

Program EVALPLOT
(Version 2017-1)

by

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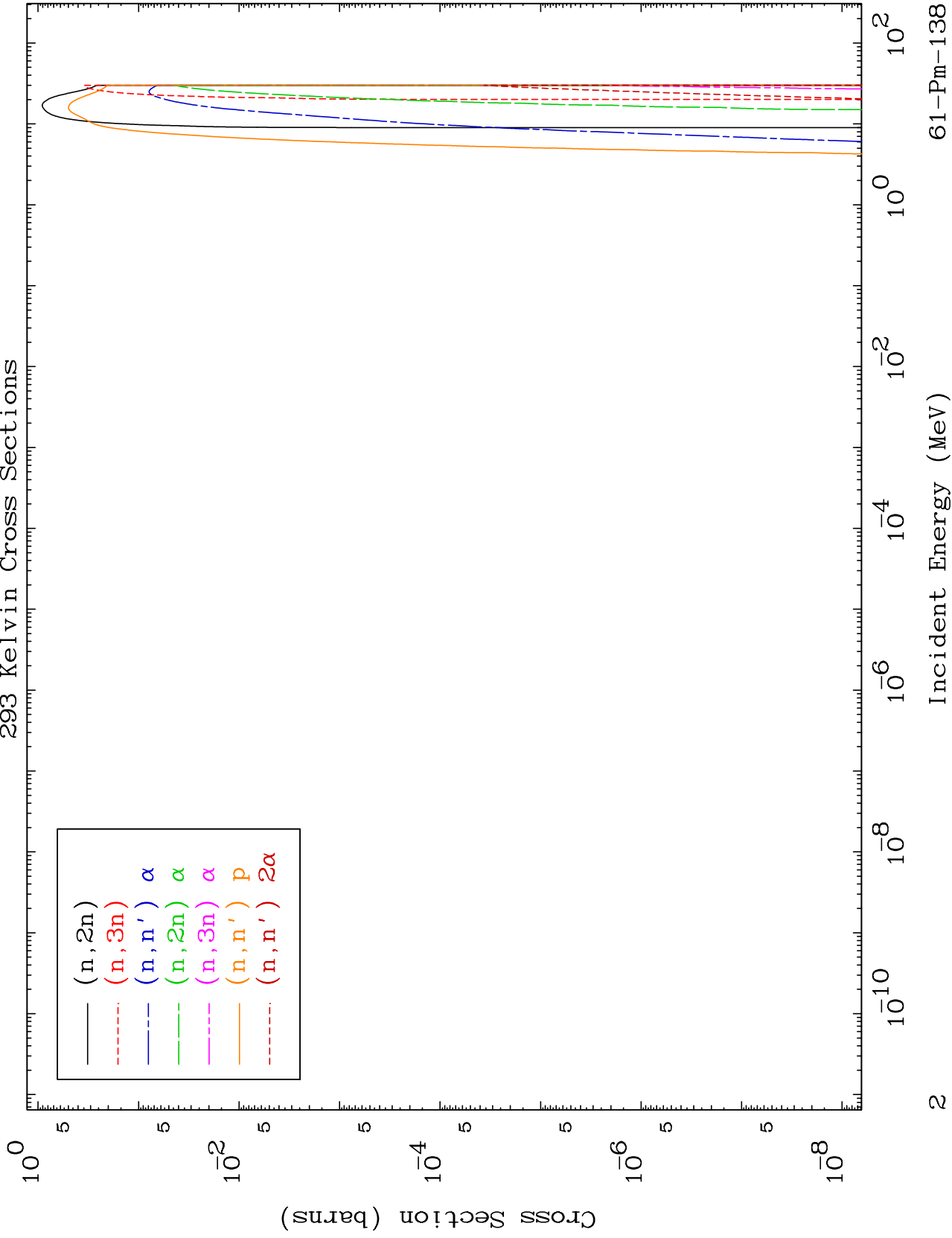
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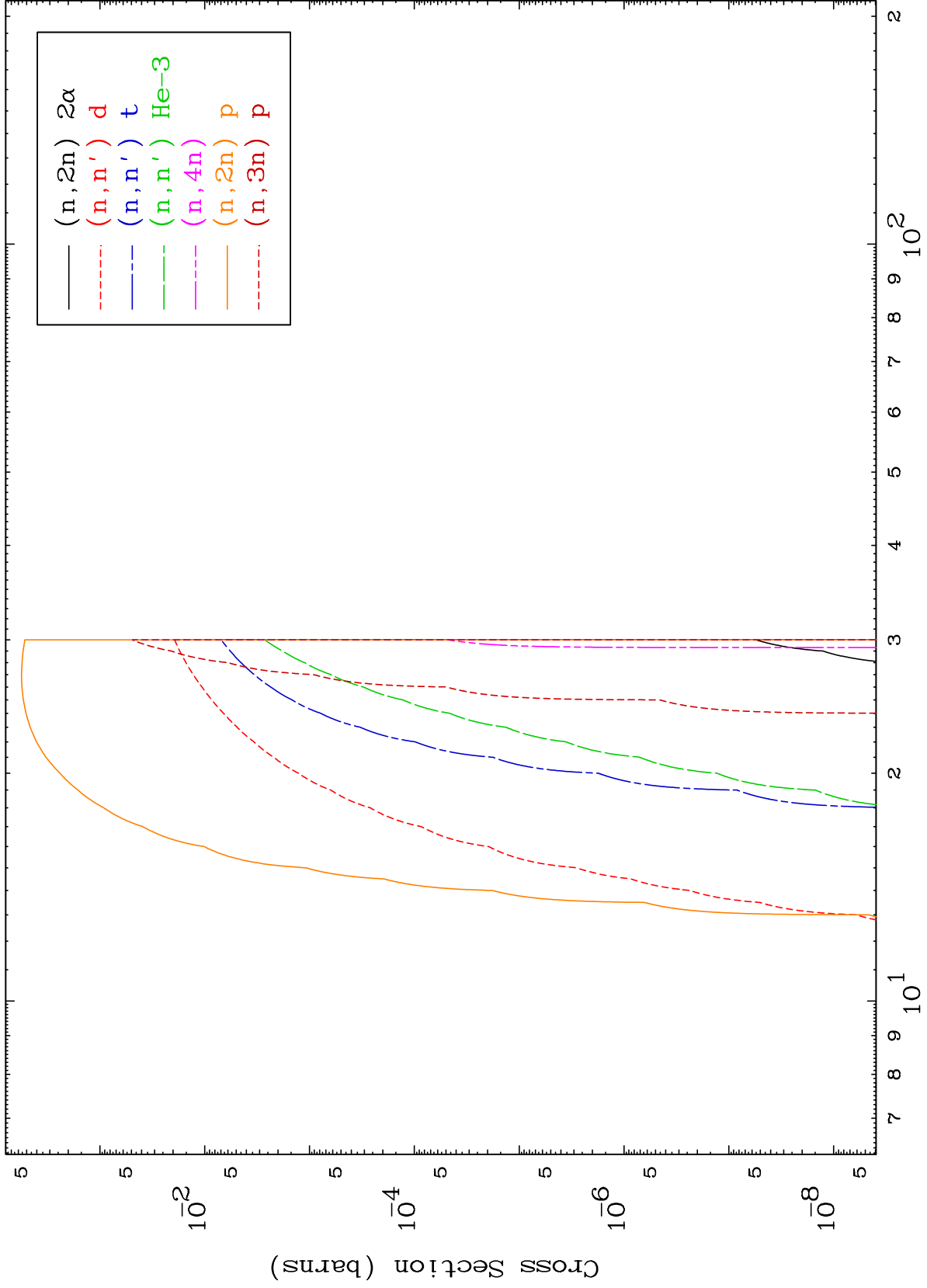
Press Mouse Button to Start

MAT 6122

Neutron Production
293 Kelvin Cross Sections

61-Pm-138

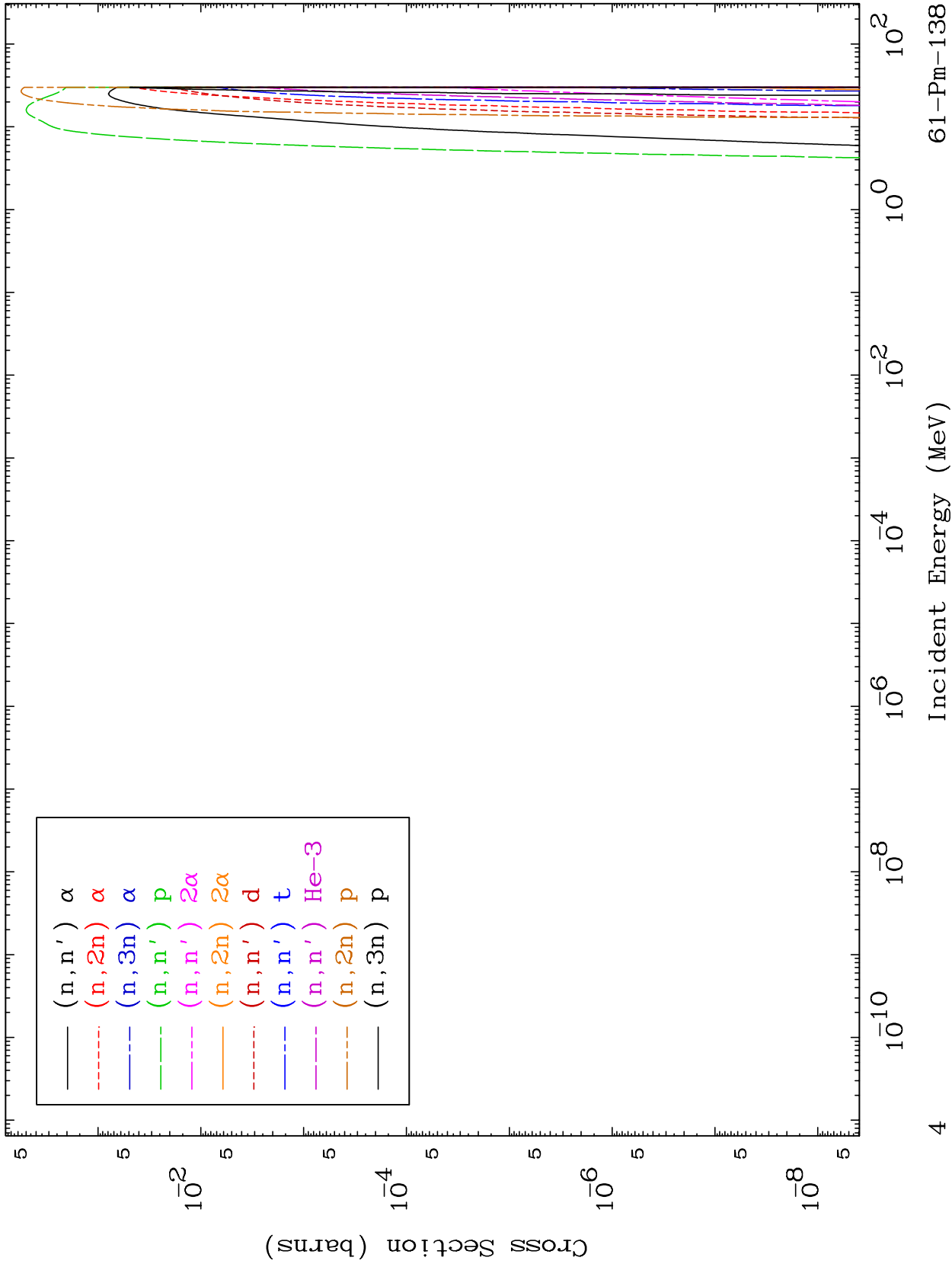




MAT 6122

Charged Particle
293 Kelvin Cross Sections

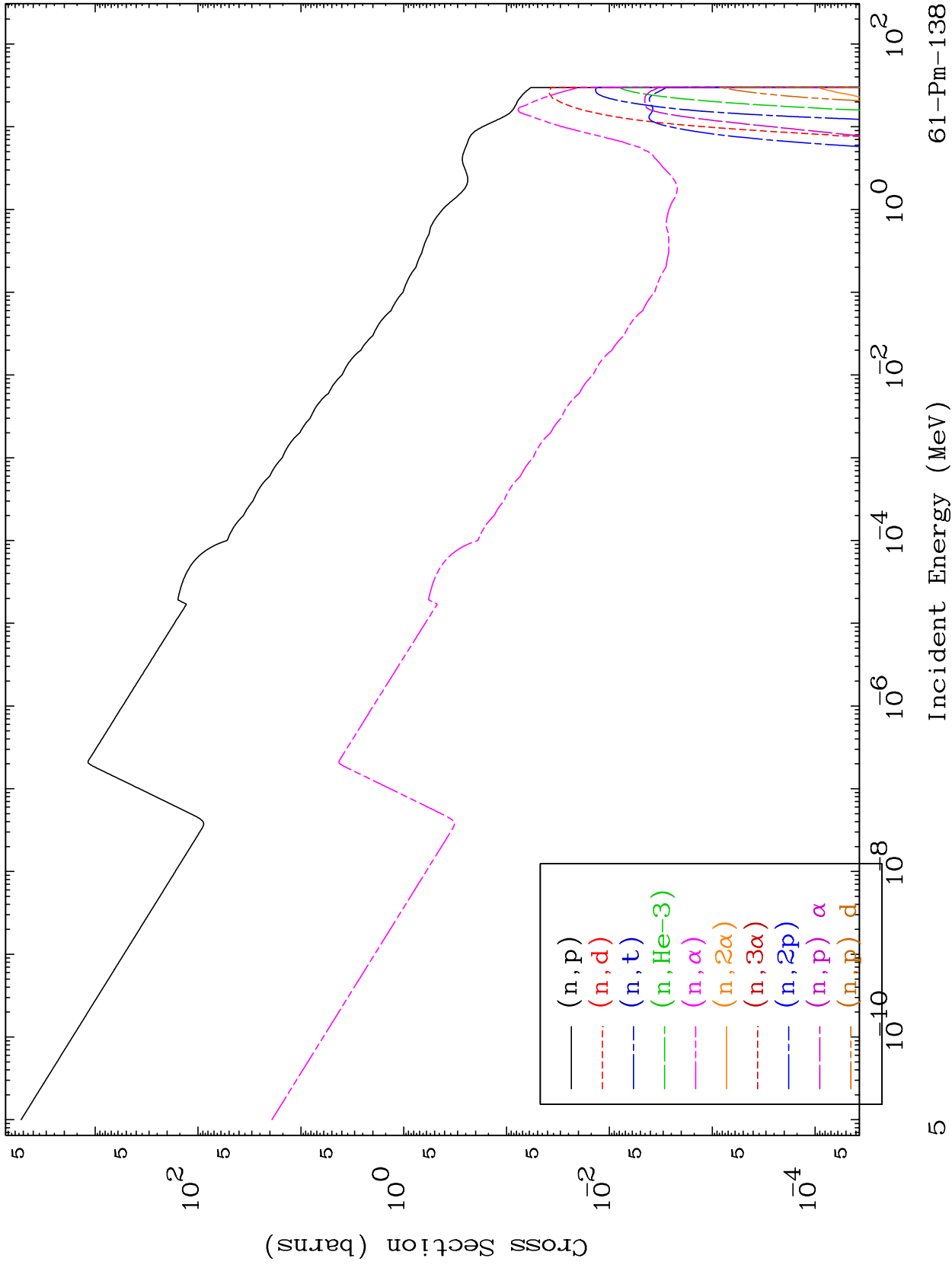
61-Pm-138



MAT 6122

Charged Particle
293 Kelvin Cross Sections

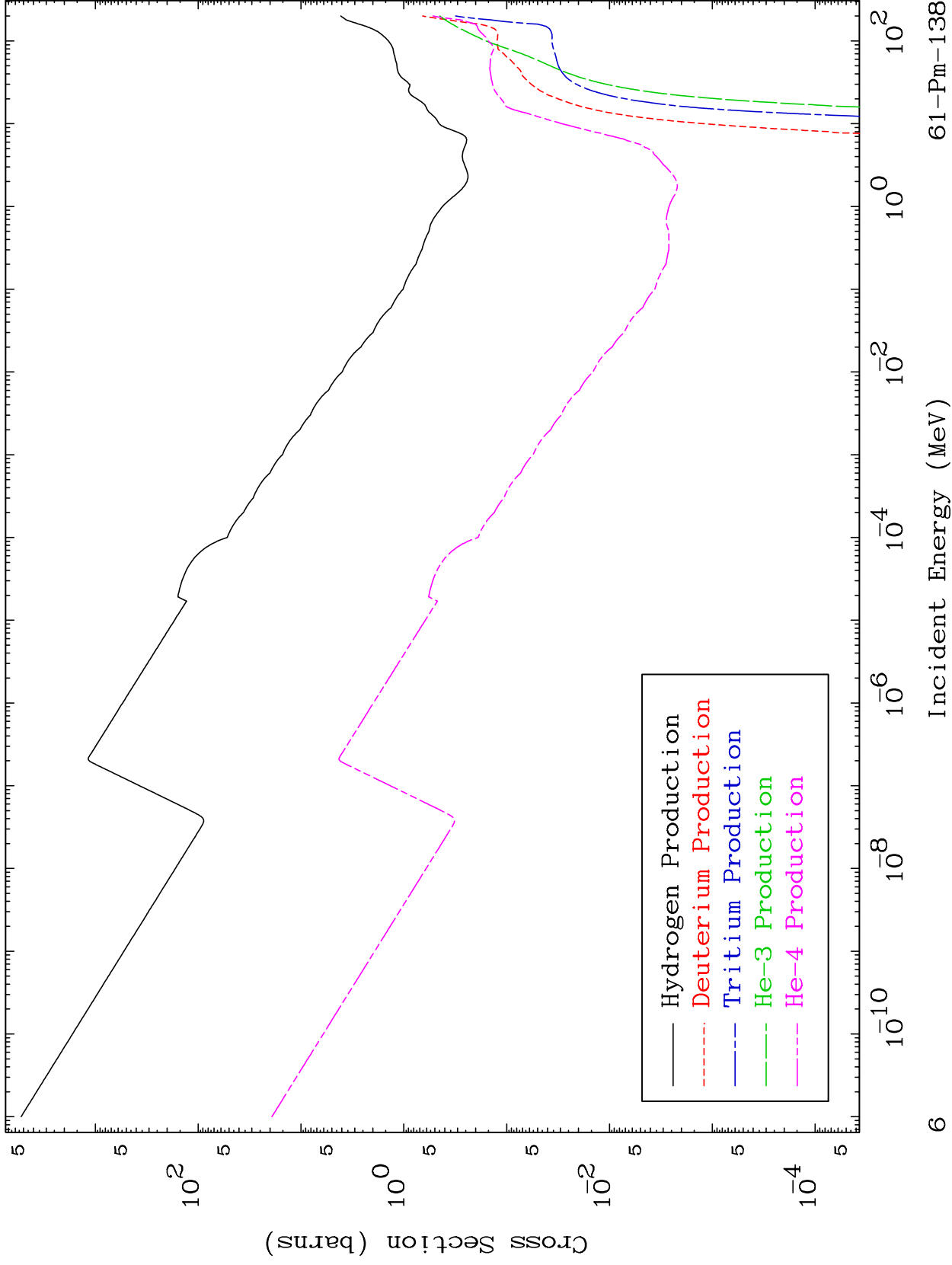
61-Pm-138

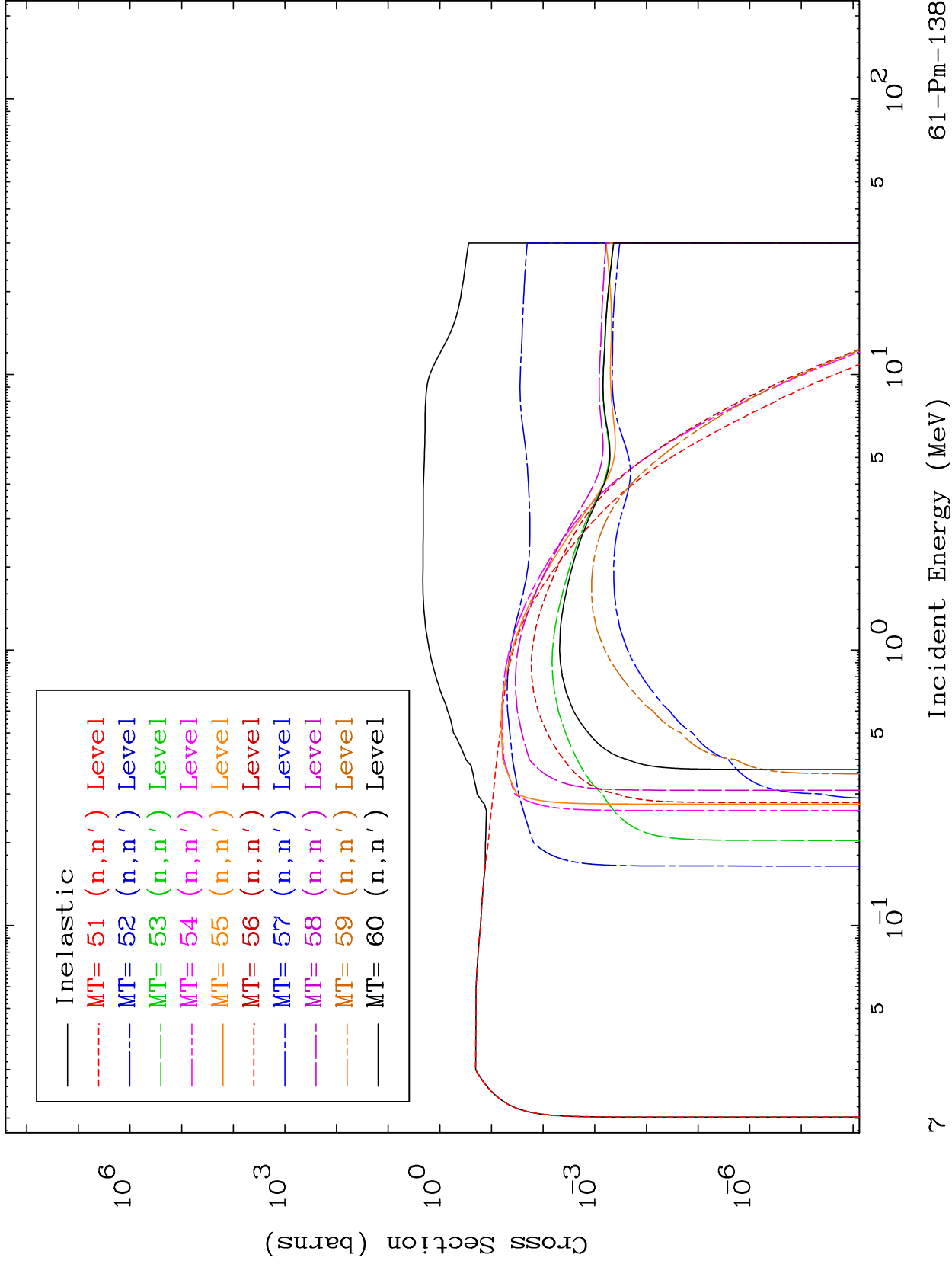


MAT 6122

Particle Production
293 Kelvin Cross Sections

61-Pm-138



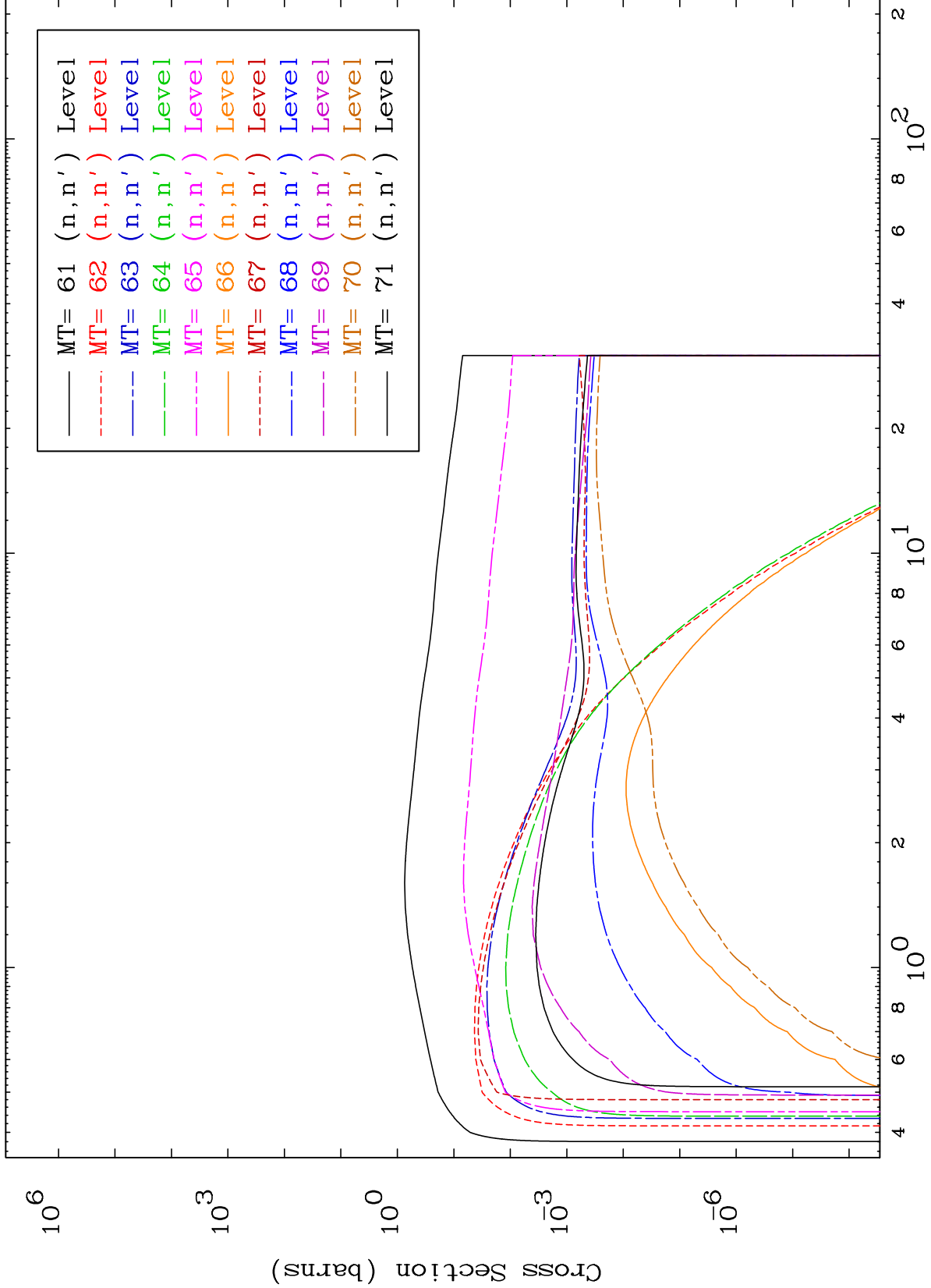


MAT 6122

(n,n') Level

61-Pm-138

293 Kelvin Cross Sections

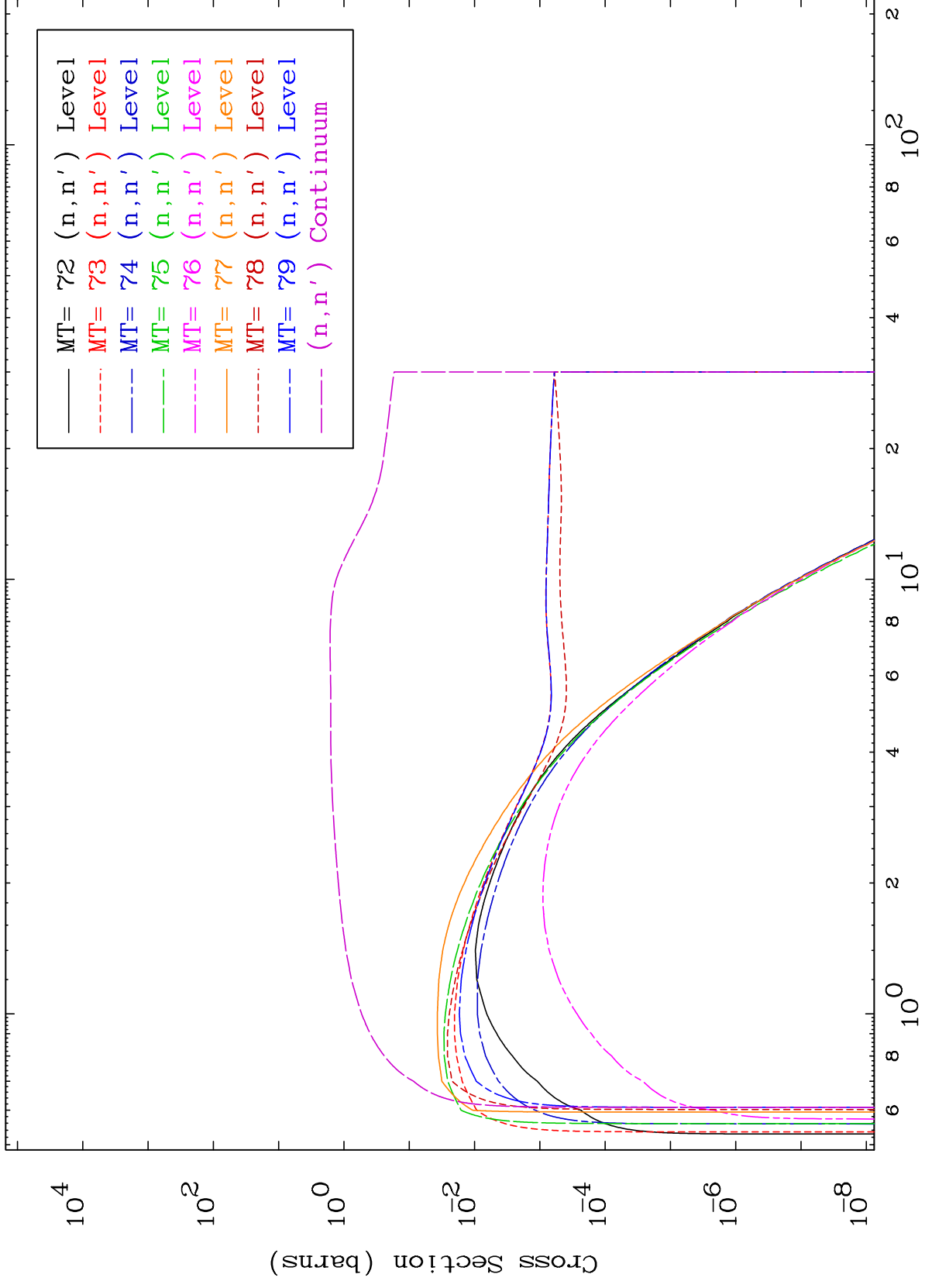


8

Incident Energy (MeV)

61-Pm-138

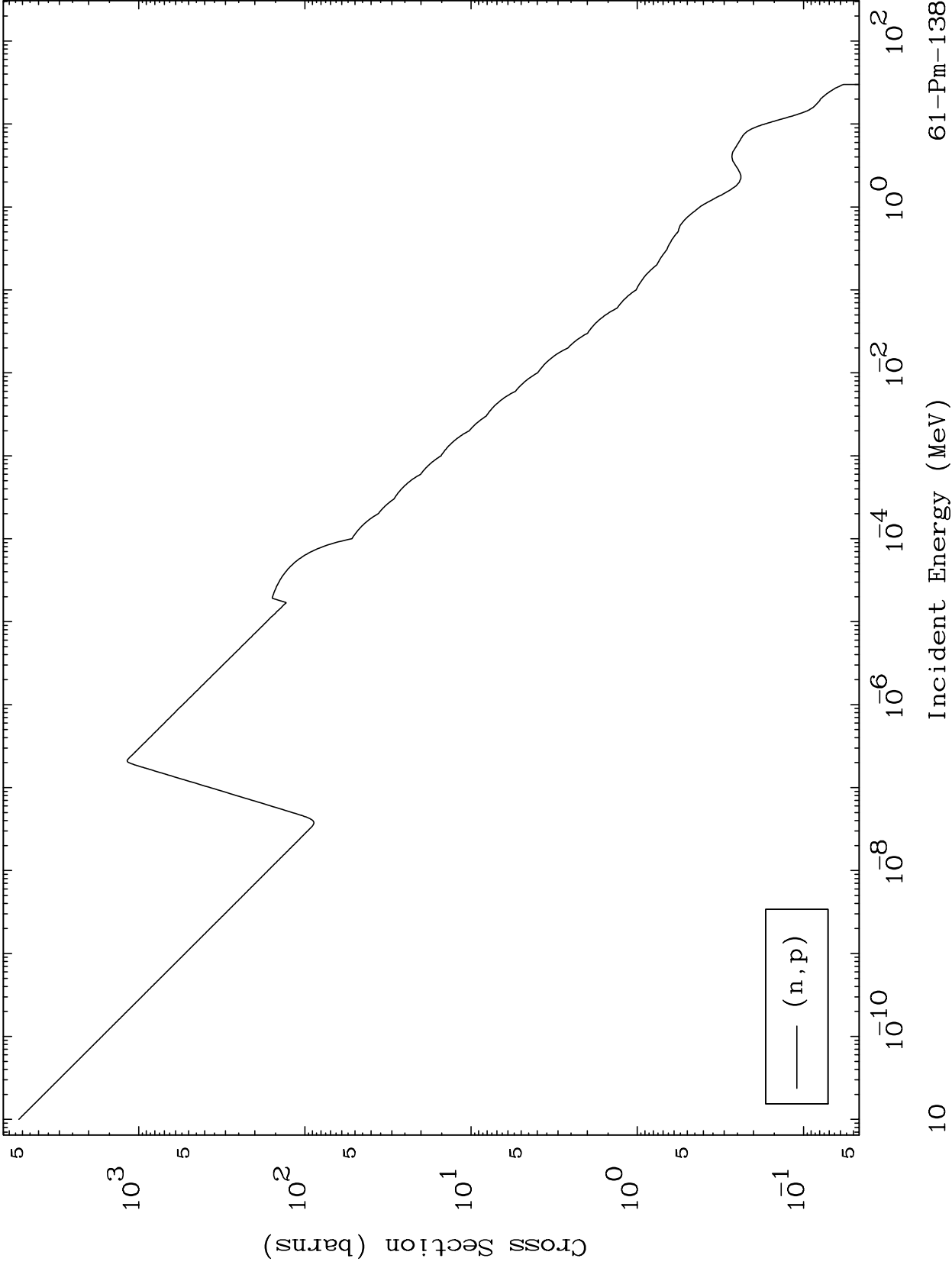
293 Kelvin Cross Sections



MAT 6122

(n,p) Levels
293 Kelvin Cross Sections

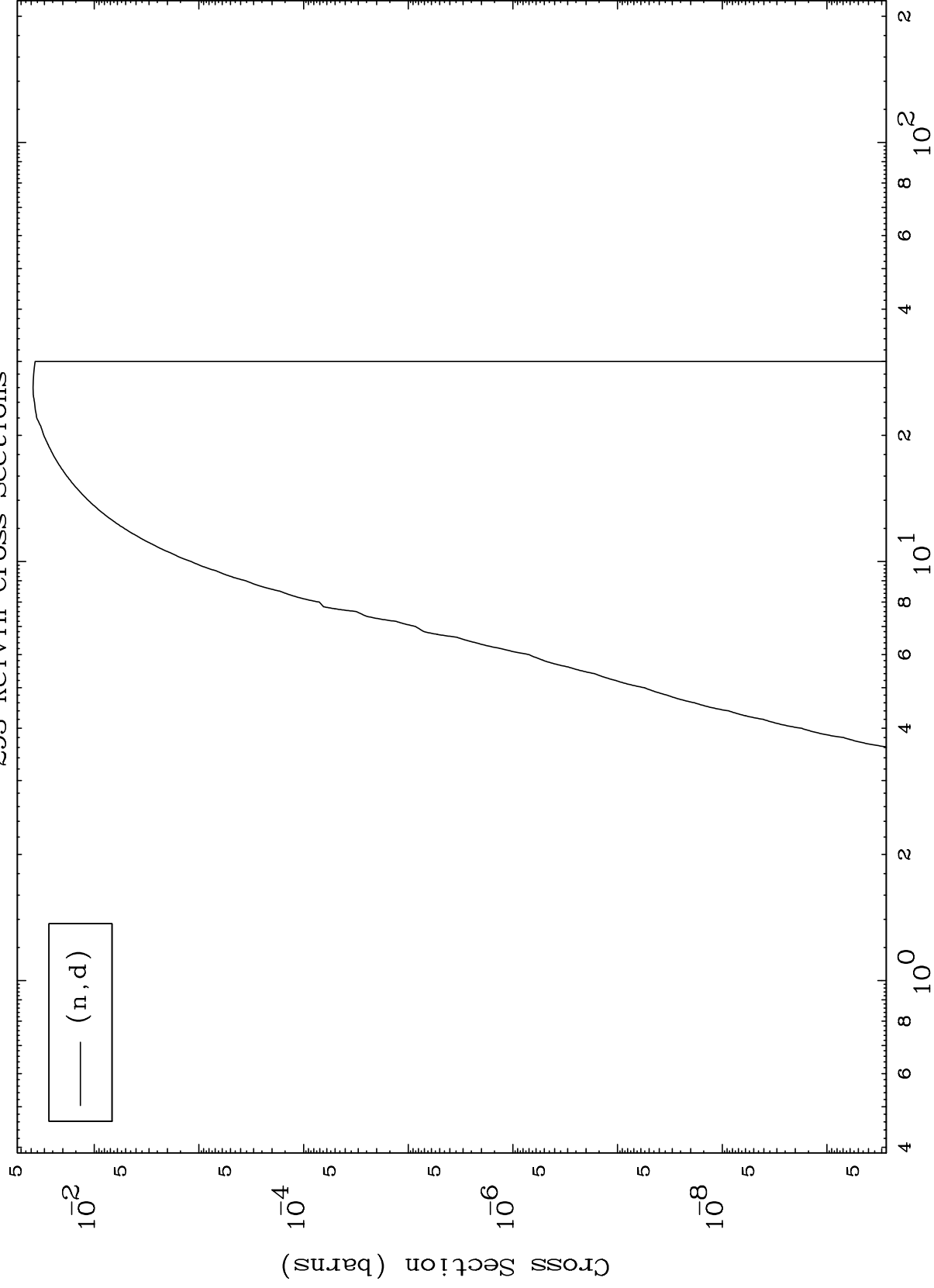
61-Pm-138



MAT 6122

(n,d) Levels
293 Kelvin Cross Sections

61-Pm-138



11

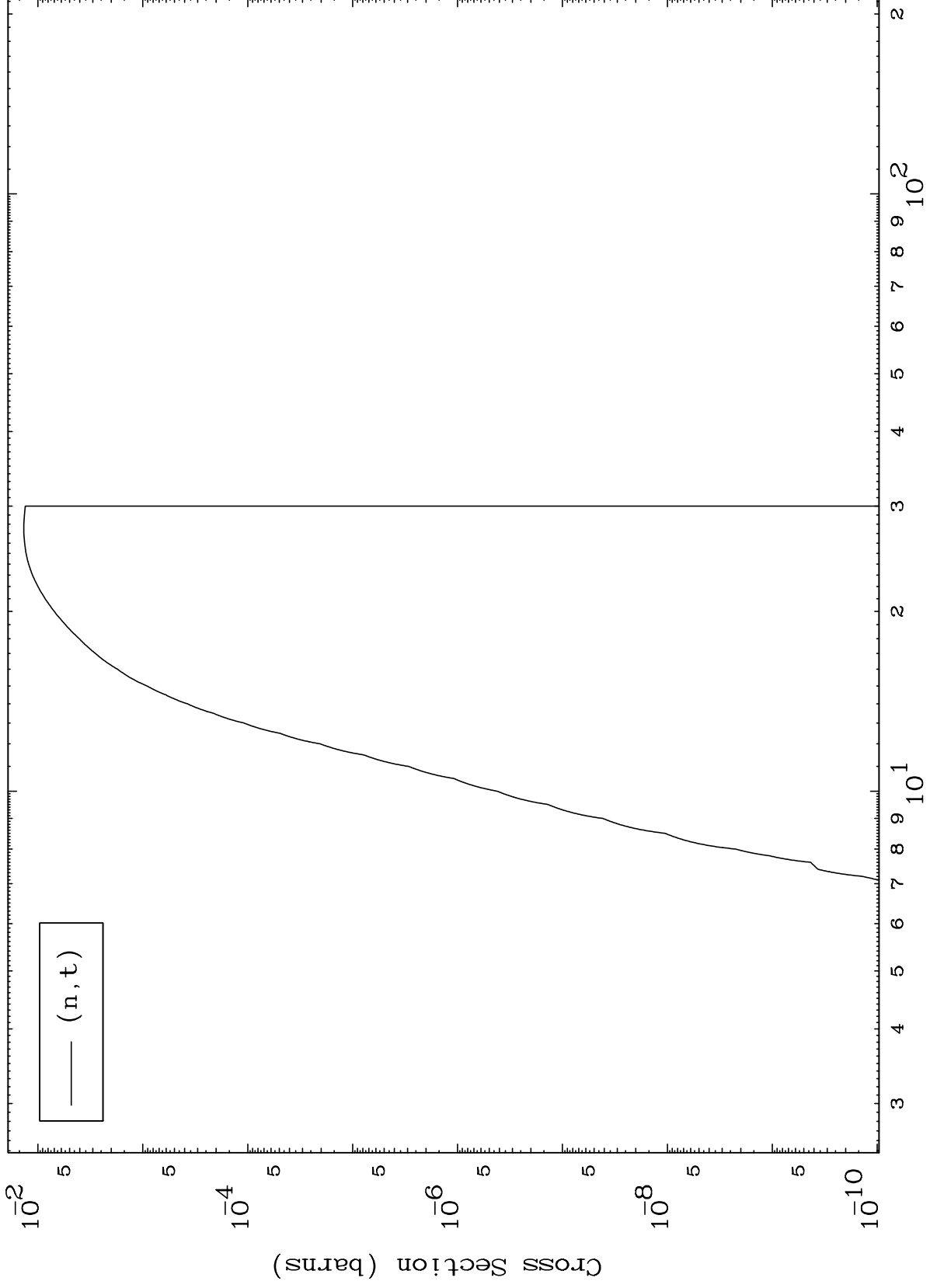
Incident Energy (MeV)

61-Pm-138

MAT 6122

(n,t) Levels
293 Kelvin Cross Sections

61-Pm-138



12

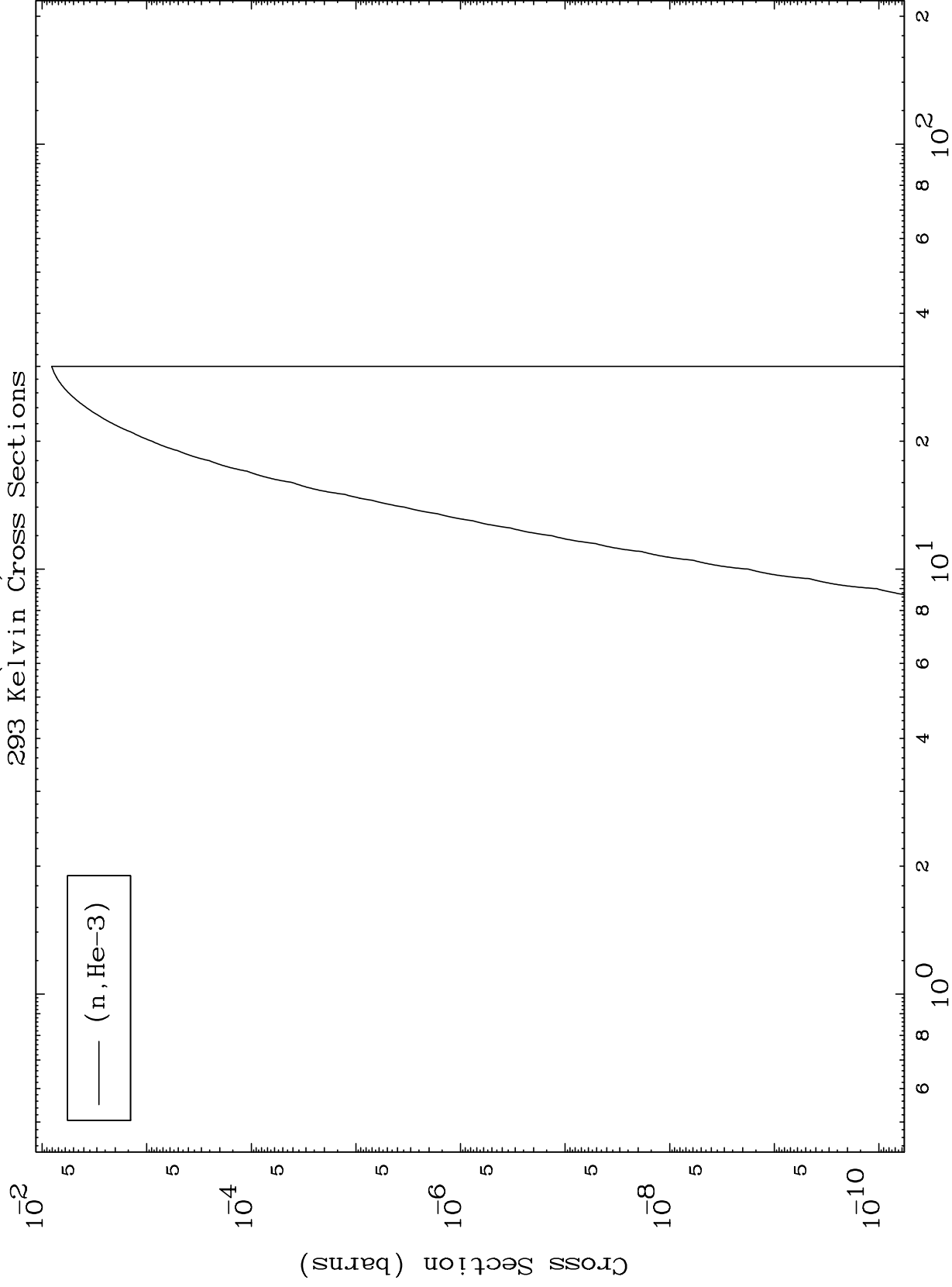
Incident Energy (MeV)

61-Pm-138

MAT 6122

(n,He3) Levels
293 Kelvin Cross Sections

61-Pm-138



13

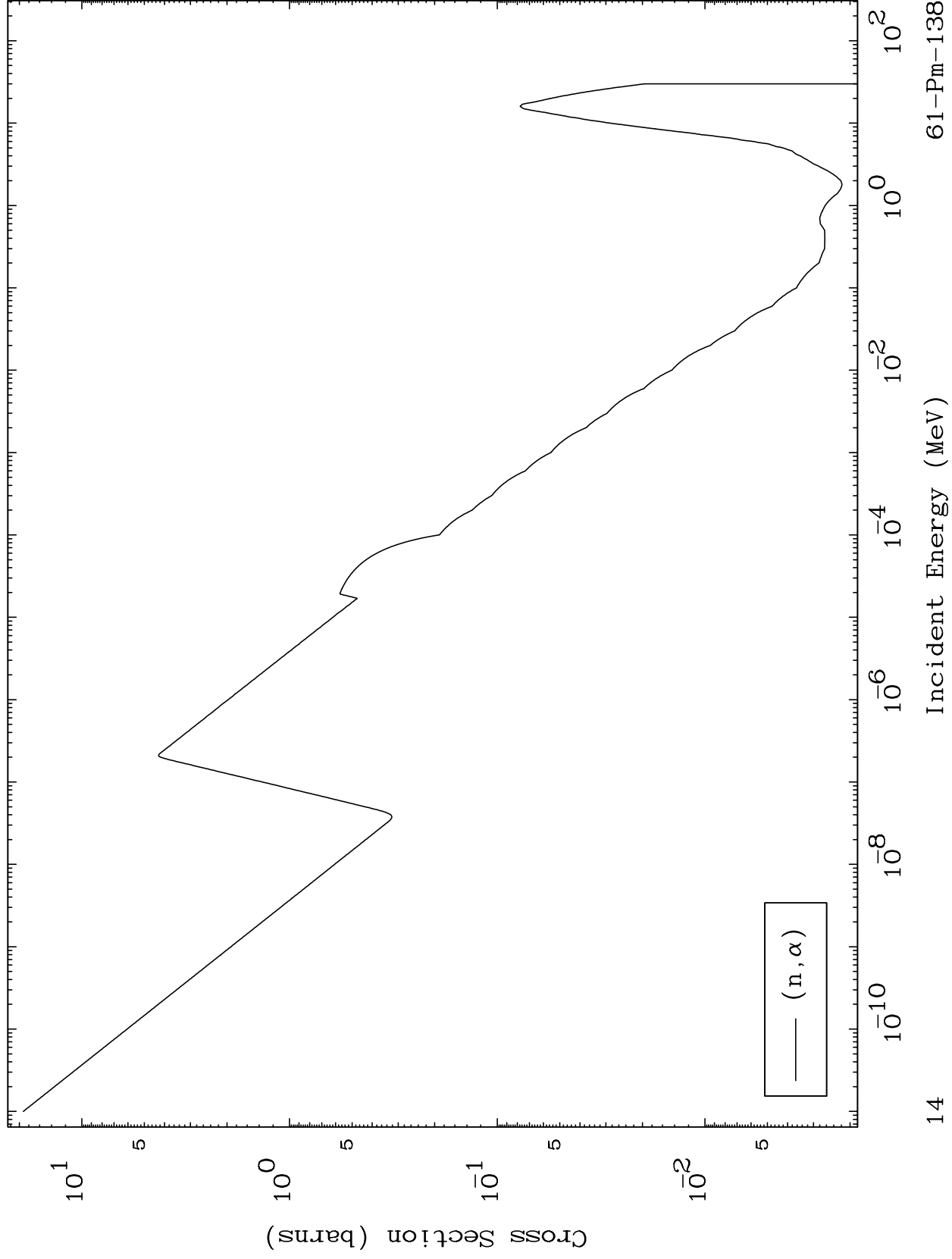
Incident Energy (MeV)

61-Pm-138

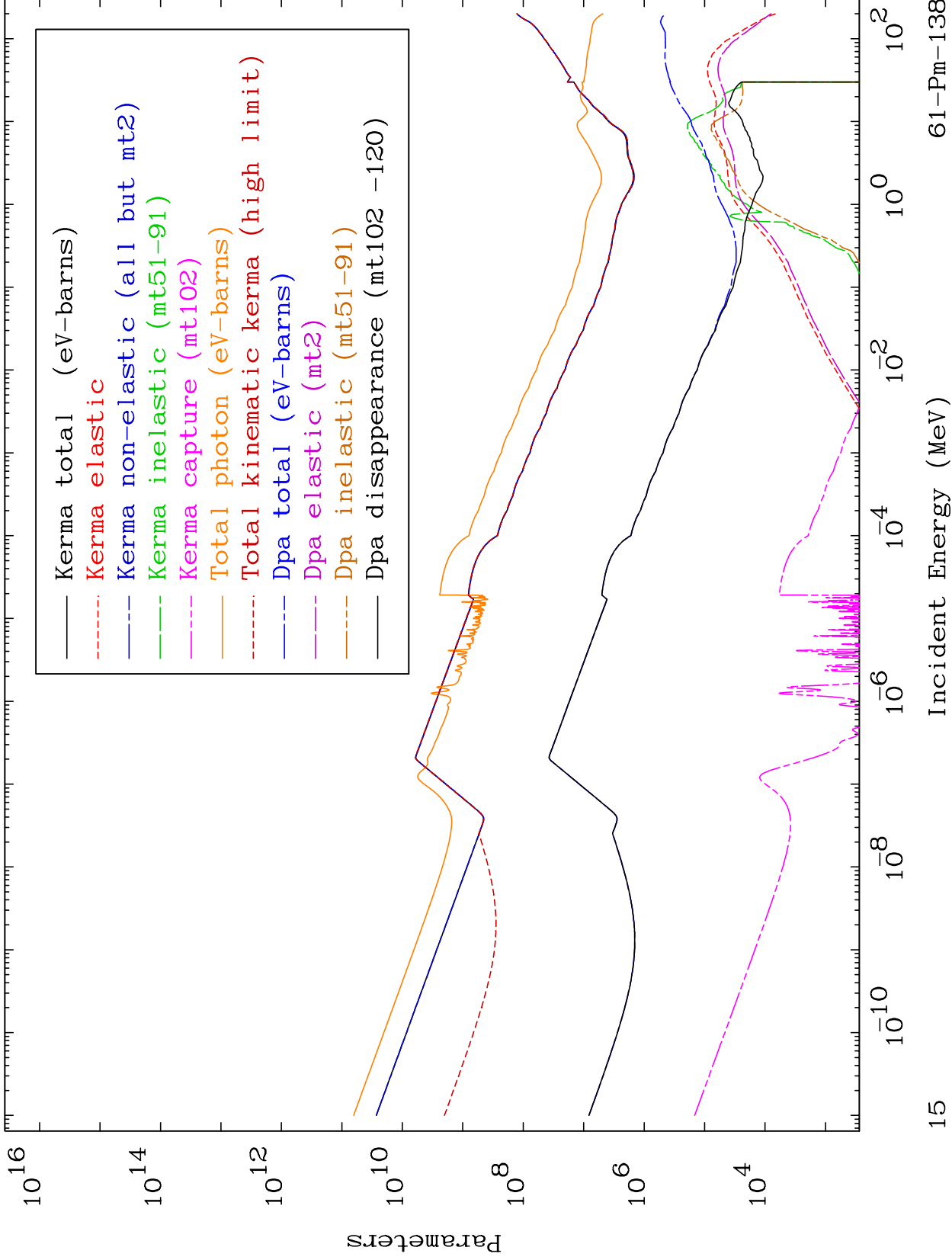
MAT 6122

(n, α) Levels
293 Kelvin Cross Sections

61-Pm-138



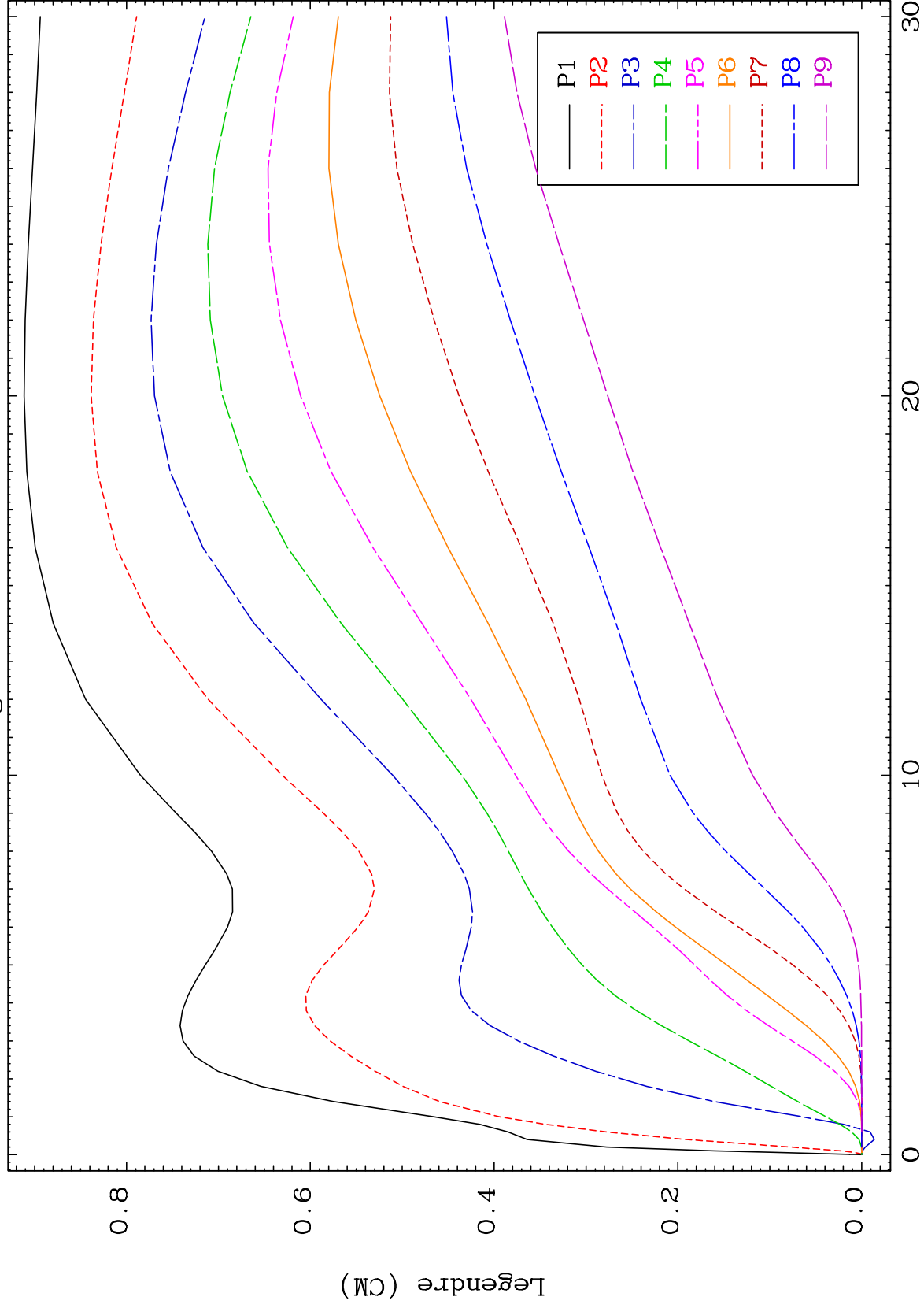
14



MAT 6122

Elastic Legendre Coefficients

61-Pm-138



16

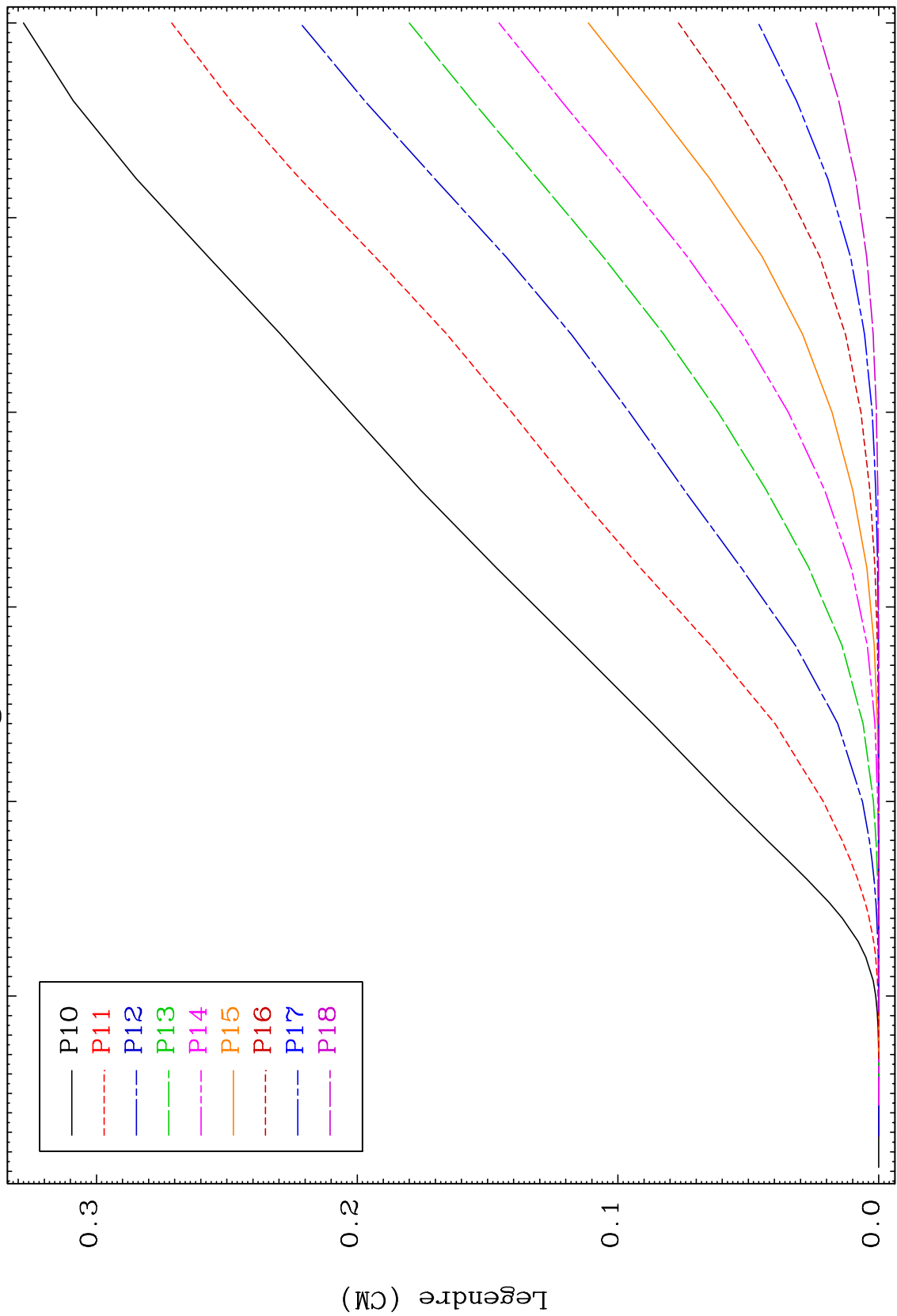
Incident Energy (MeV)

61-Pm-138

MAT 6122

Elastic Legendre Coefficients

61-Pm-138



17

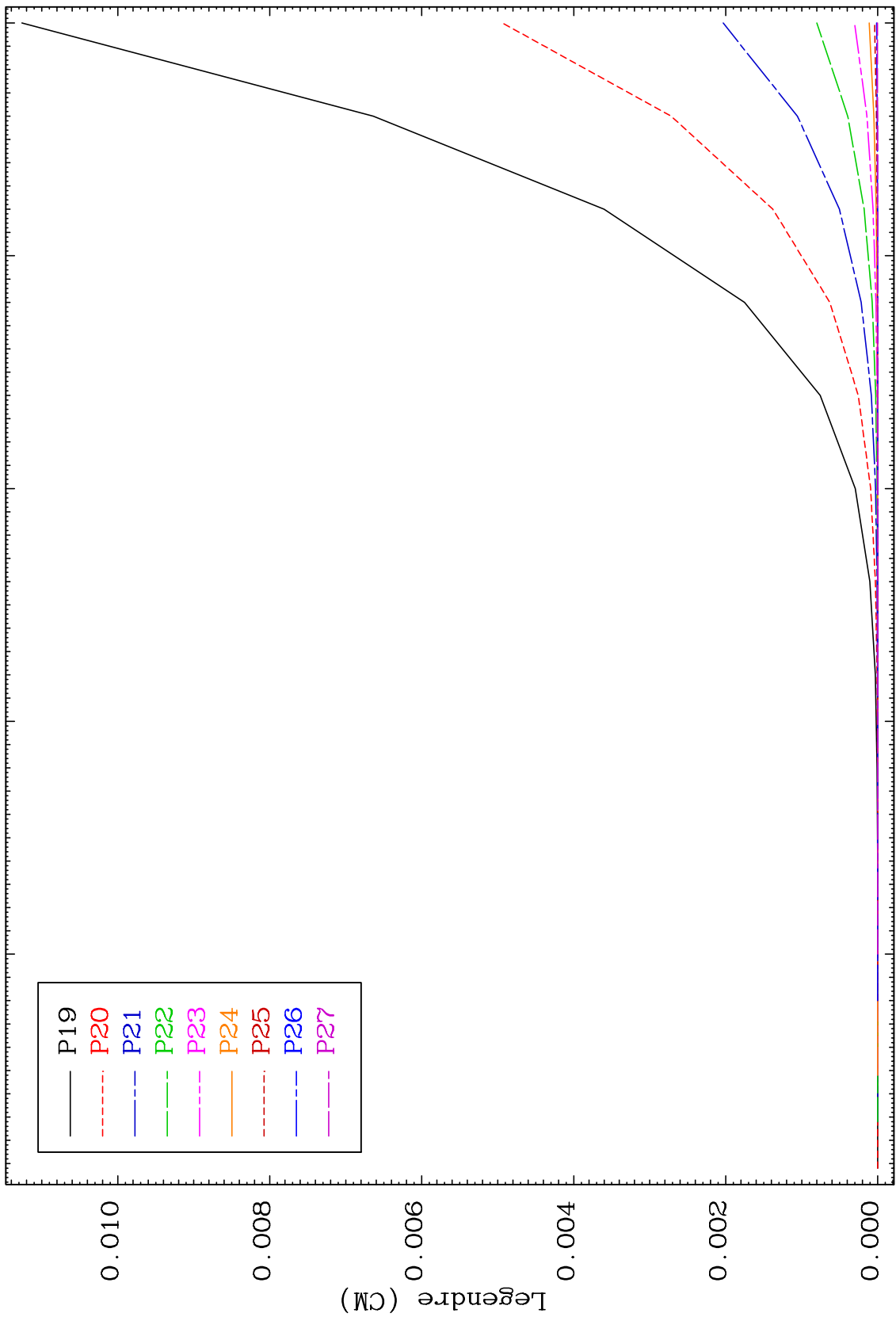
61-Pm-138

Incident Energy (MeV)

MAT 6122

Elastic Legendre Coefficients

61-Pm-138



18

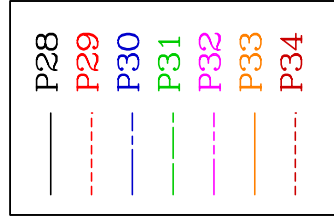
Incident Energy (MeV)

61-Pm-138

MAT 6122

Elastic
Legendre Coefficients

61-Pm-138



$\times 10^{-6}$

Legendre (CM)

1.0

0.8

0.6

0.4

0.2

0.0

15

20

25

30

10

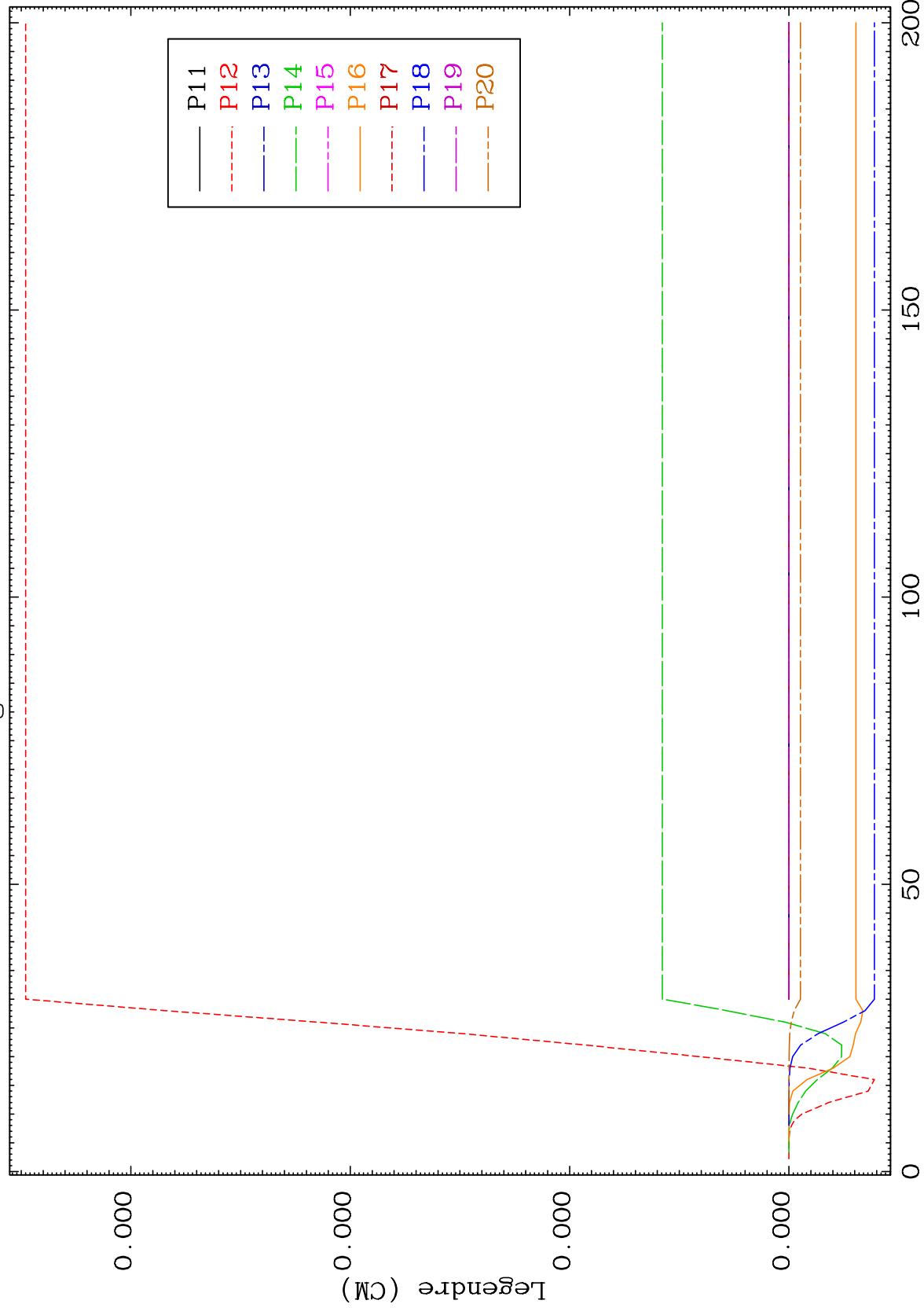
Incident Energy (MeV)

61-Pm-138

MAT 6122

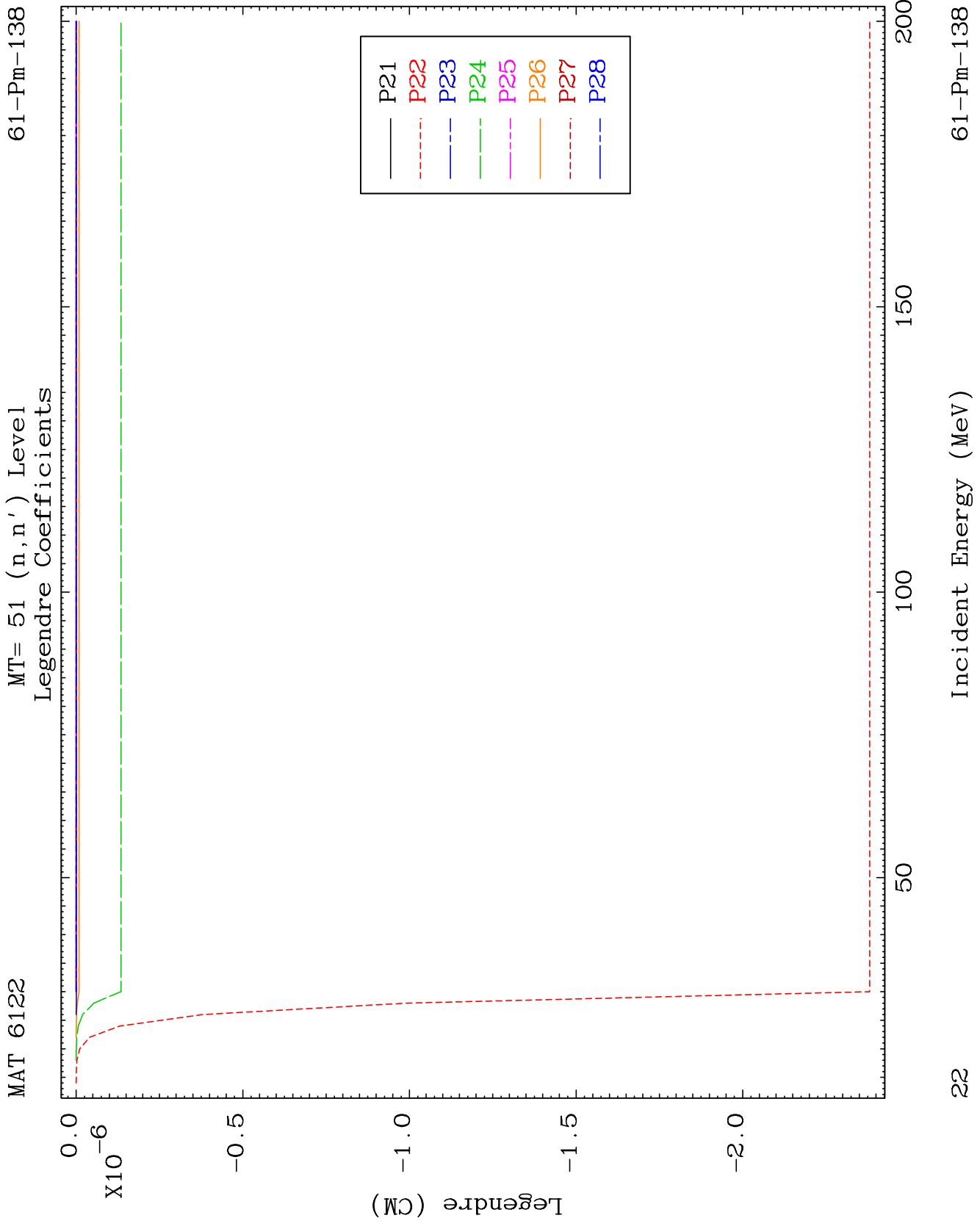
MT= 51 (n,n') Level
Legendre Coefficients

61-Pm-138



21

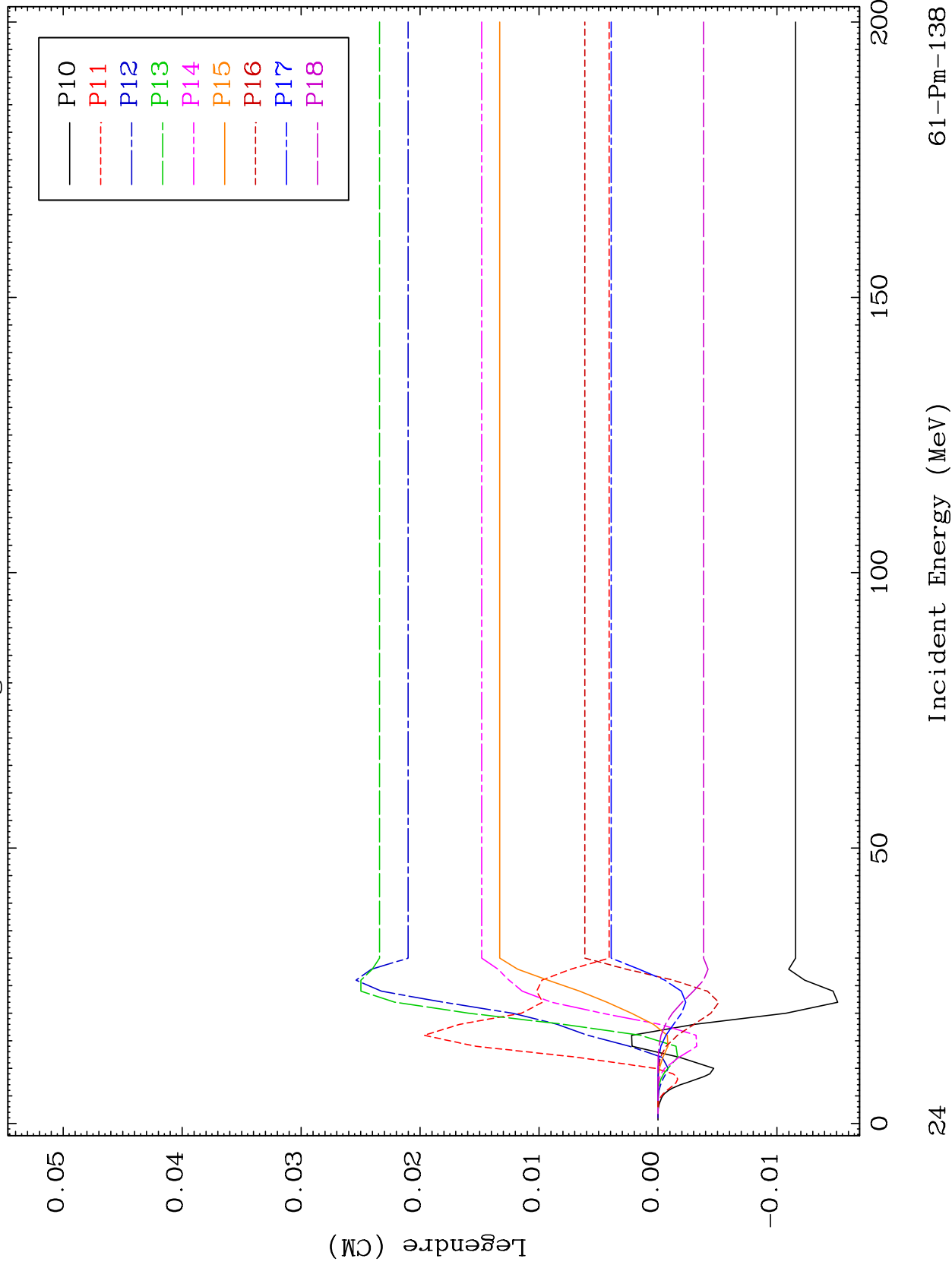
61-Pm-138



MAT 6122

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

61-Pm-138



61-Pm-138

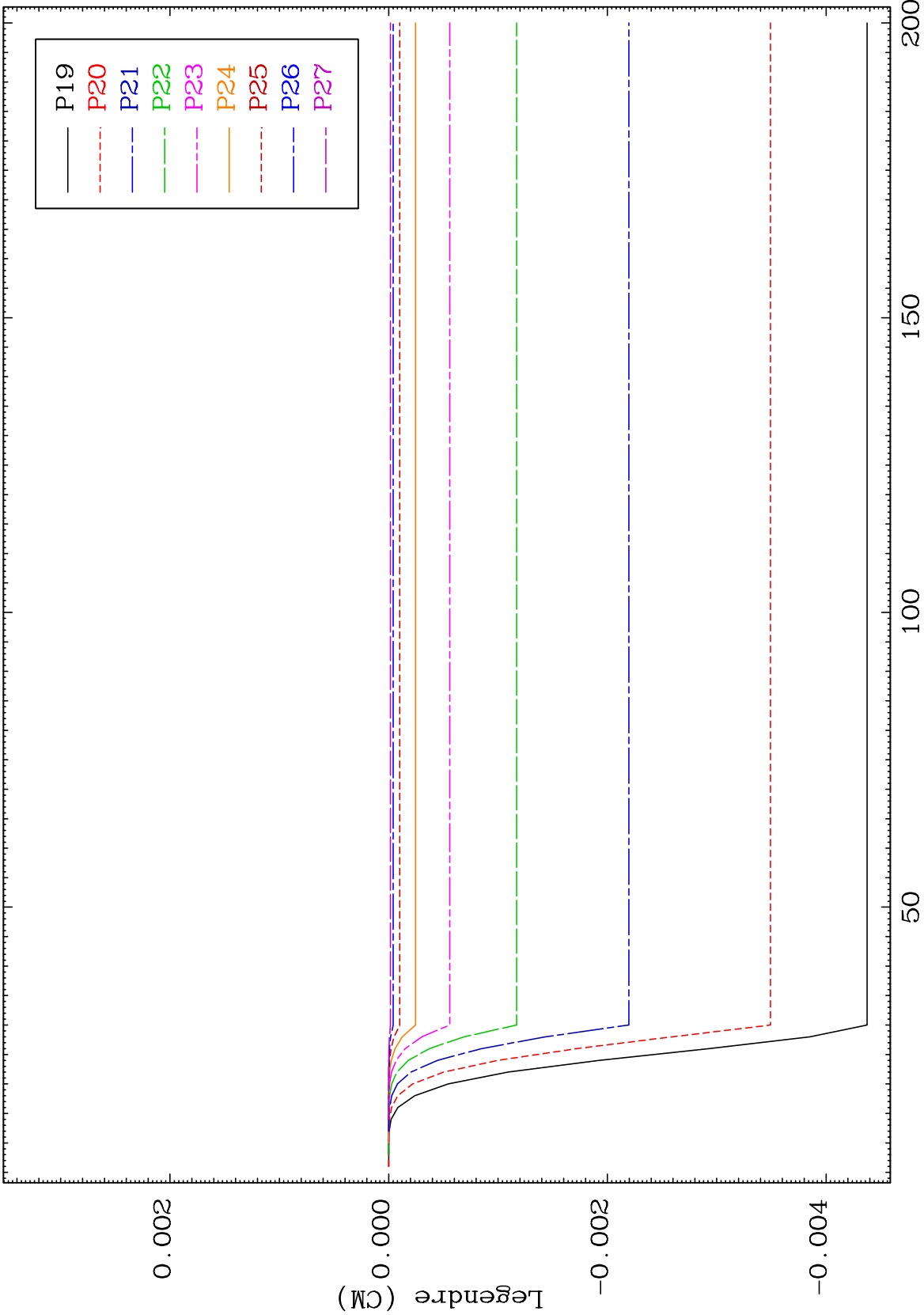
Incident Energy (MeV)

24

MAT 6122

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

61-Pm-138



25

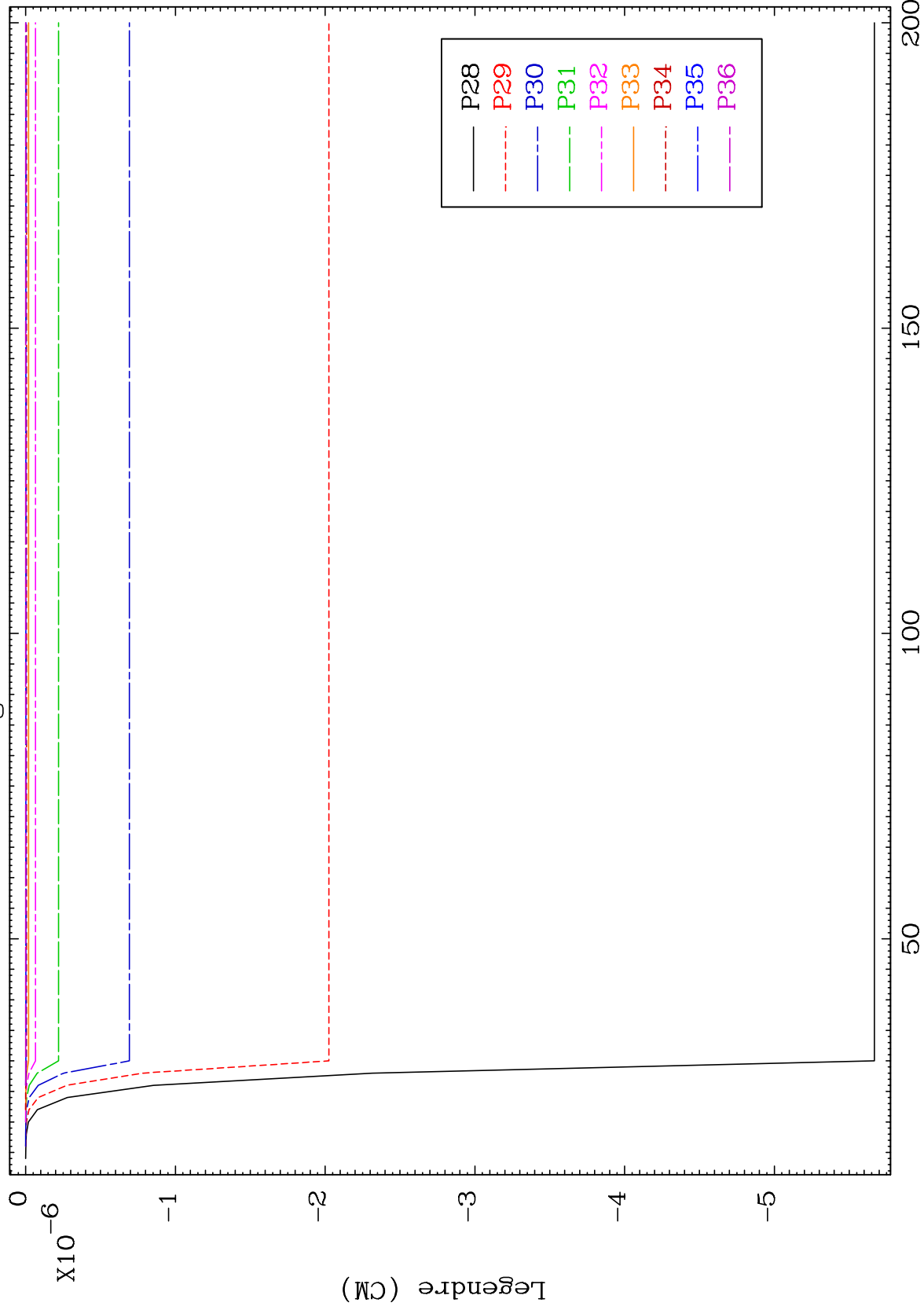
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



26

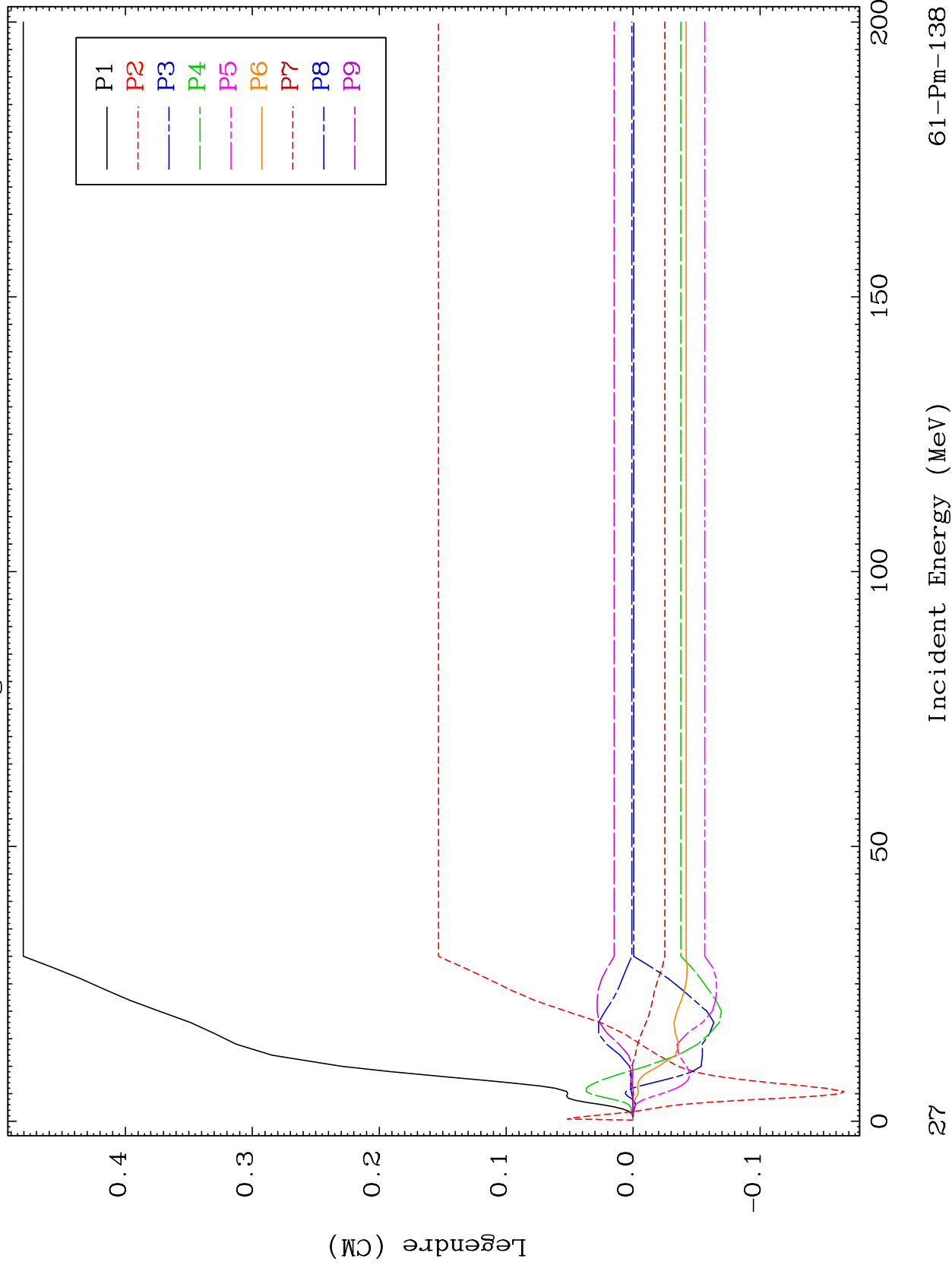
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



61-Pm-138

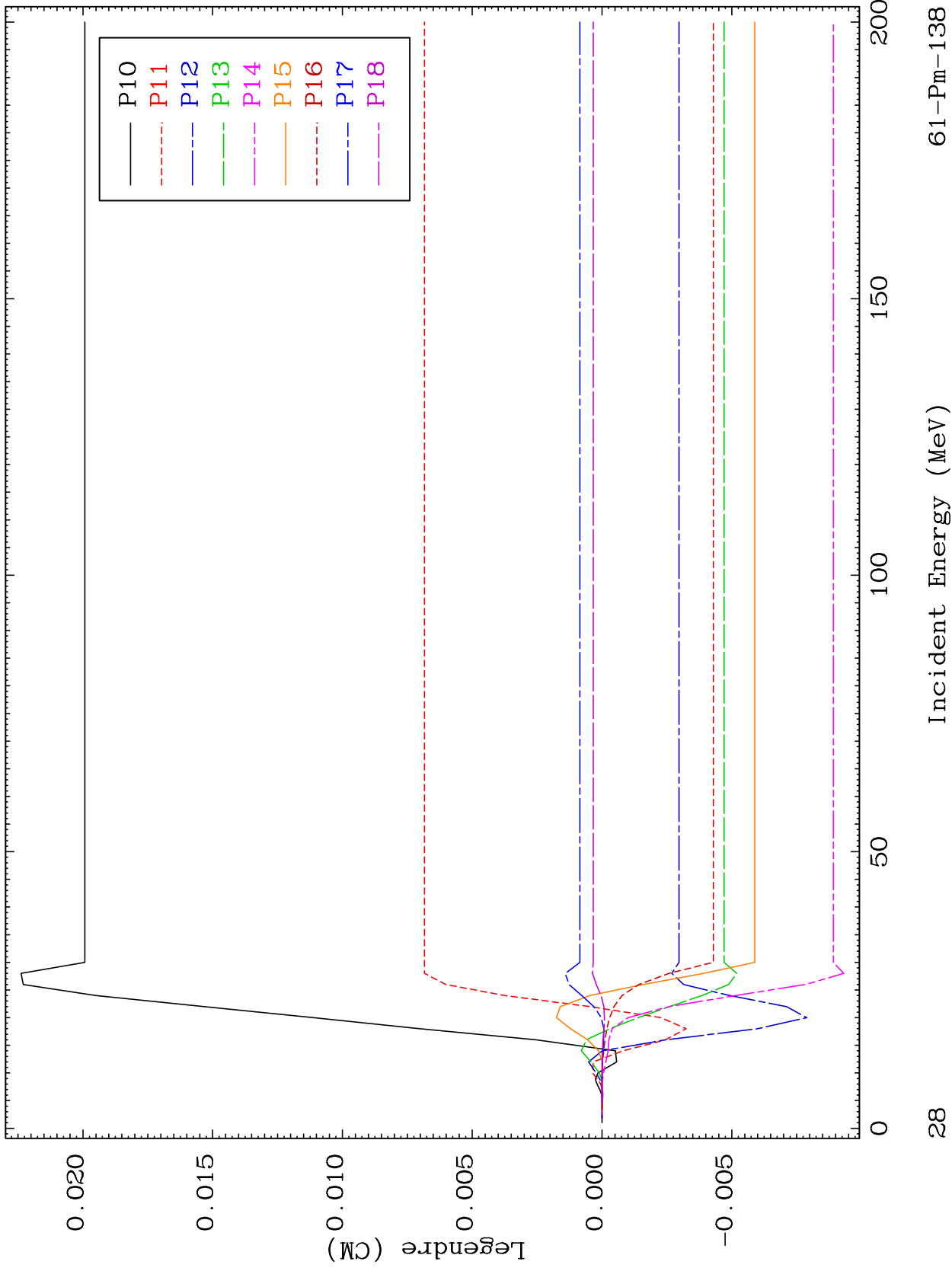
Incident Energy (MeV)

27

MAT 6122

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

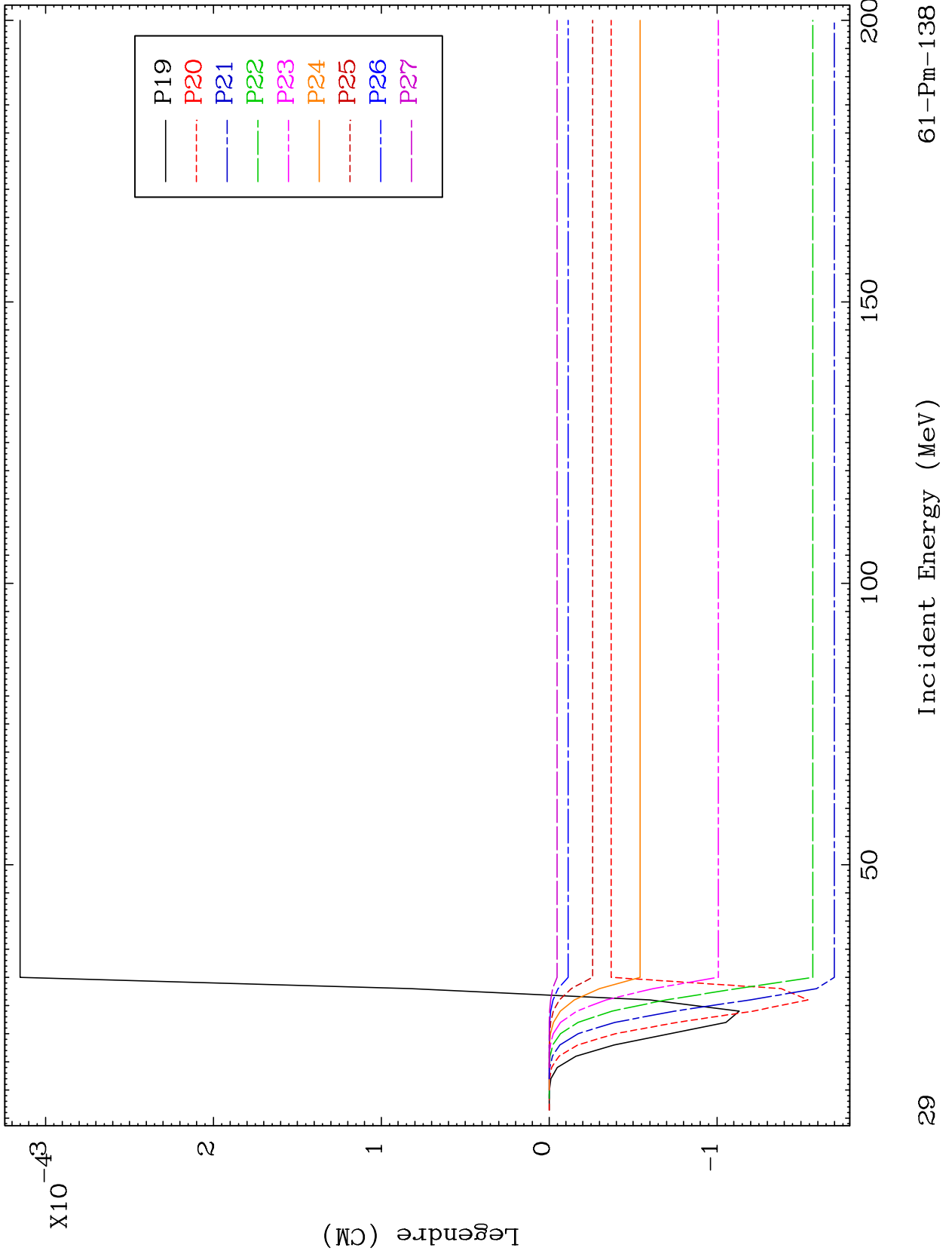
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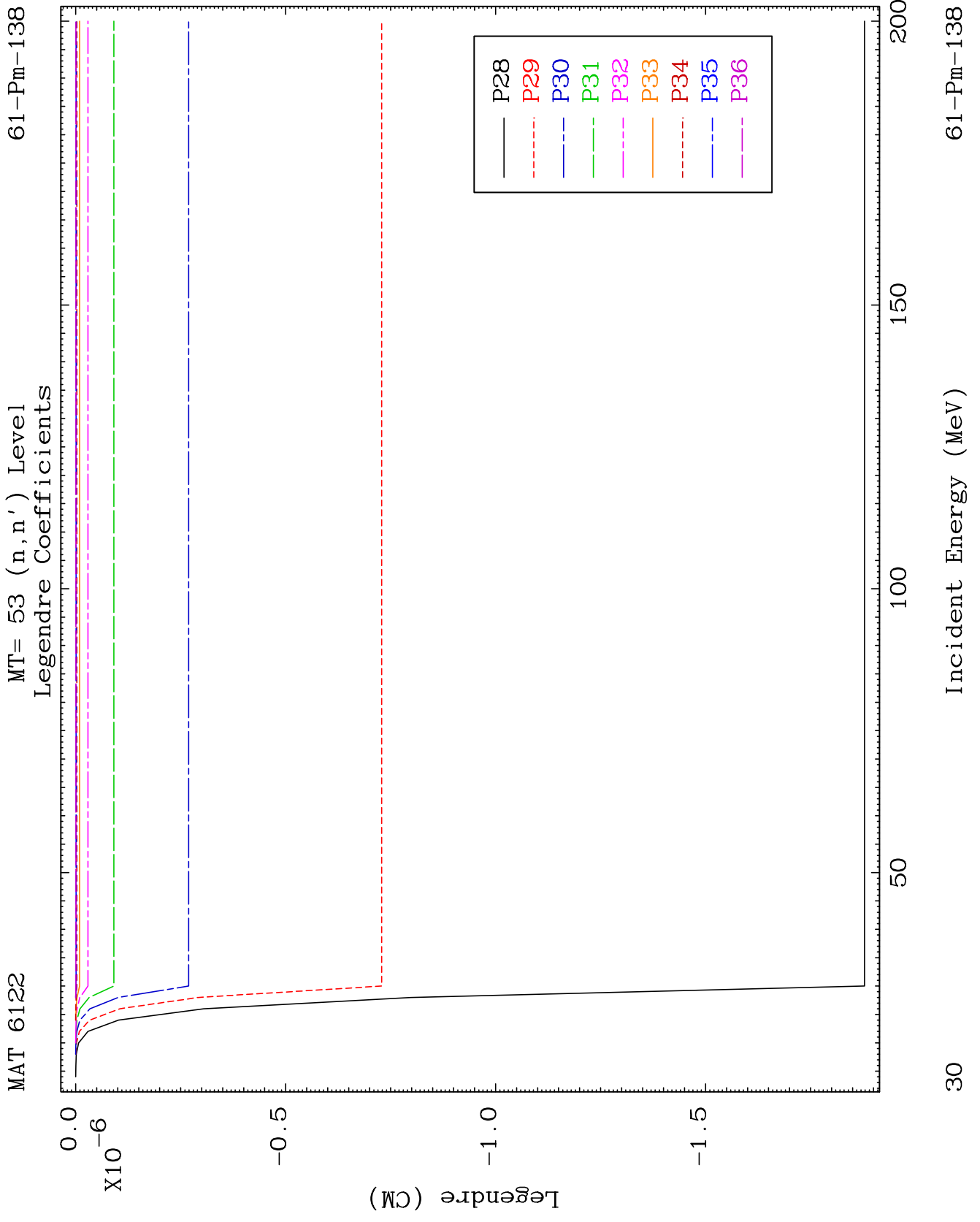


61-Pm-138

Incident Energy (MeV)

28

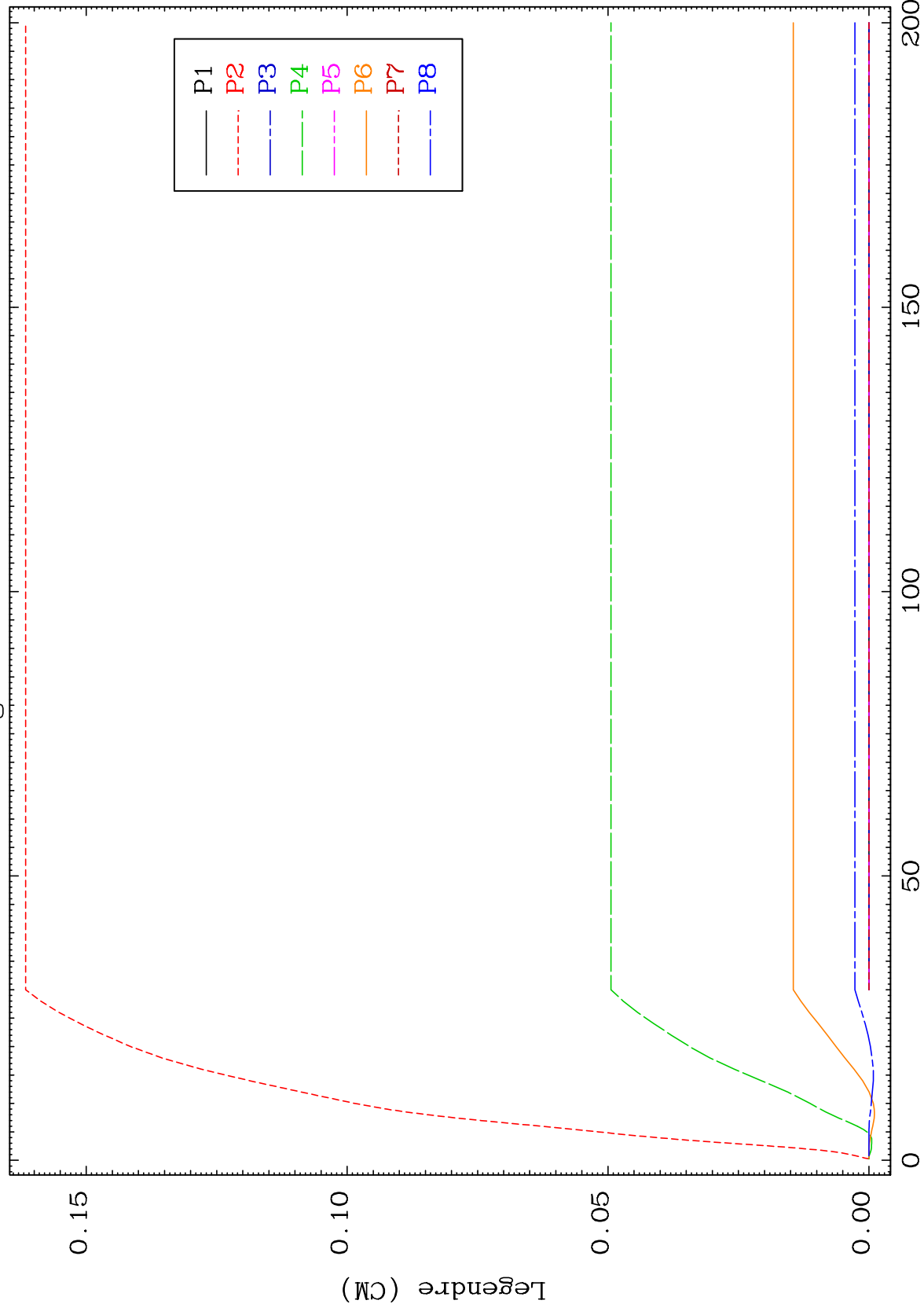




MAT 6122

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

61-Pm-138



31

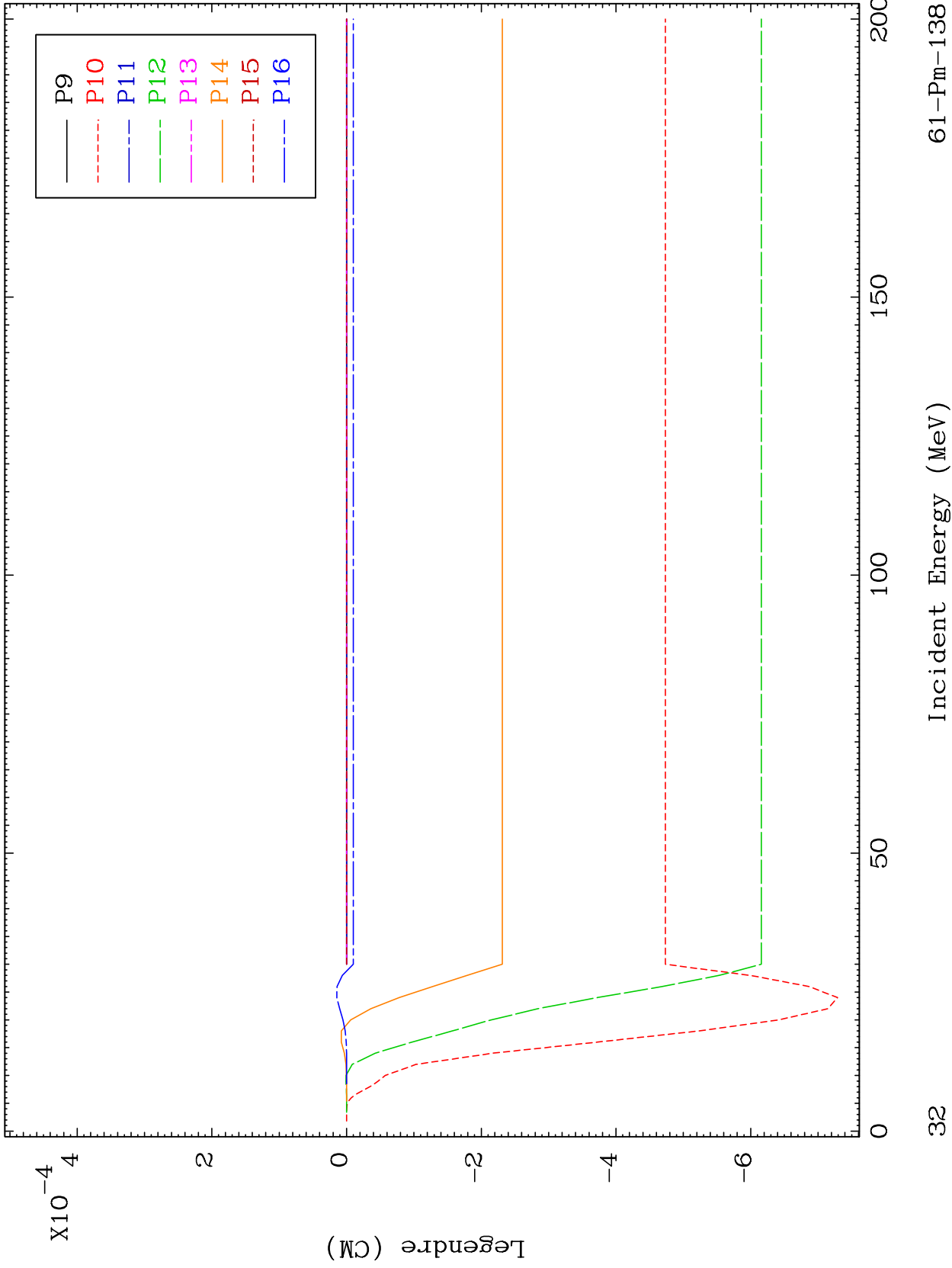
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

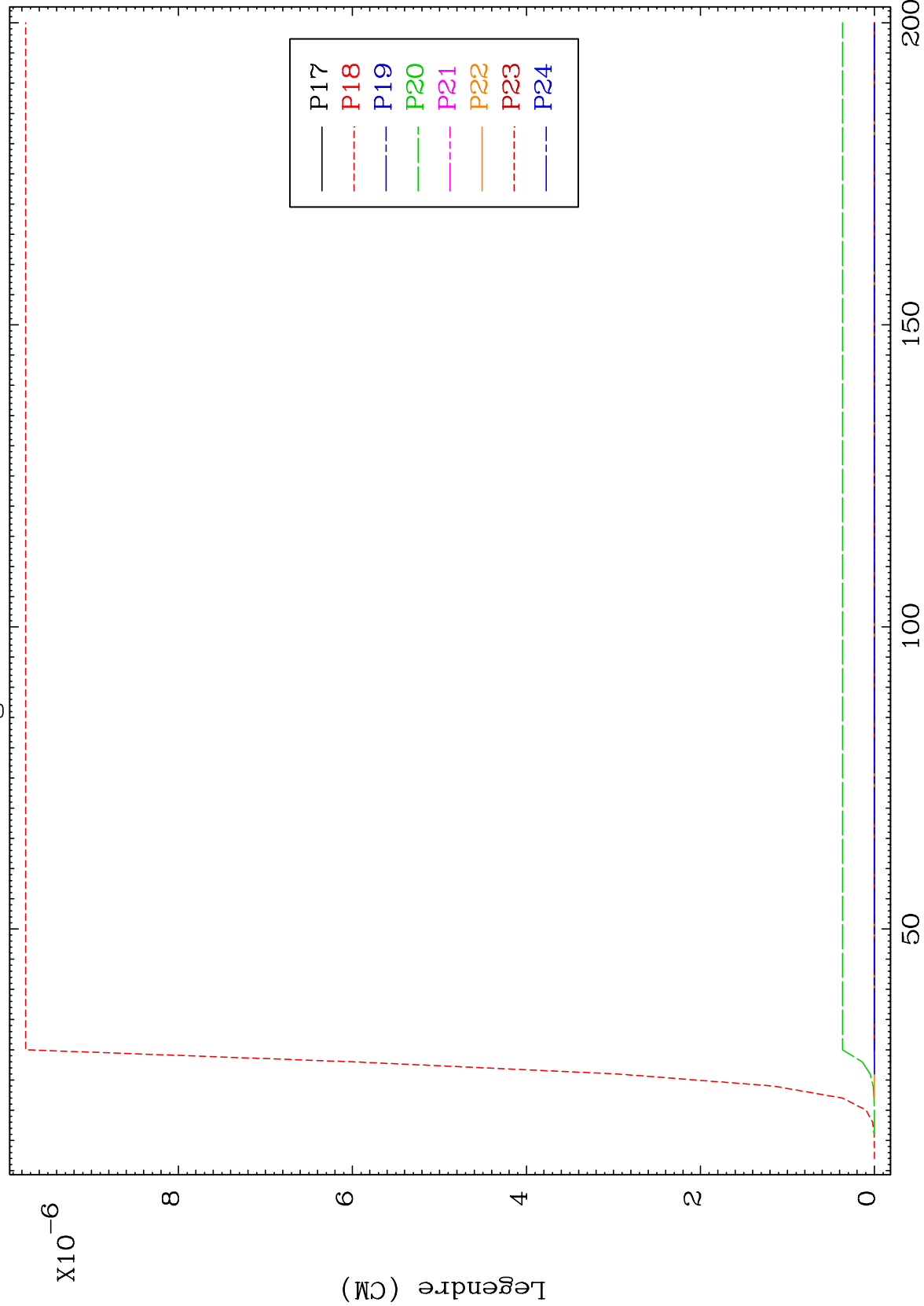
61-Pm-138



MAT 61222

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

61-Pm-138



33

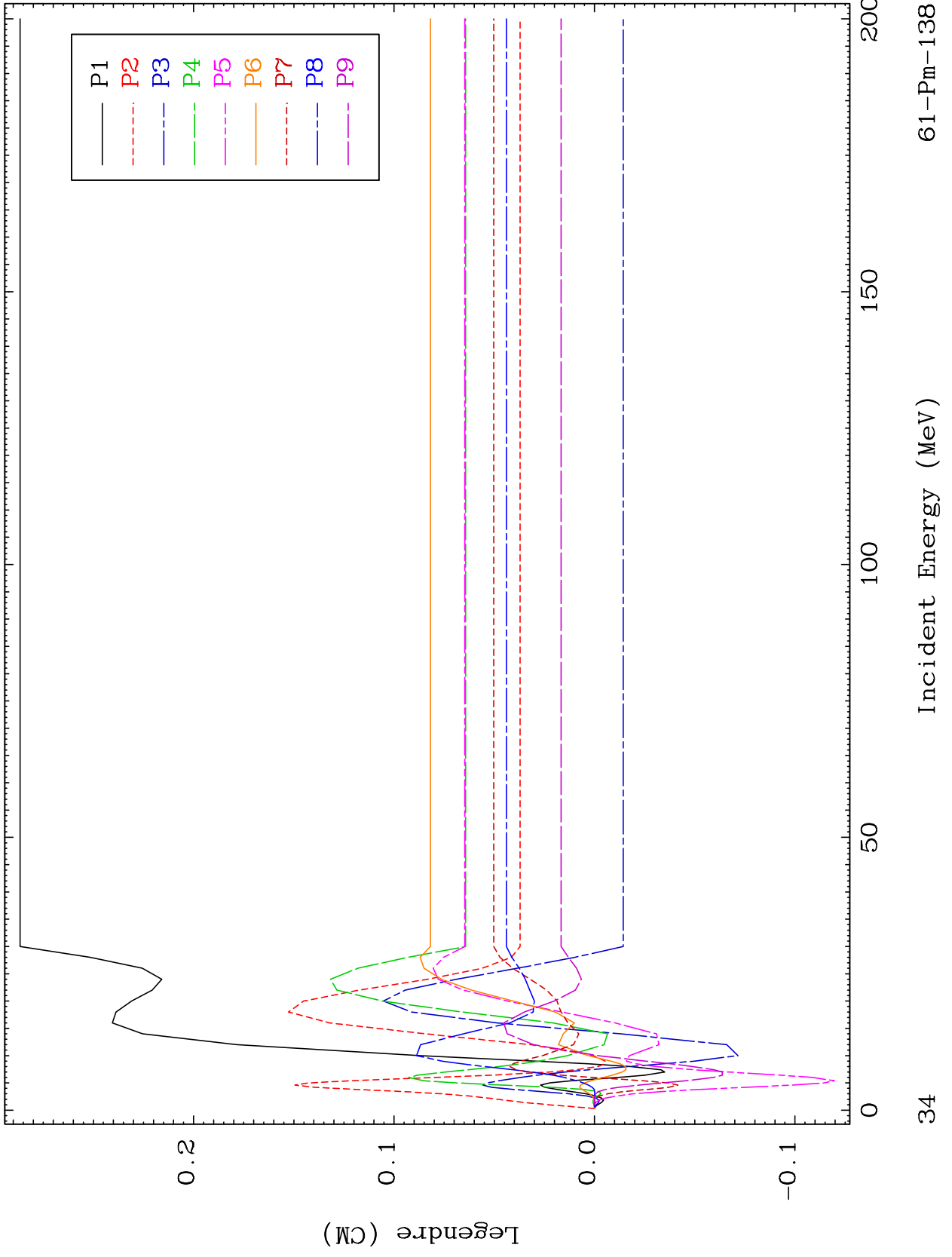
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



61-Pm-138

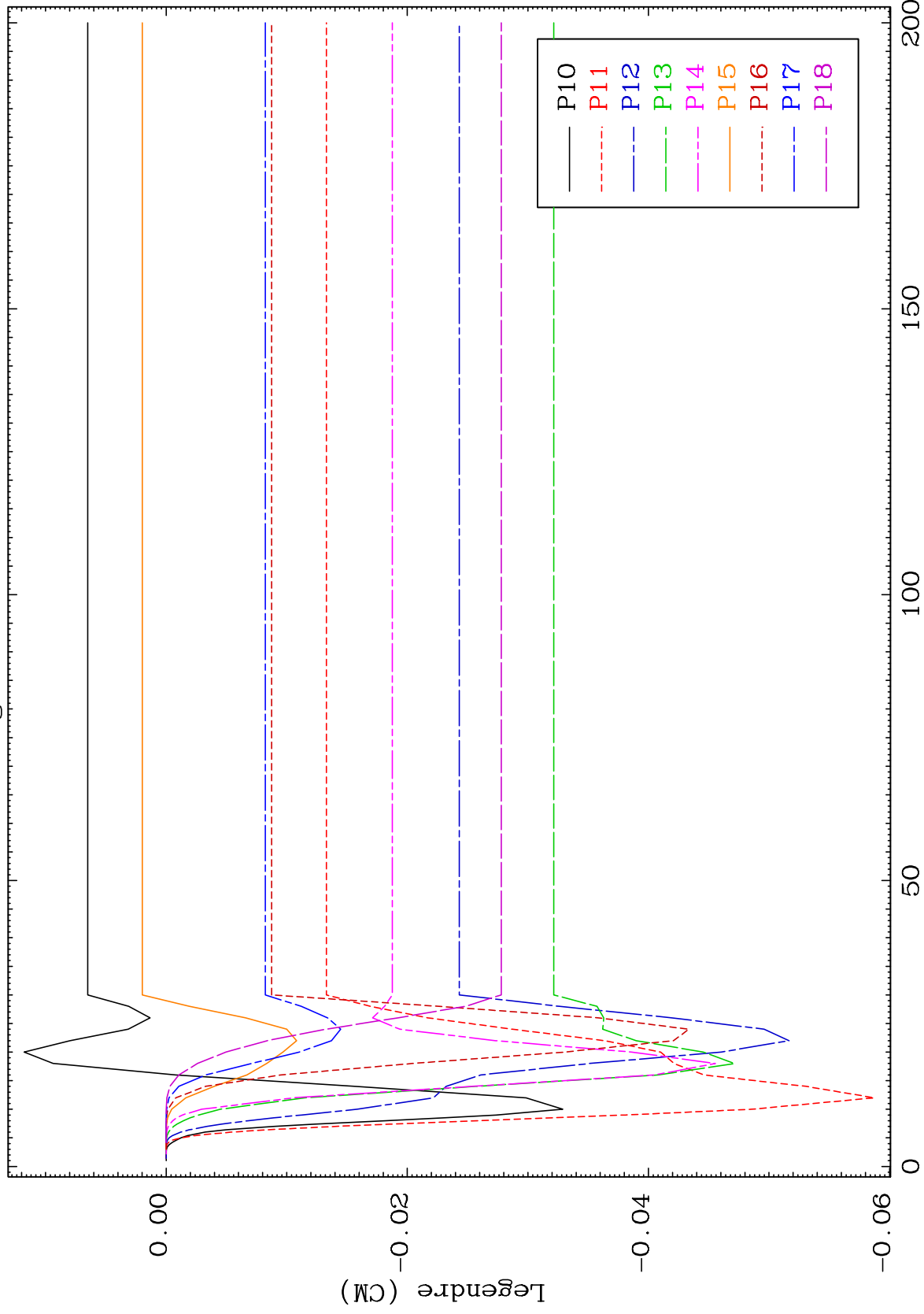
Incident Energy (MeV)

34

MAT 6122

61-Pm-138

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



35

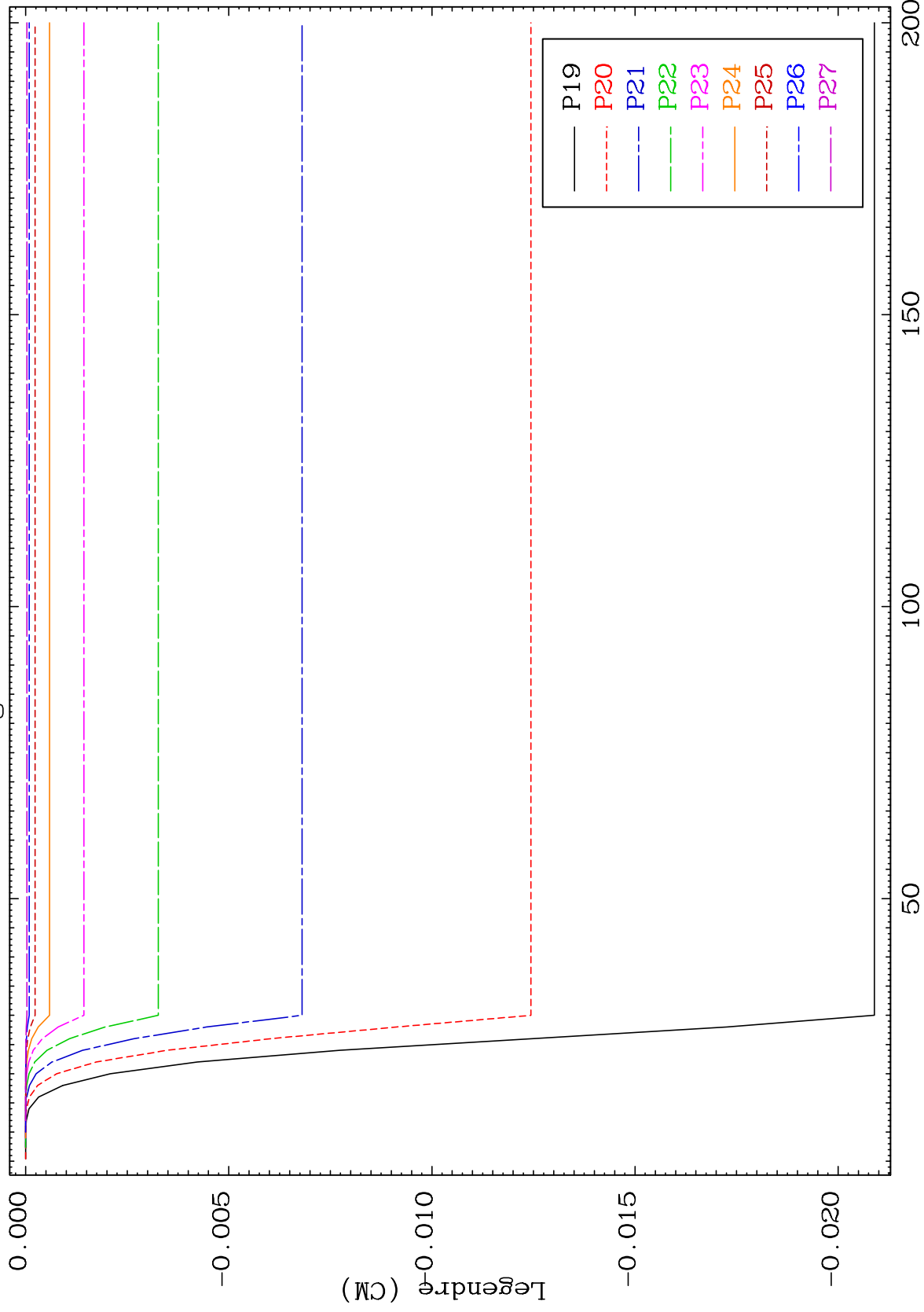
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



36

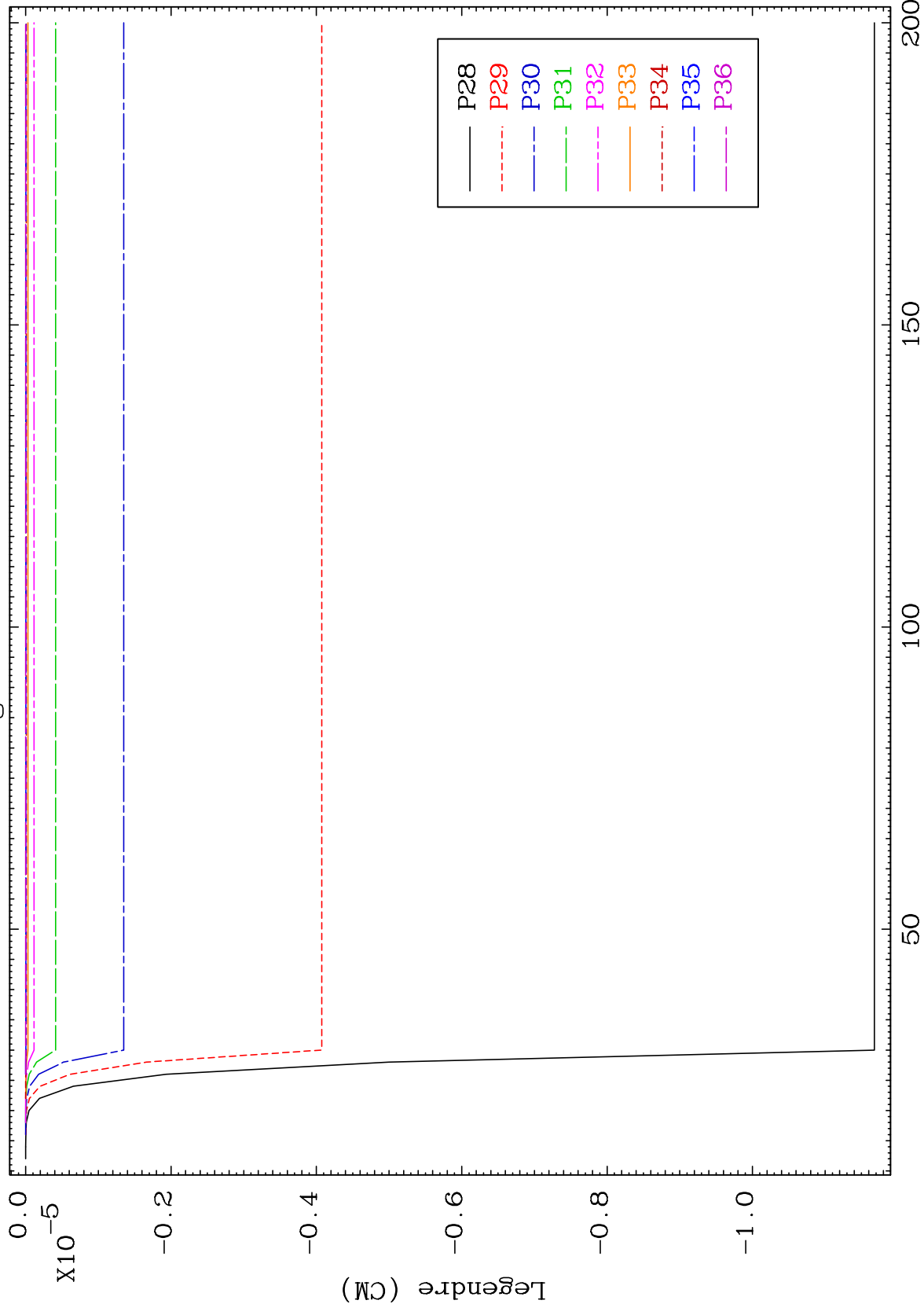
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



37

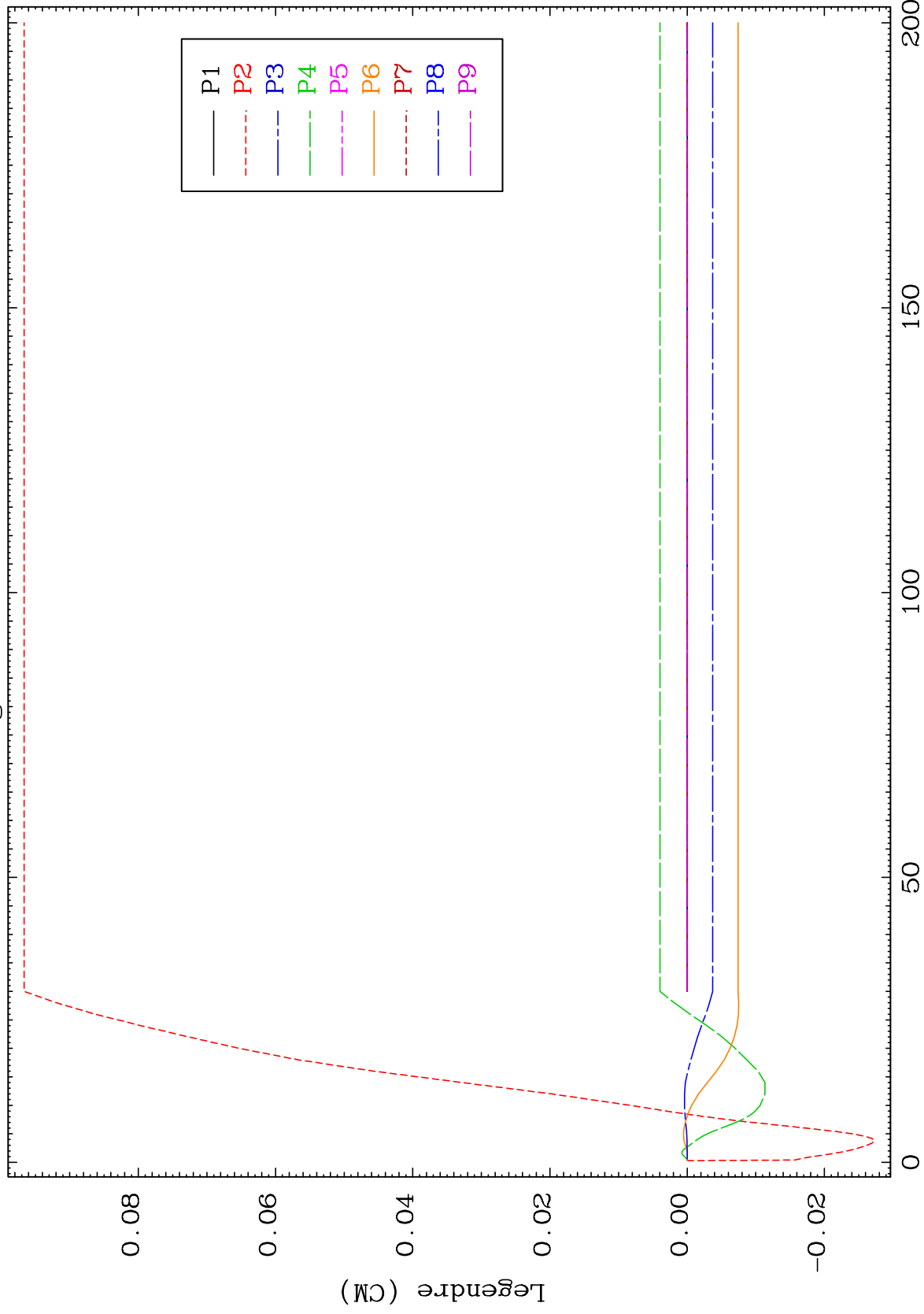
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



61-Pm-138

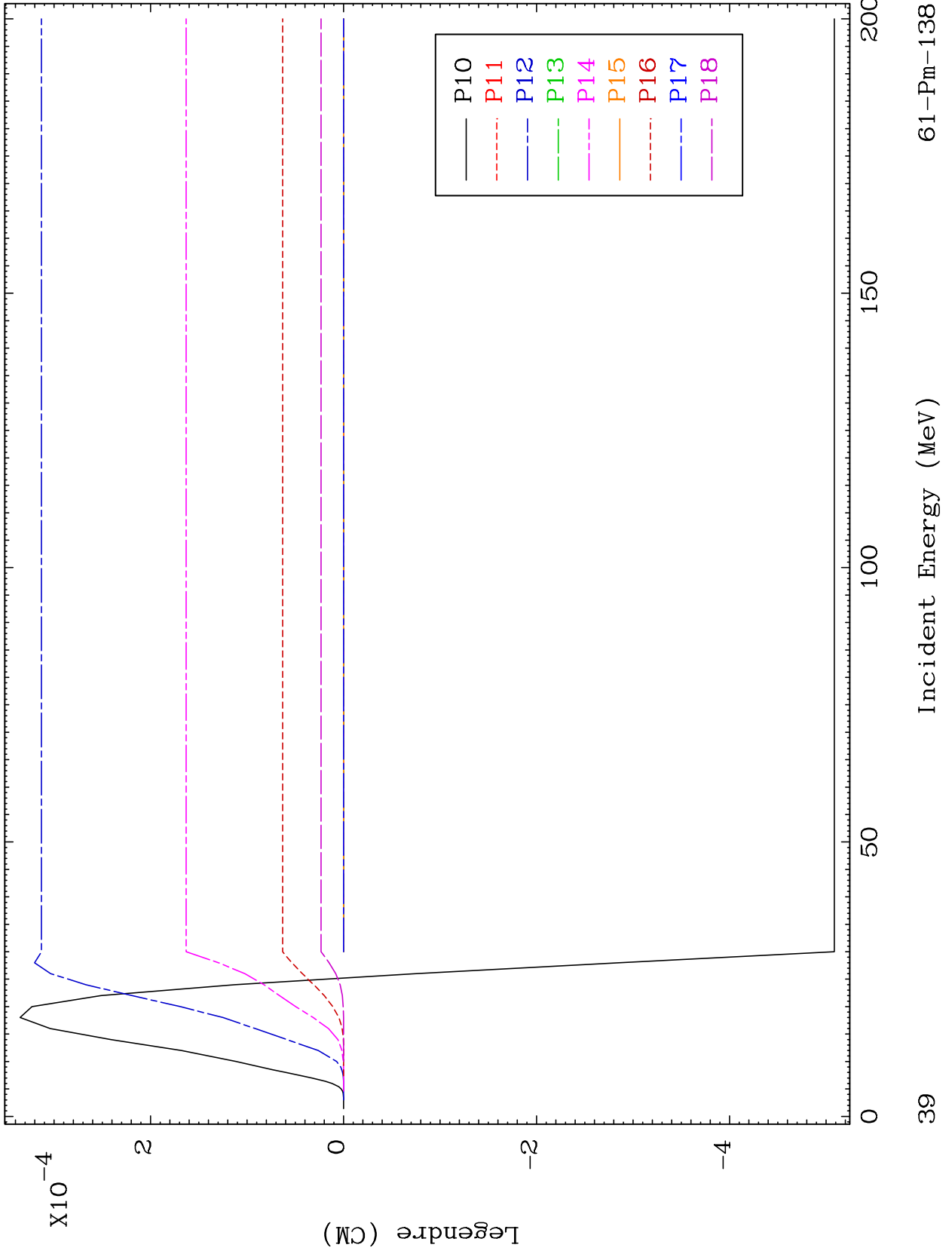
Incident Energy (MeV)

38

MAT 61222

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

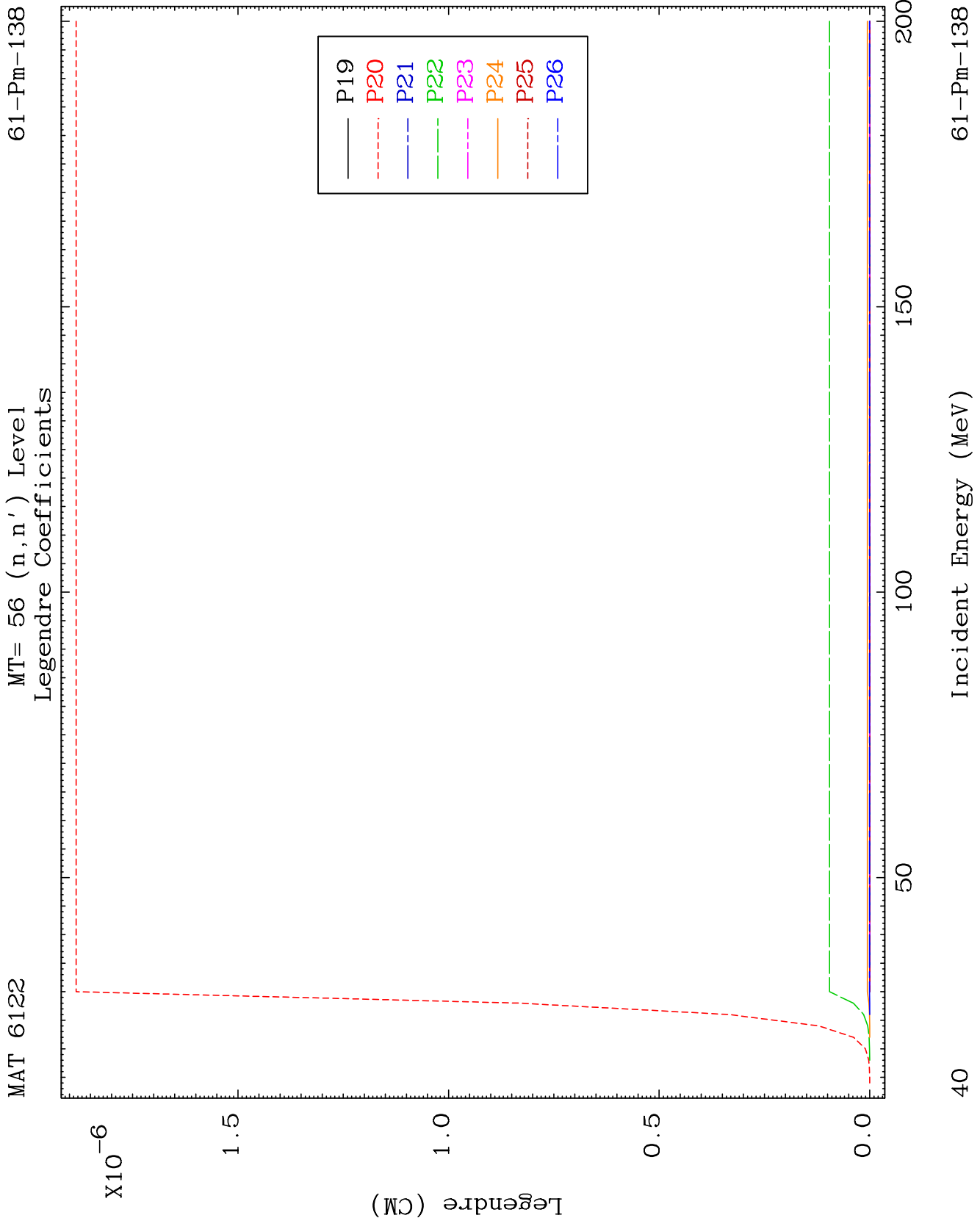
61-Pm-138



39

Incident Energy (MeV)

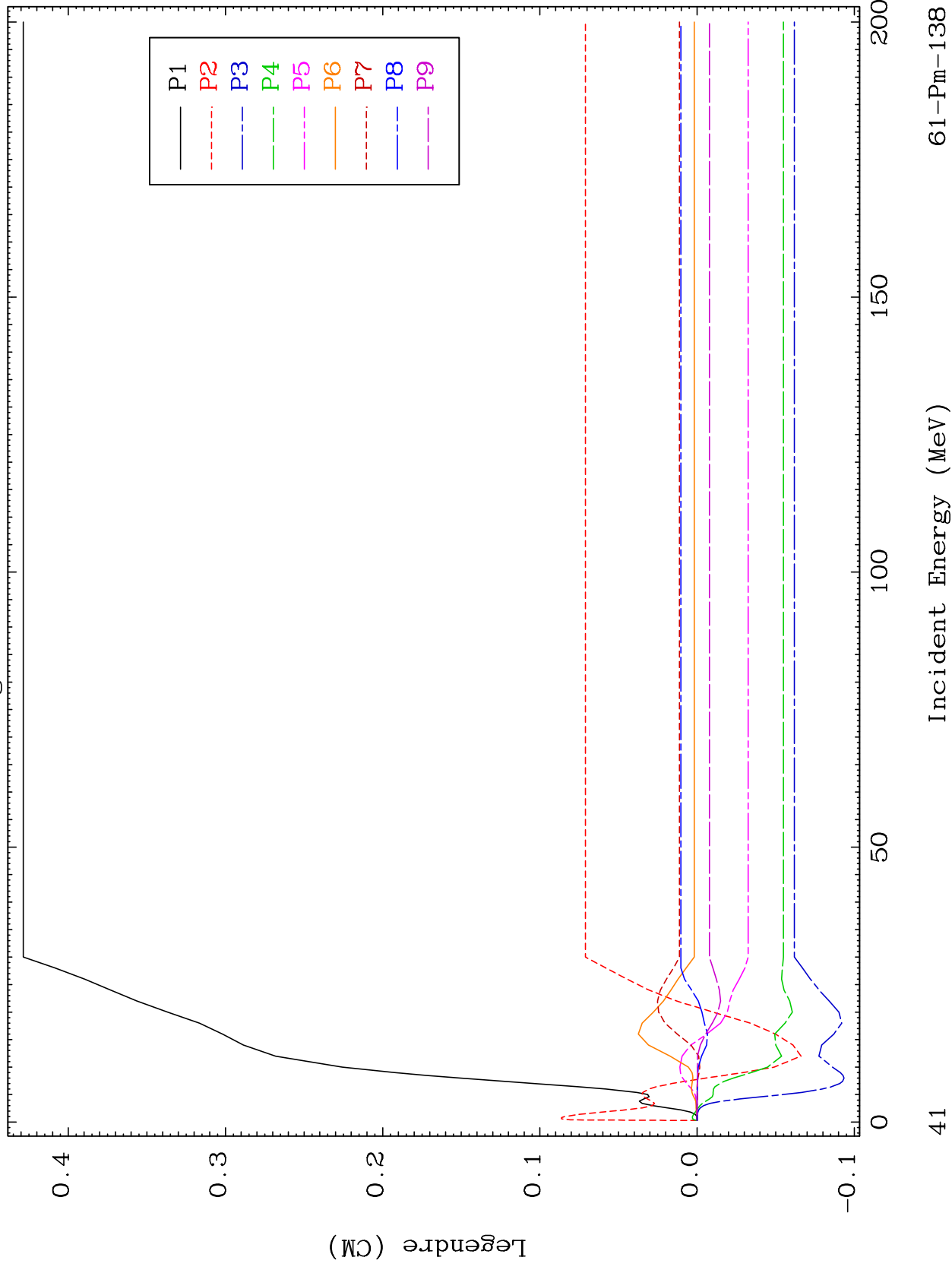
61-Pm-138



MAT 6122

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

61-Pm-138



61-Pm-138

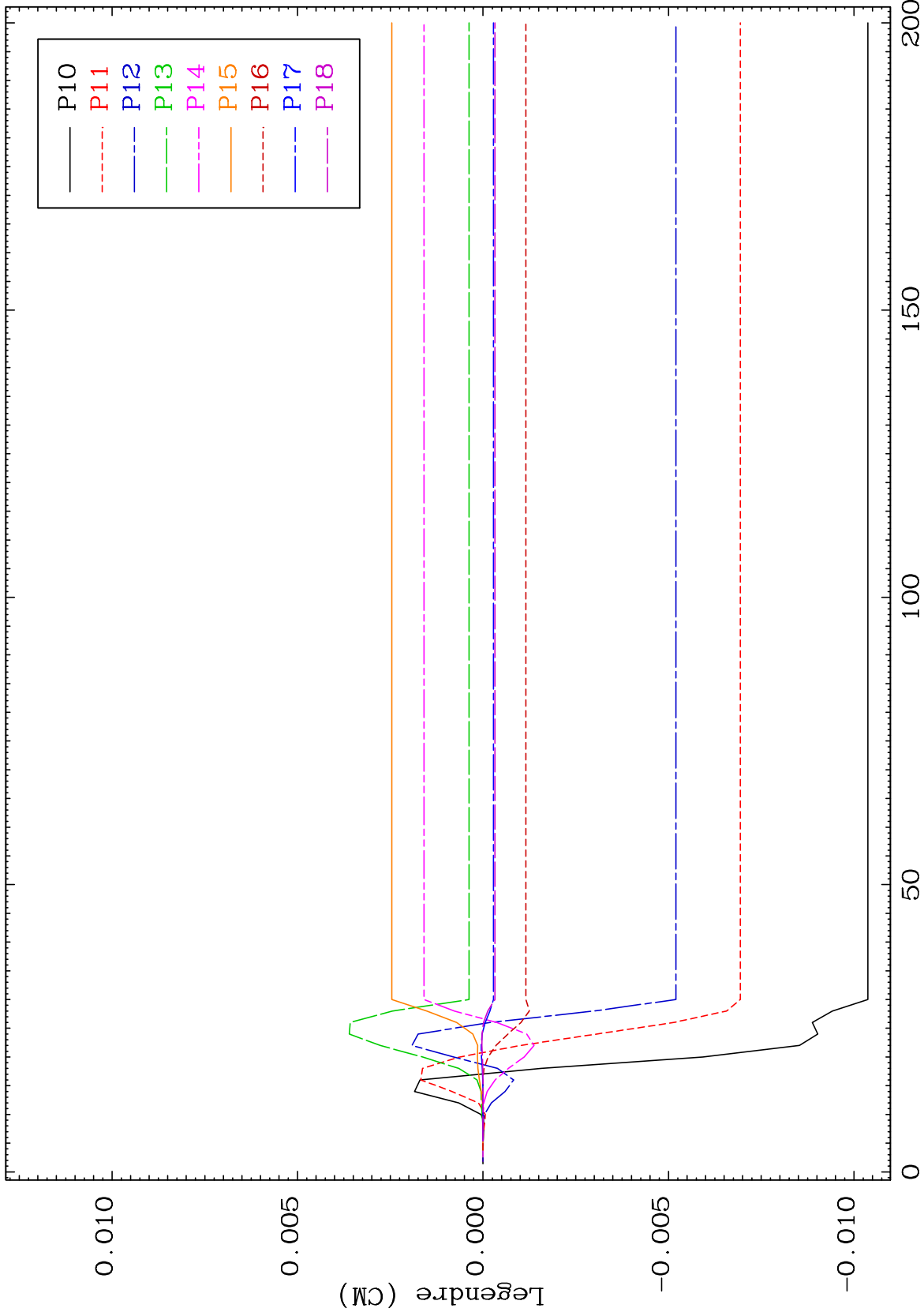
Incident Energy (MeV)

41

MAT 6122

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

61-Pm-138



42

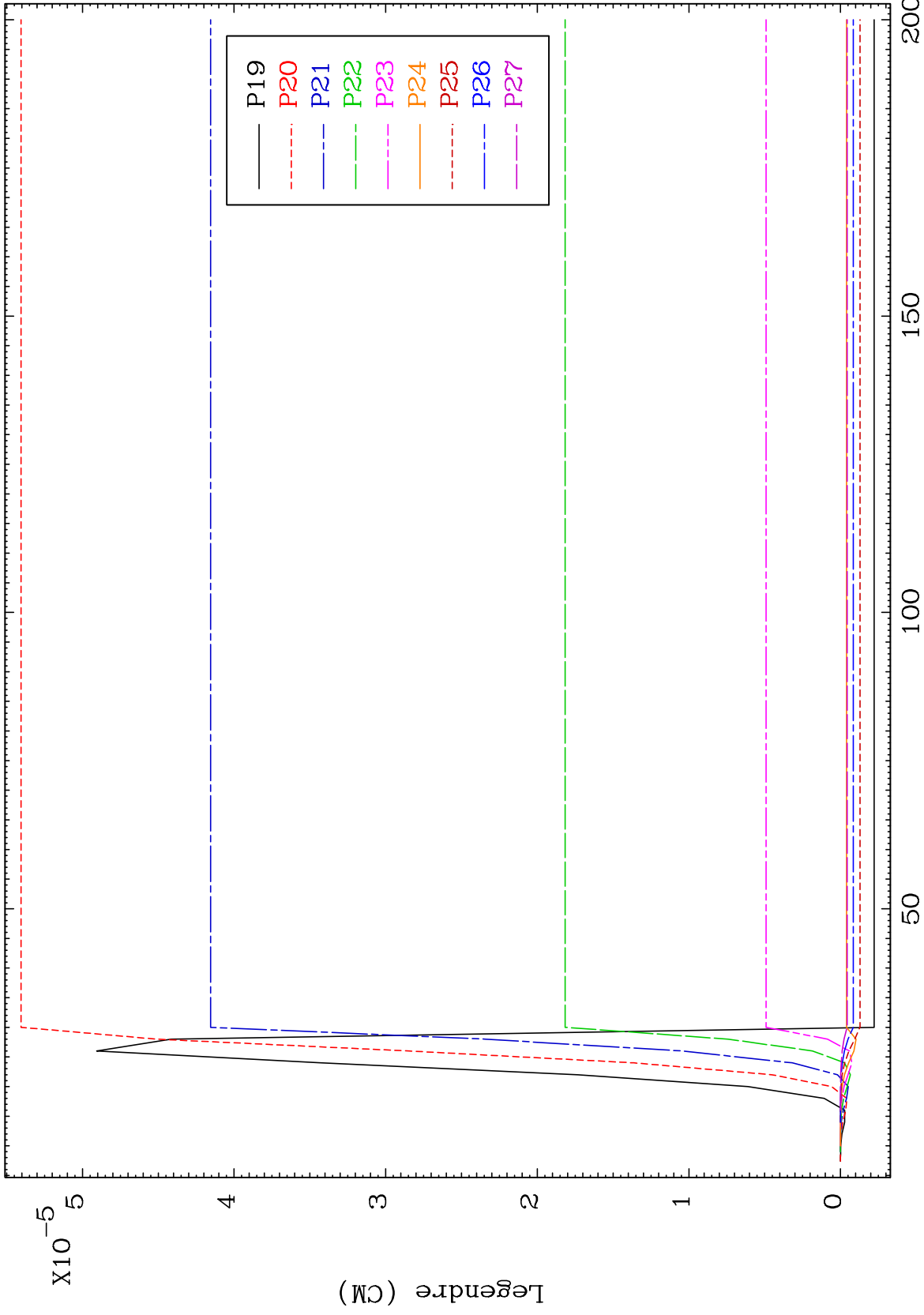
Incident Energy (MeV)

61-Pm-138

MAT 61222

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

61-Pm-138



43

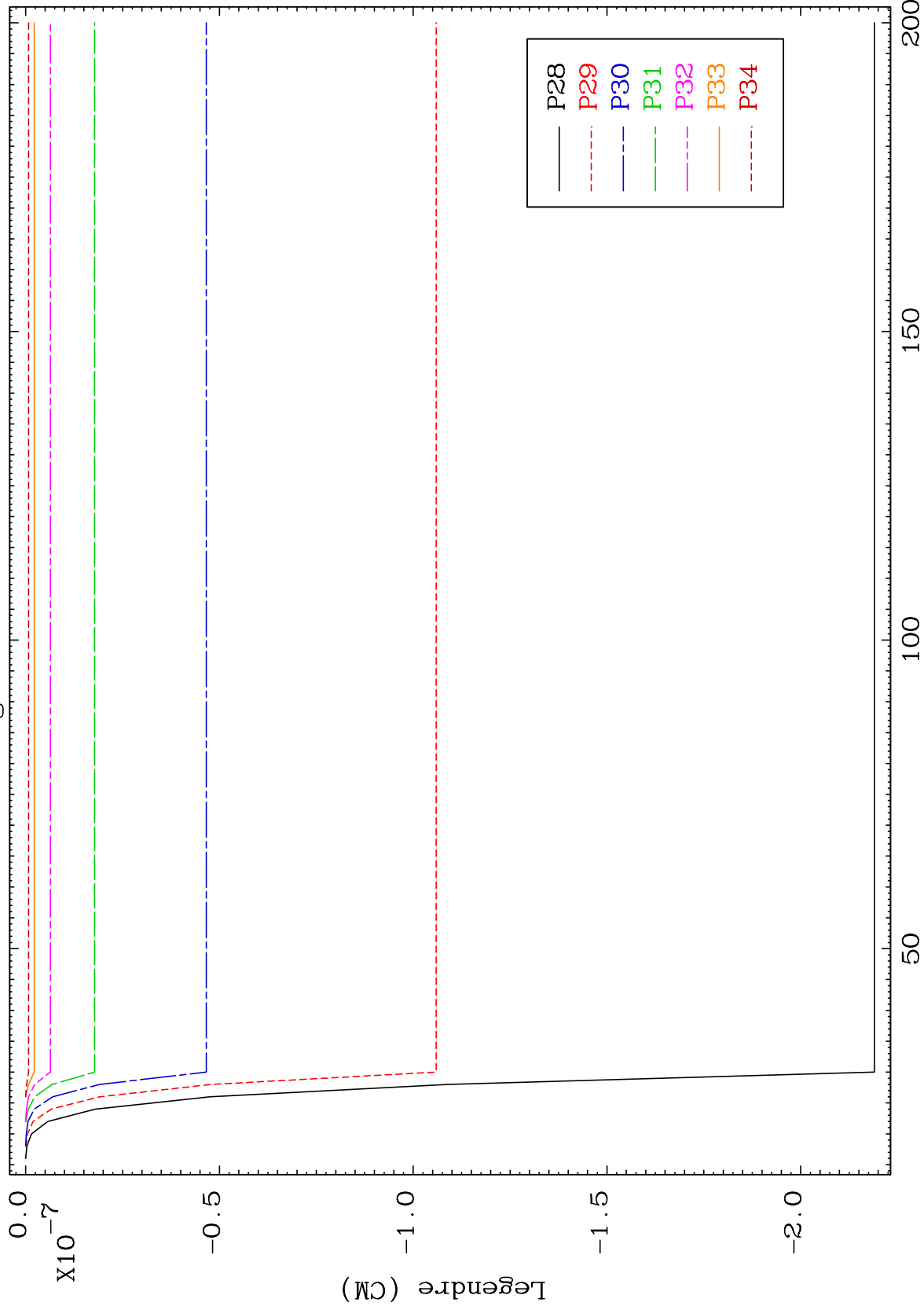
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MAT 6122

MT= 57 (n,n') Level

61-Pm-138

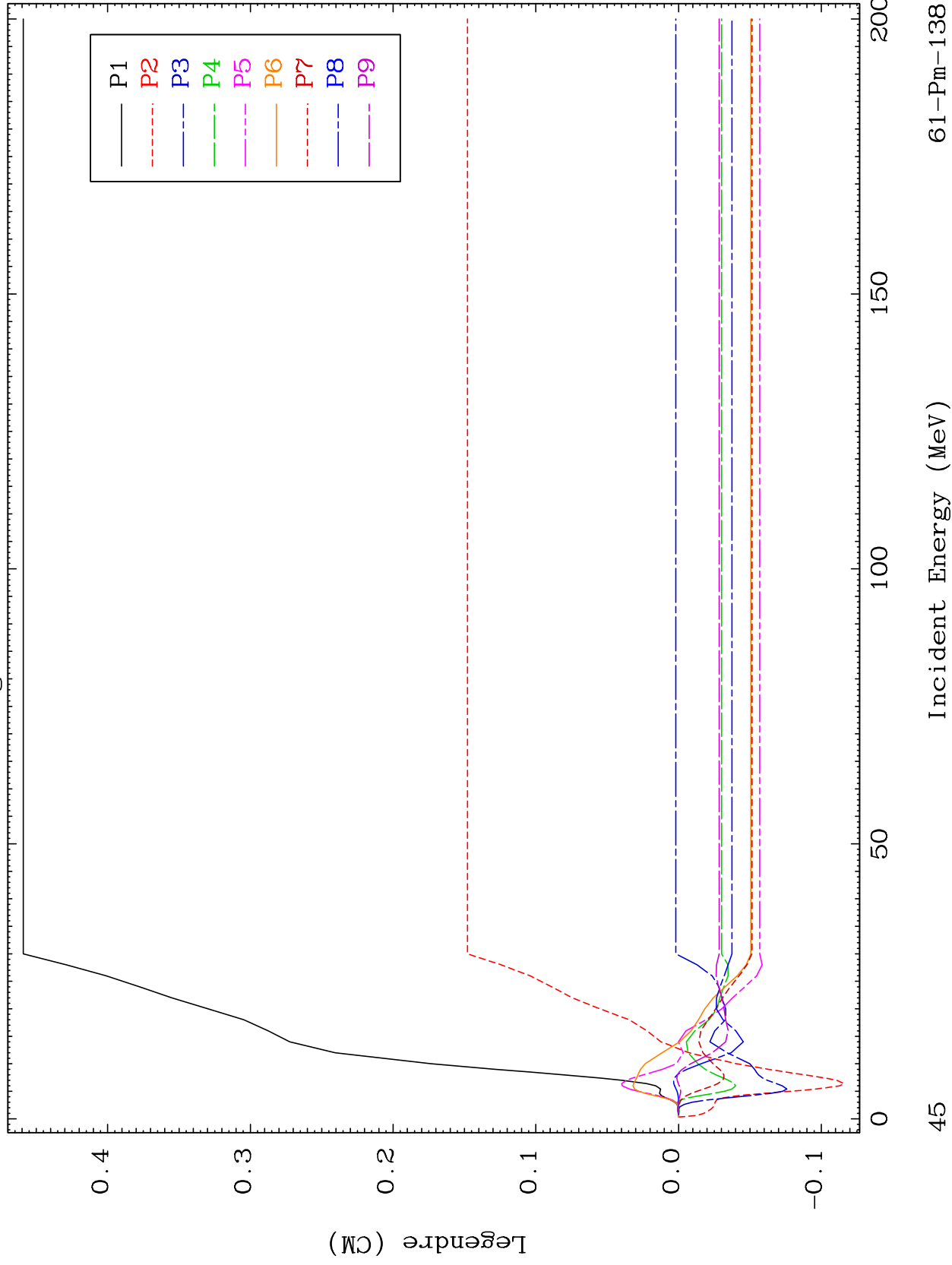
Legendre Coefficients



MAT 6122

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

61-Pm-138



61-Pm-138

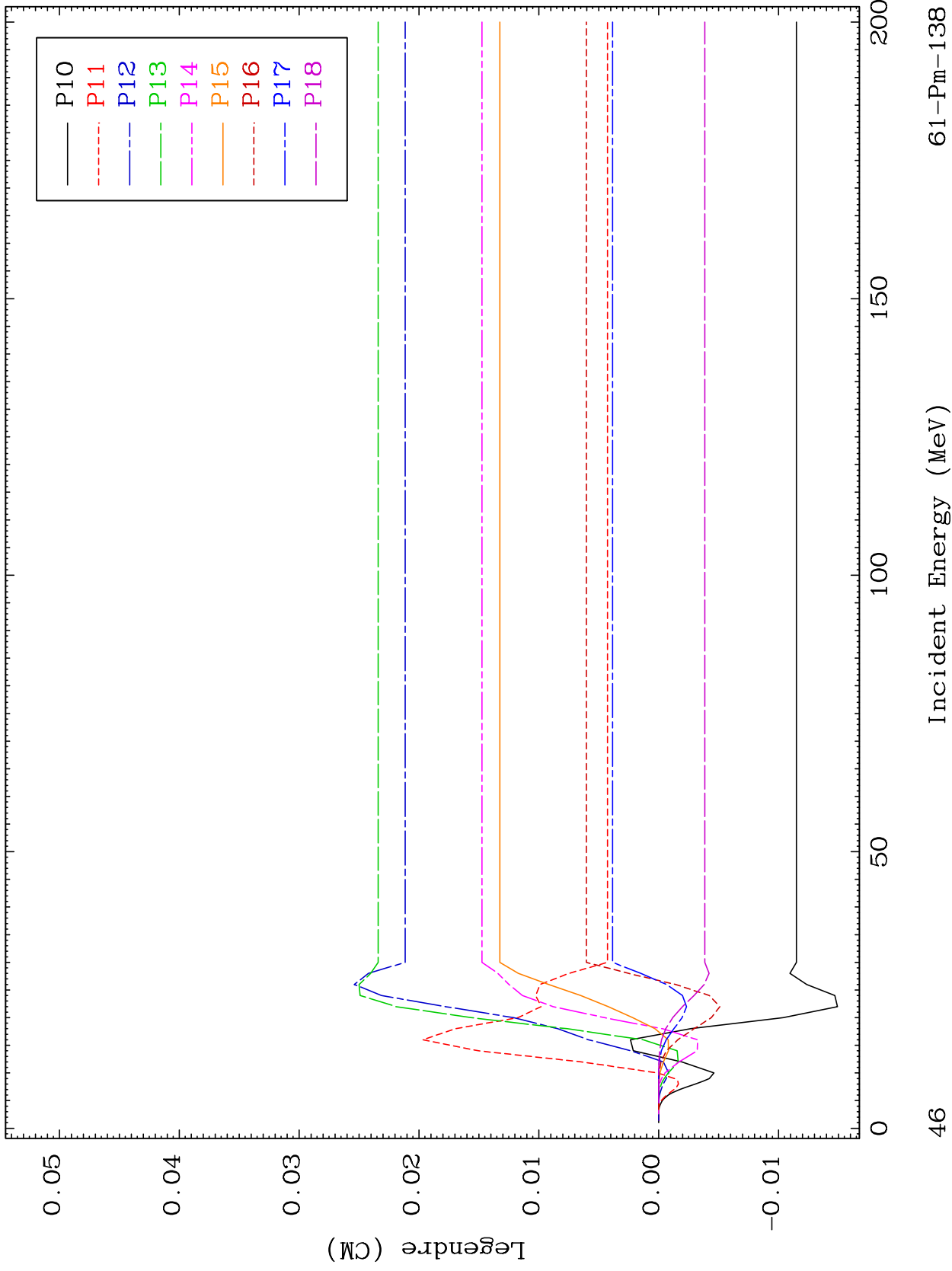
Incident Energy (MeV)

45

MAT 6122

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

61-Pm-138



61-Pm-138

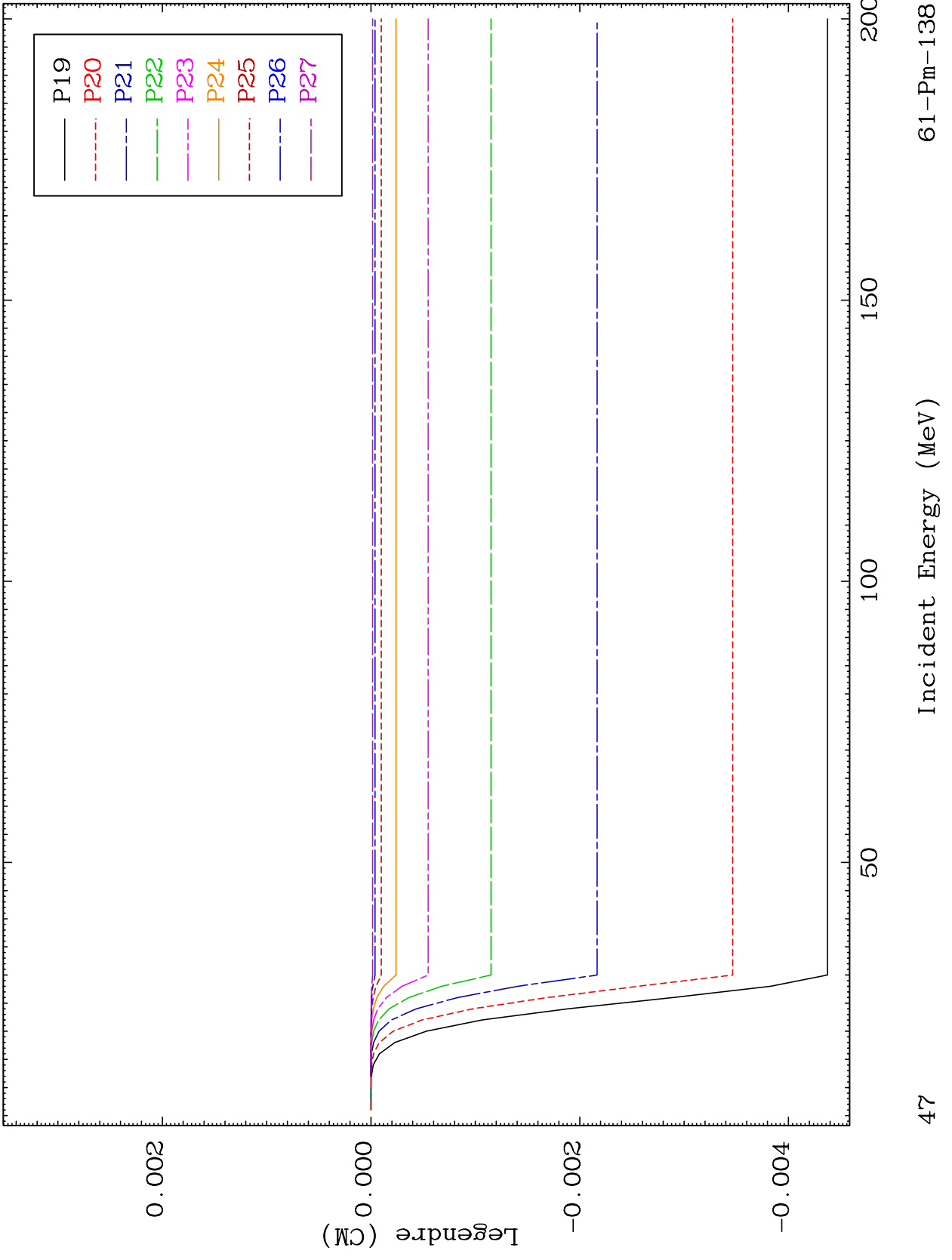
Incident Energy (MeV)

46

MAT 6122

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

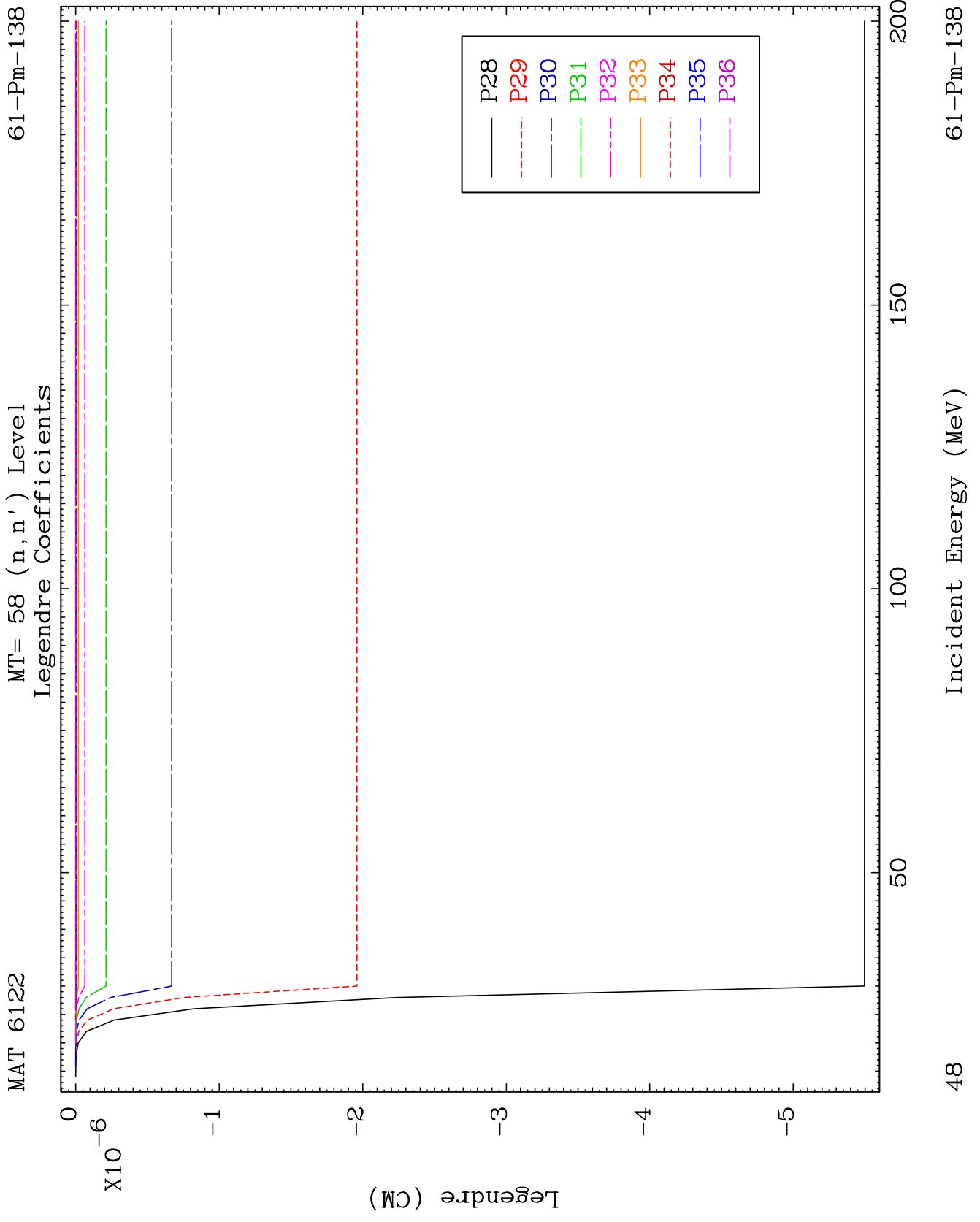
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47

Incident Energy (MeV)

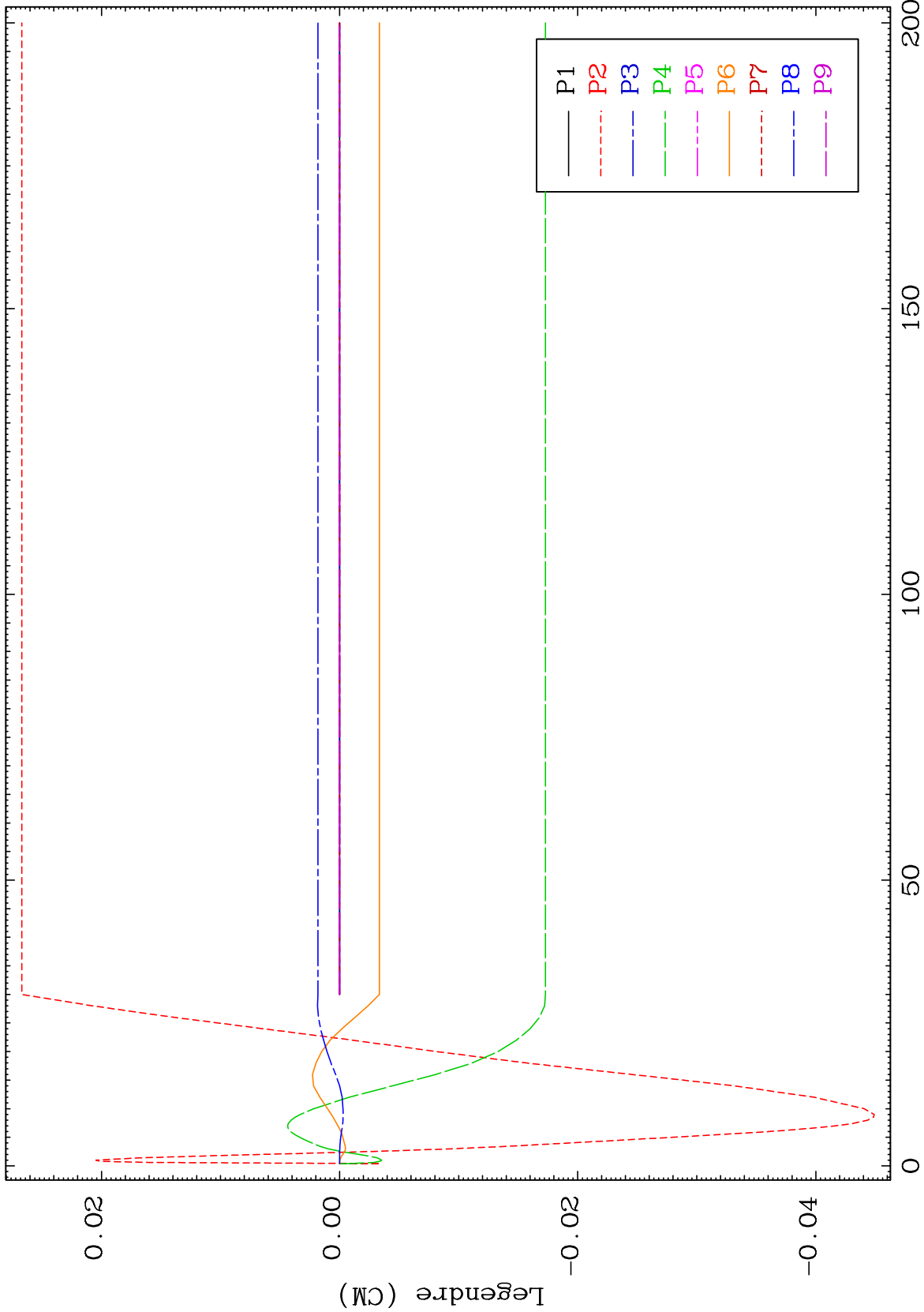
61-Pm-138



MAT 6122

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

61-Pm-138



49

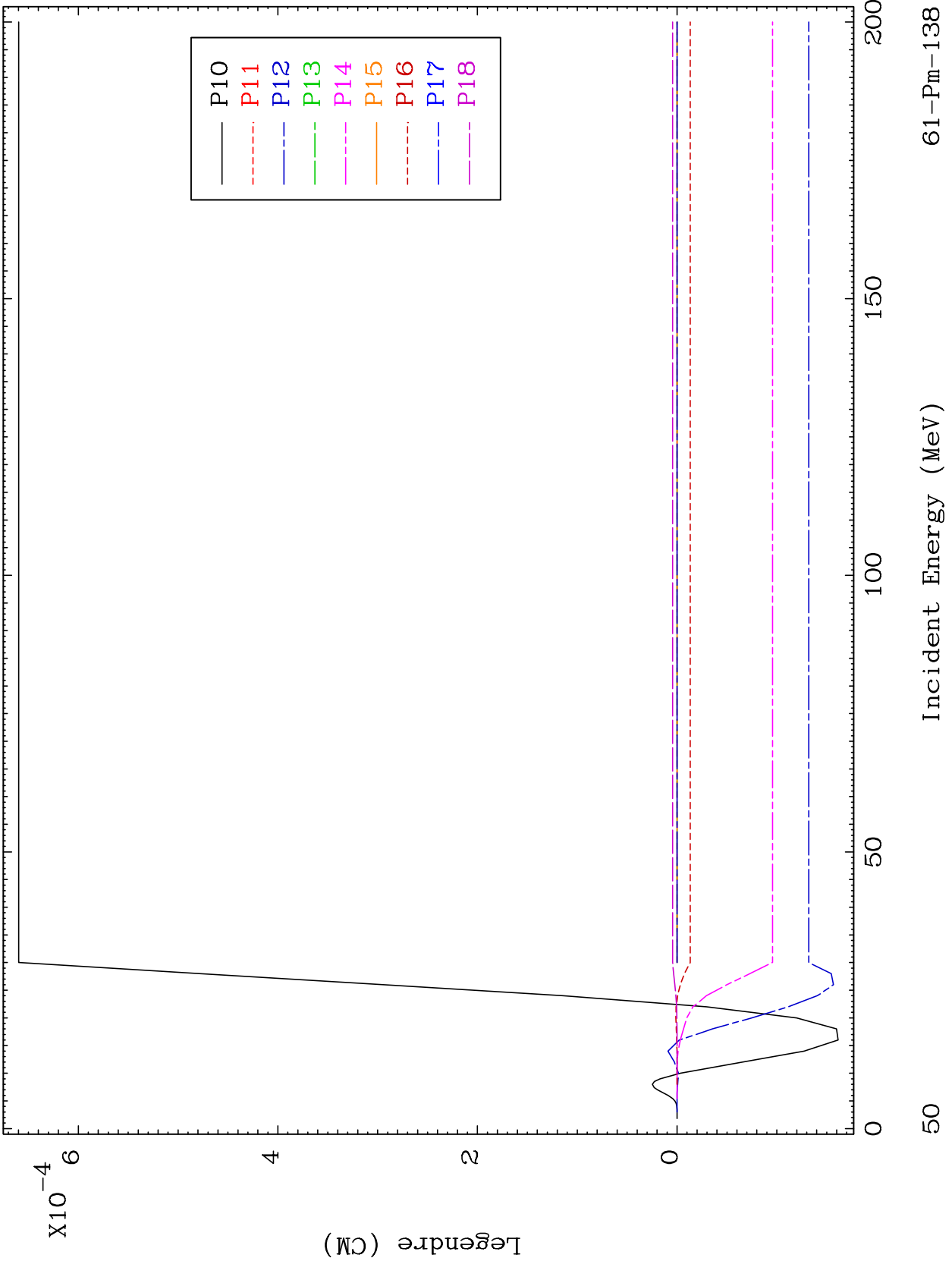
Incident Energy (MeV)

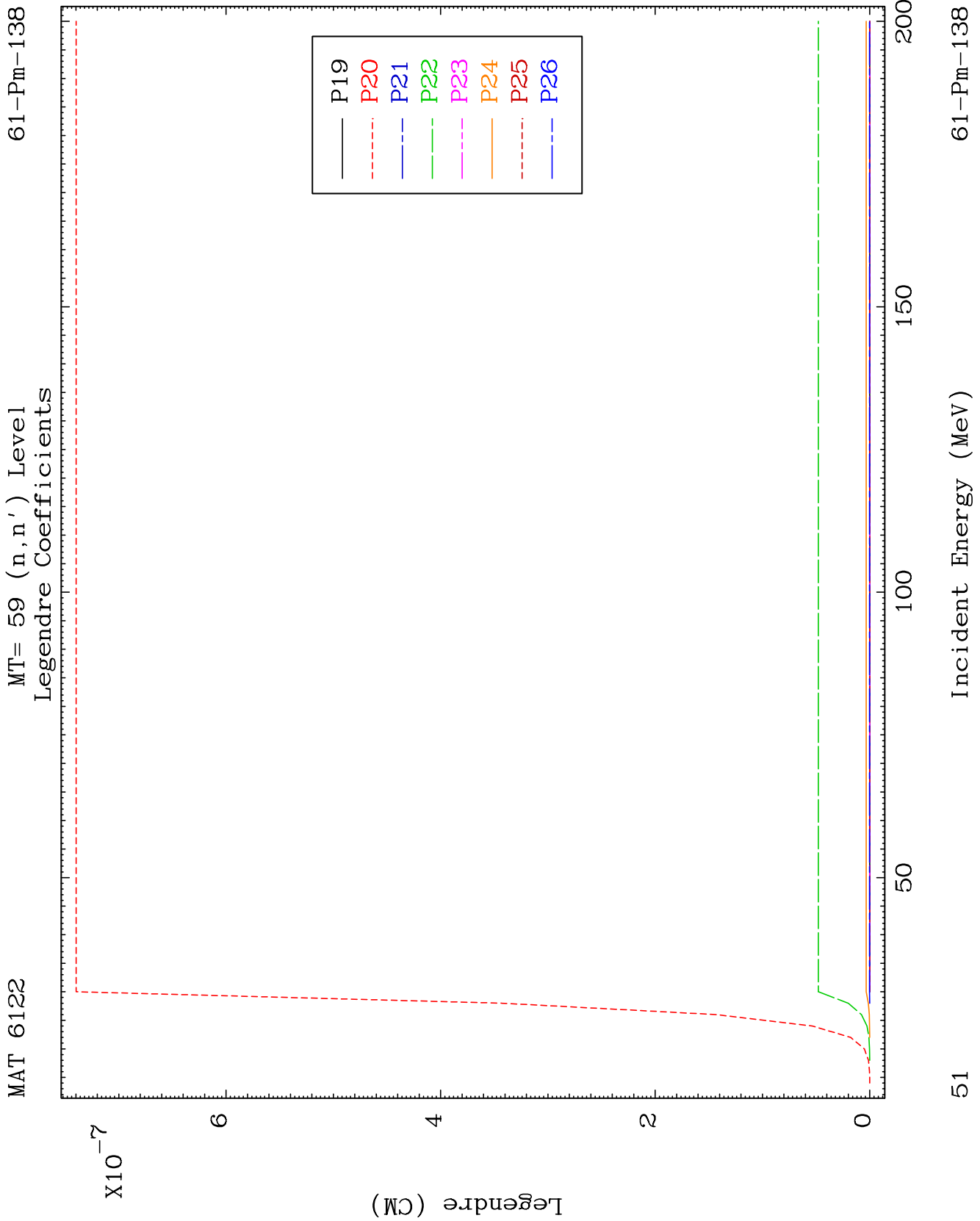
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MAT 6122

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

61-Pm-138

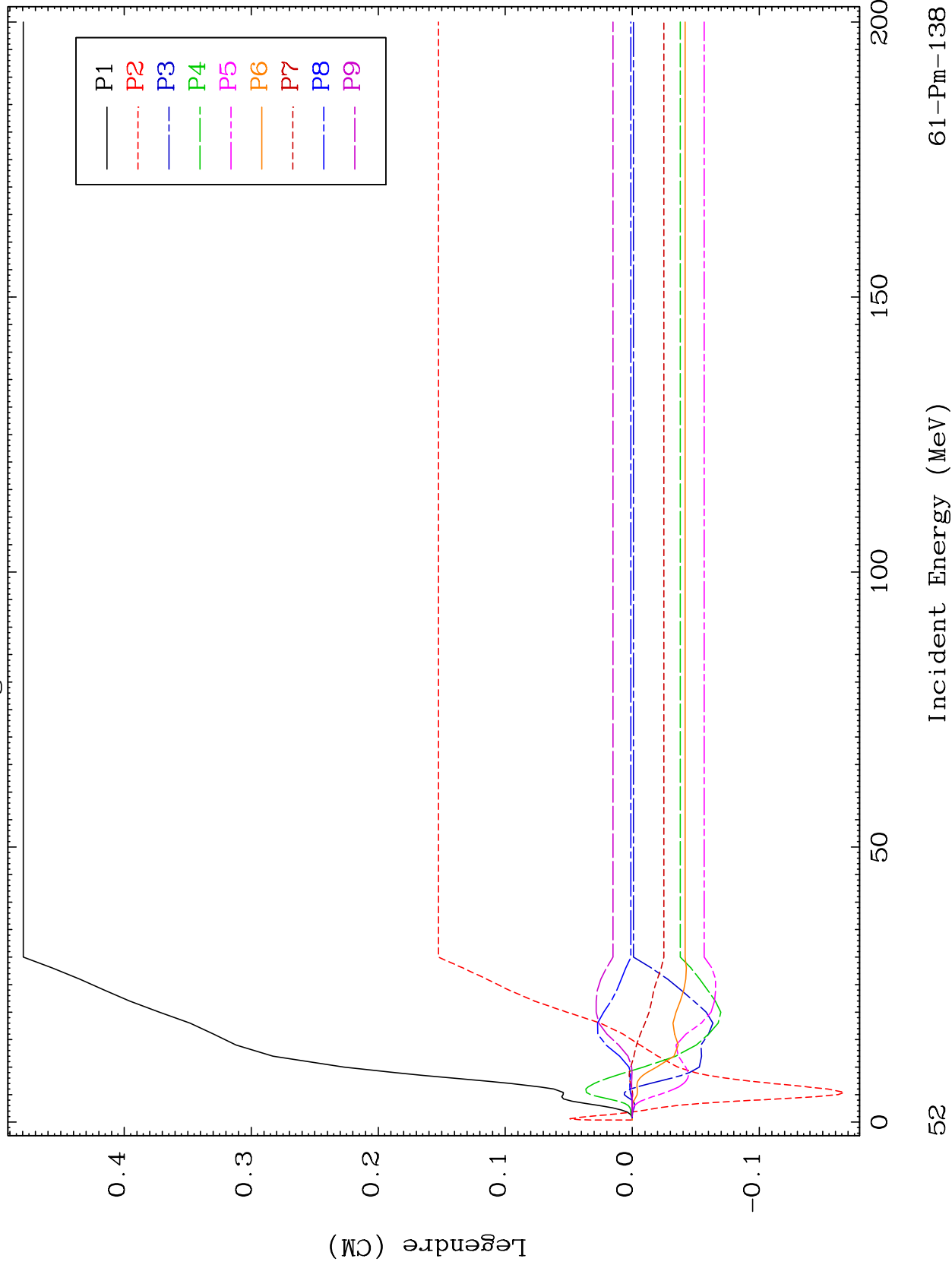




MAT 6122

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

61-Pm-138



61-Pm-138

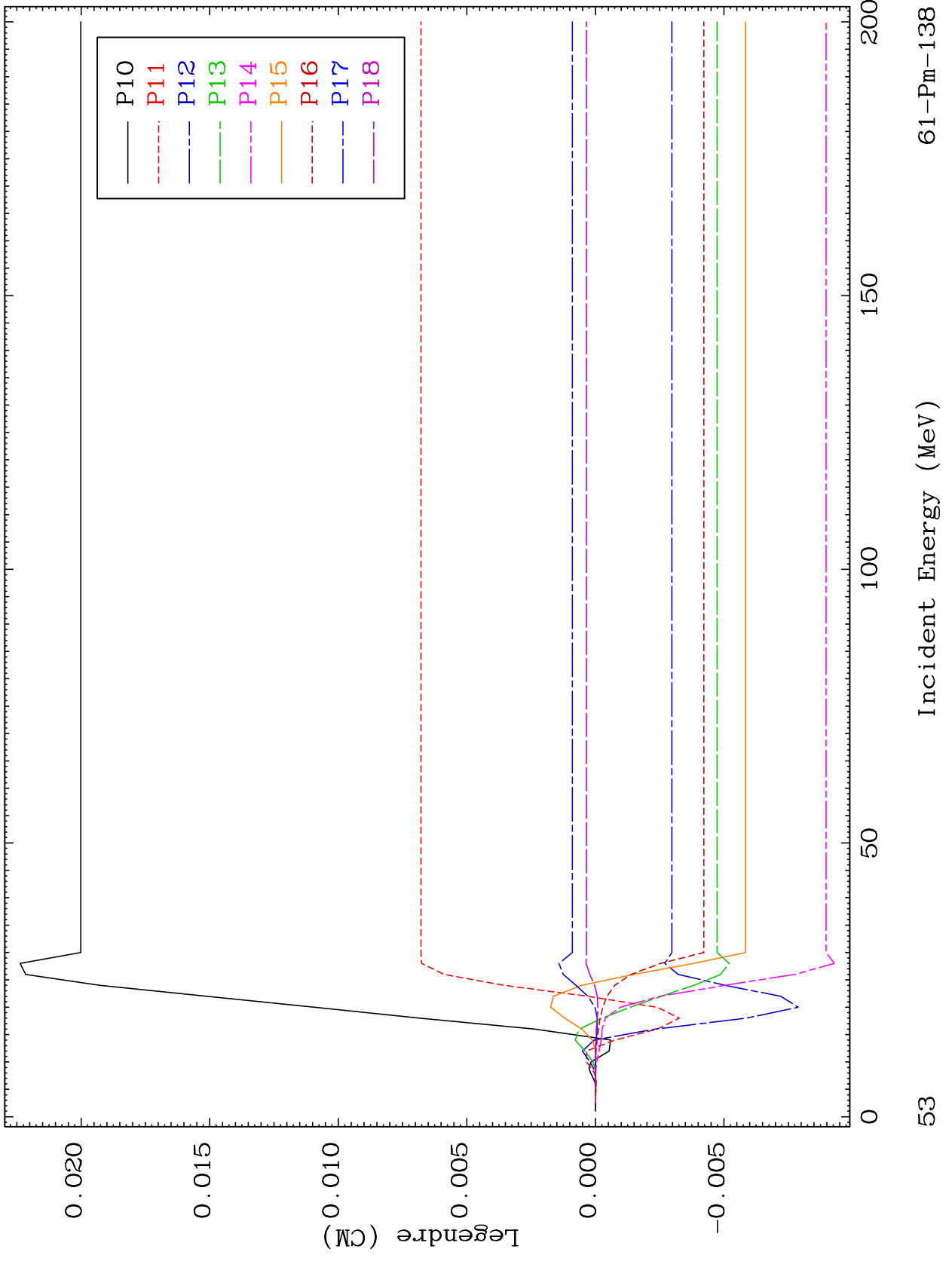
Incident Energy (MeV)

52

MAT 6122

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

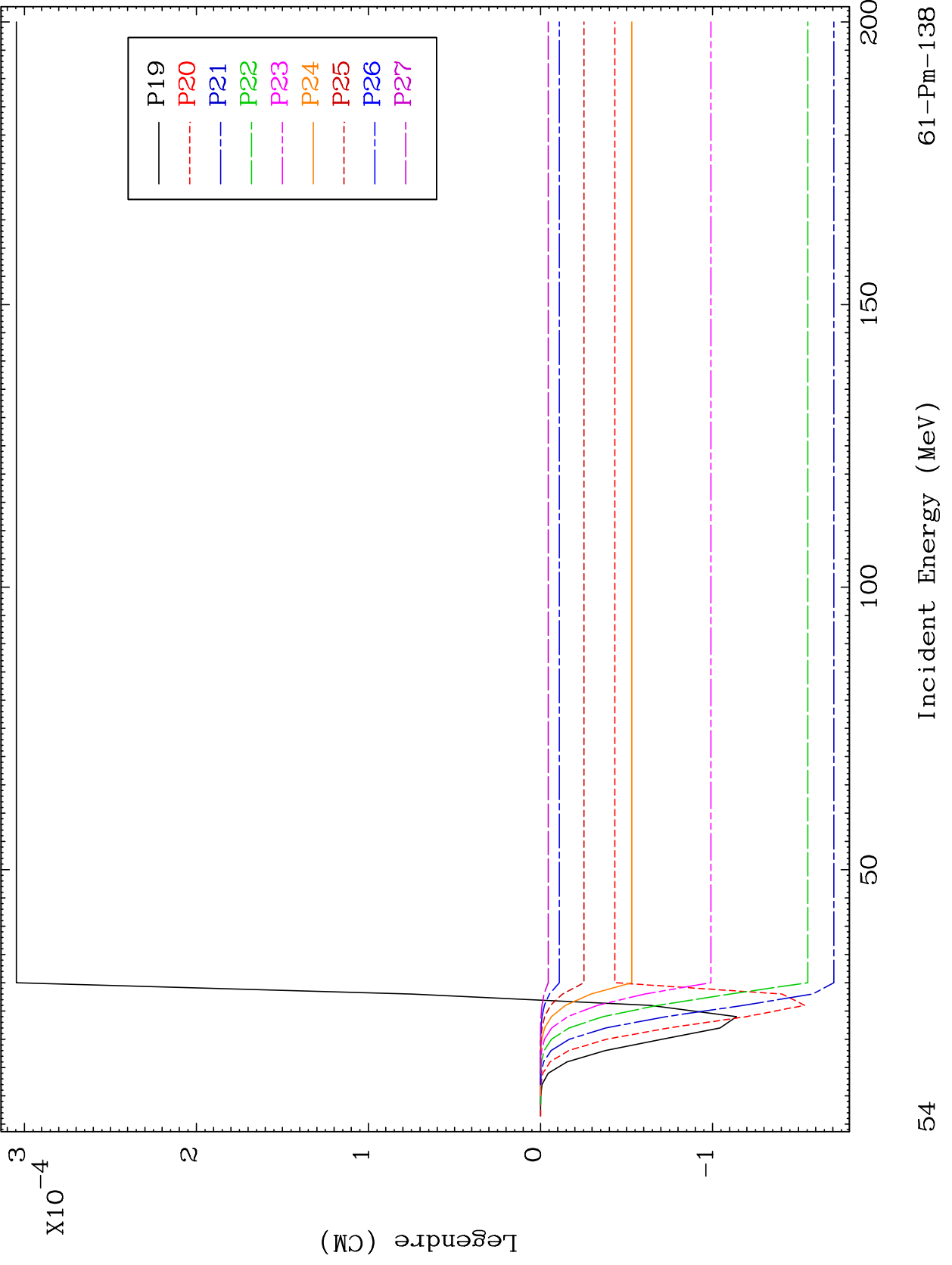
61-Pm-138

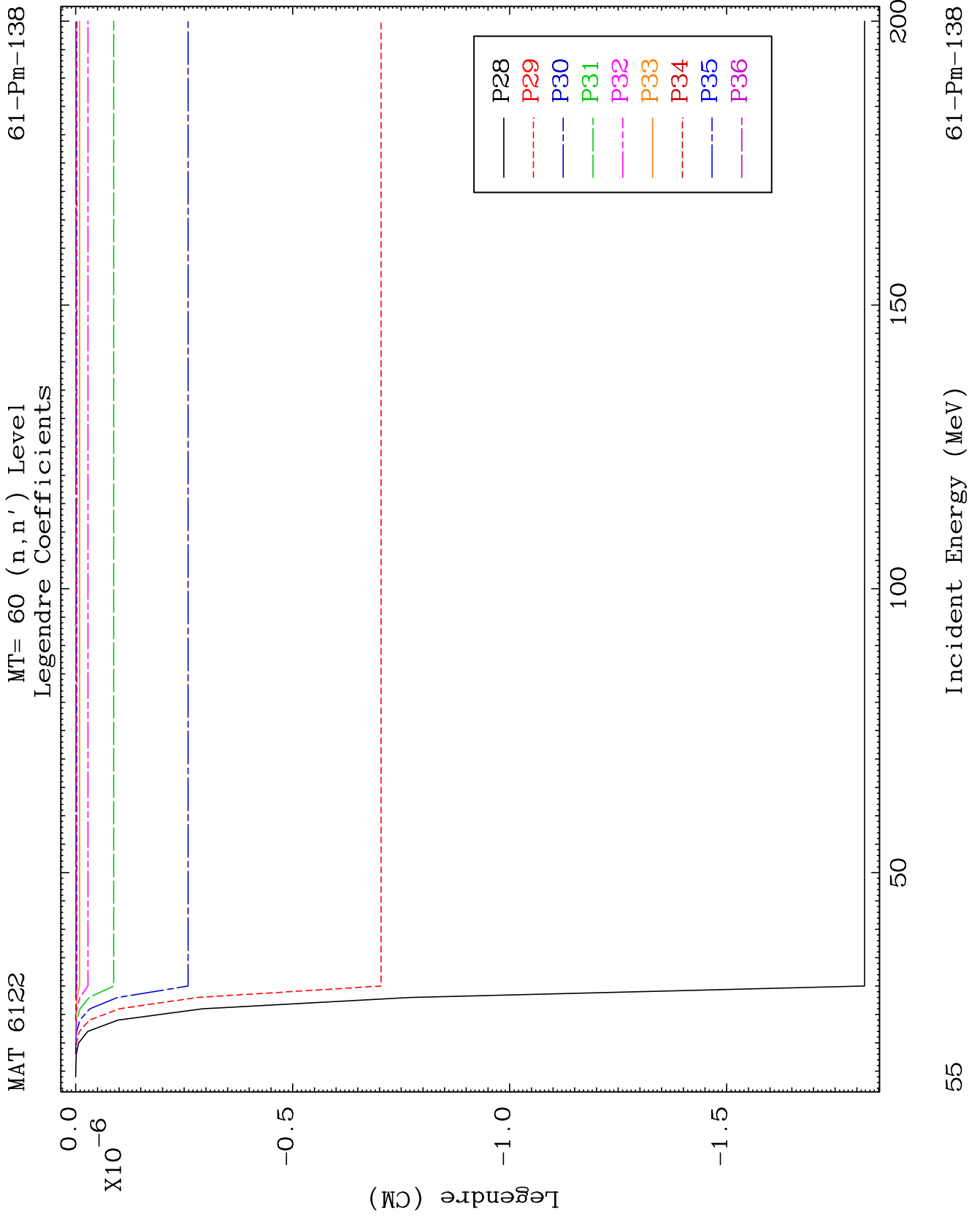


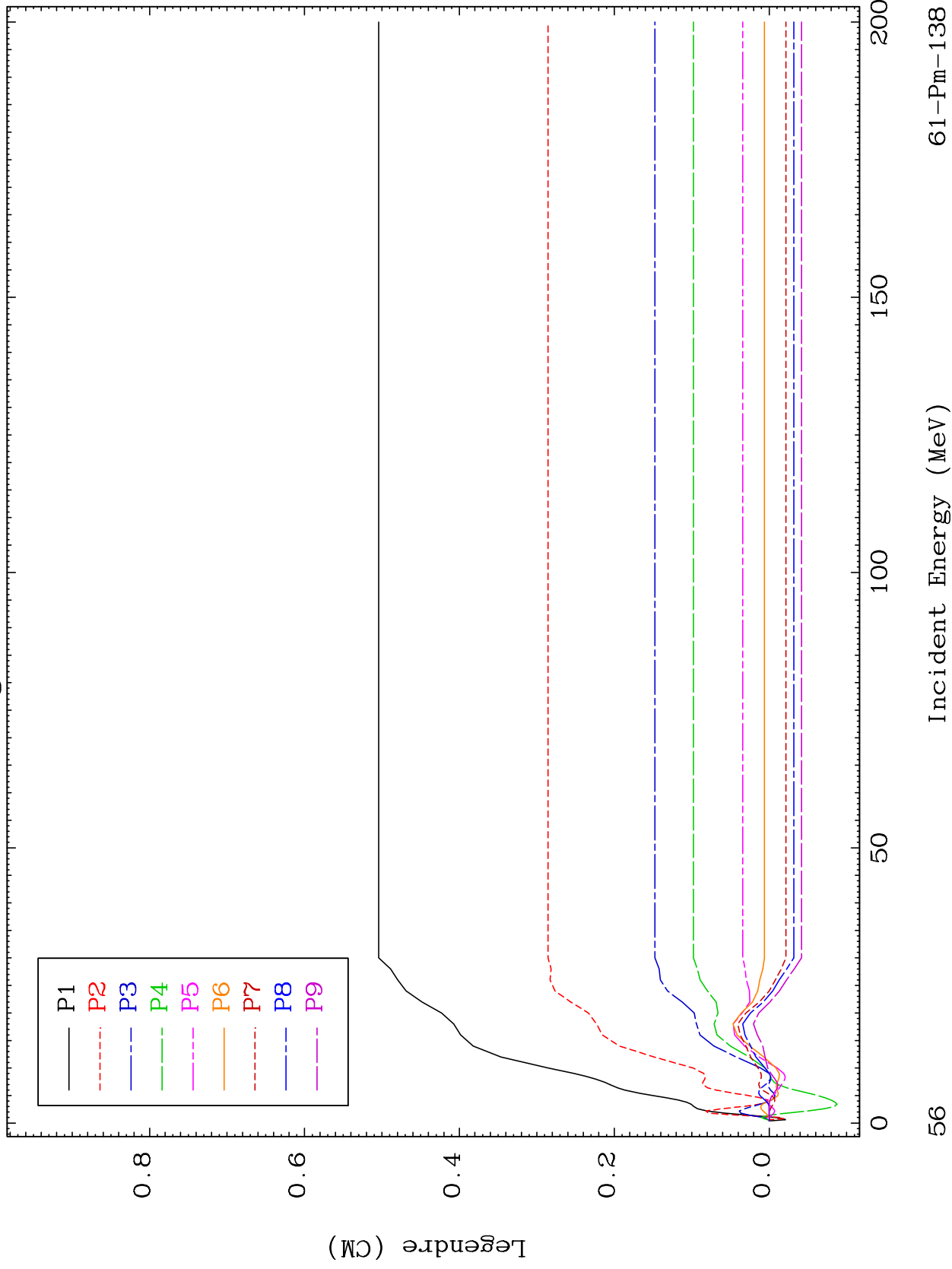
53

Incident Energy (MeV)

61-Pm-138



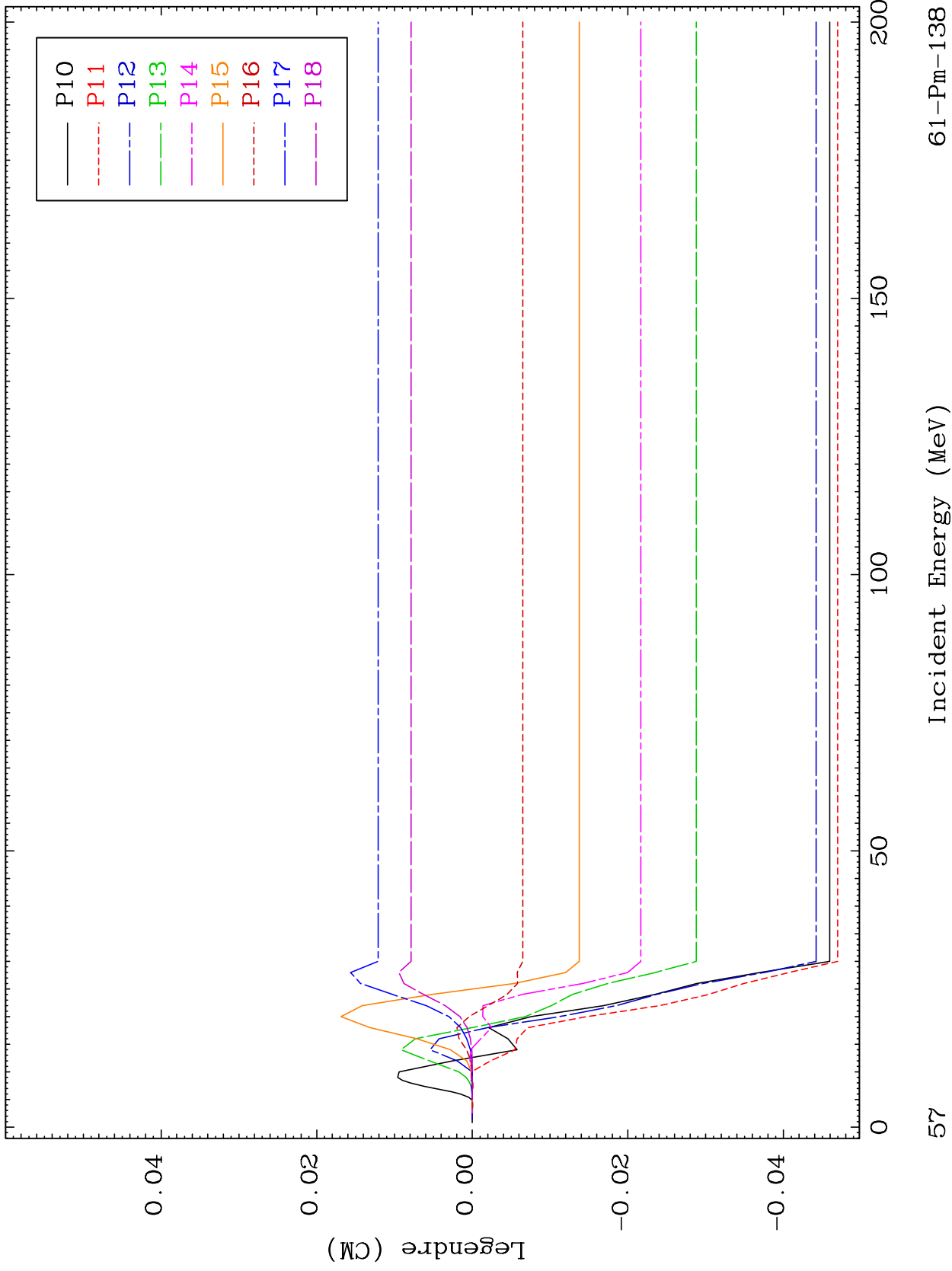




MAT 6122

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

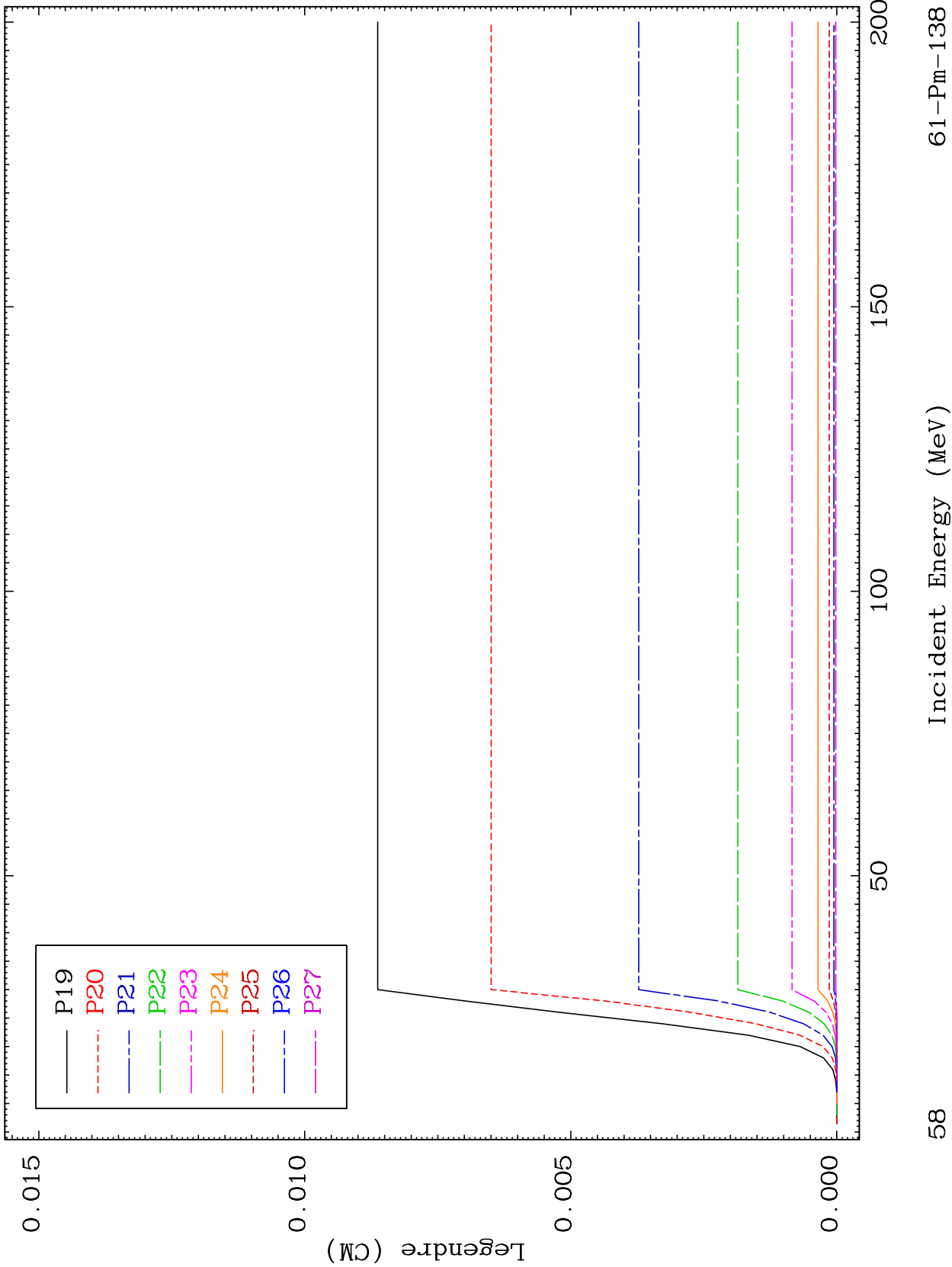
61-Pm-138



57

Incident Energy (MeV)

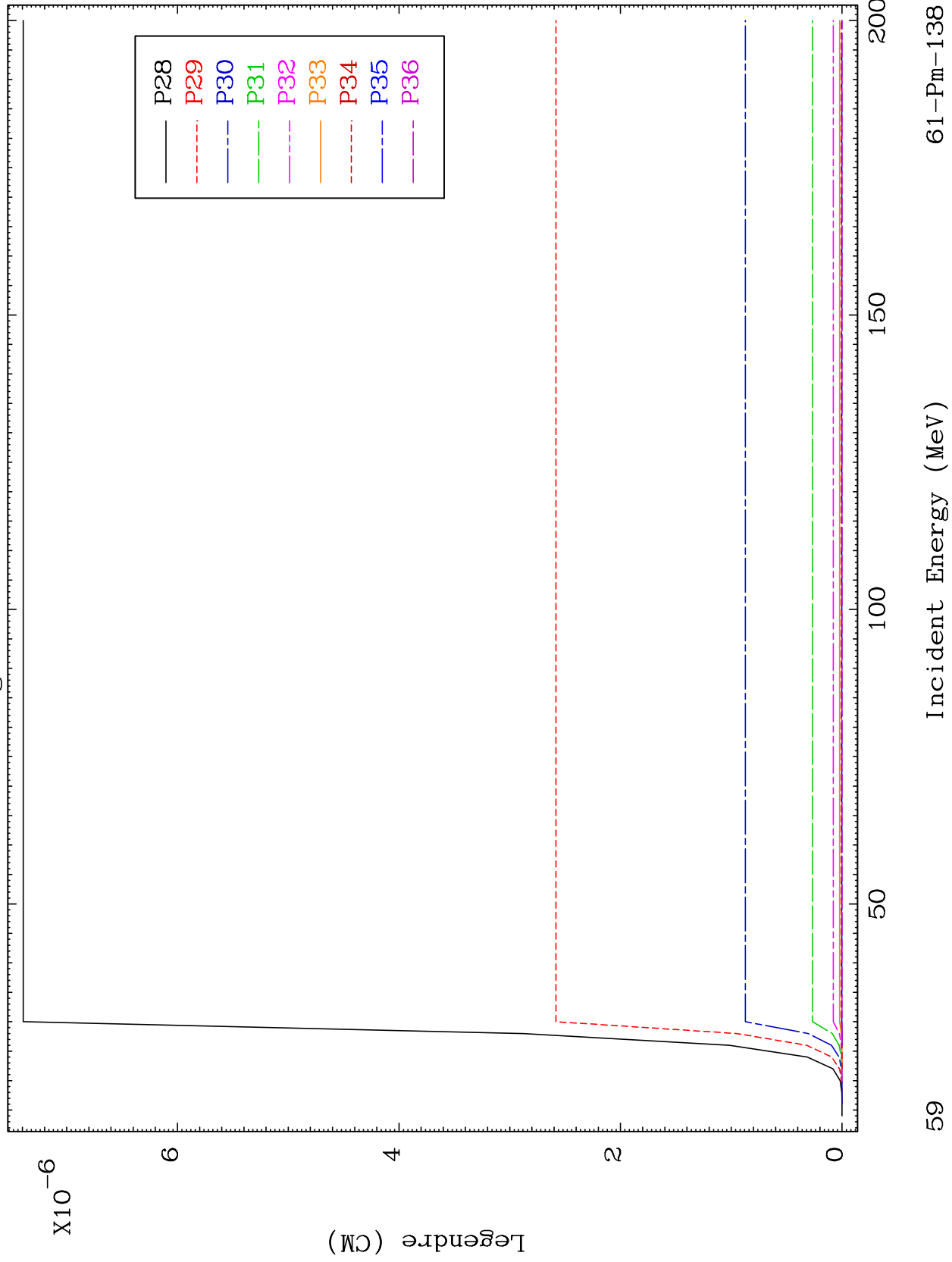
61-Pm-138



MAT 6122

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

61-Pm-138



59

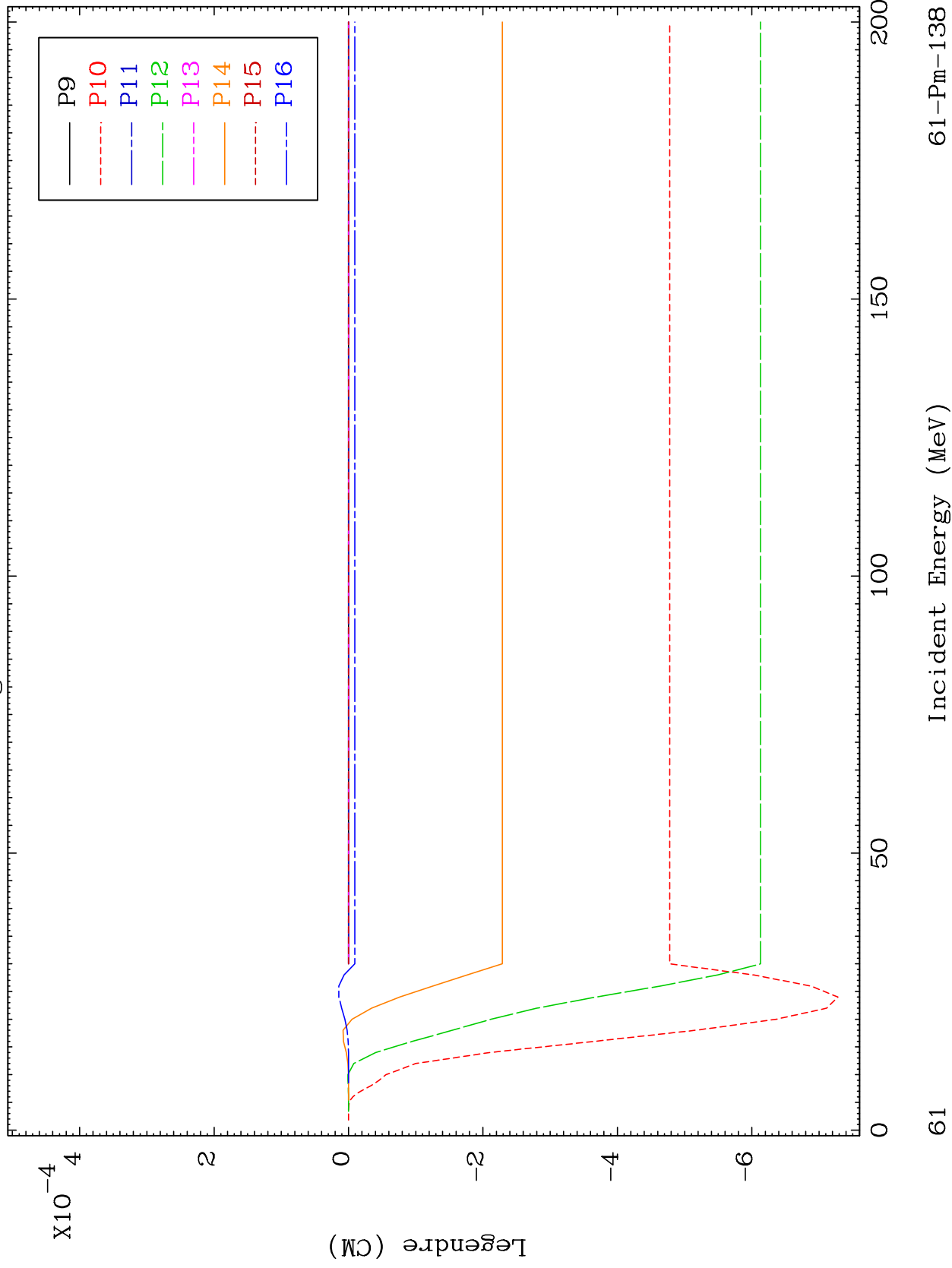
Incident Energy (MeV)

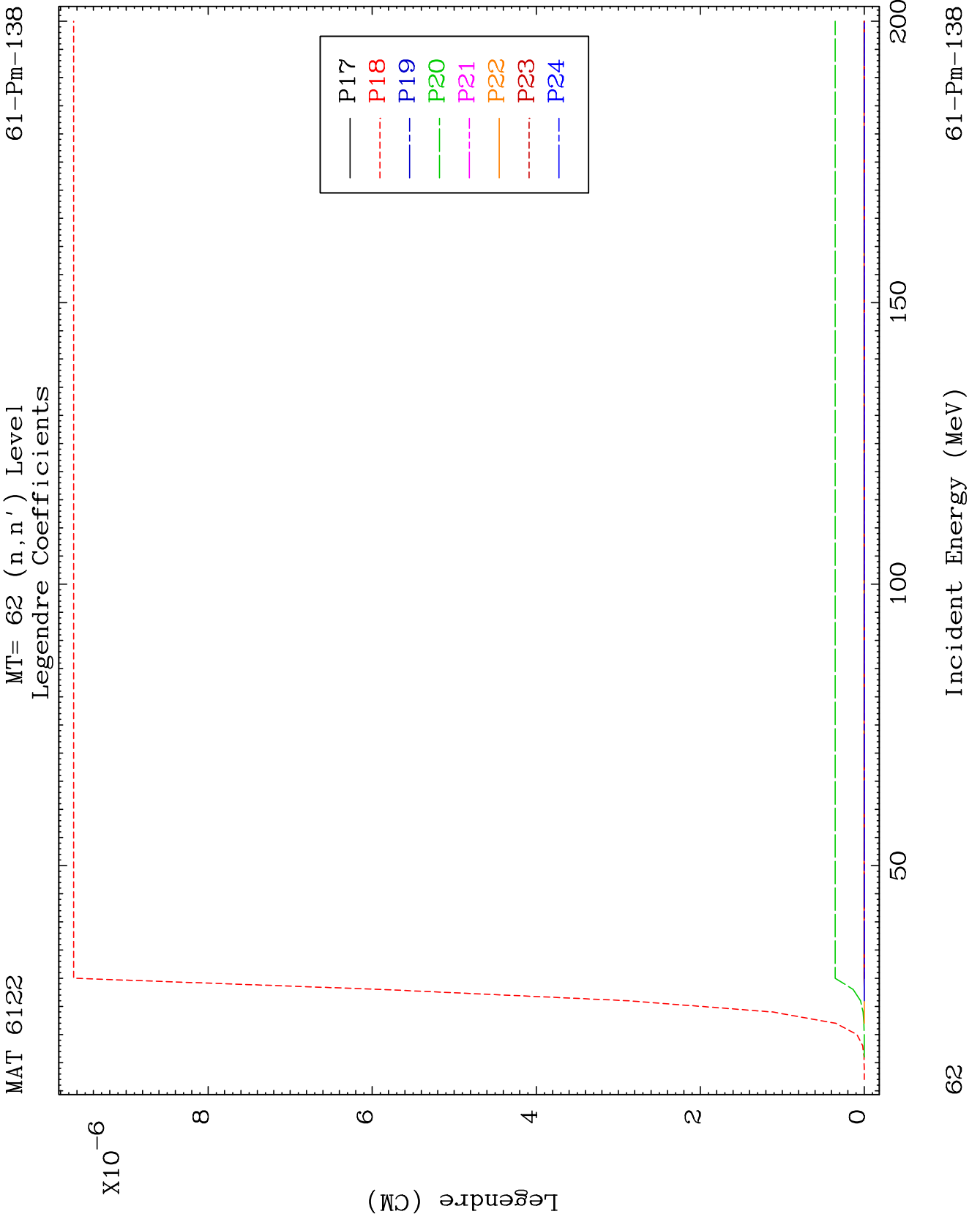
61-Pm-138

MAT 6122

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

61-Pm-138

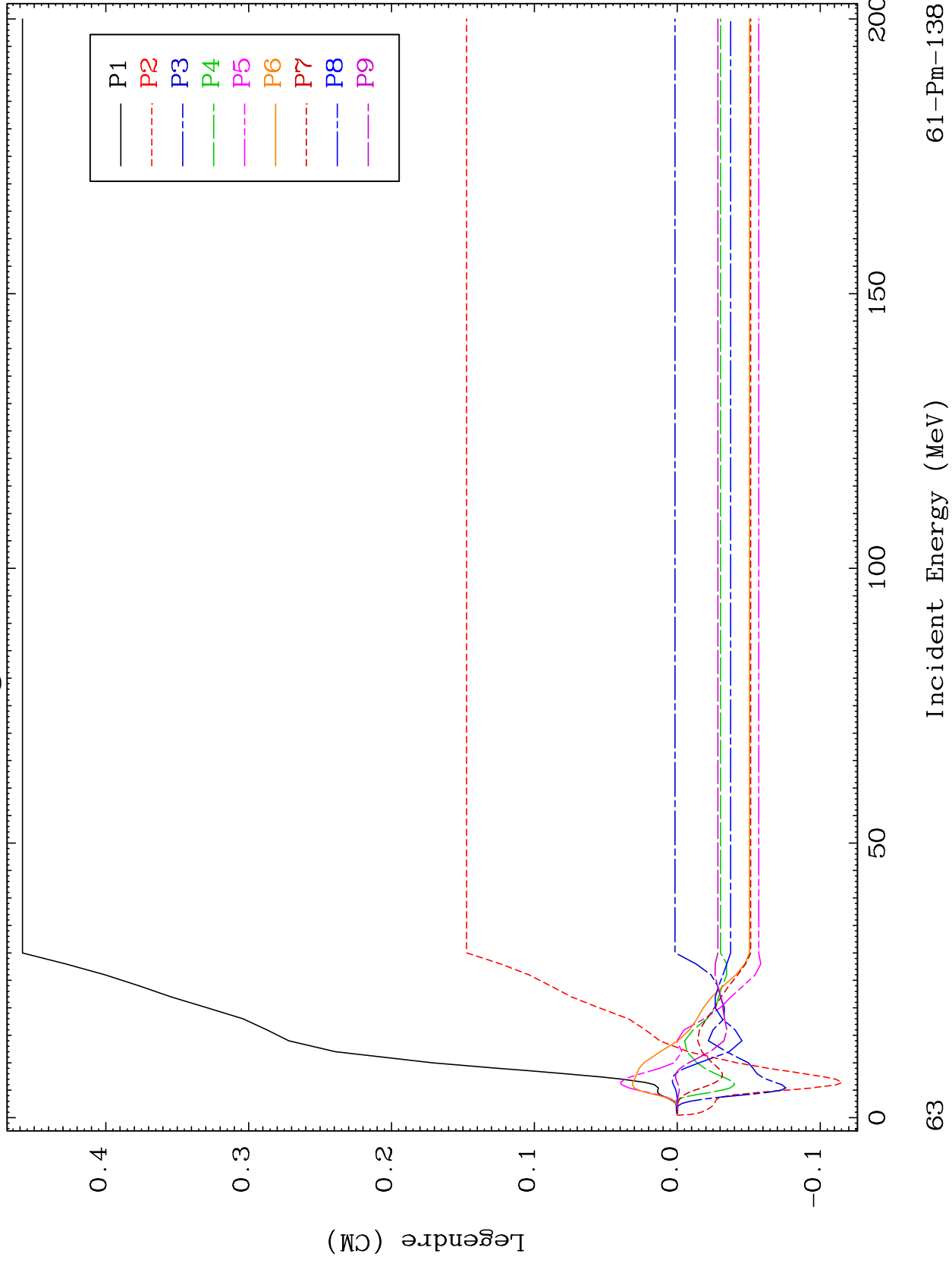




MAT 6122

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

61-Pm-138



61-Pm-138

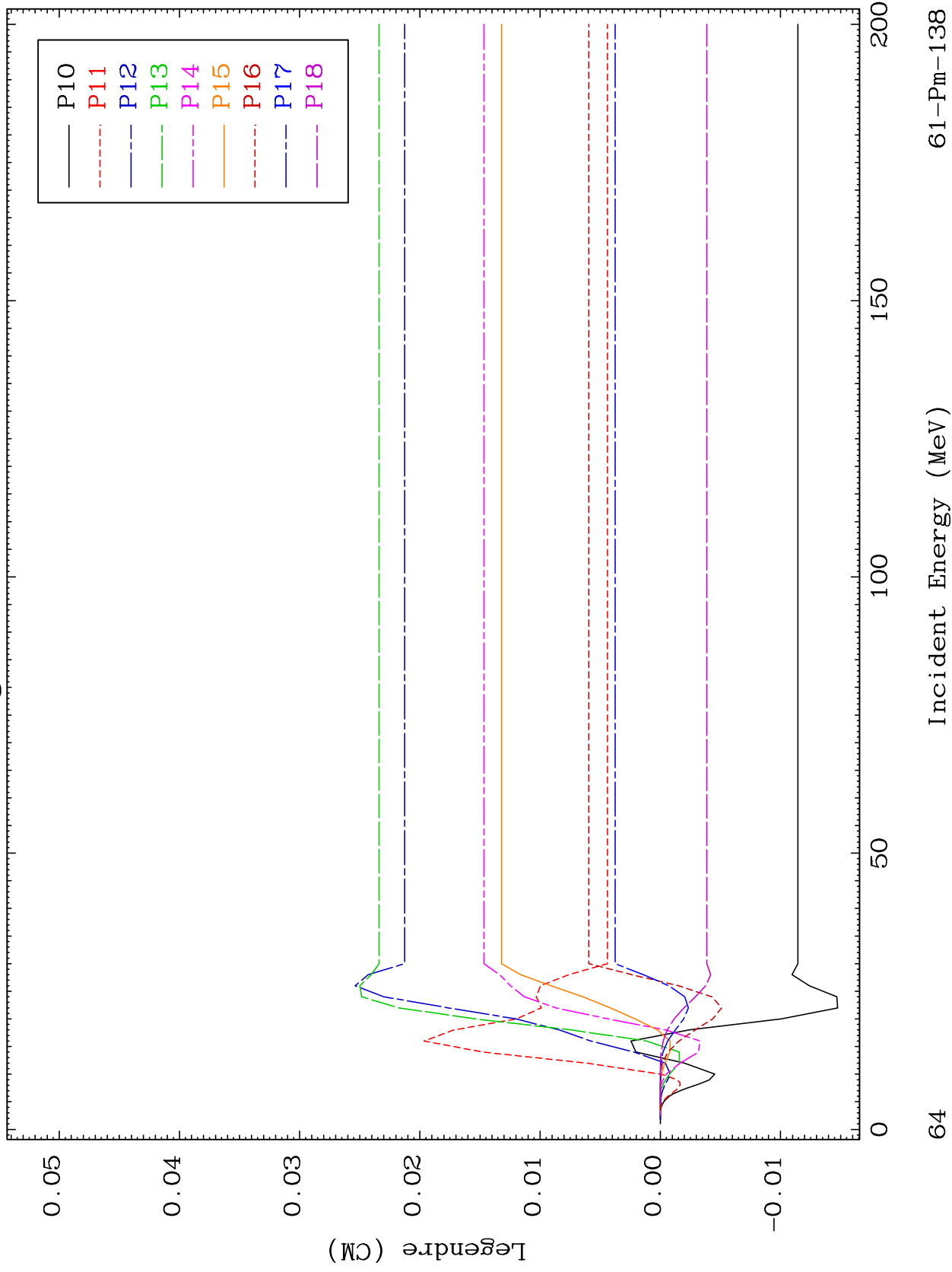
Incident Energy (MeV)

63

MAT 6122

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

61-Pm-138



61-Pm-138

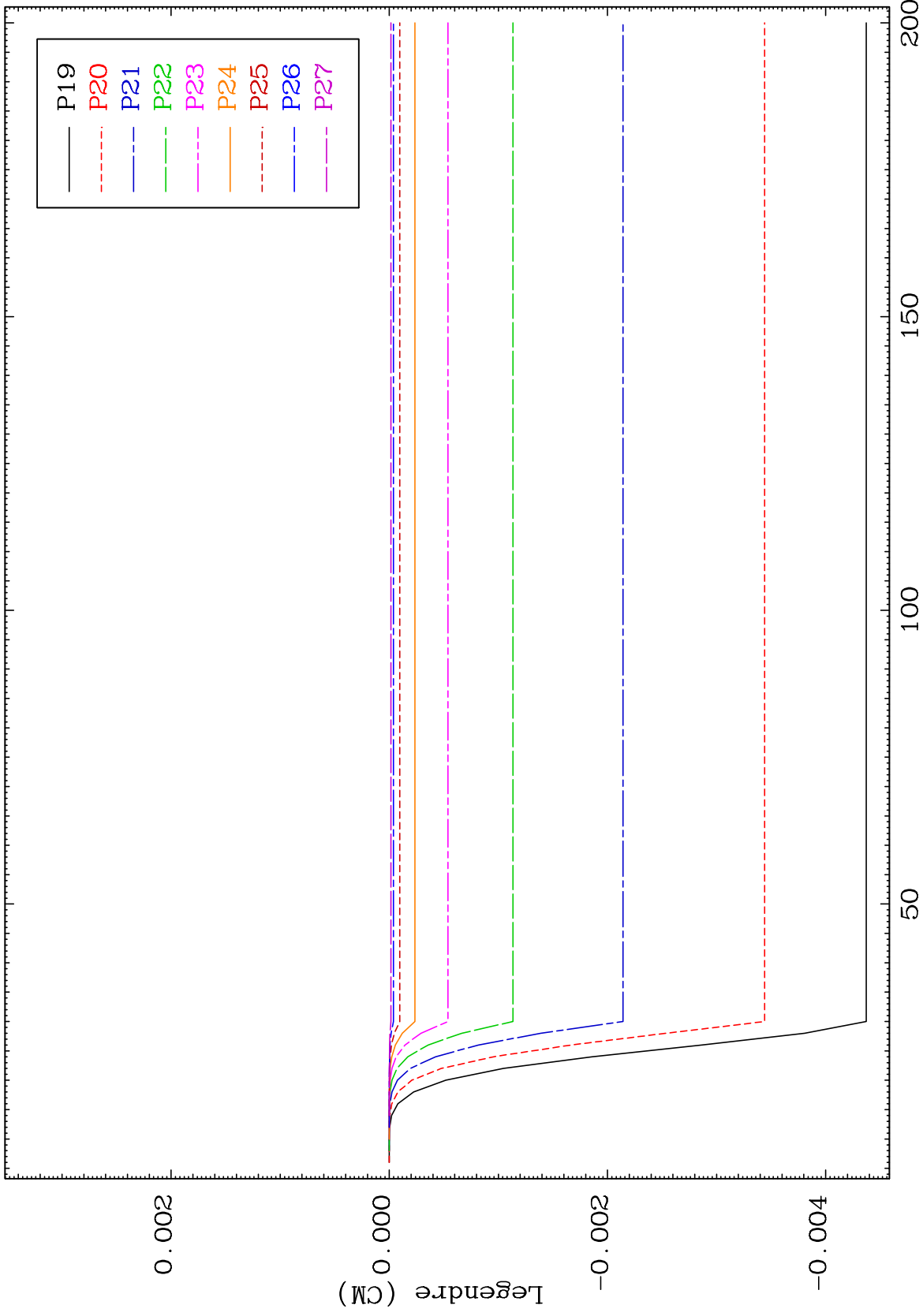
Incident Energy (MeV)

64

MAT 6122

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

61-Pm-138



65

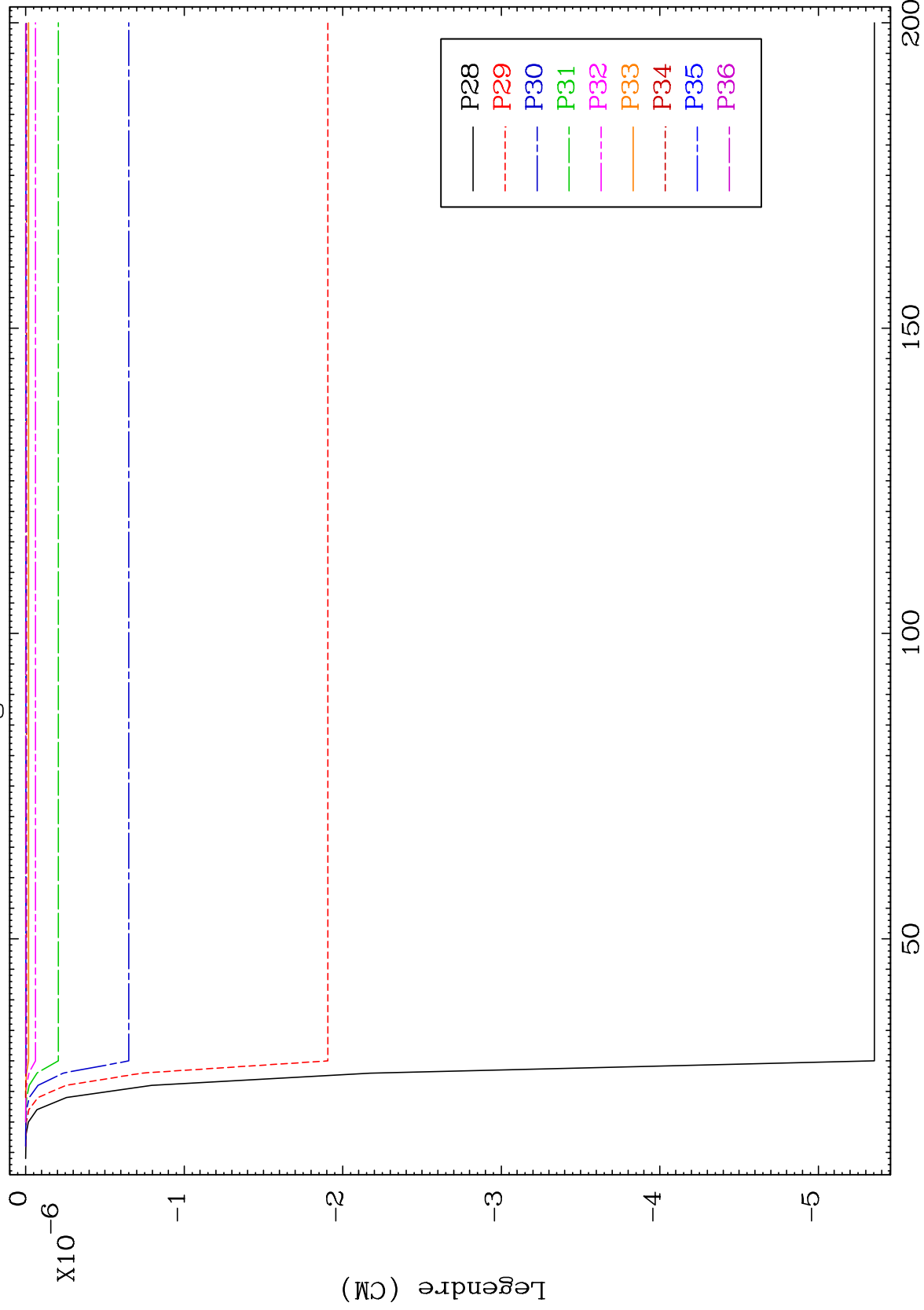
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



66

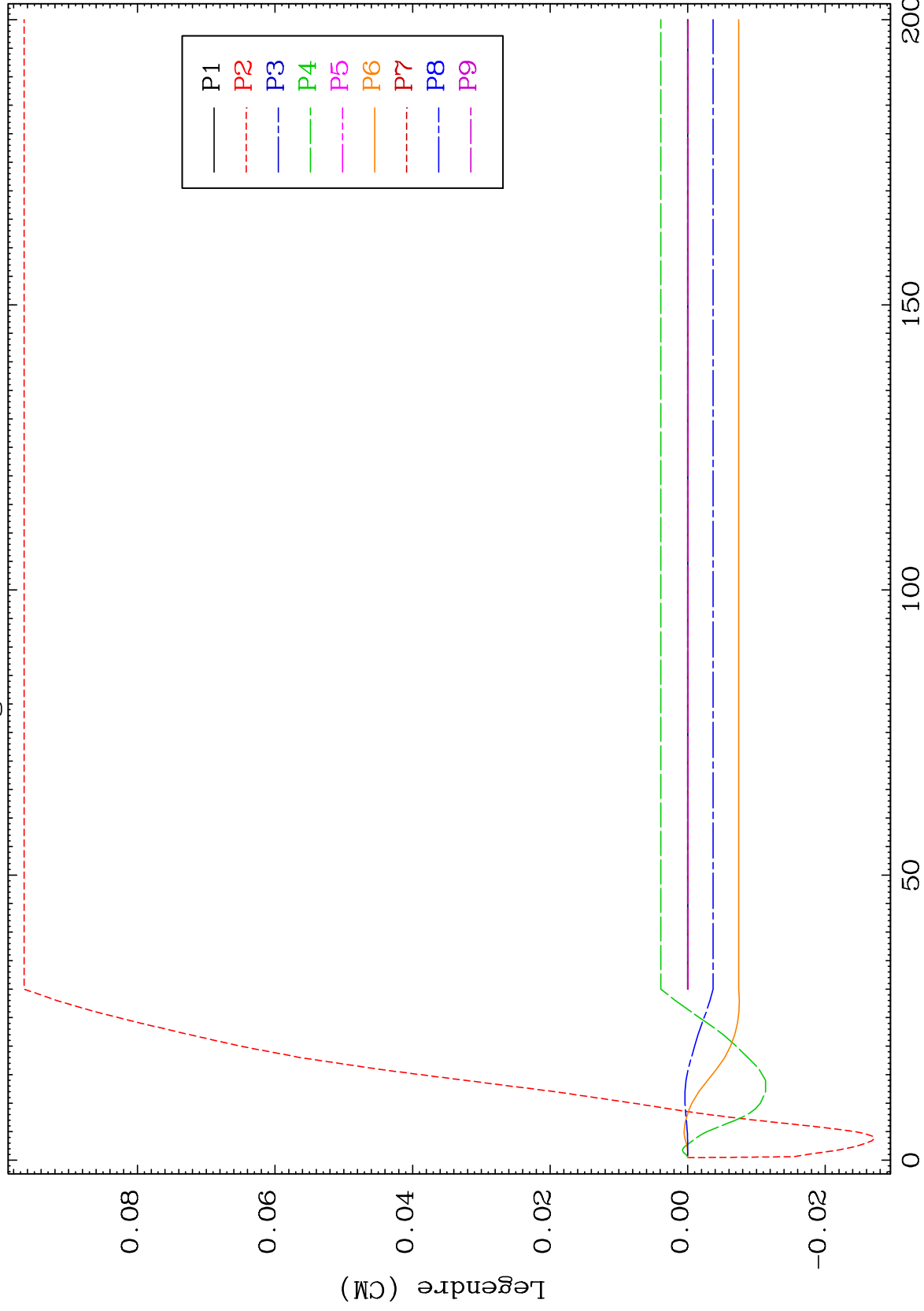
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



61-Pm-138

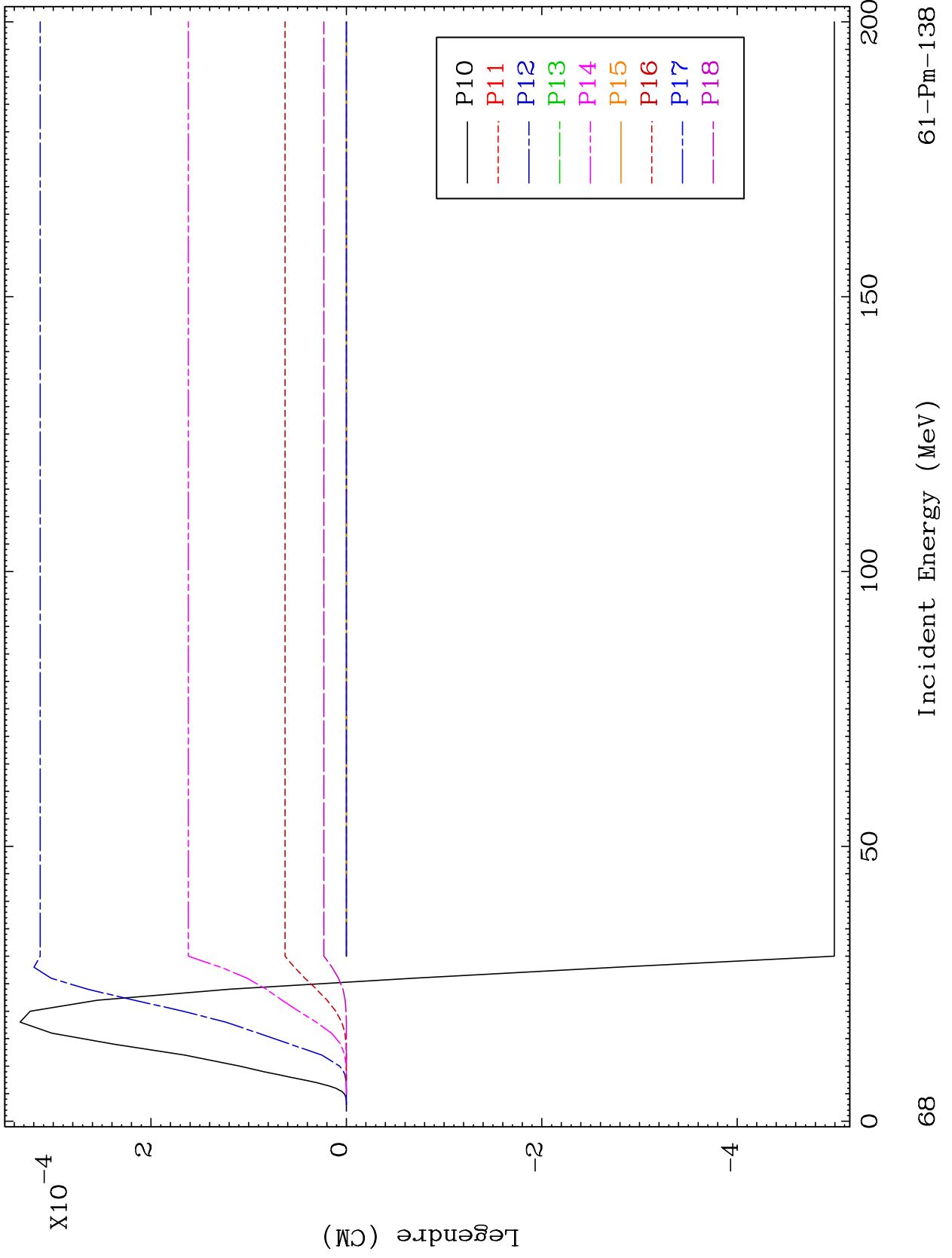
Incident Energy (MeV)

67

MAT 6122

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

61-Pm-138



68

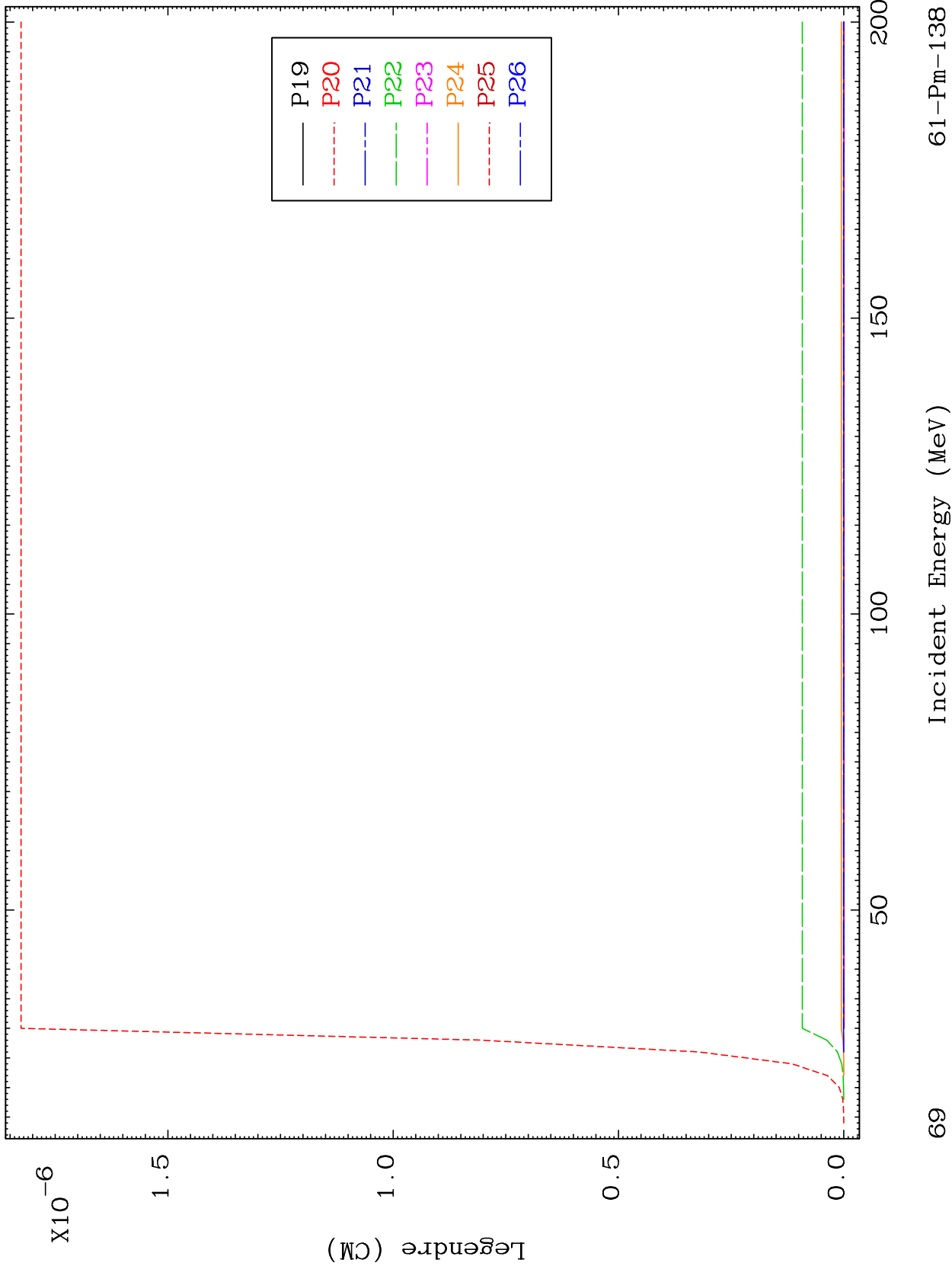
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138

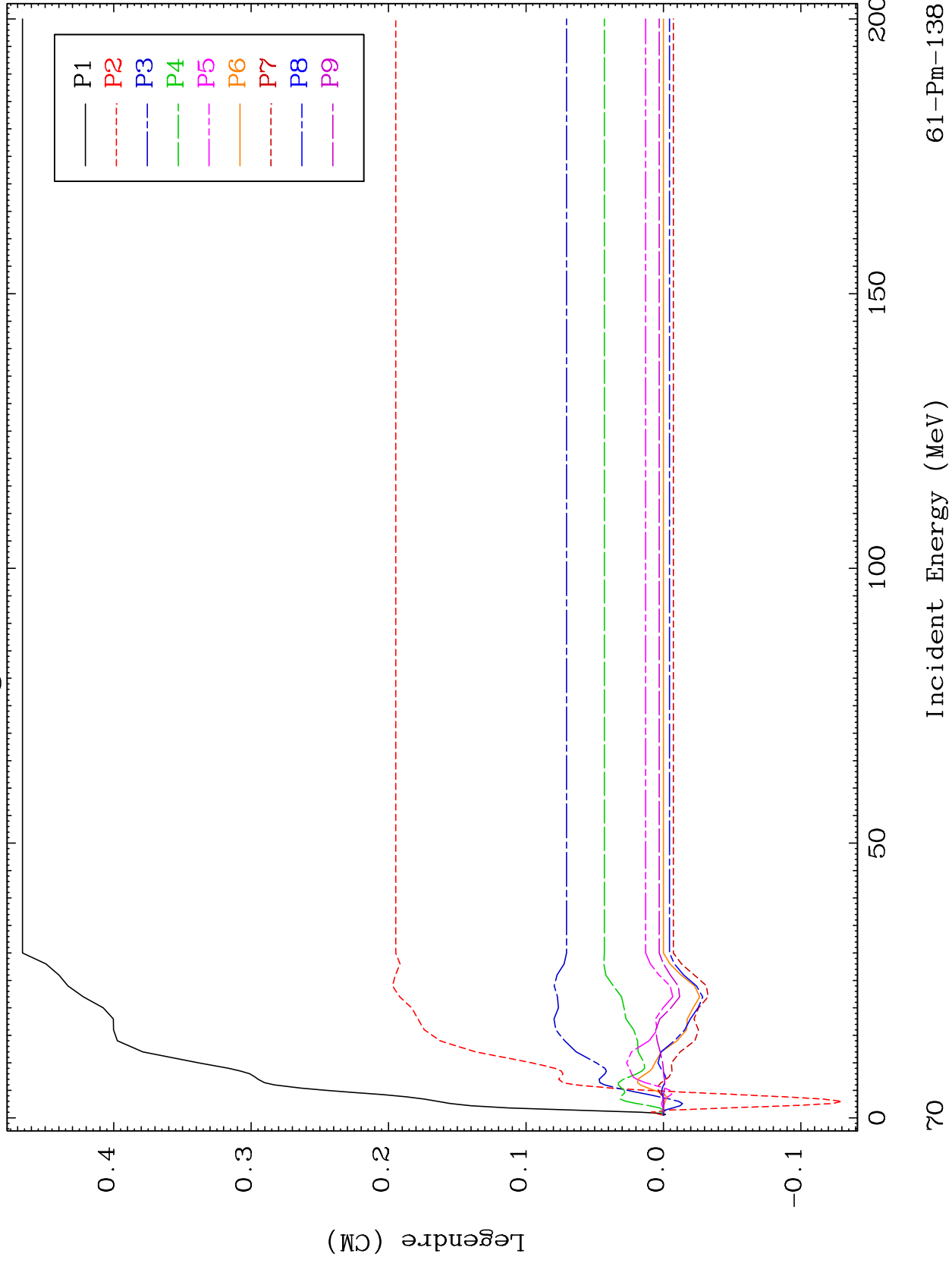


69

MAT 6122

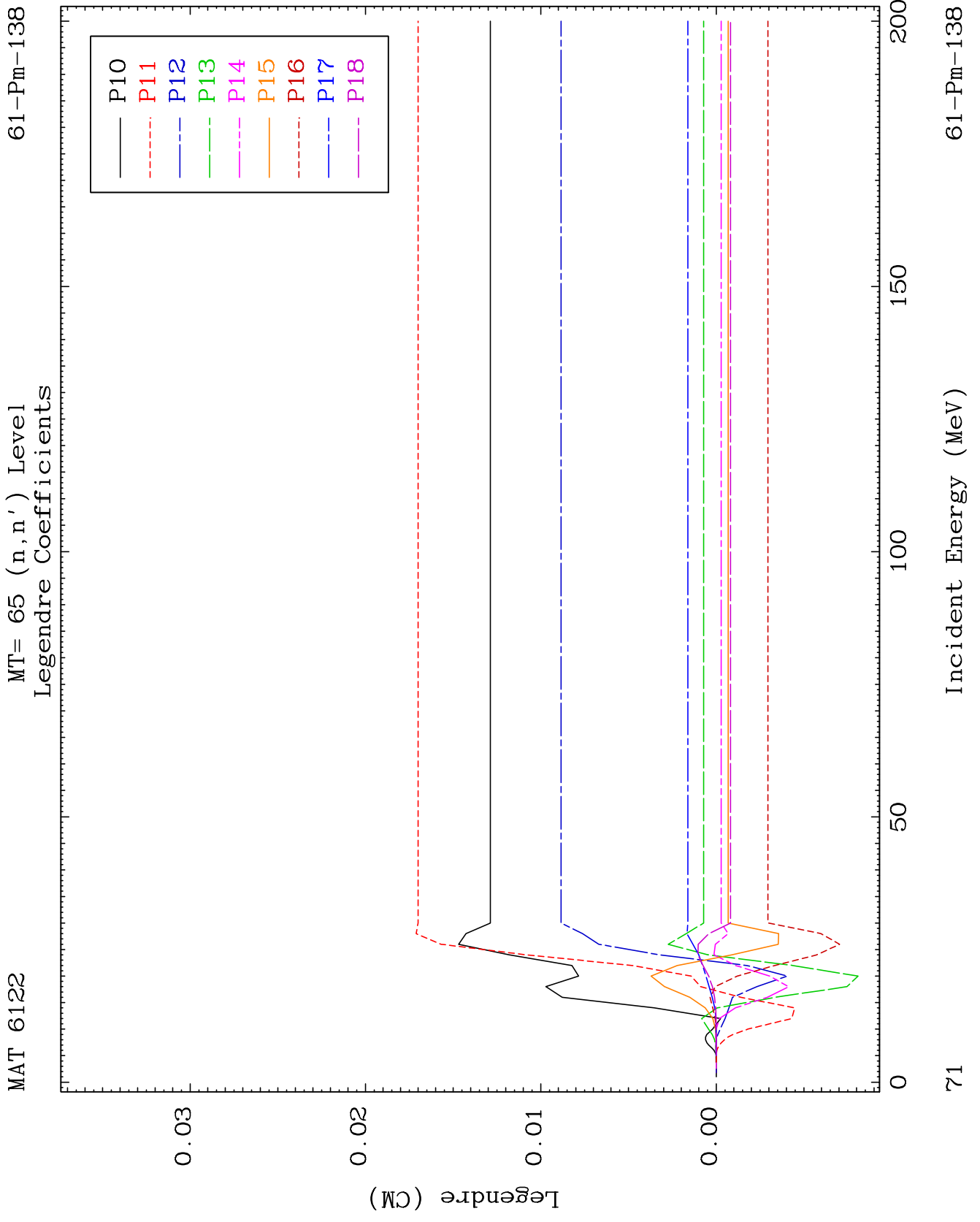
MT= 65 (n,n') Level
Legendre Coefficients

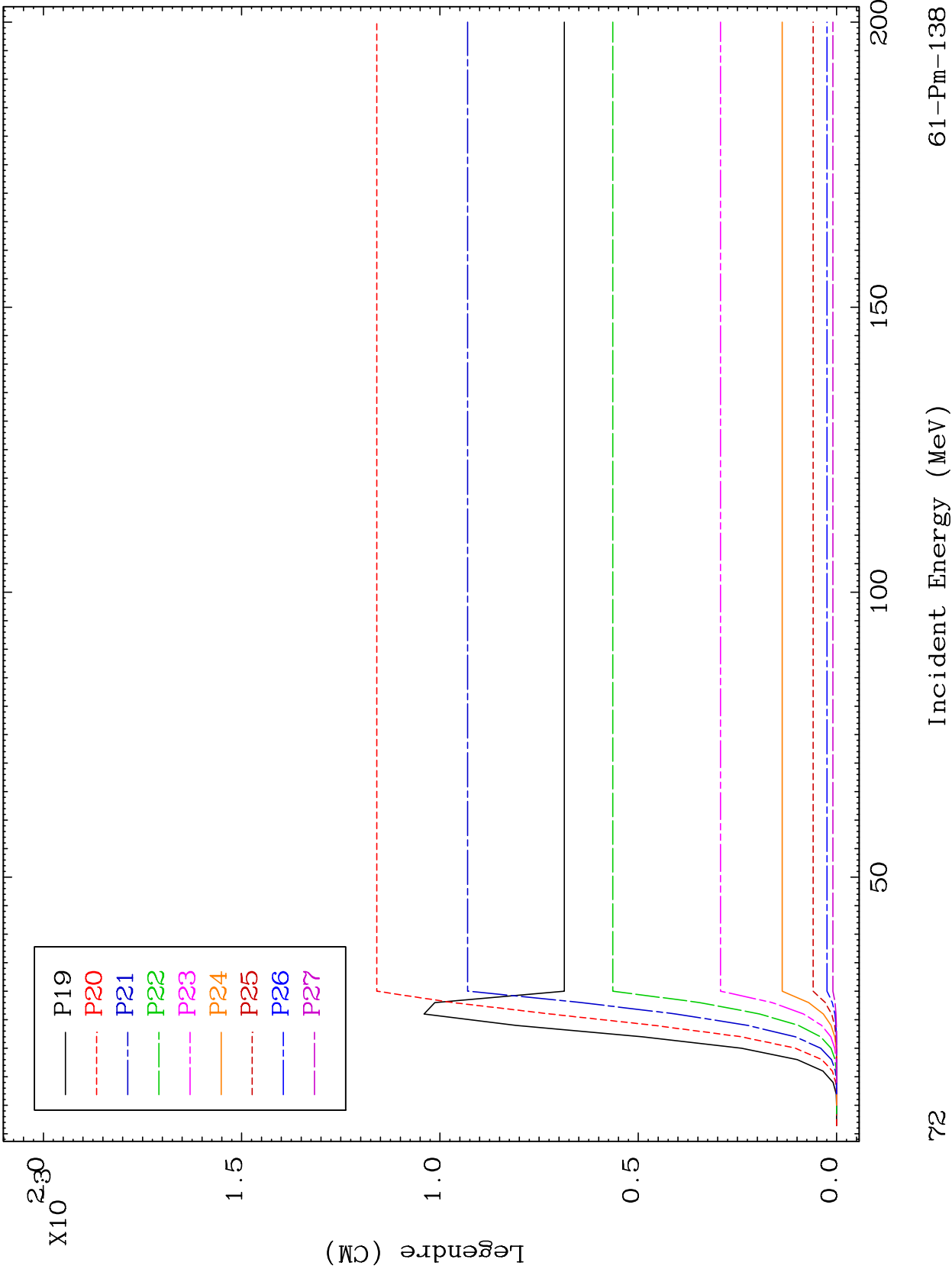
61-Pm-138



61-Pm-138

Incident Energy (MeV)

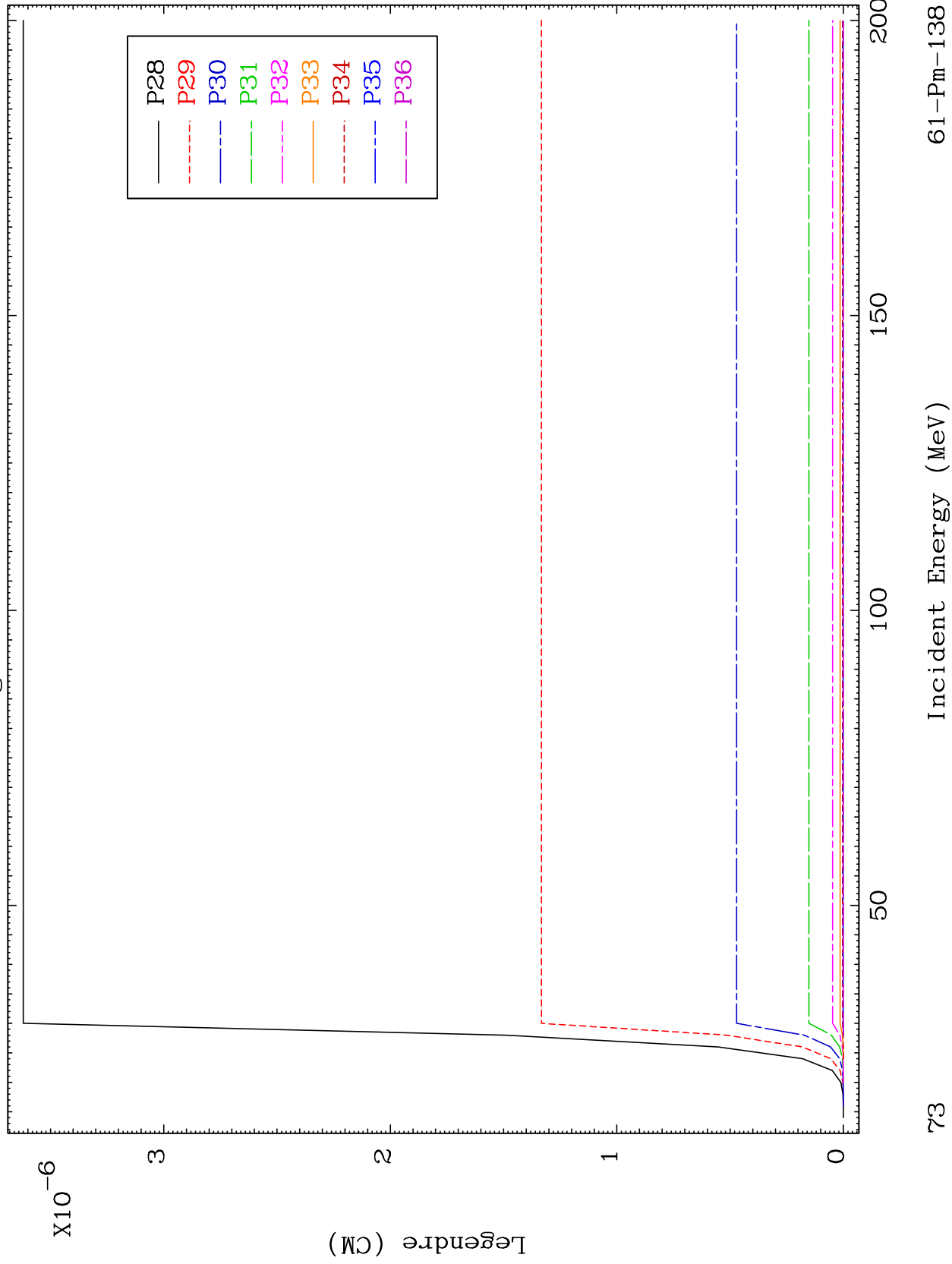




MAT 6122

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

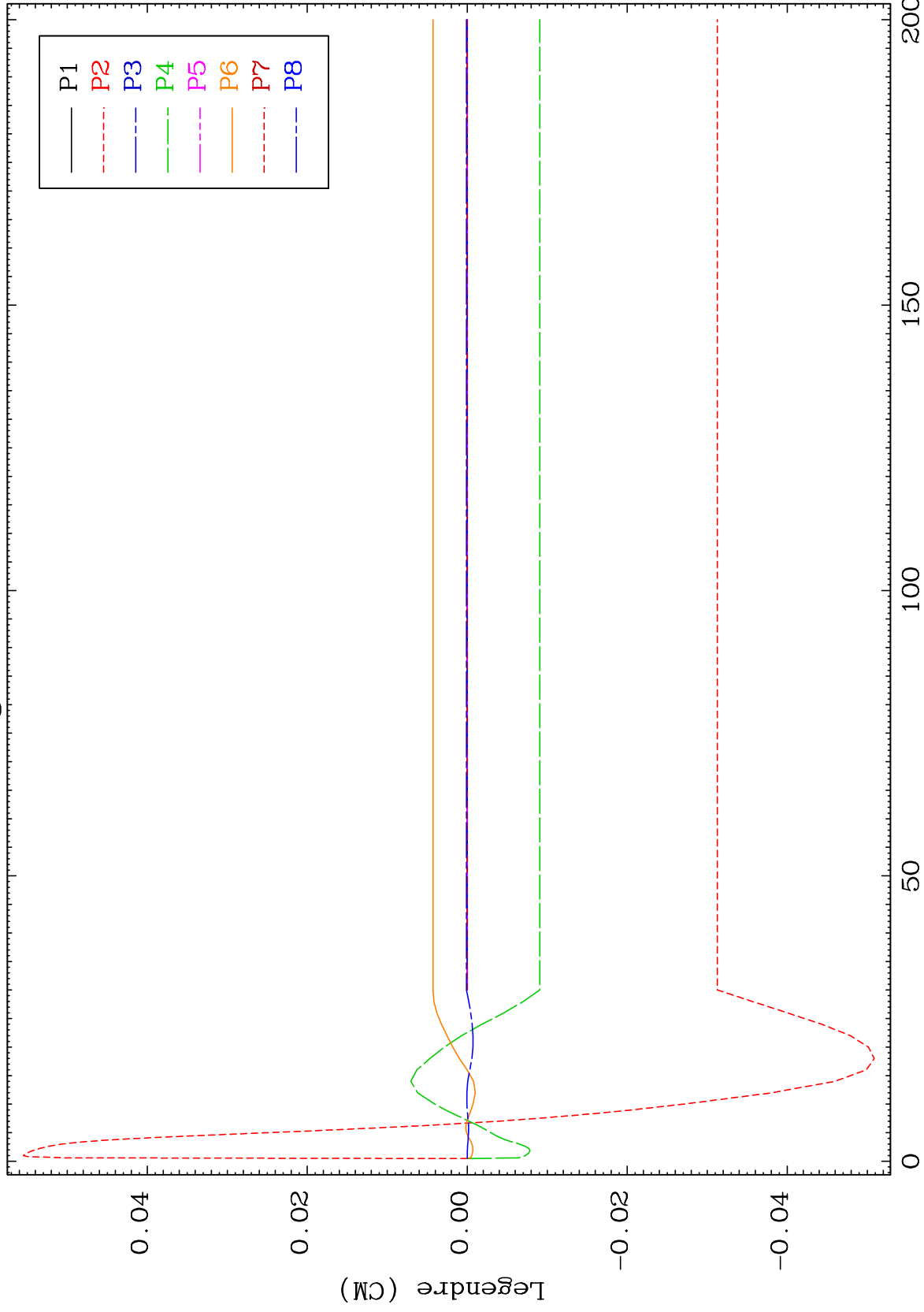
61-Pm-138



MAT 6122

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

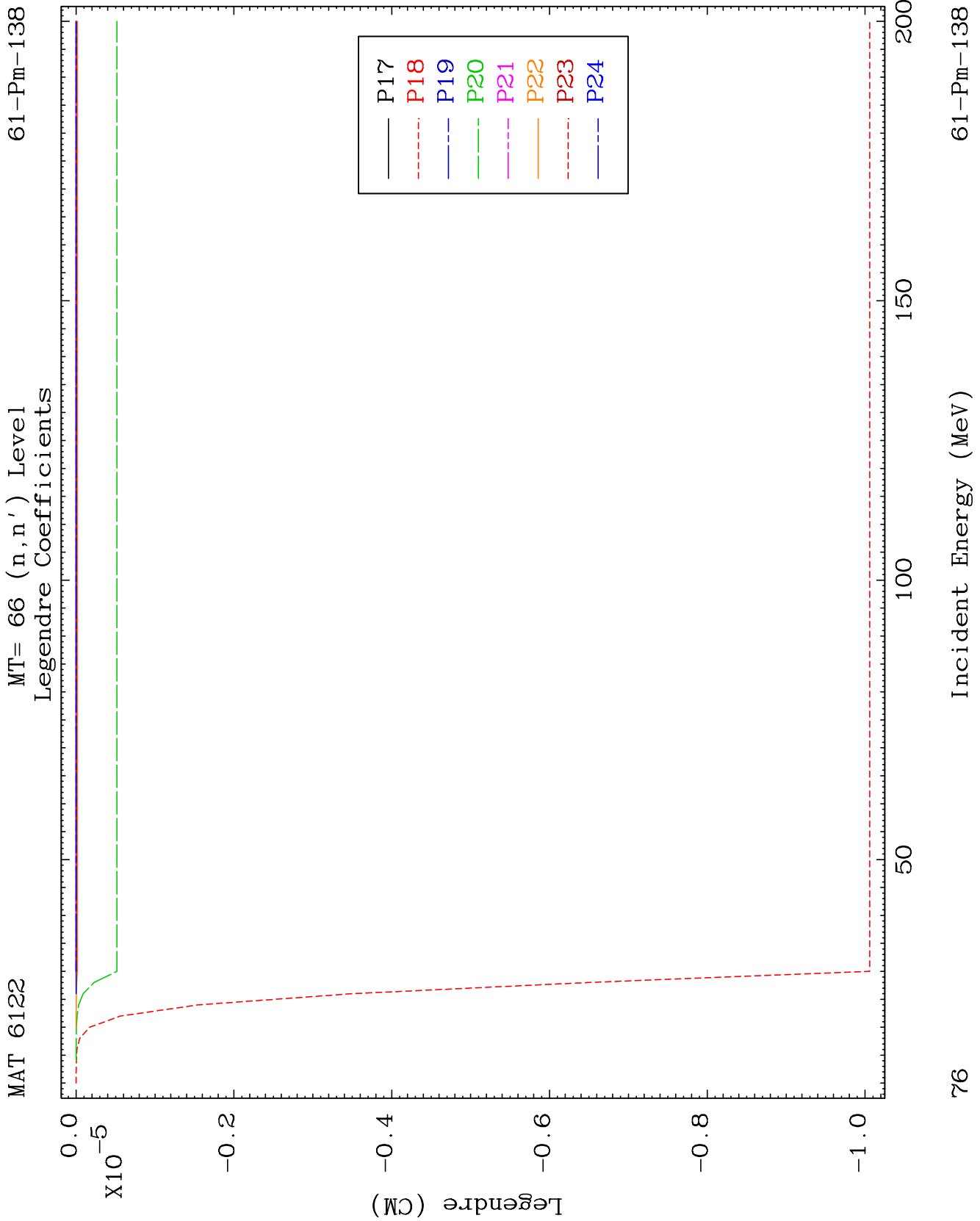
61-Pm-138



74

Incident Energy (MeV)

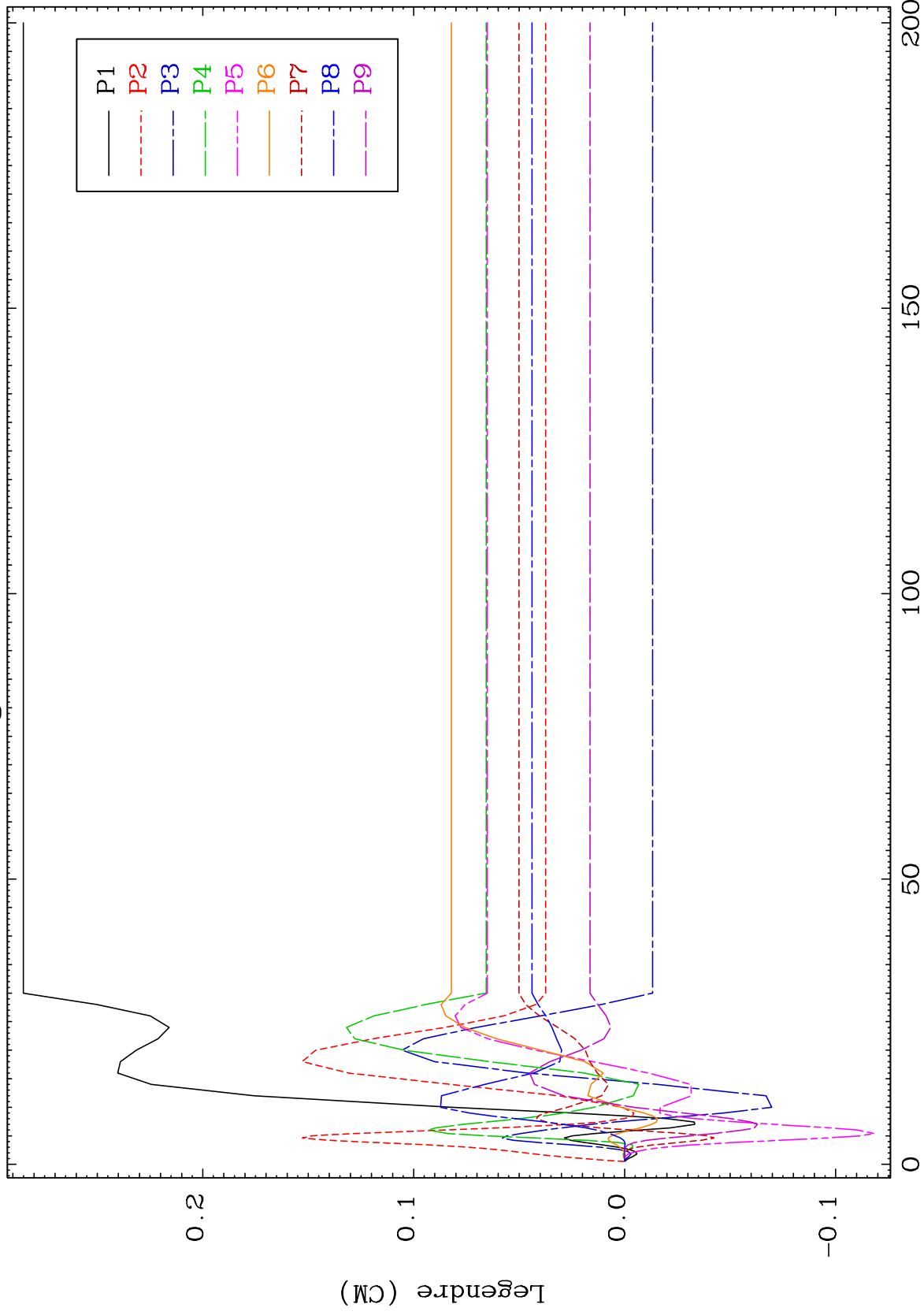
61-Pm-138



MAT 6122

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

61-Pm-138



77

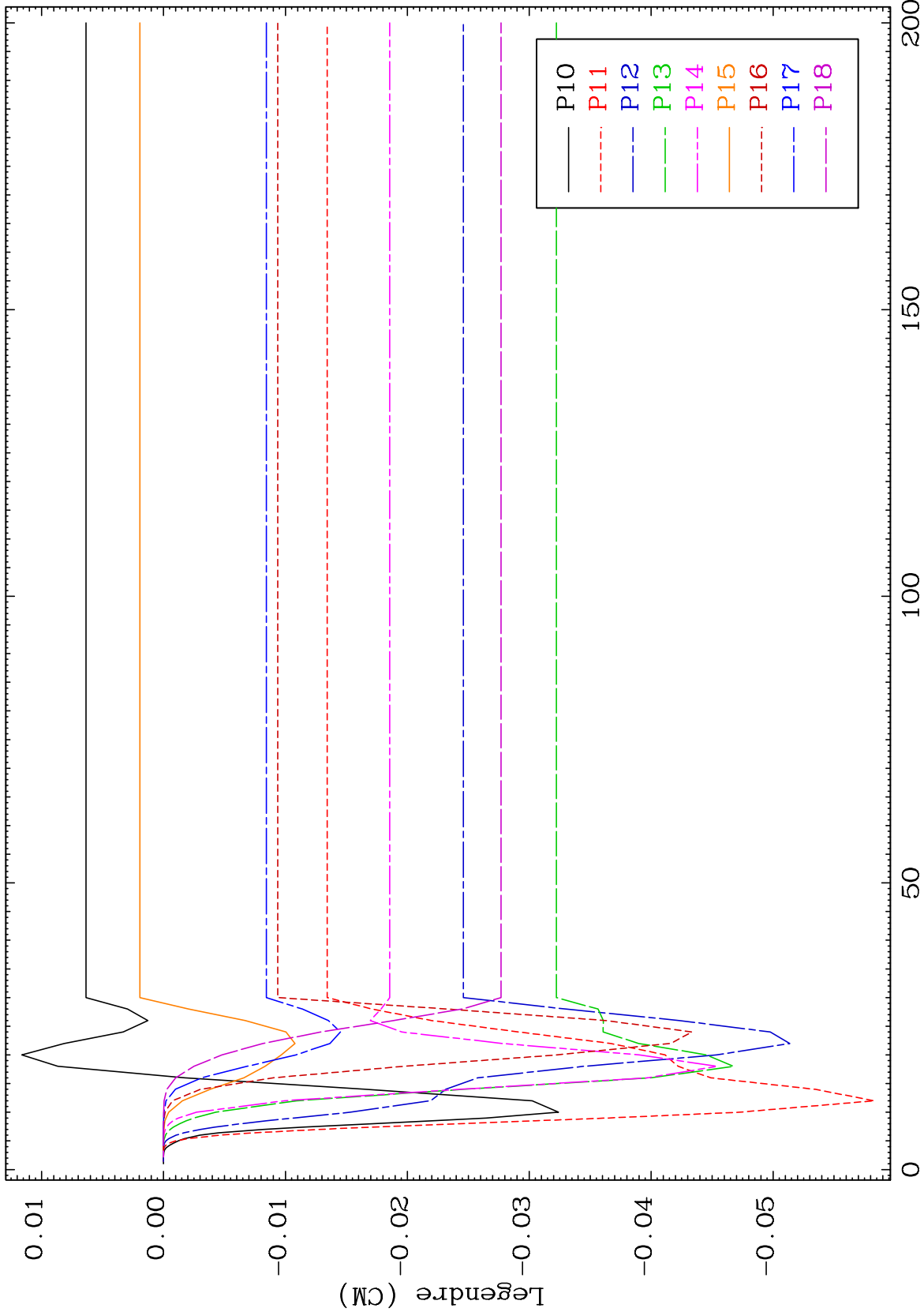
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

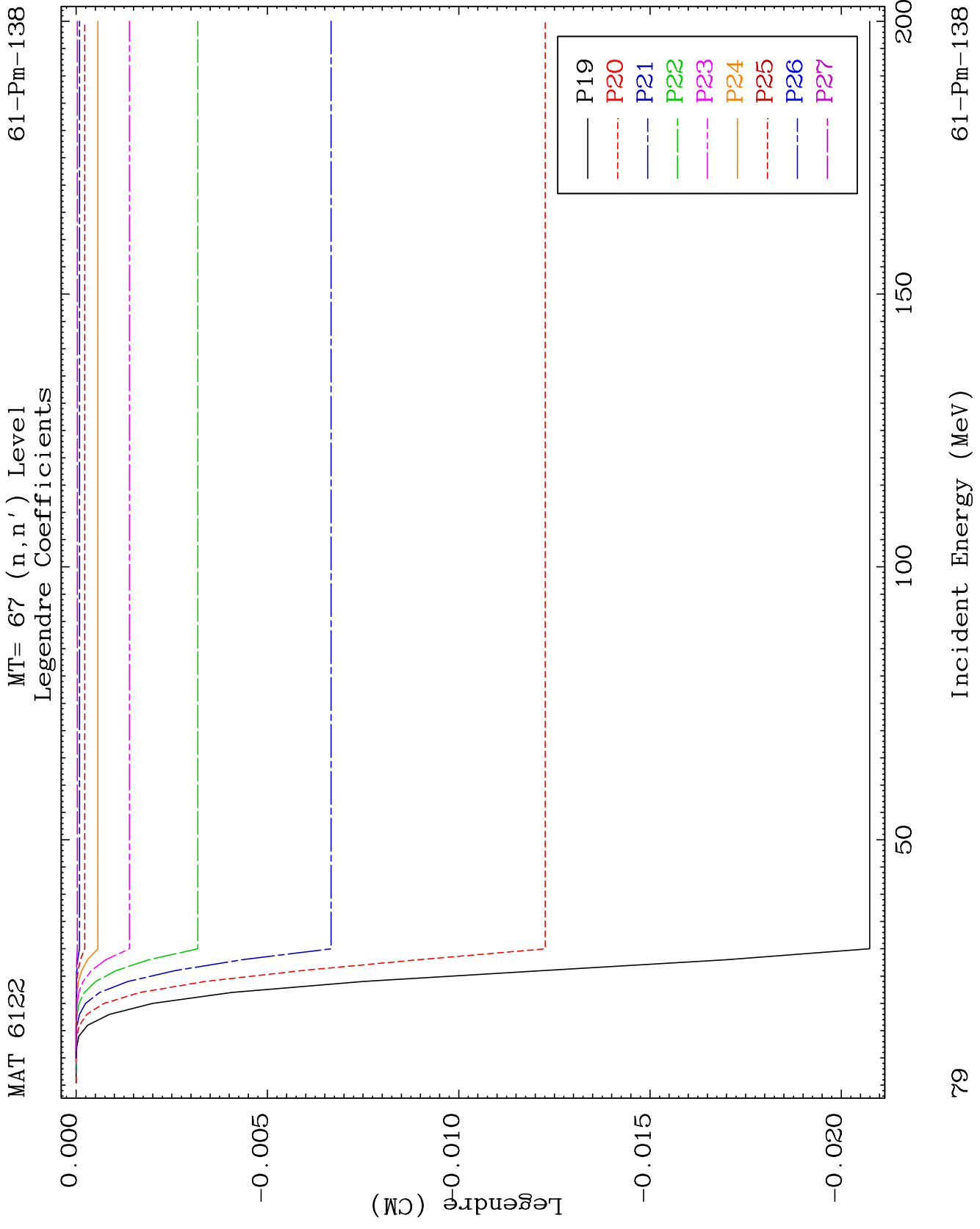
61-Pm-138

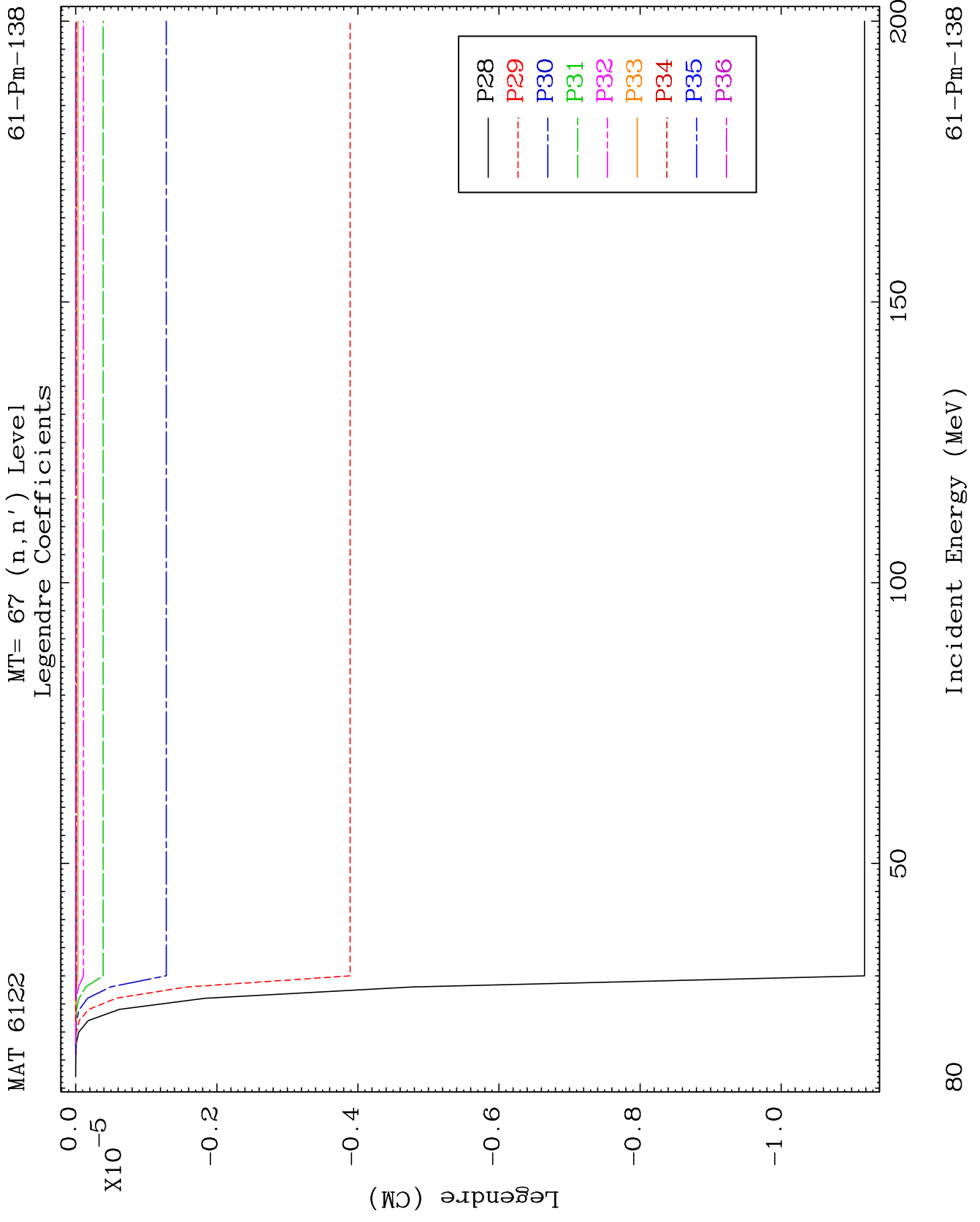


78

Incident Energy (MeV)

61-Pm-138

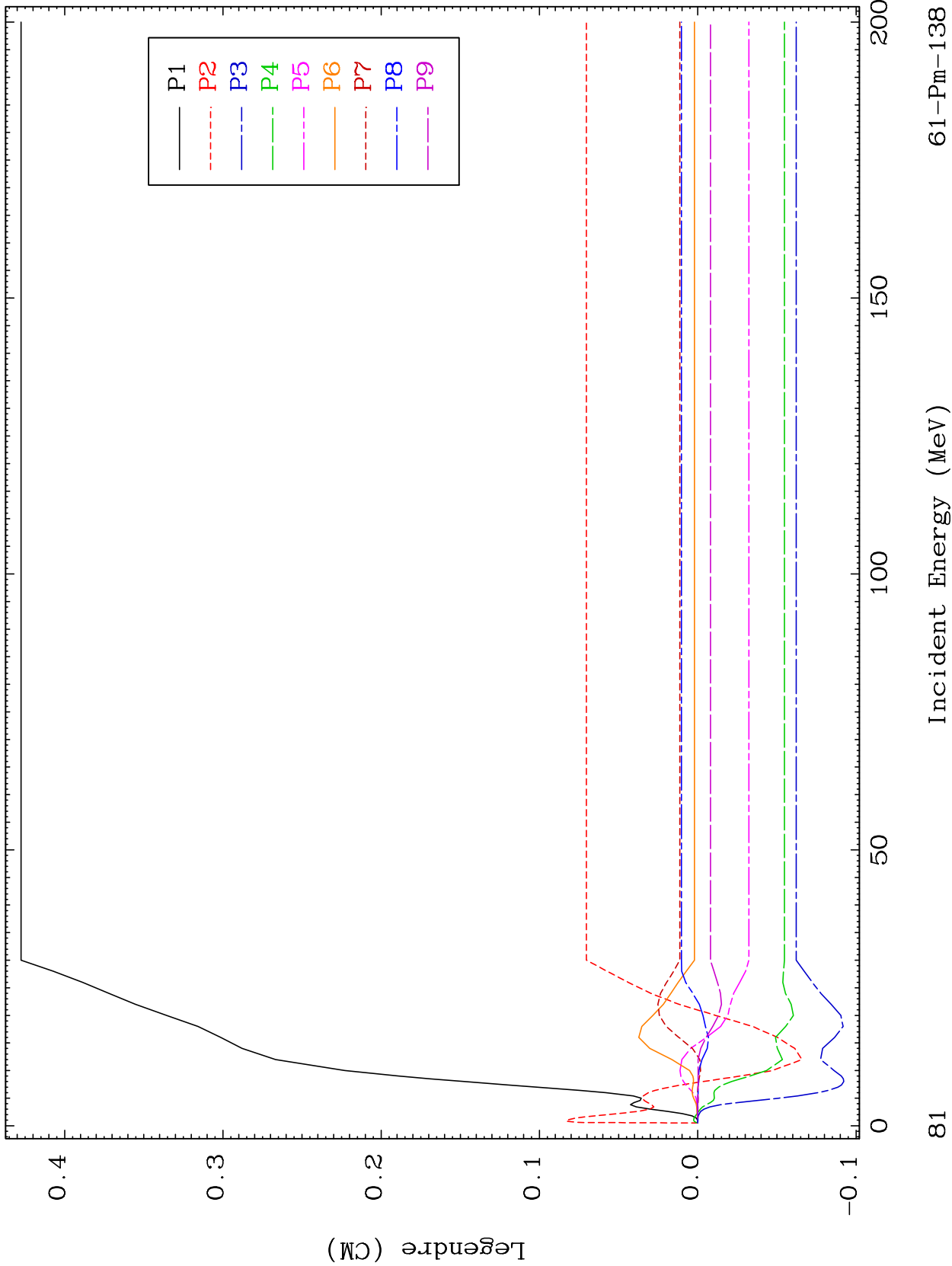




MAT 6122

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

61-Pm-138



81

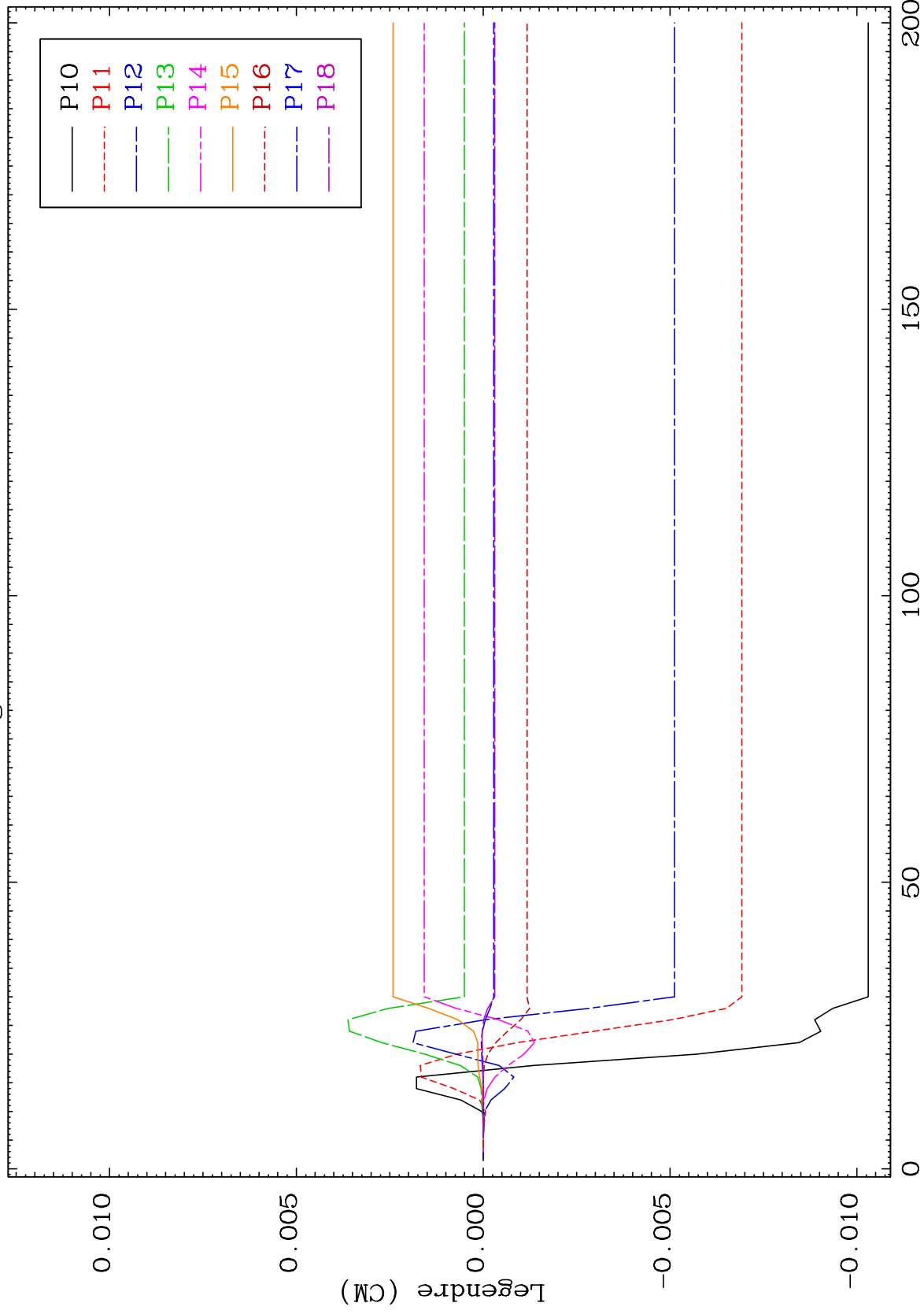
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



82

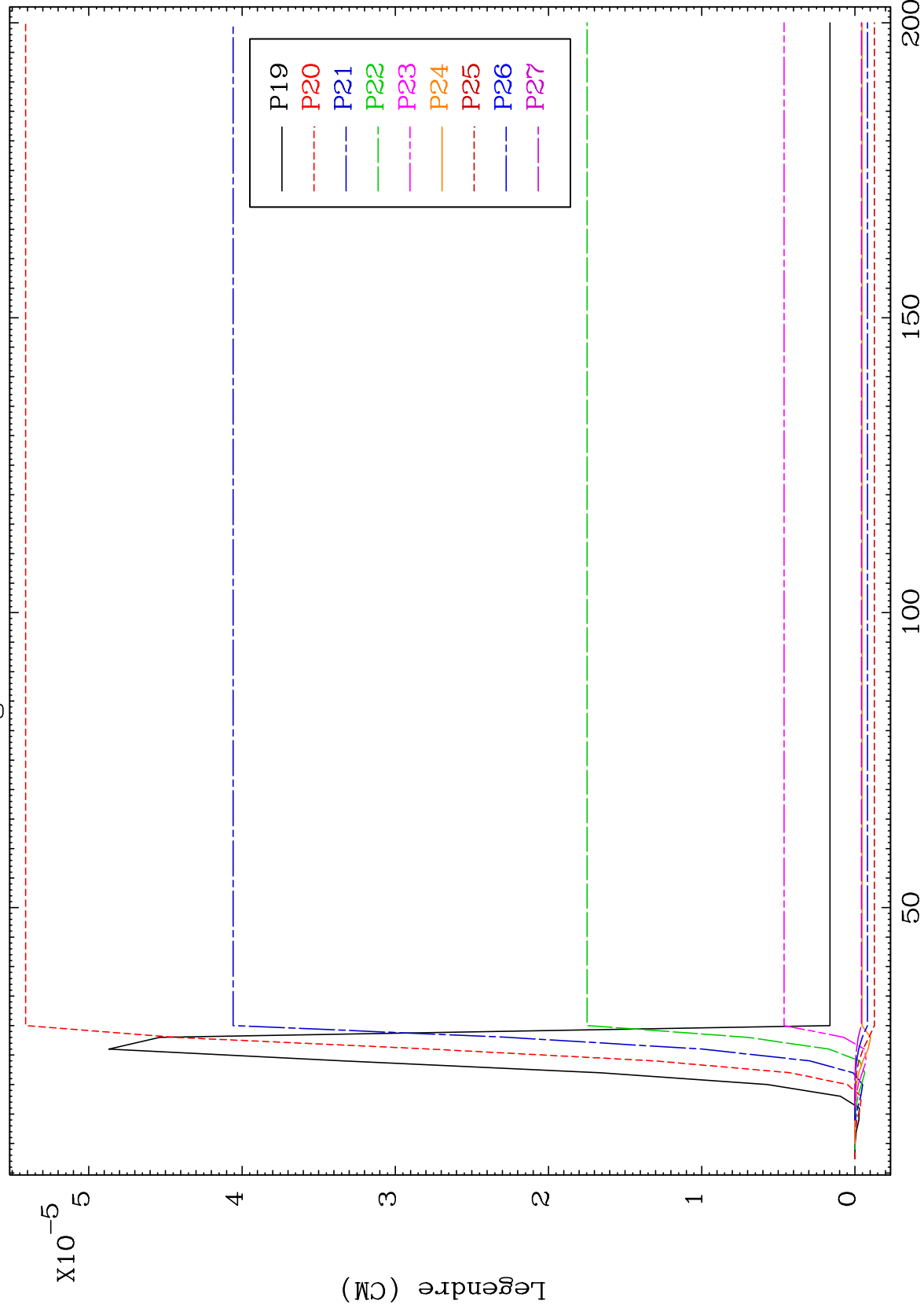
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



83

Incident Energy (MeV)

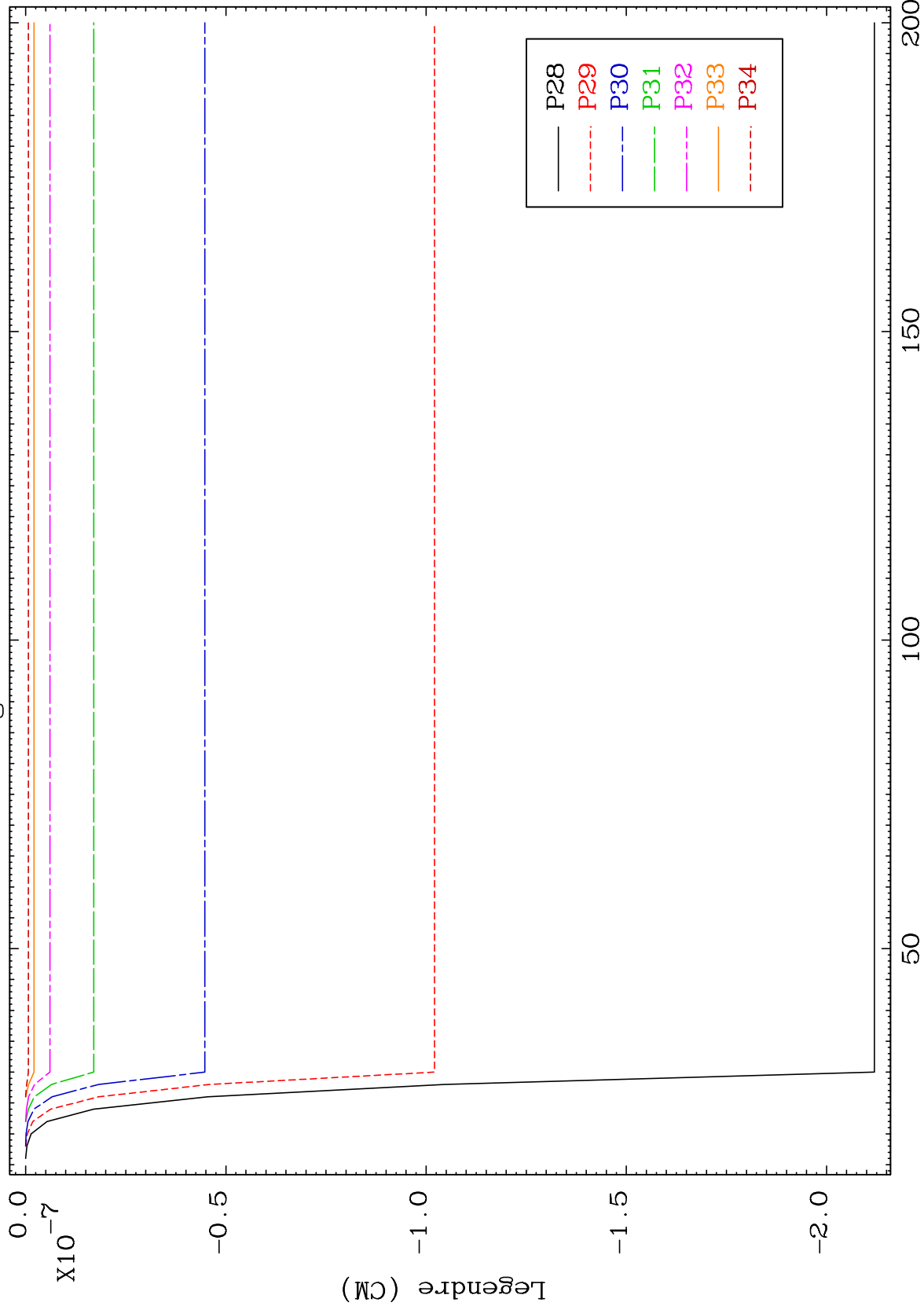
61-Pm-138

MAT 6122

MT= 68 (n,n') Level

61-Pm-138

Legendre Coefficients



84

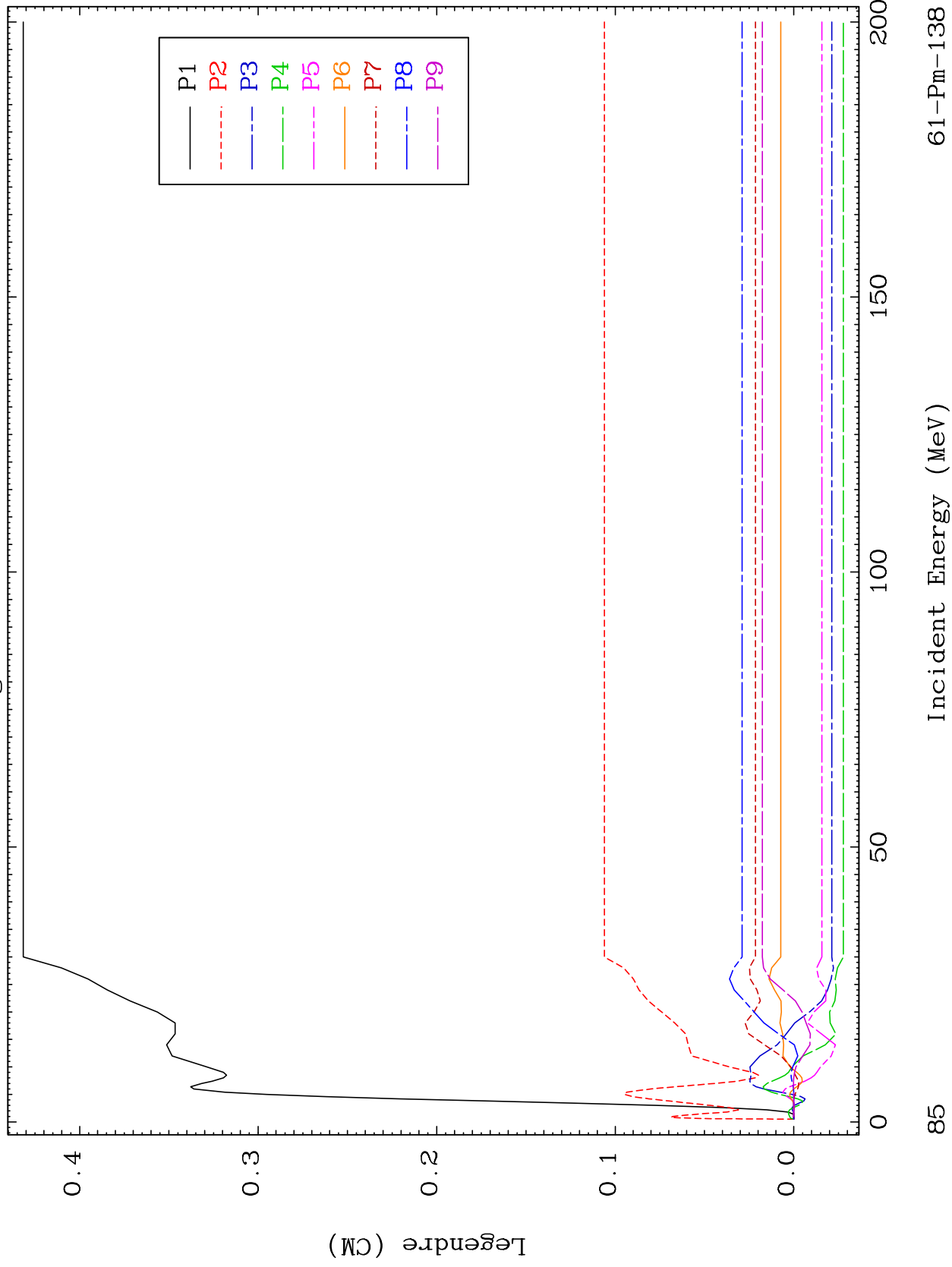
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



61-Pm-138

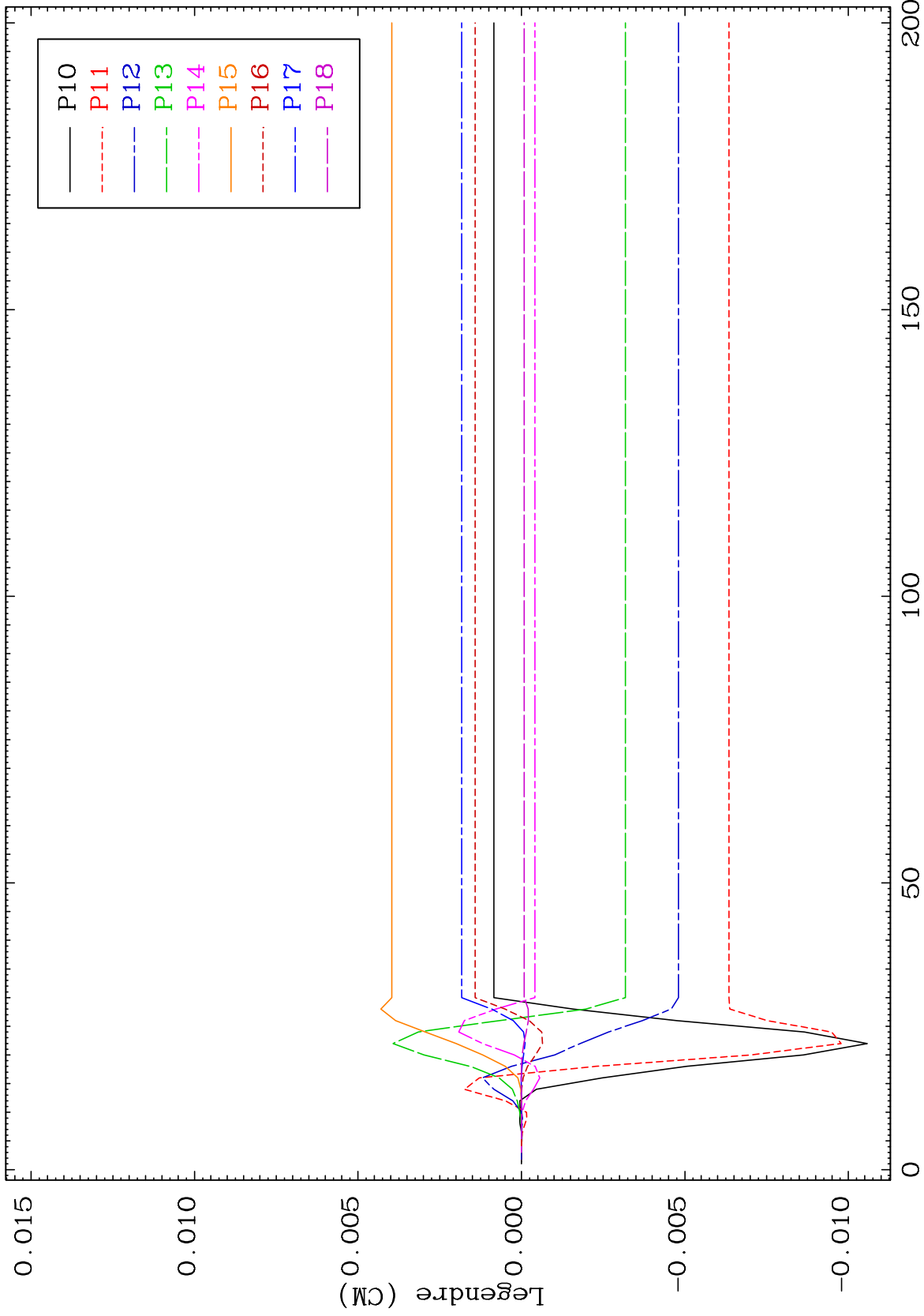
Incident Energy (MeV)

85

MAT 6122

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

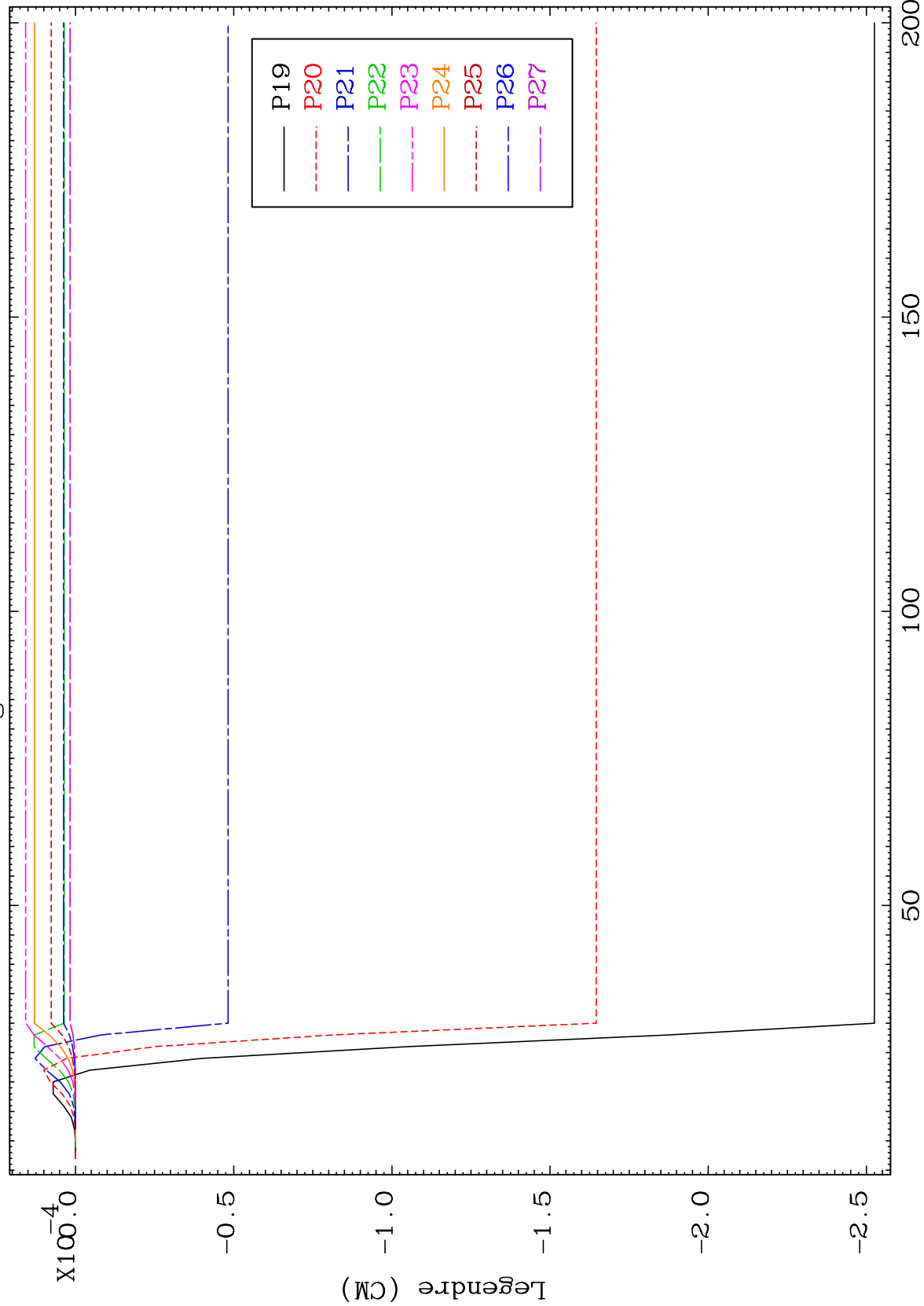
61-Pm-138



86

Incident Energy (MeV)

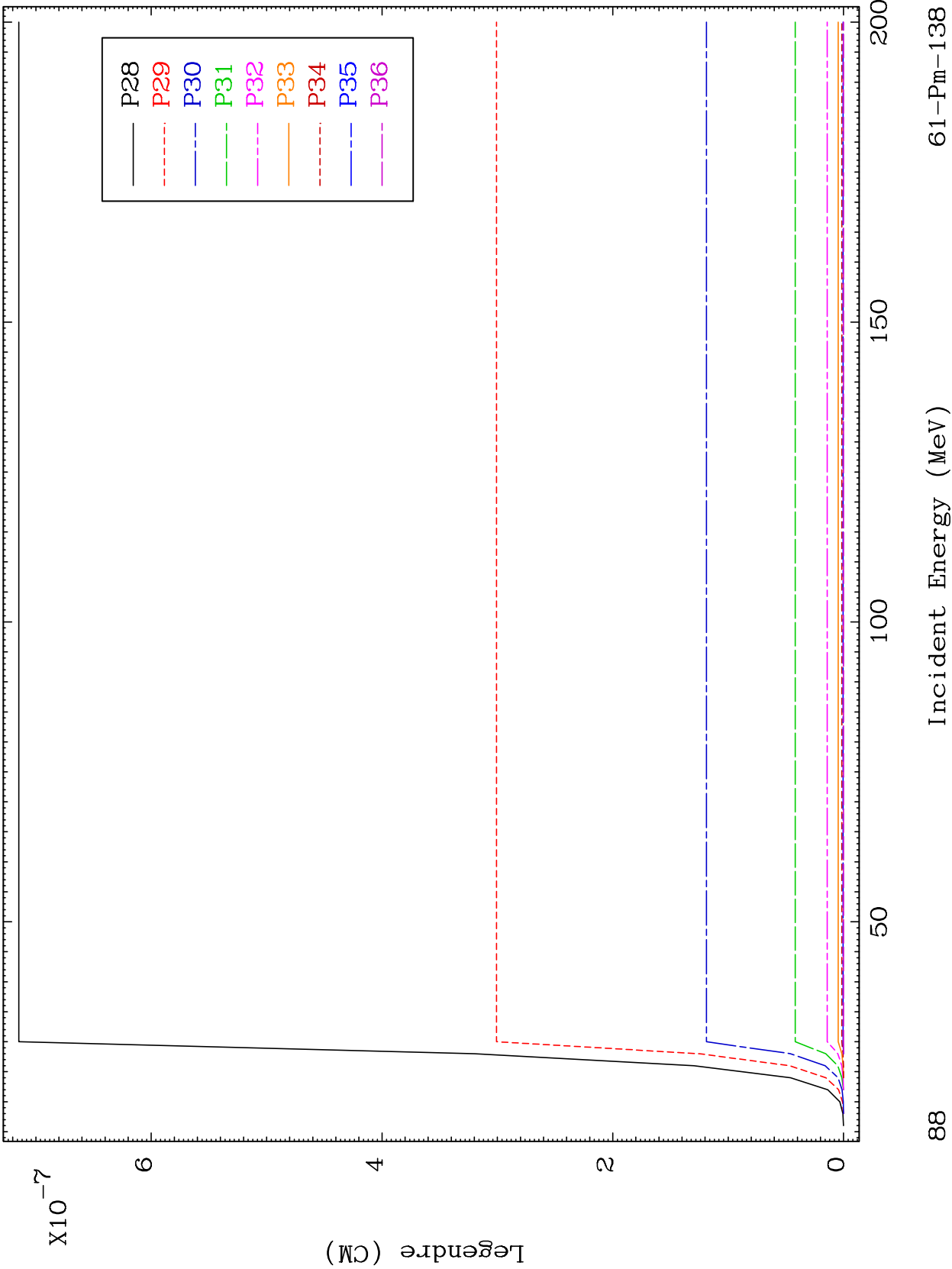
61-Pm-138



MAT 6122

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

61-Pm-138



88

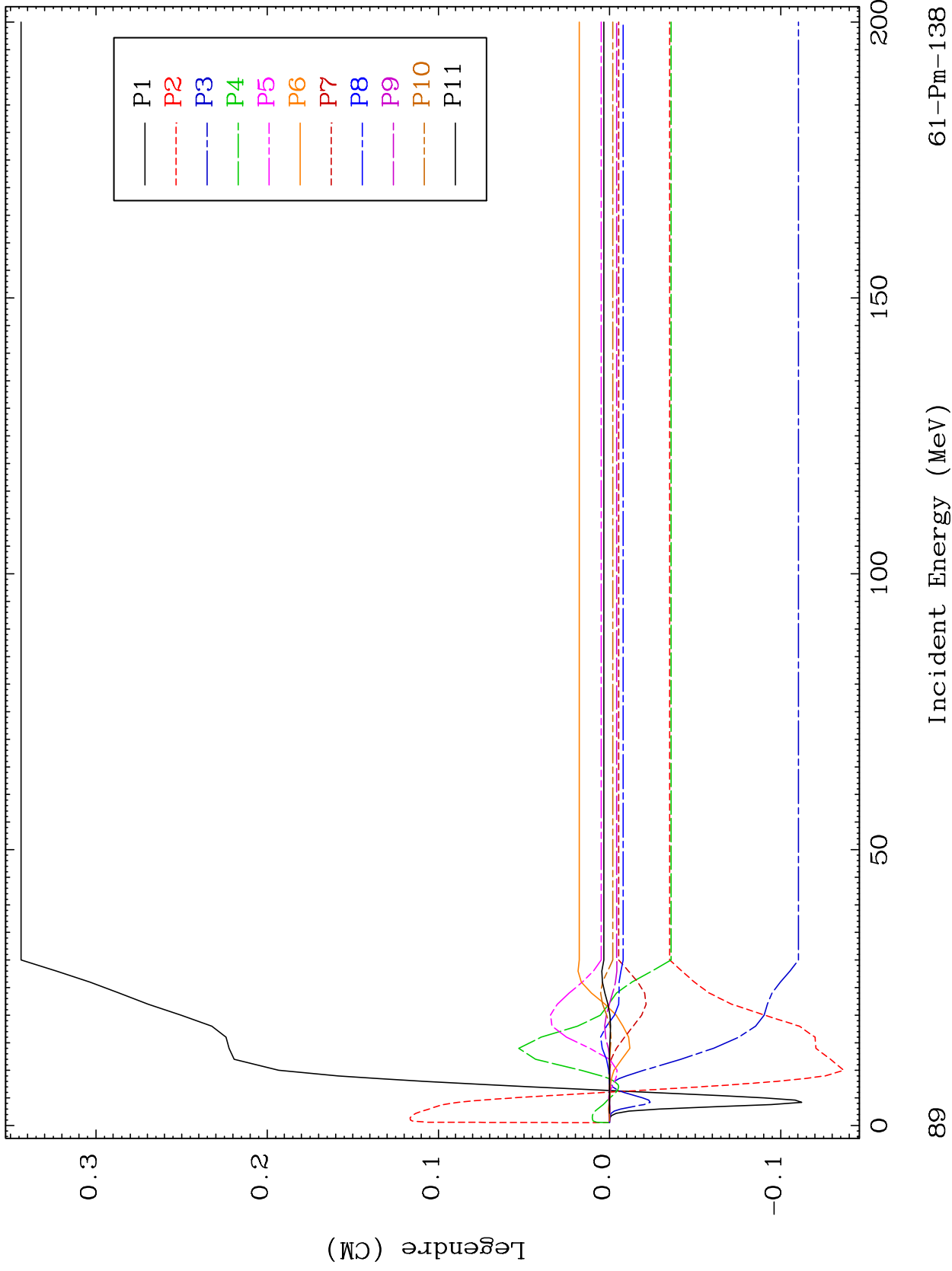
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



61-Pm-138

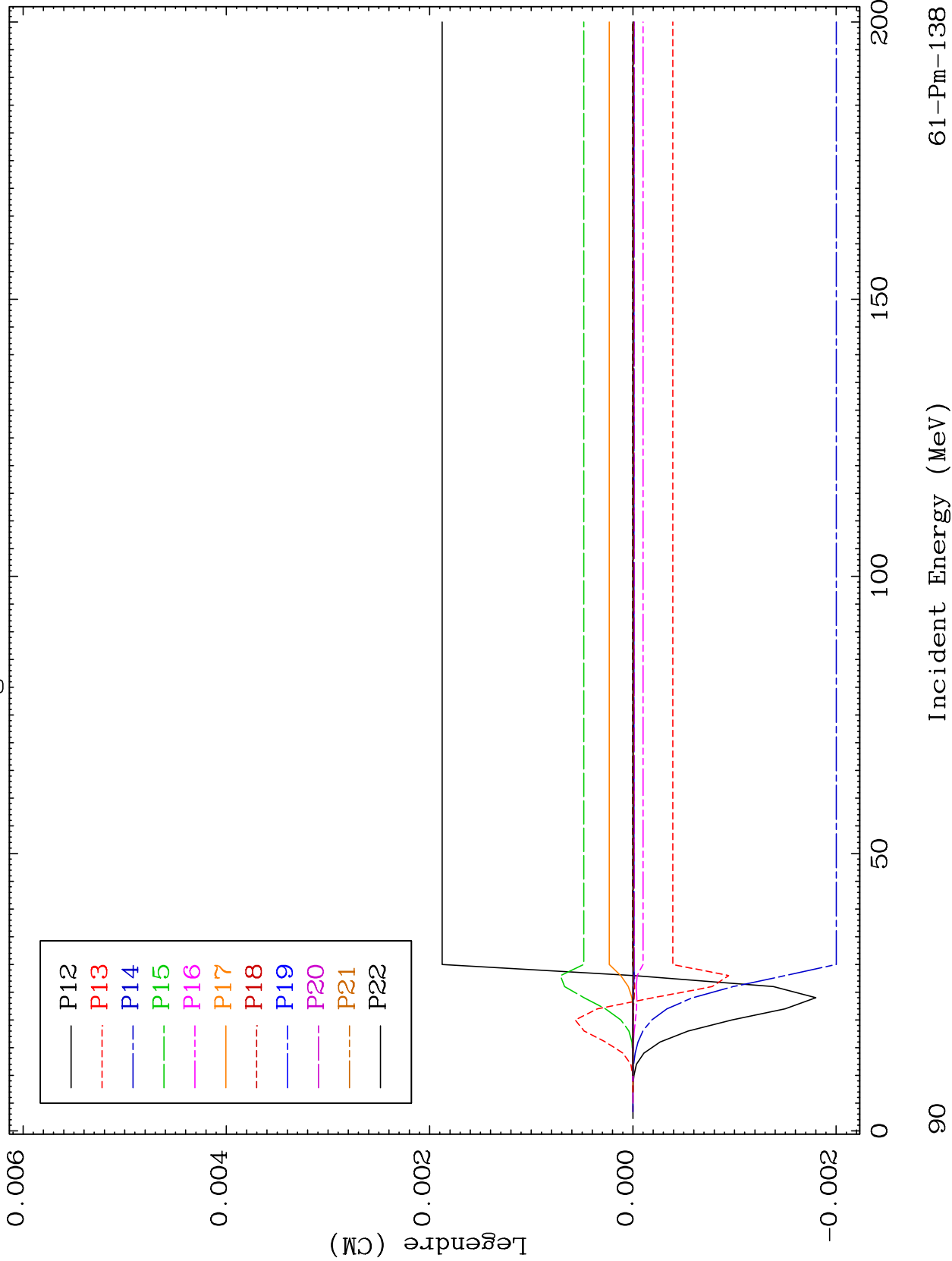
Incident Energy (MeV)

89

MAT 61222

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

61-Pm-138



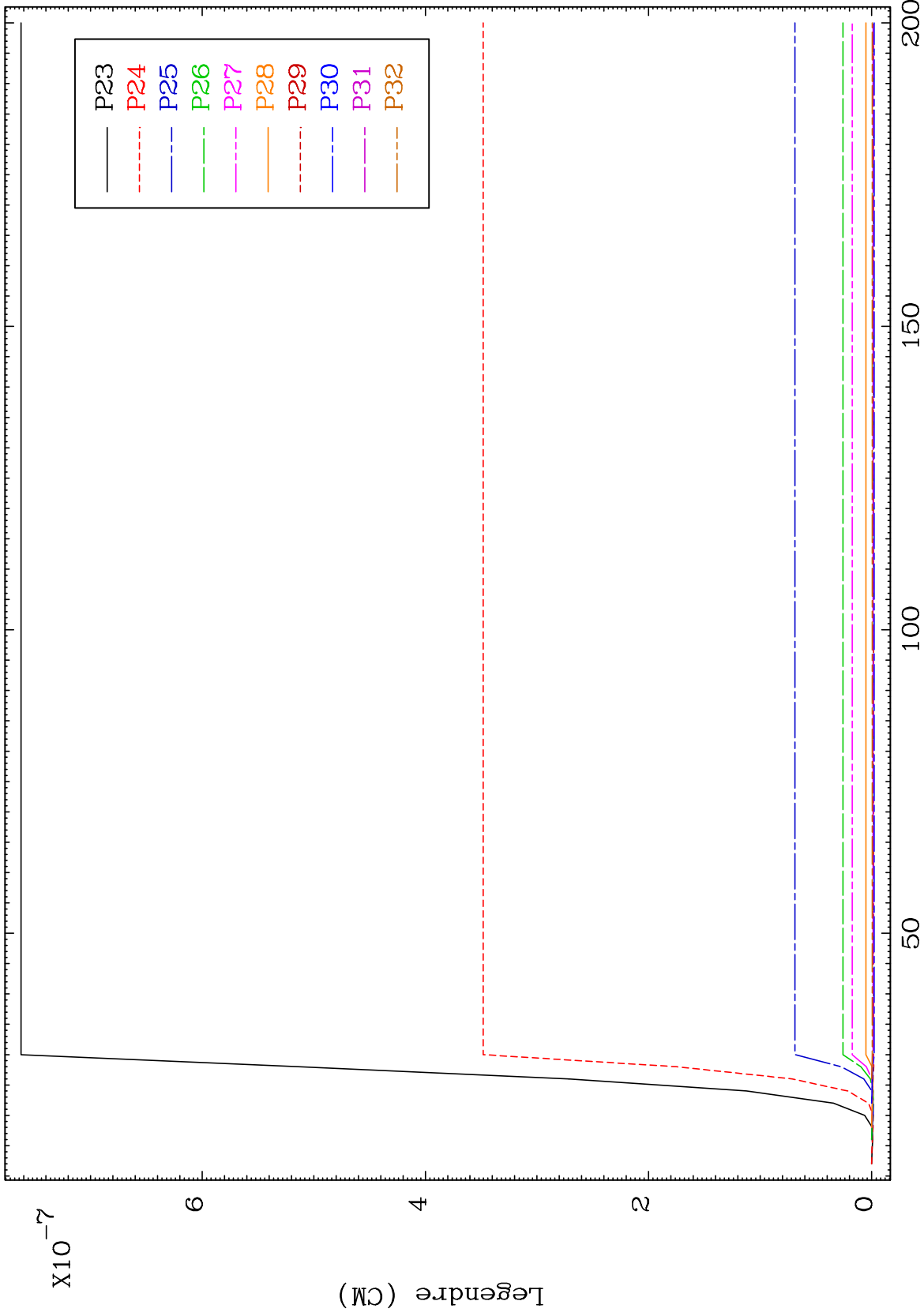
61-Pm-138

Incident Energy (MeV)

MAT 6122

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

61-Pm-138



91

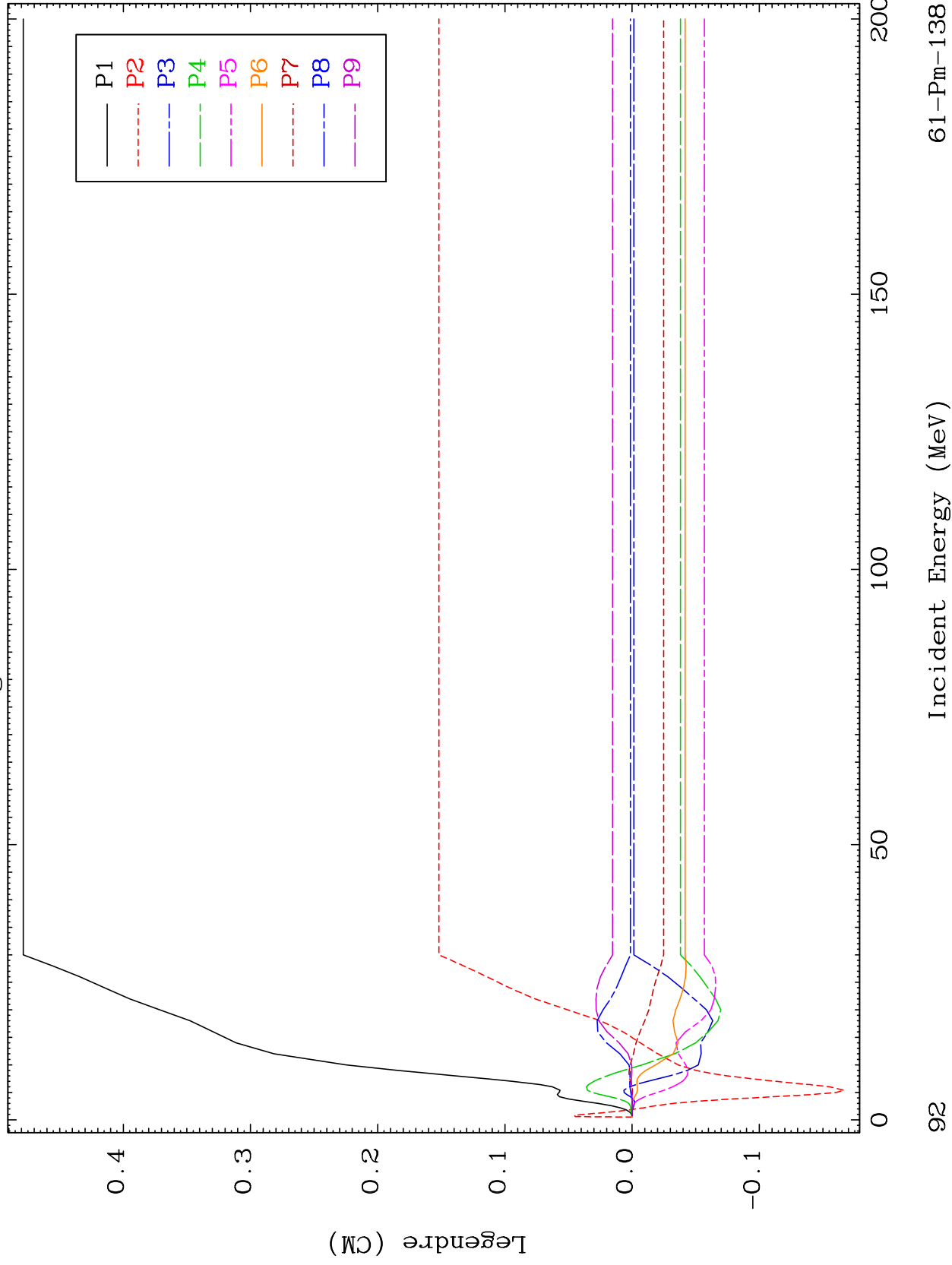
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



61-Pm-138

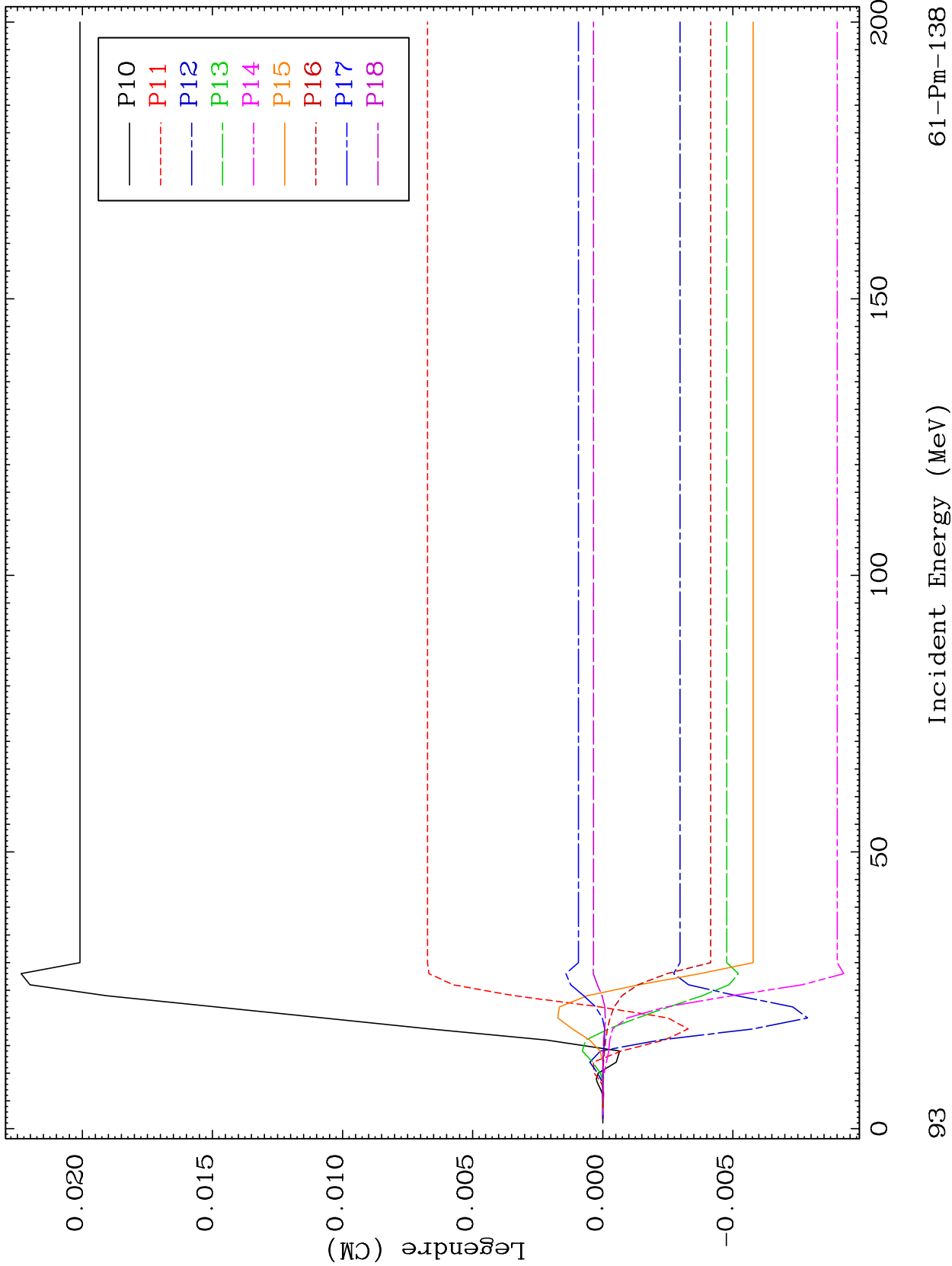
Incident Energy (MeV)

92

MAT 6122

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

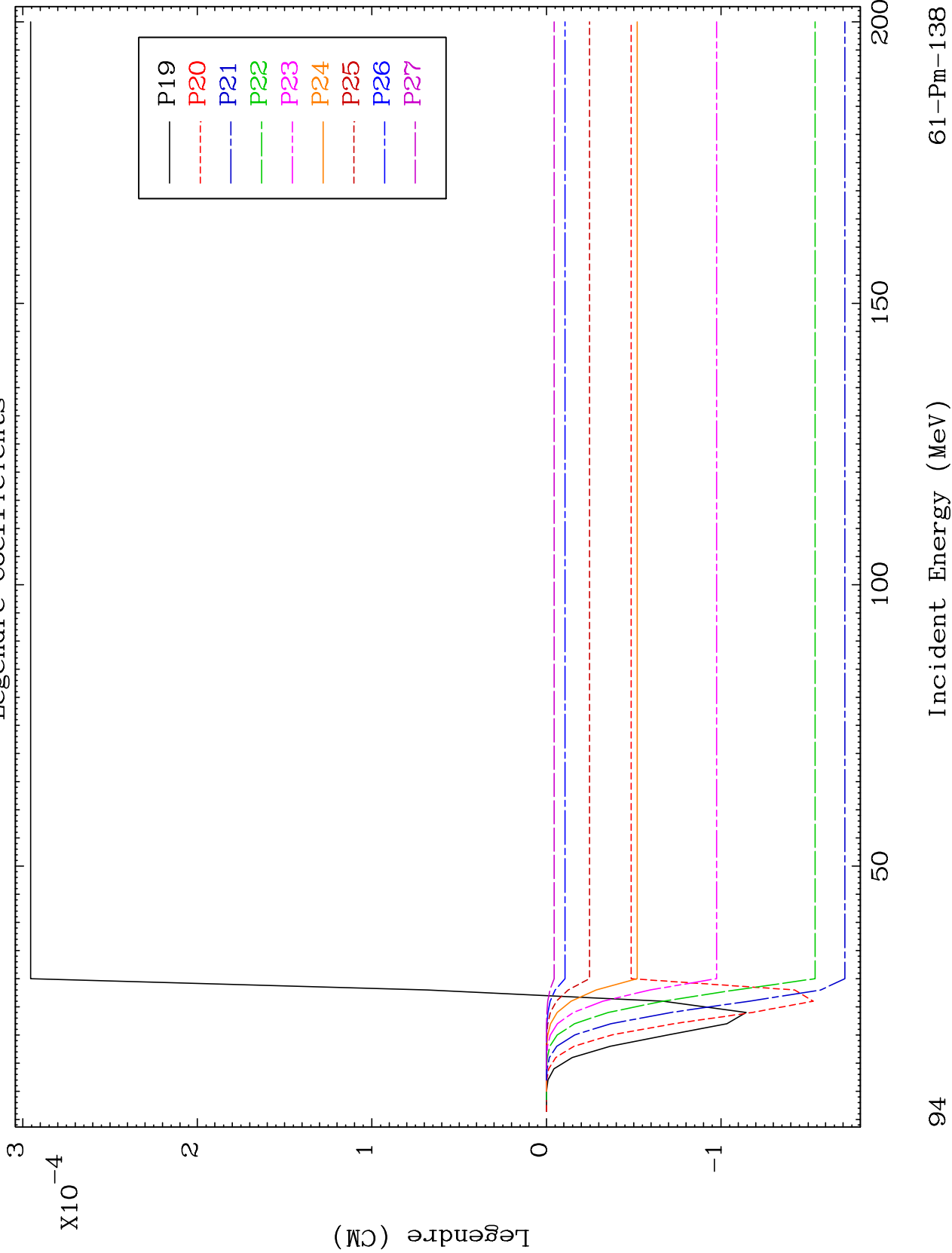
61-Pm-138

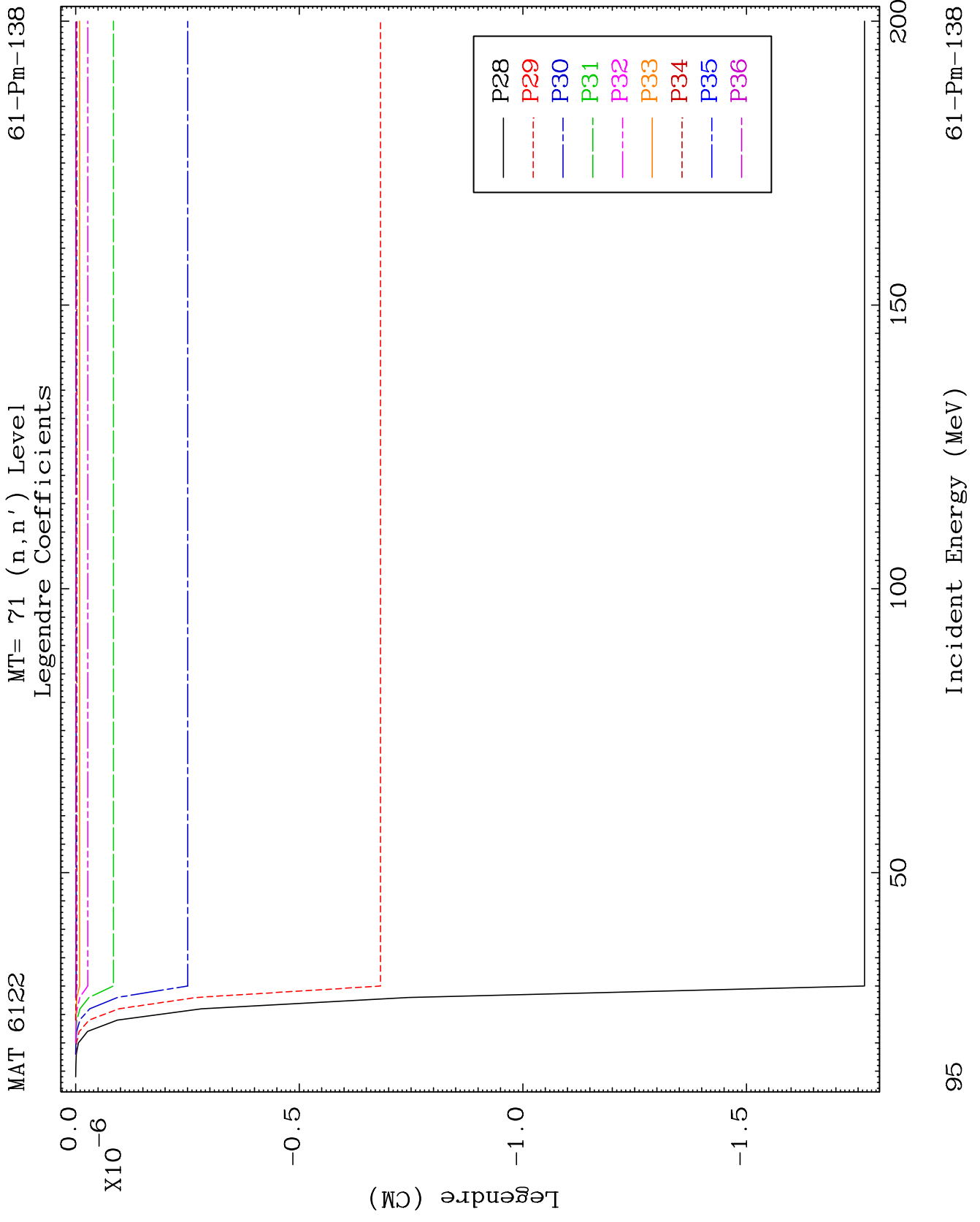


93

Incident Energy (MeV)

61-Pm-138

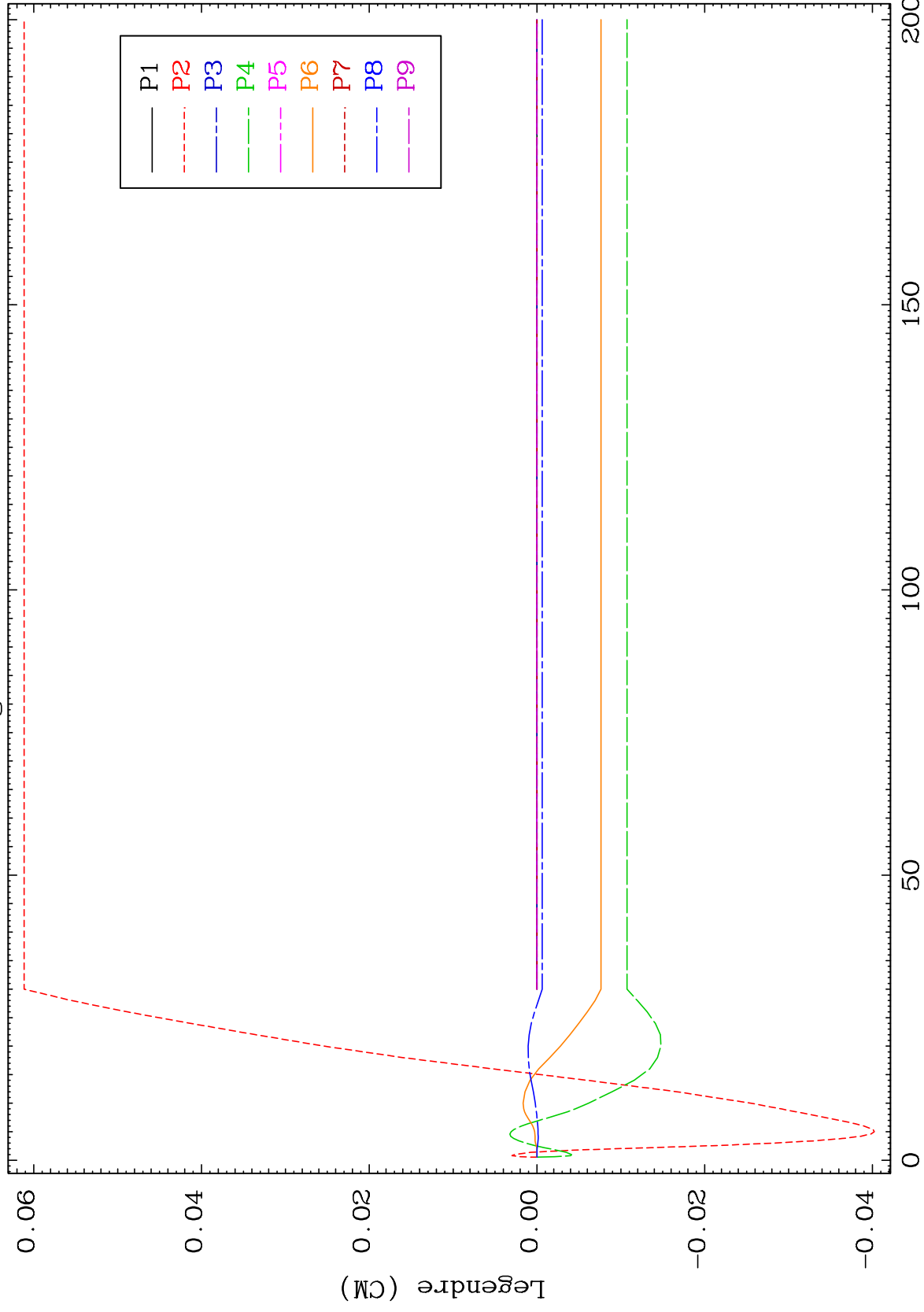




MAT 61222

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

61-Pm-138



96

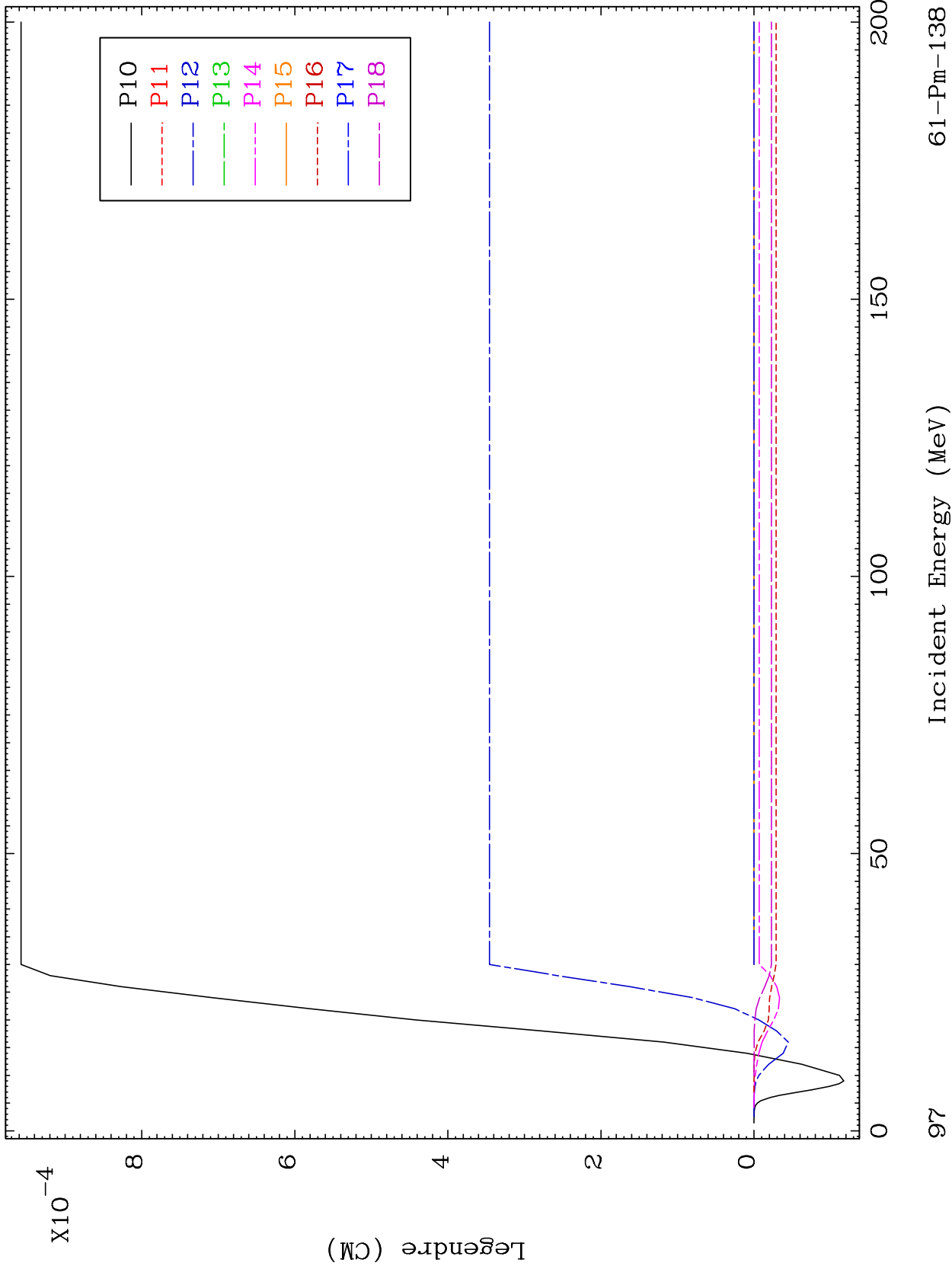
Incident Energy (MeV)

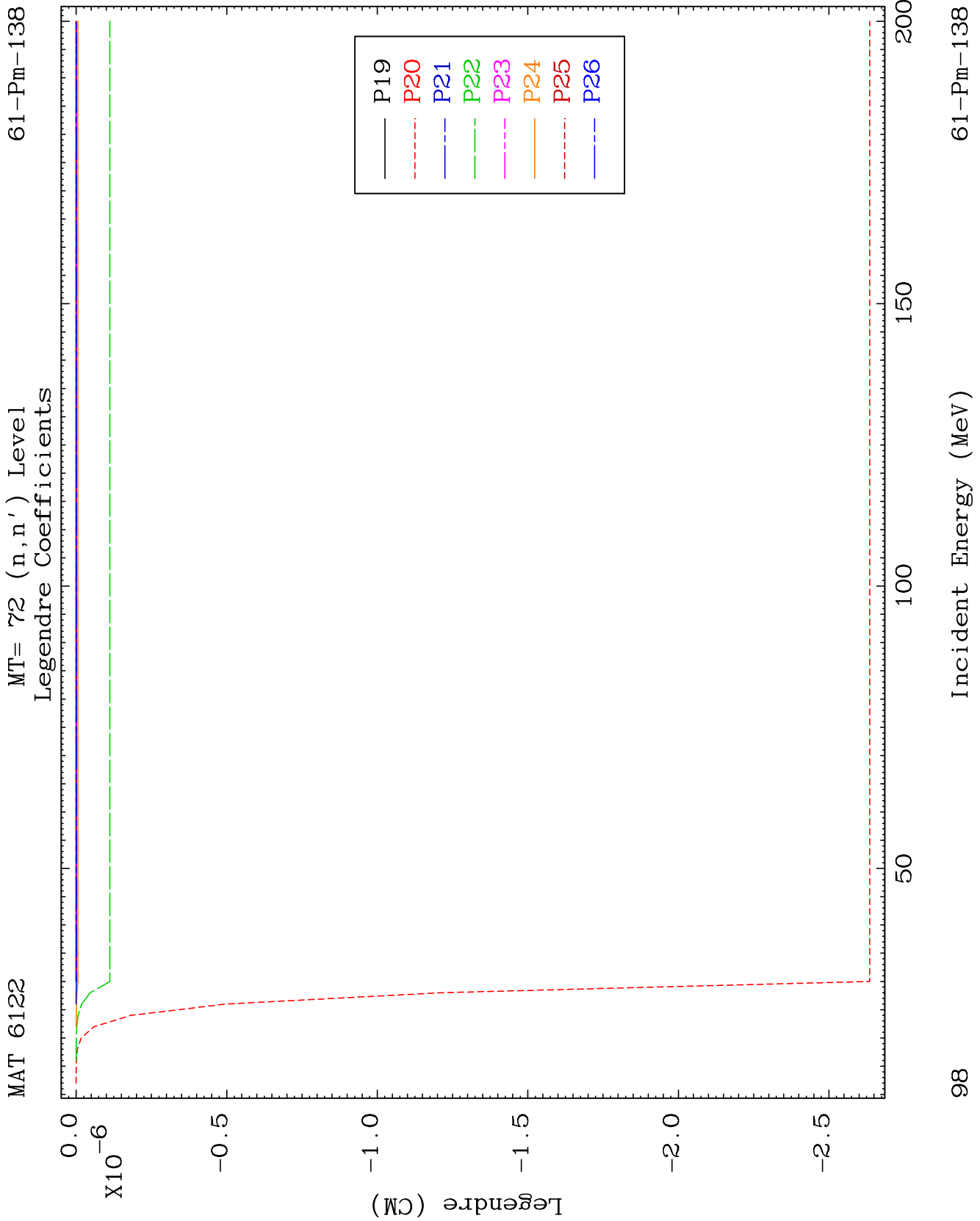
61-Pm-138

MAT 6122

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

61-Pm-138

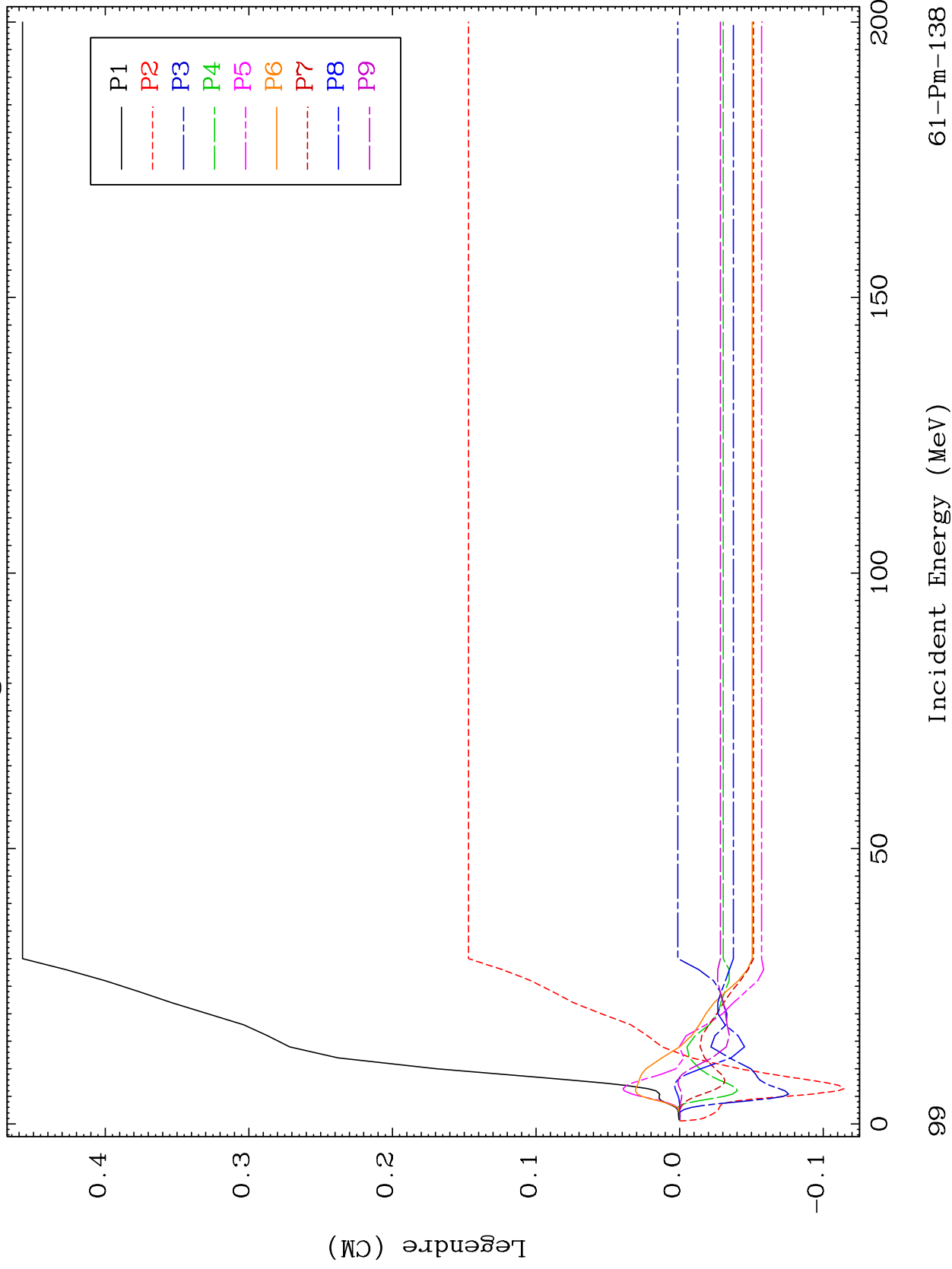




MAT 6122

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

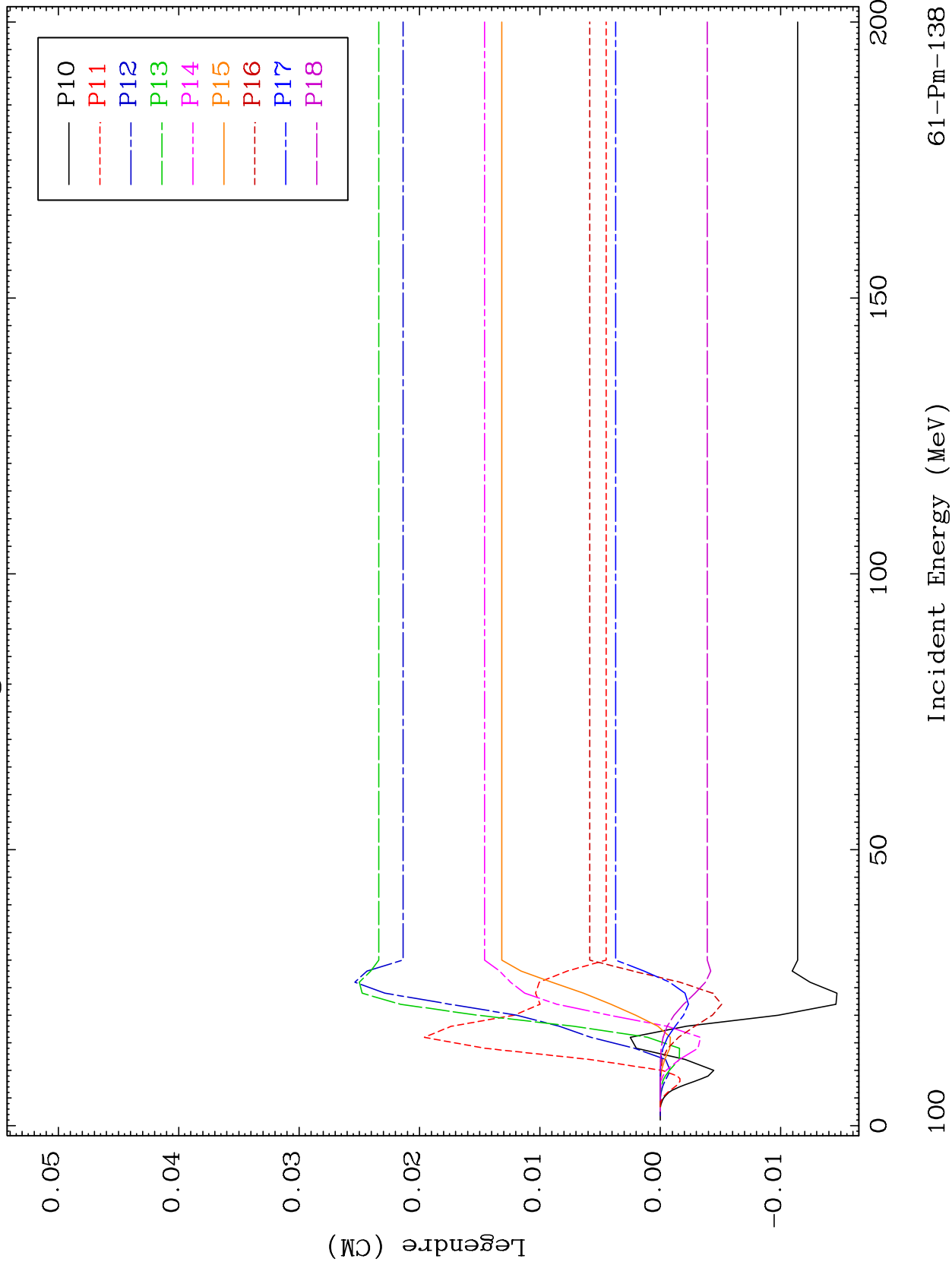
61-Pm-138



MAT 6122

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

61-Pm-138

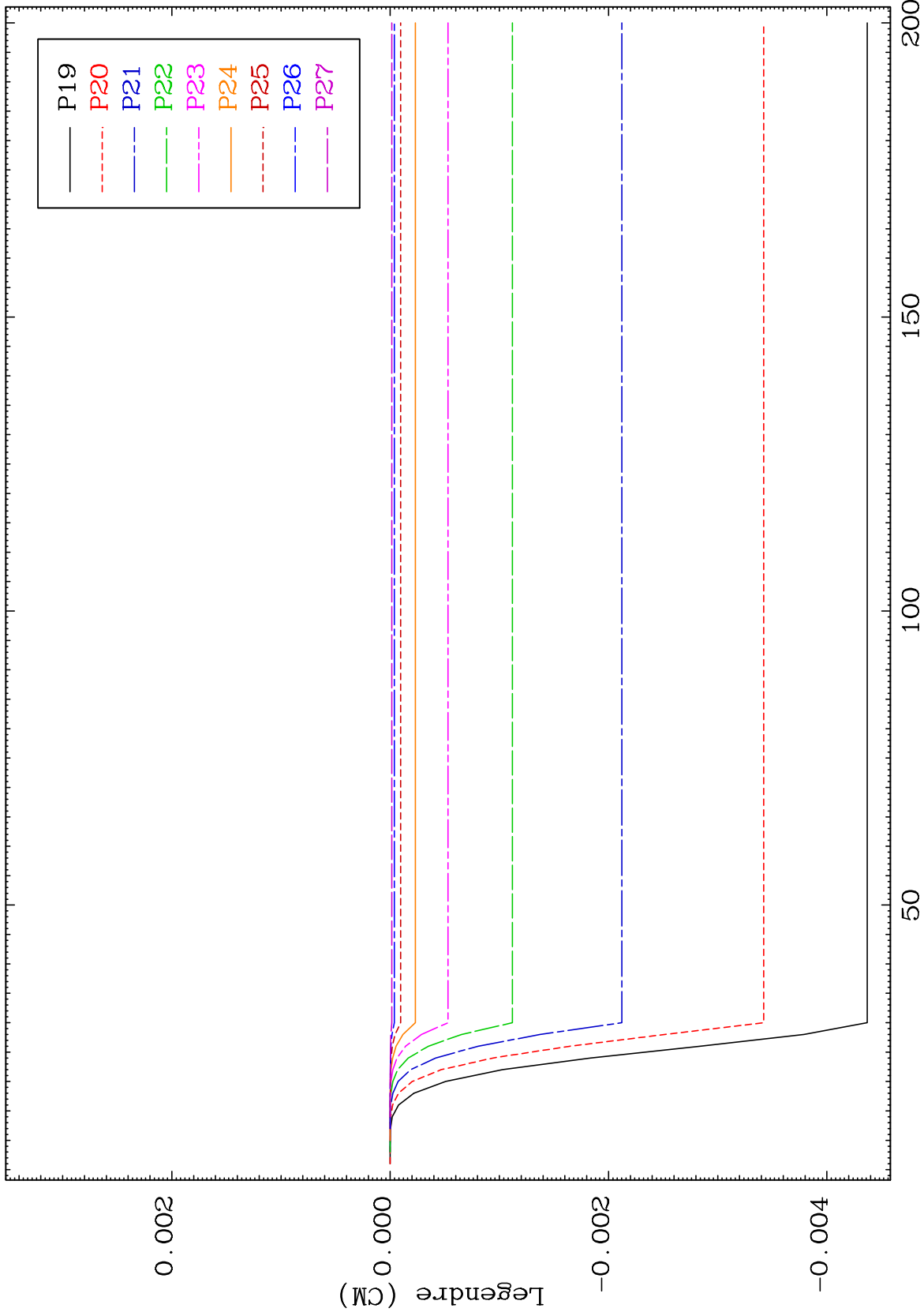


61-Pm-138

MAT 6122

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

61-Pm-138



101

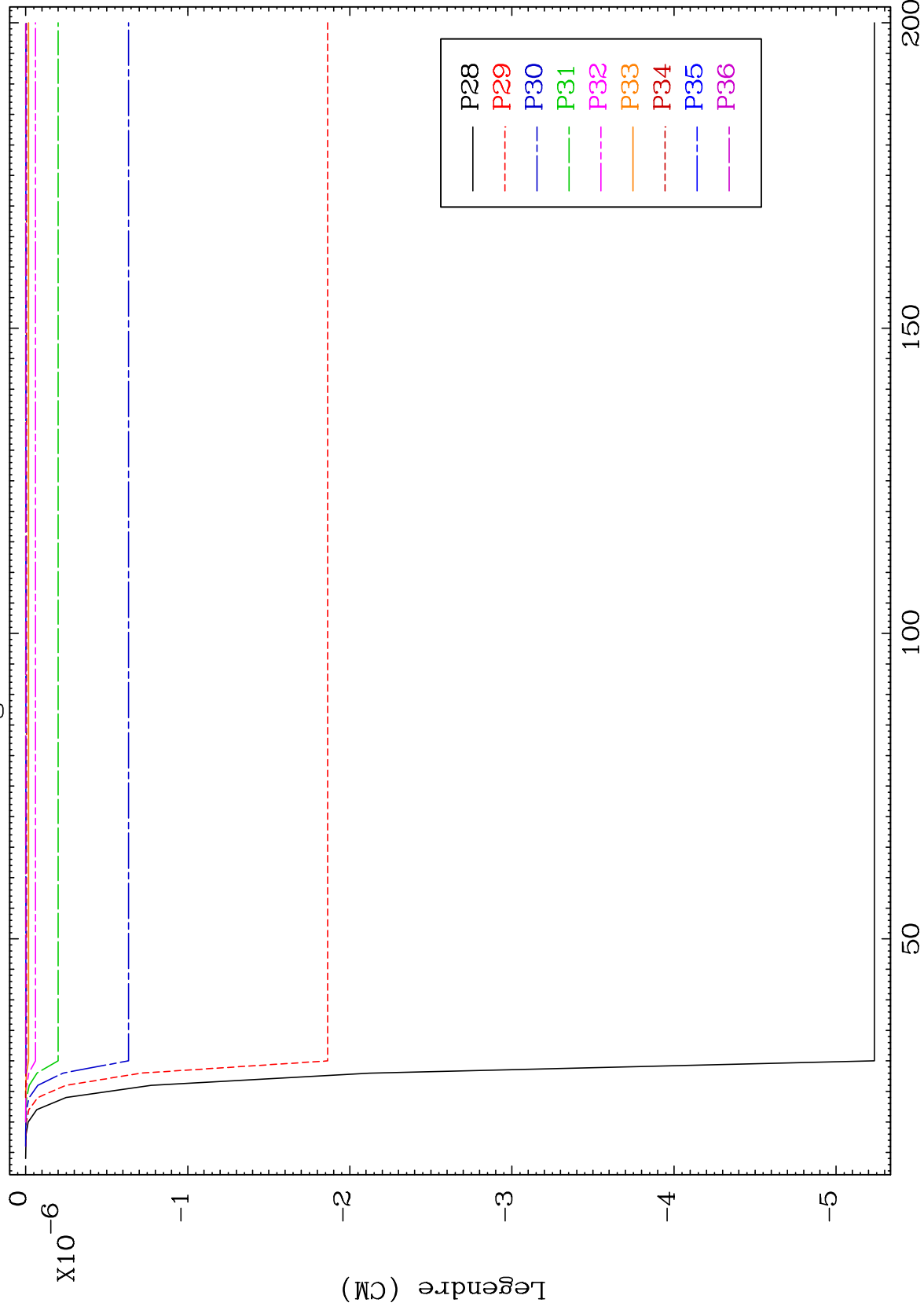
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



102

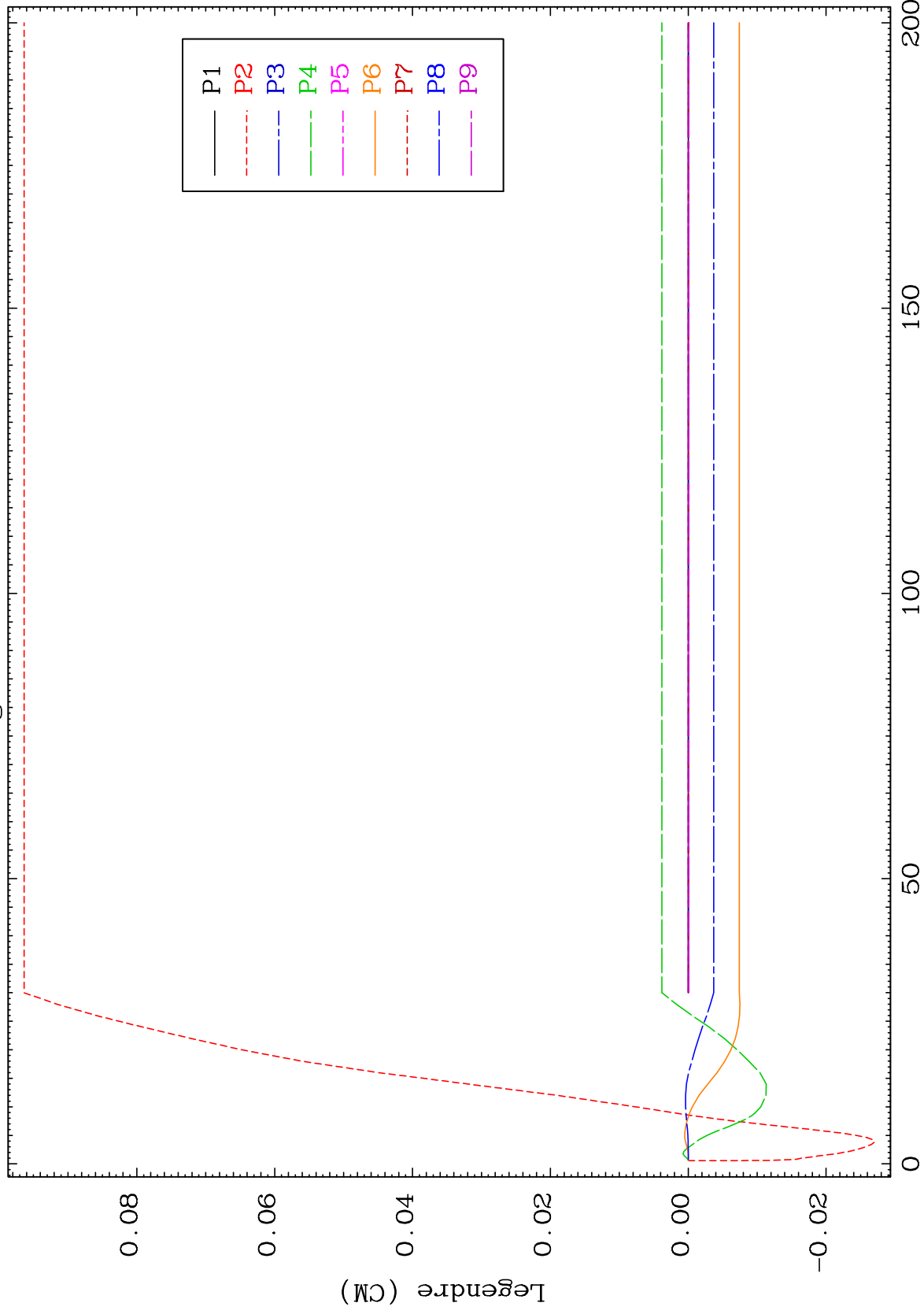
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



103

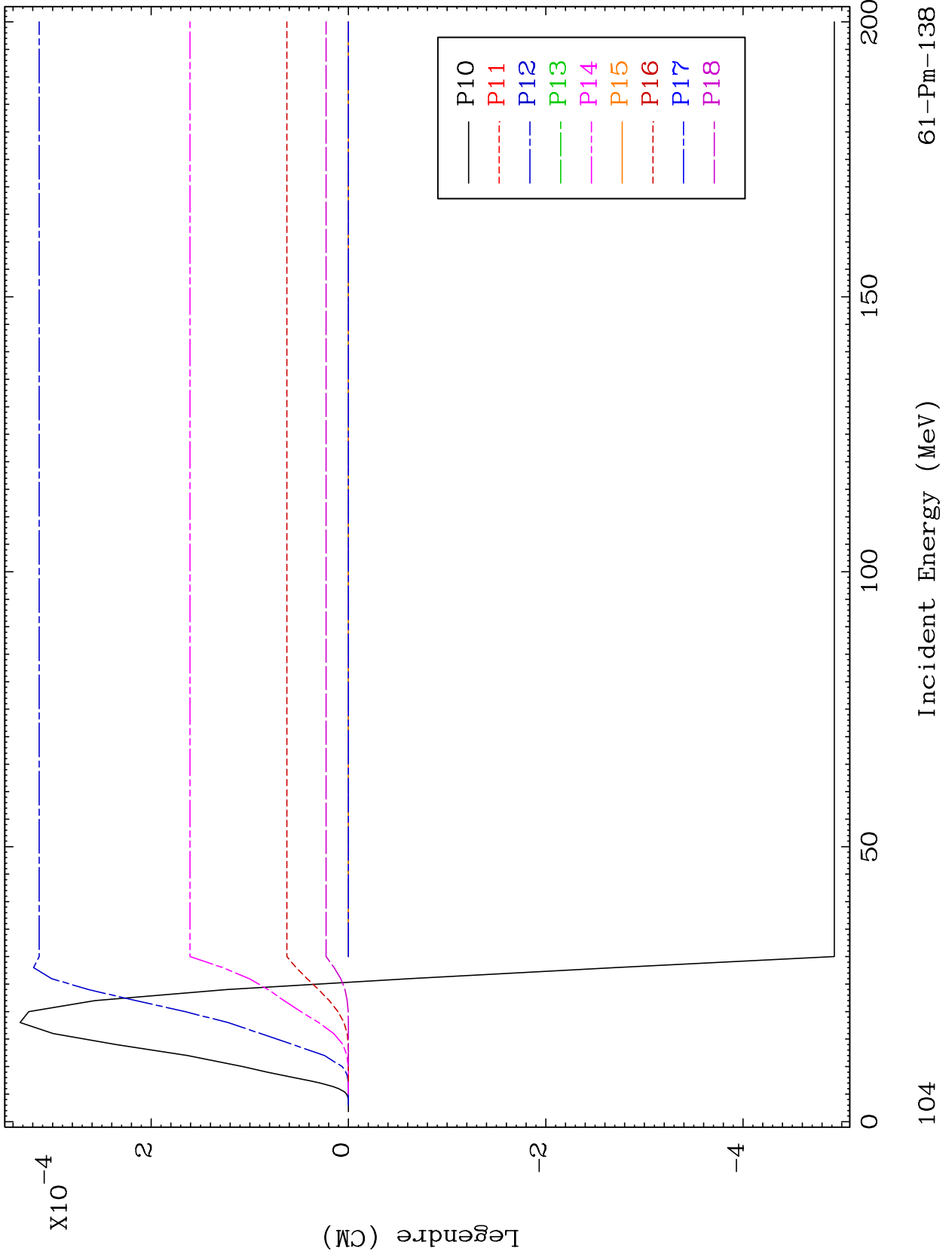
61-Pm-138

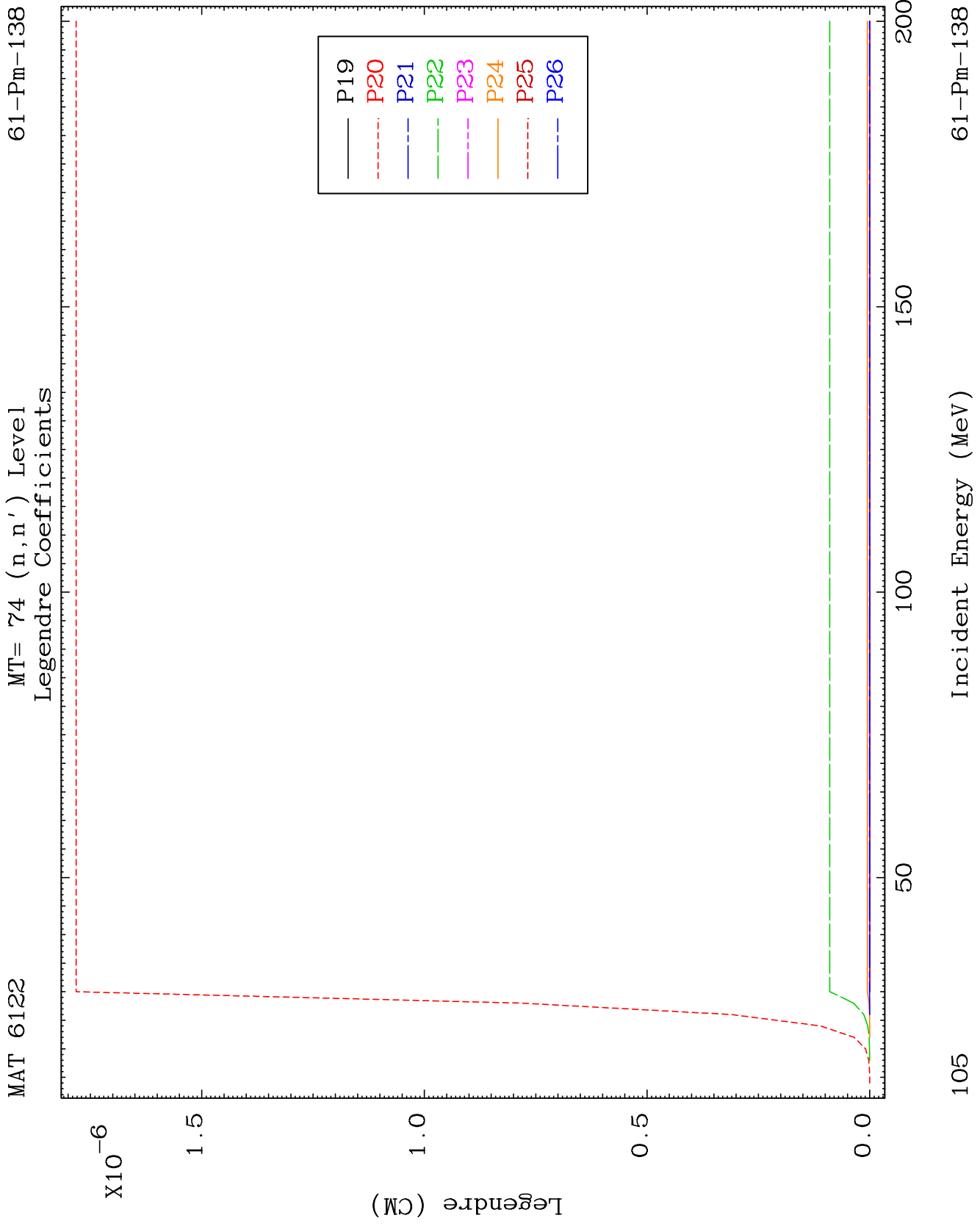
61-Pm-138

MAT 61222

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

61-Pm-138



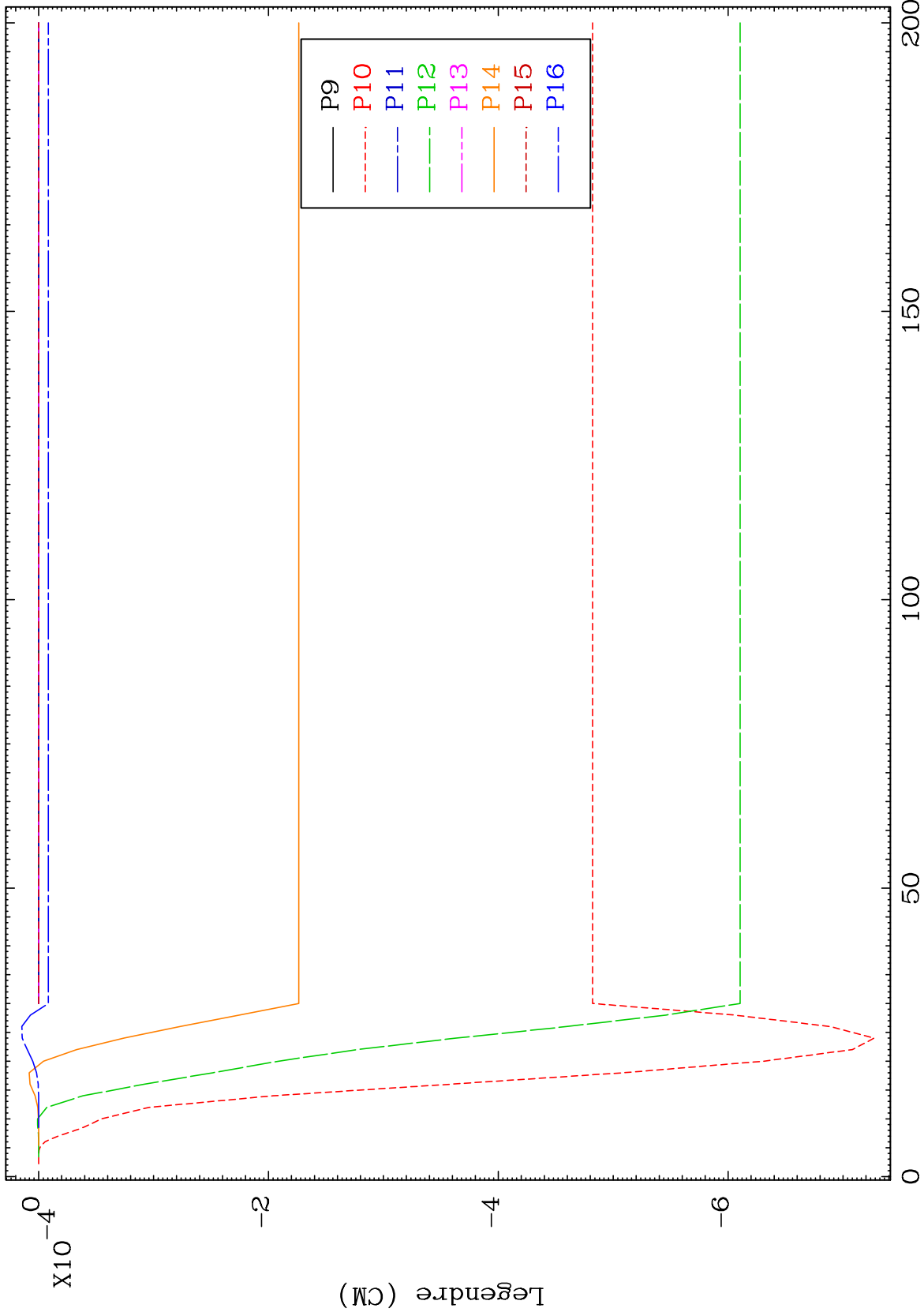


MAT 61222

MT= 75 (n,n') Level

61-Pm-138

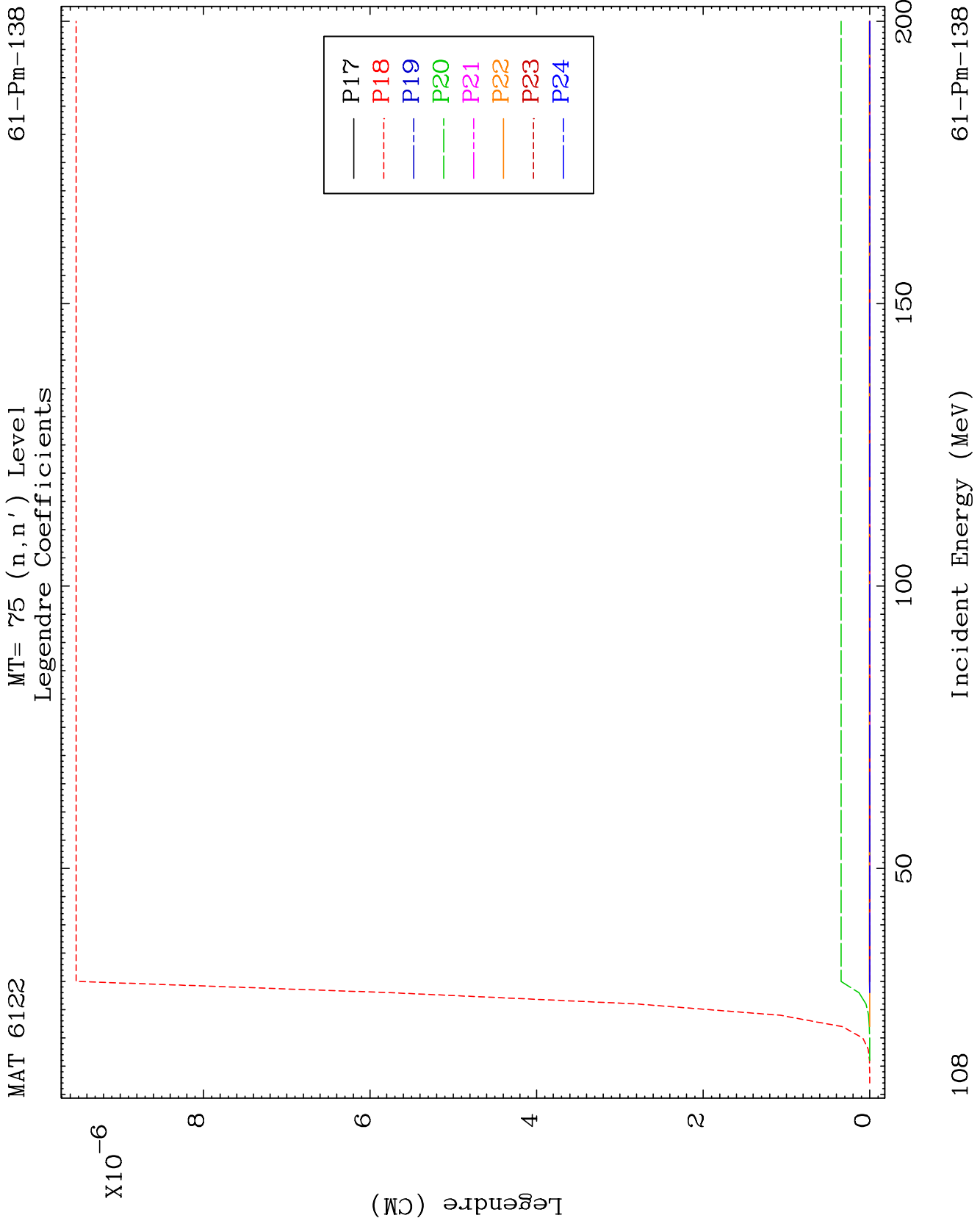
Legendre Coefficients



107

Incident Energy (MeV)

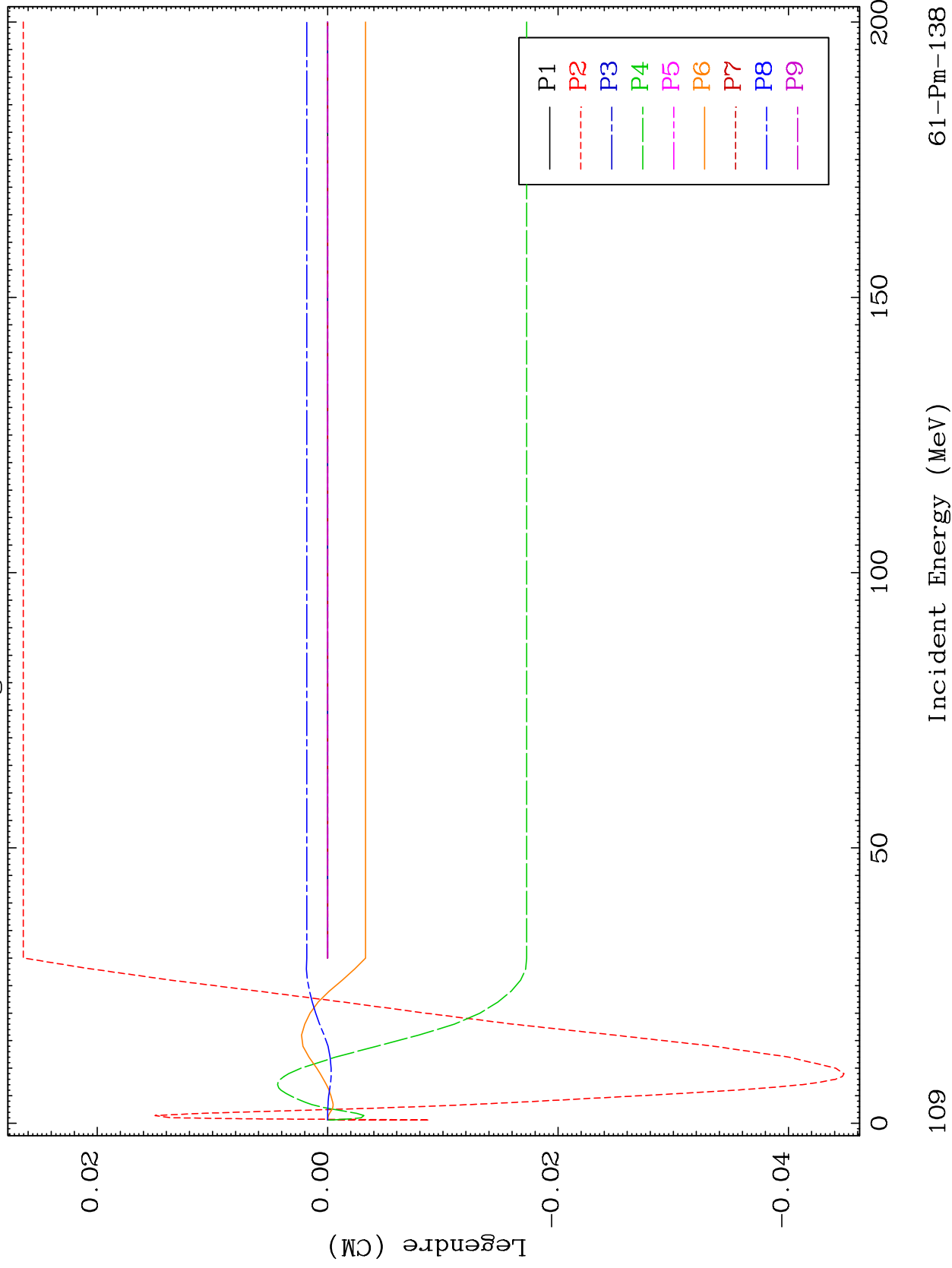
61-Pm-138



MAT 61222

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

61-Pm-138



61-Pm-138

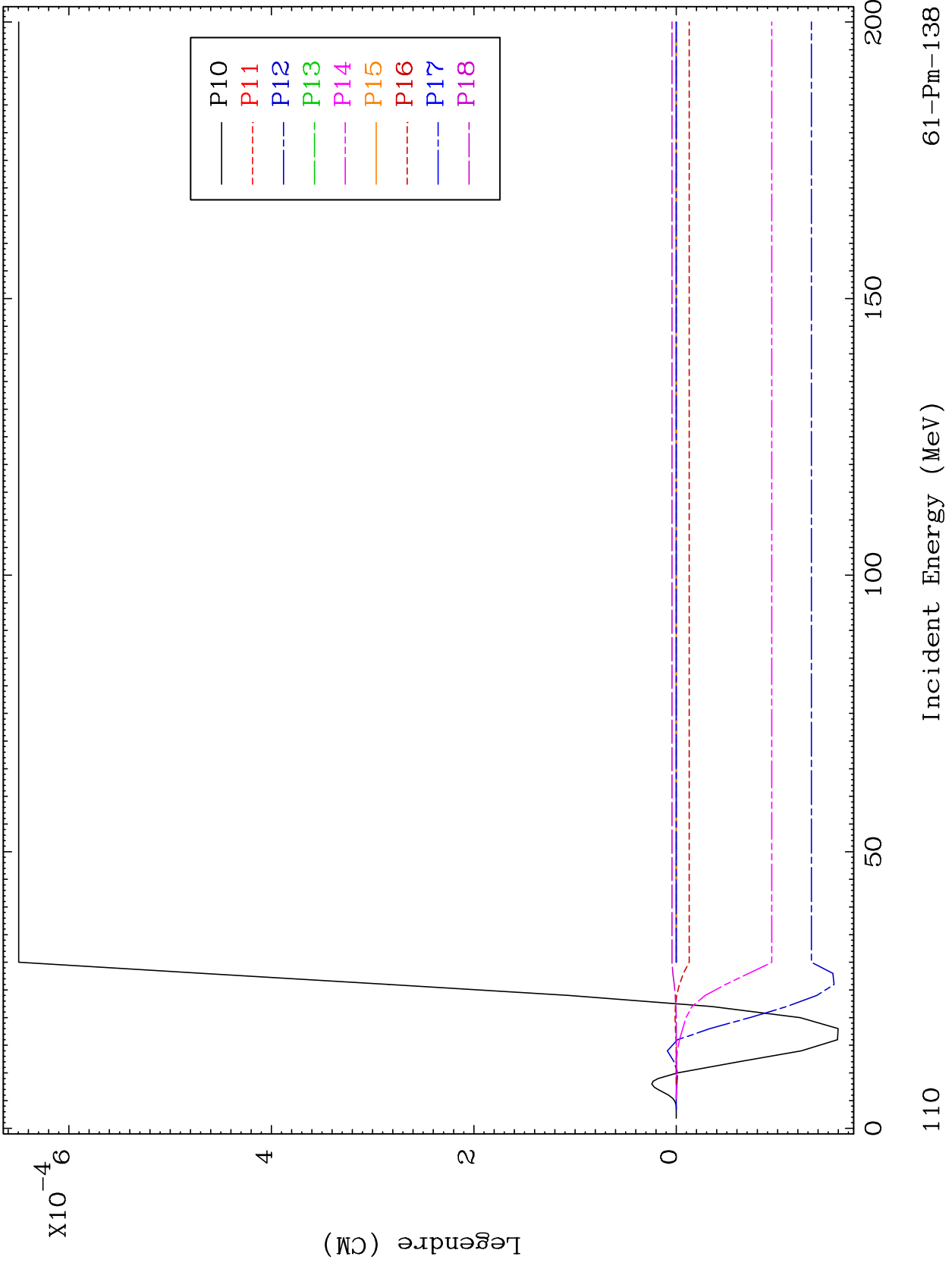
Incident Energy (MeV)

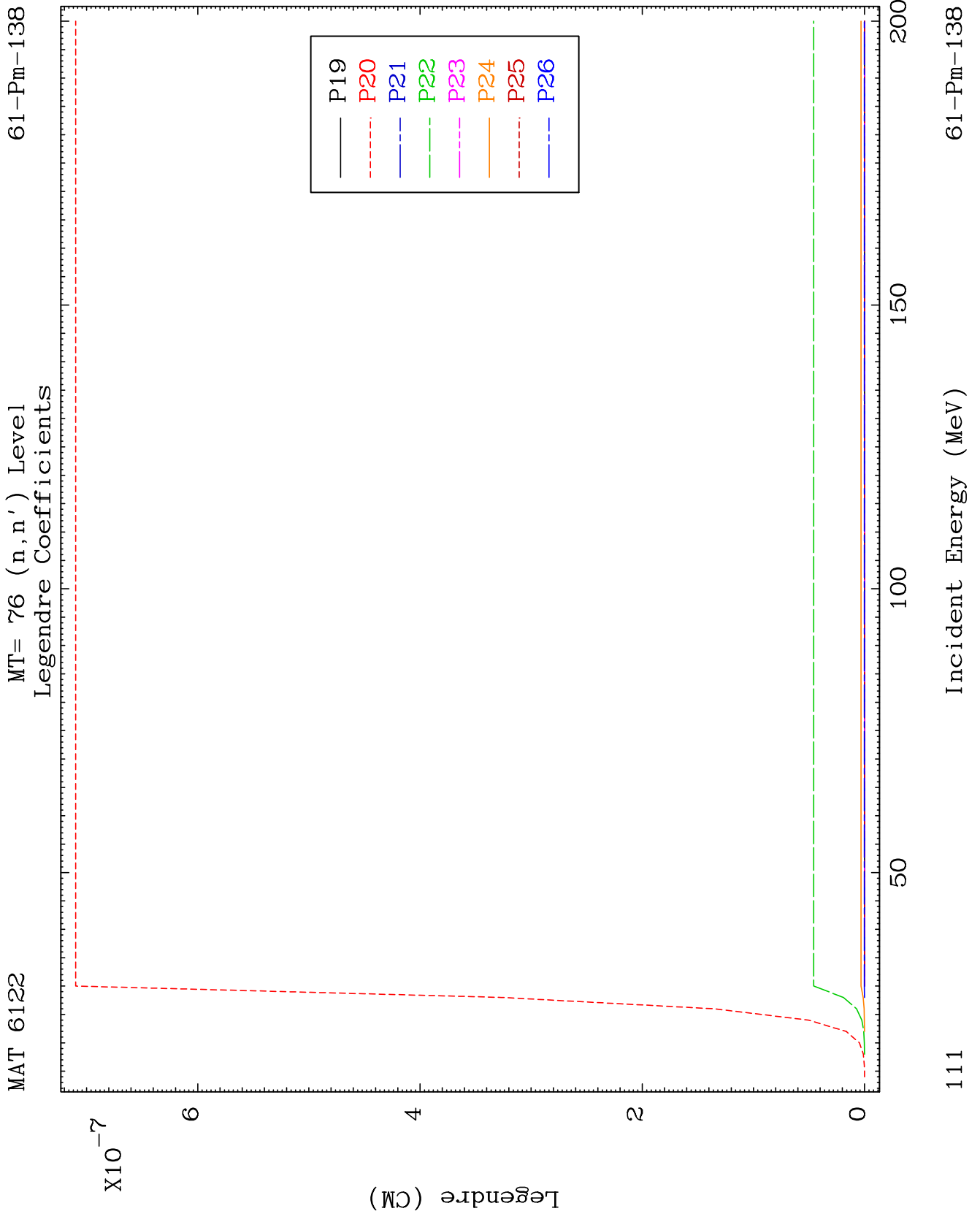
109

MAT 6122

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

61-Pm-138

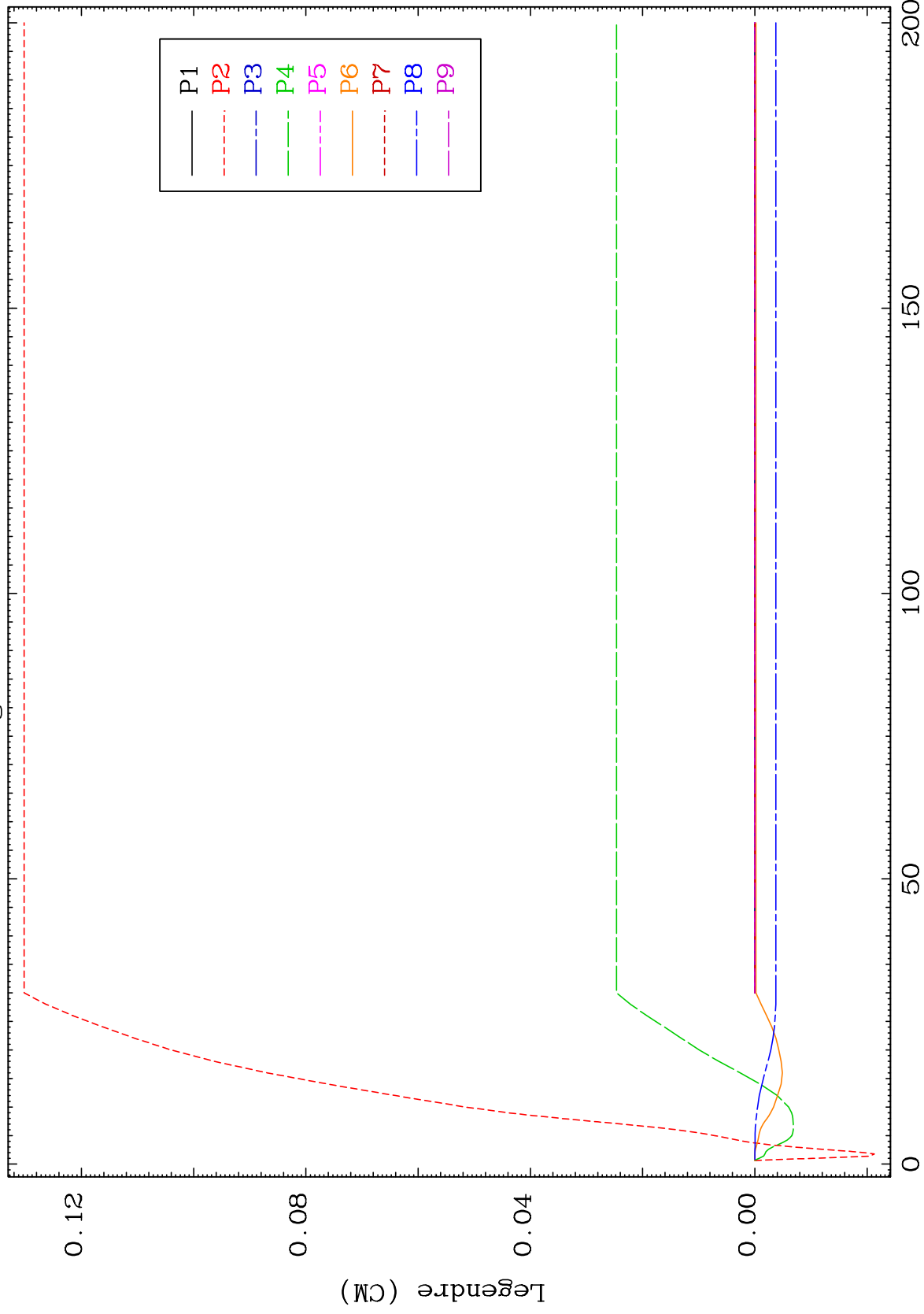




MAT 6122

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

61-Pm-138



61-Pm-138

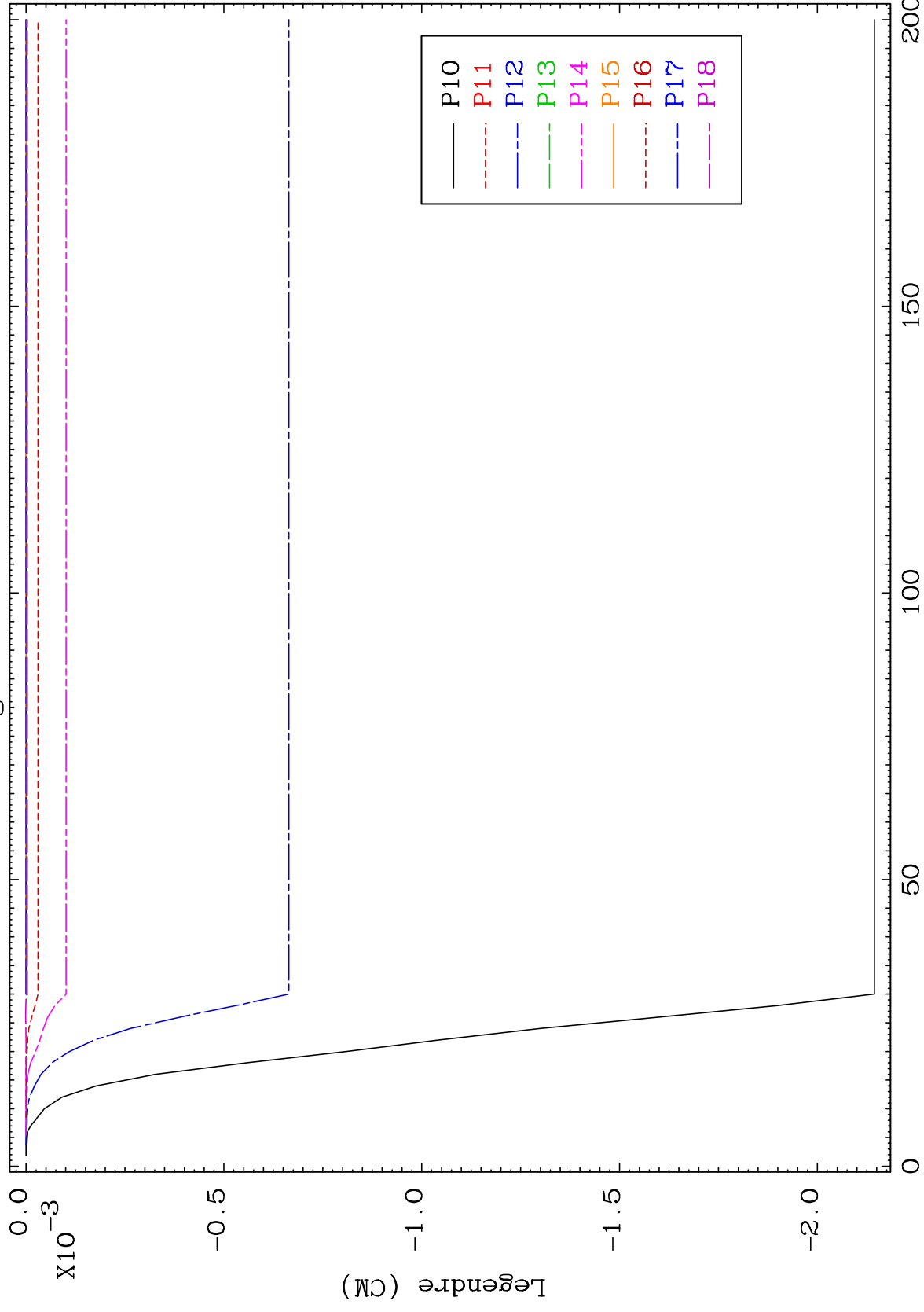
Incident Energy (MeV)

112

MAT 6122

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

61-Pm-138



113

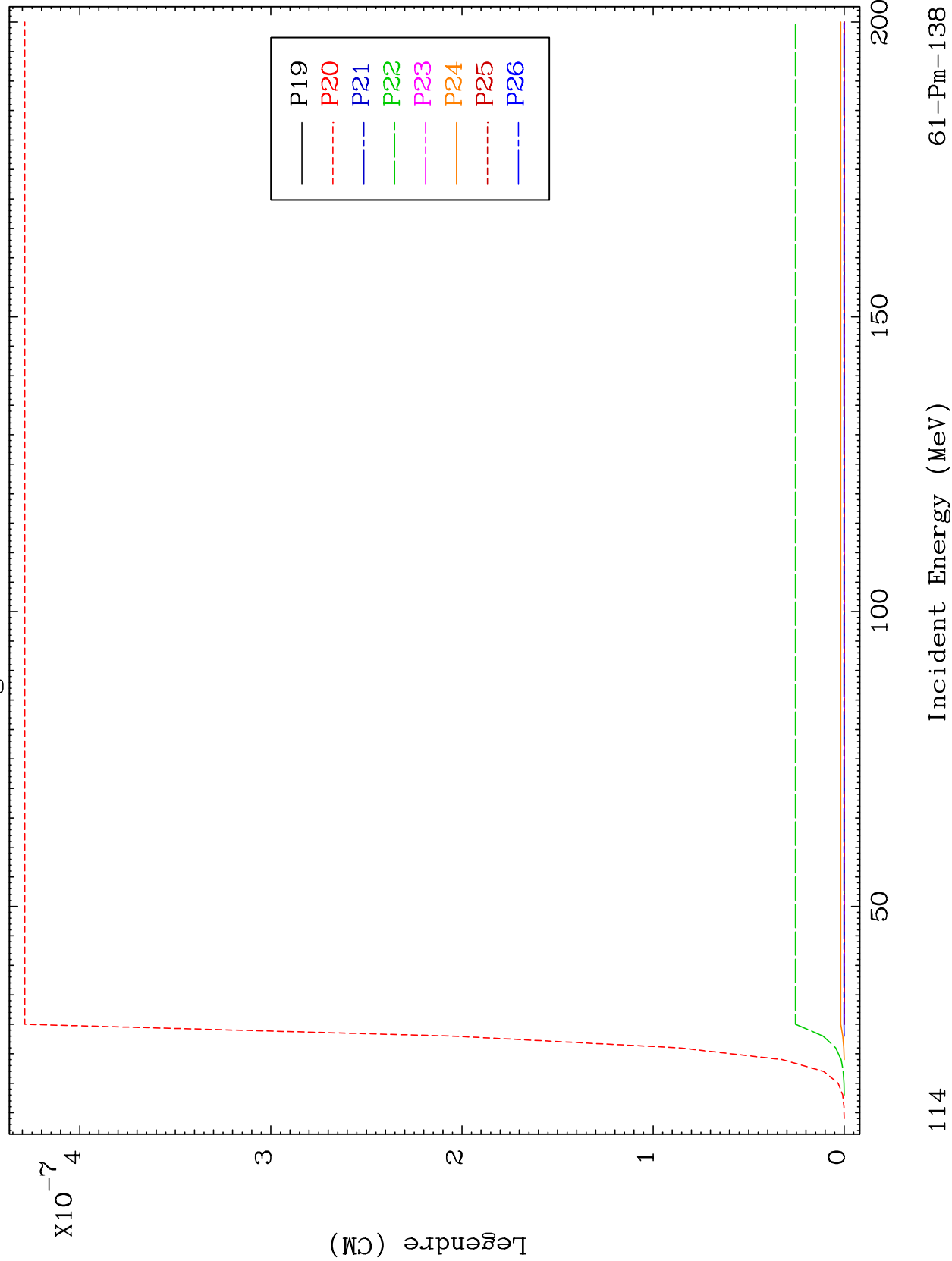
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



114

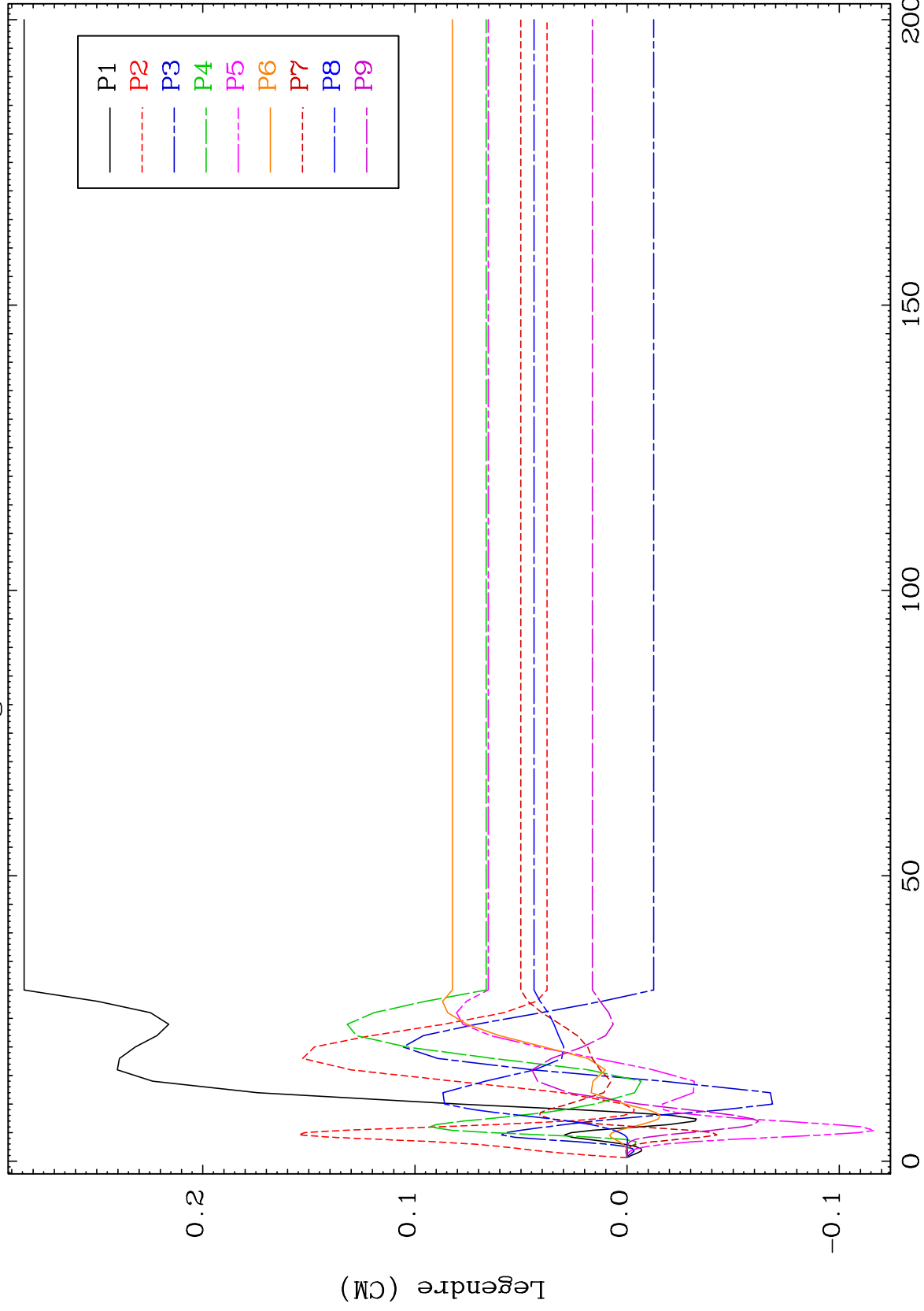
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



61-Pm-138

Incident Energy (MeV)

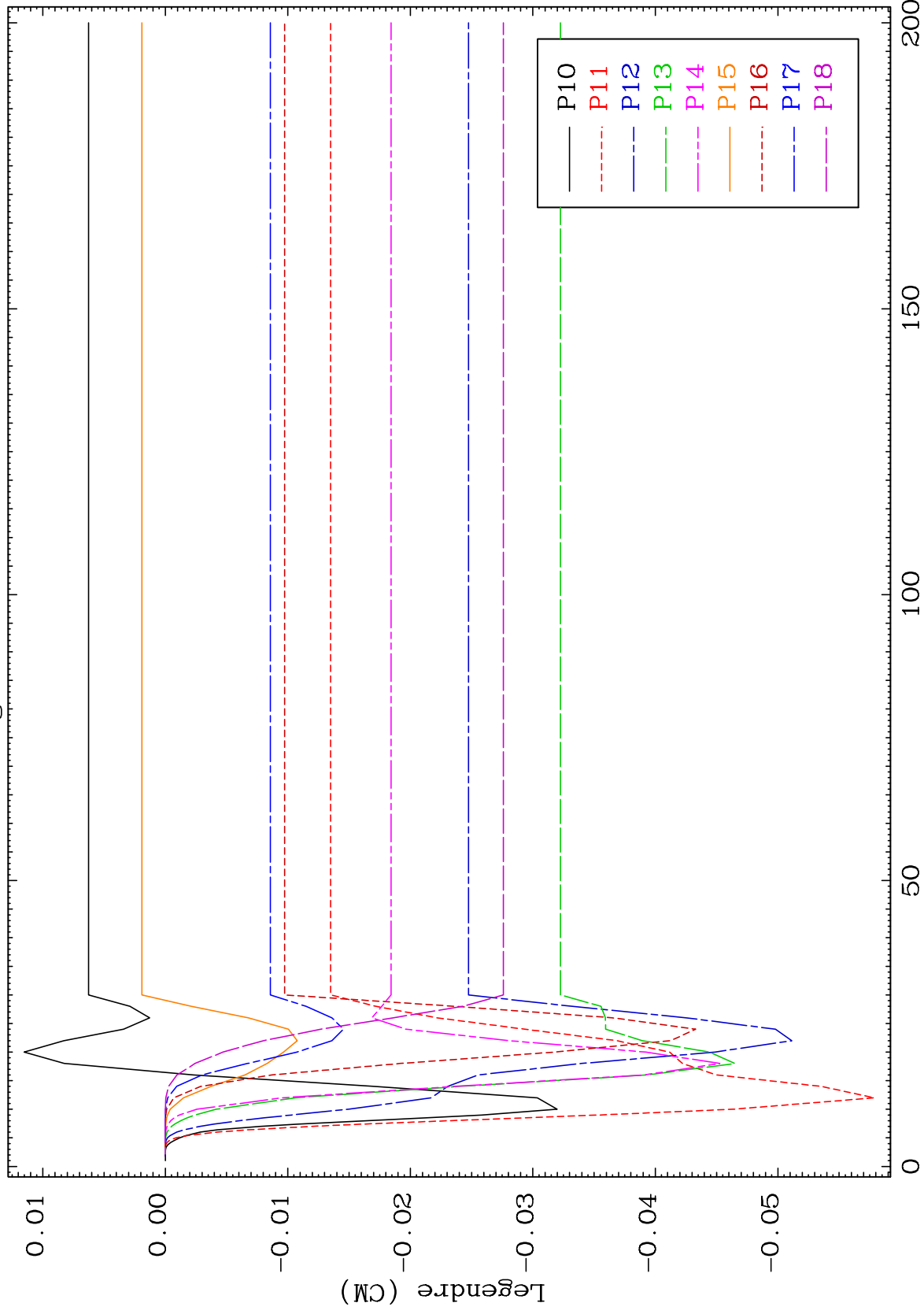
115

MAT 61222

MT= 78 (n,n') Level

61-Pm-138

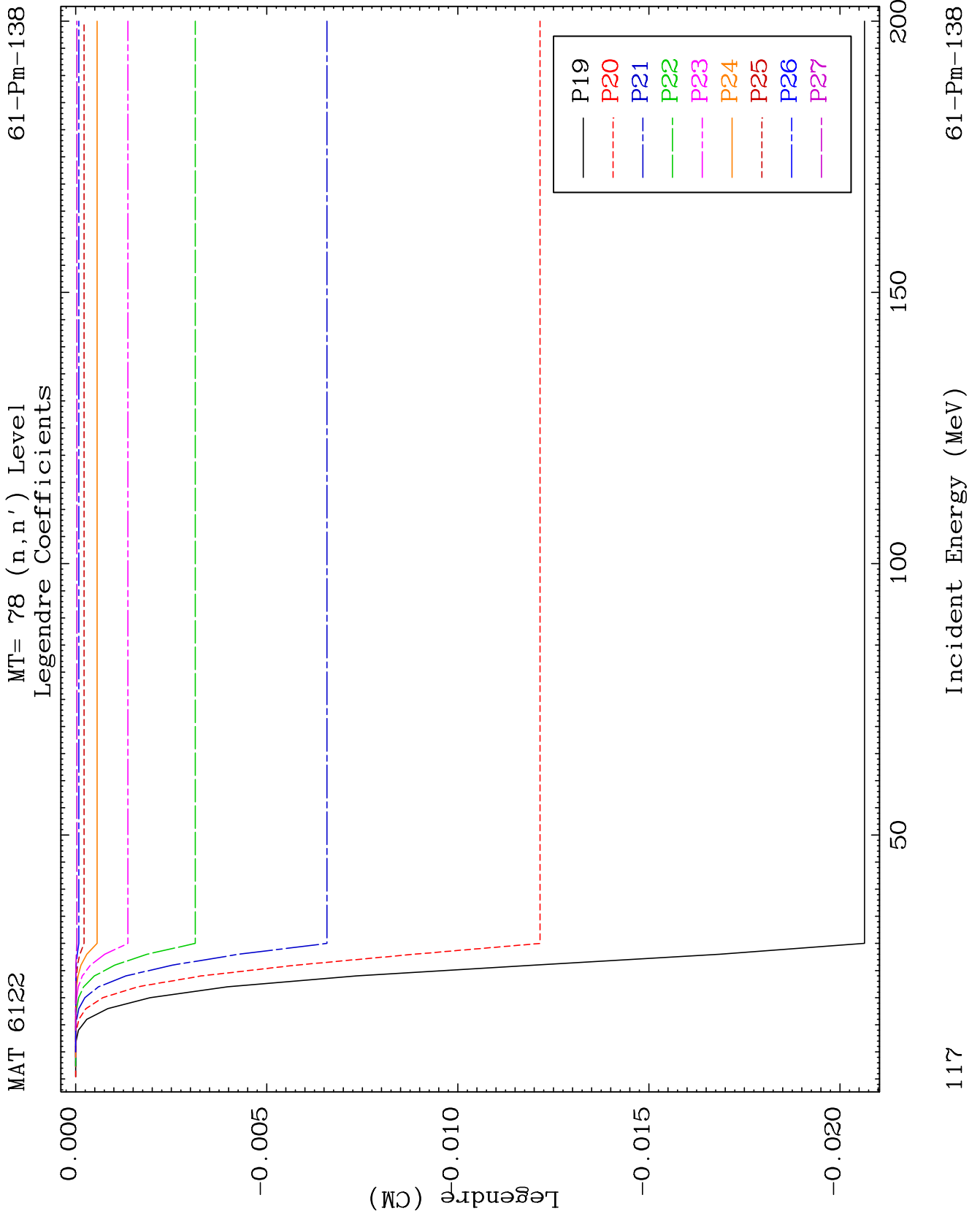
Legendre Coefficients



116

Incident Energy (MeV)

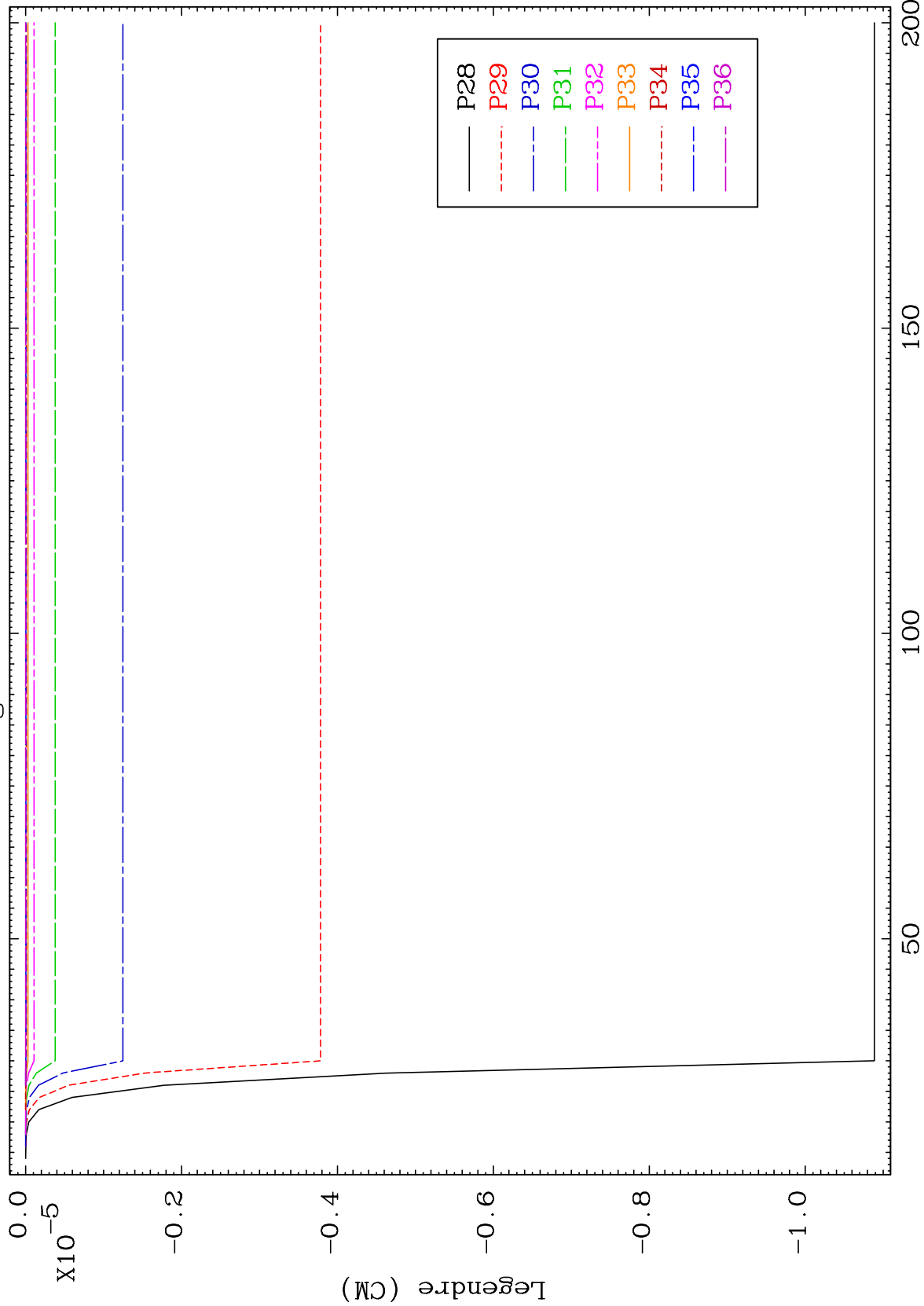
61-Pm-138



MAT 6122

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

61-Pm-138



61-Pm-138

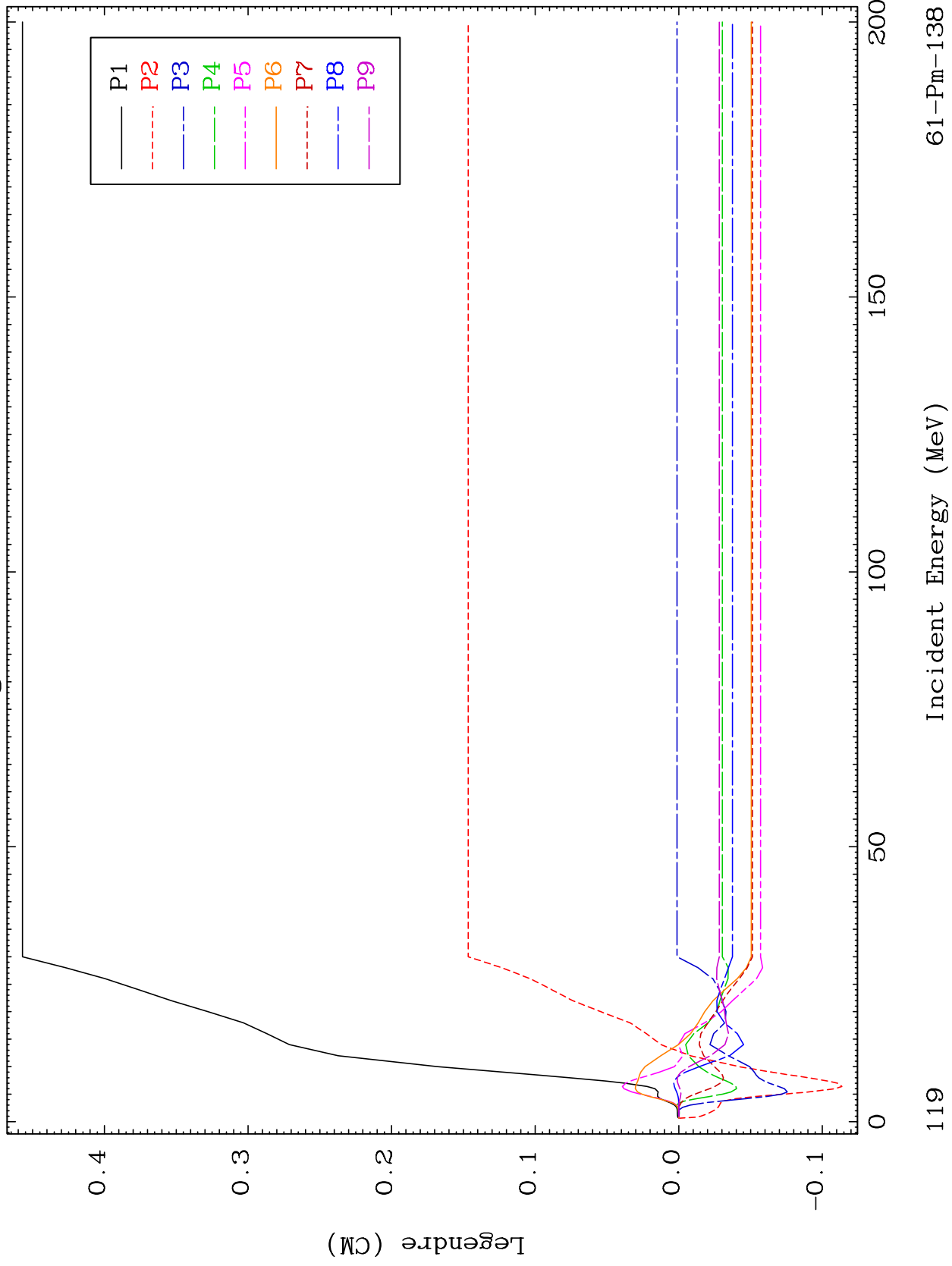
Incident Energy (MeV)

118

MAT 6122

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

61-Pm-138



61-Pm-138

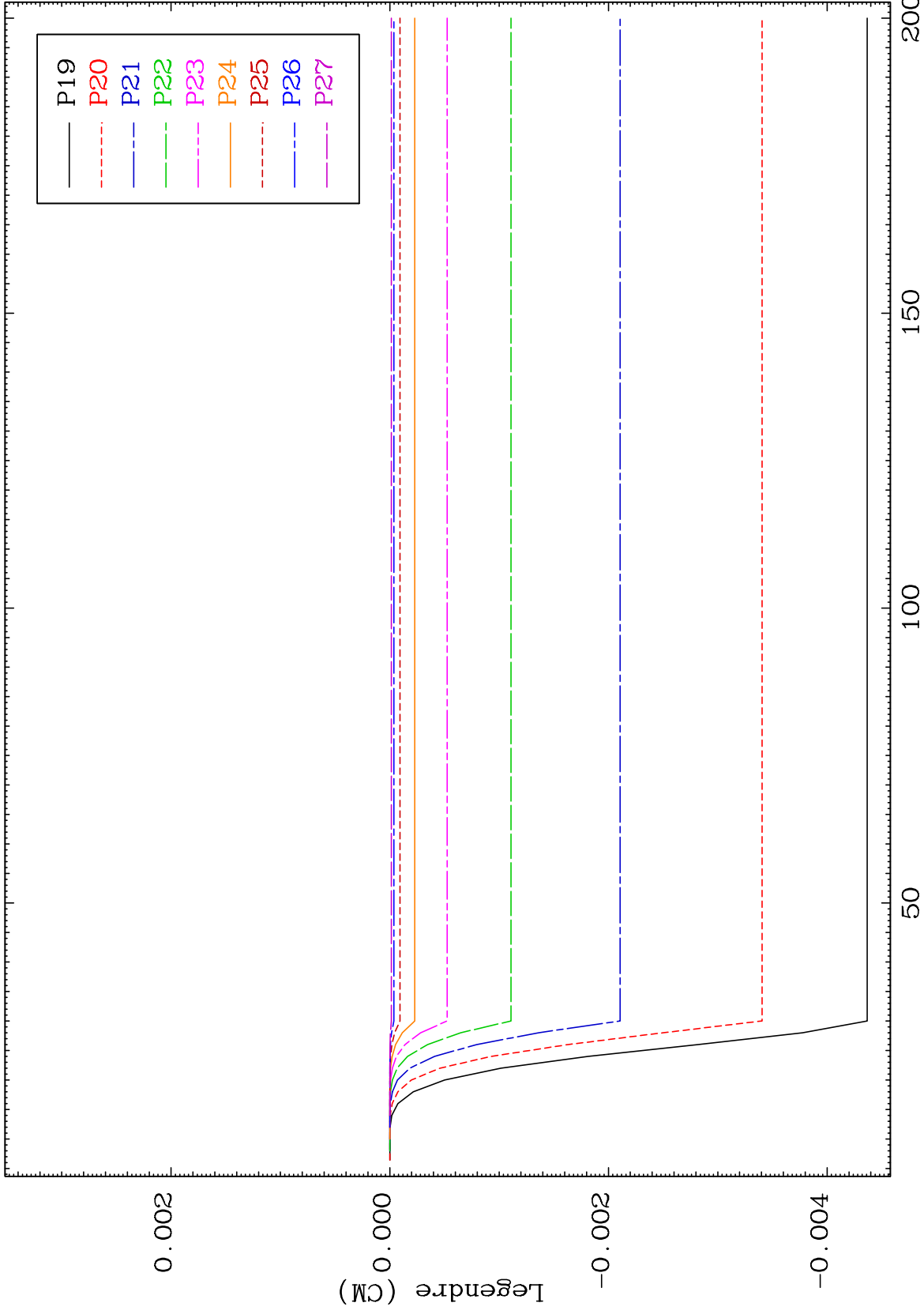
Incident Energy (MeV)

119

MAT 6122

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

61-Pm-138



121

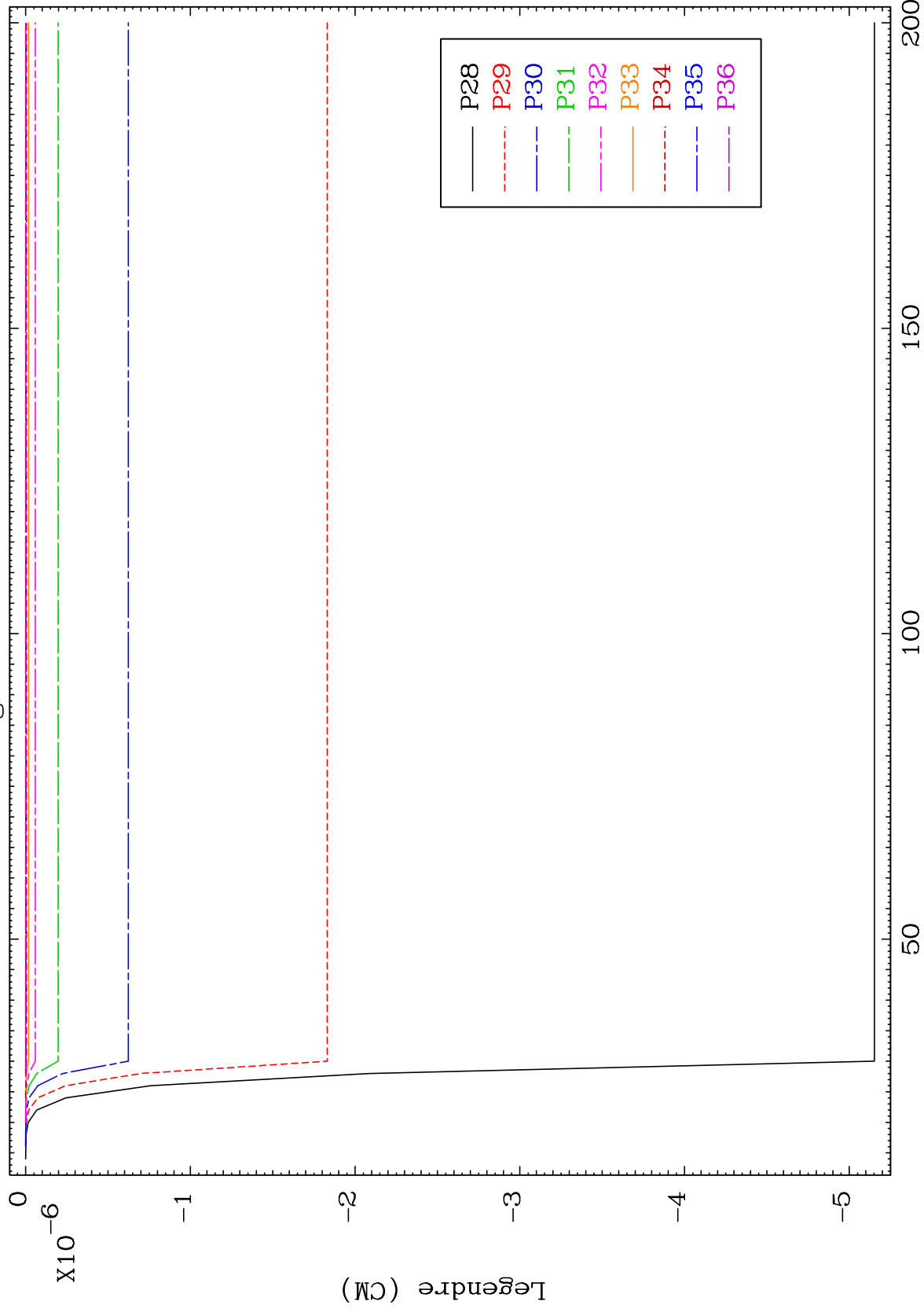
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



122

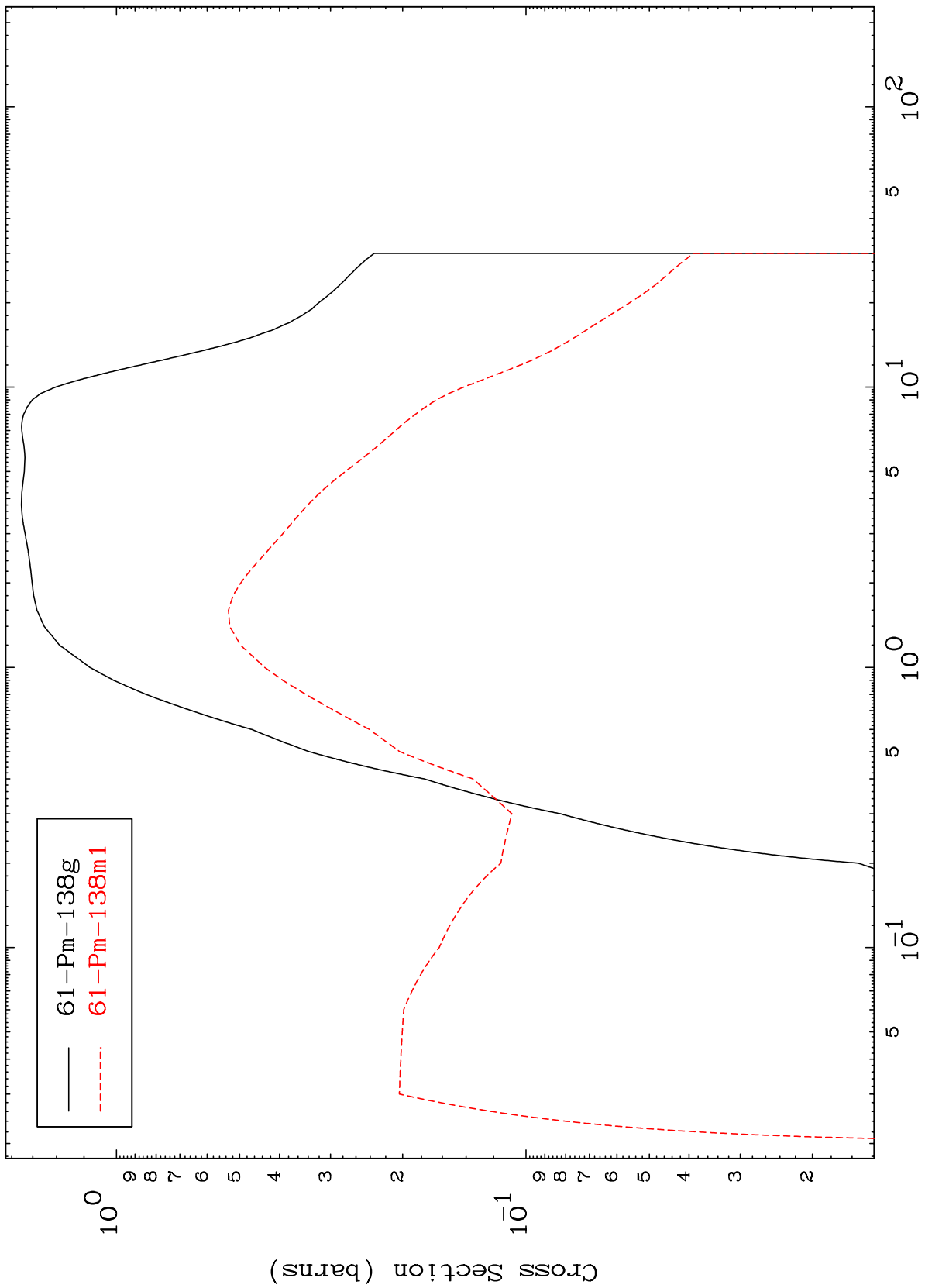
Incident Energy (MeV)

61-Pm-138

MAT 6122

61-Pm-138

Radionuclide Production Cross Section



61-Pm-138g
61-Pm-138m1

61-Pm-138

Incident Energy (MeV)

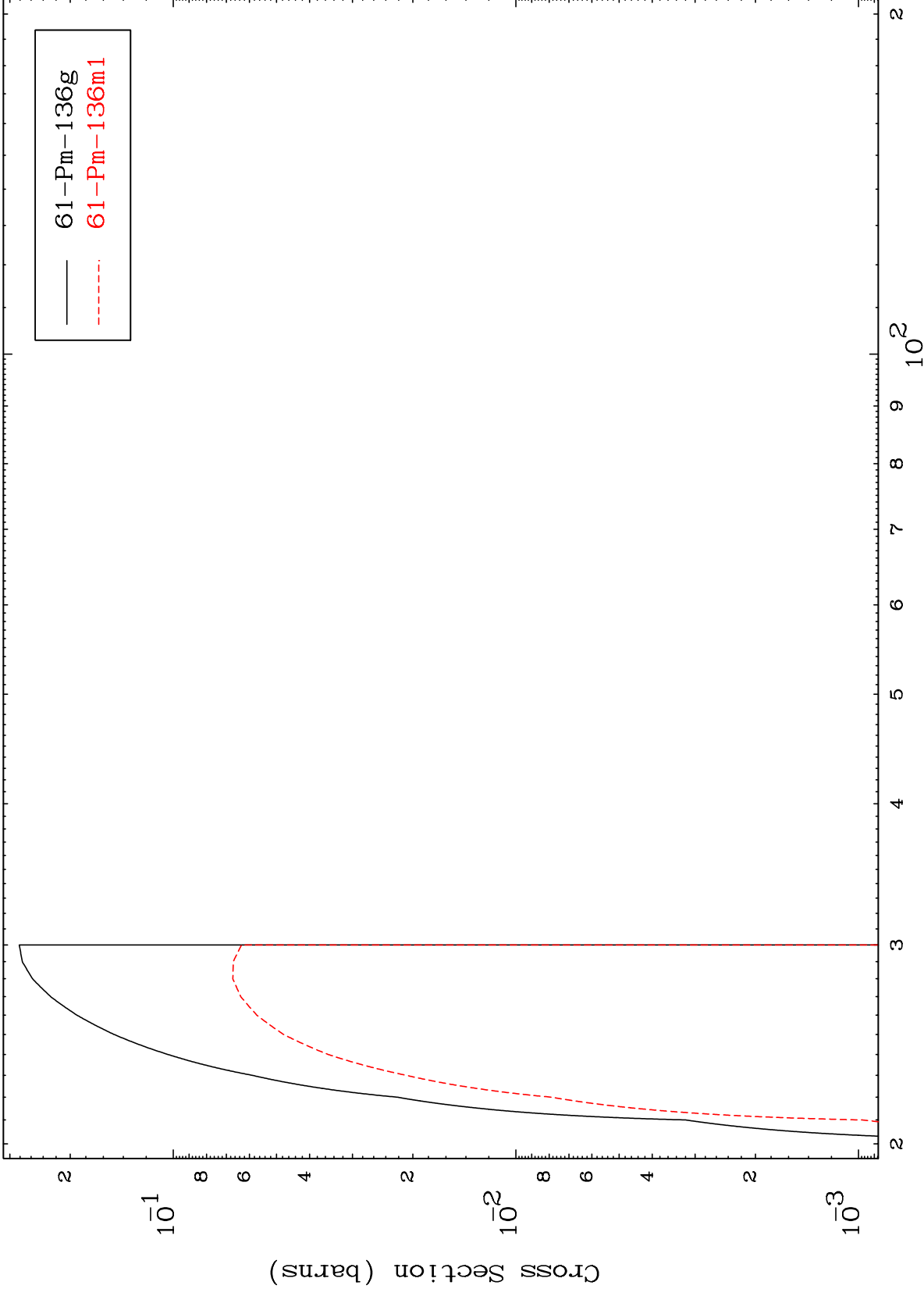
123

MAT 6122

(n,3n)

61-Pm-138

Radionuclide Production Cross Section



124

Incident Energy (MeV)

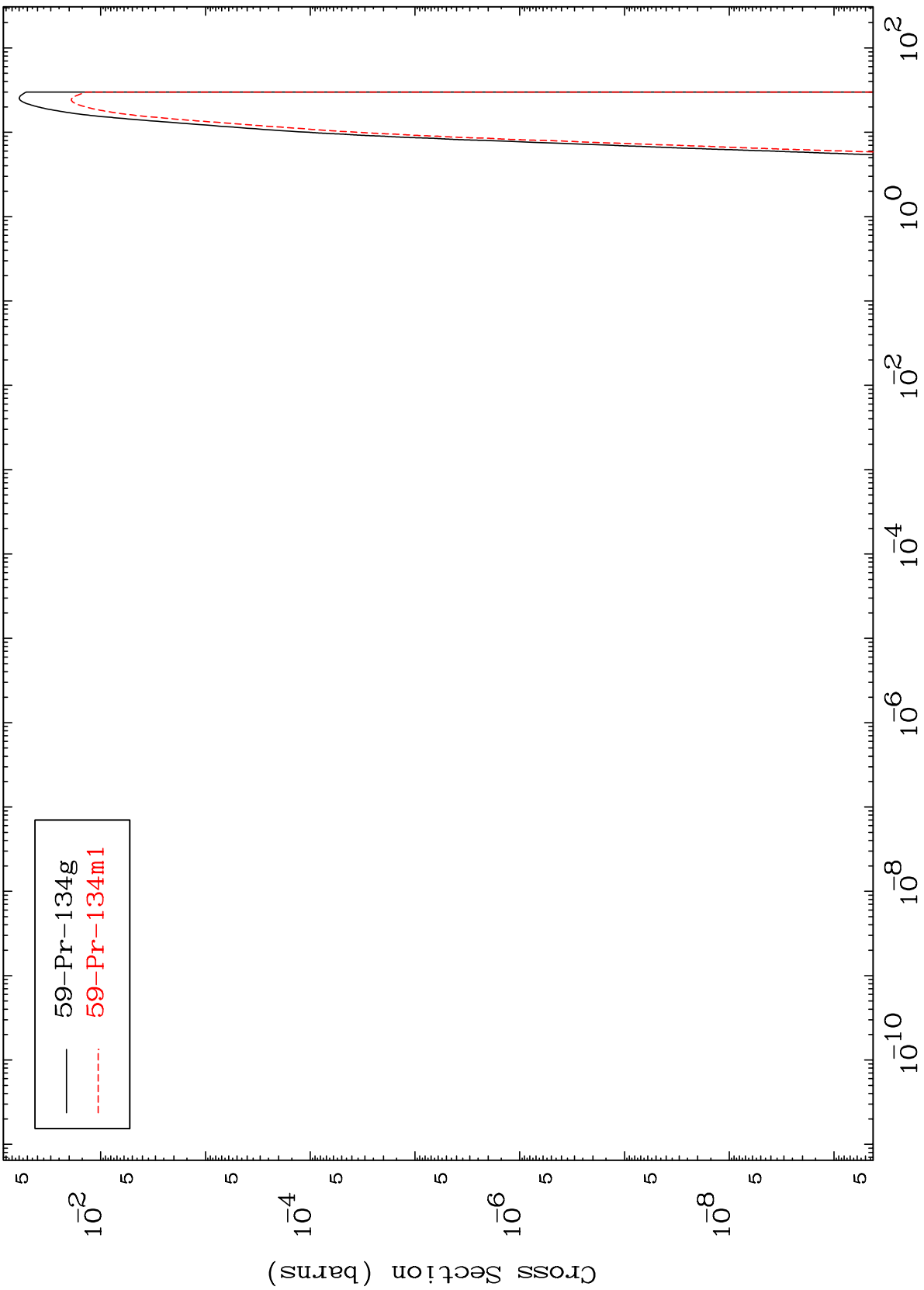
61-Pm-138

MAT 6122

(n, n') α

61-Pm-138

Radionuclide Production Cross Section



125

Incident Energy (MeV)

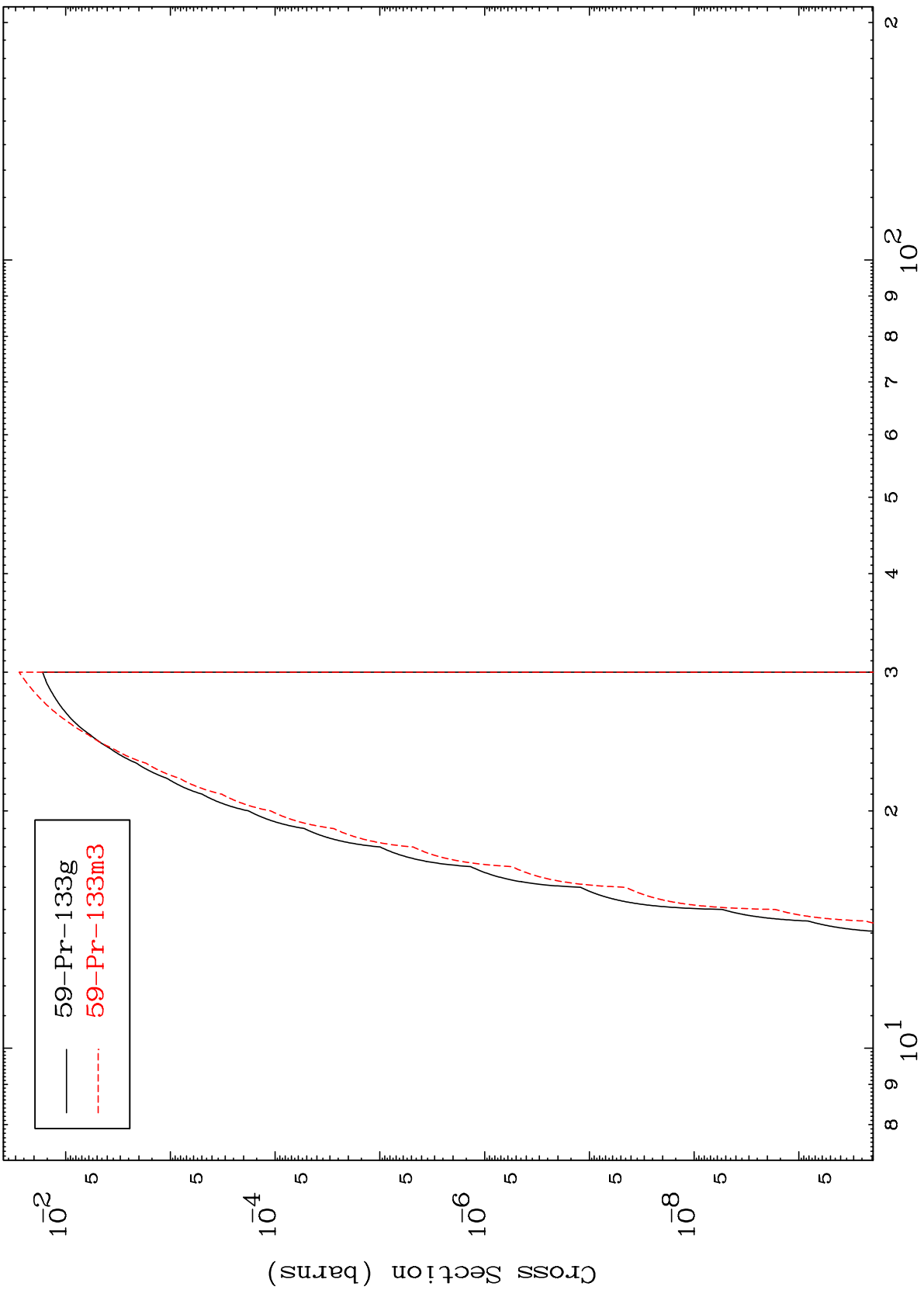
61-Pm-138

MAT 6122

(n,2n) α

61-Pm-138

Radionuclide Production Cross Section



— 59-Pr-133g
- - - 59-Pr-133m3

126

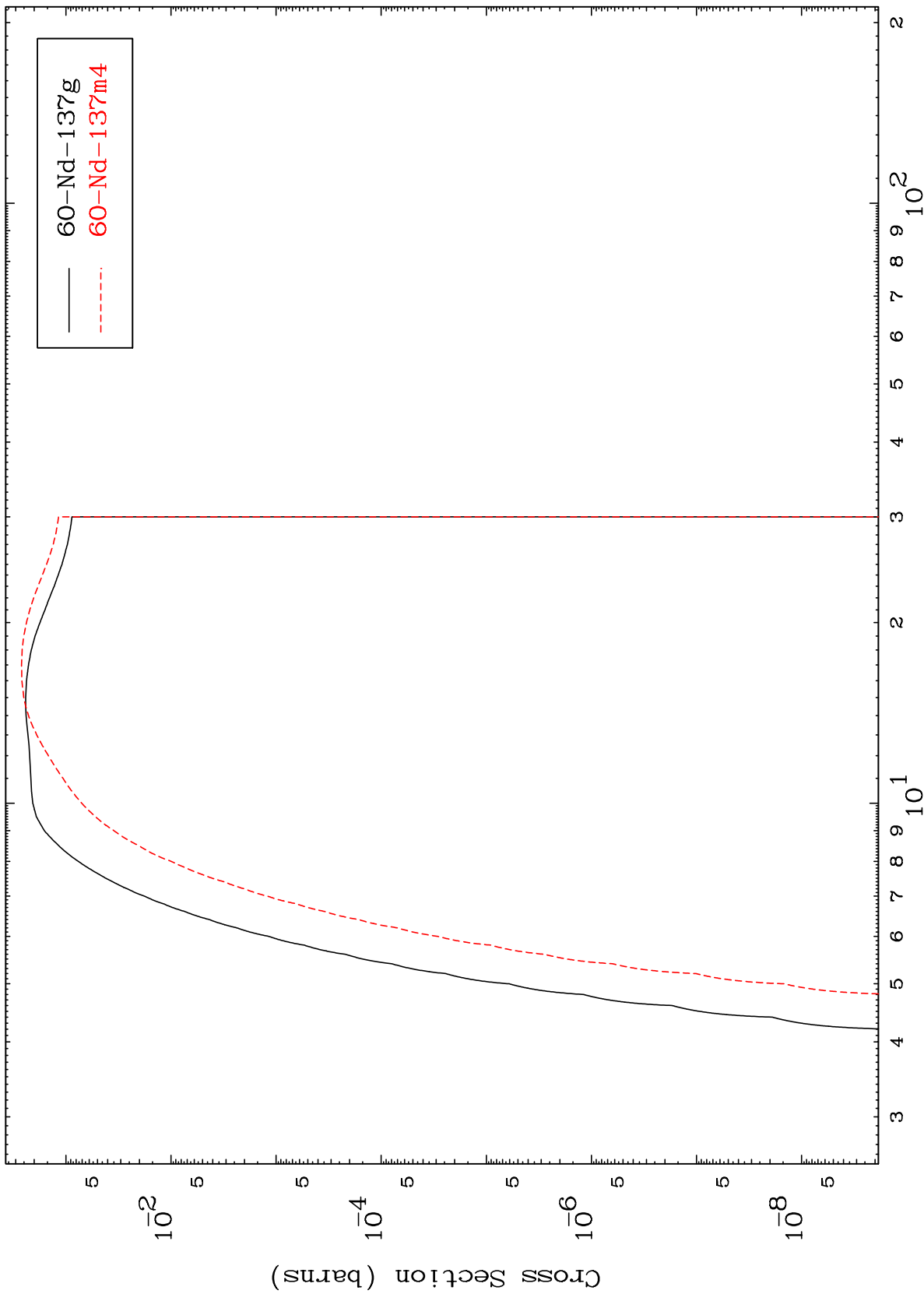
Incident Energy (MeV)

61-Pm-138

MAT 6122

61-Pm-138

(n, n') p
Radionuclide Production Cross Section

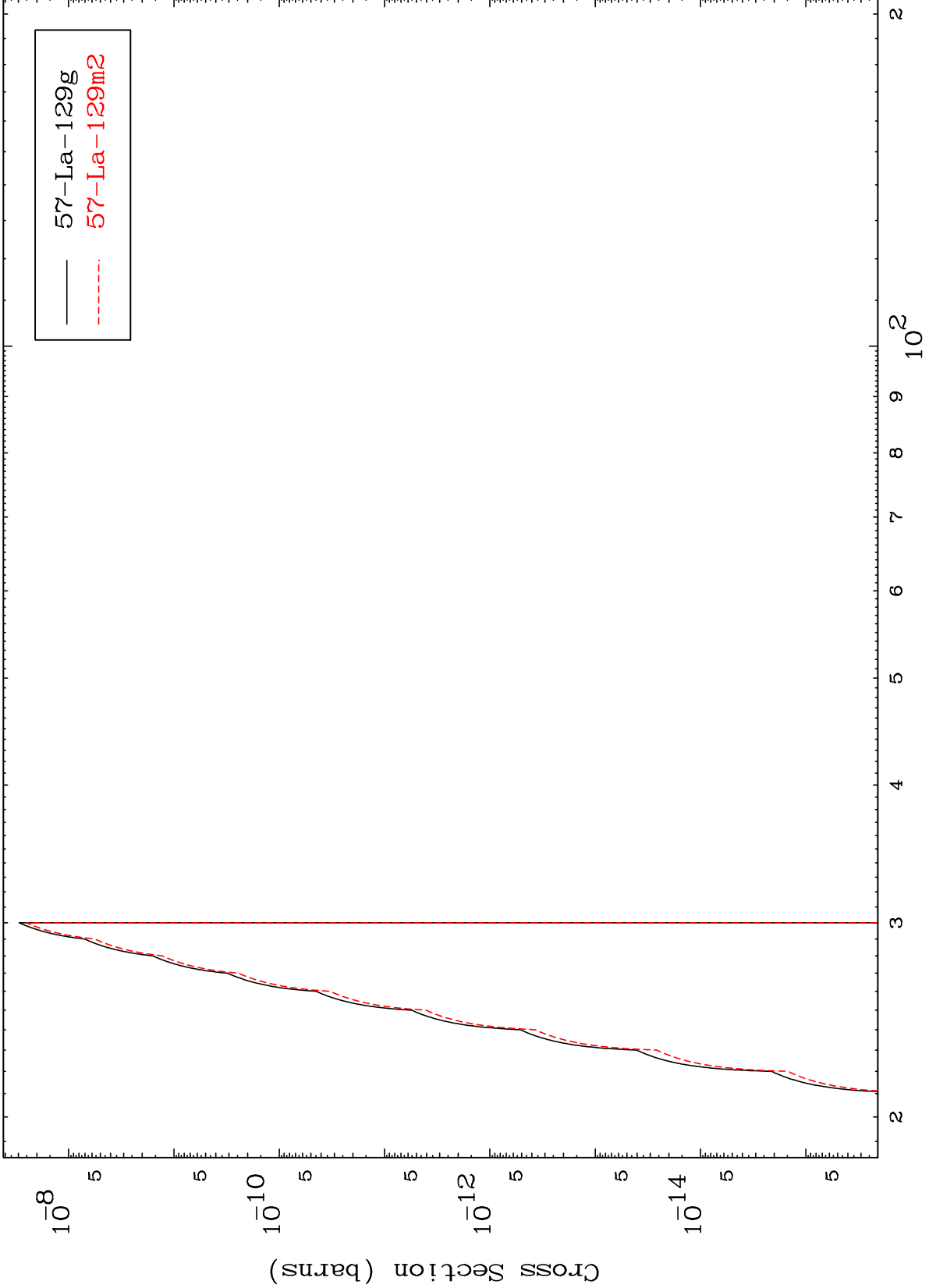


127

Incident Energy (MeV)

61-Pm-138

Radionuclide Production Cross Section

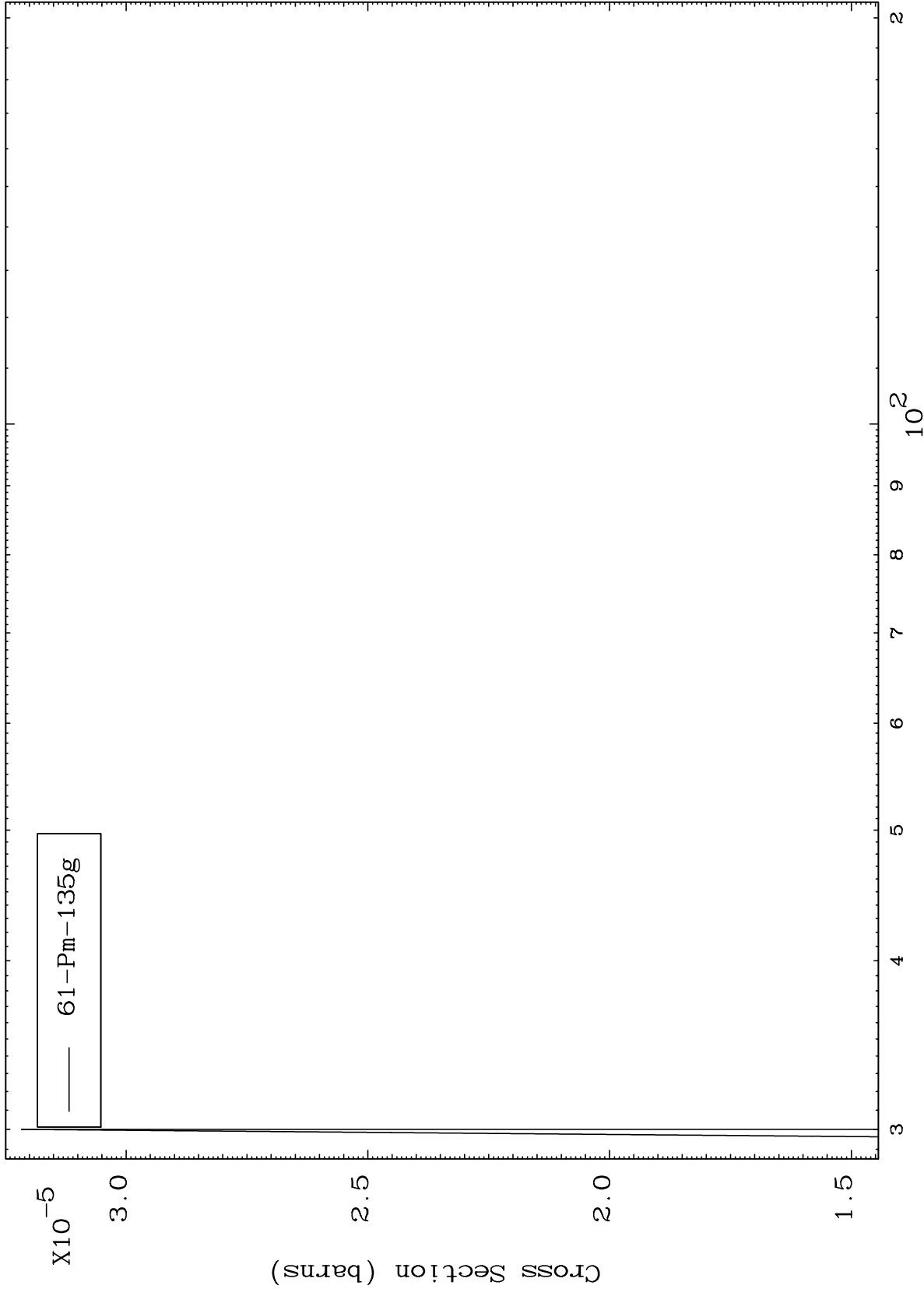


MAT 6122

(n,4n)

61-Pm-138

Radionuclide Production Cross Section



129

Incident Energy (MeV)

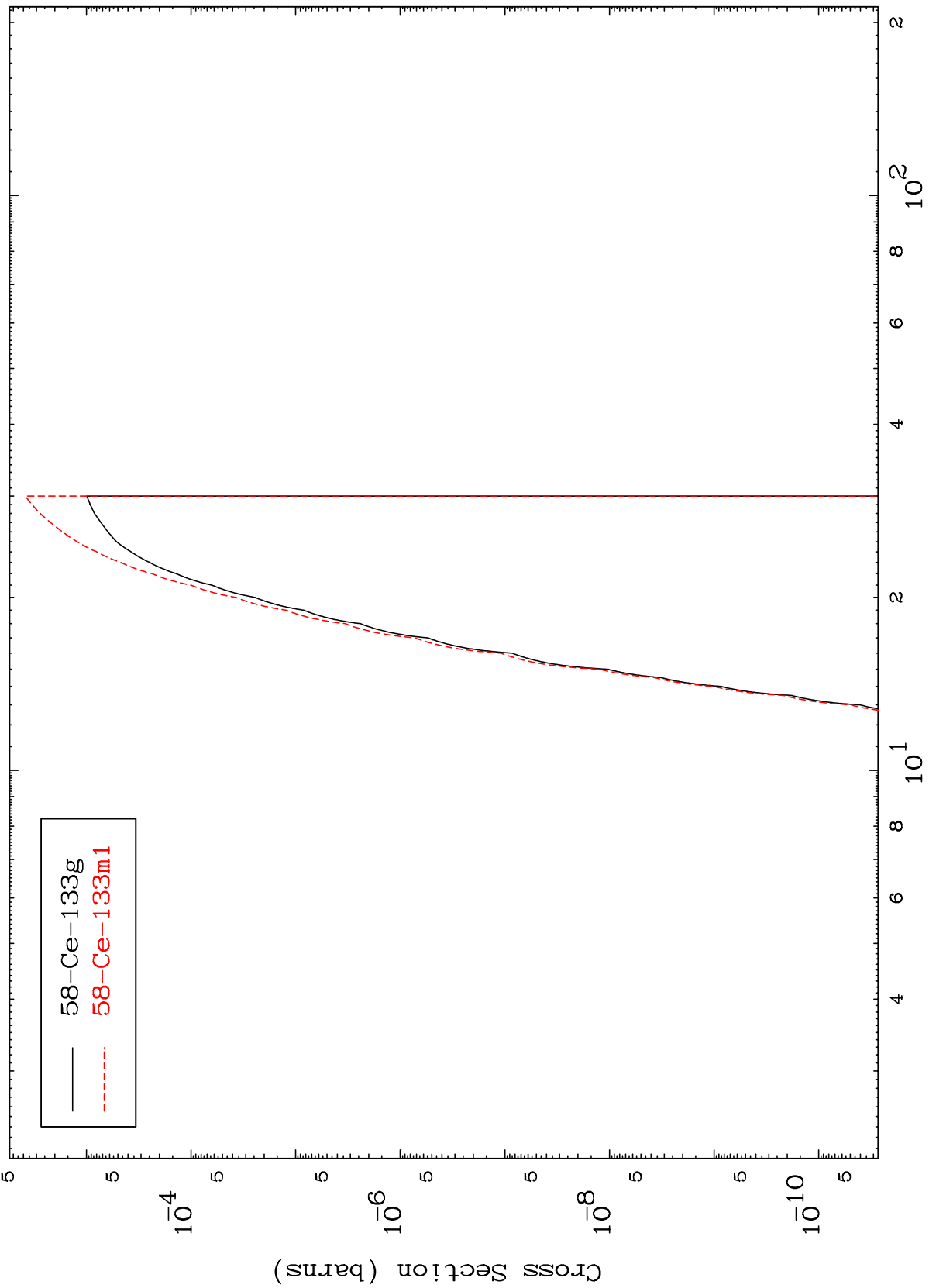
61-Pm-138

MAT 6122

(n,n') p α

61-Pm-138

Radionuclide Production Cross Section



58-Ce-133g
58-Ce-133m1

130

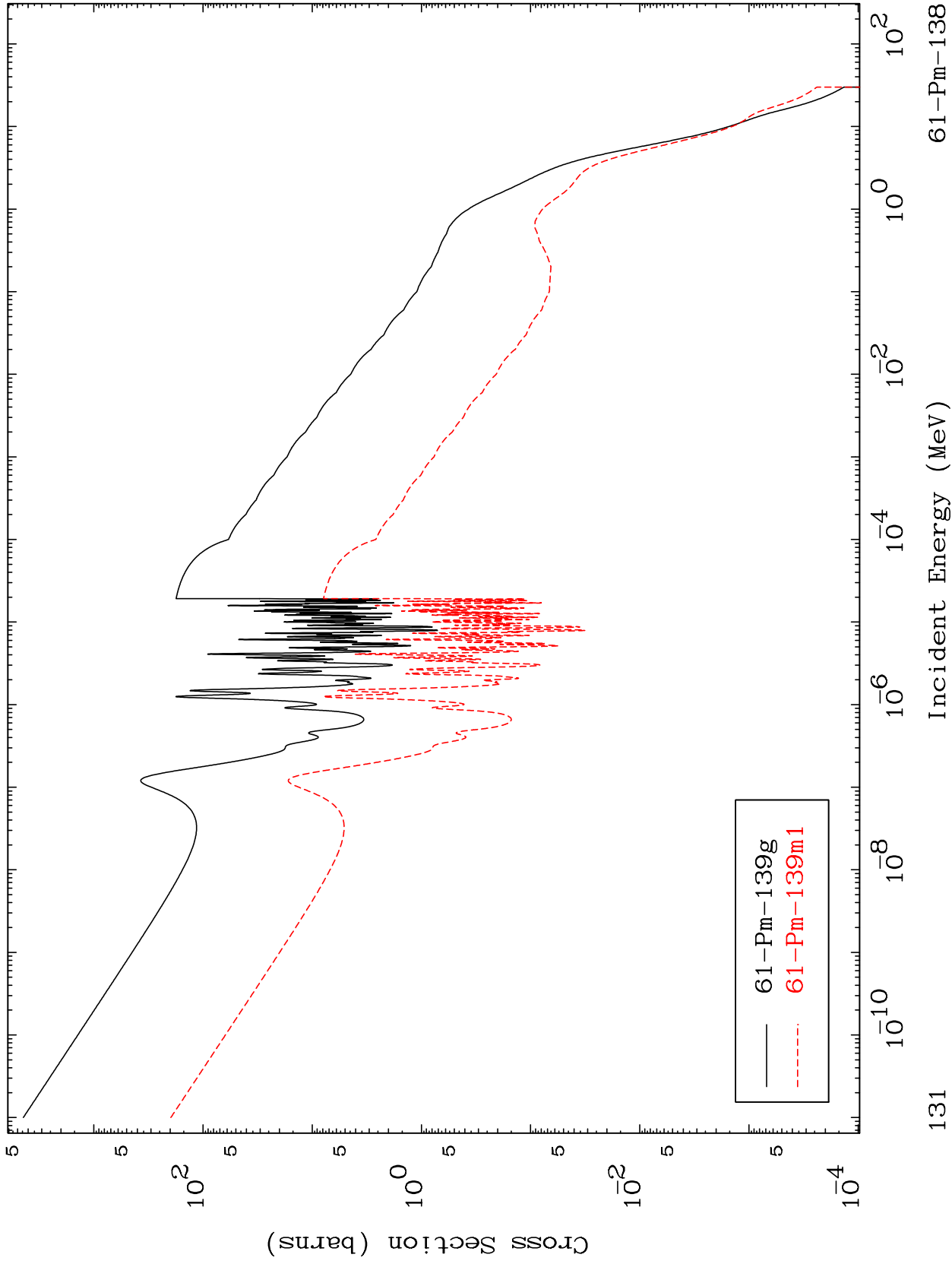
Incident Energy (MeV)

61-Pm-138

MAT 6122

61-Pm-138

Radionuclide Production Cross Section
(n, γ)



131

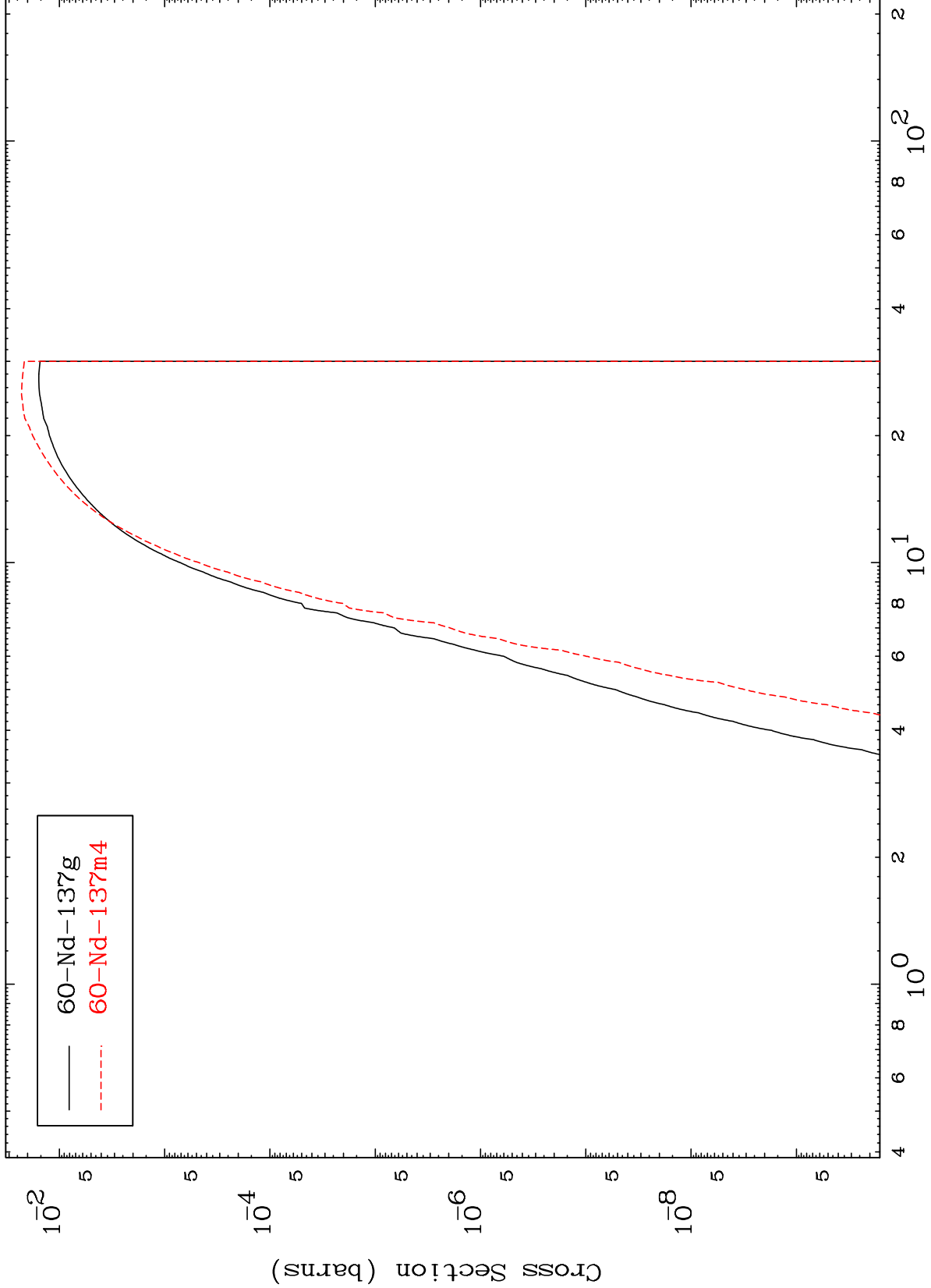
61-Pm-138

MAT 6122

(n,d)

61-Pm-138

Radionuclide Production Cross Section



60-Nd-137g
60-Nd-137m4

132

Incident Energy (MeV)

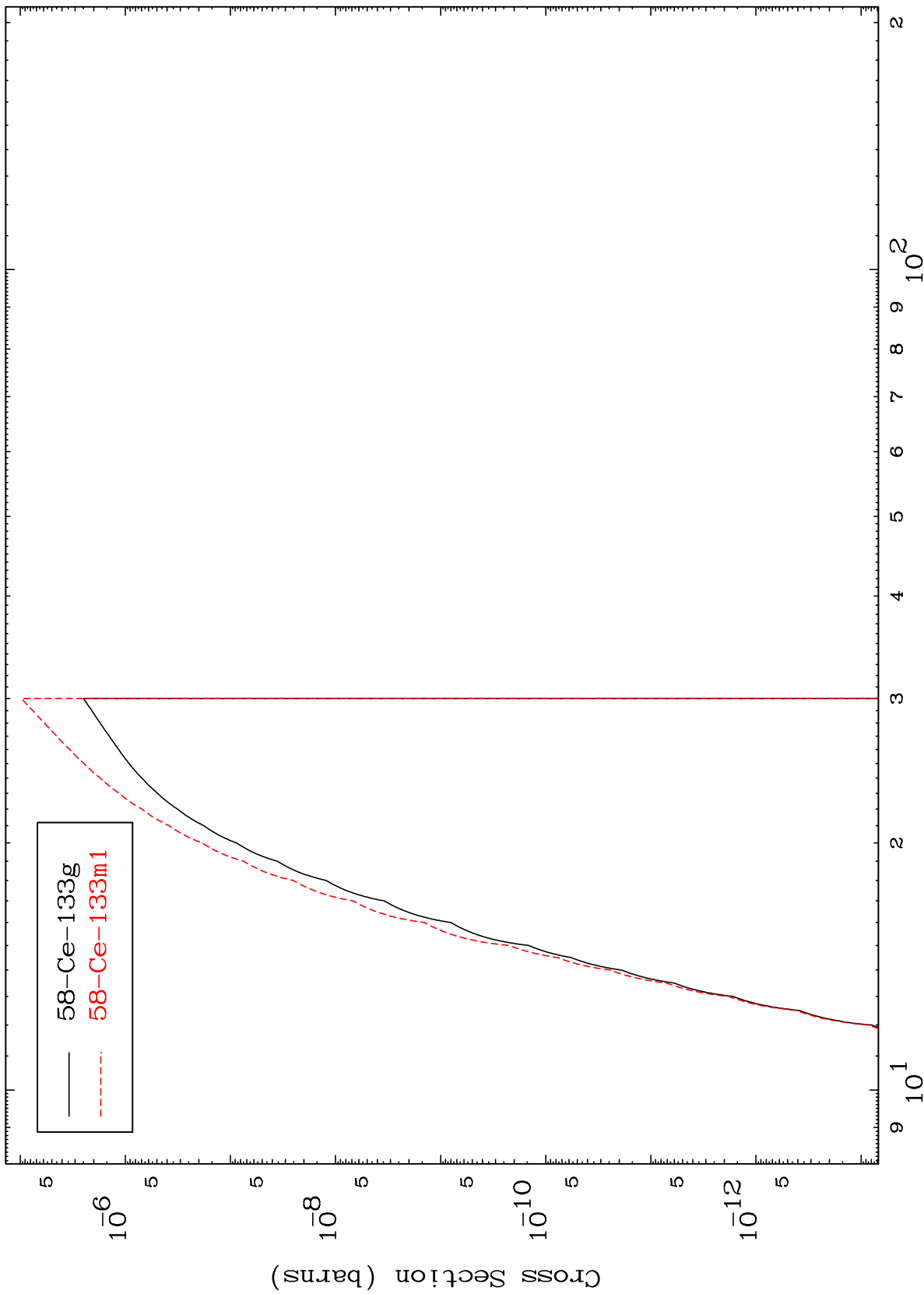
61-Pm-138

MAT 6122

(n,d) α

61-Pm-138

Radionuclide Production Cross Section



58-Ce-133g
58-Ce-133m1

133

Incident Energy (MeV)

61-Pm-138