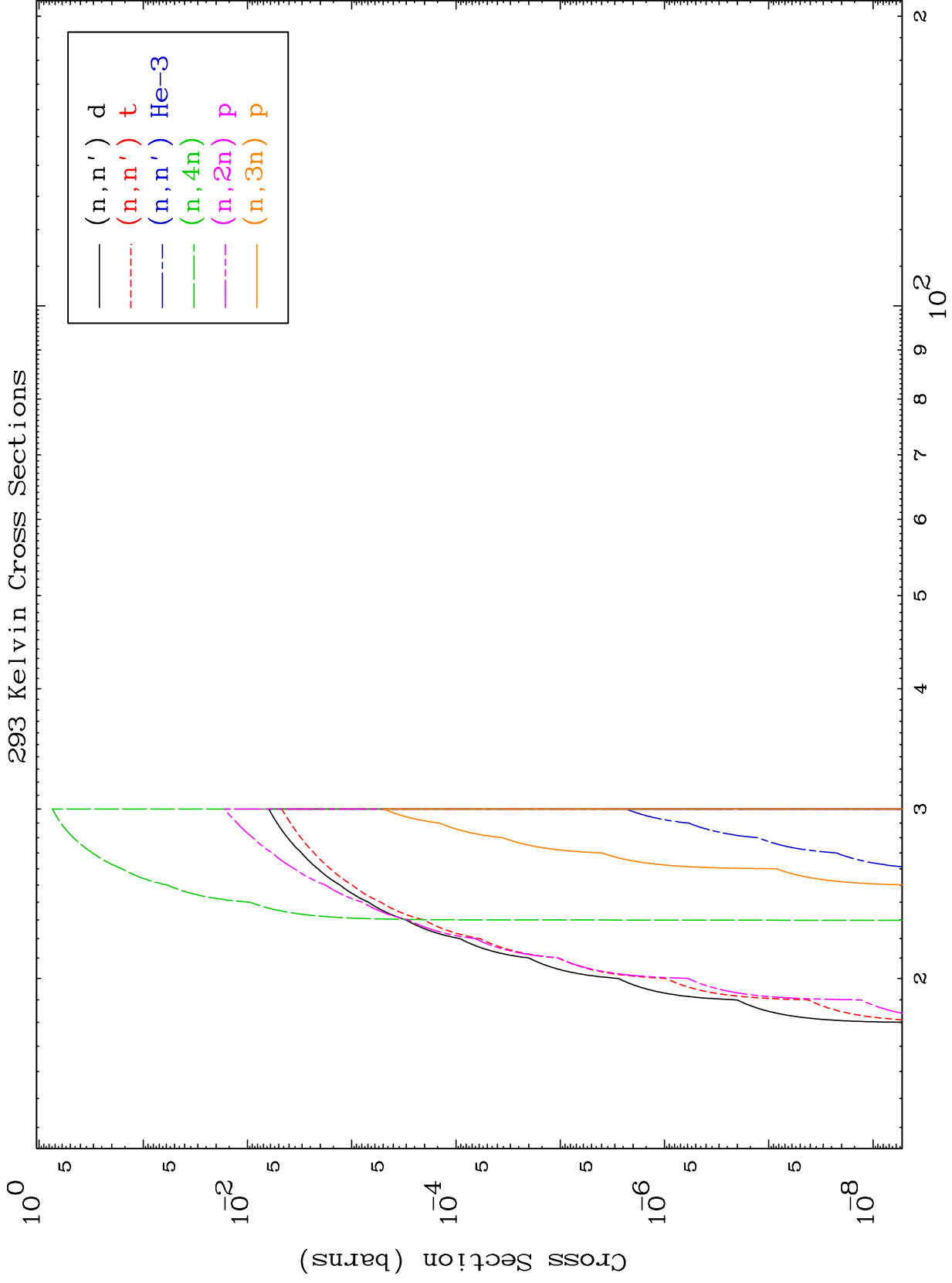


MAT 6443

Neutron Production  
293 Kelvin Cross Sections

64-Gd-158



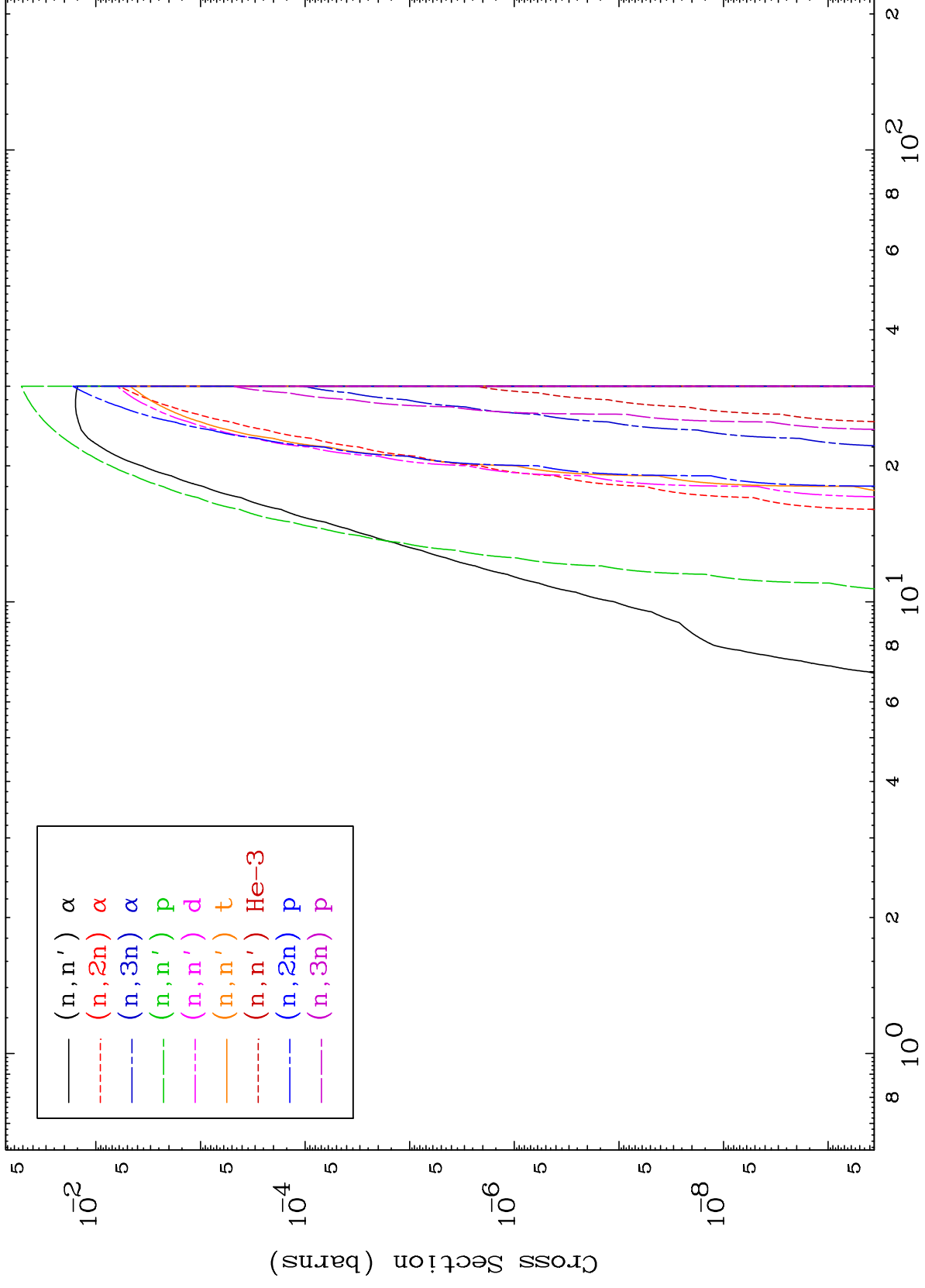


MAT 6443

Charged Particle

64-Gd-158

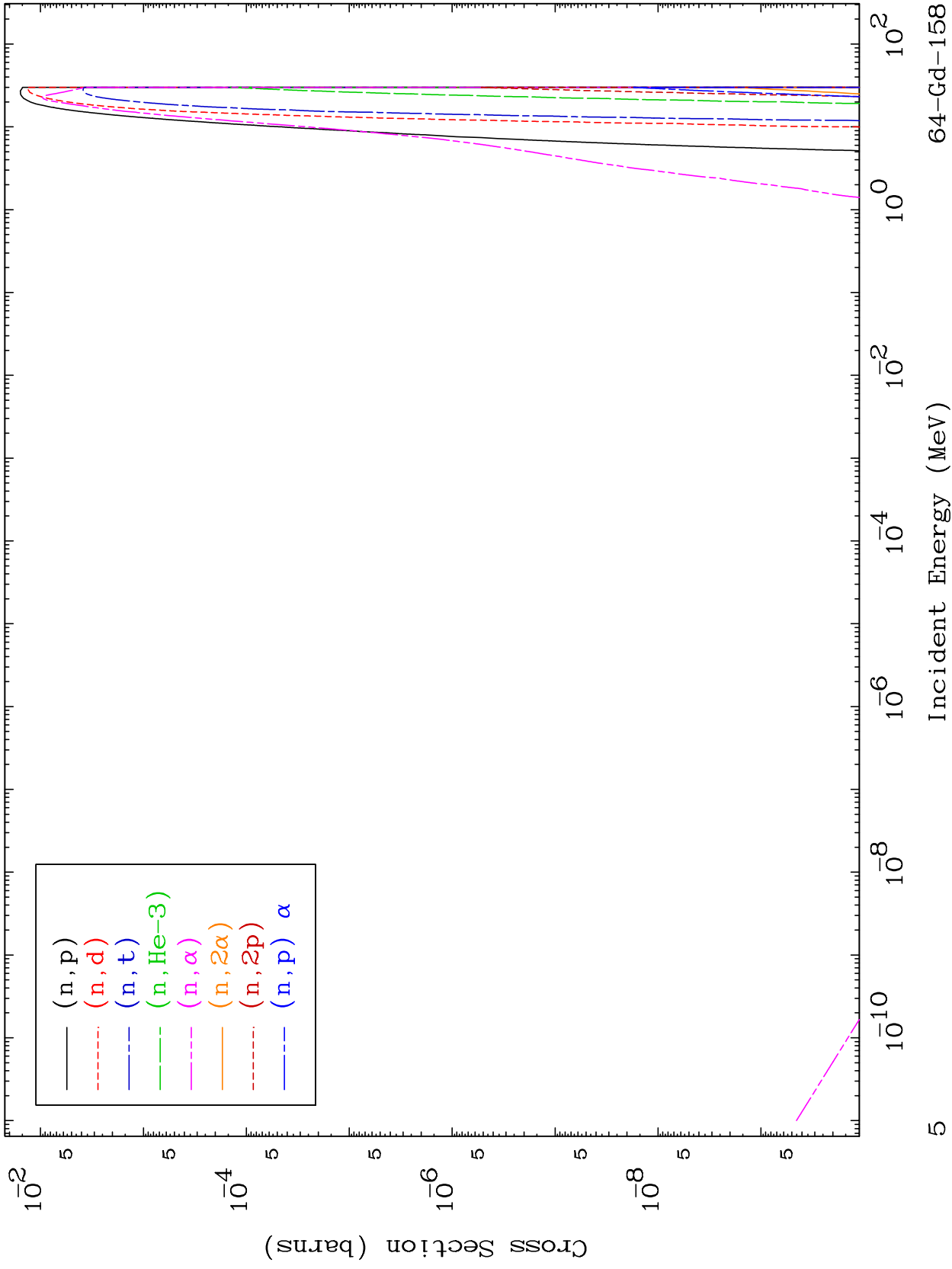
293 Kelvin Cross Sections

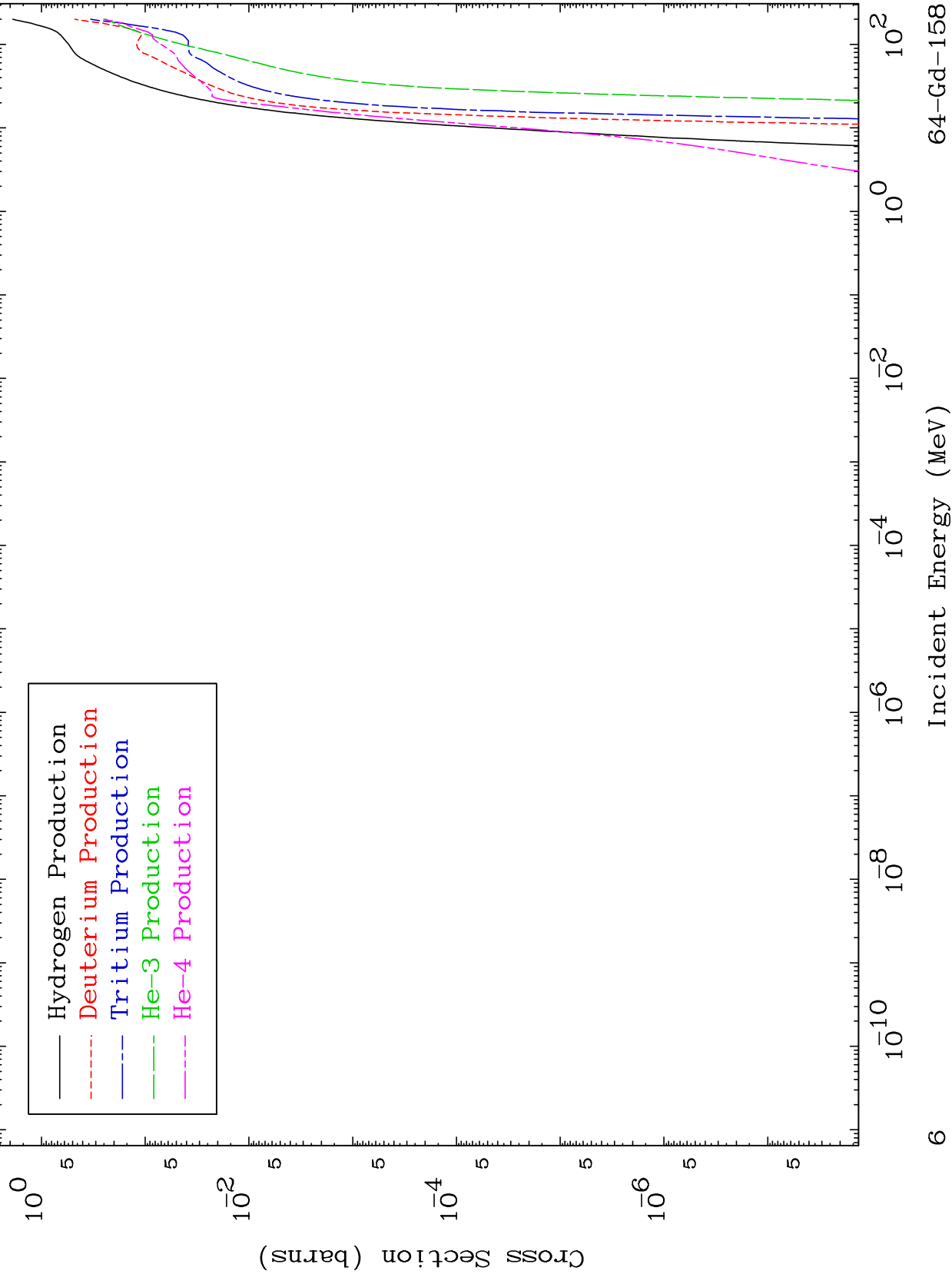


MAT 6443

Charged Particle  
293 Kelvin Cross Sections

64-Gd-158

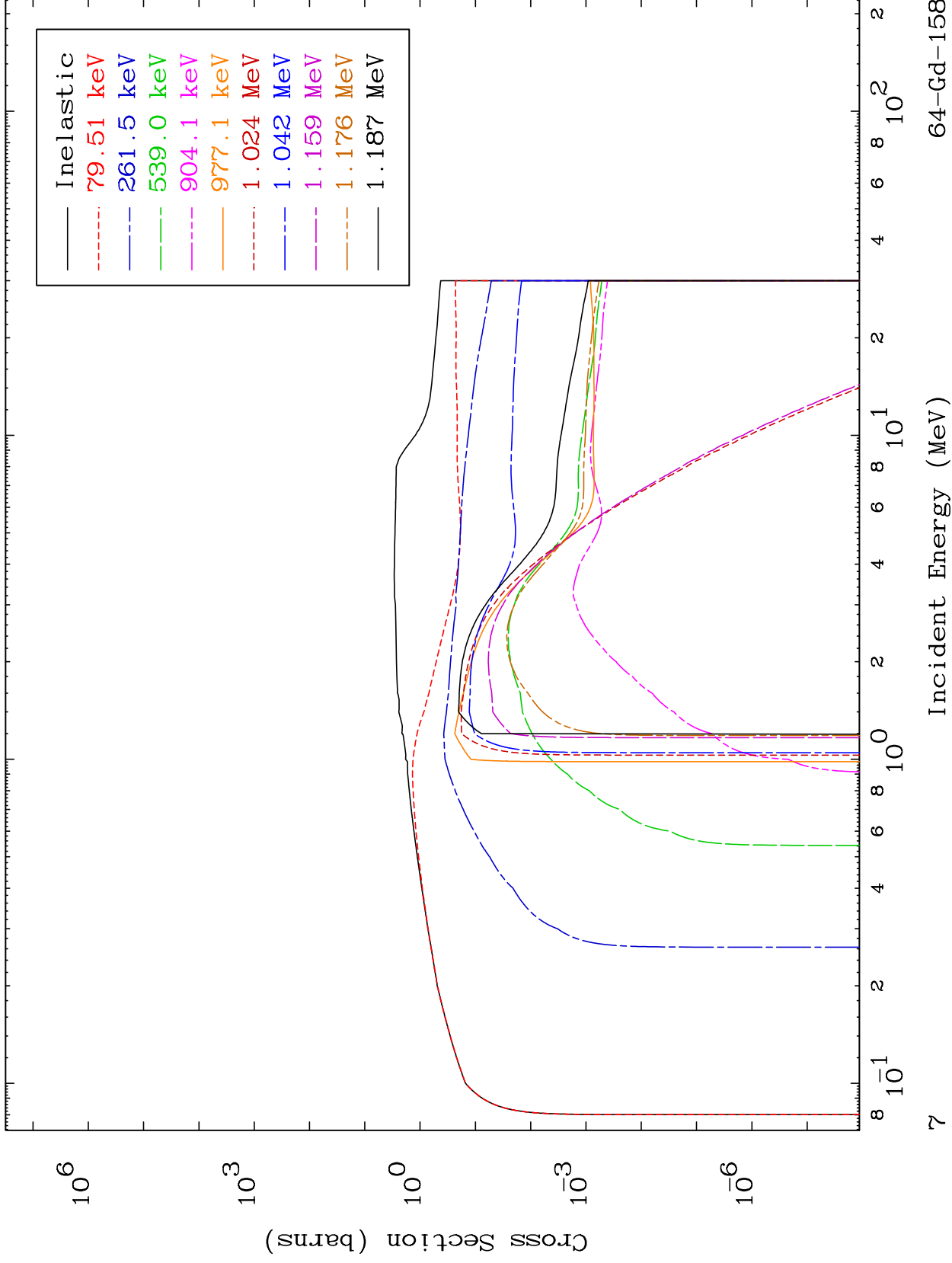




MAT 6443

(n,n') Level  
293 Kelvin Cross Sections

64-Gd-158



64-Gd-158

Incident Energy (MeV)

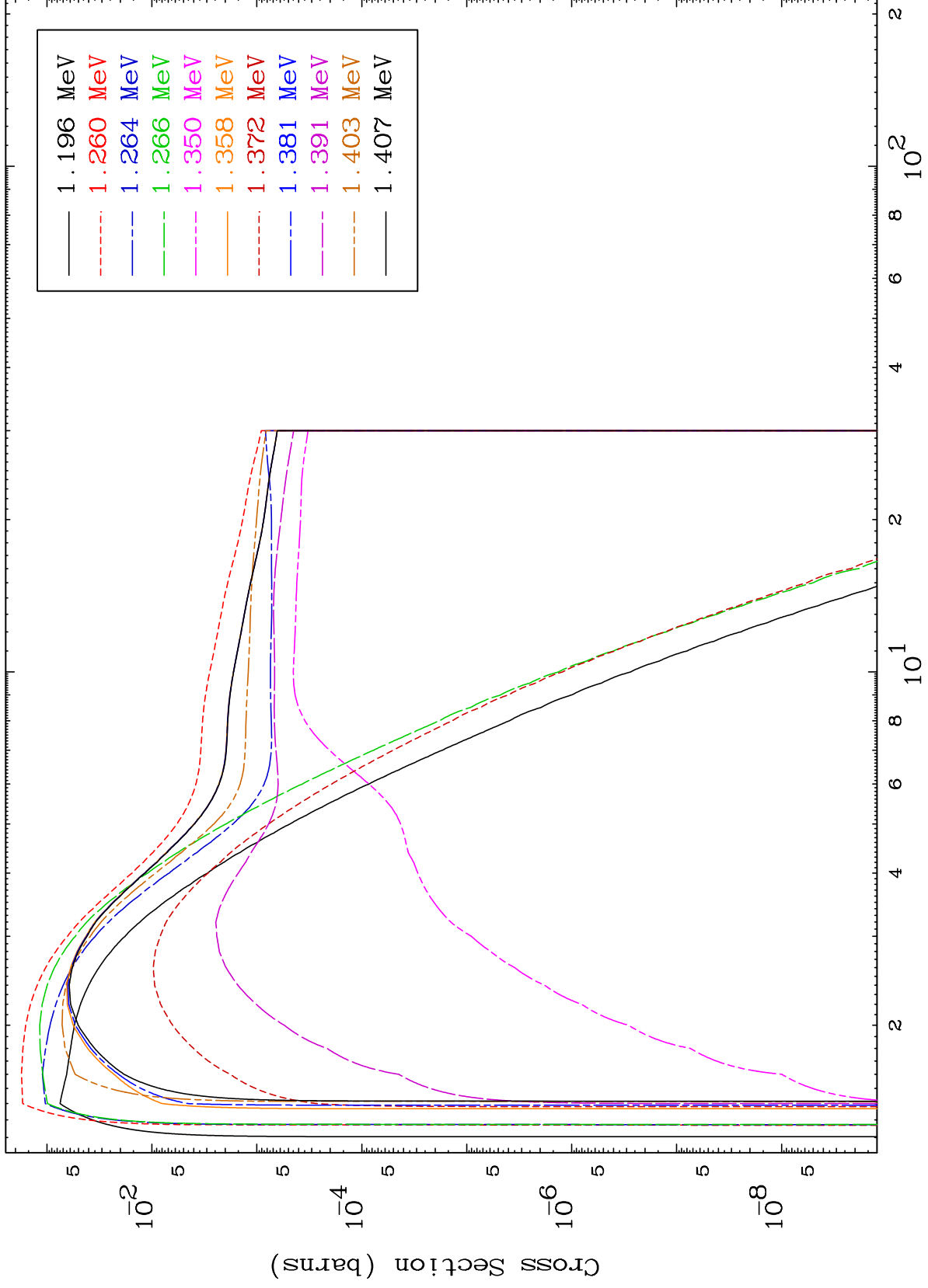
7



MAT 6443

(n,n') Level  
293 Kelvin Cross Sections

64-Gd-158



8

Incident Energy (MeV)

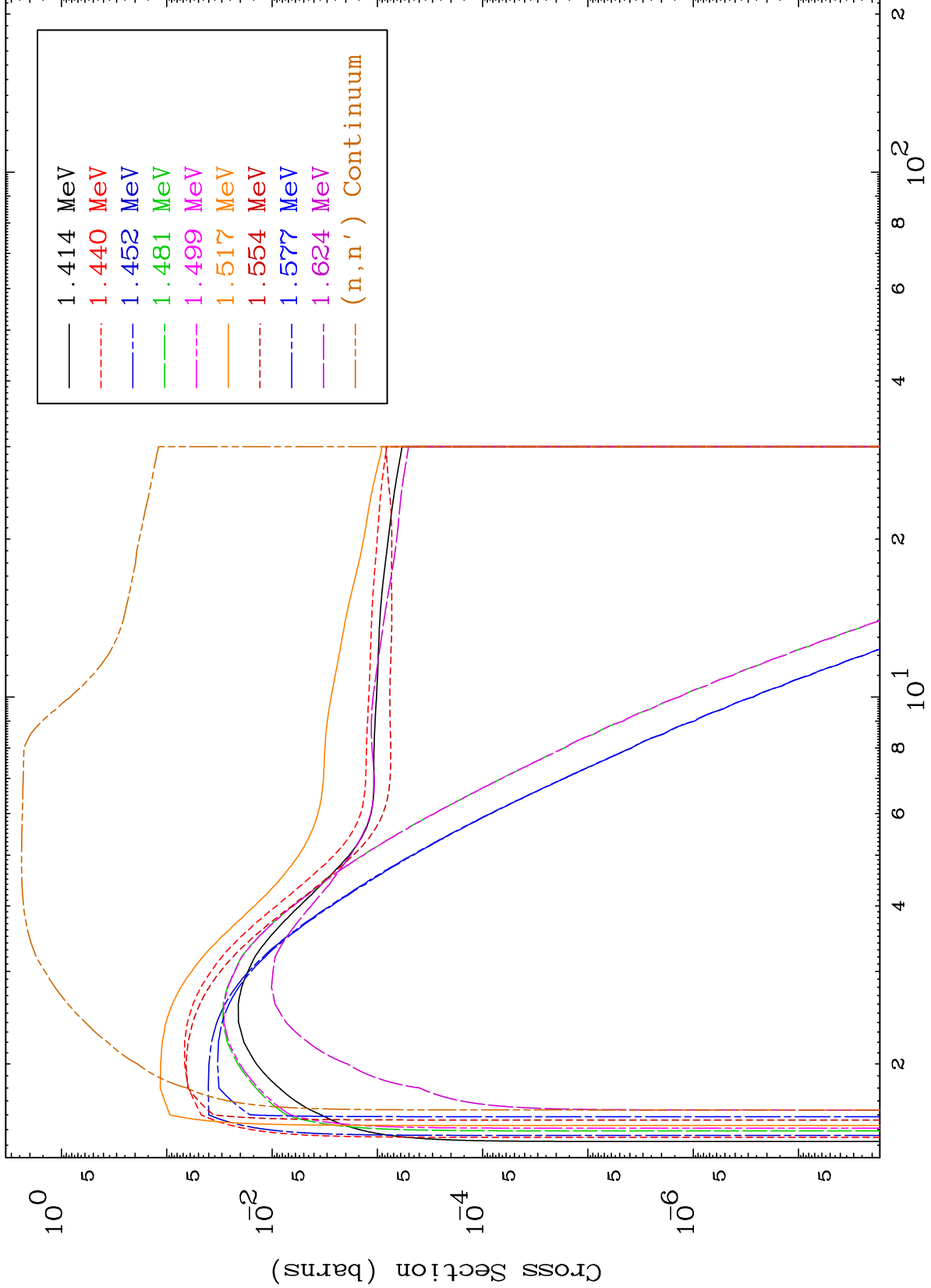
64-Gd-158

MAT 6443

(n,n') Level

64-Gd-158

293 Kelvin Cross Sections



9

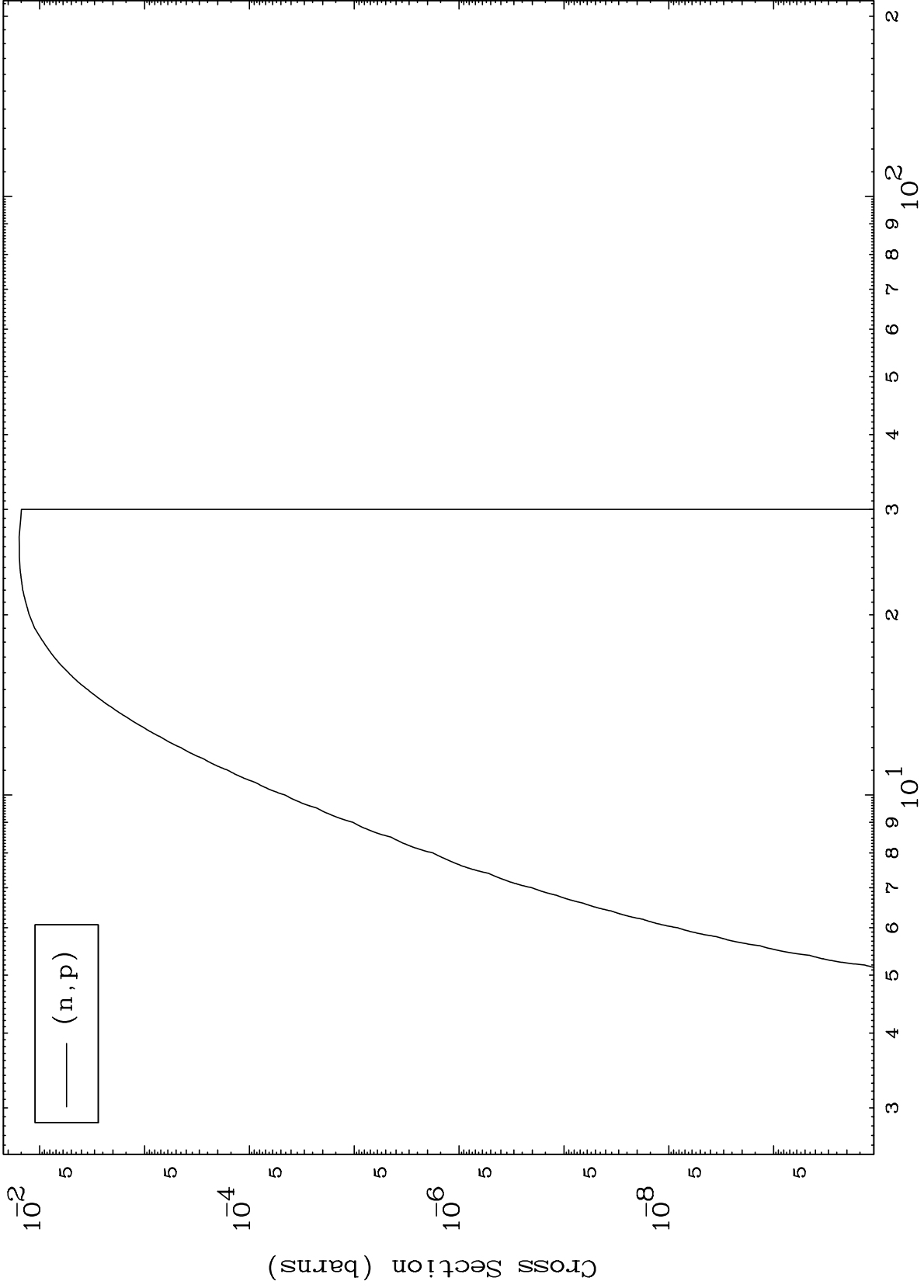
Incident Energy (MeV)

64-Gd-158

MAT 6443

(n,p) Levels  
293 Kelvin Cross Sections

64-Gd-158



10

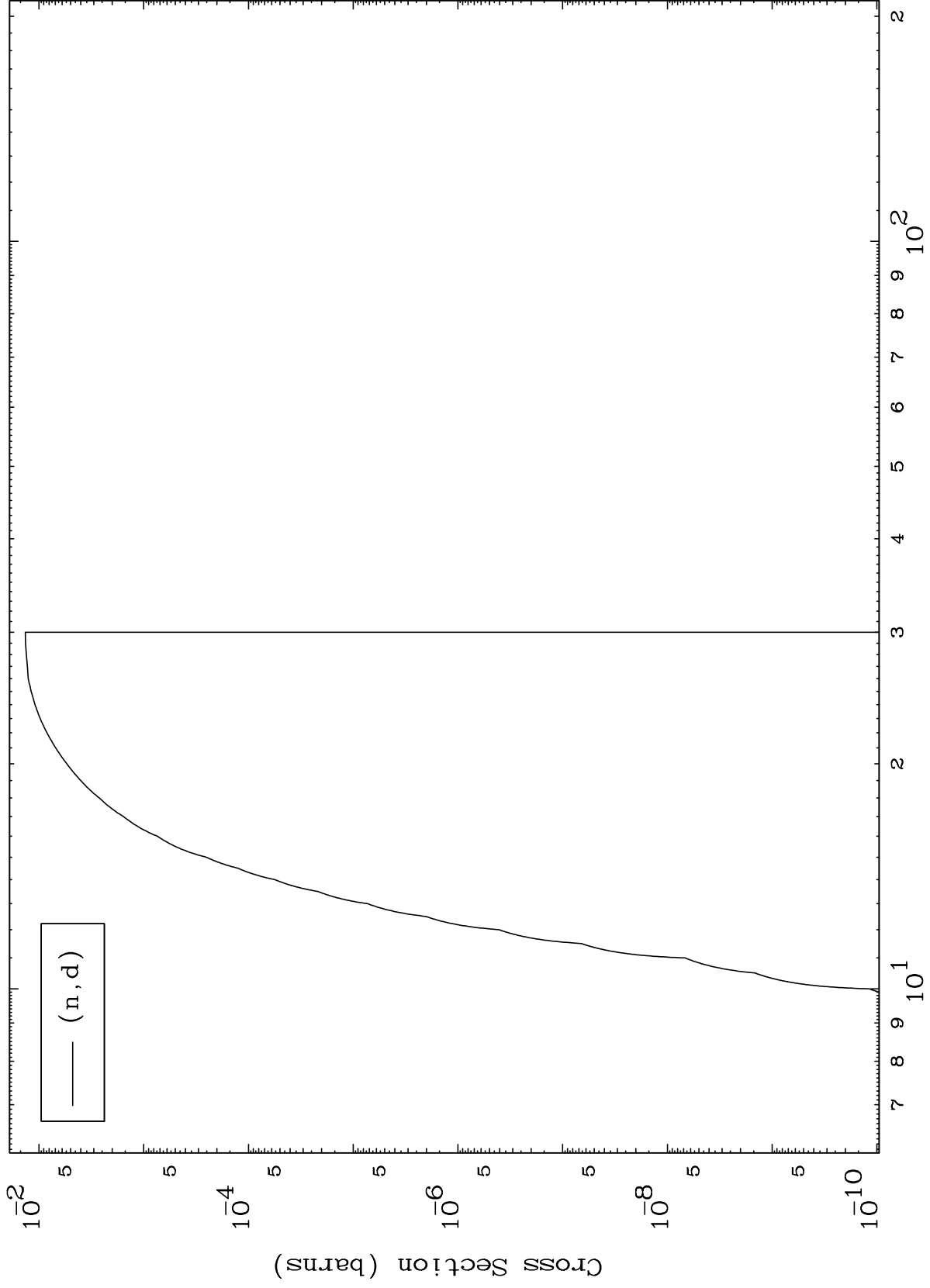
Incident Energy (MeV)

64-Gd-158

MAT 6443

(n,d) Levels  
293 Kelvin Cross Sections

64-Gd-158



11

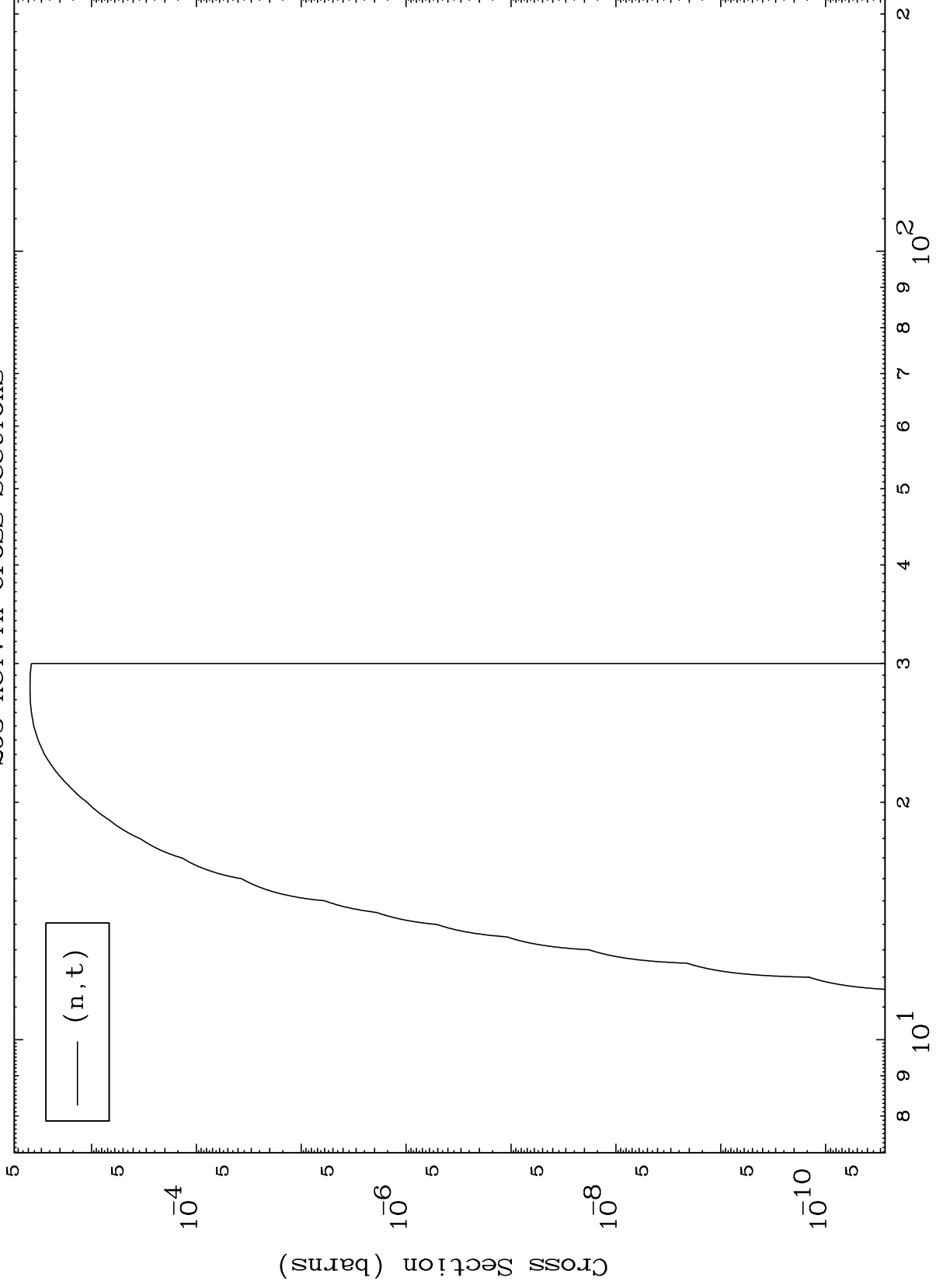
Incident Energy (MeV)

64-Gd-158

MAT 6443

(n,t) Levels  
293 Kelvin Cross Sections

64-Gd-158



12

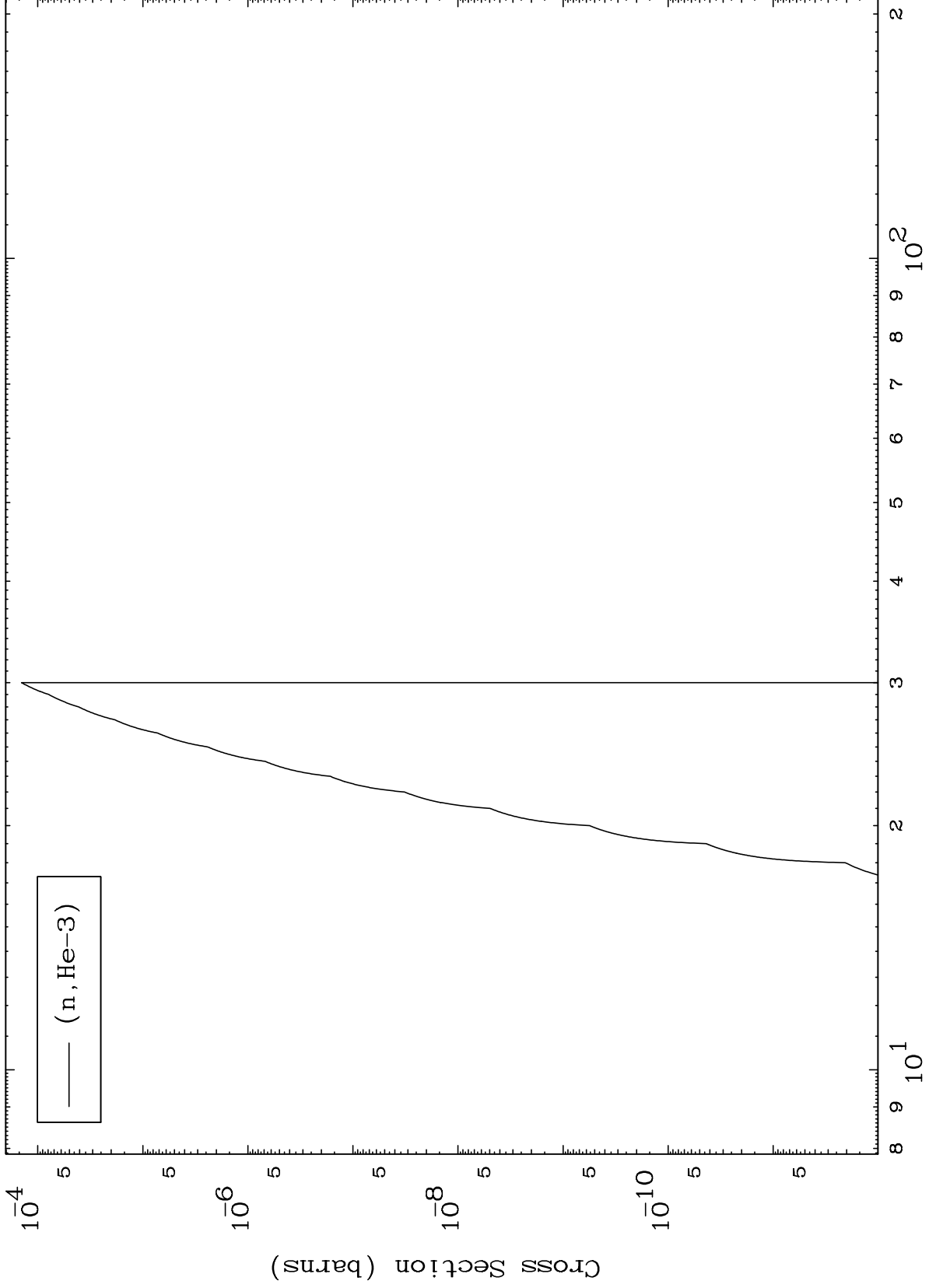
Incident Energy (MeV)

64-Gd-158

MAT 6443

(n,He3) Levels  
293 Kelvin Cross Sections

64-Gd-158



13

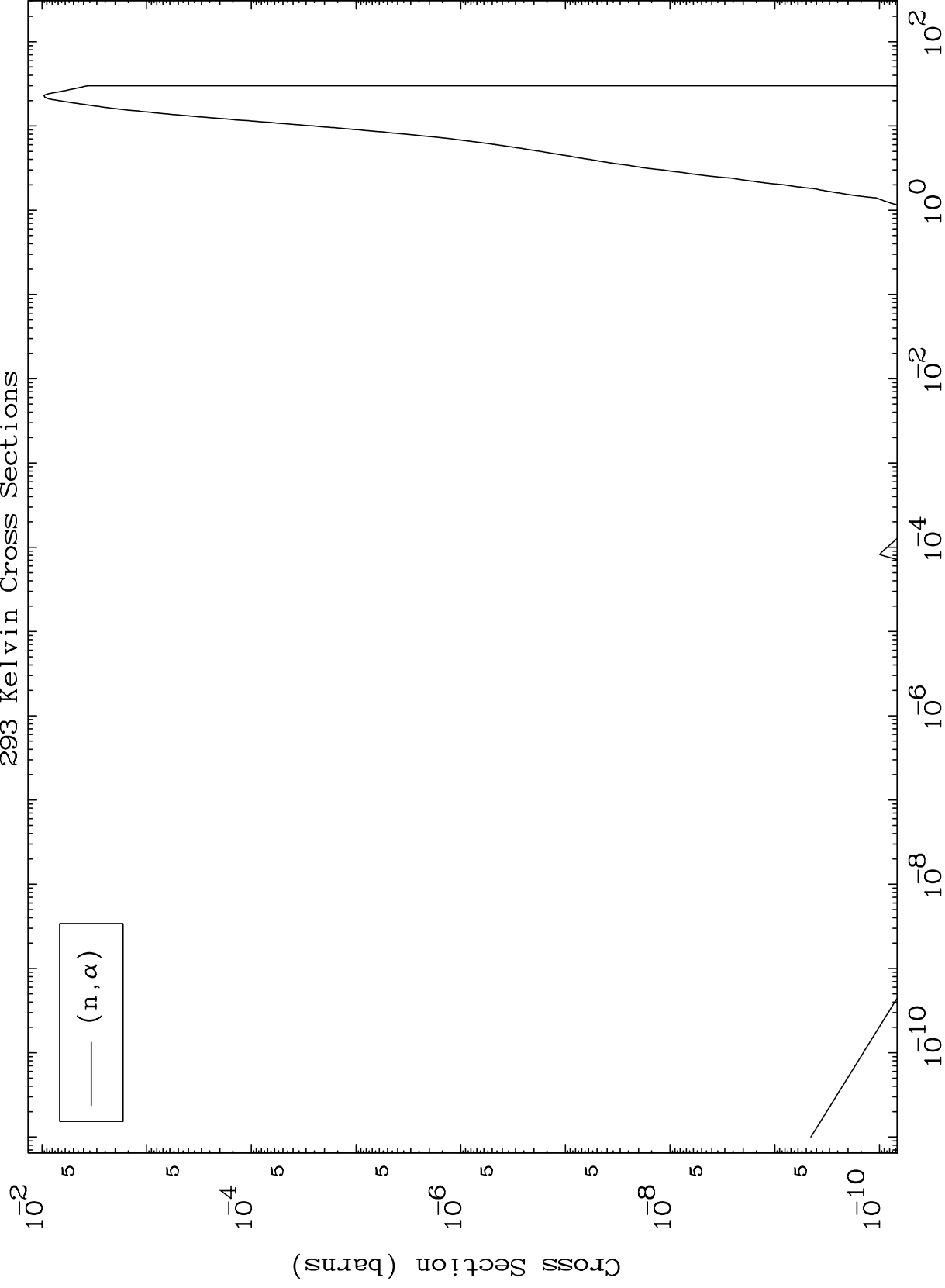
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

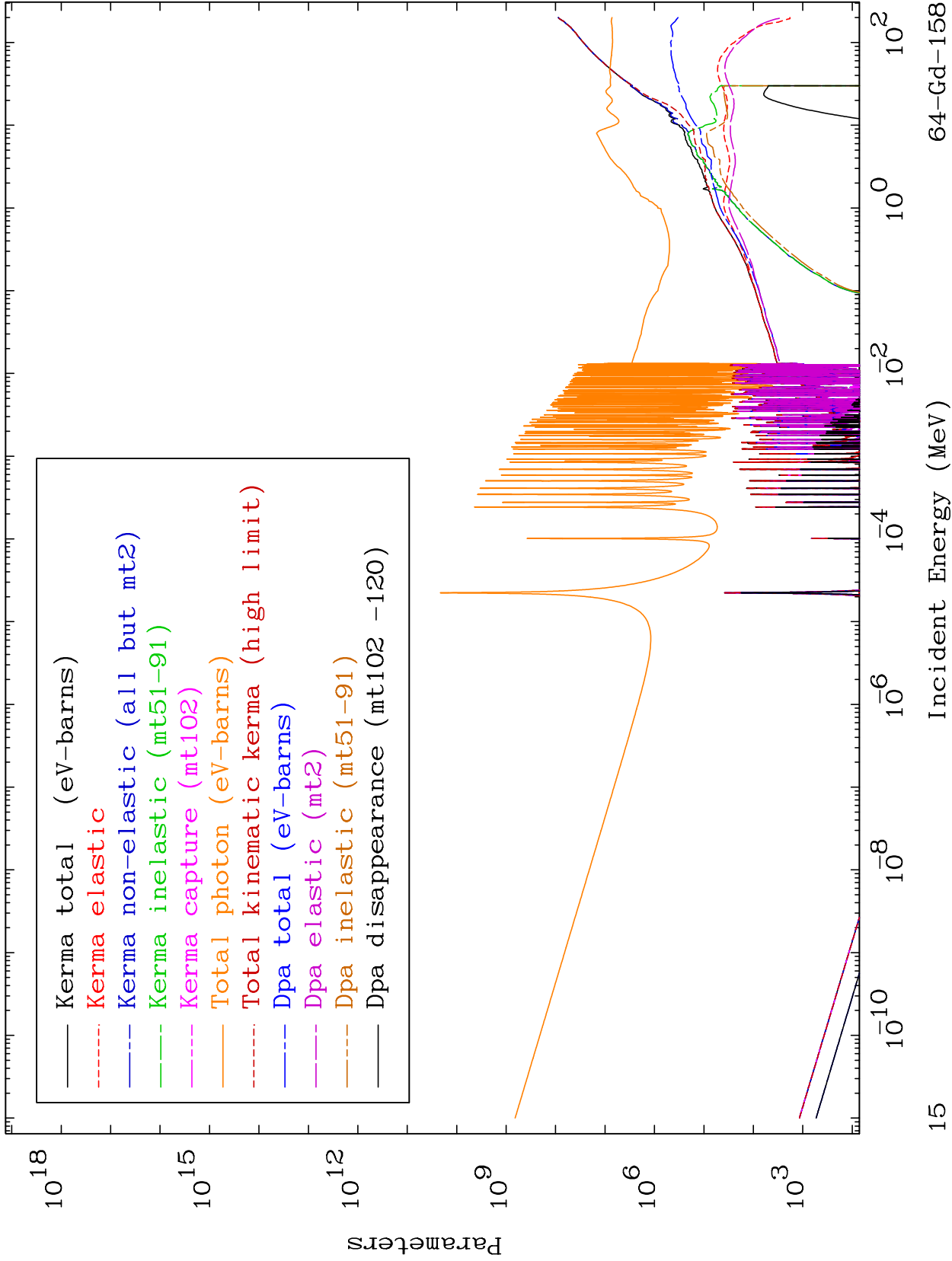
64-Gd-158



64-Gd-158

Incident Energy (MeV)

14

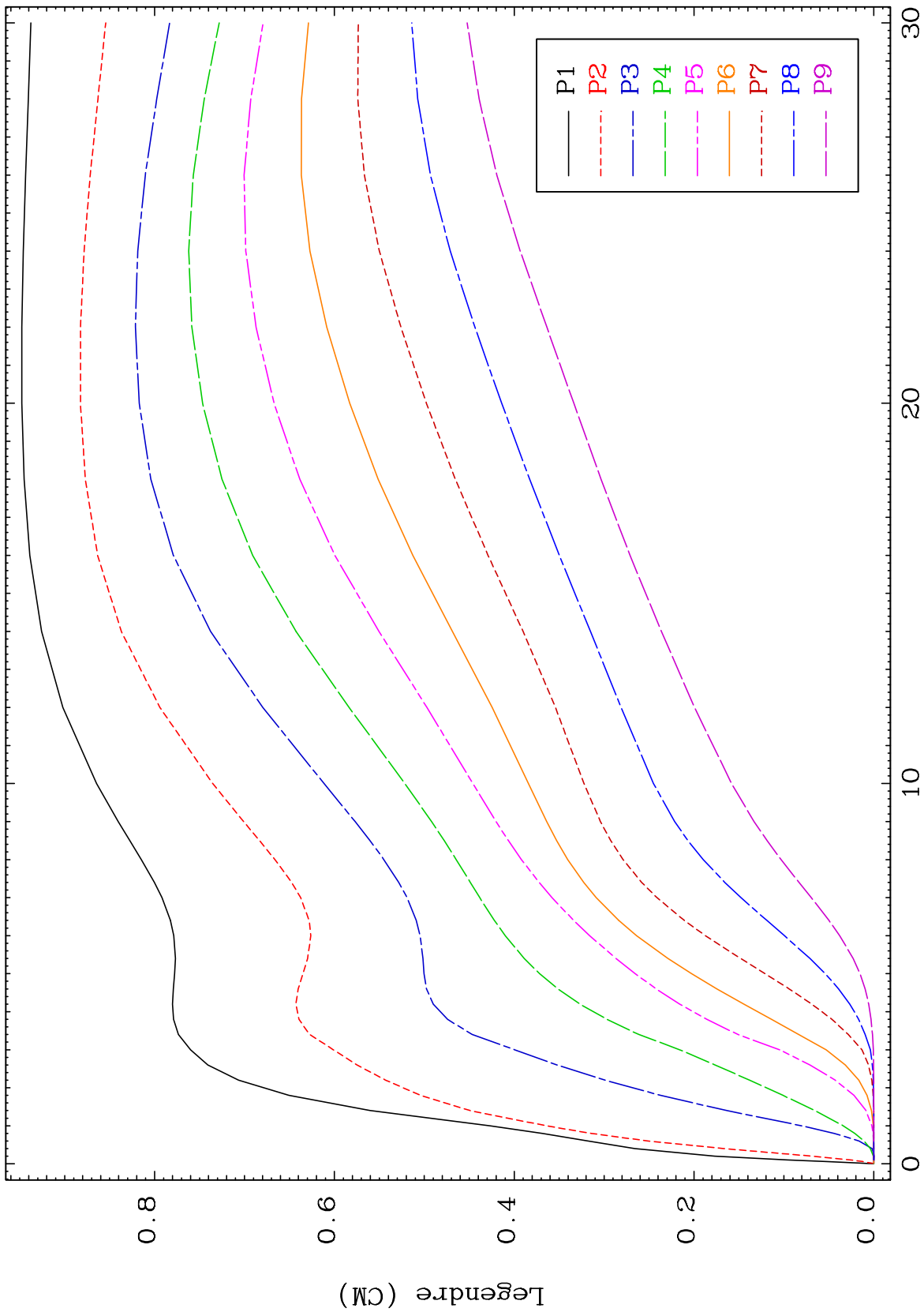




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64-Gd-158

Elastic Legendre Coefficients



64-Gd-158

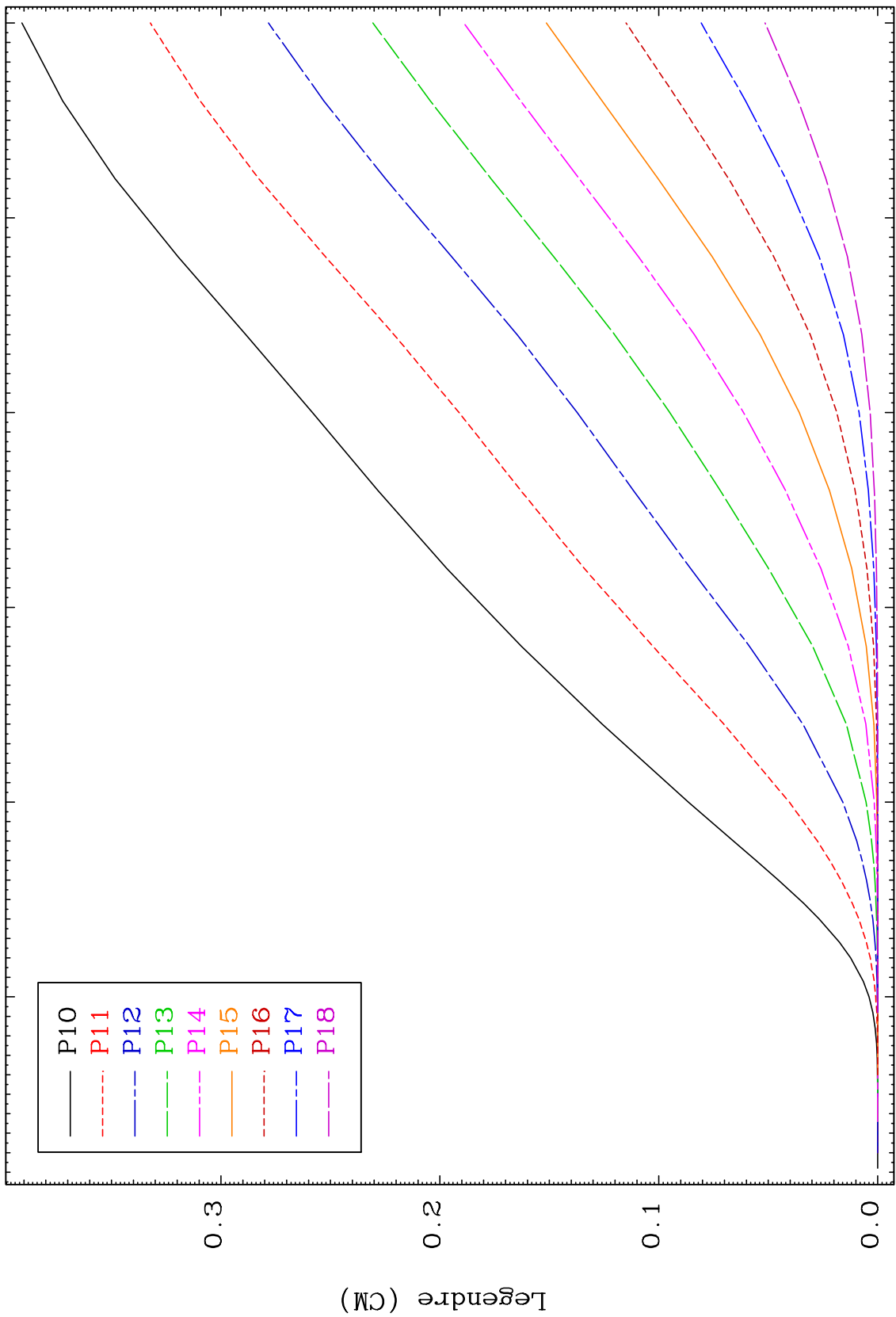
Incident Energy (MeV)

16

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Elastic Legendre Coefficients

64-Gd-158



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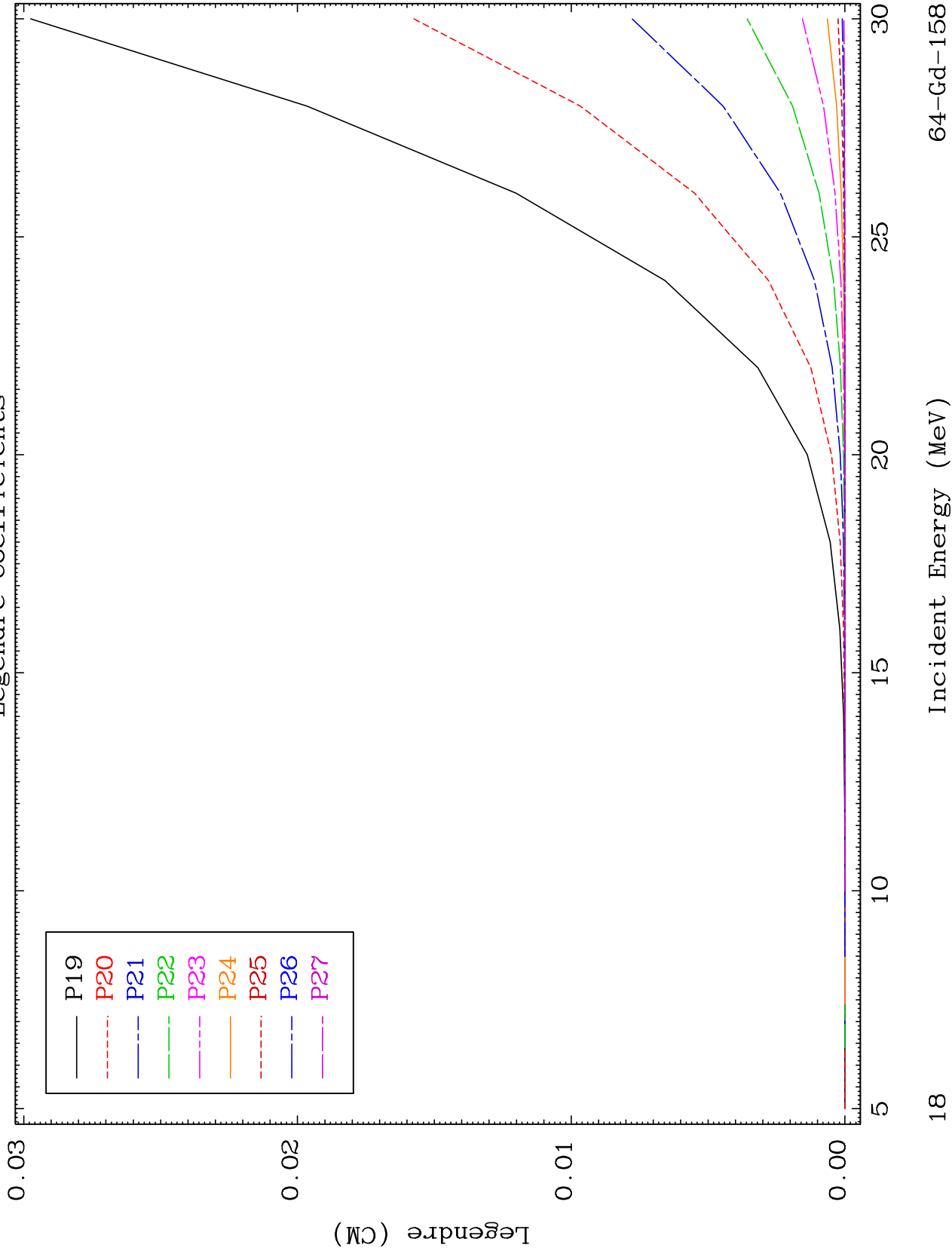
64-Gd-158

Incident Energy (MeV)

MAT 6443

Elastic  
Legendre Coefficients

64-Gd-158



18

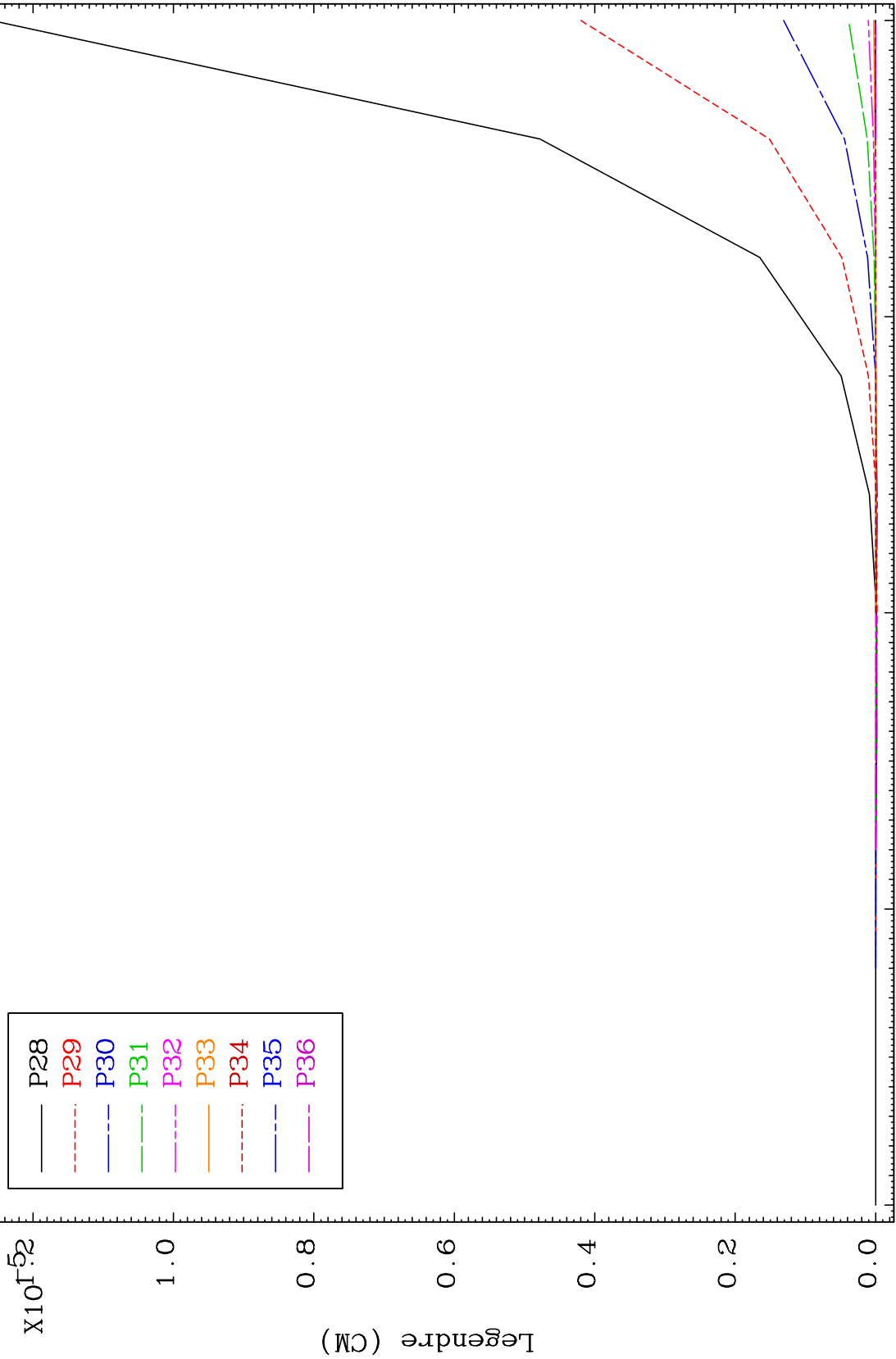
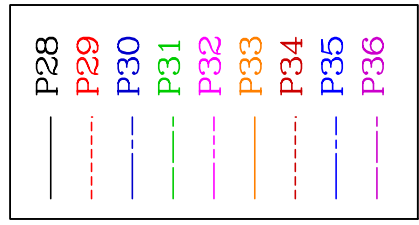
Incident Energy (MeV)

64-Gd-158

MAT 6443

### Elastic Legendre Coefficients

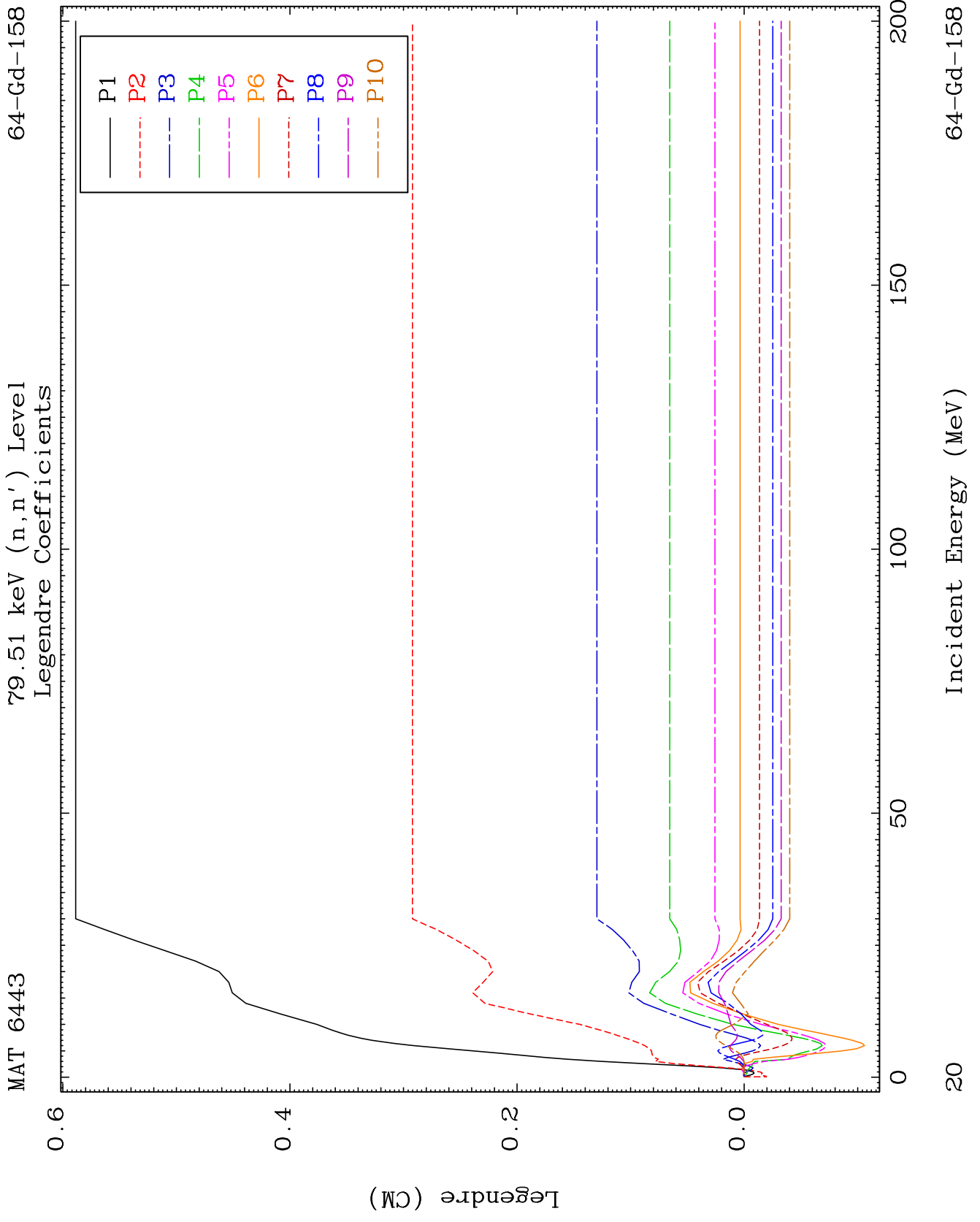
64-Gd-158



19

Incident Energy (MeV)

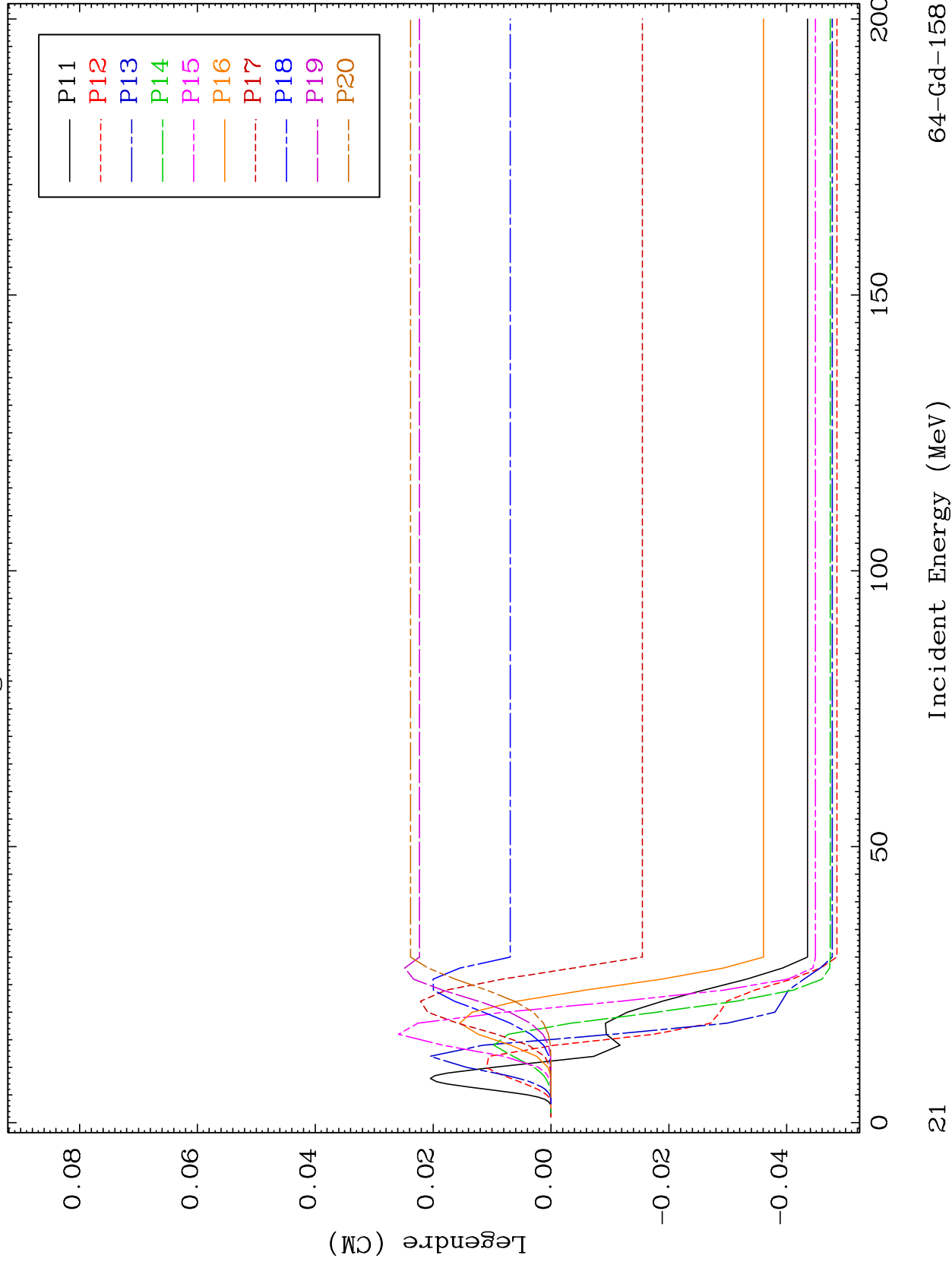
64-Gd-158



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79.51 keV (n,n') Level  
Legendre Coefficients

64-Gd-158



21

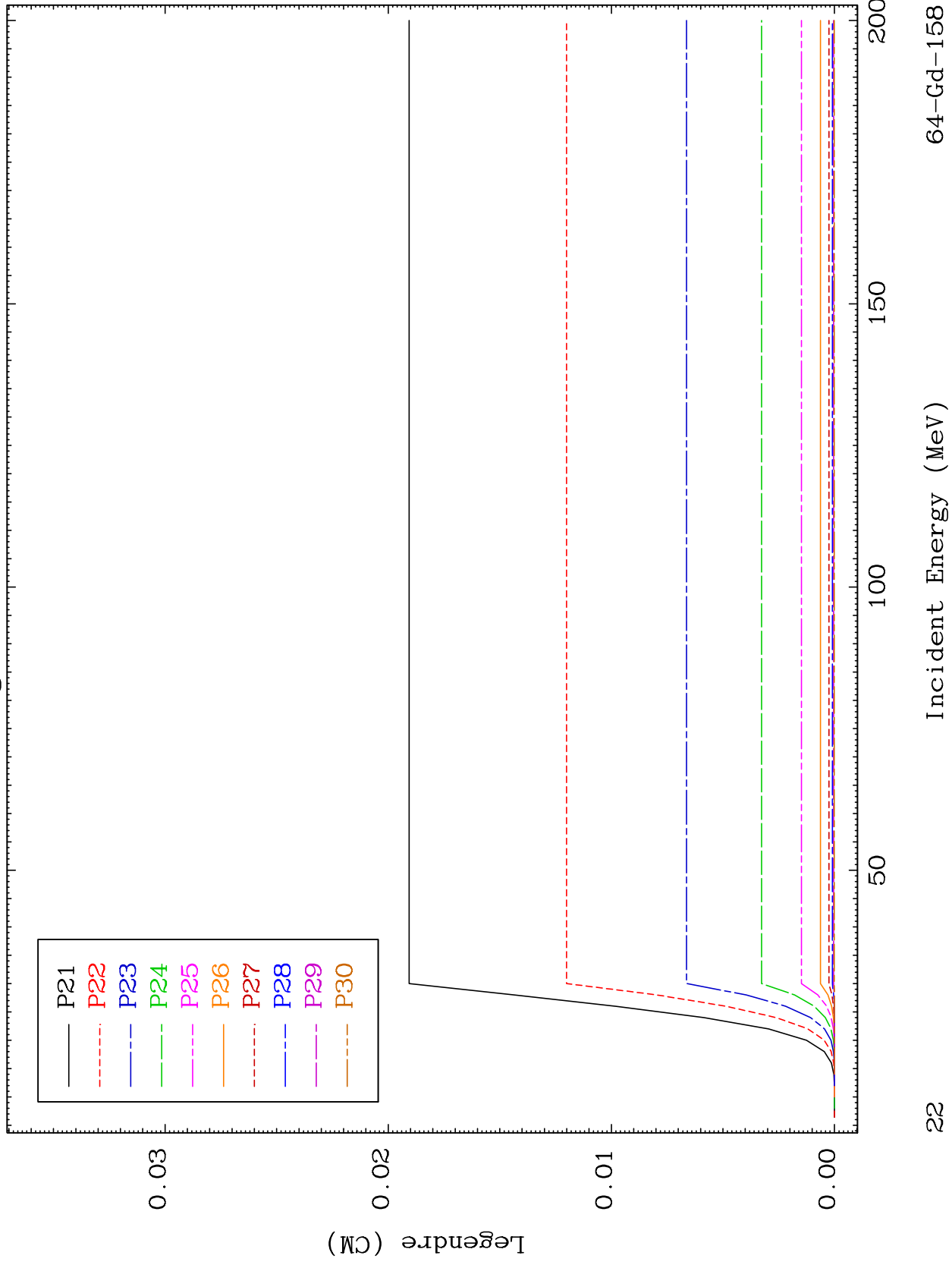
Incident Energy (MeV)

64-Gd-158

MAT 6443

79.51 keV (n,n') Level  
Legendre Coefficients

64-Gd-158



22

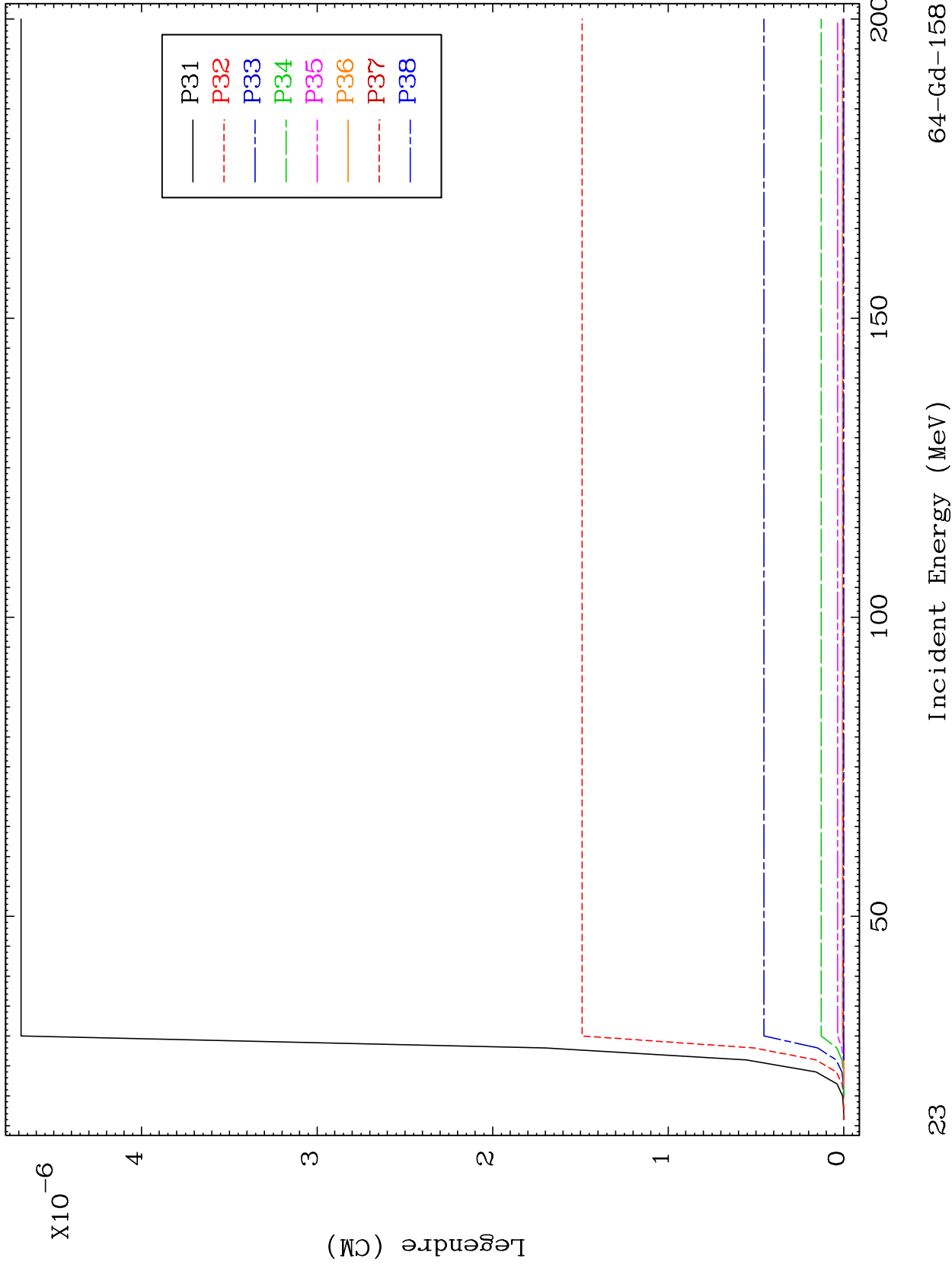
Incident Energy (MeV)

64-Gd-158

MAT 6443

79.51 keV (n,n') Level  
Legendre Coefficients

64-Gd-158



23

Incident Energy (MeV)

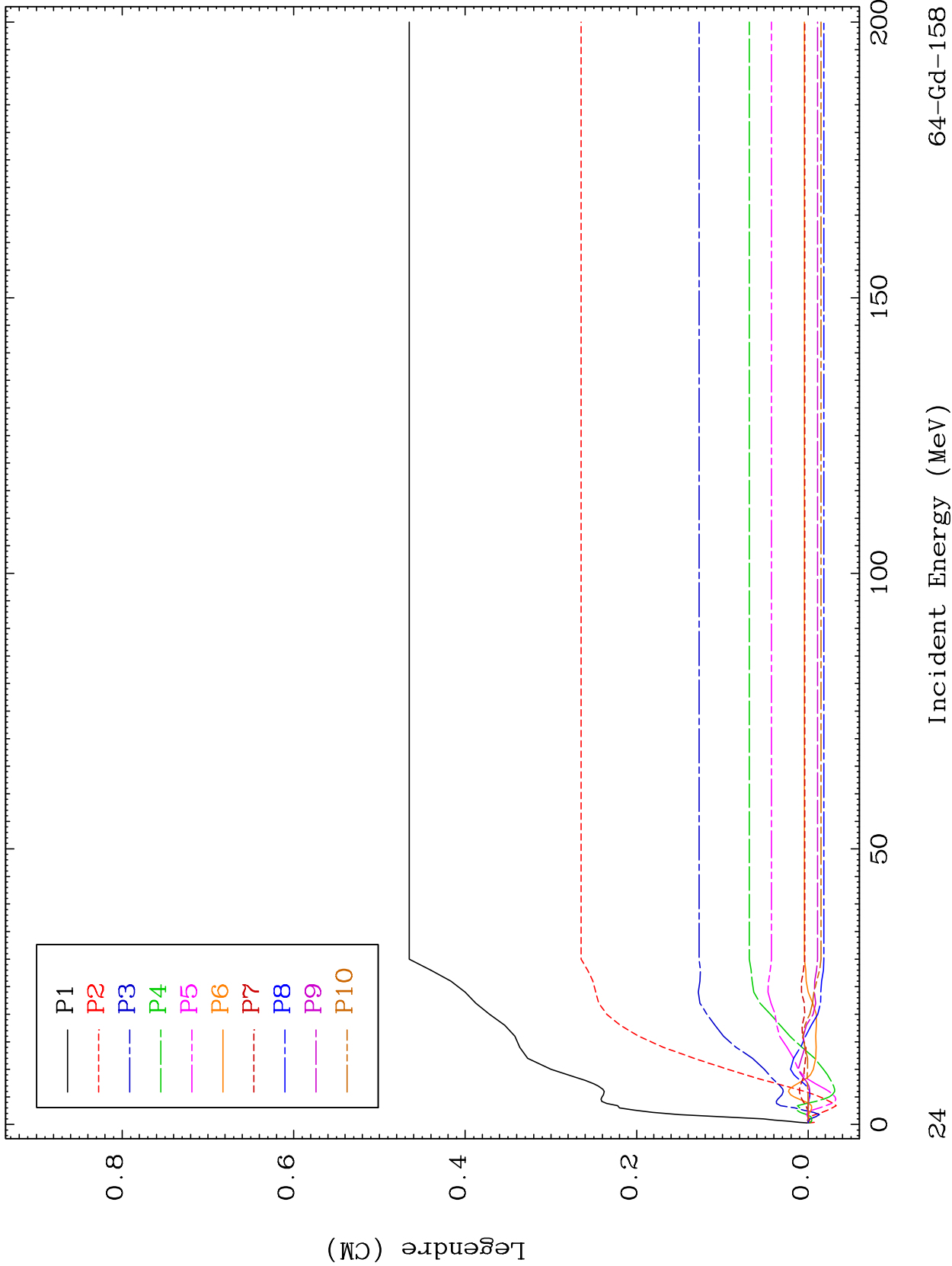
64-Gd-158



MAT 6443

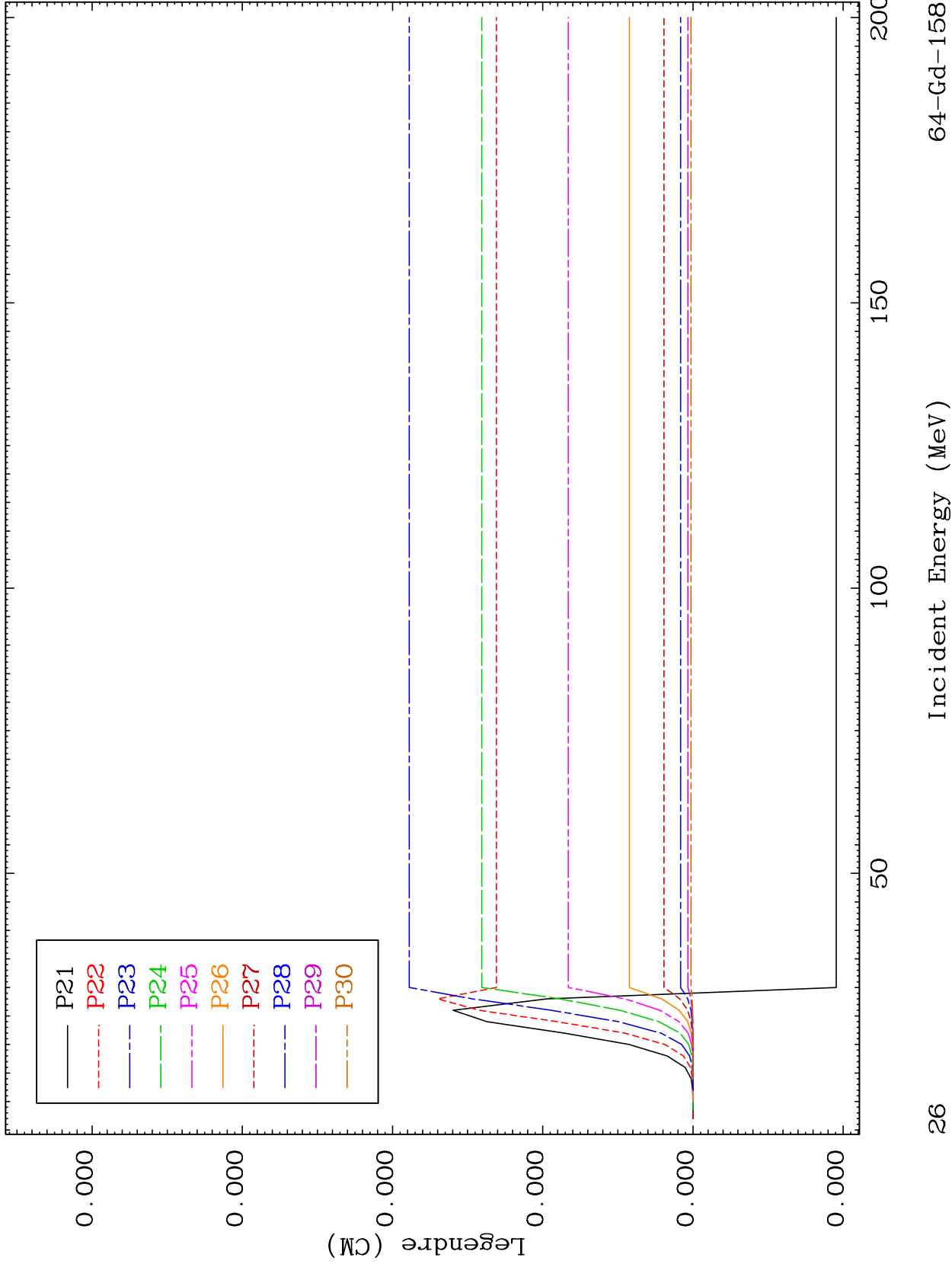
261.5 keV (n,n') Level  
Legendre Coefficients

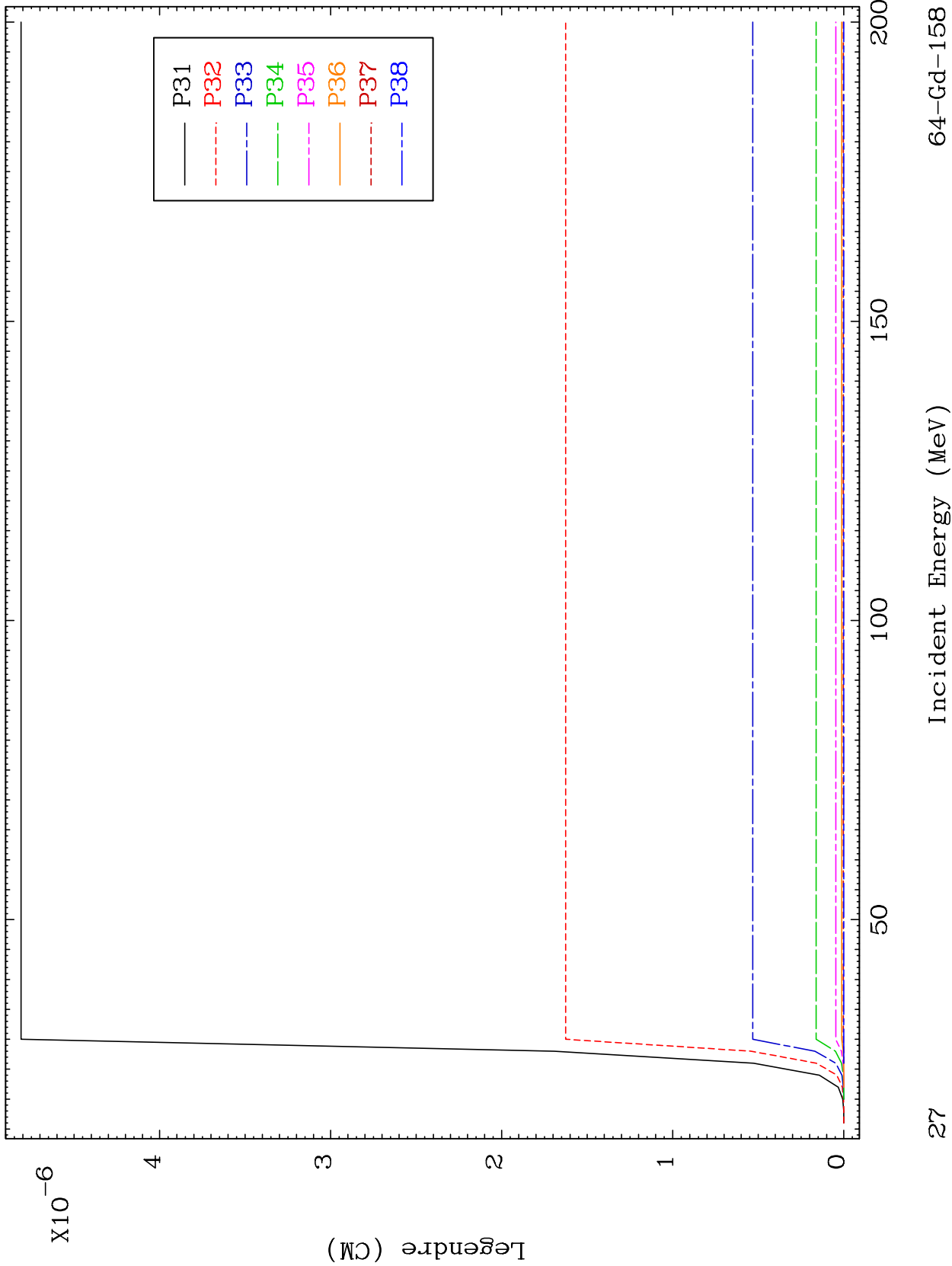
64-Gd-158



24



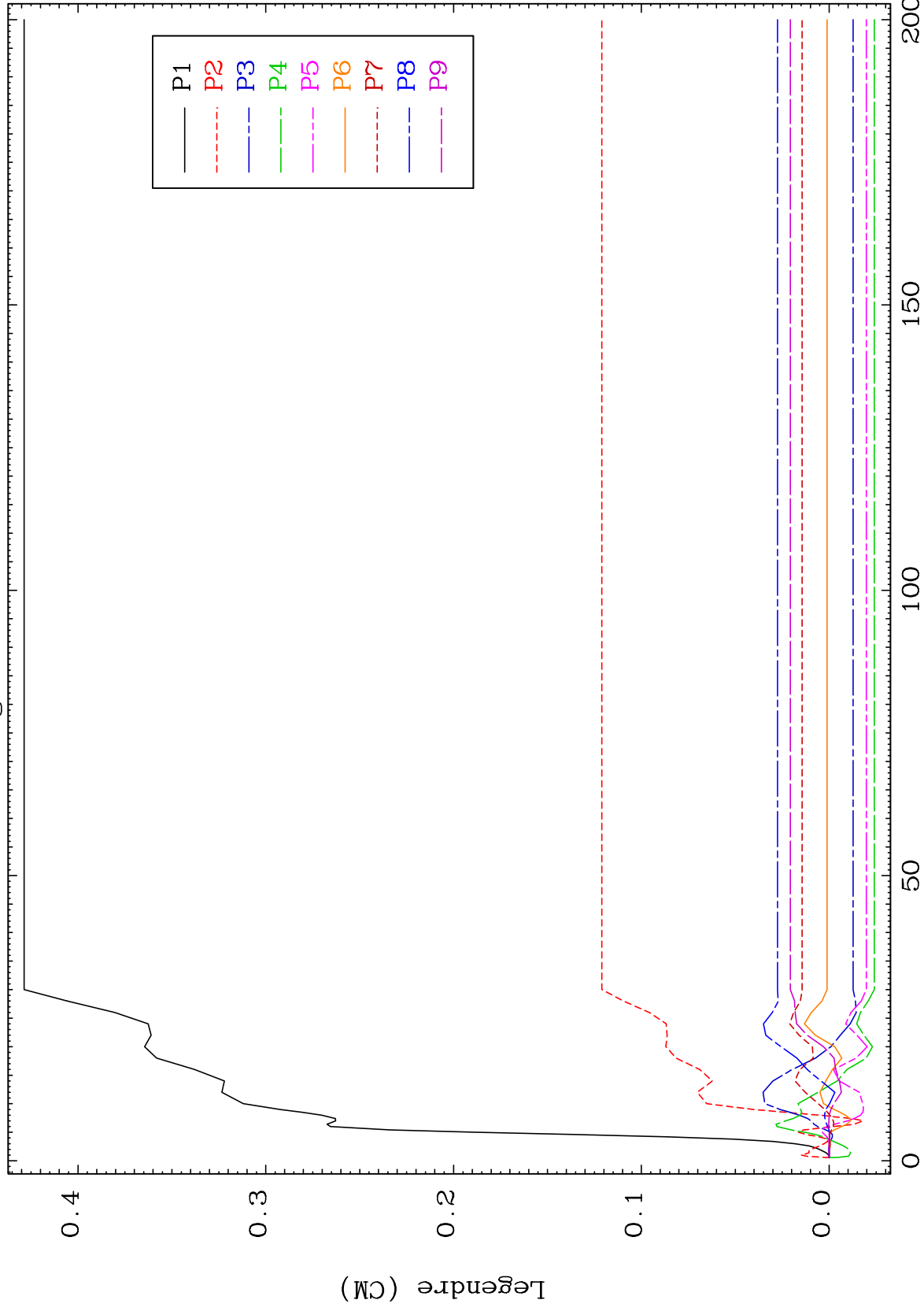




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539.0 keV (n,n') Level  
Legendre Coefficients

64-Gd-158



28

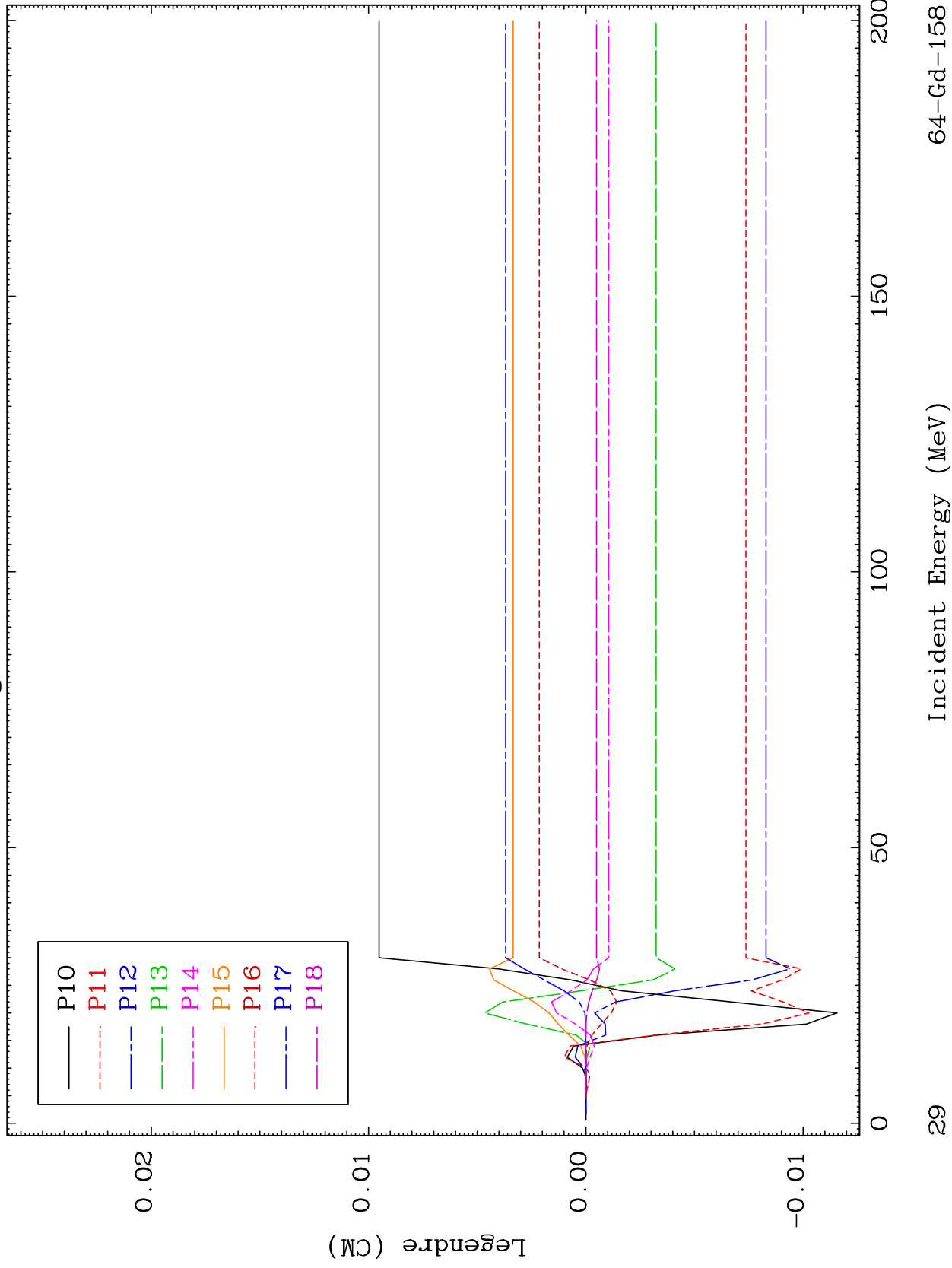
Incident Energy (MeV)

64-Gd-158

MAT 6443

539.0 keV (n,n') Level  
Legendre Coefficients

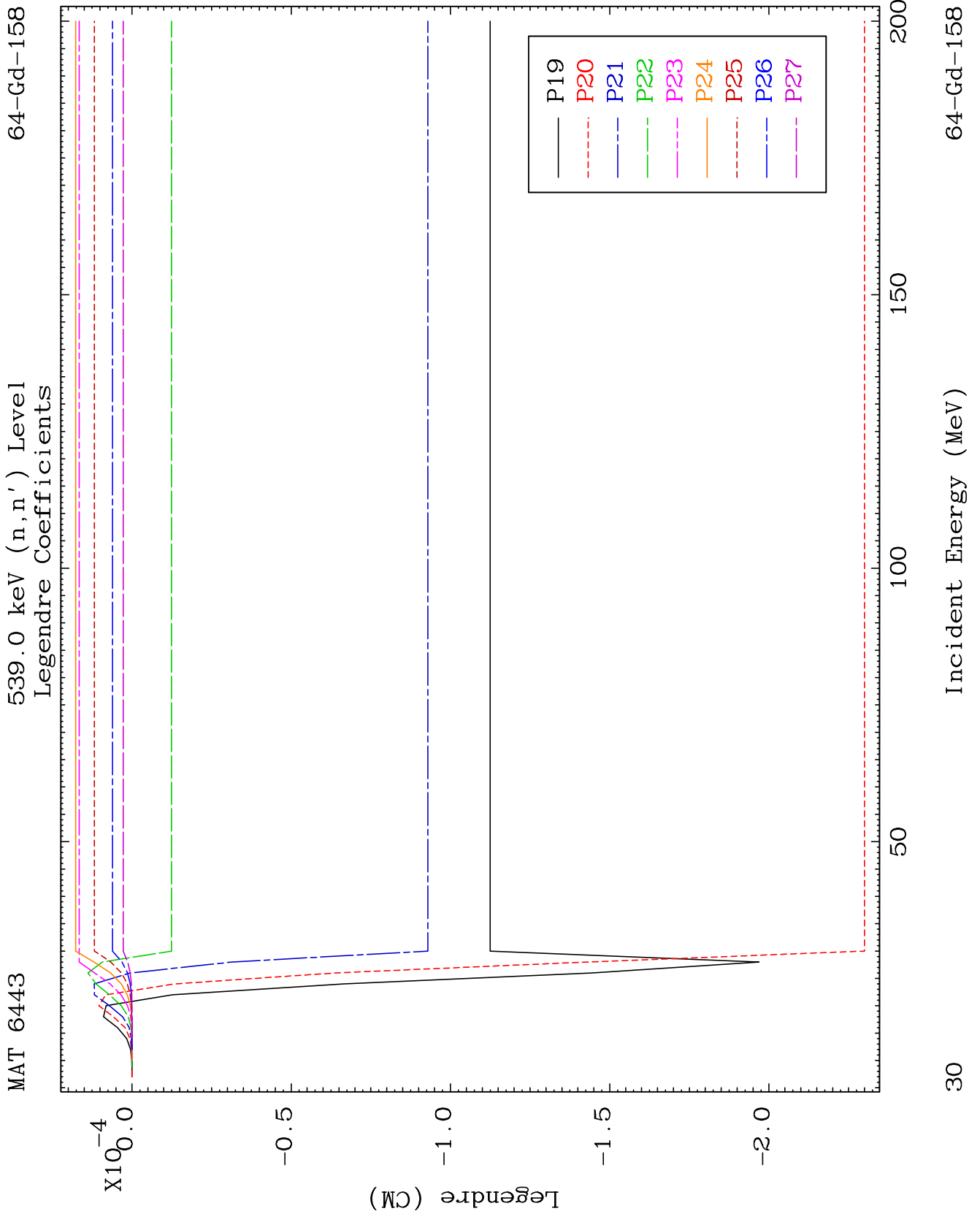
64-Gd-158



29

Incident Energy (MeV)

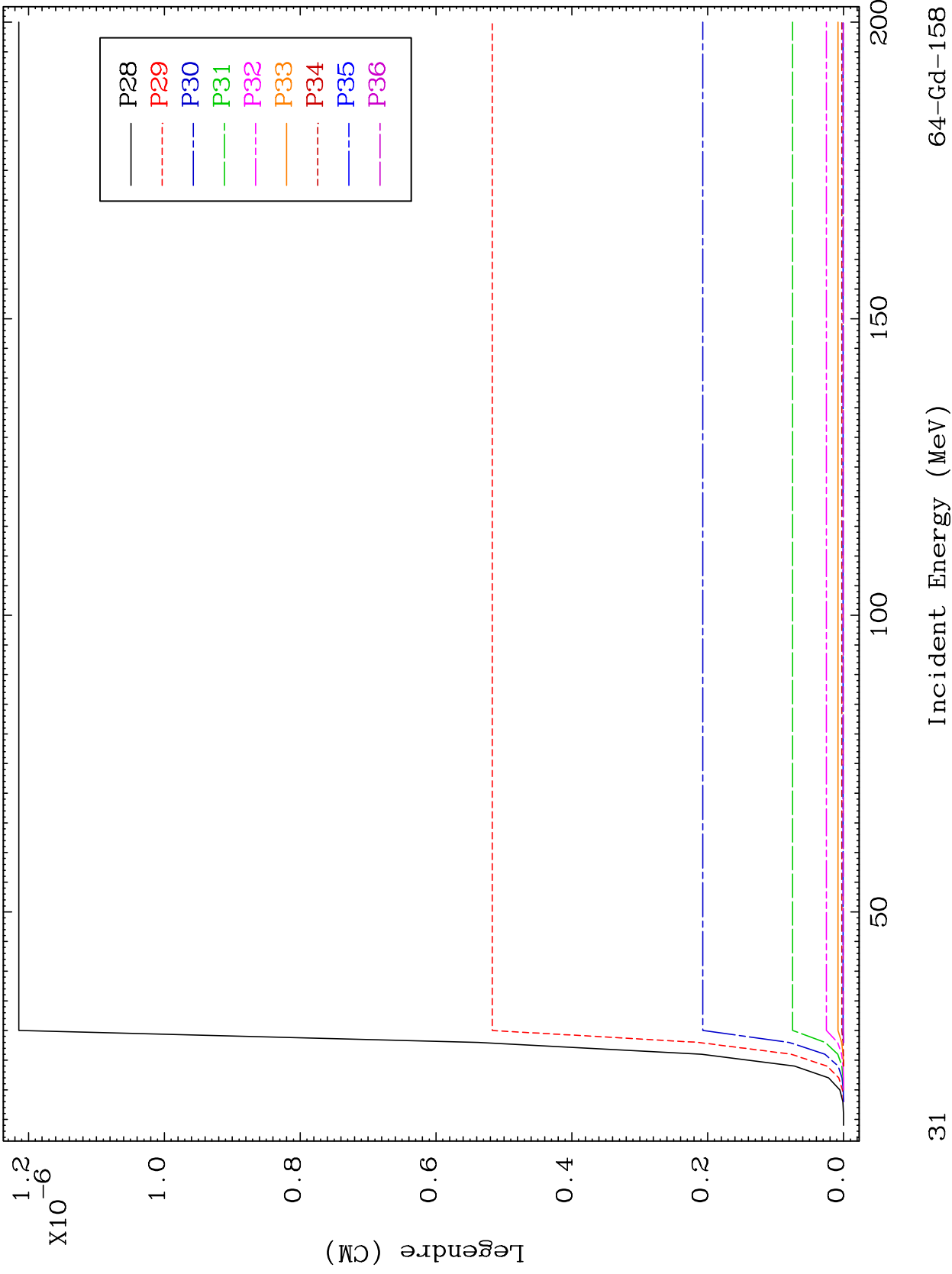
64-Gd-158



MAT 6443

539.0 keV (n,n') Level  
Legendre Coefficients

64-Gd-158



31

Incident Energy (MeV)

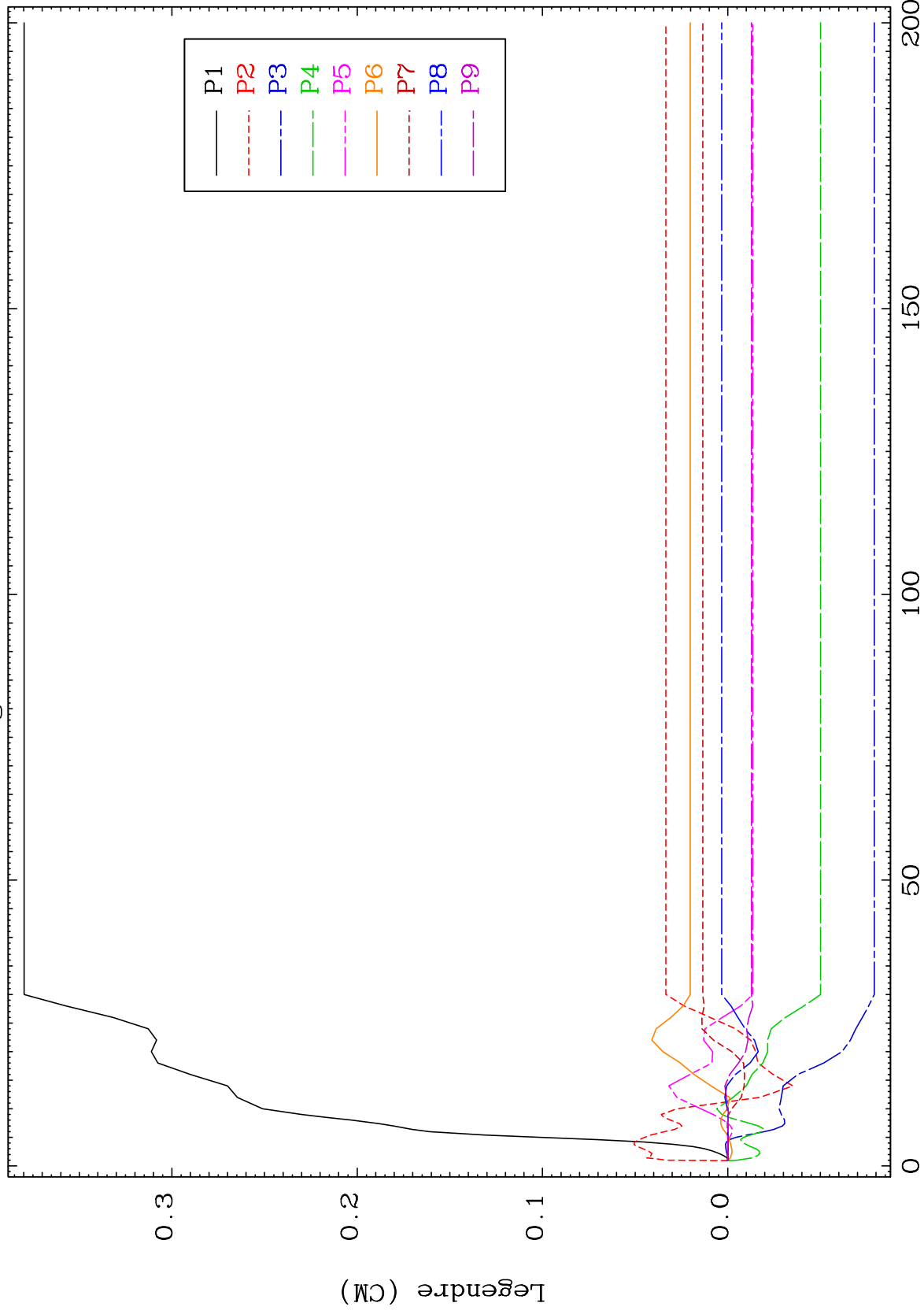
64-Gd-158



MAT 6443

904.1 keV (n,n') Level  
Legendre Coefficients

64-Gd-158



32

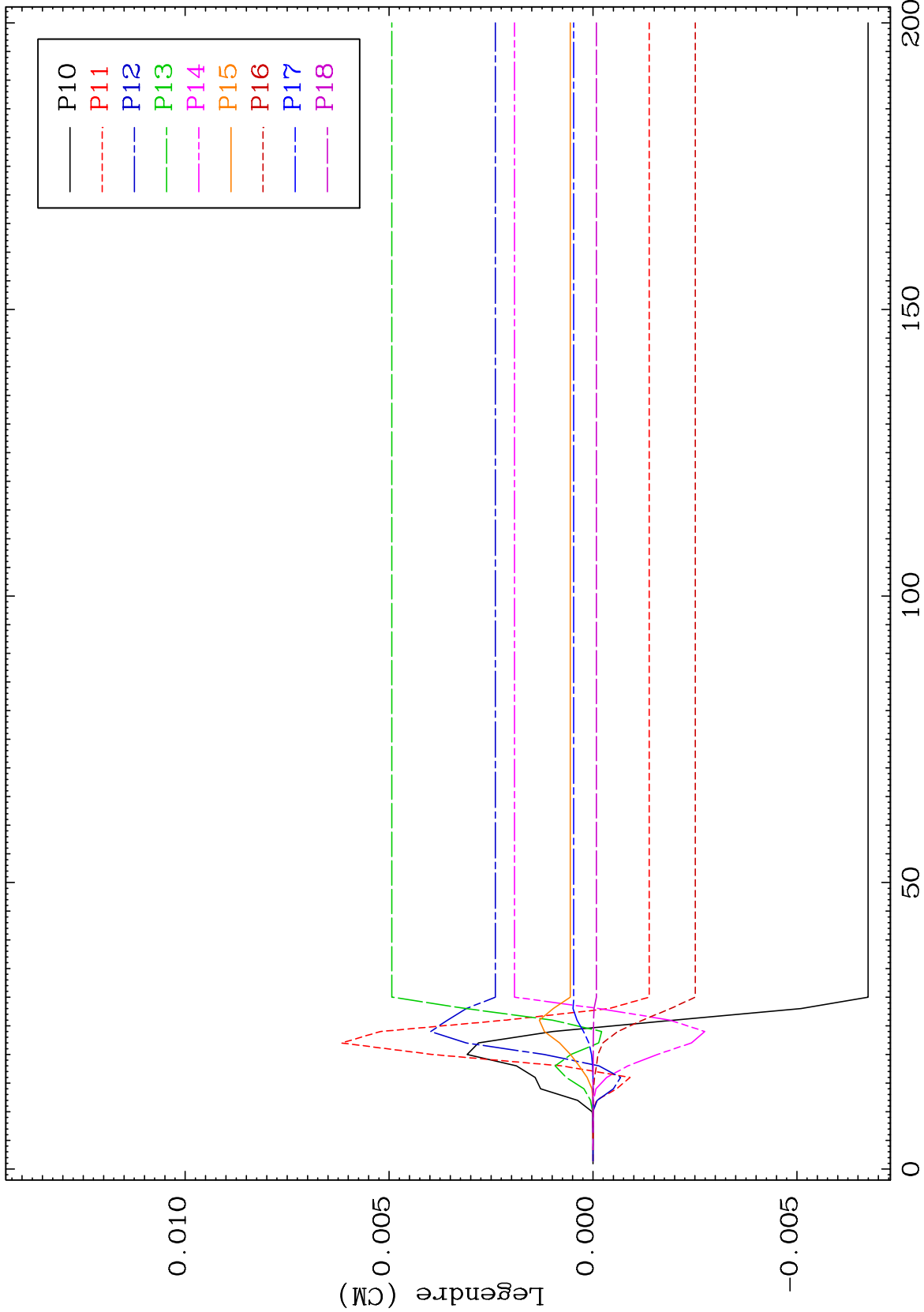
Incident Energy (MeV)

64-Gd-158

MAT 6443

904.1 keV (n,n') Level  
Legendre Coefficients

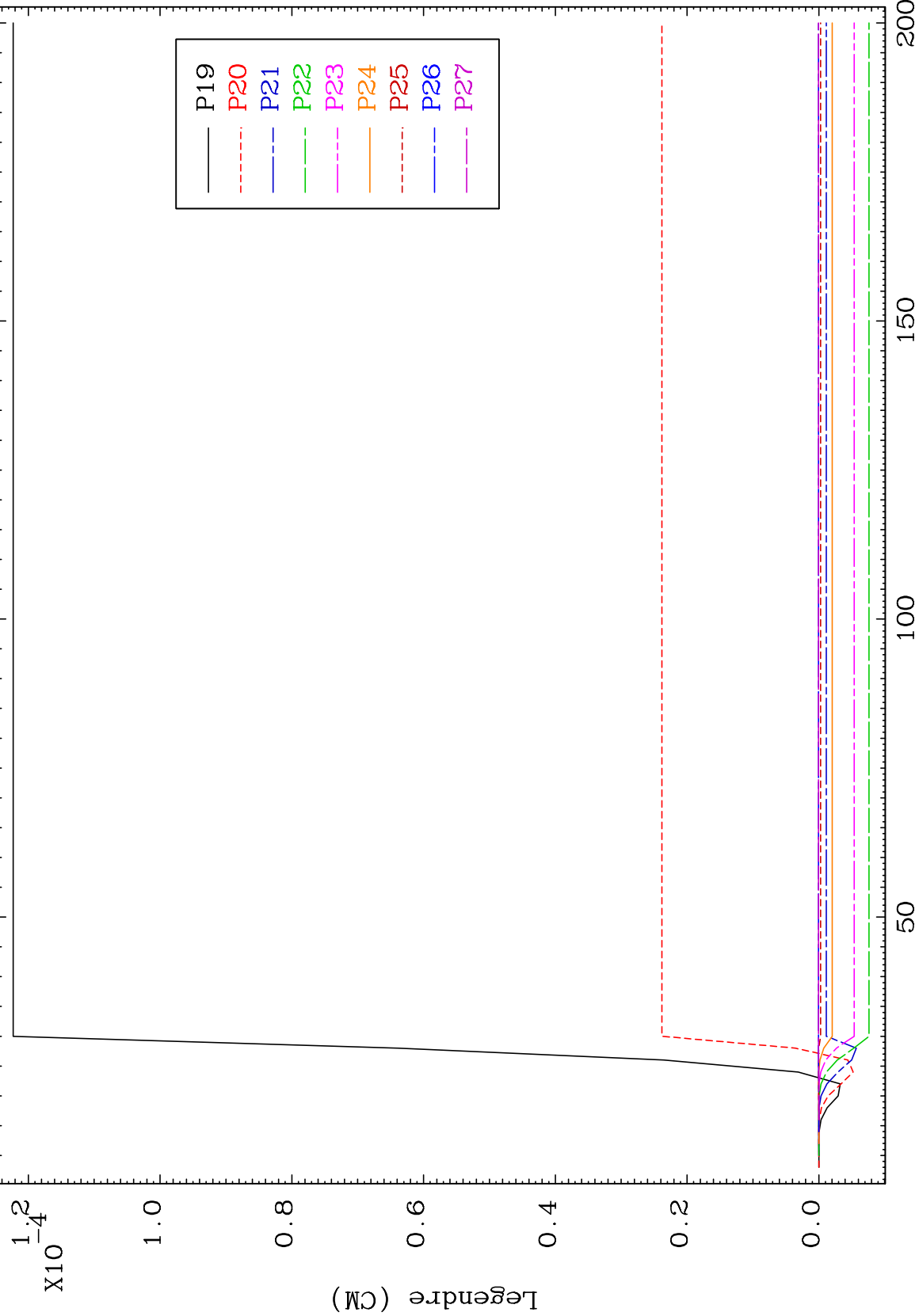
64-Gd-158



MAT 6443

904.1 keV (n, n') Level  
Legendre Coefficients

64-Gd-158



34

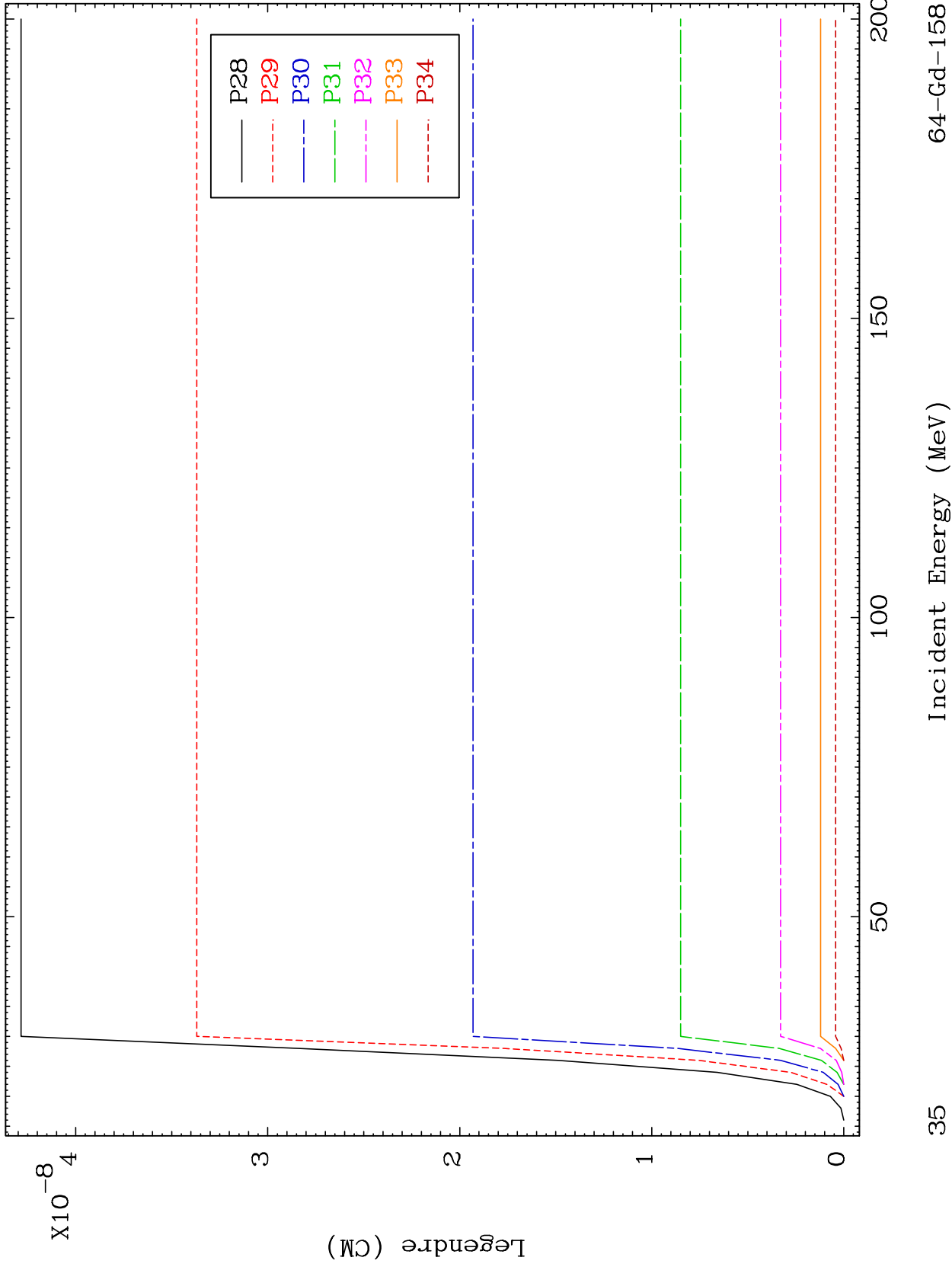
Incident Energy (MeV)

64-Gd-158

MAT 6443

904.1 keV (n,n') Level  
Legendre Coefficients

64-Gd-158



35

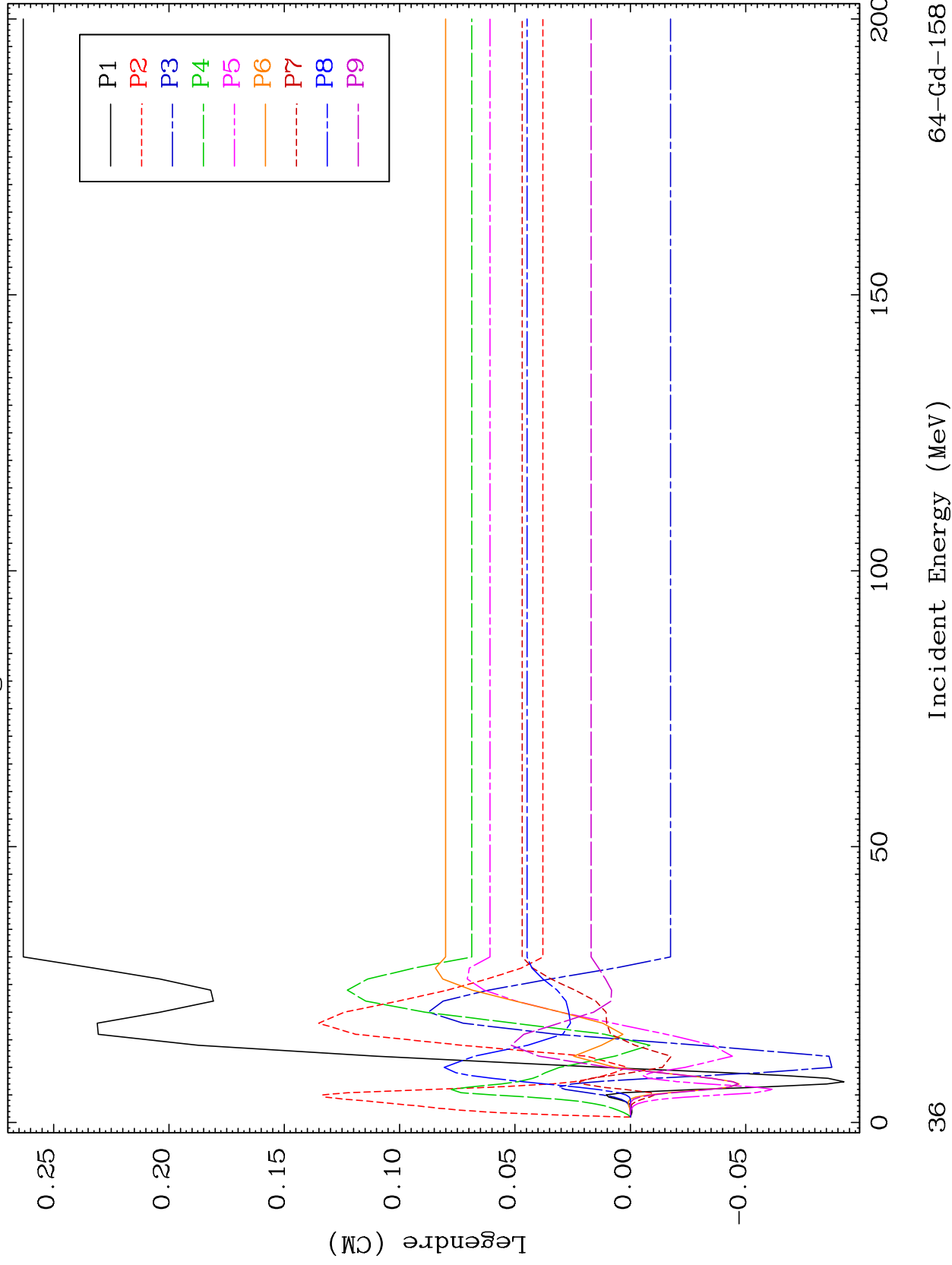
Incident Energy (MeV)

64-Gd-158

MAT 6443

977.1 keV (n,n') Level  
Legendre Coefficients

64-Gd-158



64-Gd-158

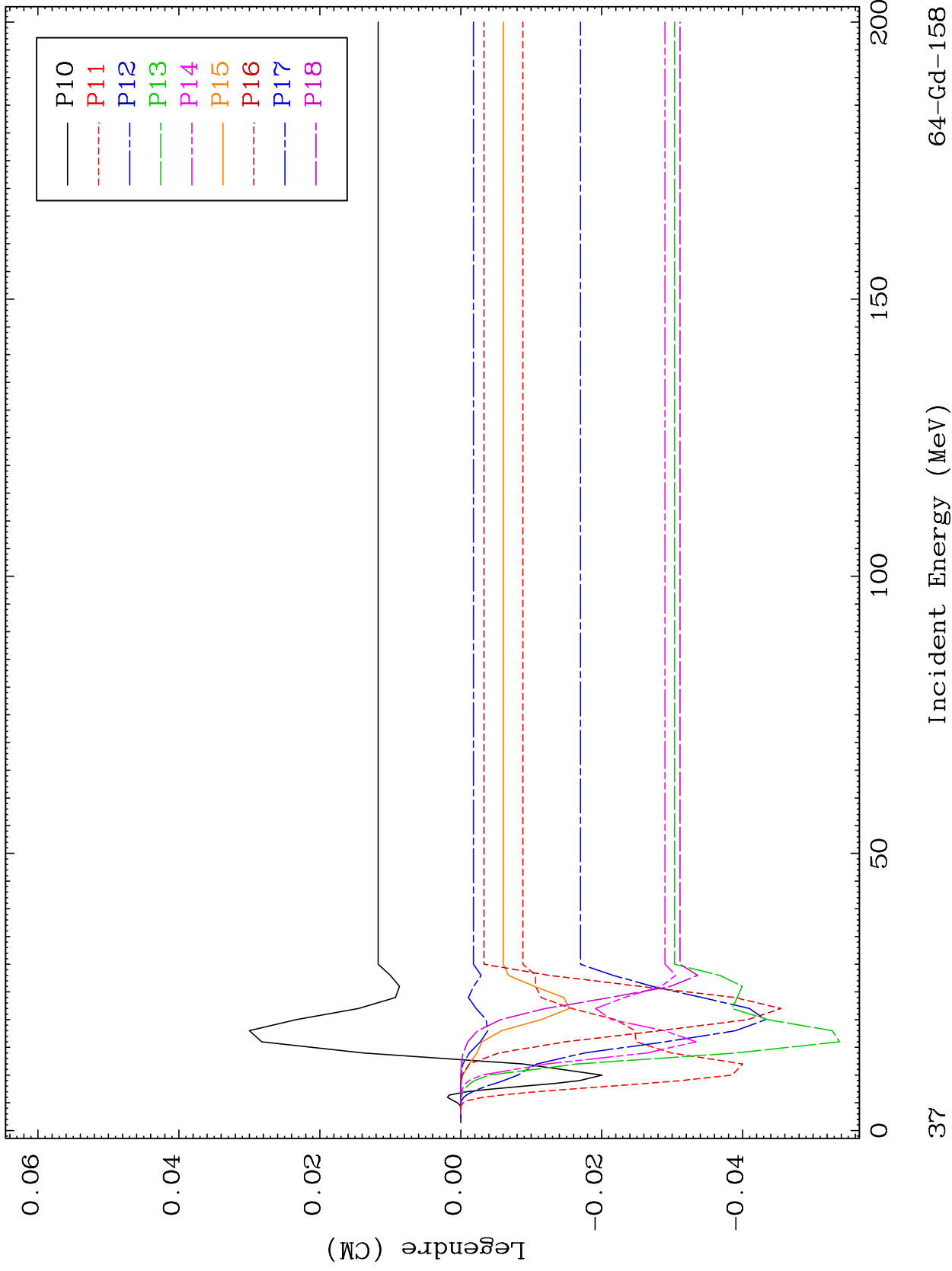
Incident Energy (MeV)

36

MAT 6443

977.1 keV (n,n') Level  
Legendre Coefficients

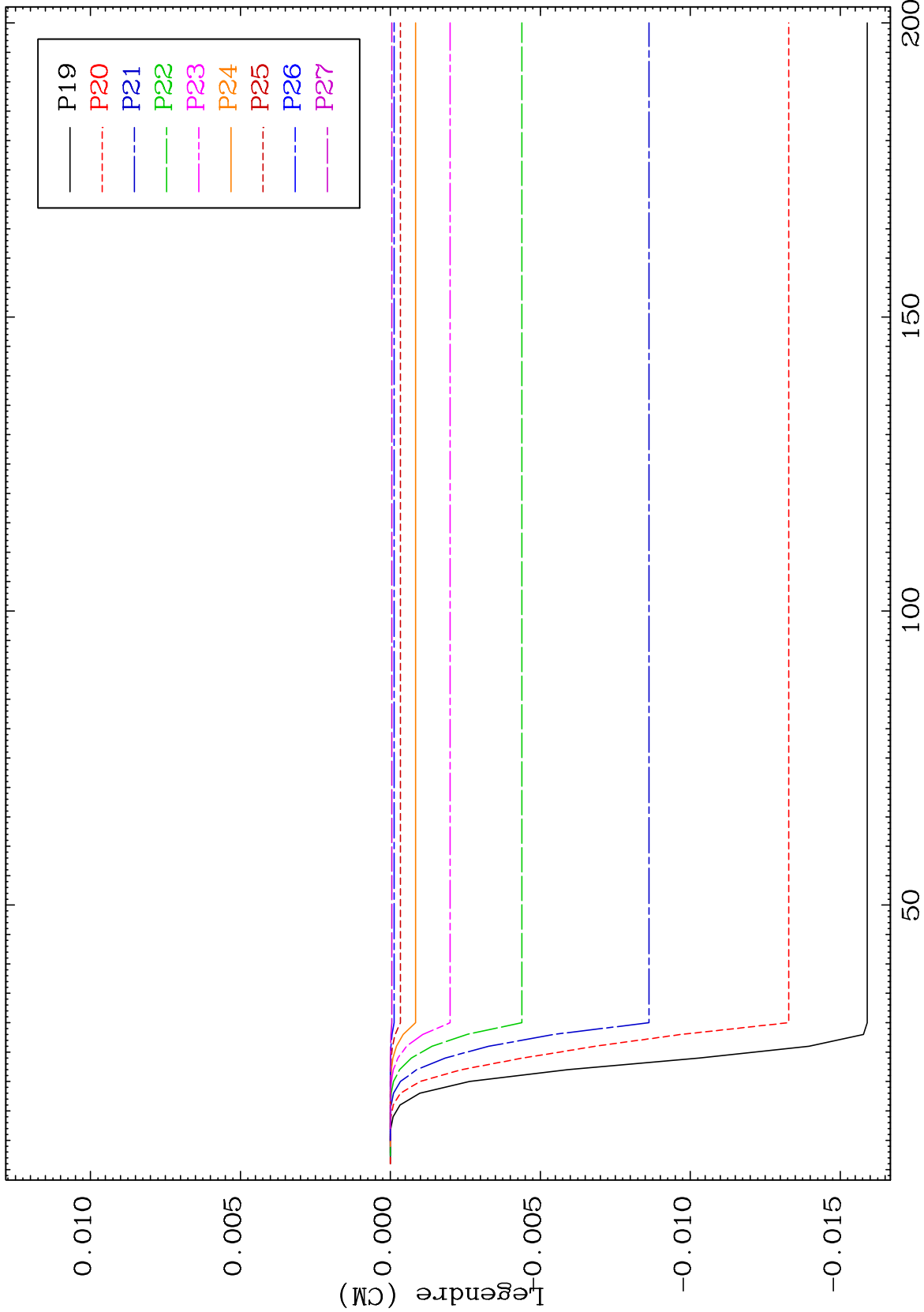
64-Gd-158

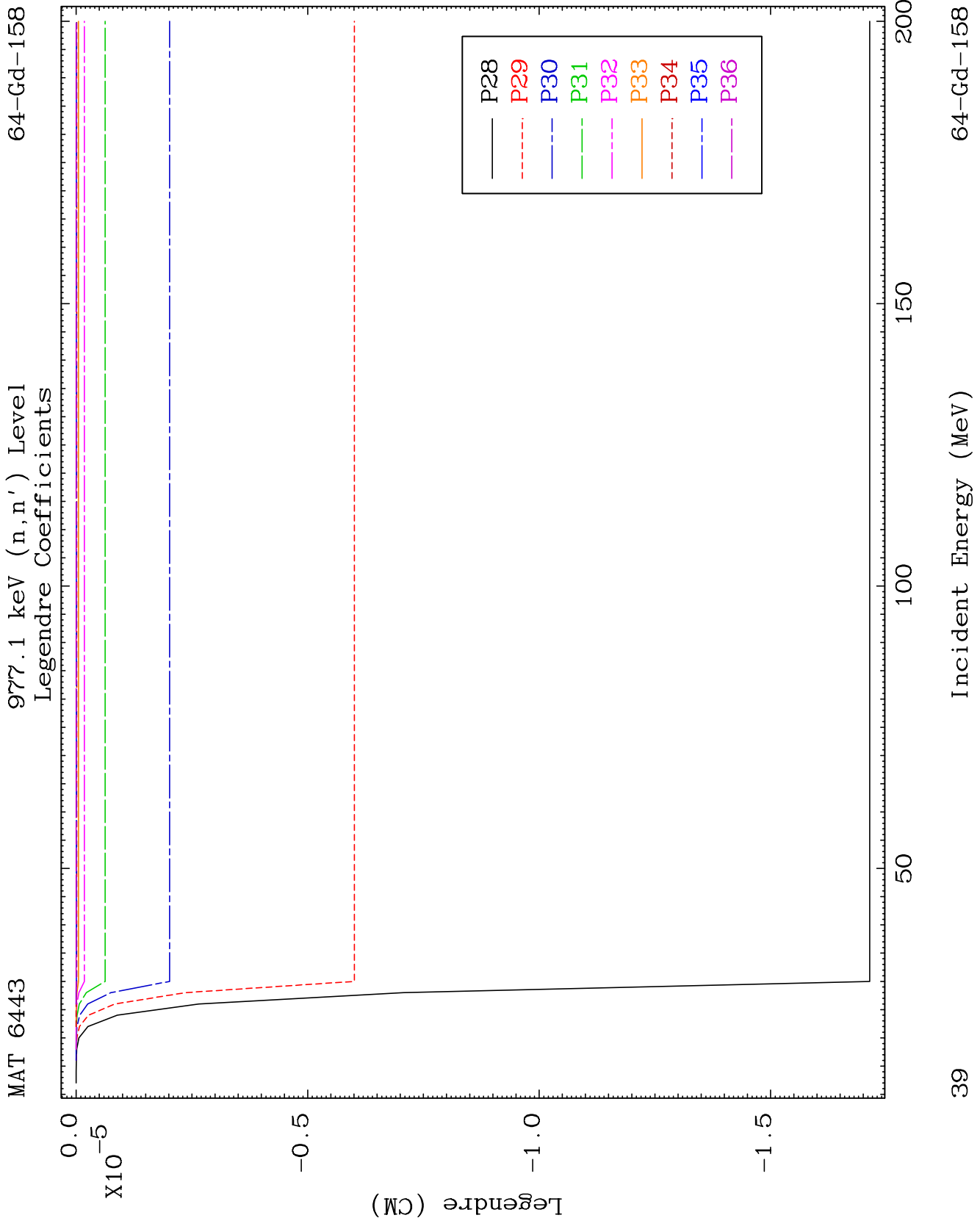


64-Gd-158

Incident Energy (MeV)

37





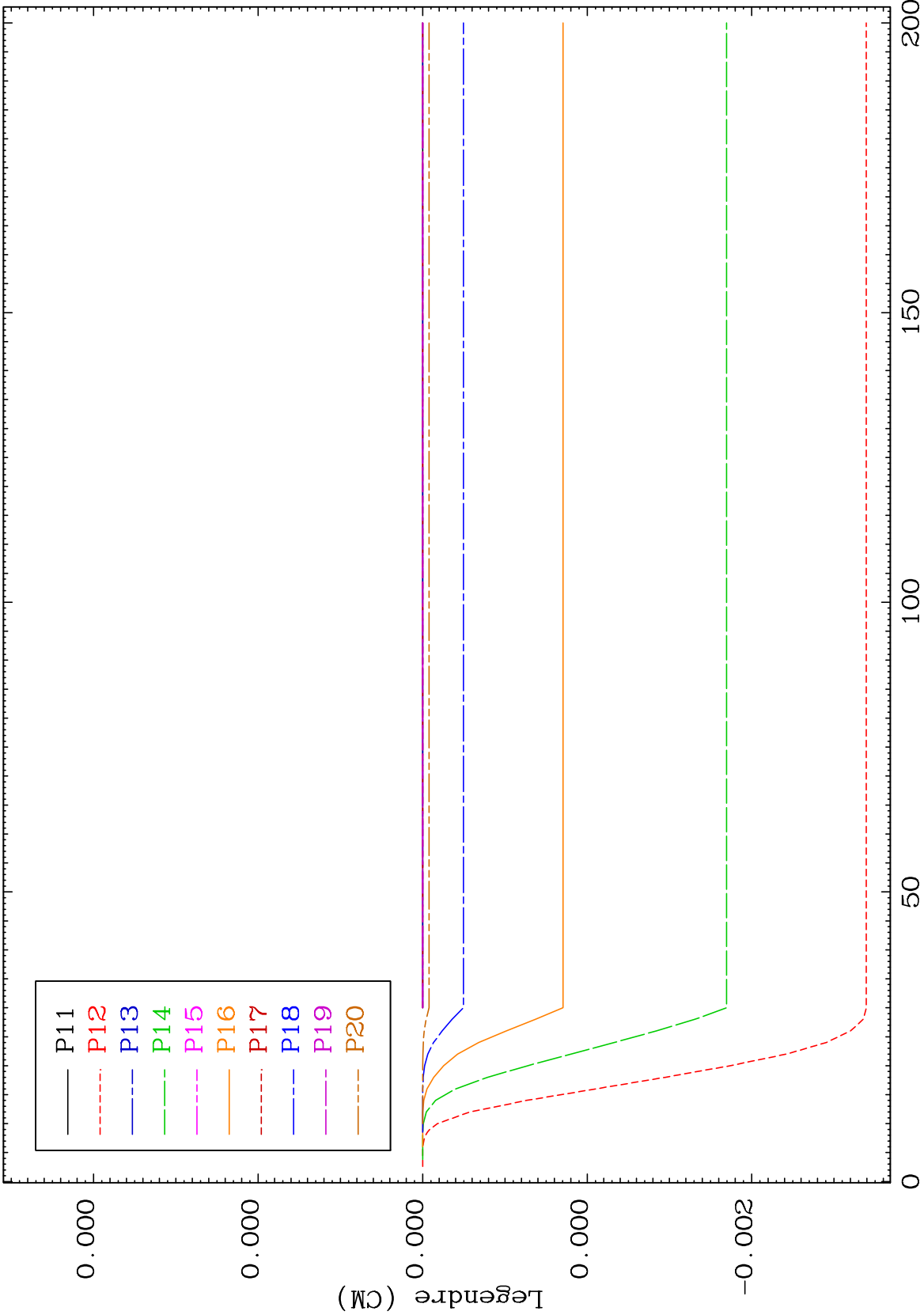




MAT 6443

1.024 MeV (n,n') Level  
Legendre Coefficients

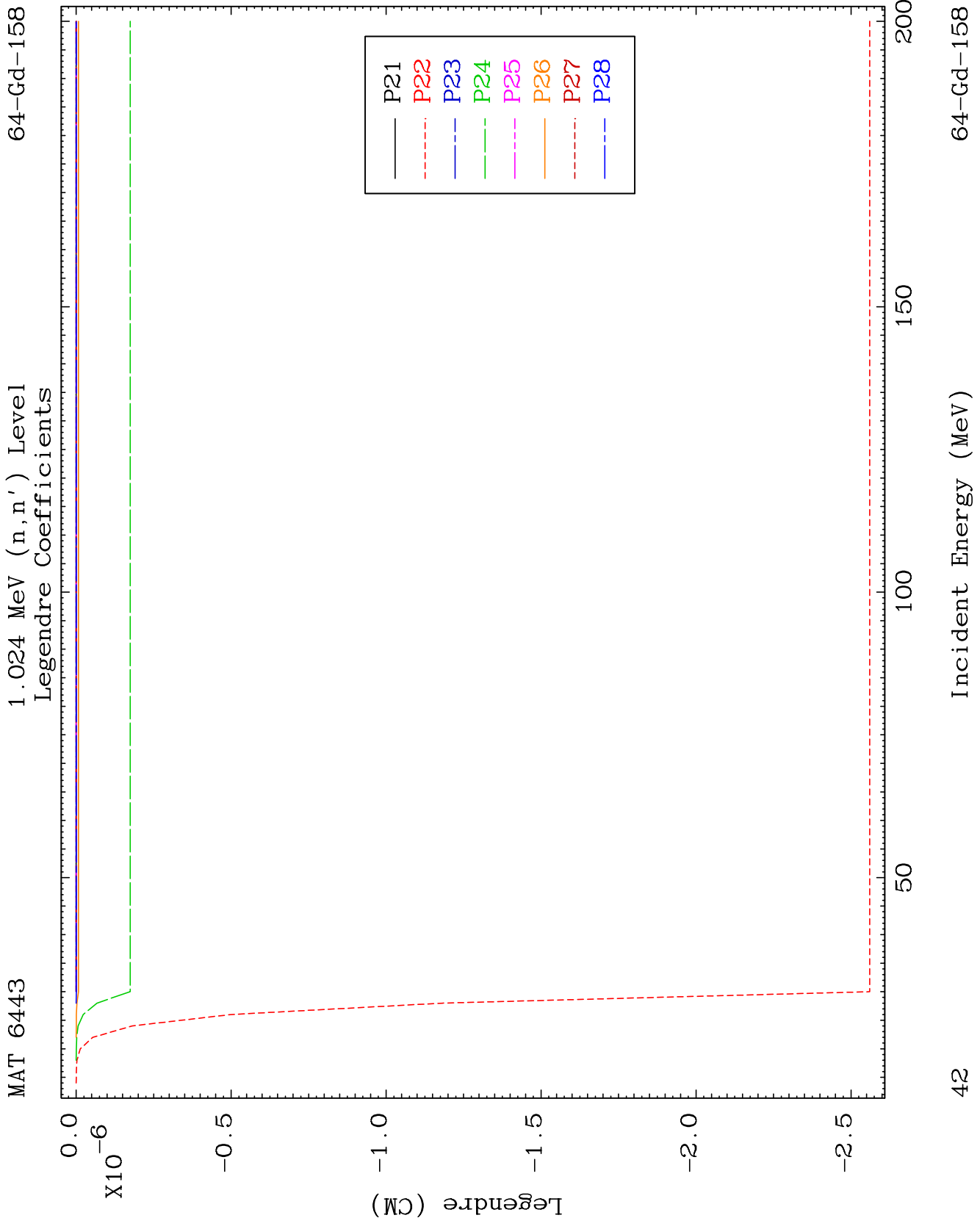
64-Gd-158



41

Incident Energy (MeV)

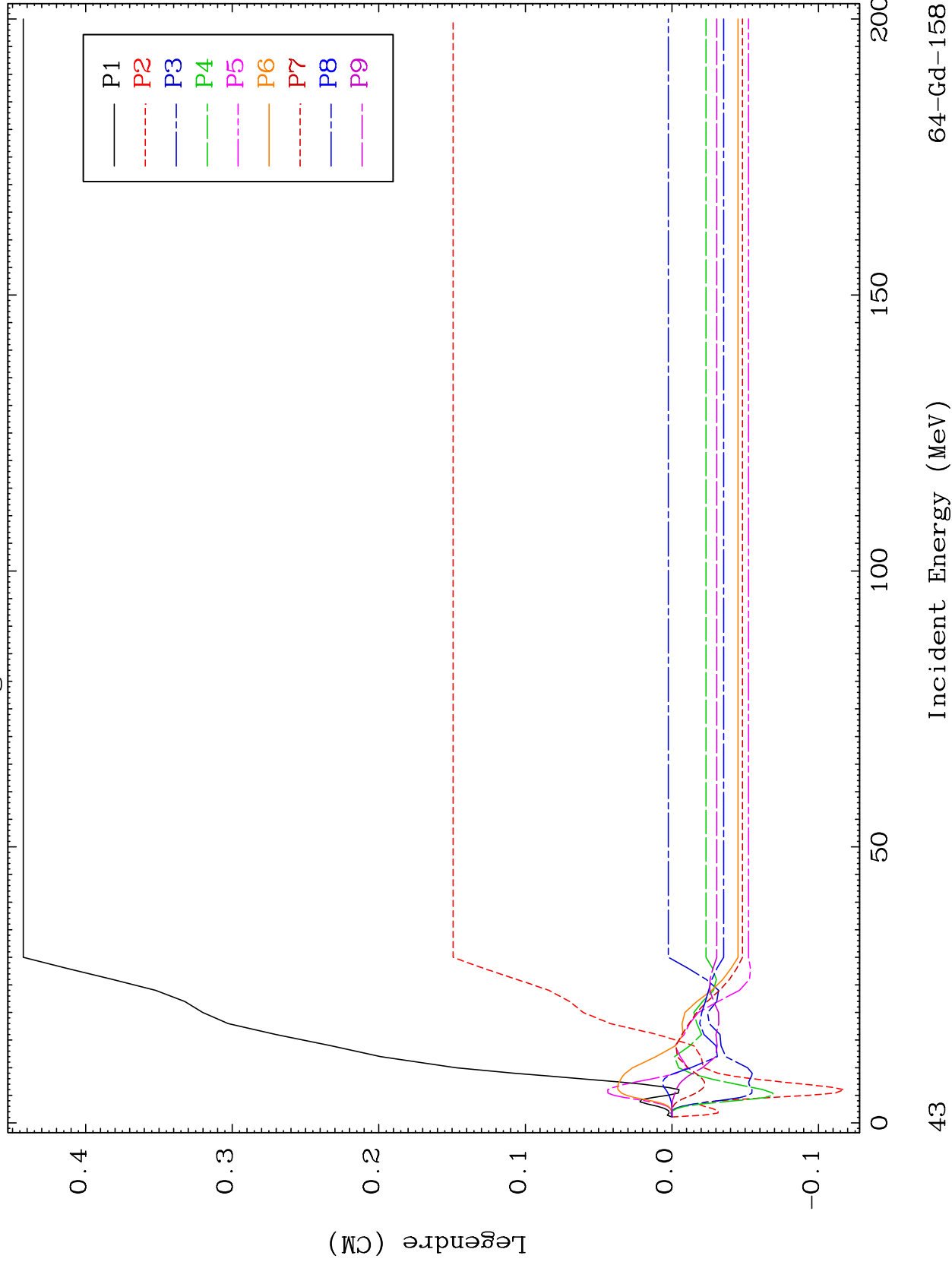
64-Gd-158



MAT 6443

1.042 MeV (n,n') Level  
Legendre Coefficients

64-Gd-158



64-Gd-158

Incident Energy (MeV)

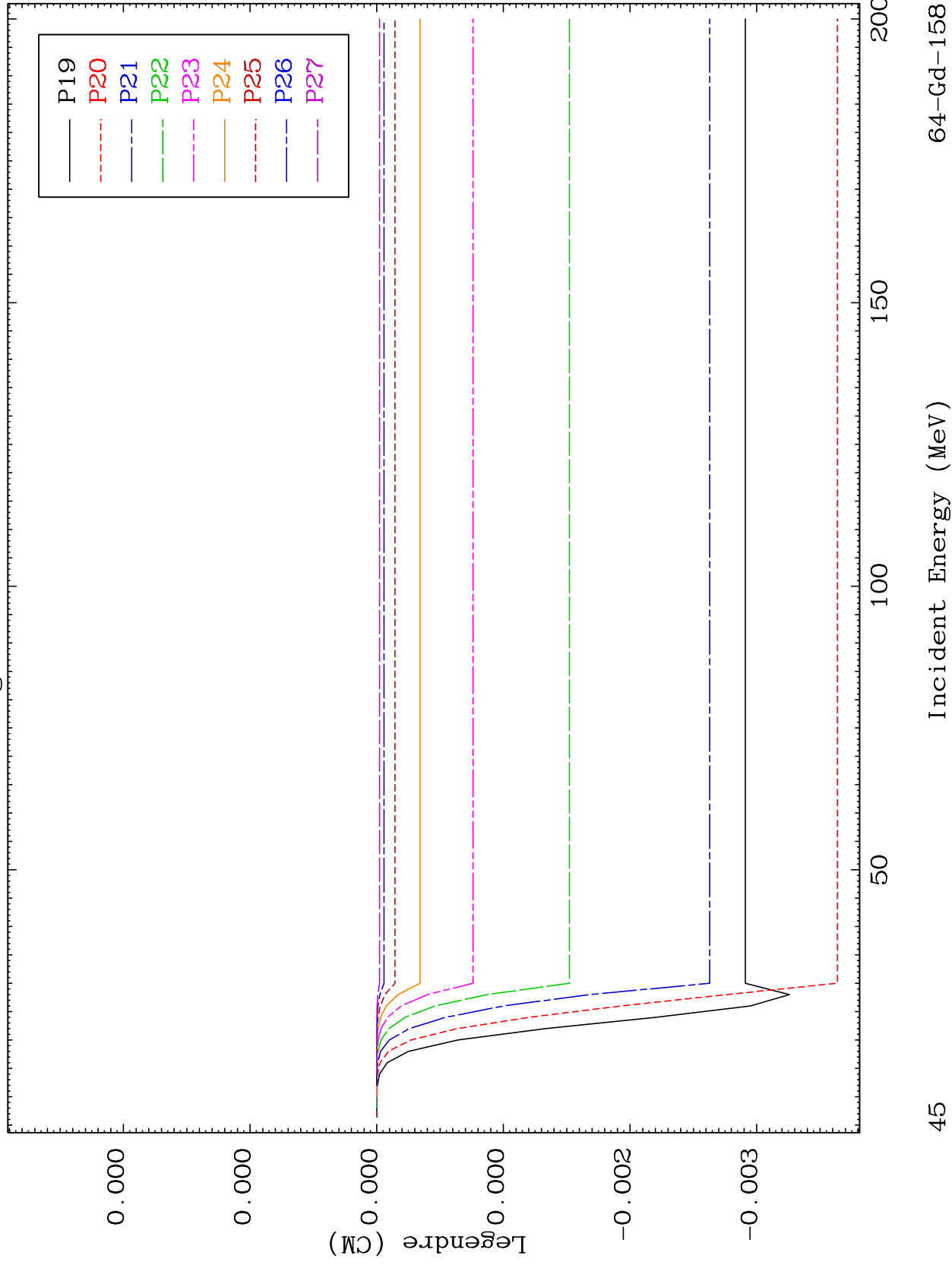
43



MAT 6443

1.042 MeV (n,n') Level  
Legendre Coefficients

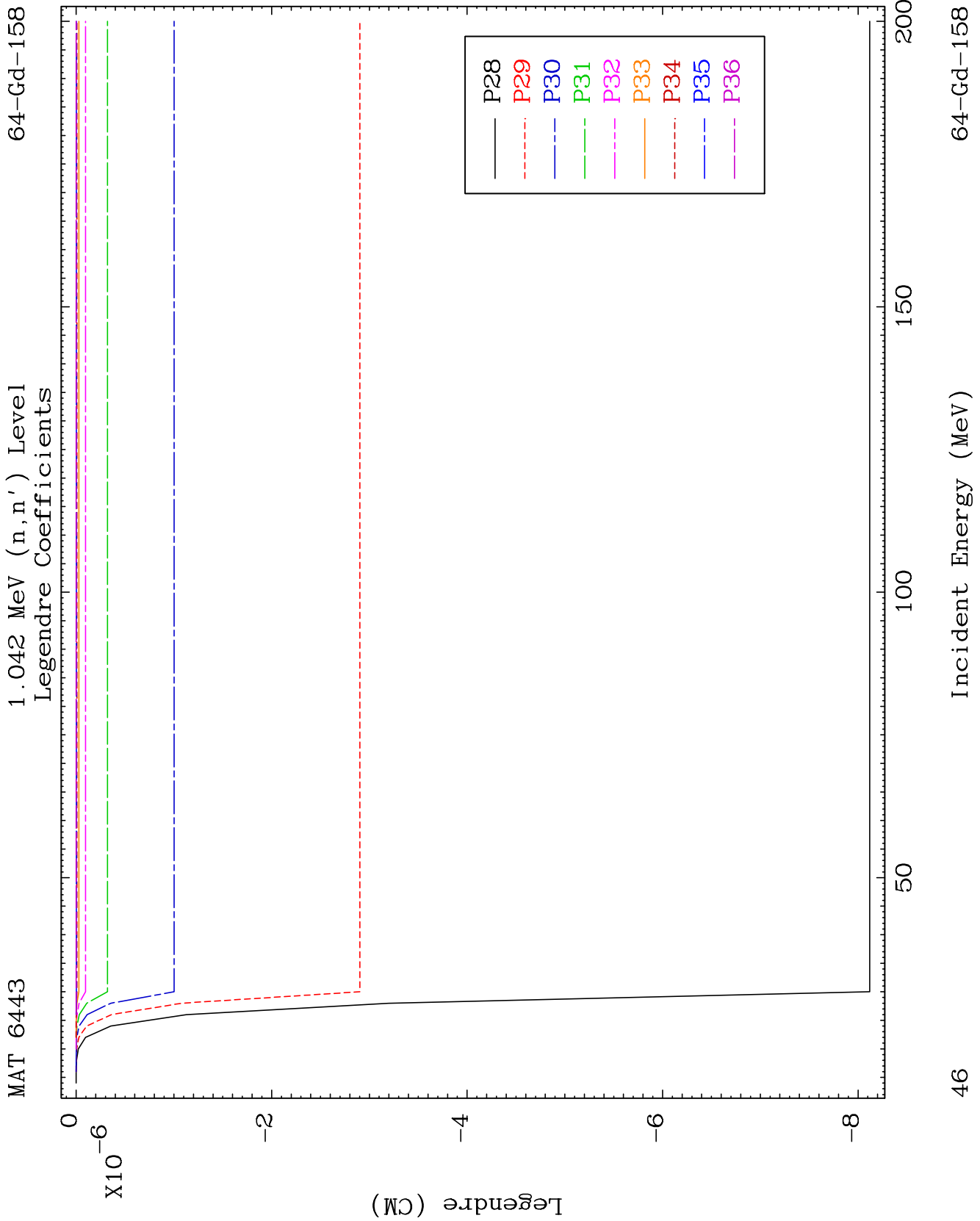
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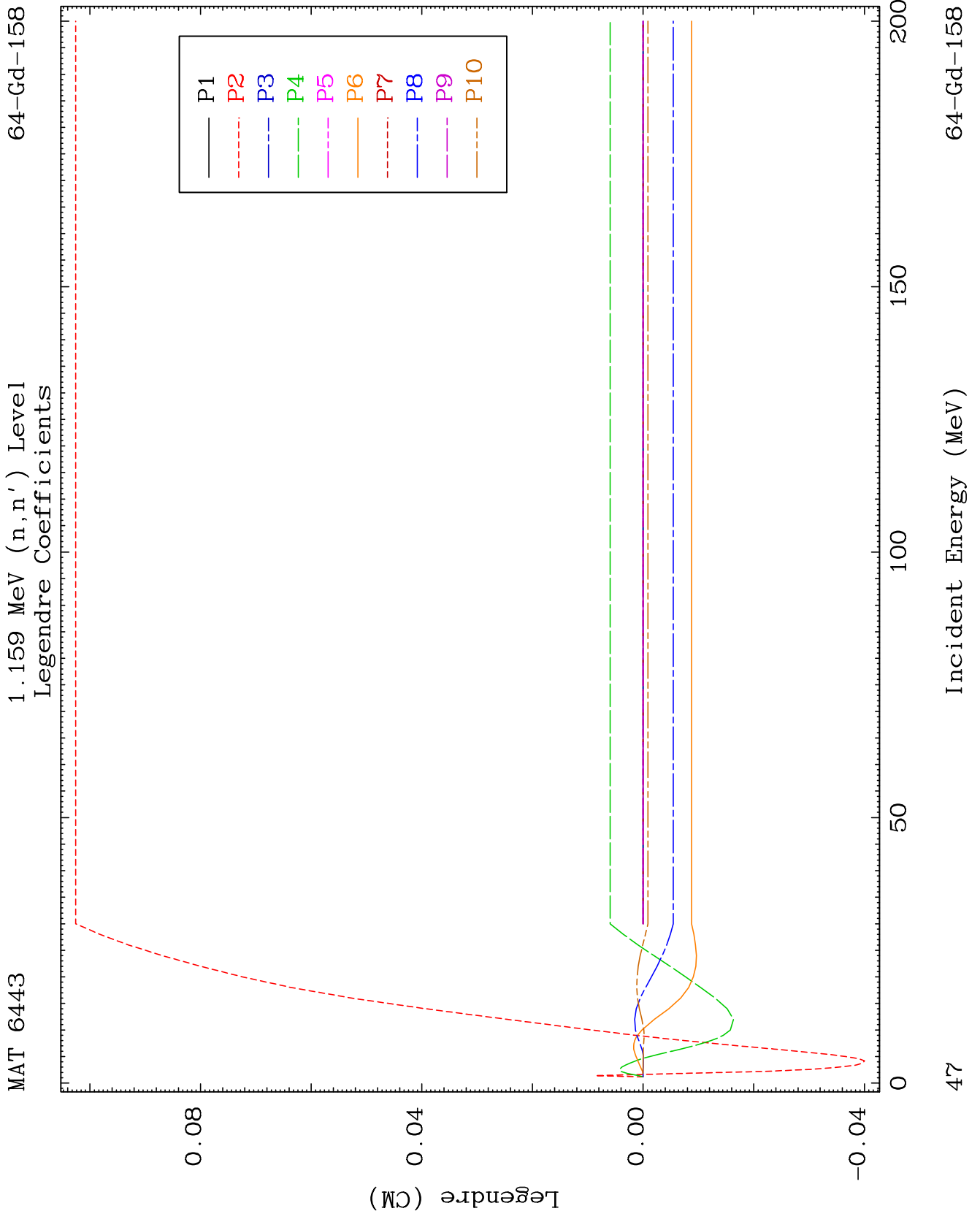


45

Incident Energy (MeV)

64-Gd-158



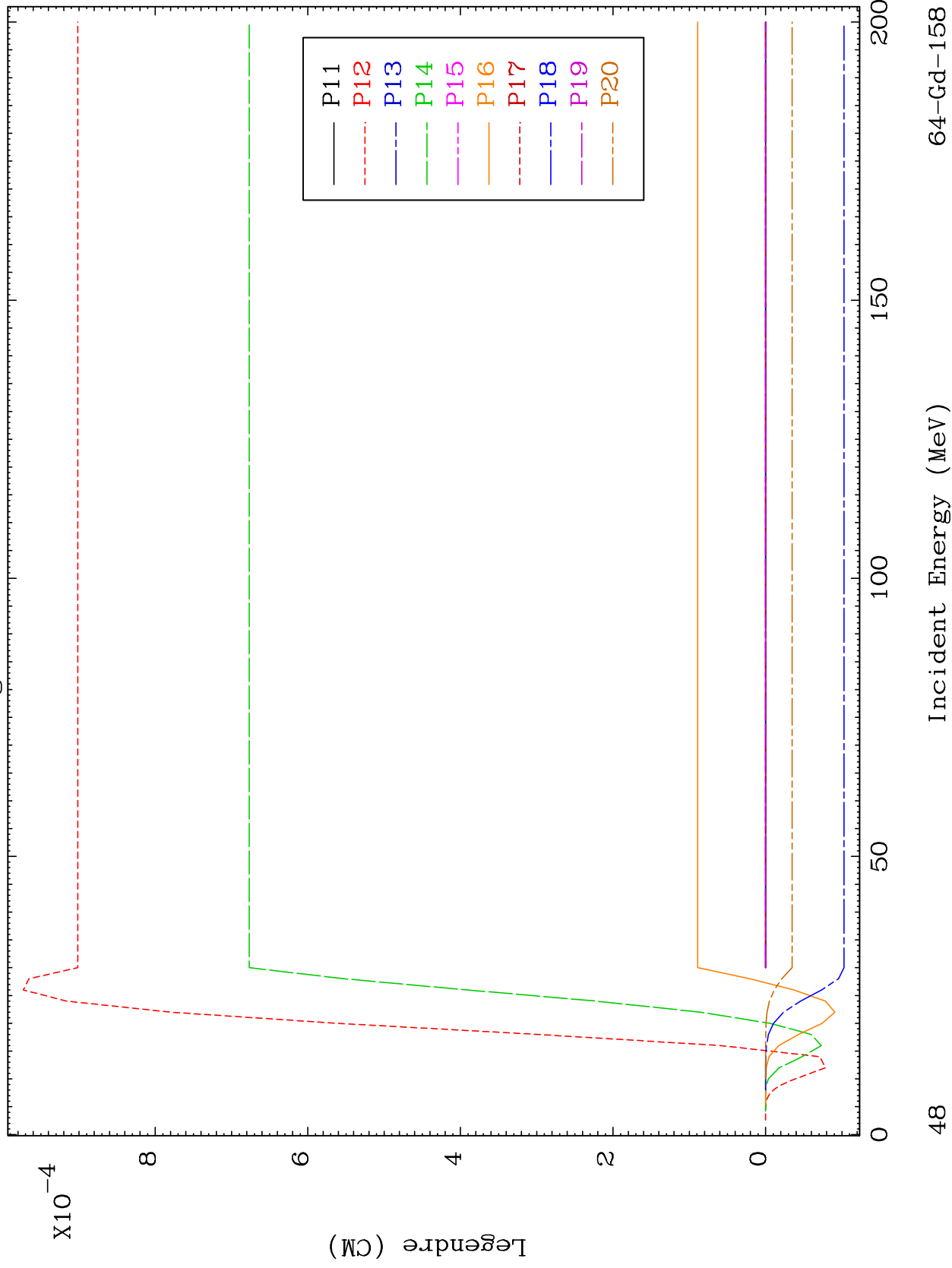




MAT 6443

1.159 MeV (n,n') Level  
Legendre Coefficients

64-Gd-158



48

Incident Energy (MeV)

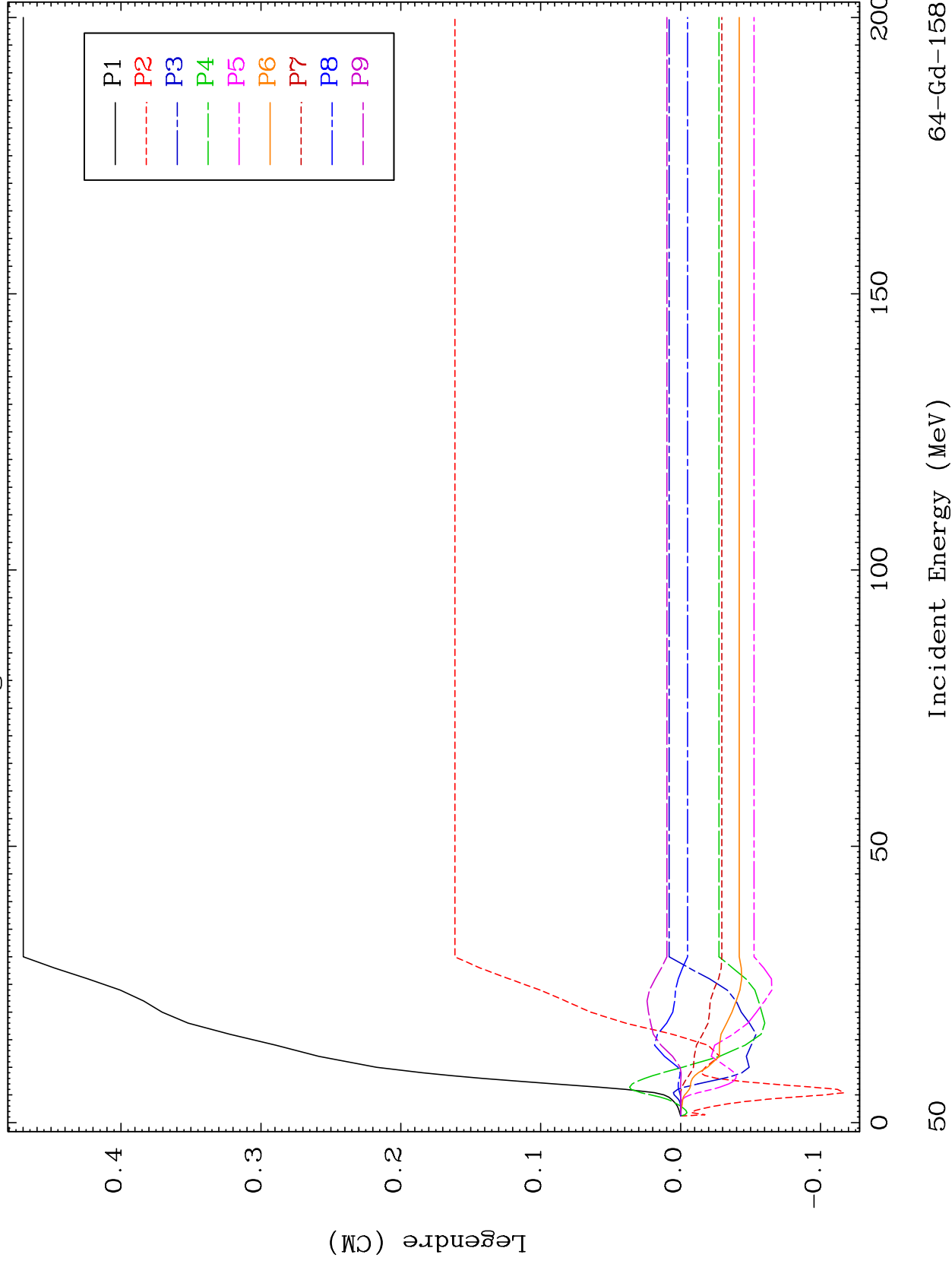
64-Gd-158



MAT 6443

1.176 MeV (n, n') Level  
Legendre Coefficients

64-Gd-158



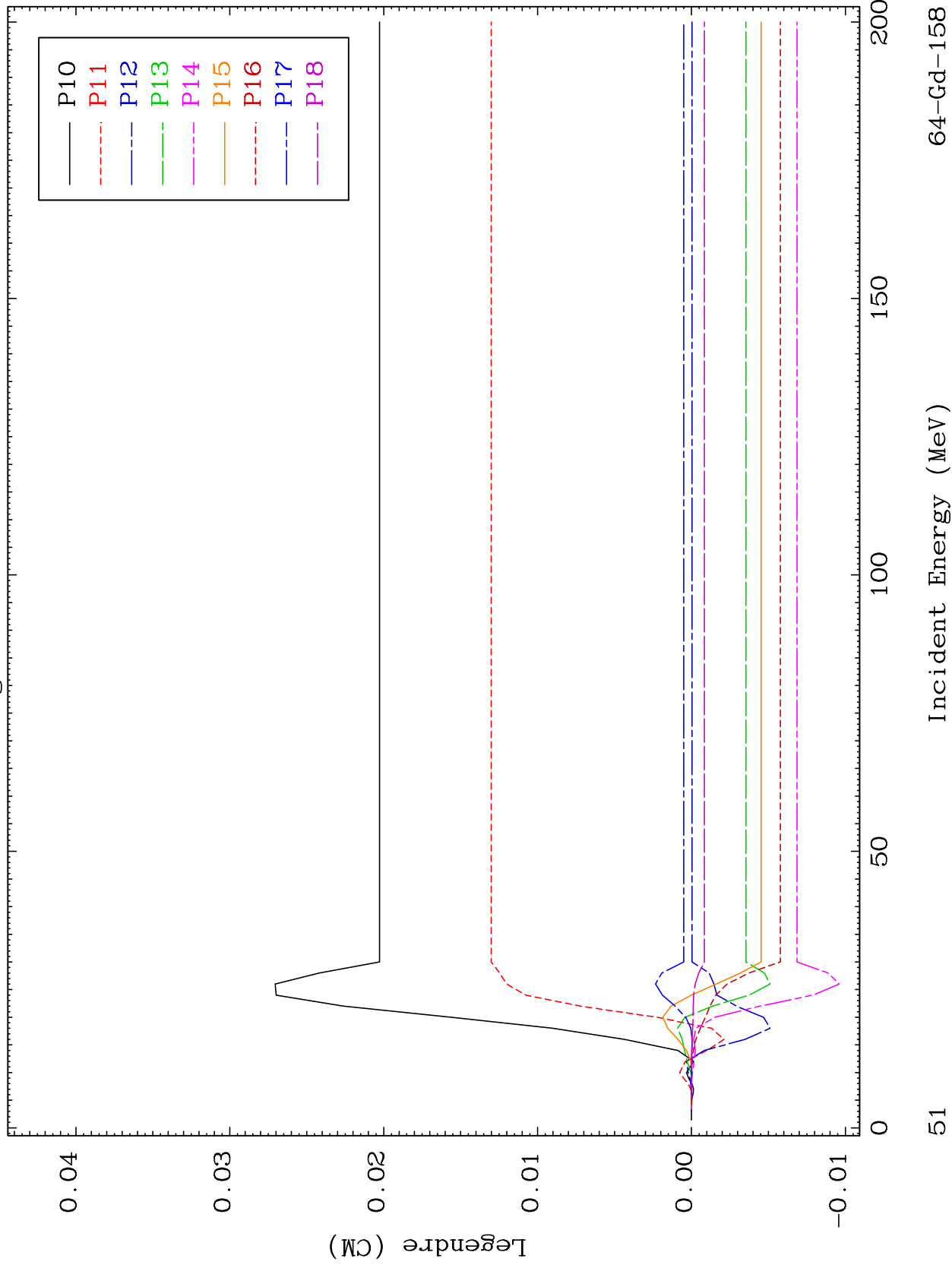
64-Gd-158

Incident Energy (MeV)

MAT 6443

1.176 MeV (n,n') Level  
Legendre Coefficients

64-Gd-158



64-Gd-158

Incident Energy (MeV)

51

MAT 6443

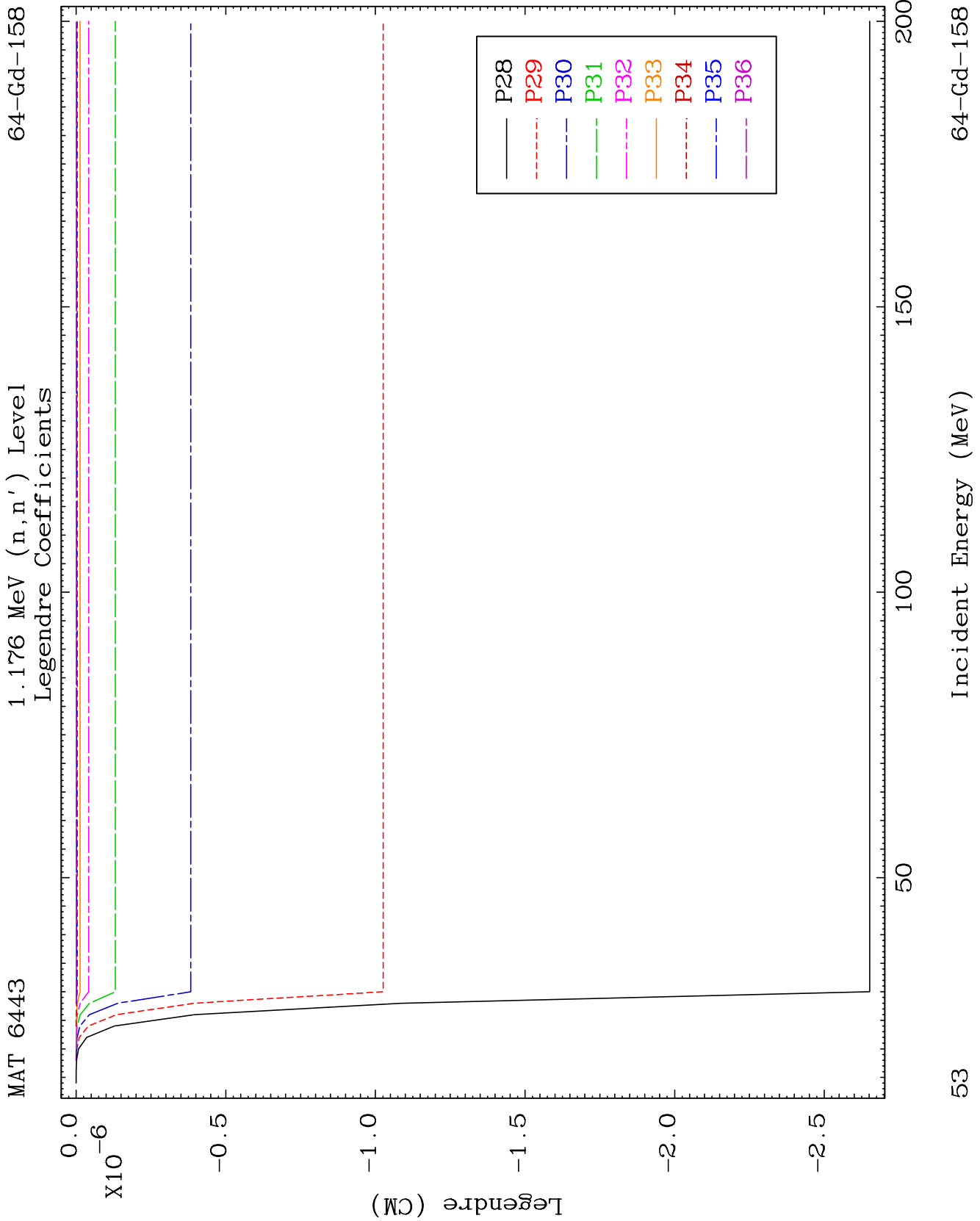
1.176 MeV (n, n') Level  
Legendre Coefficients

64-Gd-158



52

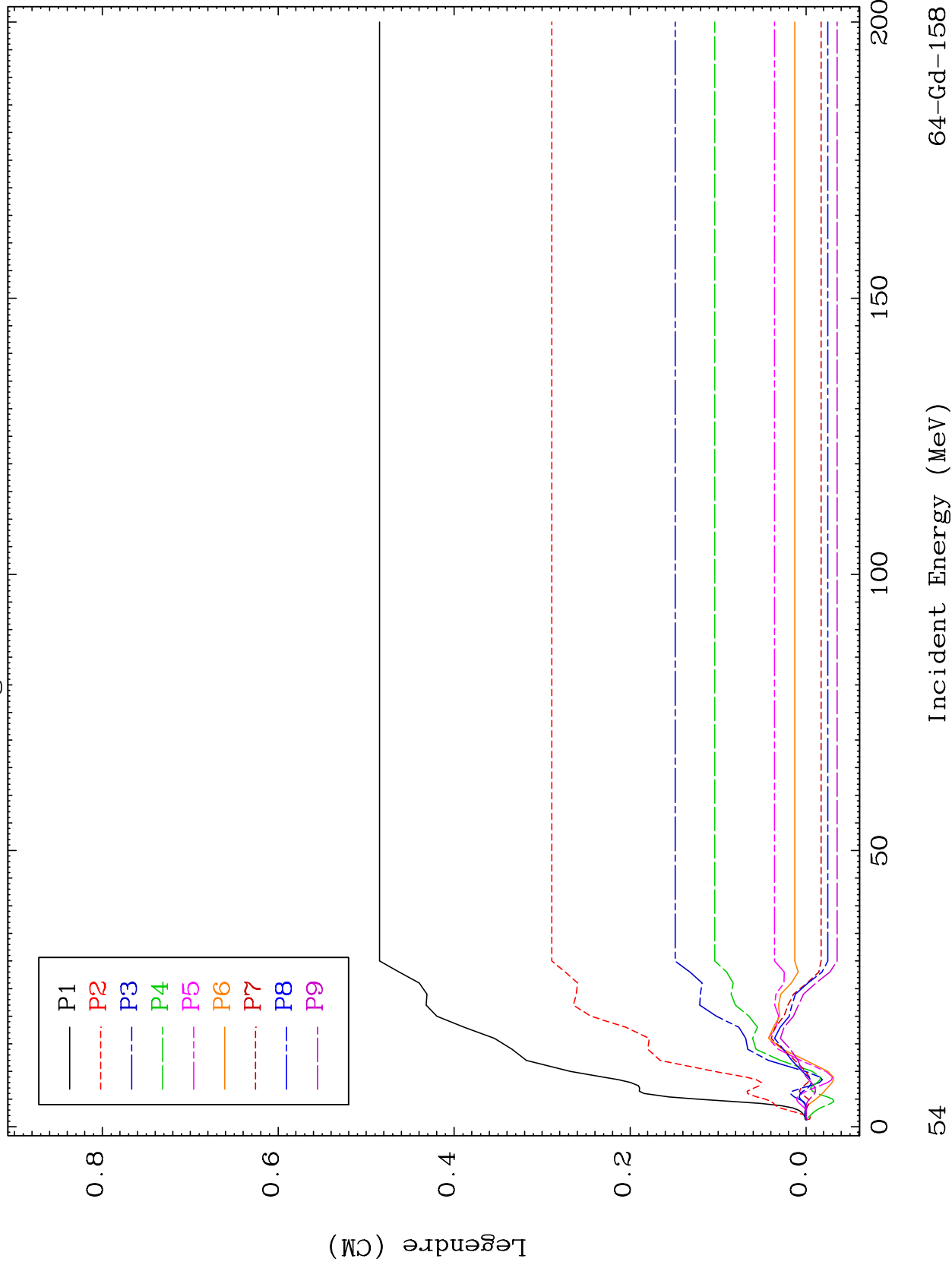
64-Gd-158



MAT 6443

1.187 MeV (n,n') Level  
Legendre Coefficients

64-Gd-158



54

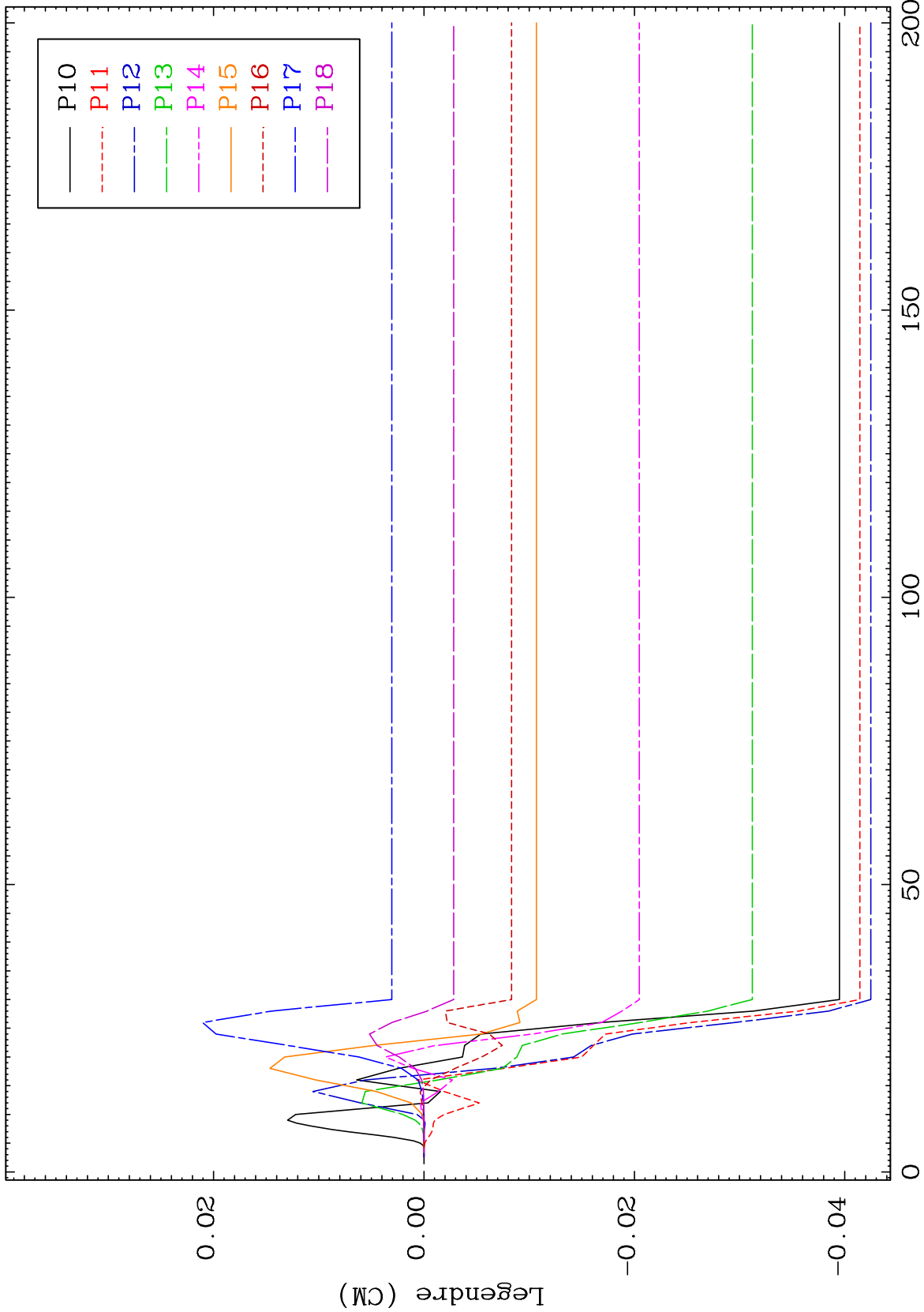
Incident Energy (MeV)

64-Gd-158

MAT 6443

1.187 MeV (n,n') Level  
Legendre Coefficients

64-Gd-158



55

Incident Energy (MeV)

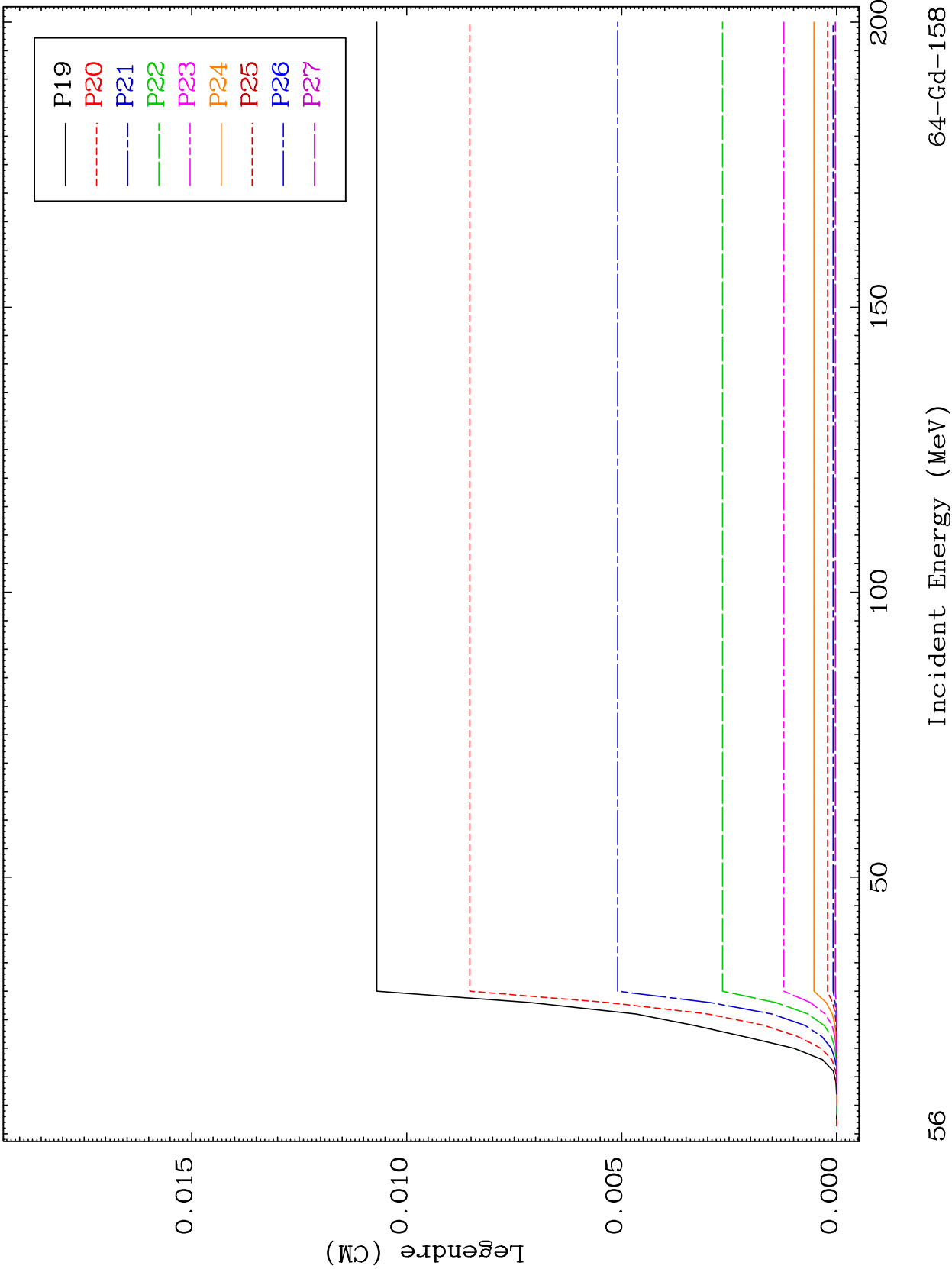
64-Gd-158



MAT 6443

1.187 MeV (n,n') Level  
Legendre Coefficients

64-Gd-158



56

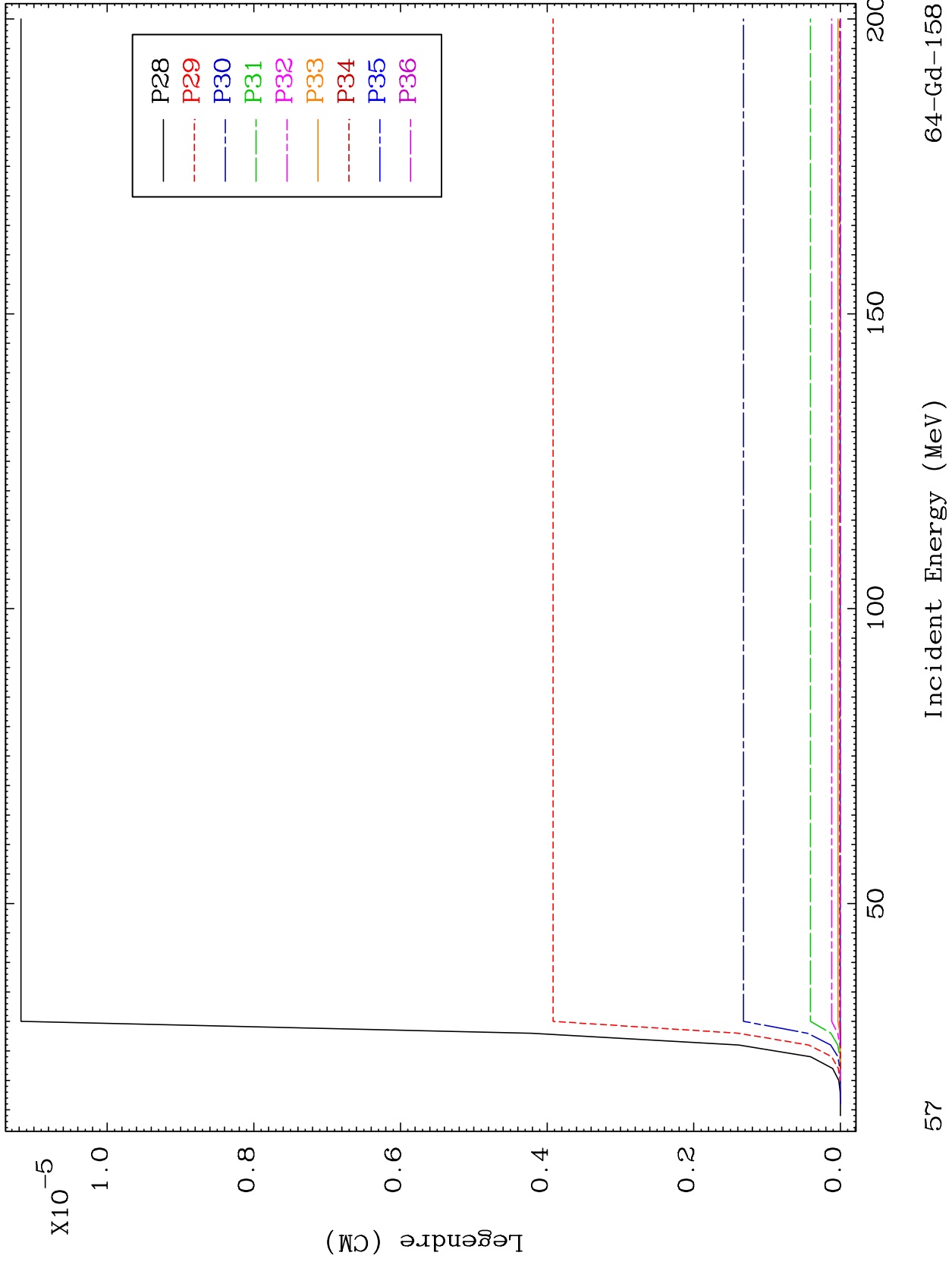
Incident Energy (MeV)

64-Gd-158

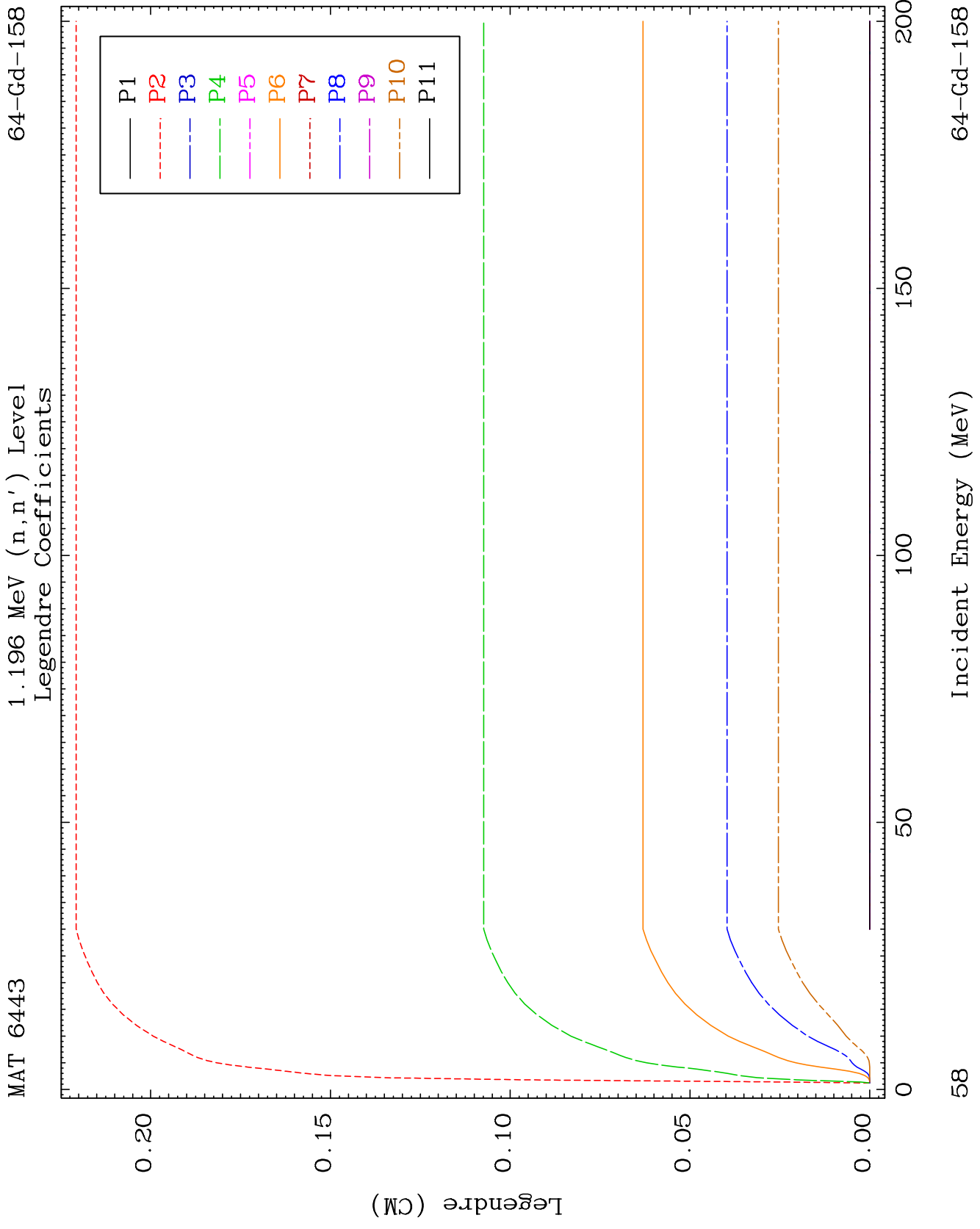
MAT 6443

1.187 MeV (n,n') Level  
Legendre Coefficients

64-Gd-158



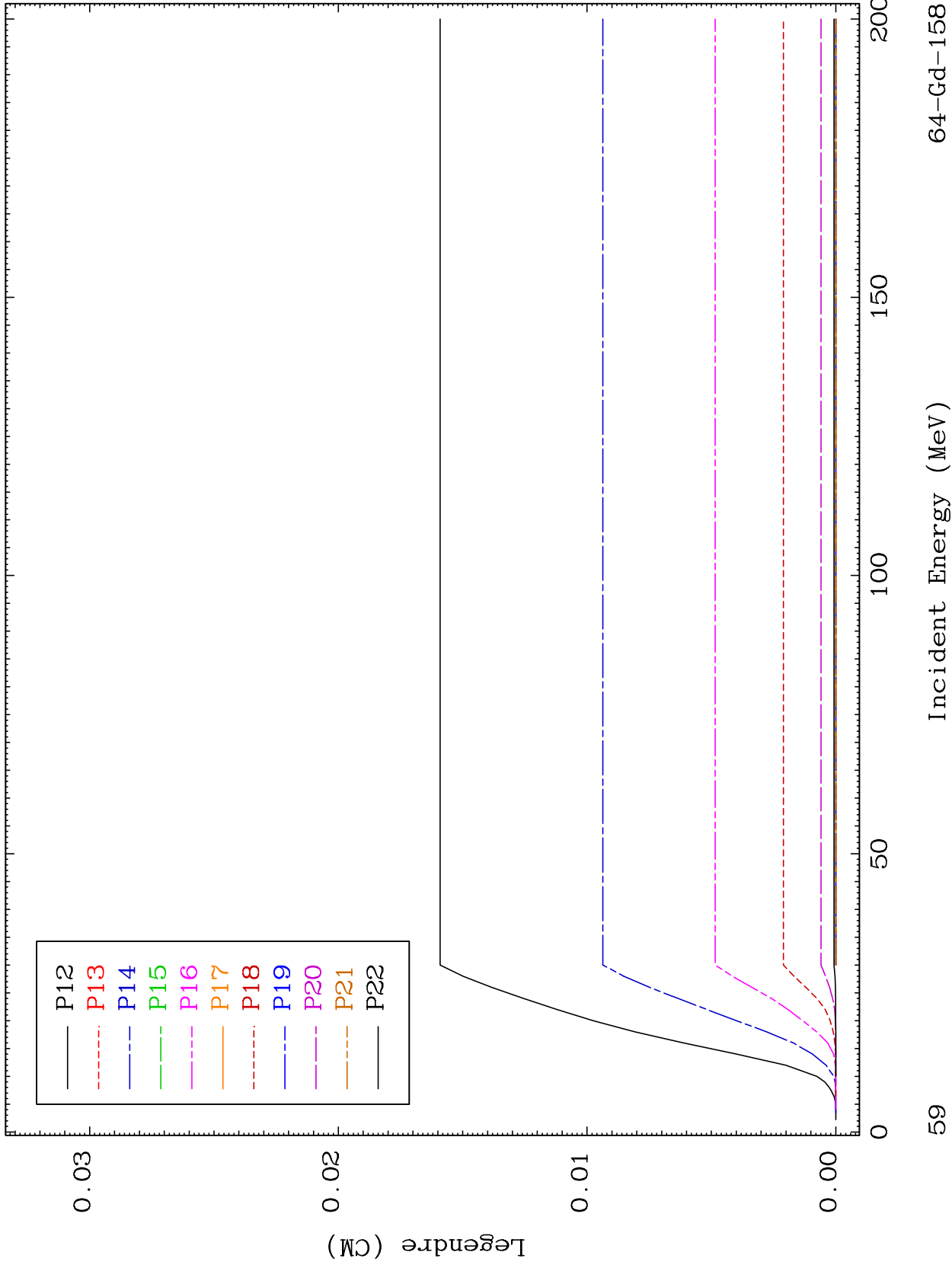
57



MAT 6443

1.196 MeV (n,n') Level  
Legendre Coefficients

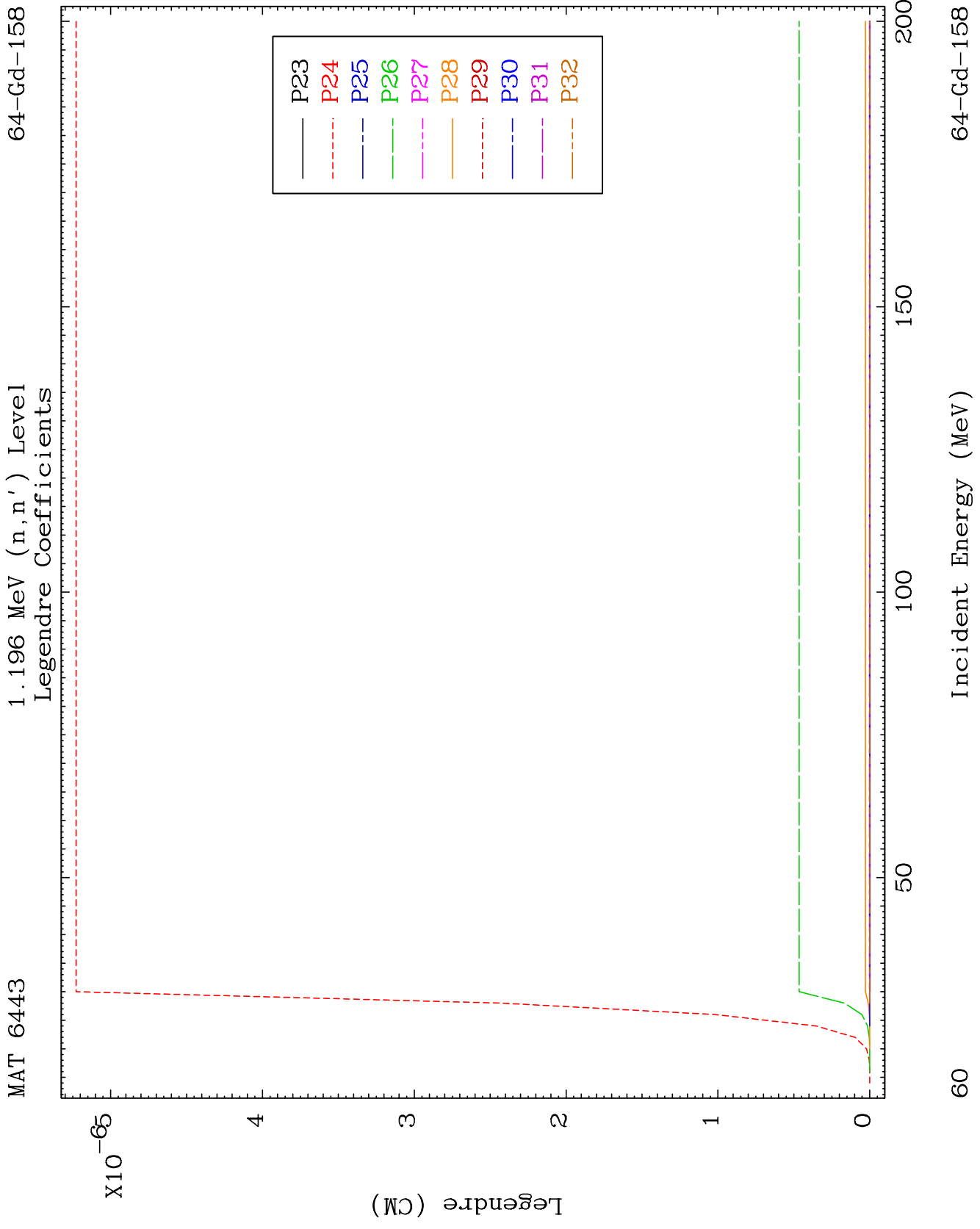
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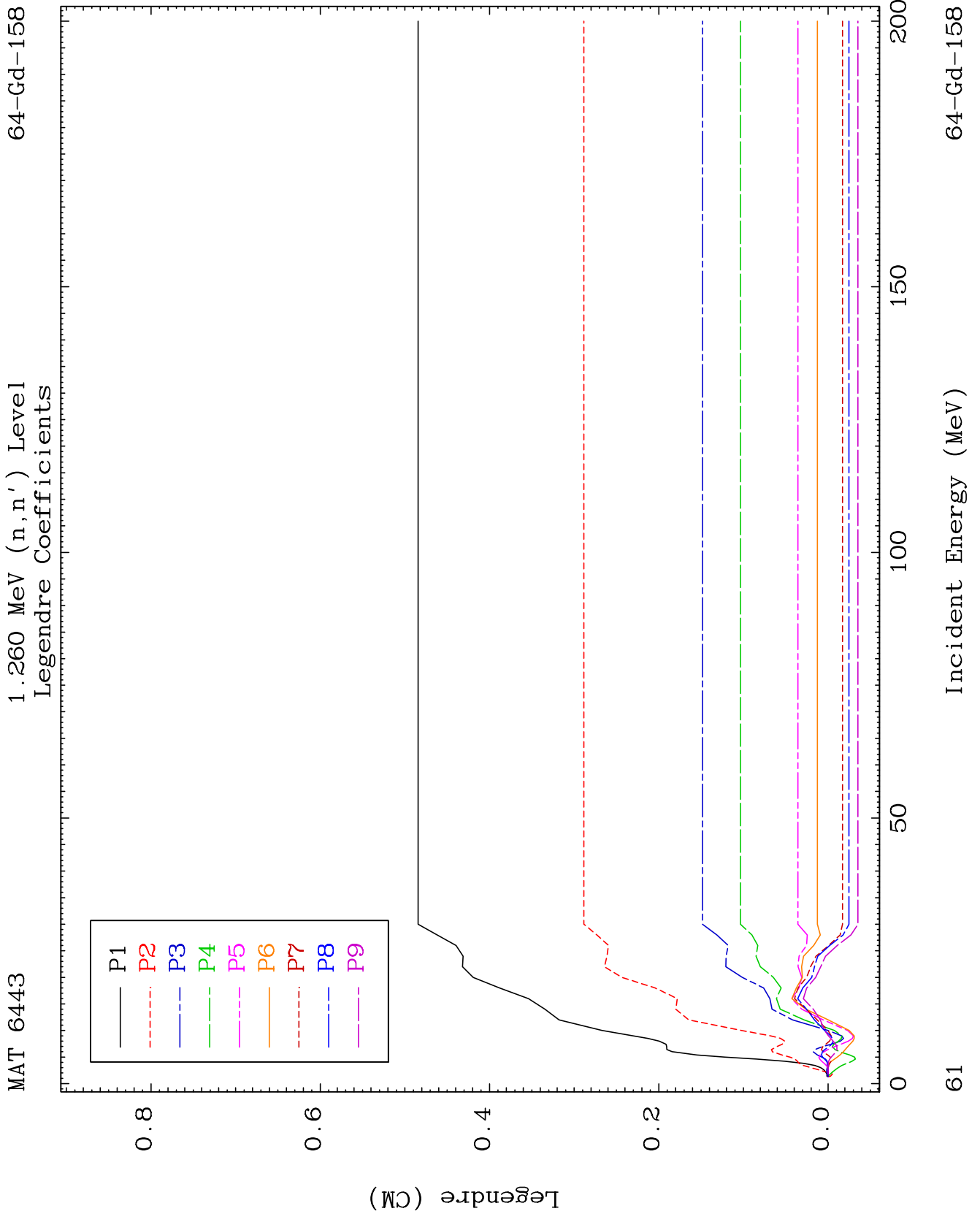


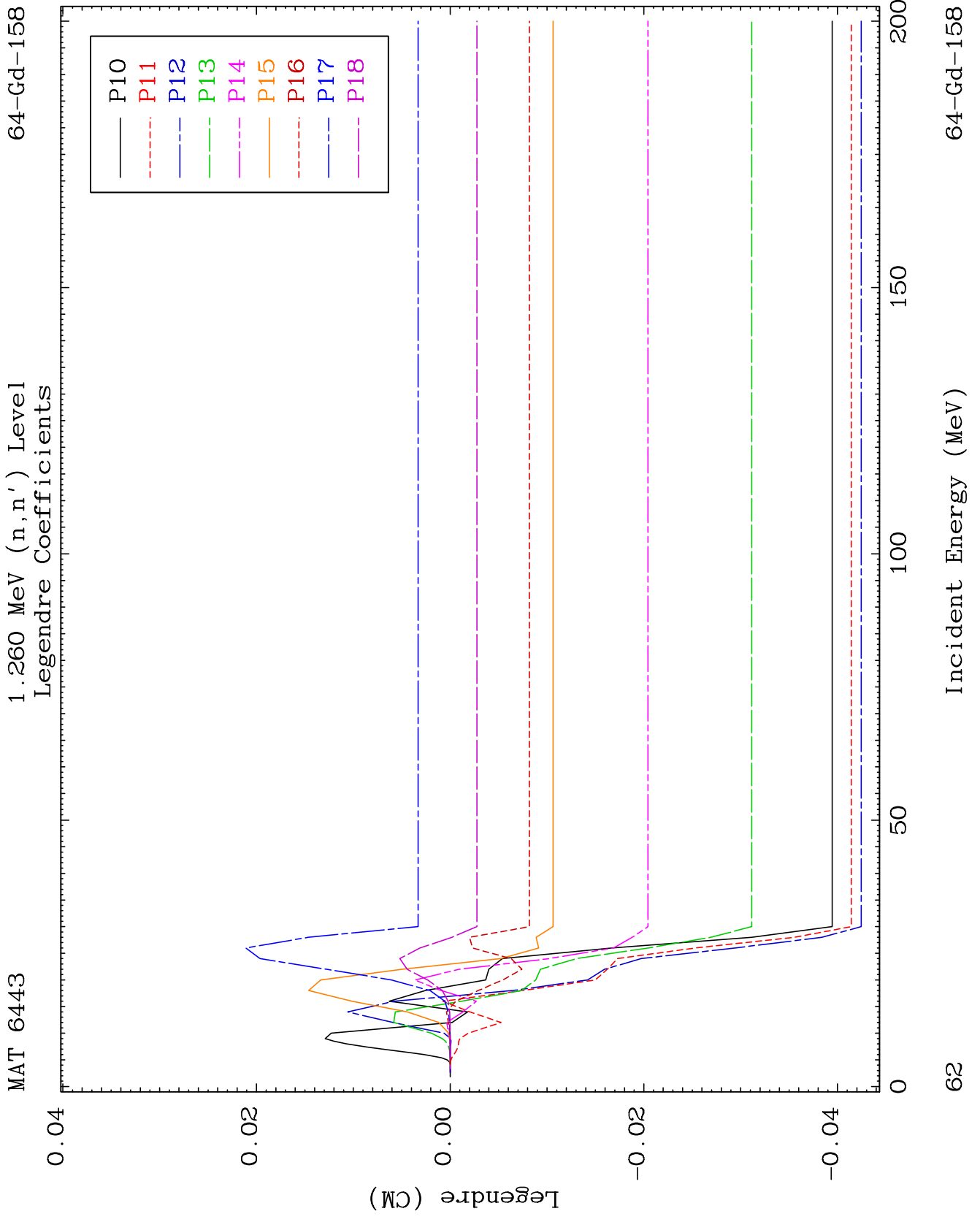
59

Incident Energy (MeV)

64-Gd-158



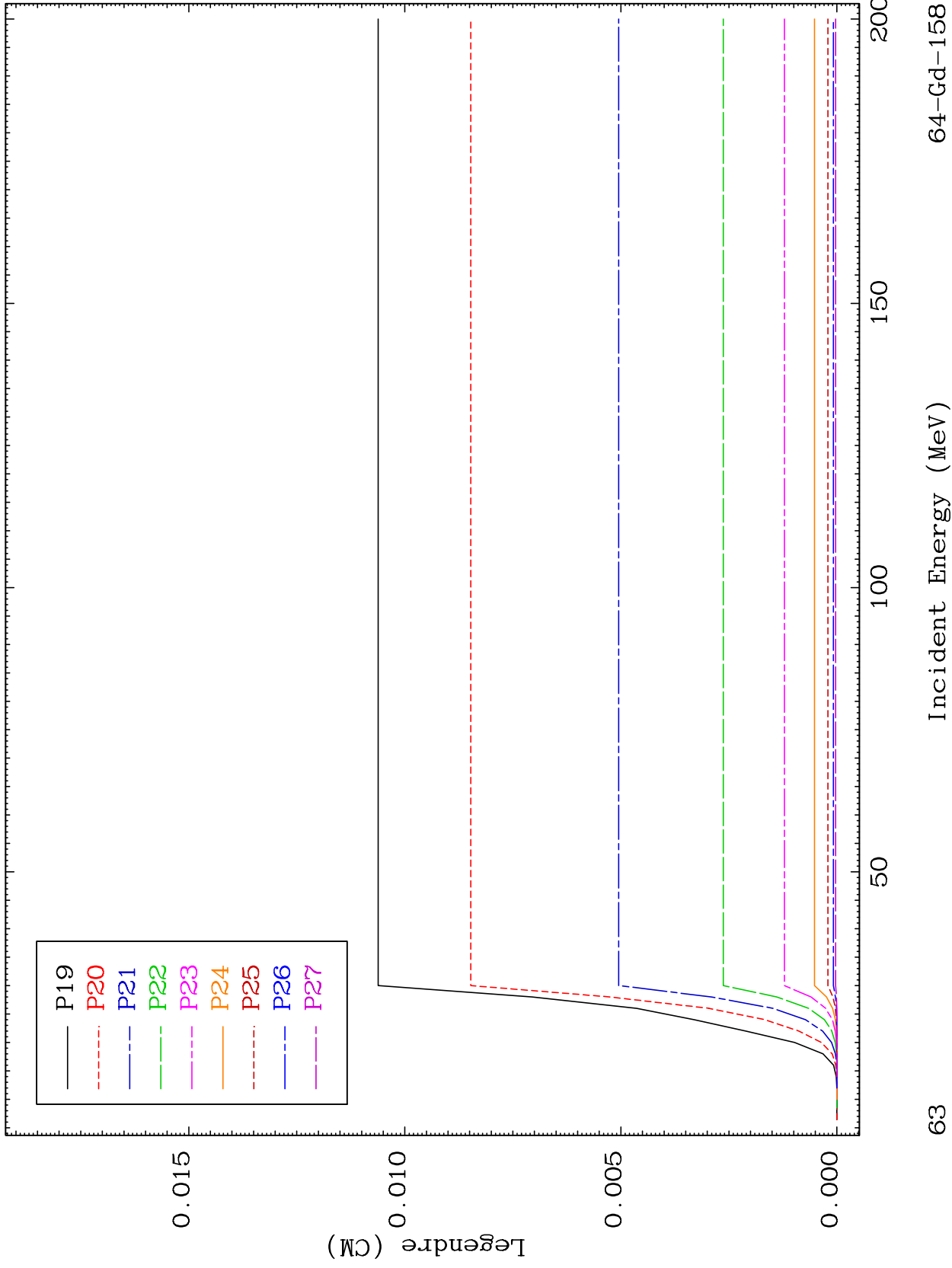




MAT 6443

1.260 MeV (n,n') Level  
Legendre Coefficients

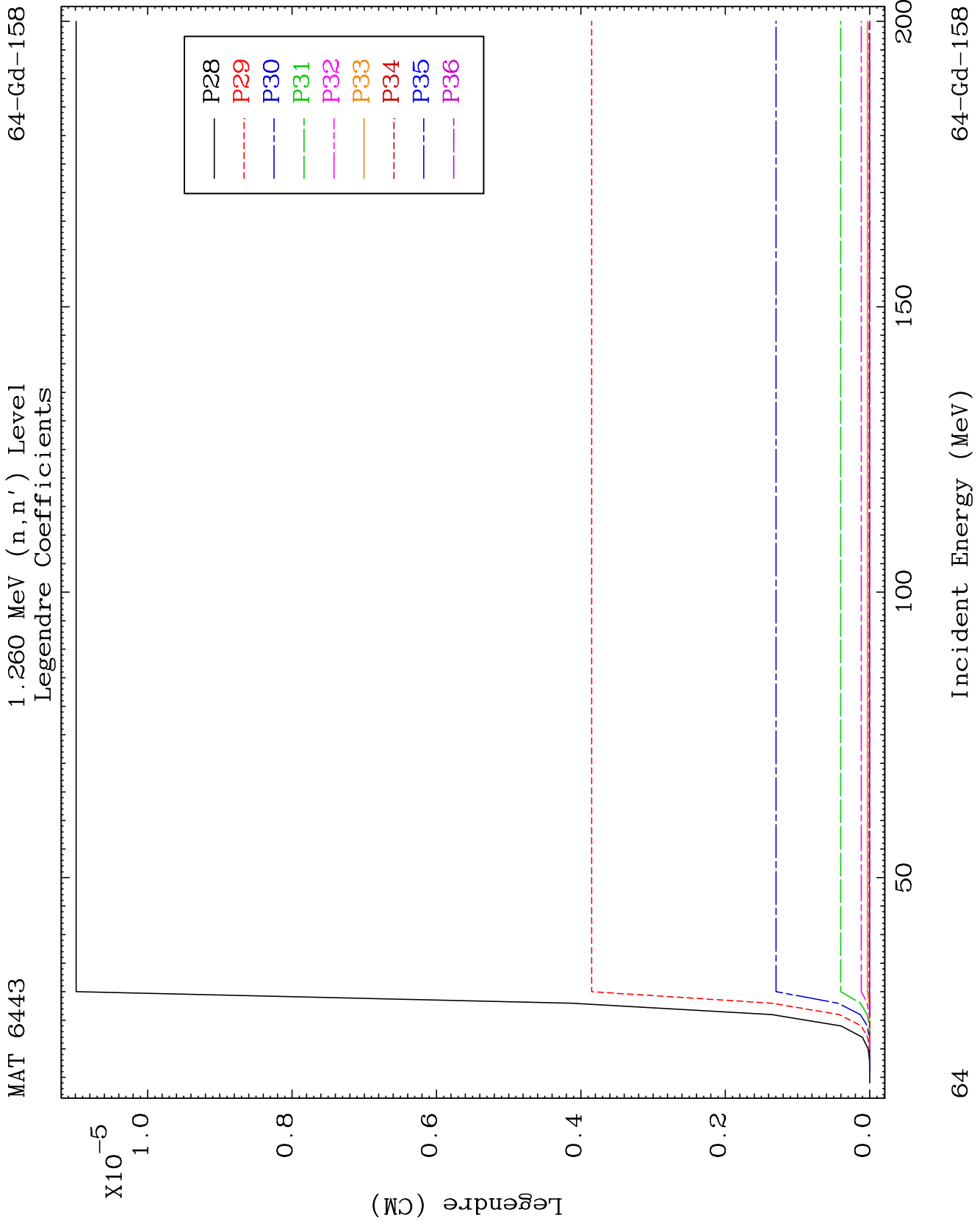
64-Gd-158



63

64-Gd-158

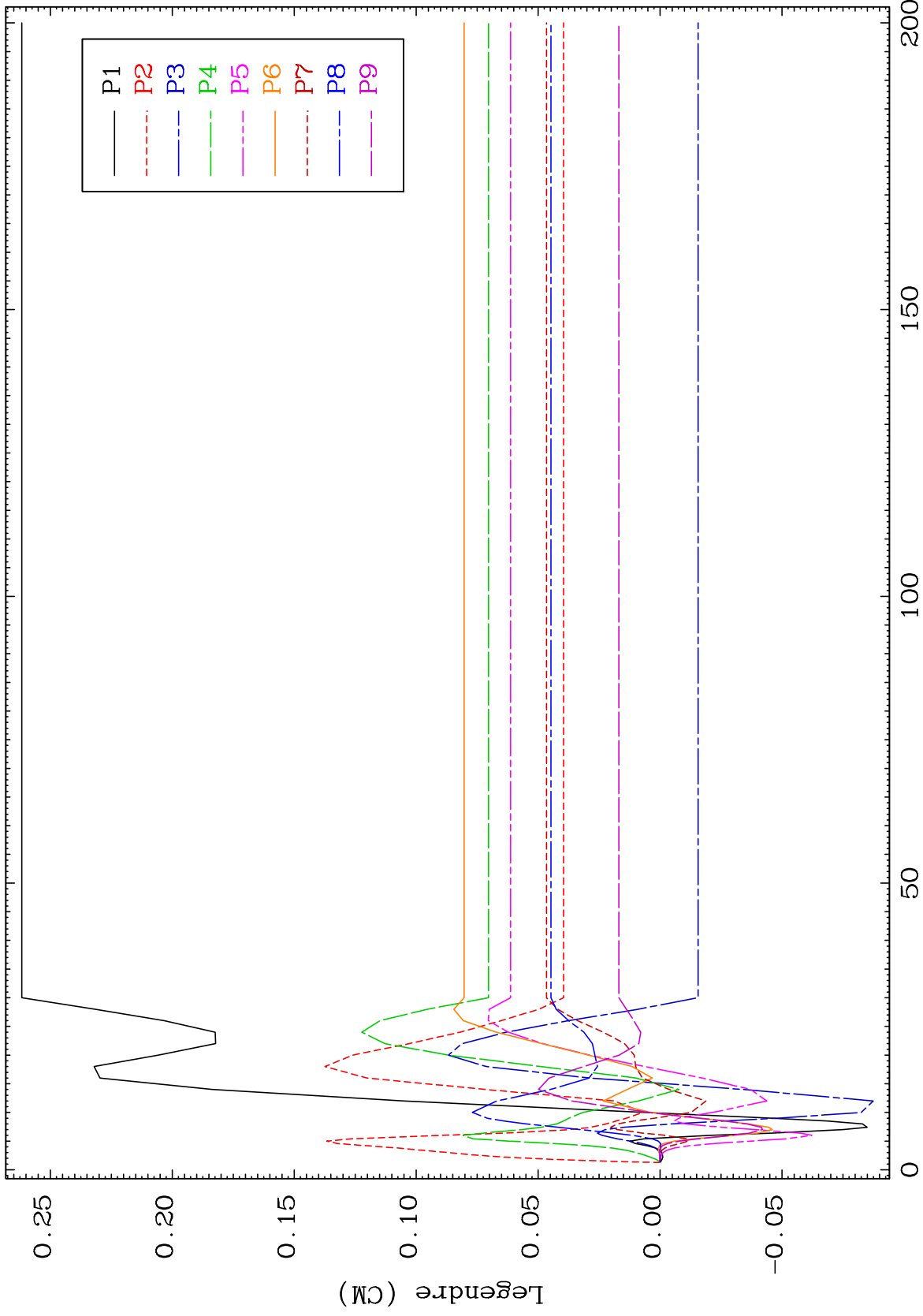




MAT 6443

1.264 MeV (n,n') Level  
Legendre Coefficients

64-Gd-158



65

Incident Energy (MeV)

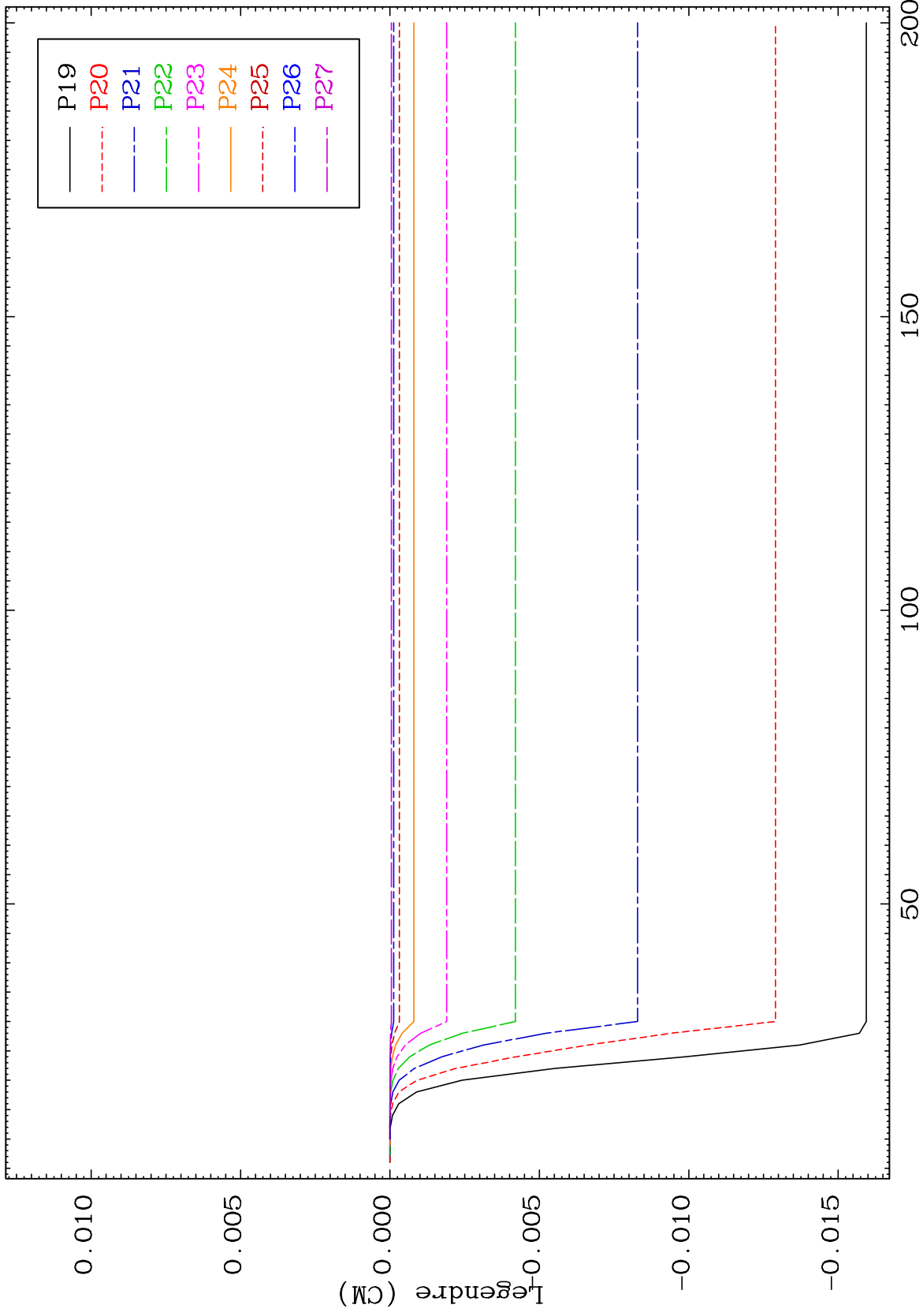
64-Gd-158



MAT 6443

1.264 MeV (n,n') Level  
Legendre Coefficients

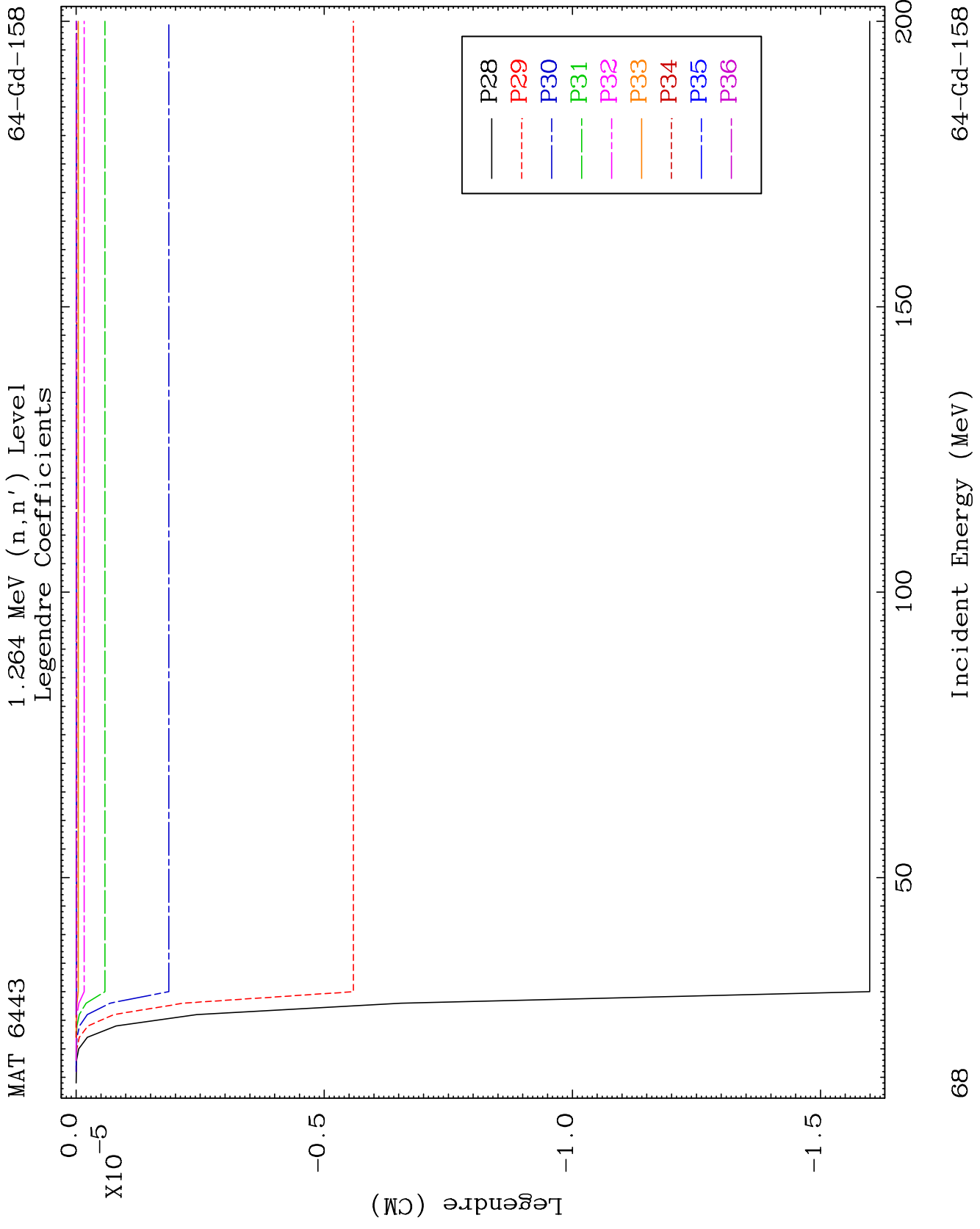
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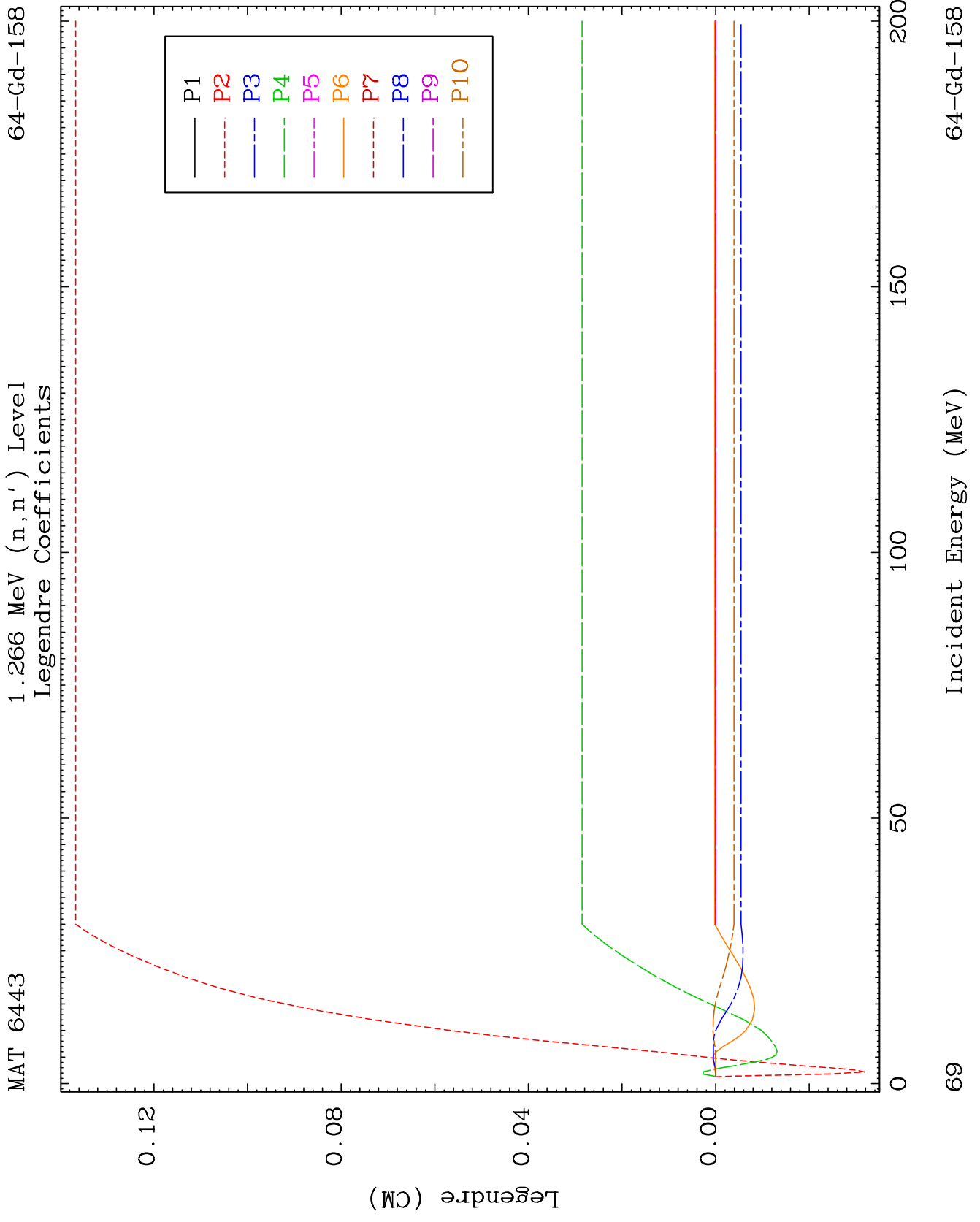


67

Incident Energy (MeV)

64-Gd-158

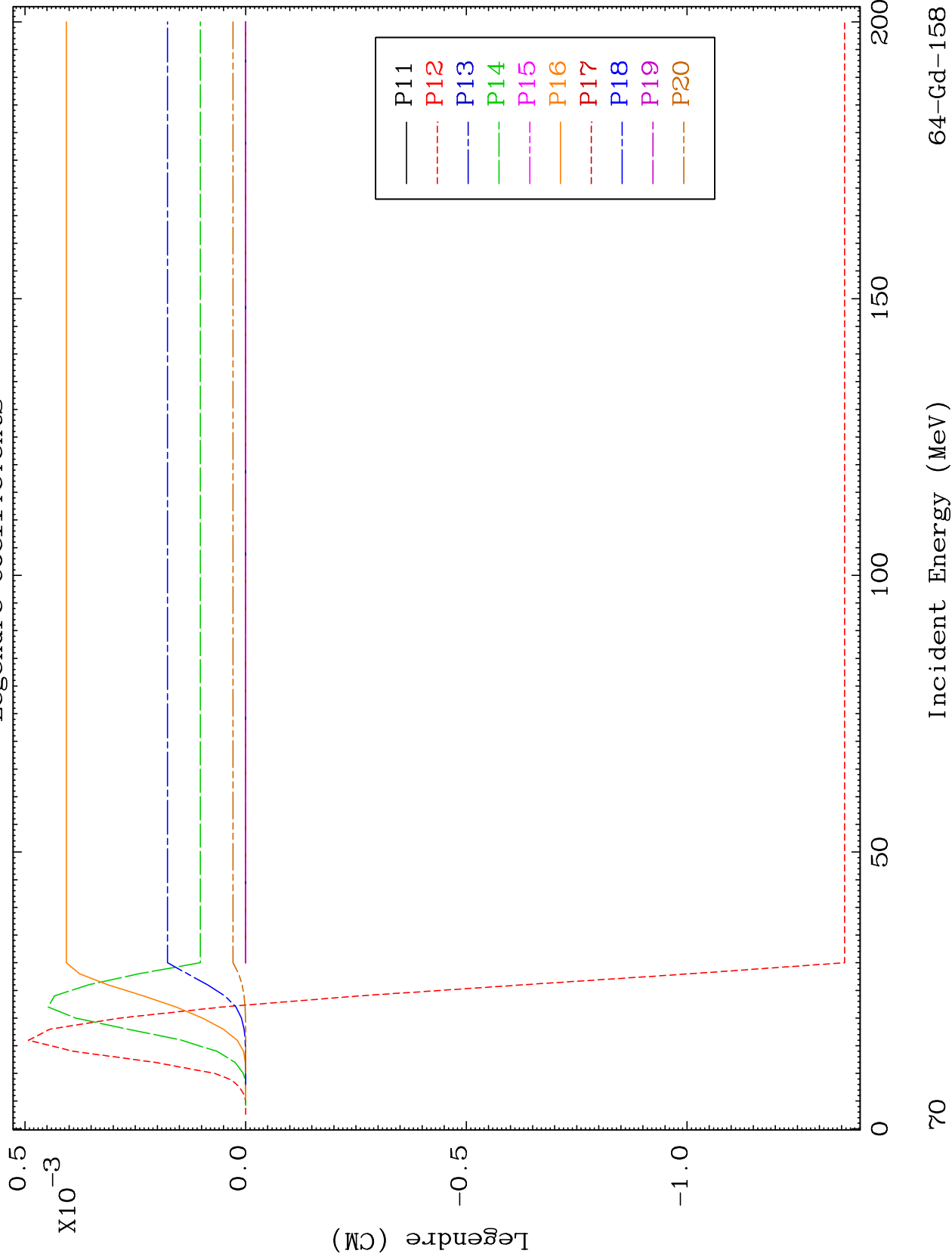




MAT 6443

1.266 MeV (n,n') Level  
Legendre Coefficients

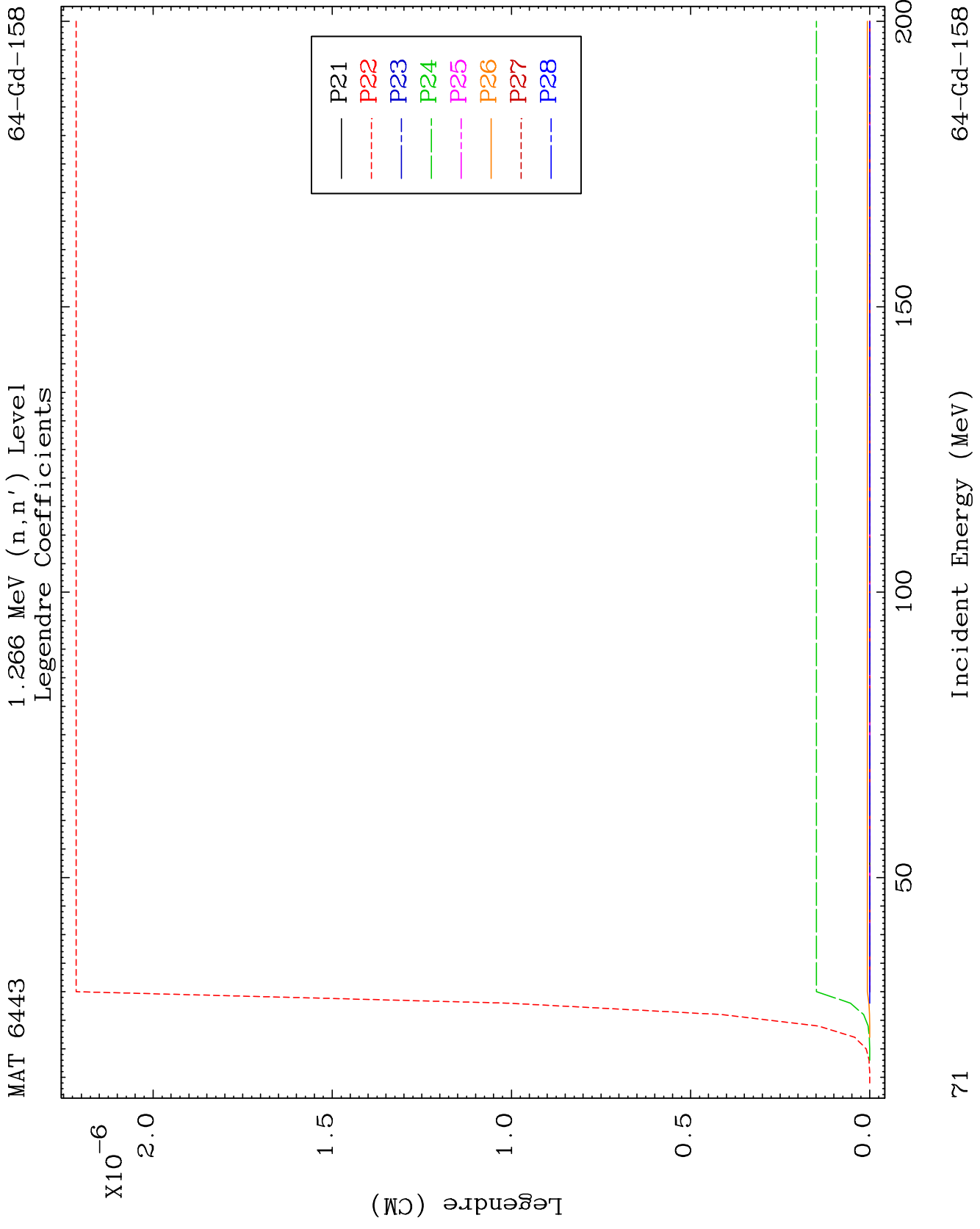
64-Gd-158



64-Gd-158

Incident Energy (MeV)

70



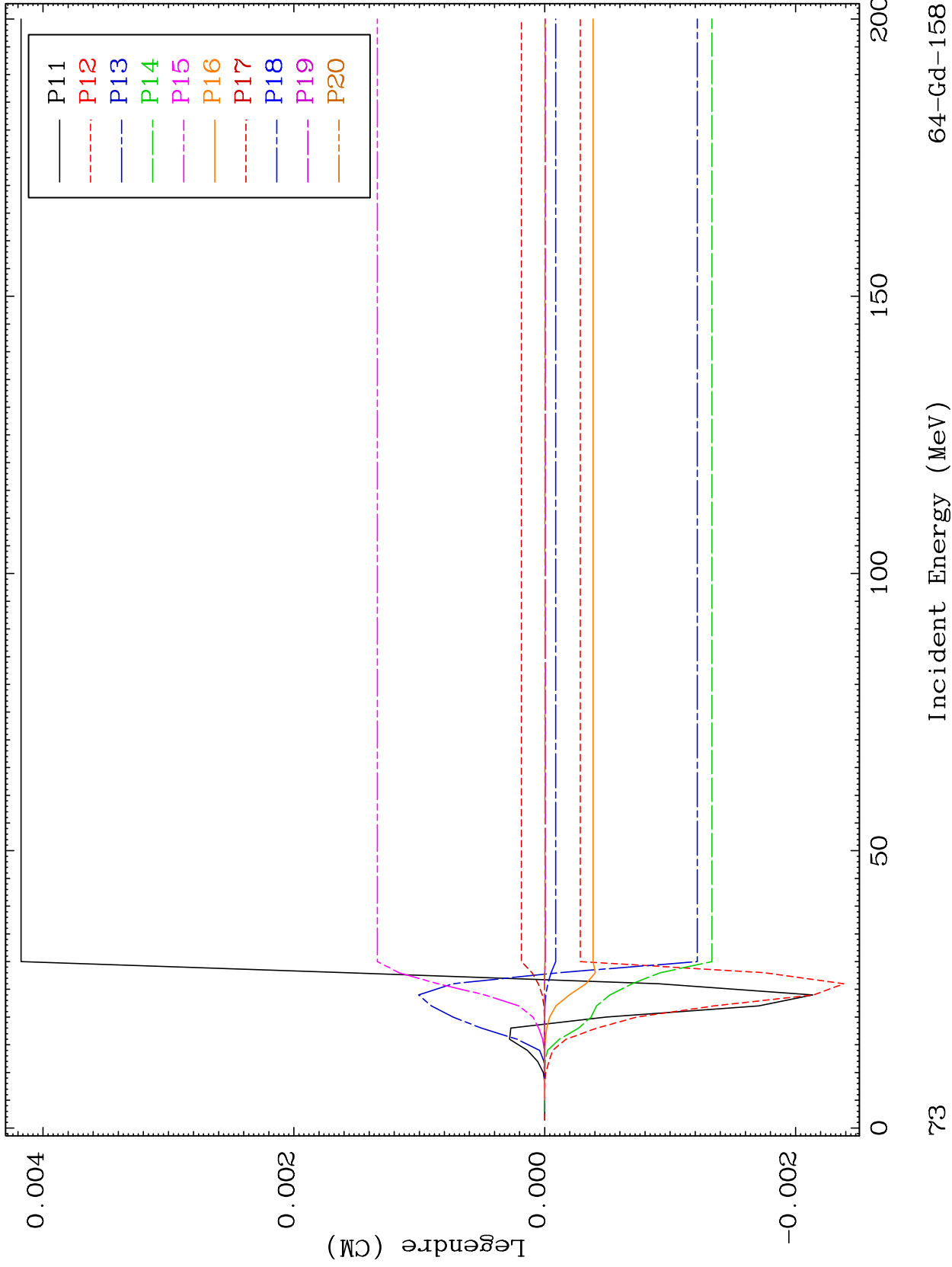




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1.350 MeV (n,n') Level  
Legendre Coefficients

64-Gd-158



73

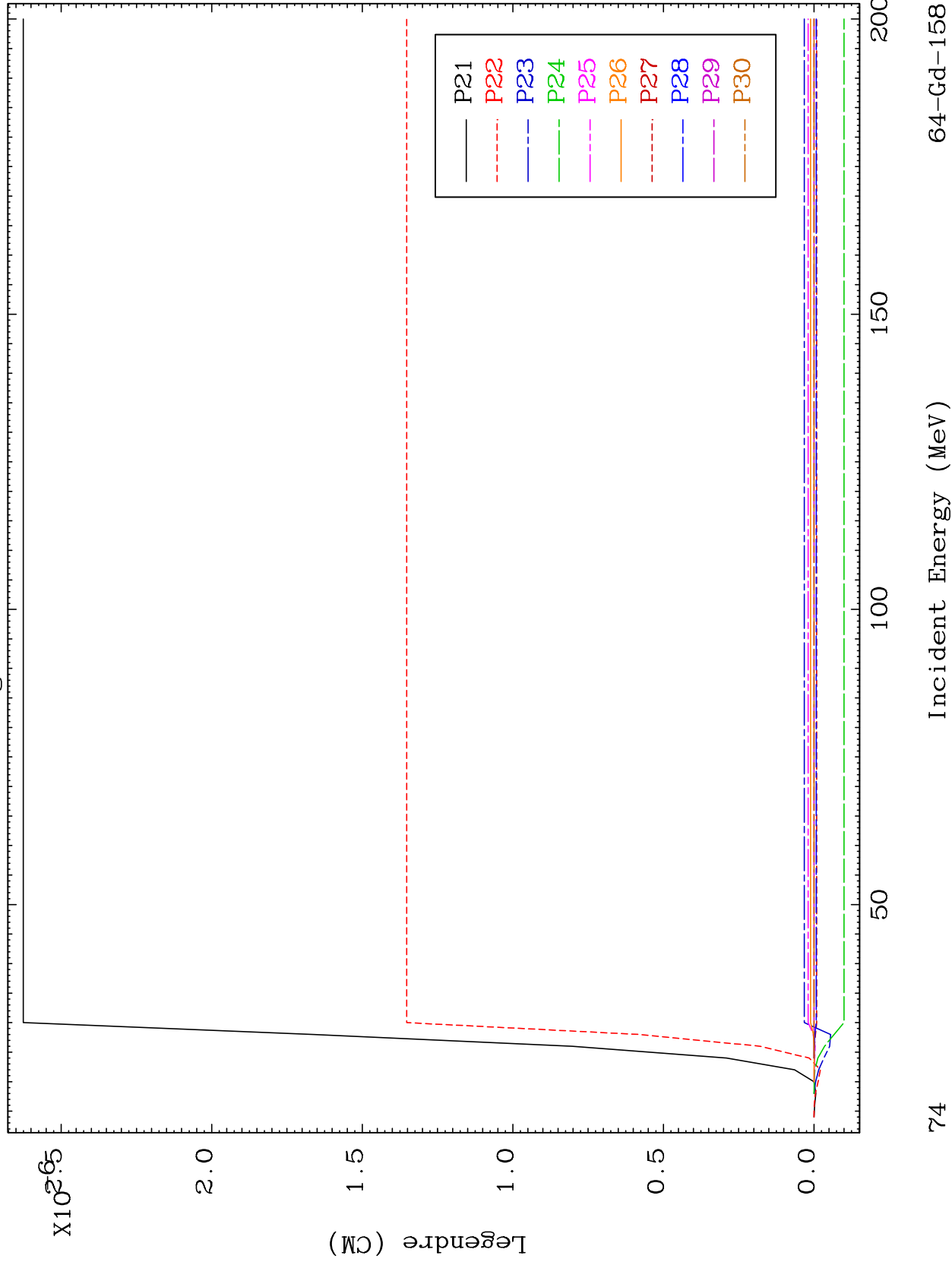
Incident Energy (MeV)

64-Gd-158

MAT 6443

1.350 MeV (n,n') Level  
Legendre Coefficients

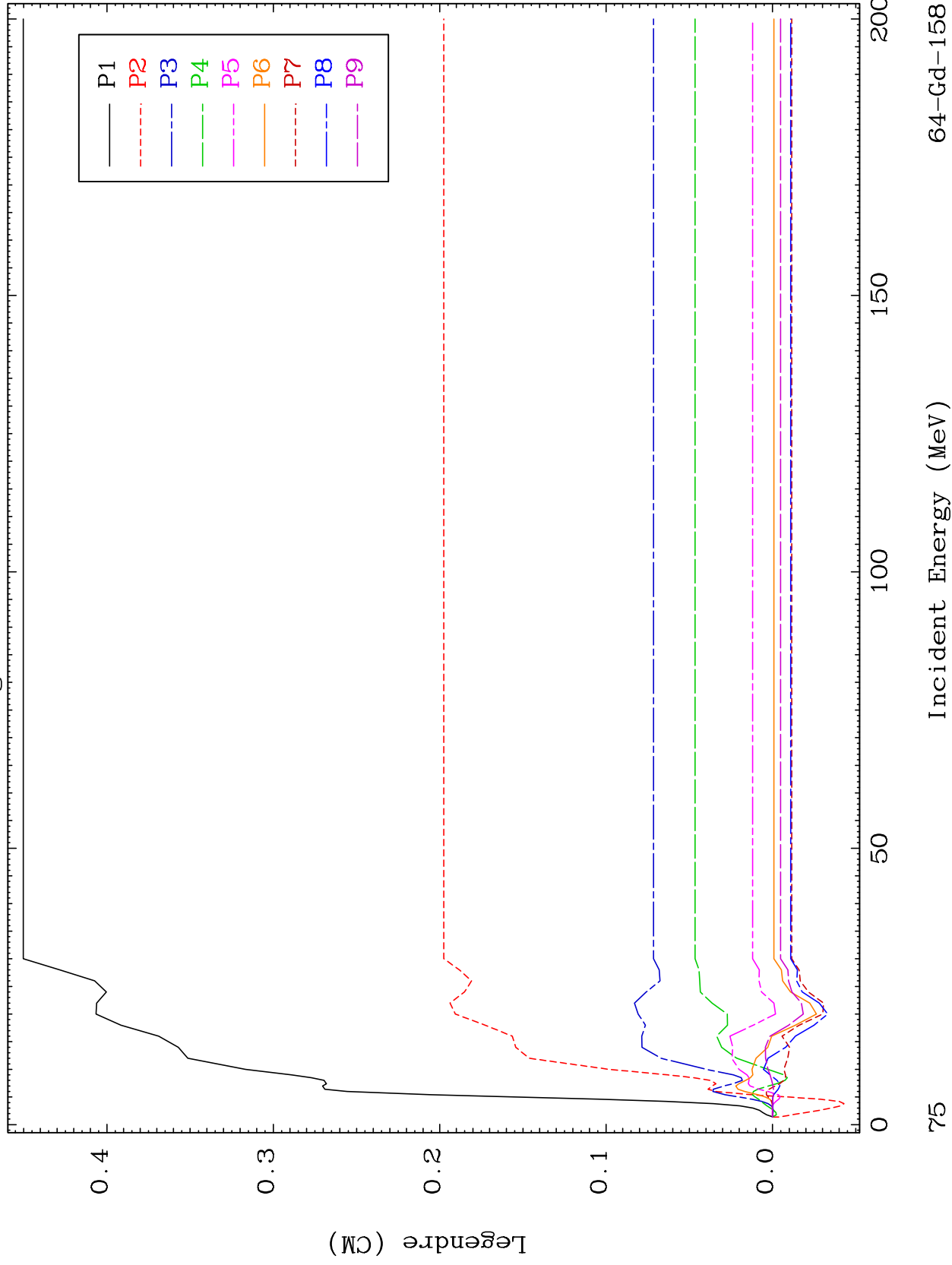
64-Gd-158



MAT 6443

1.358 MeV (n,n') Level  
Legendre Coefficients

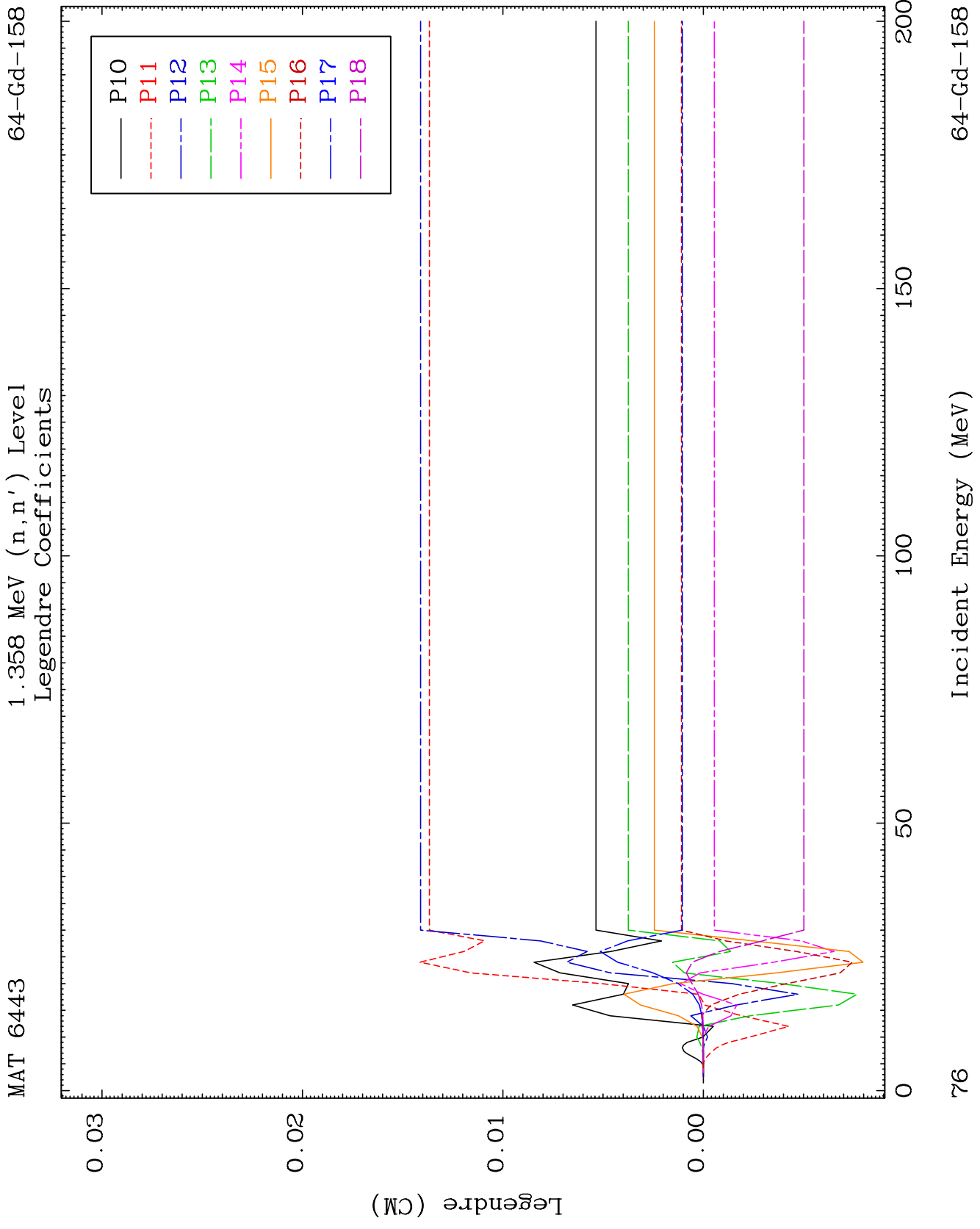
64-Gd-158



64-Gd-158

Incident Energy (MeV)

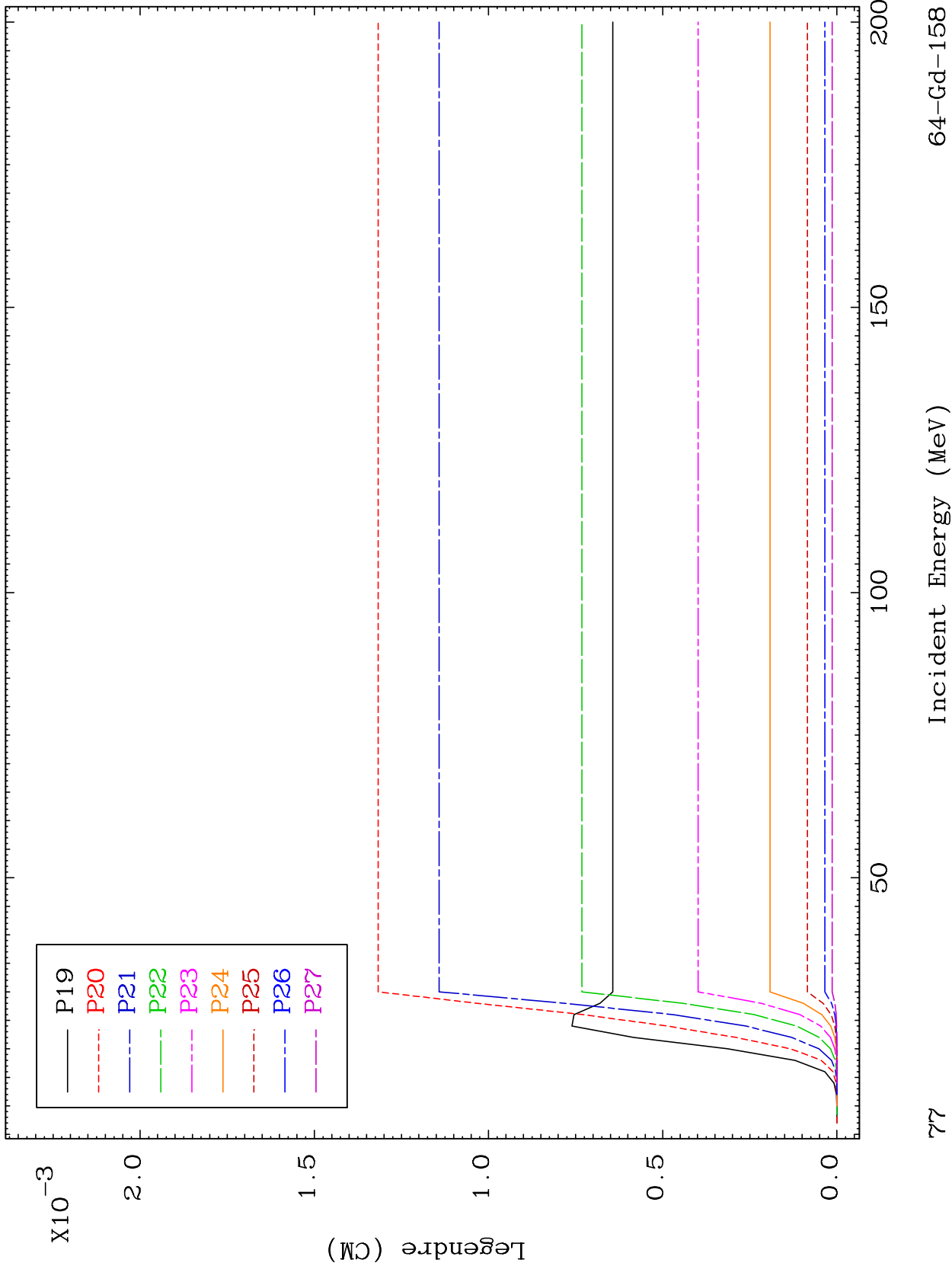
75



MAT 6443

1.358 MeV (n, n') Level  
Legendre Coefficients

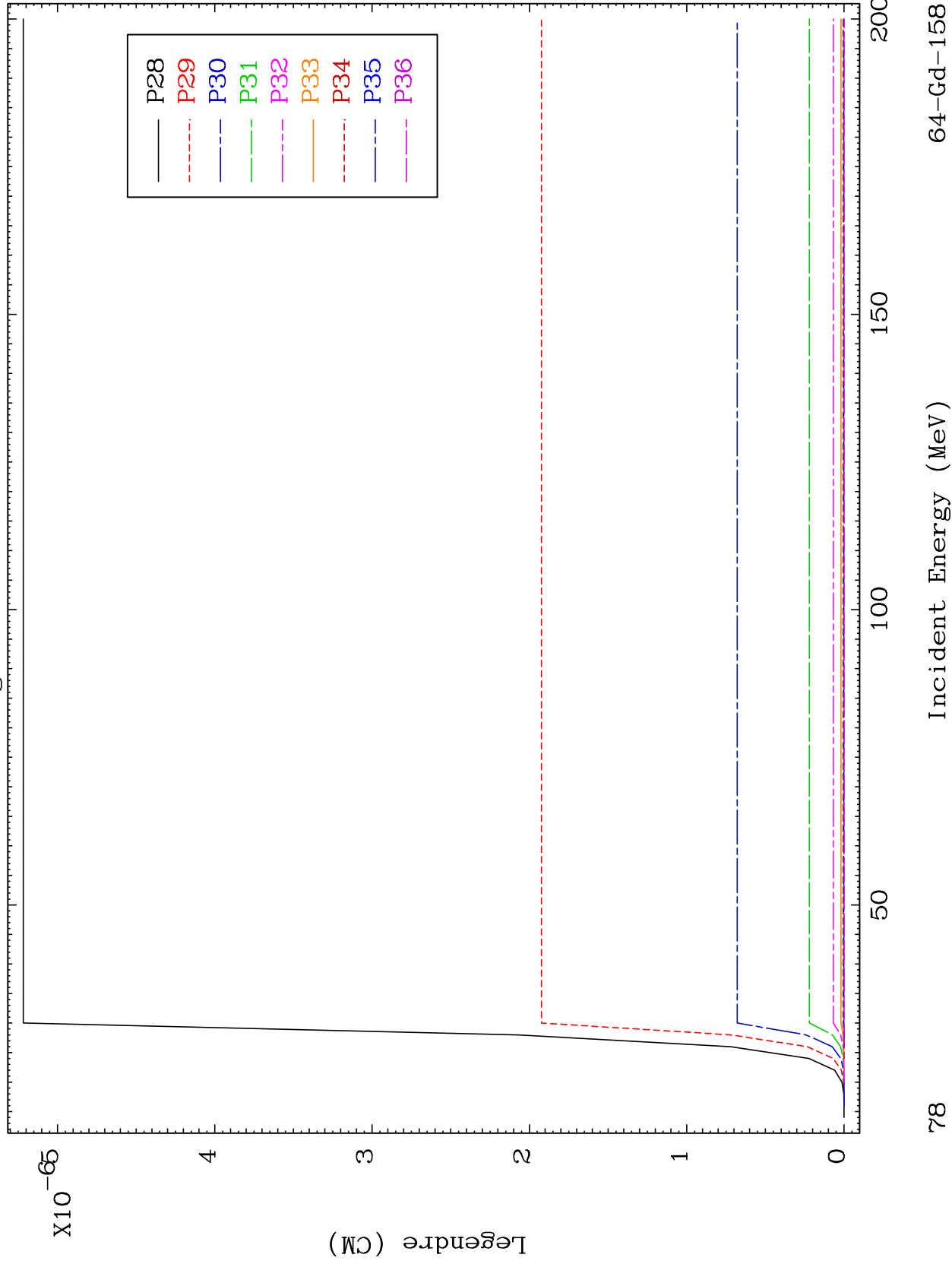
64-Gd-158



MAT 6443

1.358 MeV (n,n') Level  
Legendre Coefficients

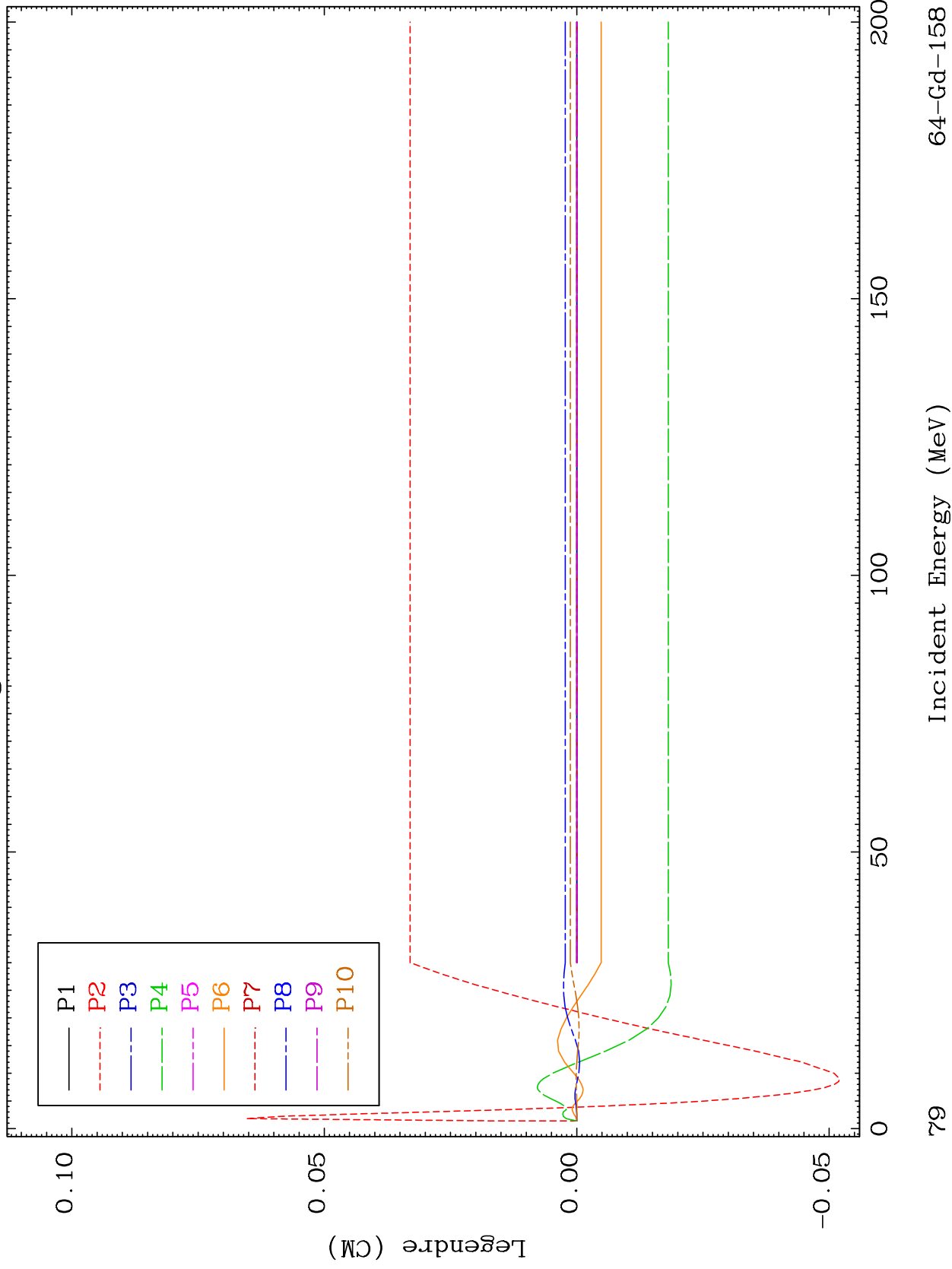
64-Gd-158



MAT 6443

1.372 MeV (n,n') Level  
Legendre Coefficients

64-Gd-158

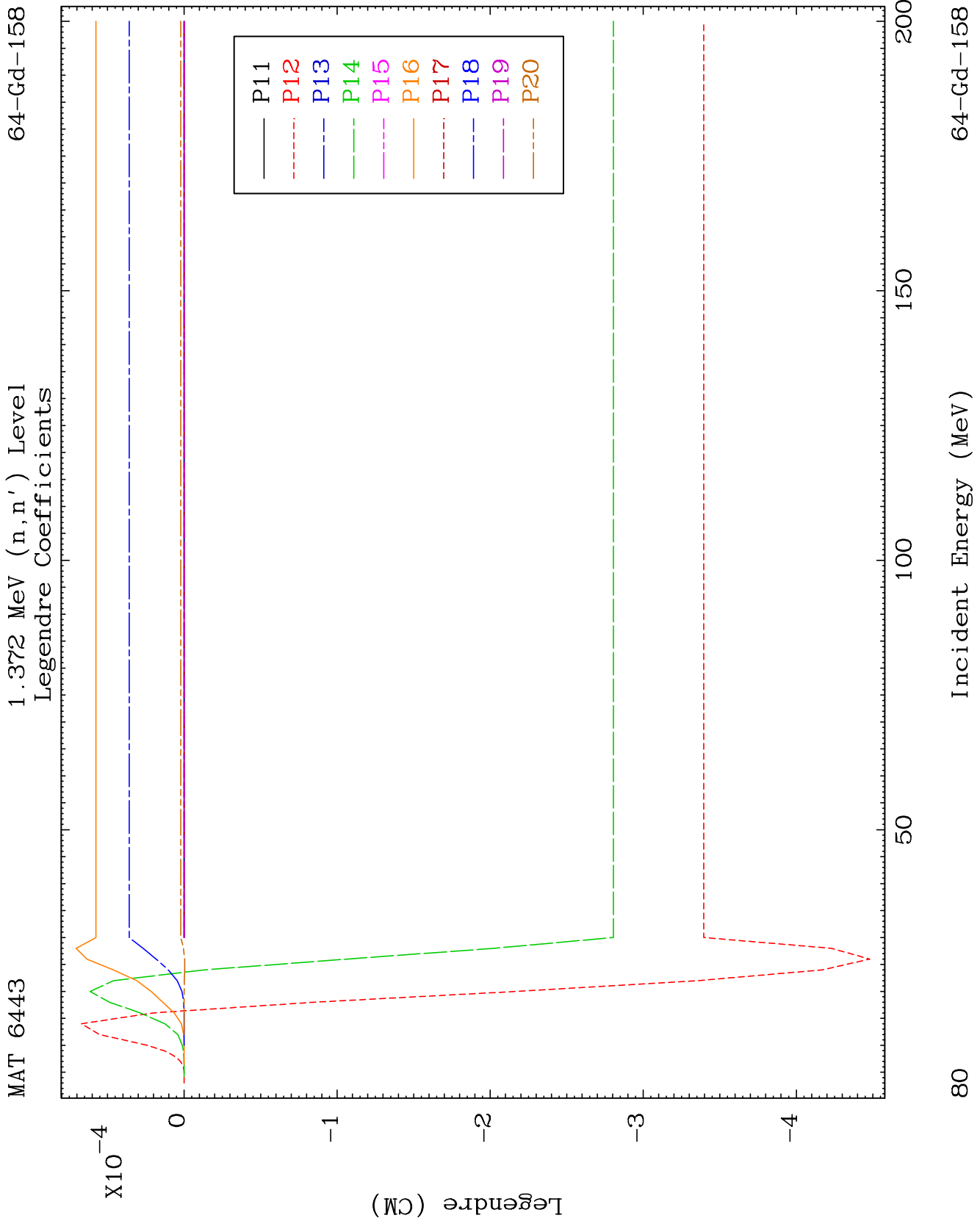


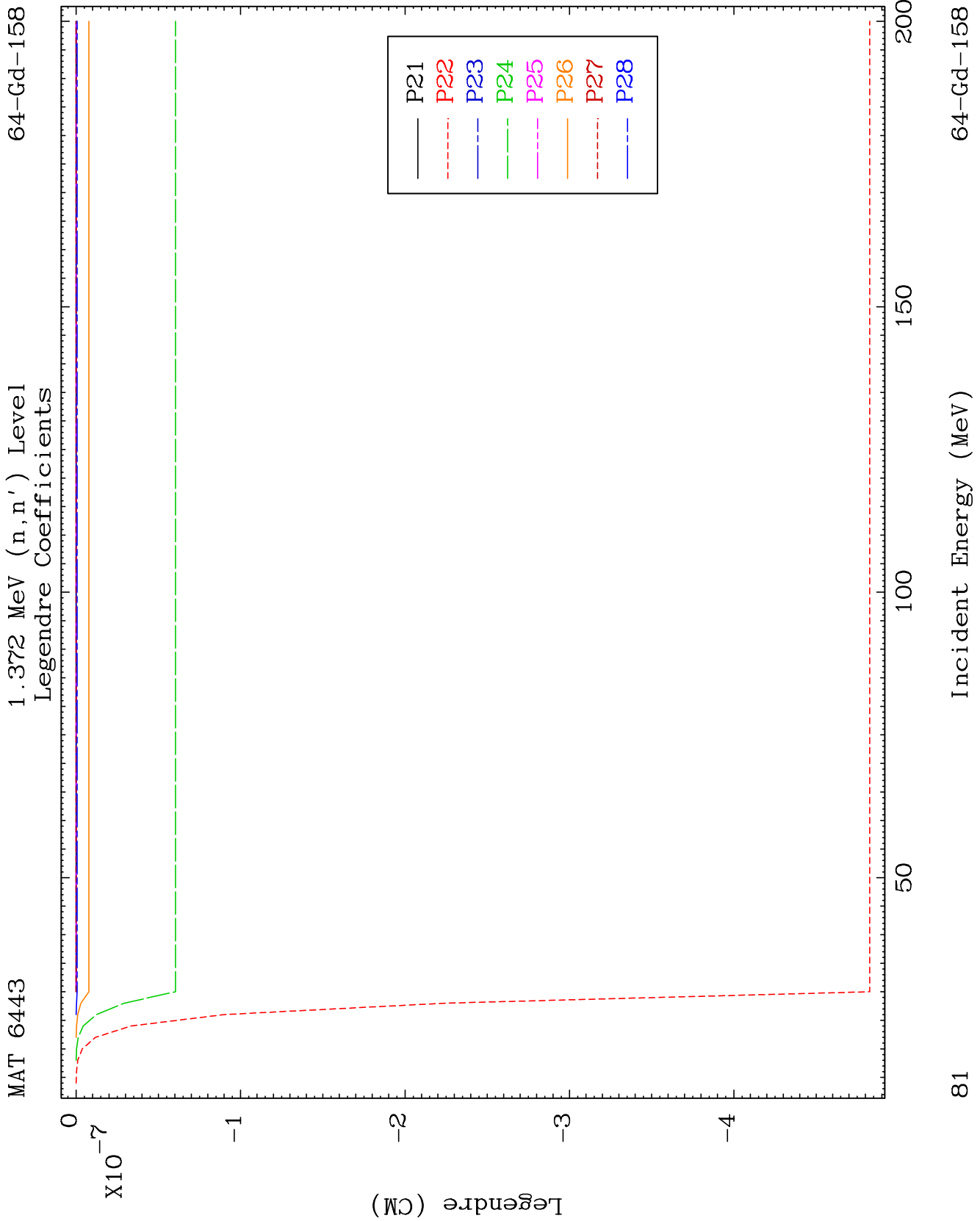
64-Gd-158

Incident Energy (MeV)

79



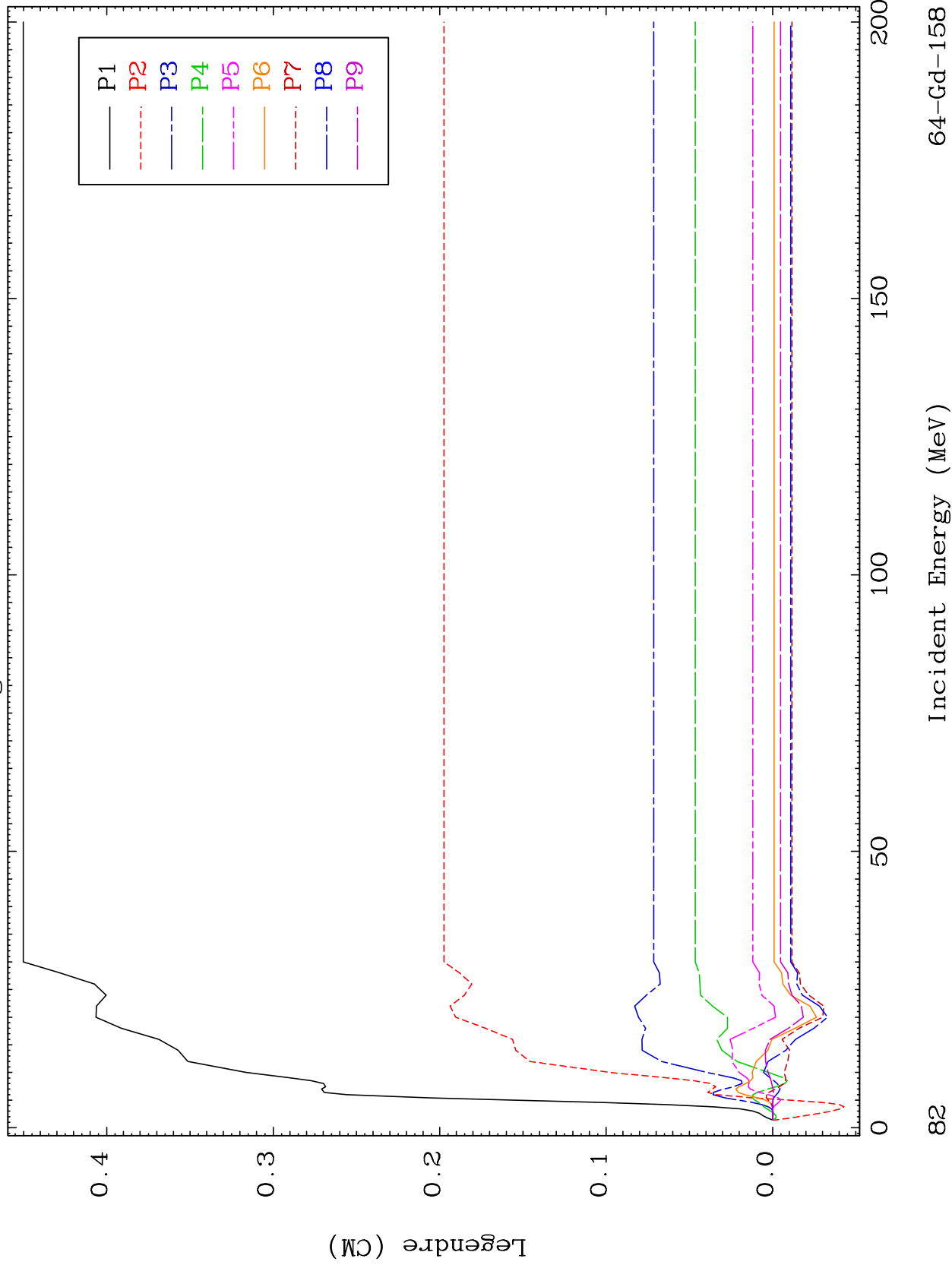




MAT 6443

1.381 MeV (n,n') Level  
Legendre Coefficients

64-Gd-158



82

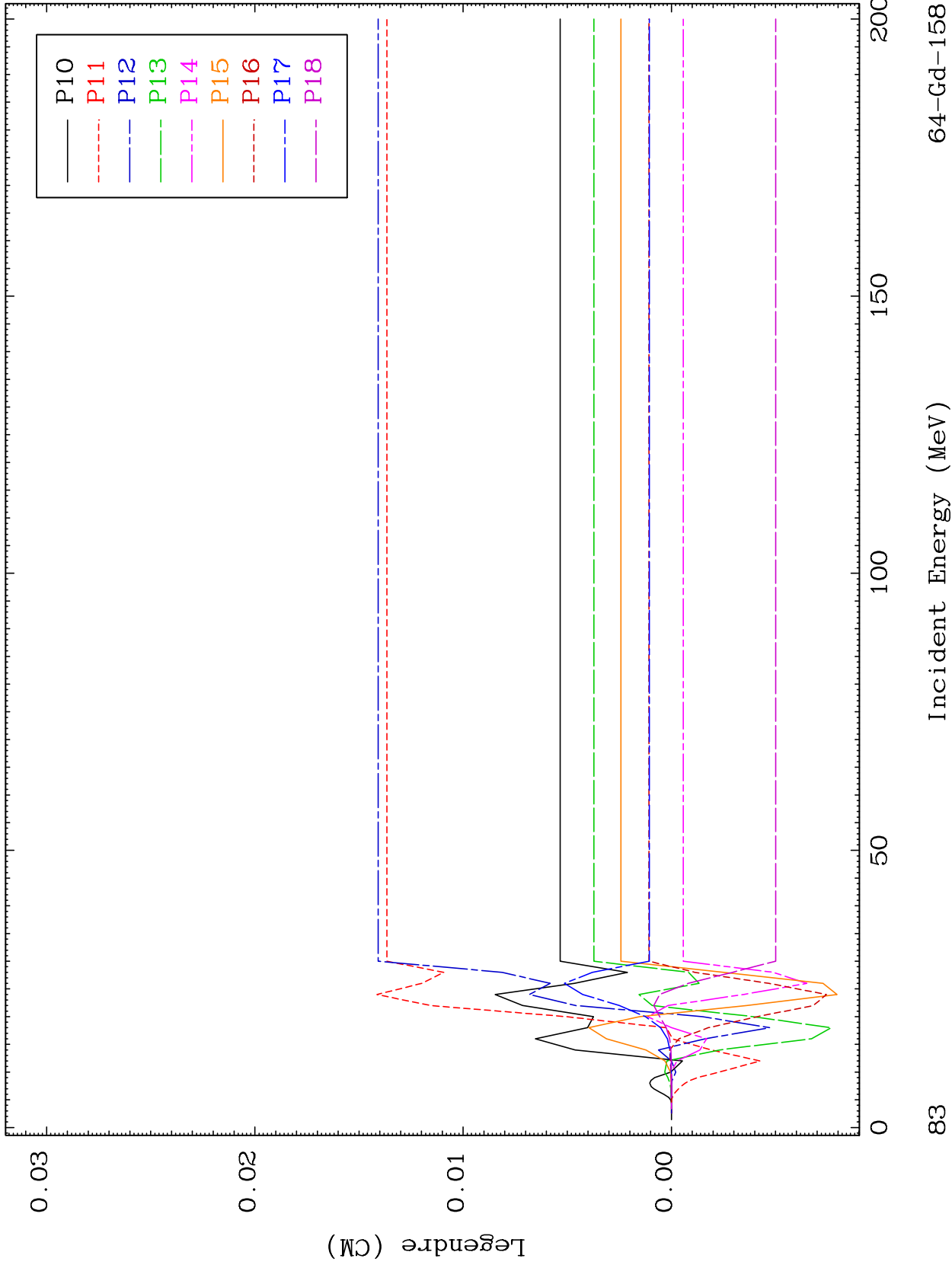
Incident Energy (MeV)

64-Gd-158

MAT 6443

1.381 MeV (n,n') Level  
Legendre Coefficients

64-Gd-158



64-Gd-158

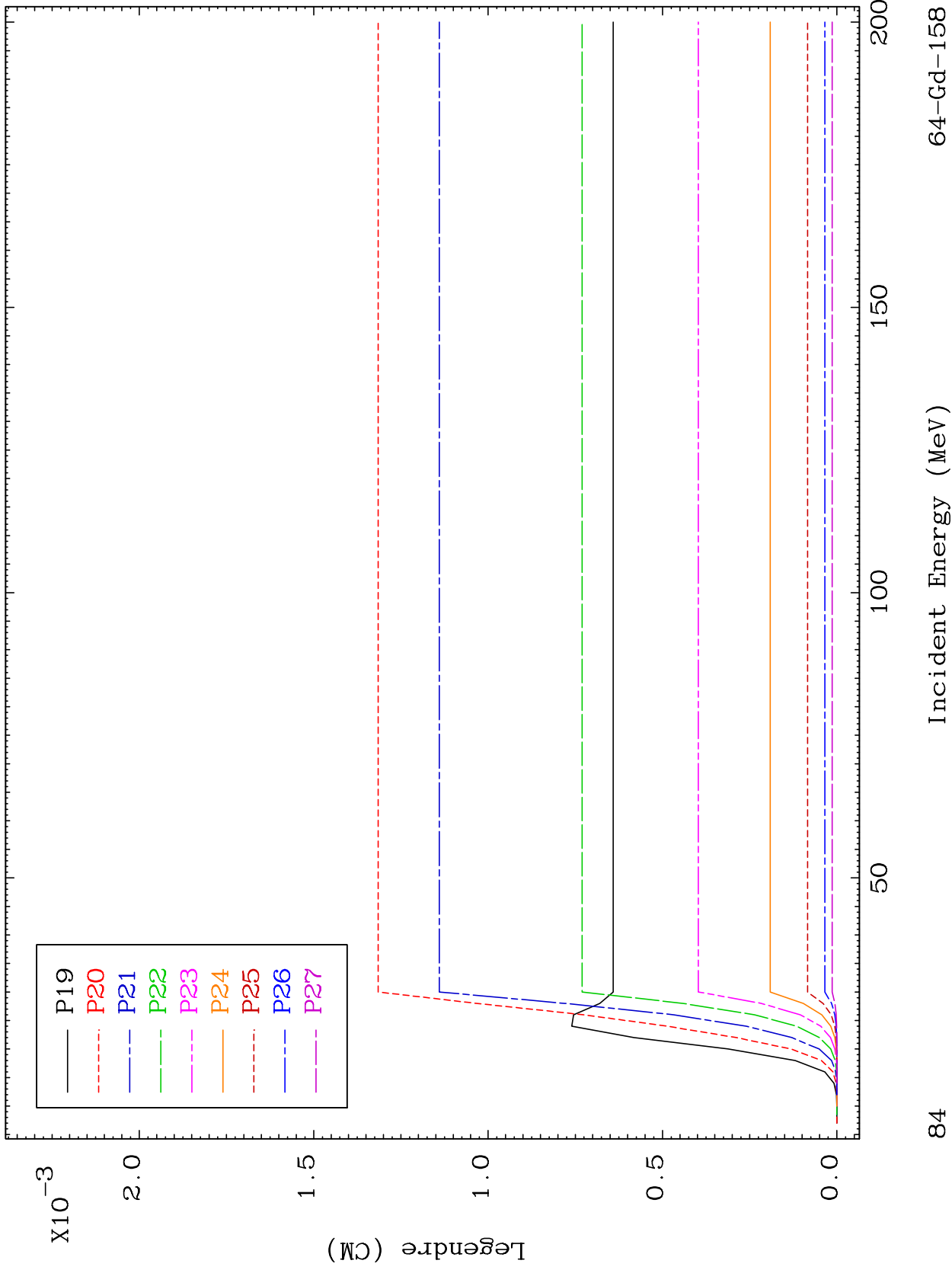
Incident Energy (MeV)

83

MAT 6443

1.381 MeV (n,n') Level  
Legendre Coefficients

64-Gd-158



84

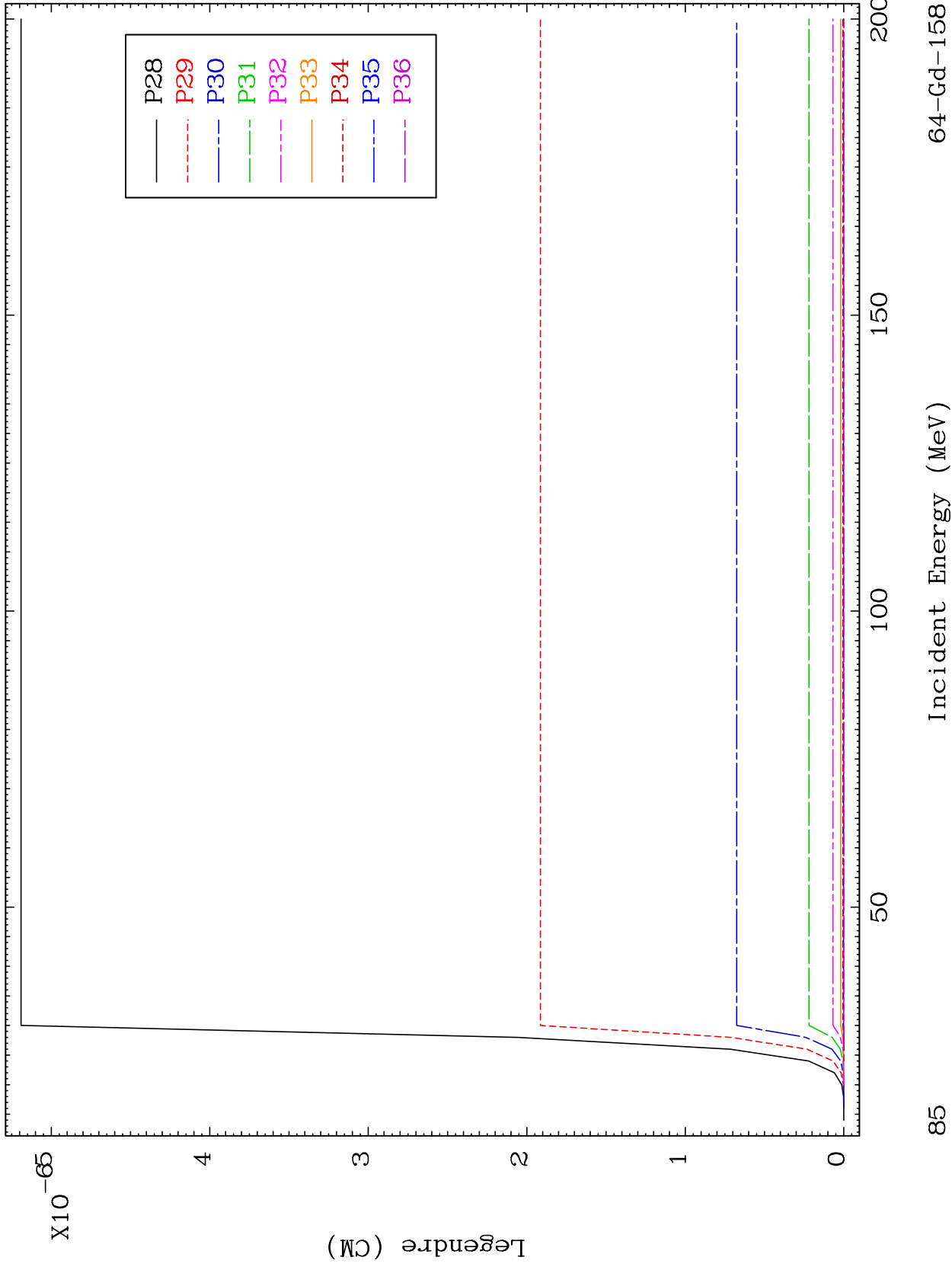
Incident Energy (MeV)

64-Gd-158

MAT 6443

1.381 MeV (n,n') Level  
Legendre Coefficients

64-Gd-158



85

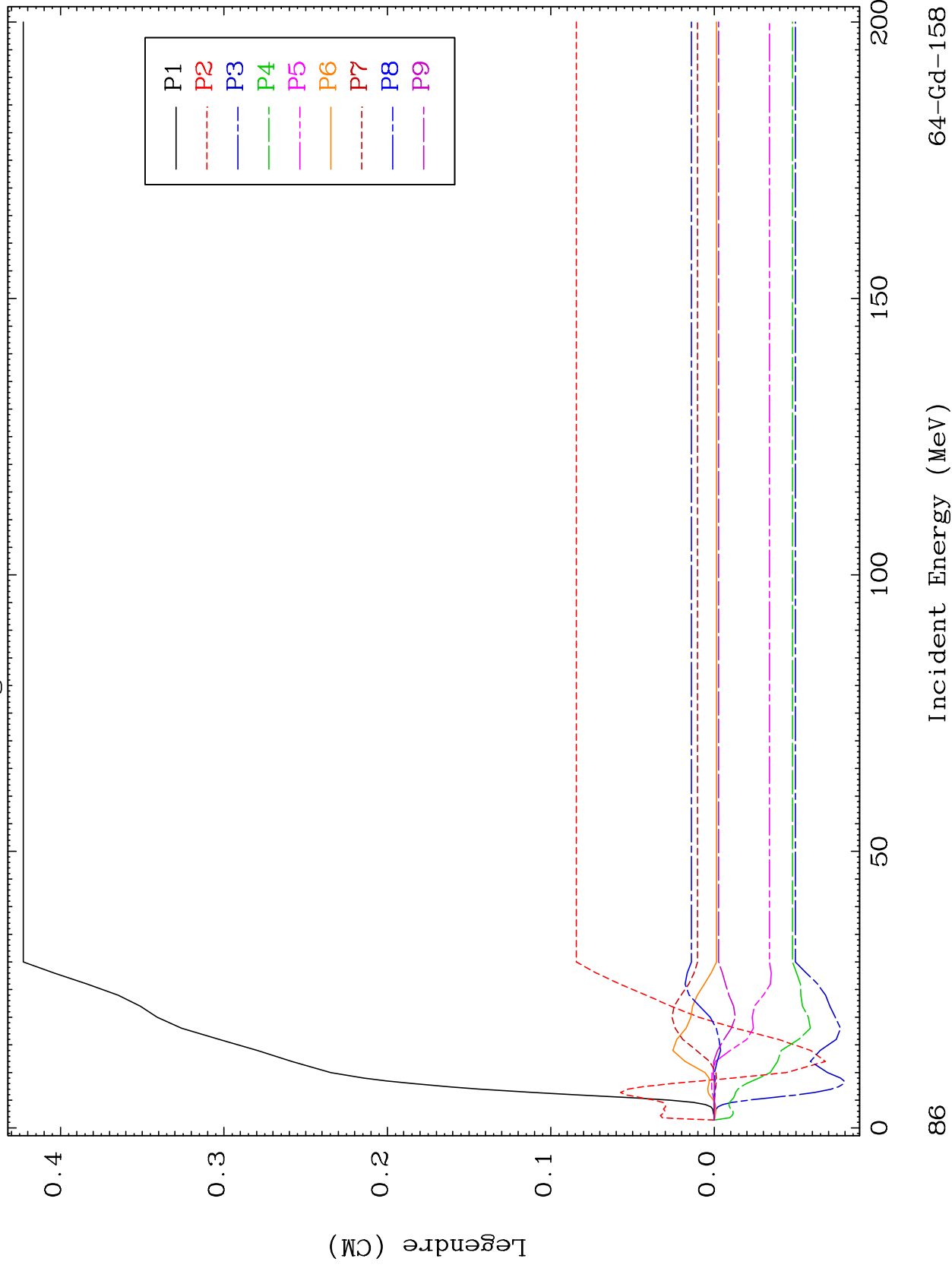
Incident Energy (MeV)

64-Gd-158

MAT 6443

1.391 MeV (n,n') Level  
Legendre Coefficients

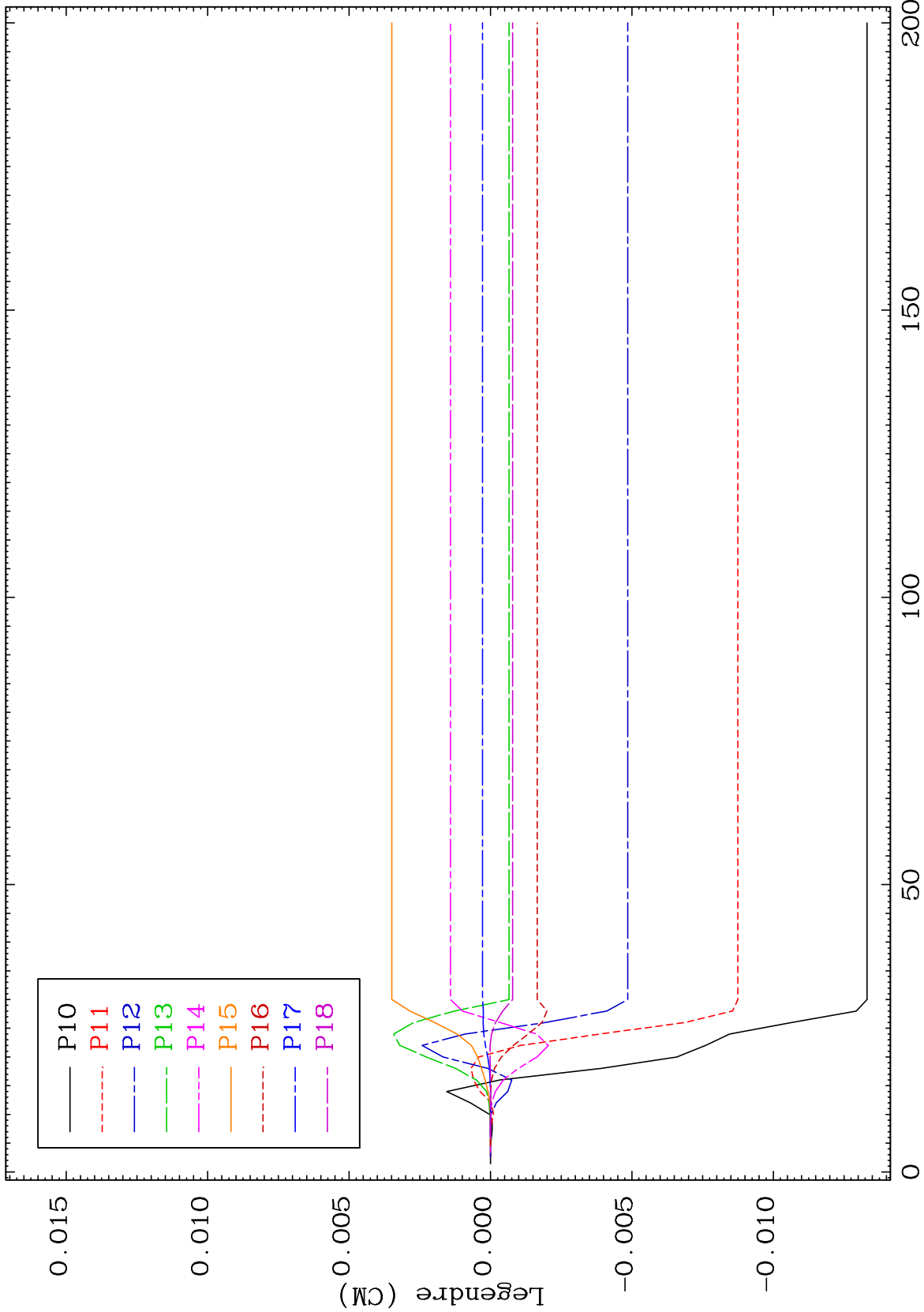
64-Gd-158



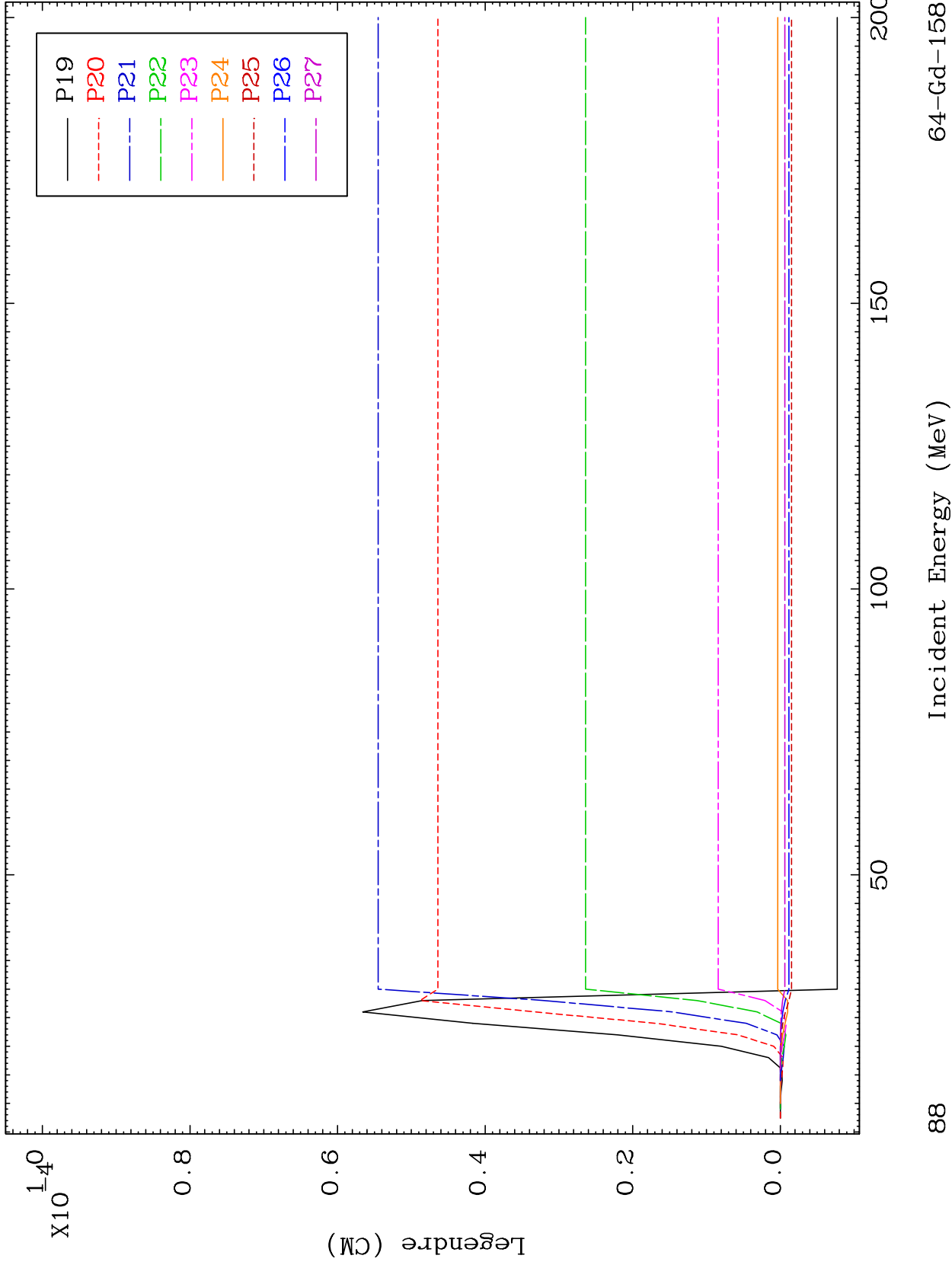
86

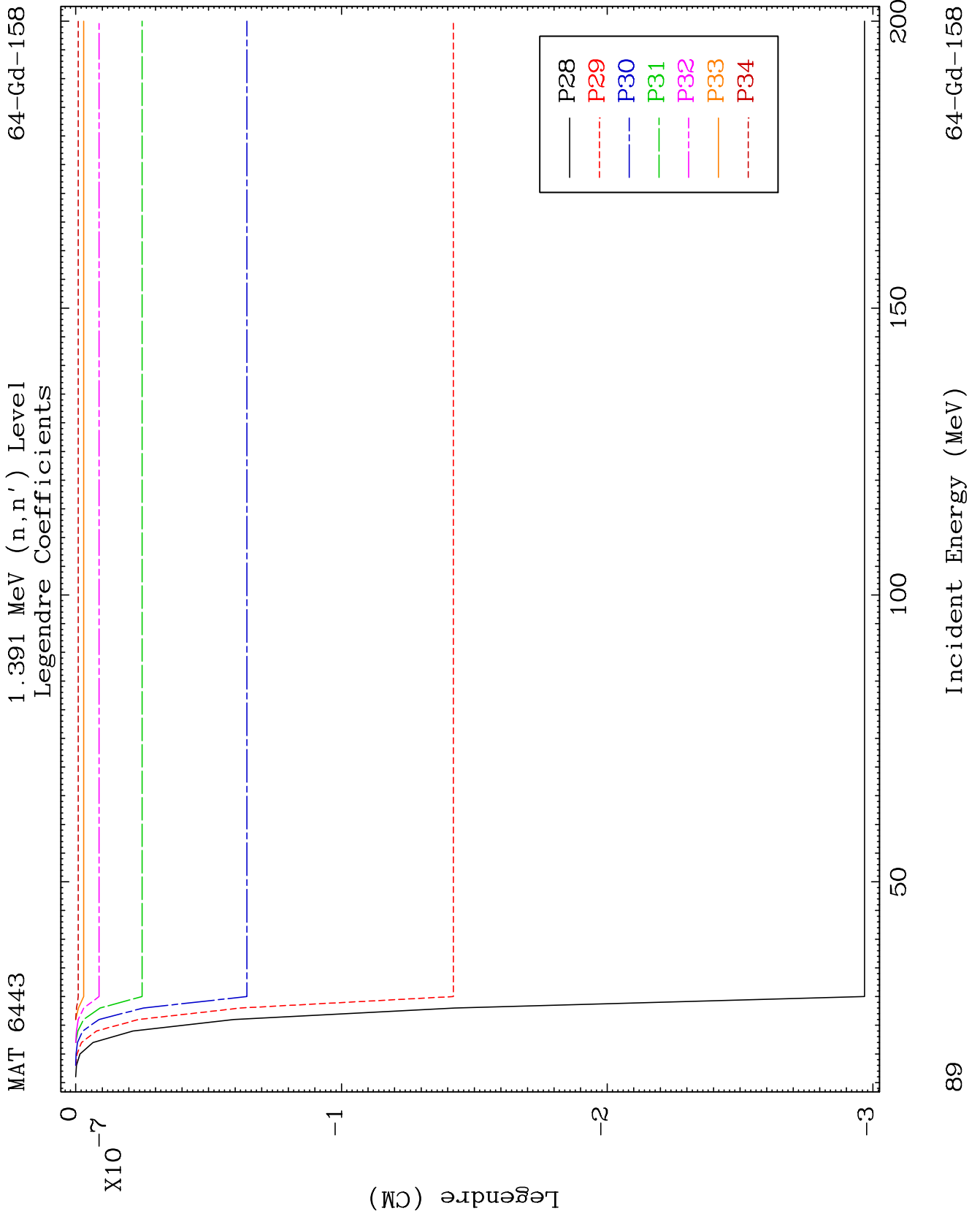
Incident Energy (MeV)

64-Gd-158





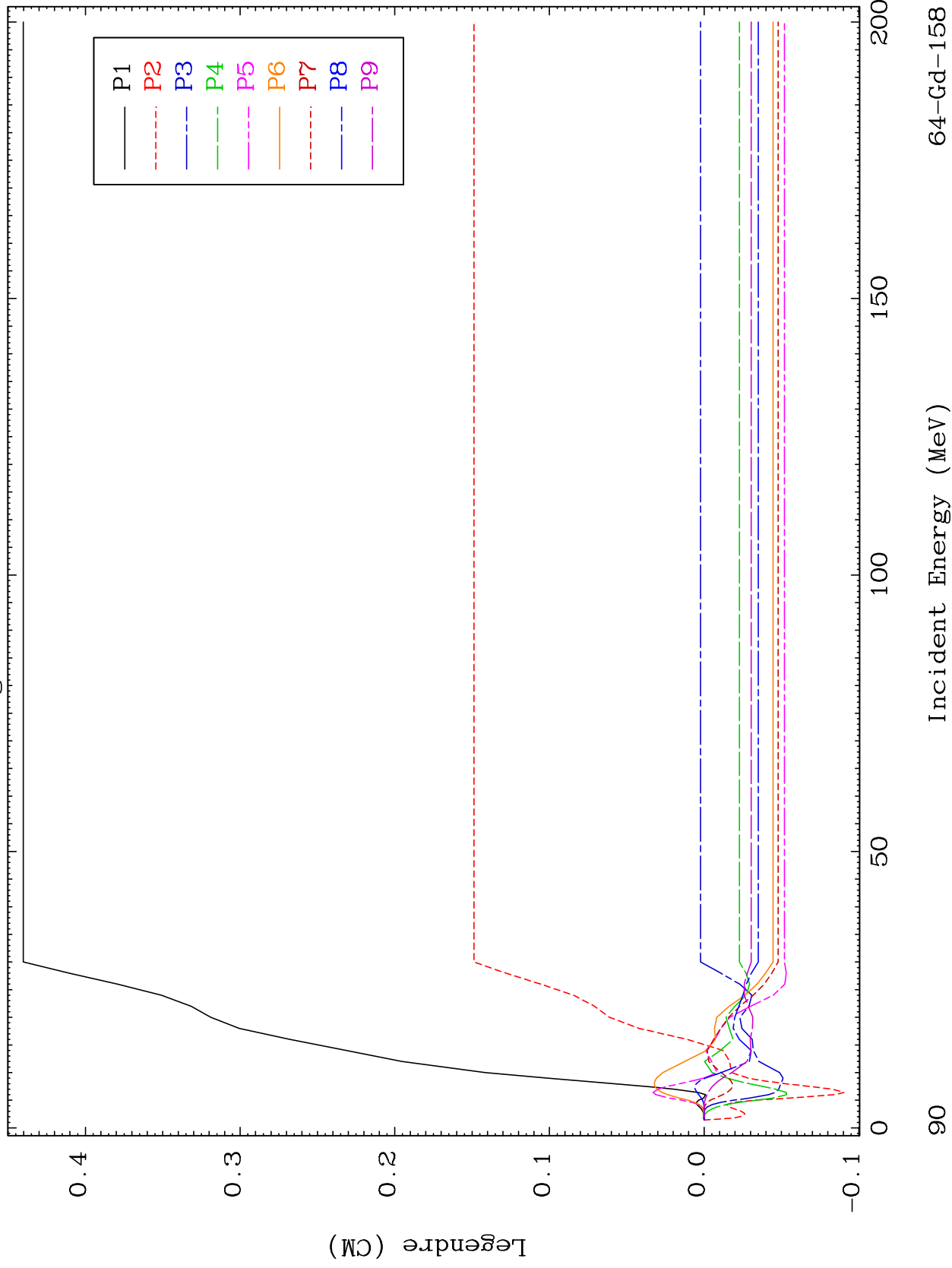




MAT 6443

1.403 MeV (n,n') Level  
Legendre Coefficients

64-Gd-158



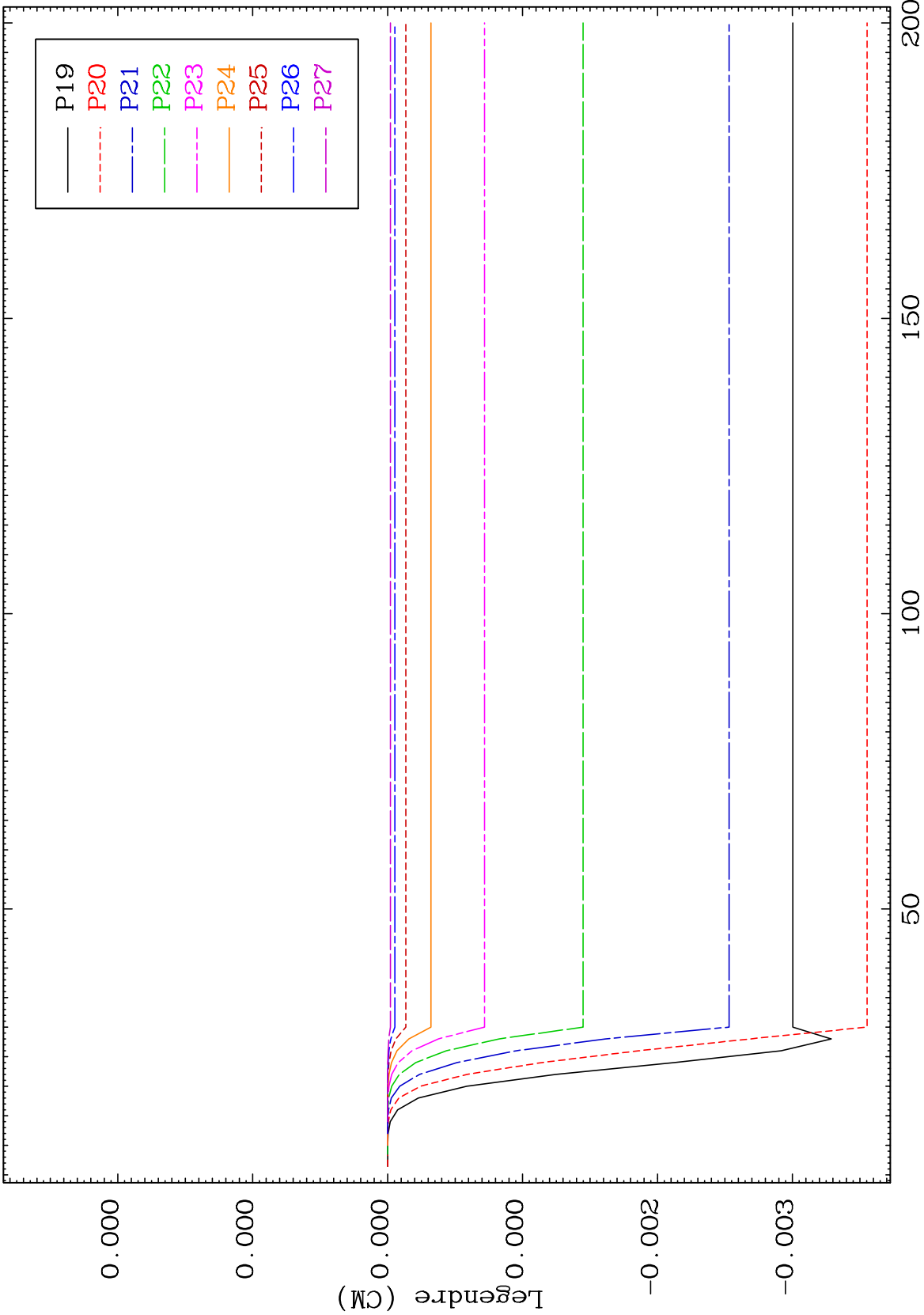
64-Gd-158



MAT 6443

1.403 MeV (n,n') Level  
Legendre Coefficients

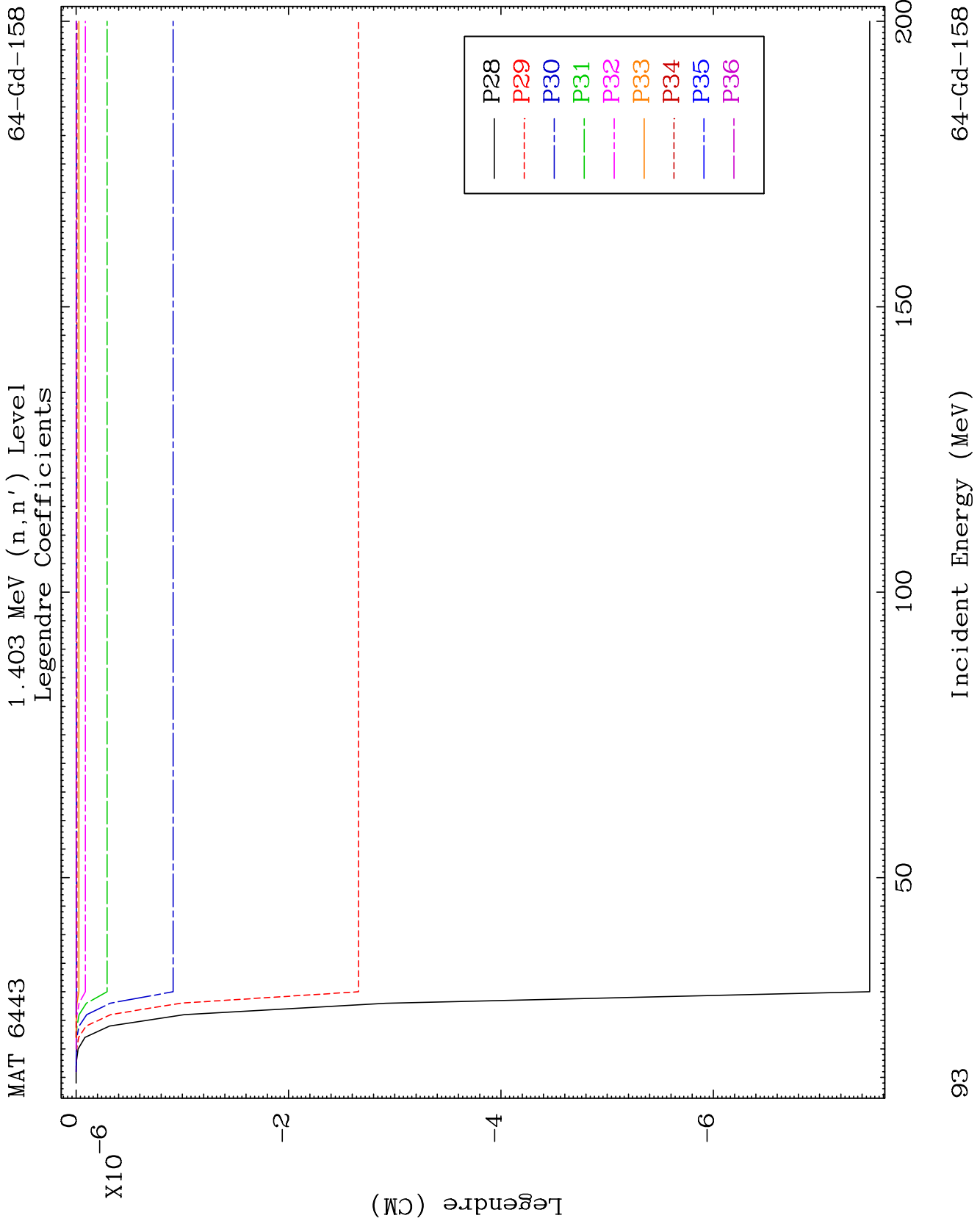
64-Gd-158



92

Incident Energy (MeV)

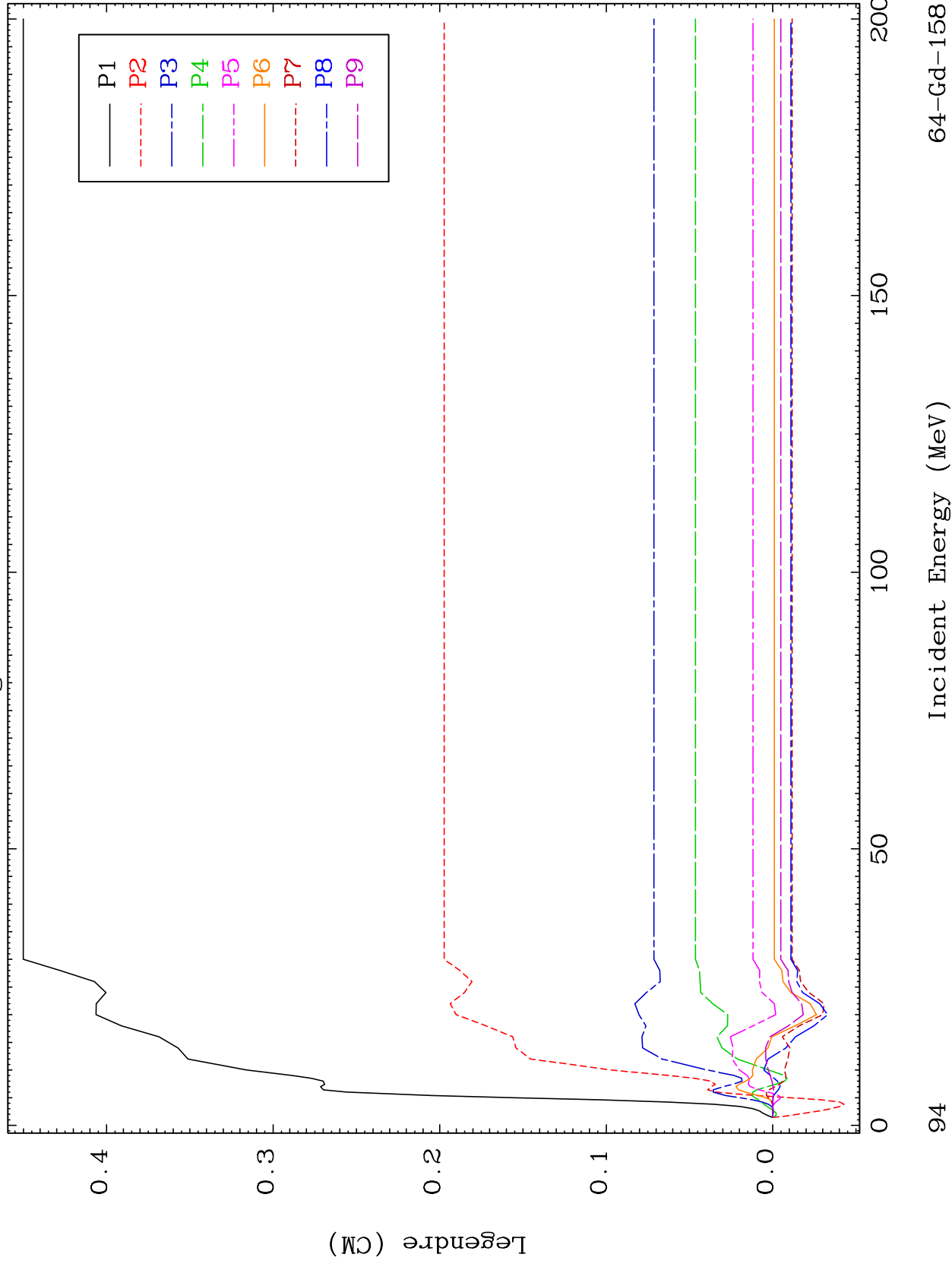
64-Gd-158



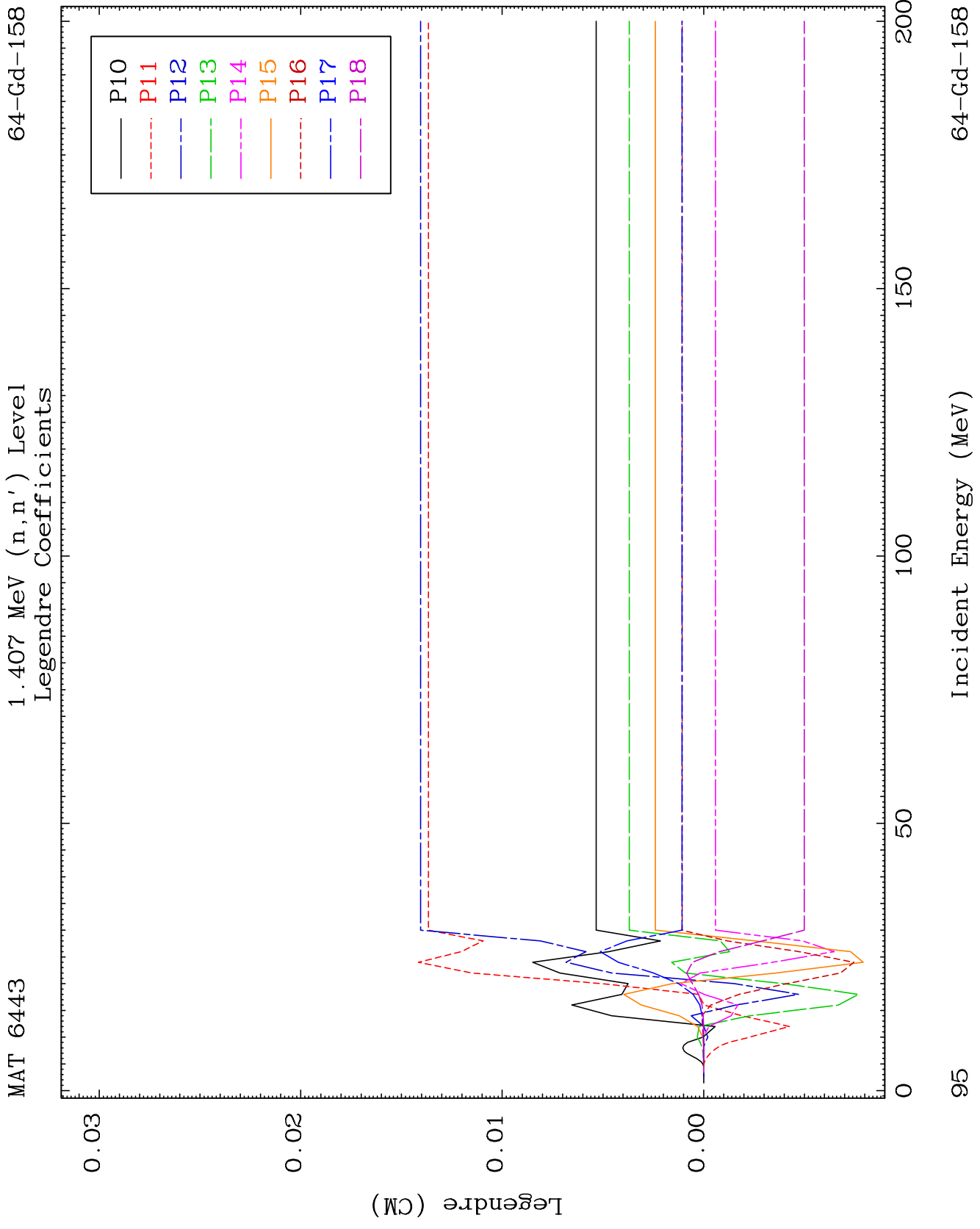
MAT 6443

1.407 MeV (n,n') Level  
Legendre Coefficients

64-Gd-158



94

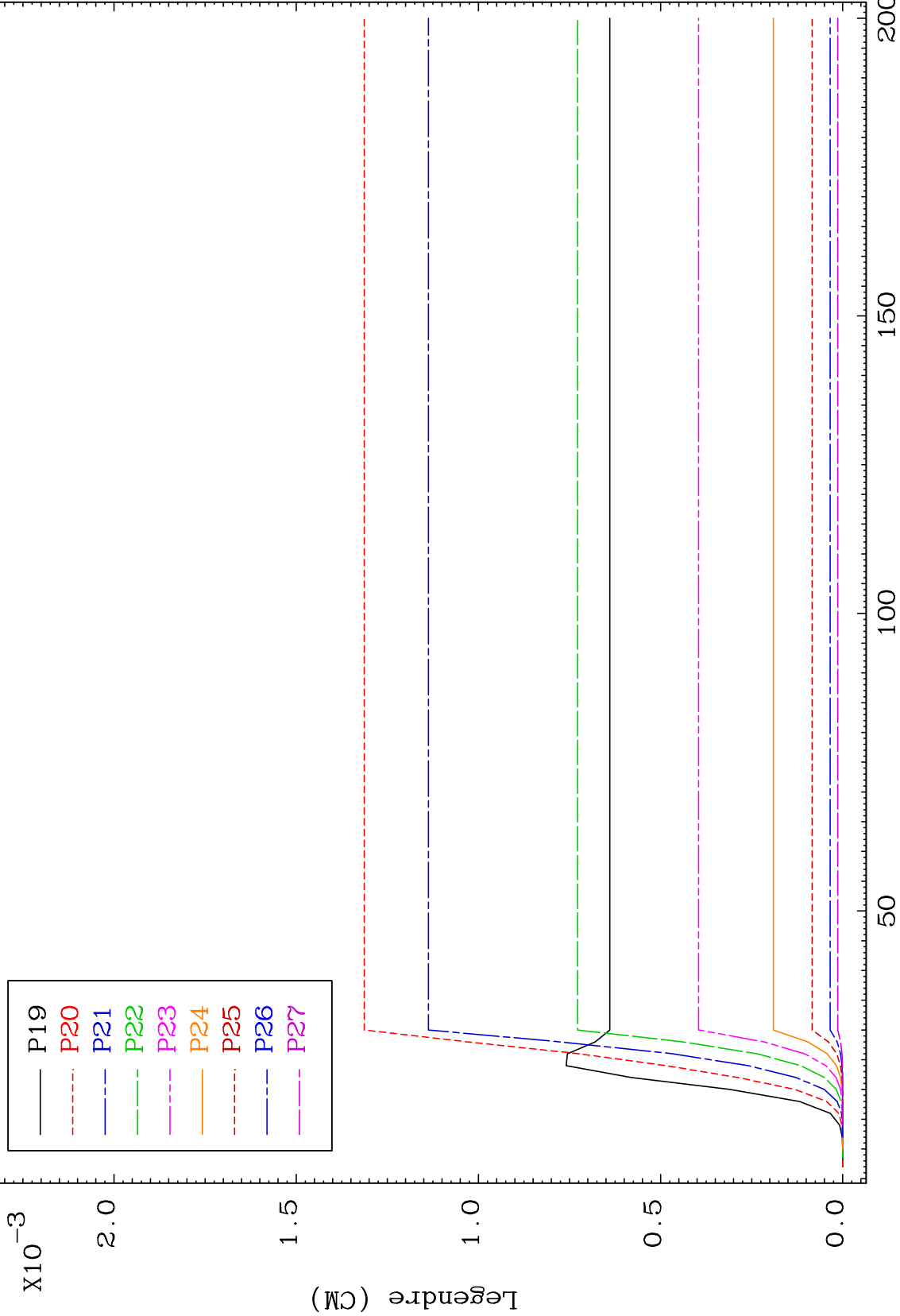
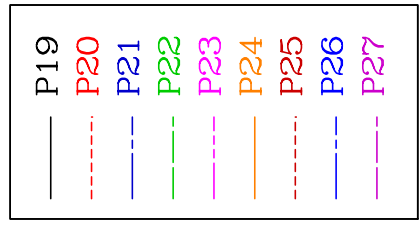




MAT 6443

1.407 MeV (n,n') Level  
Legendre Coefficients

64-Gd-158



96

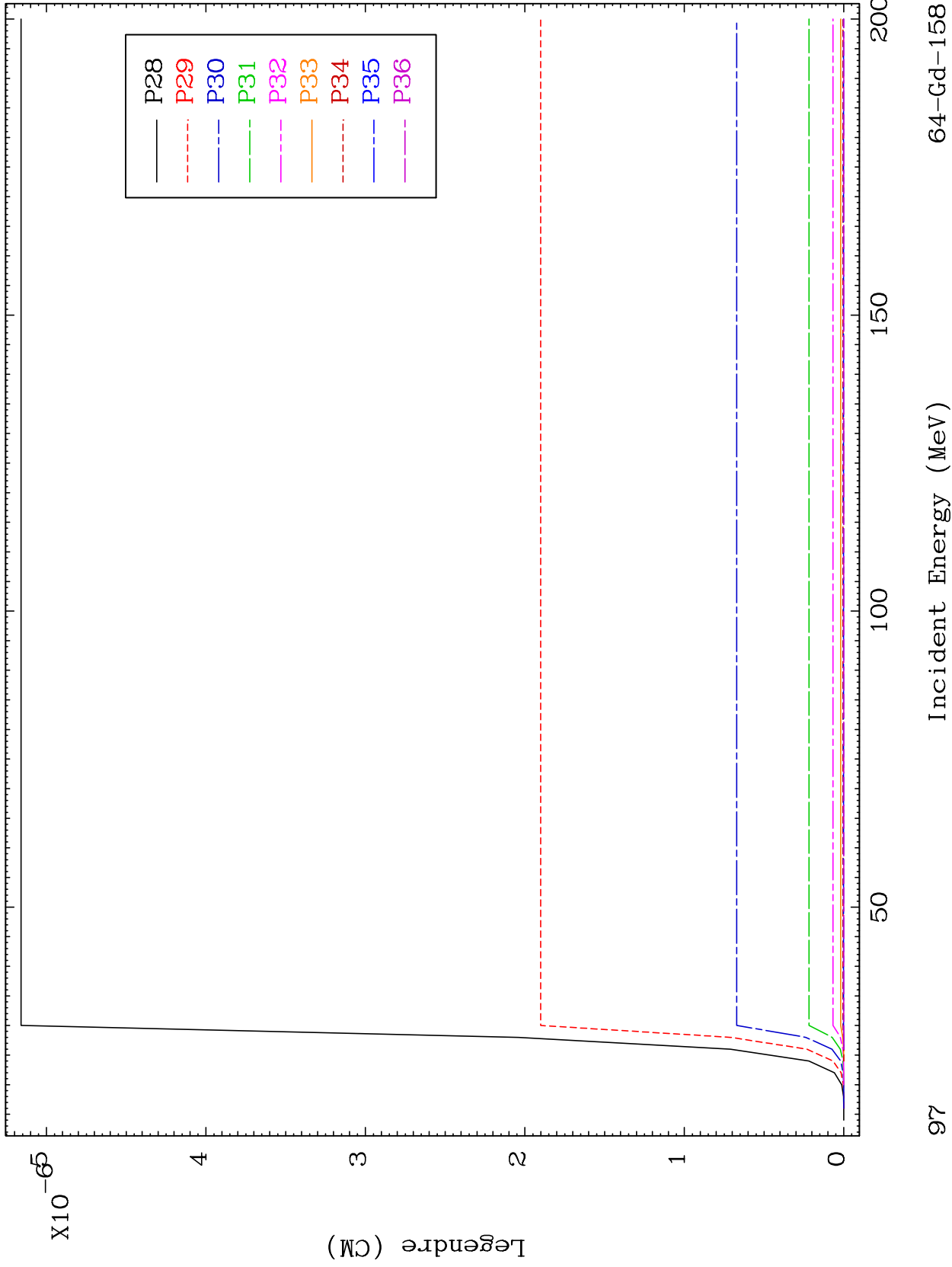
Incident Energy (MeV)

64-Gd-158

MAT 6443

1.407 MeV (n,n') Level  
Legendre Coefficients

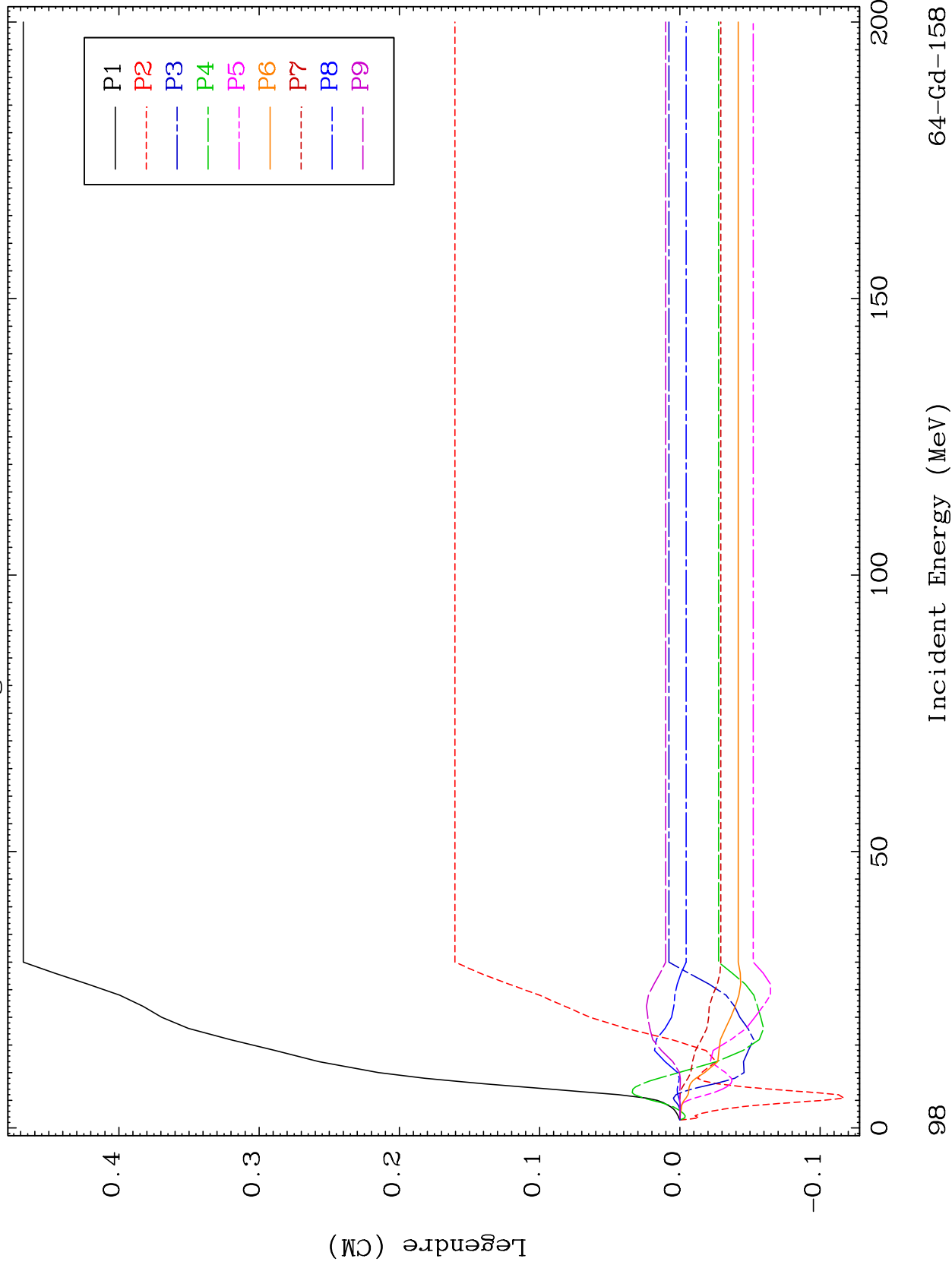
64-Gd-158



MAT 6443

1.414 MeV (n, n') Level  
Legendre Coefficients

64-Gd-158



64-Gd-158

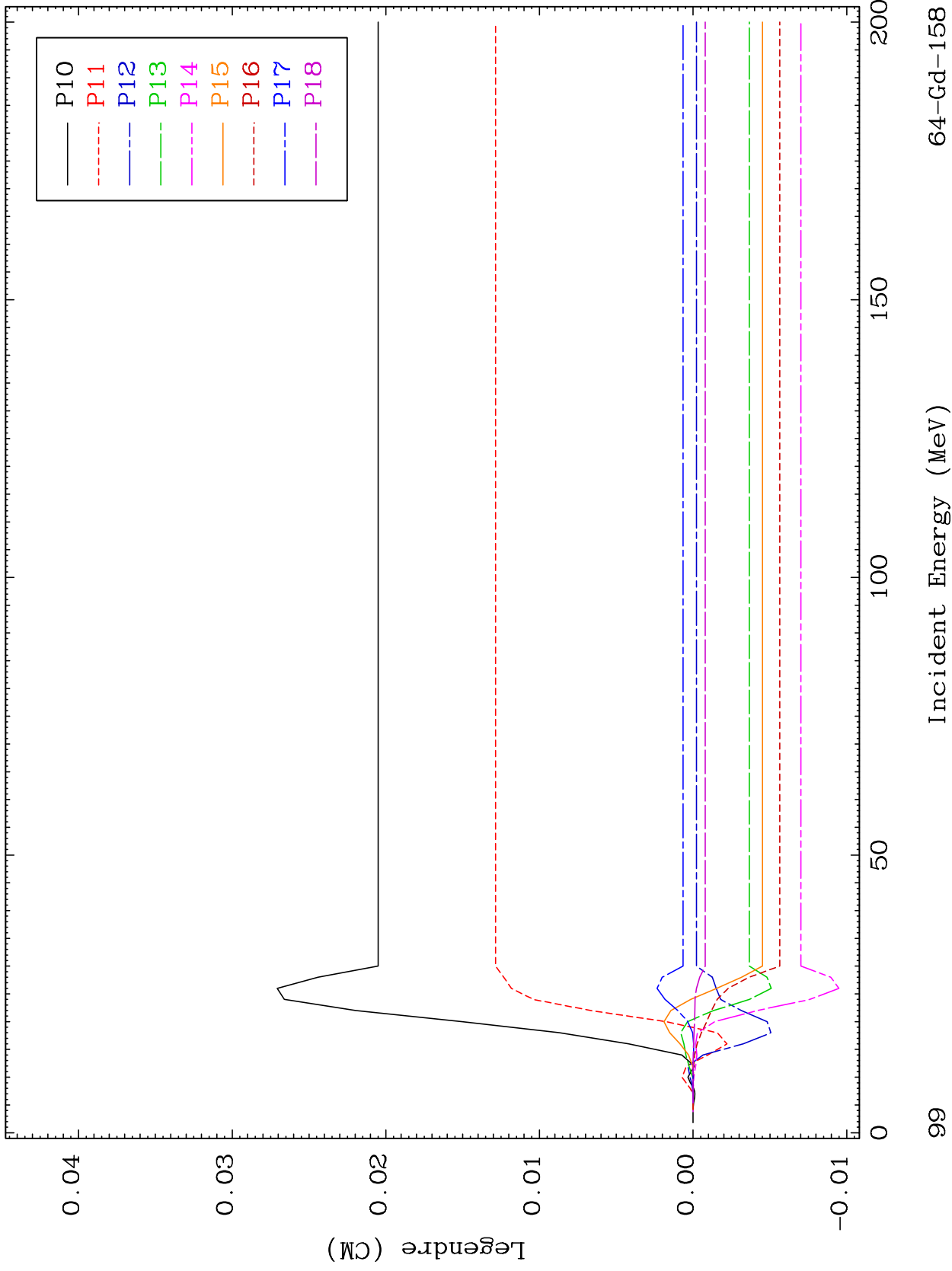
Incident Energy (MeV)

98

MAT 6443

1.414 MeV (n,n') Level  
Legendre Coefficients

64-Gd-158



99

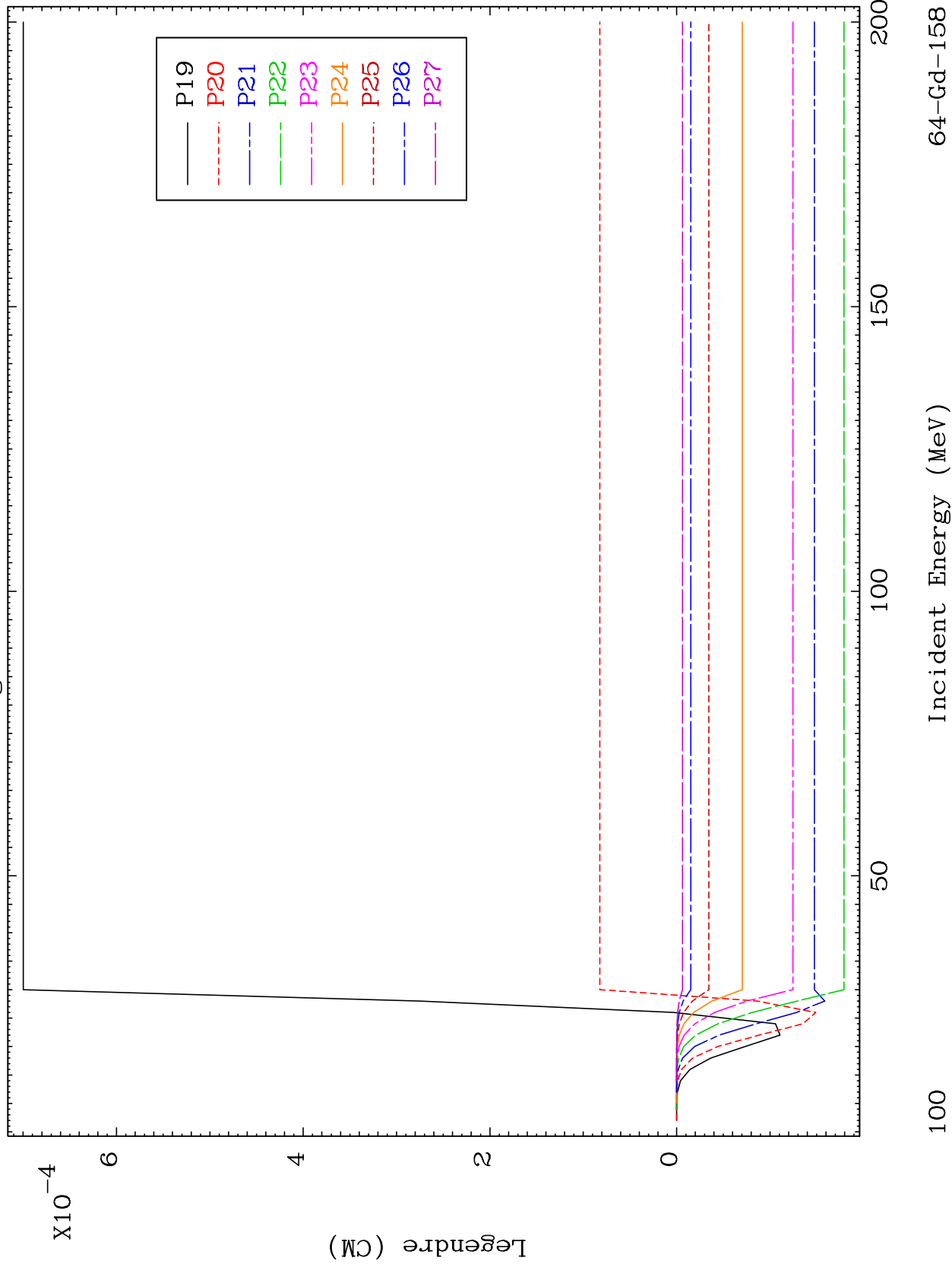
Incident Energy (MeV)

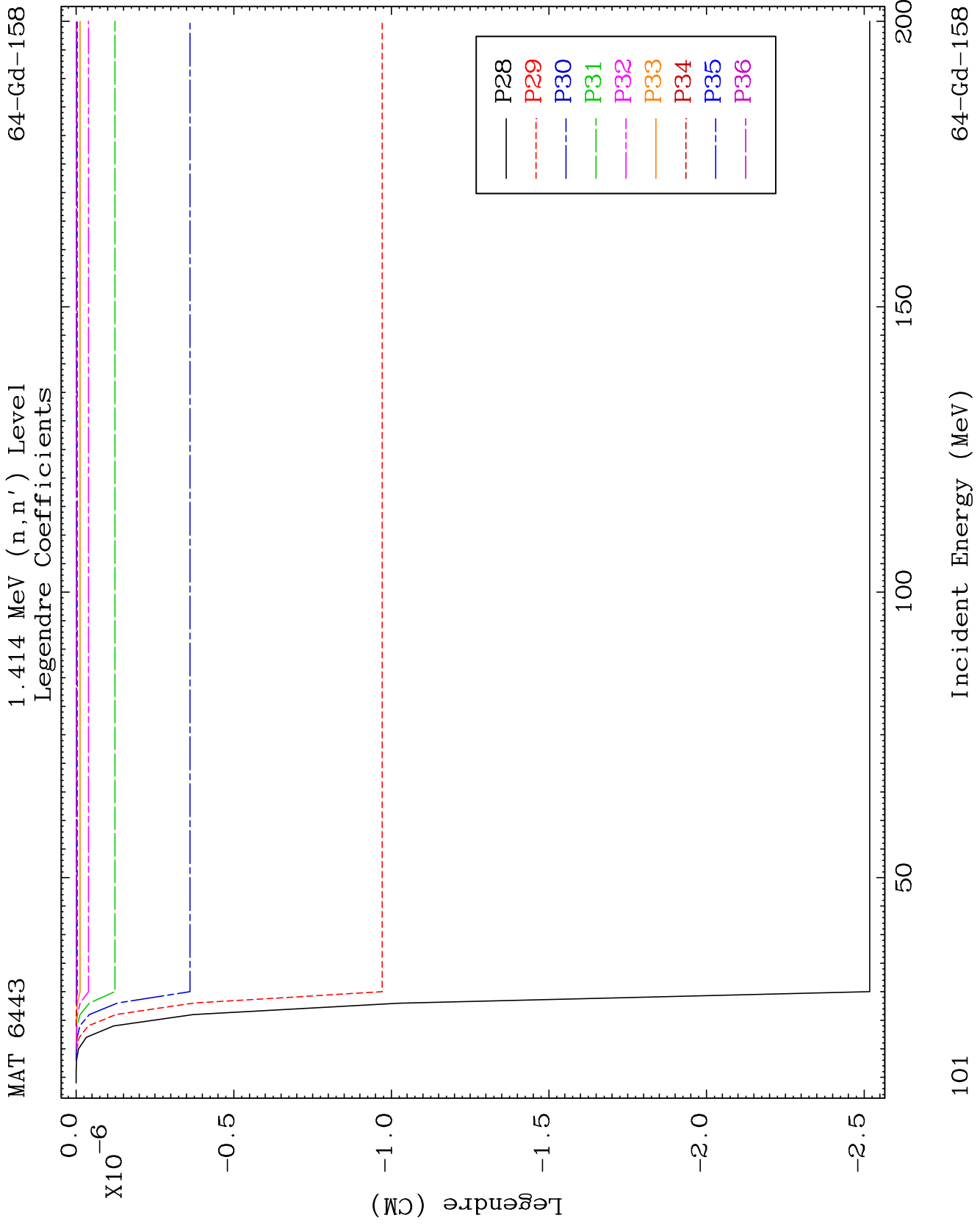
64-Gd-158

MAT 6443

1.414 MeV (n,n') Level  
Legendre Coefficients

64-Gd-158

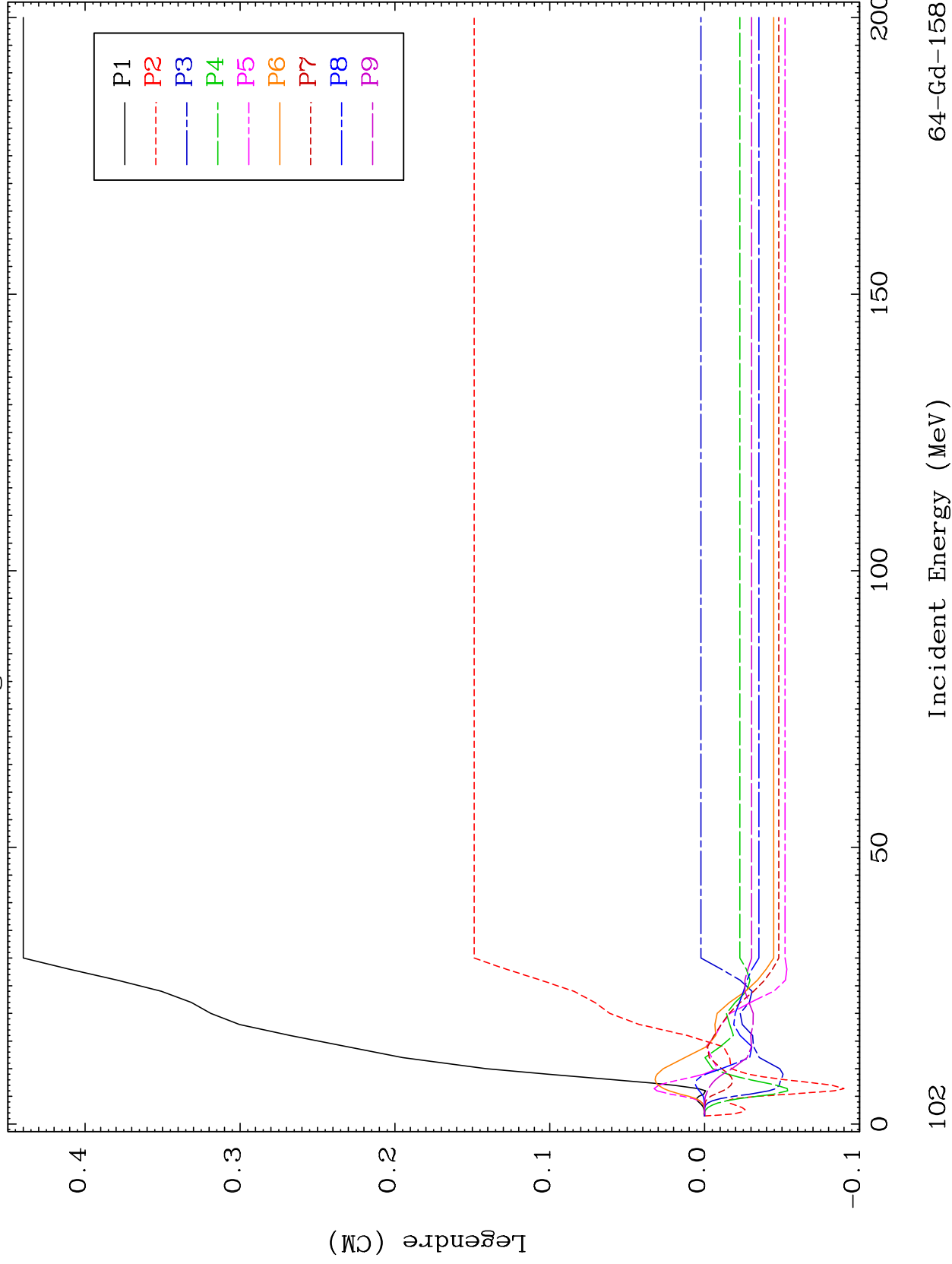




MAT 6443

1.440 MeV (n,n') Level  
Legendre Coefficients

64-Gd-158



64-Gd-158

Incident Energy (MeV)

102

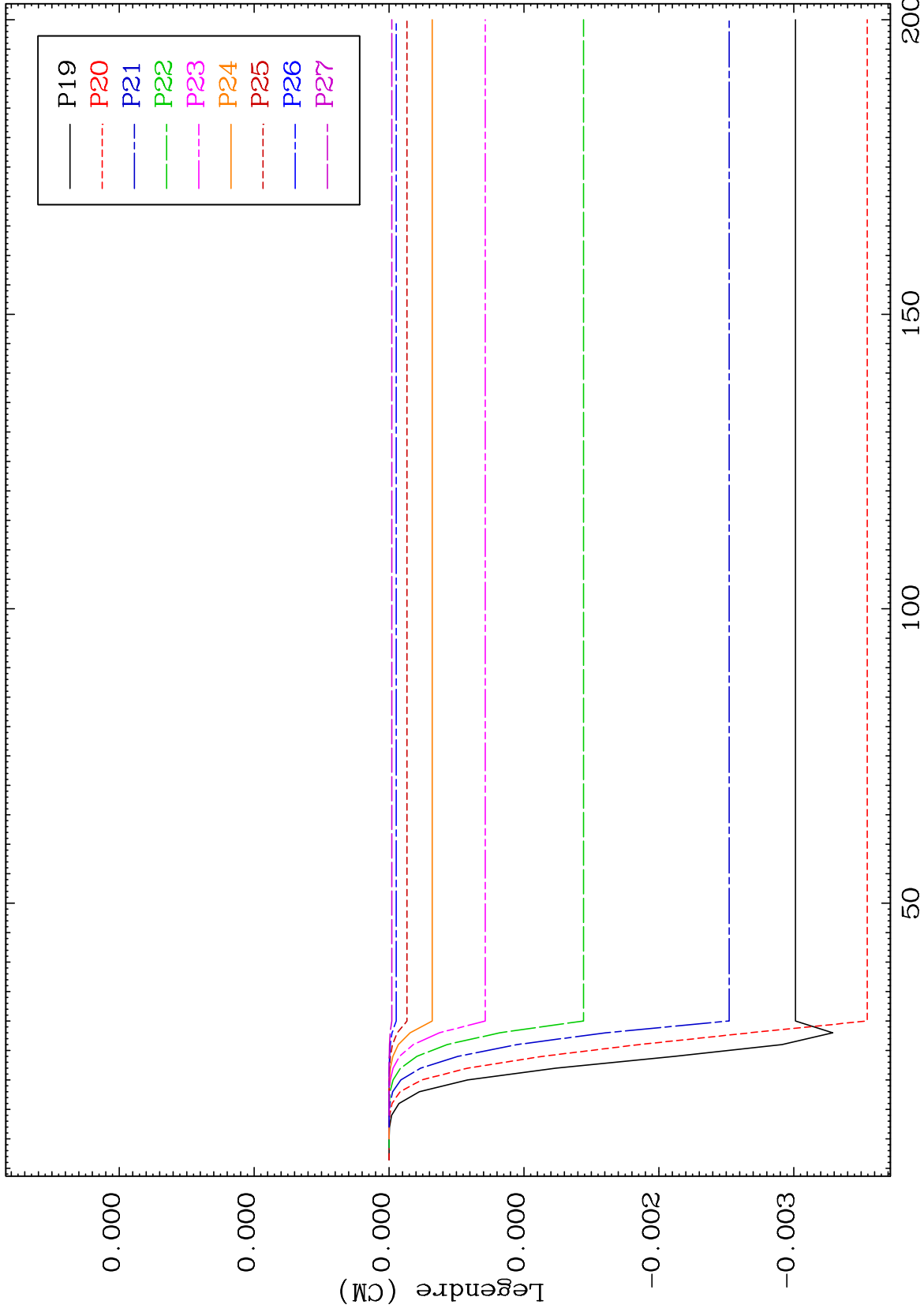




MAT 6443

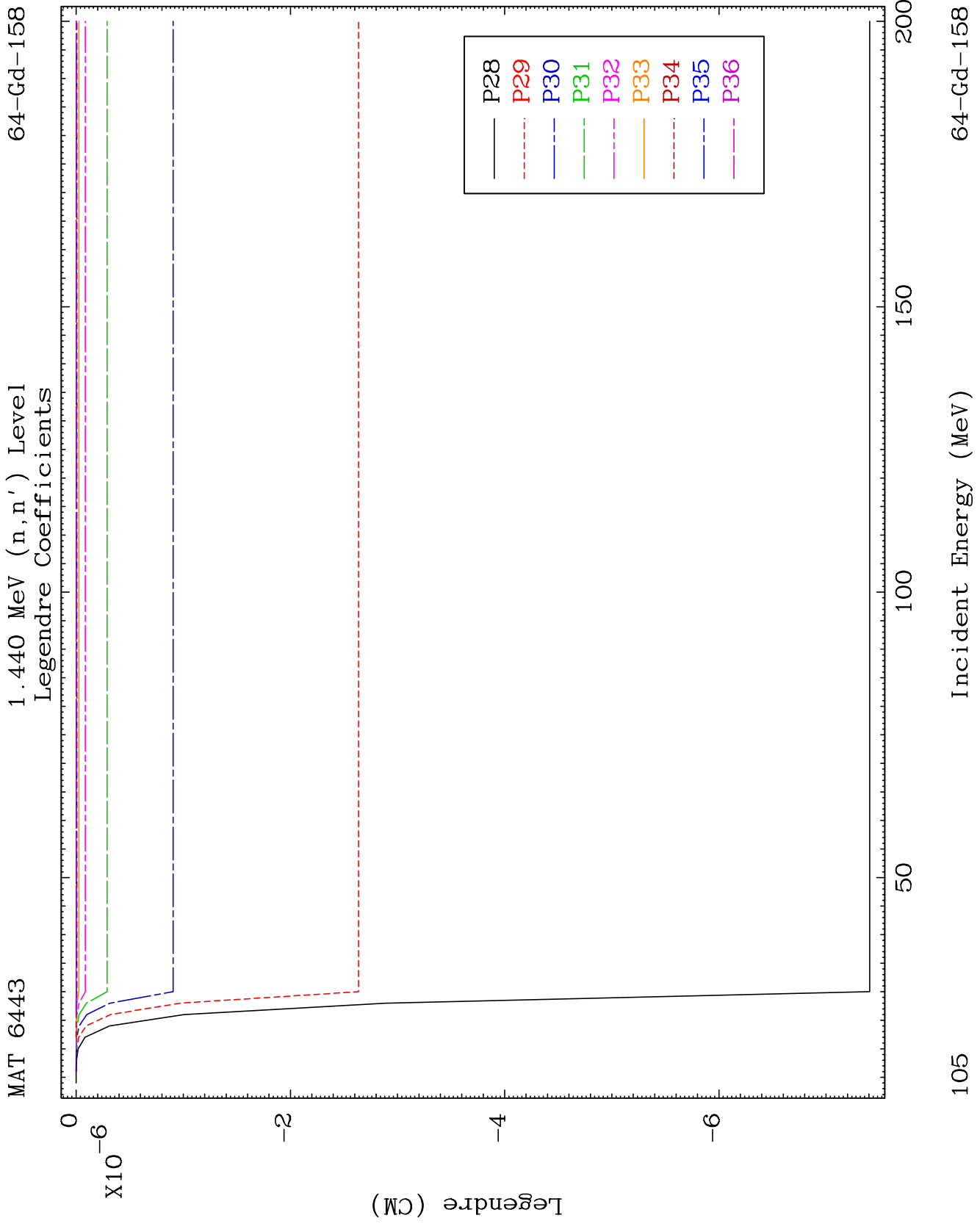
1.440 MeV (n,n') Level  
Legendre Coefficients

64-Gd-158



104

64-Gd-158

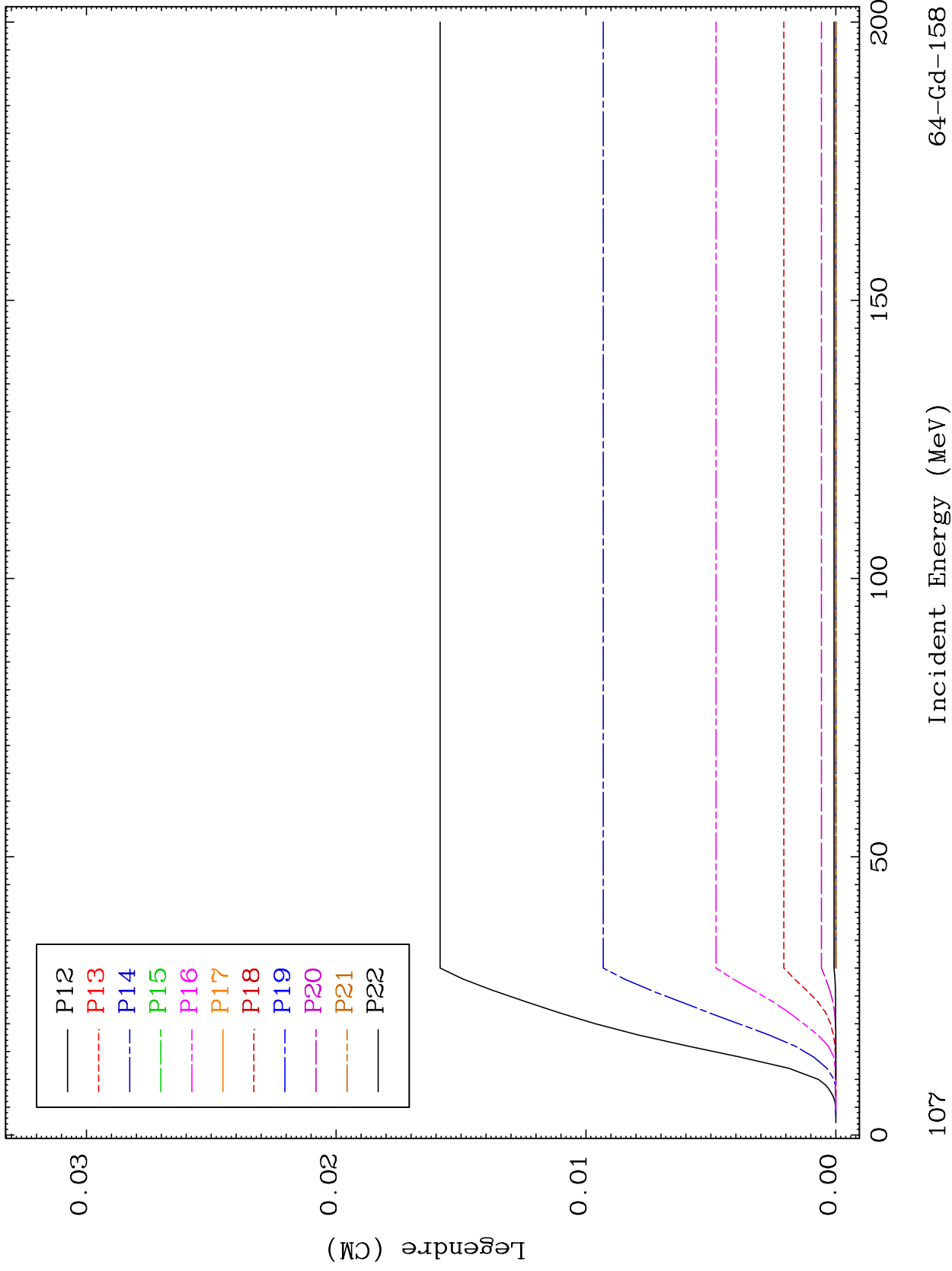




MAT 6443

1.452 MeV (n,n') Level  
Legendre Coefficients

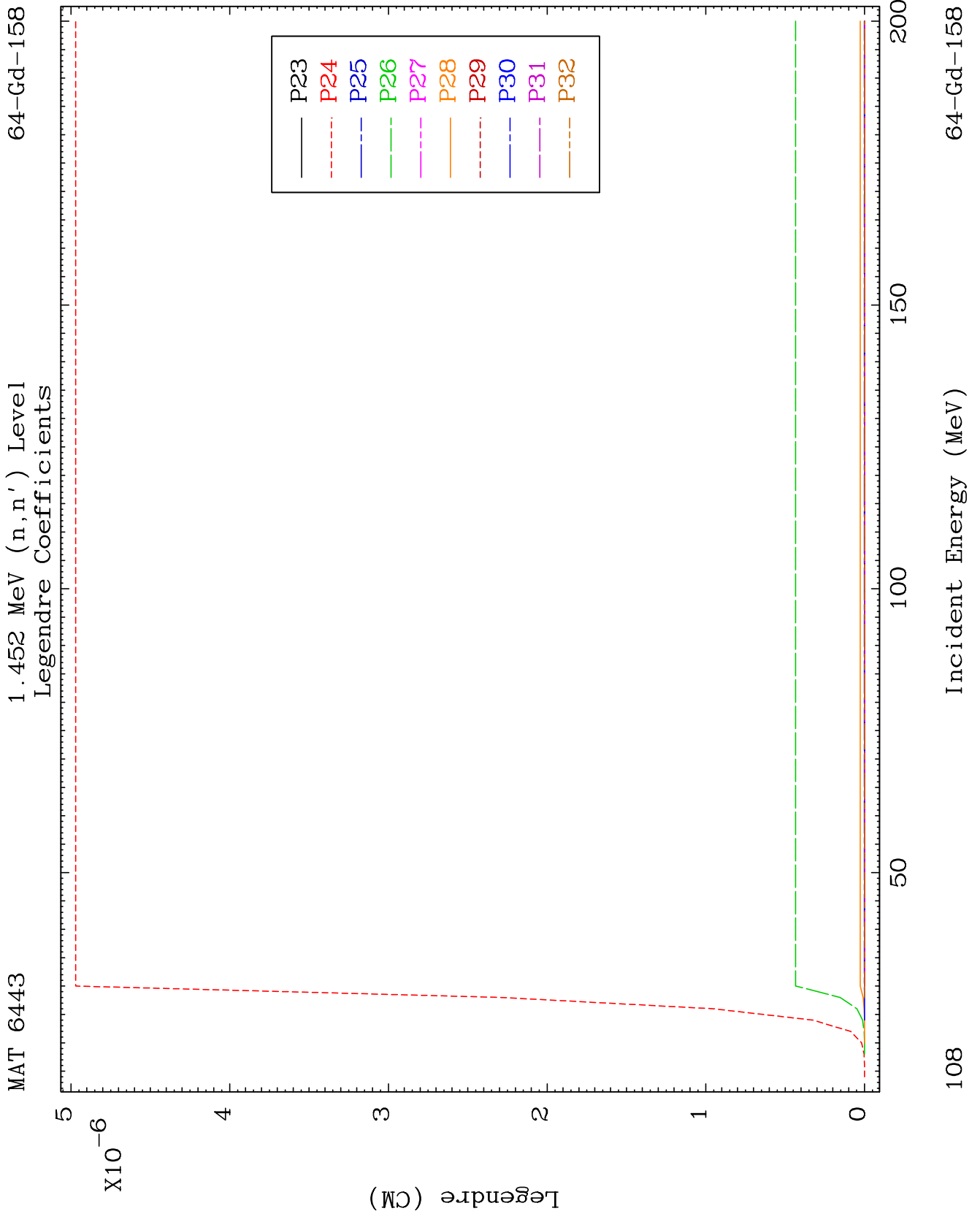
64-Gd-158



107

Incident Energy (MeV)

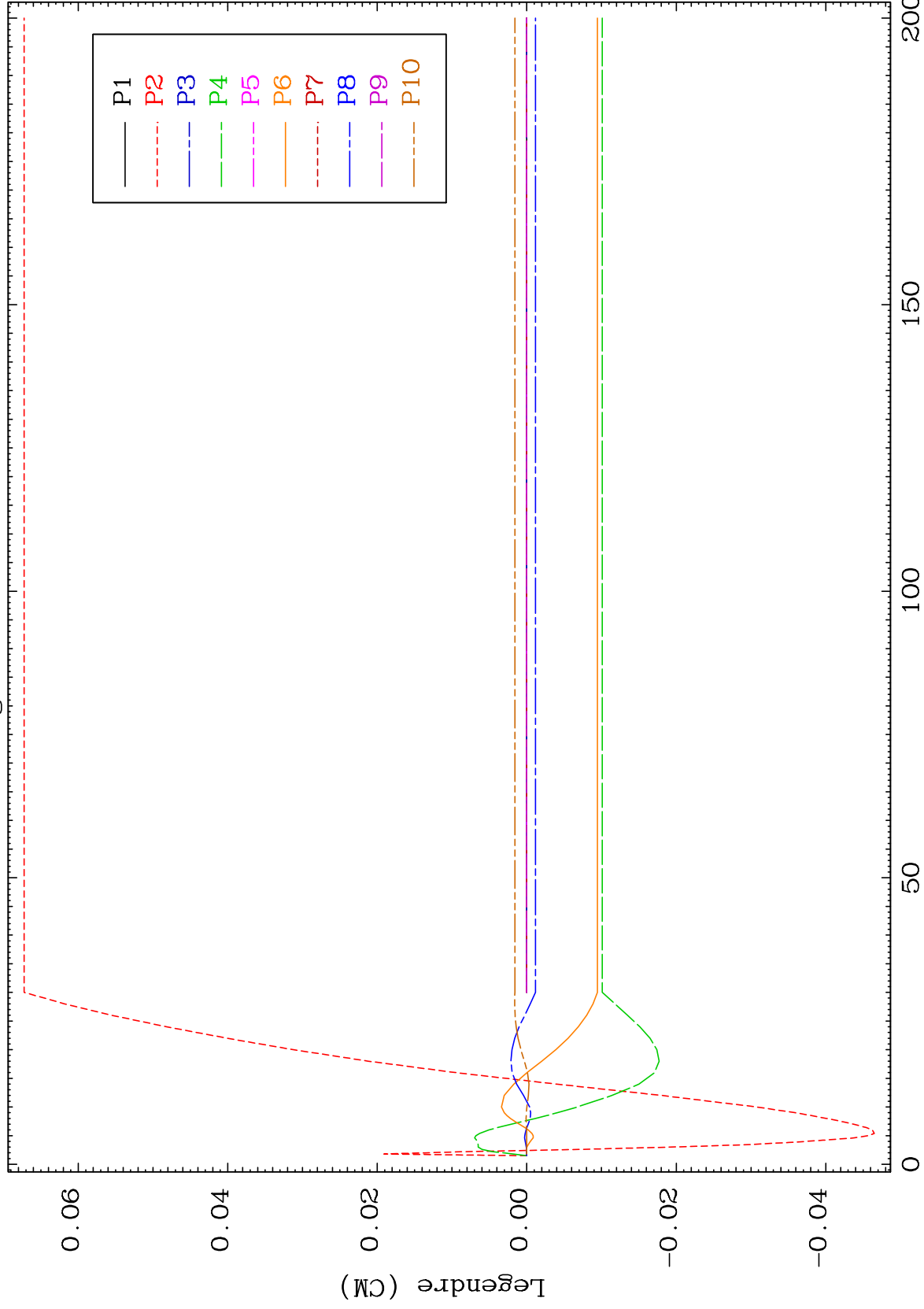
64-Gd-158



MAT 6443

1.481 MeV (n,n') Level  
Legendre Coefficients

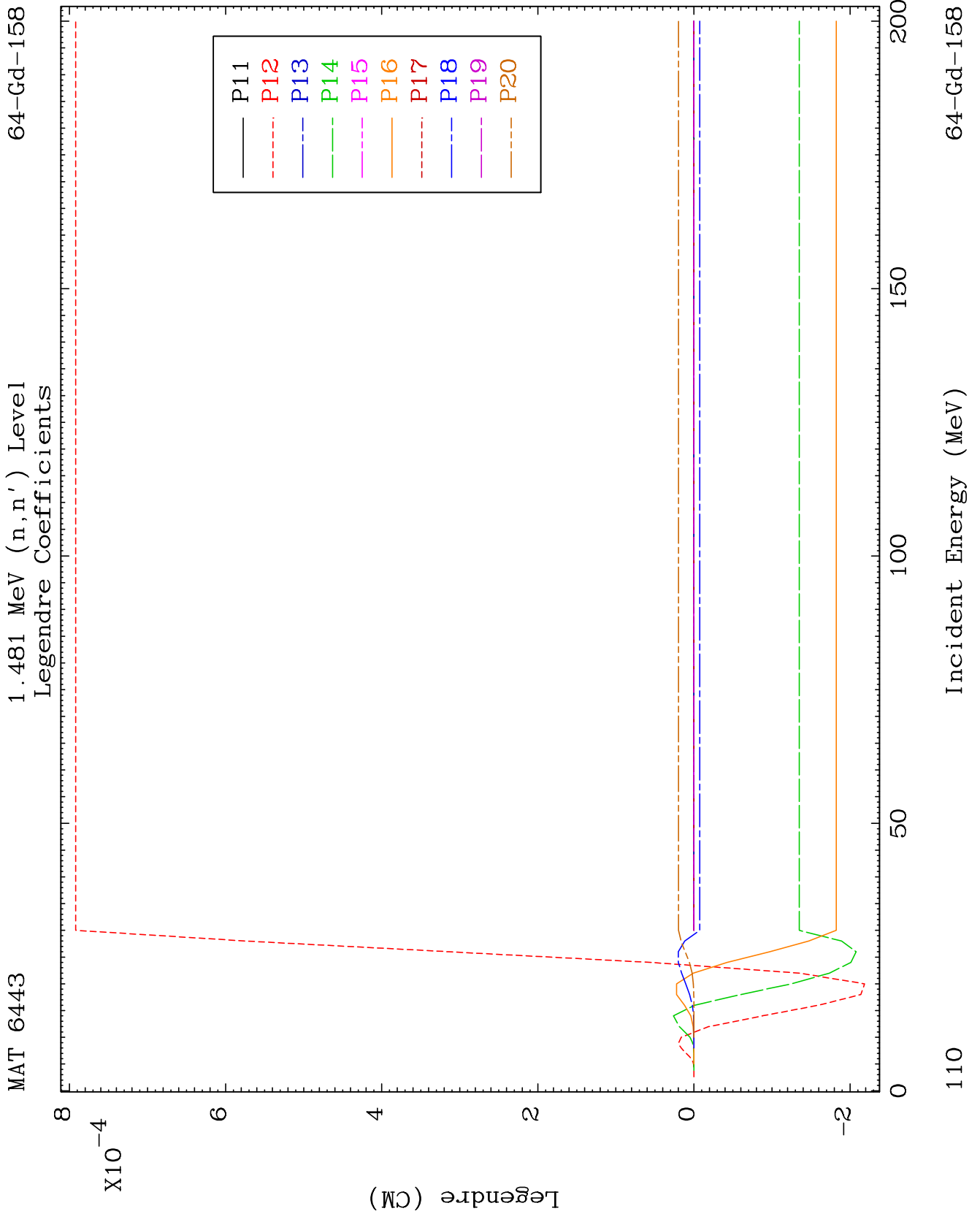
64-Gd-158

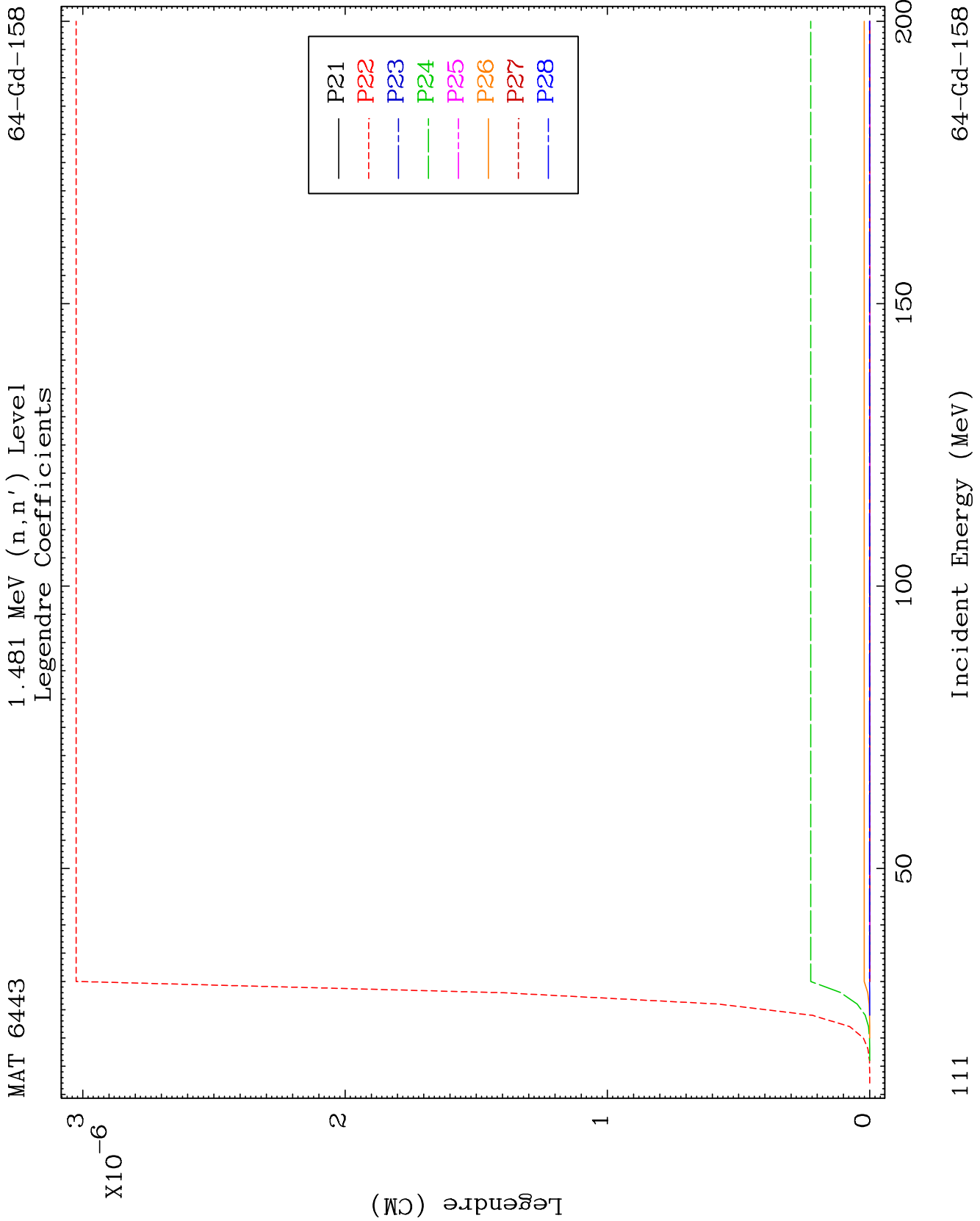


Incident Energy (MeV)

64-Gd-158

109



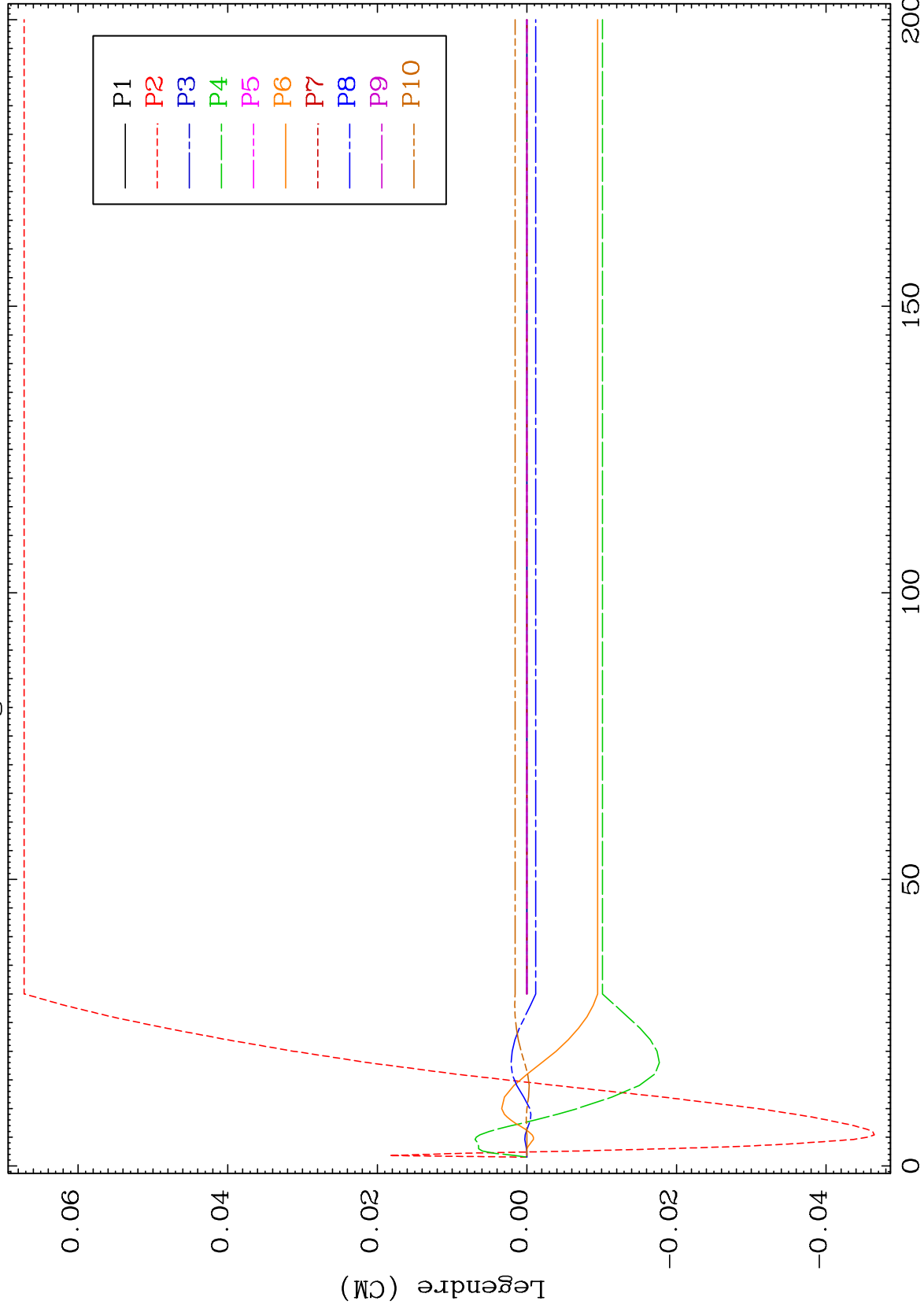




MAT 6443

1.499 MeV (n,n') Level  
Legendre Coefficients

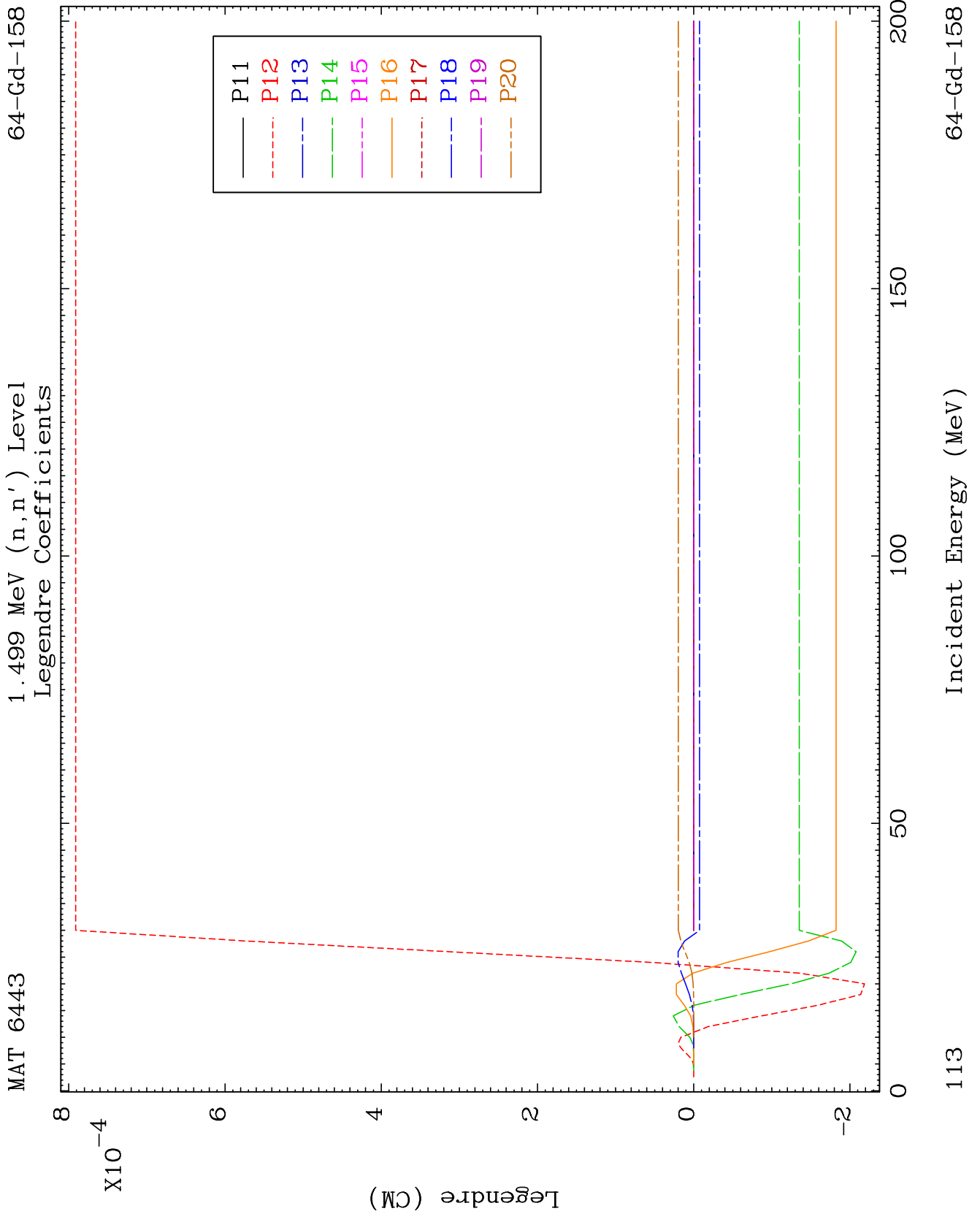
64-Gd-158

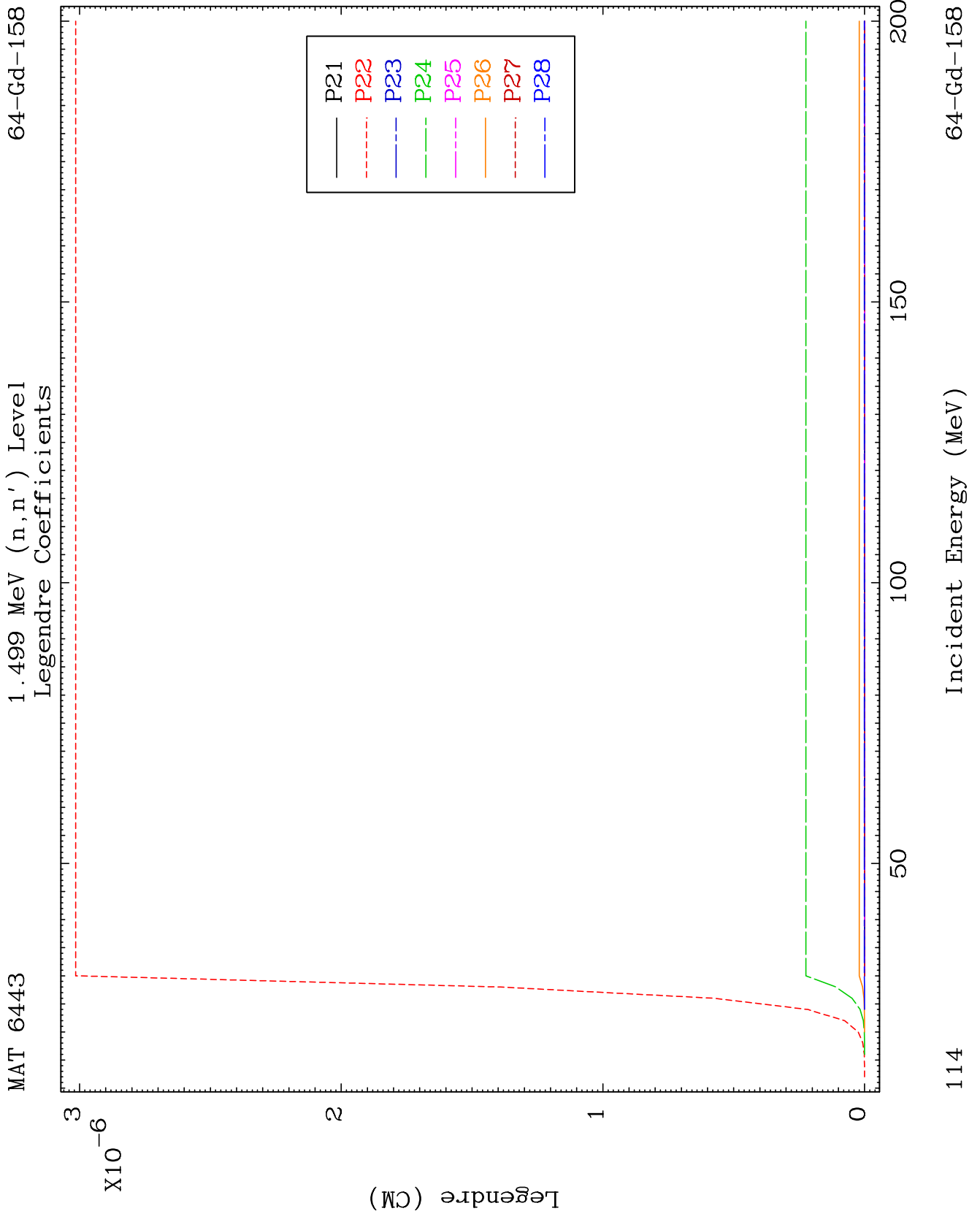


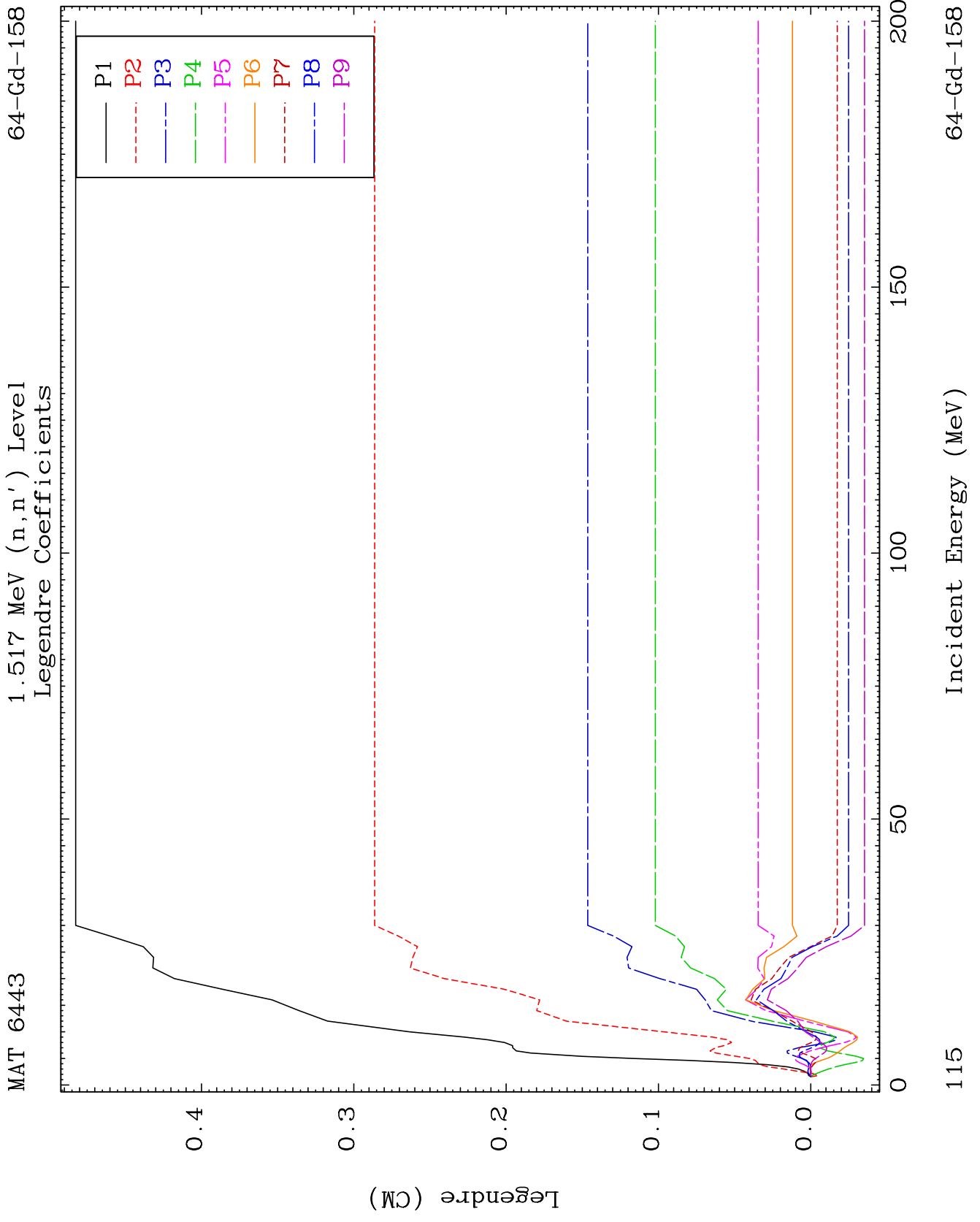
64-Gd-158

Incident Energy (MeV)

112



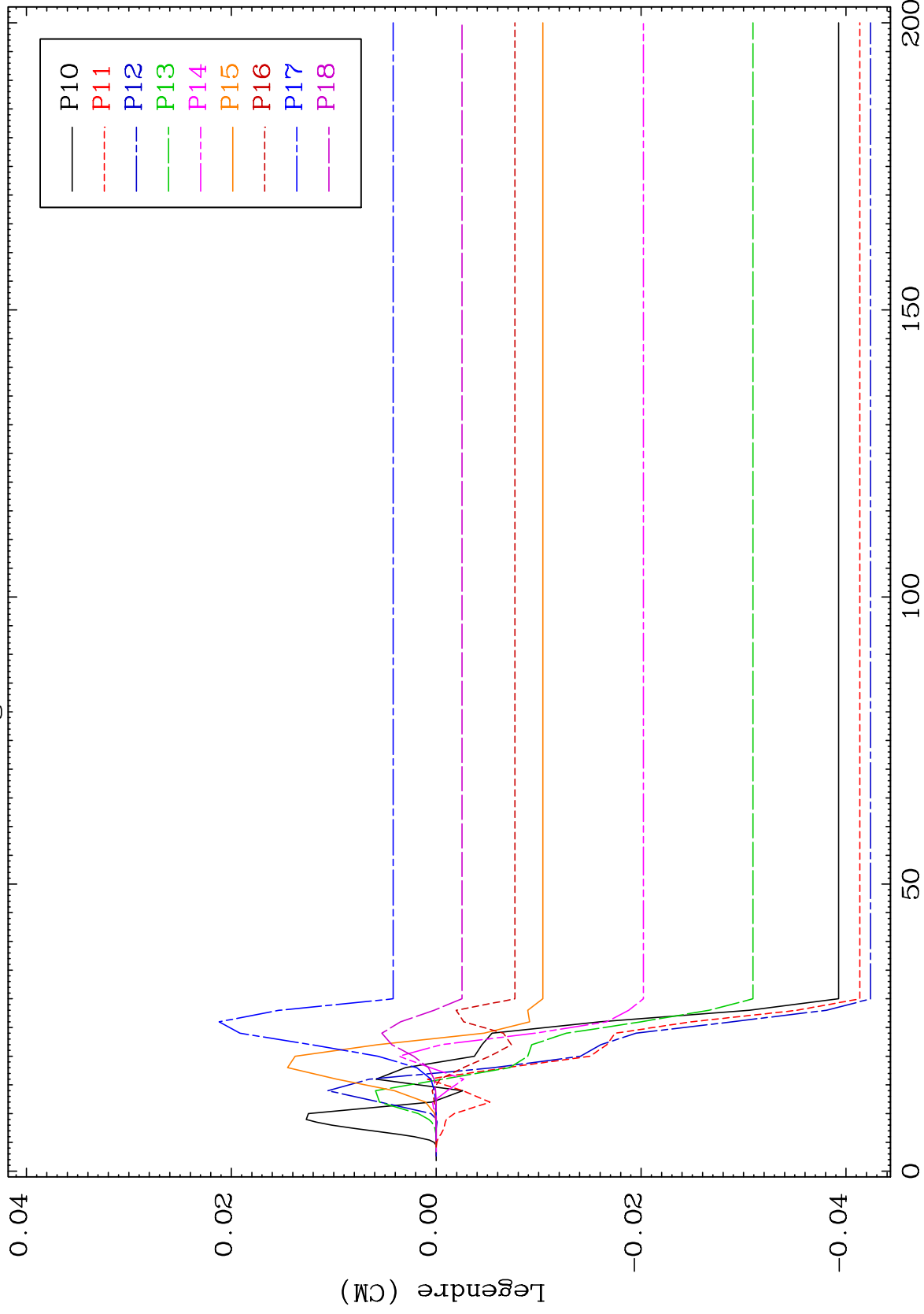




MAT 6443

1.517 MeV (n,n') Level  
Legendre Coefficients

64-Gd-158



116

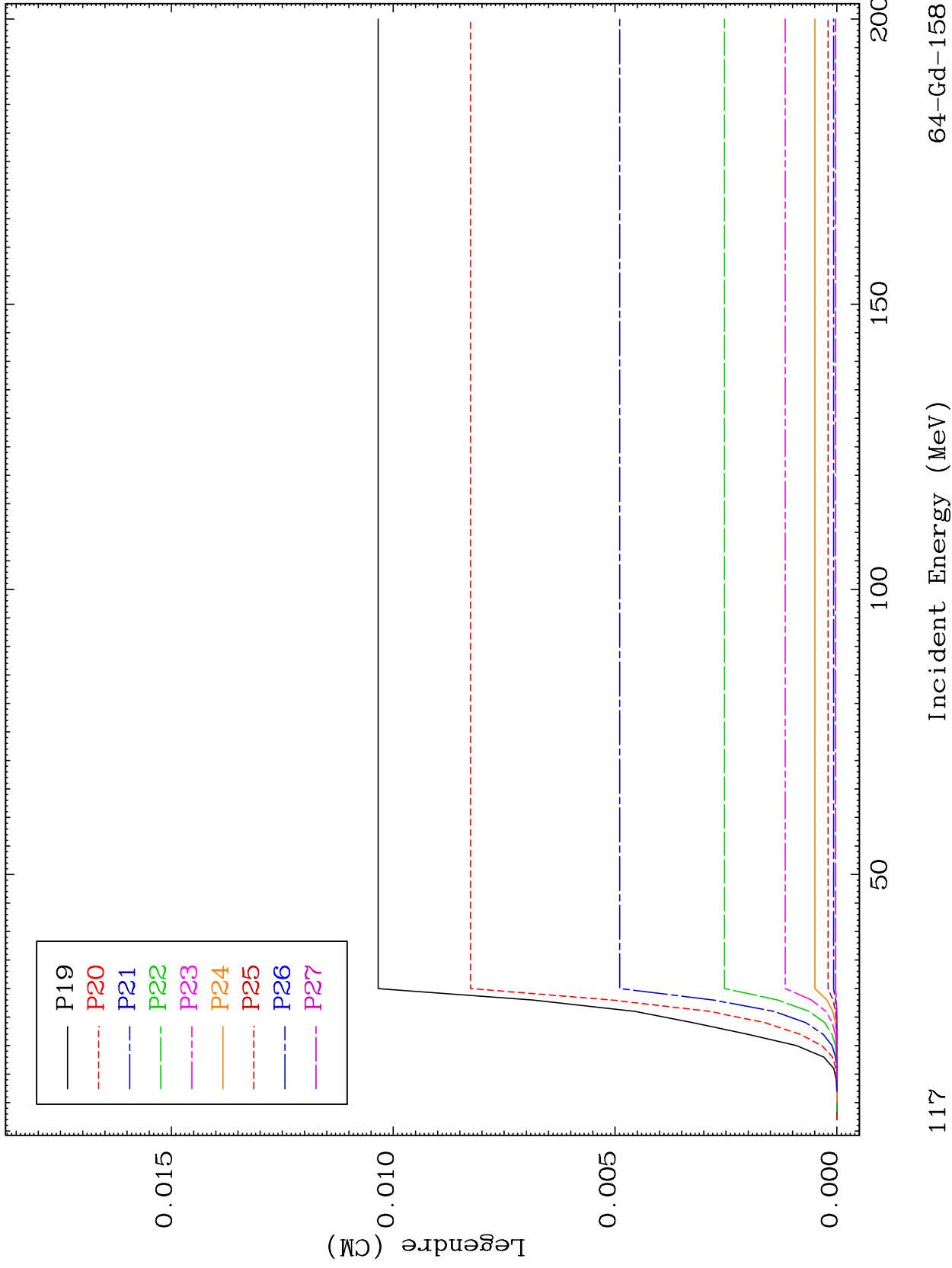
Incident Energy (MeV)

64-Gd-158

MAT 6443

1.517 MeV (n,n') Level  
Legendre Coefficients

64-Gd-158



117

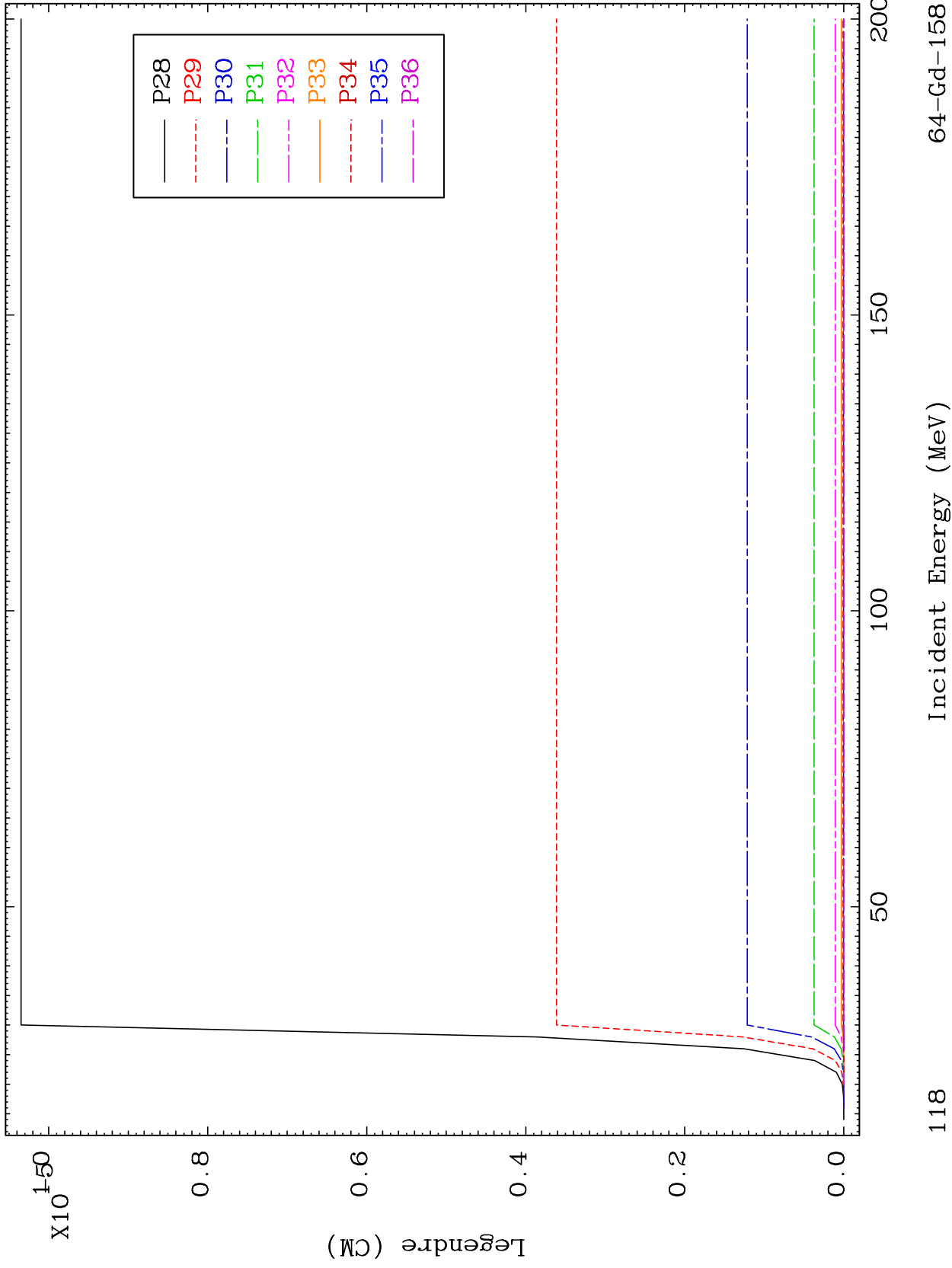
Incident Energy (MeV)

64-Gd-158

MAT 6443

1.517 MeV (n, n') Level  
Legendre Coefficients

64-Gd-158

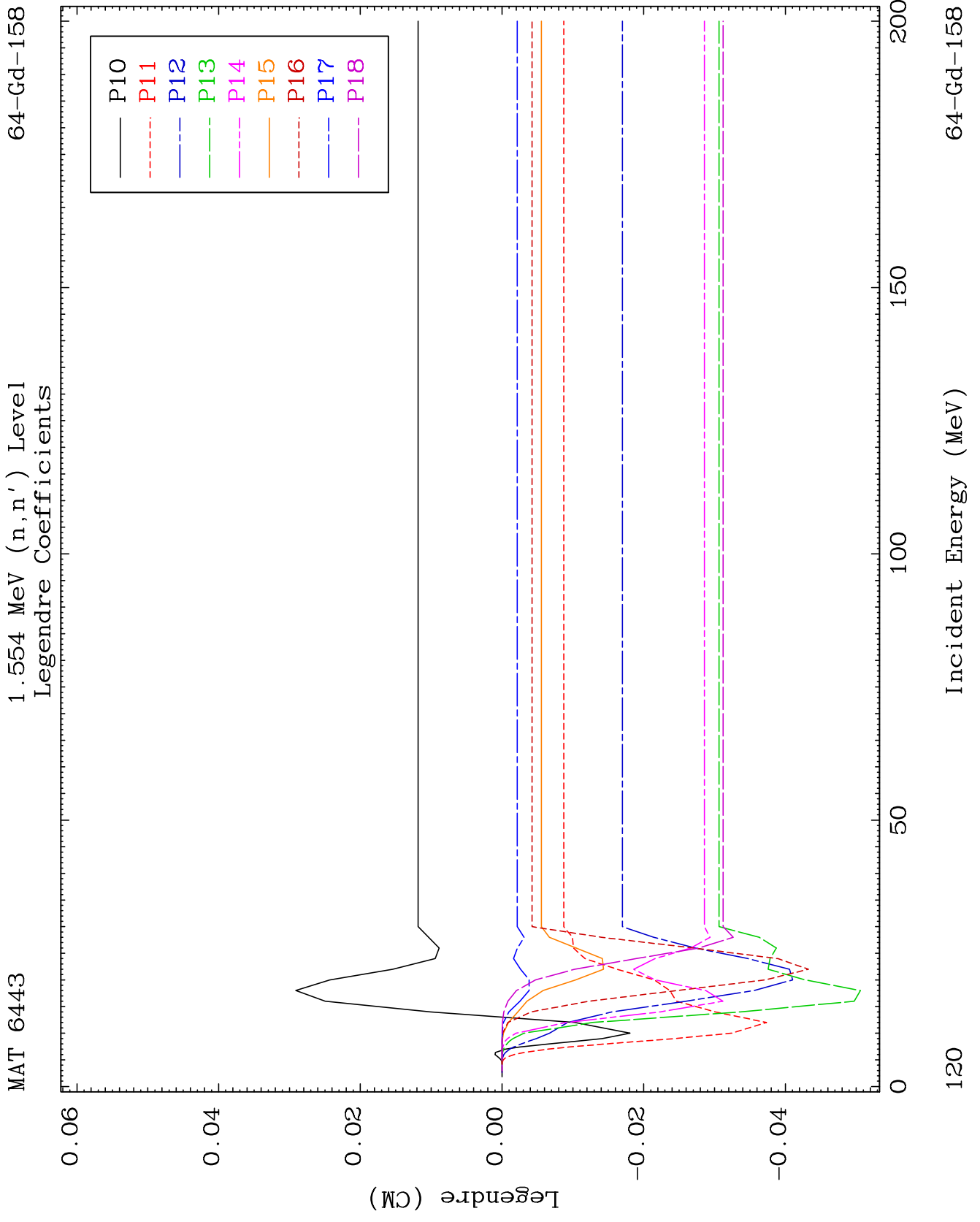


118

64-Gd-158



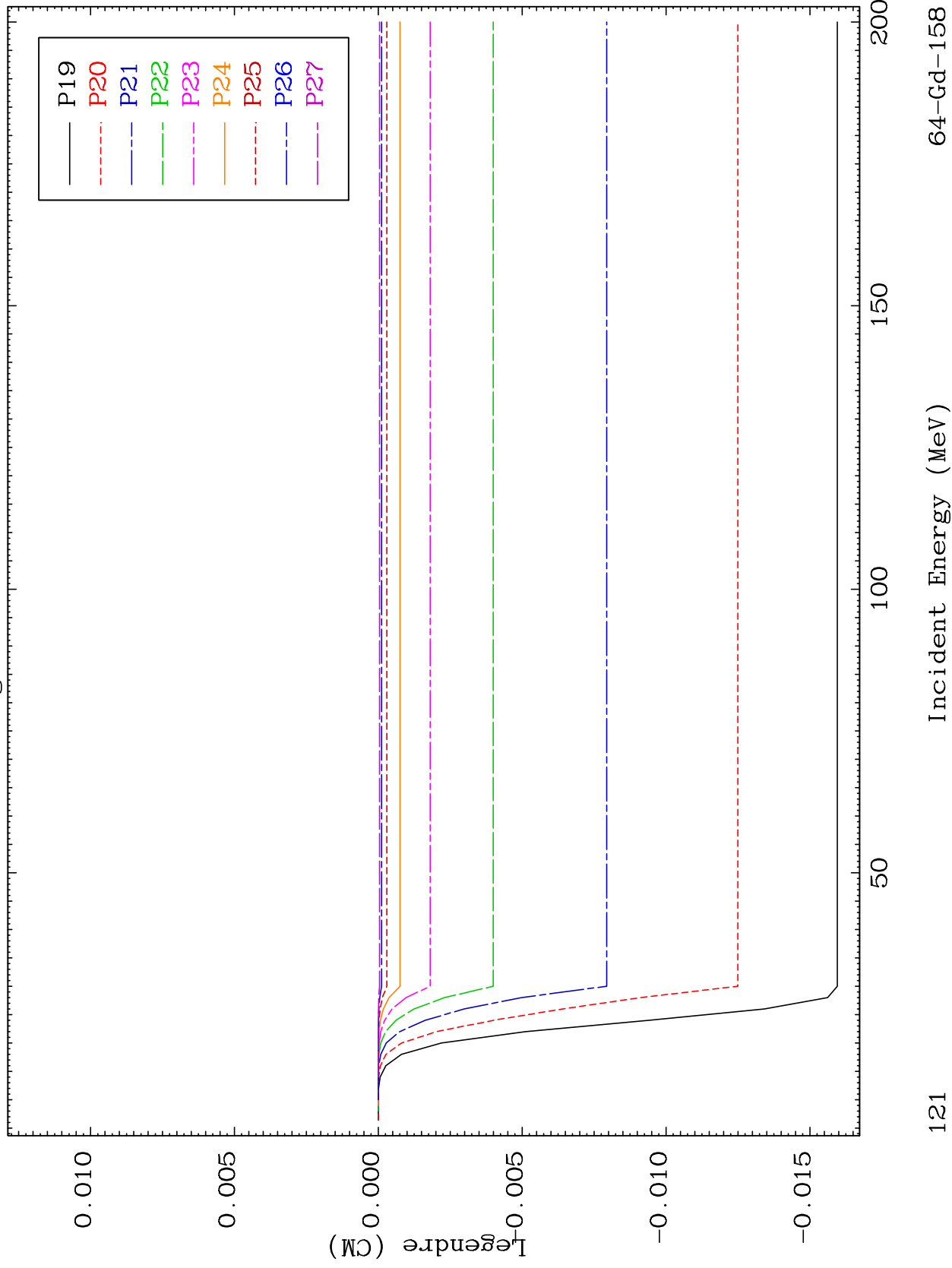




MAT 6443

1.554 MeV (n,n') Level  
Legendre Coefficients

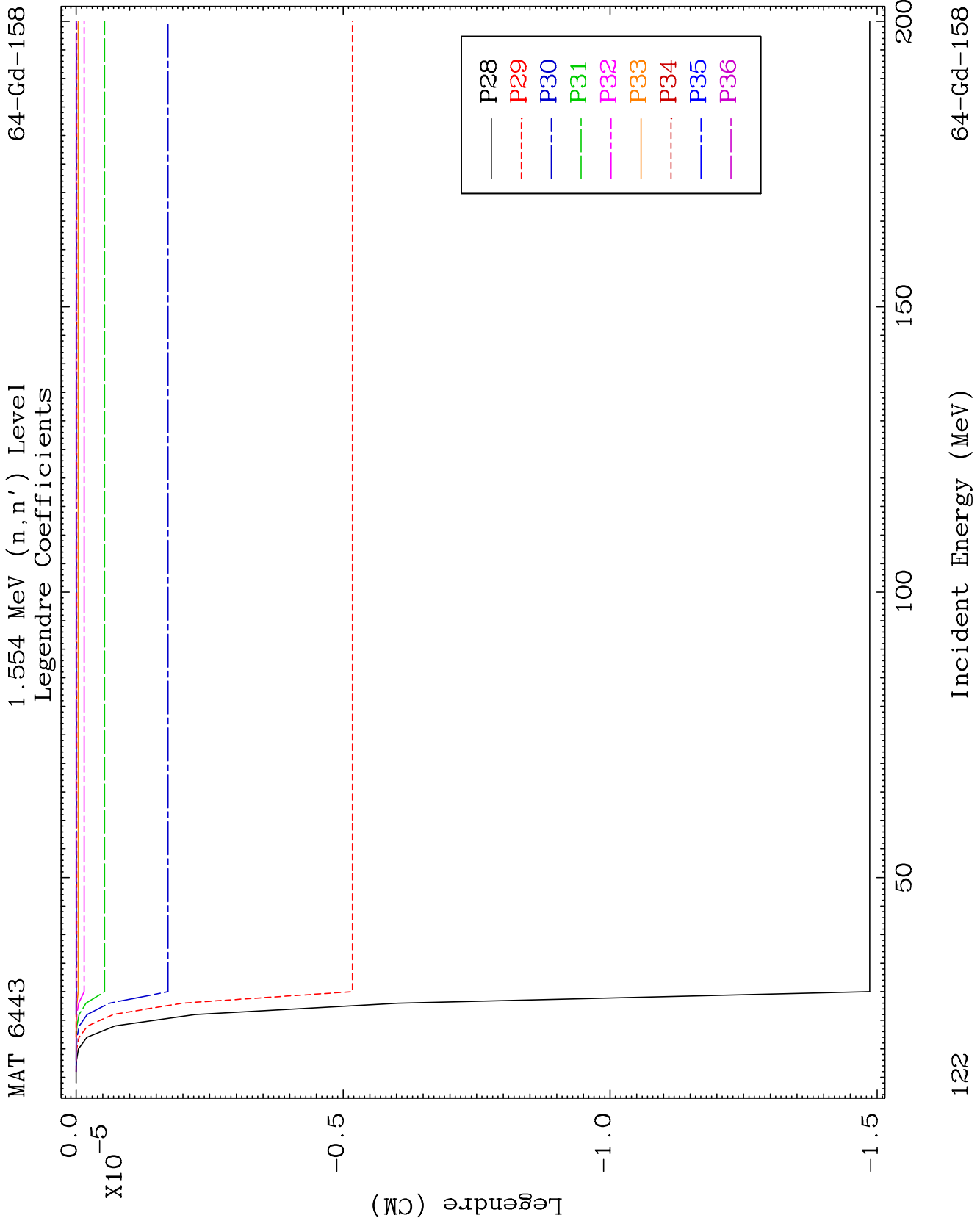
64-Gd-158



121

Incident Energy (MeV)

64-Gd-158

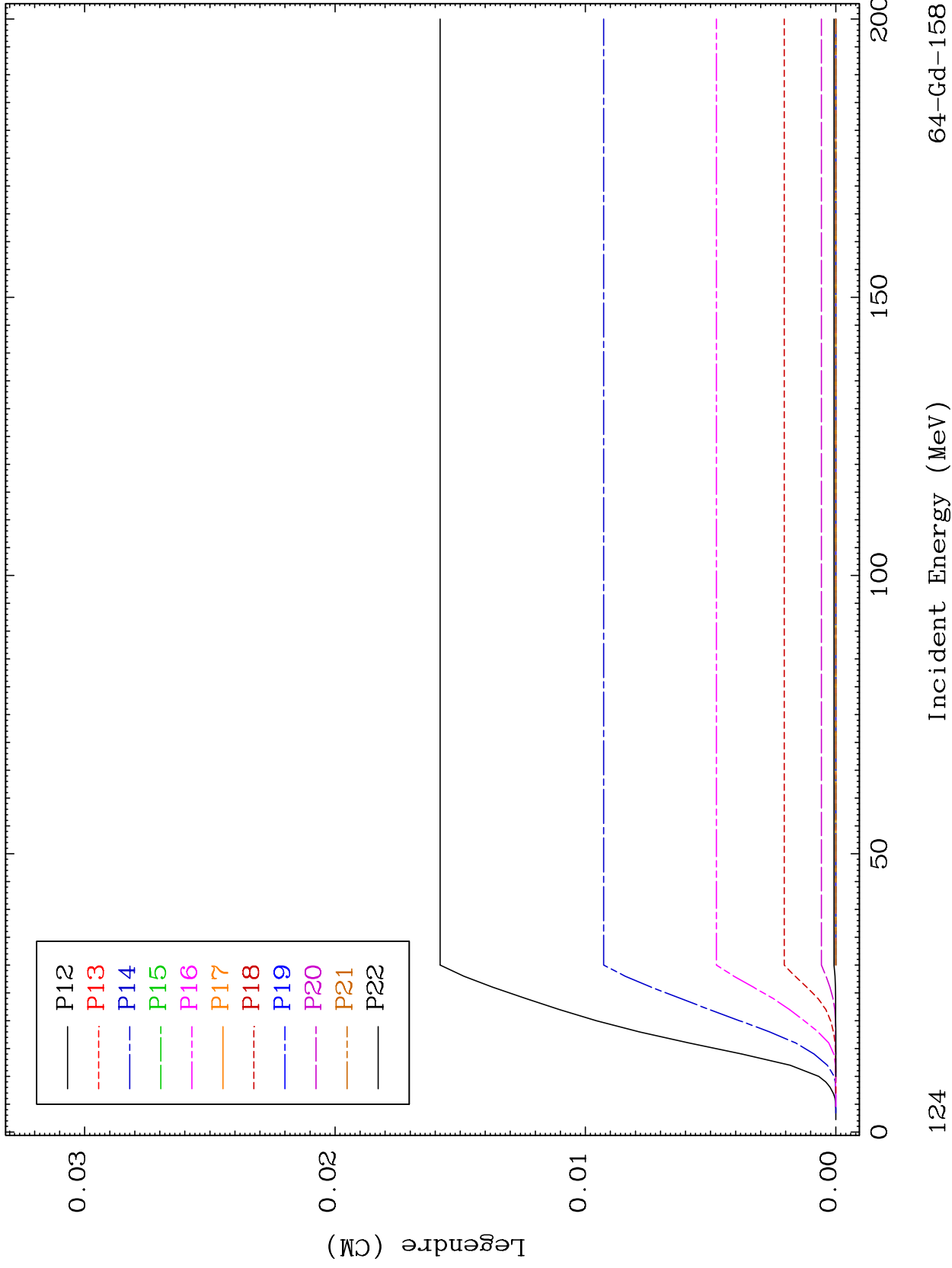




MAT 6443

1.577 MeV (n, n') Level  
Legendre Coefficients

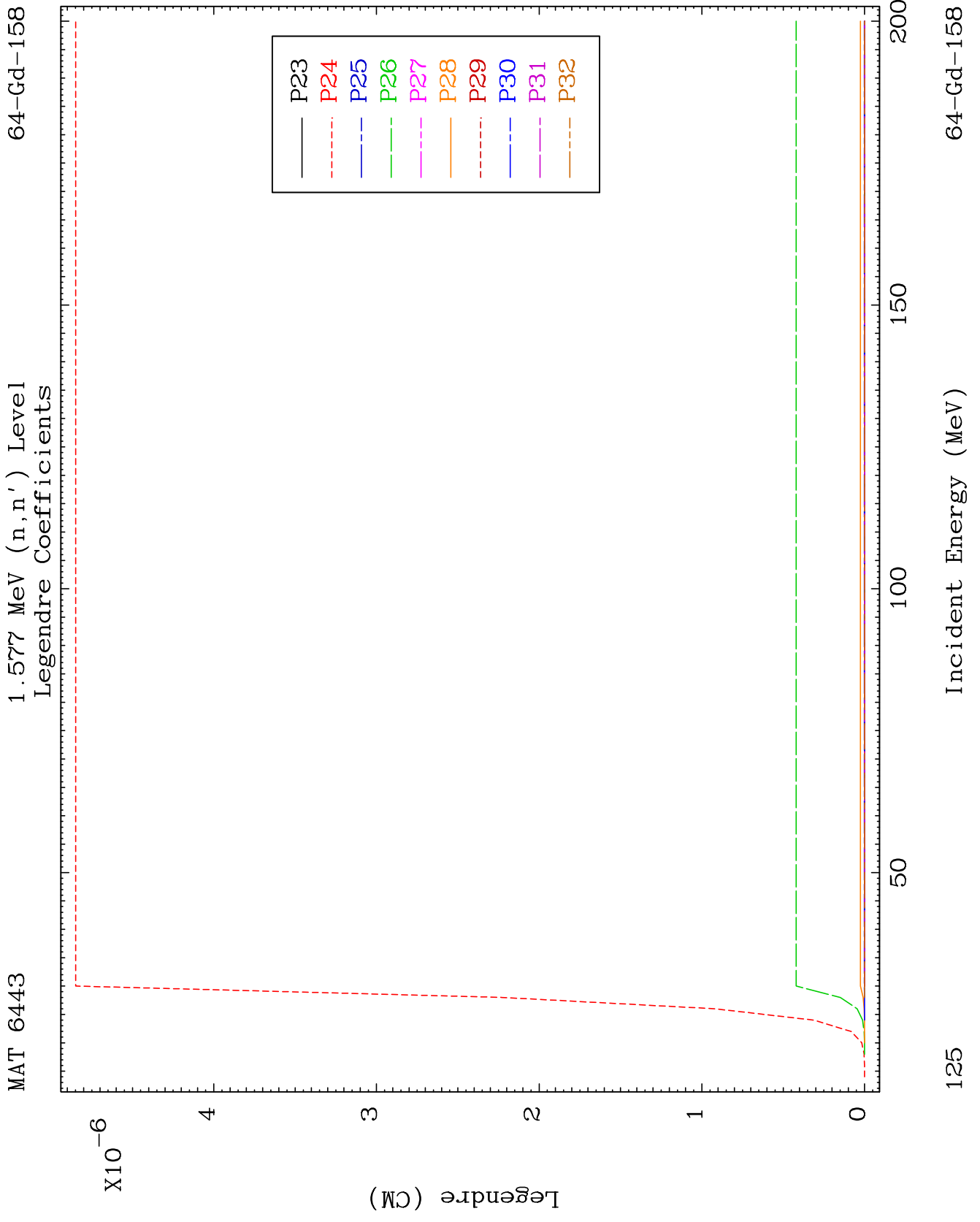
64-Gd-158

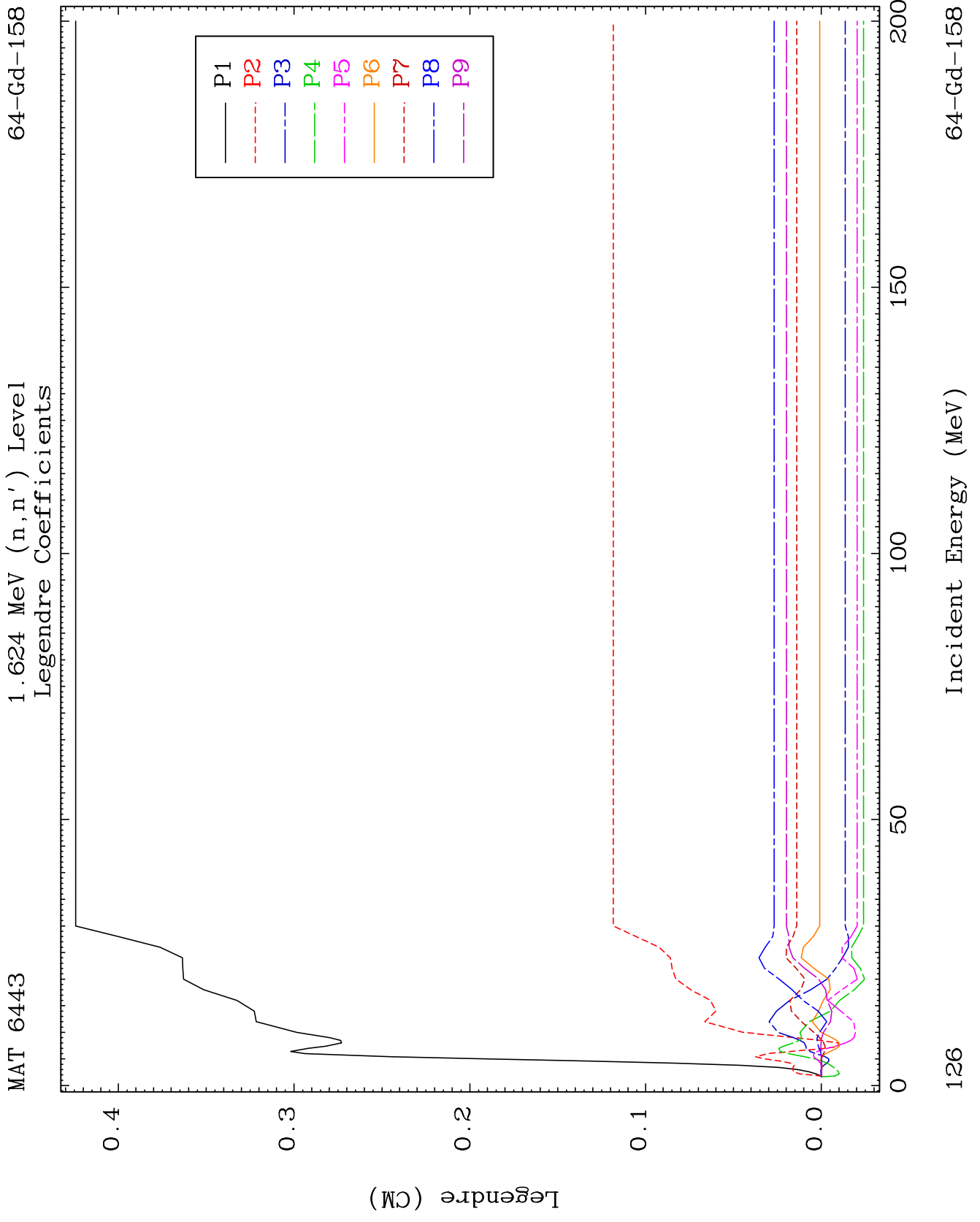


124

Incident Energy (MeV)

64-Gd-158

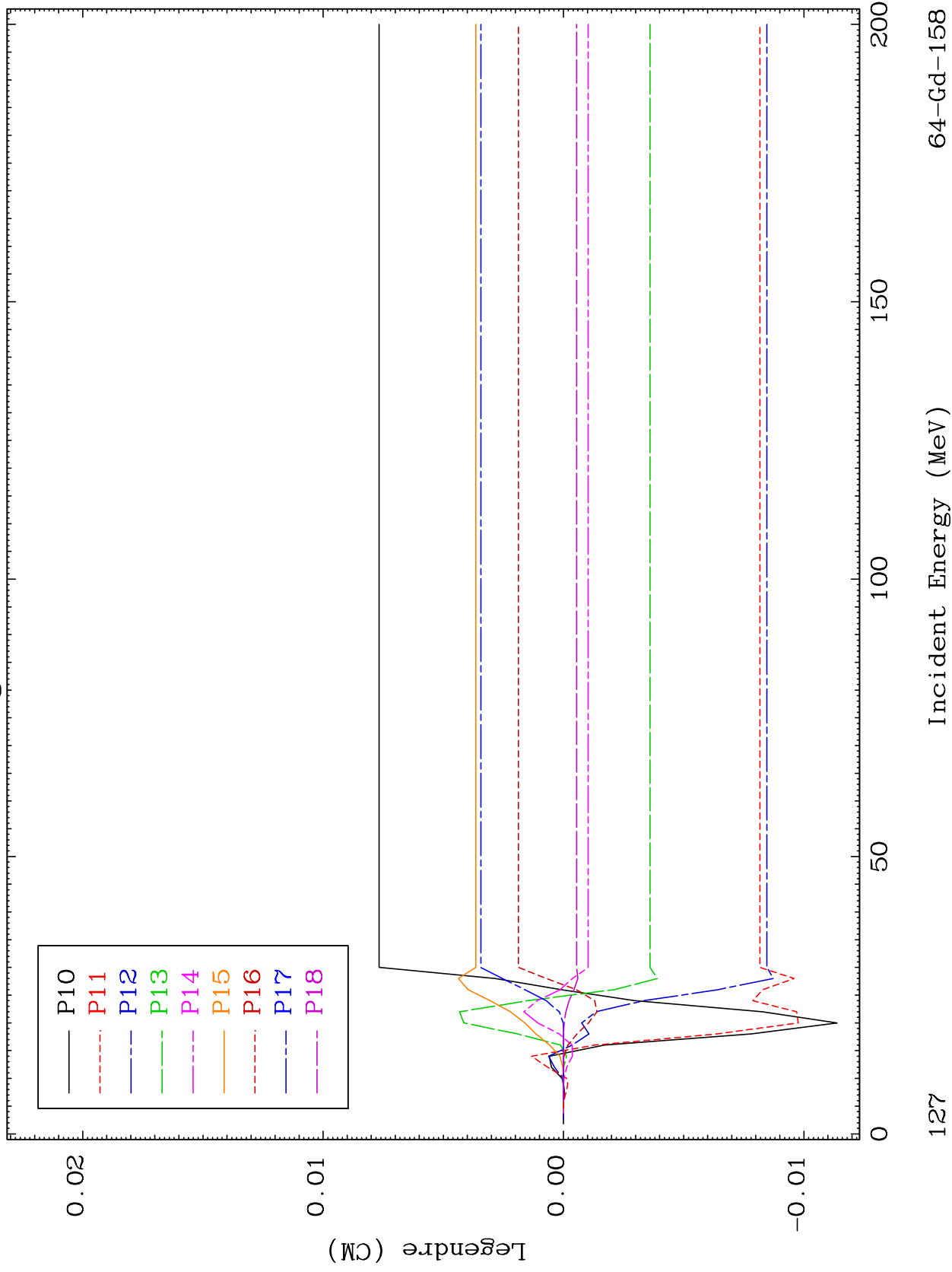




MAT 6443

1.624 MeV (n,n') Level  
Legendre Coefficients

64-Gd-158

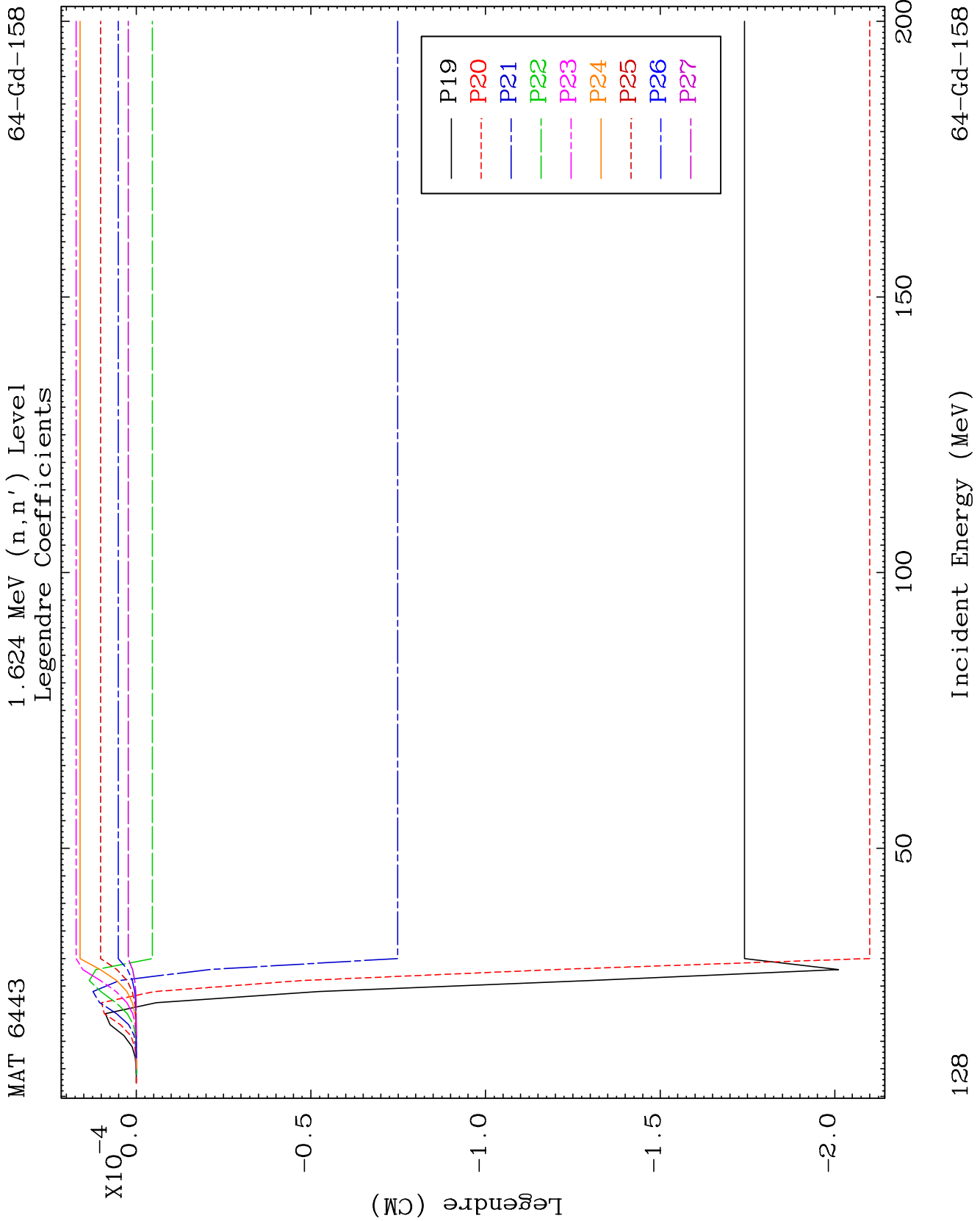


127

Incident Energy (MeV)

64-Gd-158

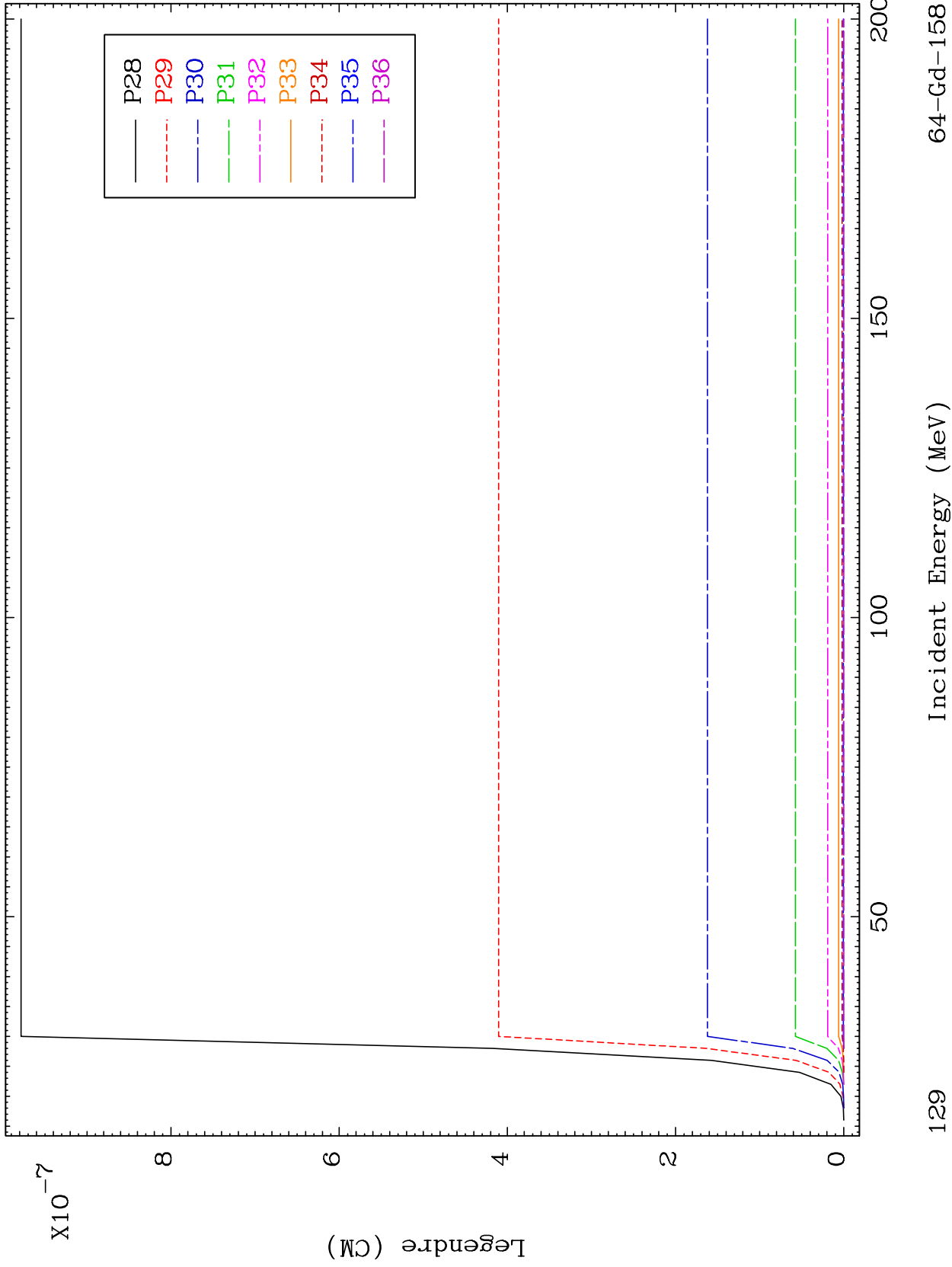




MAT 6443

1.624 MeV (n,n') Level  
Legendre Coefficients

64-Gd-158



129

Incident Energy (MeV)

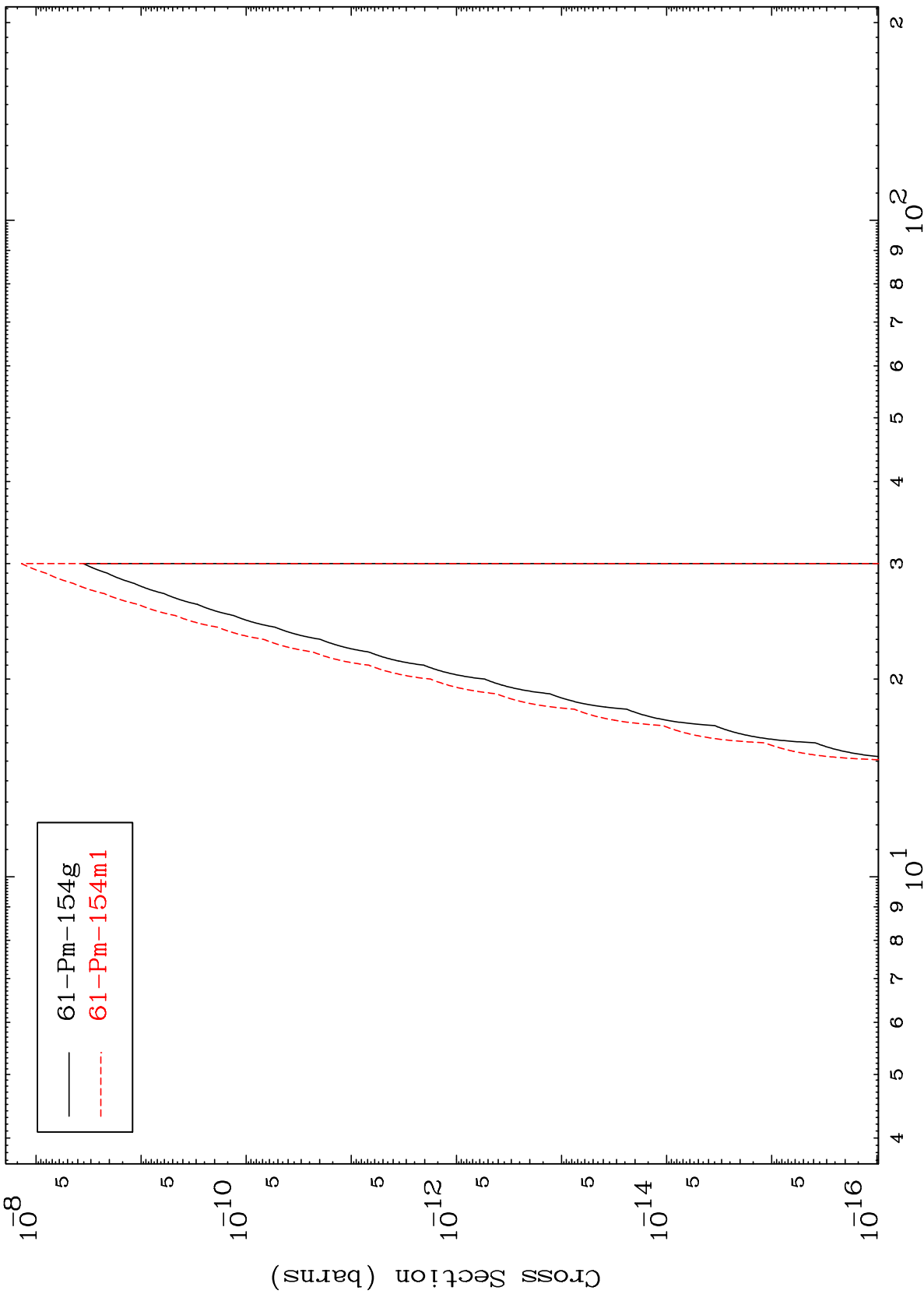
64-Gd-158

MAT 6443

(n,p)  $\alpha$

64-Gd-158

Radionuclide Production Cross Section



— 61-Pm-154g  
- - - 61-Pm-154m1

130

Incident Energy (MeV)

64-Gd-158