

Program EVALPLOT  
(Version 2021-1)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550  
U.S.A.

Tele: 925-443-1911

E.Mail:redcullen1@comcast.net

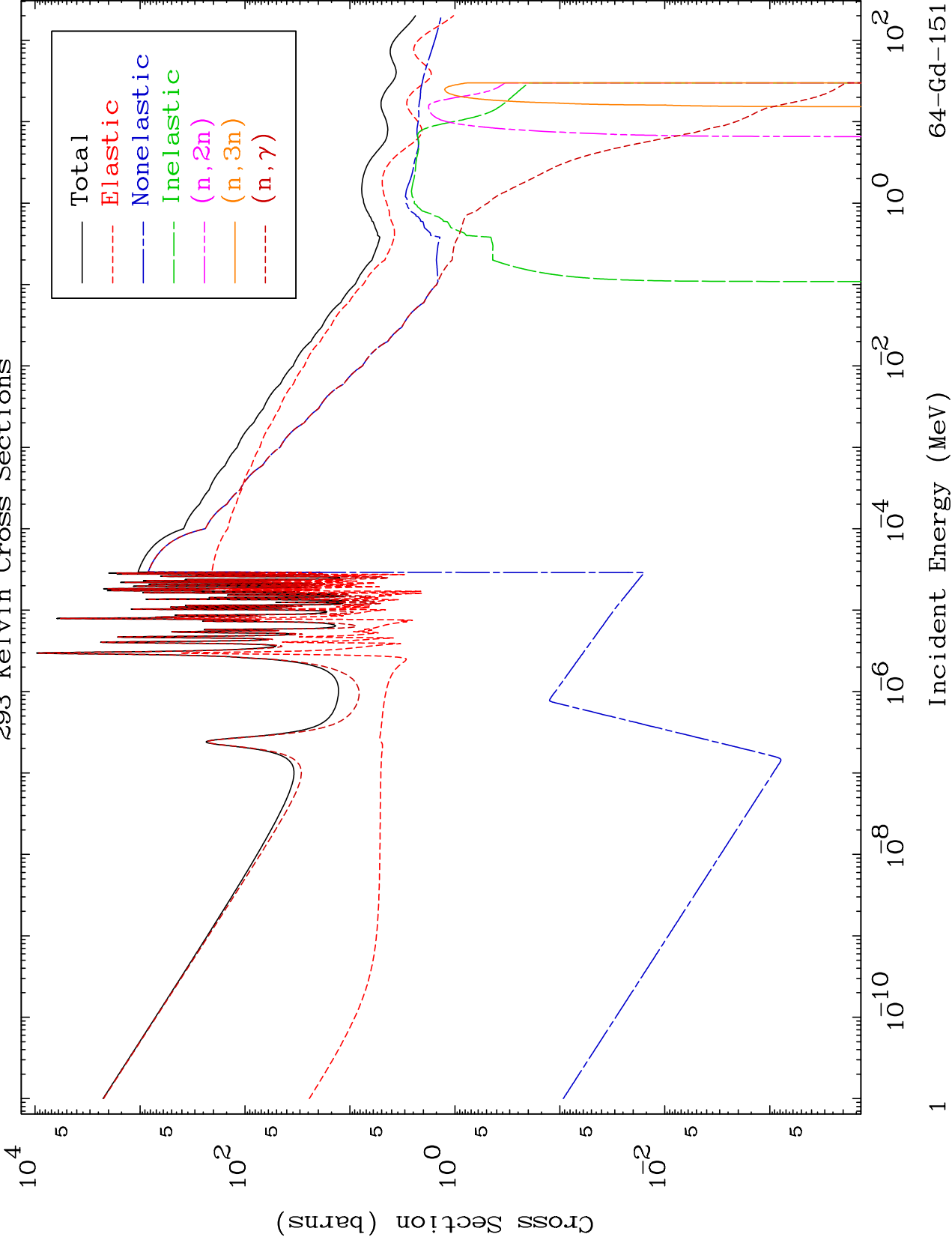
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6422

Neutron Major  
293 Kelvin Cross Sections

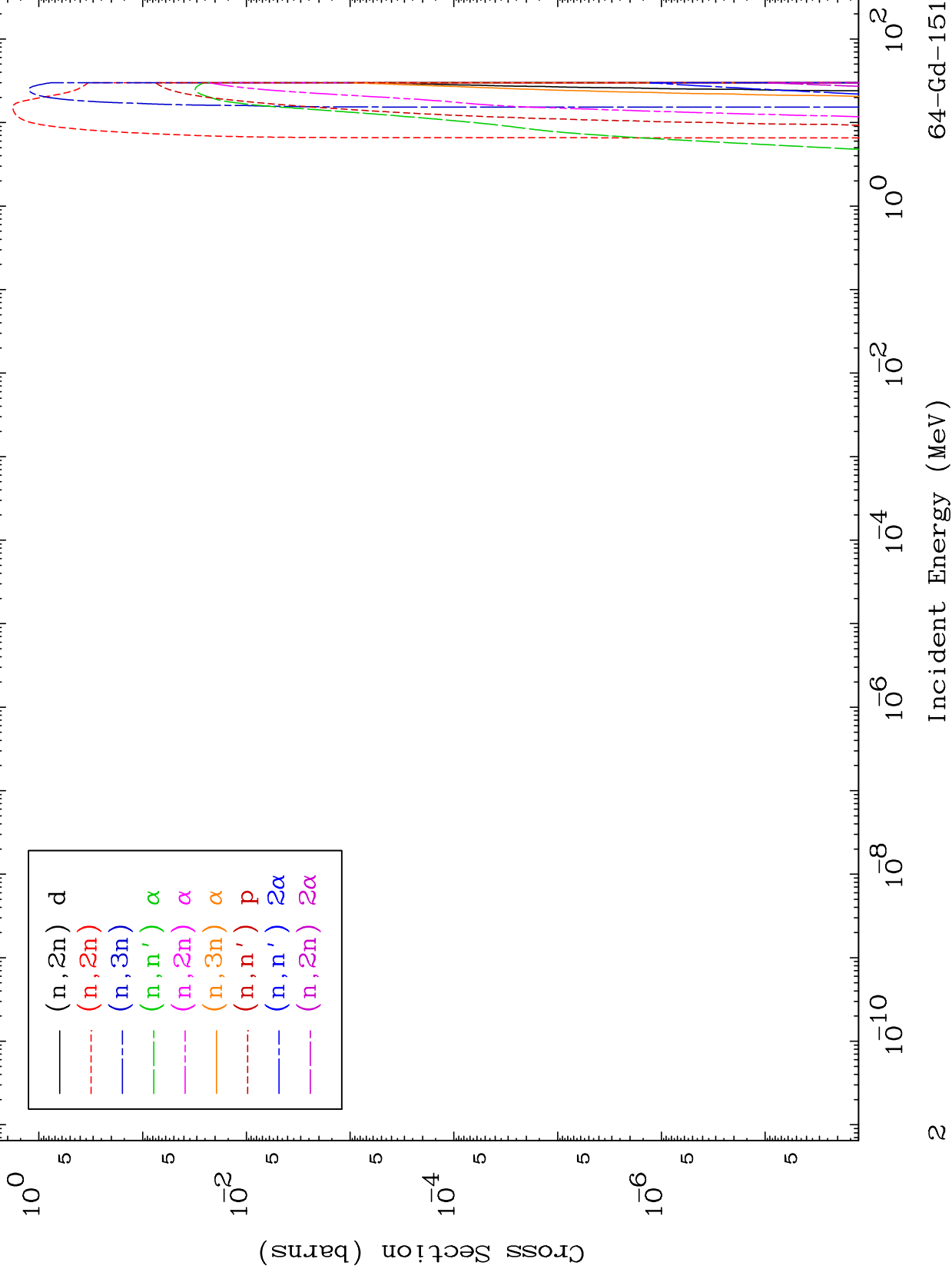
64-Gd-151



MAT 6422

Neutron Absorption  
293 Kelvin Cross Sections

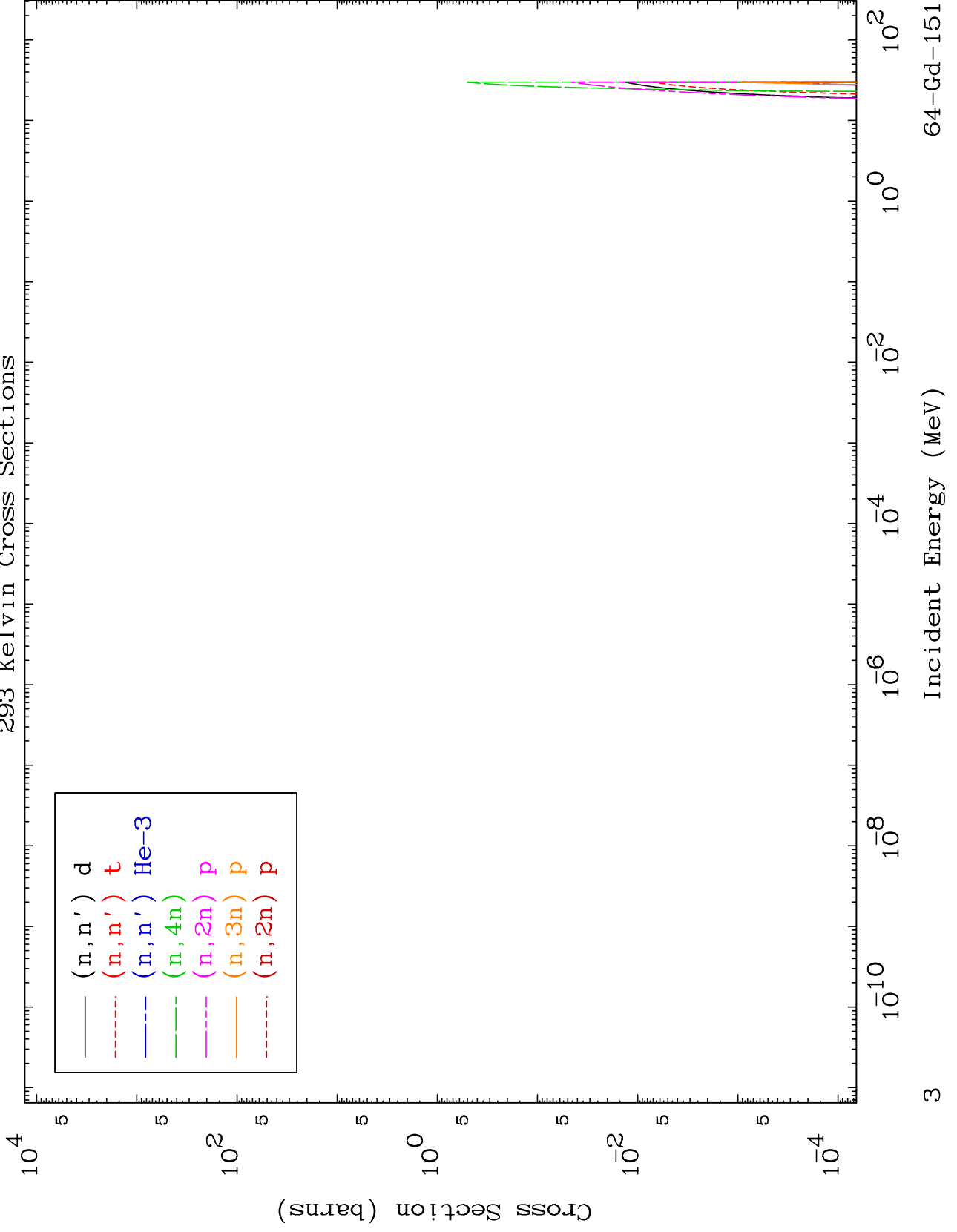
64-Gd-151



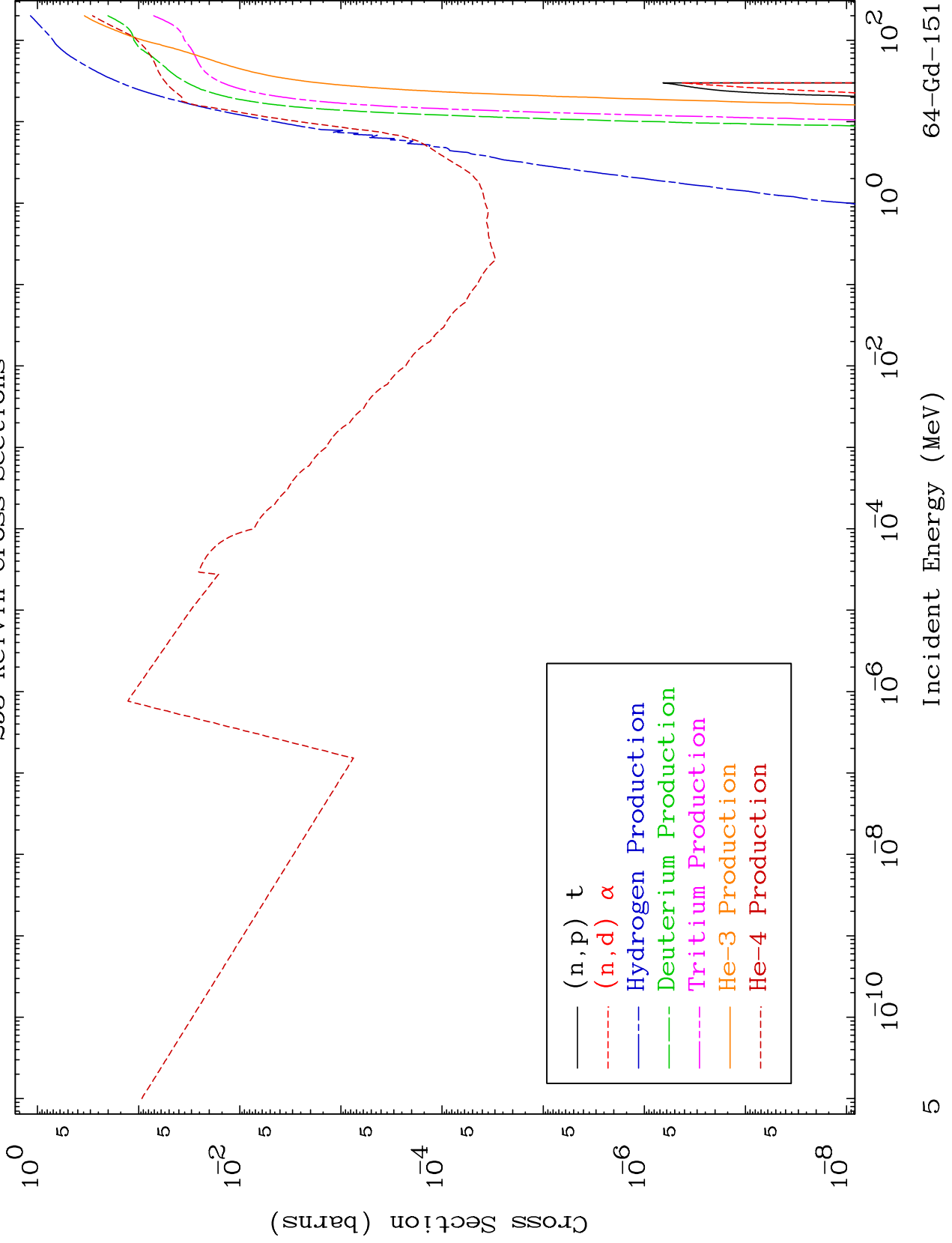
MAT 6422

Neutron Absorption  
293 Kelvin Cross Sections

64-Gd-151



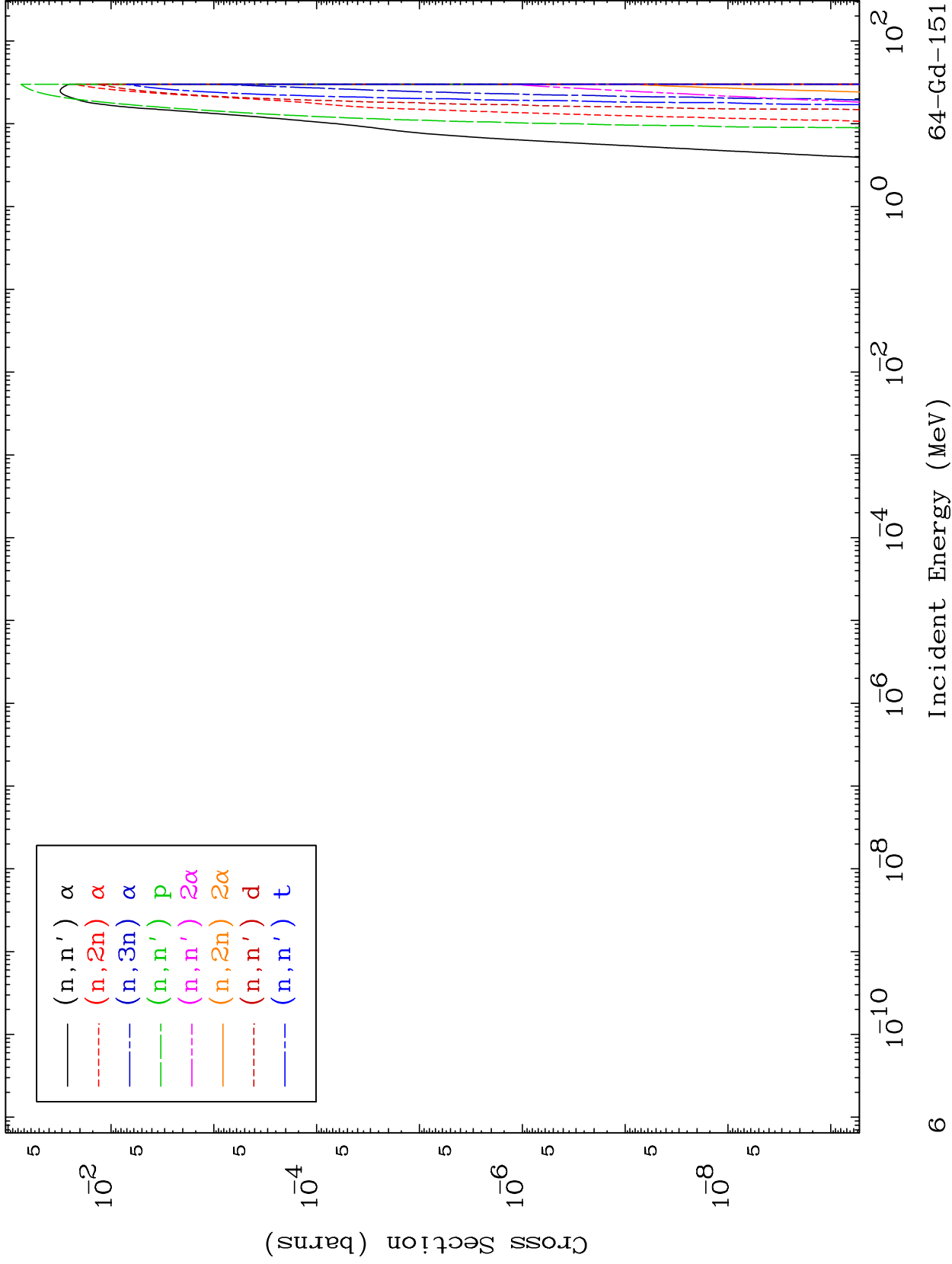




MAT 6422

Charged Particle  
293 Kelvin Cross Sections

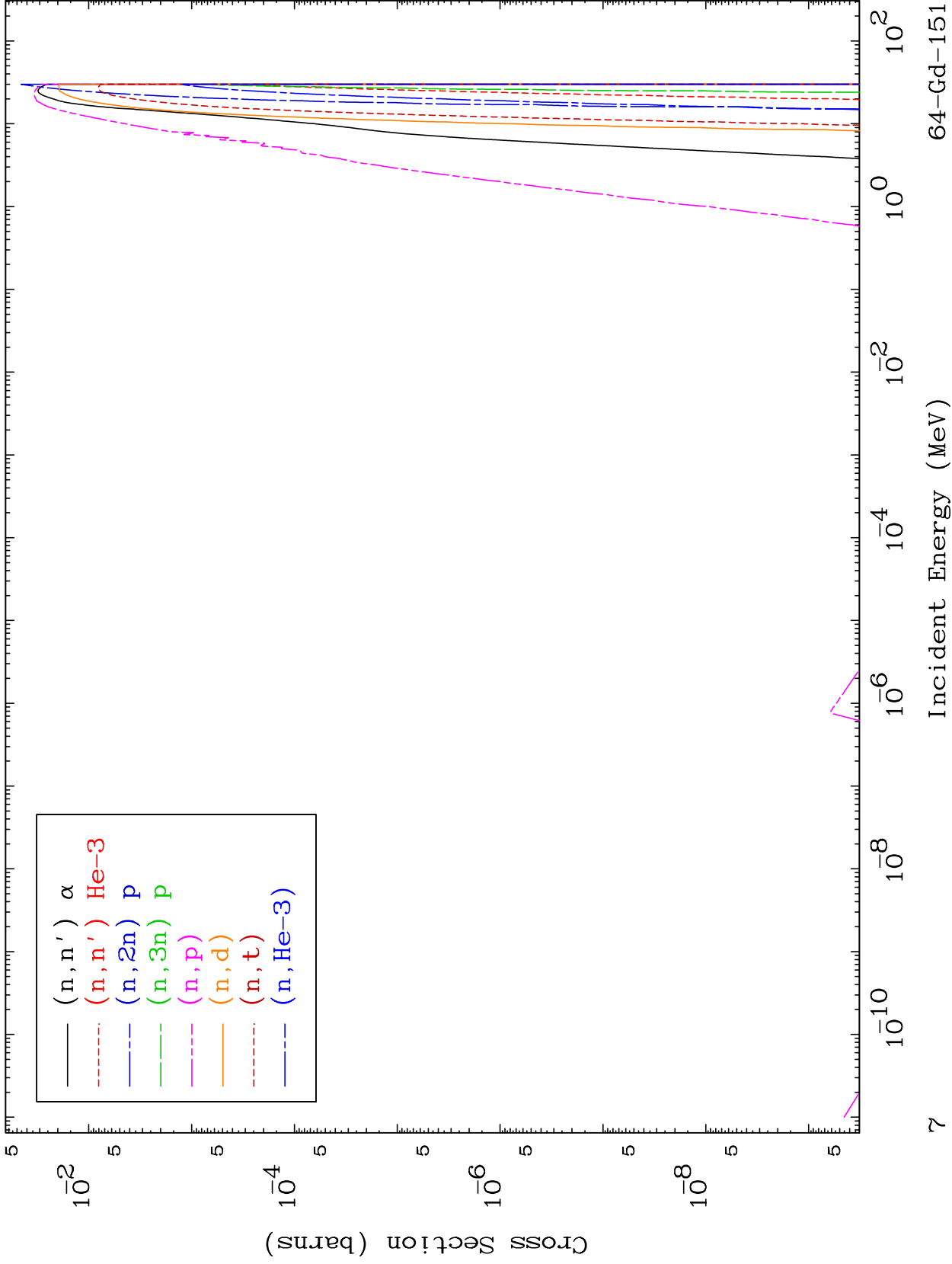
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MAT 6422

Charged Particle  
293 Kelvin Cross Sections

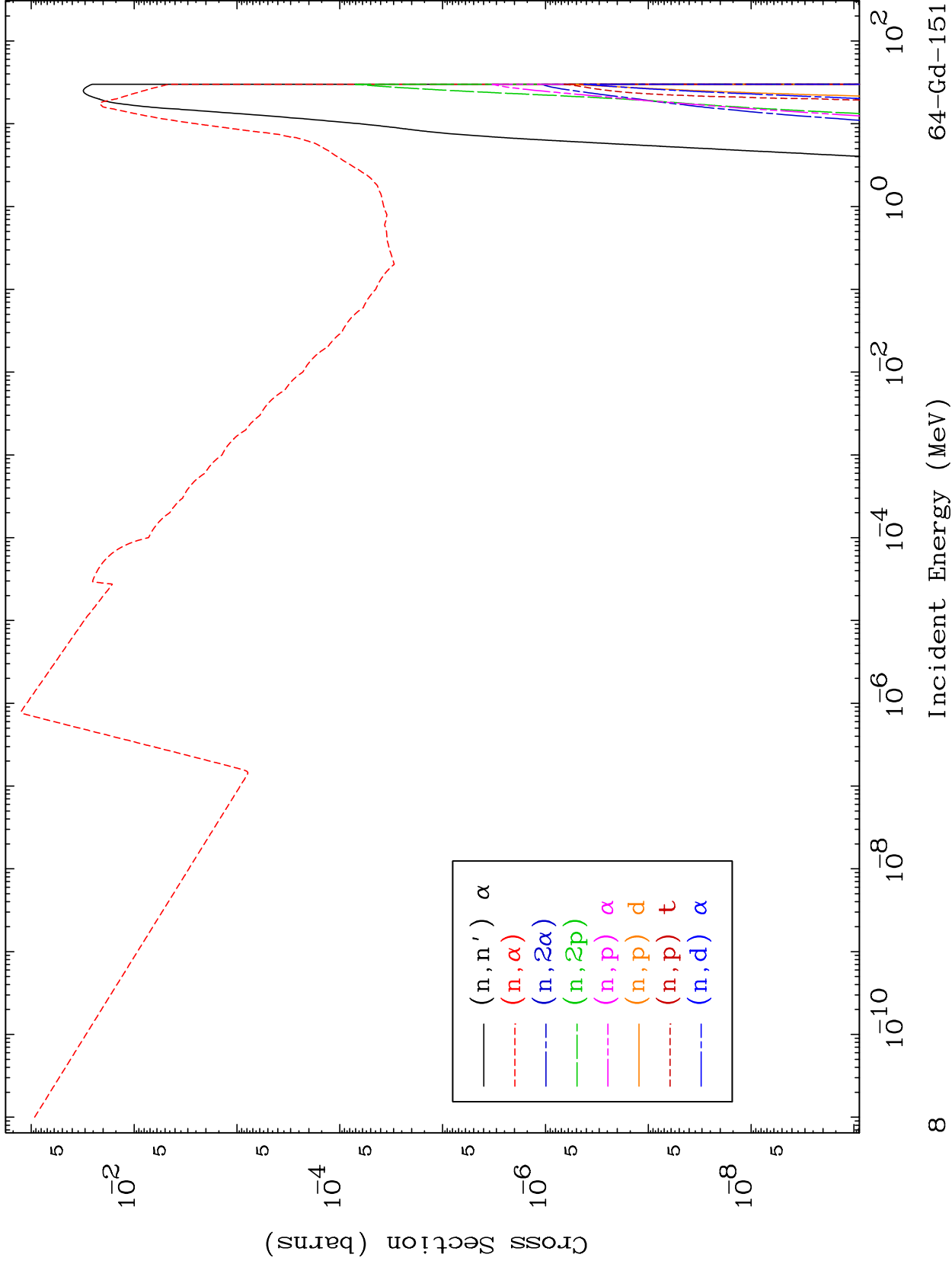
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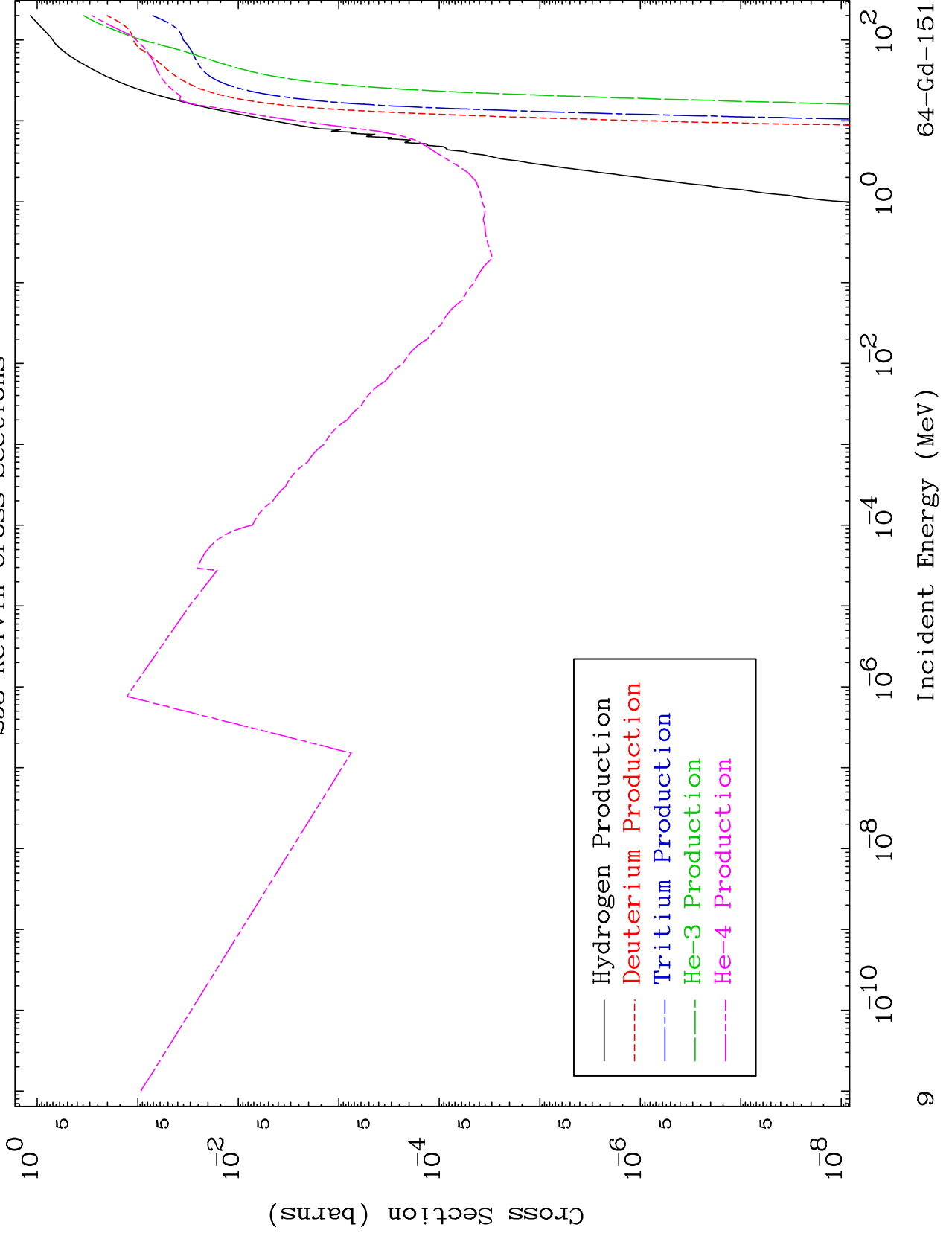


MAT 6422

Charged Particle  
293 Kelvin Cross Sections

64-Gd-151



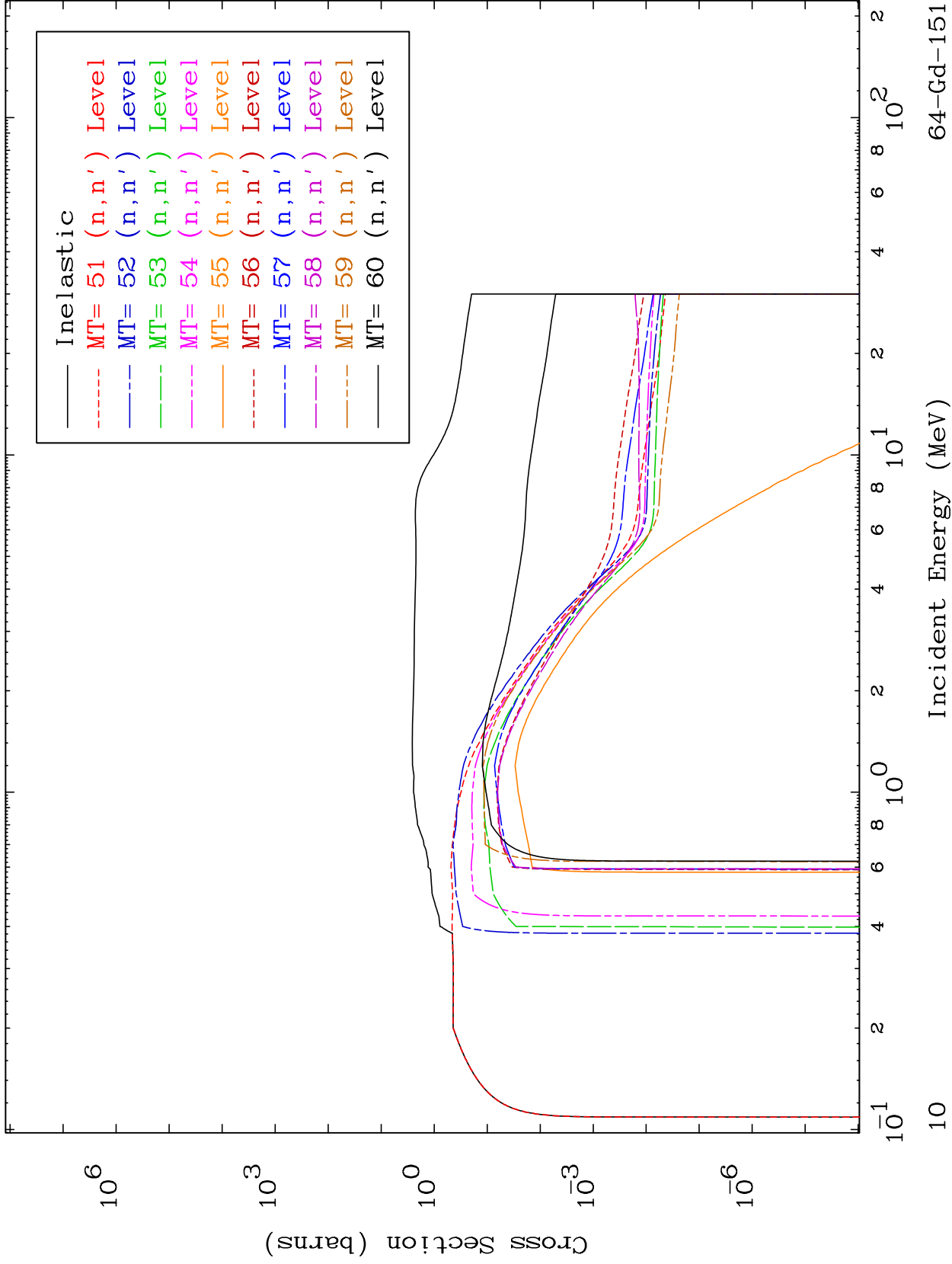


MAT 6422

(n,n') Levels

64-Gd-151

293 Kelvin Cross Sections



Incident Energy (MeV)

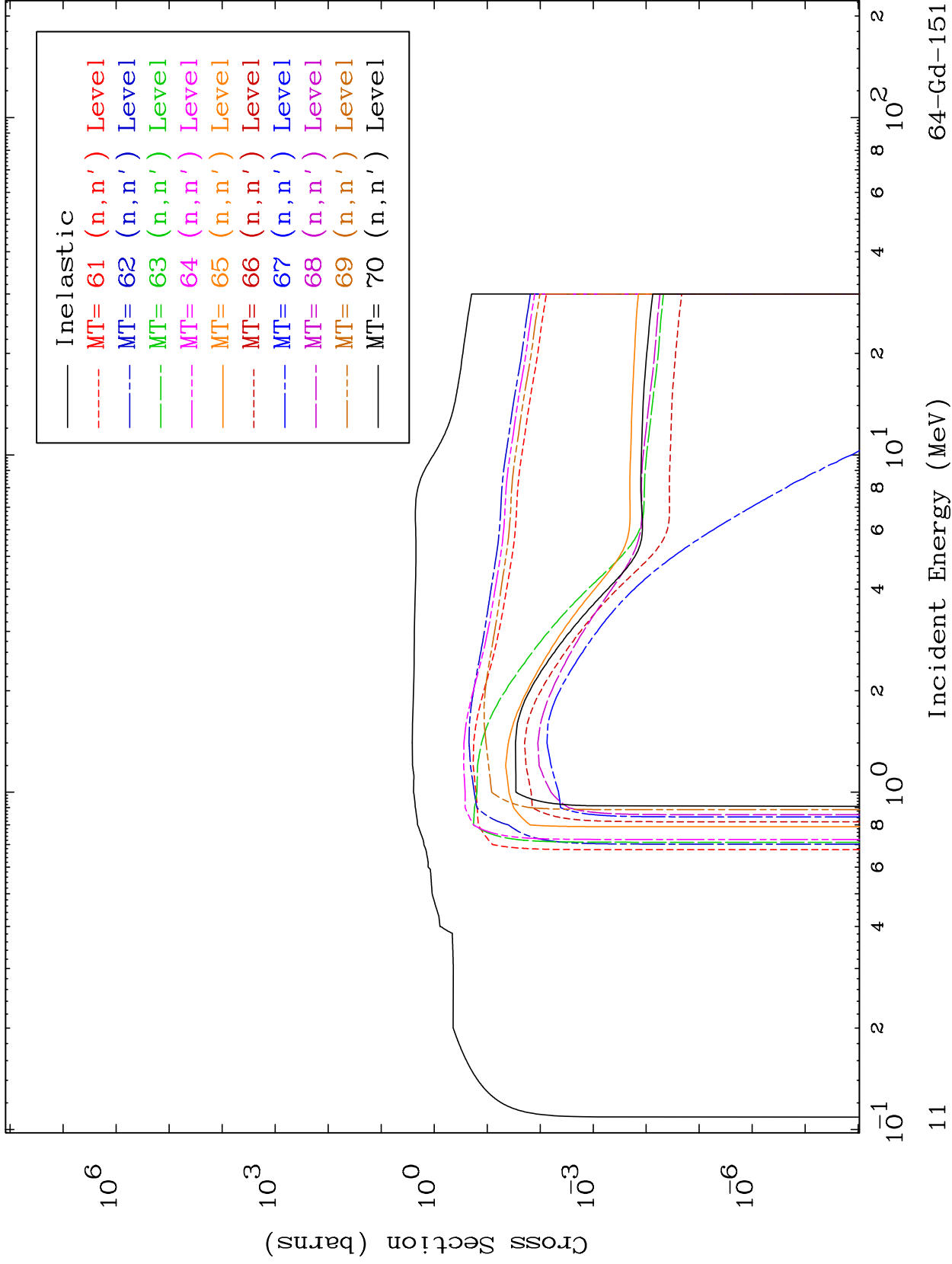
64-Gd-151

MAT 6422

(n,n') Levels

64-Gd-151

293 Kelvin Cross Sections



11

Incident Energy (MeV)

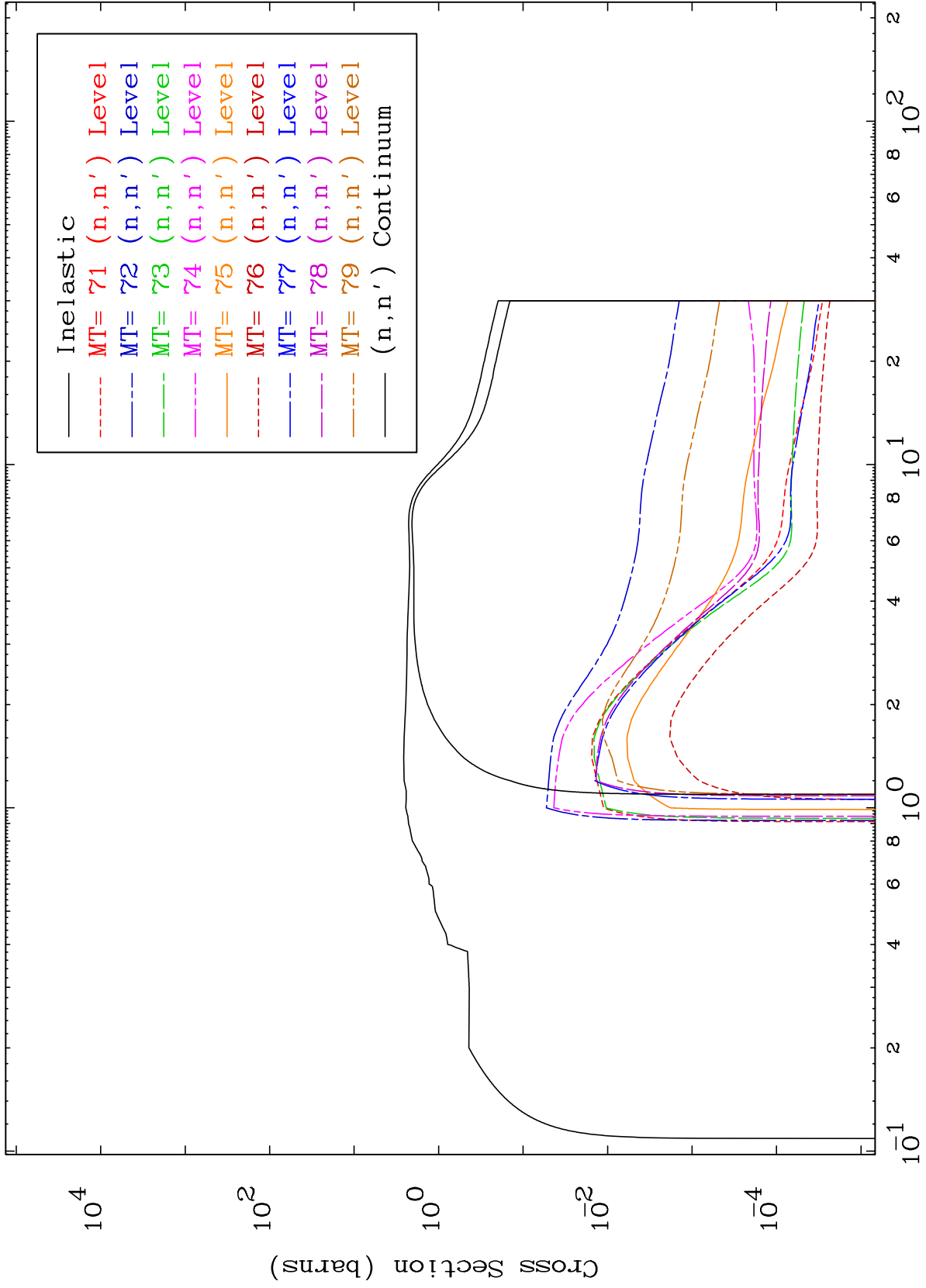
64-Gd-151

MAT 6422

(n,n') Levels

64-Gd-151

293 Kelvin Cross Sections



12

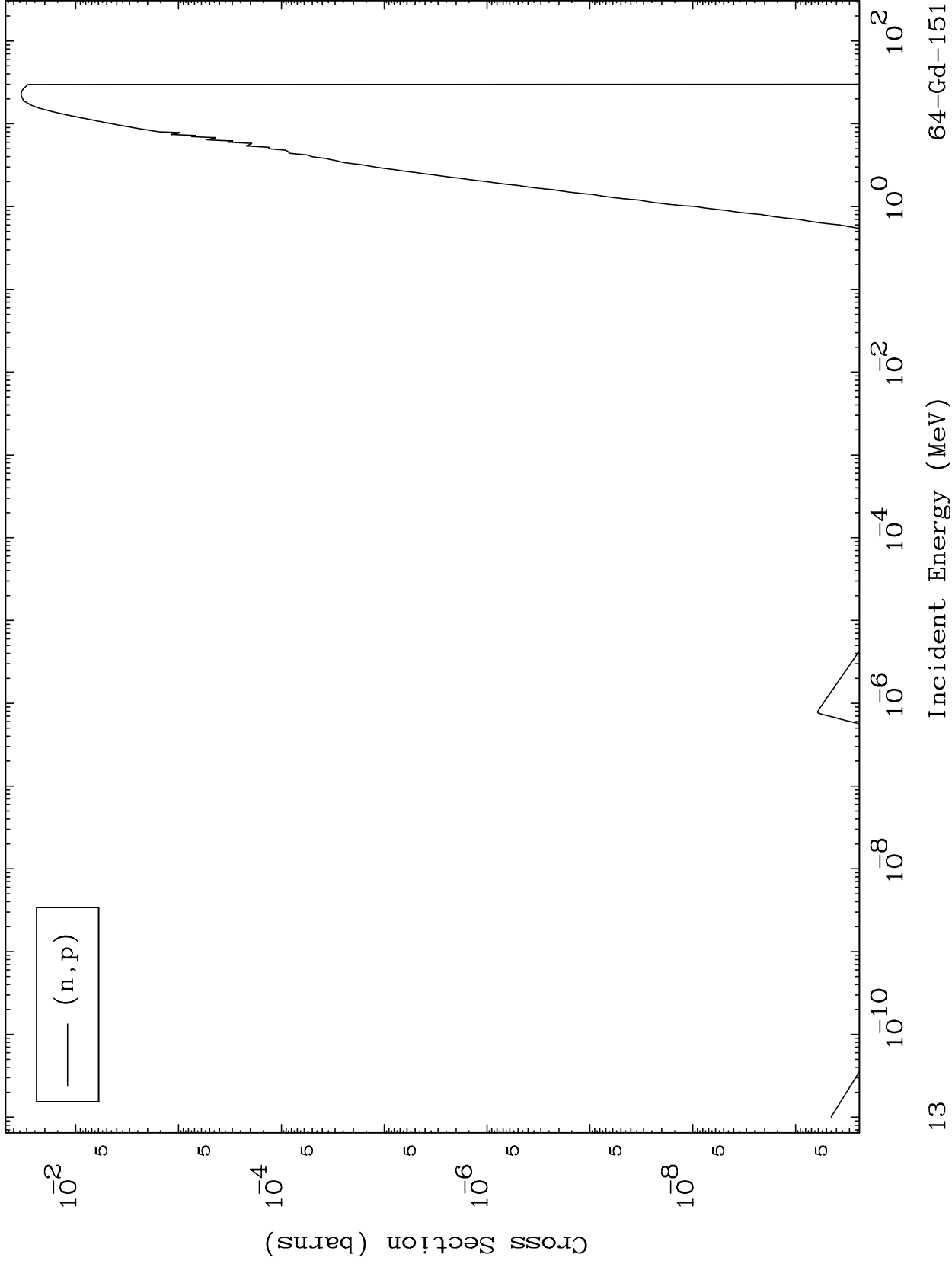
Incident Energy (MeV)

64-Gd-151

MAT 6422

(n,p) Levels  
293 Kelvin Cross Sections

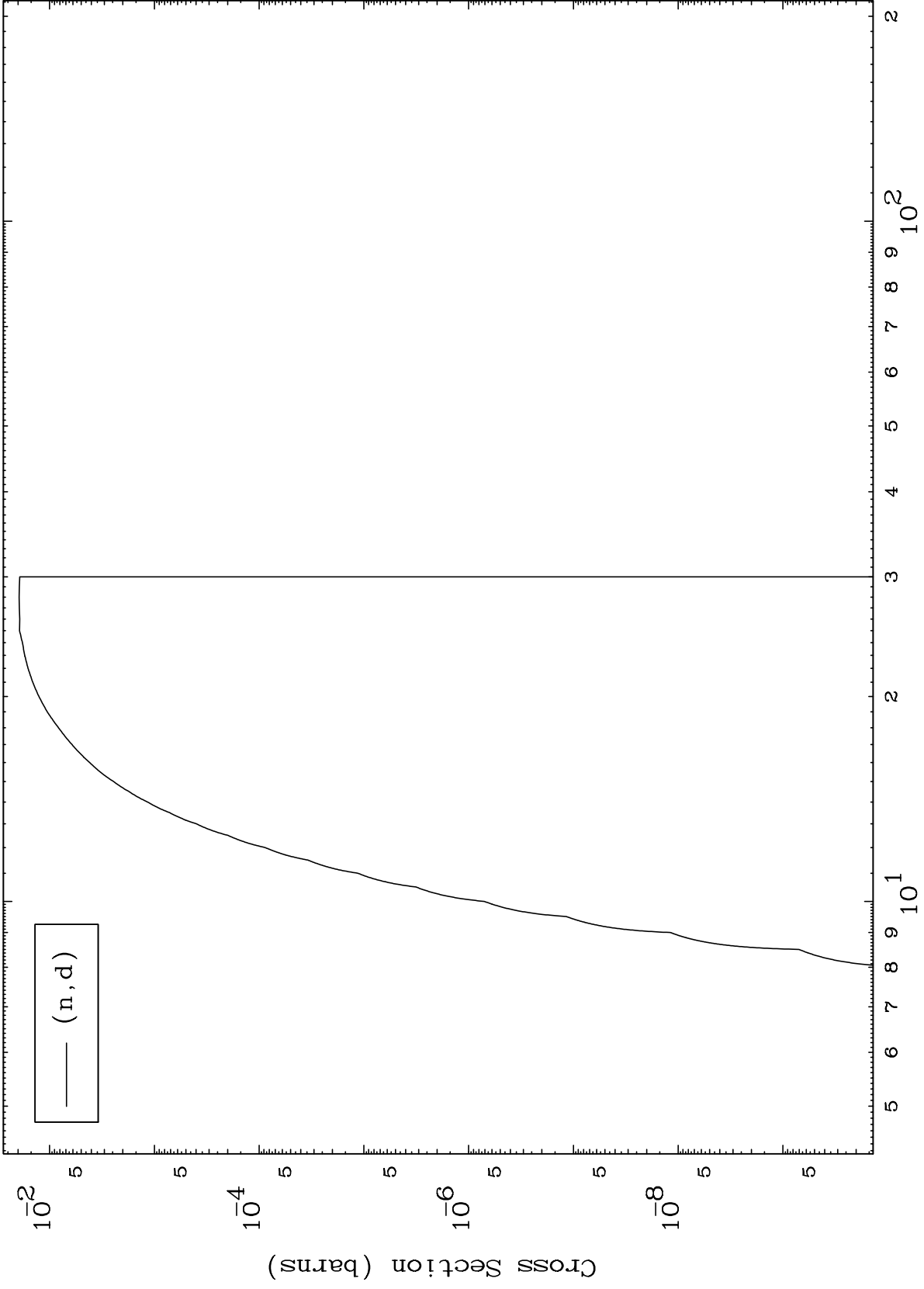
64-Gd-151



MAT 6422

(n,d) Levels  
293 Kelvin Cross Sections

64-Gd-151



14

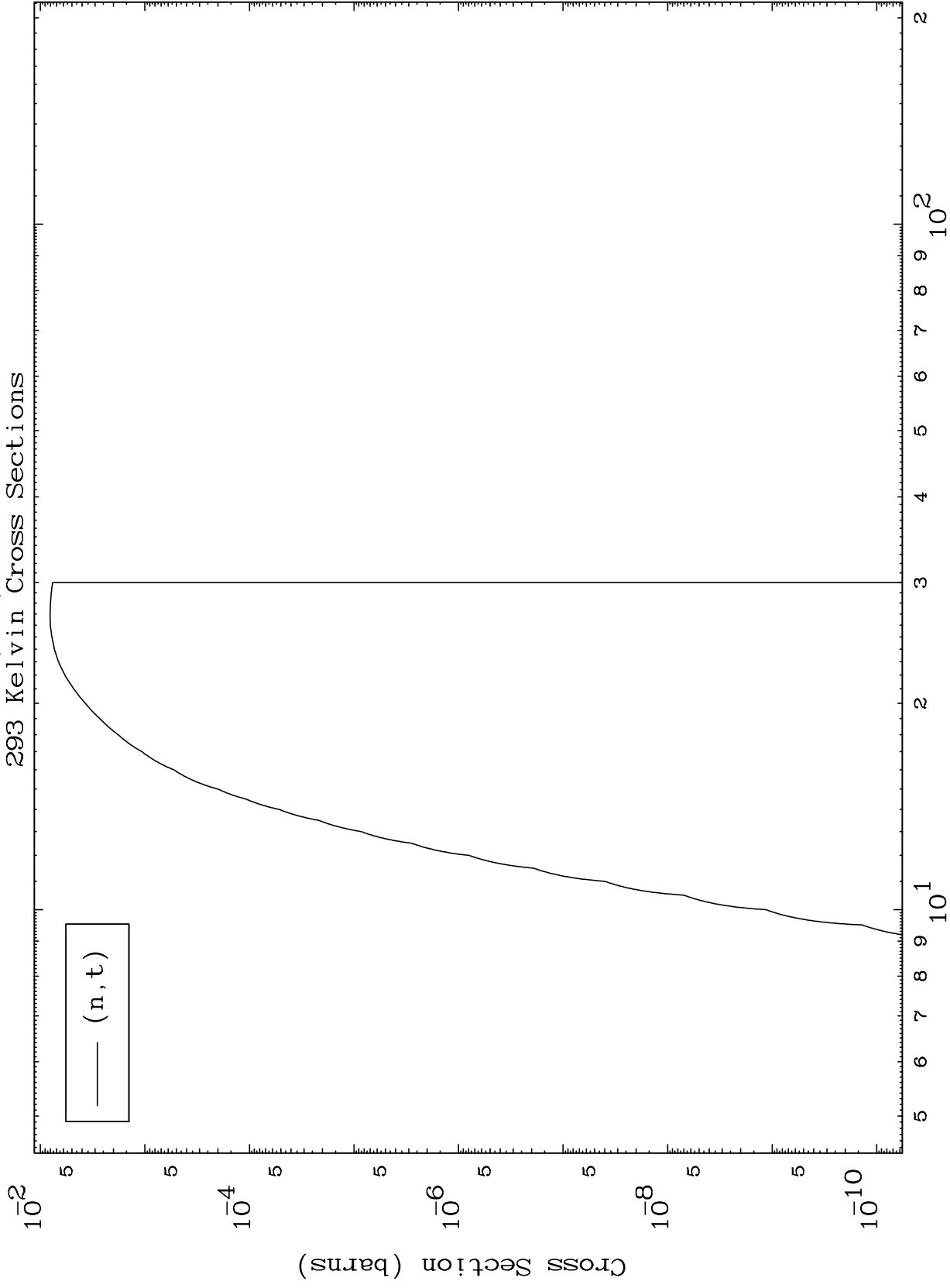
Incident Energy (MeV)

64-Gd-151

MAT 6422

(n,t) Levels  
293 Kelvin Cross Sections

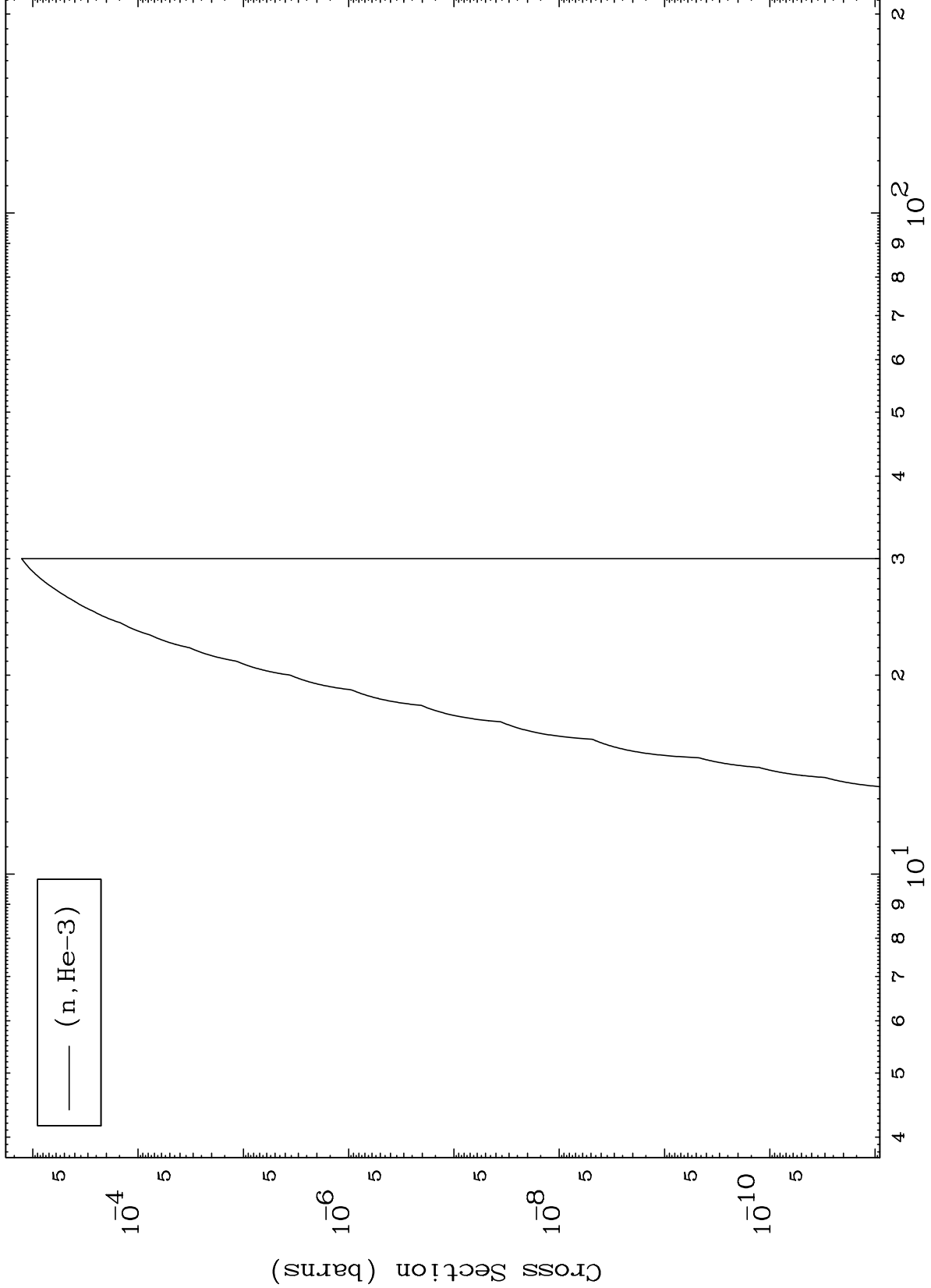
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15

Incident Energy (MeV)

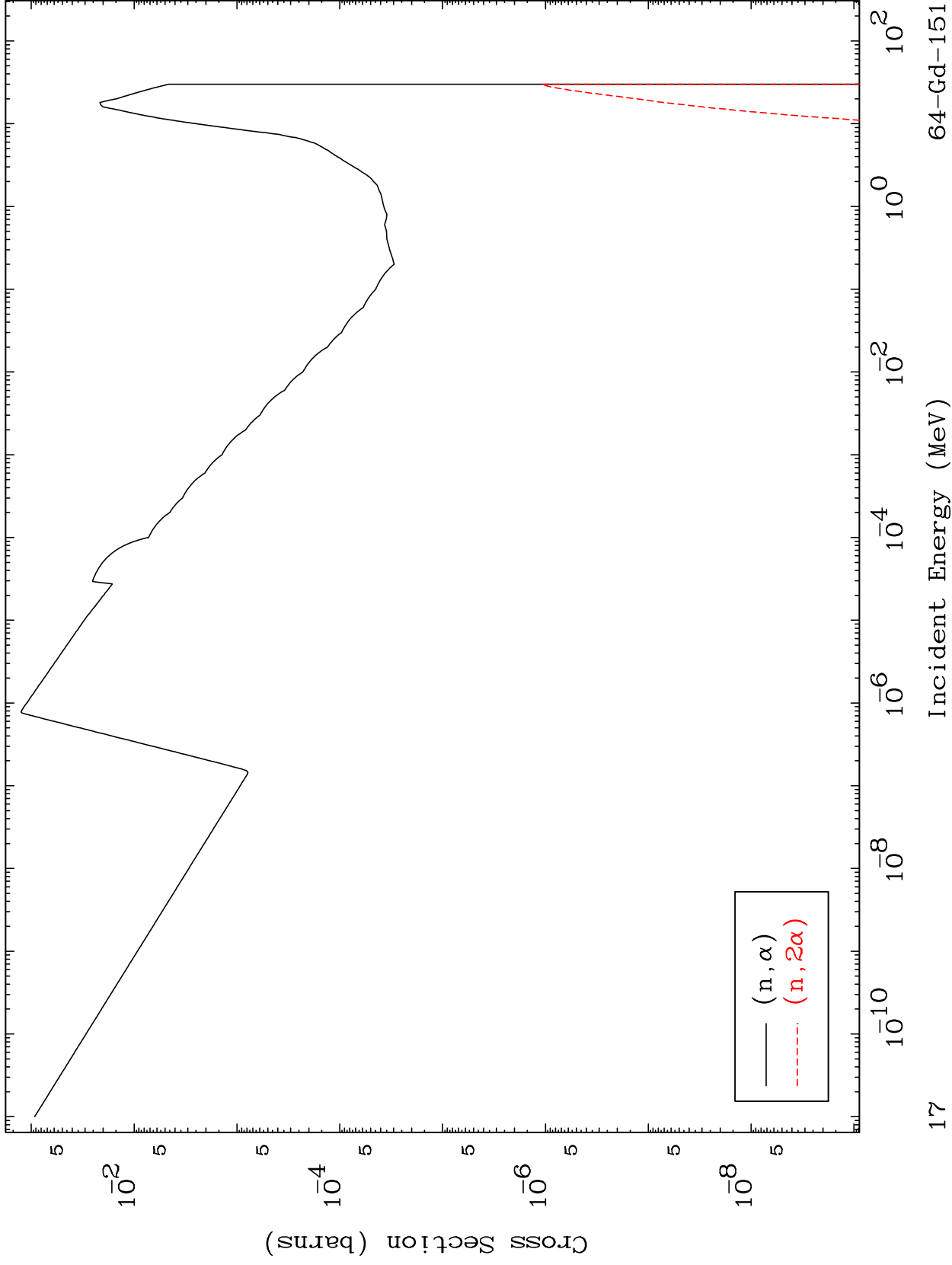
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MAT 6422

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

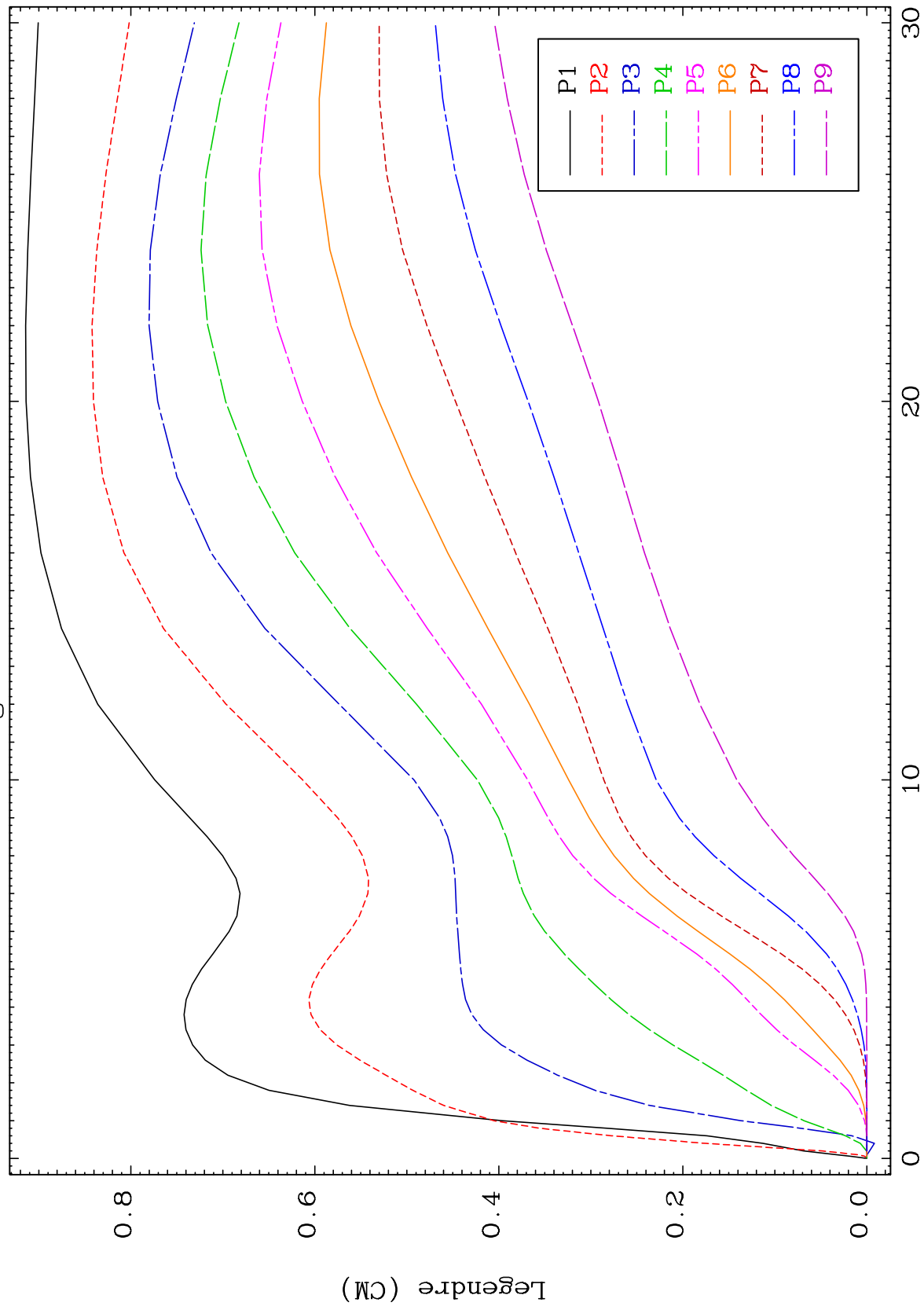
64-Gd-151



MAT 6422

Elastic Legendre Coefficients

64-Gd-151



18

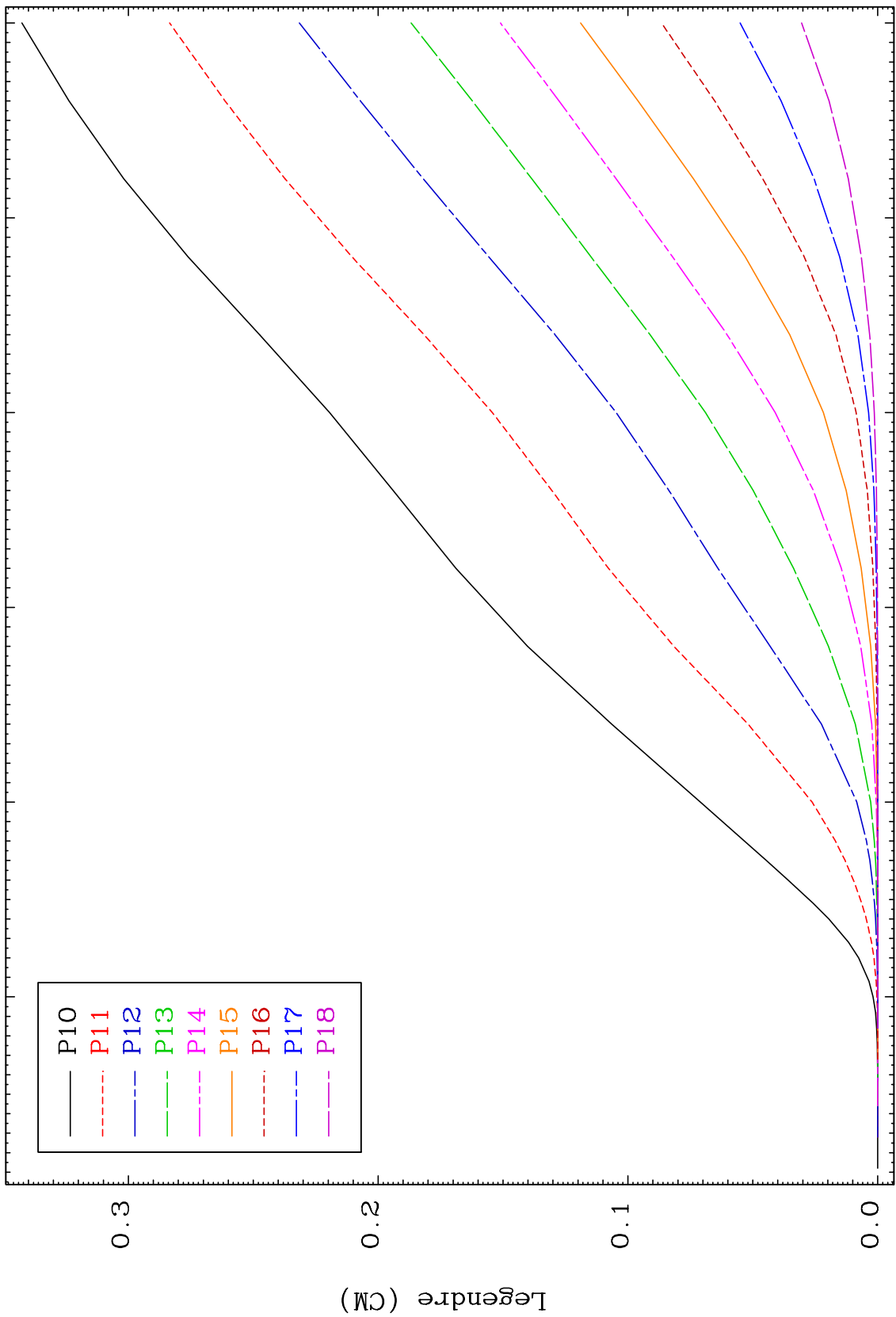
Incident Energy (MeV)

64-Gd-151

MAT 6422

Elastic Legendre Coefficients

64-Gd-151



19

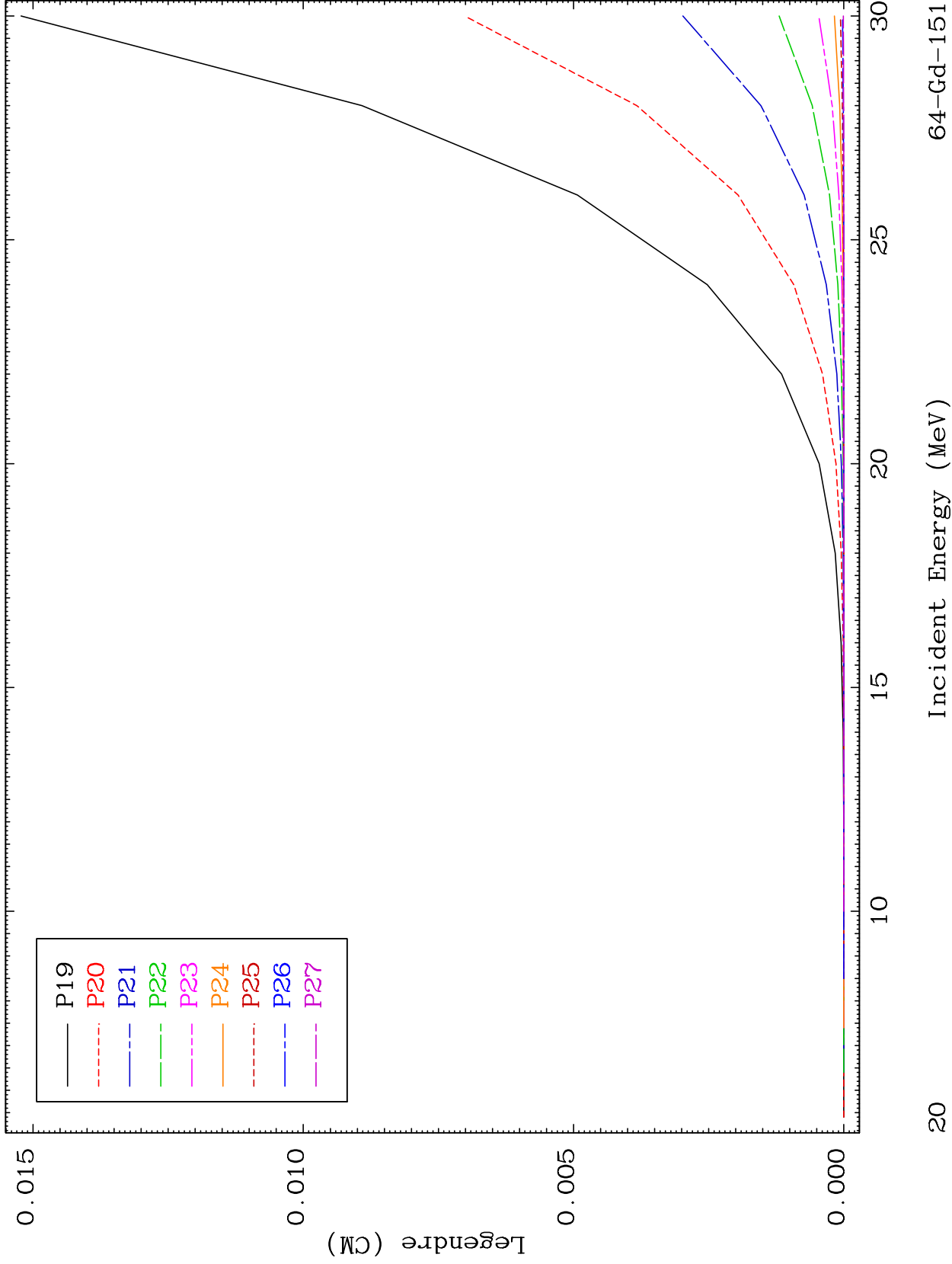
64-Gd-151

Incident Energy (MeV)

MAT 6422

Elastic  
Legendre Coefficients

64-Gd-151



20

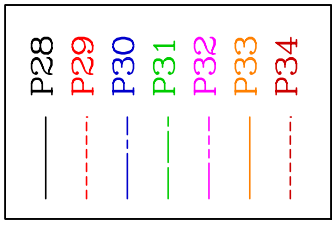
Incident Energy (MeV)

64-Gd-151

MAT 6422

Elastic Legendre Coefficients

64-Gd-151



$\times 10^{-6}$   
2.0  
1.5

Legendre (CM)

1.0  
0.5  
0.0

10

15

20

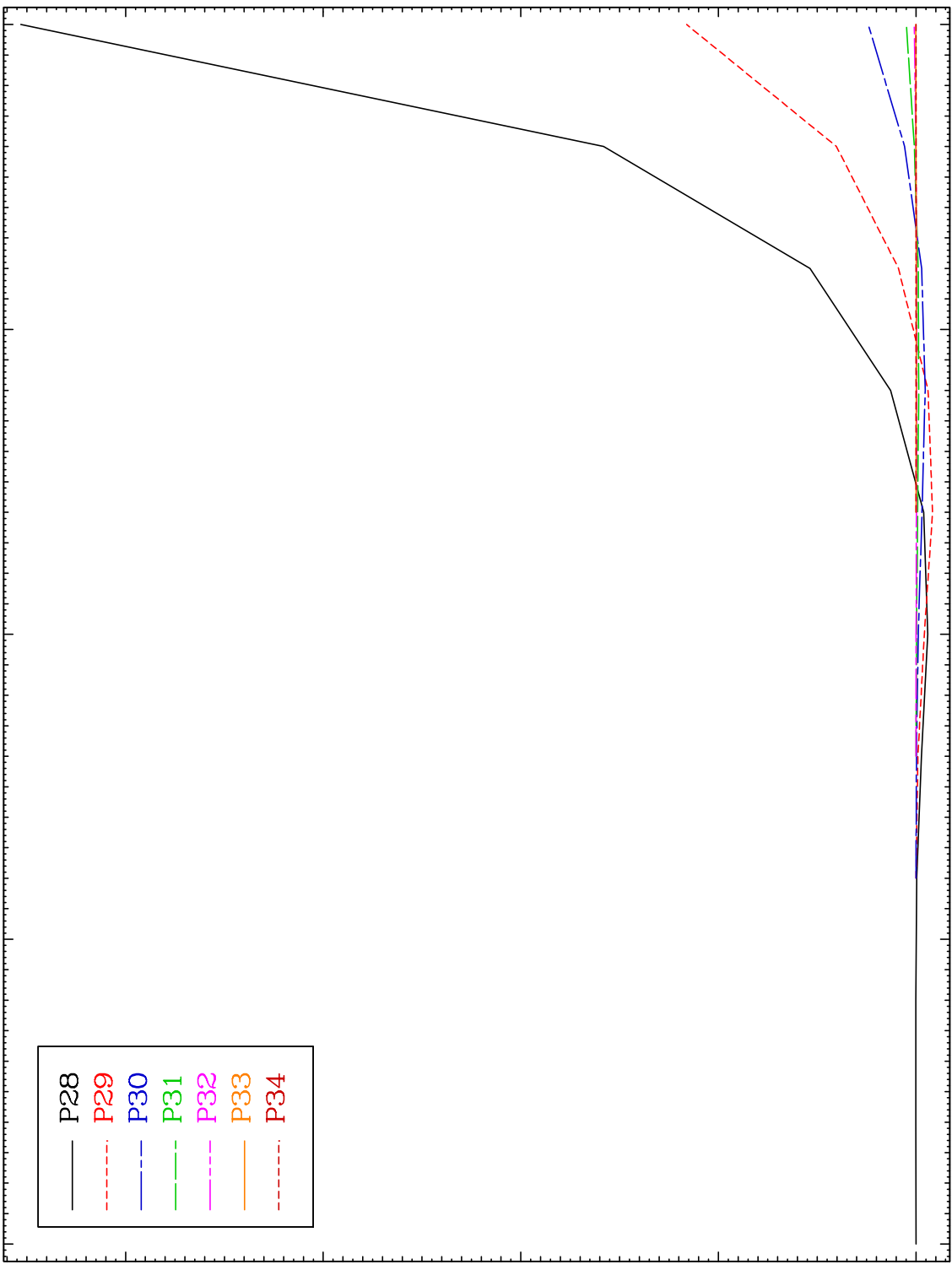
25

30

21

Incident Energy (MeV)

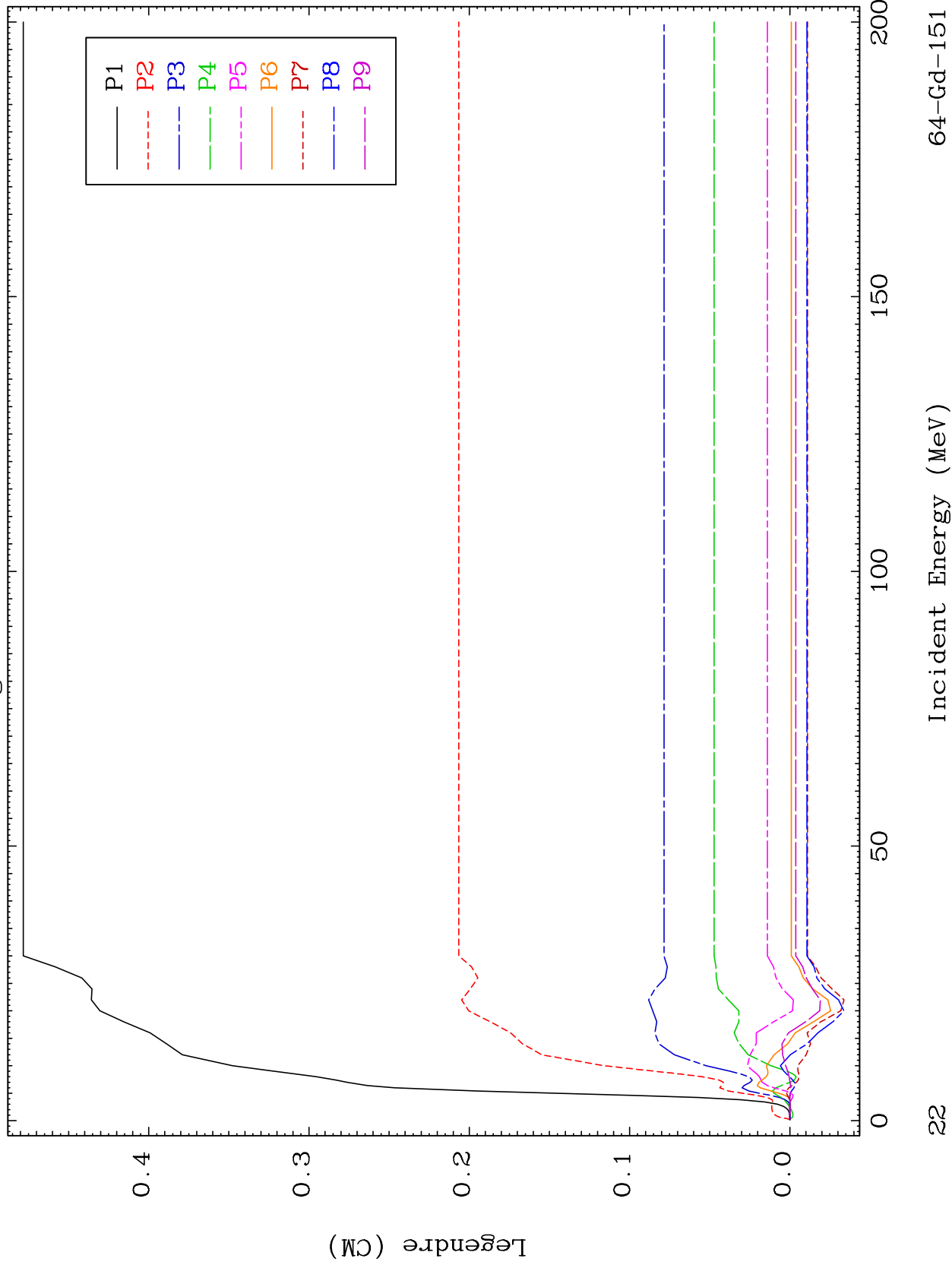
64-Gd-151



MAT 6422

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

64-Gd-151



64-Gd-151

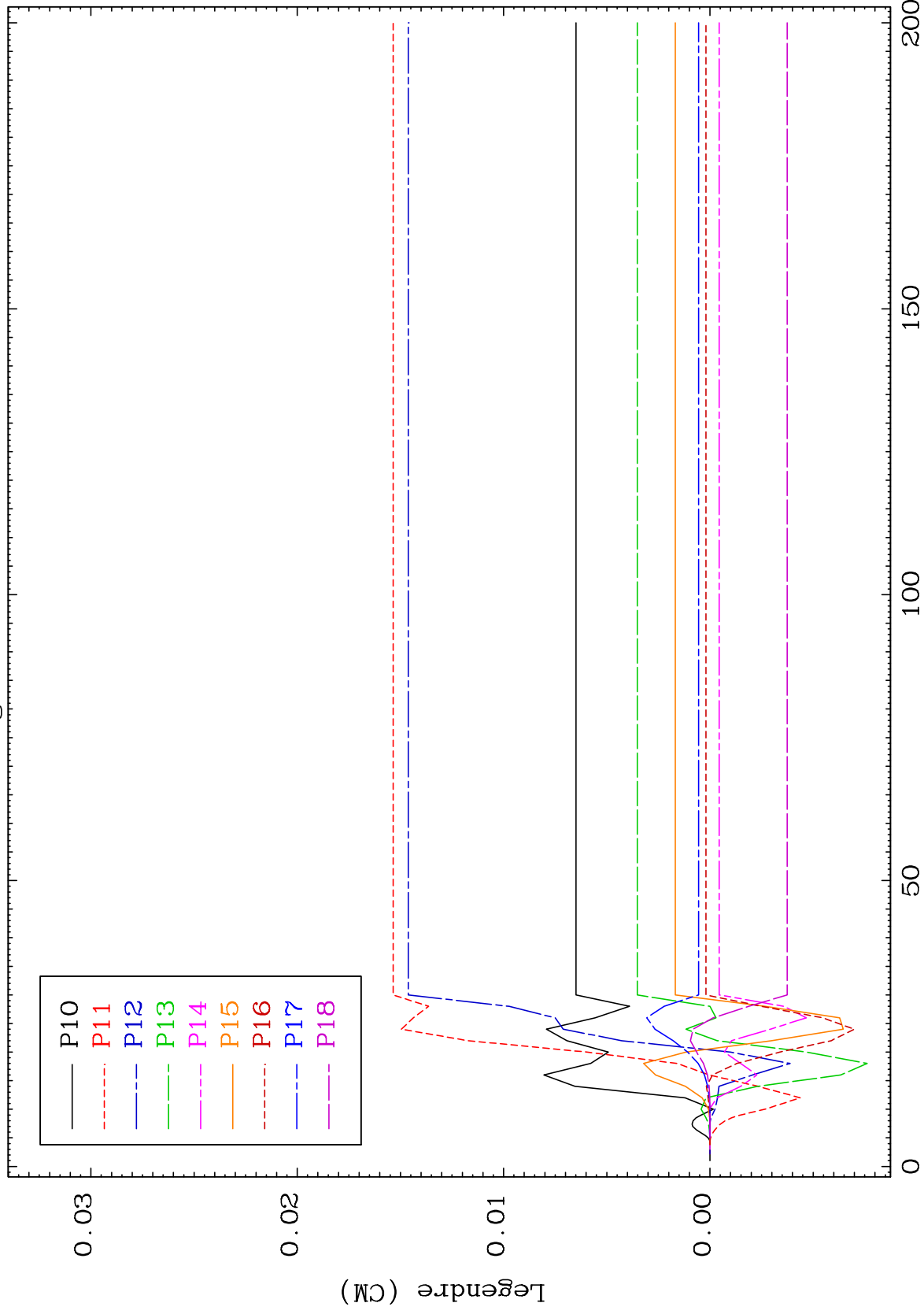
Incident Energy (MeV)

22

MAT 6422

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

64-Gd-151



23

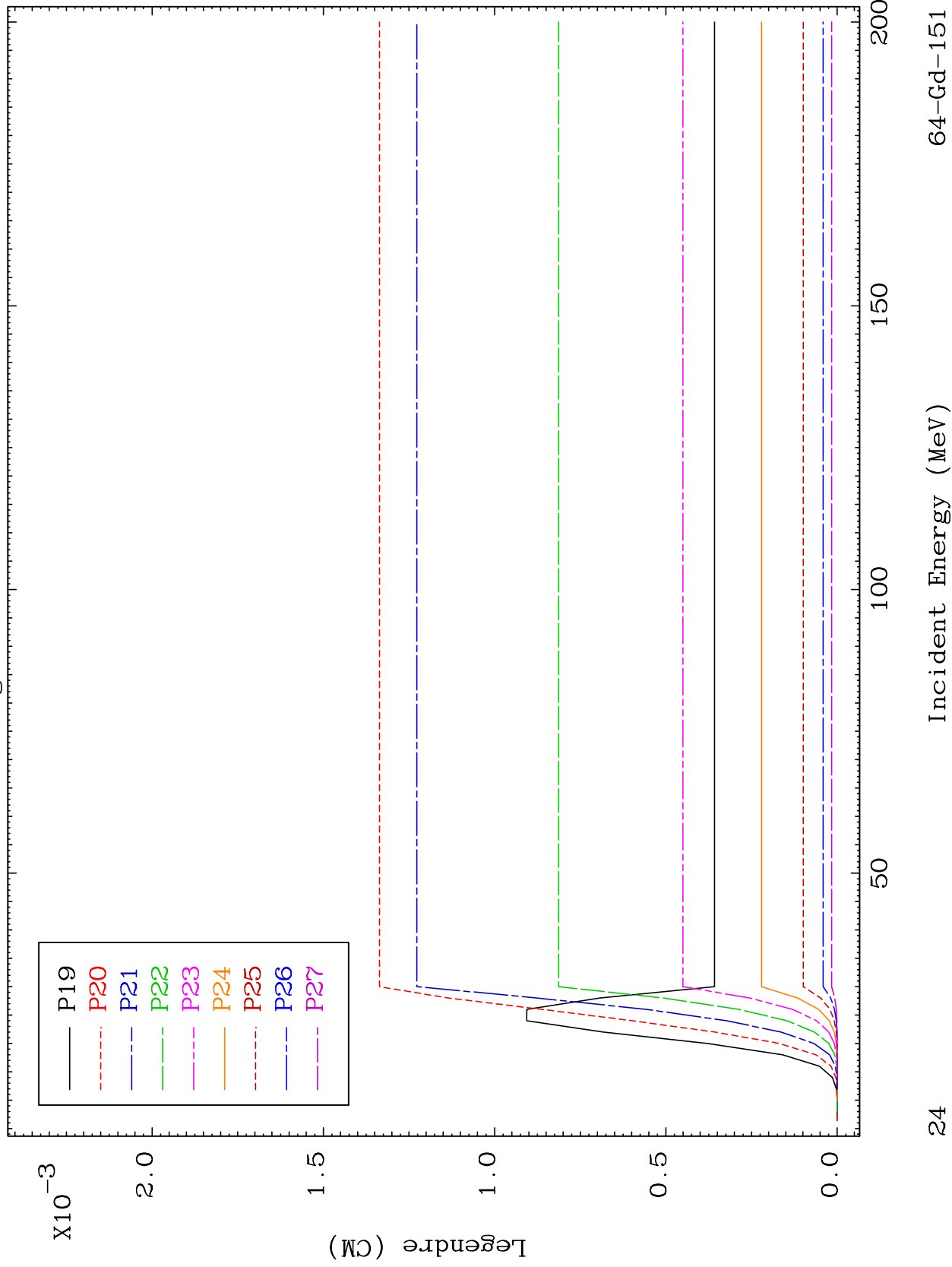
Incident Energy (MeV)

64-Gd-151

MAT 6422

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

64-Gd-151



24

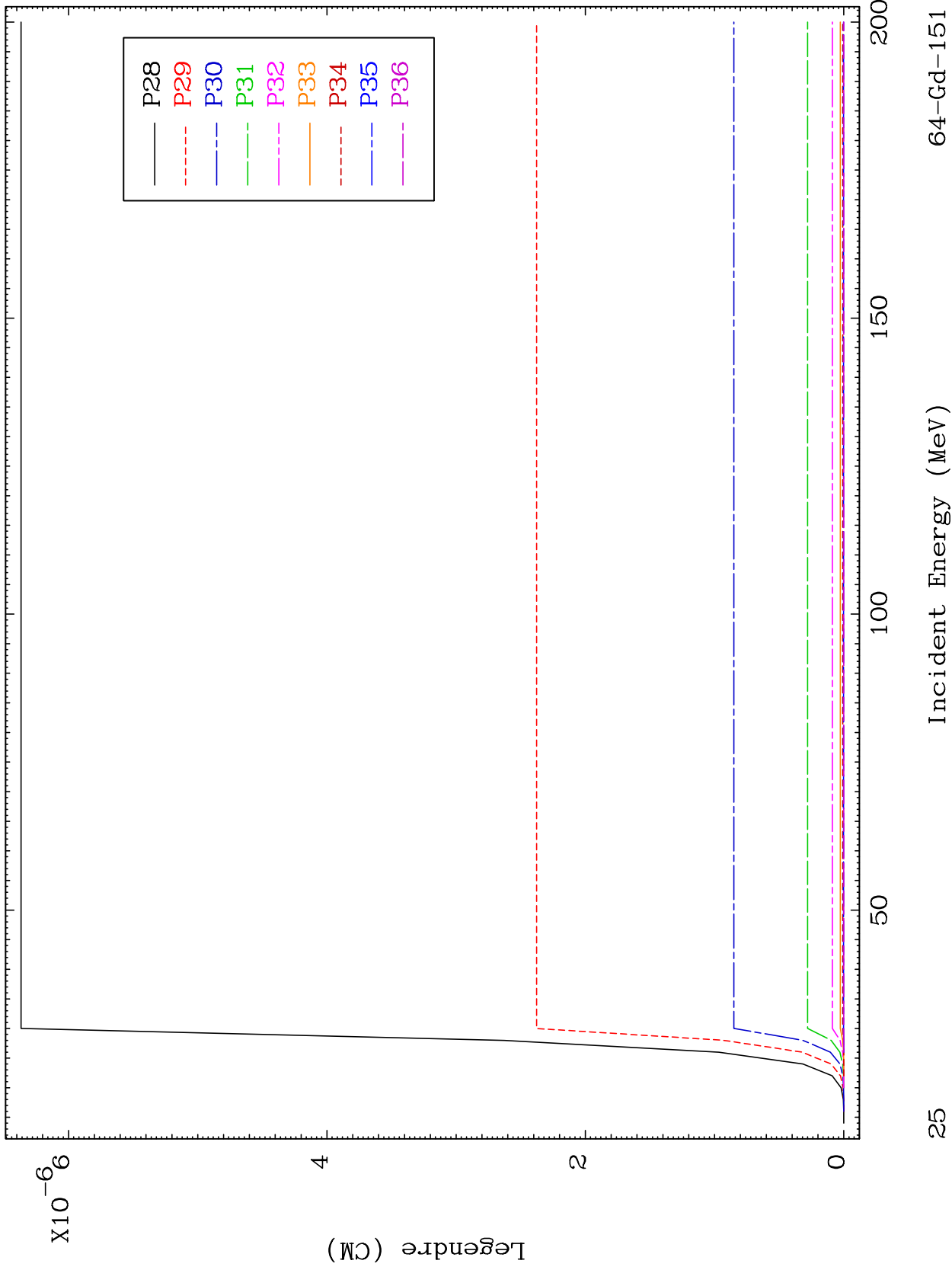
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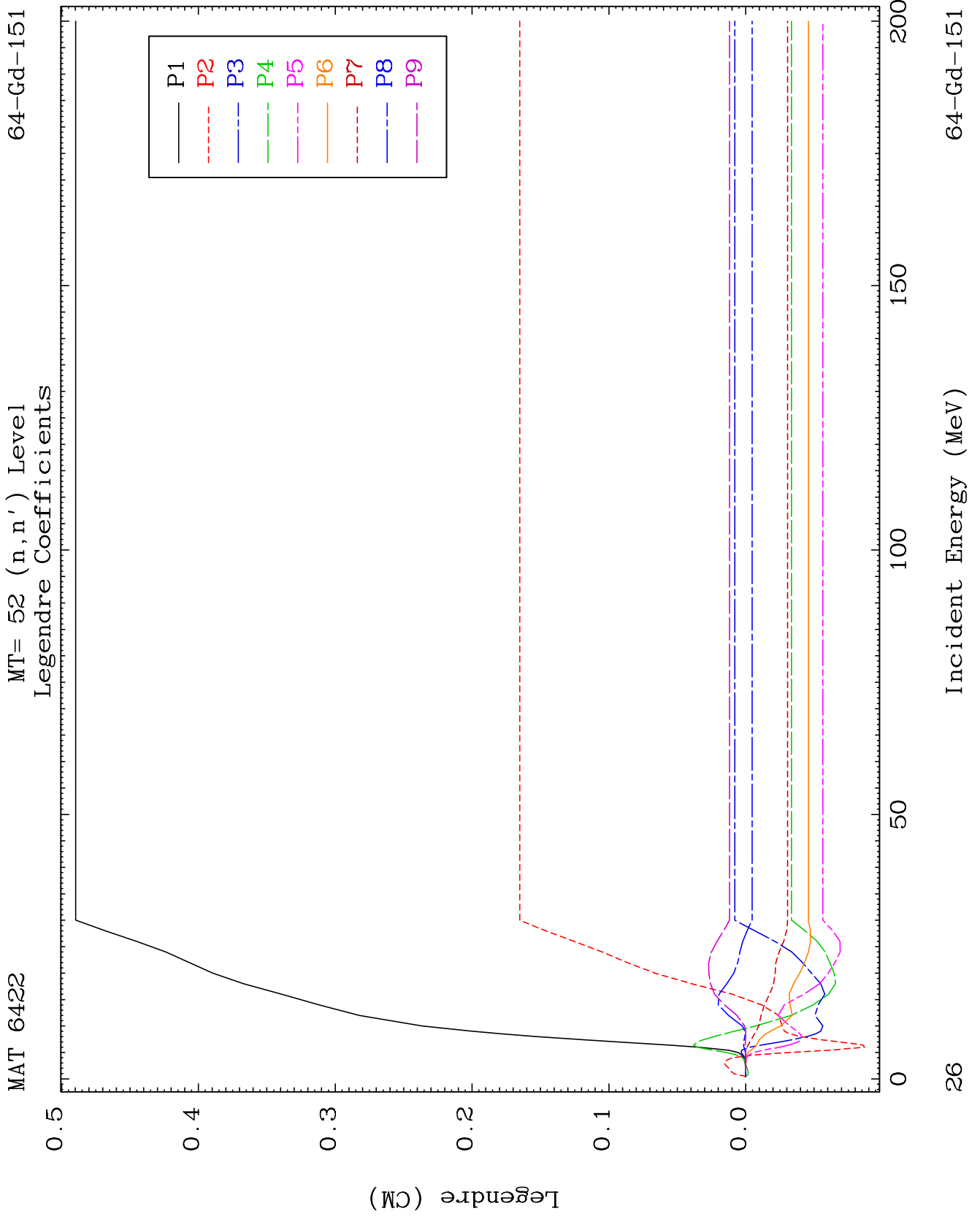
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MAT 6422

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

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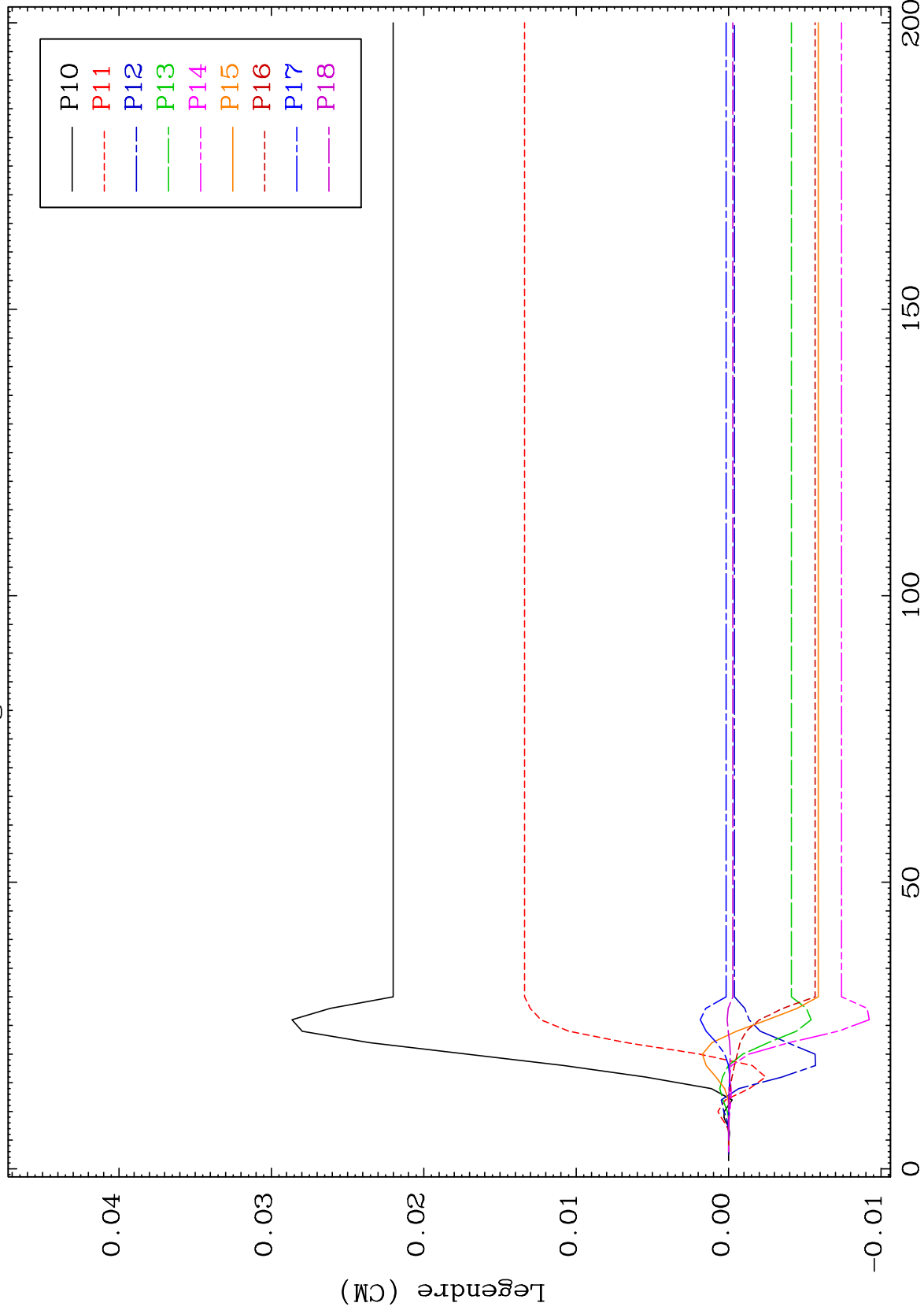




MAT 6422

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

64-Gd-151



27

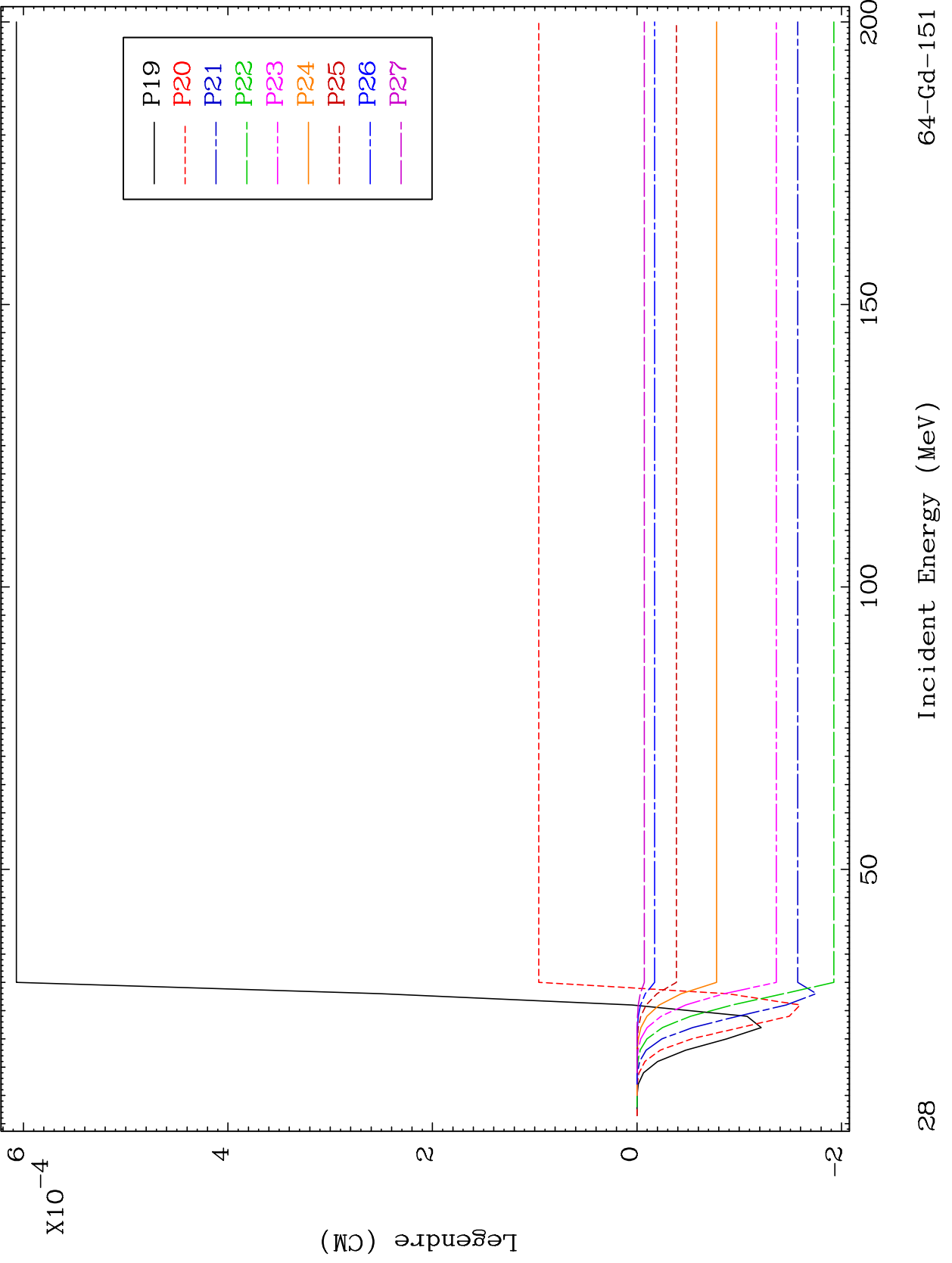
Incident Energy (MeV)

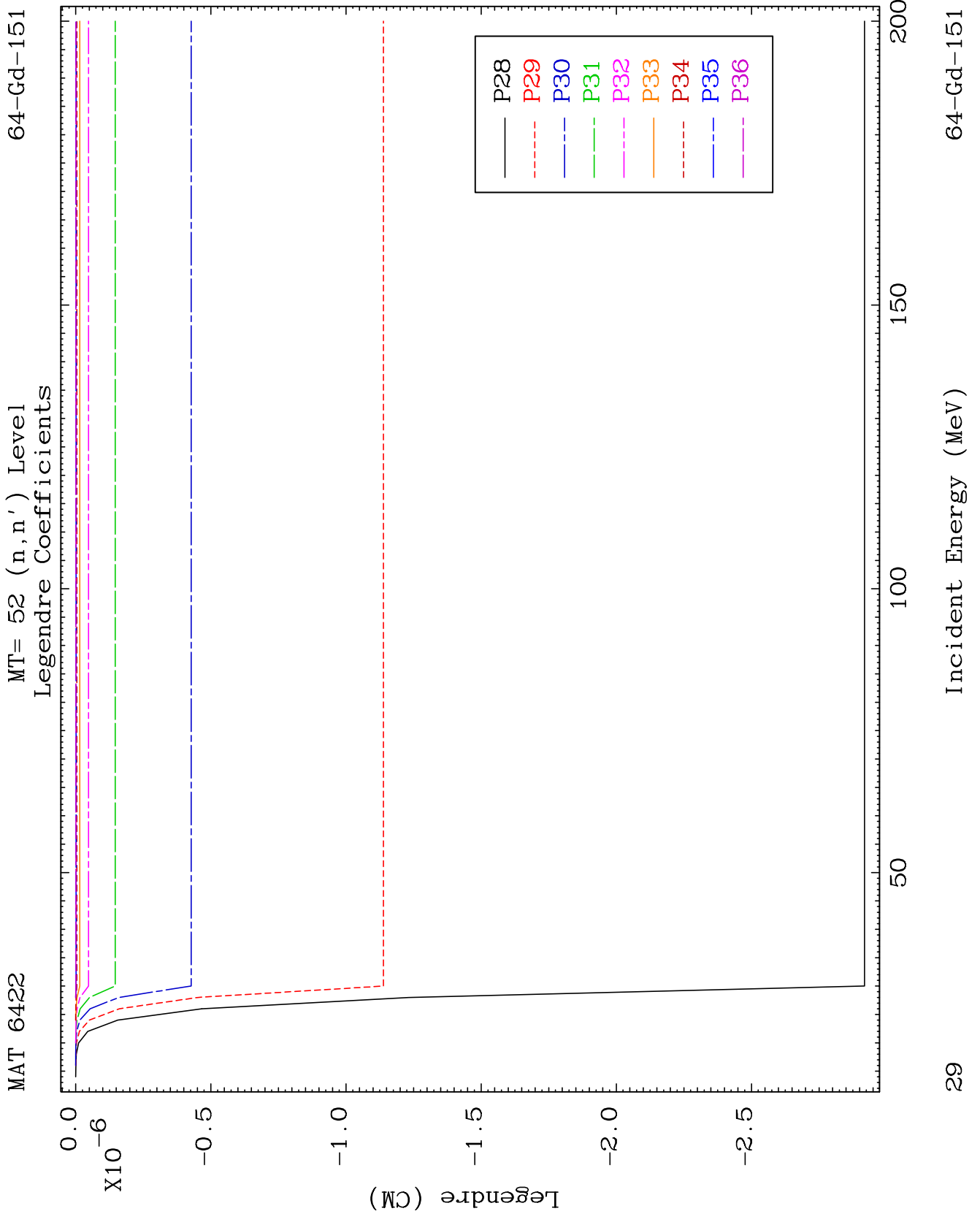
64-Gd-151

MAT 6422

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

64-Gd-151

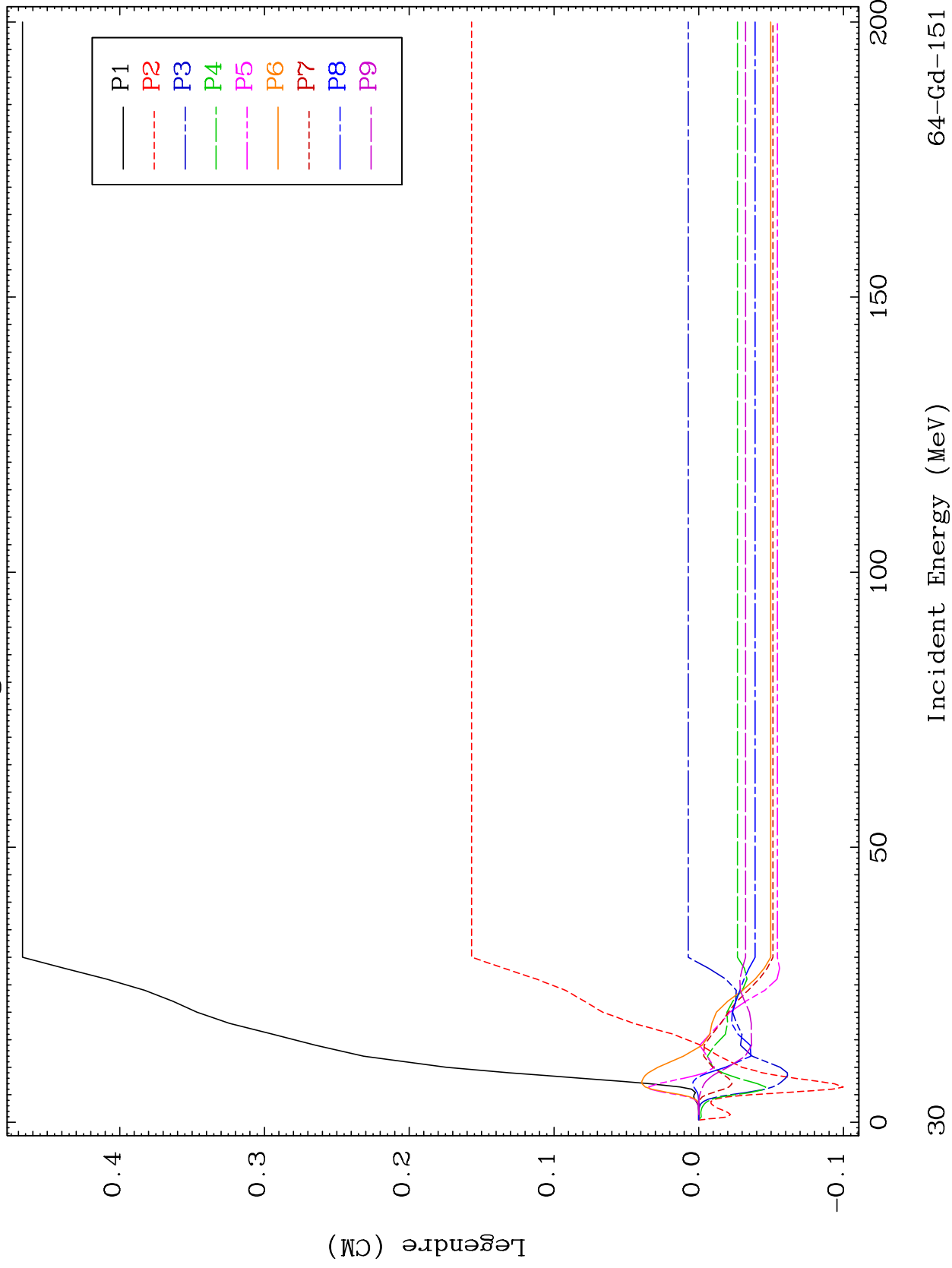




MAT 6422

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

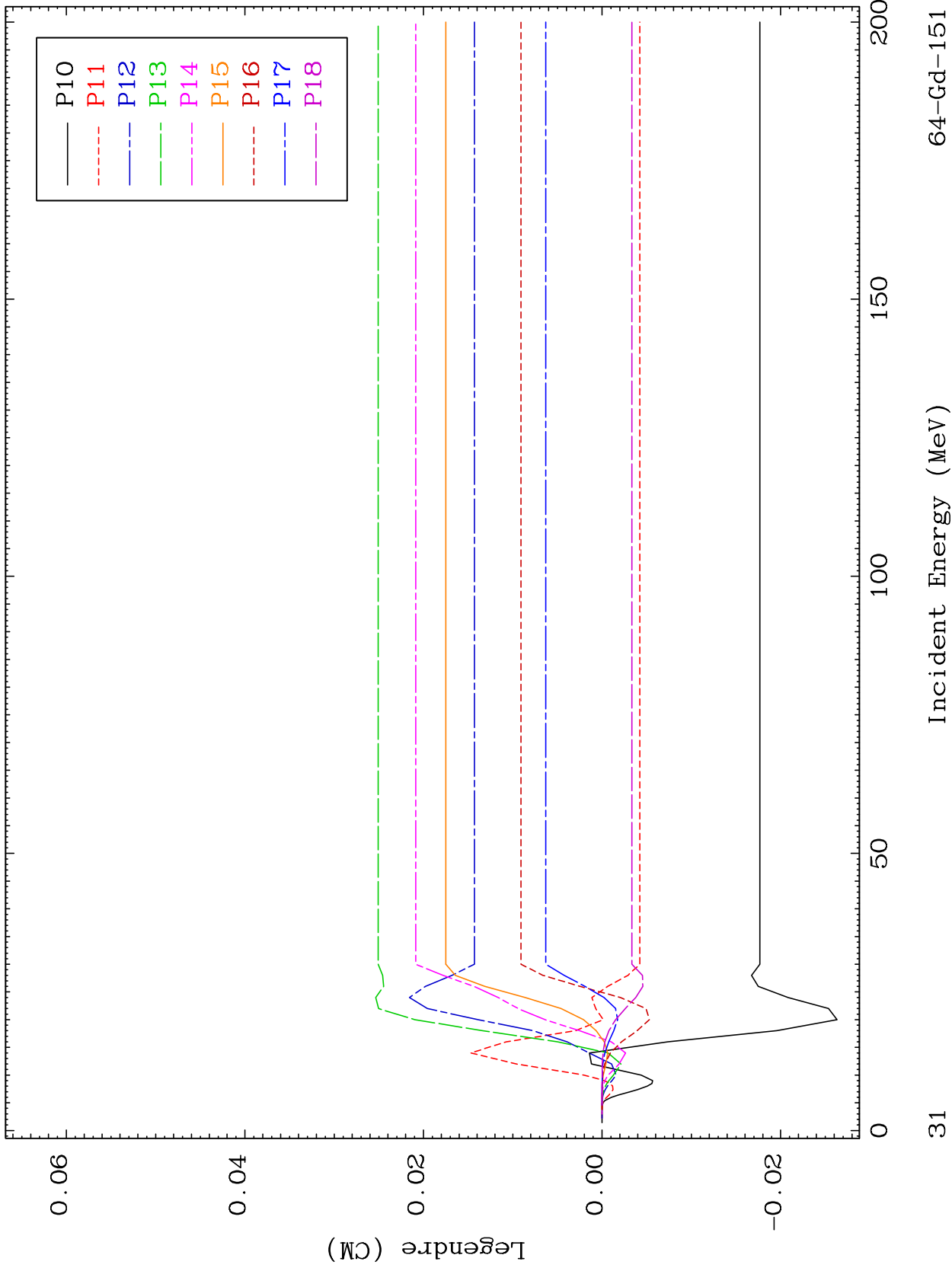
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MAT 6422

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

64-Gd-151



31

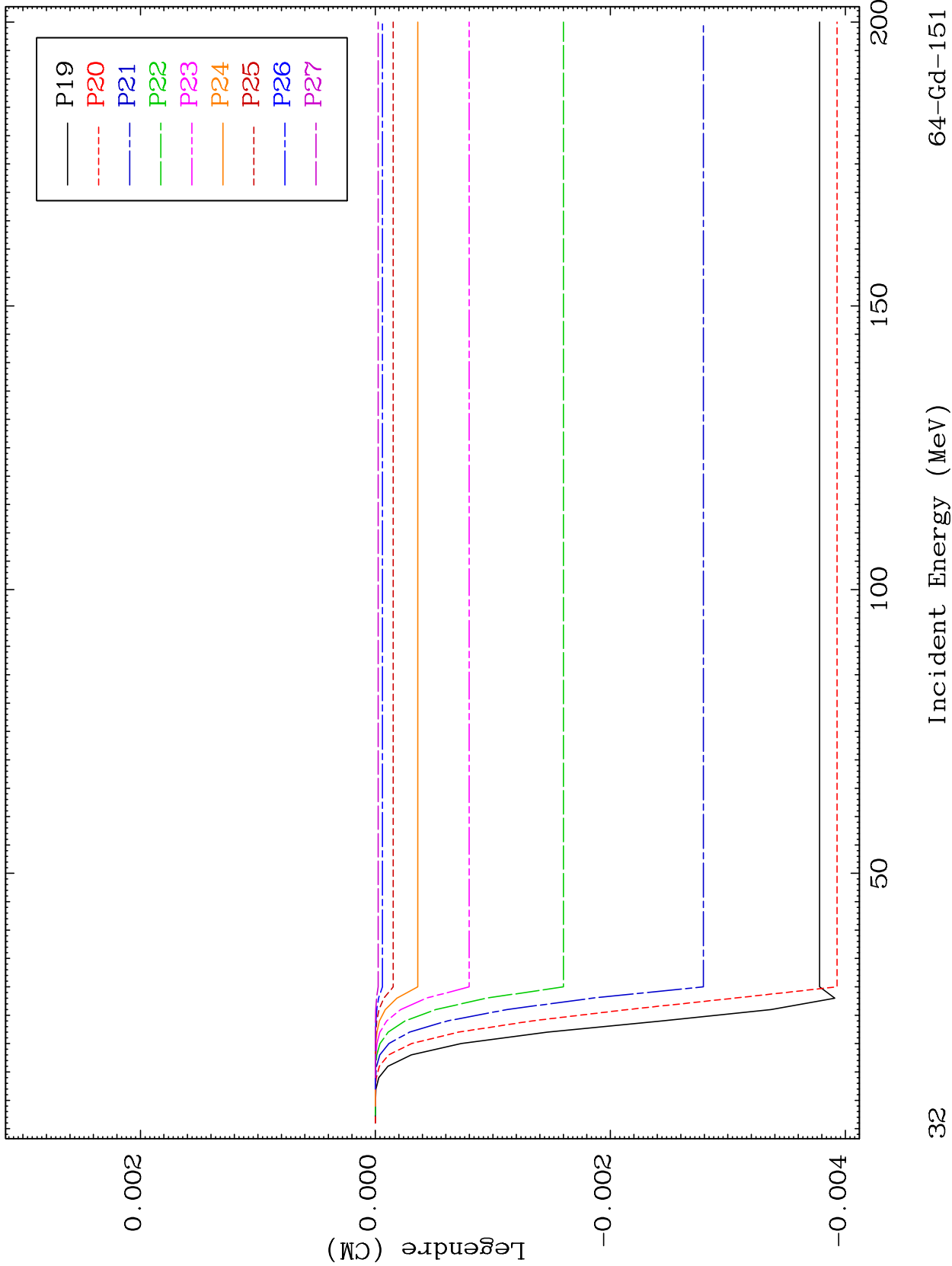
Incident Energy (MeV)

64-Gd-151

MAT 6422

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

64-Gd-151



32

Incident Energy (MeV)

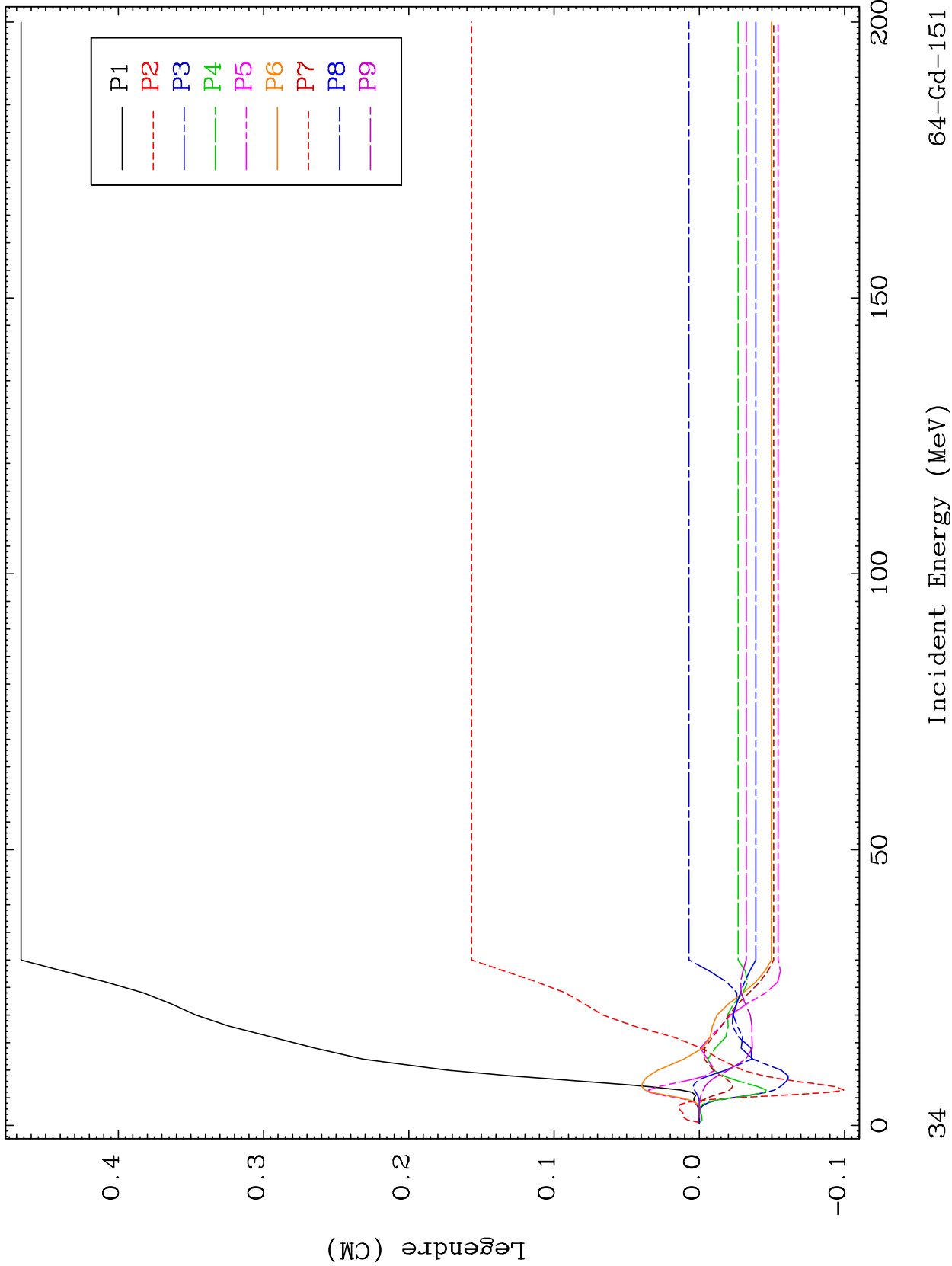
64-Gd-151



MAT 6422

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

64-Gd-151



64-Gd-151

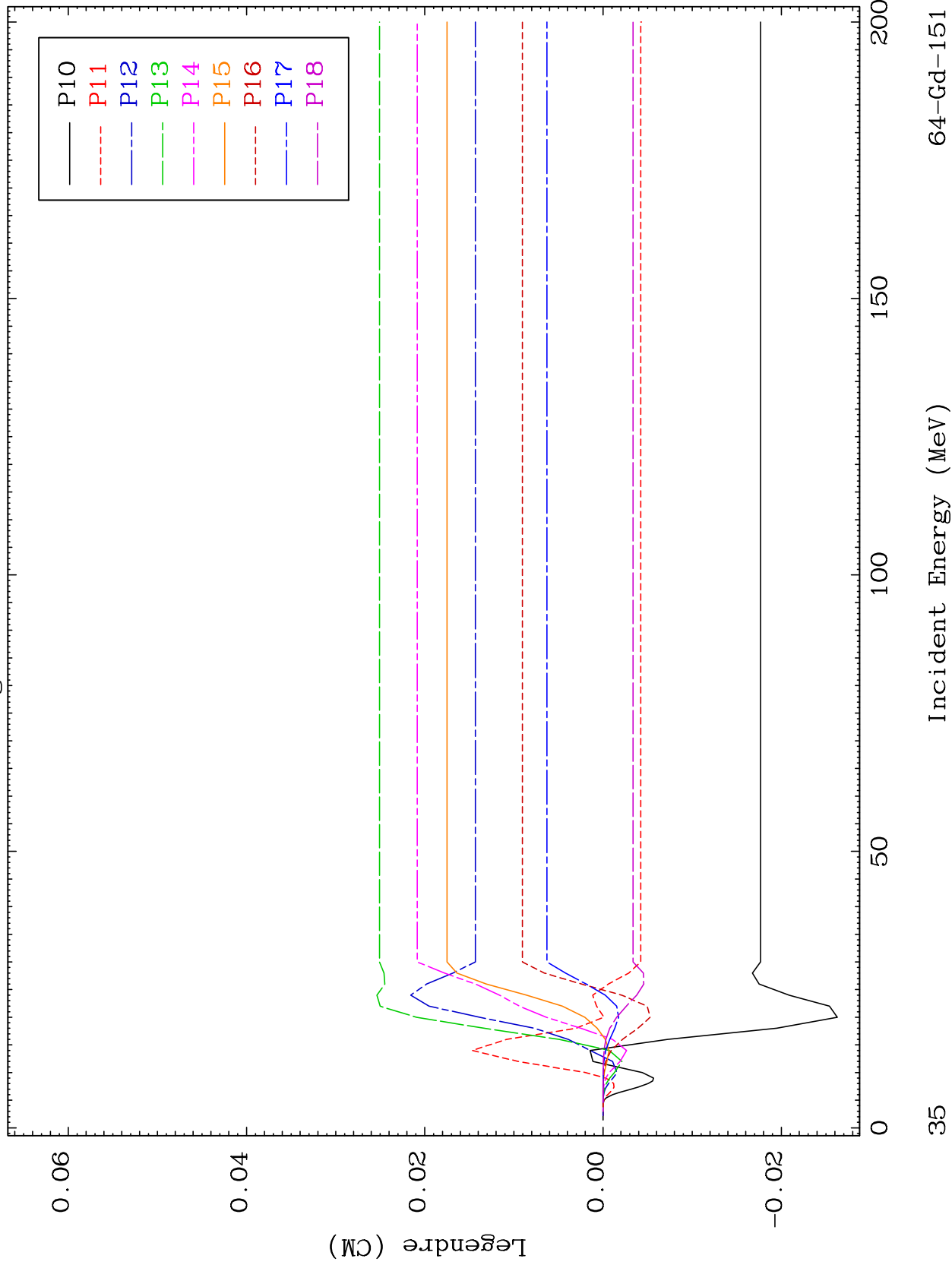
Incident Energy (MeV)

34

MAT 6422

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

64-Gd-151



64-Gd-151

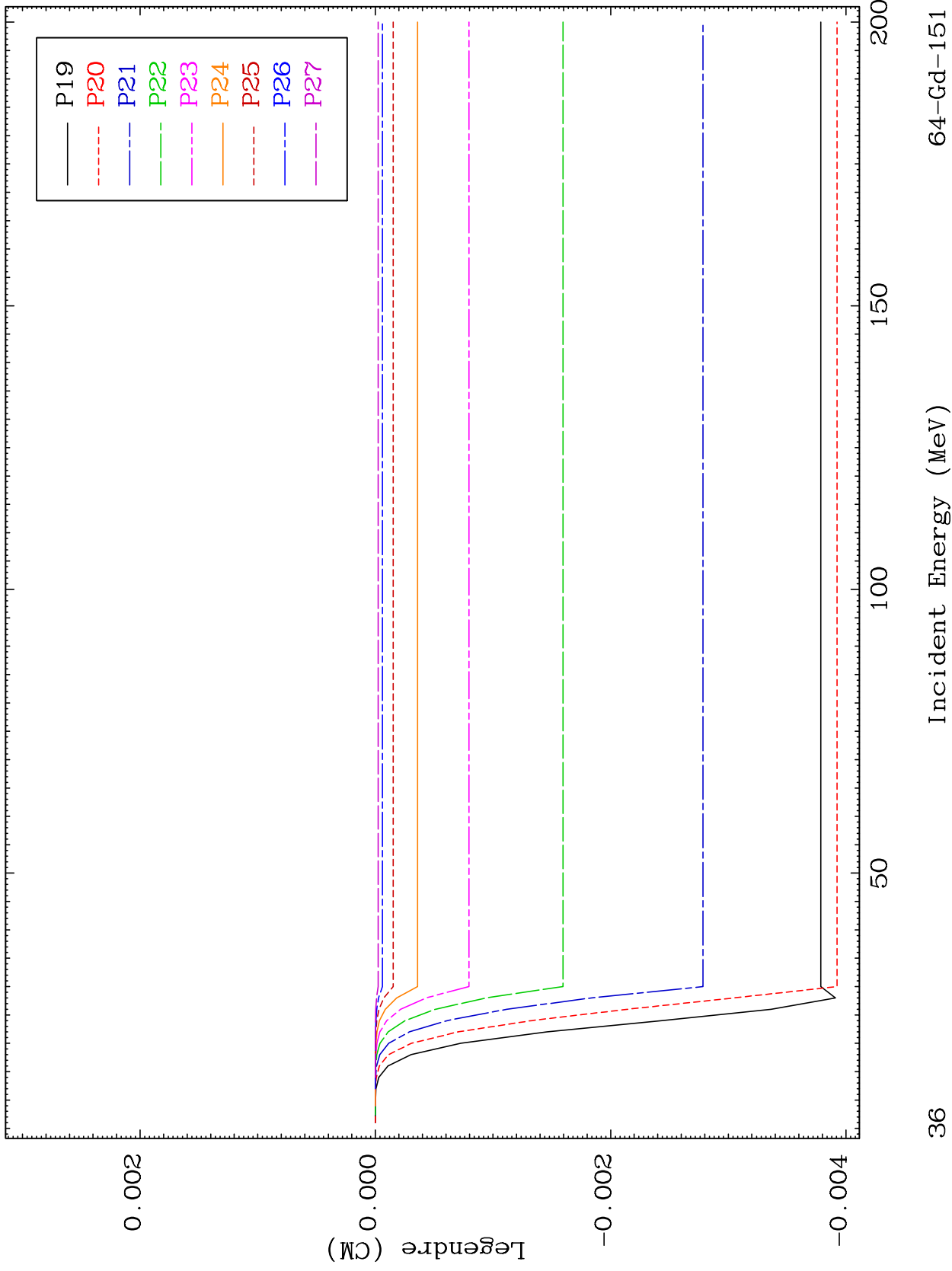
Incident Energy (MeV)

35

MAT 6422

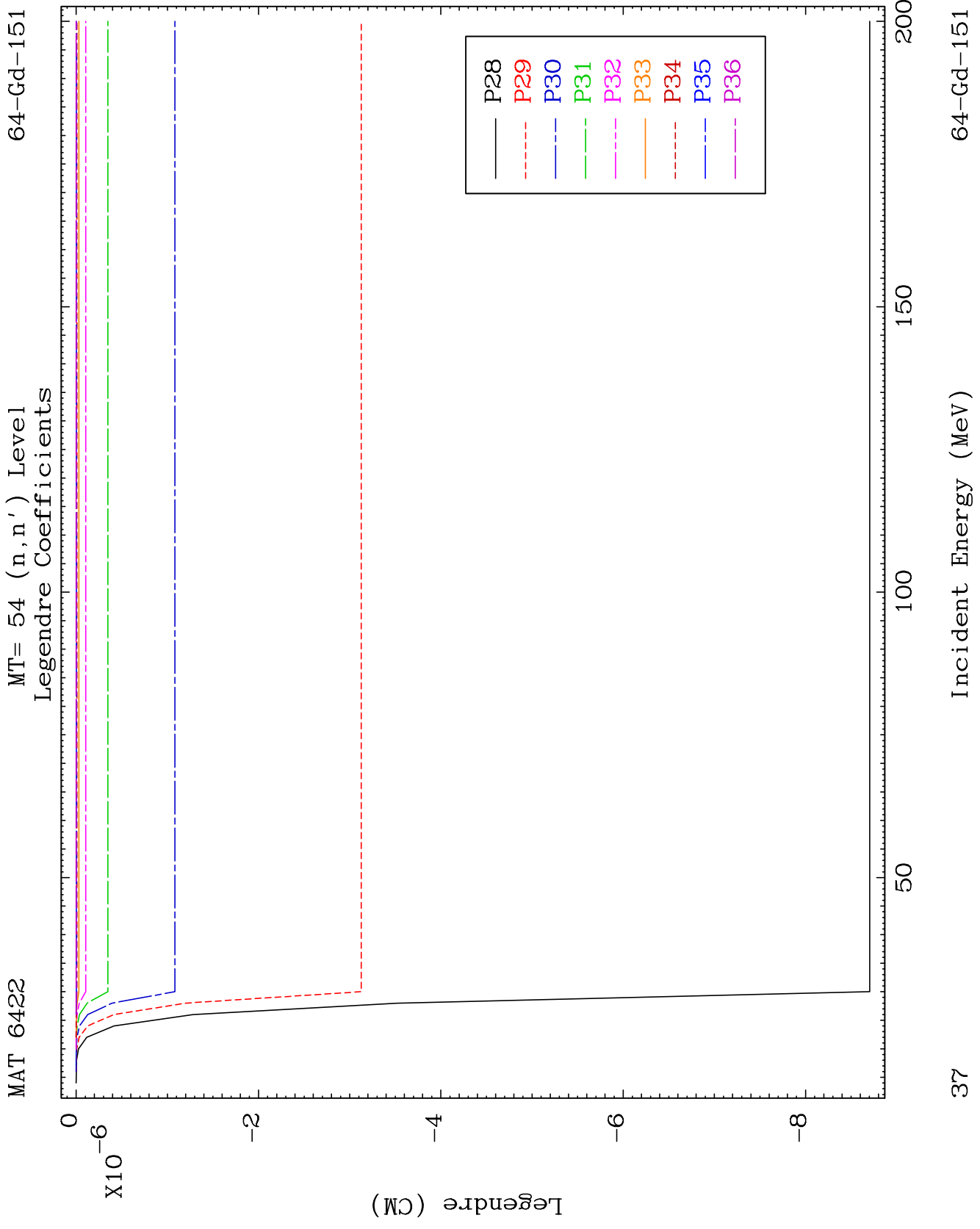
MT= 54 (n,n') Level  
Legendre Coefficients

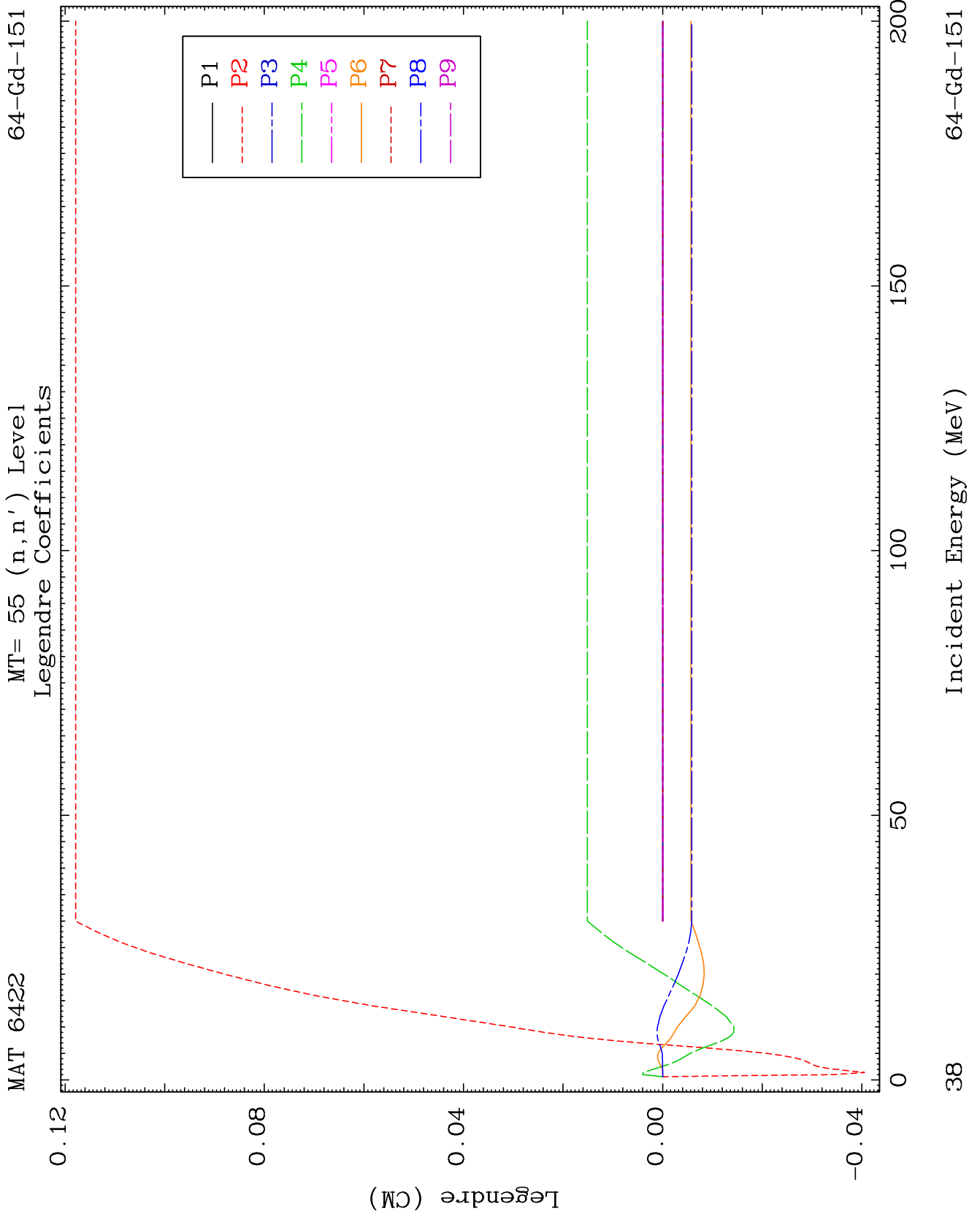
64-Gd-151



36

64-Gd-151

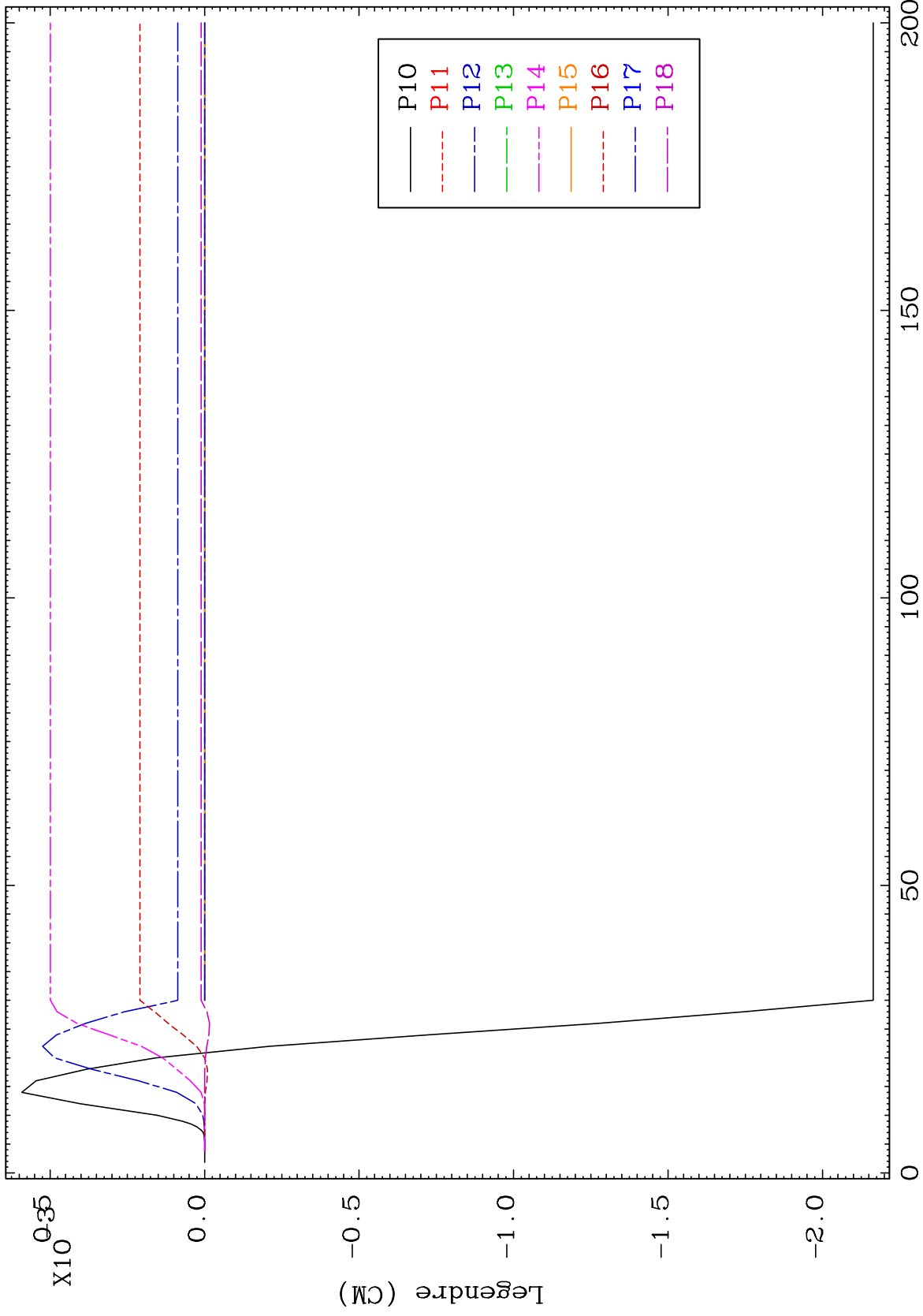




MAT 6422

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

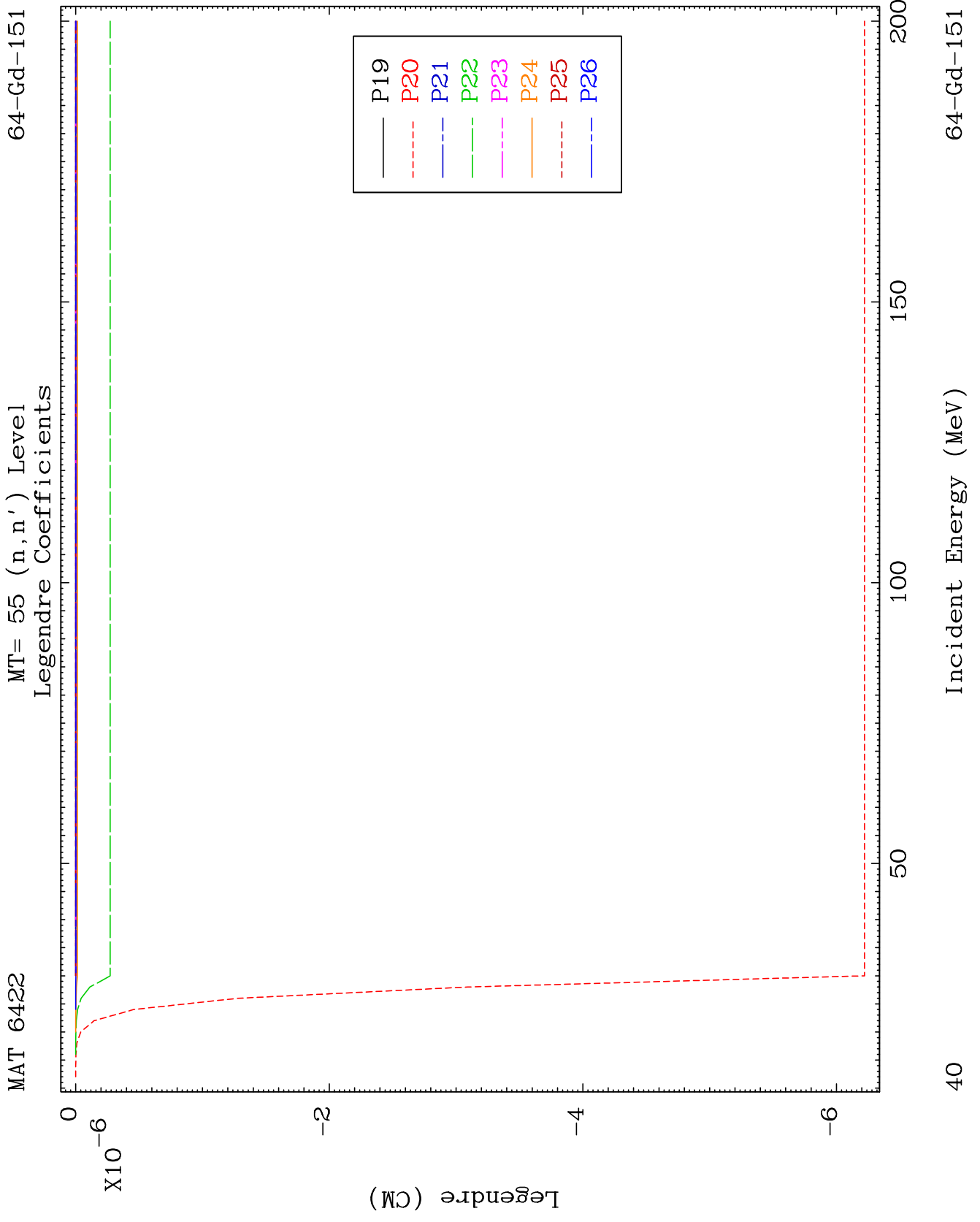
64-Gd-151



39

Incident Energy (MeV)

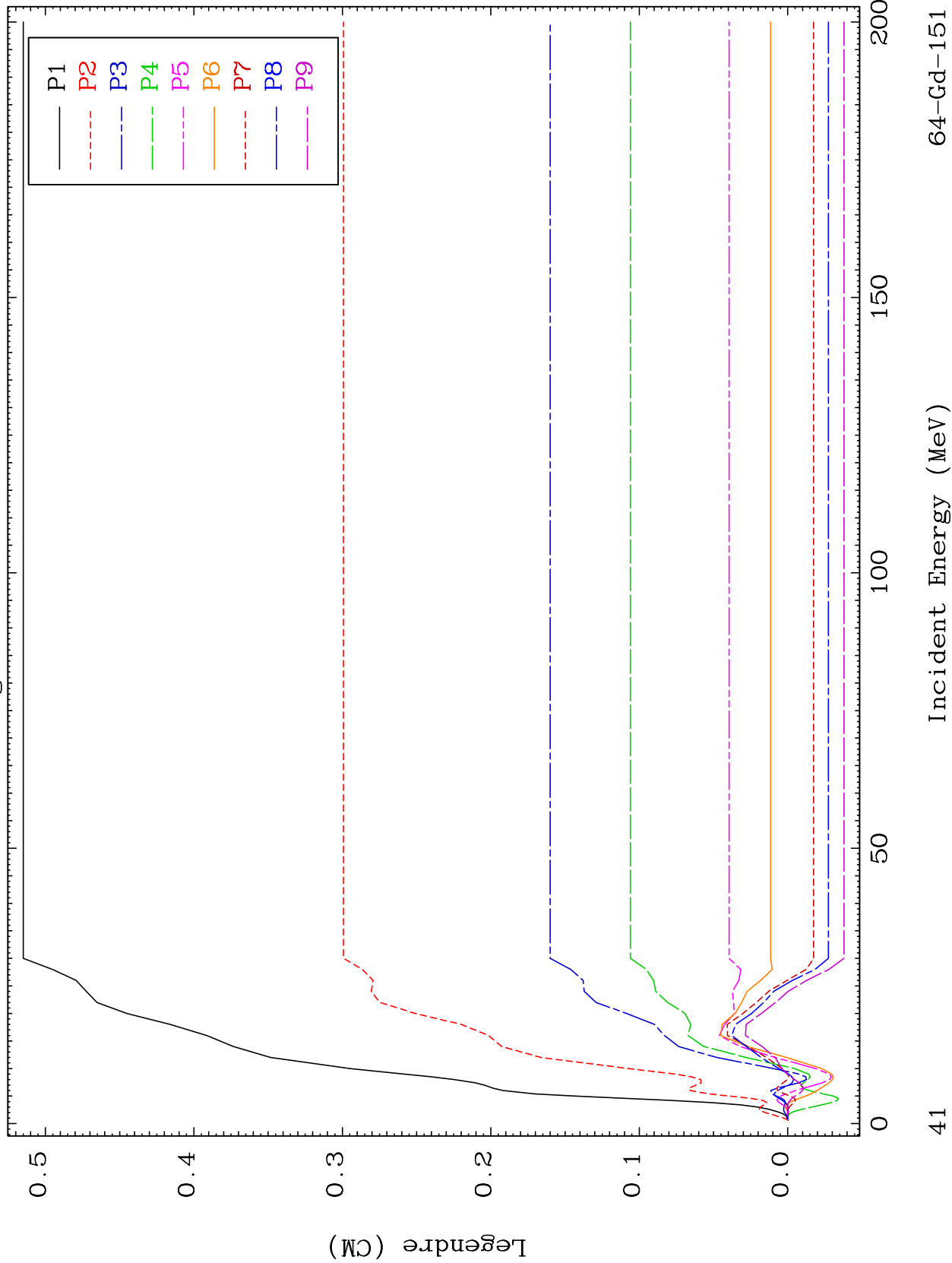
64-Gd-151



MAT 6422

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

64-Gd-151



64-Gd-151

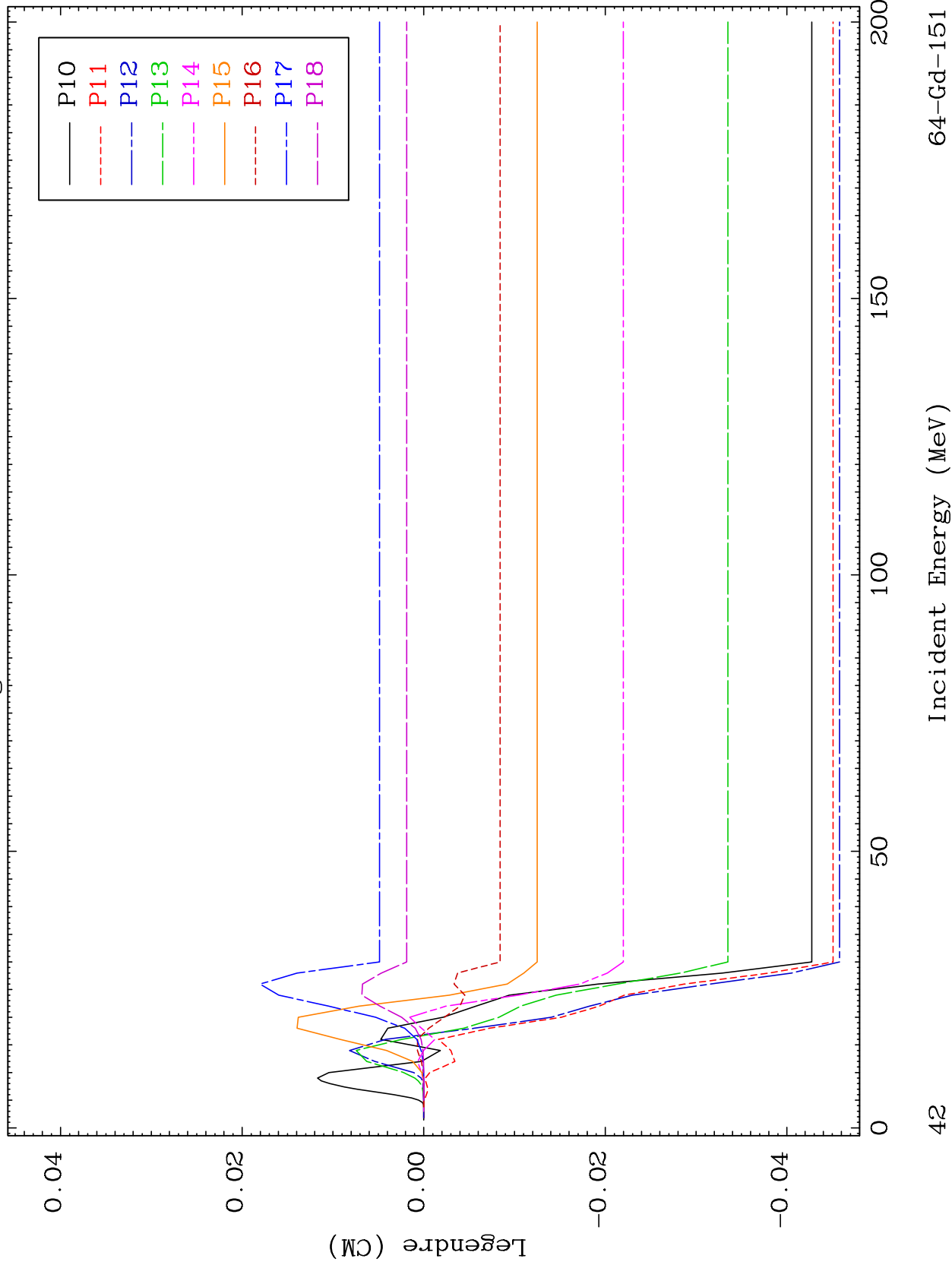
Incident Energy (MeV)

41

MAT 6422

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

64-Gd-151



64-Gd-151

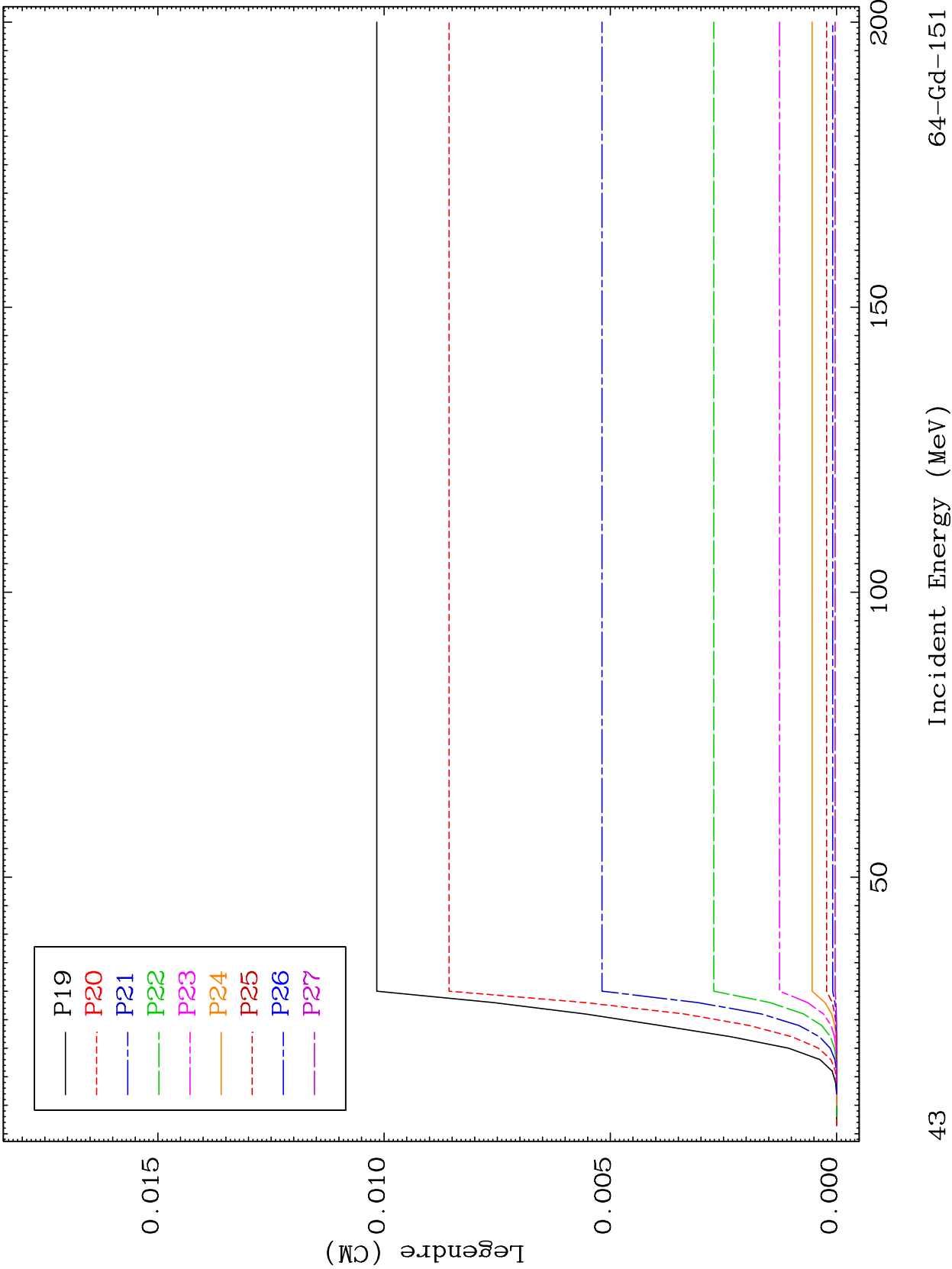
Incident Energy (MeV)

42

MAT 6422

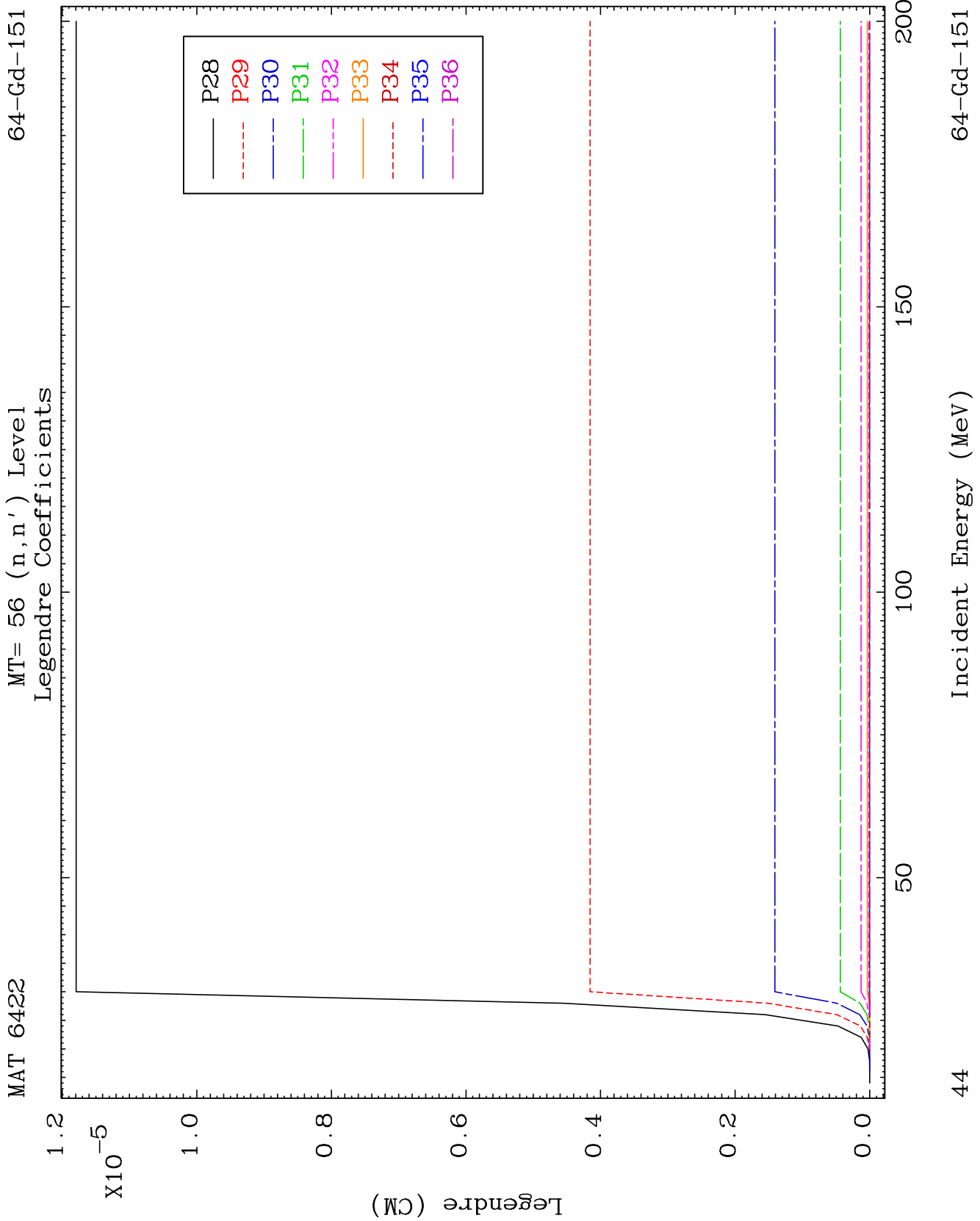
MT= 56 (n,n') Level  
Legendre Coefficients

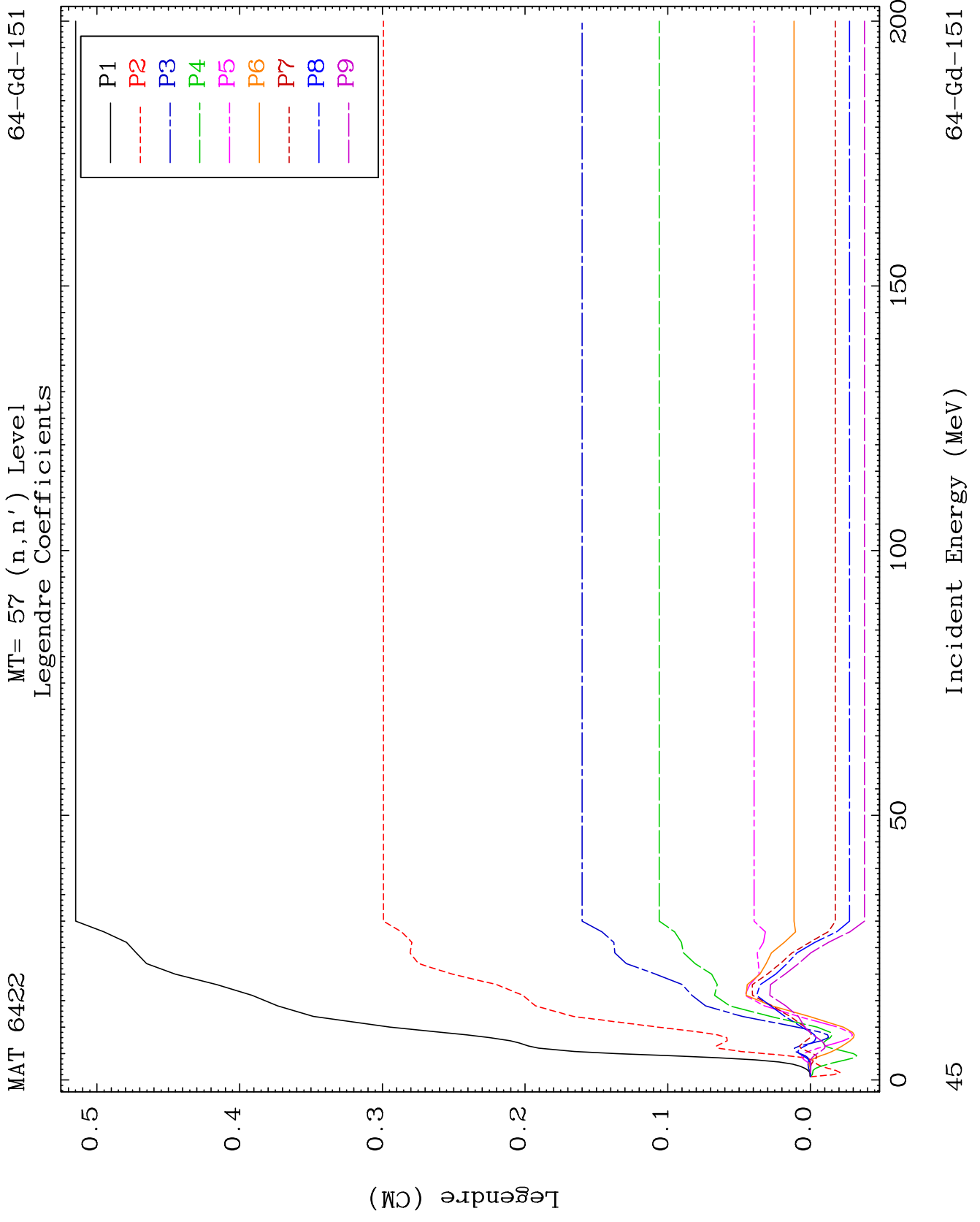
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43

64-Gd-151

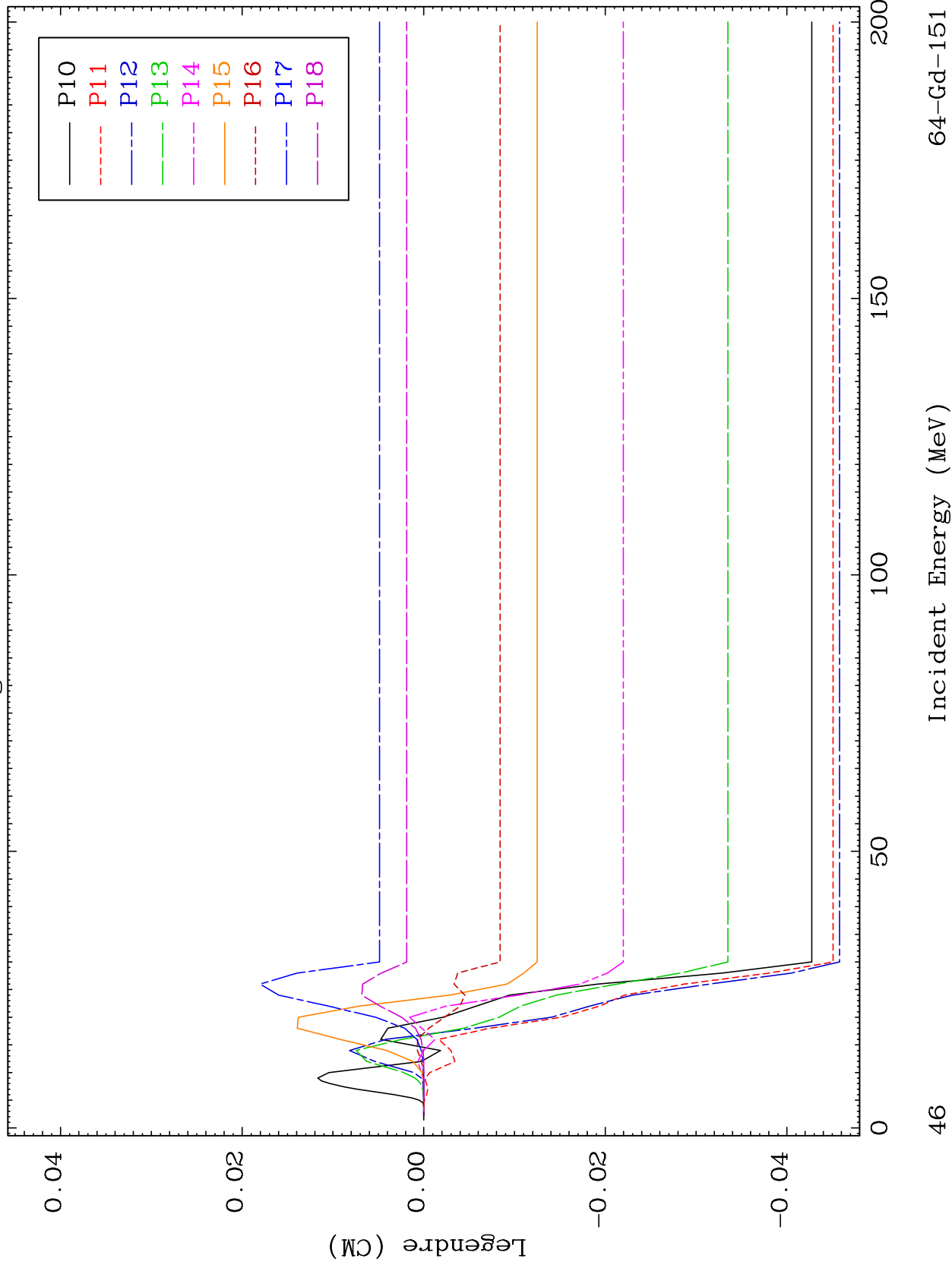




MAT 6422

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

64-Gd-151



46

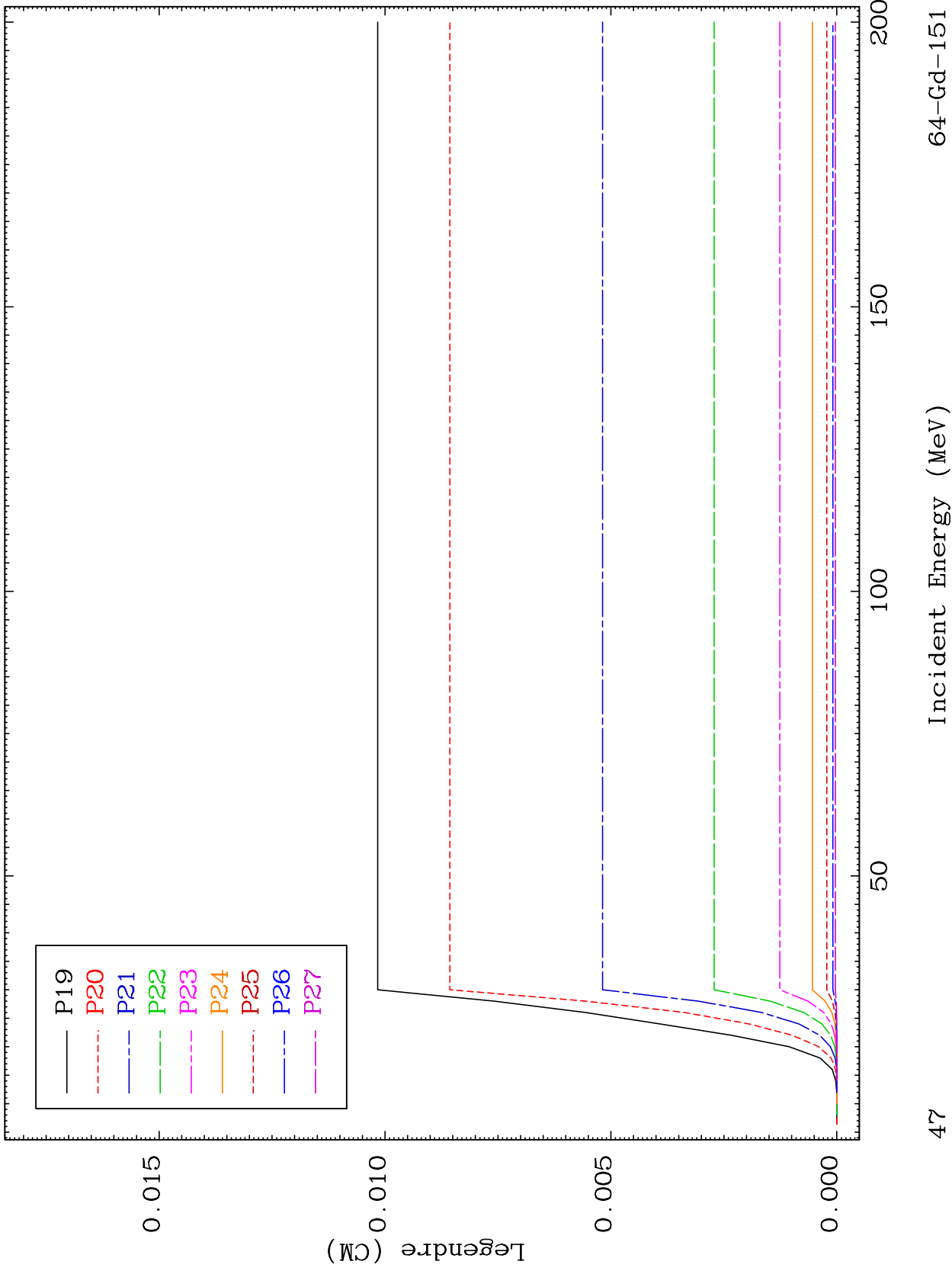
Incident Energy (MeV)

64-Gd-151

MAT 6422

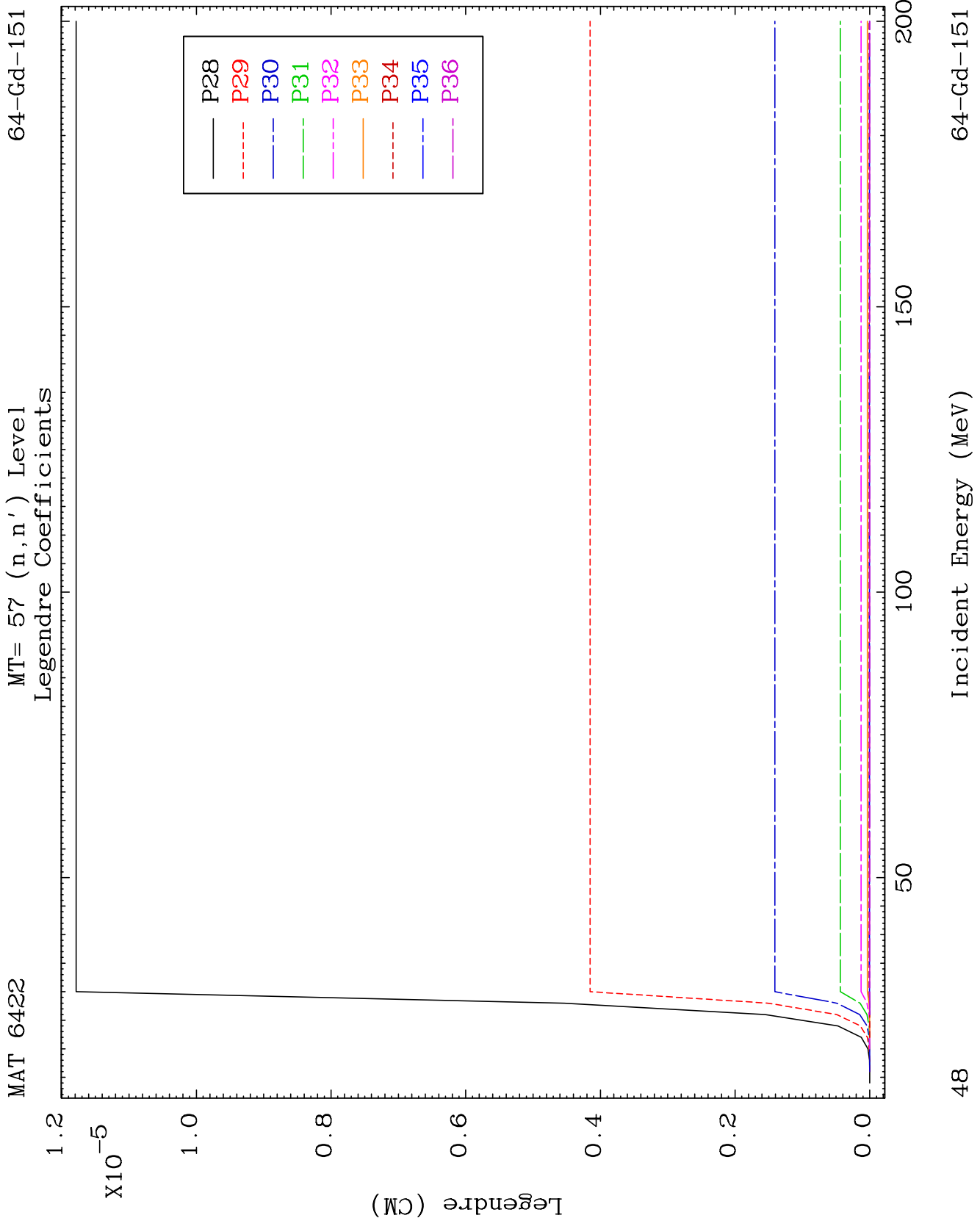
MT= 57 (n,n') Level  
Legendre Coefficients

64-Gd-151



47

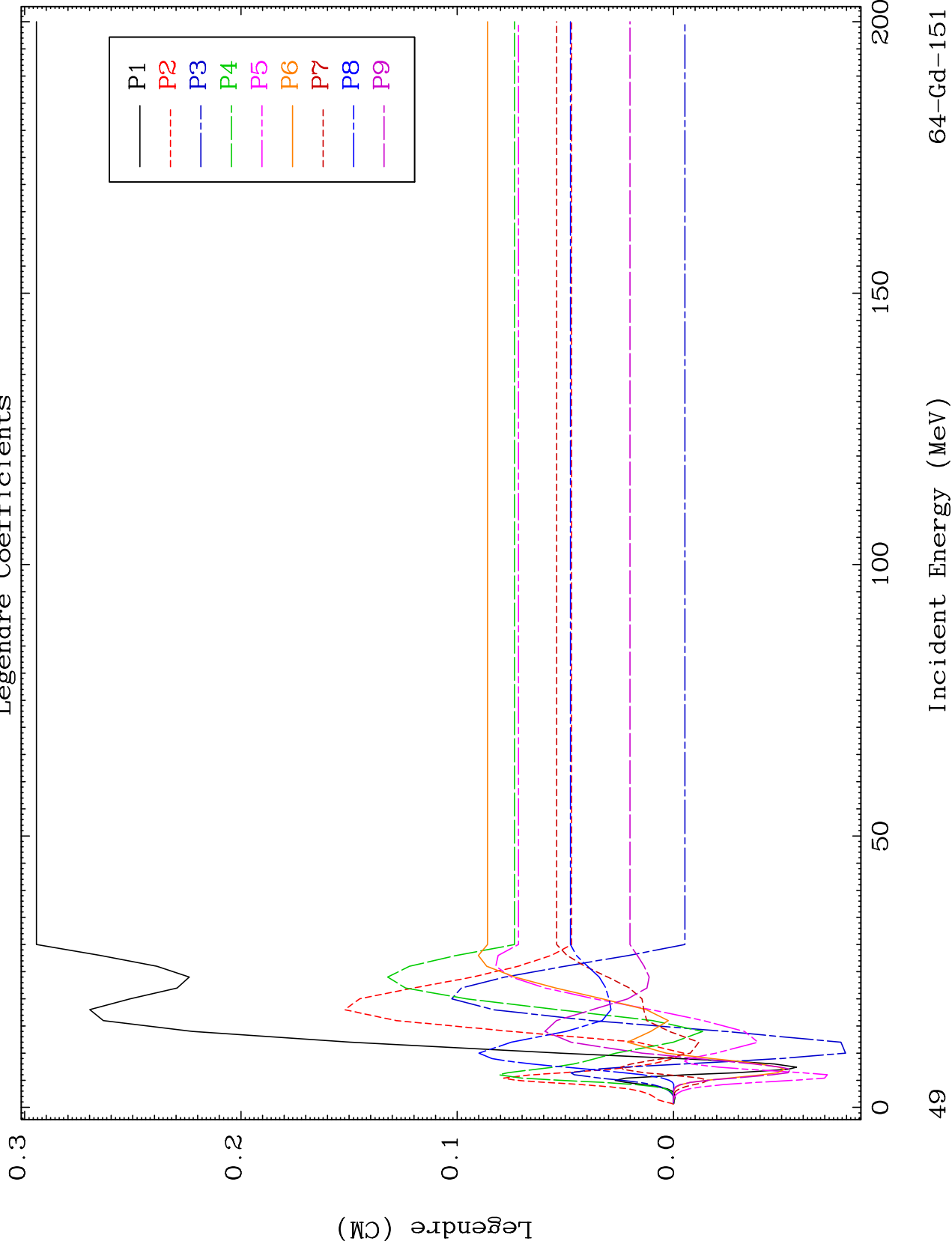
64-Gd-151



MAT 6422

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

64-Gd-151

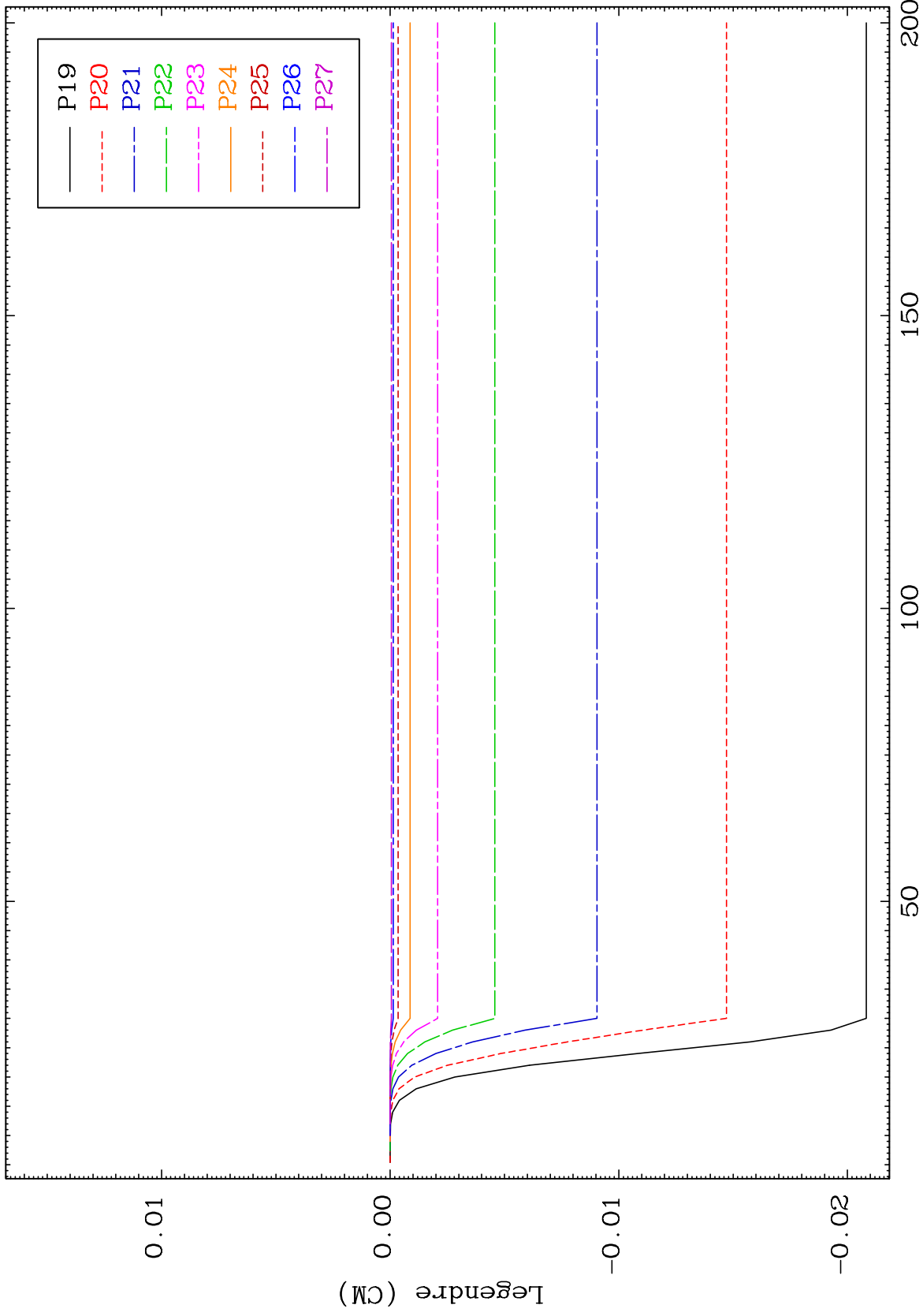


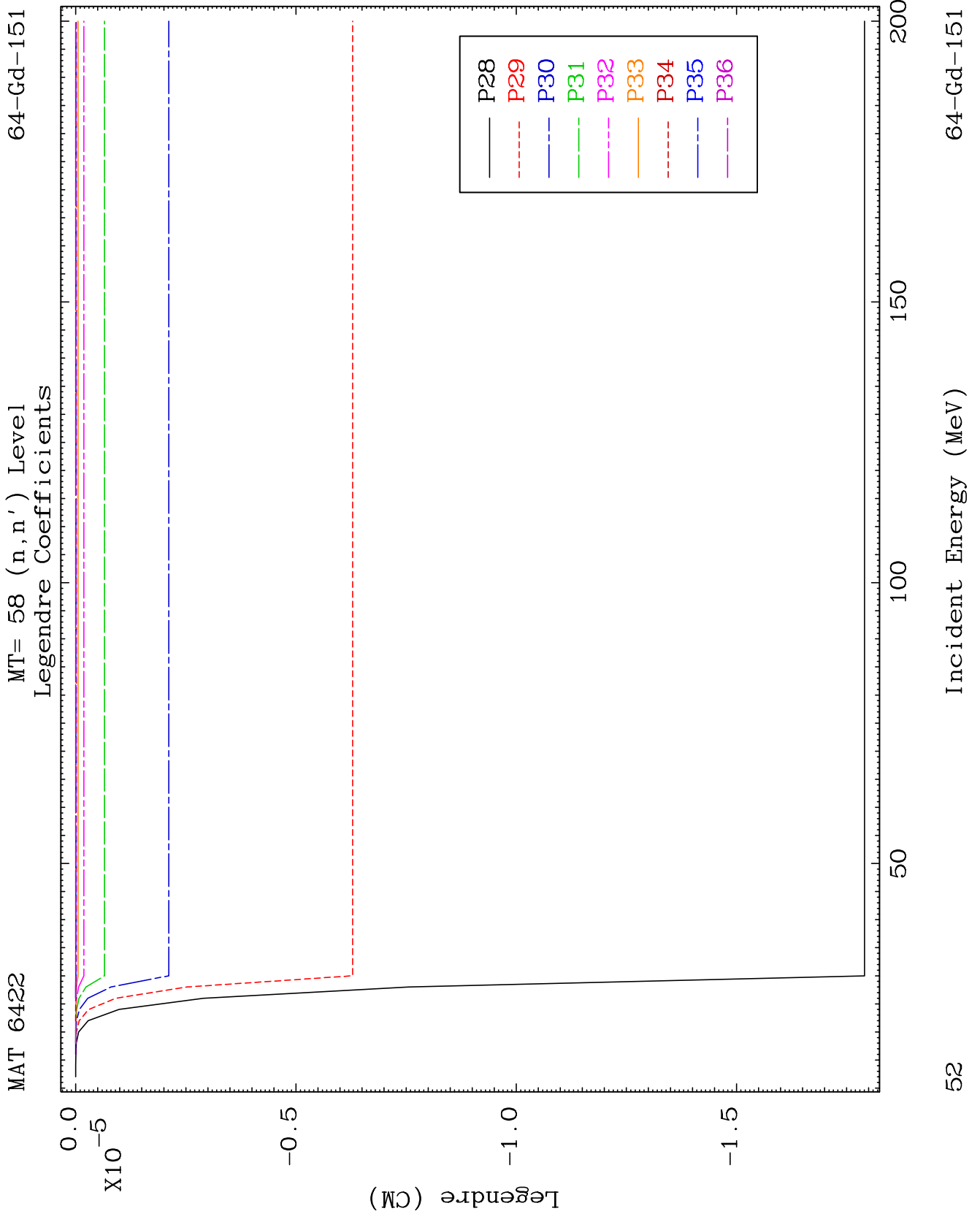
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Incident Energy (MeV)

64-Gd-151



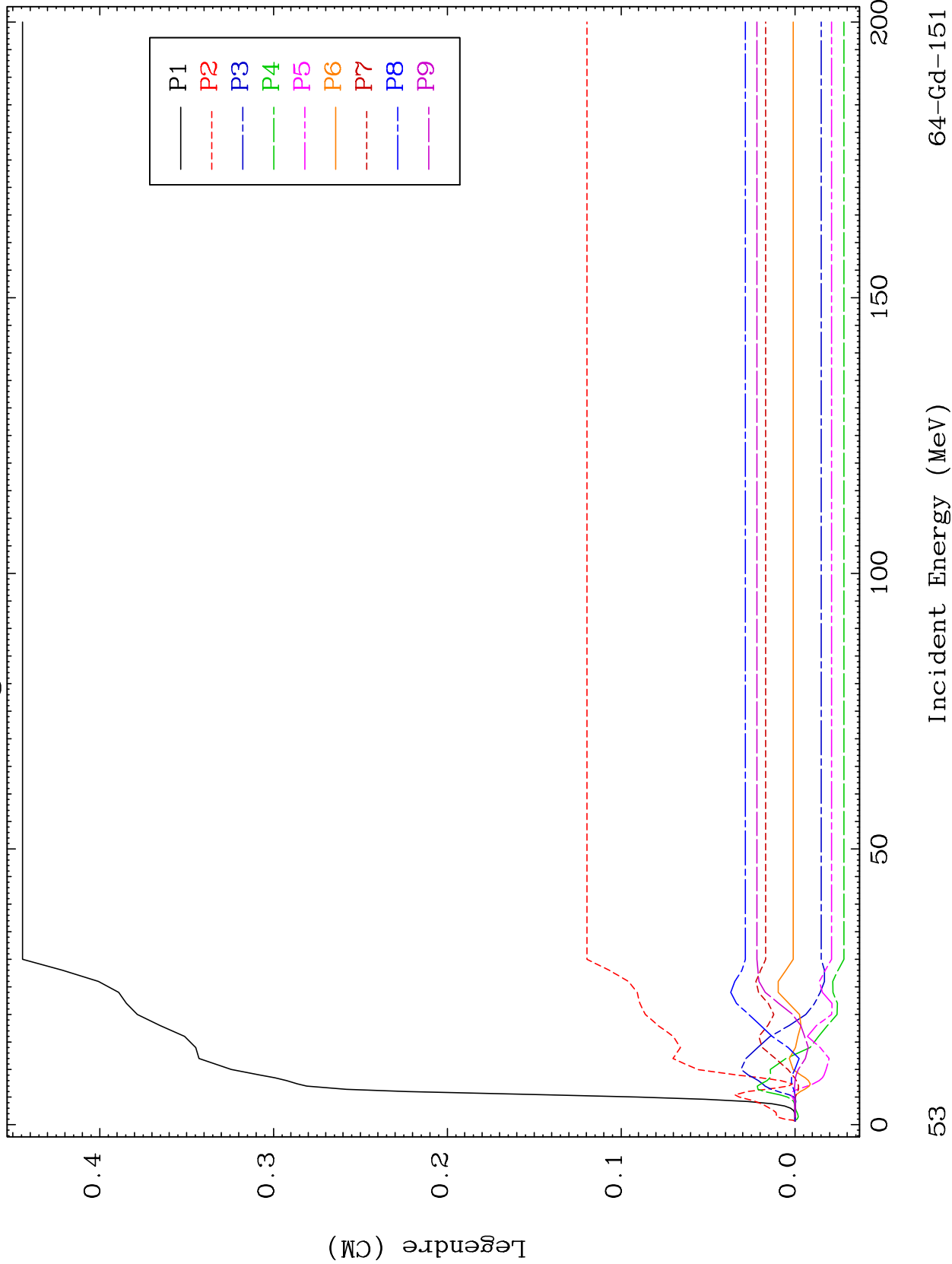




MAT 6422

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

64-Gd-151



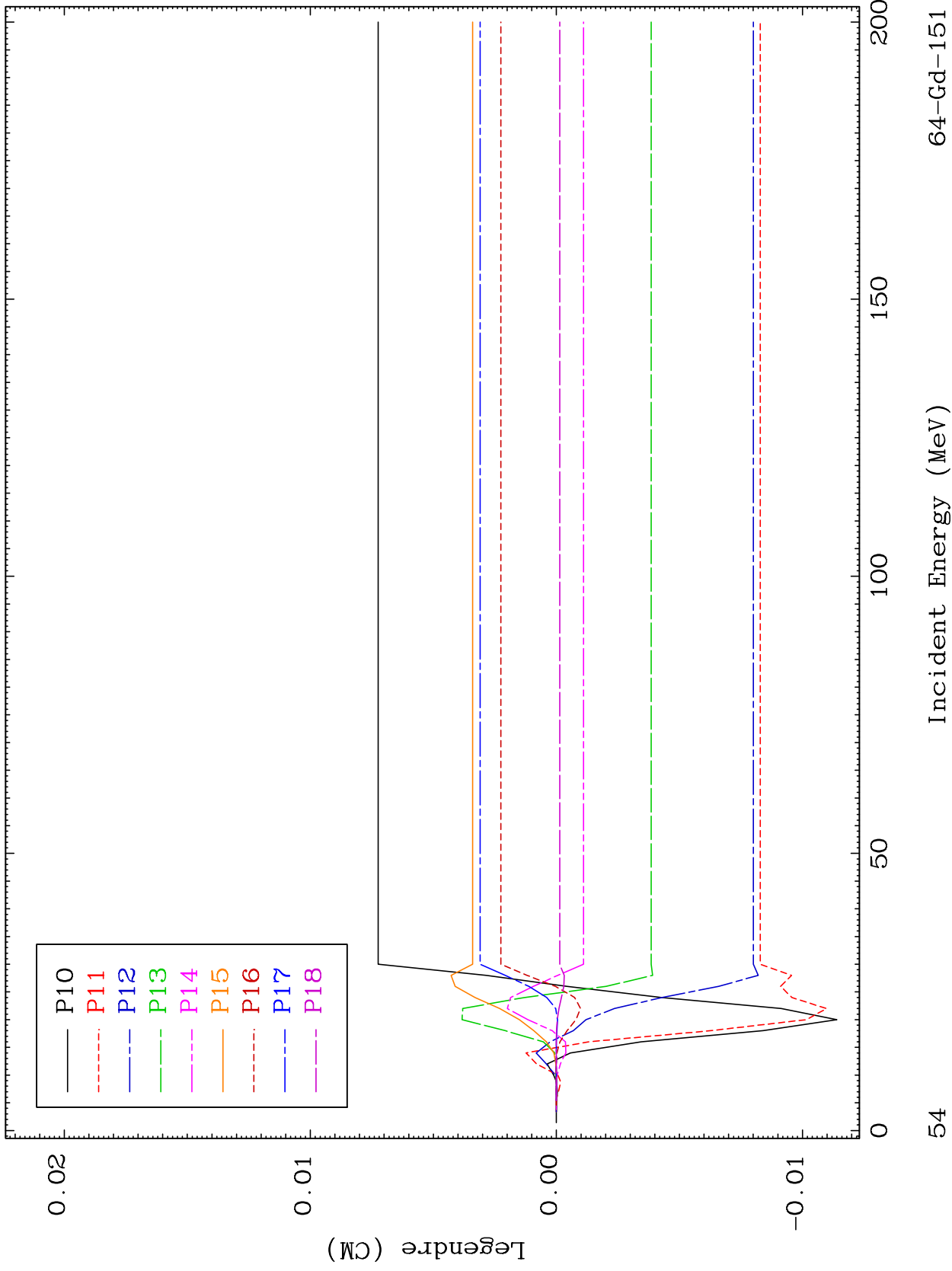
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64-Gd-151

MAT 6422

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

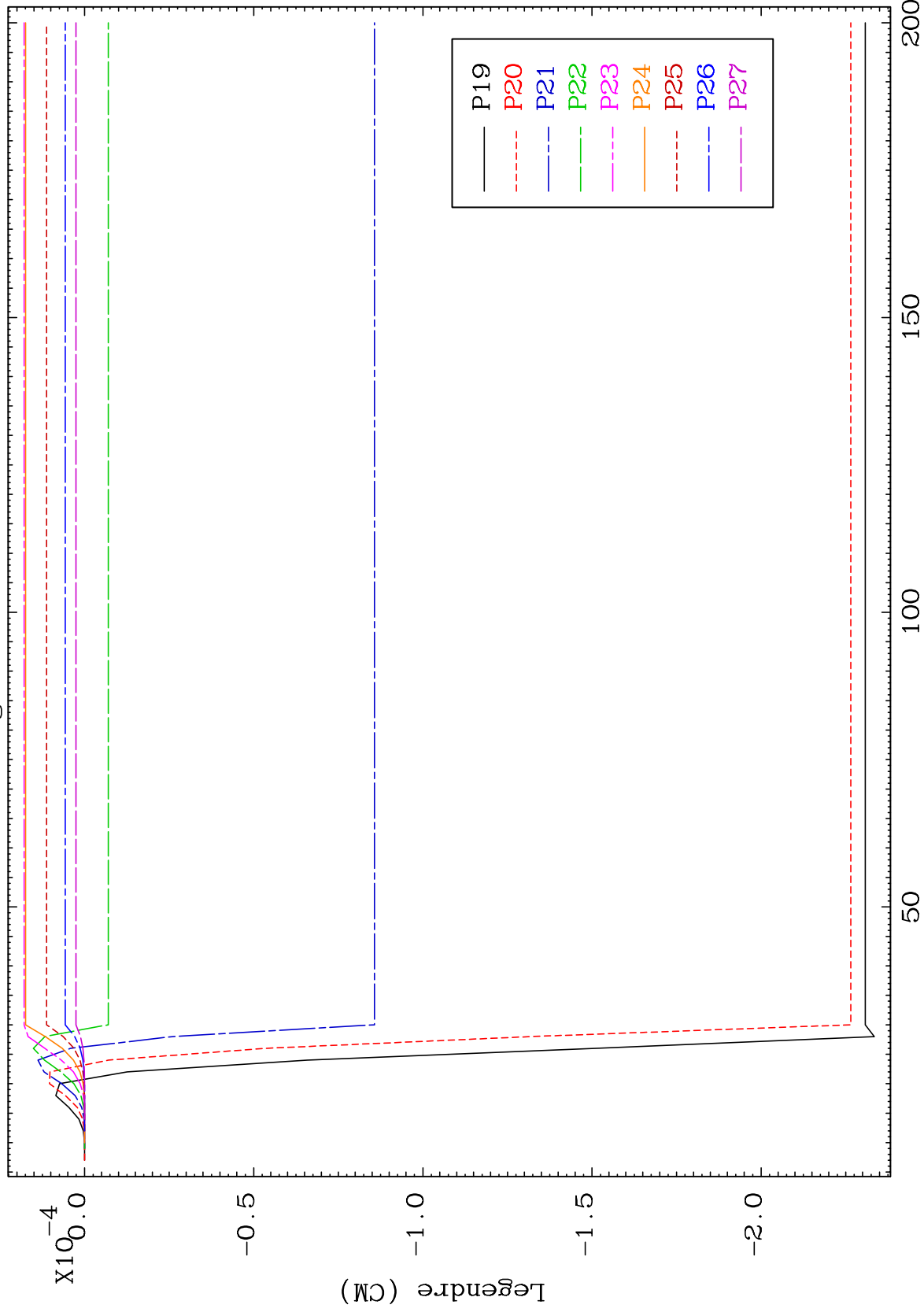
64-Gd-151



64-Gd-151

Incident Energy (MeV)

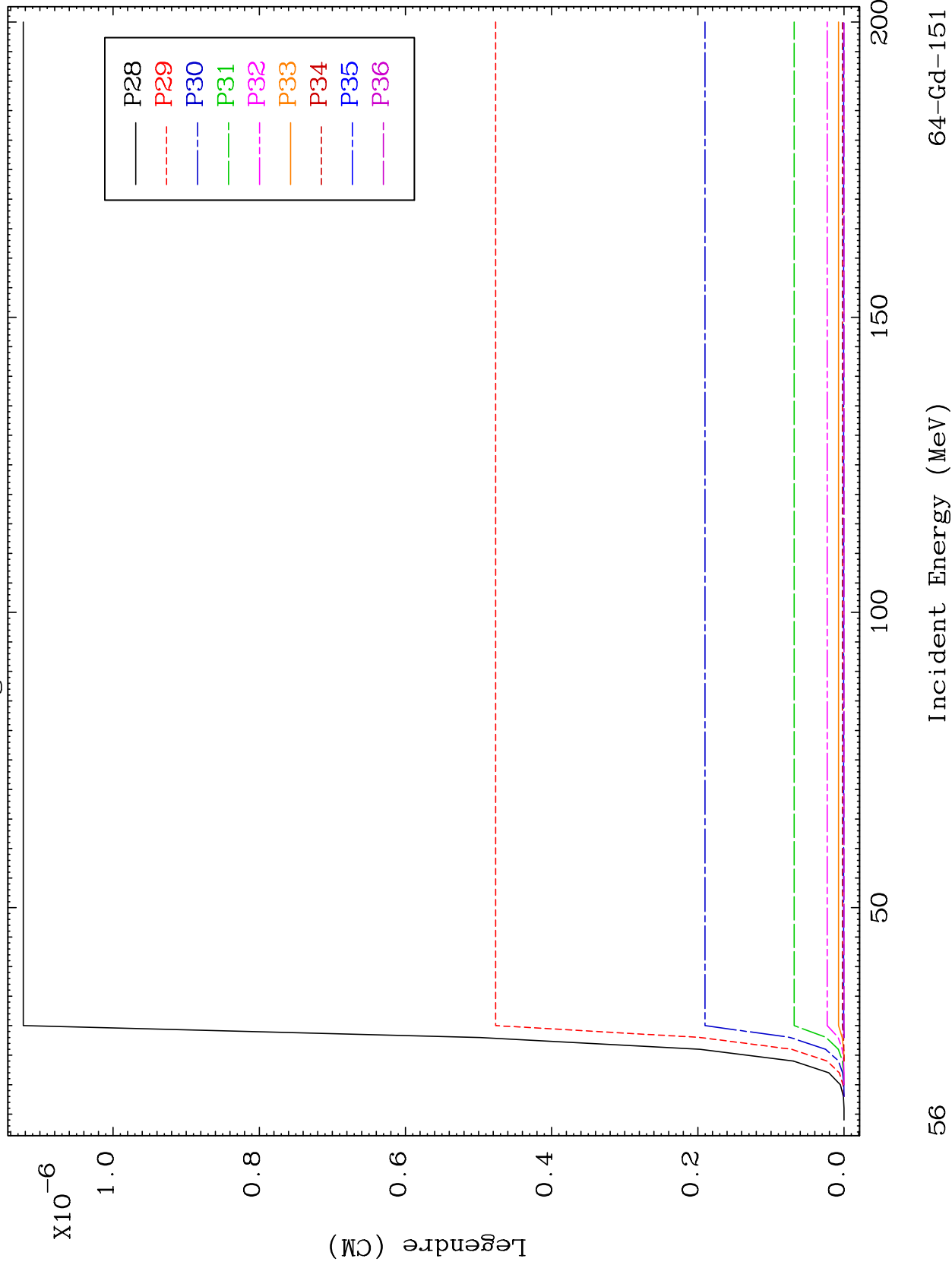
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MAT 6422

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

64-Gd-151



56

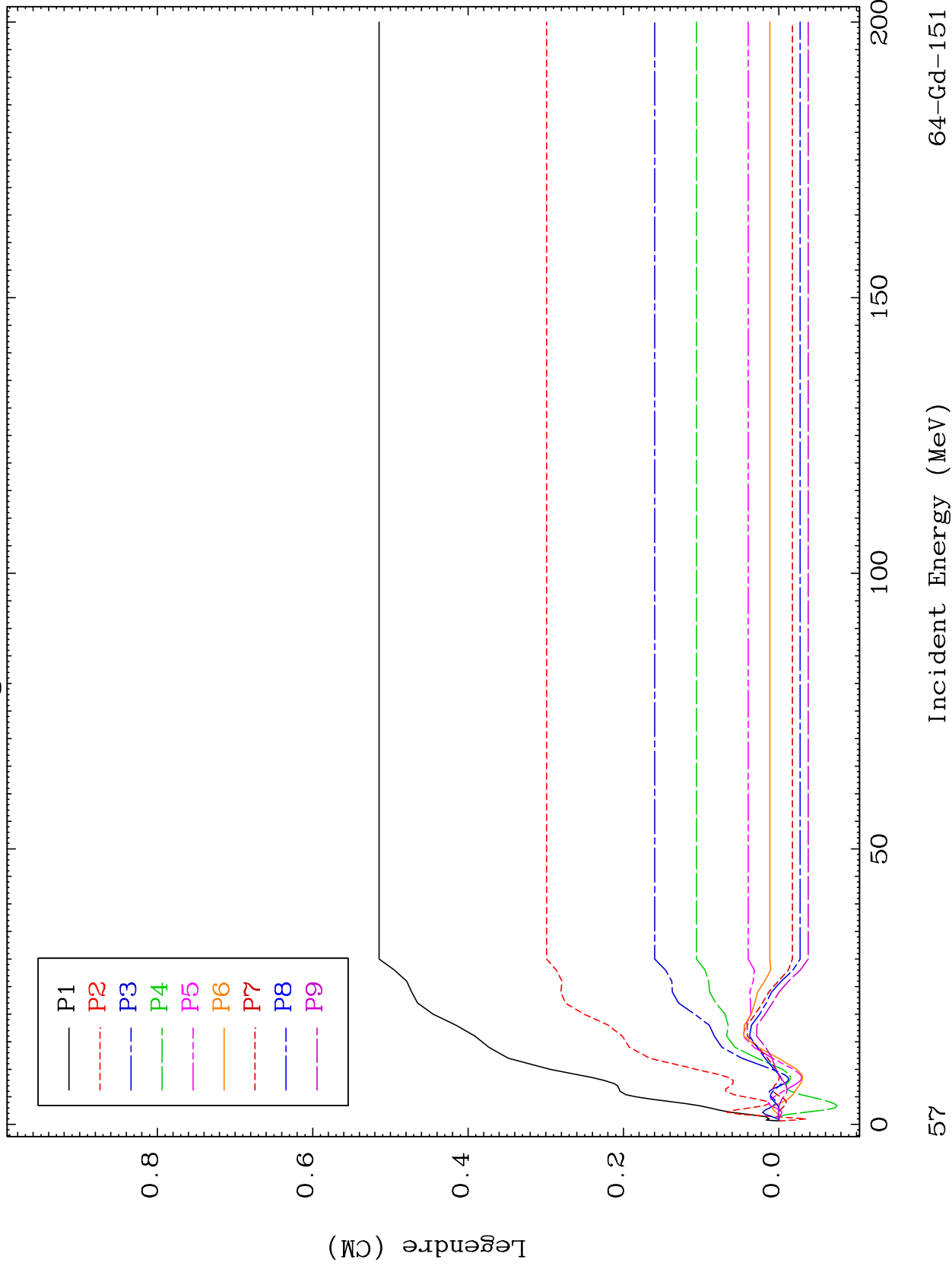
Incident Energy (MeV)

64-Gd-151

MAT 6422

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

64-Gd-151



57

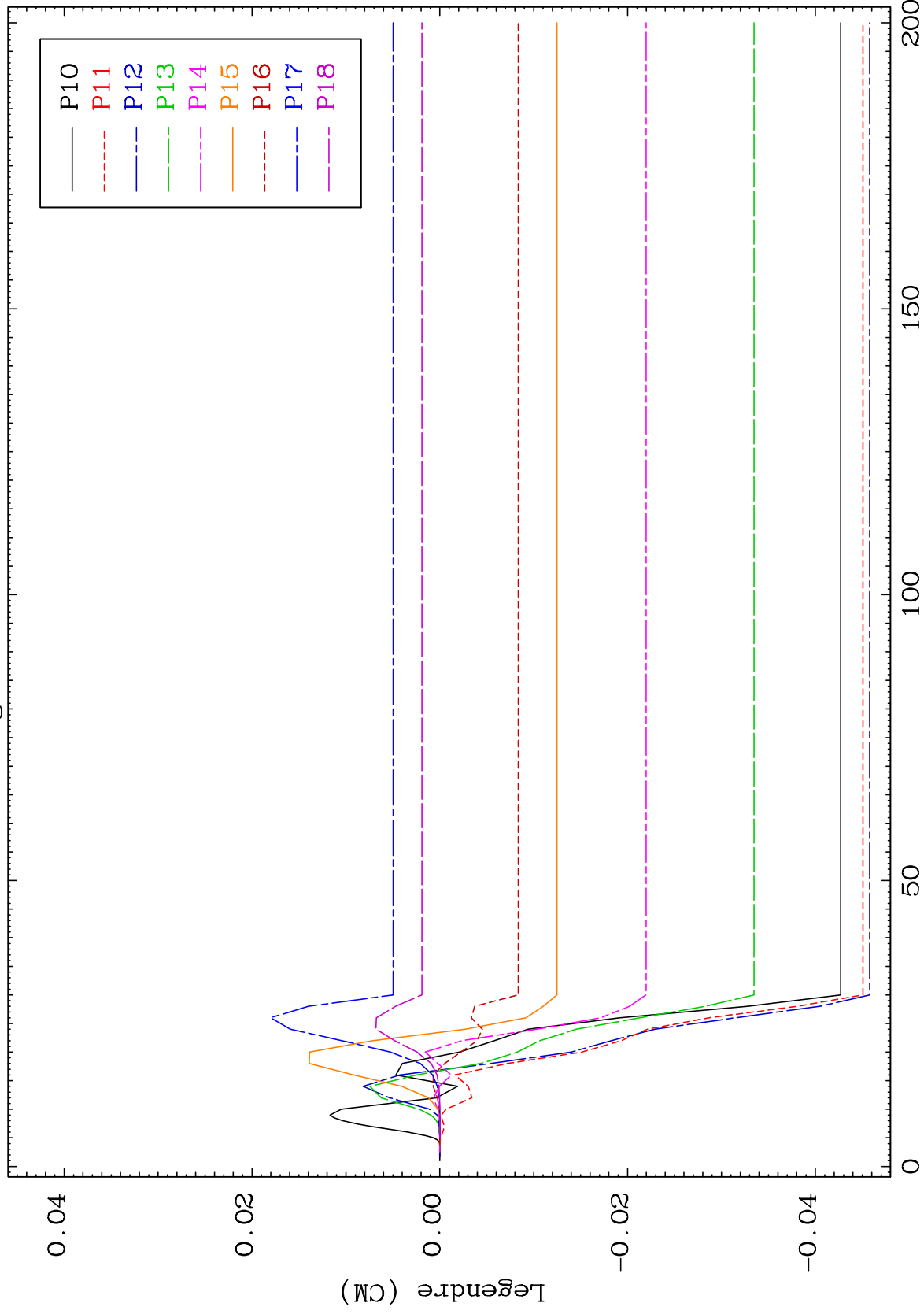
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Incident Energy (MeV)

MAT 6422

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

64-Gd-151



58

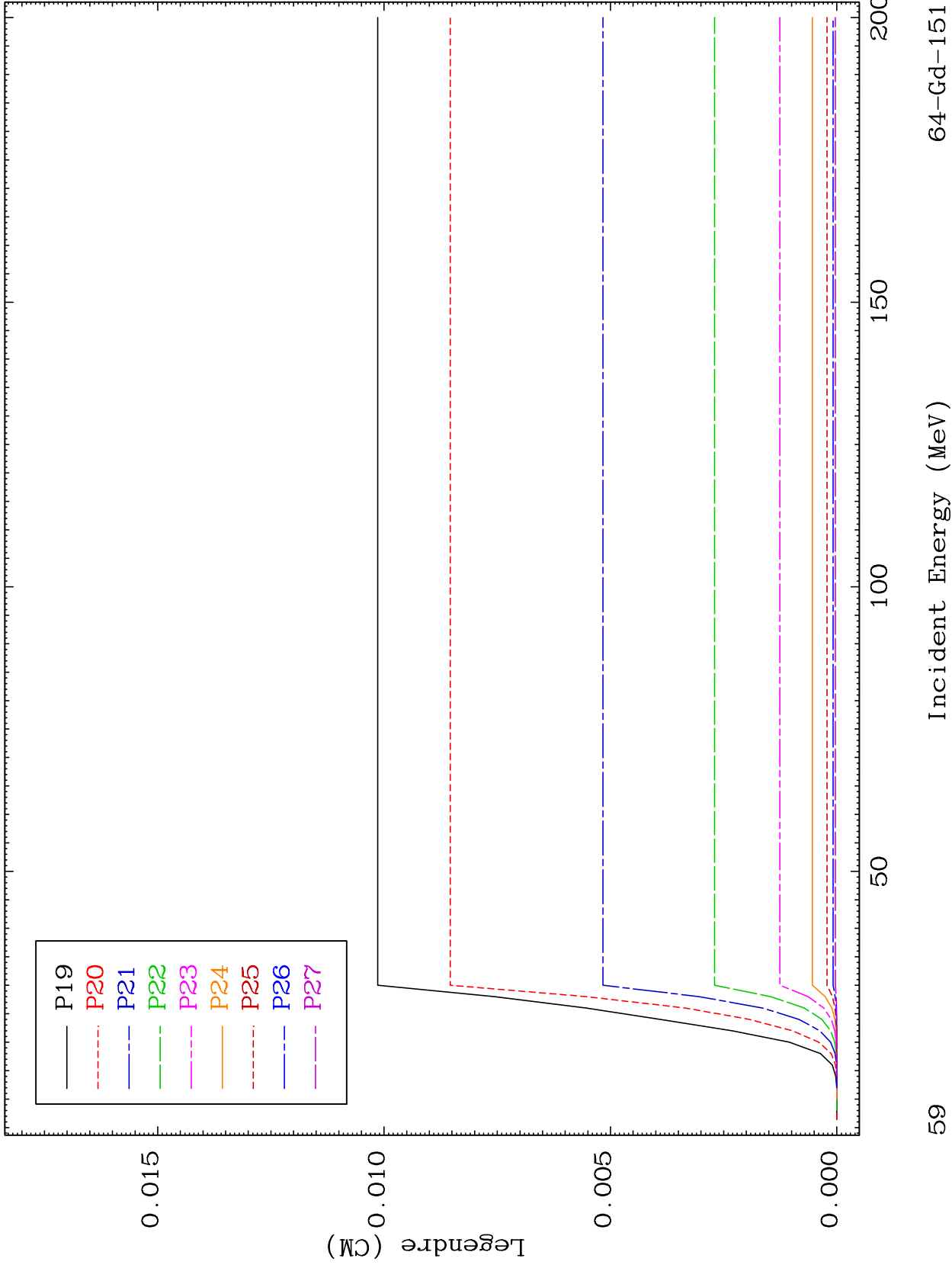
Incident Energy (MeV)

64-Gd-151

MAT 6422

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

64-Gd-151



59

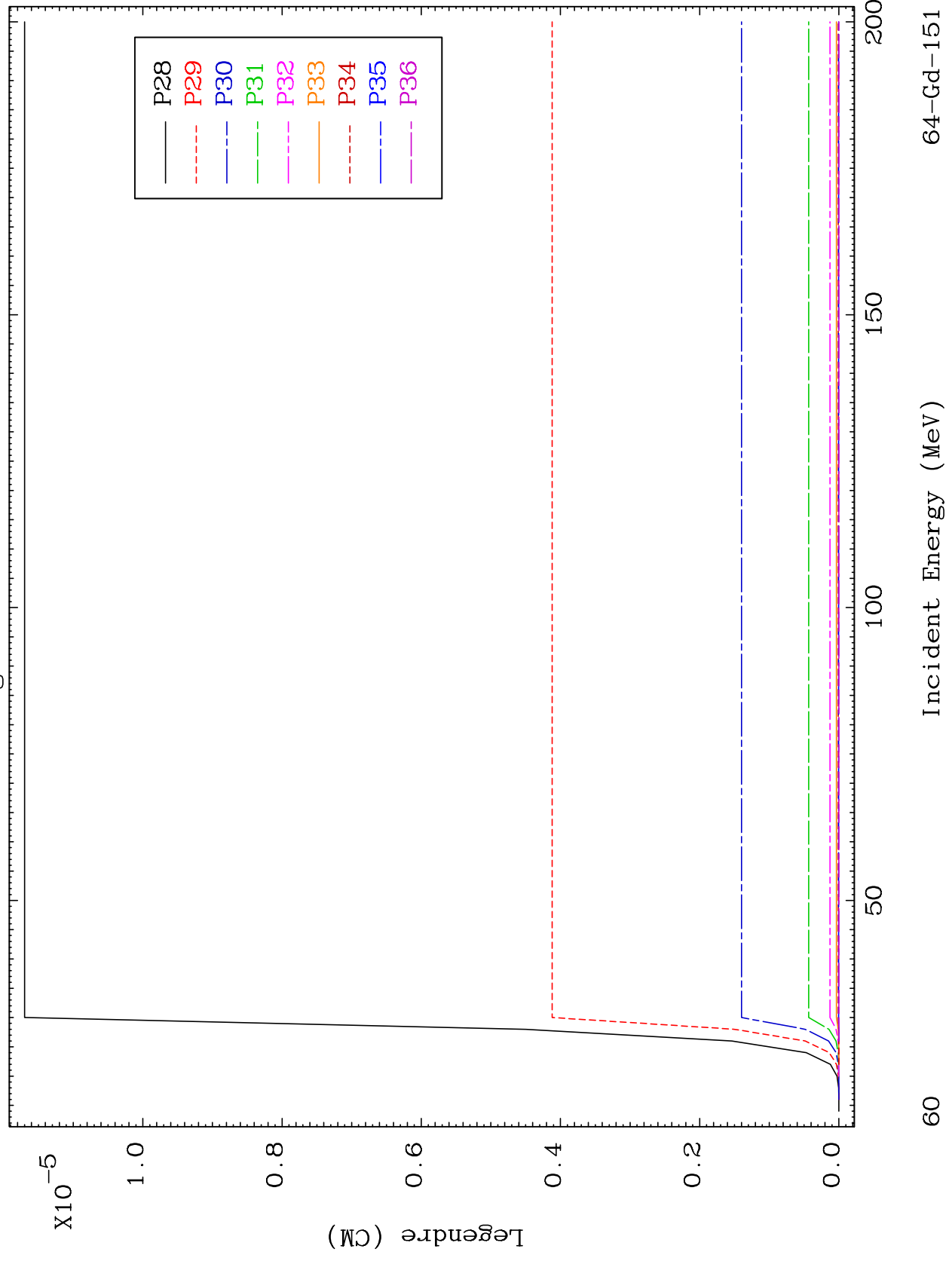
Incident Energy (MeV)

64-Gd-151

MAT 6422

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

64-Gd-151



64-Gd-151

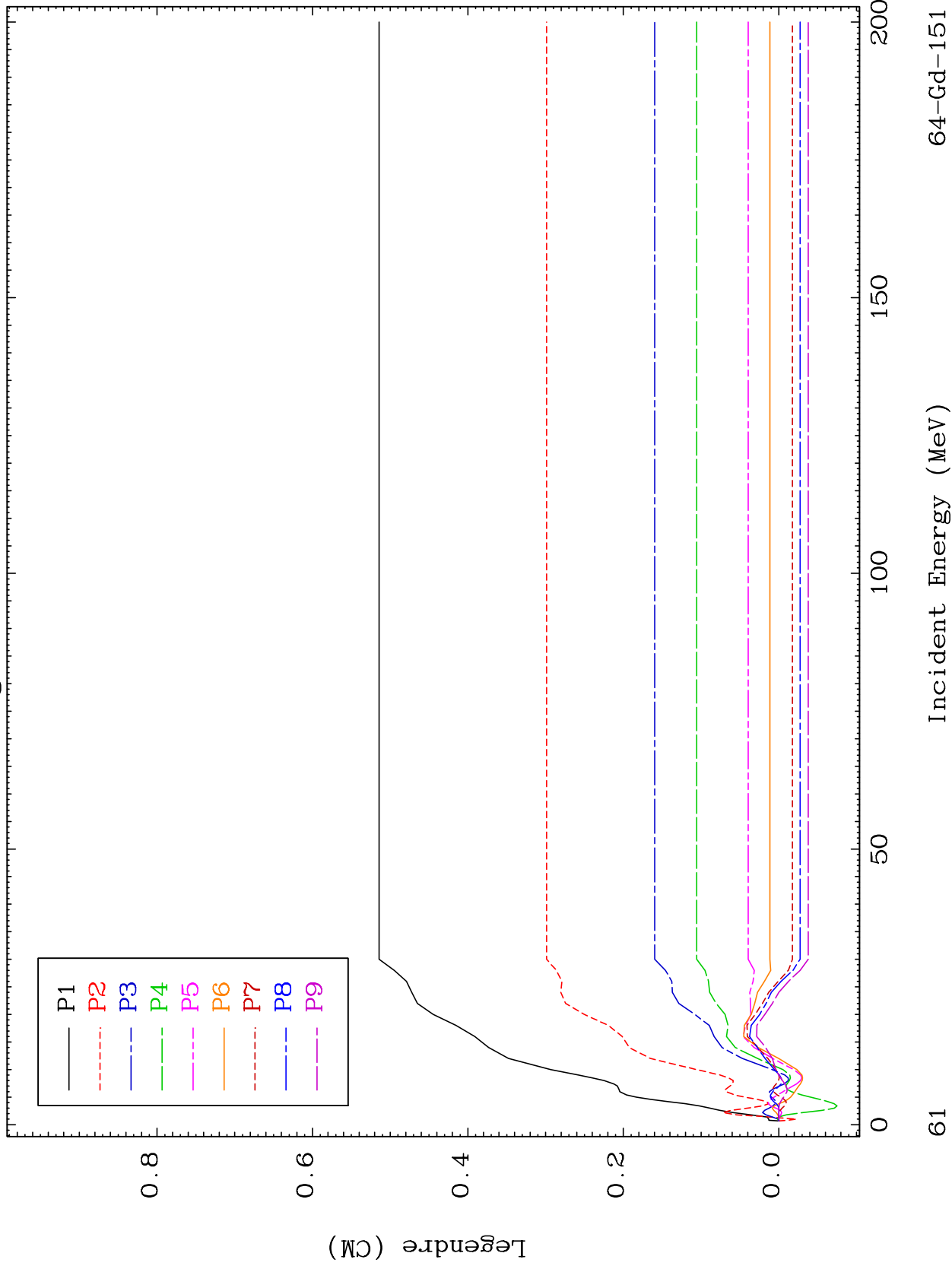
Incident Energy (MeV)

60

MAT 6422

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

64-Gd-151



64-Gd-151

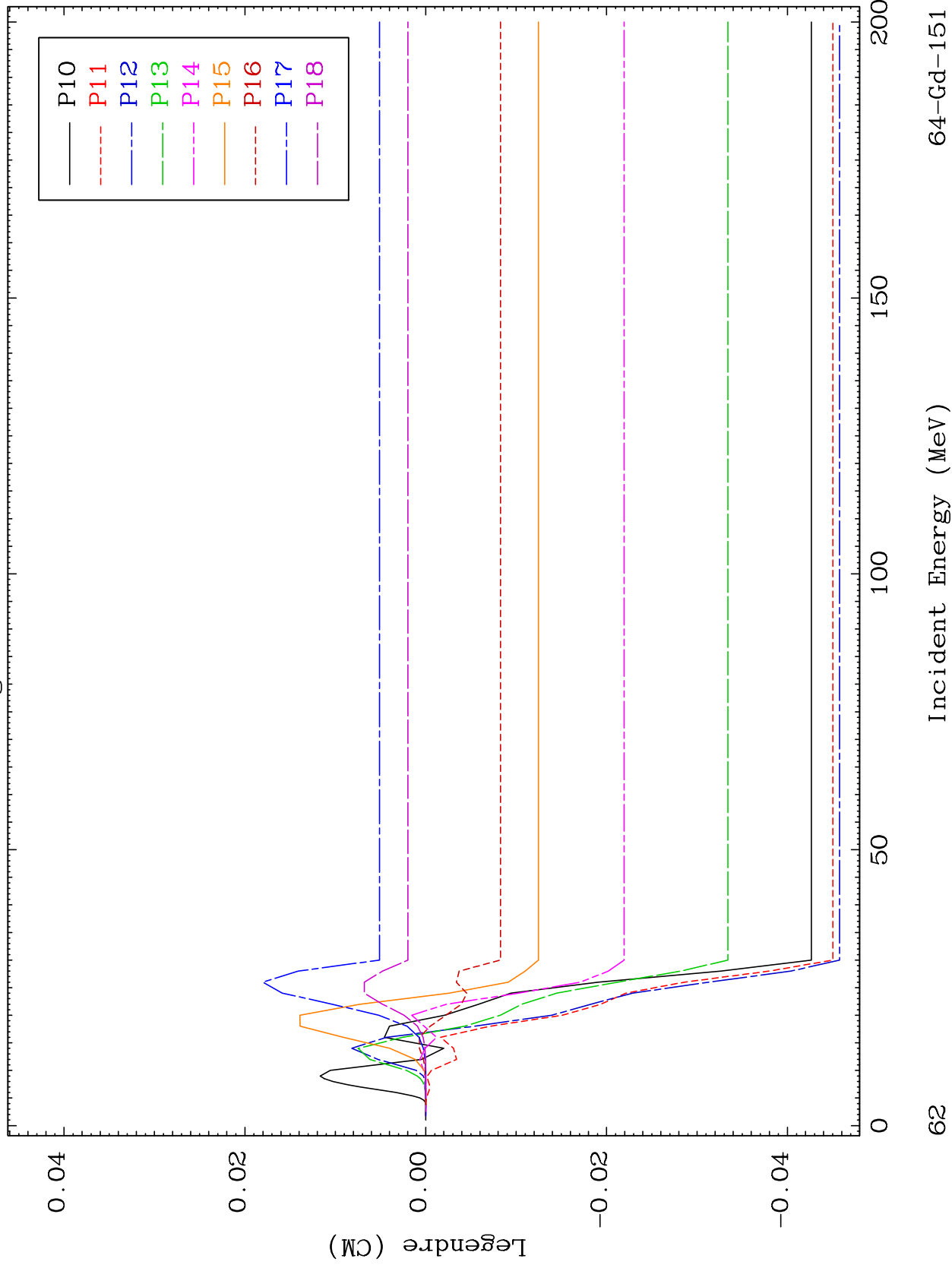
Incident Energy (MeV)

61

MAT 6422

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

64-Gd-151



64-Gd-151

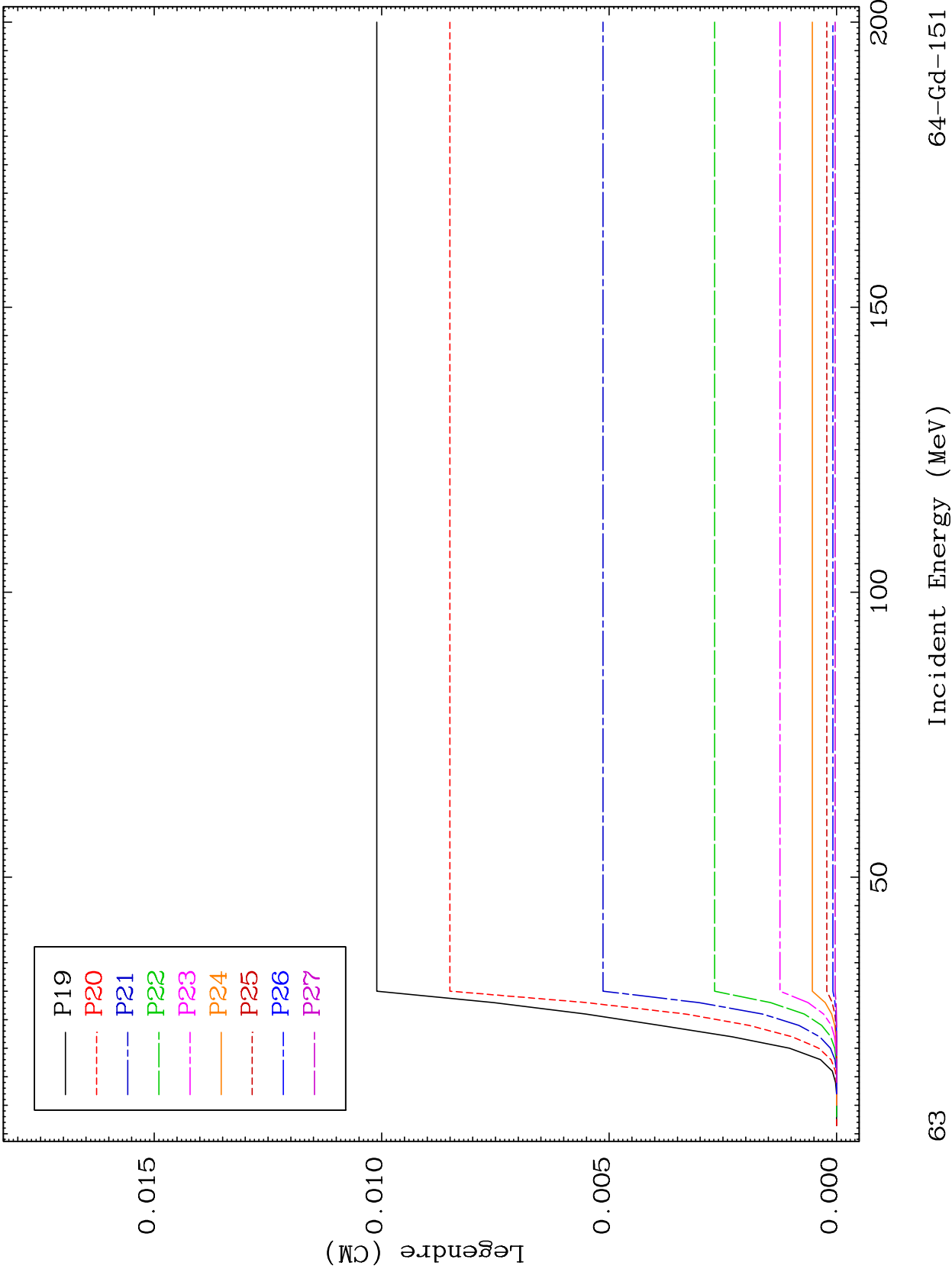
Incident Energy (MeV)

62

MAT 6422

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

64-Gd-151



63

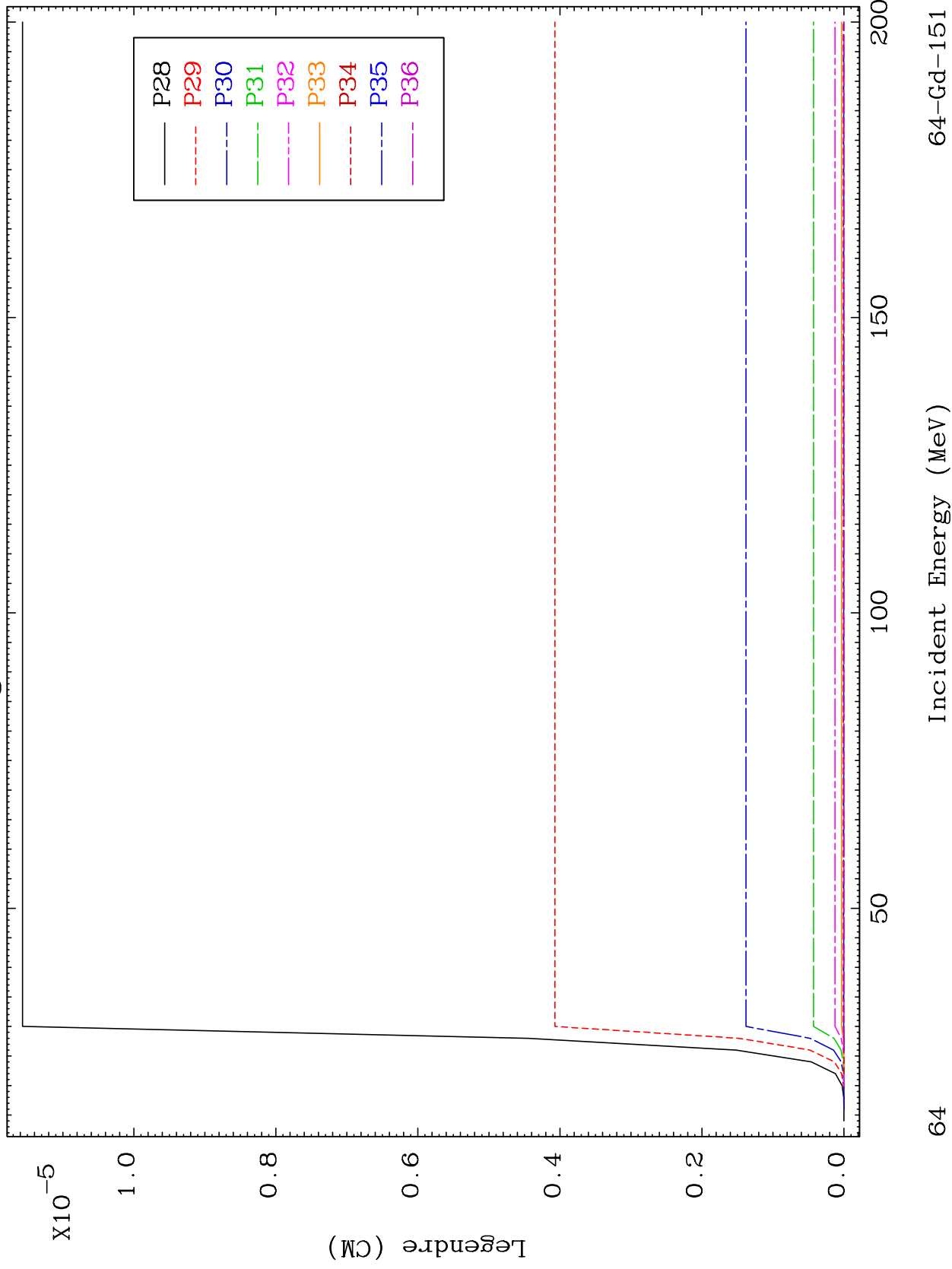
Incident Energy (MeV)

64-Gd-151

MAT 6422

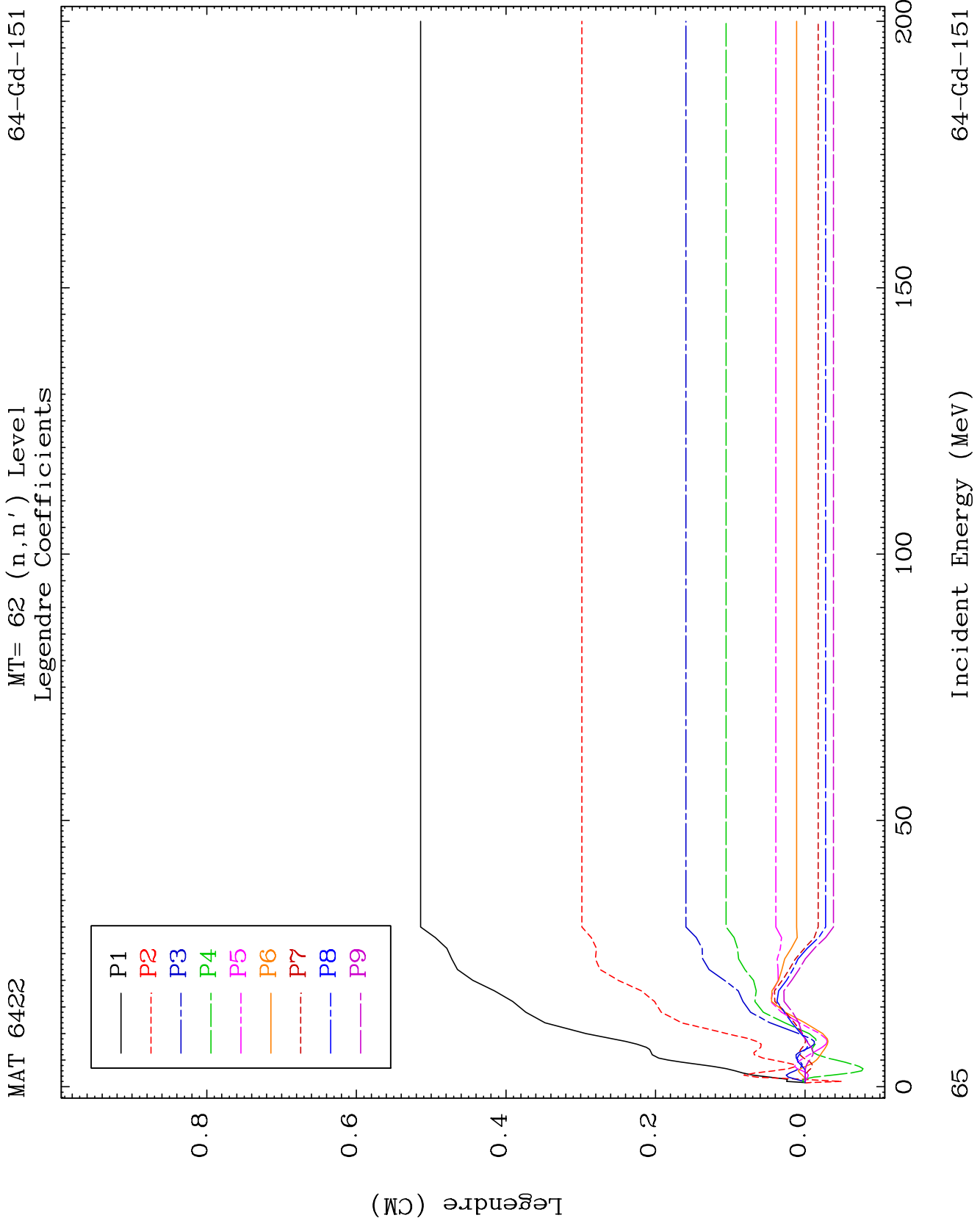
MT= 61 (n,n') Level  
Legendre Coefficients

64-Gd-151



64

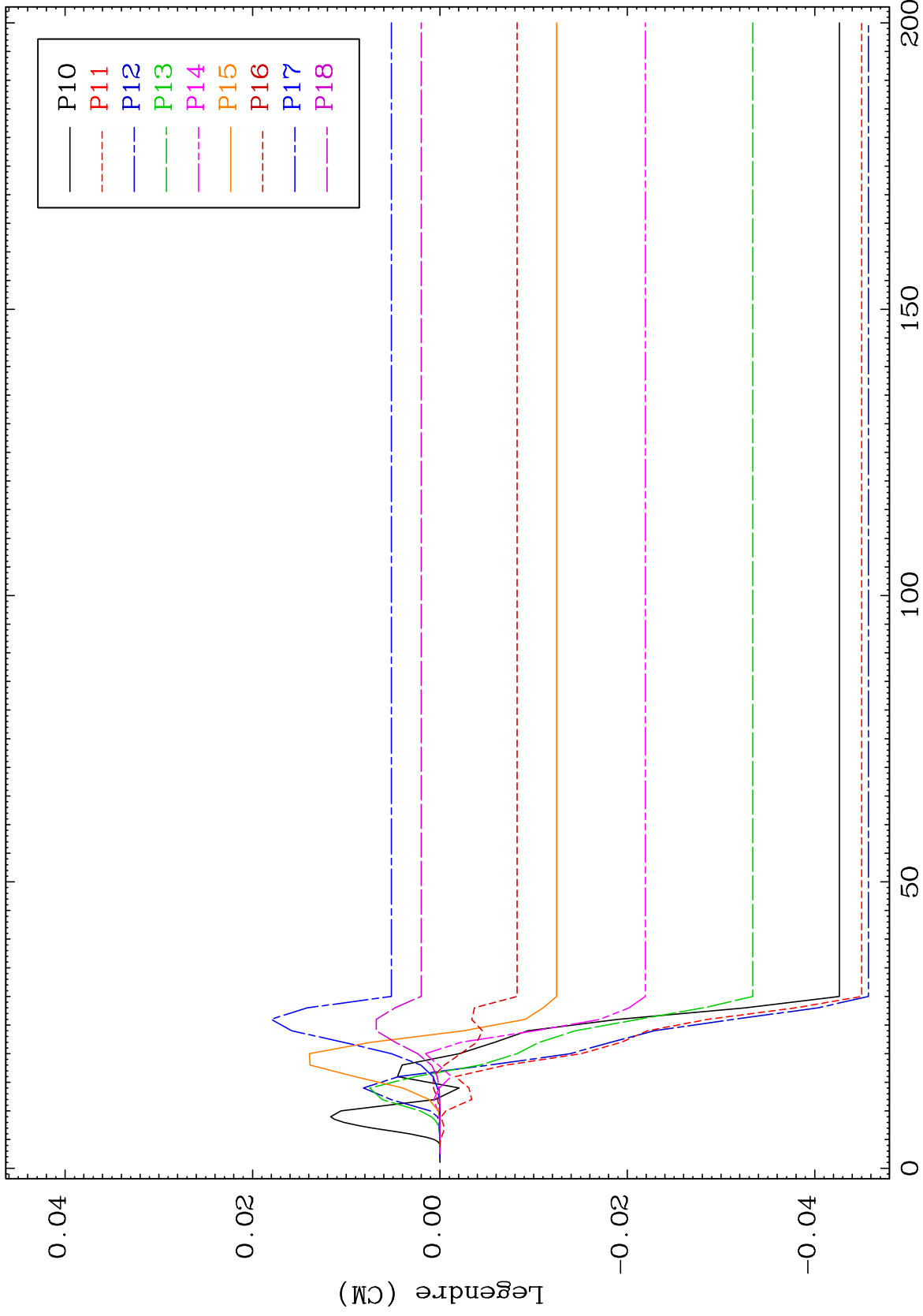
64-Gd-151



MAT 6422

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

64-Gd-151



66

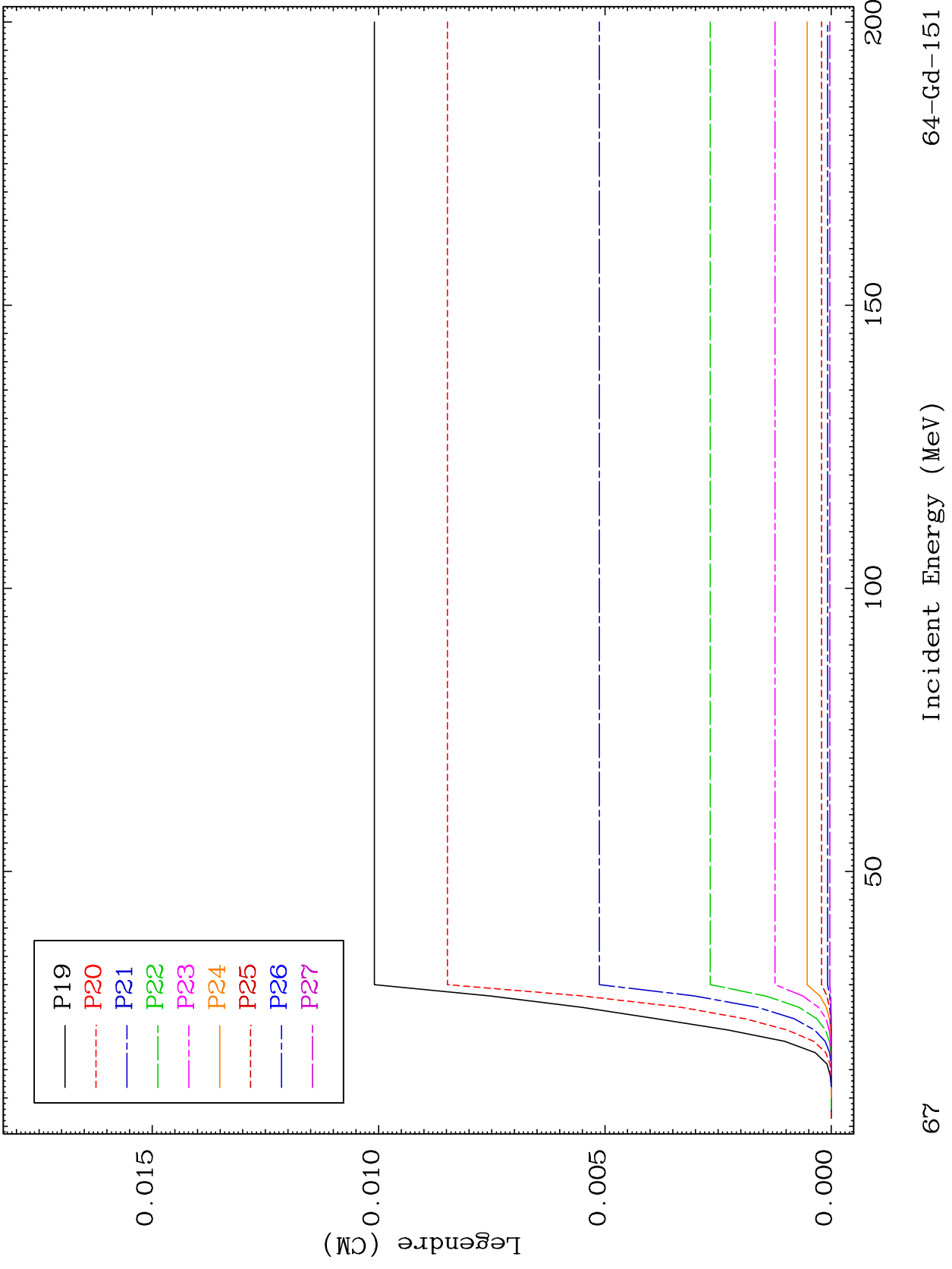
Incident Energy (MeV)

64-Gd-151

MAT 6422

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

64-Gd-151



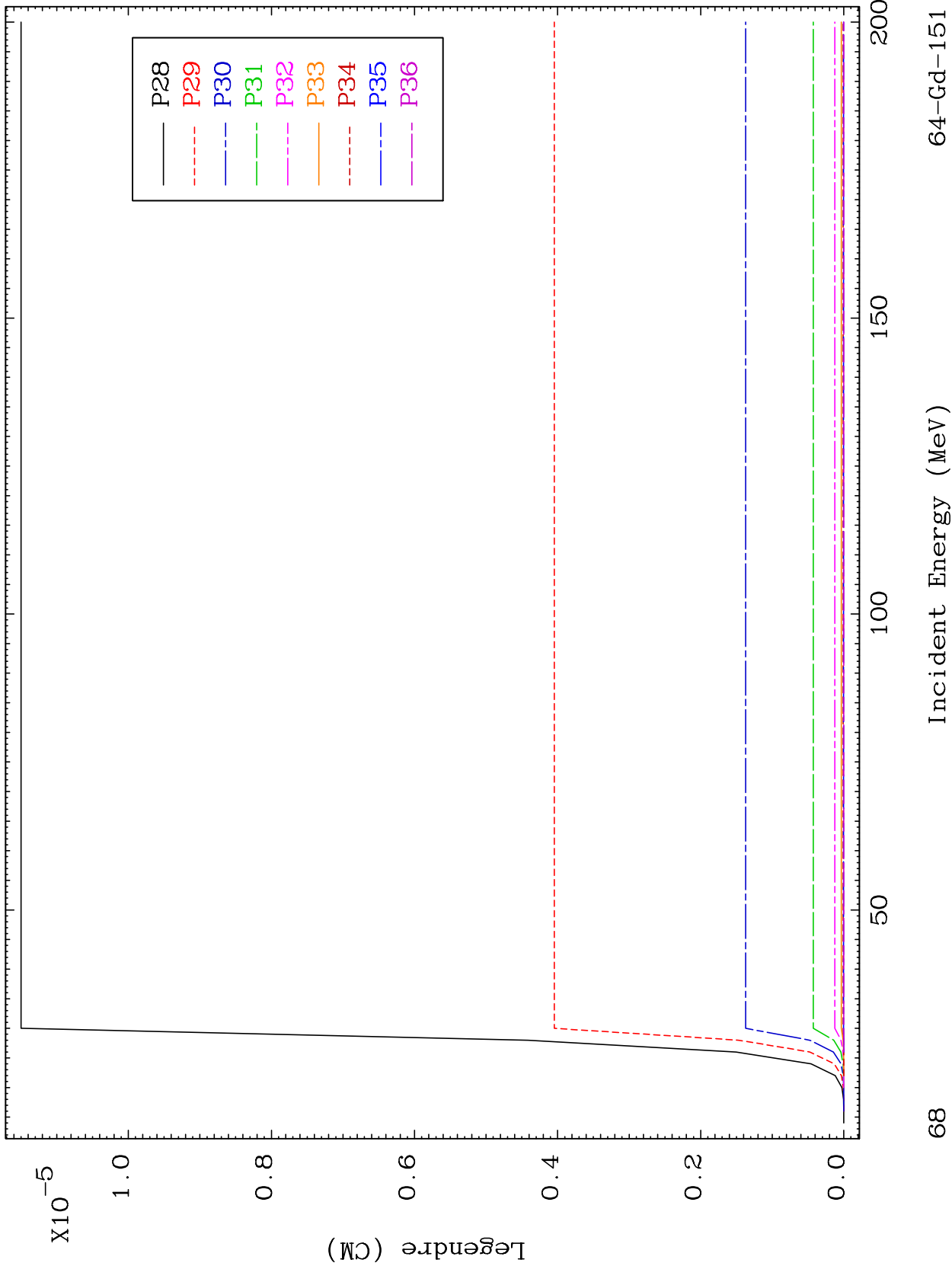
67

64-Gd-151

MAT 6422

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

64-Gd-151

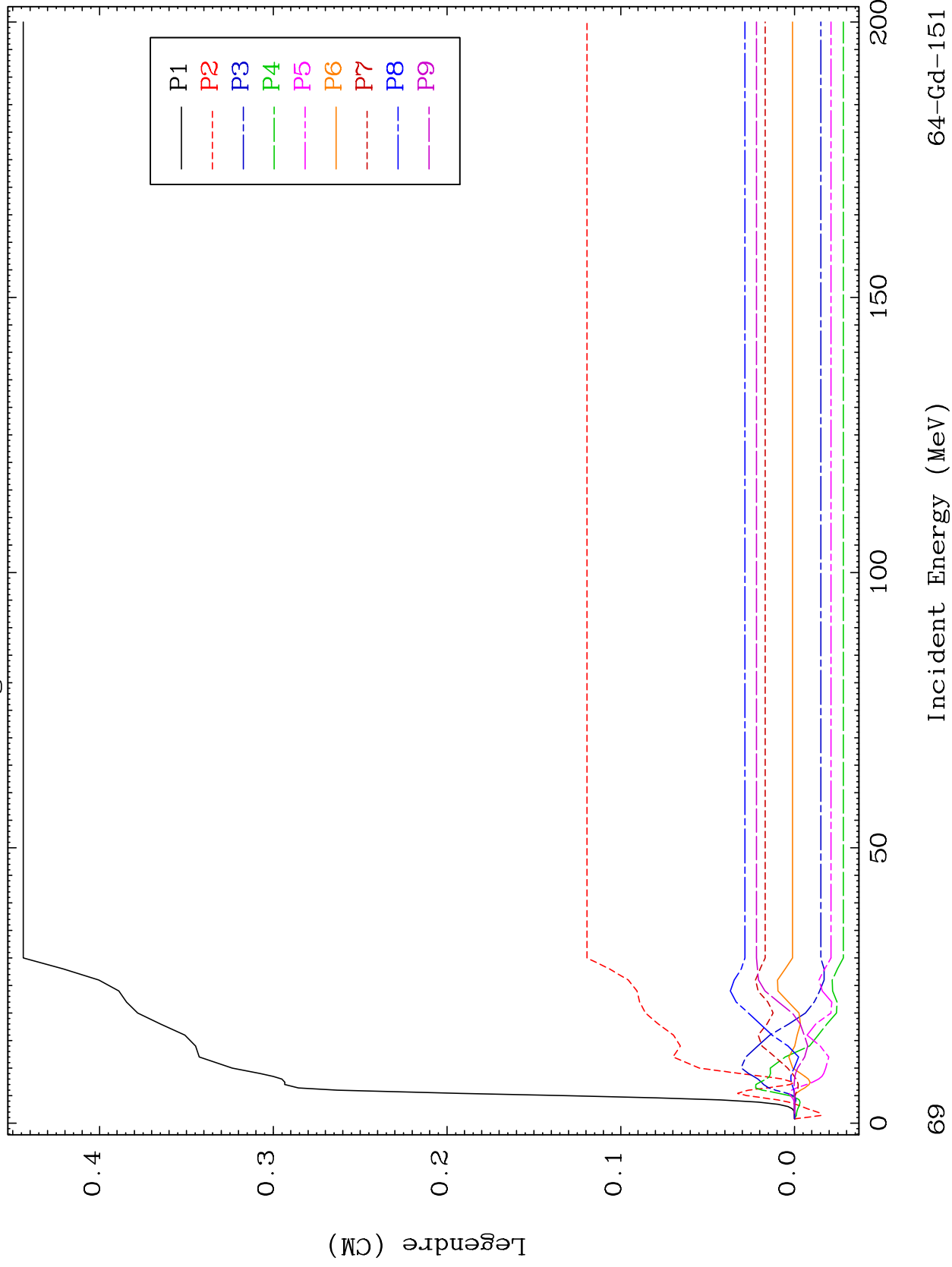


68

MAT 6422

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

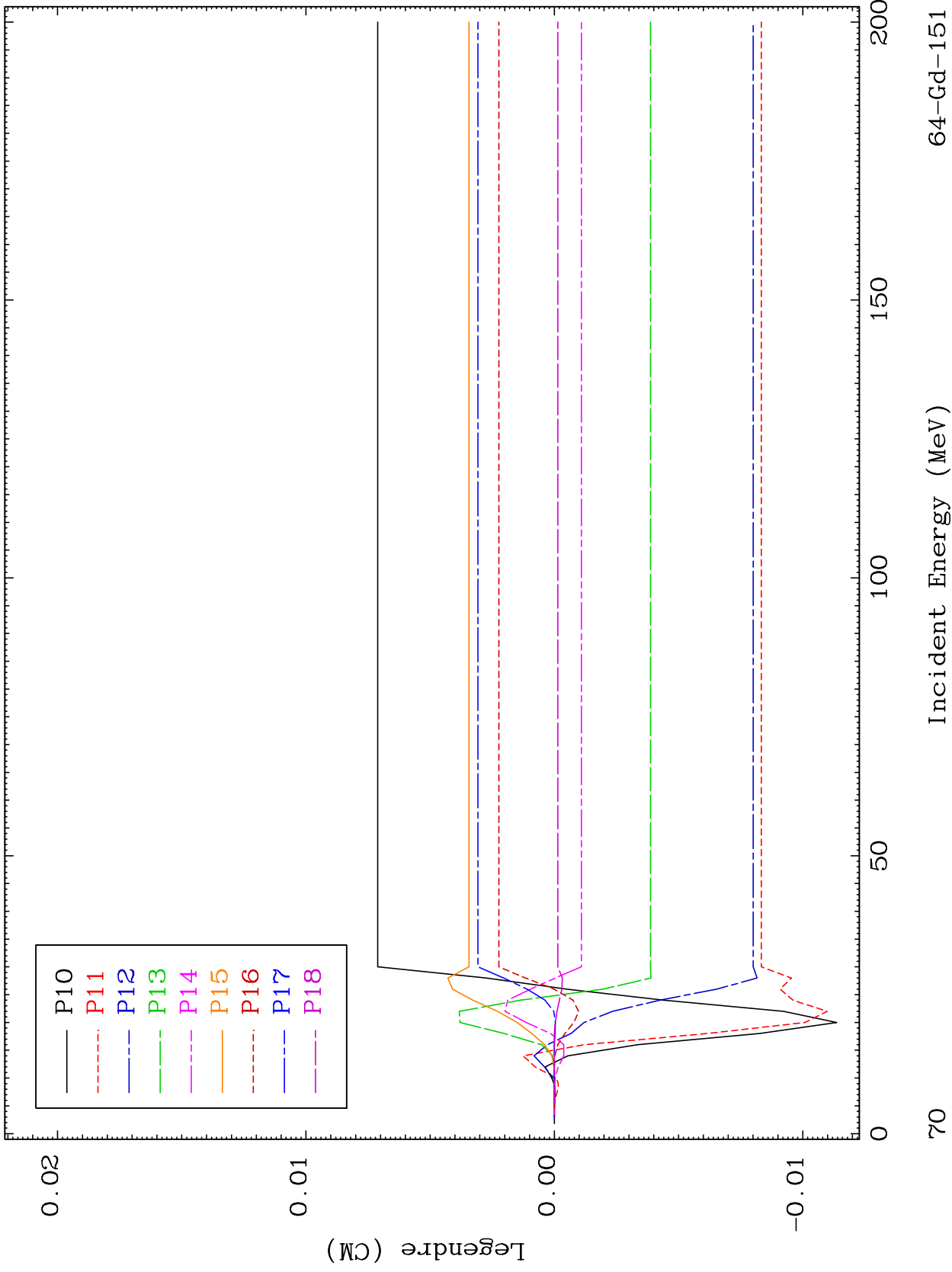
64-Gd-151



MAT 6422

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

64-Gd-151



64-Gd-151

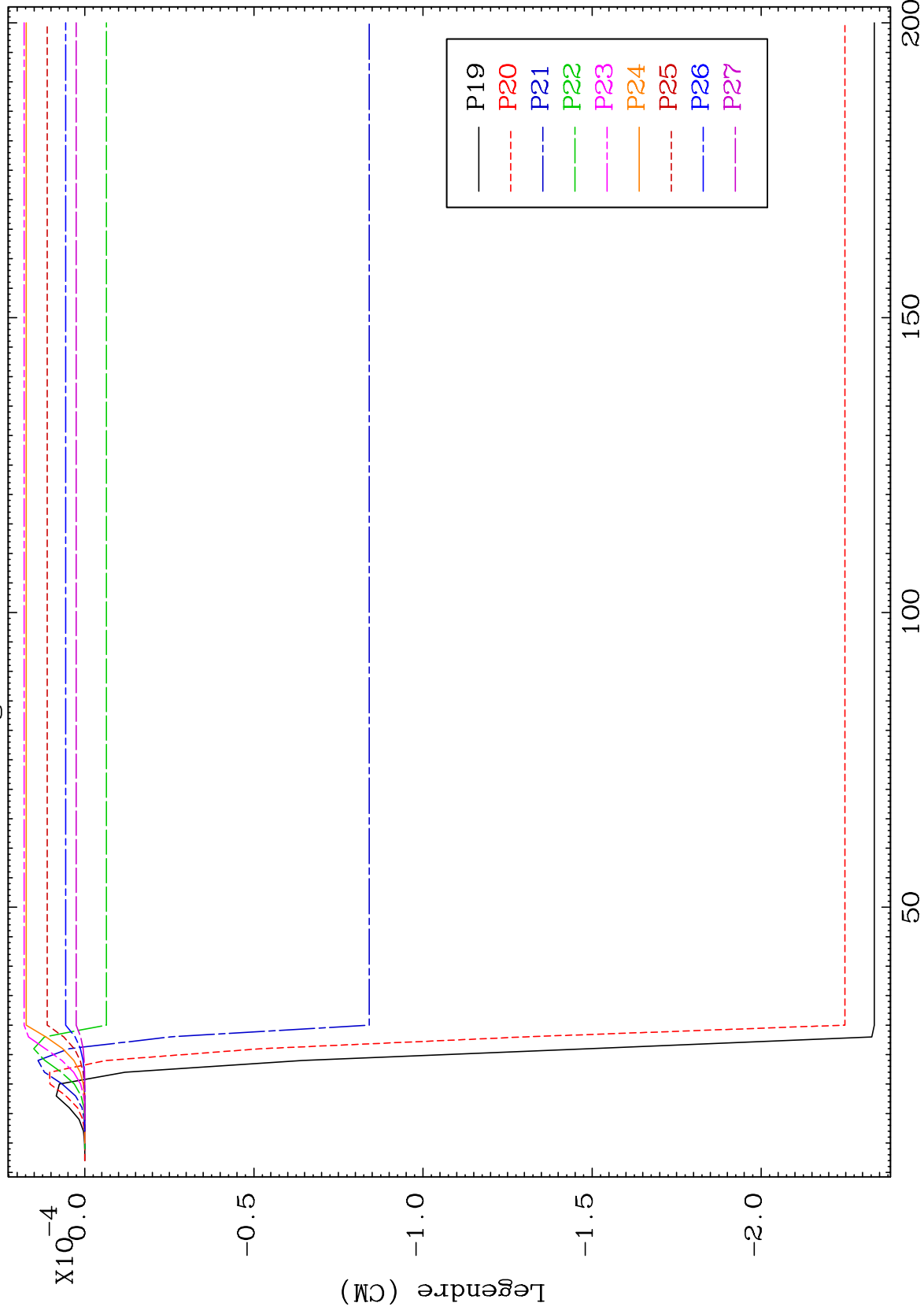
Incident Energy (MeV)

70

MAT 6422

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

64-Gd-151



71

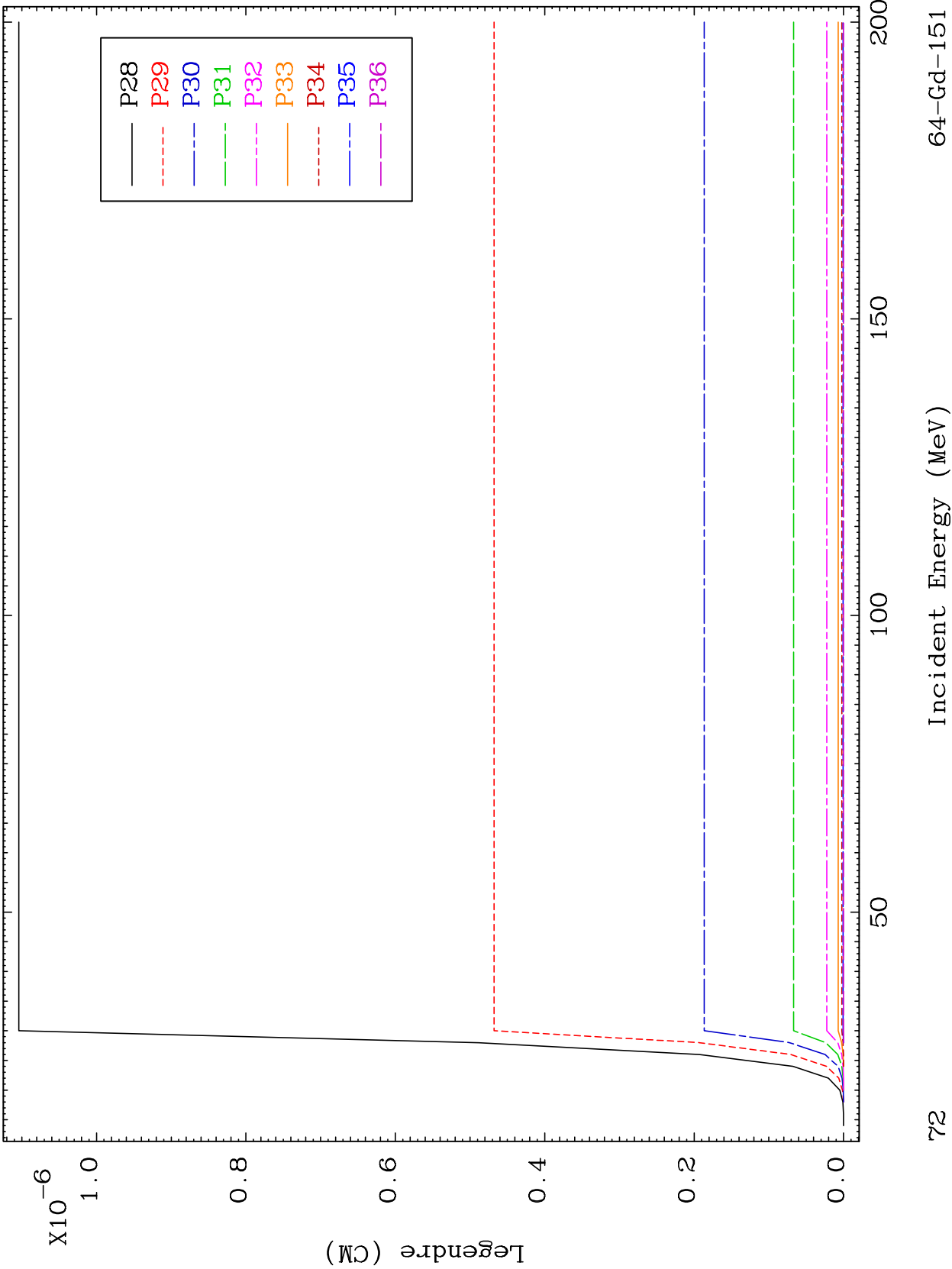
Incident Energy (MeV)

64-Gd-151

MAT 6422

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

64-Gd-151



72

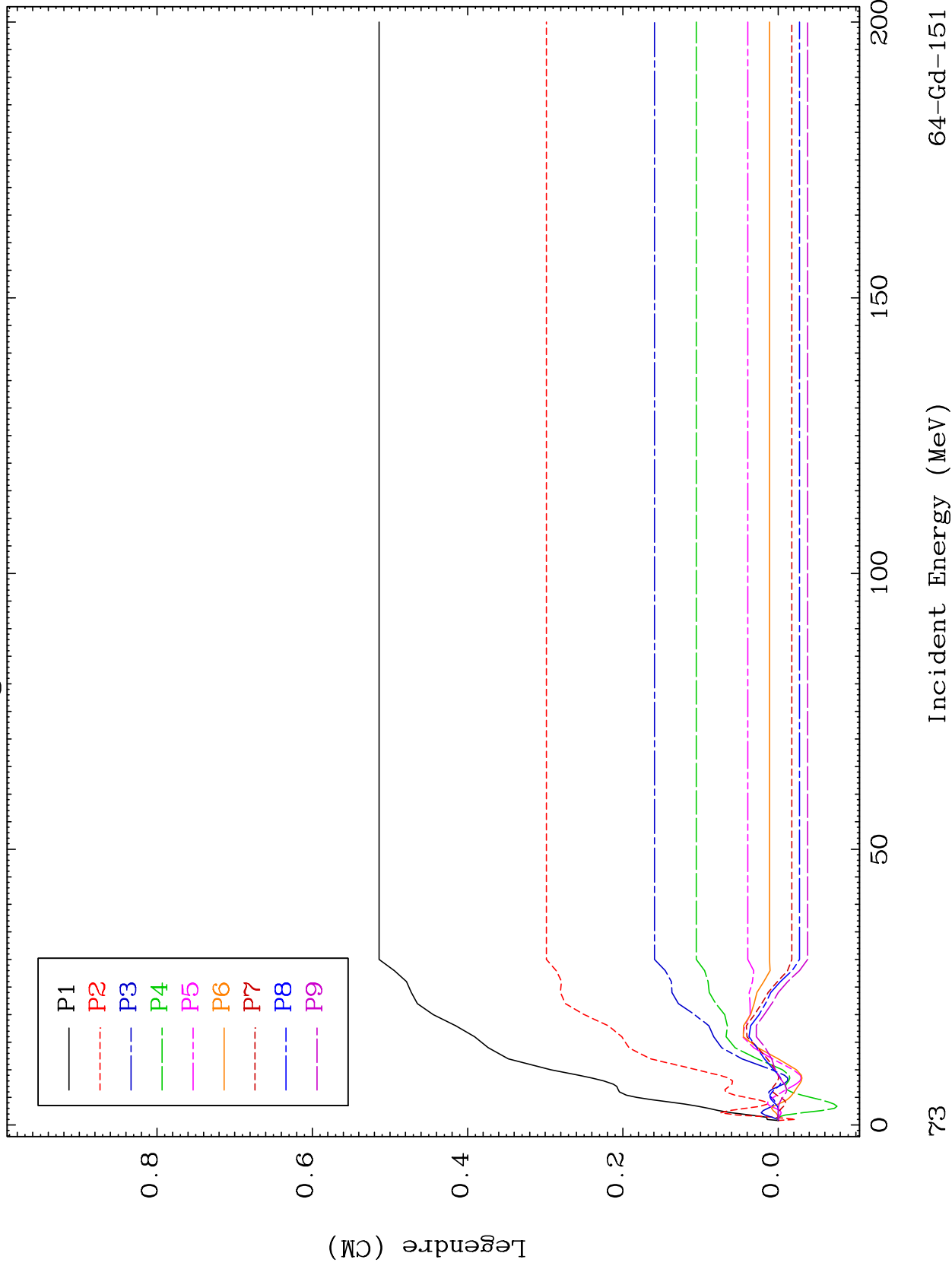
Incident Energy (MeV)

64-Gd-151

MAT 6422

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

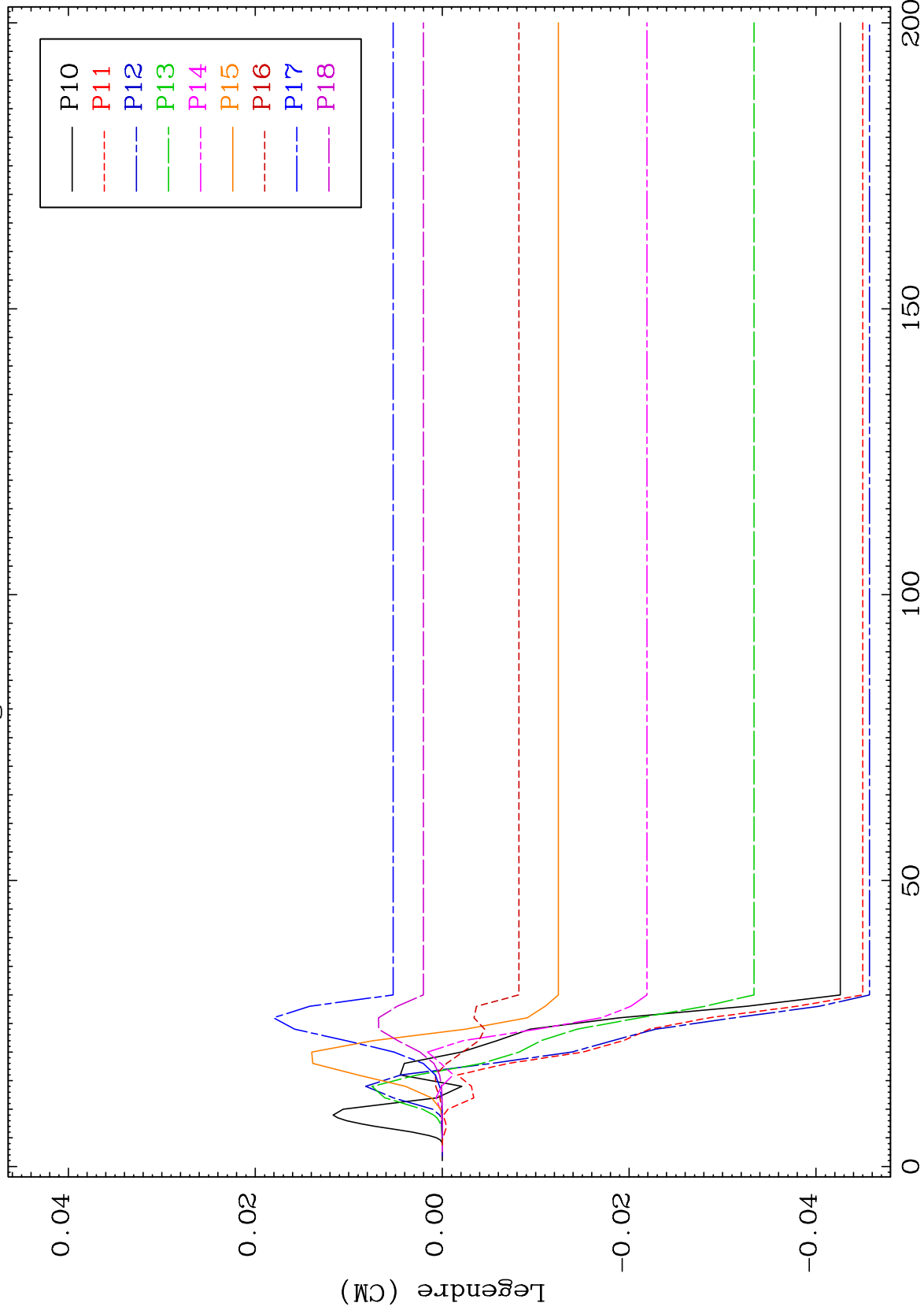
64-Gd-151



MAT 6422

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

64-Gd-151



74

Incident Energy (MeV)

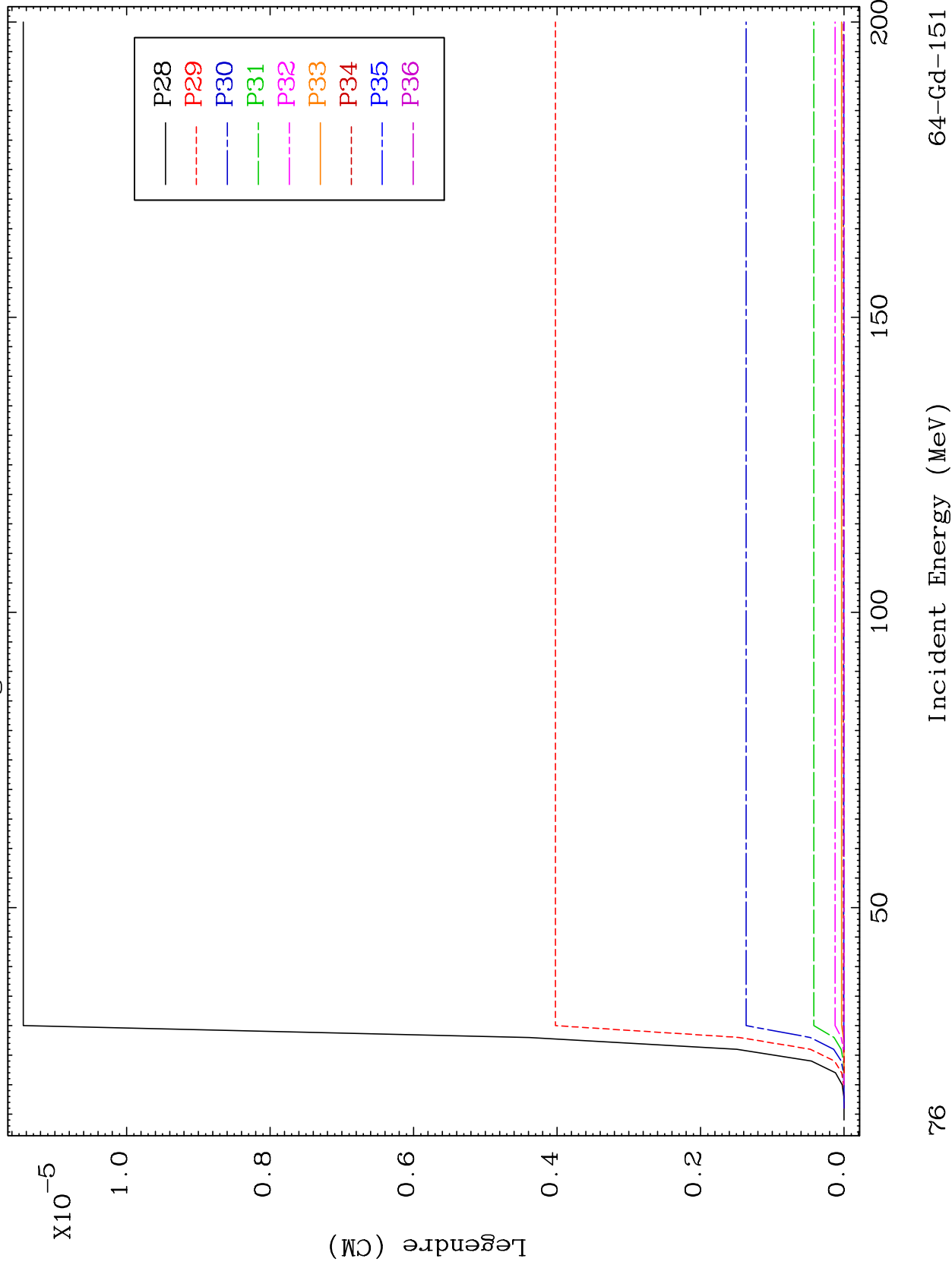
64-Gd-151



MAT 6422

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

64-Gd-151



76

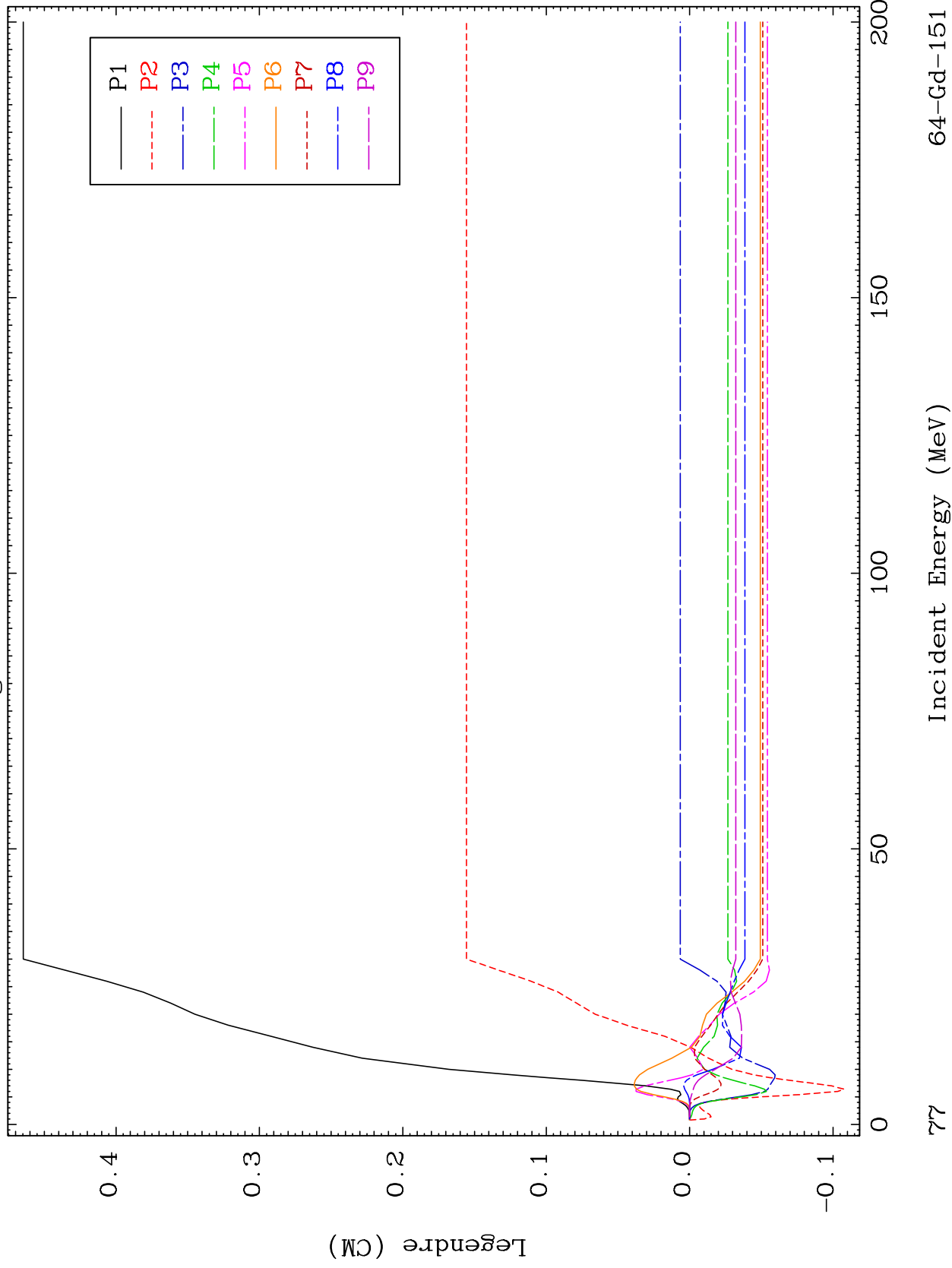
Incident Energy (MeV)

64-Gd-151

MAT 6422

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

64-Gd-151



64-Gd-151

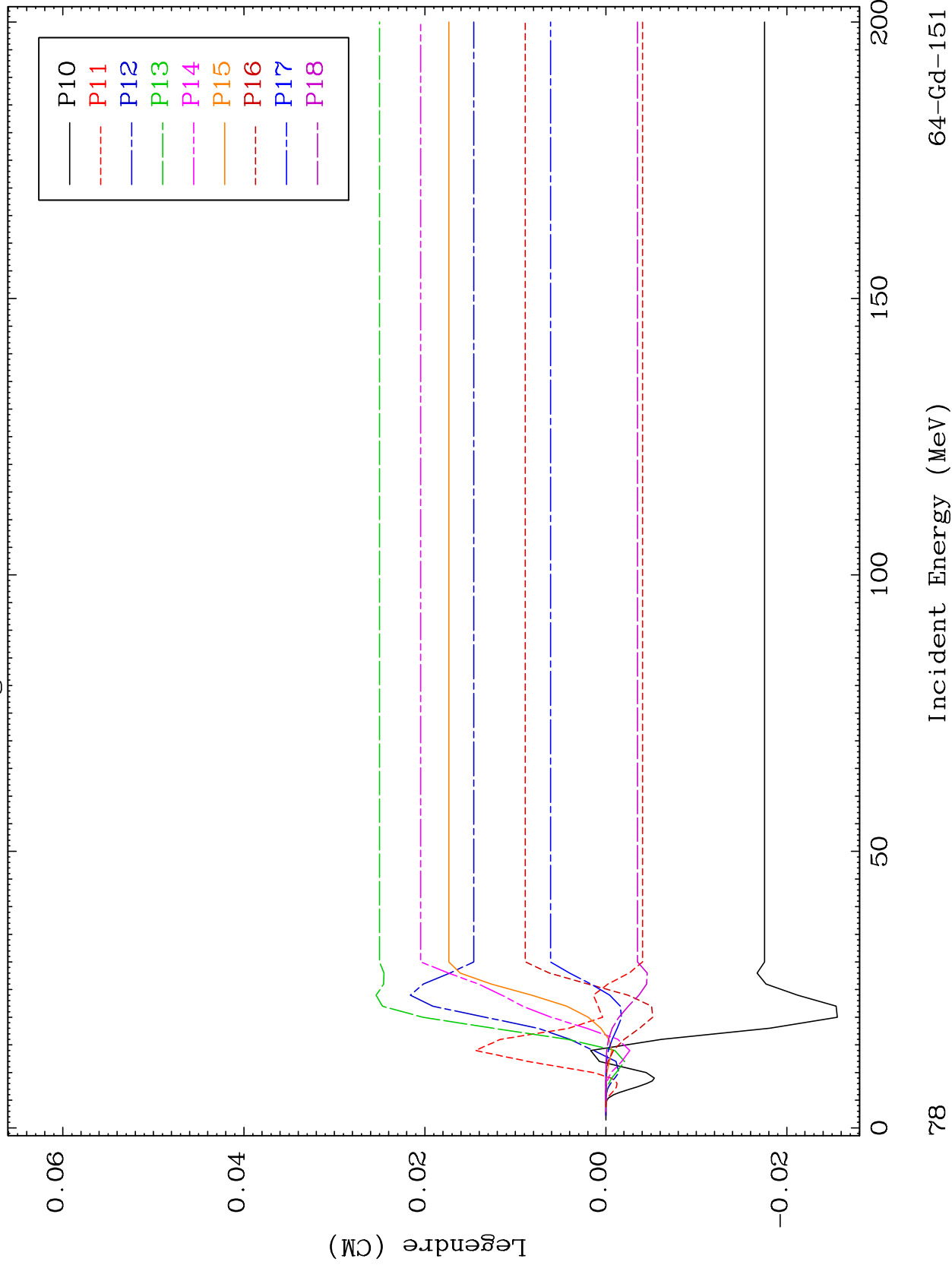
Incident Energy (MeV)

77

MAT 6422

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

64-Gd-151



64-Gd-151

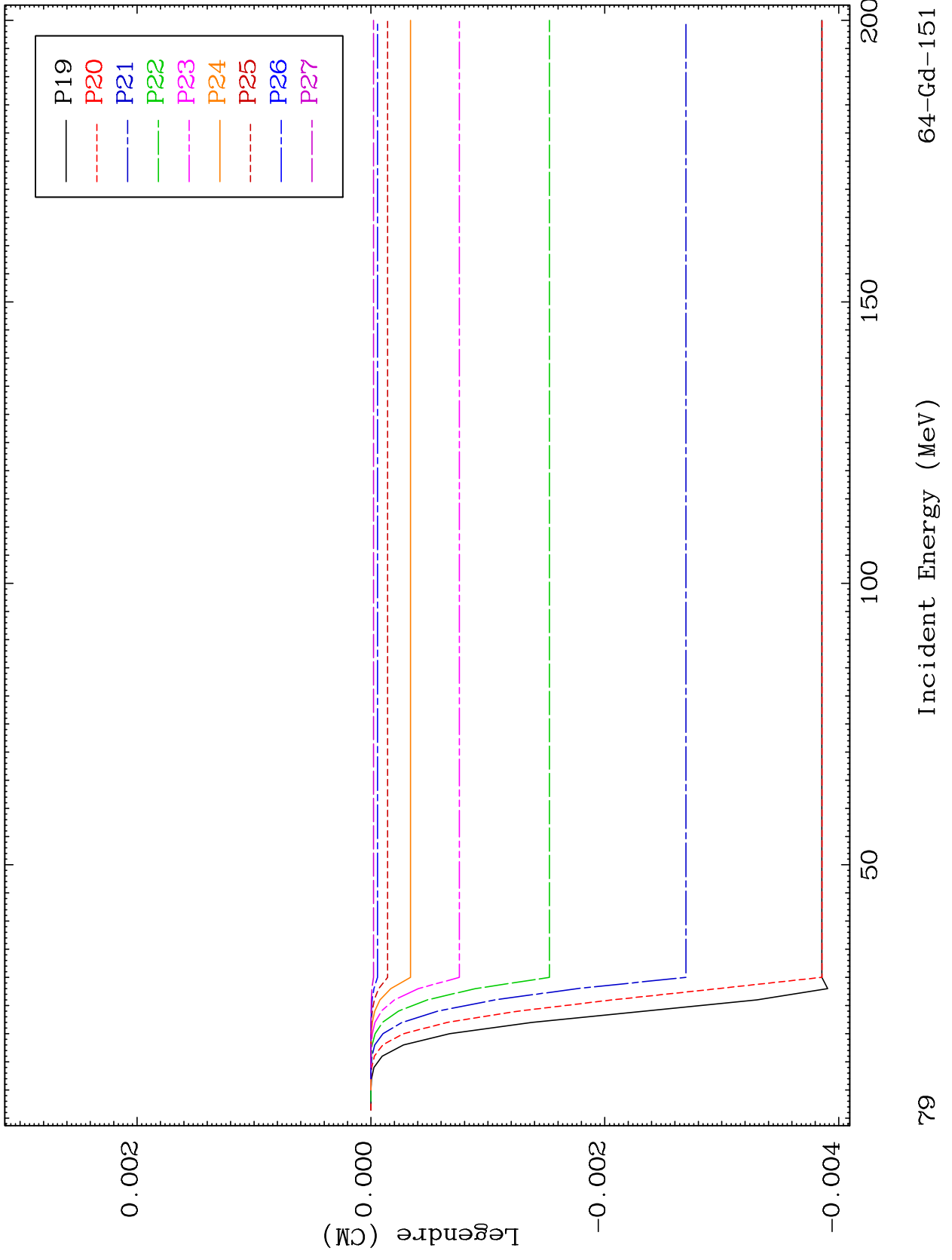
Incident Energy (MeV)

78

MAT 6422

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

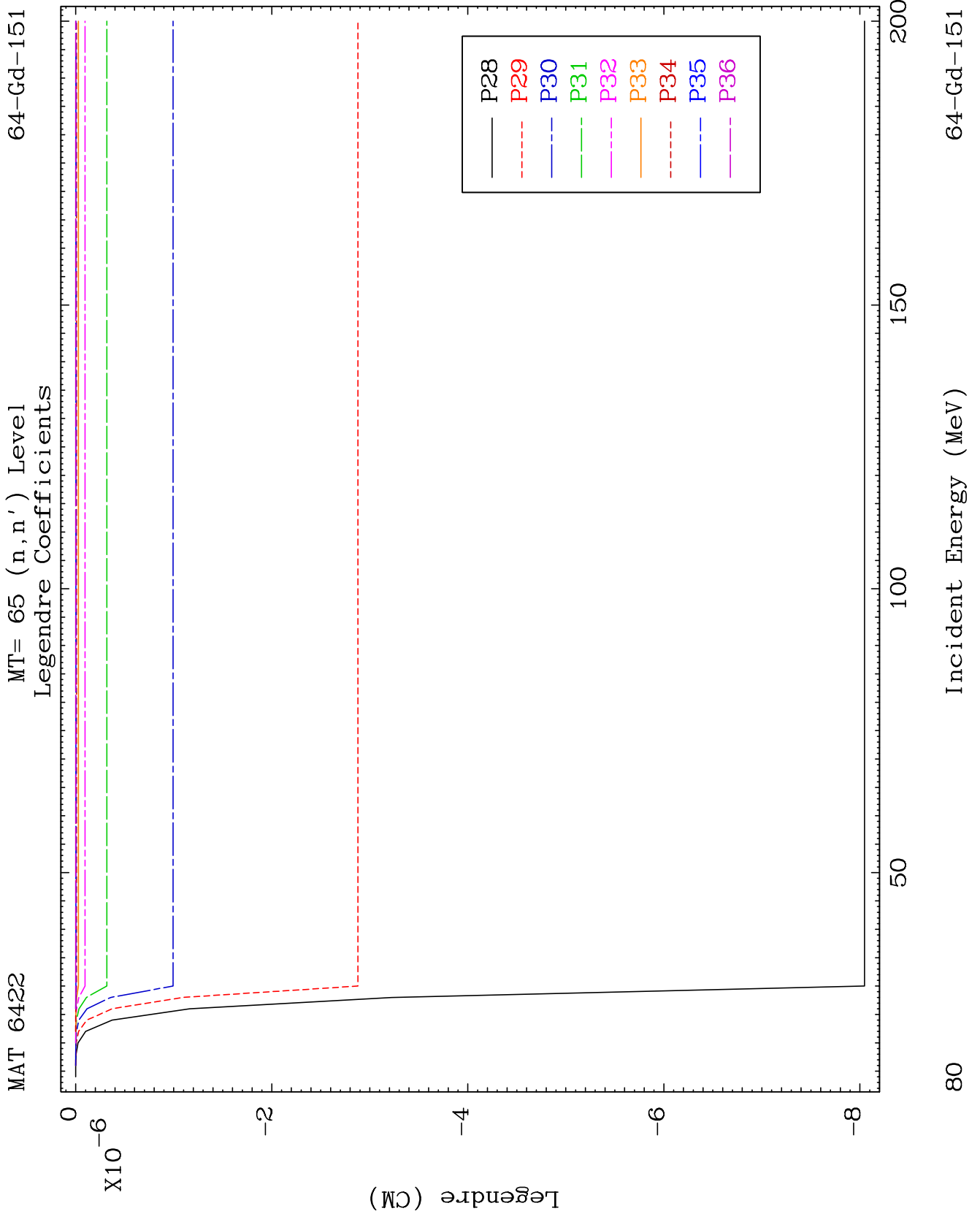
64-Gd-151



79

Incident Energy (MeV)

64-Gd-151

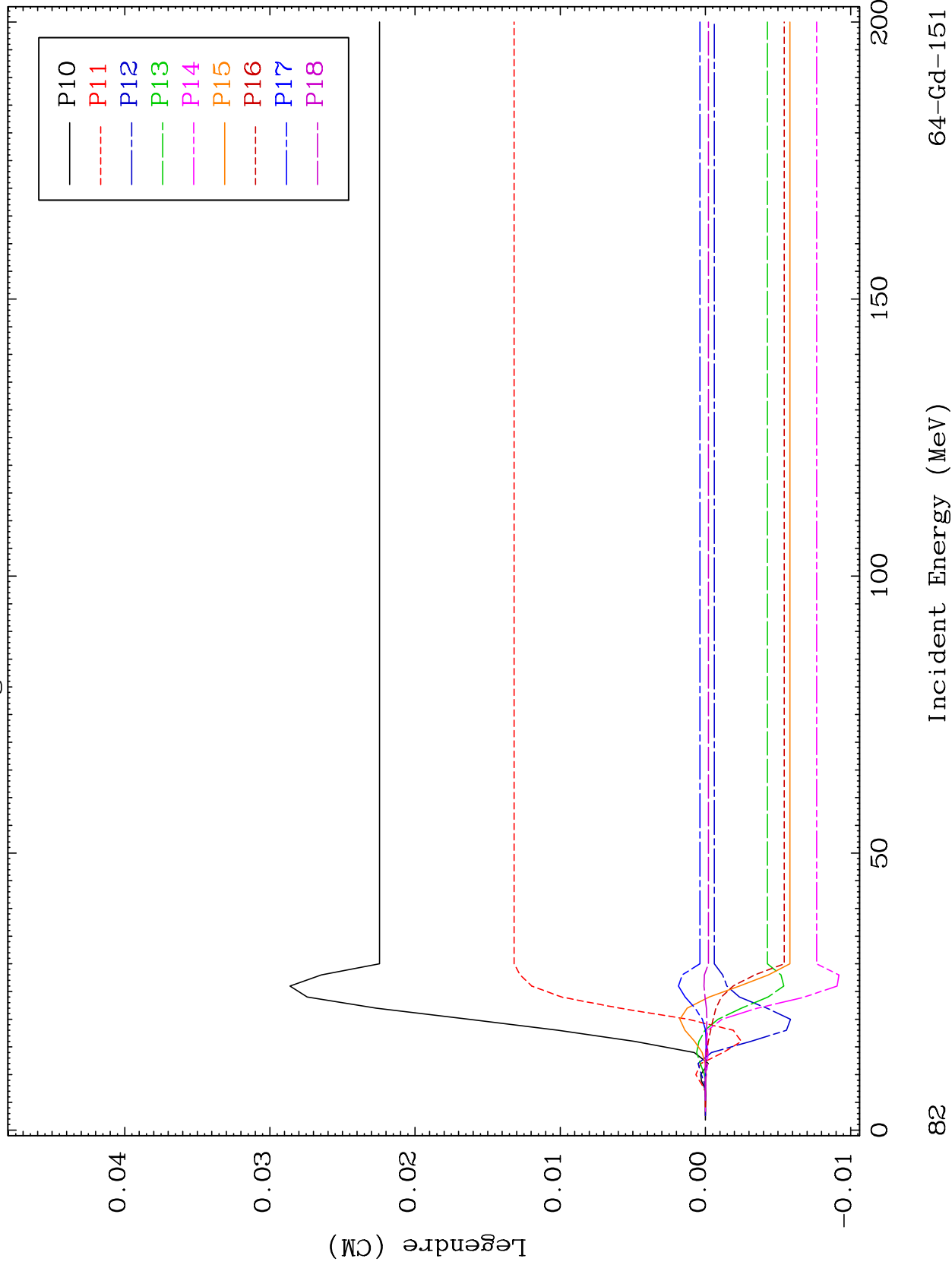




MAT 6422

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

64-Gd-151



64-Gd-151

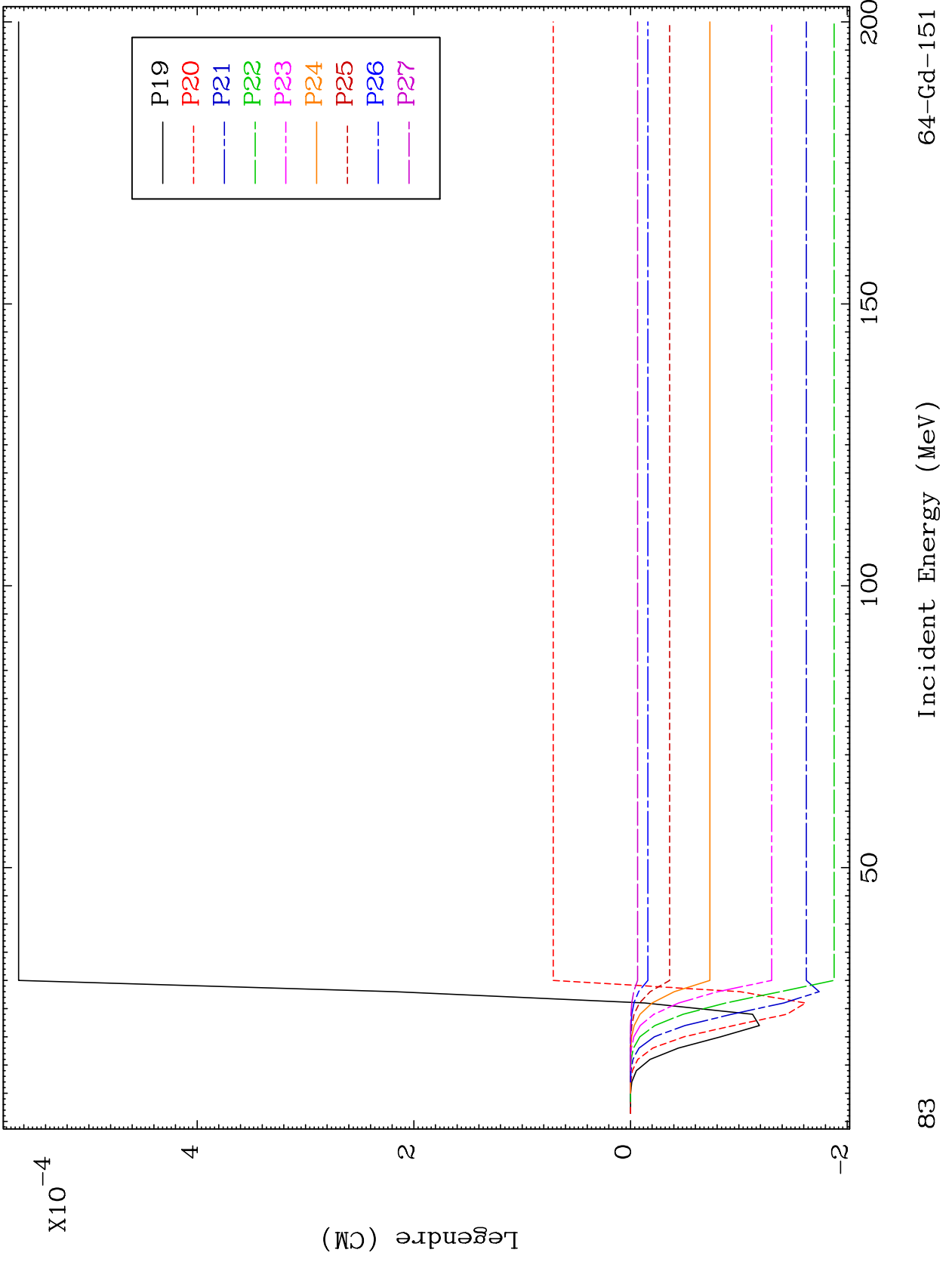
Incident Energy (MeV)

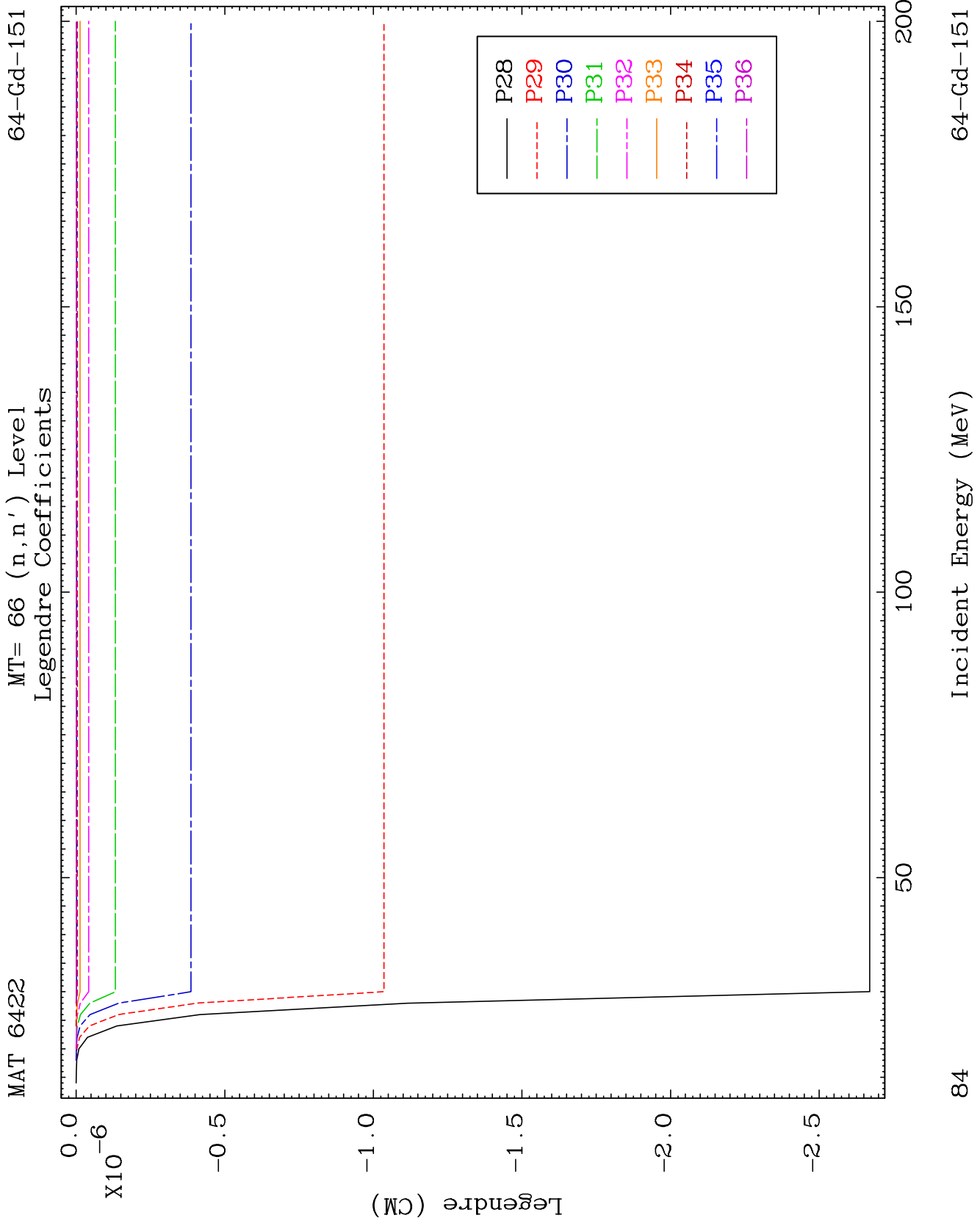
82

MAT 6422

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

64-Gd-151



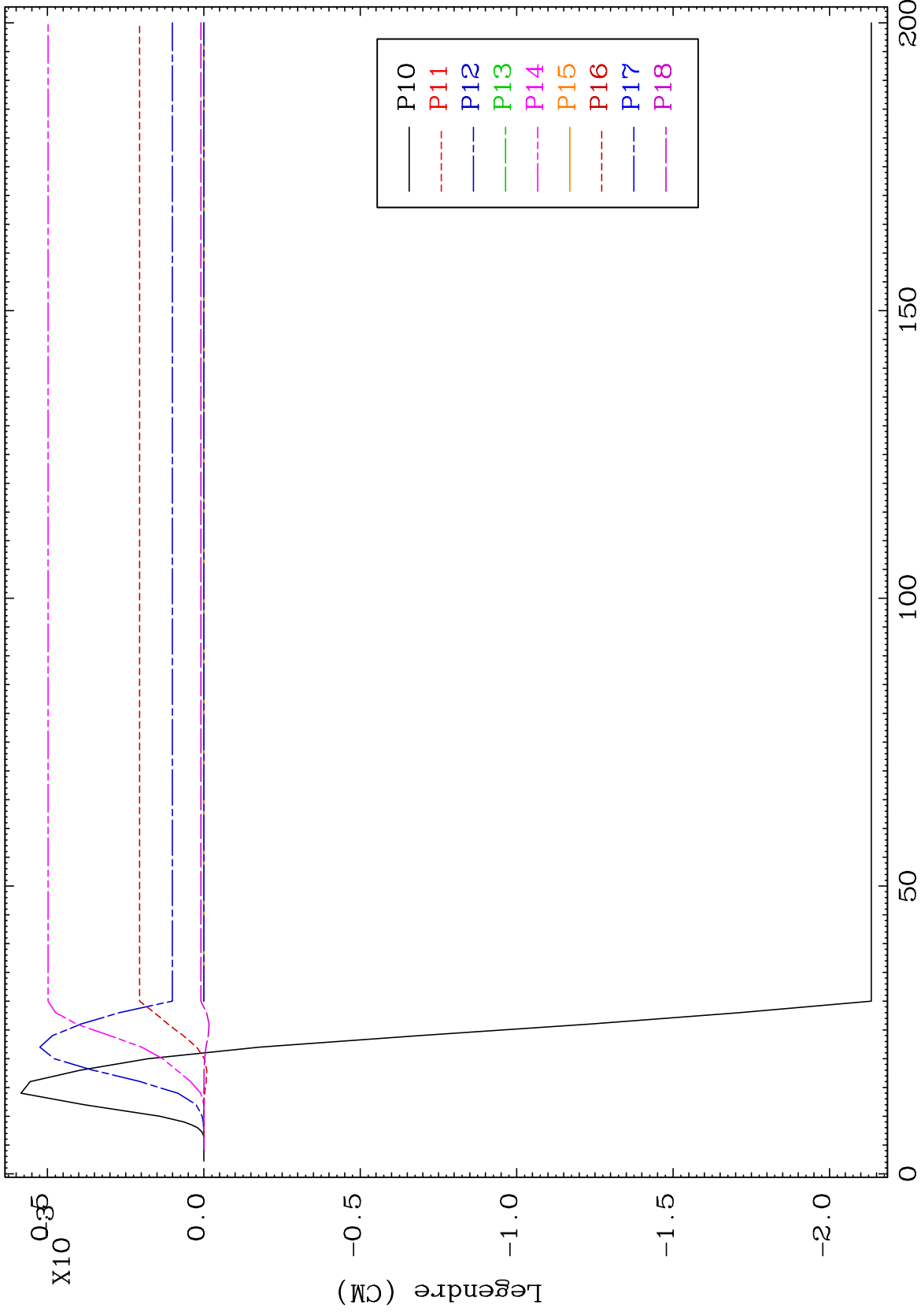




MAT 6422

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

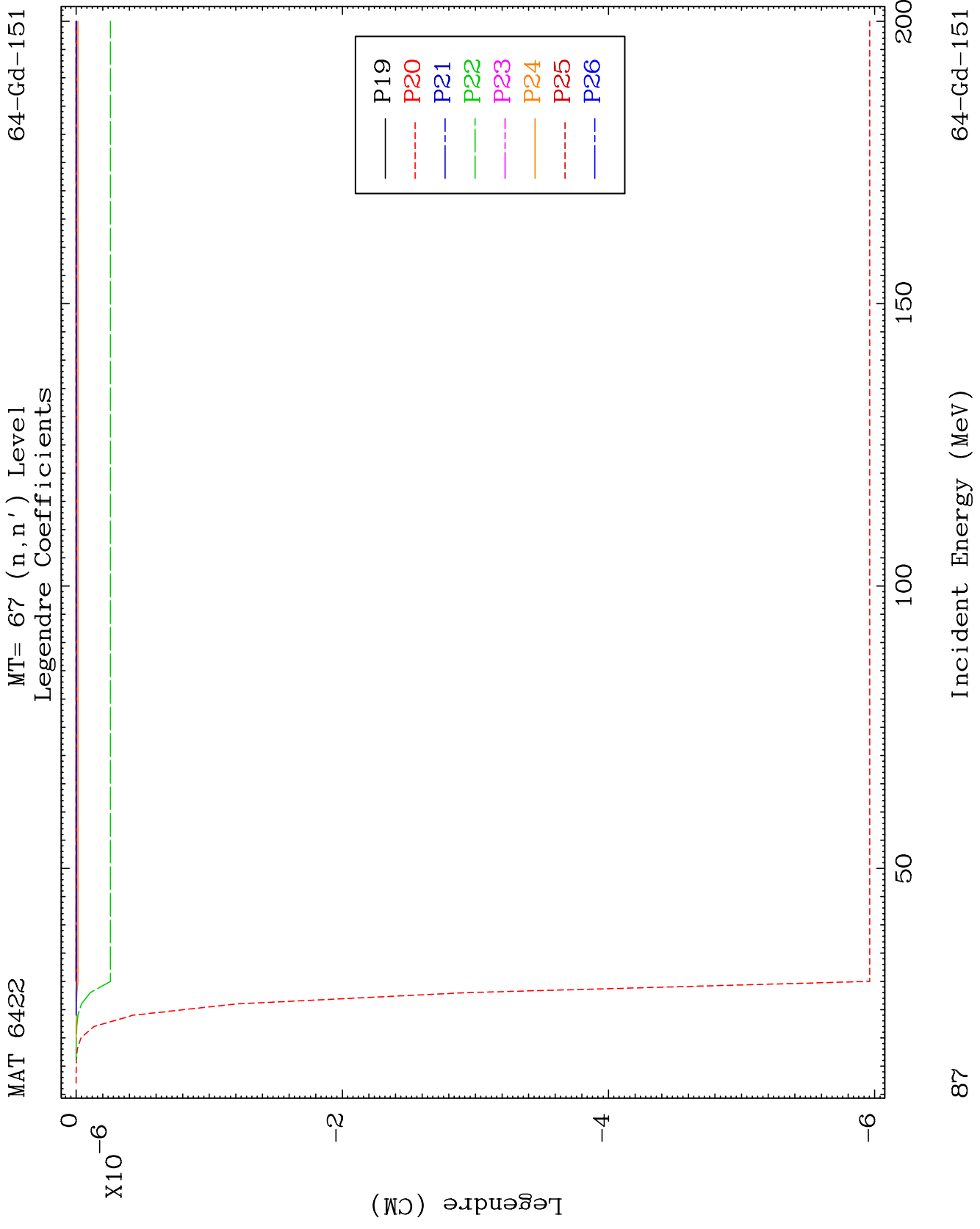
64-Gd-151



86

Incident Energy (MeV)

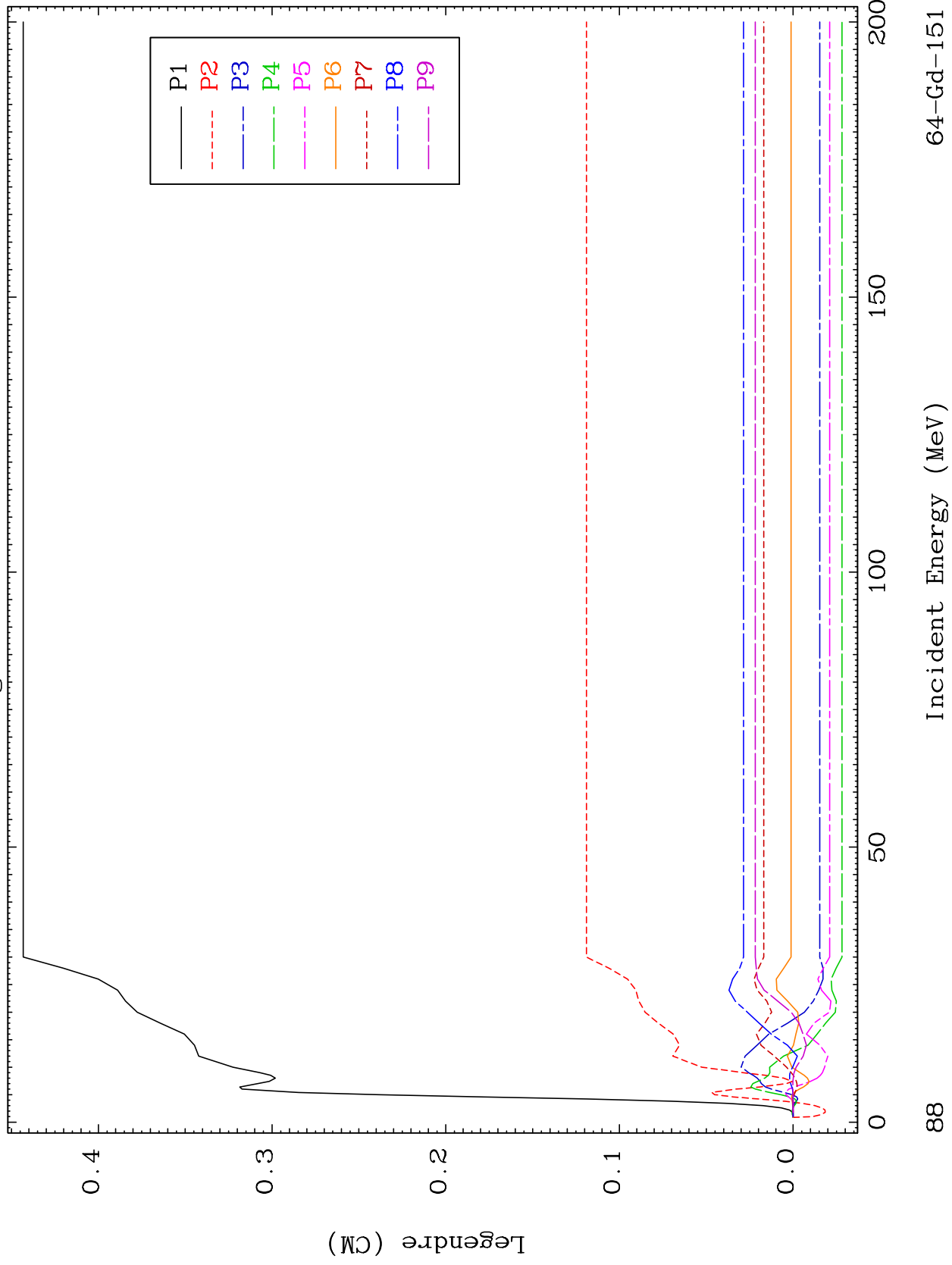
64-Gd-151



MAT 6422

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

64-Gd-151



64-Gd-151

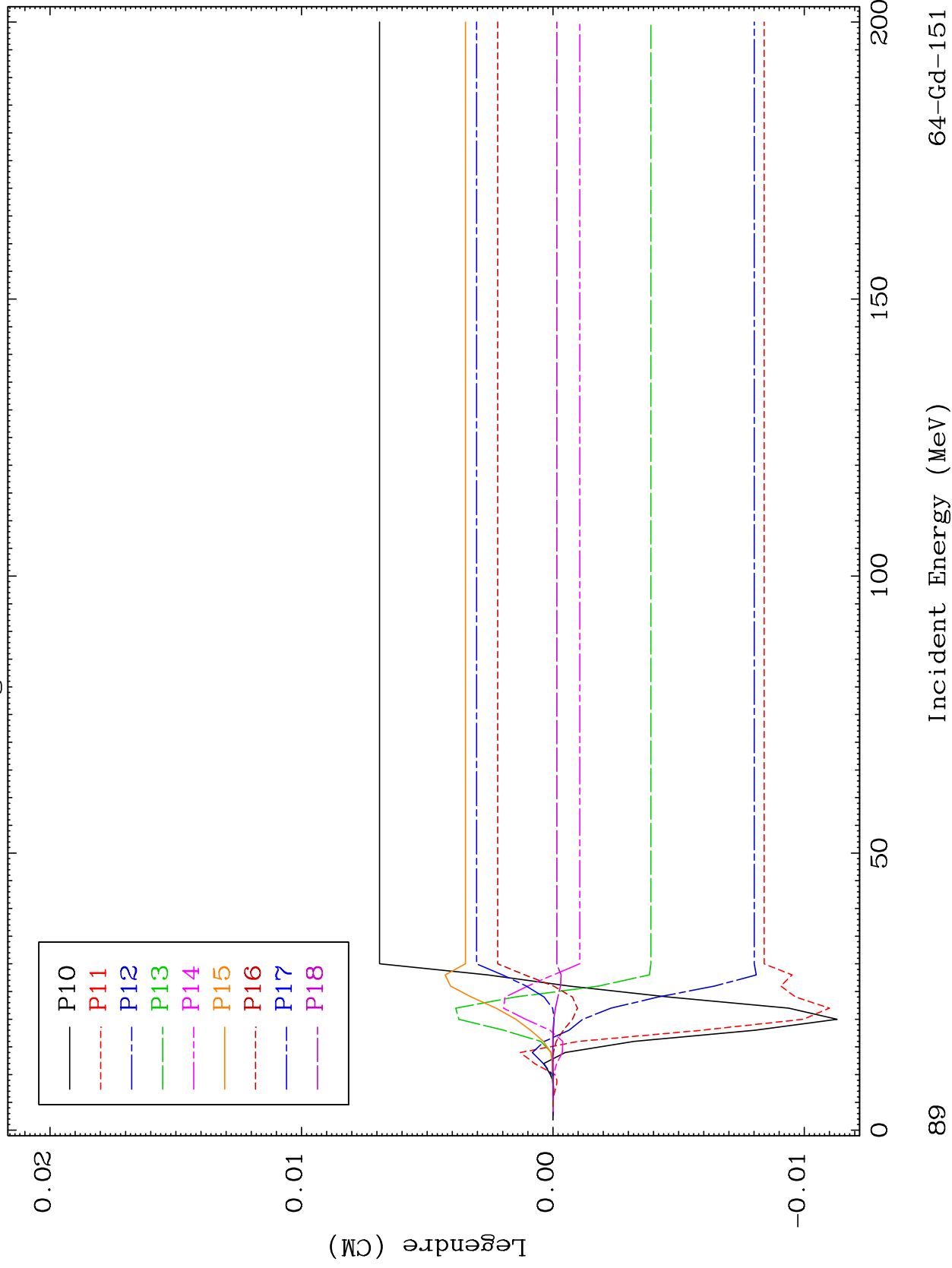
Incident Energy (MeV)

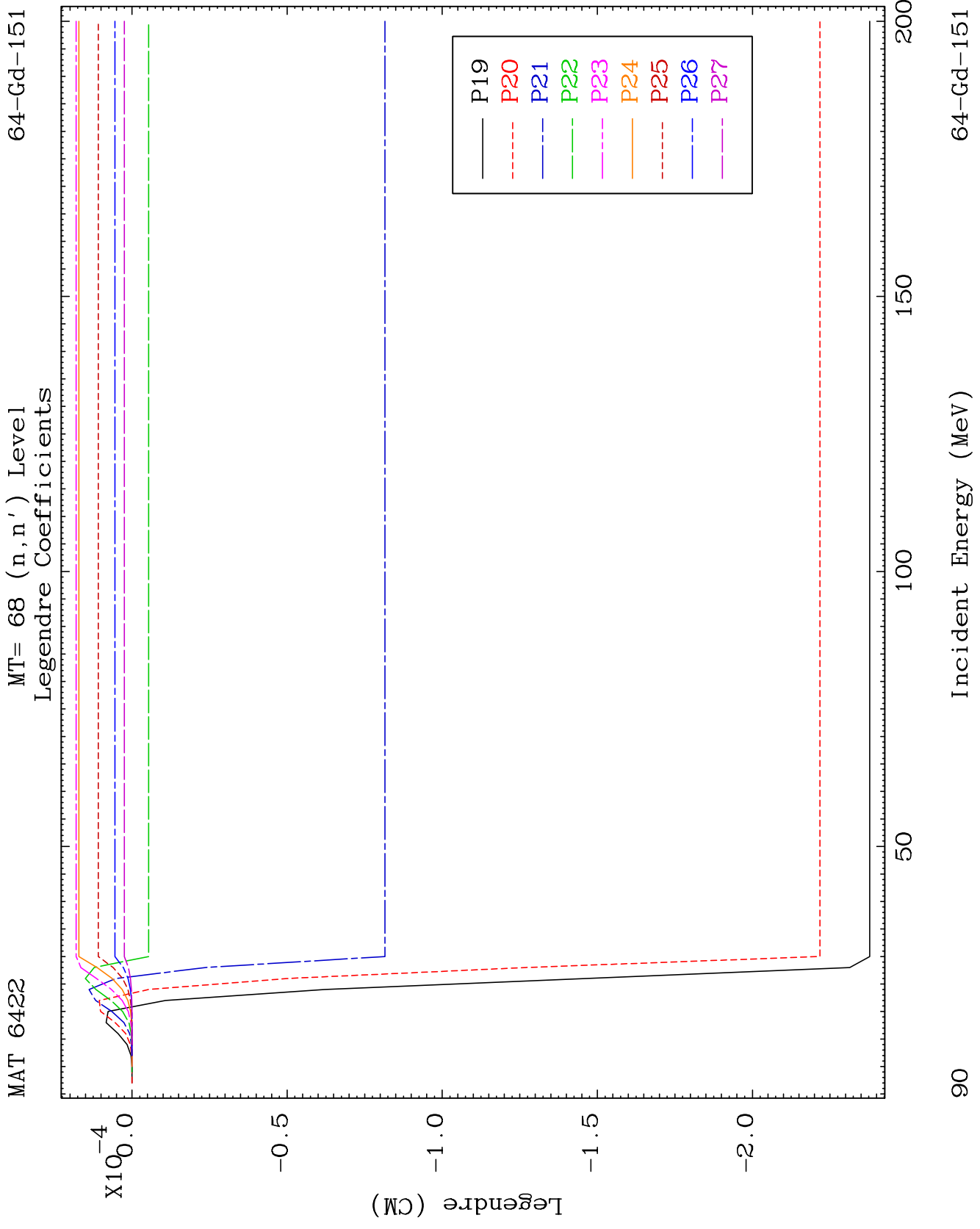
88

MAT 6422

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

64-Gd-151

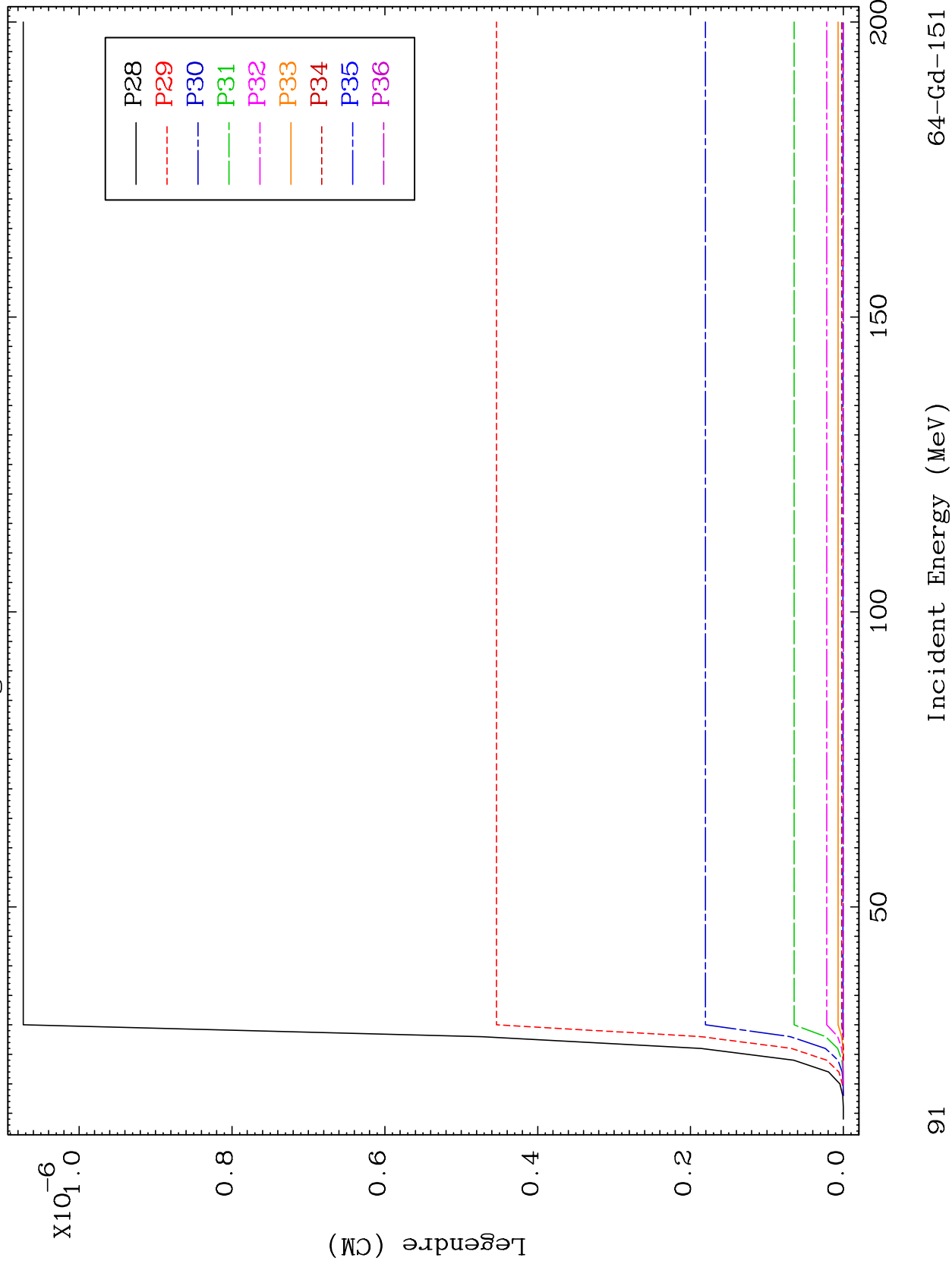




MAT 6422

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

64-Gd-151



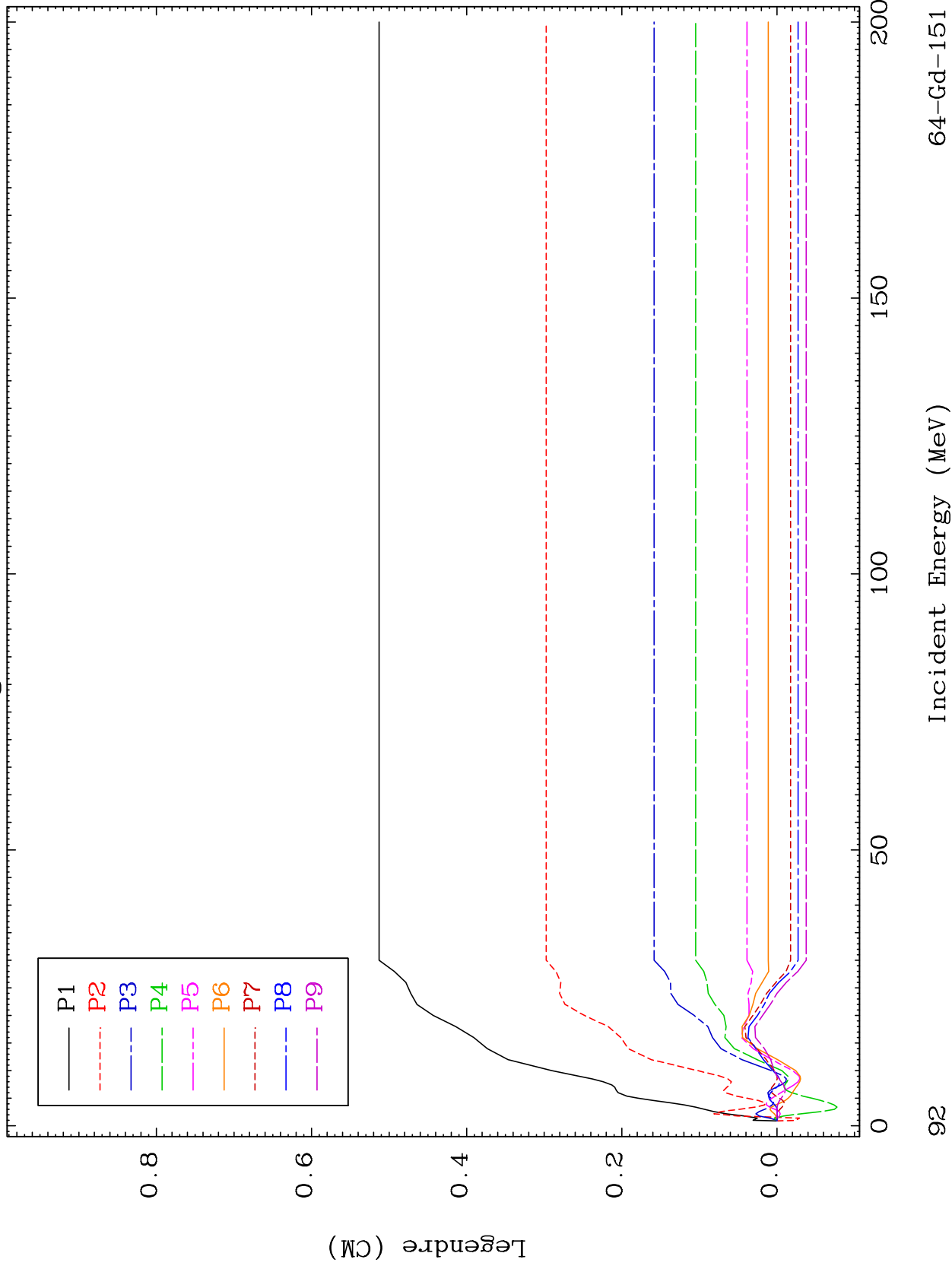
91

64-Gd-151

MAT 6422

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

64-Gd-151



64-Gd-151

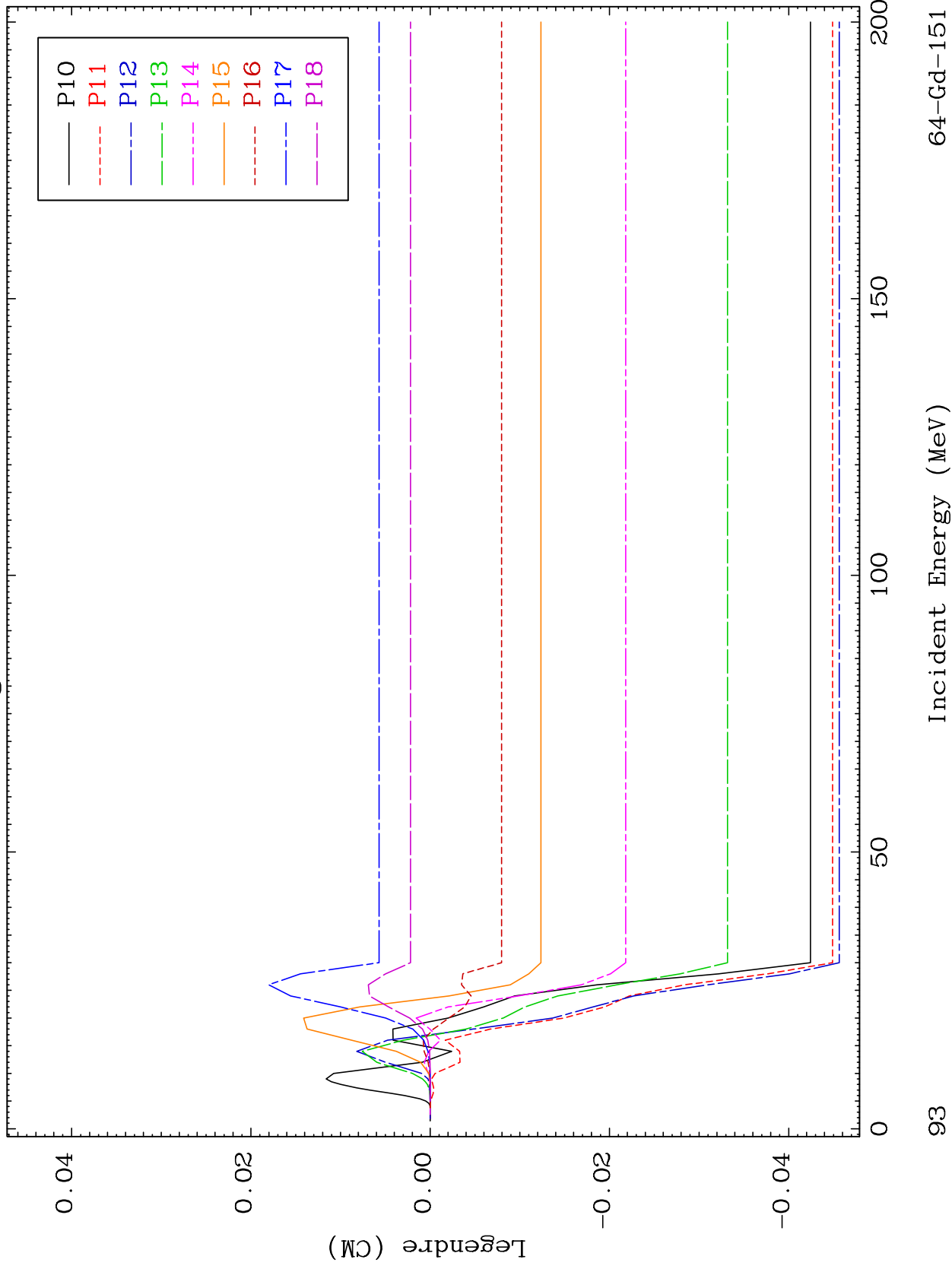
Incident Energy (MeV)

92

MAT 6422

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

64-Gd-151



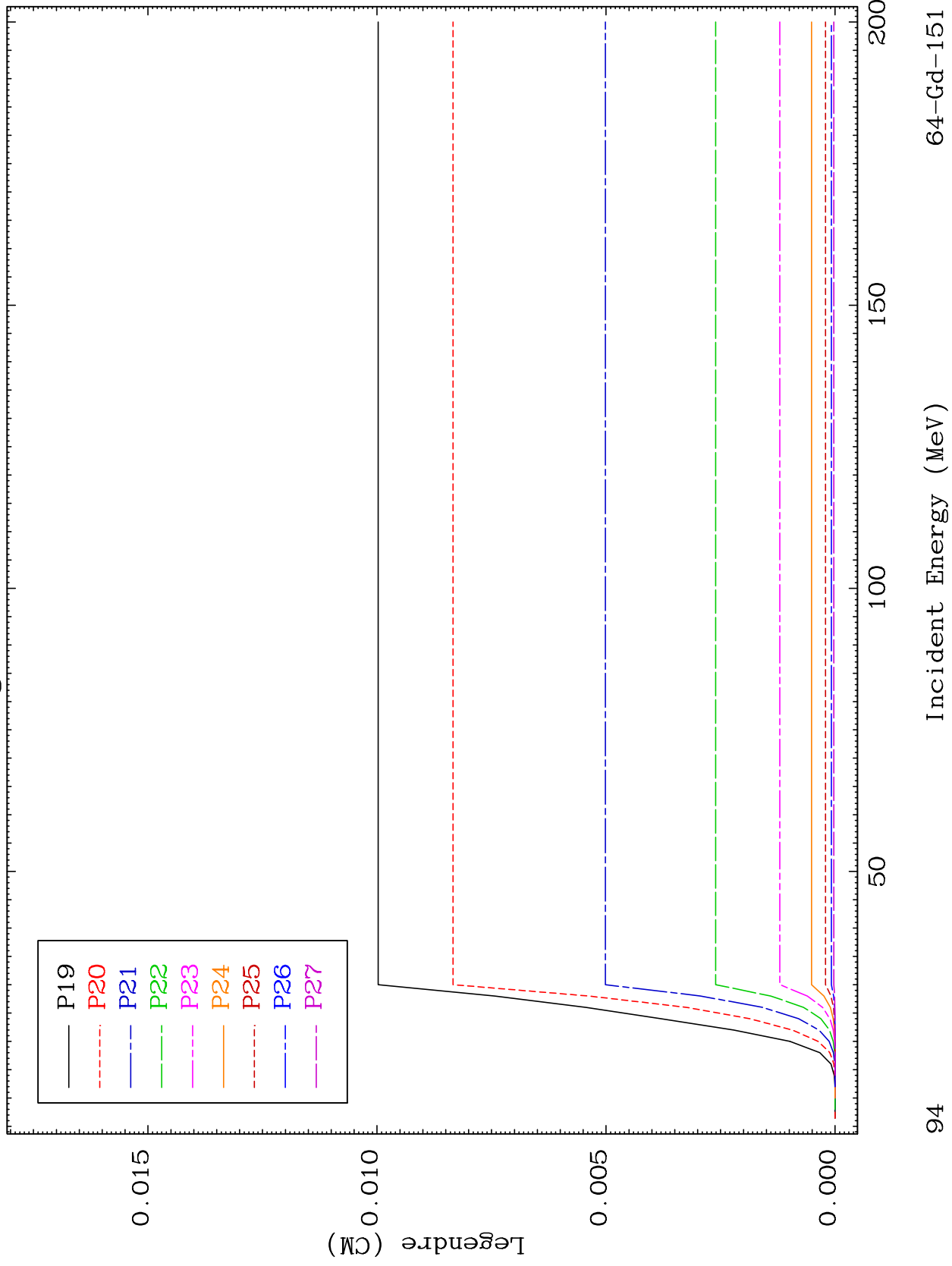
64-Gd-151

Incident Energy (MeV)

MAT 6422

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

64-Gd-151



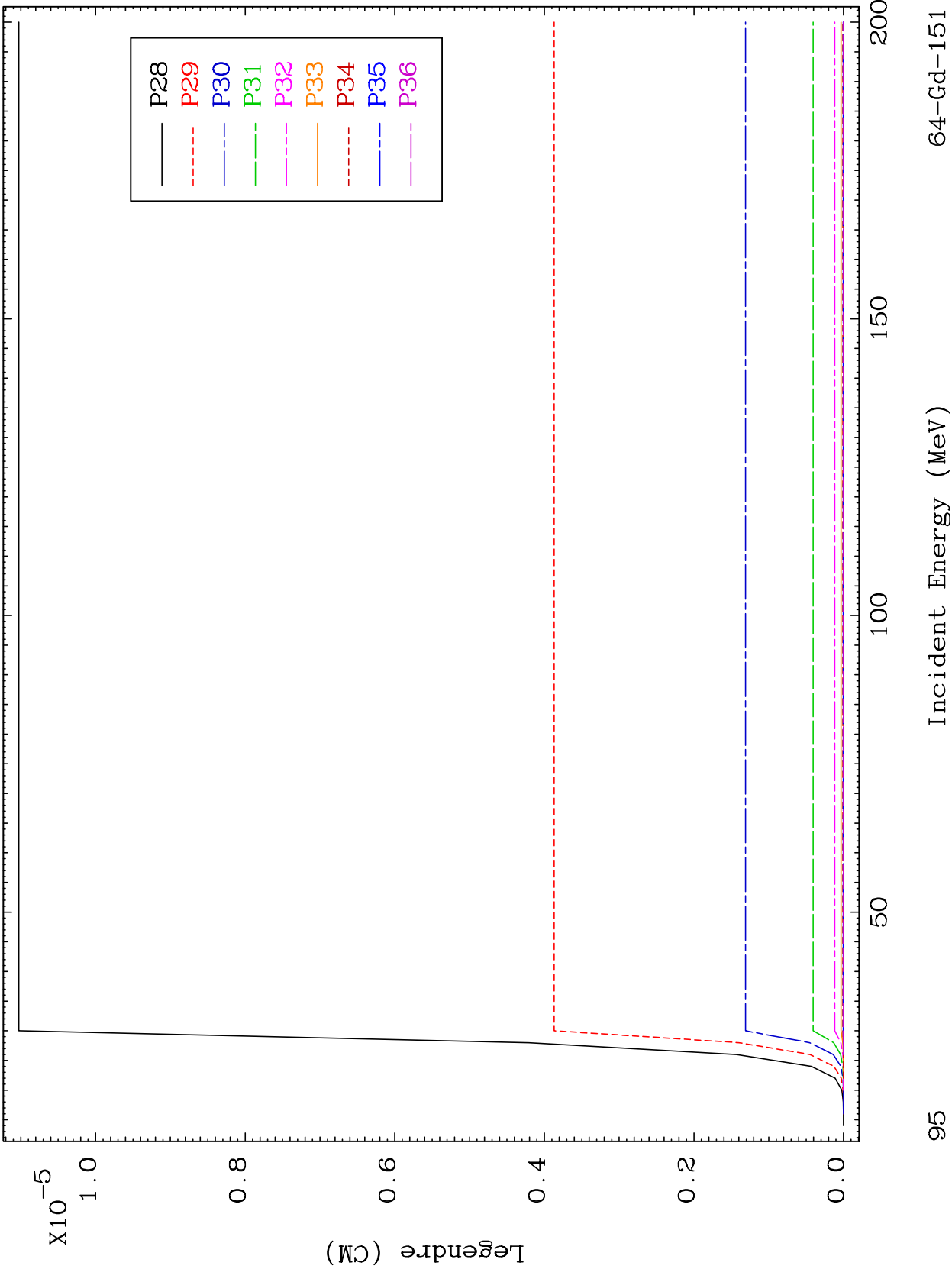
94

64-Gd-151

MAT 6422

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

64-Gd-151



95

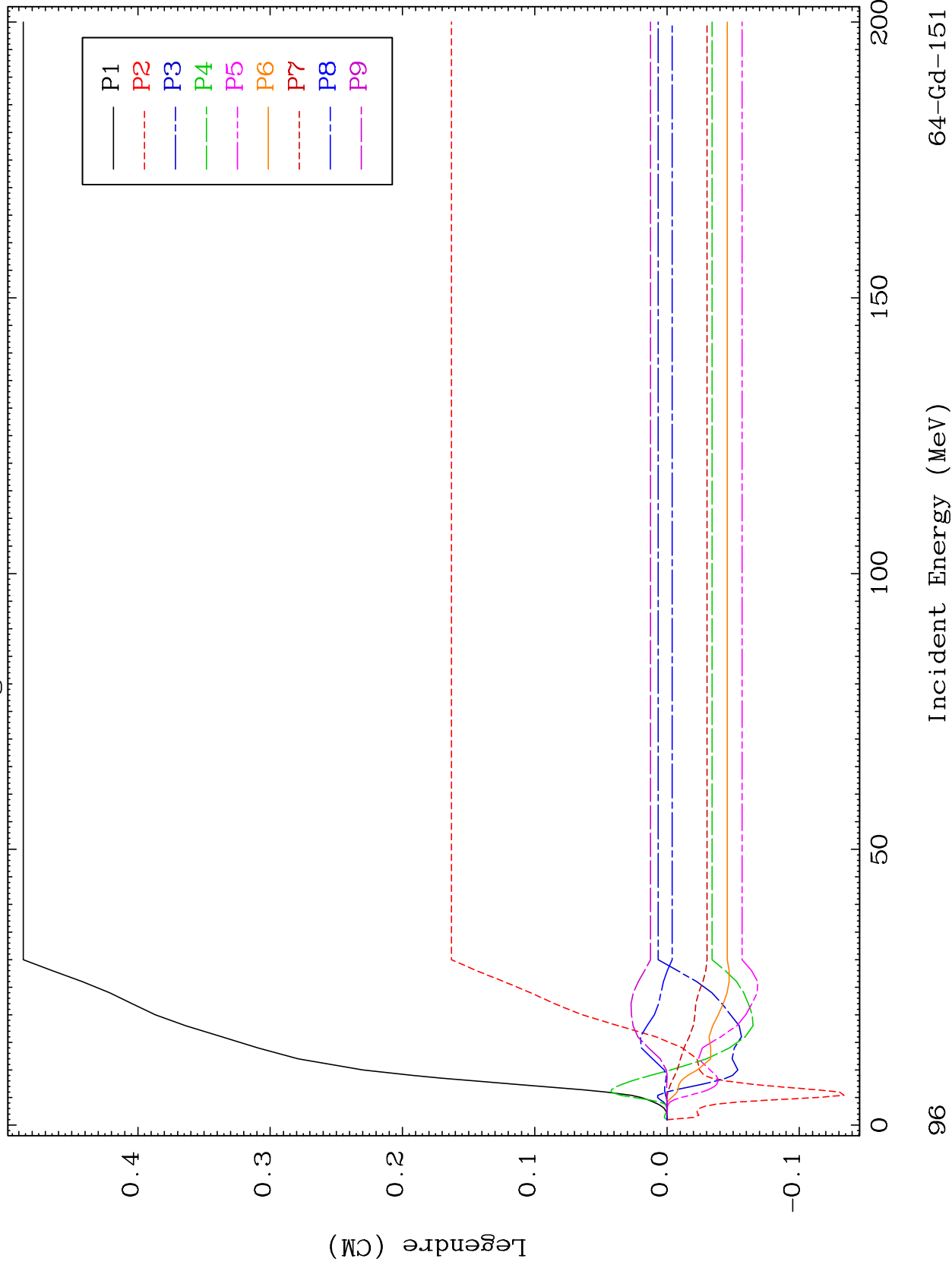
Incident Energy (MeV)

64-Gd-151

MAT 6422

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

64-Gd-151



64-Gd-151

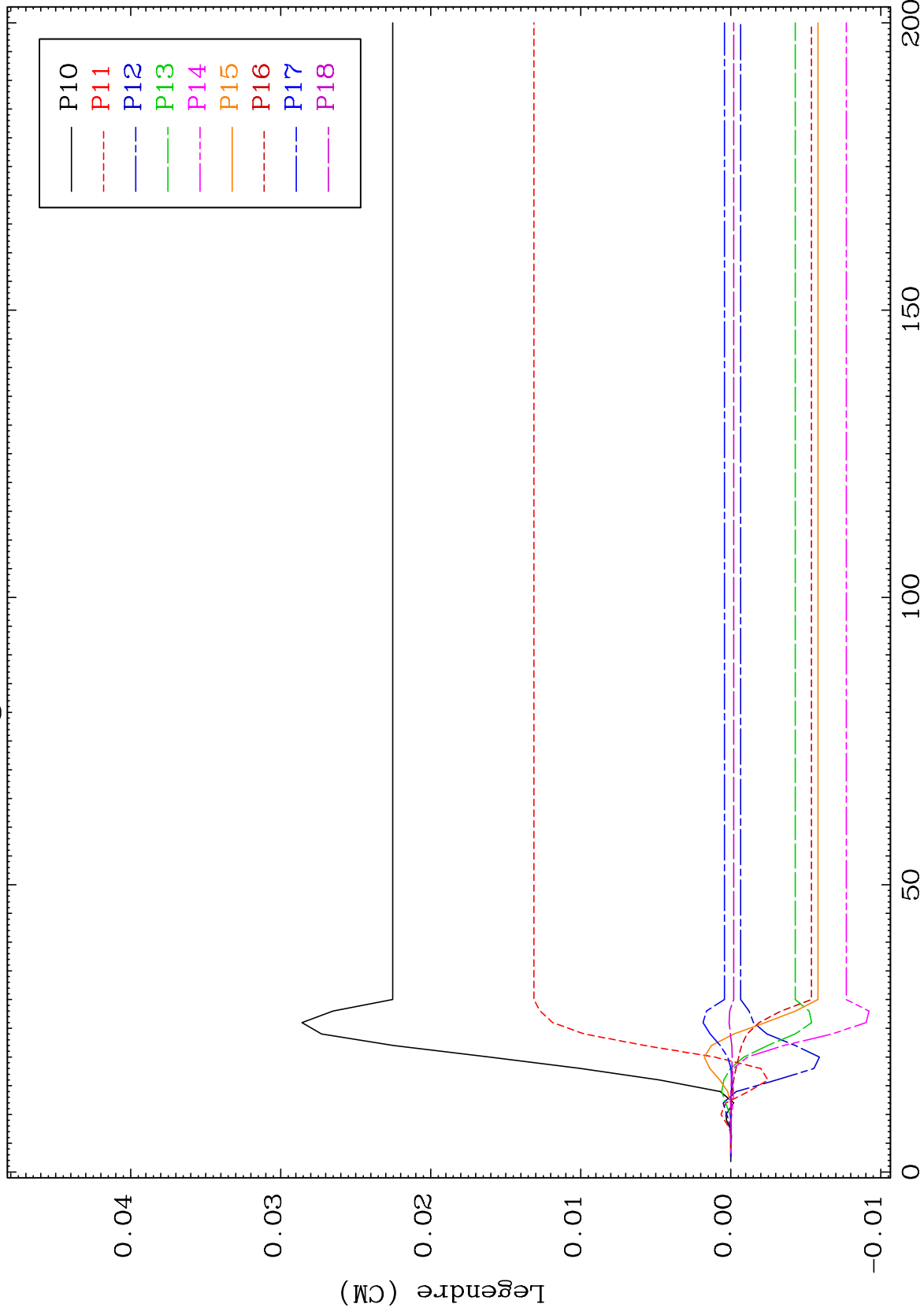
Incident Energy (MeV)

96

MAT 6422

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

64-Gd-151



97

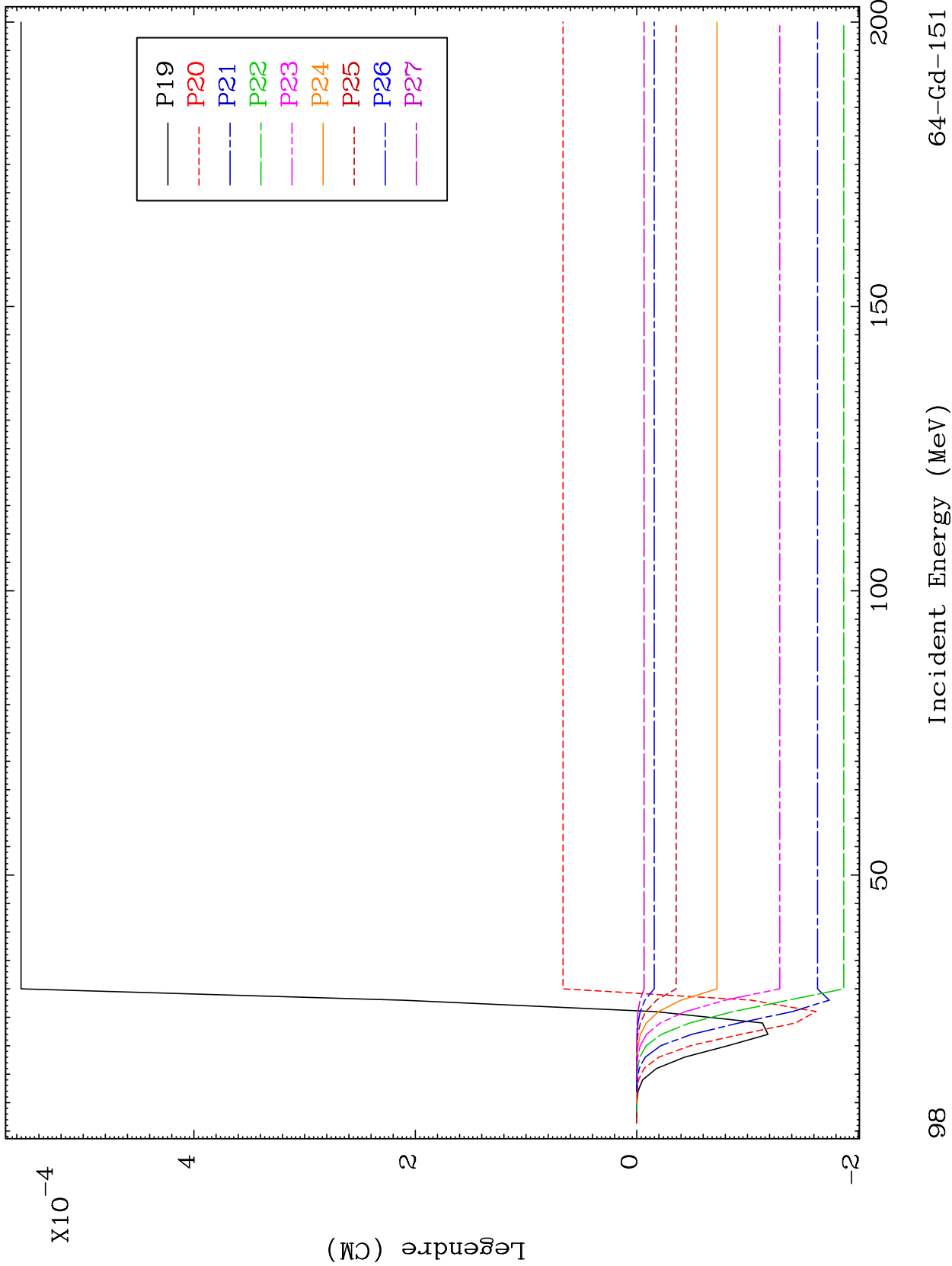
Incident Energy (MeV)

64-Gd-151

MAT 6422

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

64-Gd-151

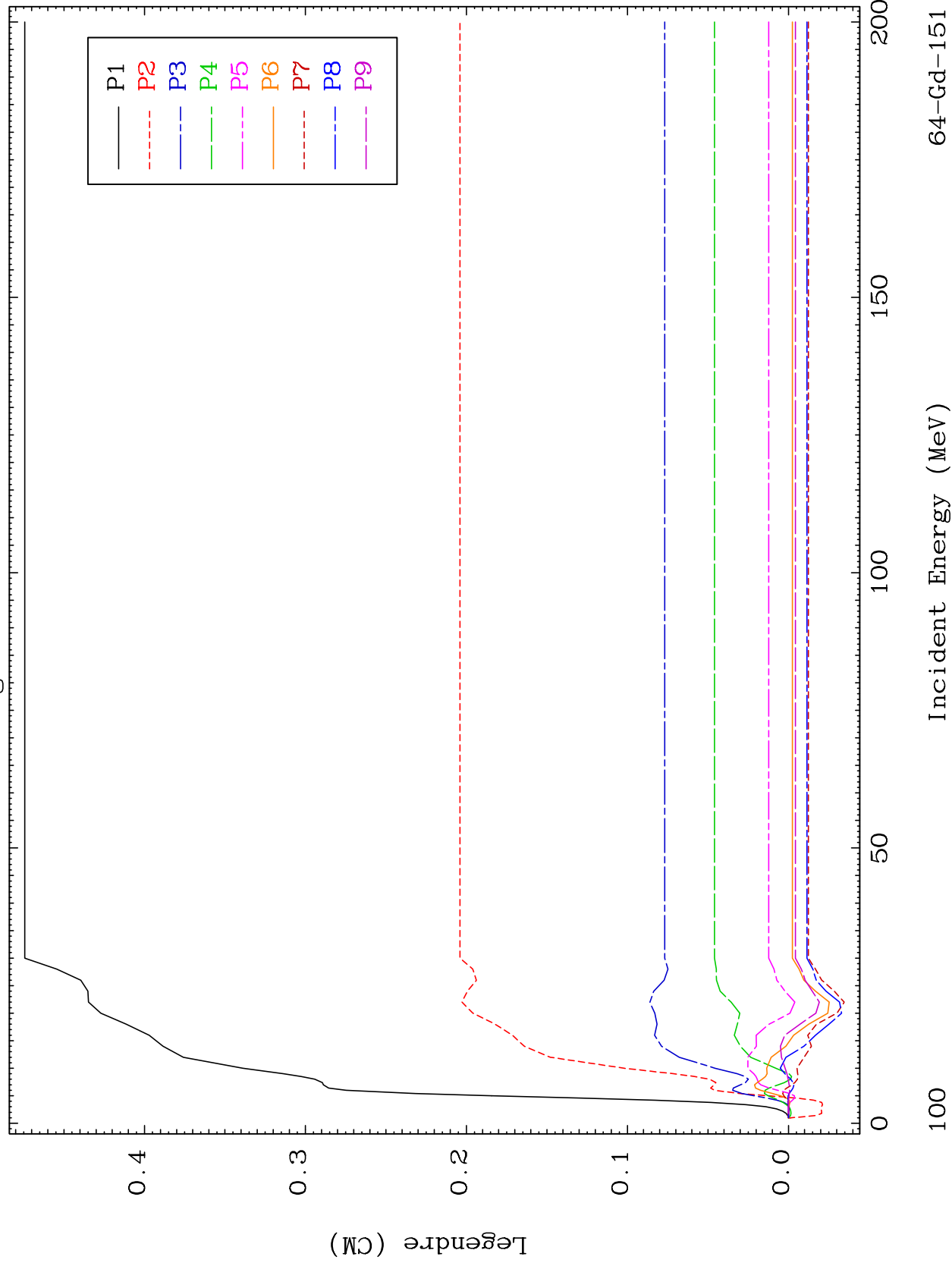




MAT 6422

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

64-Gd-151



64-Gd-151

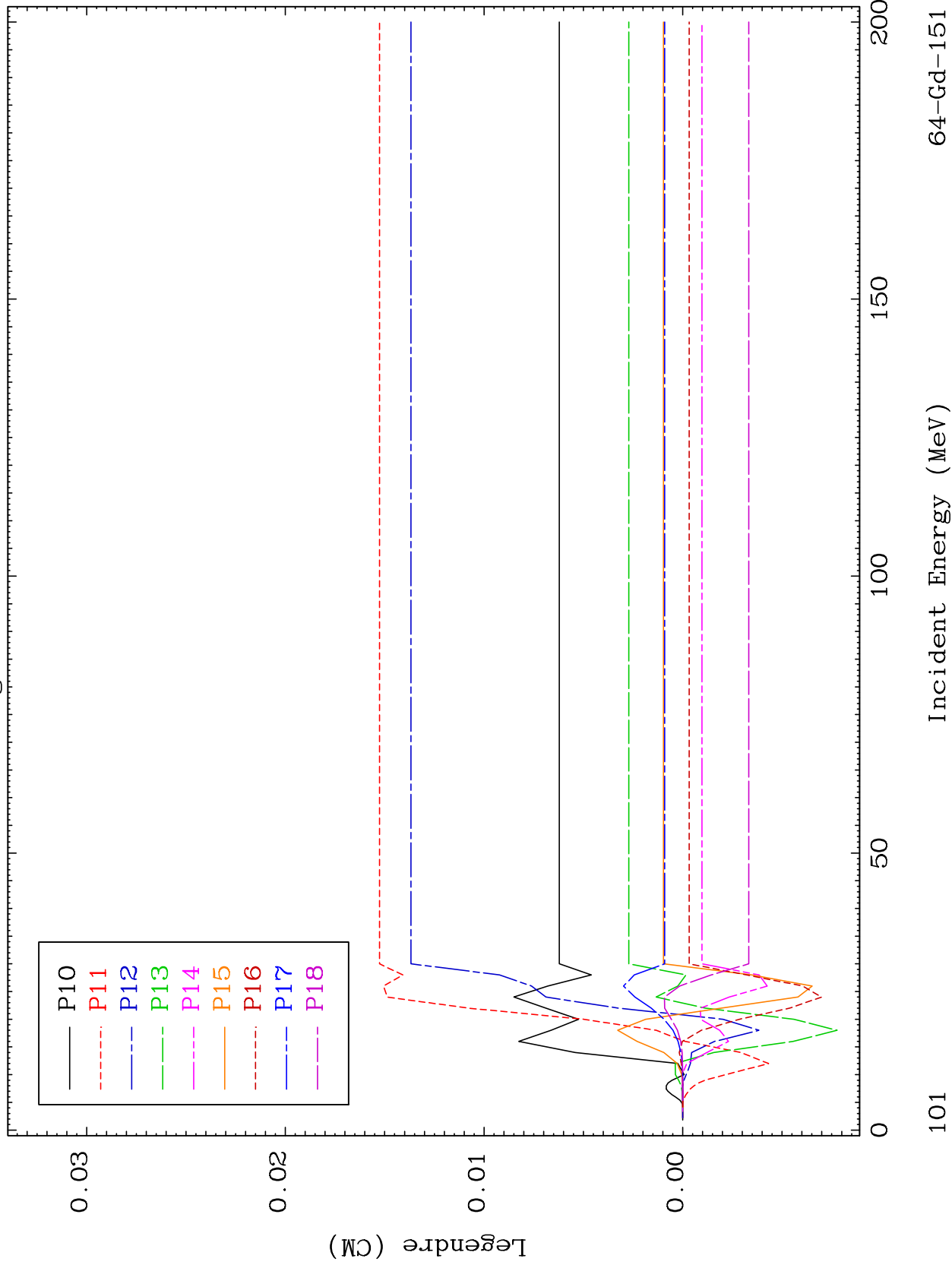
Incident Energy (MeV)

100

MAT 6422

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

64-Gd-151



64-Gd-151

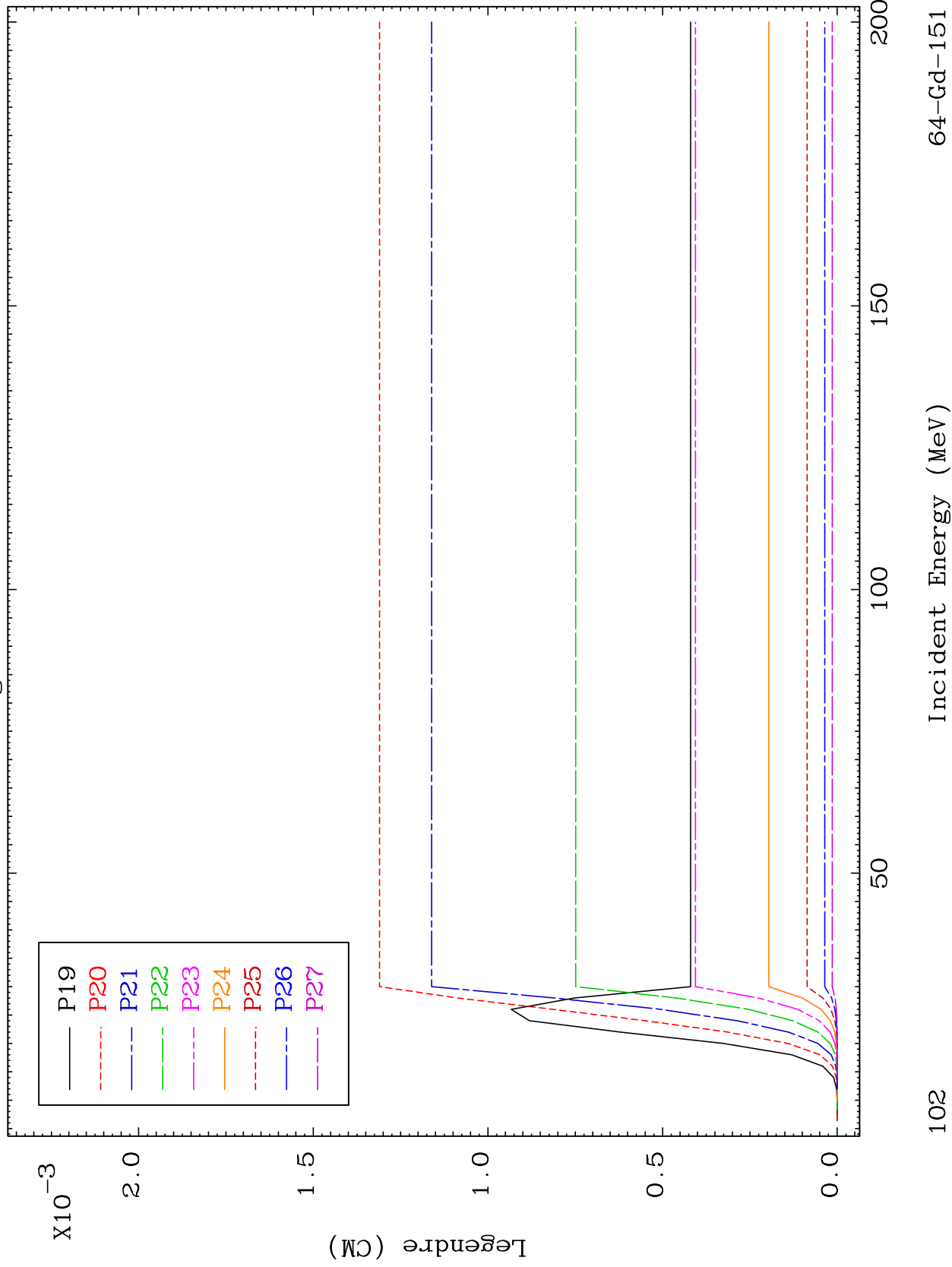
Incident Energy (MeV)

101

MAT 6422

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

64-Gd-151

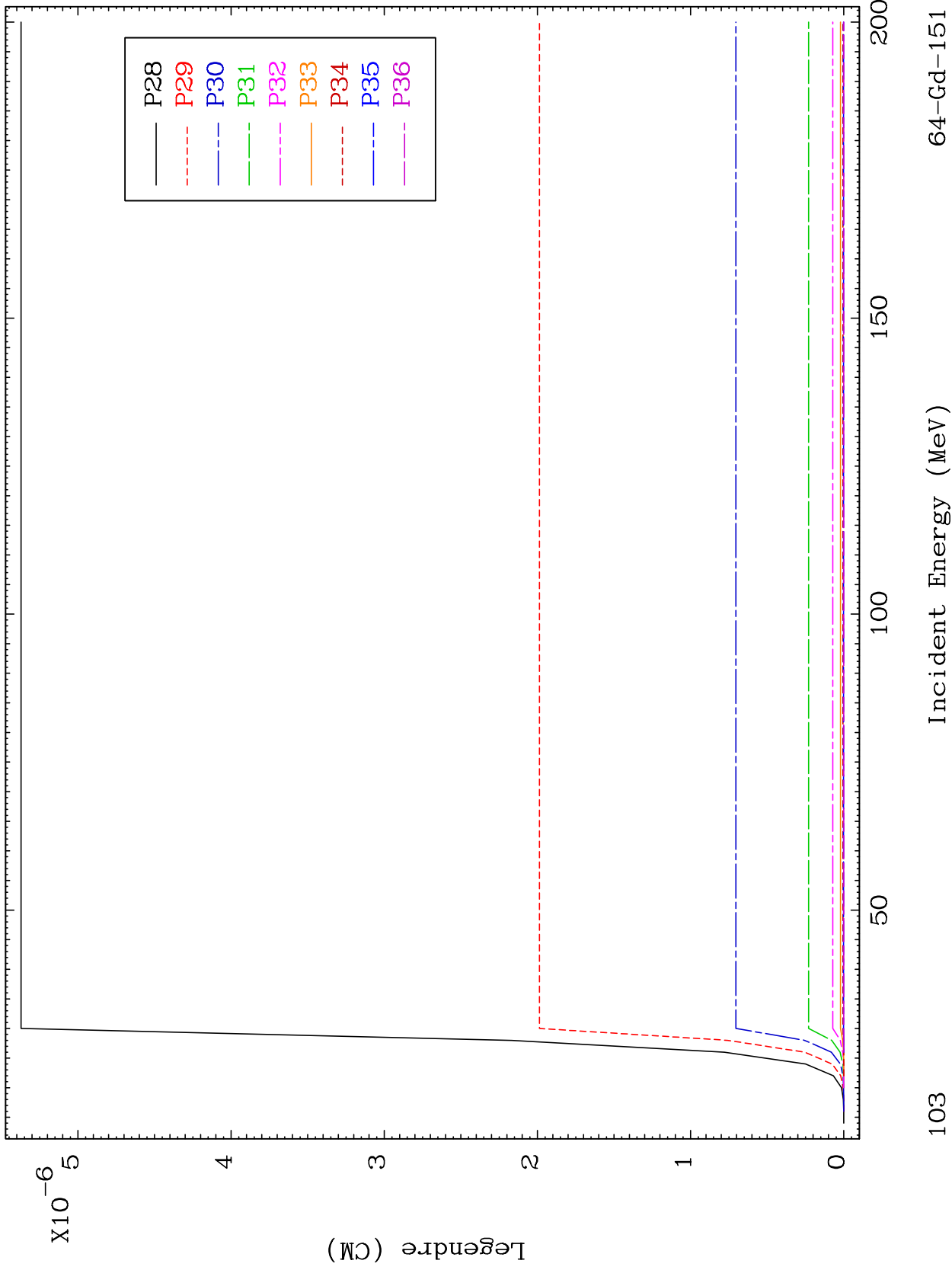


102

MAT 6422

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

64-Gd-151



103

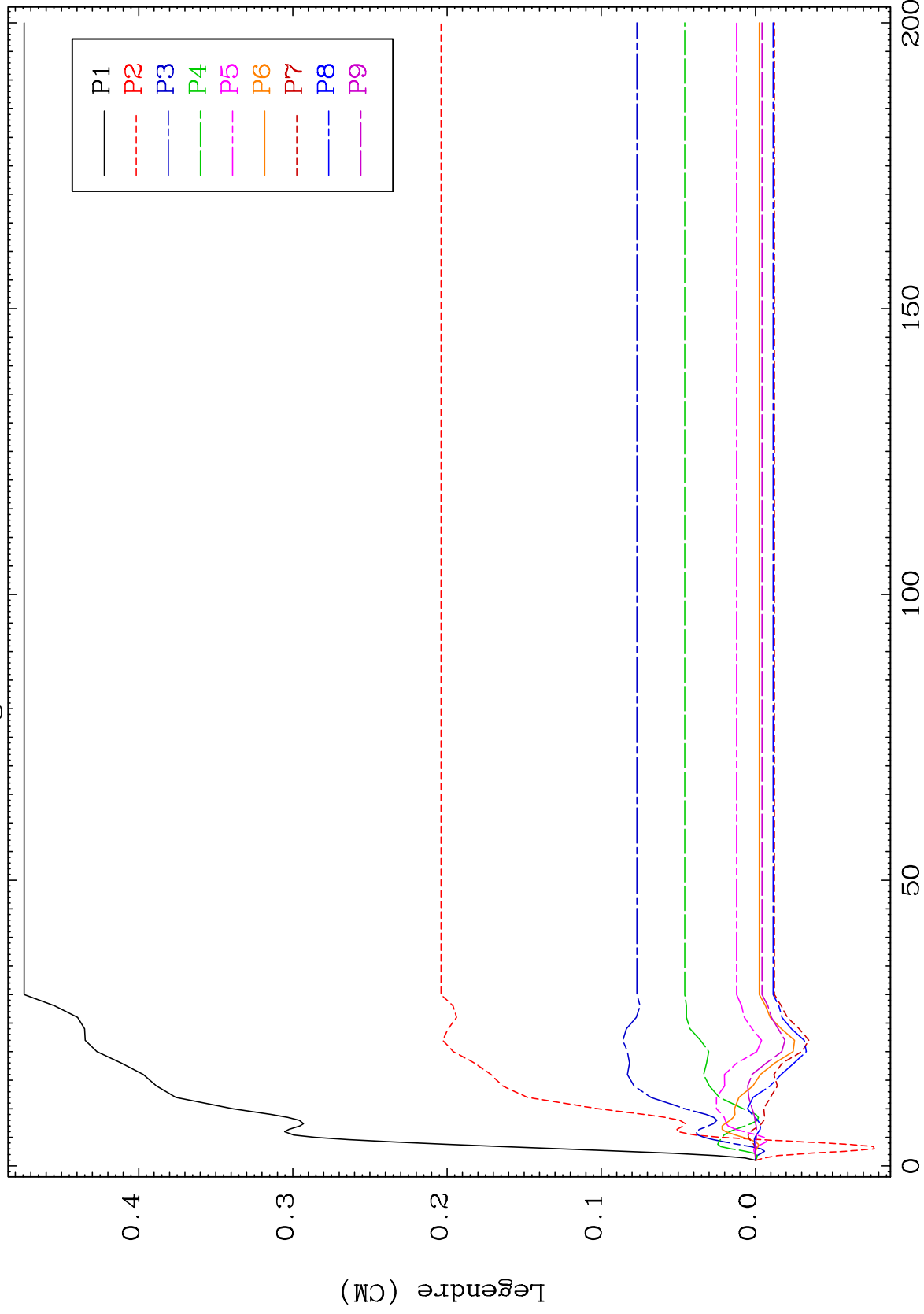
Incident Energy (MeV)

64-Gd-151

MAT 6422

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

64-Gd-151



104

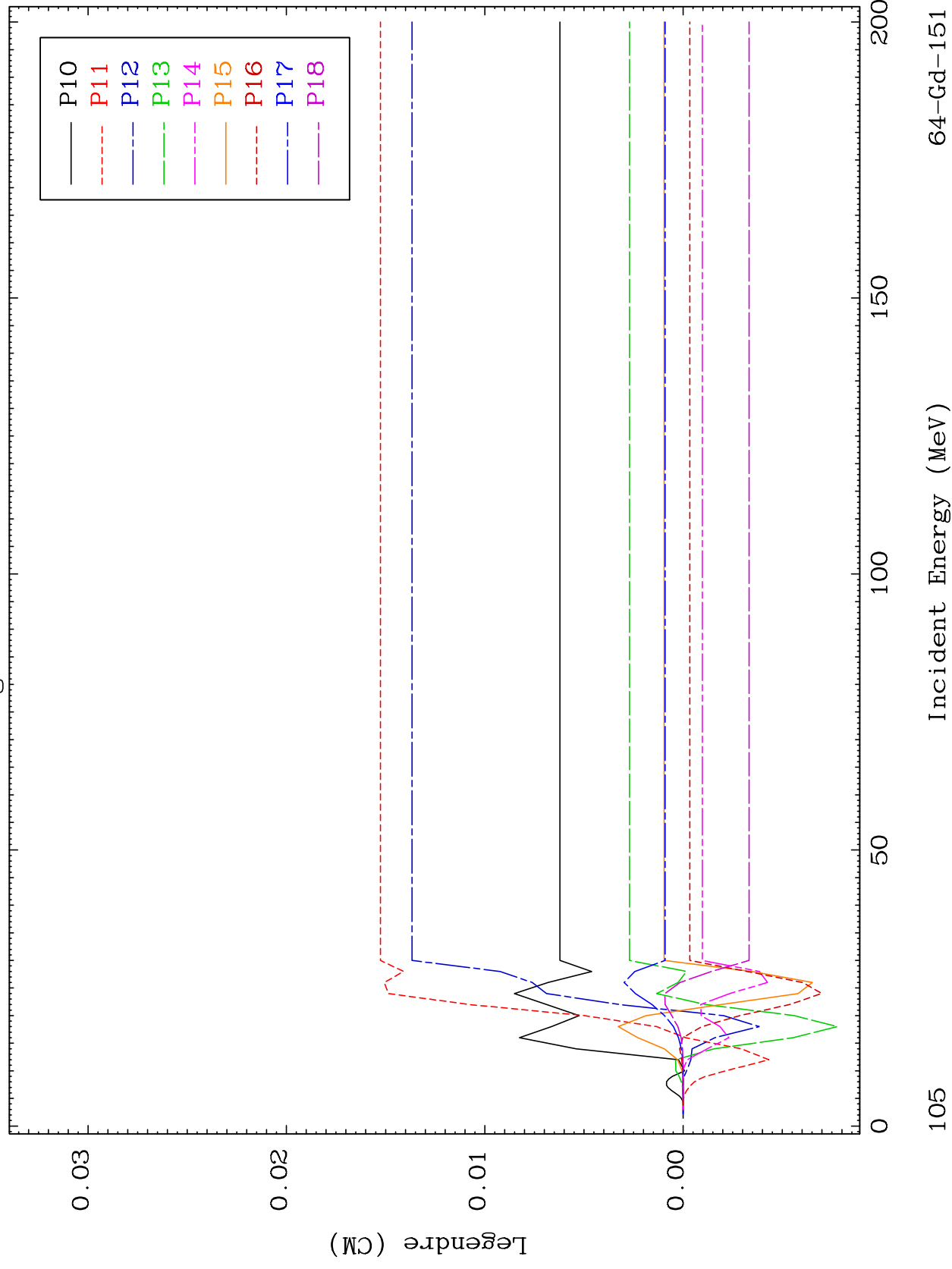
Incident Energy (MeV)

64-Gd-151

MAT 6422

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

64-Gd-151



64-Gd-151

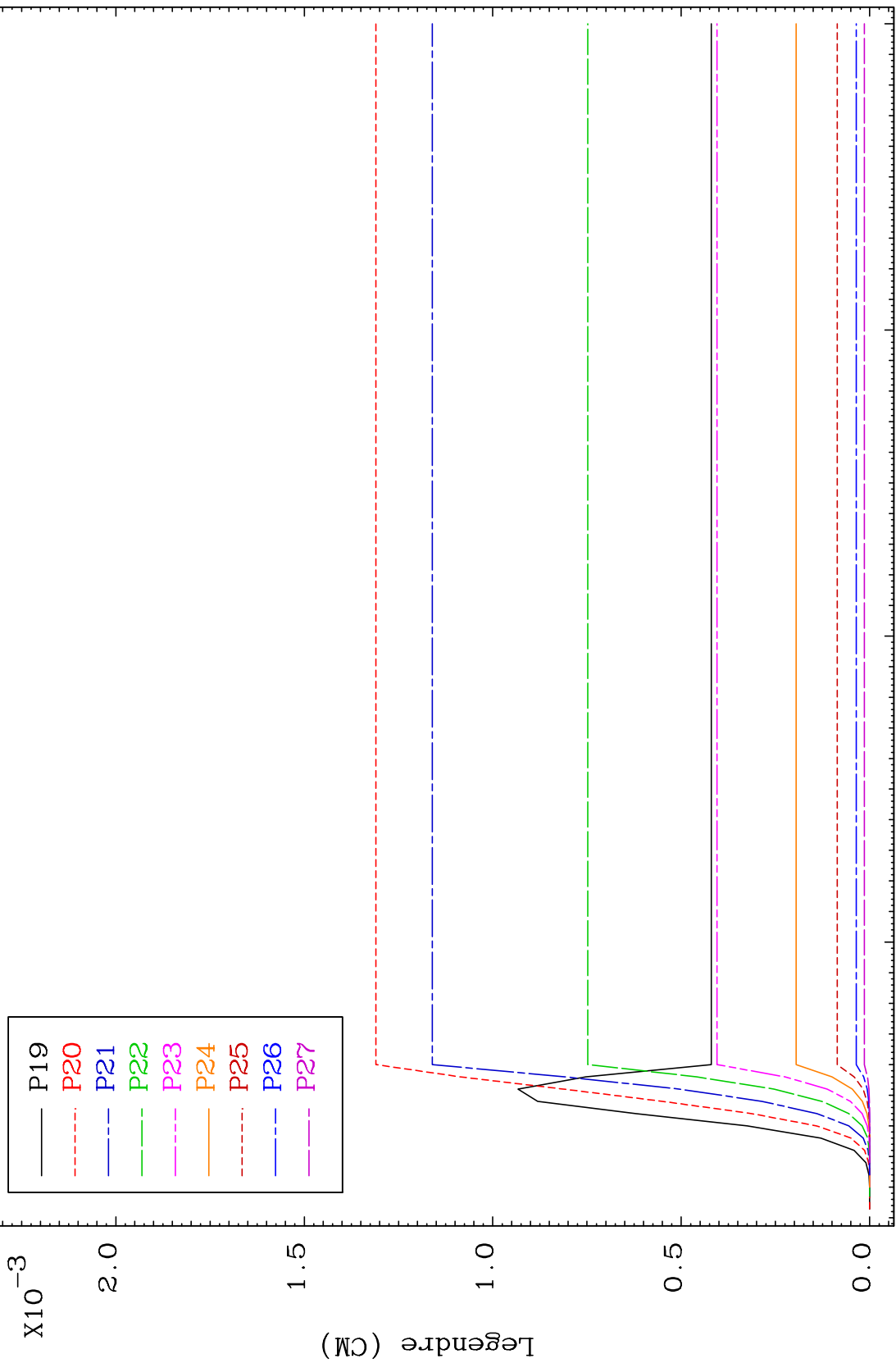
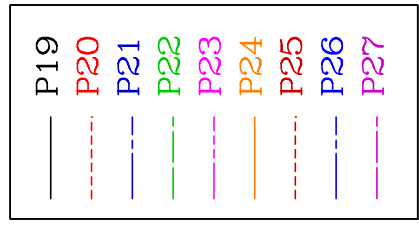
Incident Energy (MeV)

105

MAT 6422

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

64-Gd-151



106

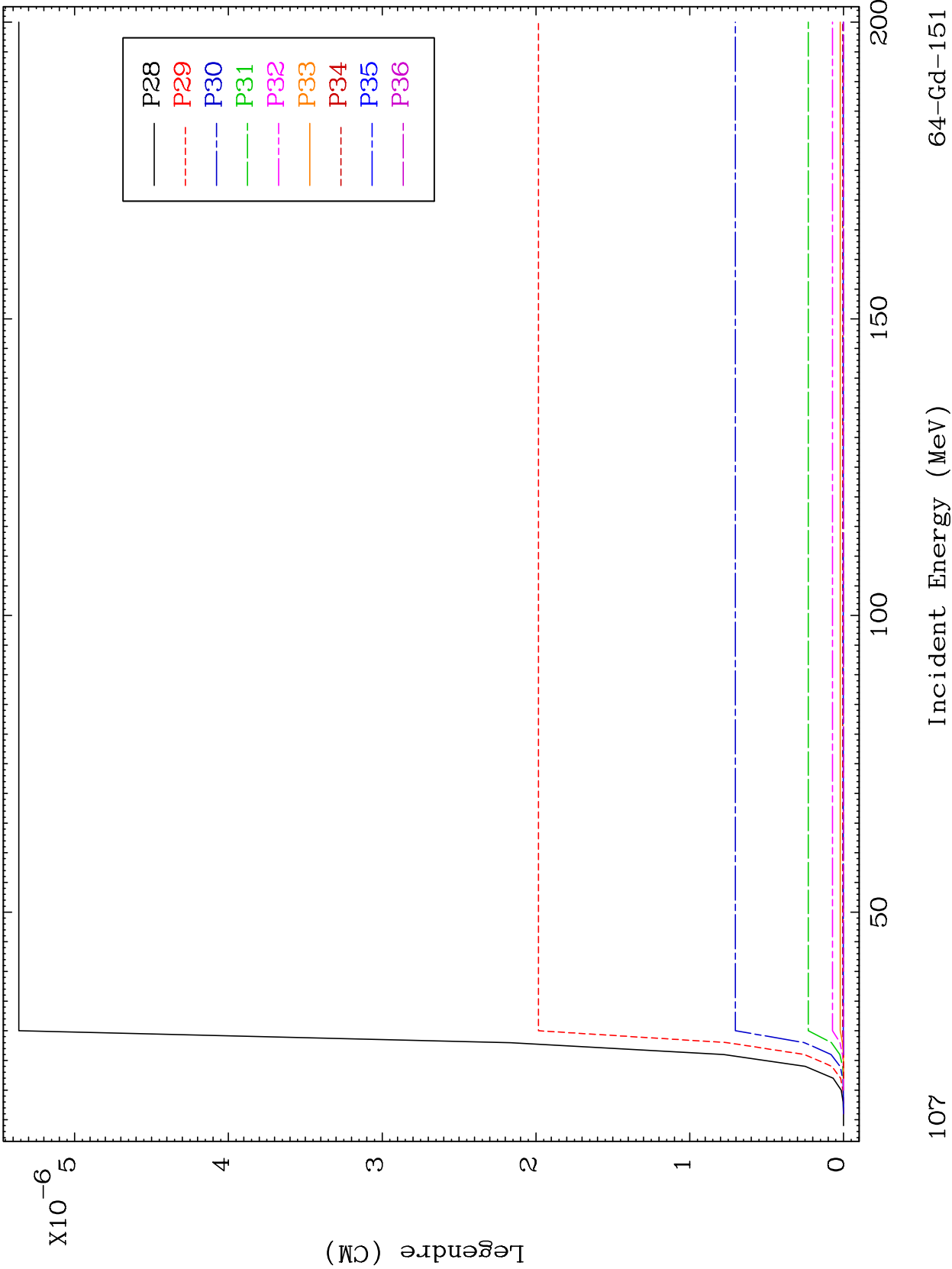
Incident Energy (MeV)

64-Gd-151

MAT 6422

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

64-Gd-151



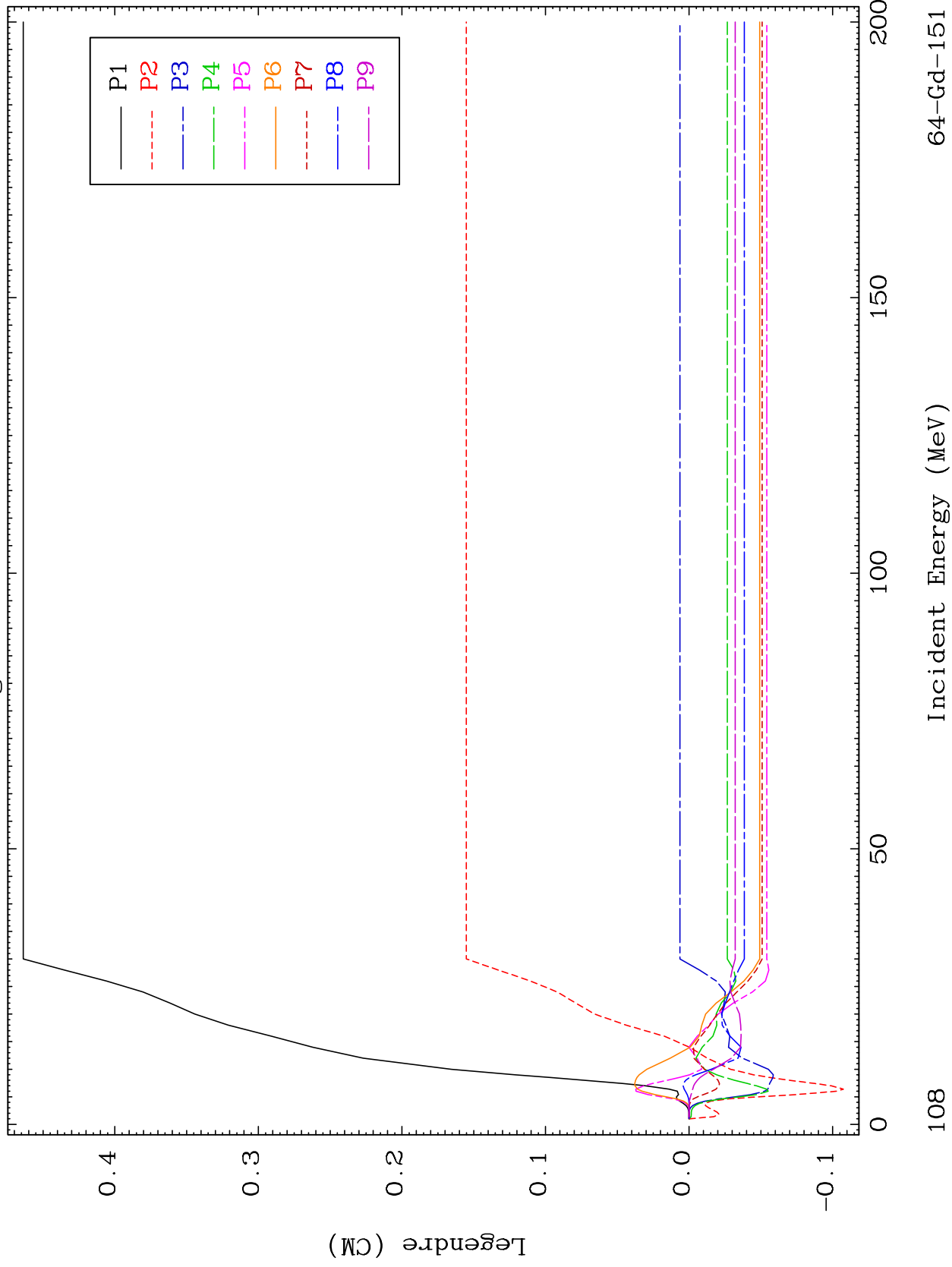
107

64-Gd-151

MAT 6422

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

64-Gd-151



64-Gd-151

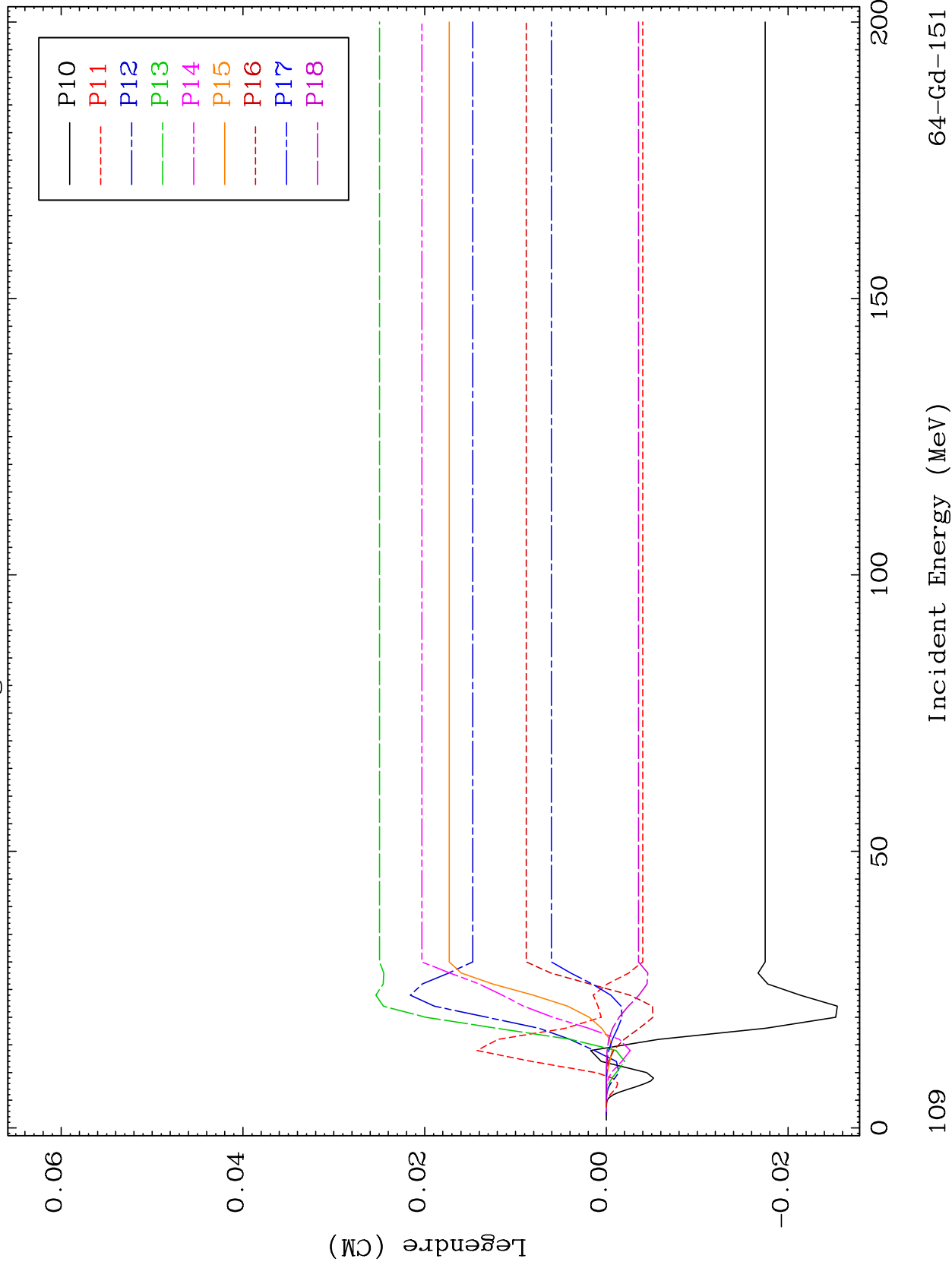
Incident Energy (MeV)

108

MAT 6422

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

64-Gd-151



109

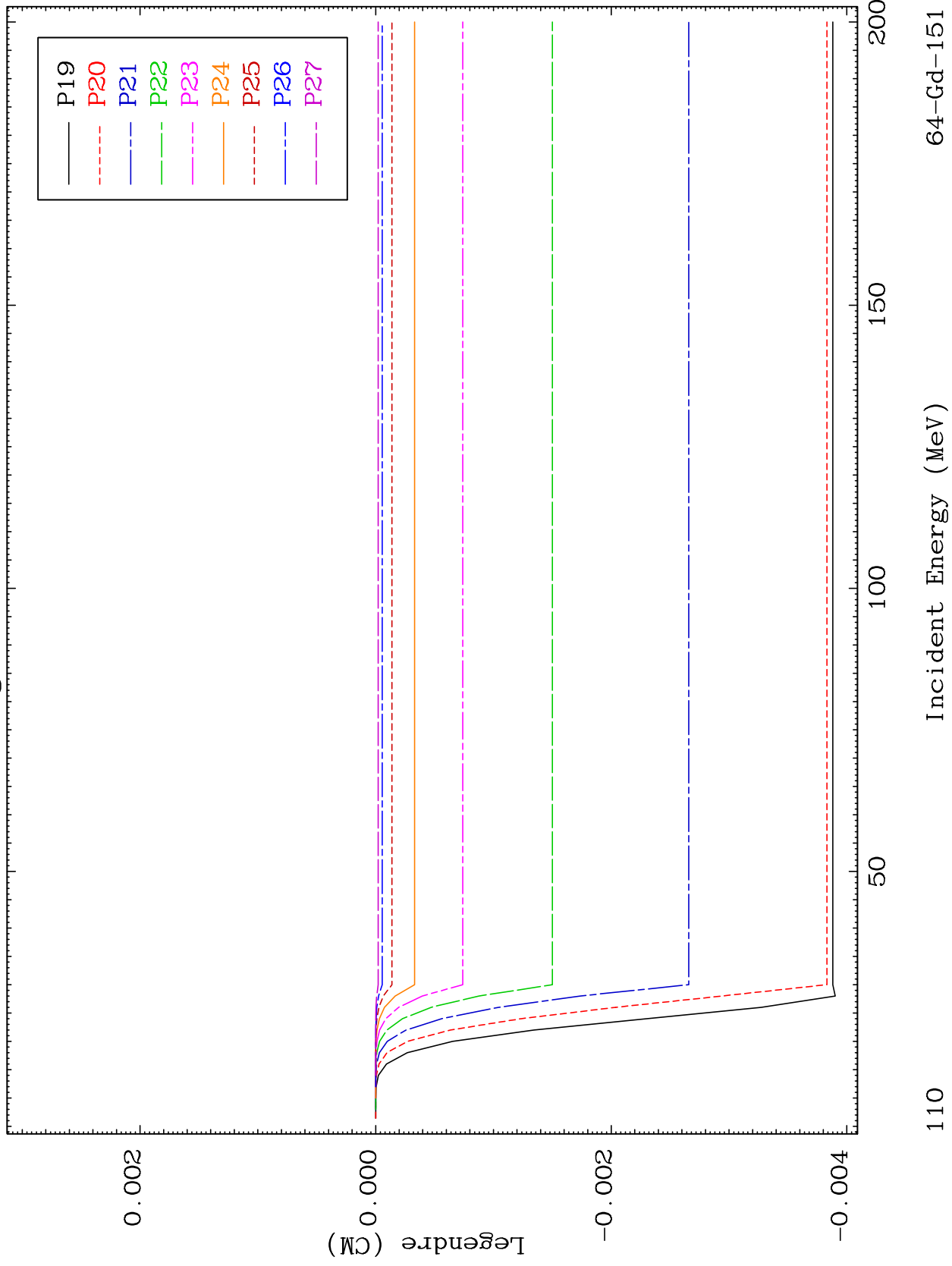
Incident Energy (MeV)

64-Gd-151

MAT 6422

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

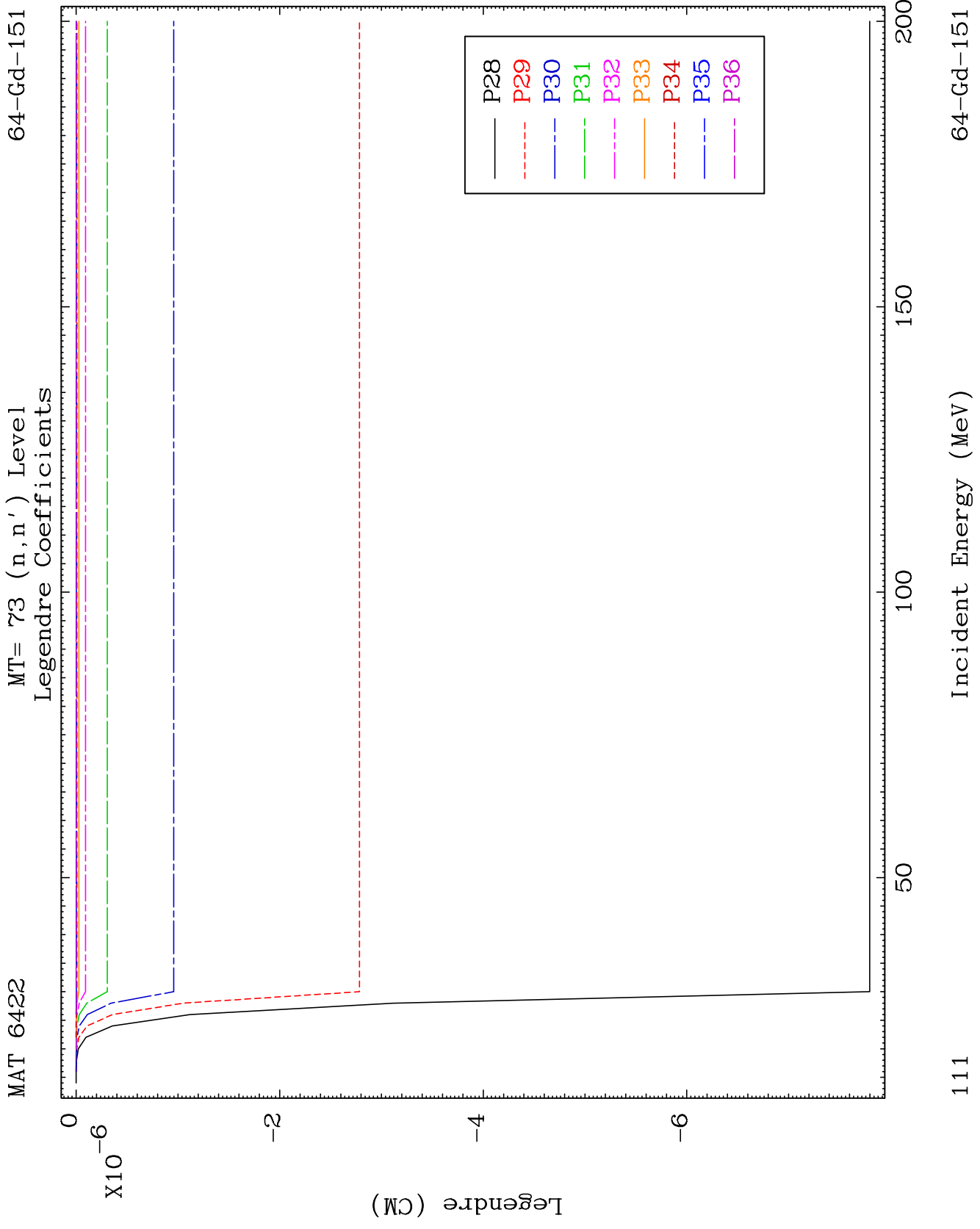
64-Gd-151



110

Incident Energy (MeV)

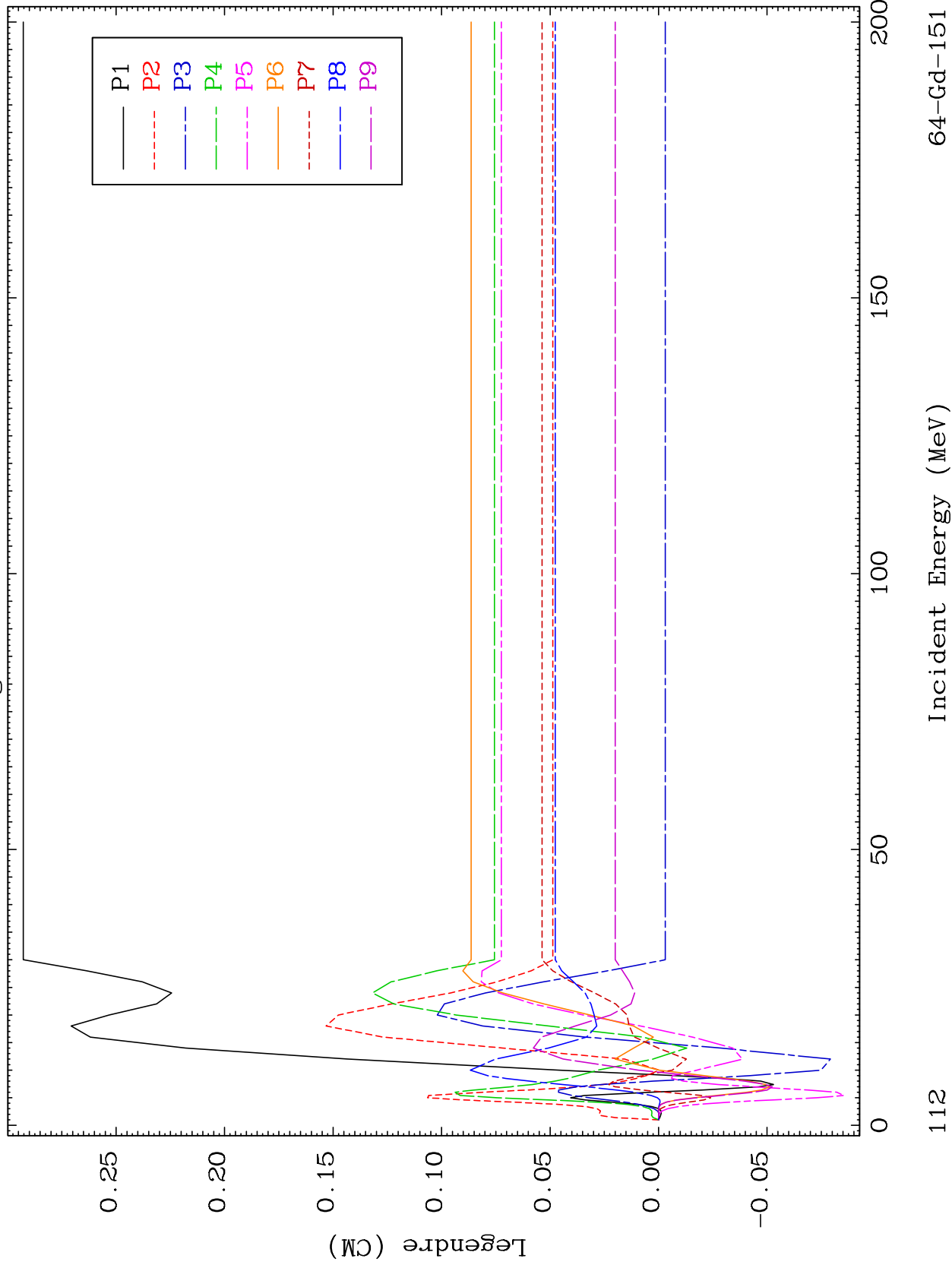
64-Gd-151



MAT 6422

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

64-Gd-151



64-Gd-151

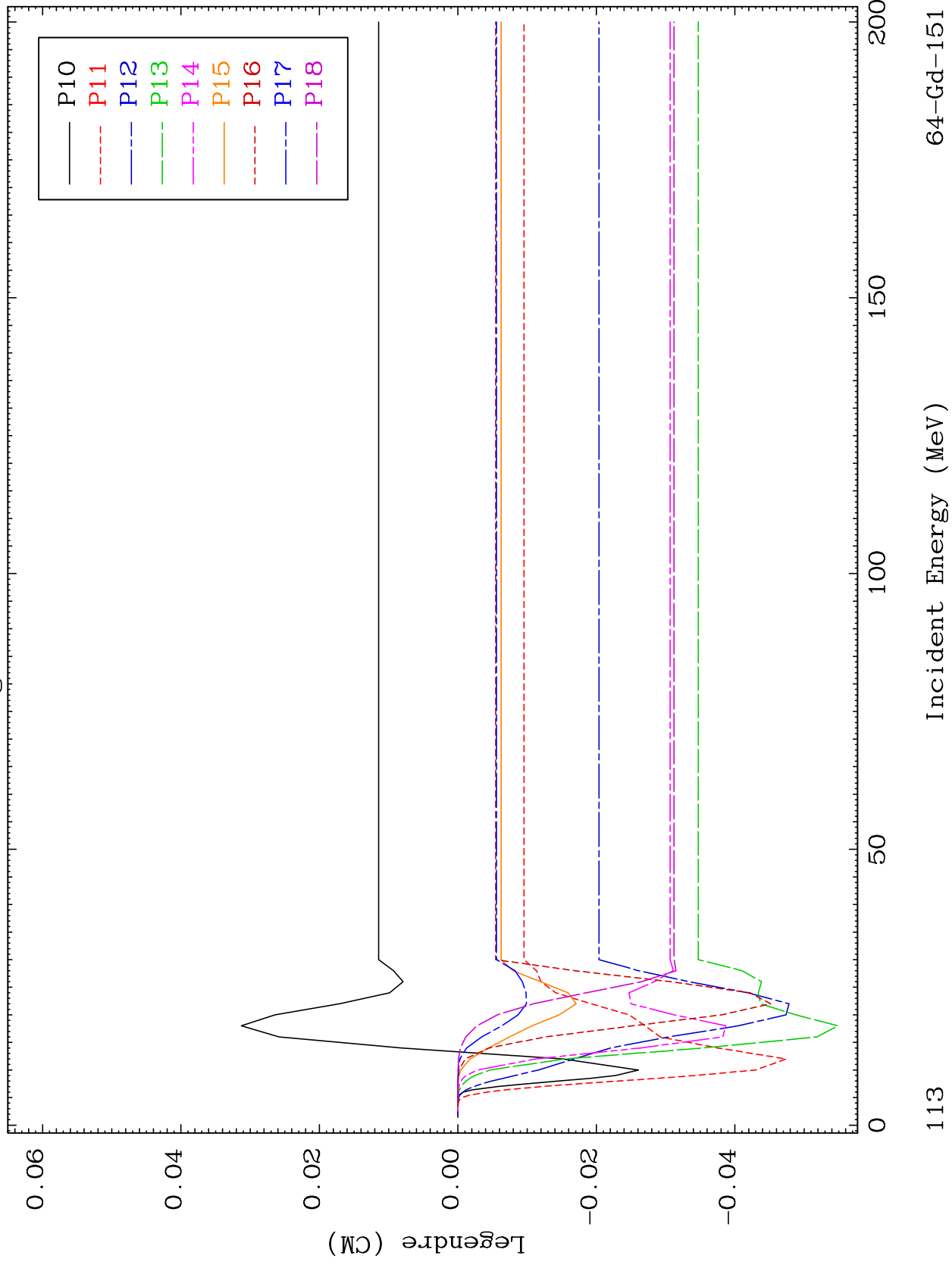
Incident Energy (MeV)

112

MAT 6422

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

64-Gd-151



64-Gd-151

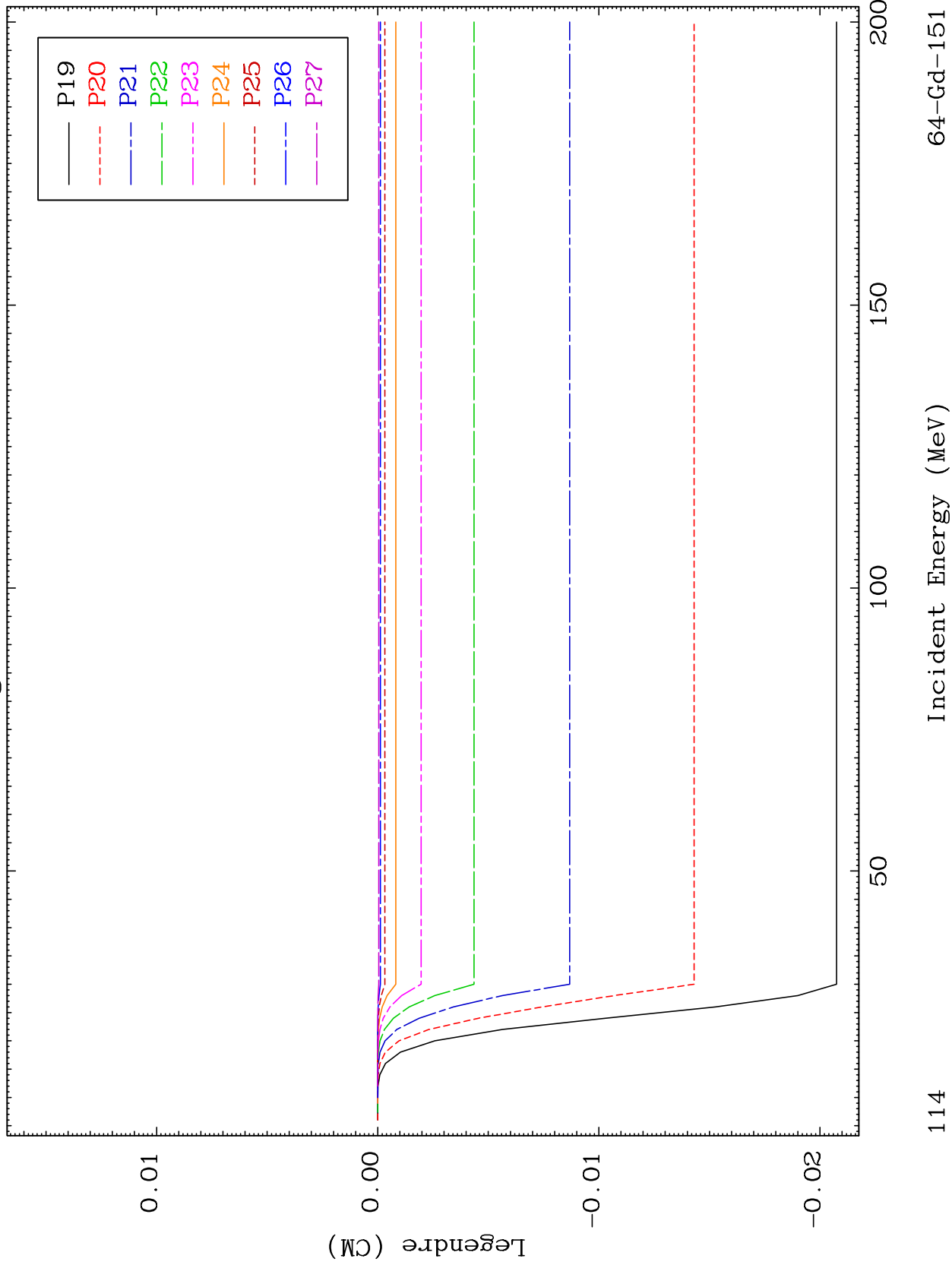
Incident Energy (MeV)

113

MAT 6422

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

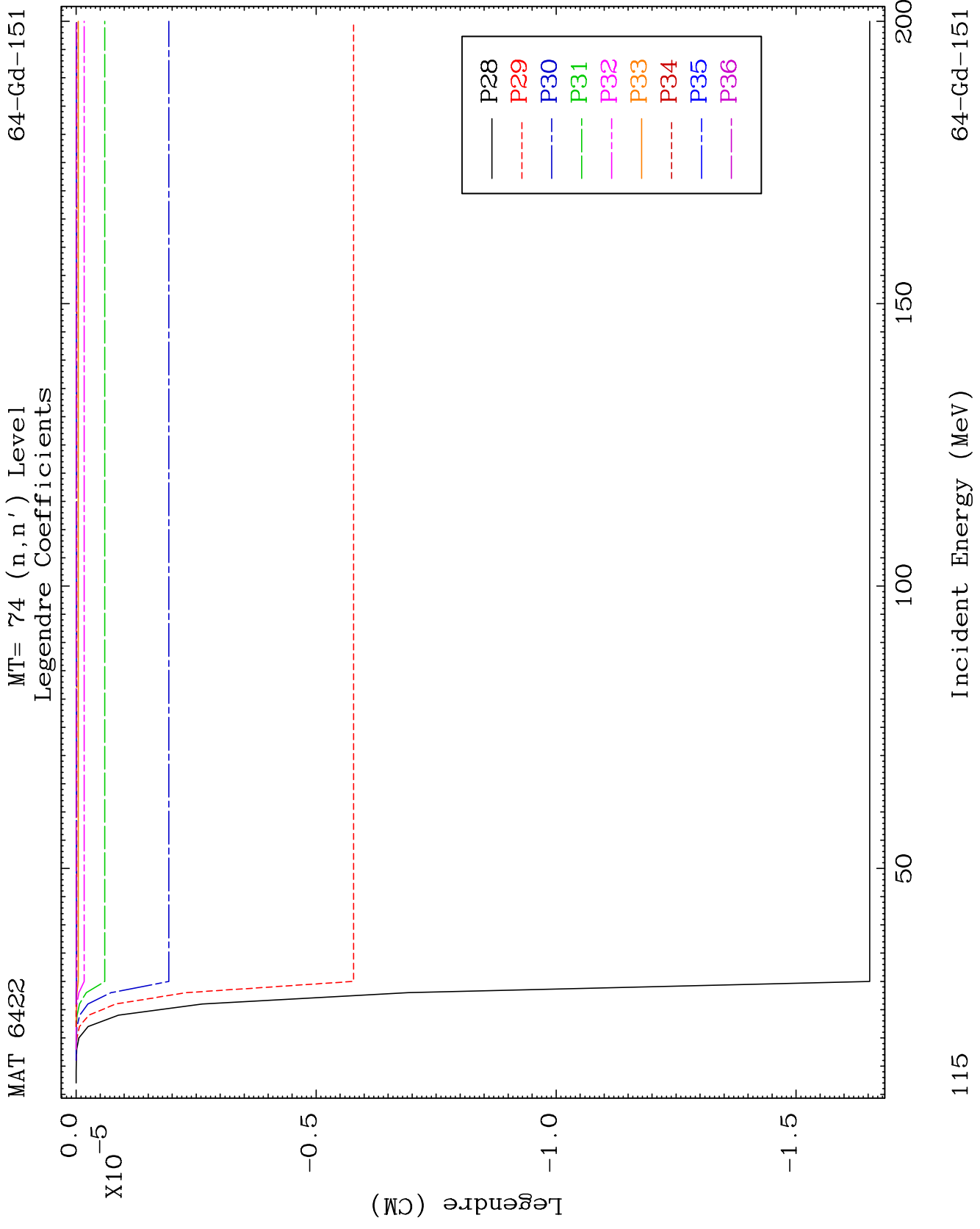
64-Gd-151



114

Incident Energy (MeV)

64-Gd-151

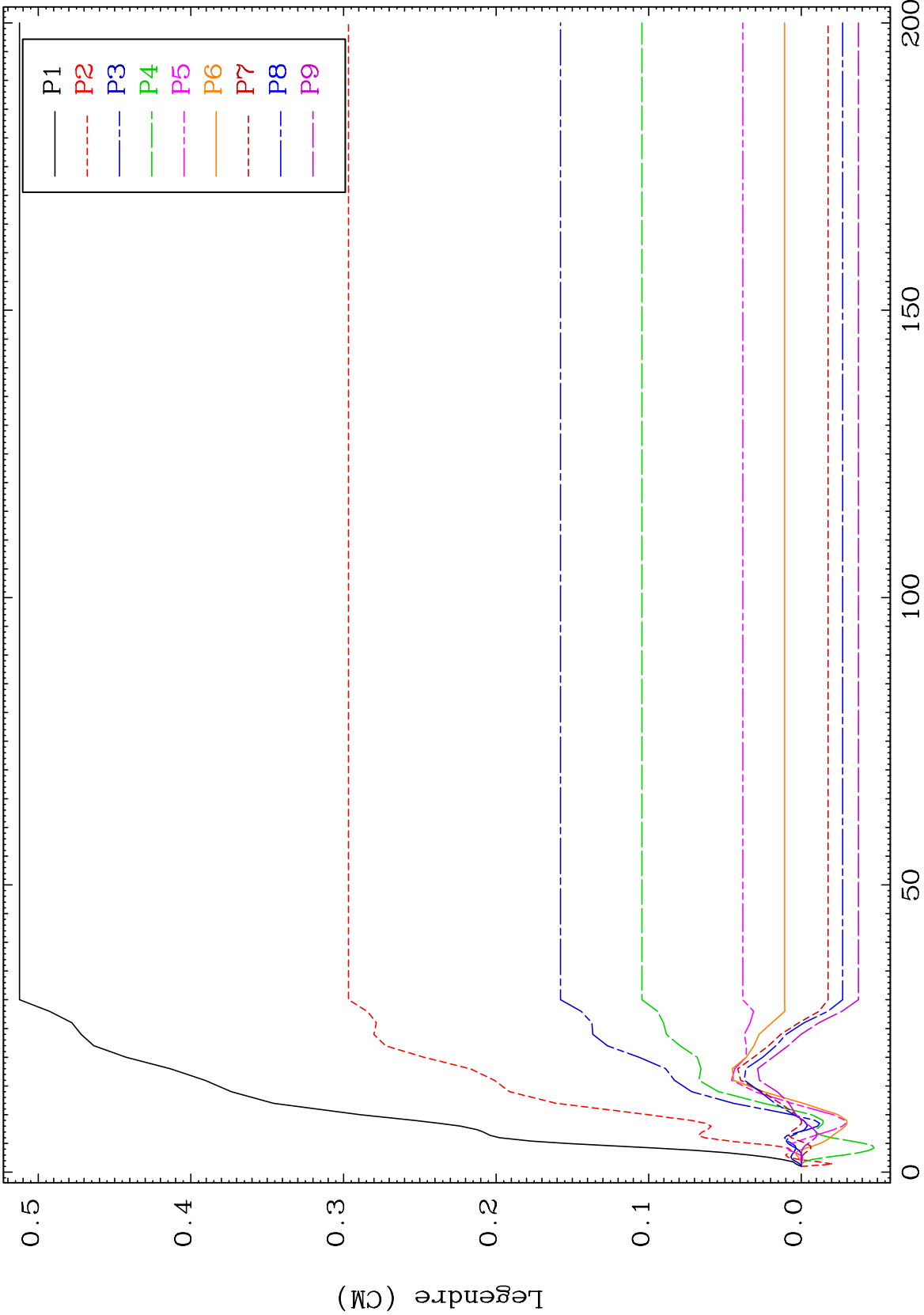


MAT 6422

MT= 75 (n,n') Level

64-Gd-151

Legendre Coefficients



64-Gd-151

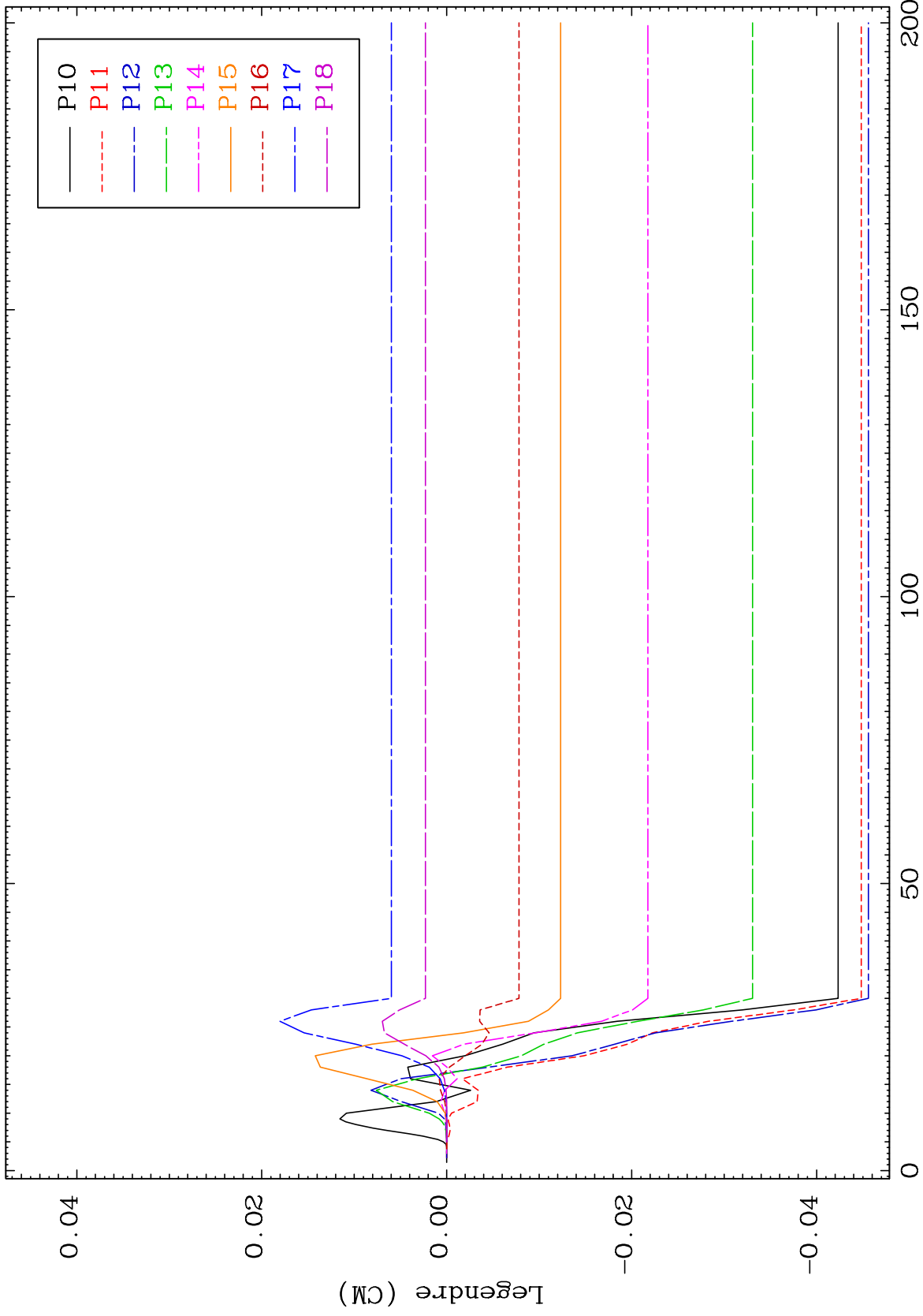
Incident Energy (MeV)

116

MAT 6422

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

64-Gd-151



117

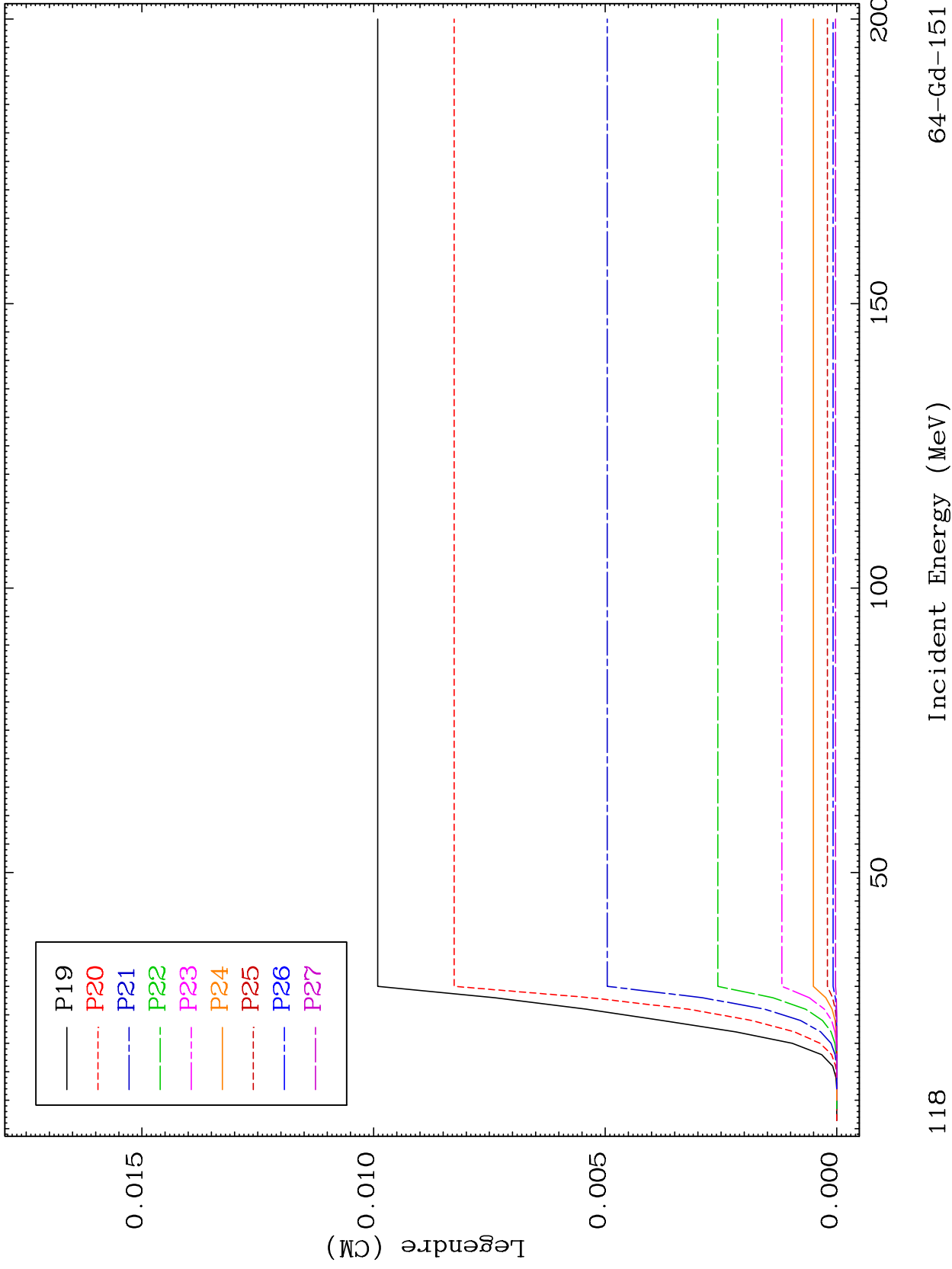
Incident Energy (MeV)

64-Gd-151

MAT 6422

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

64-Gd-151



118

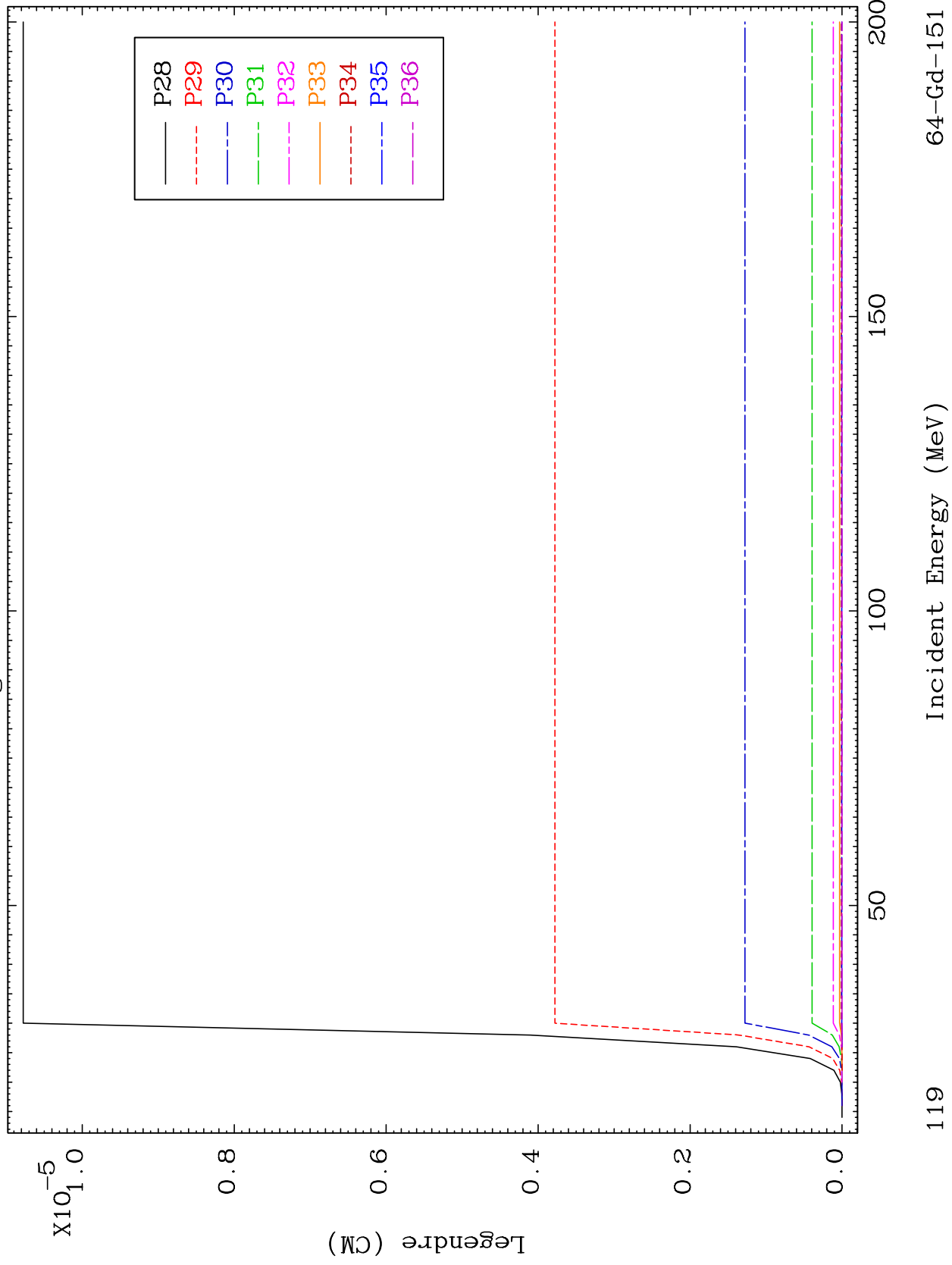
Incident Energy (MeV)

64-Gd-151

MAT 6422

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

64-Gd-151



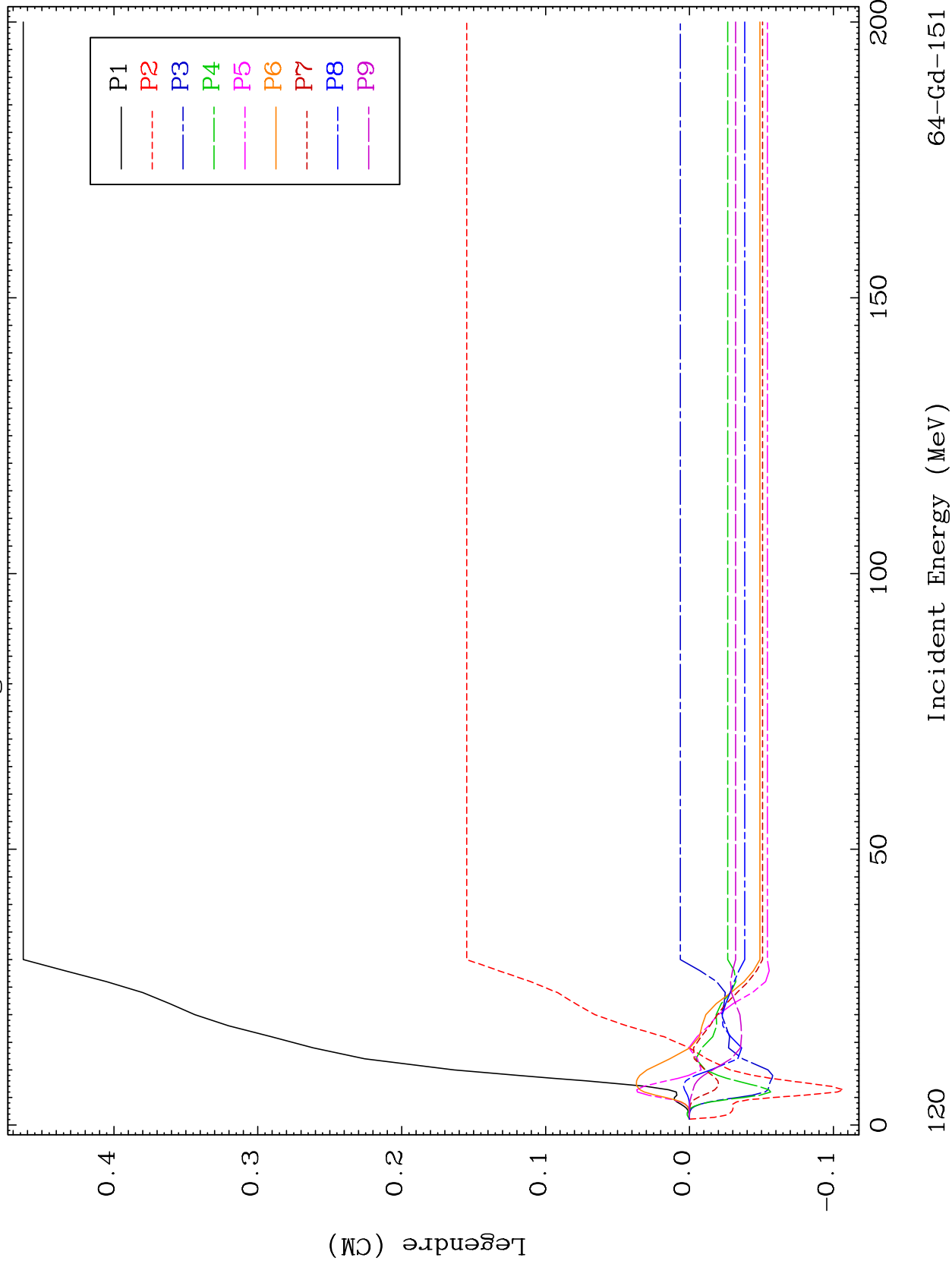
119

64-Gd-151

MAT 6422

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

64-Gd-151



64-Gd-151

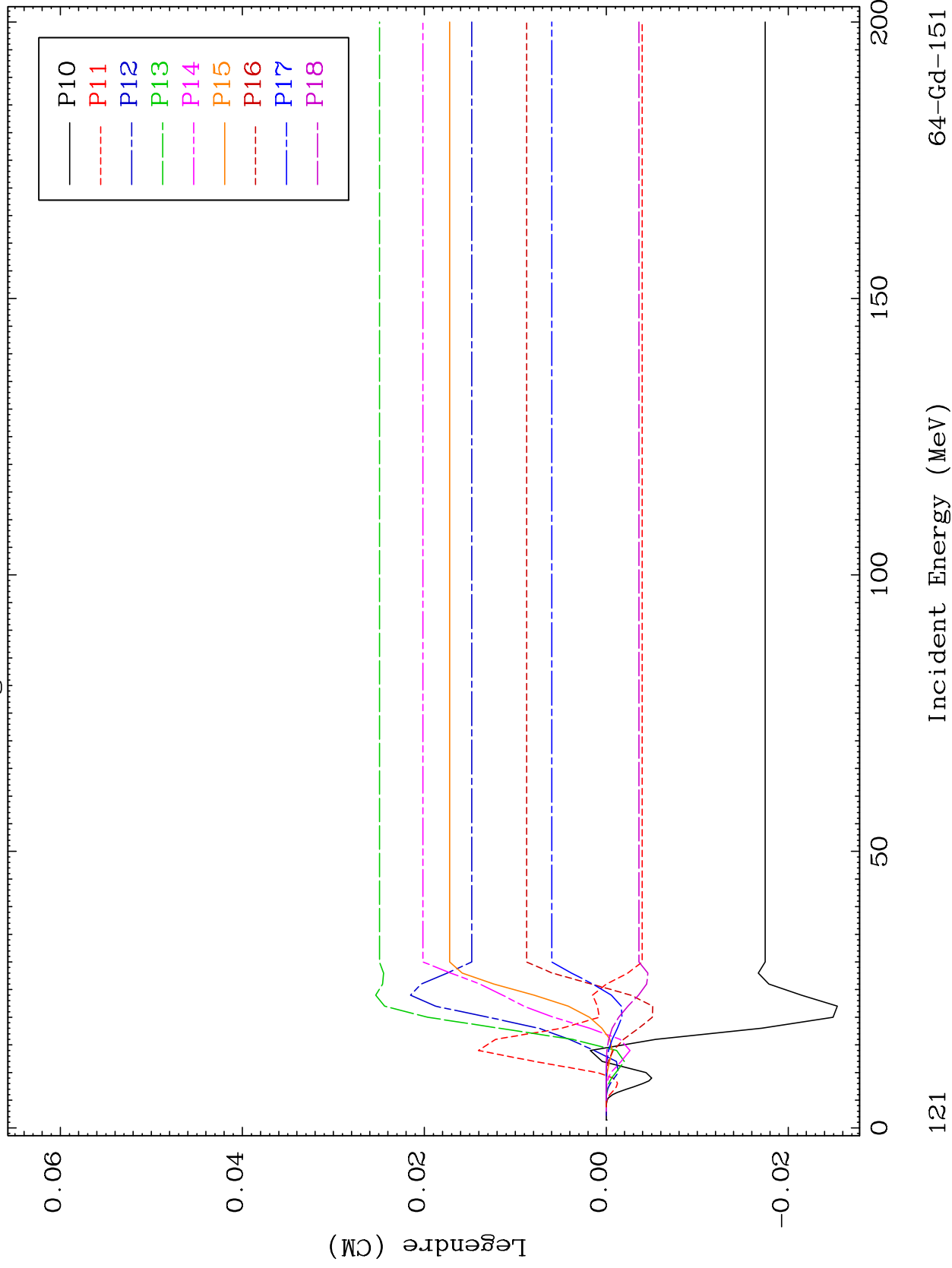
Incident Energy (MeV)

120

MAT 6422

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

64-Gd-151



121

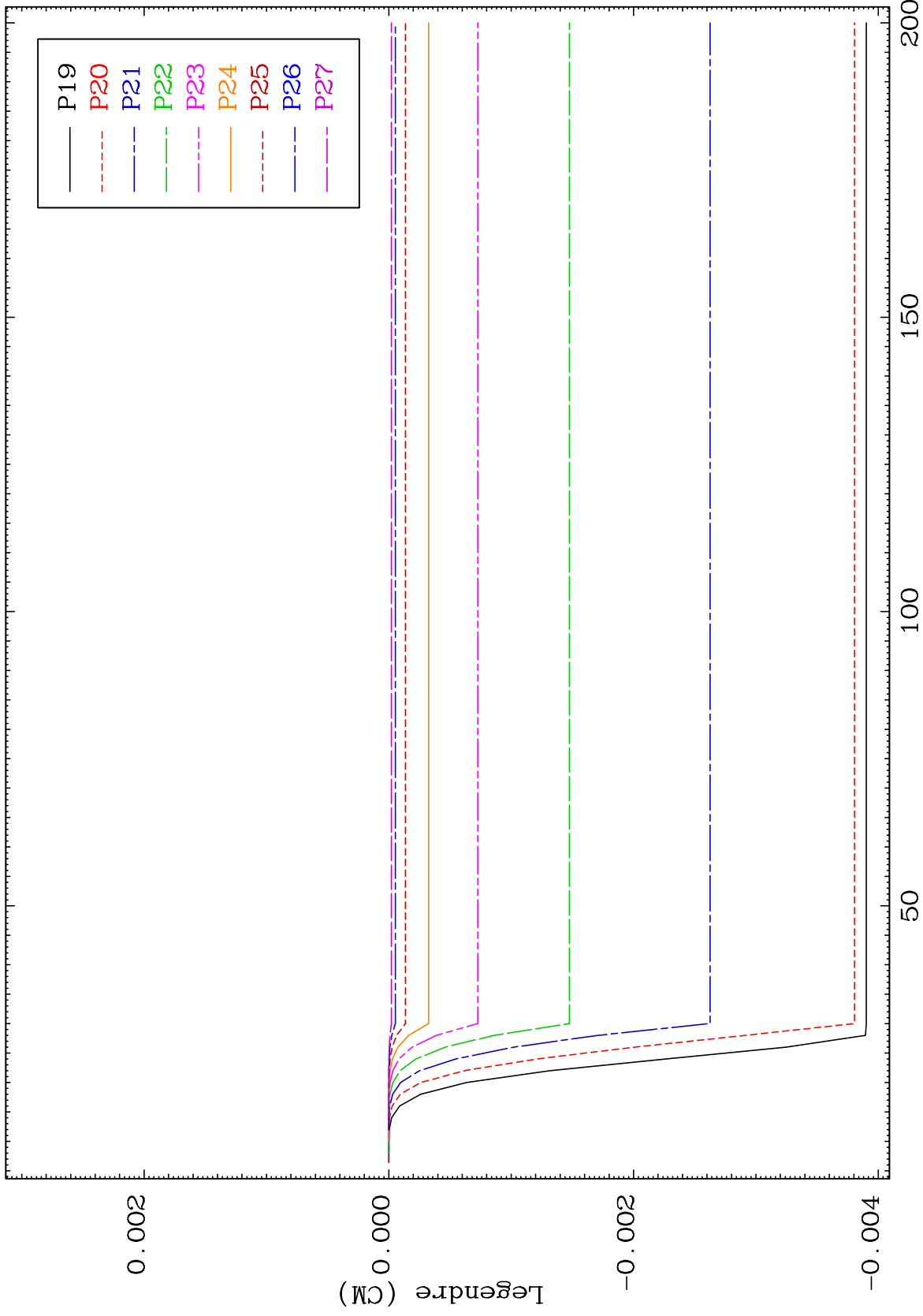
Incident Energy (MeV)

64-Gd-151

MAT 6422

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

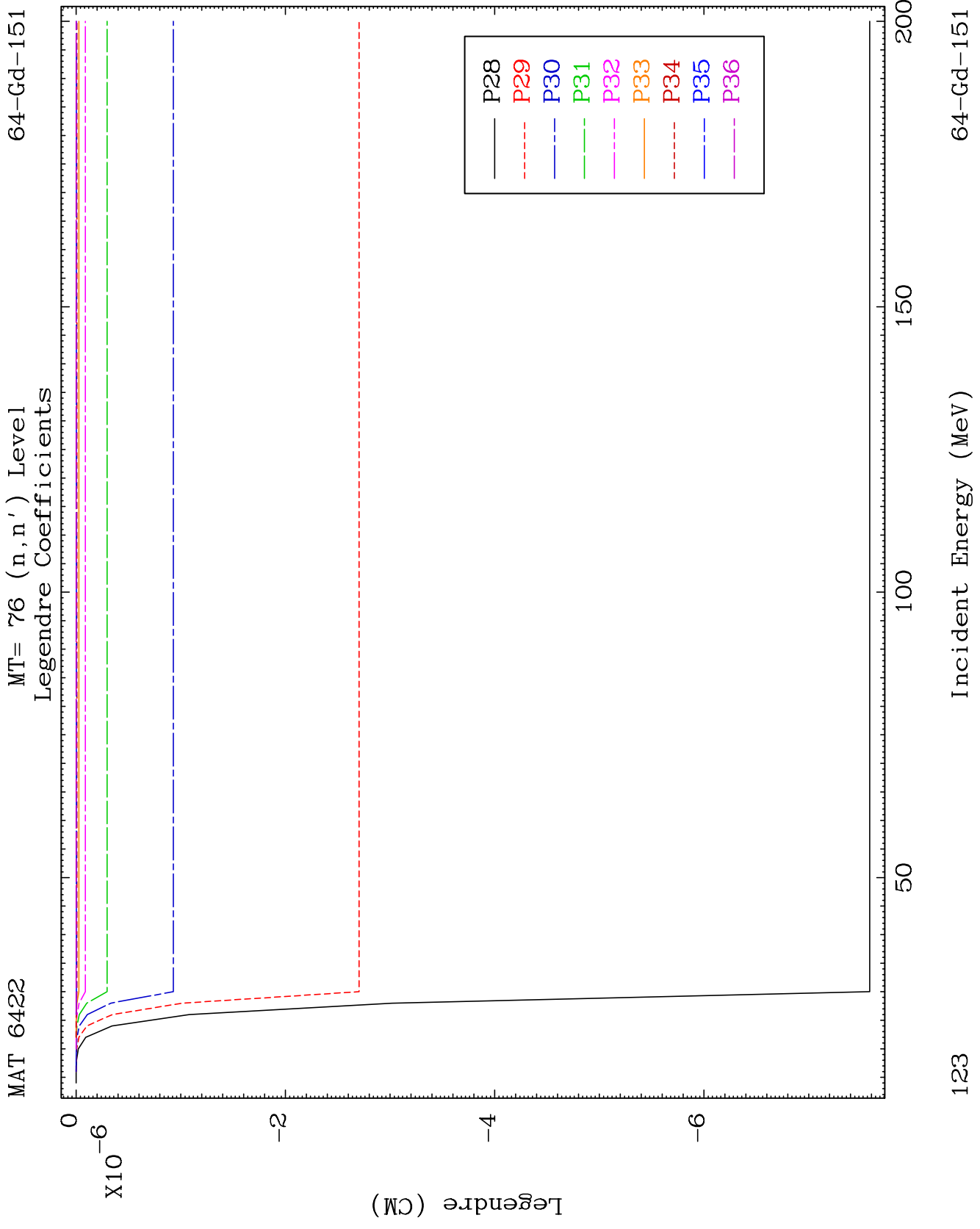
64-Gd-151



122

Incident Energy (MeV)

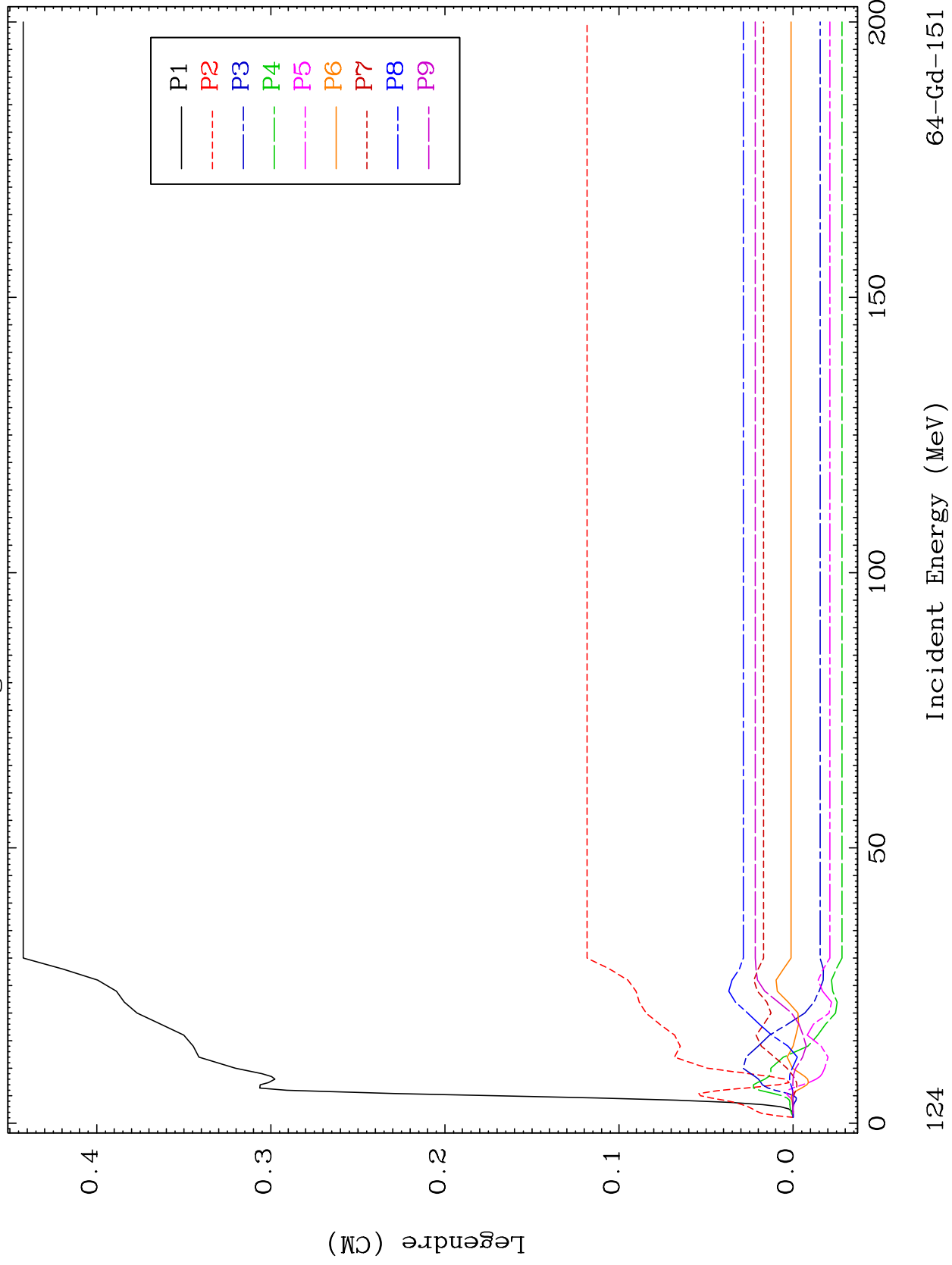
64-Gd-151



MAT 6422

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

64-Gd-151



64-Gd-151

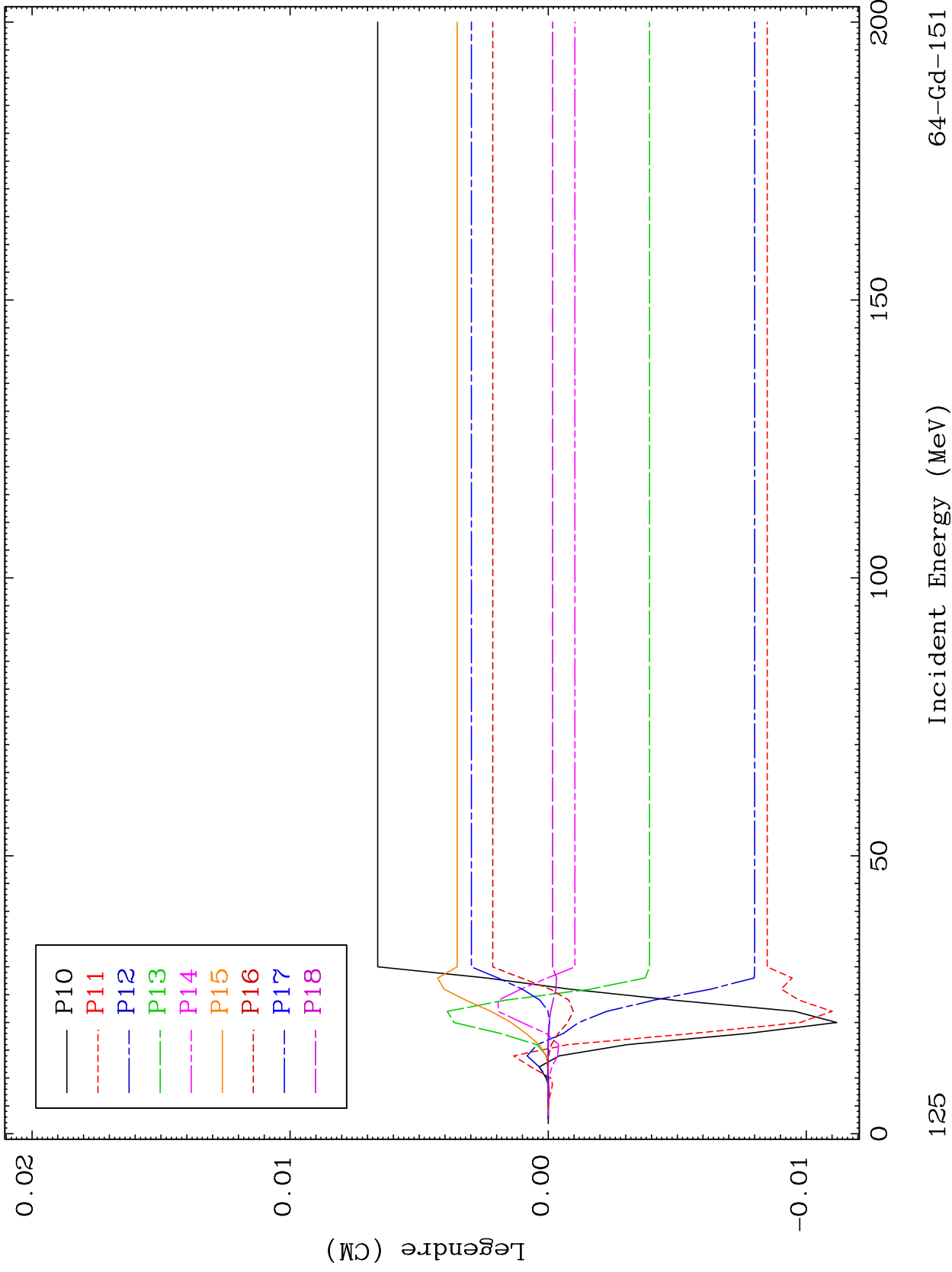
Incident Energy (MeV)

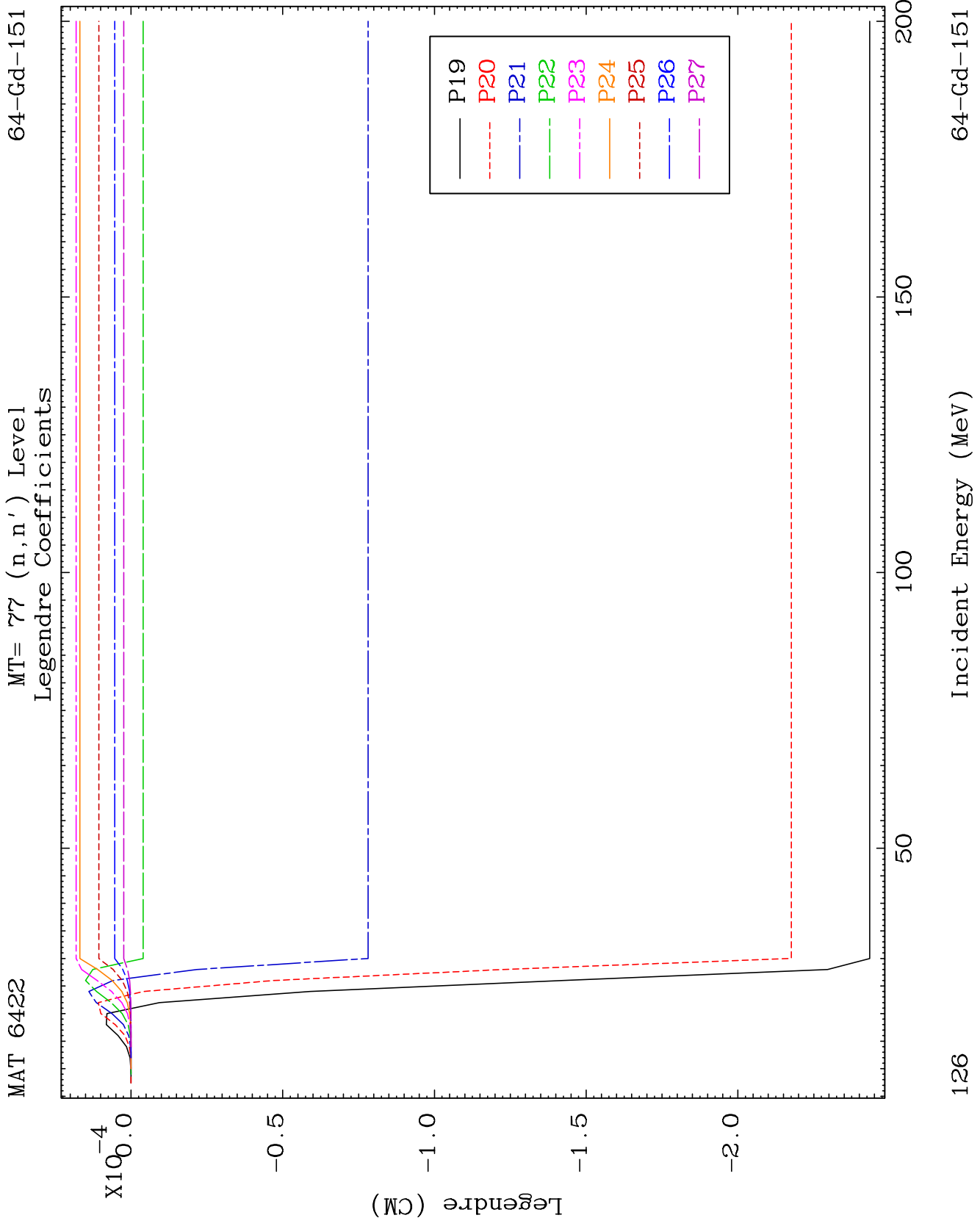
124

MAT 6422

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

64-Gd-151

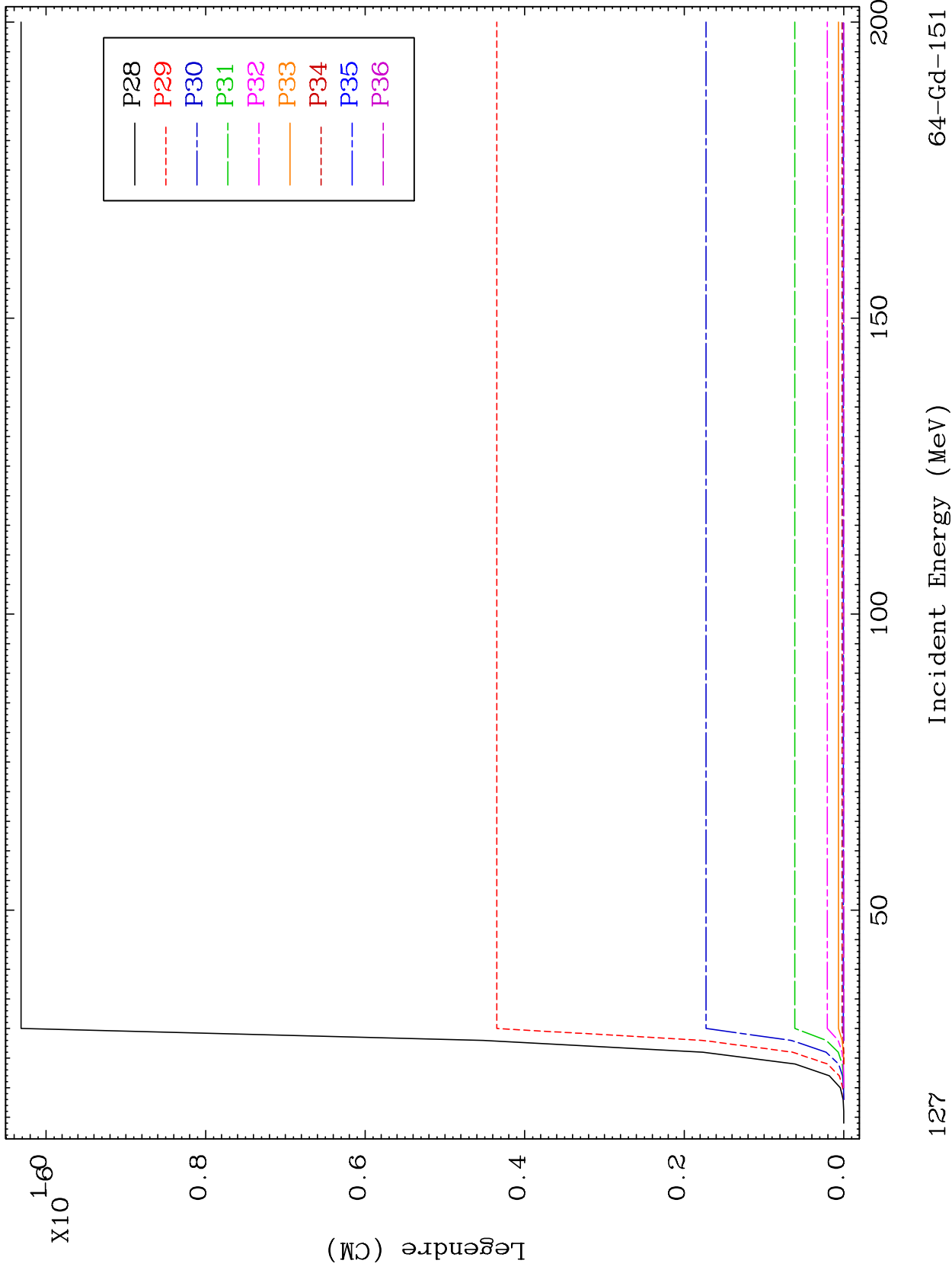




MAT 6422

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

64-Gd-151



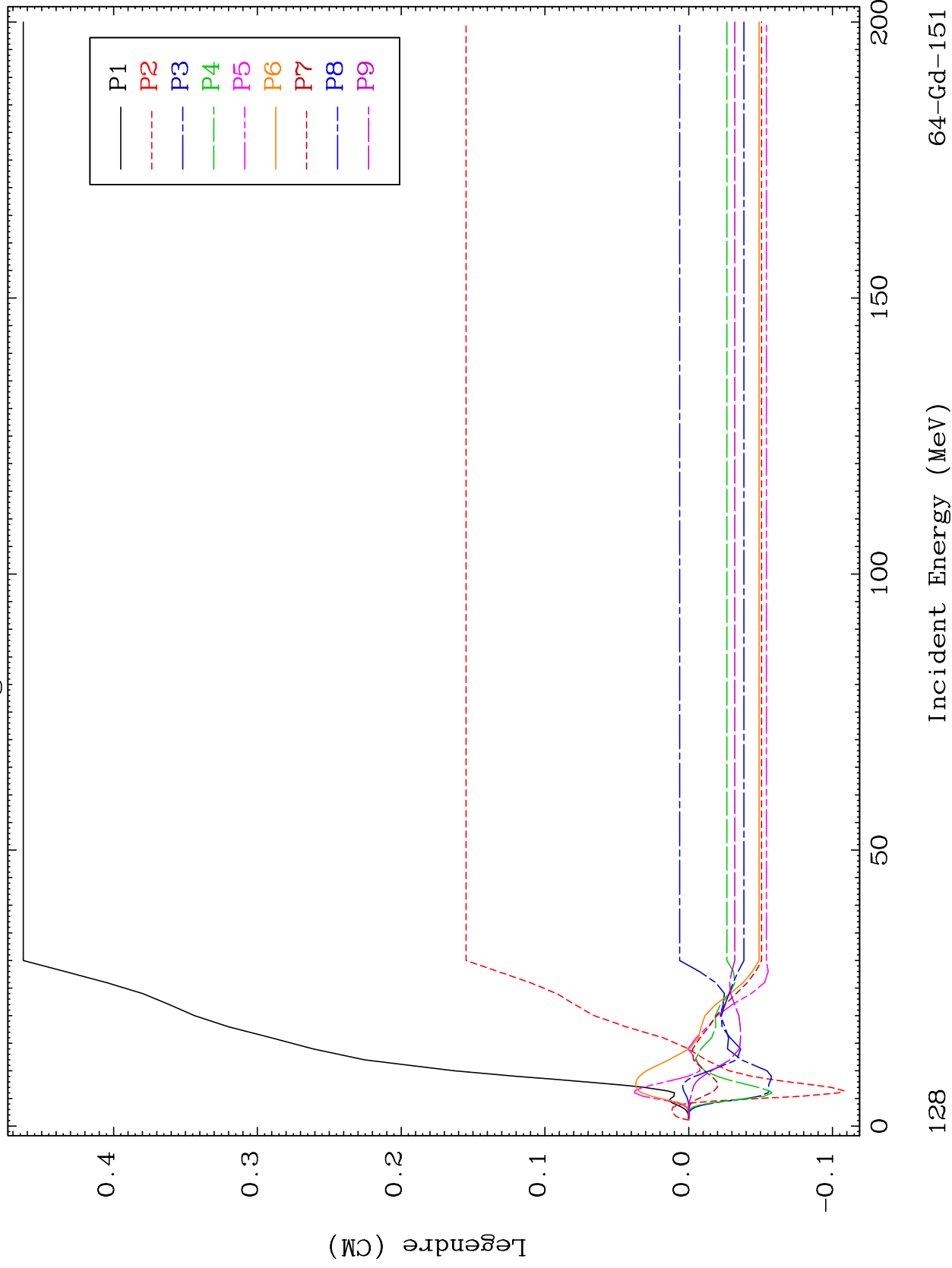
127

64-Gd-151

MAT 6422

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

64-Gd-151



64-Gd-151

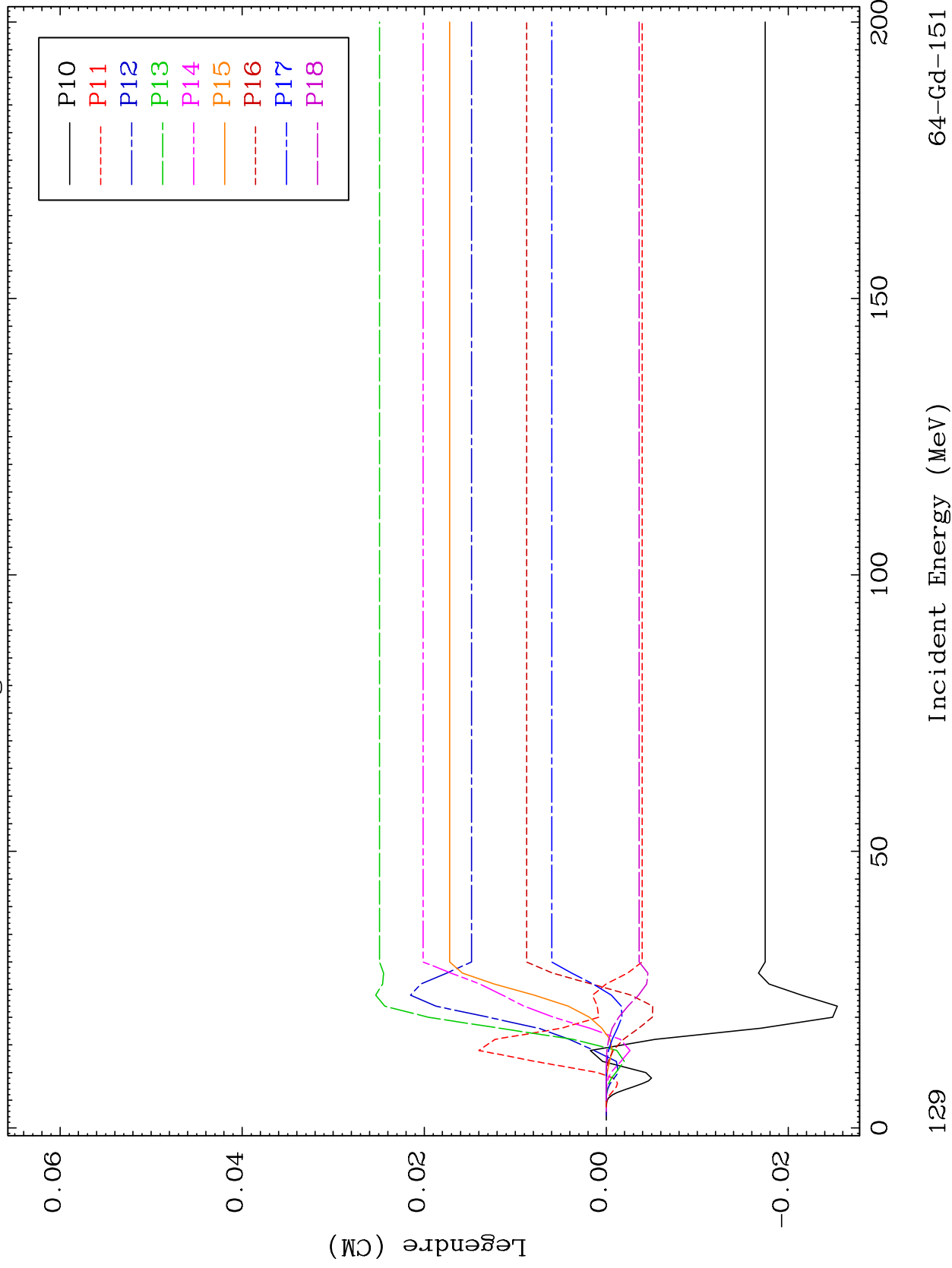
Incident Energy (MeV)

128

MAT 6422

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

64-Gd-151



64-Gd-151

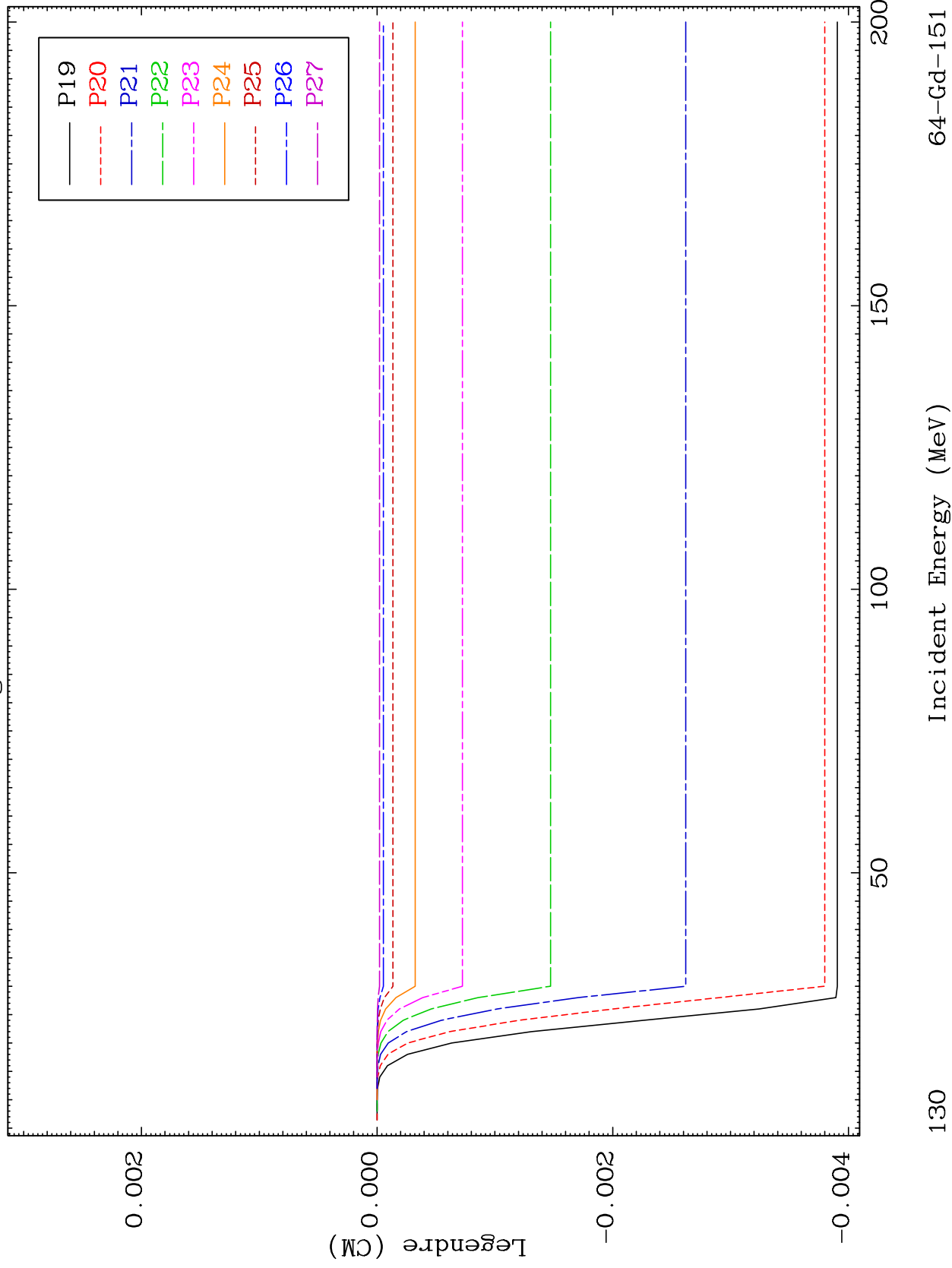
Incident Energy (MeV)

129

MAT 6422

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

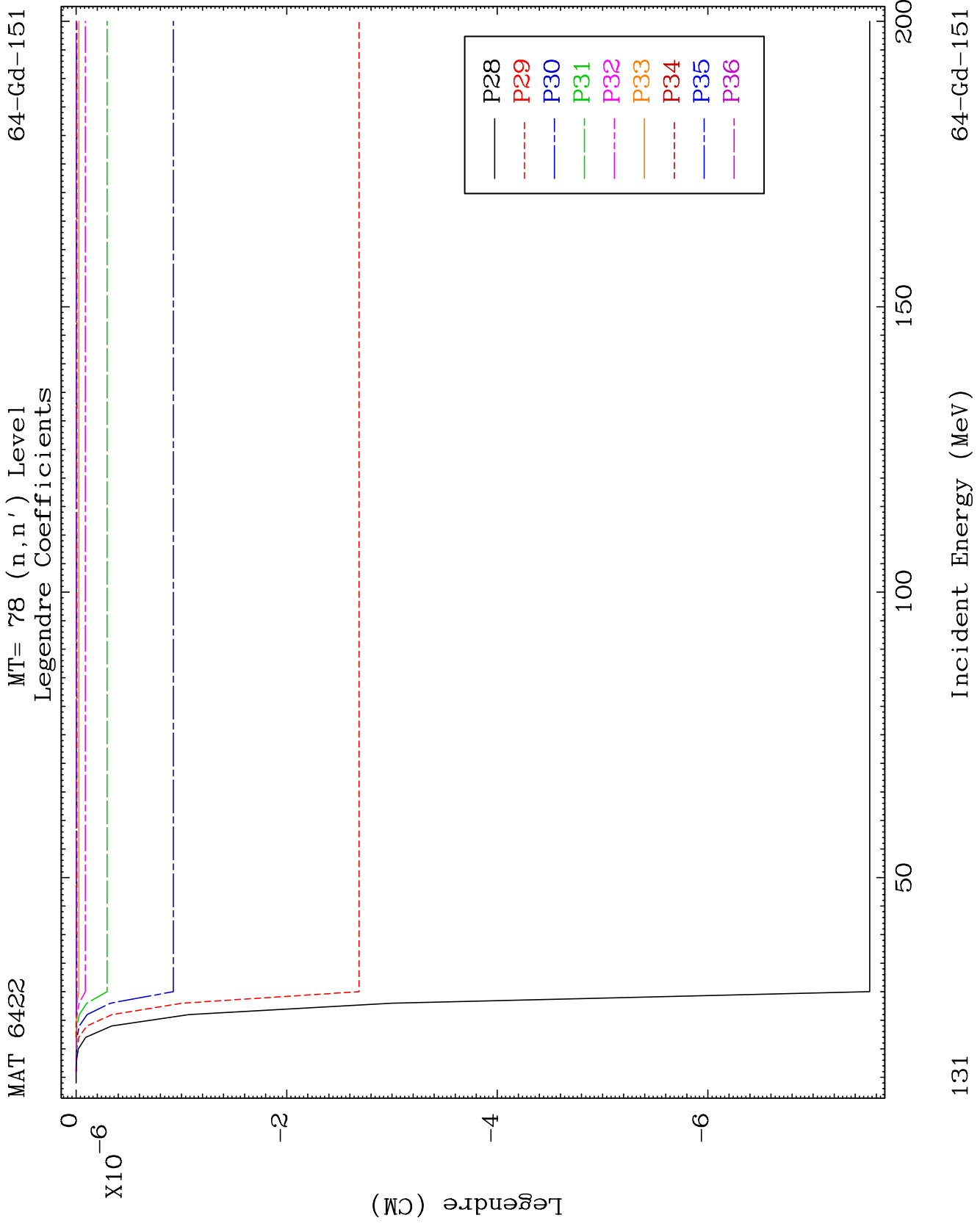
64-Gd-151



130

Incident Energy (MeV)

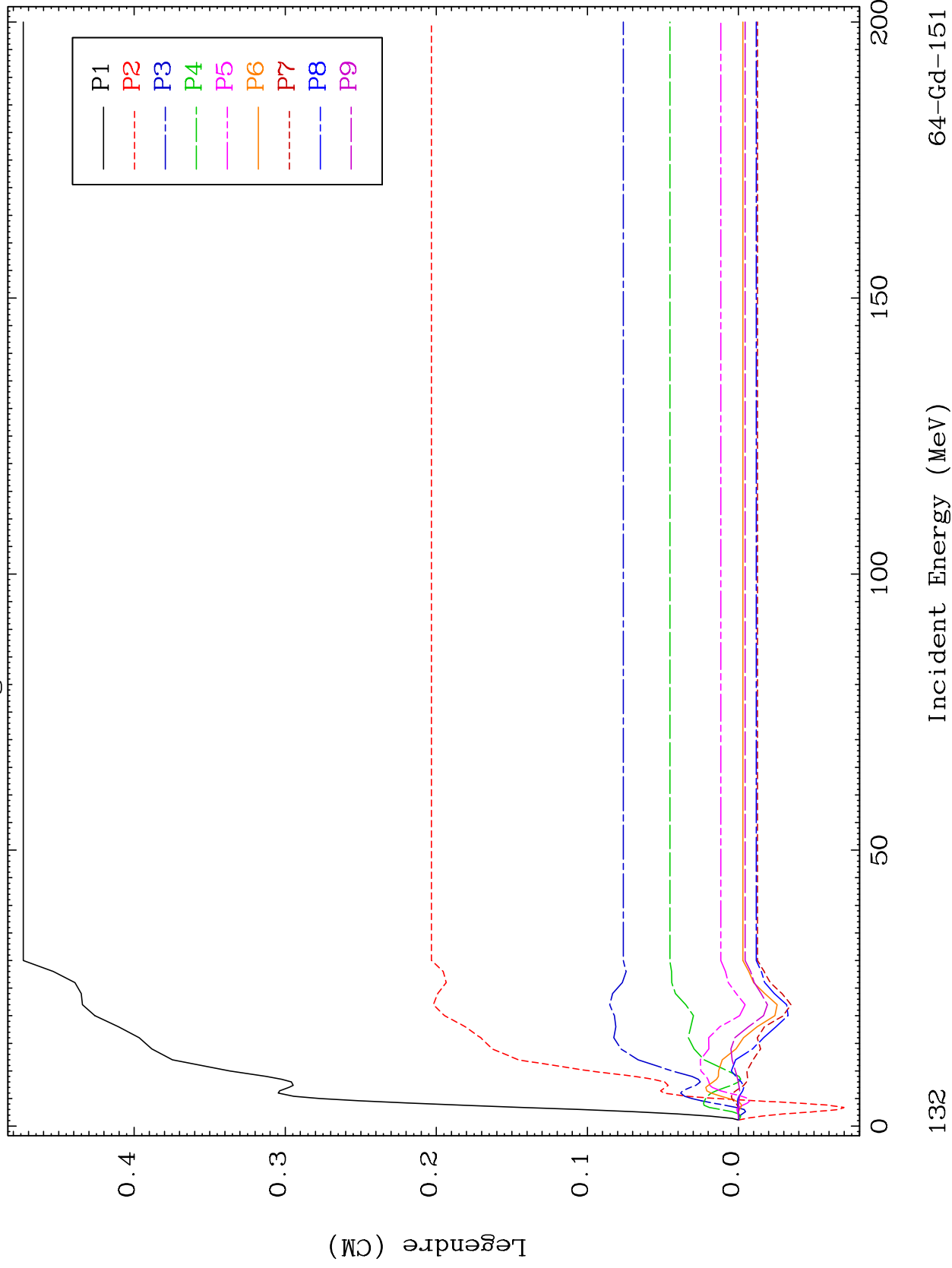
64-Gd-151



MAT 6422

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

64-Gd-151



64-Gd-151

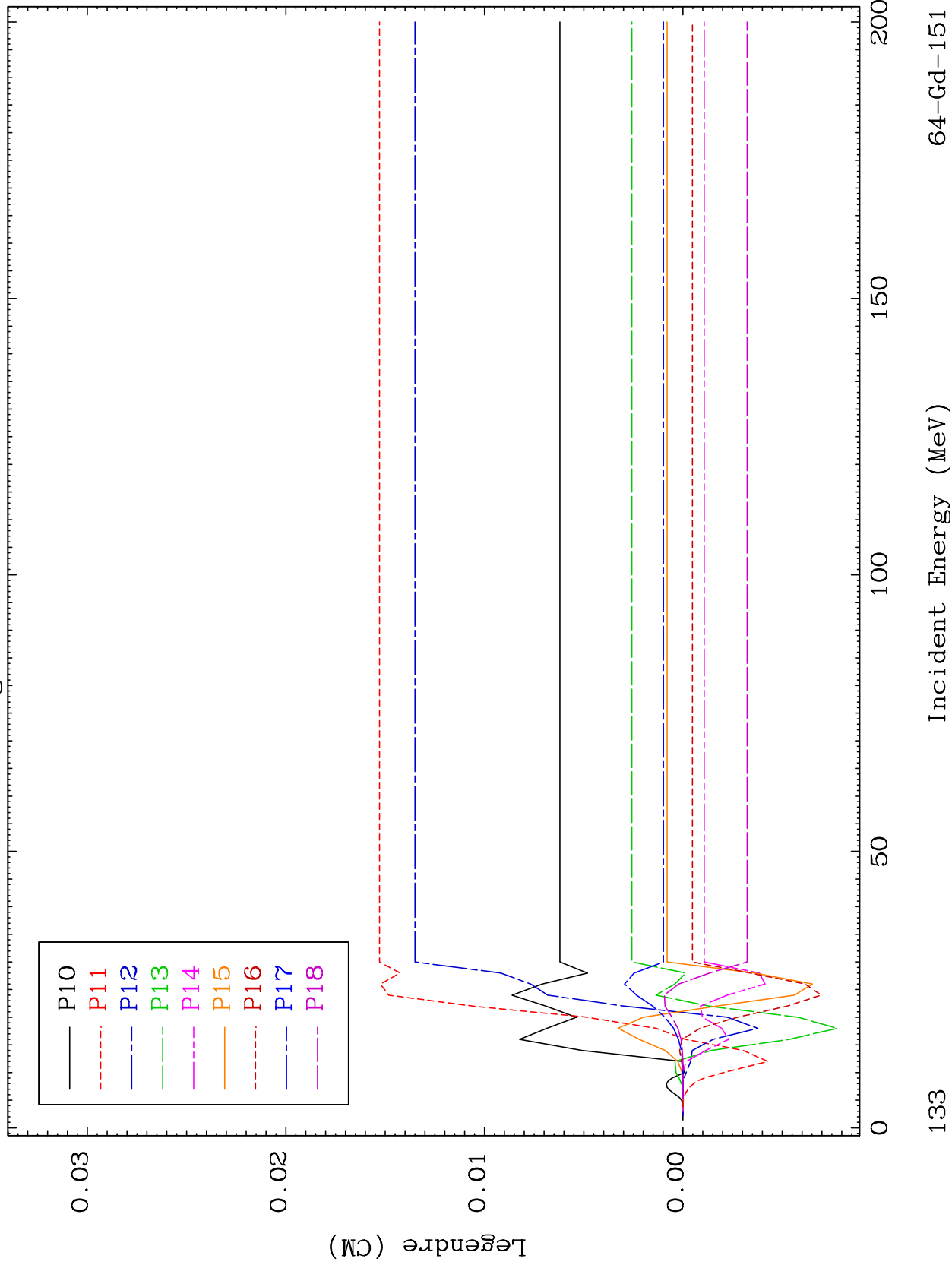
Incident Energy (MeV)

132

MAT 6422

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

64-Gd-151



133

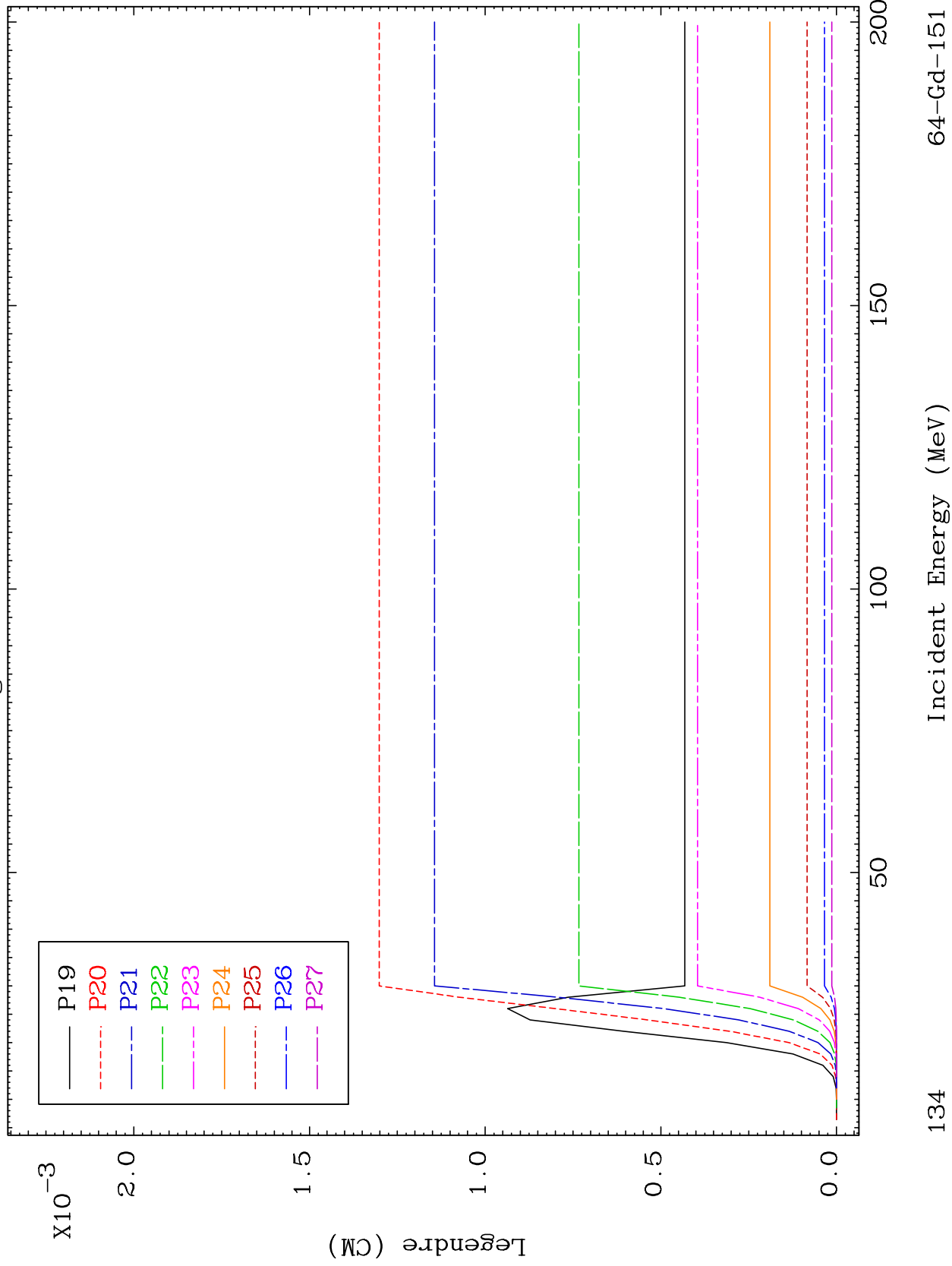
Incident Energy (MeV)

64-Gd-151

MAT 6422

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

64-Gd-151



134

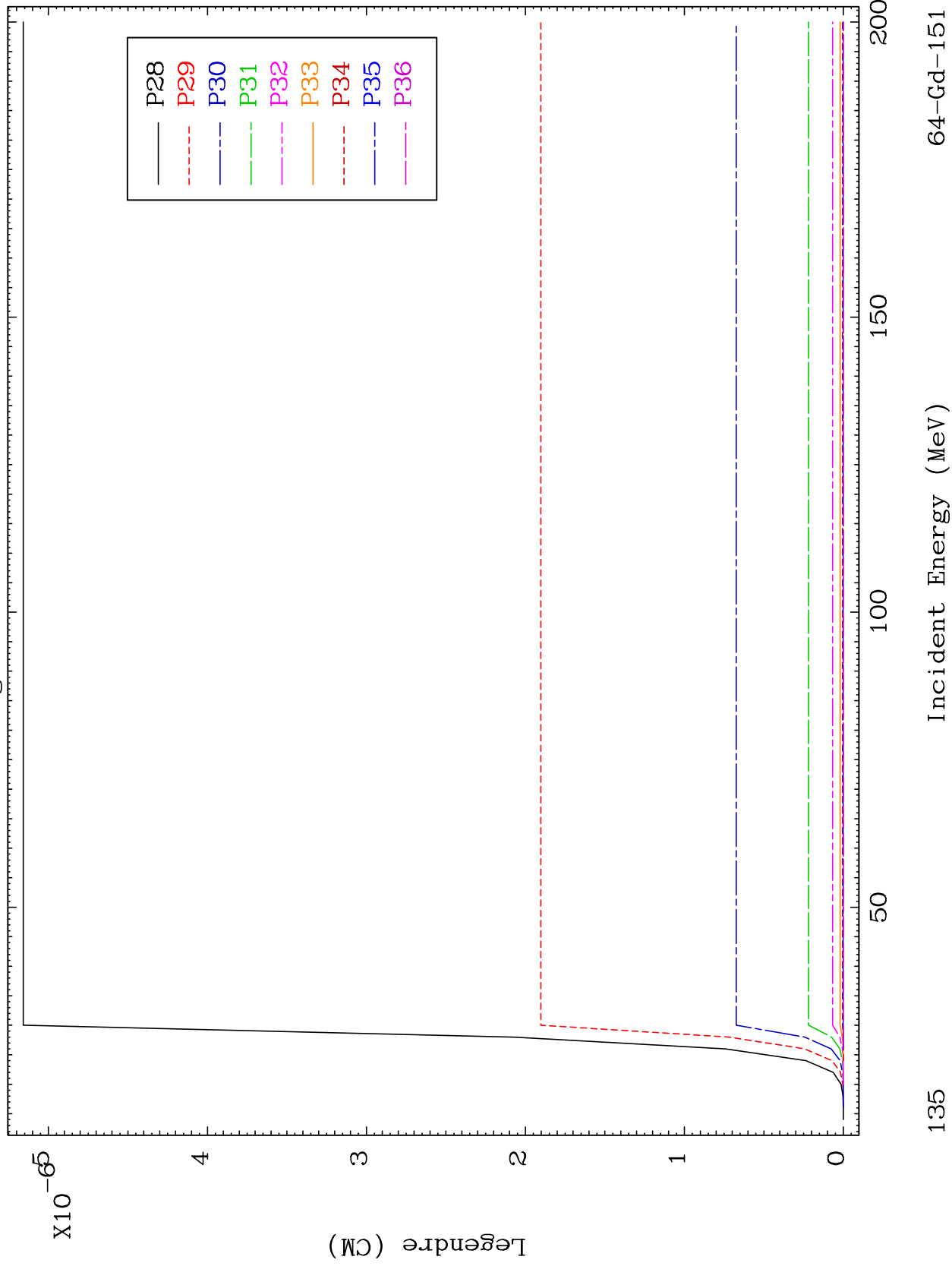
Incident Energy (MeV)

64-Gd-151

MAT 6422

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

64-Gd-151

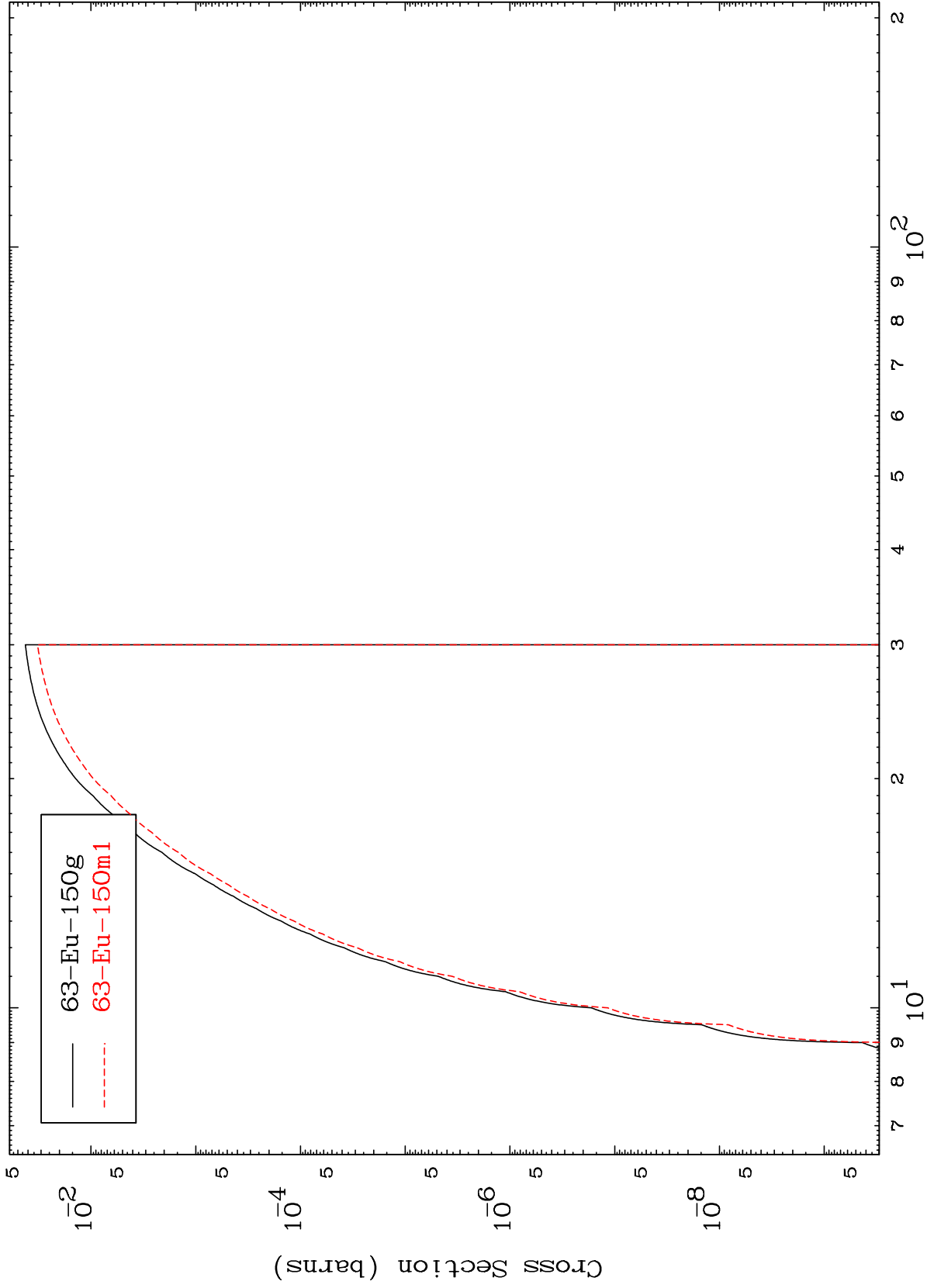


MAT 6422

(n,n') p

64-Gd-151

Radionuclide Production Cross Section



136

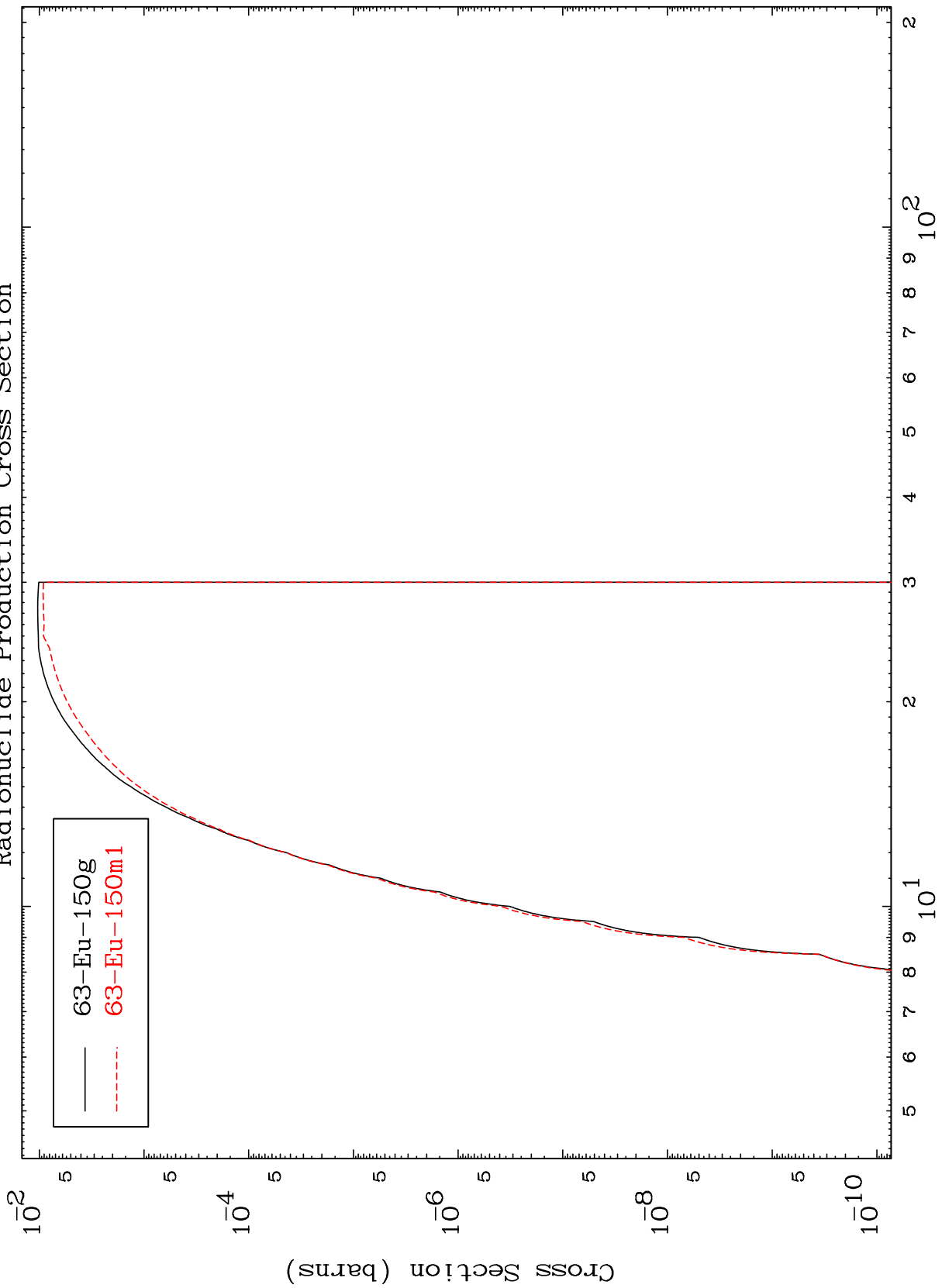
Incident Energy (MeV)

64-Gd-151

MAT 6422

64-Gd-151

Radionuclide Production Cross Section (n,d)



137

Incident Energy (MeV)

64-Gd-151