

Program EVALPLOT  
(Version 2017-1)

by

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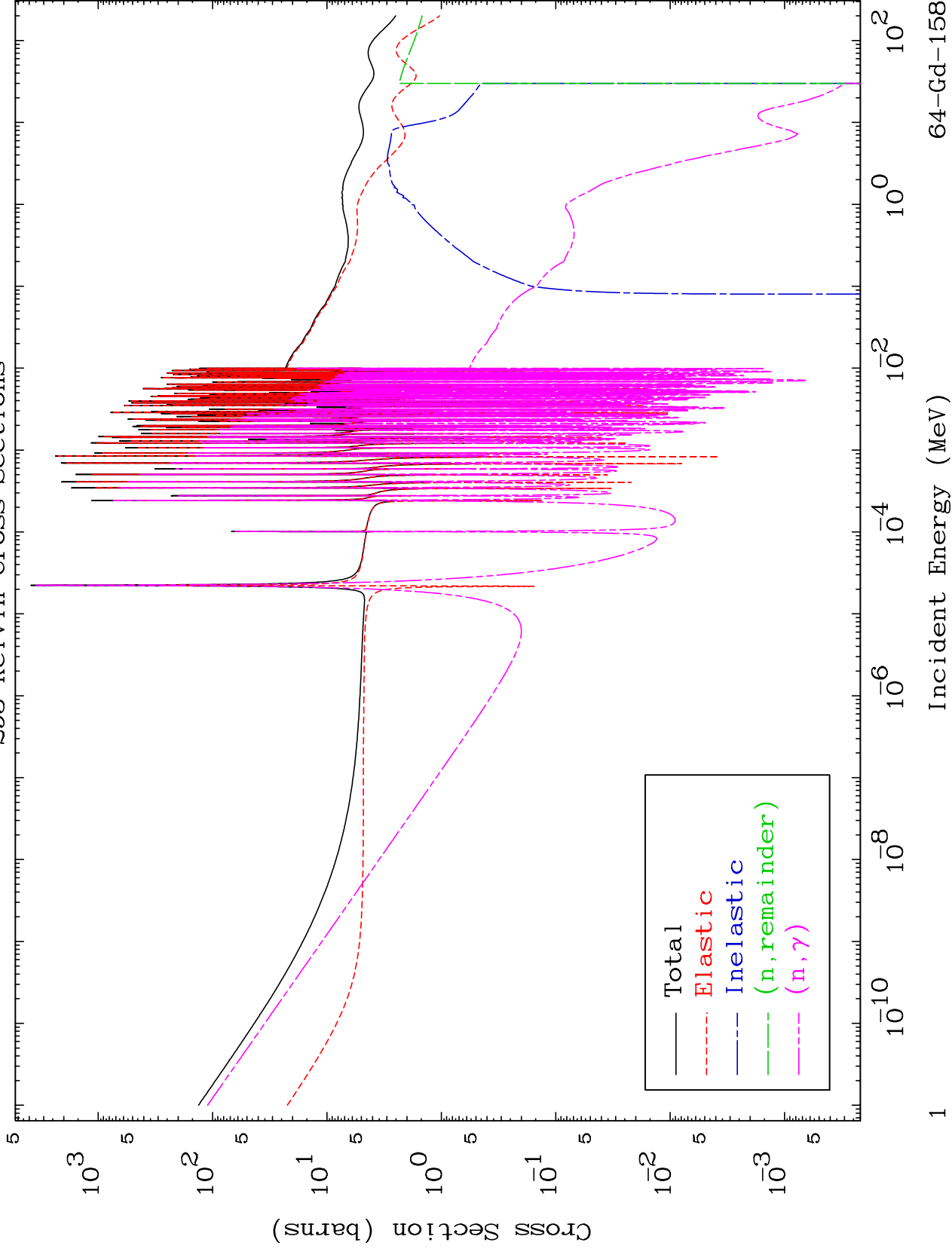
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Press Mouse Button to Start

MAT 6443

Major  
293 Kelvin Cross Sections

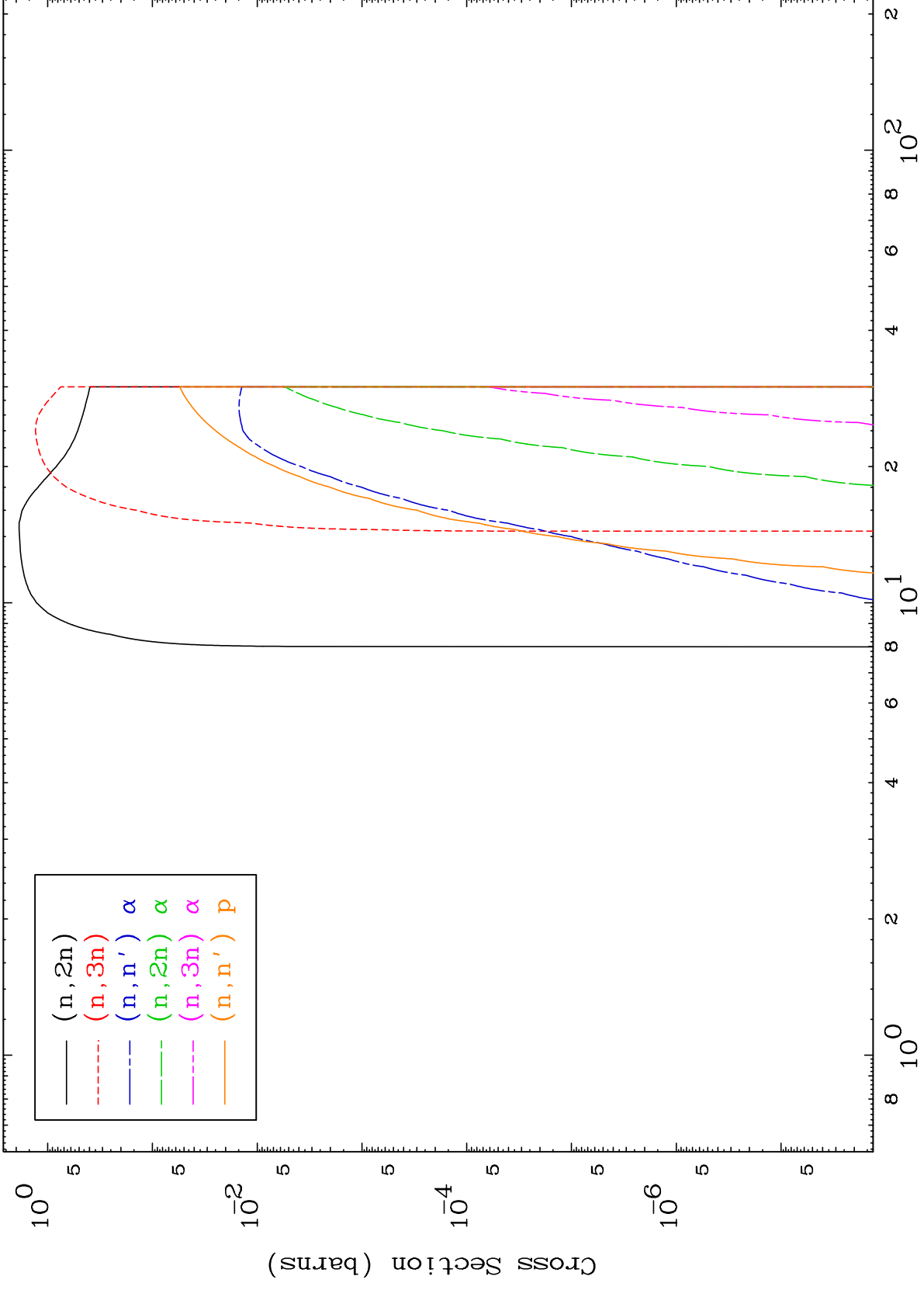
64-Gd-158



MAT 6443

Neutron Production  
293 Kelvin Cross Sections

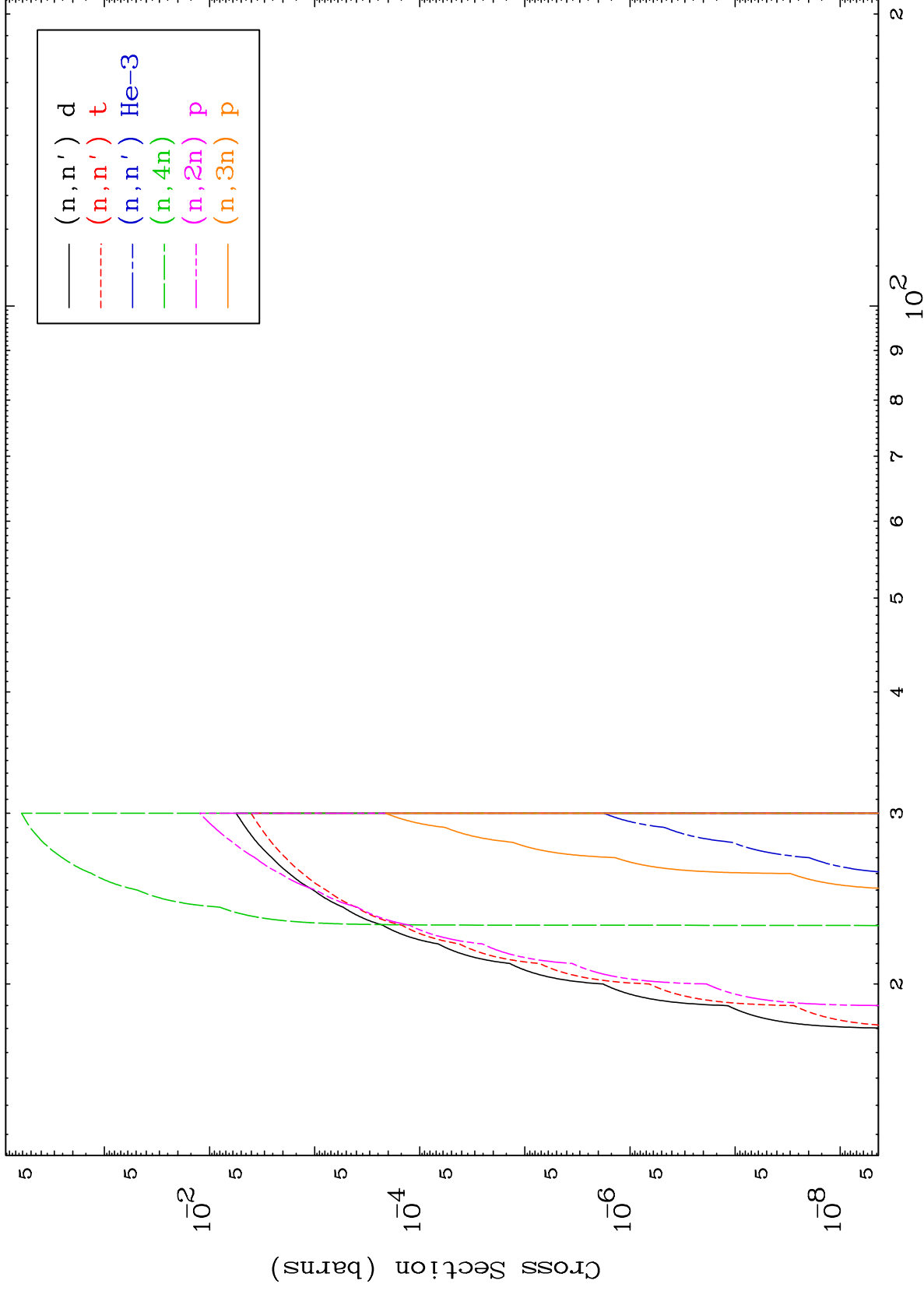
64-Gd-158



2

Incident Energy (MeV)

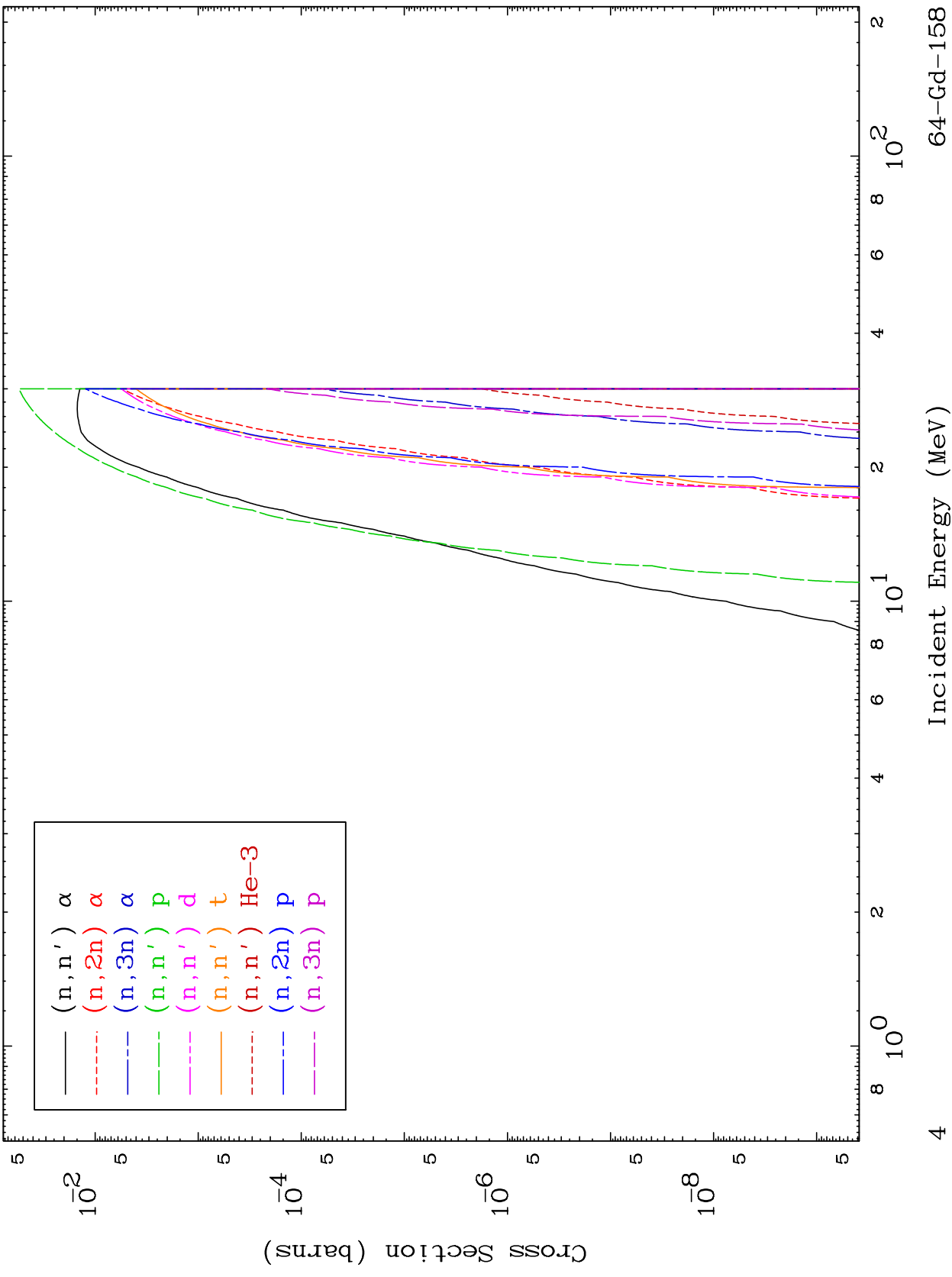
64-Gd-158



MAT 6443

Charged Particle  
293 Kelvin Cross Sections

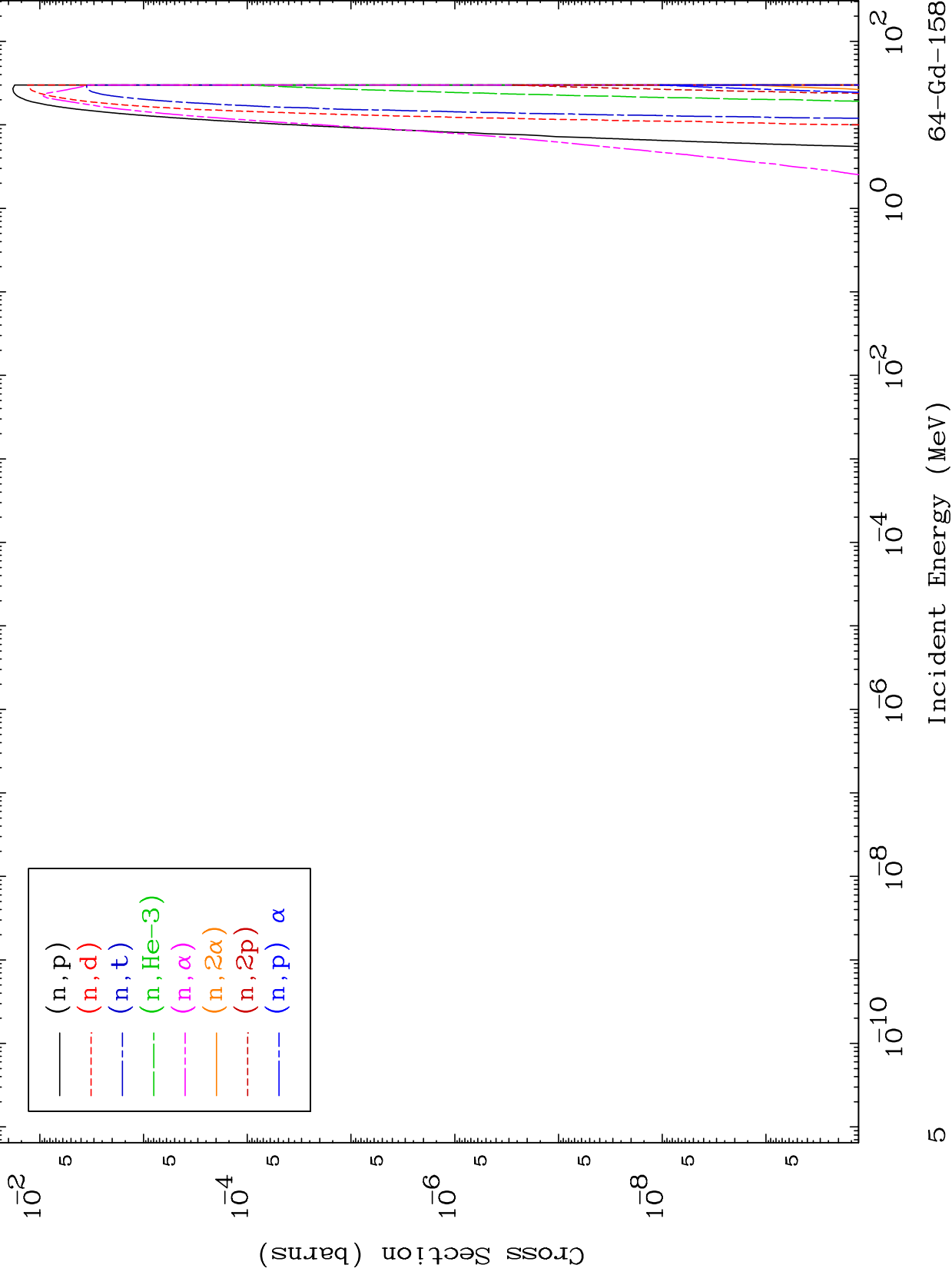
64-Gd-158



MAT 6443

Charged Particle  
293 Kelvin Cross Sections

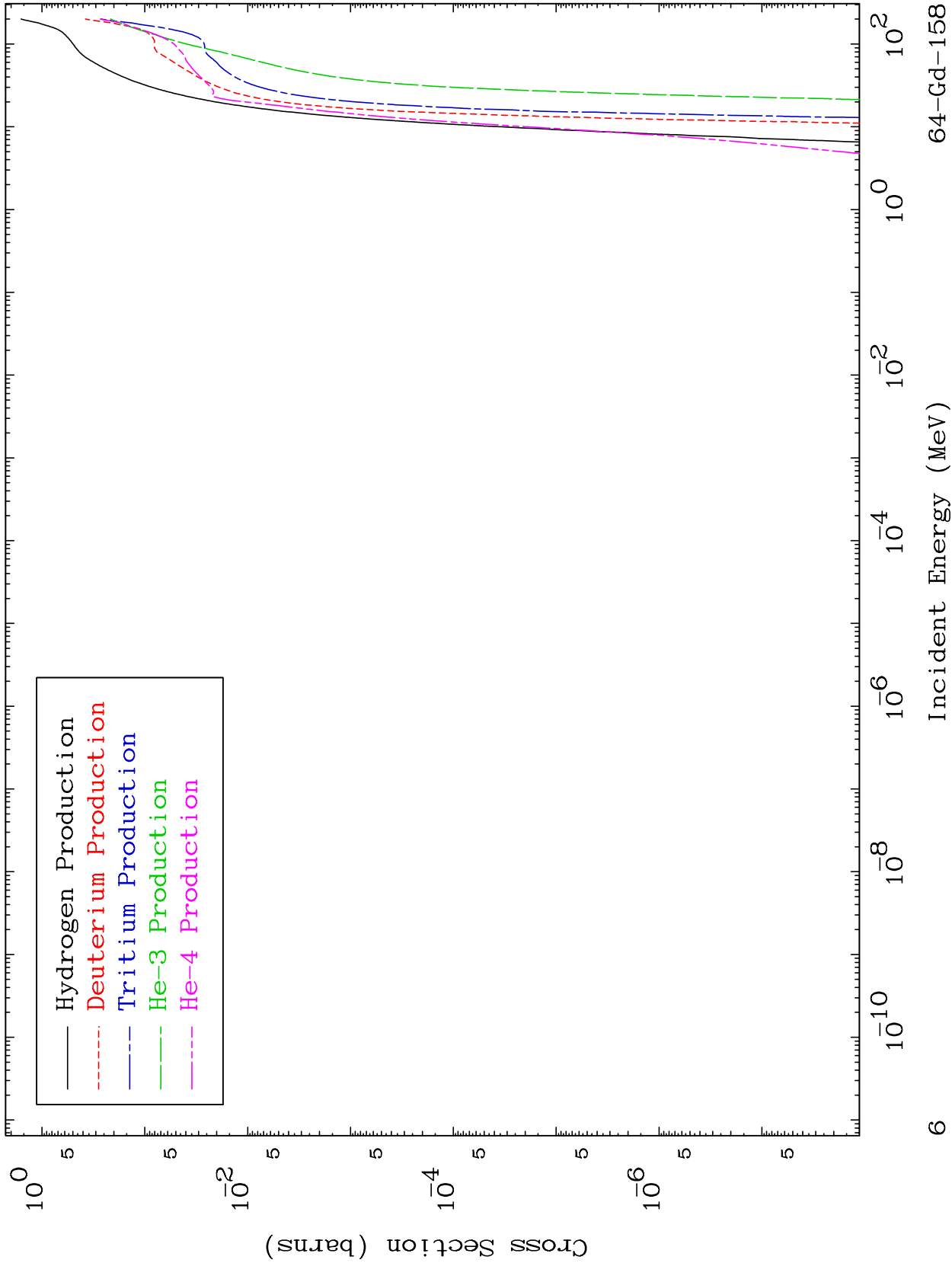
64-Gd-158



MAT 6443

Particle Production  
293 Kelvin Cross Sections

64-Gd-158

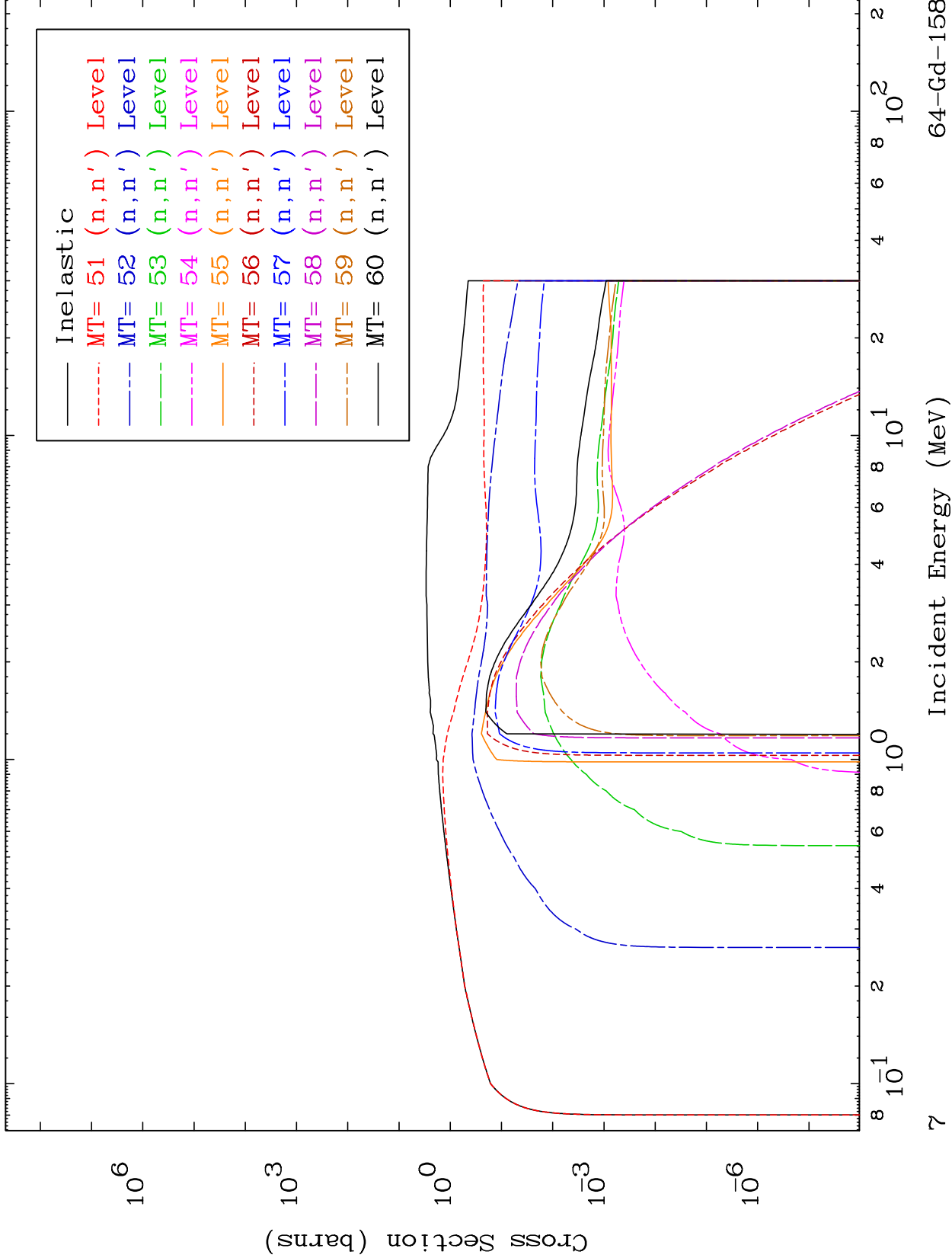


MAT 6443

(n,n') Level

64-Gd-158

293 Kelvin Cross Sections



64-Gd-158

Incident Energy (MeV)

7

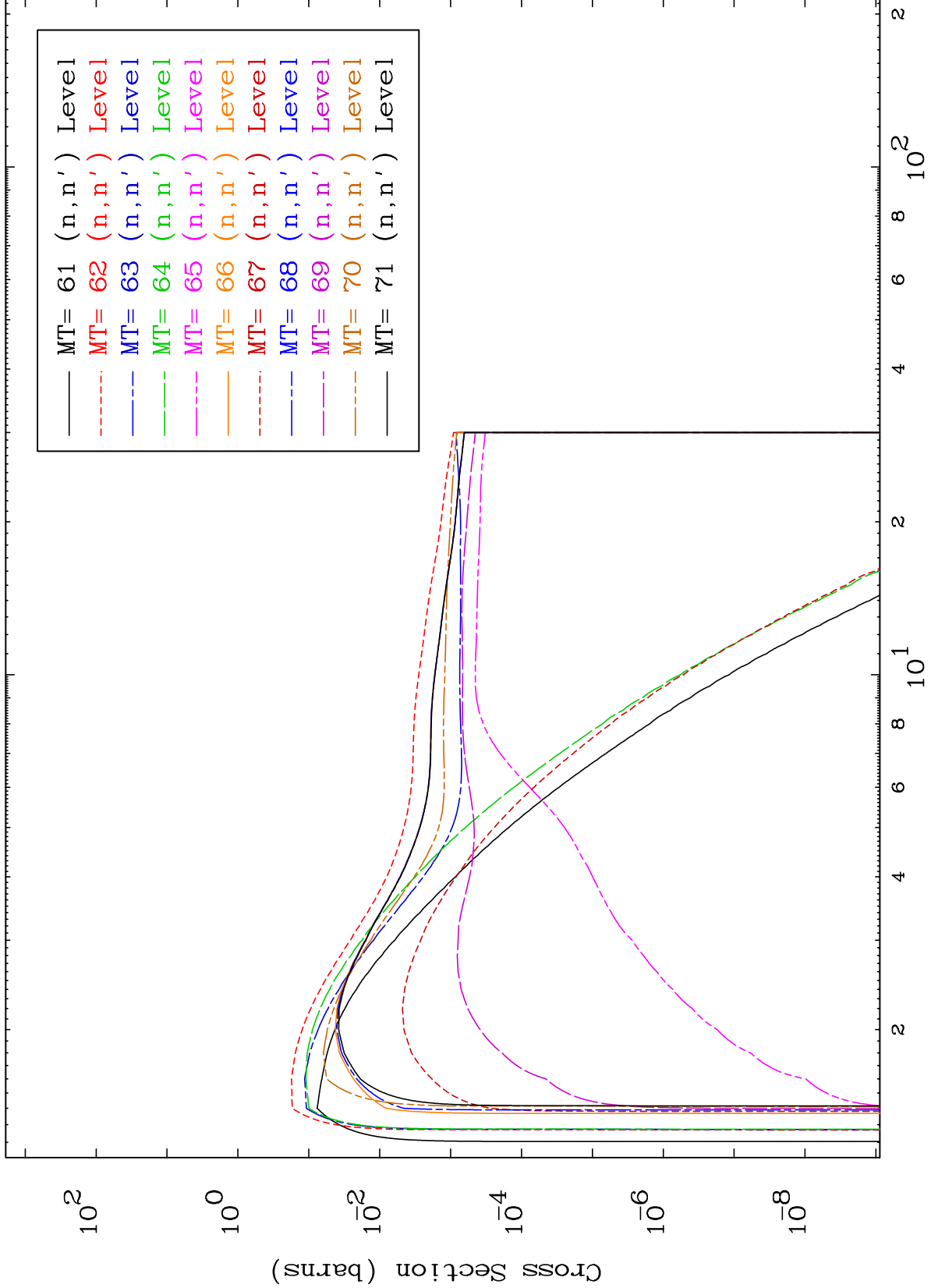


MAT 6443

(n,n') Level

64-Gd-158

293 Kelvin Cross Sections

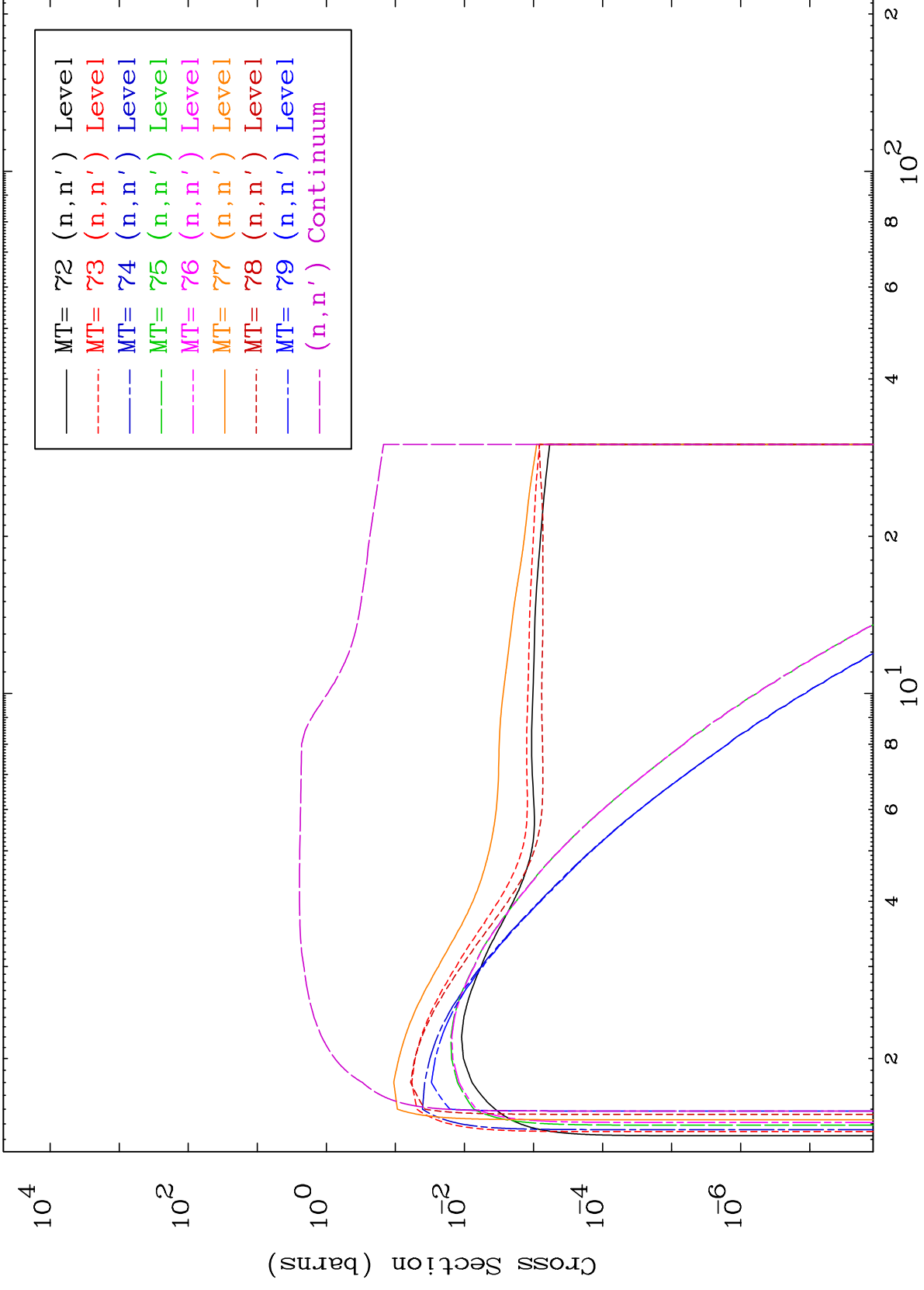


8

Incident Energy (MeV)

64-Gd-158

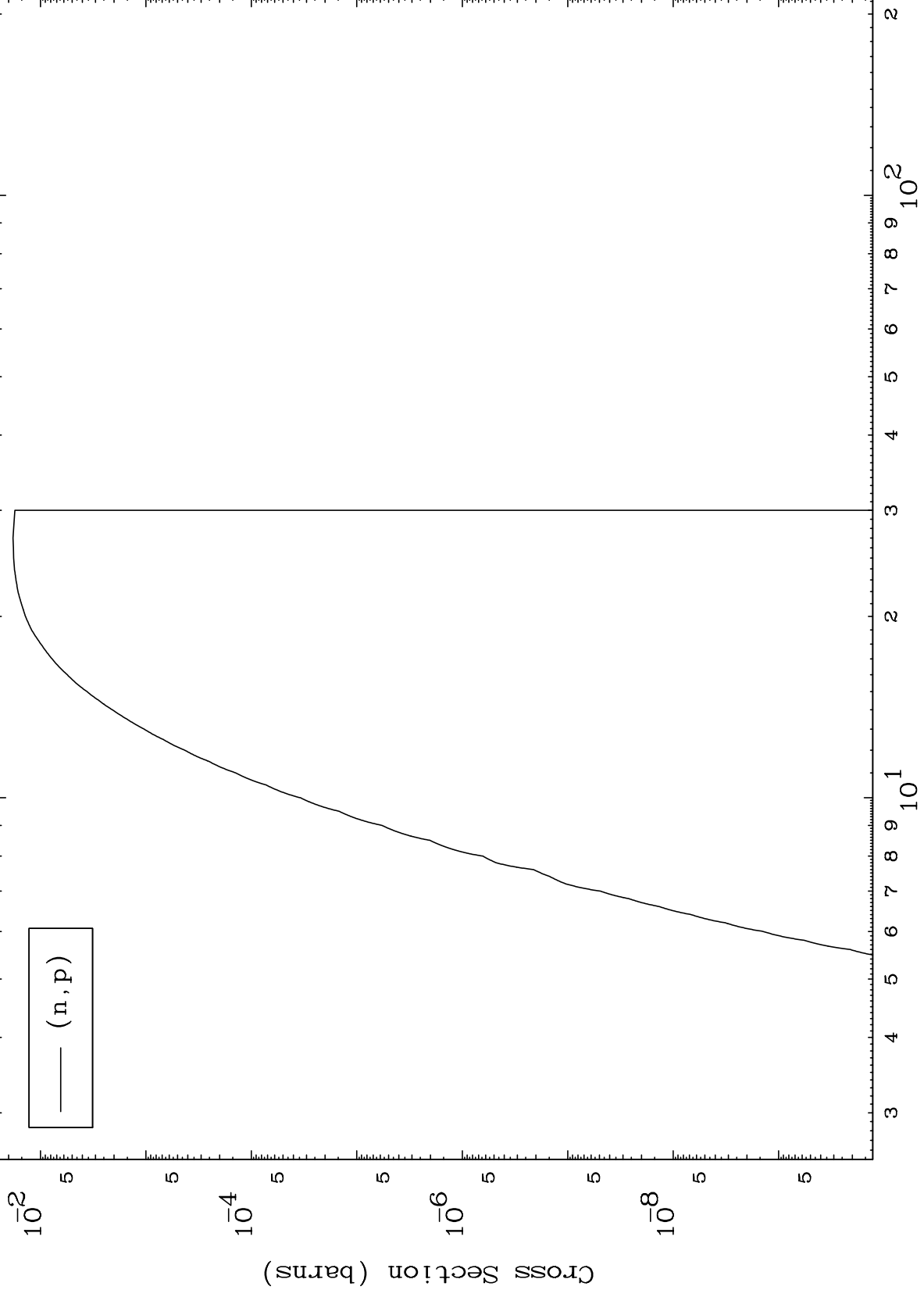
293 Kelvin Cross Sections



MAT 6443

(n,p) Levels  
293 Kelvin Cross Sections

64-Gd-158



10

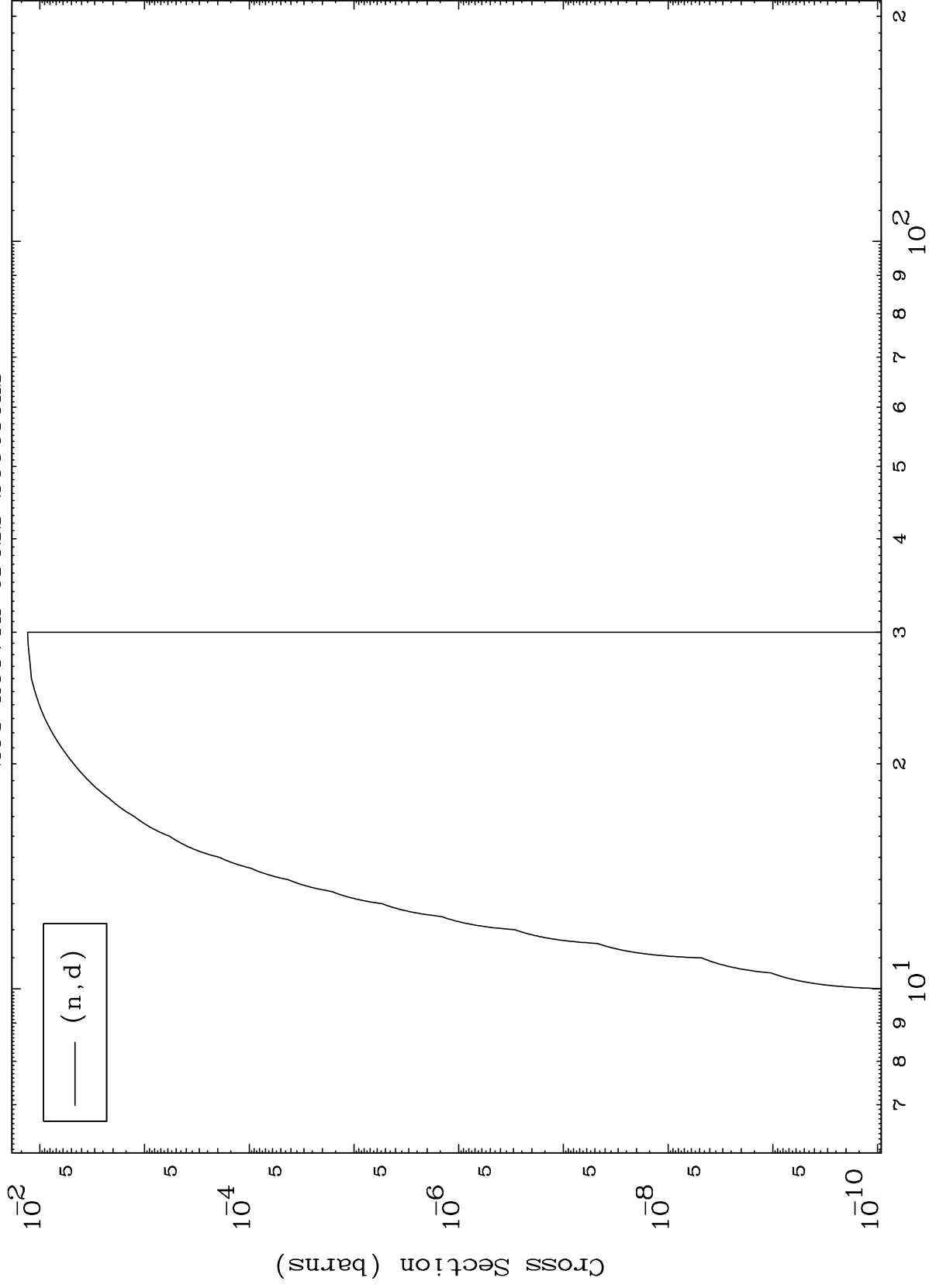
Incident Energy (MeV)

64-Gd-158

MAT 6443

(n,d) Levels  
293 Kelvin Cross Sections

64-Gd-158



11

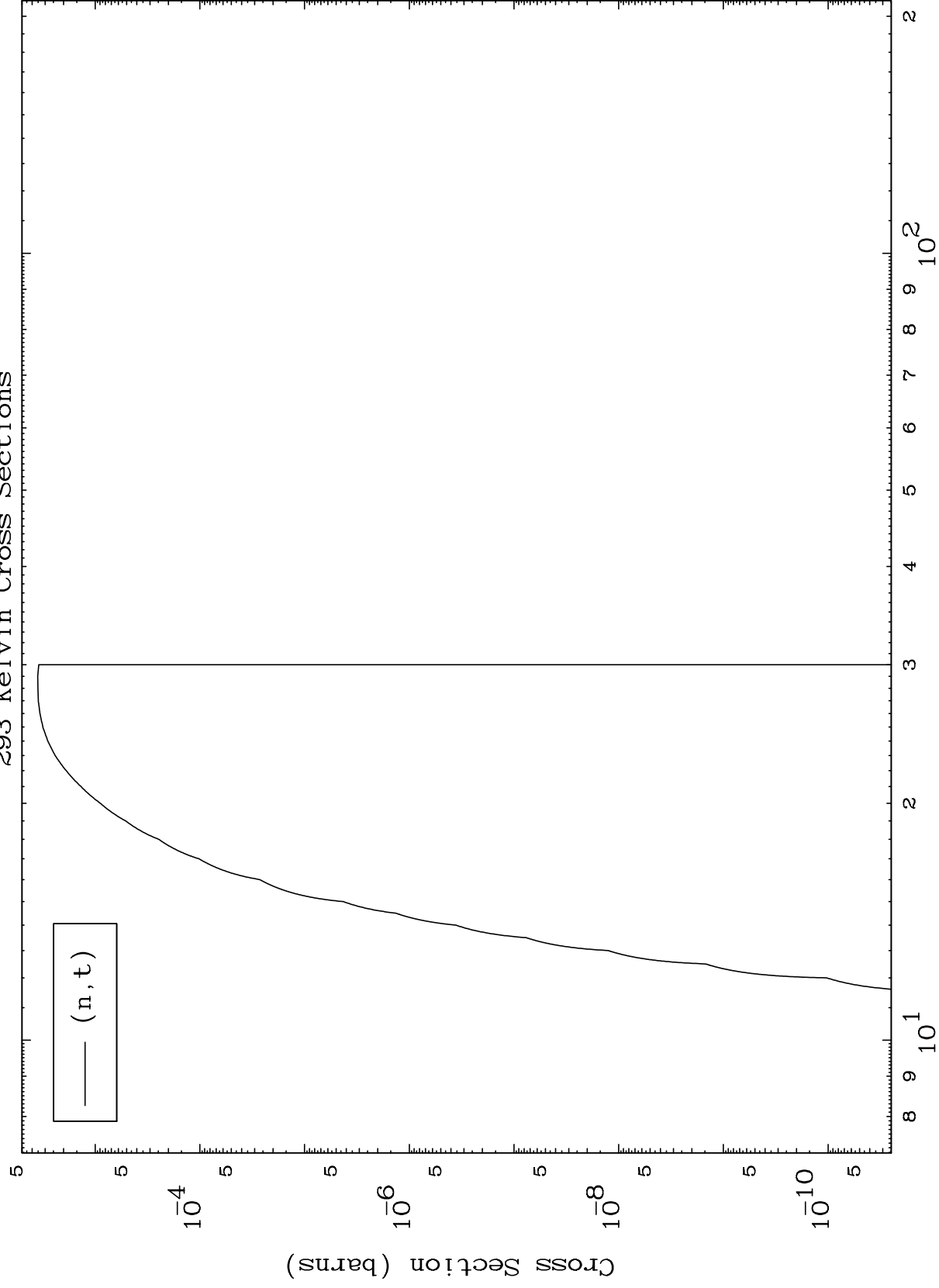
Incident Energy (MeV)

64-Gd-158

MAT 6443

(n,t) Levels  
293 Kelvin Cross Sections

64-Gd-158



12

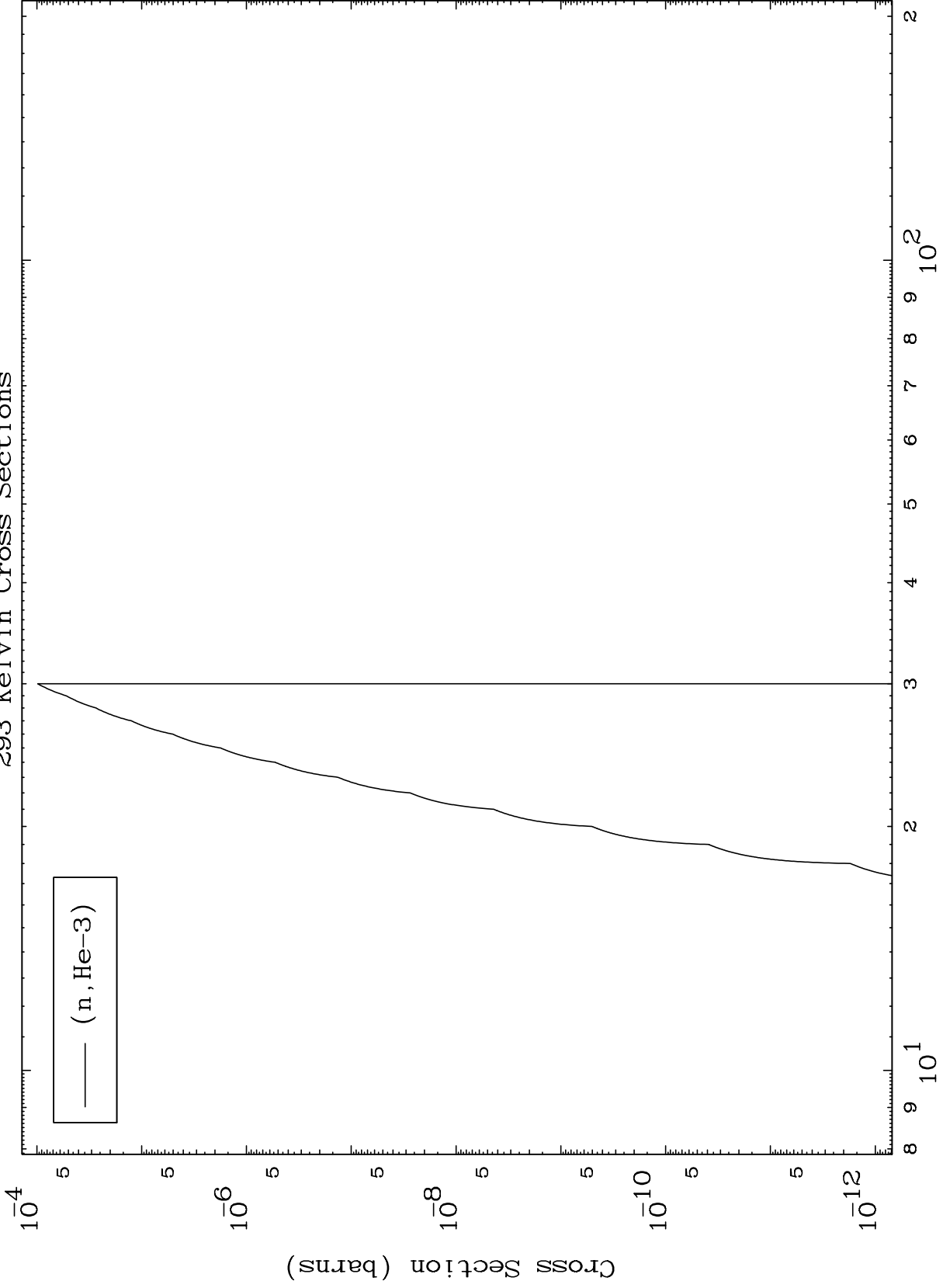
Incident Energy (MeV)

64-Gd-158

MAT 6443

(n,He3) Levels  
293 Kelvin Cross Sections

64-Gd-158



13

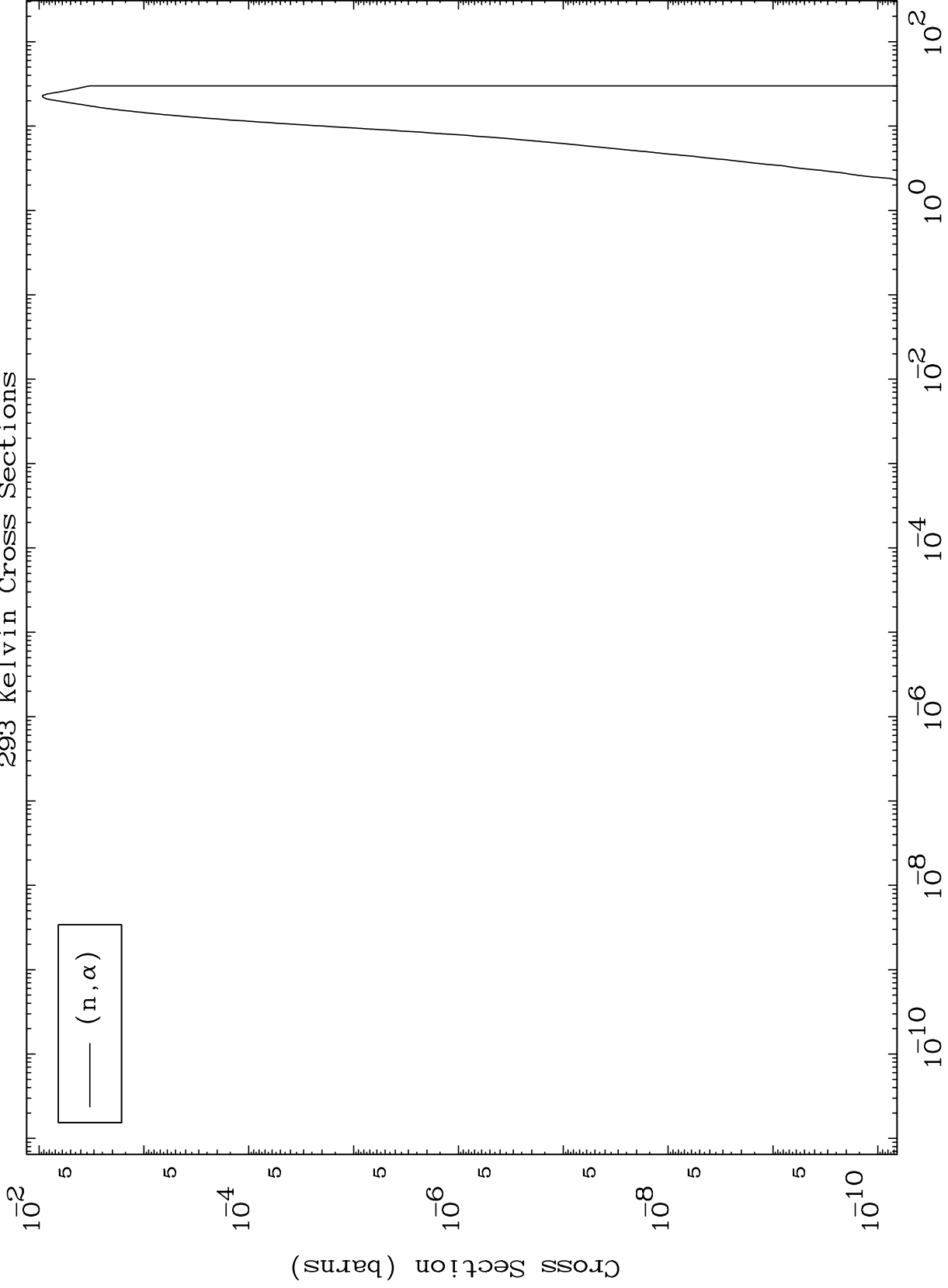
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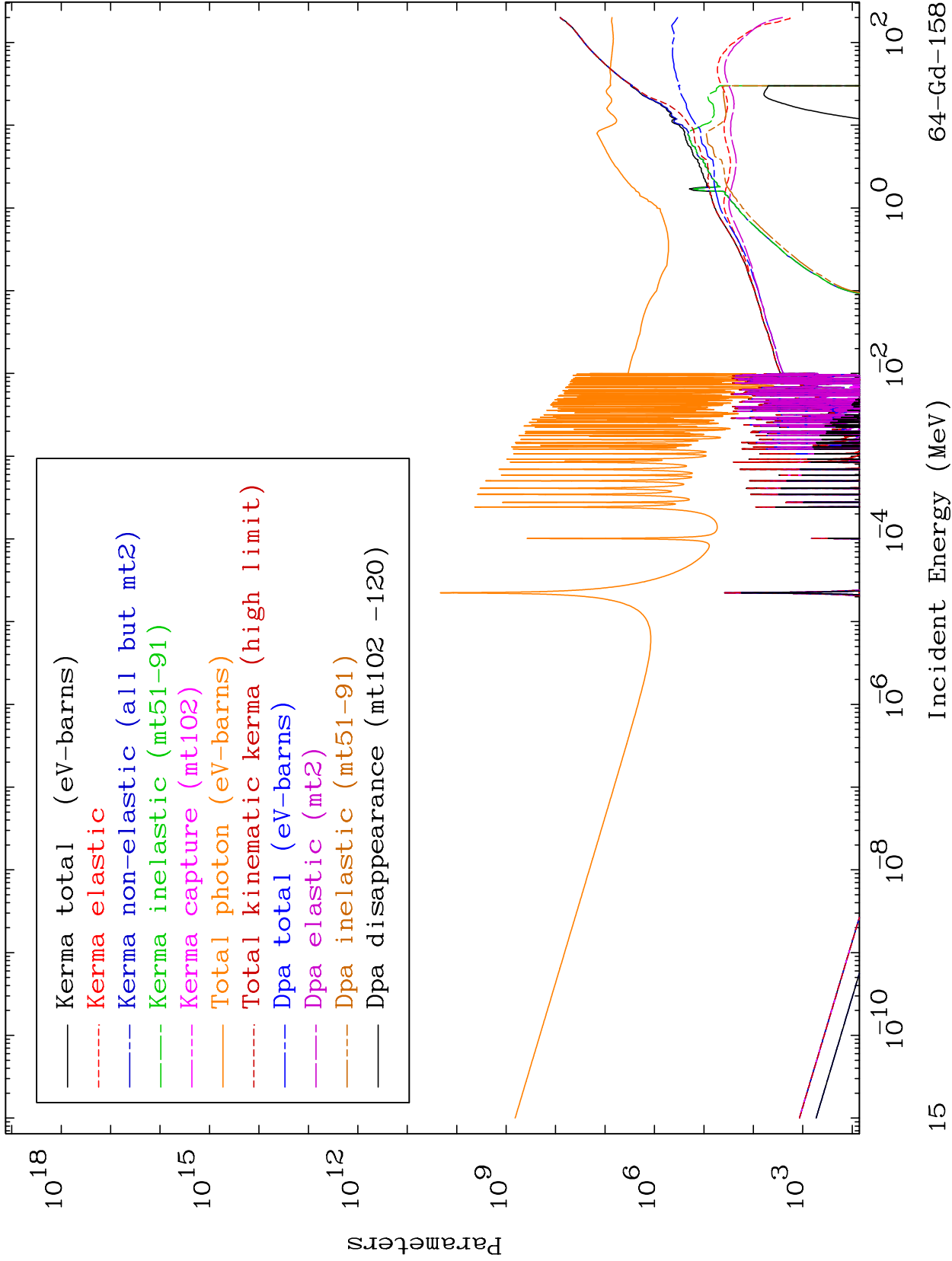
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MAT 6443

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

64-Gd-158



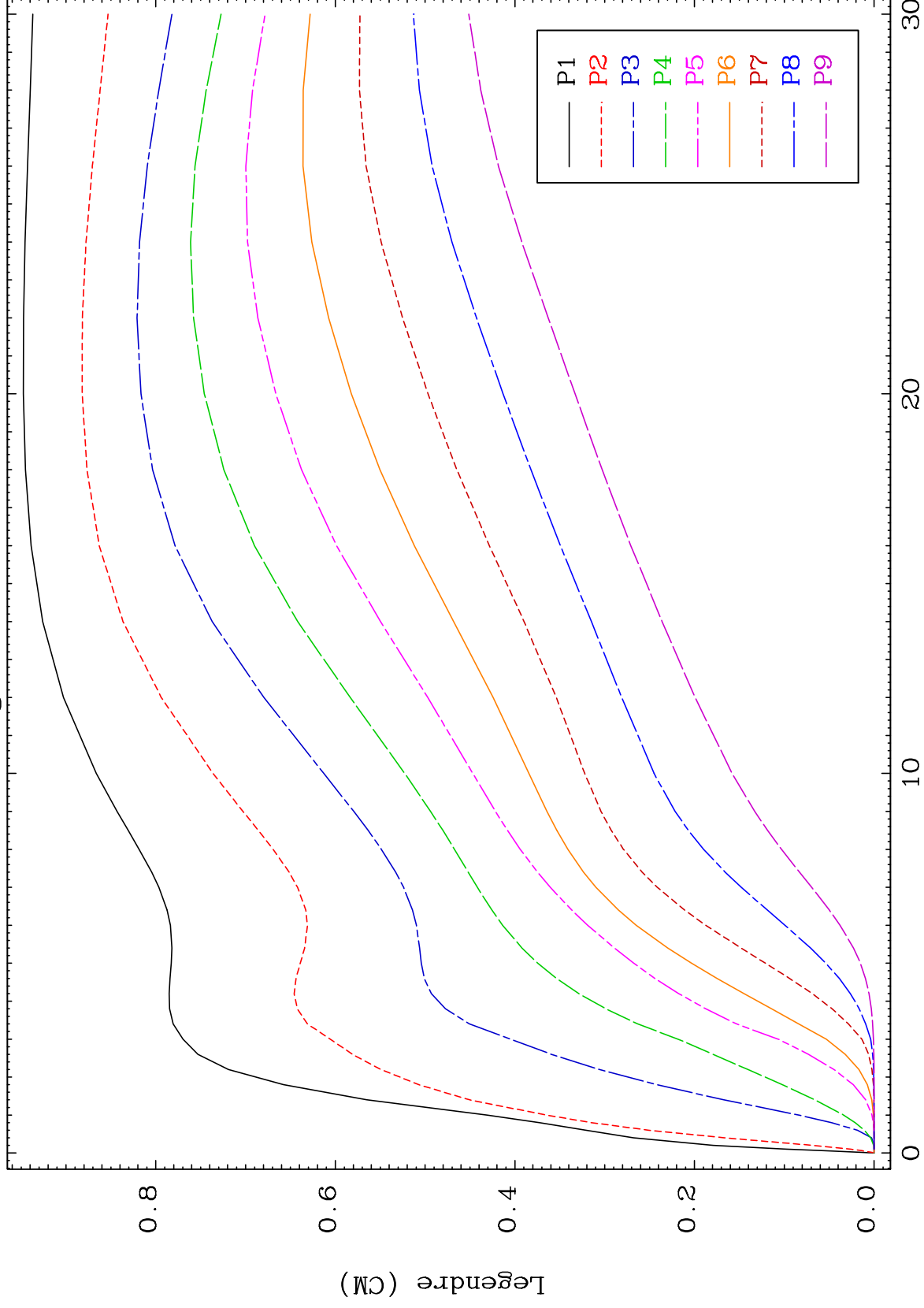




MAT 6443

Elastic Legendre Coefficients

64-Gd-158



16

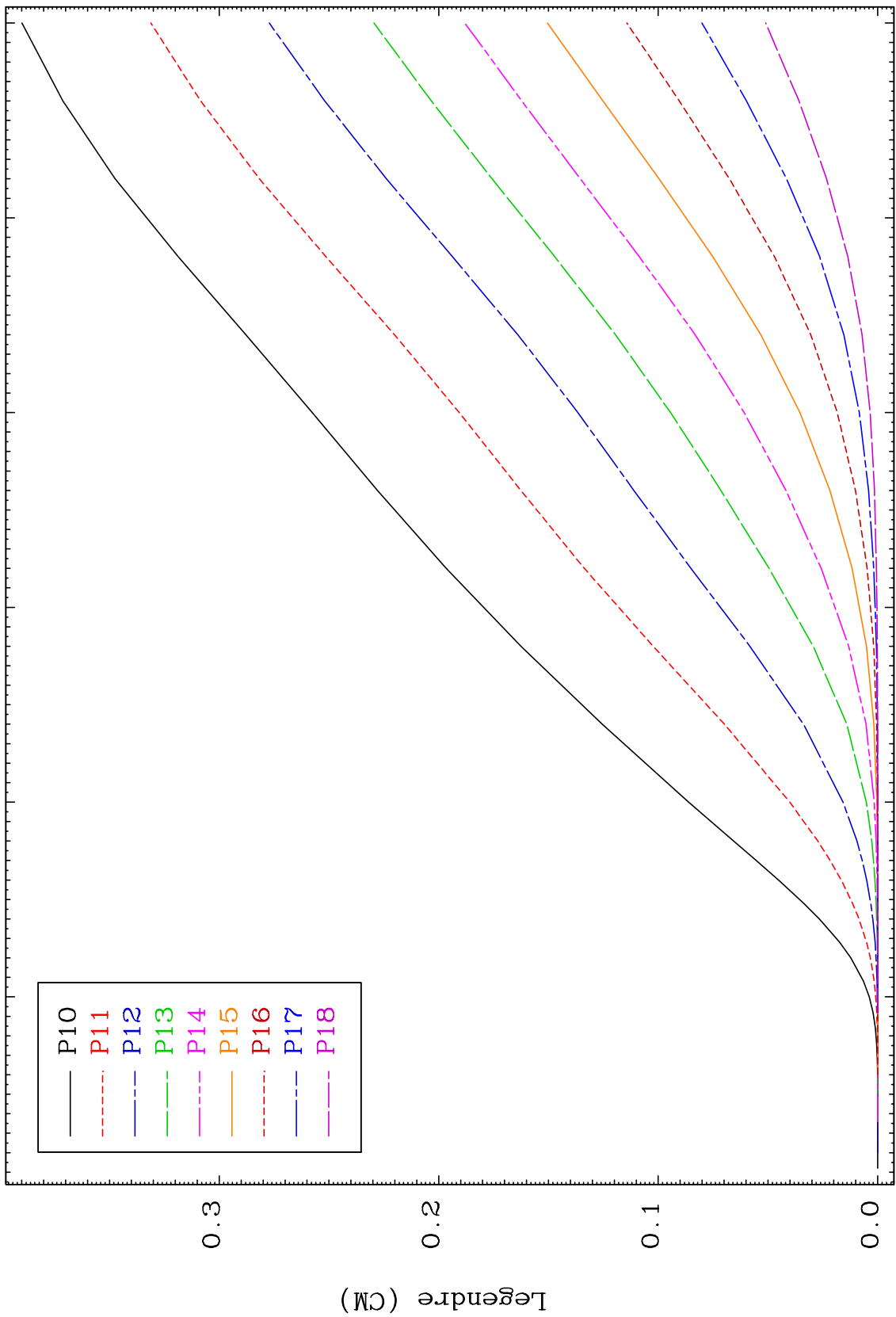
Incident Energy (MeV)

64-Gd-158

MAT 6443

Elastic Legendre Coefficients

64-Gd-158



17

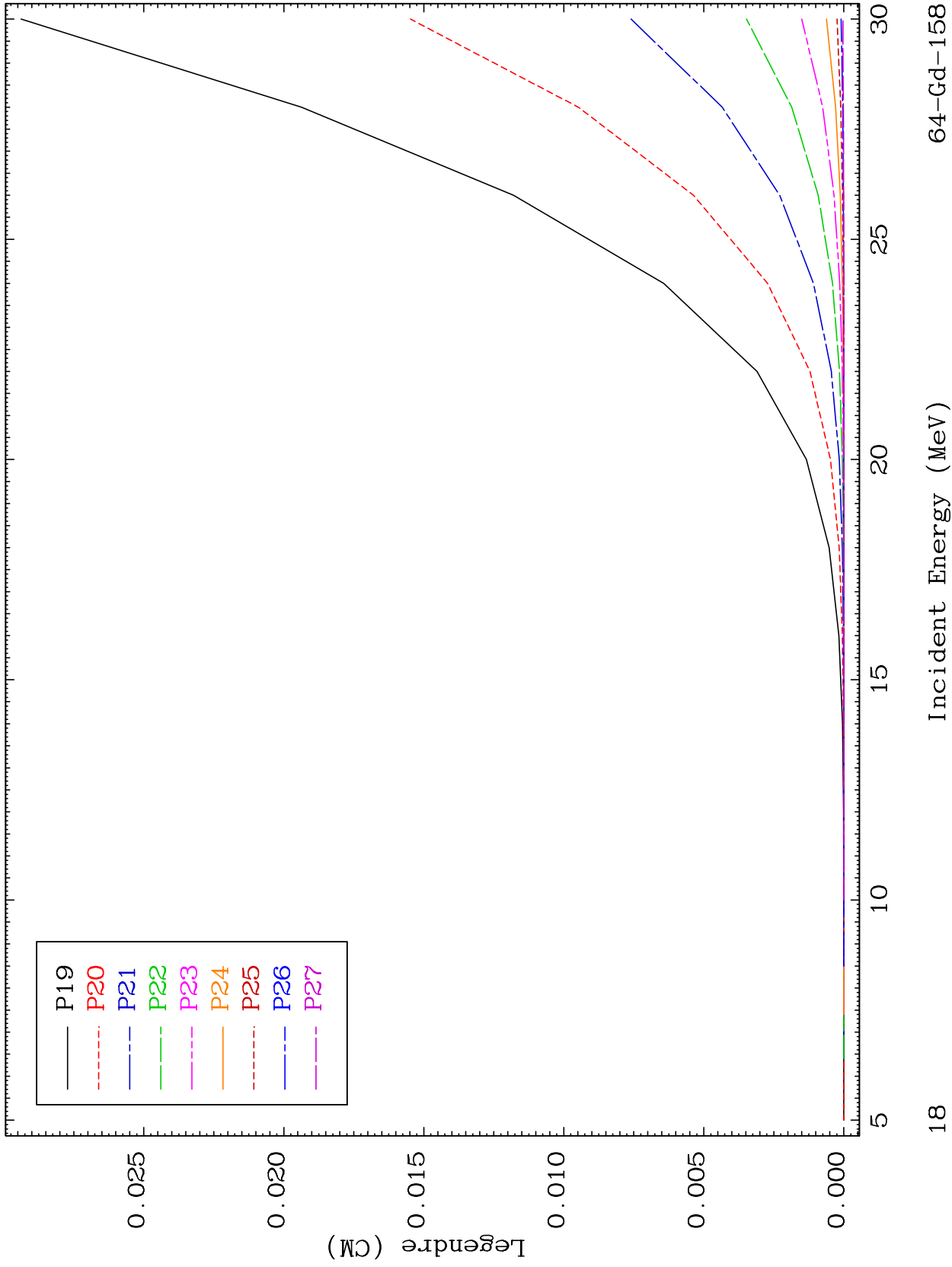
64-Gd-158

Incident Energy (MeV)

MAT 6443

### Elastic Legendre Coefficients

64-Gd-158



18

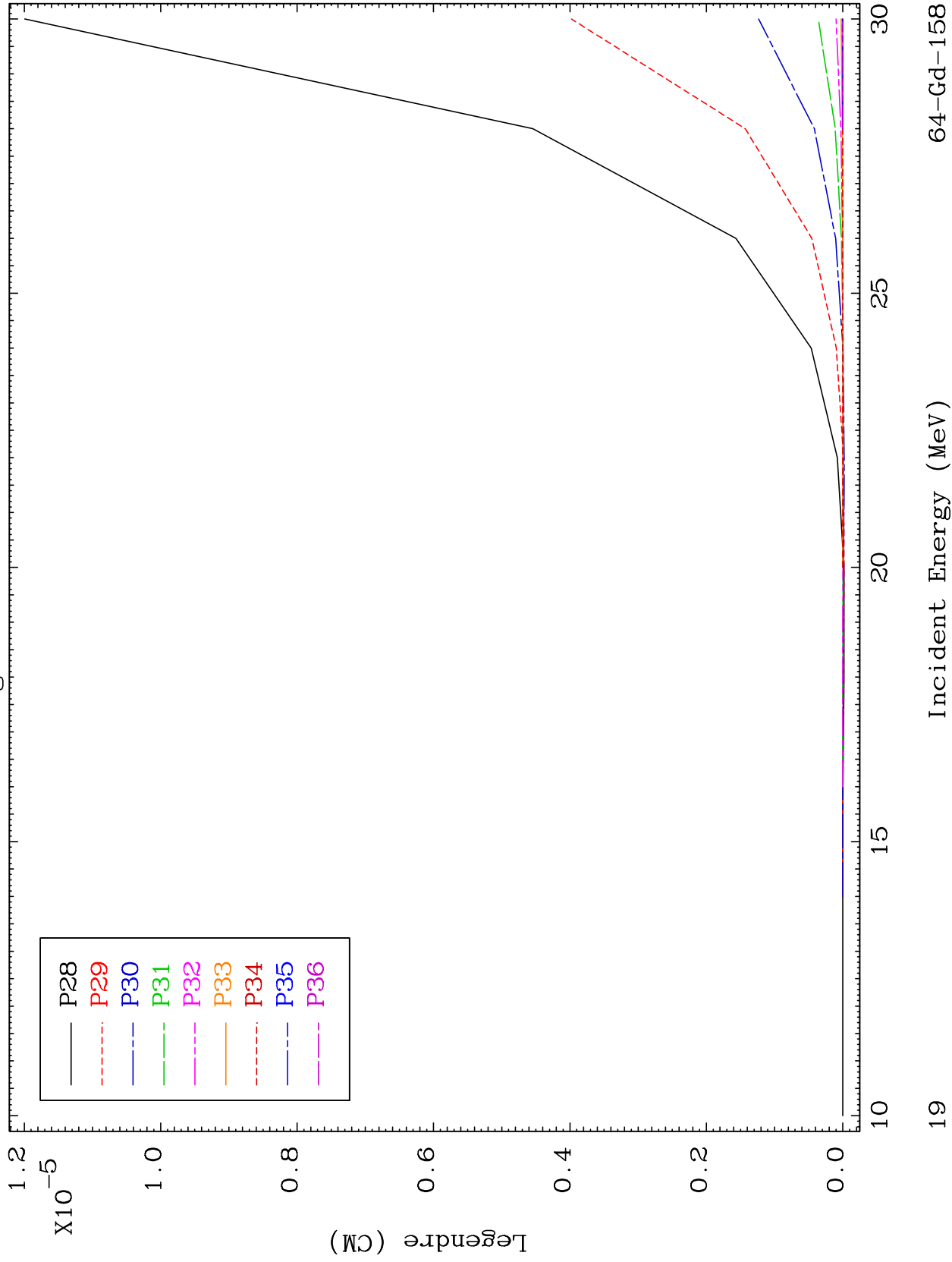
Incident Energy (MeV)

64-Gd-158

MAT 6443

### Elastic Legendre Coefficients

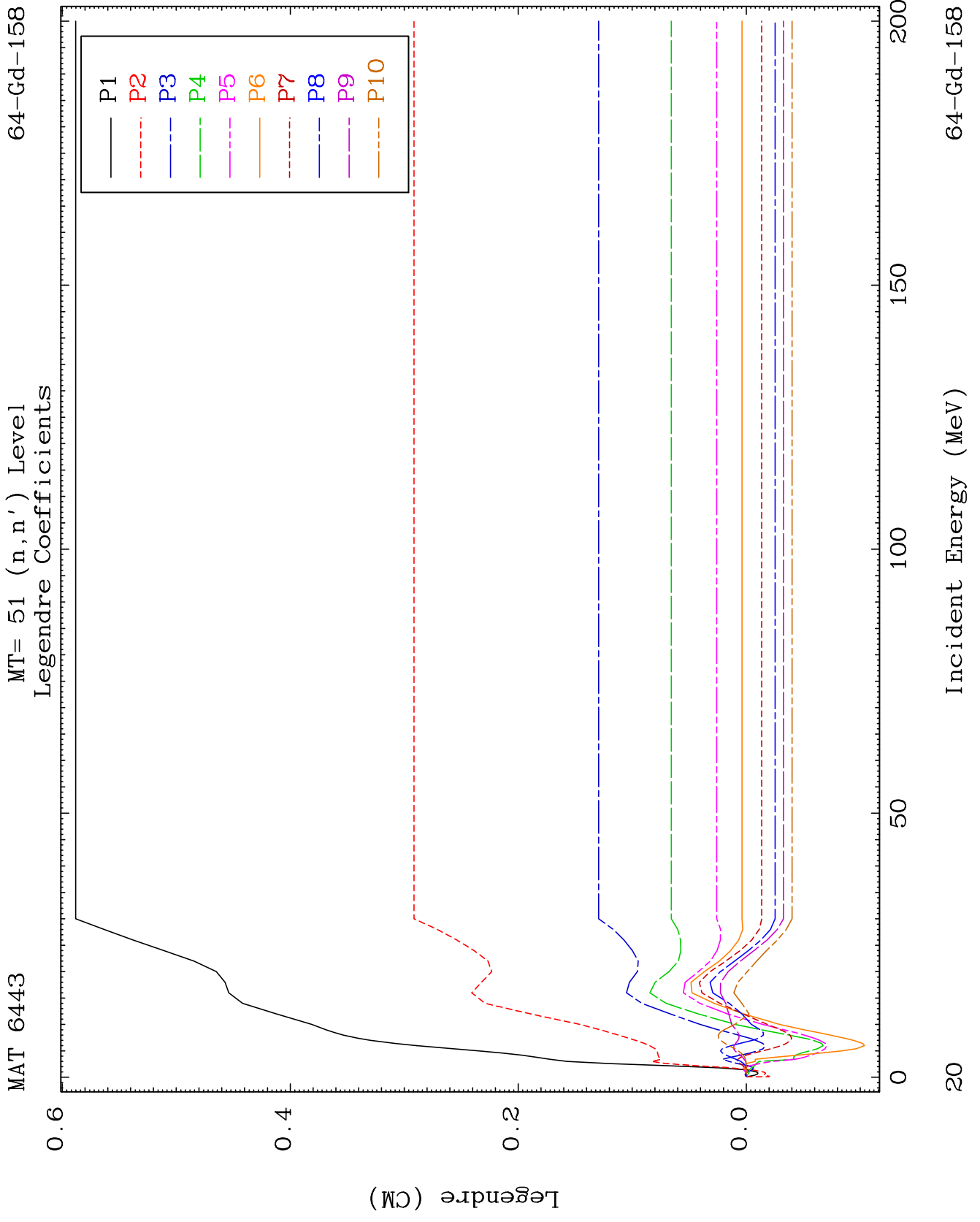
64-Gd-158



19

Incident Energy (MeV)

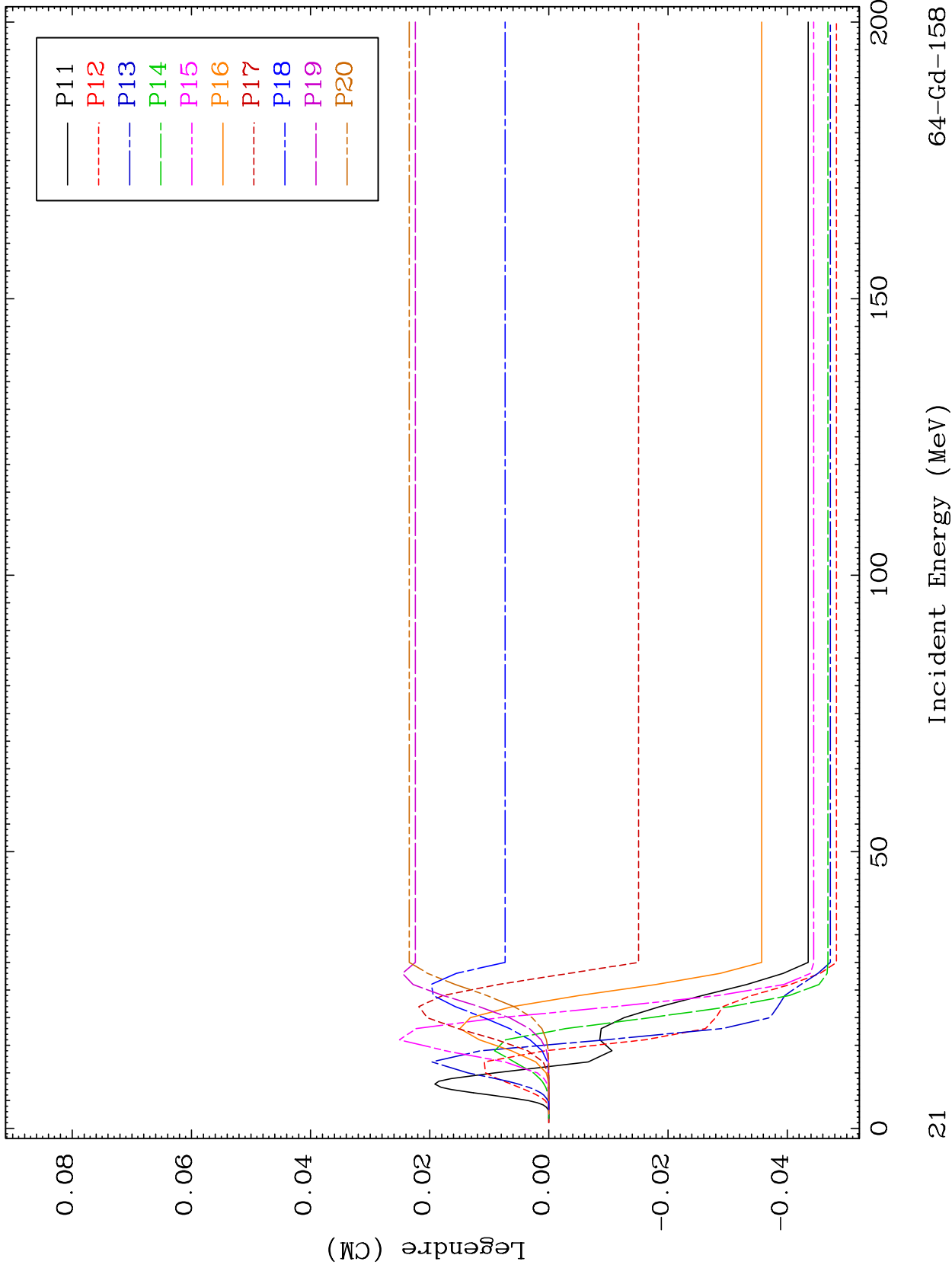
64-Gd-158



MAT 6443

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

64-Gd-158



21

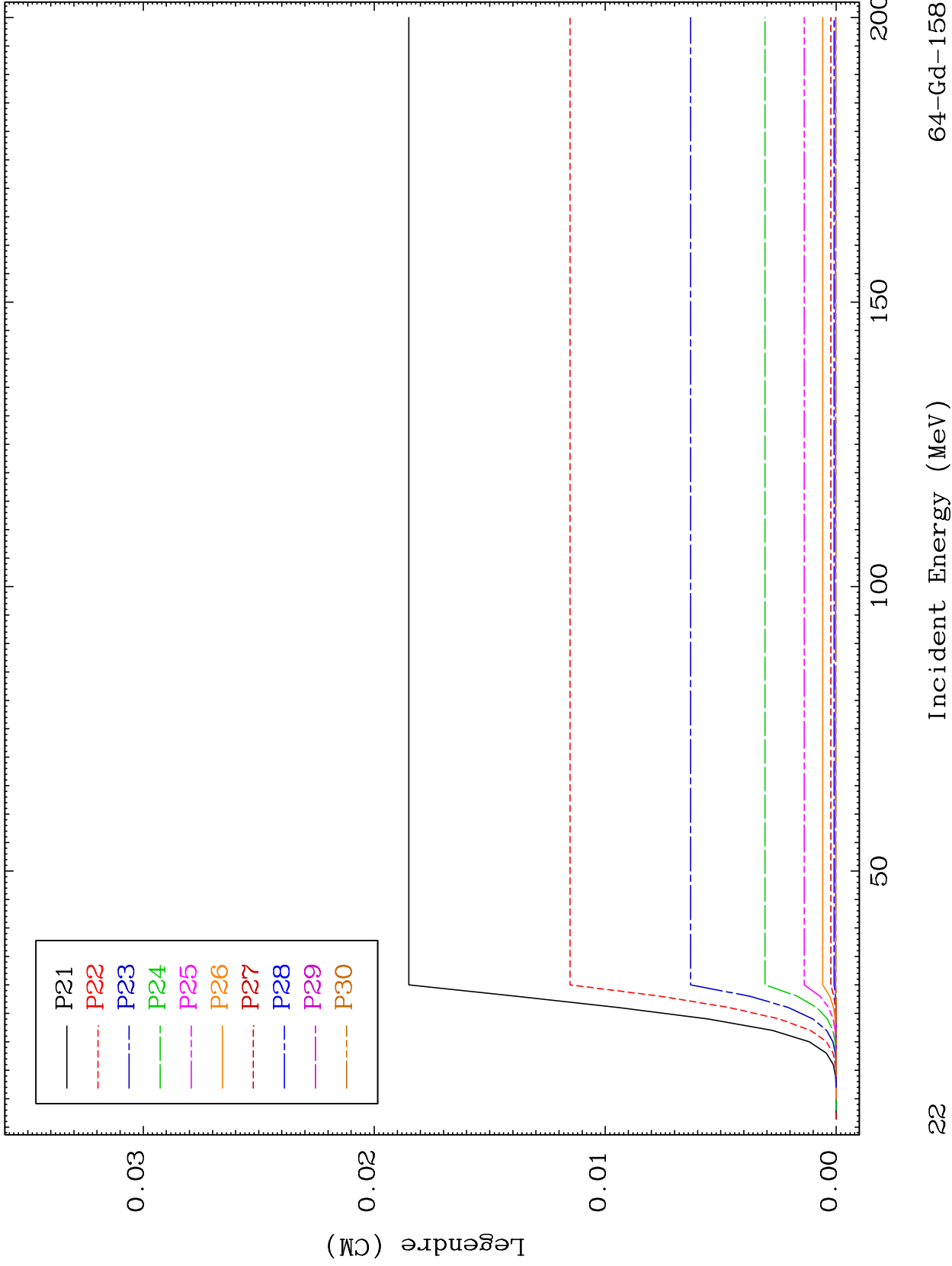
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



22

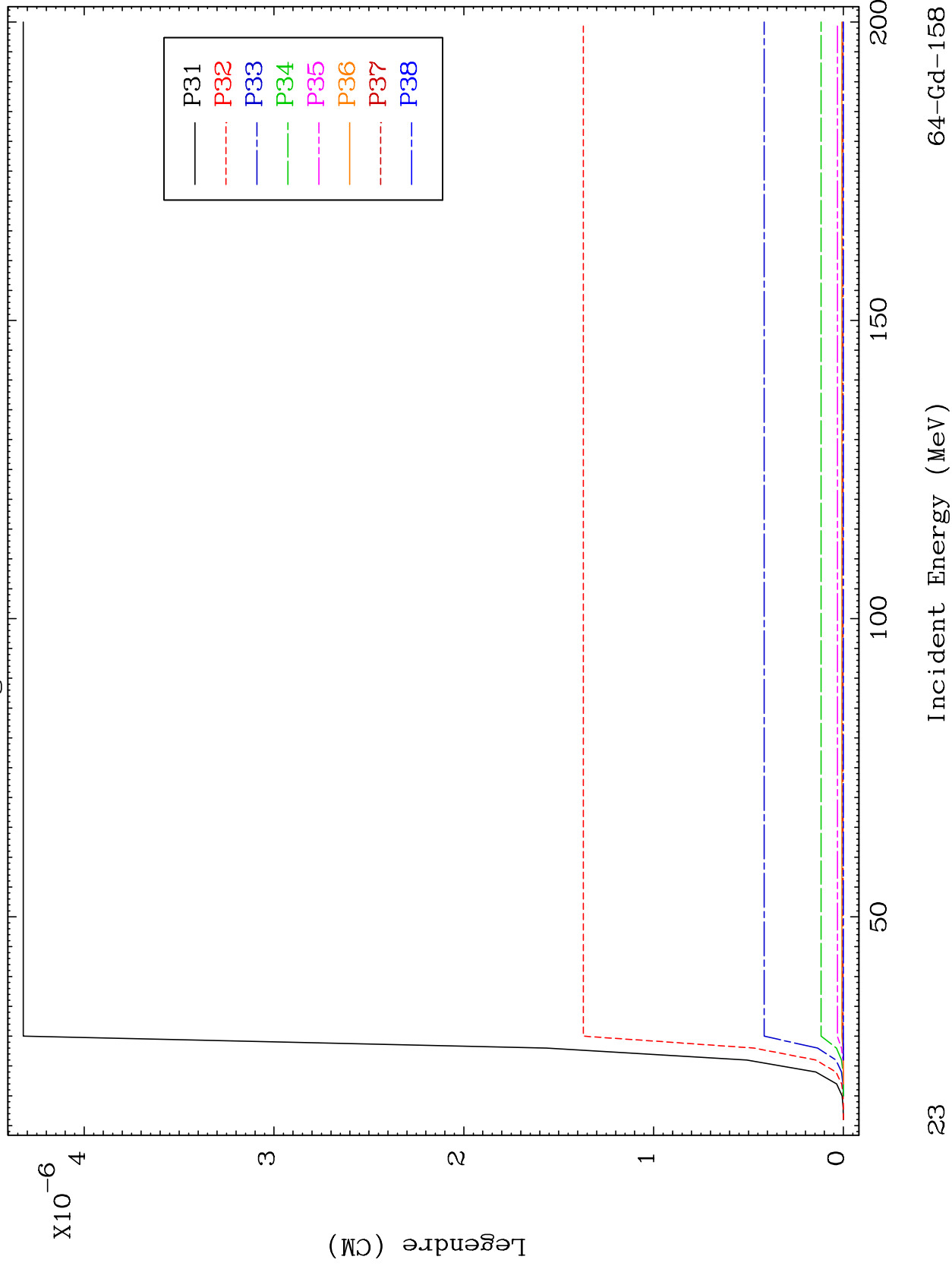
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158

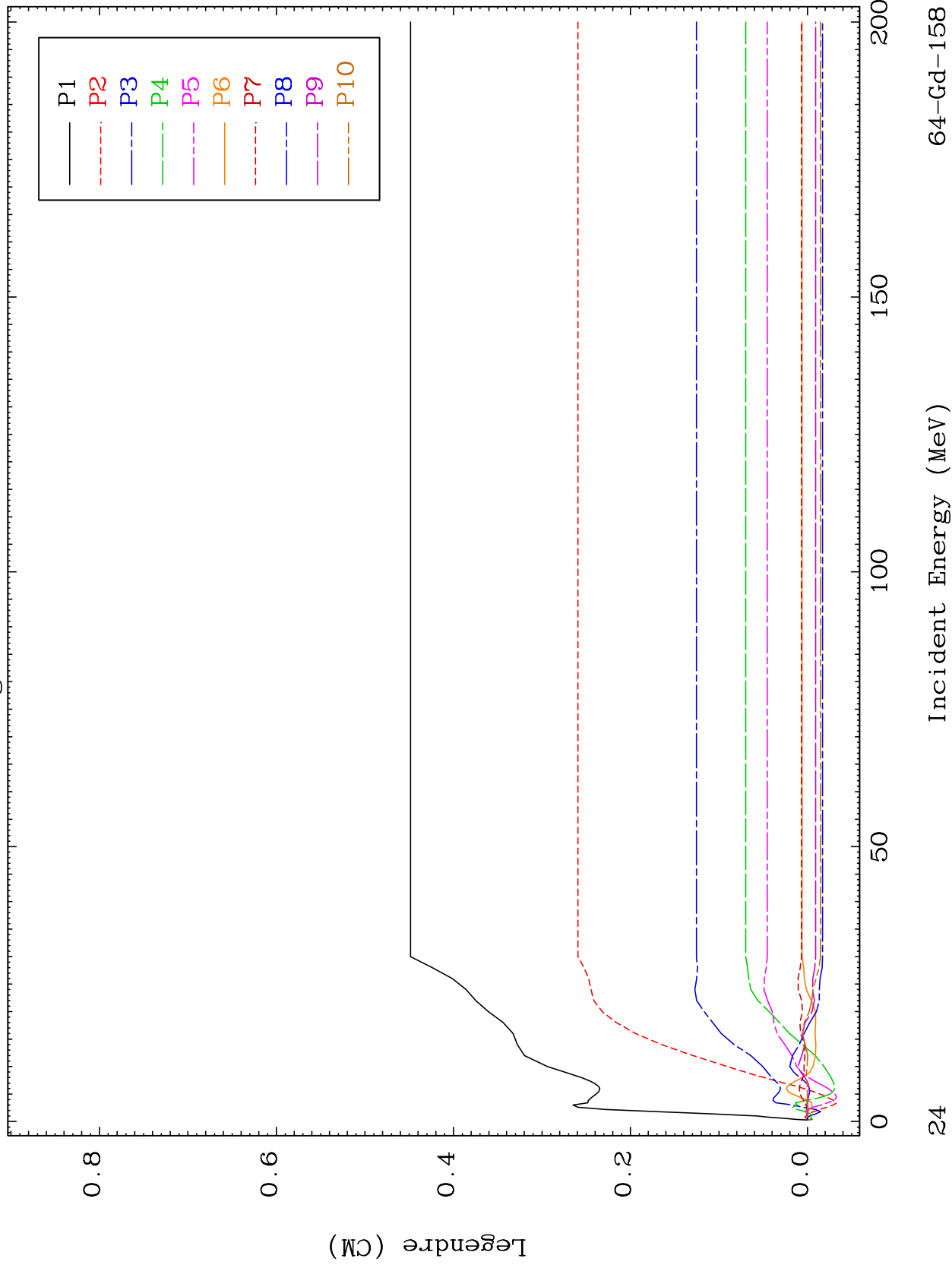




MAT 6443

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

64-Gd-158



64-Gd-158

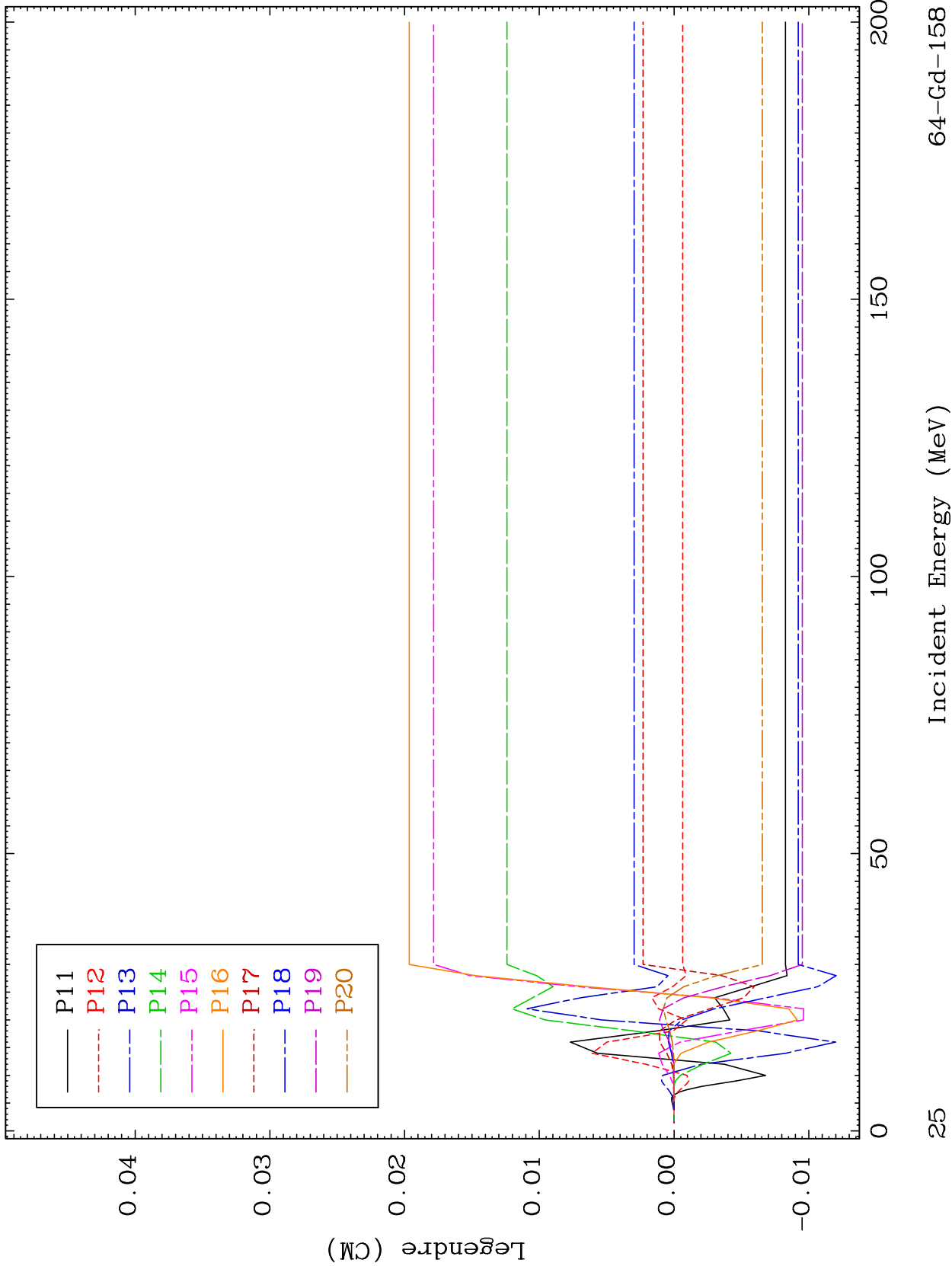
Incident Energy (MeV)

24

MAT 6443

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

64-Gd-158



64-Gd-158

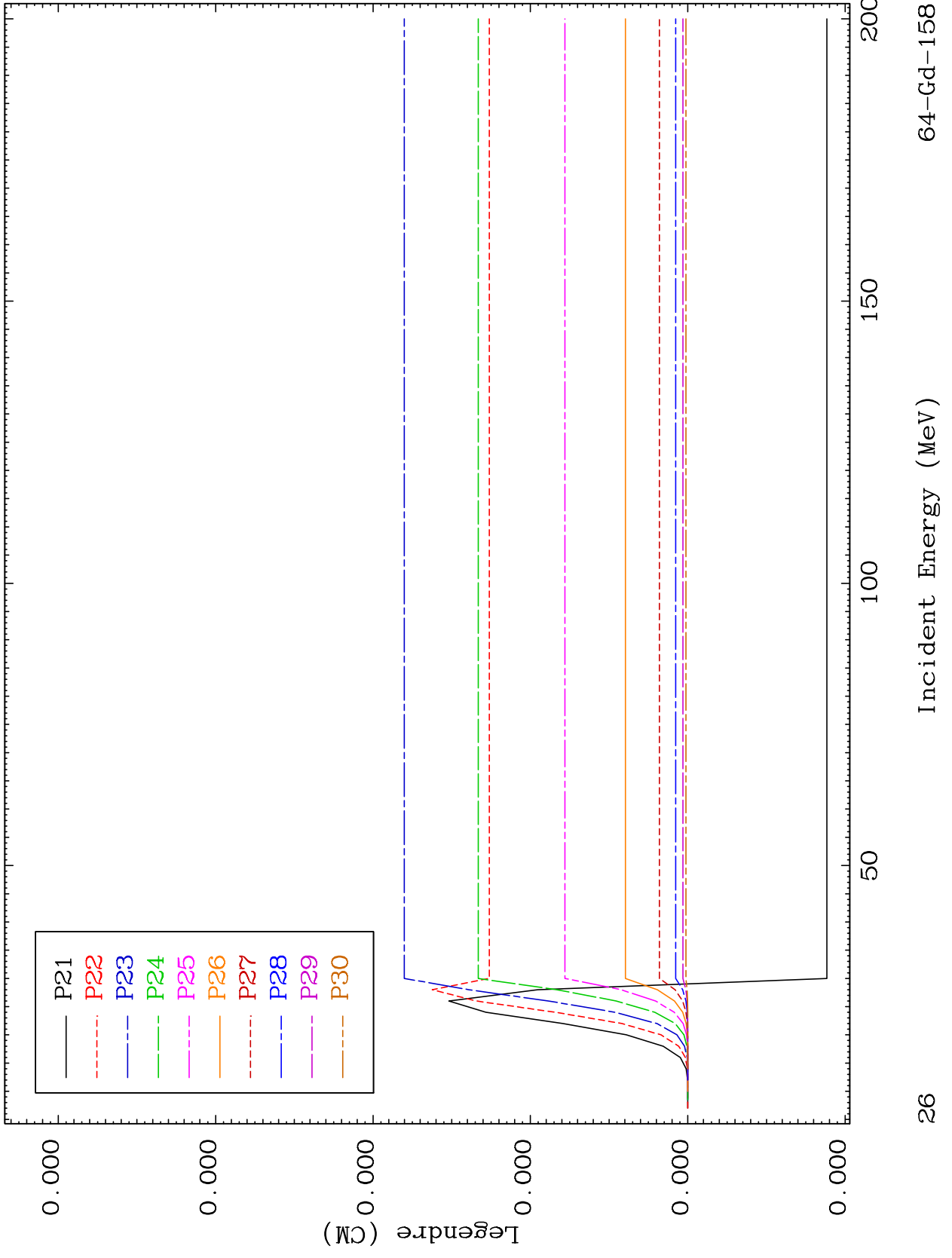
Incident Energy (MeV)

25

MAT 6443

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

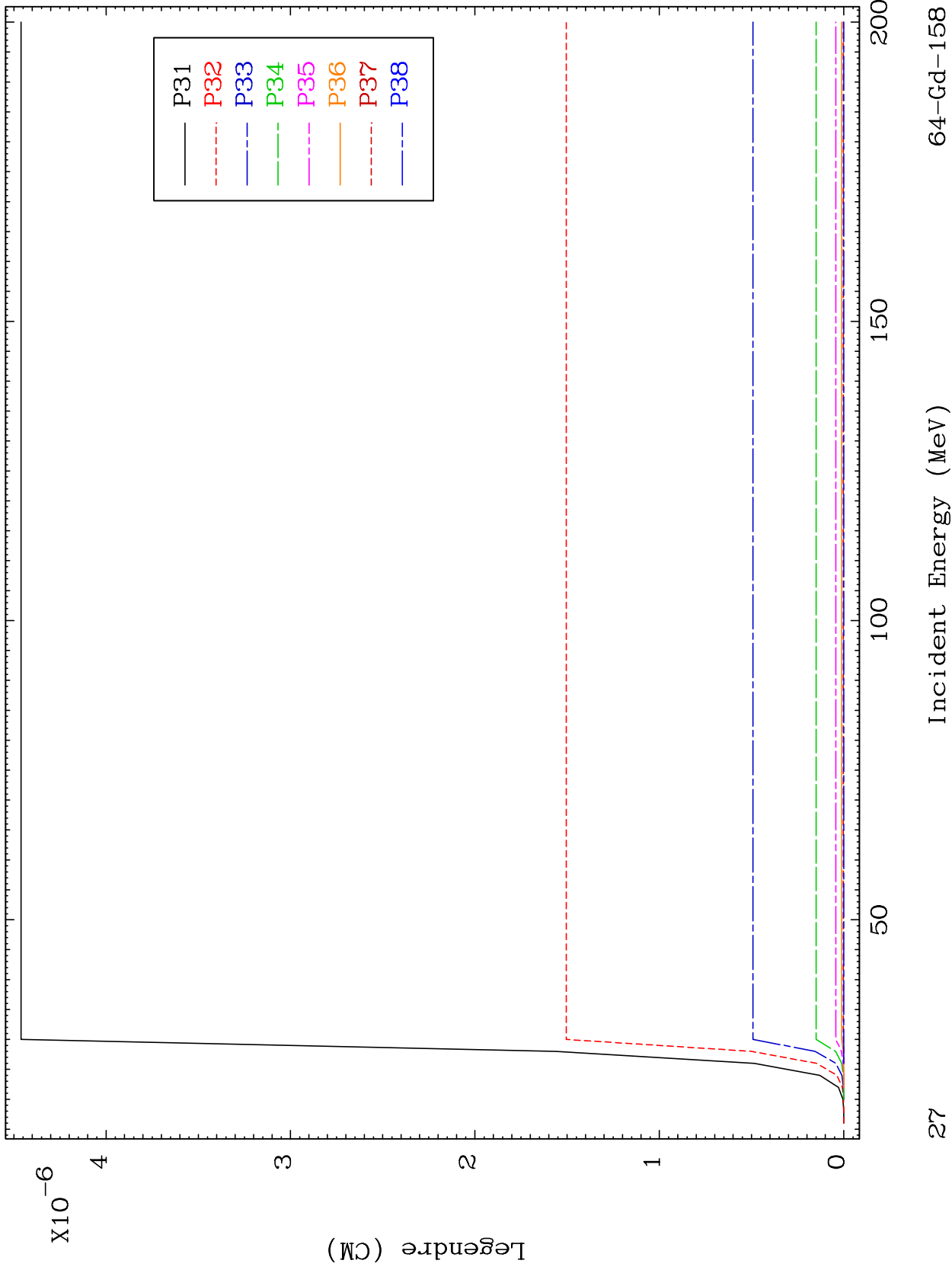
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MAT 6443

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

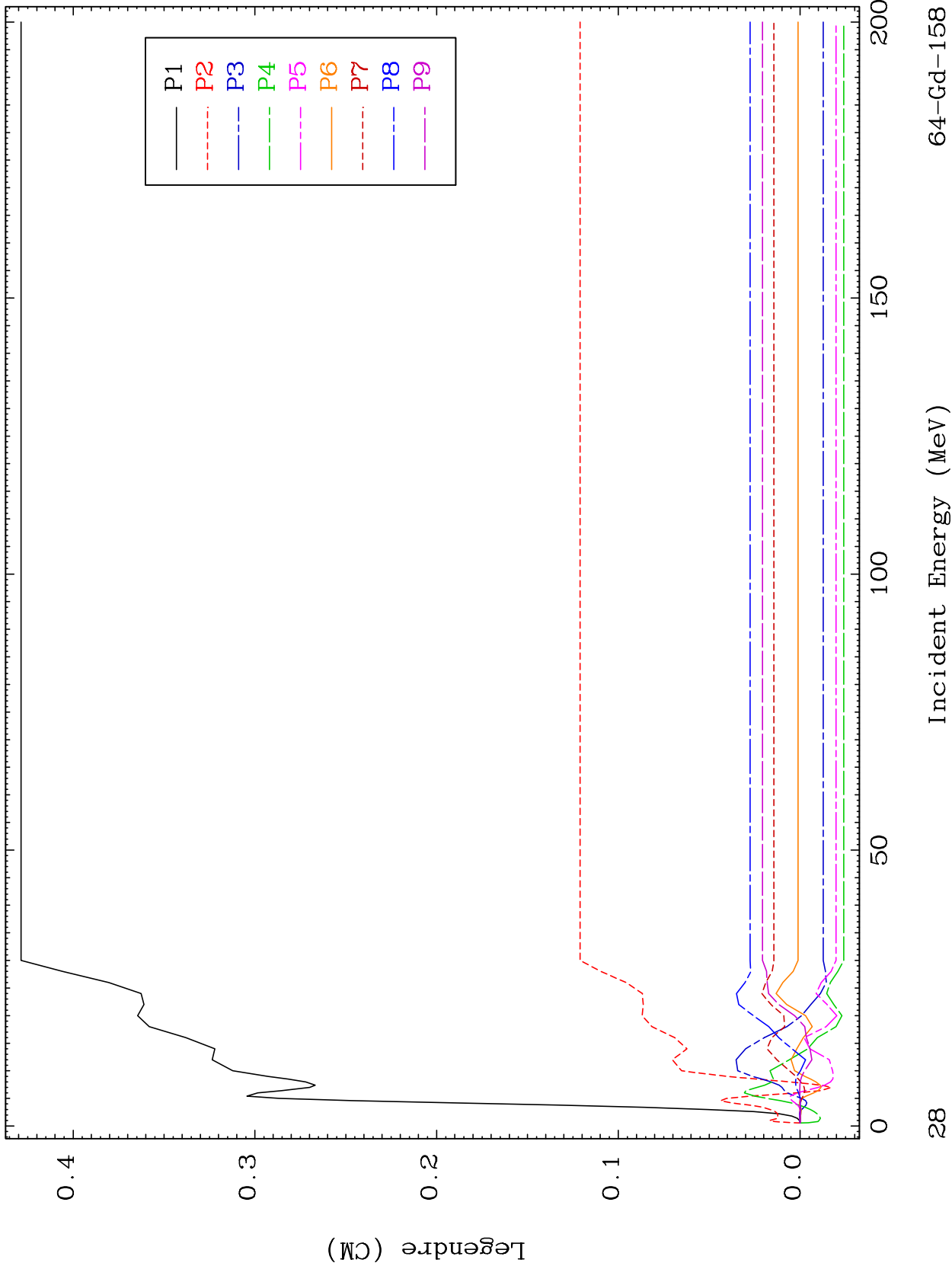
64-Gd-158



MAT 6443

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

64-Gd-158



64-Gd-158

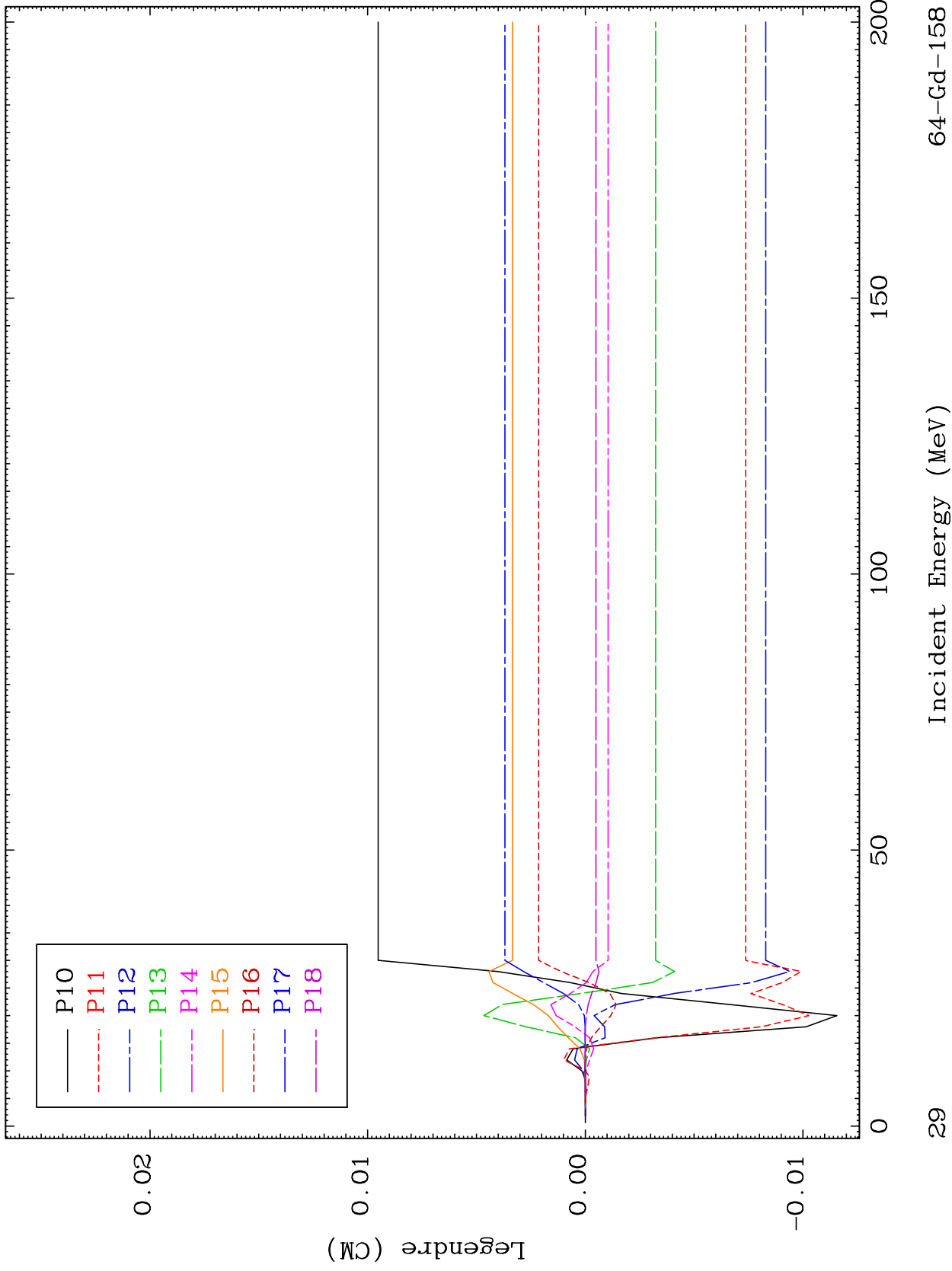
Incident Energy (MeV)

28

MAT 6443

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

64-Gd-158



29

Incident Energy (MeV)

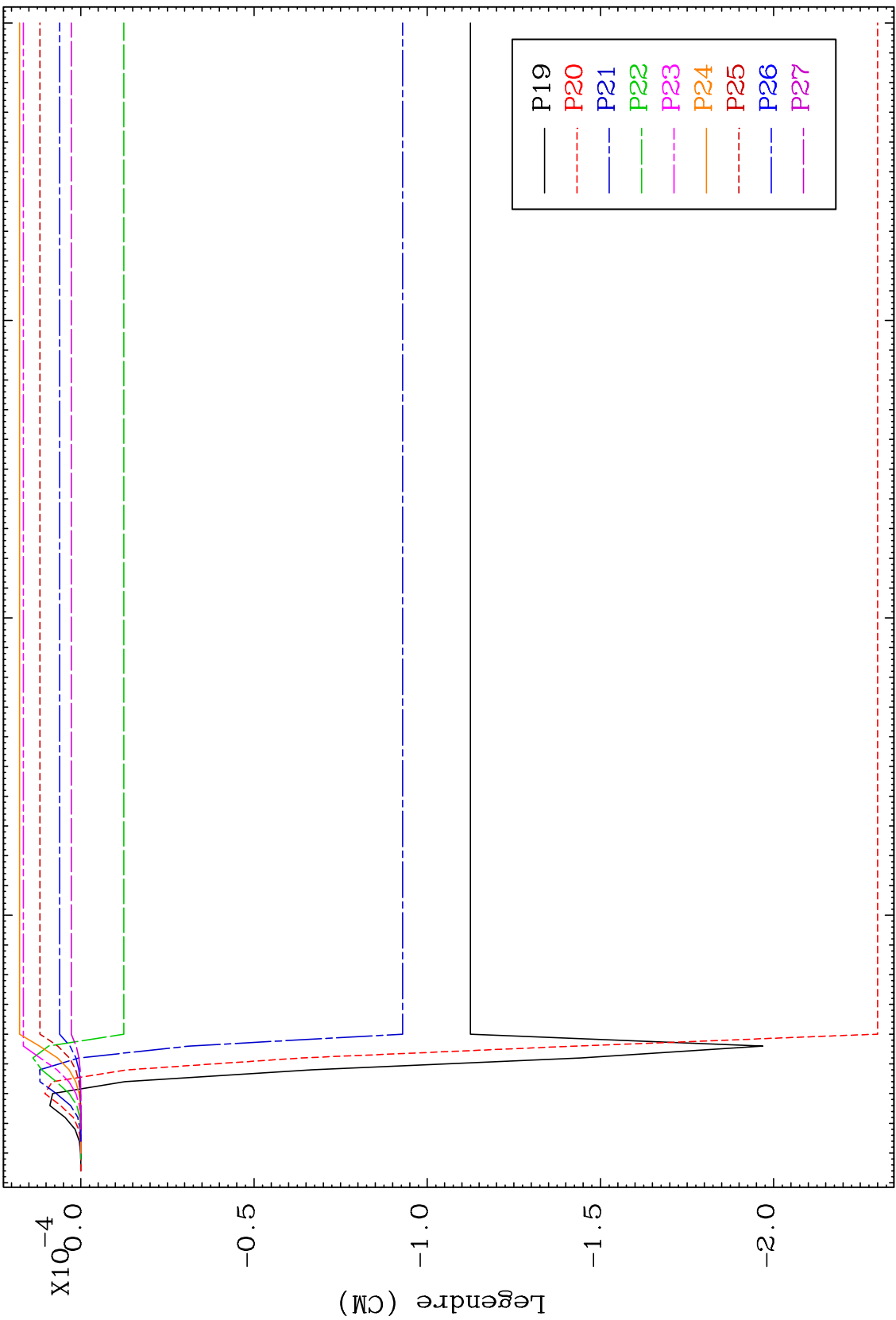
64-Gd-158

MAT 6443

MT= 53 (n,n') Level

64-Gd-158

Legendre Coefficients



64-Gd-158

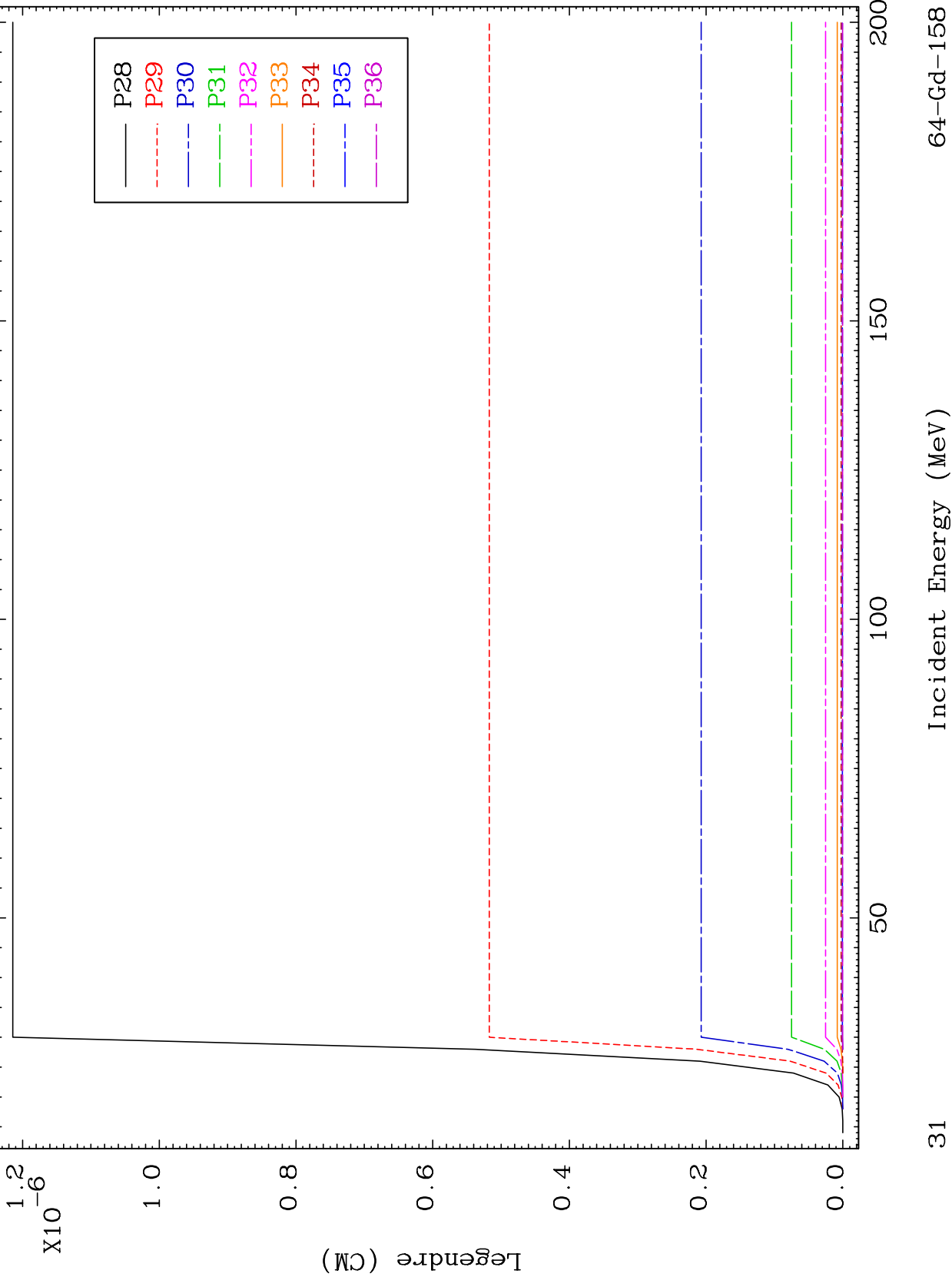
Incident Energy (MeV)

30

MAT 6443

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

64-Gd-158



31

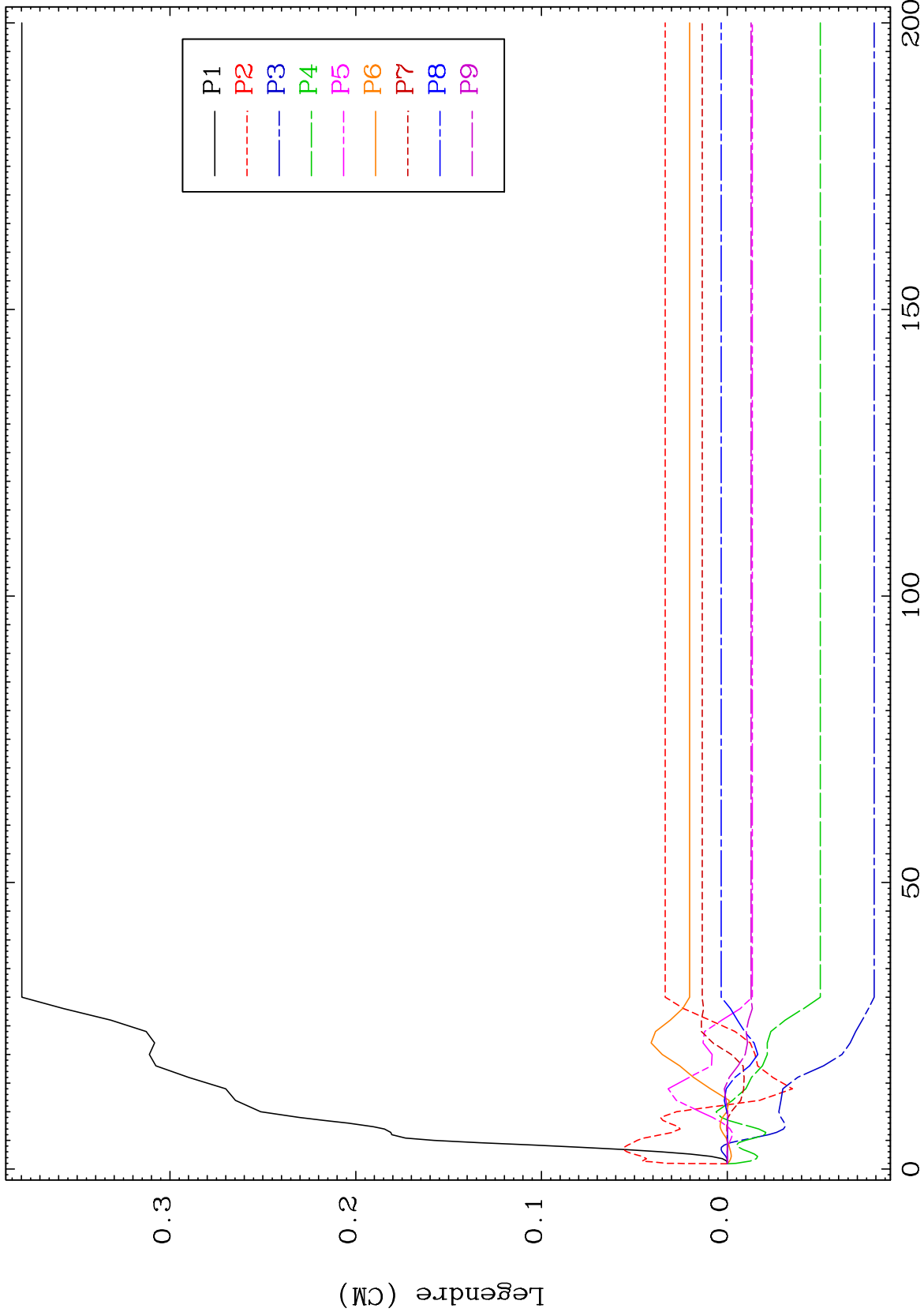
64-Gd-158



MAT 6443

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

64-Gd-158



32

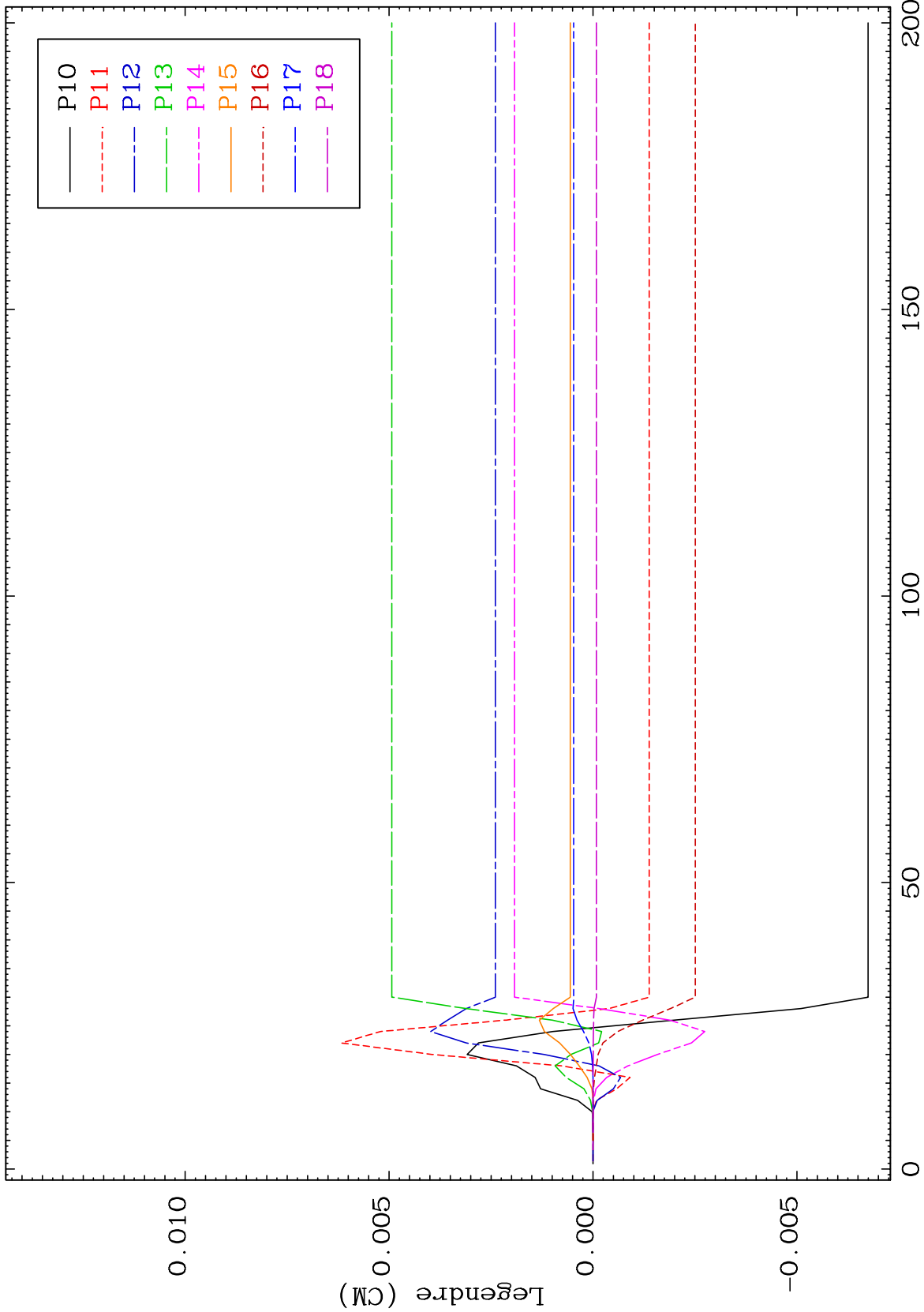
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

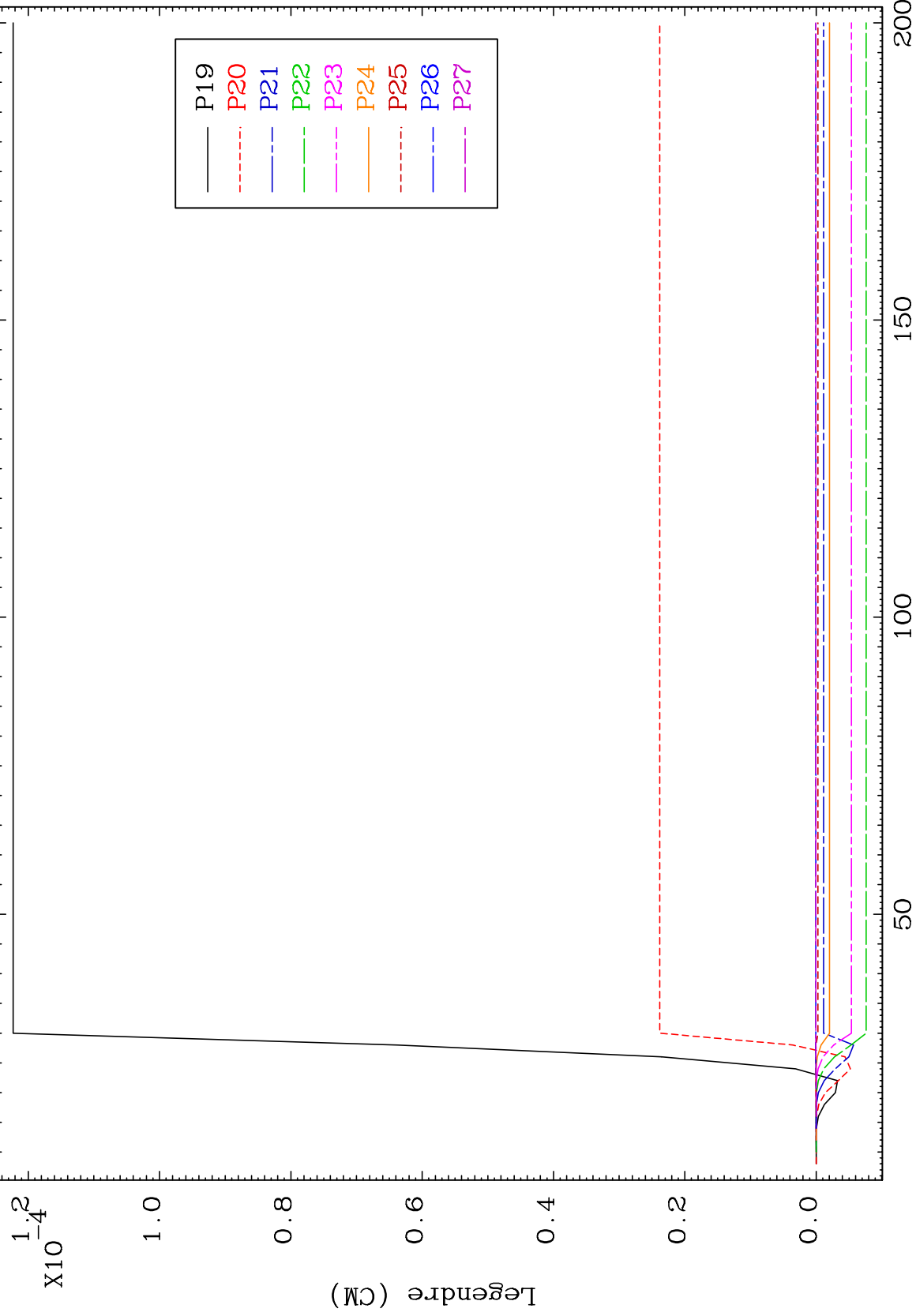
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MAT 6443

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

64-Gd-158



34

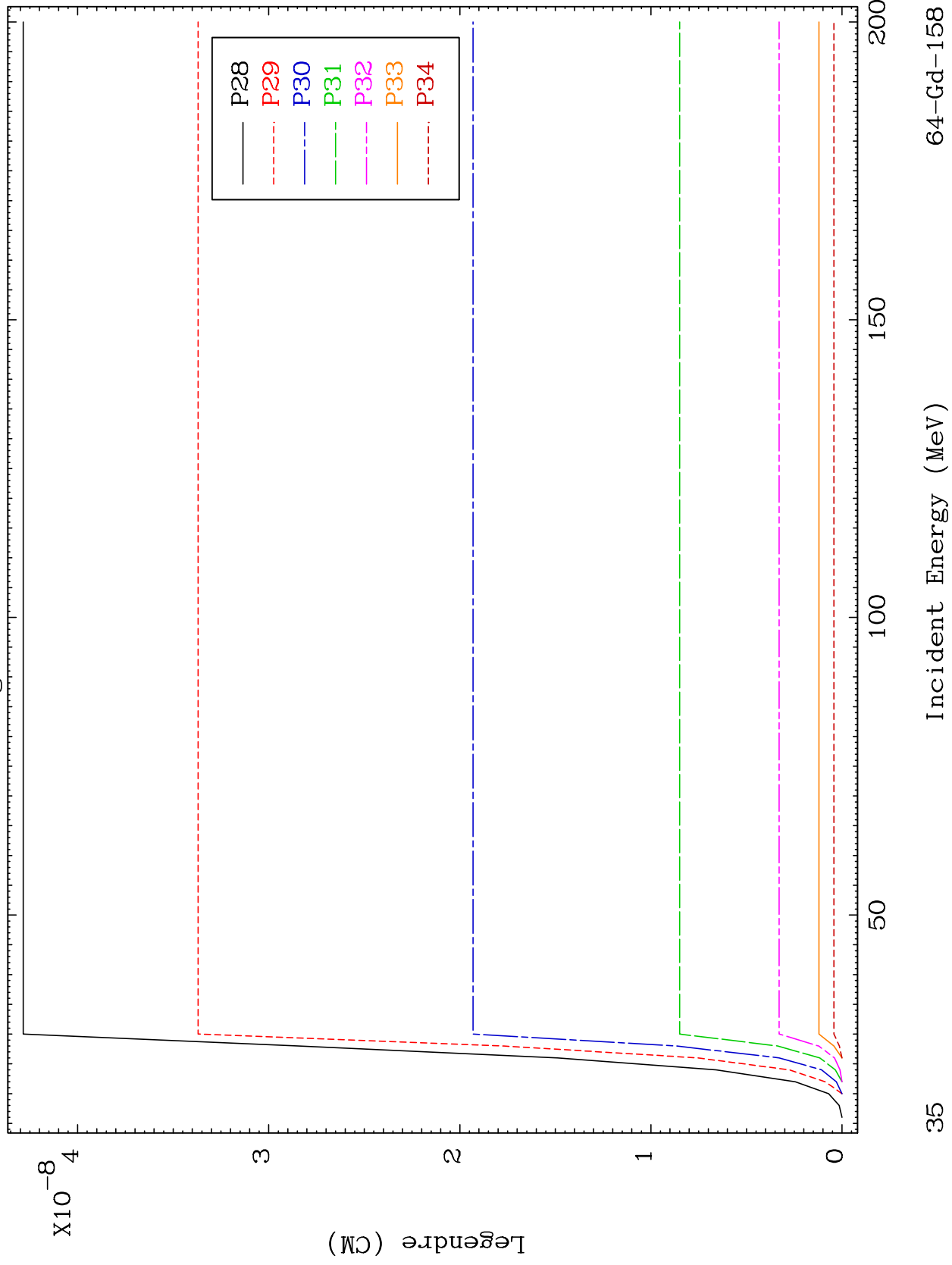
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



35

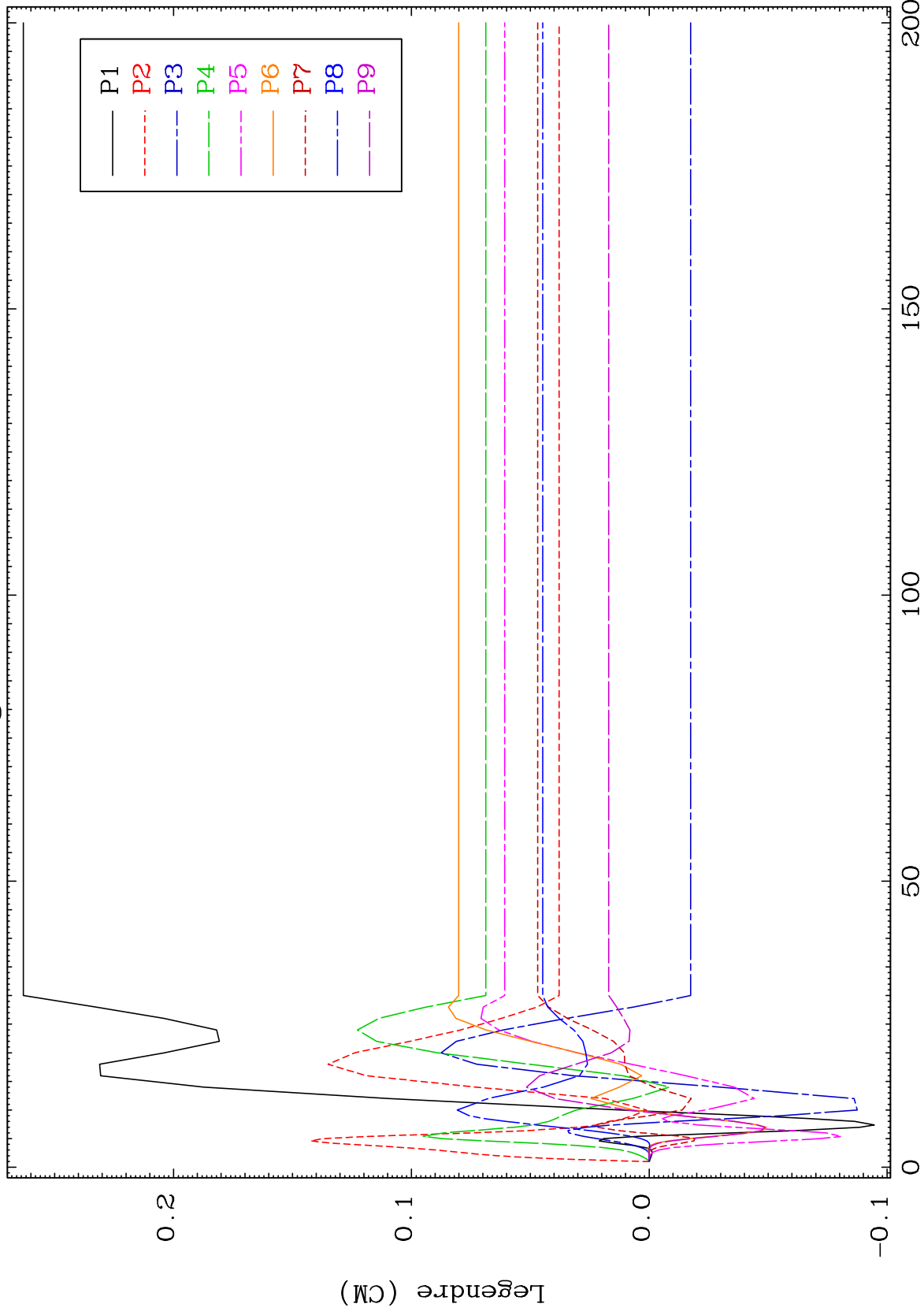
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



36

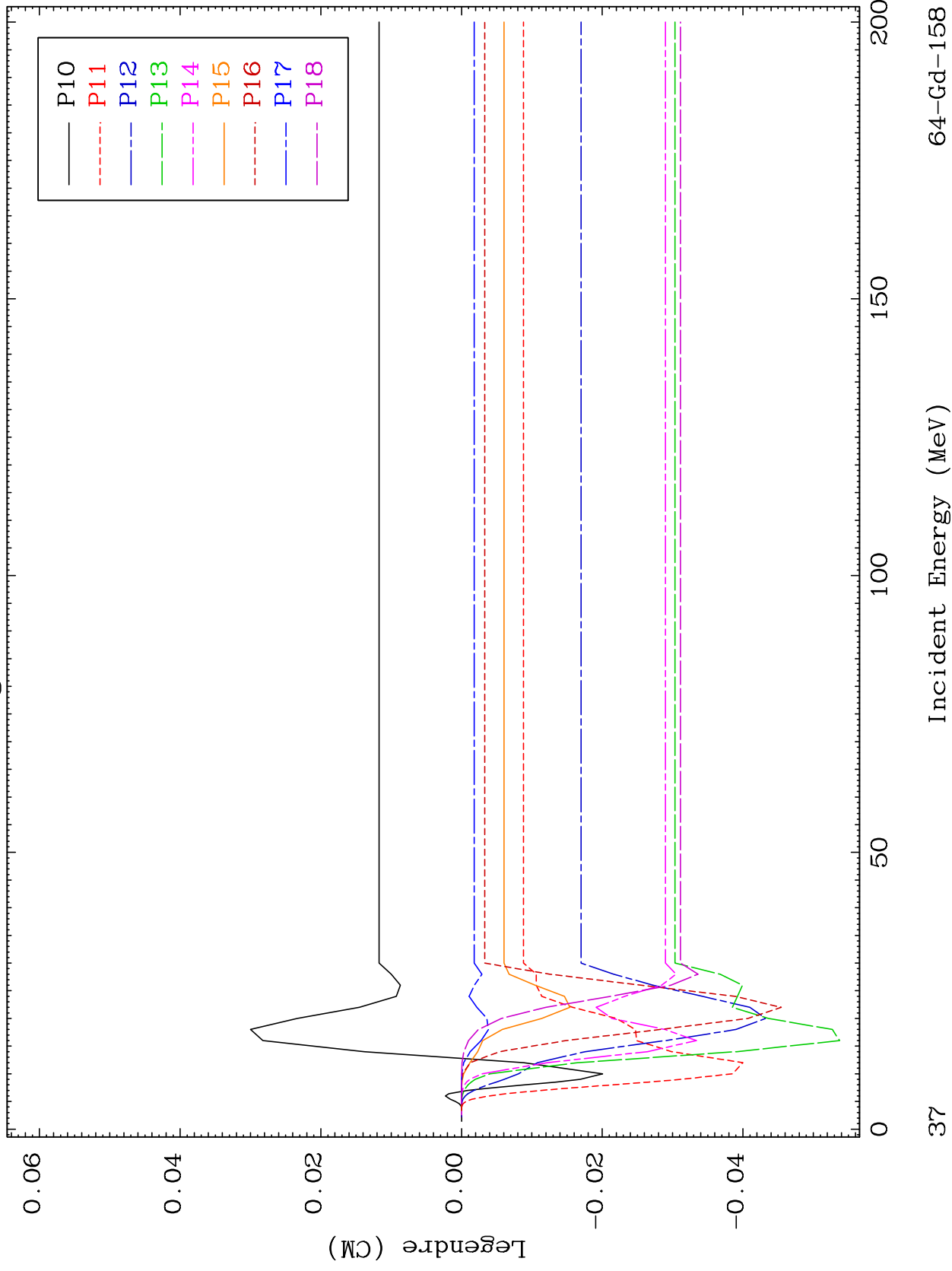
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



64-Gd-158

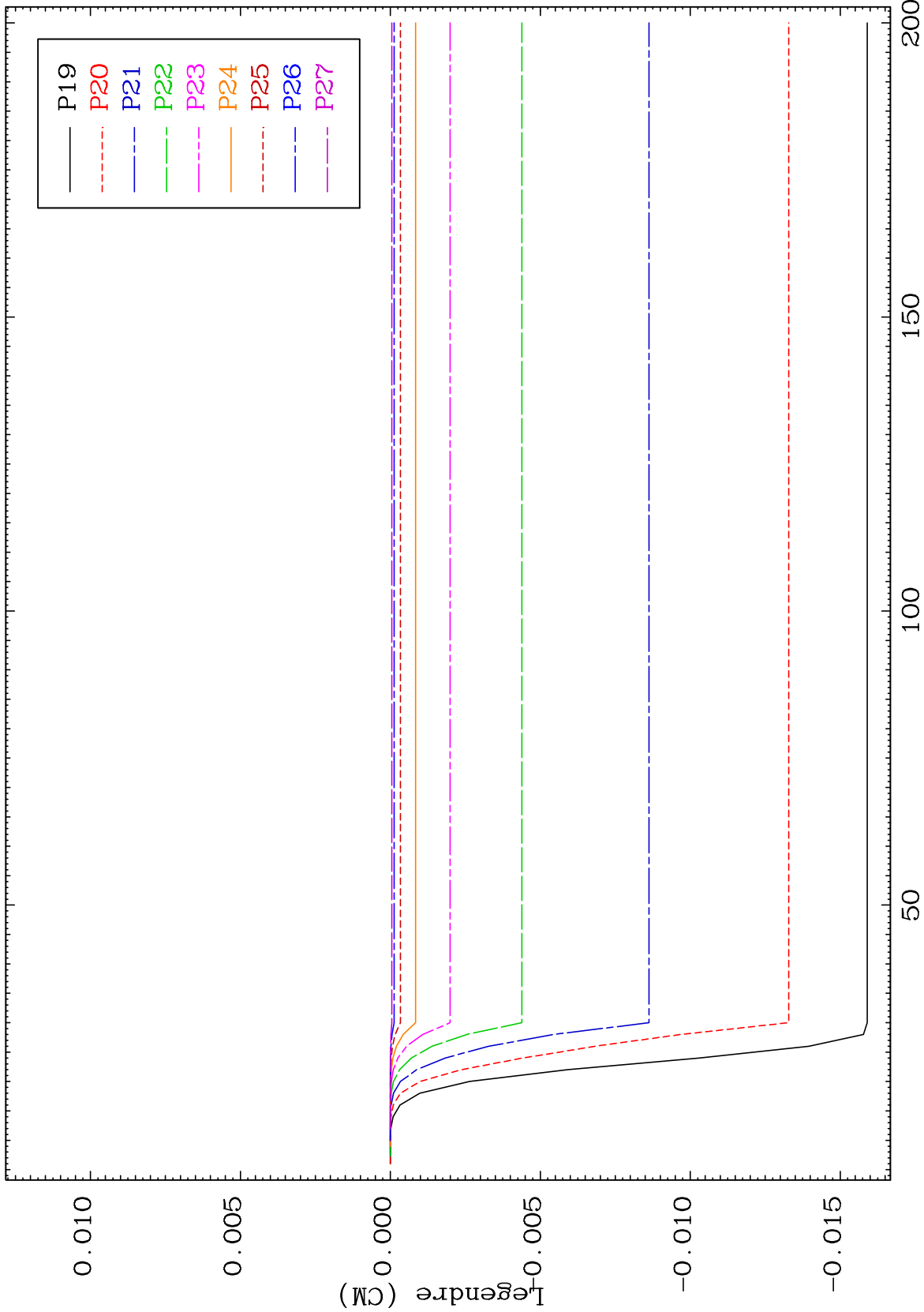
Incident Energy (MeV)

37

MAT 6443

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

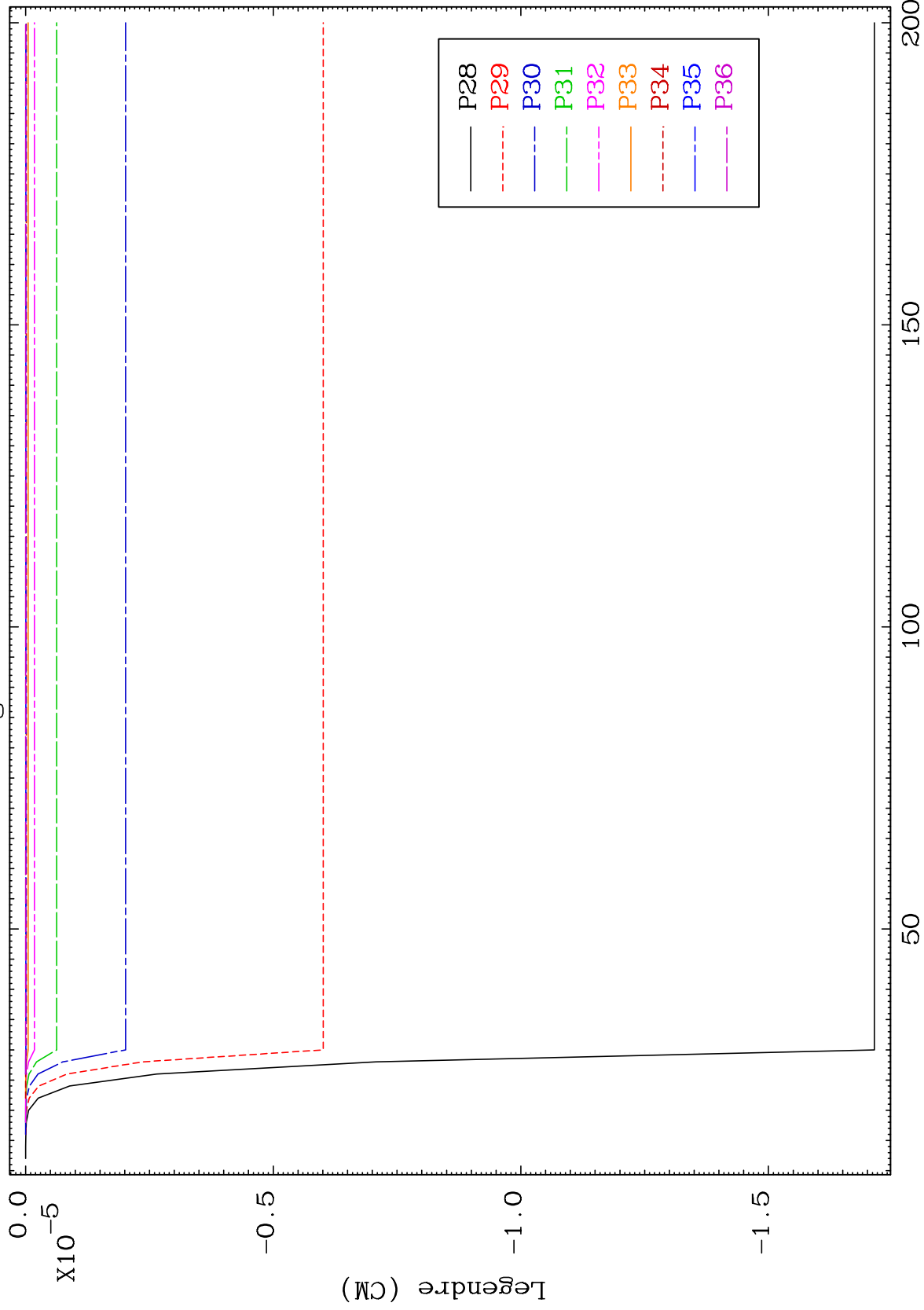
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MAT 6443

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

64-Gd-158



39

Incident Energy (MeV)

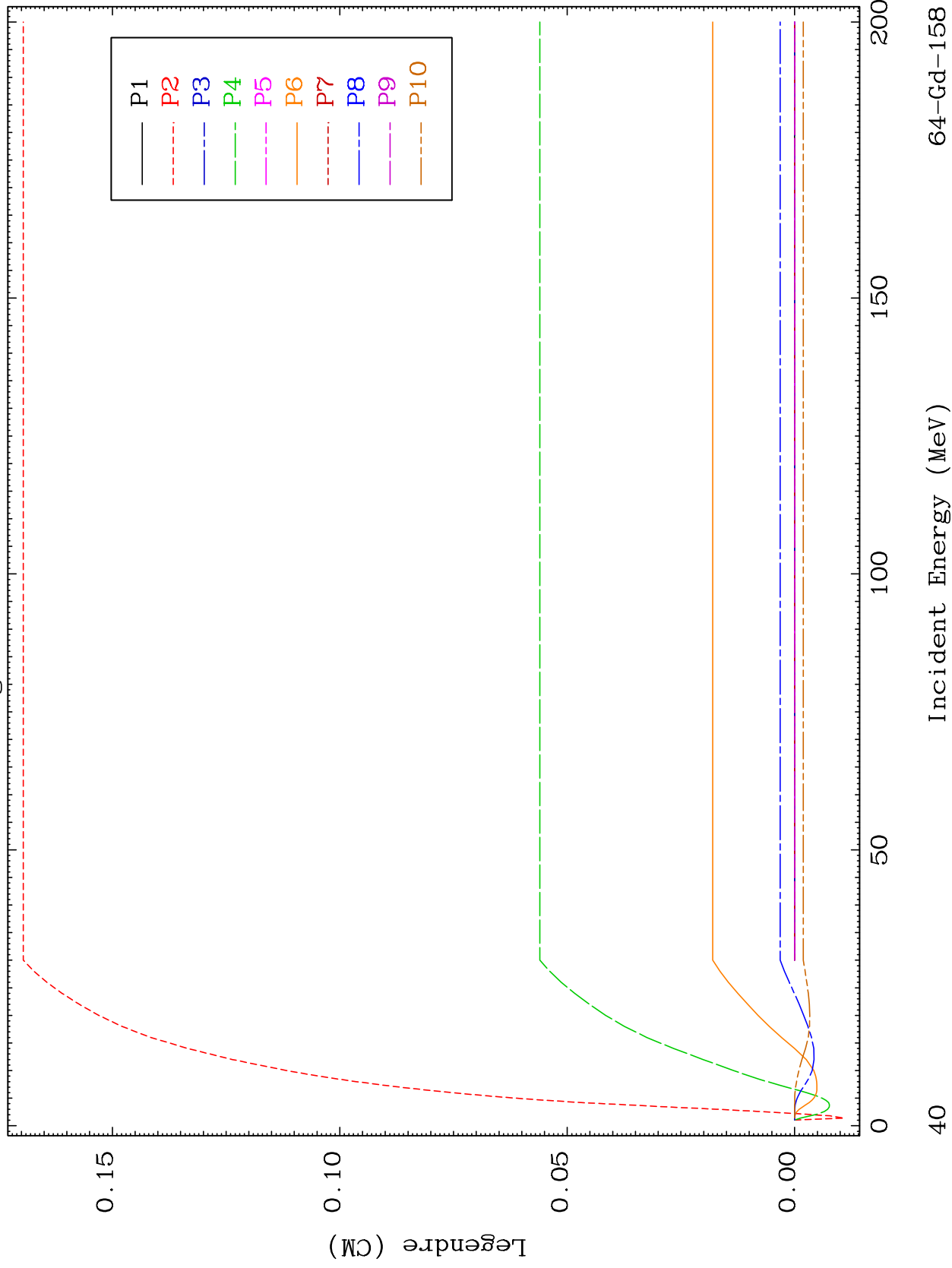
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MAT 6443

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

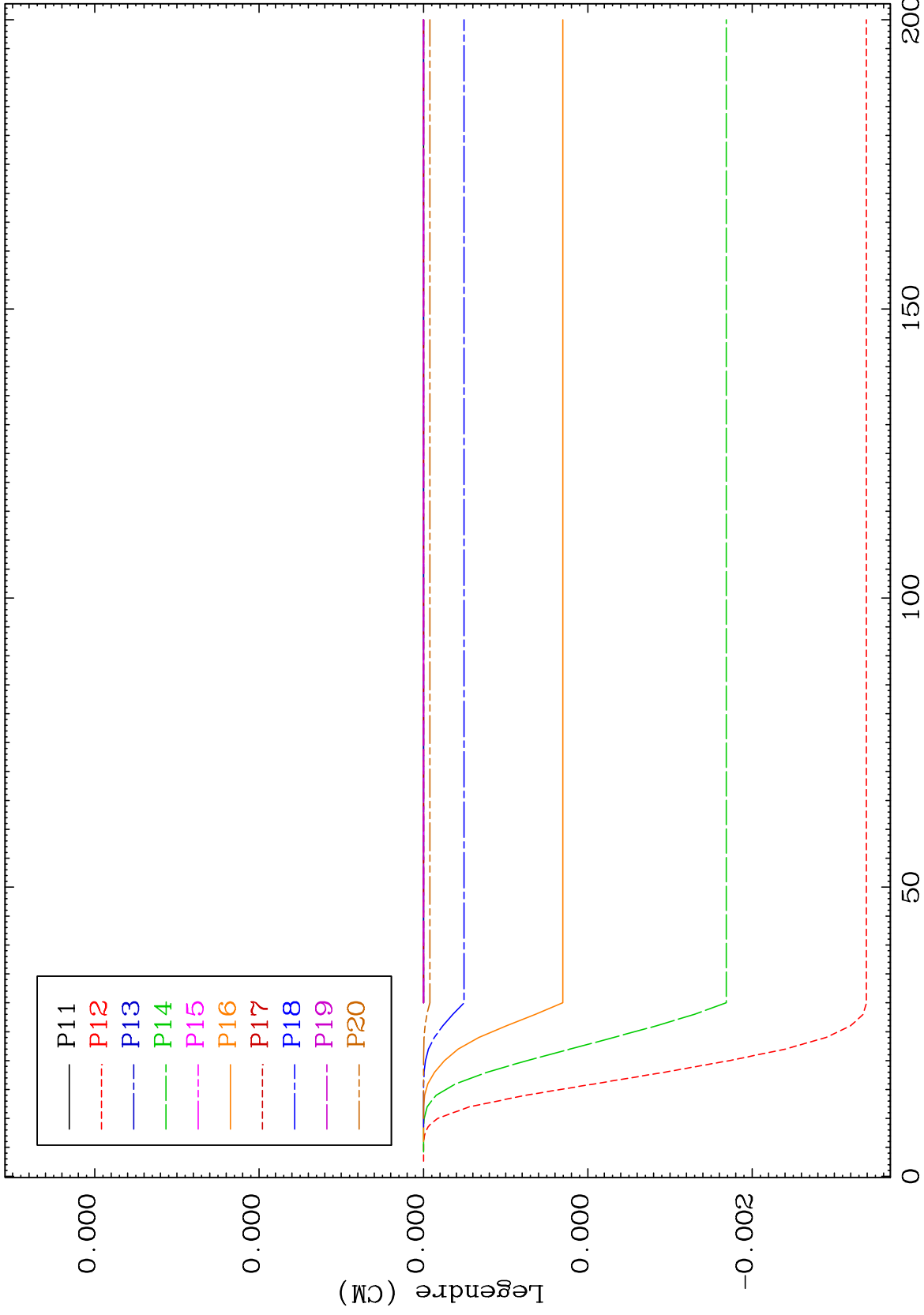
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MAT 6443

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

64-Gd-158



41

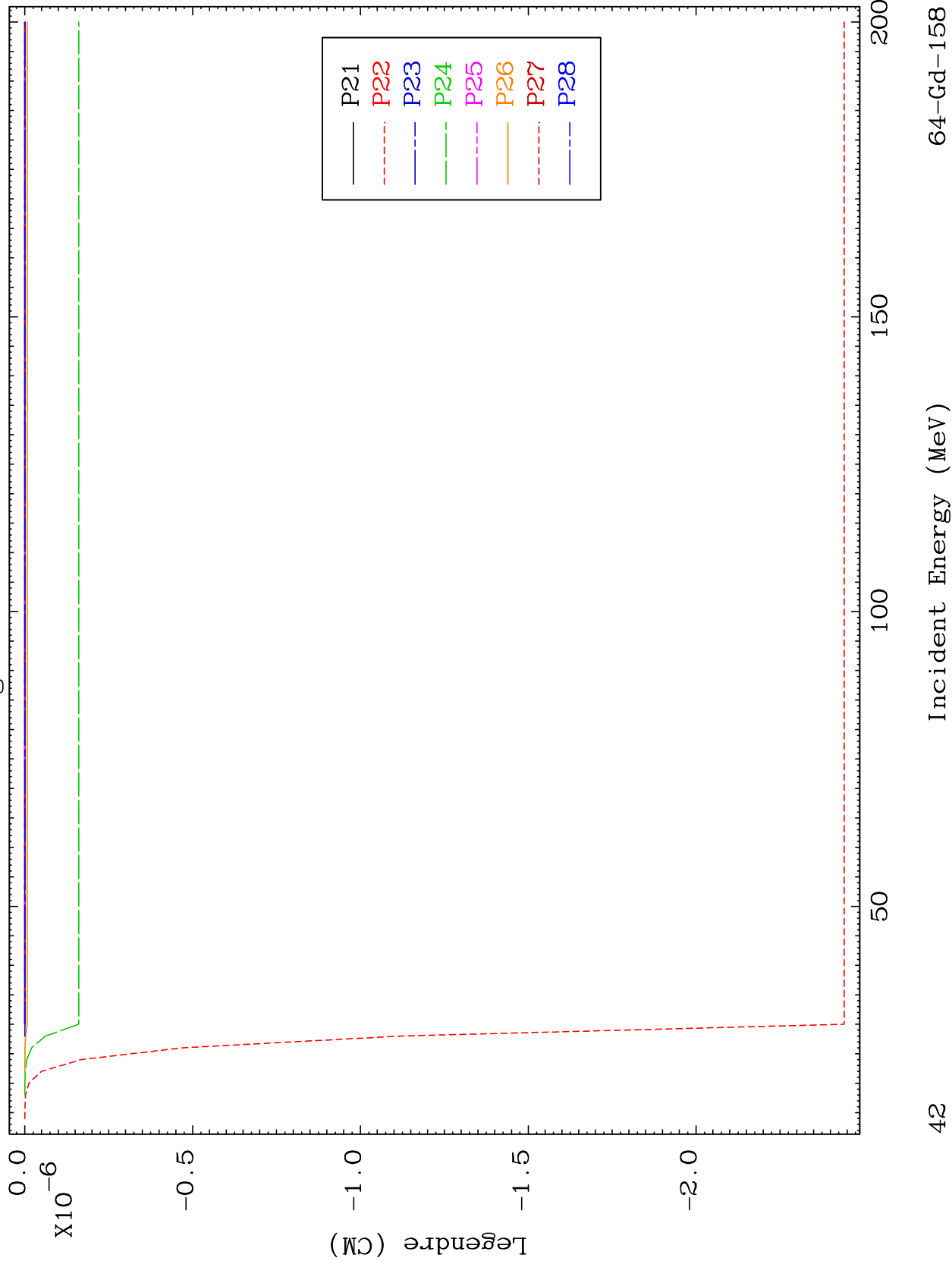
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



42

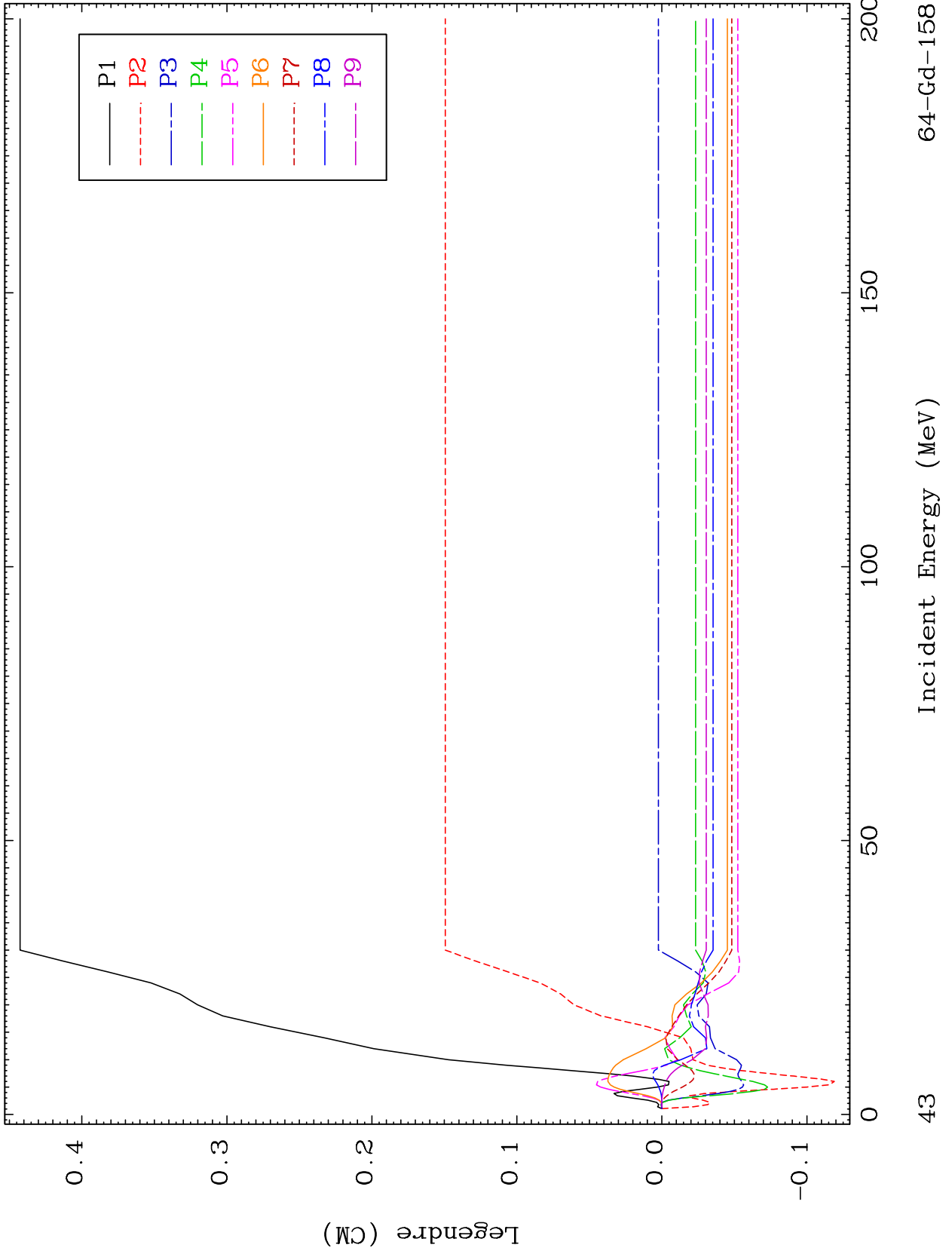
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



64-Gd-158

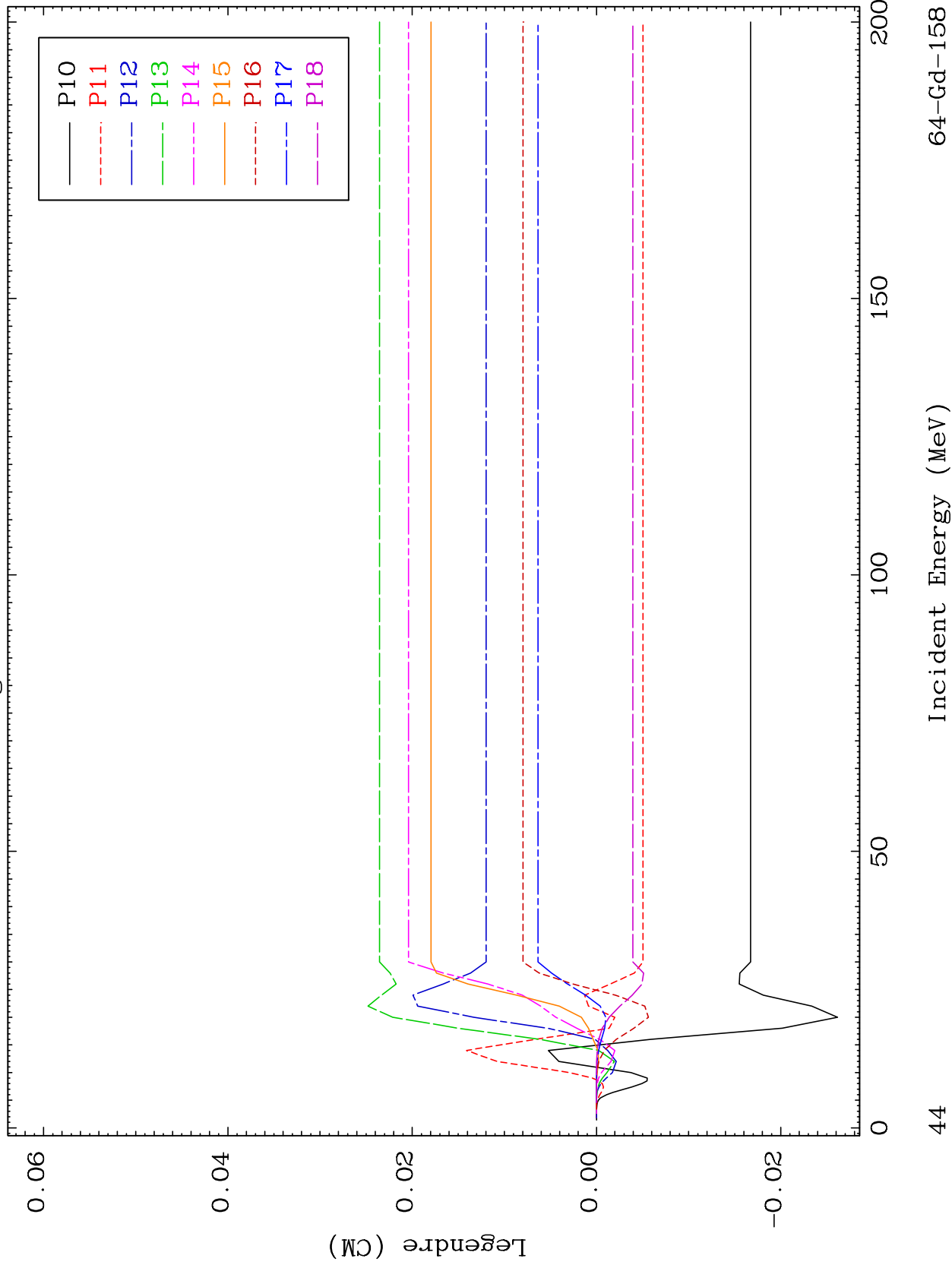
Incident Energy (MeV)

43

MAT 6443

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

64-Gd-158



44

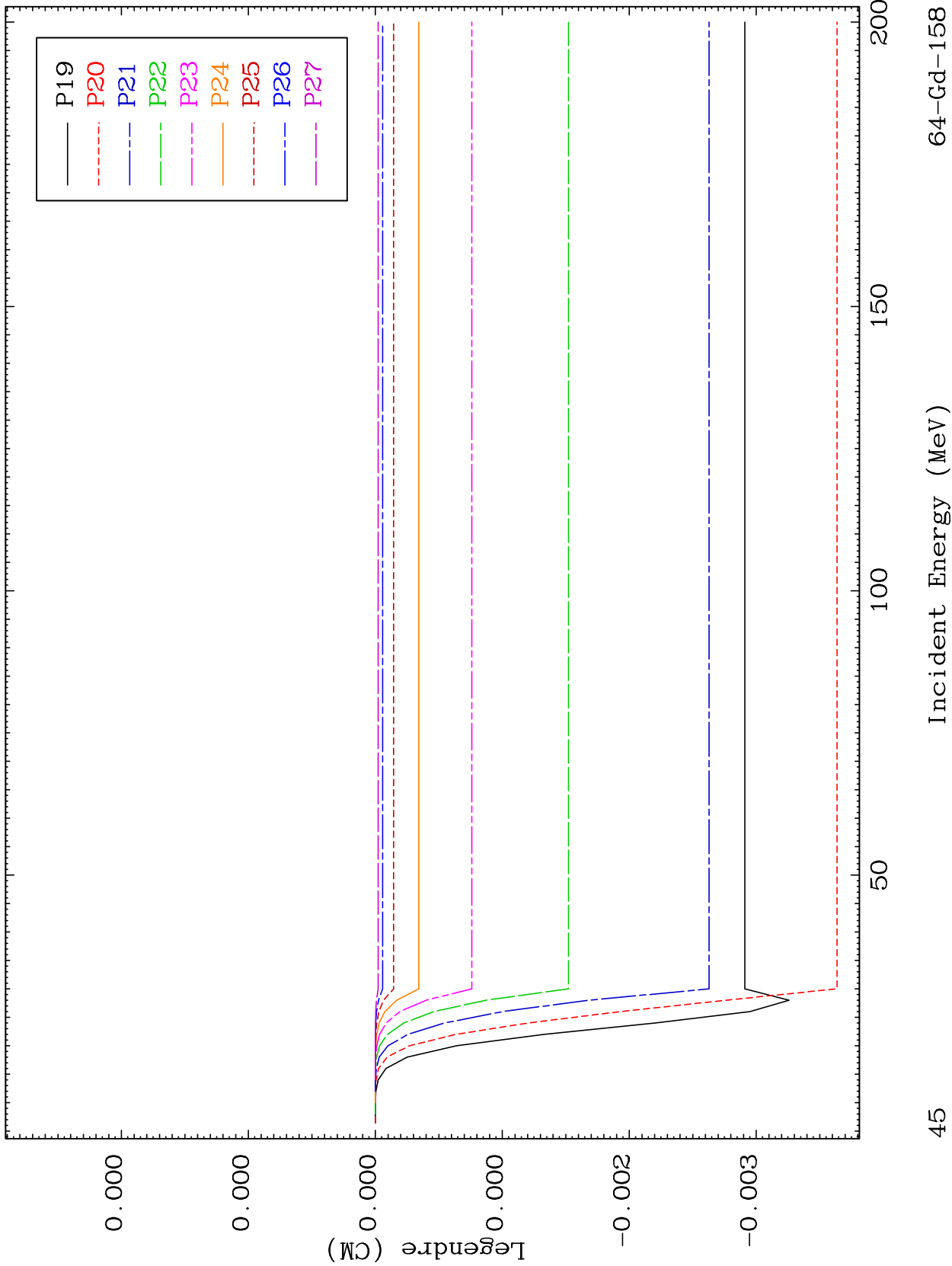
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



45

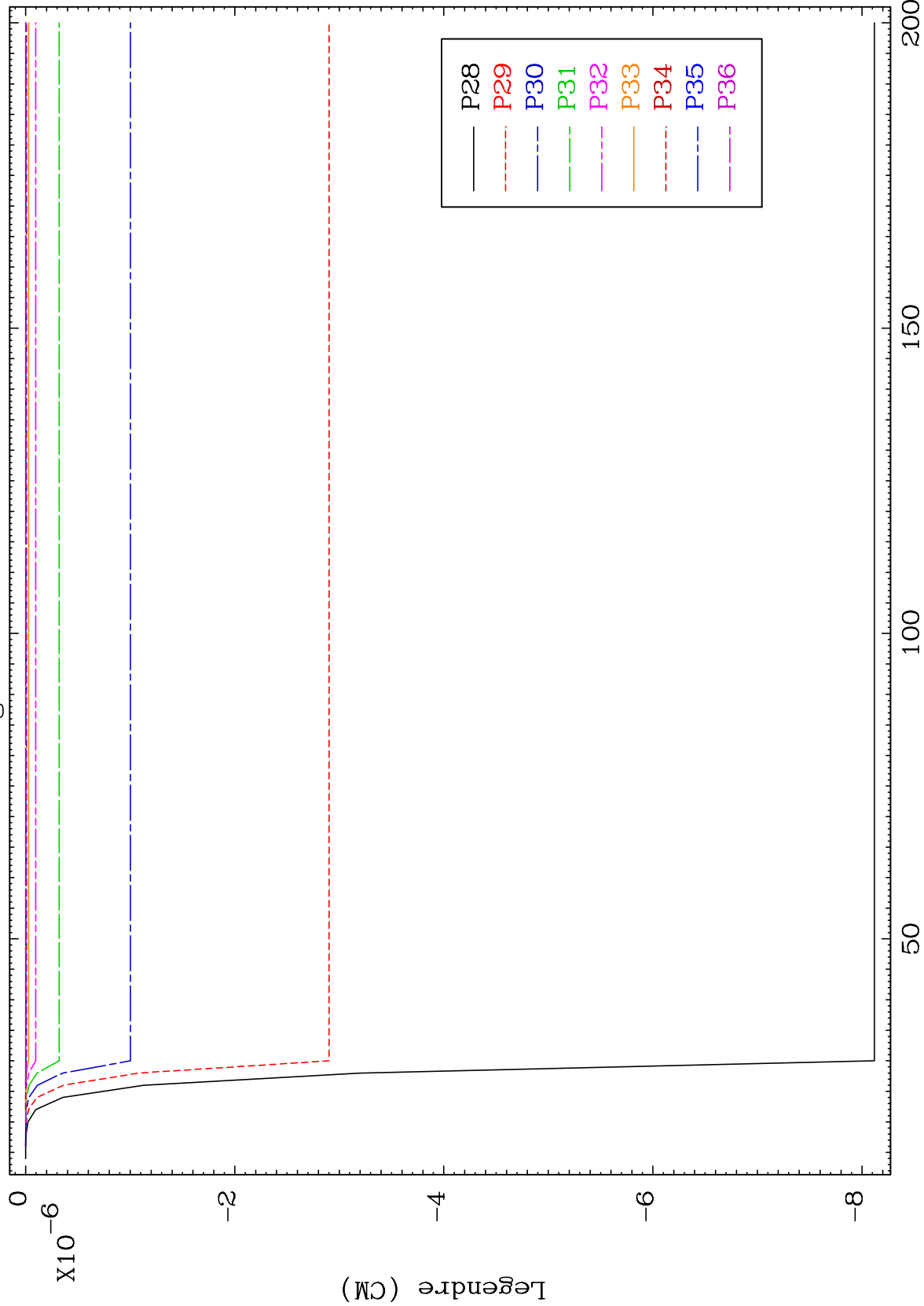
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



46

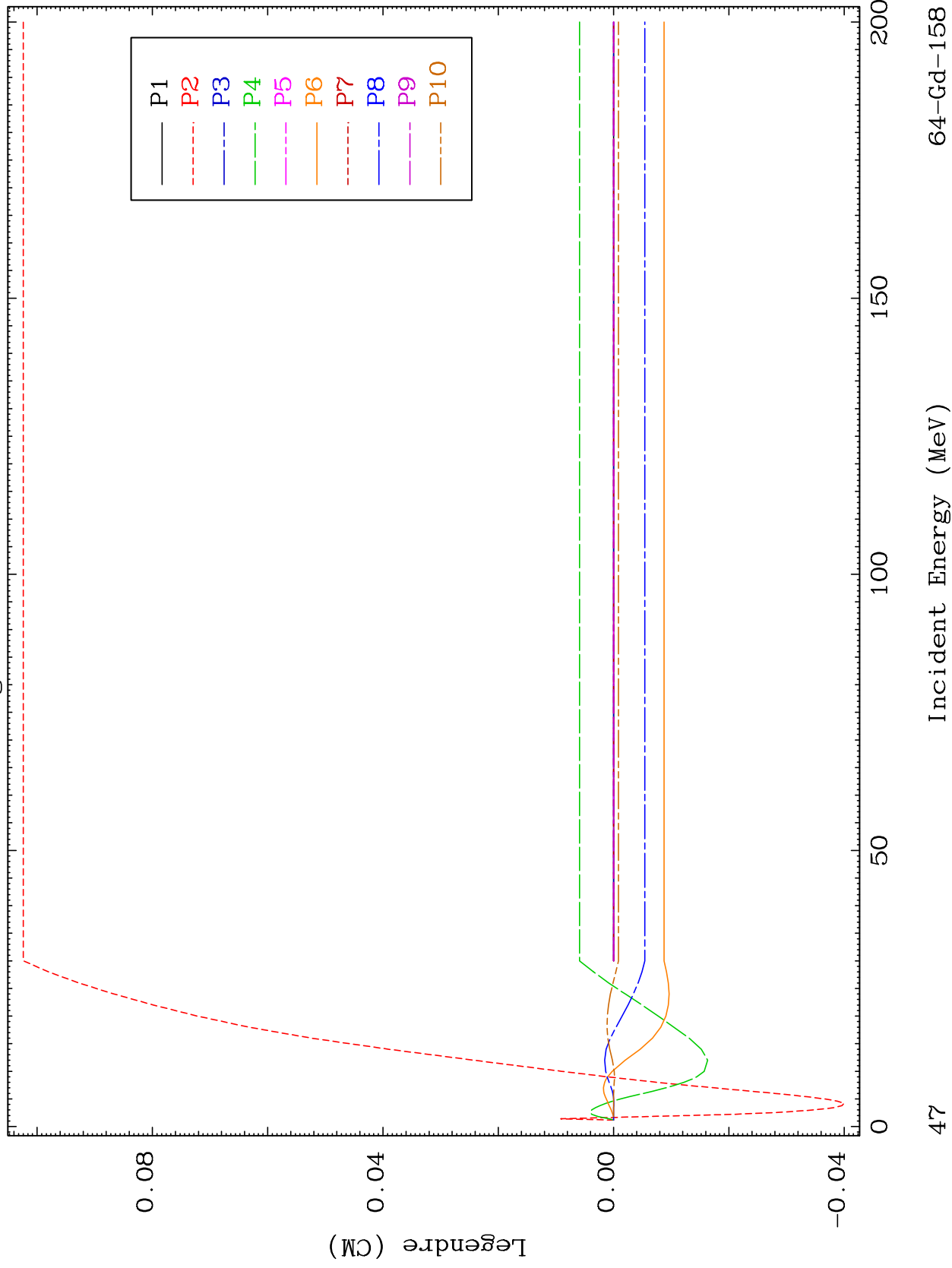
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158

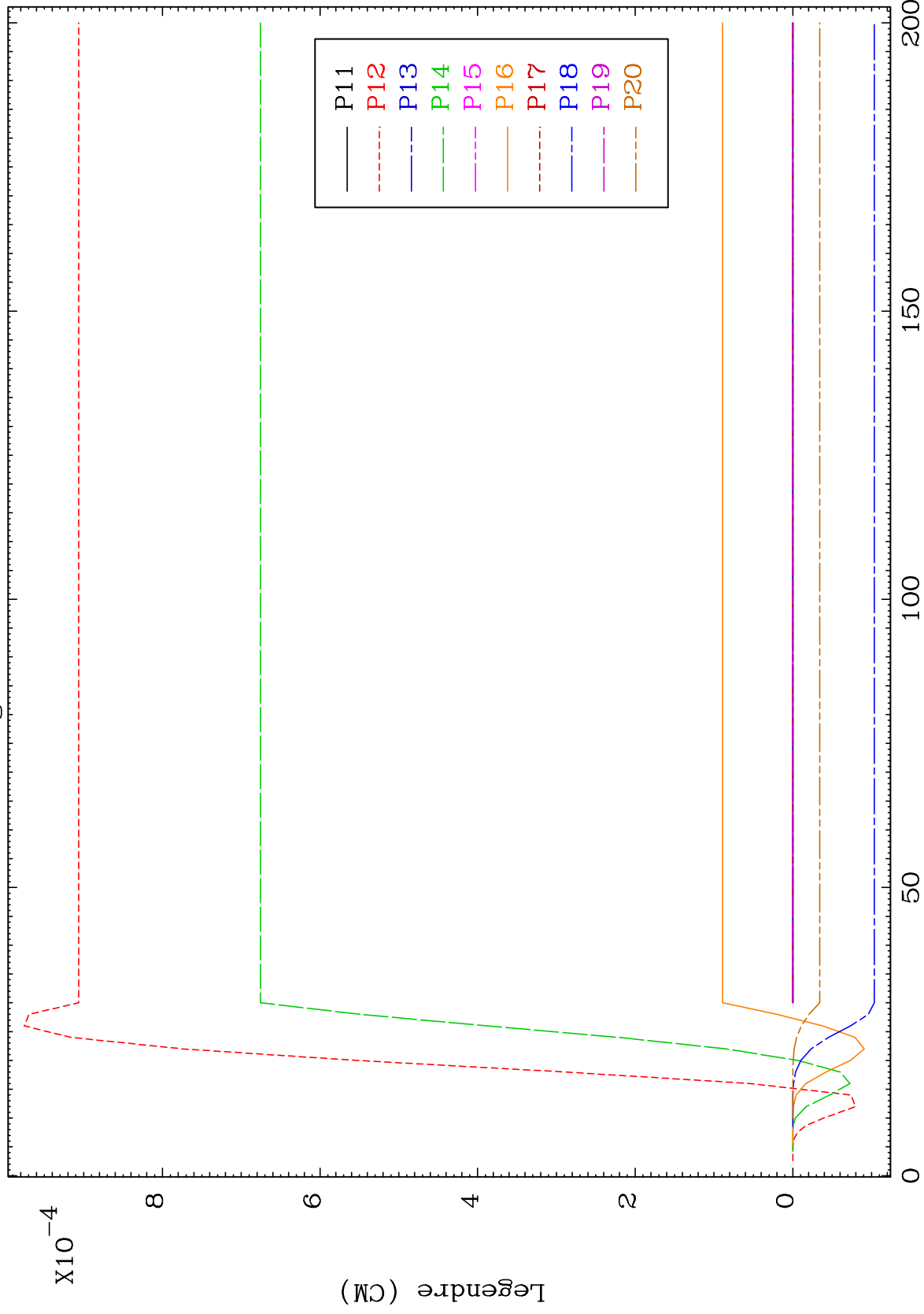




MAT 6443

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

64-Gd-158



48

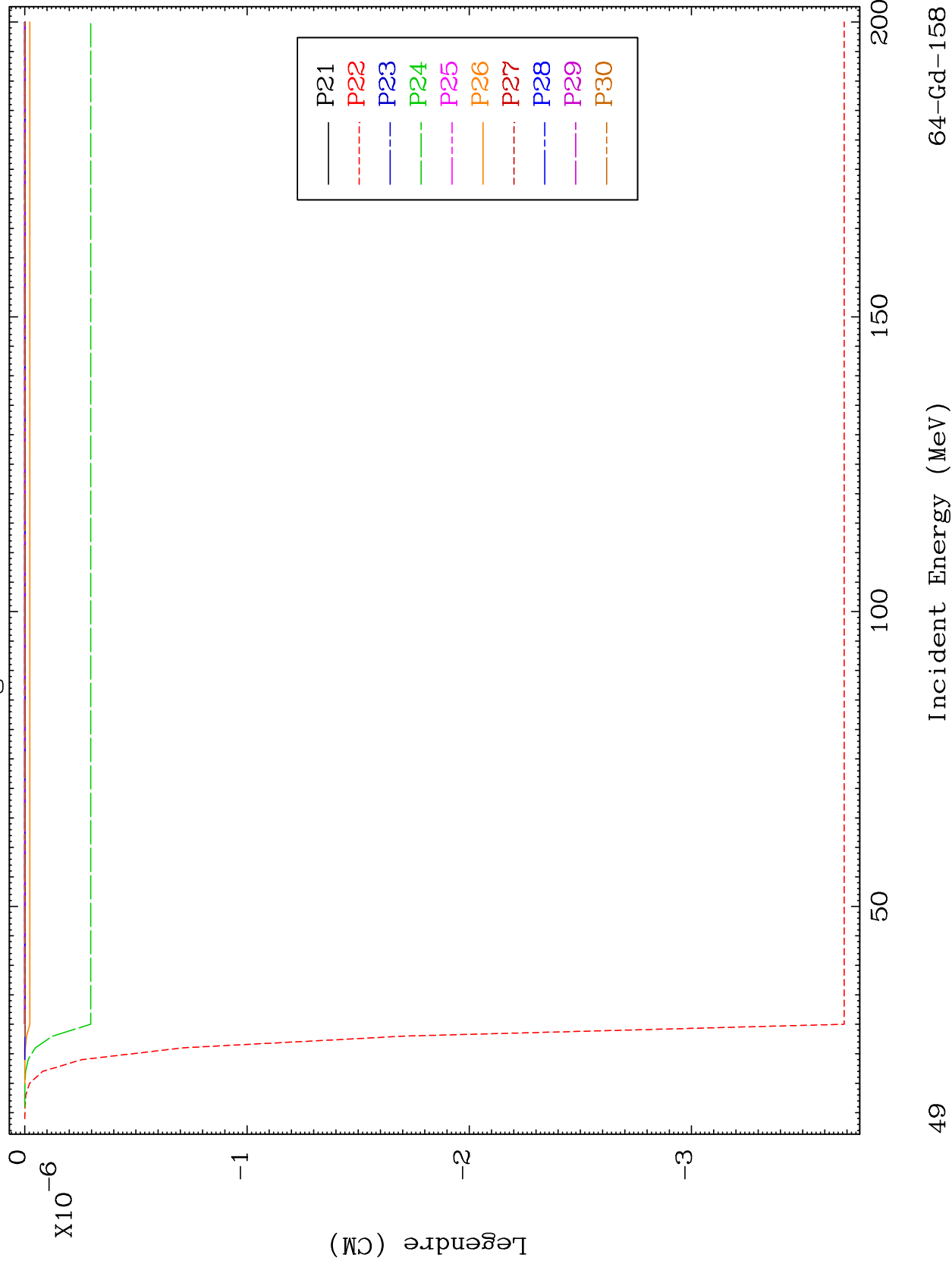
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



49

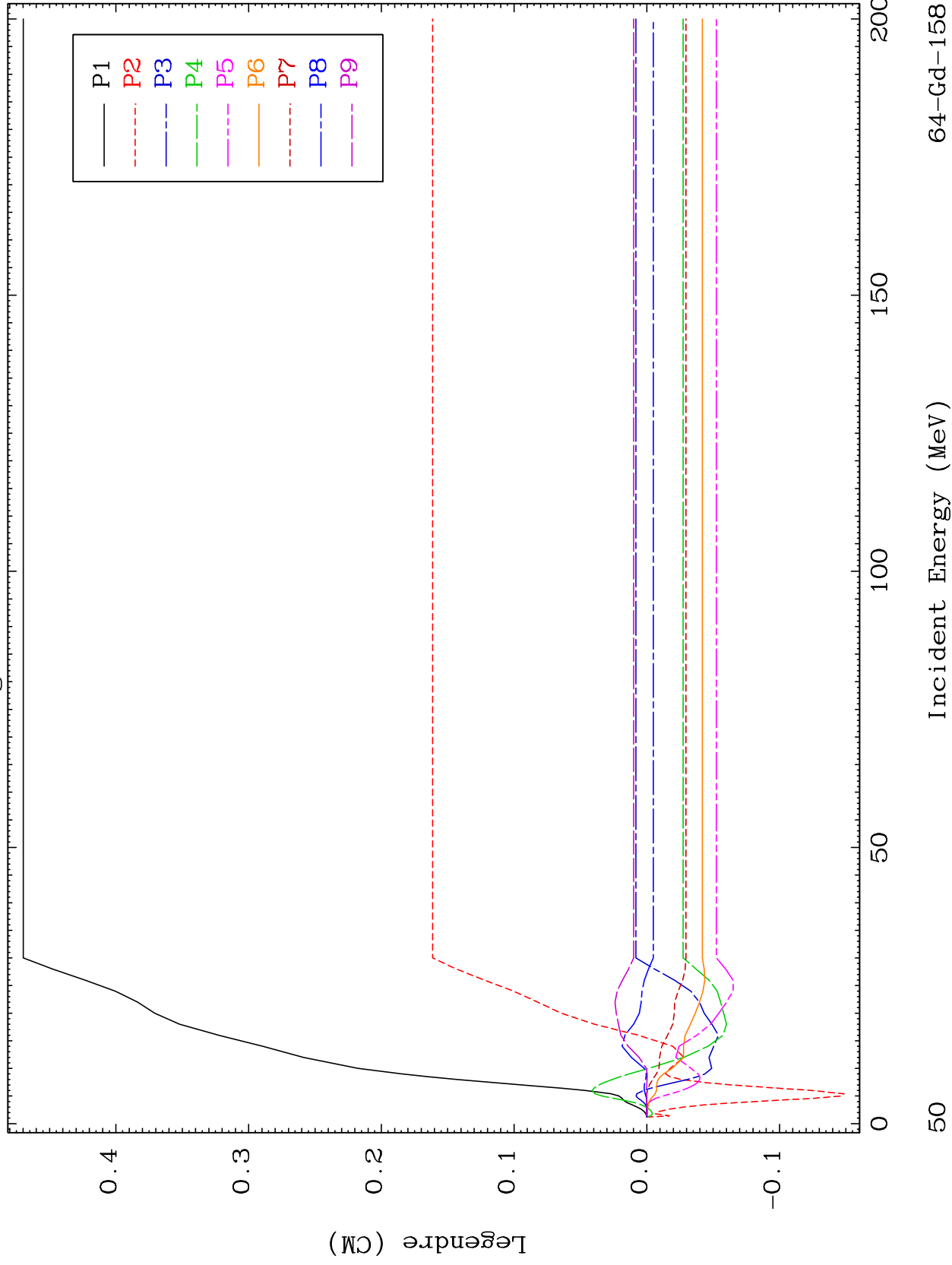
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



64-Gd-158

Incident Energy (MeV)

0

50

100

150

200

Legendre (CM)

0.4

0.3

0.2

0.1

0.0

-0.1

P1

P2

P3

P4

P5

P6

P7

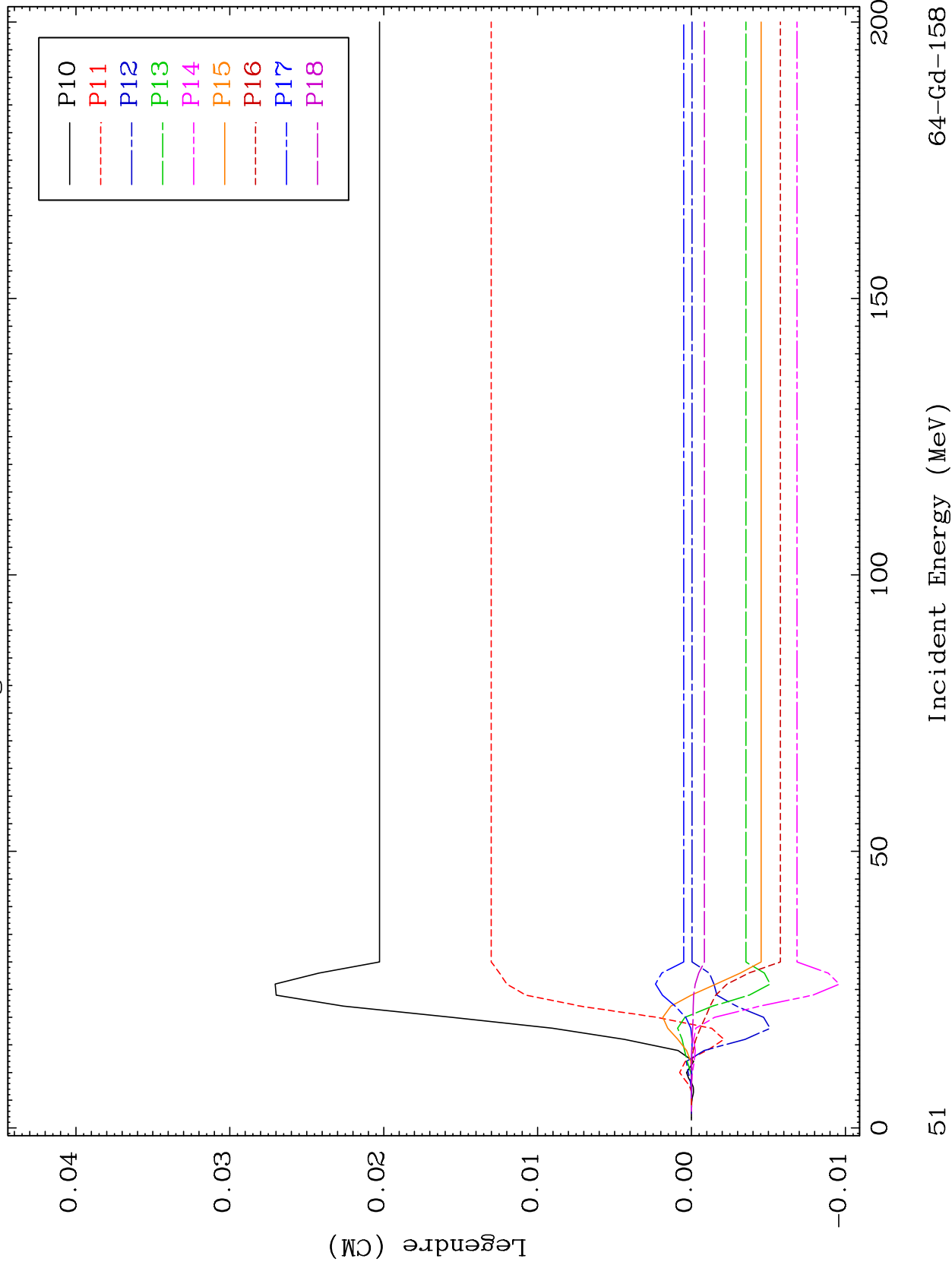
P8

P9

MAT 6443

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

64-Gd-158



64-Gd-158

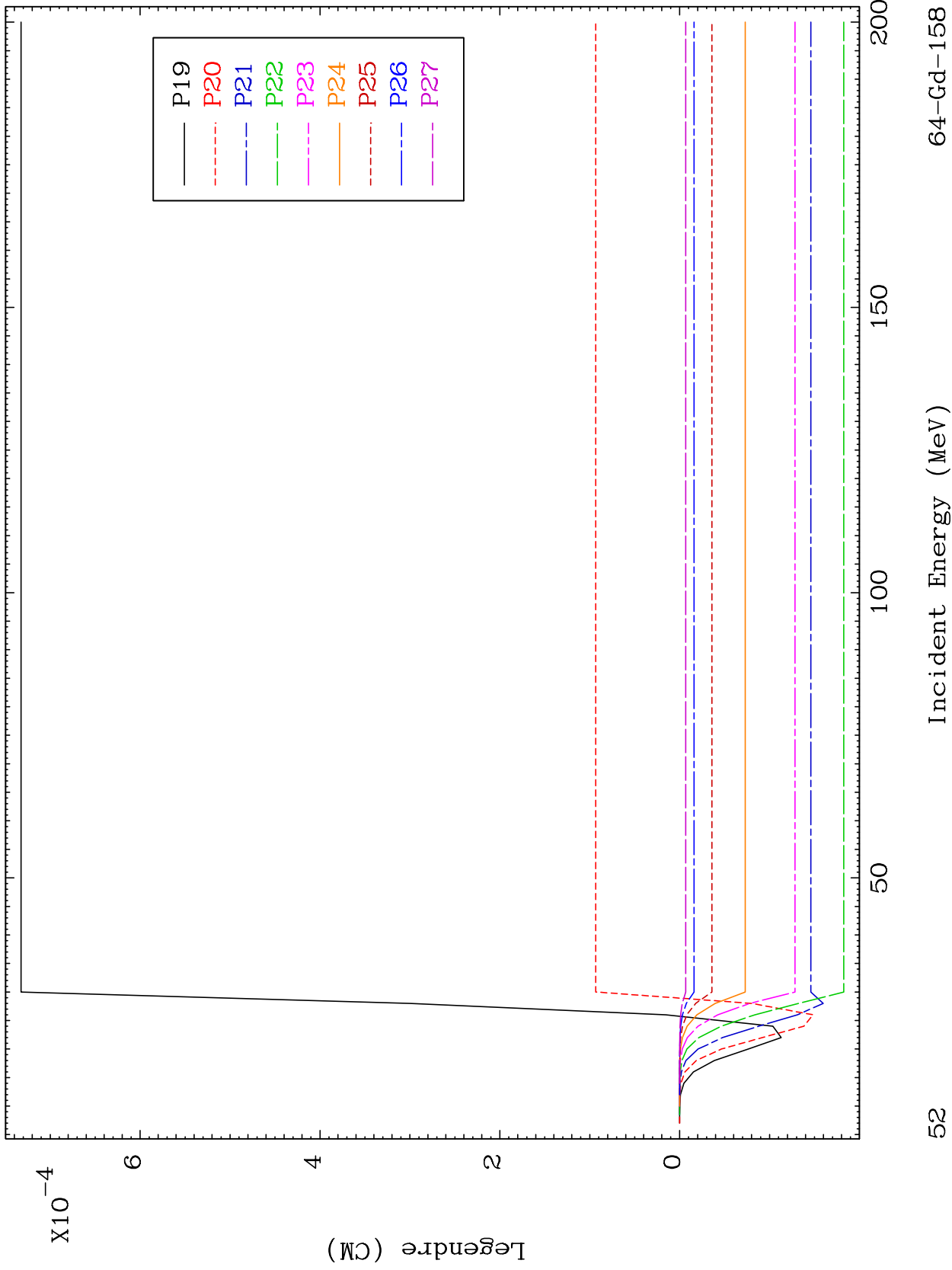
Incident Energy (MeV)

51

MAT 6443

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

64-Gd-158



52

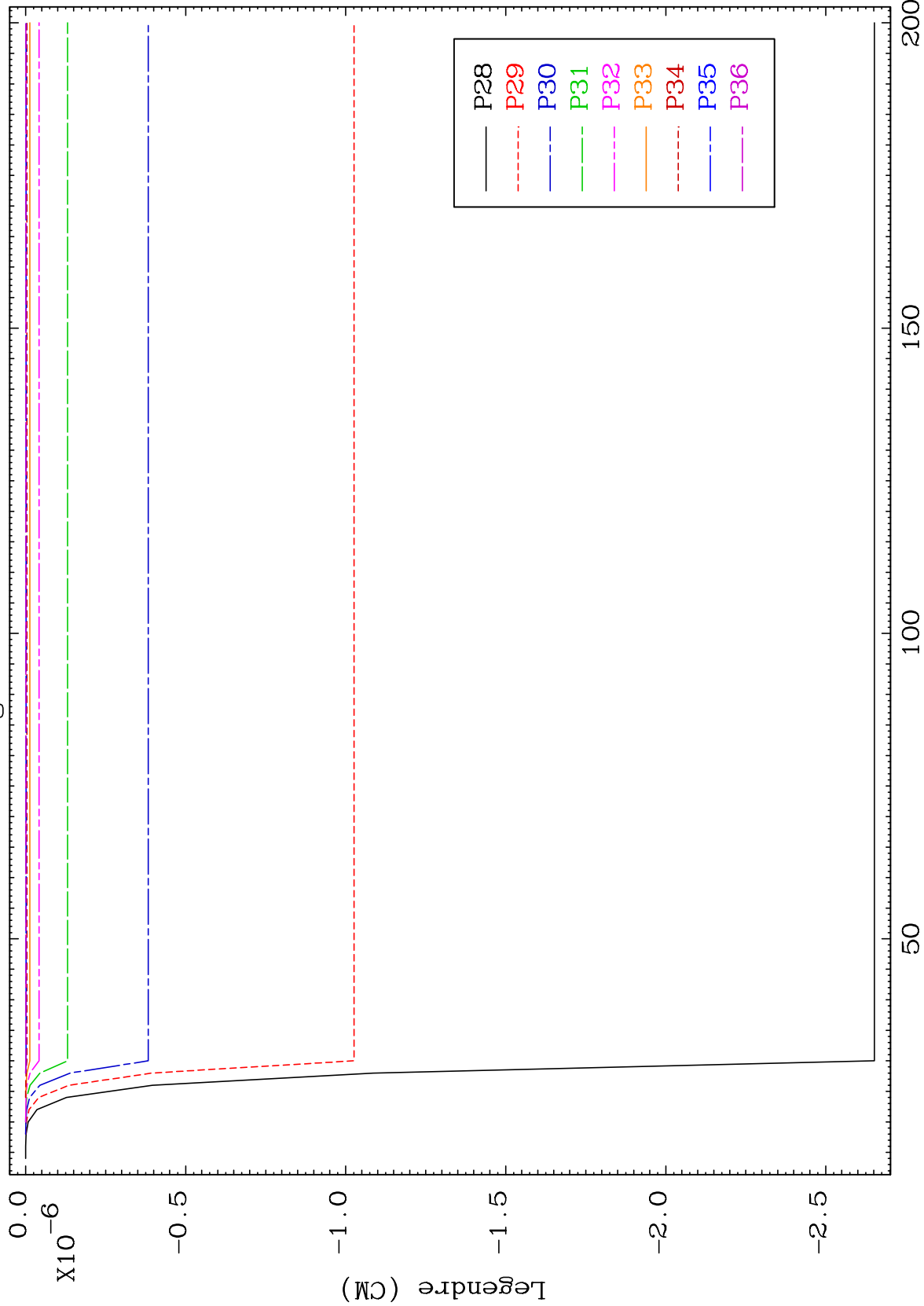
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

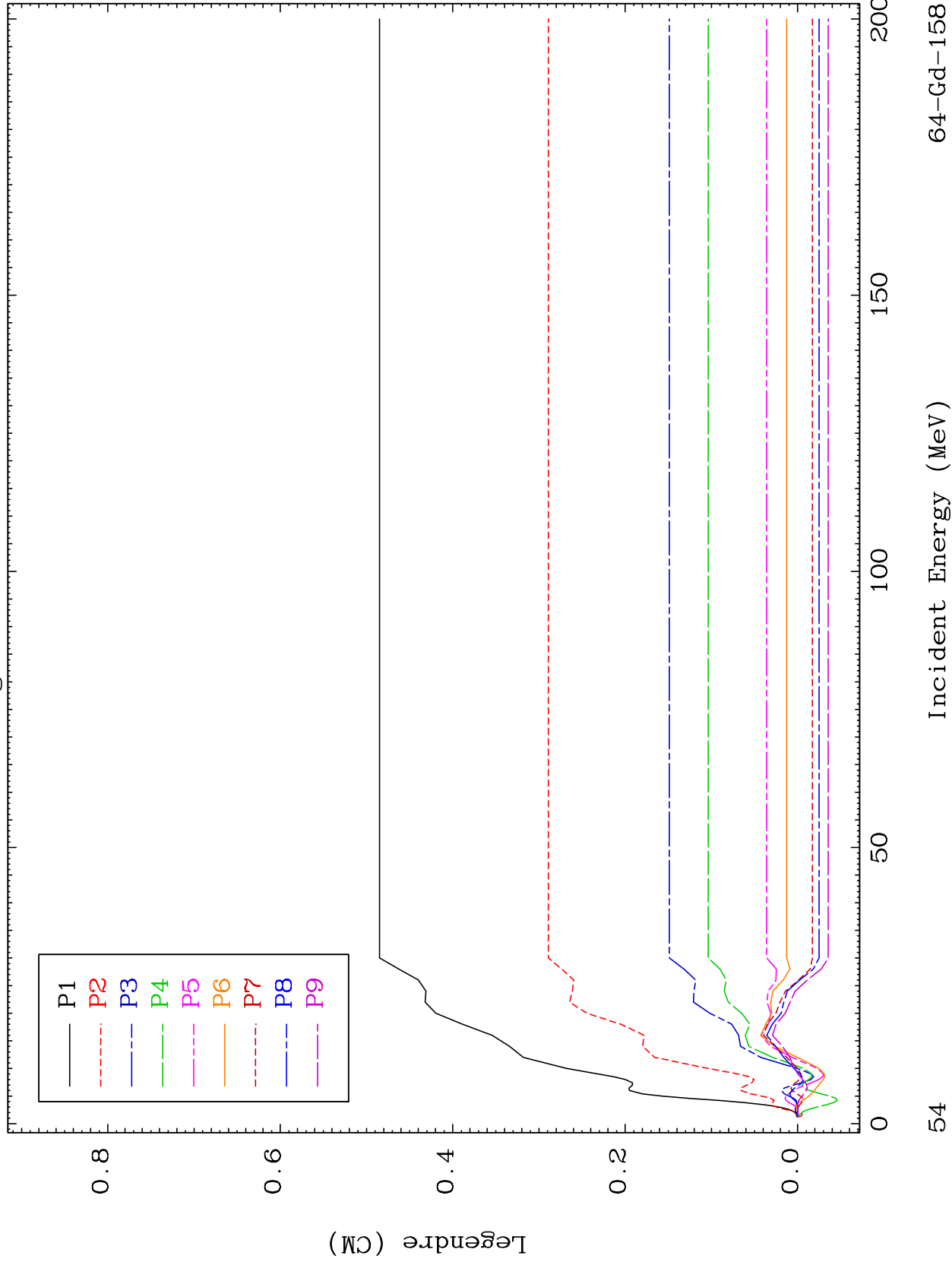
64-Gd-158



MAT 6443

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

64-Gd-158

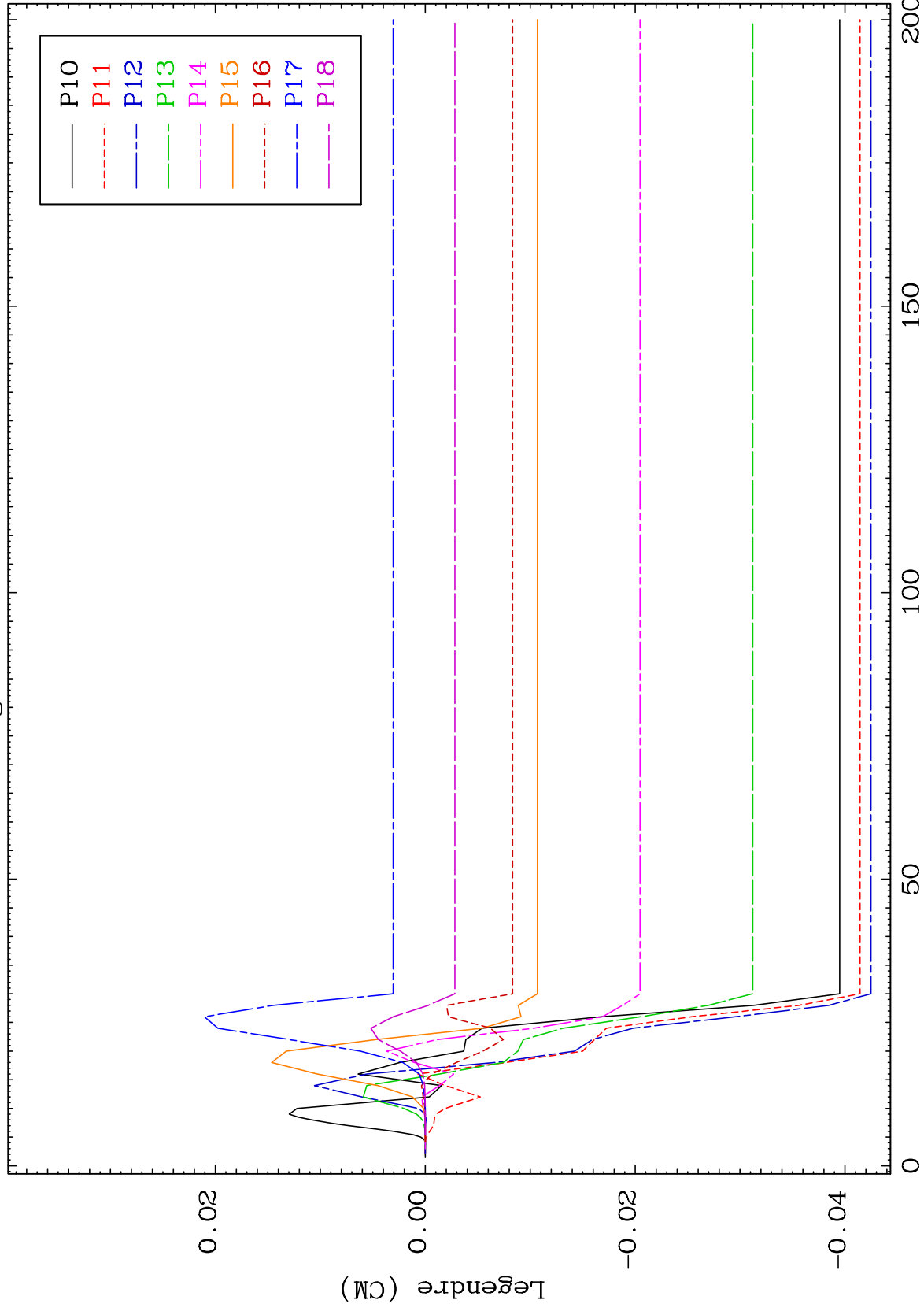


54

MAT 6443

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

64-Gd-158



64-Gd-158

Incident Energy (MeV)

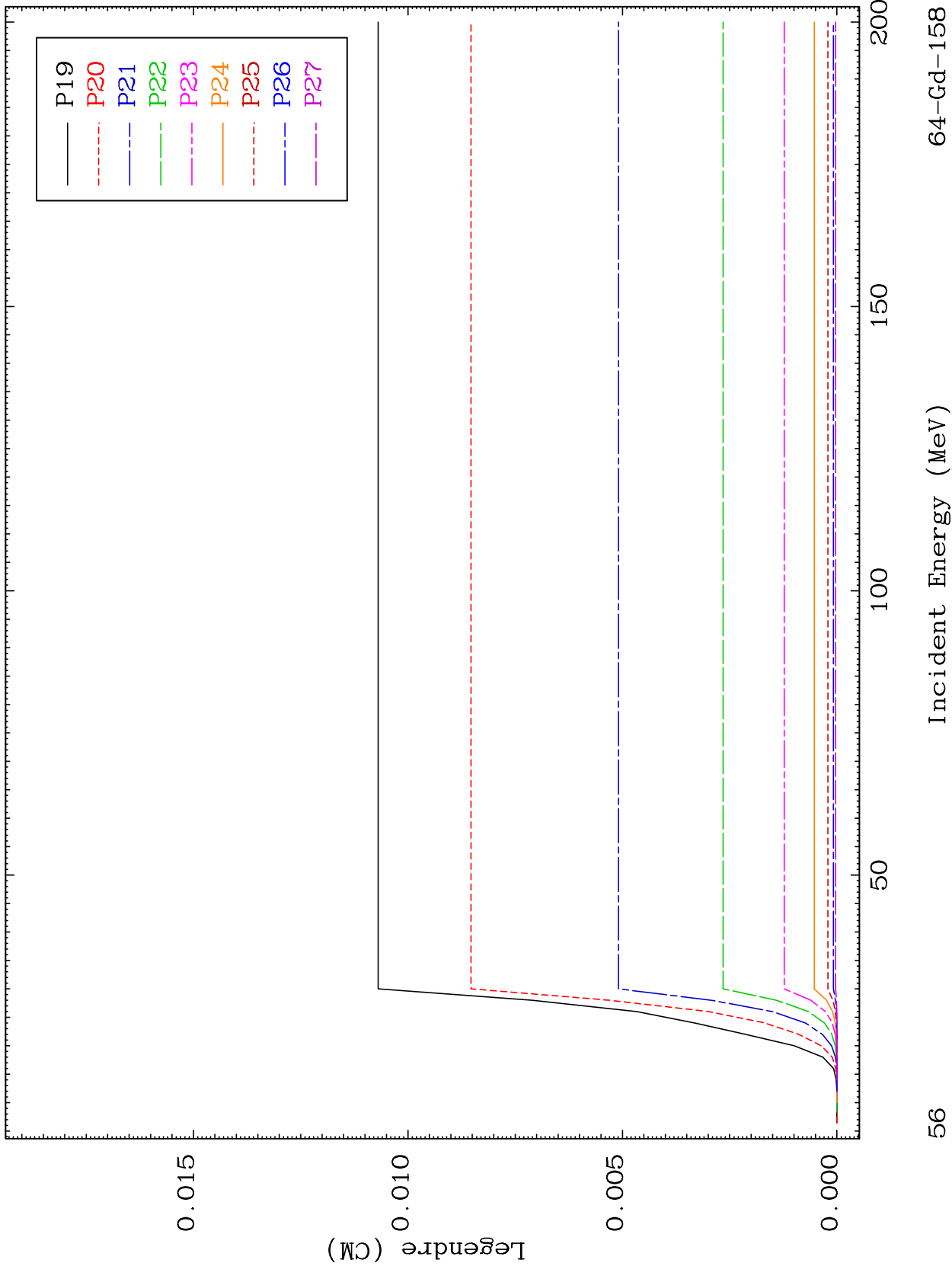
55



MAT 6443

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

64-Gd-158



56

Incident Energy (MeV)

64-Gd-158

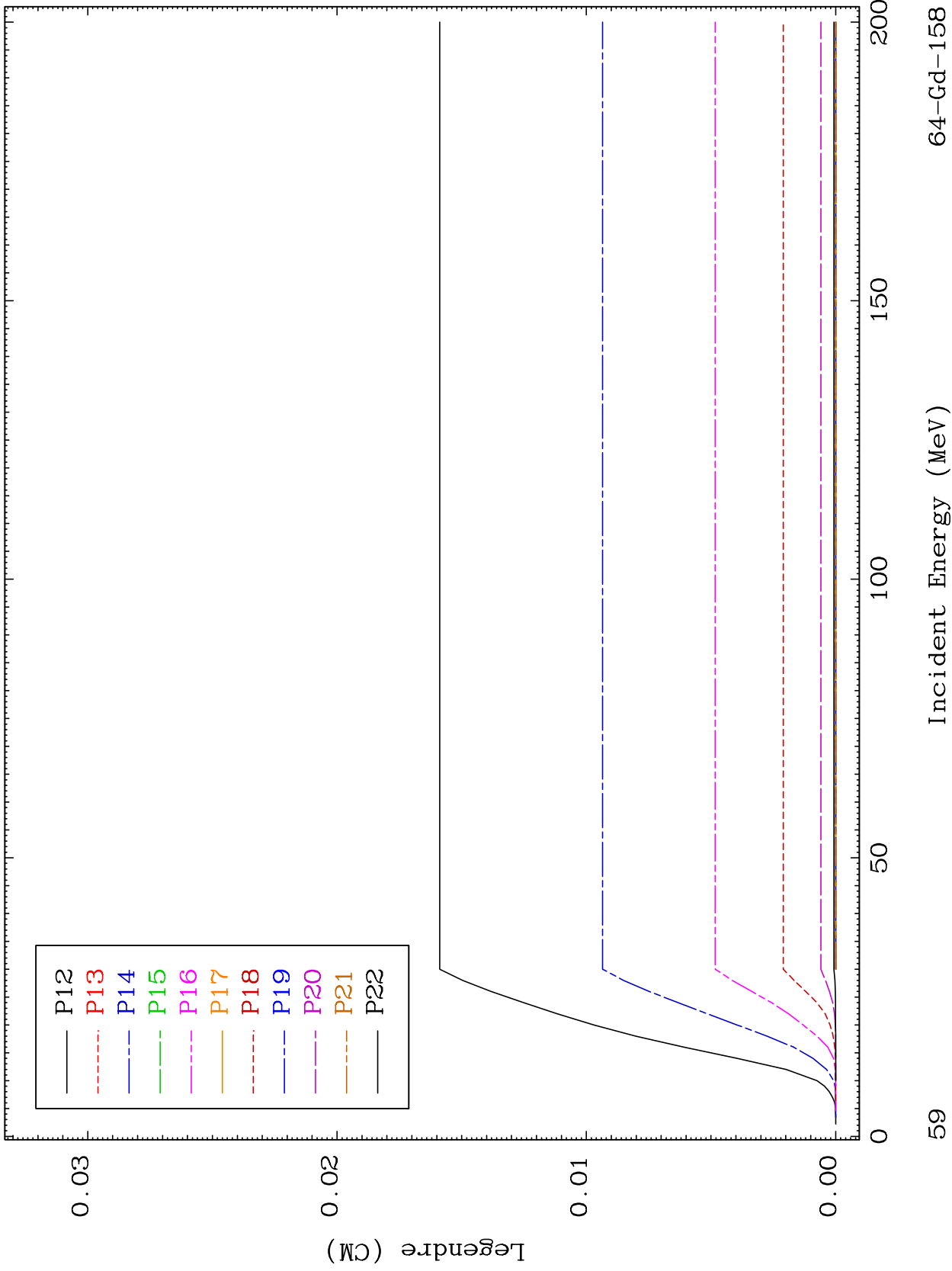




MAT 6443

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

64-Gd-158

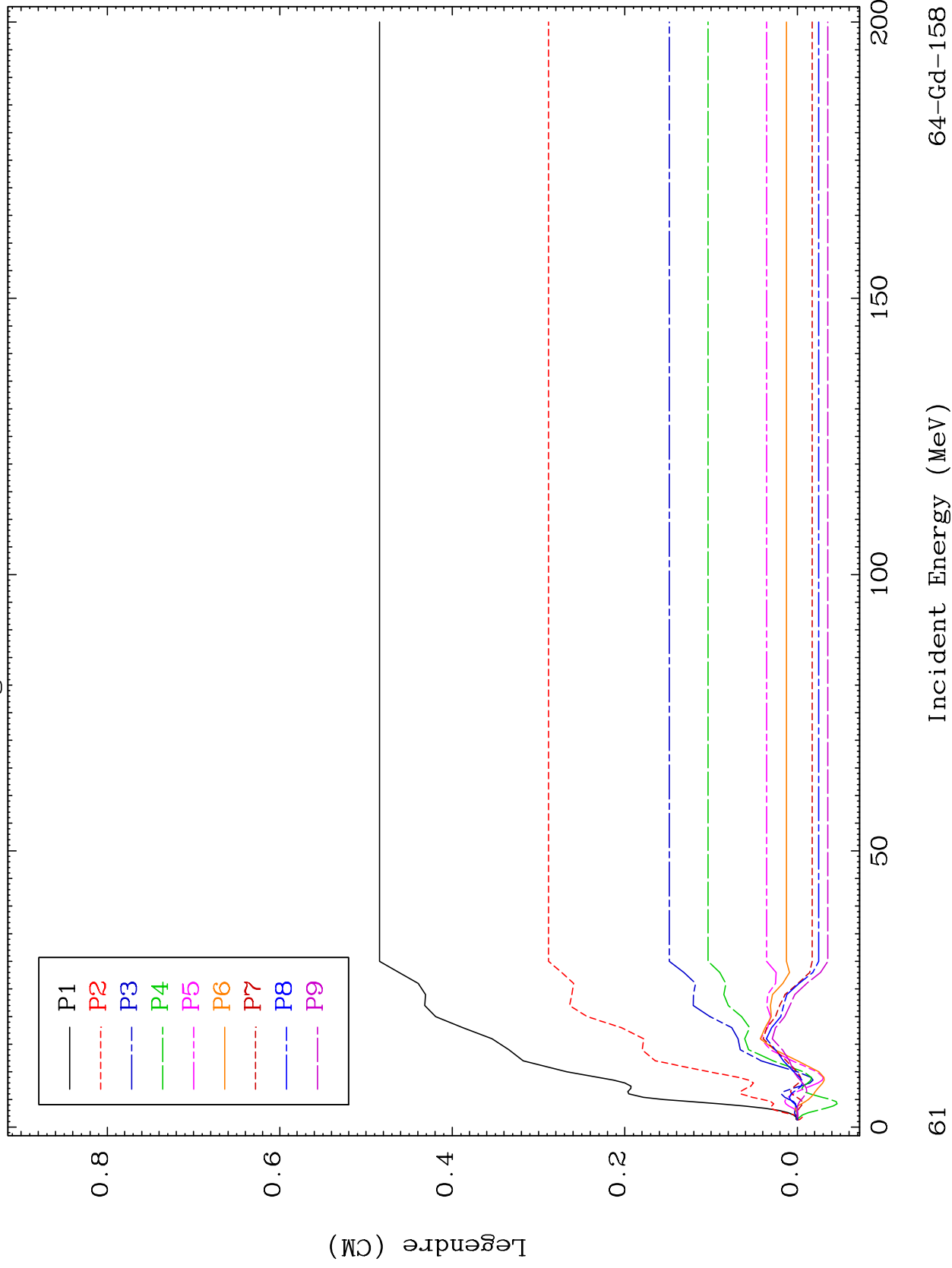




MAT 6443

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

64-Gd-158



64-Gd-158

Incident Energy (MeV)

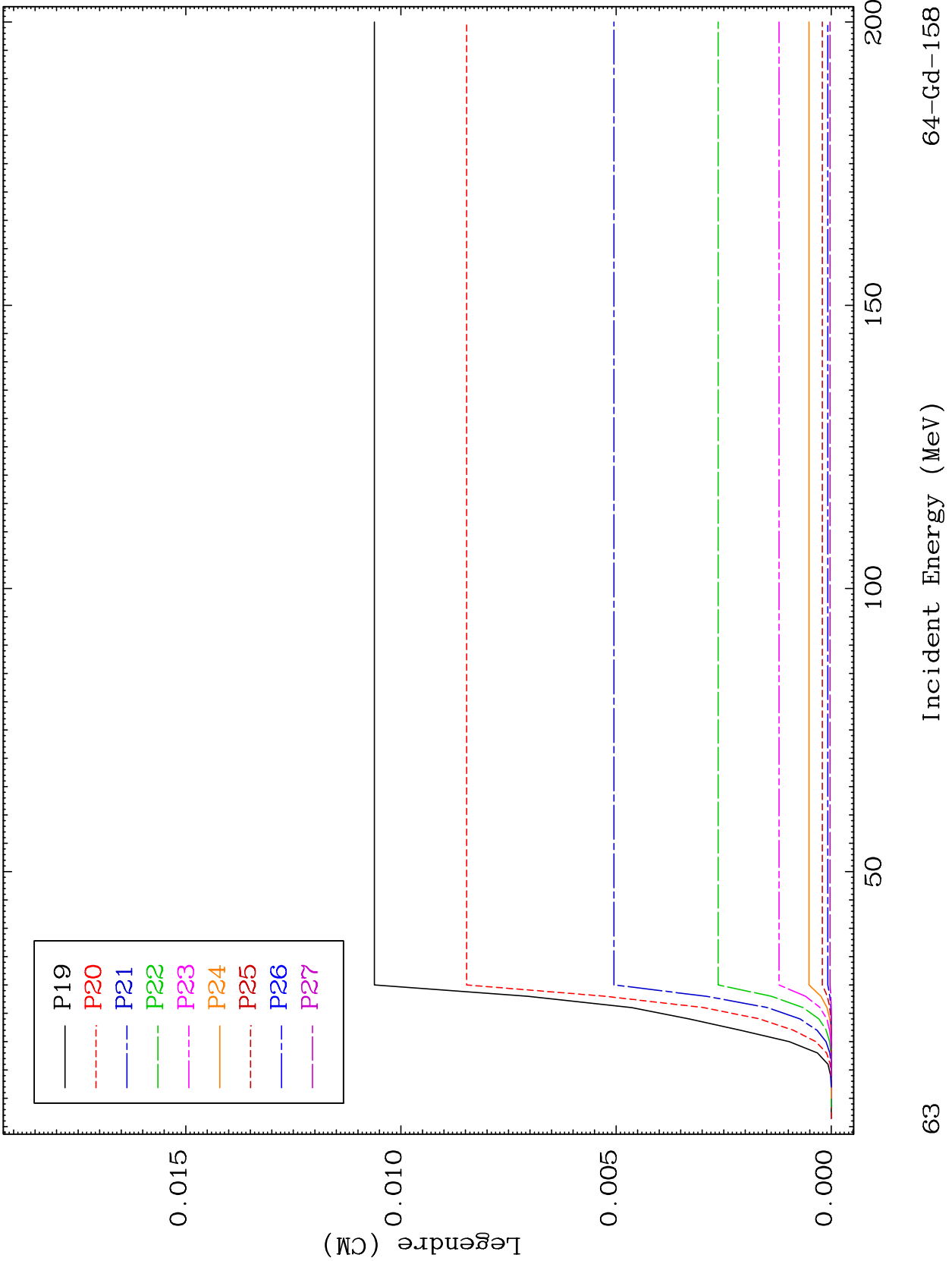
61



MAT 6443

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

64-Gd-158



63

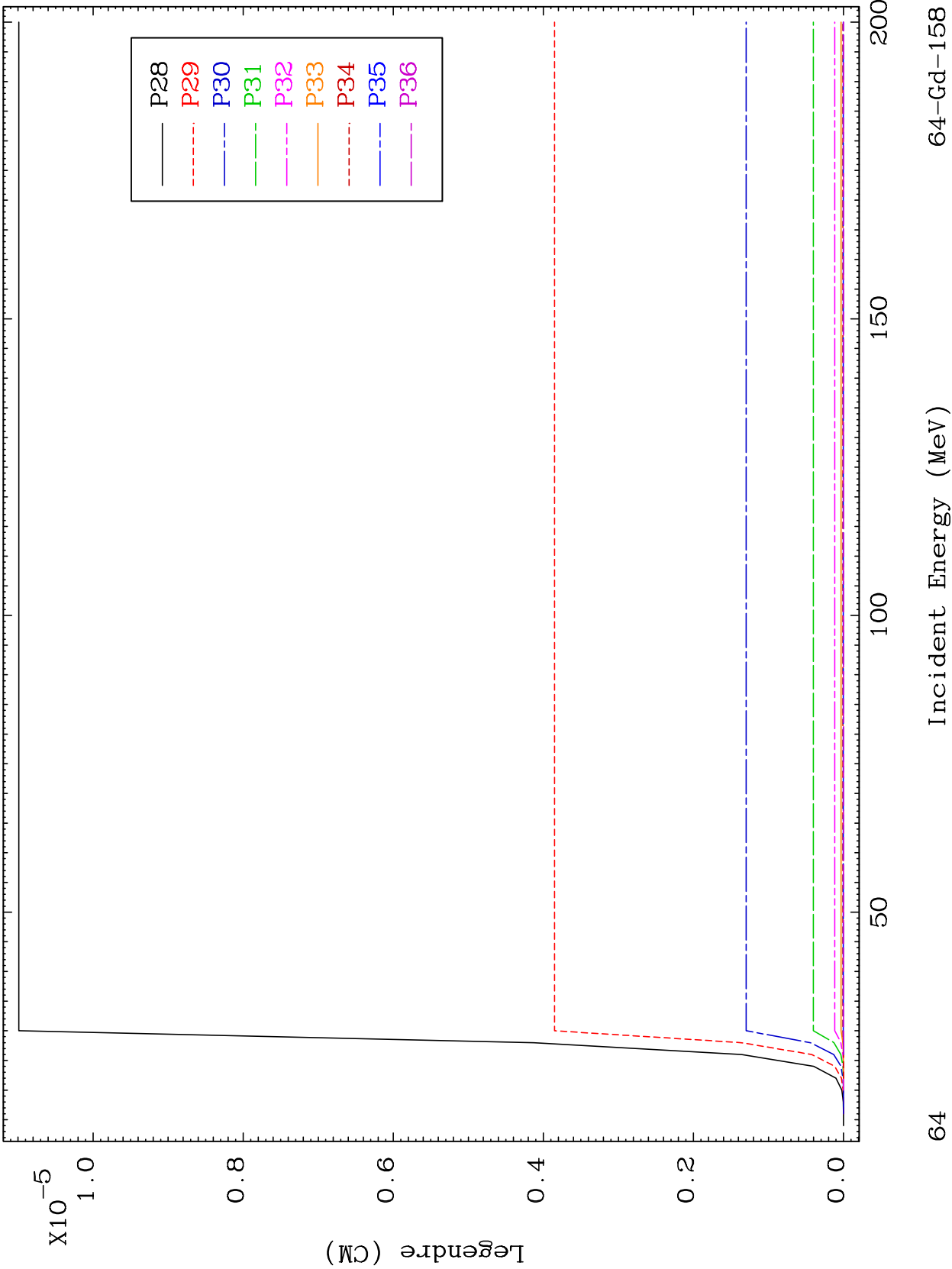
64-Gd-158



MAT 6443

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

64-Gd-158



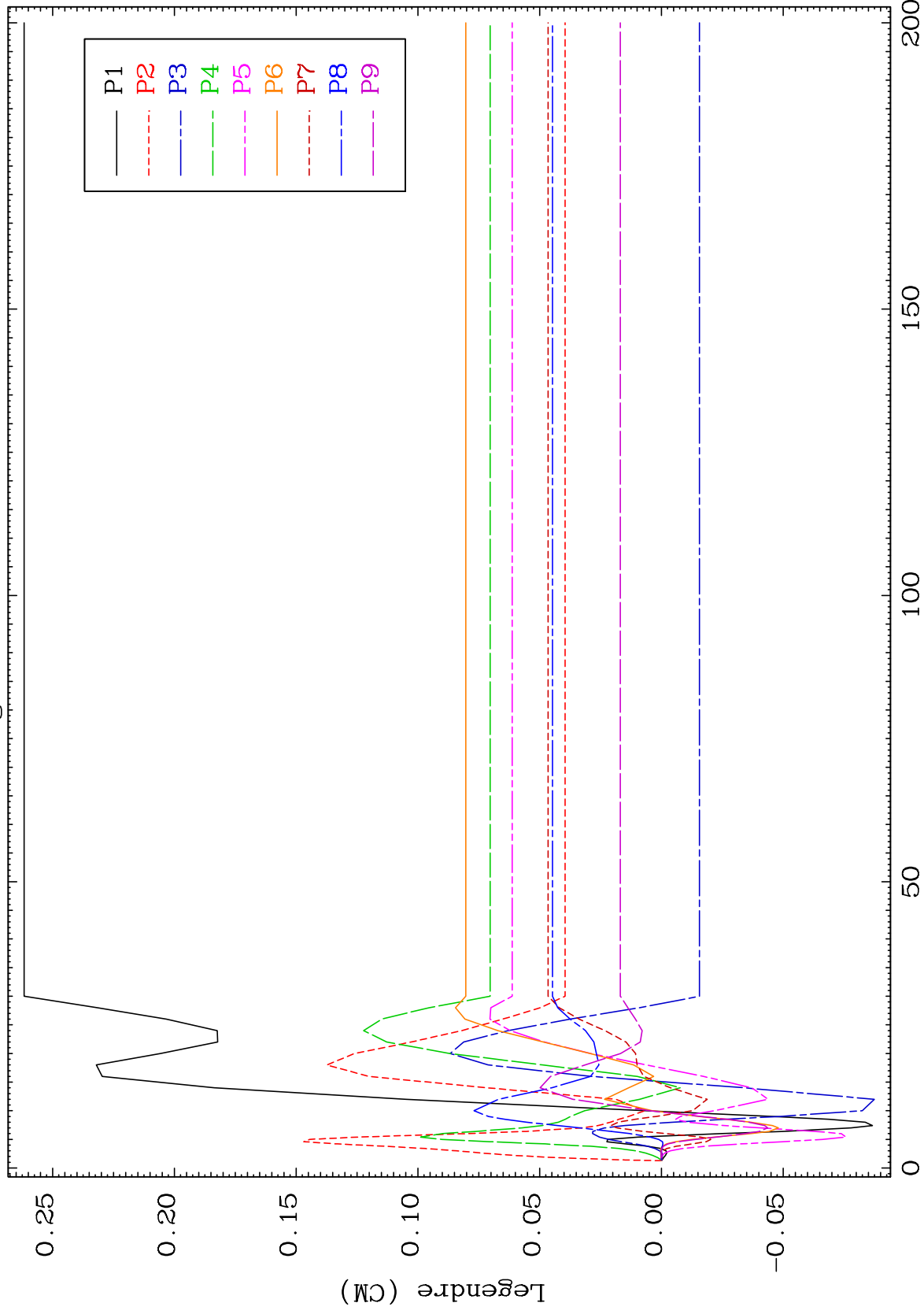
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64-Gd-158

MAT 6443

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

64-Gd-158



64-Gd-158

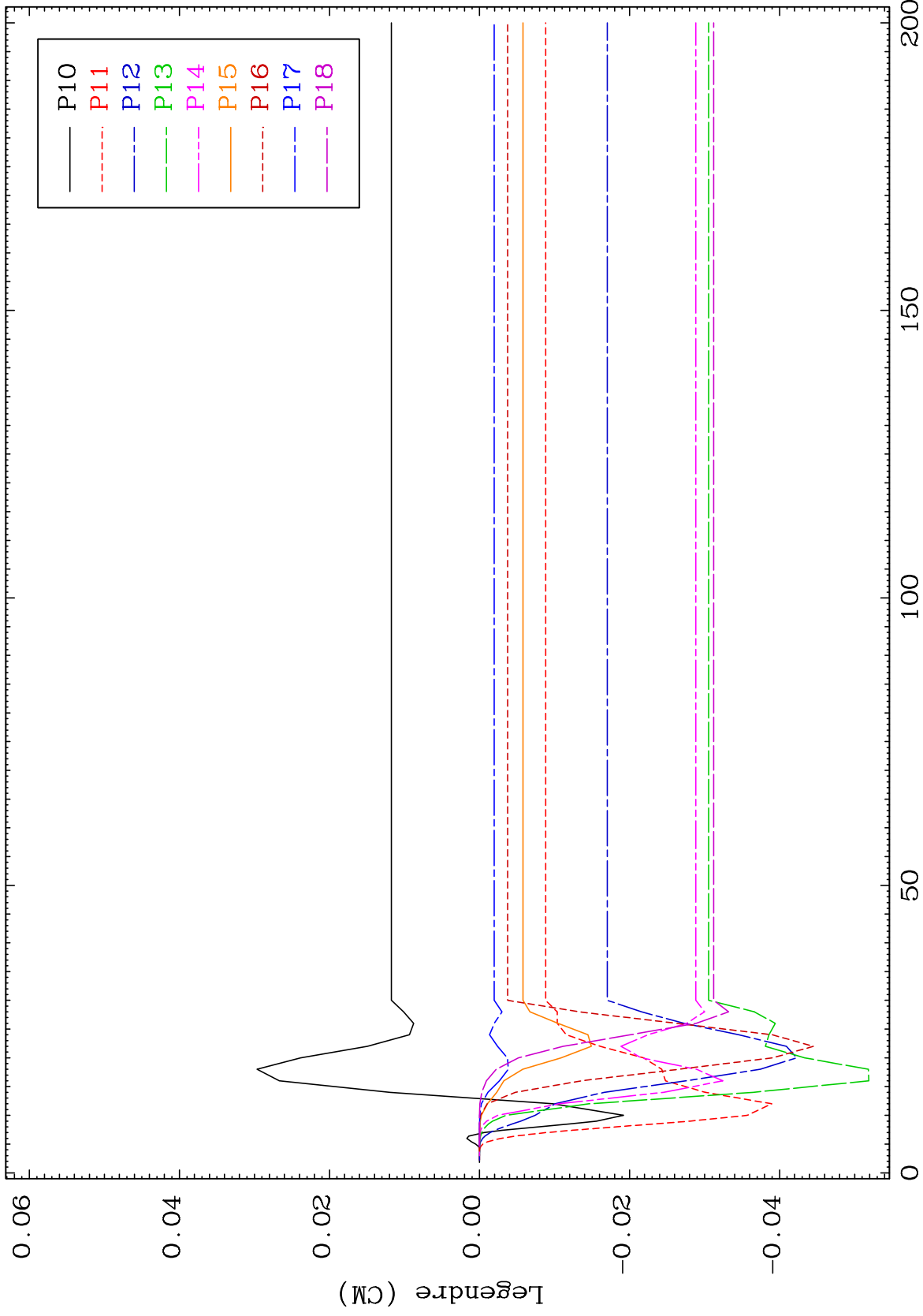
Incident Energy (MeV)

65

MAT 6443

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

64-Gd-158



66

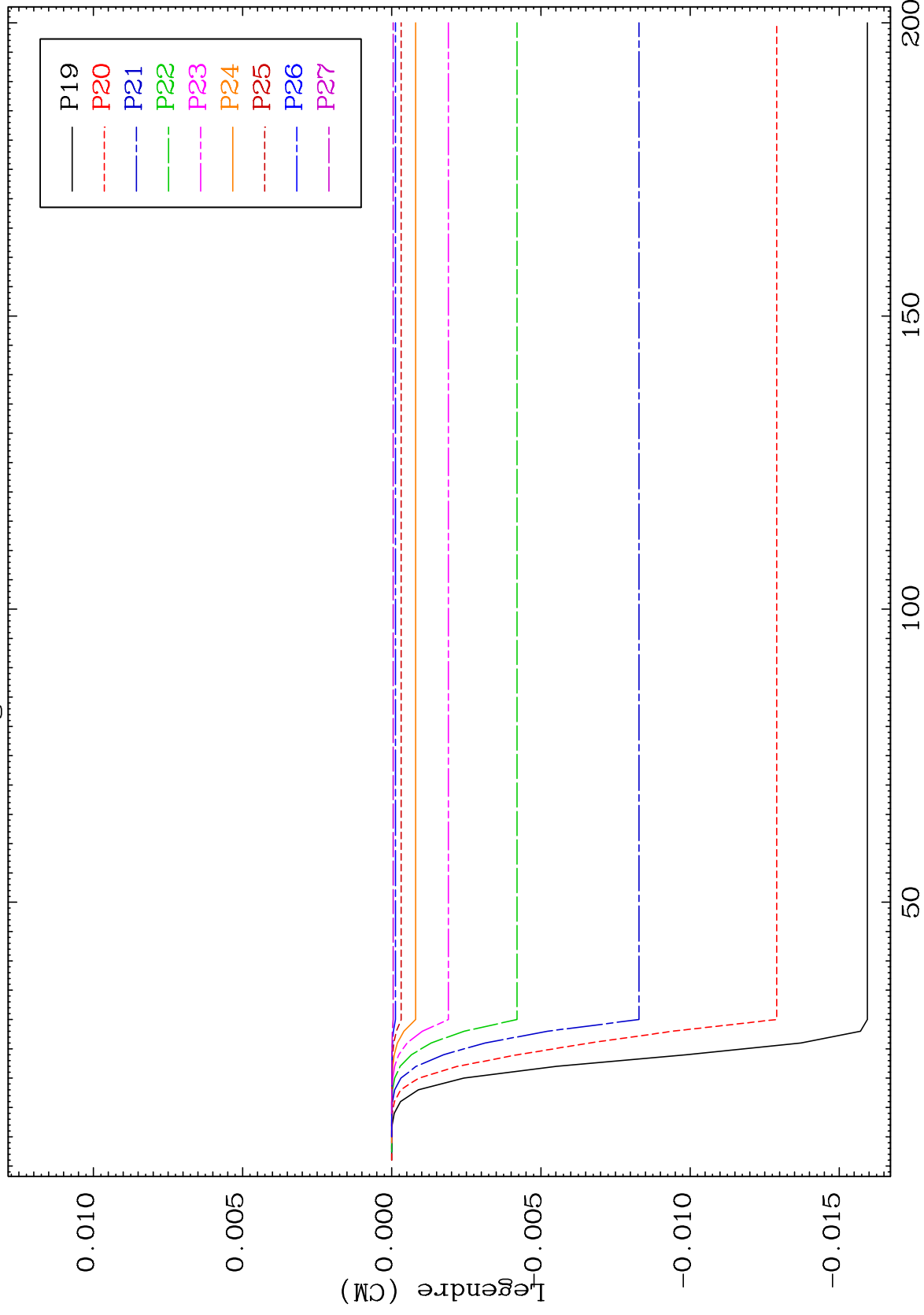
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



67

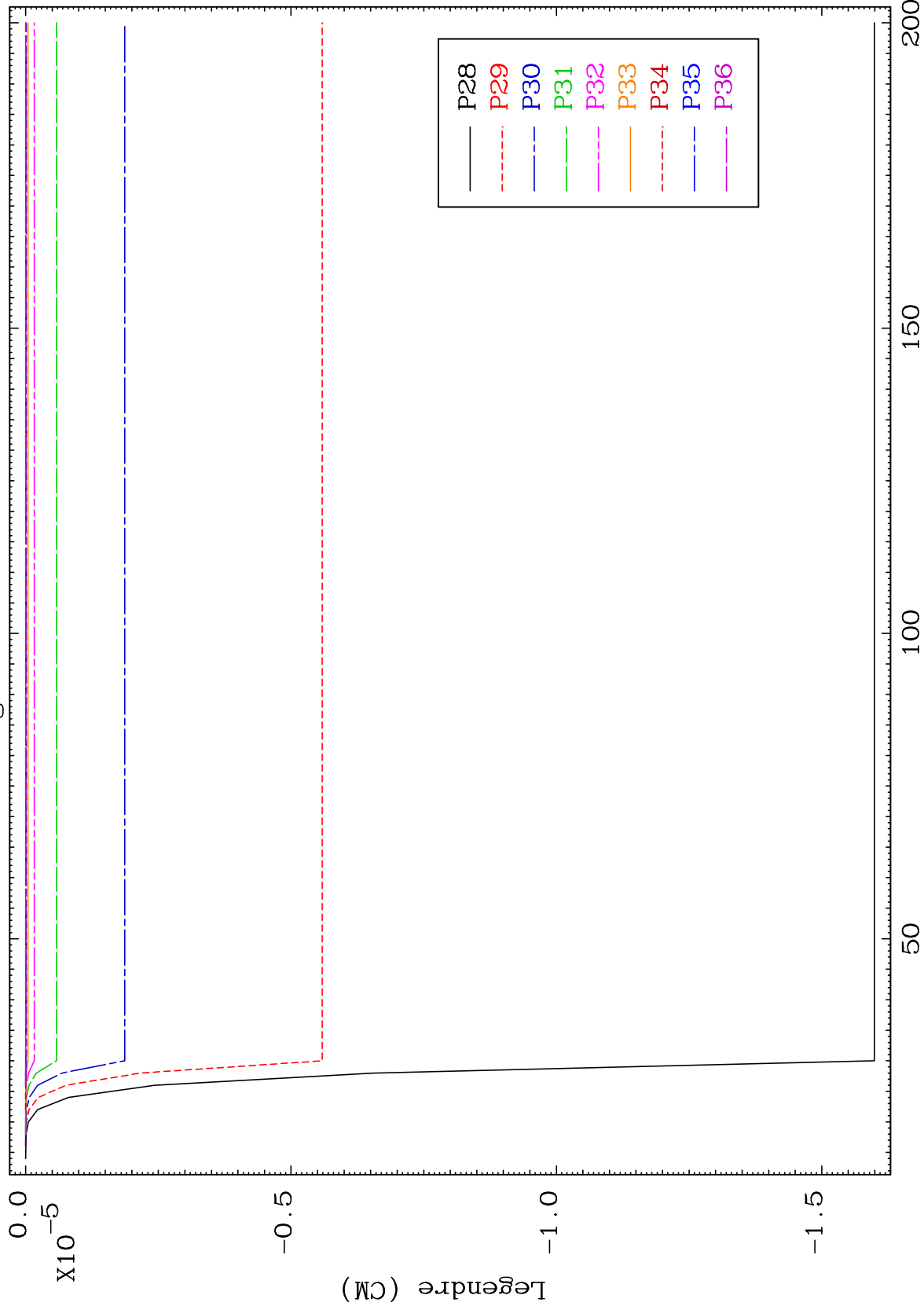
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



68

Incident Energy (MeV)

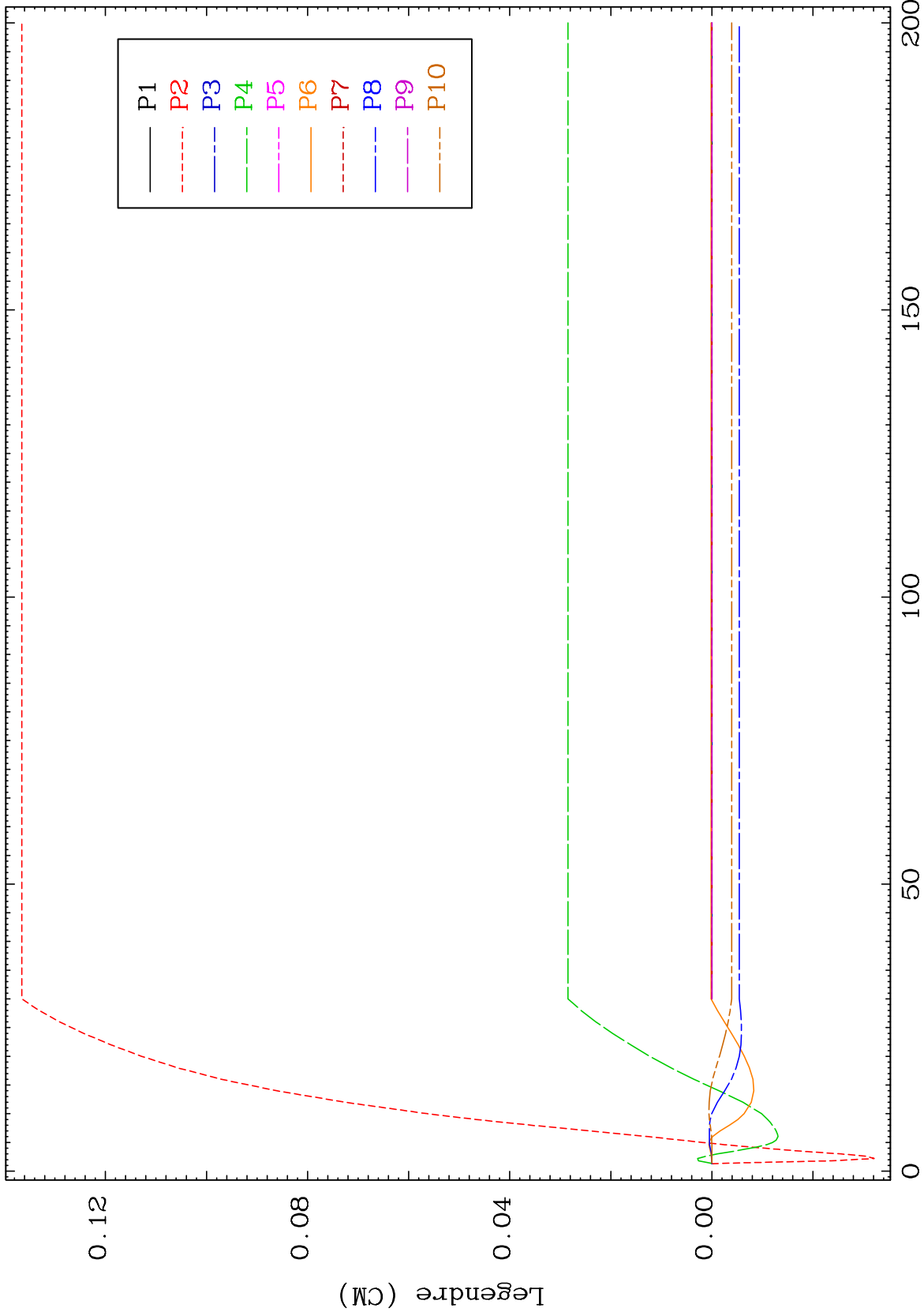
64-Gd-158

MAT 6443

MT= 64 (n,n') Level

64-Gd-158

Legendre Coefficients



69

Incident Energy (MeV)

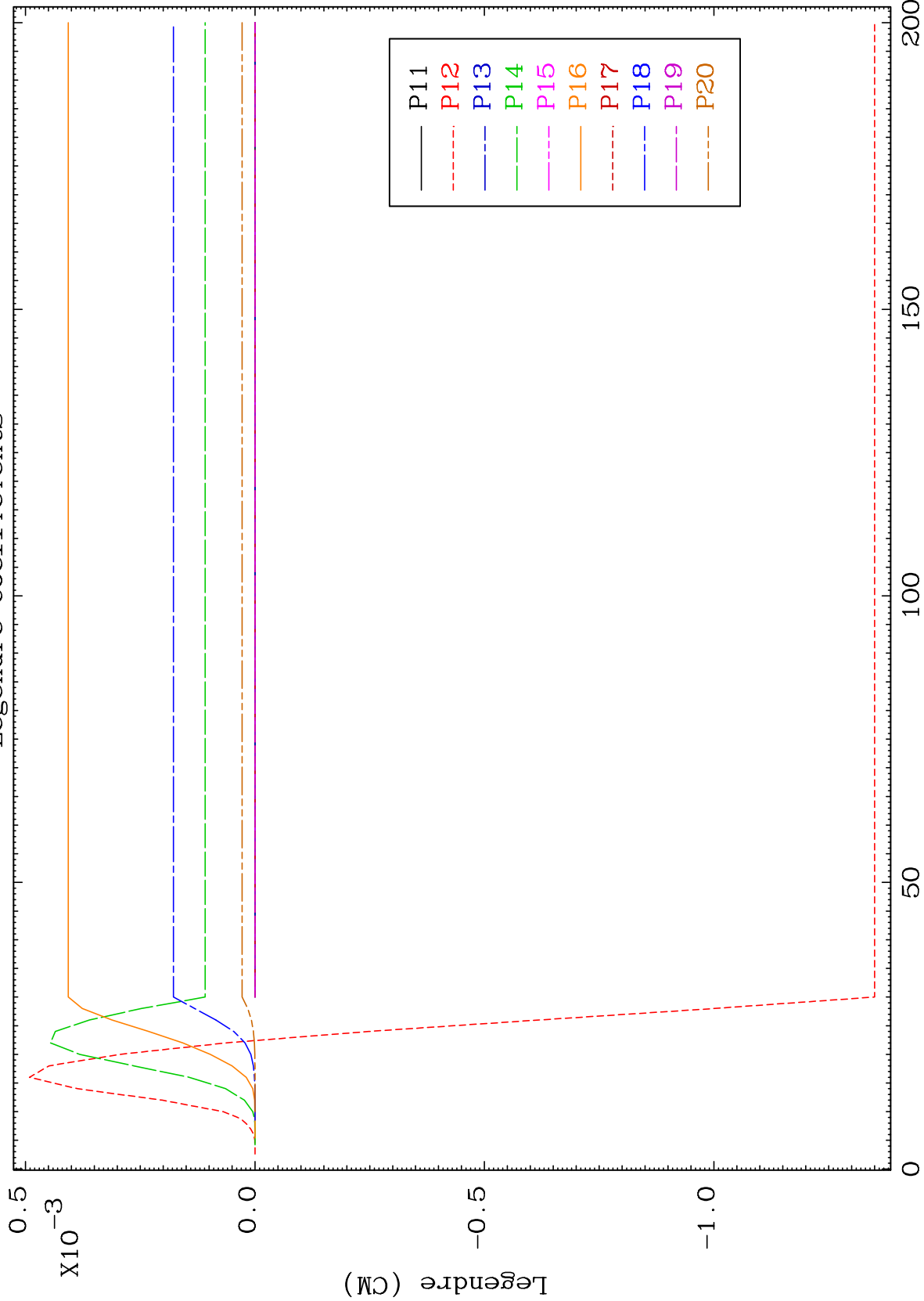
64-Gd-158

MAT 6443

MT= 64 (n,n') Level

64-Gd-158

Legendre Coefficients



70

Incident Energy (MeV)

64-Gd-158



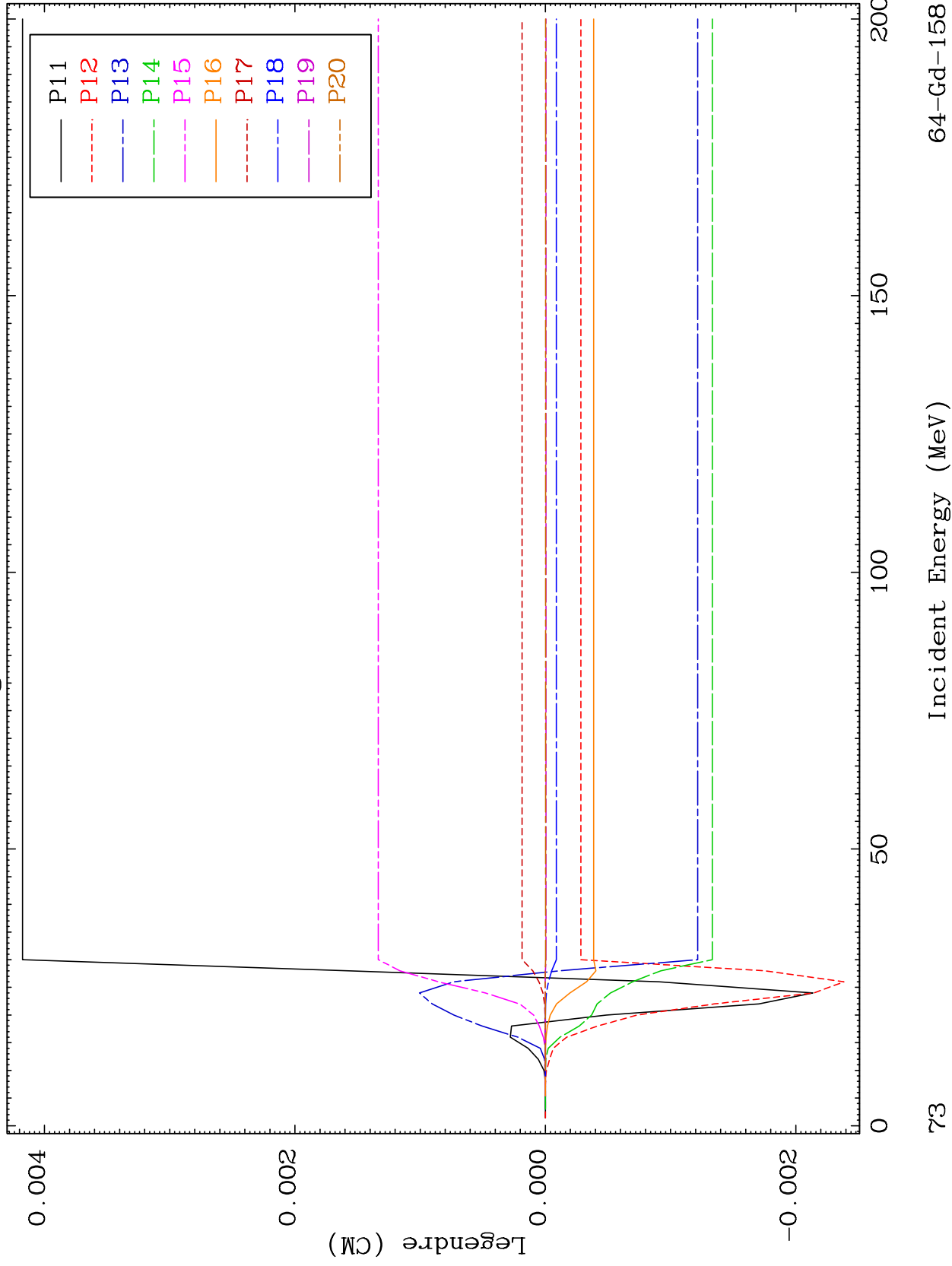




MAT 6443

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

64-Gd-158



73

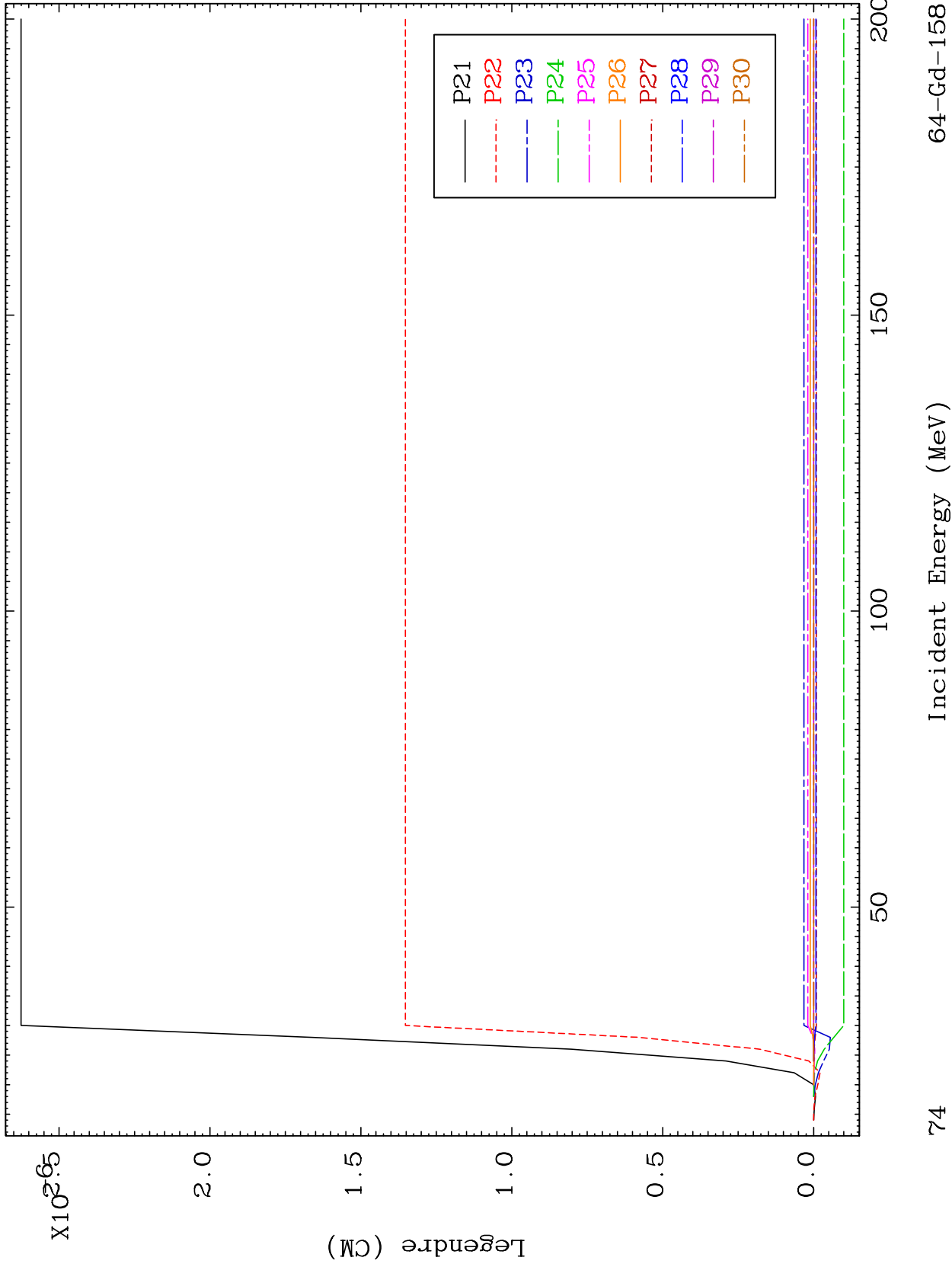
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

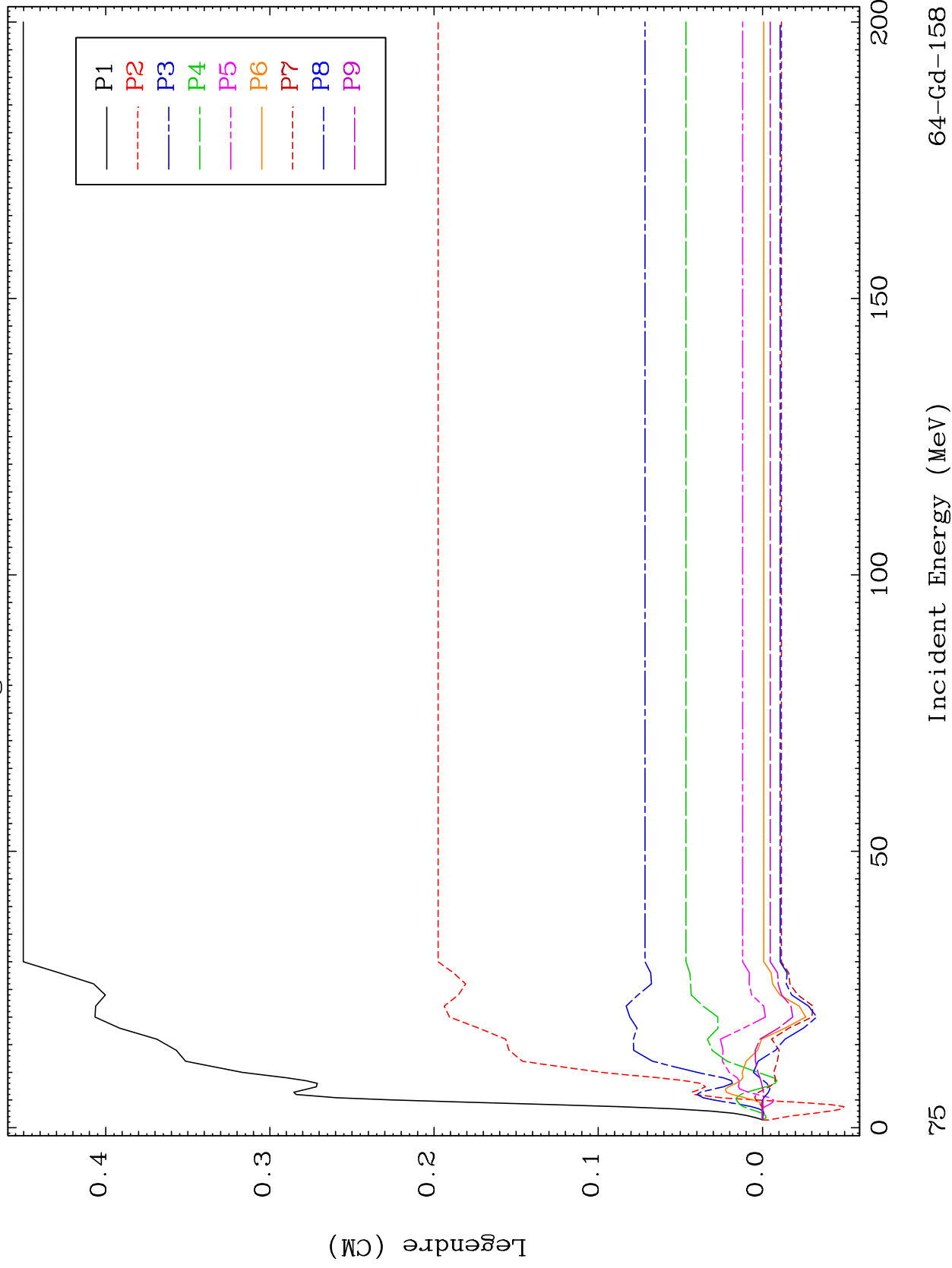
64-Gd-158



MAT 6443

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

64-Gd-158



64-Gd-158

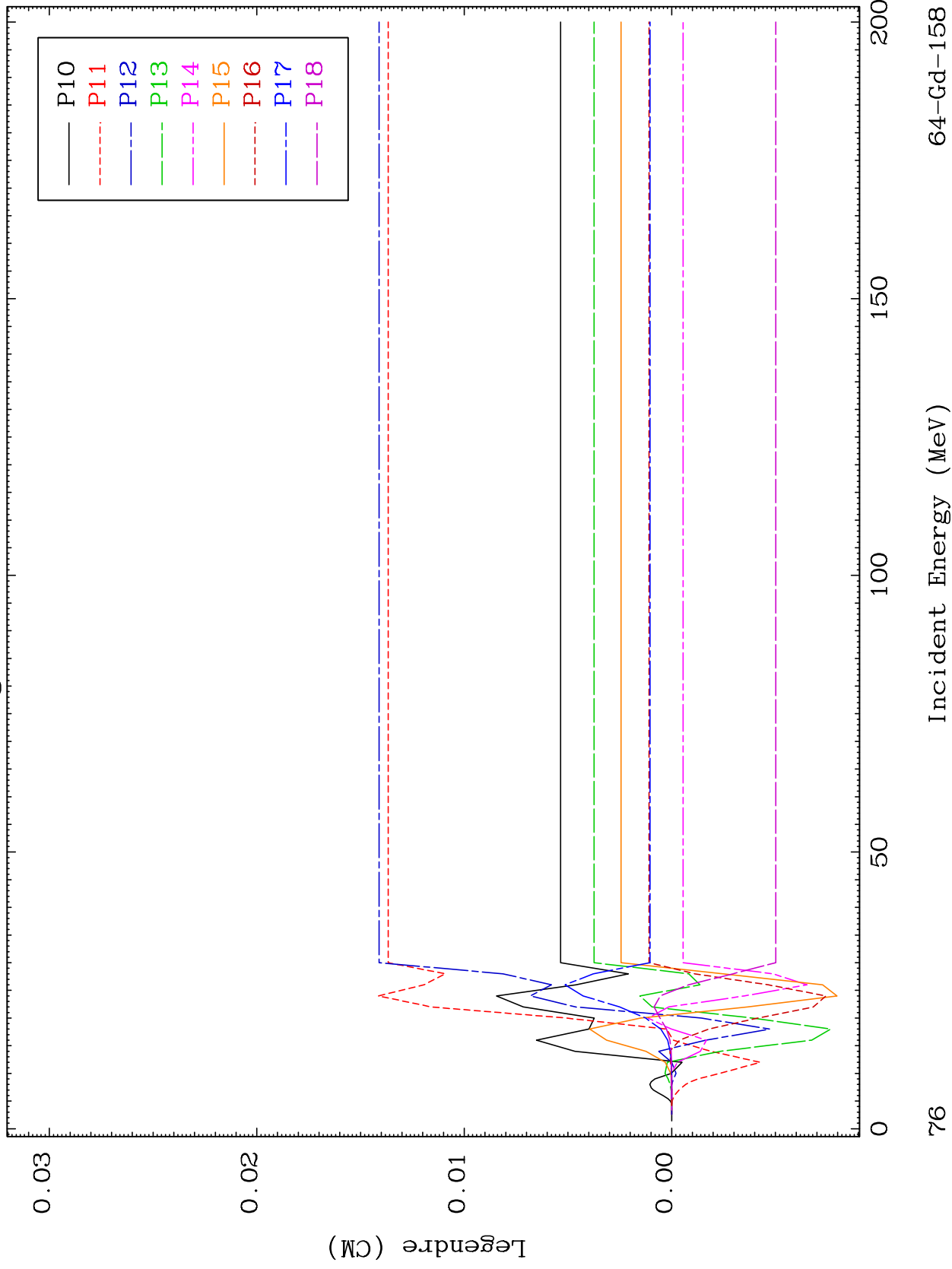
Incident Energy (MeV)

75

MAT 6443

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

64-Gd-158



76

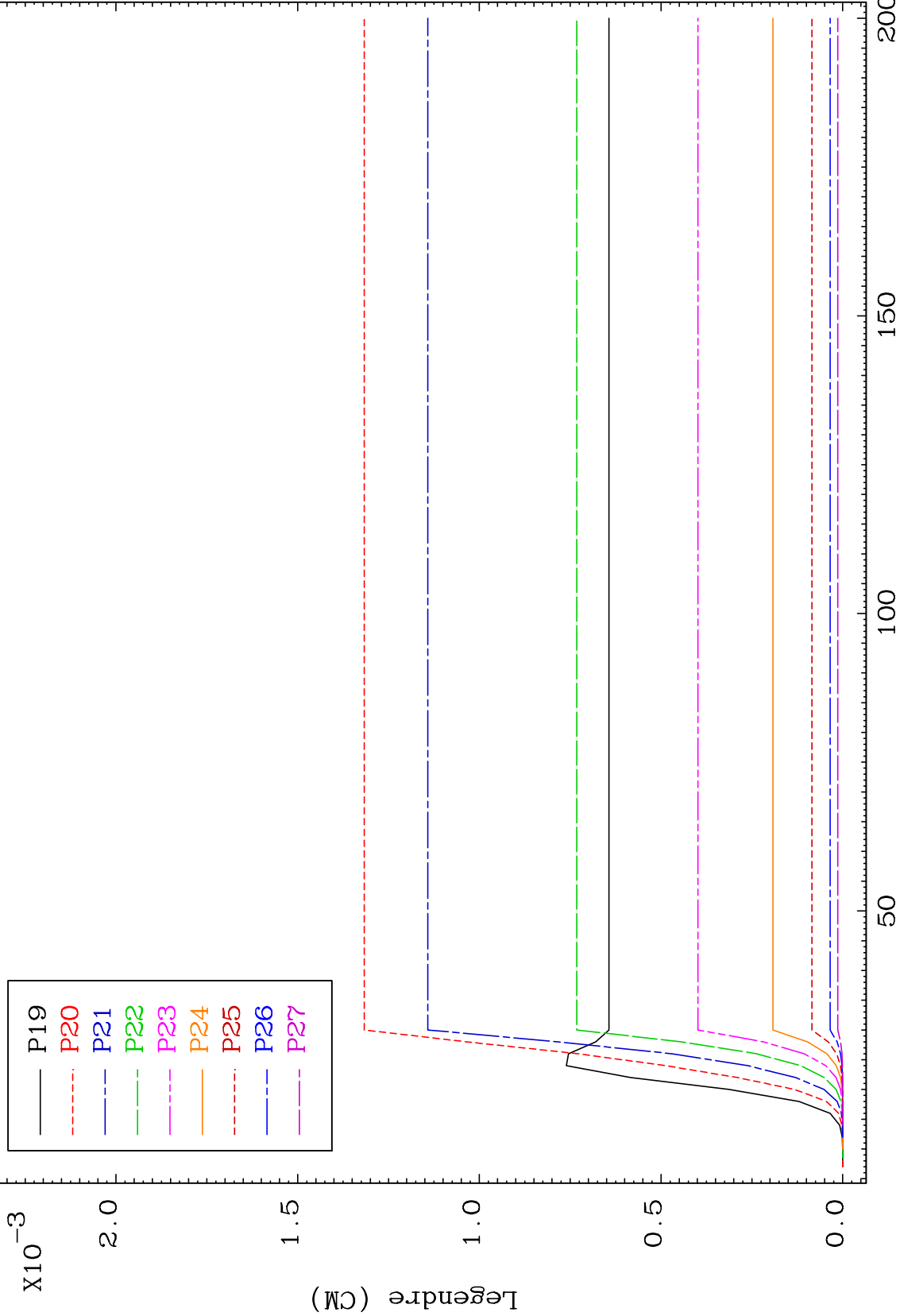
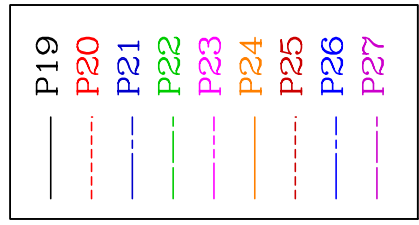
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

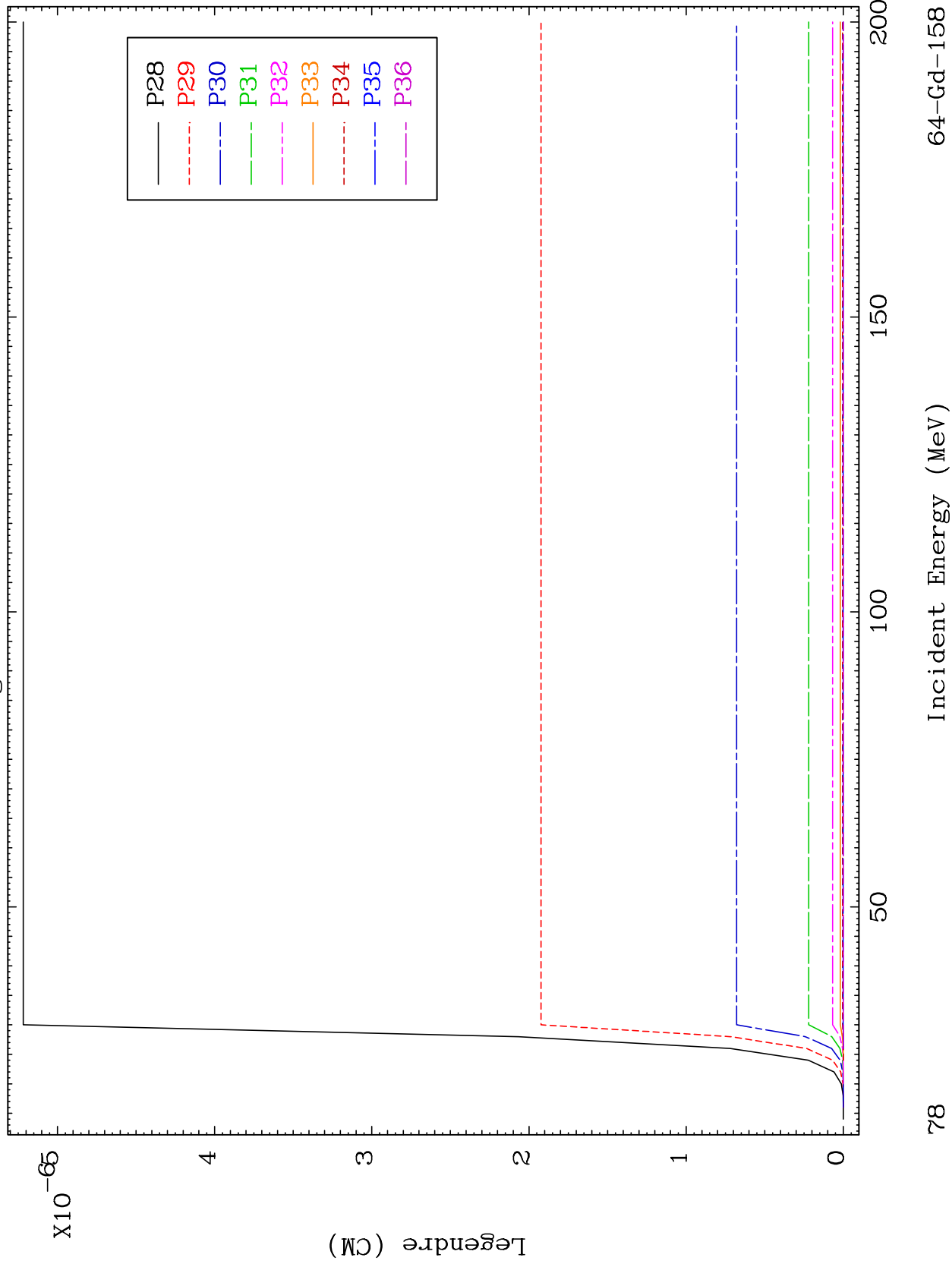
64-Gd-158



MAT 6443

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

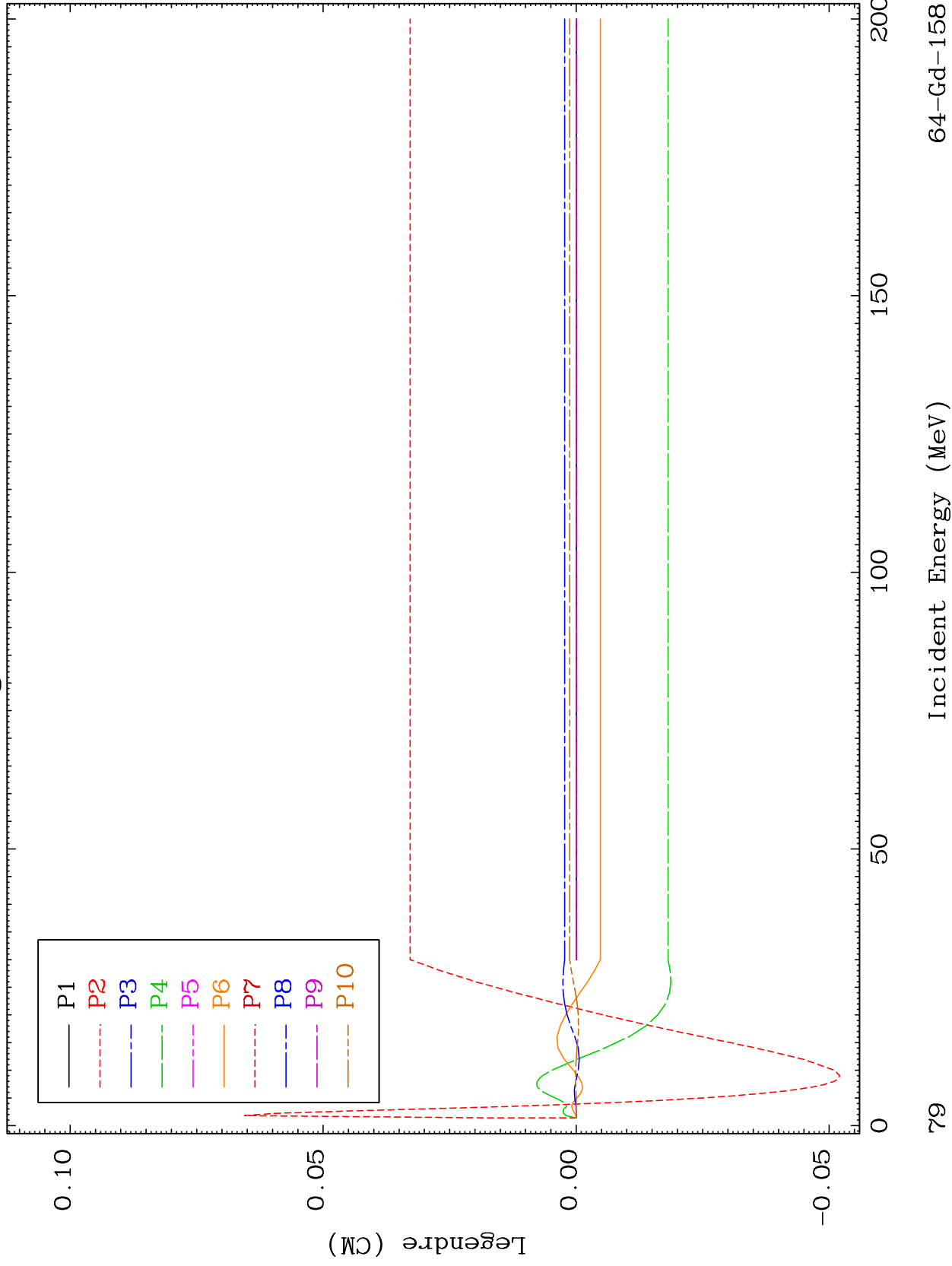
64-Gd-158



MAT 6443

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

64-Gd-158



64-Gd-158

Incident Energy (MeV)

79

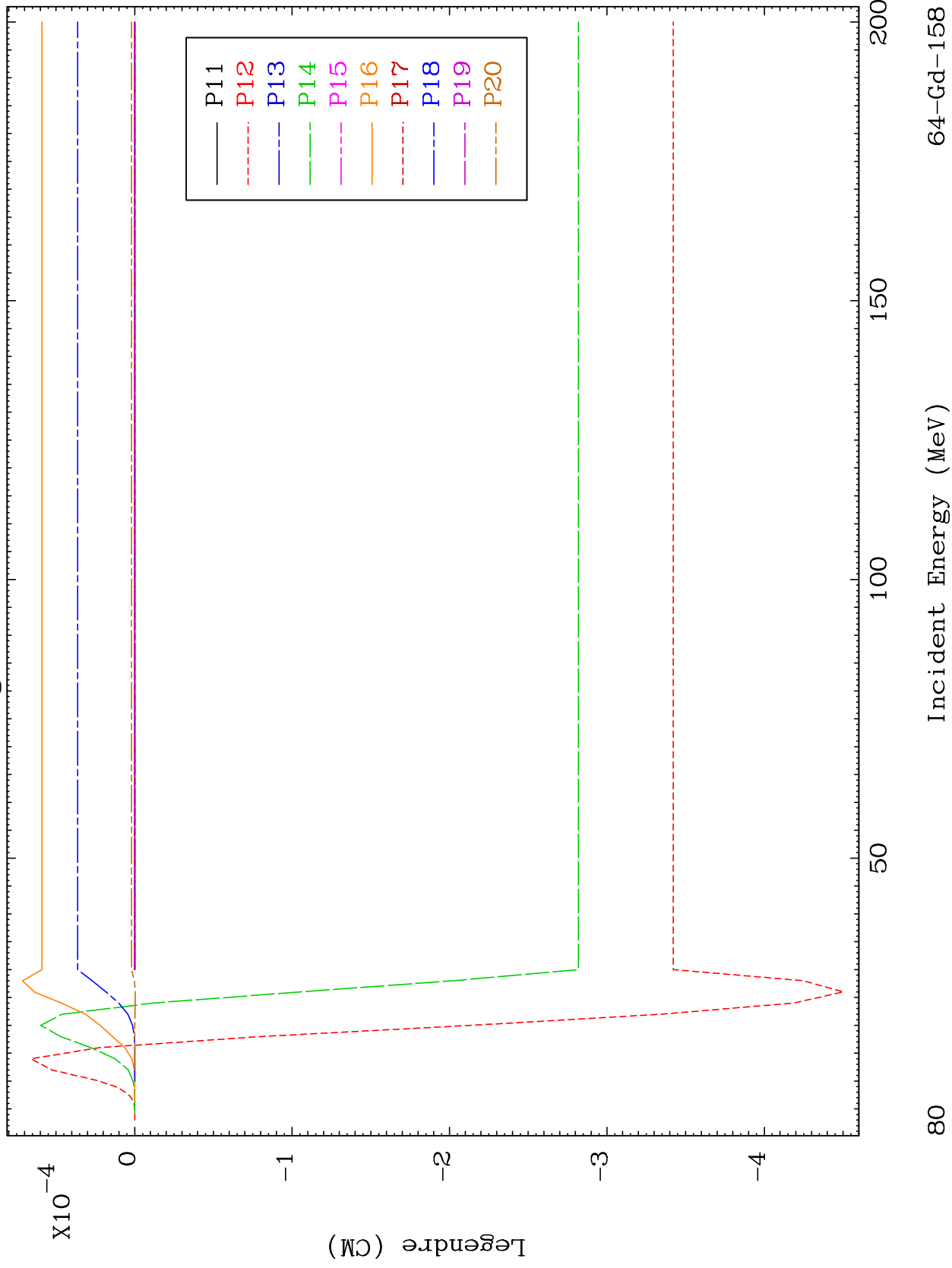


MAT 6443

MT= 67 (n,n') Level

64-Gd-158

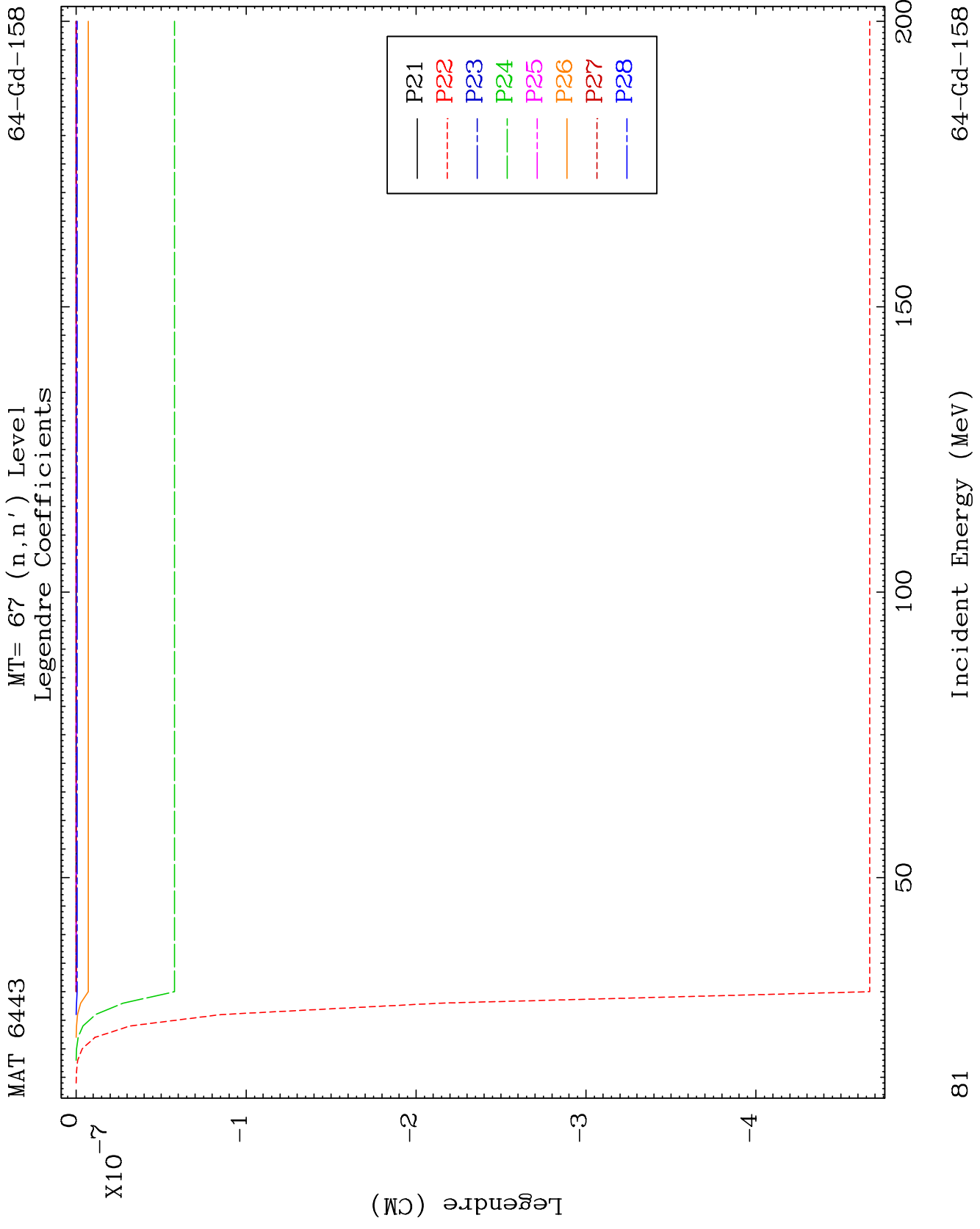
Legendre Coefficients



80

Incident Energy (MeV)

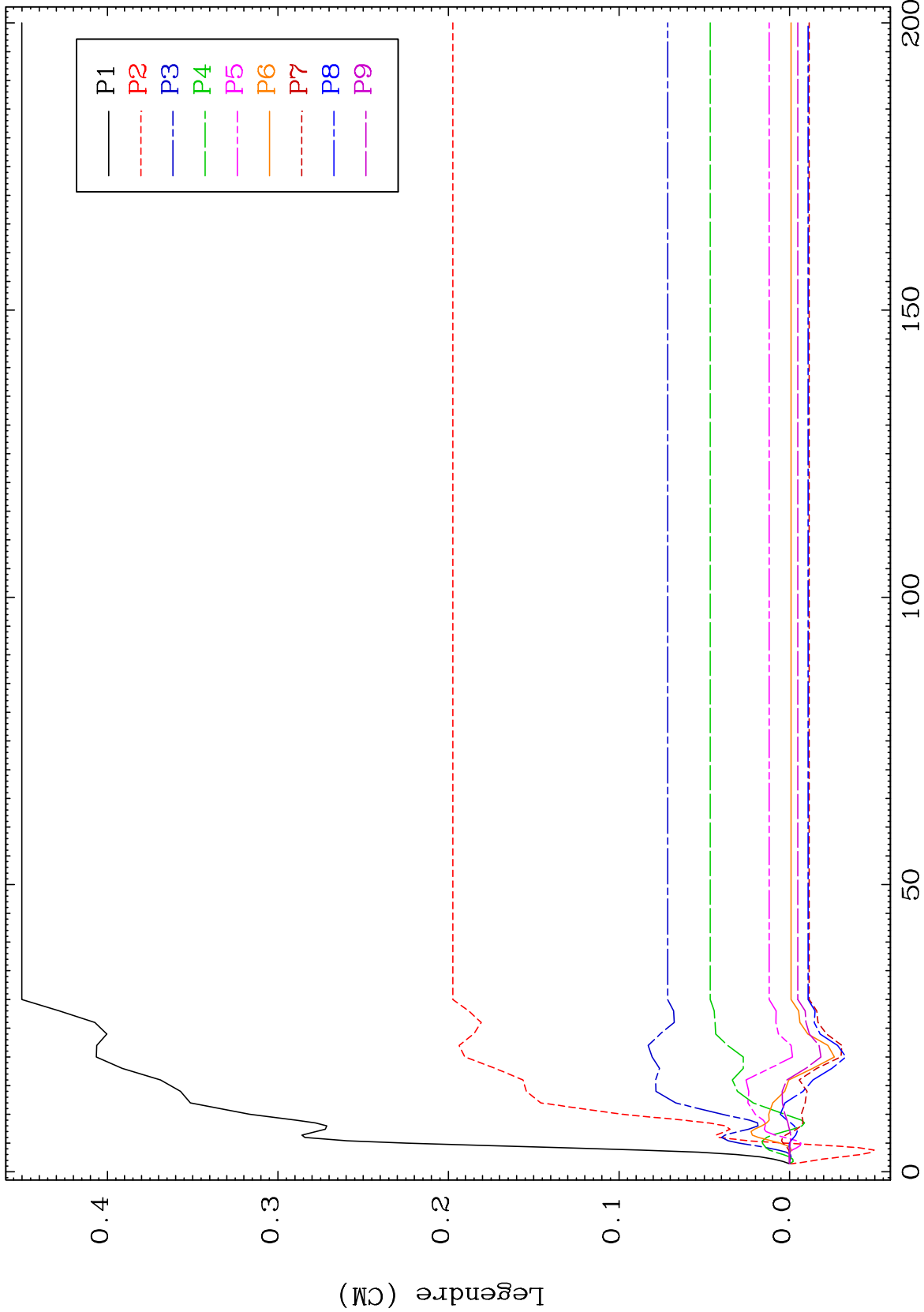
64-Gd-158



MAT 6443

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

64-Gd-158



82

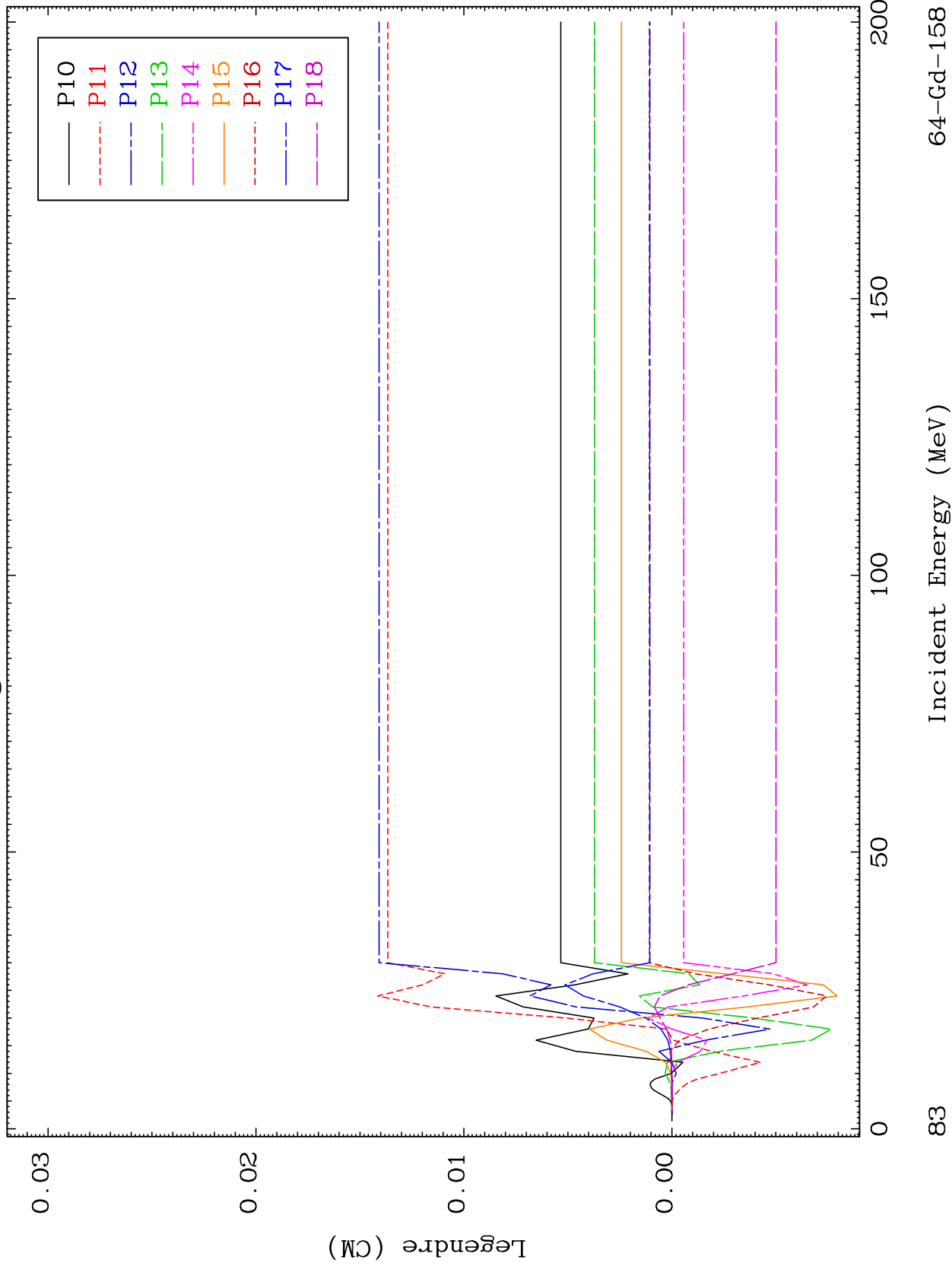
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



64-Gd-158

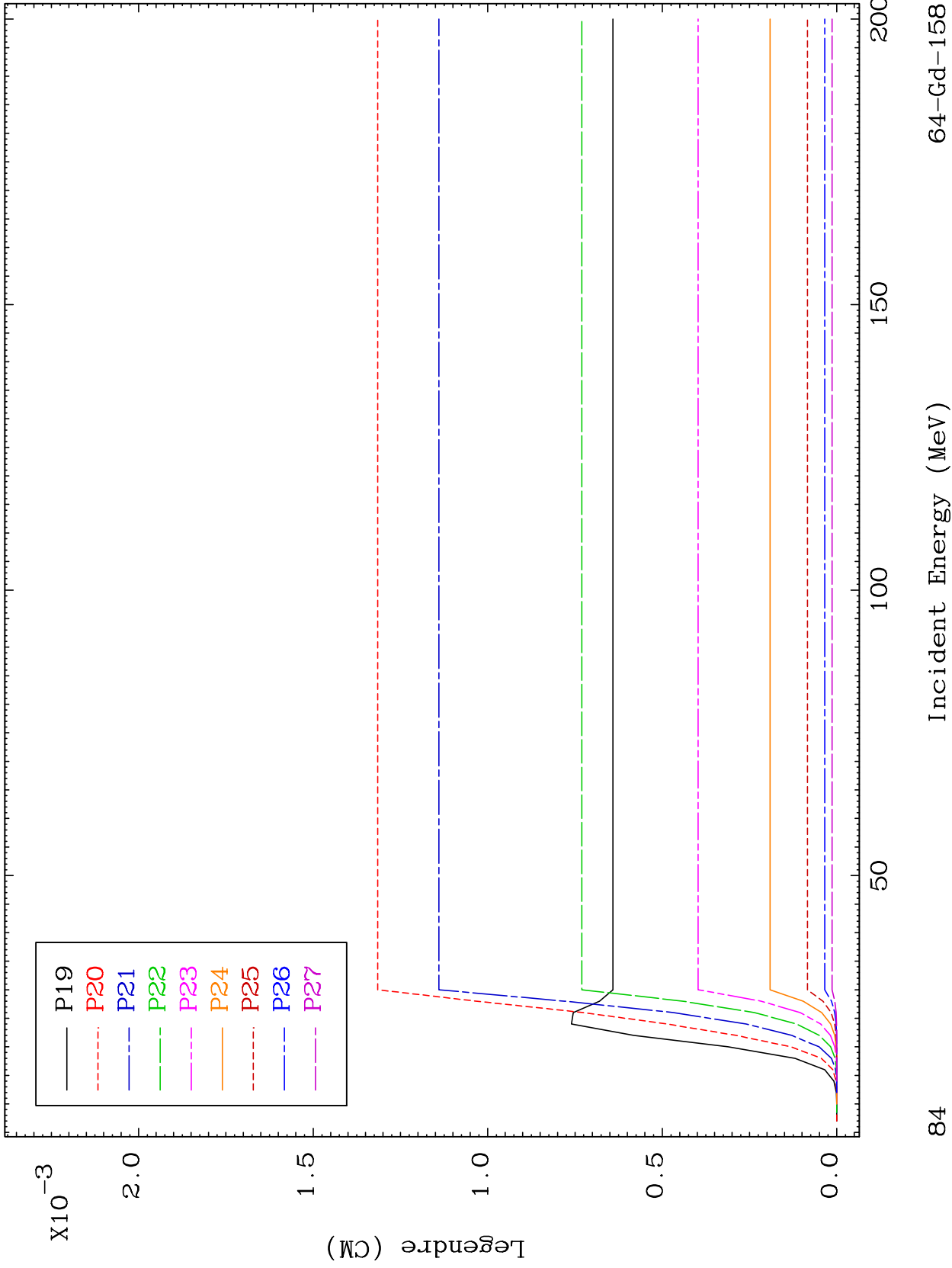
Incident Energy (MeV)

83

MAT 6443

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

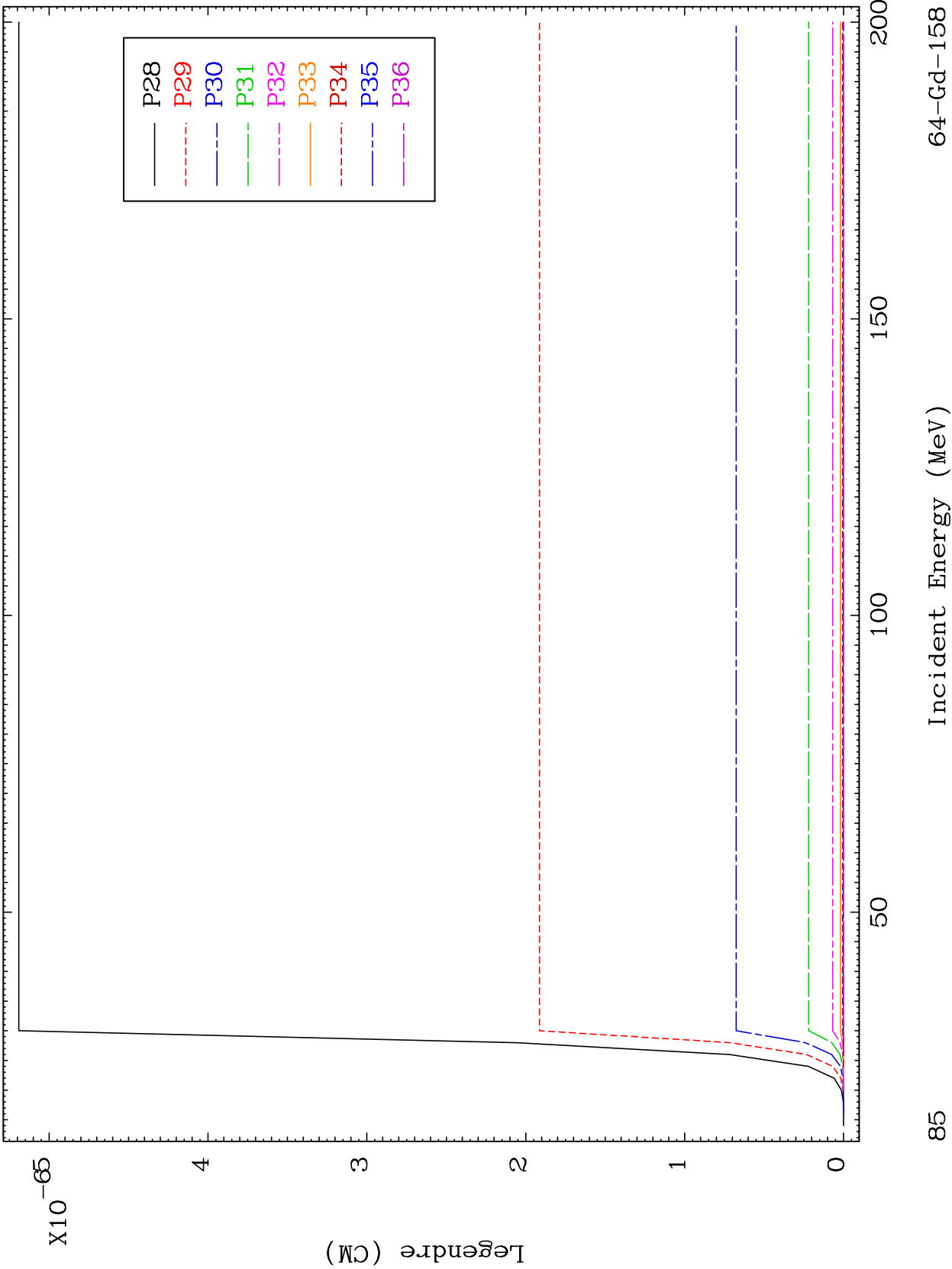
64-Gd-158



MAT 6443

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

64-Gd-158



85

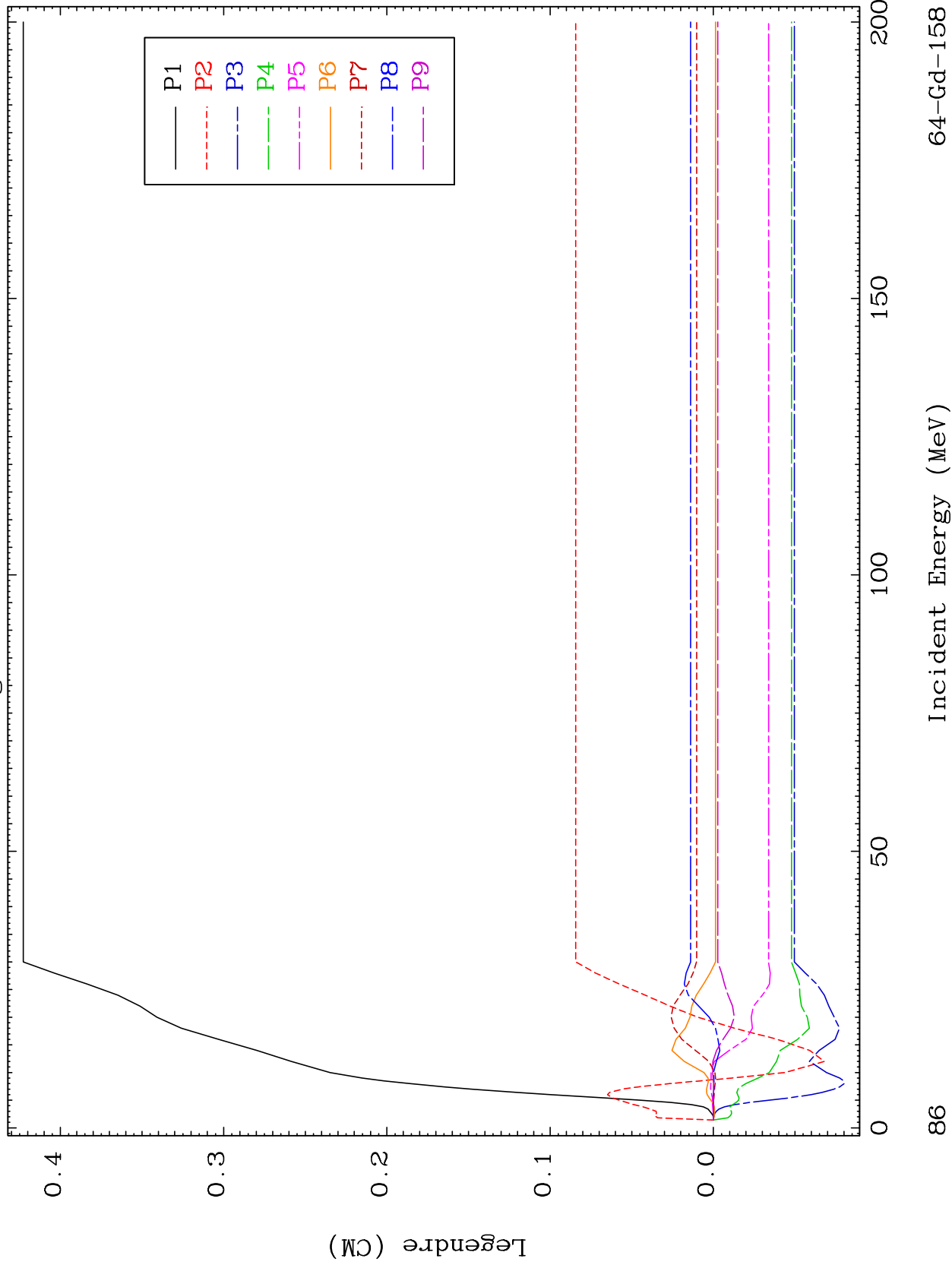
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



64-Gd-158

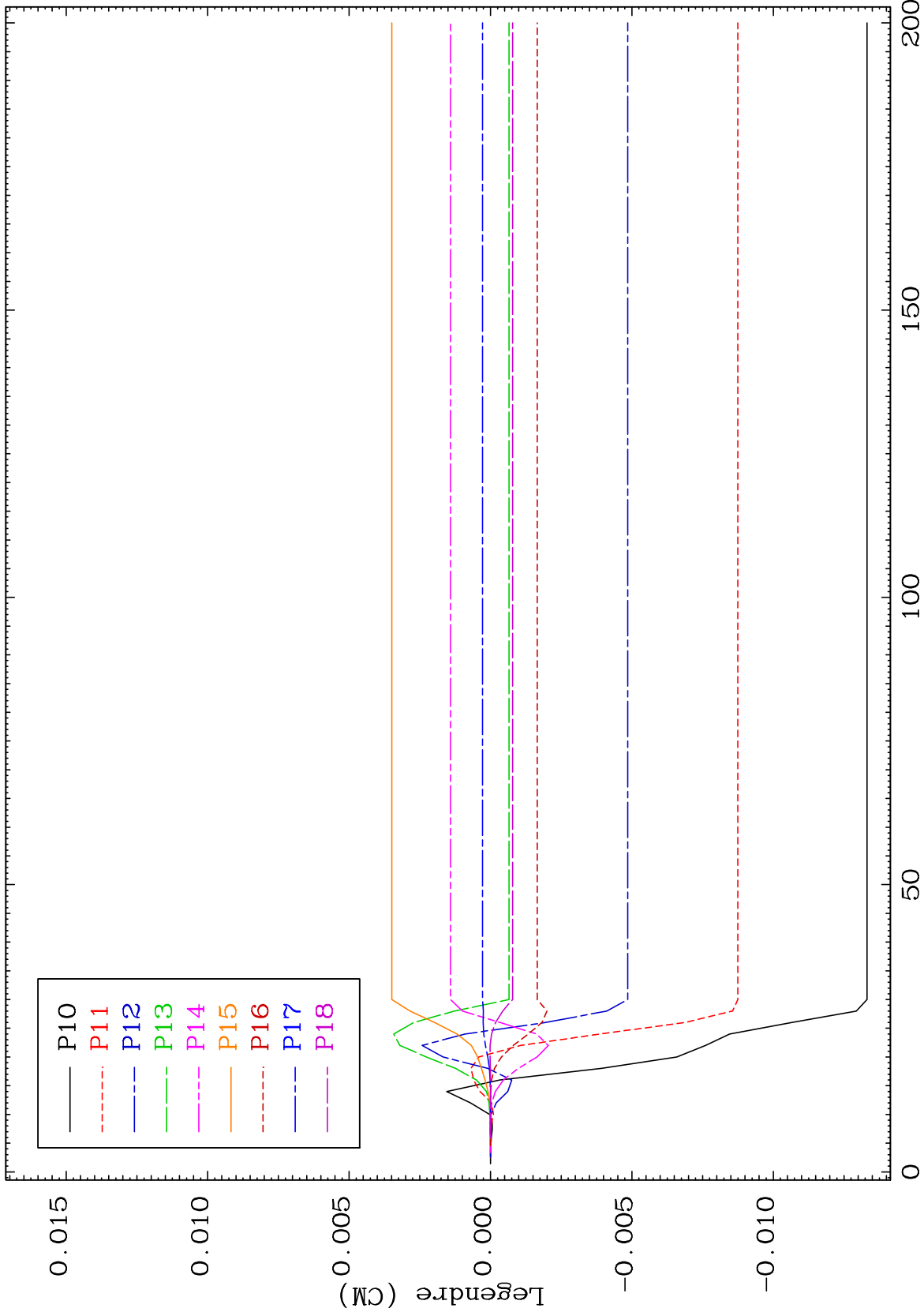
Incident Energy (MeV)

86

MAT 6443

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

64-Gd-158



87

Incident Energy (MeV)

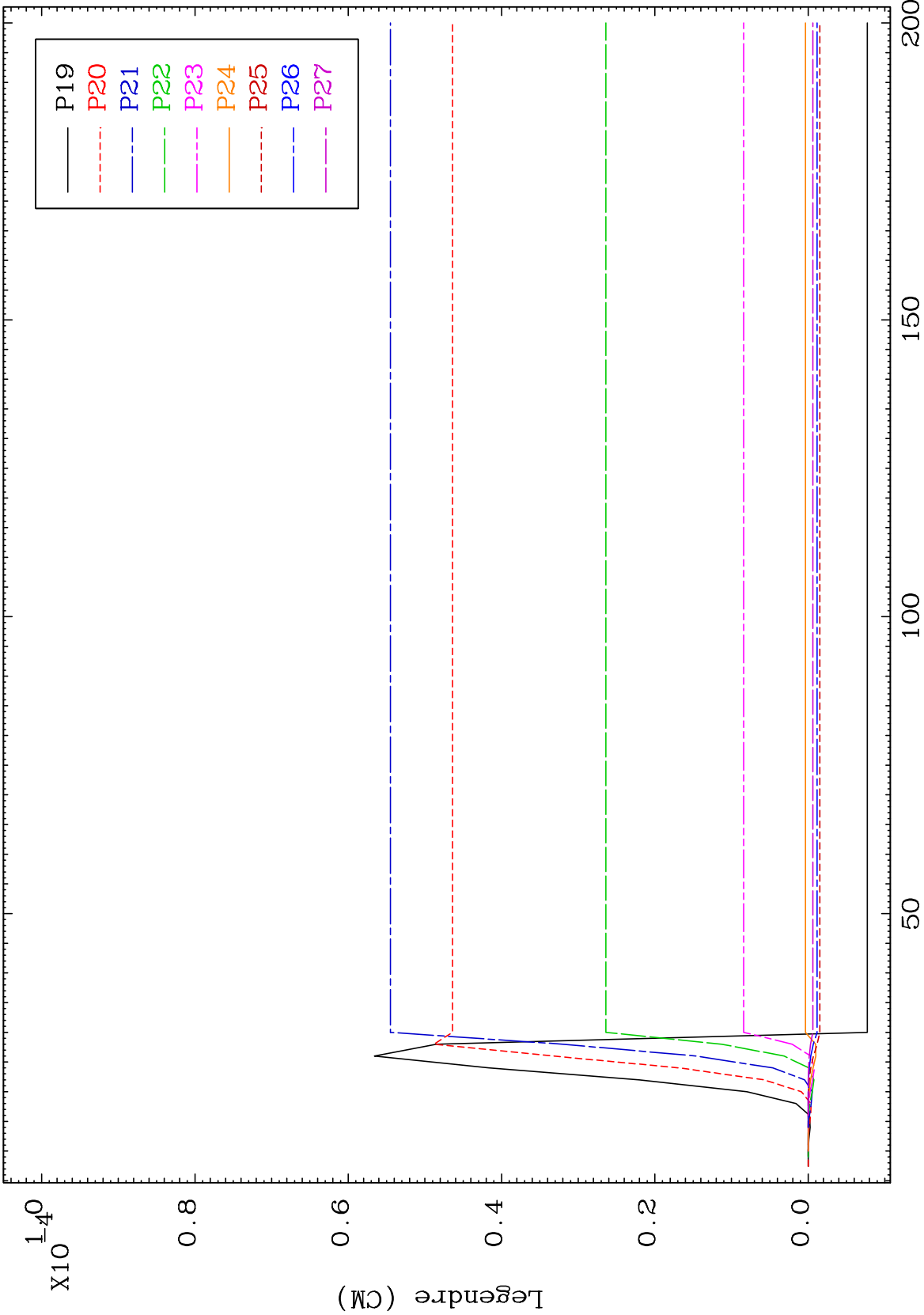
64-Gd-158



MAT 6443

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

64-Gd-158

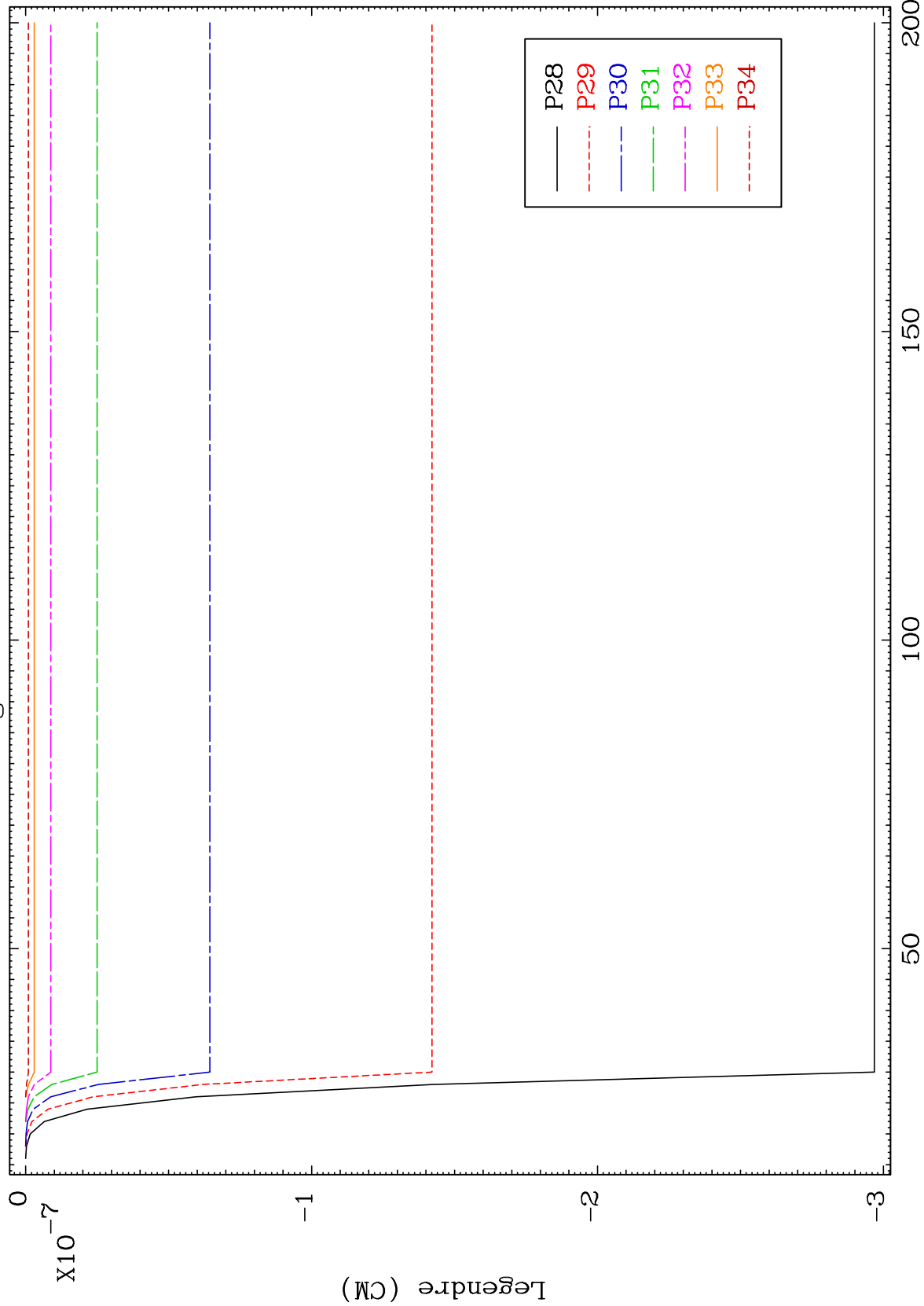


MAT 6443

MT= 69 (n,n') Level

64-Gd-158

Legendre Coefficients



89

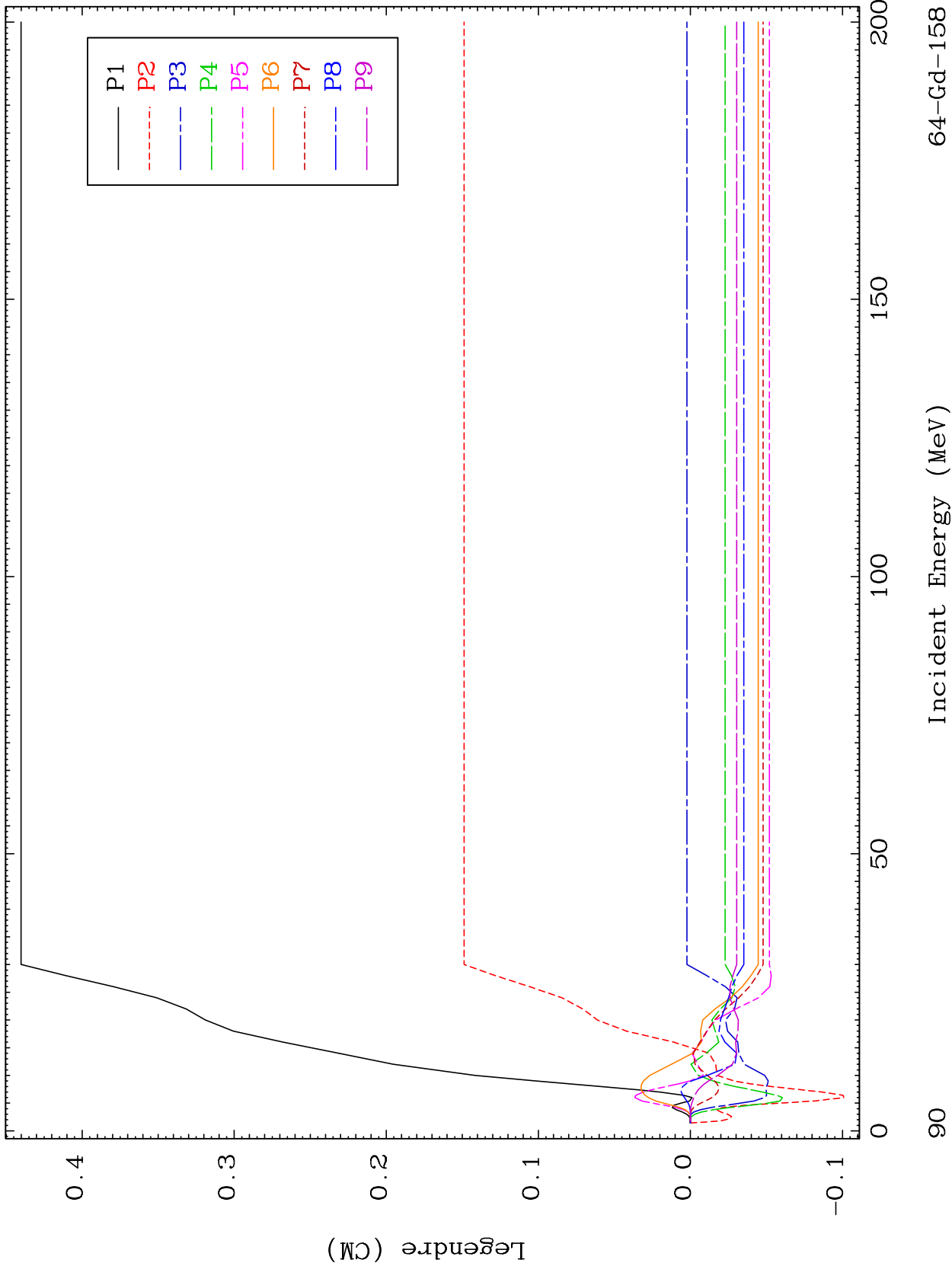
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158

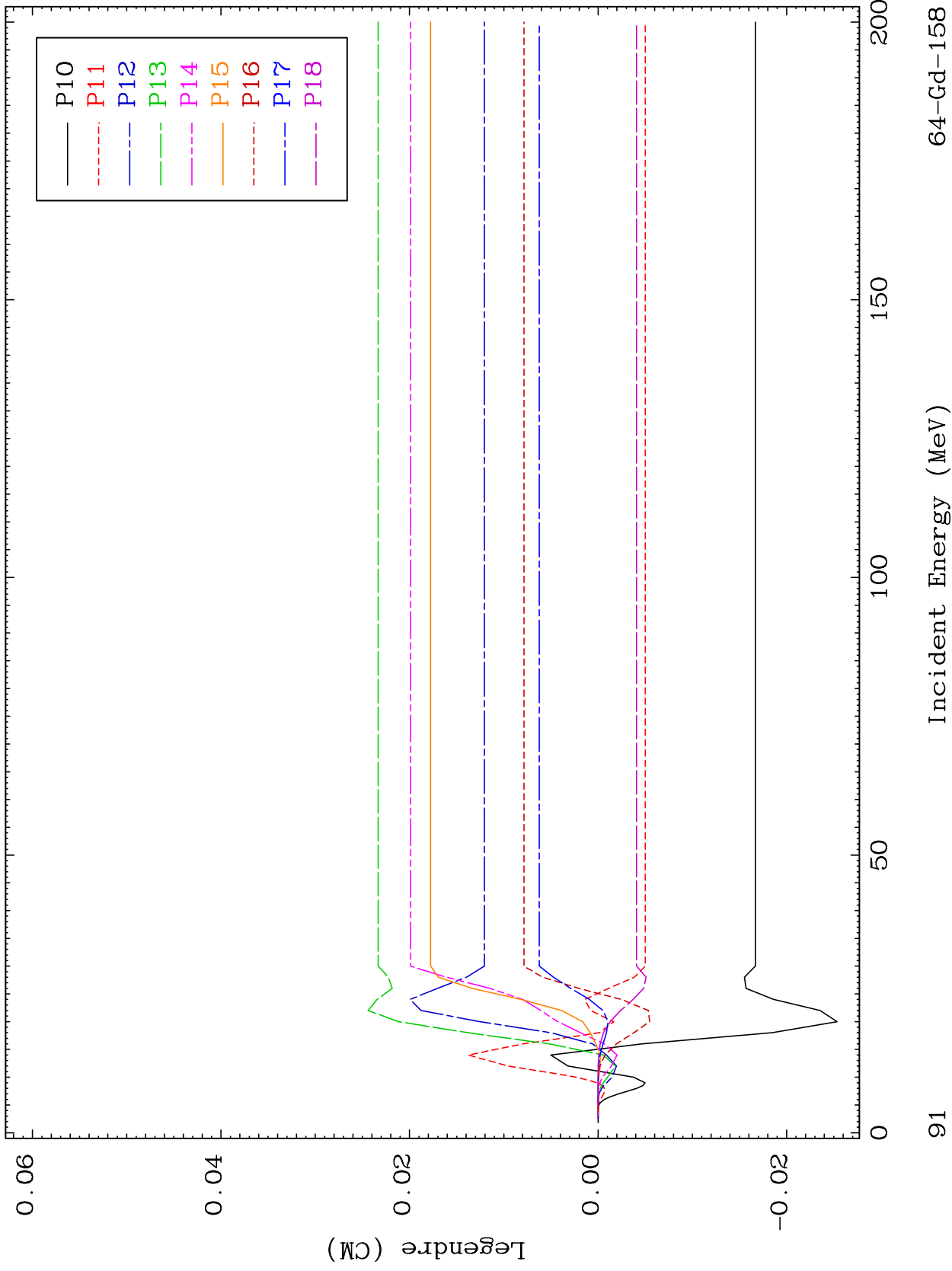


64-Gd-158

MAT 6443

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

64-Gd-158



64-Gd-158

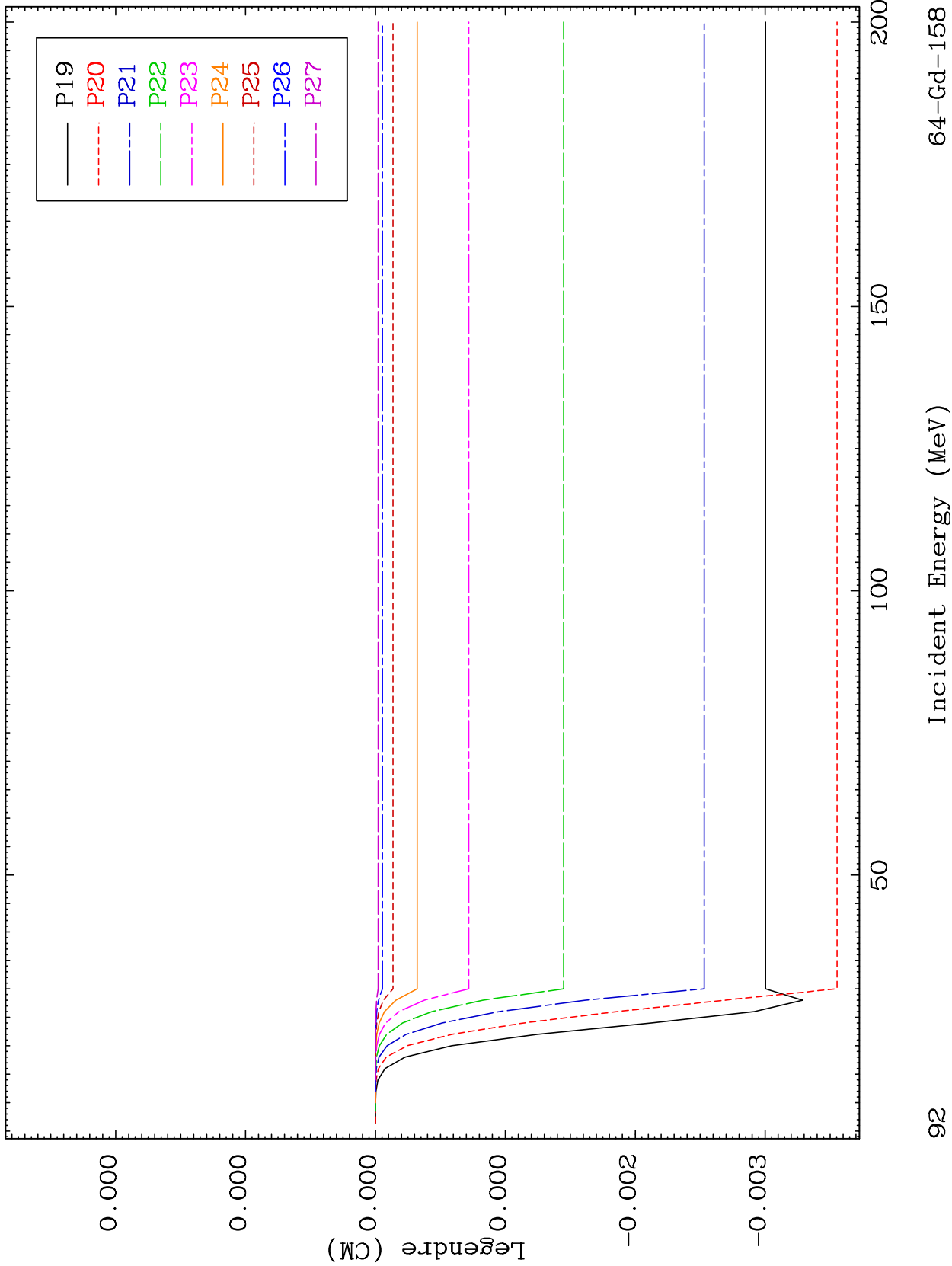
Incident Energy (MeV)

91

MAT 6443

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

64-Gd-158



92

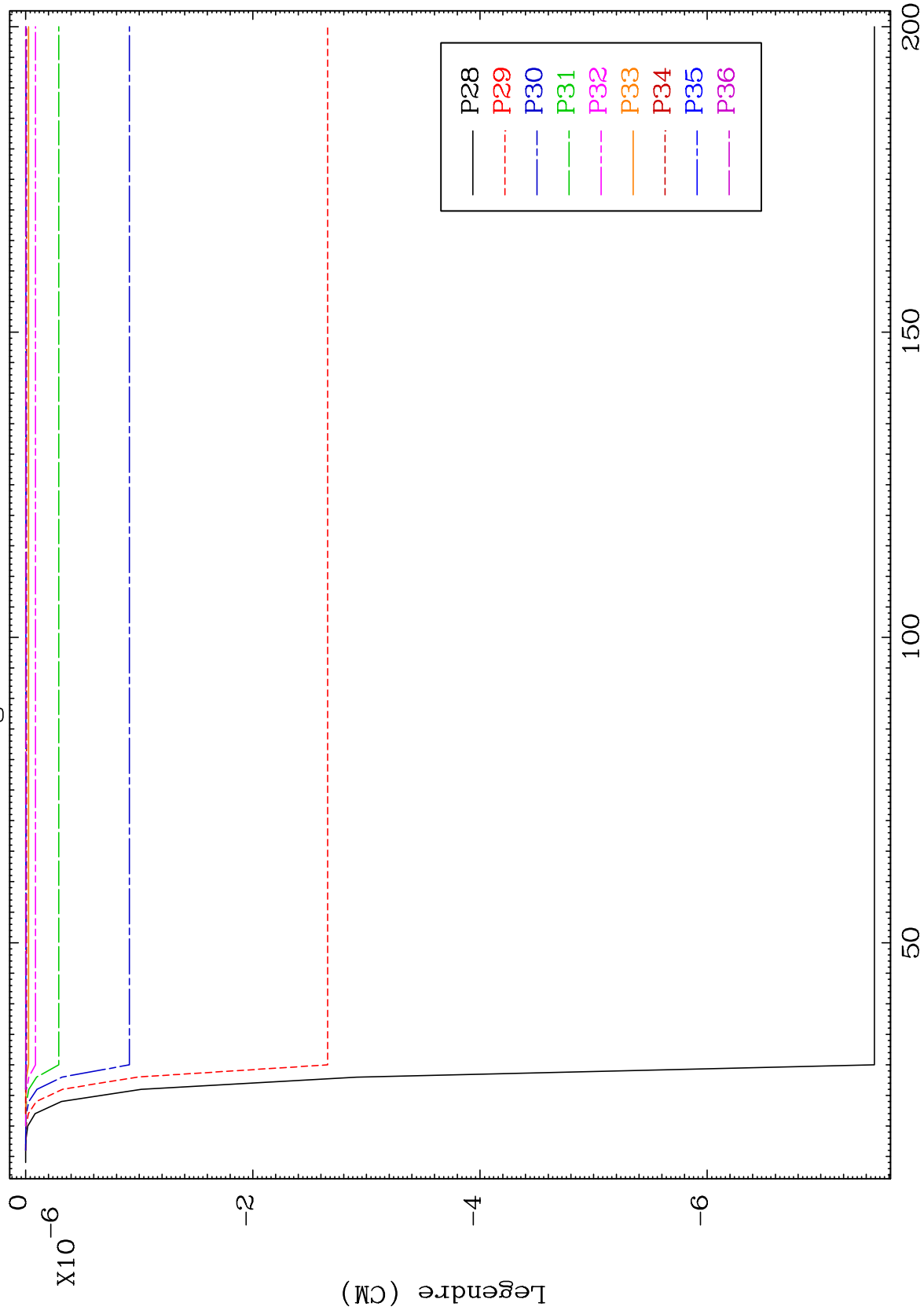
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



93

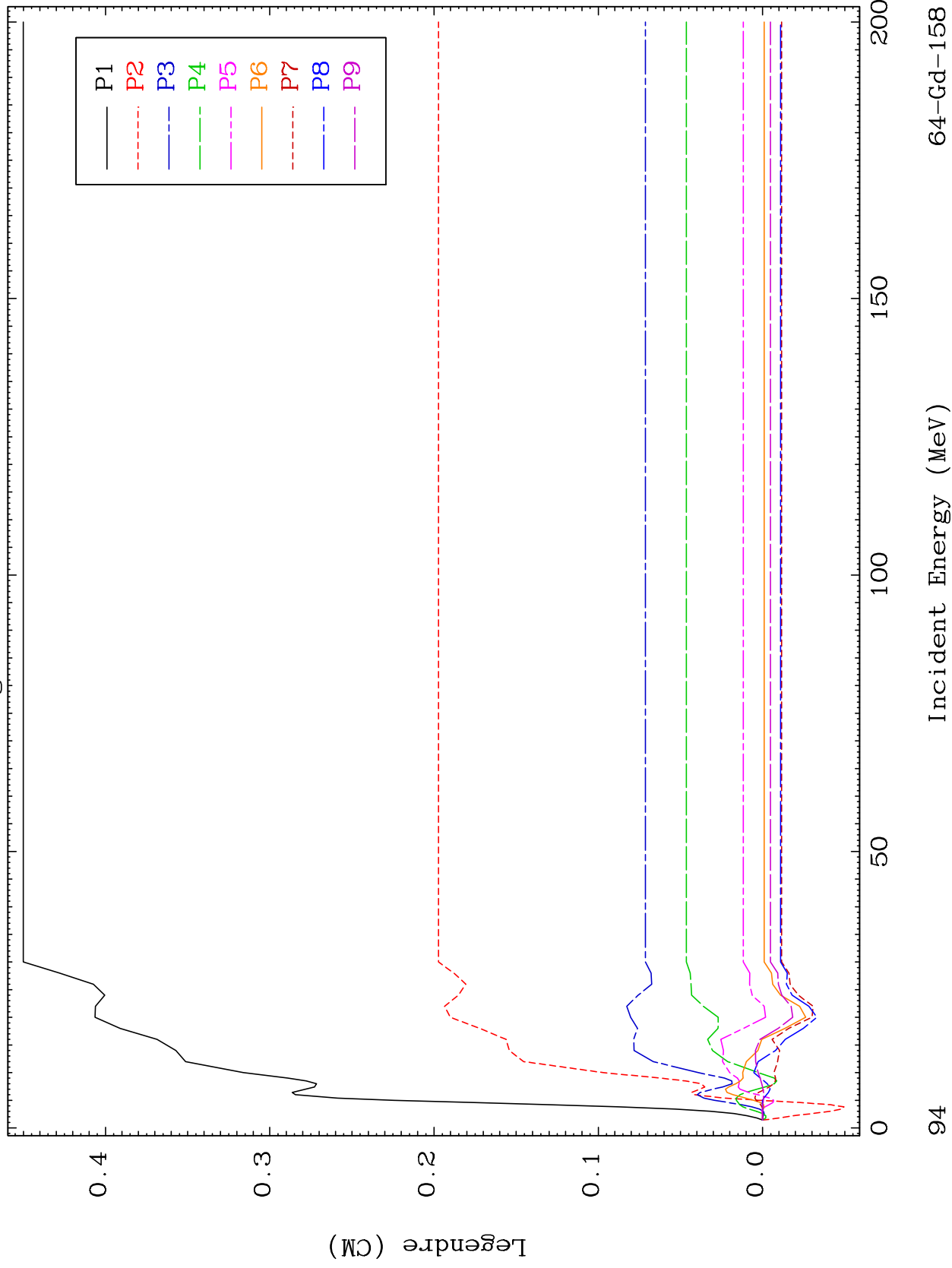
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



64-Gd-158

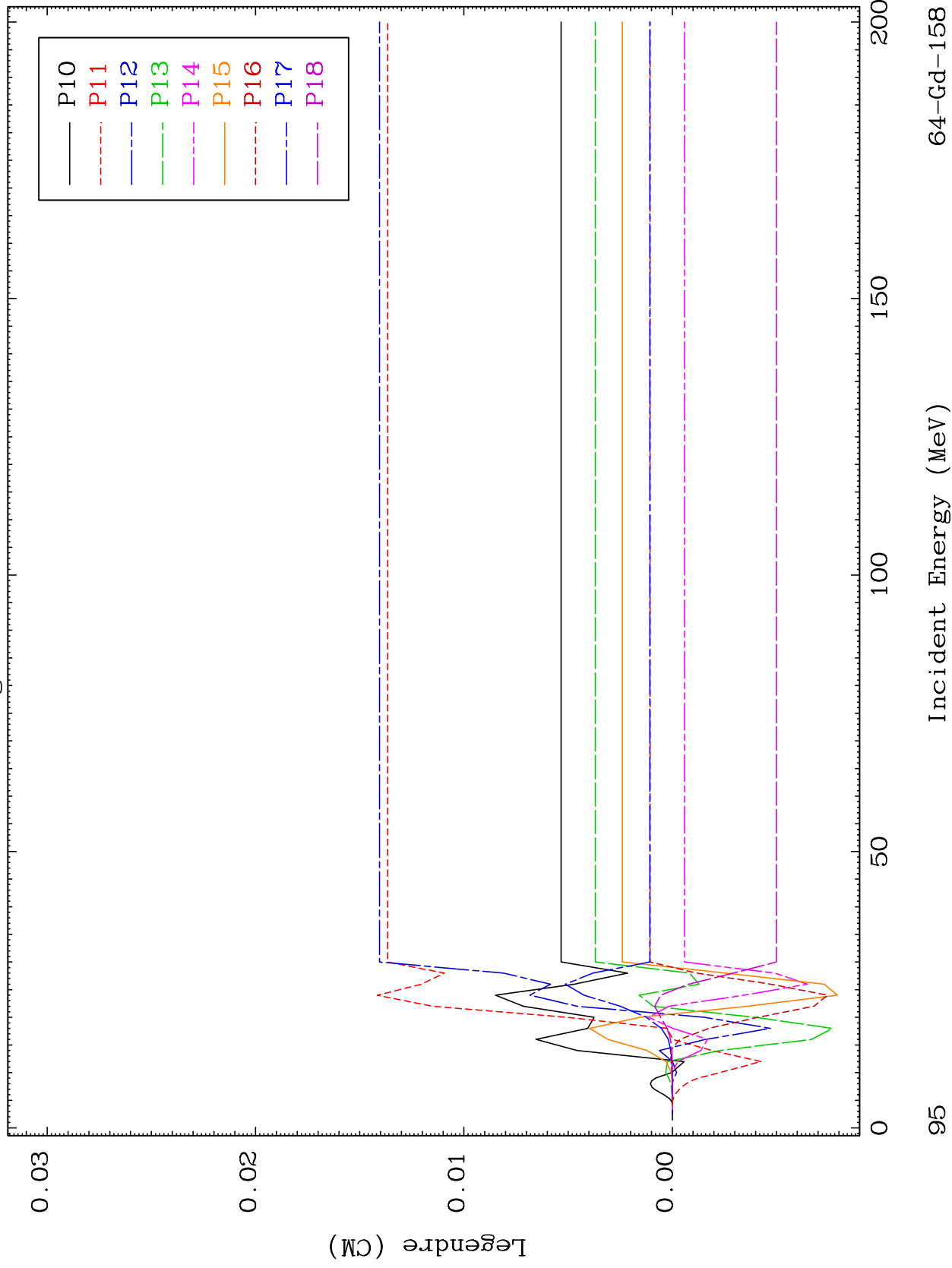
Incident Energy (MeV)

94

MAT 6443

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

64-Gd-158

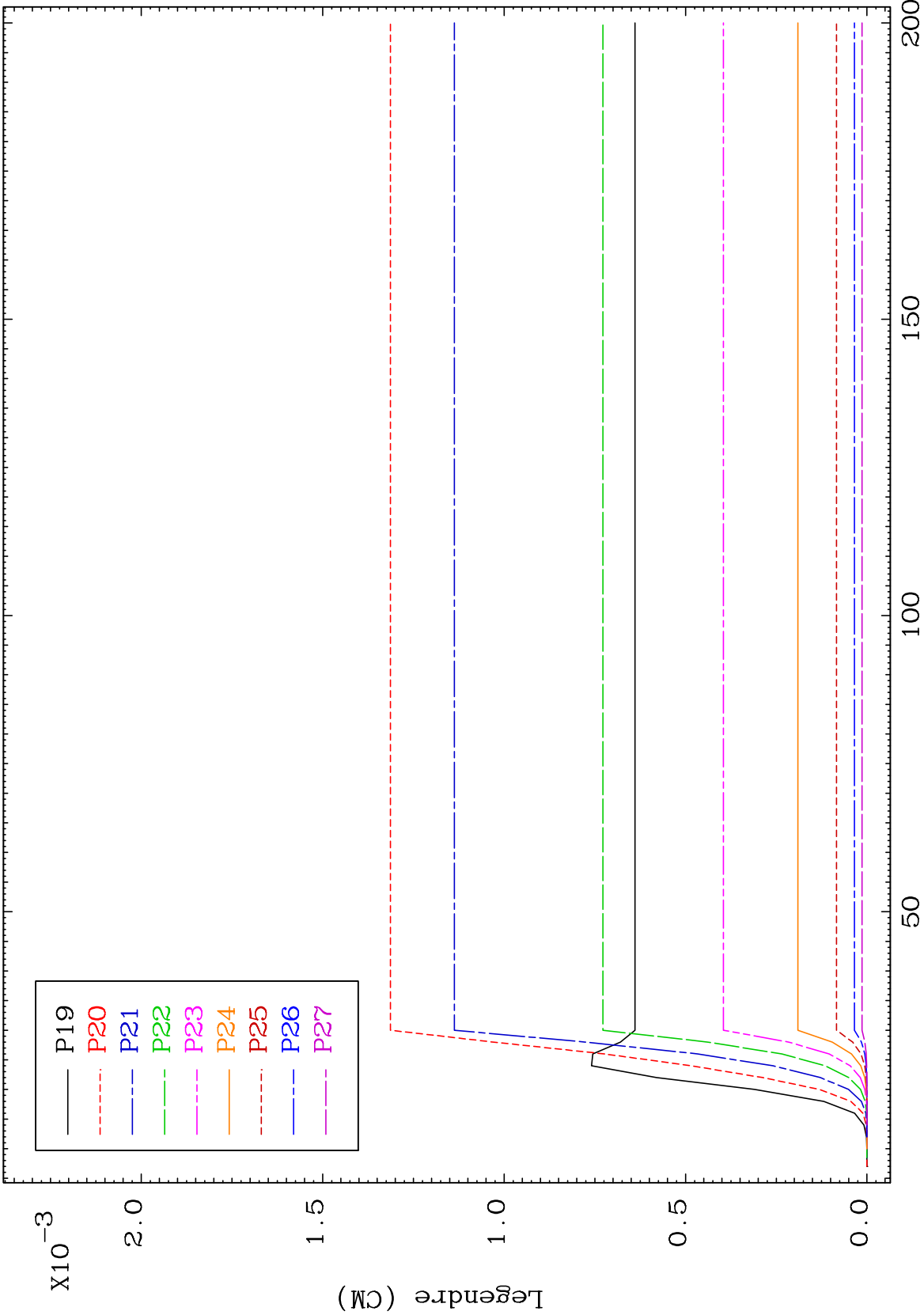


64-Gd-158

Incident Energy (MeV)

95

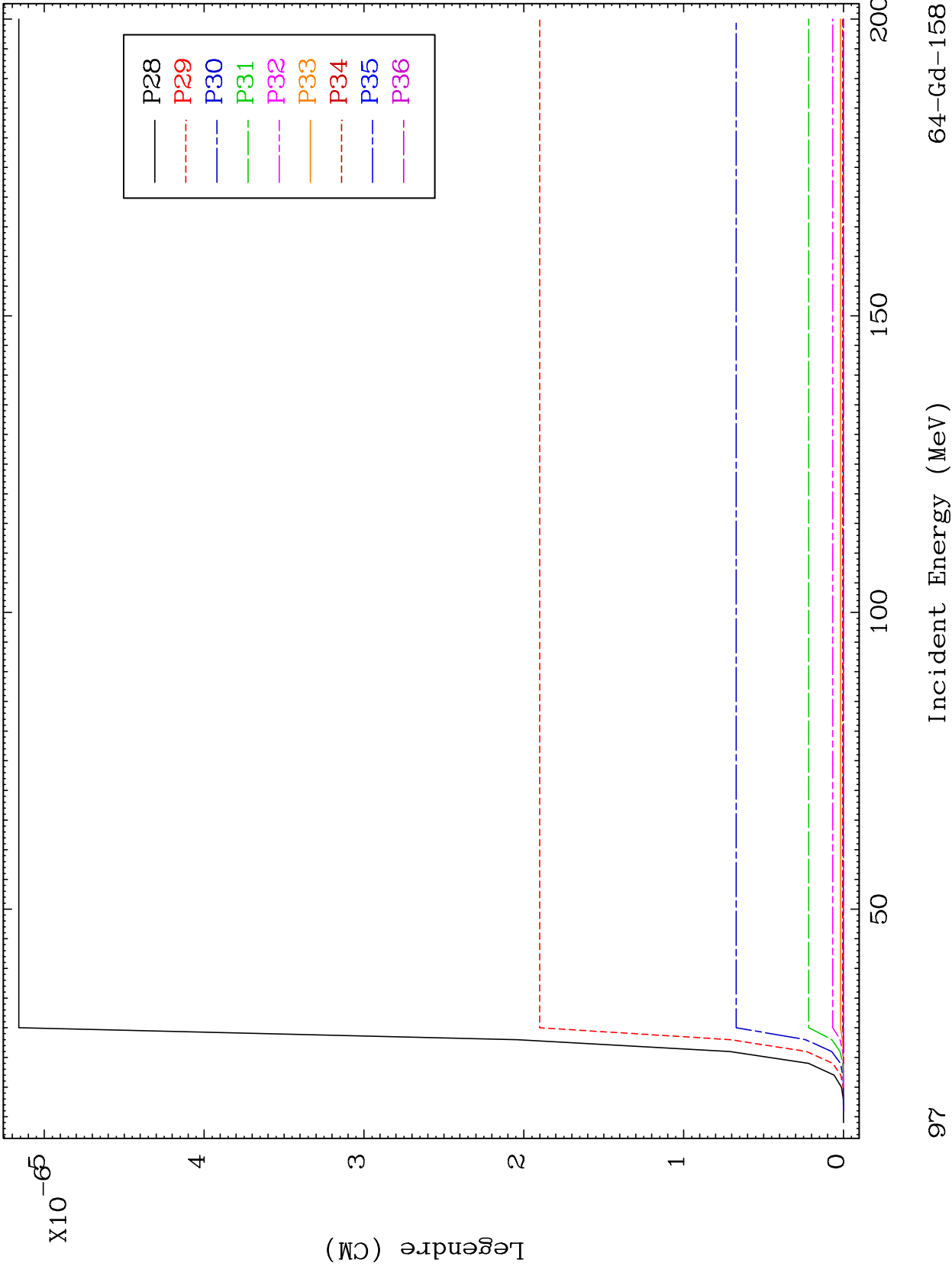




MAT 6443

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

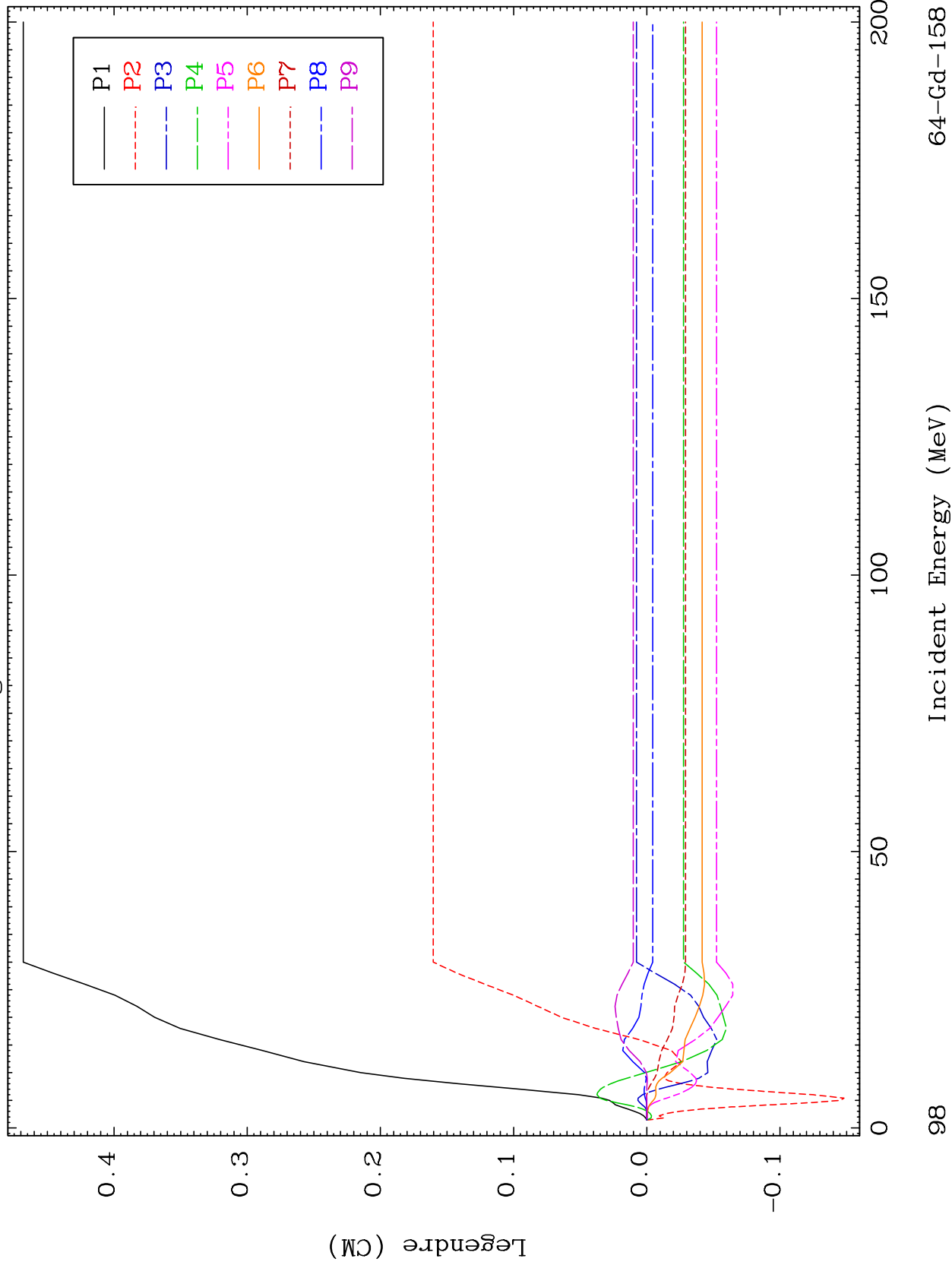
64-Gd-158



MAT 6443

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

64-Gd-158



64-Gd-158

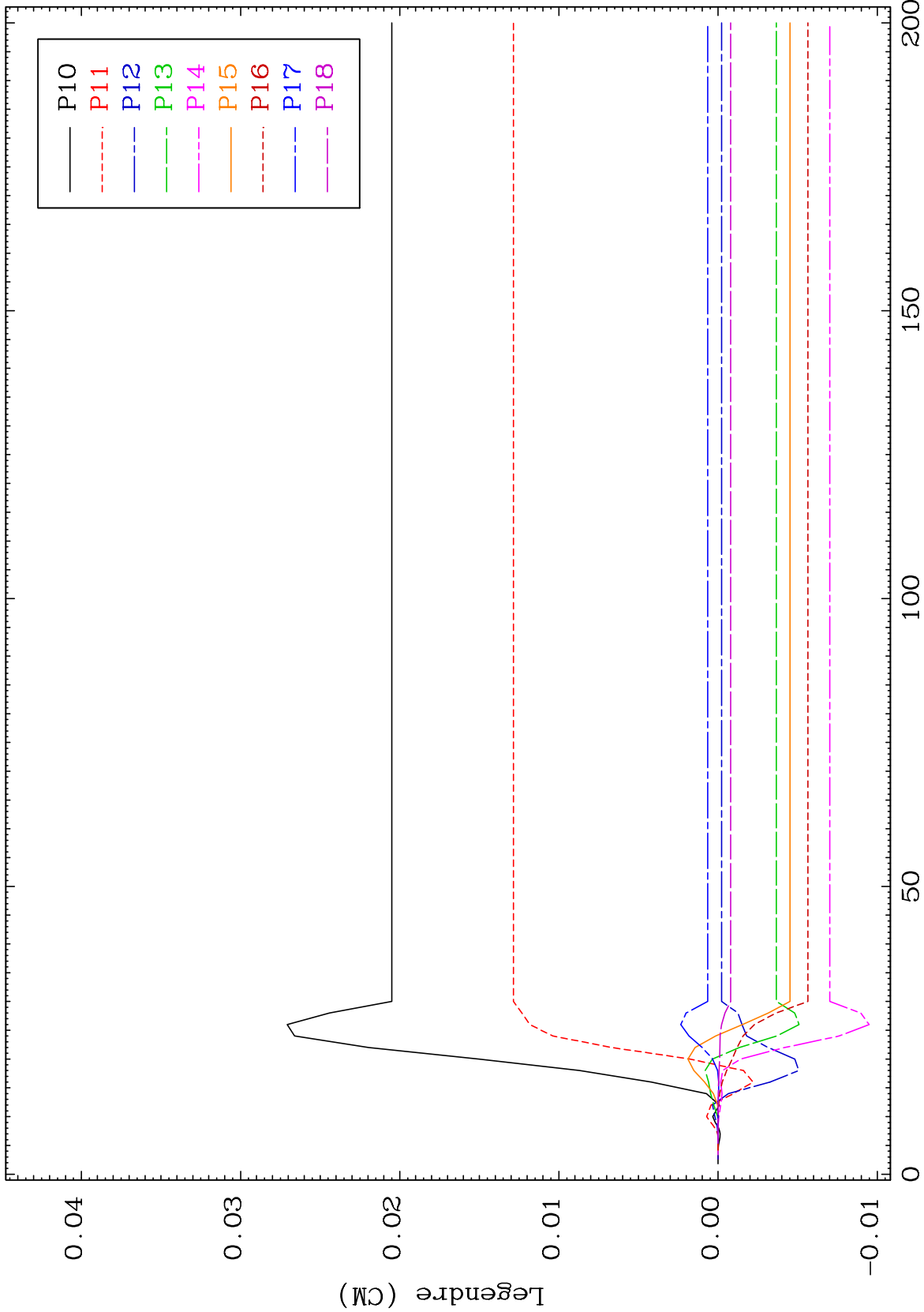
Incident Energy (MeV)

98

MAT 6443

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

64-Gd-158



99

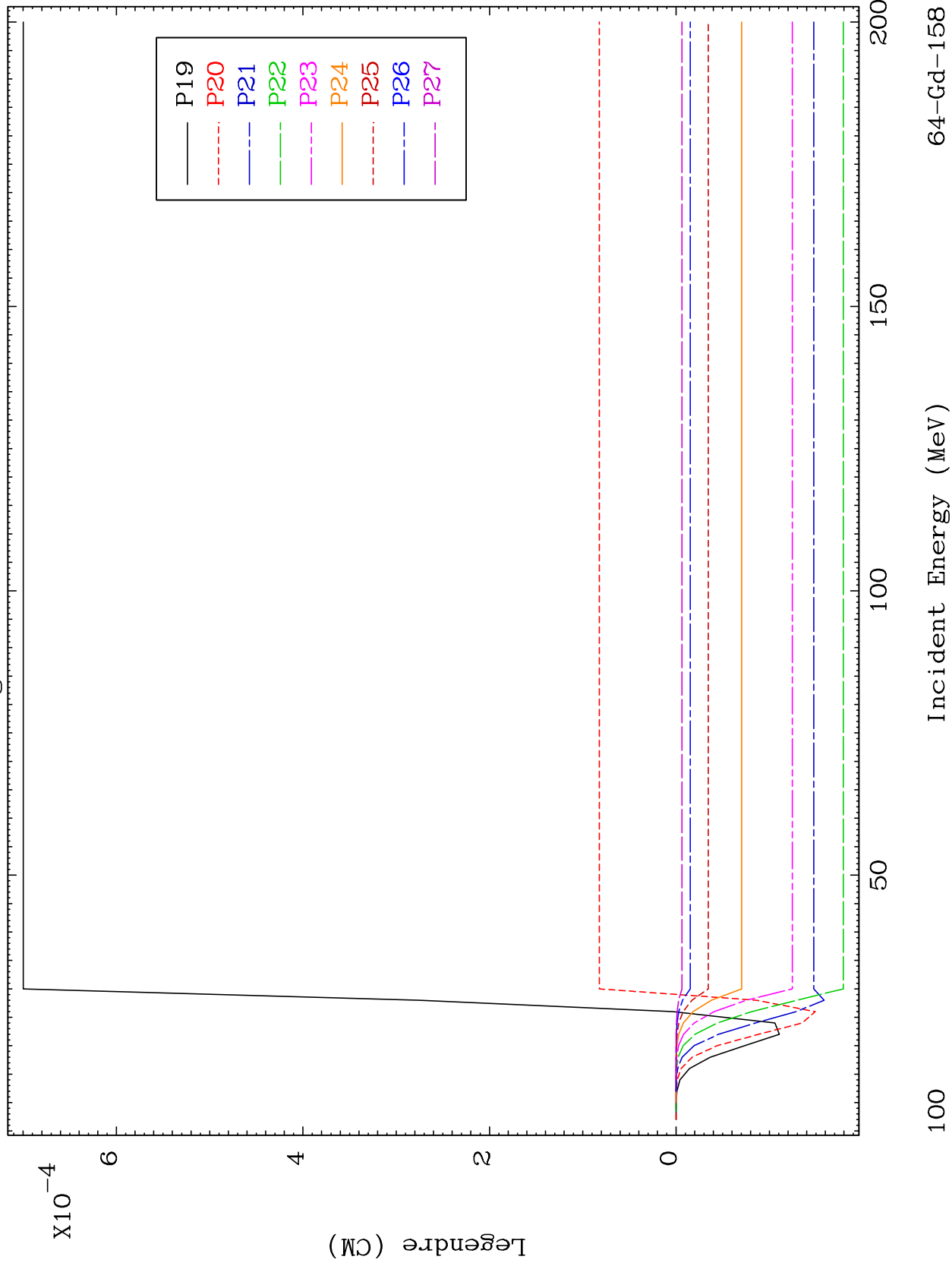
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158

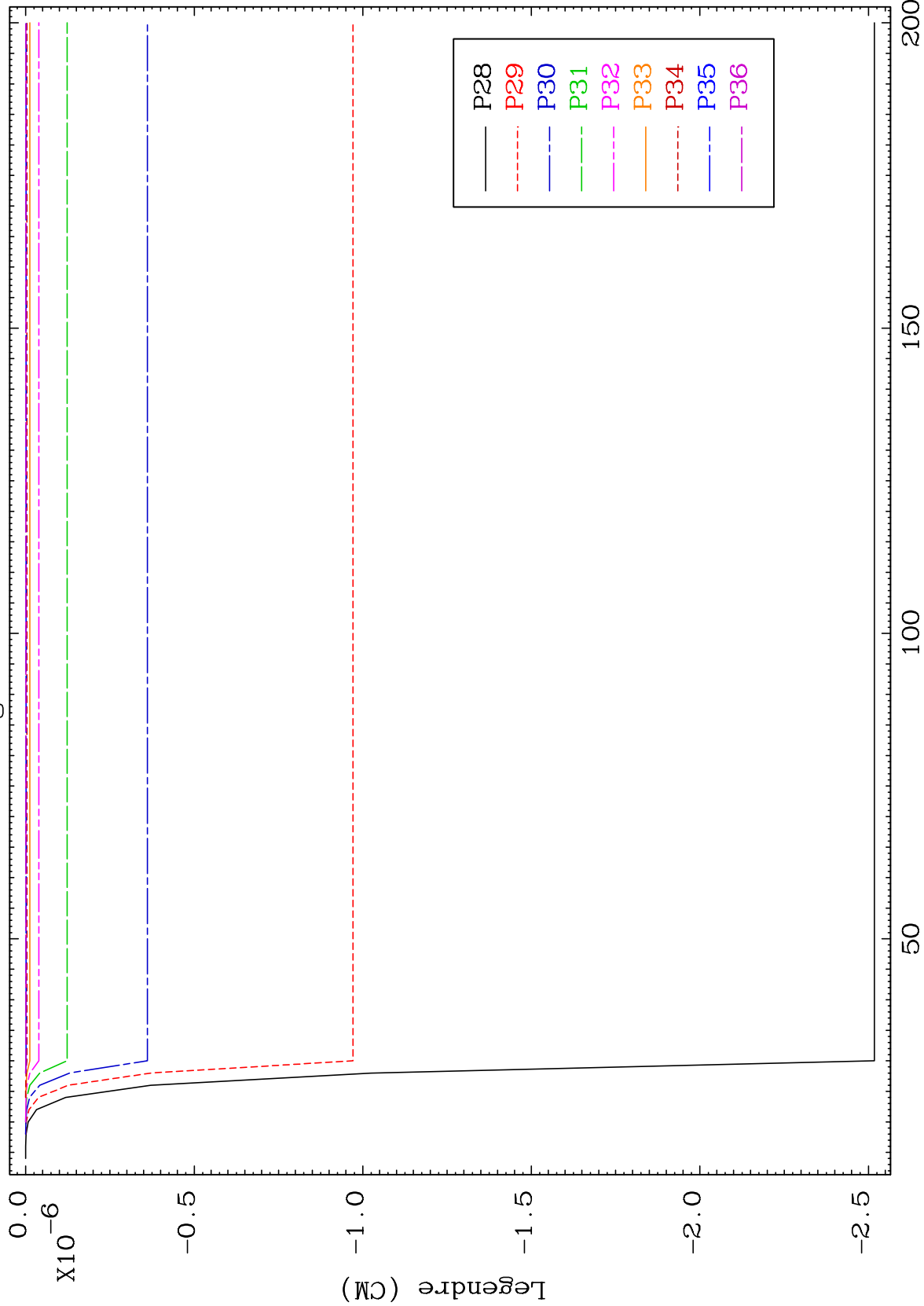


MAT 6443

MT= 72 (n,n') Level

64-Gd-158

Legendre Coefficients



64-Gd-158

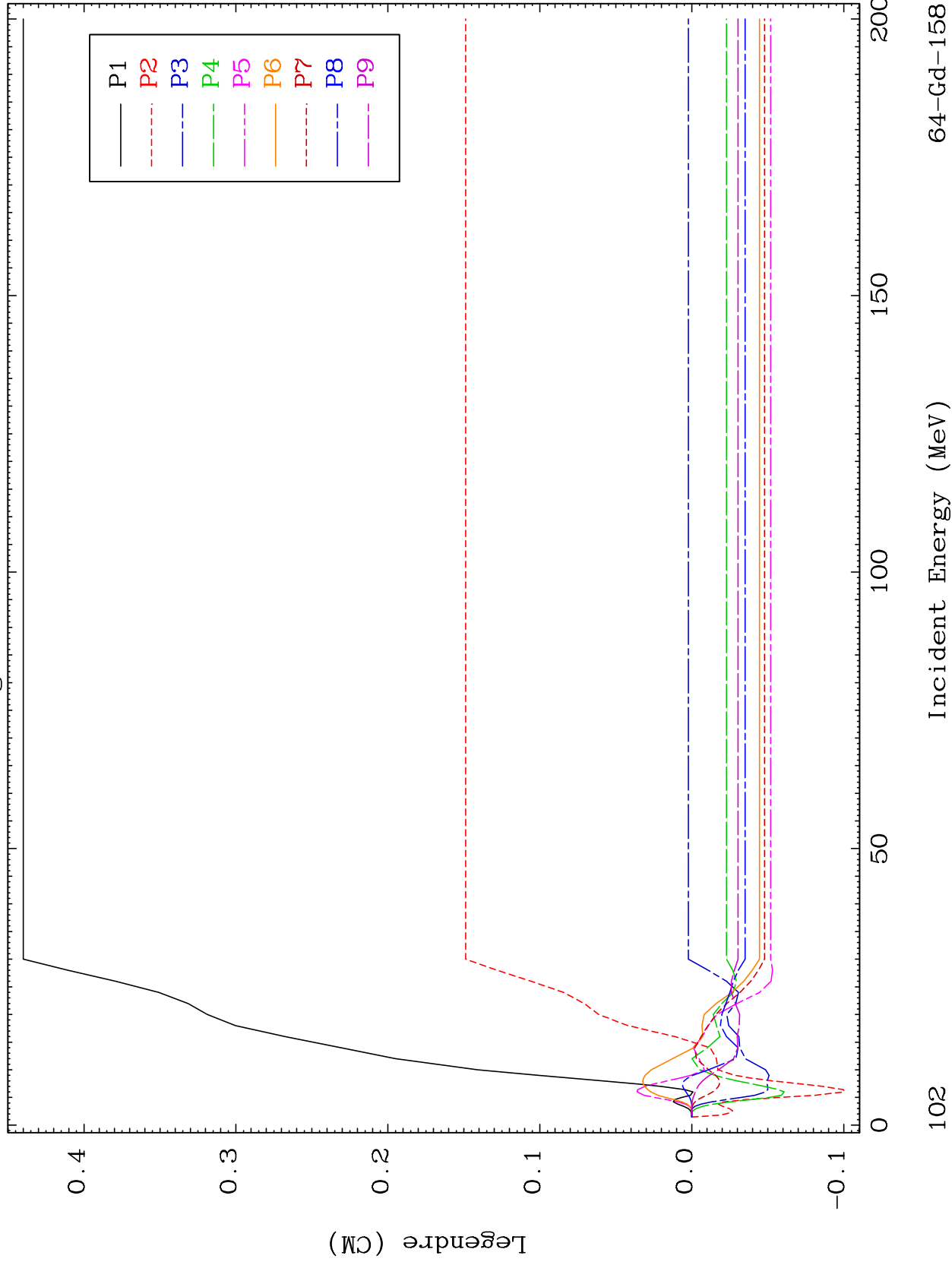
Incident Energy (MeV)

101

MAT 6443

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

64-Gd-158



102

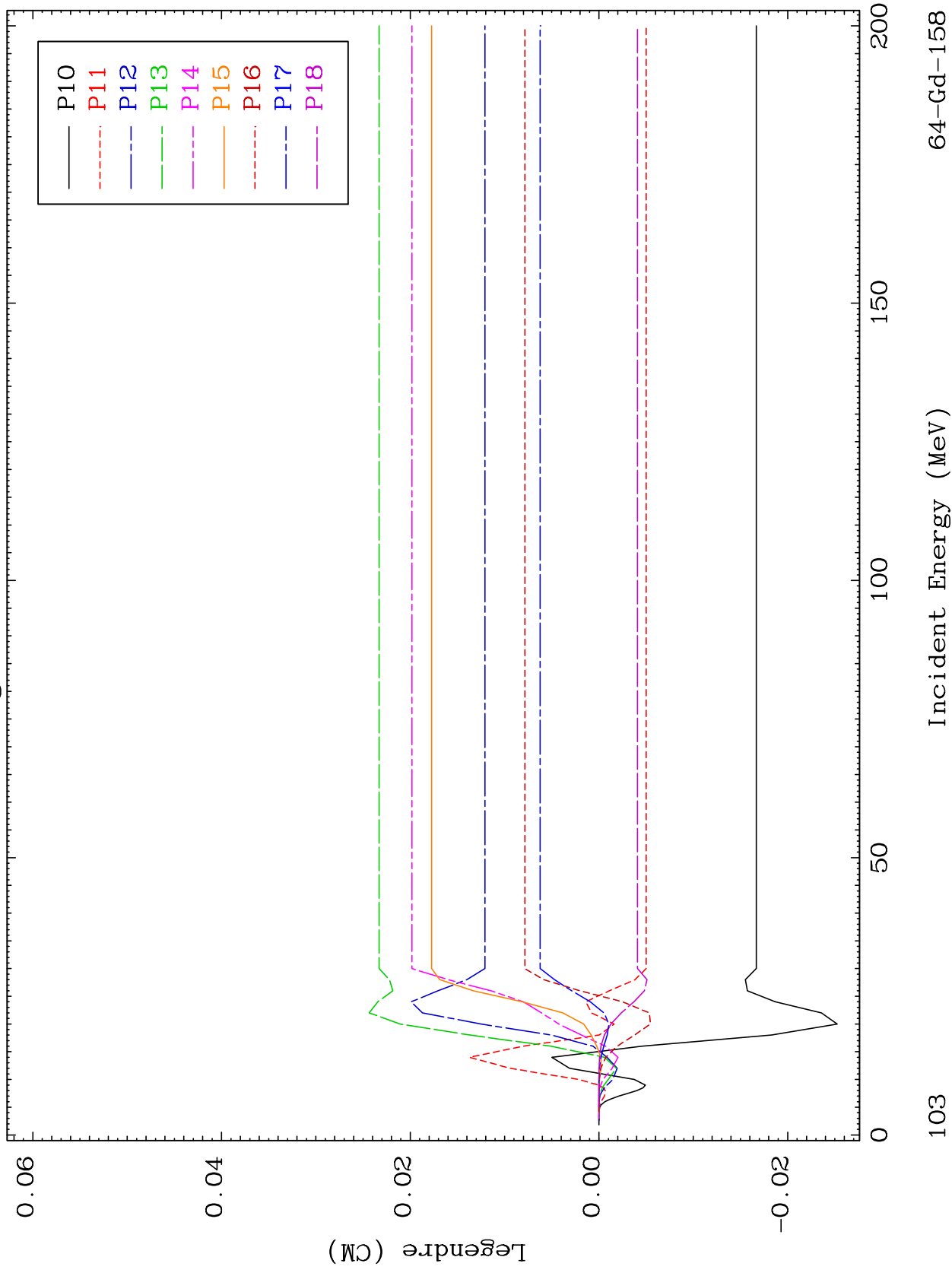
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



64-Gd-158

Incident Energy (MeV)

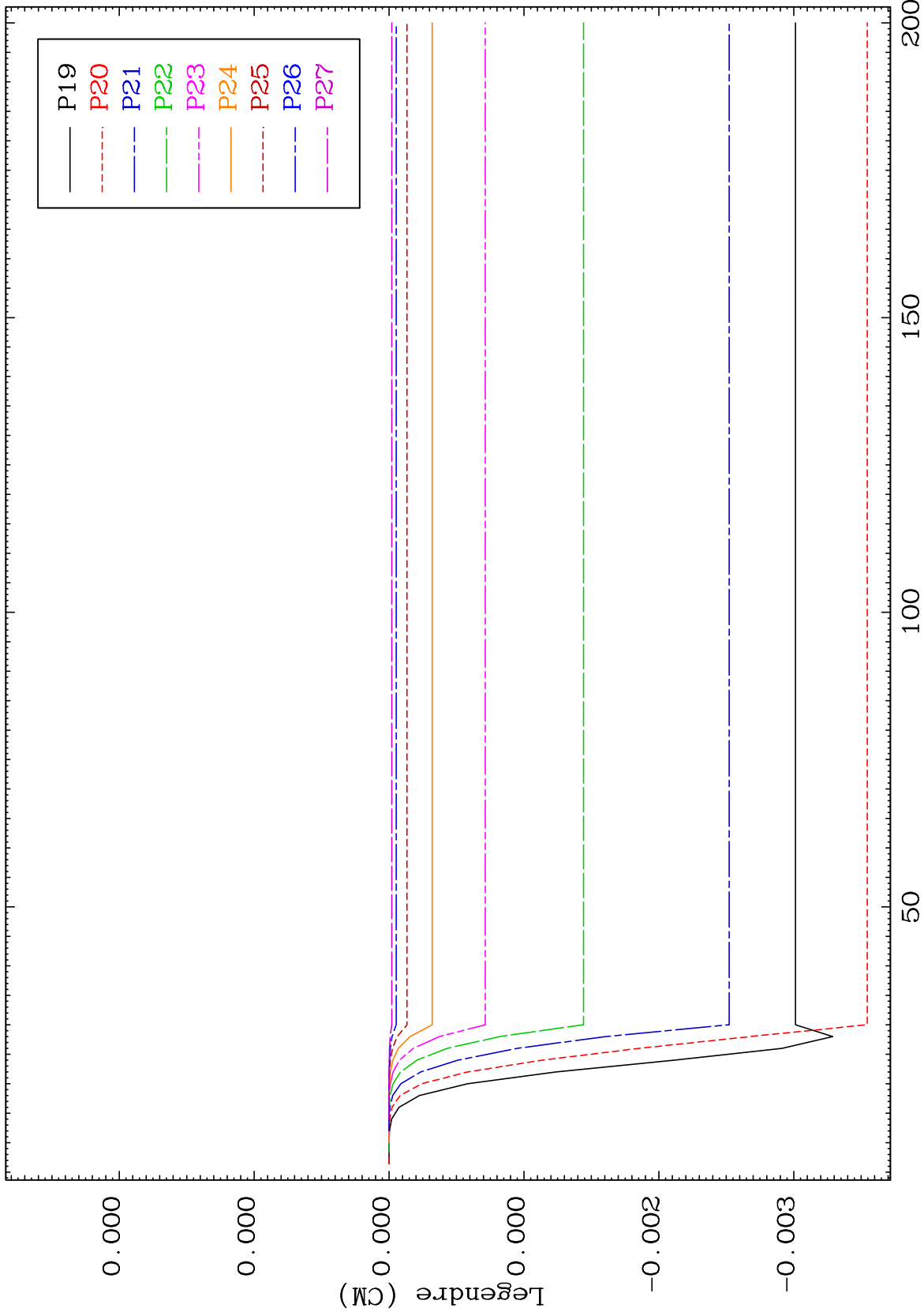
103



MAT 6443

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

64-Gd-158



104

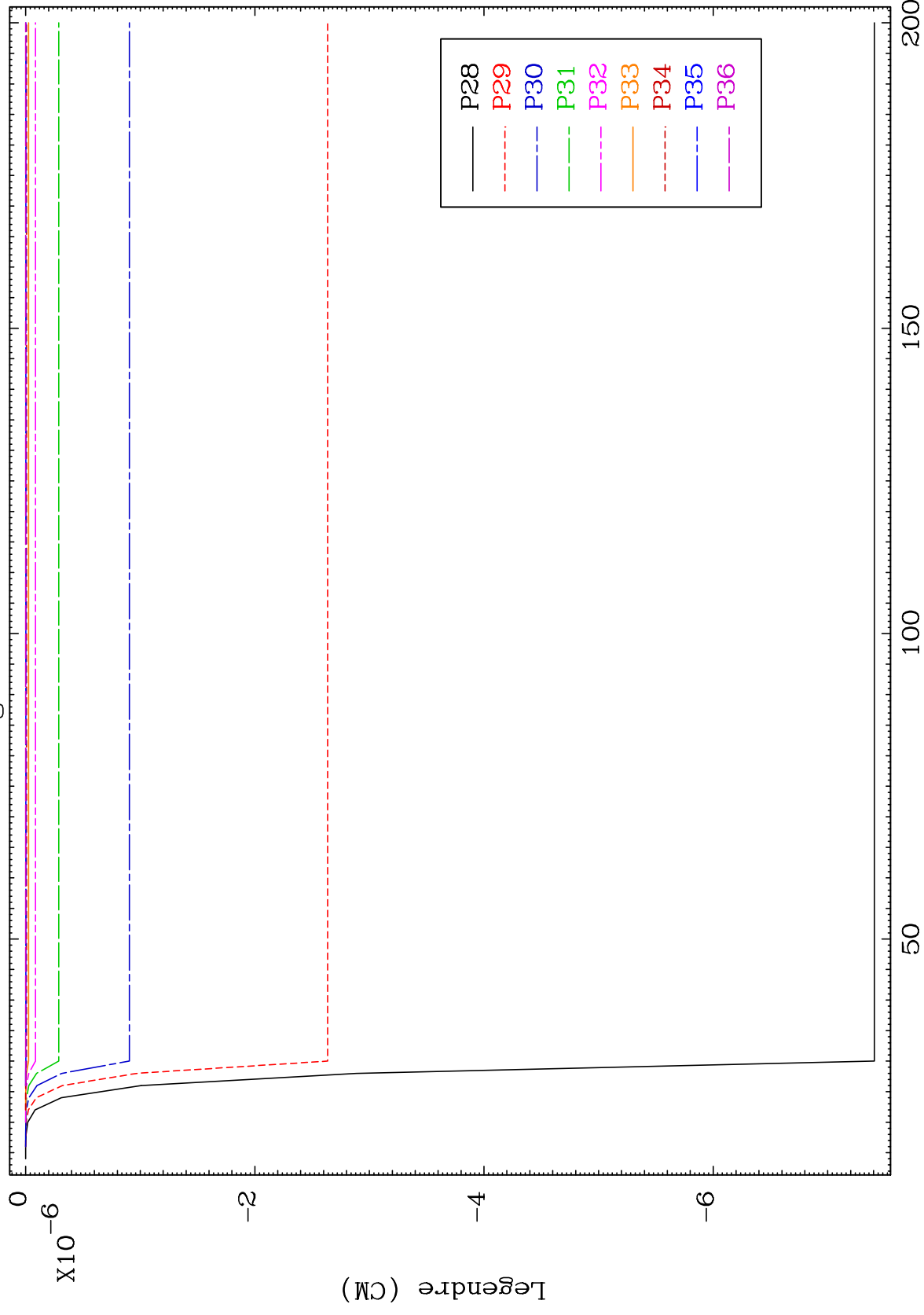
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

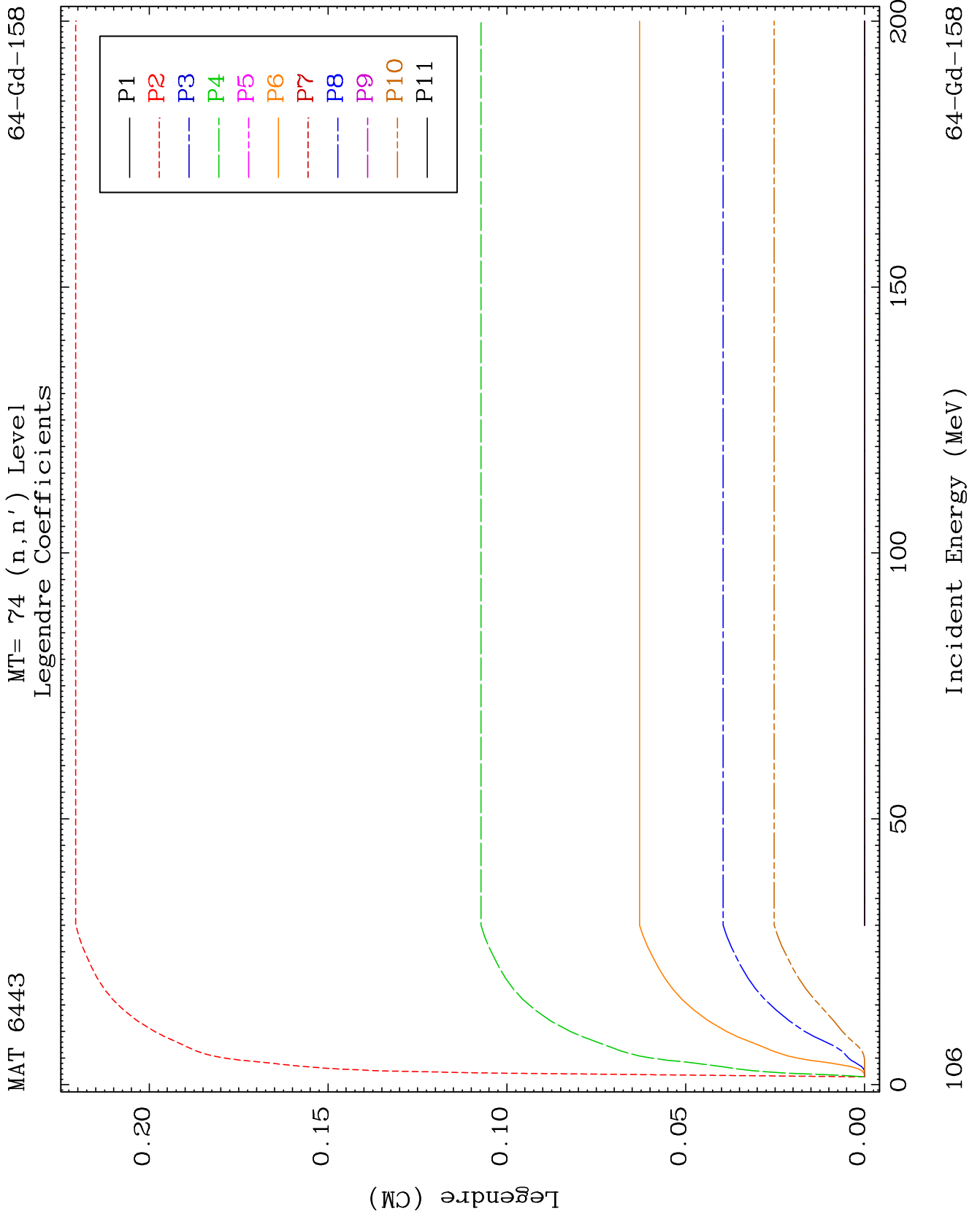
64-Gd-158



105

Incident Energy (MeV)

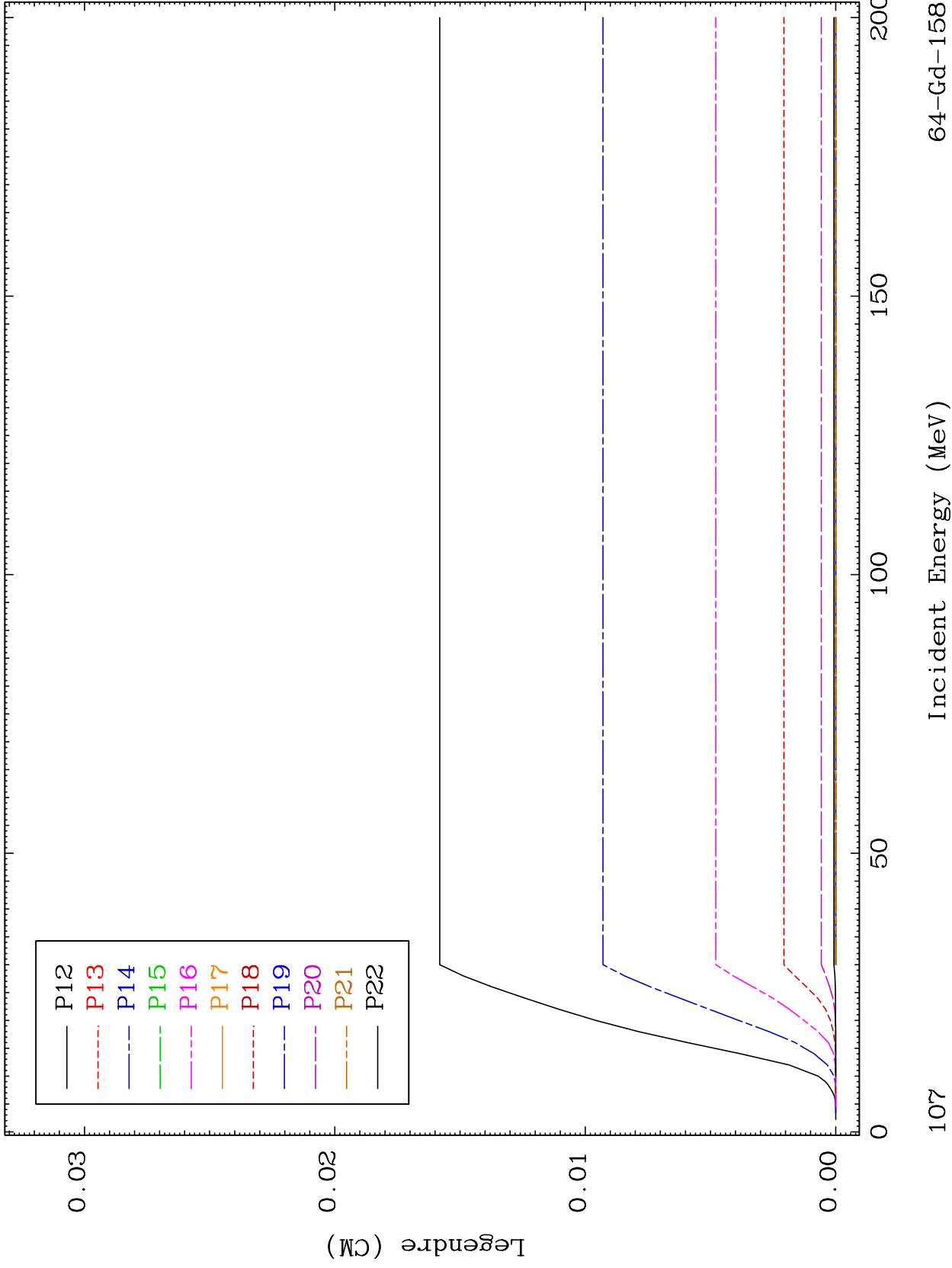
64-Gd-158



MAT 6443

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

64-Gd-158



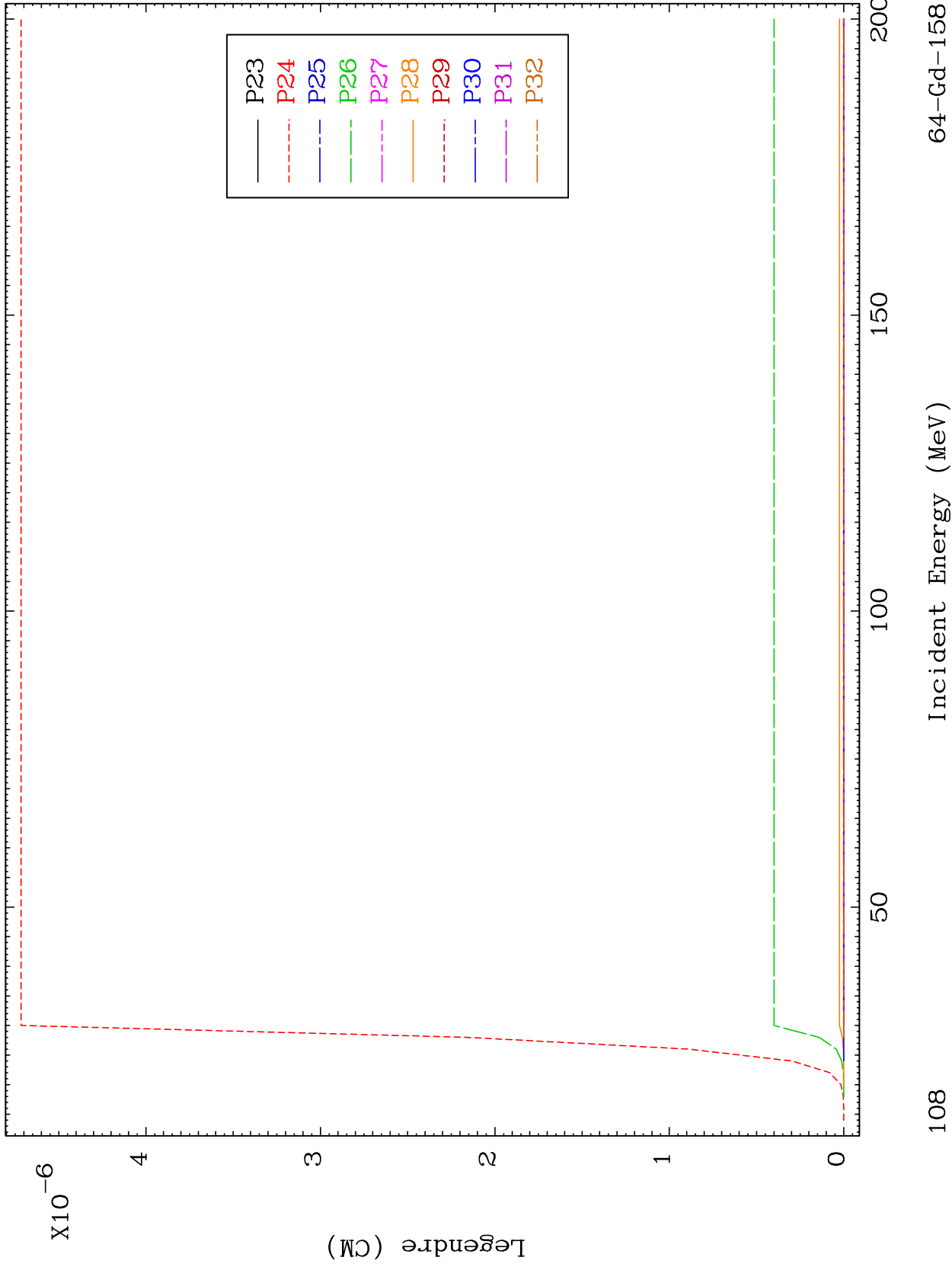
107

64-Gd-158

MAT 6443

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

64-Gd-158



108

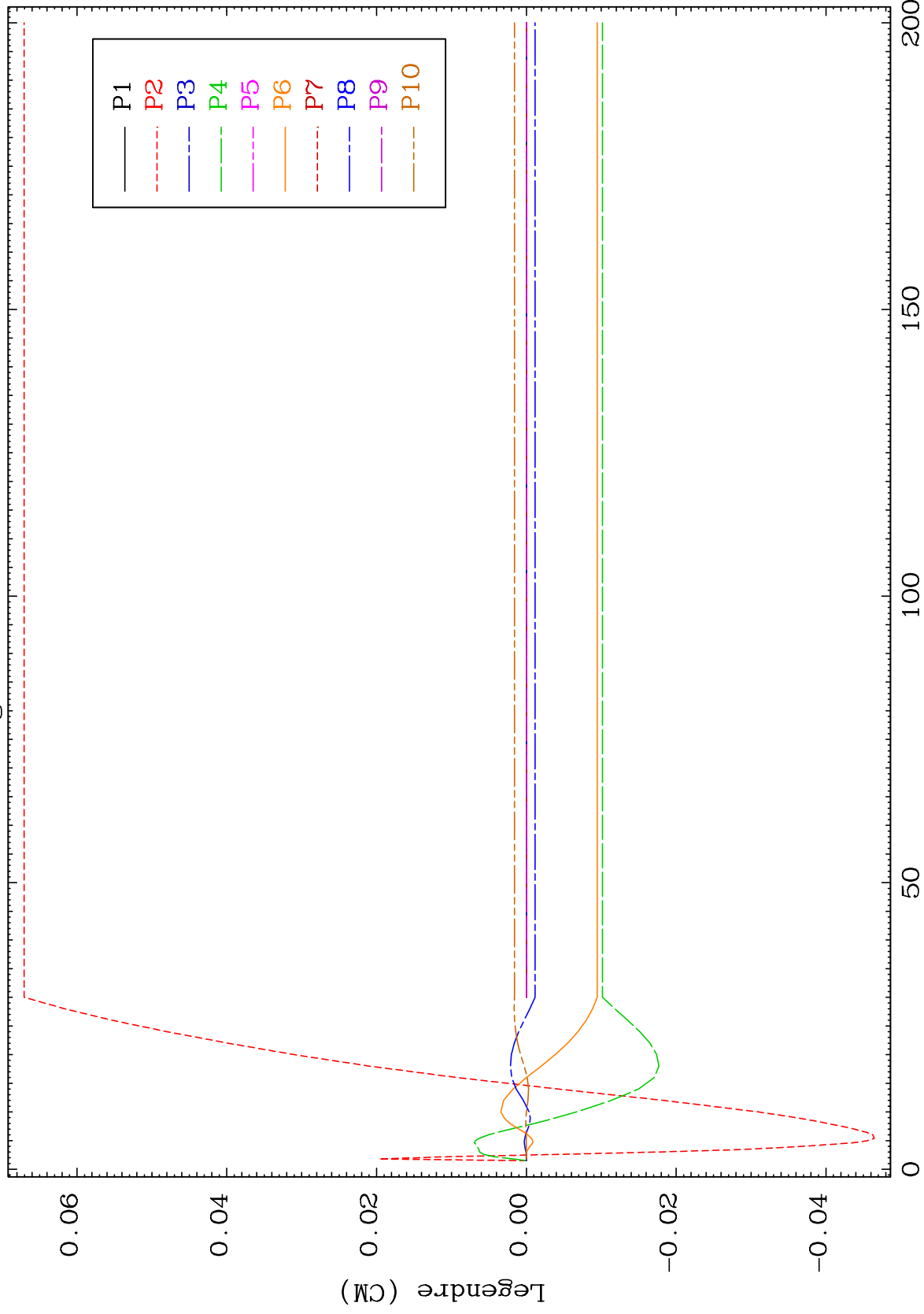
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



64-Gd-158

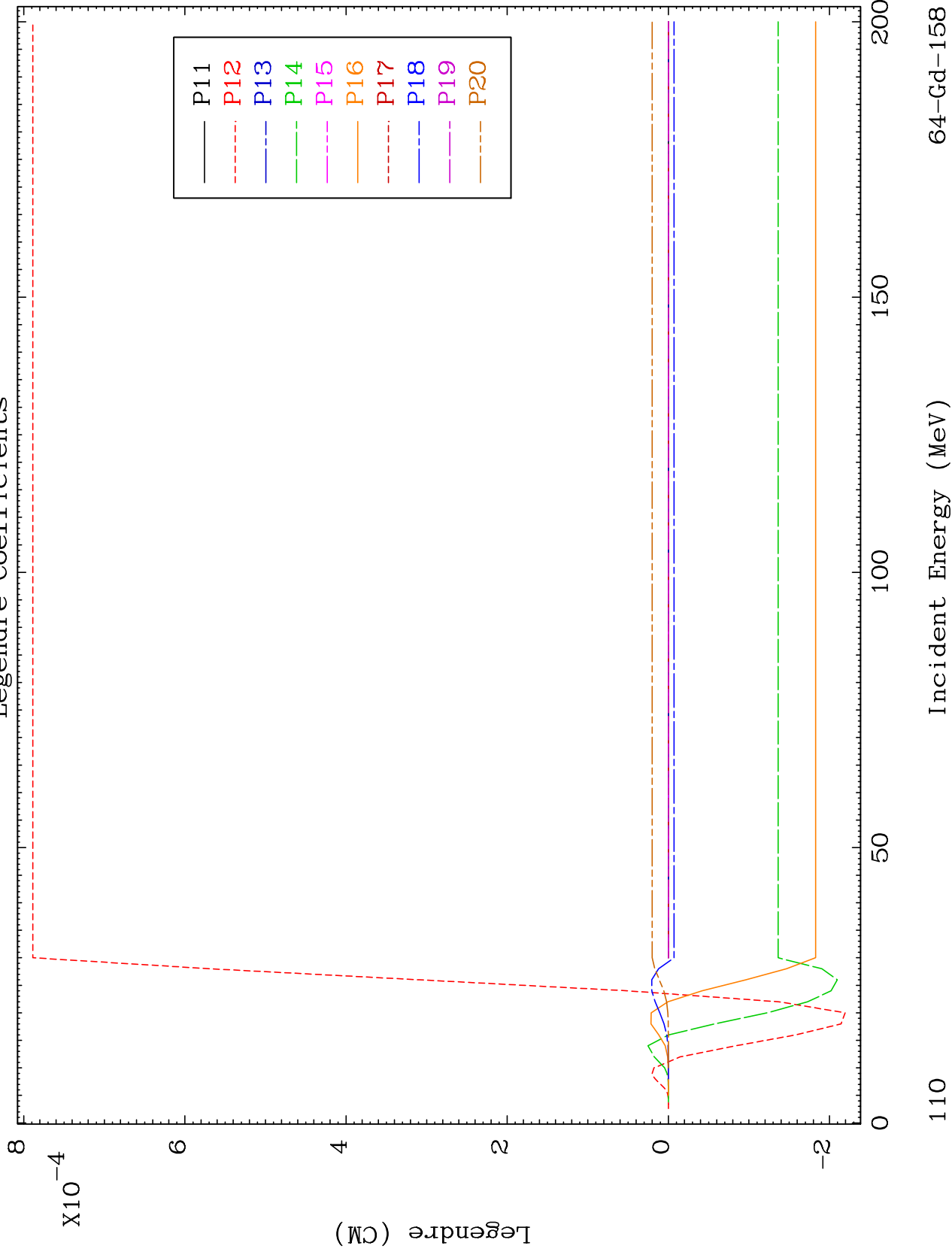
Incident Energy (MeV)

109

MAT 6443

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

64-Gd-158



64-Gd-158

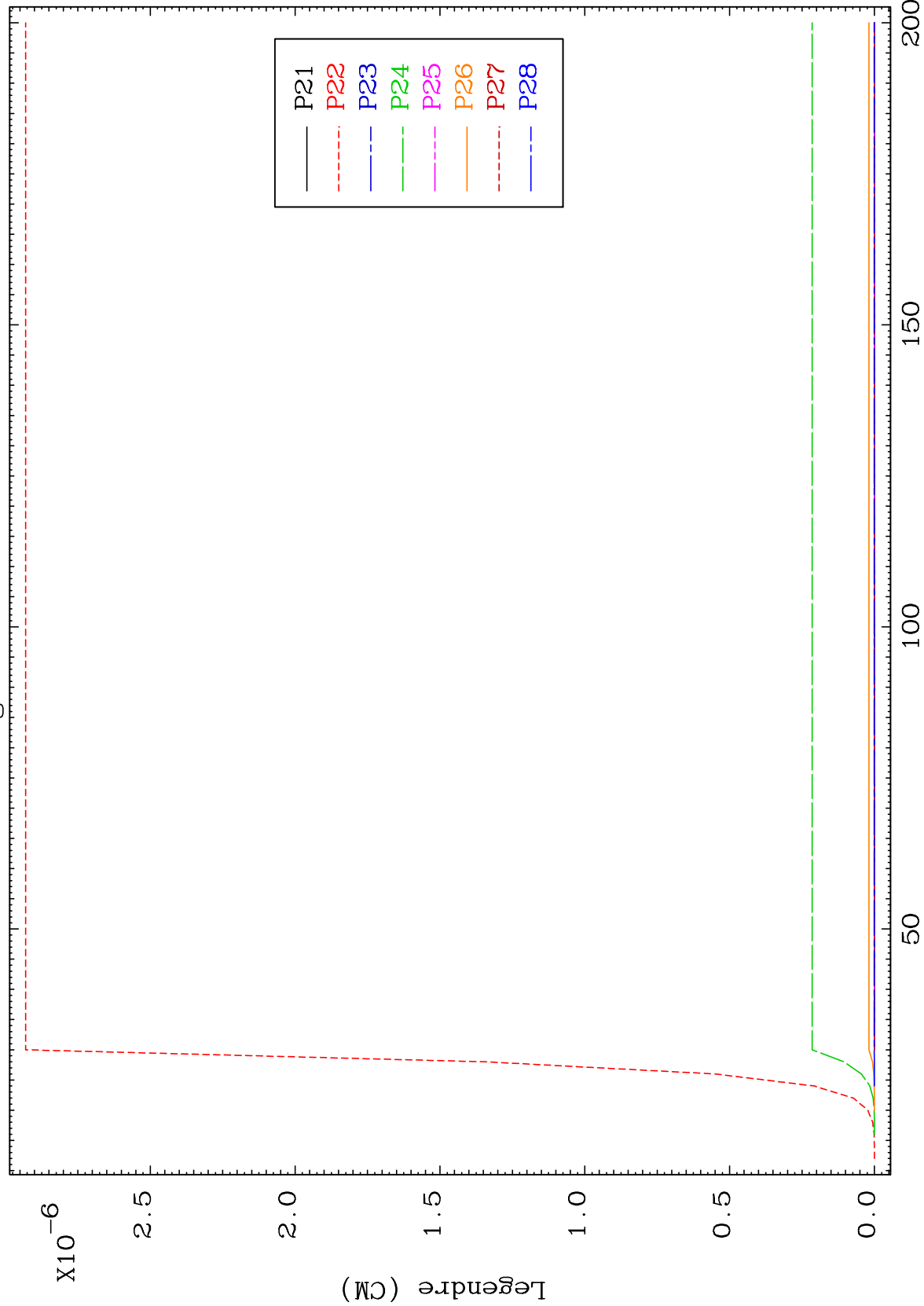
Incident Energy (MeV)

110

MAT 6443

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

64-Gd-158



111

Incident Energy (MeV)

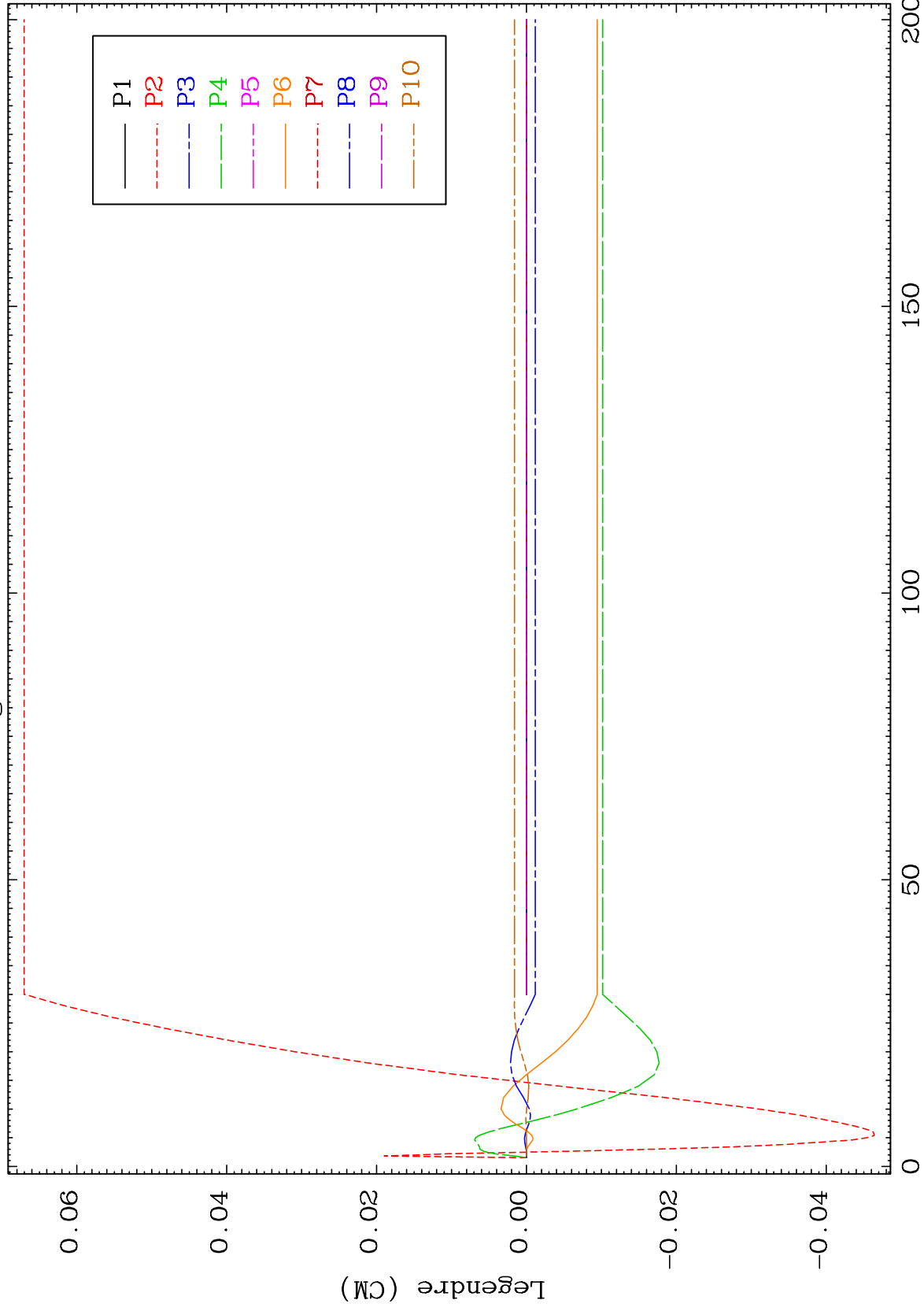
64-Gd-158



MAT 6443

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

64-Gd-158



64-Gd-158

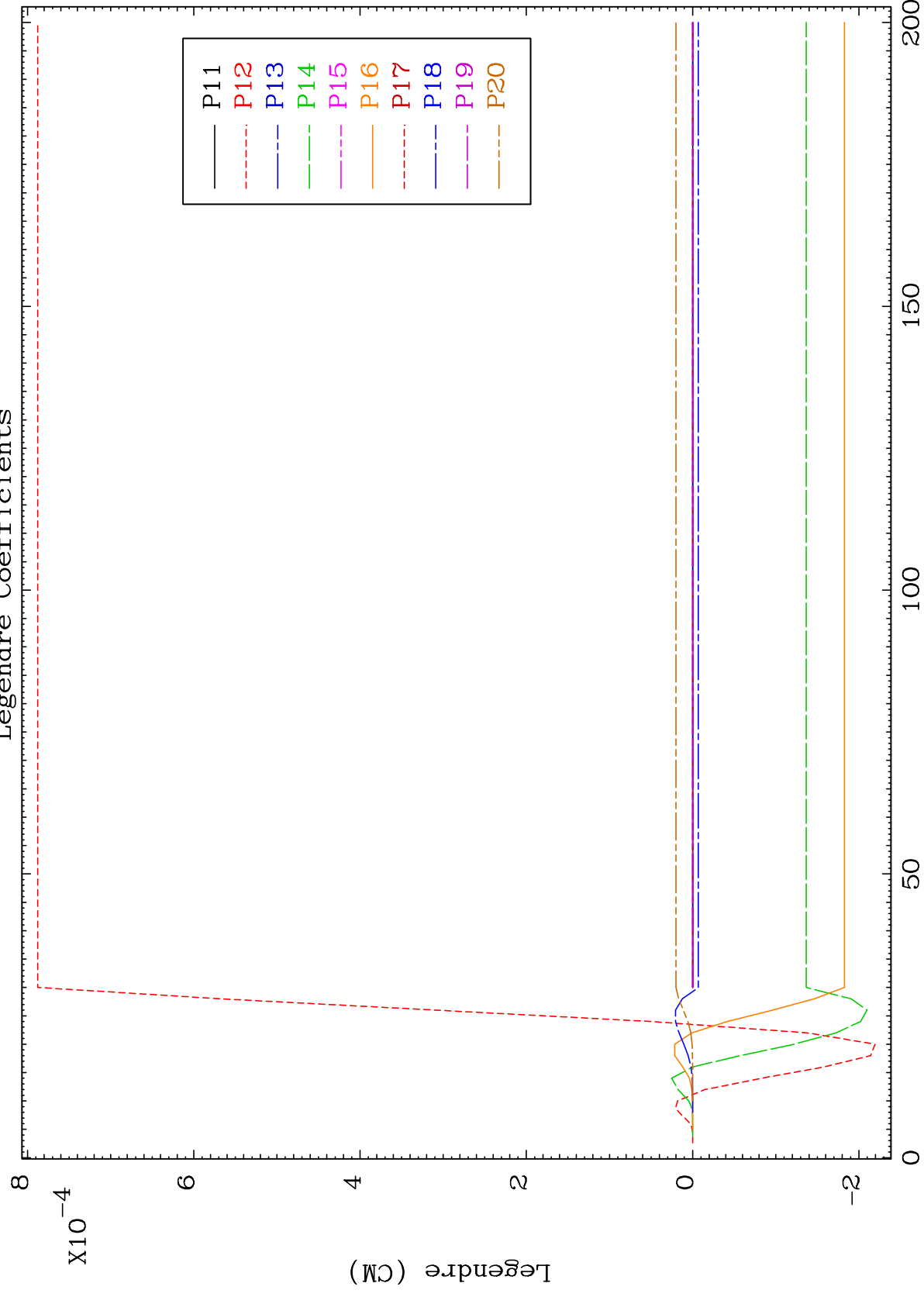
Incident Energy (MeV)

112

MAT 6443

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

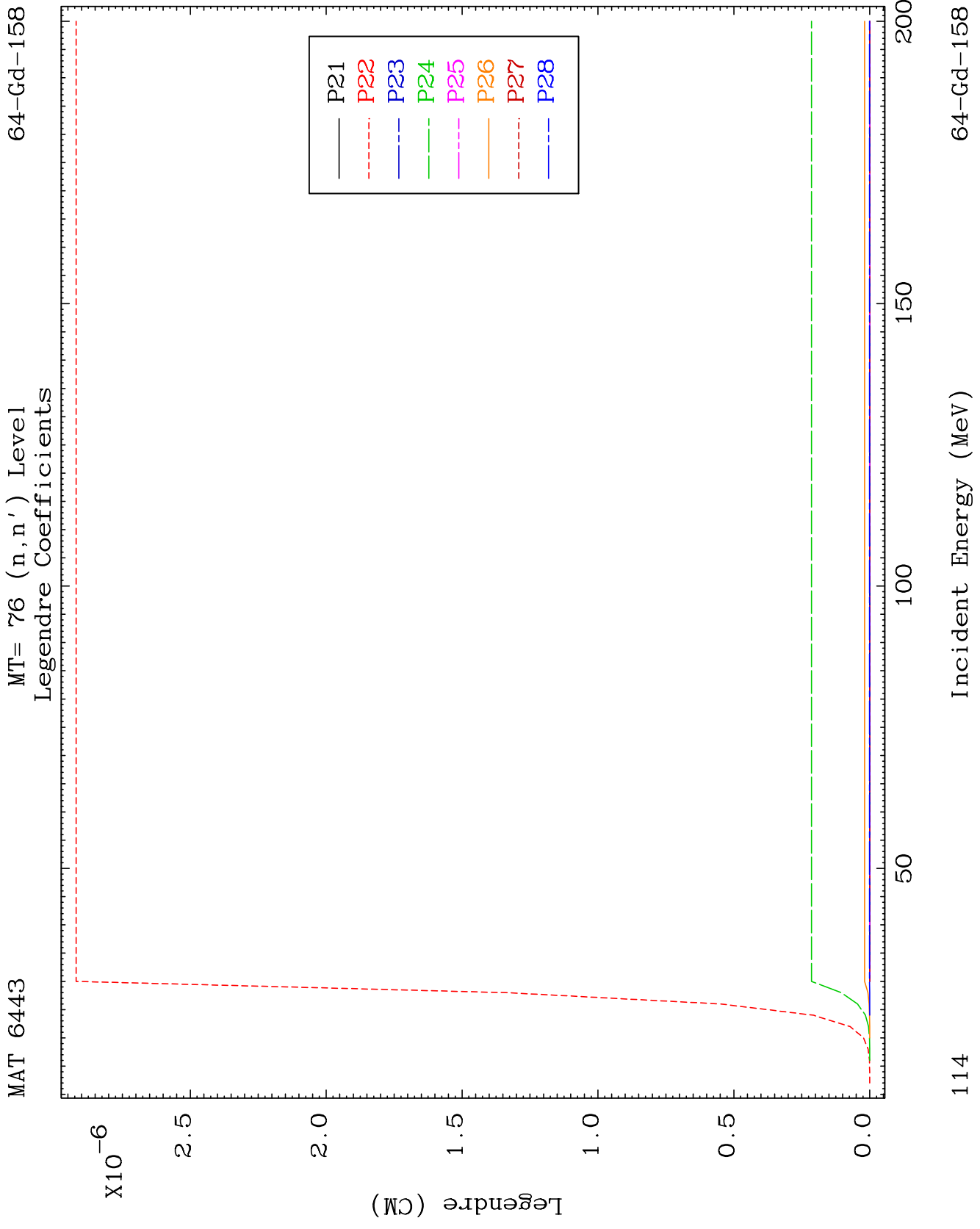
64-Gd-158



113

Incident Energy (MeV)

64-Gd-158

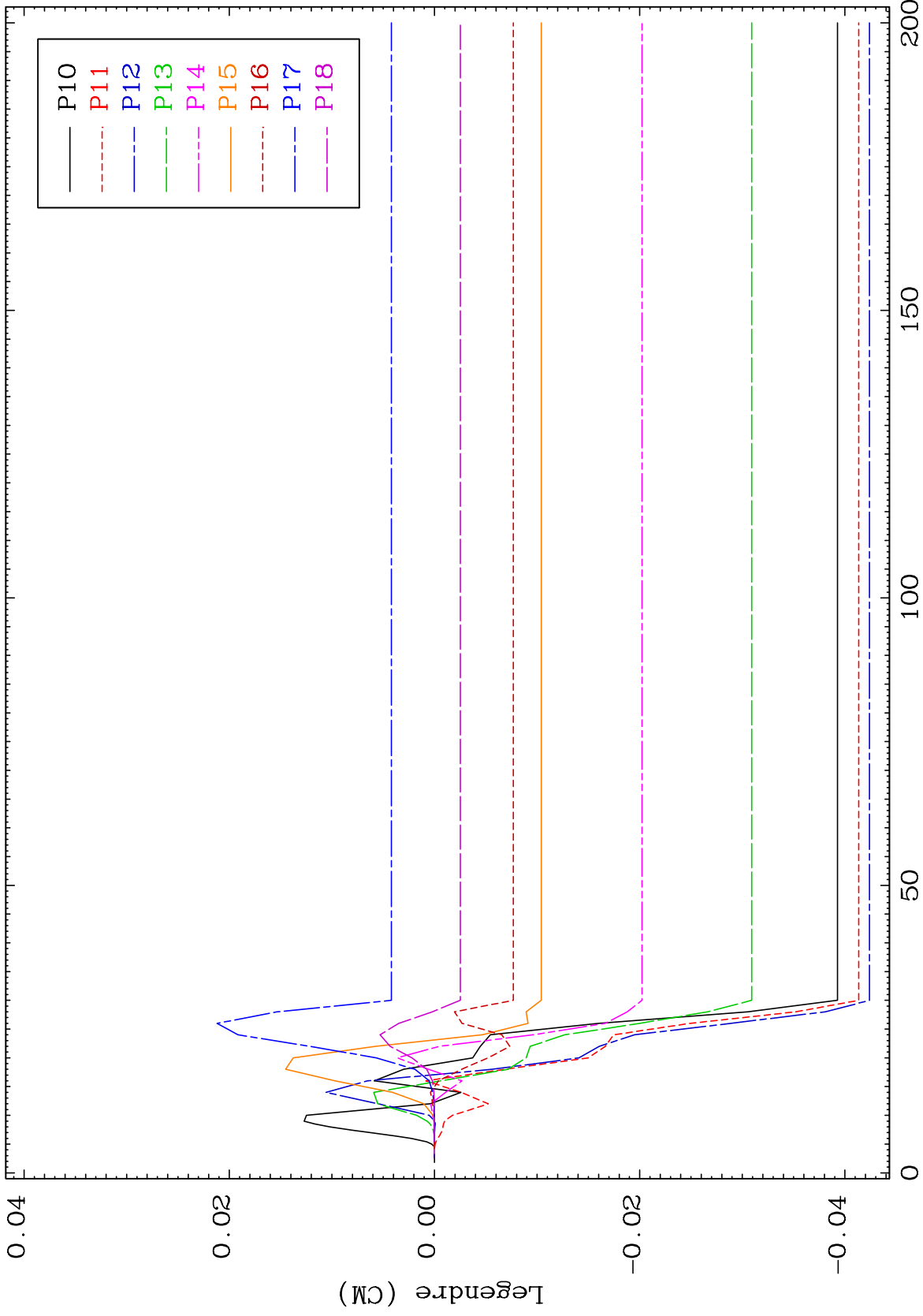




MAT 6443

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

64-Gd-158



116

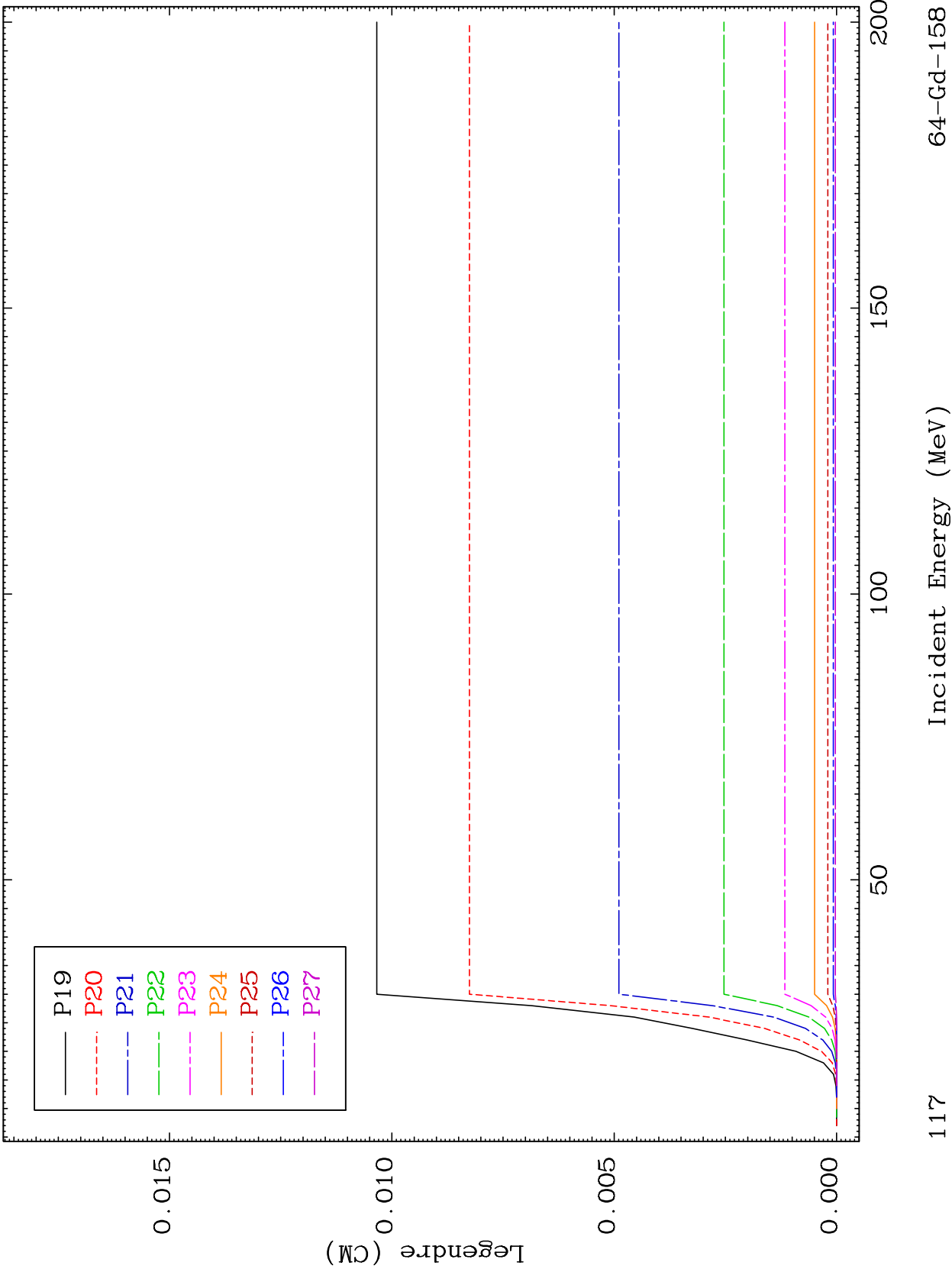
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



117

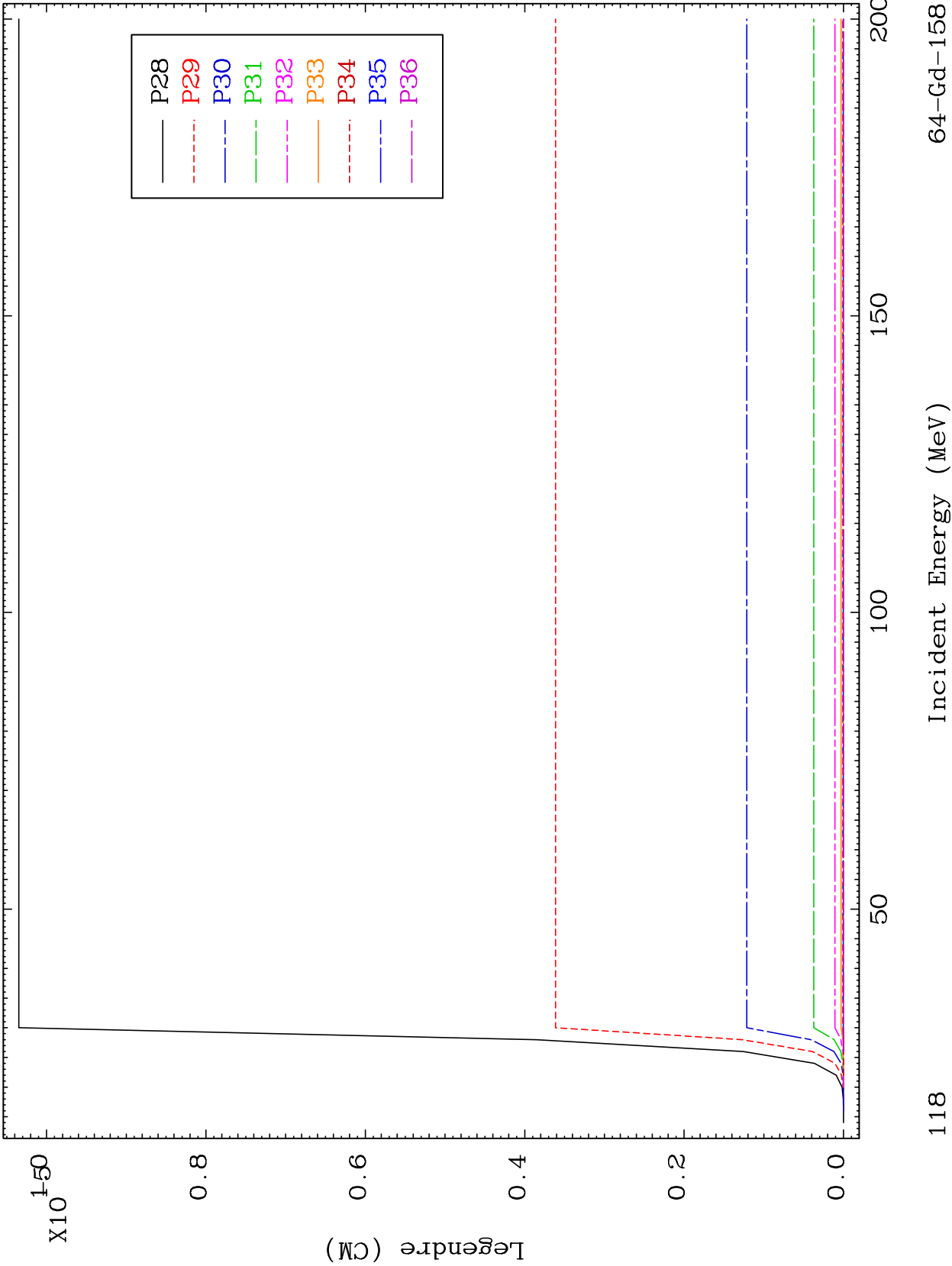
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



118

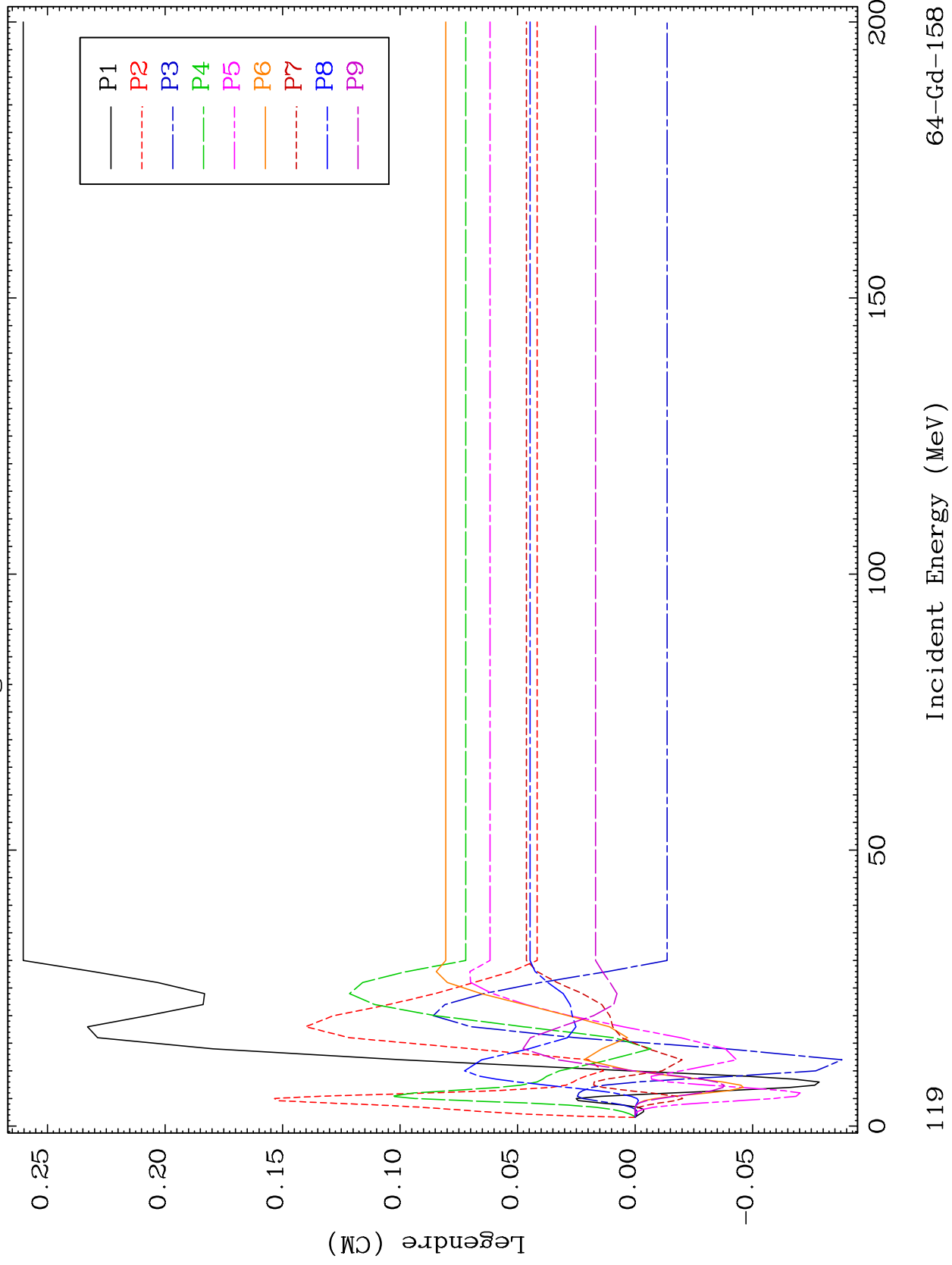
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



64-Gd-158

Incident Energy (MeV)

119

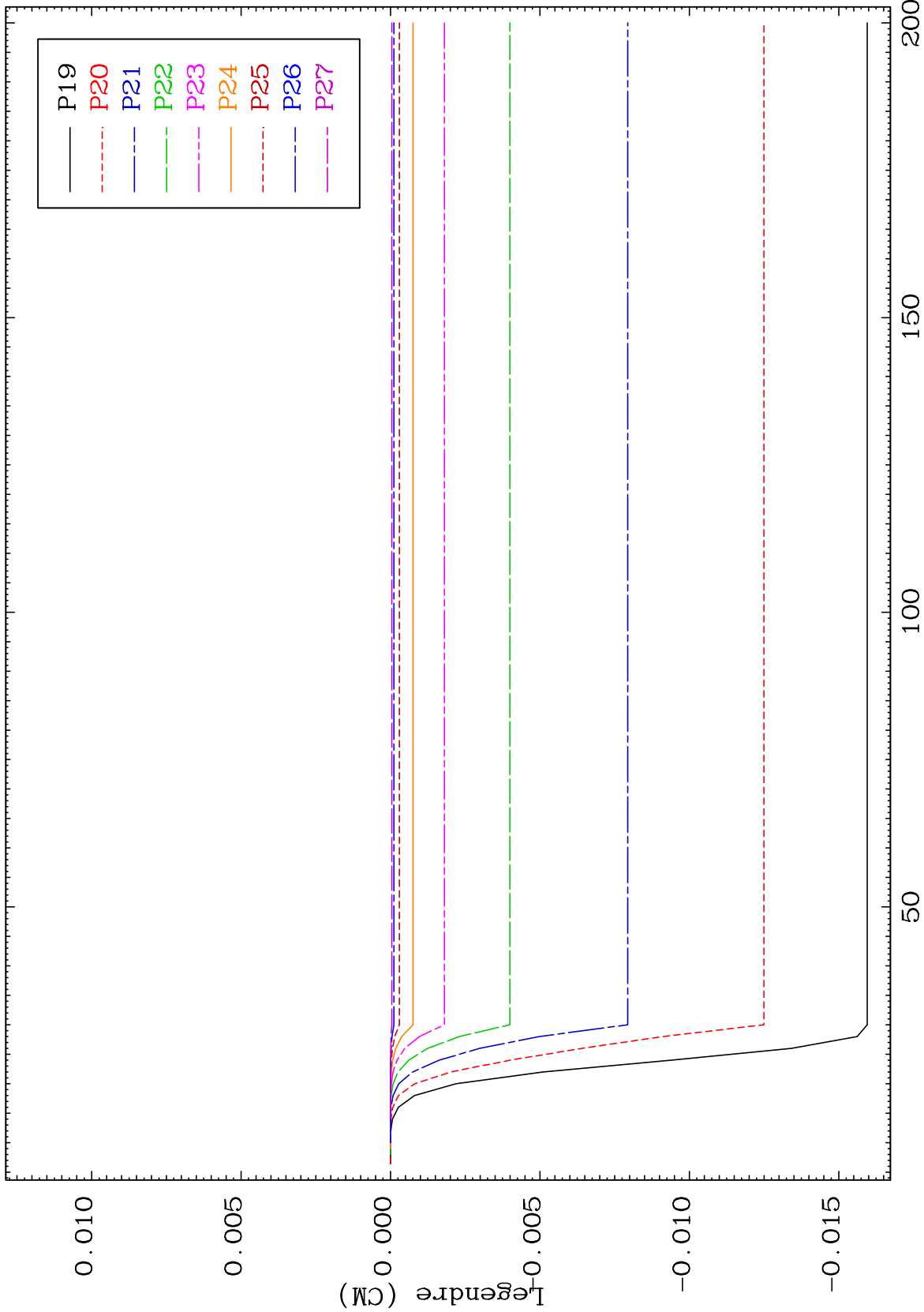




MAT 6443

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

64-Gd-158



121

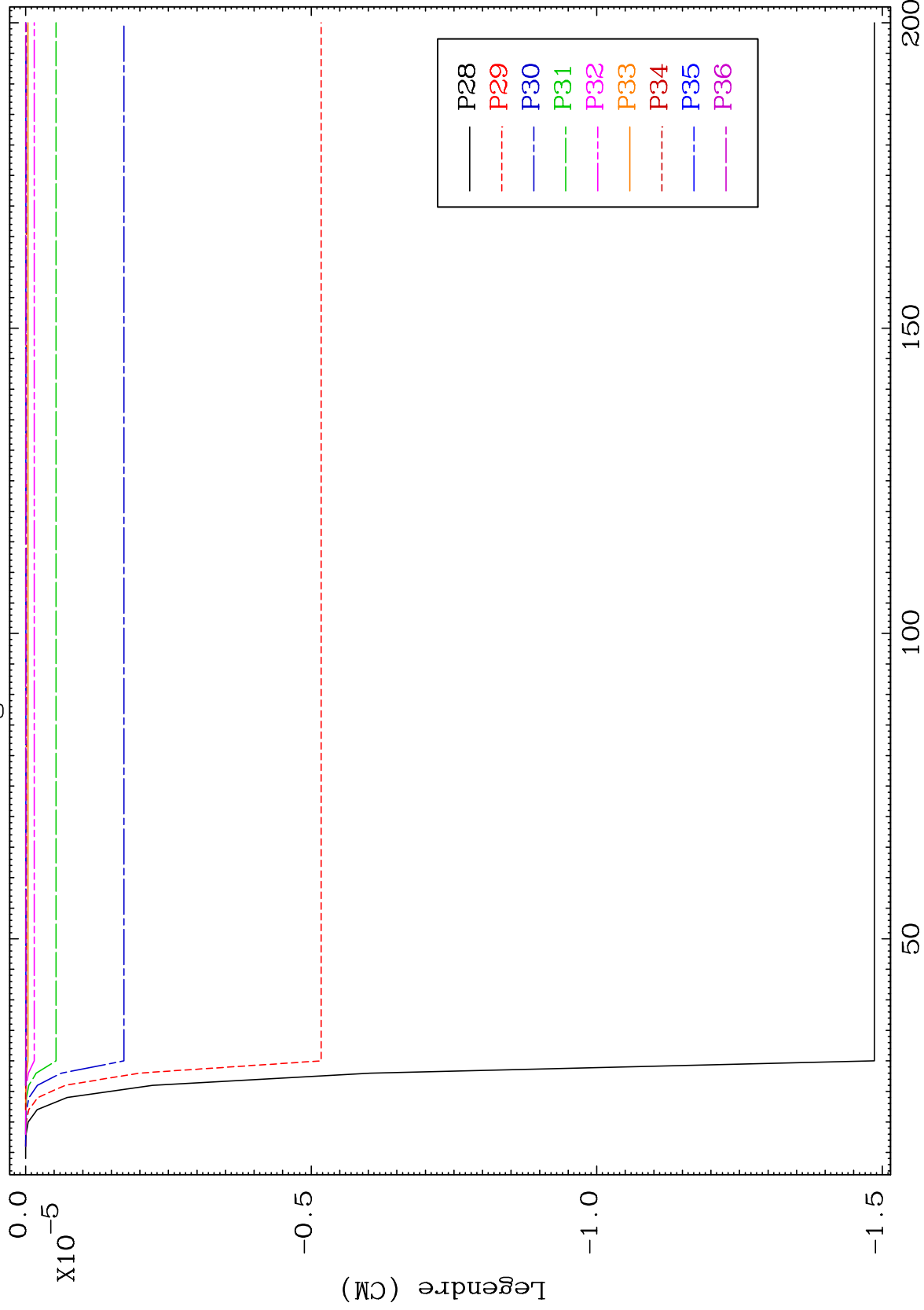
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



122

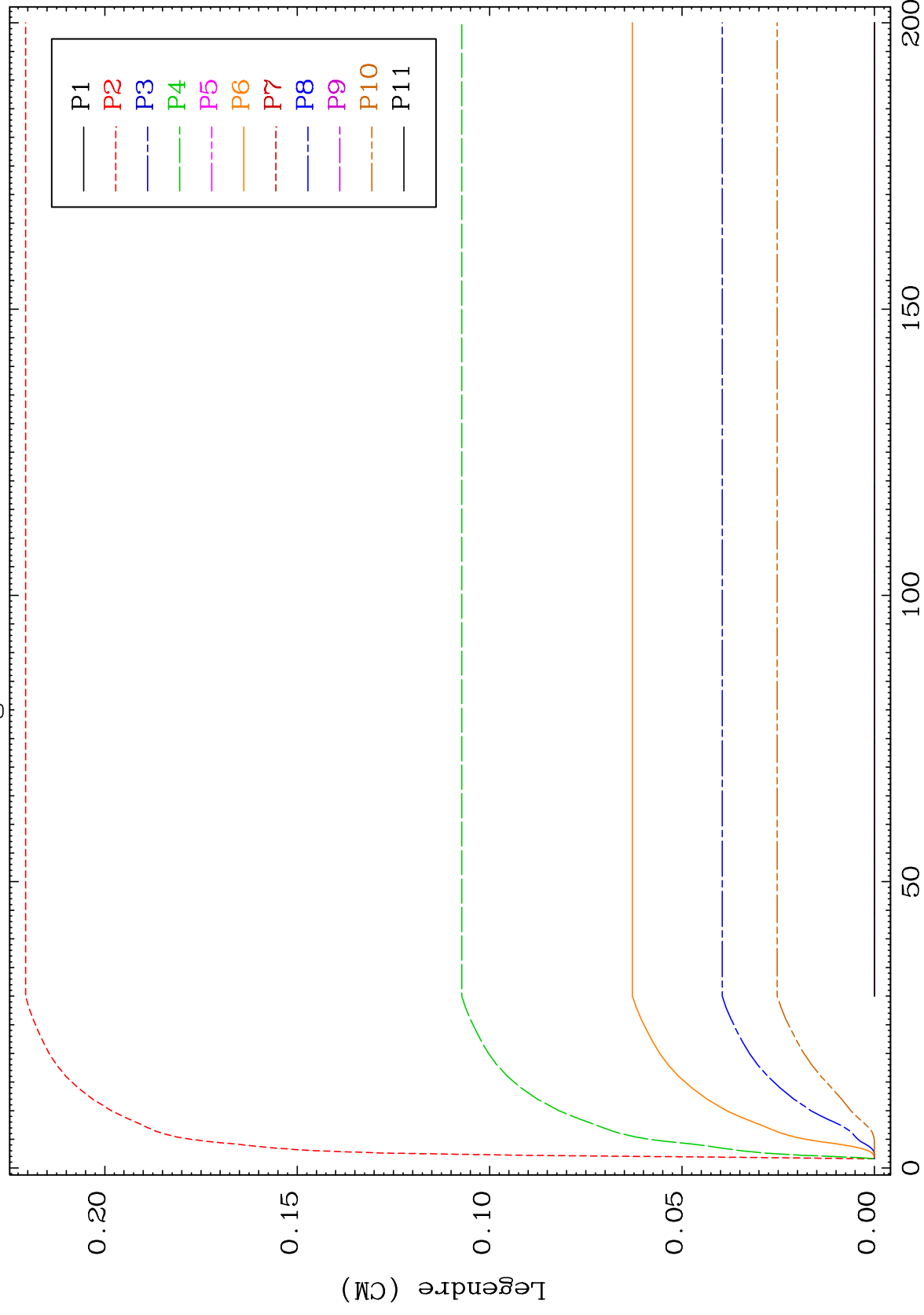
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



123

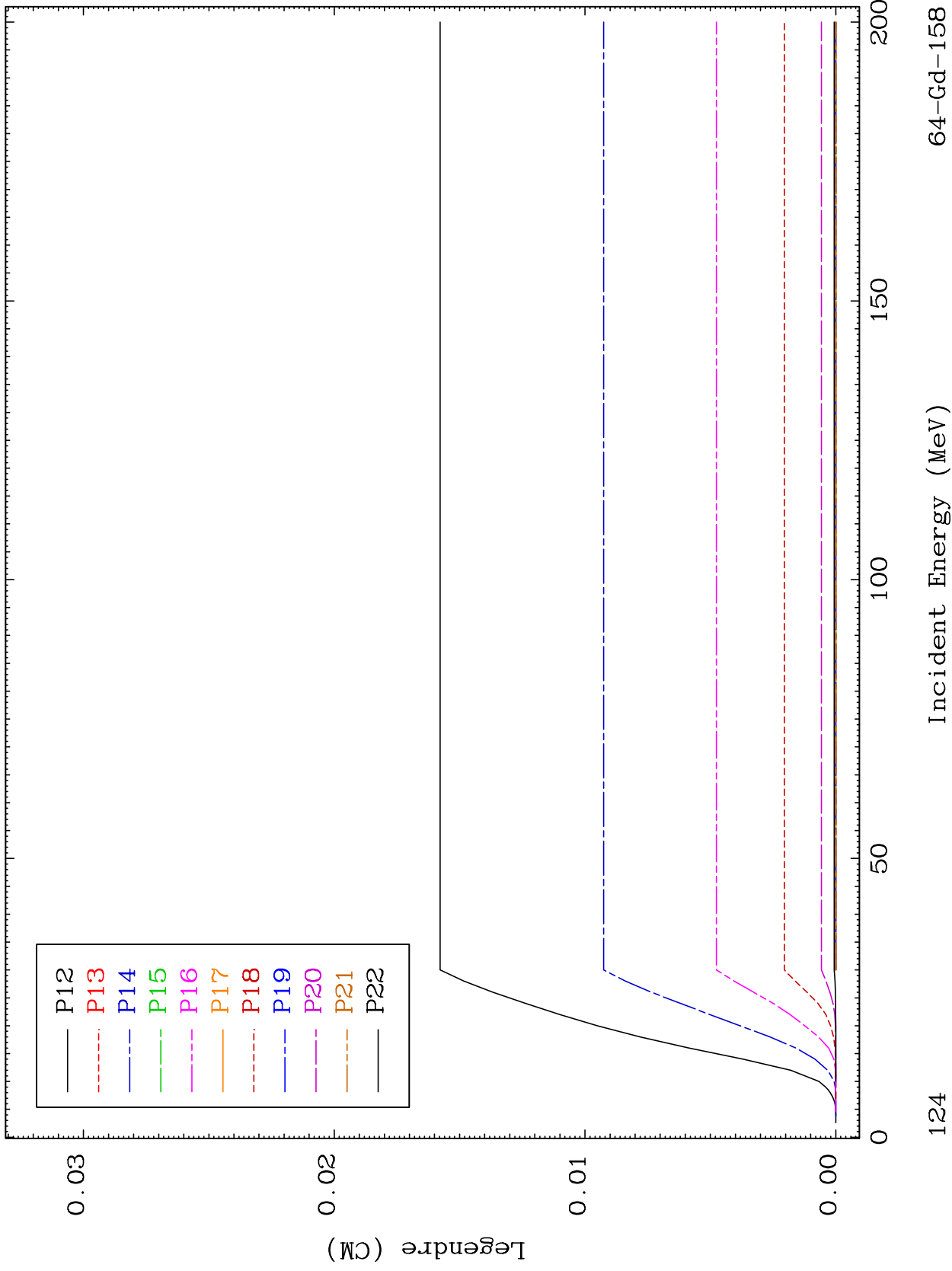
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



124

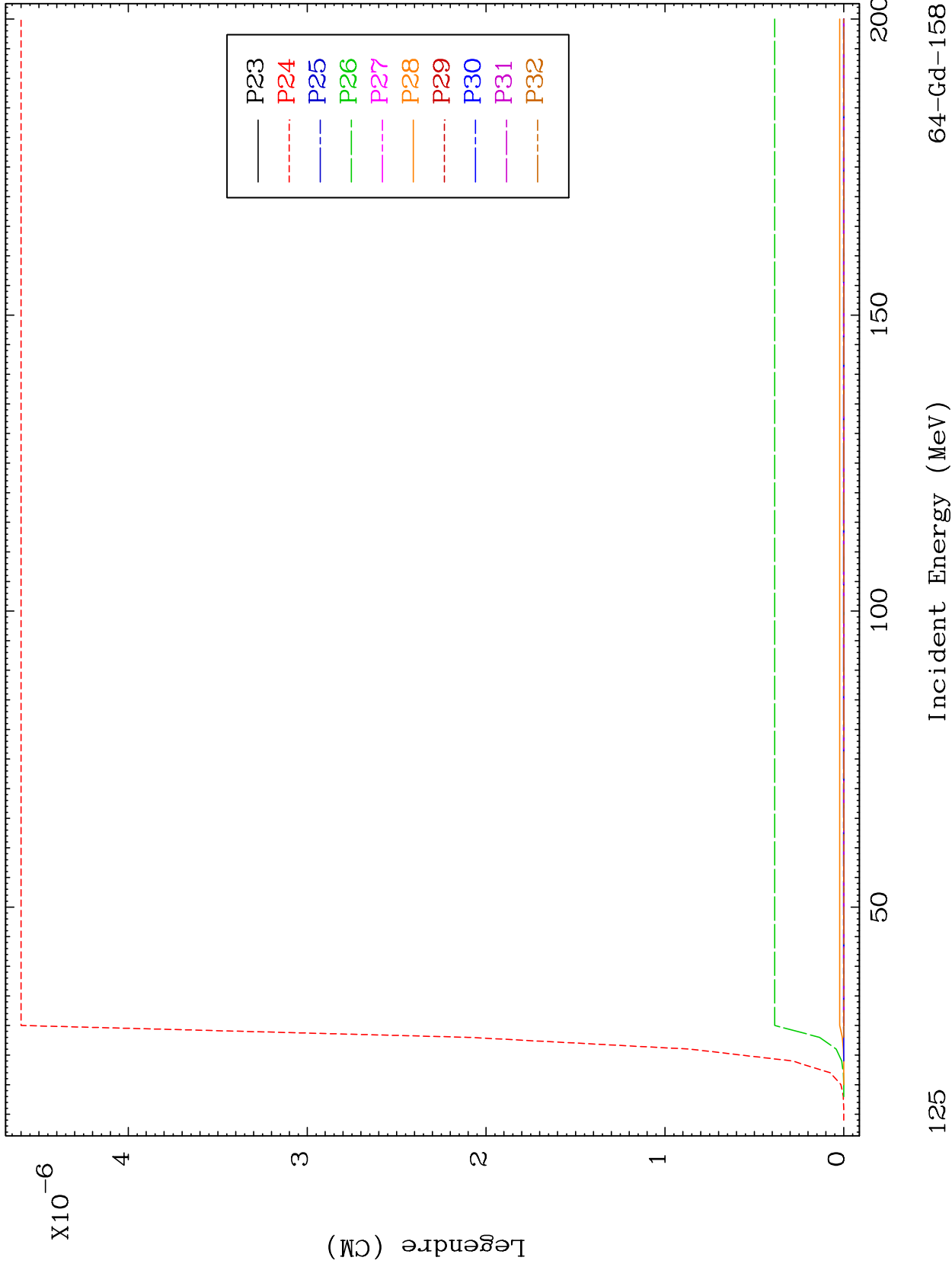
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

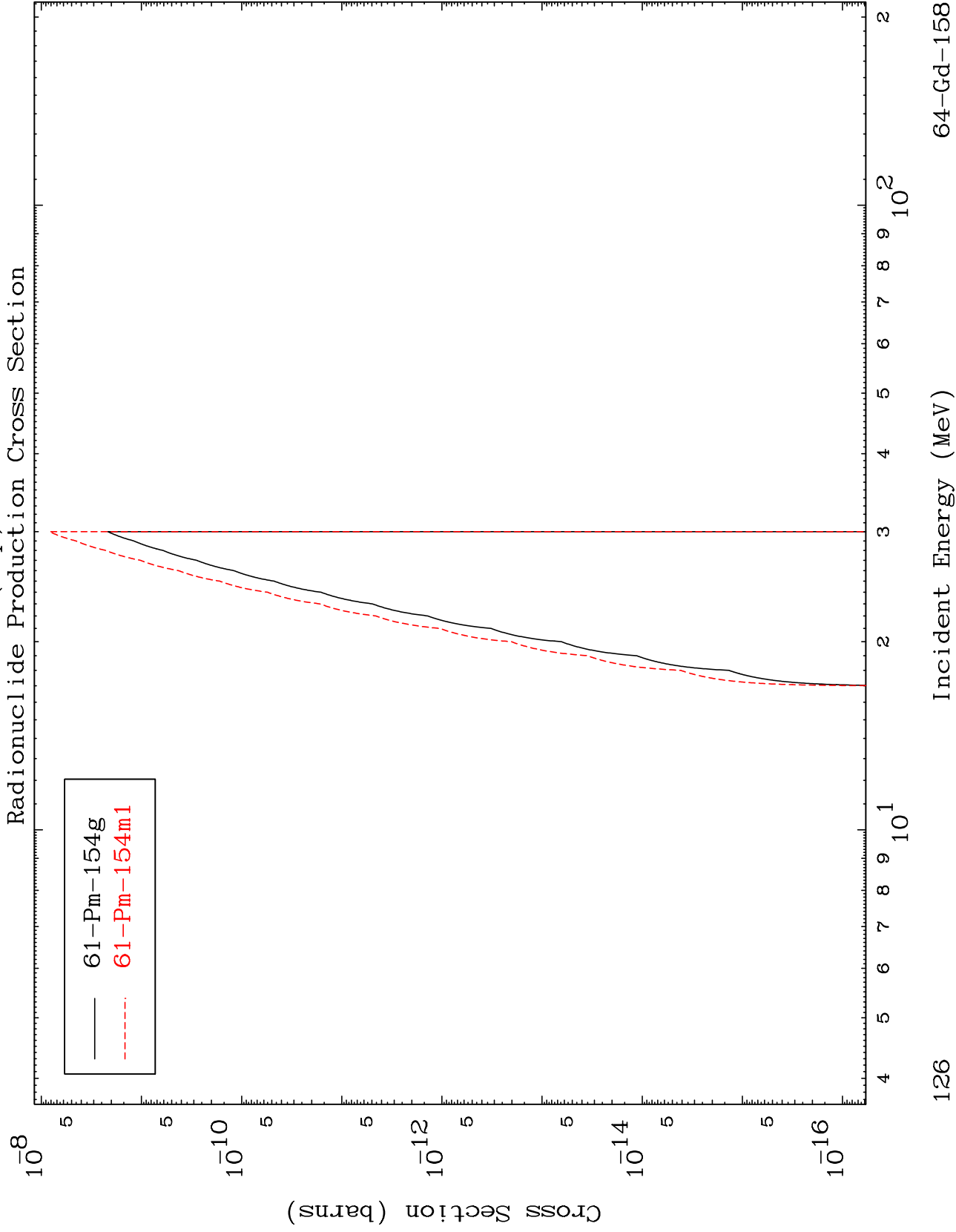
64-Gd-158



MAT 6443

(n,p)  $\alpha$

64-Gd-158



126