

Program EVALPLOT  
(Version 2021-1)

by

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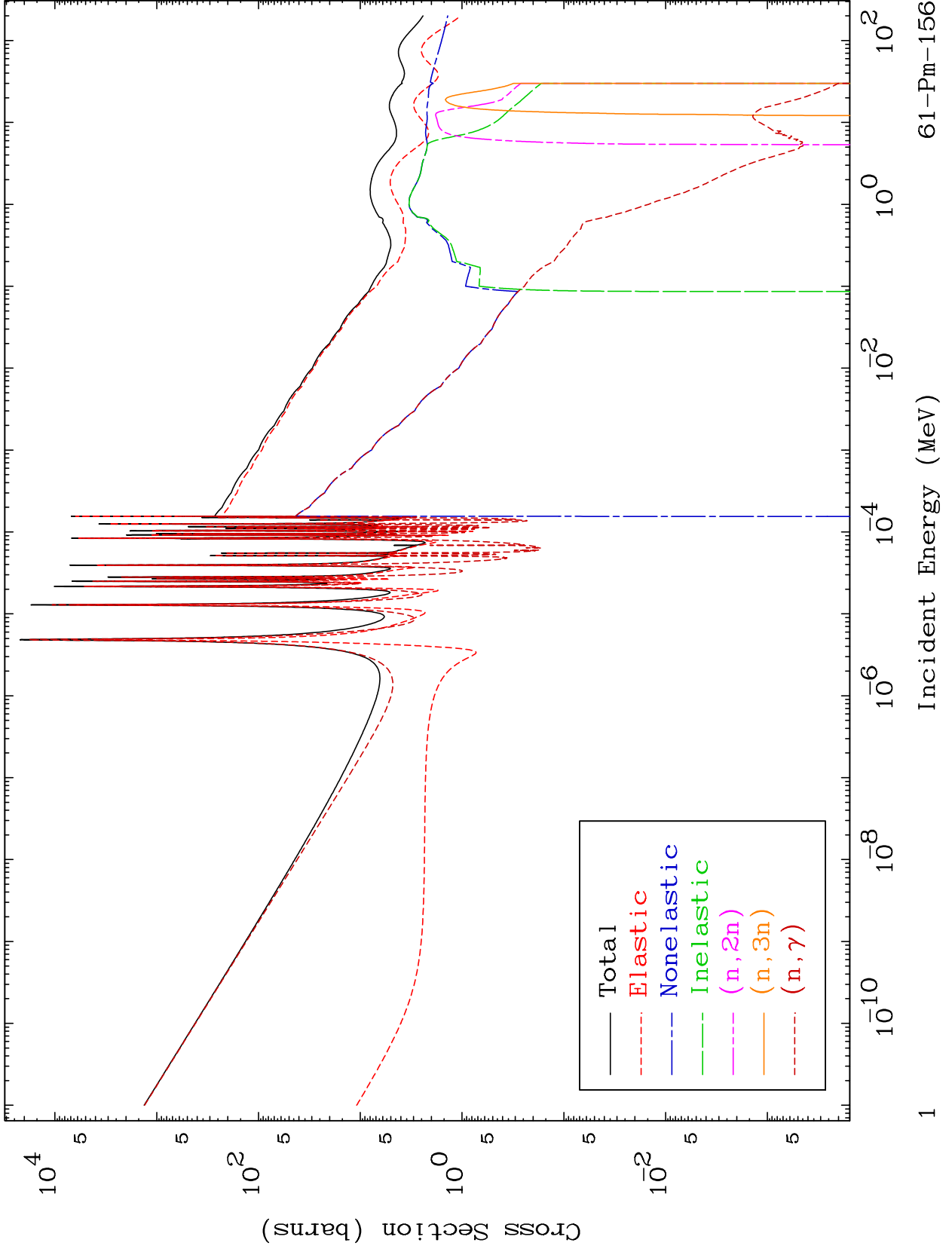
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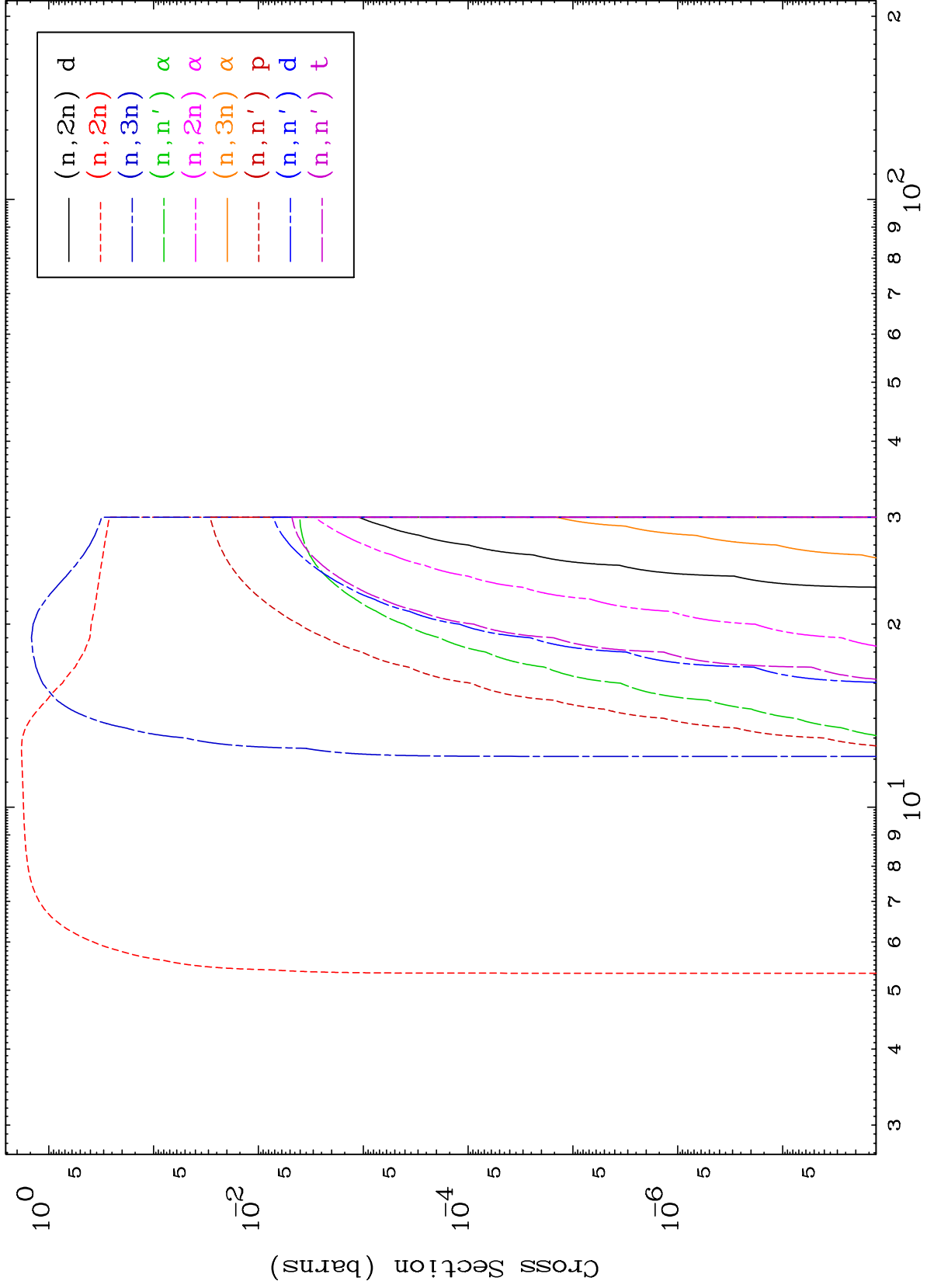
Press Mouse Button to Start

MAT 6176

Neutron Major  
293 Kelvin Cross Sections

61-Pm-156

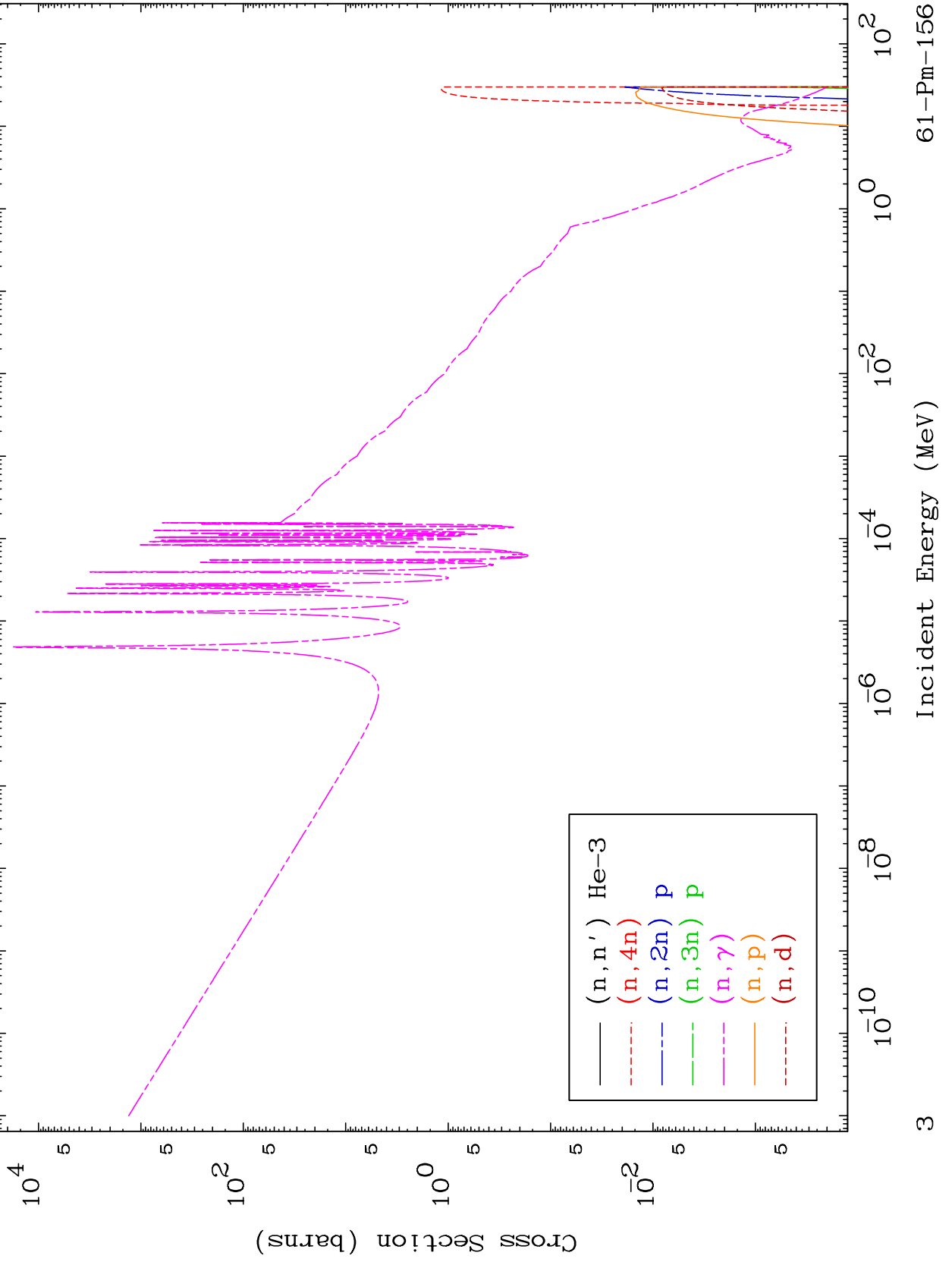




MAT 6176

Neutron Absorption  
293 Kelvin Cross Sections

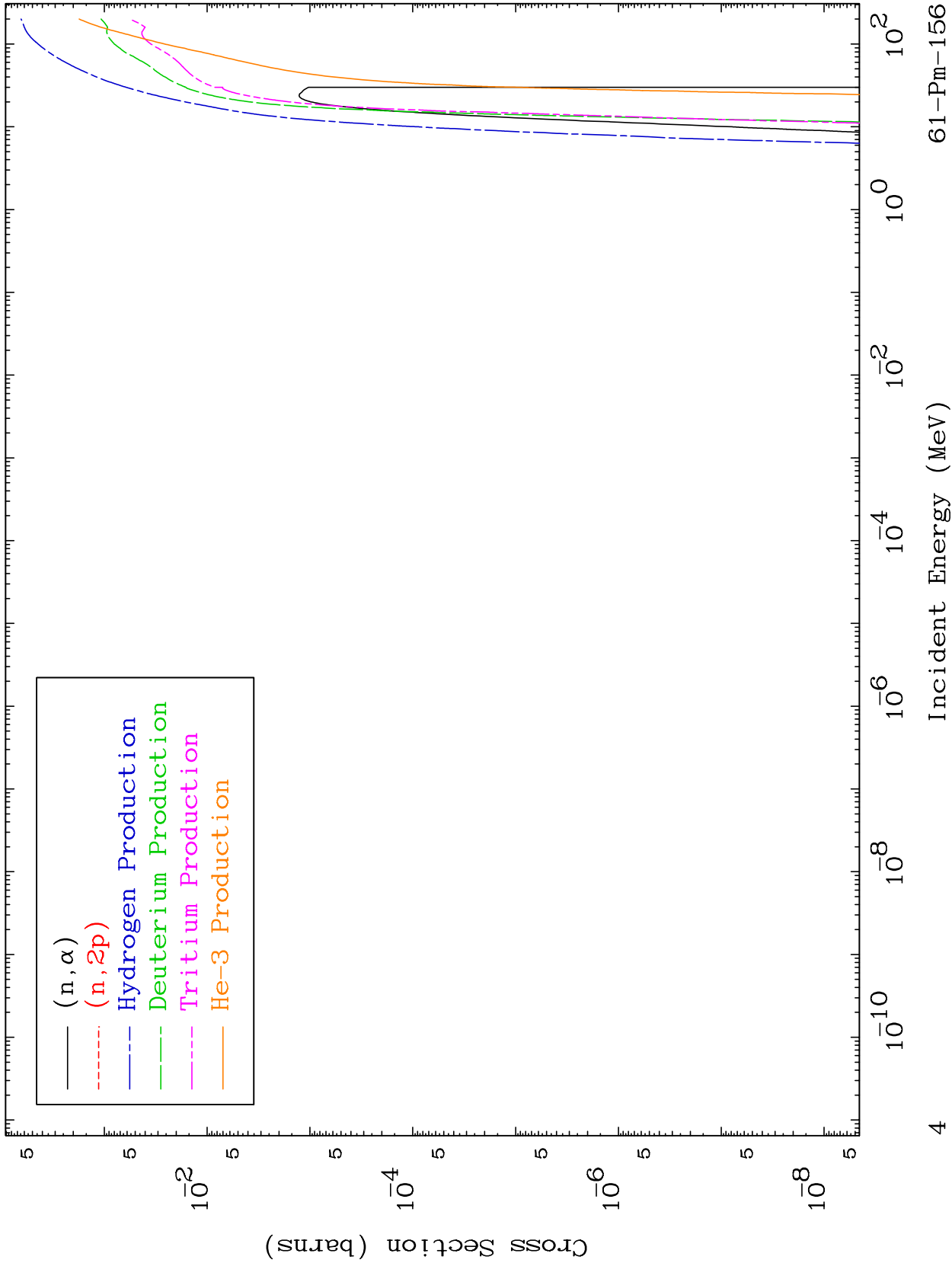
61-Pm-156

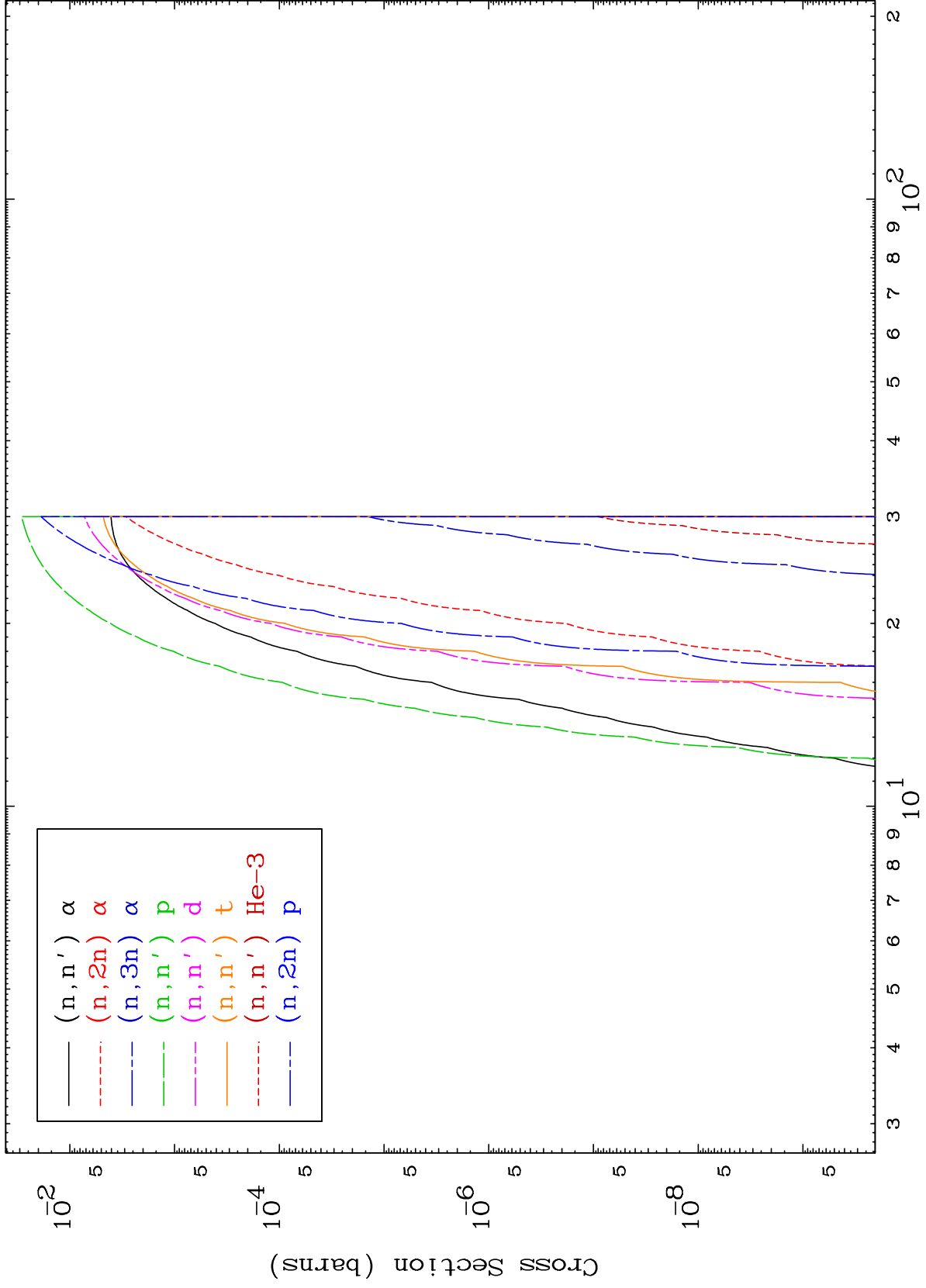


MAT 6176

Neutron Absorption  
293 Kelvin Cross Sections

61-Pm-156

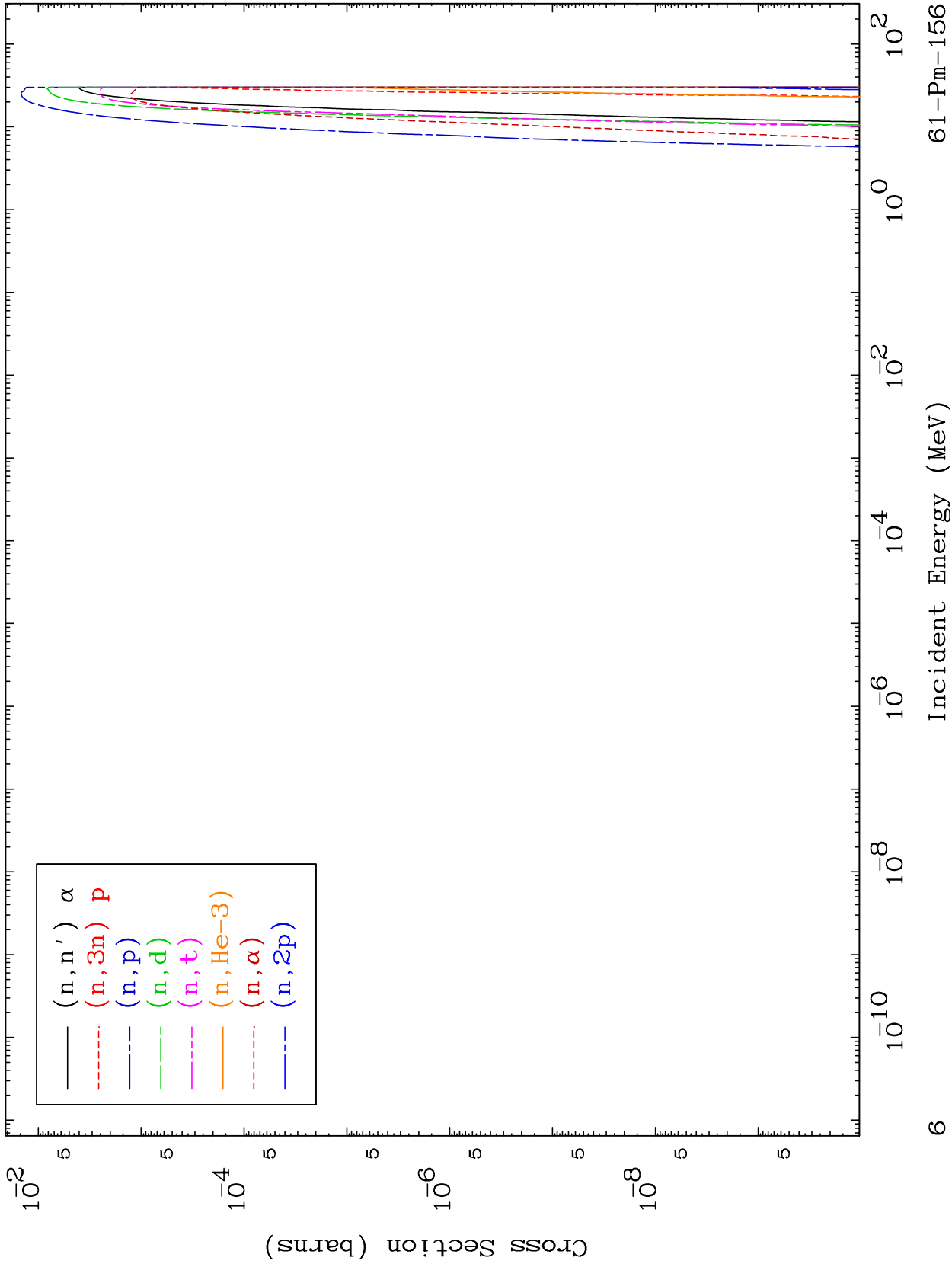




MAT 6176

Charged Particle  
293 Kelvin Cross Sections

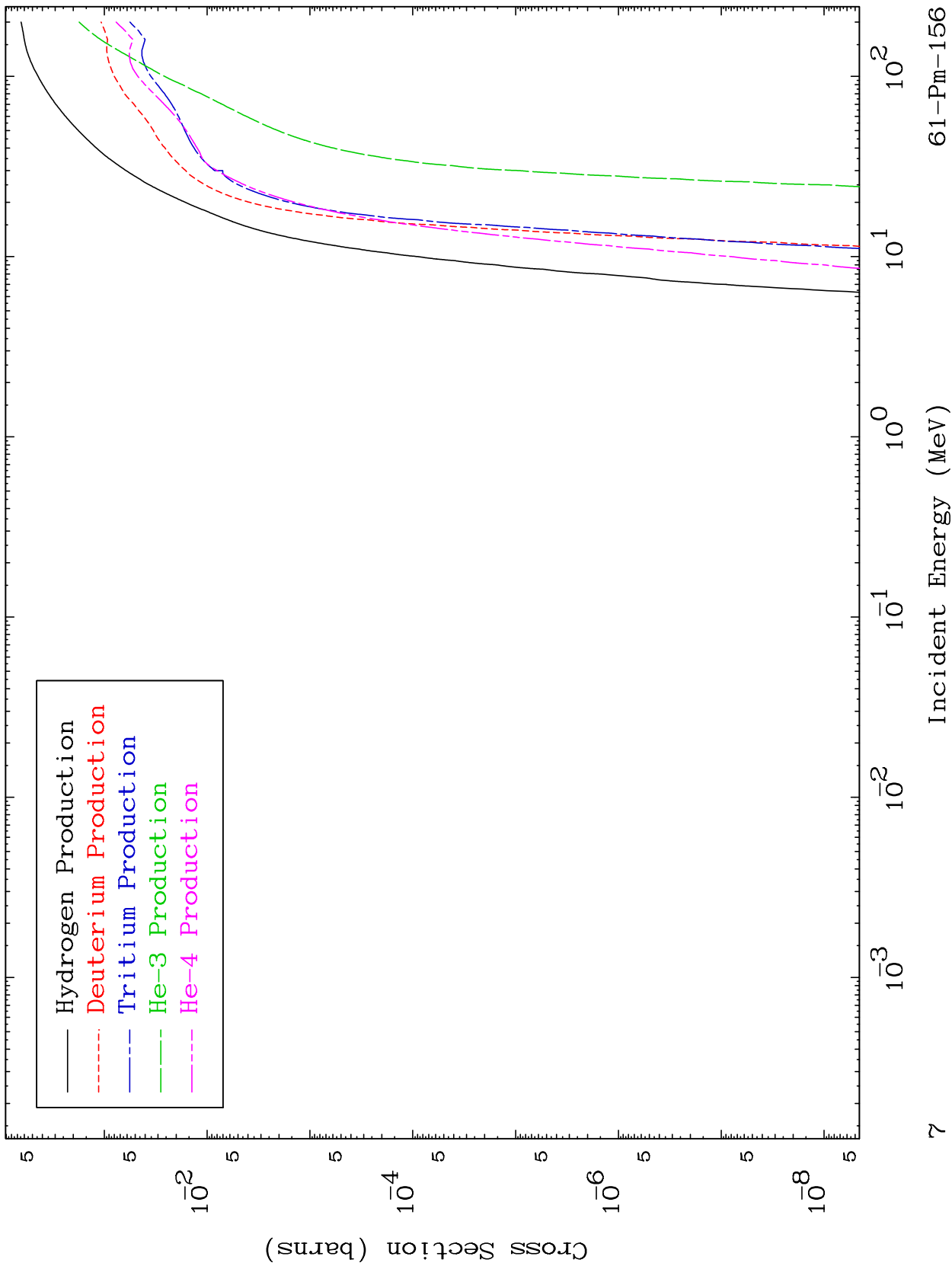
61-Pm-156



MAT 6176

Particle Production  
293 Kelvin Cross Sections

61-Pm-156

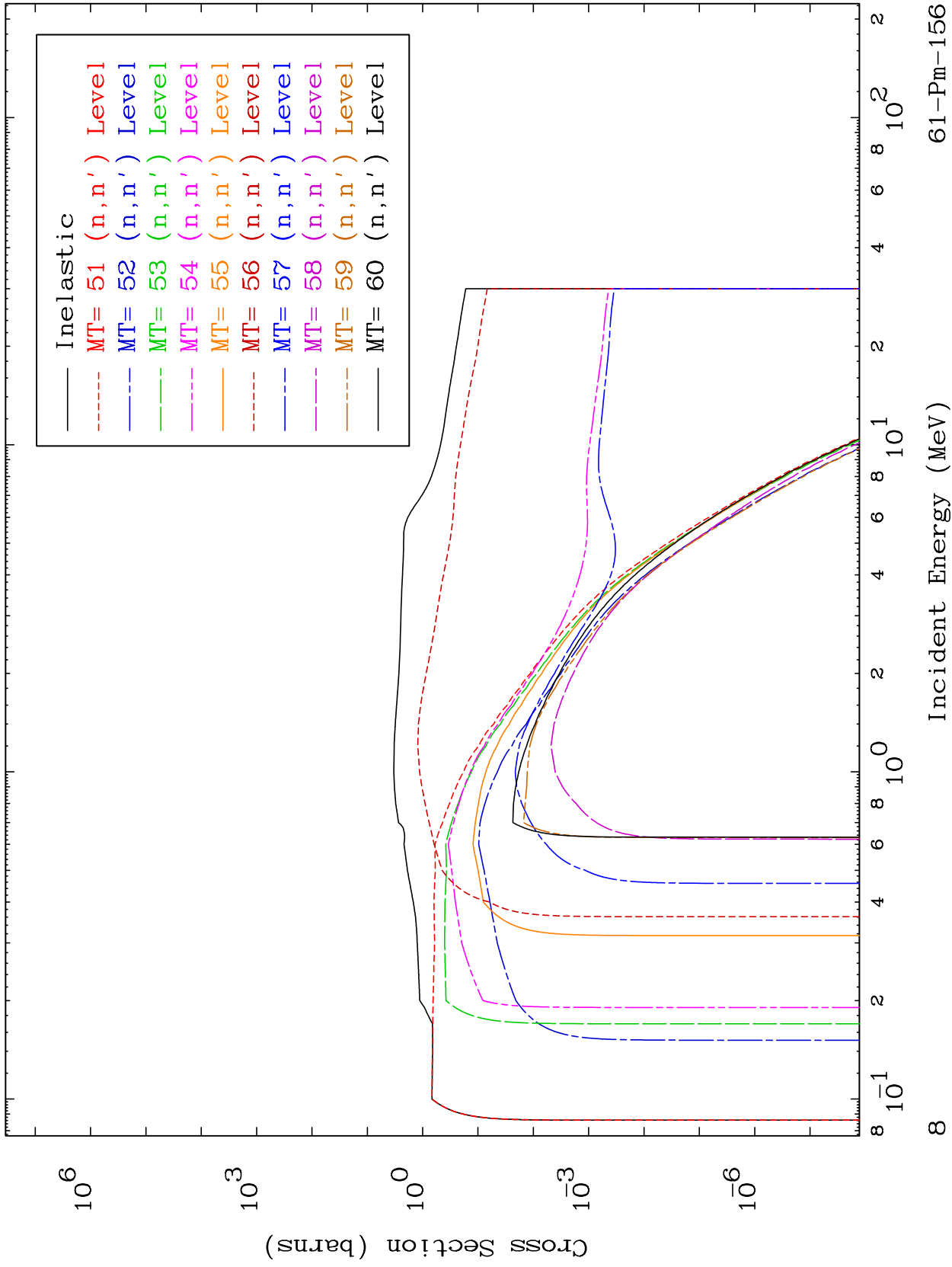


MAT 6176

(n,n') Levels

293 Kelvin Cross Sections

61-Pm-156

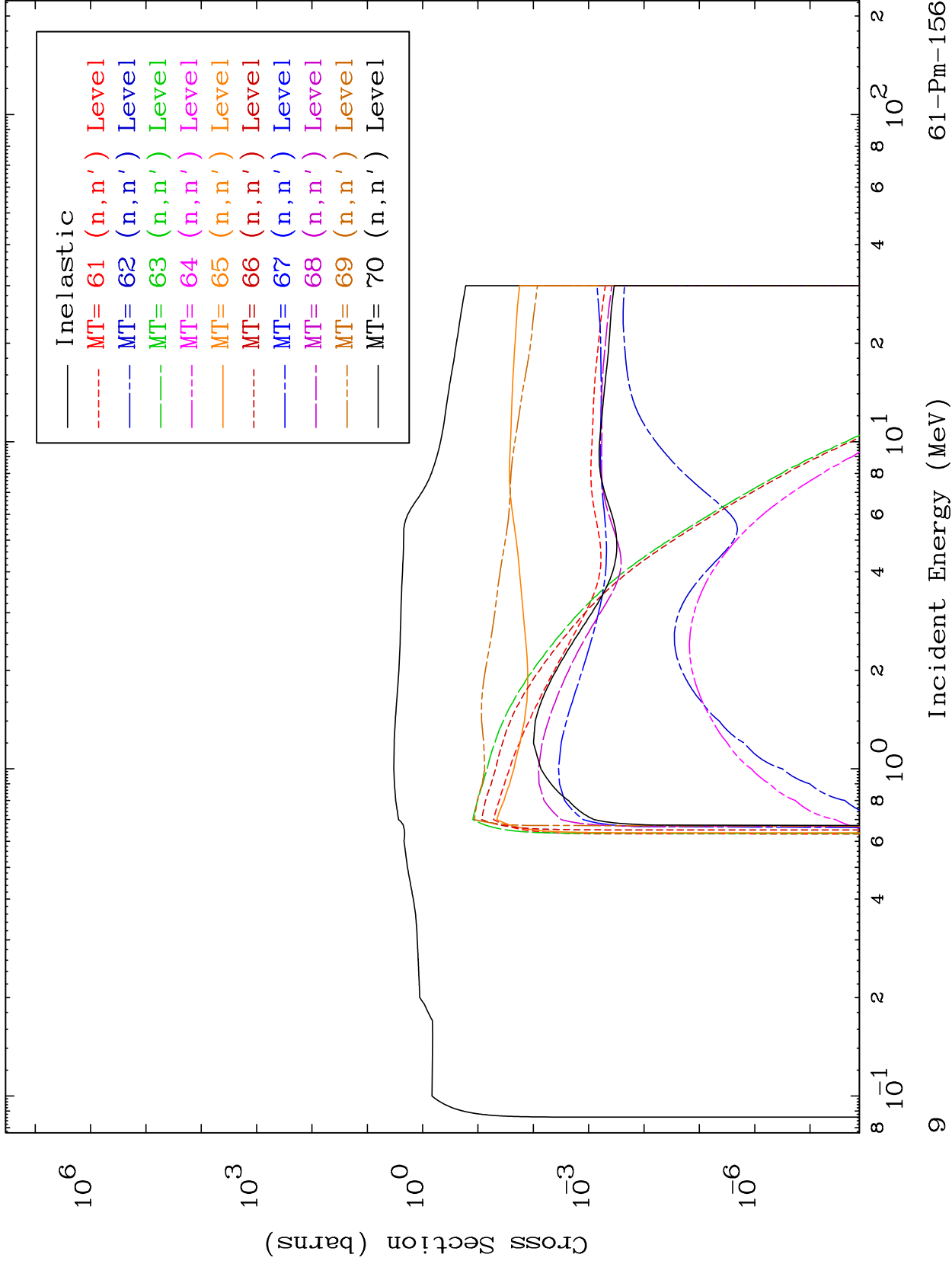


8

Incident Energy (MeV)

61-Pm-156

293 Kelvin Cross Sections

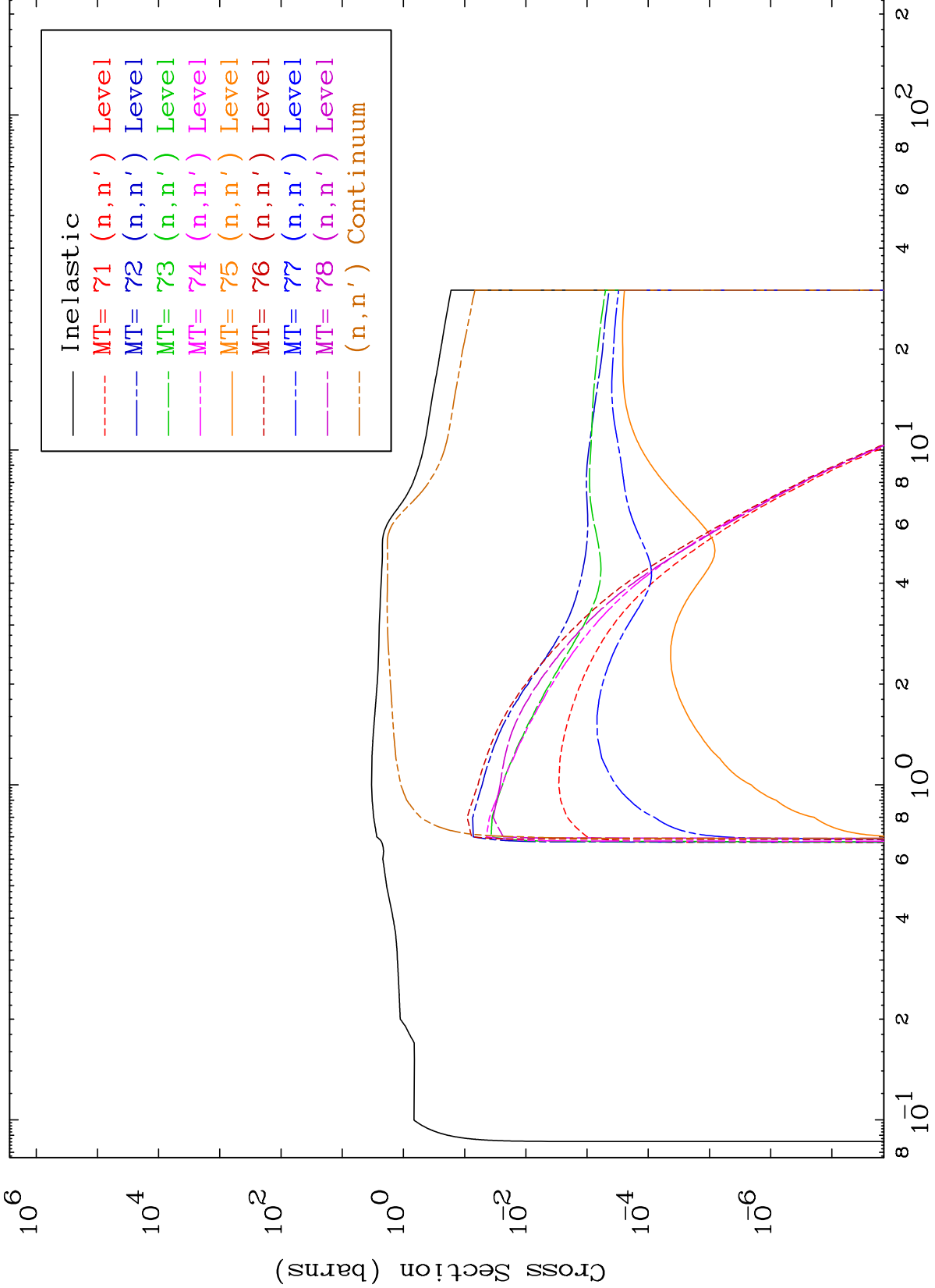


MAT 6176

(n,n') Levels

61-Pm-156

293 Kelvin Cross Sections



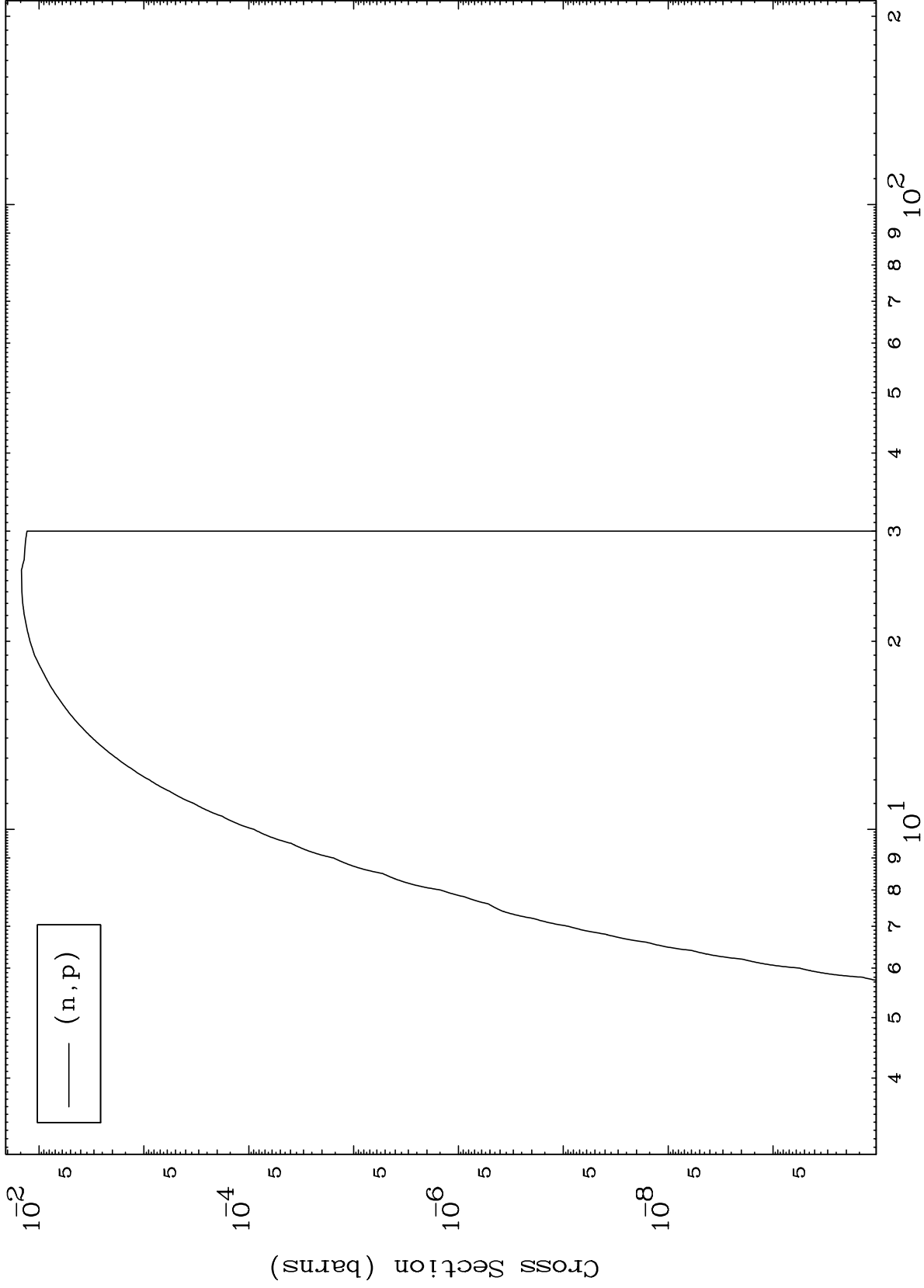
Incident Energy (MeV)

61-Pm-156

MAT 6176

(n,p) Levels  
293 Kelvin Cross Sections

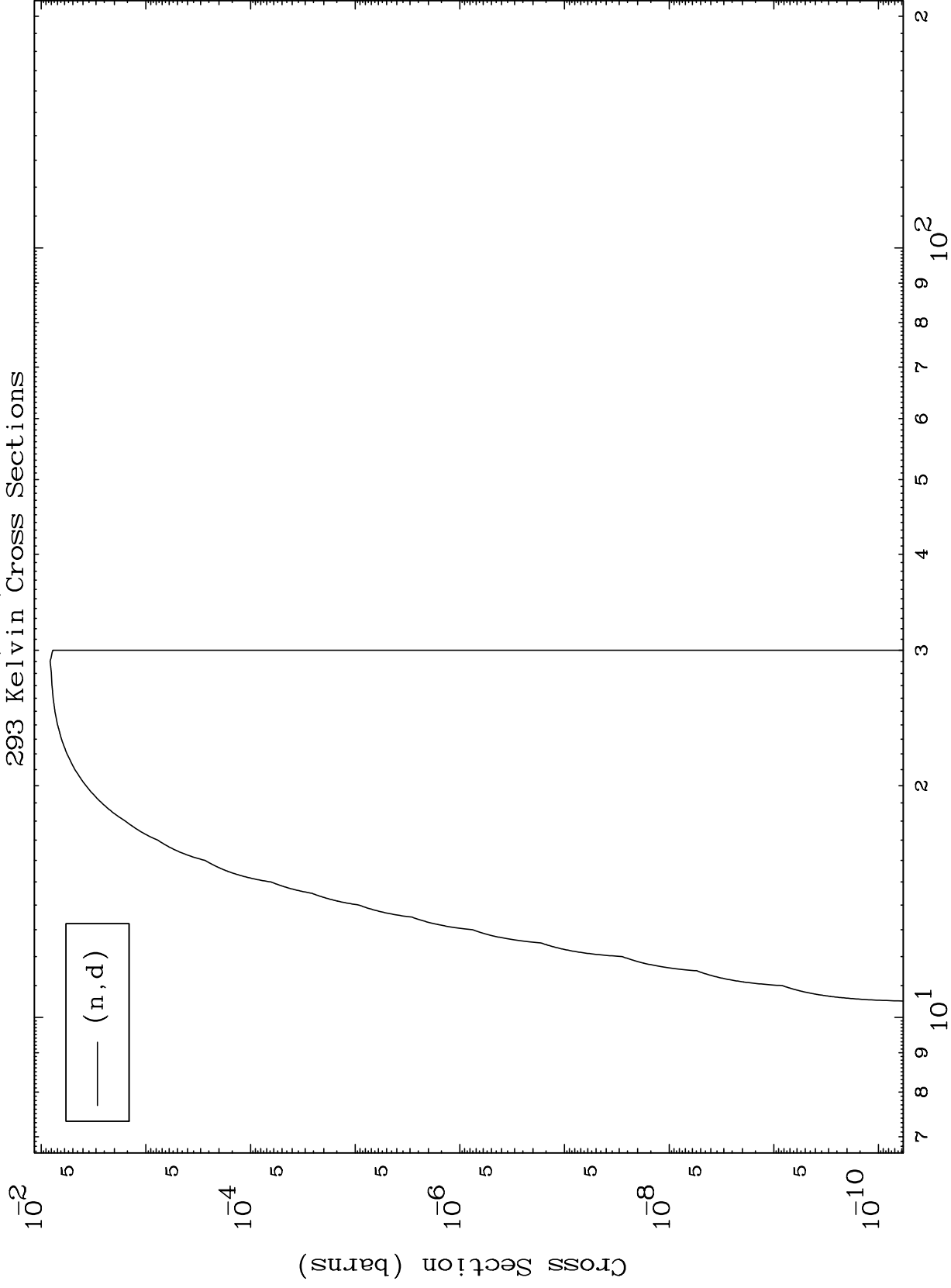
61-Pm-156



MAT 6176

(n,d) Levels  
293 Kelvin Cross Sections

61-Pm-156



12

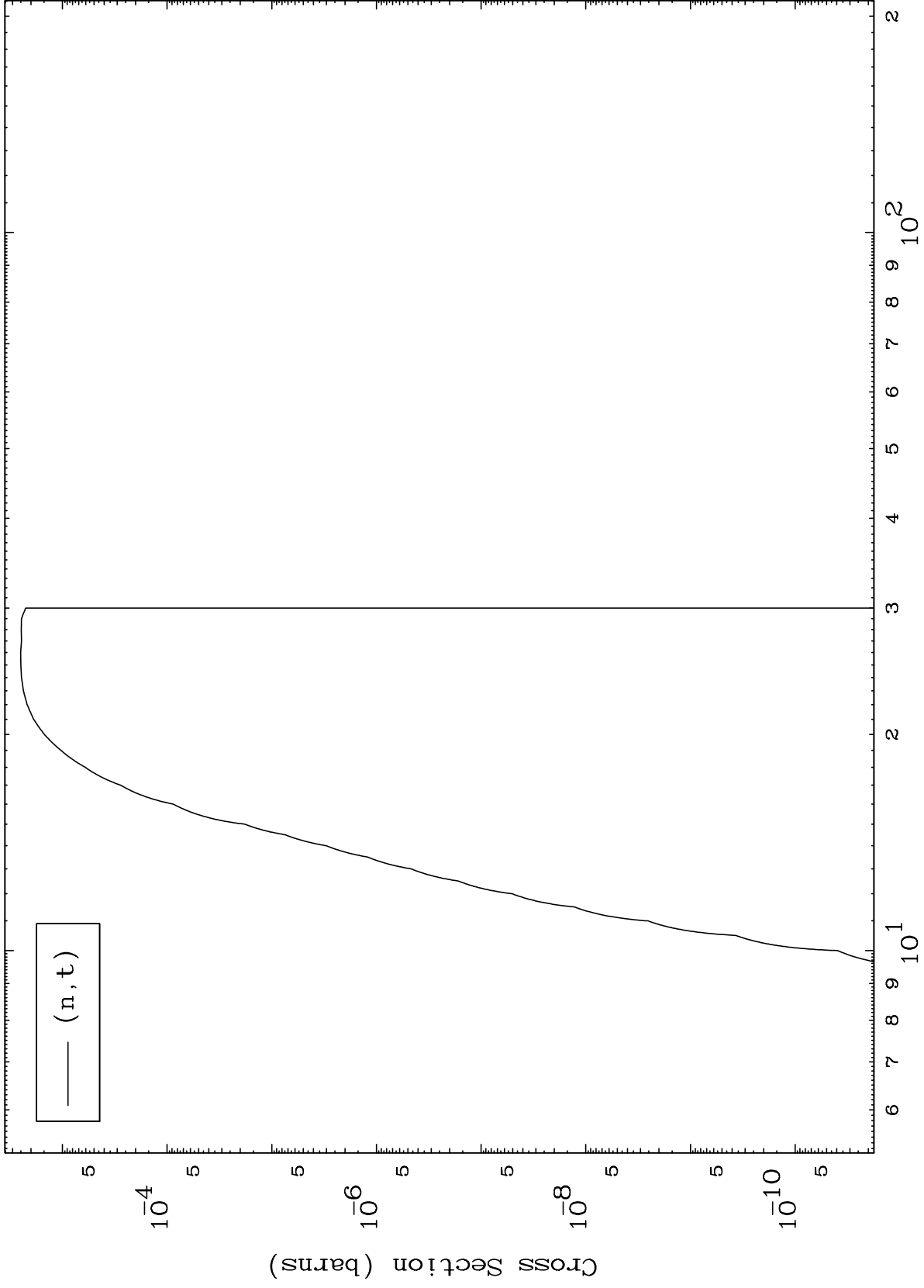
Incident Energy (MeV)

61-Pm-156

MAT 6176

(n,t) Levels  
293 Kelvin Cross Sections

61-Pm-156



13

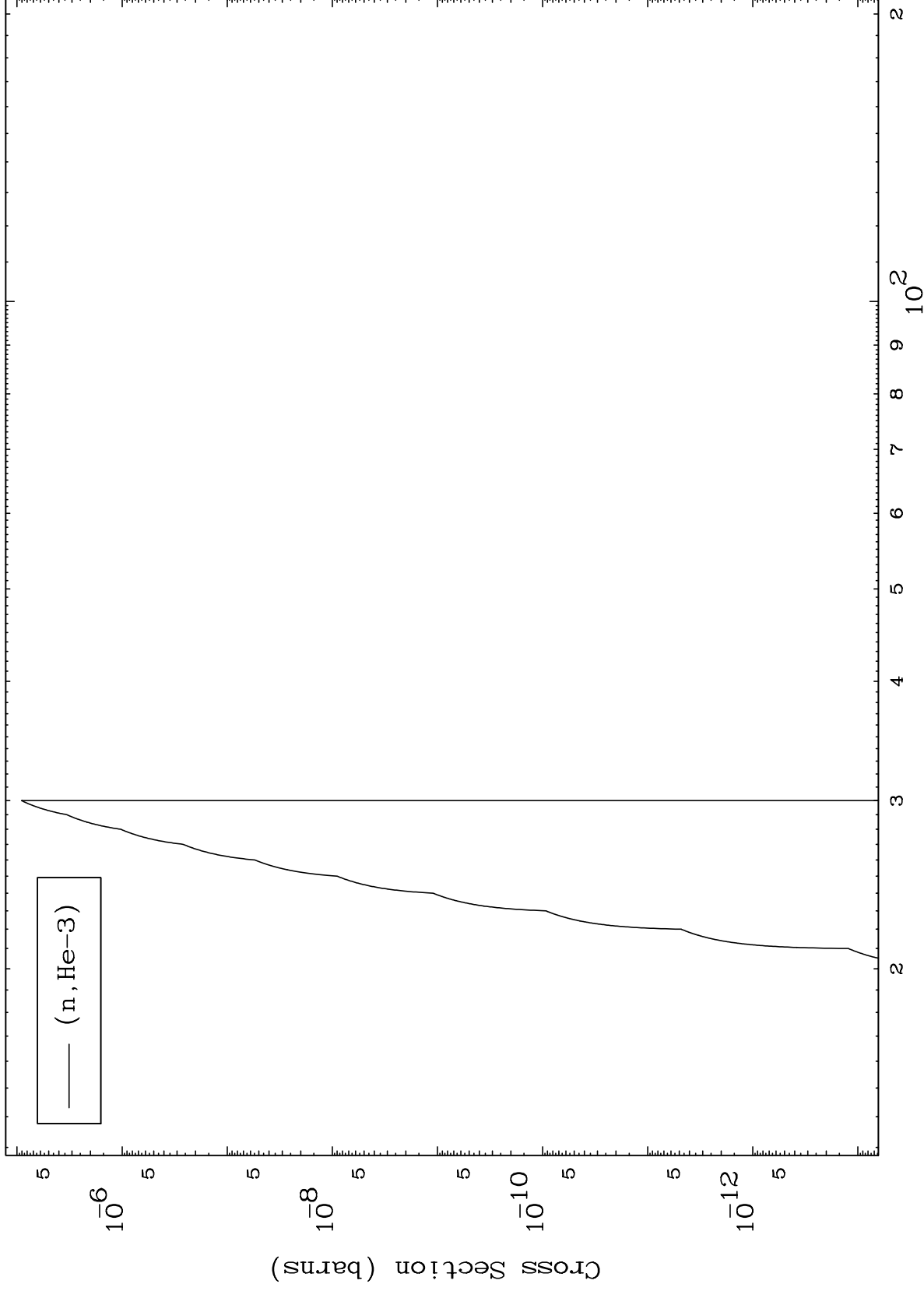
Incident Energy (MeV)

61-Pm-156

MAT 6176

(n,He3) Levels  
293 Kelvin Cross Sections

61-Pm-156



14

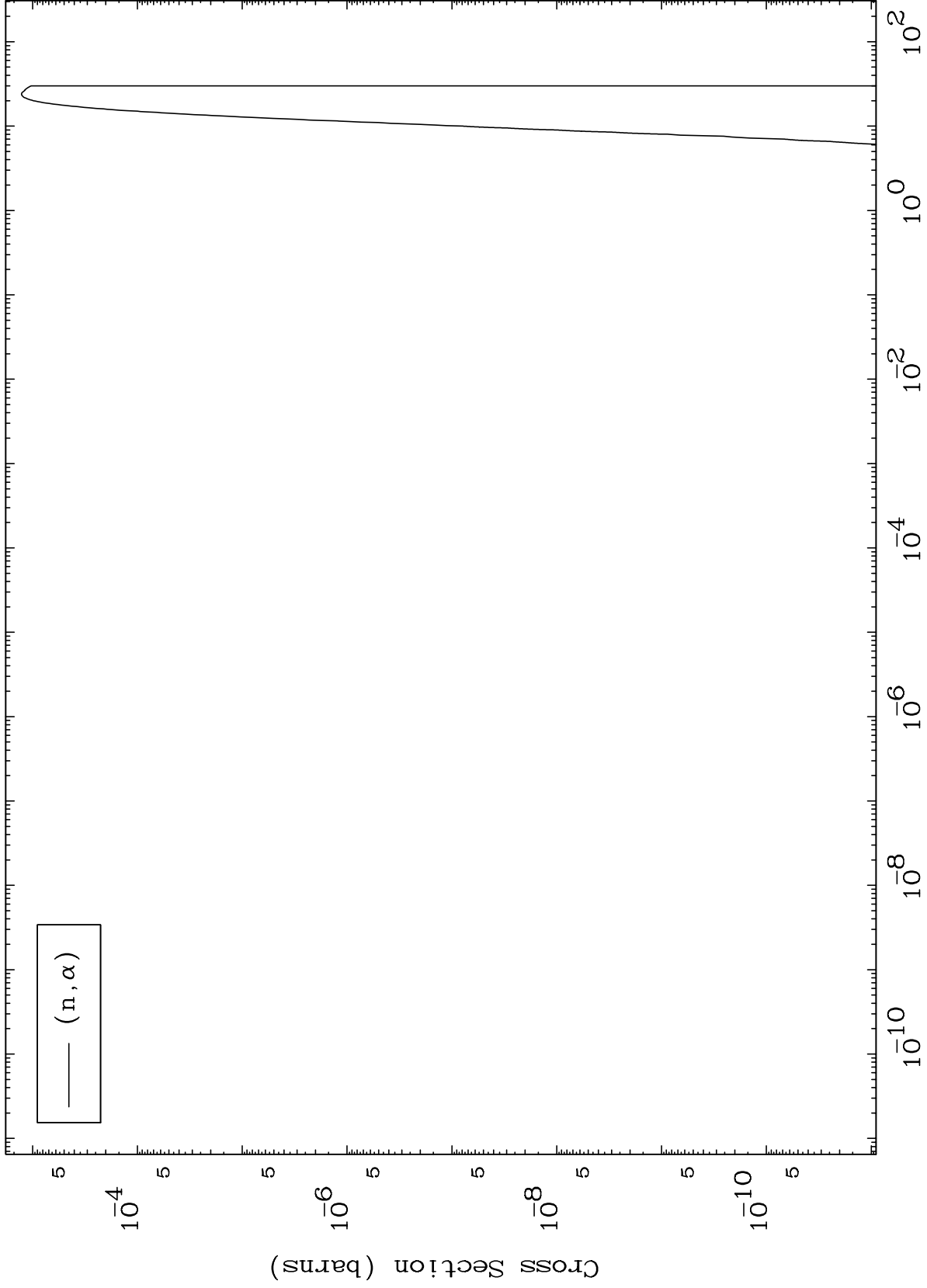
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

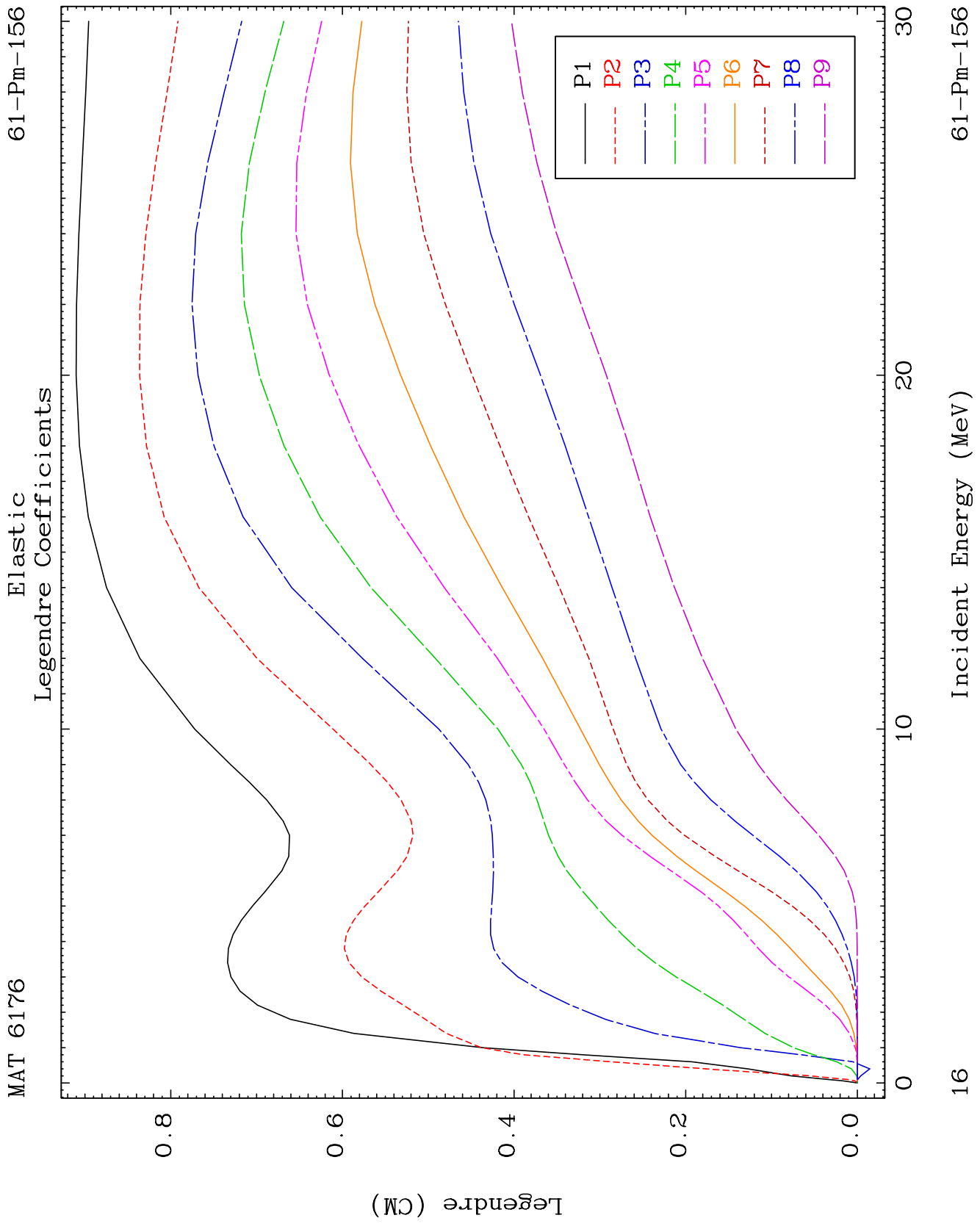
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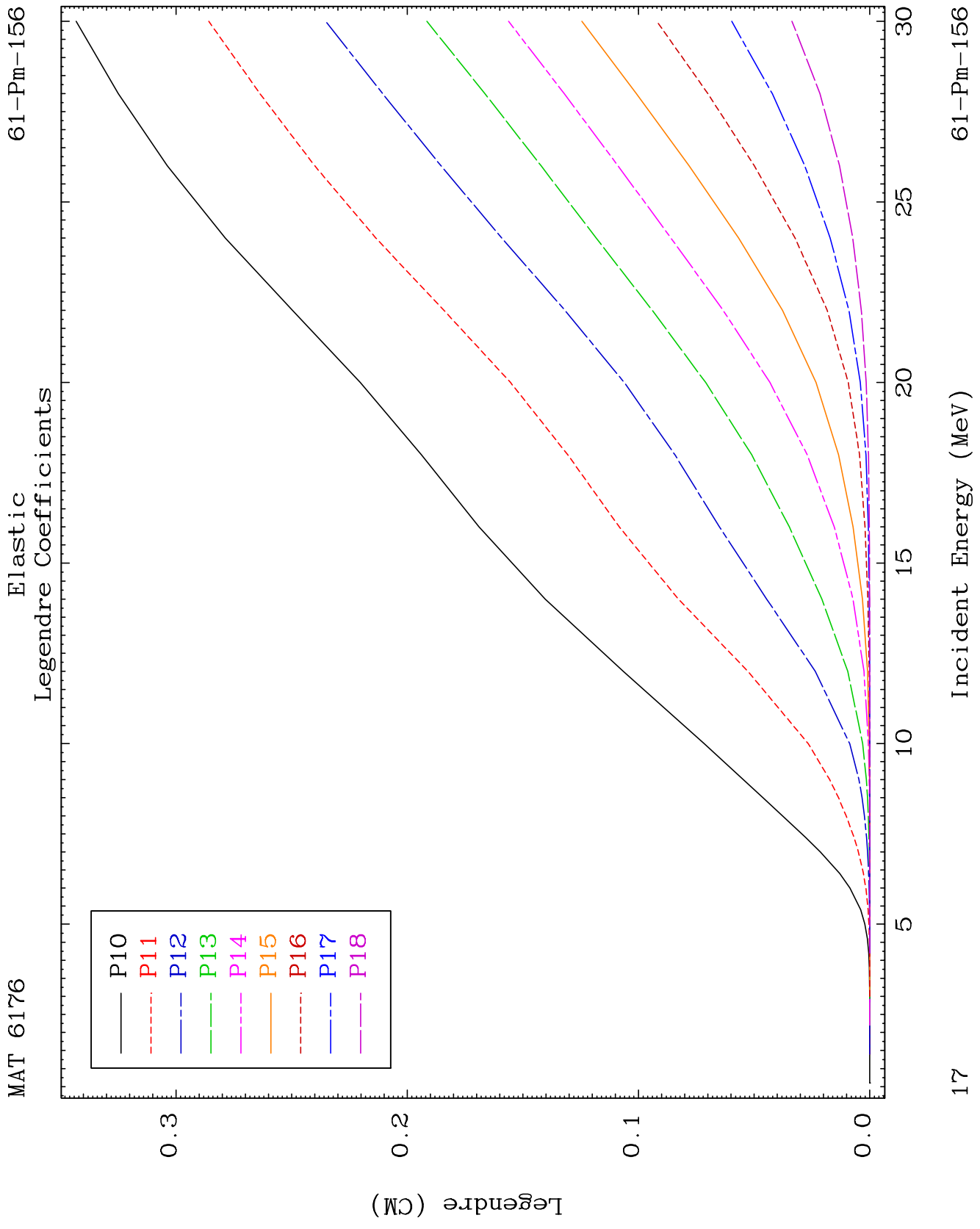


15

Incident Energy (MeV)

61-Pm-156

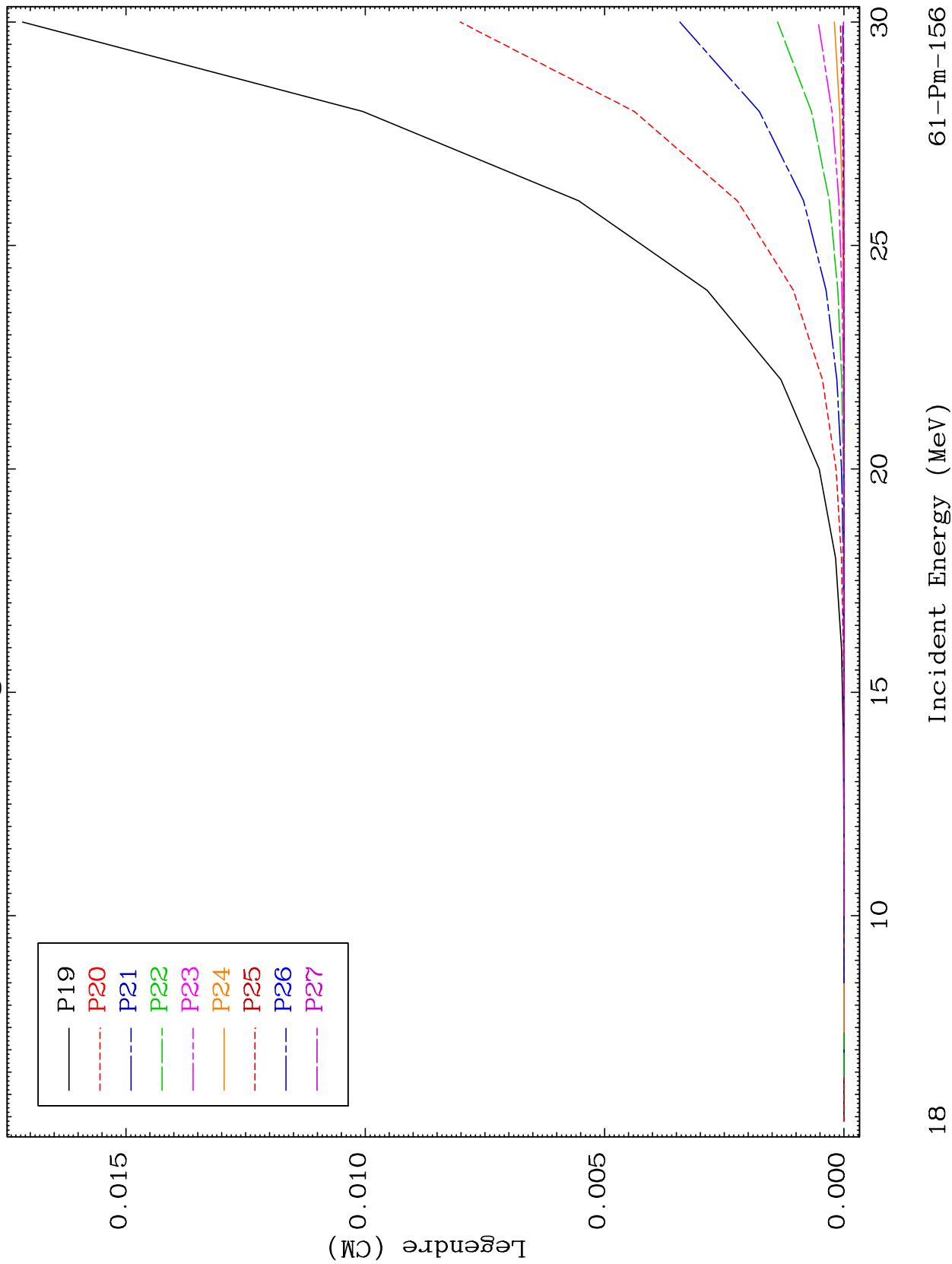




MAT 6176

### Elastic Legendre Coefficients

61-Pm-156



18

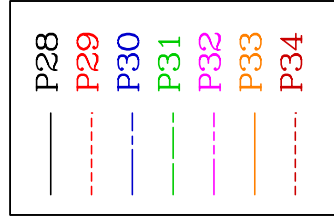
Incident Energy (MeV)

61-Pm-156

MAT 6176

Elastic Legendre Coefficients

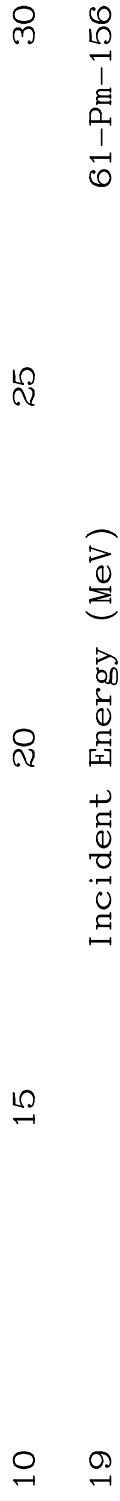
61-Pm-156



$\times 10^{-6}$   
2.5  
2.0

Legendre (CM)

1.5  
1.0  
0.5  
0.0



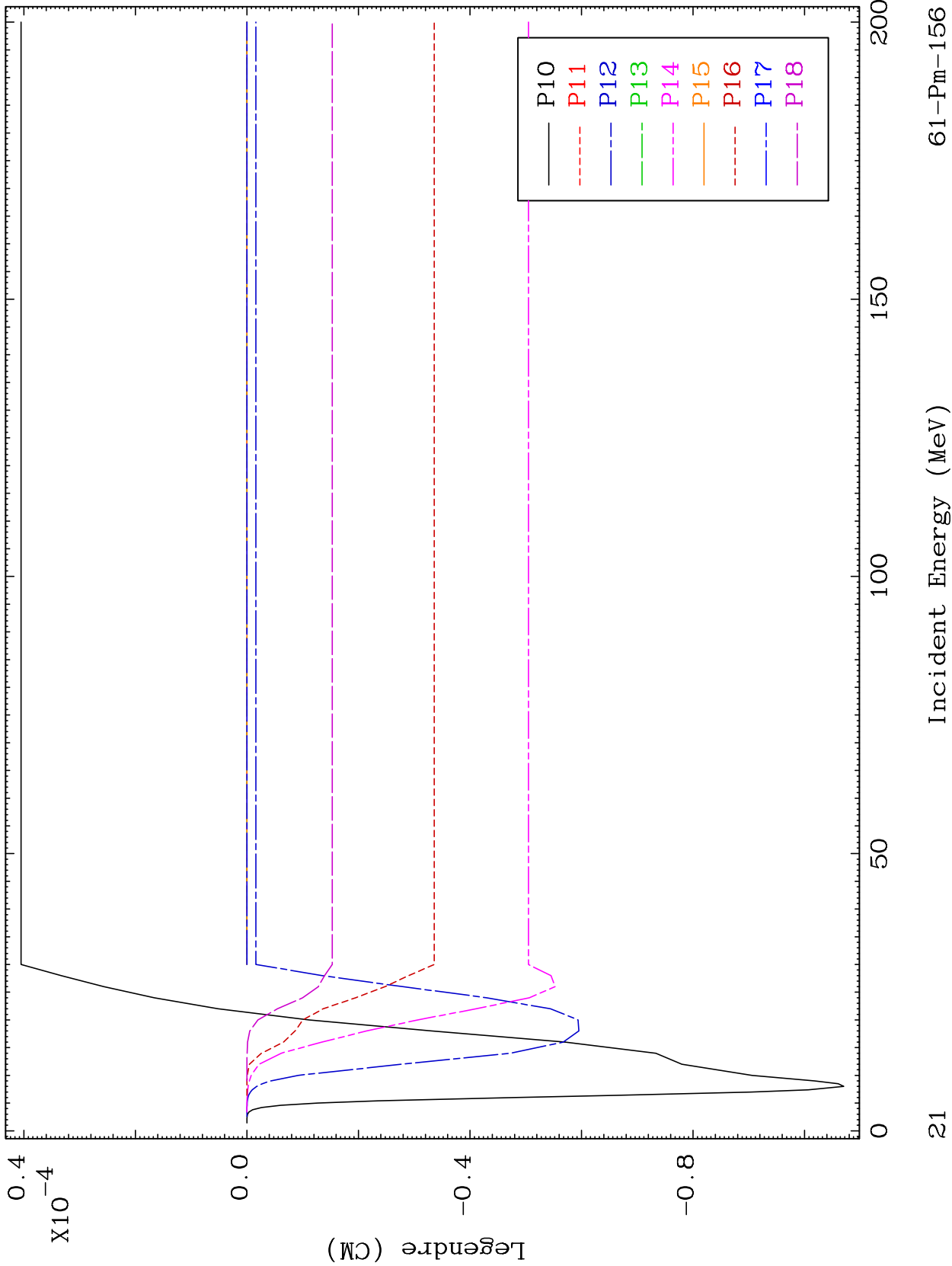
19



MAT 6176

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

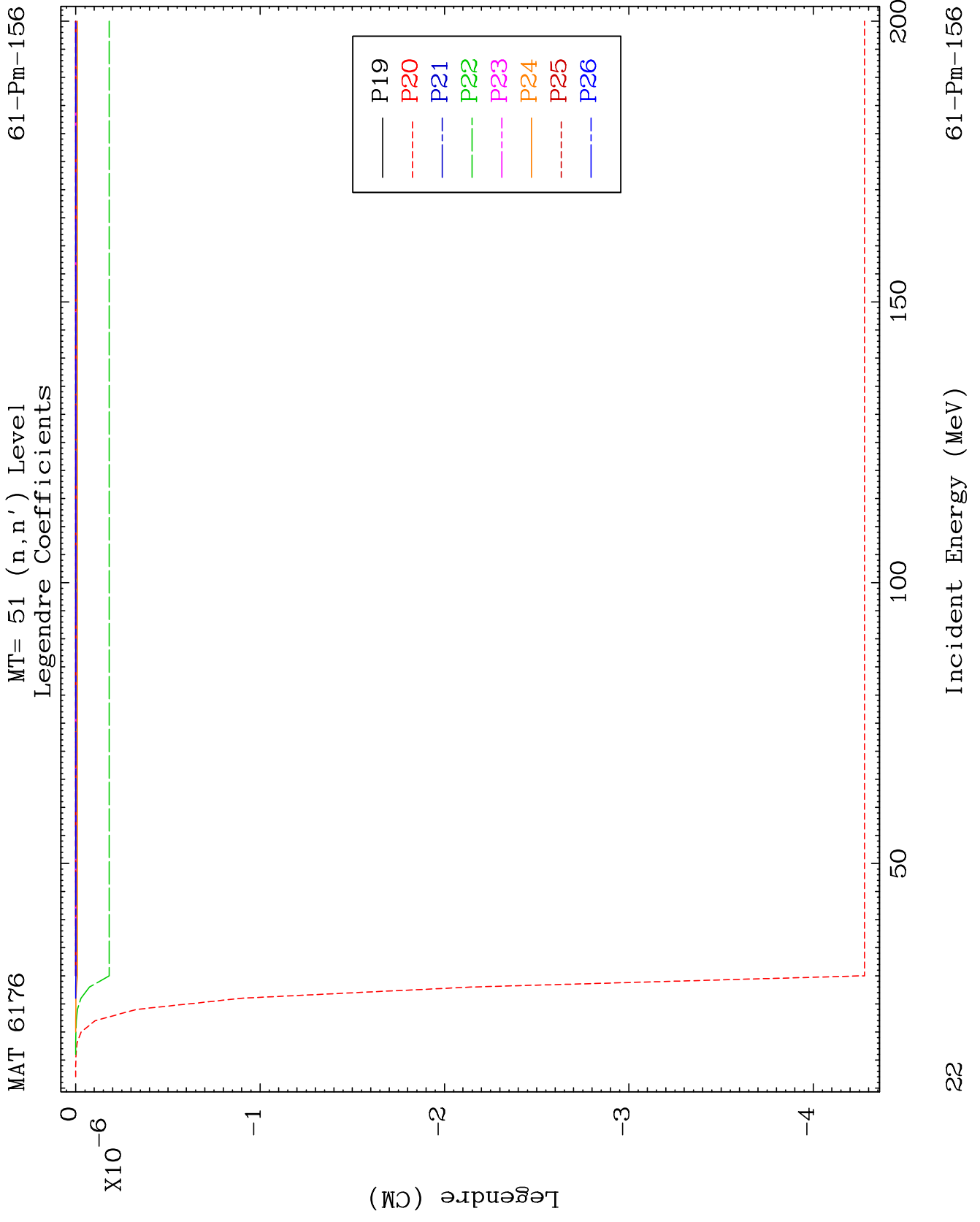
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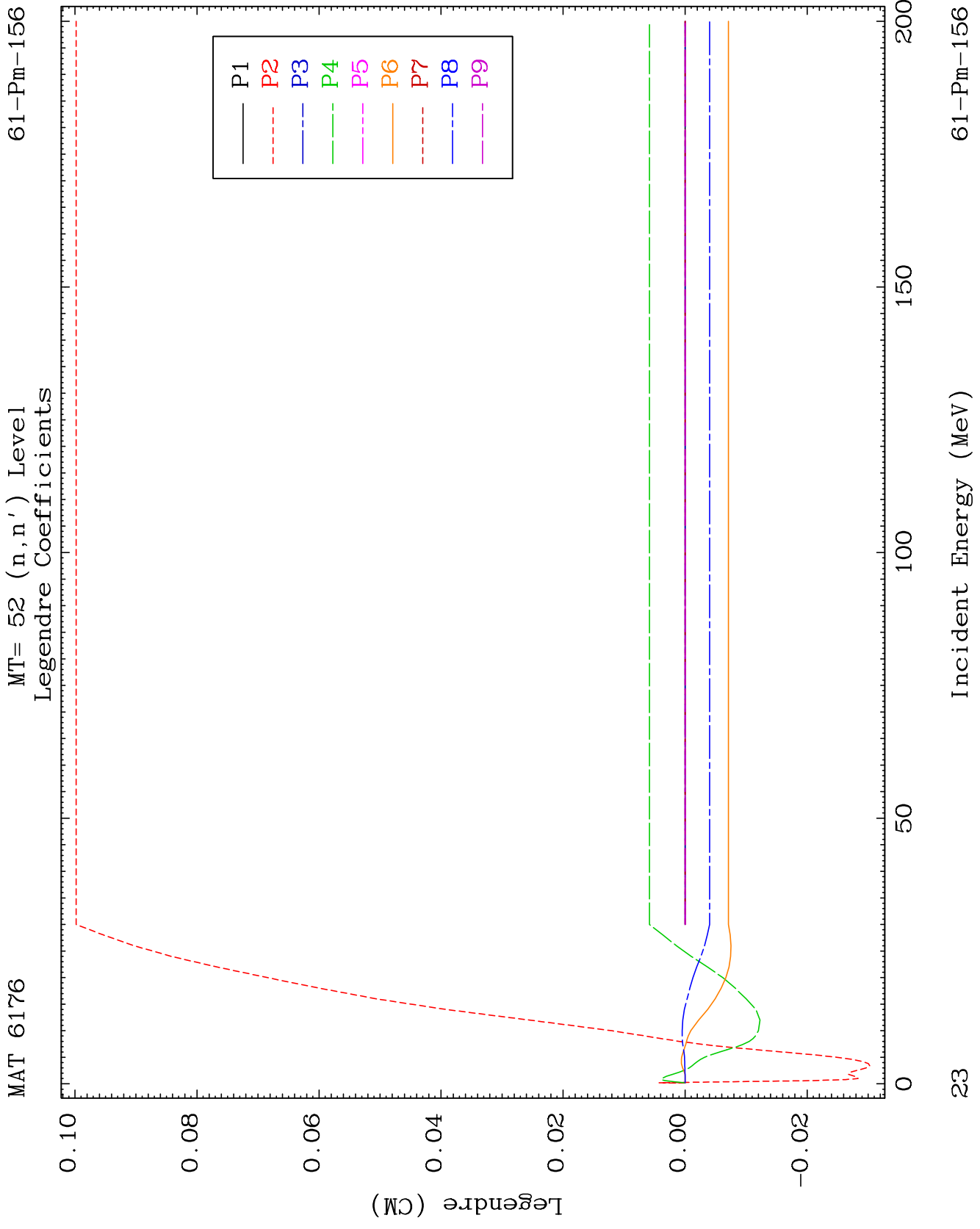


21

Incident Energy (MeV)

61-Pm-156

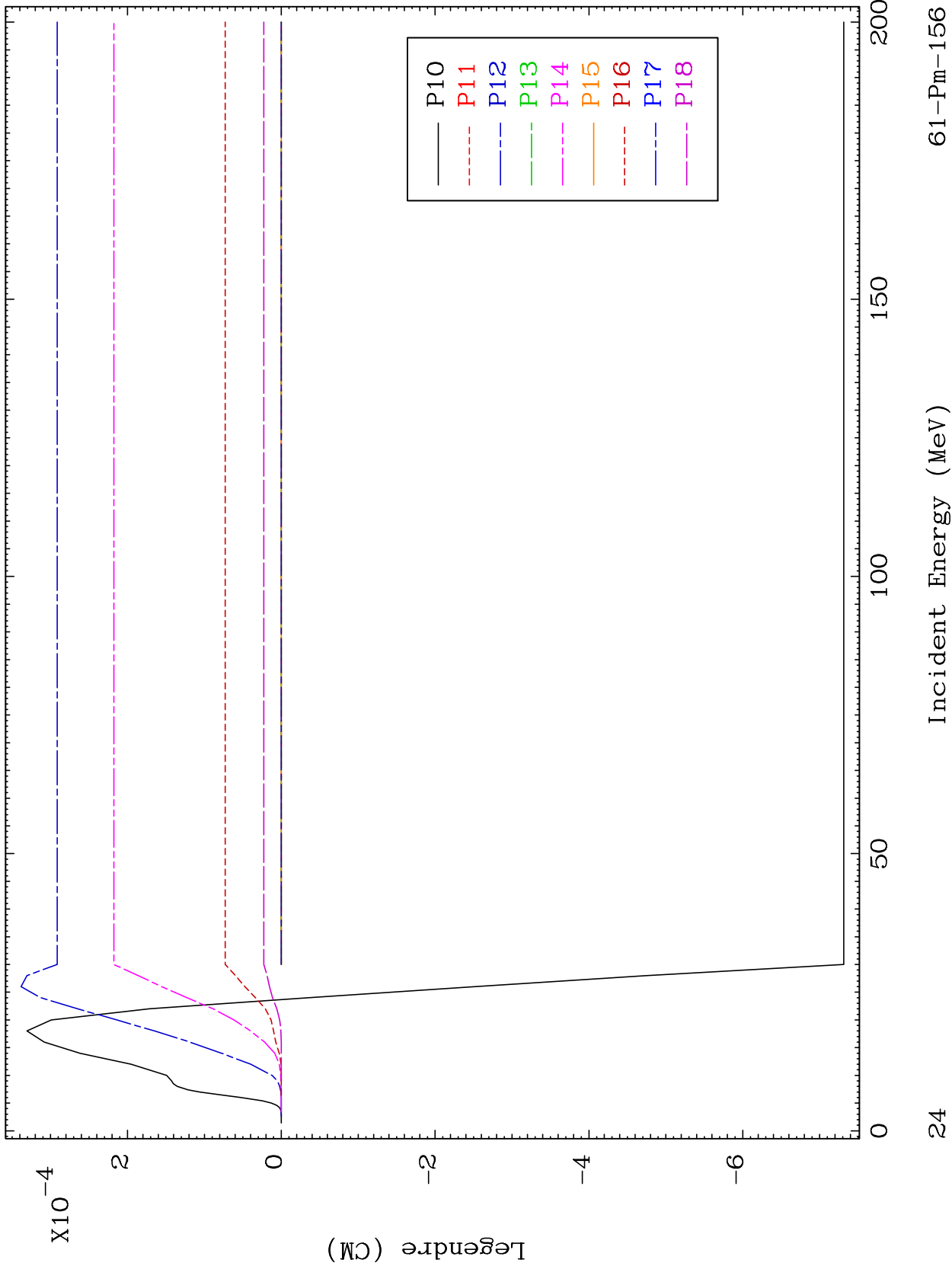




MAT 6176

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

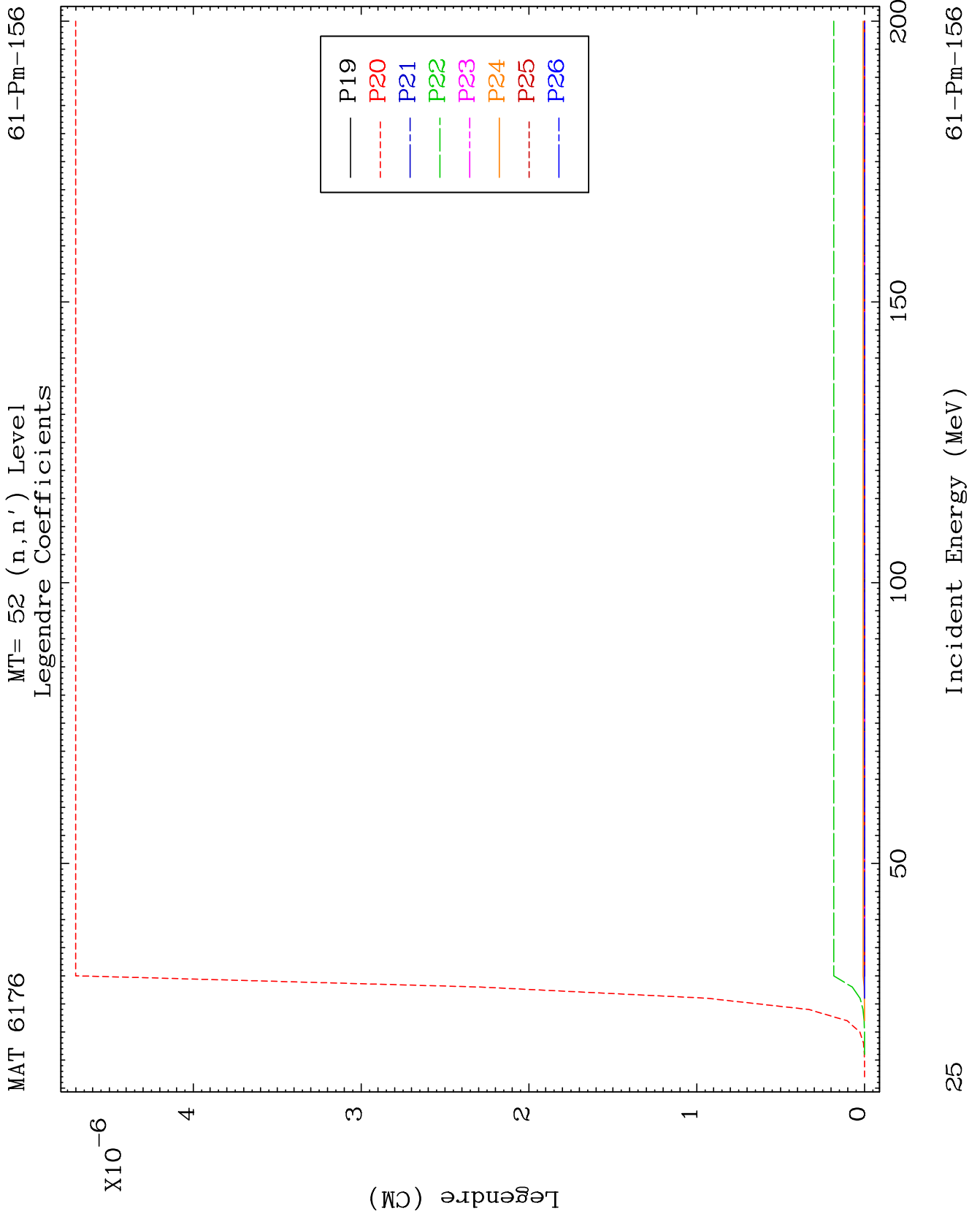
61-Pm-156



24

Incident Energy (MeV)

61-Pm-156

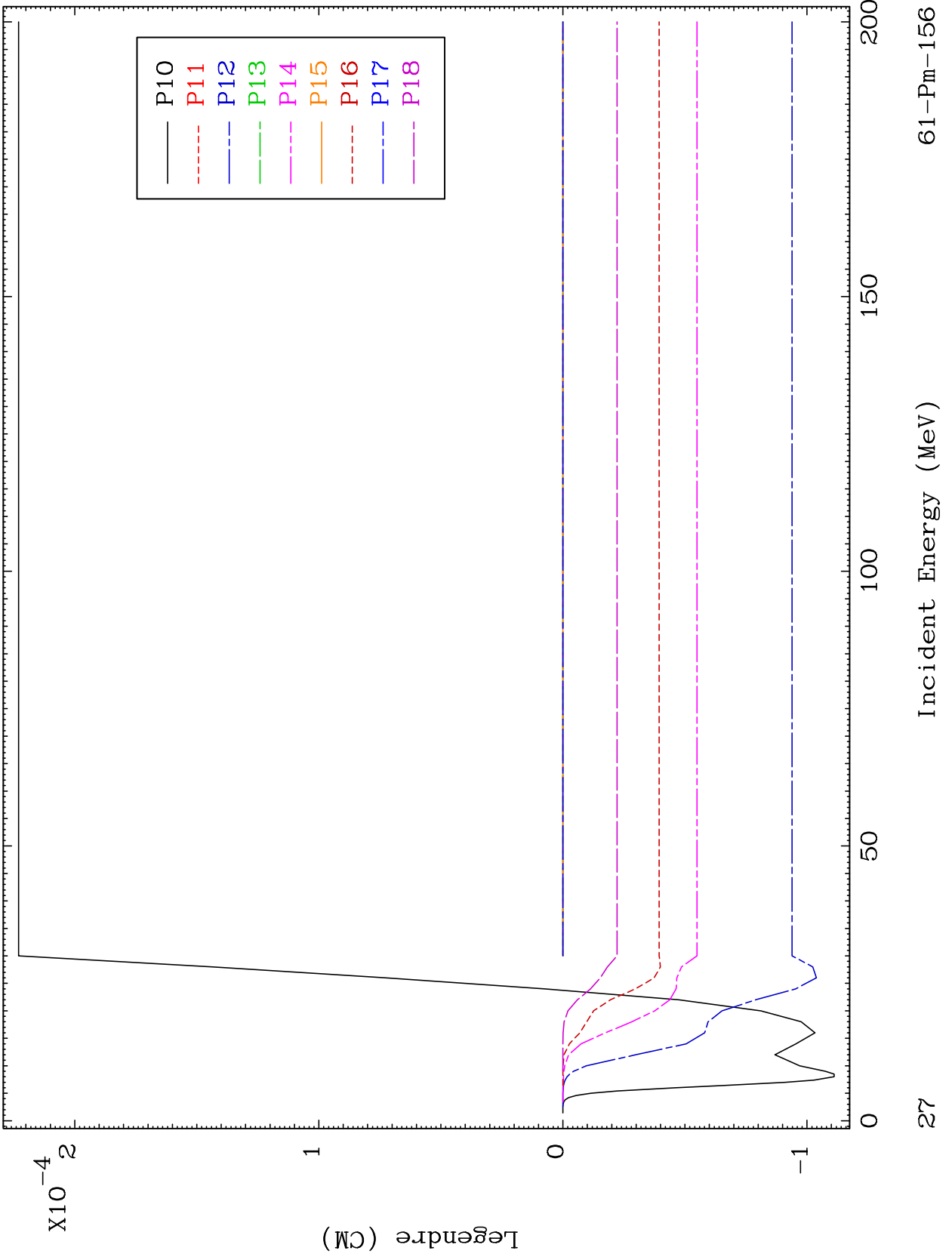




MAT 6176

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

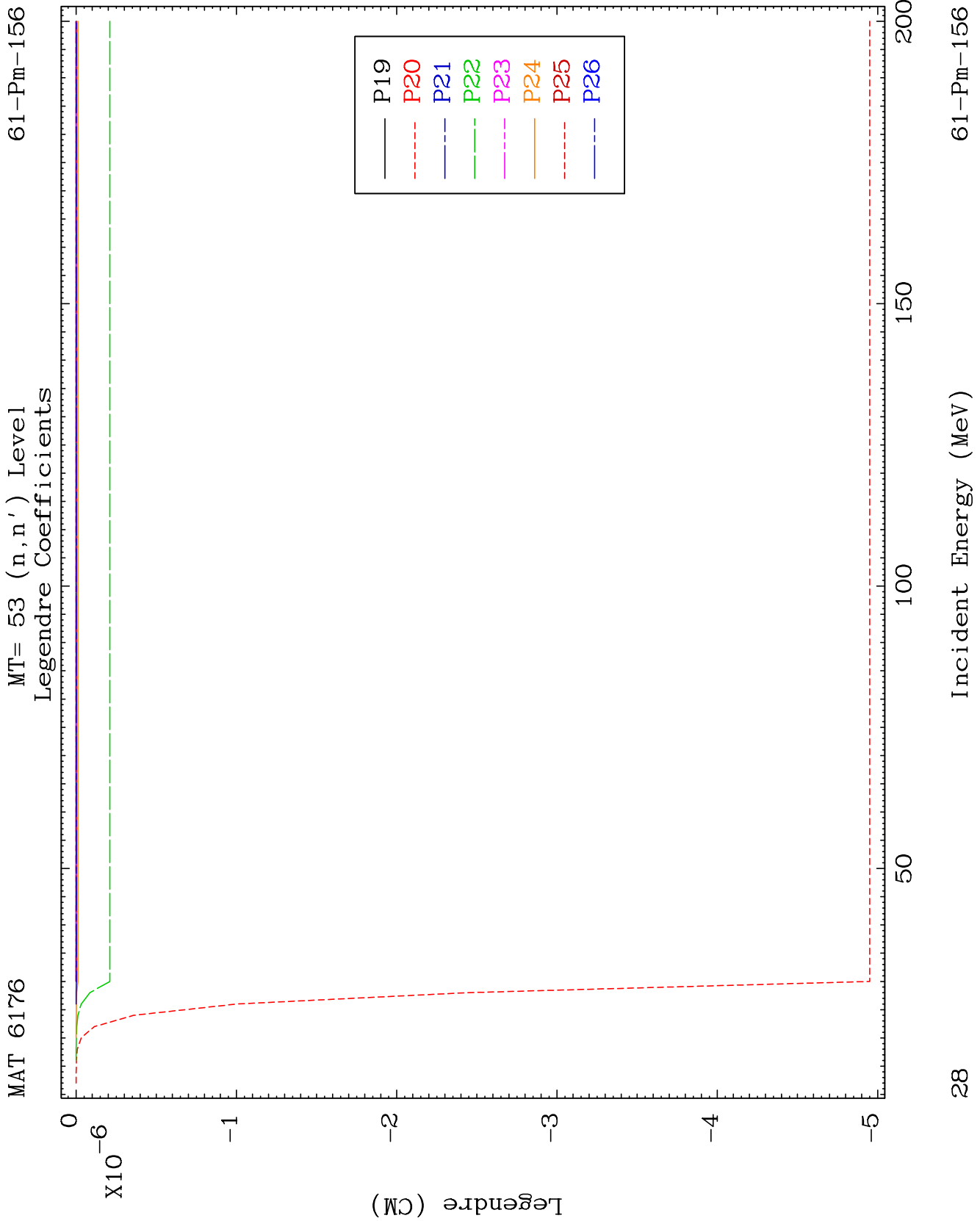
61-Pm-156



27

Incident Energy (MeV)

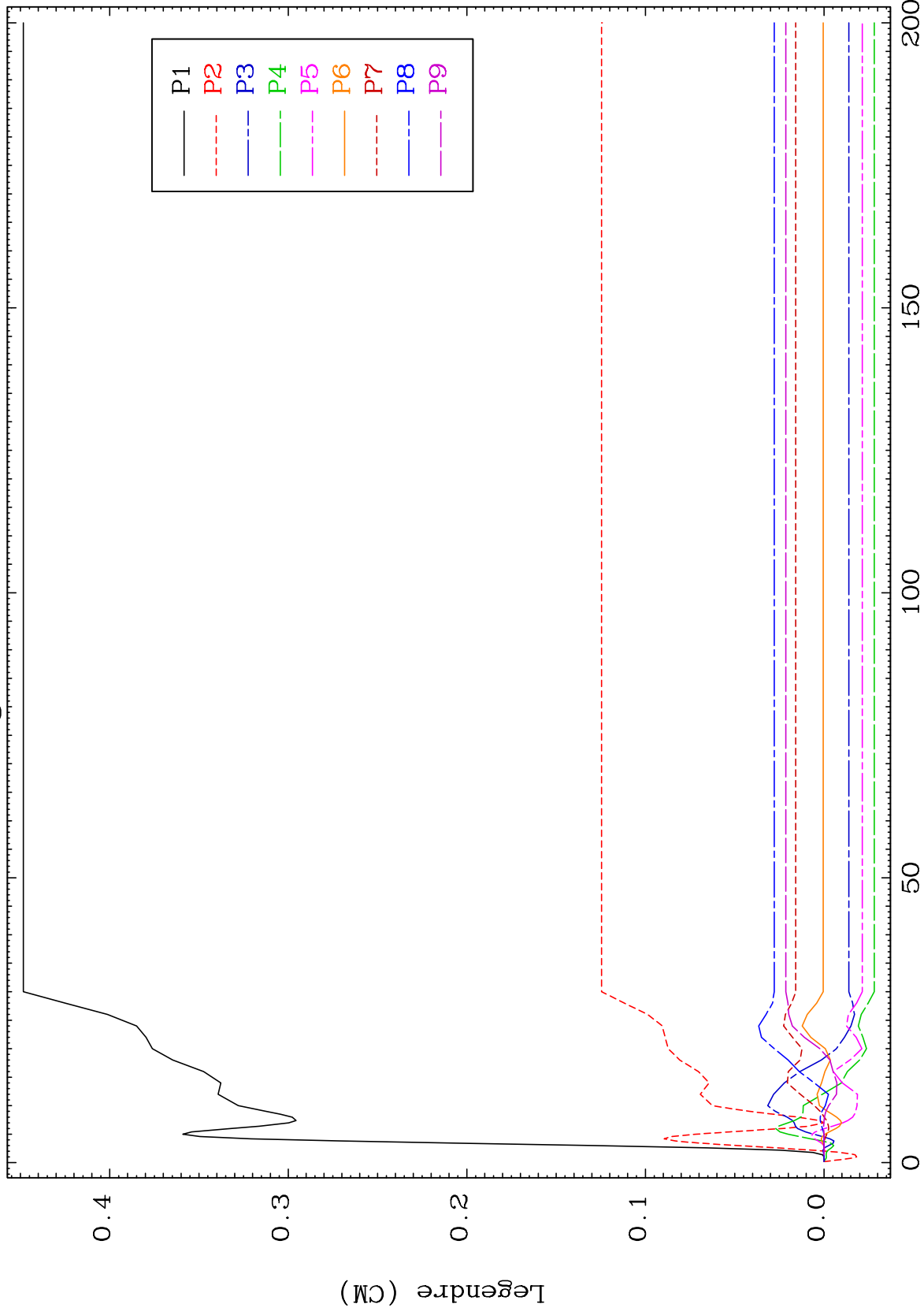
61-Pm-156



MAT 6176

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

61-Pm-156



29

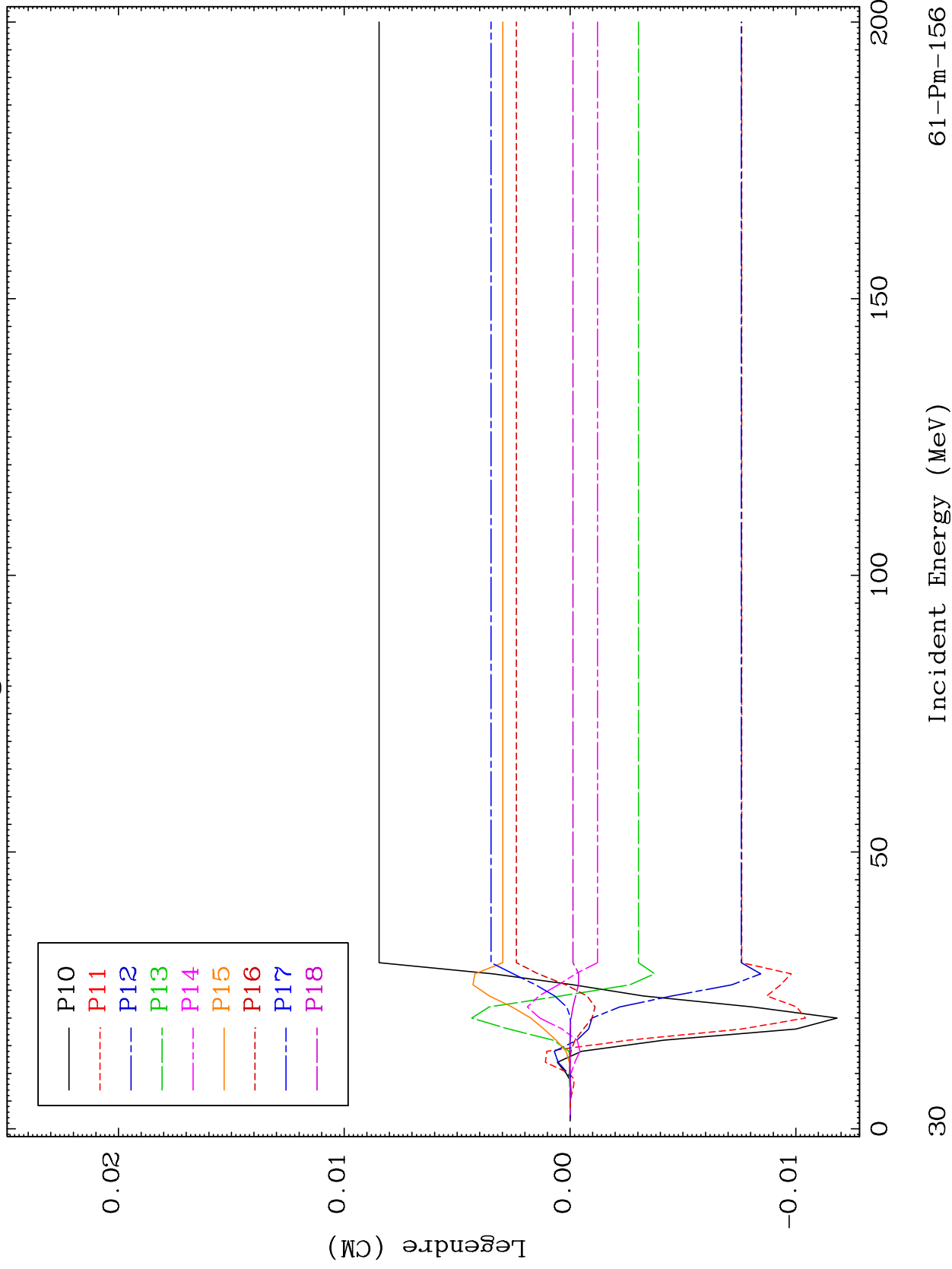
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



61-Pm-156

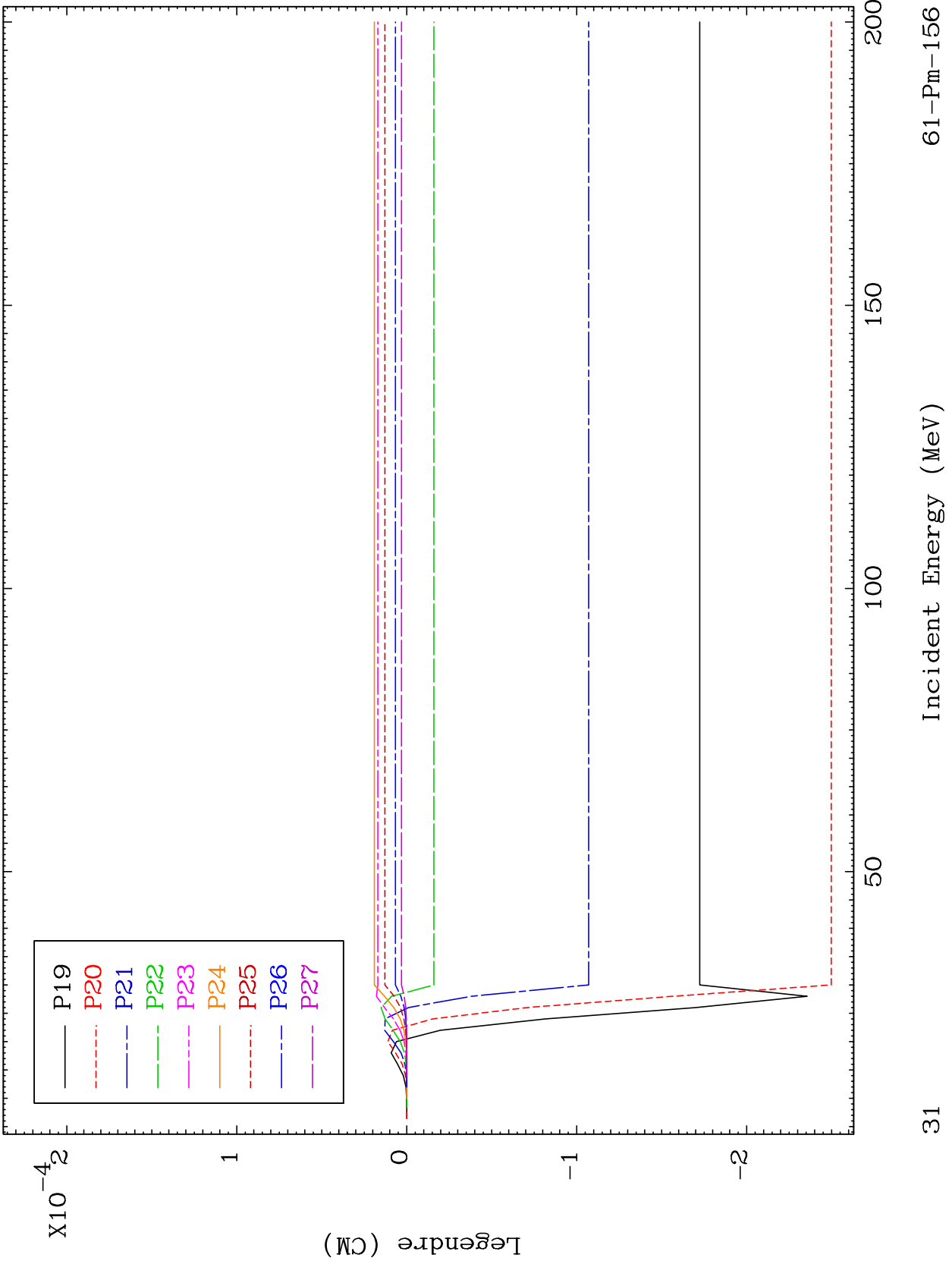
Incident Energy (MeV)

30

MAT 6176

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

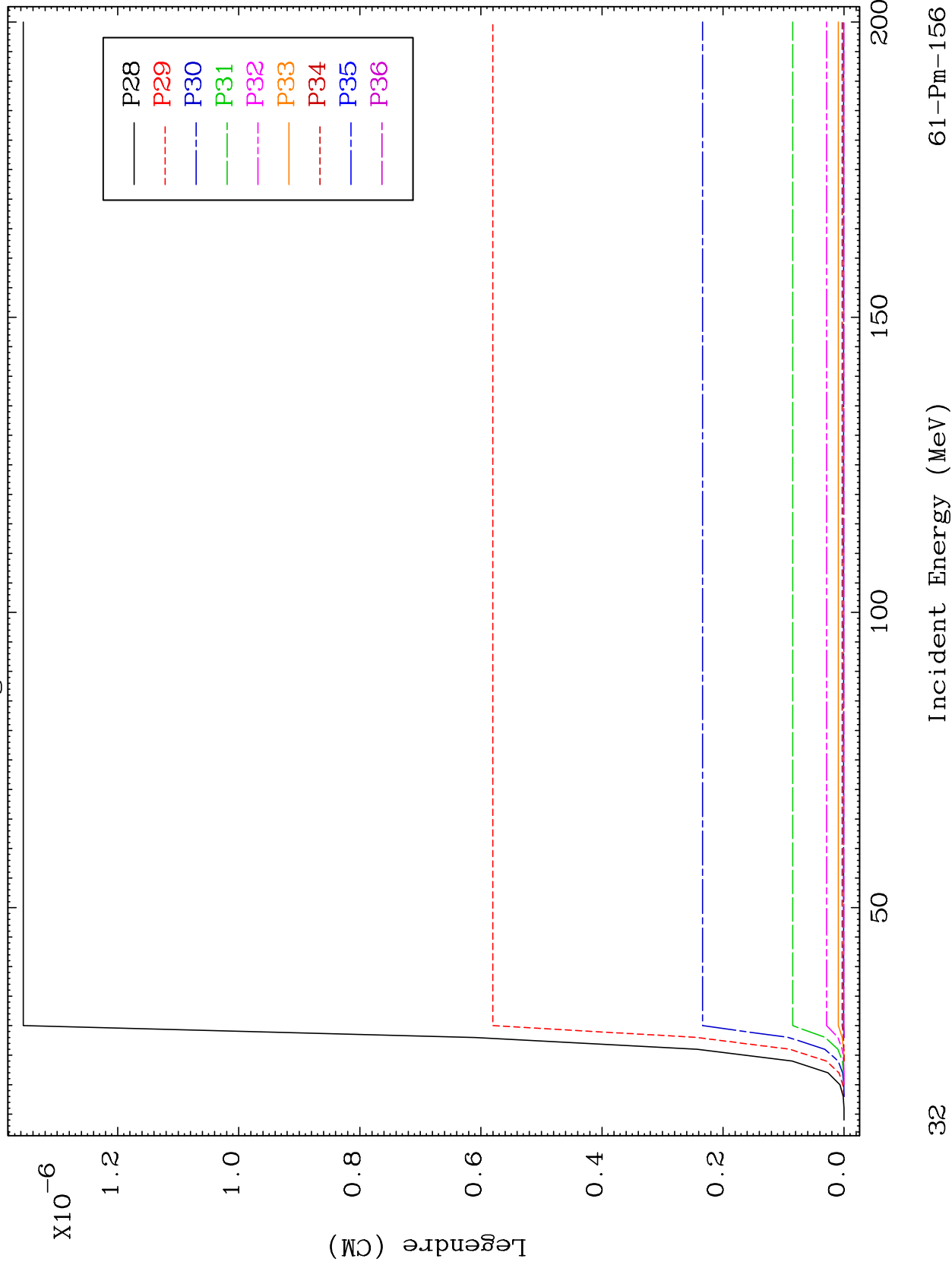
61-Pm-156



MAT 6176

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

61-Pm-156

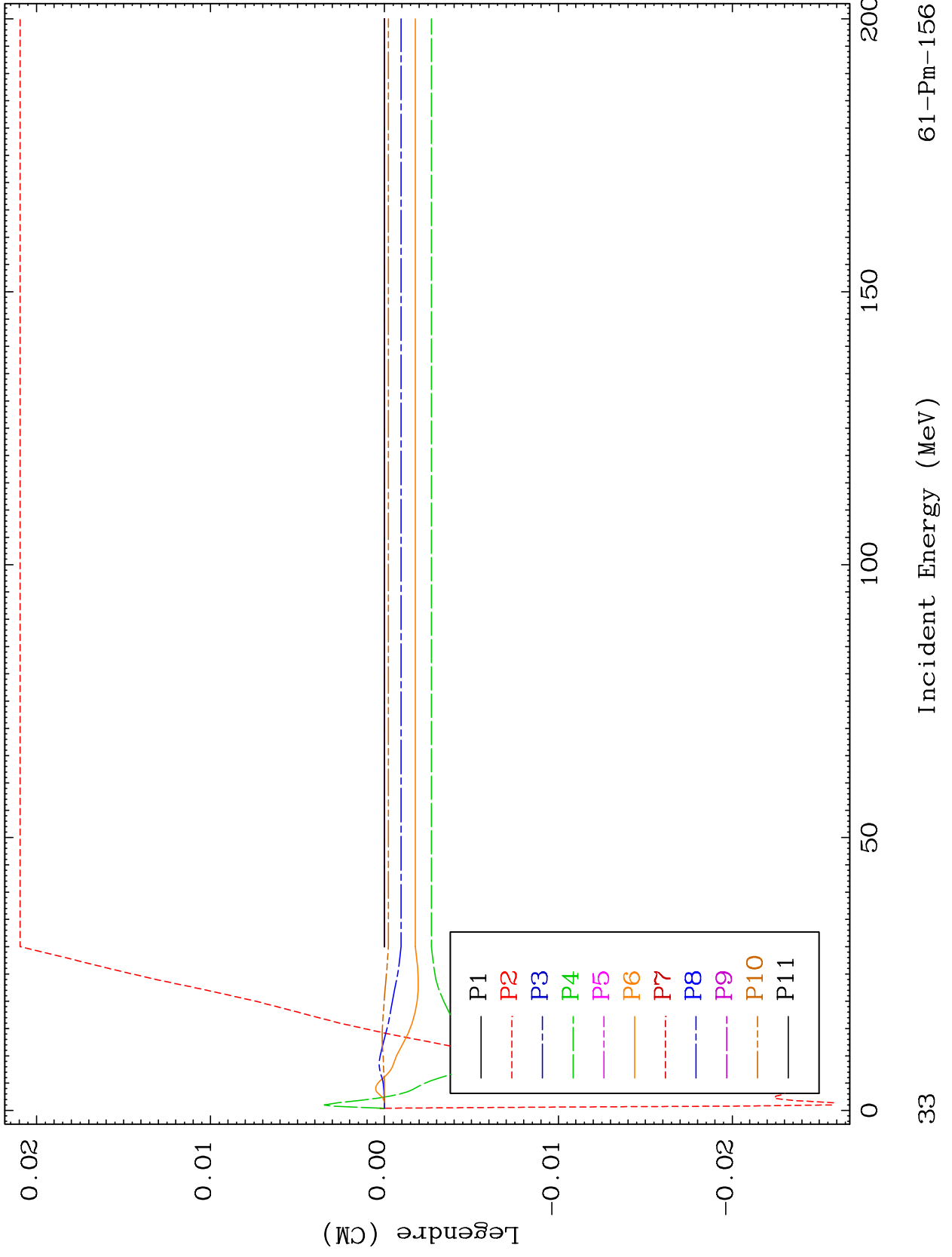


32

MAT 6176

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

61-Pm-156

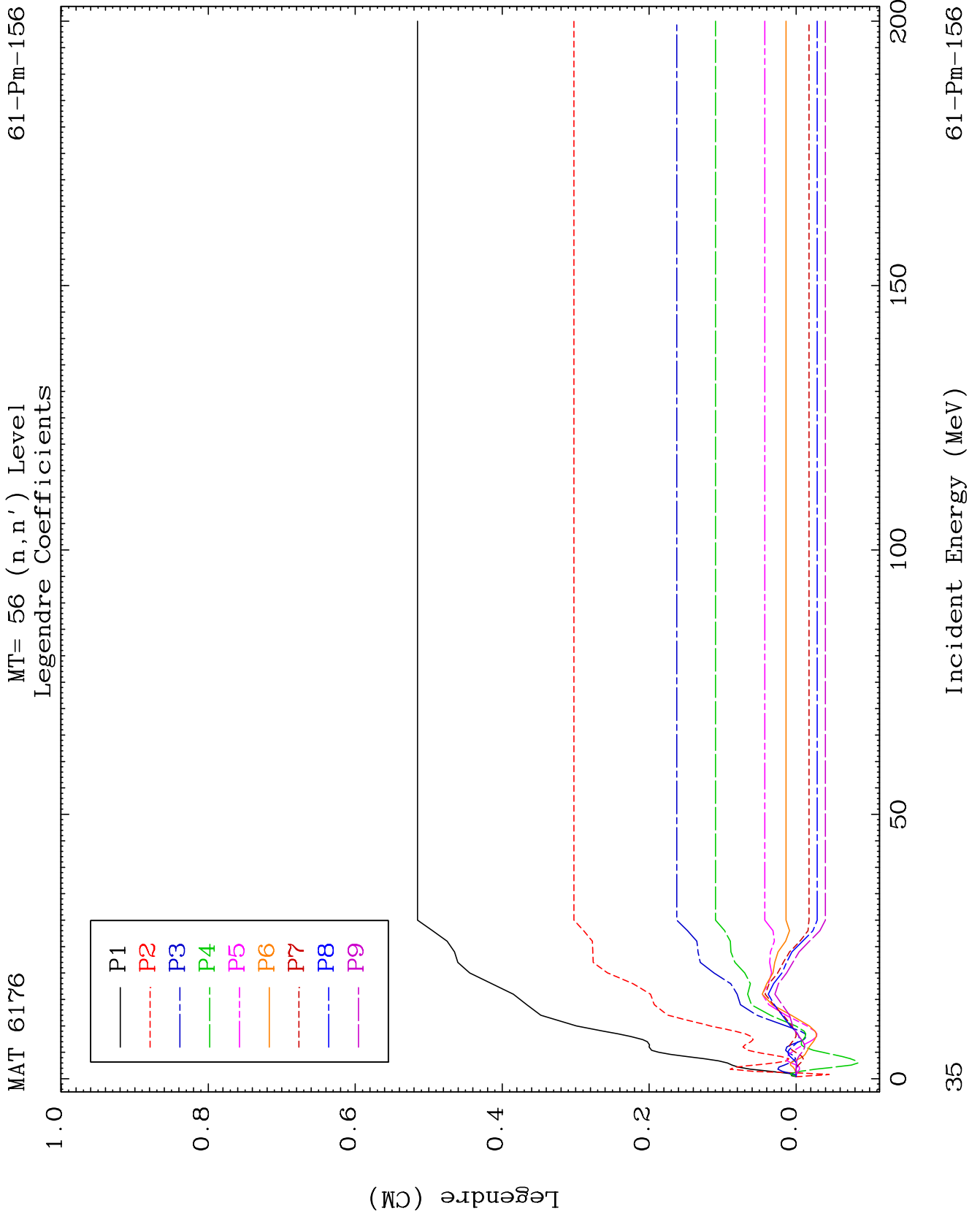


33

Incident Energy (MeV)

61-Pm-156

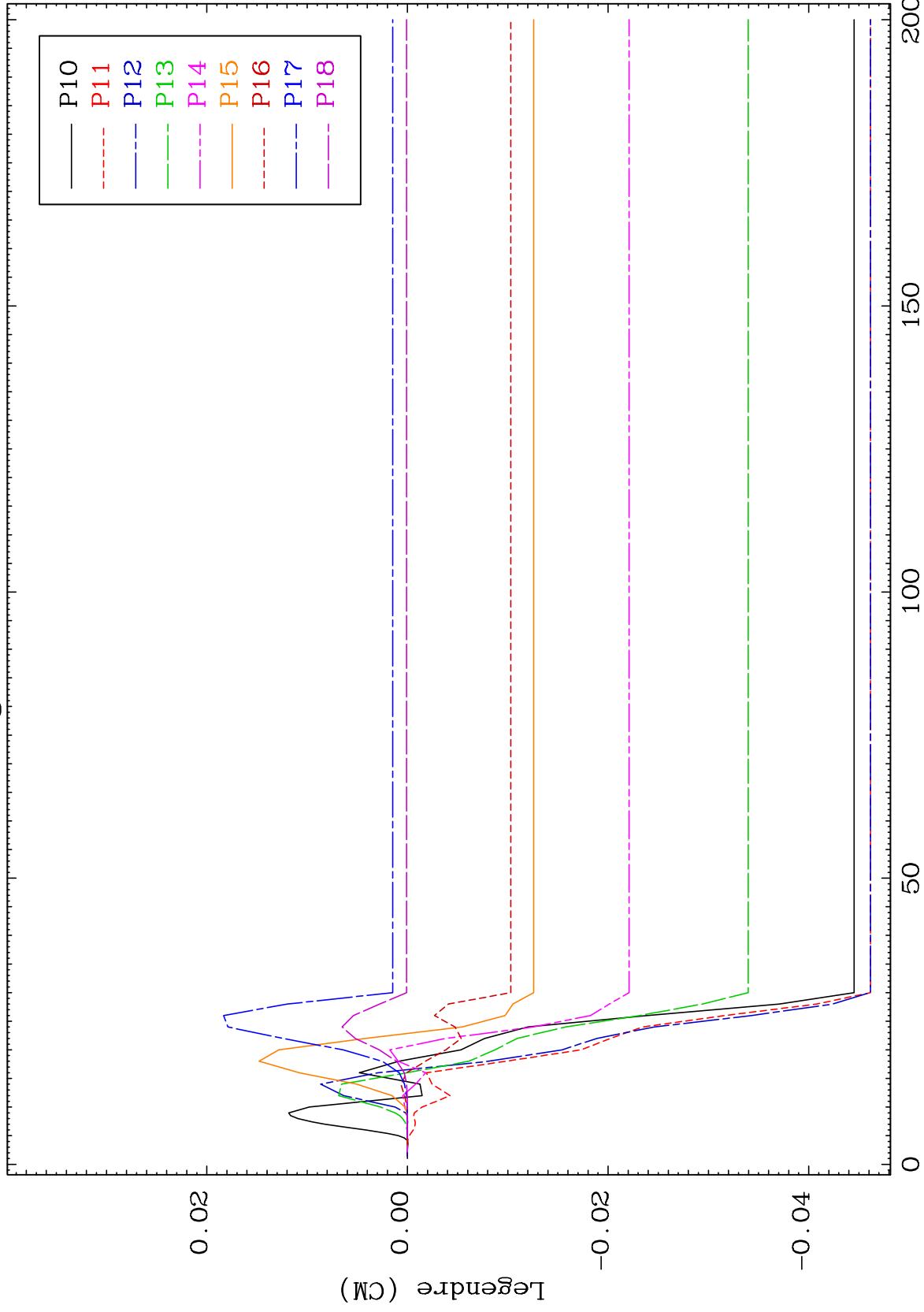




MAT 6176

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

61-Pm-156



36

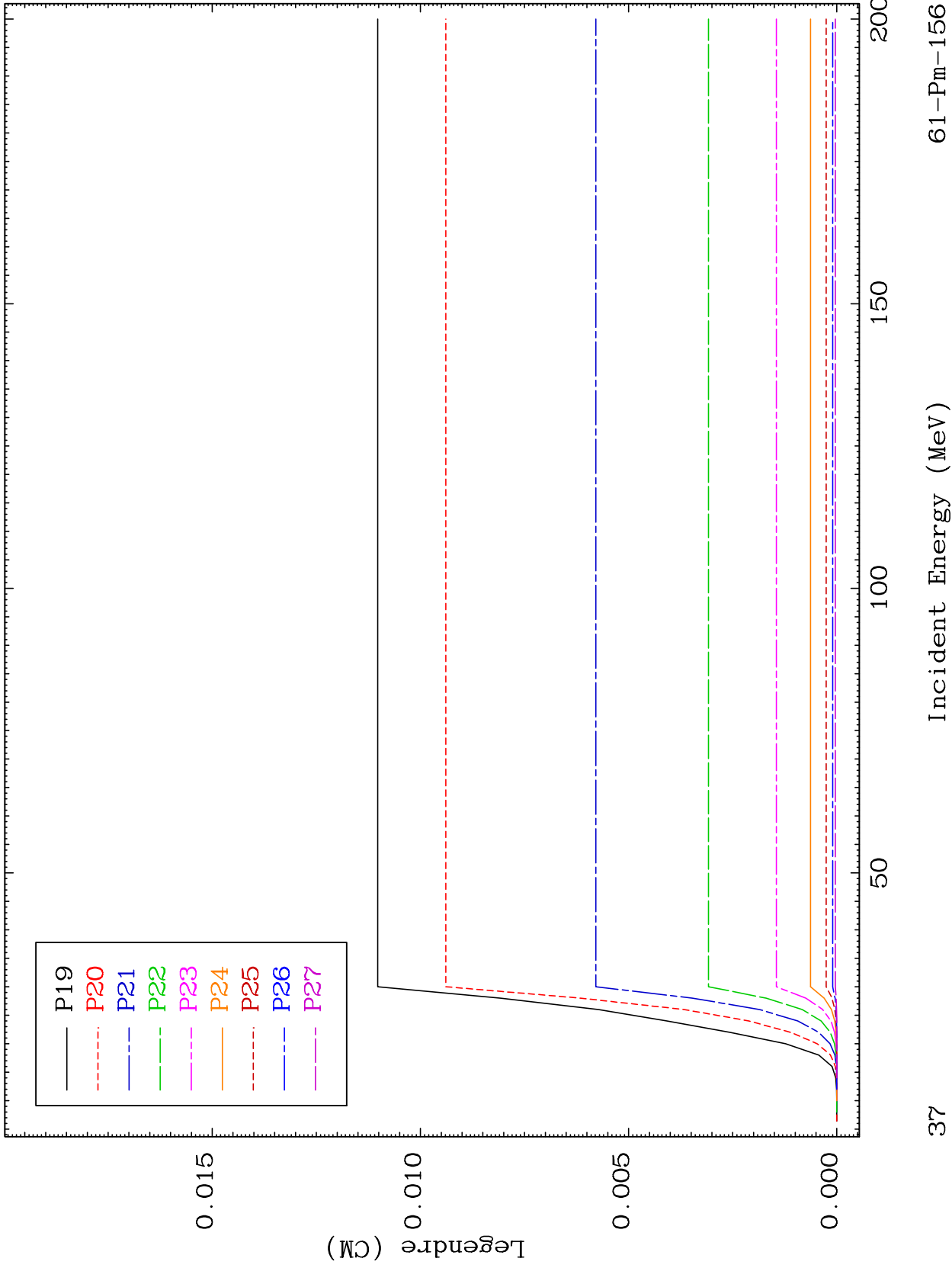
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



37

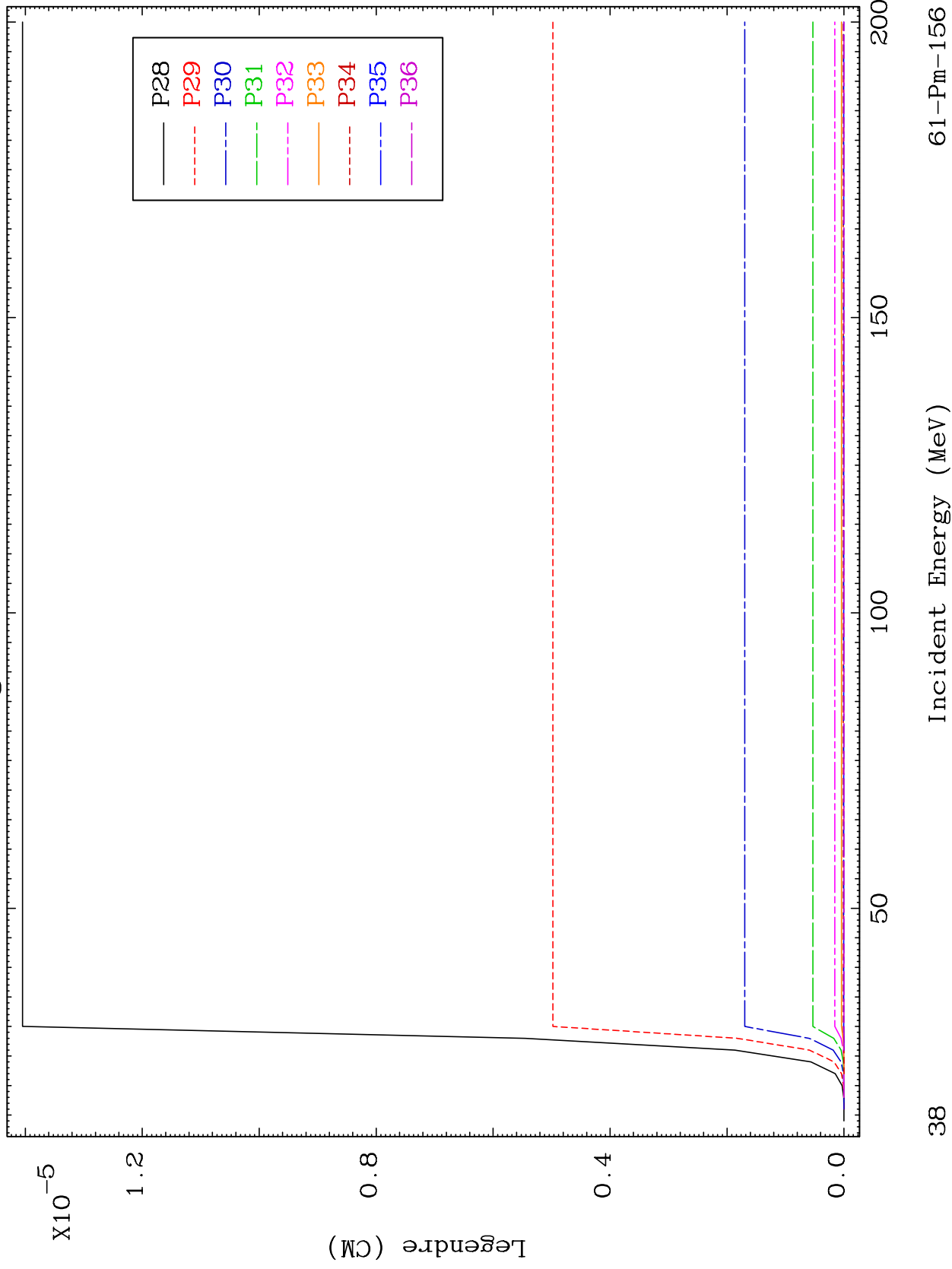
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



38

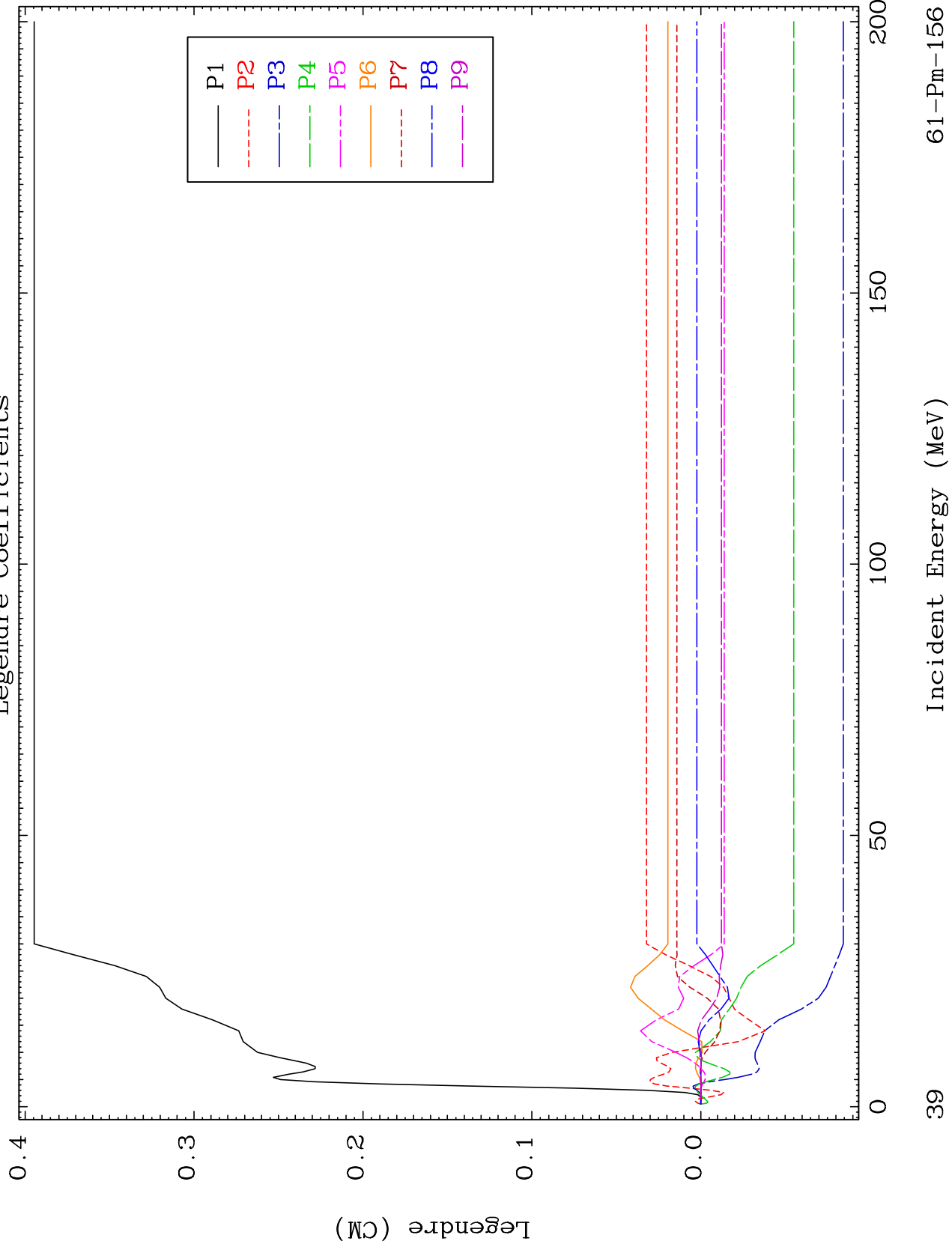
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



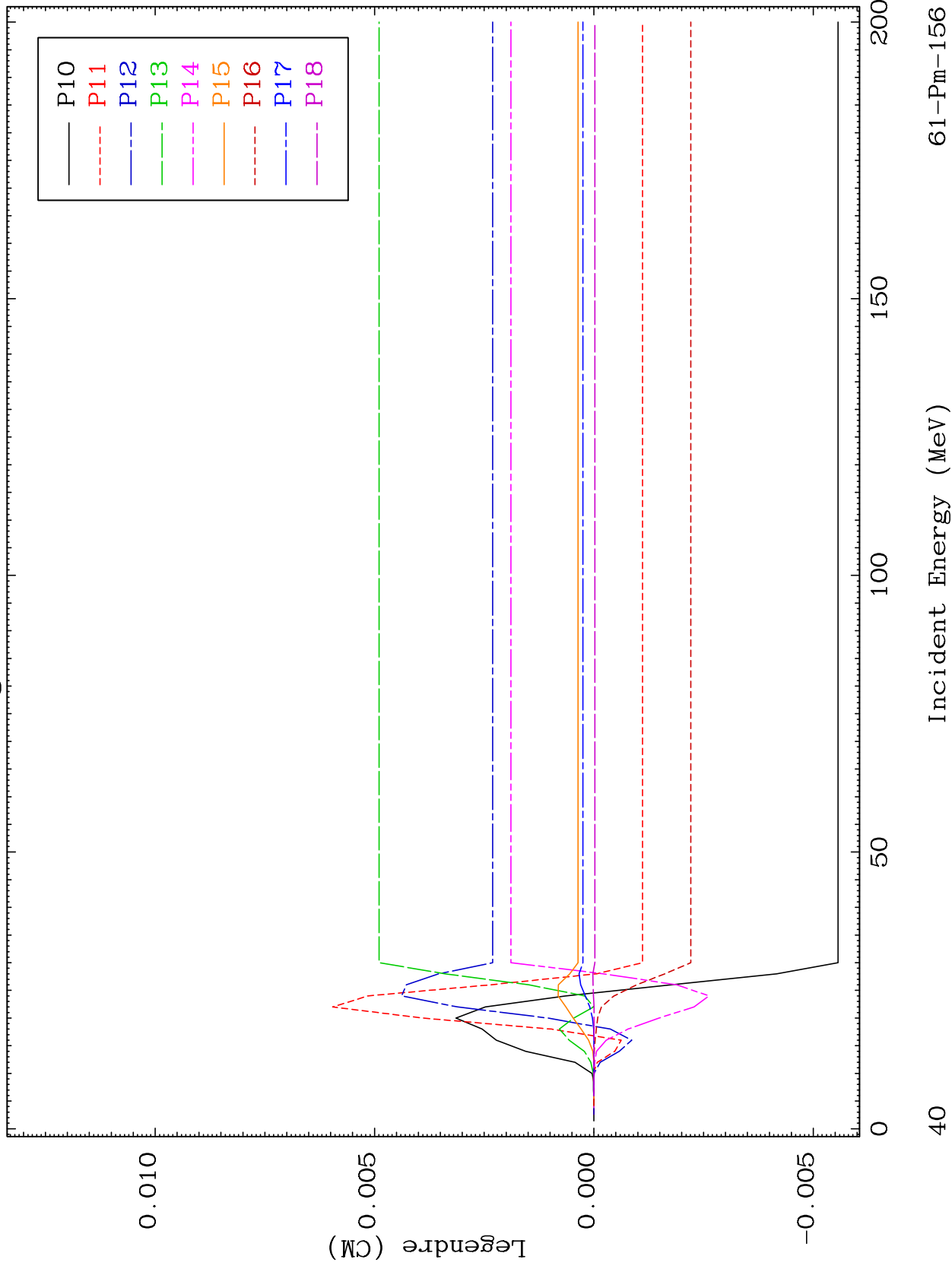
39

61-Pm-156

MAT 6176

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

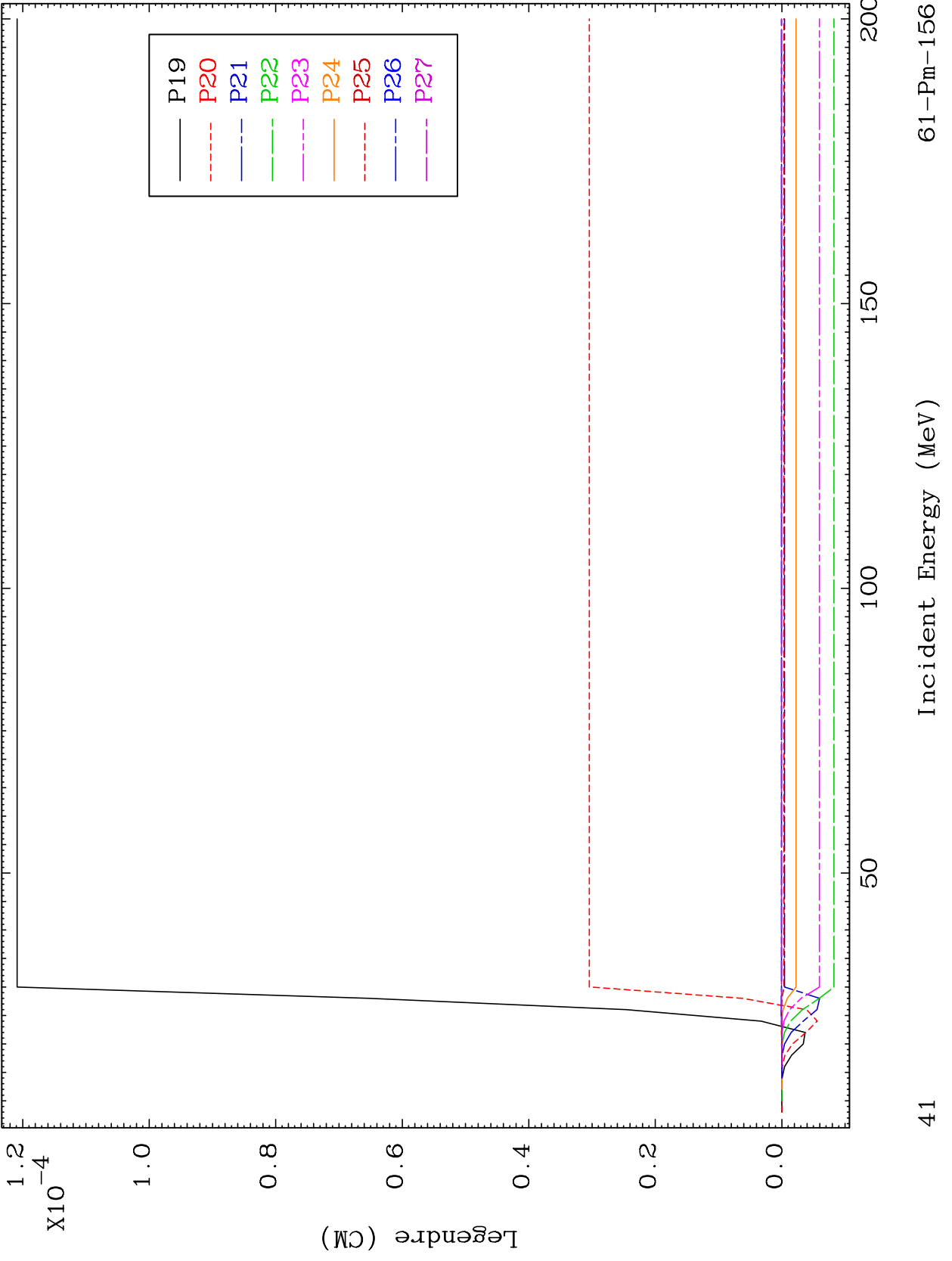
61-Pm-156



61-Pm-156

Incident Energy (MeV)

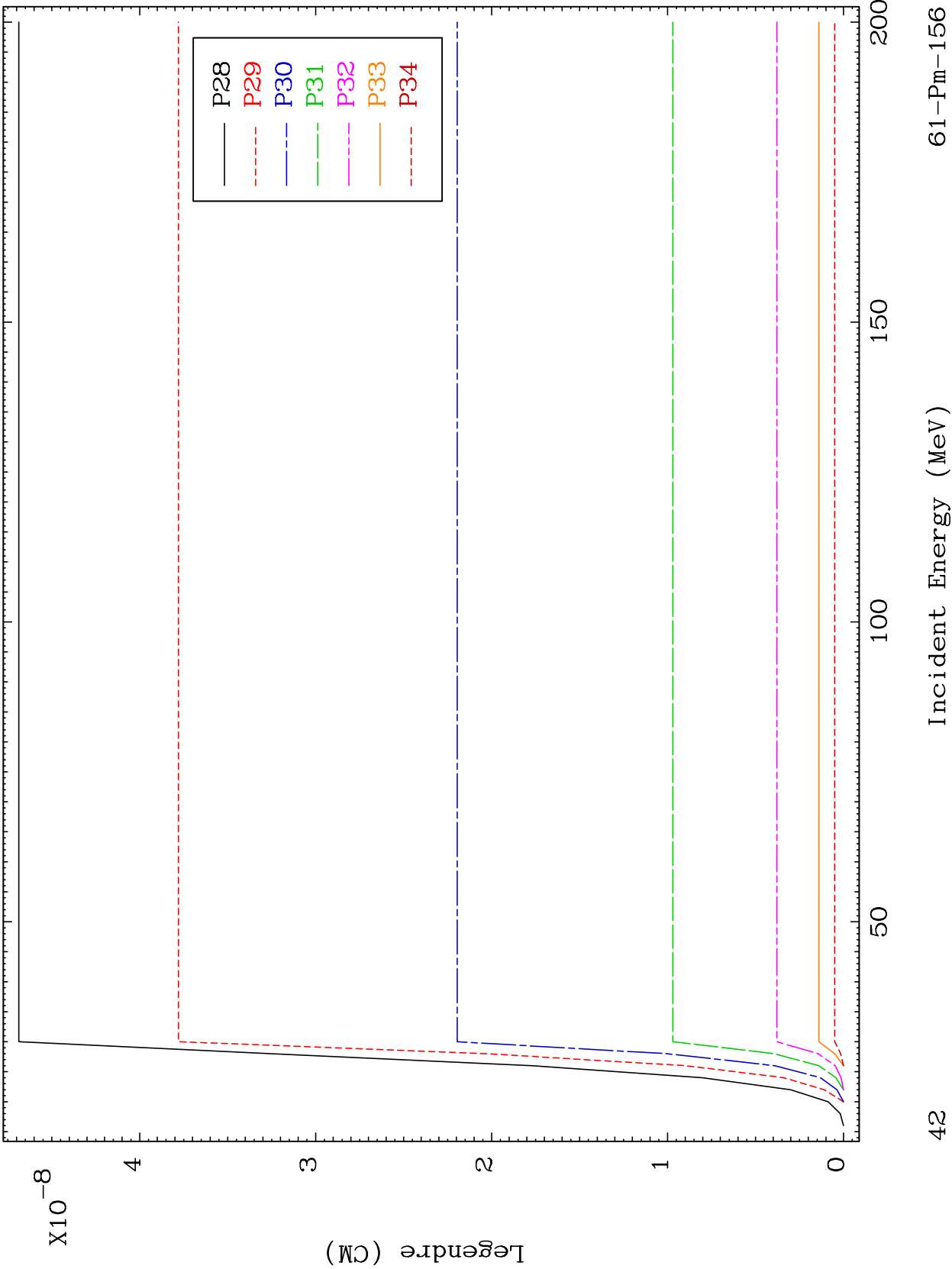
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MAT 6176

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

61-Pm-156



42

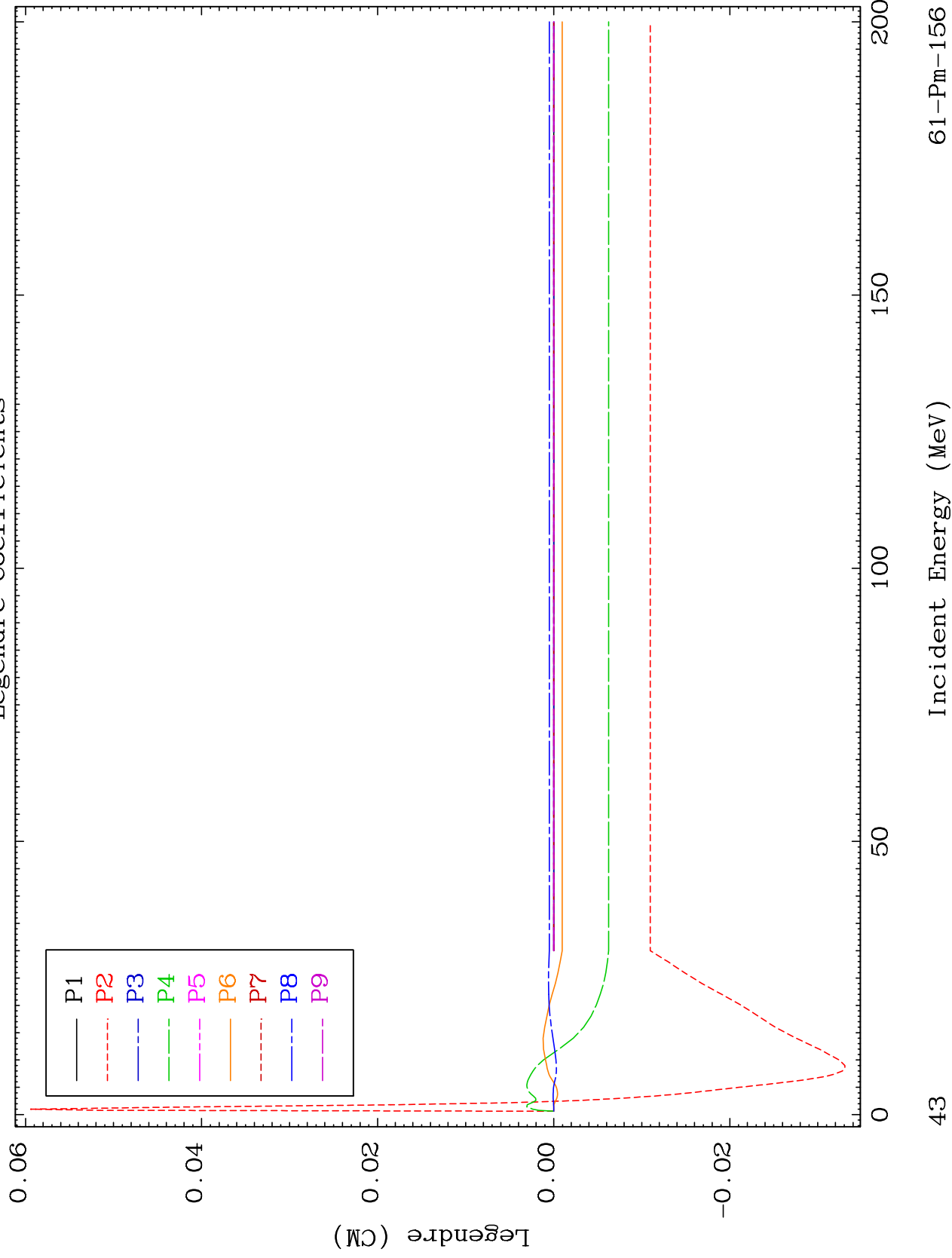
61-Pm-156

61-Pm-156

MAT 6176

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

61-Pm-156

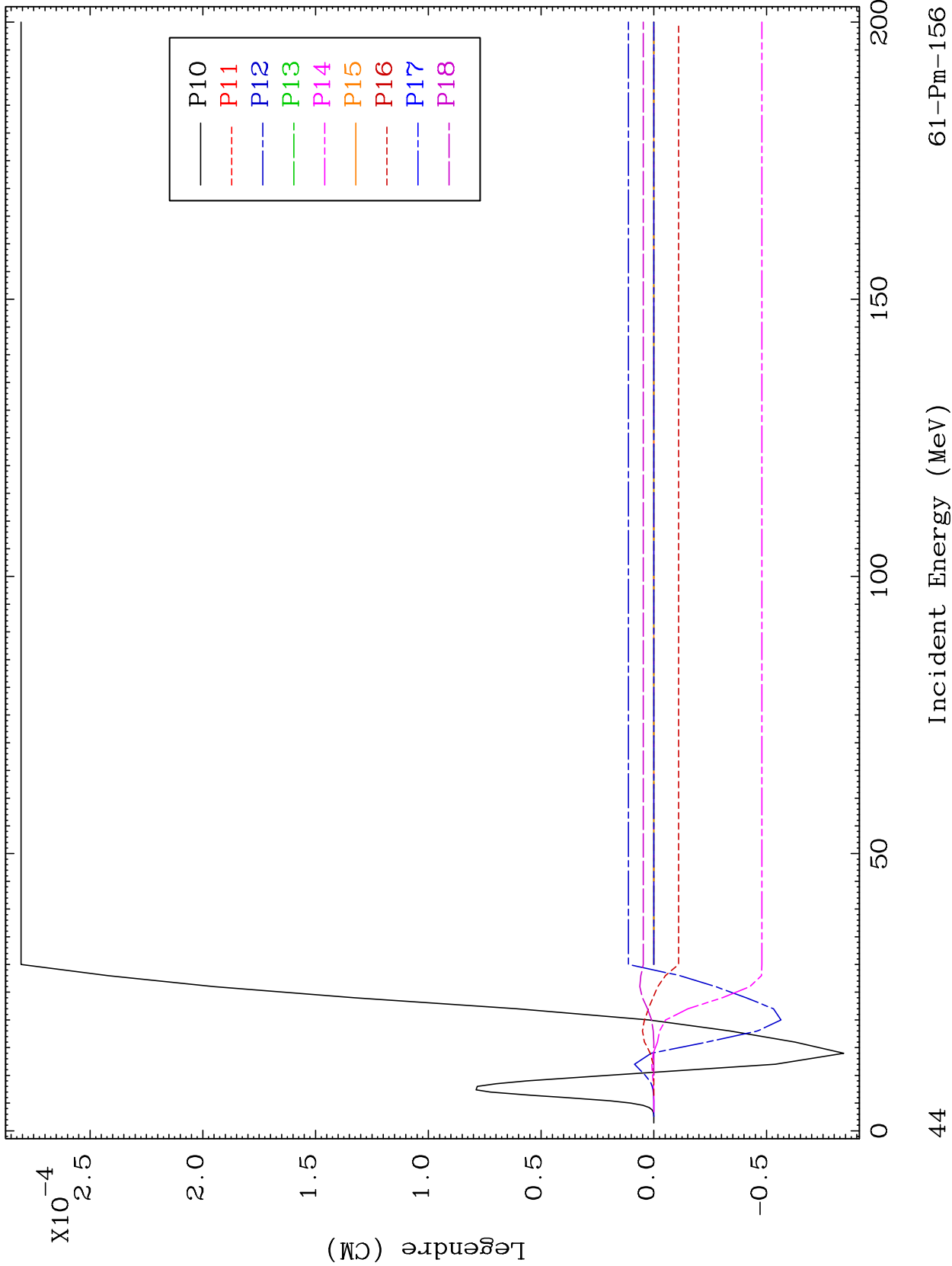


43

MAT 6176

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

61-Pm-156



61-Pm-156

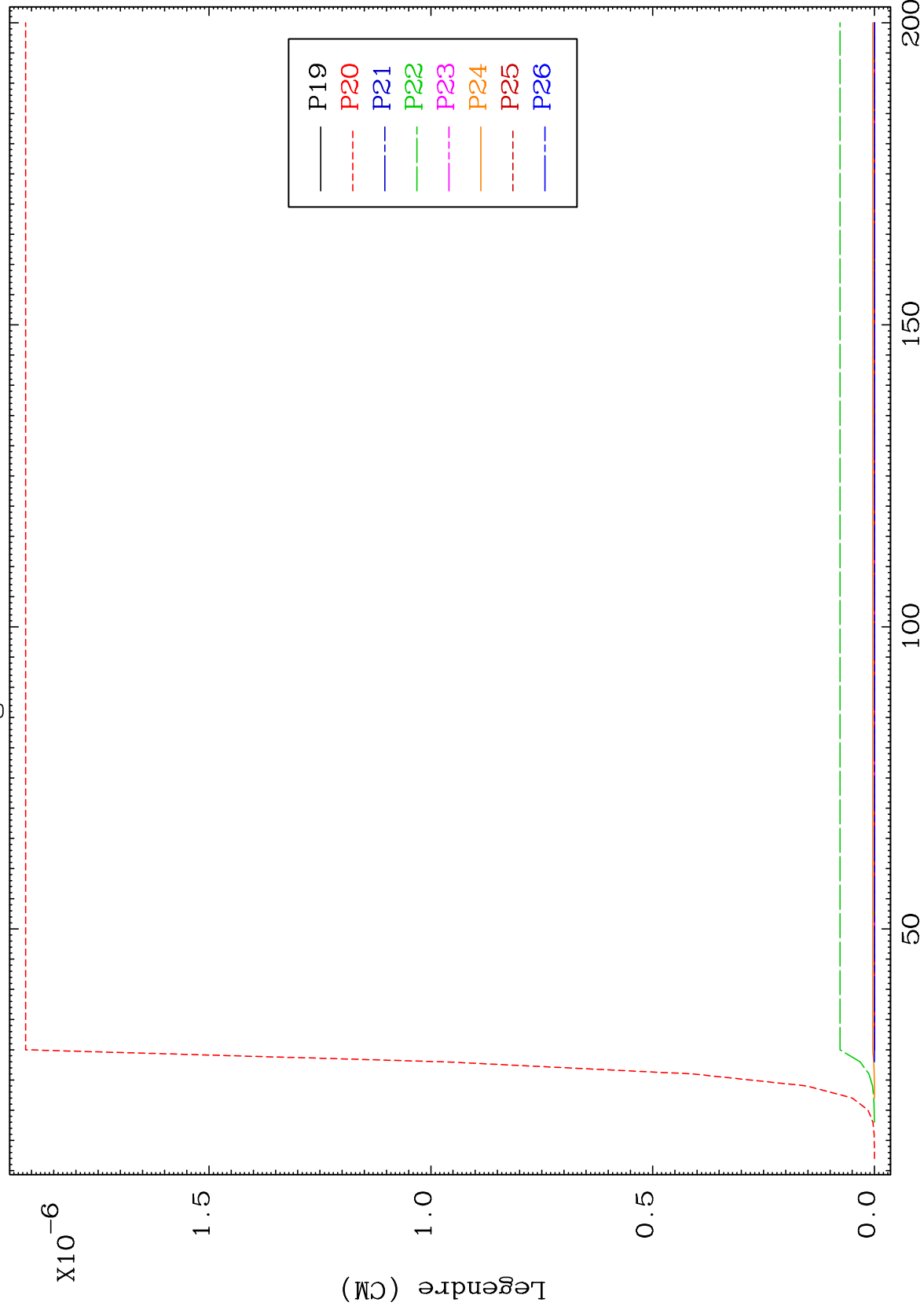
Incident Energy (MeV)

44

MAT 6176

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

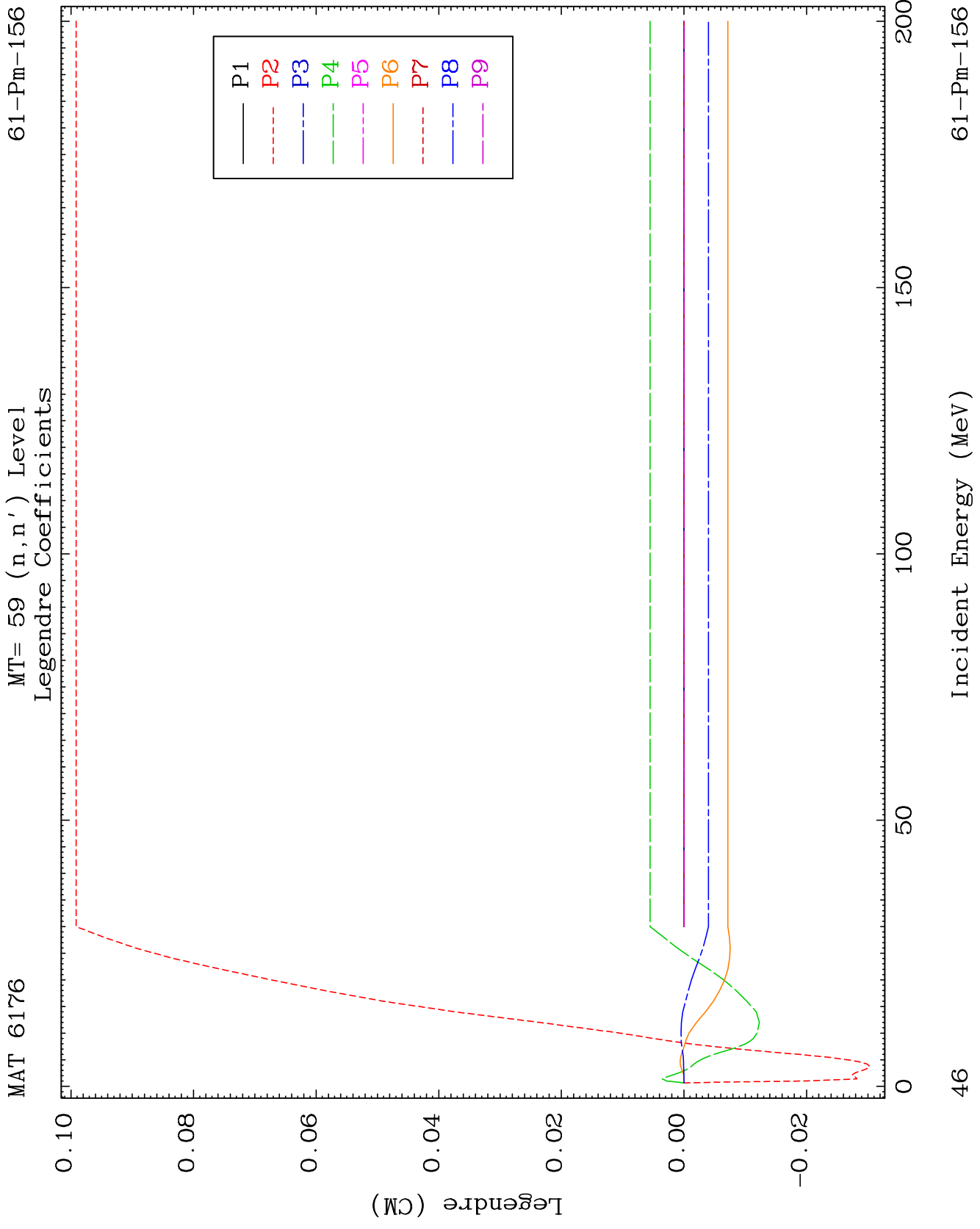
61-Pm-156



61-Pm-156

Incident Energy (MeV)

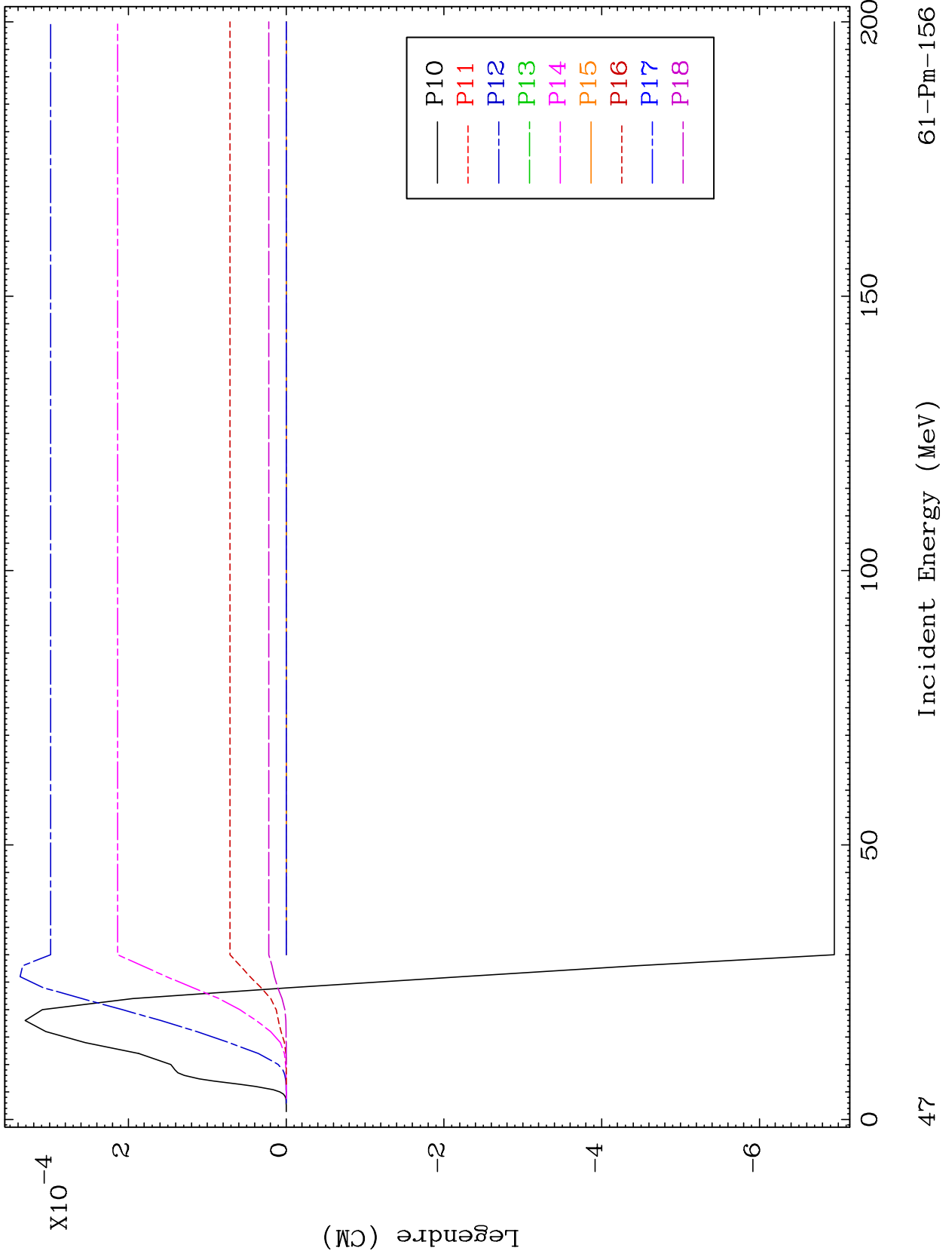
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MAT 6176

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

61-Pm-156



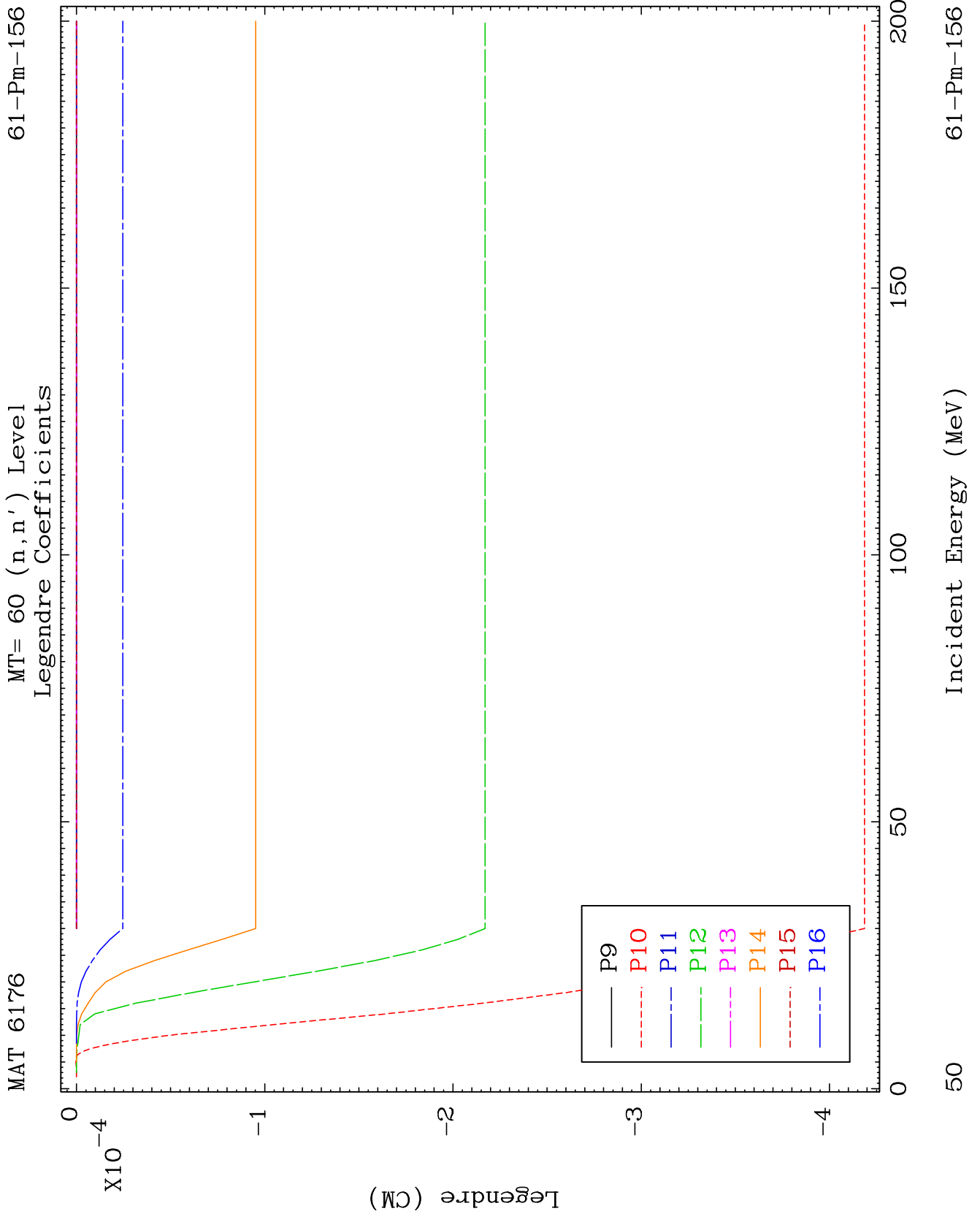
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Incident Energy (MeV)

61-Pm-156



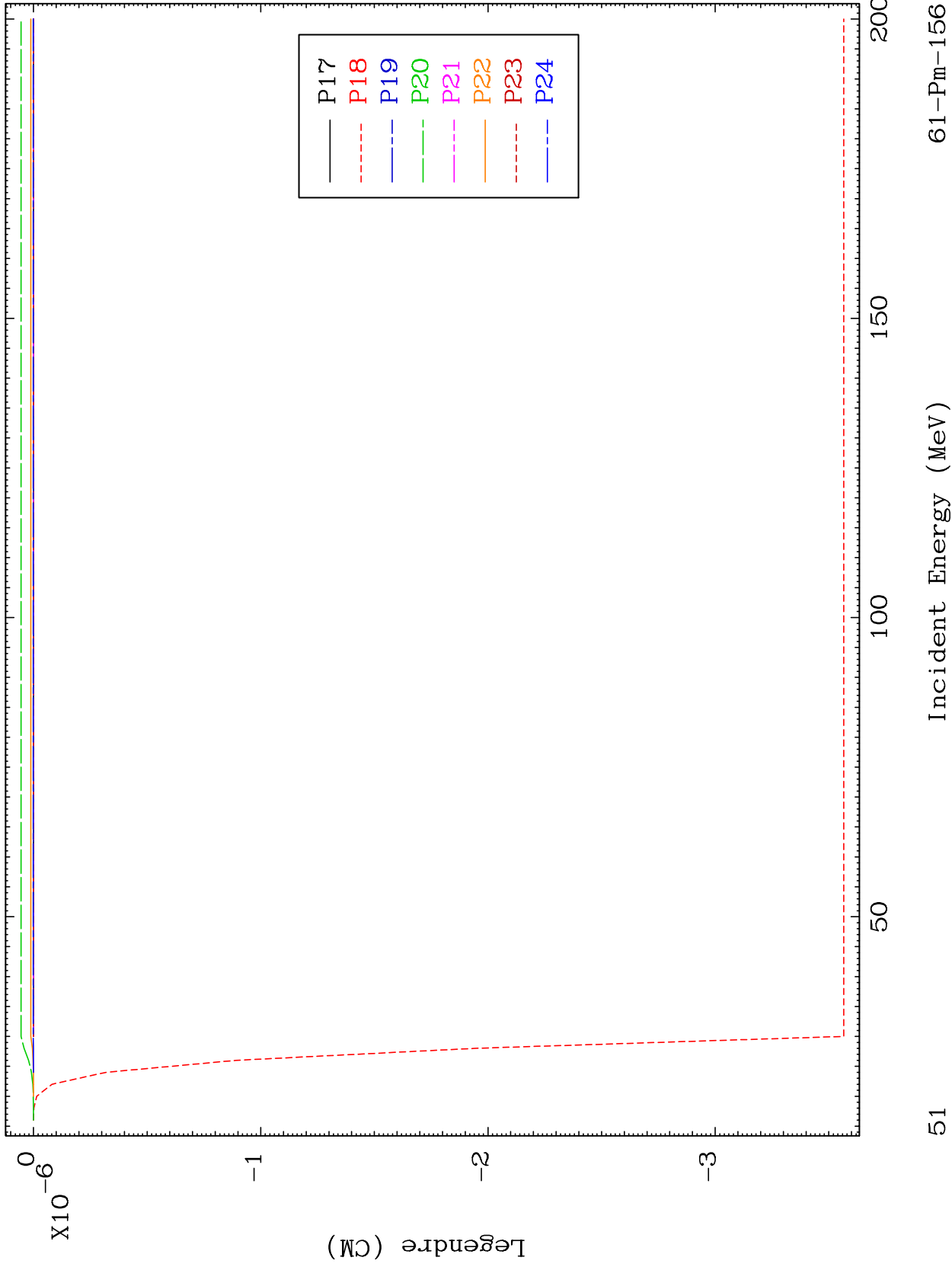




MAT 6176

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

61-Pm-156



51

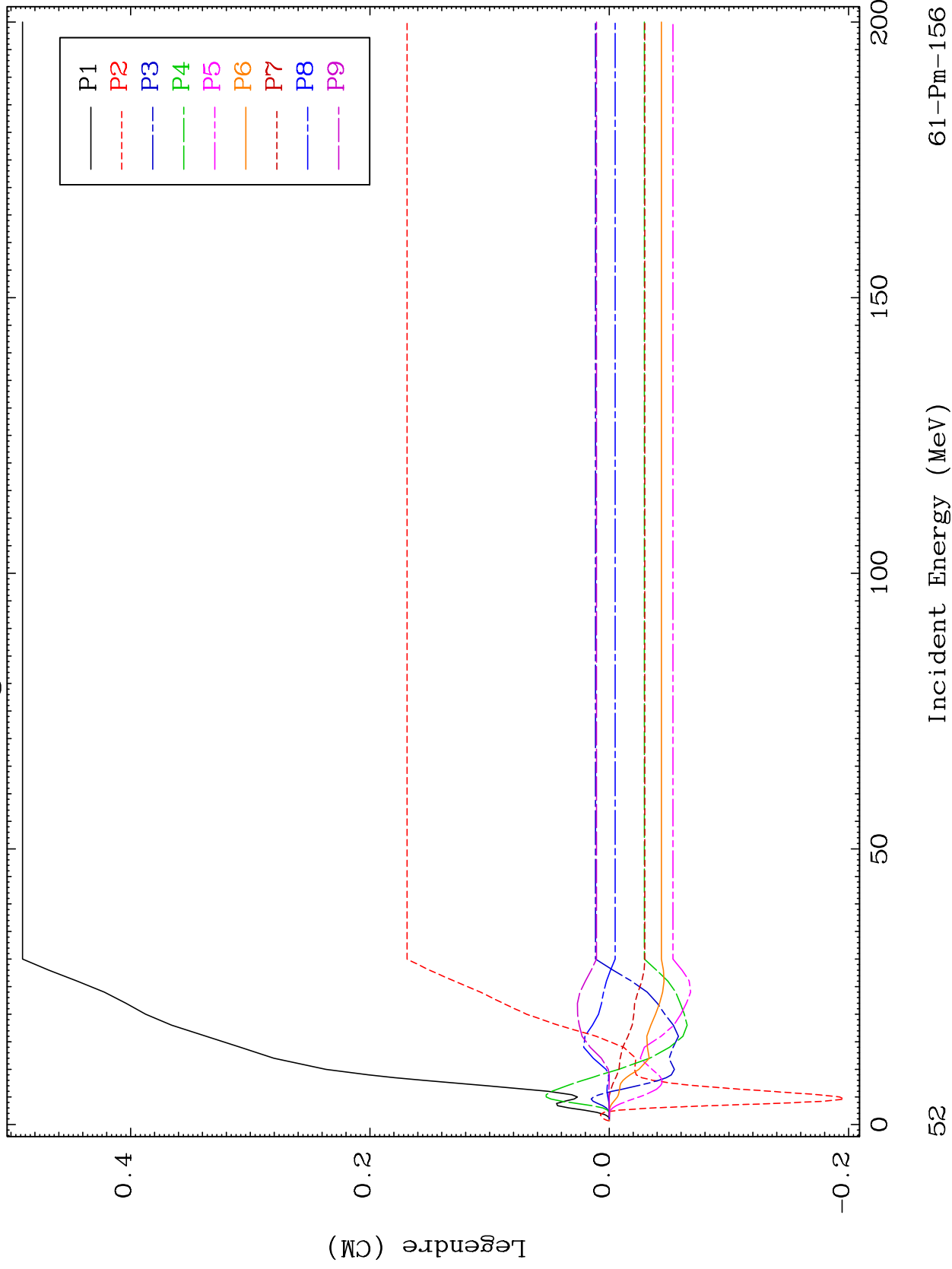
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



61-Pm-156

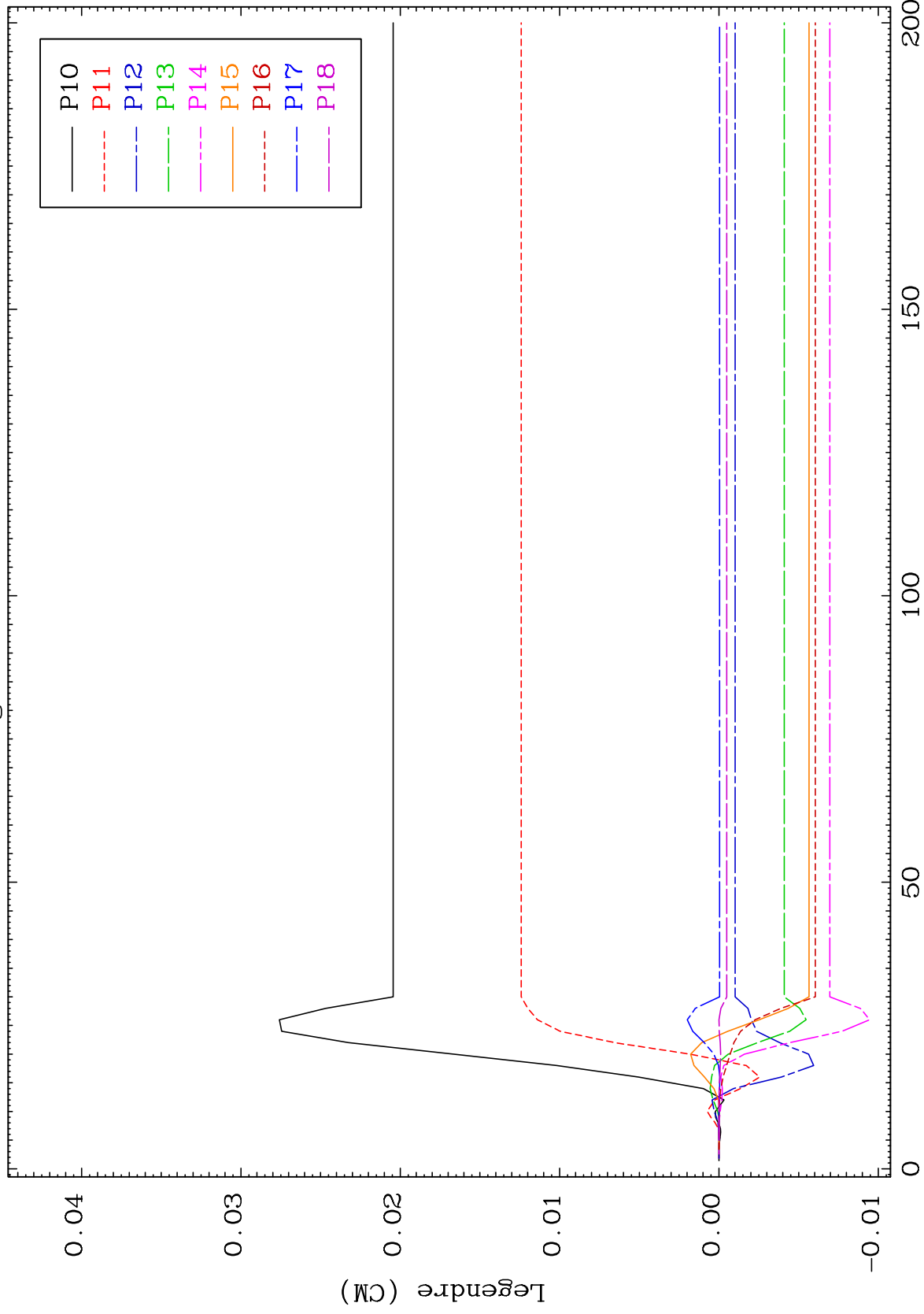
Incident Energy (MeV)

52

MAT 6176

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

61-Pm-156



53

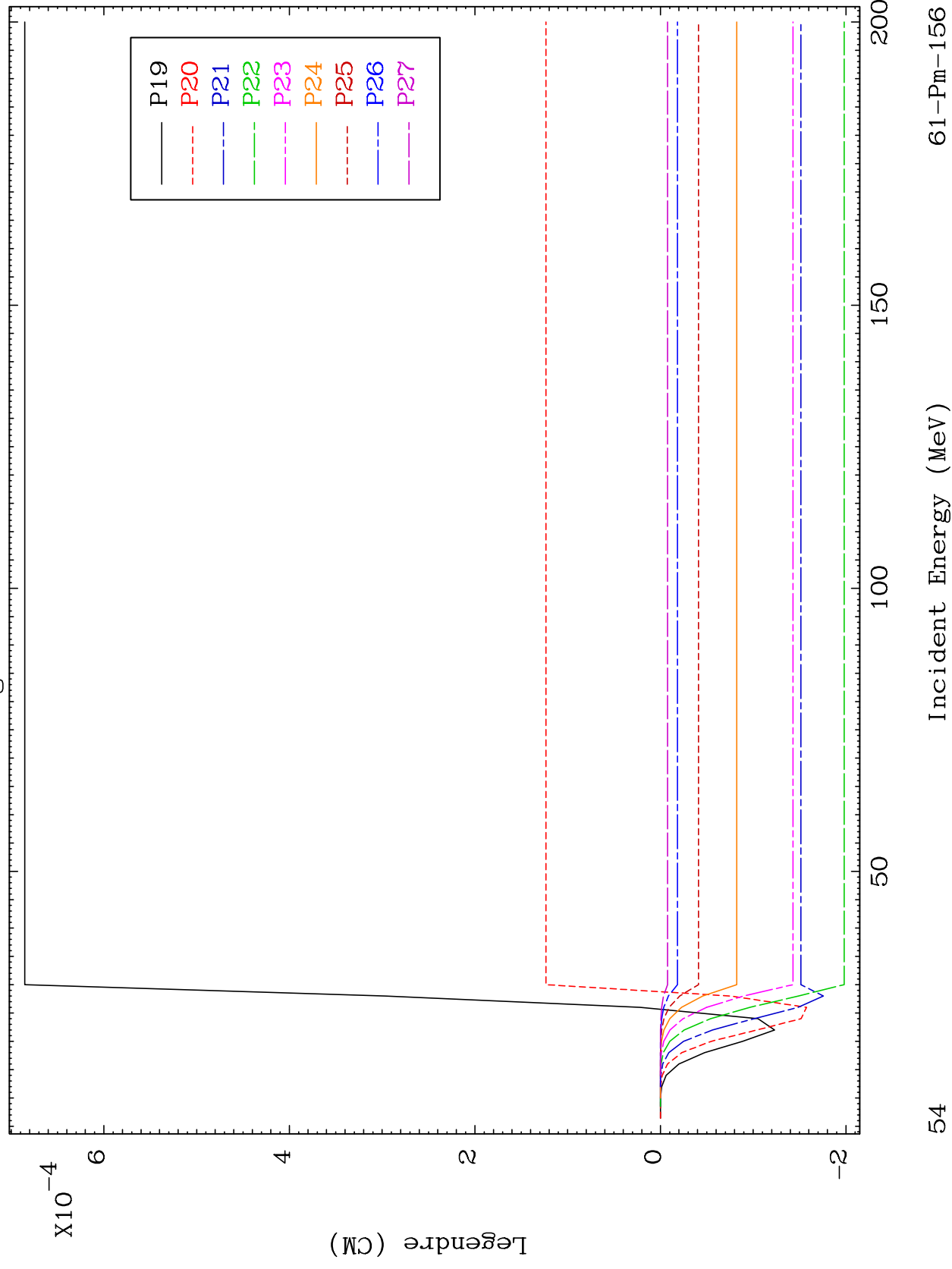
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



54

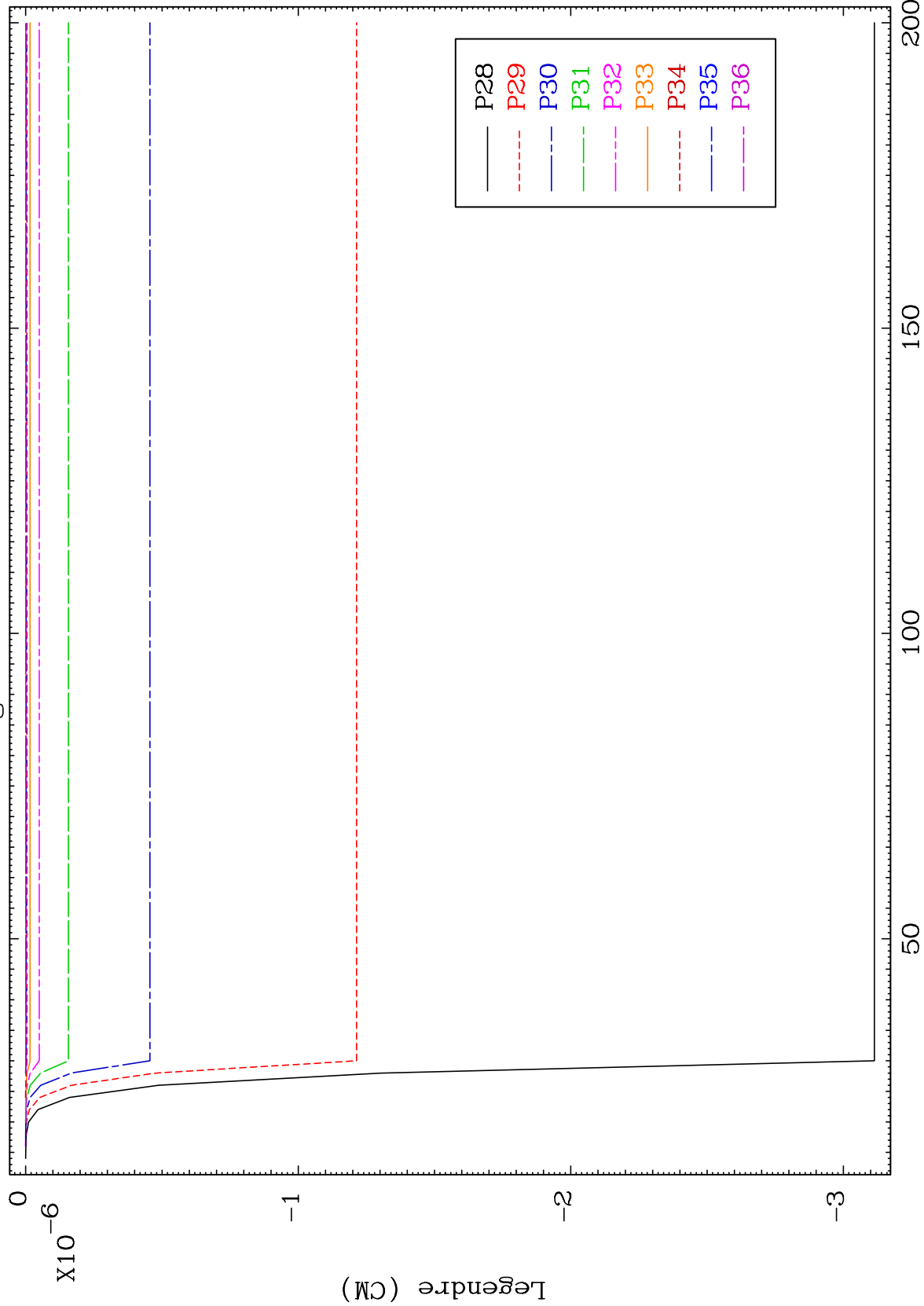
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



61-Pm-156

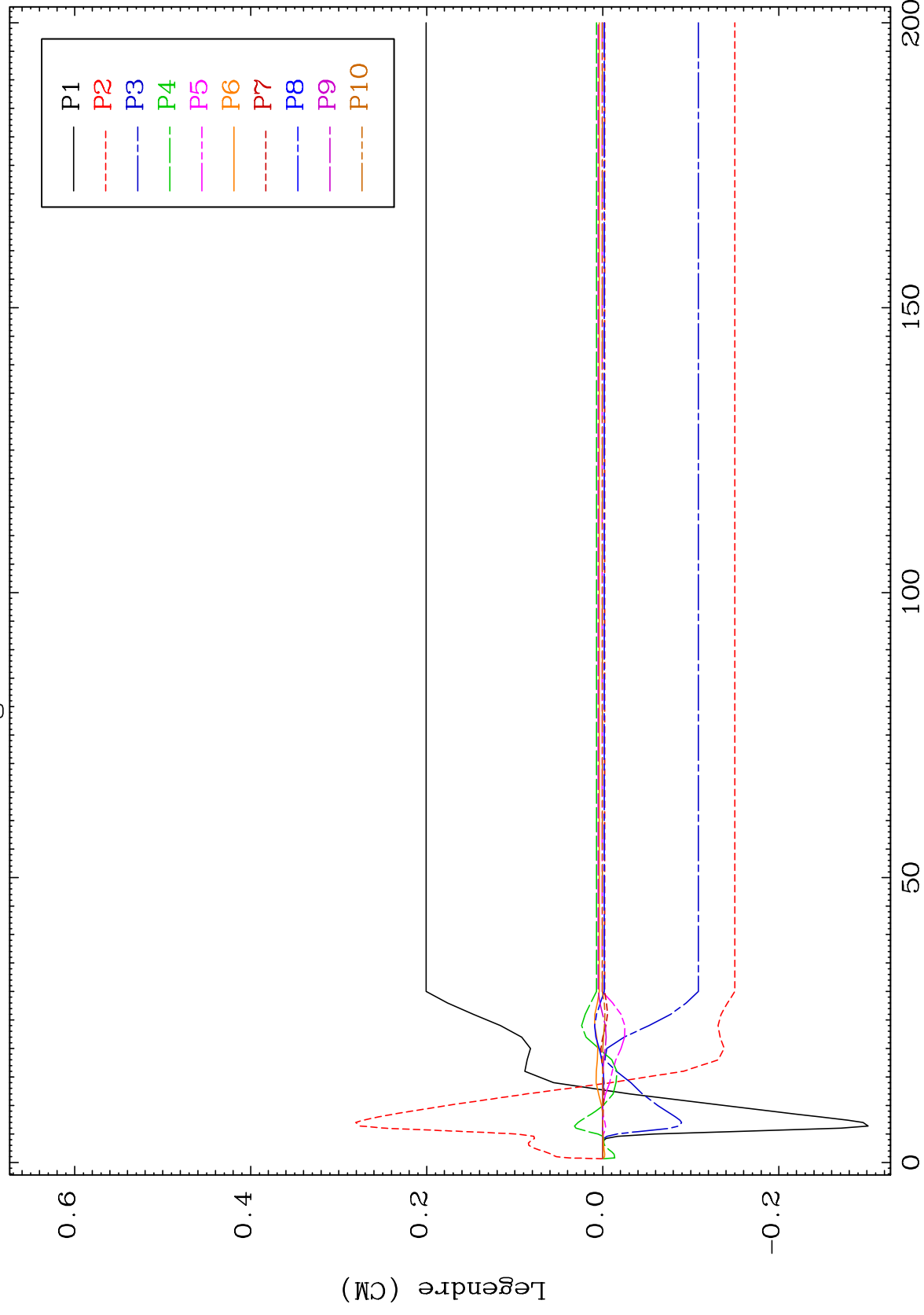
Incident Energy (MeV)

55

MAT 6176

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

61-Pm-156



56

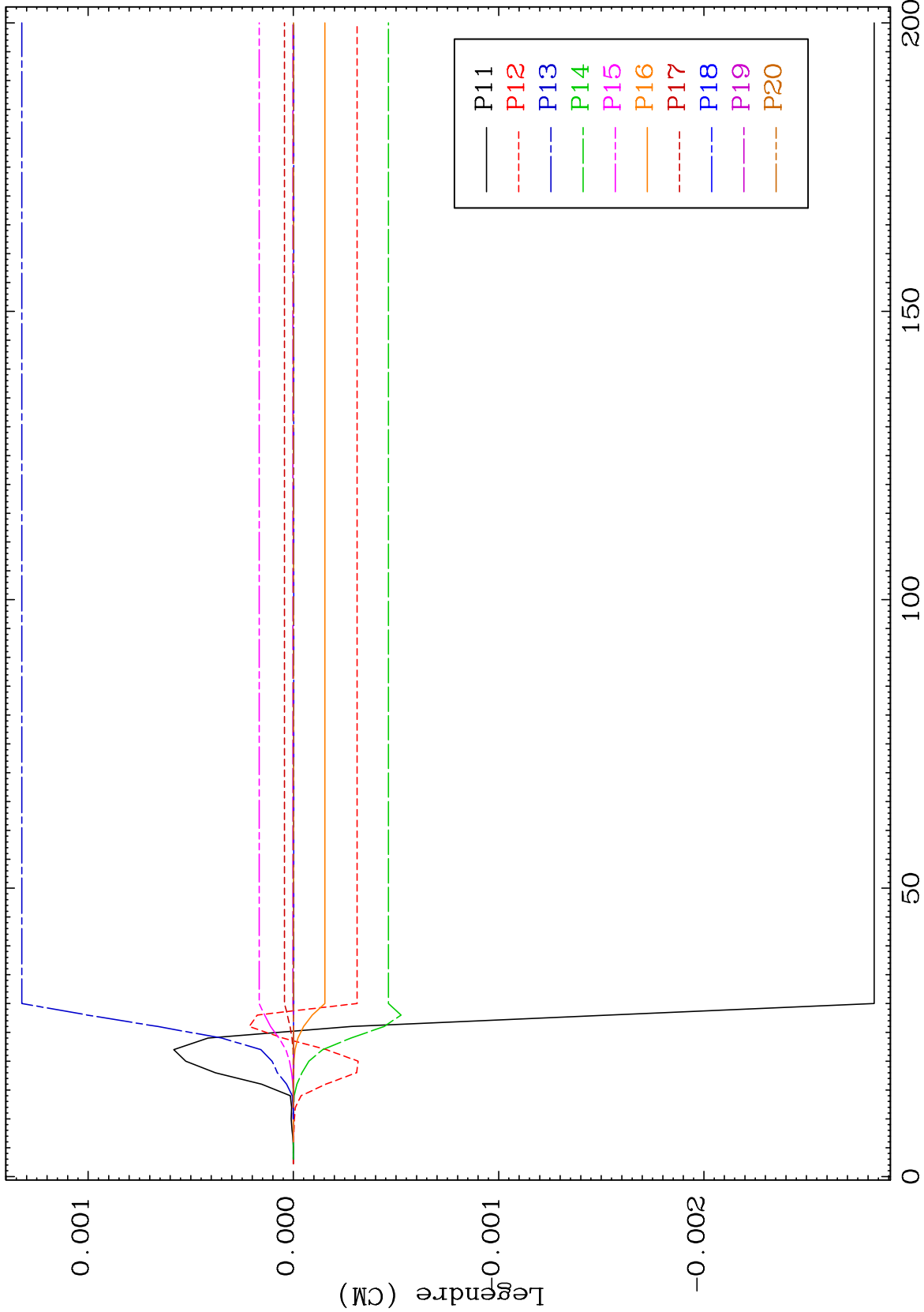
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



57

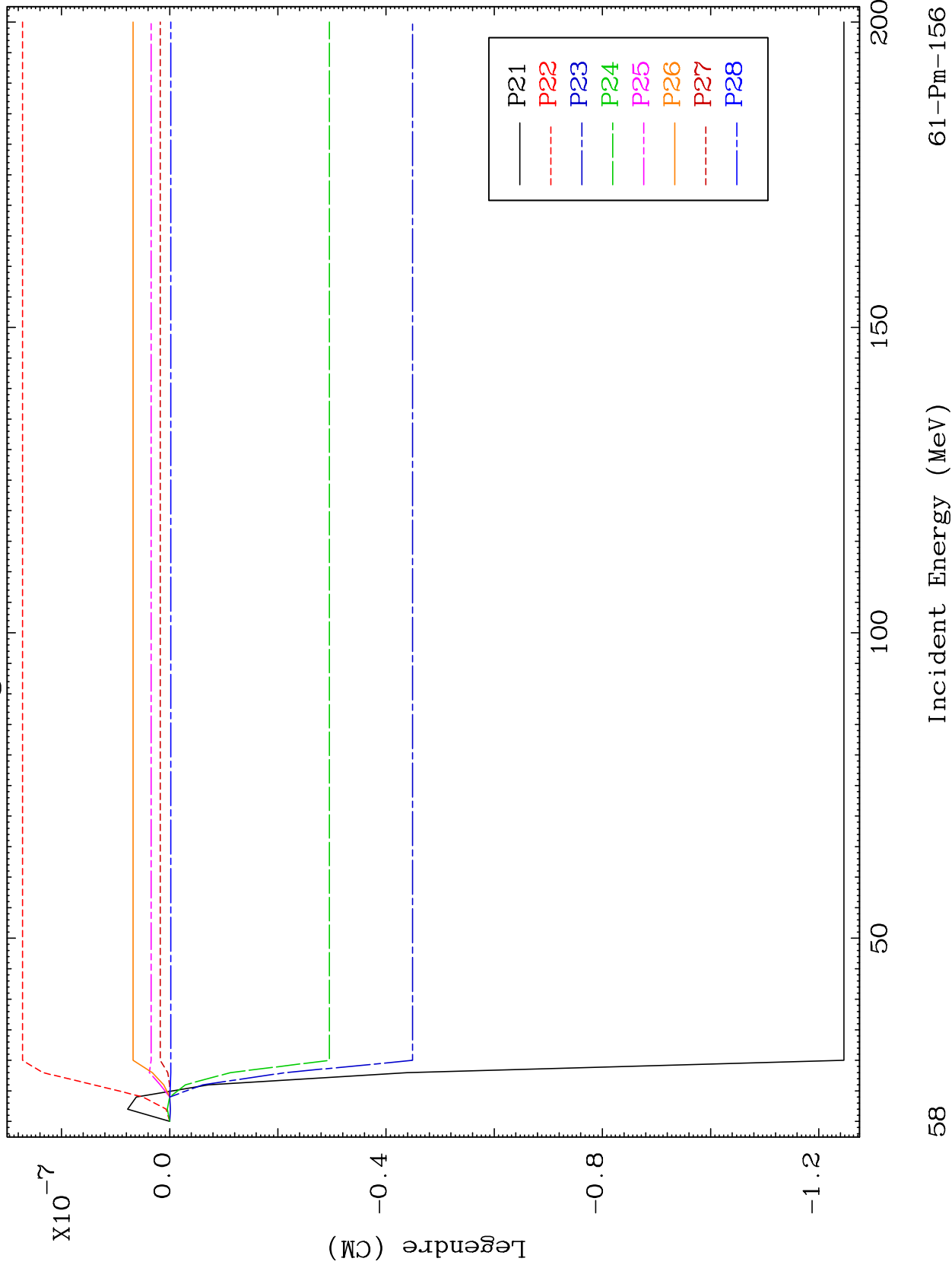
Incident Energy (MeV)

61-Pm-156

MAT 6176

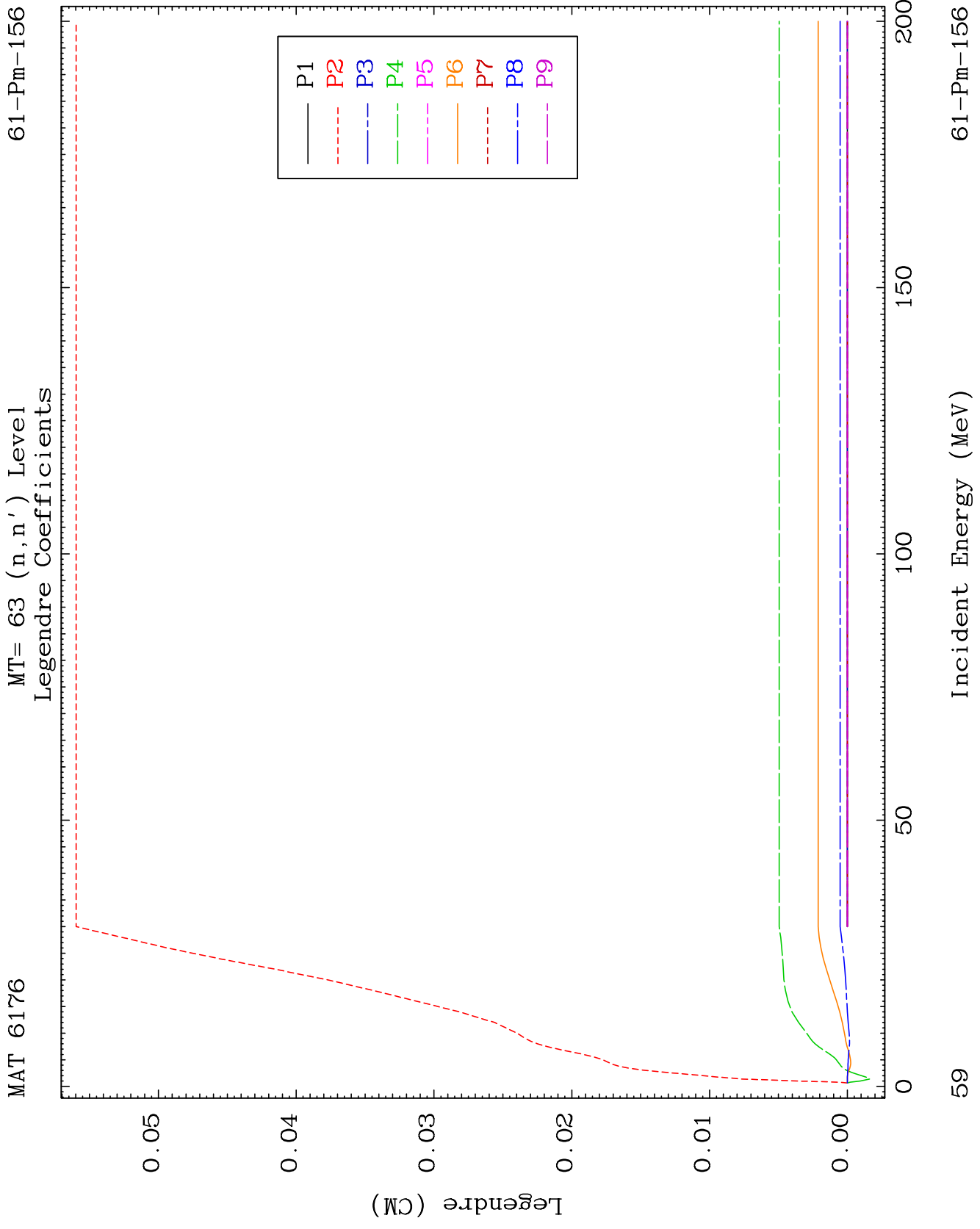
MT= 62 (n,n') Level  
Legendre Coefficients

61-Pm-156



58

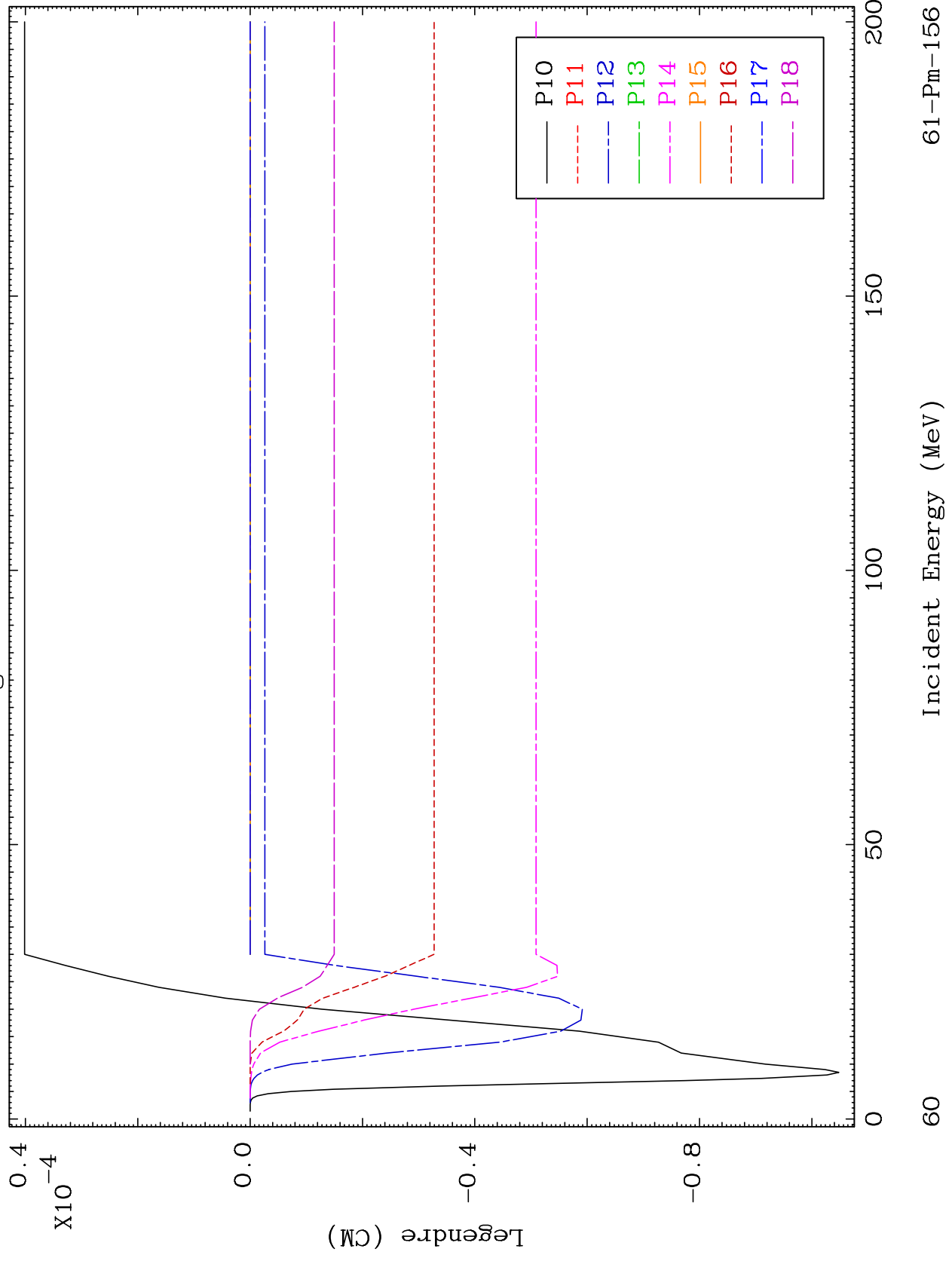
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MAT 6176

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

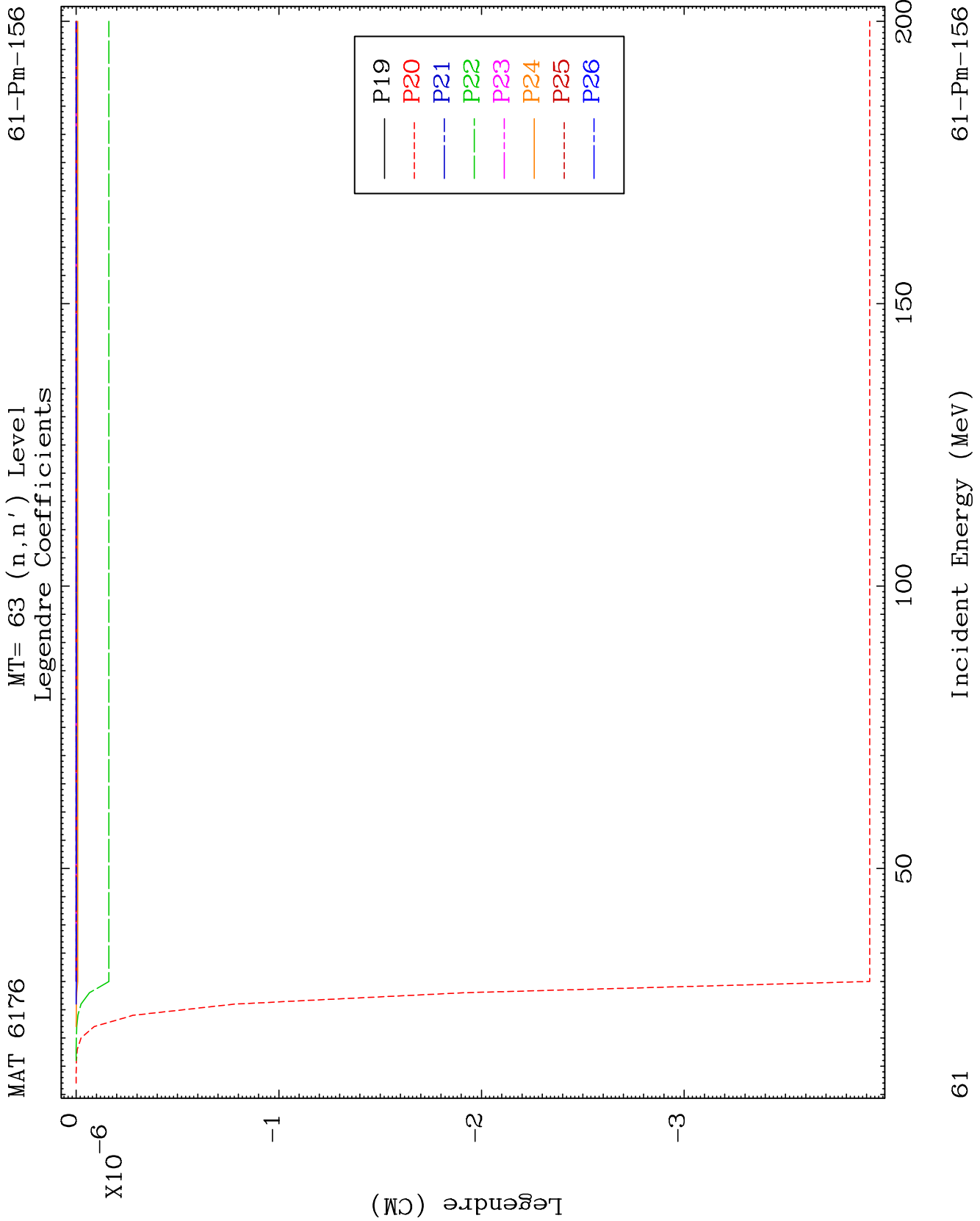
61-Pm-156



61-Pm-156

Incident Energy (MeV)

60



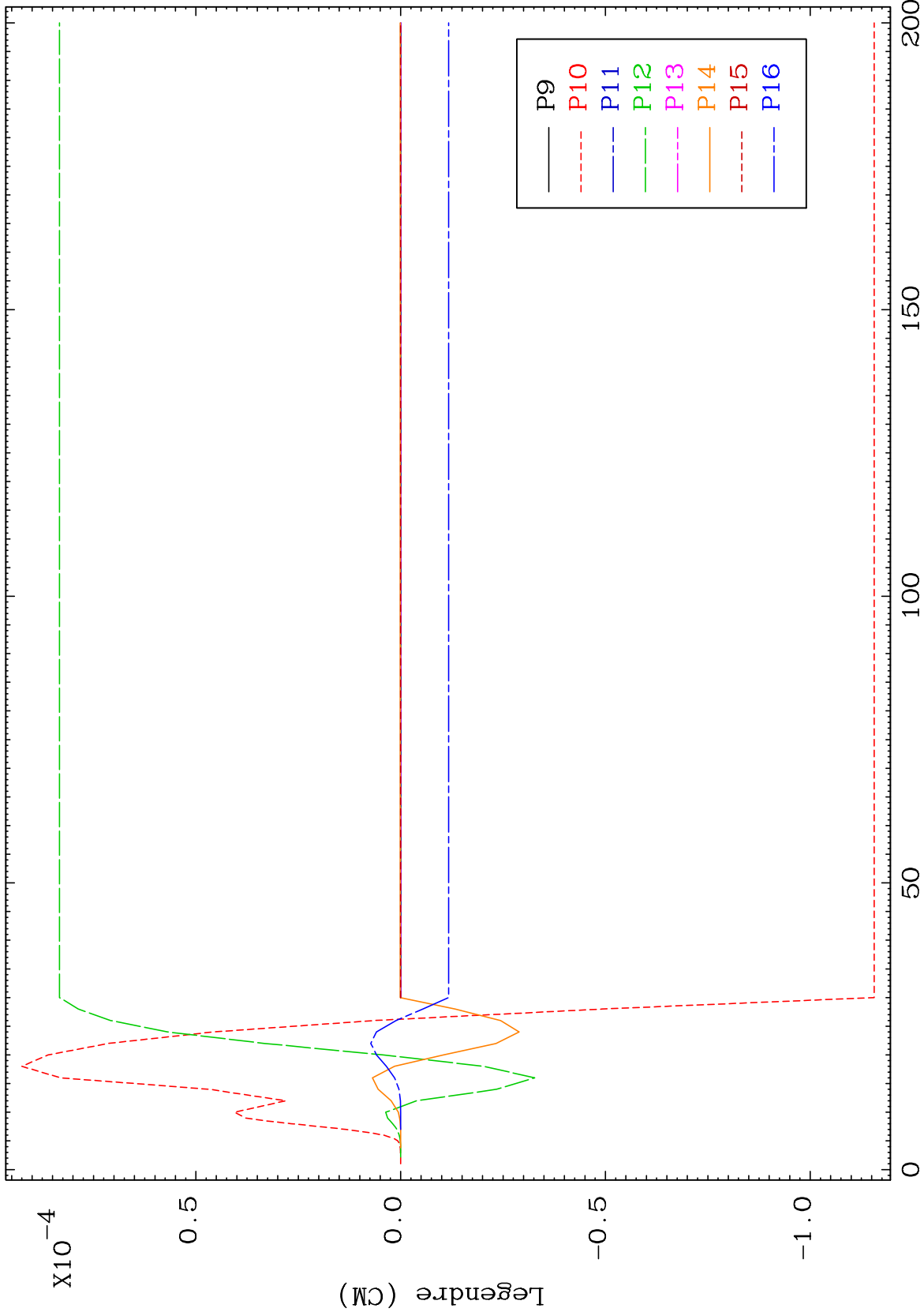


MAT 6176

MT= 64 (n,n') Level

61-Pm-156

Legendre Coefficients

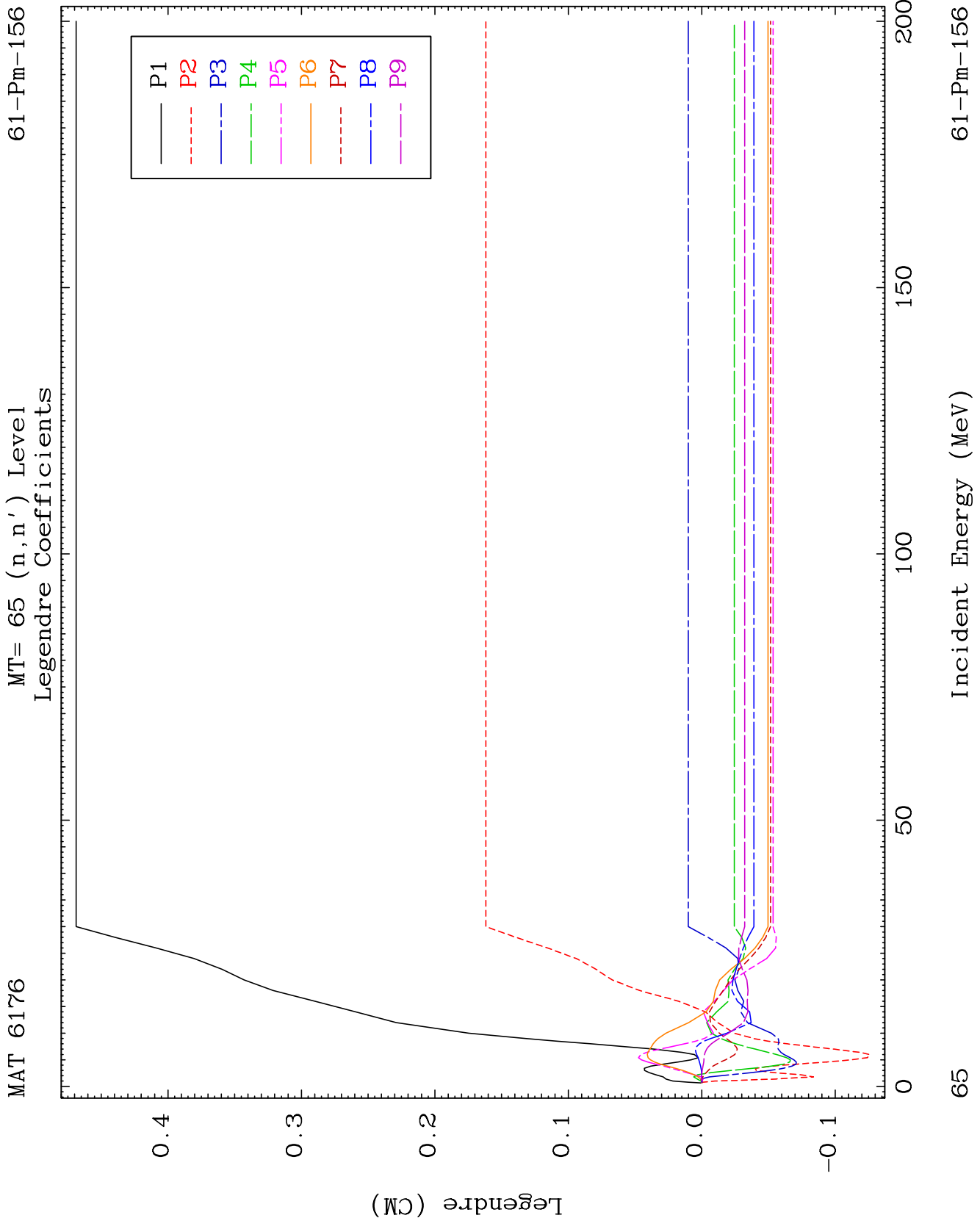


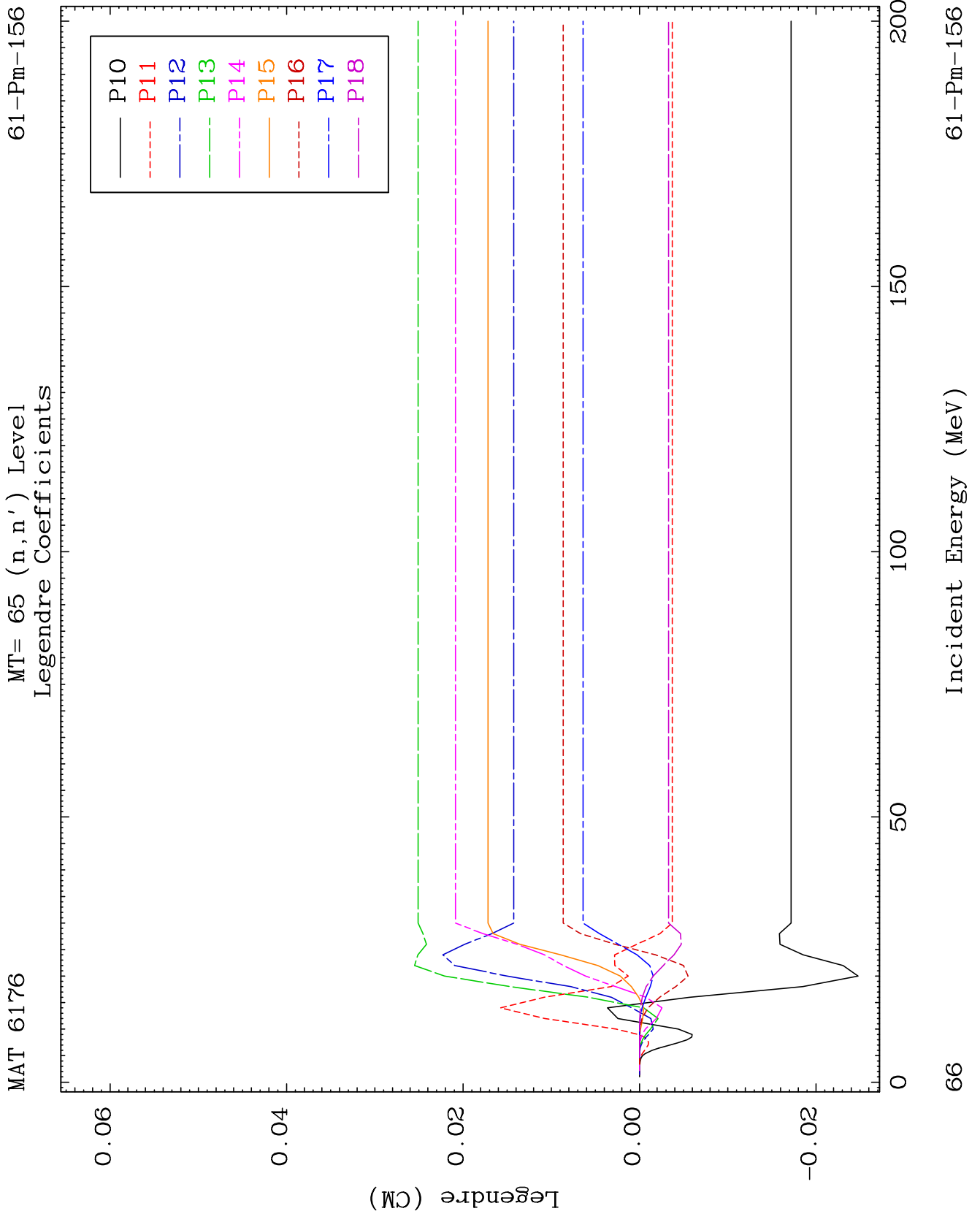
63

Incident Energy (MeV)

61-Pm-156



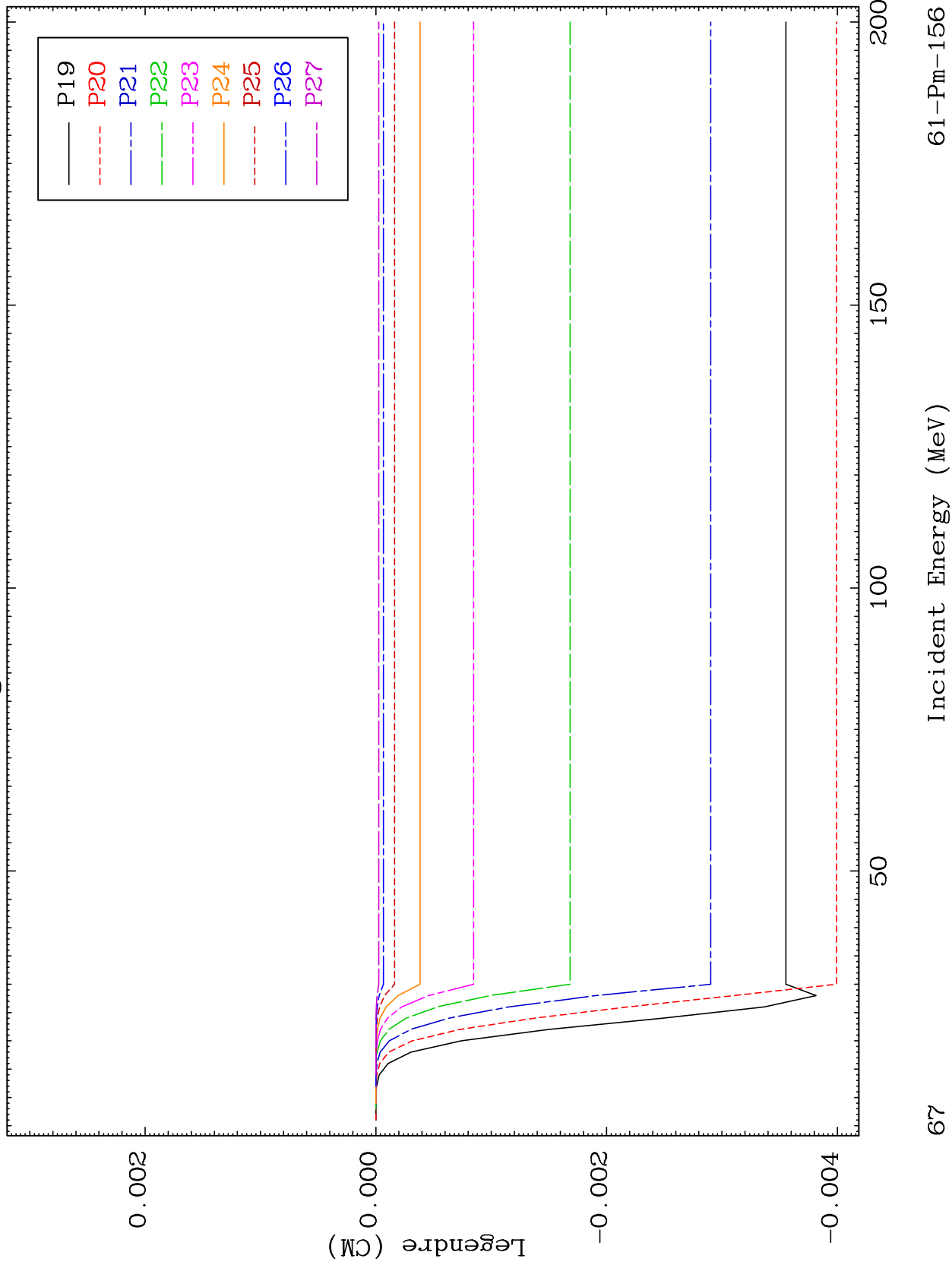




MAT 6176

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

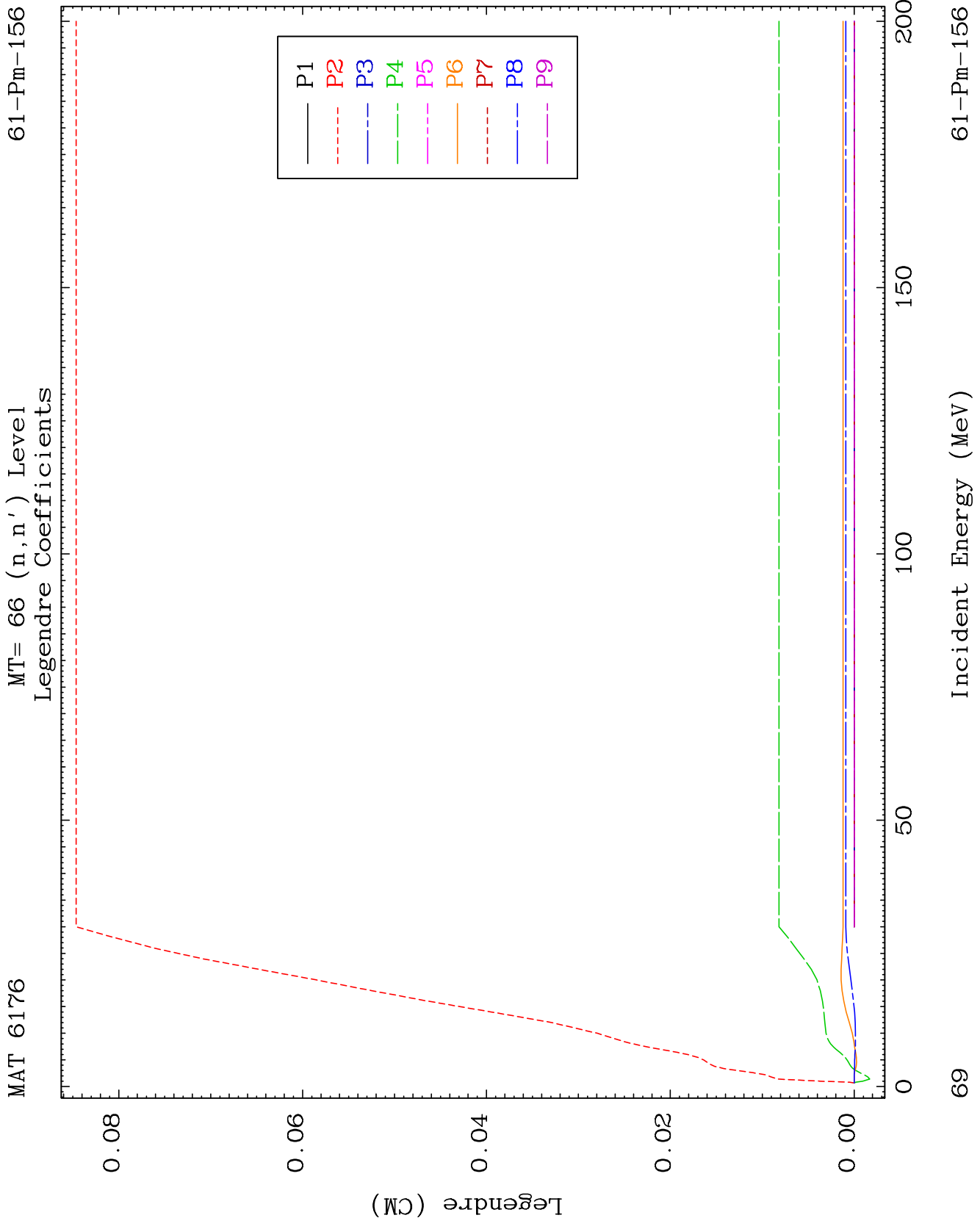
61-Pm-156



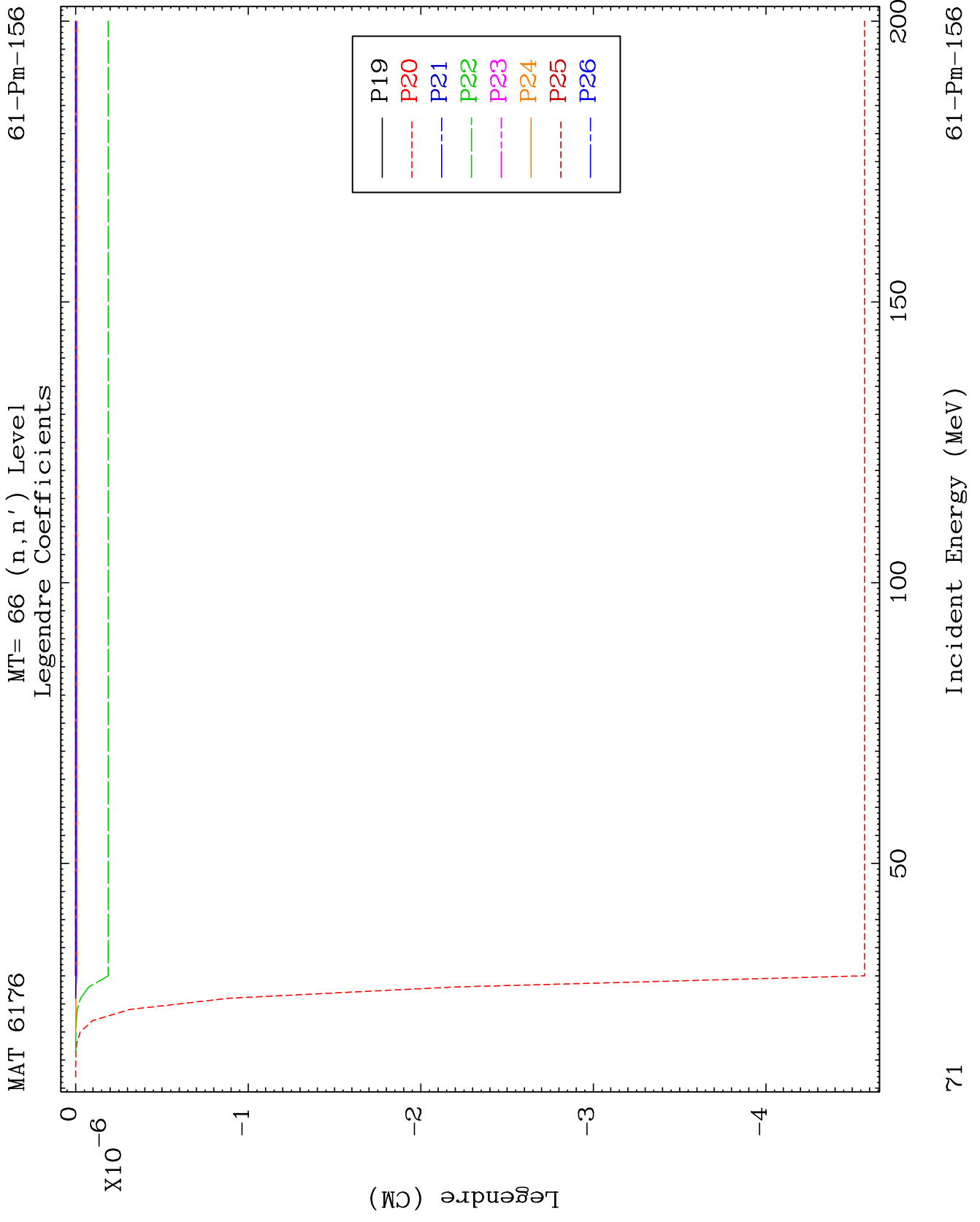
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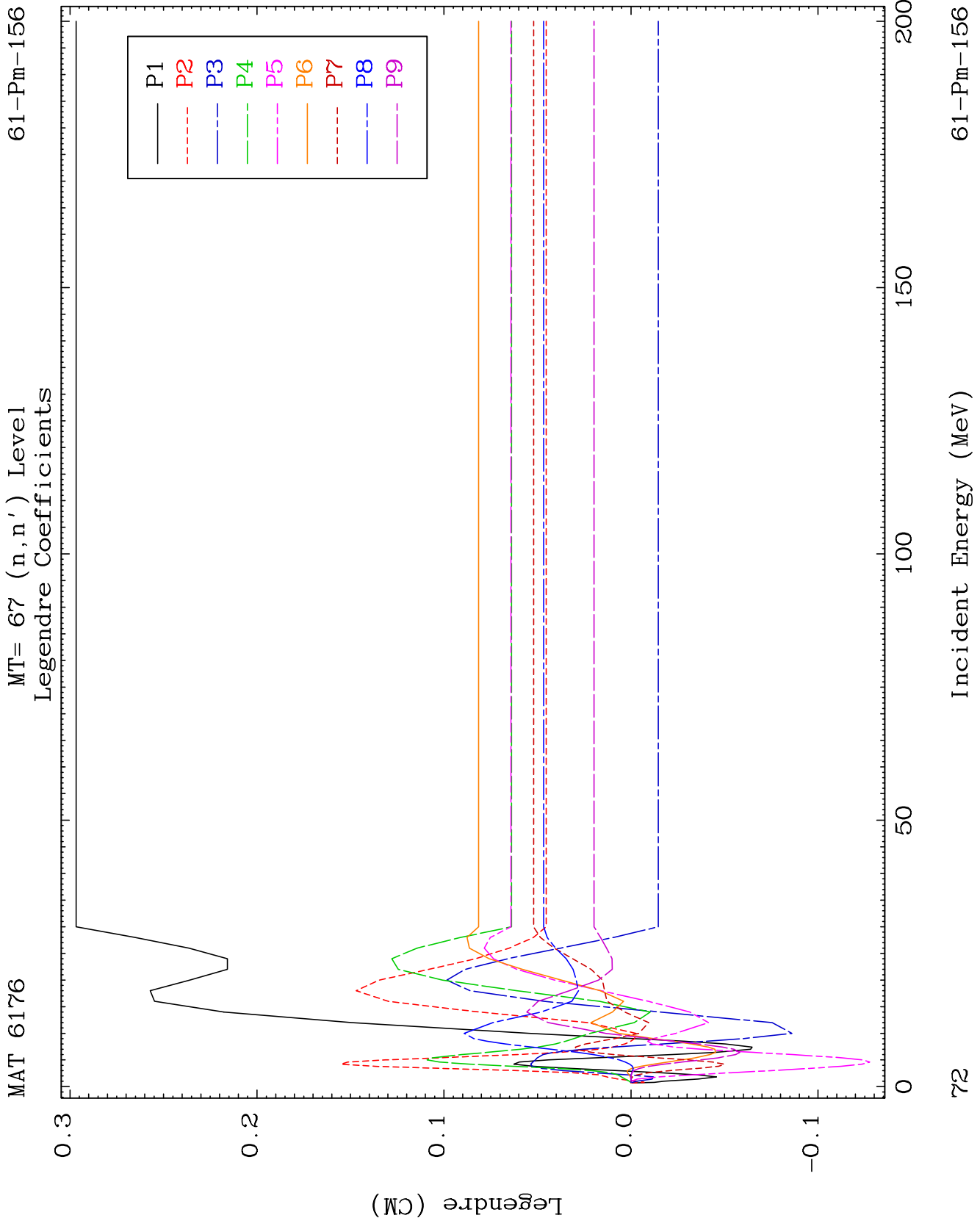
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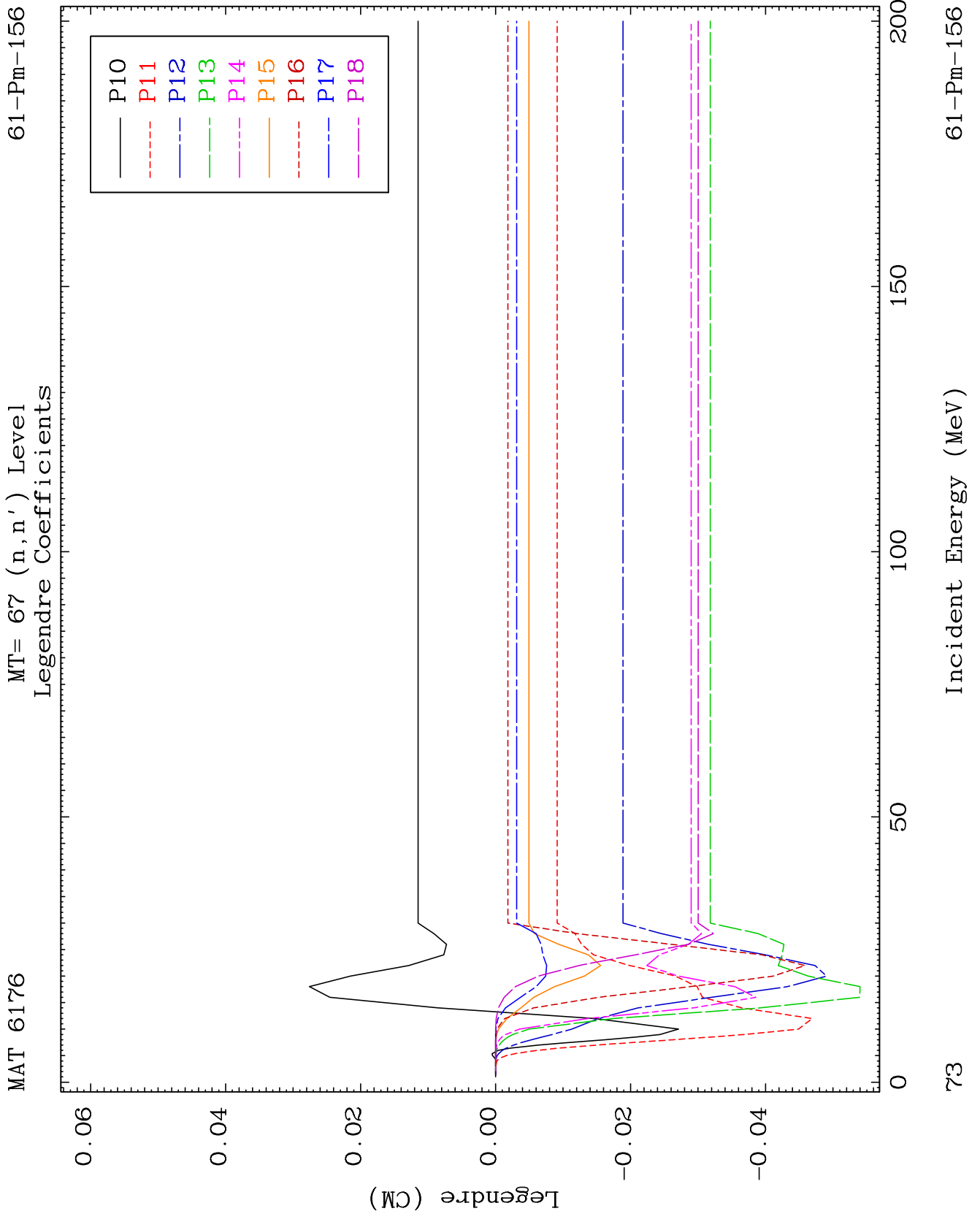








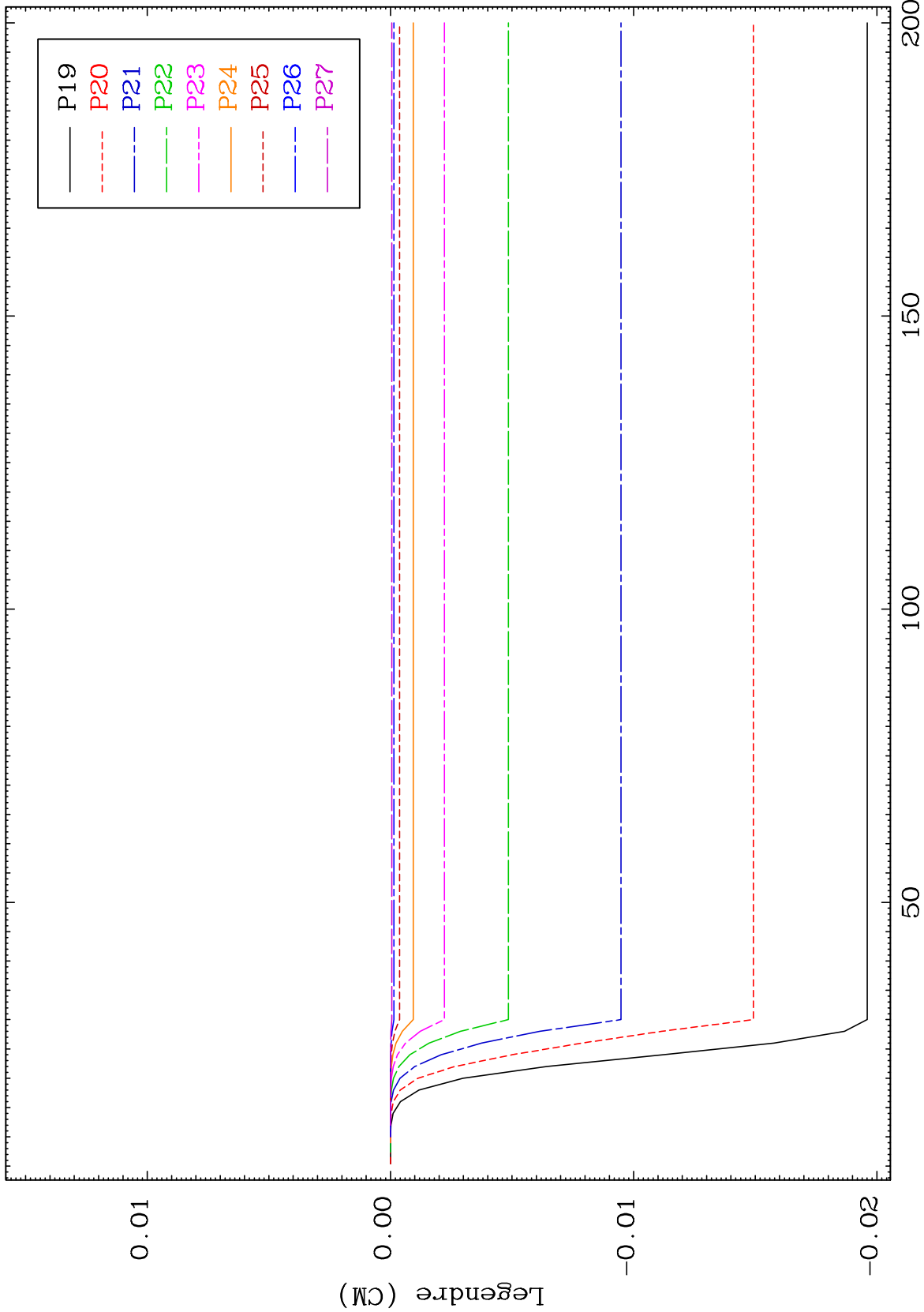




MAT 6176

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

61-Pm-156



74

Incident Energy (MeV)

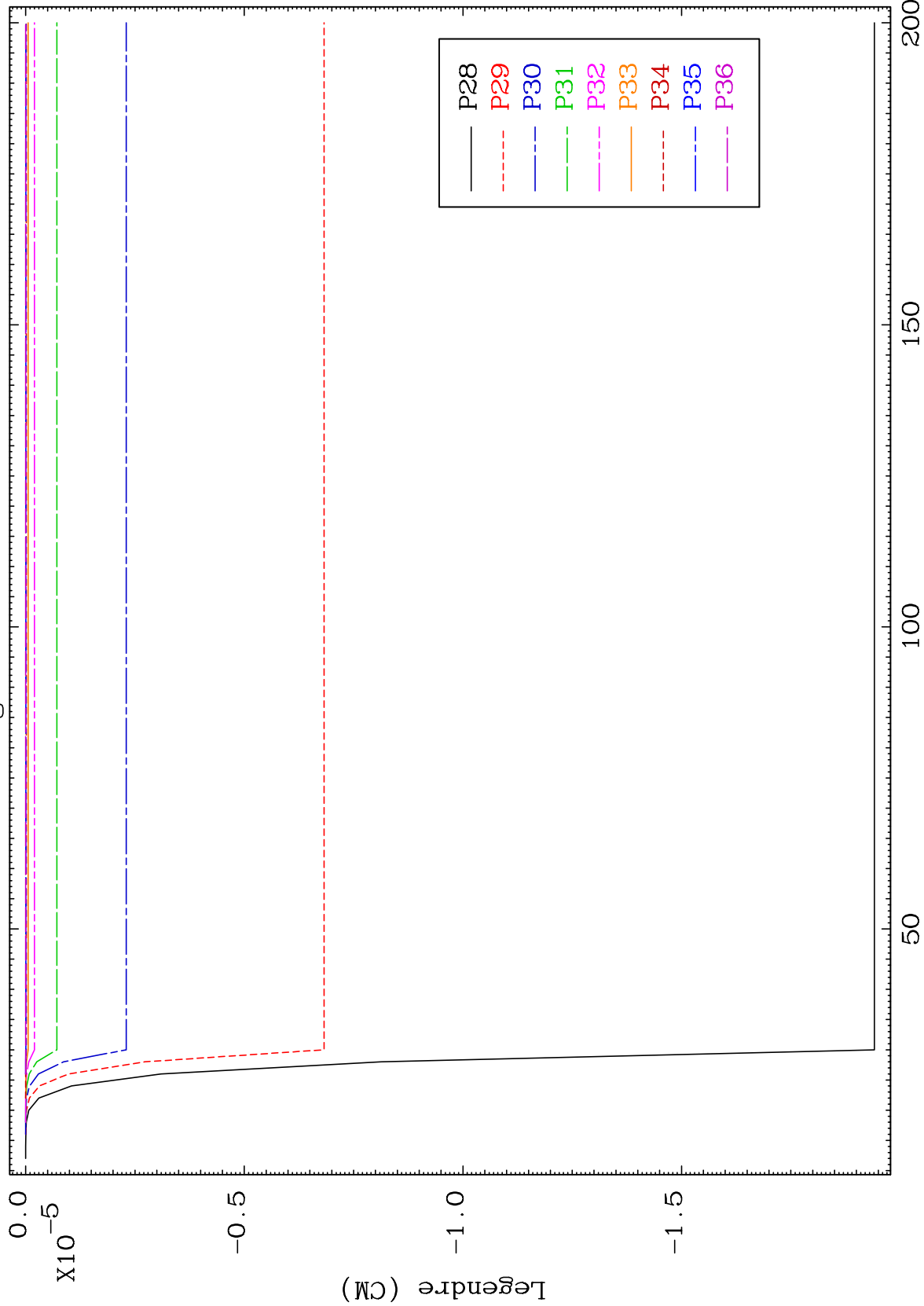
61-Pm-156

MAT 6176

MT= 67 (n,n') Level

61-Pm-156

Legendre Coefficients



61-Pm-156

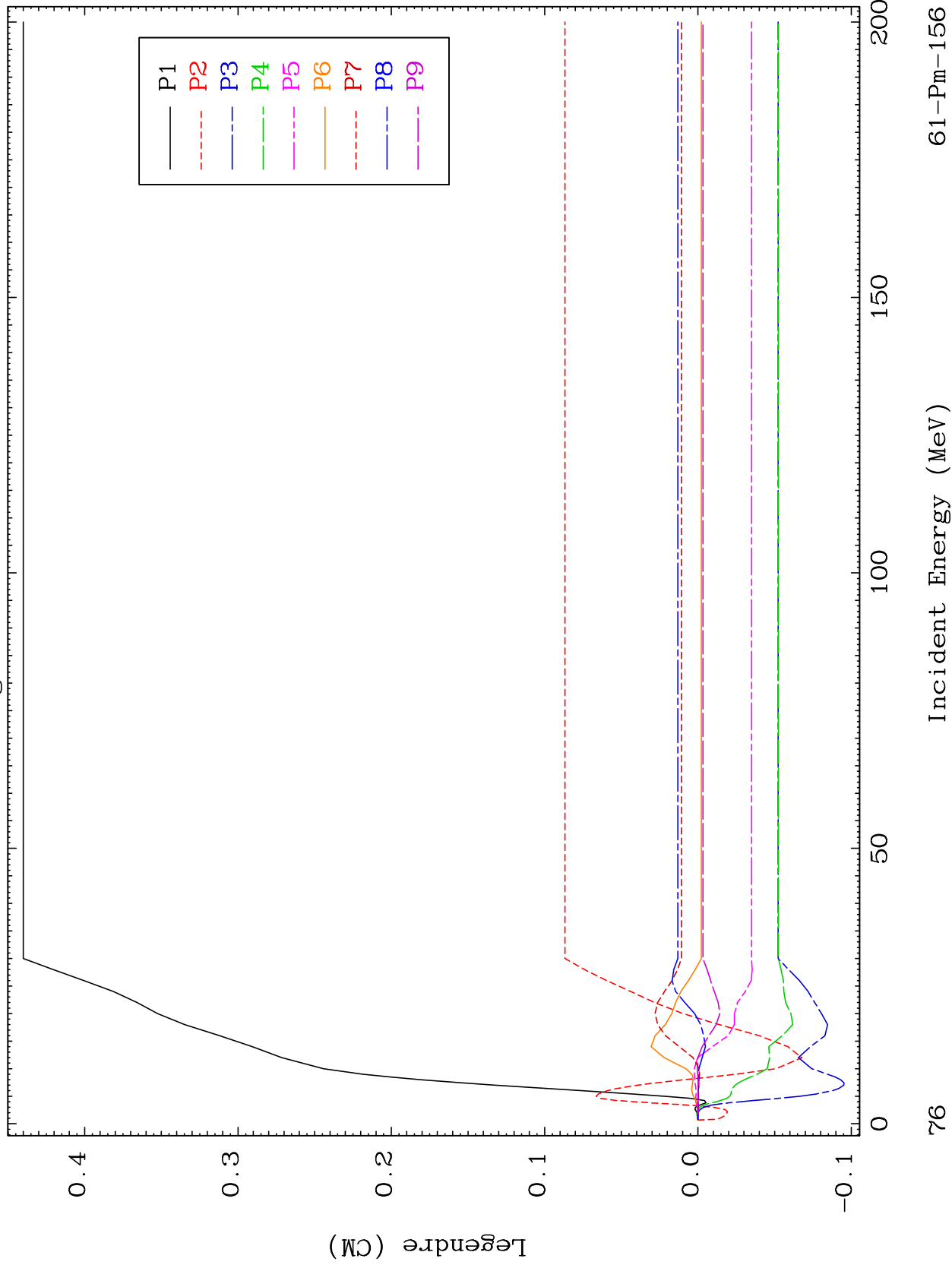
Incident Energy (MeV)

75

MAT 6176

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

61-Pm-156



61-Pm-156

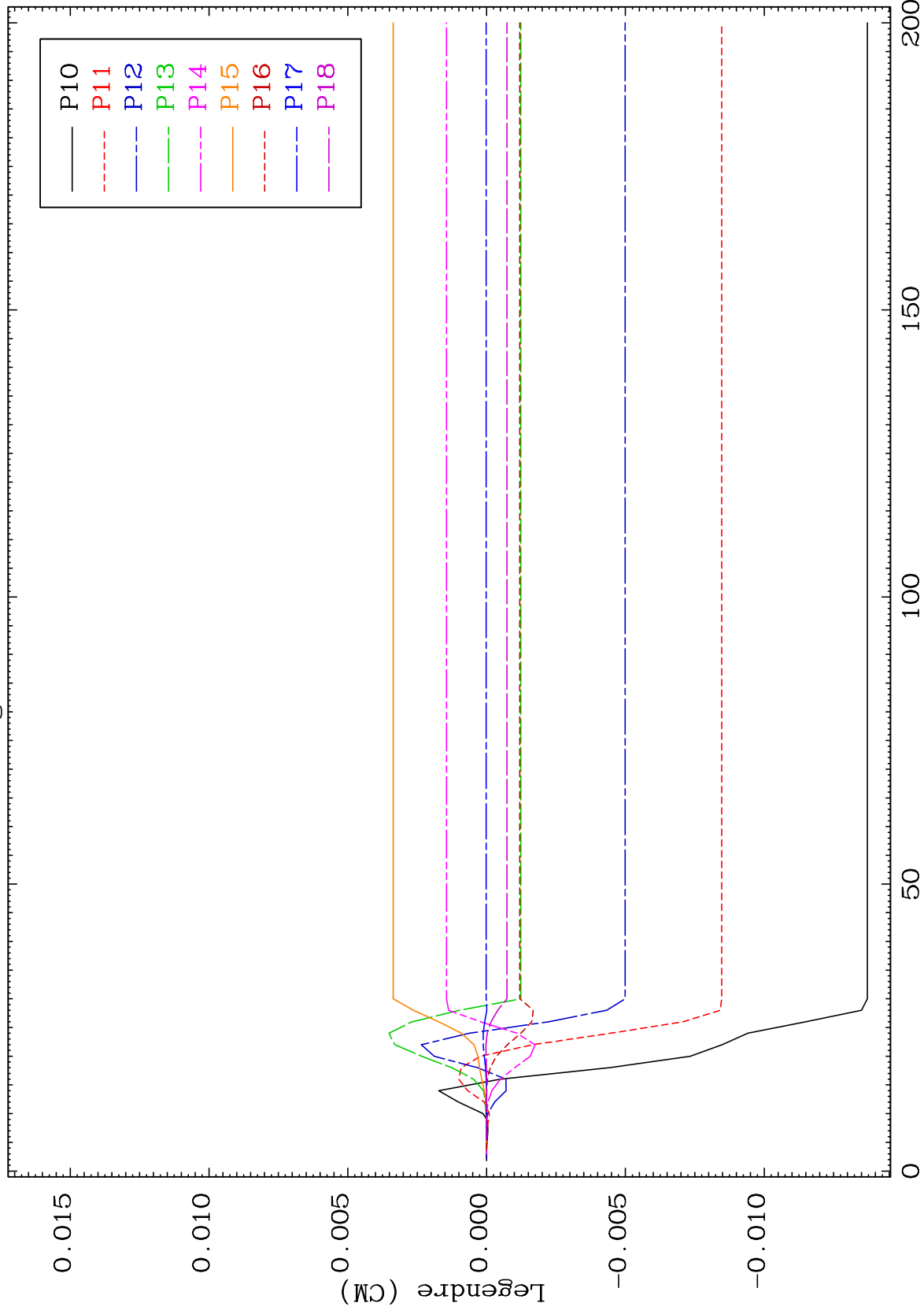
Incident Energy (MeV)

76

MAT 6176

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

61-Pm-156



77

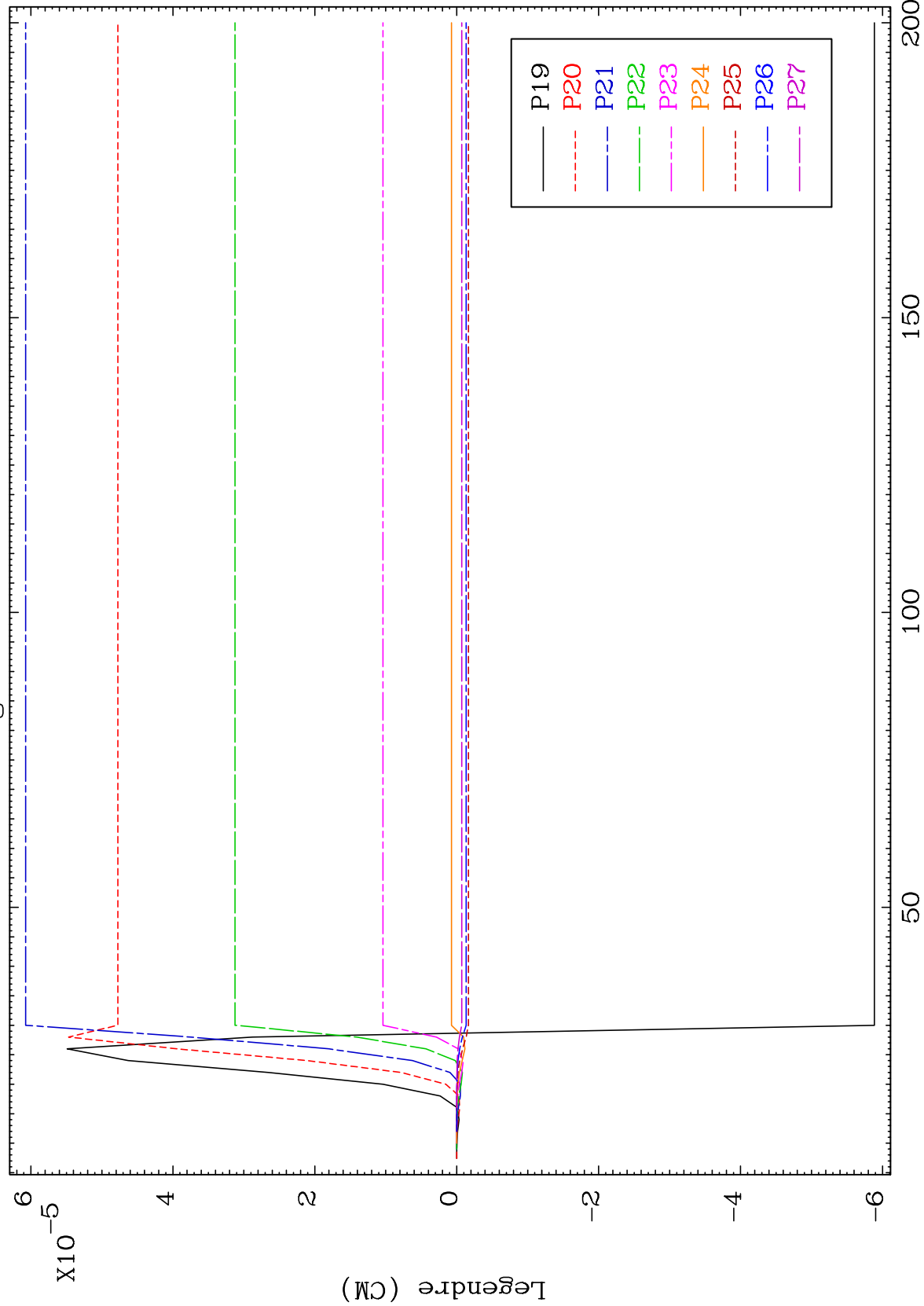
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

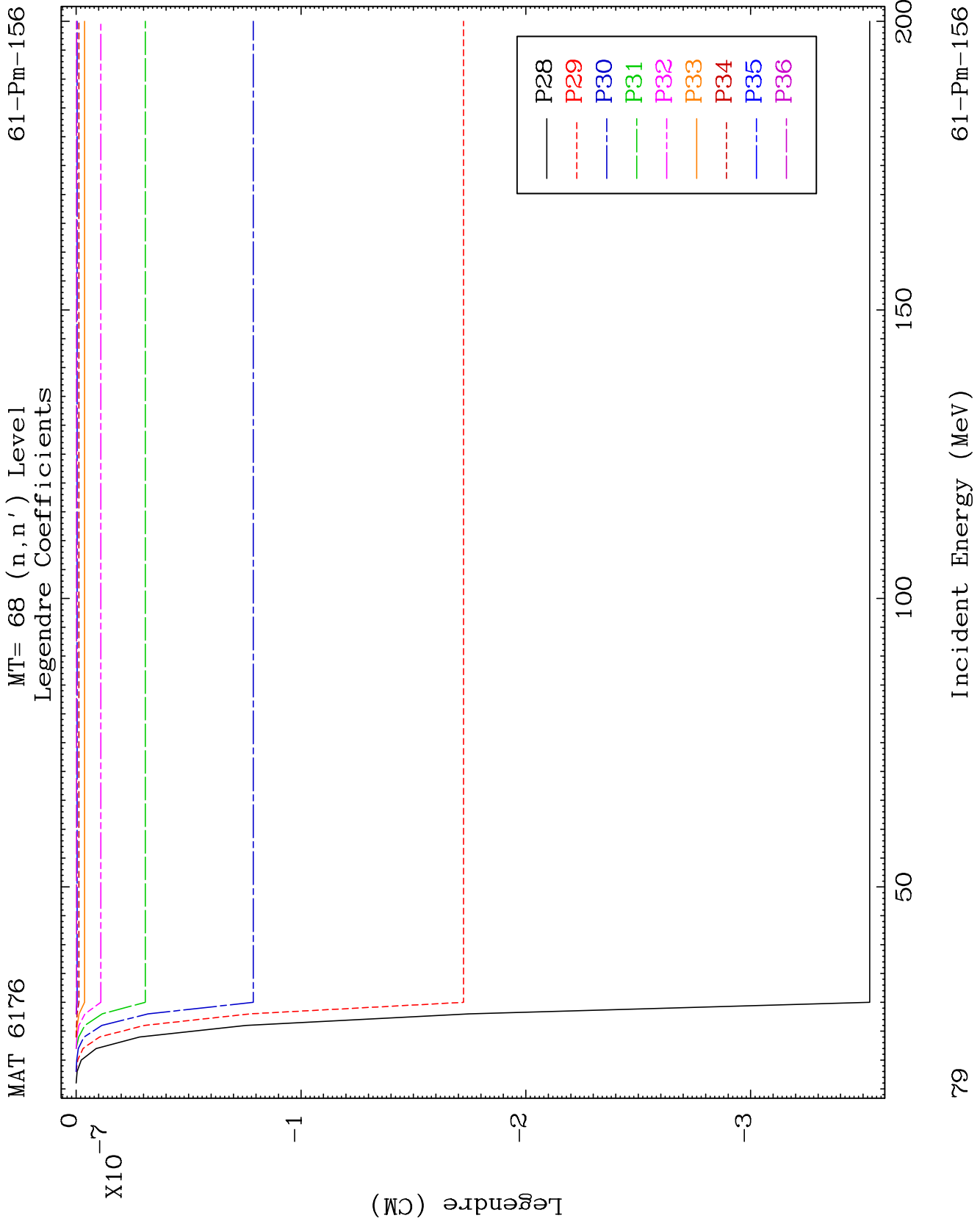
61-Pm-156



78

Incident Energy (MeV)

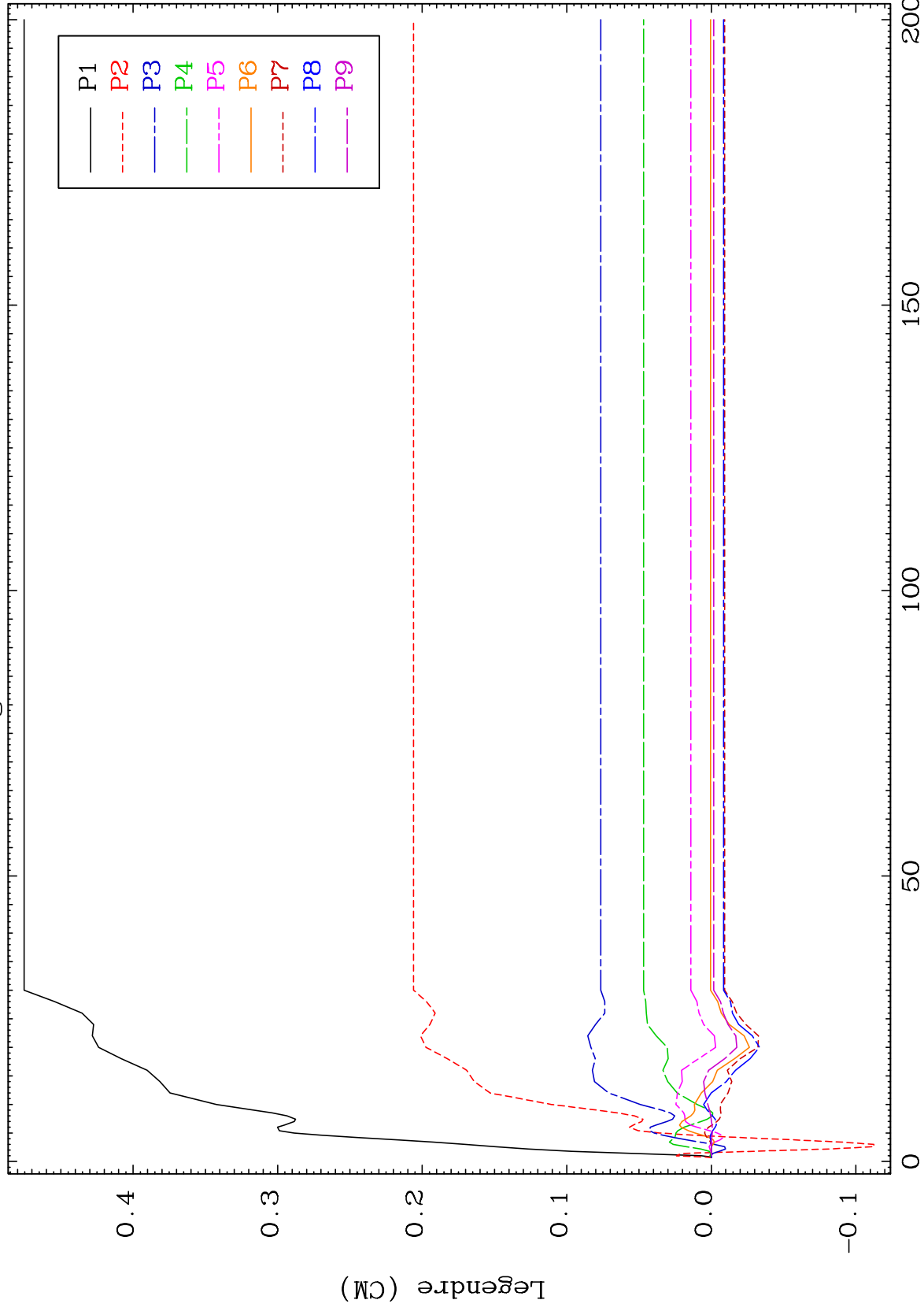
61-Pm-156



MAT 6176

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

61-Pm-156



61-Pm-156

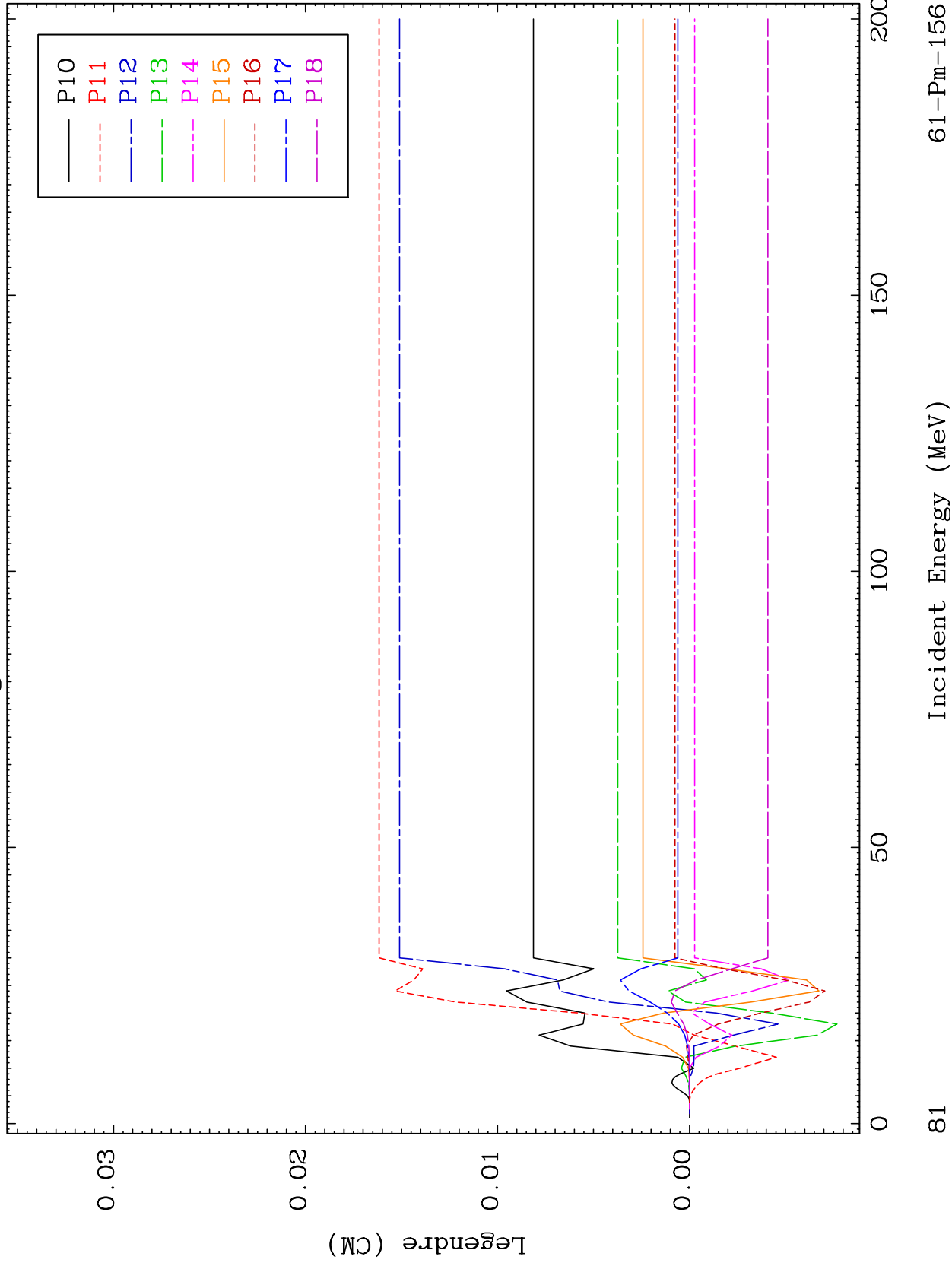
Incident Energy (MeV)

80

MAT 6176

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

61-Pm-156



61-Pm-156

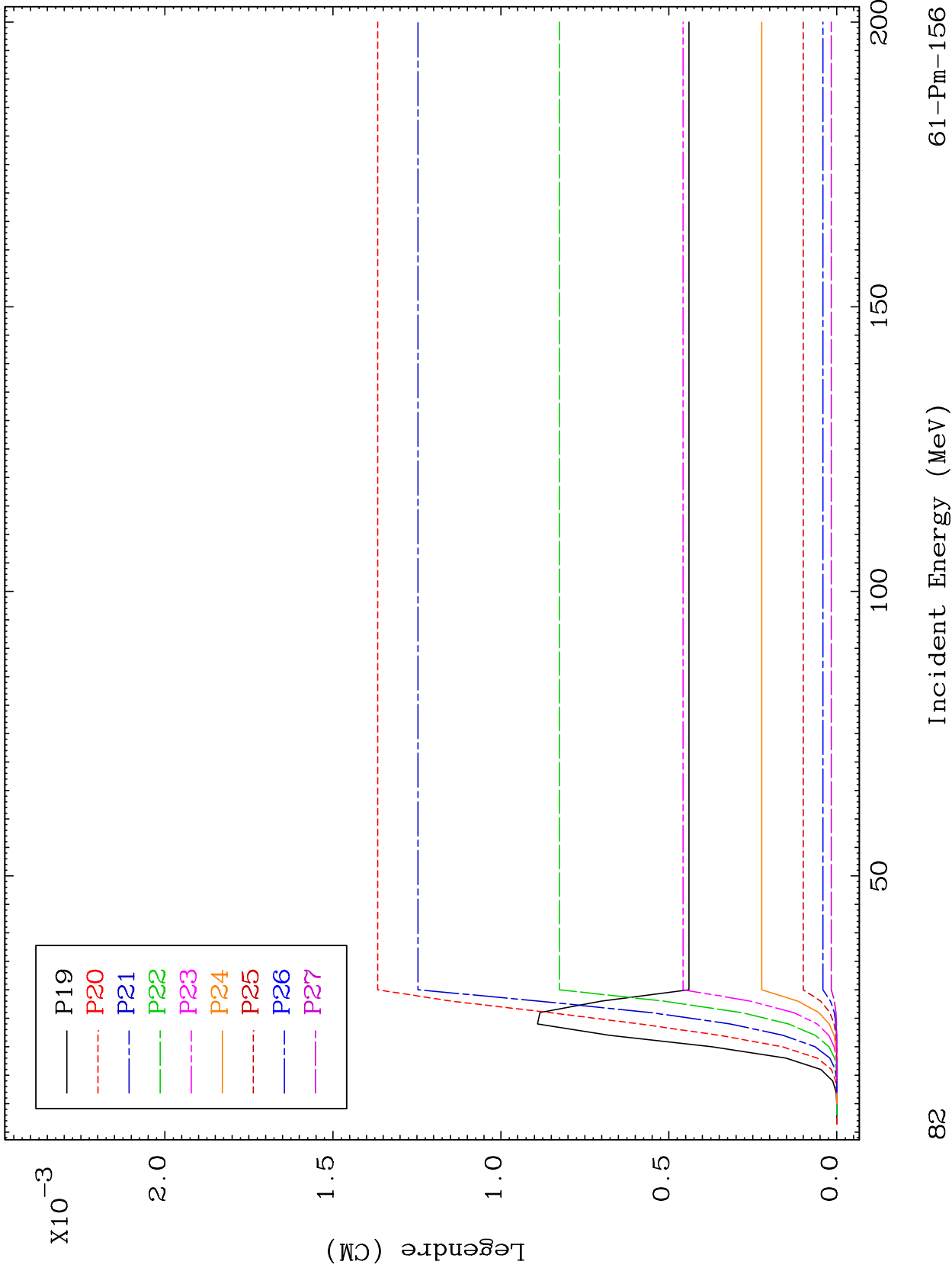
Incident Energy (MeV)

81

MAT 6176

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

61-Pm-156



82

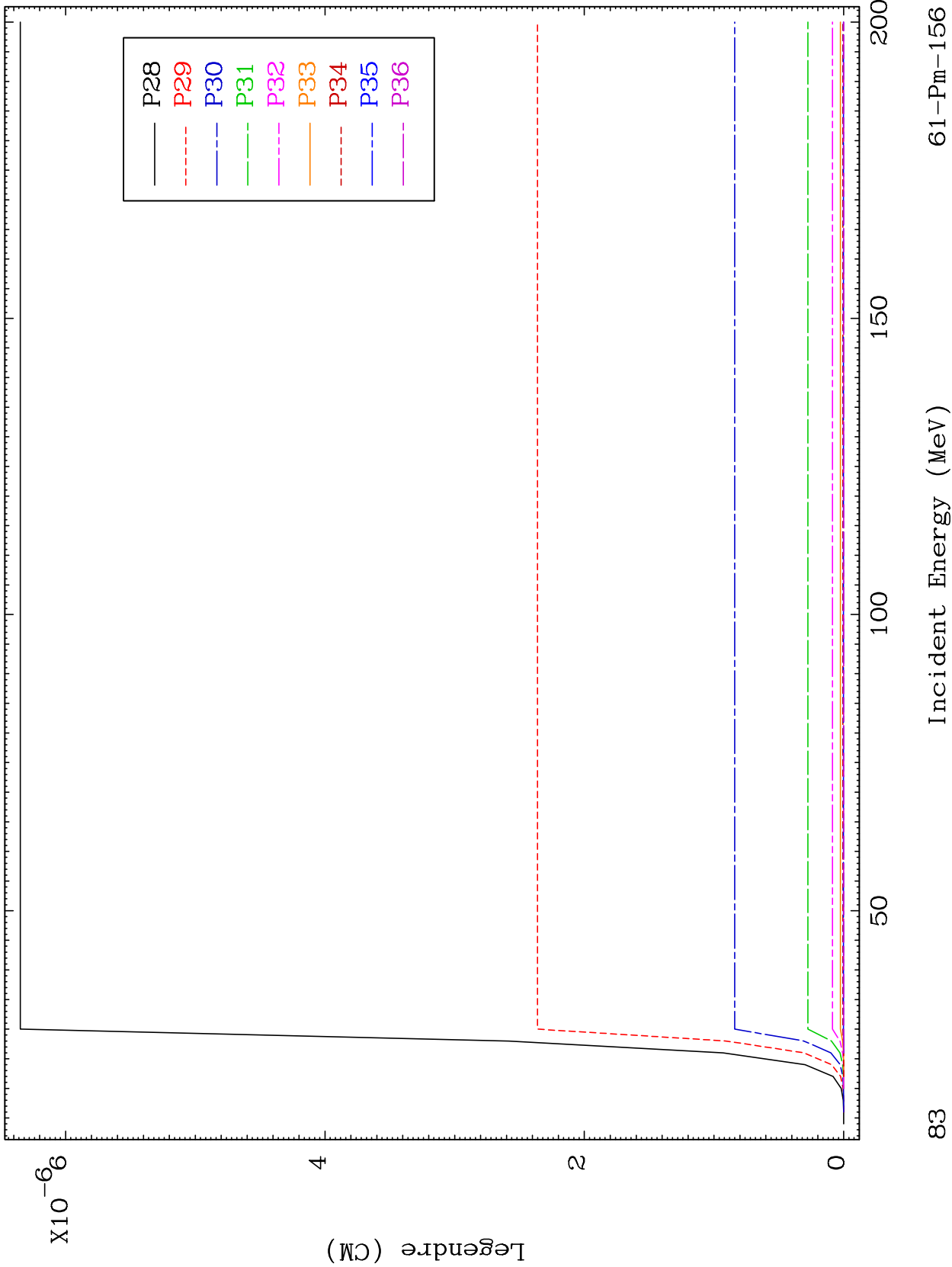
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



83

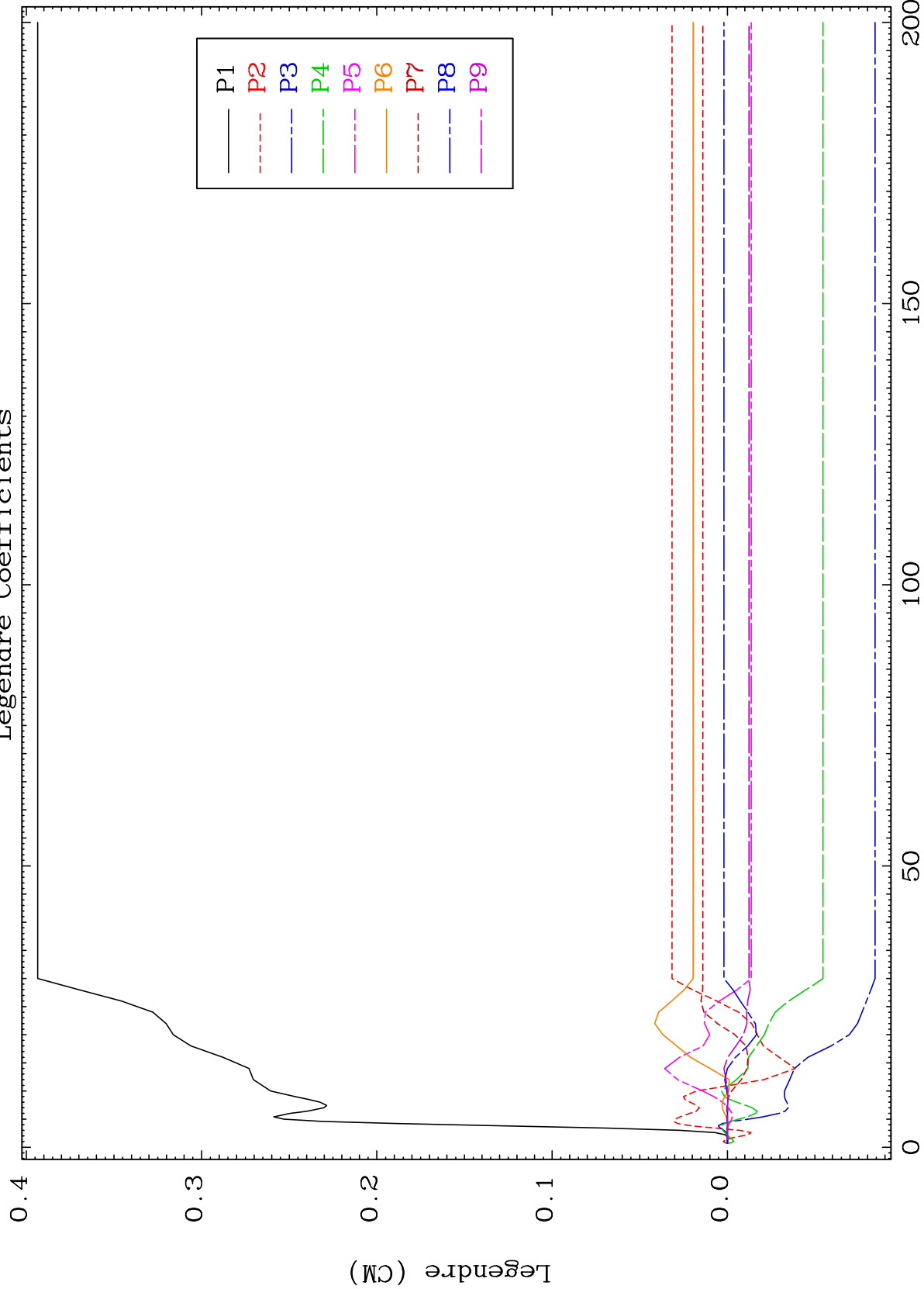
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156

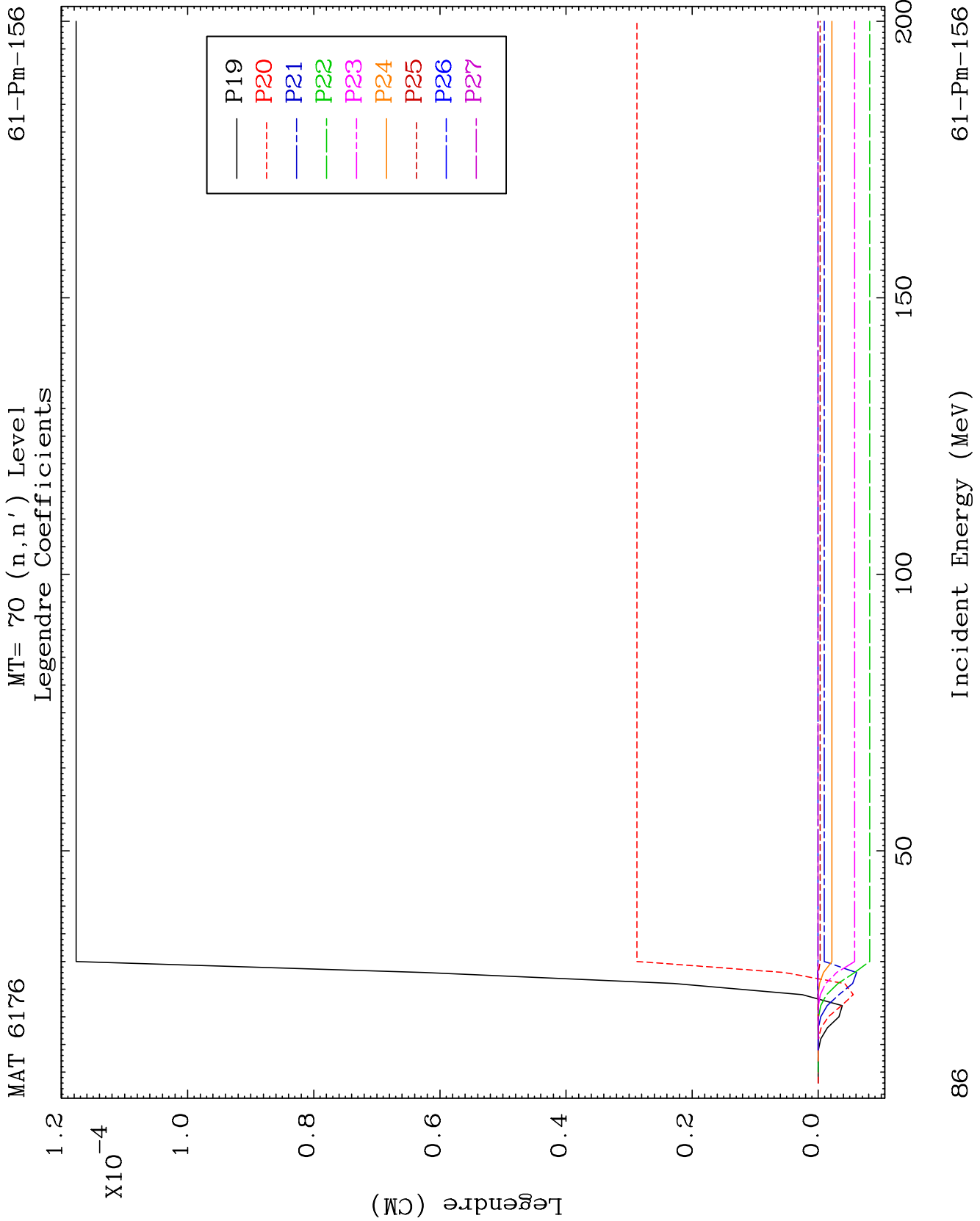


84

Incident Energy (MeV)

61-Pm-156

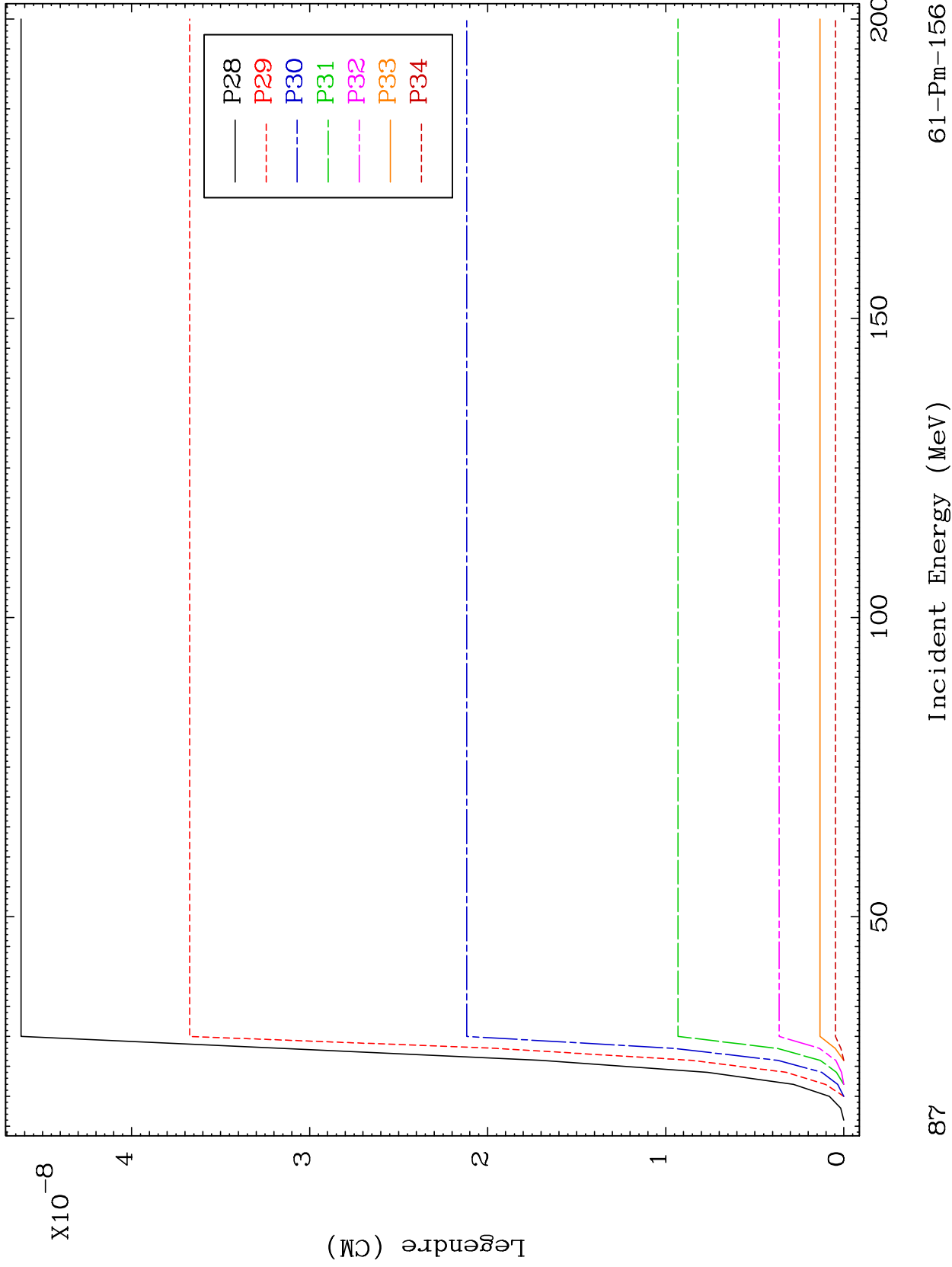




MAT 6176

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

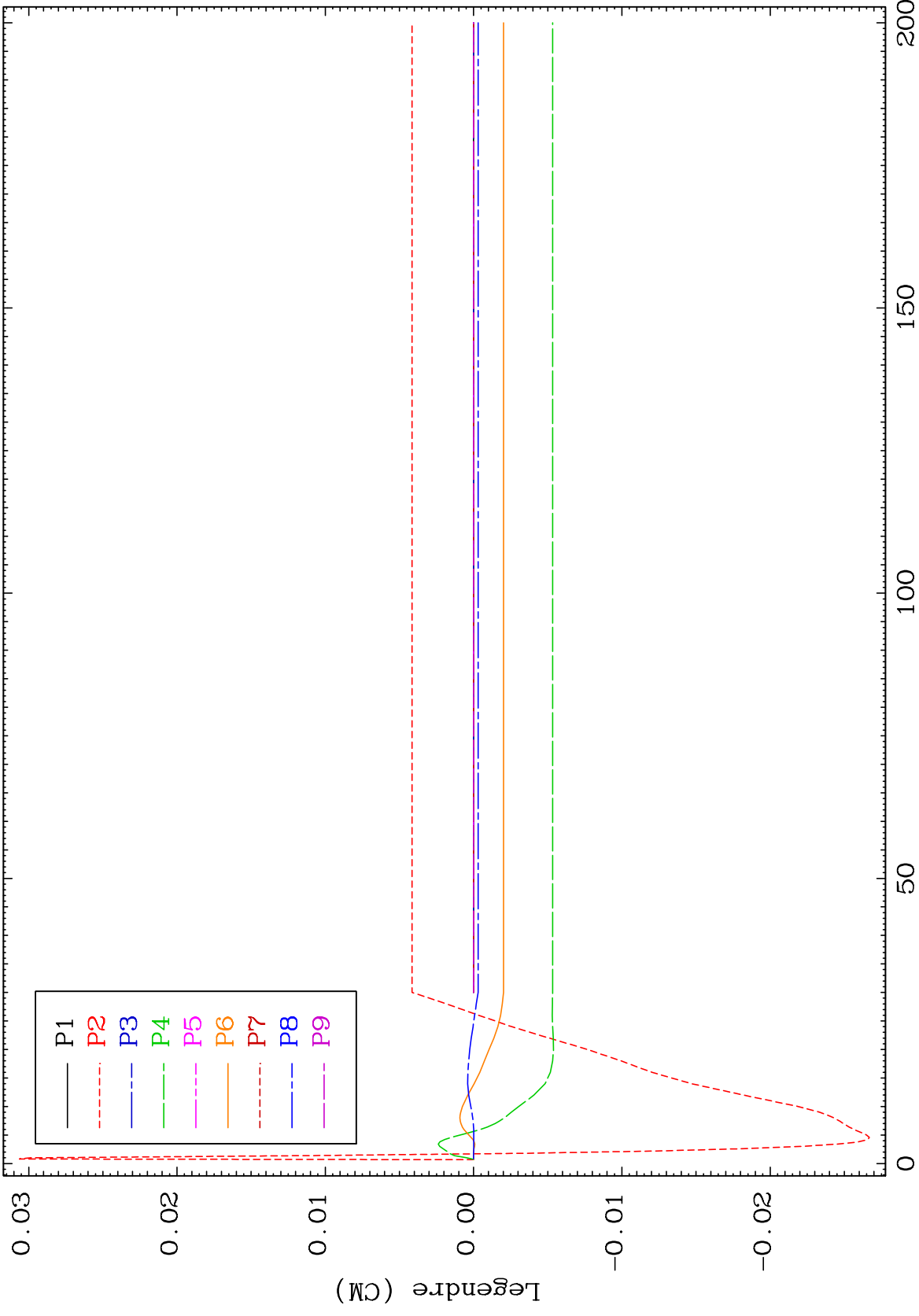
61-Pm-156



MAT 6176

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

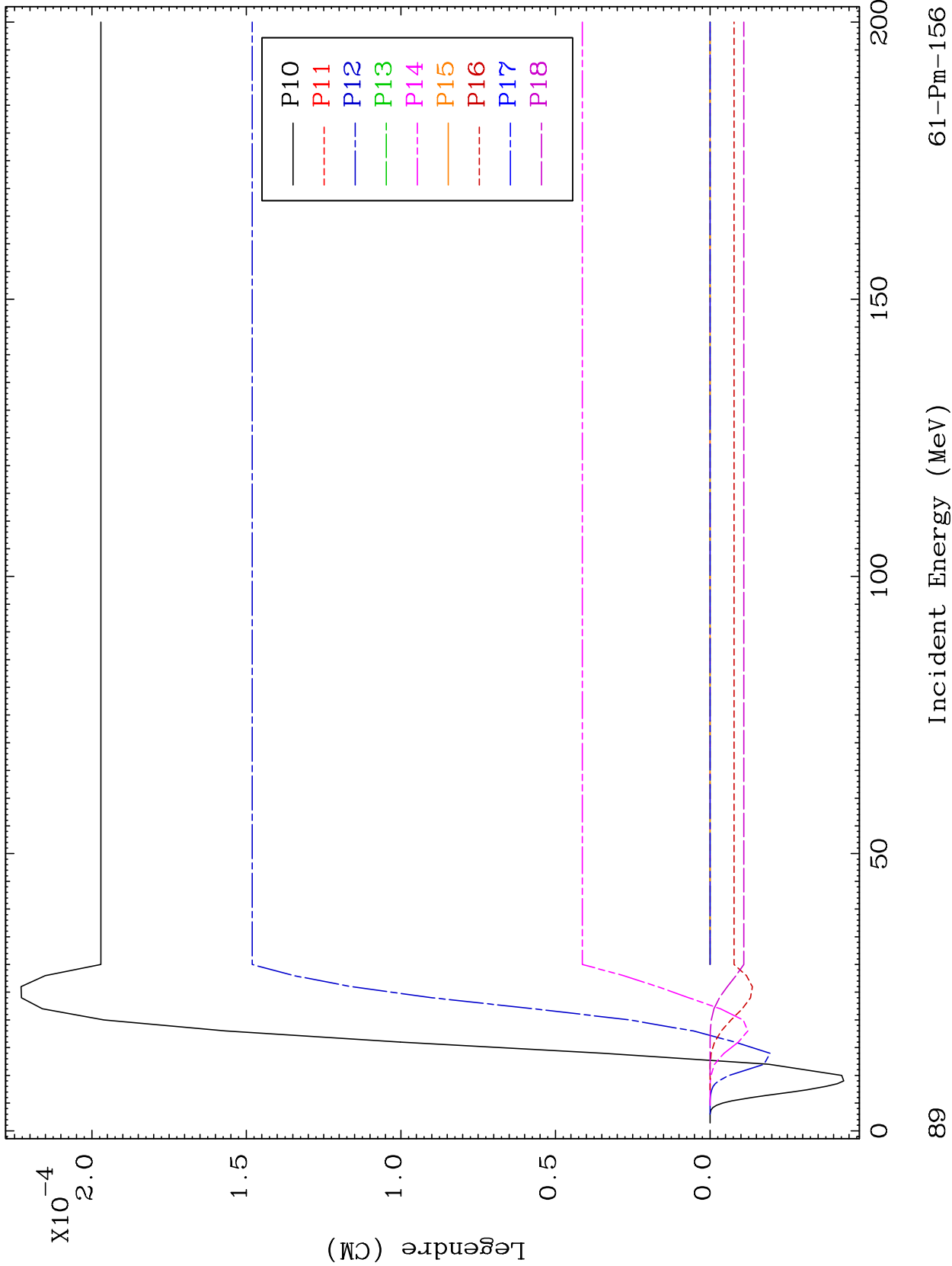
61-Pm-156

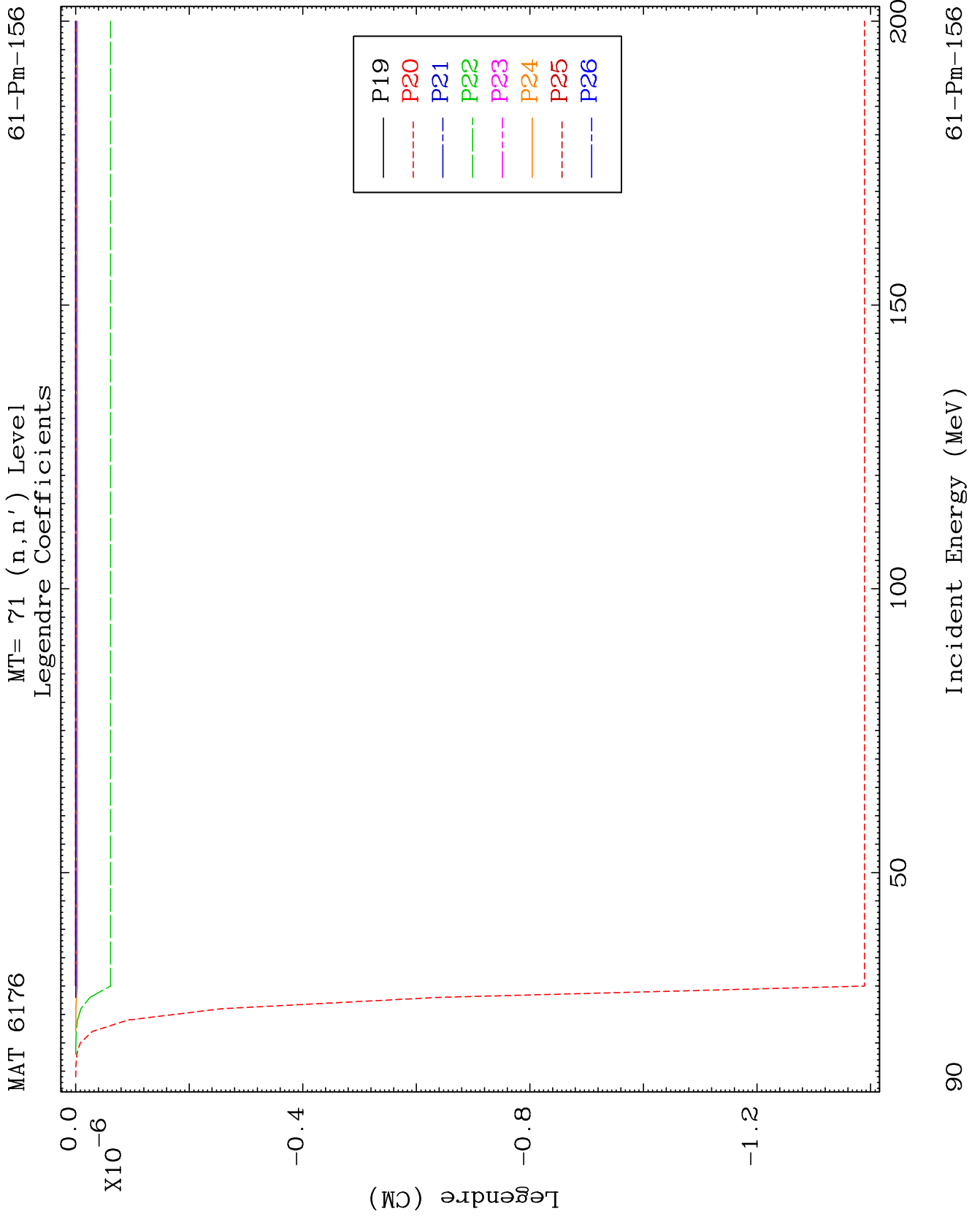


88

Incident Energy (MeV)

61-Pm-156

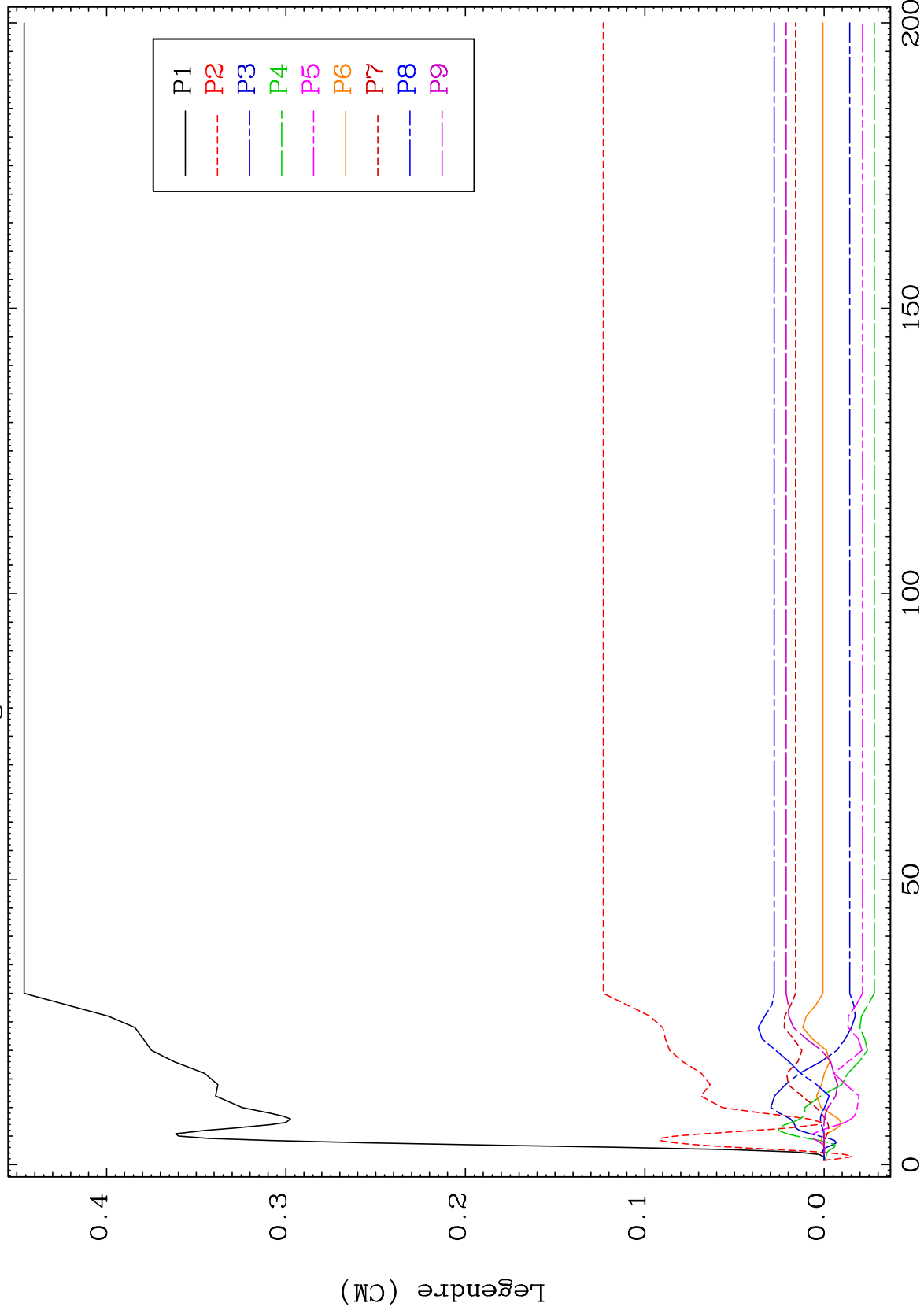




MAT 6176

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

61-Pm-156



91

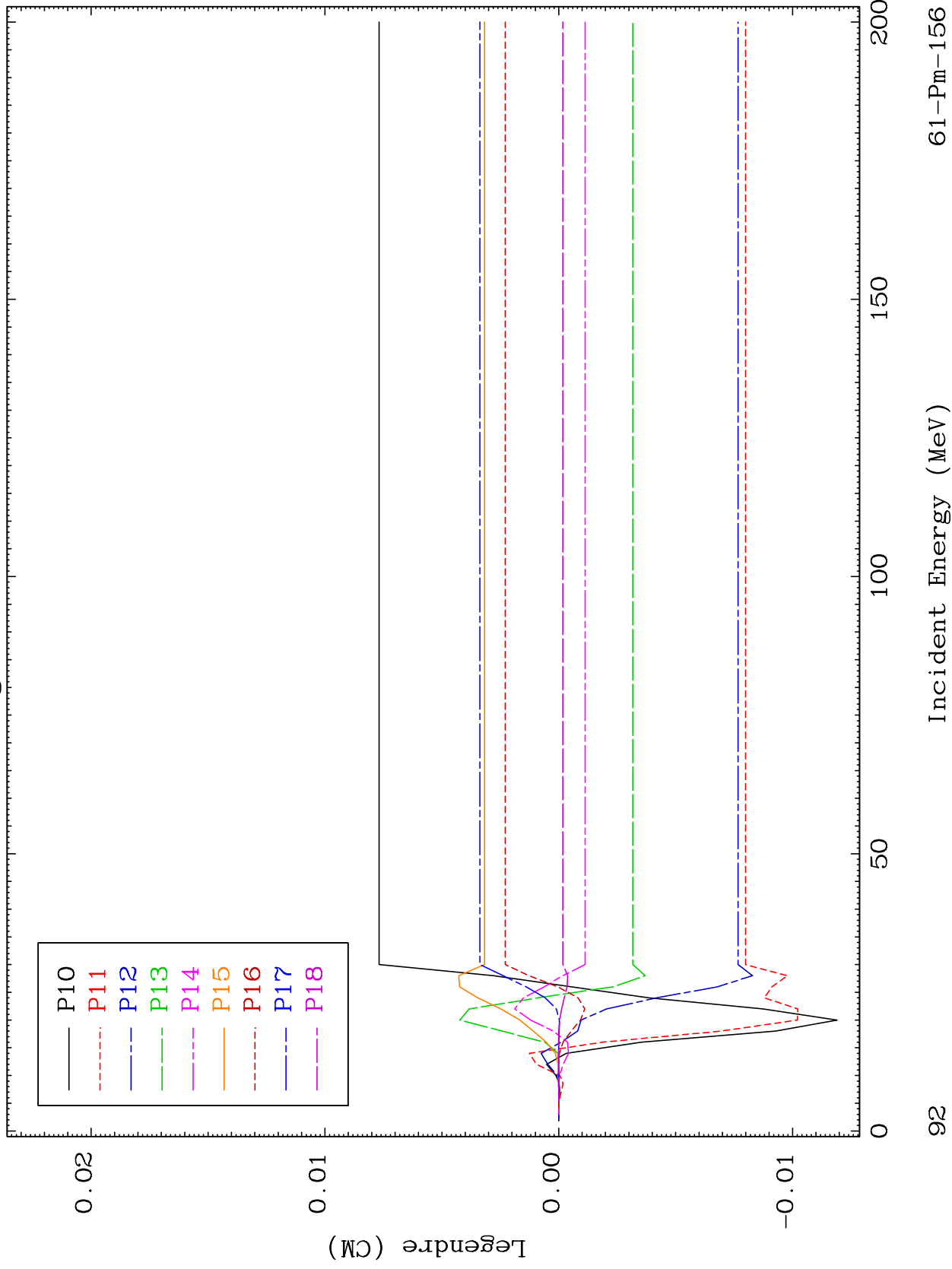
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

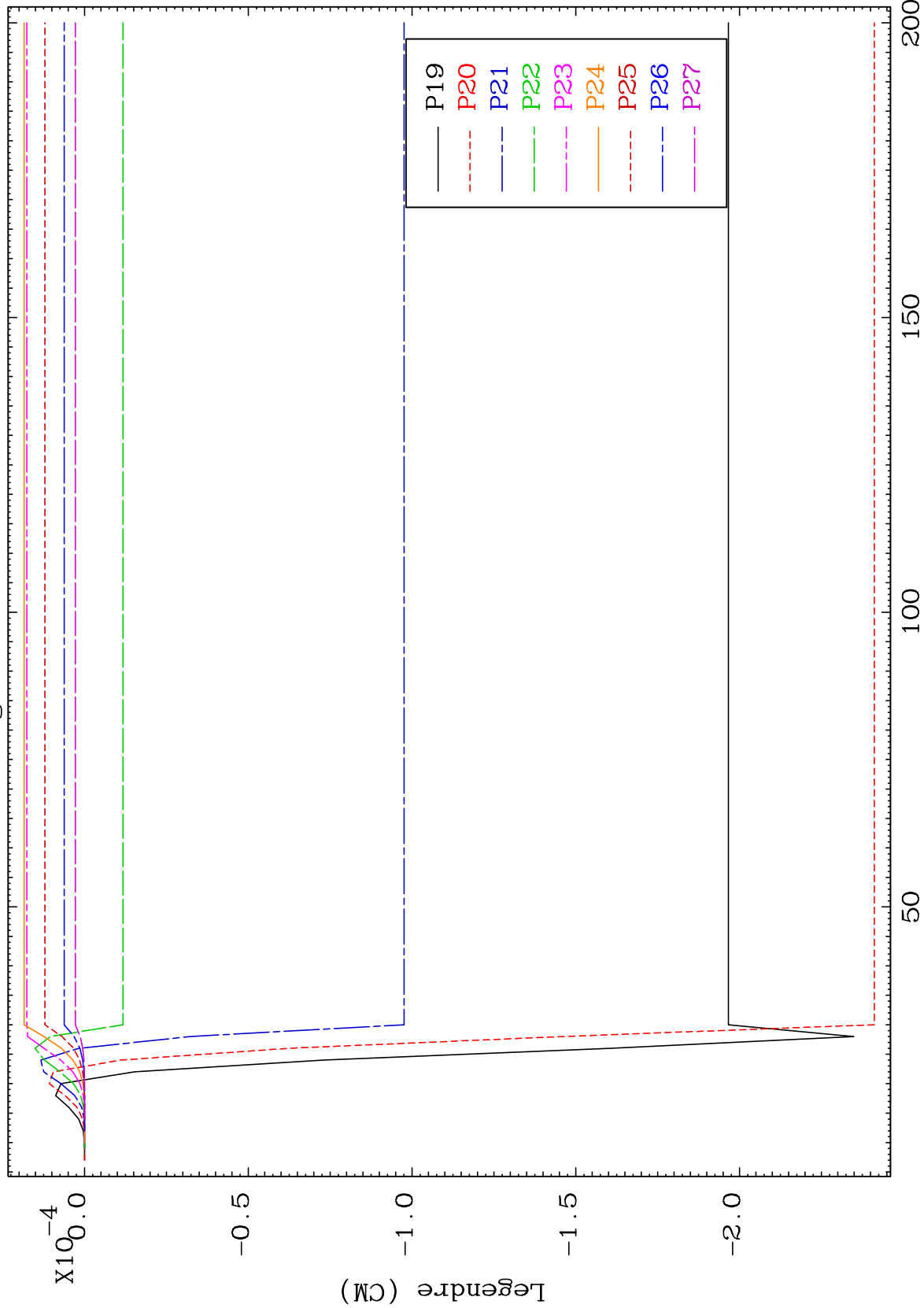
61-Pm-156



MAT 6176

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

61-Pm-156



93

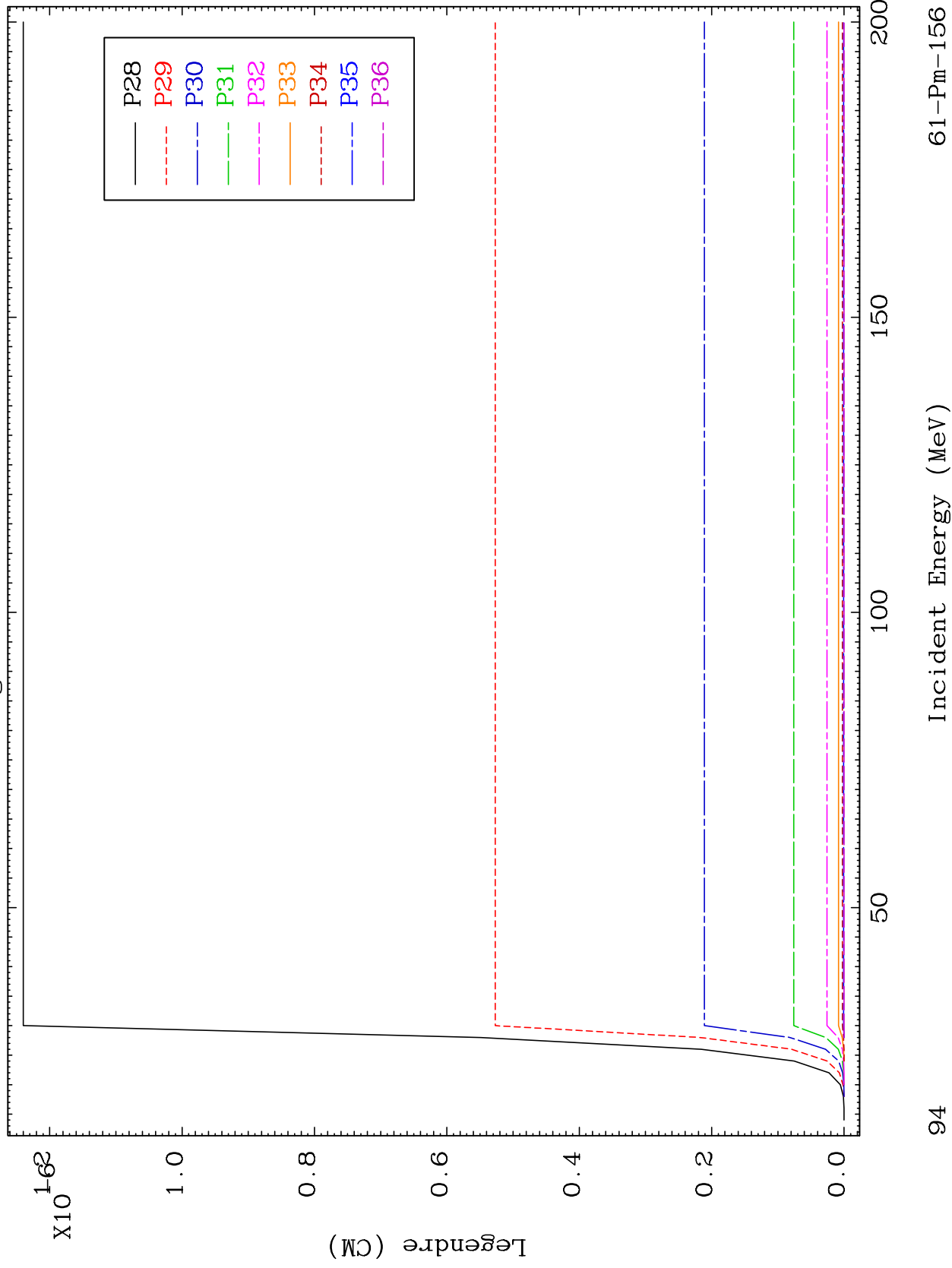
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



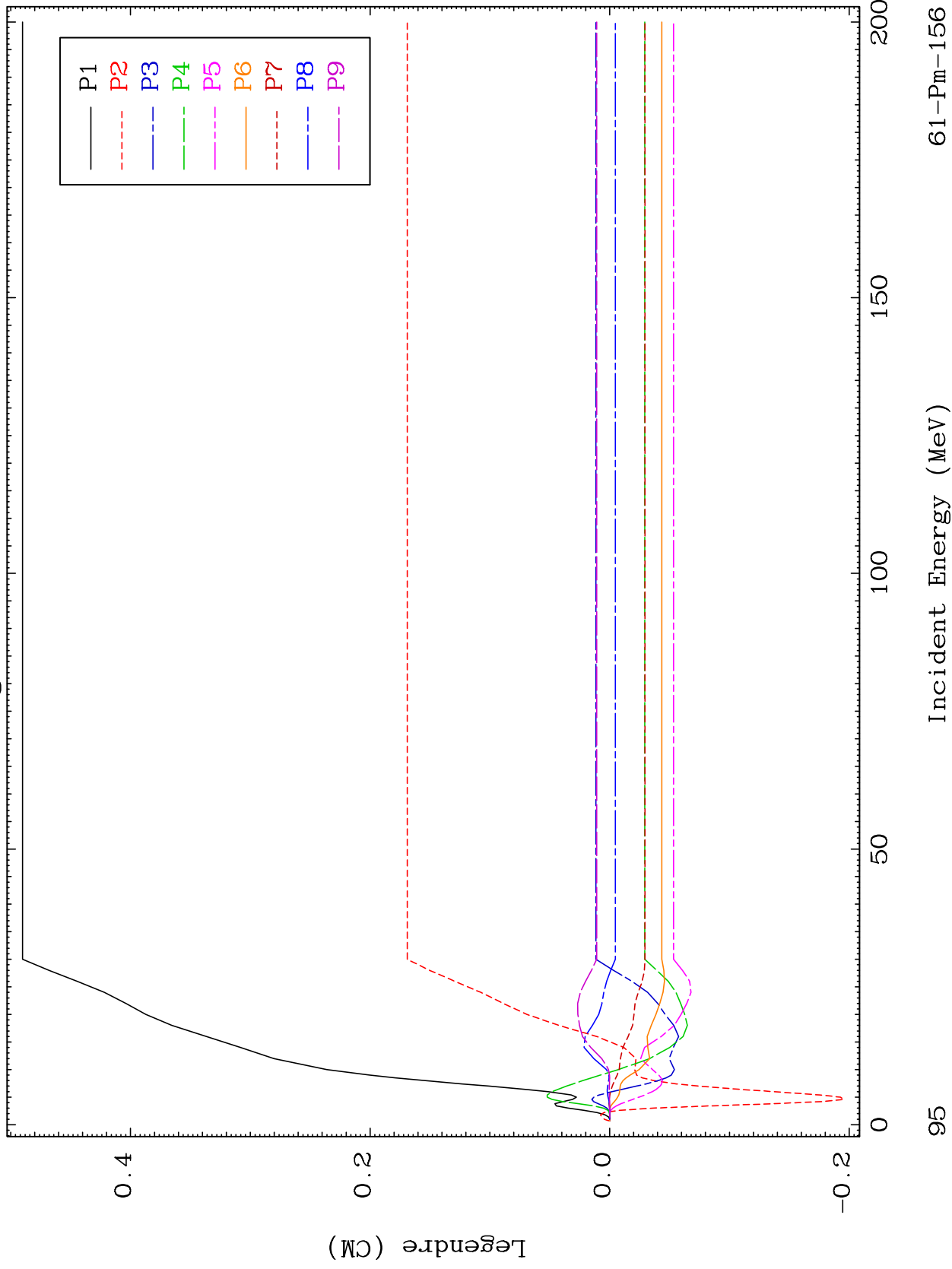
94

61-Pm-156

MAT 6176

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

61-Pm-156



61-Pm-156

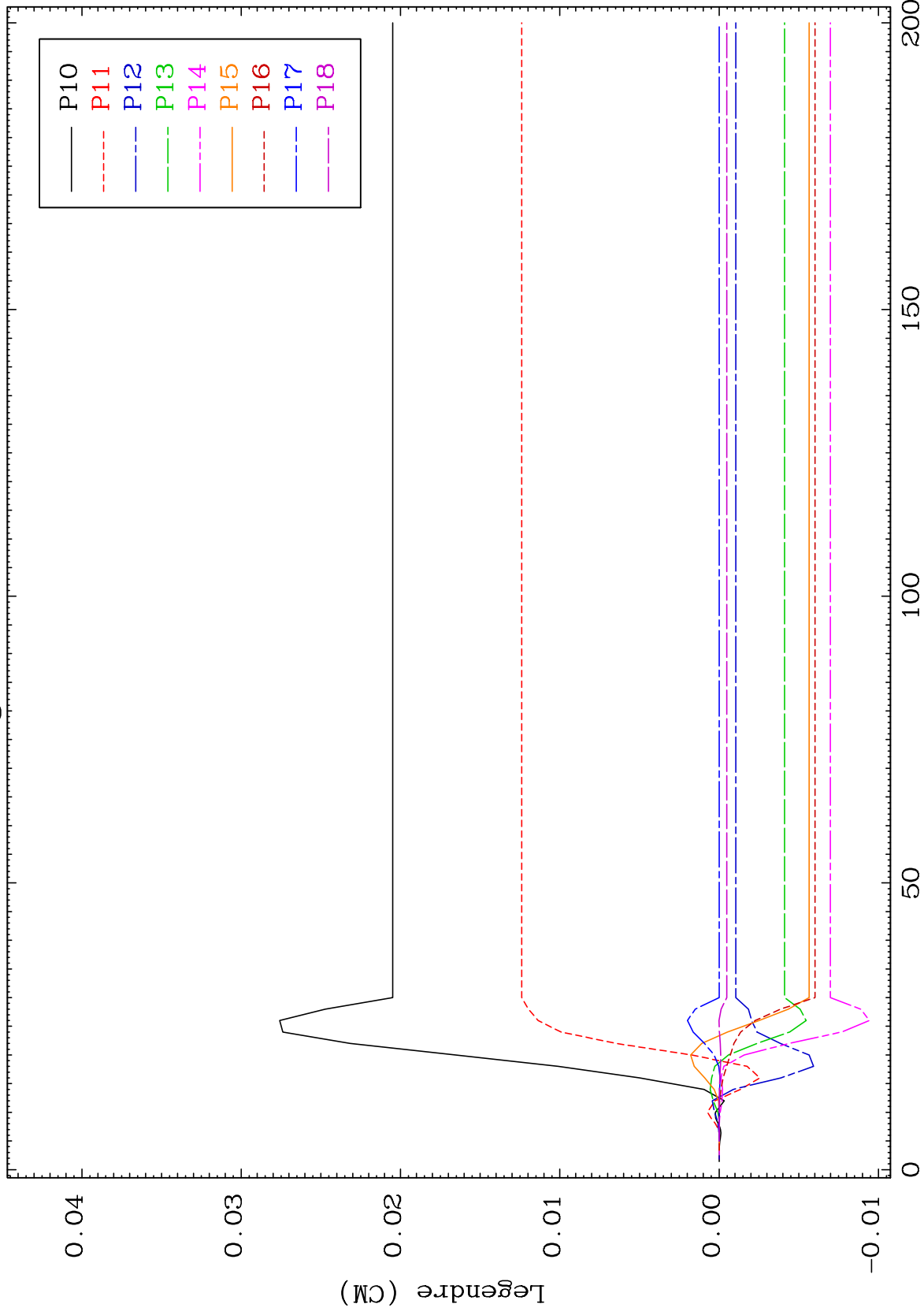
Incident Energy (MeV)

95

MAT 6176

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

61-Pm-156



96

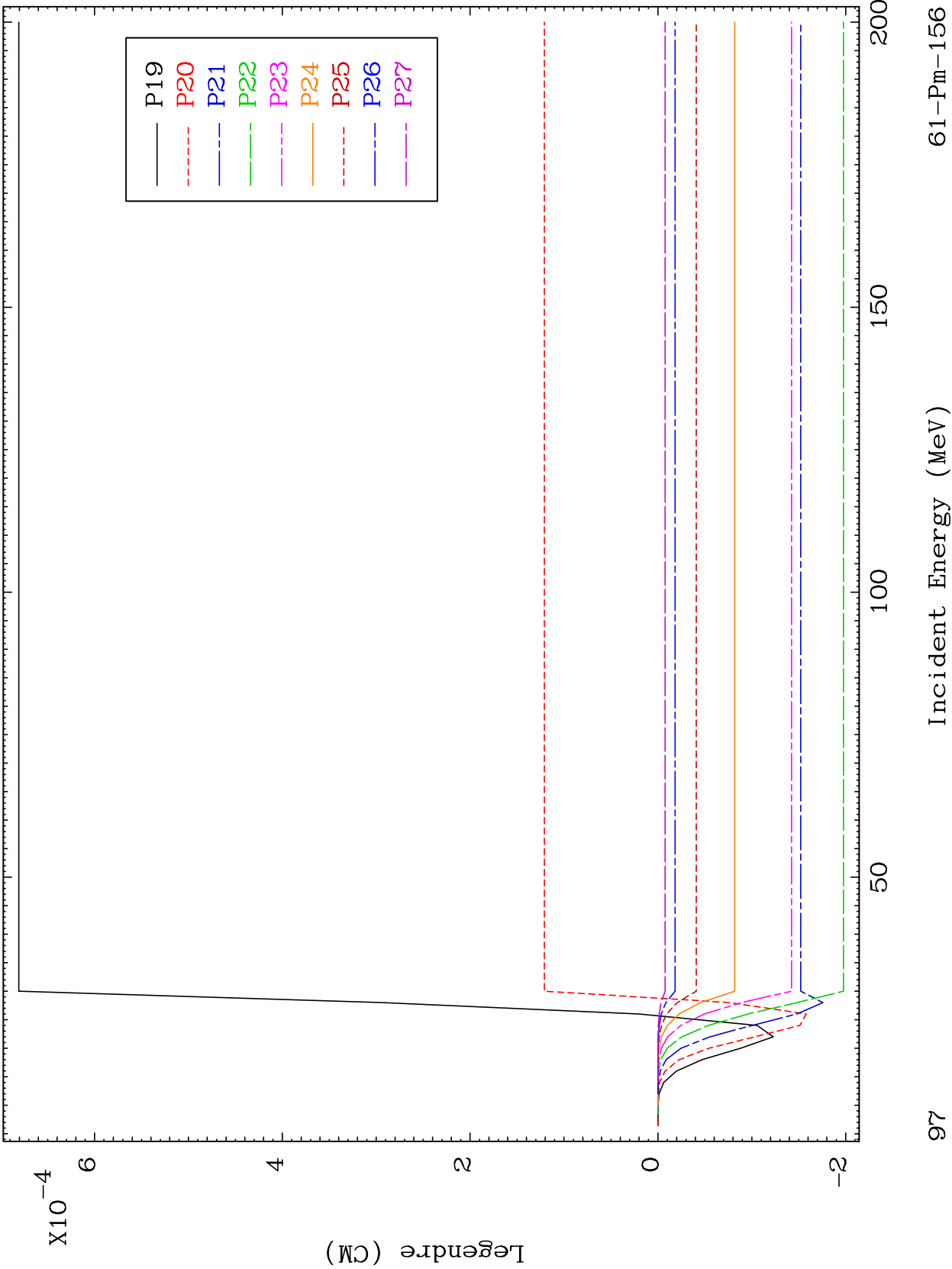
Incident Energy (MeV)

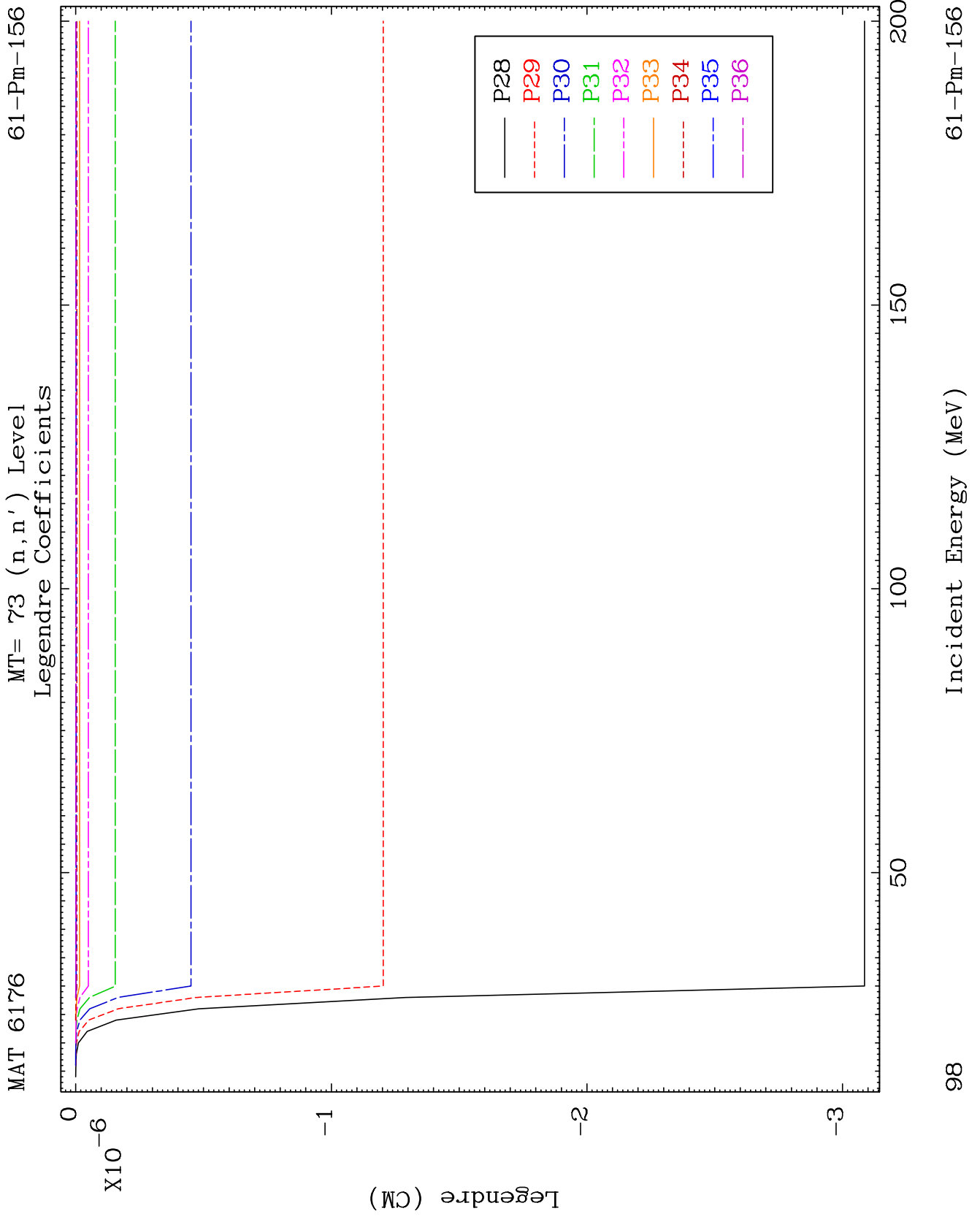
61-Pm-156

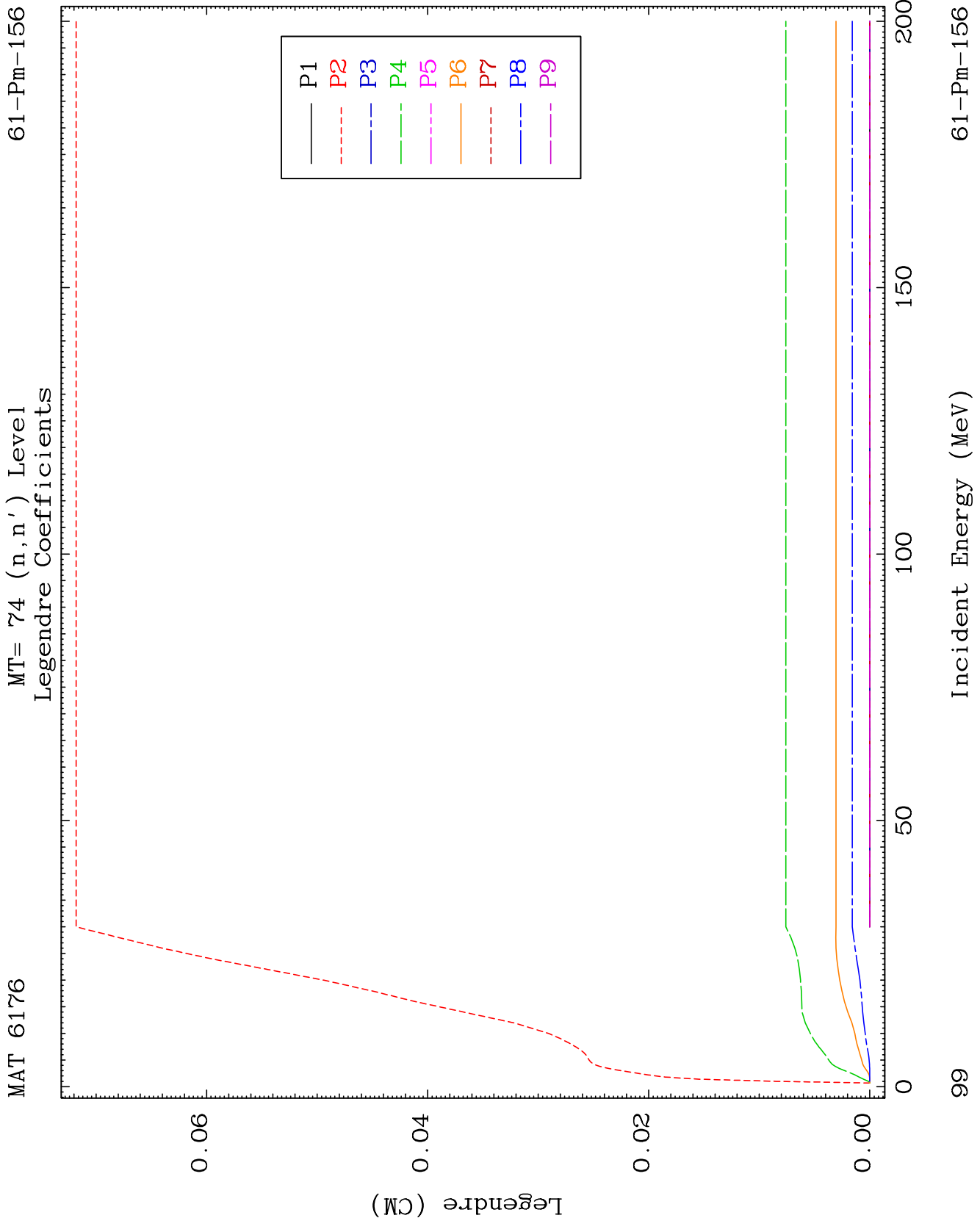
MAT 6176

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

61-Pm-156



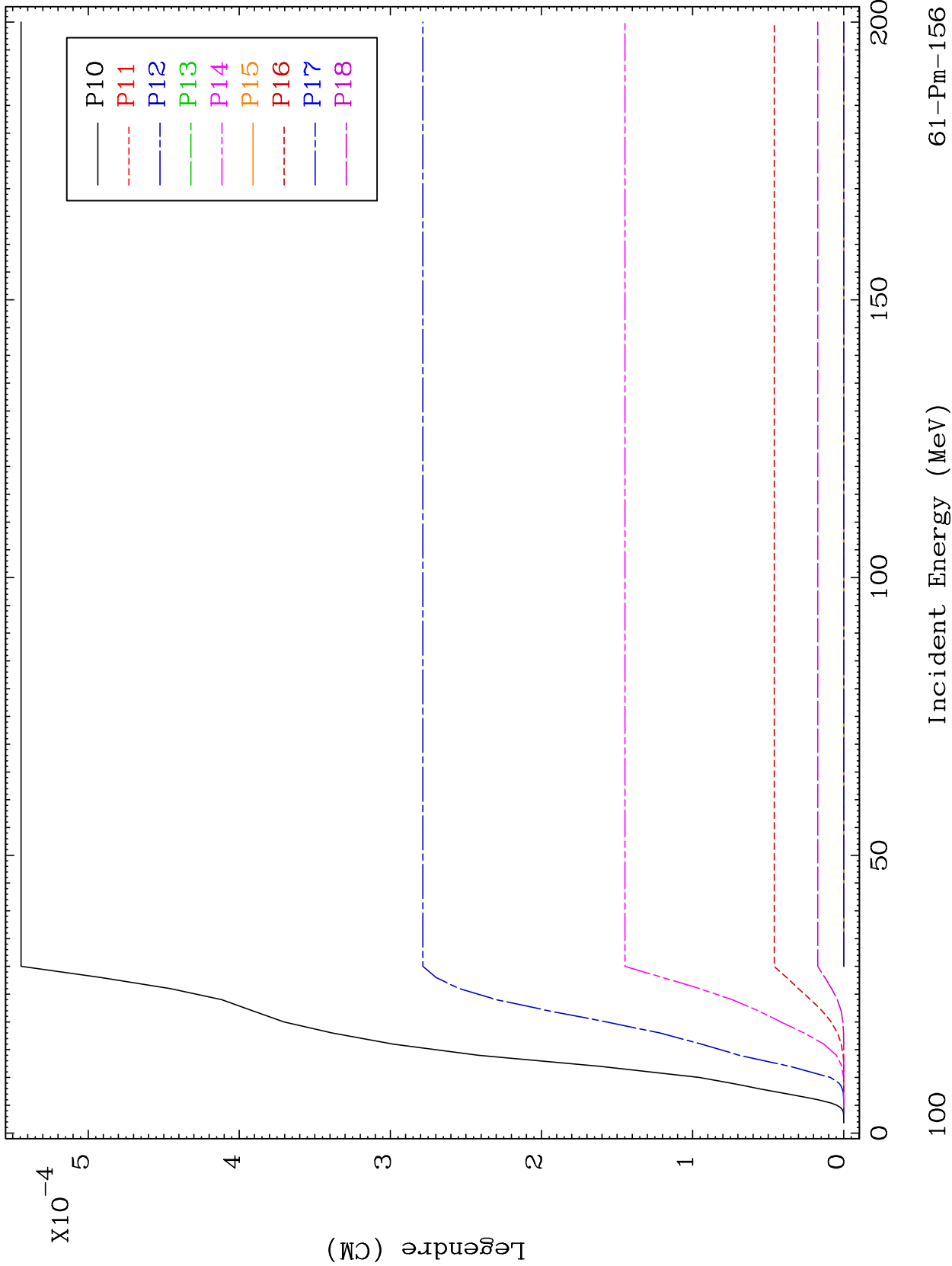




MAT 6176

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

61-Pm-156

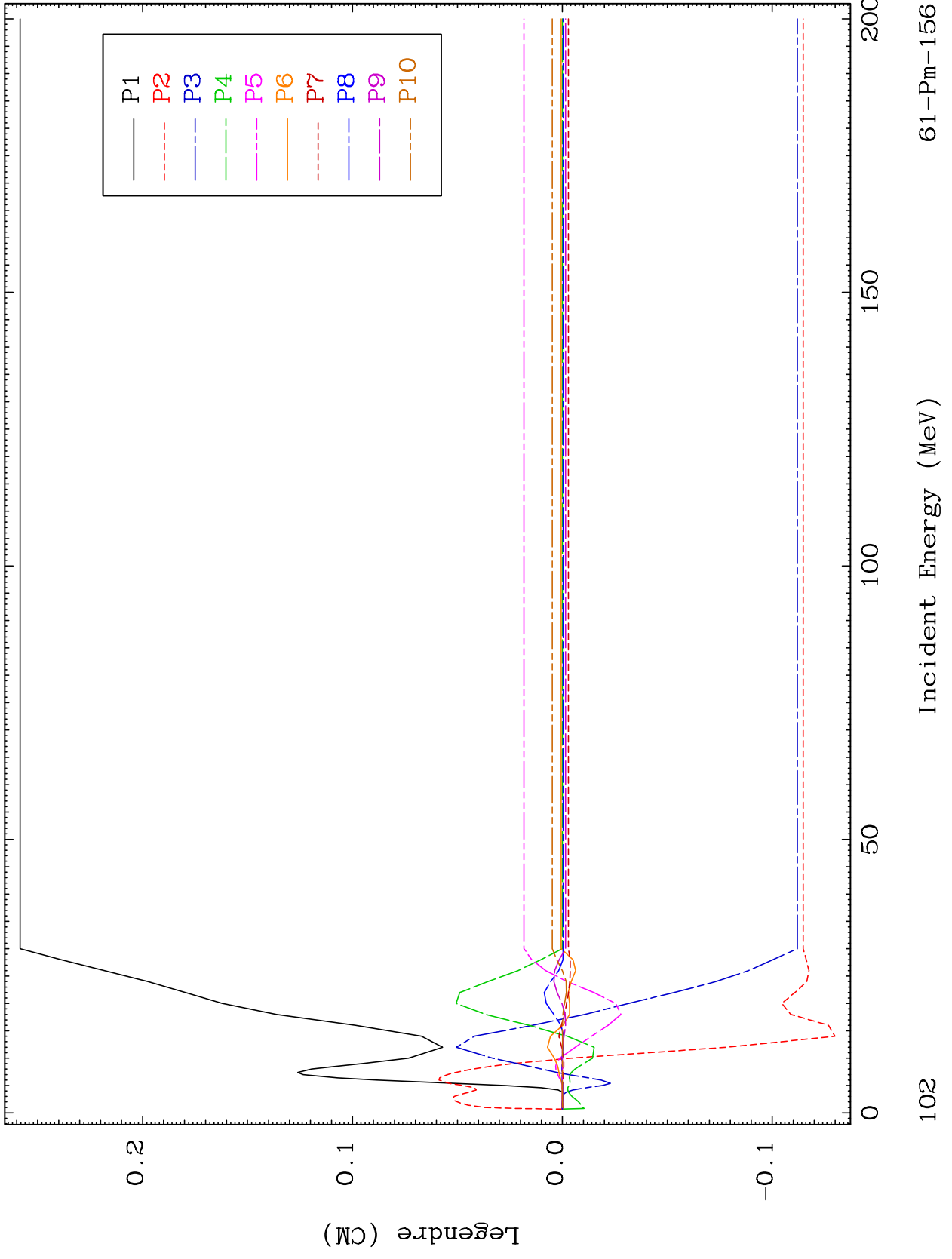




MAT 6176

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

61-Pm-156



61-Pm-156

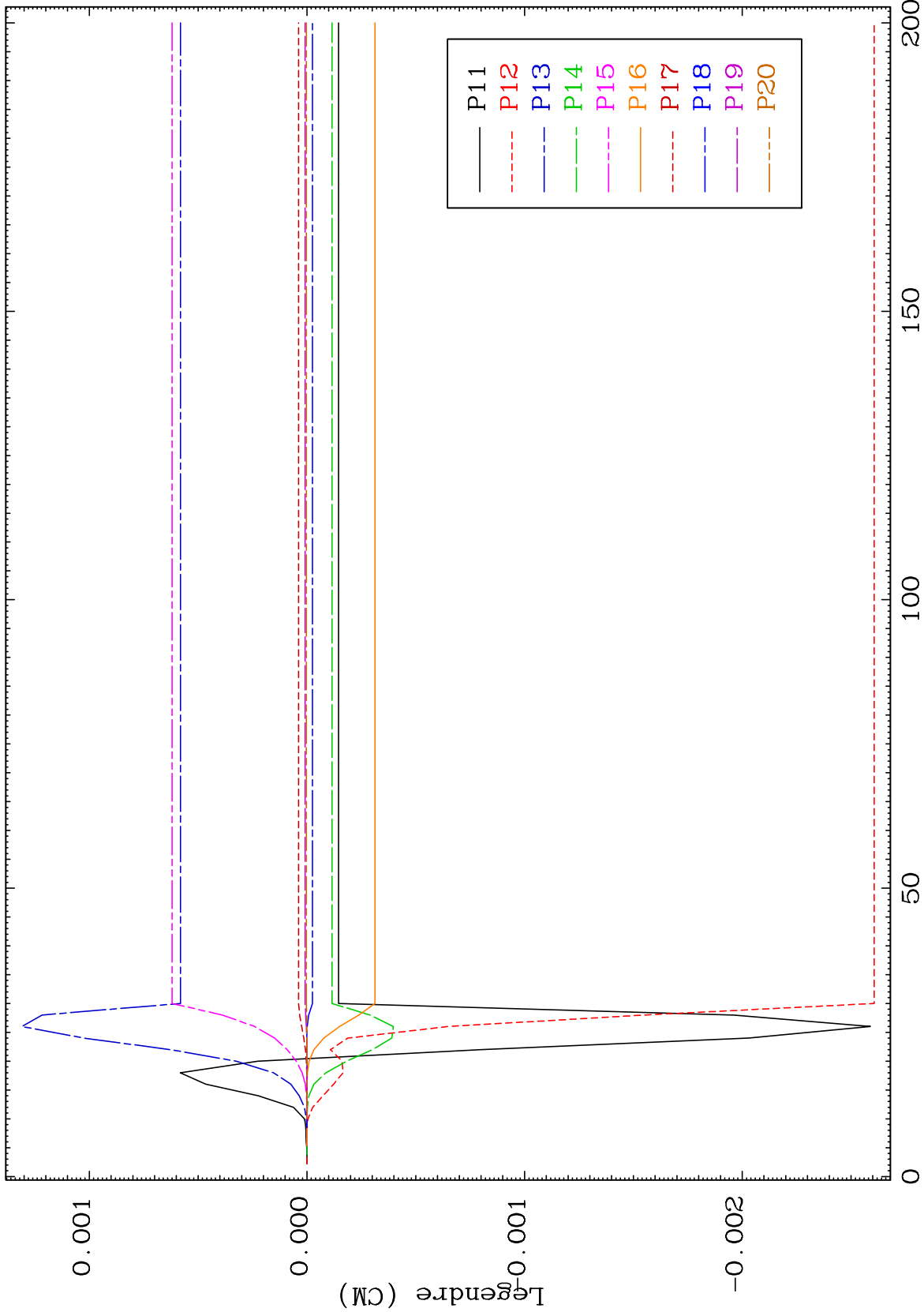
Incident Energy (MeV)

102

MAT 6176

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

61-Pm-156



103

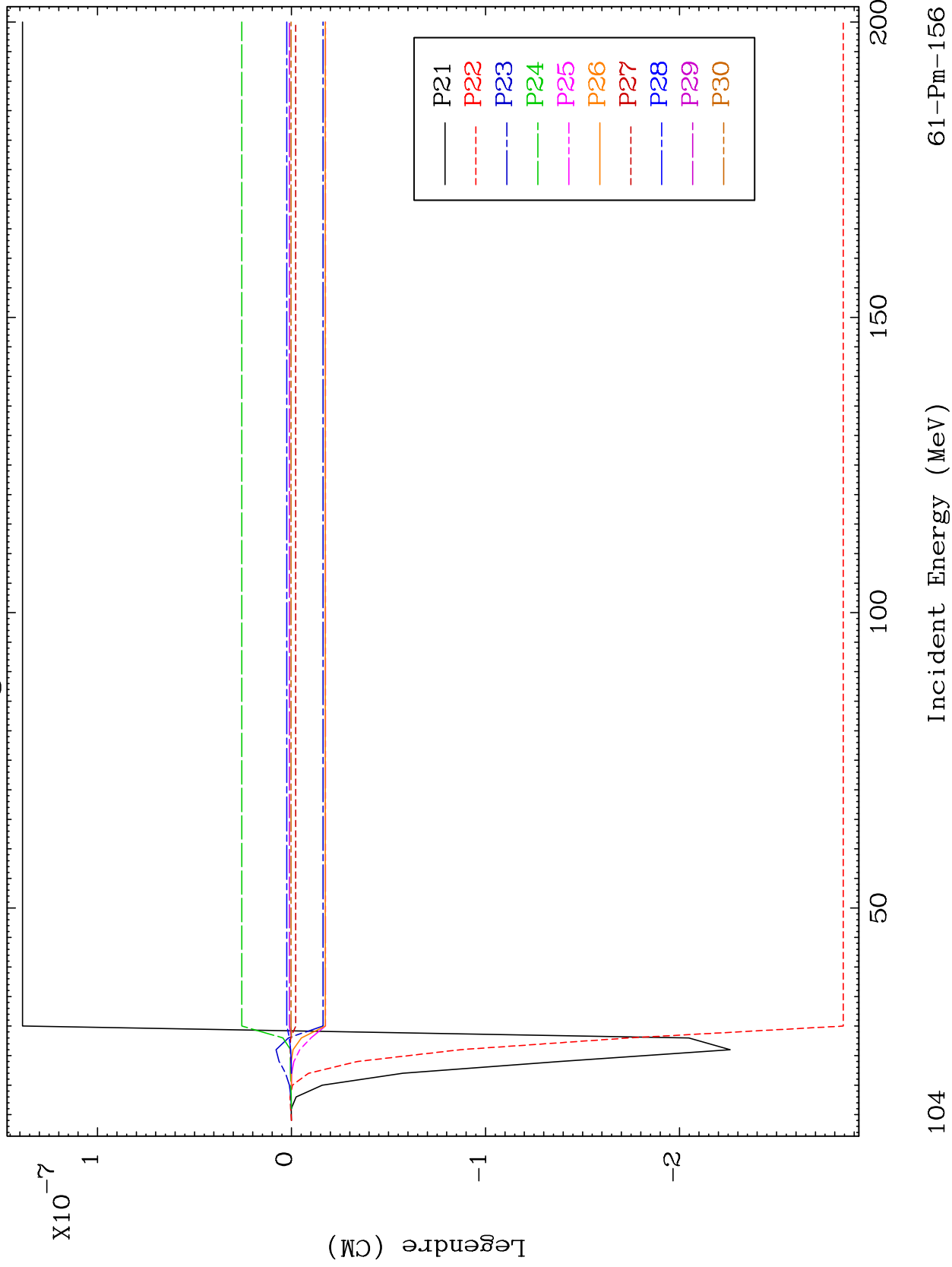
Incident Energy (MeV)

61-Pm-156

MAT 6176

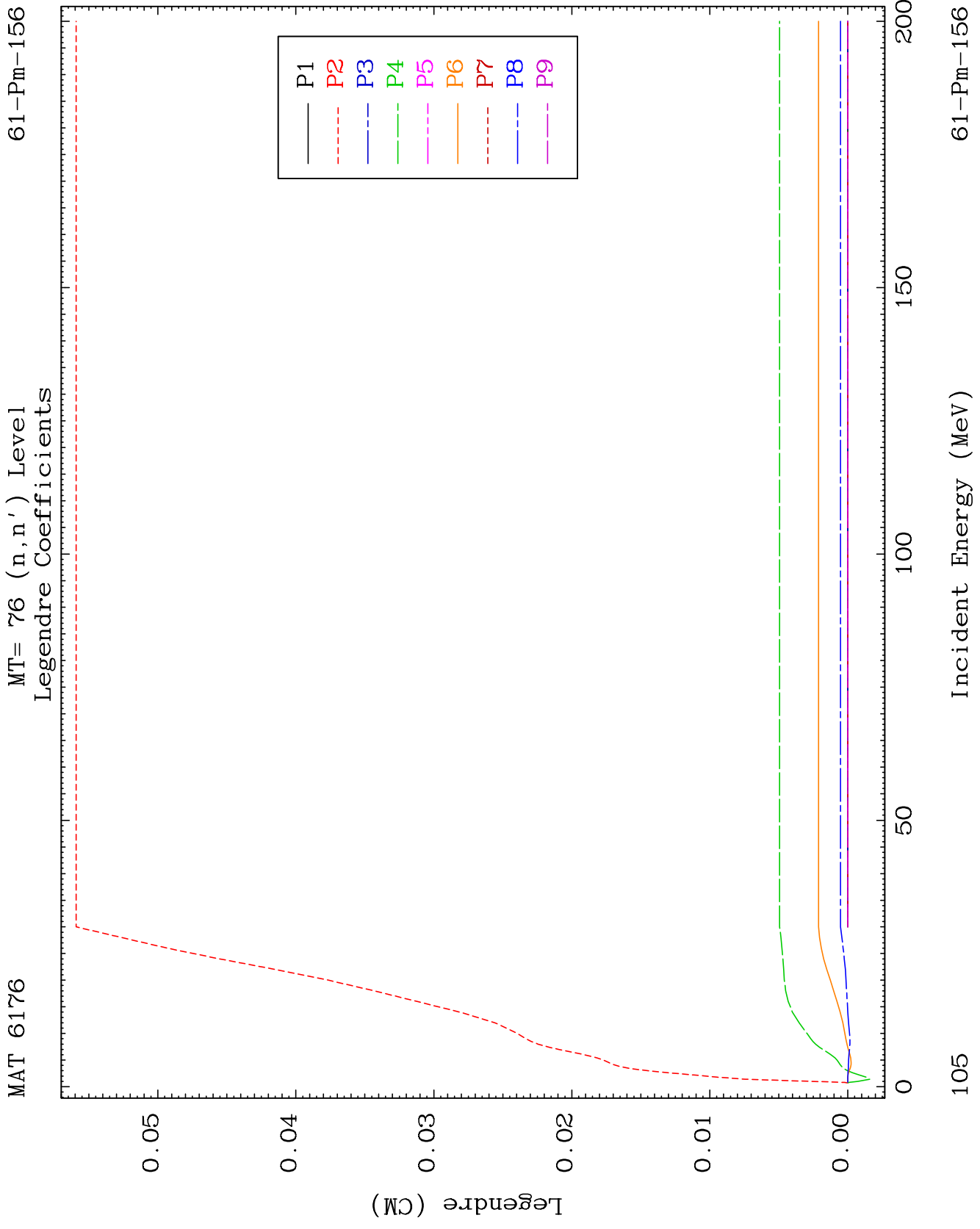
MT= 75 (n,n') Level  
Legendre Coefficients

61-Pm-156



104

61-Pm-156

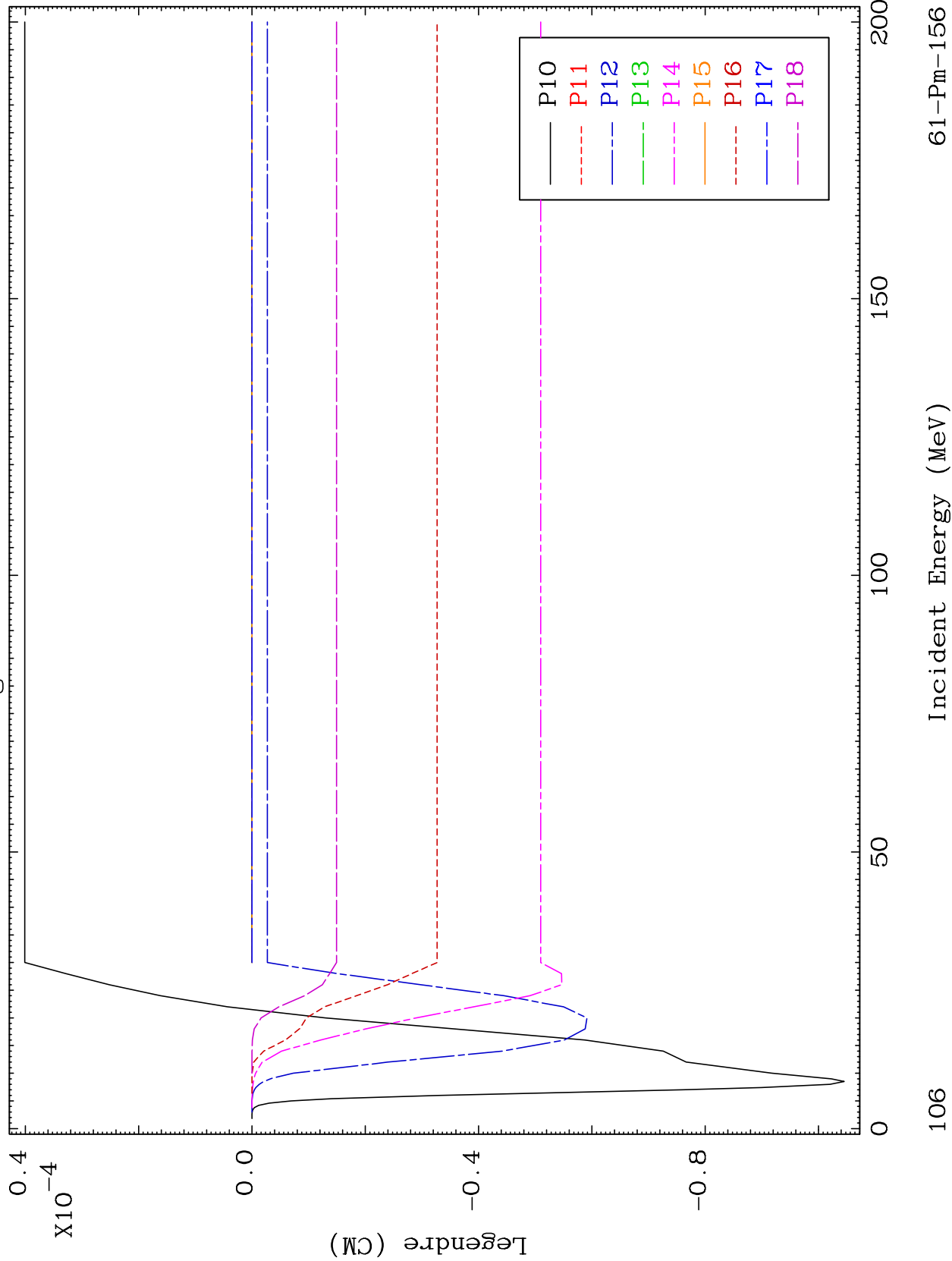


MAT 6176

MT= 76 (n,n') Level

61-Pm-156

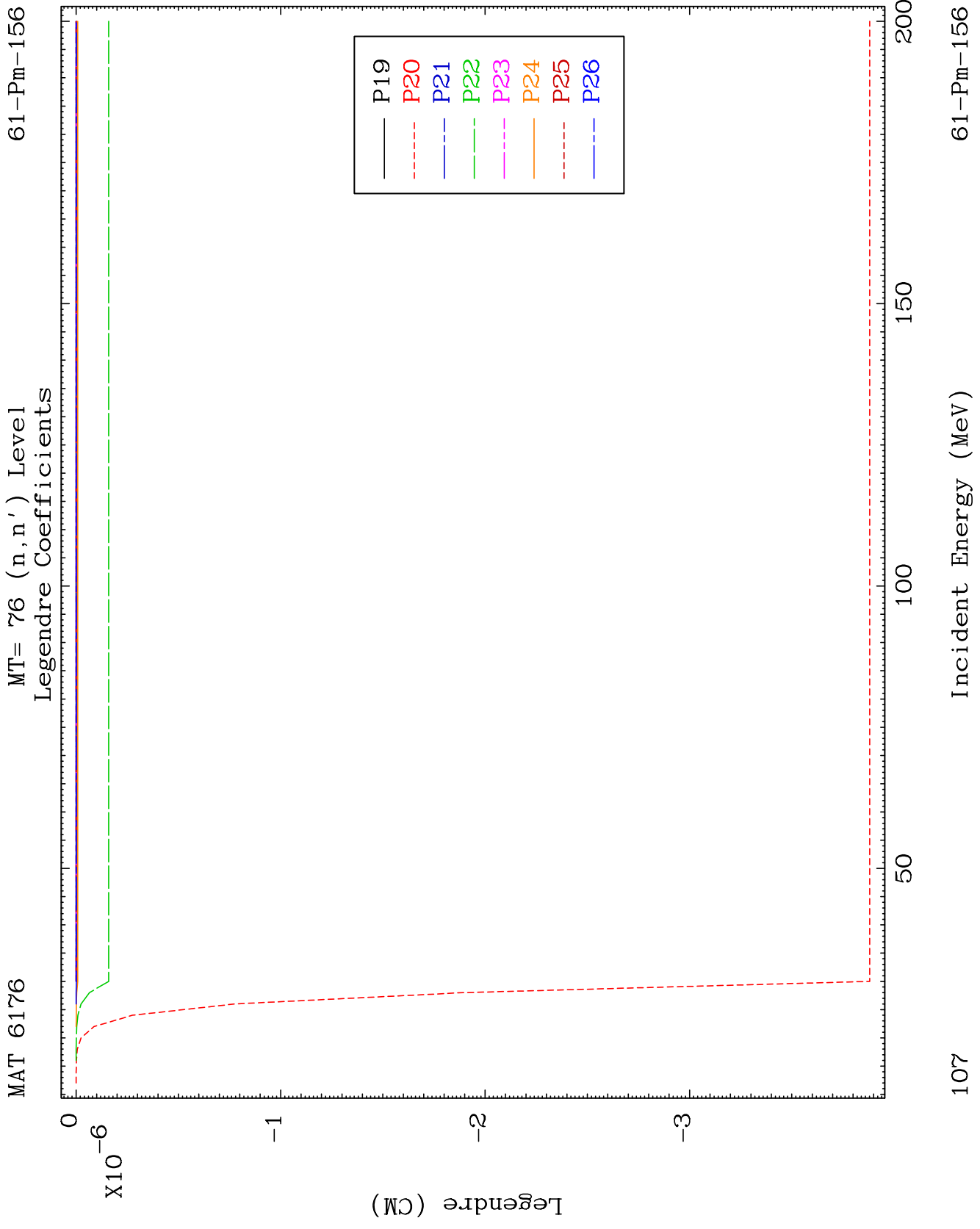
Legendre Coefficients



106

61-Pm-156

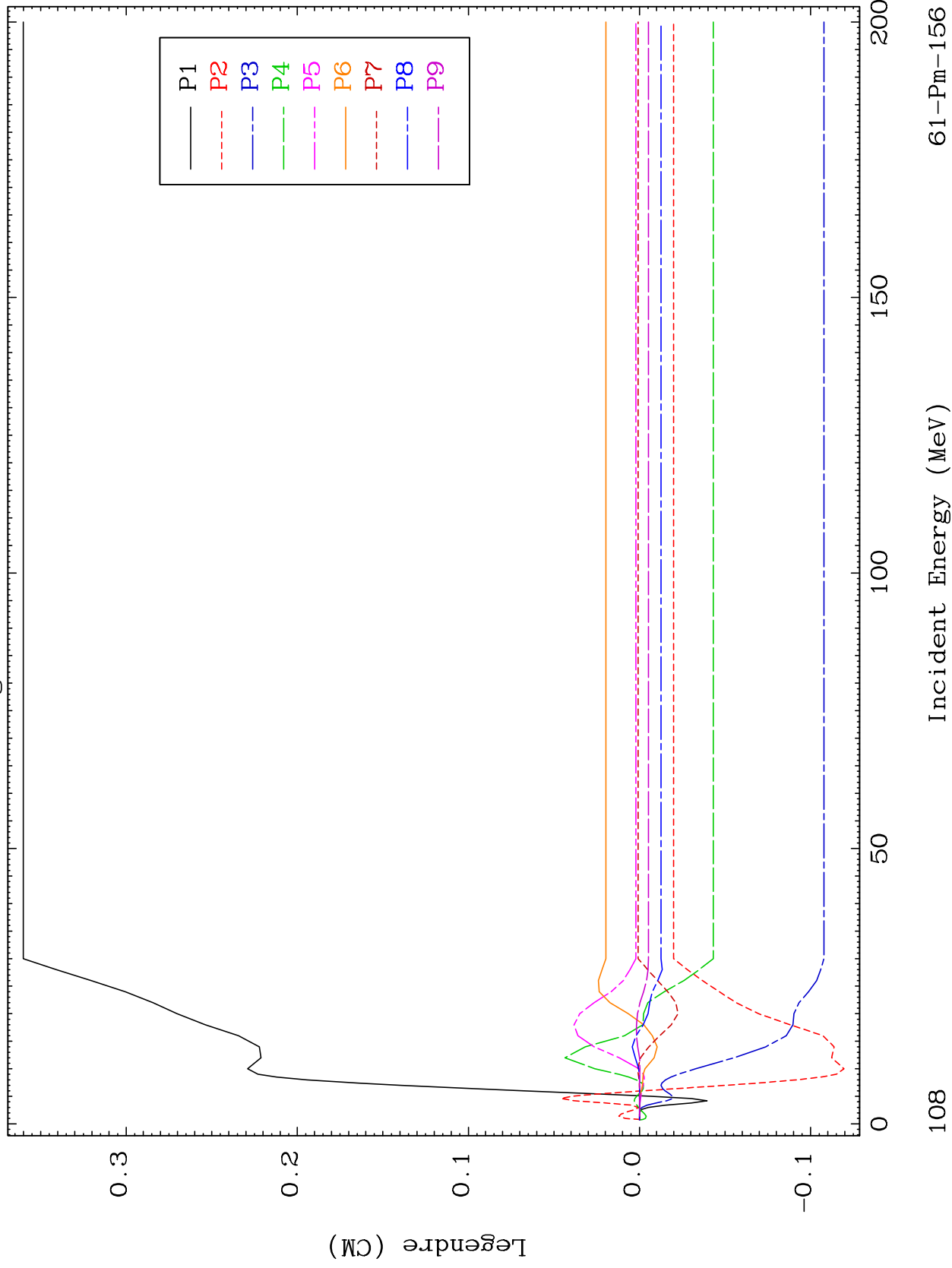
61-Pm-156



MAT 6176

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

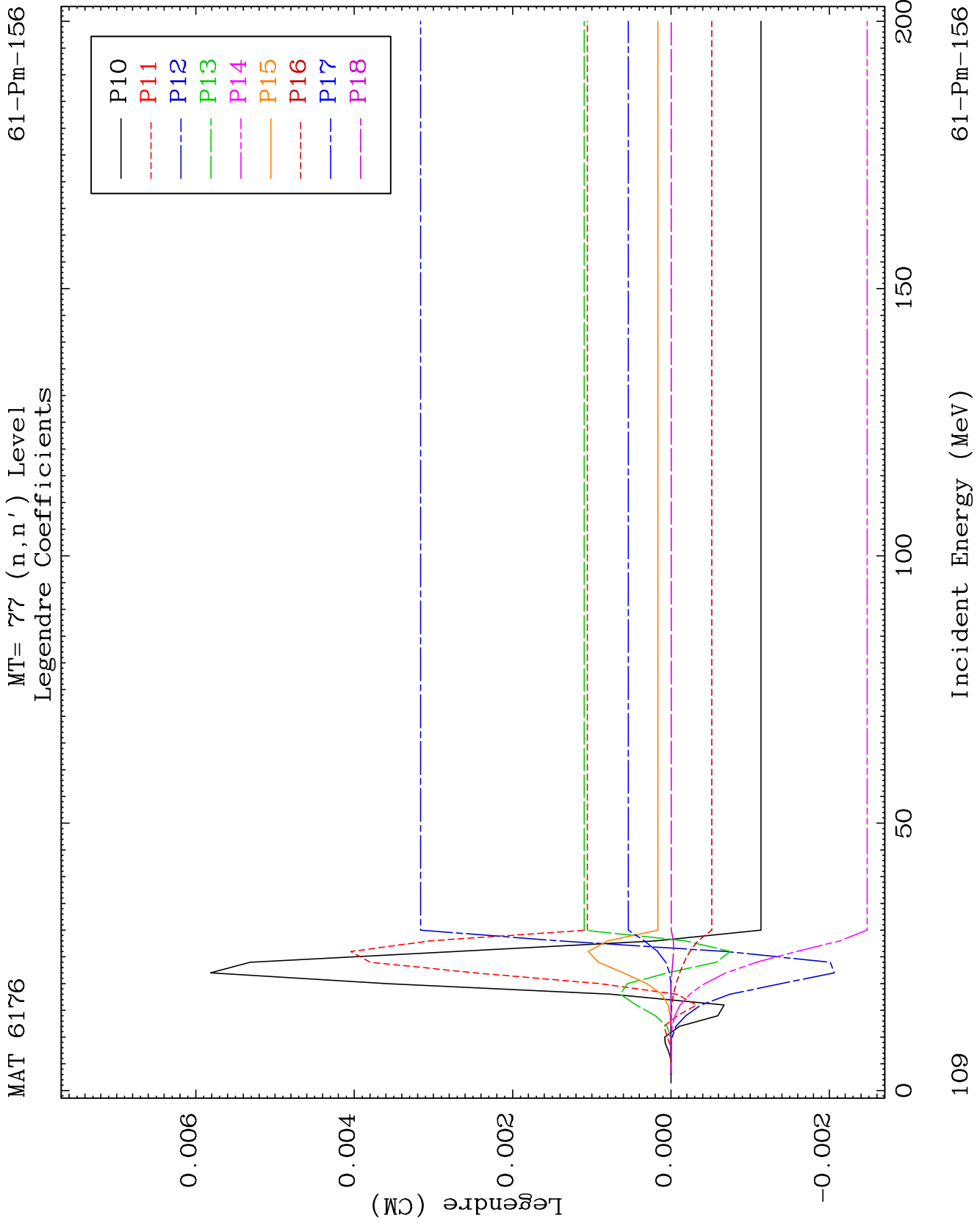
61-Pm-156



61-Pm-156

Incident Energy (MeV)

108



61-Pm-156

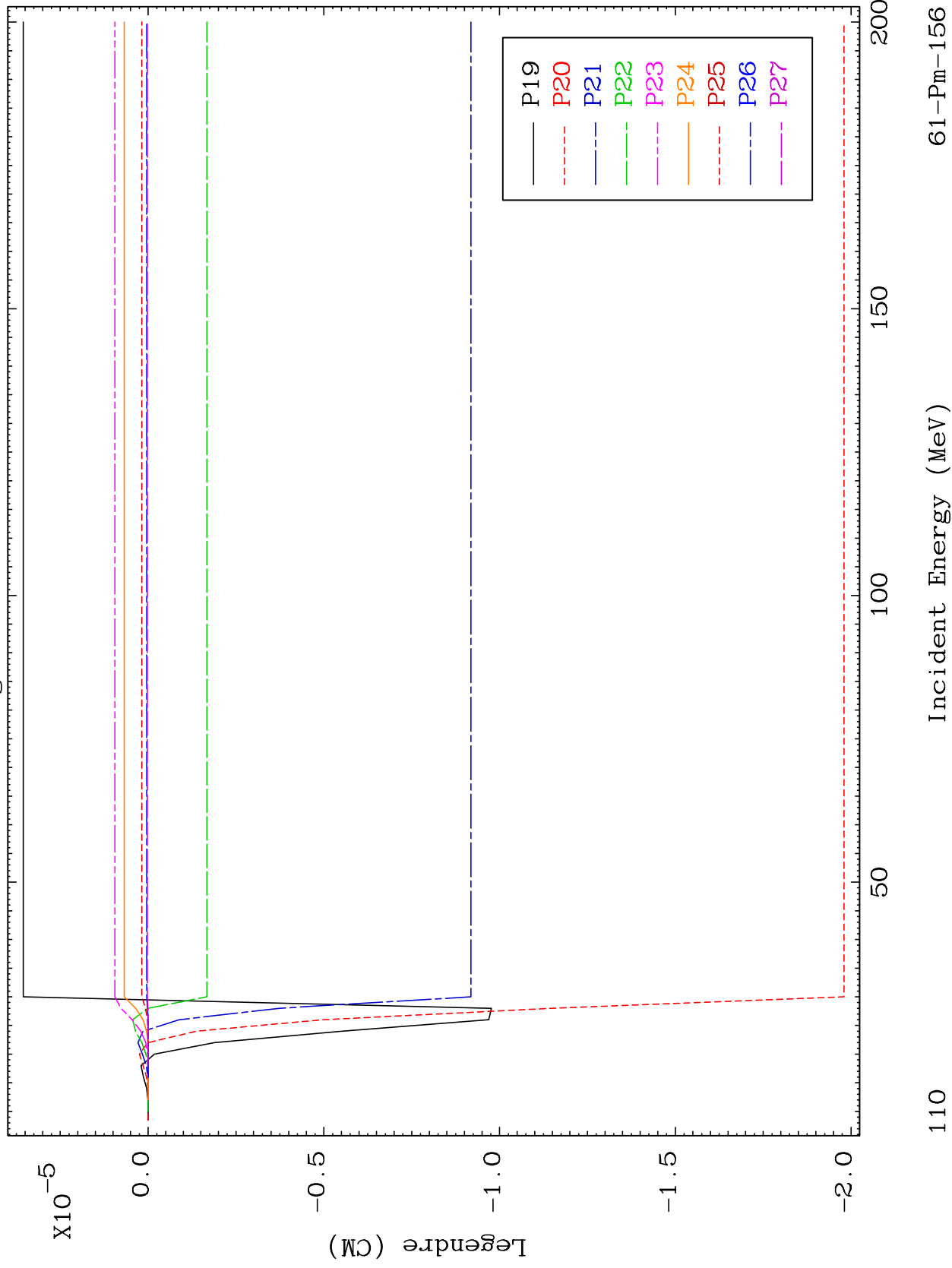
Incident Energy (MeV)

109

MAT 6176

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

61-Pm-156



110

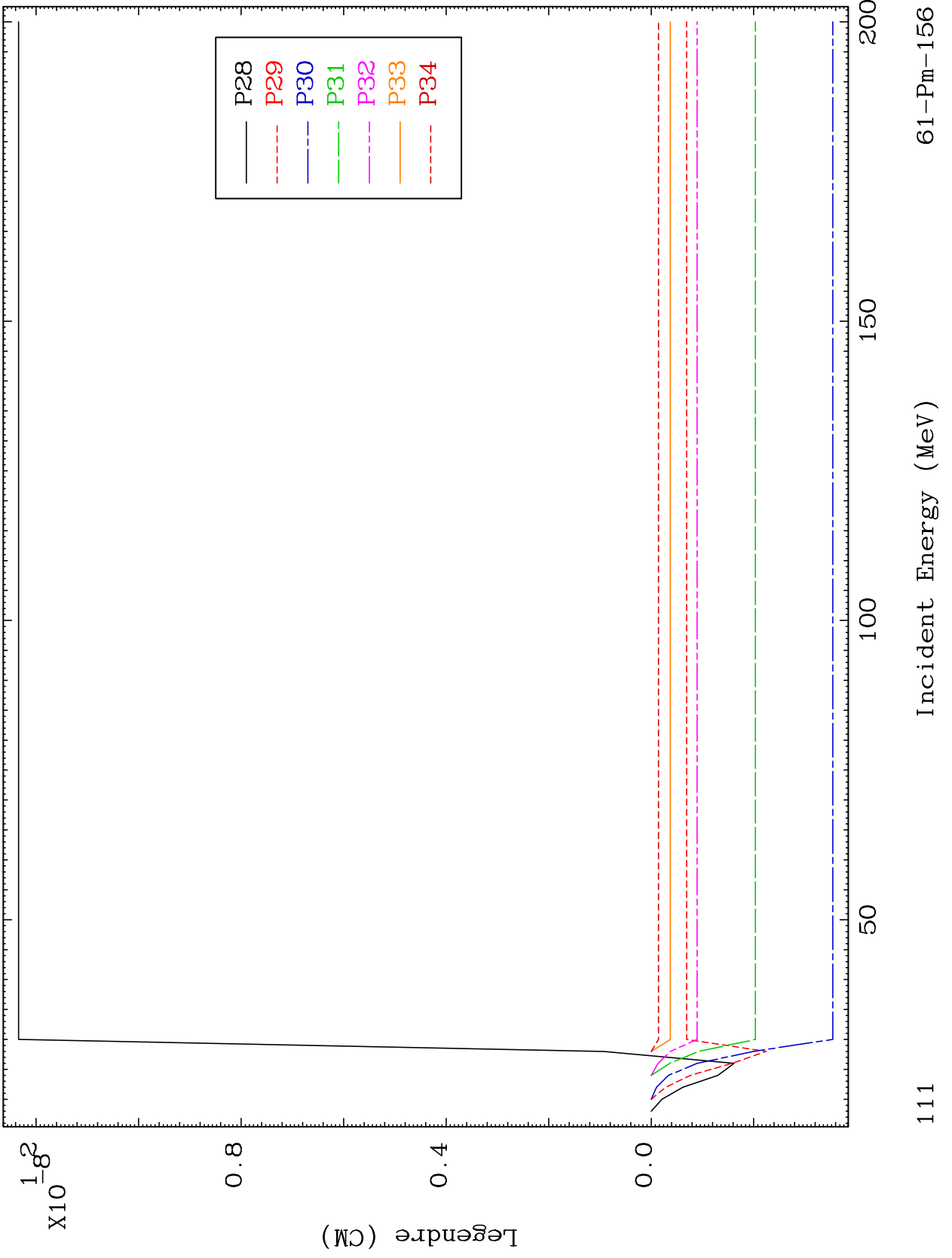
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



111

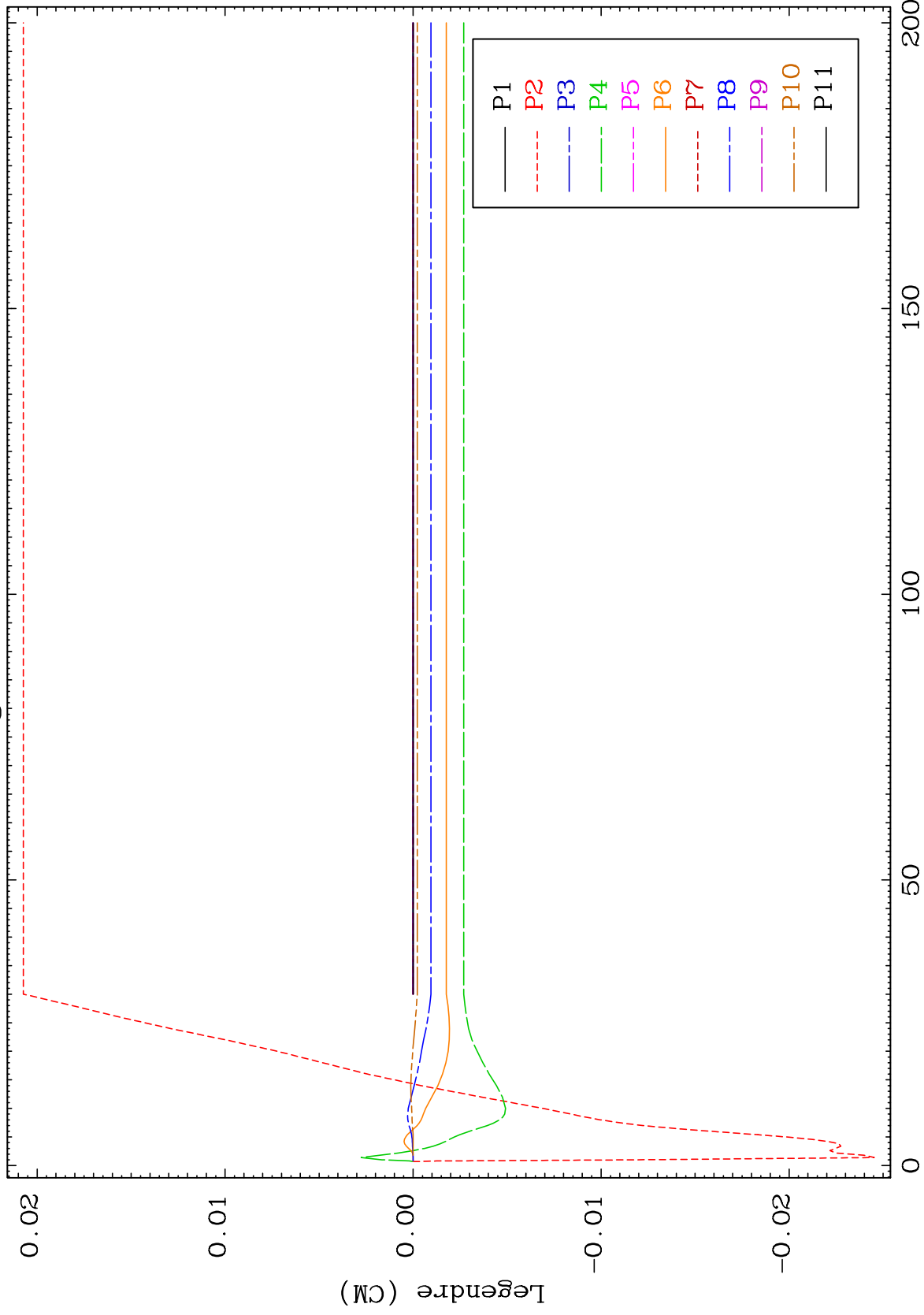
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



61-Pm-156

Incident Energy (MeV)

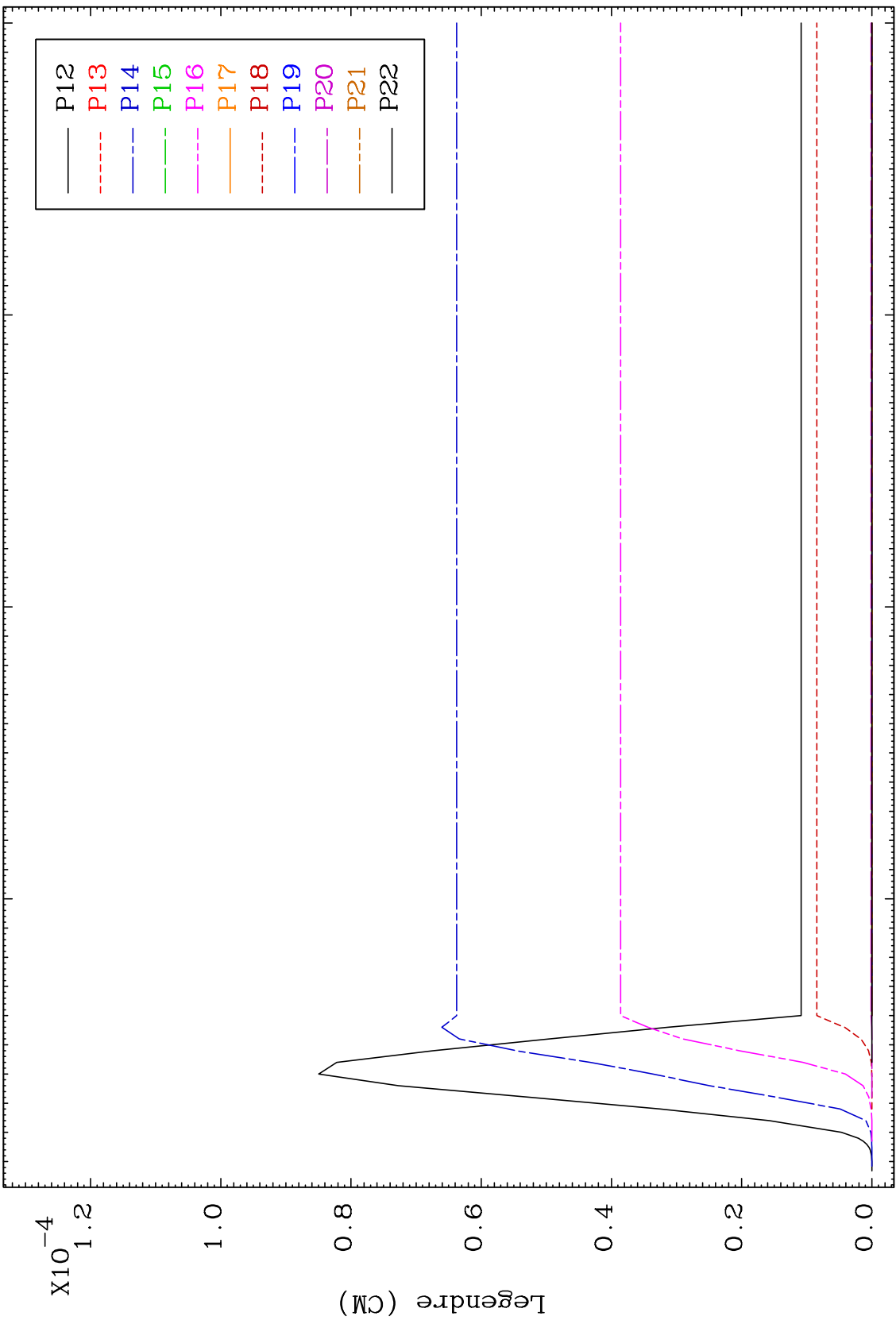
112

MAT 6176

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

61-Pm-156

$\times 10^{-4}$   
1.2  
1.0  
0.8  
0.6  
0.4  
0.2  
0.0



200

150

100

50

113

Incident Energy (MeV)

61-Pm-156

MAT 6176

Radionuclide Production Cross Section

61-Pm-156

