

Program EVALPLOT
(Version 2018-1)

by

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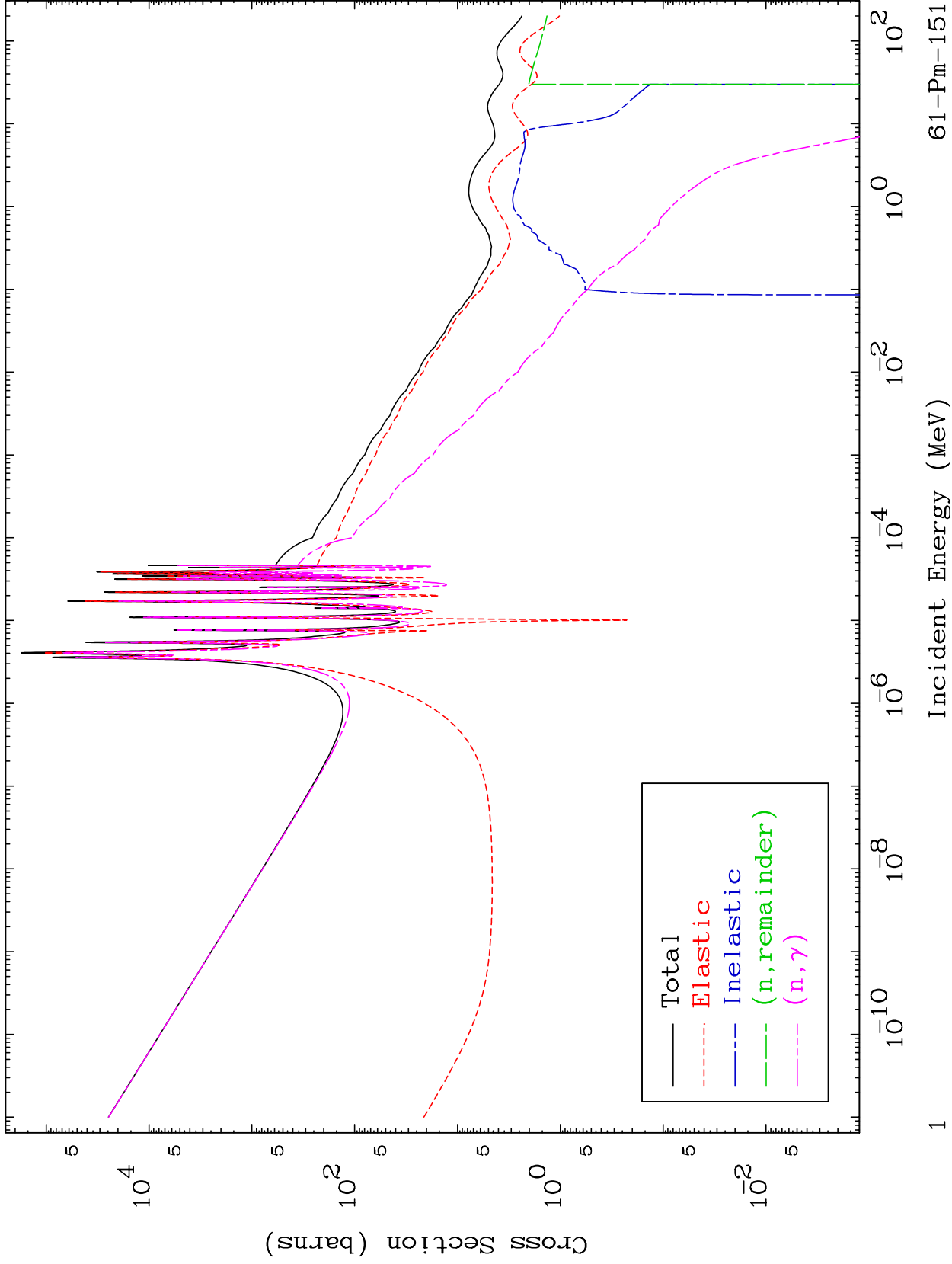
Press Mouse Button to Start

MAT 6161

Major

293 Kelvin Cross Sections

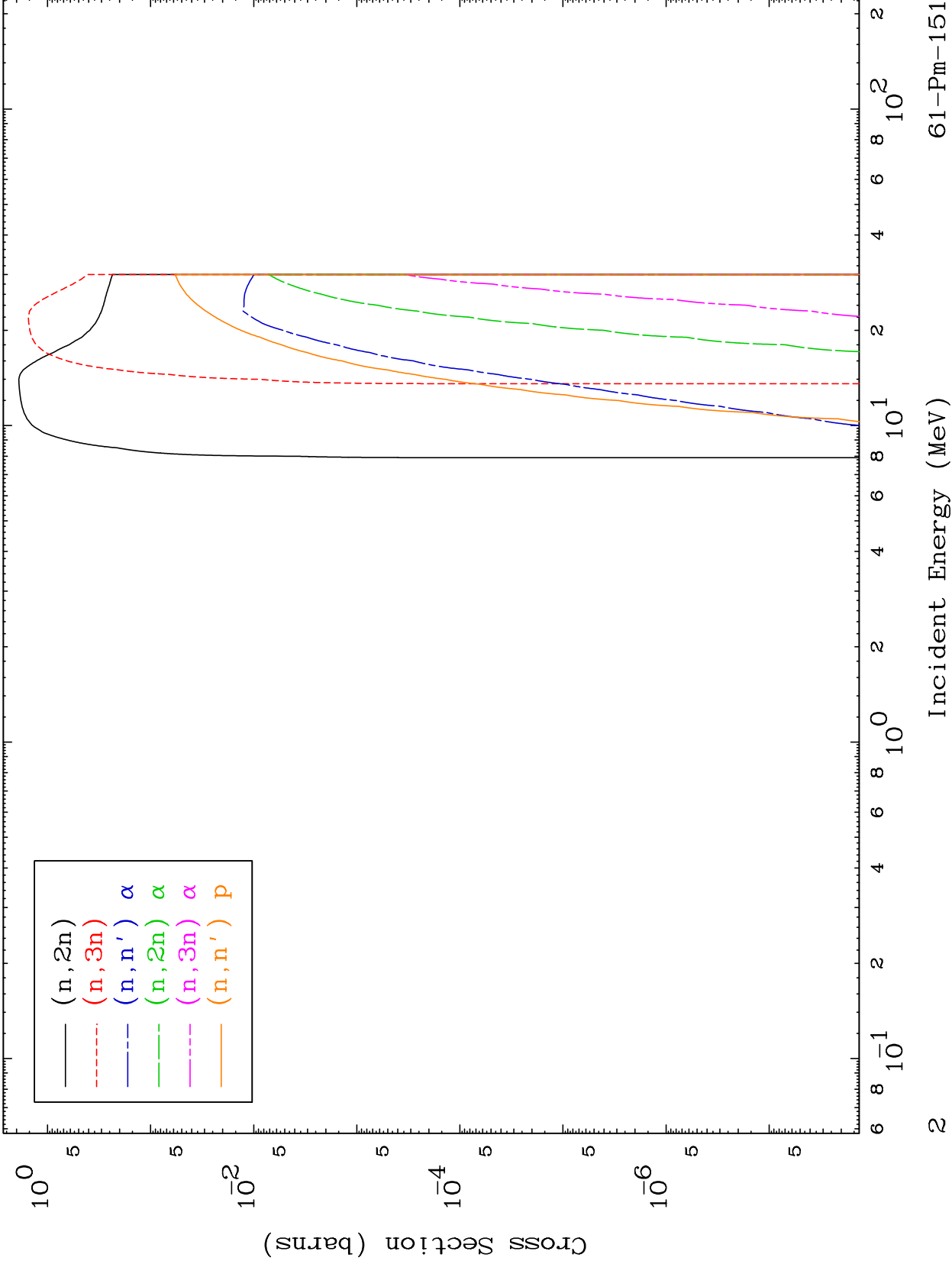
61-Pm-151

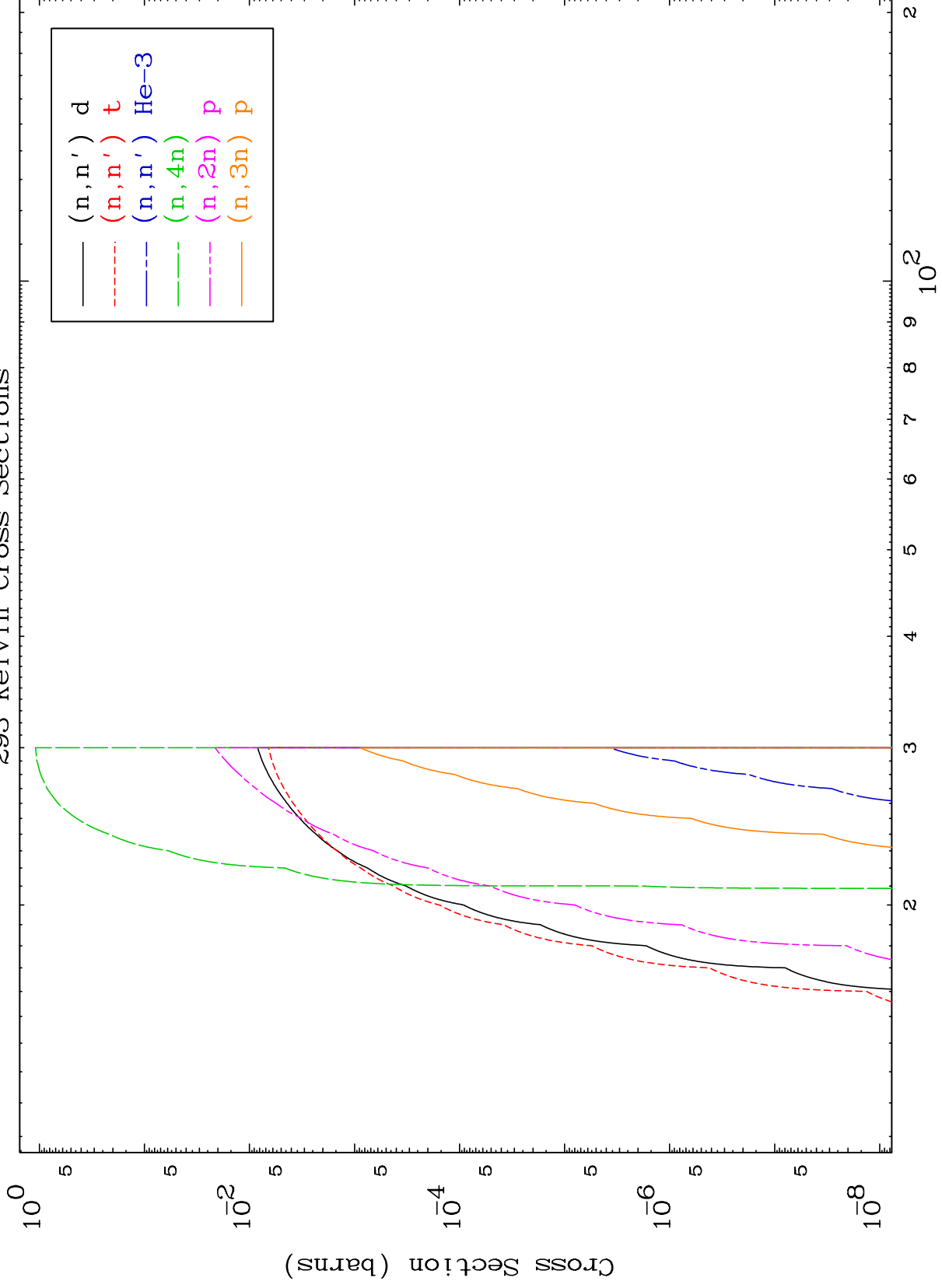


MAT 6161

Neutron Production
293 Kelvin Cross Sections

61-Pm-151

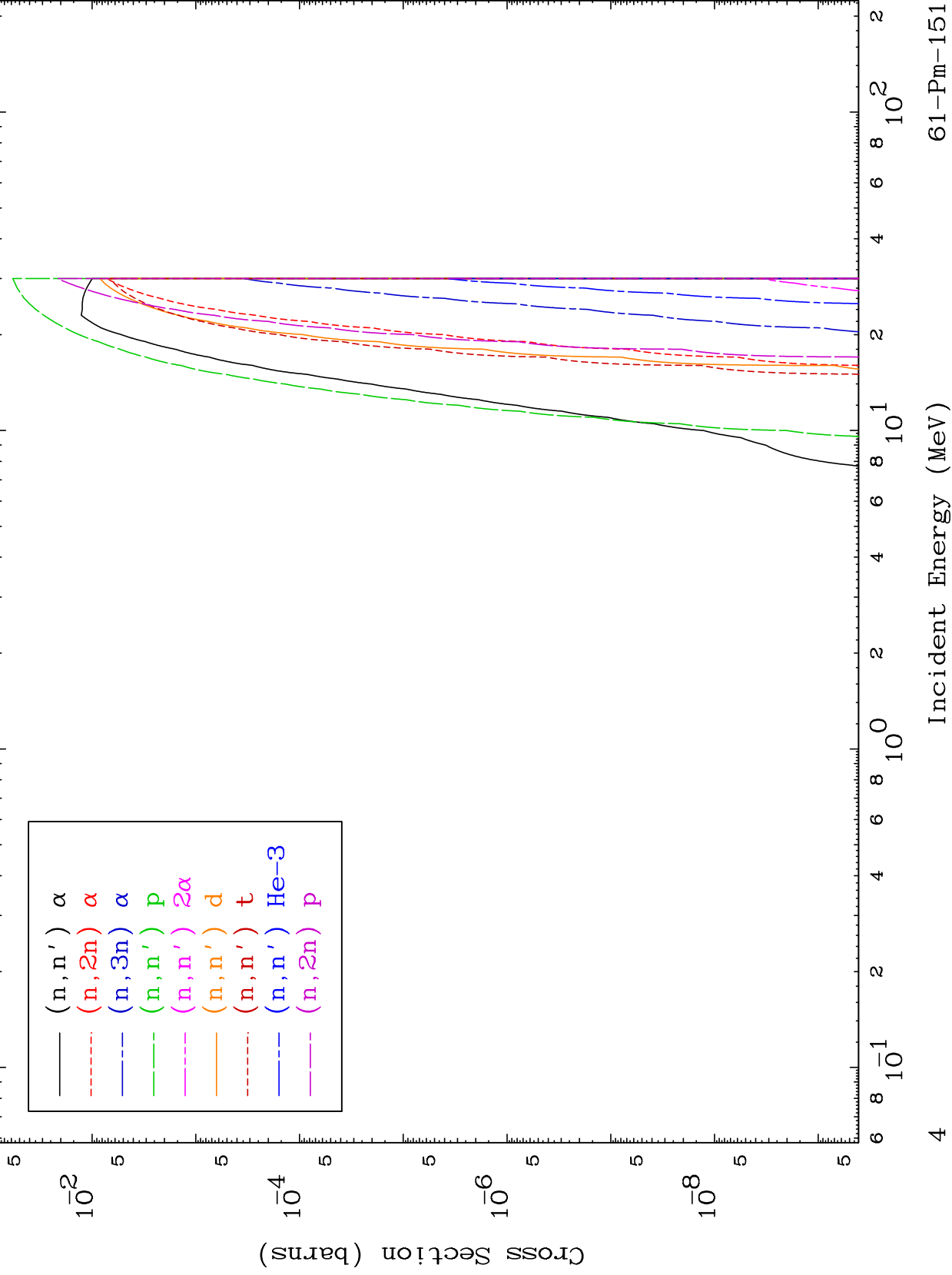




MAT 6161

Charged Particle
293 Kelvin Cross Sections

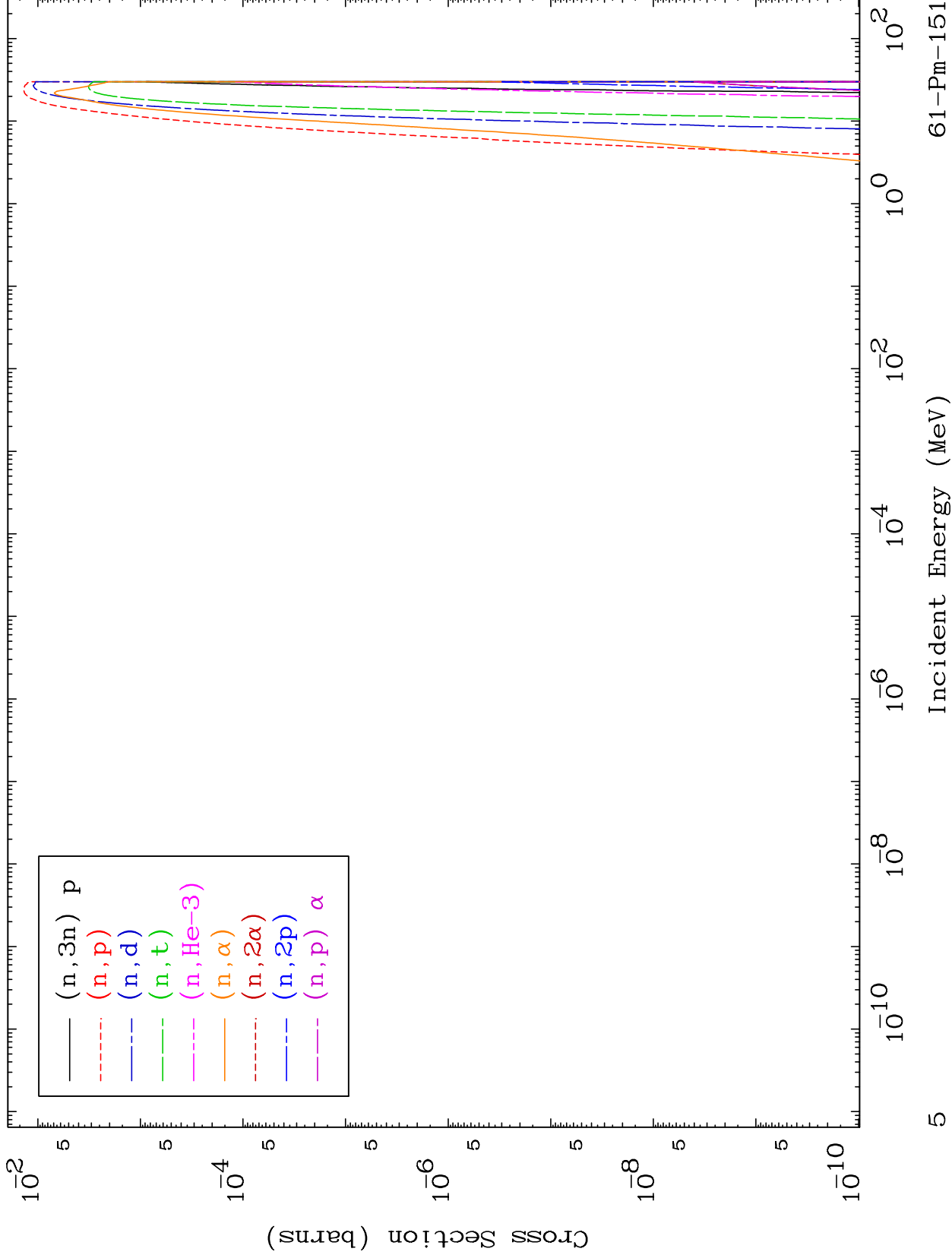
61-Pm-151



MAT 6161

Charged Particle
293 Kelvin Cross Sections

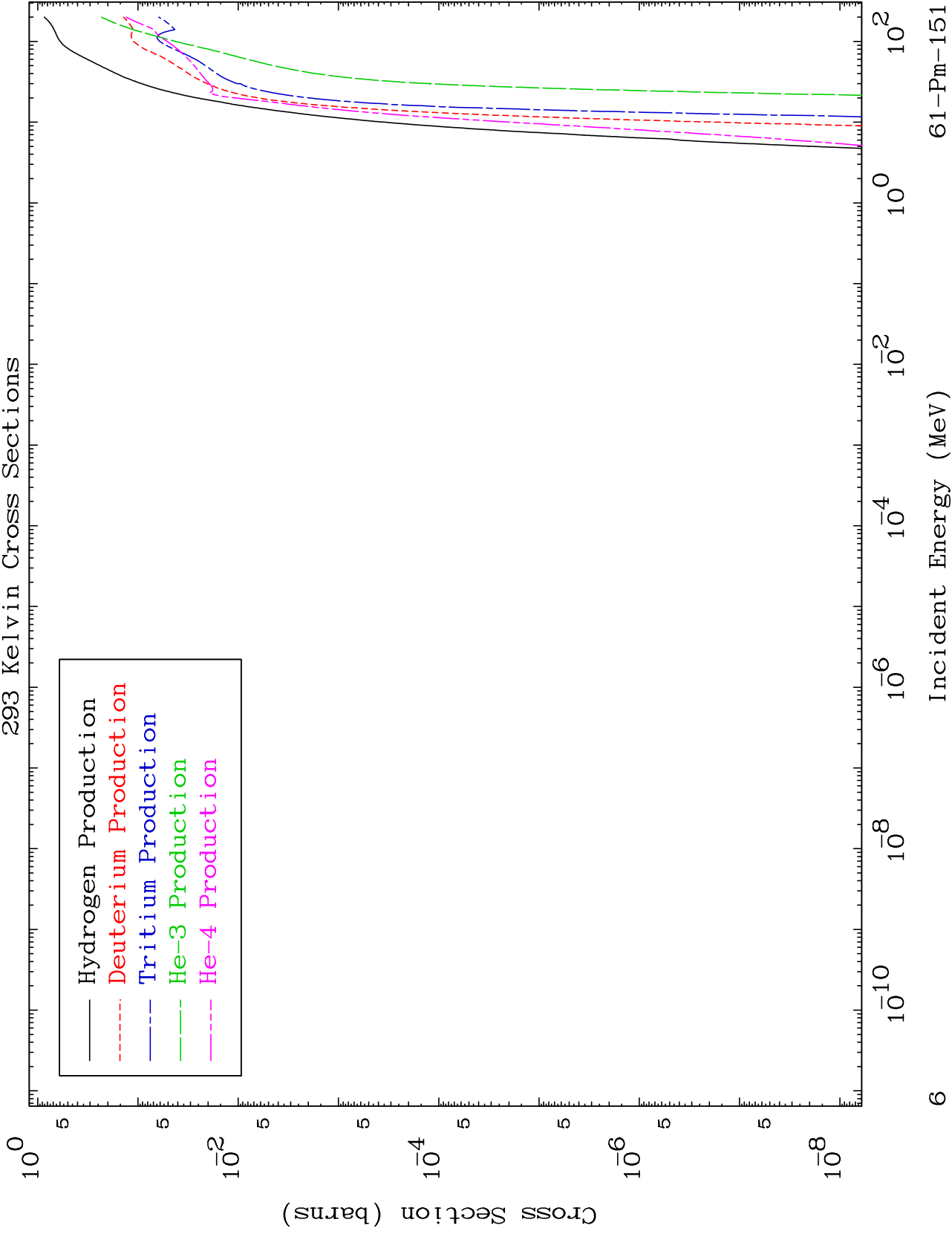
61-Pm-151



MAT 6161

Particle Production
293 Kelvin Cross Sections

61-Pm-151

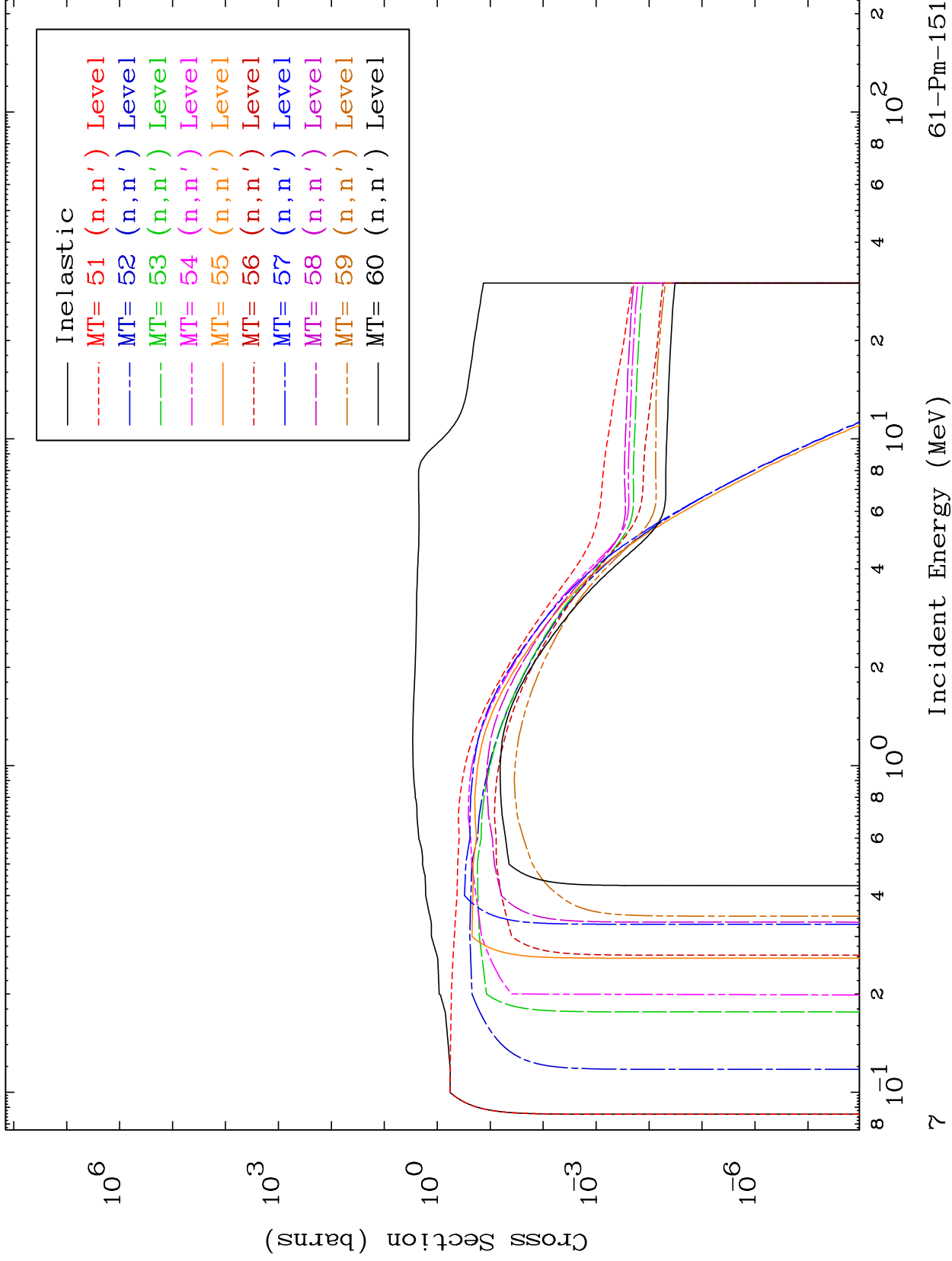


MAT 6161

(n,n') Level

61-Pm-151

293 Kelvin Cross Sections



Incident Energy (MeV)

61-Pm-151

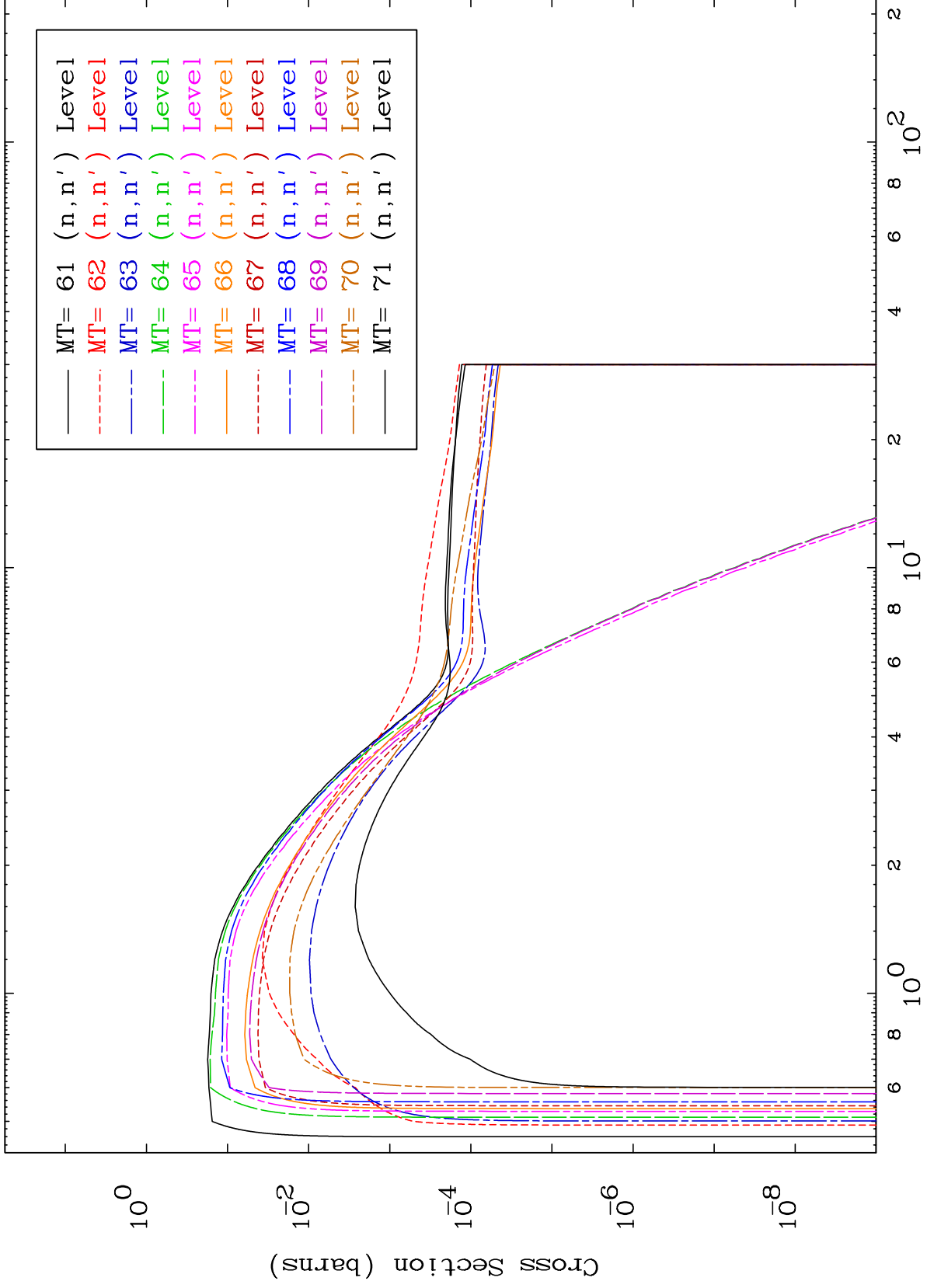
7

MAT 6161

(n,n') Level

293 Kelvin Cross Sections

61-Pm-151



8

Incident Energy (MeV)

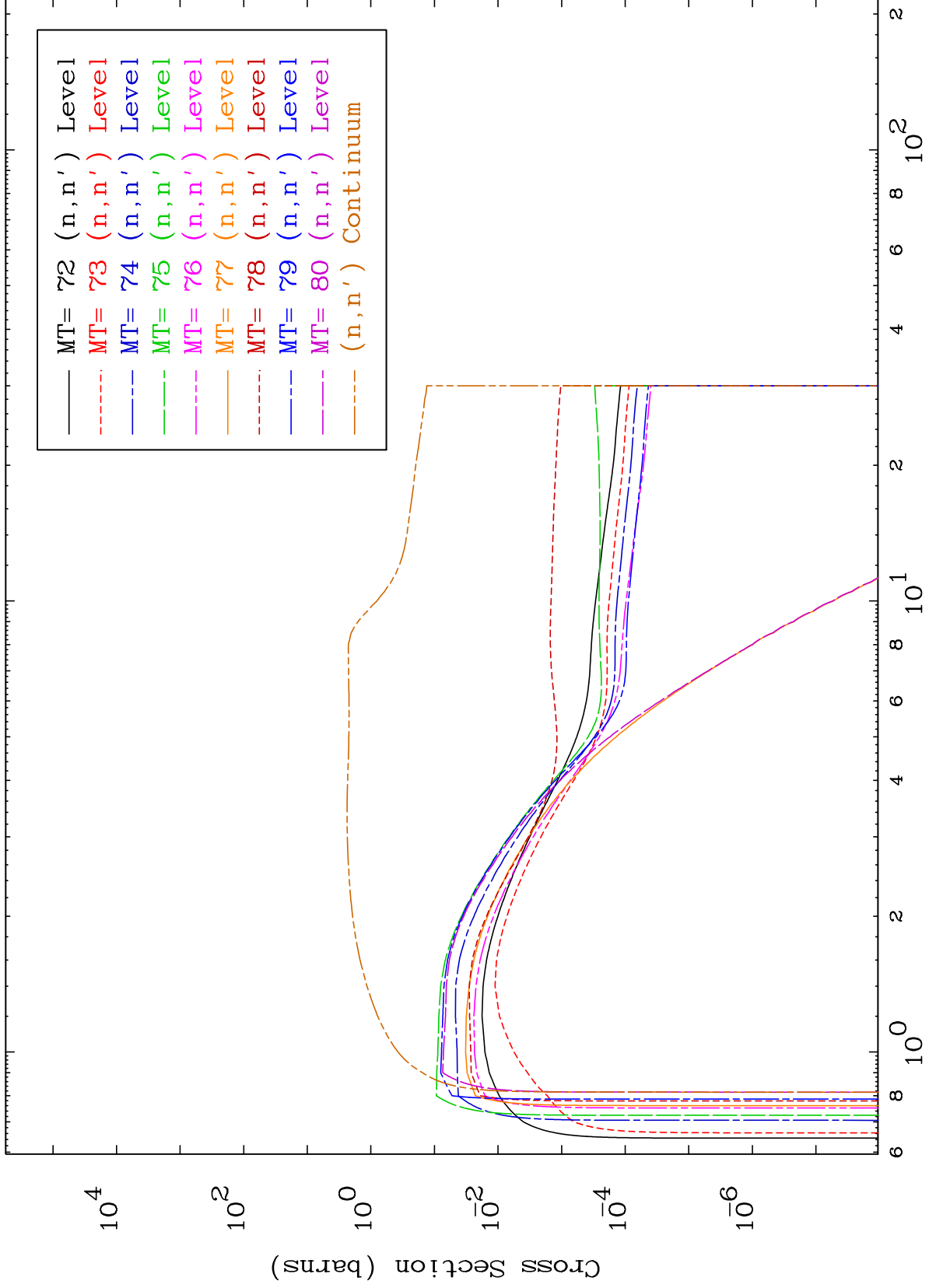
61-Pm-151

MAT 6161

(n,n') Level

61-Pm-151

293 Kelvin Cross Sections



9

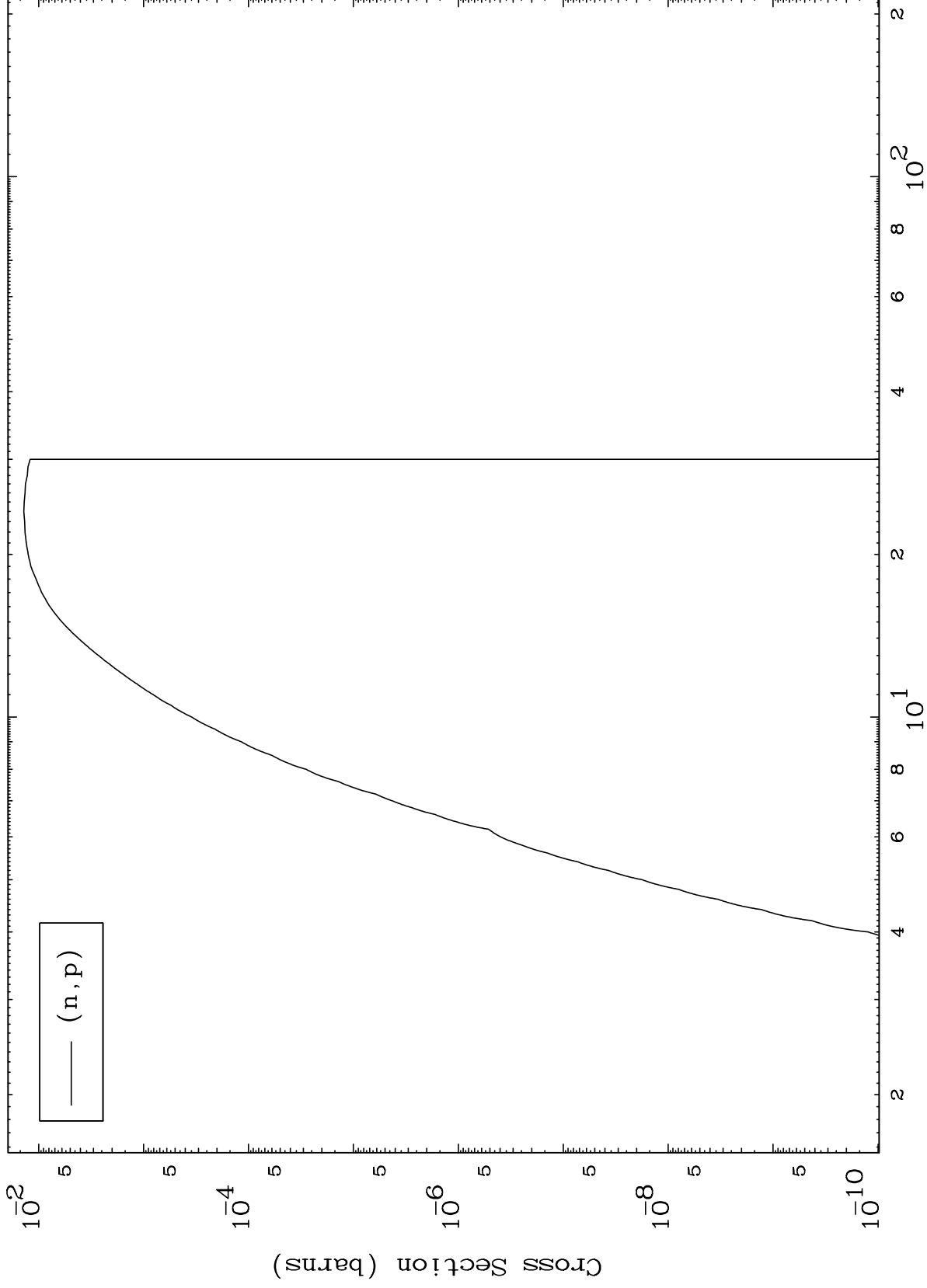
Incident Energy (MeV)

61-Pm-151

MAT 6161

(n,p) Levels
293 Kelvin Cross Sections

61-Pm-151



10

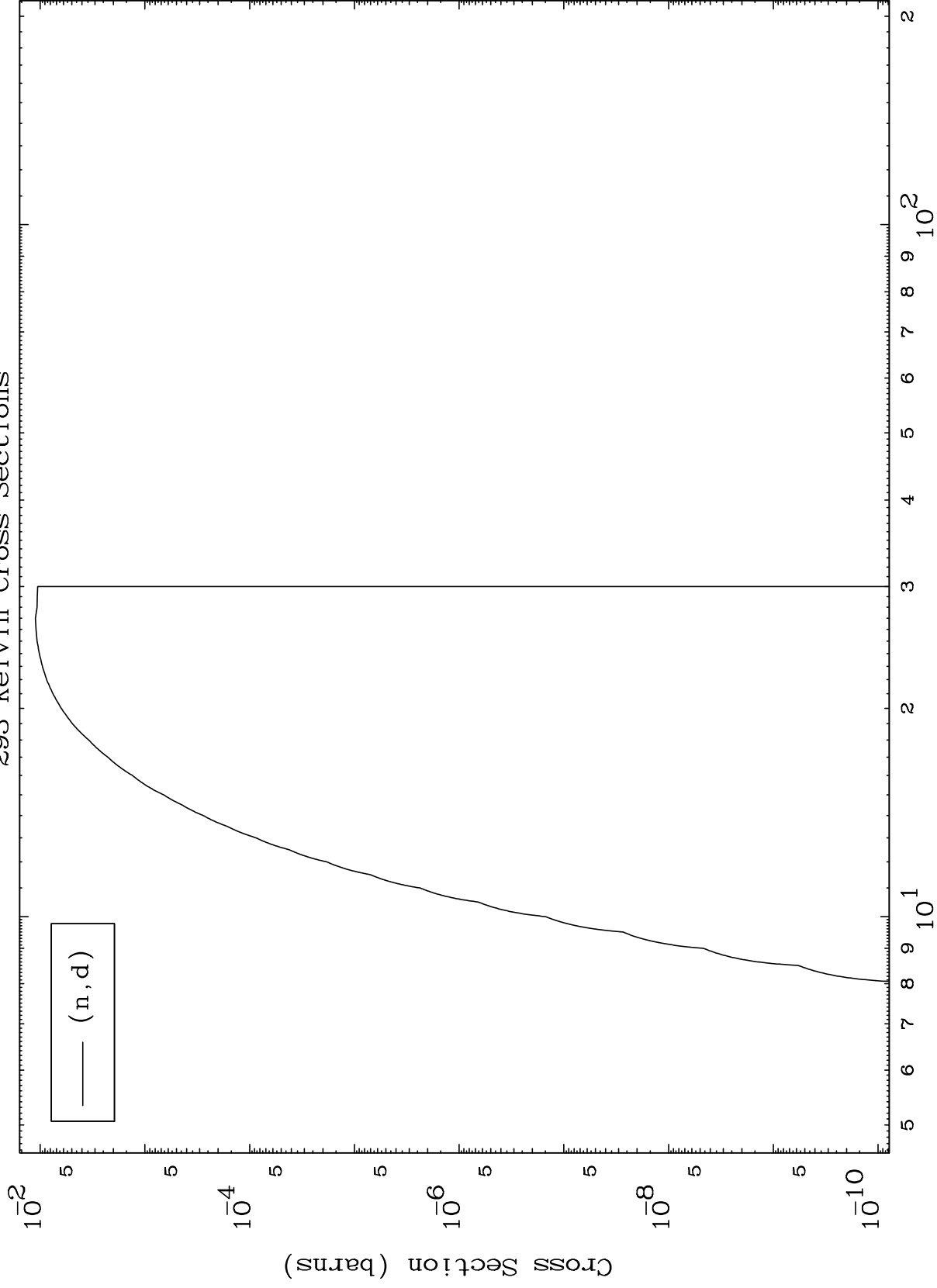
Incident Energy (MeV)

61-Pm-151

MAT 6161

(n,d) Levels
293 Kelvin Cross Sections

61-Pm-151



11

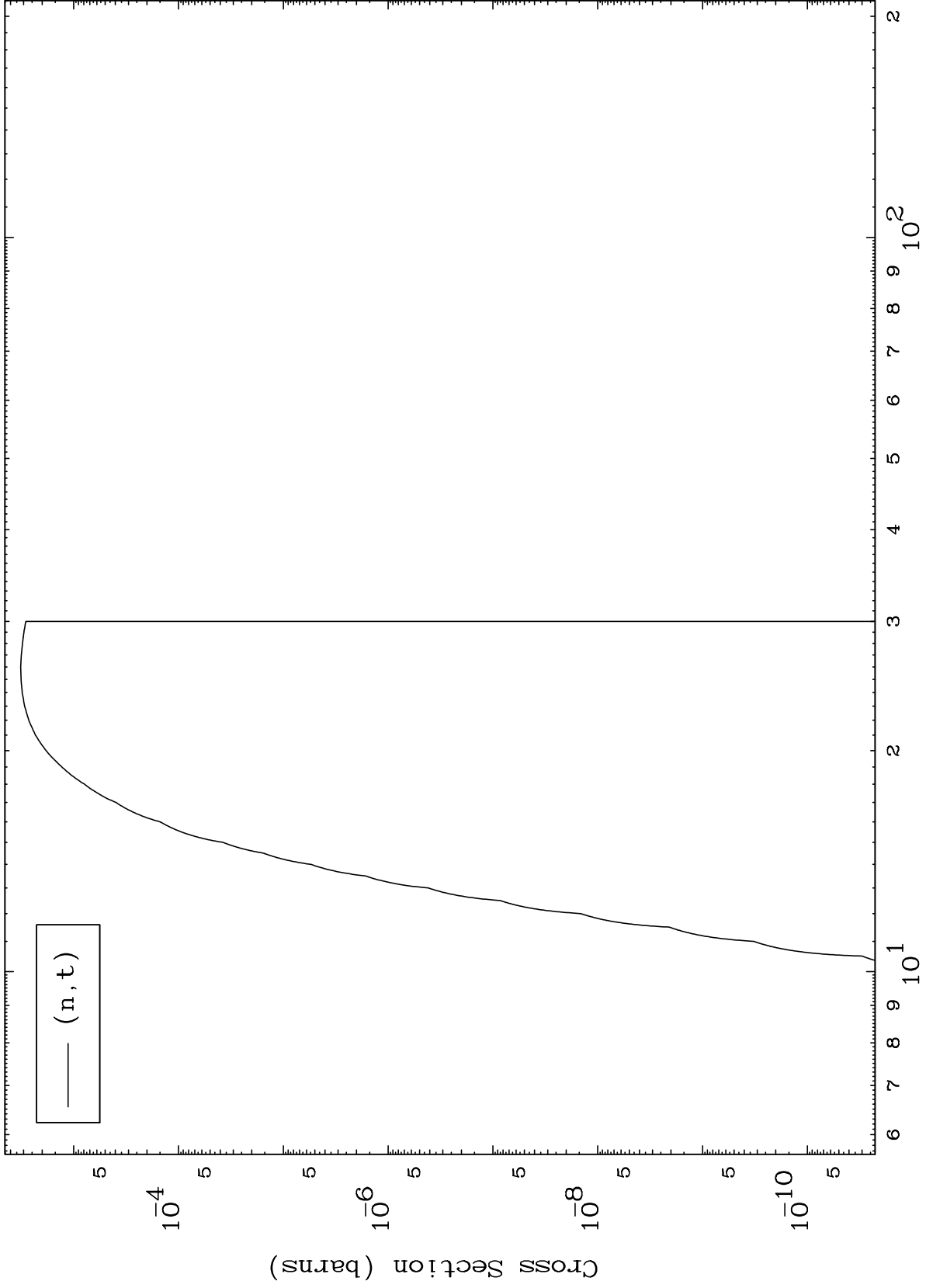
Incident Energy (MeV)

61-Pm-151

MAT 6161

(n, t) Levels
293 Kelvin Cross Sections

61-Pm-151



12

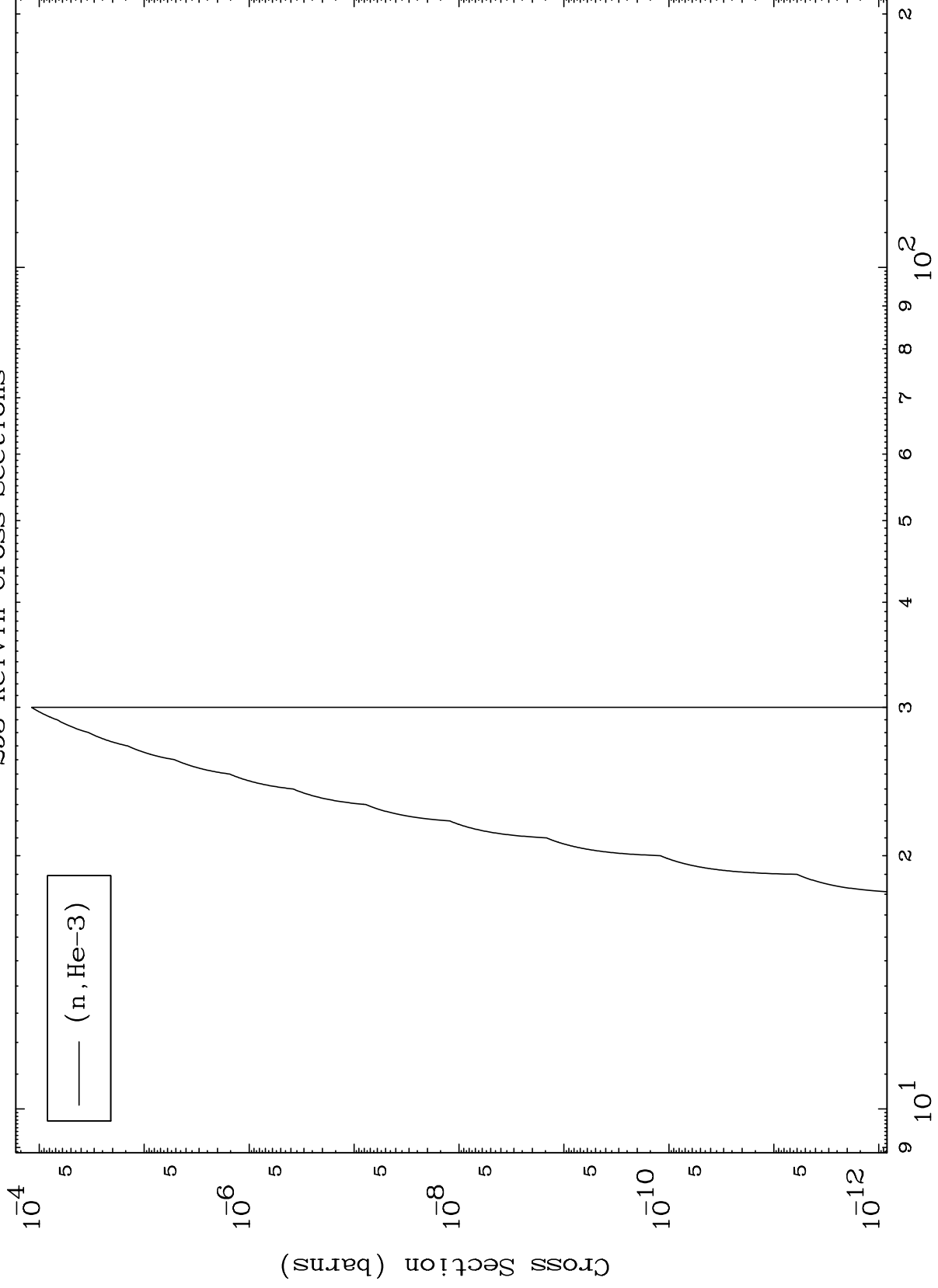
Incident Energy (MeV)

61-Pm-151

MAT 6161

(n,He3) Levels
293 Kelvin Cross Sections

61-Pm-151



13

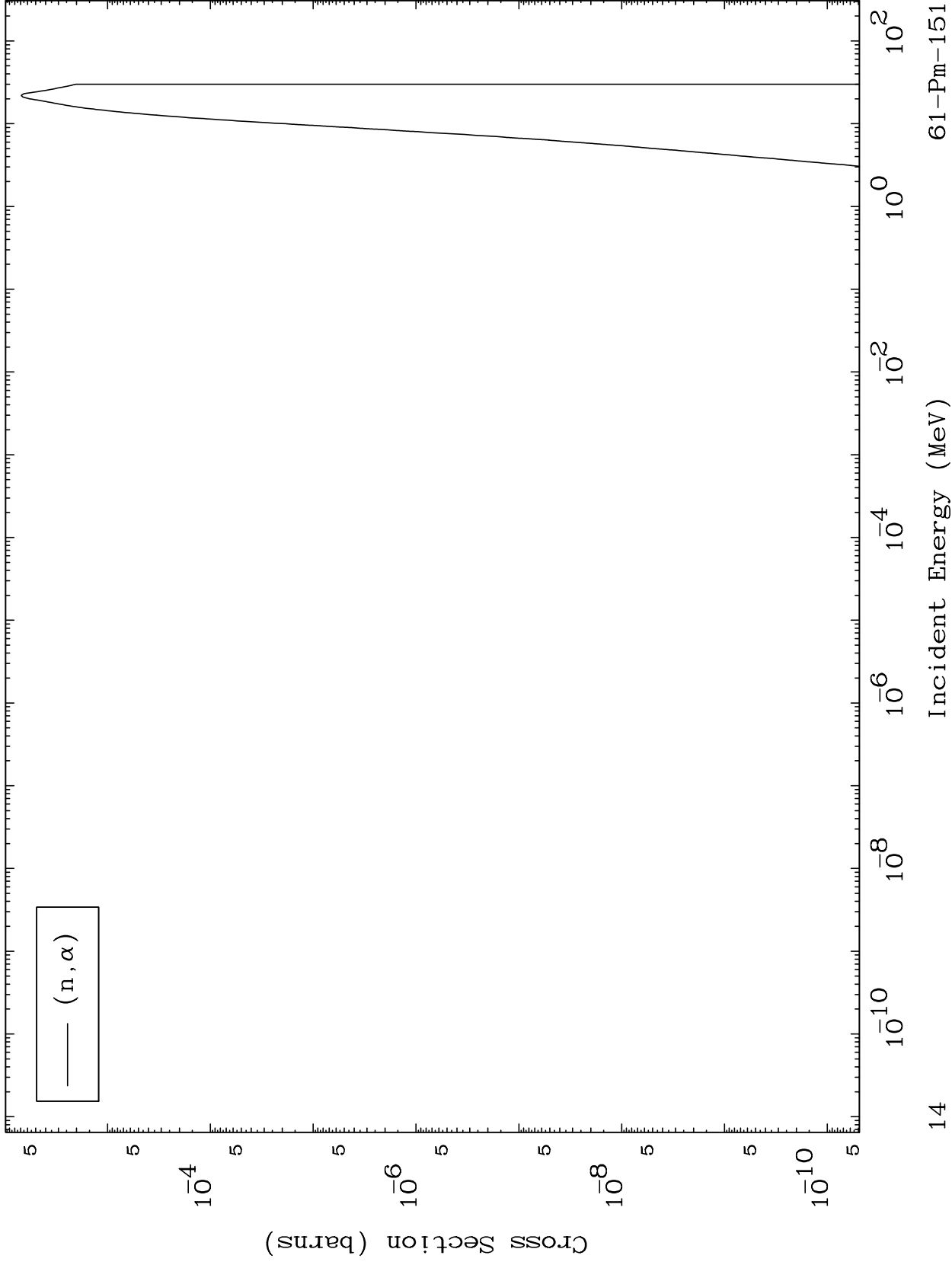
Incident Energy (MeV)

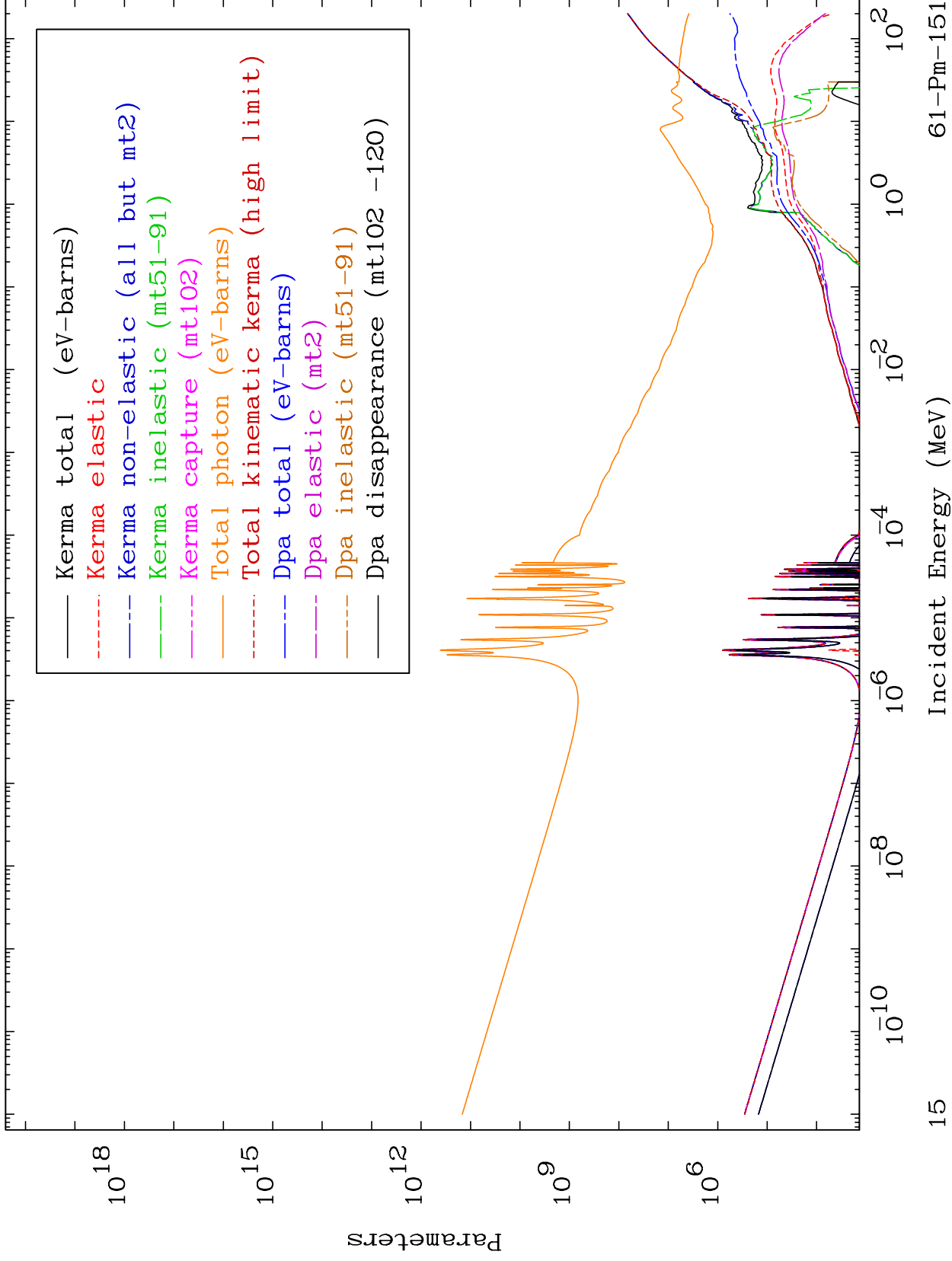
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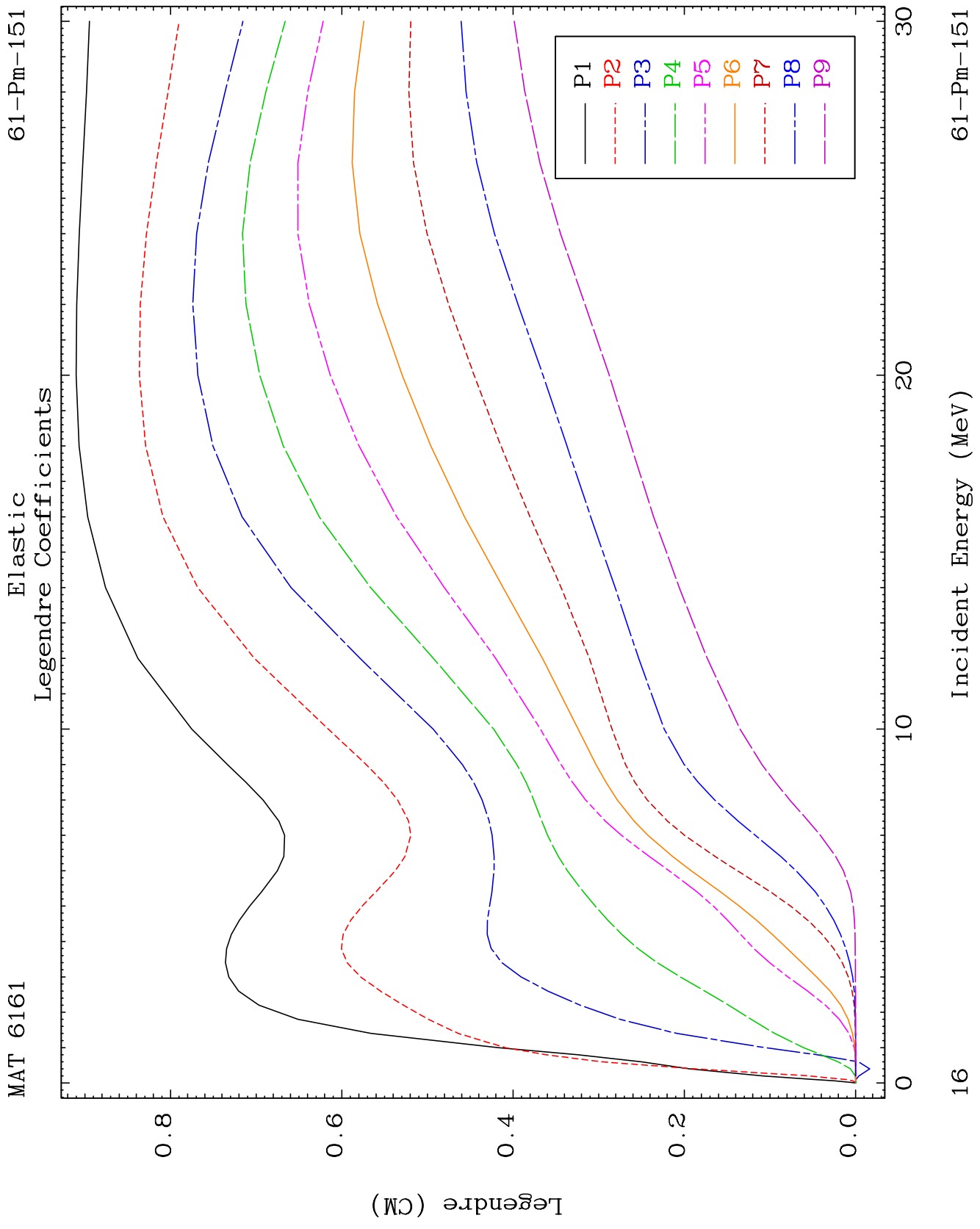
MAT 6161

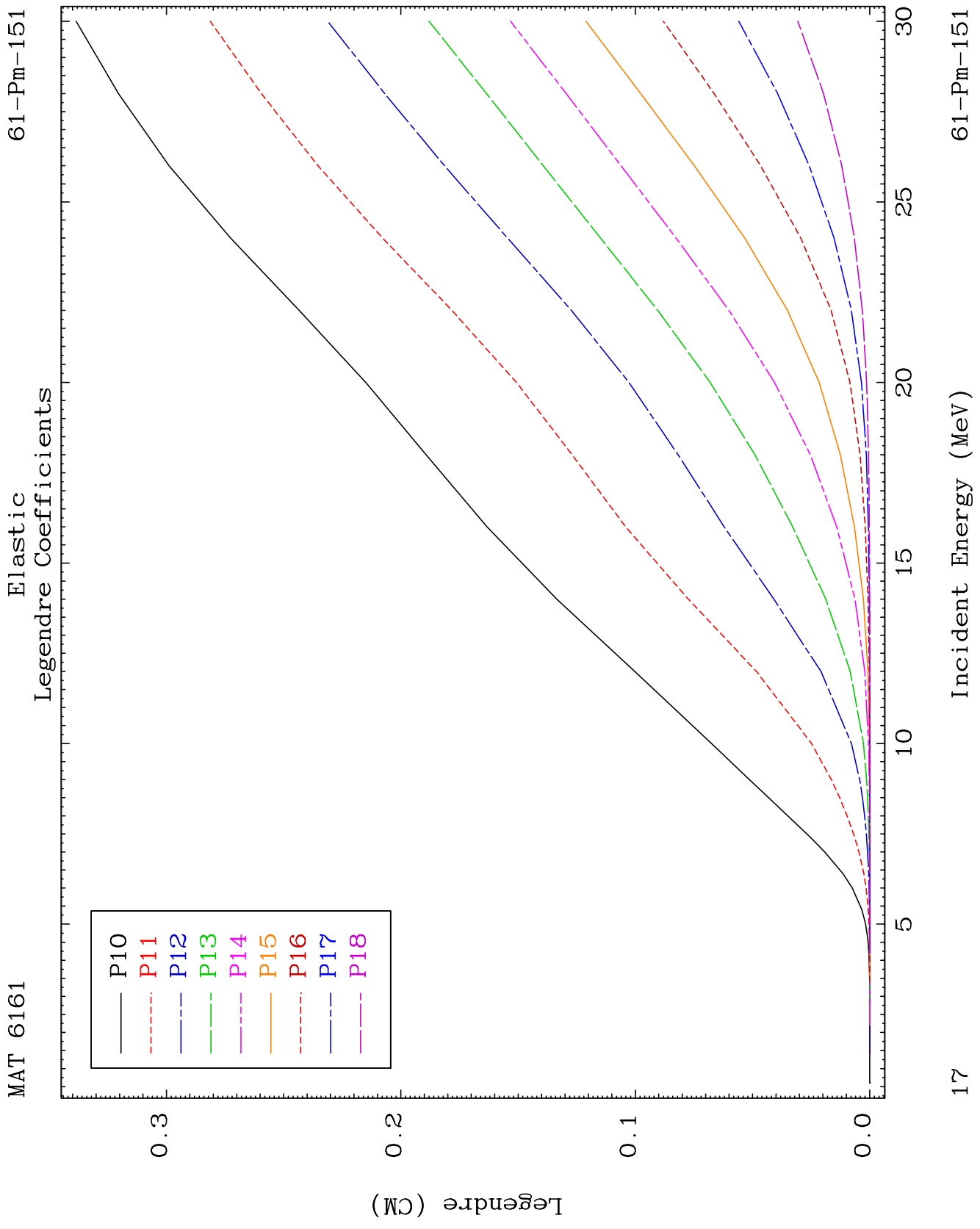
(n, α) Levels
293 Kelvin Cross Sections

61-Pm-151





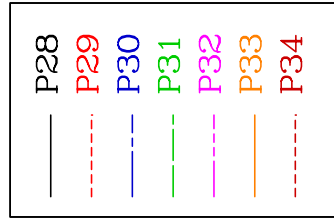




MAT 6161

Elastic Legendre Coefficients

61-Pm-151



$\times 10^{-6}$

Legendre (CM)

2.0
1.5

1.0

0.5

0.0

15

20

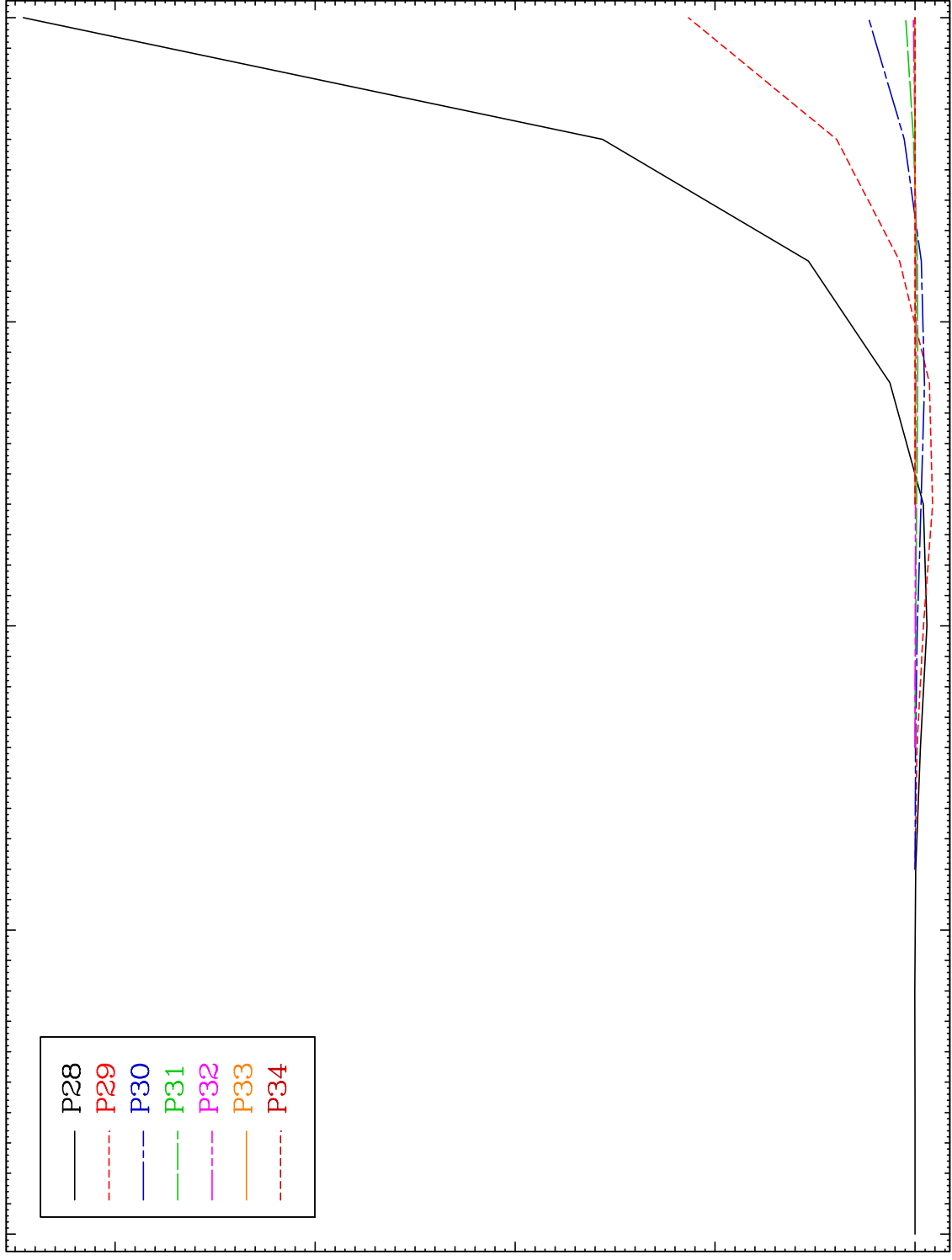
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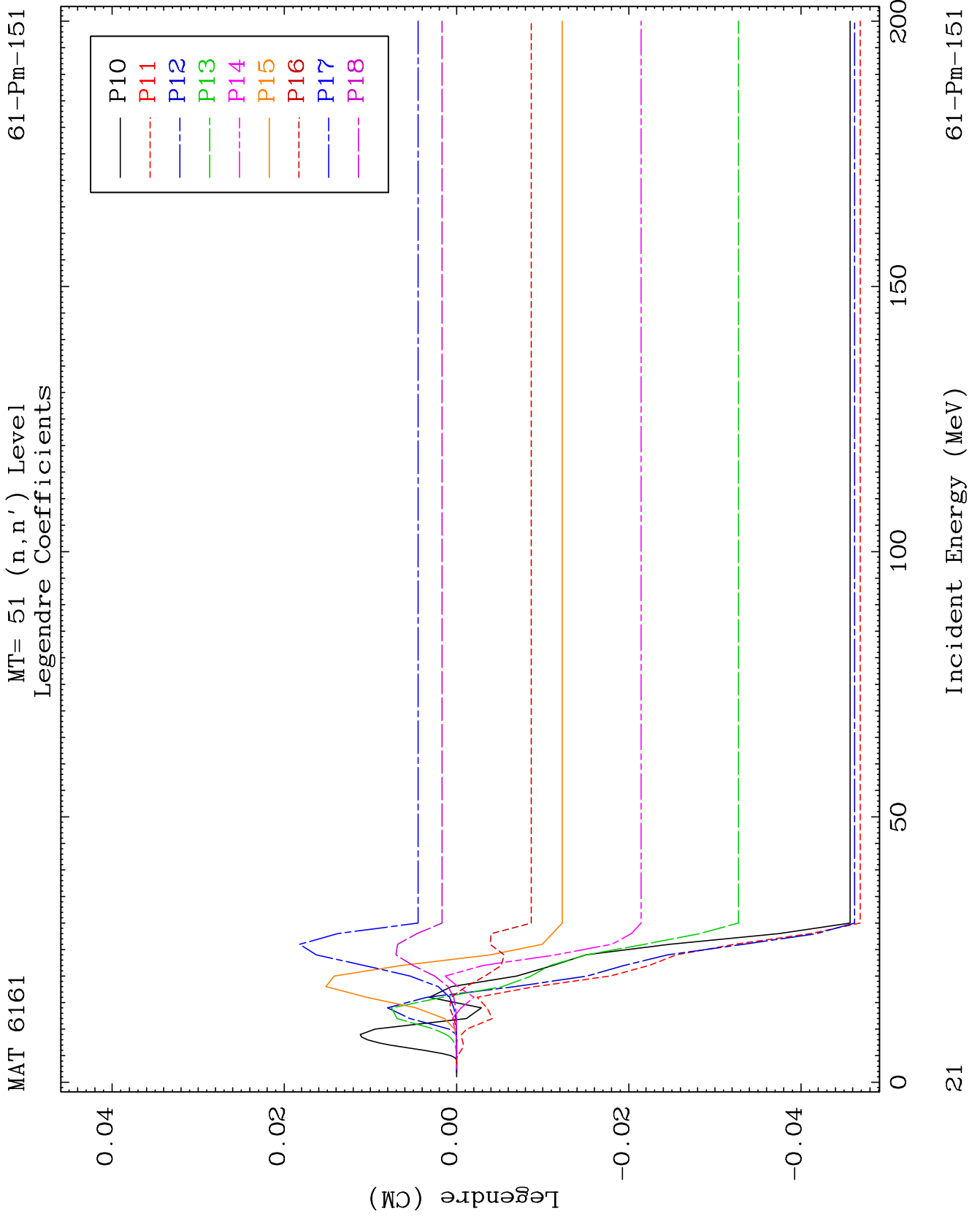
30

19

Incident Energy (MeV)

61-Pm-151

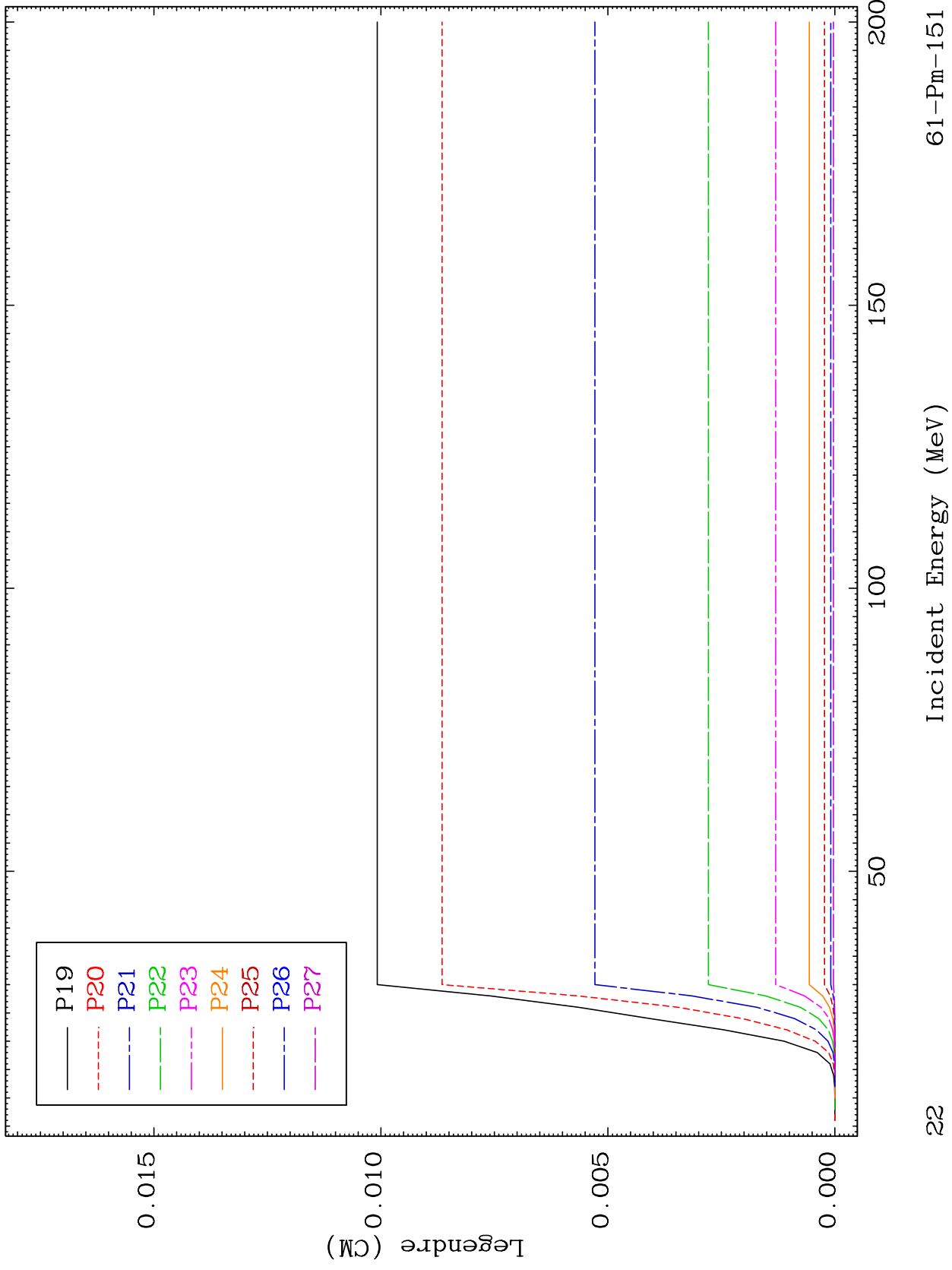




MAT 6161

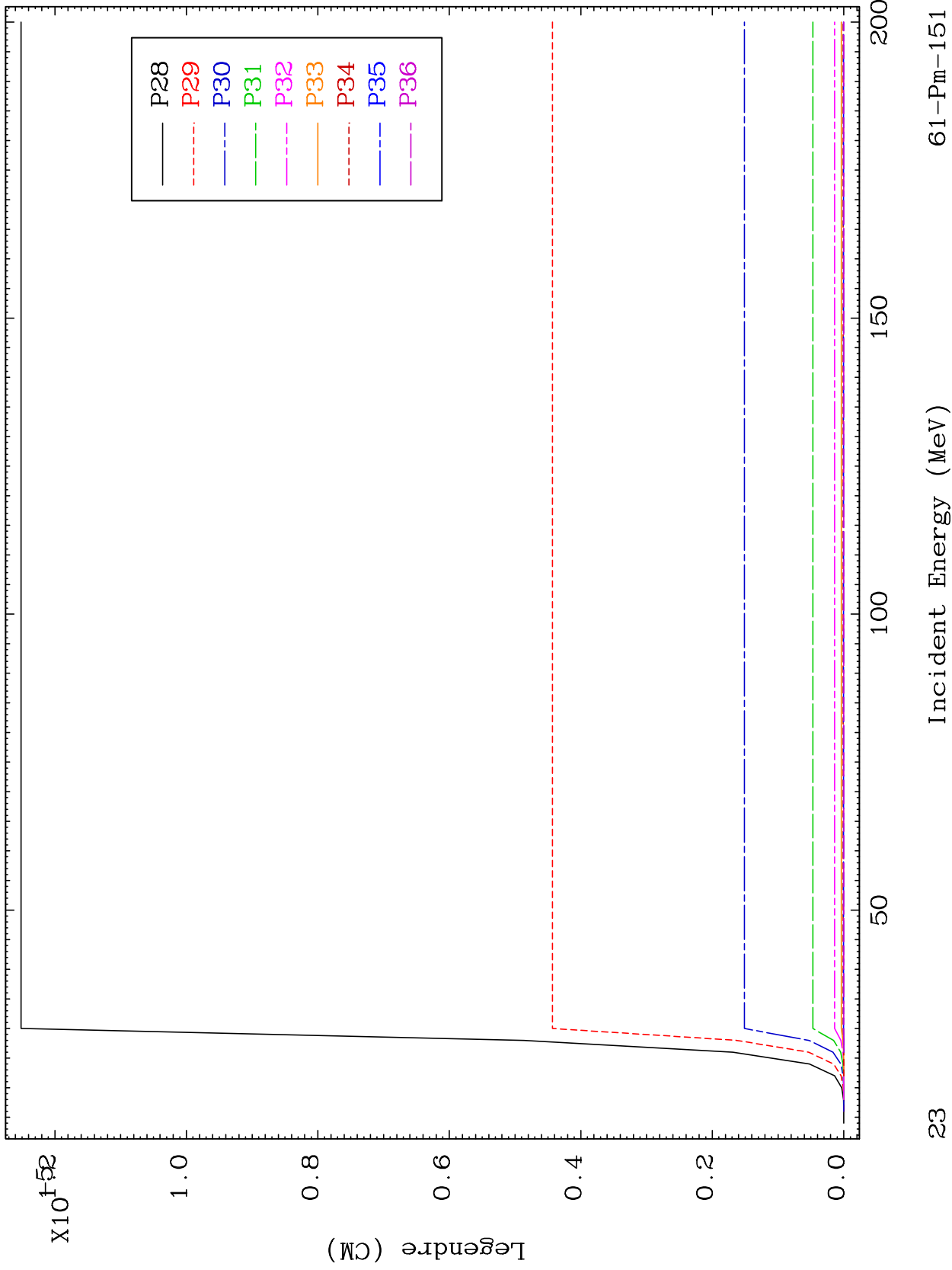
MT= 51 (n,n') Level
Legendre Coefficients

61-Pm-151



22

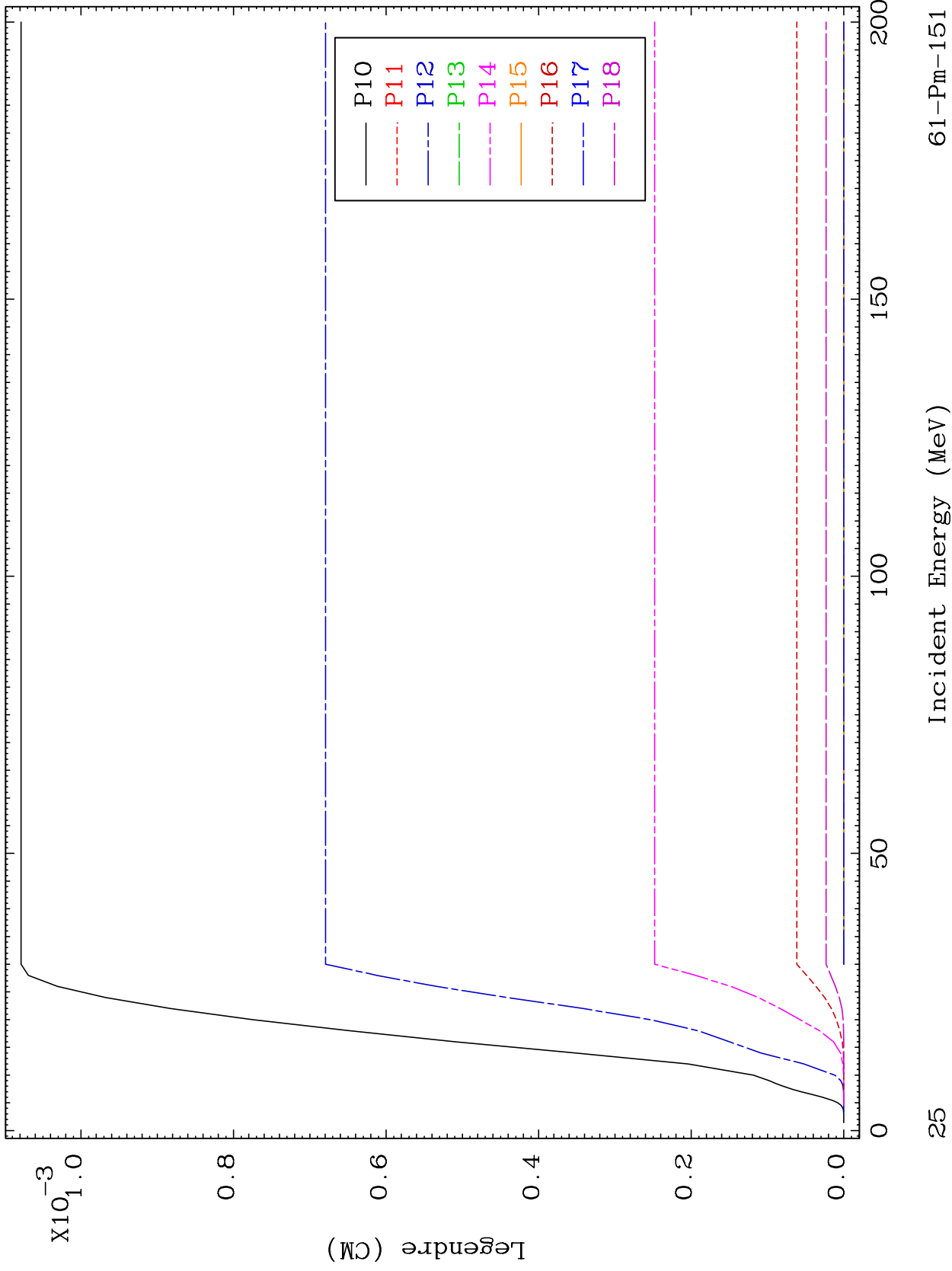
61-Pm-151



MAT 6161

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

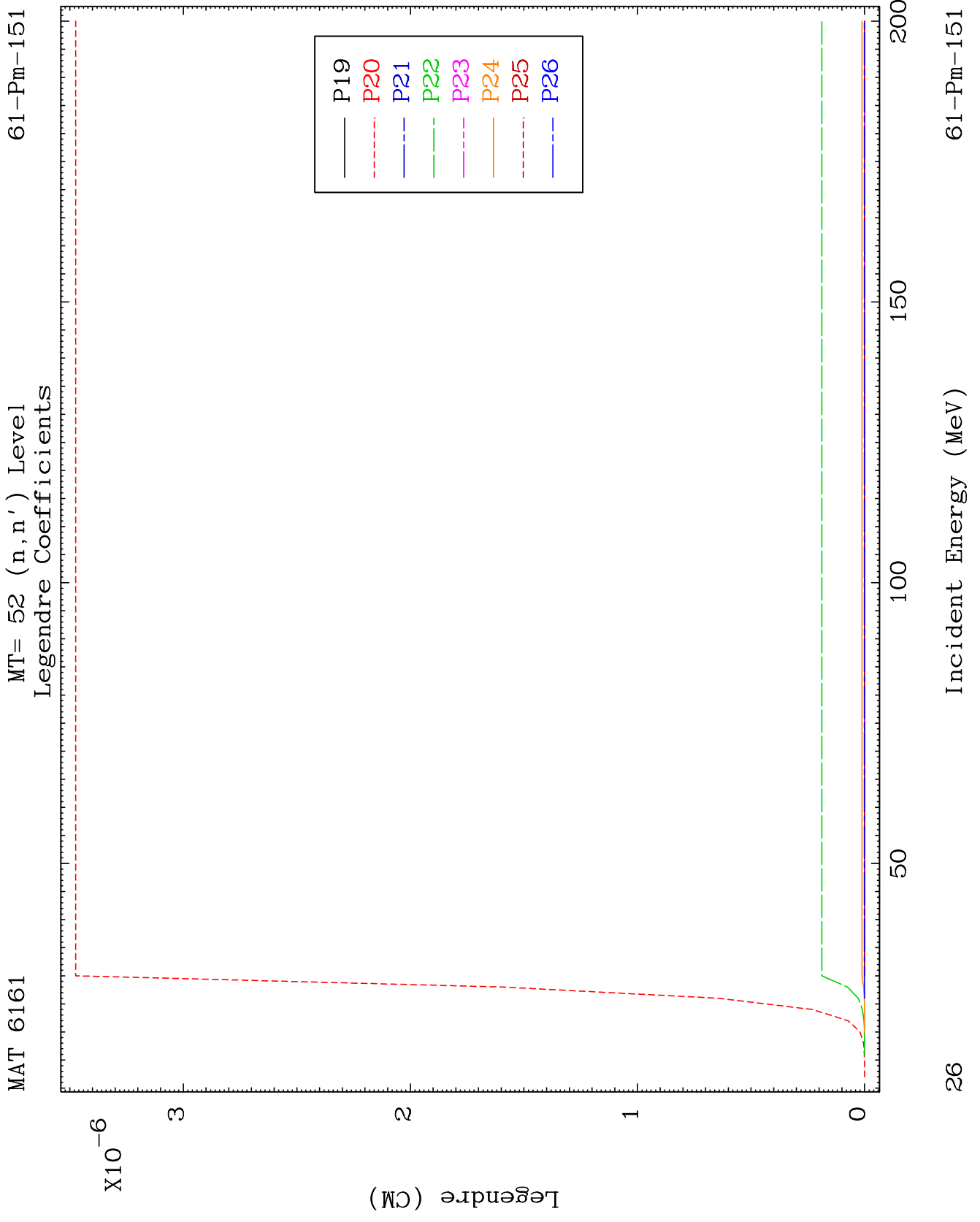
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25

Incident Energy (MeV)

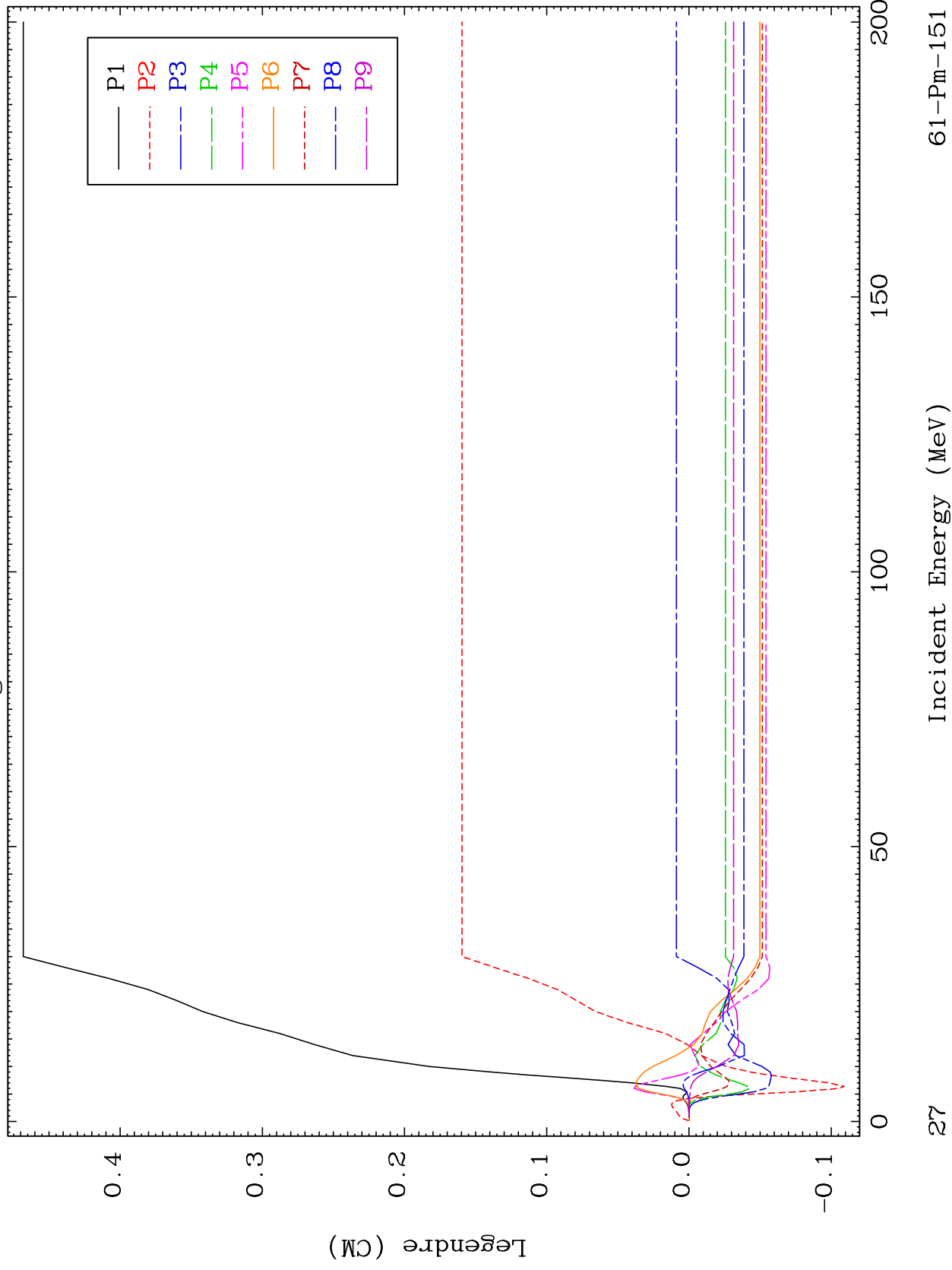
61-Pm-151



MAT 6161

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

61-Pm-151



27

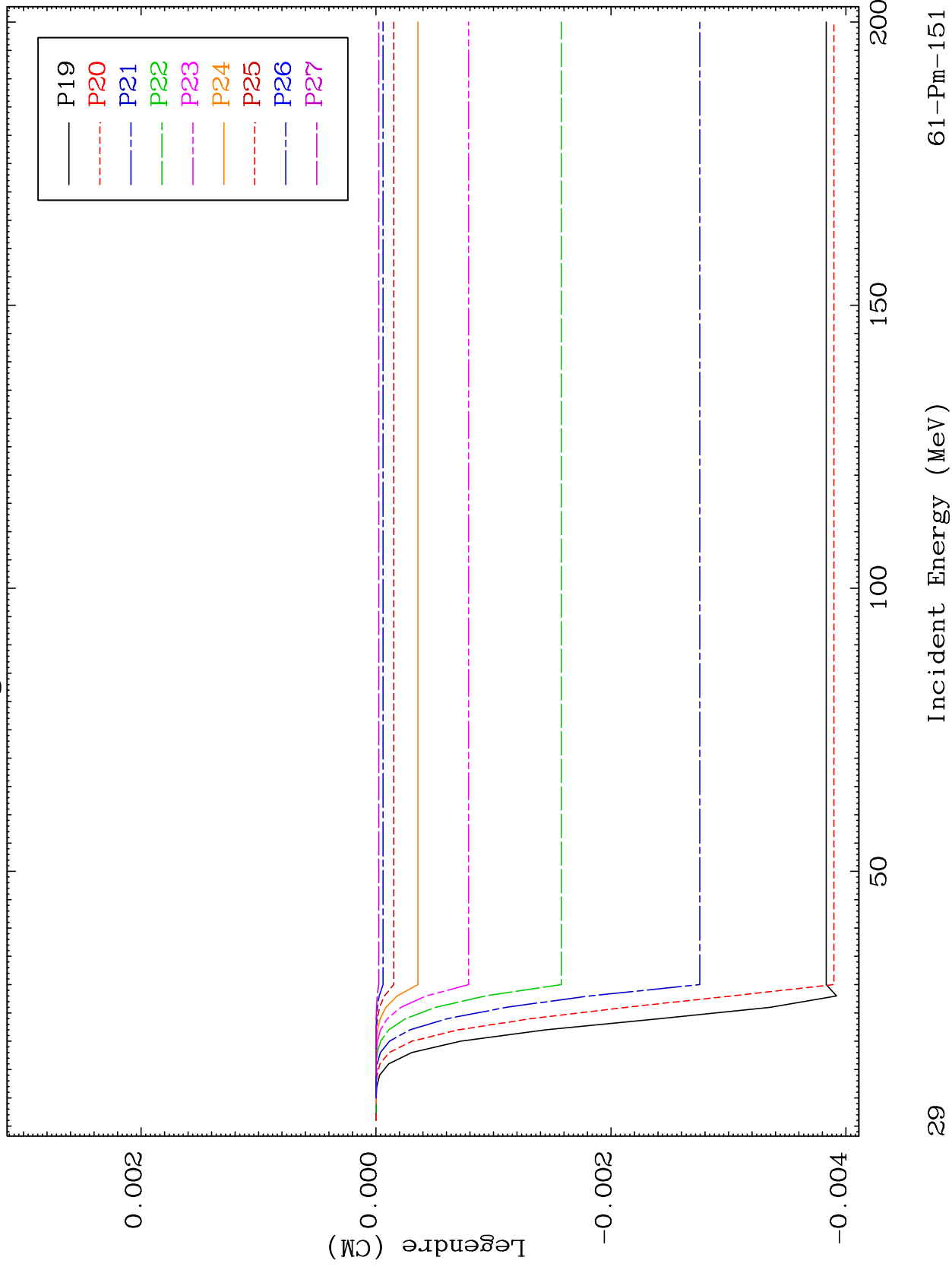
Incident Energy (MeV)

61-Pm-151

MAT 6161

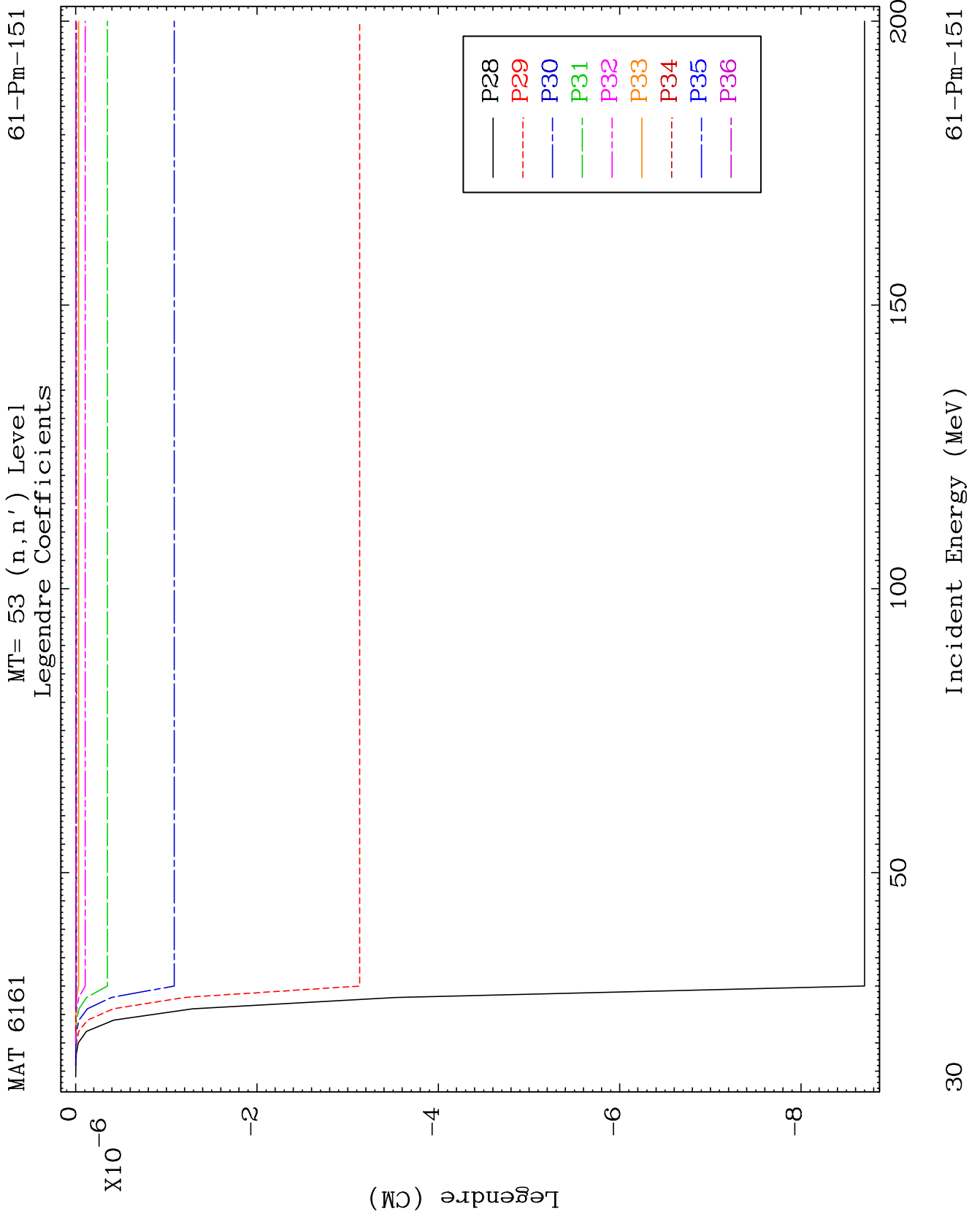
MT= 53 (n,n') Level
Legendre Coefficients

61-Pm-151



29

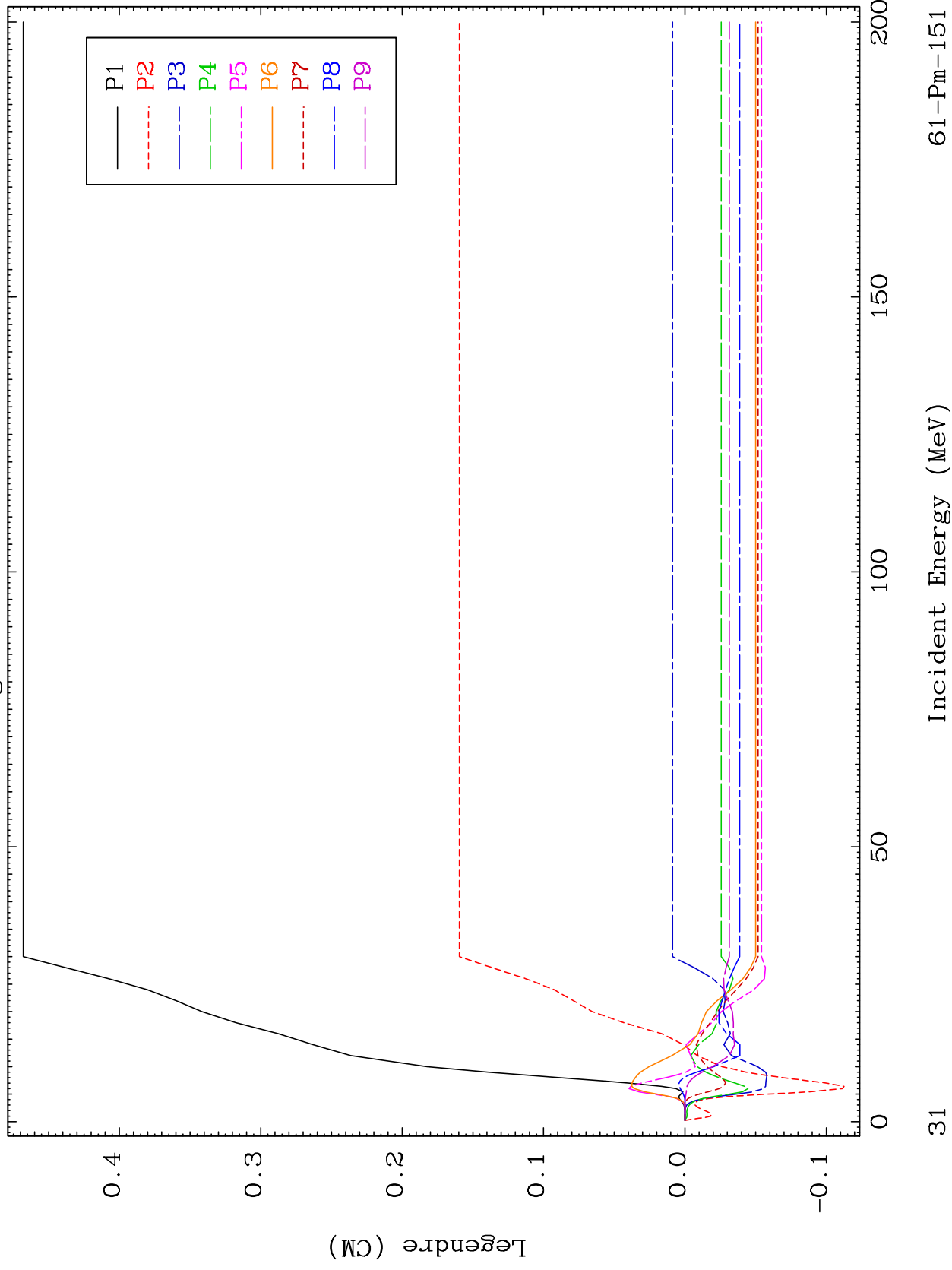
61-Pm-151



MAT 6161

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

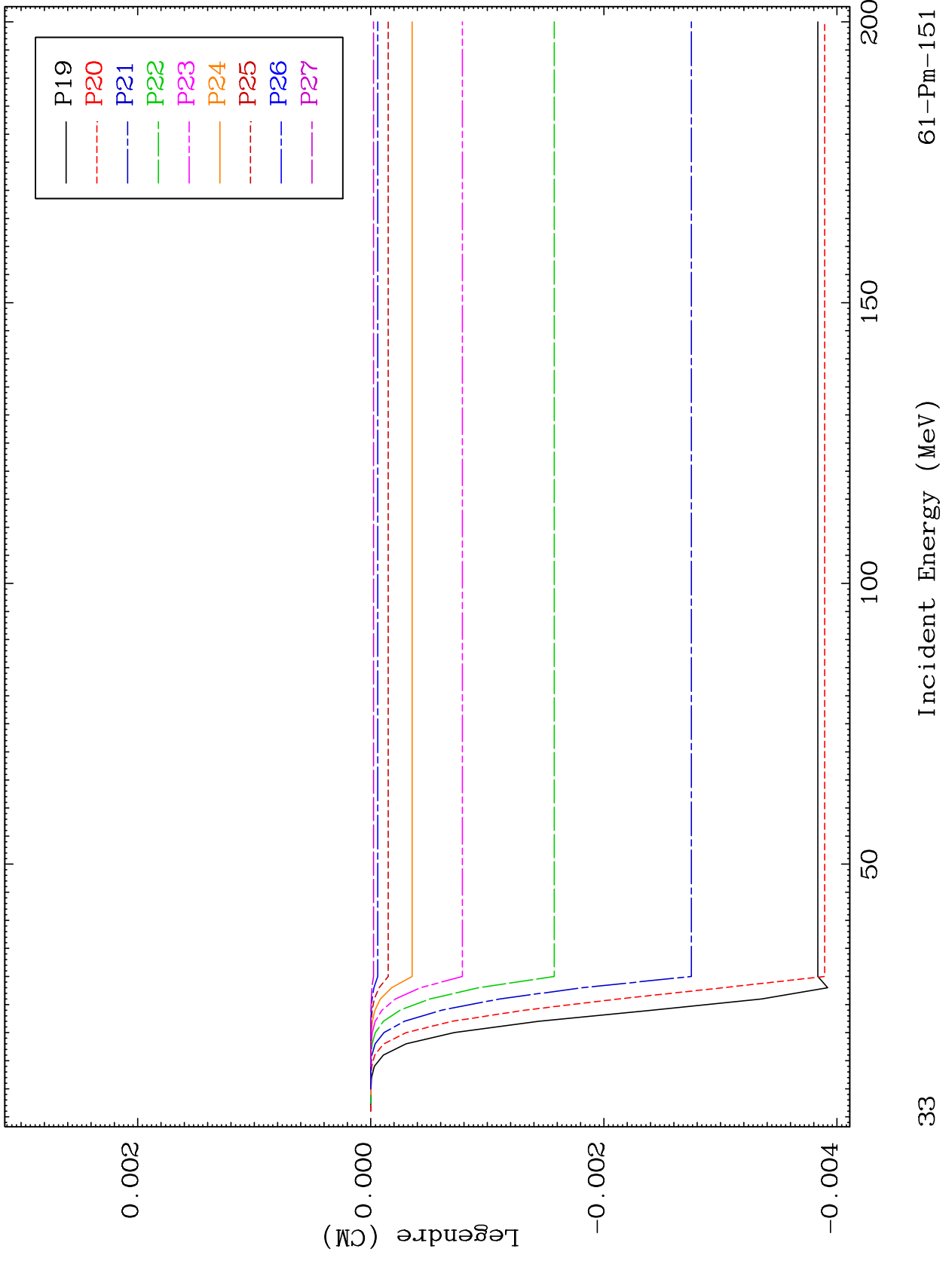
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MAT 6161

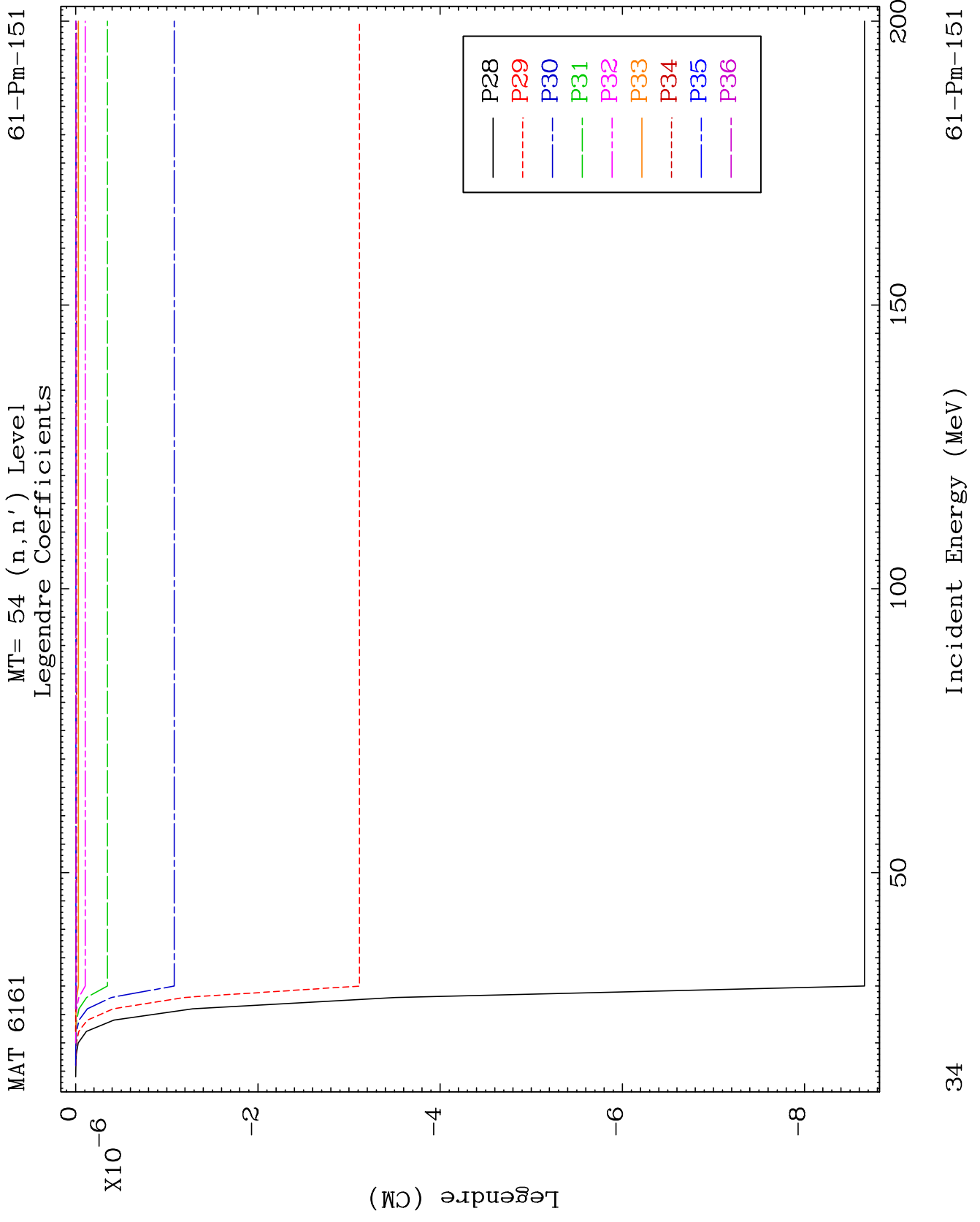
MT= 54 (n,n') Level
Legendre Coefficients

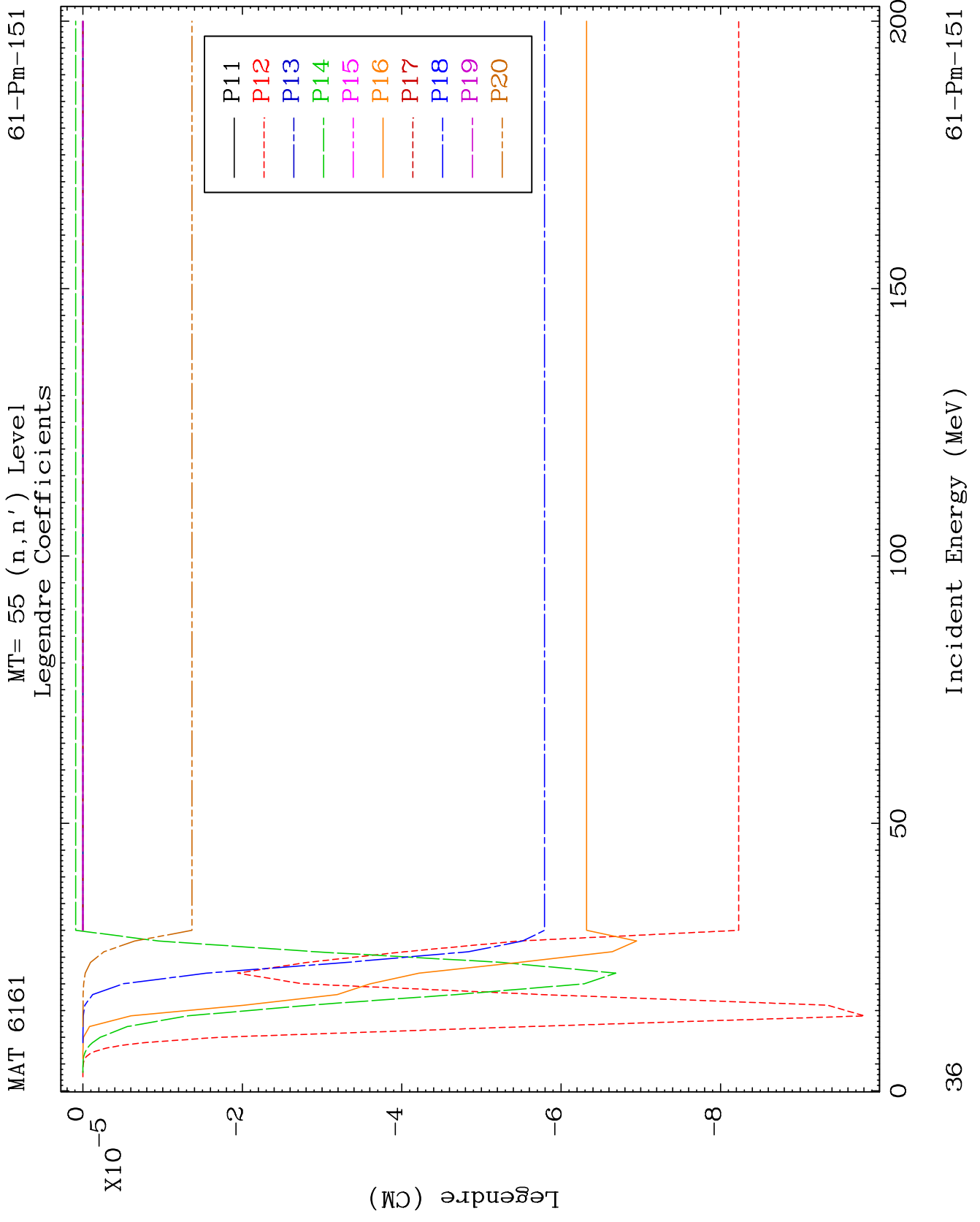
61-Pm-151



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61-Pm-151

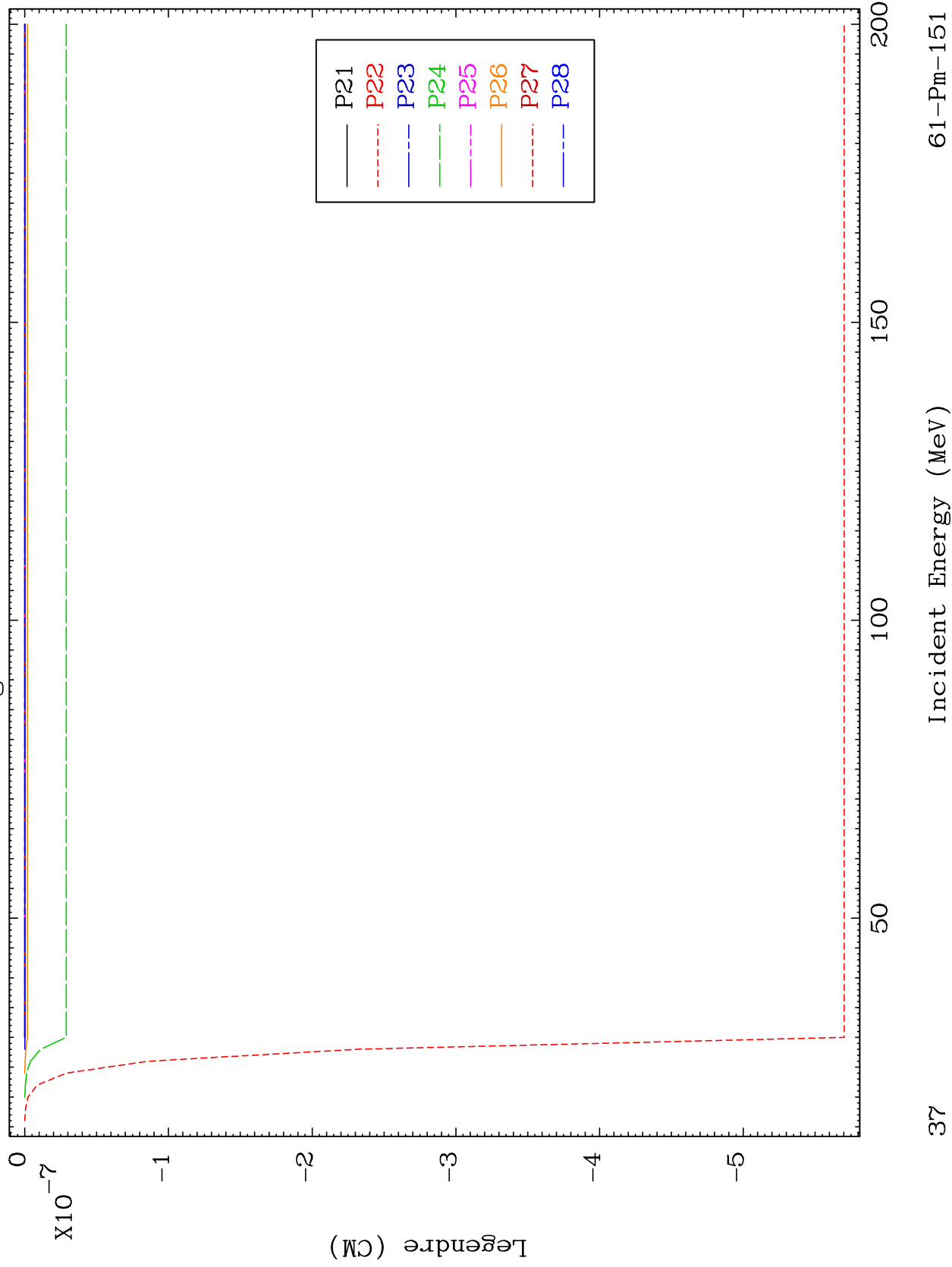




MAT 6161

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

61-Pm-151



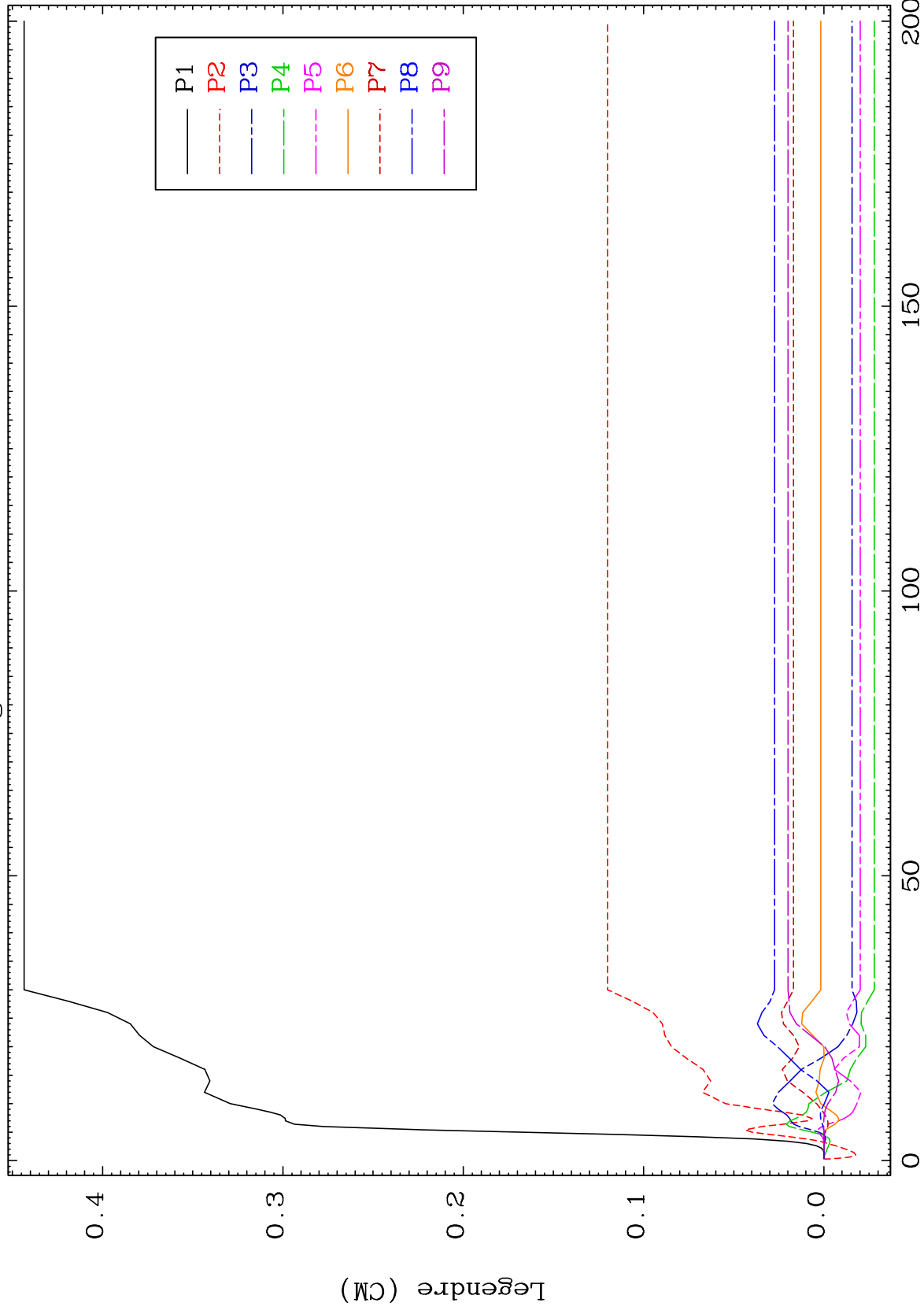
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61-Pm-151

MAT 6161

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

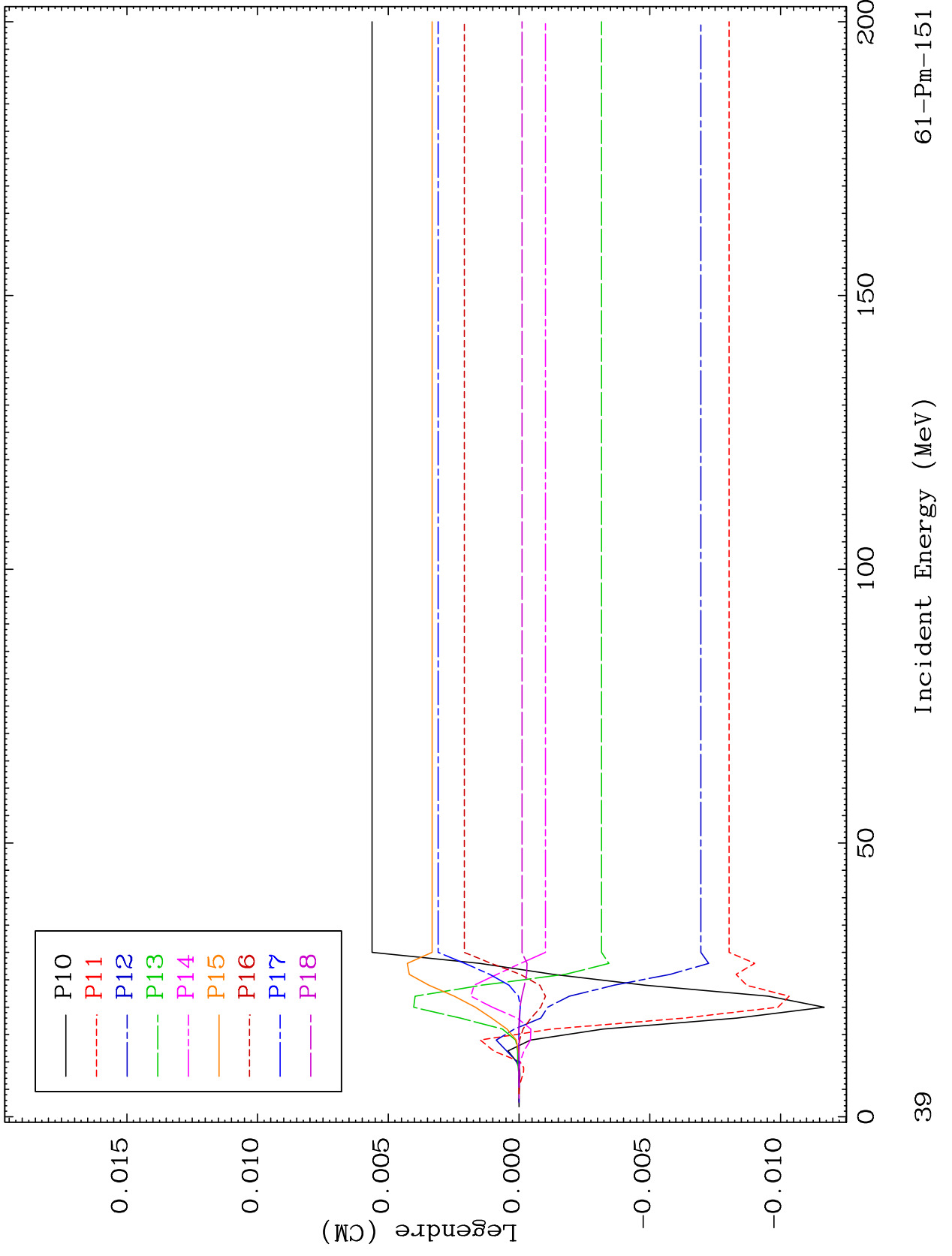
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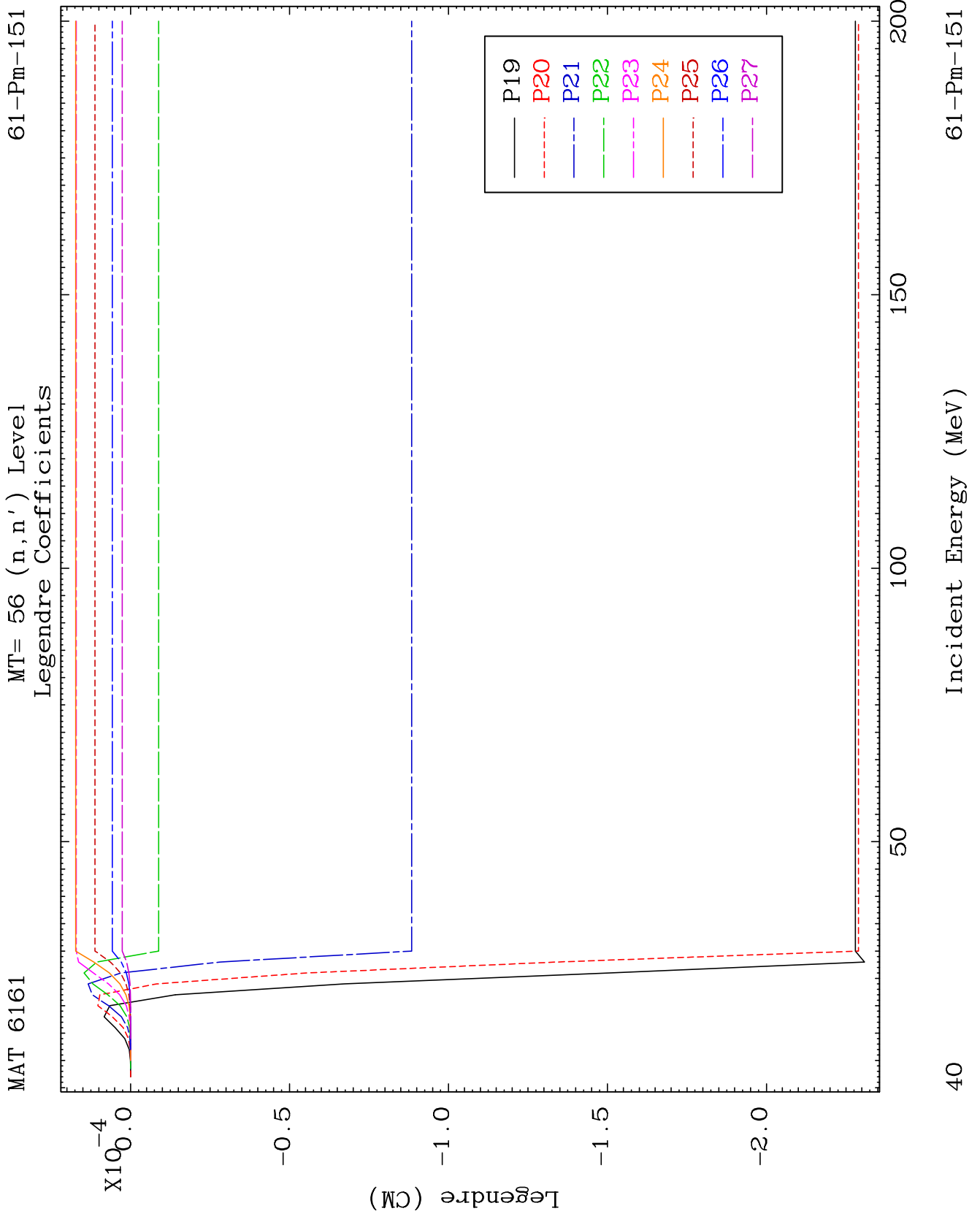


38

Incident Energy (MeV)

61-Pm-151

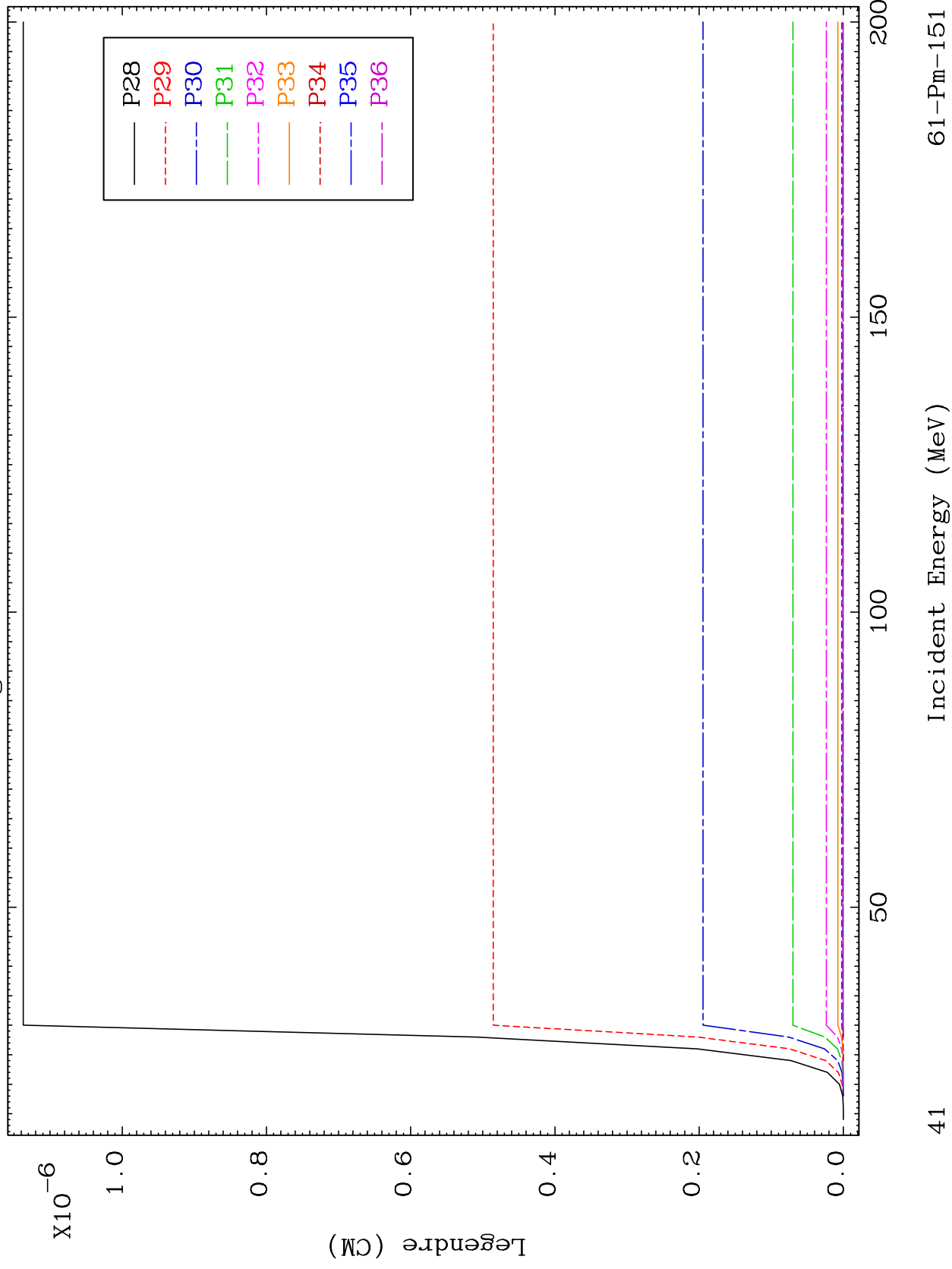




MAT 6161

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

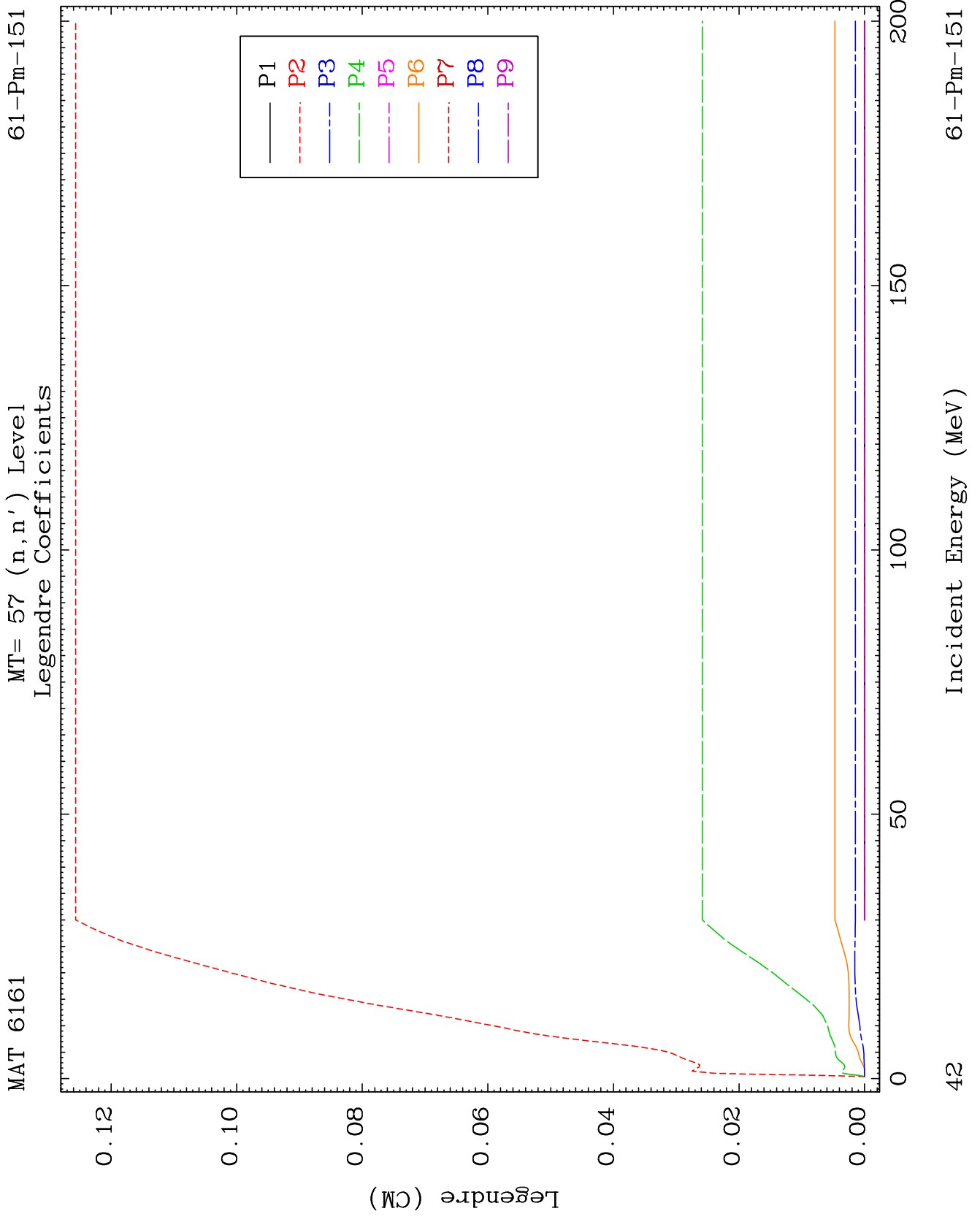
61-Pm-151



41

Incident Energy (MeV)

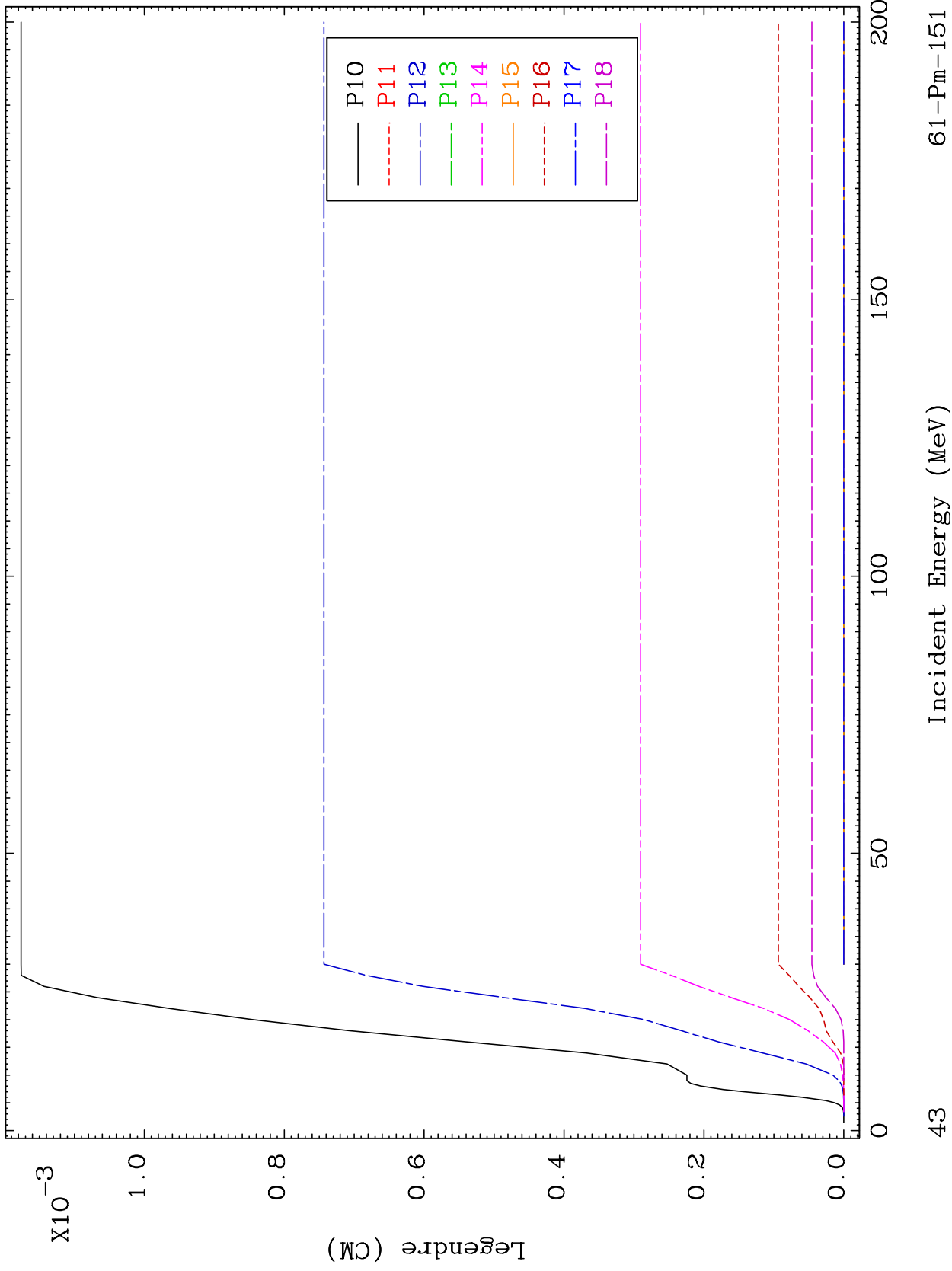
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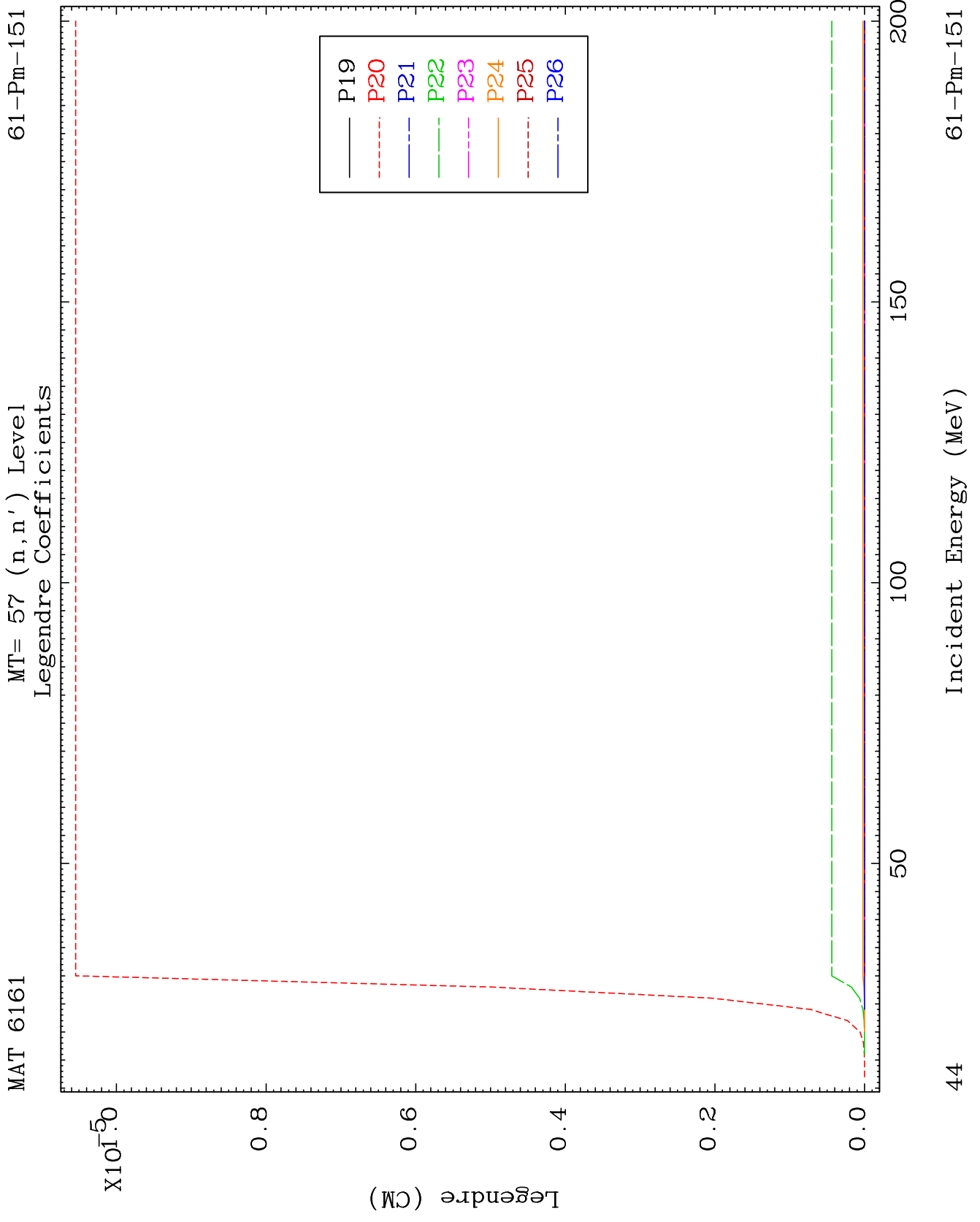


MAT 6161

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

61-Pm-151

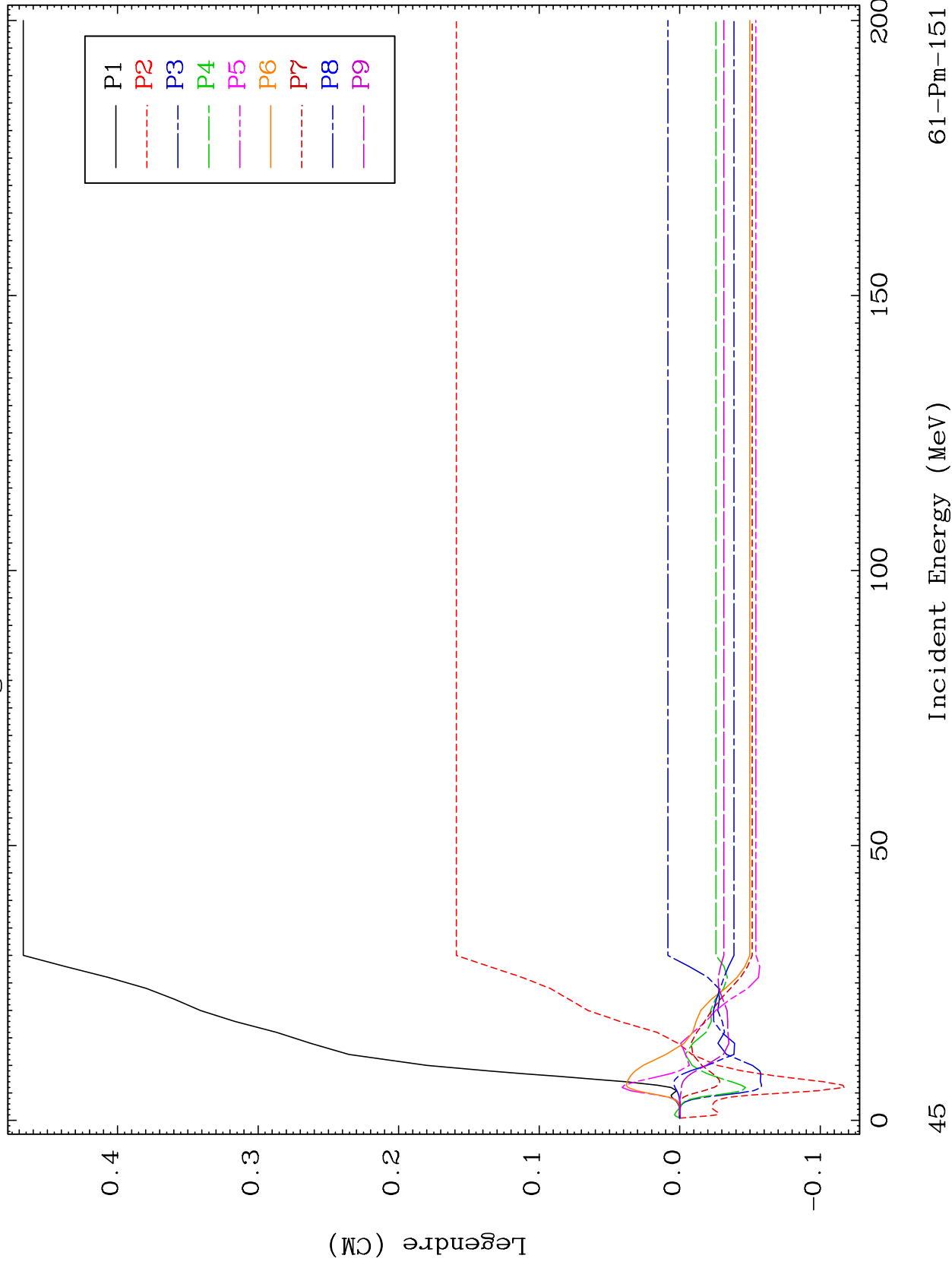




MAT 6161

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

61-Pm-151



61-Pm-151

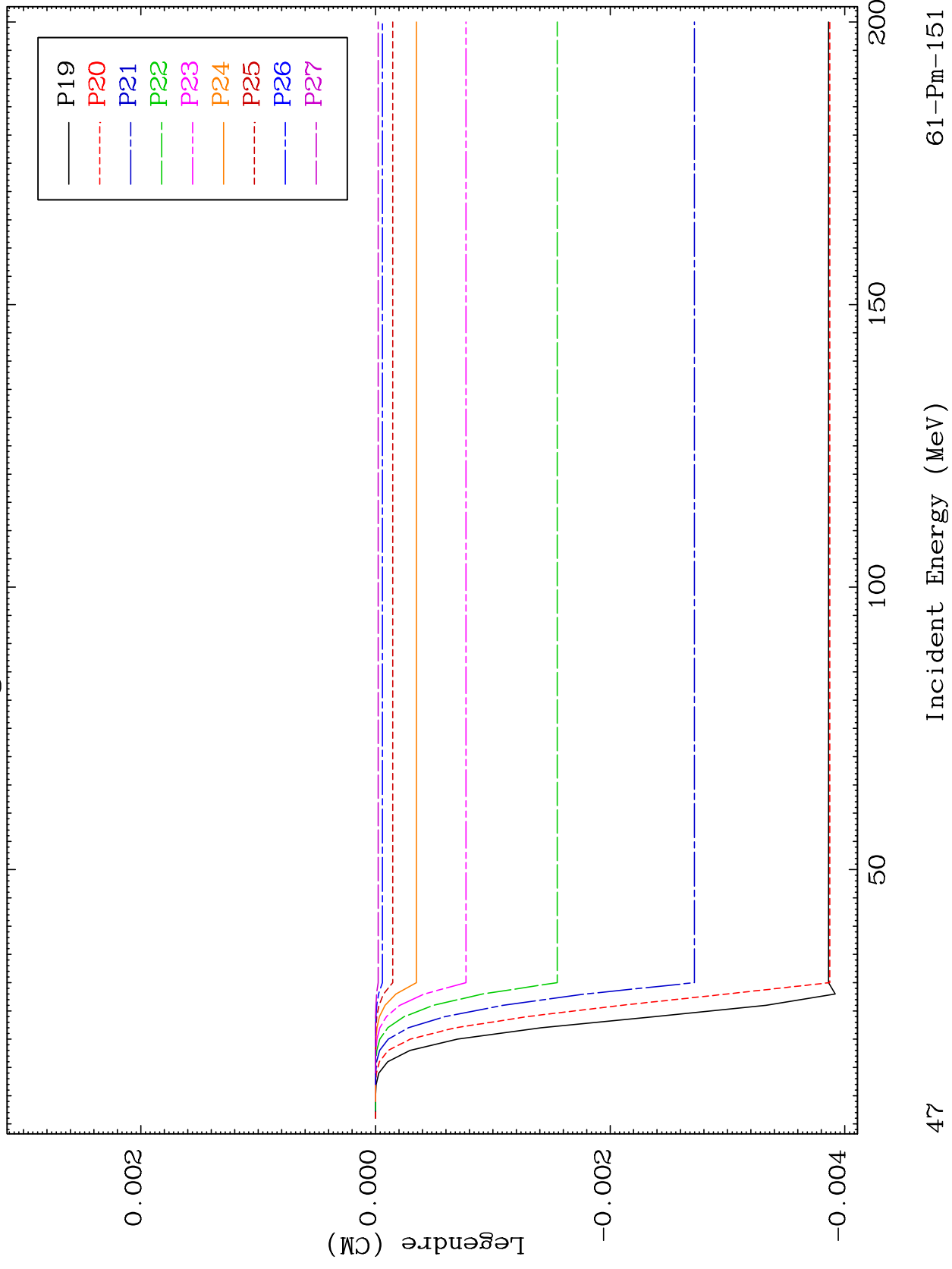
Incident Energy (MeV)

45

MAT 6161

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

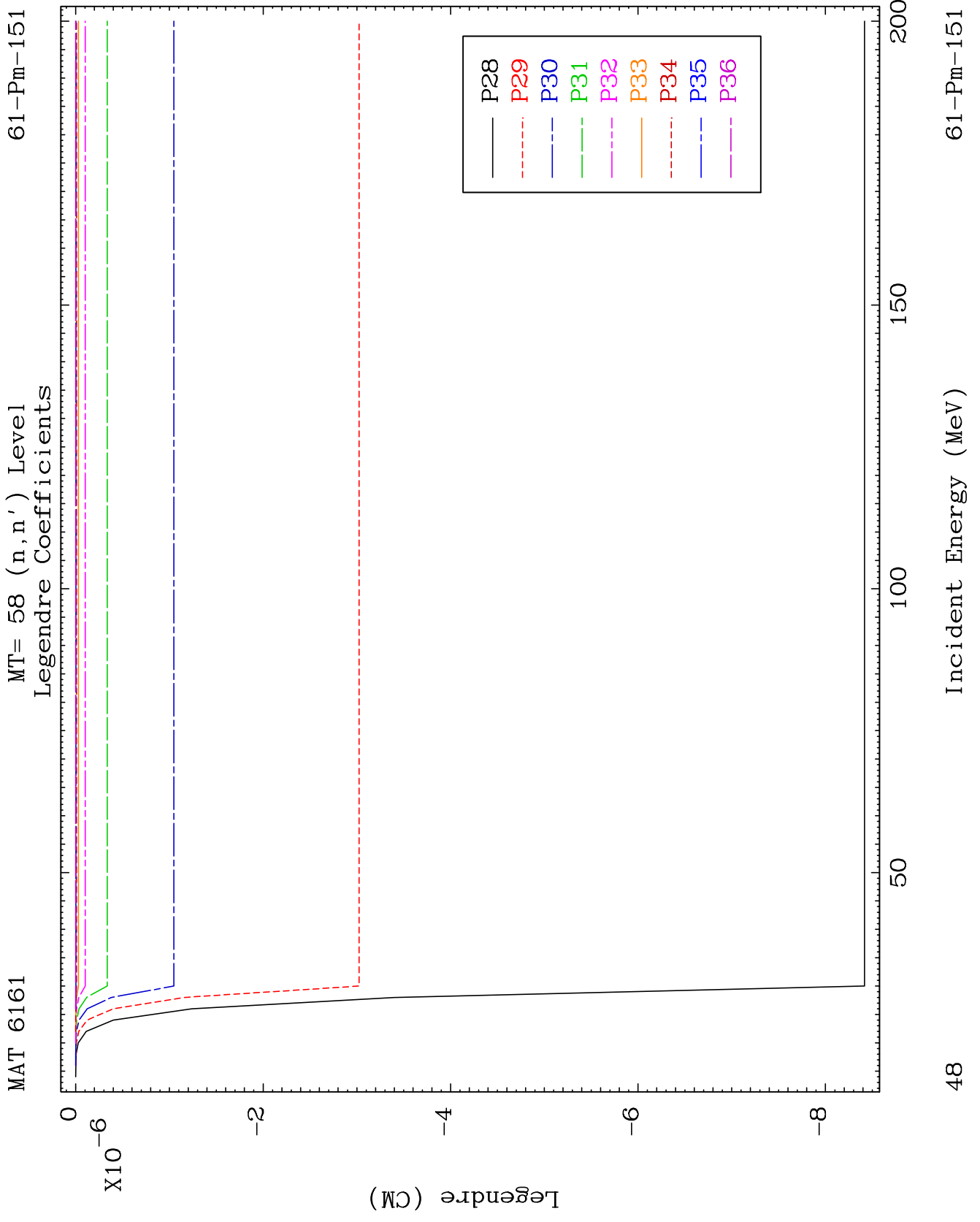
61-Pm-151



47

Incident Energy (MeV)

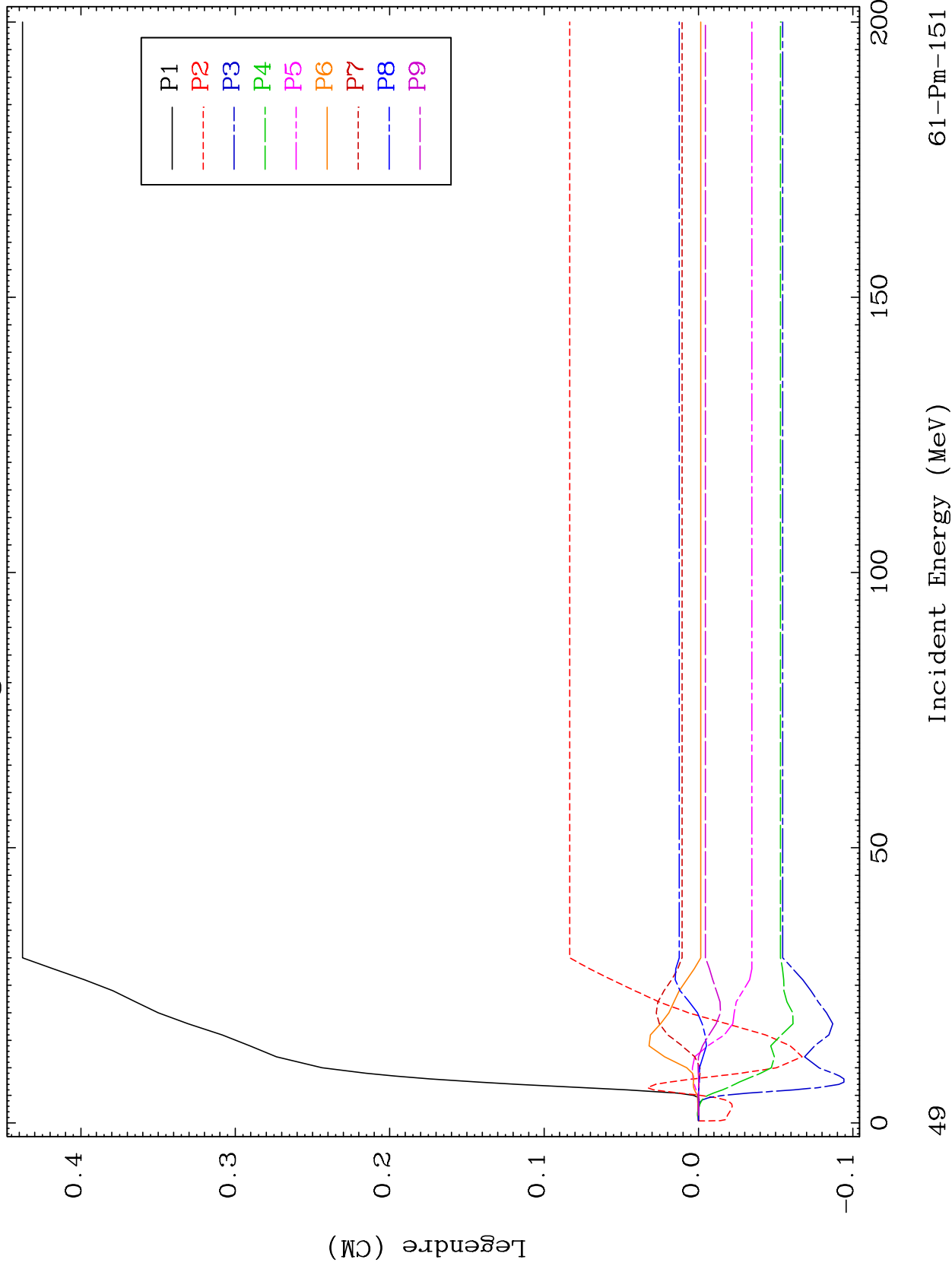
61-Pm-151



MAT 6161

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

61-Pm-151



61-Pm-151

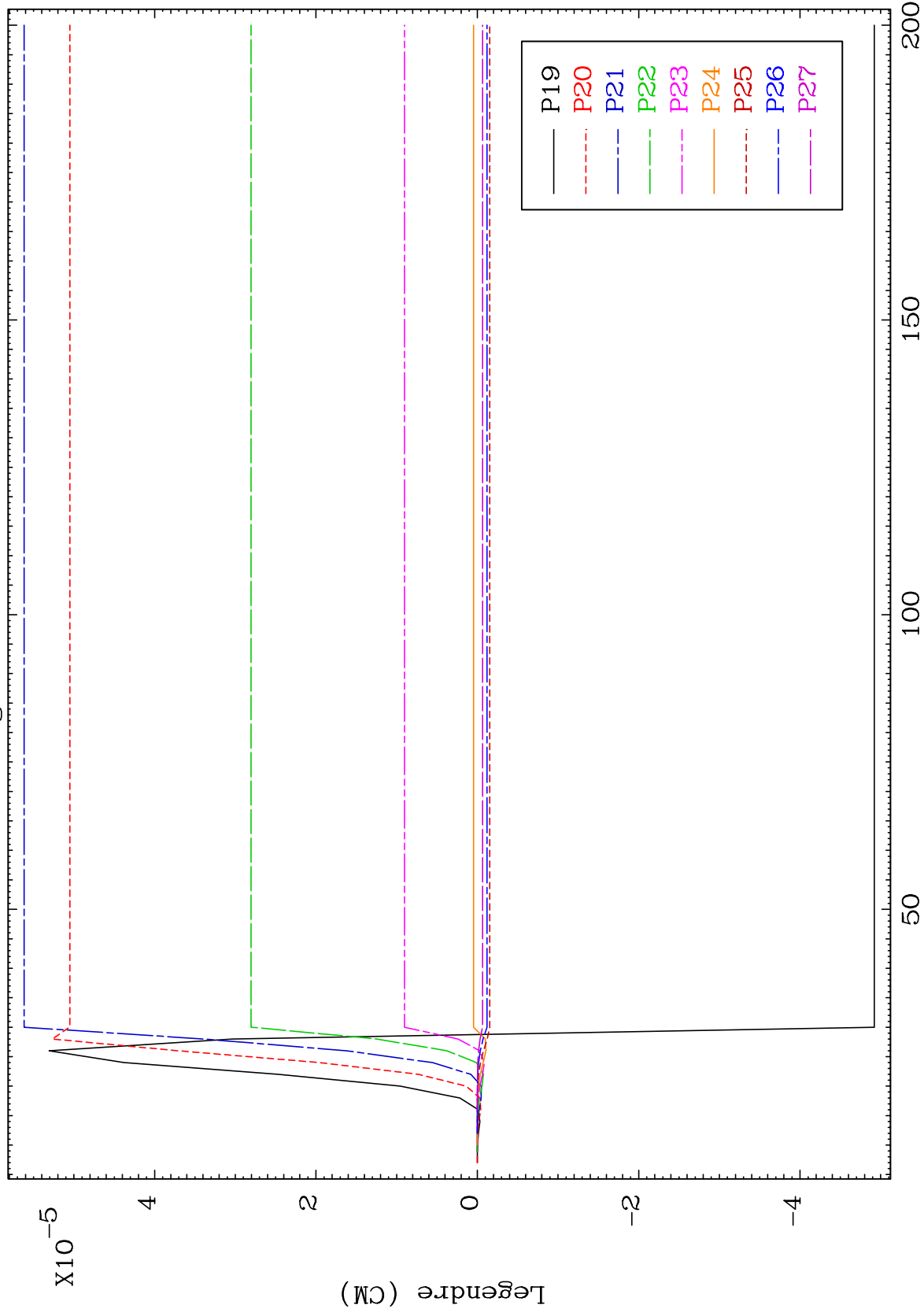
Incident Energy (MeV)

49

MAT 6161

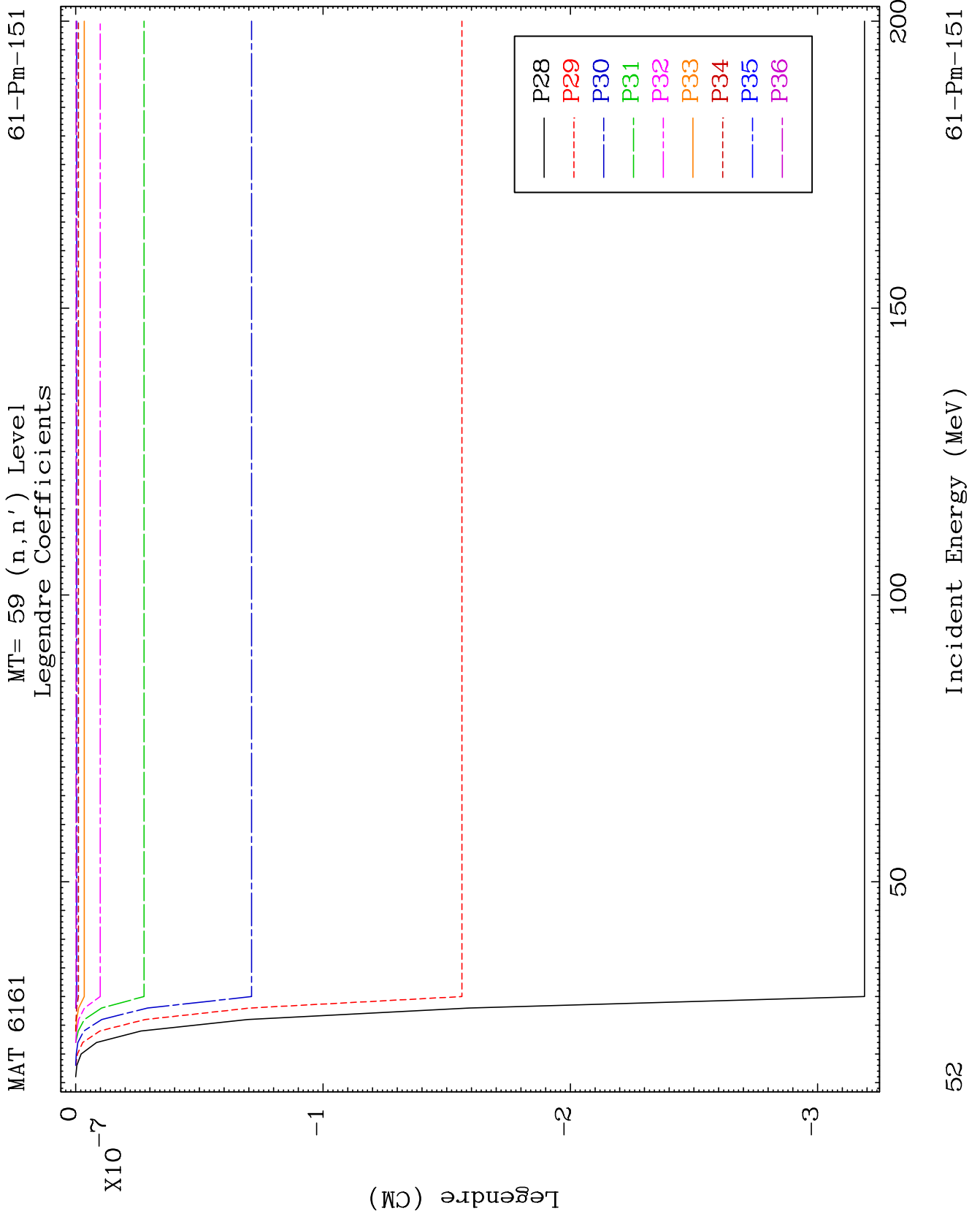
MT= 59 (n,n') Level
Legendre Coefficients

61-Pm-151



51

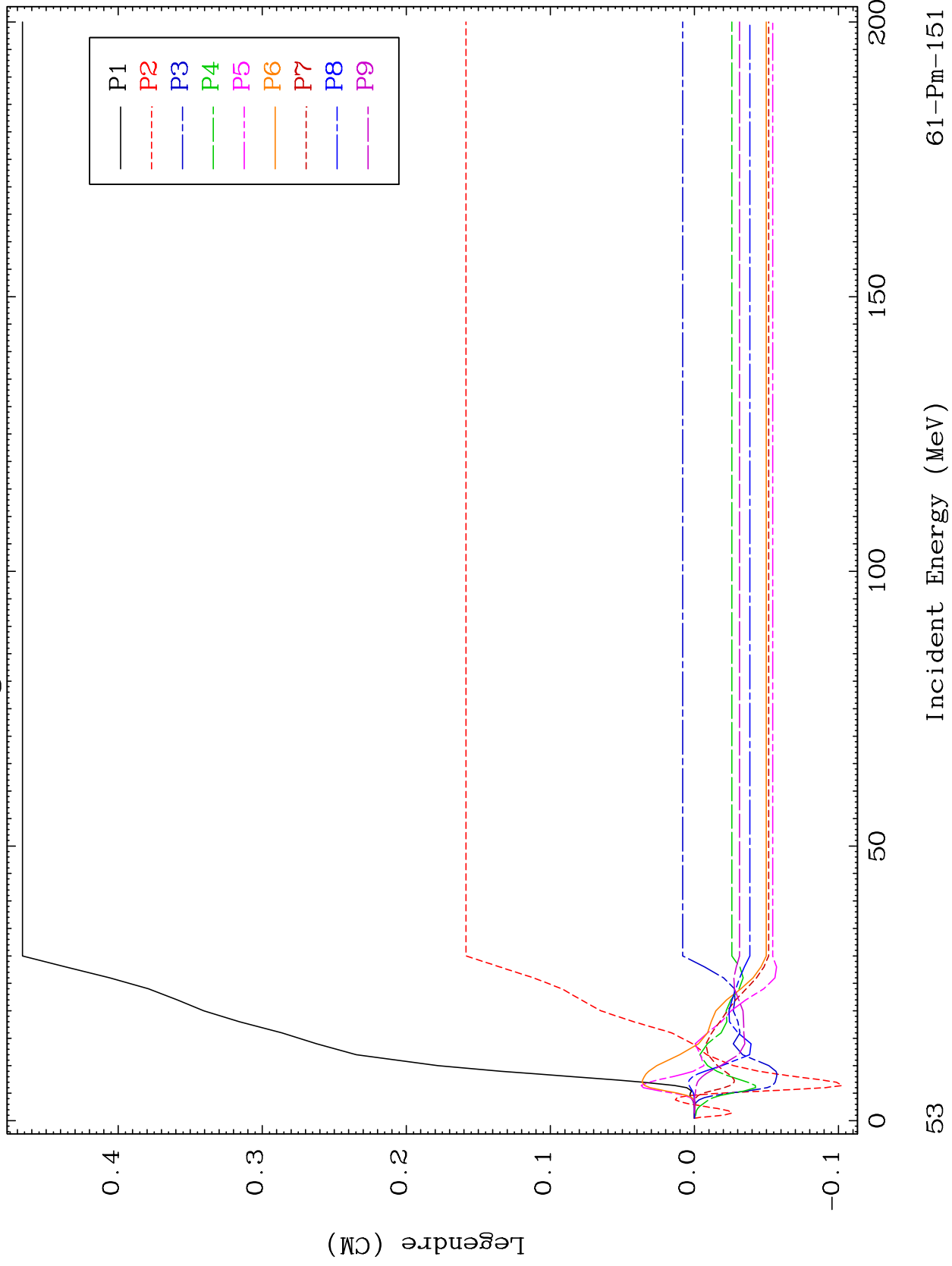
61-Pm-151



MAT 6161

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

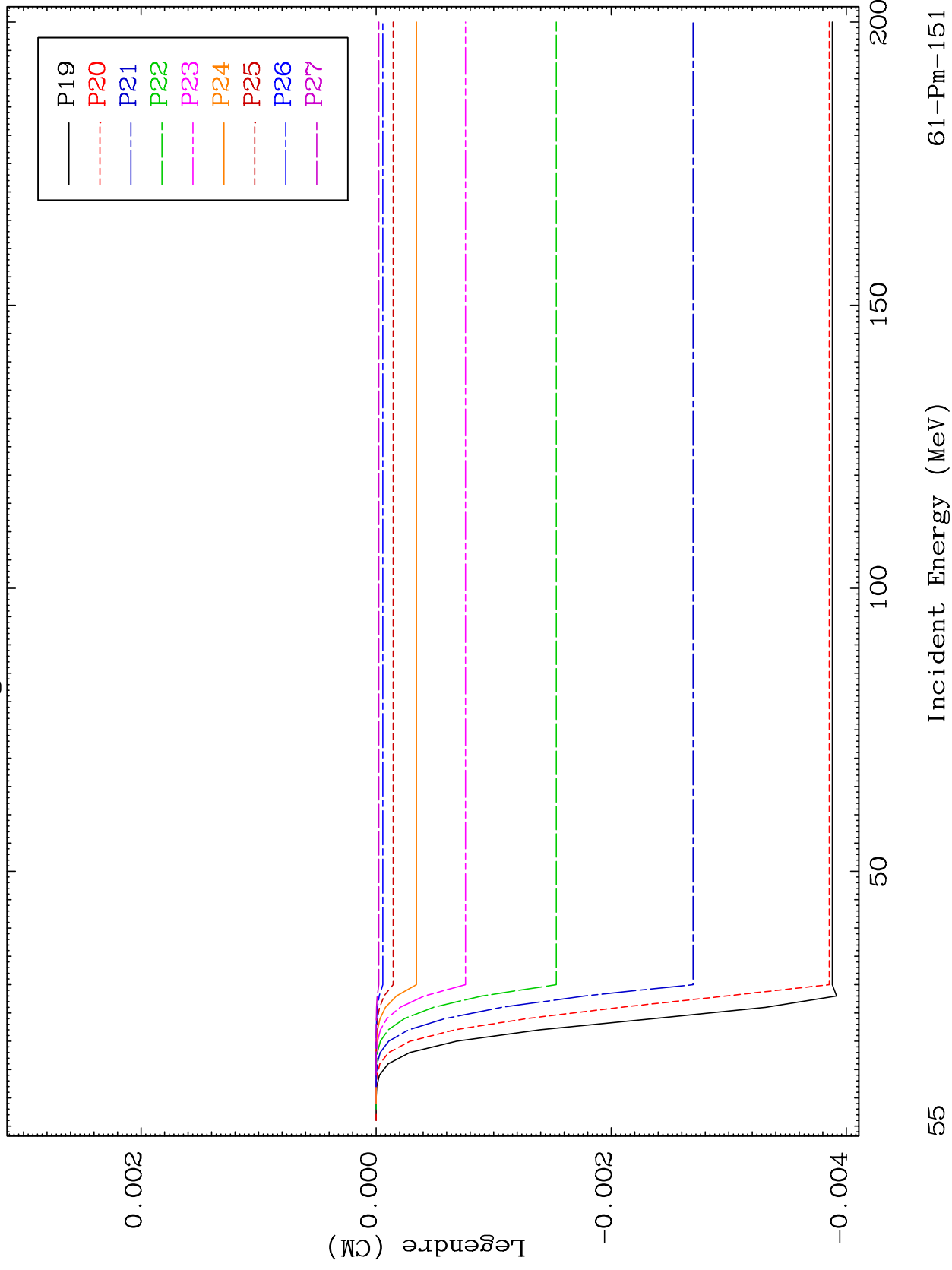
61-Pm-151



MAT 6161

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

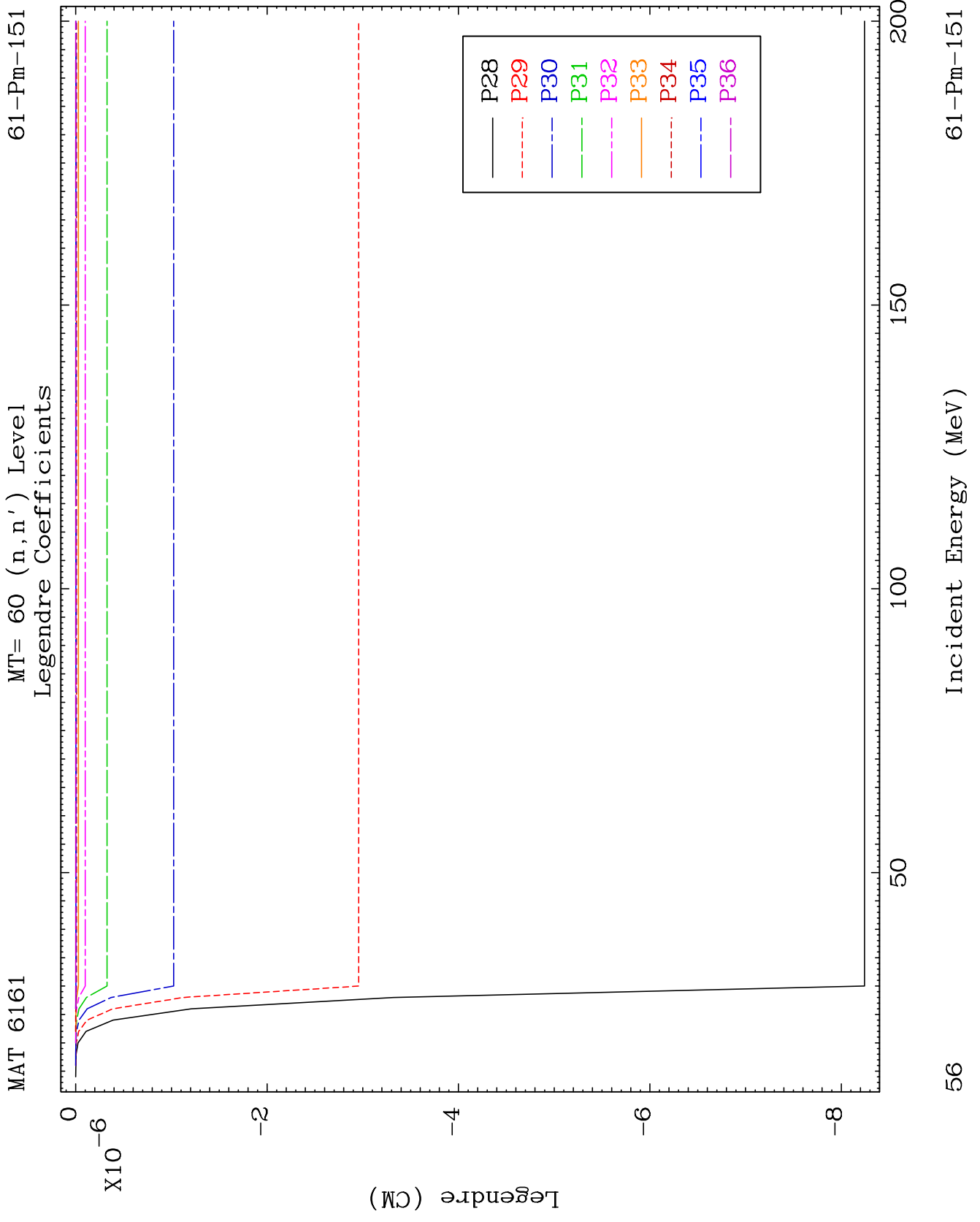
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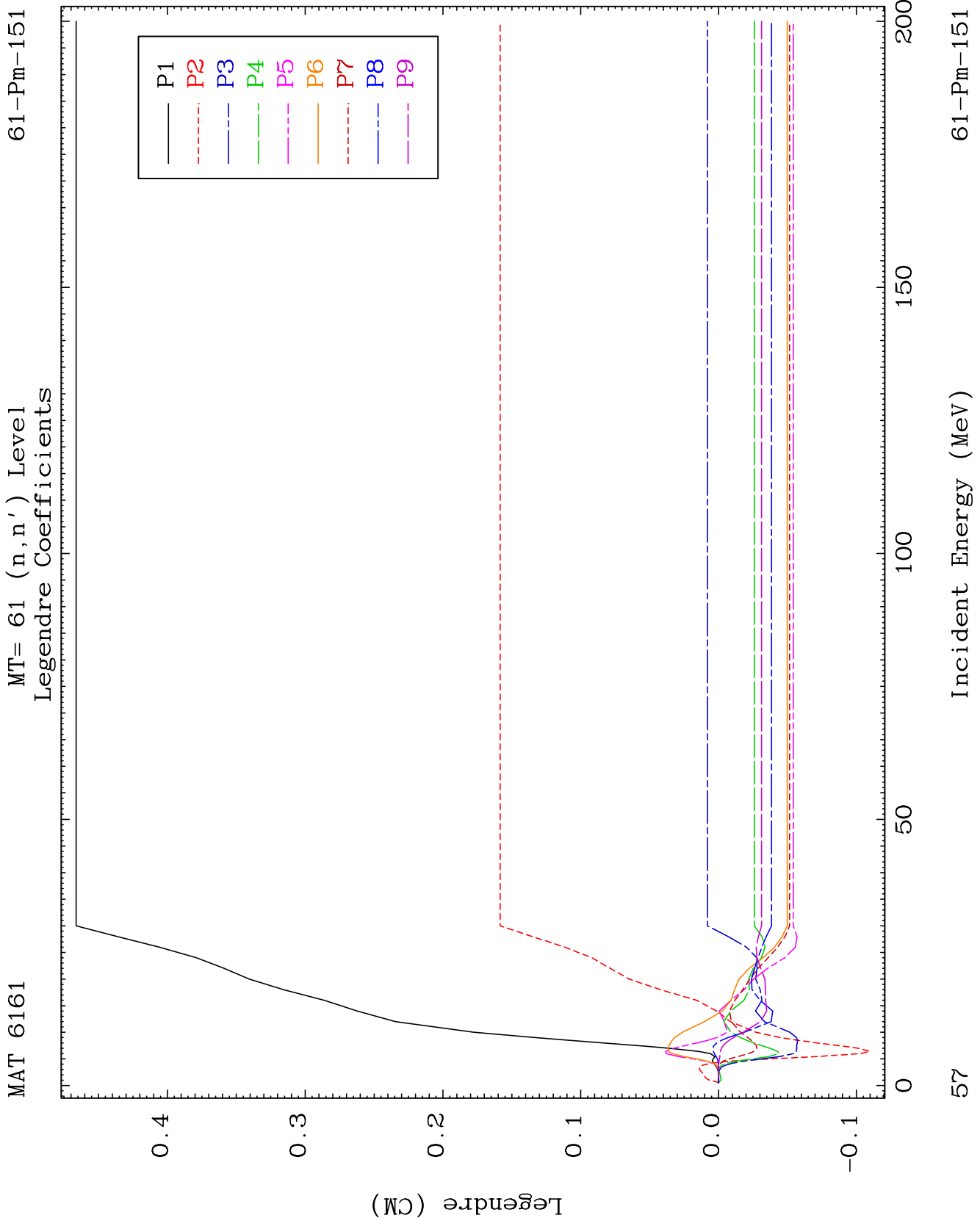


55

Incident Energy (MeV)

61-Pm-151

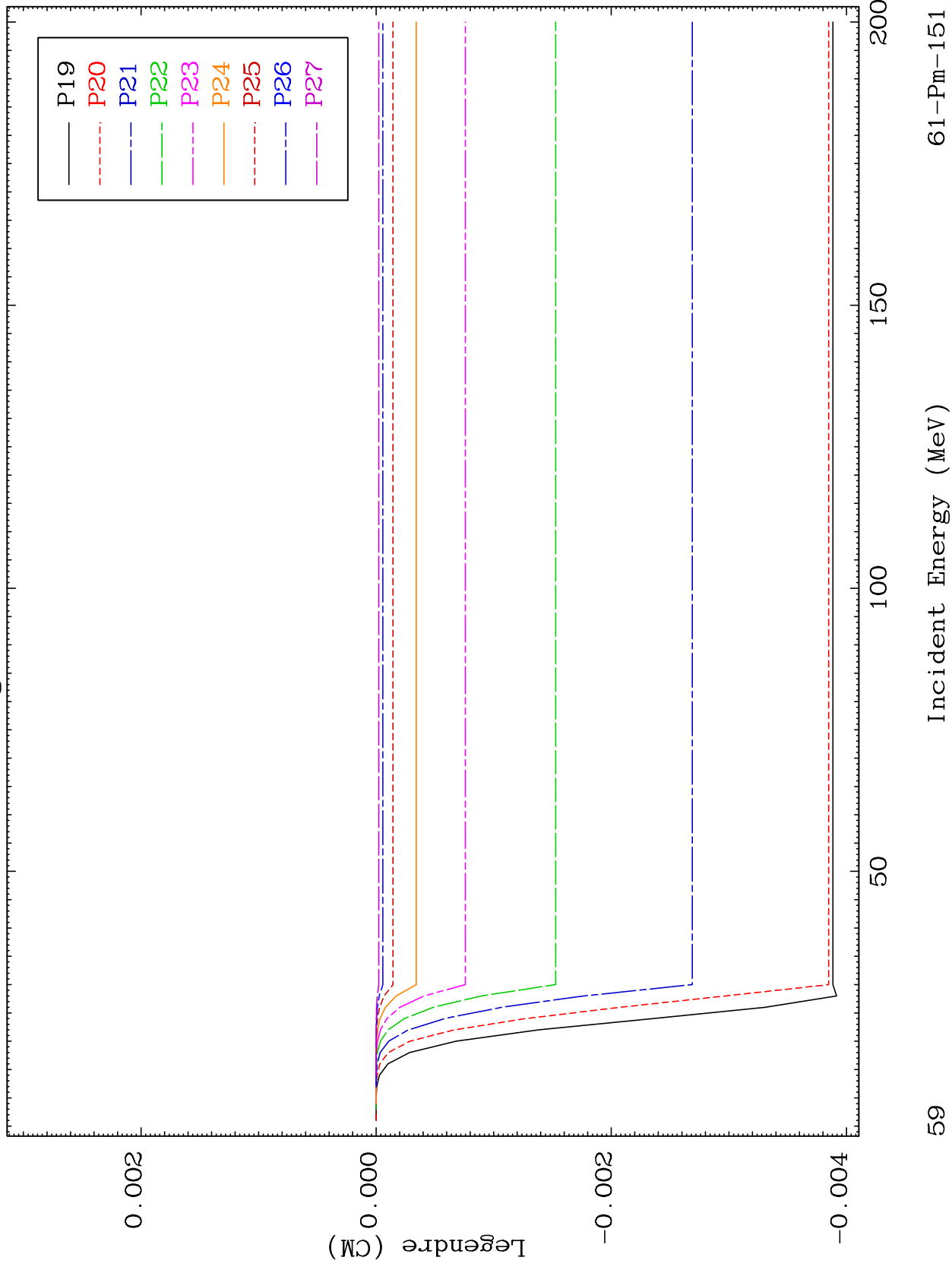




MAT 6161

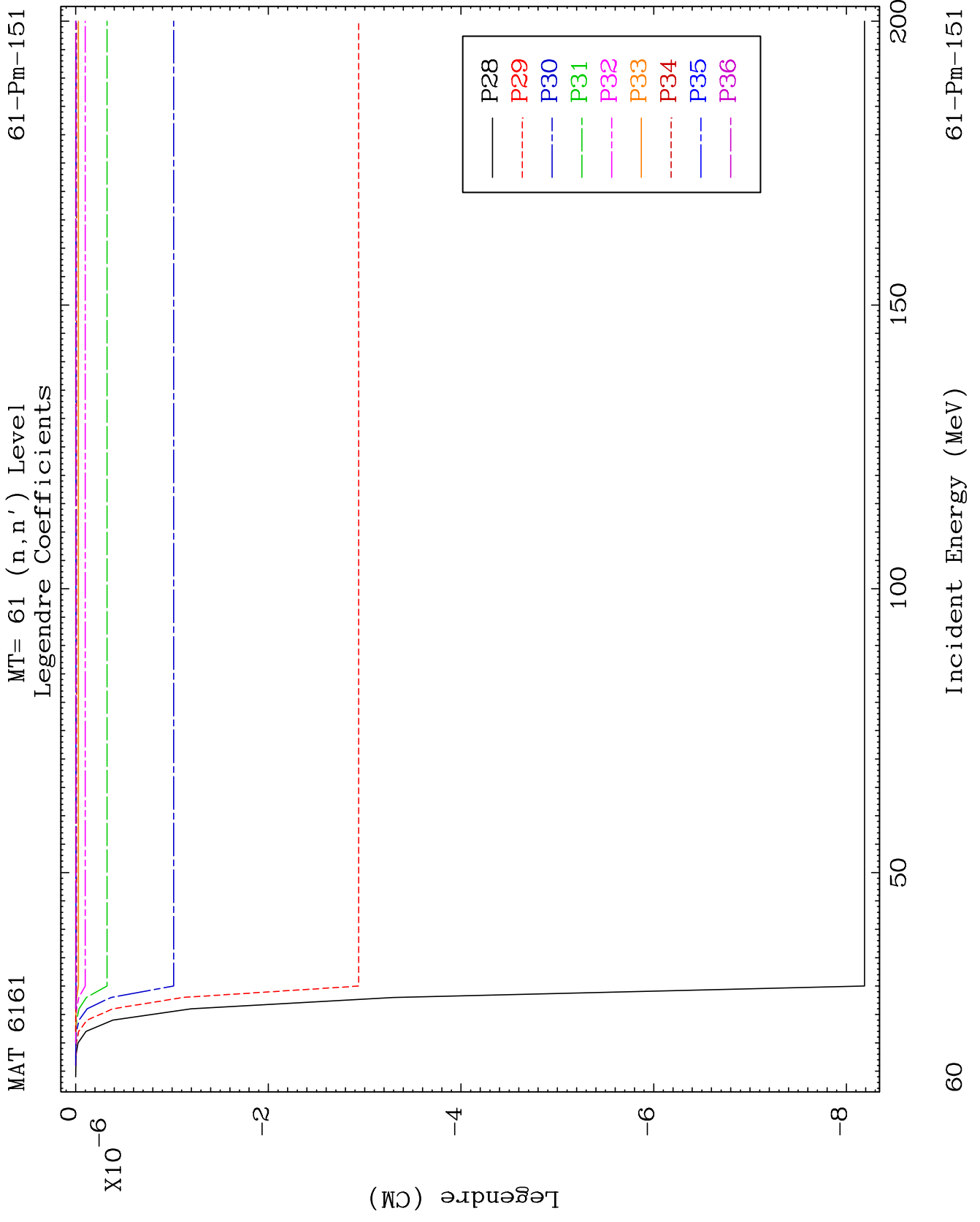
MT= 61 (n,n') Level
Legendre Coefficients

61-Pm-151



59

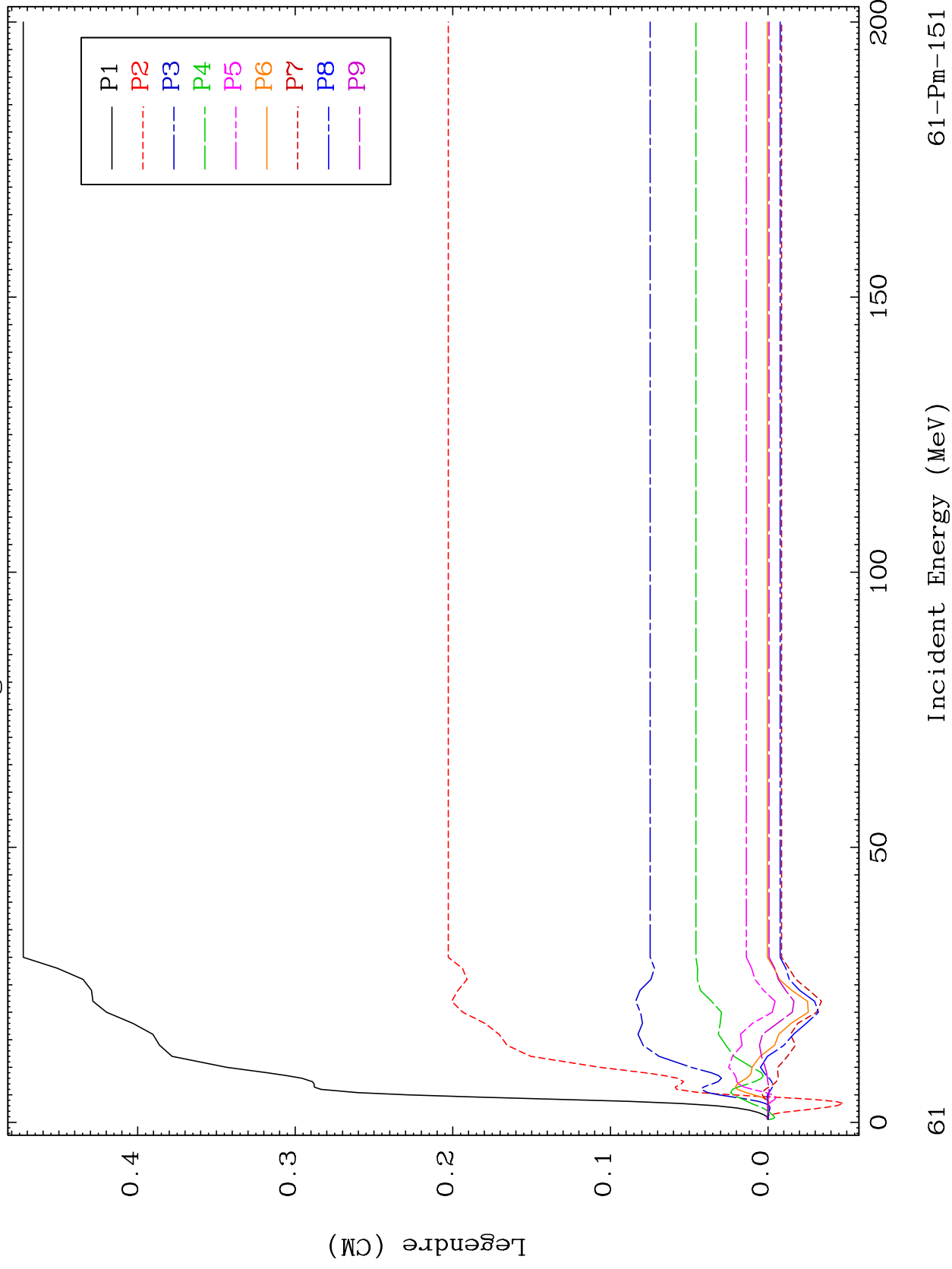
61-Pm-151



MAT 6161

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

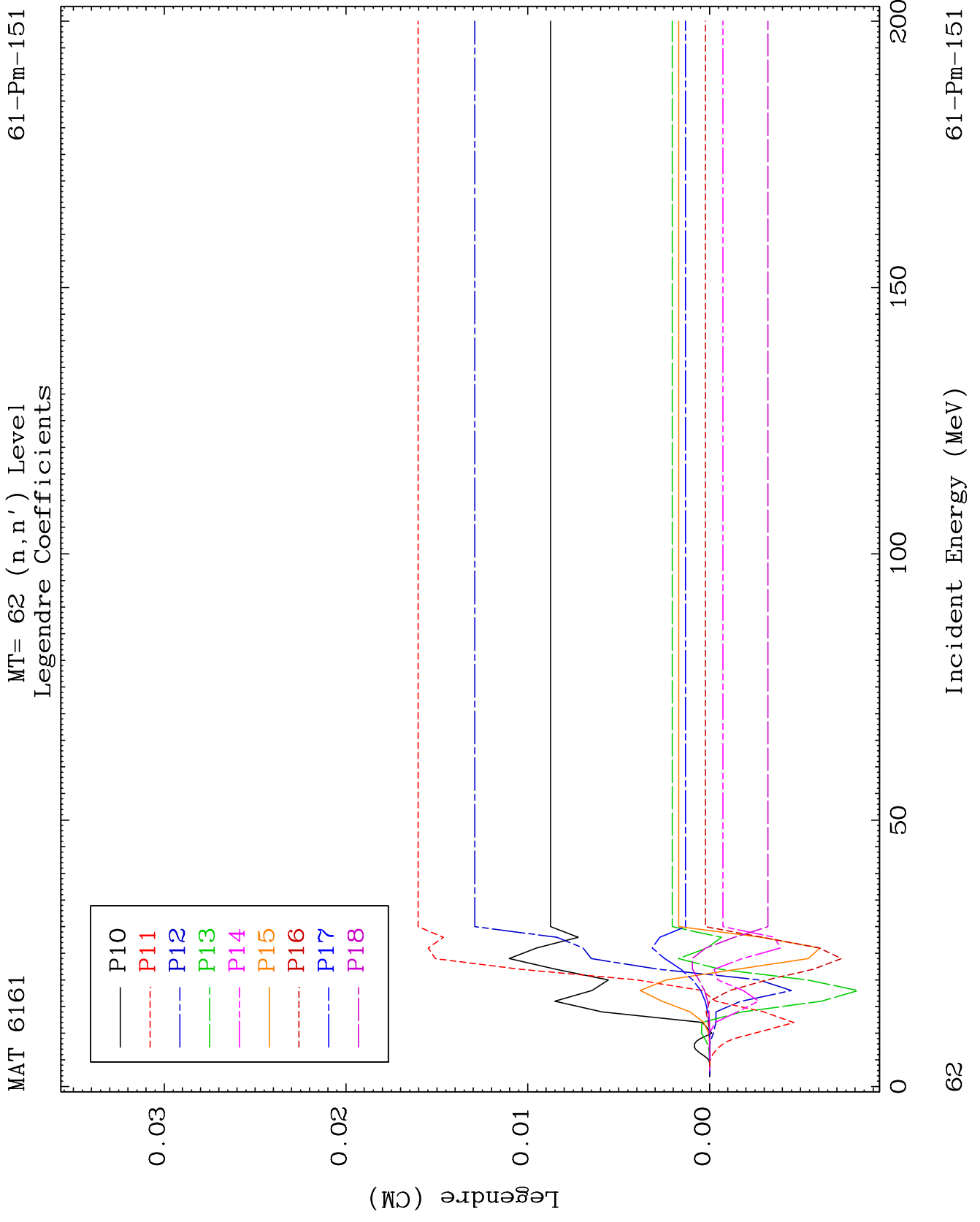
61-Pm-151



61-Pm-151

Incident Energy (MeV)

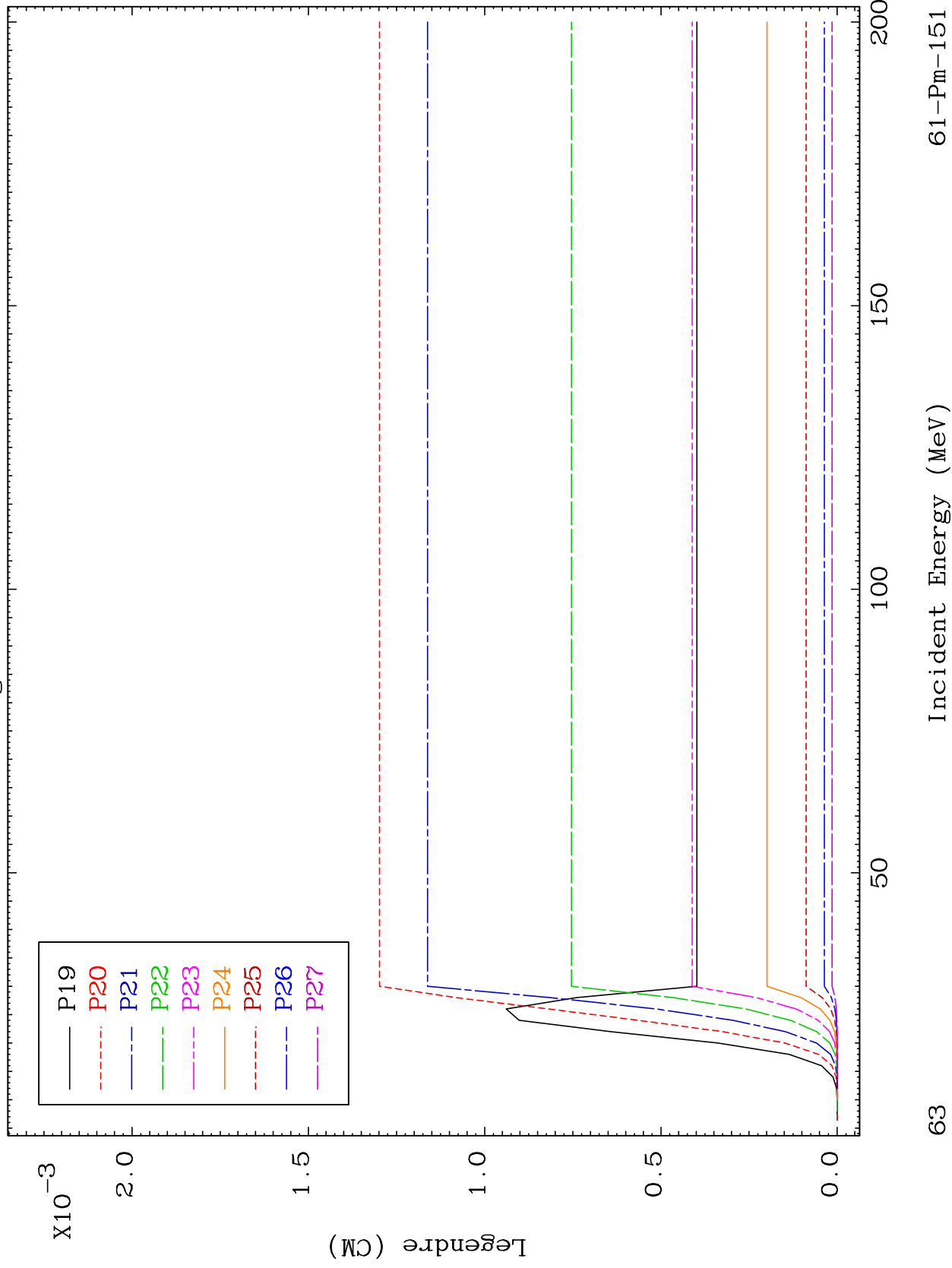
61



MAT 6161

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

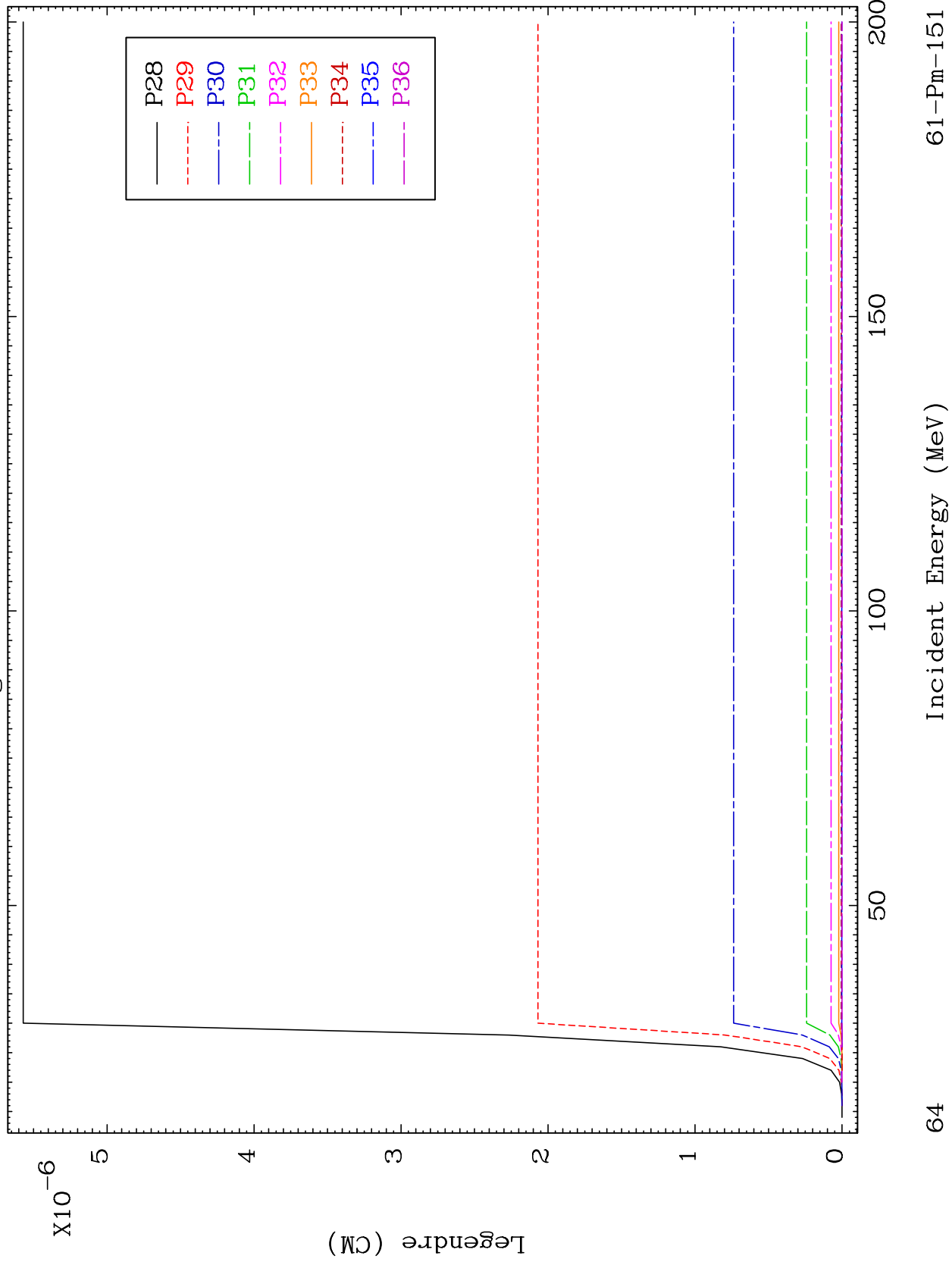
61-Pm-151



MAT 6161

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

61-Pm-151



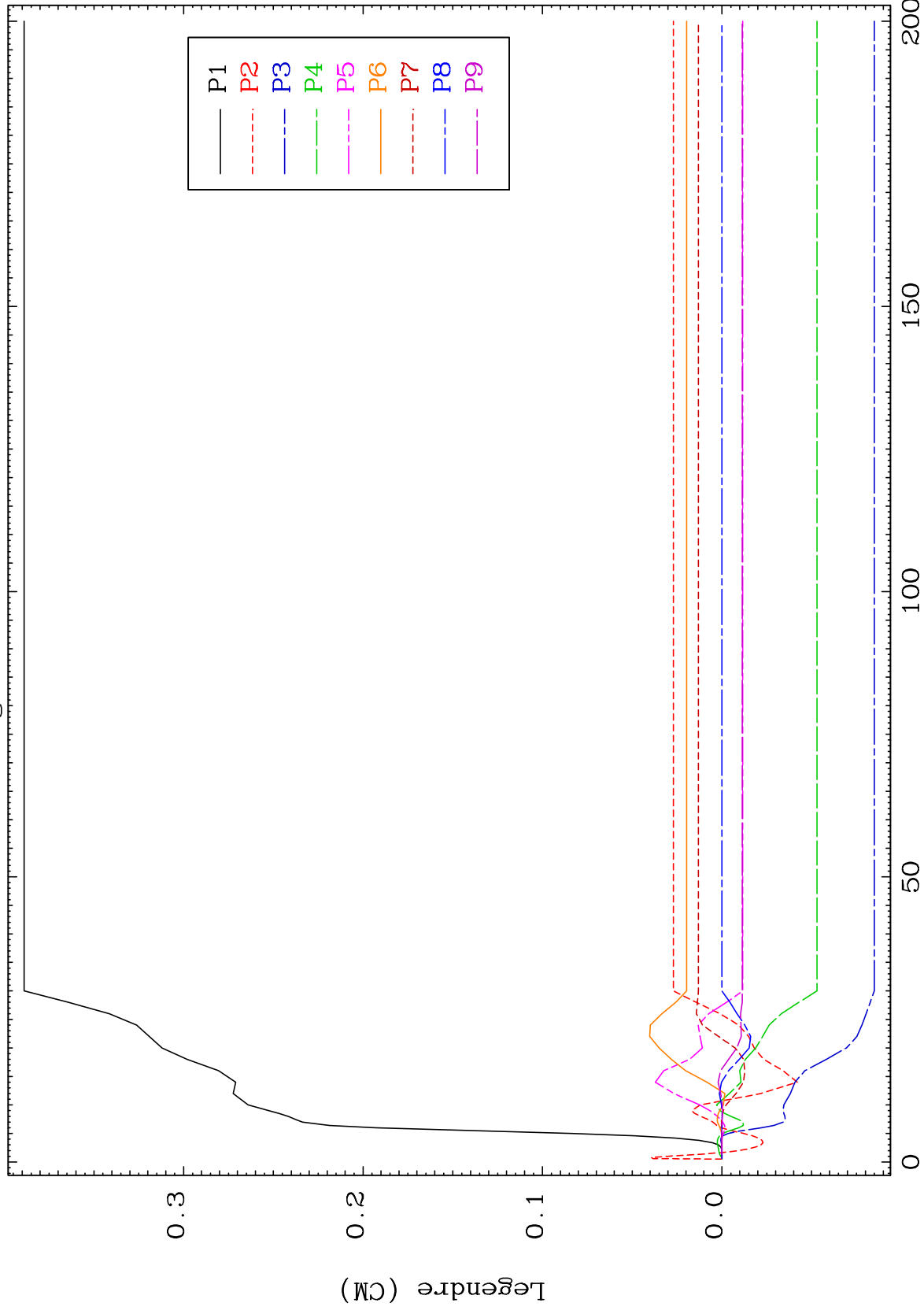
64

61-Pm-151

MAT 6161

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

61-Pm-151



65

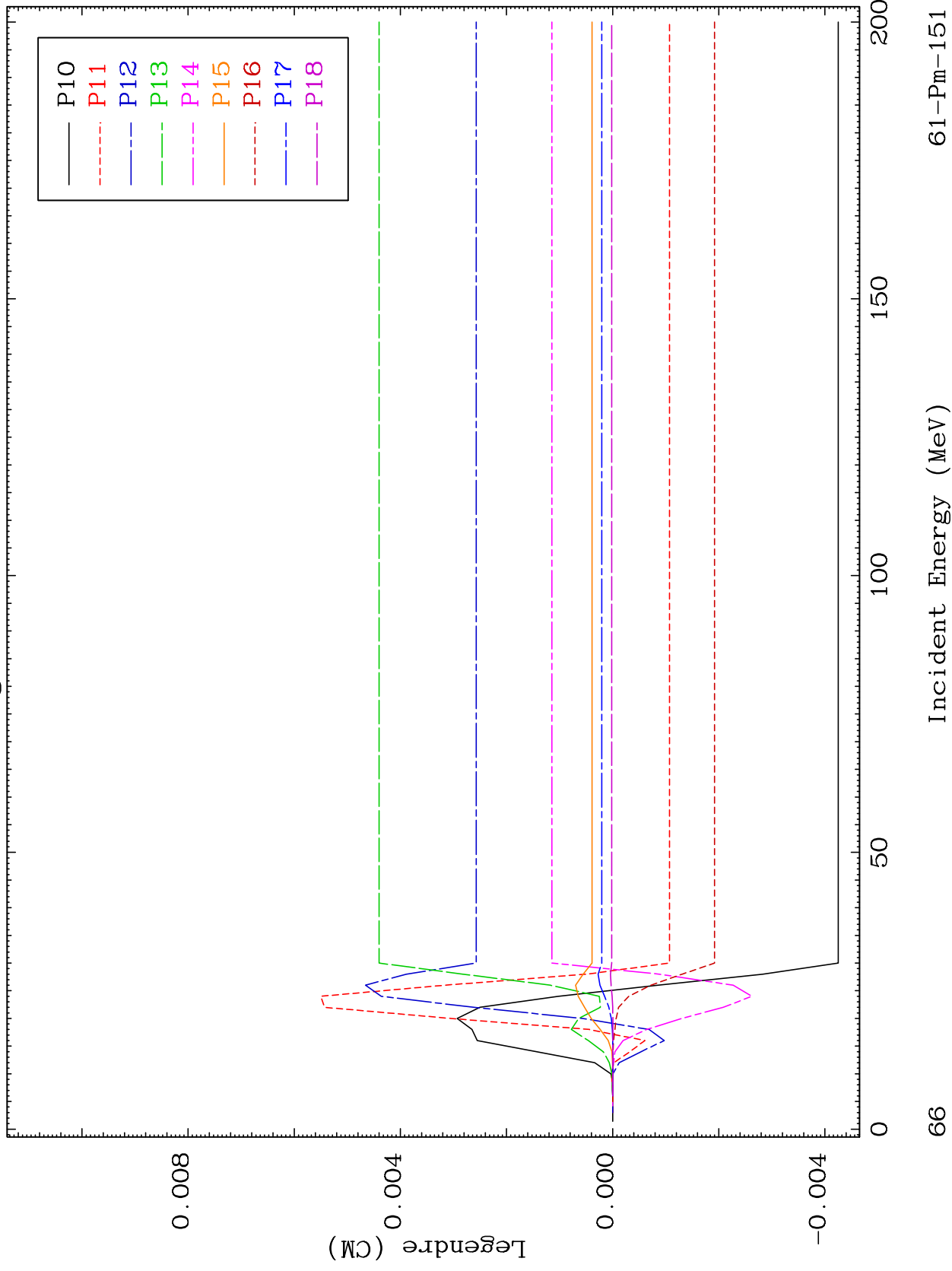
Incident Energy (MeV)

61-Pm-151

MAT 6161

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

61-Pm-151



66

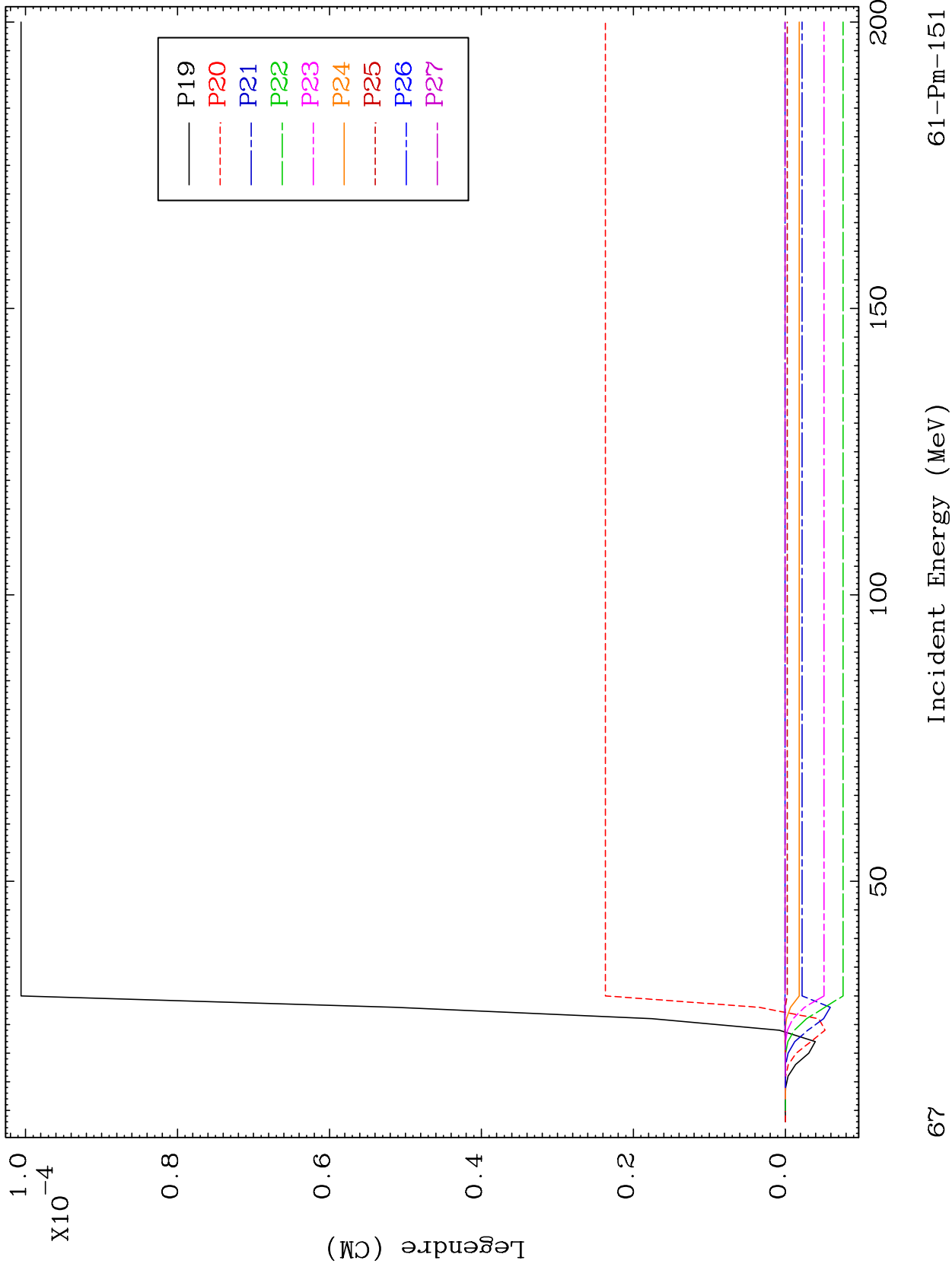
Incident Energy (MeV)

61-Pm-151

MAT 6161

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

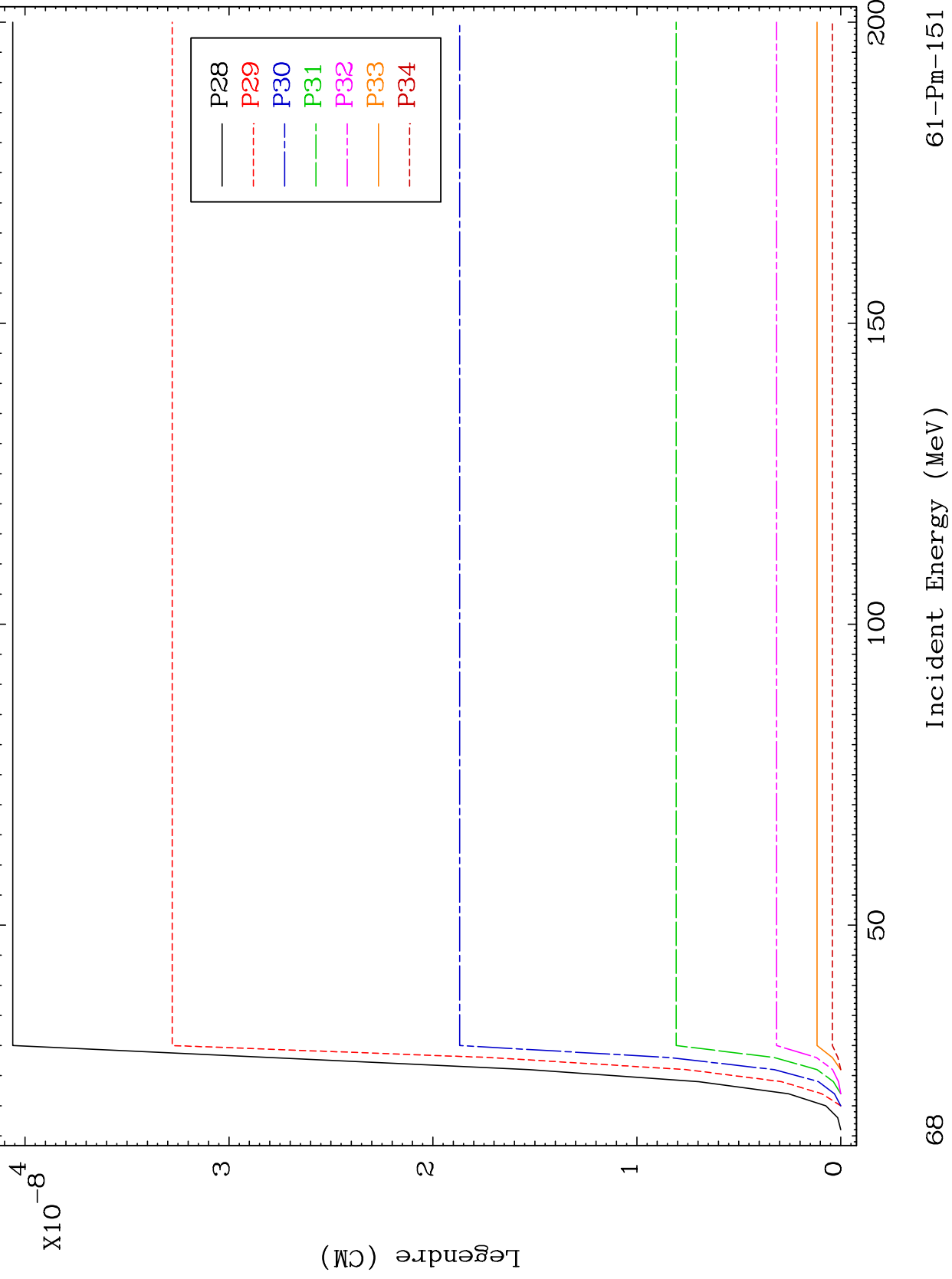
61-Pm-151



MAT 6161

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

61-Pm-151



68

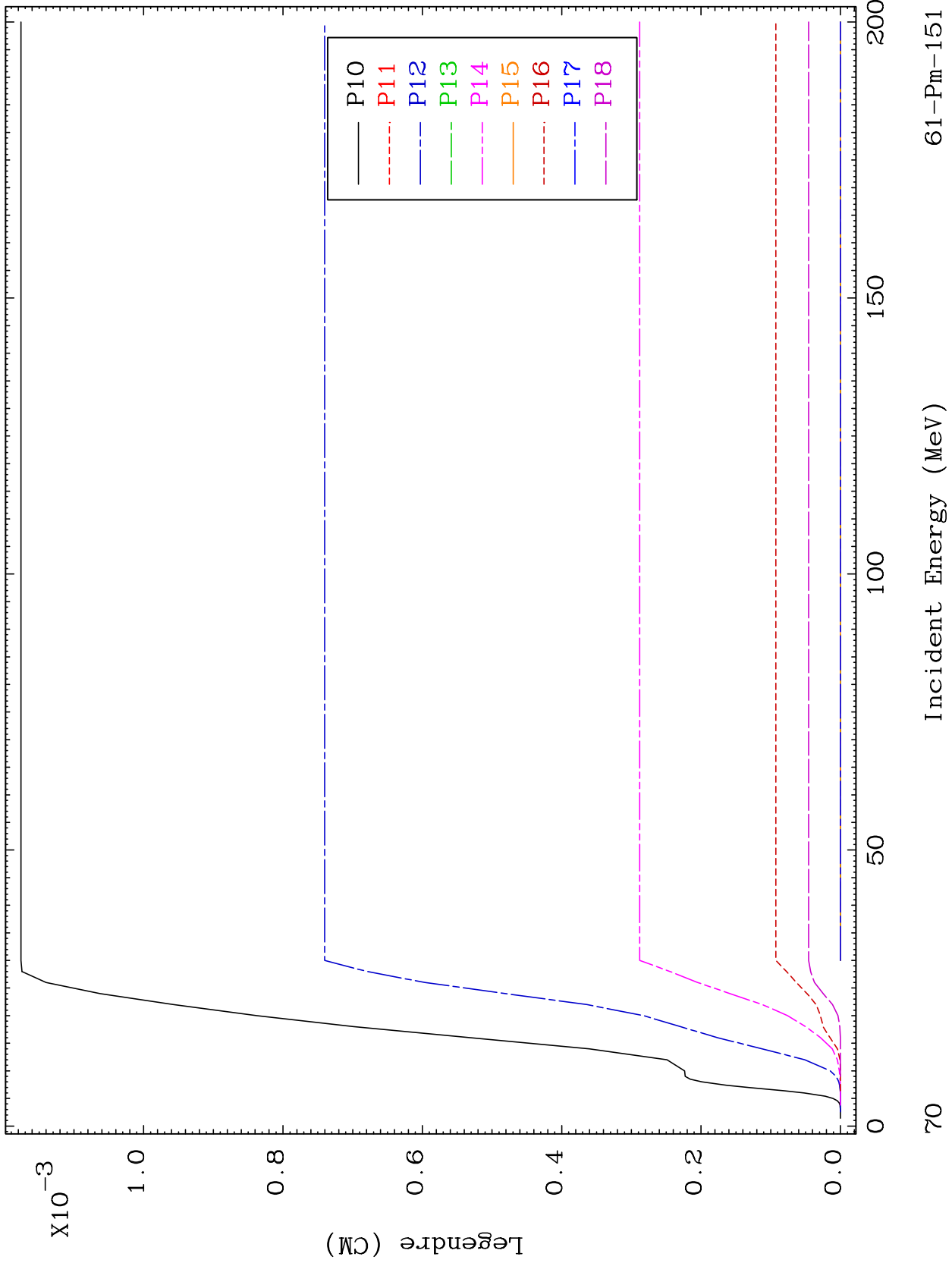
Incident Energy (MeV)

61-Pm-151

MAT 6161

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

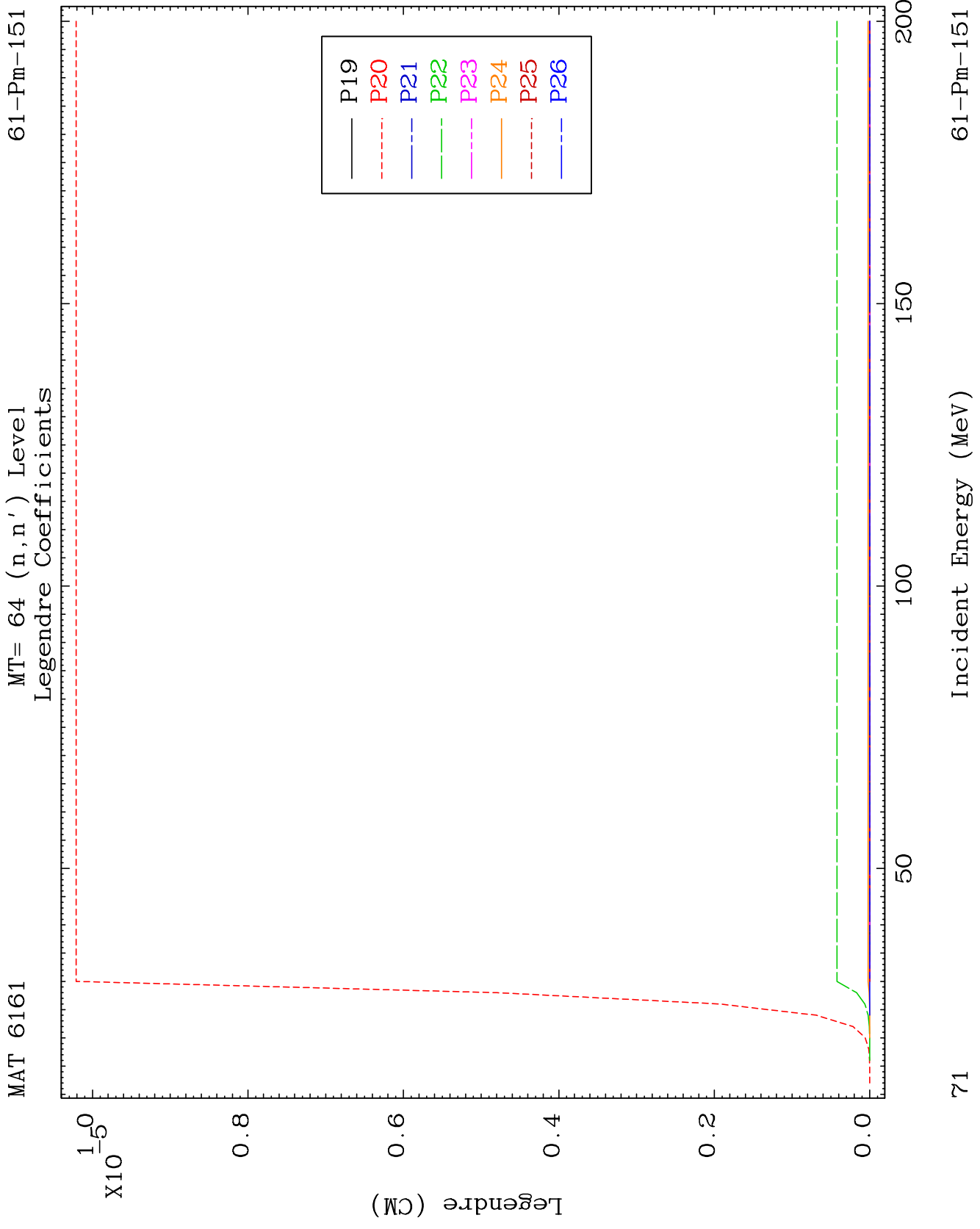
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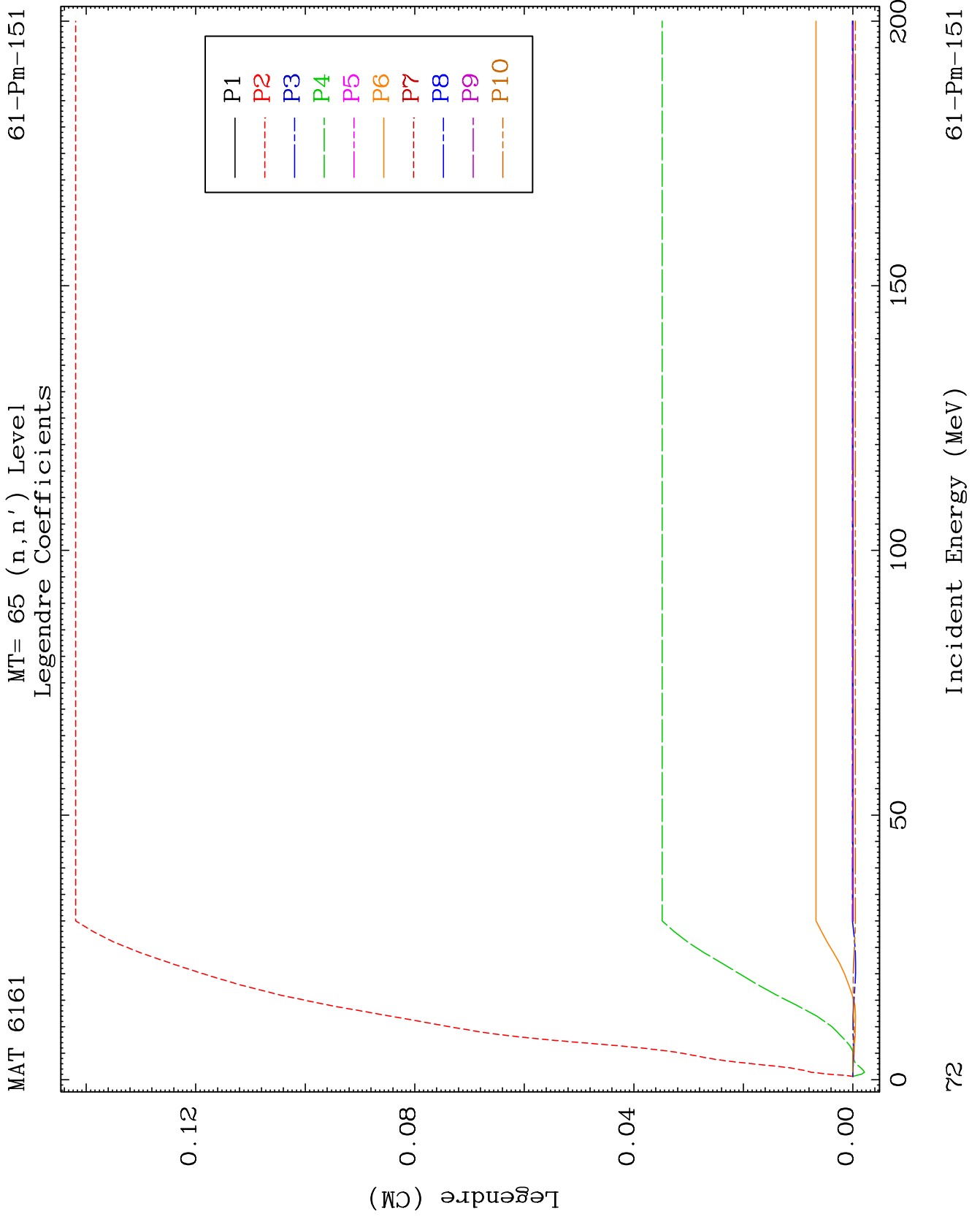


61-Pm-151

Incident Energy (MeV)

70

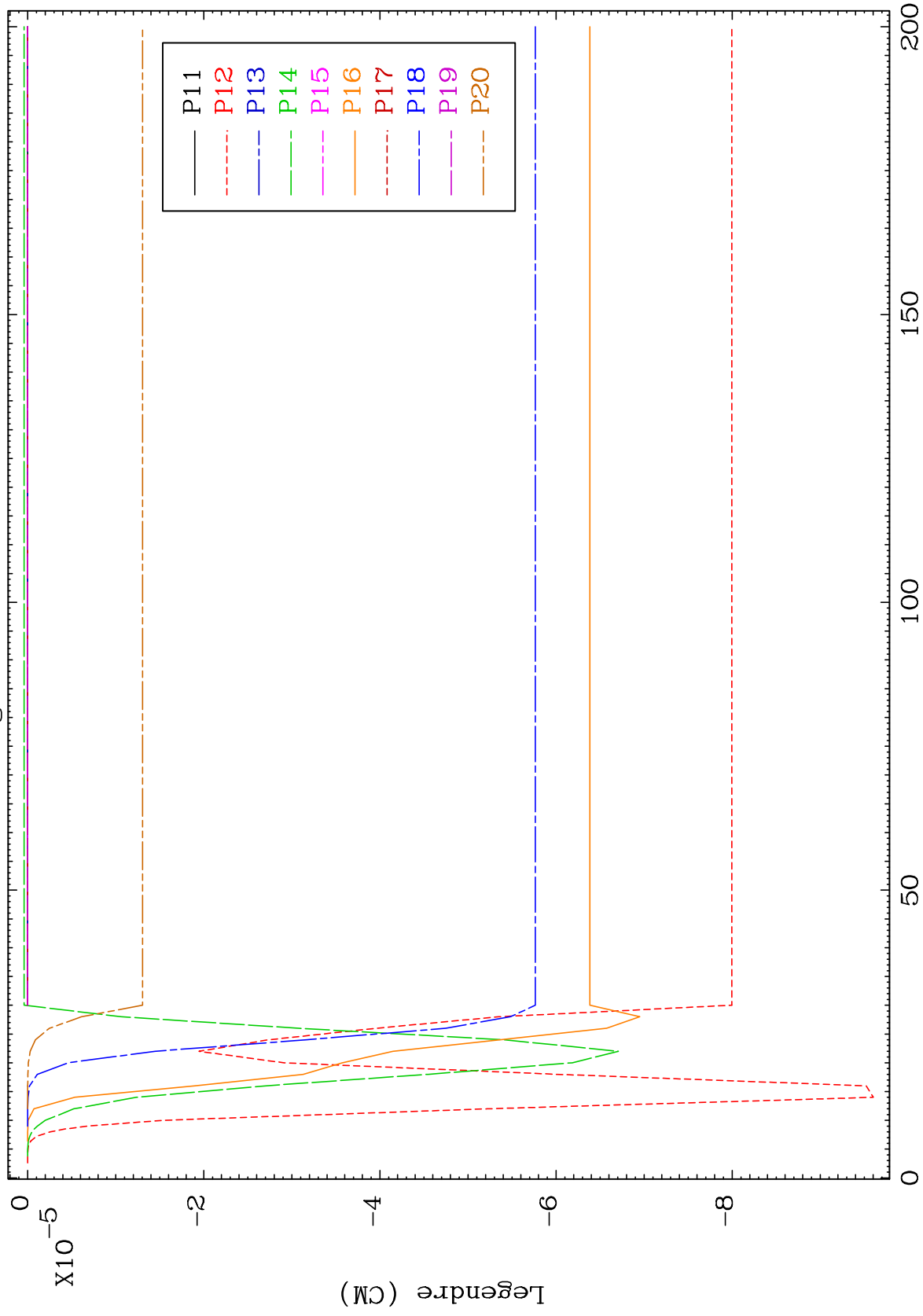




MAT 6161

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

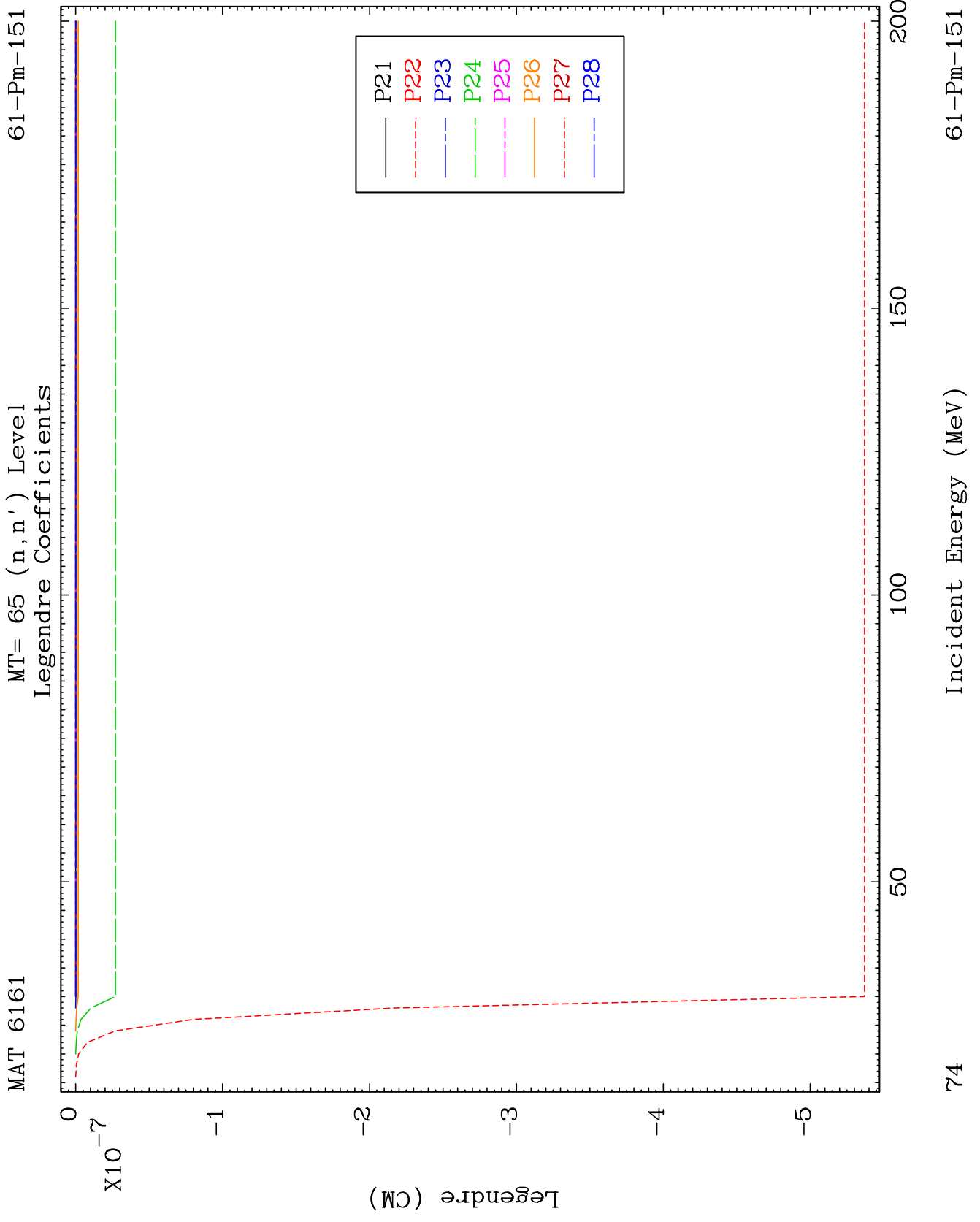
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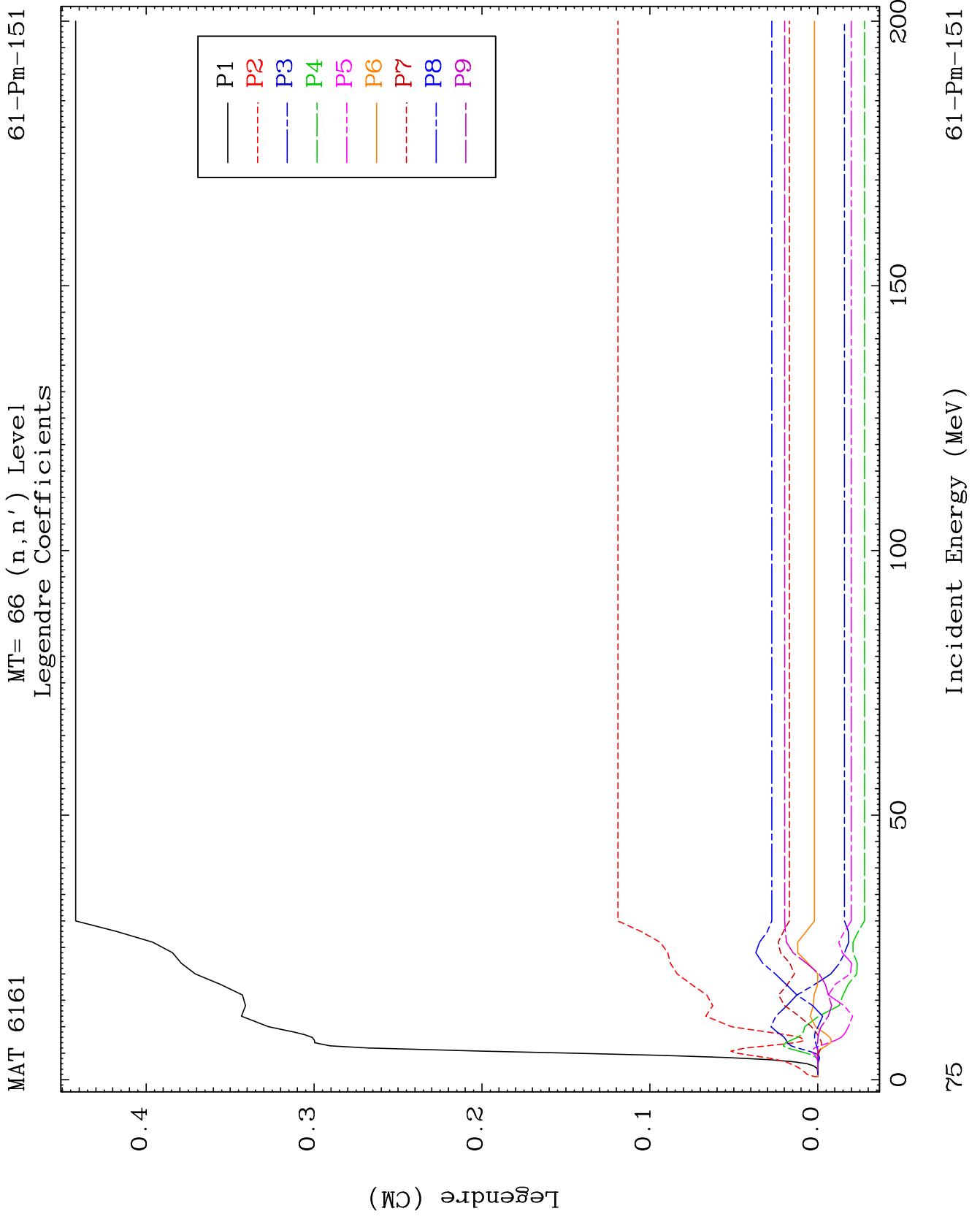


73

Incident Energy (MeV)

61-Pm-151

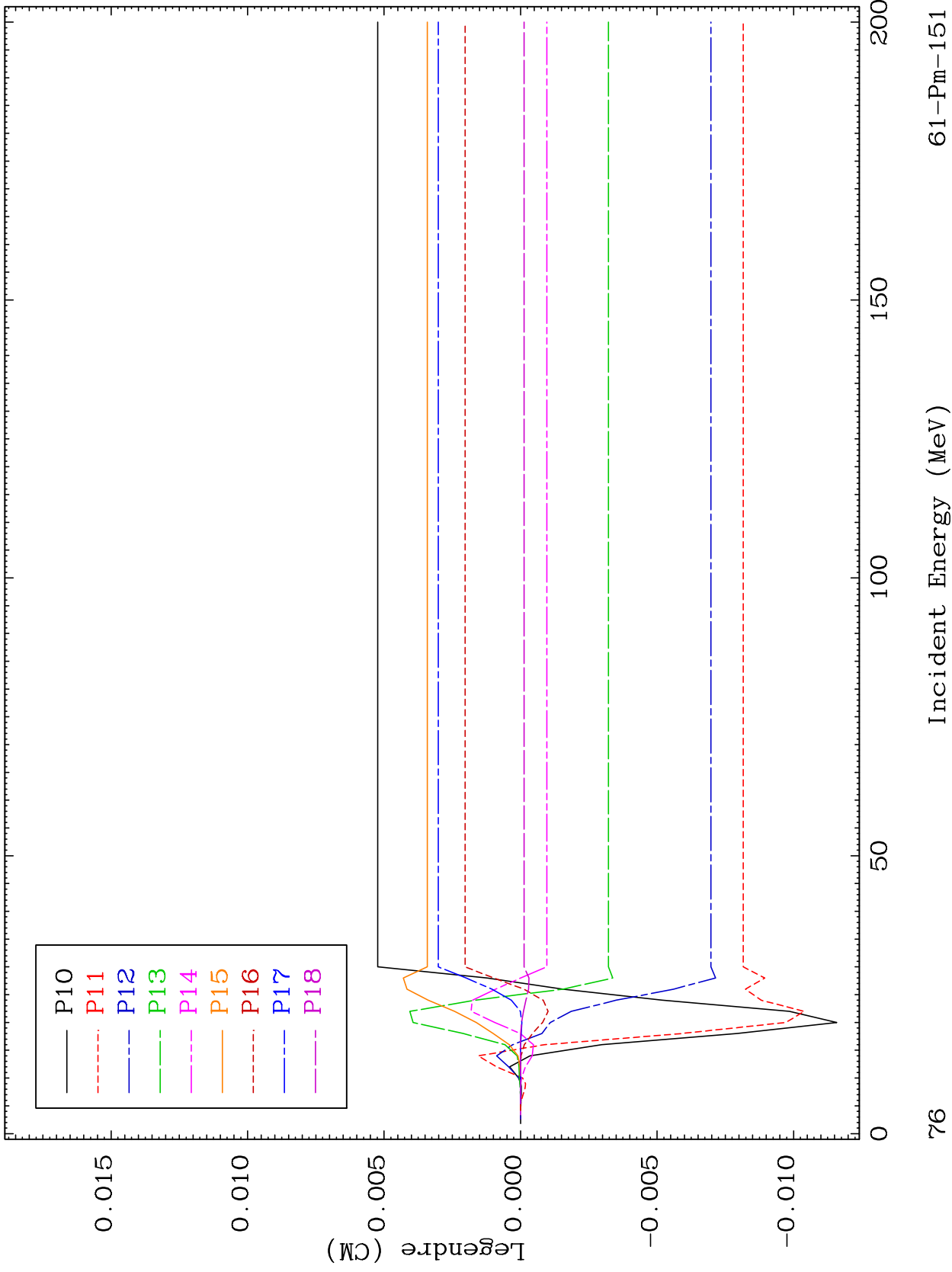




MAT 6161

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

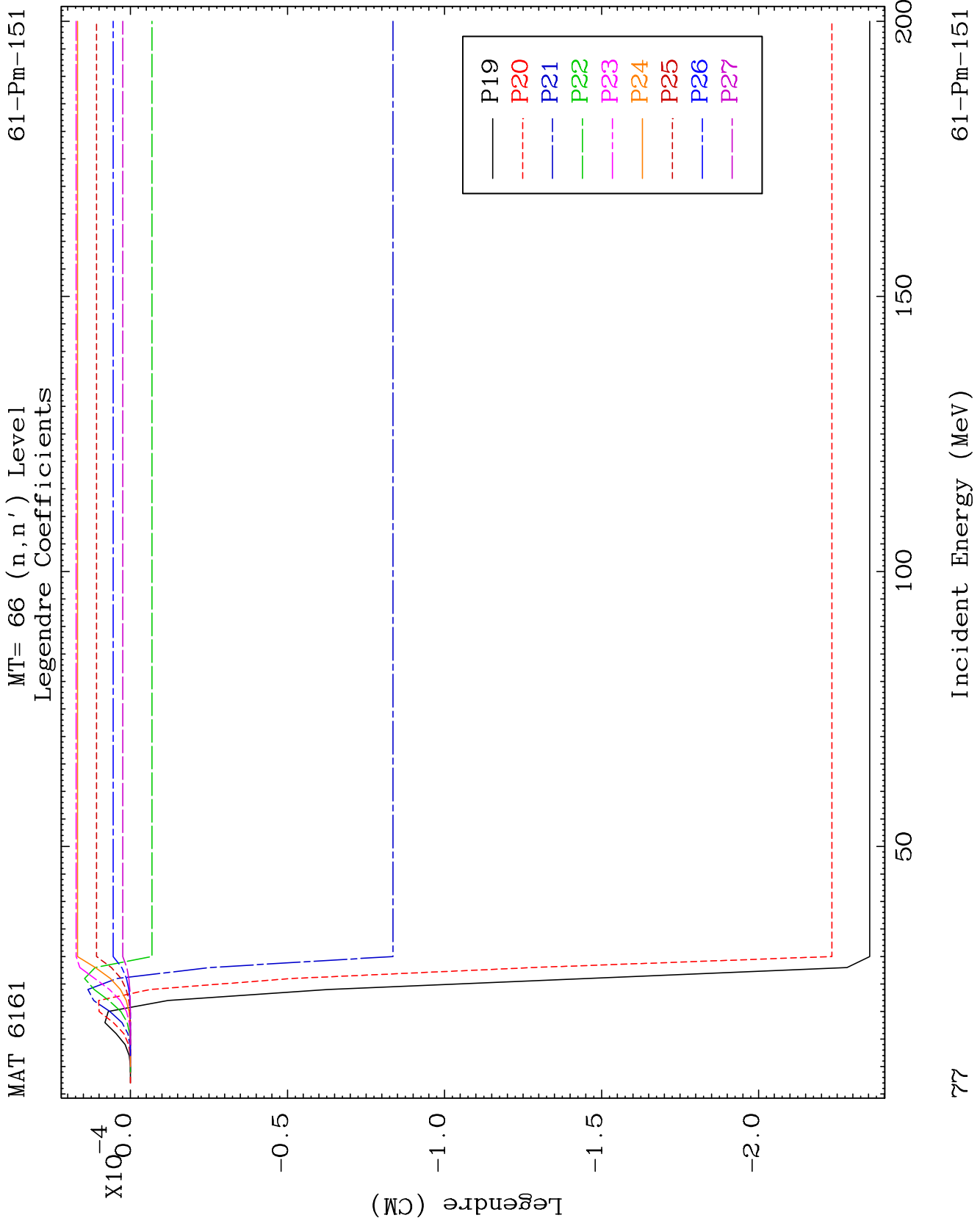
61-Pm-151



76

Incident Energy (MeV)

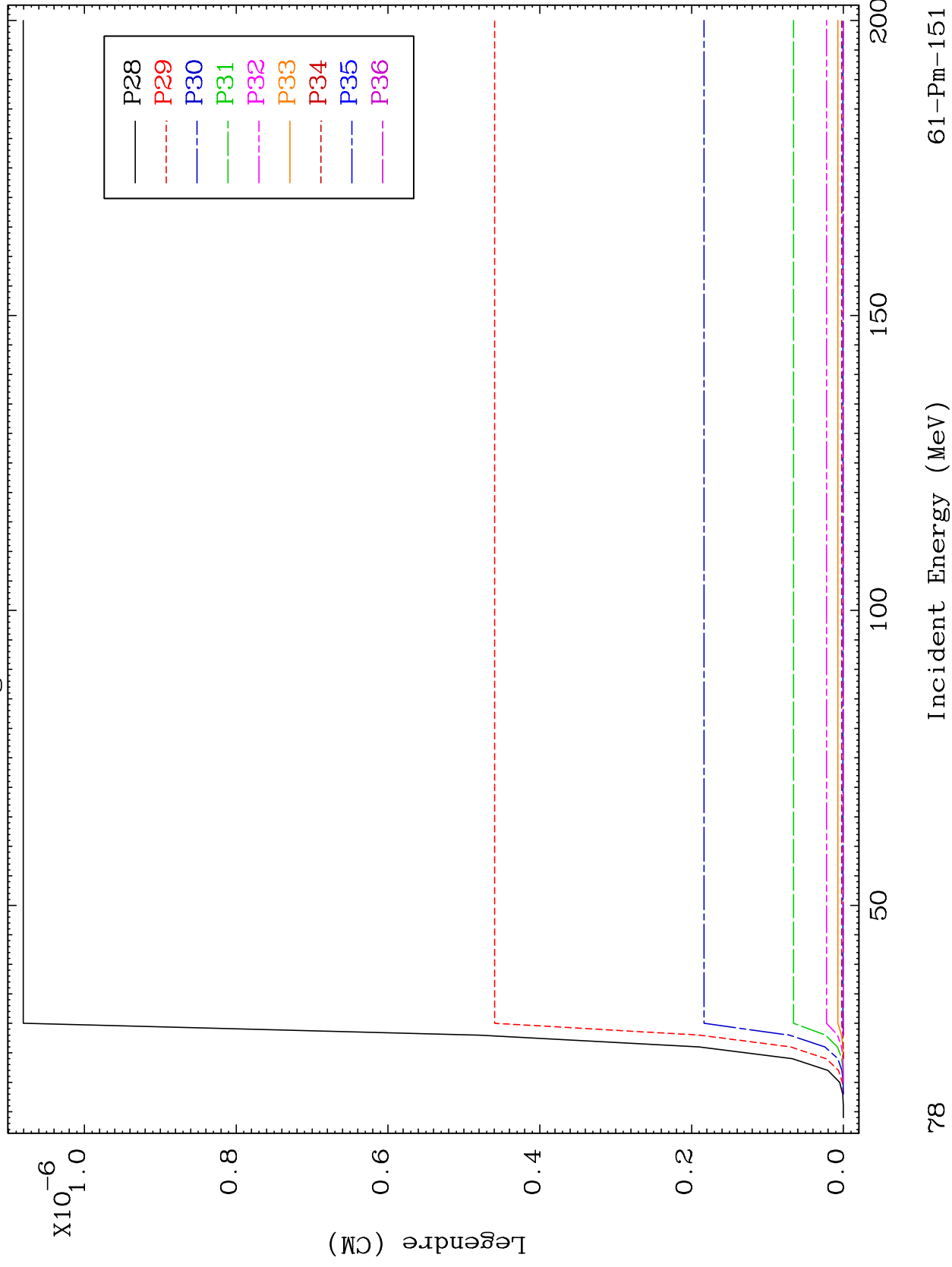
61-Pm-151



MAT 6161

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

61-Pm-151



78

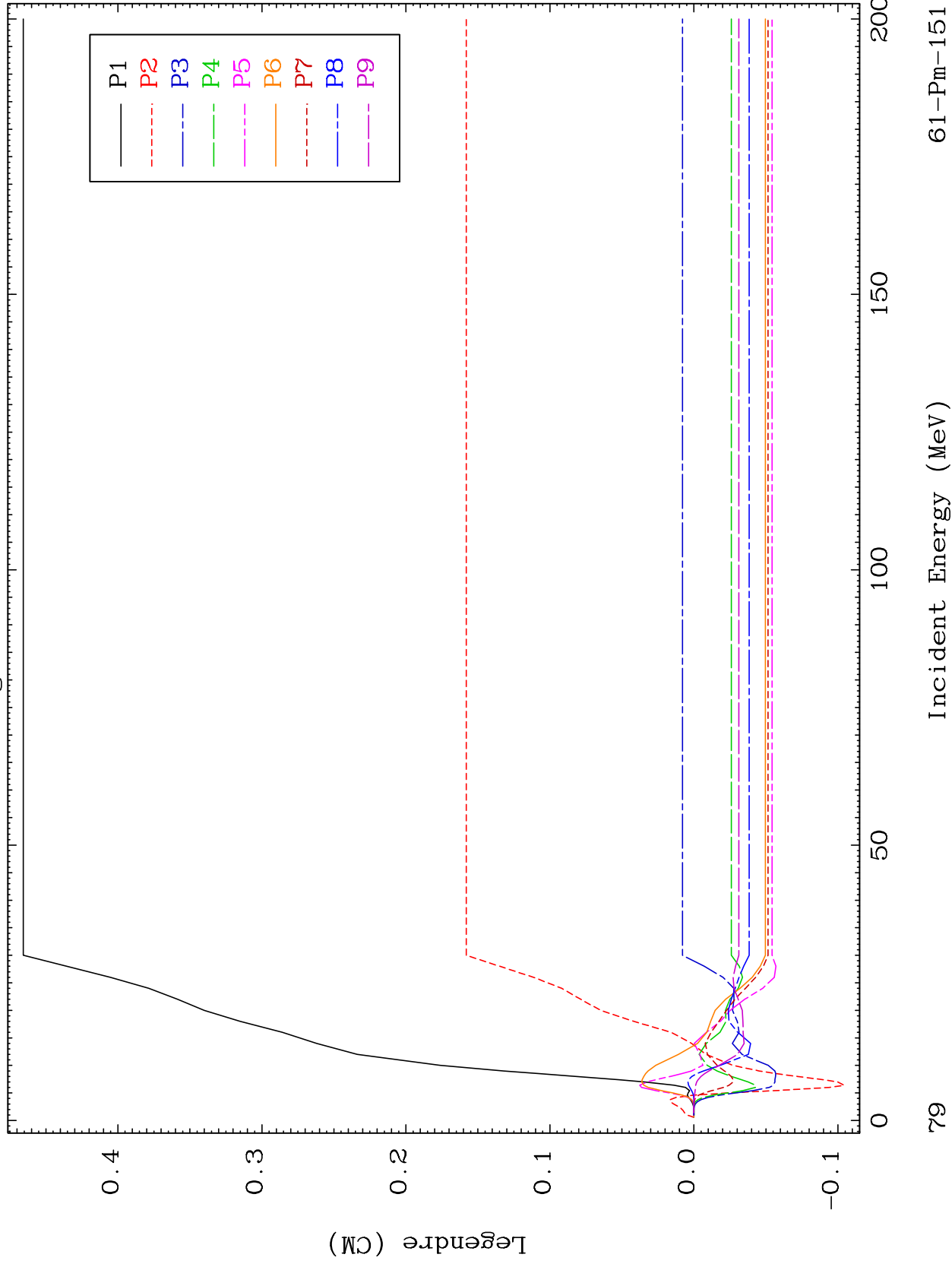
Incident Energy (MeV)

61-Pm-151

MAT 6161

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

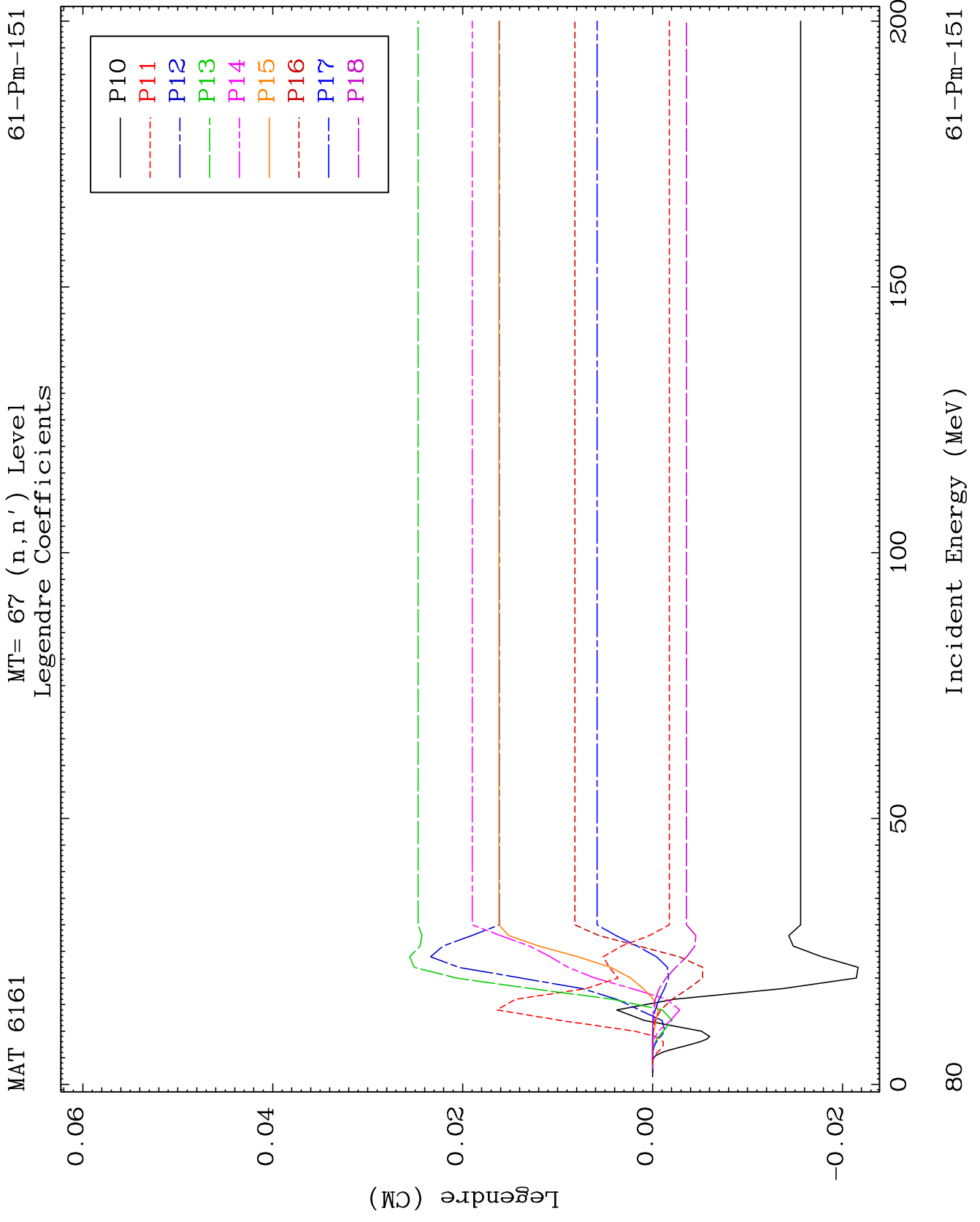
61-Pm-151



61-Pm-151

Incident Energy (MeV)

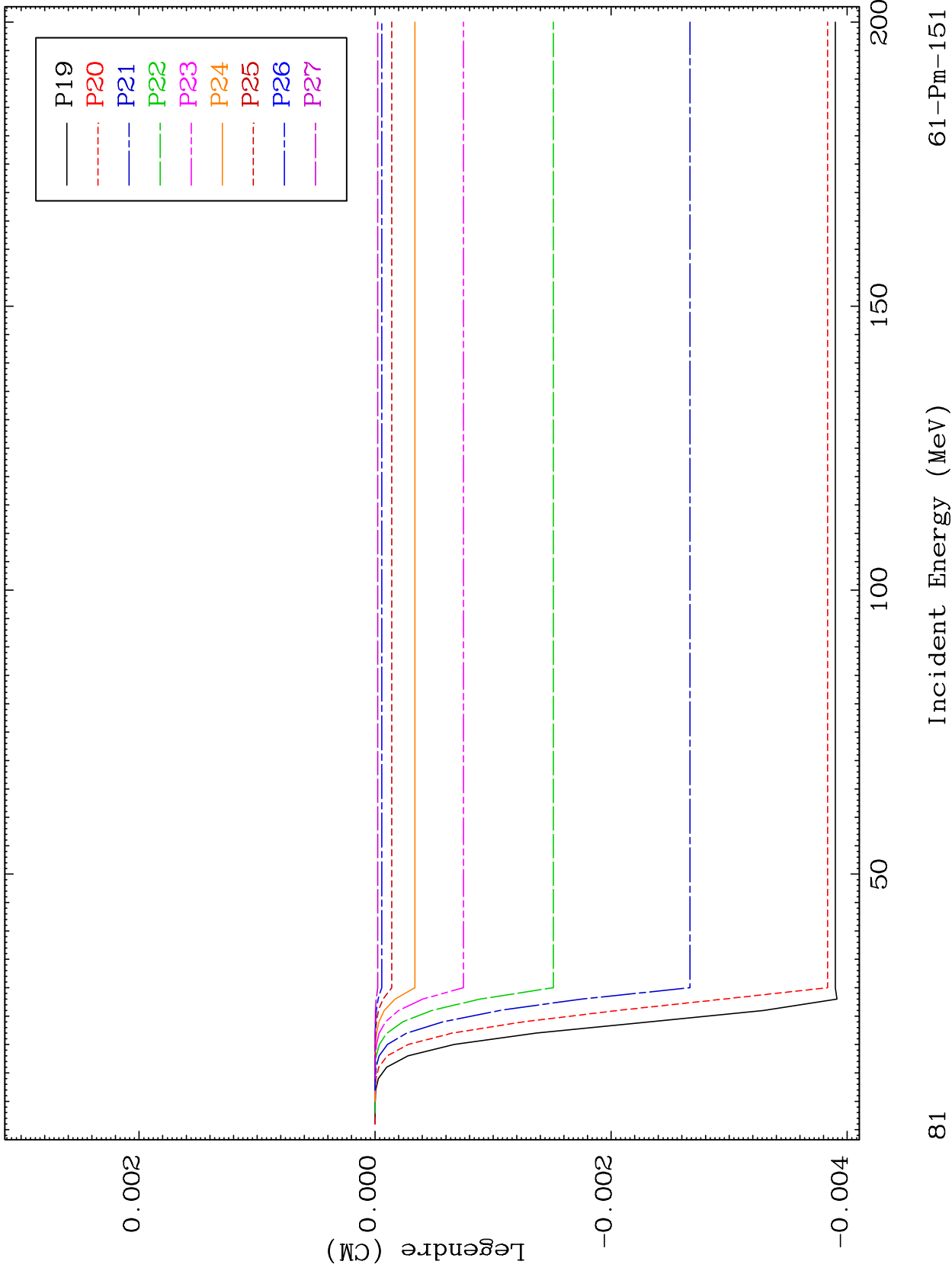
79



MAT 6161

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

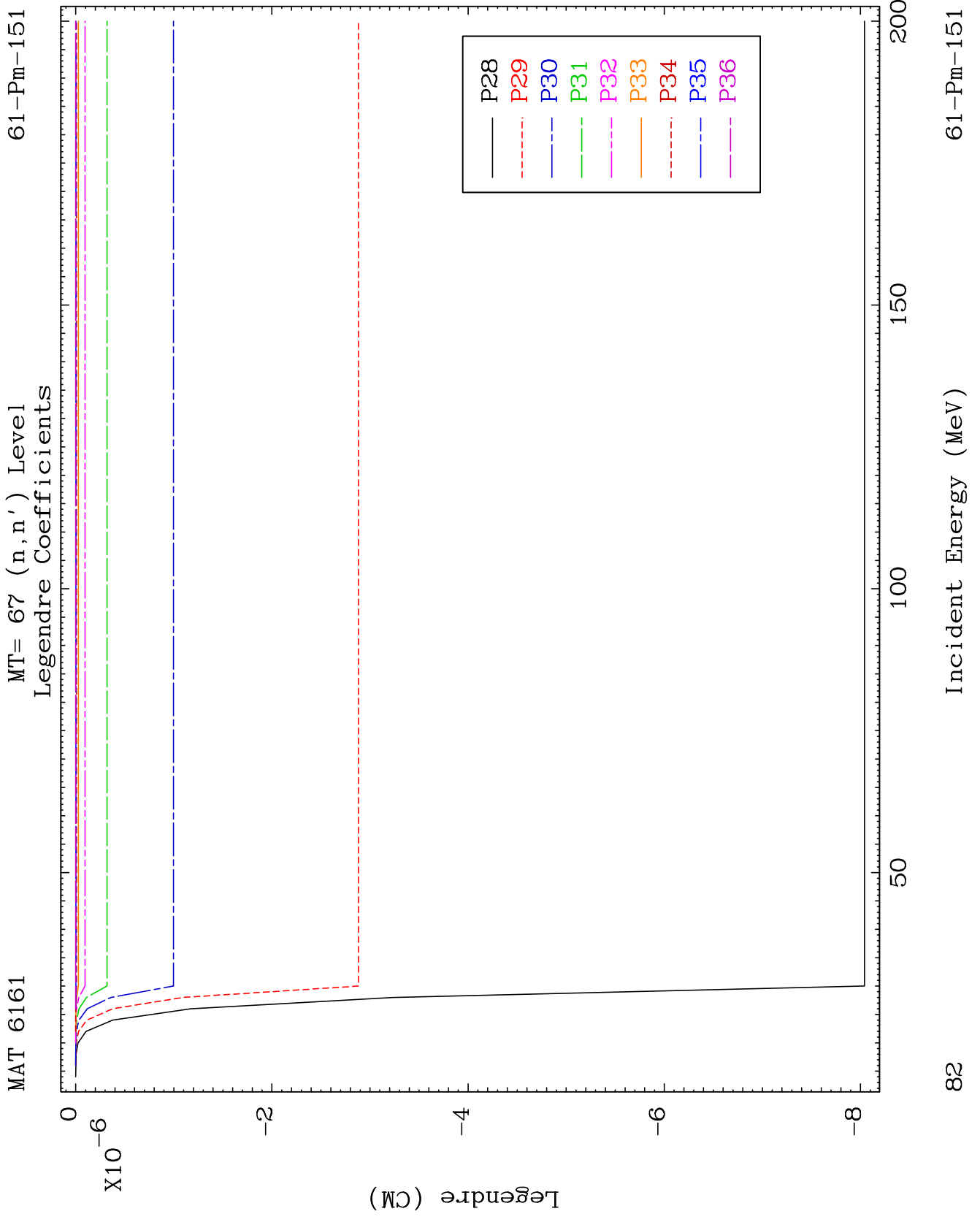
61-Pm-151



81

Incident Energy (MeV)

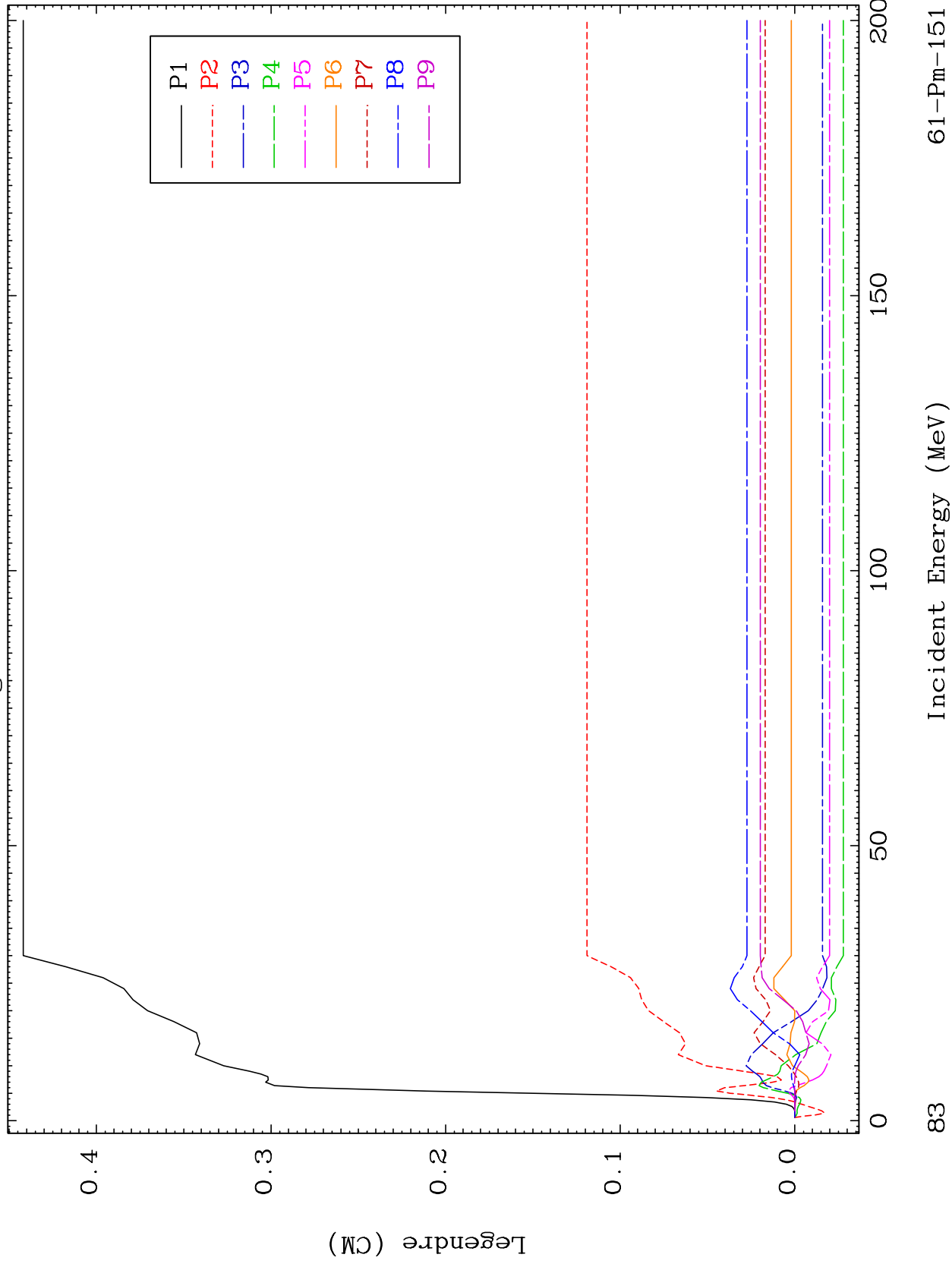
61-Pm-151



MAT 6161

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

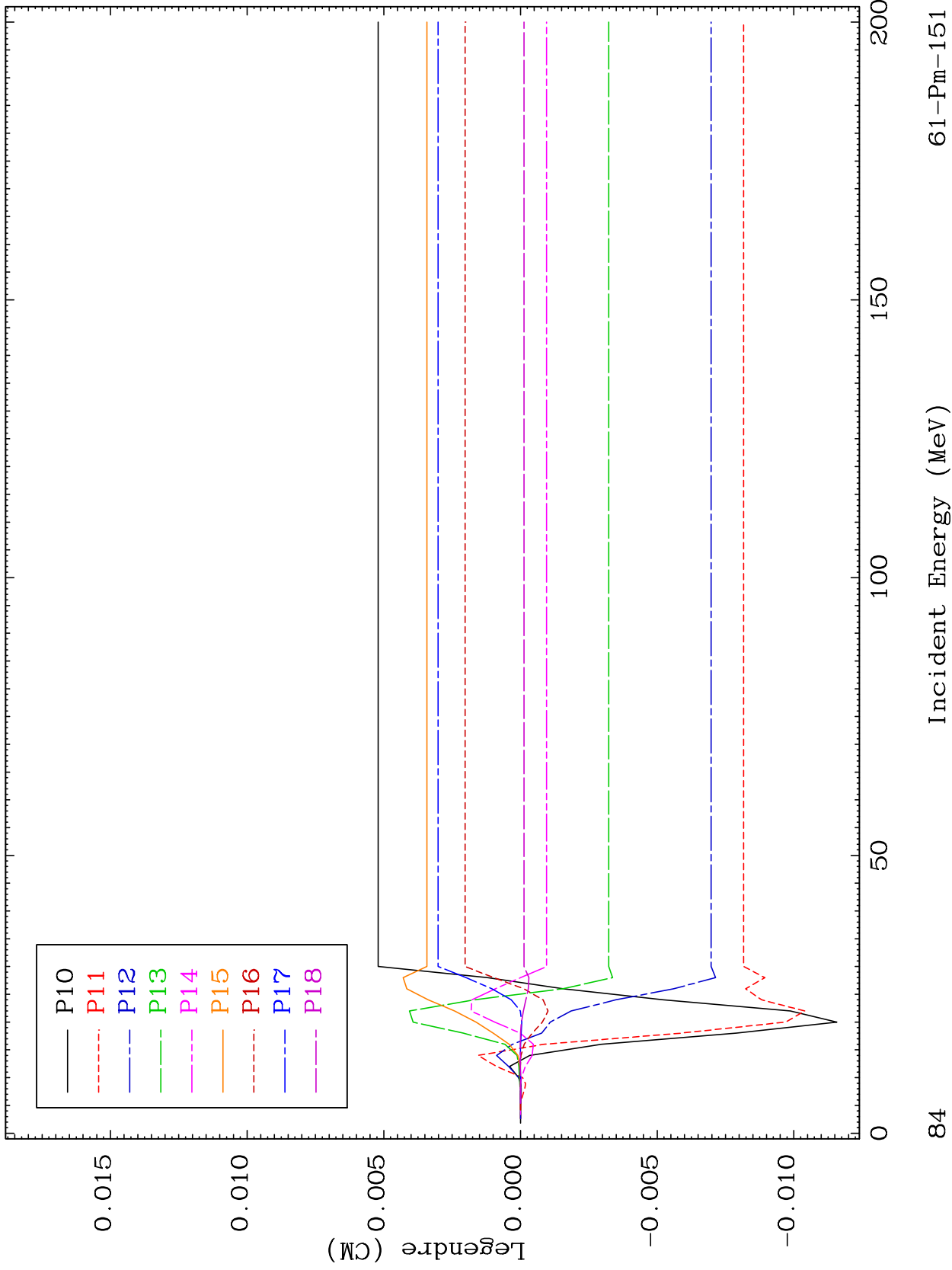
61-Pm-151



MAT 6161

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

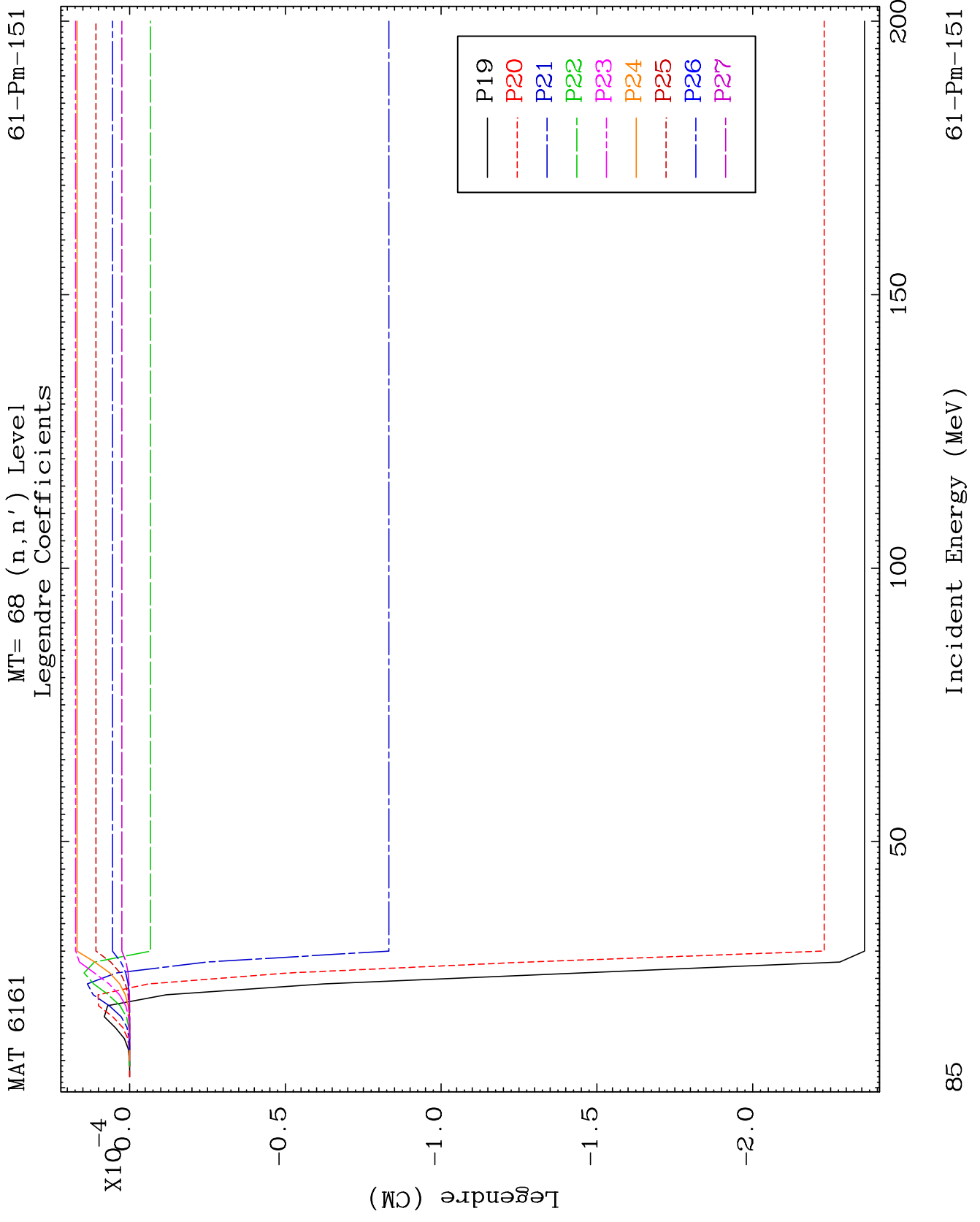
61-Pm-151



84

Incident Energy (MeV)

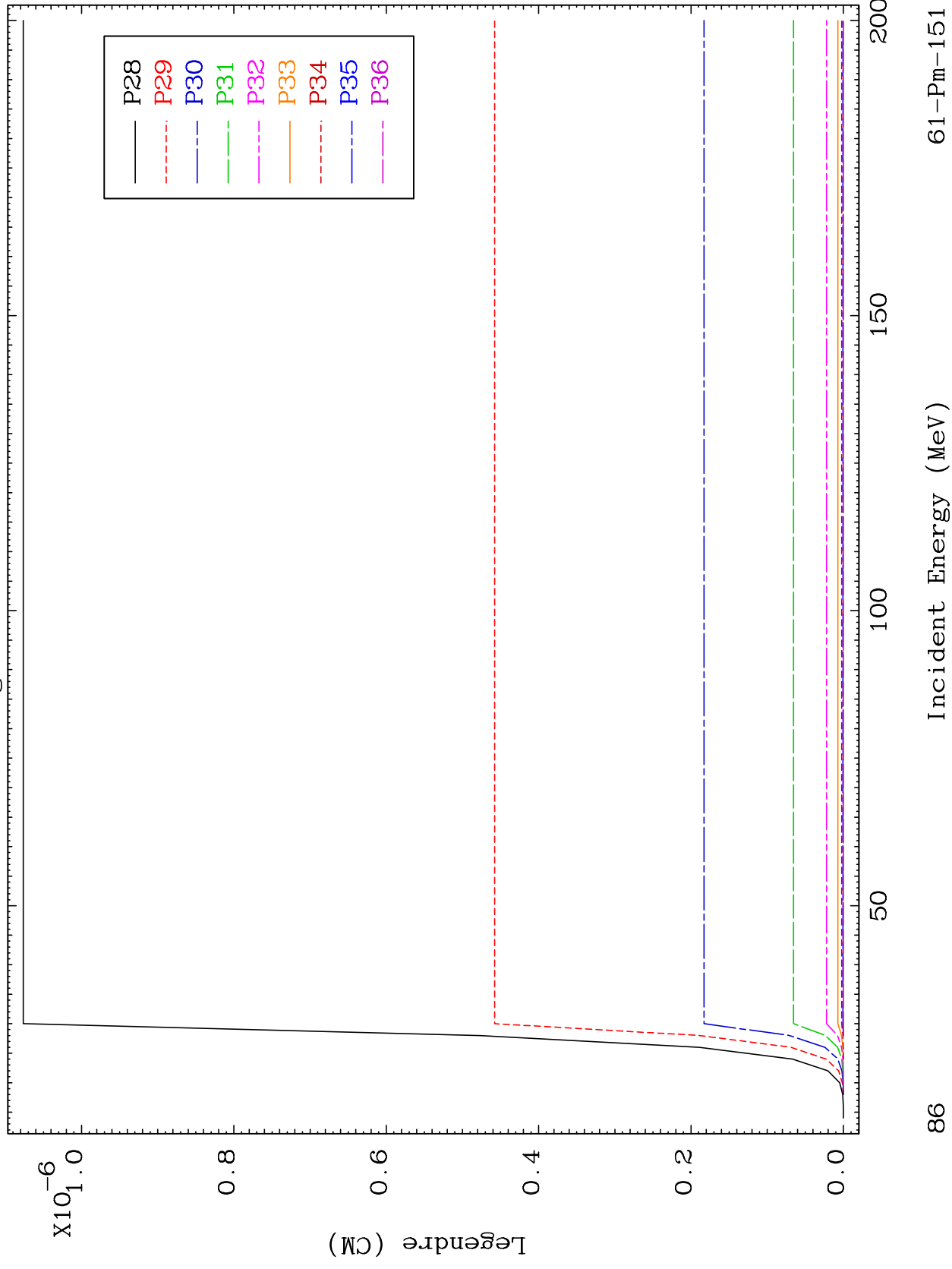
61-Pm-151



MAT 6161

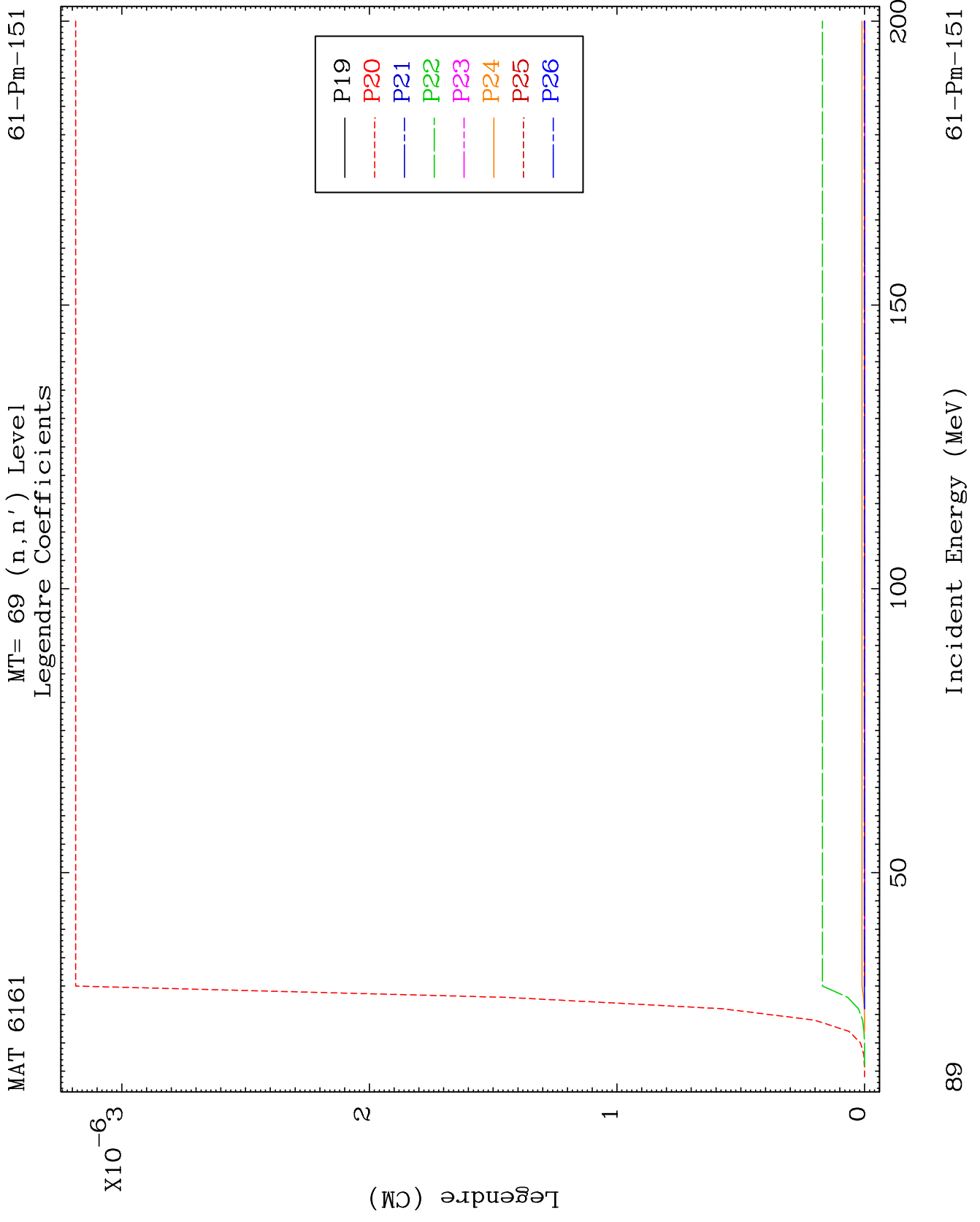
MT= 68 (n,n') Level
Legendre Coefficients

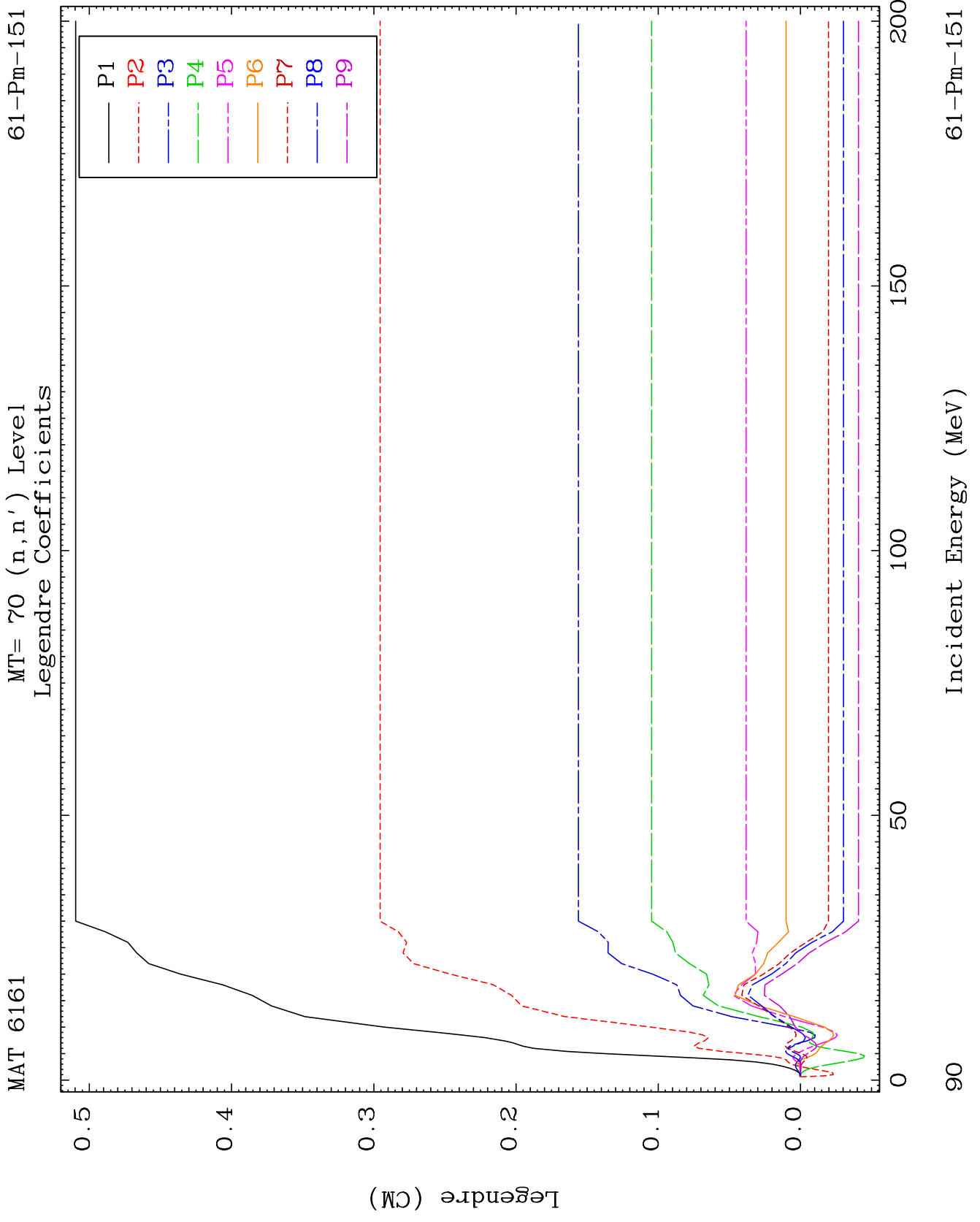
61-Pm-151

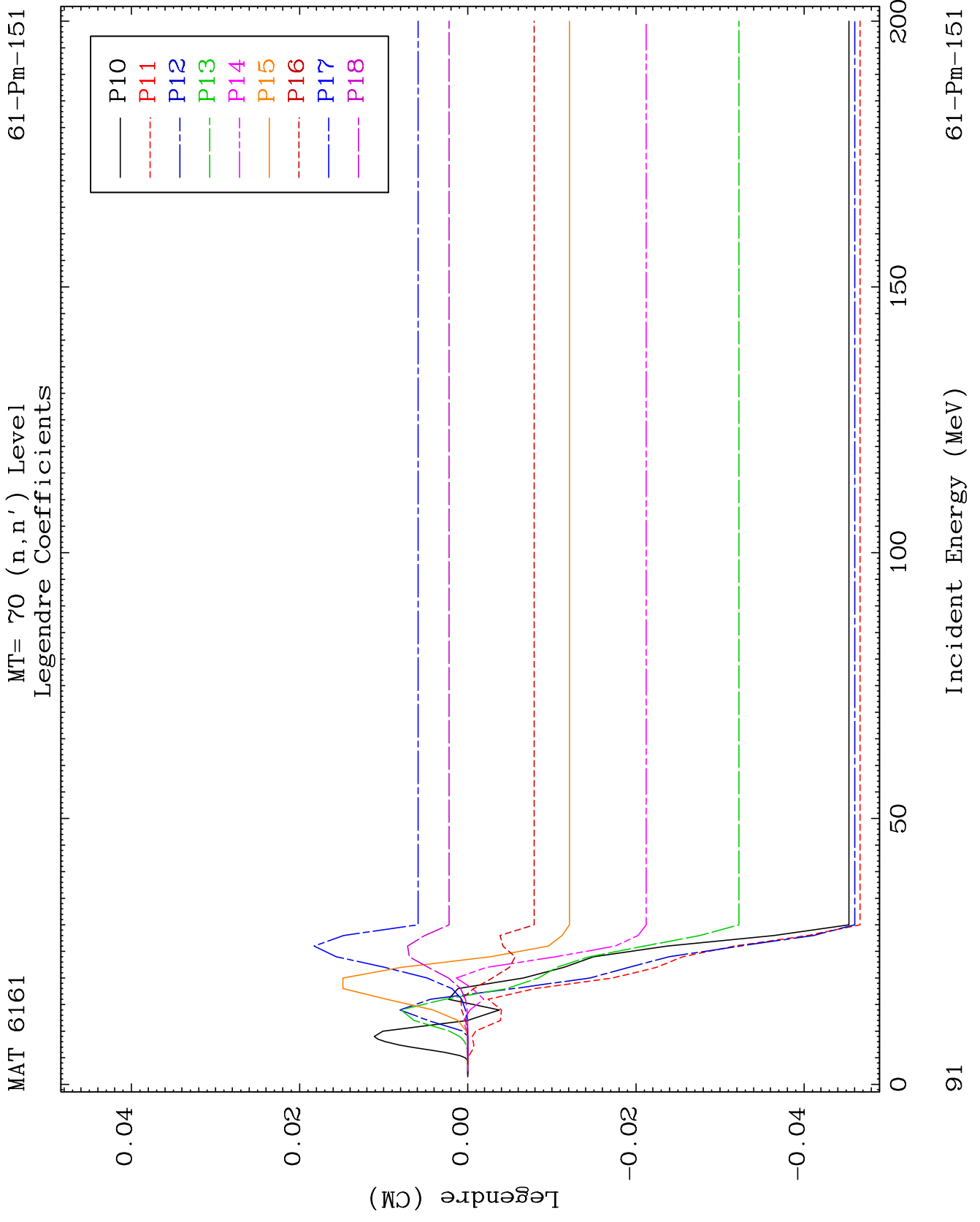


86

61-Pm-151



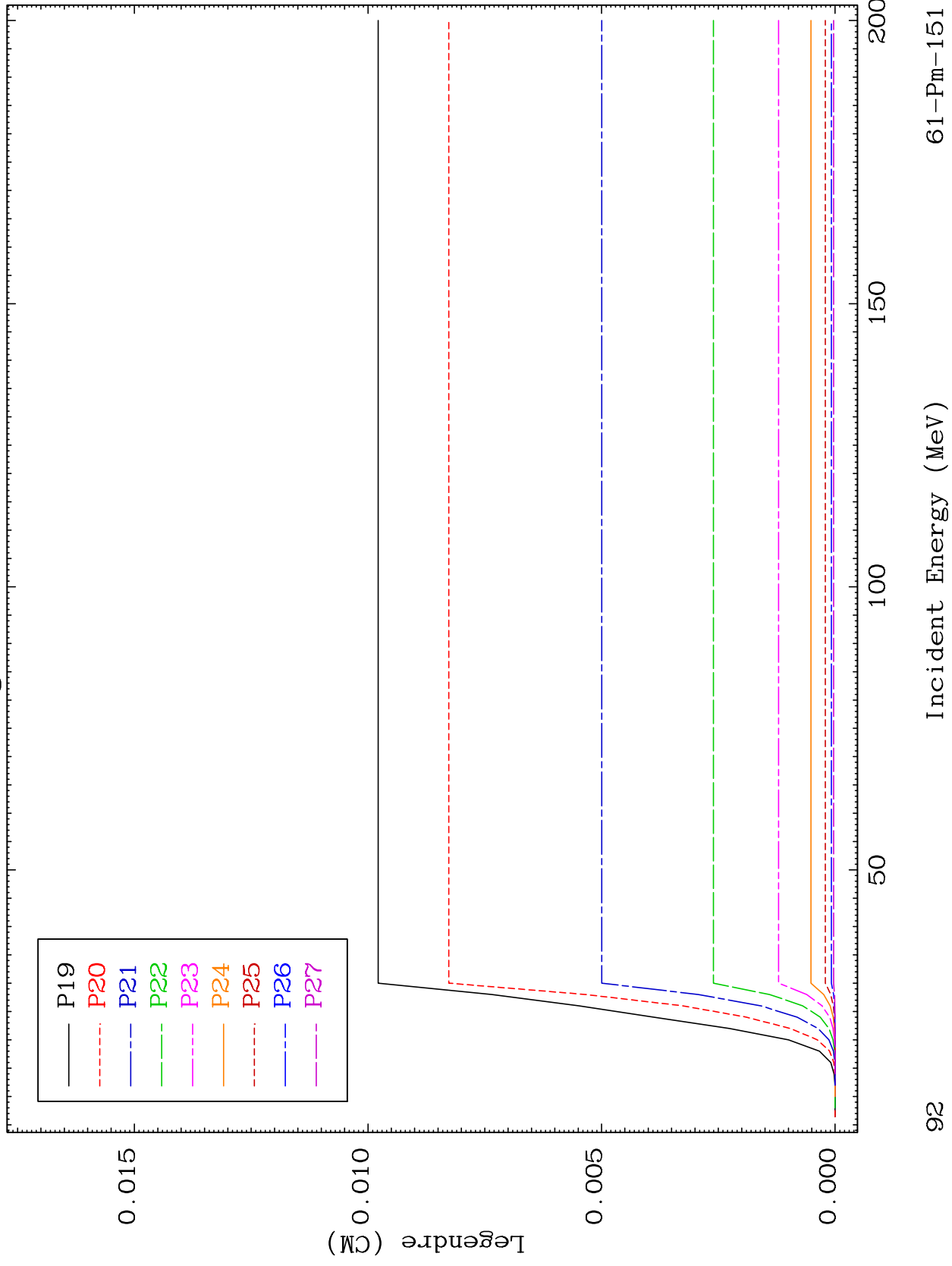




MAT 6161

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

61-Pm-151



92

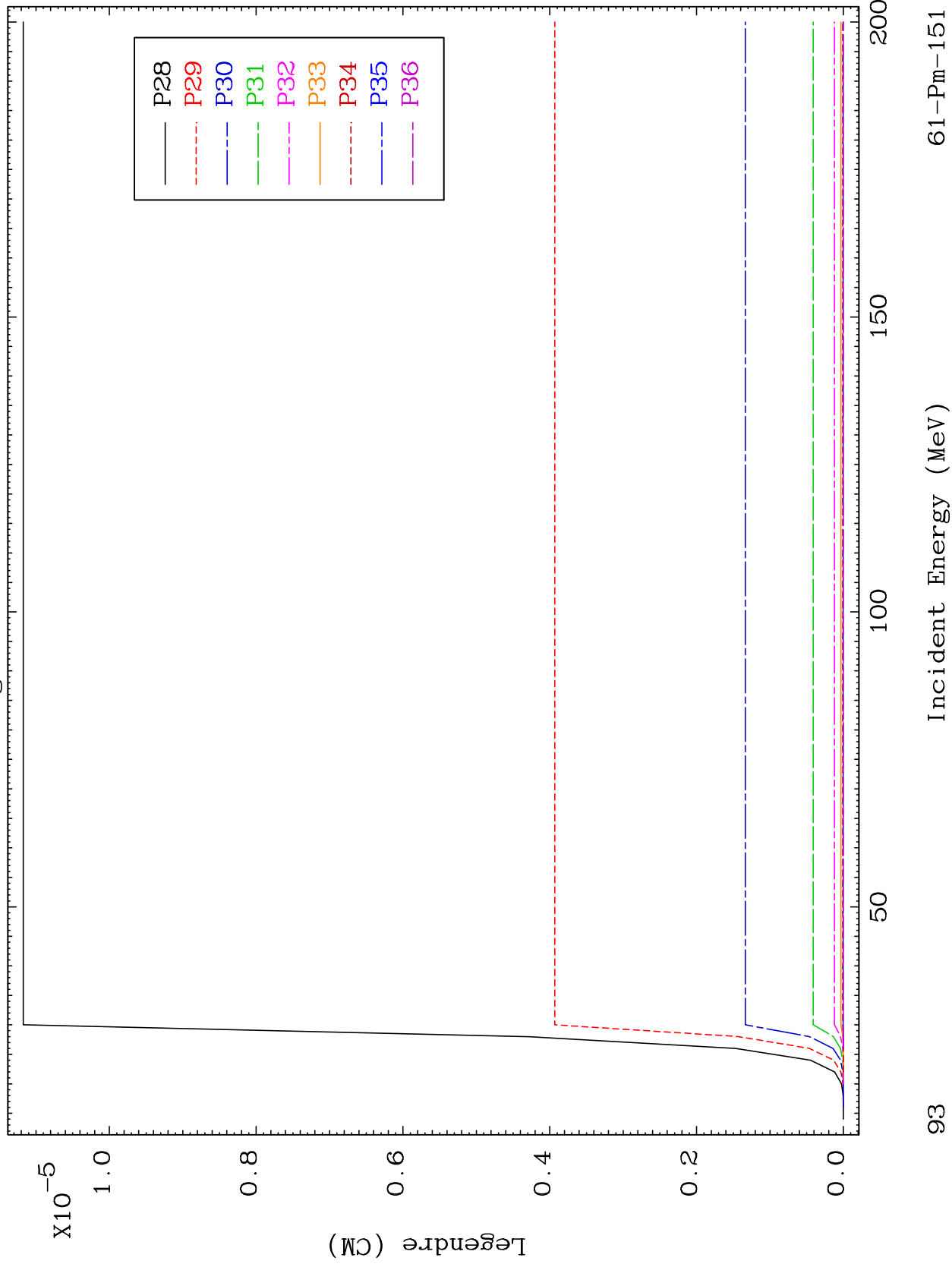
Incident Energy (MeV)

61-Pm-151

MAT 6161

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

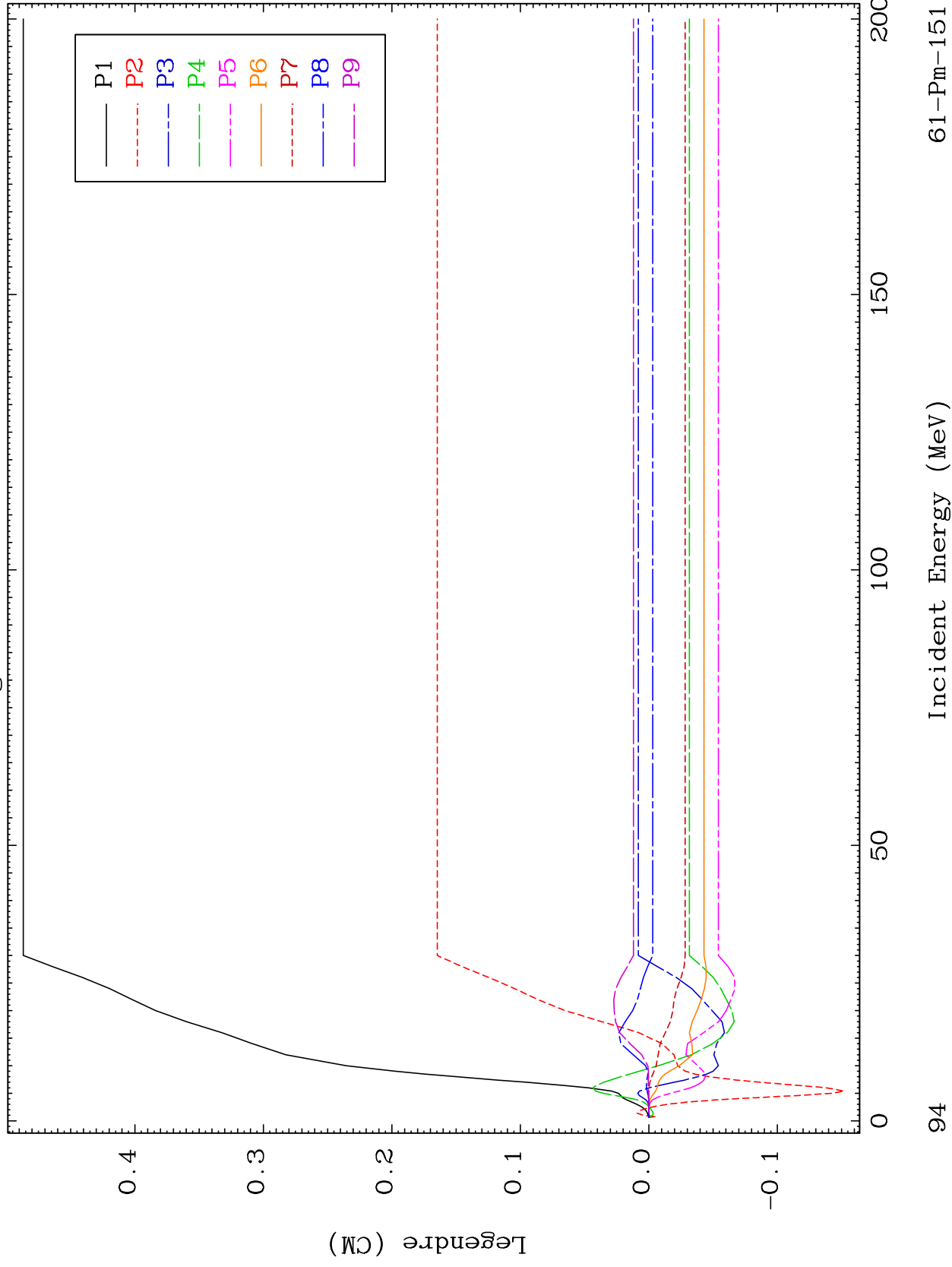
61-Pm-151



MAT 6161

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

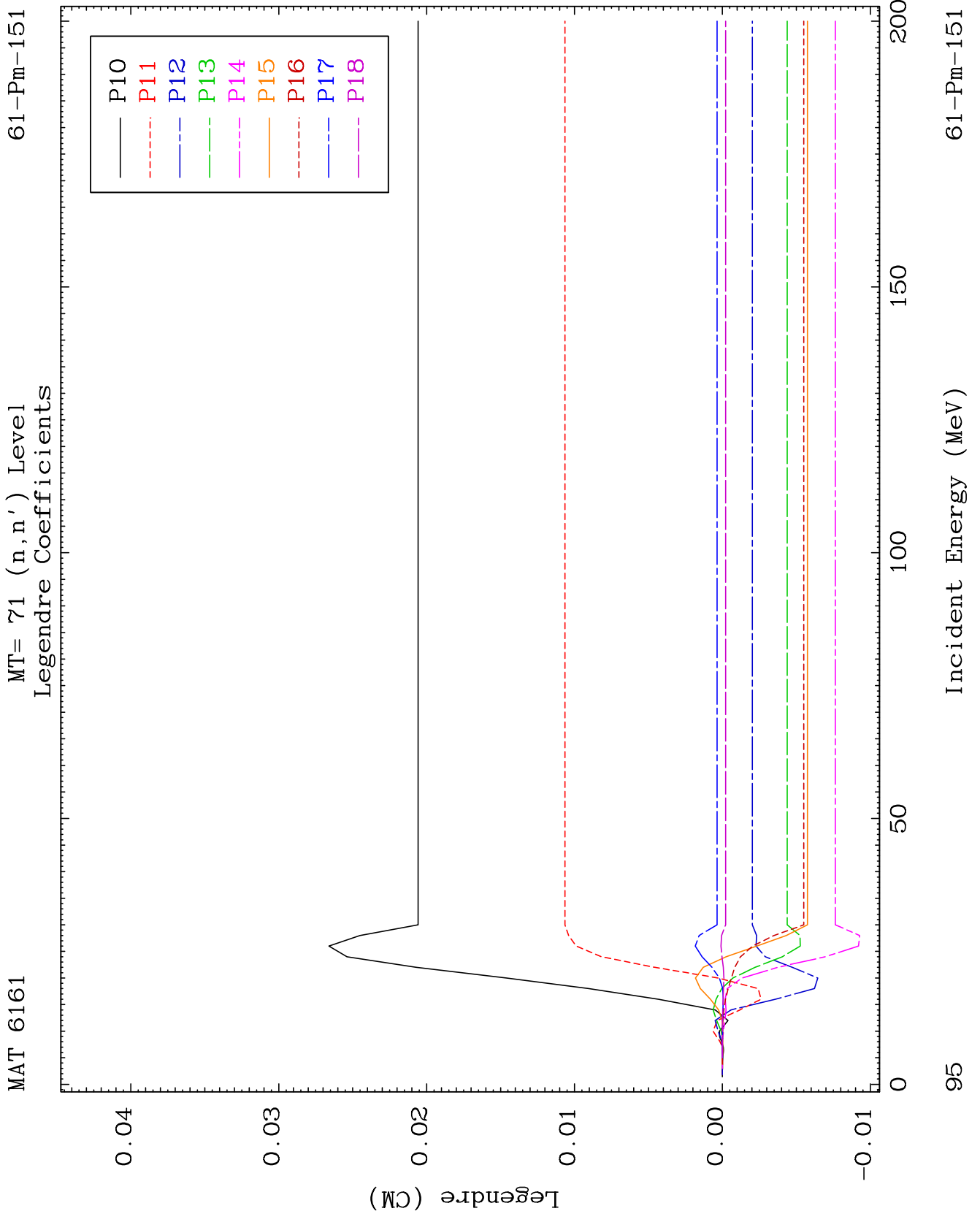
61-Pm-151

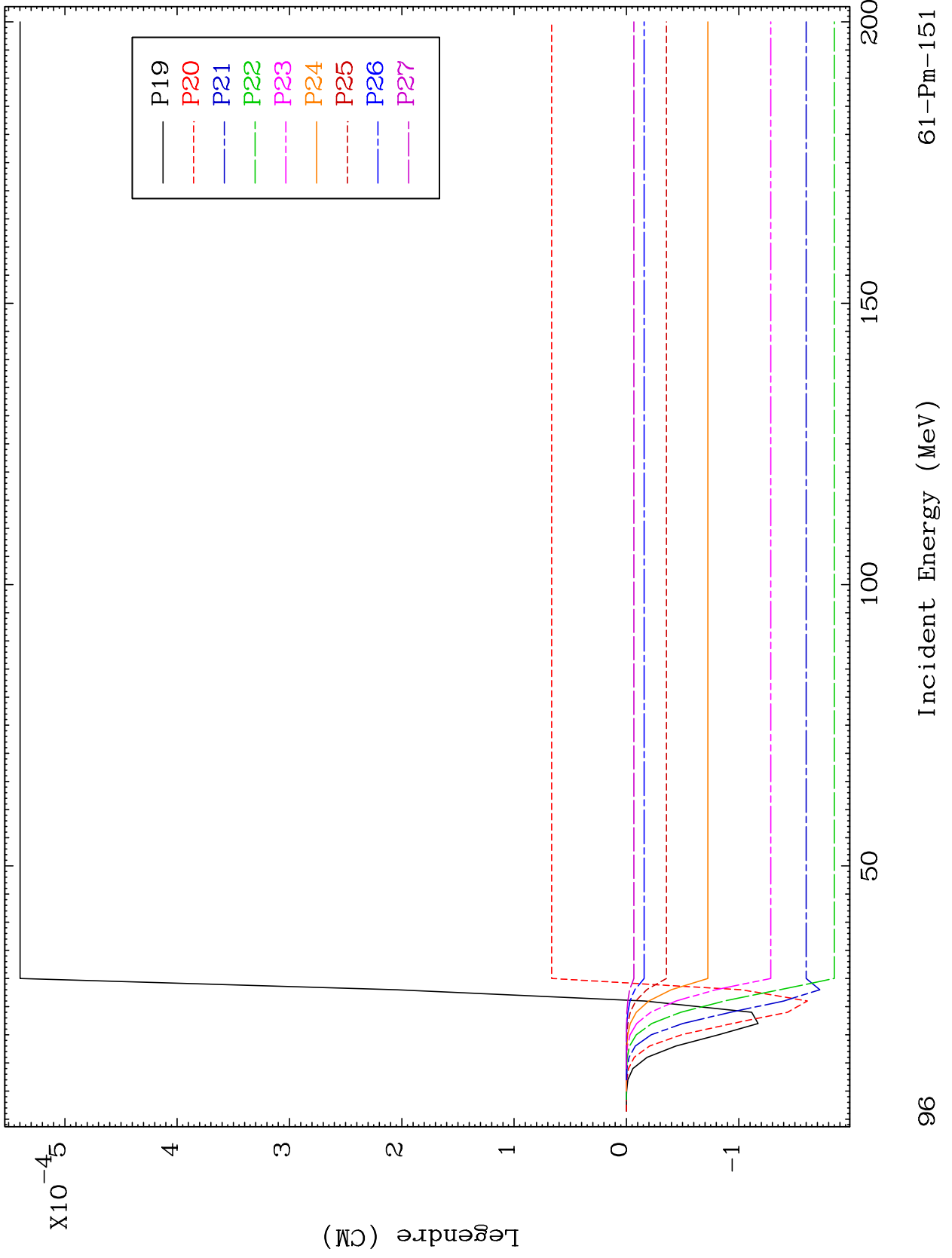


61-Pm-151

Incident Energy (MeV)

94

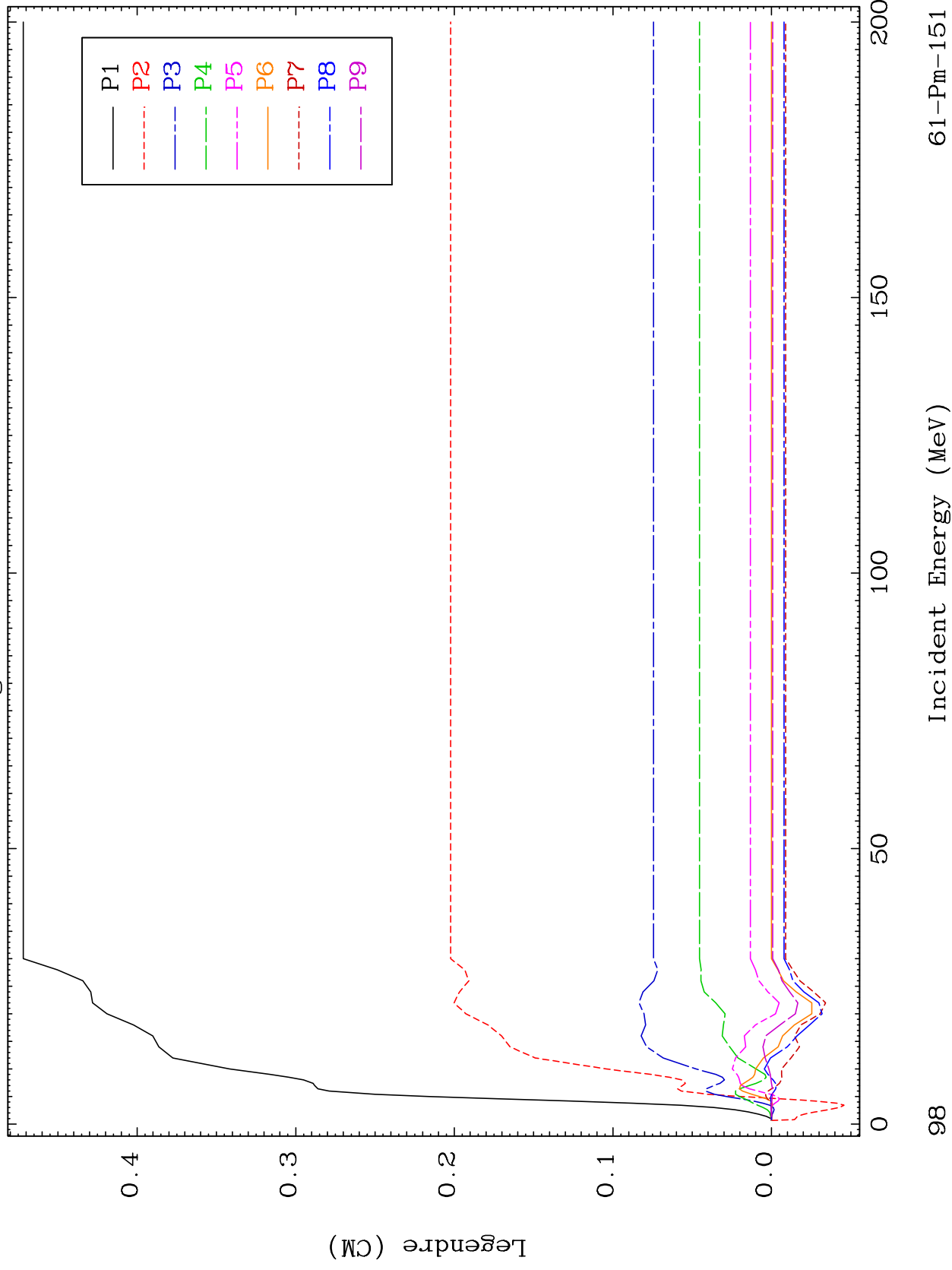




MAT 6161

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

61-Pm-151



61-Pm-151

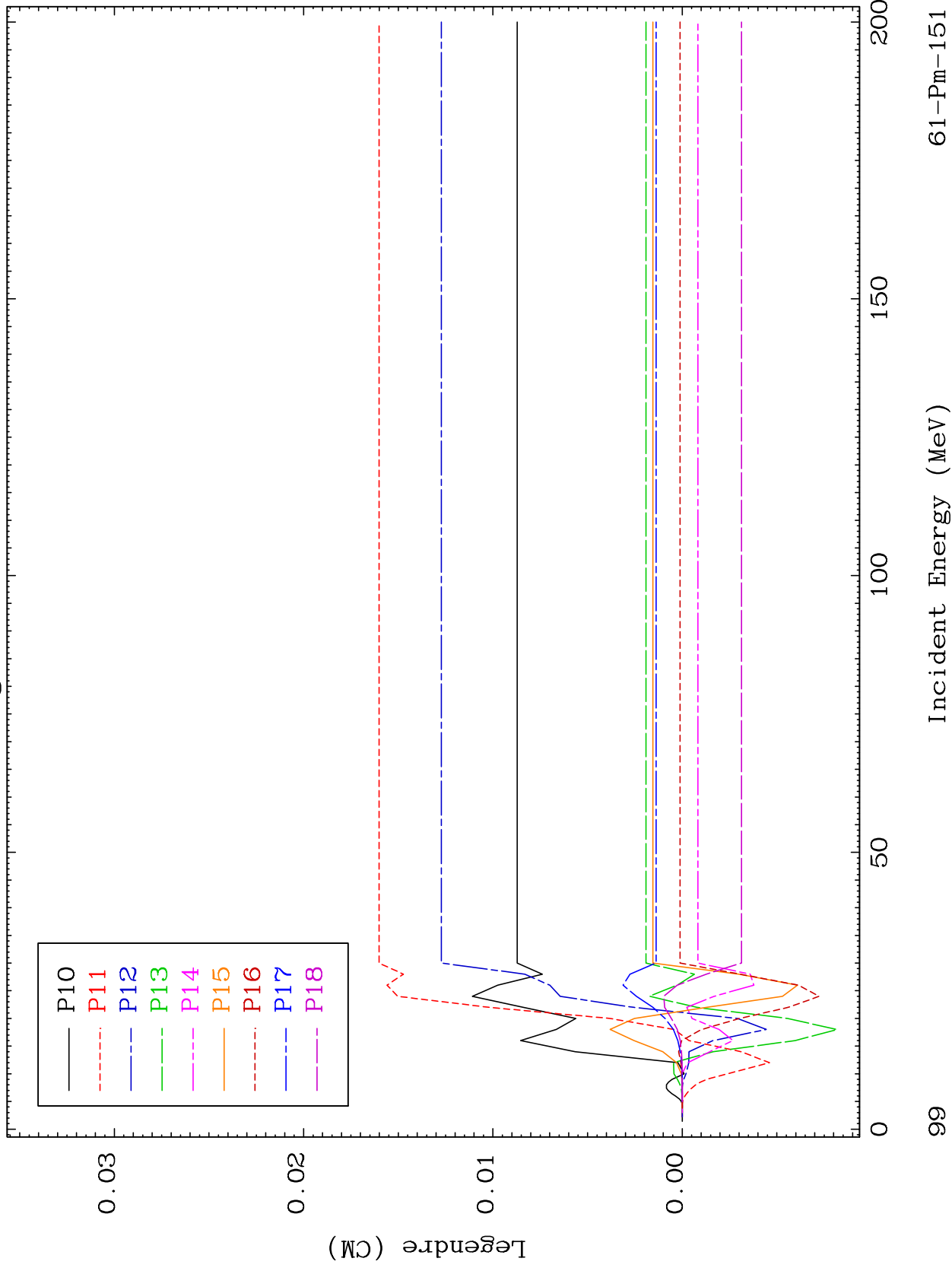
Incident Energy (MeV)

98

MAT 6161

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

61-Pm-151



61-Pm-151

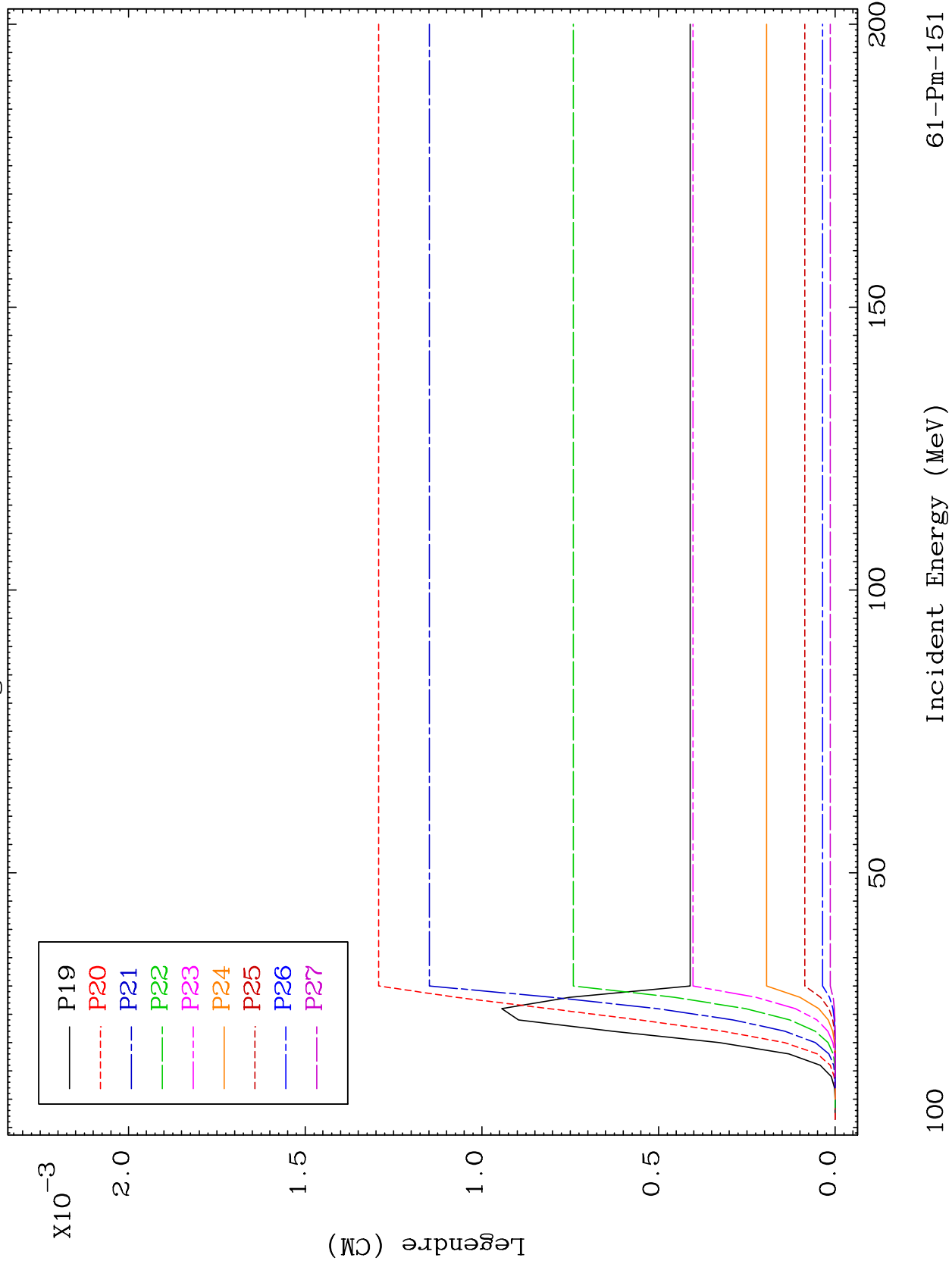
Incident Energy (MeV)

99

MAT 6161

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

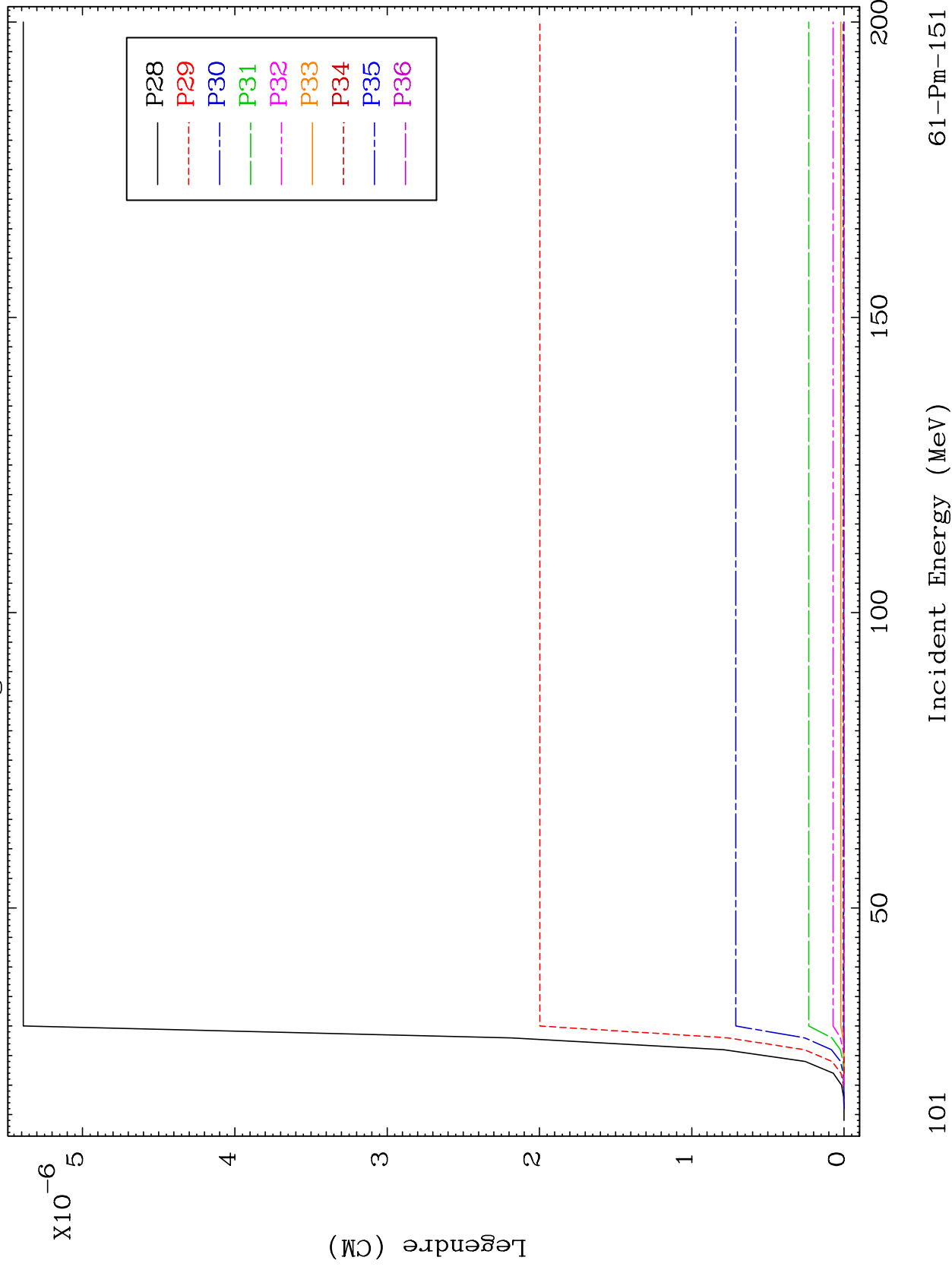
61-Pm-151



MAT 6161

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

61-Pm-151



101

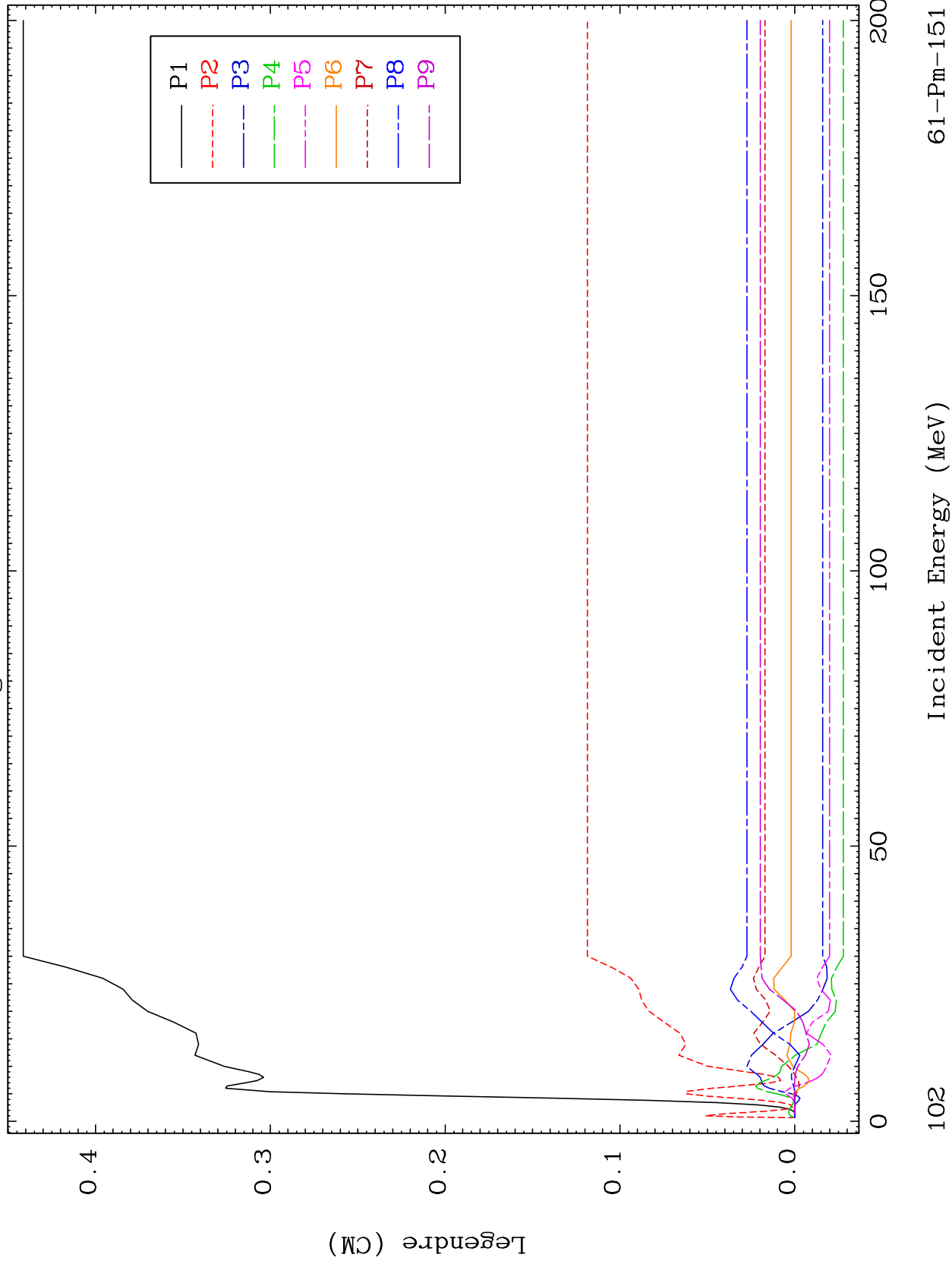
Incident Energy (MeV)

61-Pm-151

MAT 6161

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

61-Pm-151



61-Pm-151

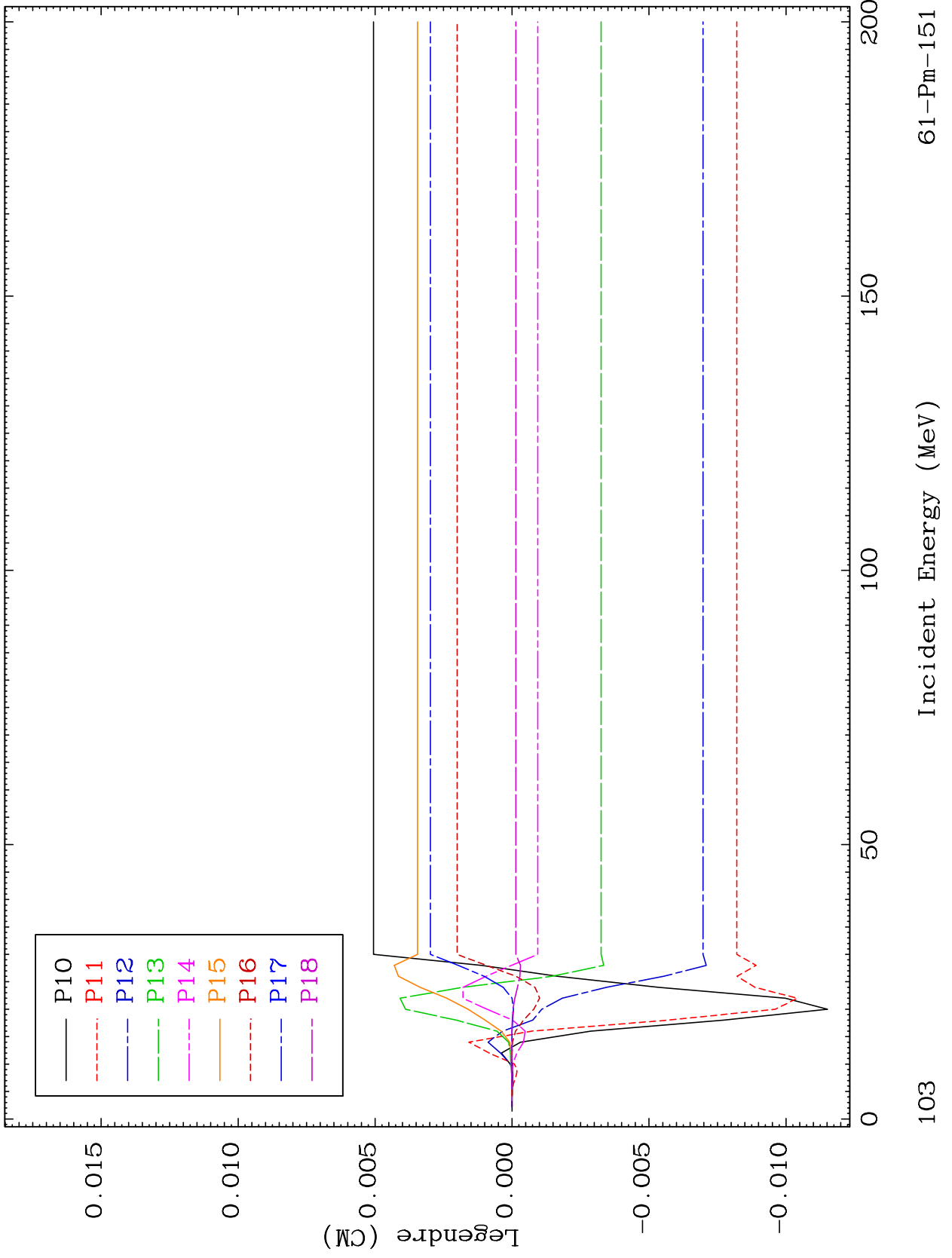
Incident Energy (MeV)

102

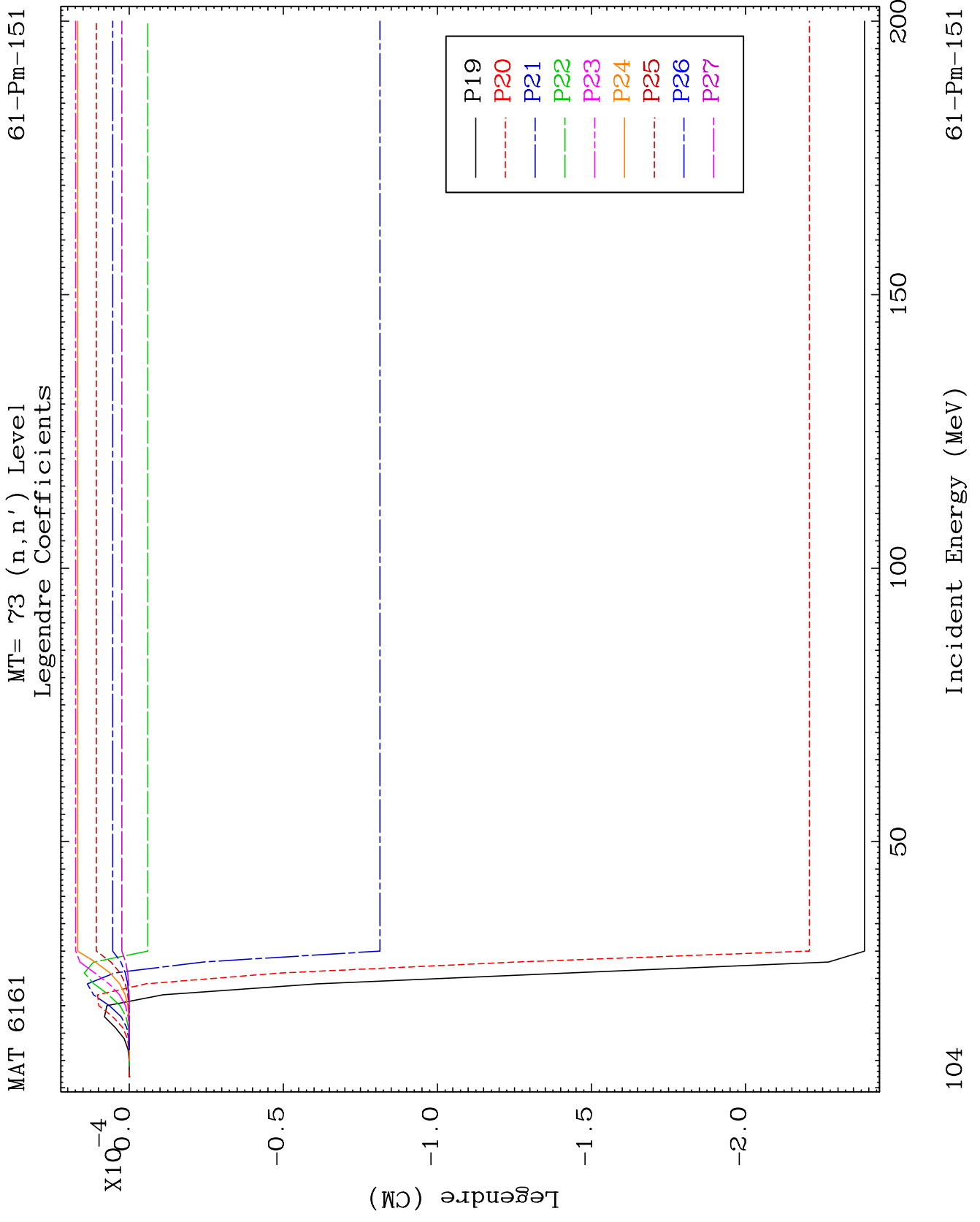
MAT 6161

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

61-Pm-151



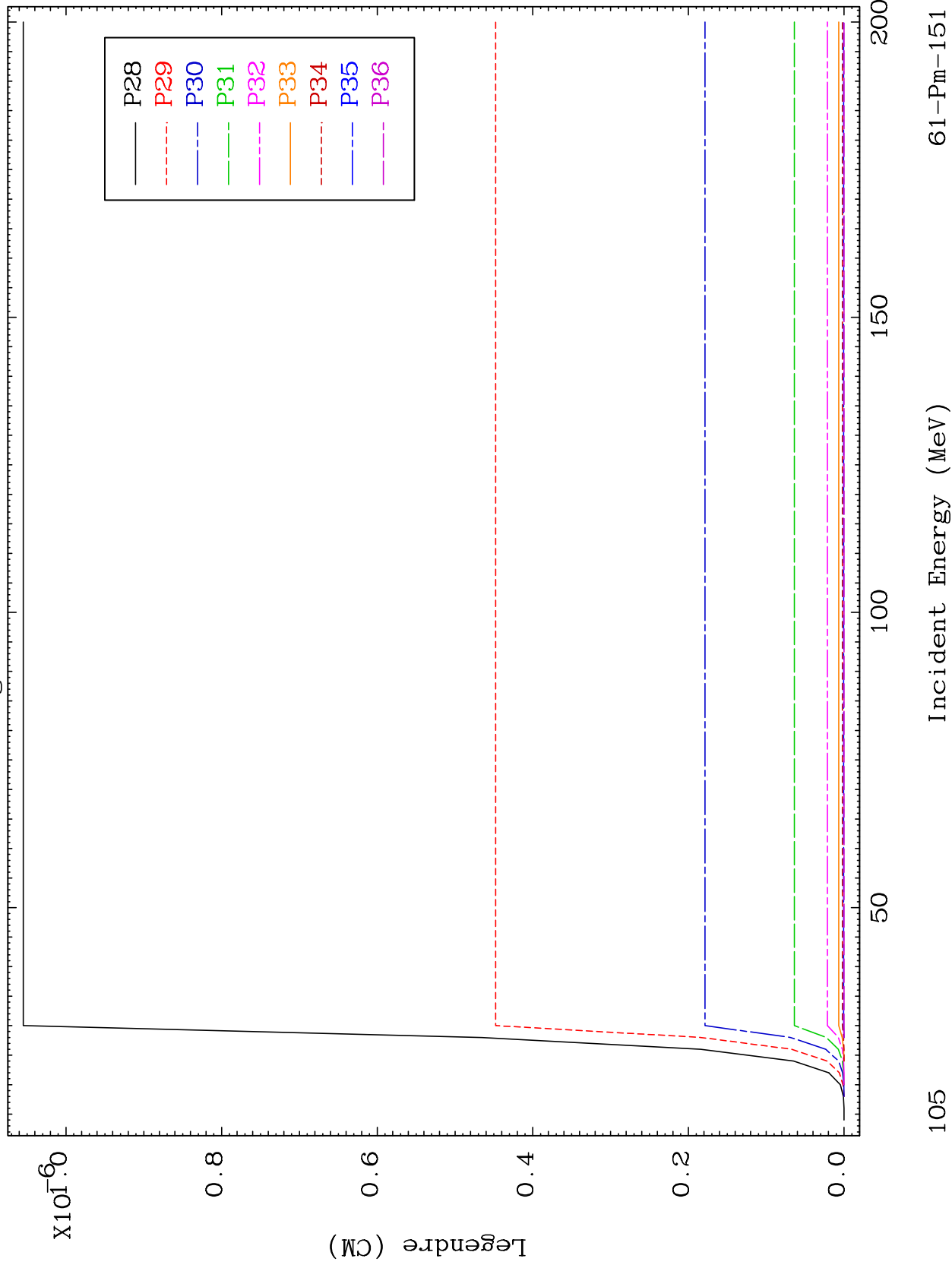
103



MAT 6161

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

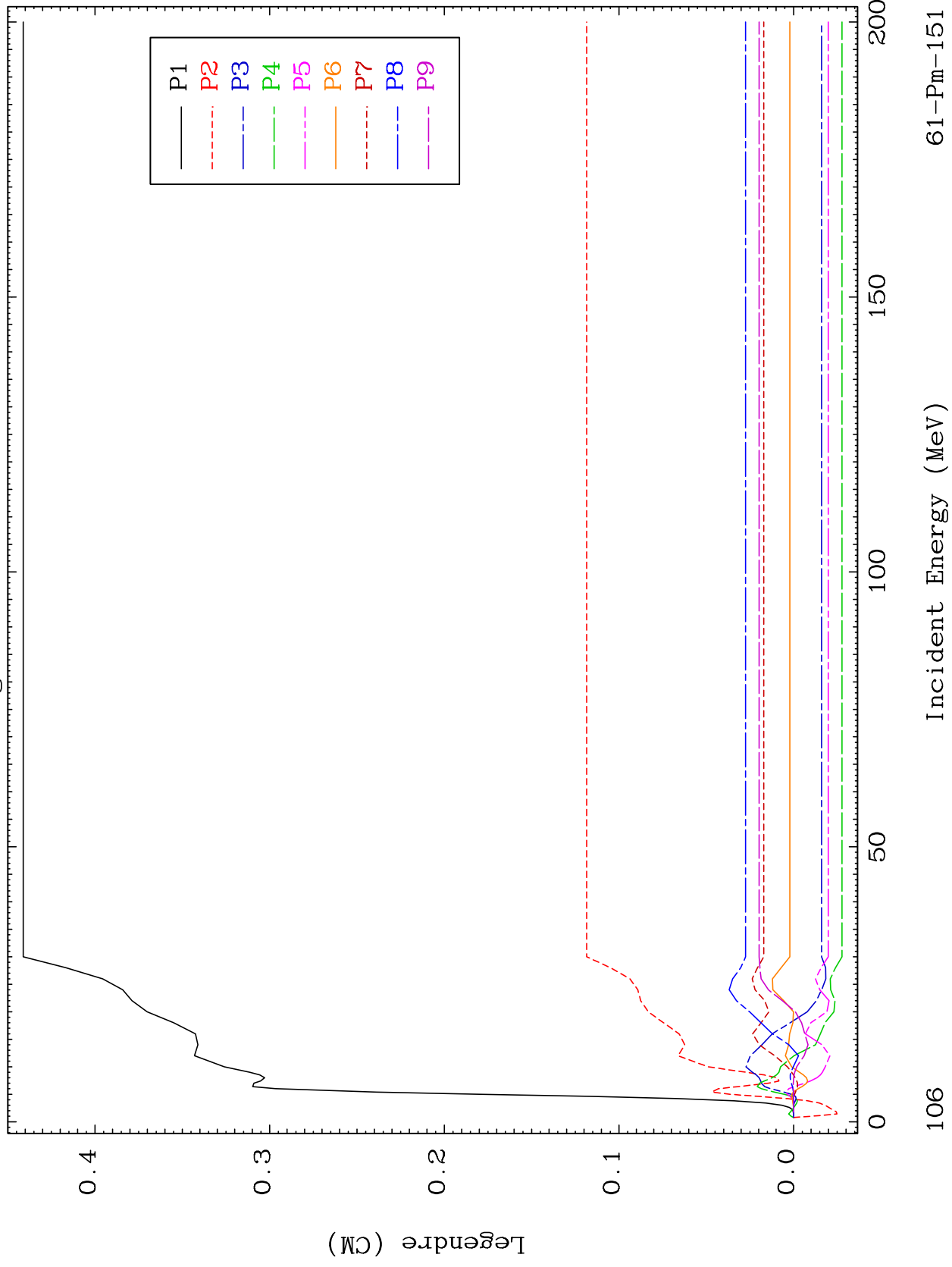
61-Pm-151



MAT 6161

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

61-Pm-151

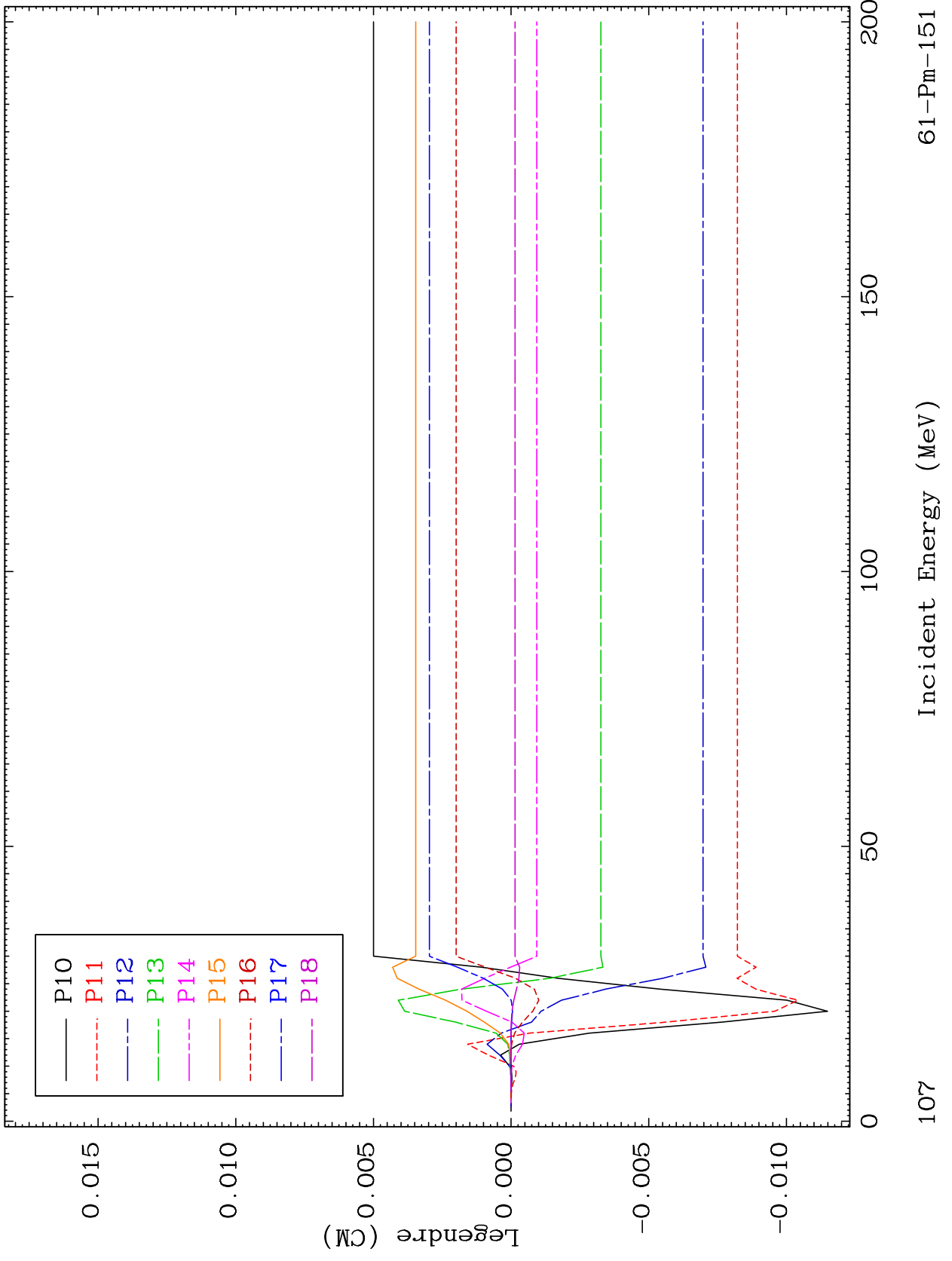


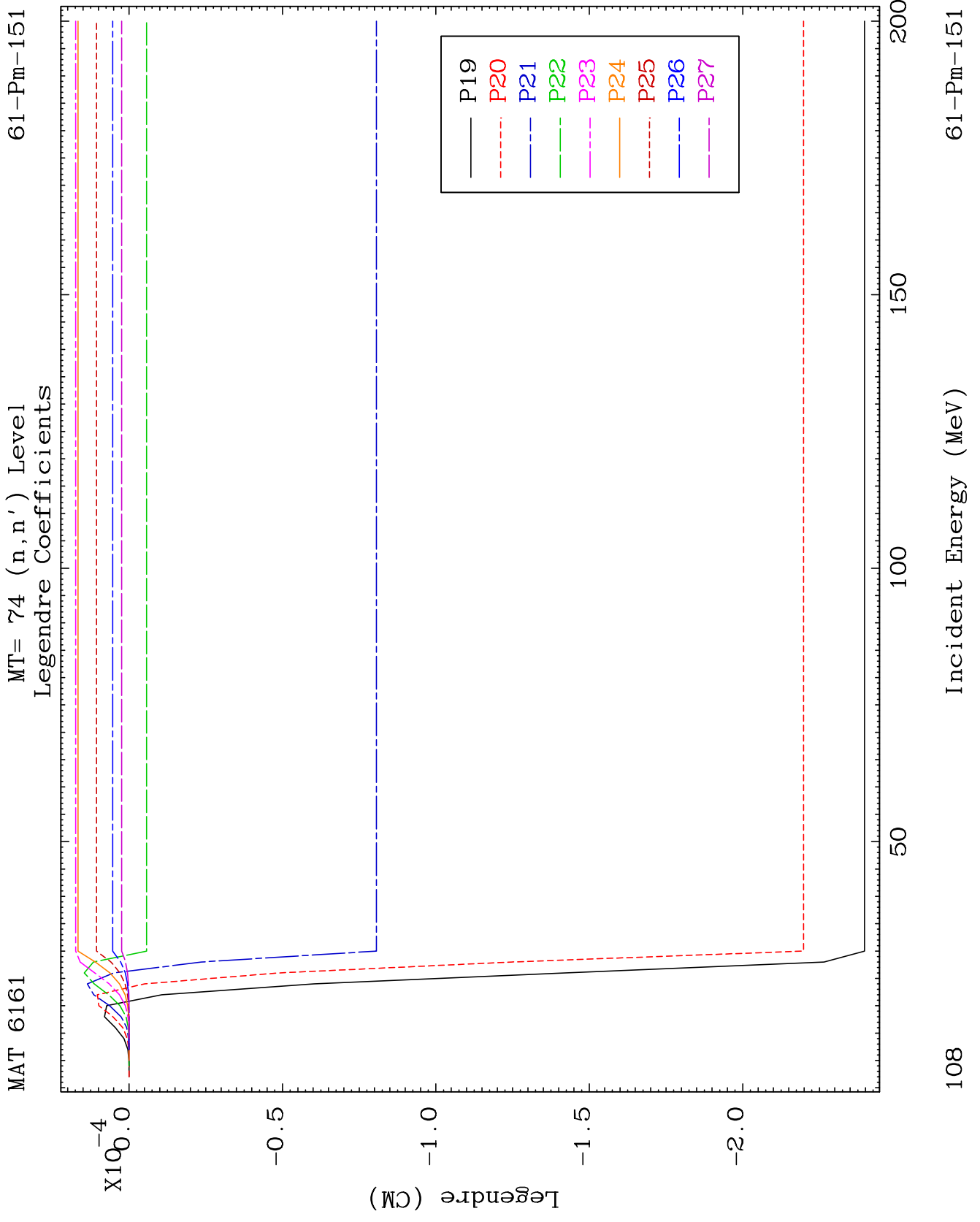
106

MAT 6161

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

61-Pm-151

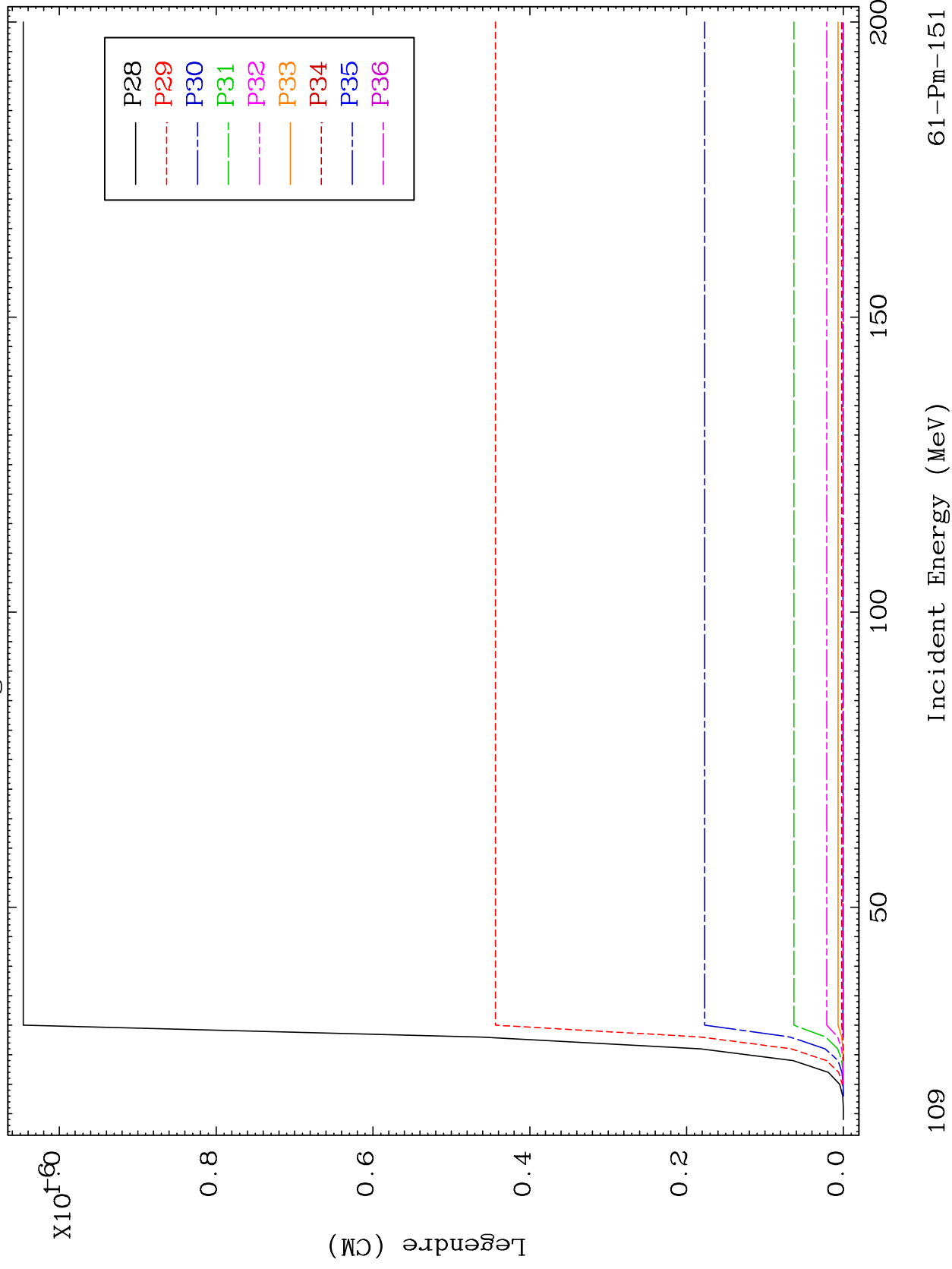




MAT 6161

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

61-Pm-151



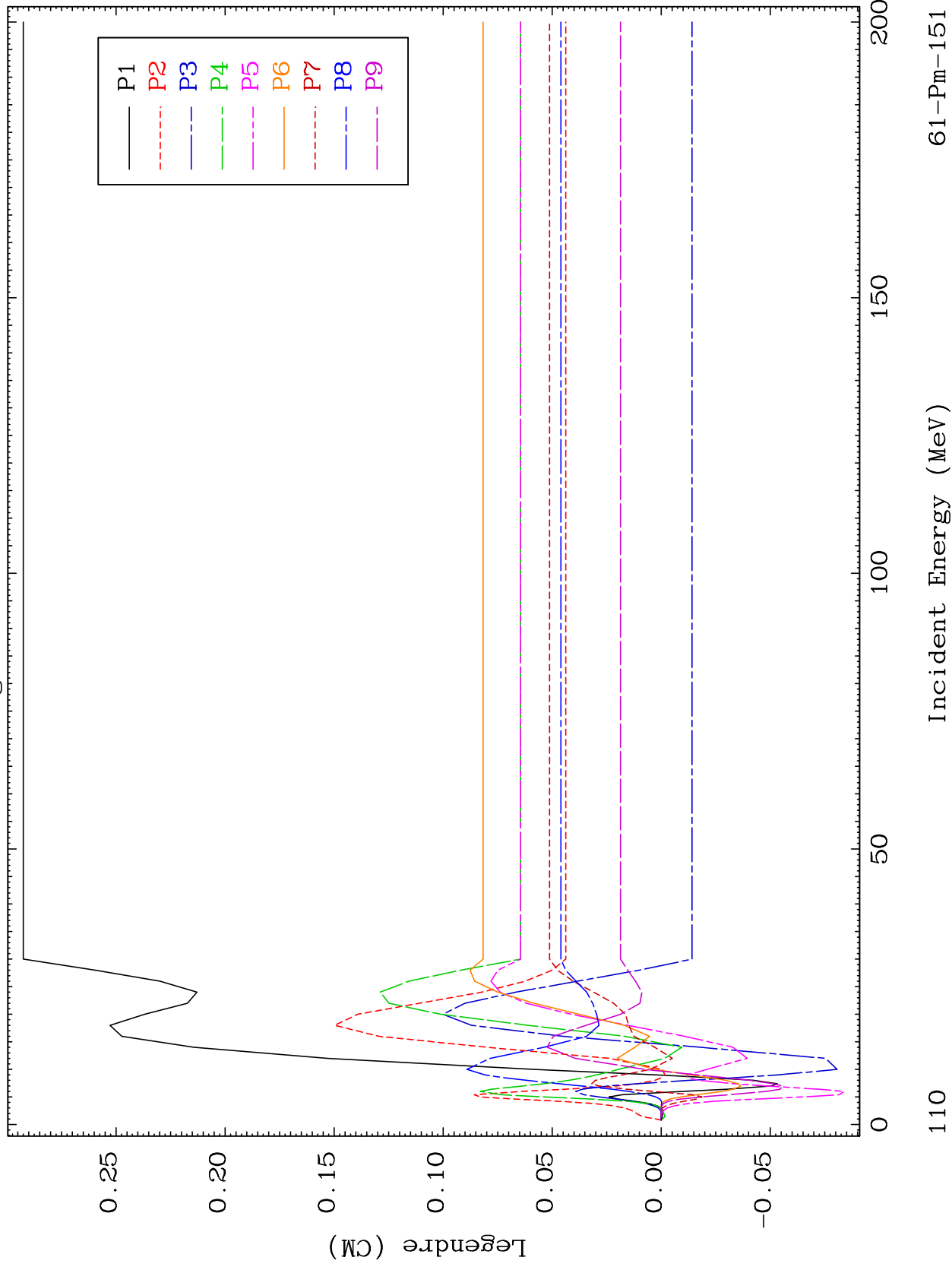
109

61-Pm-151

MAT 6161

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

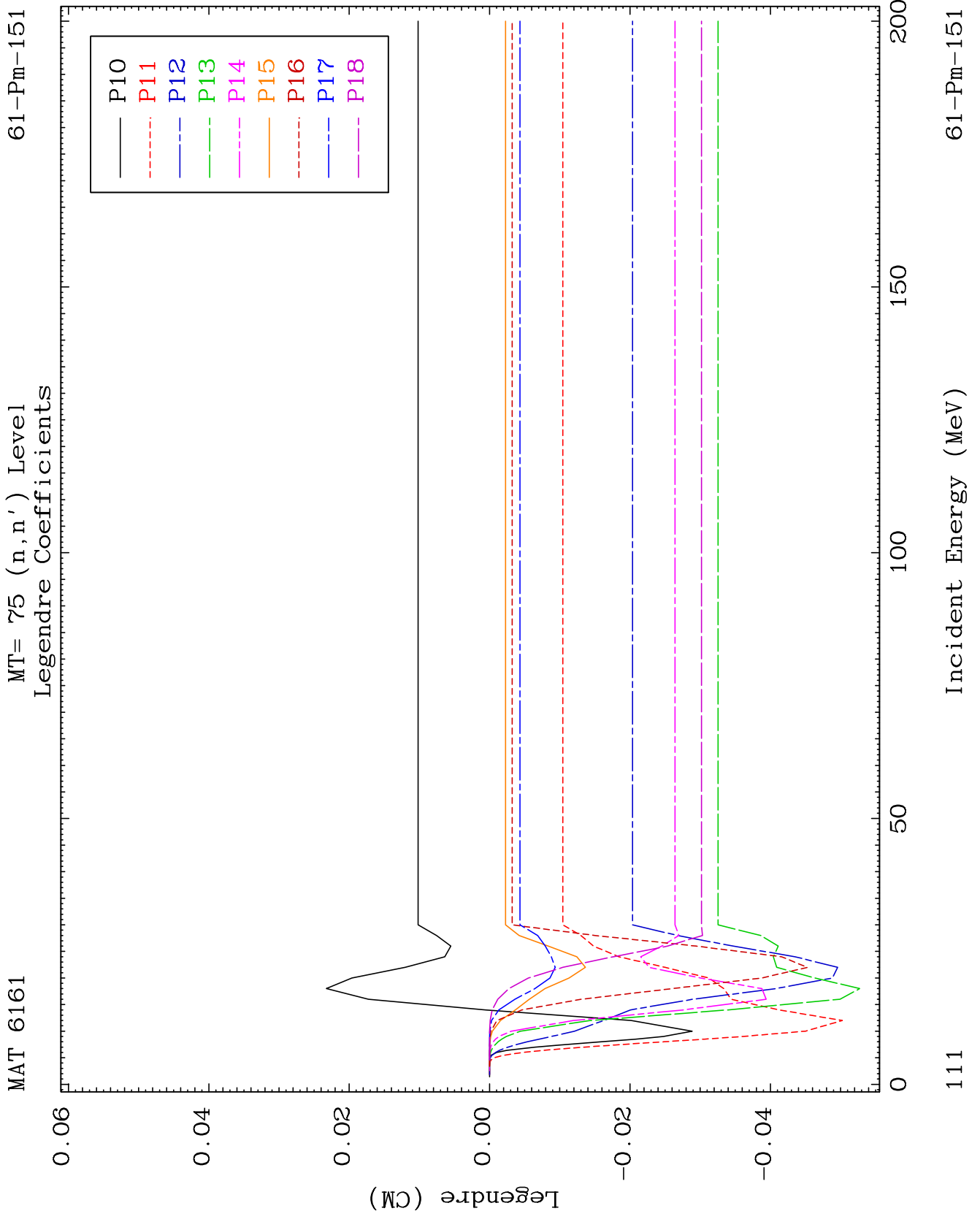
61-Pm-151



61-Pm-151

Incident Energy (MeV)

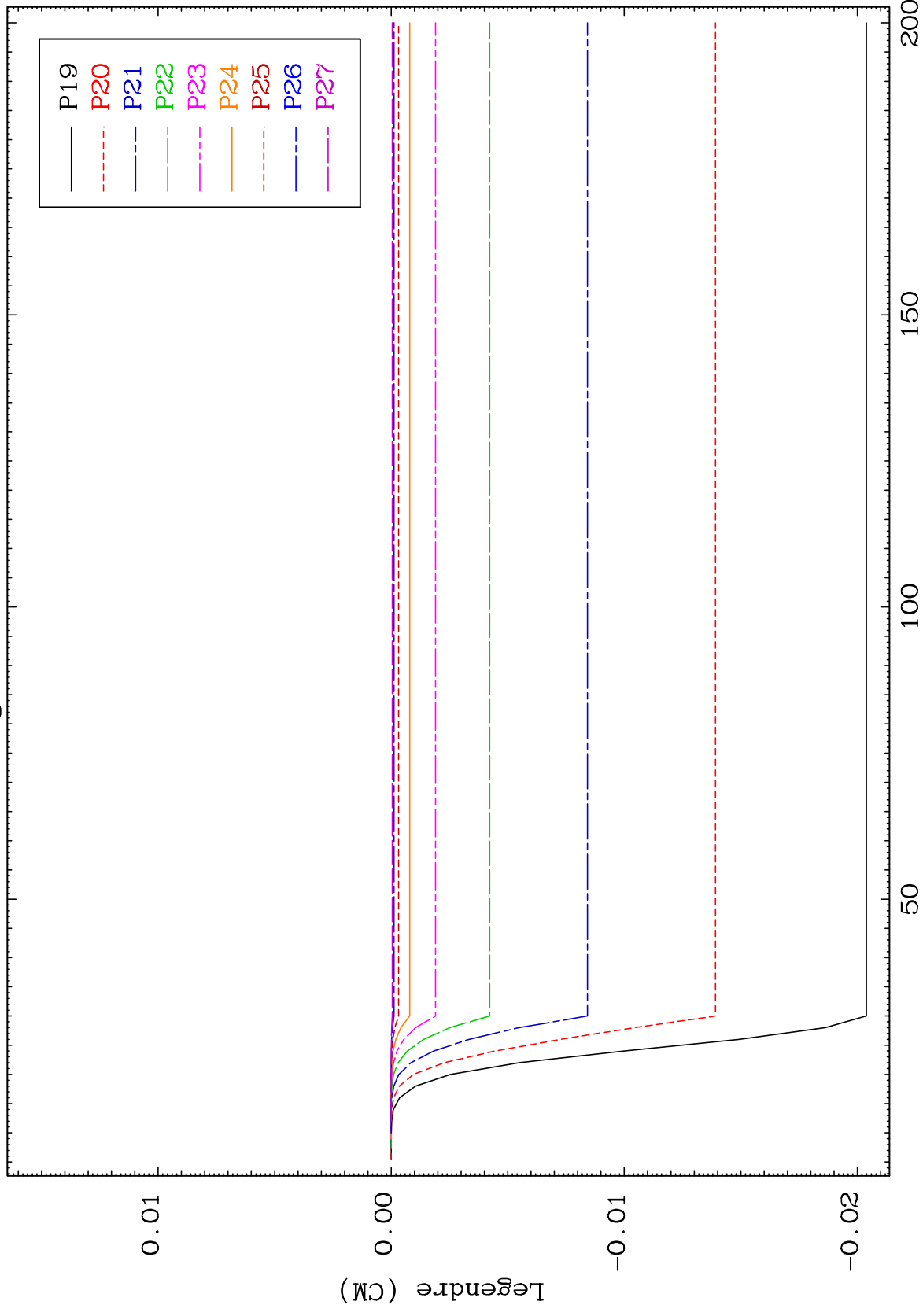
0



MAT 6161

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

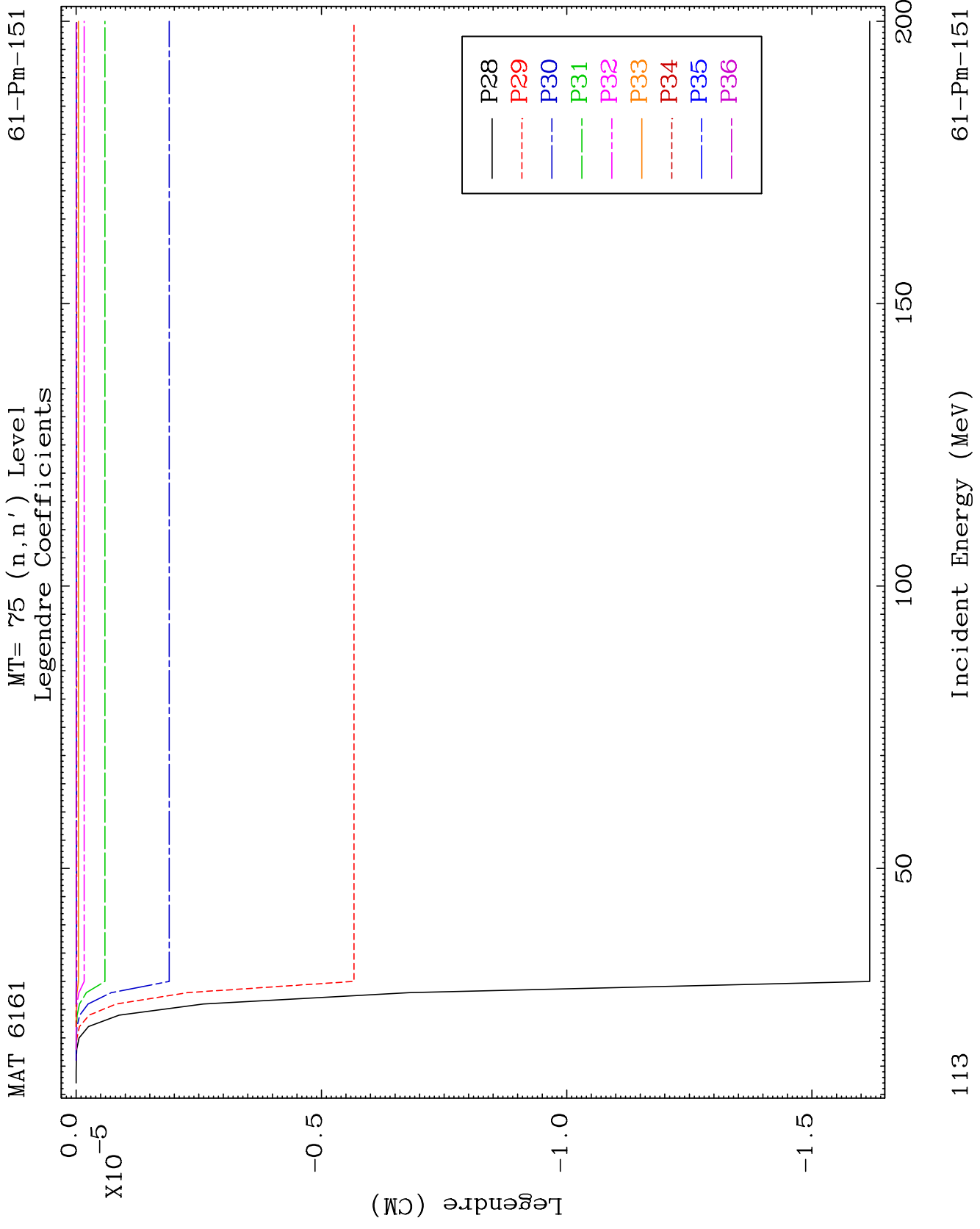
61-Pm-151



112

Incident Energy (MeV)

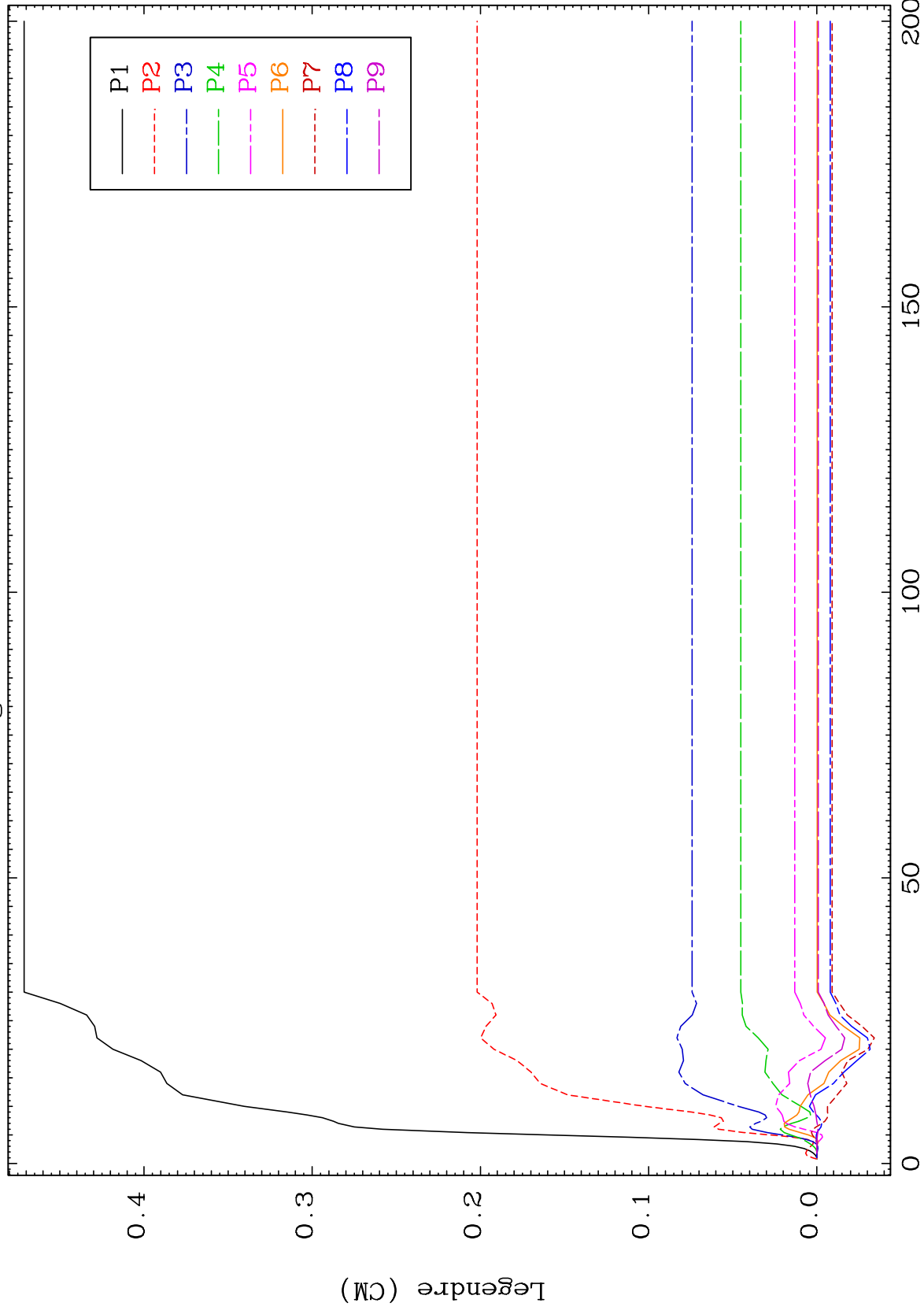
61-Pm-151



MAT 6161

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

61-Pm-151



114

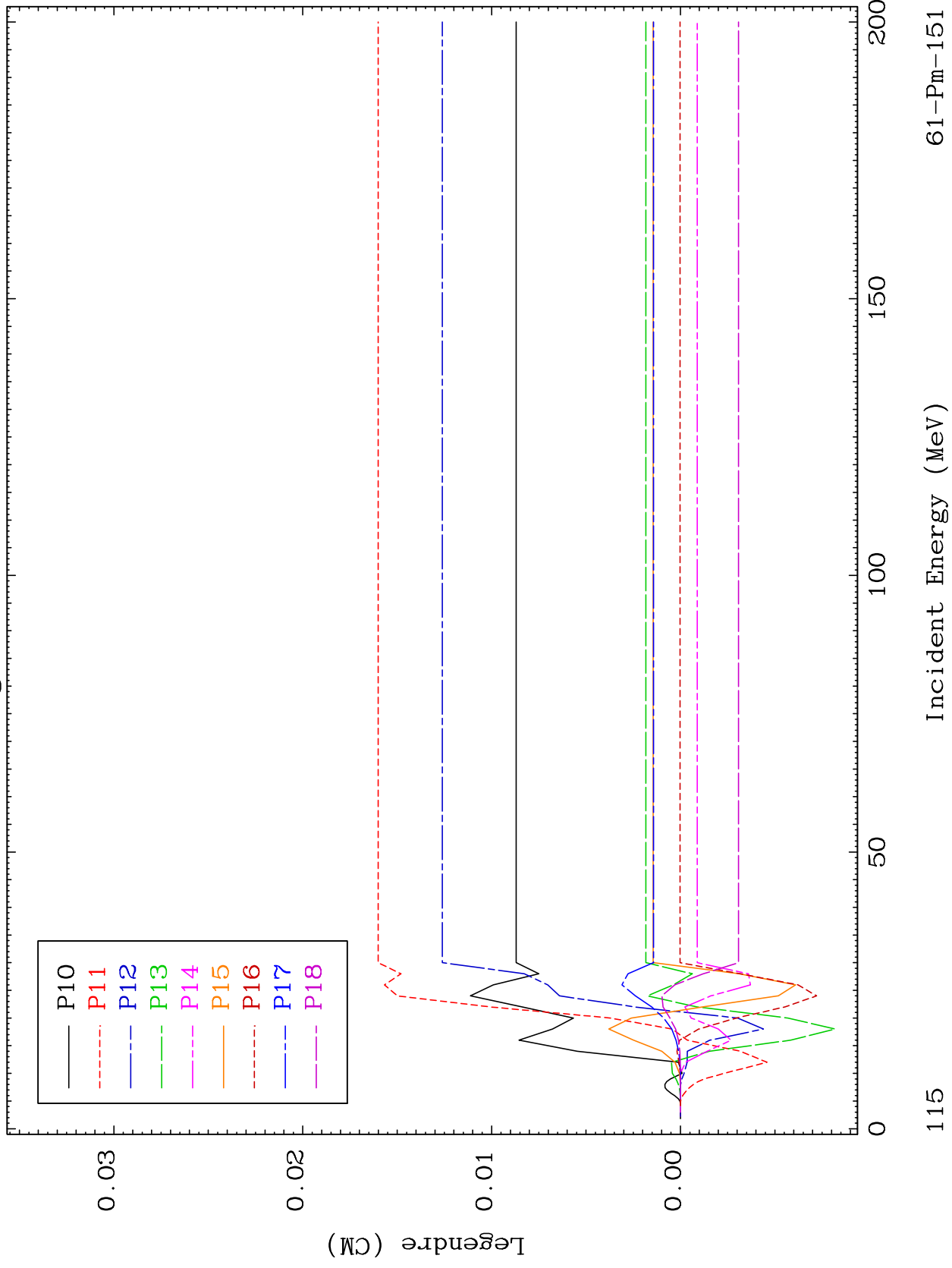
Incident Energy (MeV)

61-Pm-151

MAT 6161

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

61-Pm-151



61-Pm-151

Incident Energy (MeV)

115

MAT 6161

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

61-Pm-151

$\times 10^{-3}$

2.0

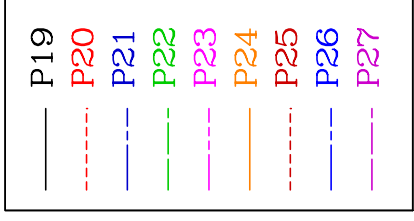
1.5

1.0

0.5

0.0

Legendre (CM)



50 100 150 200

116

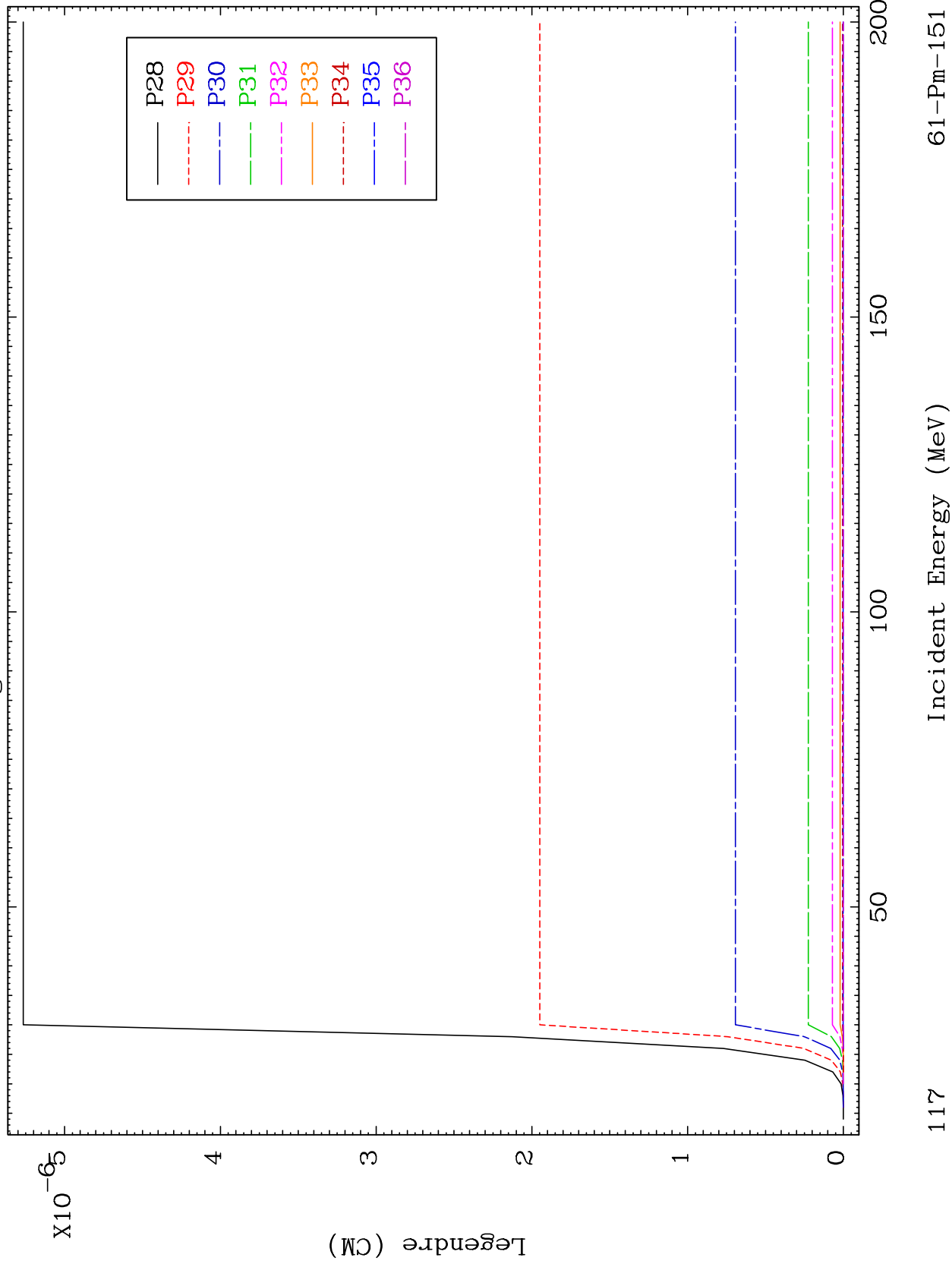
Incident Energy (MeV)

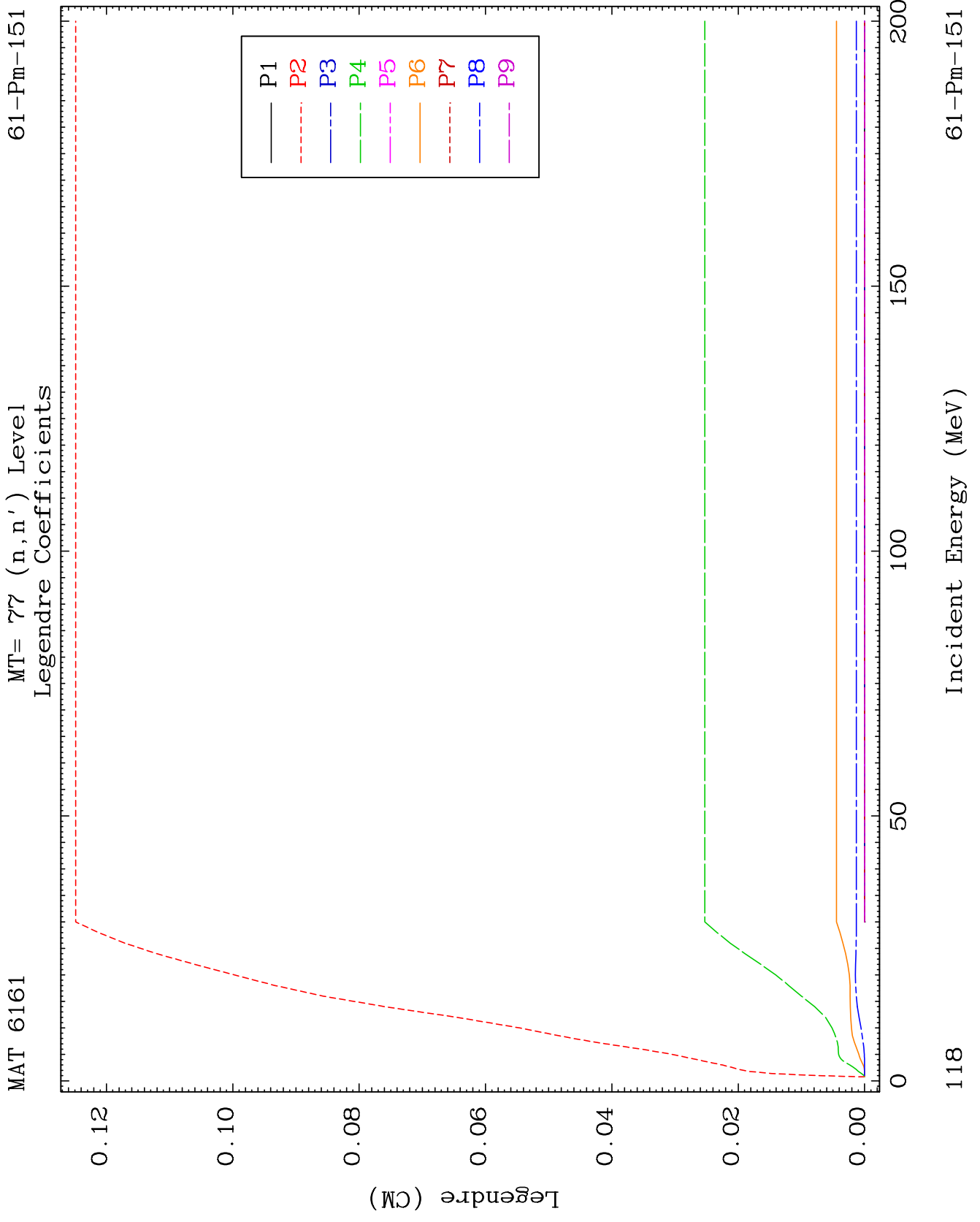
61-Pm-151

MAT 6161

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

61-Pm-151

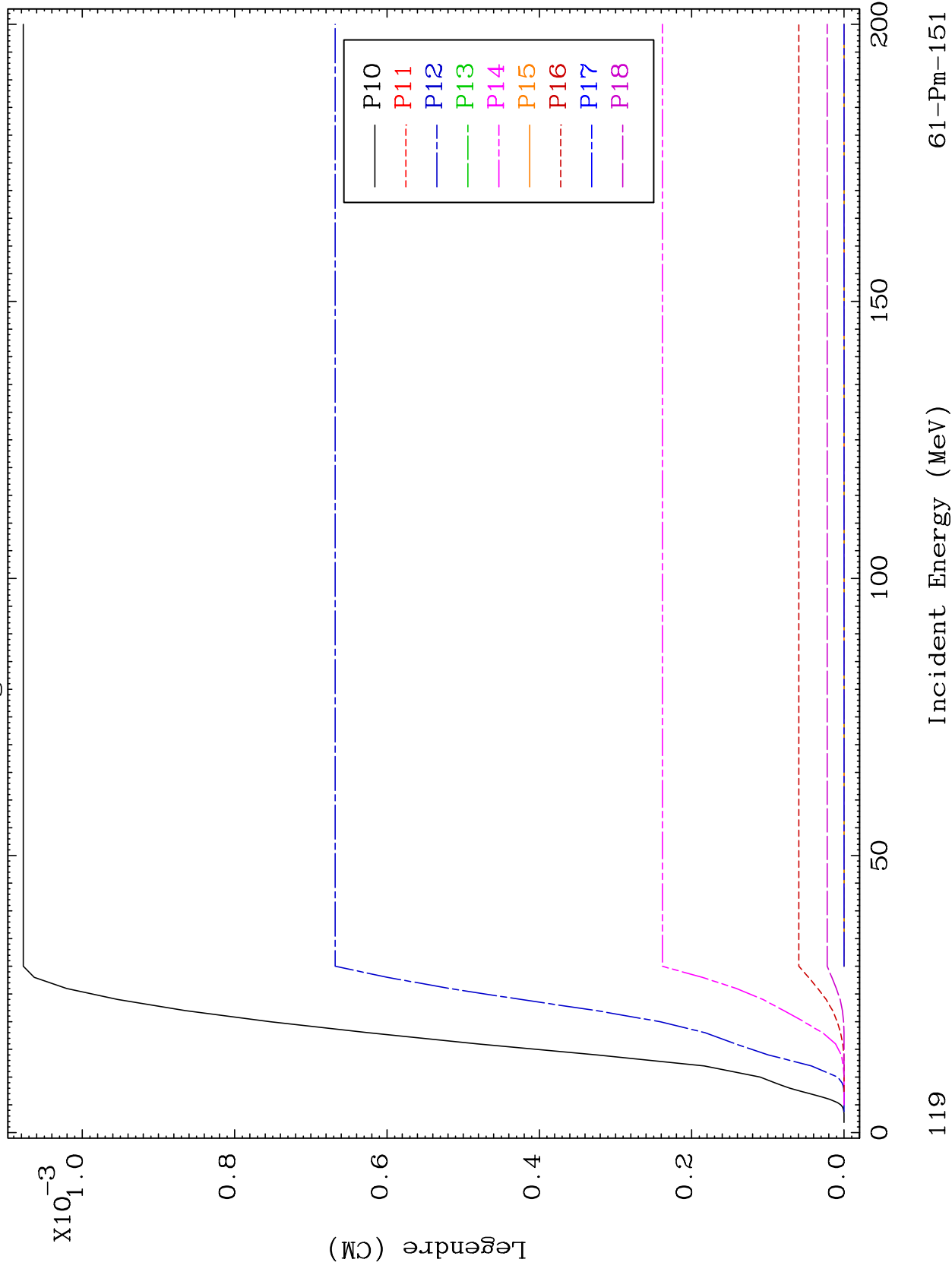




MAT 6161

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

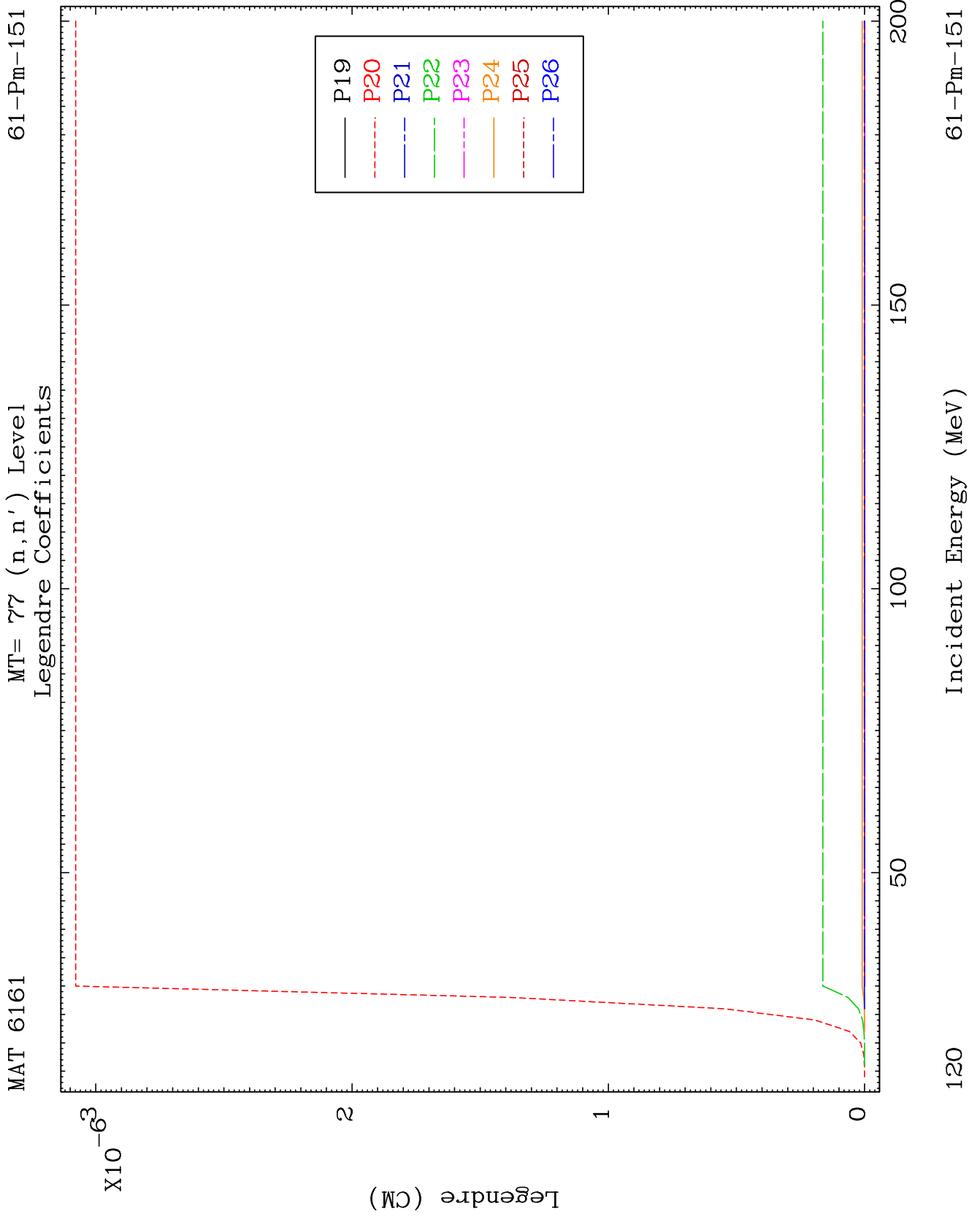
61-Pm-151



61-Pm-151

Incident Energy (MeV)

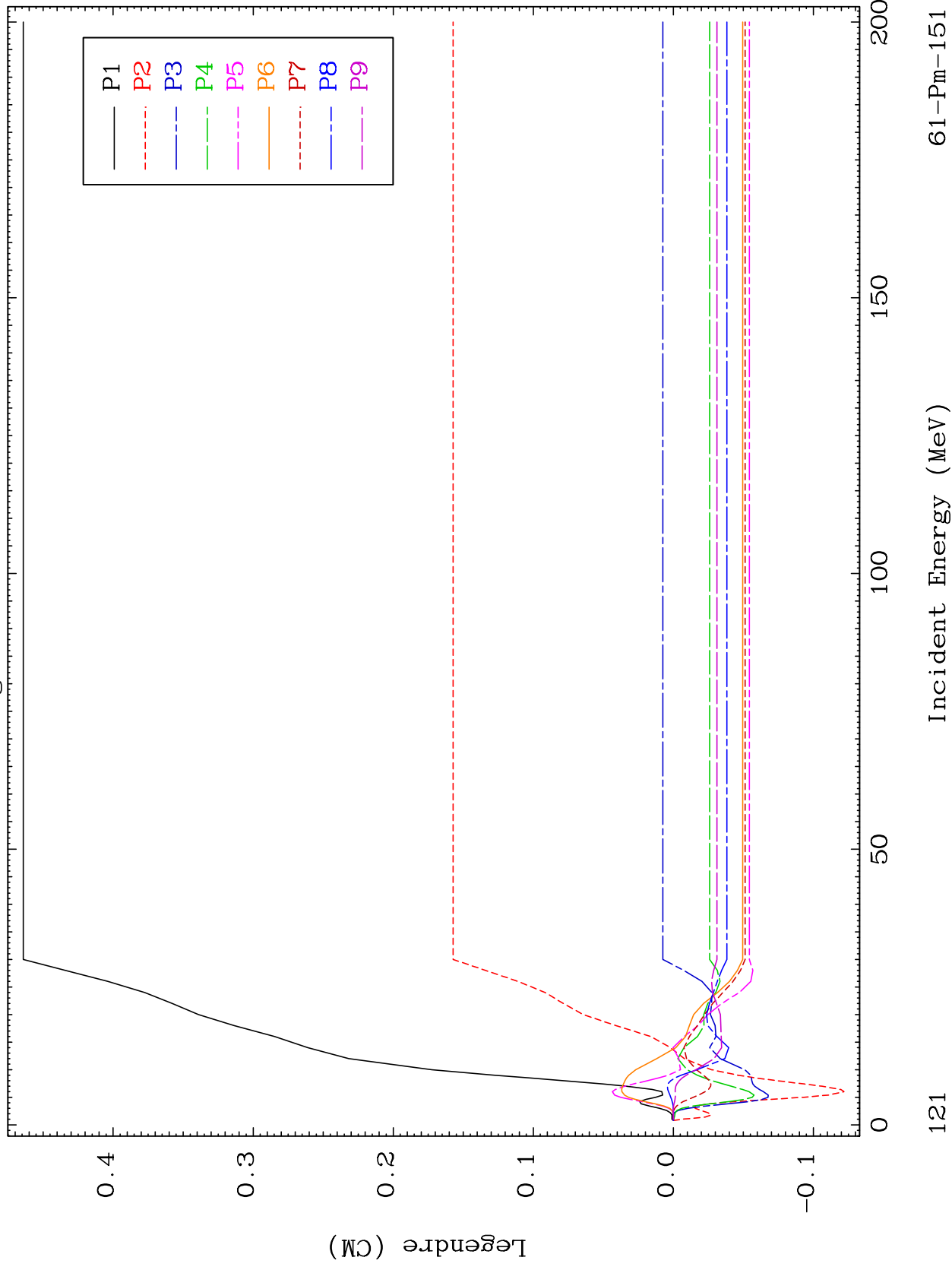
119



MAT 6161

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

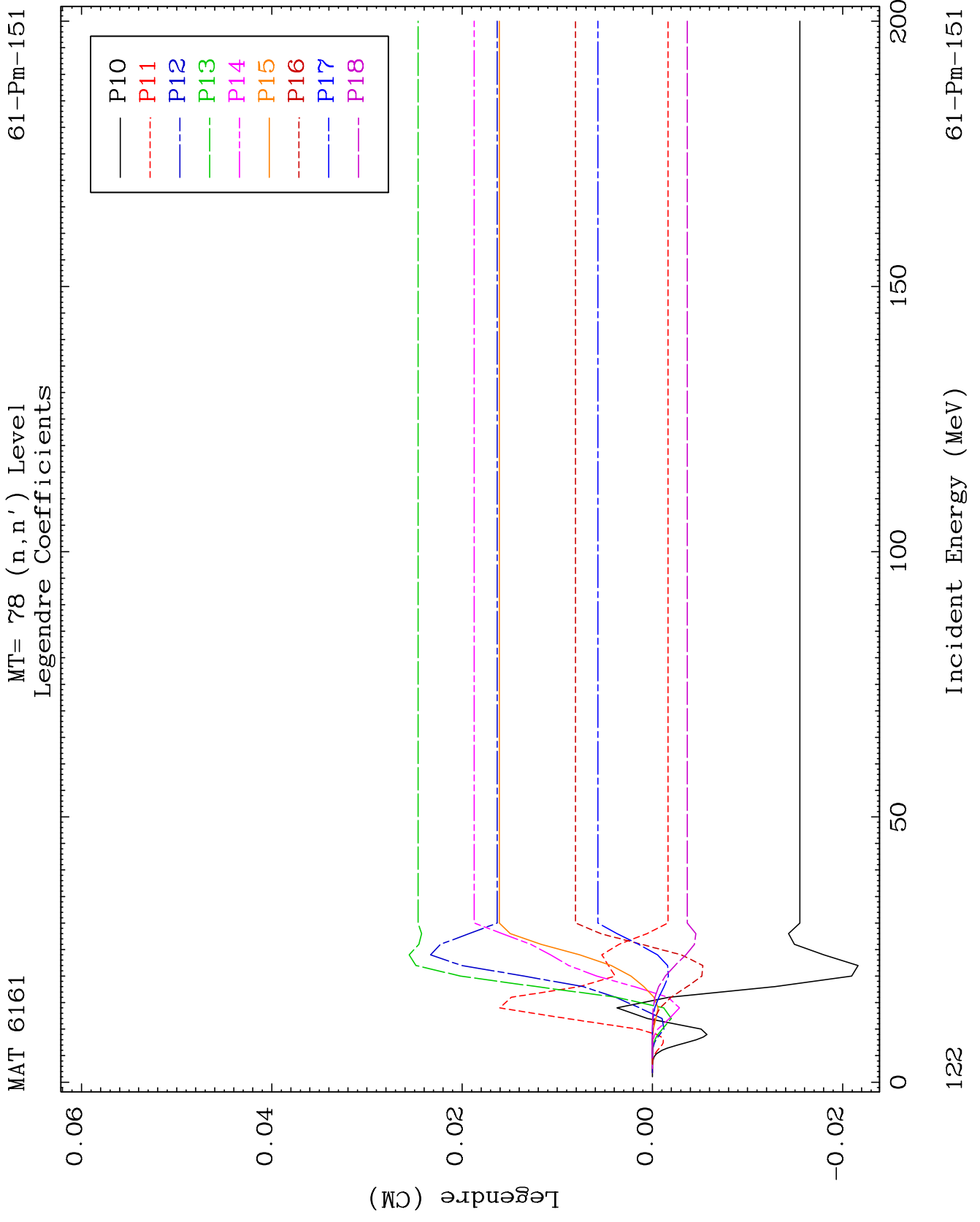
61-Pm-151



121

Incident Energy (MeV)

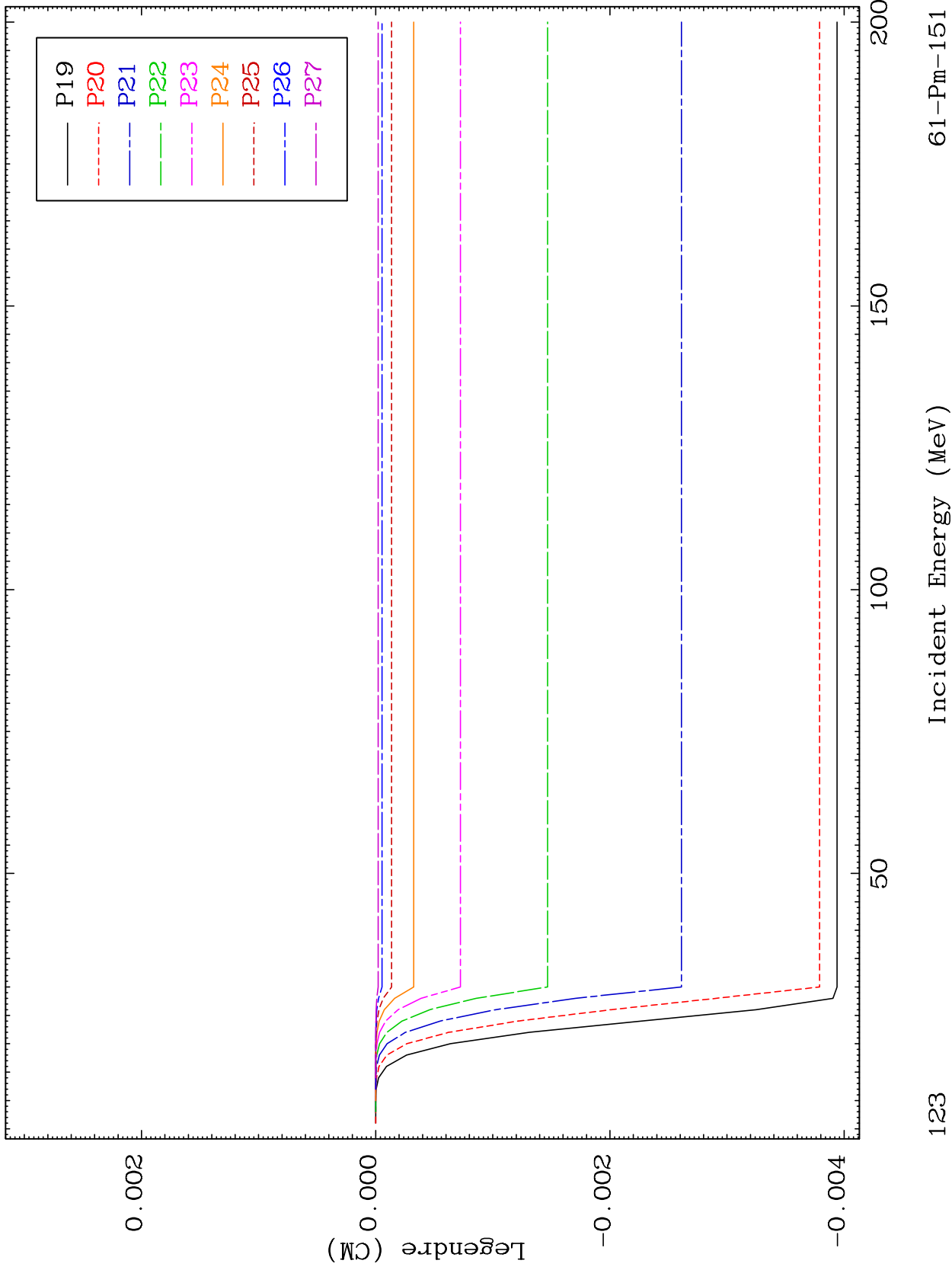
61-Pm-151



MAT 6161

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

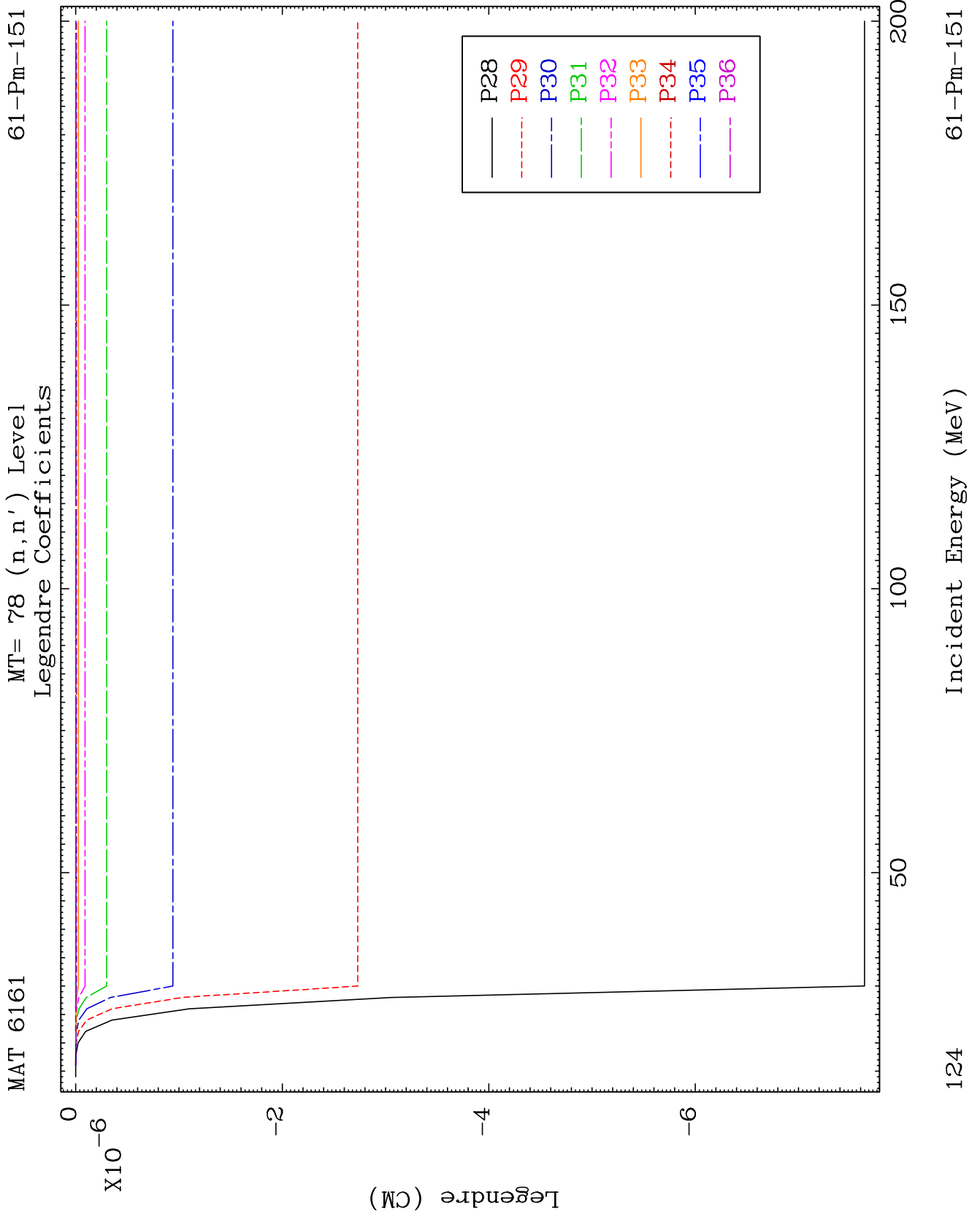
61-Pm-151

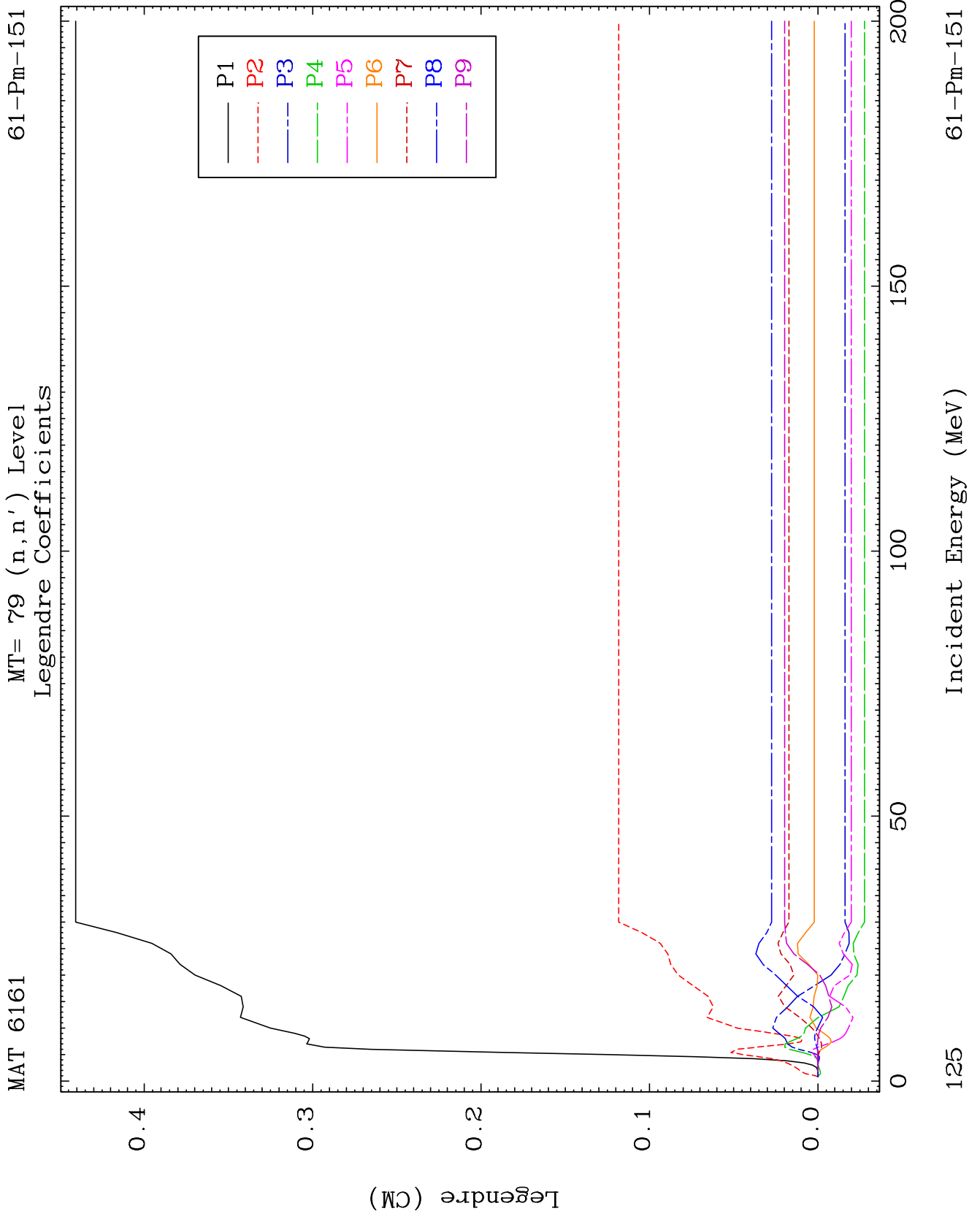


123

Incident Energy (MeV)

61-Pm-151

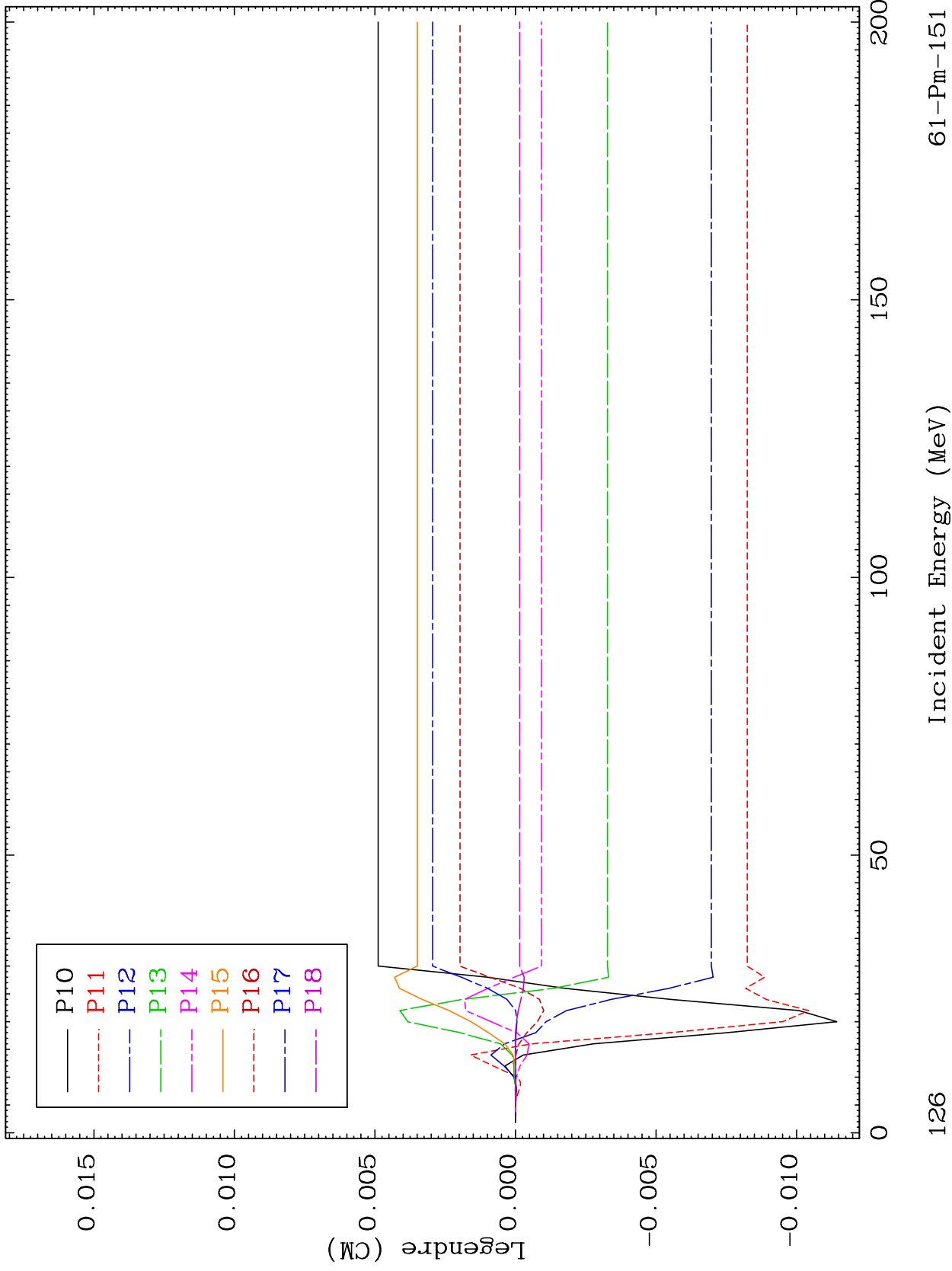




MAT 6161

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

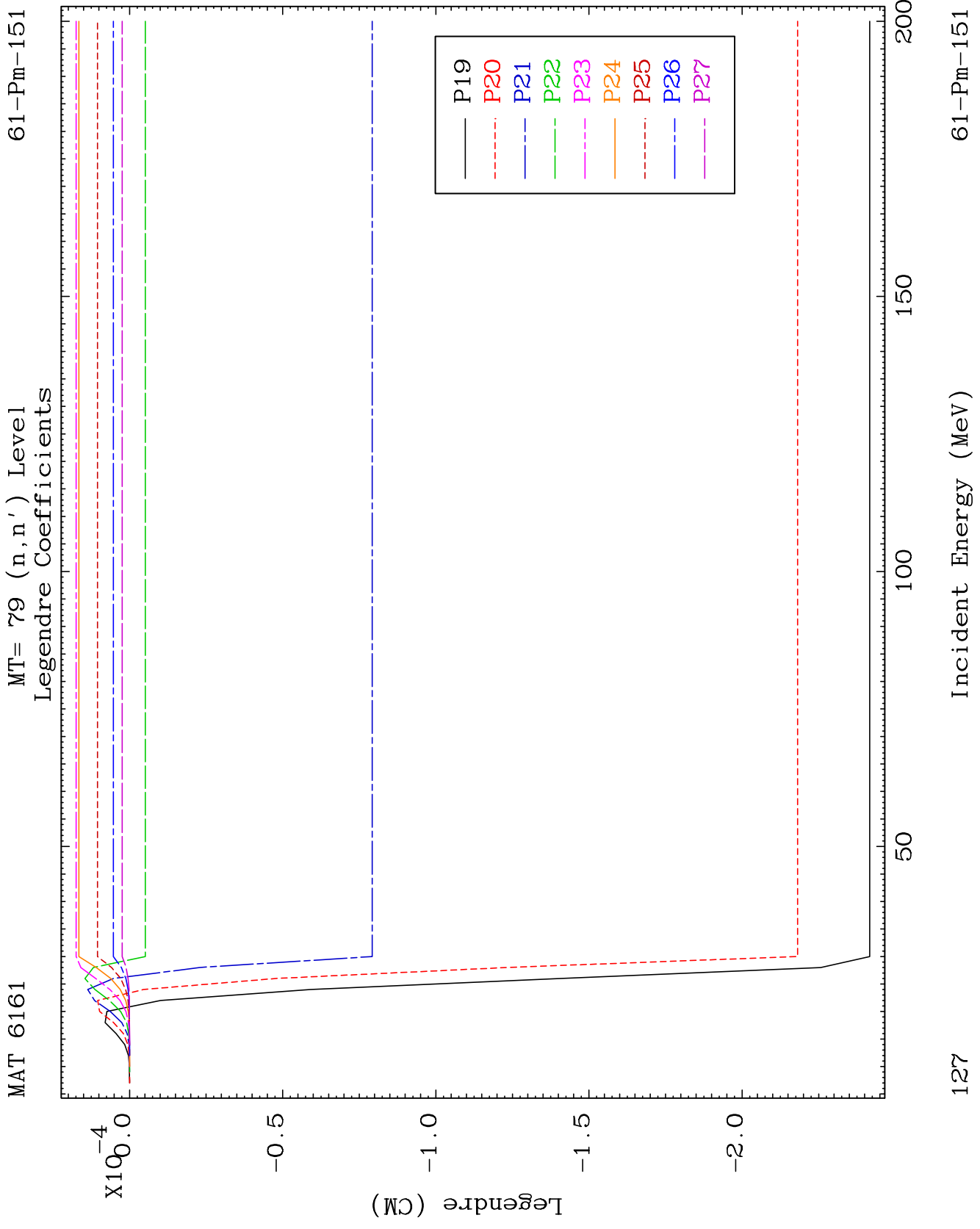
61-Pm-151



126

Incident Energy (MeV)

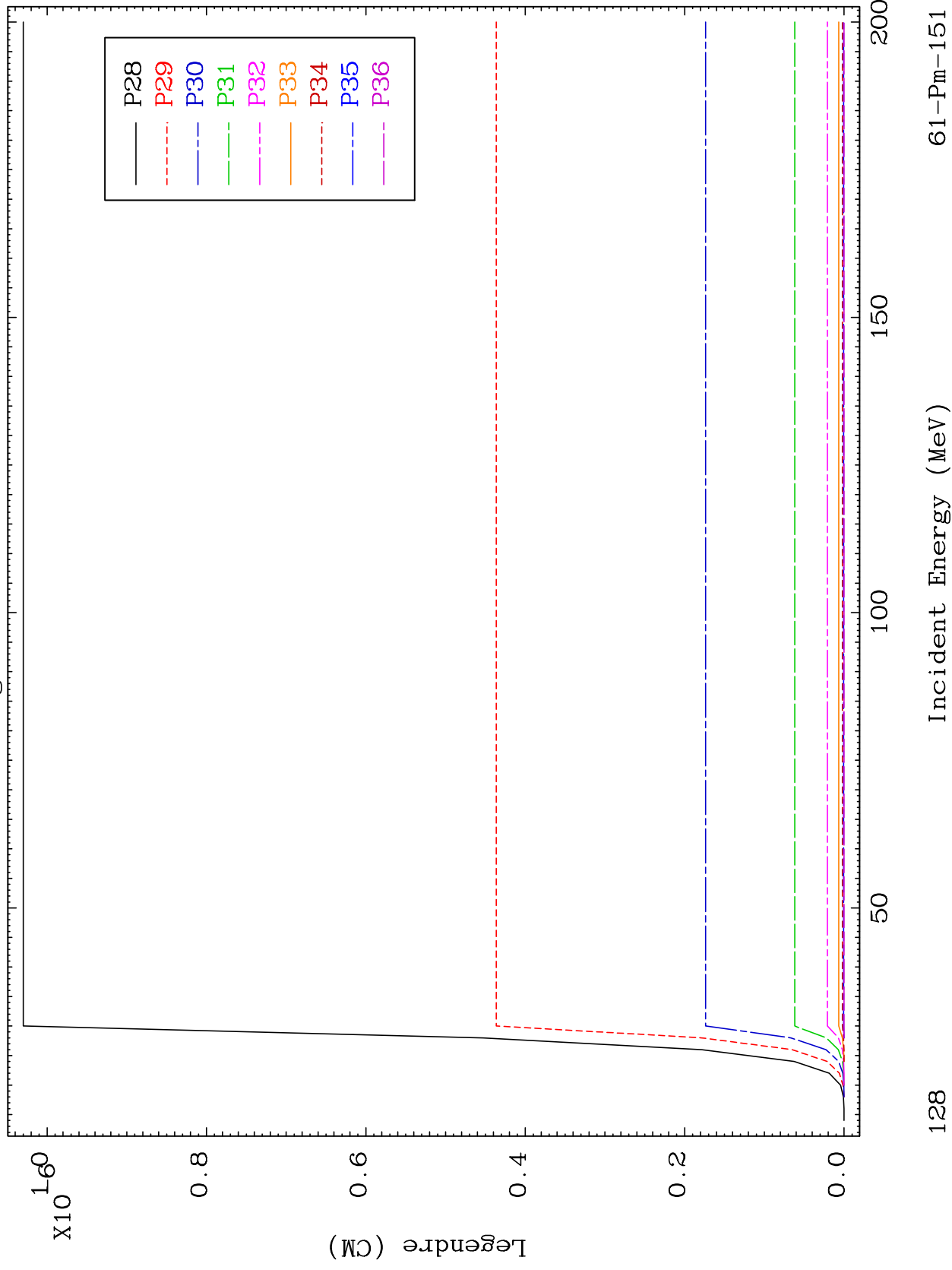
61-Pm-151



MAT 6161

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

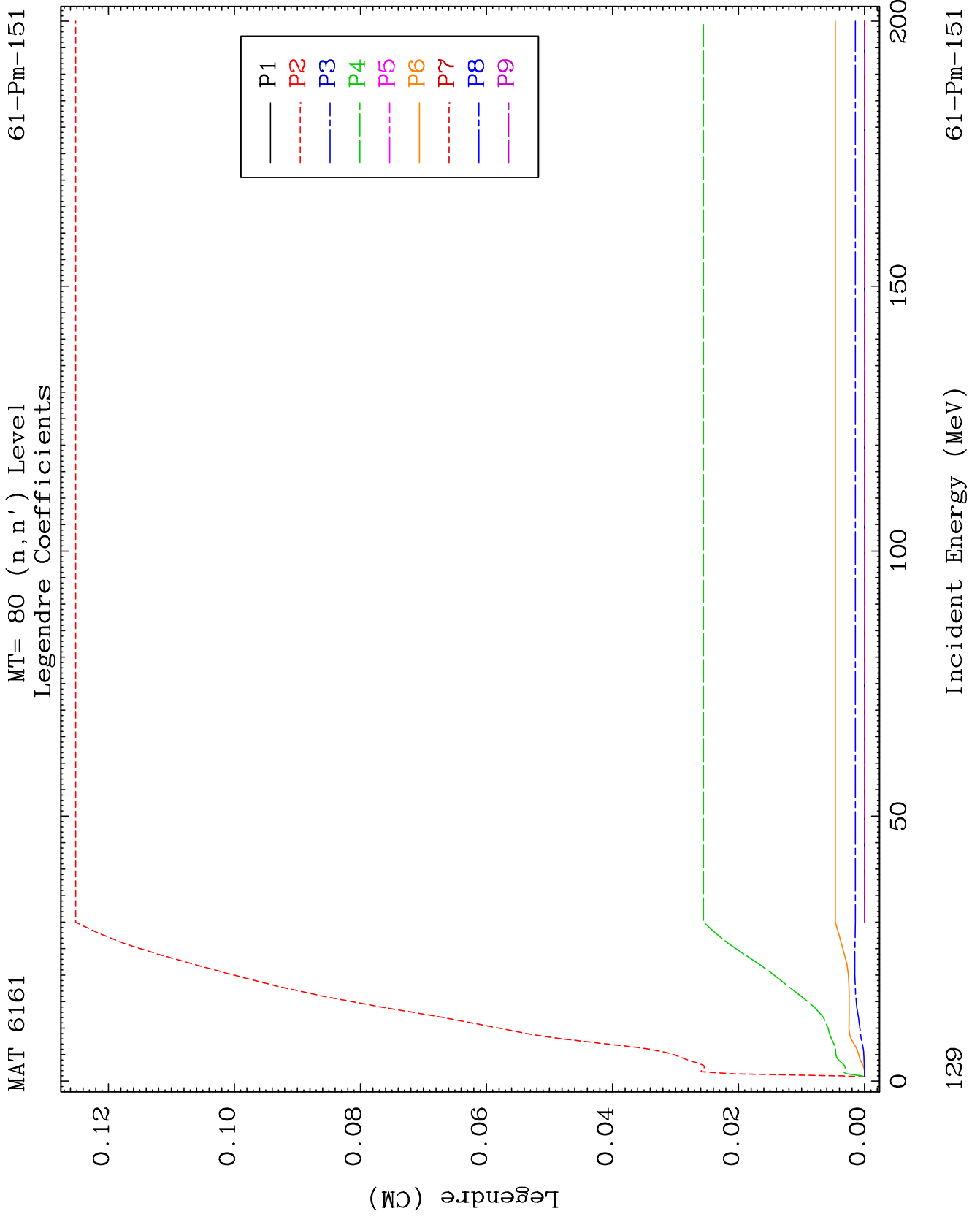
61-Pm-151



128

Incident Energy (MeV)

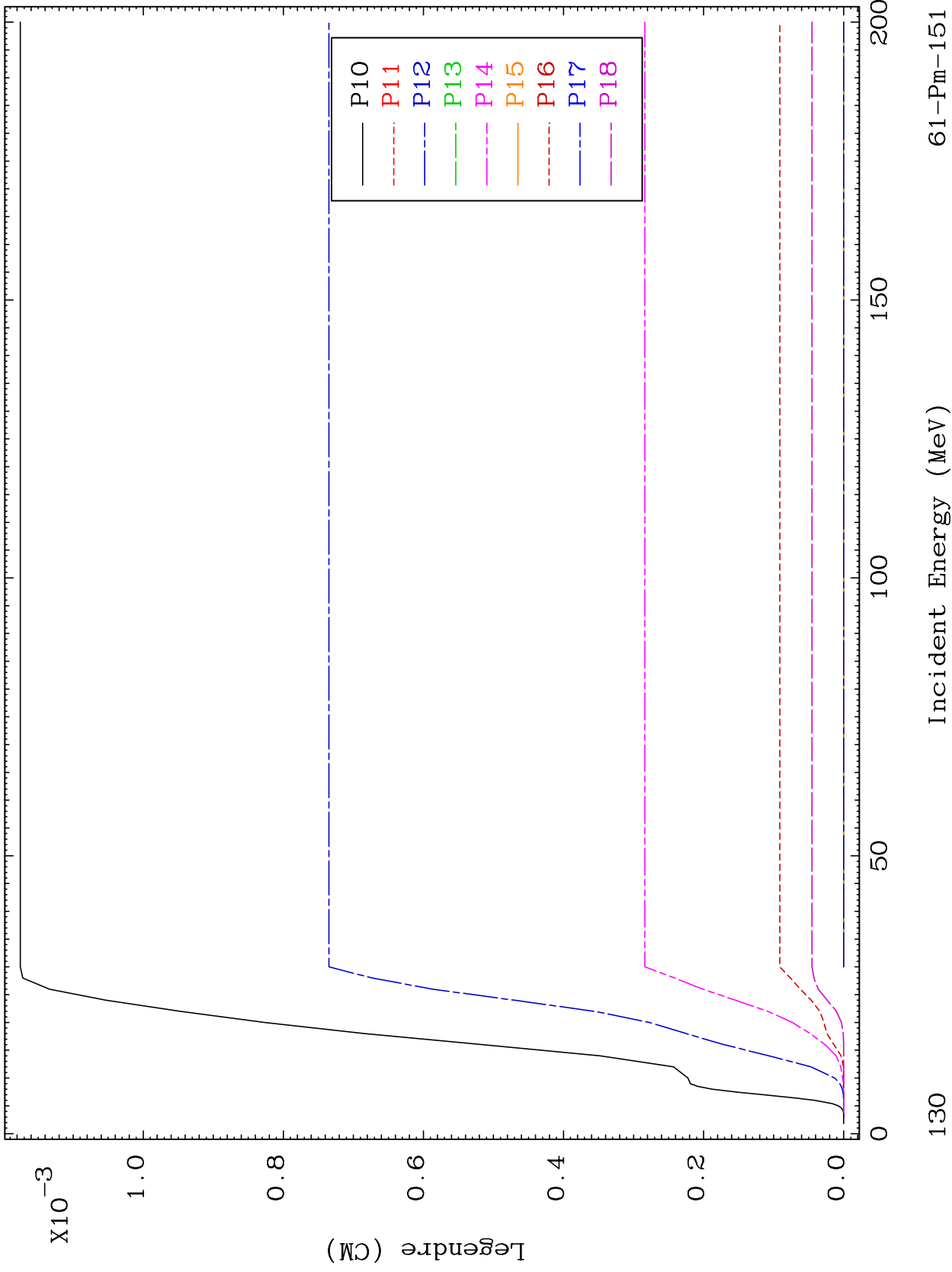
61-Pm-151



MAT 6161

MT= 80 (n,n') Level
Legendre Coefficients

61-Pm-151

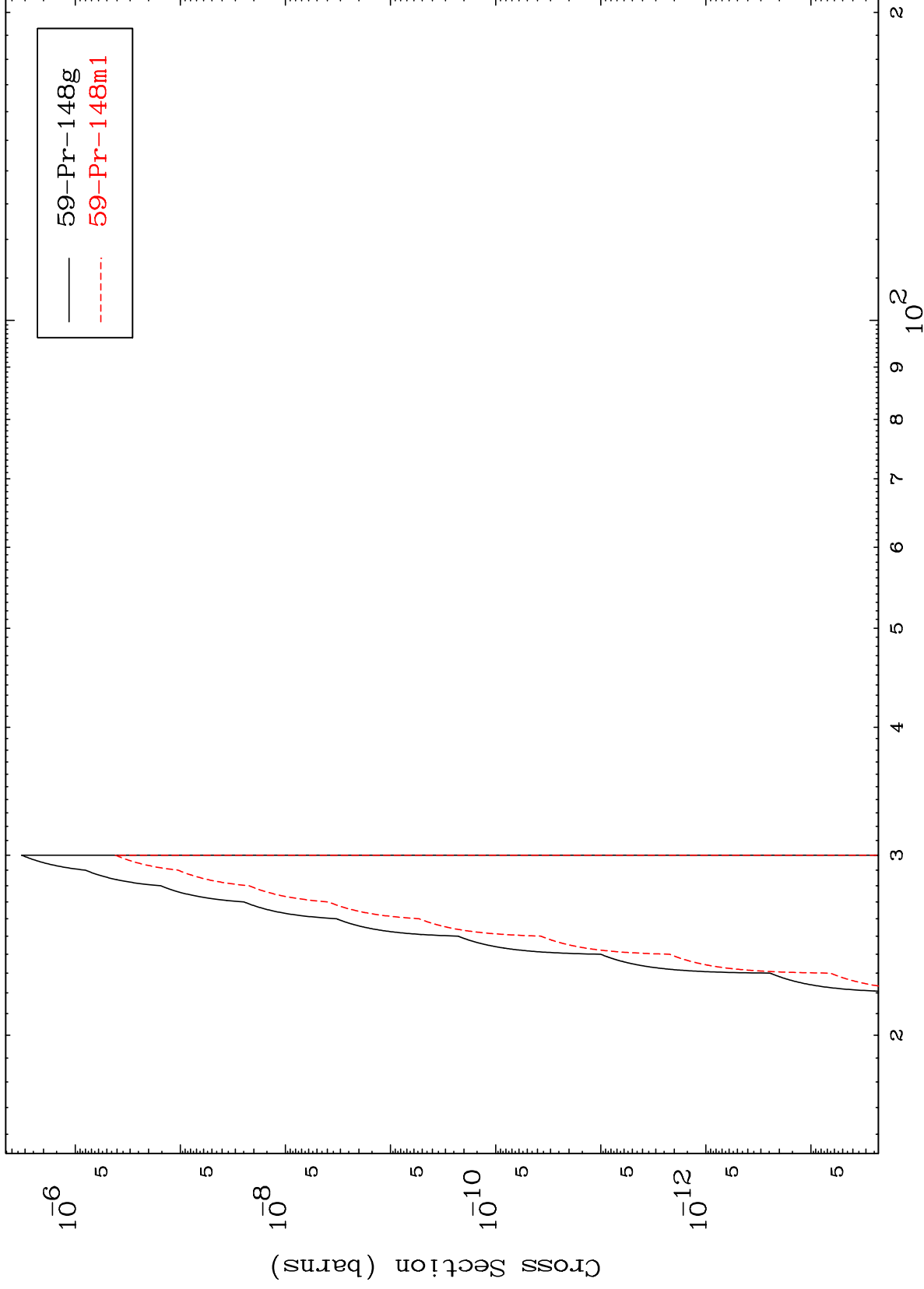


130

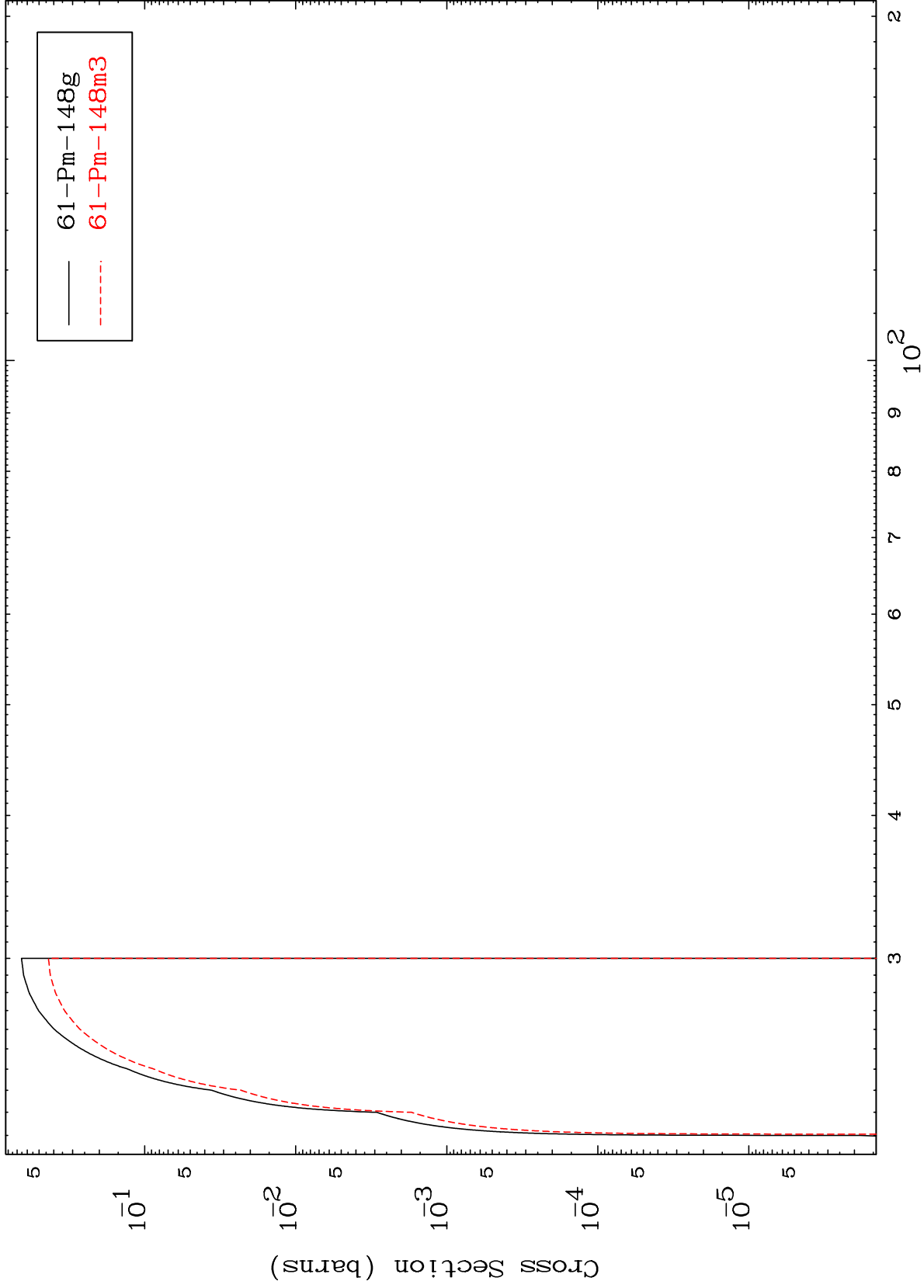
Incident Energy (MeV)

61-Pm-151

Radionuclide Production Cross Section



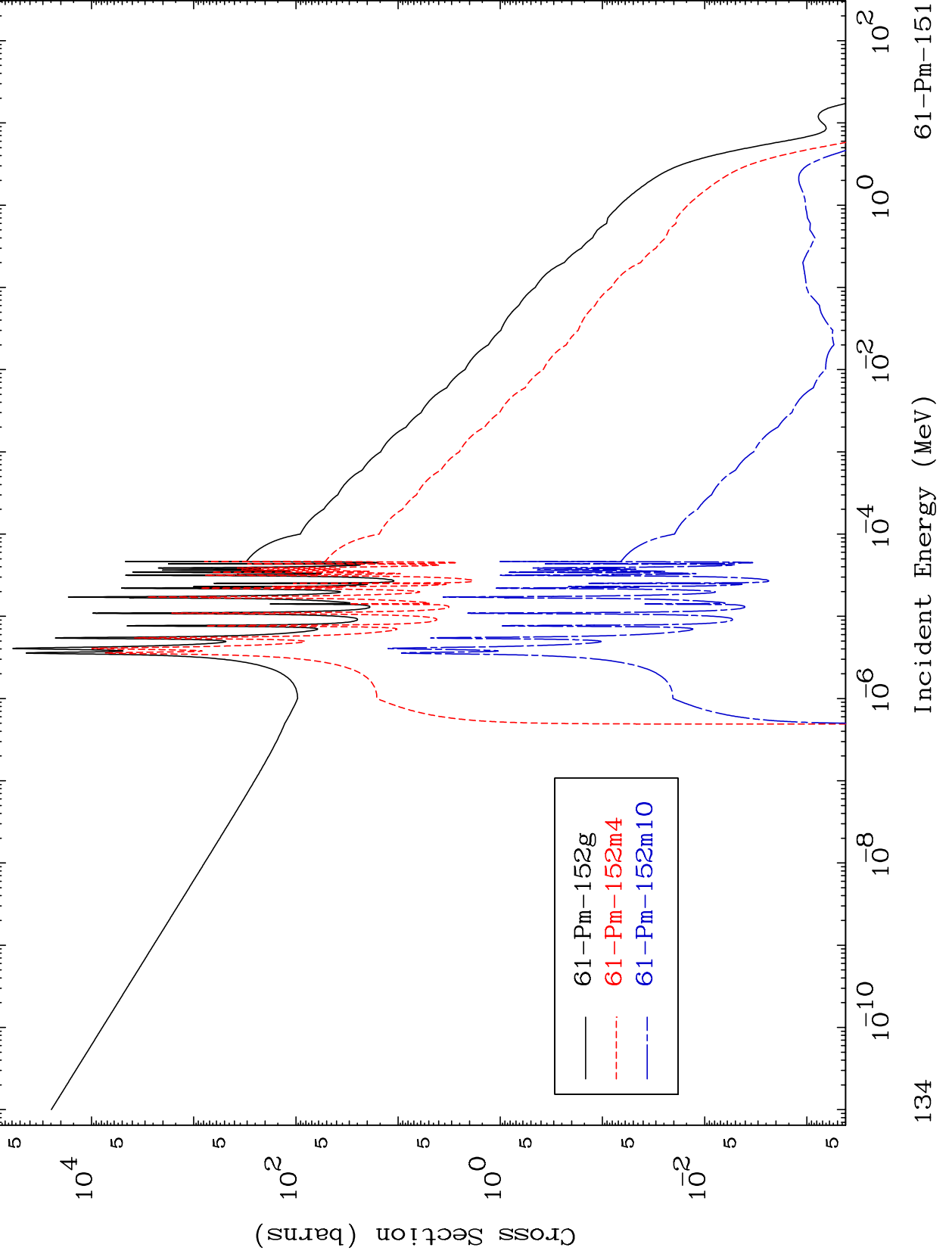
(n,4n)
Radionuclide Production Cross Section



MAT 6161

61-Pm-151

(n,γ)
Radionuclide Production Cross Section

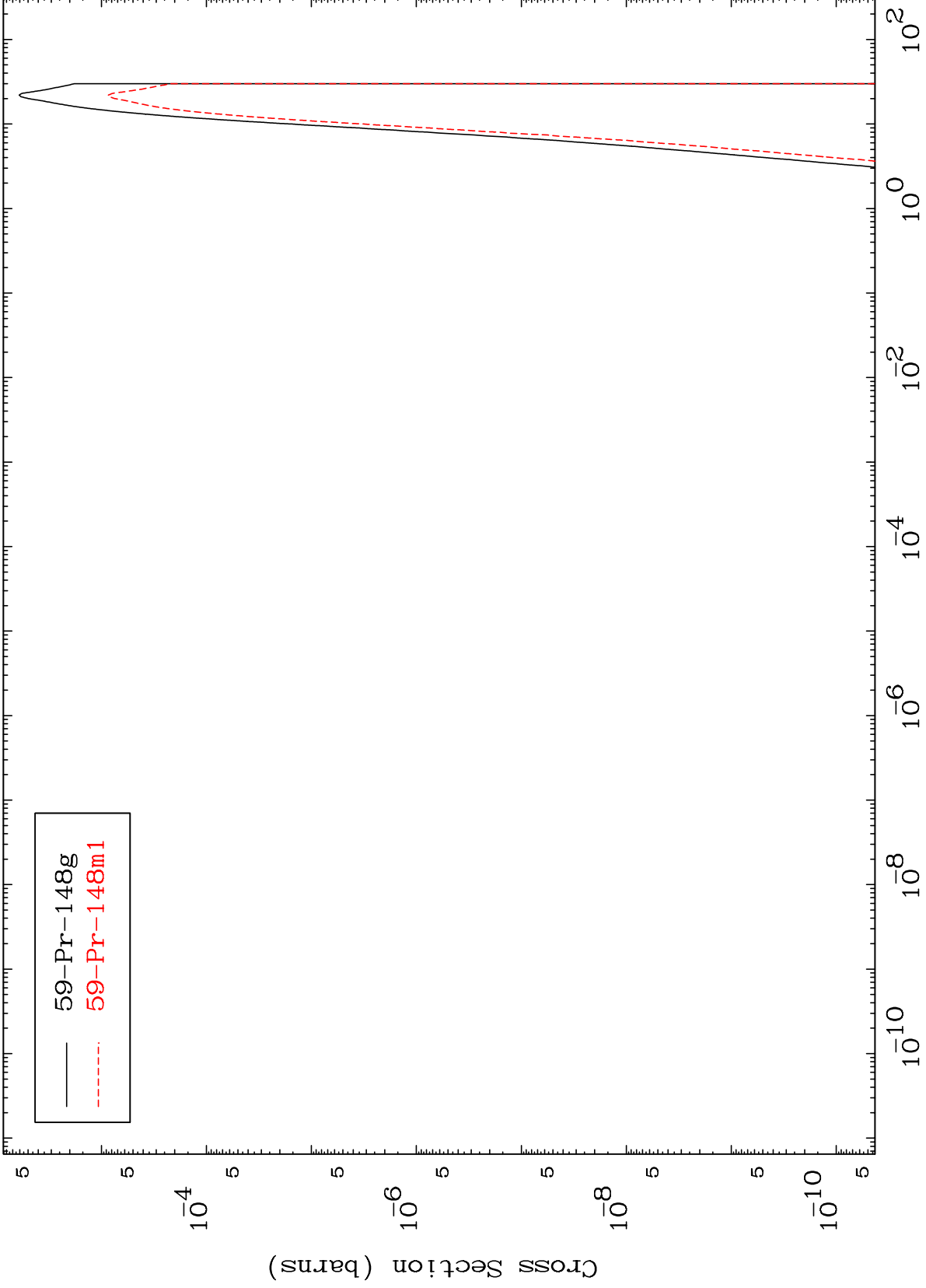


MAT 6161

(n, α)

61-Pm-151

Radionuclide Production Cross Section



59-Pr-148g
59-Pr-148m1

135

Incident Energy (MeV)

61-Pm-151