

Program EVALPLOT
(Version 2017-1)

by

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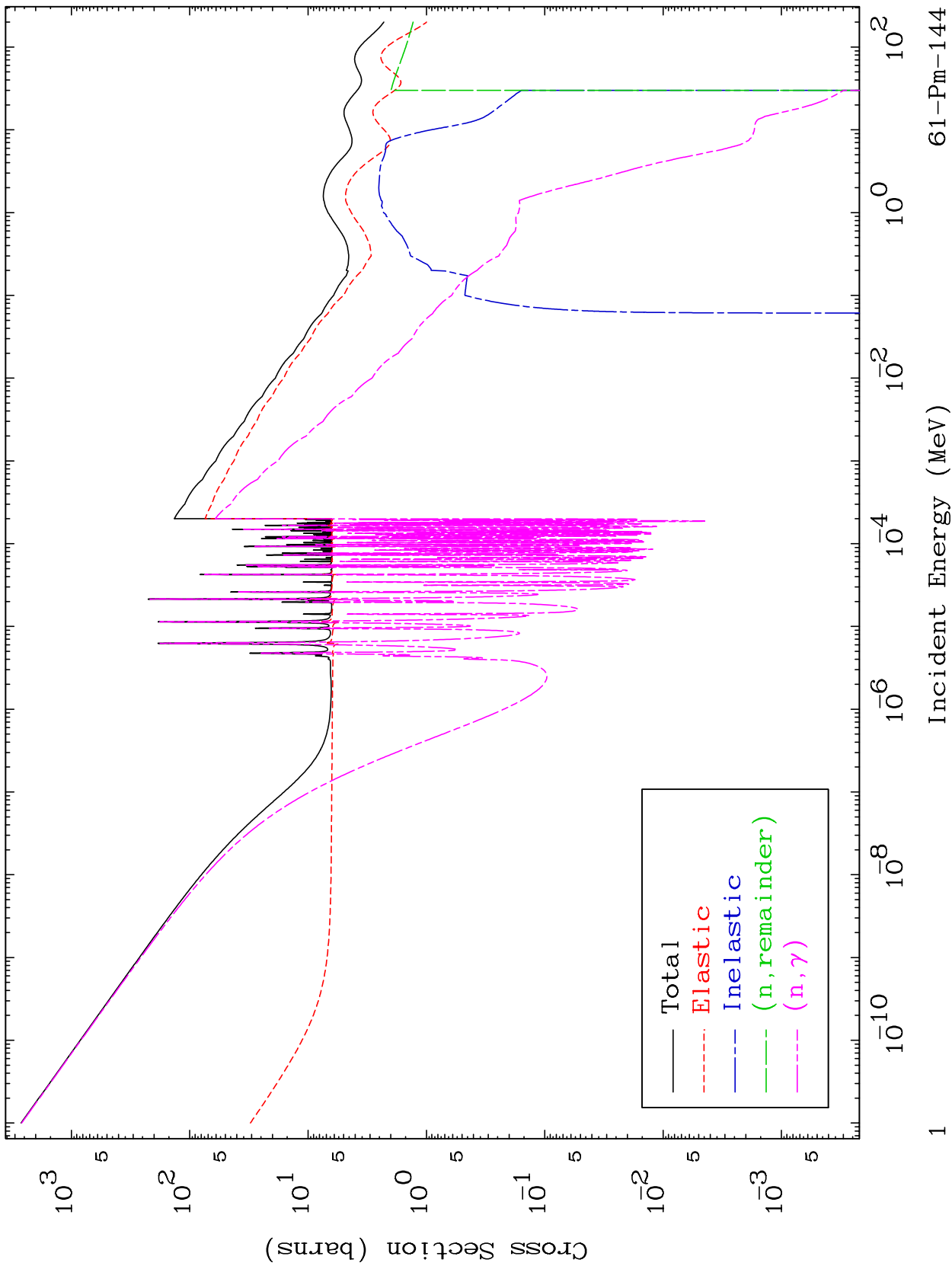
Press Mouse Button to Start

MAT 6140

Major

293 Kelvin Cross Sections

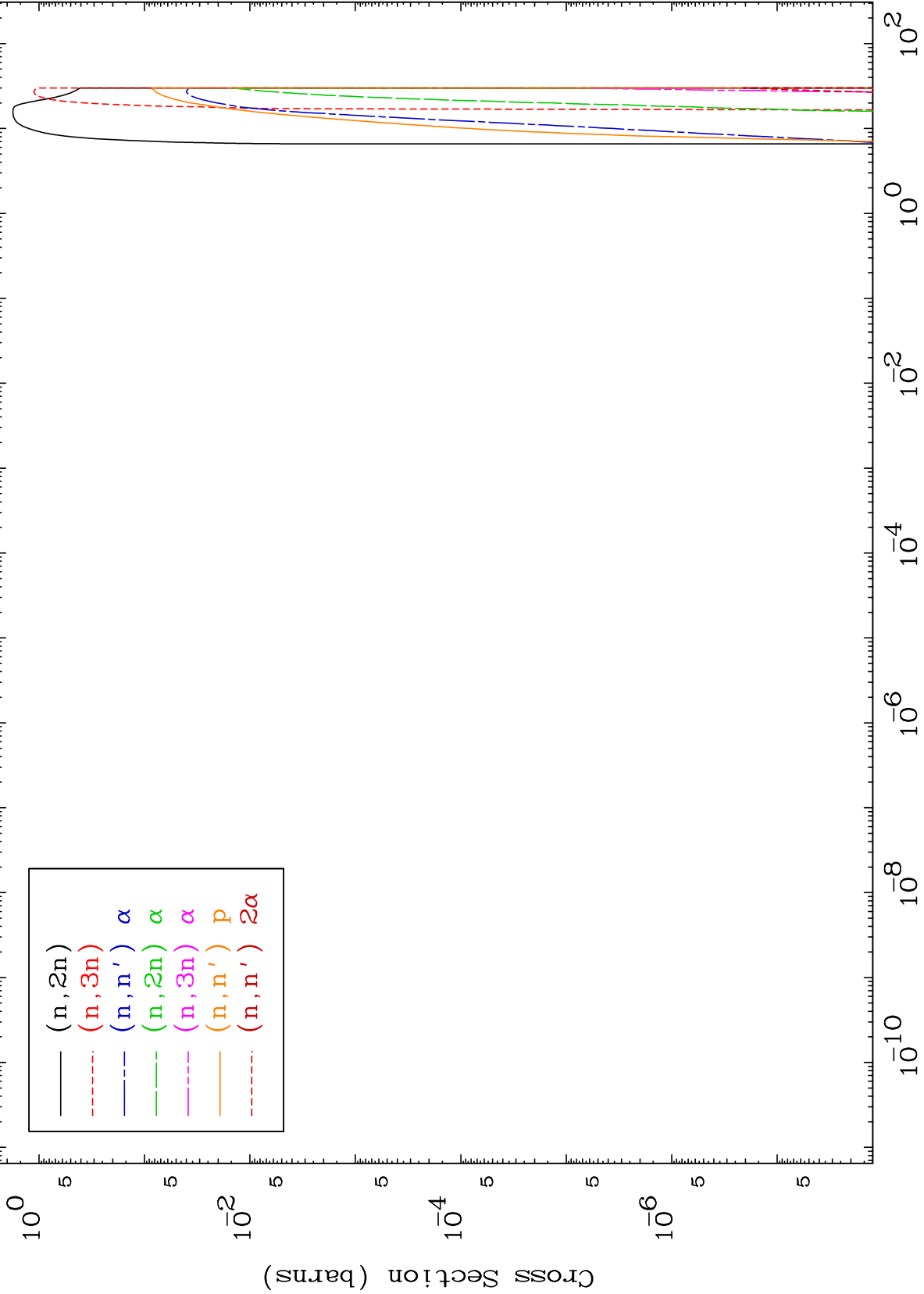
61-Pm-144



MAT 6140

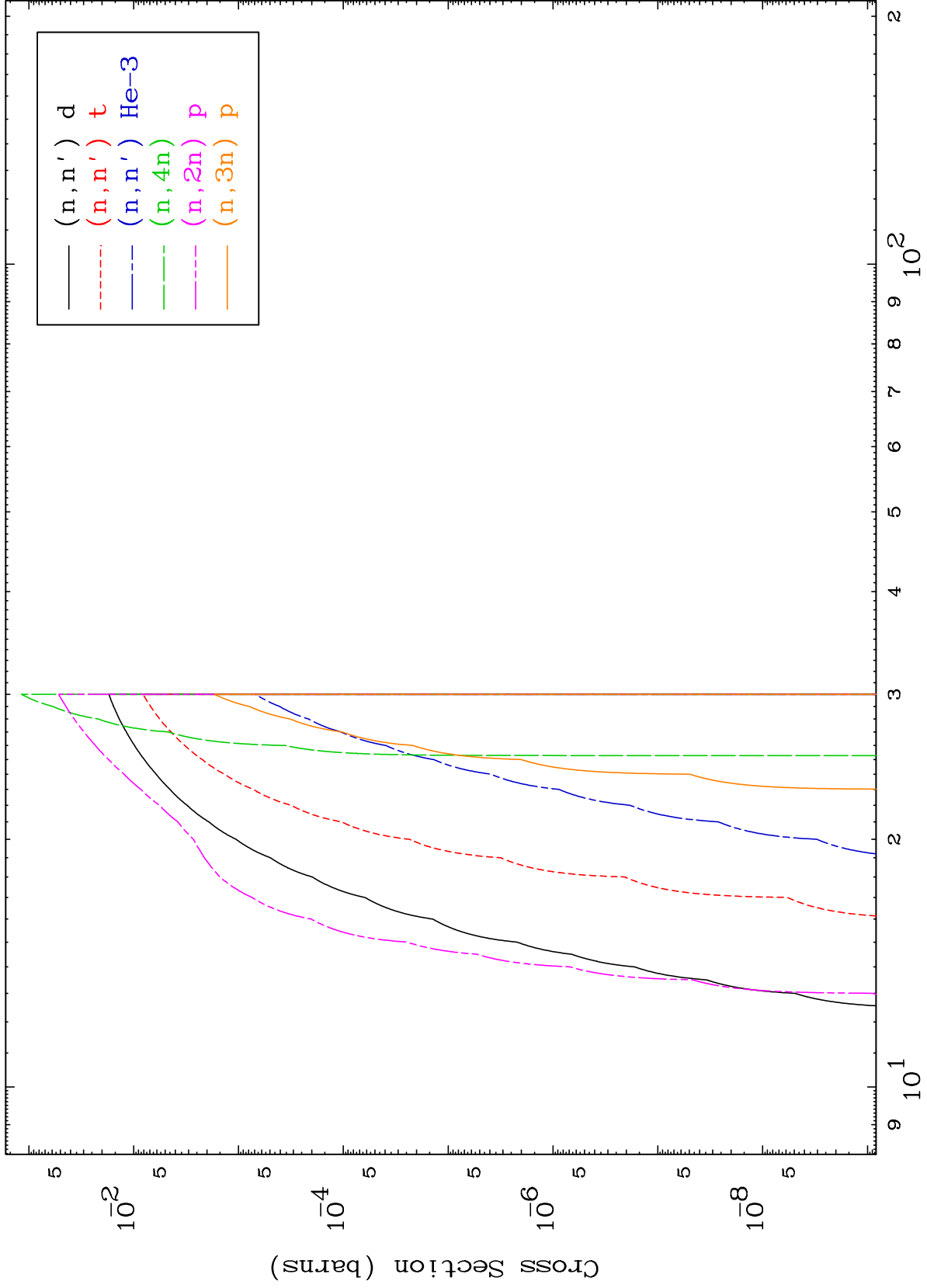
Neutron Production
293 Kelvin Cross Sections

61-Pm-144



61-Pm-144

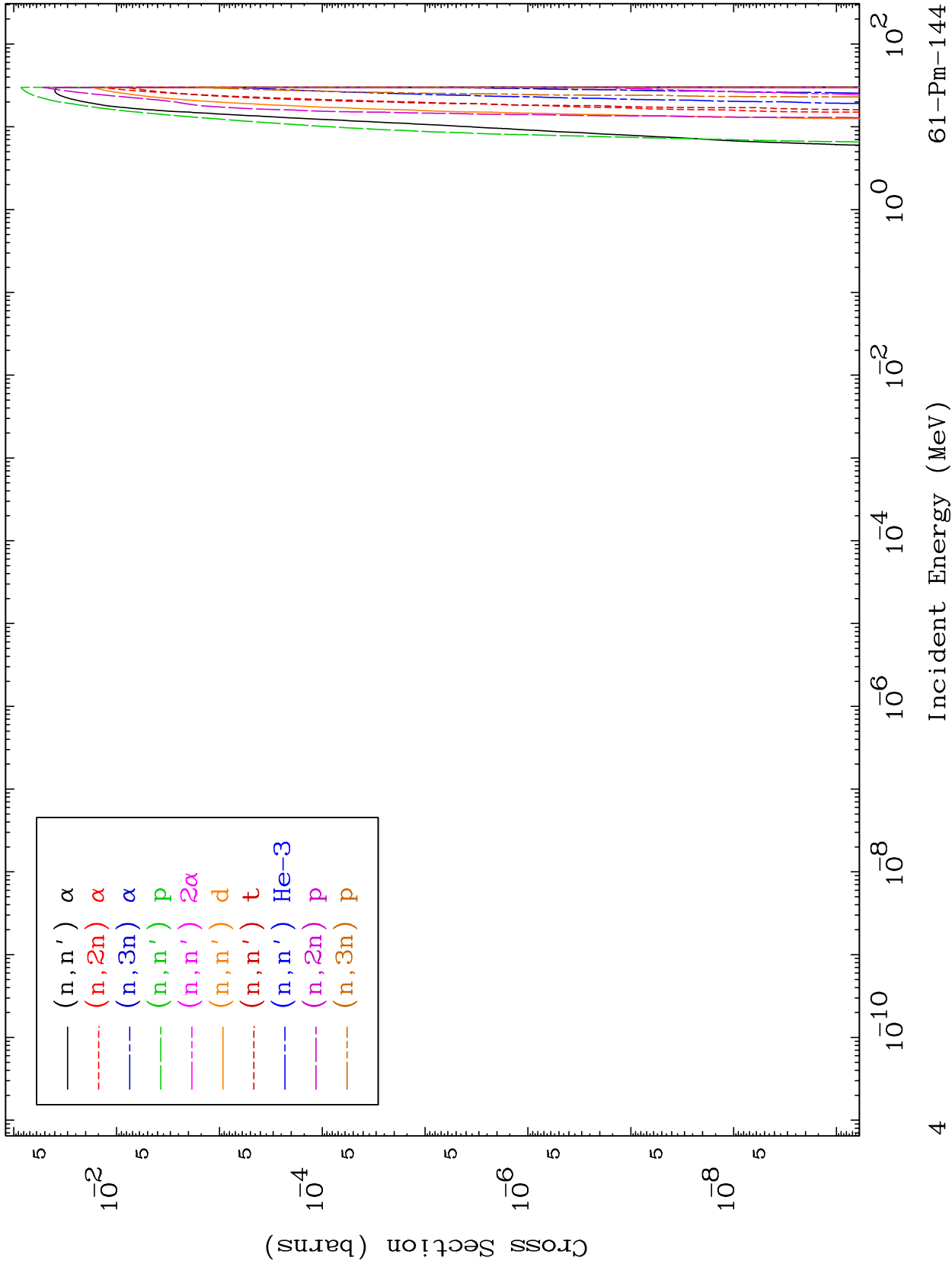
Incident Energy (MeV)



MAT 6140

Charged Particle
293 Kelvin Cross Sections

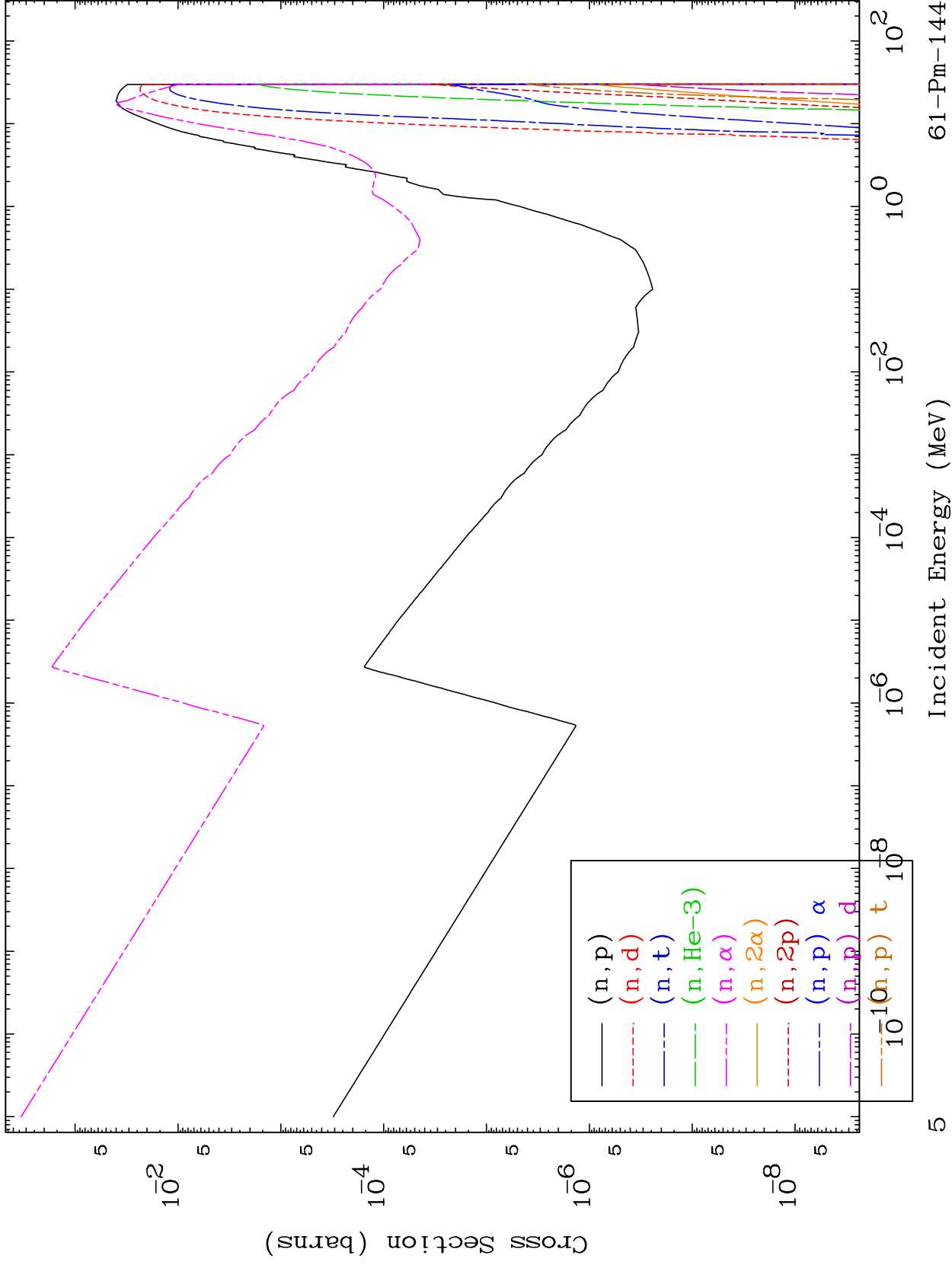
61-Pm-144



MAT 6140

Charged Particle
293 Kelvin Cross Sections

61-Pm-144



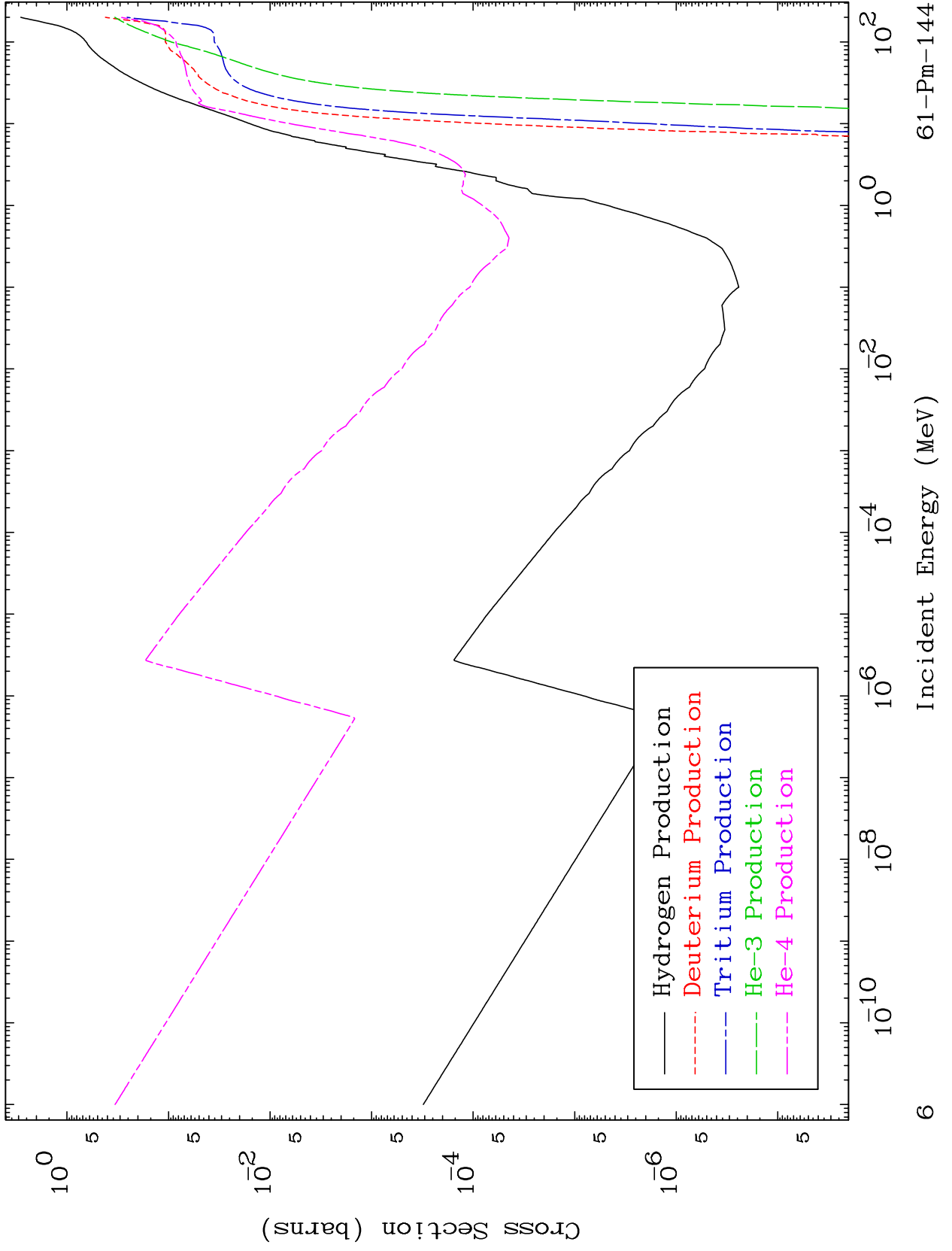
5

61-Pm-144

MAT 6140

Particle Production
293 Kelvin Cross Sections

61-Pm-144

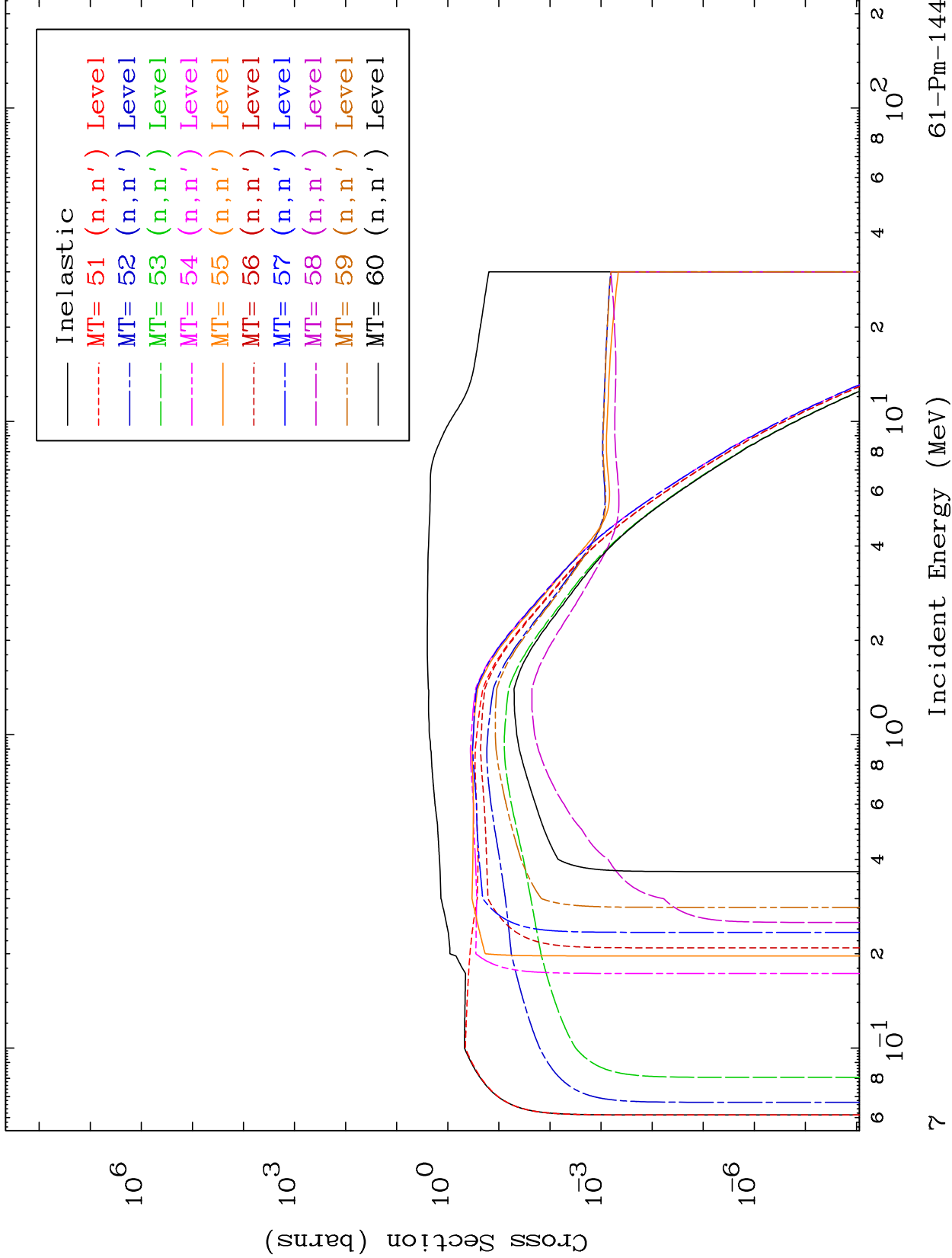


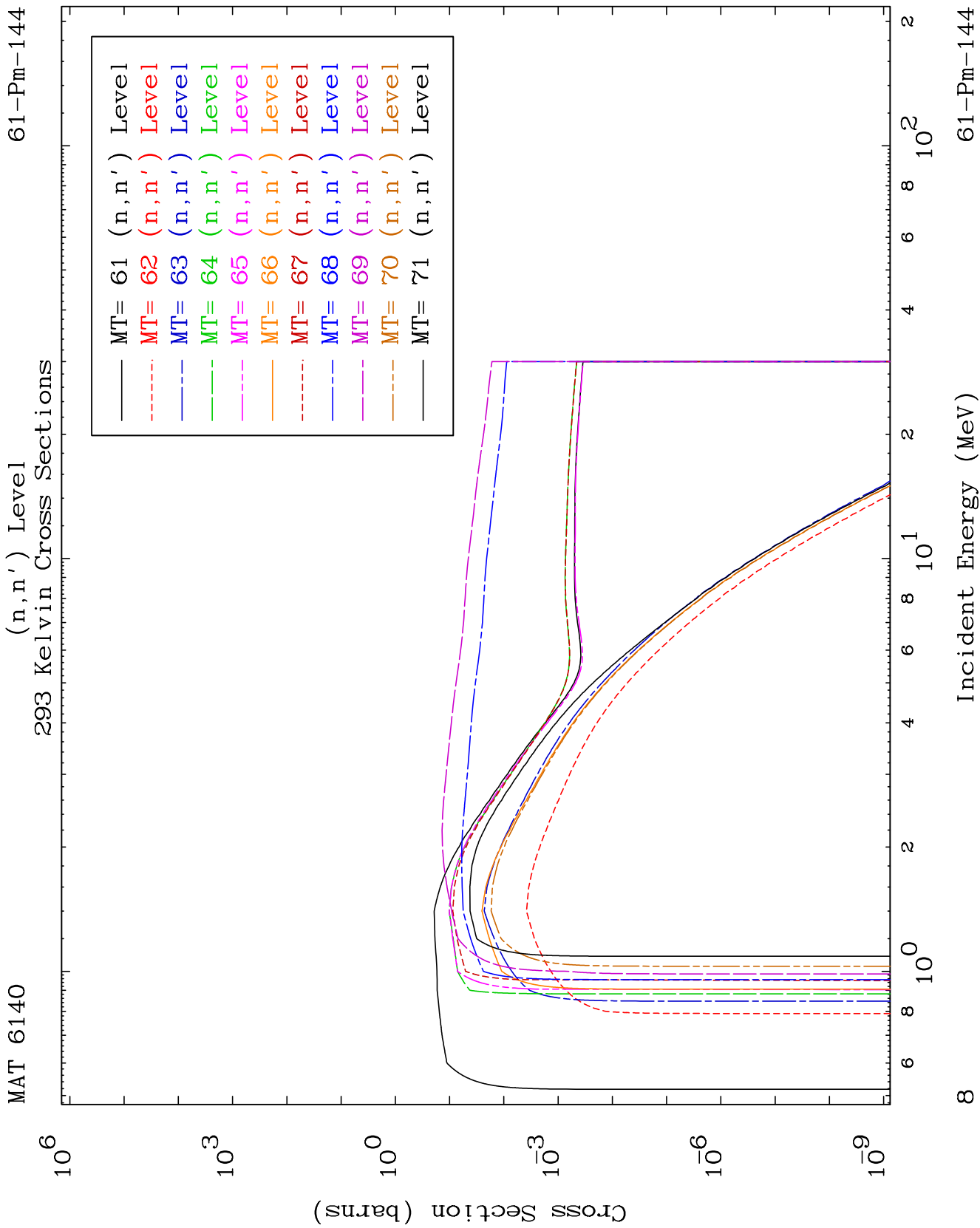
MAT 6140

(n,n') Level

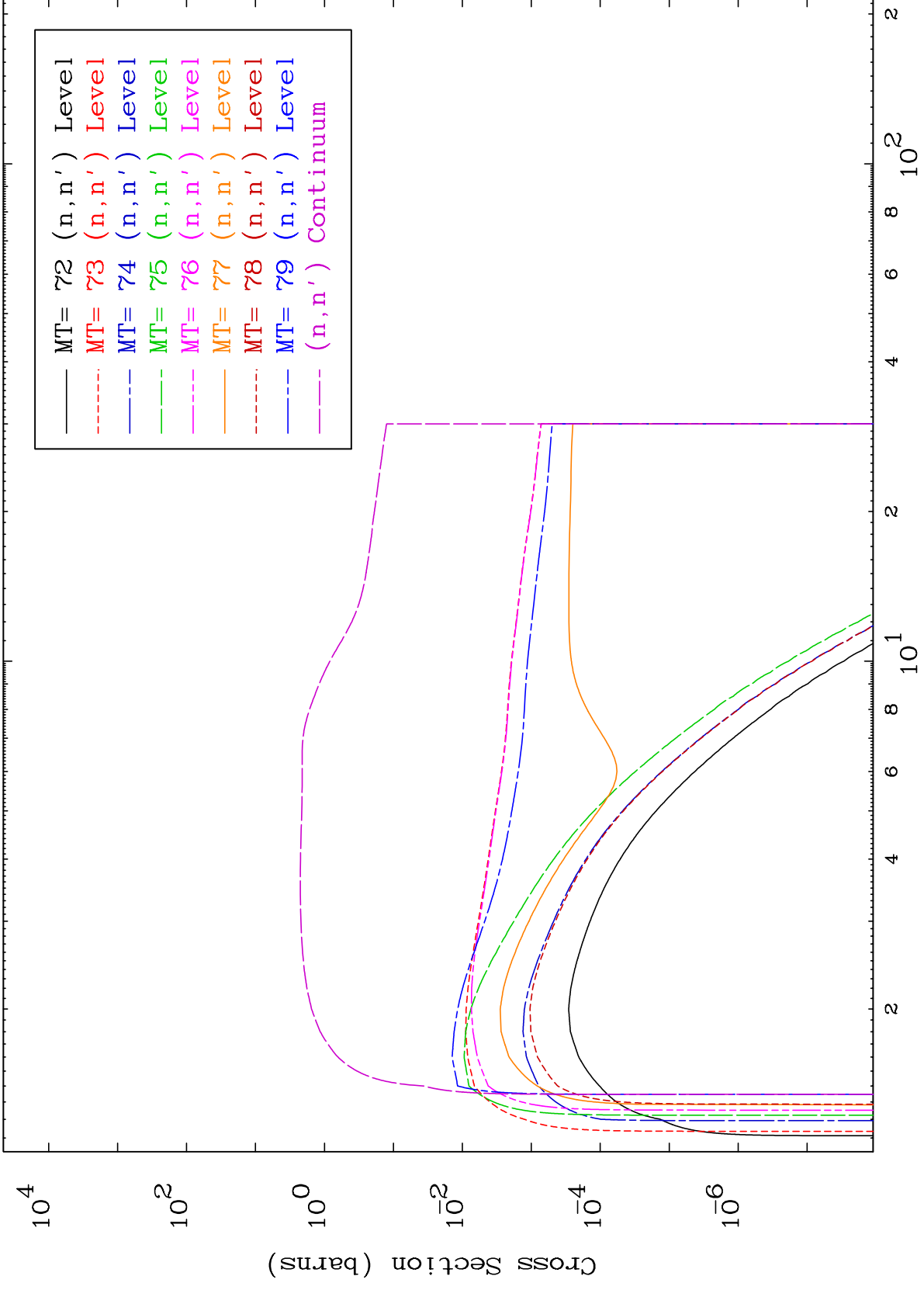
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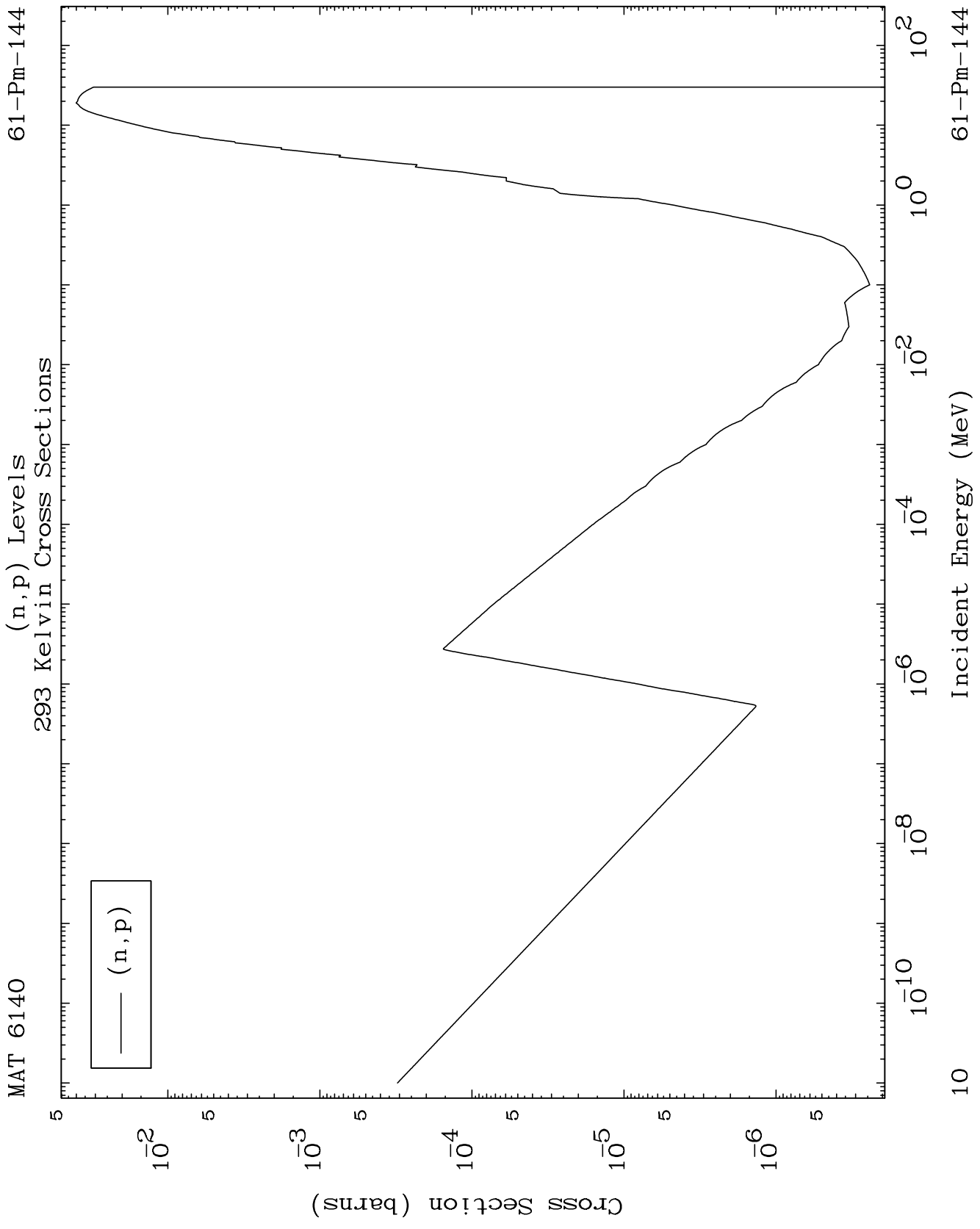
293 Kelvin Cross Sections





293 Kelvin Cross Sections

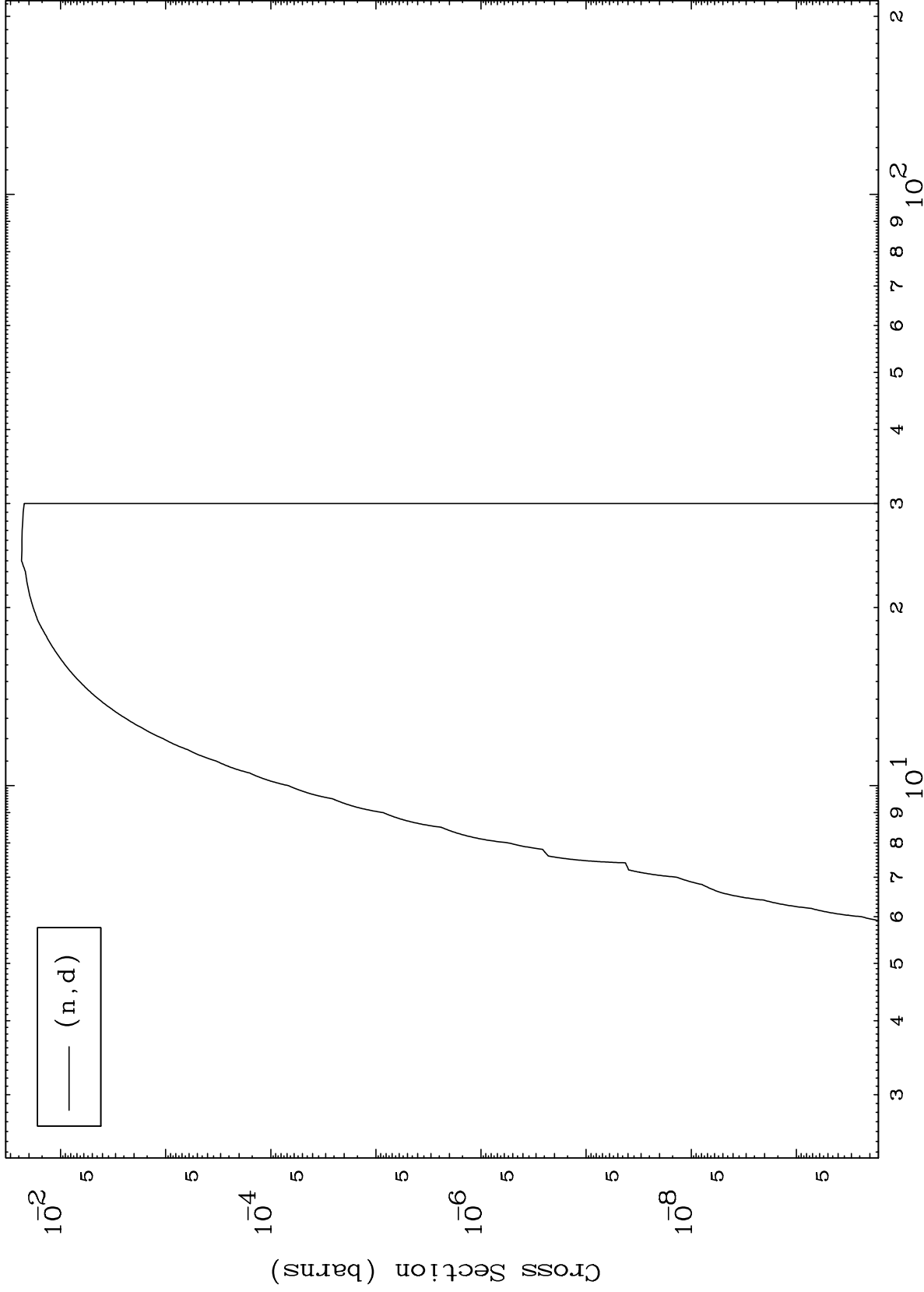




MAT 6140

(n,d) Levels
293 Kelvin Cross Sections

61-Pm-144



11

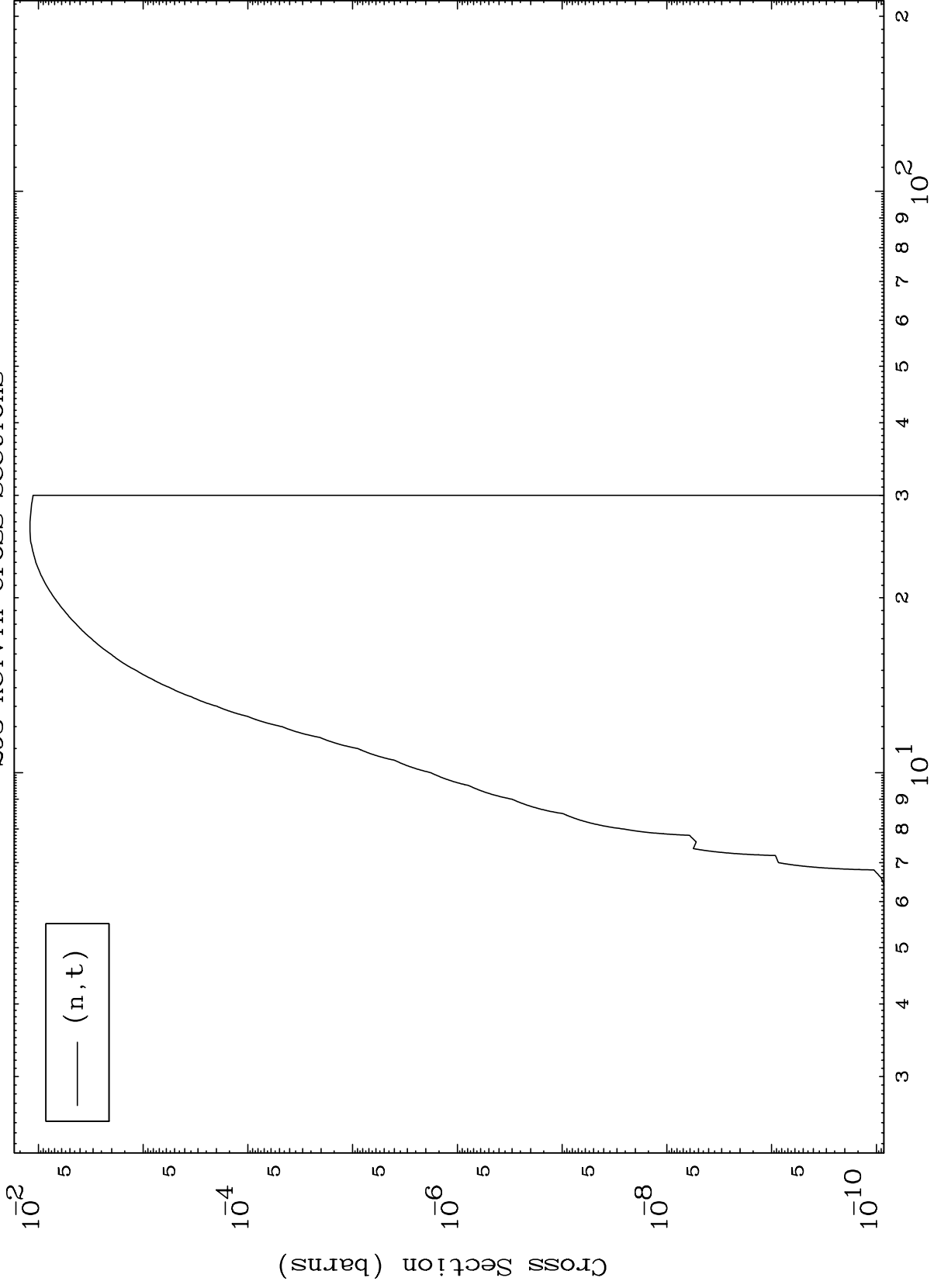
Incident Energy (MeV)

61-Pm-144

MAT 6140

(n,t) Levels
293 Kelvin Cross Sections

61-Pm-144



12

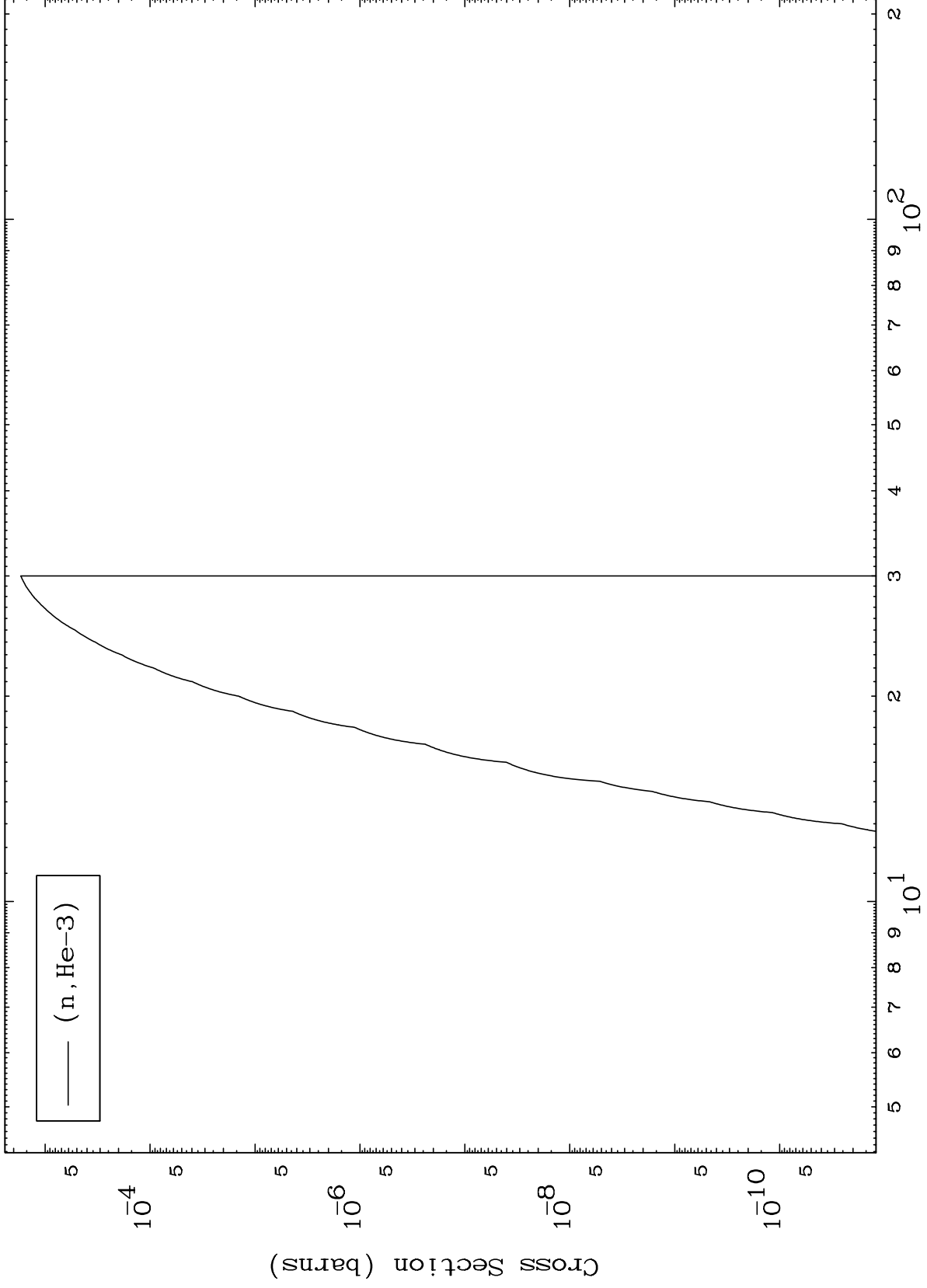
Incident Energy (MeV)

61-Pm-144

MAT 6140

(n,He3) Levels
293 Kelvin Cross Sections

61-Pm-144



13

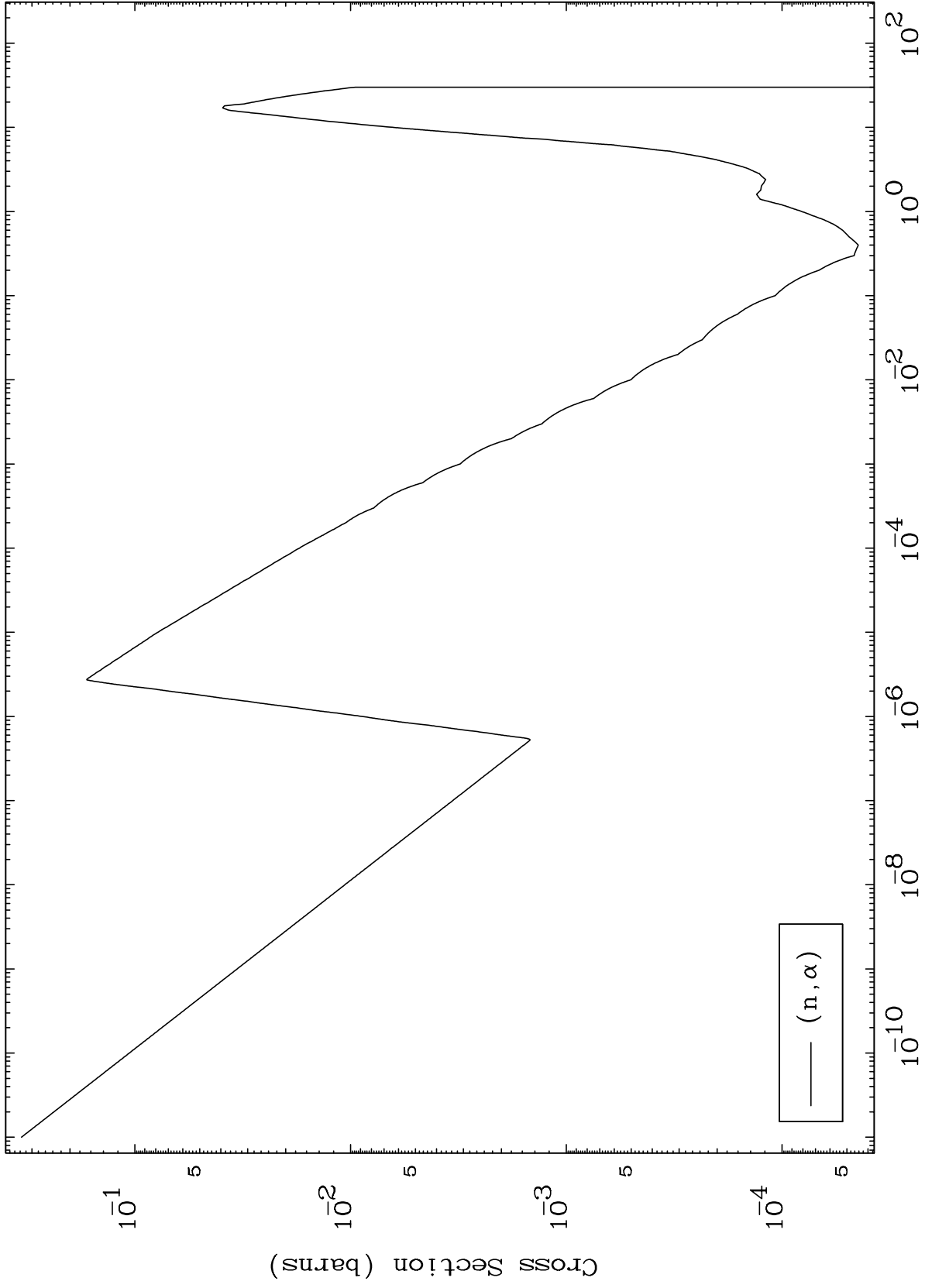
Incident Energy (MeV)

61-Pm-144

MAT 6140

(n, α) Levels
293 Kelvin Cross Sections

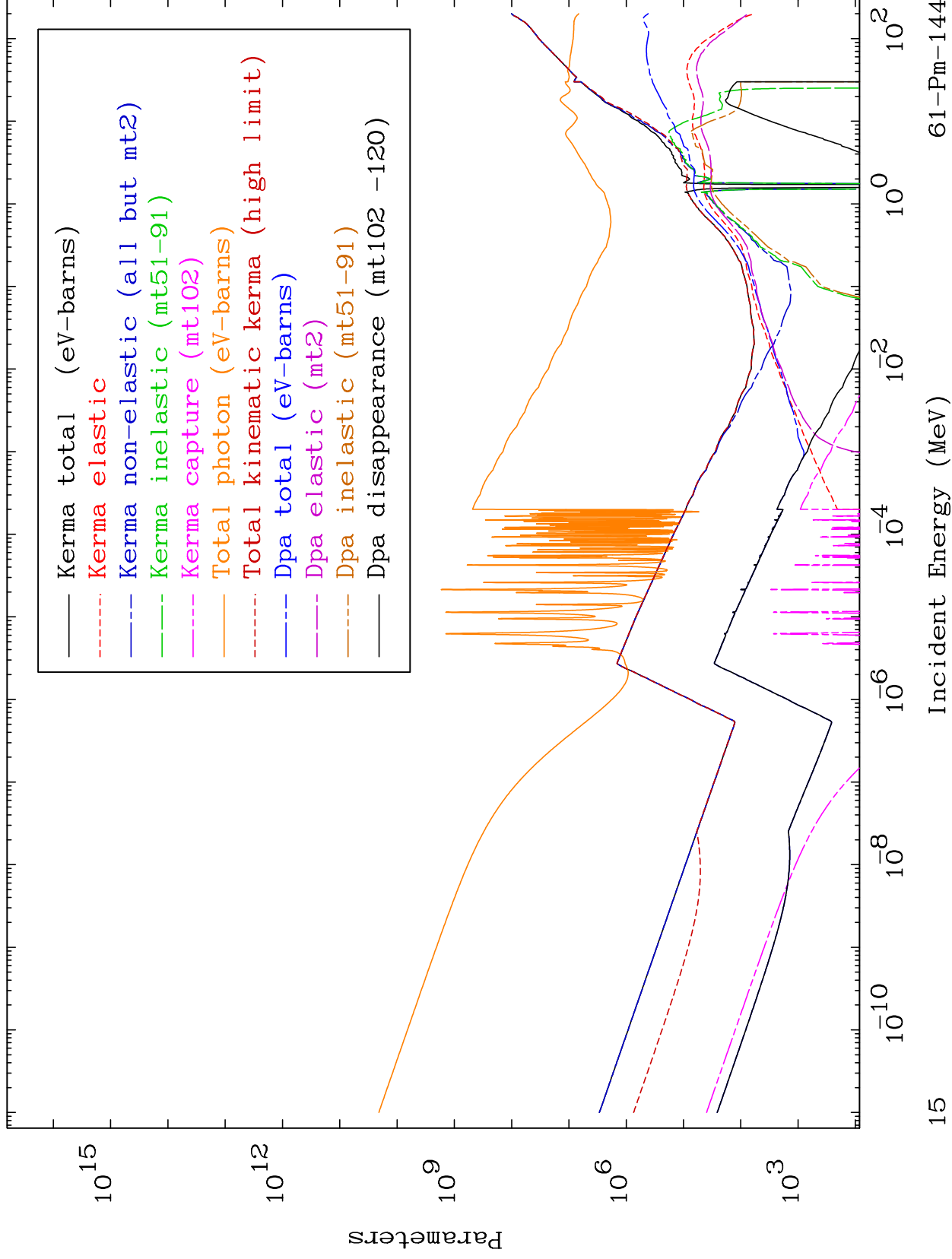
61-Pm-144

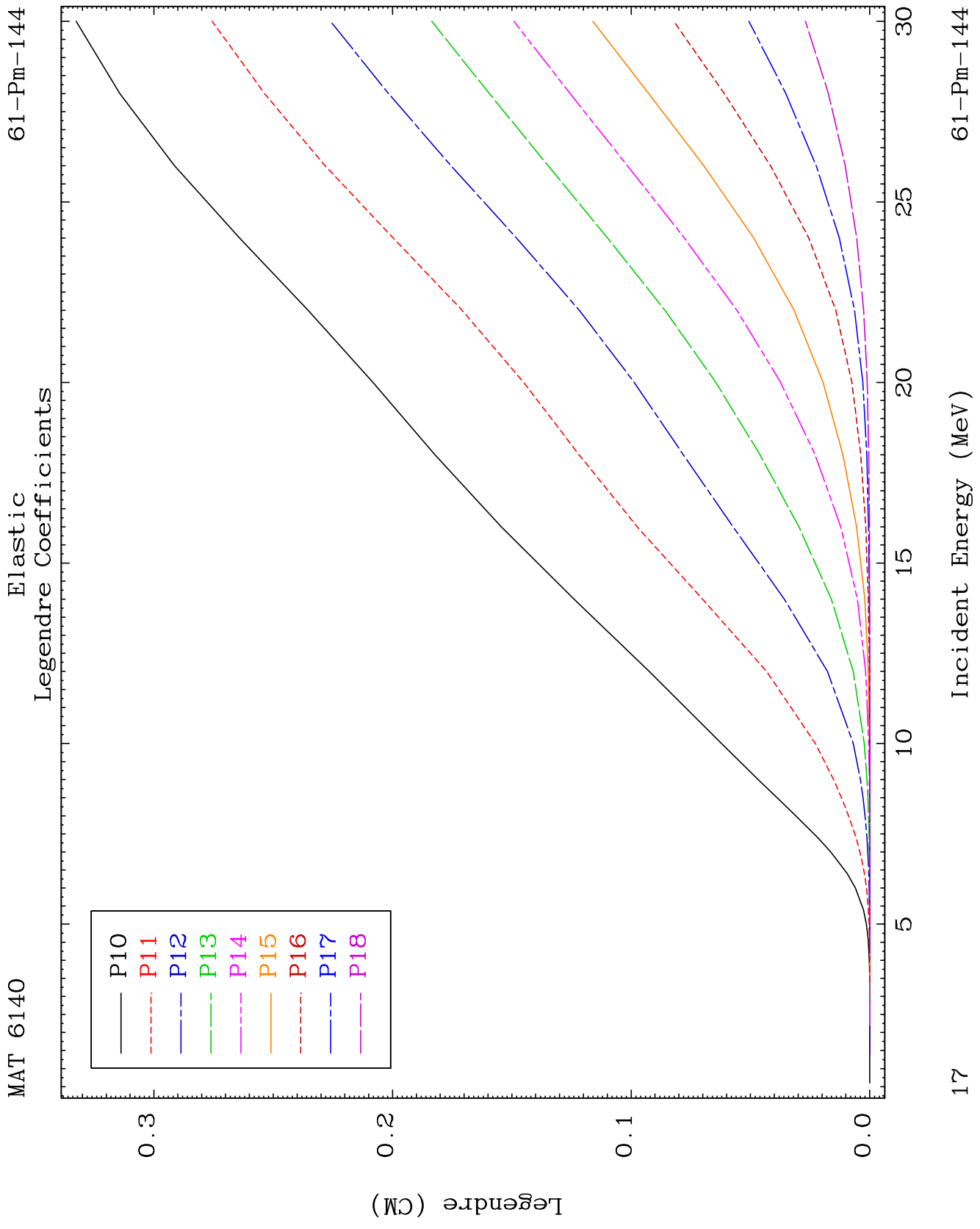


14

Incident Energy (MeV)

61-Pm-144

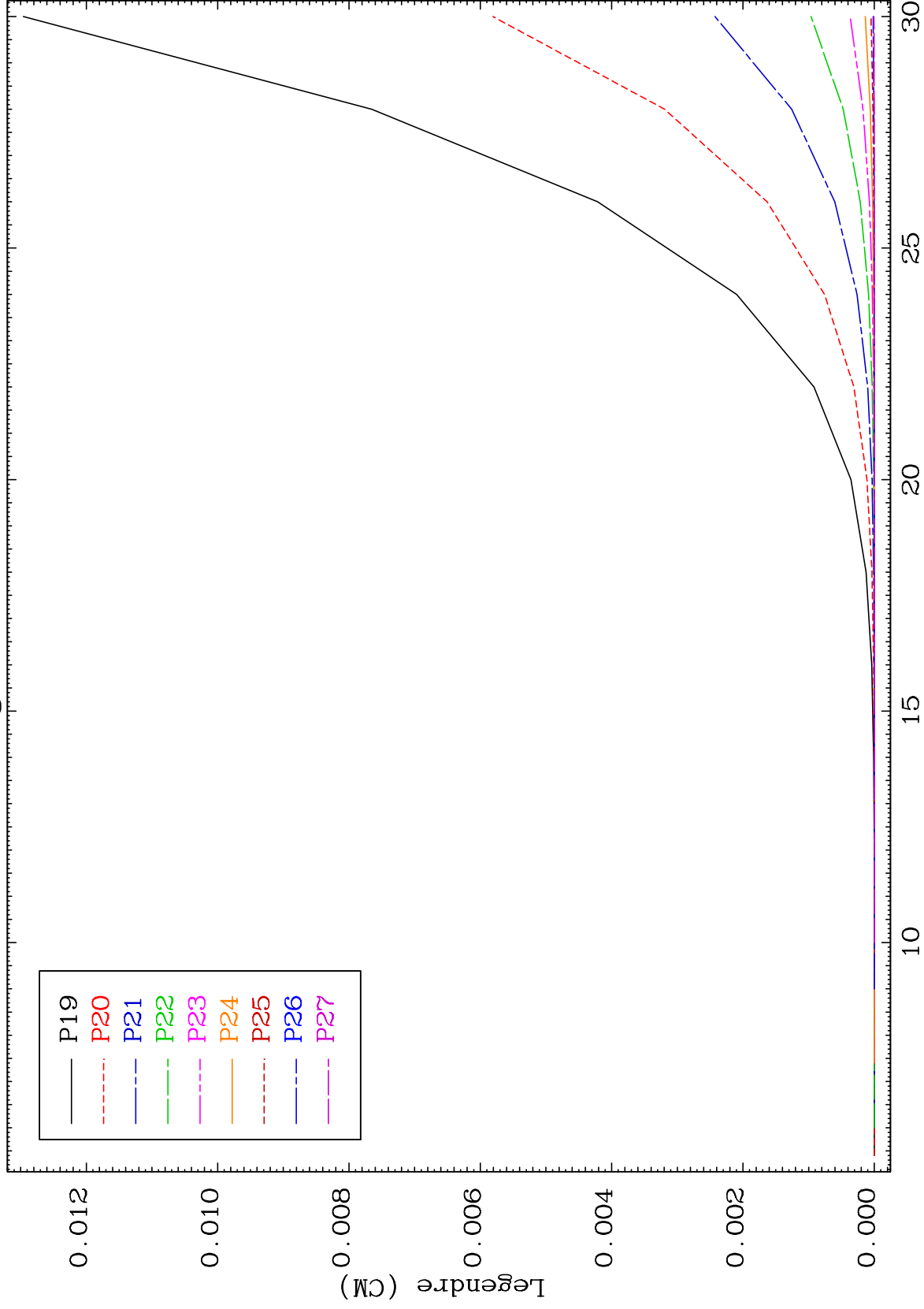




MAT 6140

Elastic Legendre Coefficients

61-Pm-144



18

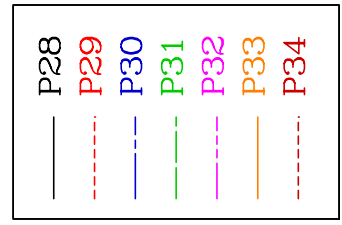
Incident Energy (MeV)

61-Pm-144

MAT 6140

Elastic Legendre Coefficients

61-Pm-144



$\times 10^{-6}$
1.5

1.0

Legendre (CM)

0.5

0.0

15

20

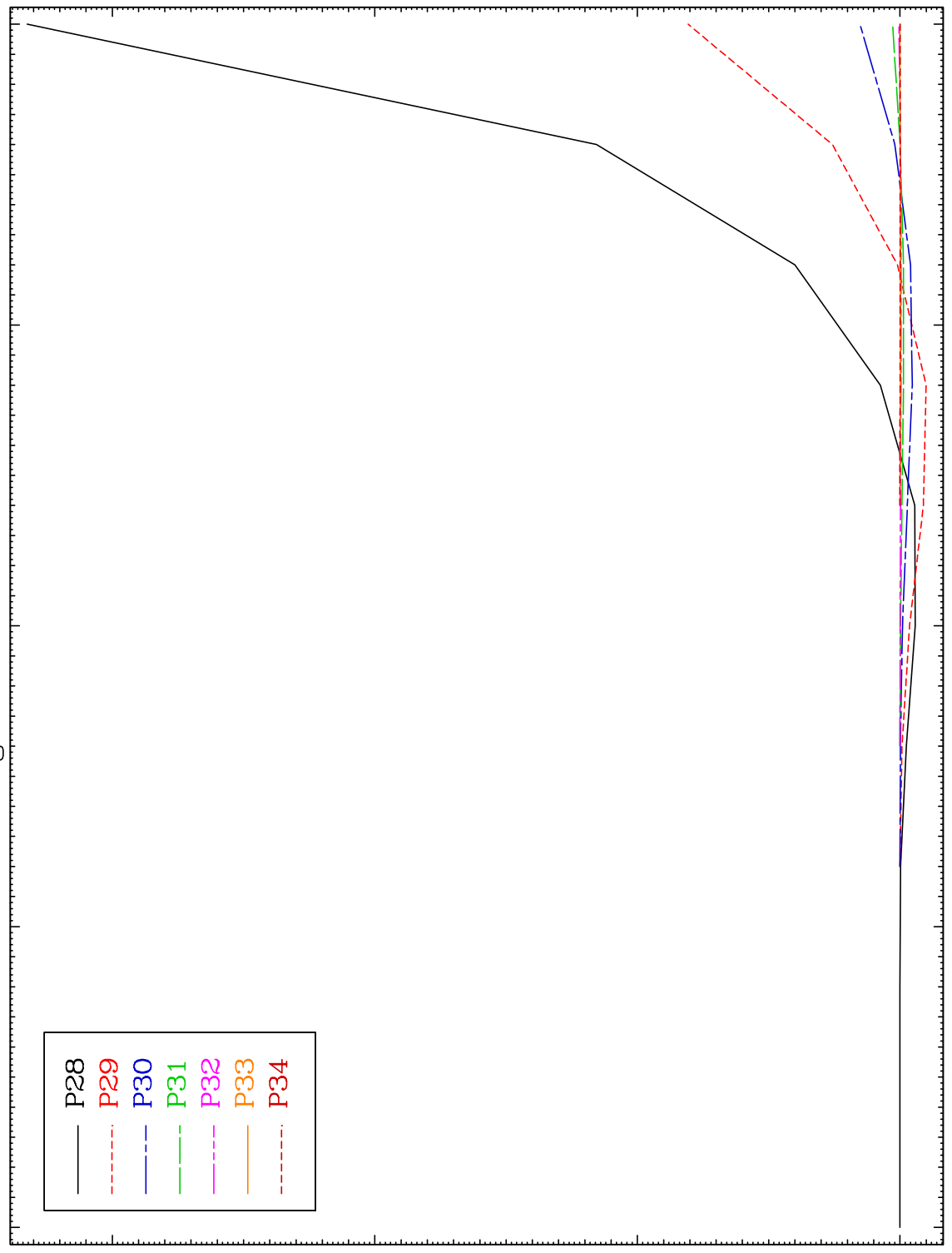
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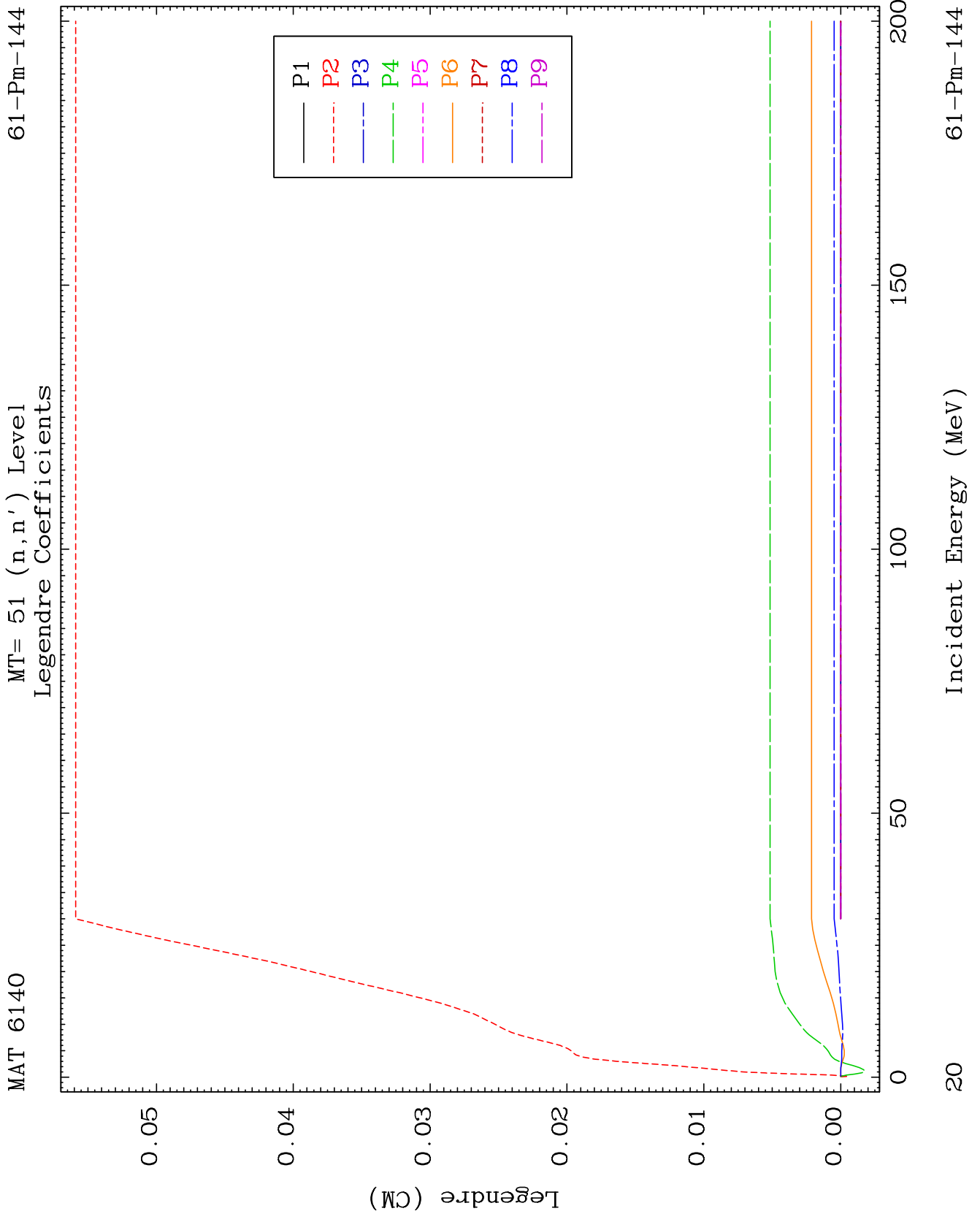
30

19

Incident Energy (MeV)

61-Pm-144

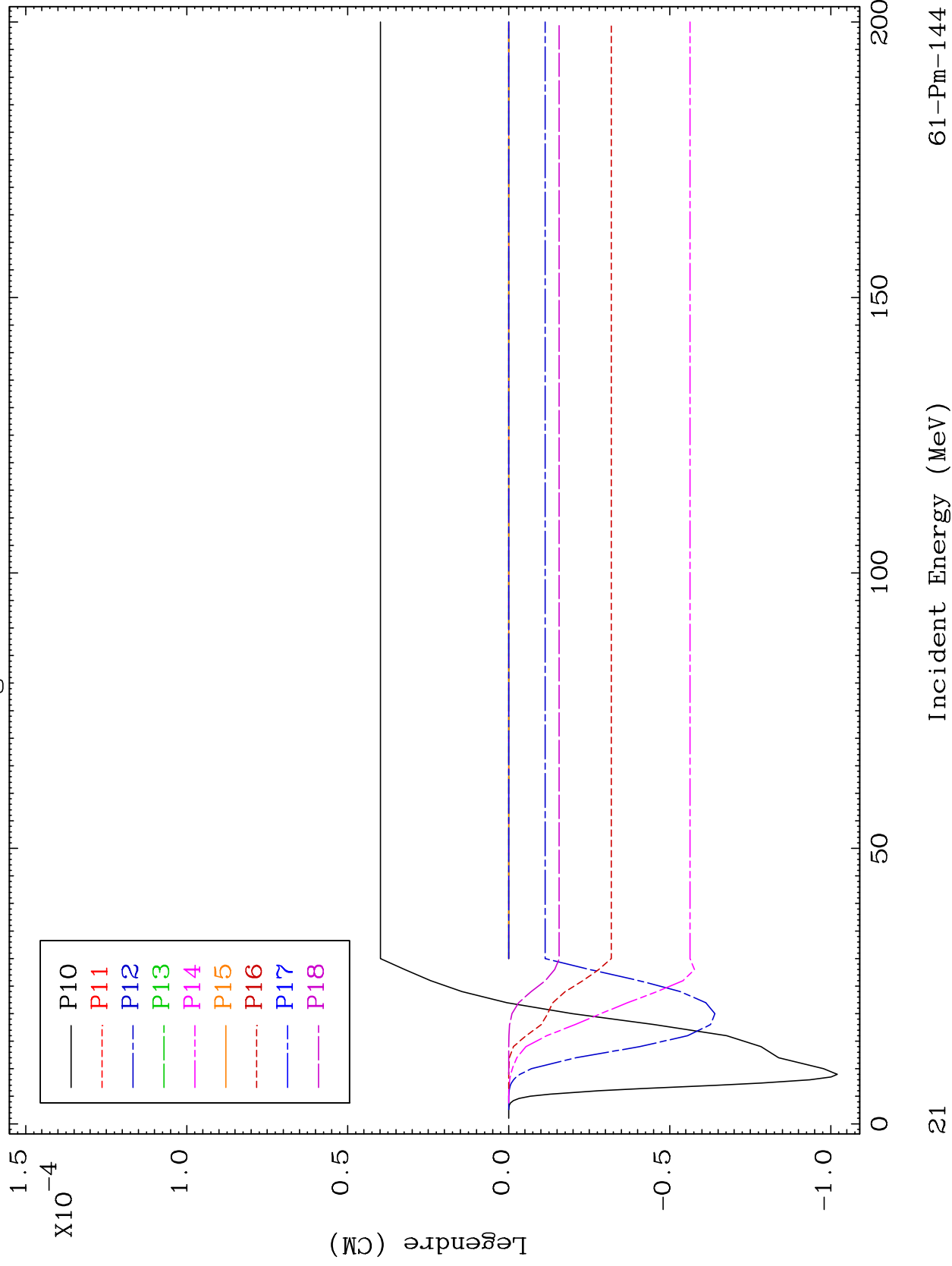




MAT 6140

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

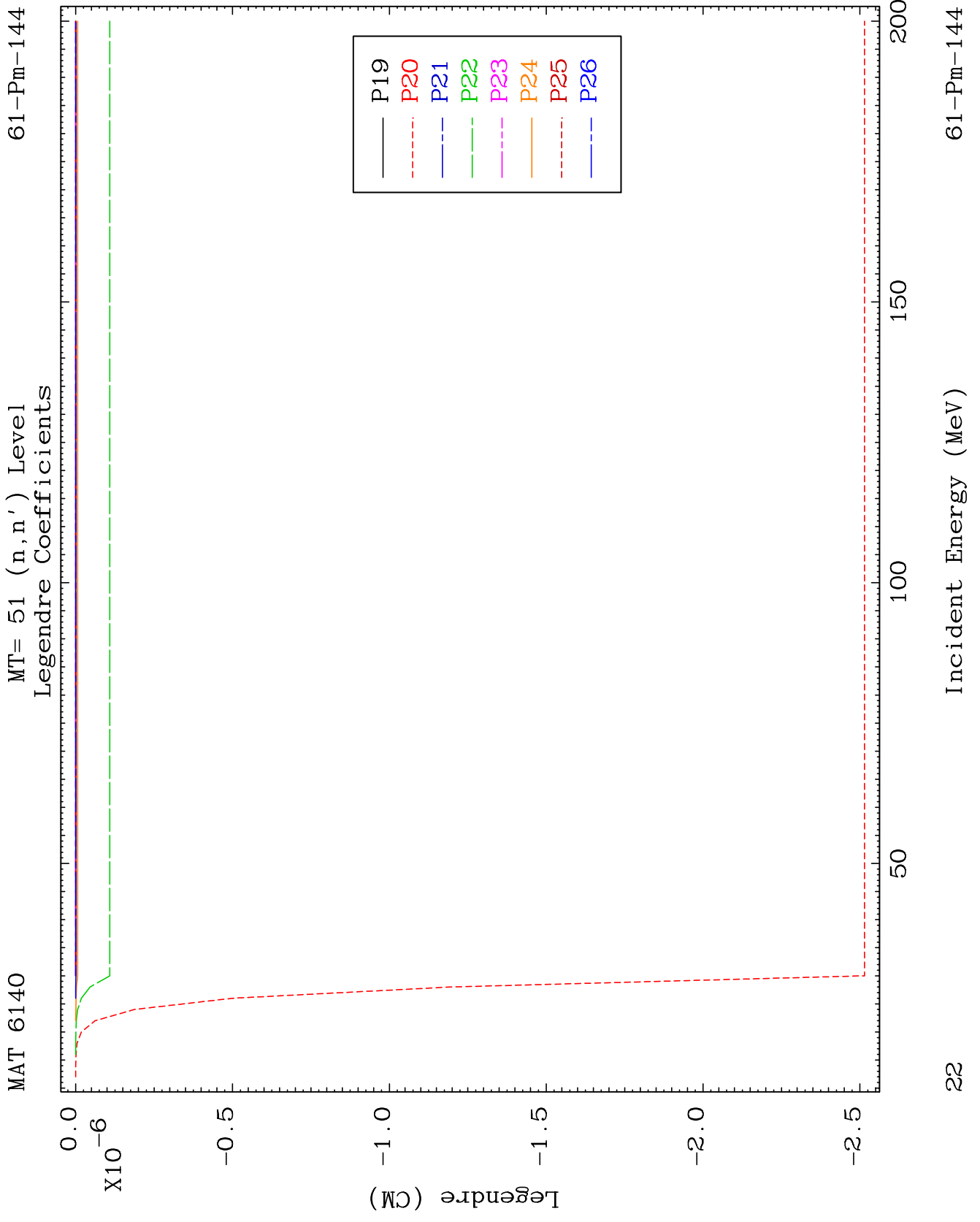
61-Pm-144



21

Incident Energy (MeV)

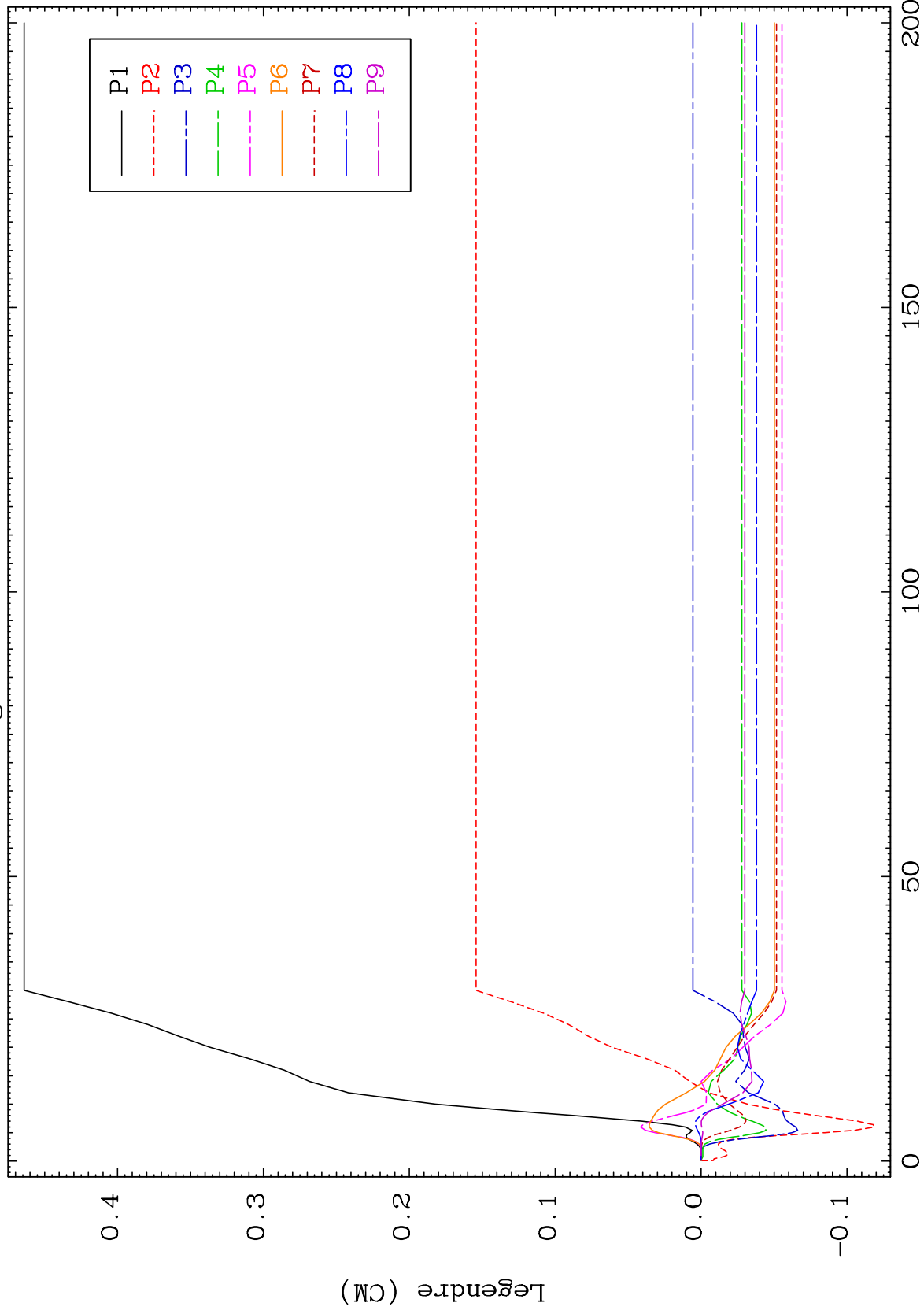
61-Pm-144



MAT 6140

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

61-Pm-144



23

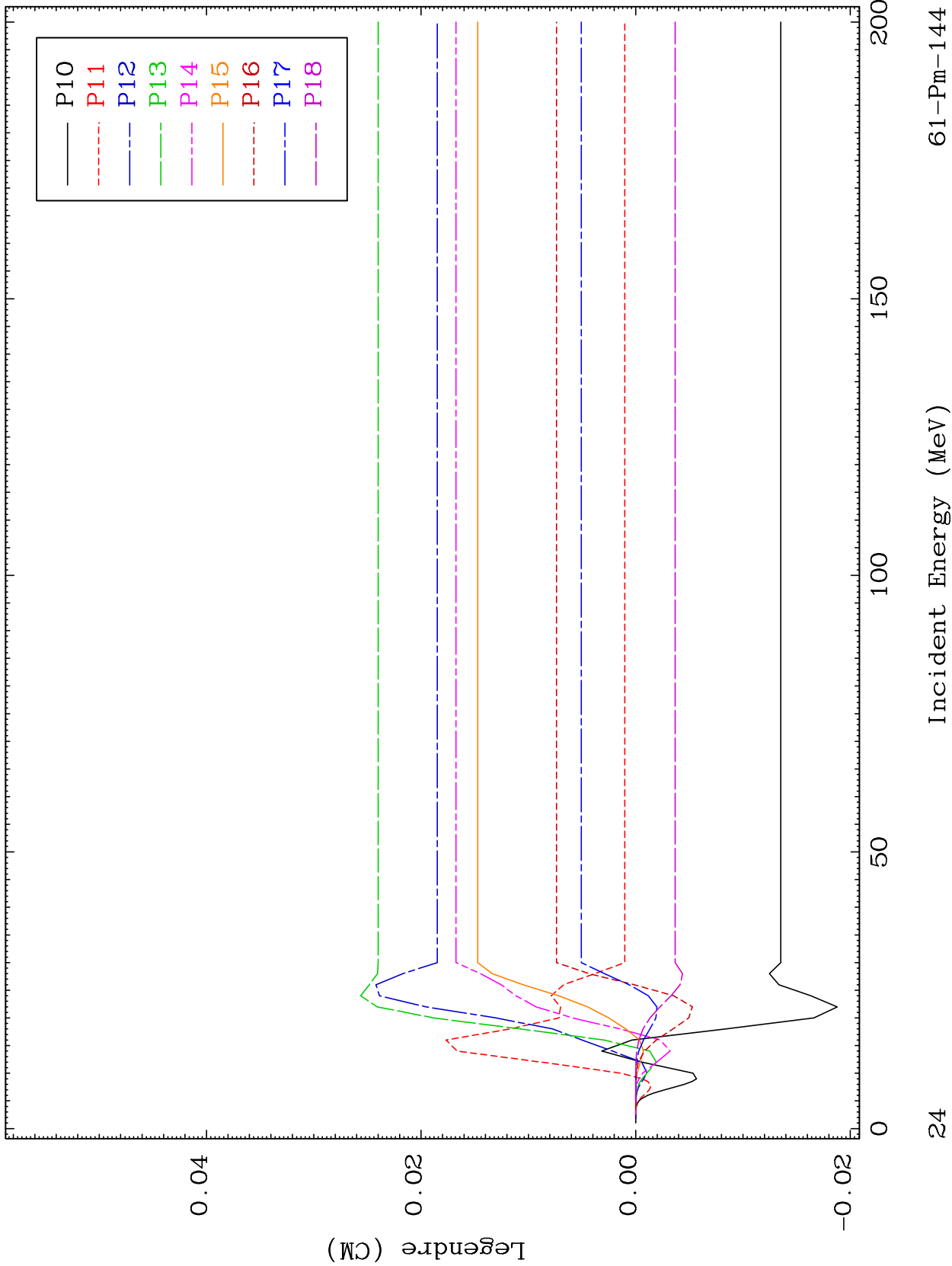
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

61-Pm-144



61-Pm-144

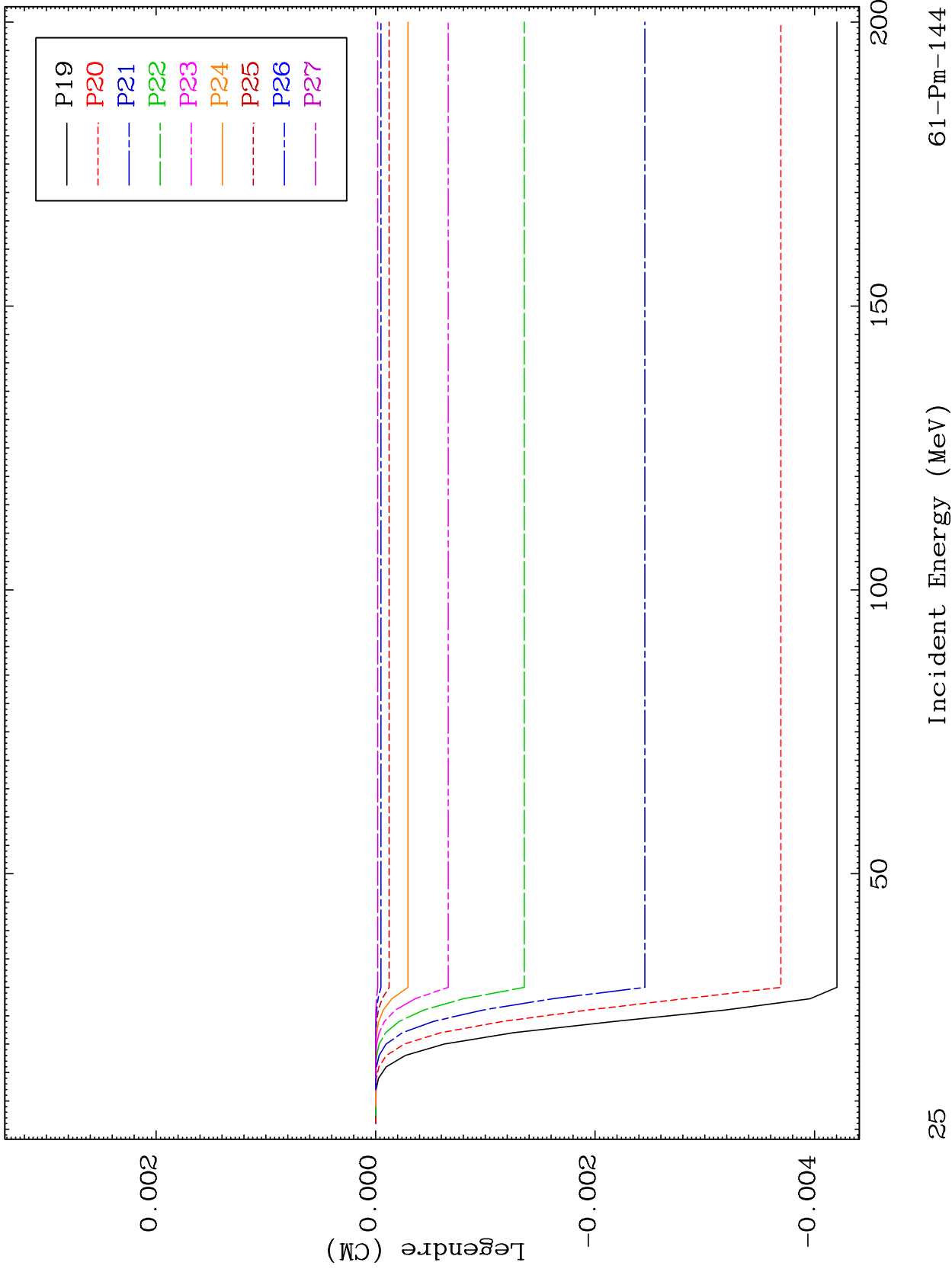
Incident Energy (MeV)

24

MAT 6140

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

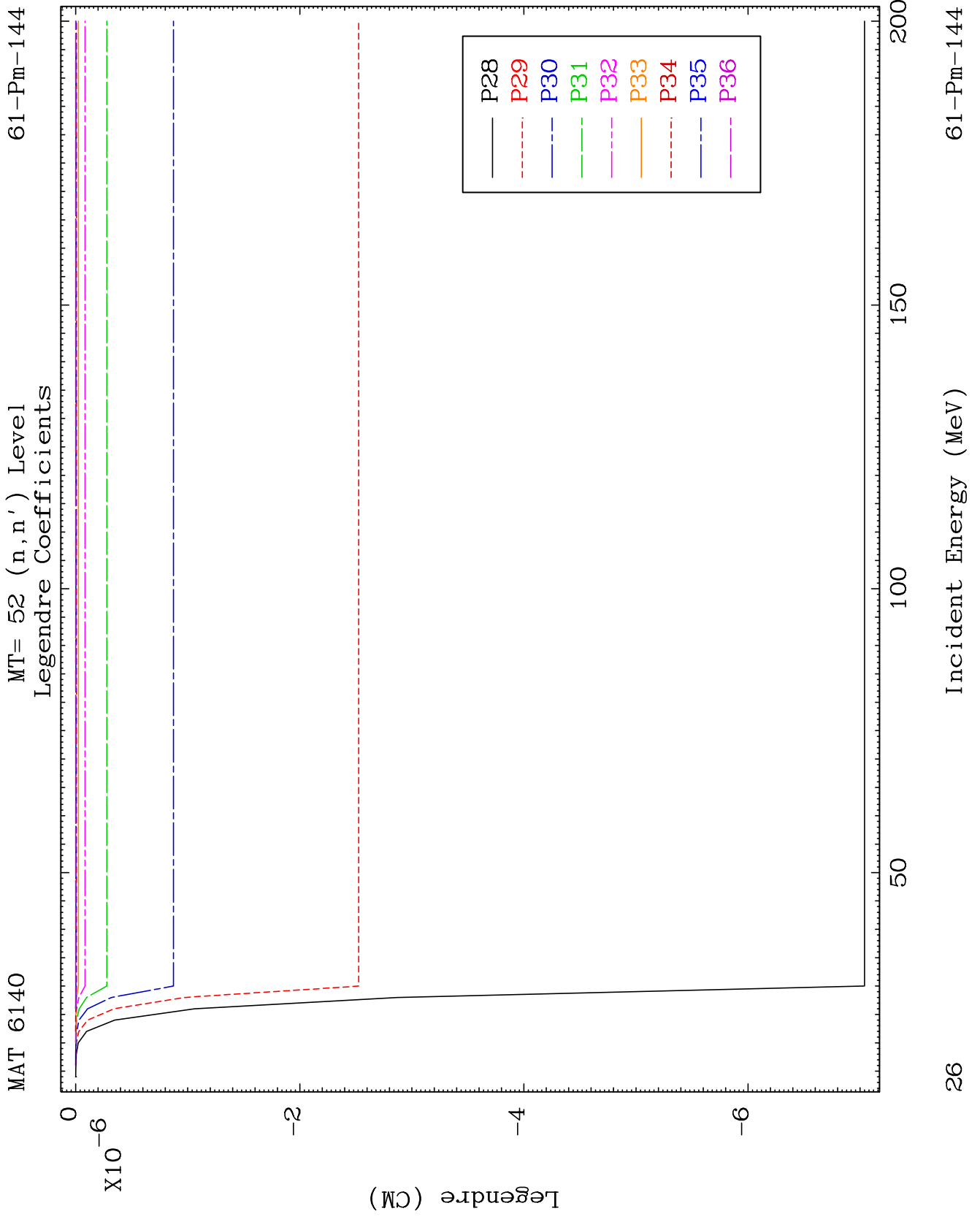
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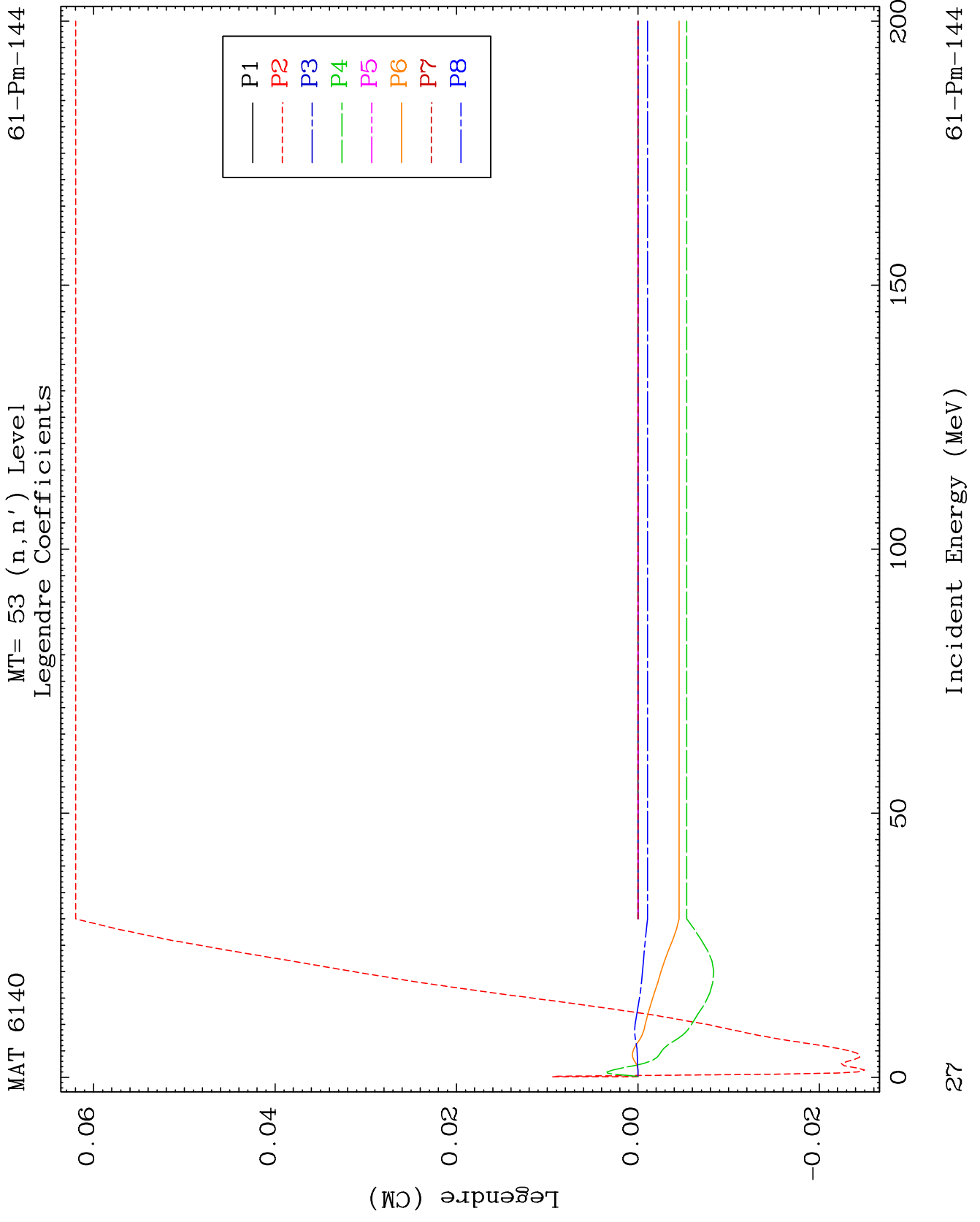


25

Incident Energy (MeV)

61-Pm-144

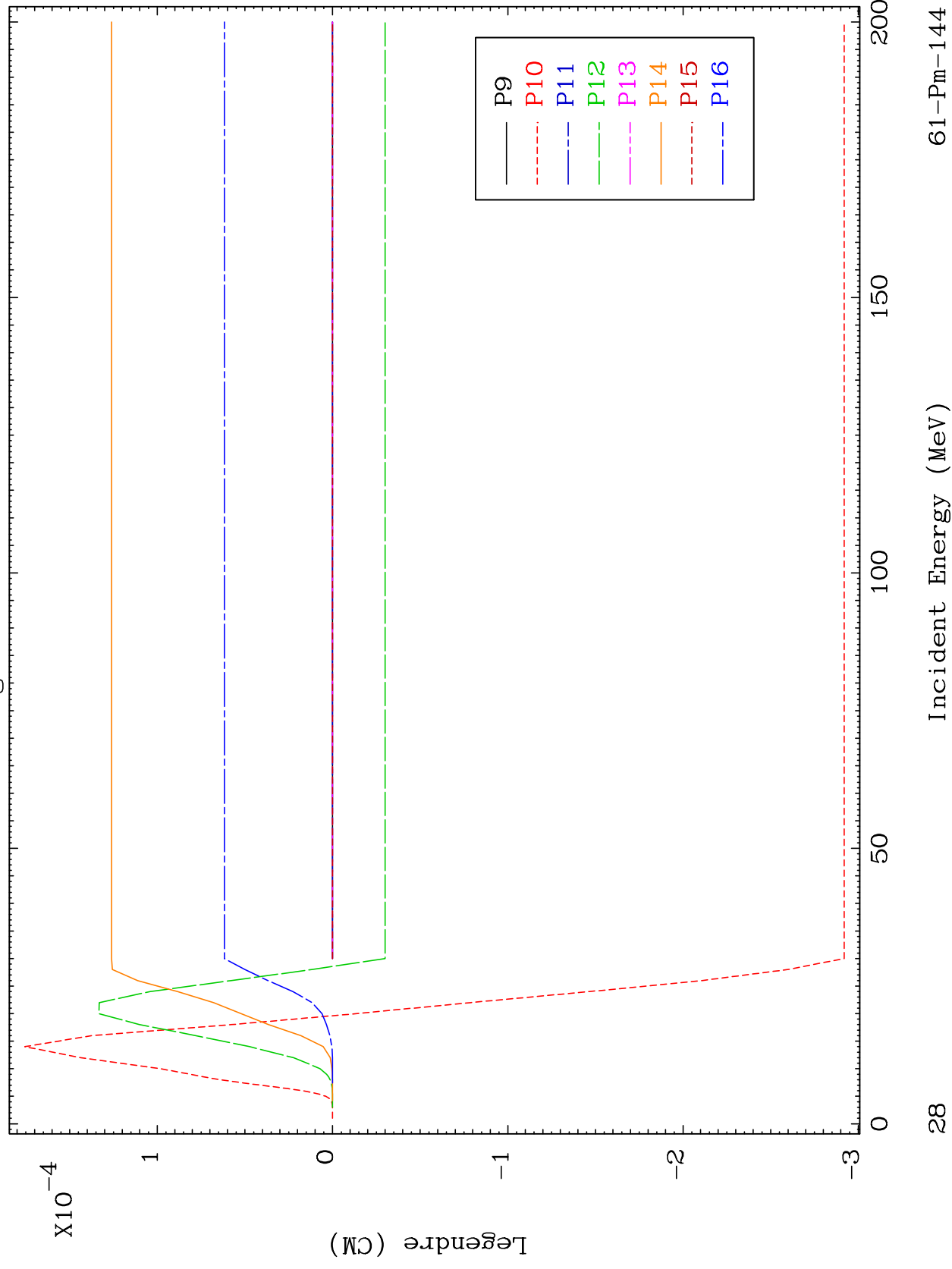




MAT 6140

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

61-Pm-144



61-Pm-144

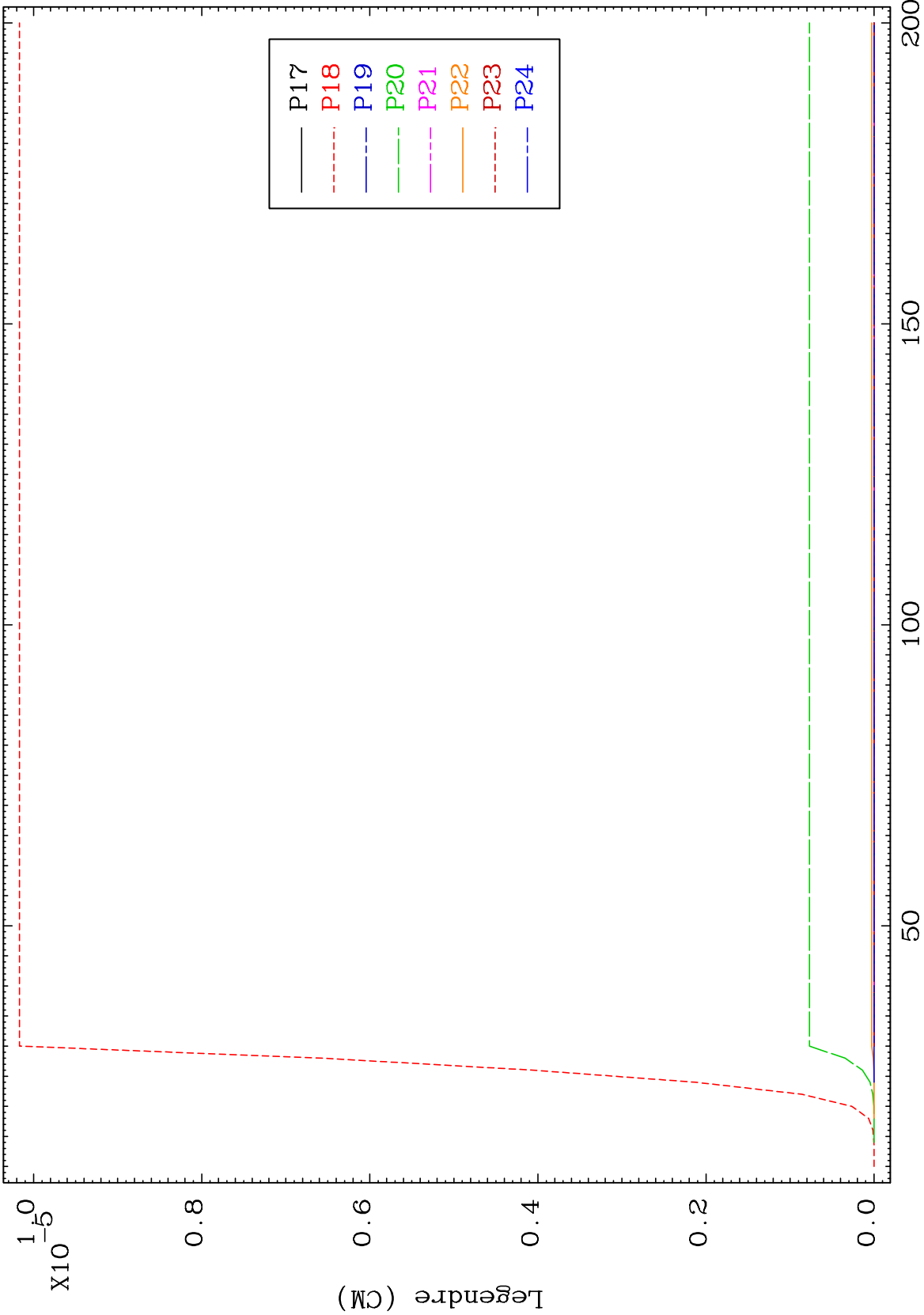
Incident Energy (MeV)

28

MAT 6140

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

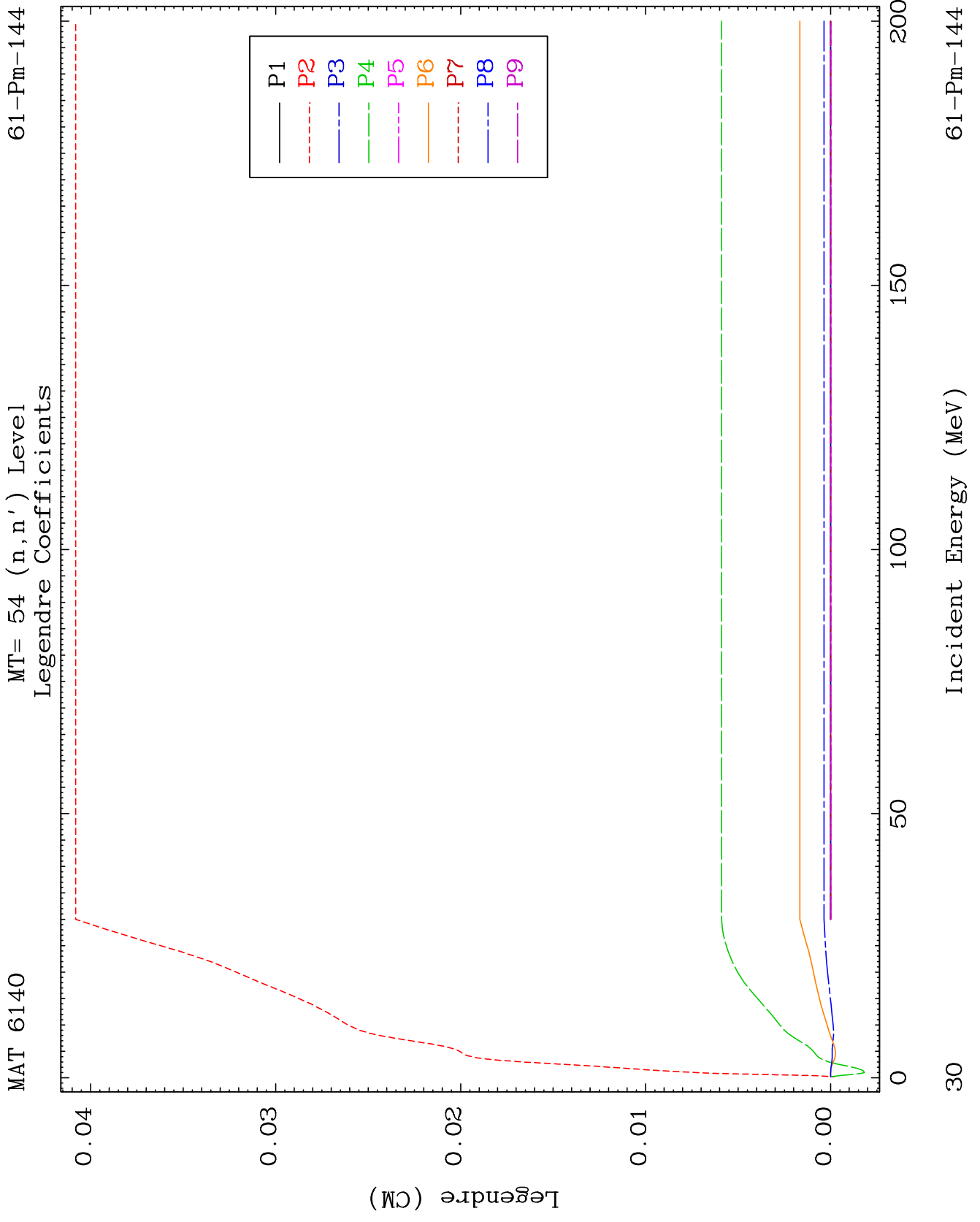
61-Pm-144



61-Pm-144

Incident Energy (MeV)

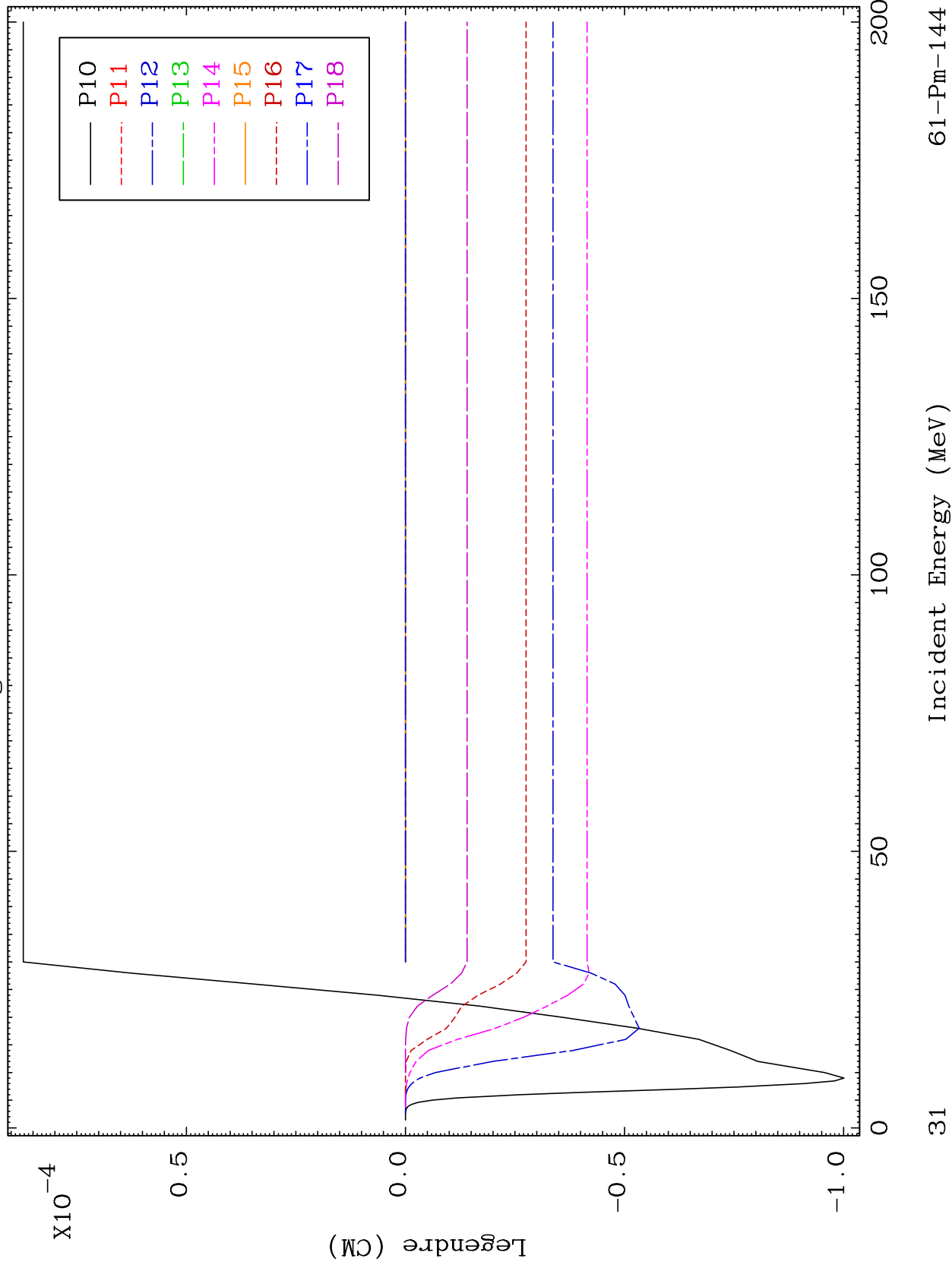
29



MAT 6140

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

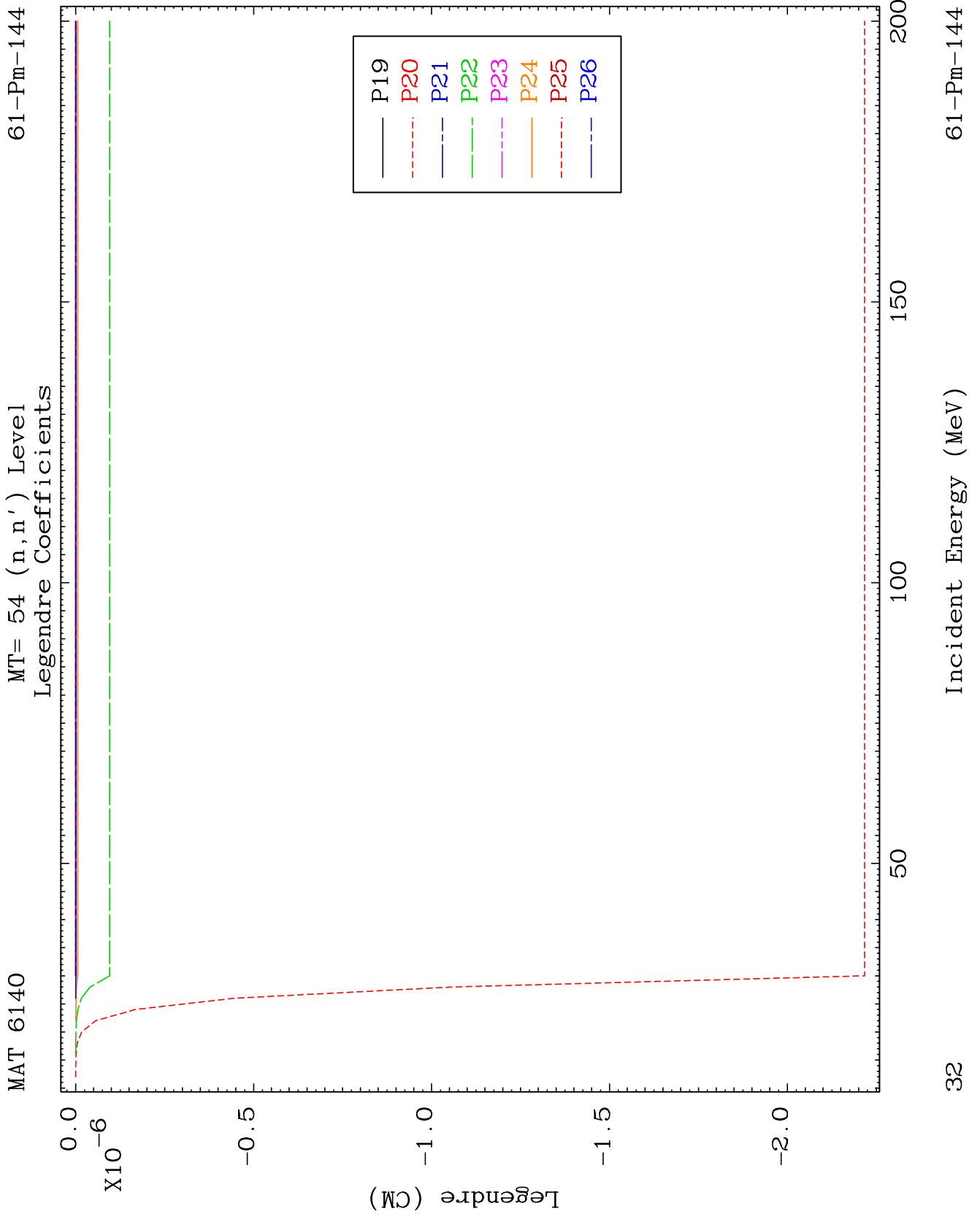
61-Pm-144



31

Incident Energy (MeV)

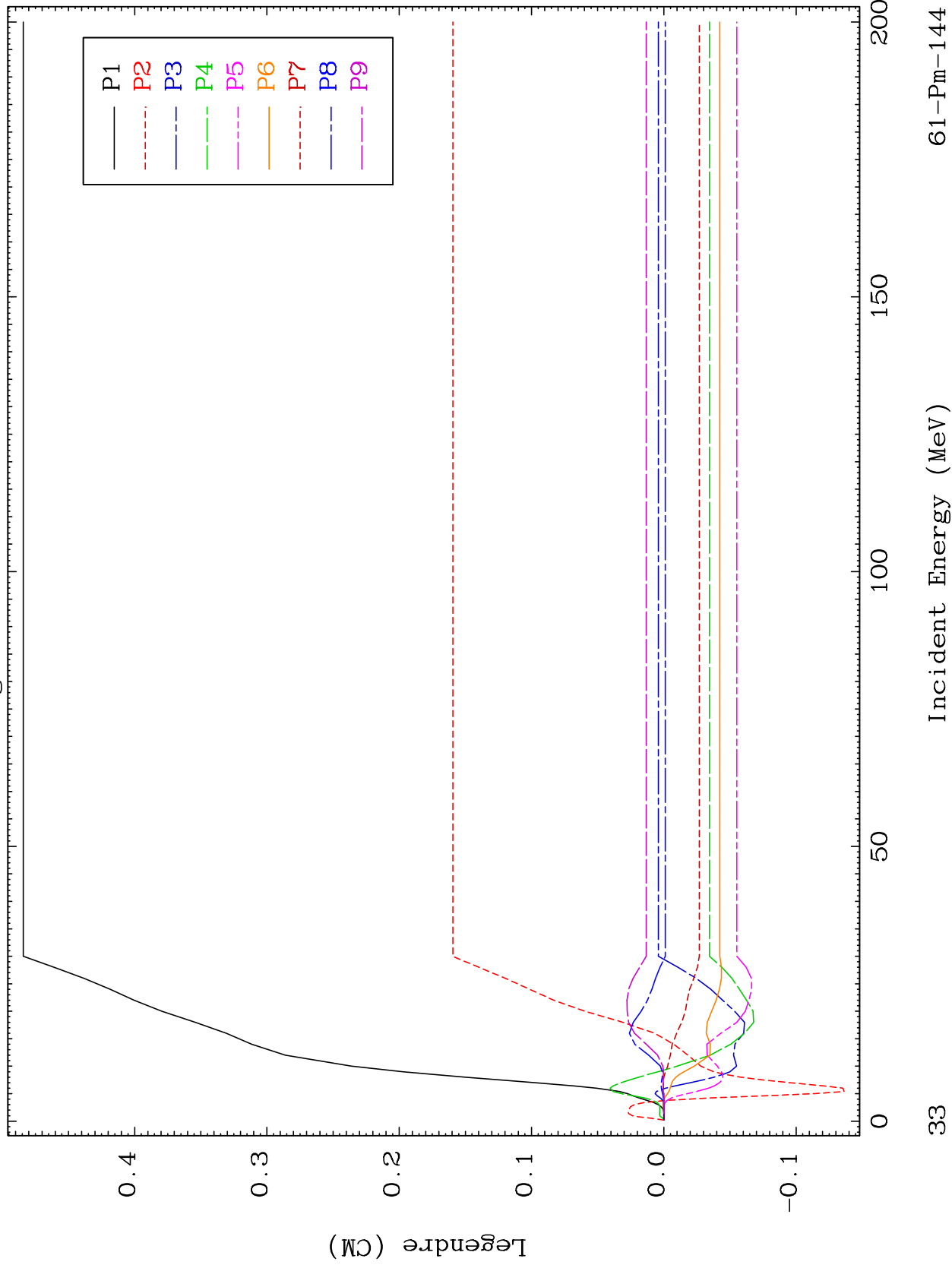
61-Pm-144



MAT 6140

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

61-Pm-144



61-Pm-144

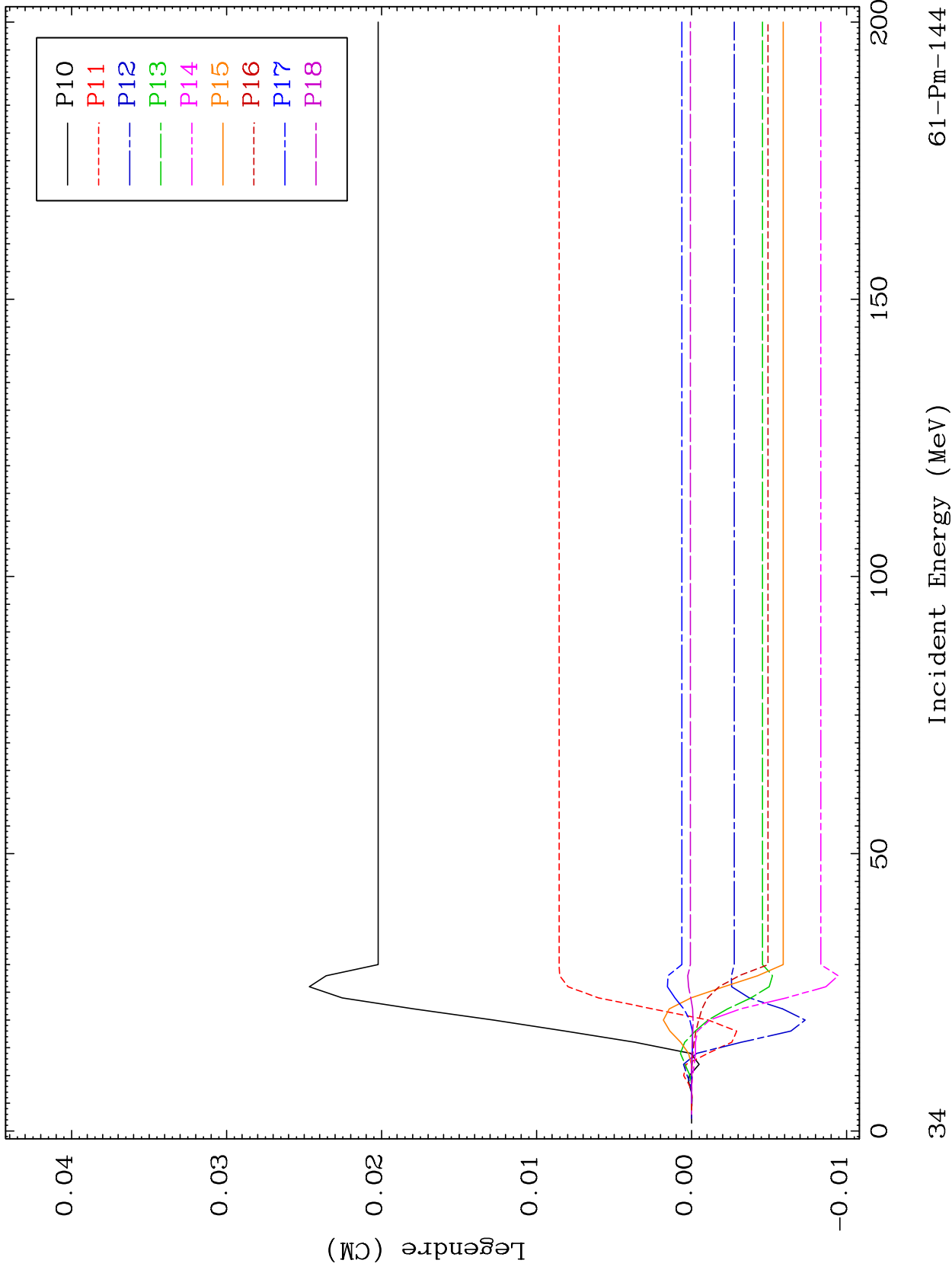
Incident Energy (MeV)

33

MAT 6140

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

61-Pm-144



34

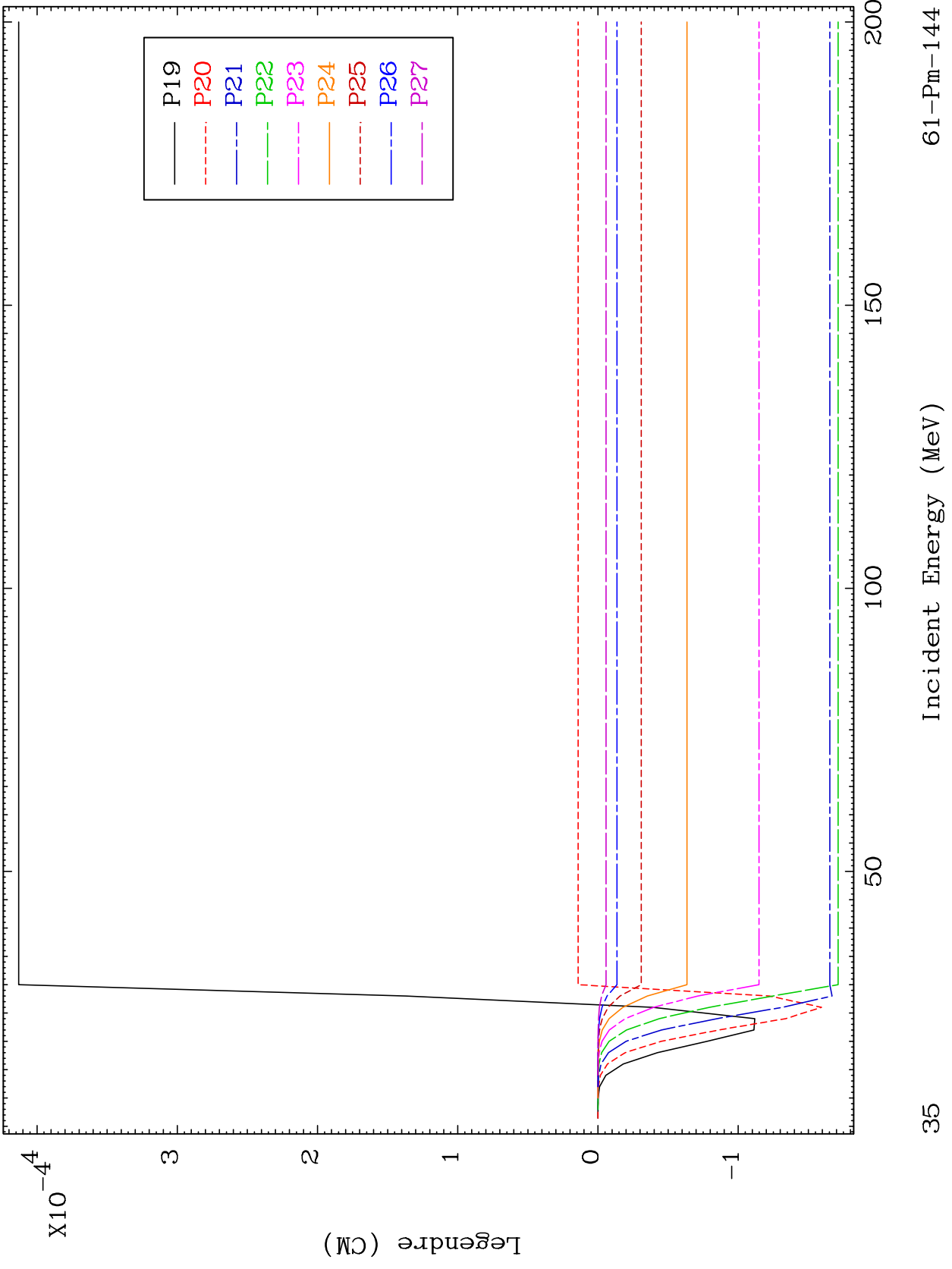
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

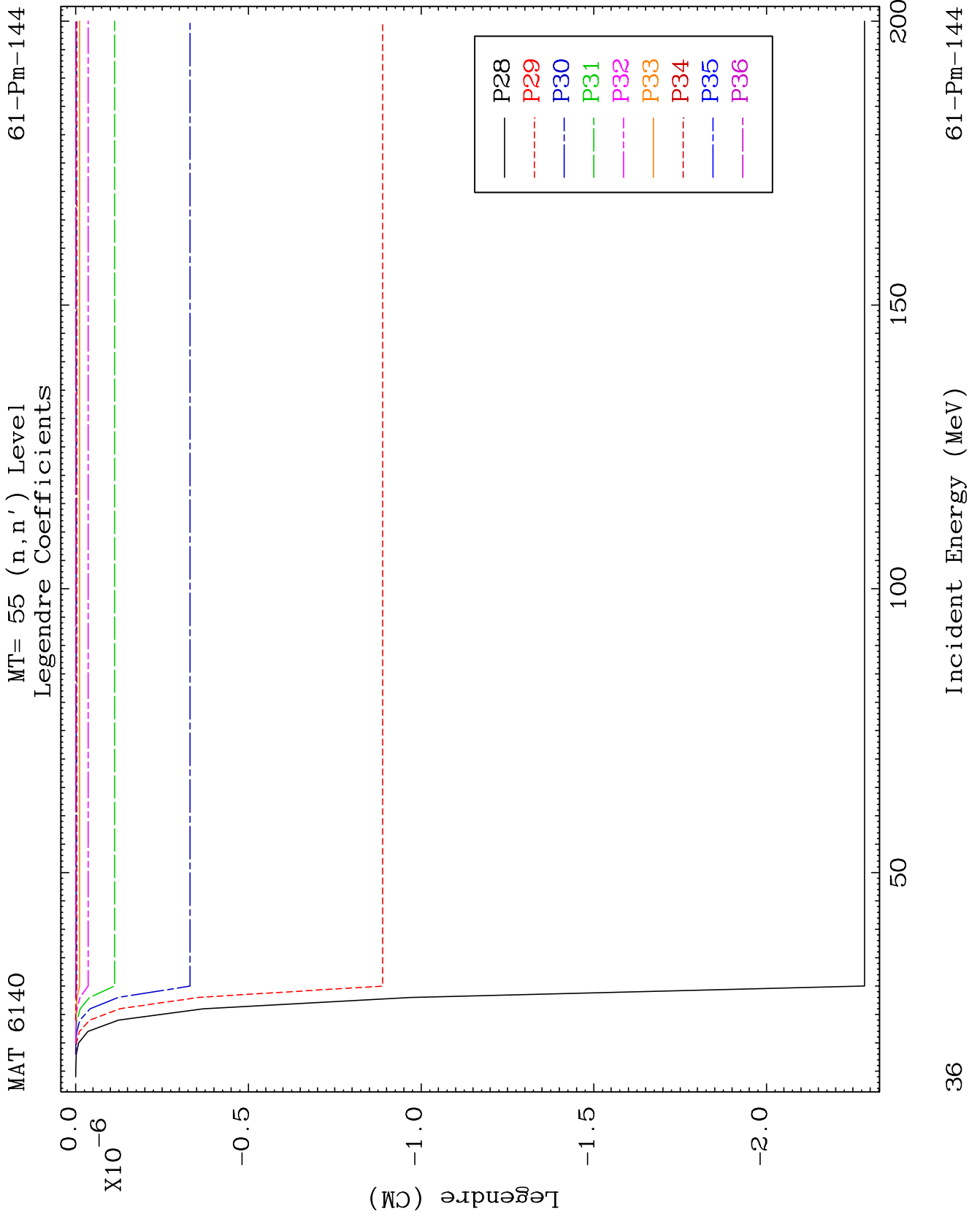
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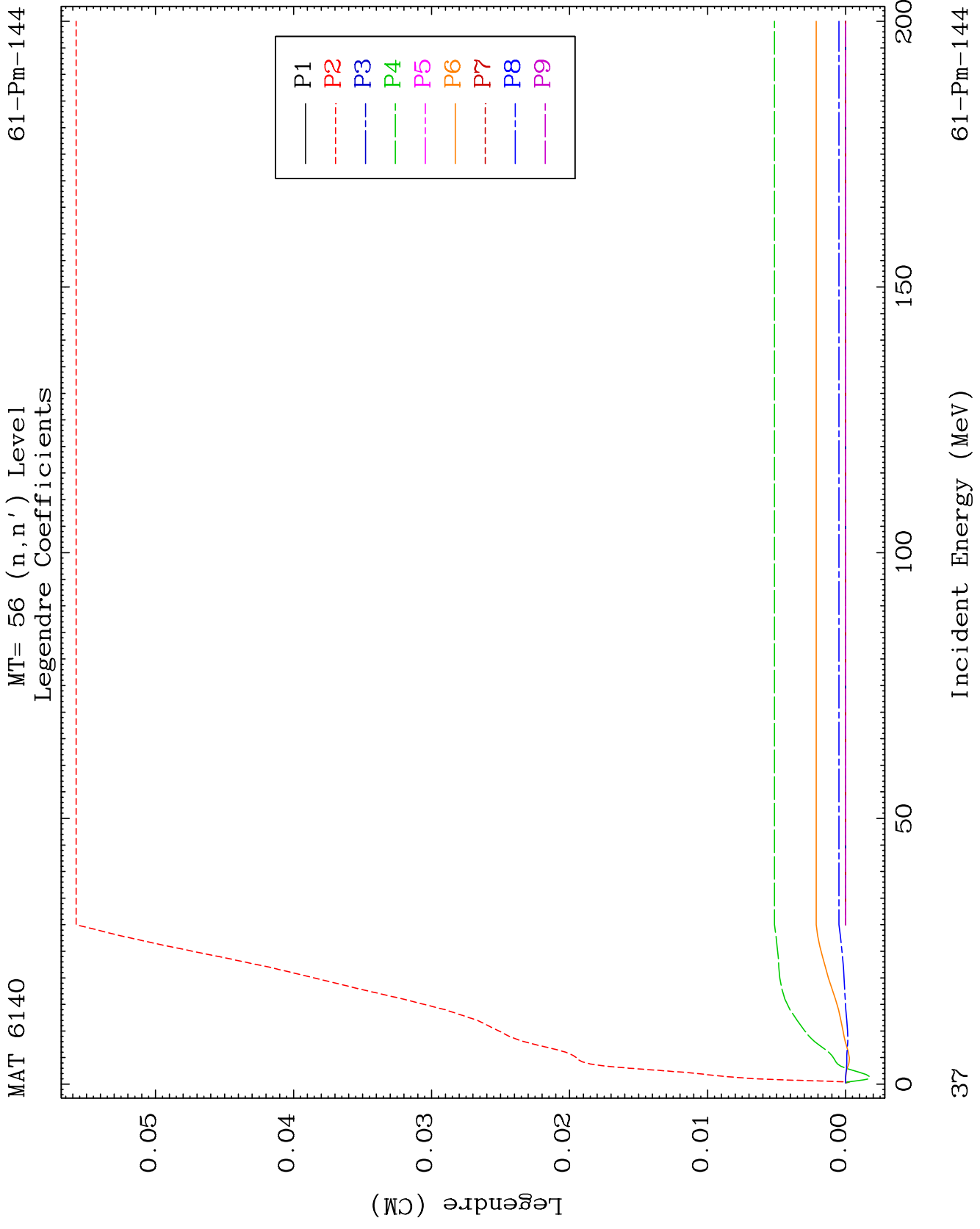


35

Incident Energy (MeV)

61-Pm-144

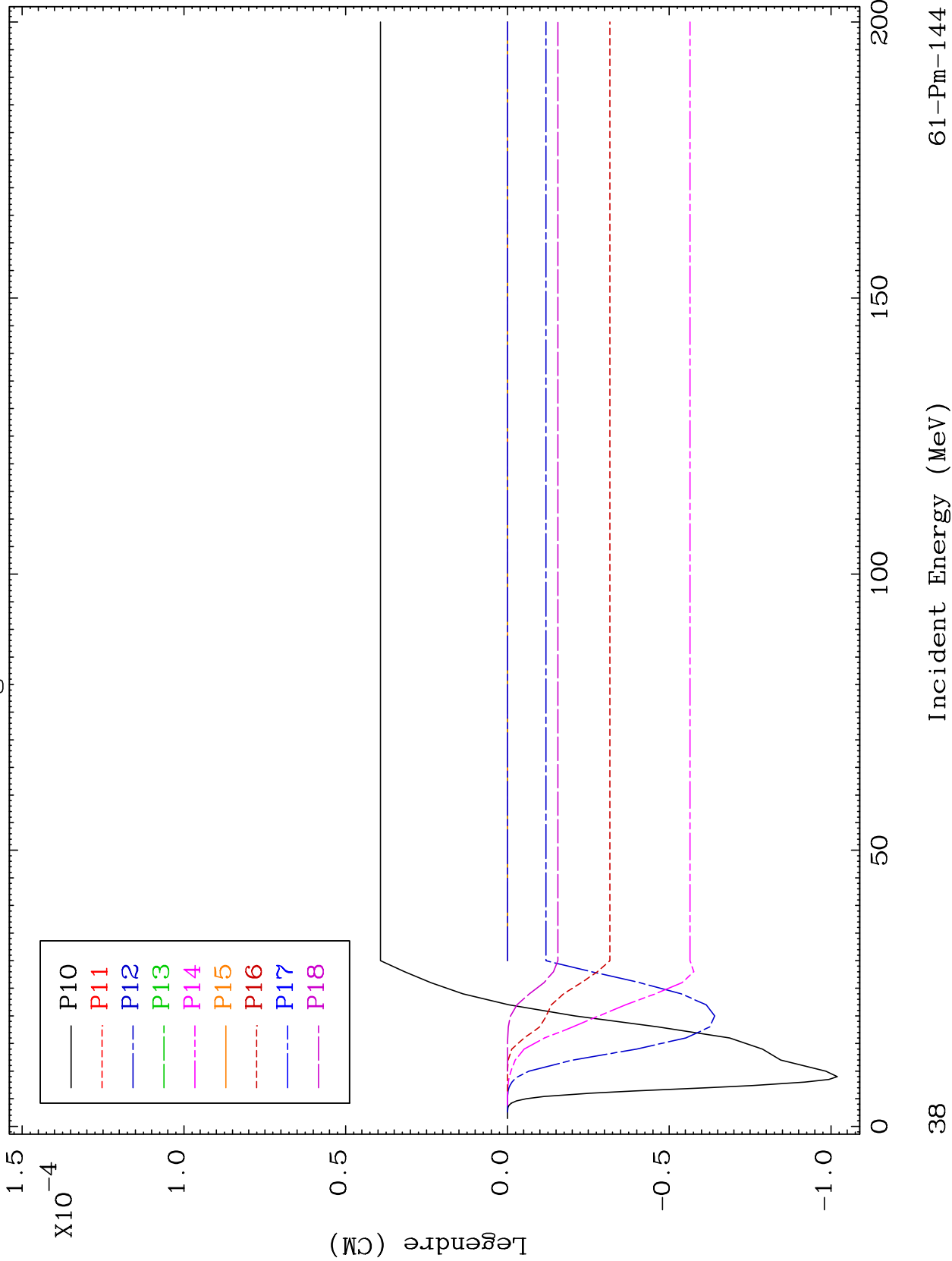




MAT 6140

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

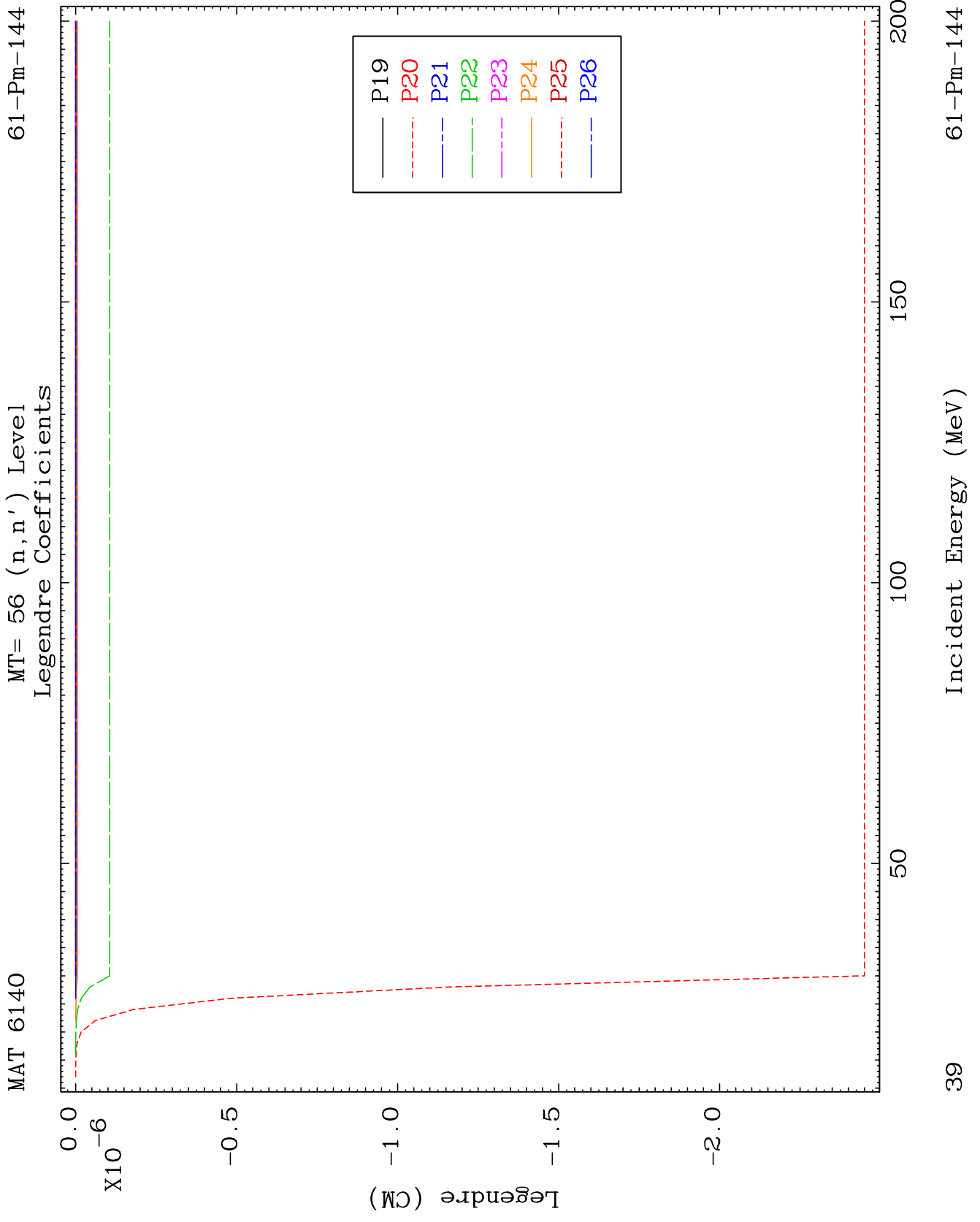
61-Pm-144

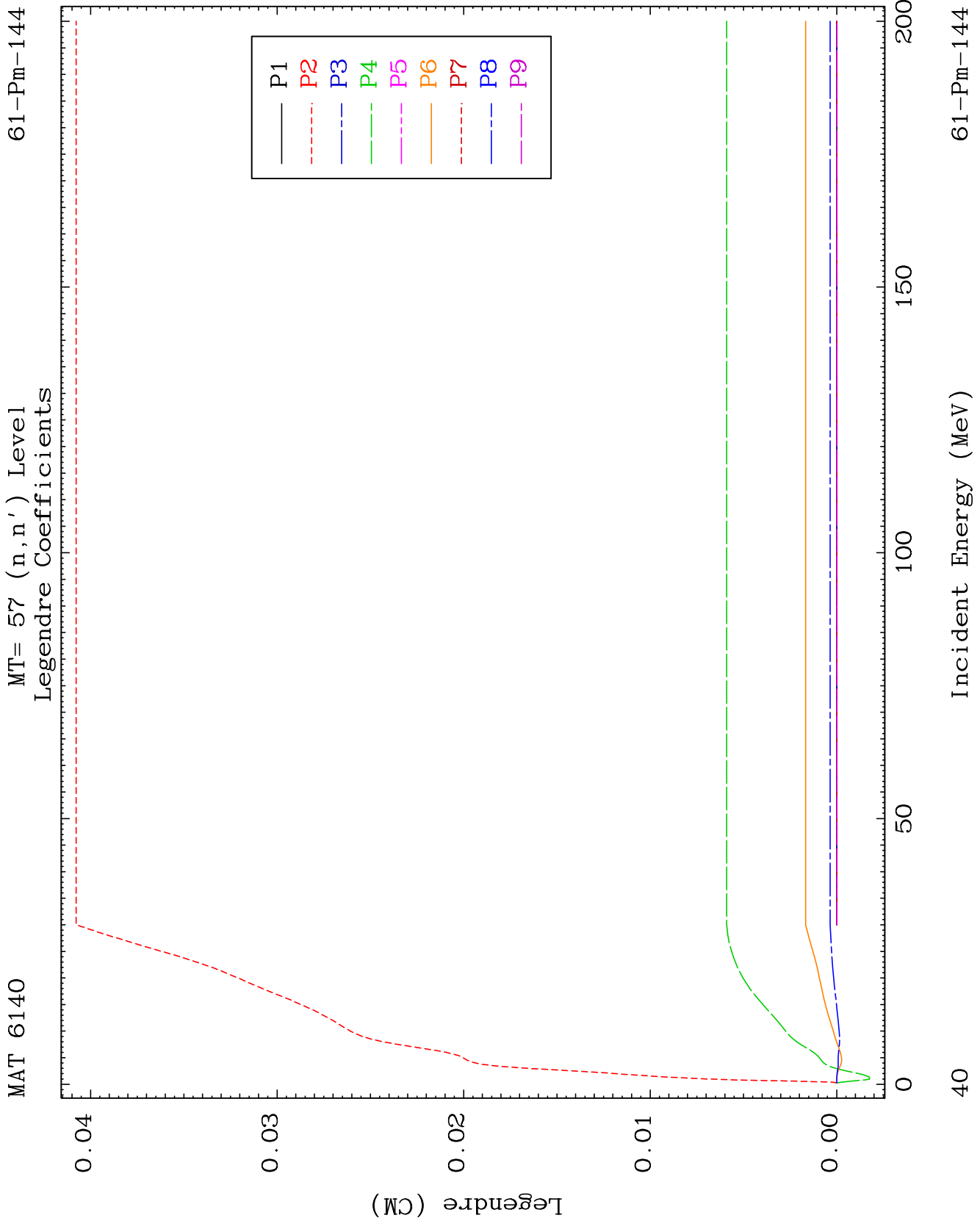


38

Incident Energy (MeV)

61-Pm-144

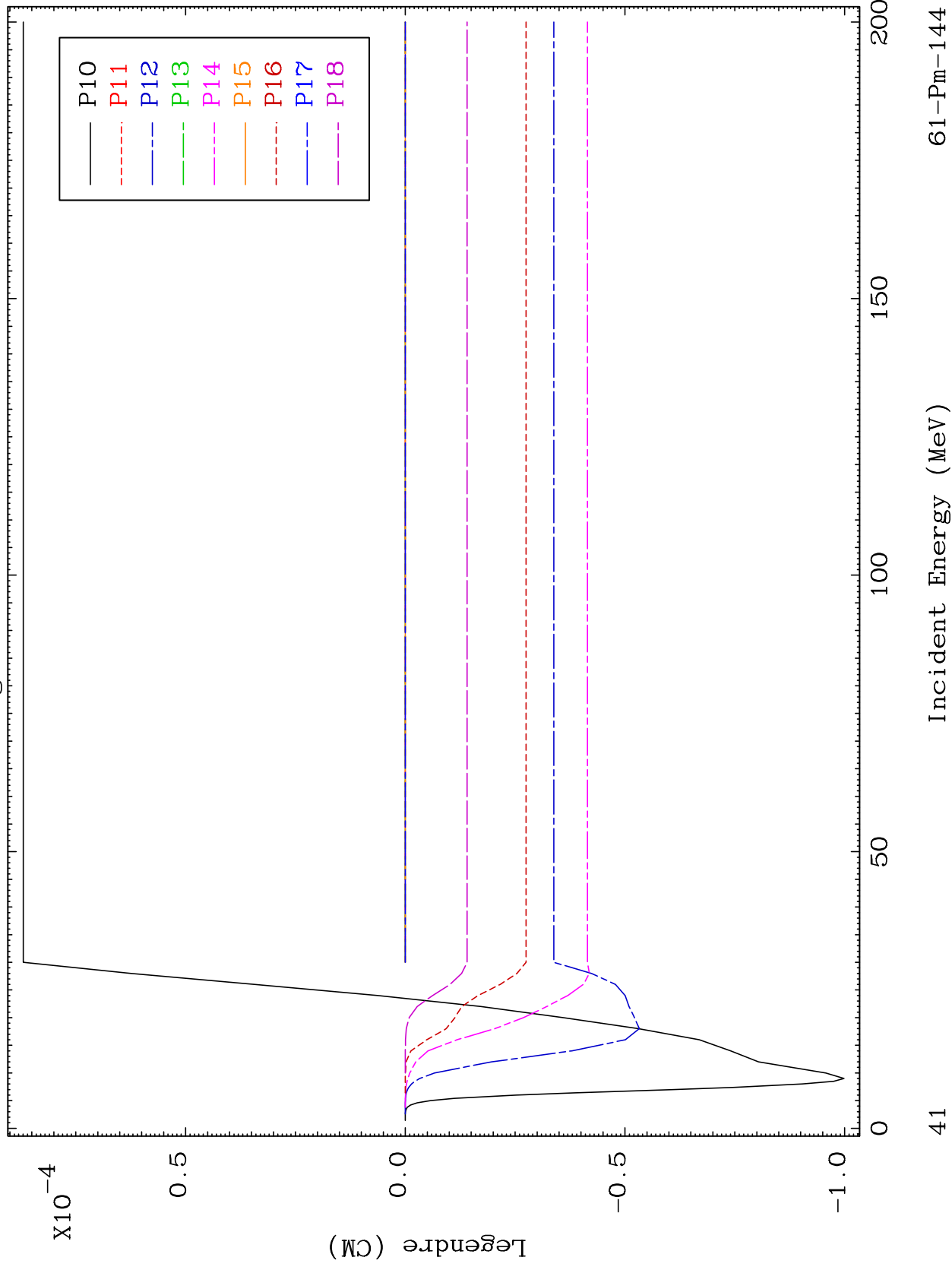




MAT 6140

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

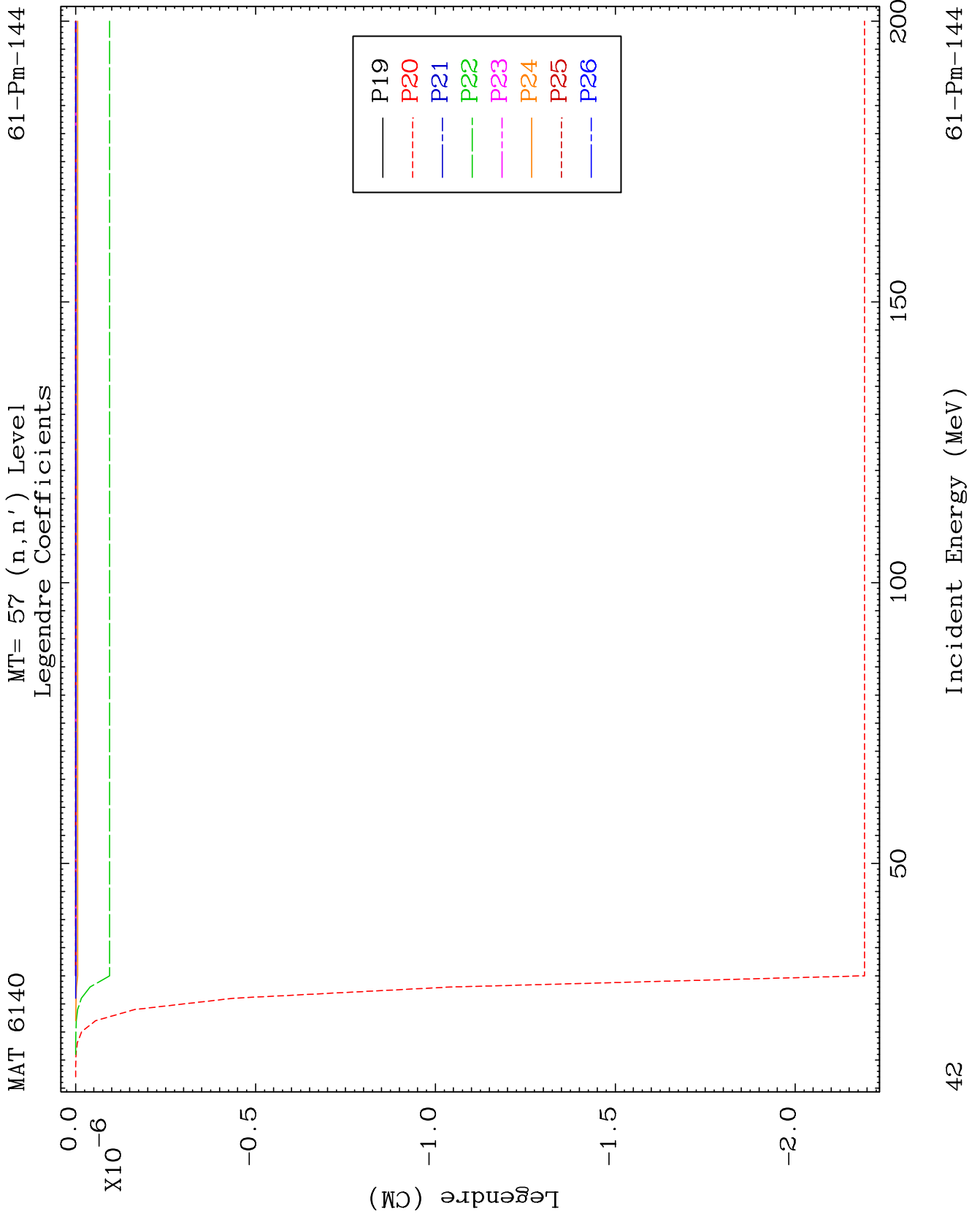
61-Pm-144



61-Pm-144

Incident Energy (MeV)

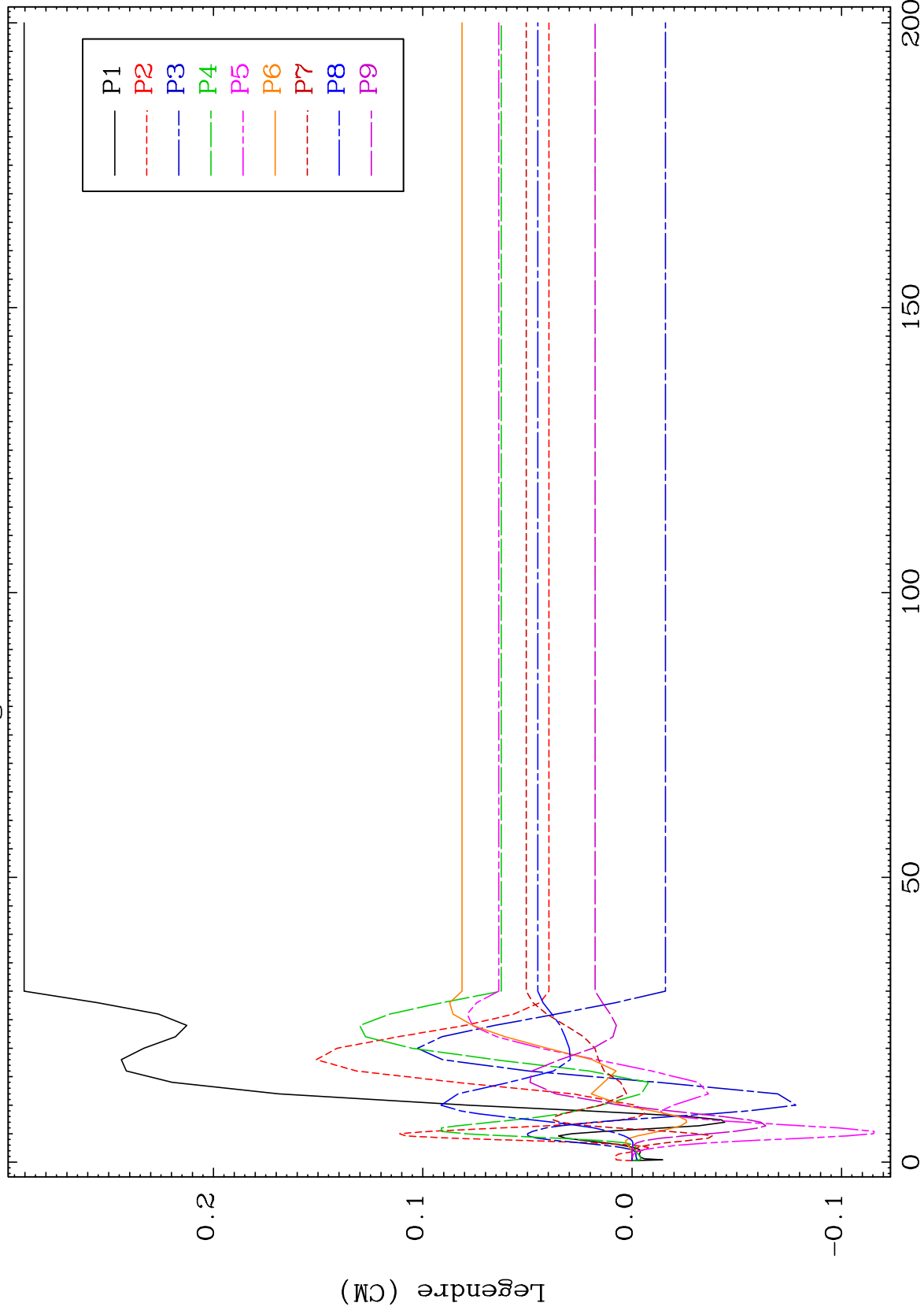
41



MAT 6140

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

61-Pm-144



43

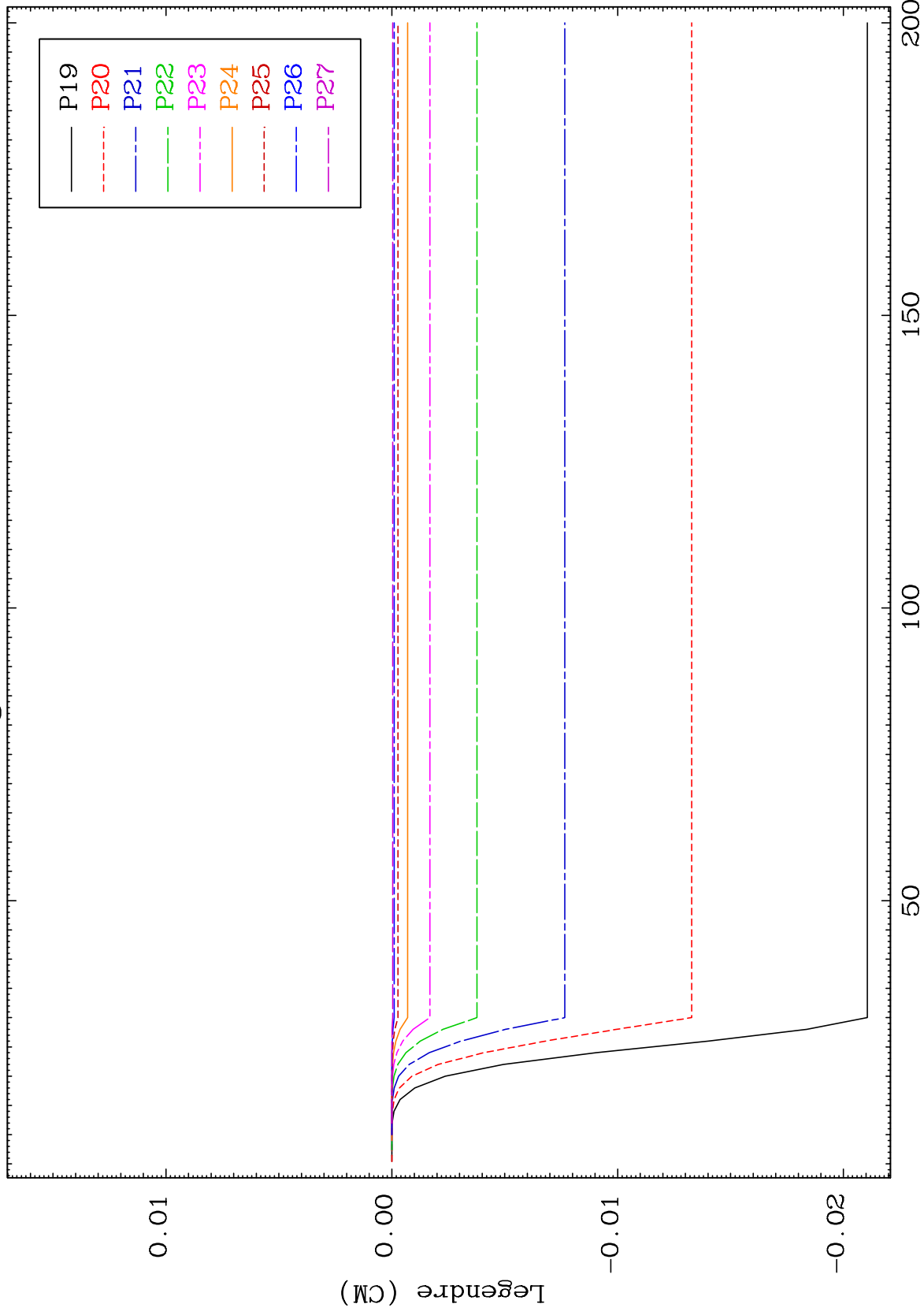
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

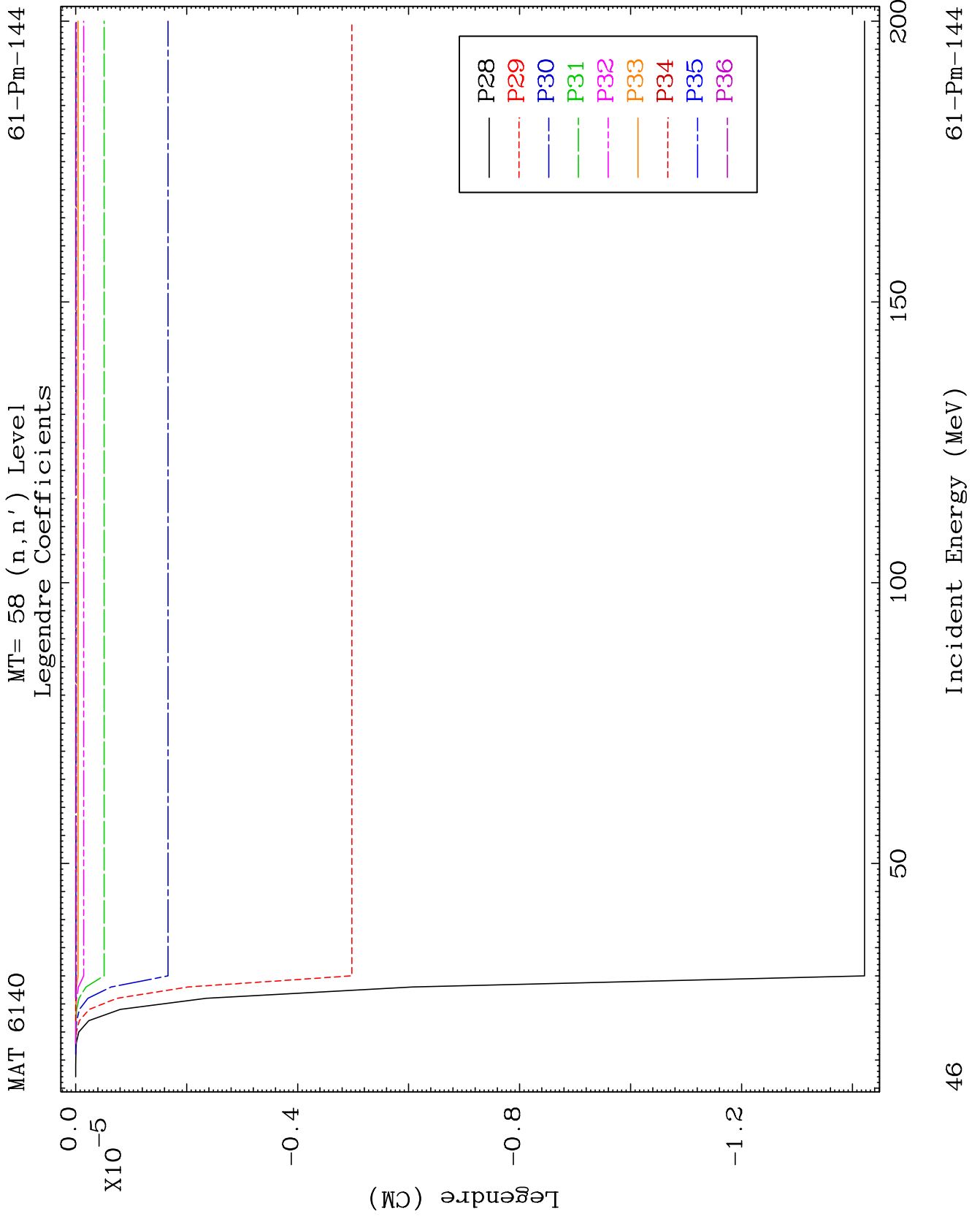
61-Pm-144



45

Incident Energy (MeV)

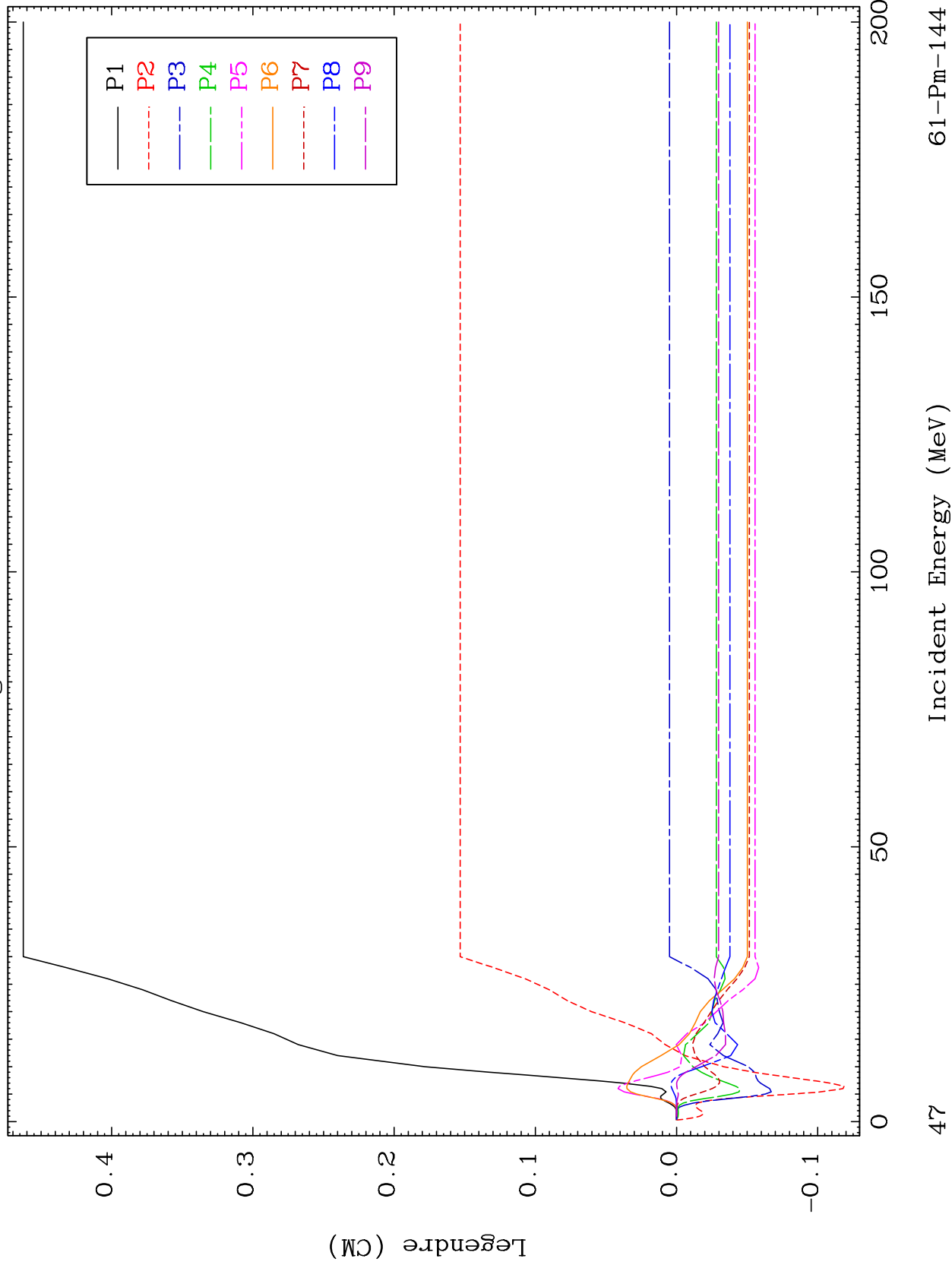
61-Pm-144



MAT 6140

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

61-Pm-144



61-Pm-144

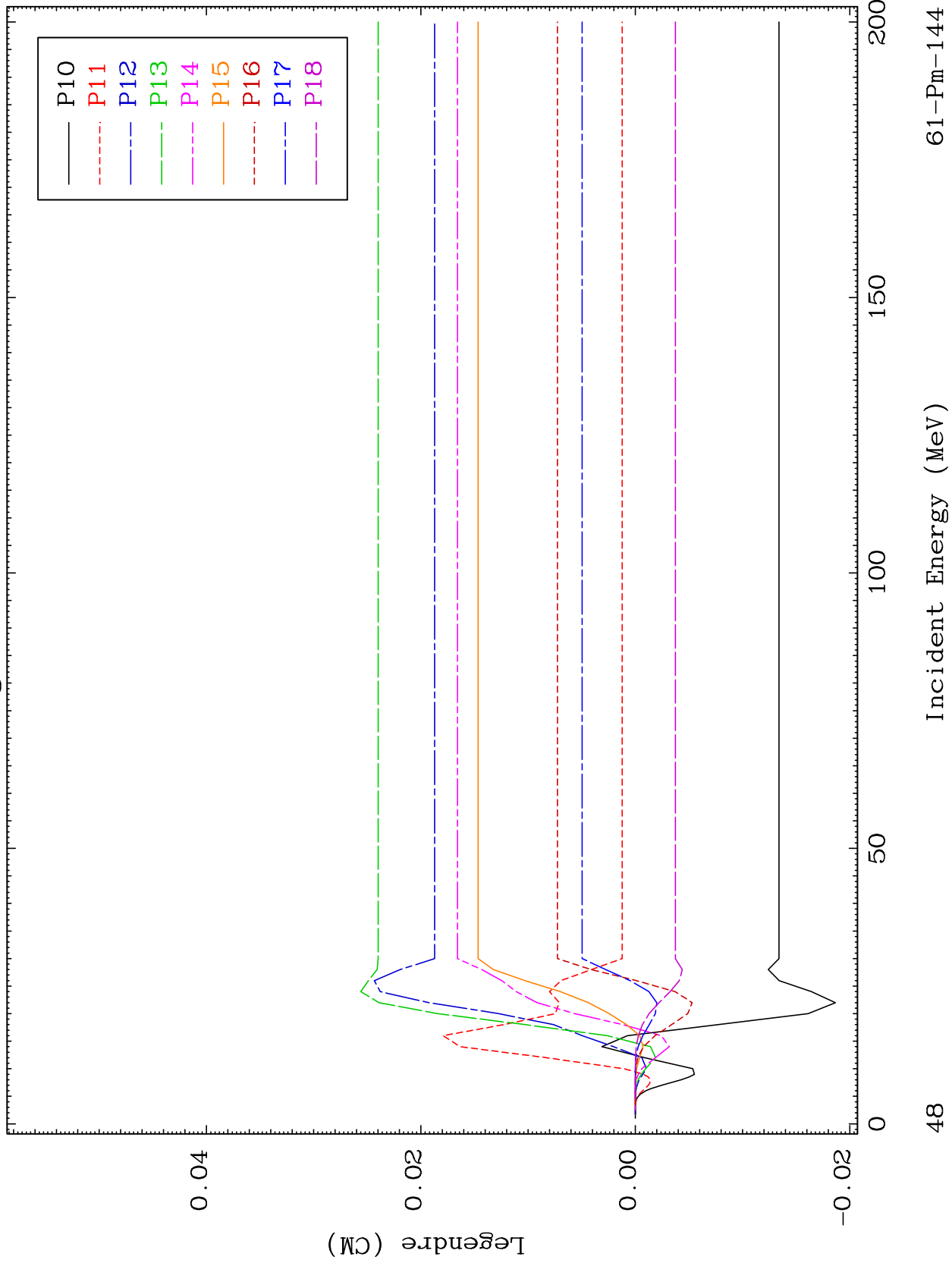
Incident Energy (MeV)

47

MAT 6140

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

61-Pm-144



61-Pm-144

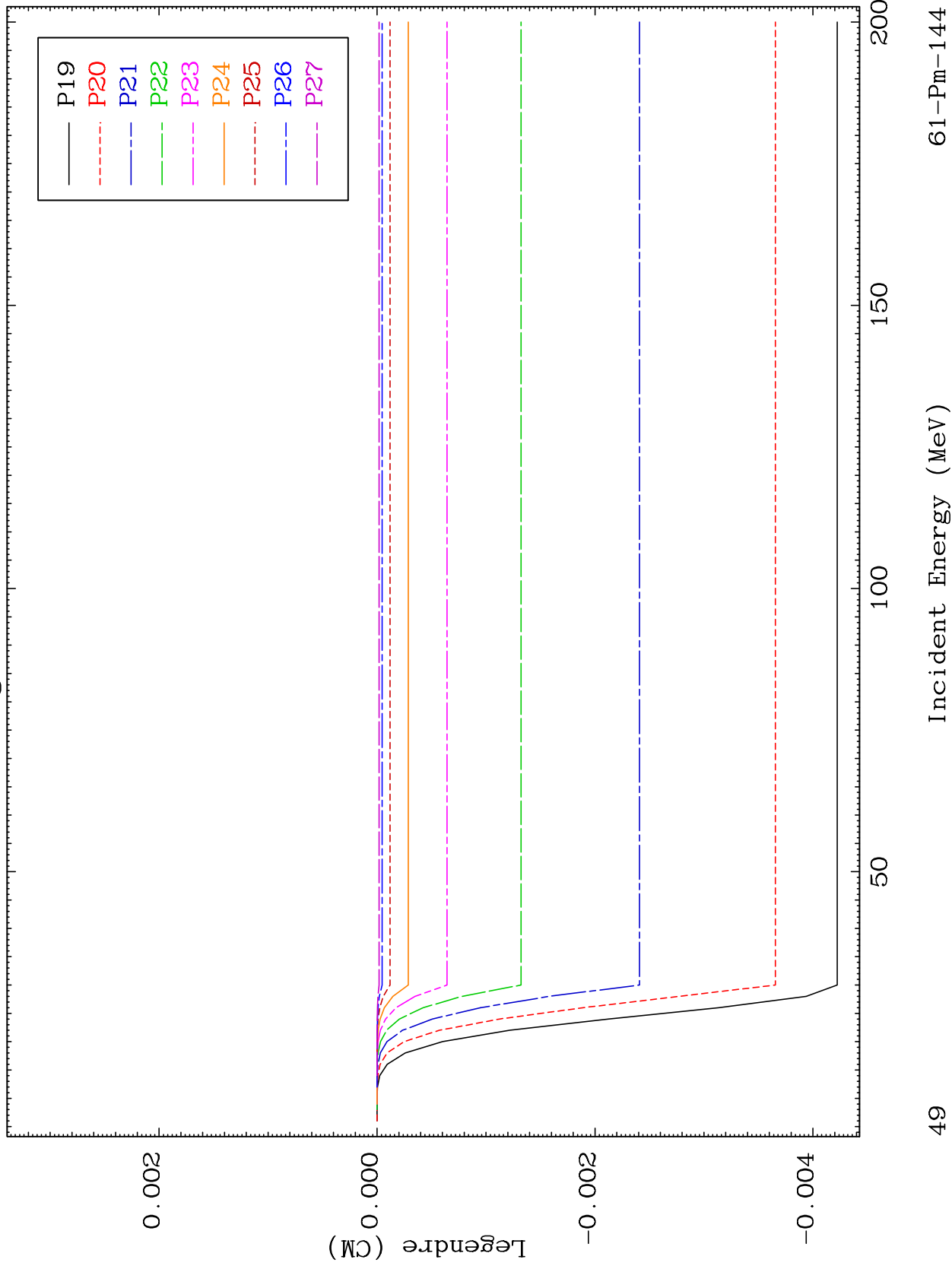
Incident Energy (MeV)

48

MAT 6140

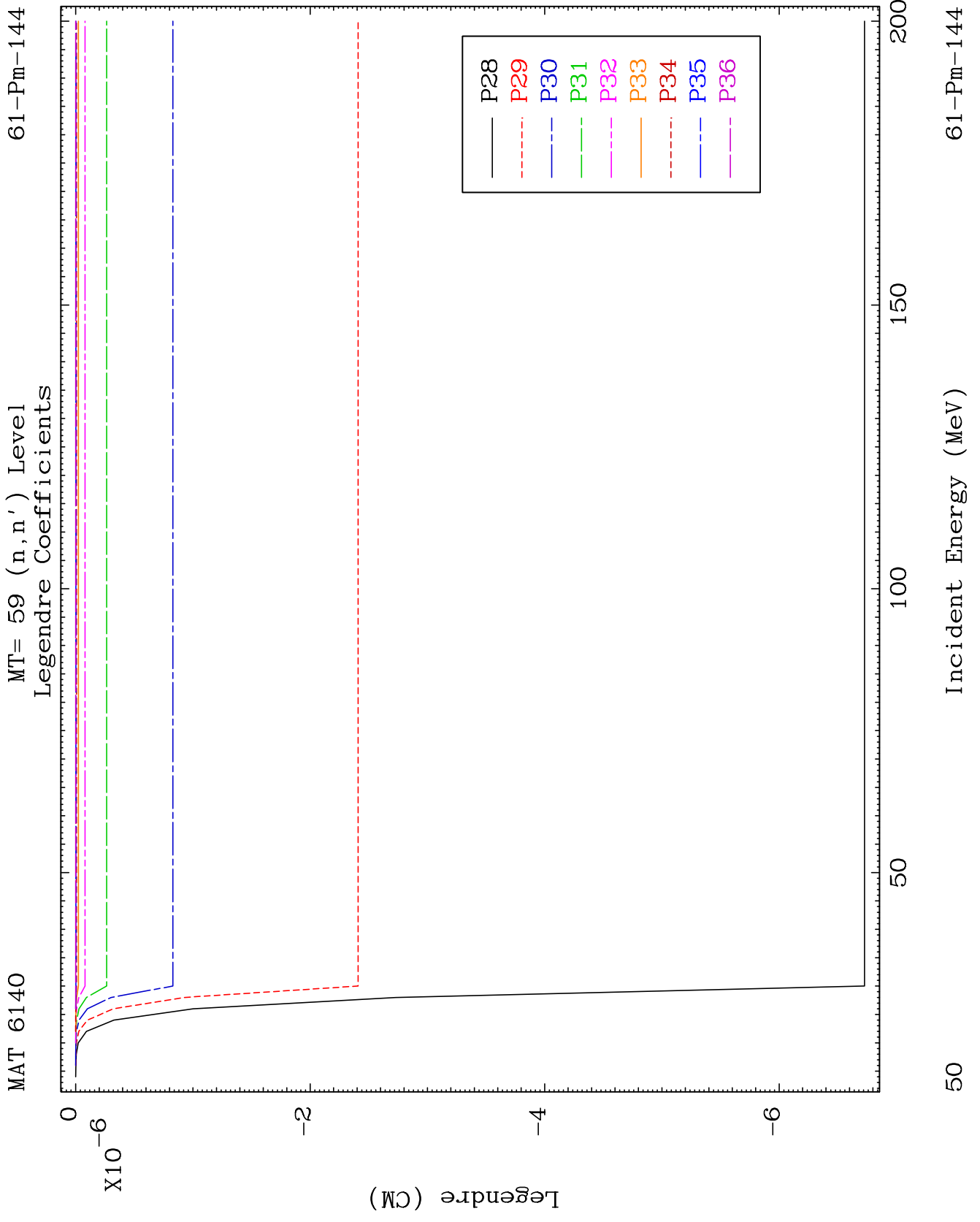
MT= 59 (n,n') Level
Legendre Coefficients

61-Pm-144



49

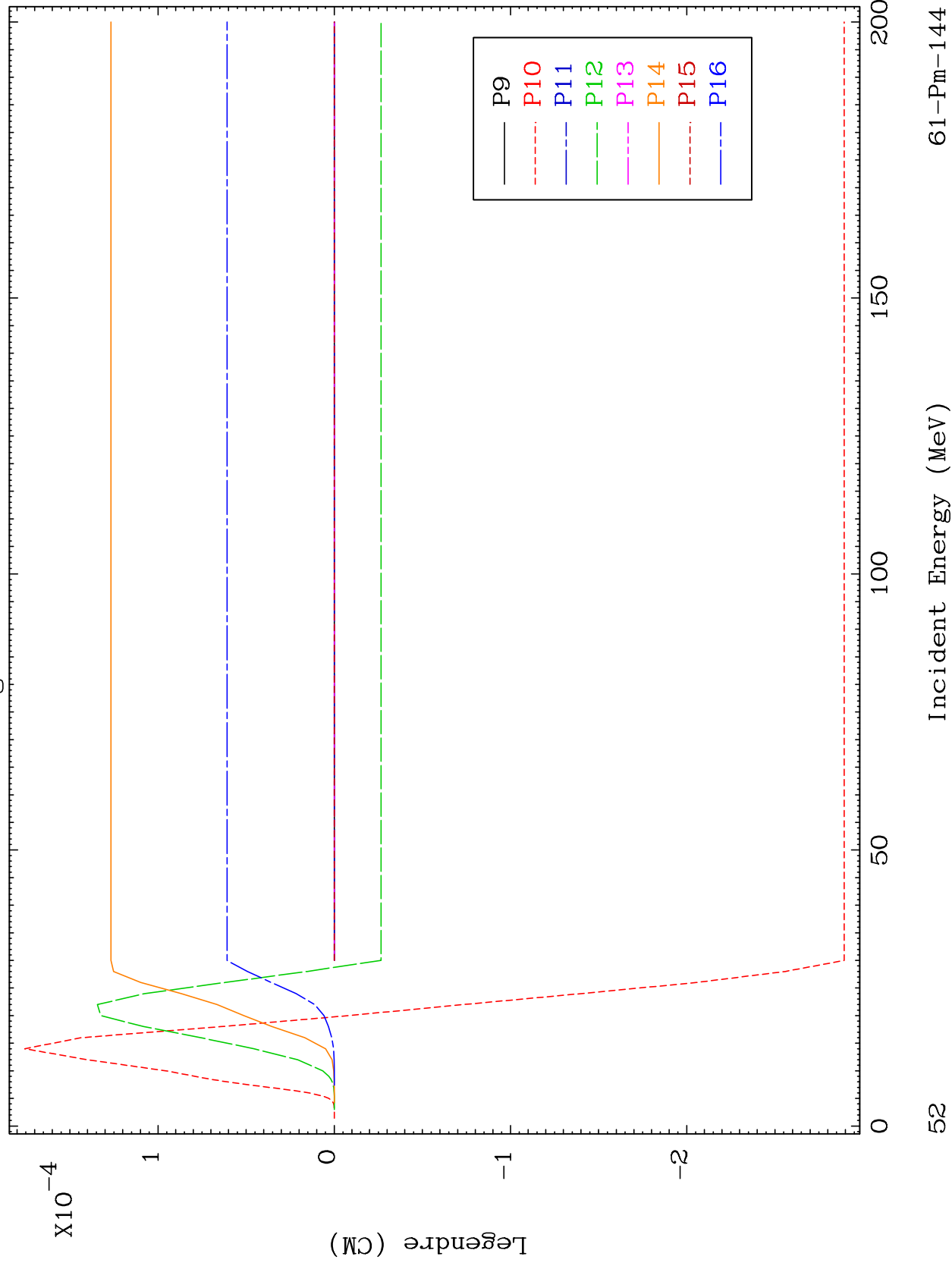
61-Pm-144



MAT 6140

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

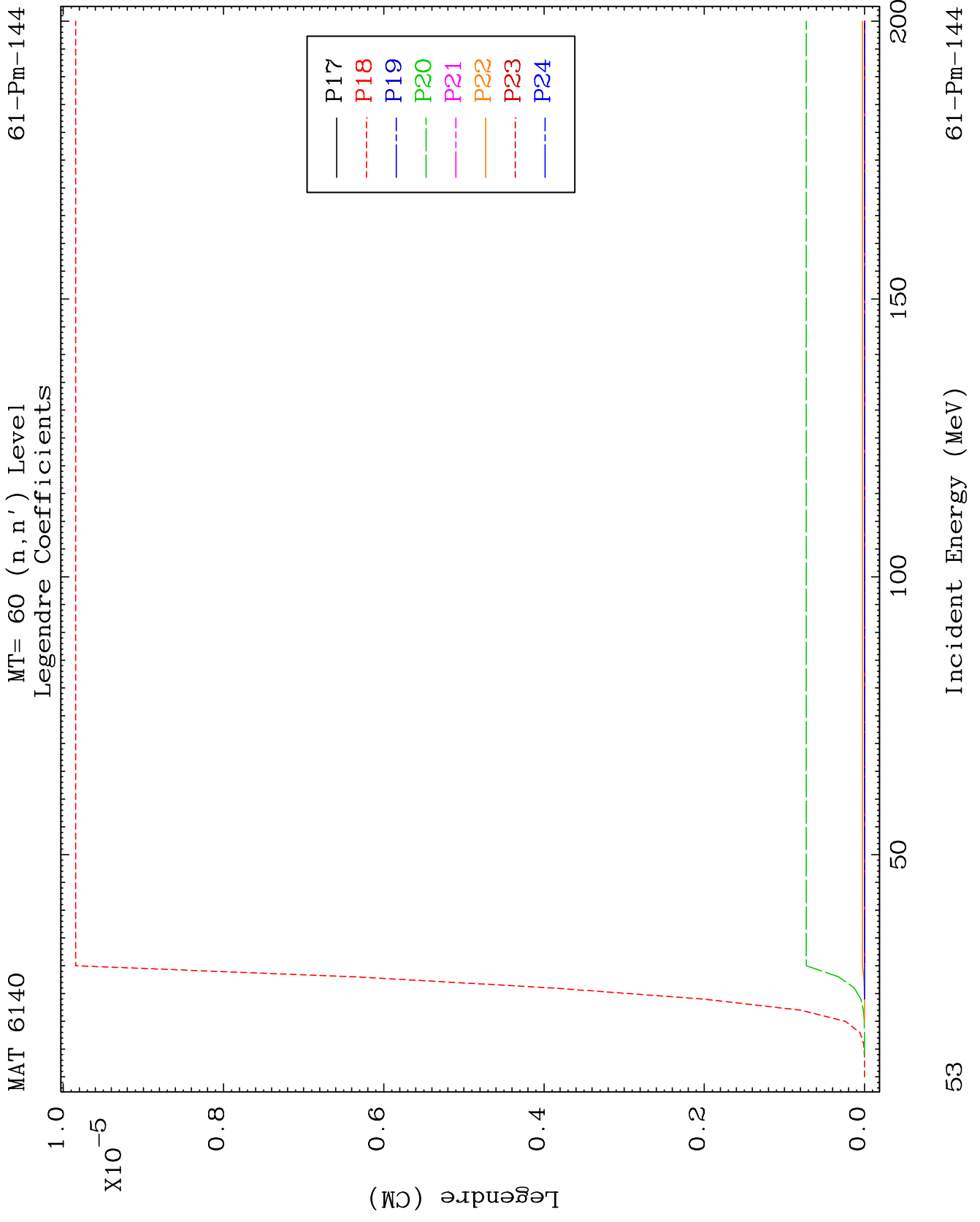
61-Pm-144



61-Pm-144

Incident Energy (MeV)

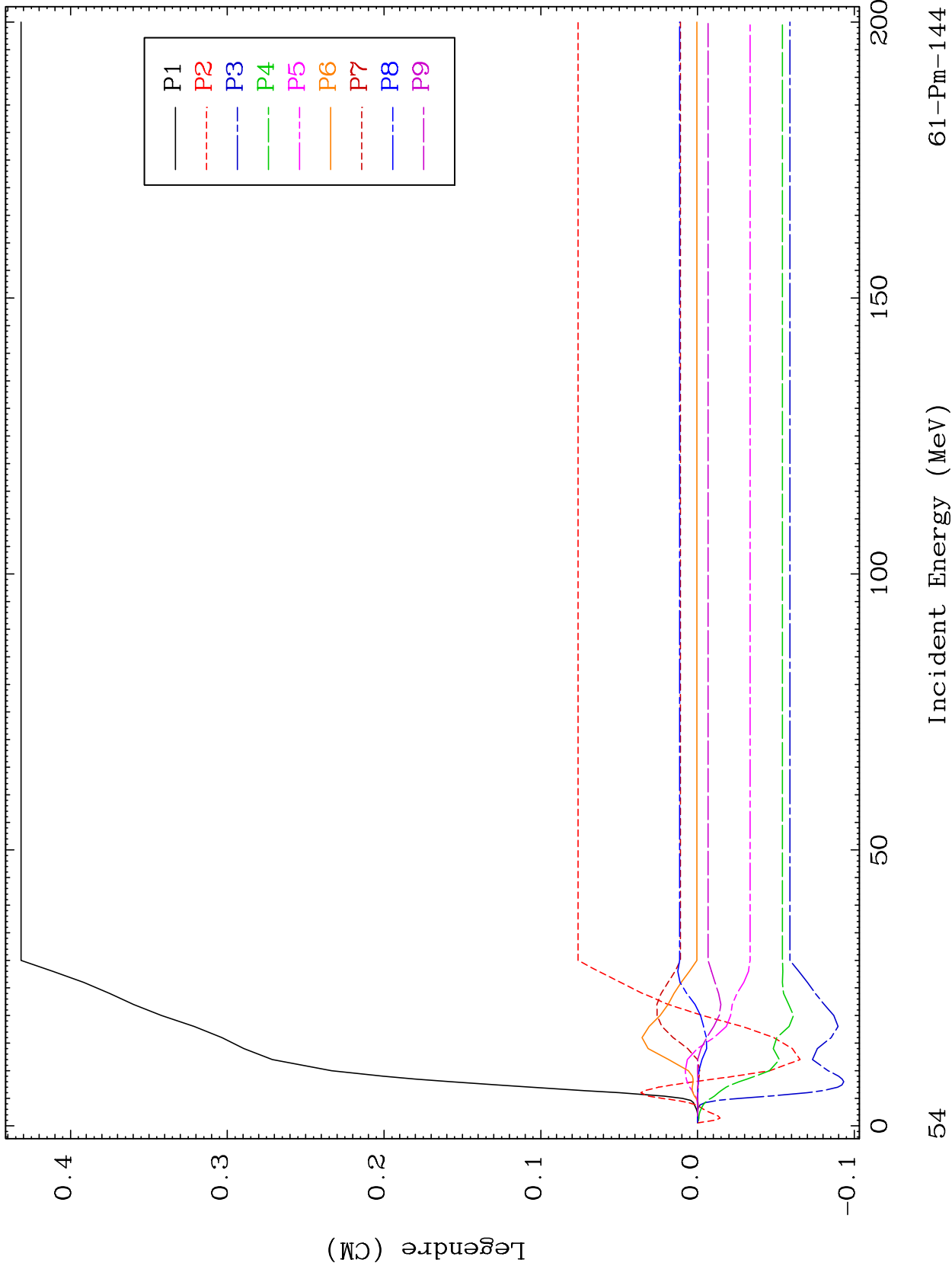
52



MAT 6140

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

61-Pm-144



61-Pm-144

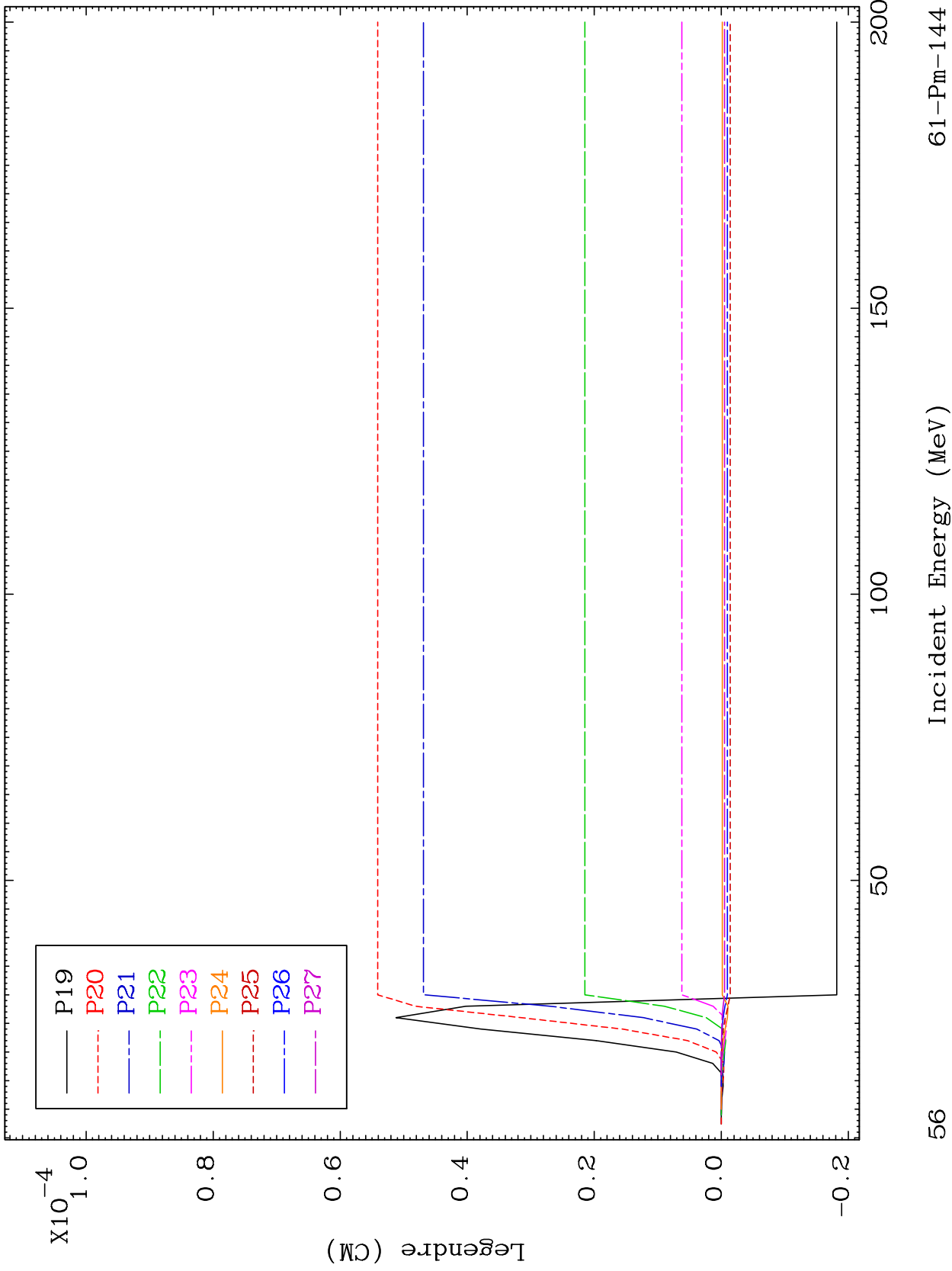
Incident Energy (MeV)

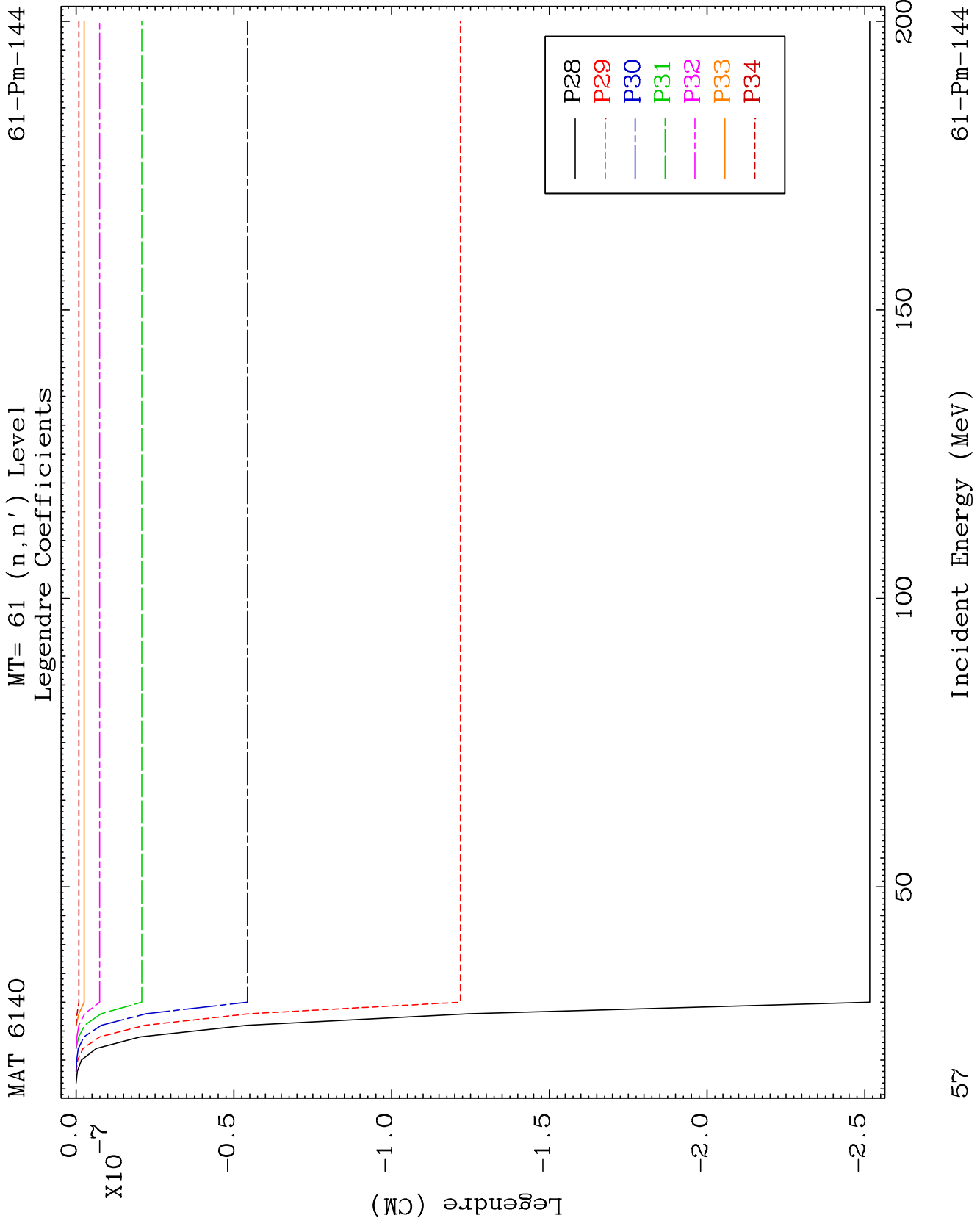
54

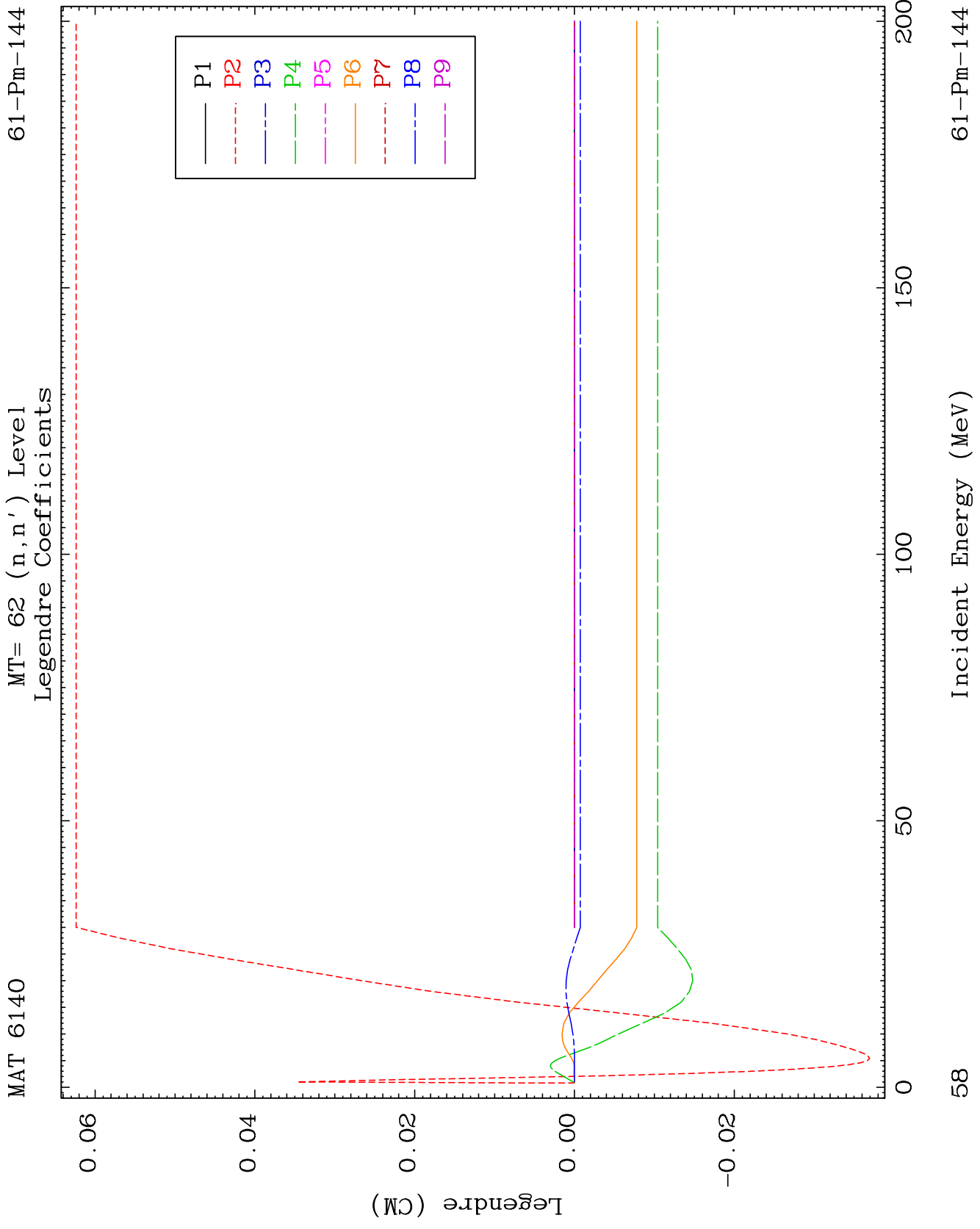
MAT 6140

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

61-Pm-144



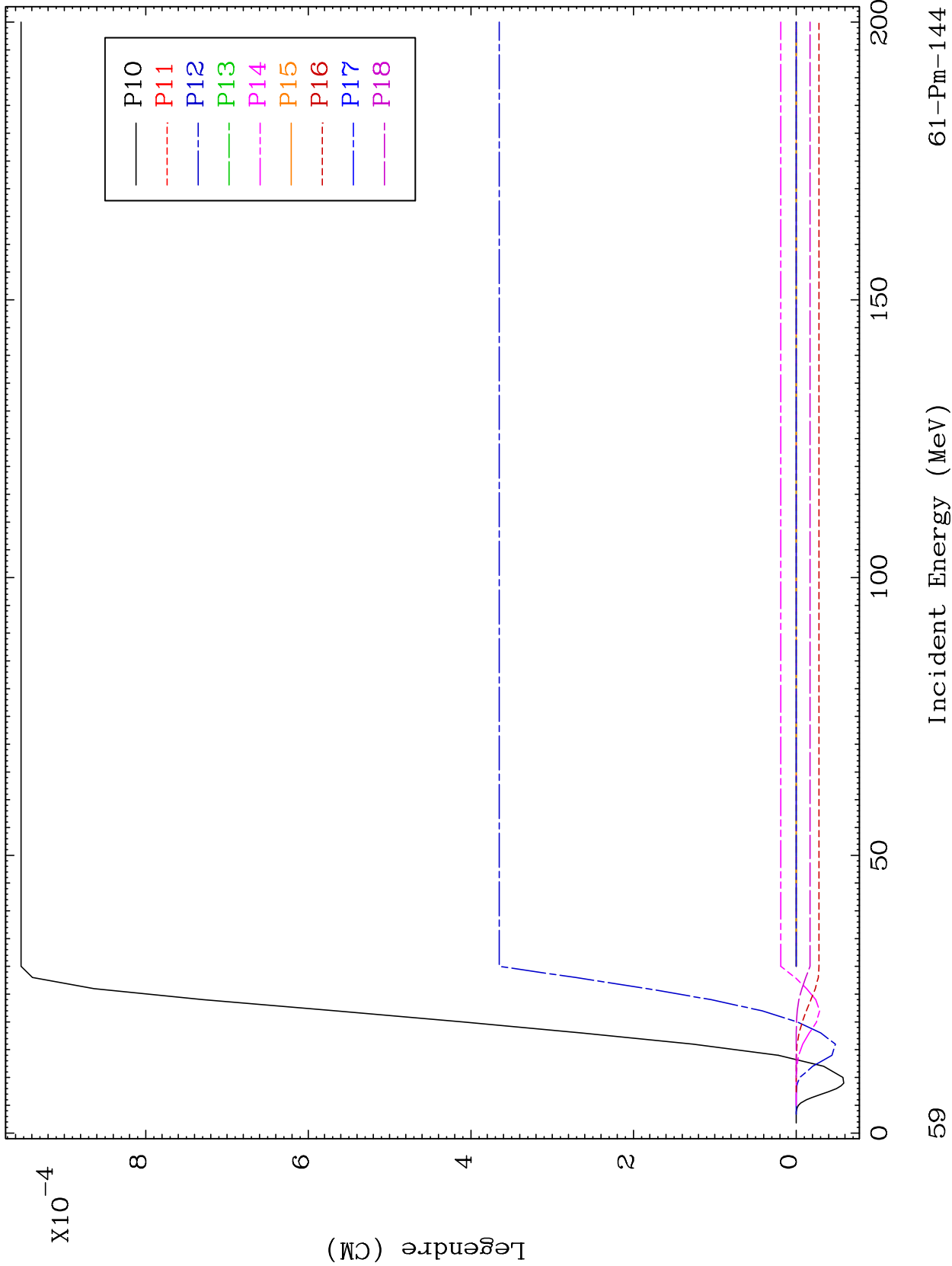




MAT 6140

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

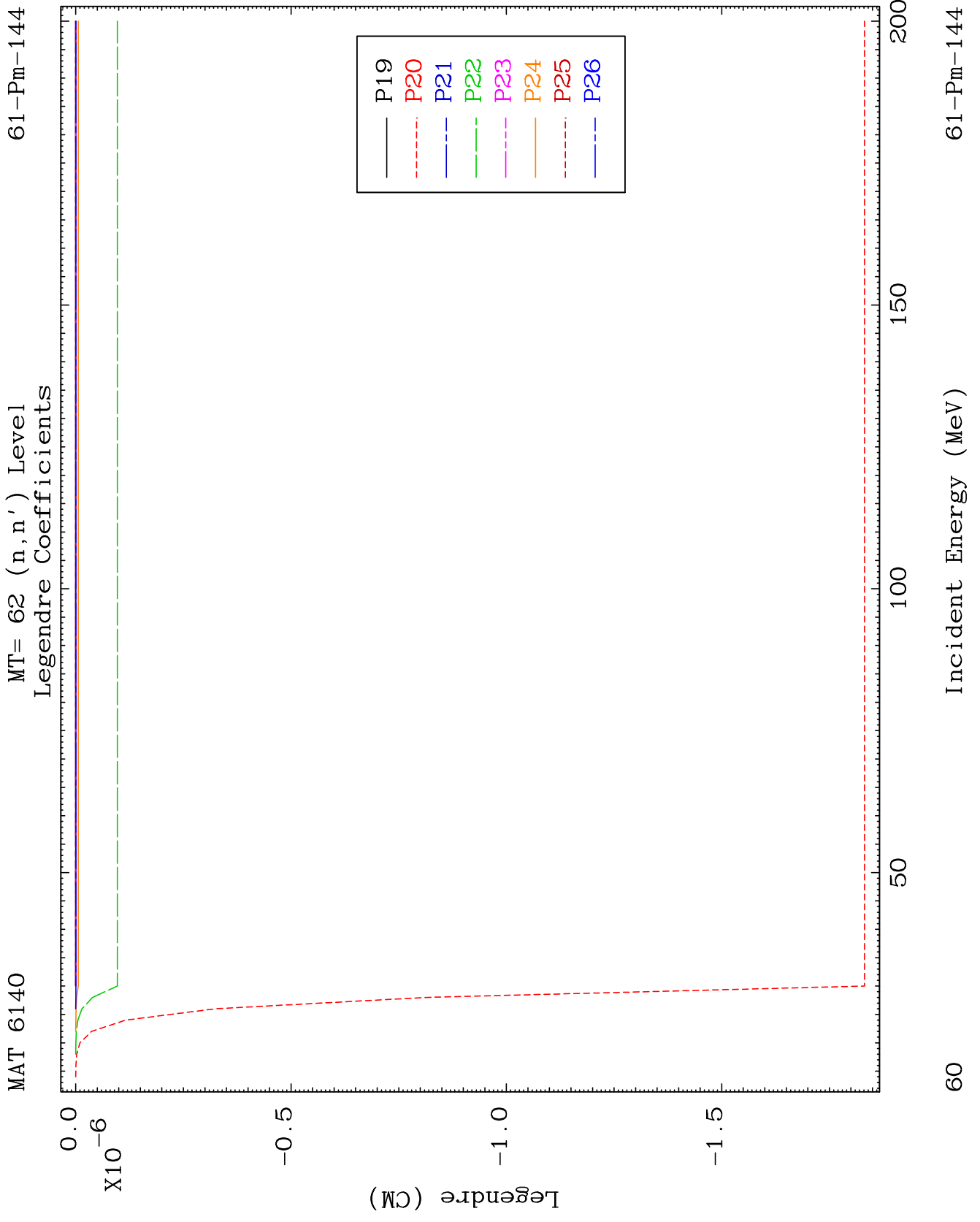
61-Pm-144



61-Pm-144

Incident Energy (MeV)

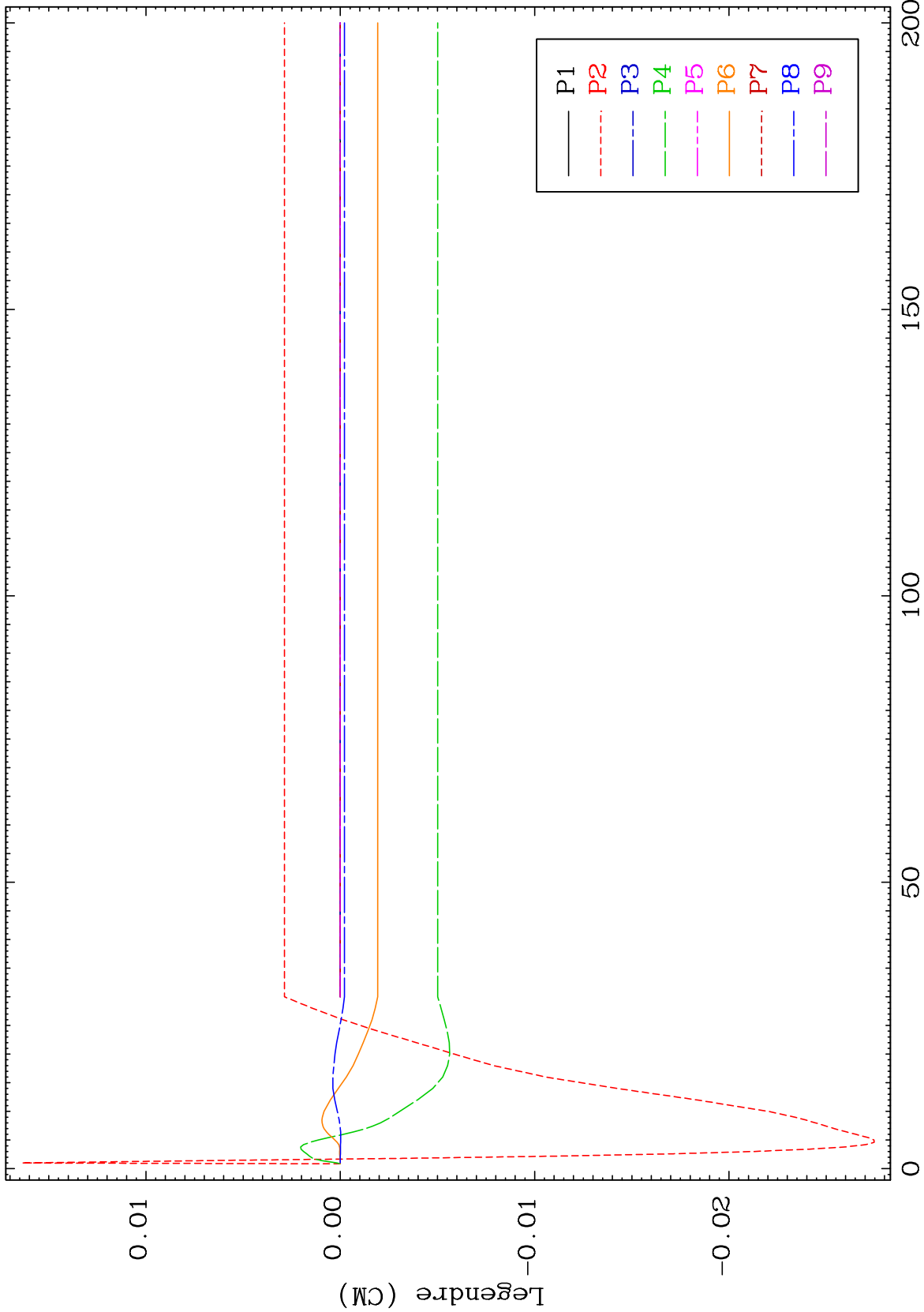
59



MAT 6140

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

61-Pm-144



61

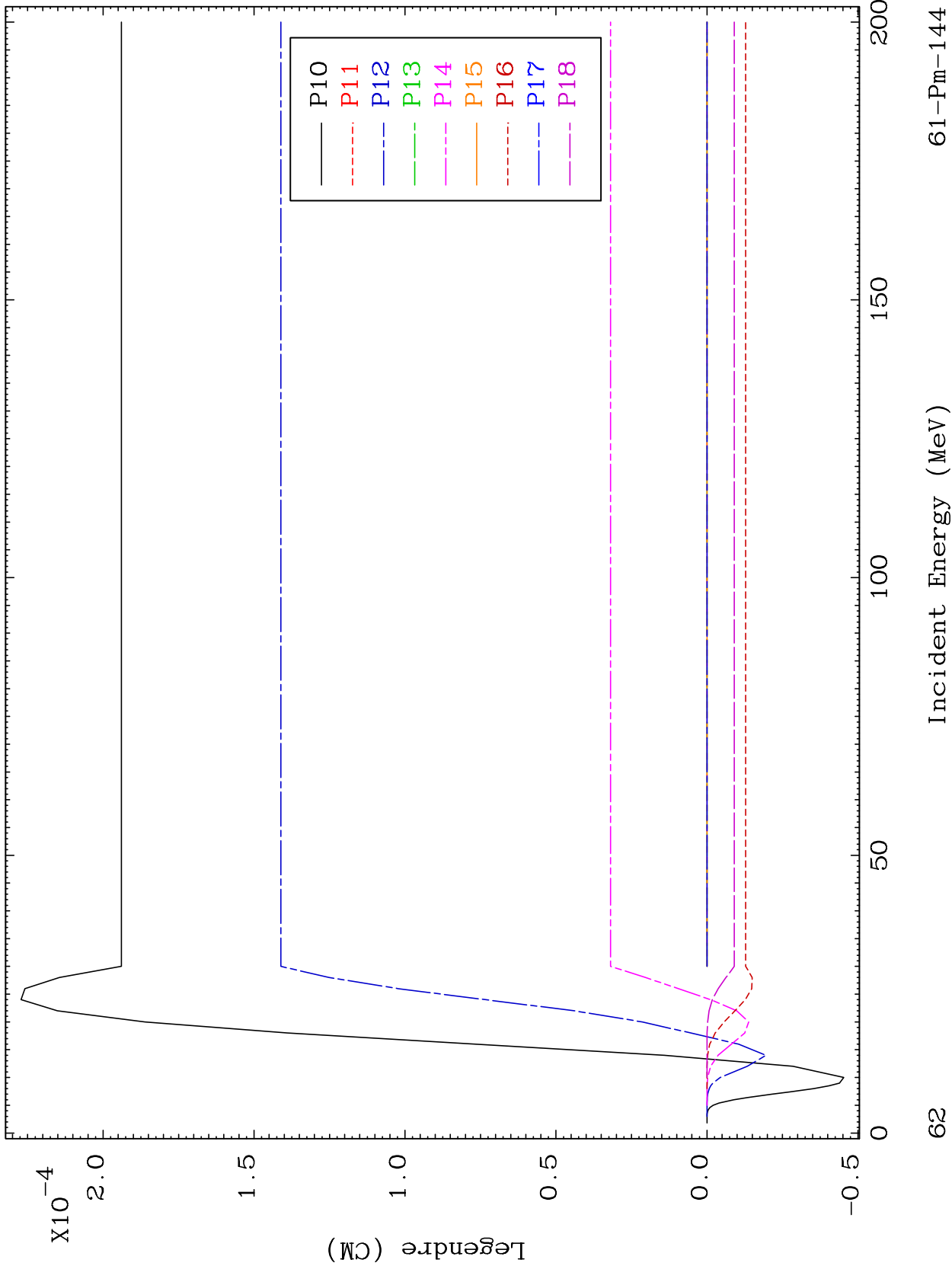
Incident Energy (MeV)

61-Pm-144

MAT 6140

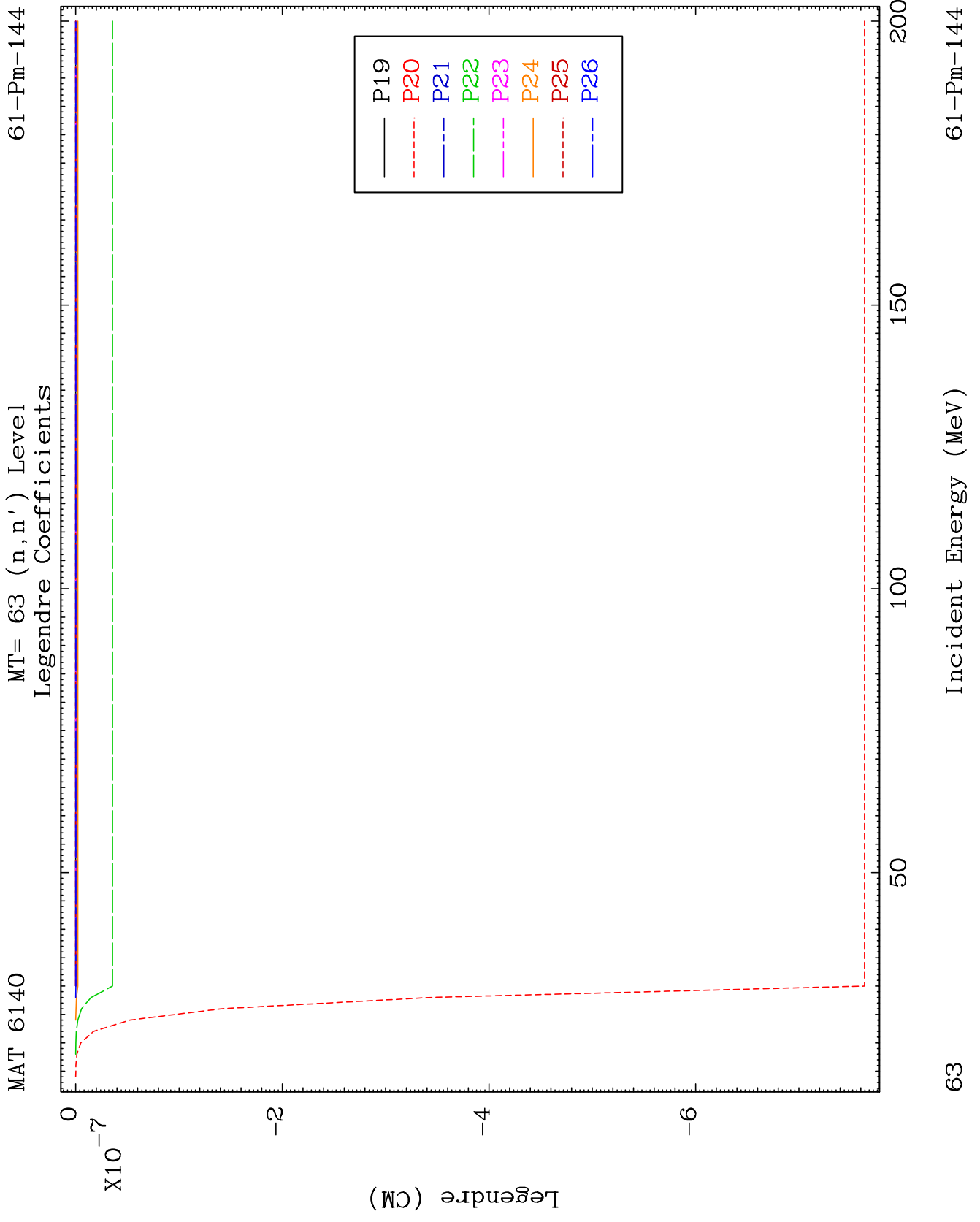
MT= 63 (n,n') Level
Legendre Coefficients

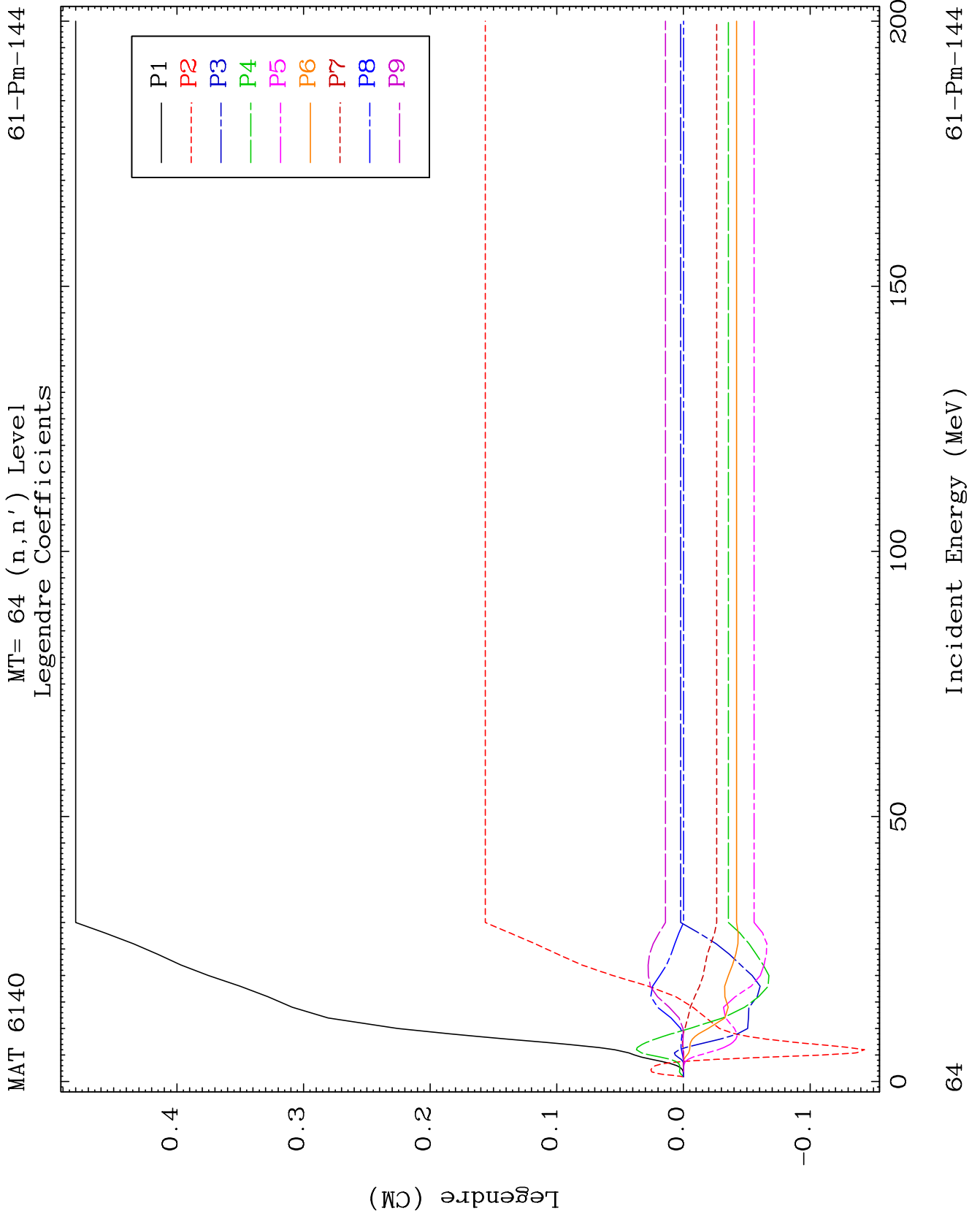
61-Pm-144



62

61-Pm-144

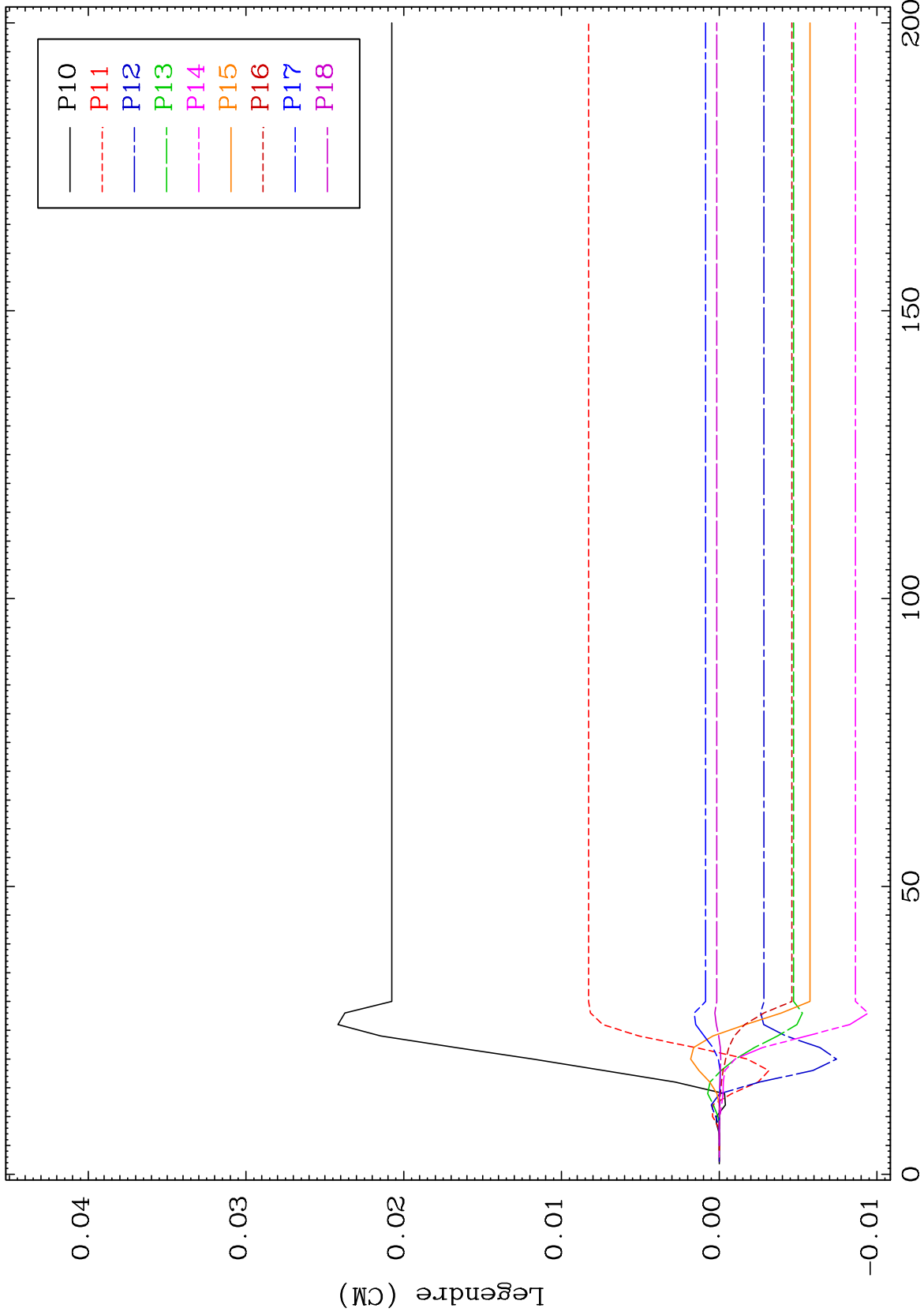




MAT 6140

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

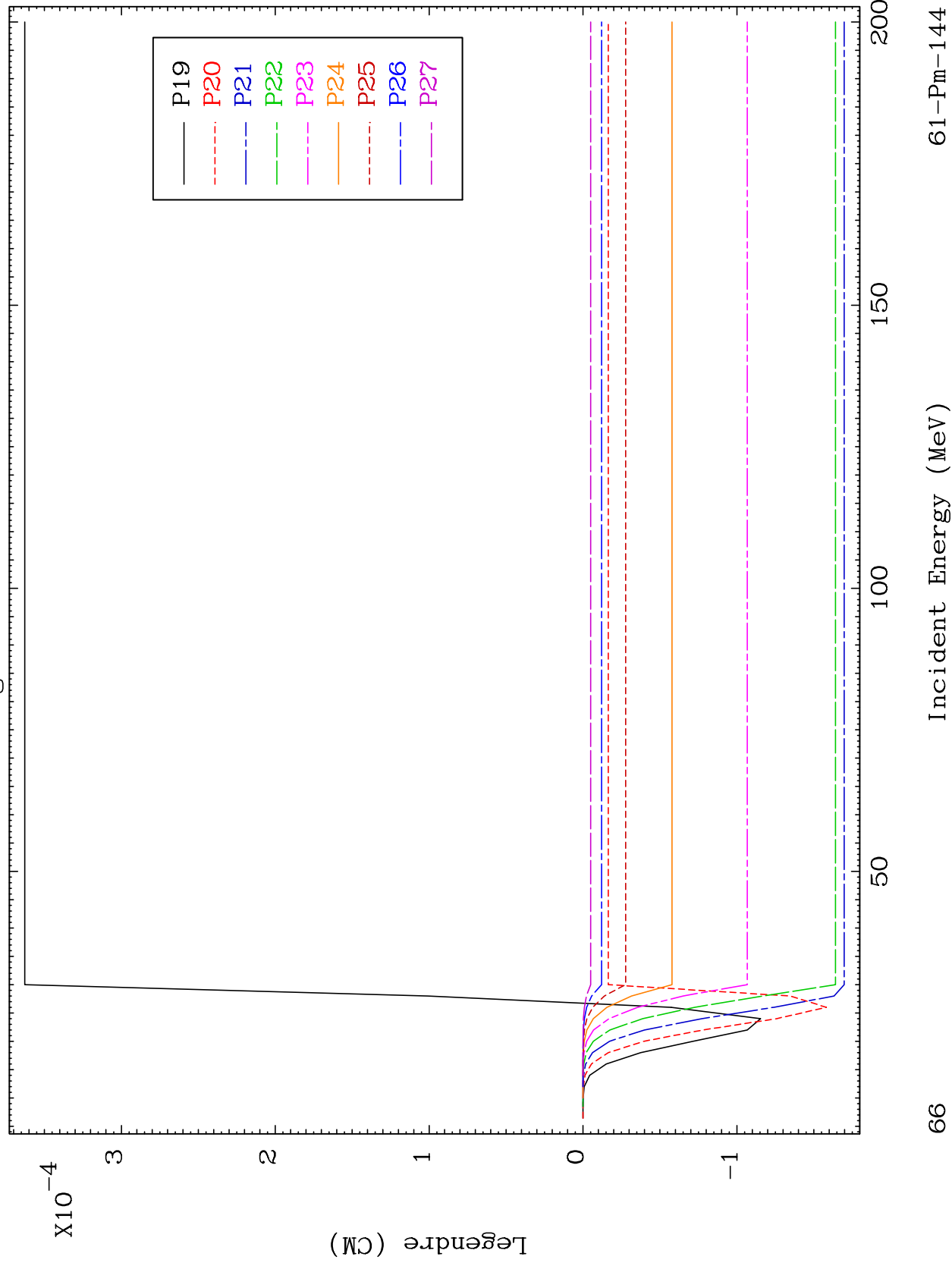
61-Pm-144

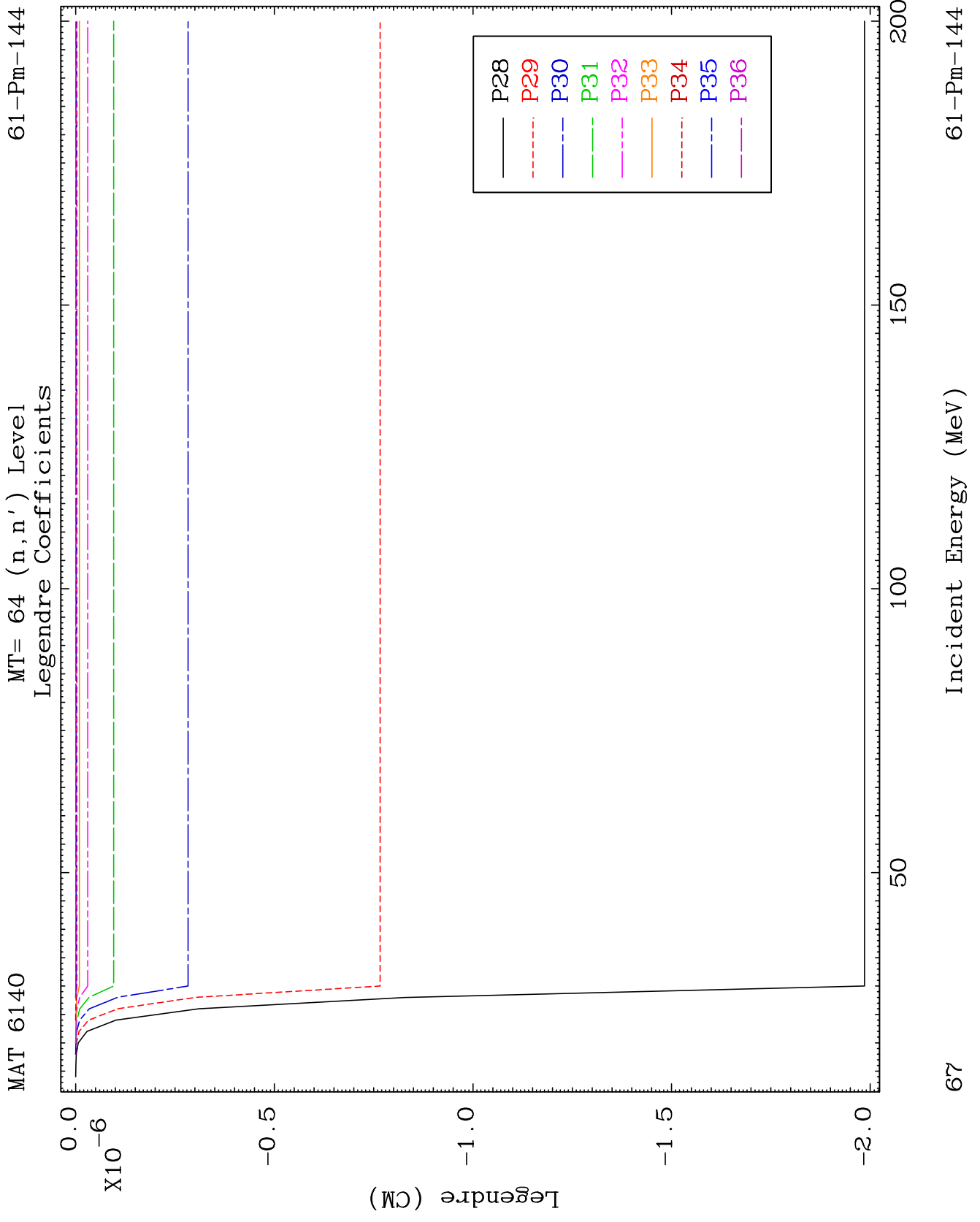


65

Incident Energy (MeV)

61-Pm-144

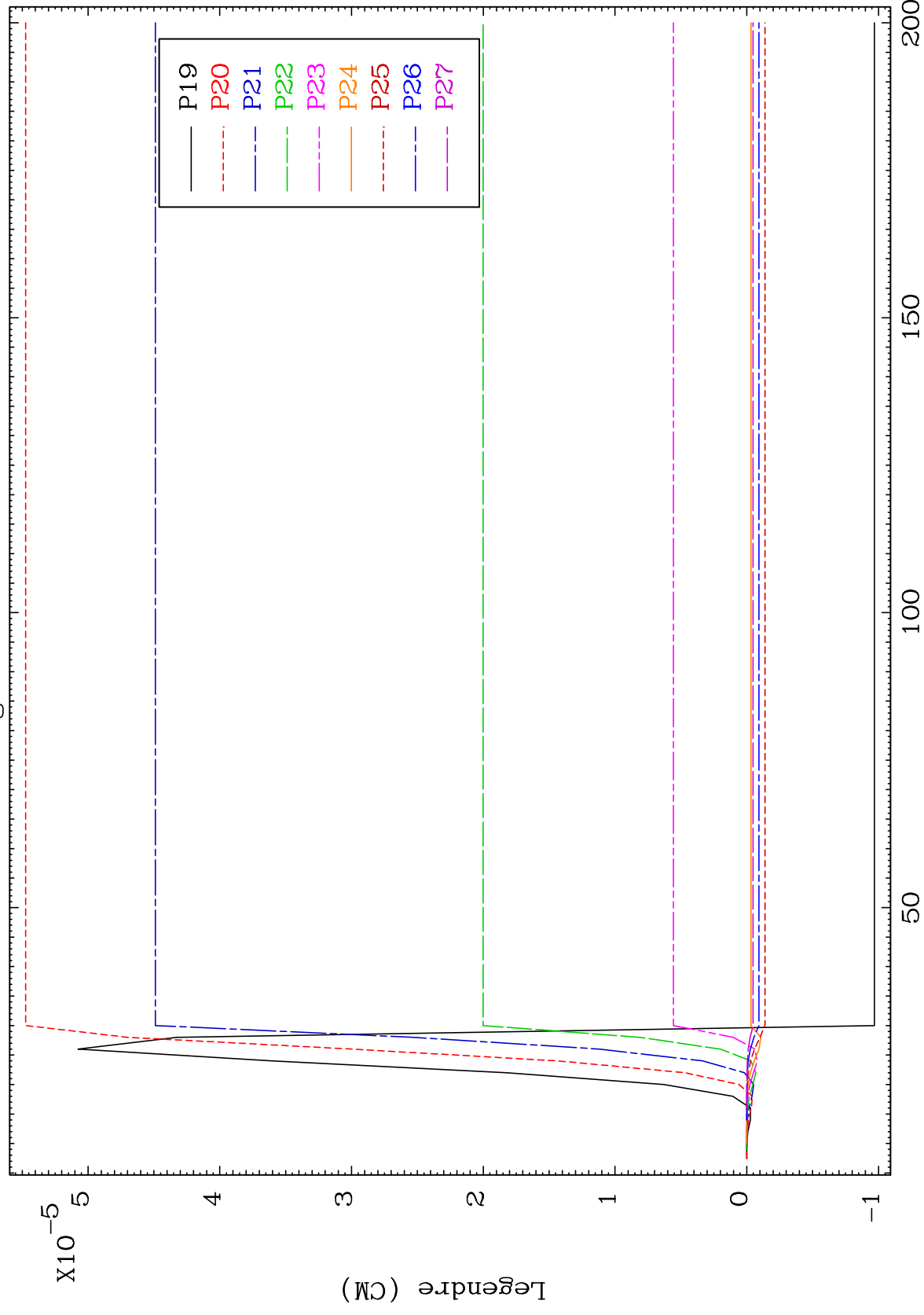




MAT 6140

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

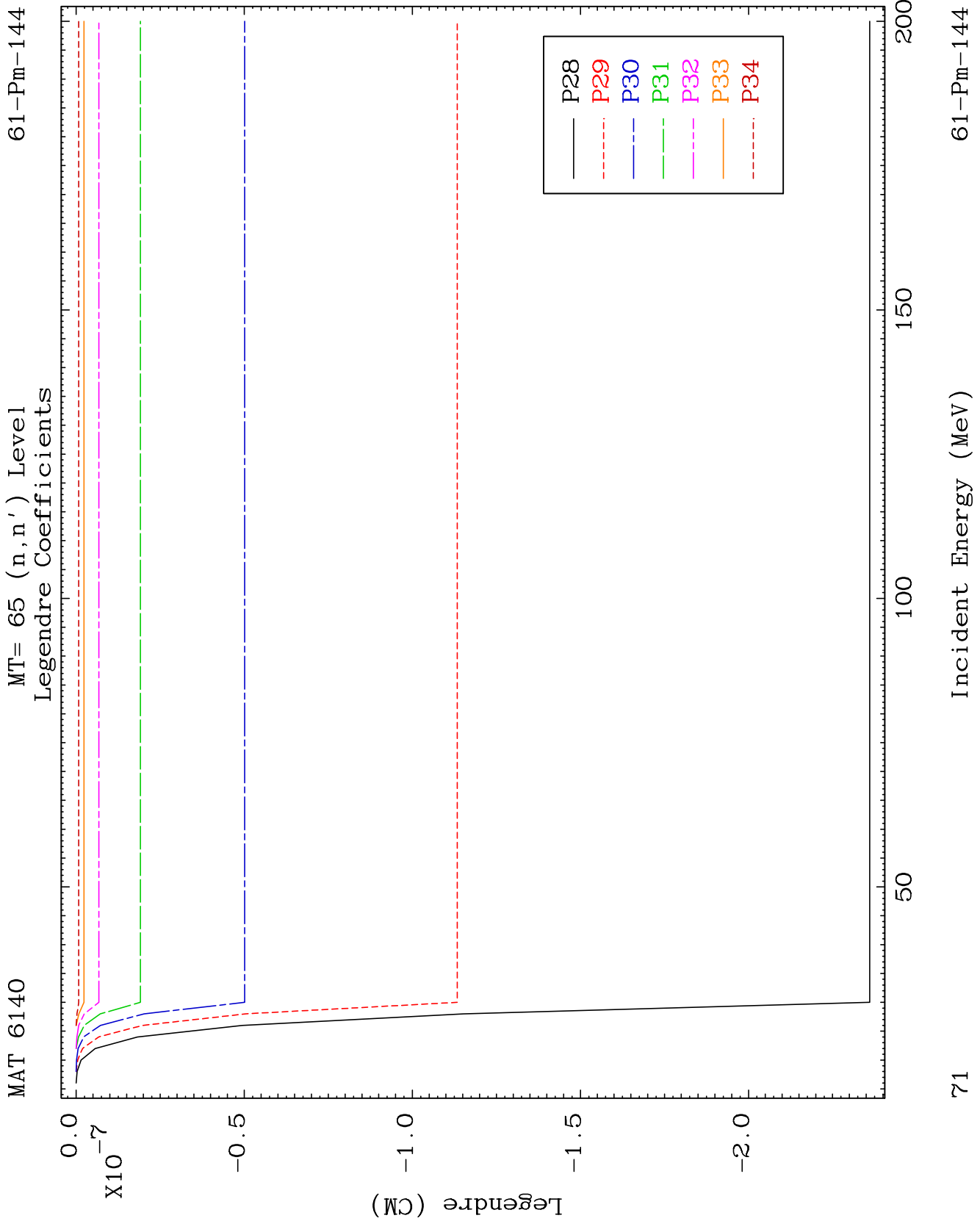
61-Pm-144



70

Incident Energy (MeV)

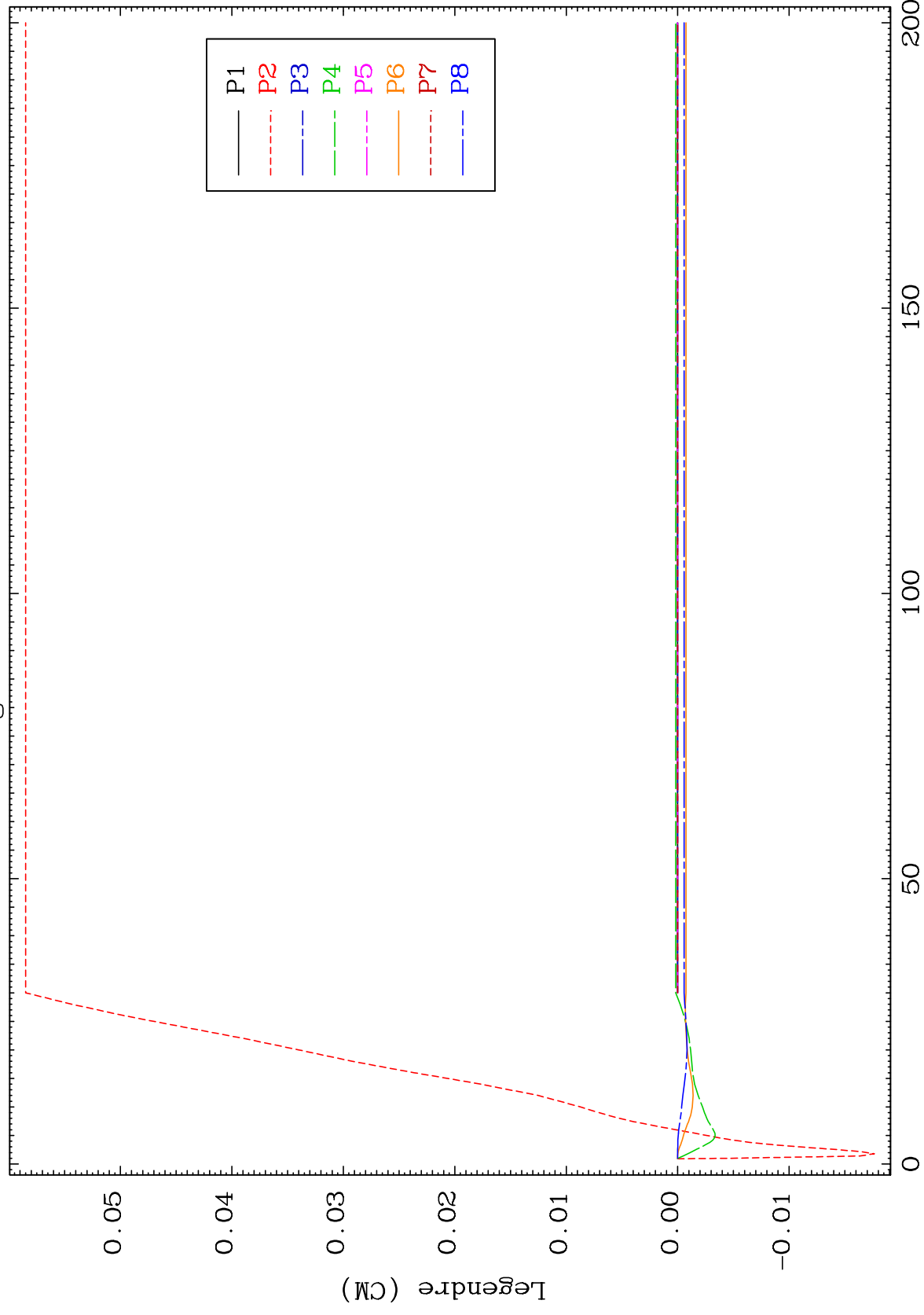
61-Pm-144



MAT 6140

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

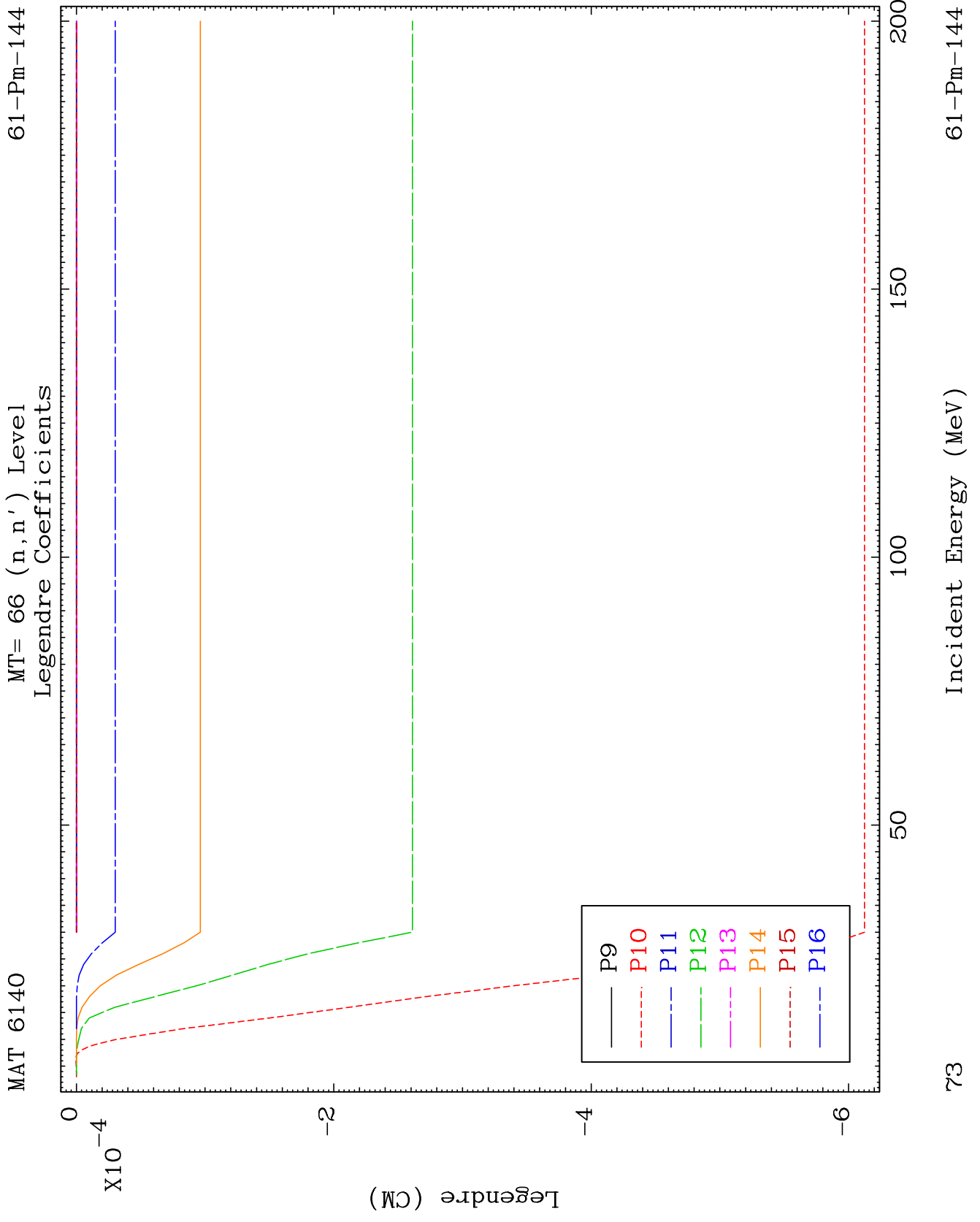
61-Pm-144



72

Incident Energy (MeV)

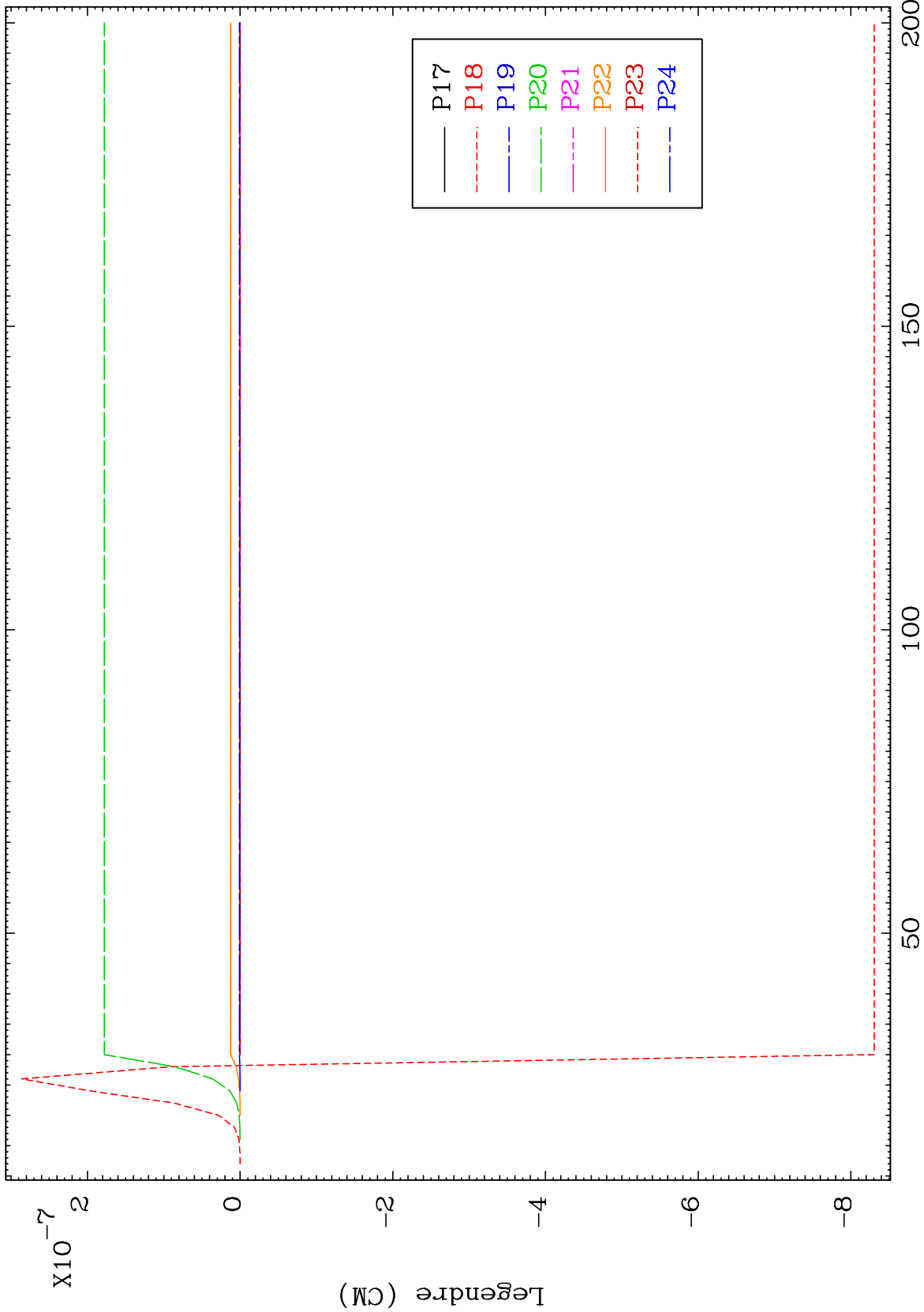
61-Pm-144



MAT 6140

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

61-Pm-144



74

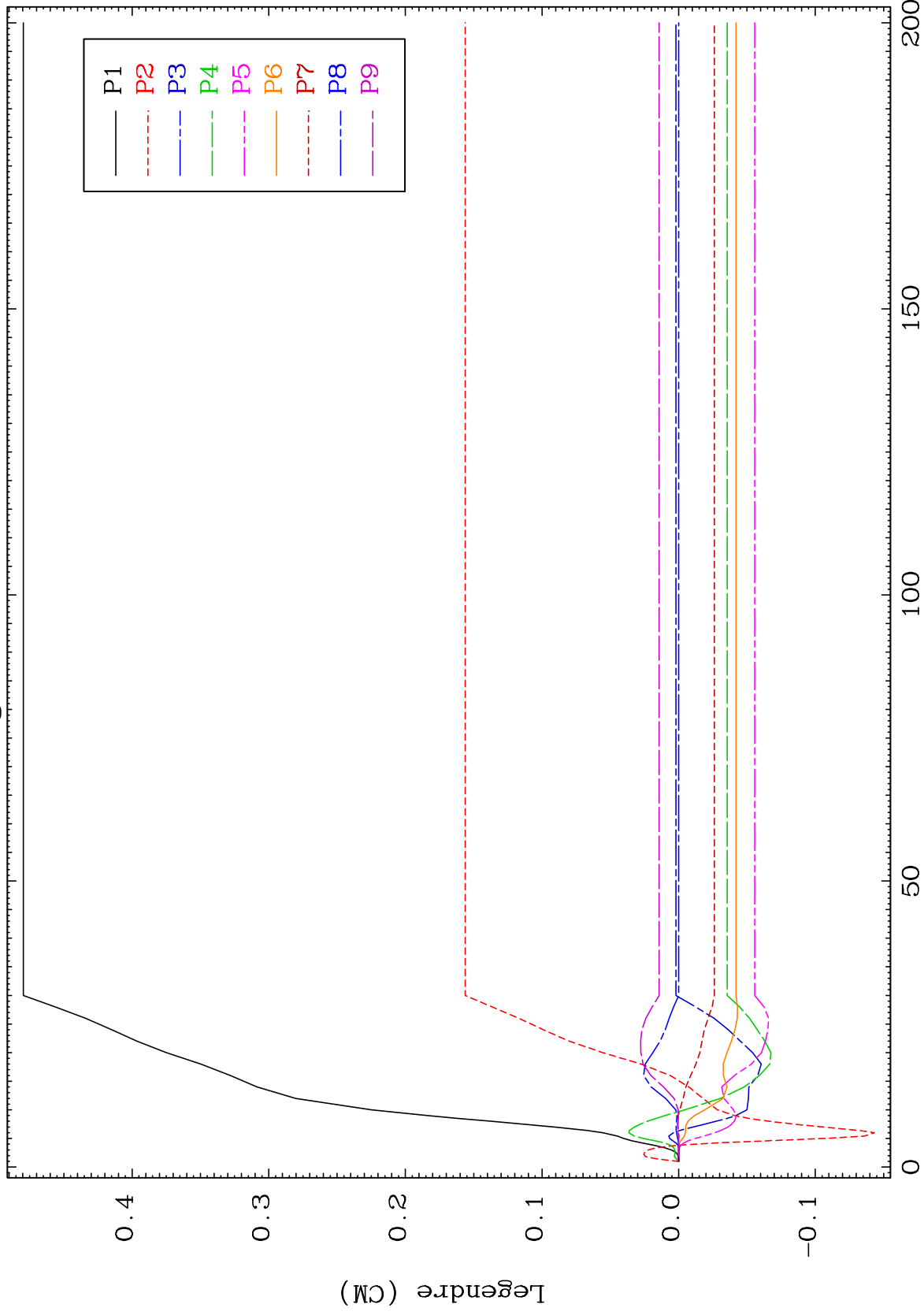
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

61-Pm-144



61-Pm-144

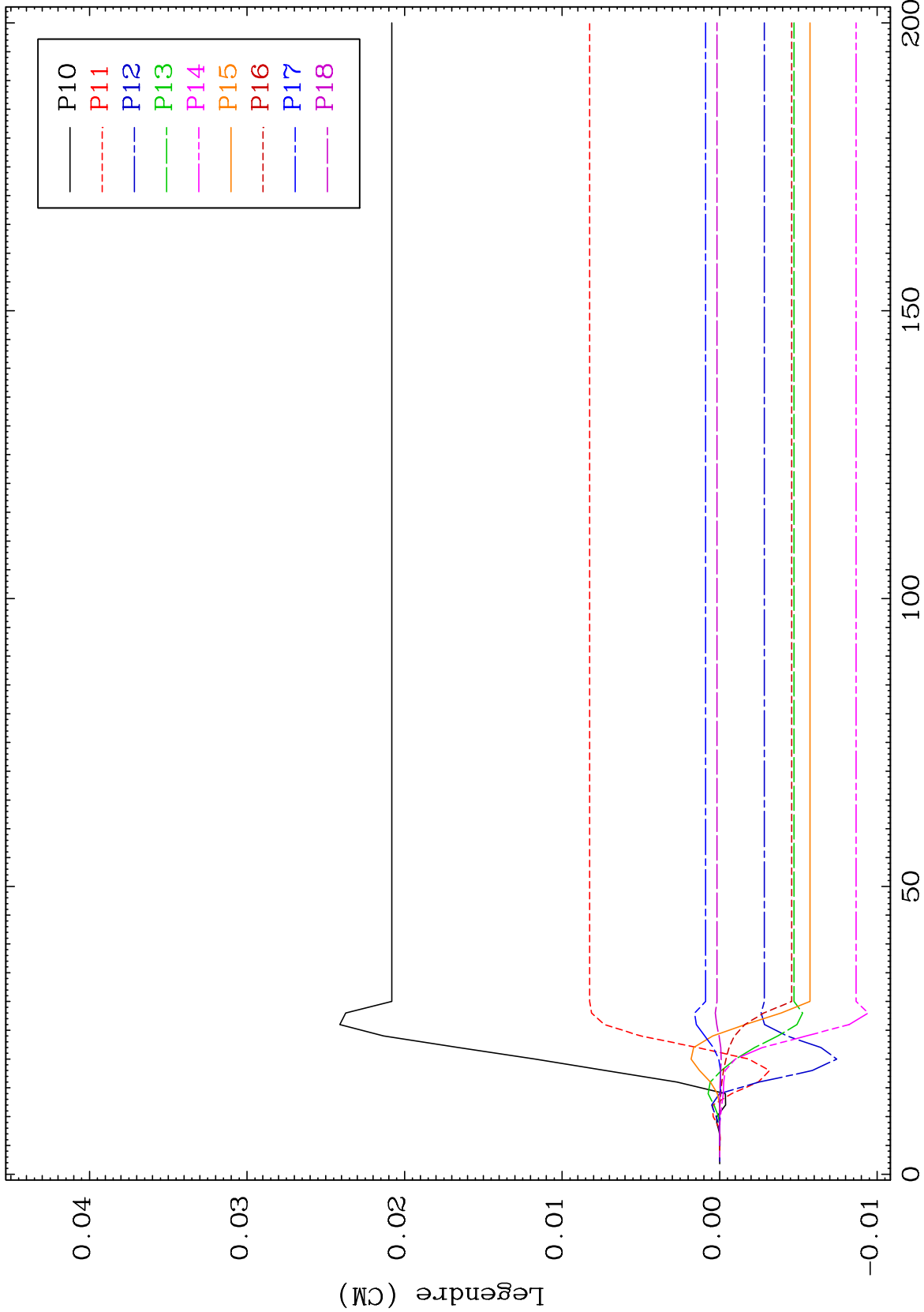
Incident Energy (MeV)

75

MAT 6140

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

61-Pm-144



76

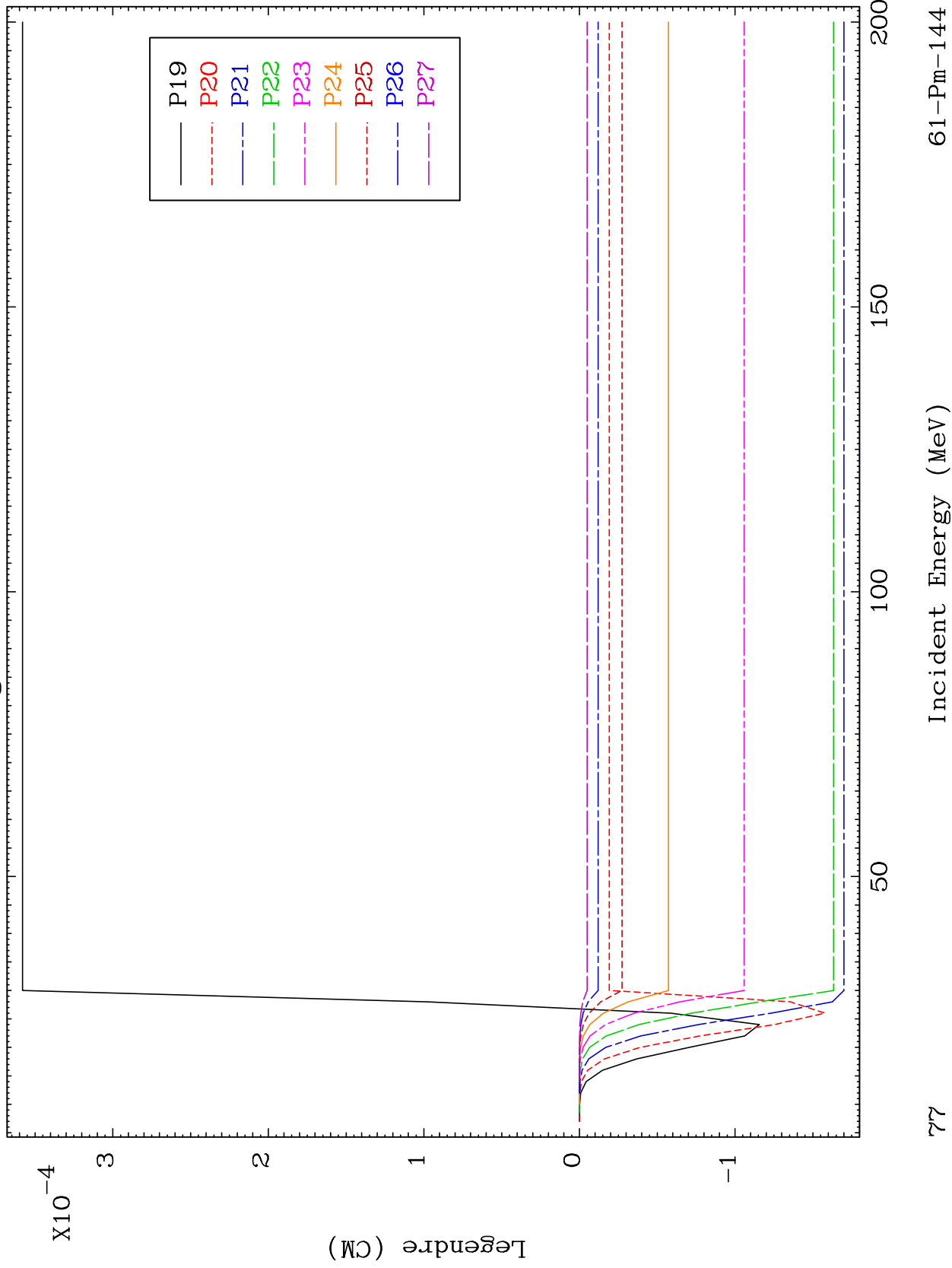
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

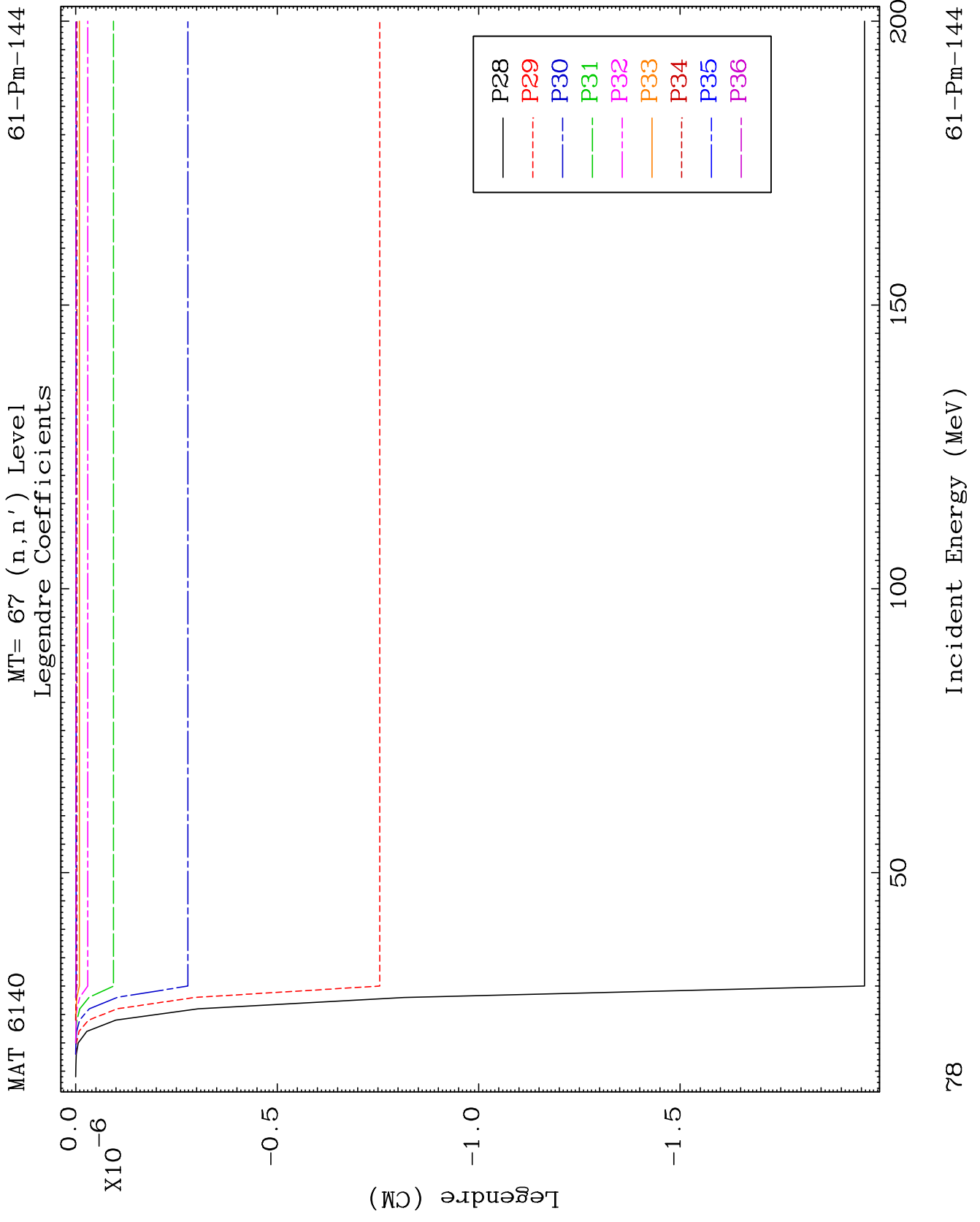
61-Pm-144



77

Incident Energy (MeV)

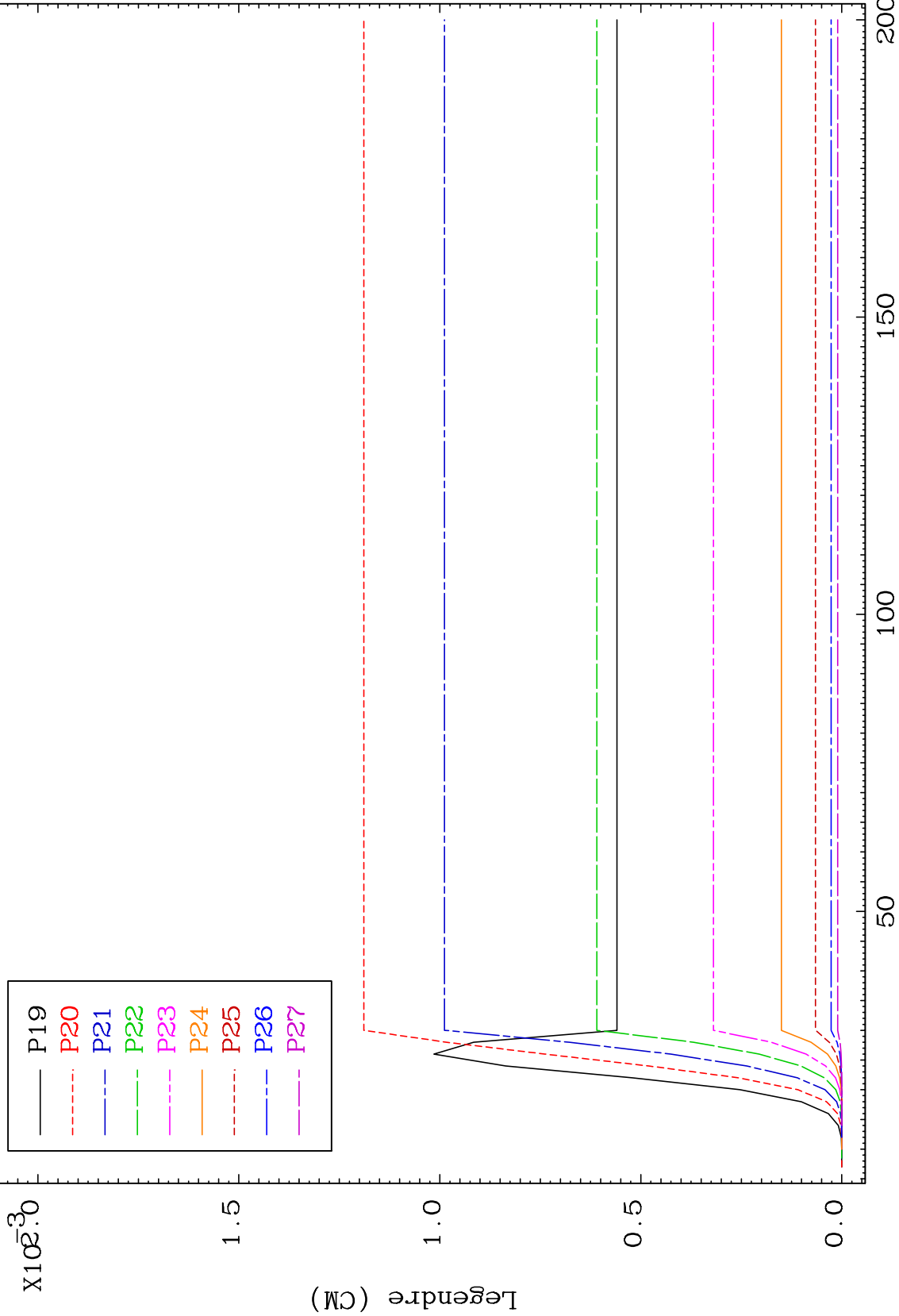
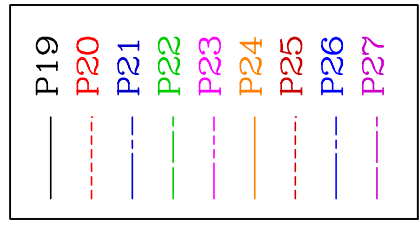
61-Pm-144



MAT 6140

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

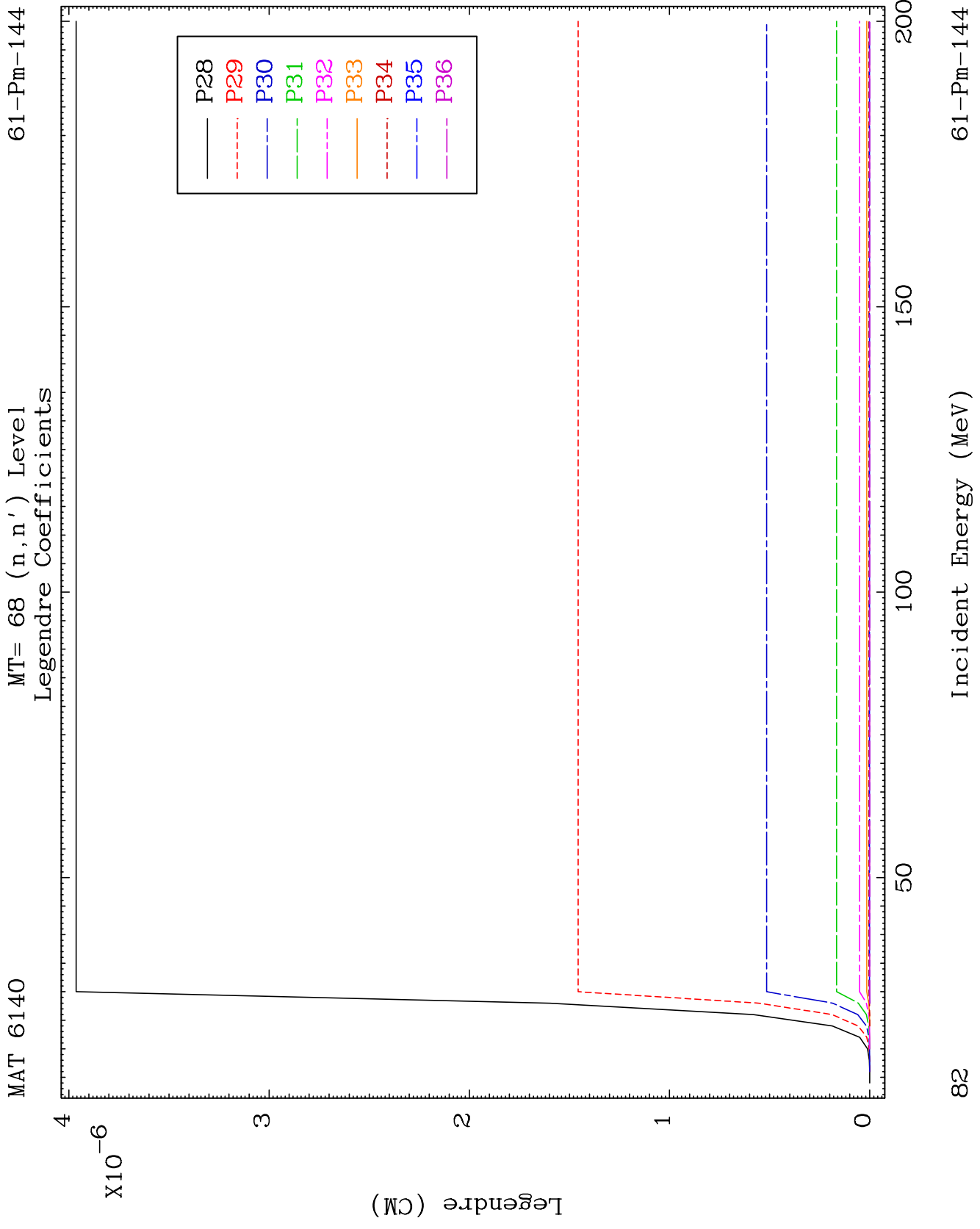
61-Pm-144



81

Incident Energy (MeV)

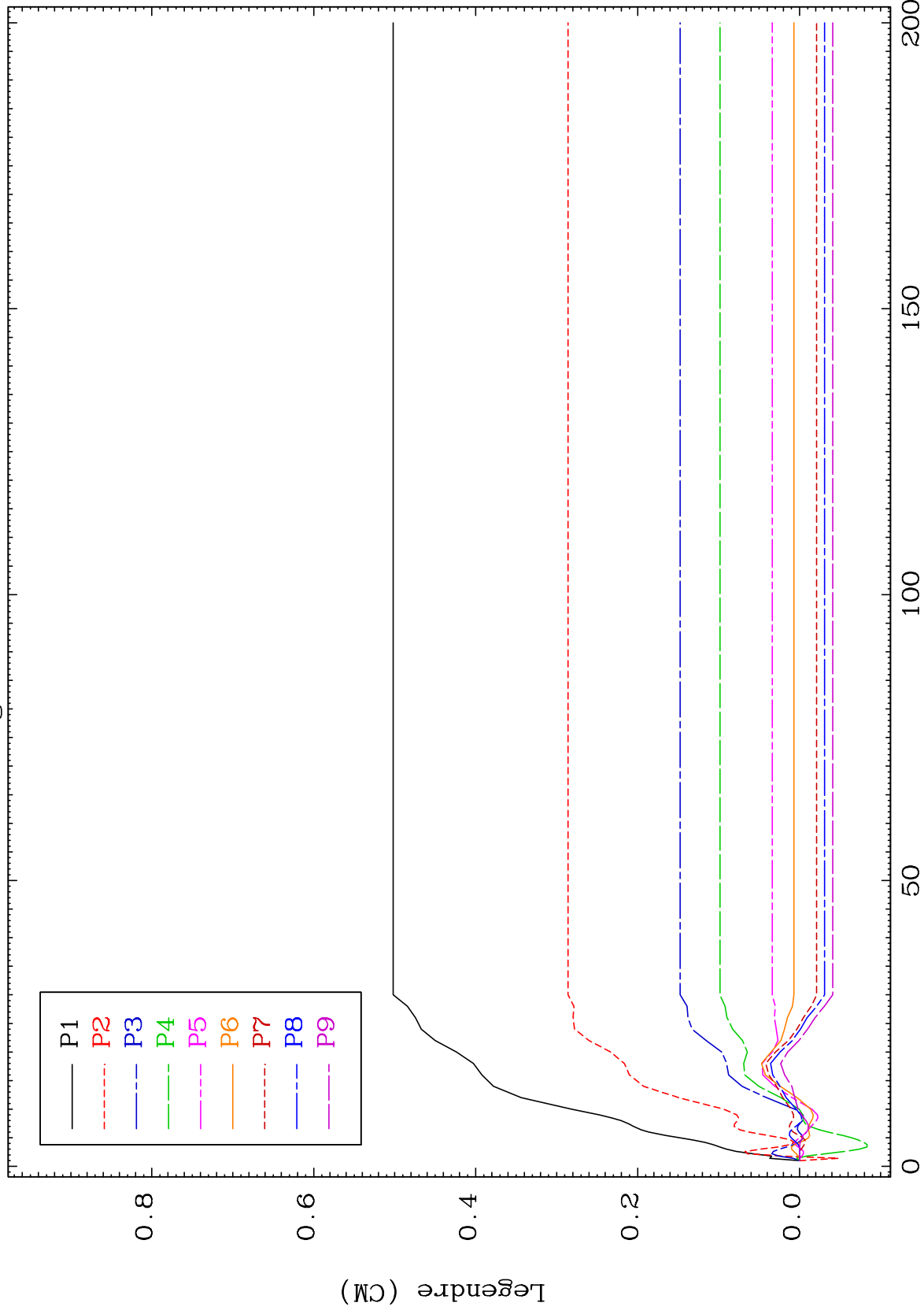
61-Pm-144



MAT 6140

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

61-Pm-144



83

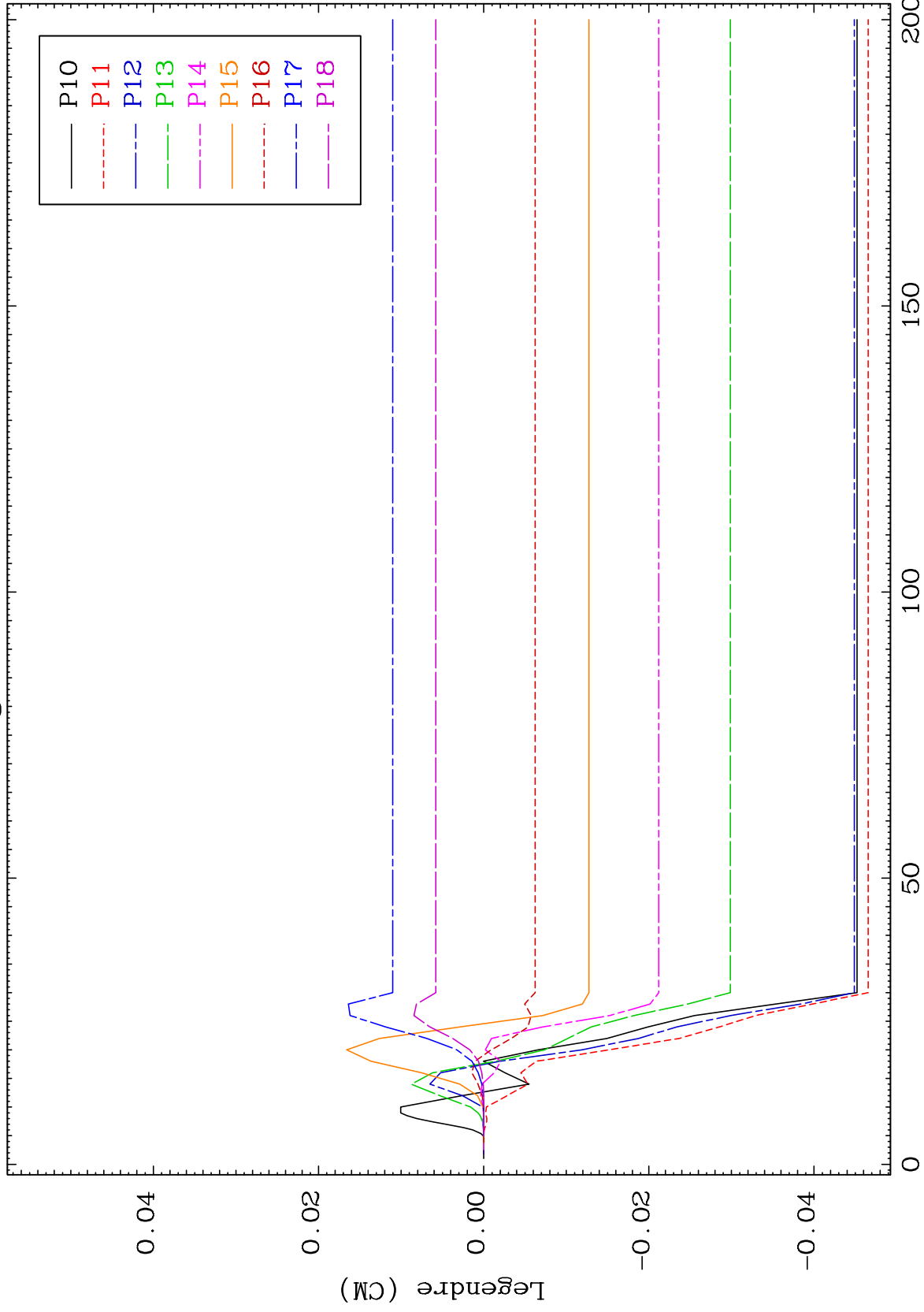
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

61-Pm-144



84

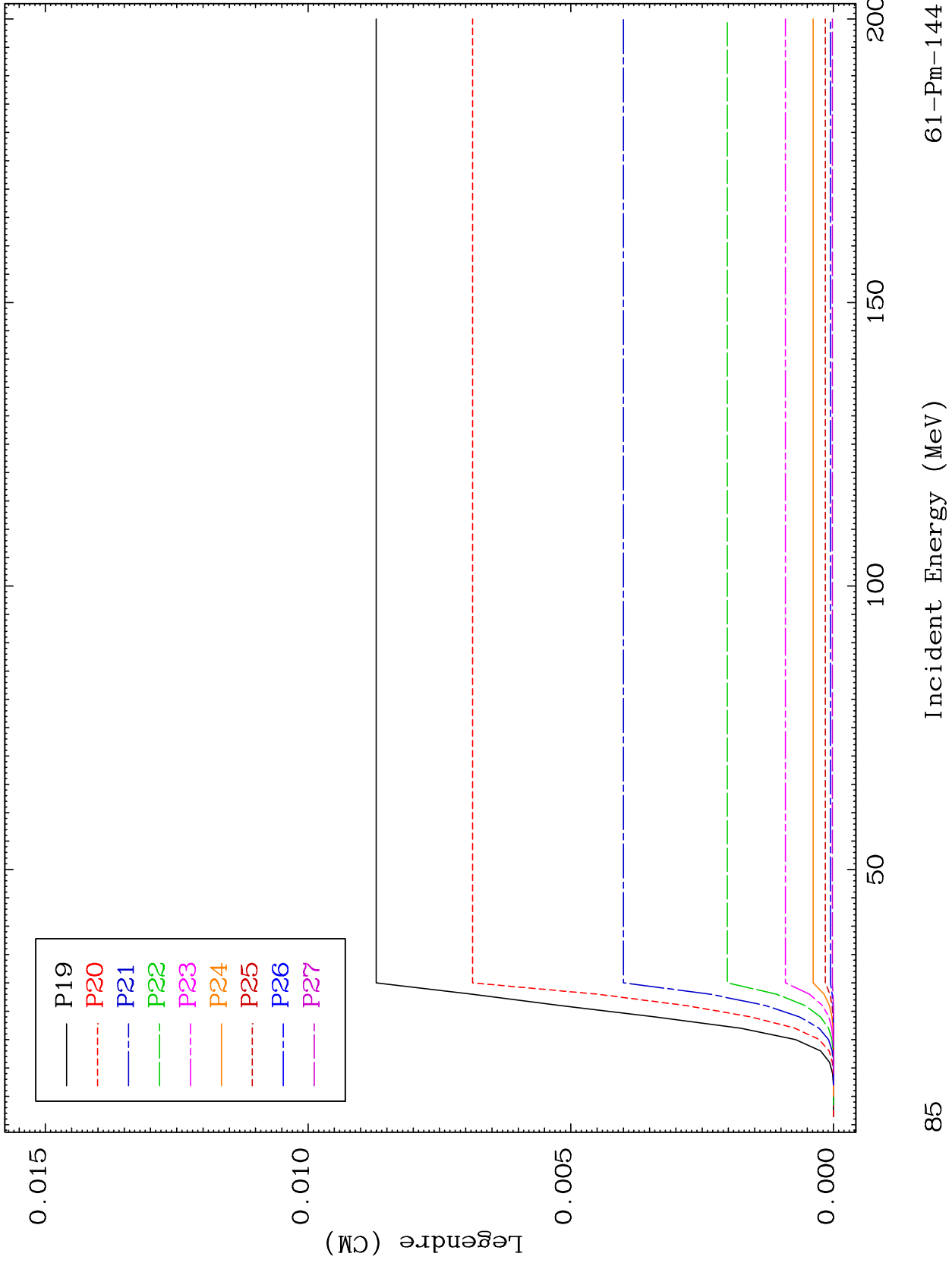
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

61-Pm-144



85

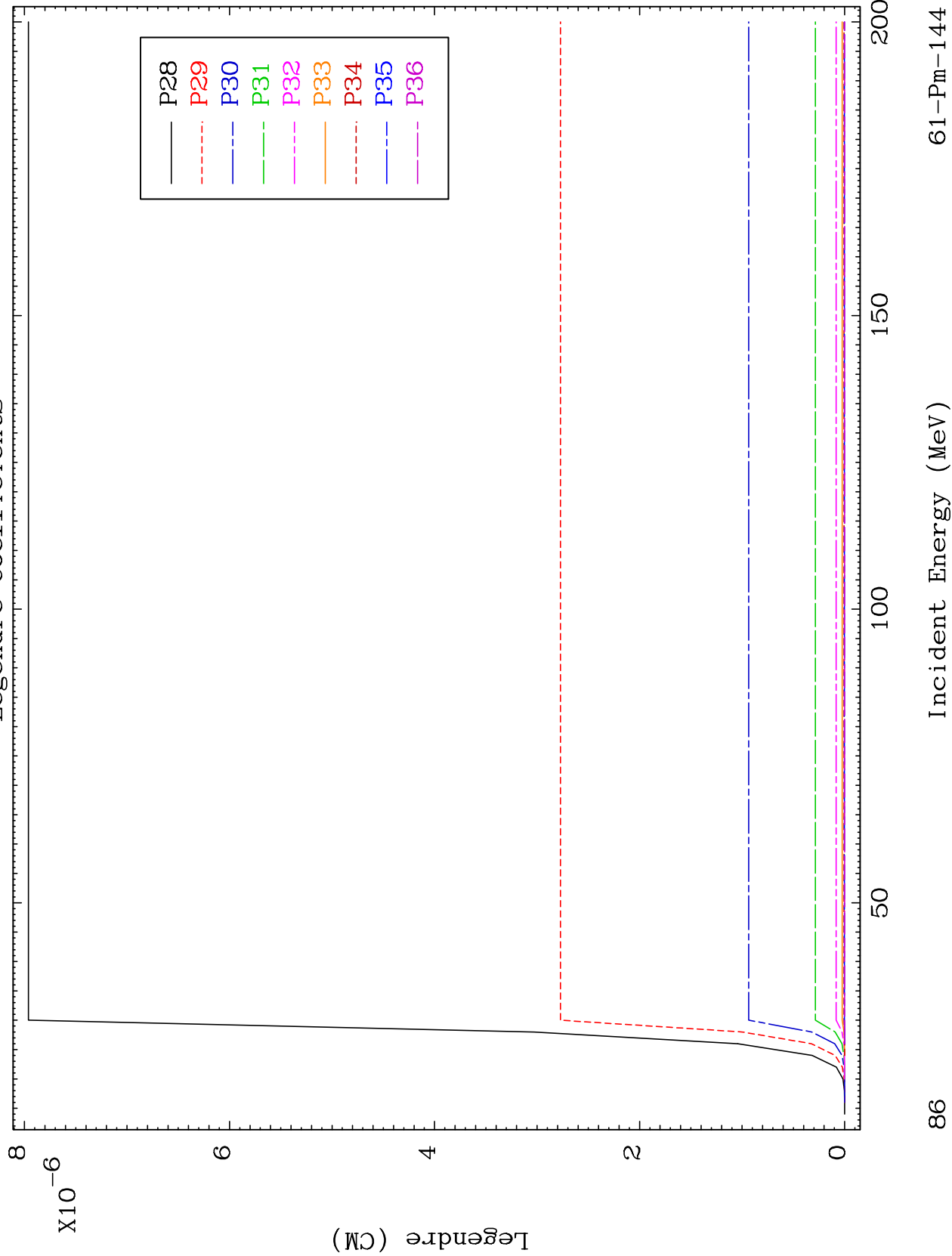
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

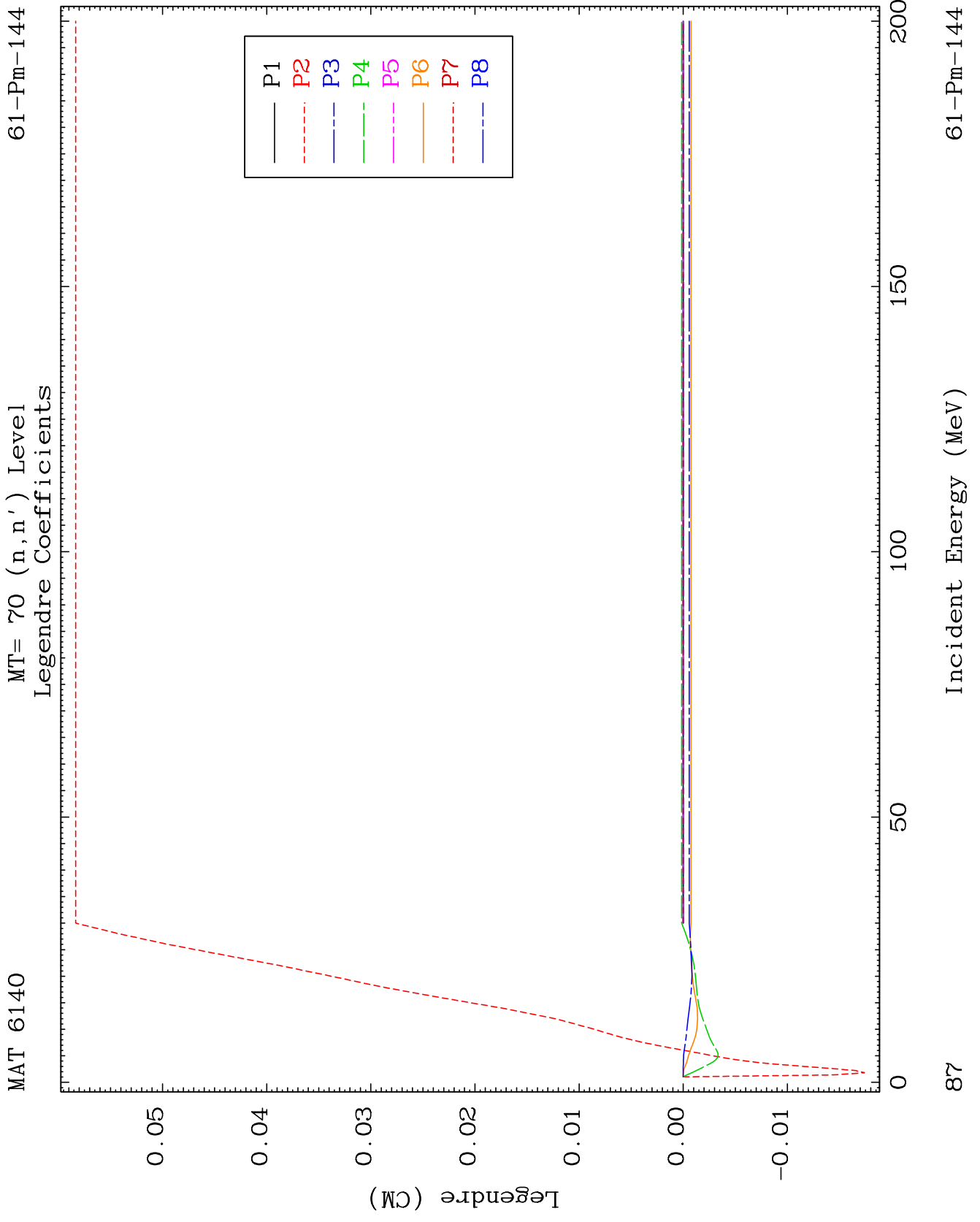
61-Pm-144

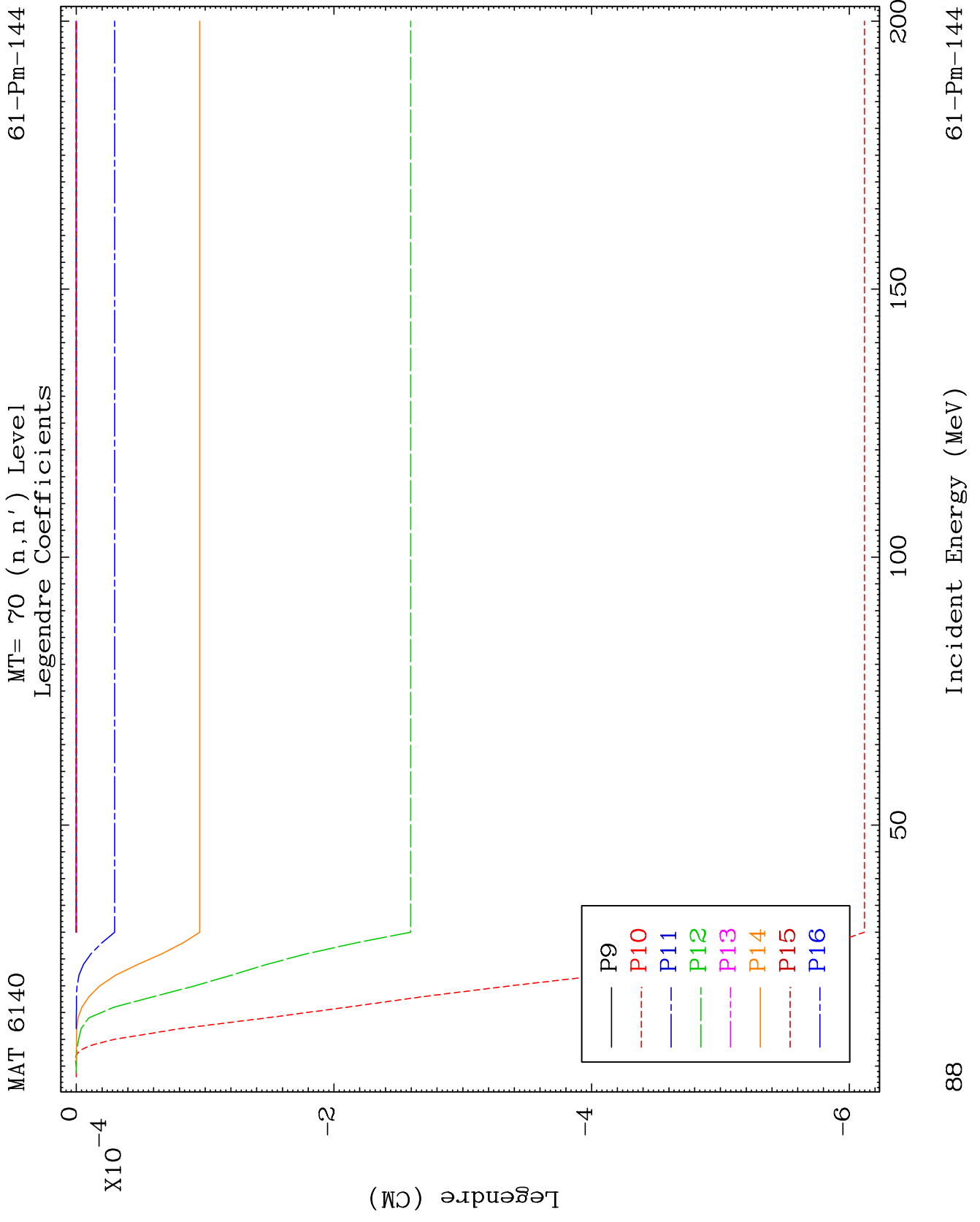


86

Incident Energy (MeV)

61-Pm-144

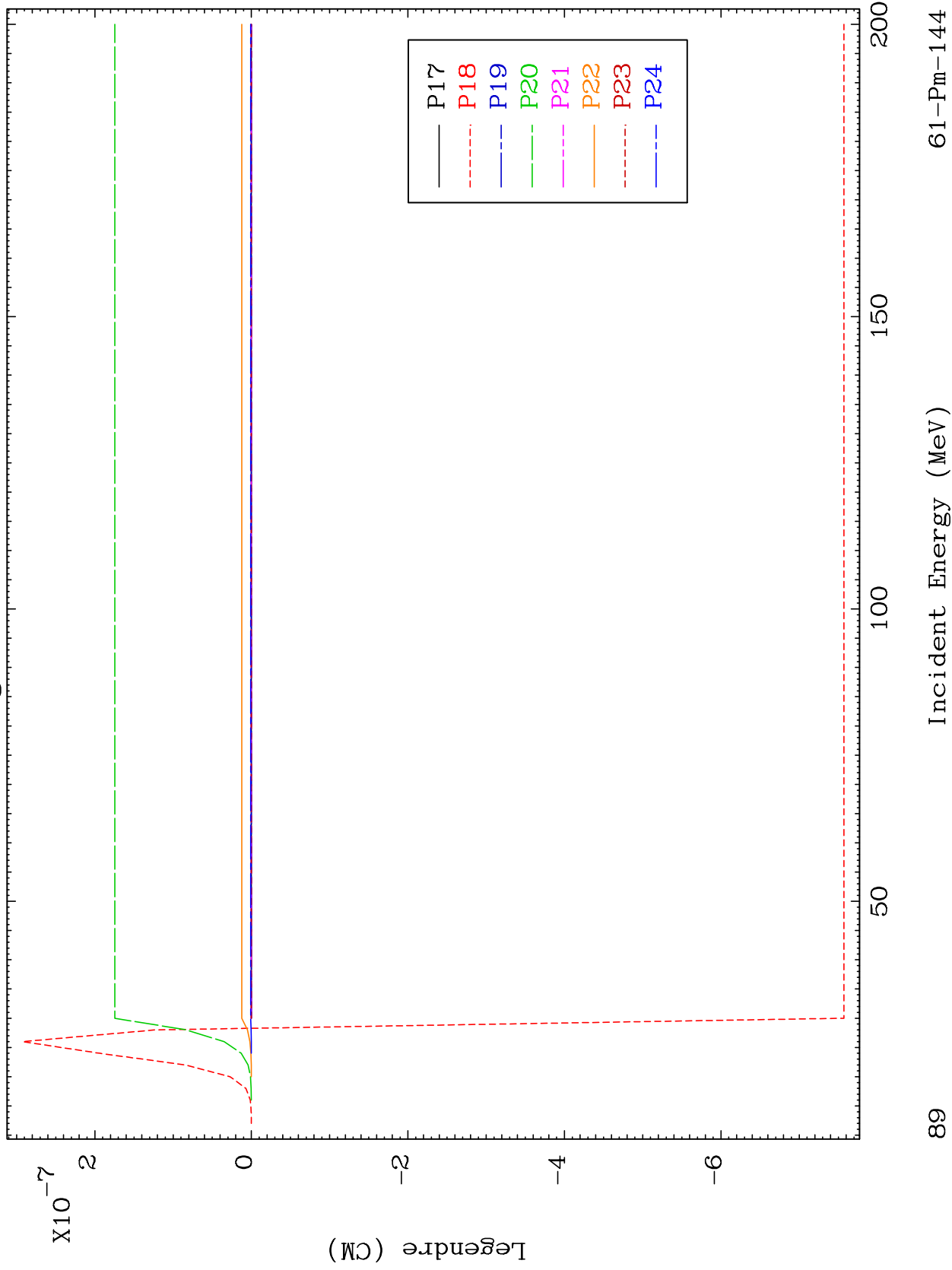




MAT 6140

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

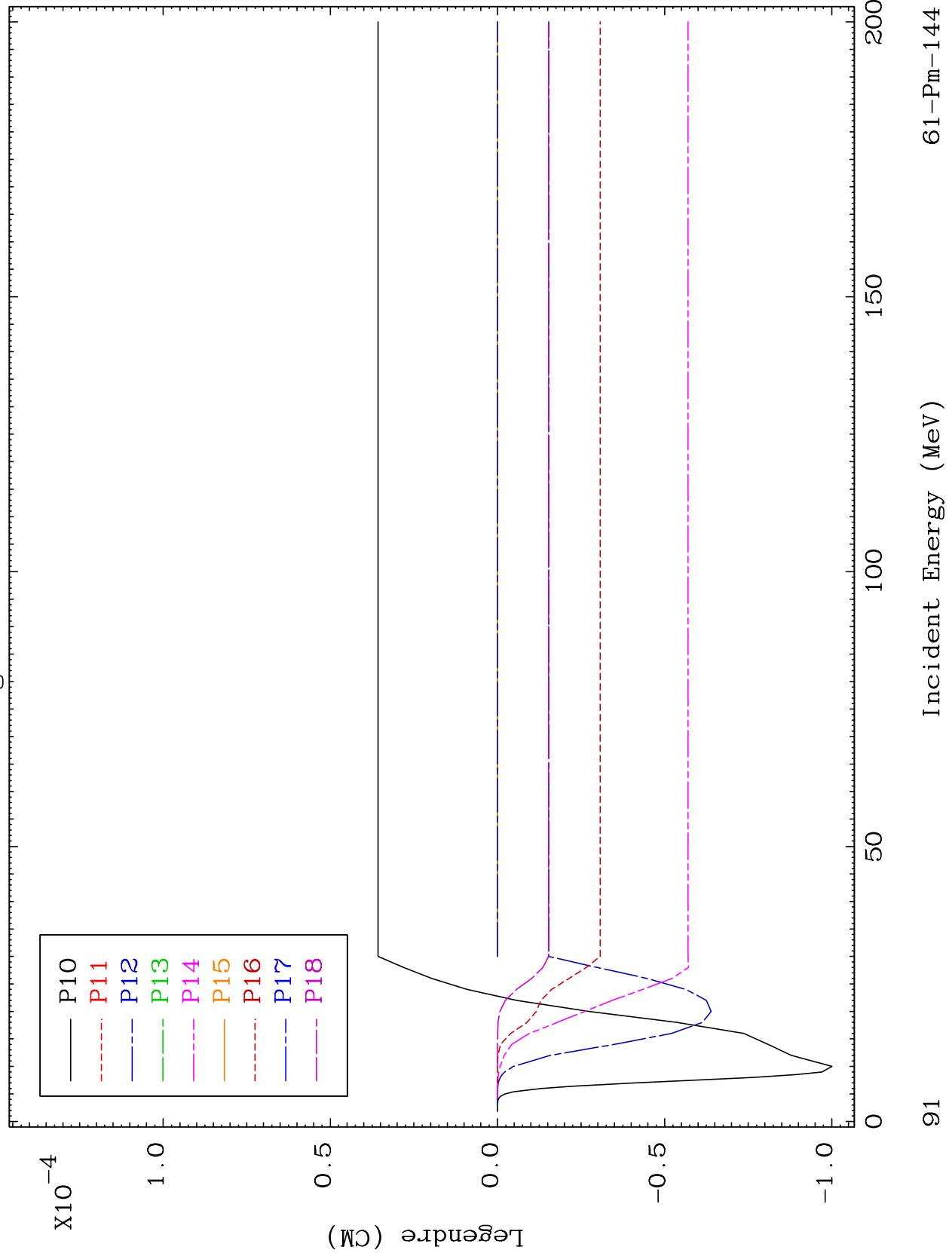
61-Pm-144

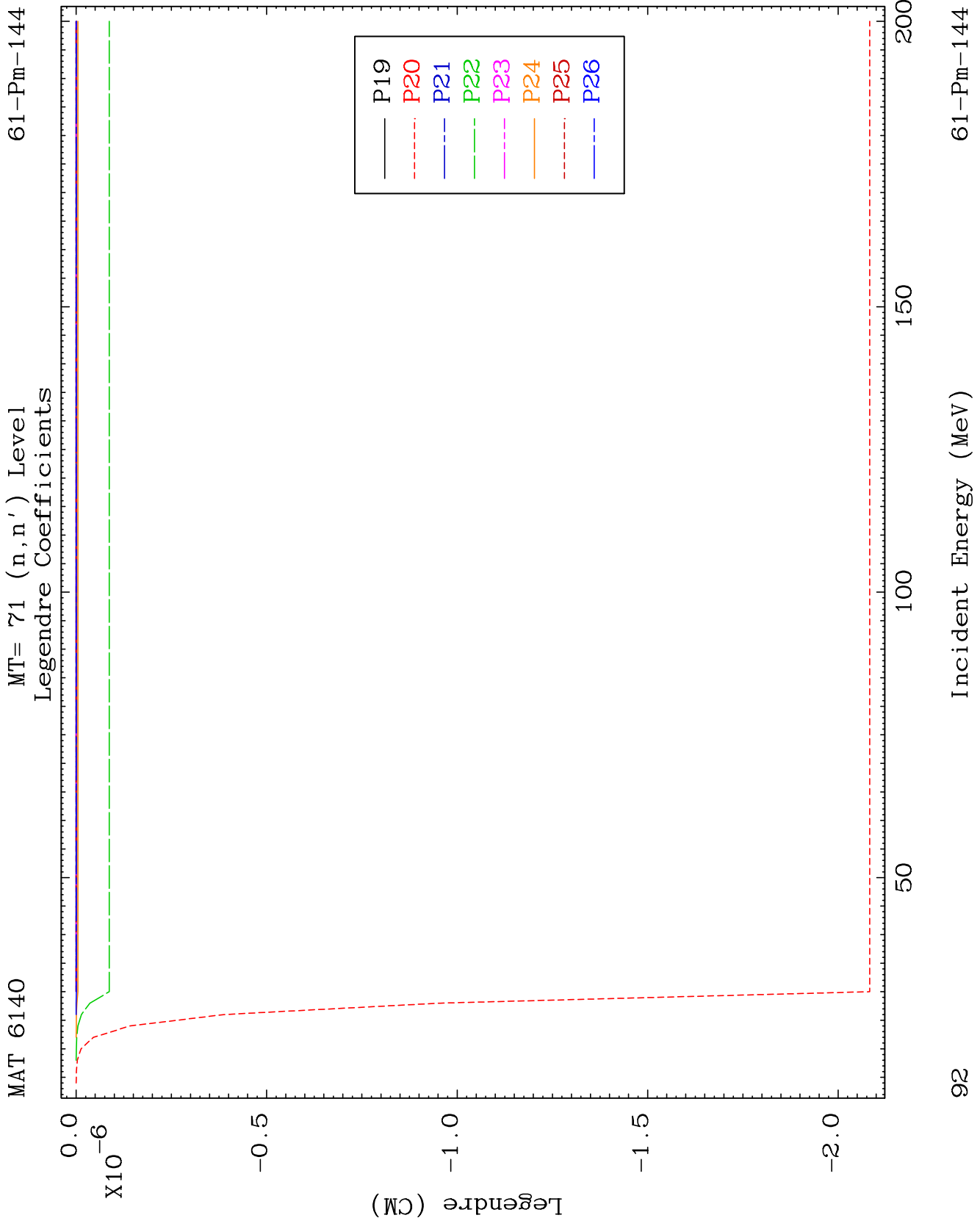


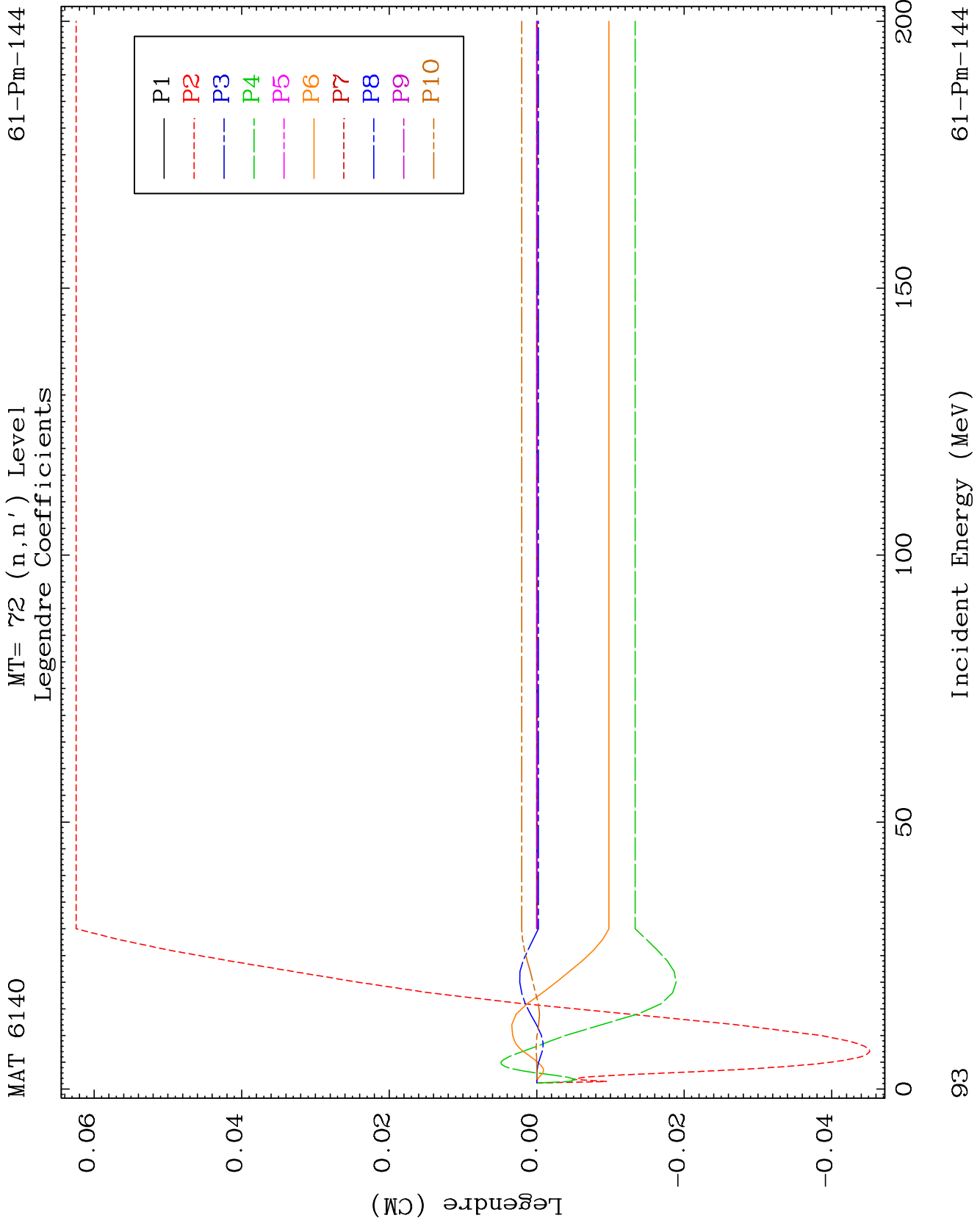
89

Incident Energy (MeV)

61-Pm-144







61-Pm-144

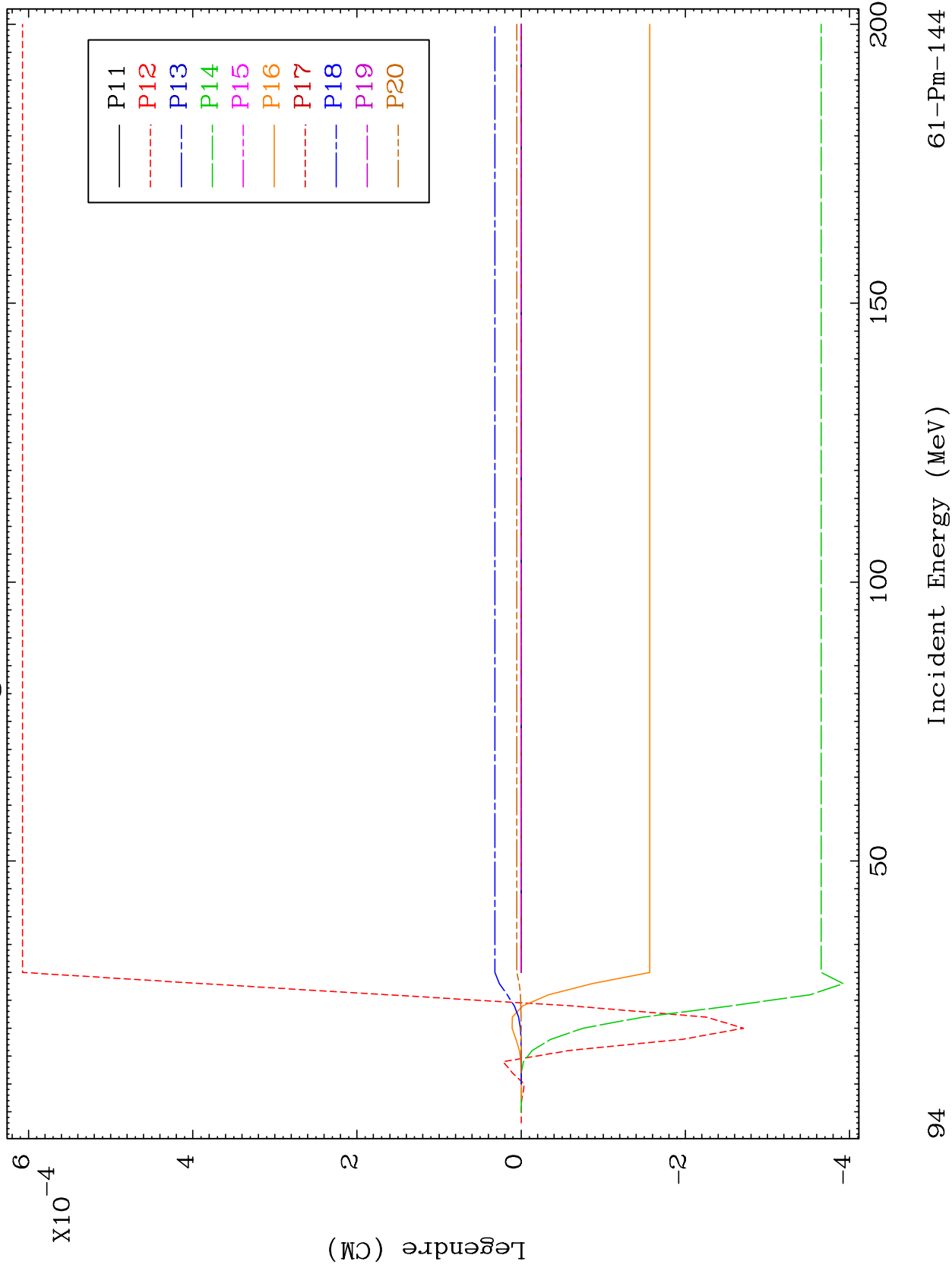
Incident Energy (MeV)

93

MAT 6140

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

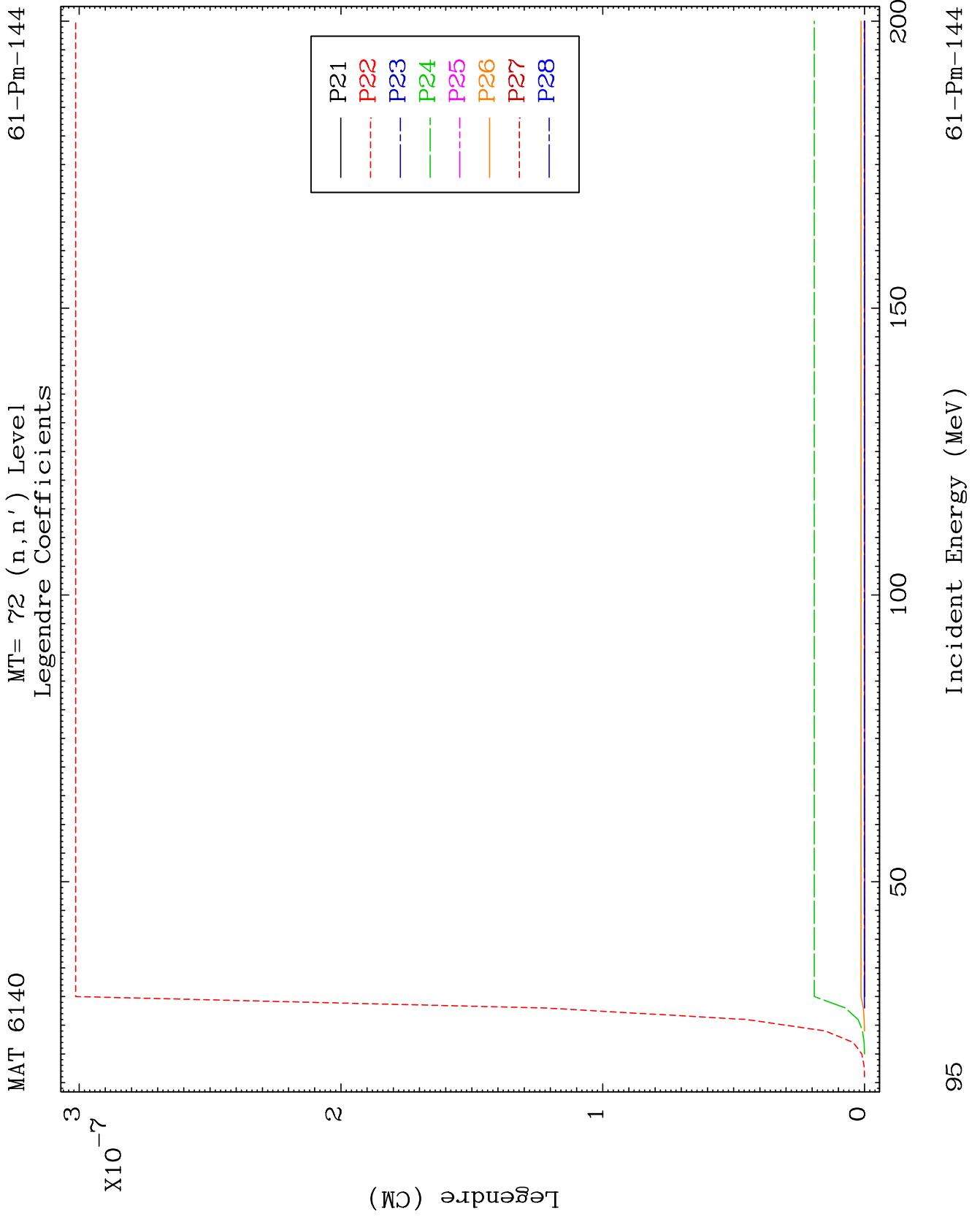
61-Pm-144



94

Incident Energy (MeV)

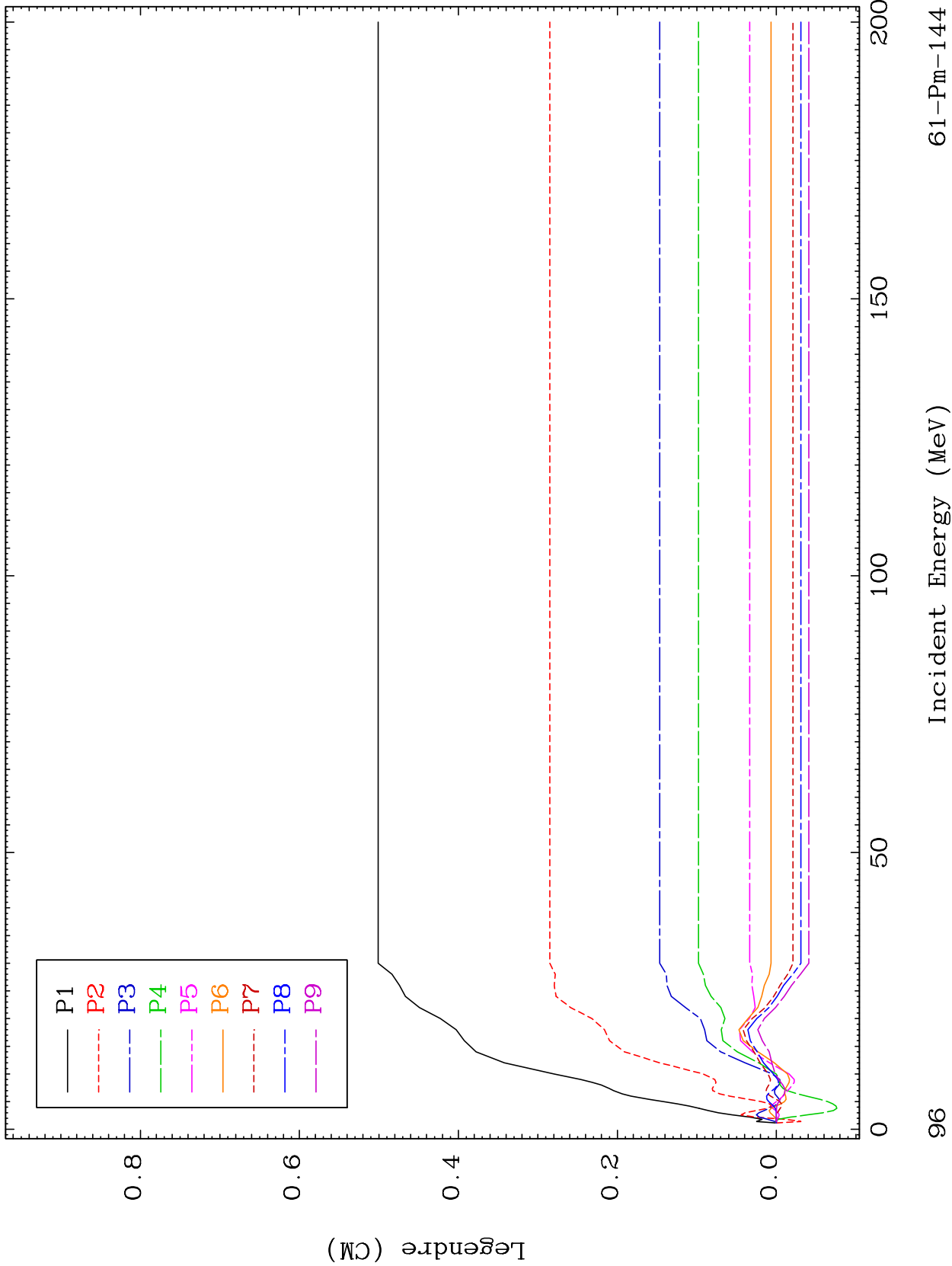
61-Pm-144



MAT 6140

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

61-Pm-144



61-Pm-144

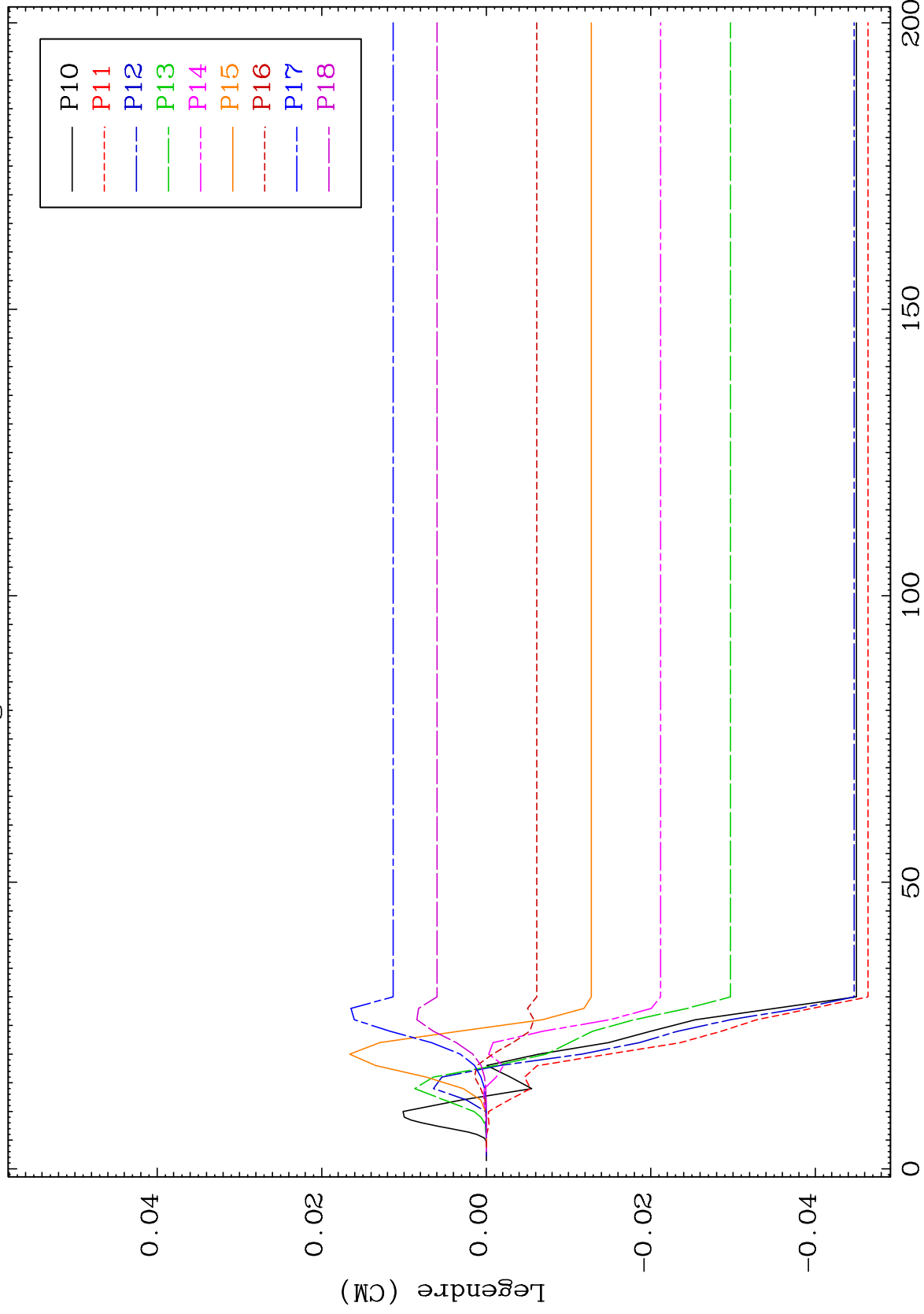
Incident Energy (MeV)

96

MAT 6140

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

61-Pm-144



97

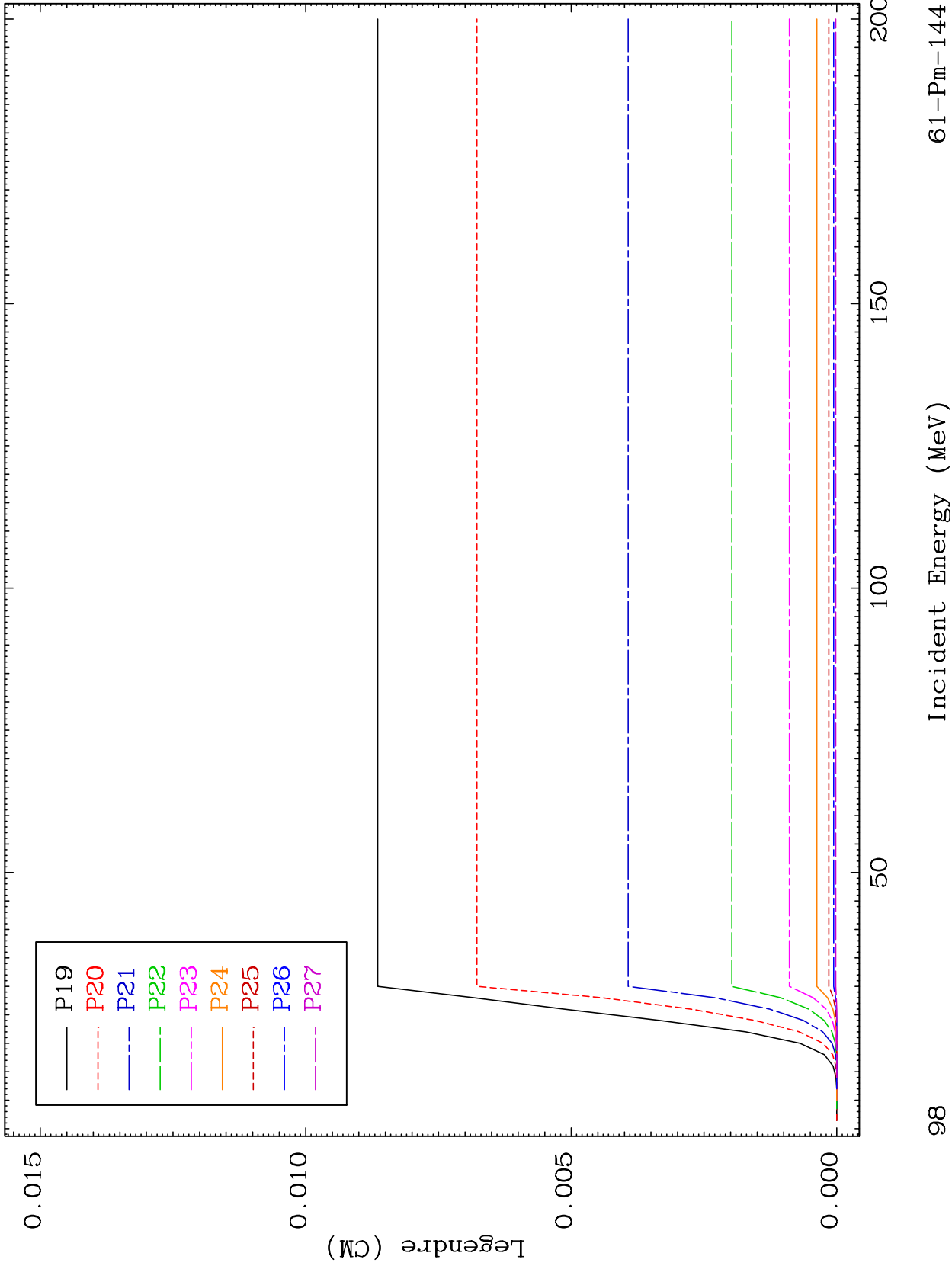
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

61-Pm-144



98

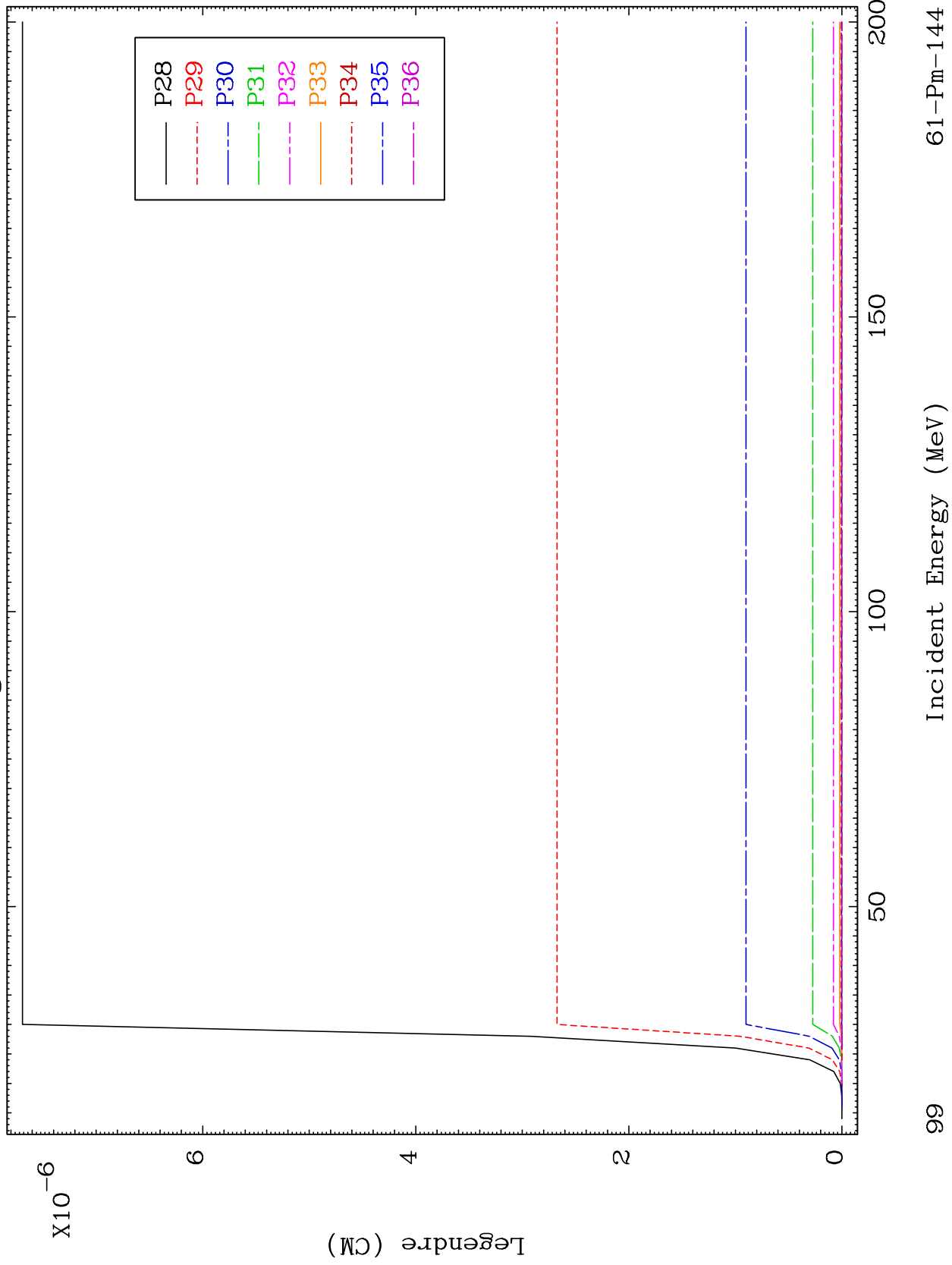
Incident Energy (MeV)

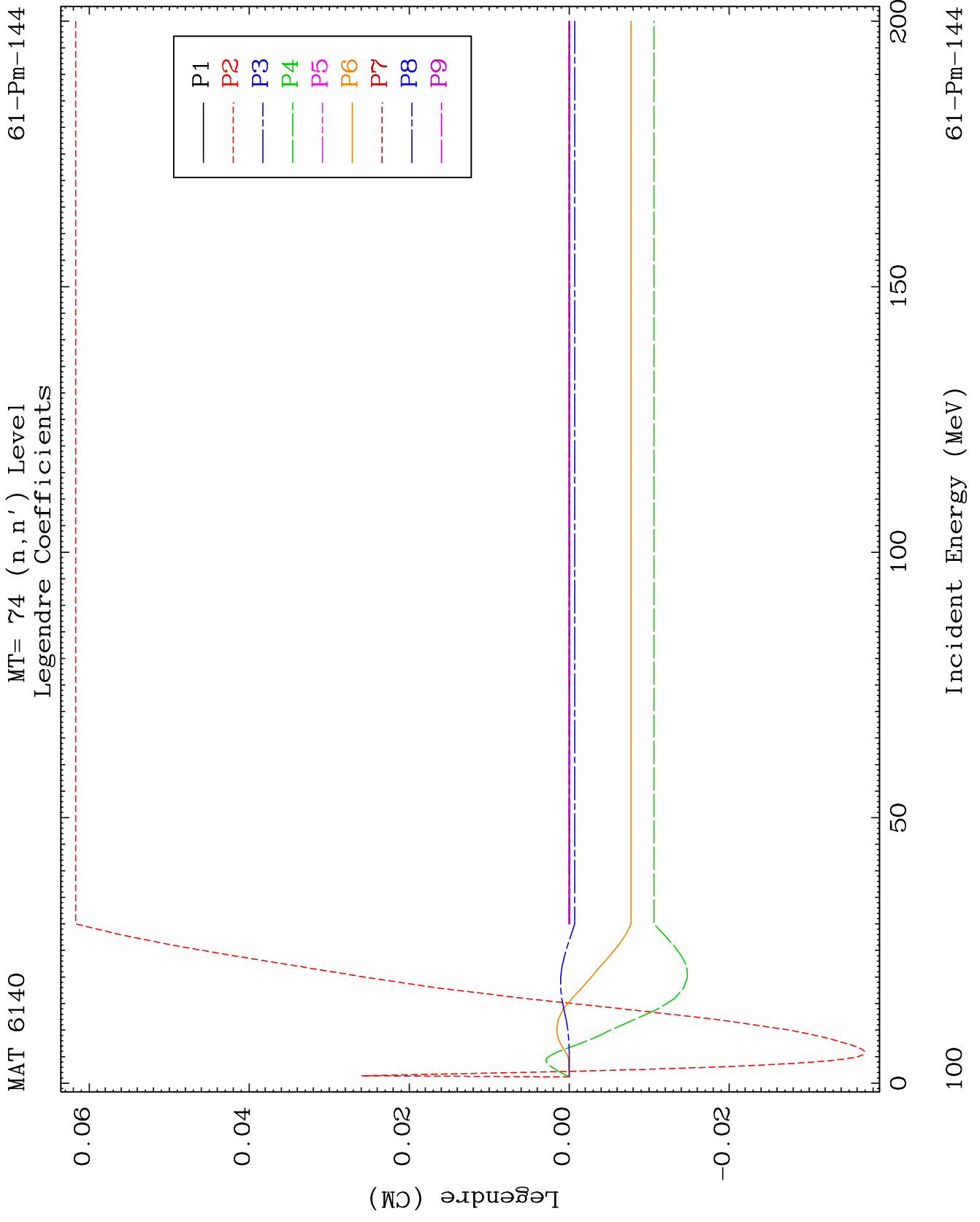
61-Pm-144

MAT 6140

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

61-Pm-144

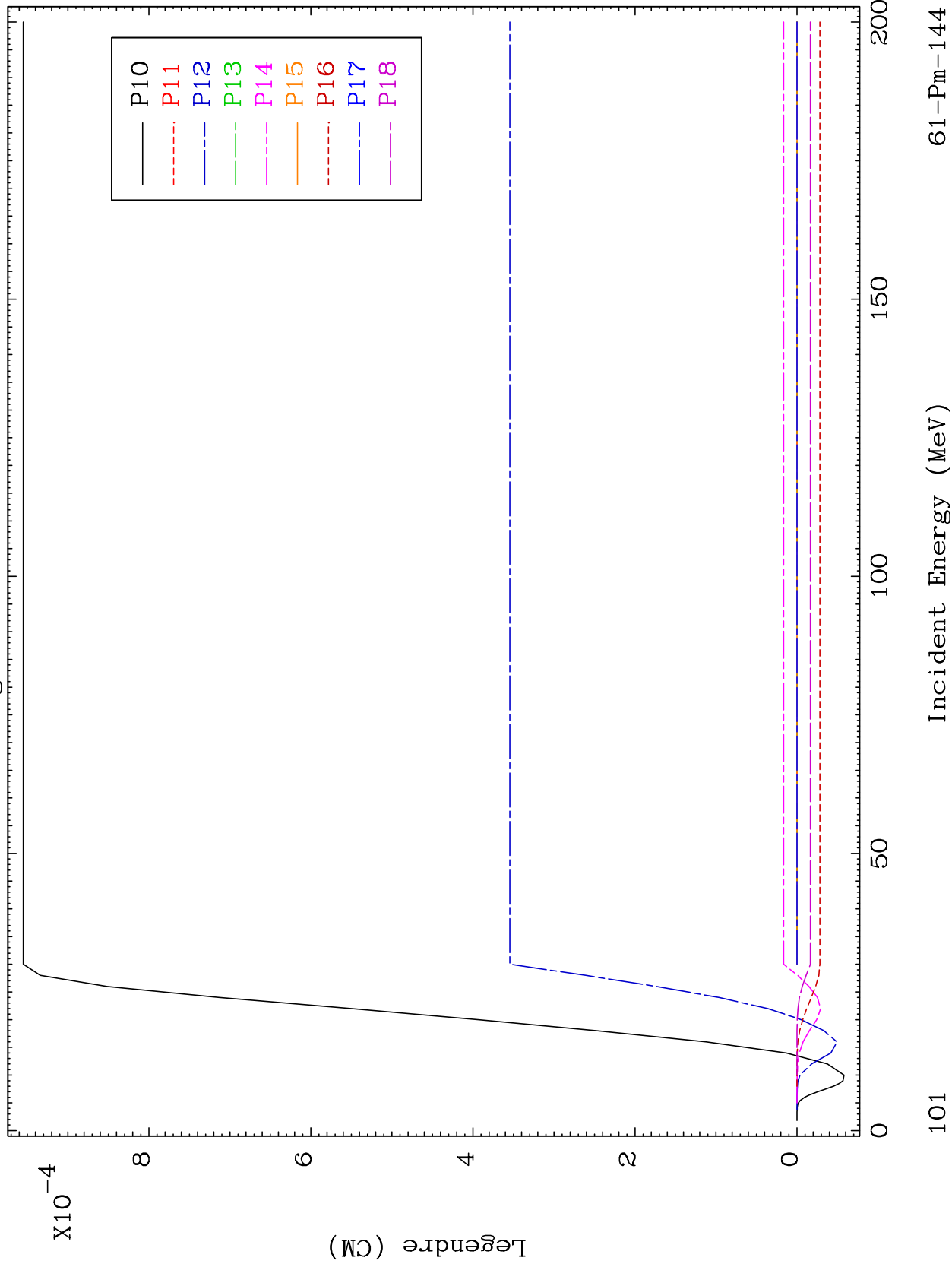




MAT 6140

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

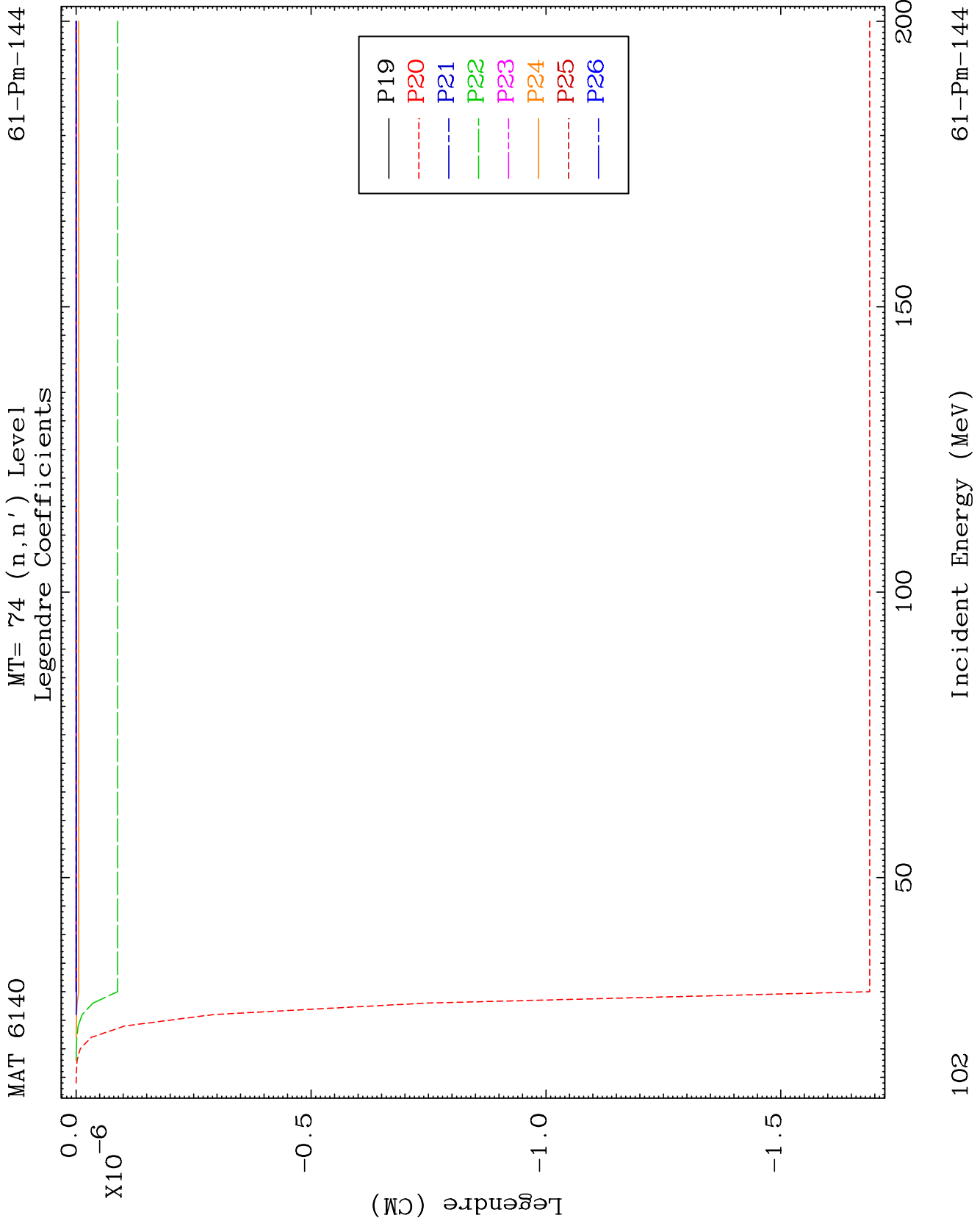
61-Pm-144

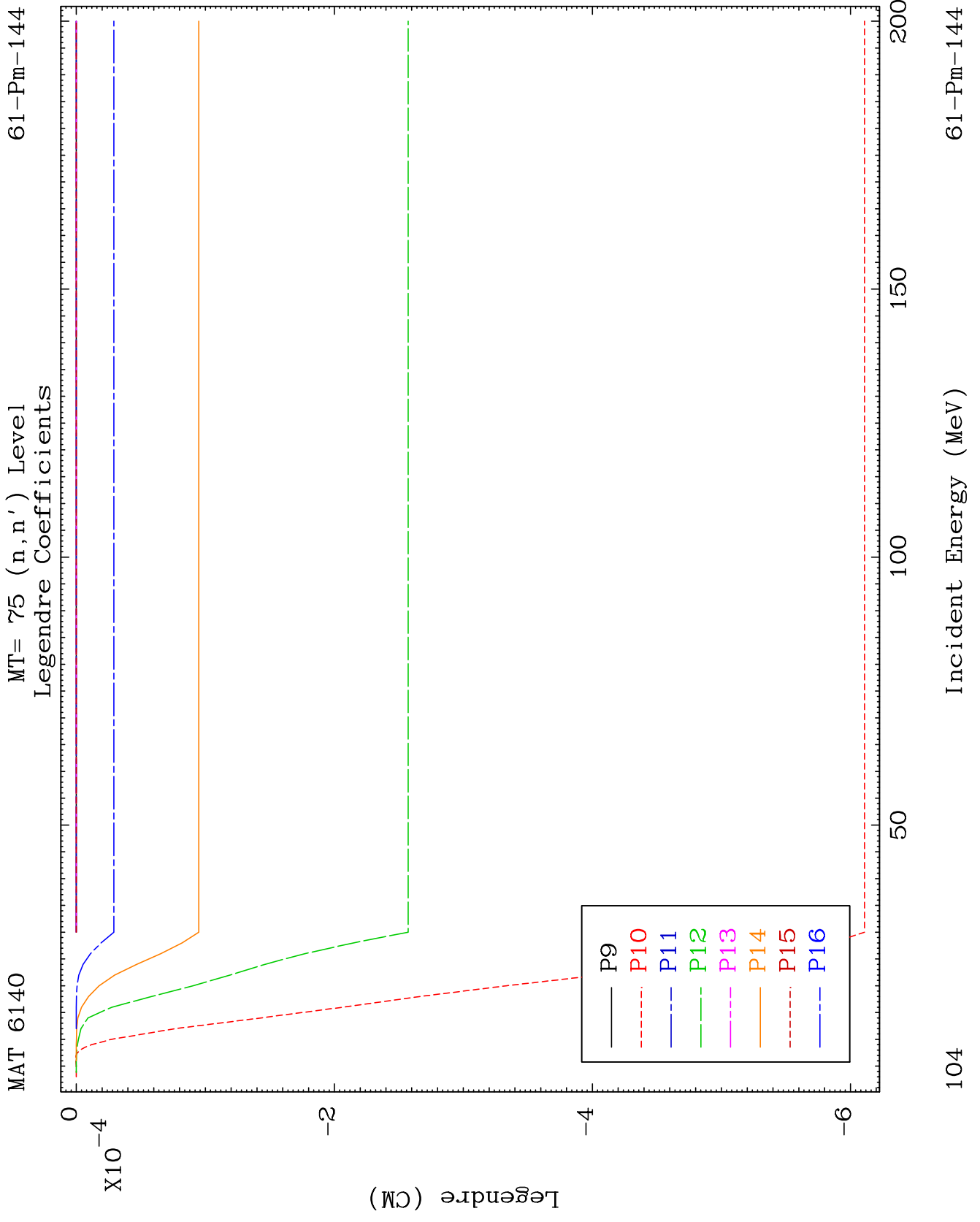


61-Pm-144

Incident Energy (MeV)

101

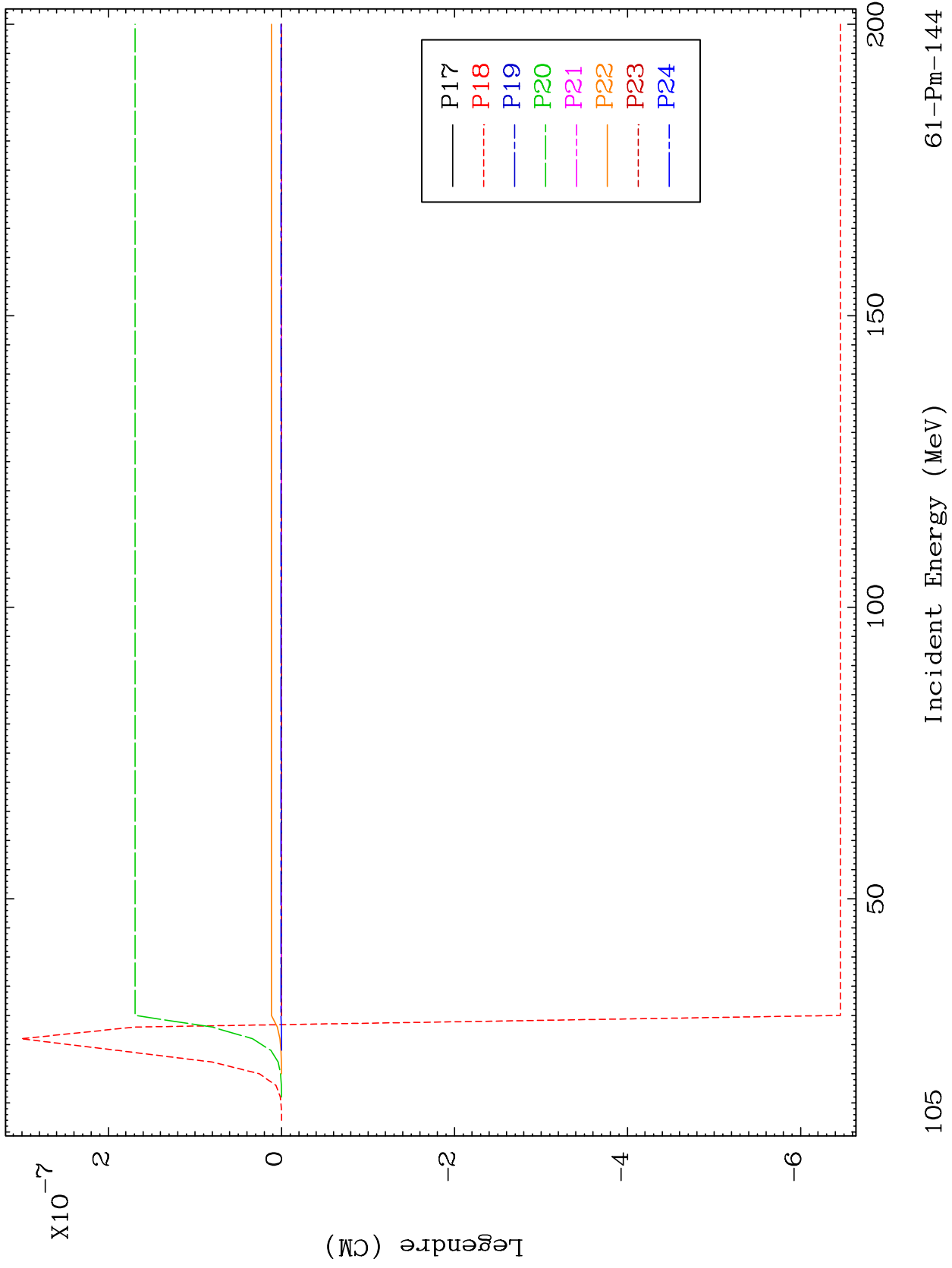




MAT 6140

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

61-Pm-144



105

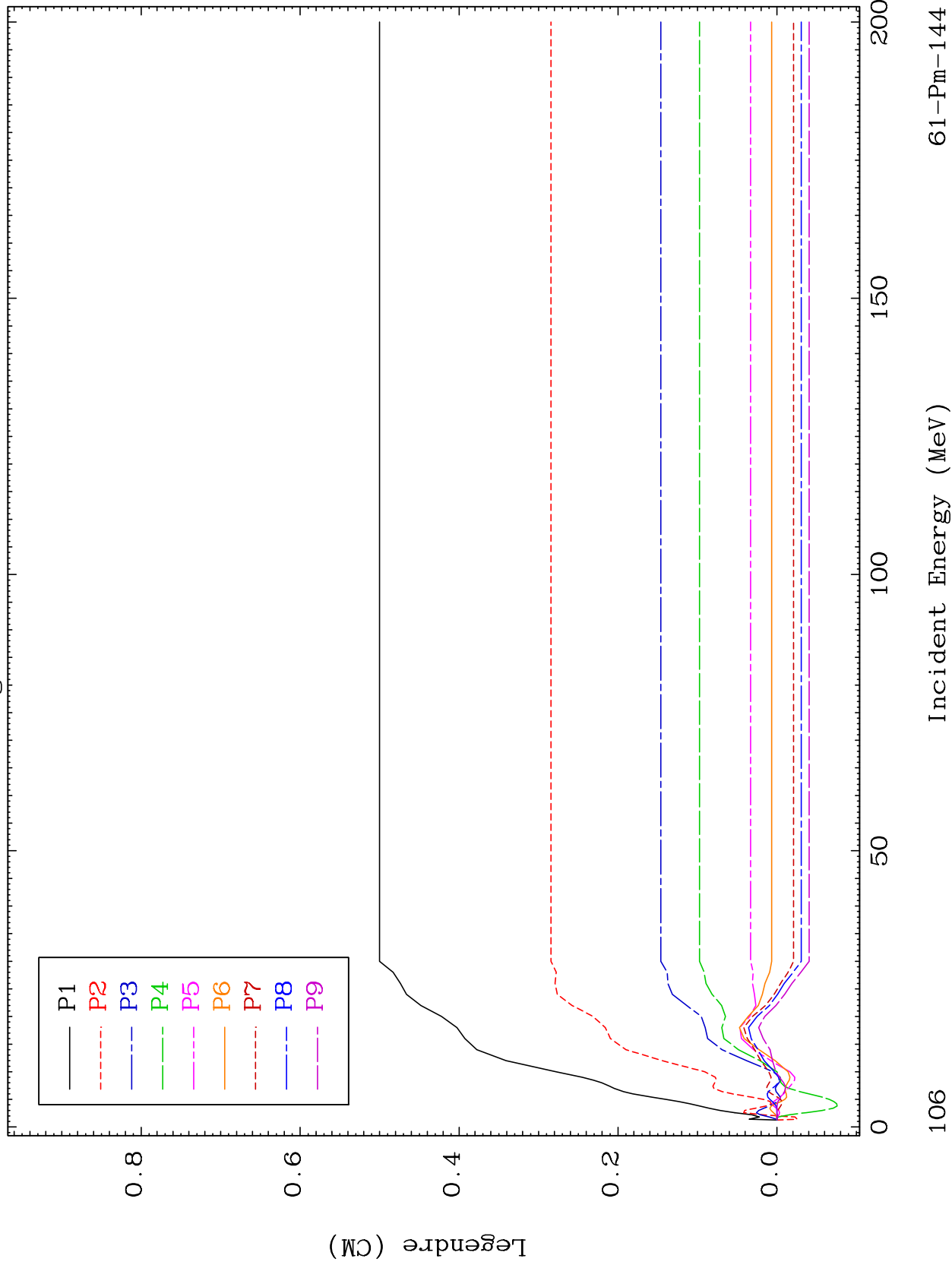
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

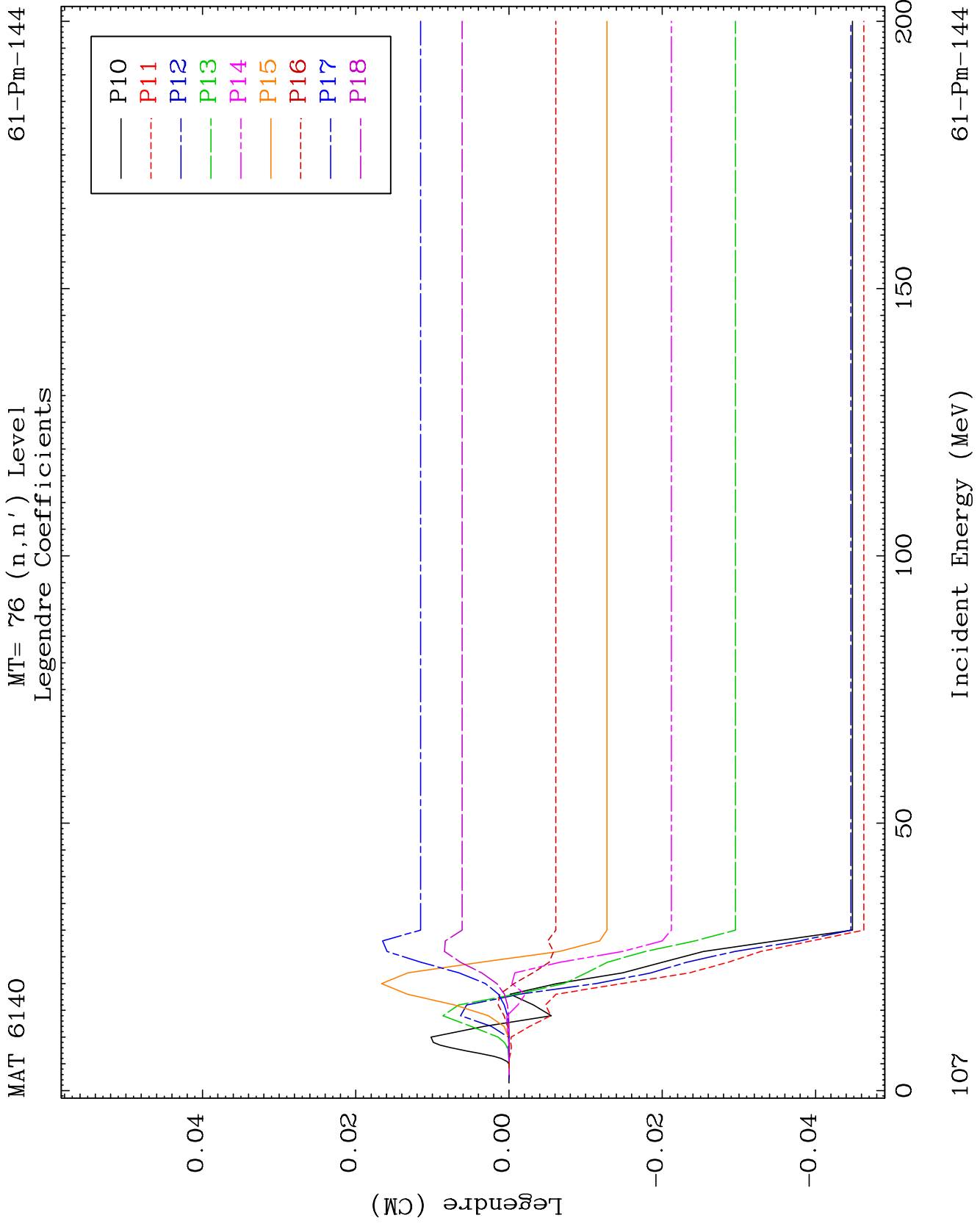
61-Pm-144



61-Pm-144

Incident Energy (MeV)

106



61-Pm-144

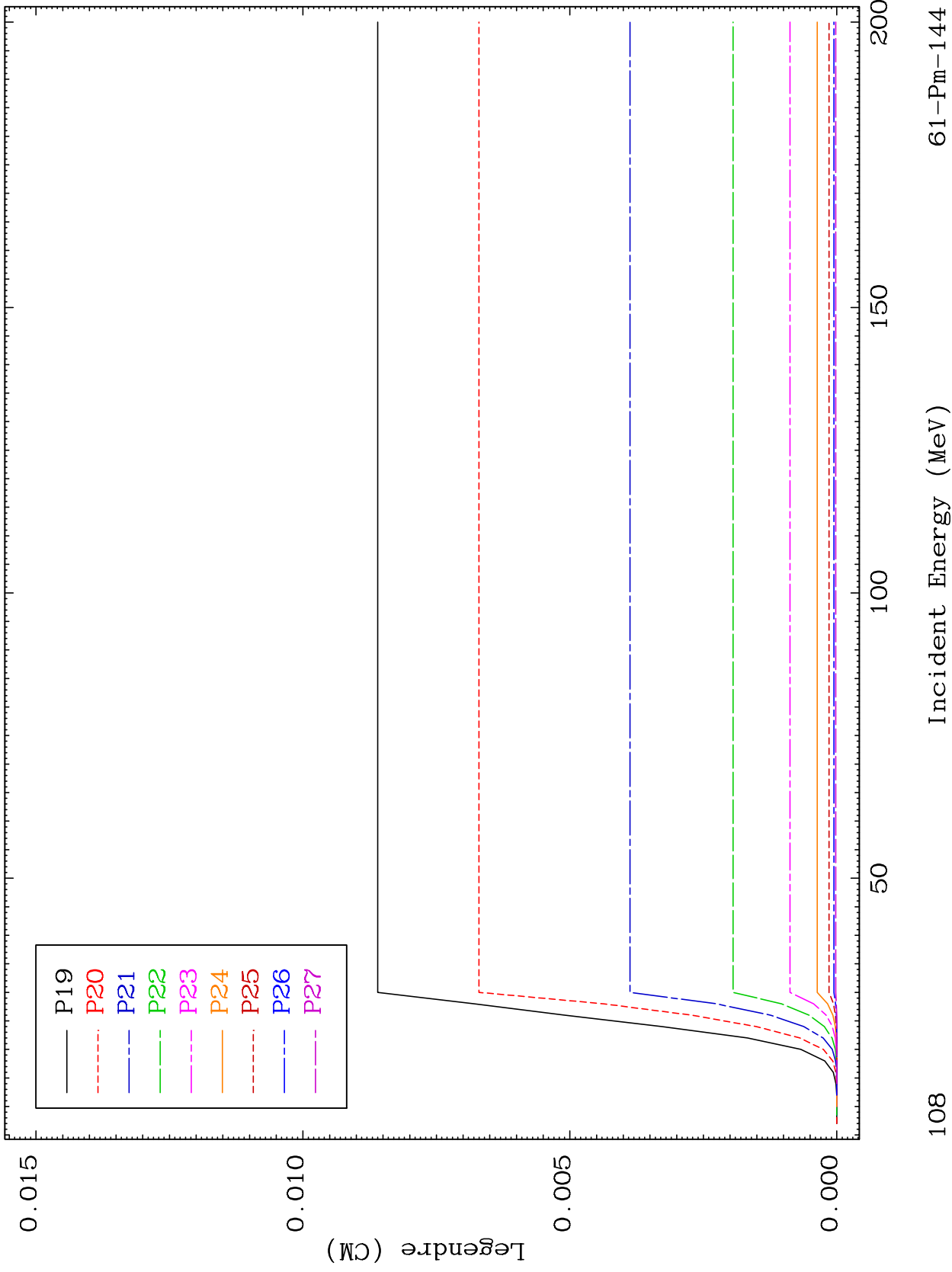
Incident Energy (MeV)

107

MAT 6140

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

61-Pm-144



108

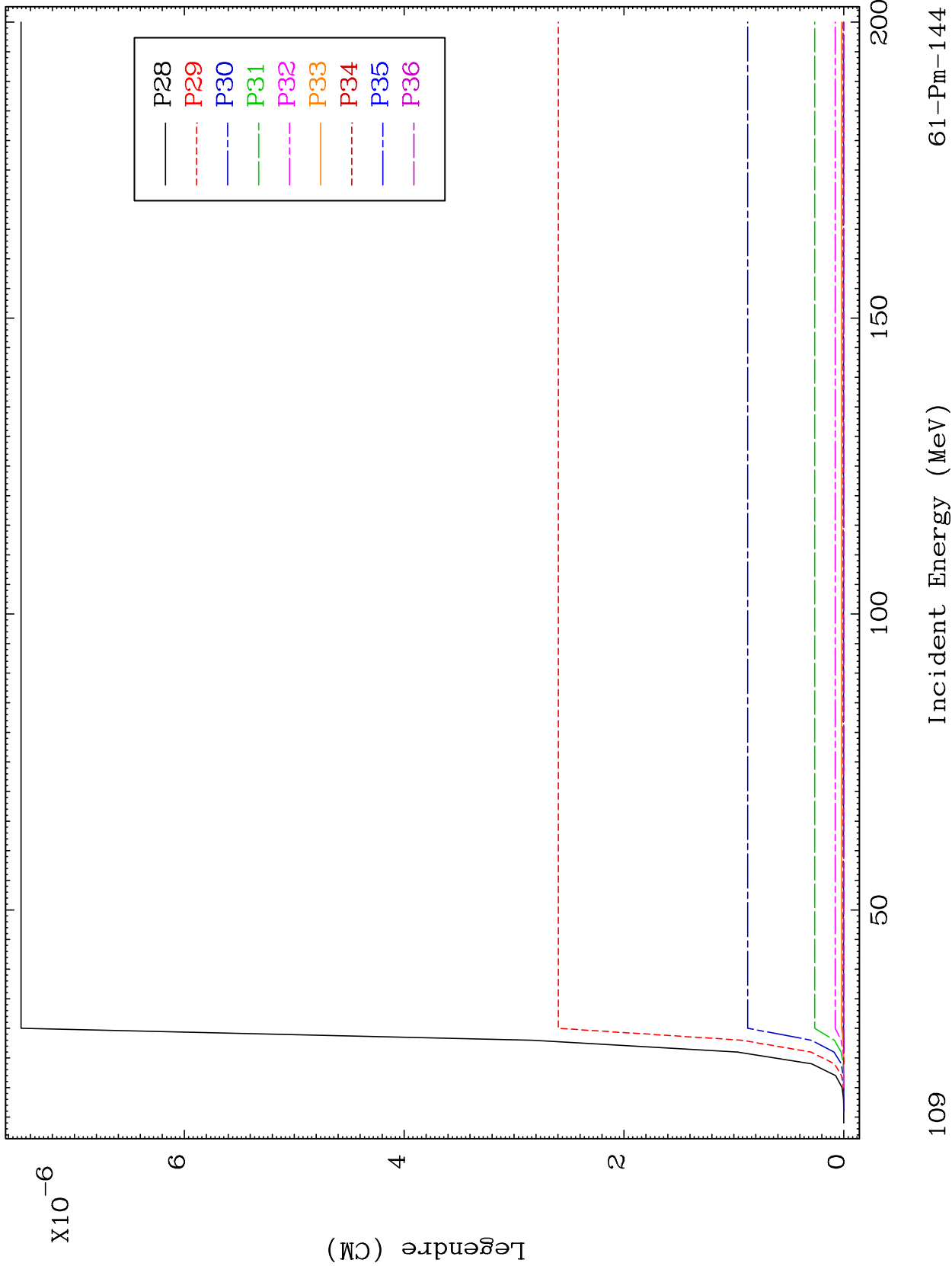
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

61-Pm-144



109

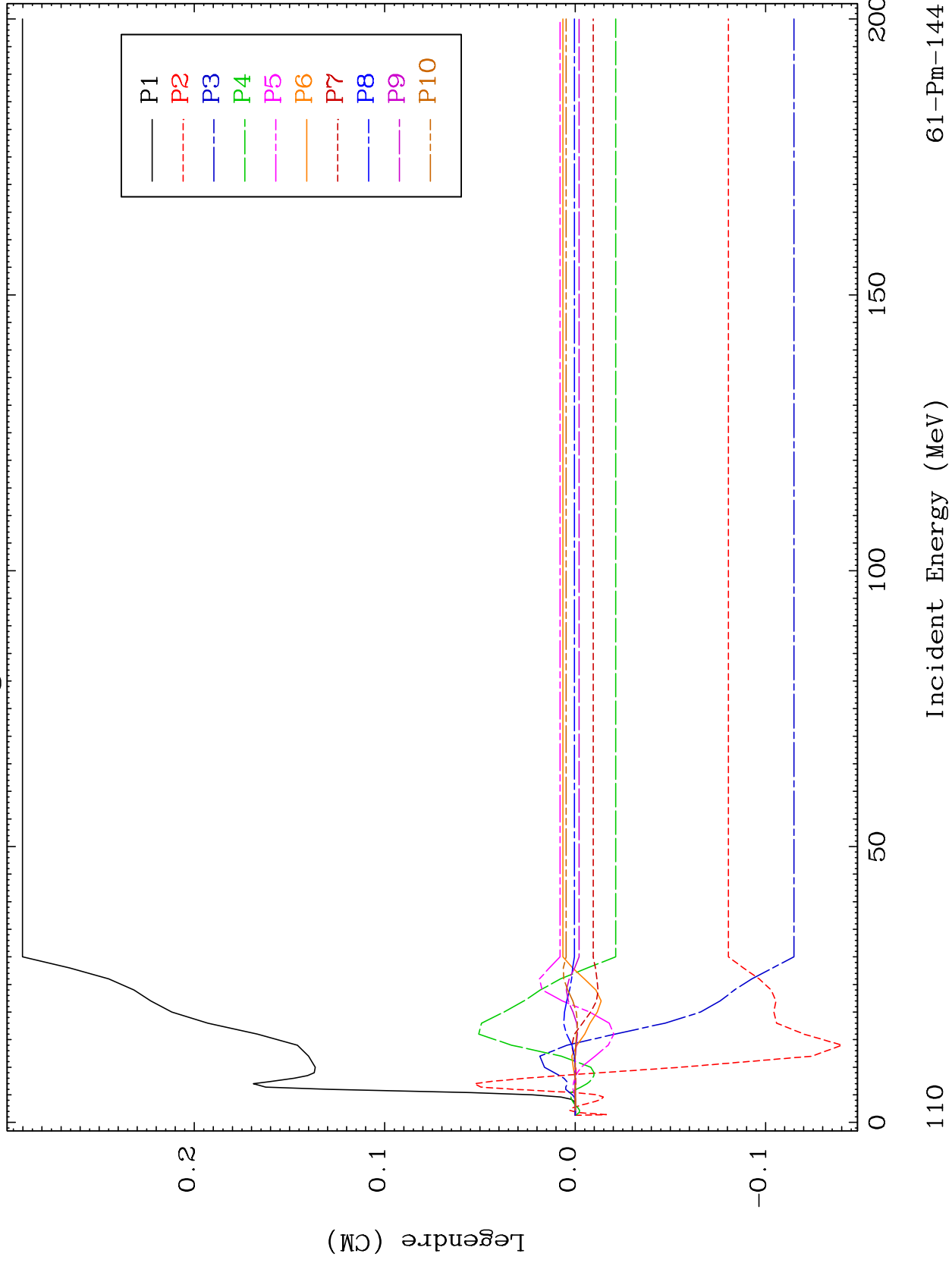
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

61-Pm-144



61-Pm-144

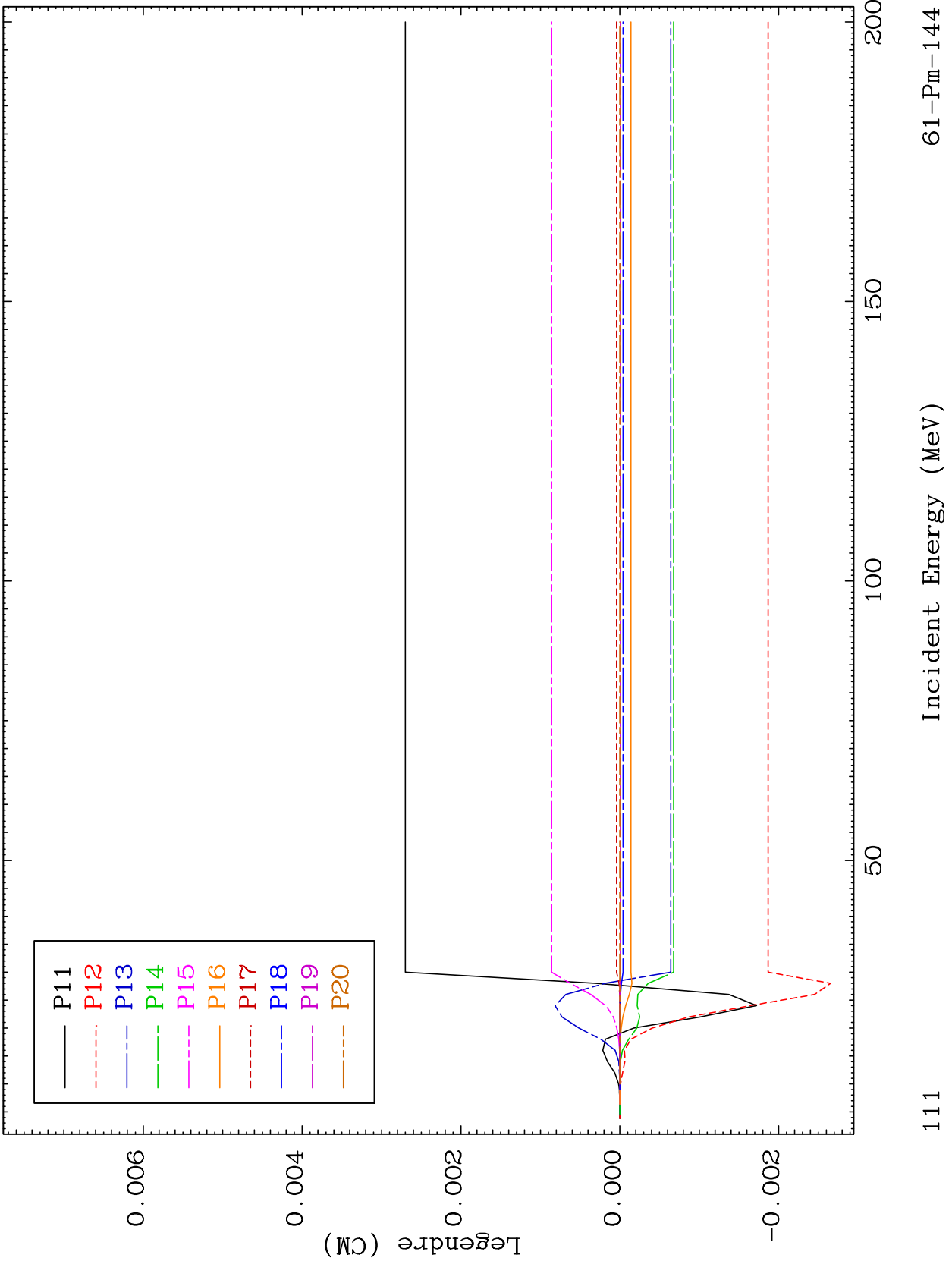
Incident Energy (MeV)

110

MAT 6140

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

61-Pm-144



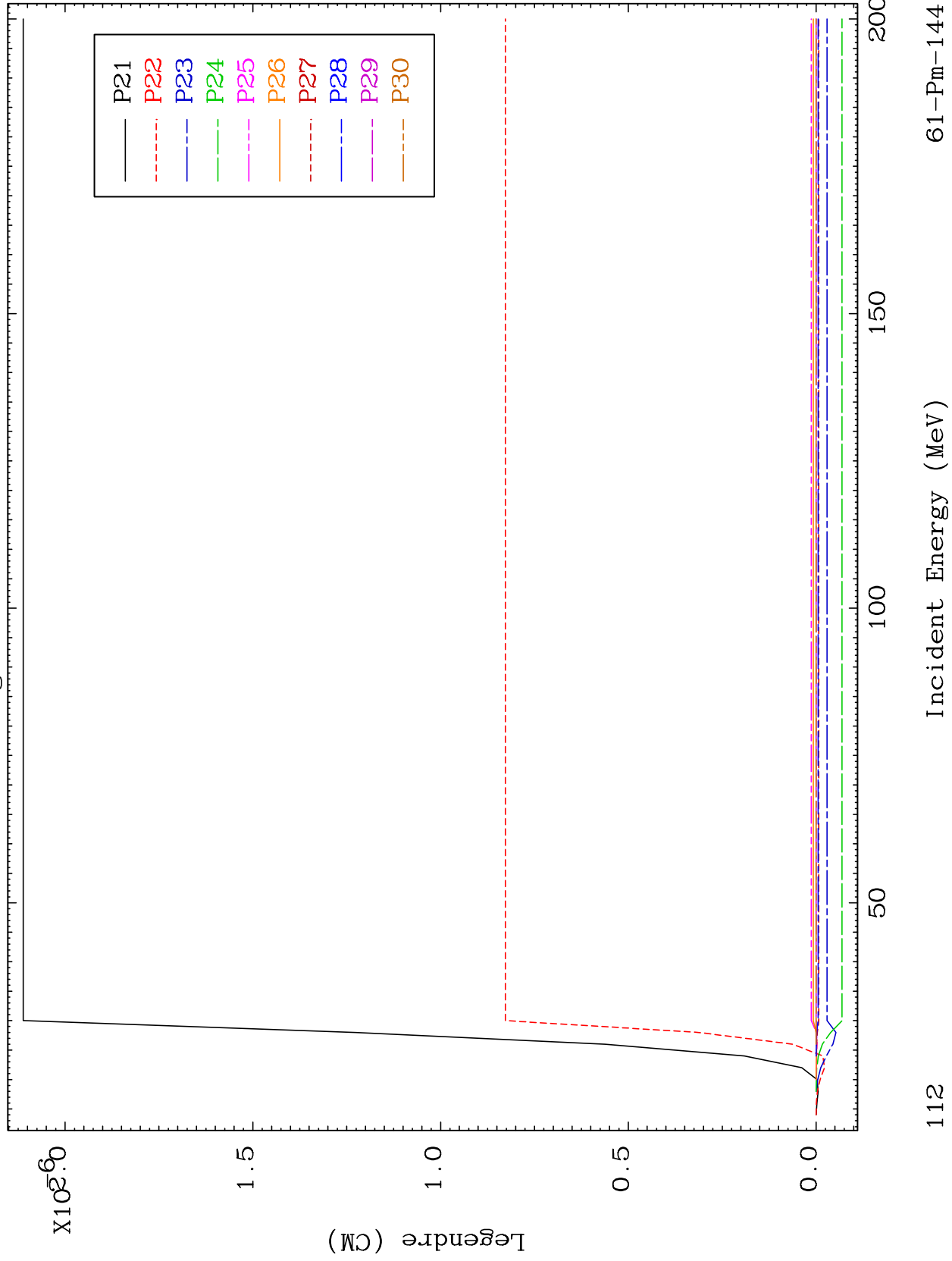
111

61-Pm-144

MAT 6140

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

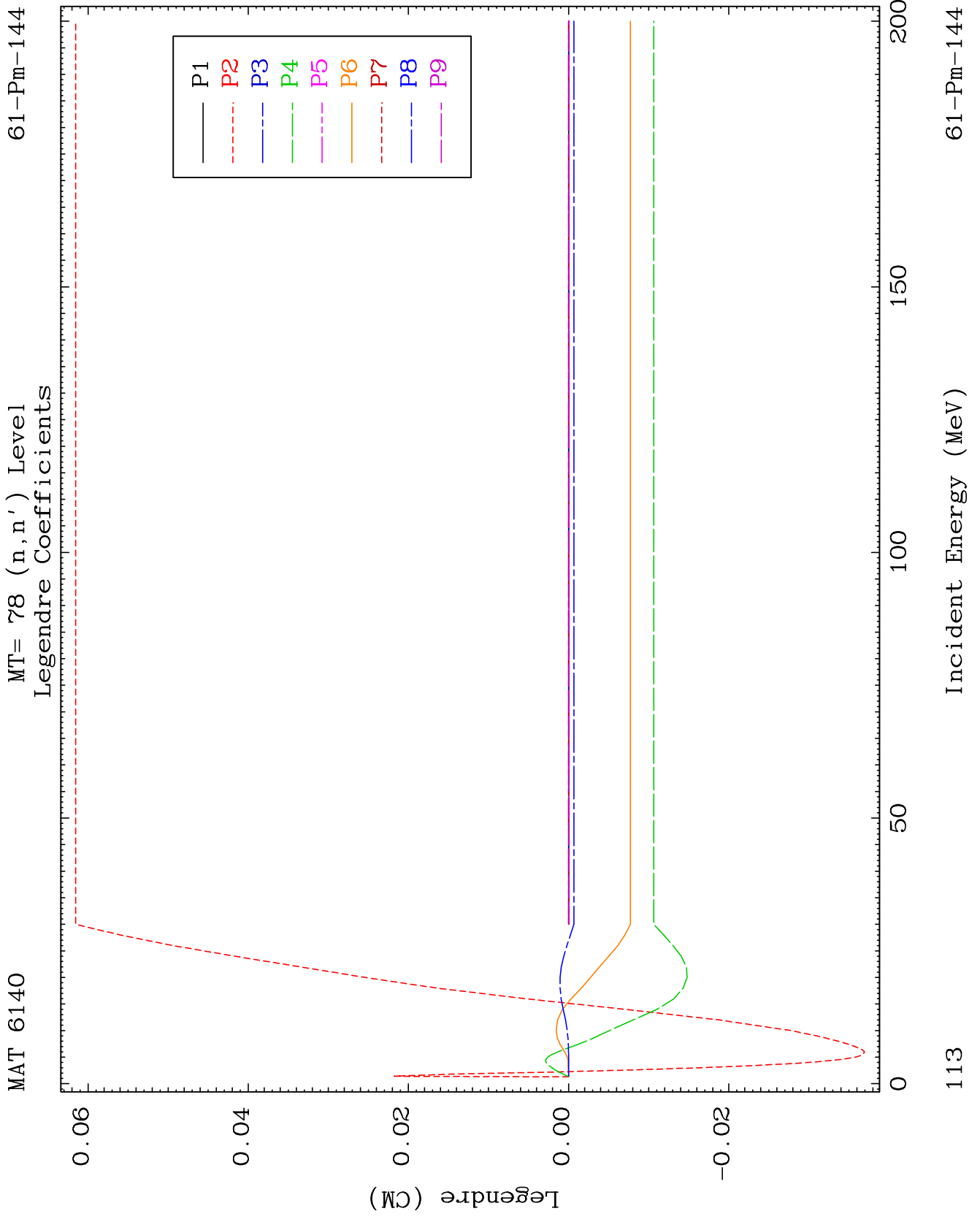
61-Pm-144



112

Incident Energy (MeV)

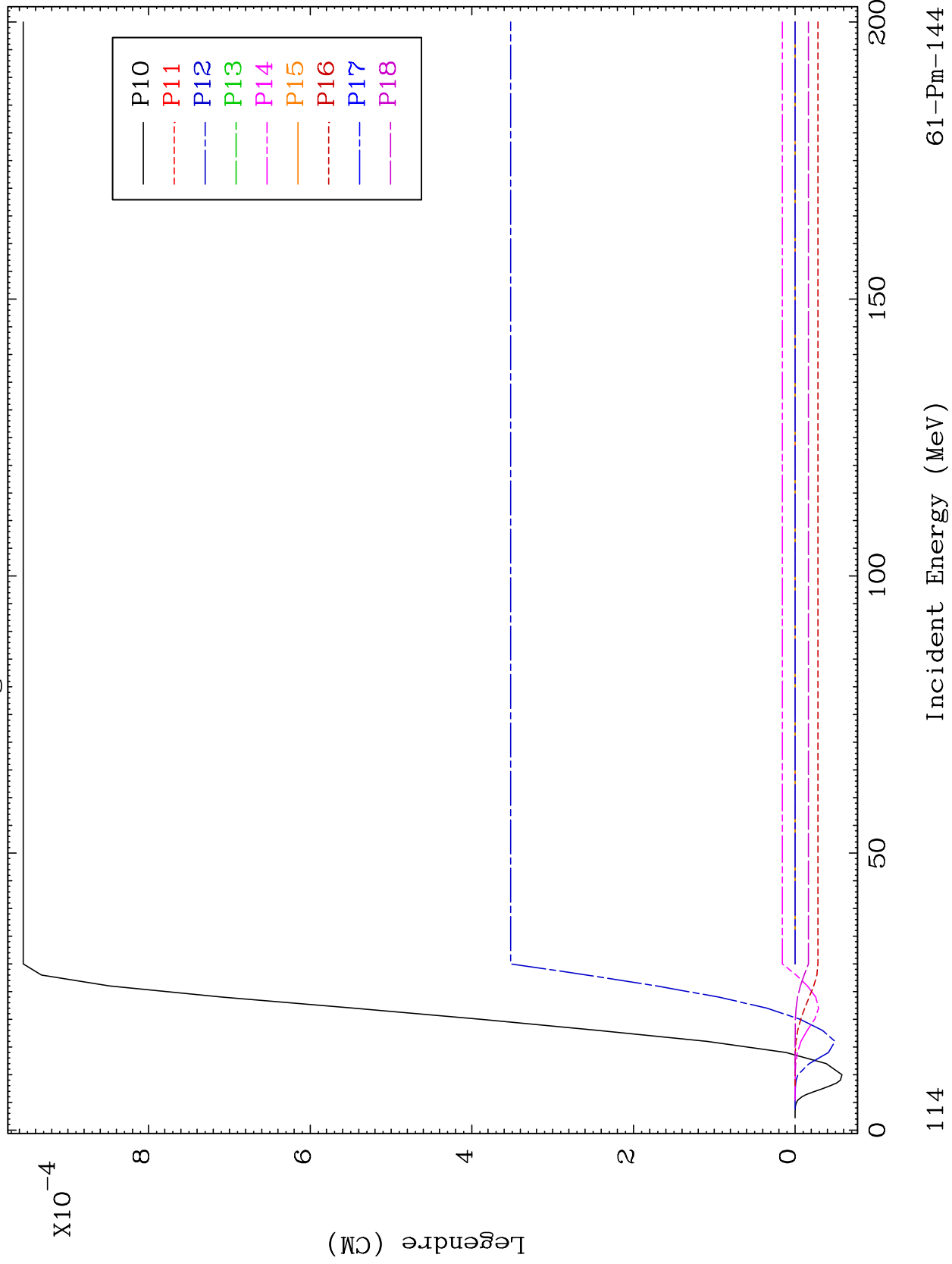
61-Pm-144



MAT 6140

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

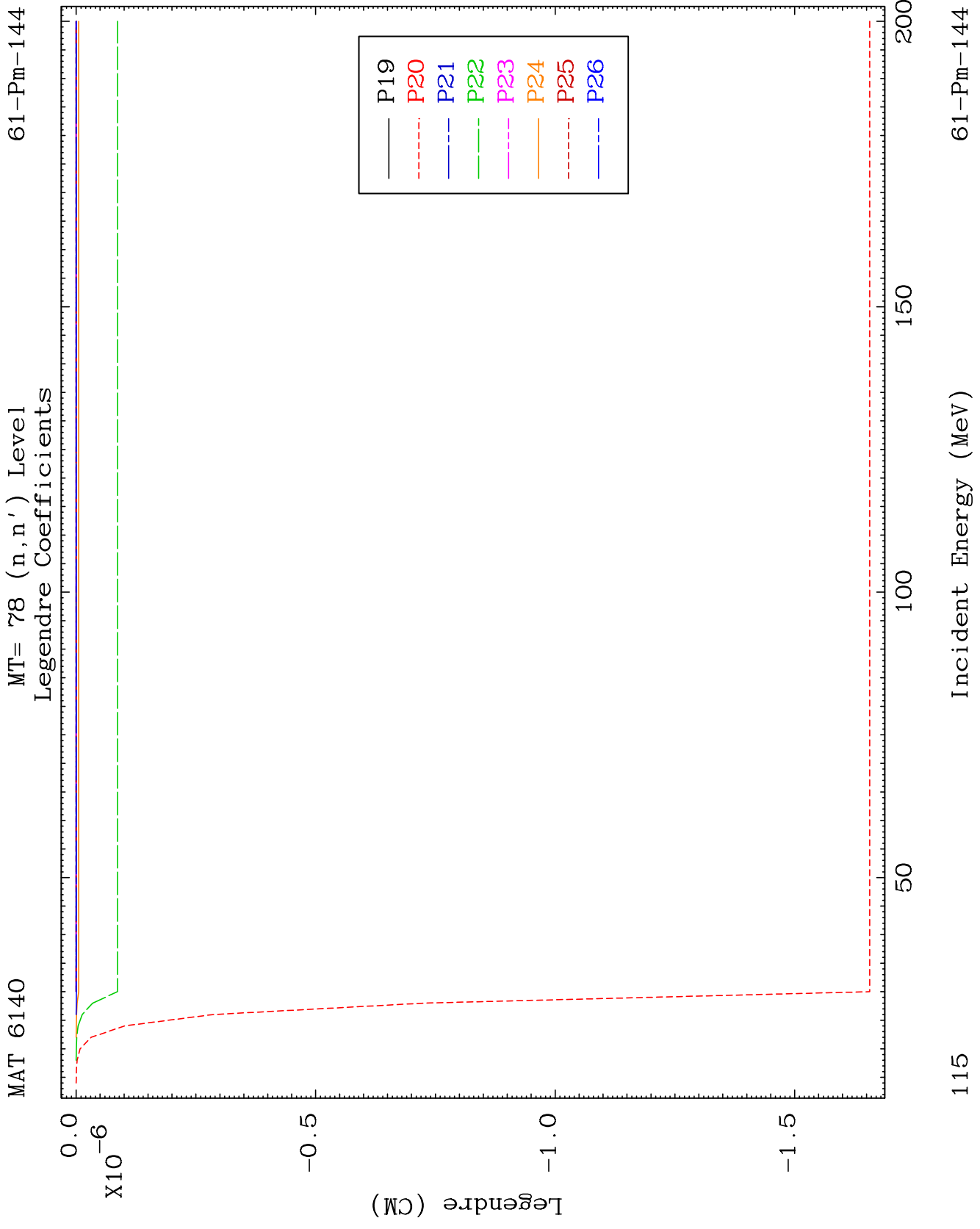
61-Pm-144

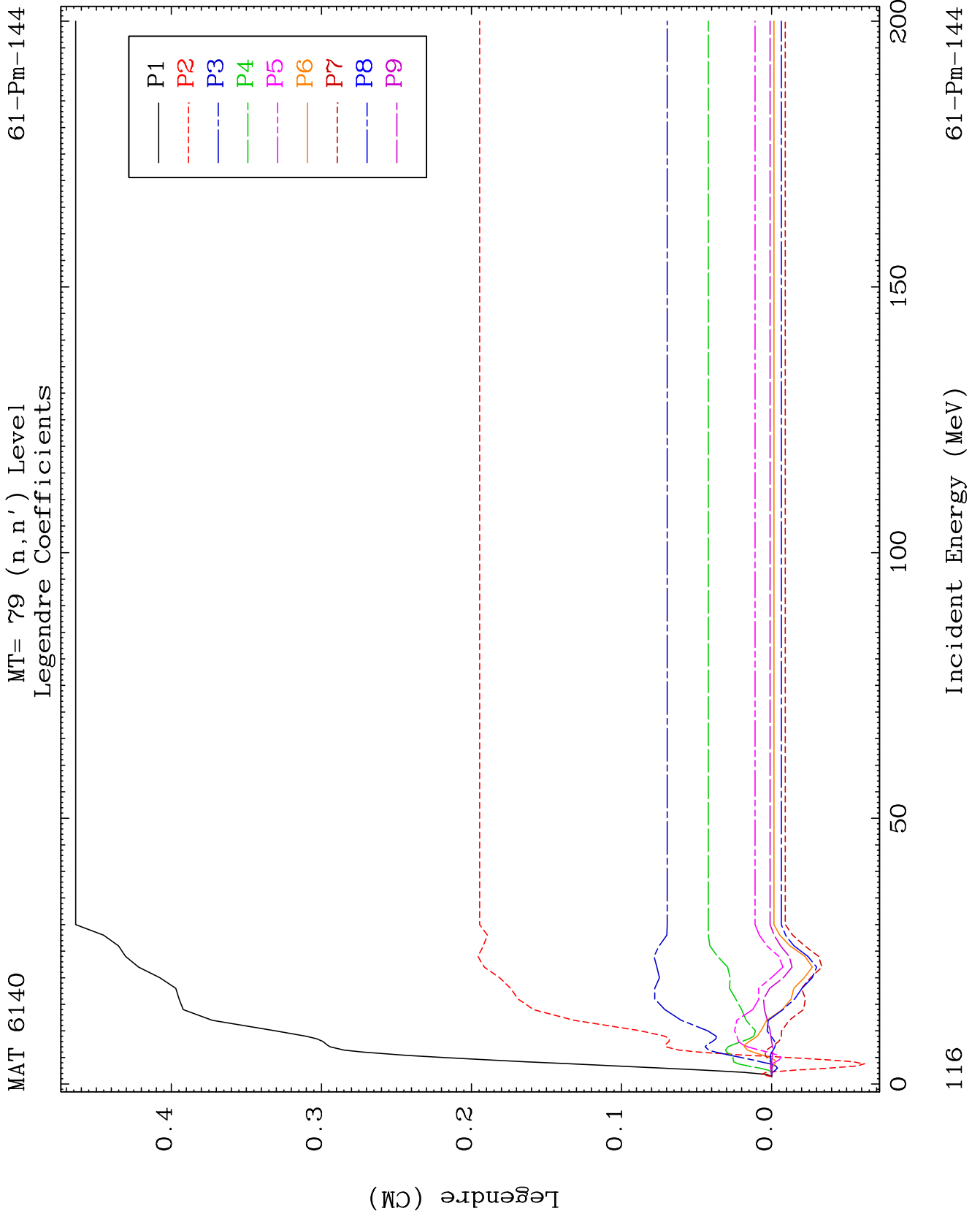


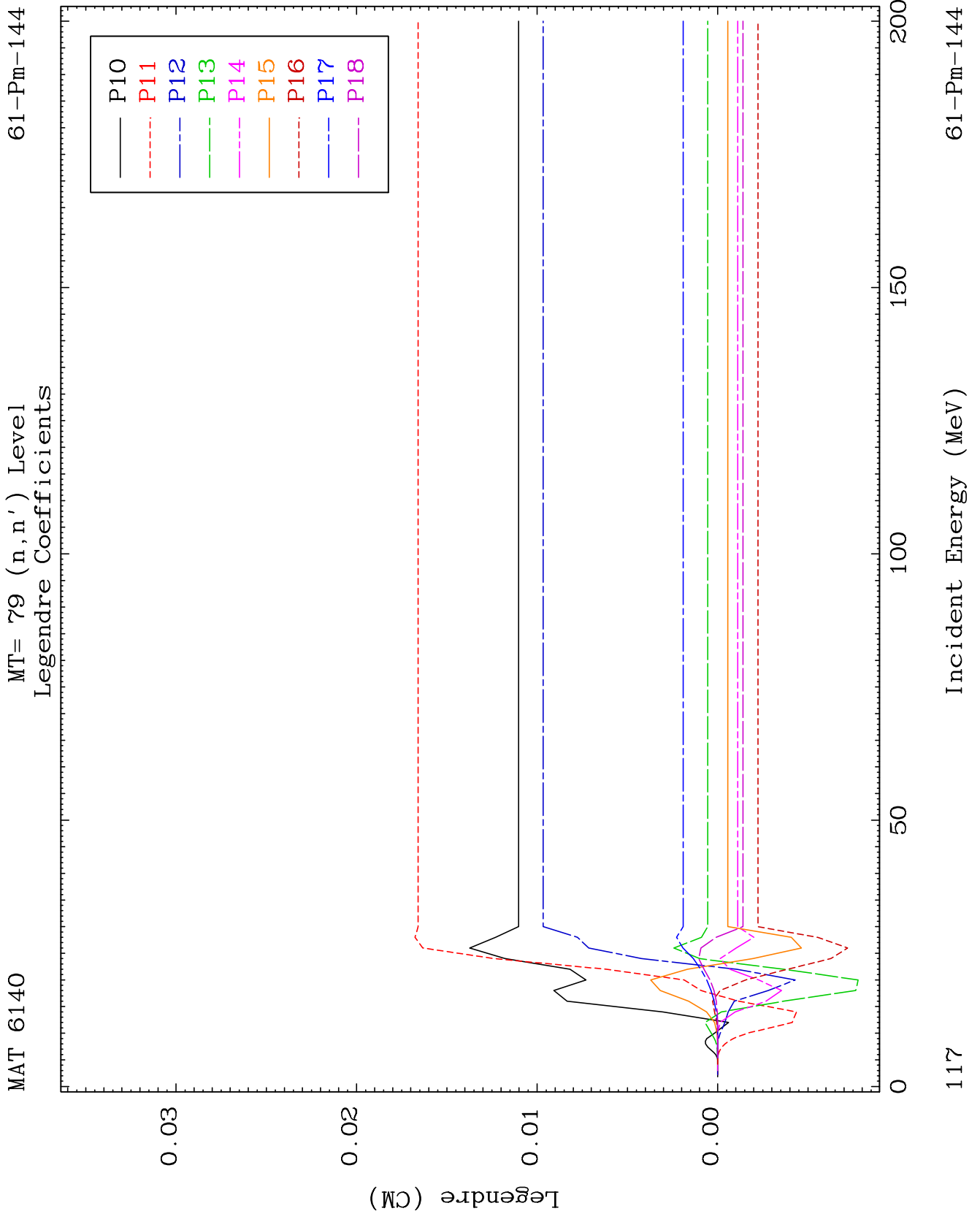
61-Pm-144

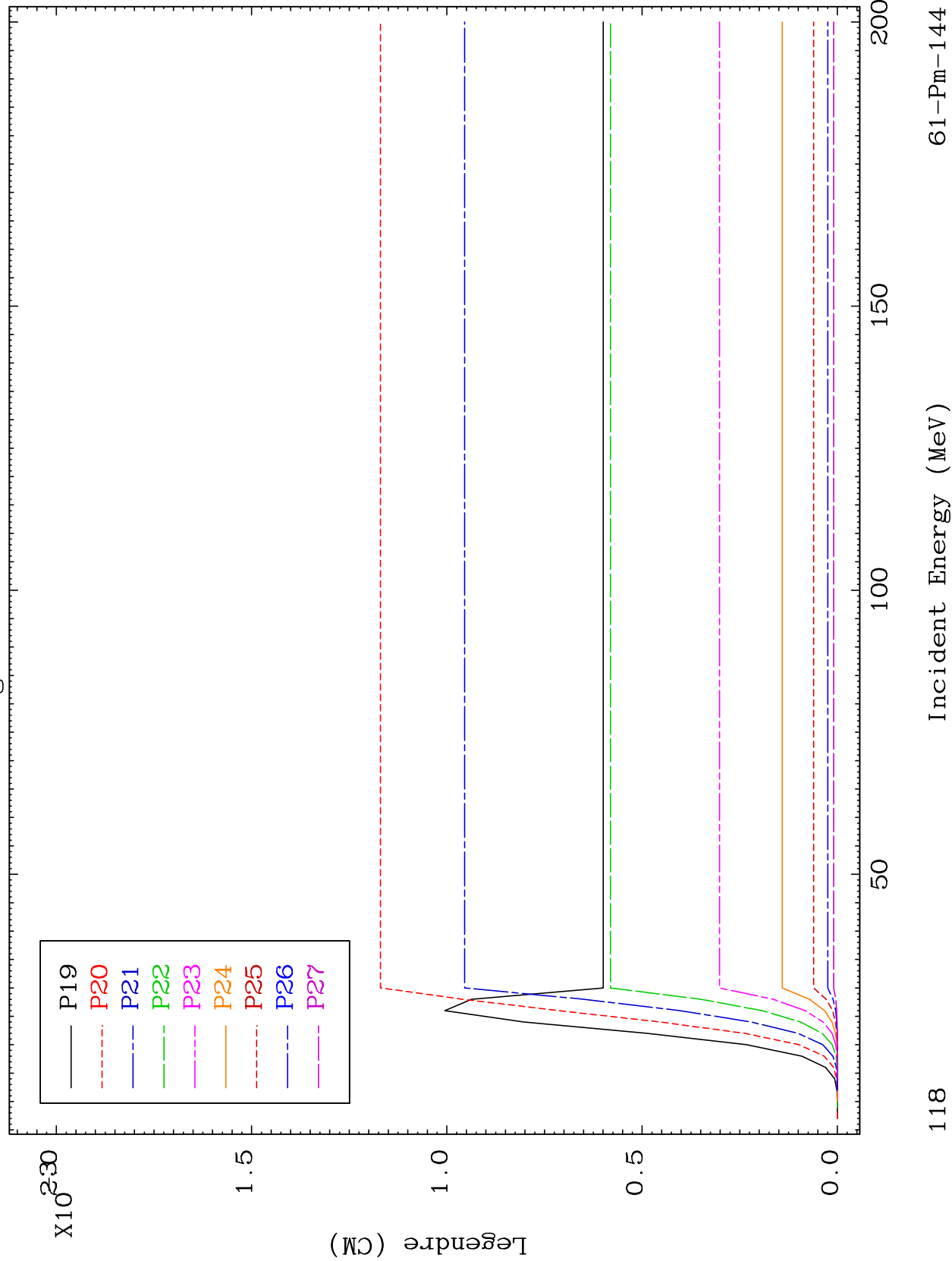
Incident Energy (MeV)

114





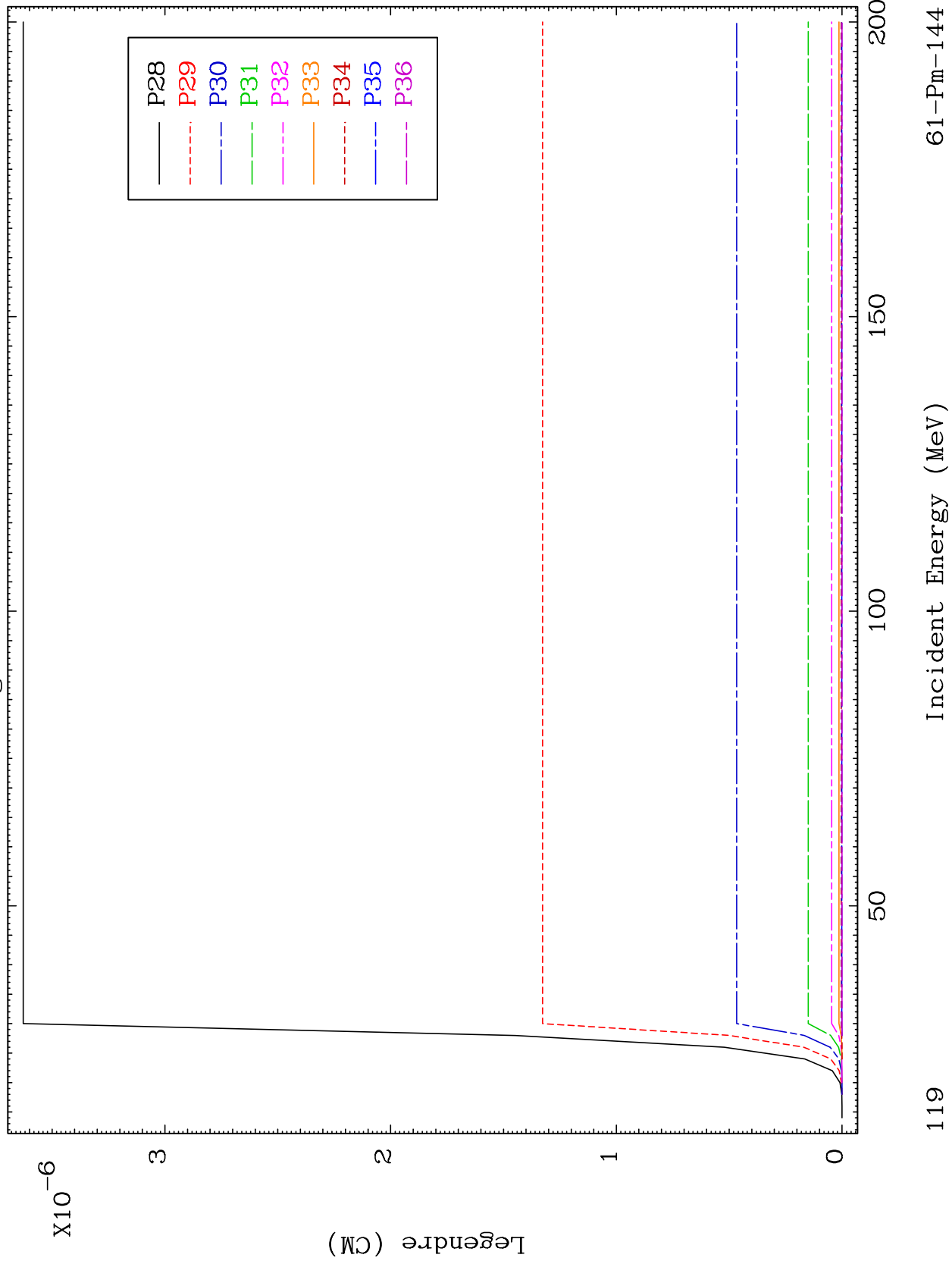




MAT 6140

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

61-Pm-144



119

Incident Energy (MeV)

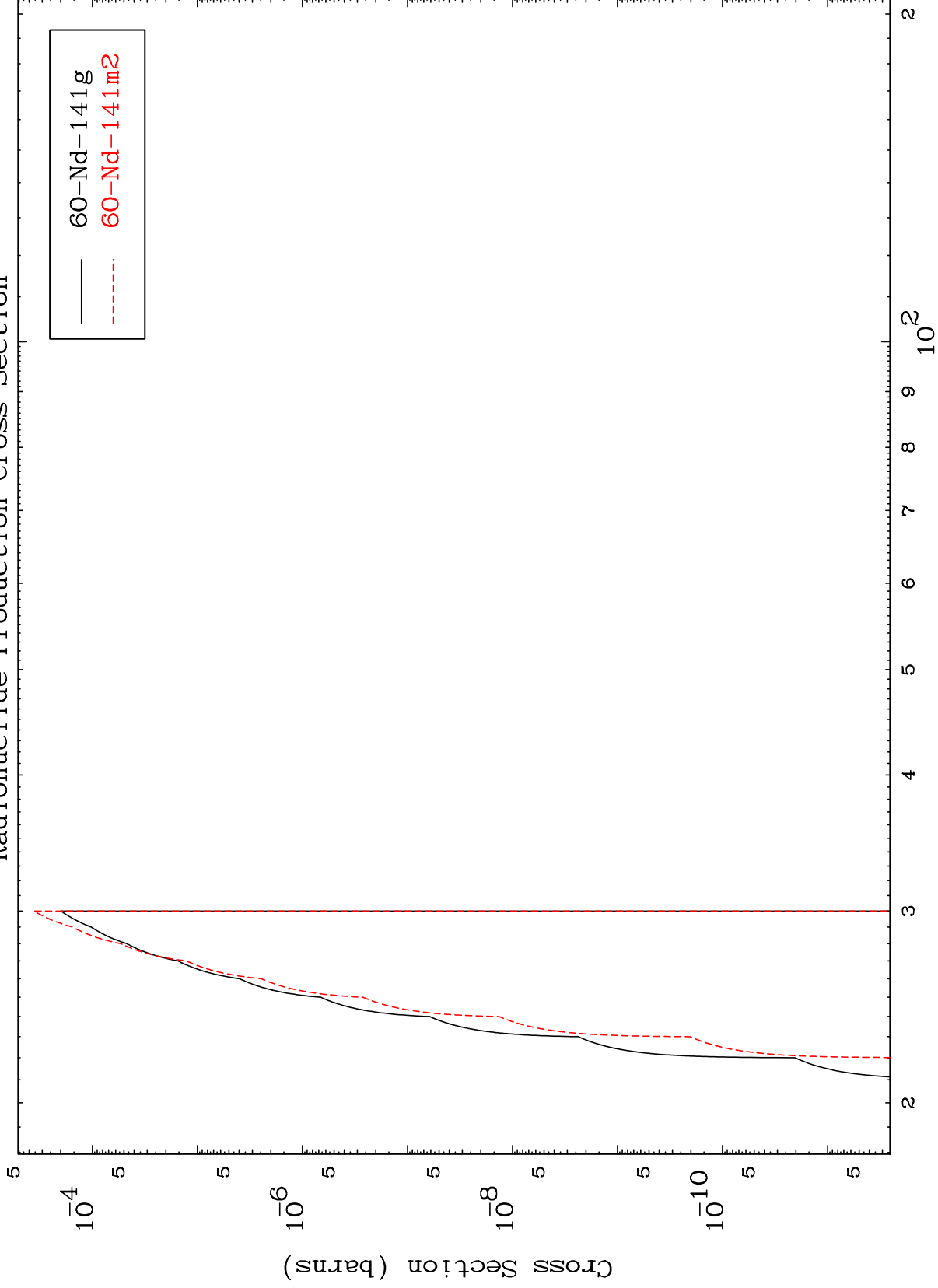
61-Pm-144

MAT 6140

(n,2n) d

61-Pm-144

Radionuclide Production Cross Section



120

Incident Energy (MeV)

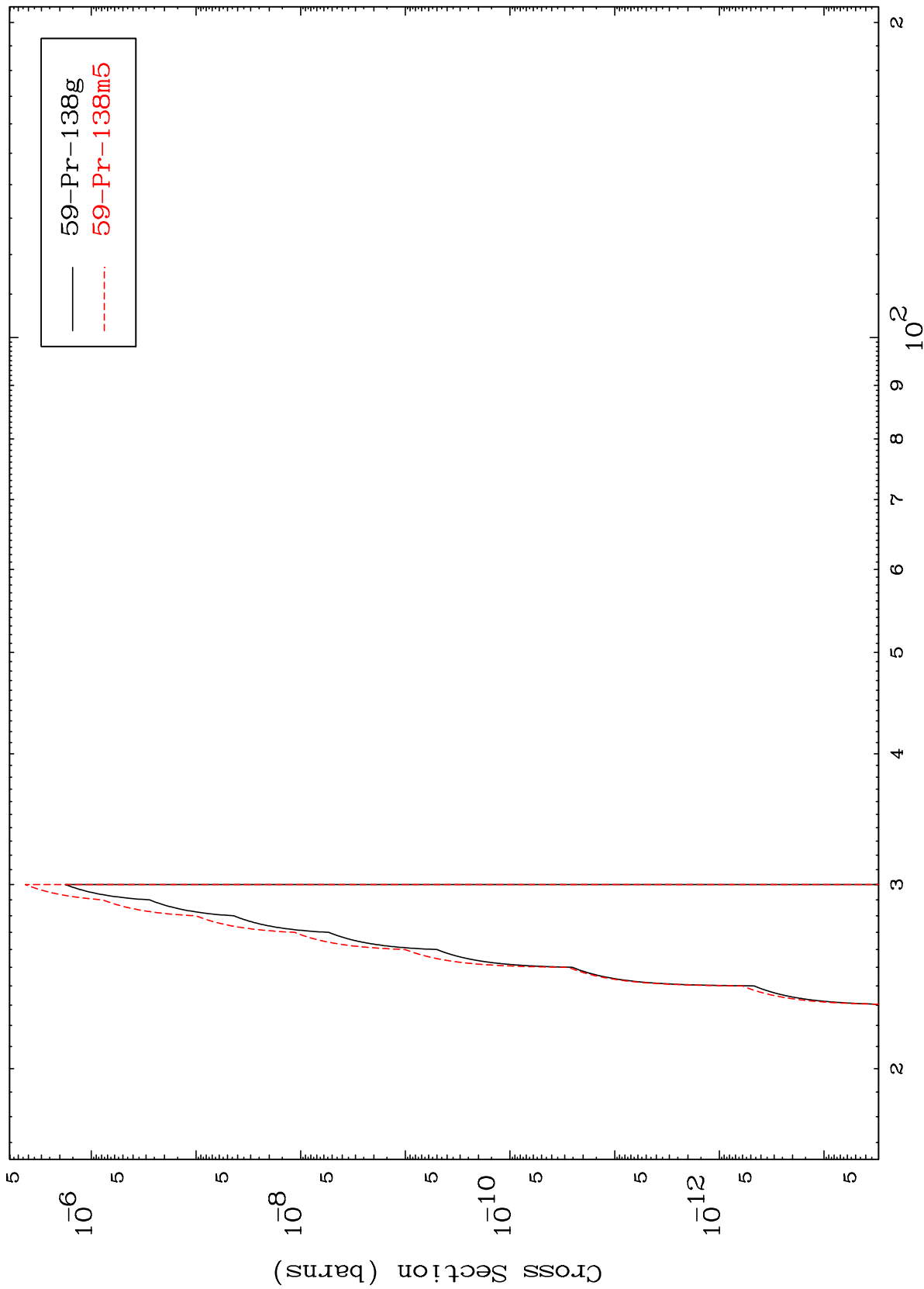
61-Pm-144

MAT 6140

$(n,3n) \alpha$

61-Pm-144

Radionuclide Production Cross Section



121

Incident Energy (MeV)

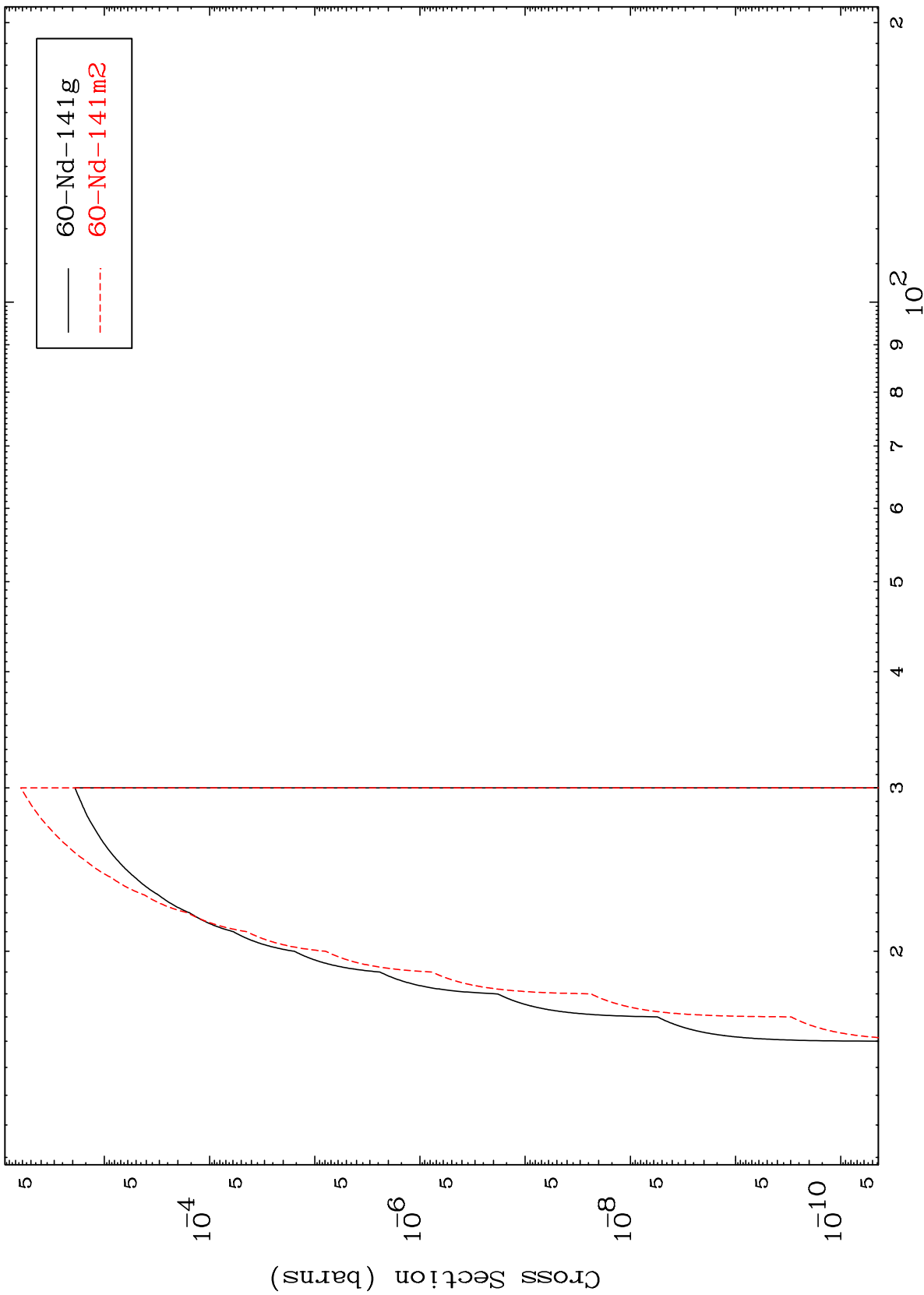
61-Pm-144

MAT 6140

(n,n') t

61-Pm-144

Radionuclide Production Cross Section



122

Incident Energy (MeV)

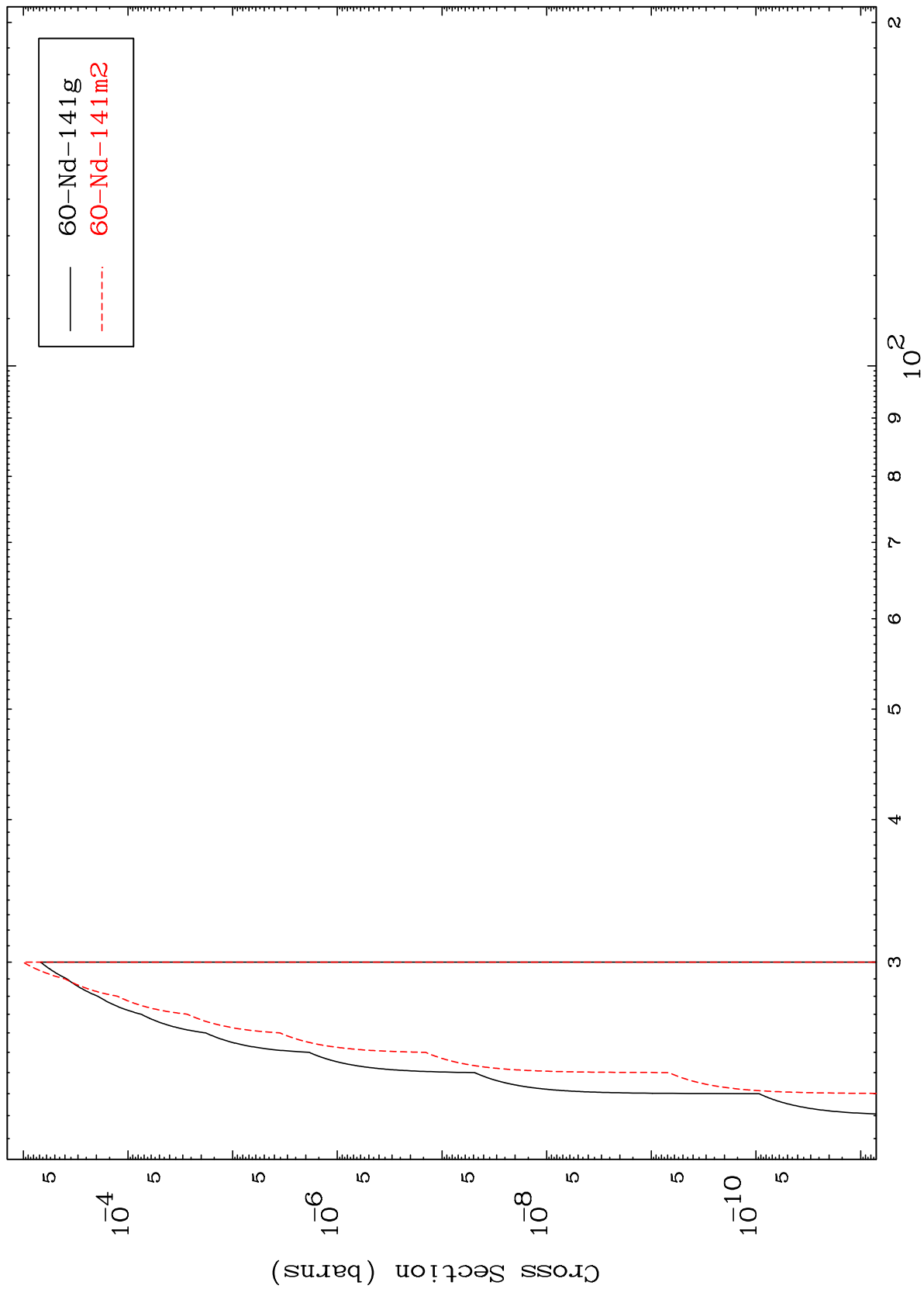
61-Pm-144

MAT 6140

(n,3n) p

61-Pm-144

Radionuclide Production Cross Section



123

Incident Energy (MeV)

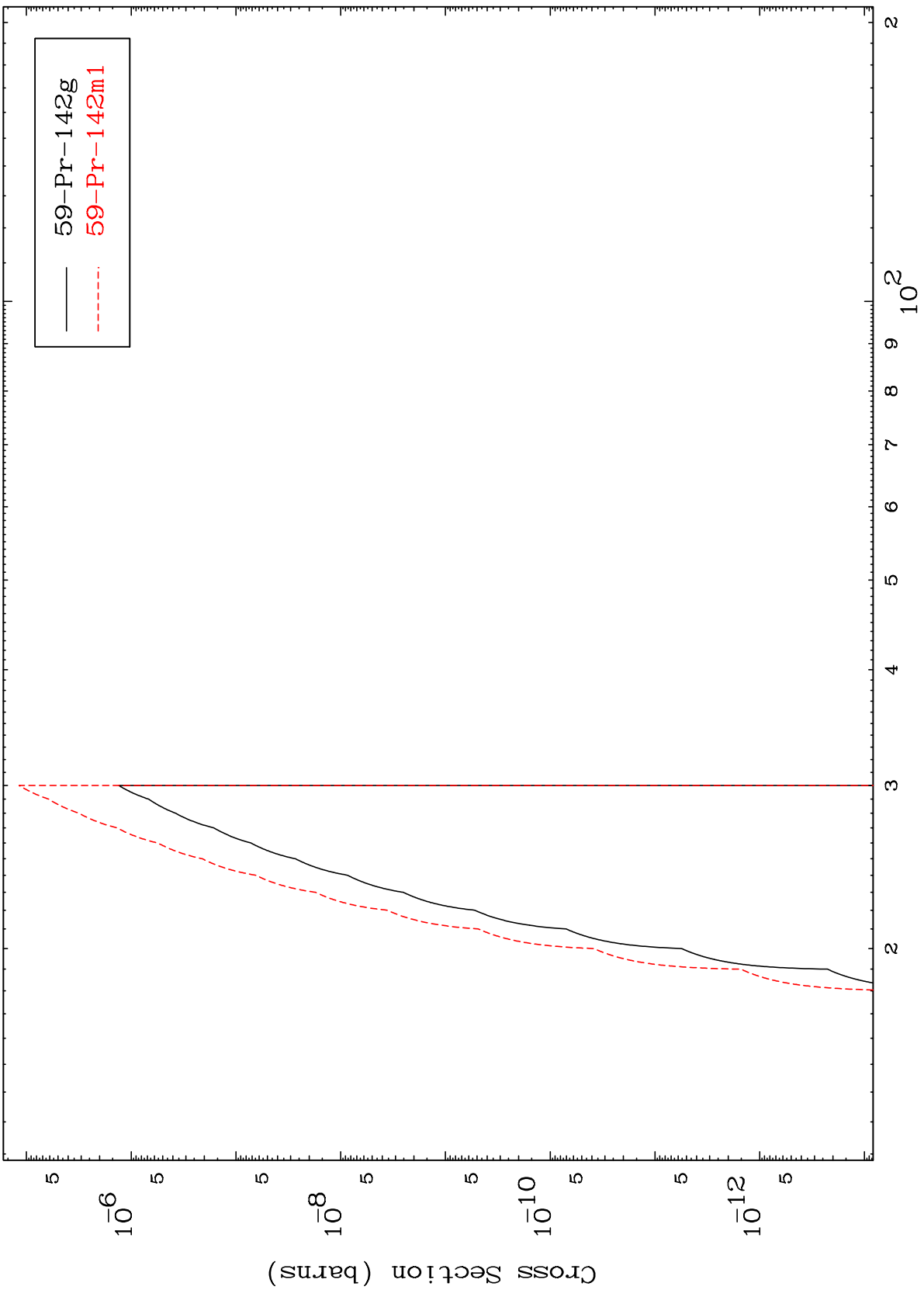
61-Pm-144

MAT 6140

(n,2n) p

61-Pm-144

Radionuclide Production Cross Section



59-Pr-142g
59-Pr-142m1

124

Incident Energy (MeV)

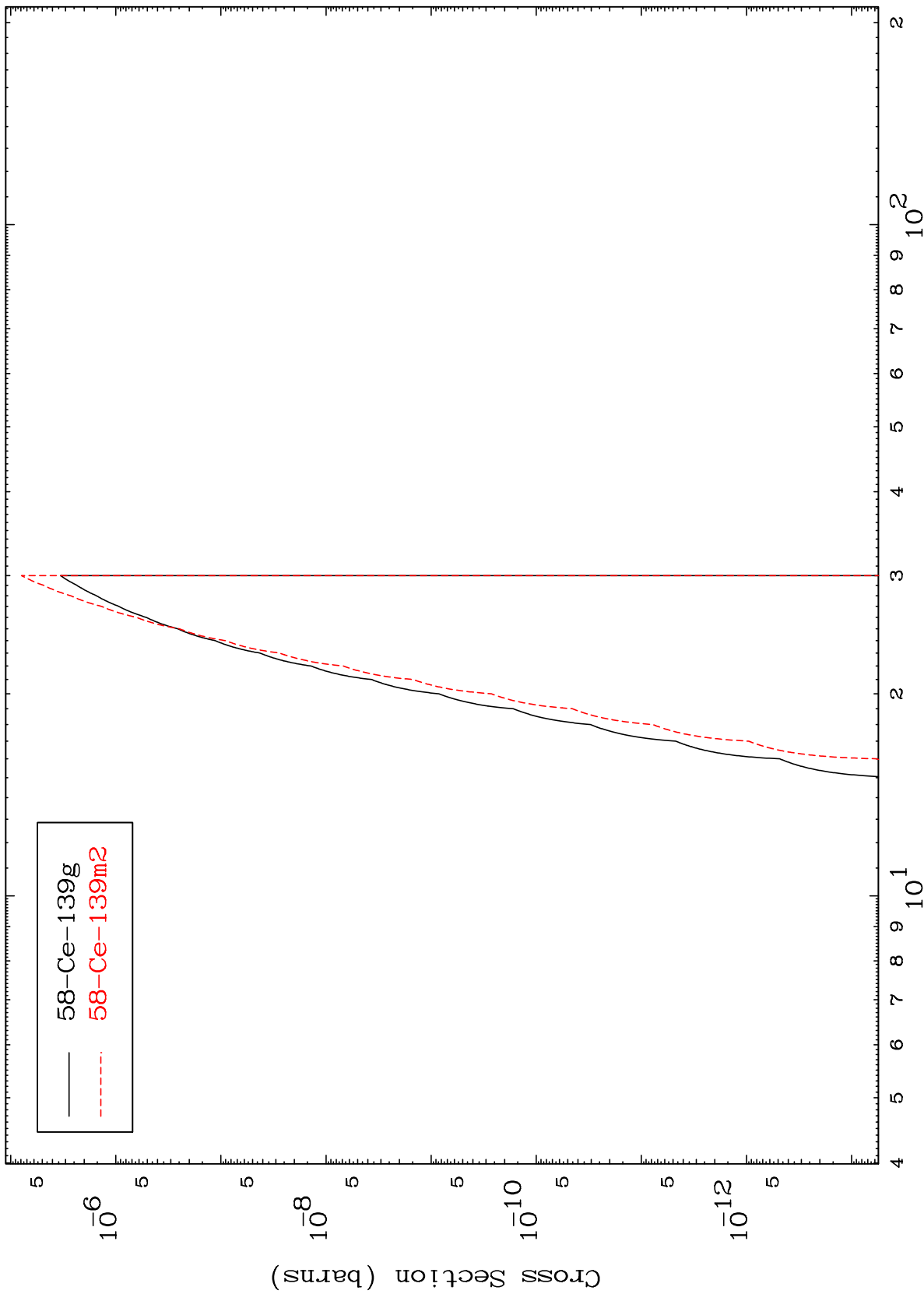
61-Pm-144

MAT 6140

(n,n') p α

61-Pm-144

Radionuclide Production Cross Section



— 58-Ce-139g
- - - 58-Ce-139m2

125

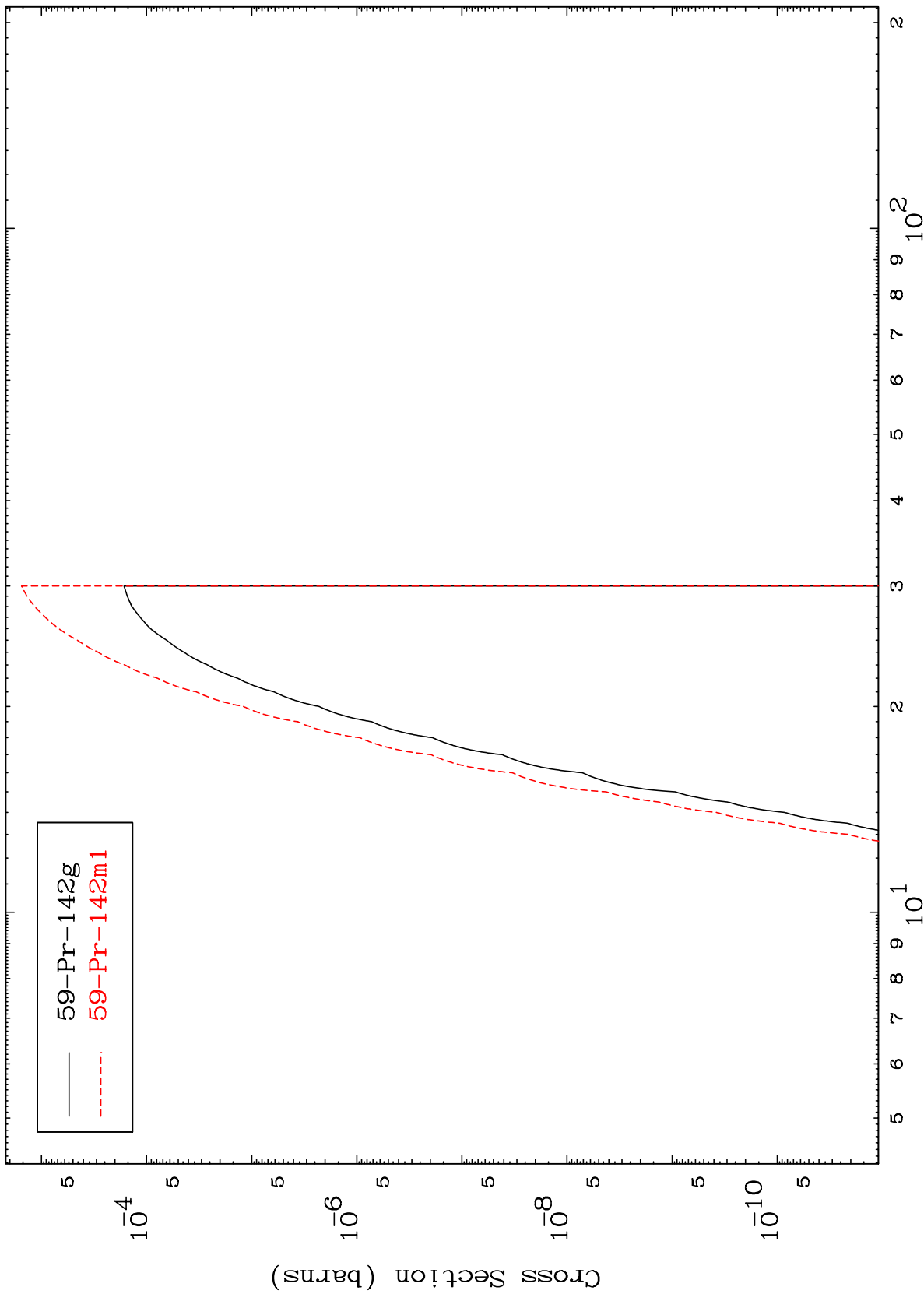
Incident Energy (MeV)

61-Pm-144

MAT 6140

61-Pm-144

(n,He-3)
Radionuclide Production Cross Section



126

Incident Energy (MeV)

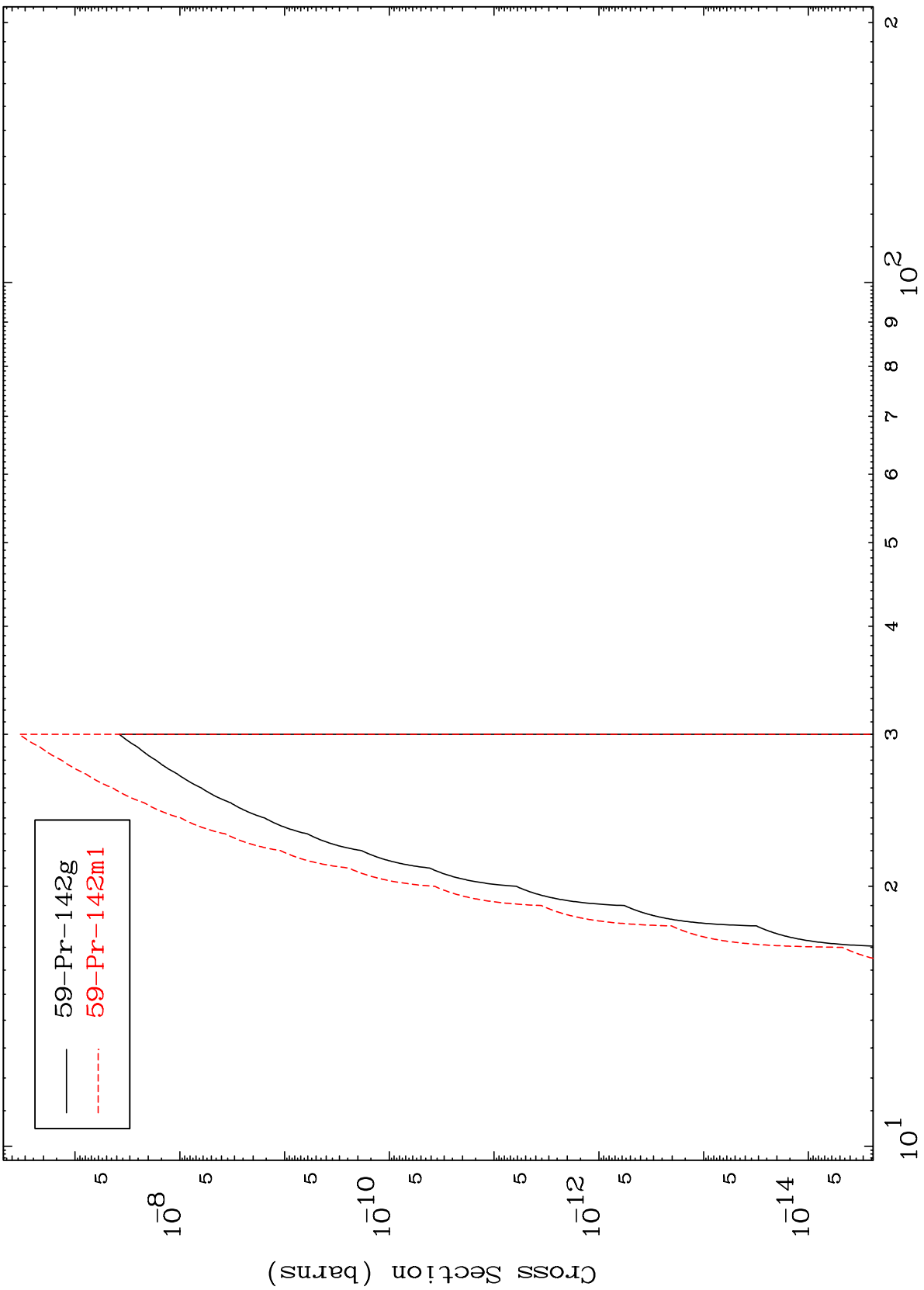
61-Pm-144

MAT 6140

(n,p) d

61-Pm-144

Radionuclide Production Cross Section



127

Incident Energy (MeV)

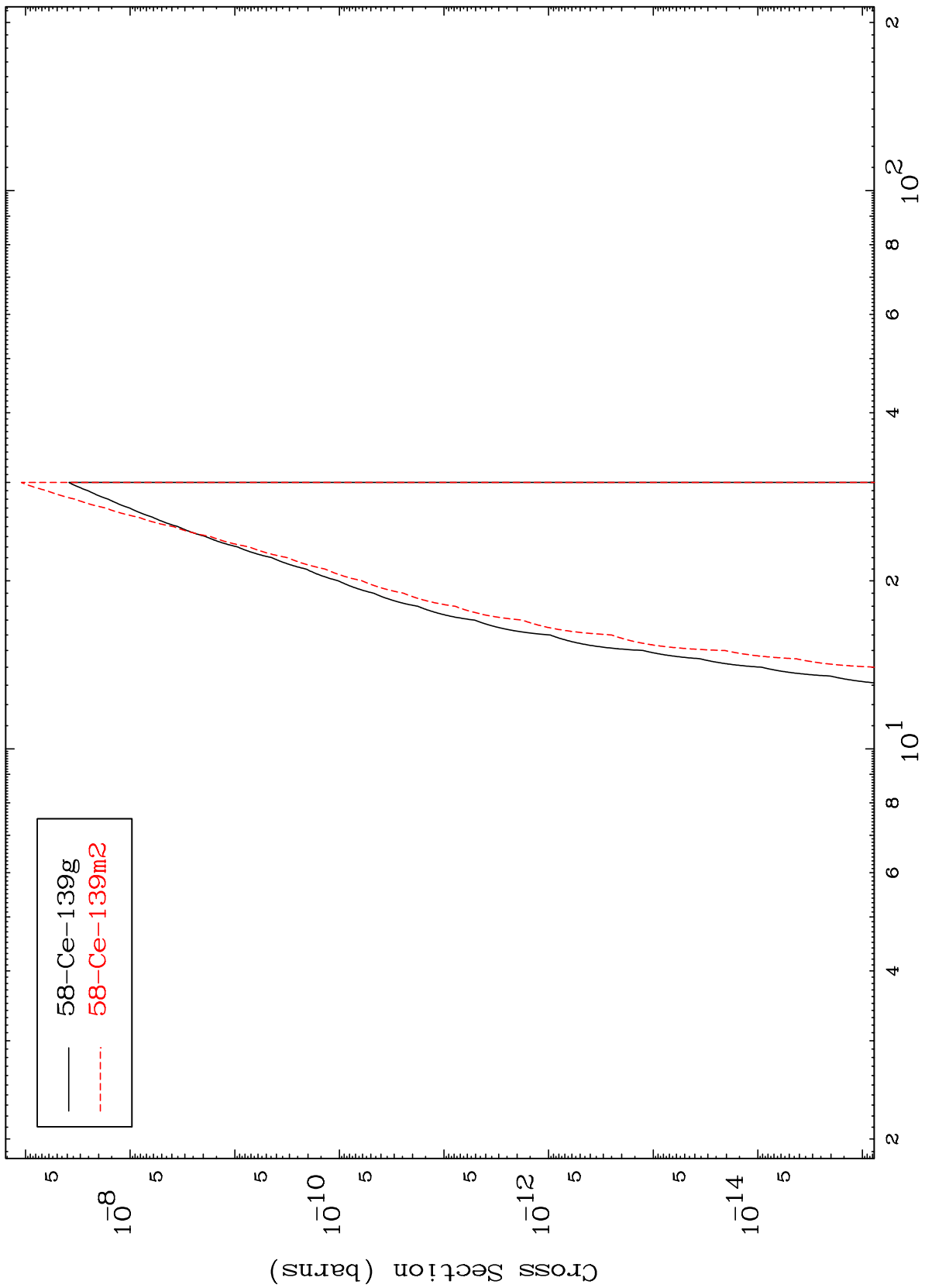
61-Pm-144

MAT 6140

(n,d) α

61-Pm-144

Radionuclide Production Cross Section



58-Ce-139g
58-Ce-139m2

128

Incident Energy (MeV)

61-Pm-144