

Program EVALPLOT
(Version 2017-1)

by

Dermott E. Cullen
(Present Contact Information)

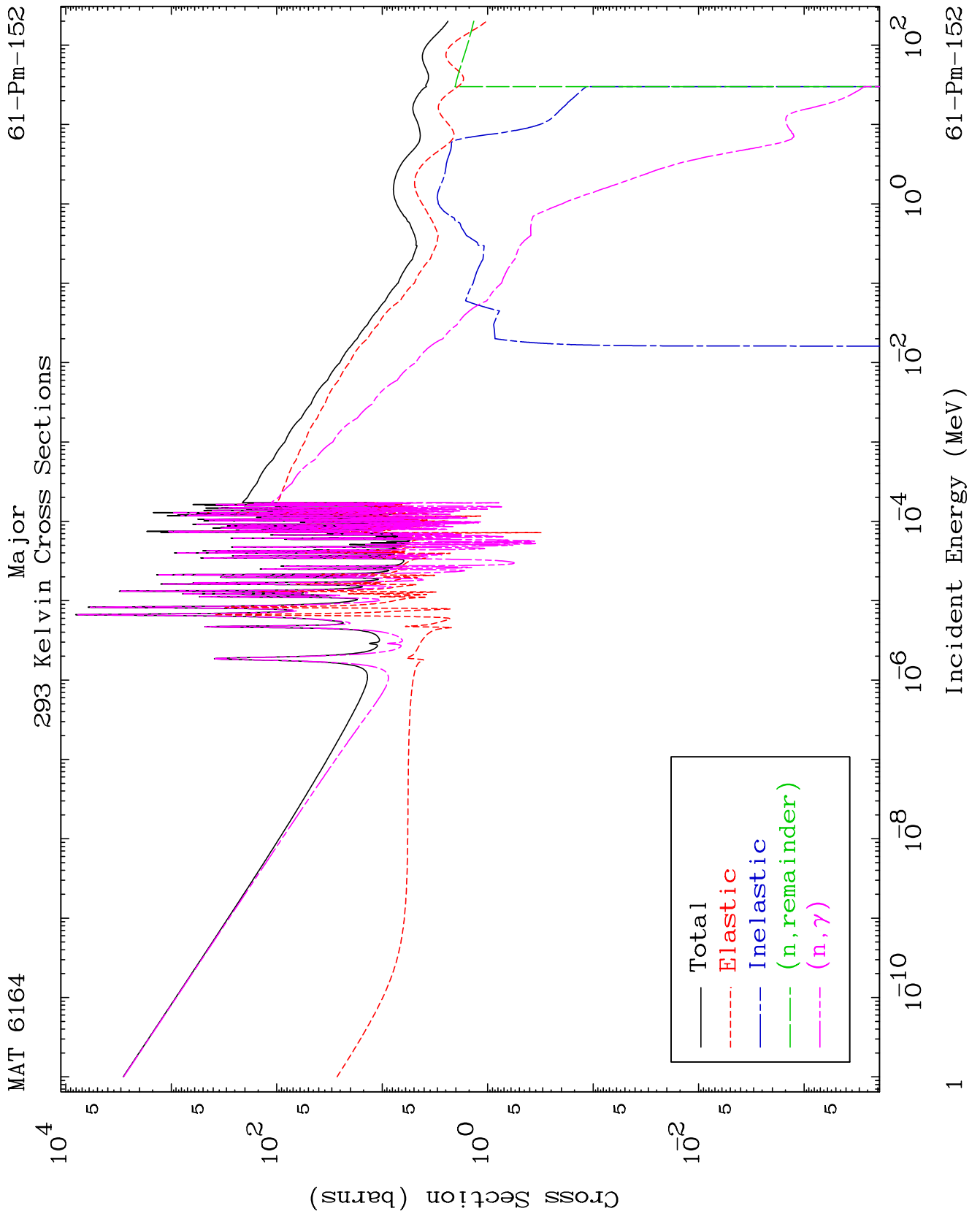
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.

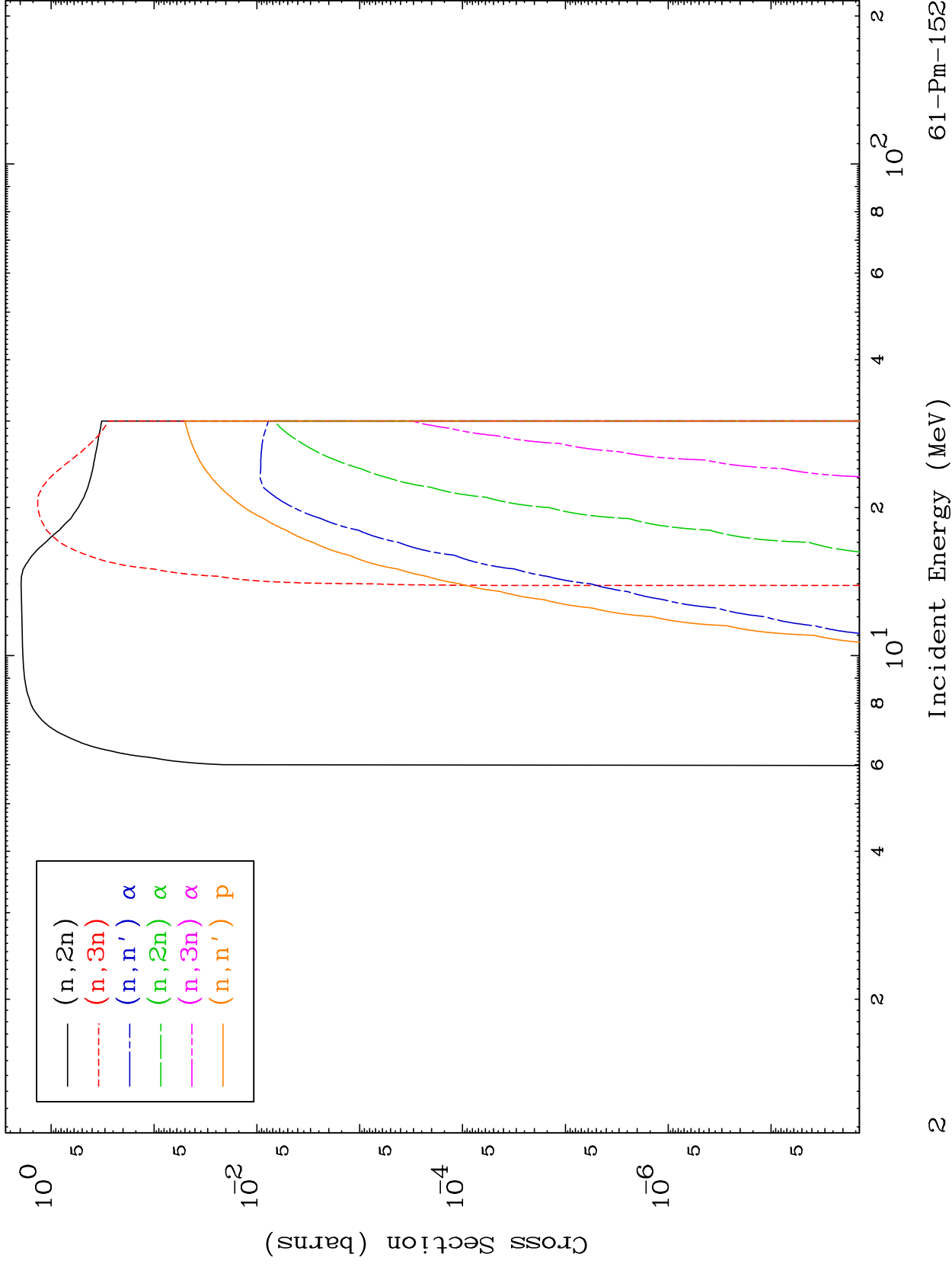
Tele: 925-443-1911

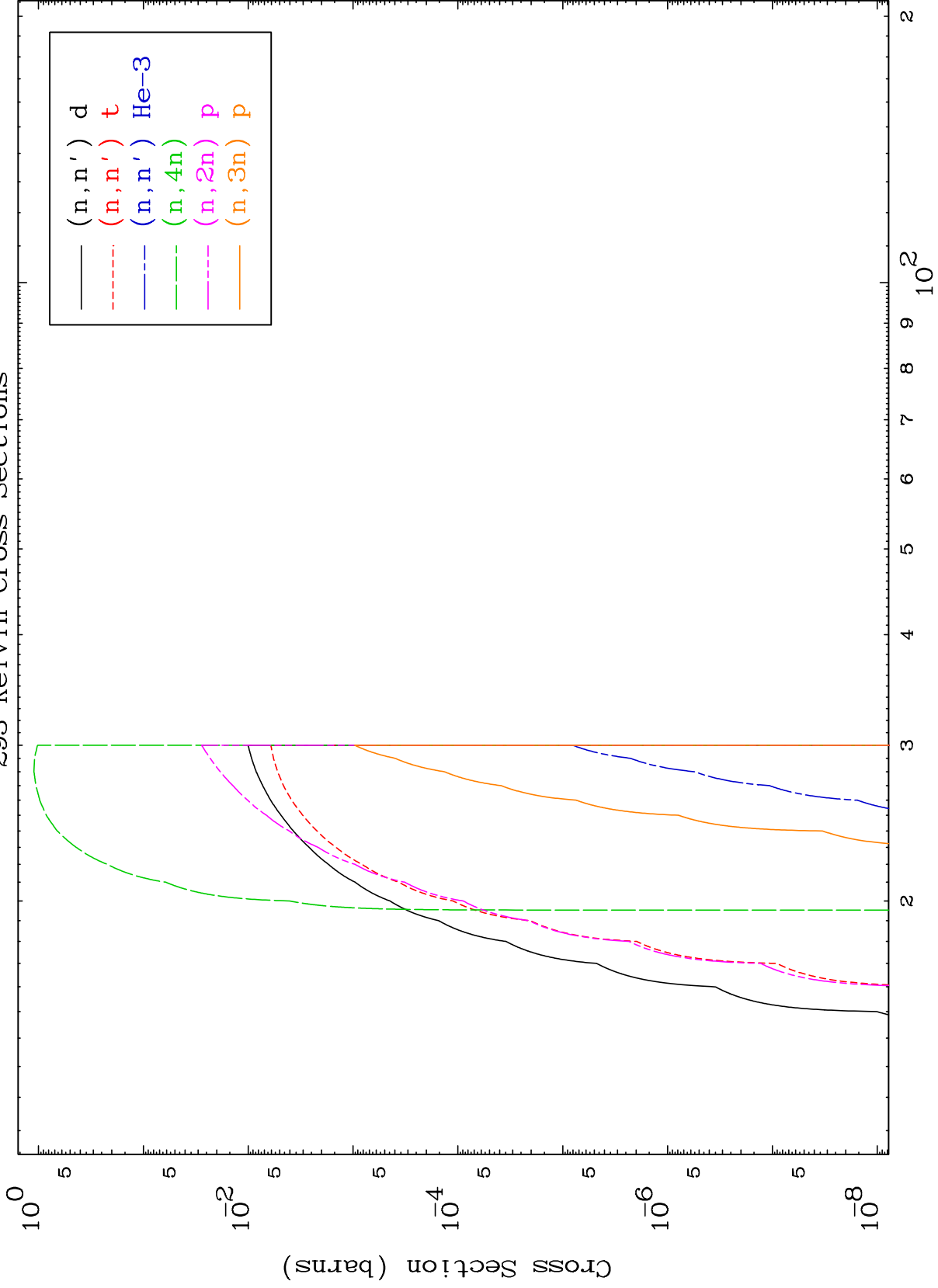
E.Mail:redcullen1@comcast.net

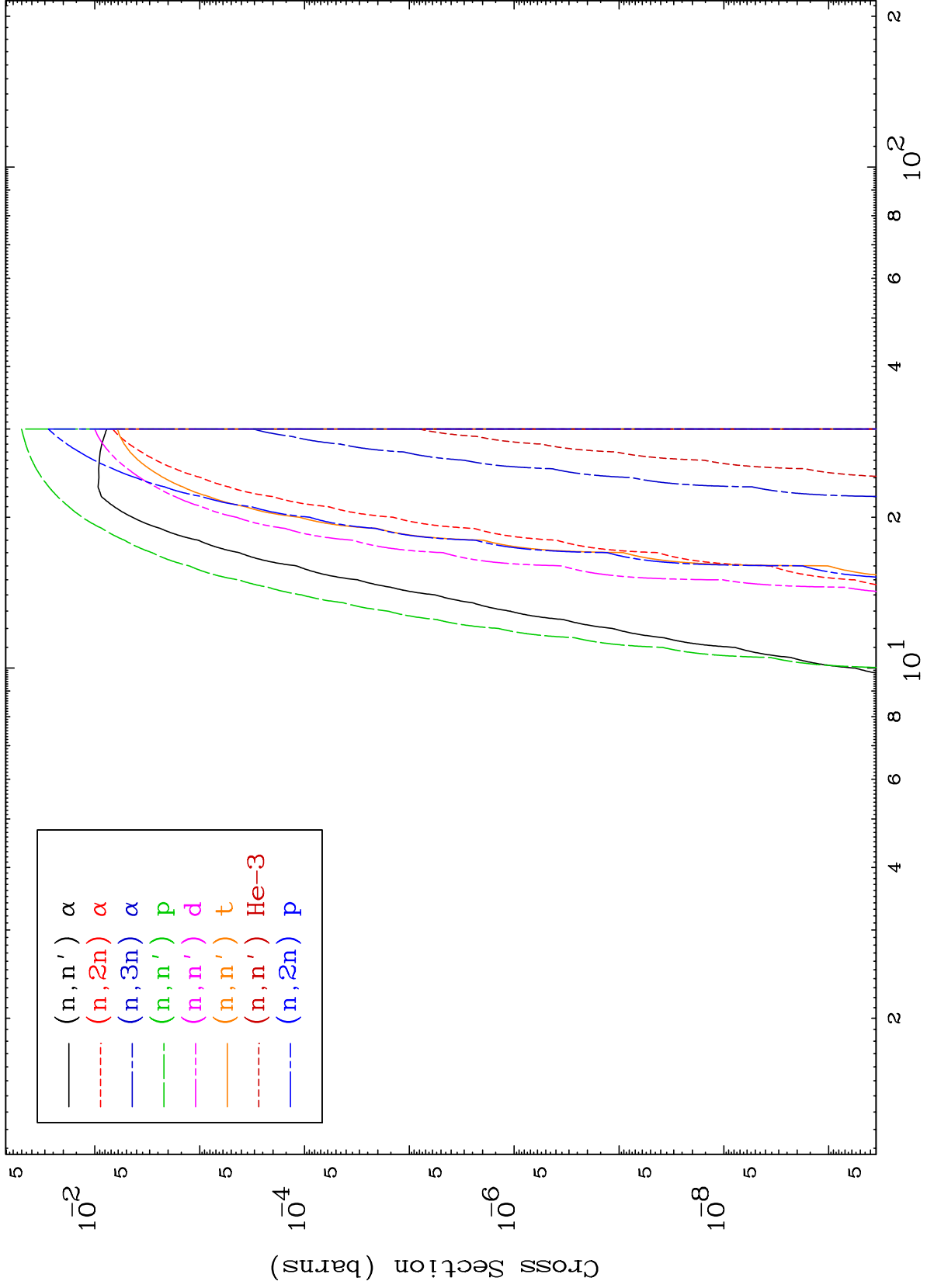
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start





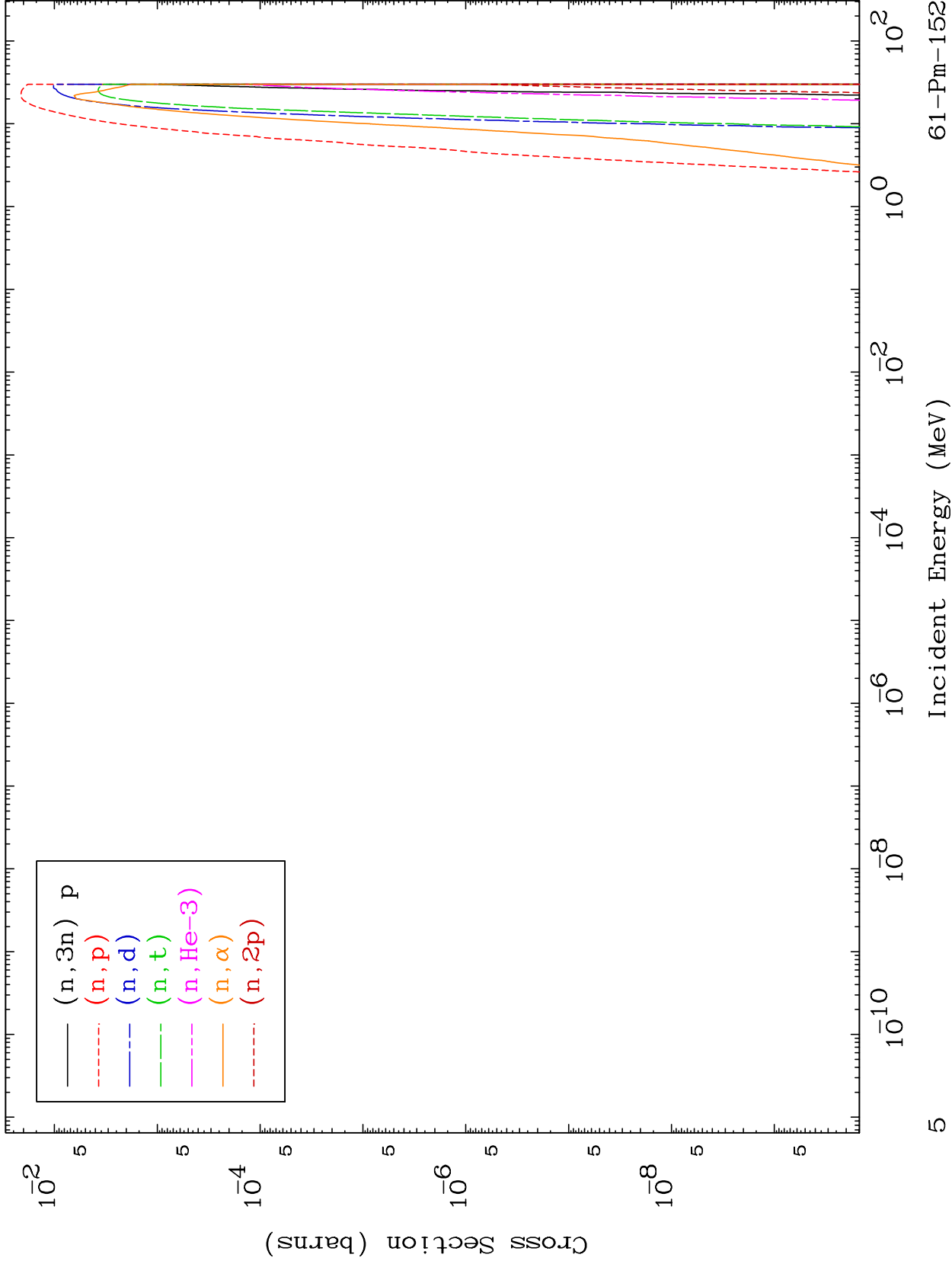




MAT 6164

Charged Particle
293 Kelvin Cross Sections

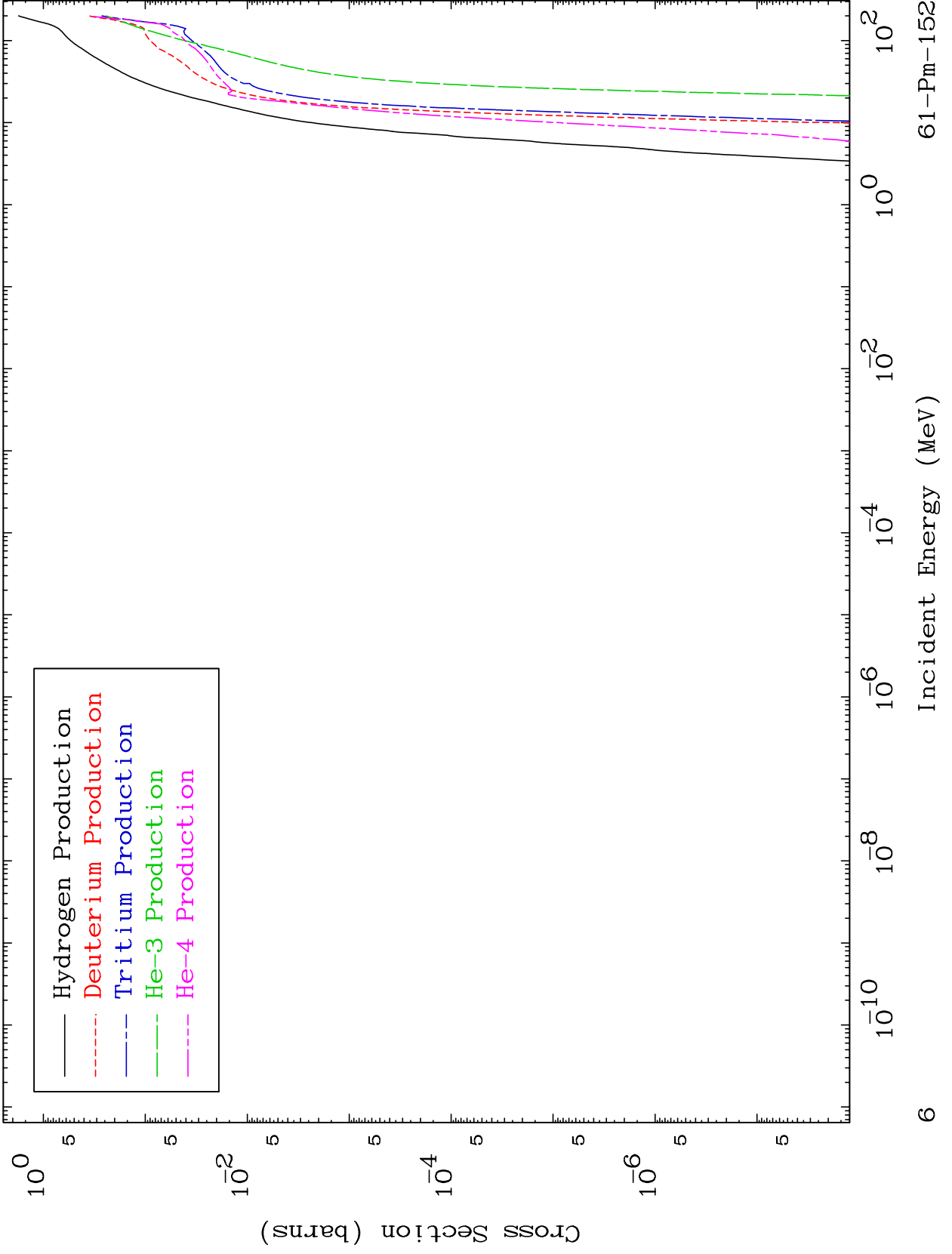
61-Pm-152

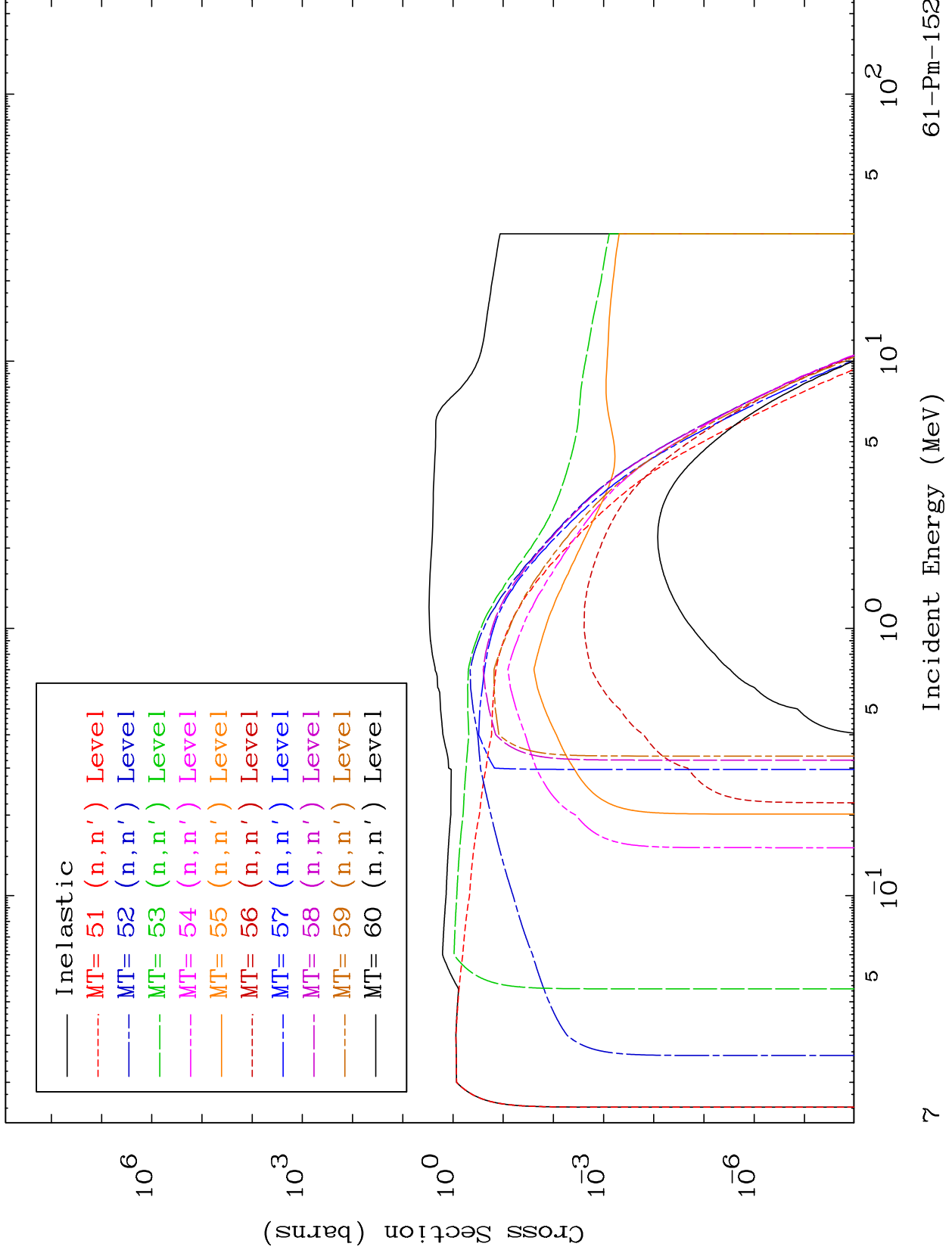


MAT 6164

Particle Production
293 Kelvin Cross Sections

61-Pm-152



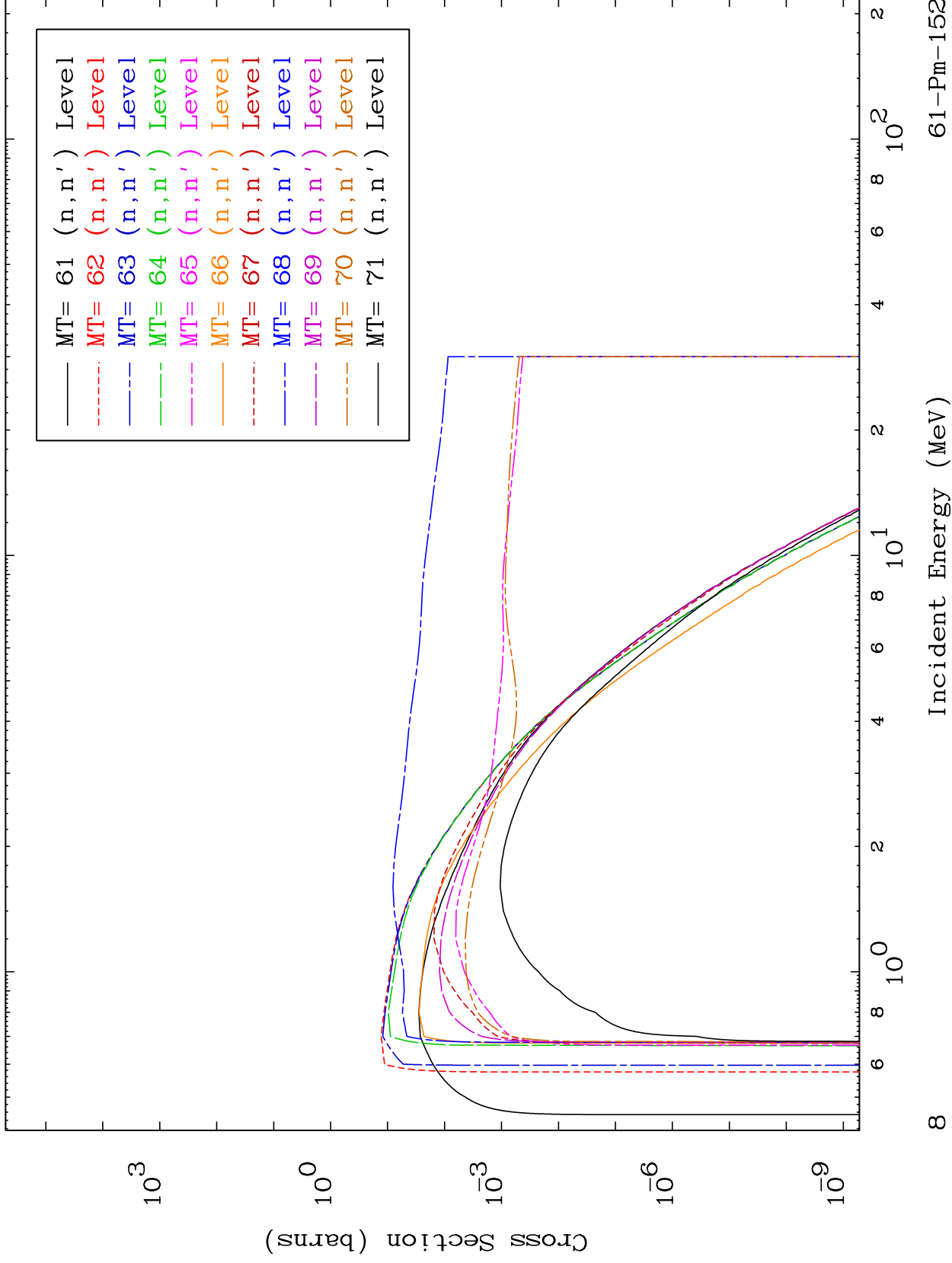


MAT 6164

(n,n') Level

293 Kelvin Cross Sections

61-Pm-152

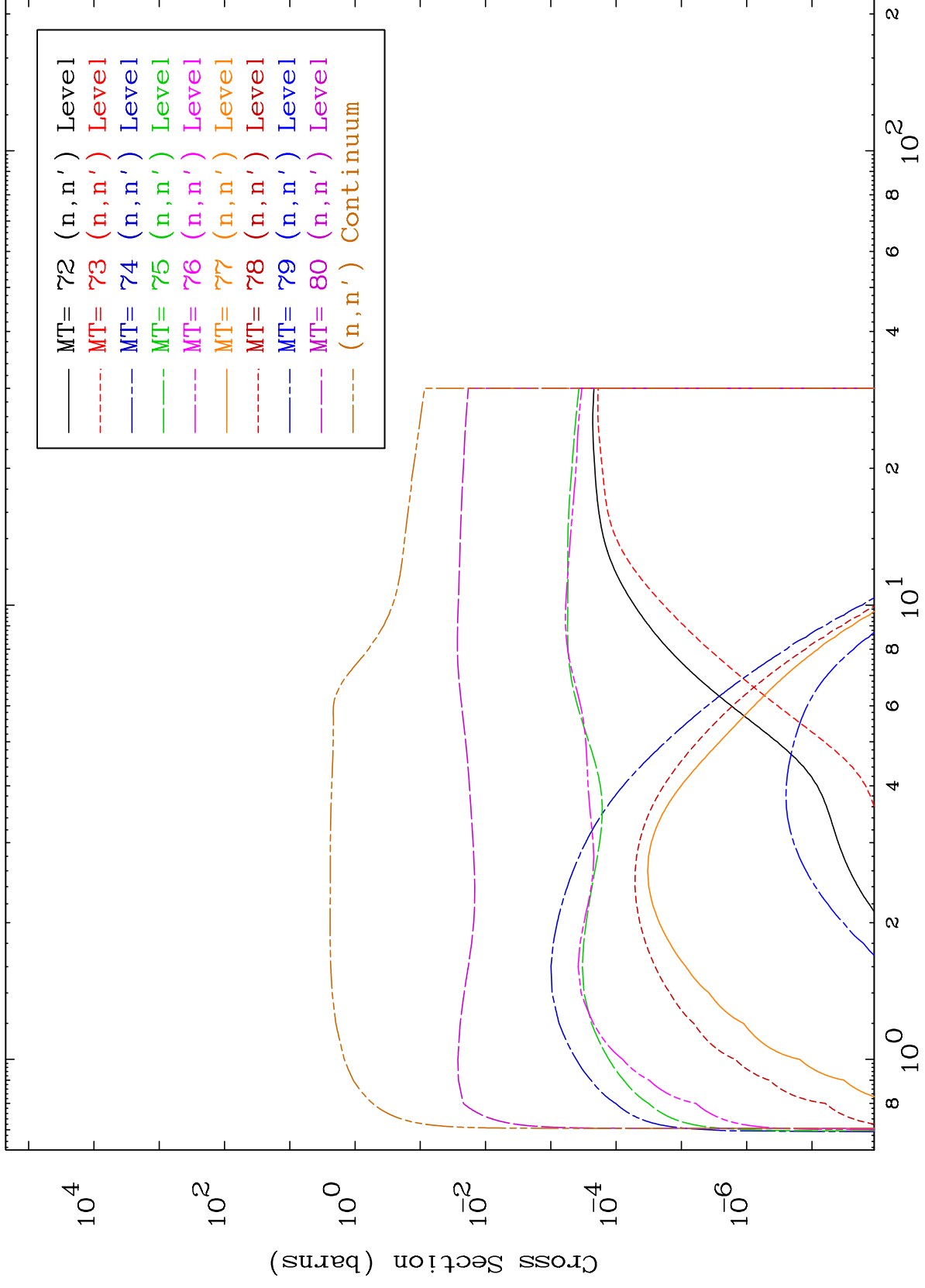


8

Incident Energy (MeV)

61-Pm-152

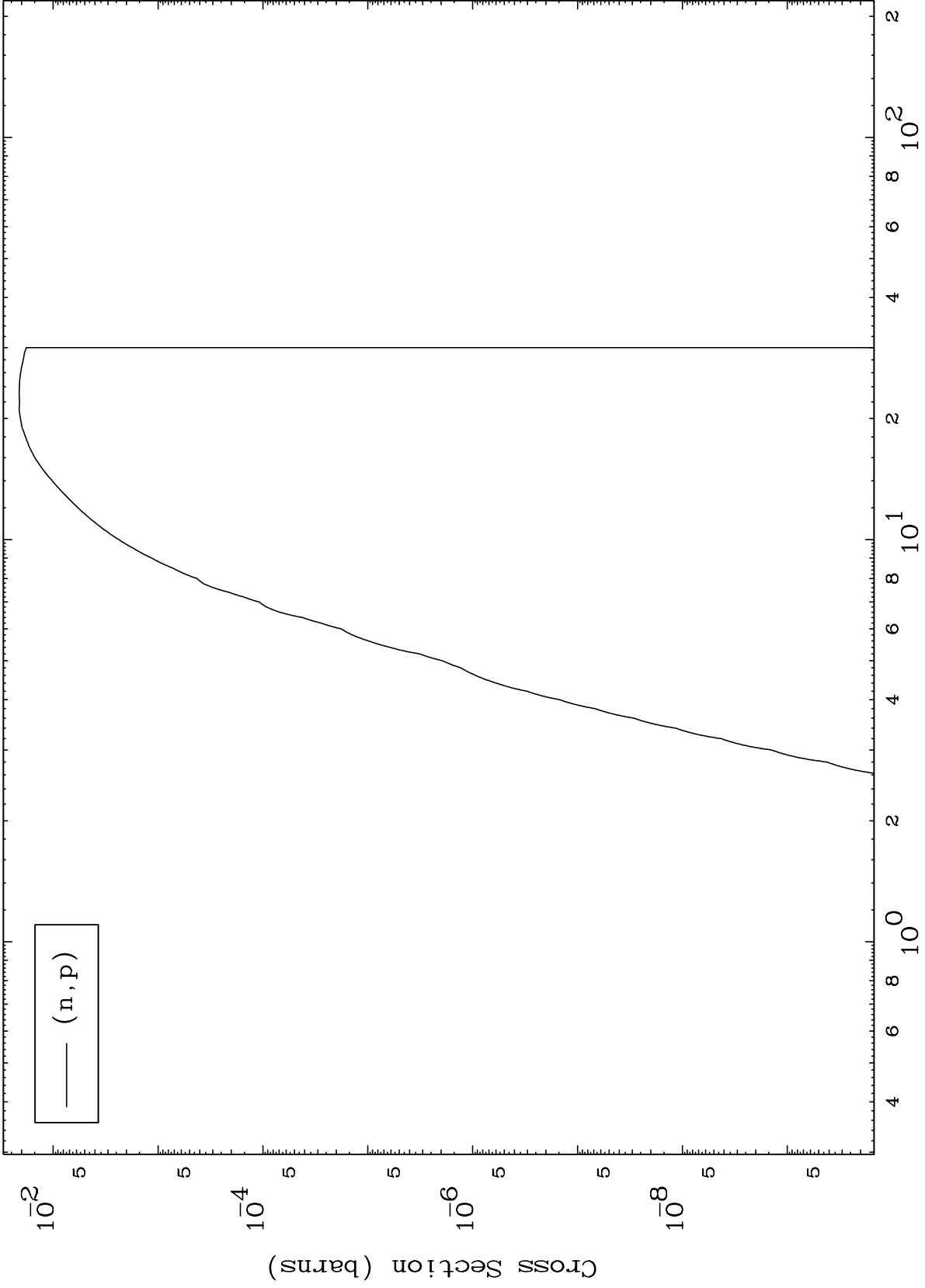
293 Kelvin Cross Sections



MAT 6164

(n,p) Levels
293 Kelvin Cross Sections

61-Pm-152



10

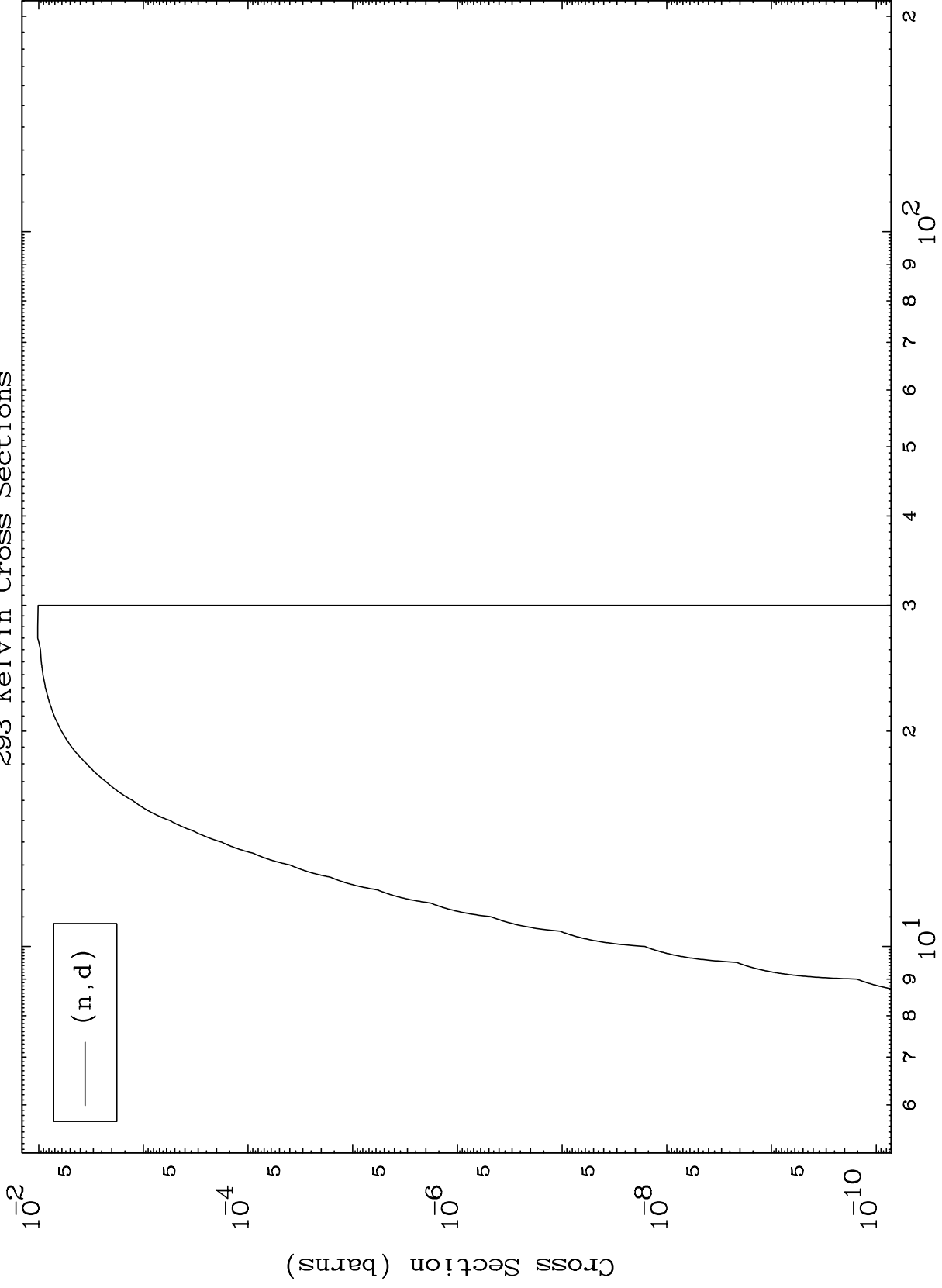
Incident Energy (MeV)

61-Pm-152

MAT 6164

(n,d) Levels
293 Kelvin Cross Sections

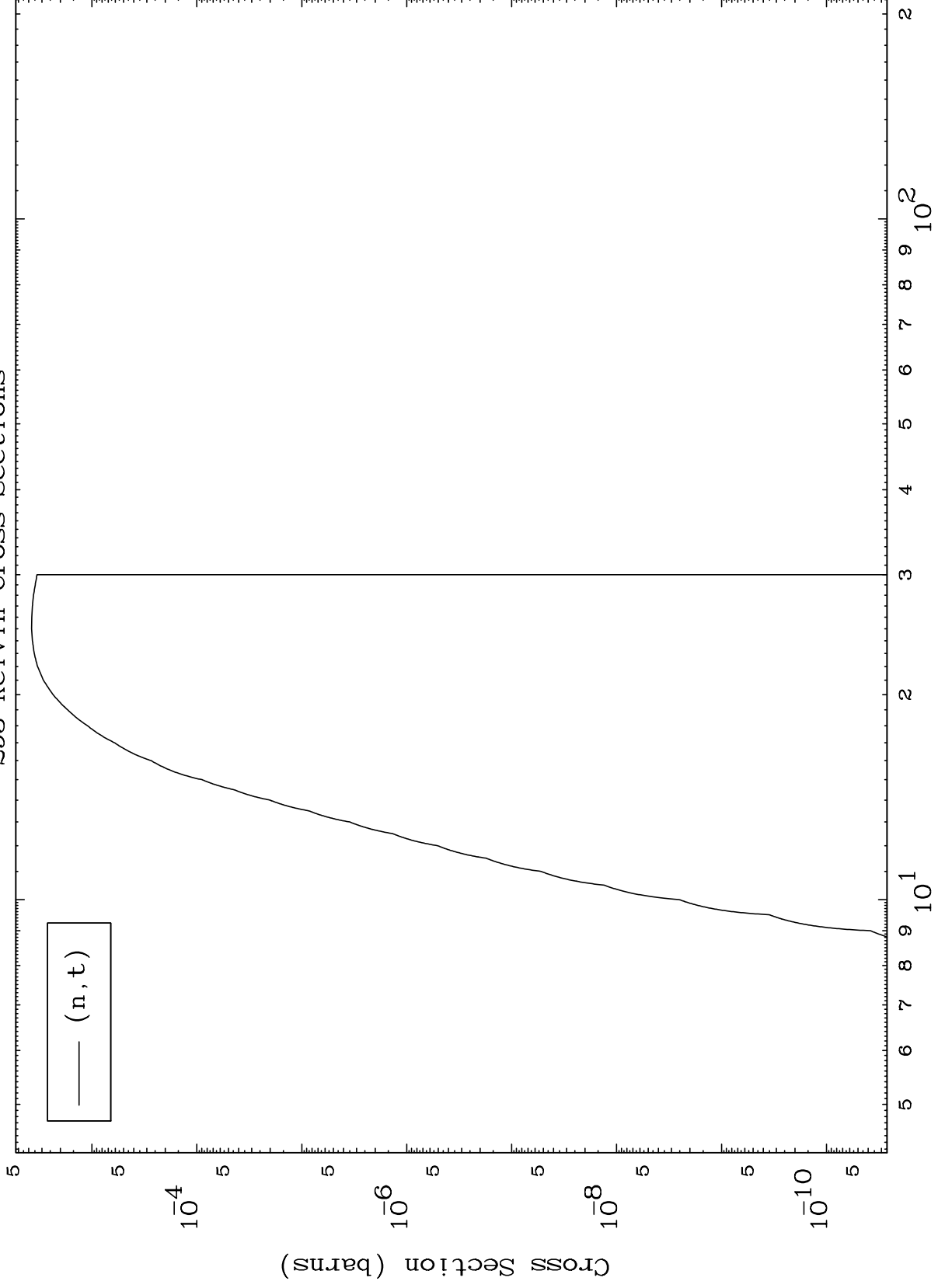
61-Pm-152



MAT 6164

(n,t) Levels
293 Kelvin Cross Sections

61-Pm-152



12

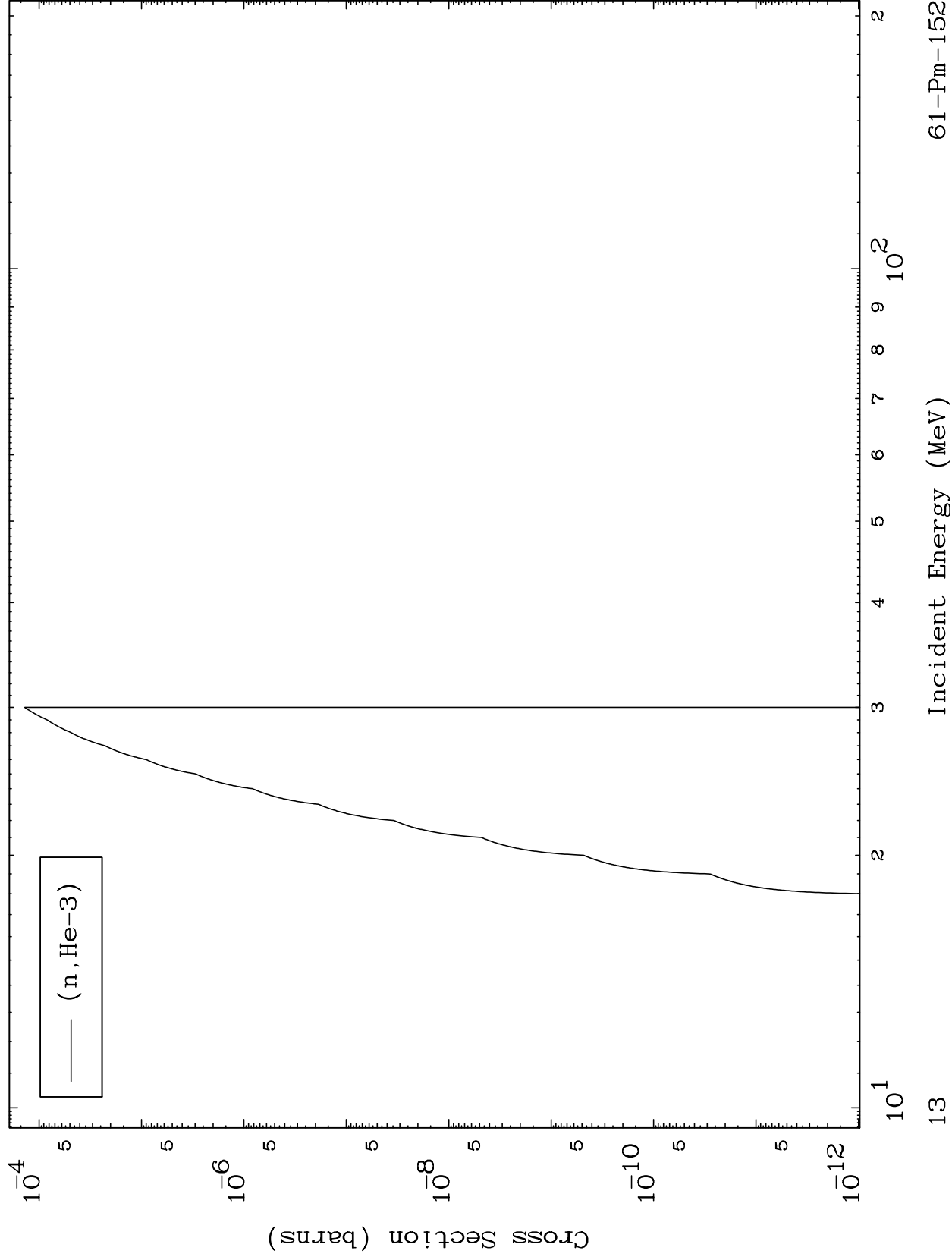
Incident Energy (MeV)

61-Pm-152

MAT 6164

(n,He3) Levels
293 Kelvin Cross Sections

61-Pm-152



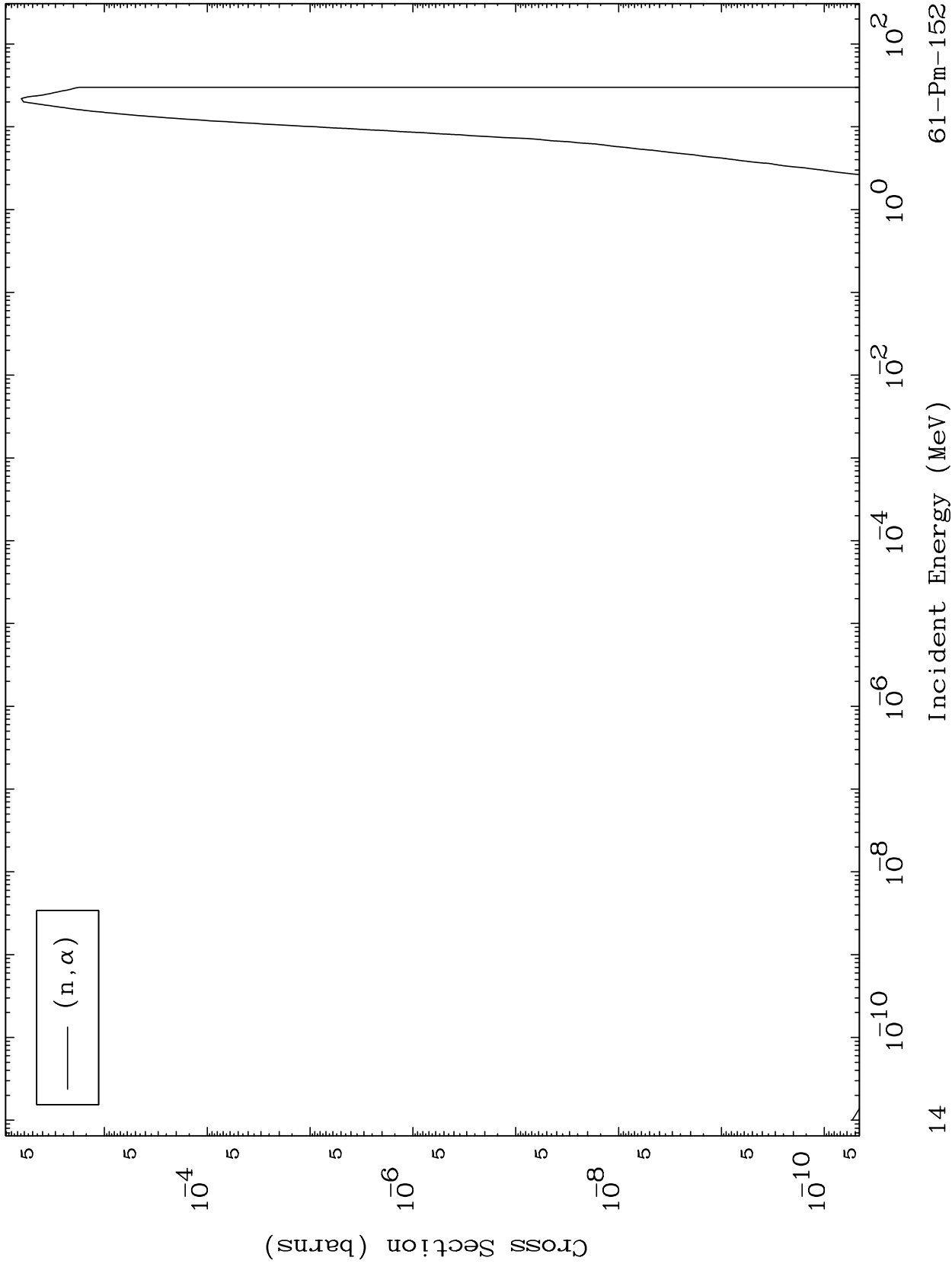
61-Pm-152

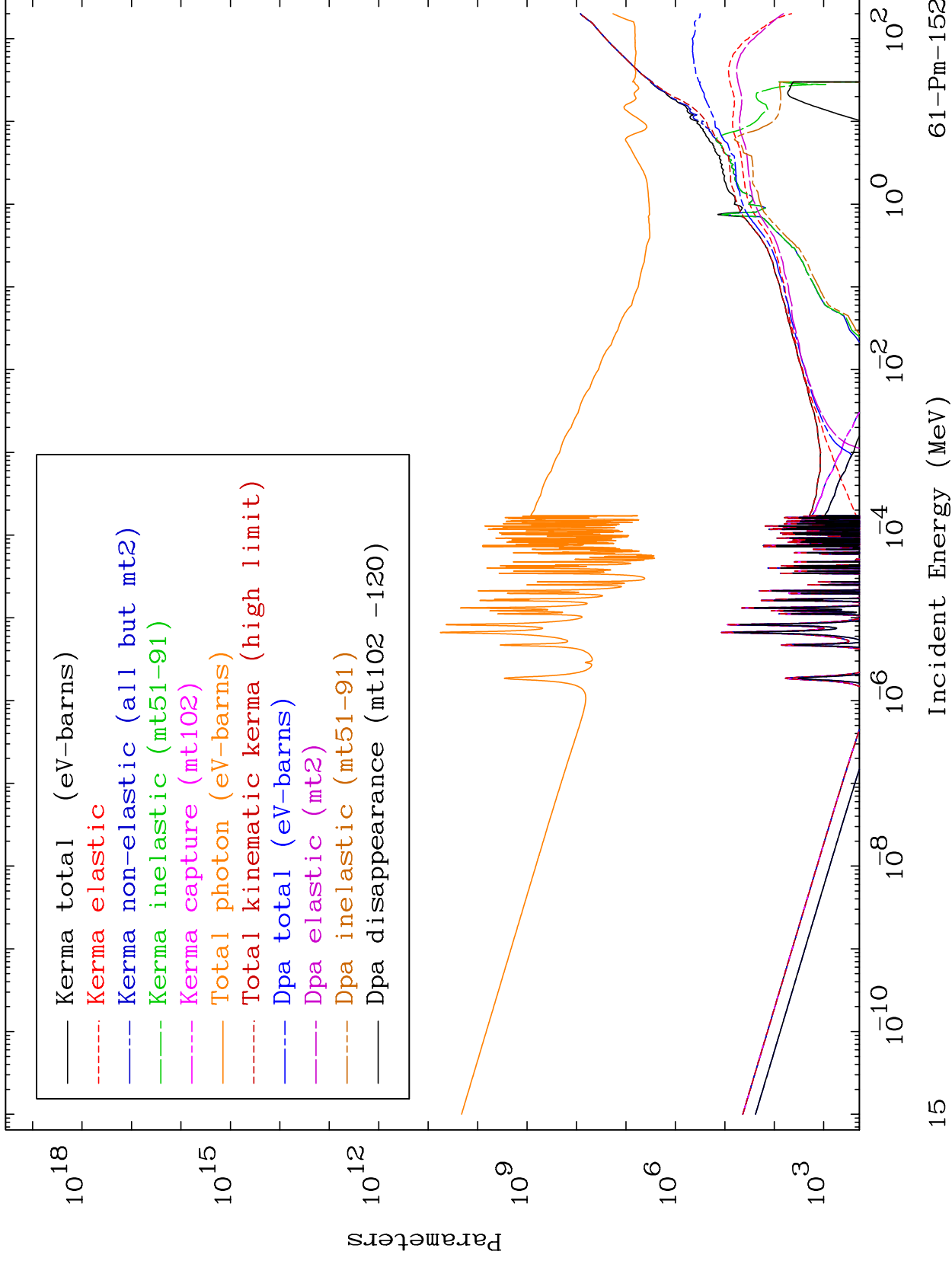
Incident Energy (MeV)

MAT 6164

(n, α) Levels
293 Kelvin Cross Sections

61-Pm-152

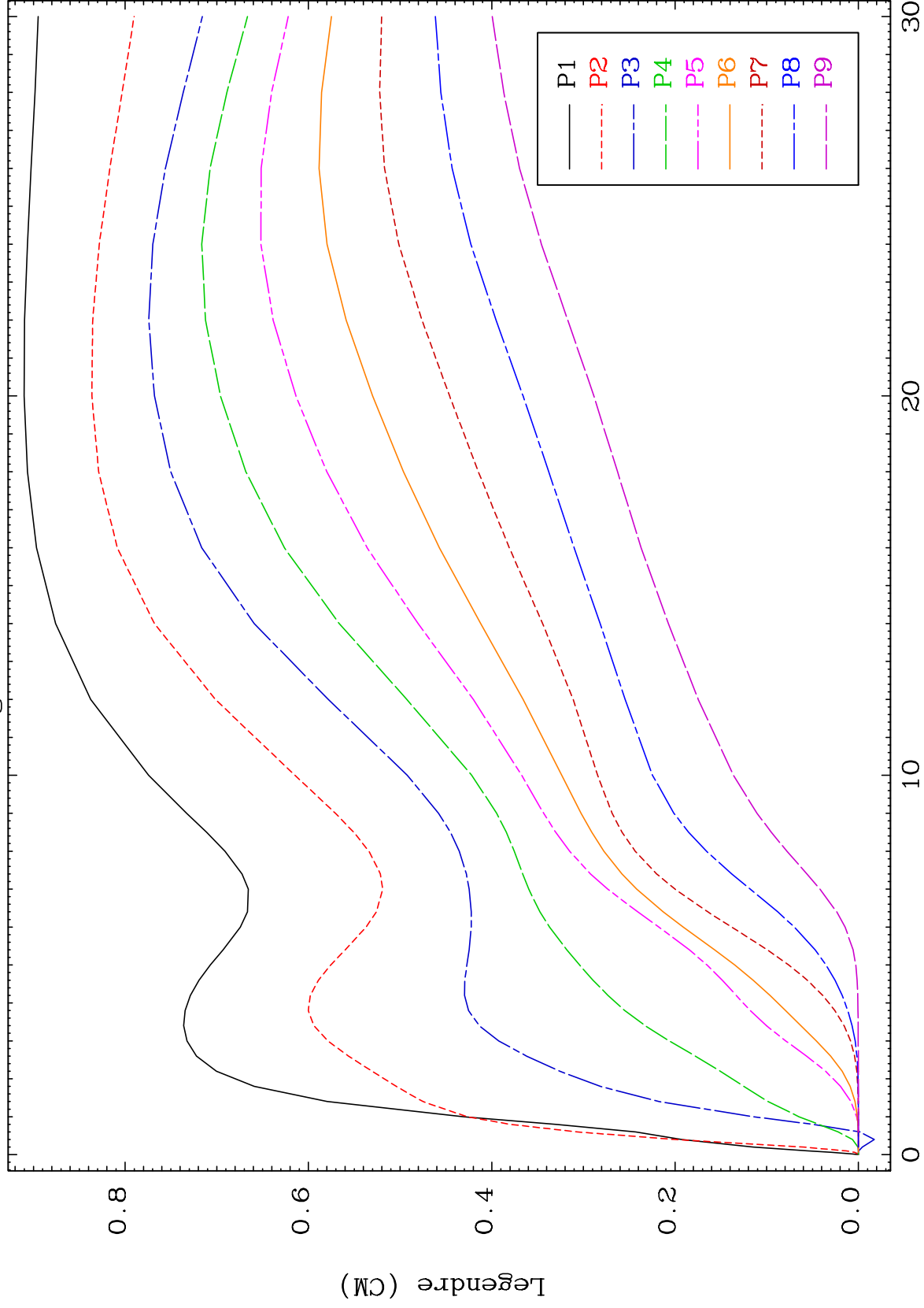




MAT 6164

Elastic Legendre Coefficients

61-Pm-152



16

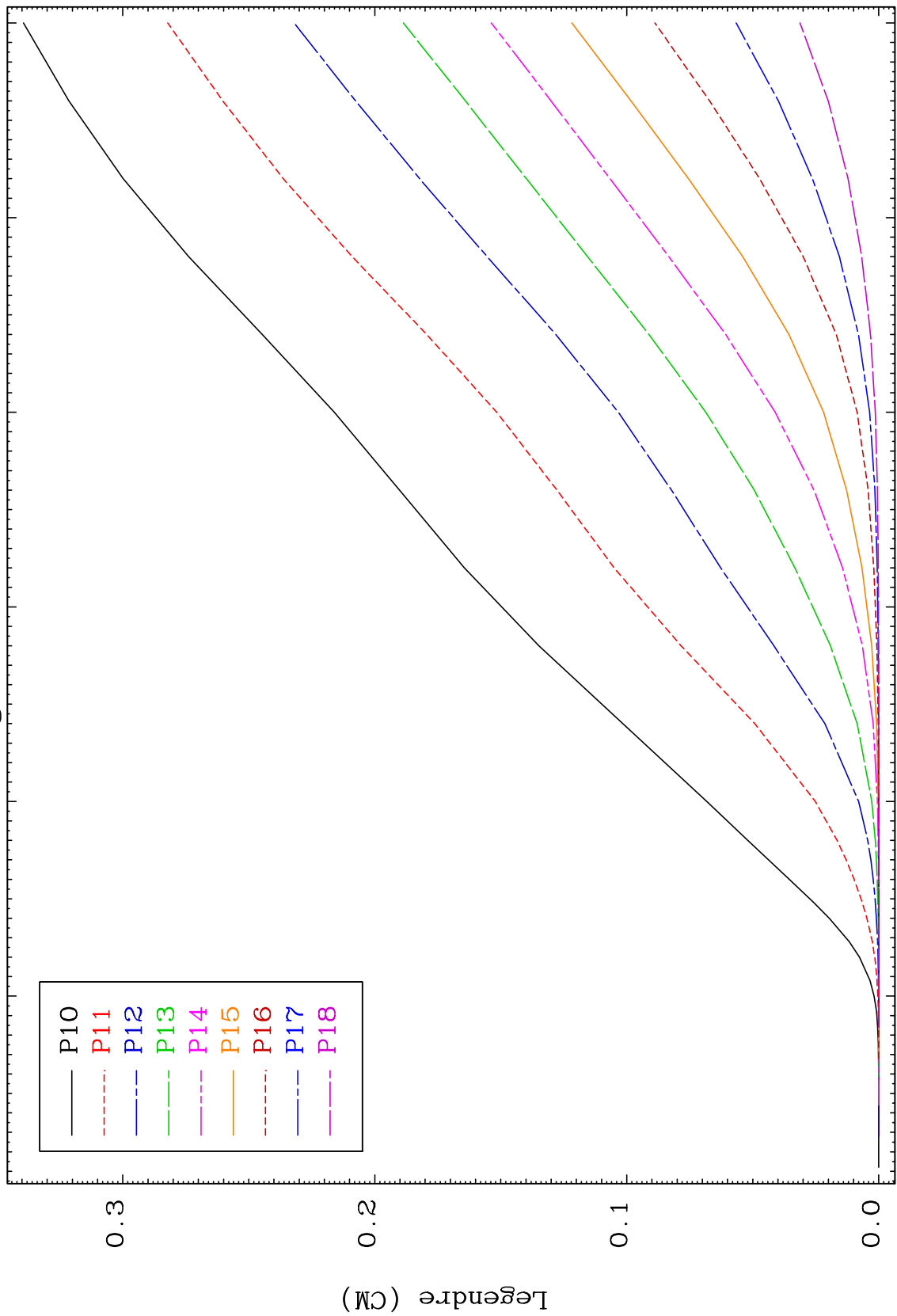
Incident Energy (MeV)

61-Pm-152

MAT 6164

Elastic Legendre Coefficients

61-Pm-152



17

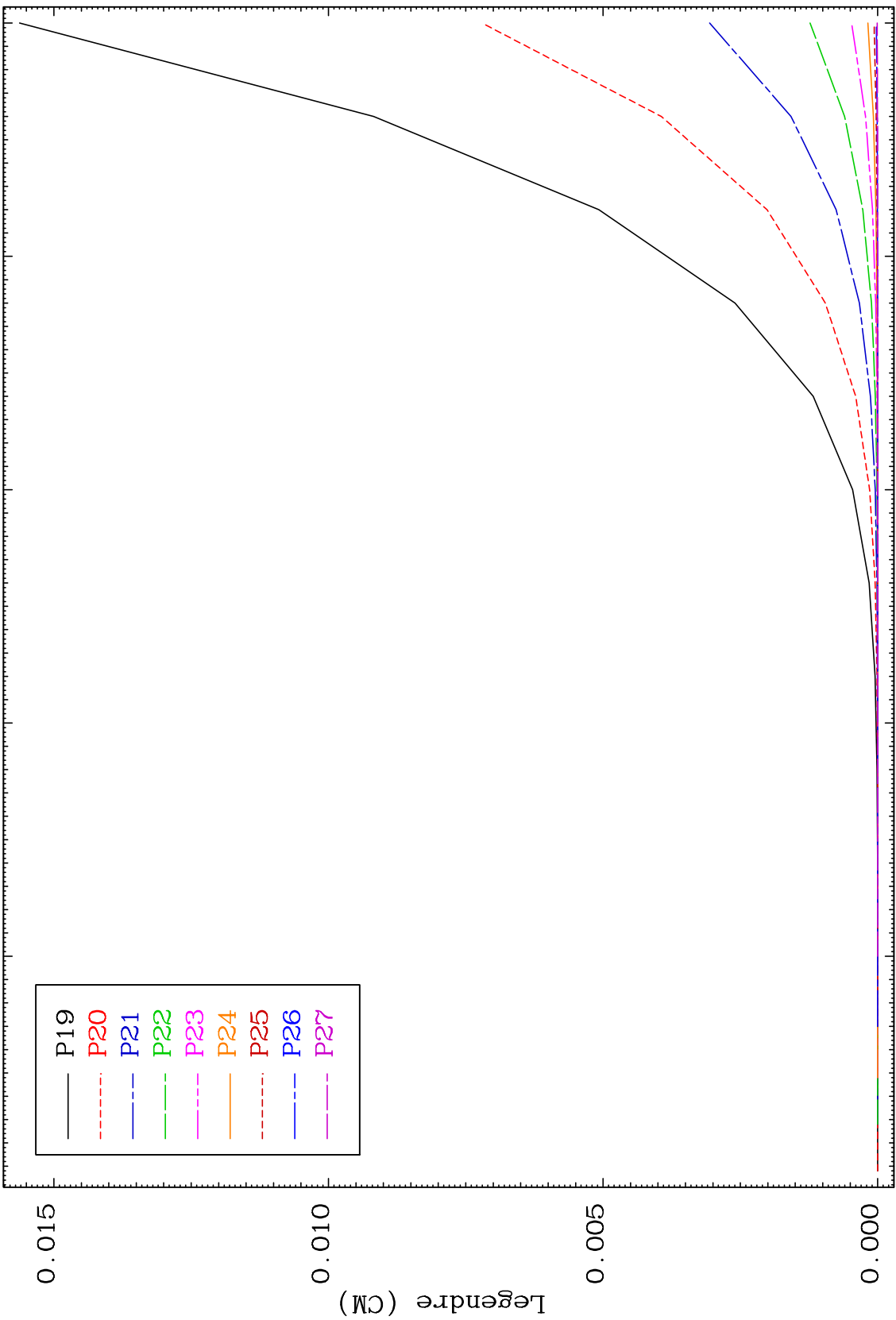
Incident Energy (MeV)

61-Pm-152

MAT 6164

Elastic Legendre Coefficients

61-Pm-152



18

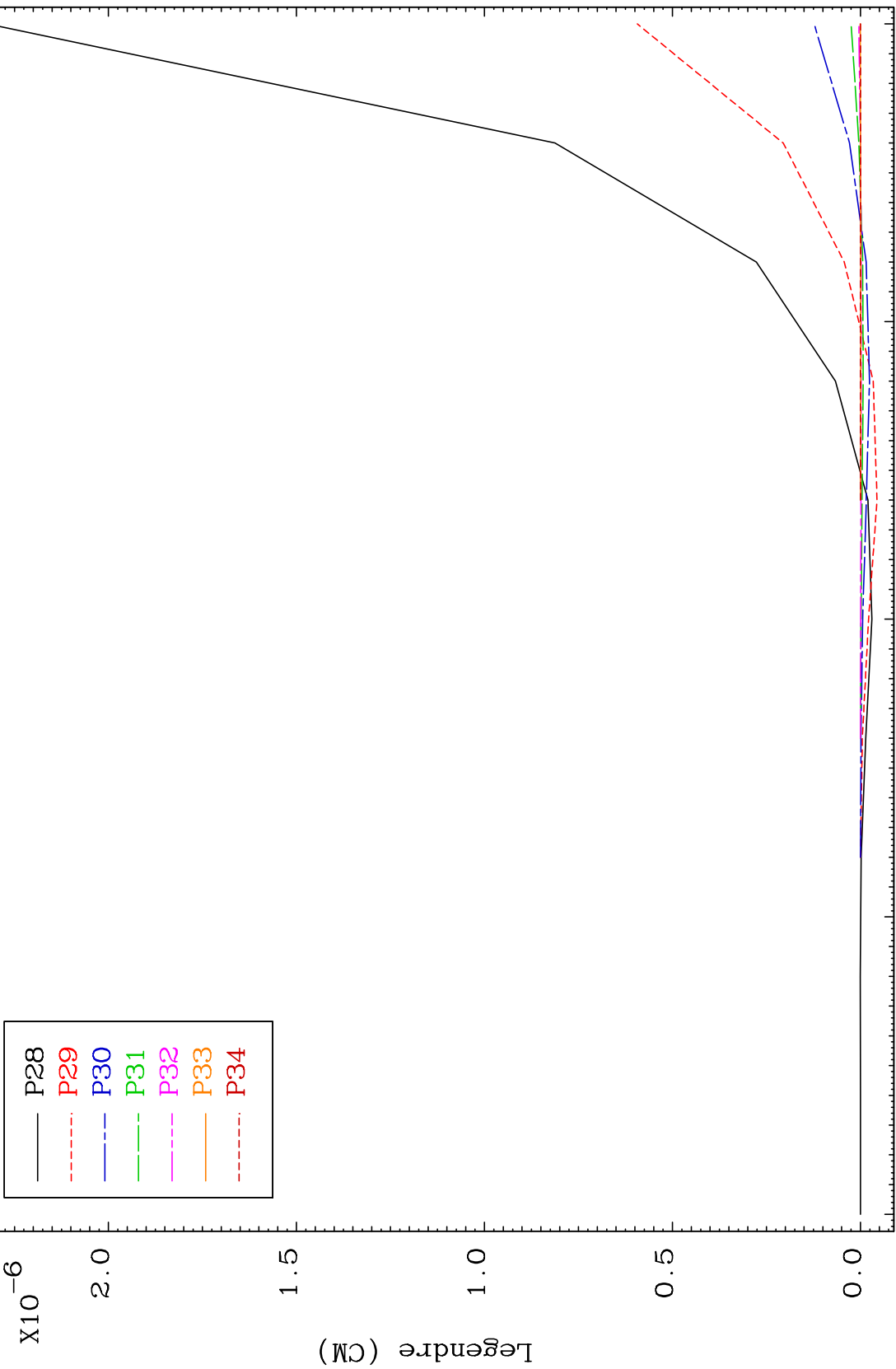
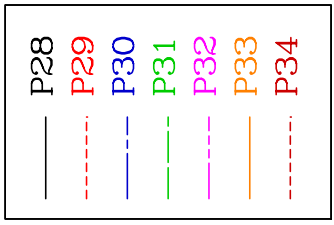
Incident Energy (MeV)

61-Pm-152

MAT 6164

Elastic Legendre Coefficients

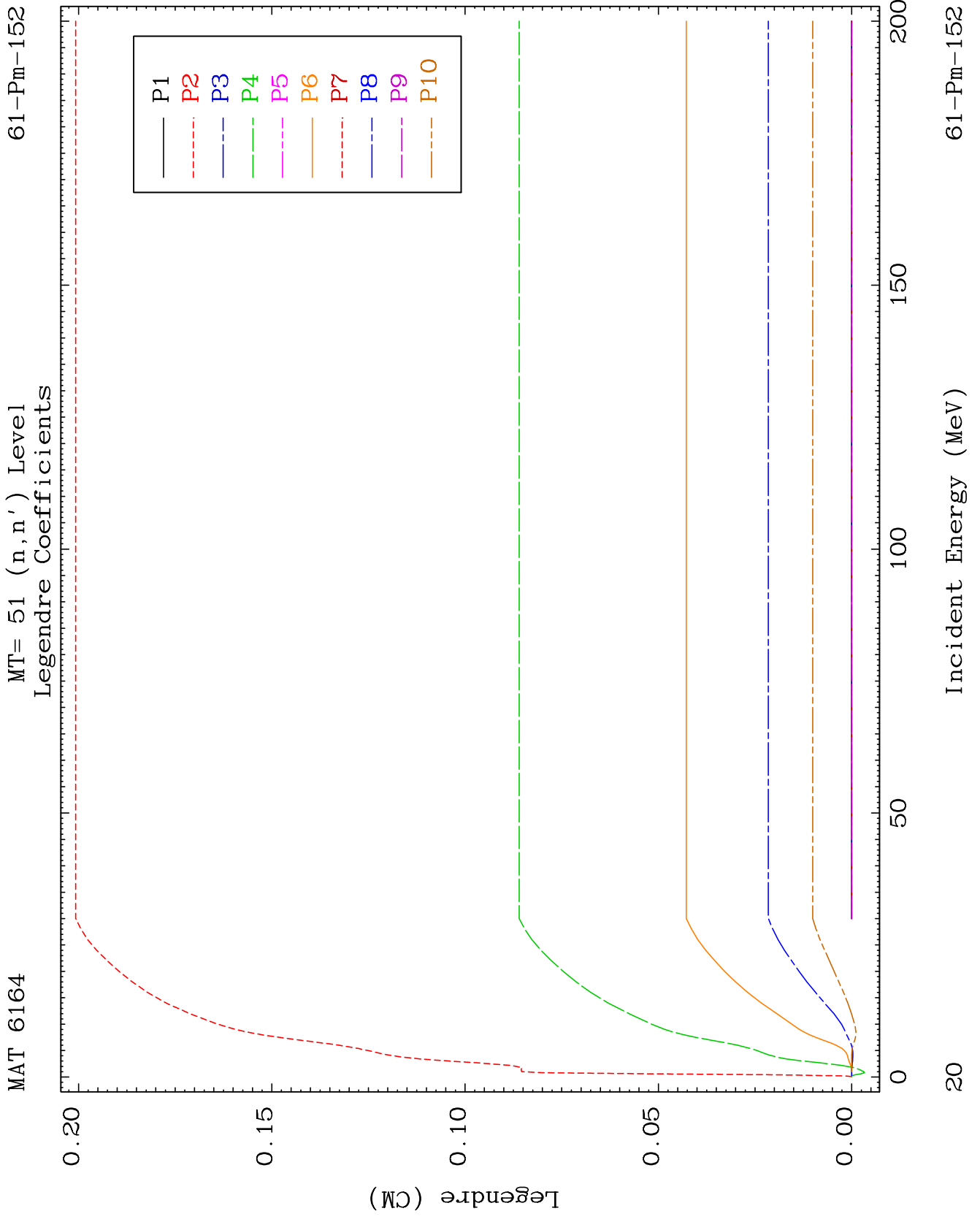
61-Pm-152

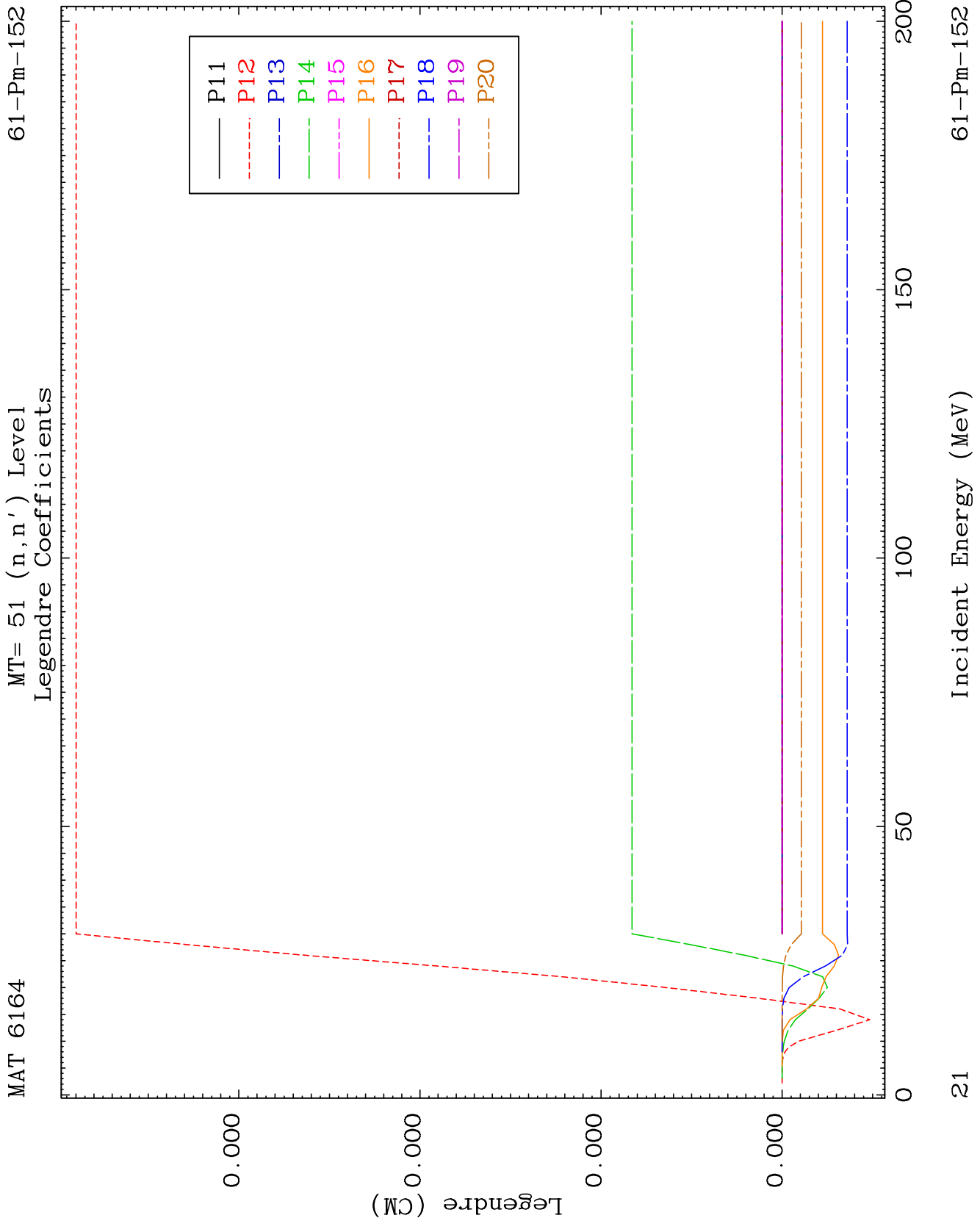


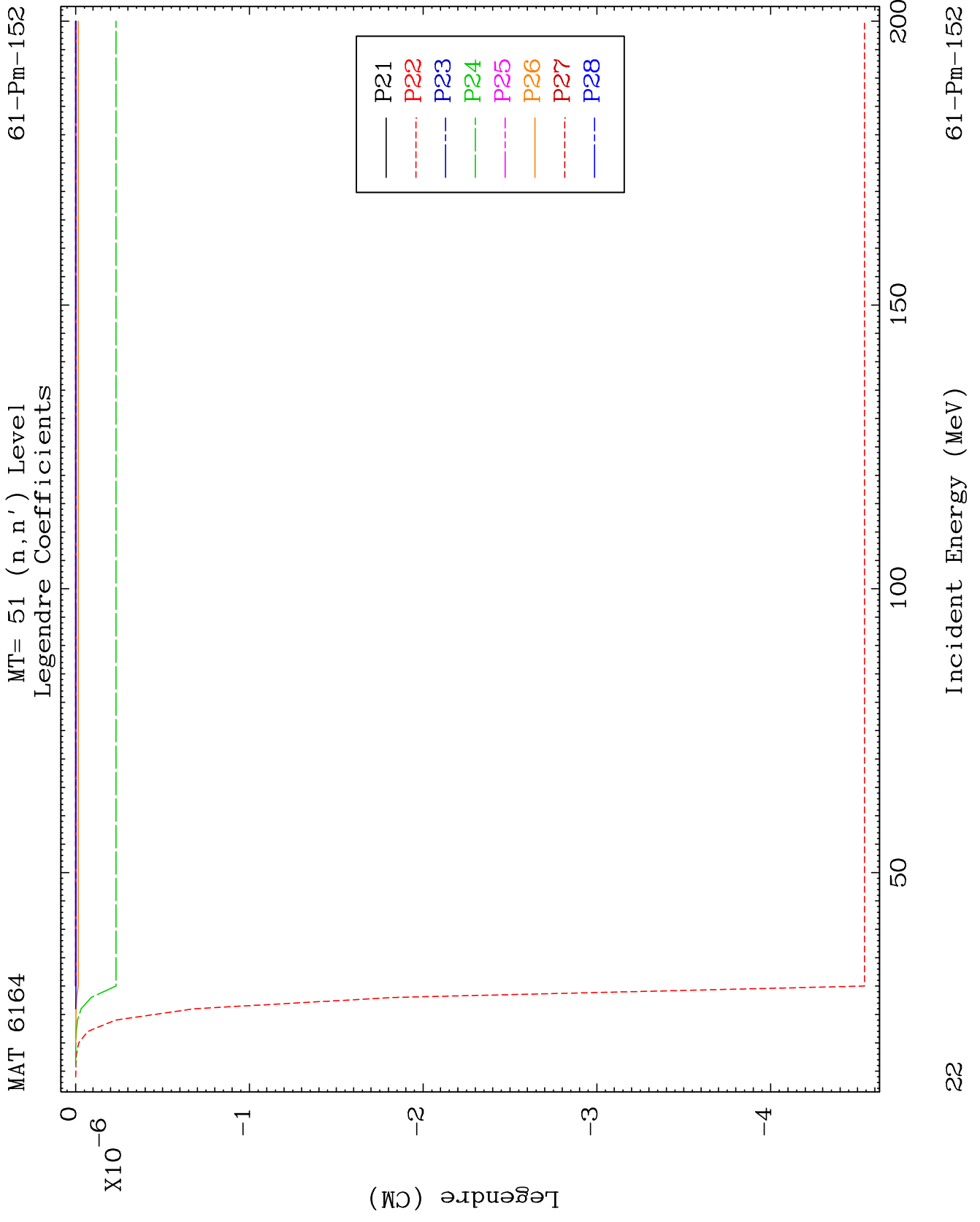
19

Incident Energy (MeV)

61-Pm-152



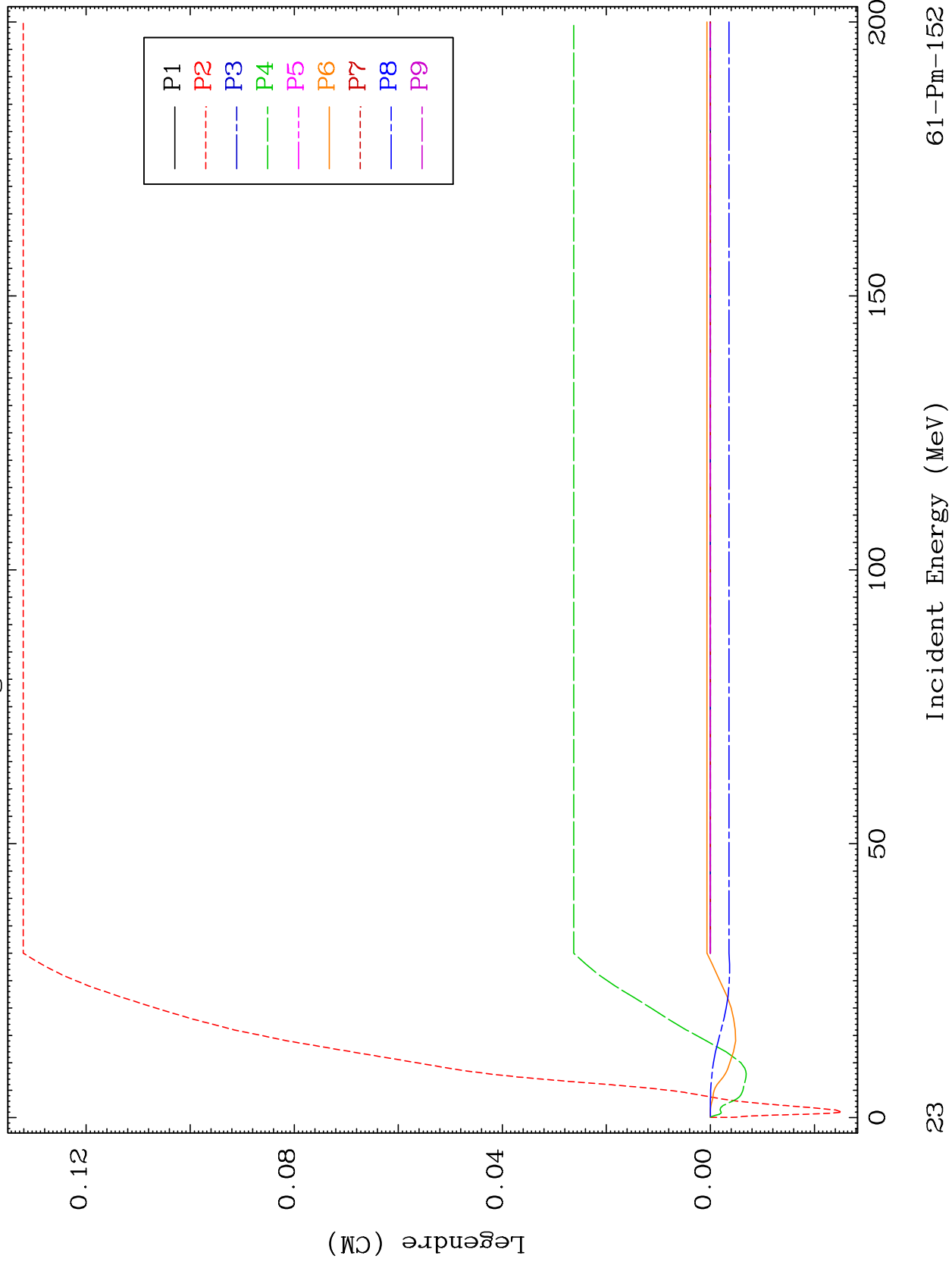




MAT 6164

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

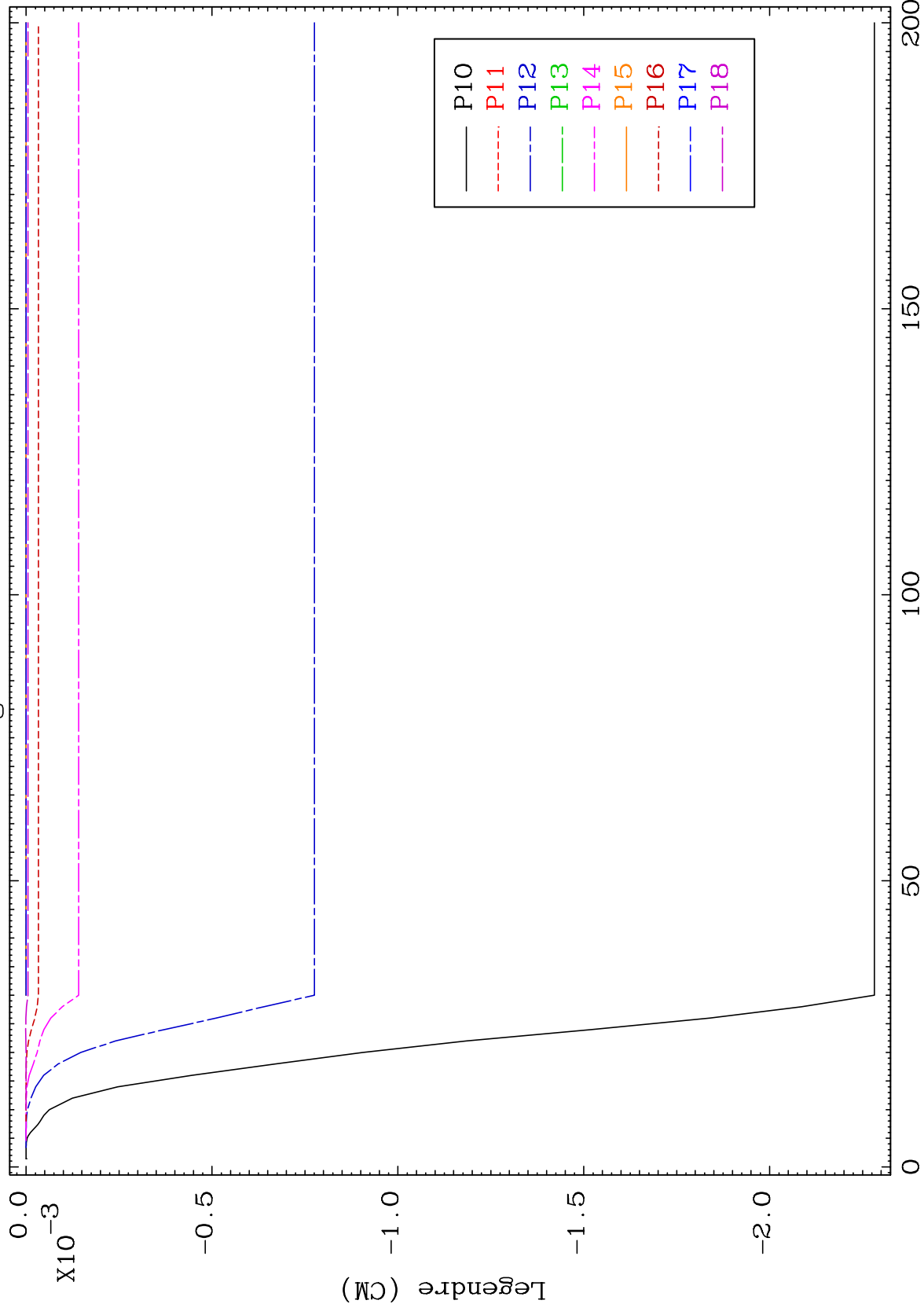
61-Pm-152



MAT 6164

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

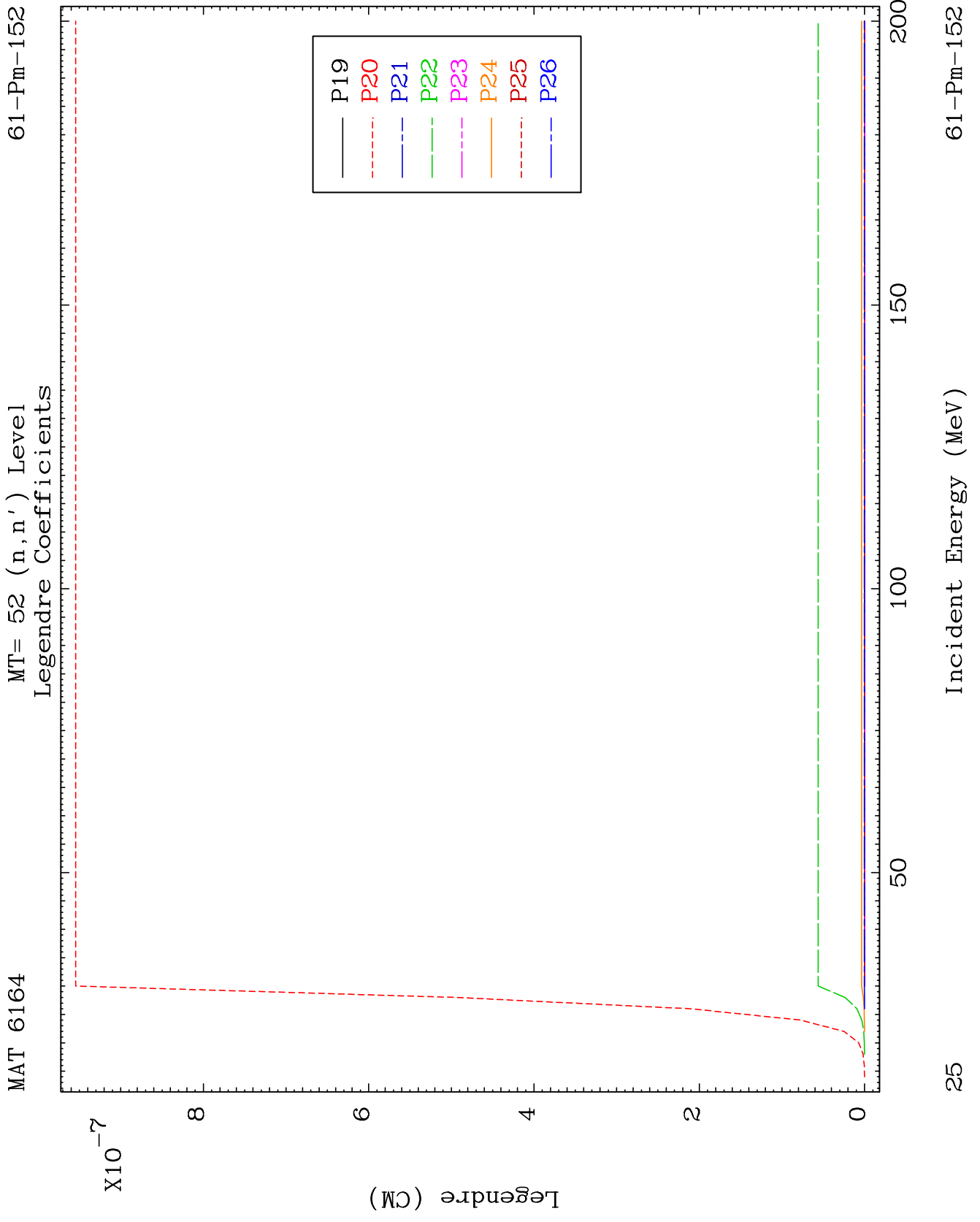
61-Pm-152



24

Incident Energy (MeV)

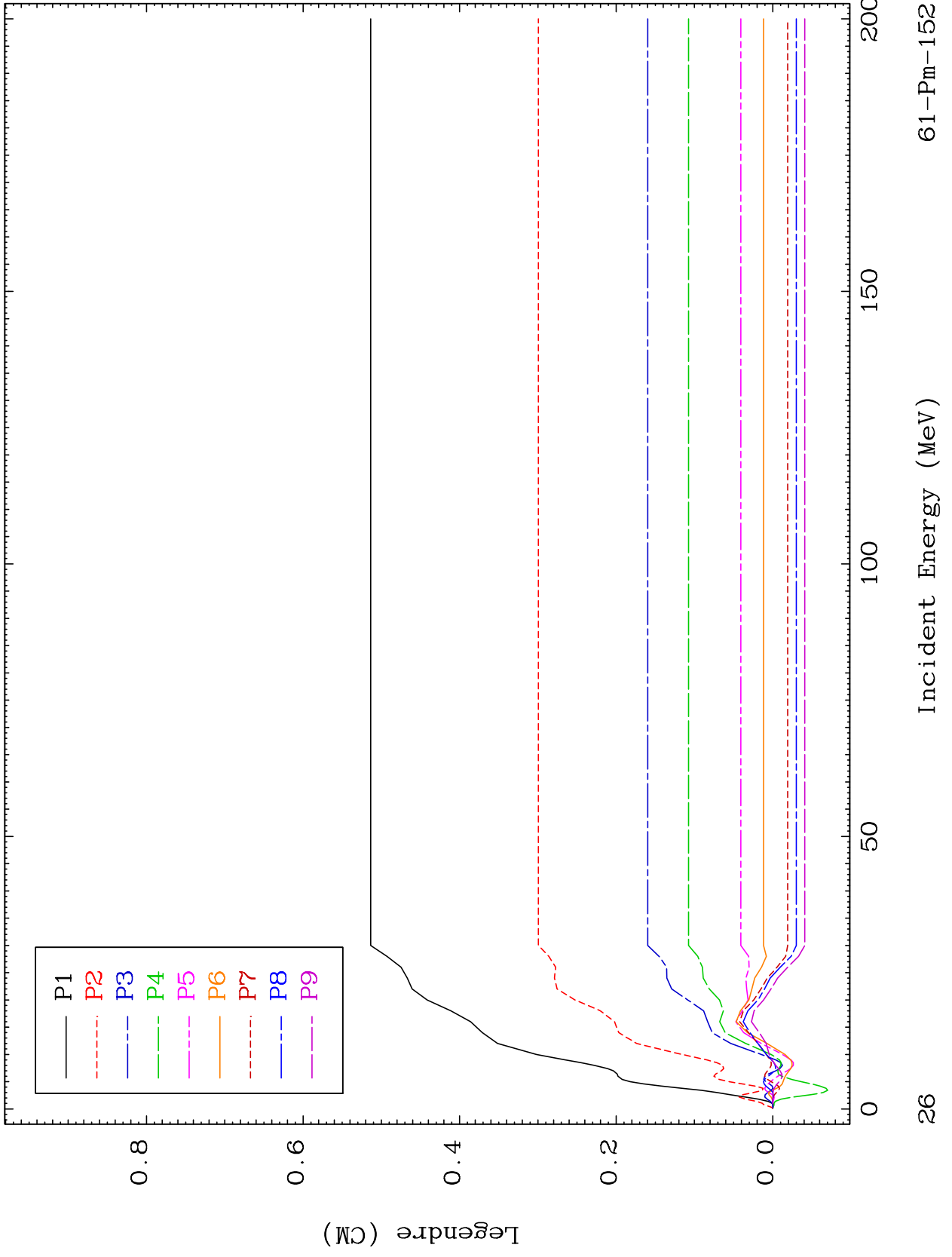
61-Pm-152



MAT 6164

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

61-Pm-152

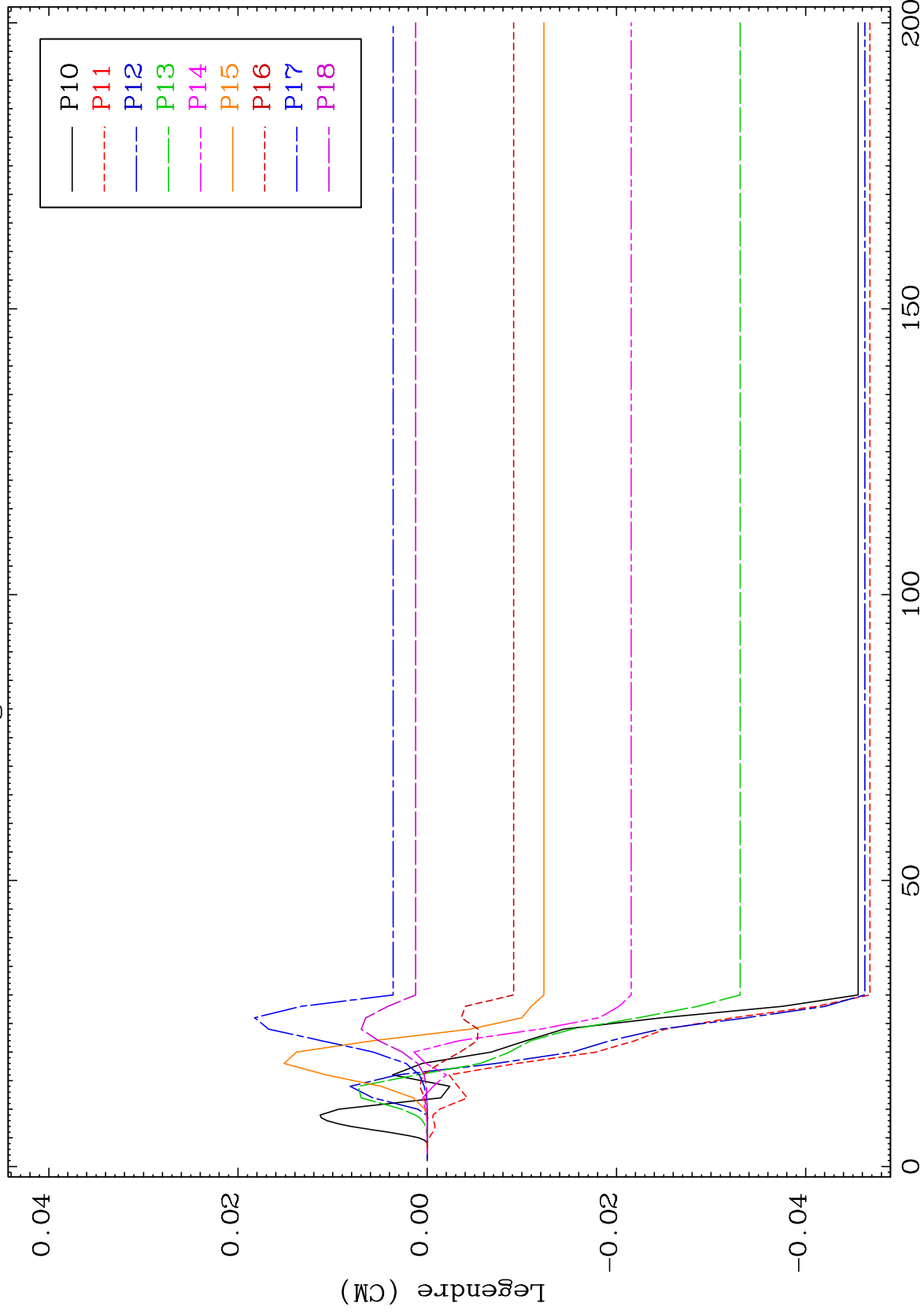


26

MAT 6164

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

61-Pm-152



27

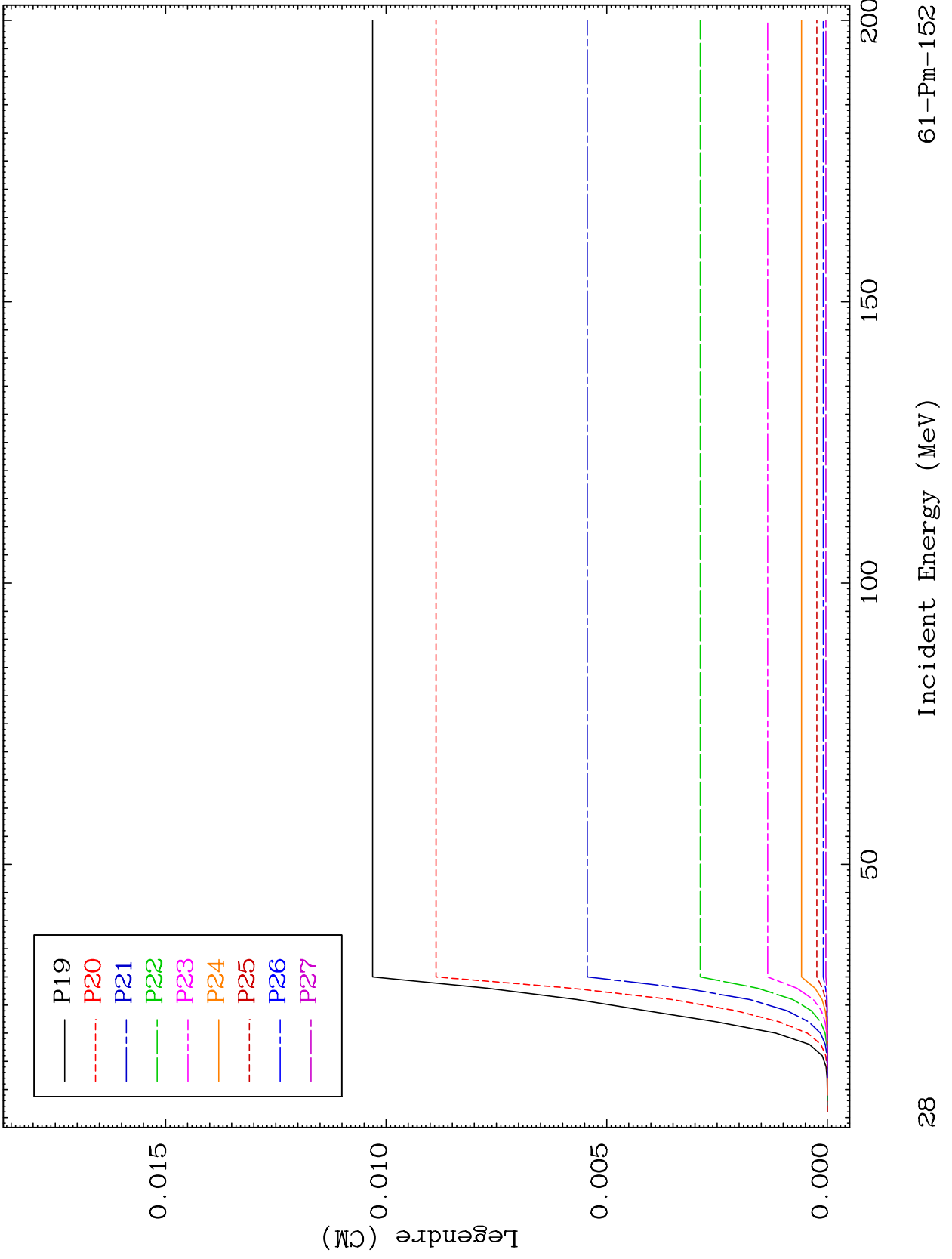
Incident Energy (MeV)

61-Pm-152

MAT 6164

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

61-Pm-152



28

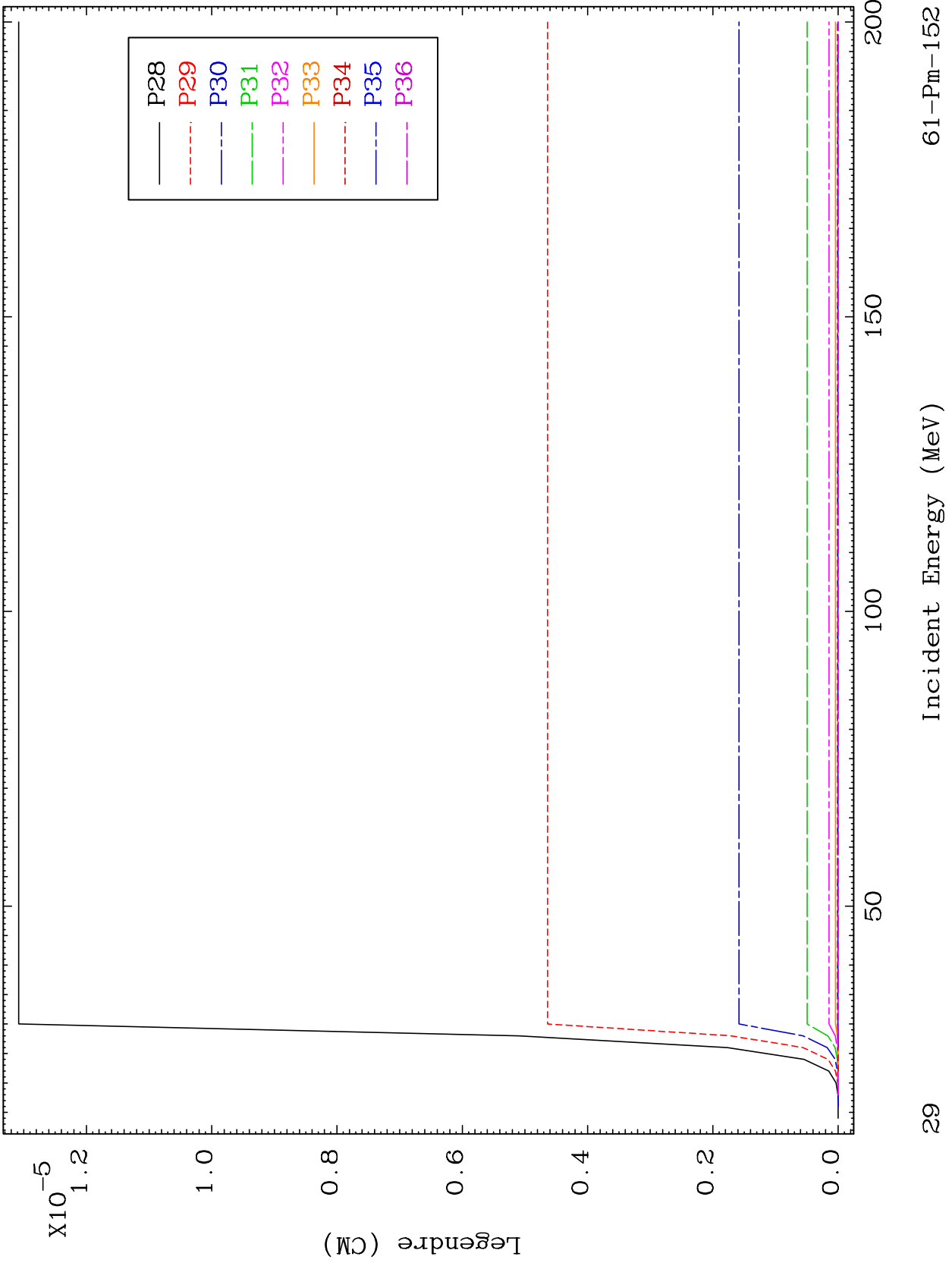
Incident Energy (MeV)

61-Pm-152

MAT 6164

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

61-Pm-152

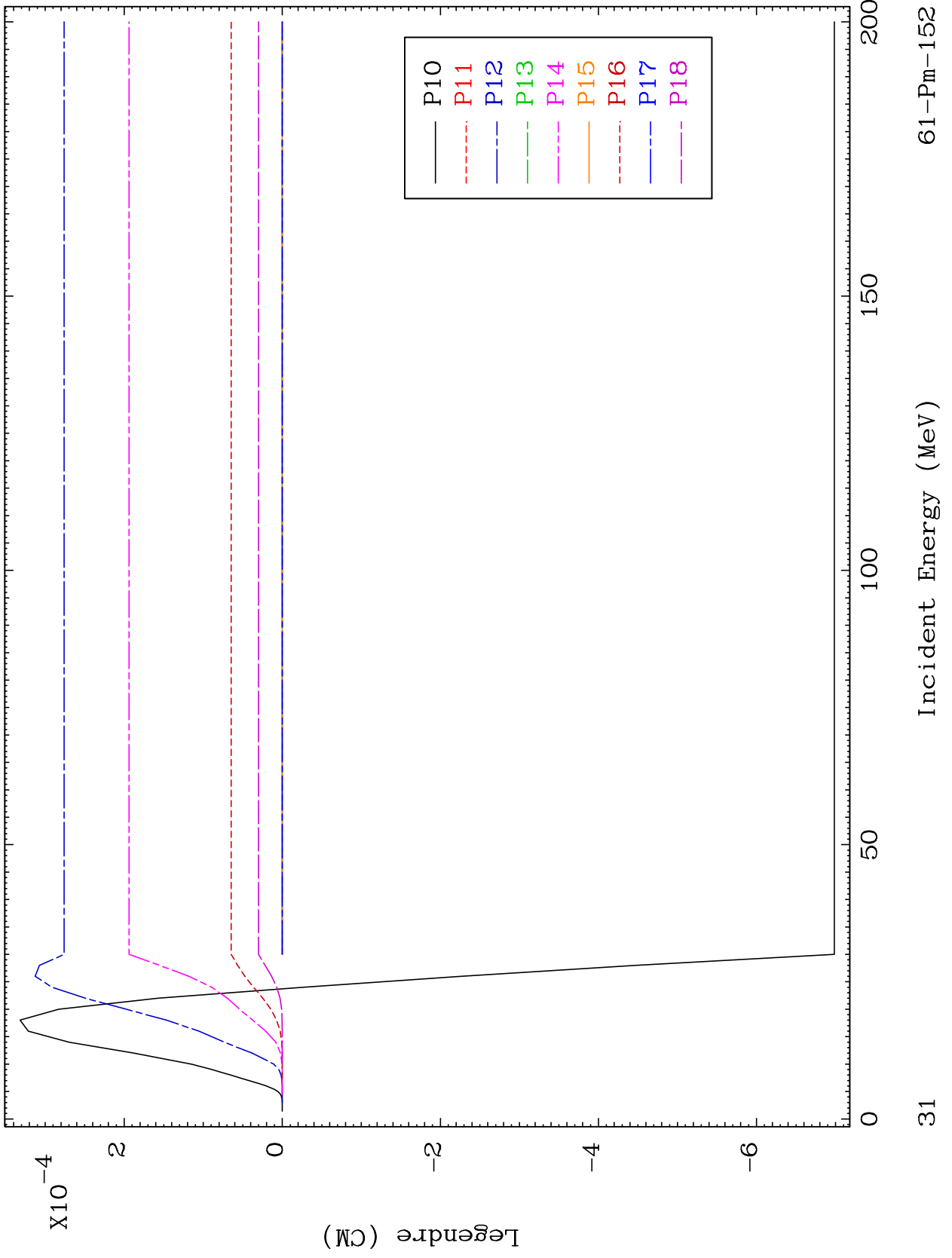


29

MAT 6164

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

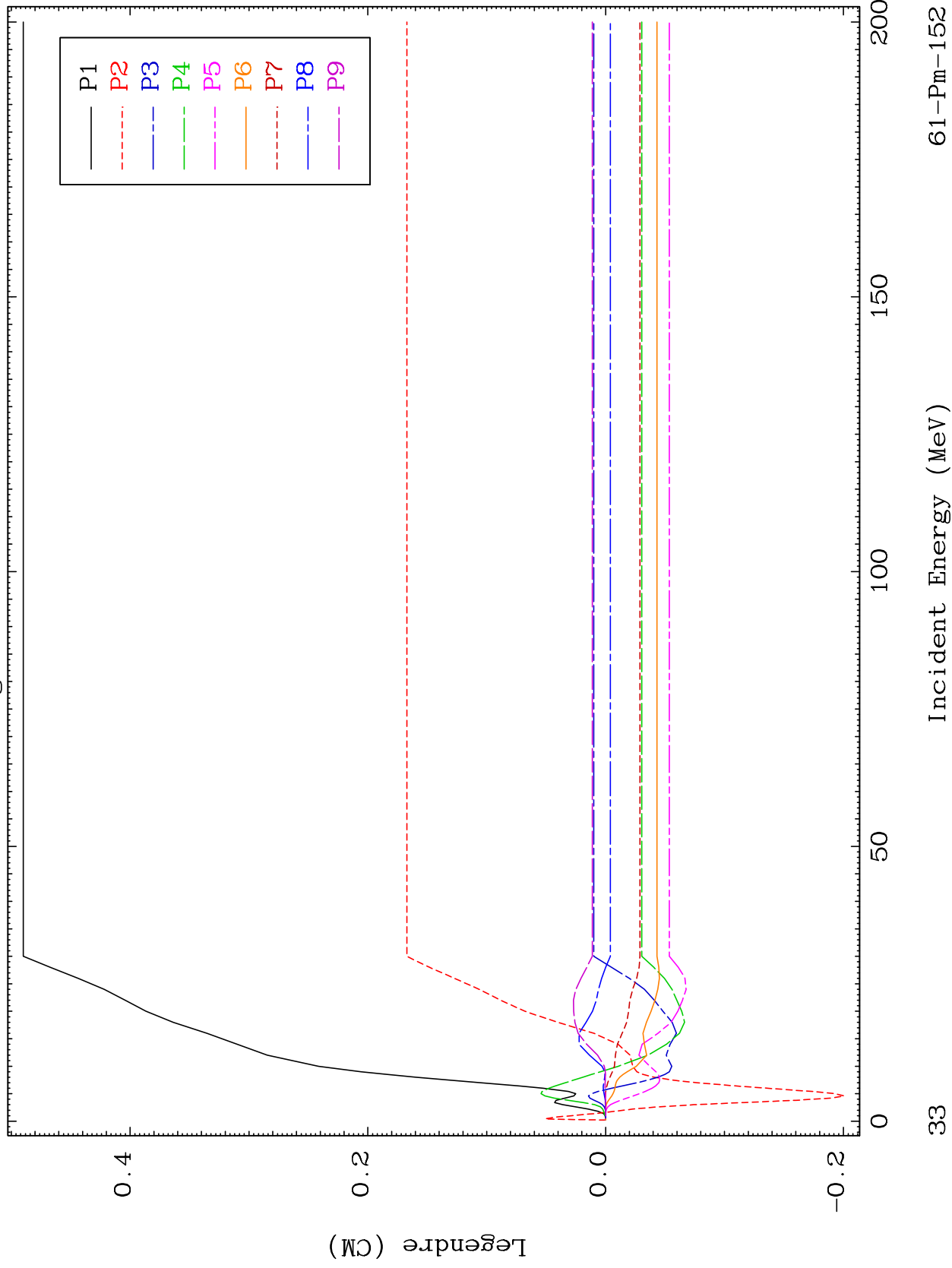
61-Pm-152



MAT 6164

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

61-Pm-152



61-Pm-152

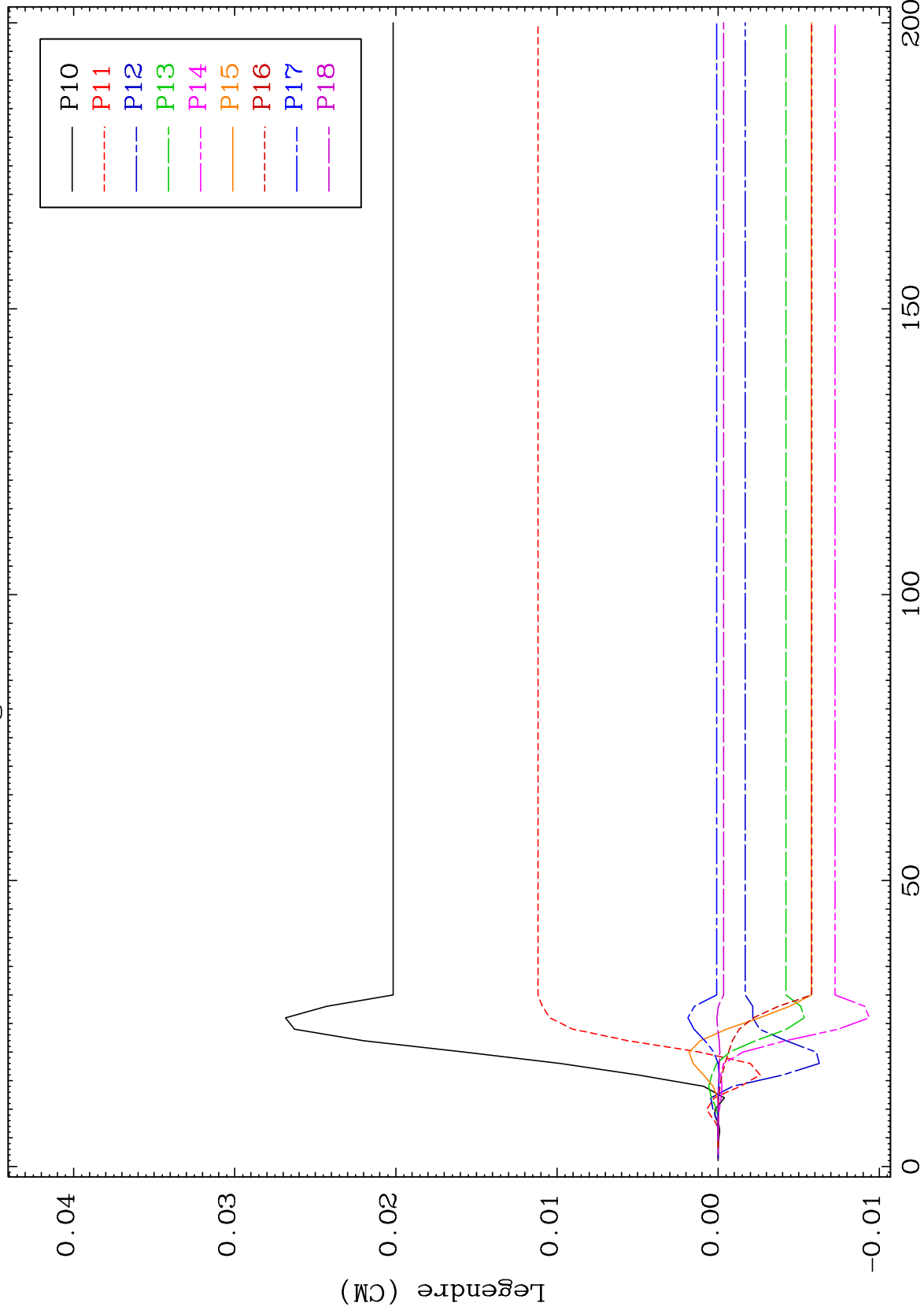
Incident Energy (MeV)

33

MAT 6164

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

61-Pm-152



34

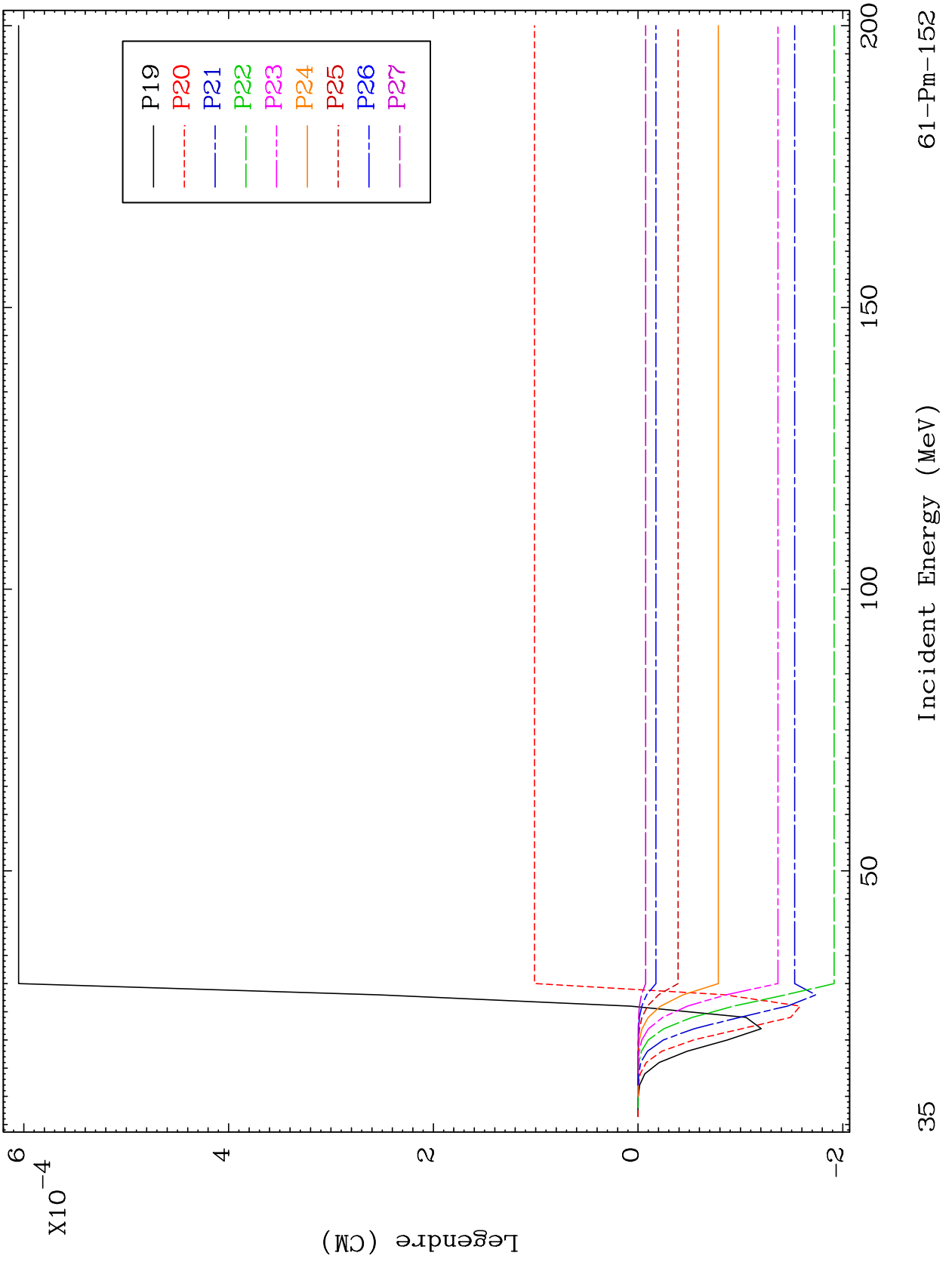
Incident Energy (MeV)

61-Pm-152

MAT 6164

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

61-Pm-152

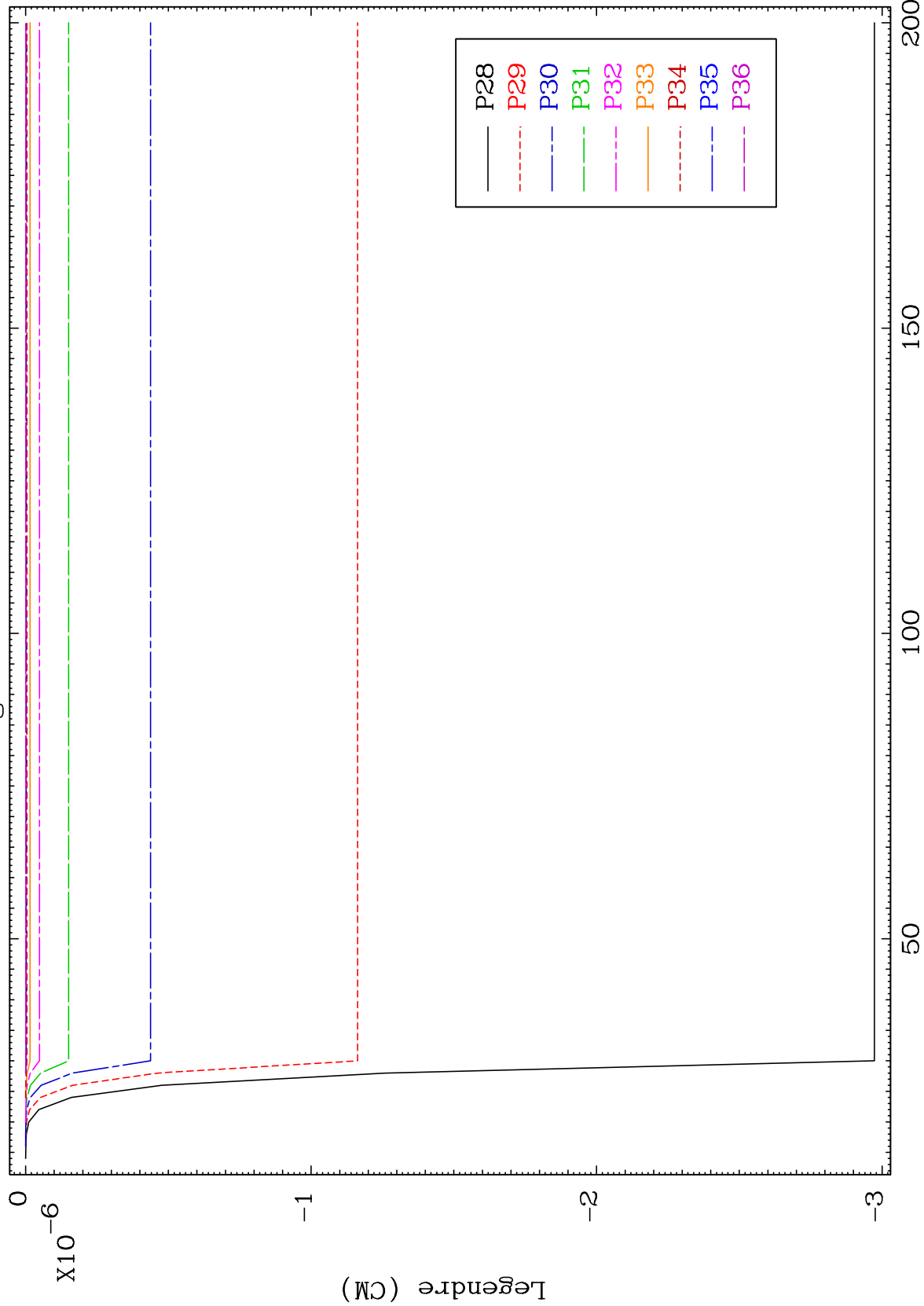


MAT 6164

MT= 55 (n,n') Level

61-Pm-152

Legendre Coefficients



61-Pm-152

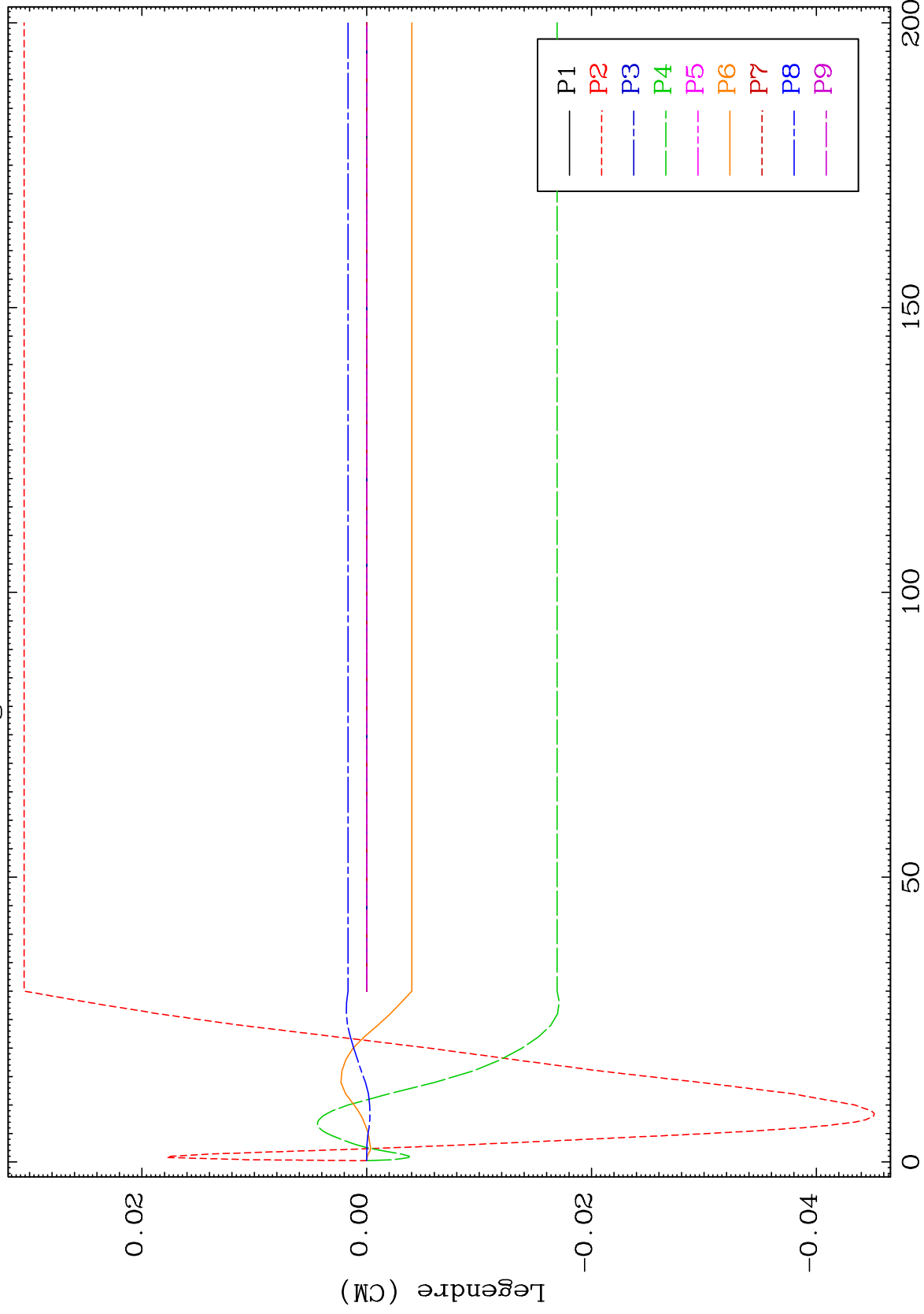
Incident Energy (MeV)

36

MAT 6164

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

61-Pm-152



37

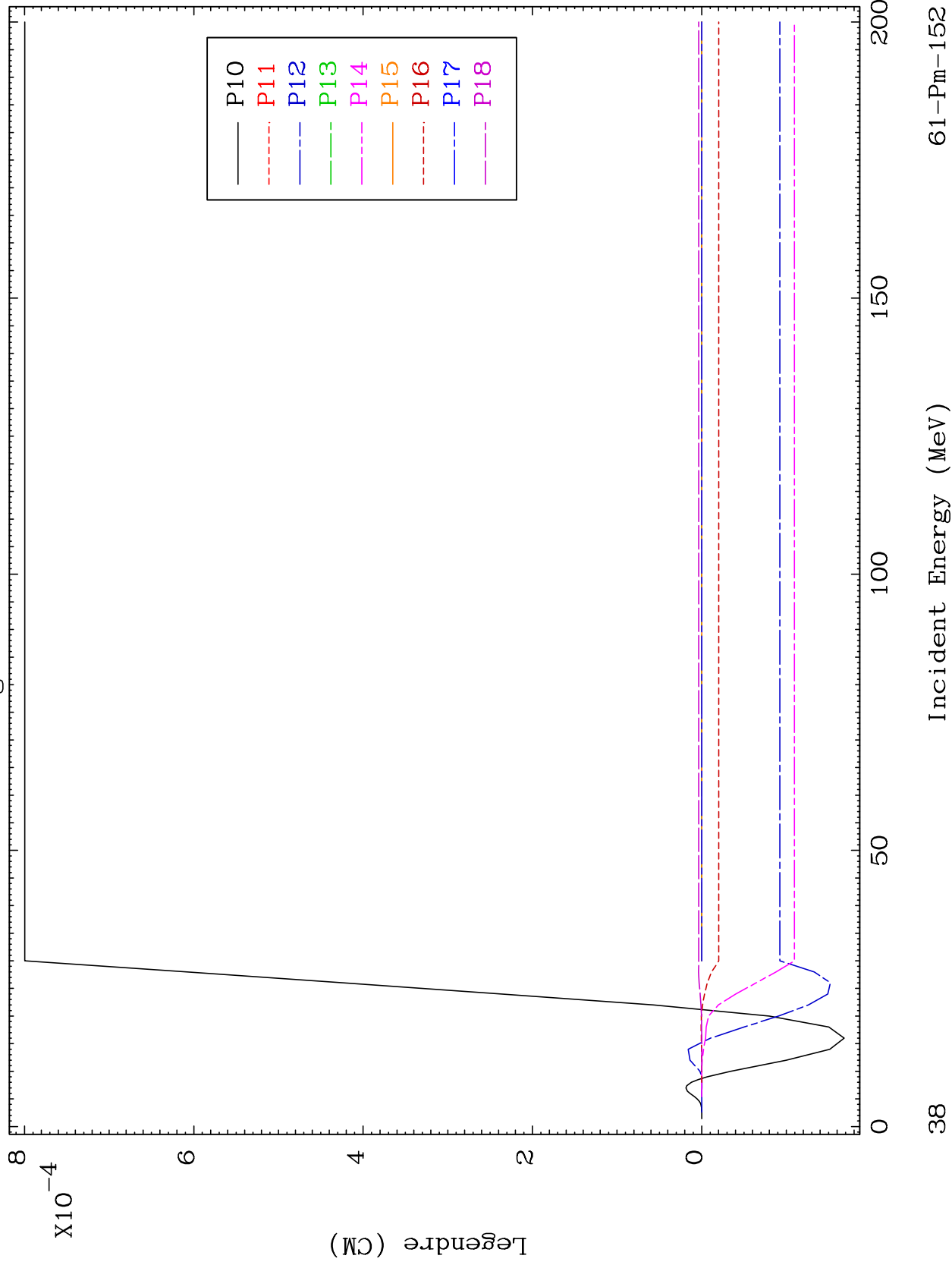
Incident Energy (MeV)

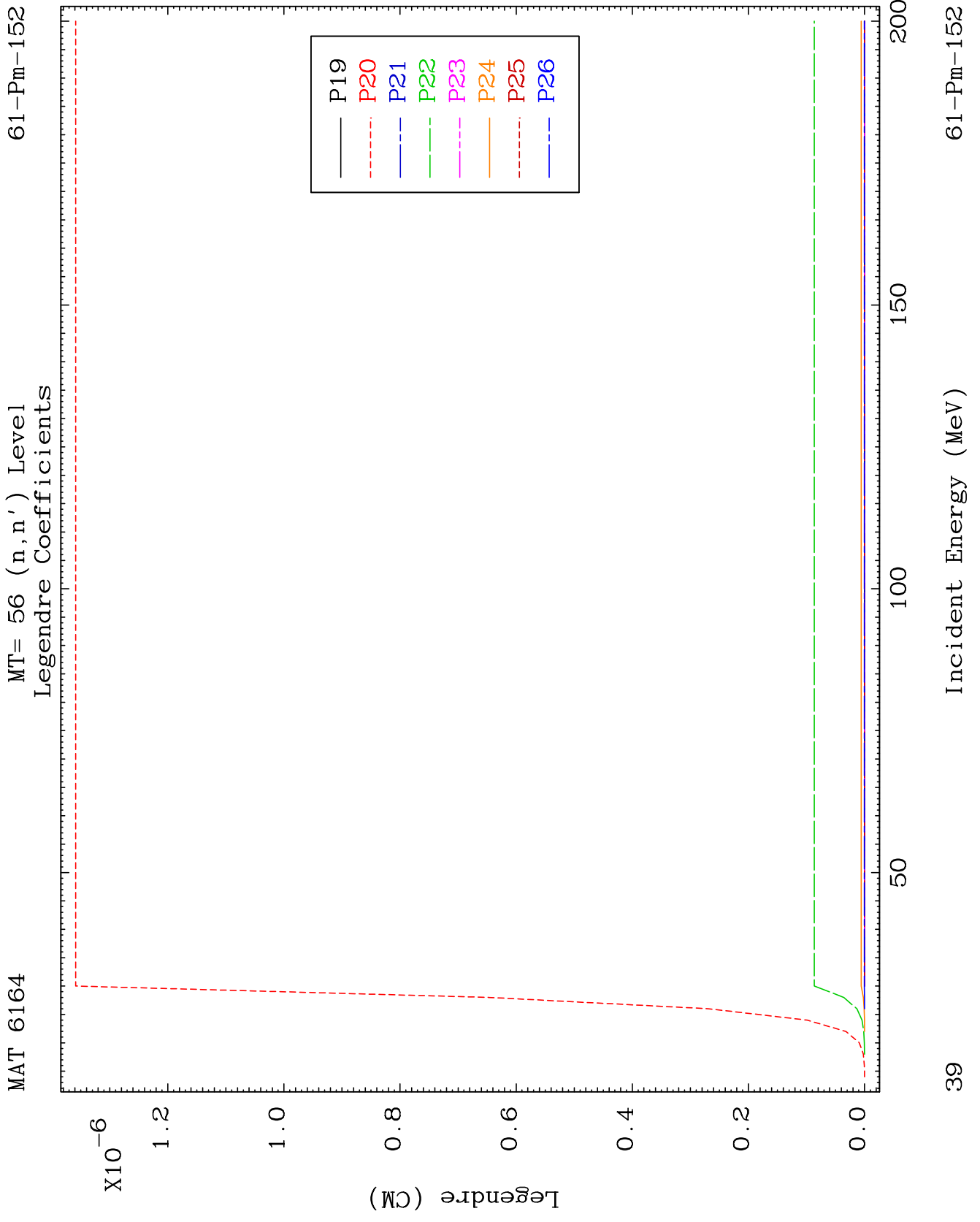
61-Pm-152

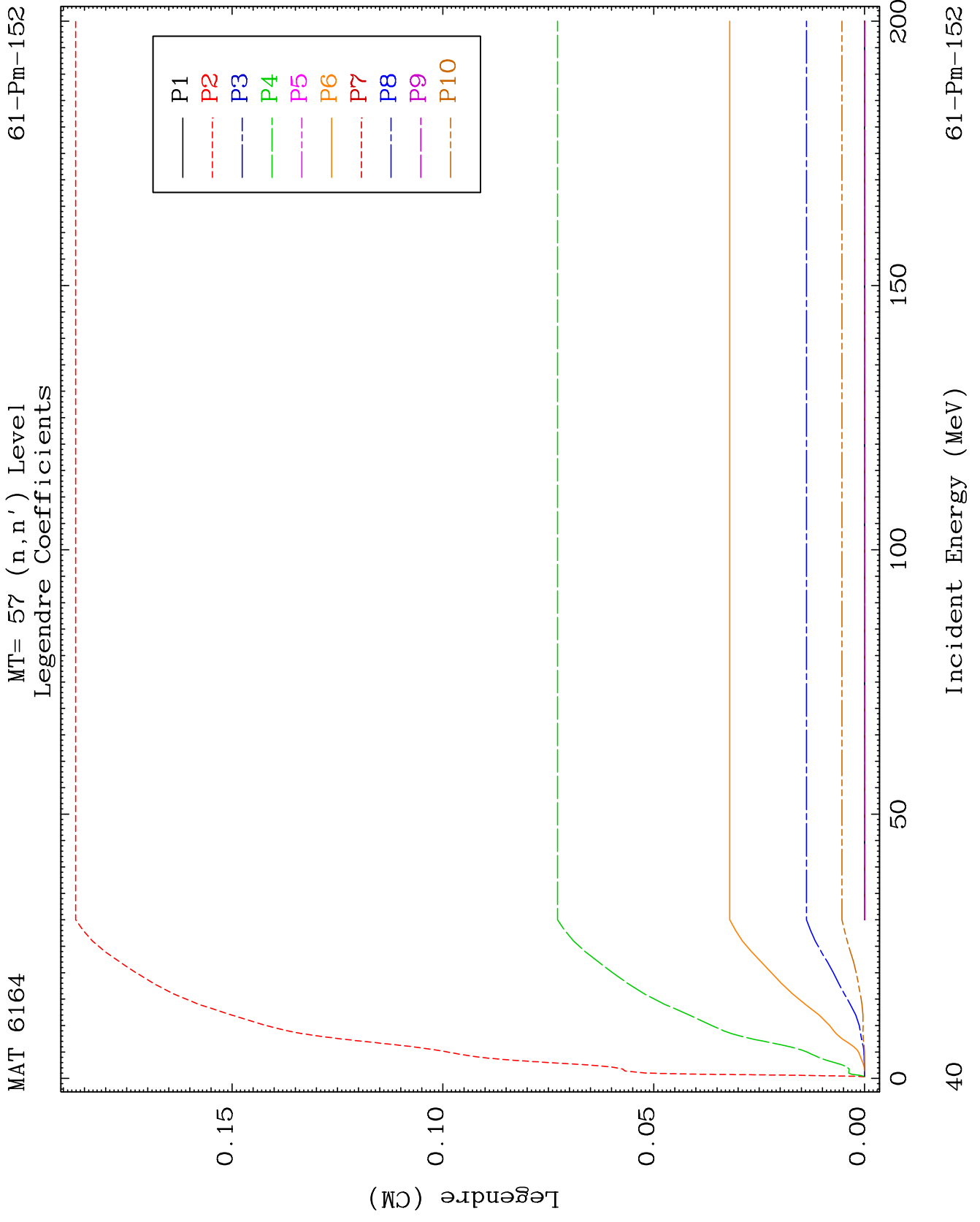
MAT 6164

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

61-Pm-152



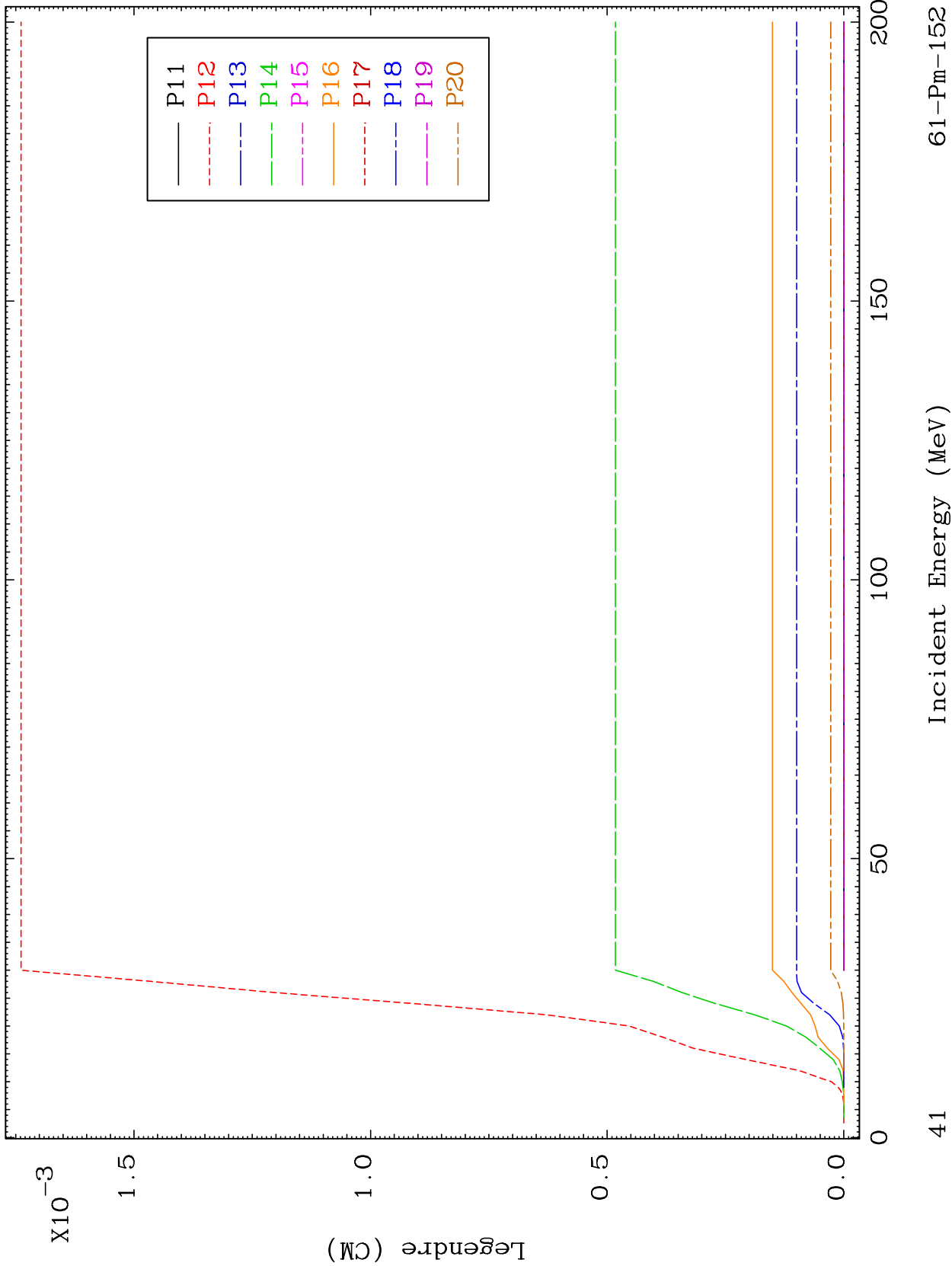




MAT 6164

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

61-Pm-152



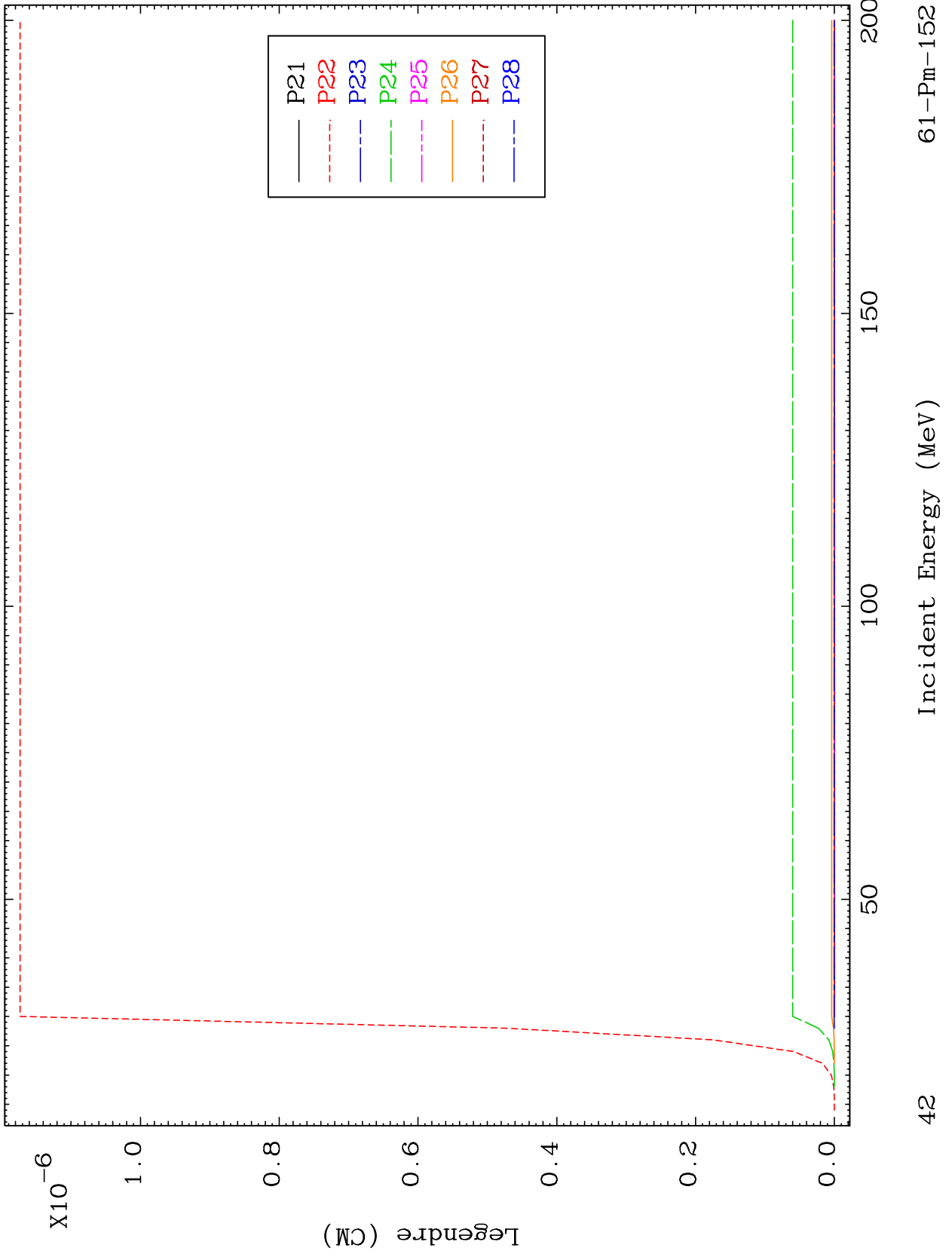
41

61-Pm-152

MAT 6164

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

61-Pm-152



42

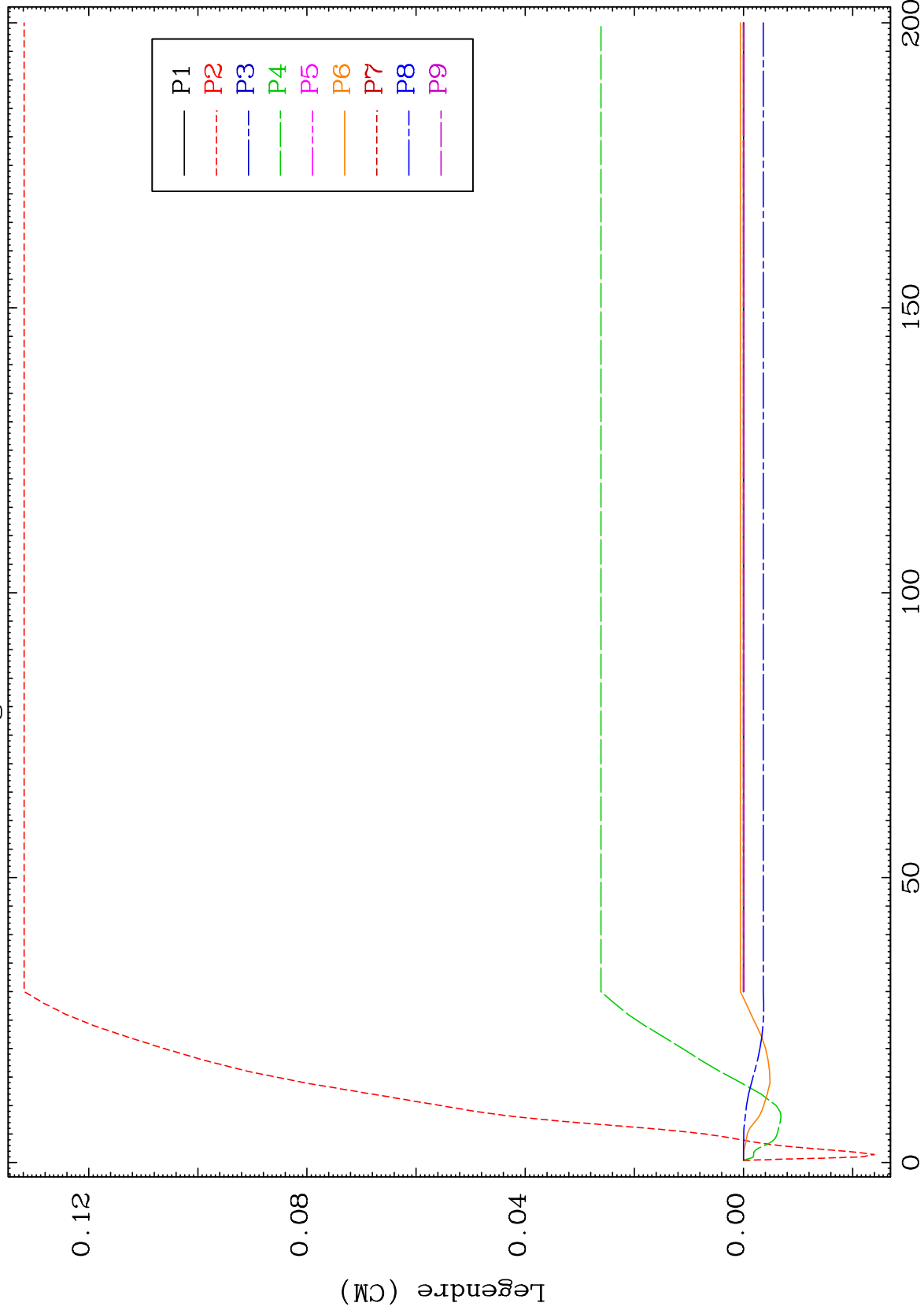
Incident Energy (MeV)

61-Pm-152

MAT 6164

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

61-Pm-152



43

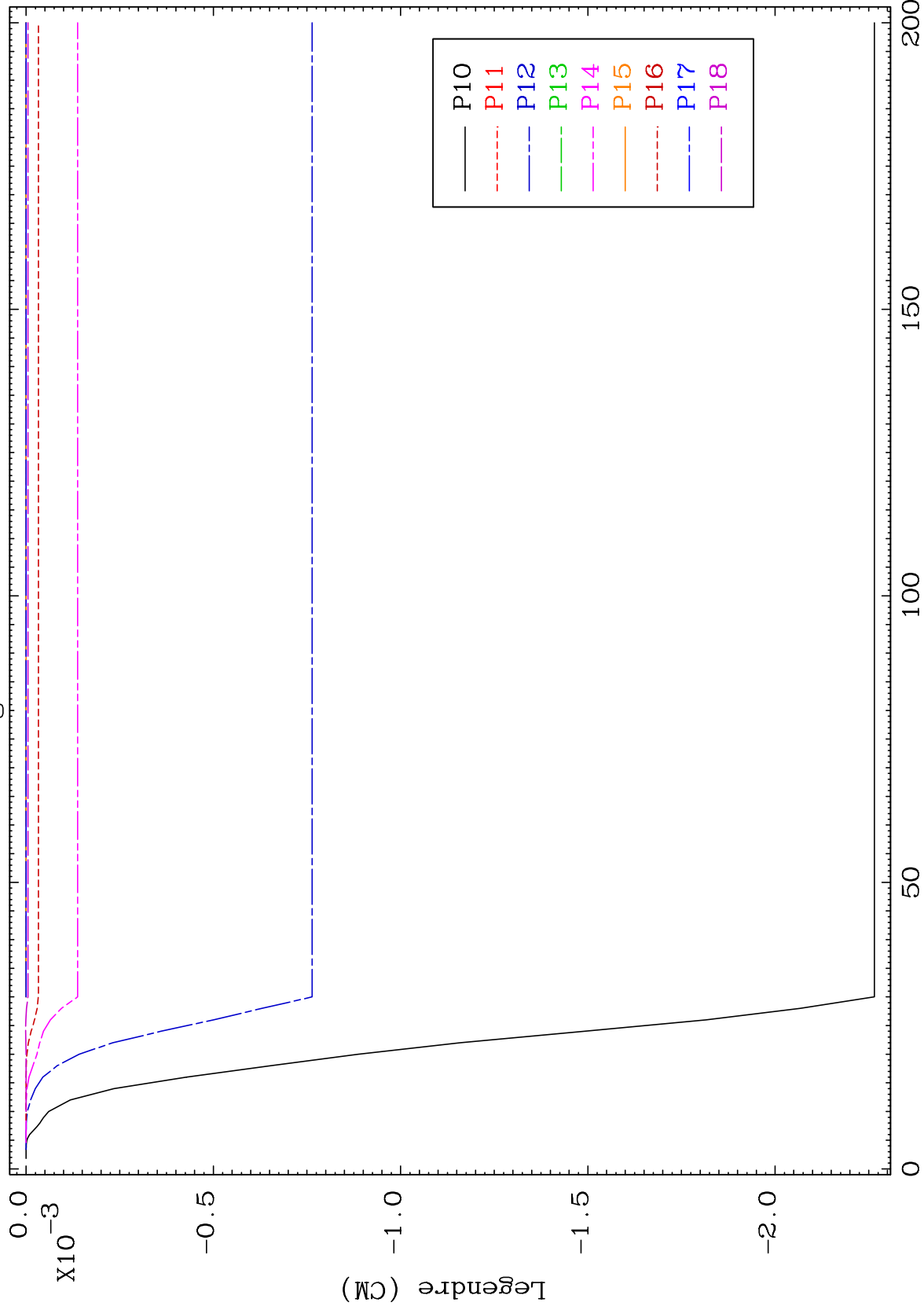
Incident Energy (MeV)

61-Pm-152

MAT 6164

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

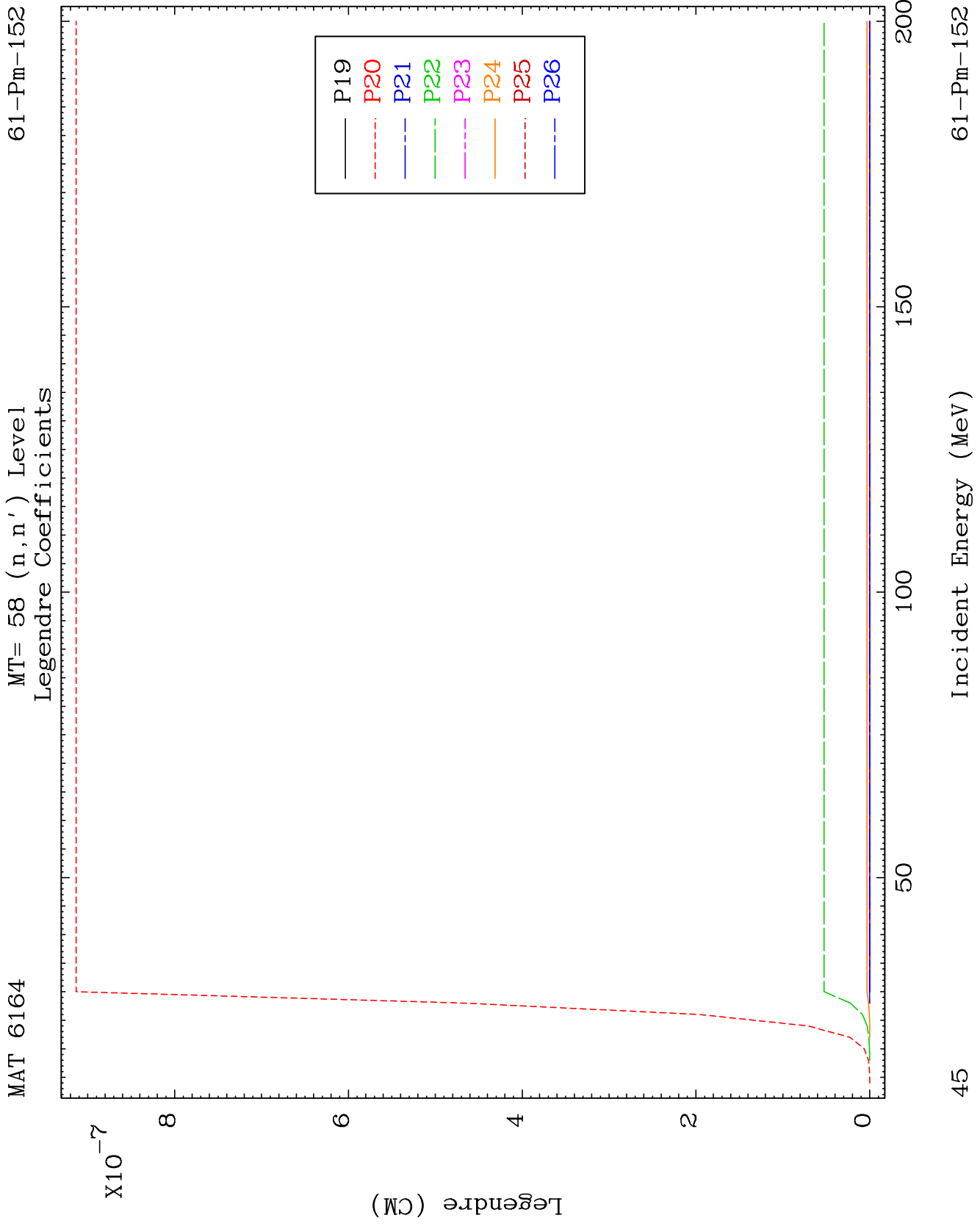
61-Pm-152



44

Incident Energy (MeV)

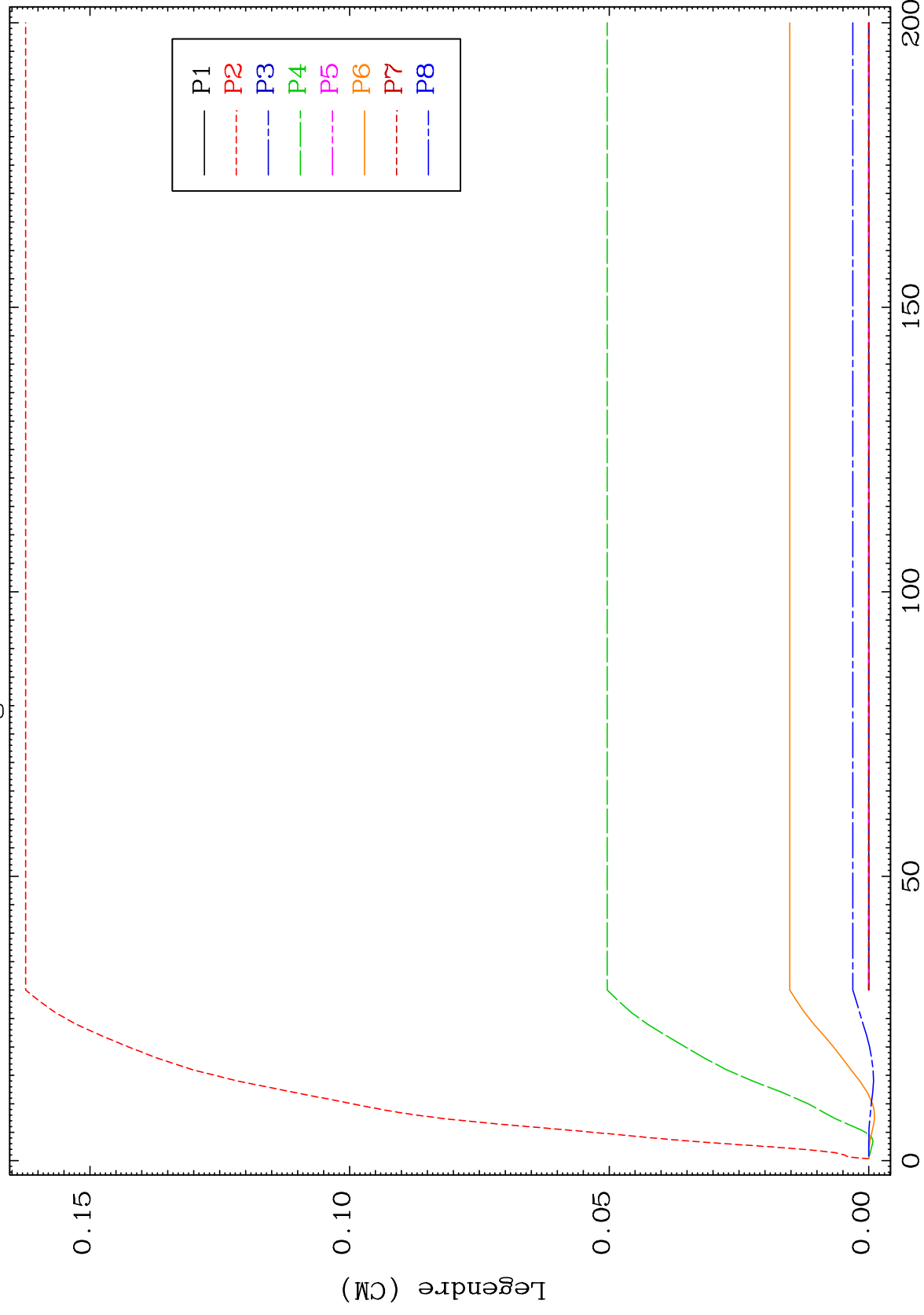
61-Pm-152



MAT 6164

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

61-Pm-152



46

Incident Energy (MeV)

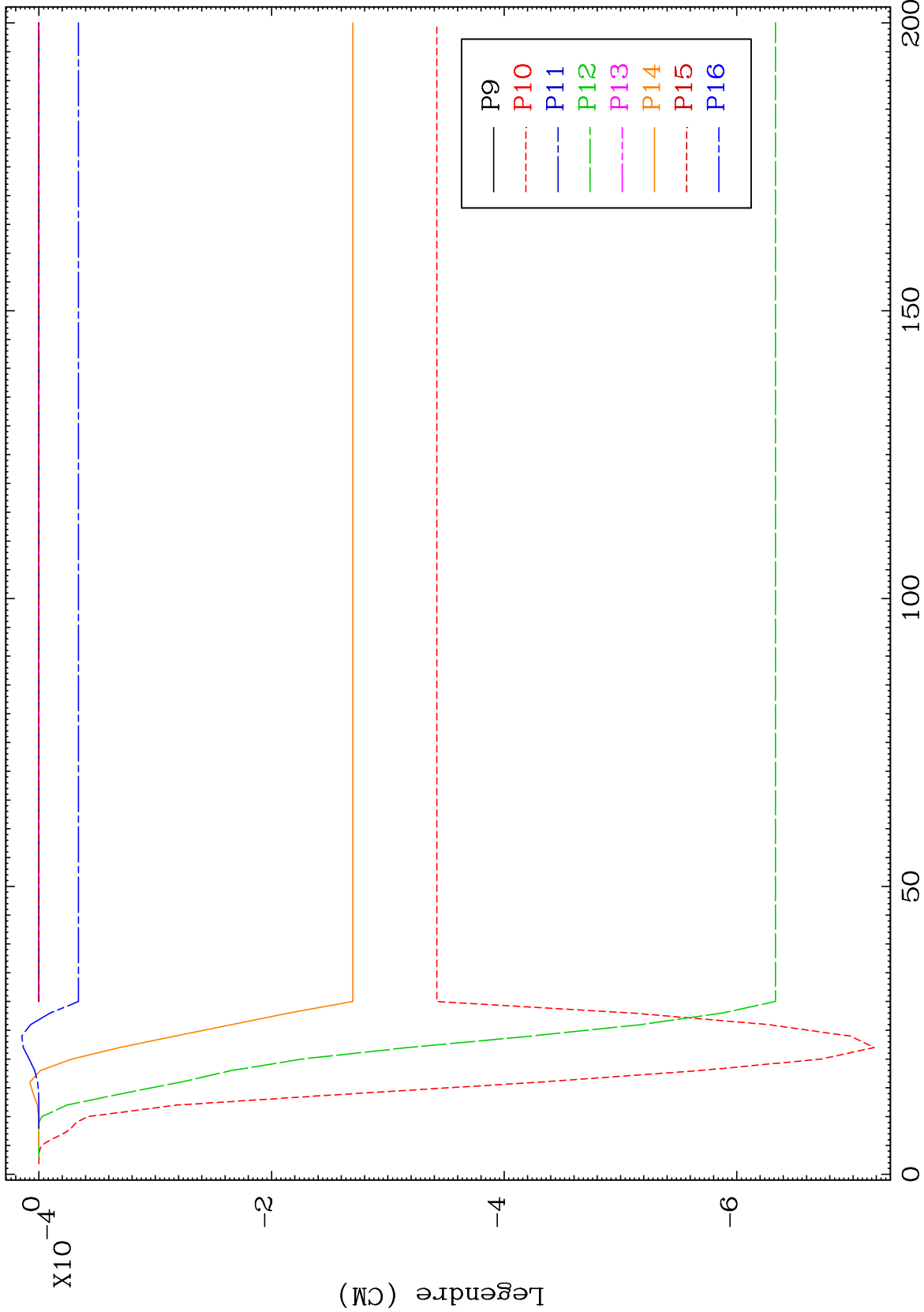
61-Pm-152

MAT 6164

MT= 59 (n,n') Level

61-Pm-152

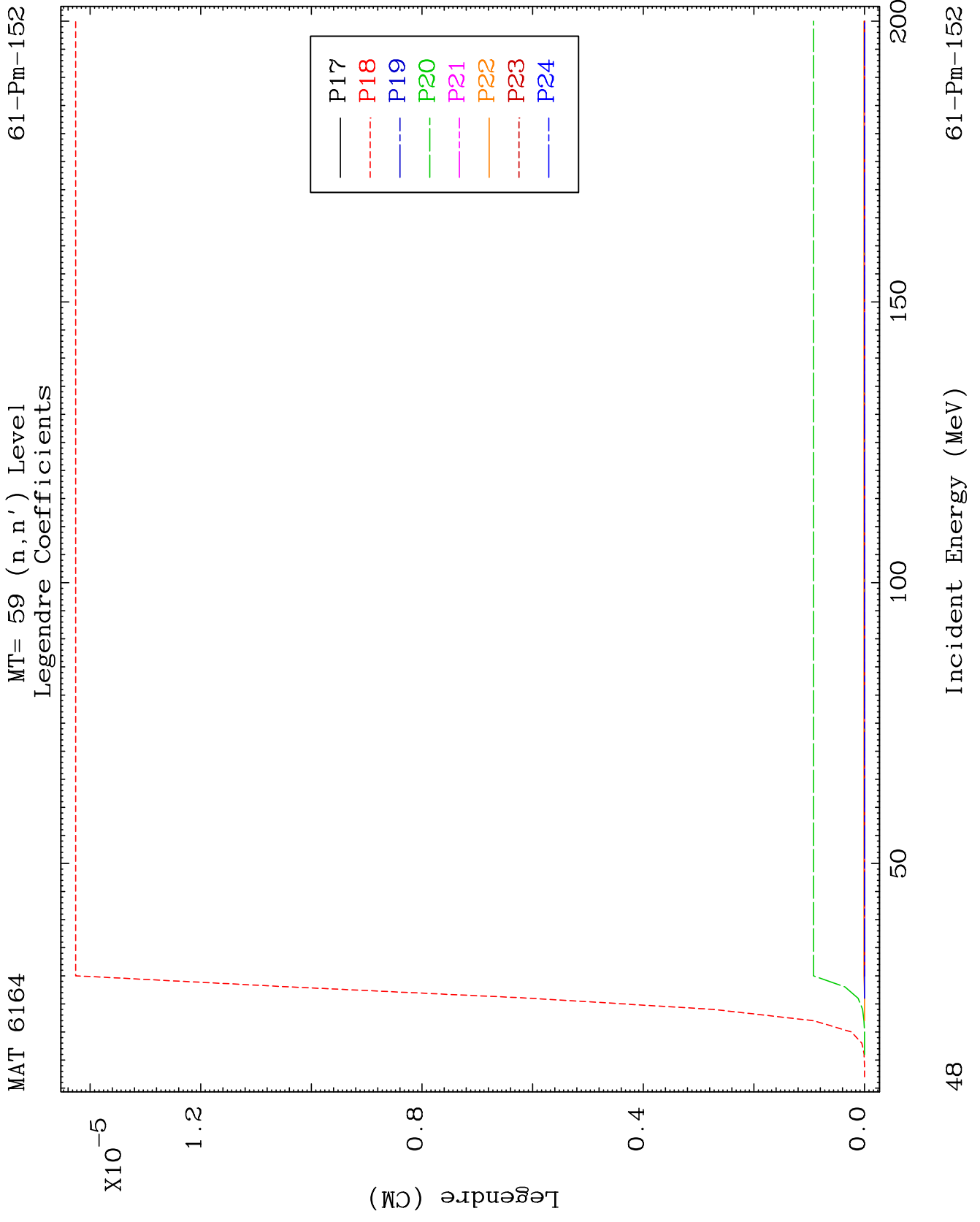
Legendre Coefficients

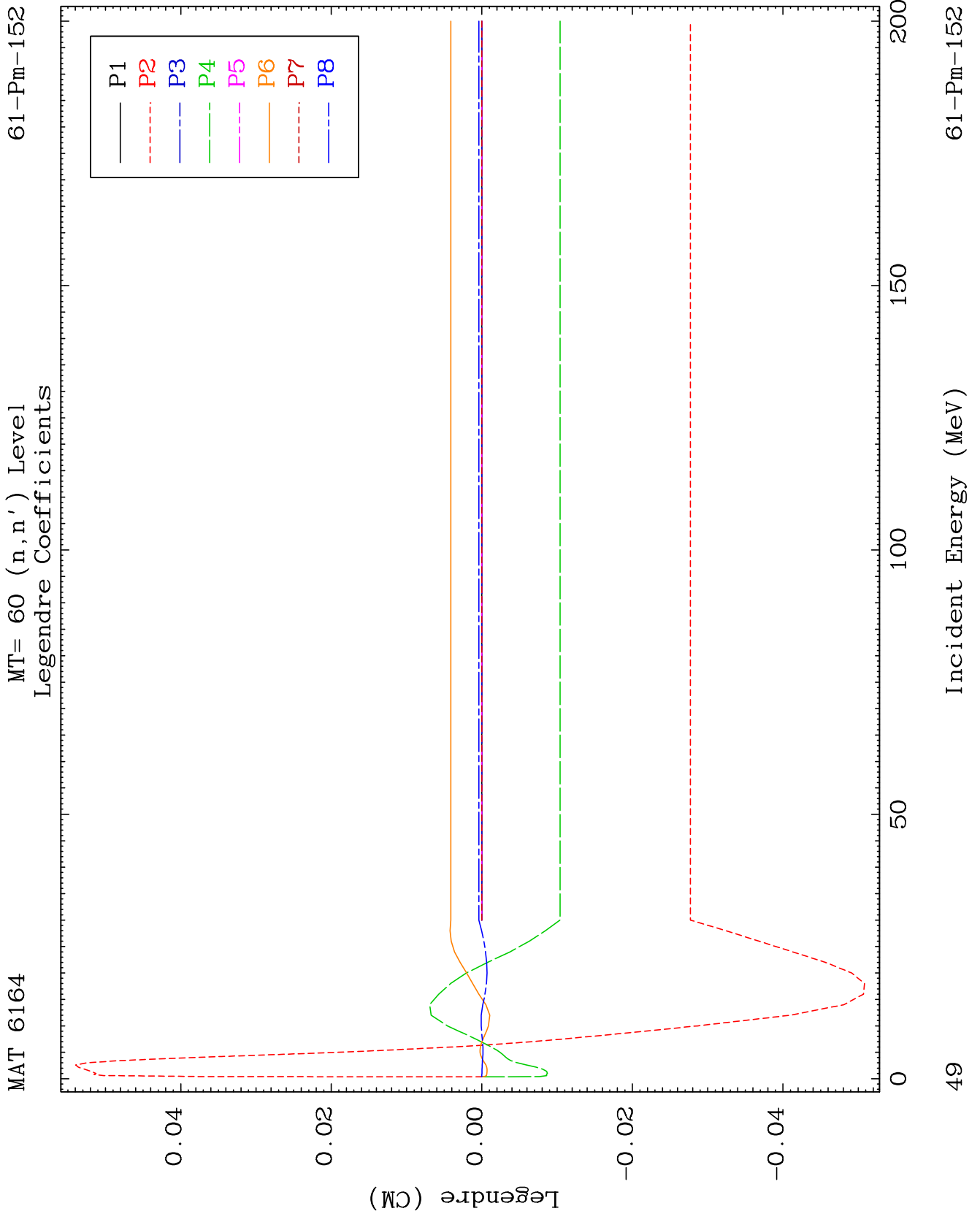


47

Incident Energy (MeV)

61-Pm-152



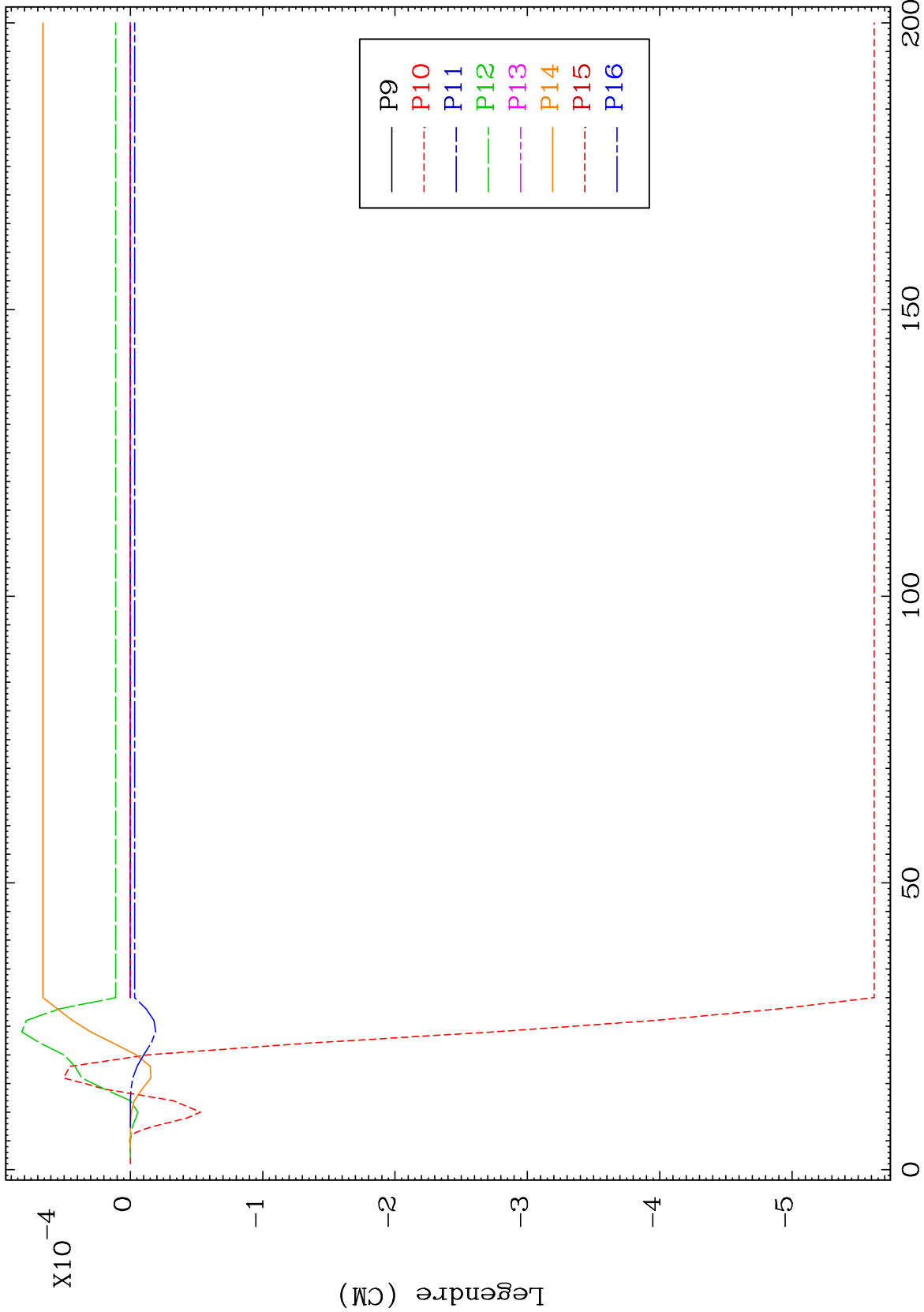


MAT 6164

MT= 60 (n,n') Level

61-Pm-152

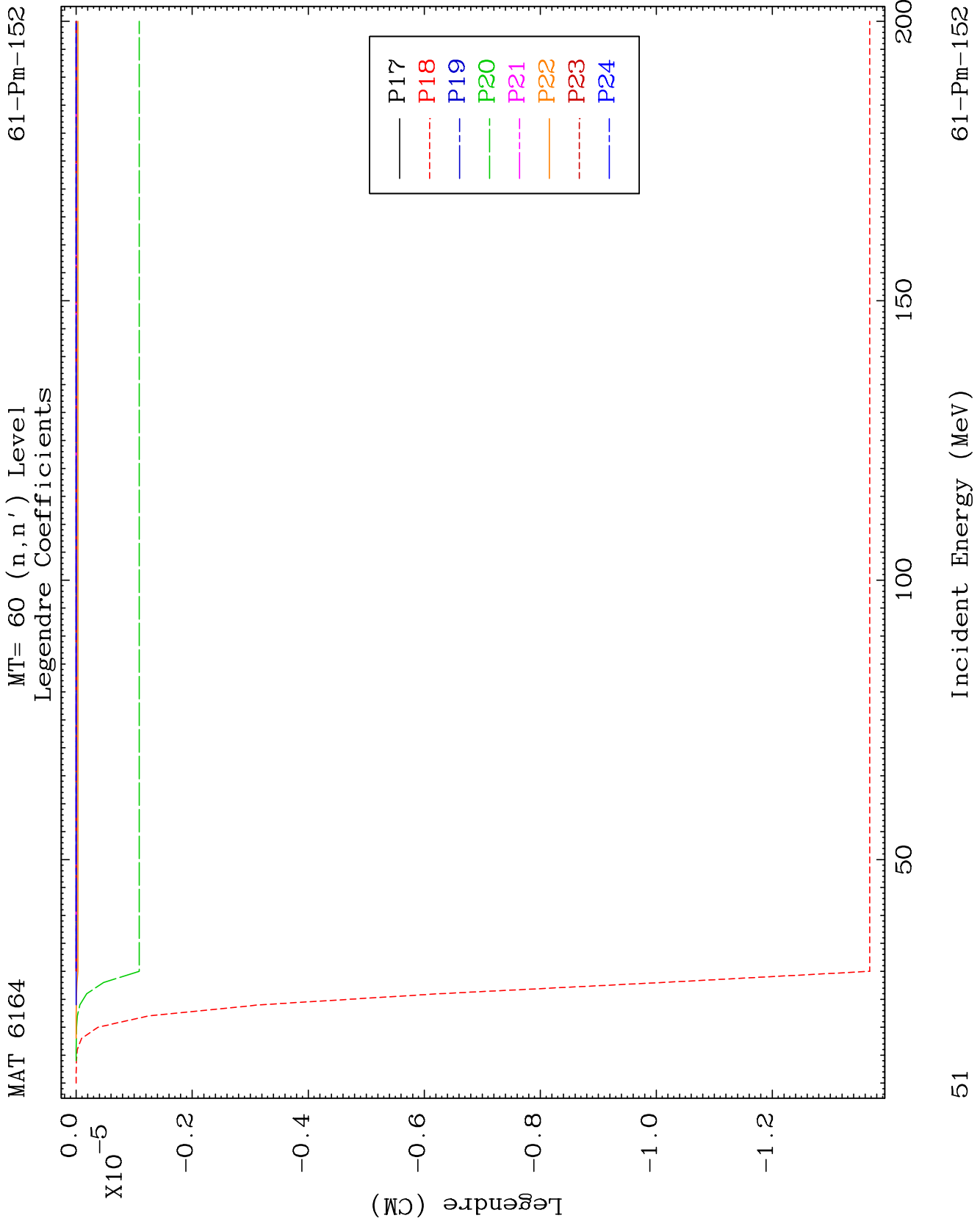
Legendre Coefficients

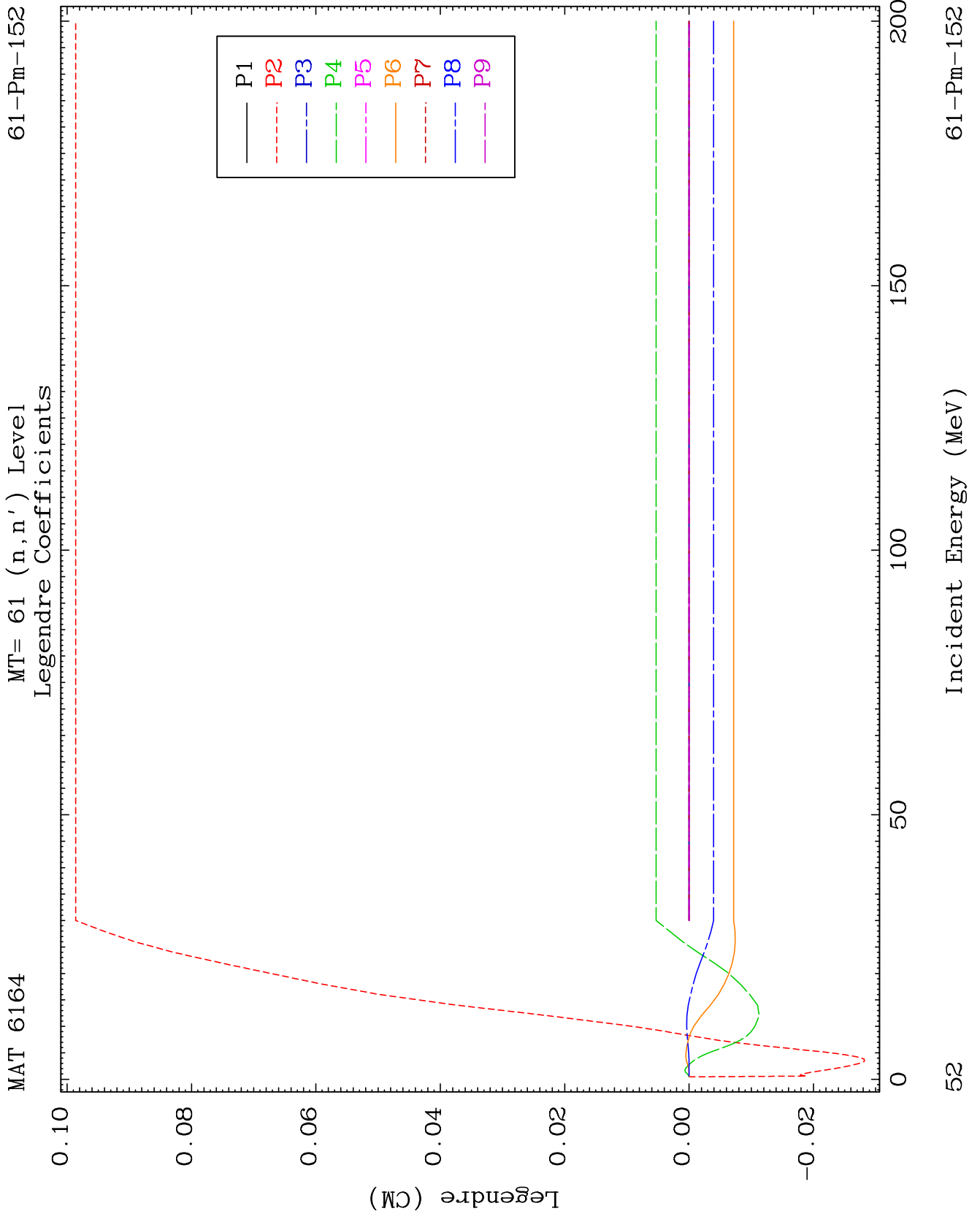


61-Pm-152

Incident Energy (MeV)

50

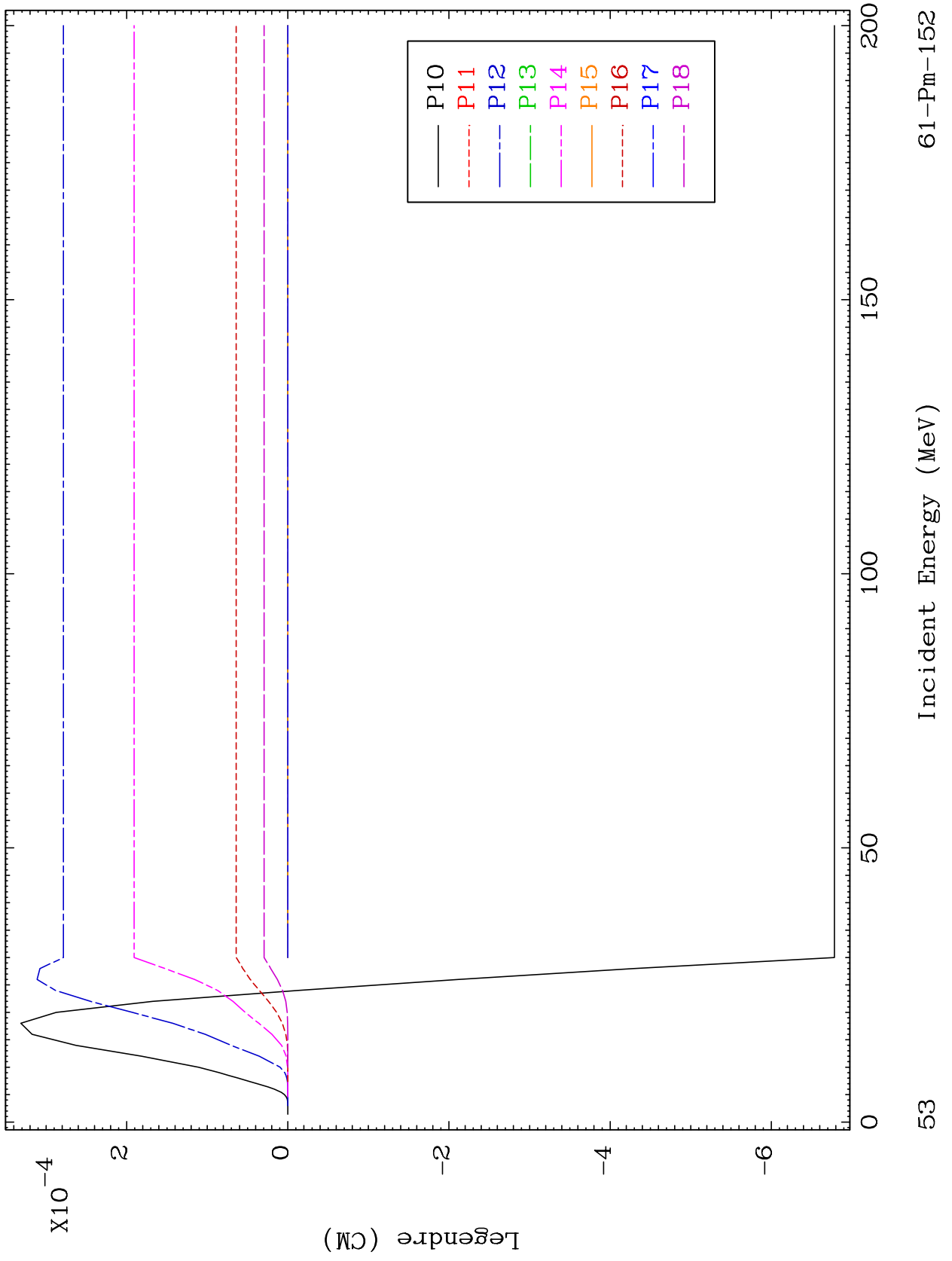




MAT 6164

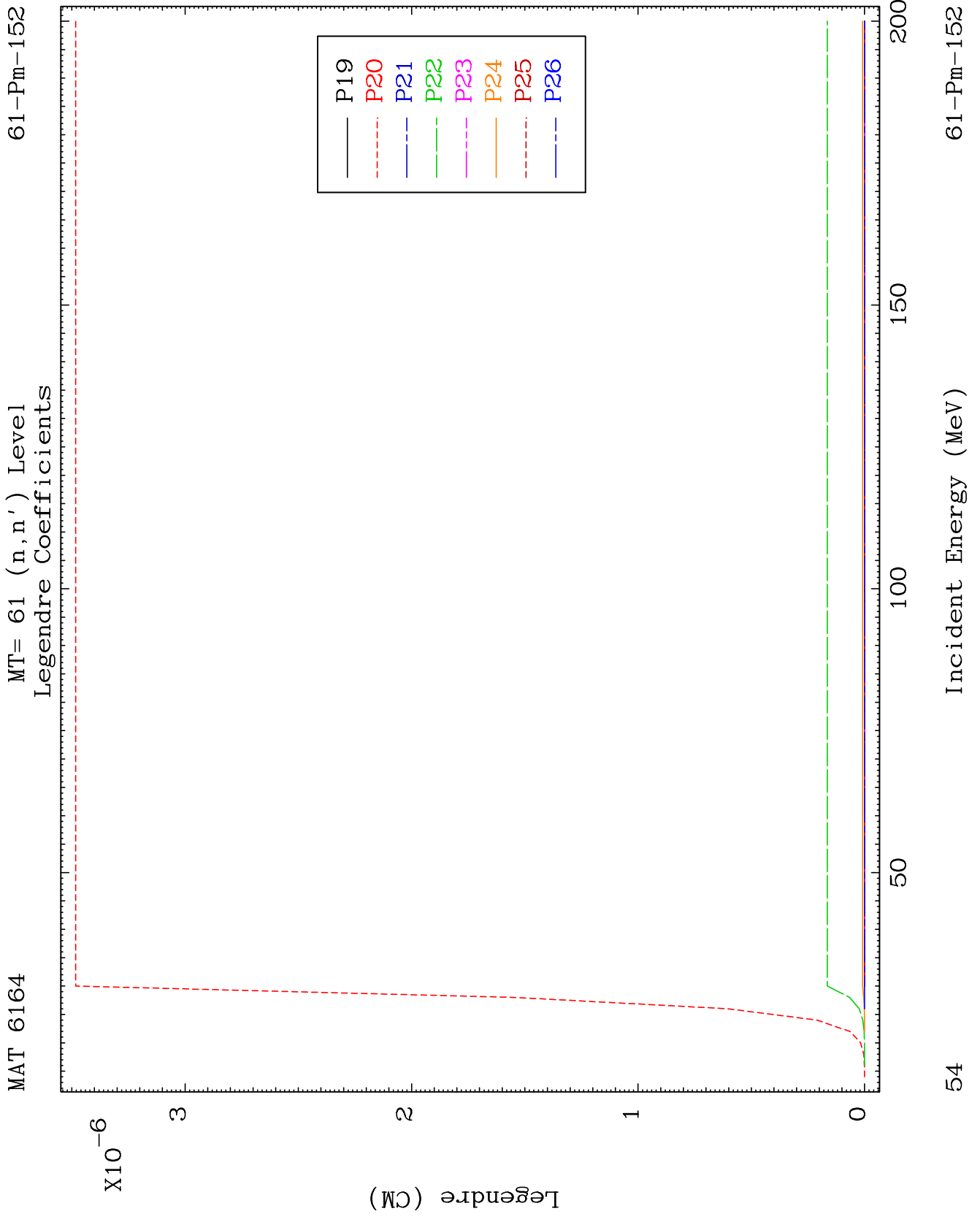
MT= 61 (n,n') Level
Legendre Coefficients

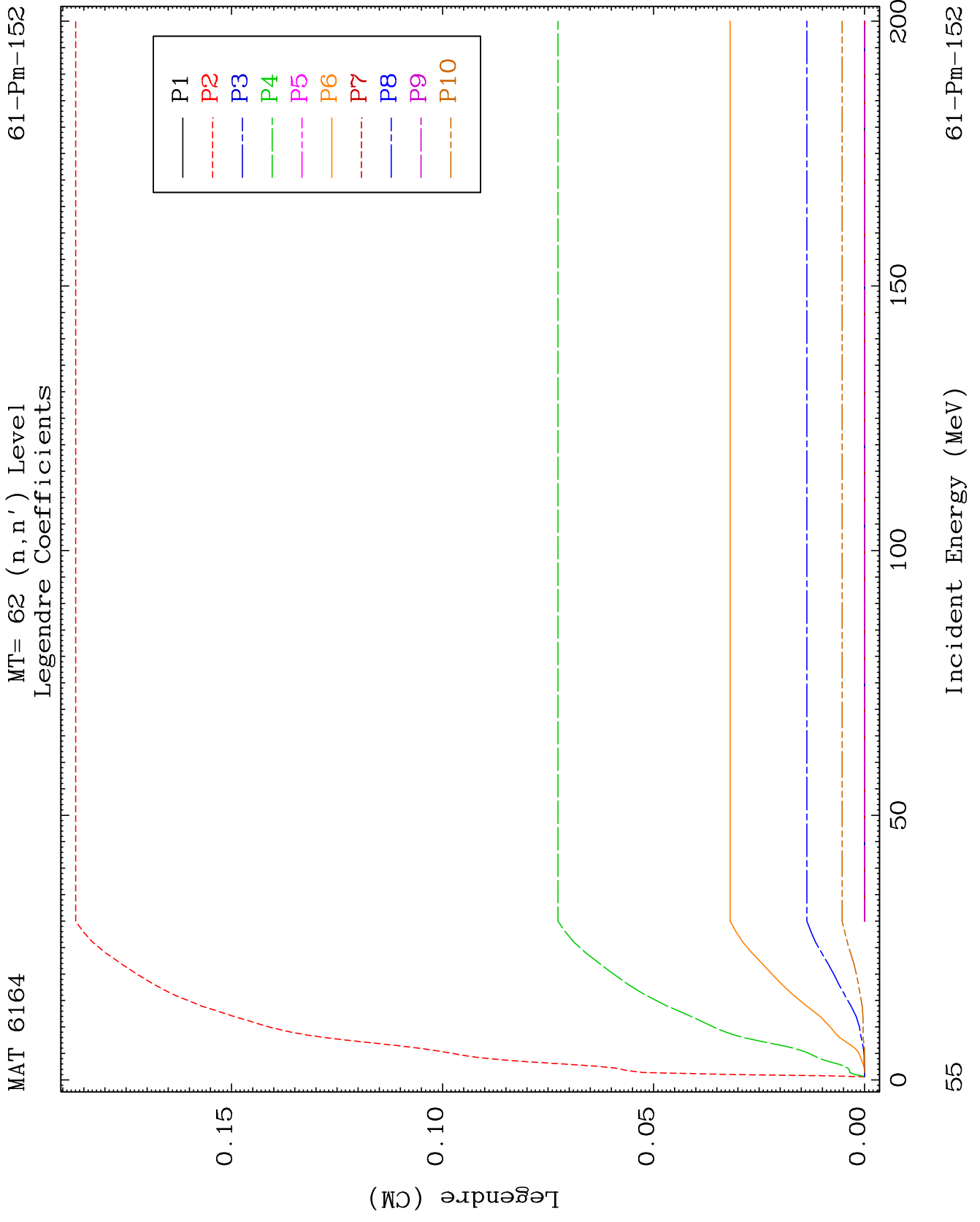
61-Pm-152



53

61-Pm-152

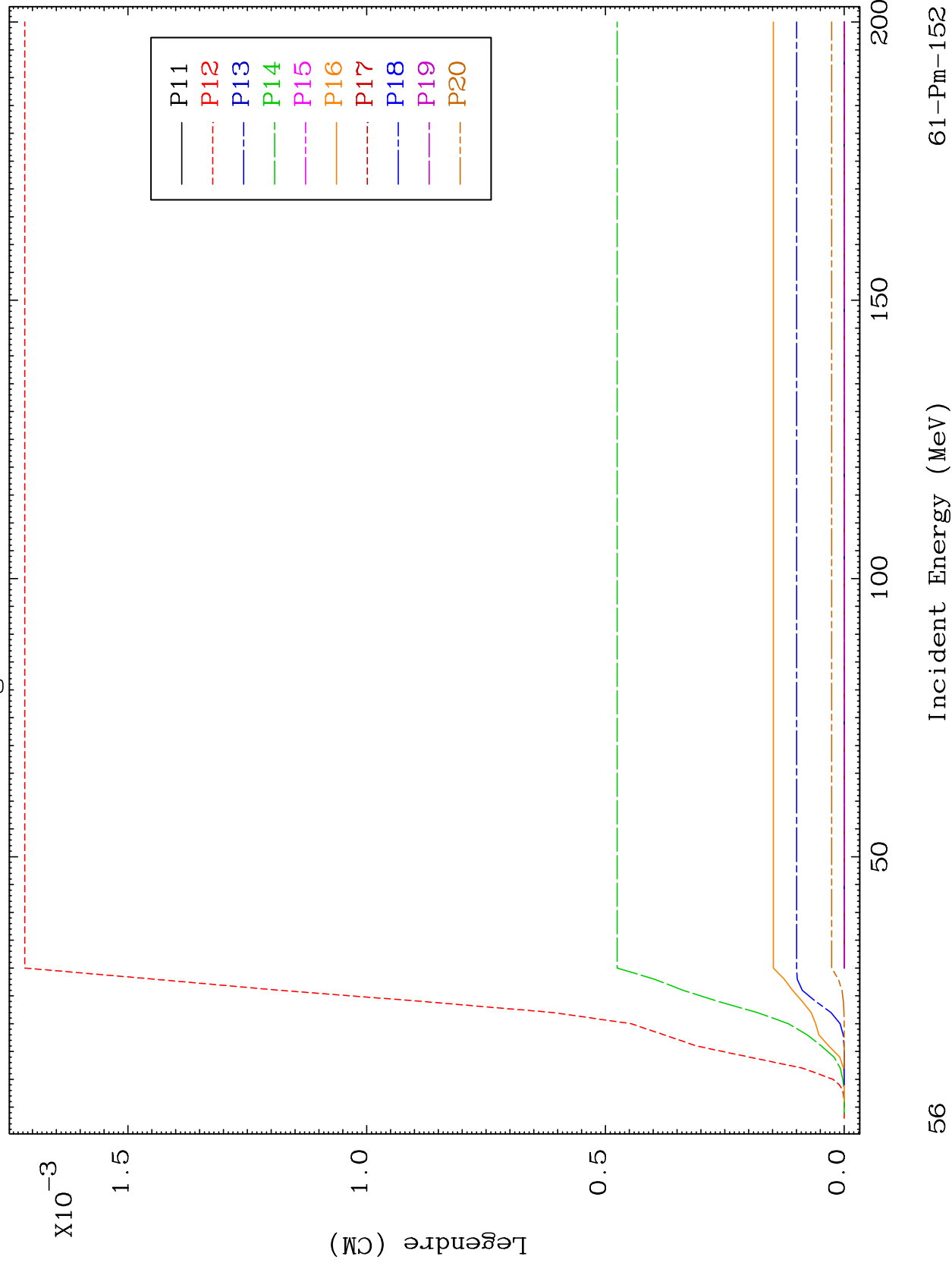




MAT 6164

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

61-Pm-152



56

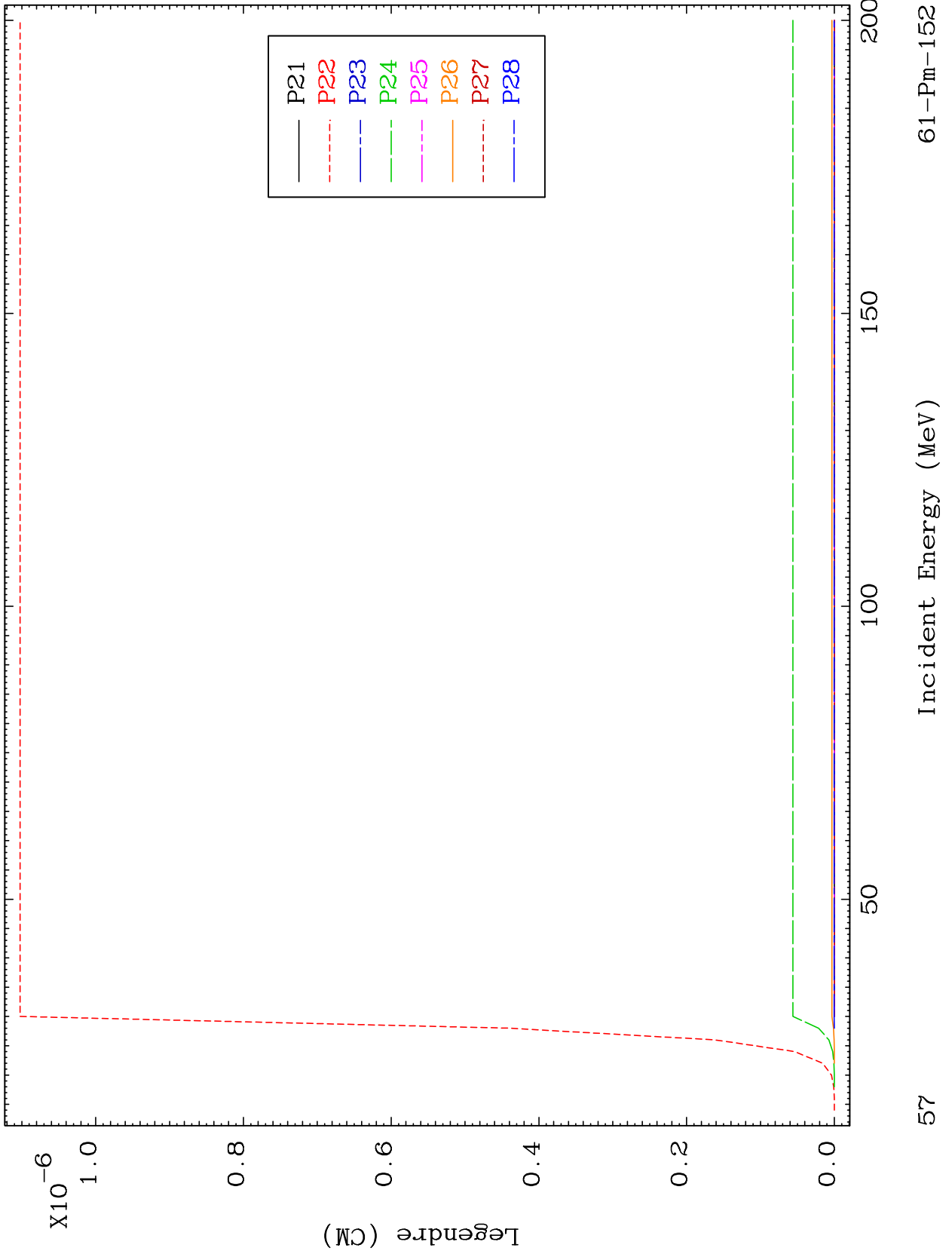
Incident Energy (MeV)

61-Pm-152

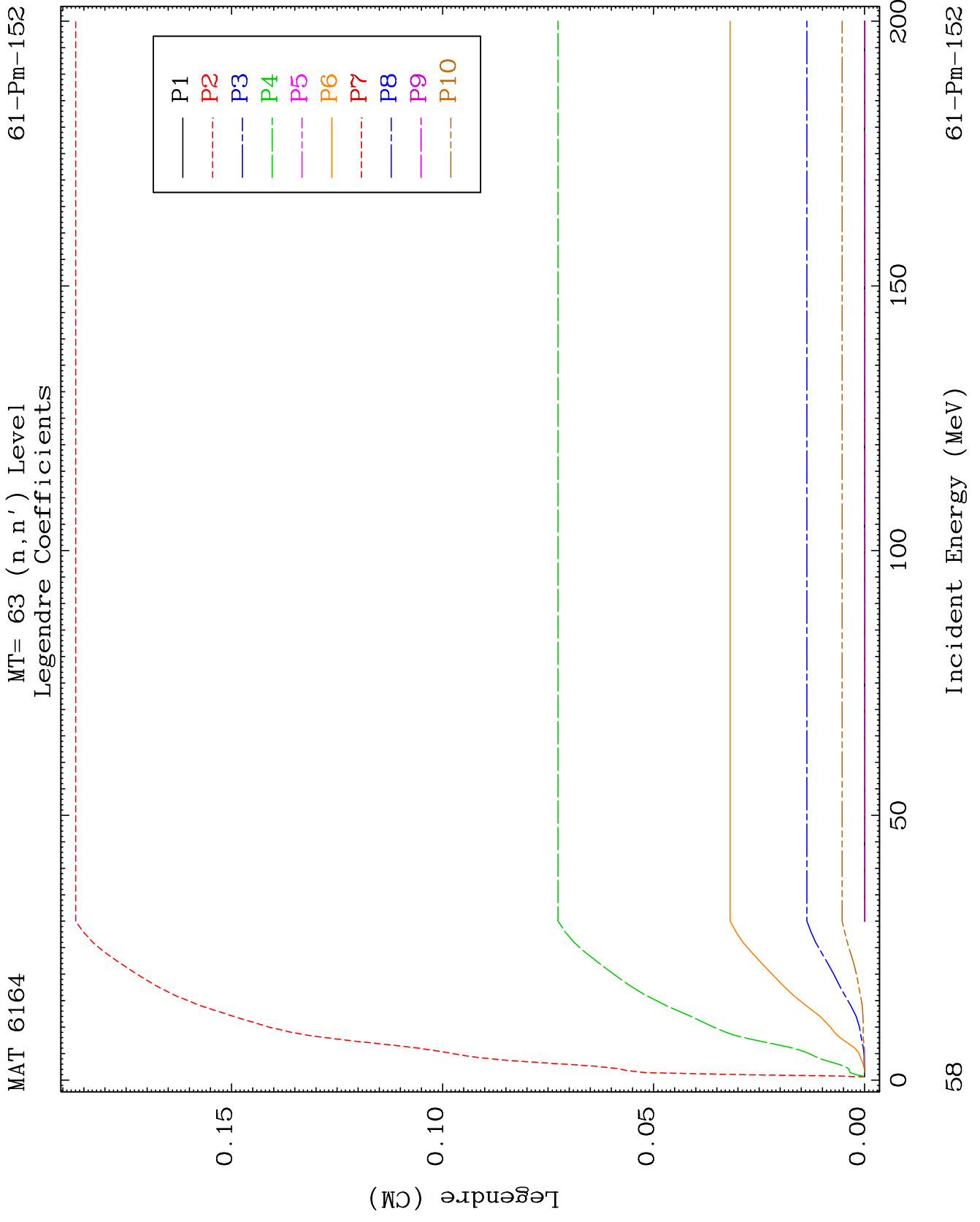
MAT 6164

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

61-Pm-152



57



61-Pm-152

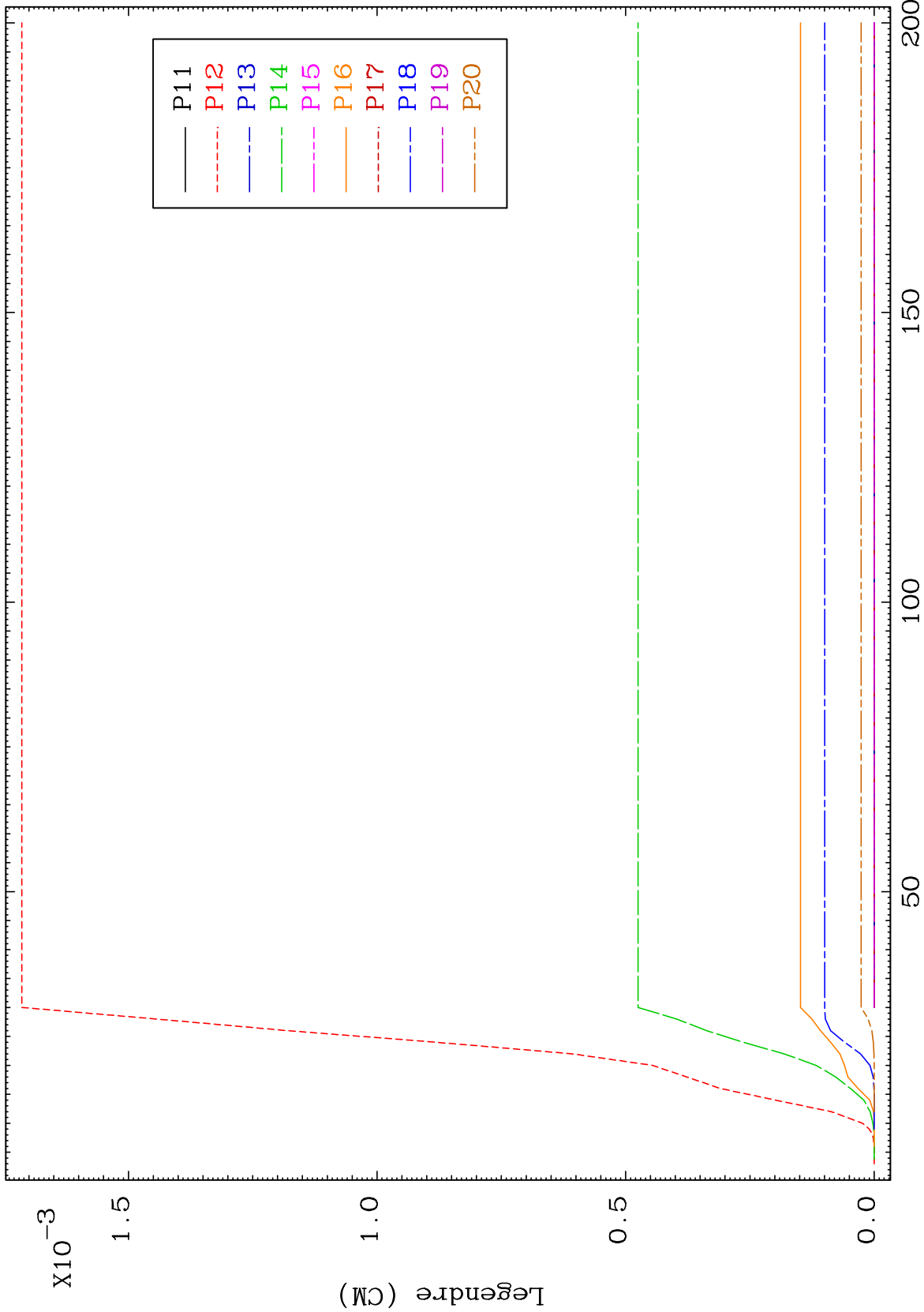
Incident Energy (MeV)

58

MAT 6164

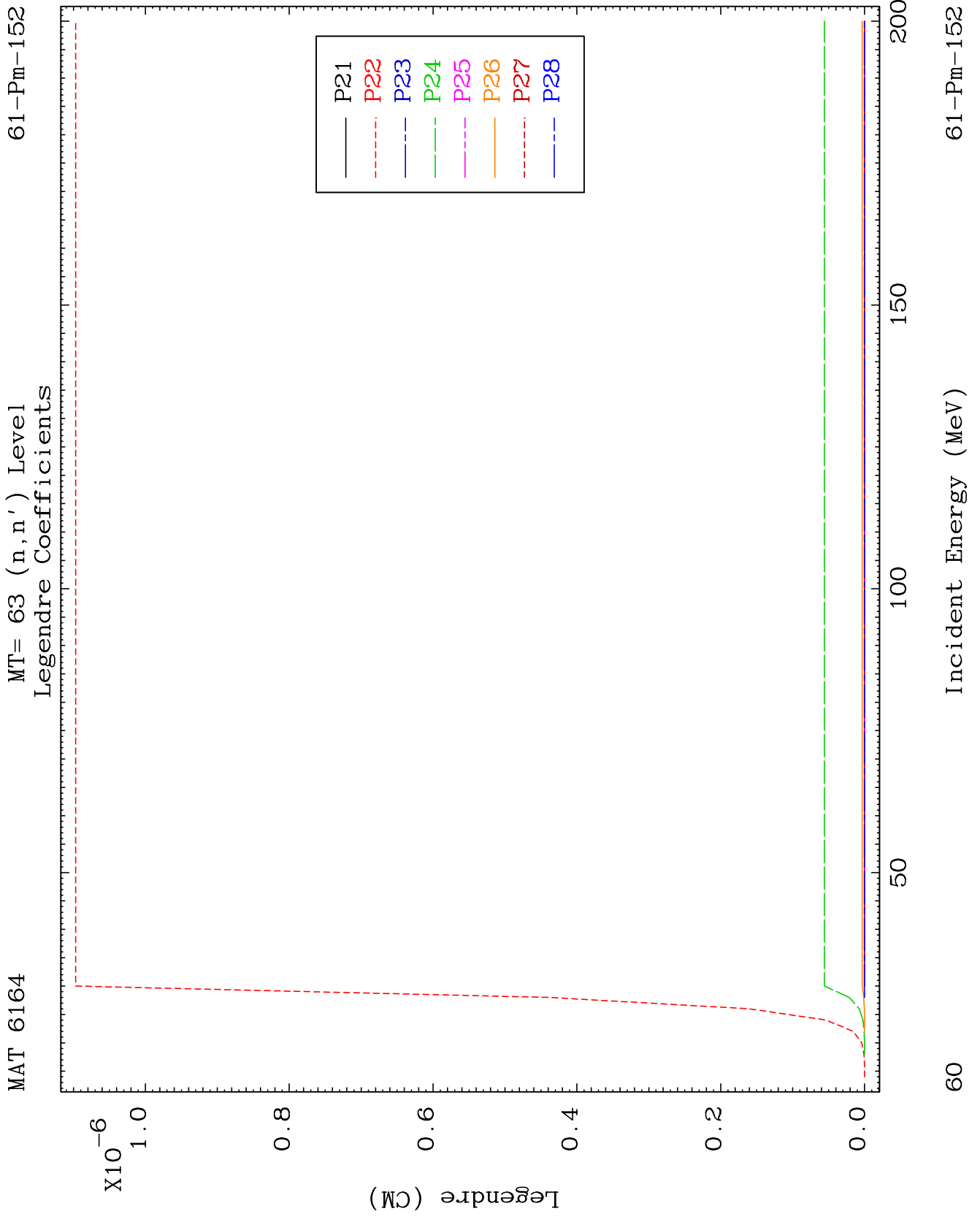
MT= 63 (n,n') Level
Legendre Coefficients

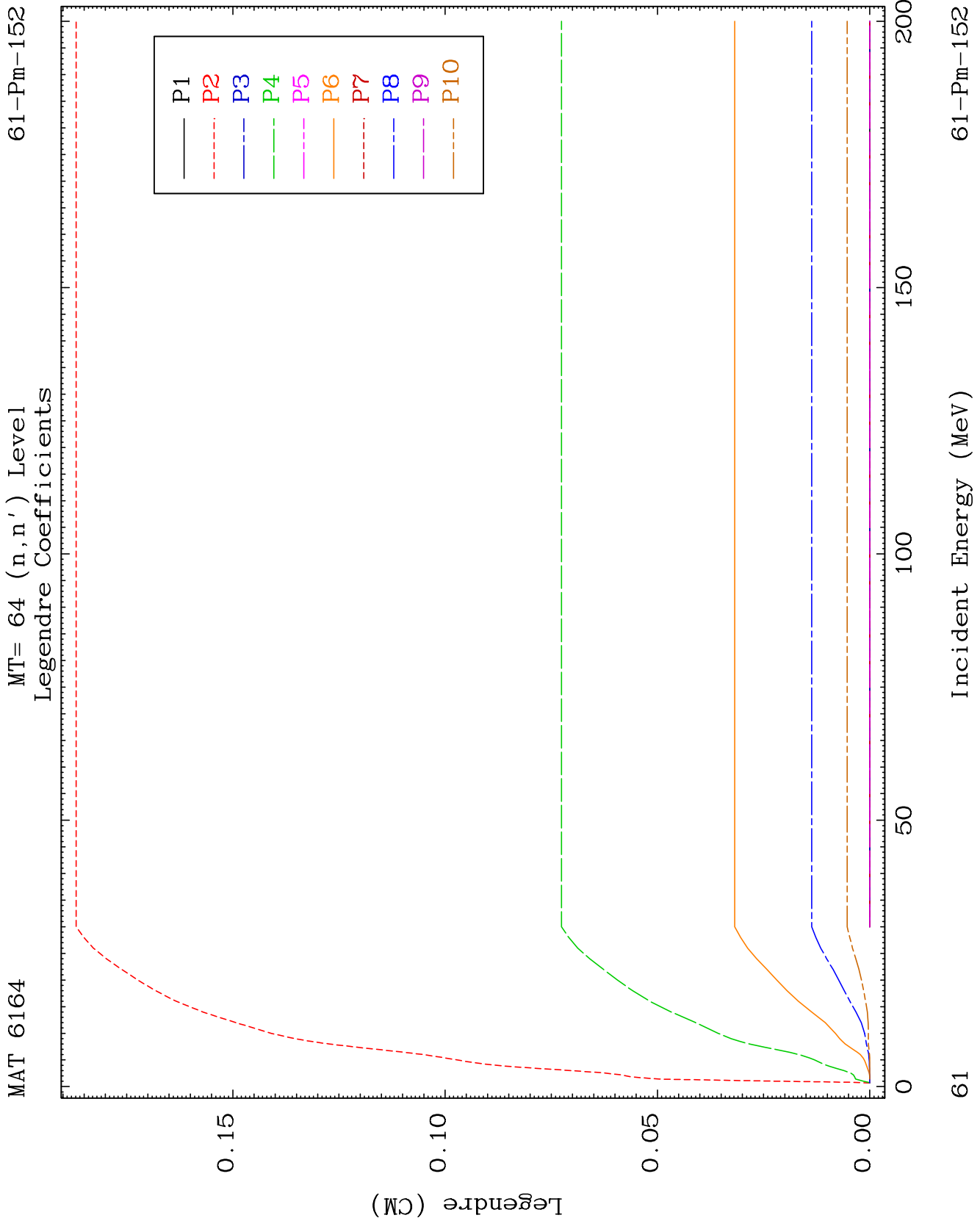
61-Pm-152

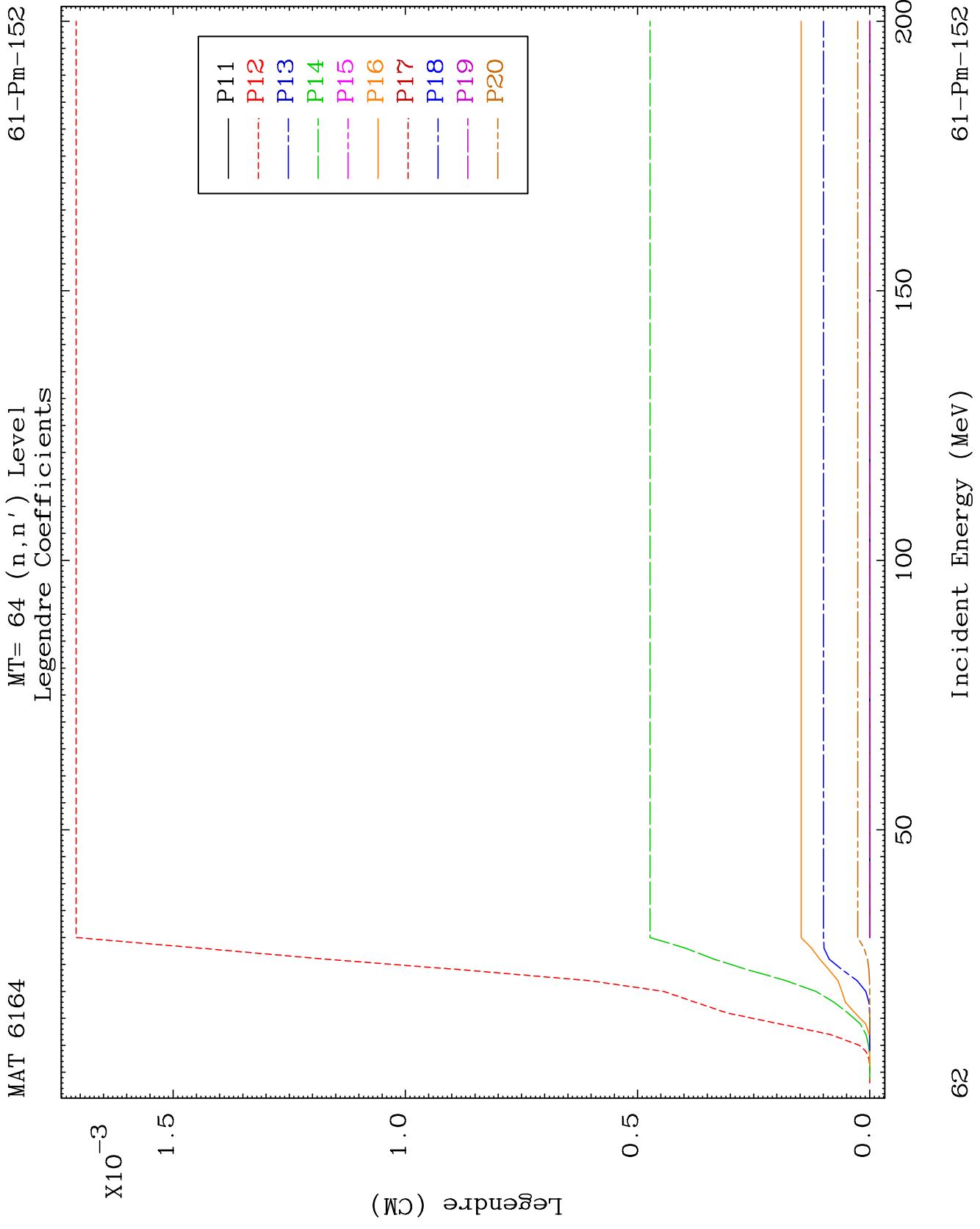


59

61-Pm-152



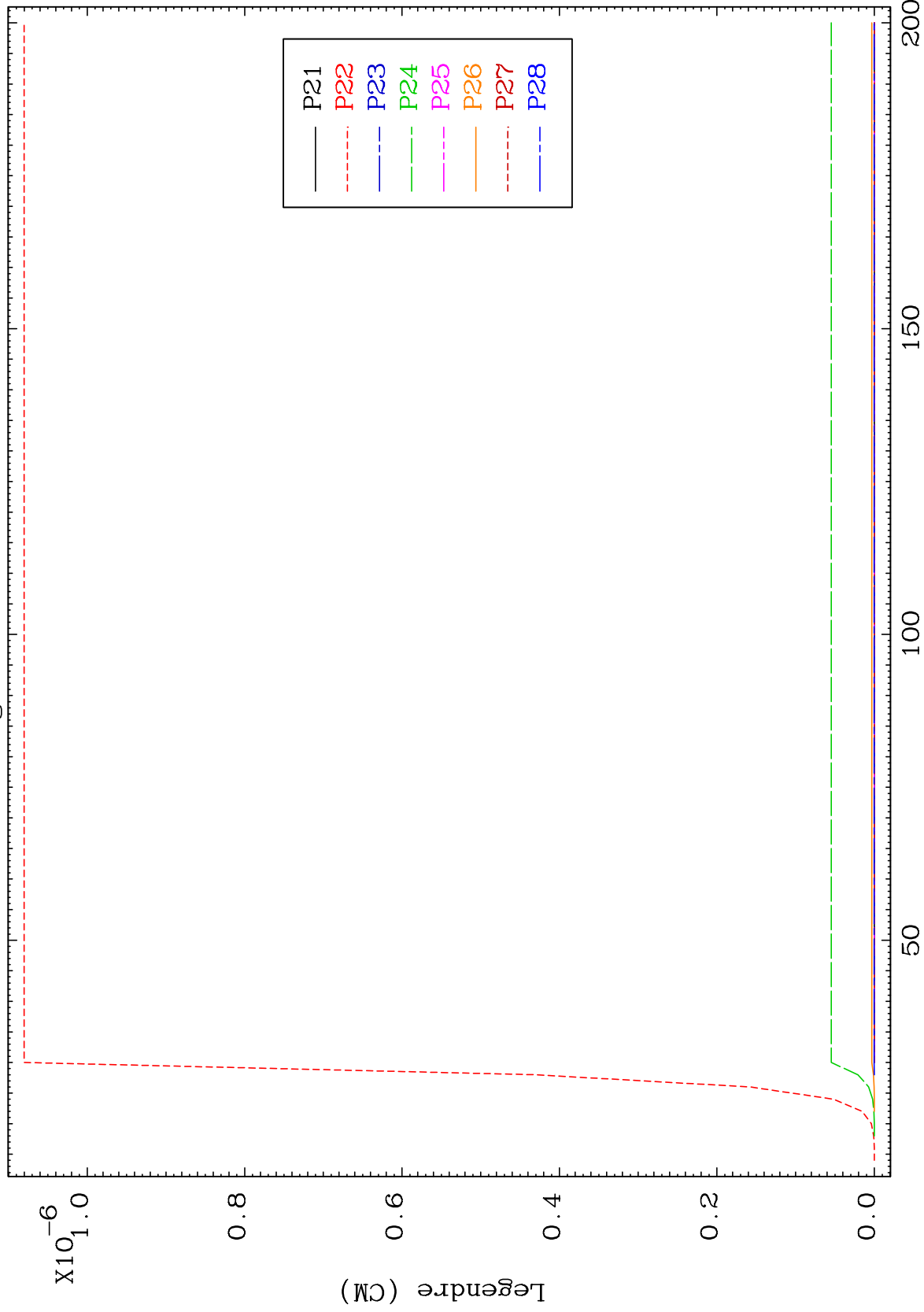




MAT 6164

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

61-Pm-152



63

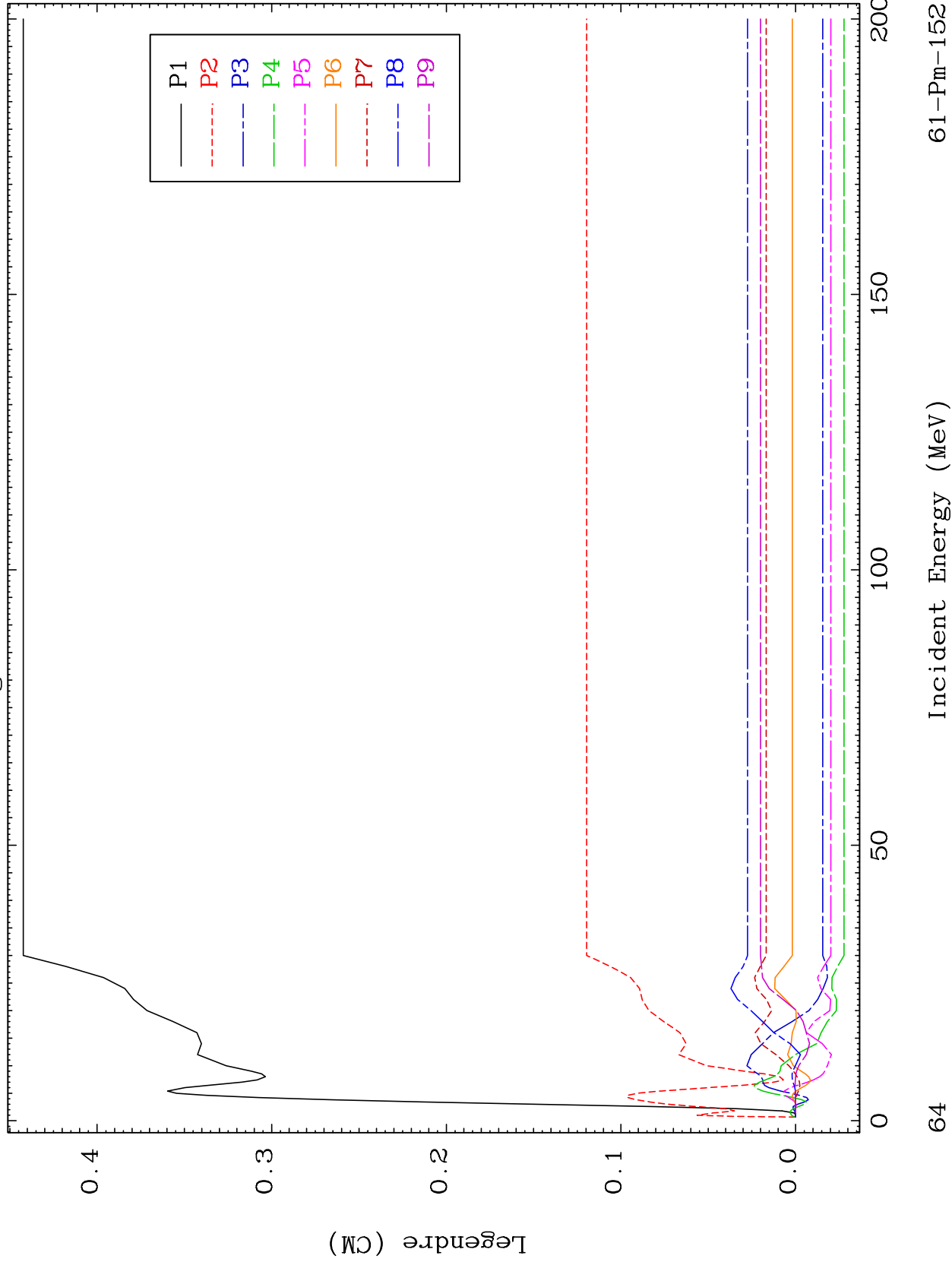
Incident Energy (MeV)

61-Pm-152

MAT 6164

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

61-Pm-152



64

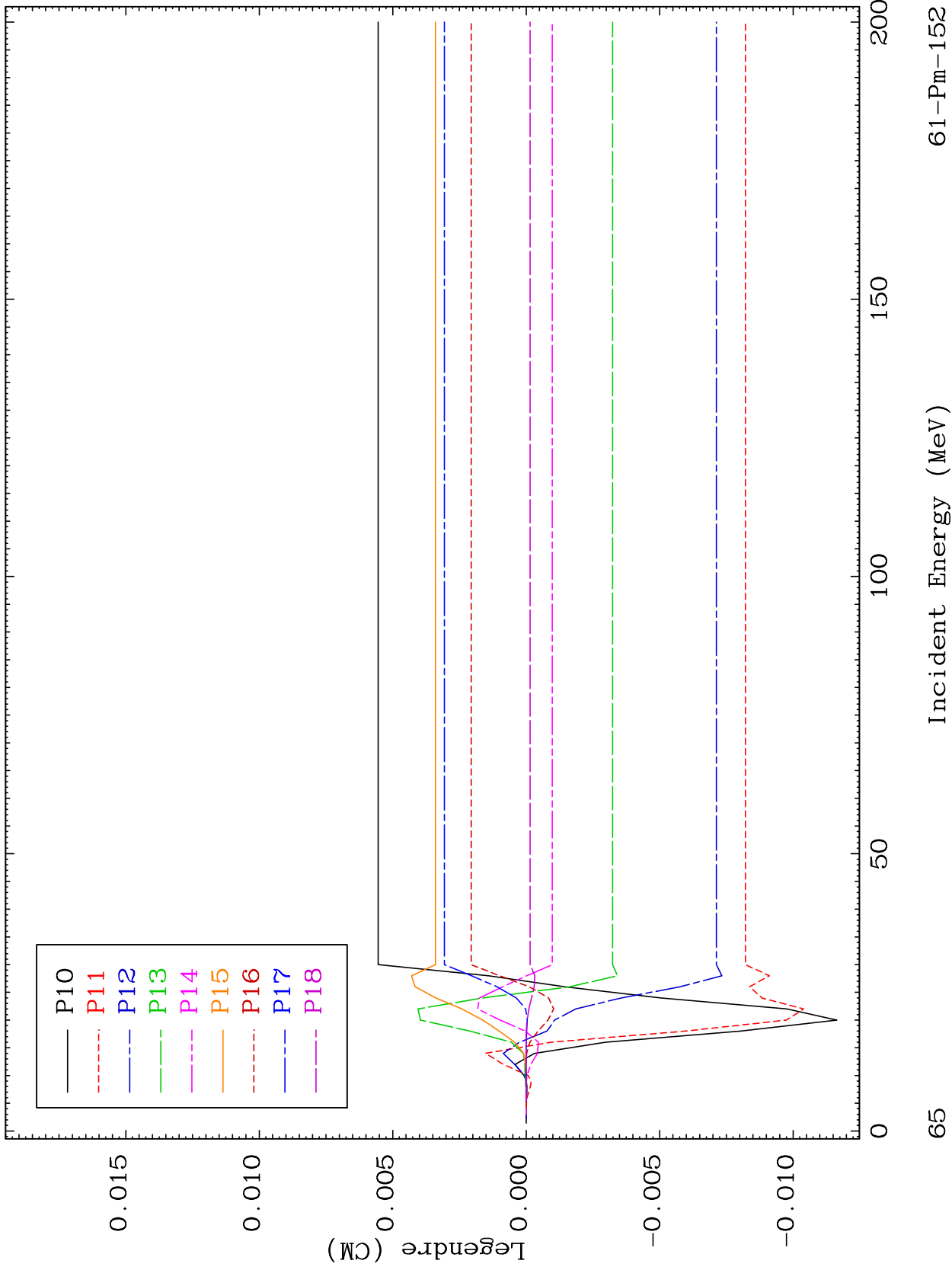
Incident Energy (MeV)

61-Pm-152

MAT 6164

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

61-Pm-152

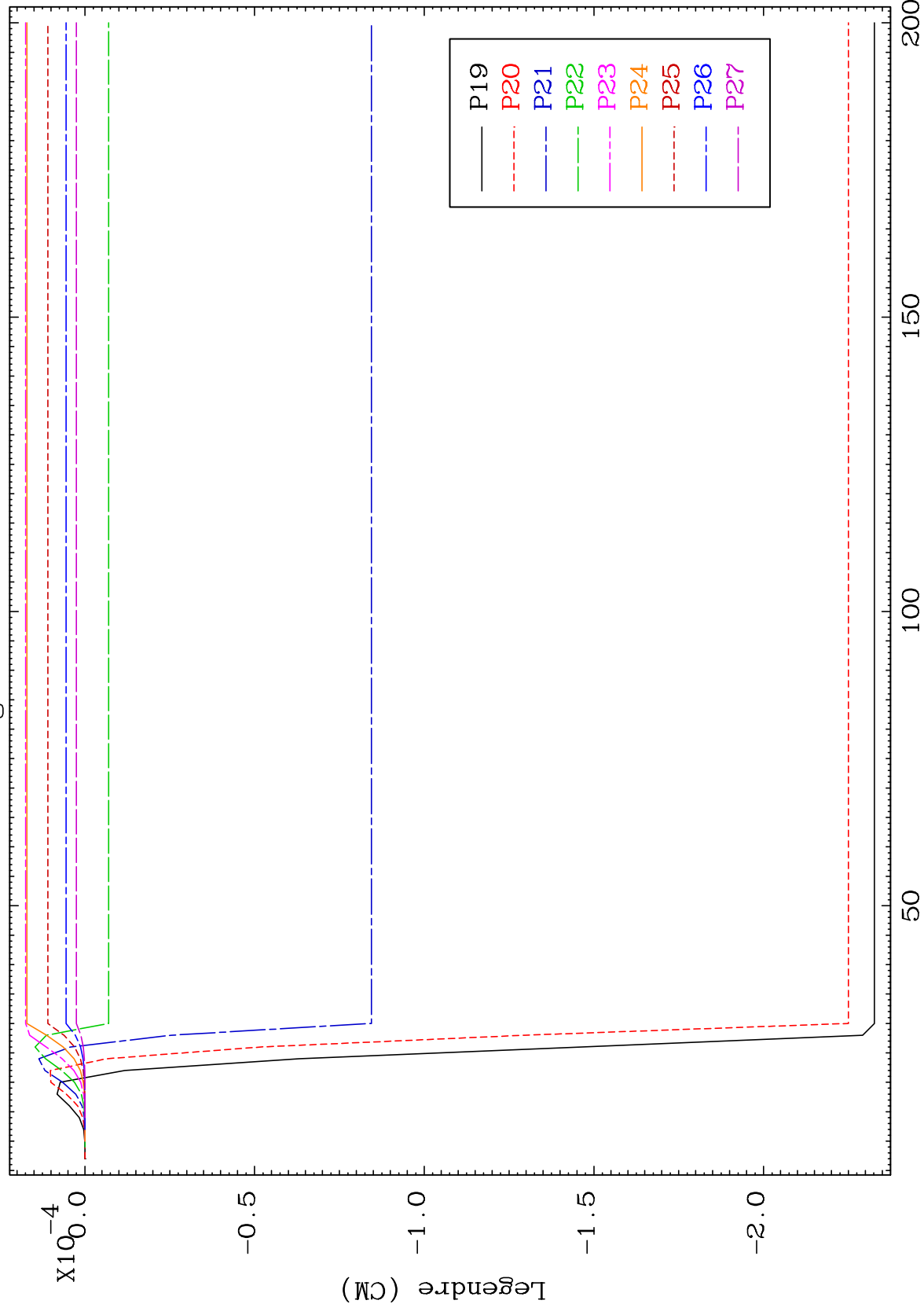


61-Pm-152

MAT 6164

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

61-Pm-152



66

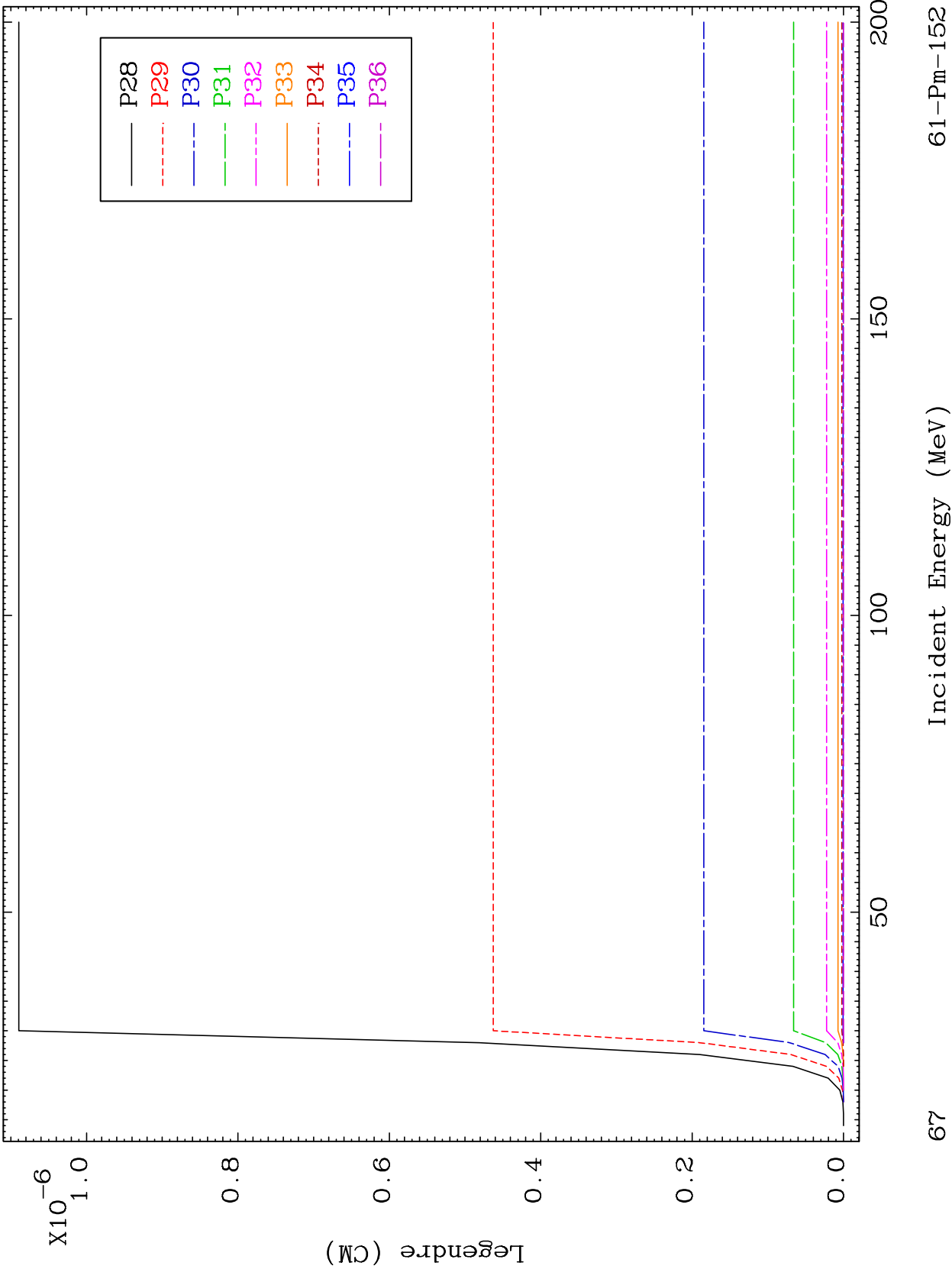
Incident Energy (MeV)

61-Pm-152

MAT 6164

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

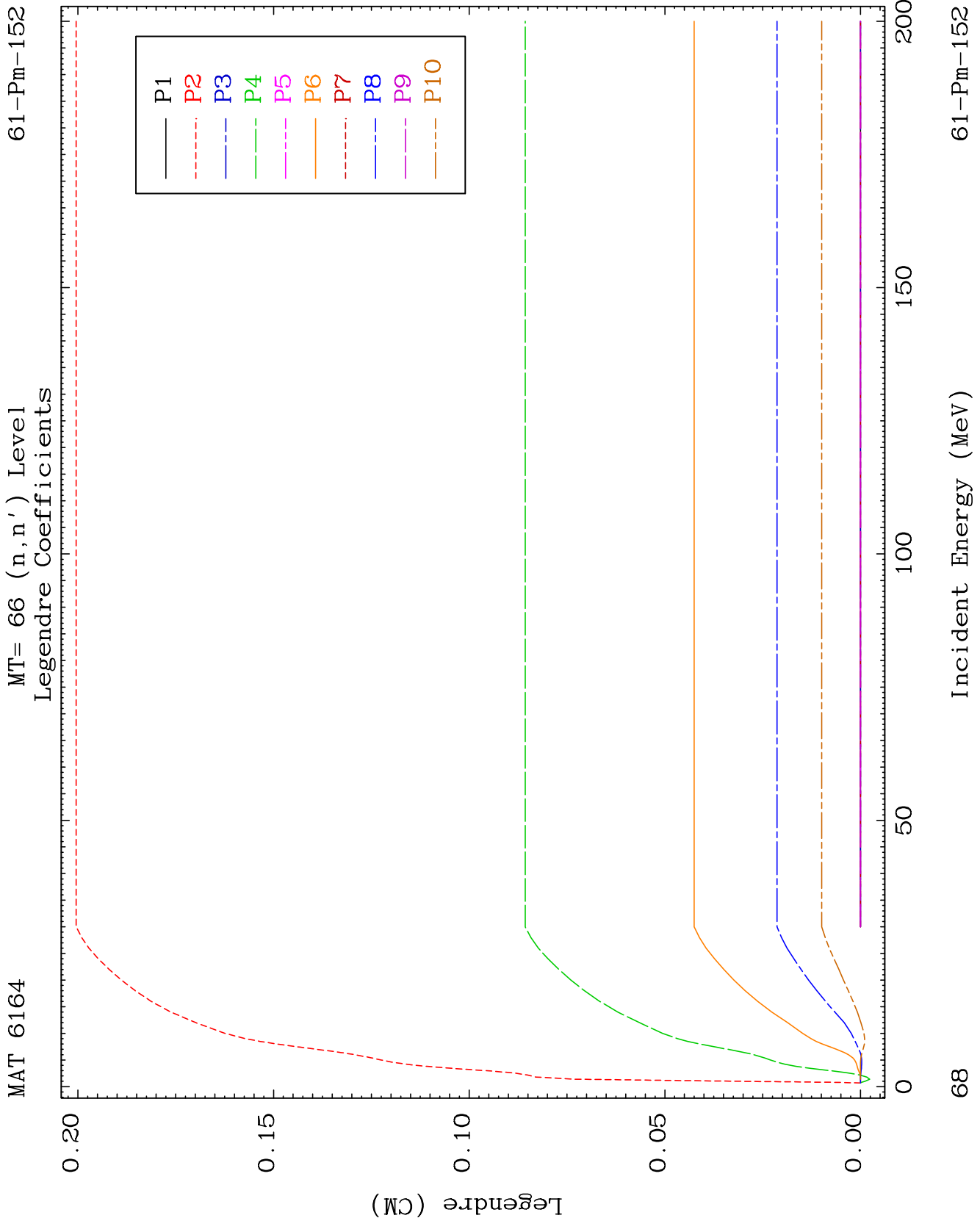
61-Pm-152

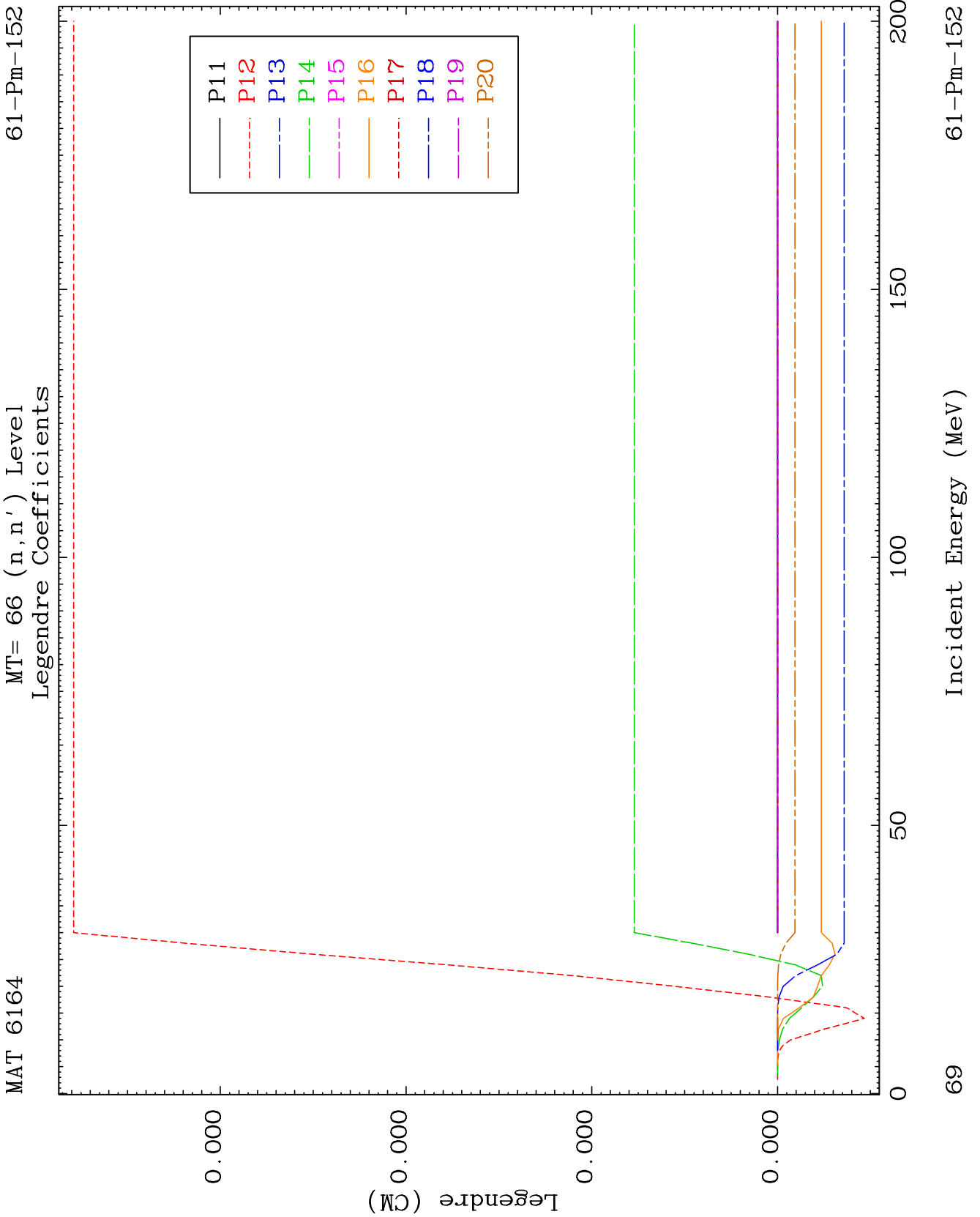


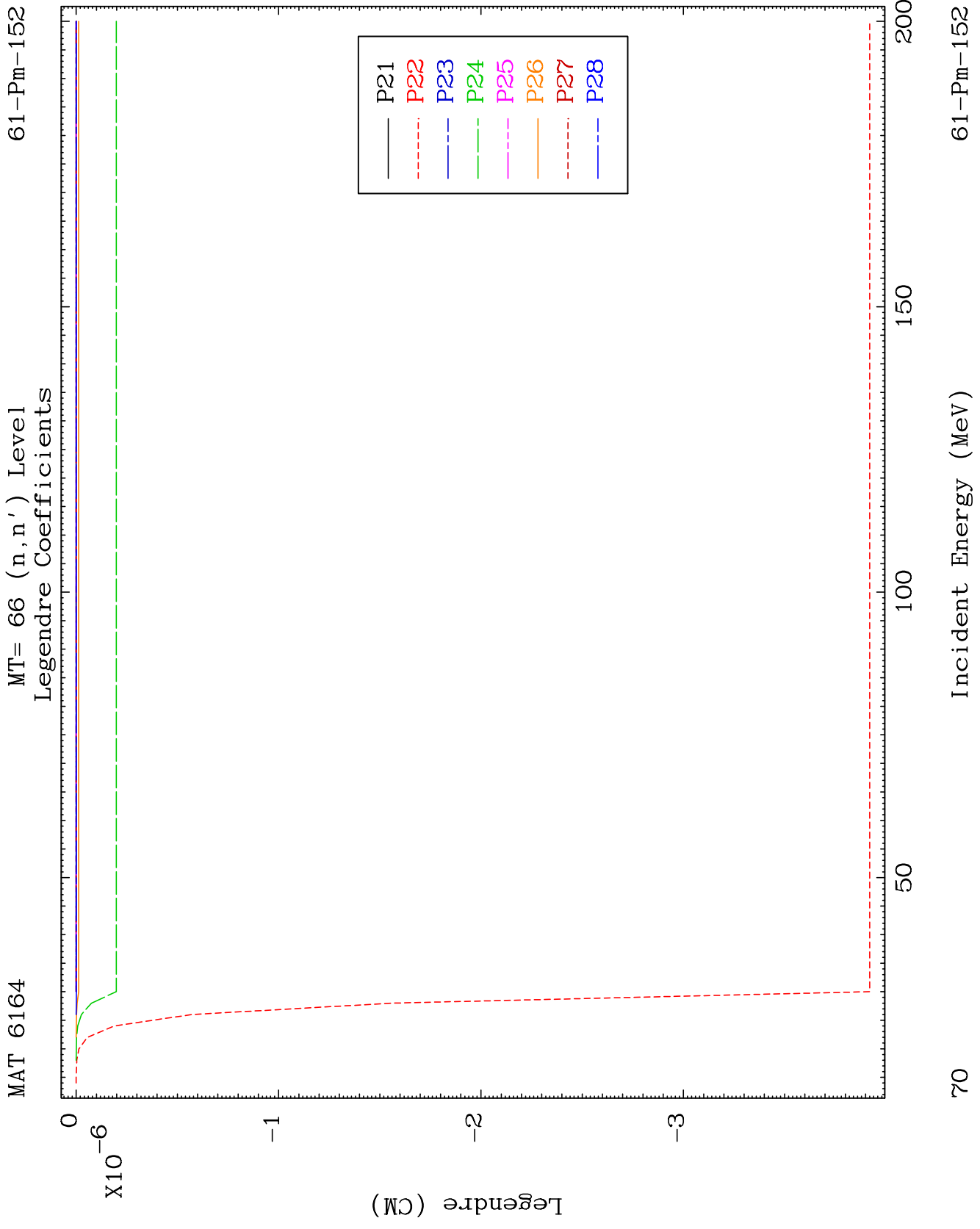
67

Incident Energy (MeV)

61-Pm-152



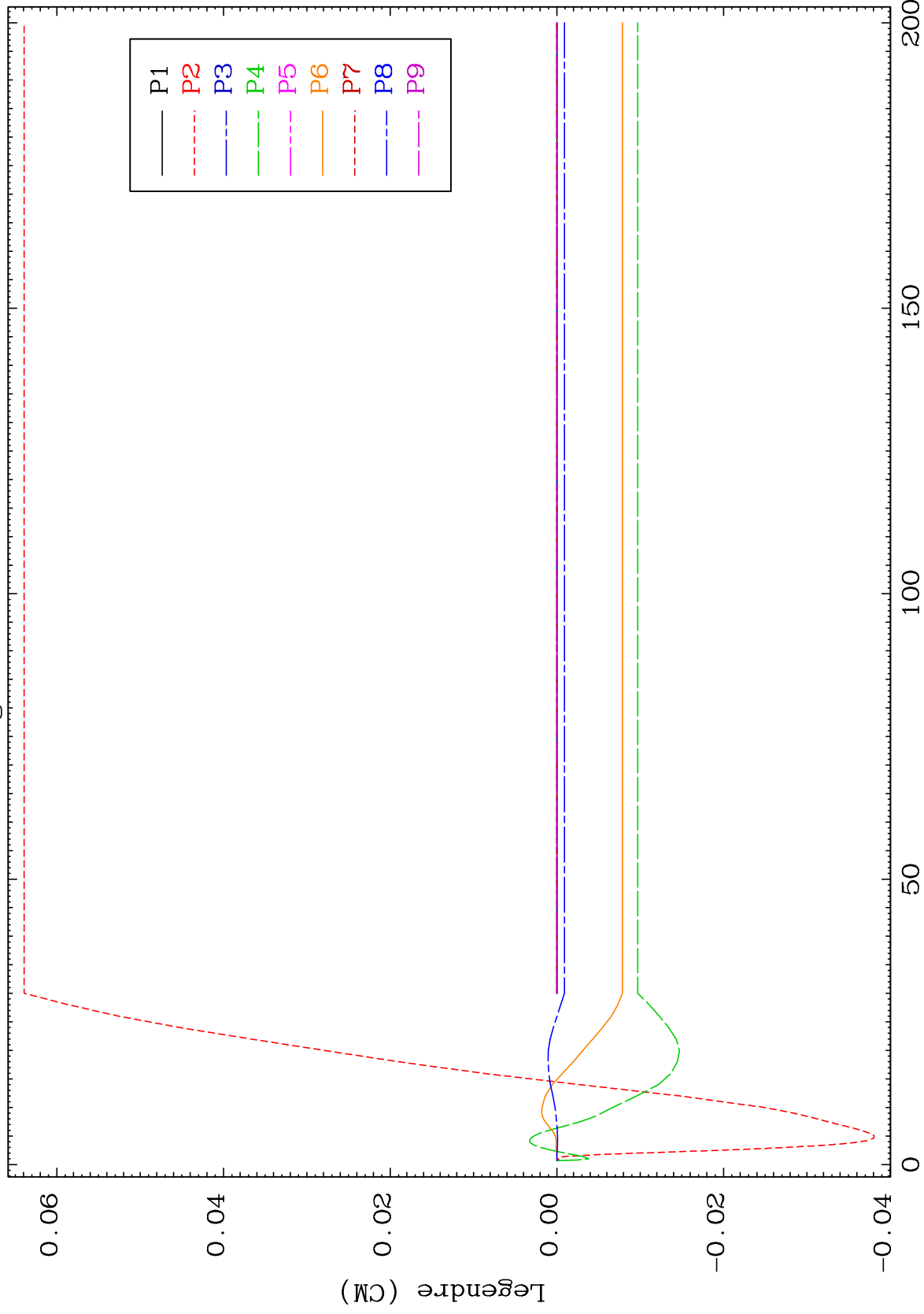




MAT 6164

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

61-Pm-152



71

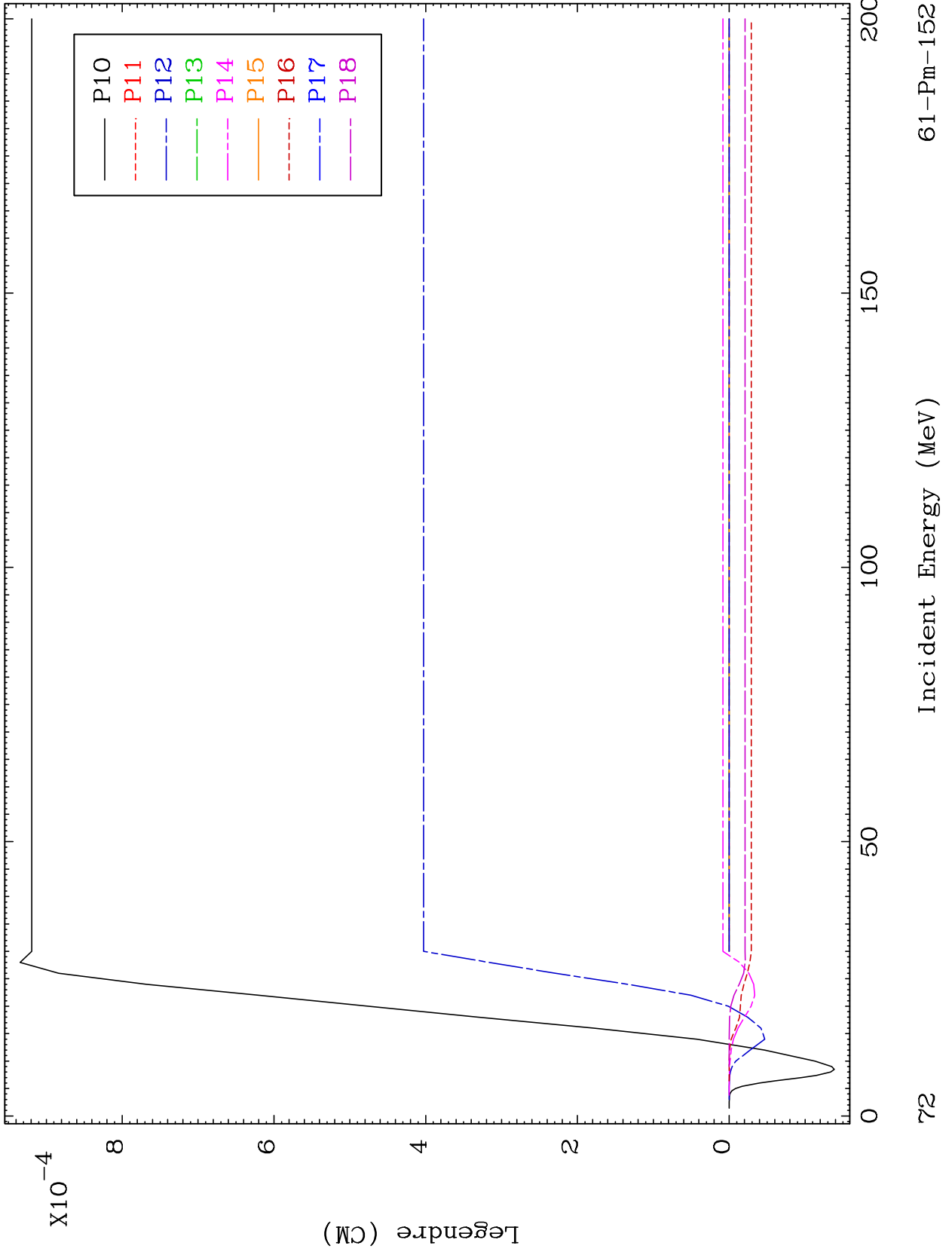
Incident Energy (MeV)

61-Pm-152

MAT 6164

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

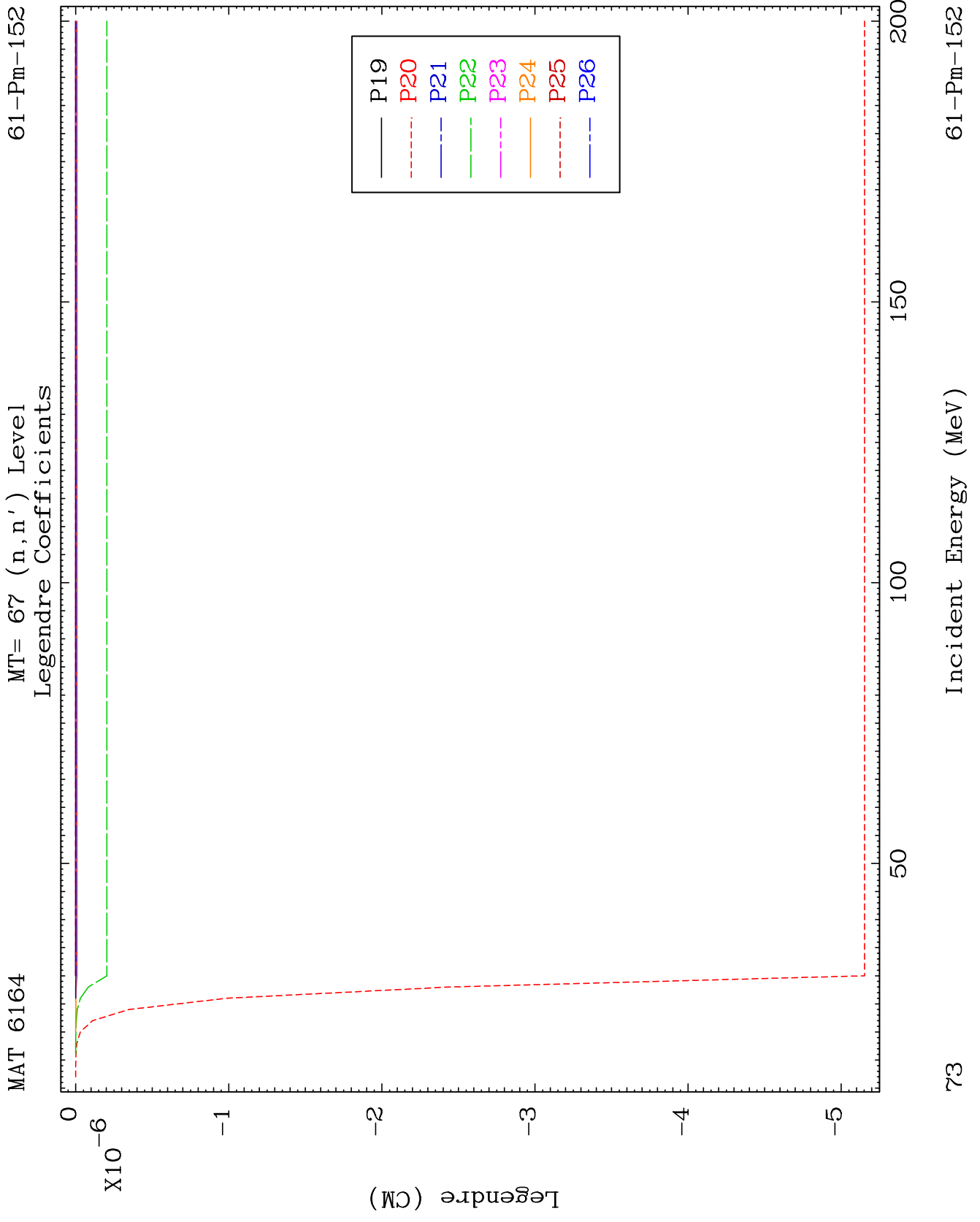
61-Pm-152



72

Incident Energy (MeV)

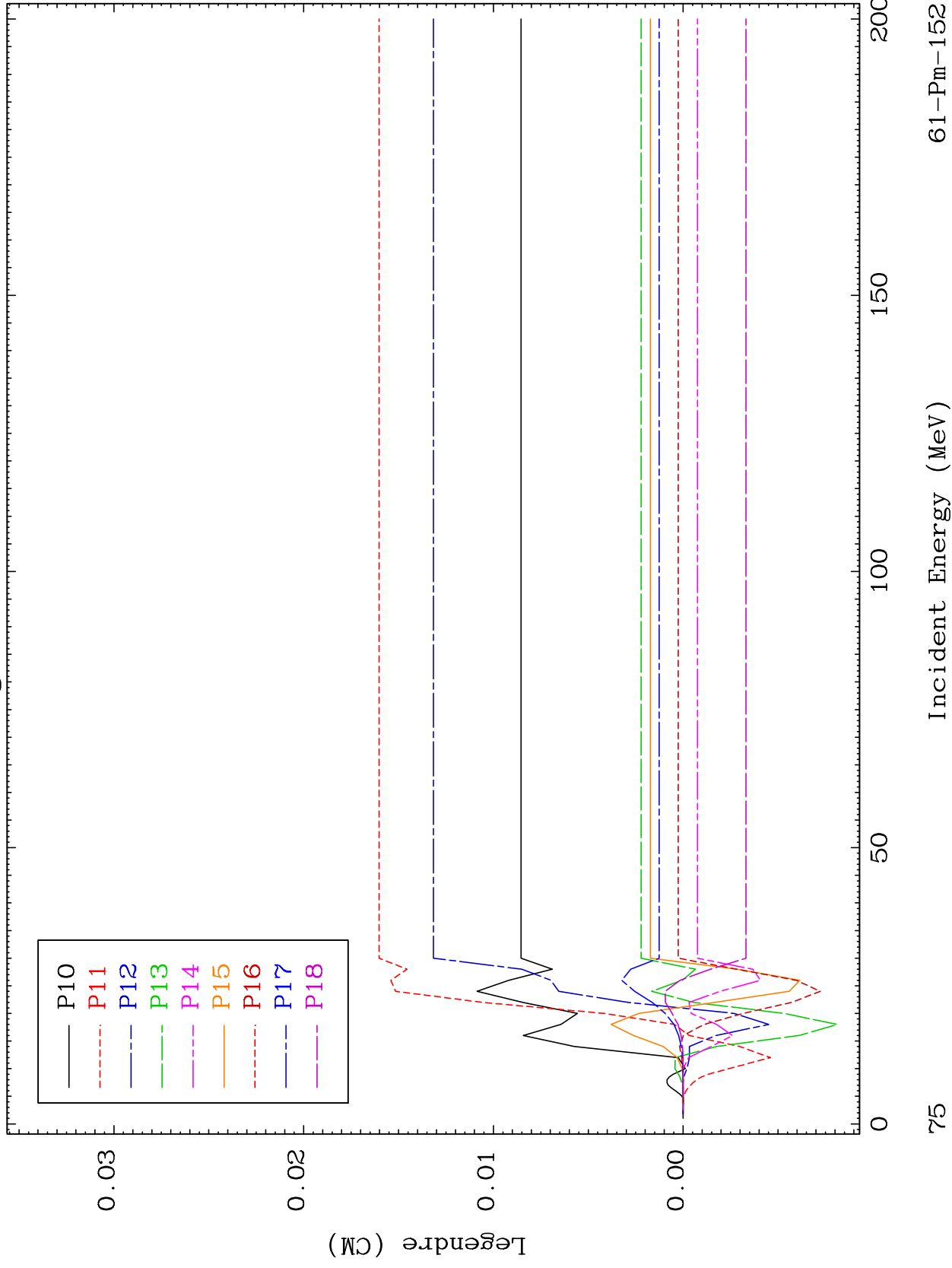
61-Pm-152



MAT 6164

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

61-Pm-152



61-Pm-152

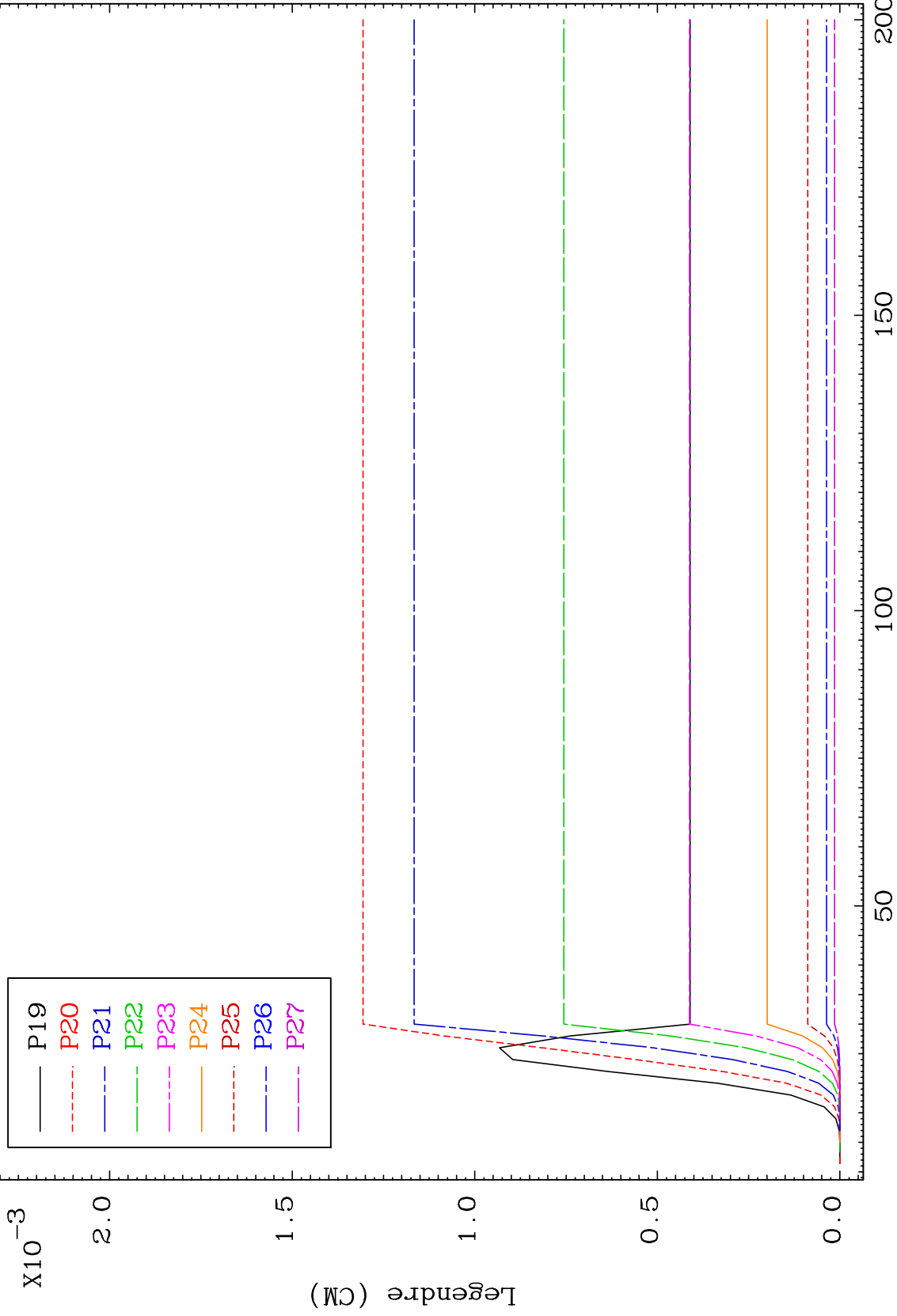
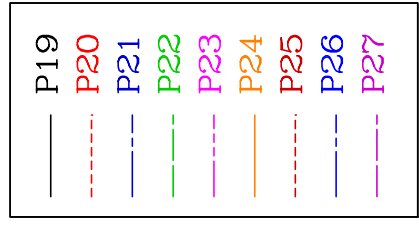
Incident Energy (MeV)

75

MAT 6164

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

61-Pm-152



76

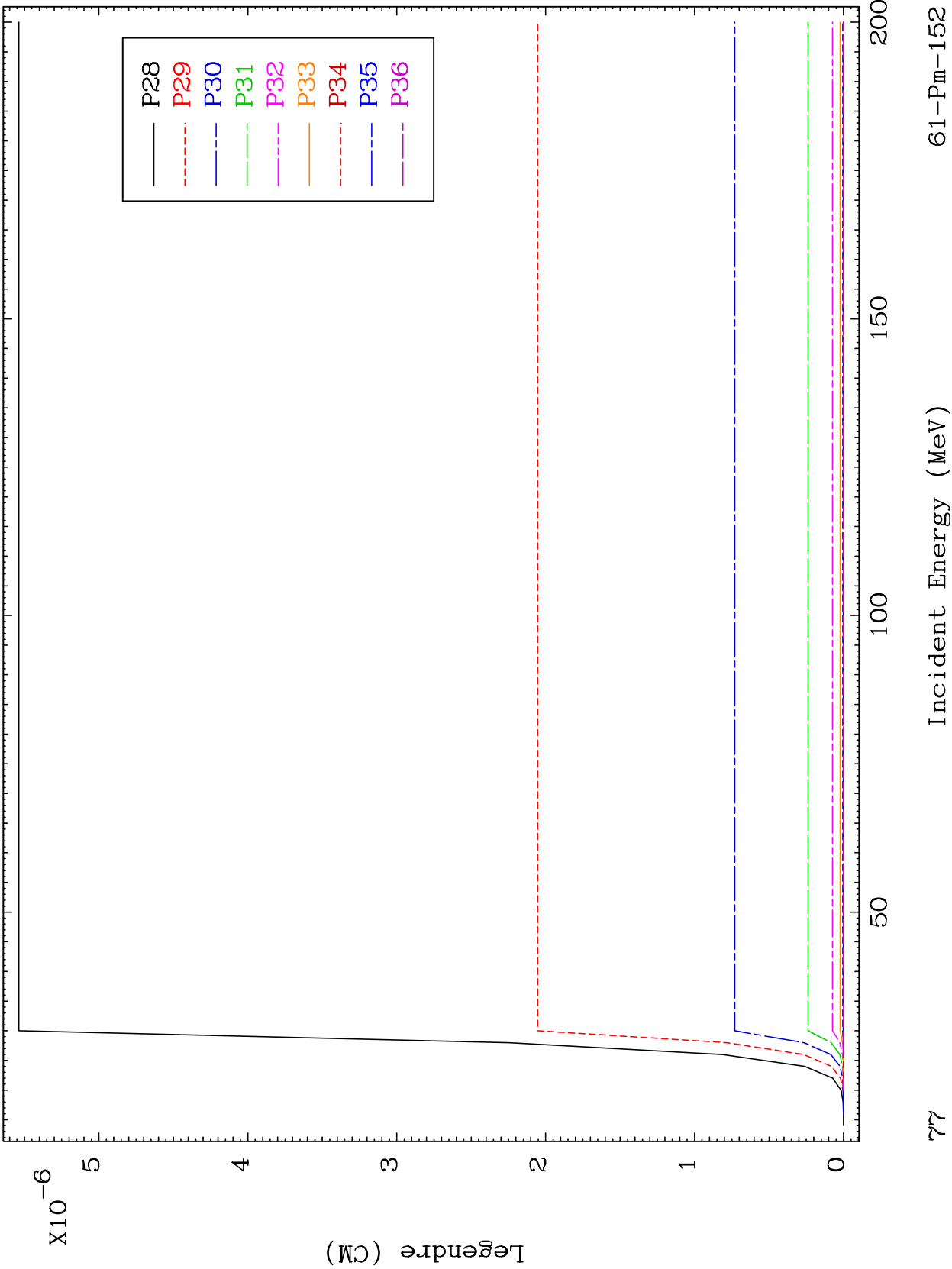
Incident Energy (MeV)

61-Pm-152

MAT 6164

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

61-Pm-152



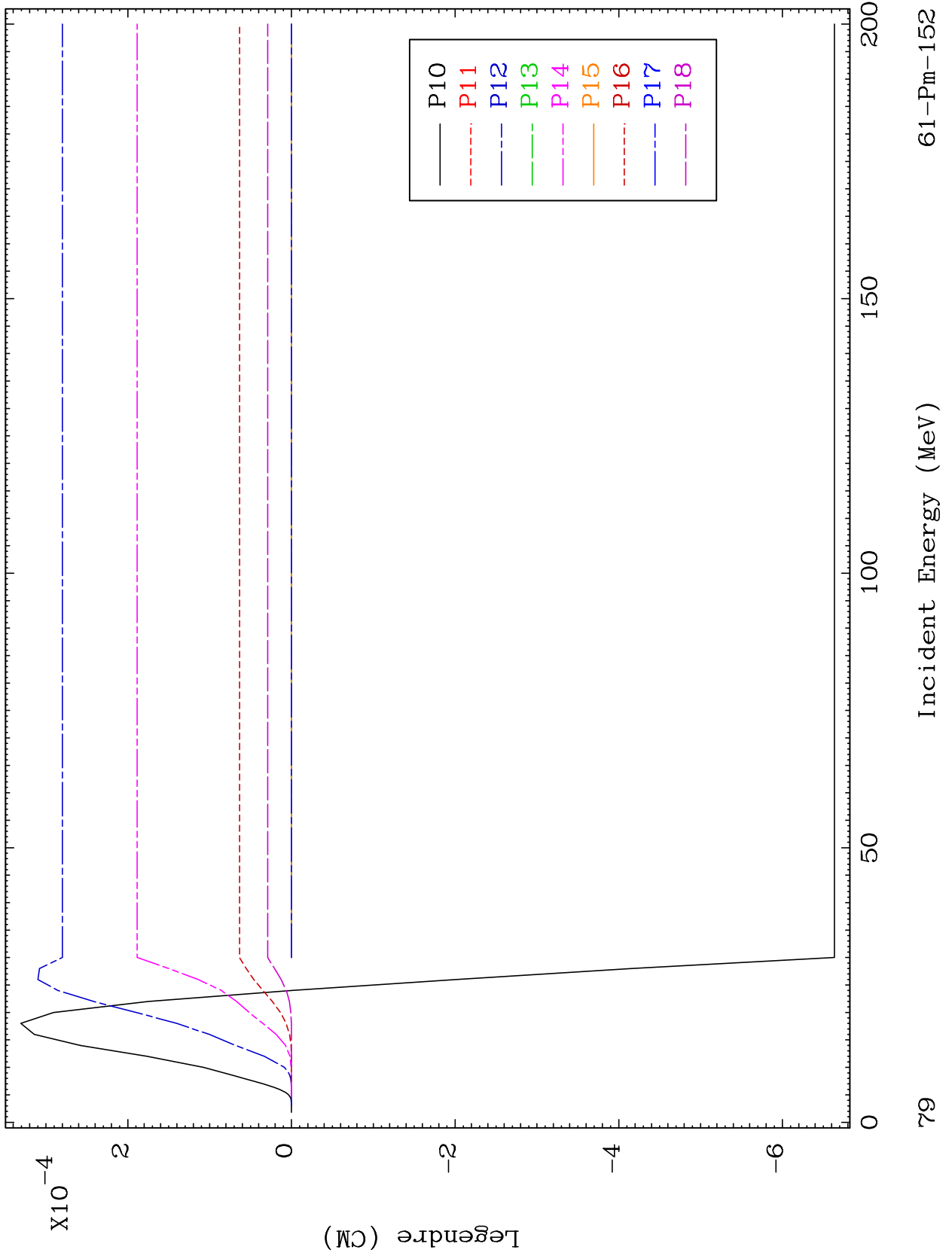
77

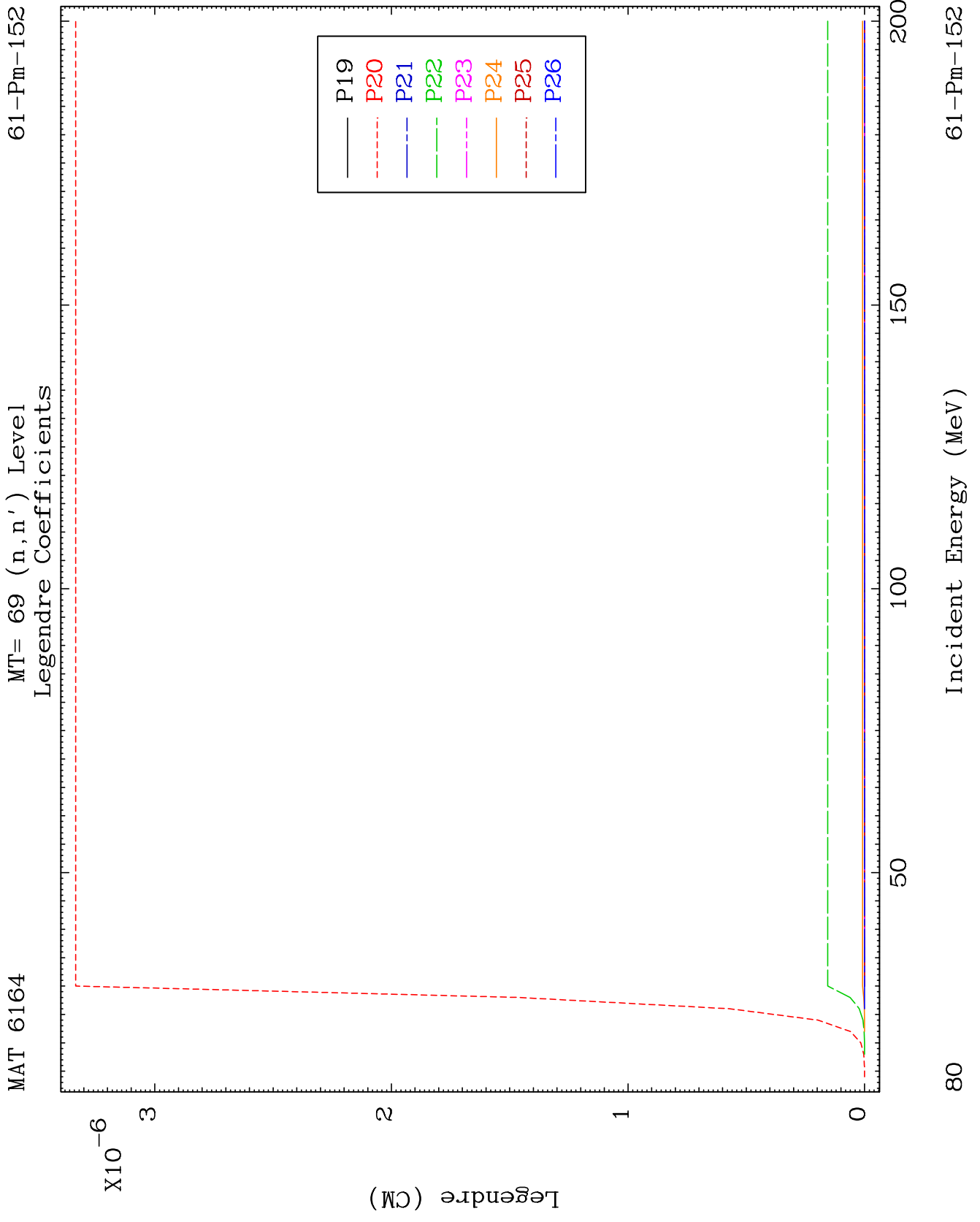
61-Pm-152

MAT 6164

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

61-Pm-152

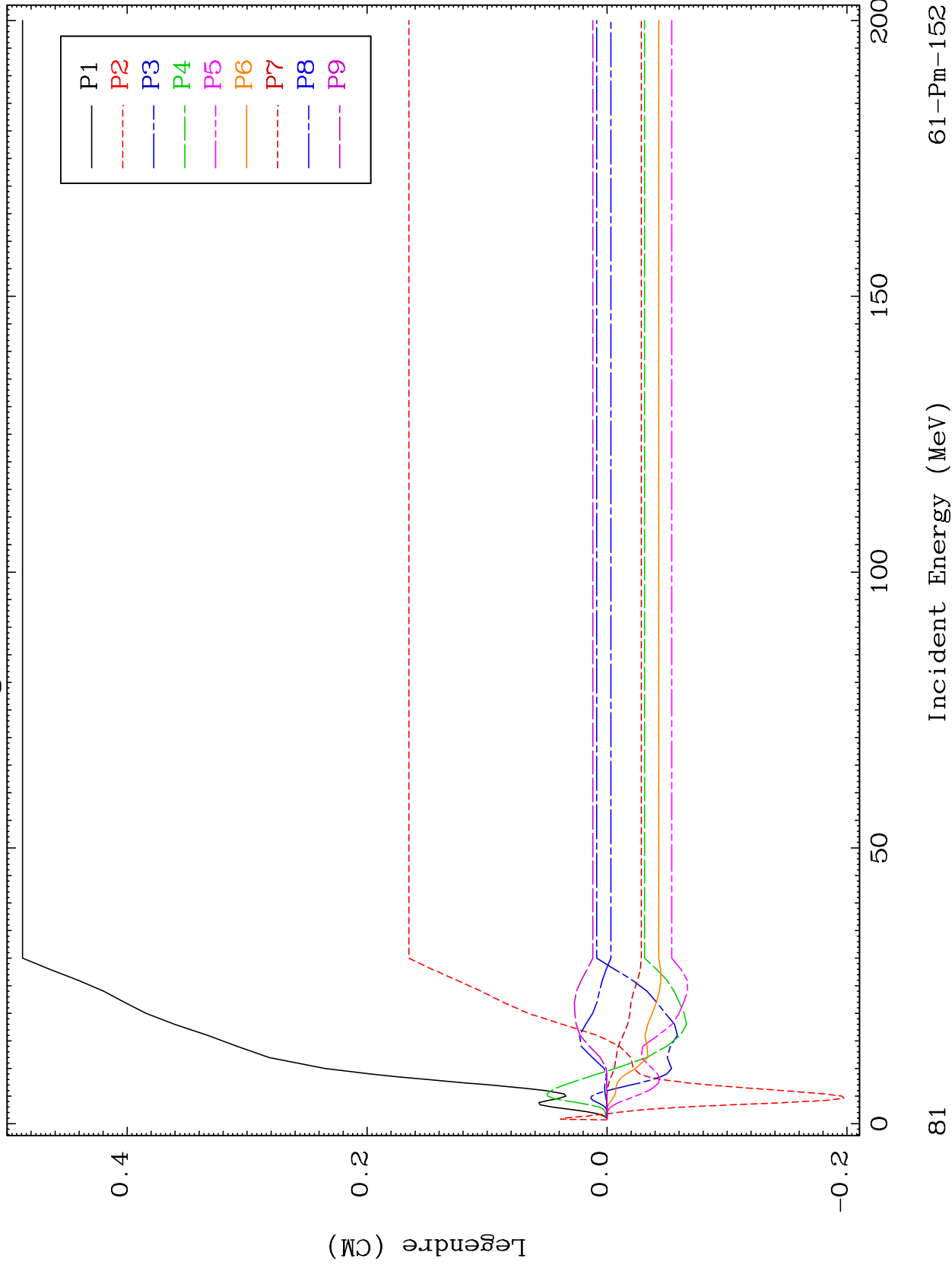




MAT 6164

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

61-Pm-152



61-Pm-152

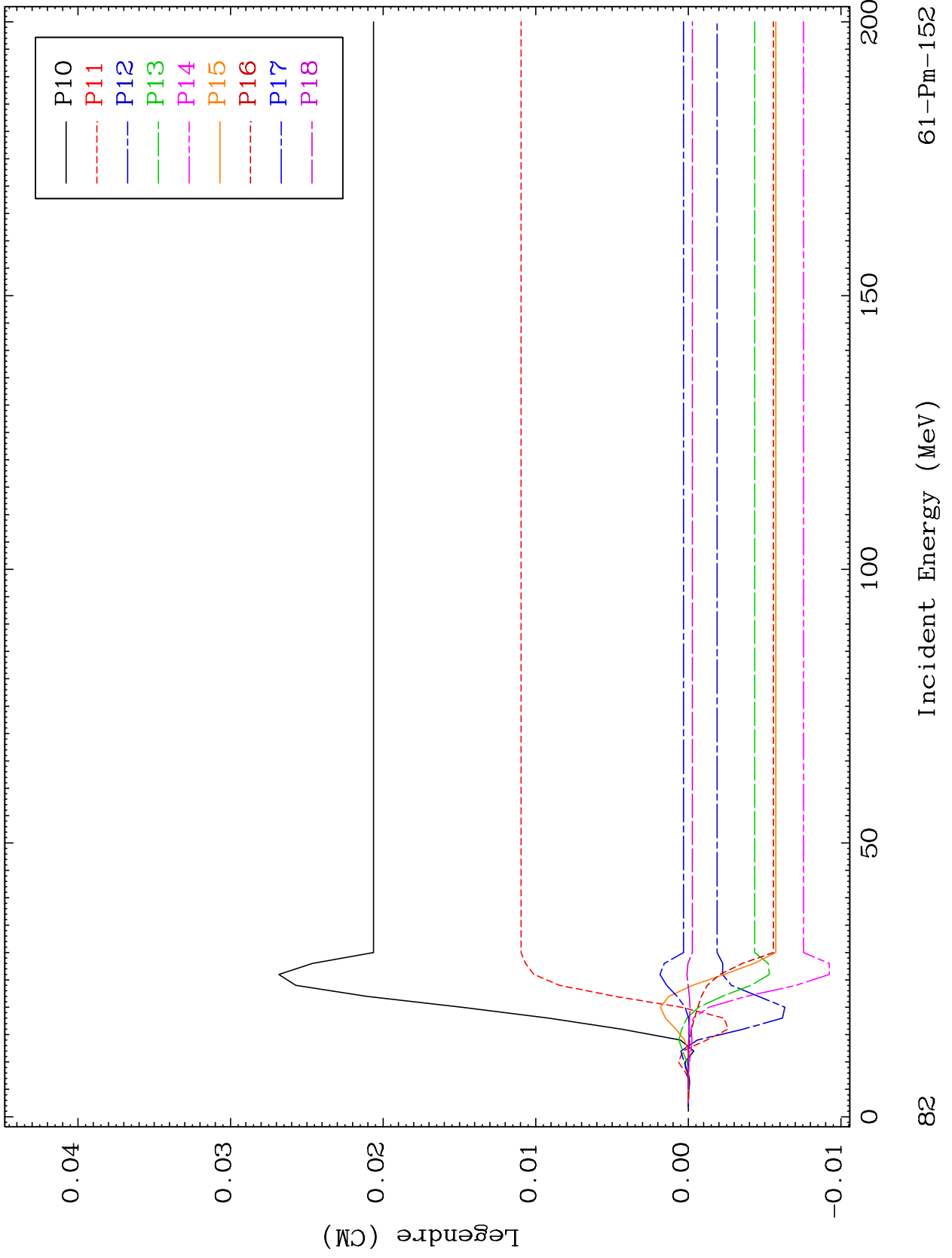
Incident Energy (MeV)

81

MAT 6164

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

61-Pm-152



61-Pm-152

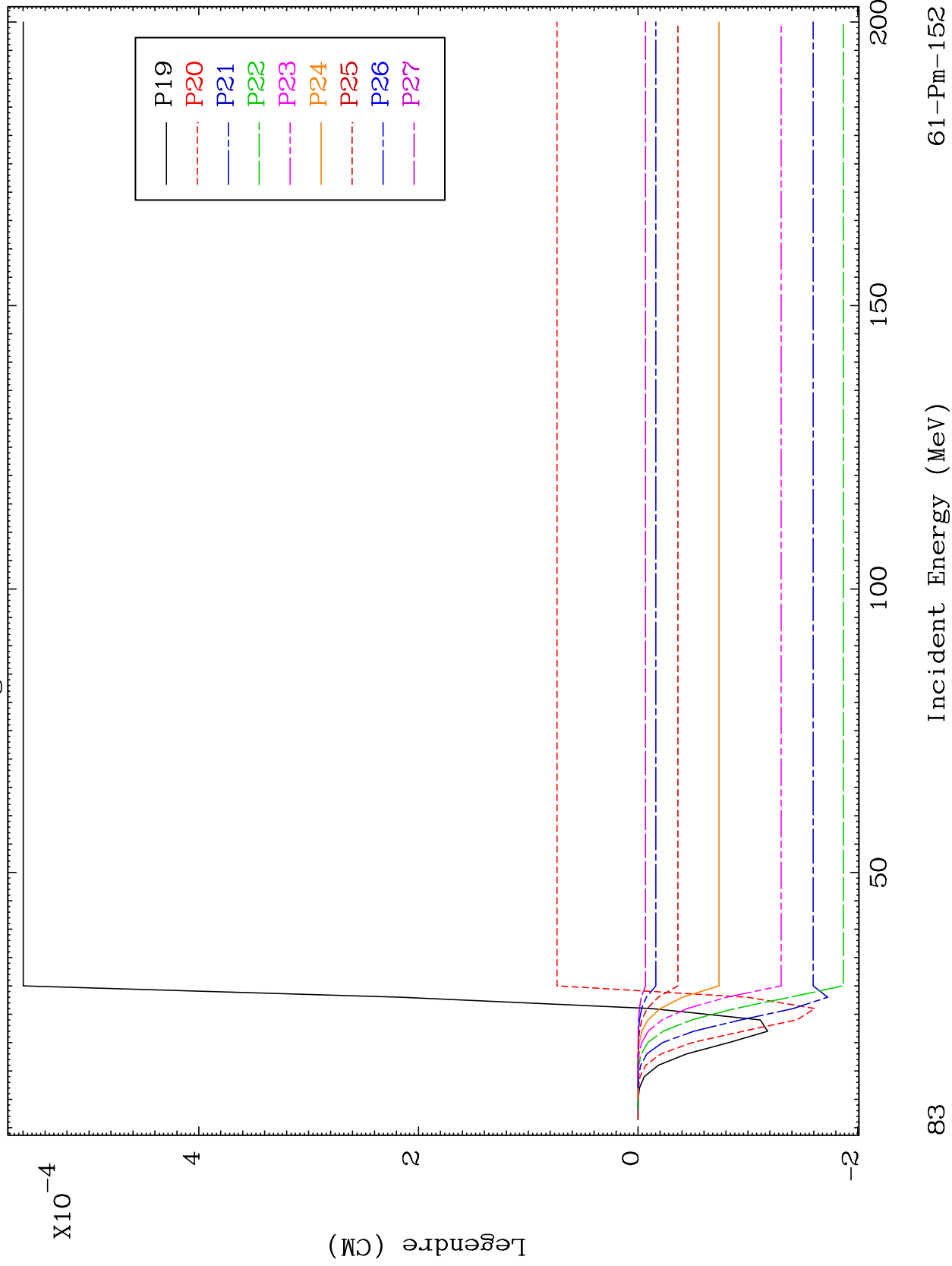
Incident Energy (MeV)

82

MAT 6164

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

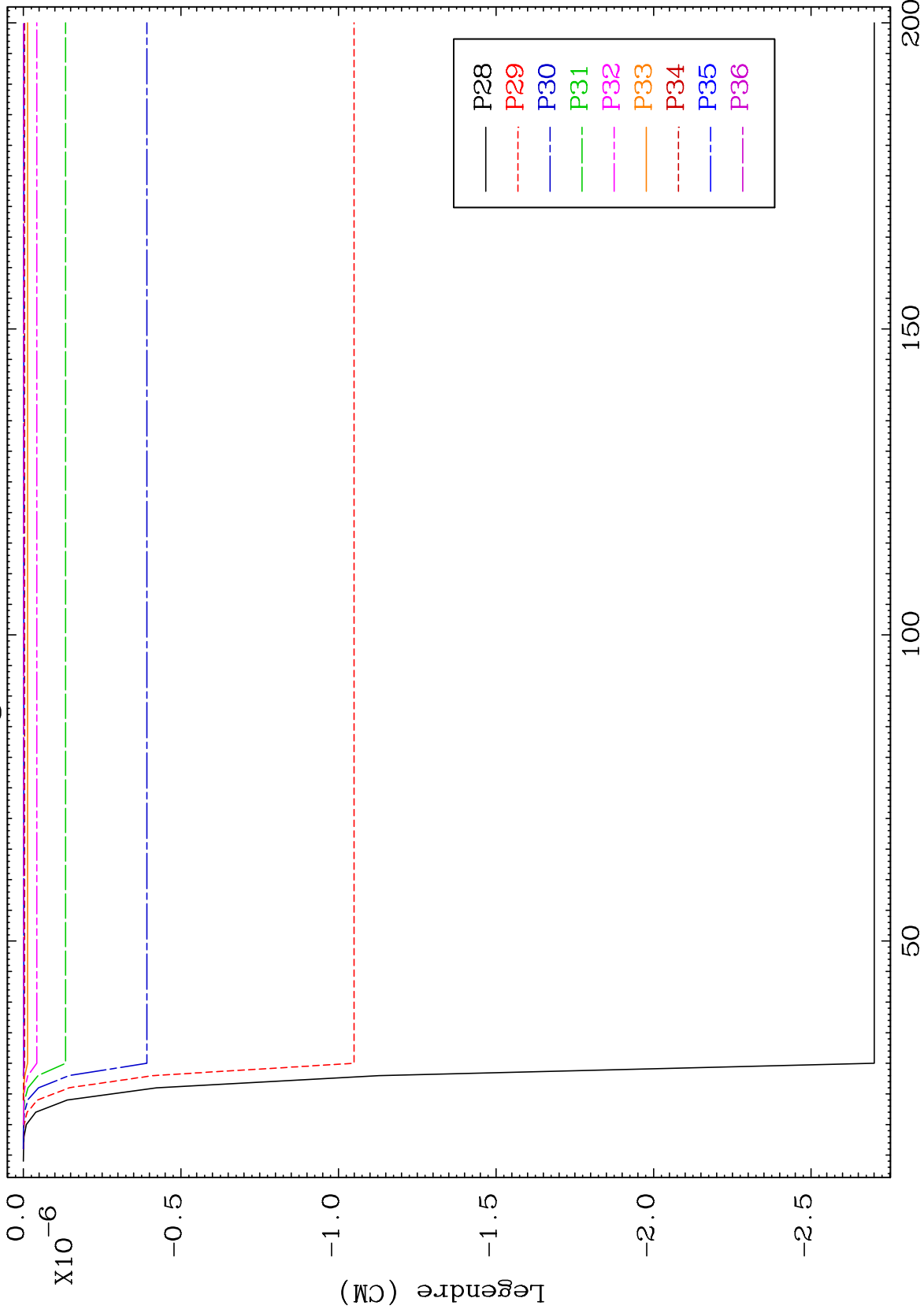
61-Pm-152



MAT 6164

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

61-Pm-152



84

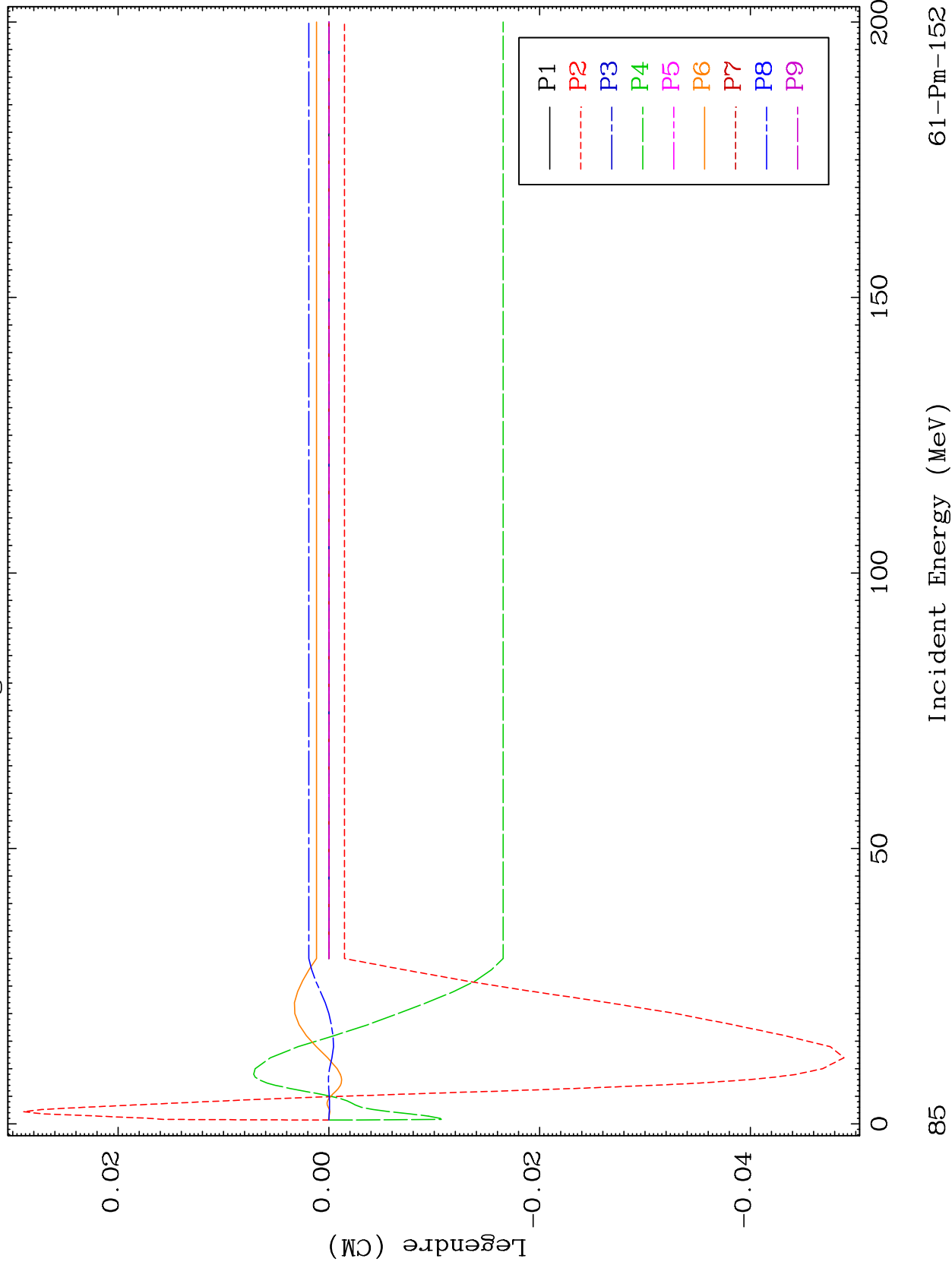
Incident Energy (MeV)

61-Pm-152

MAT 6164

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

61-Pm-152



61-Pm-152

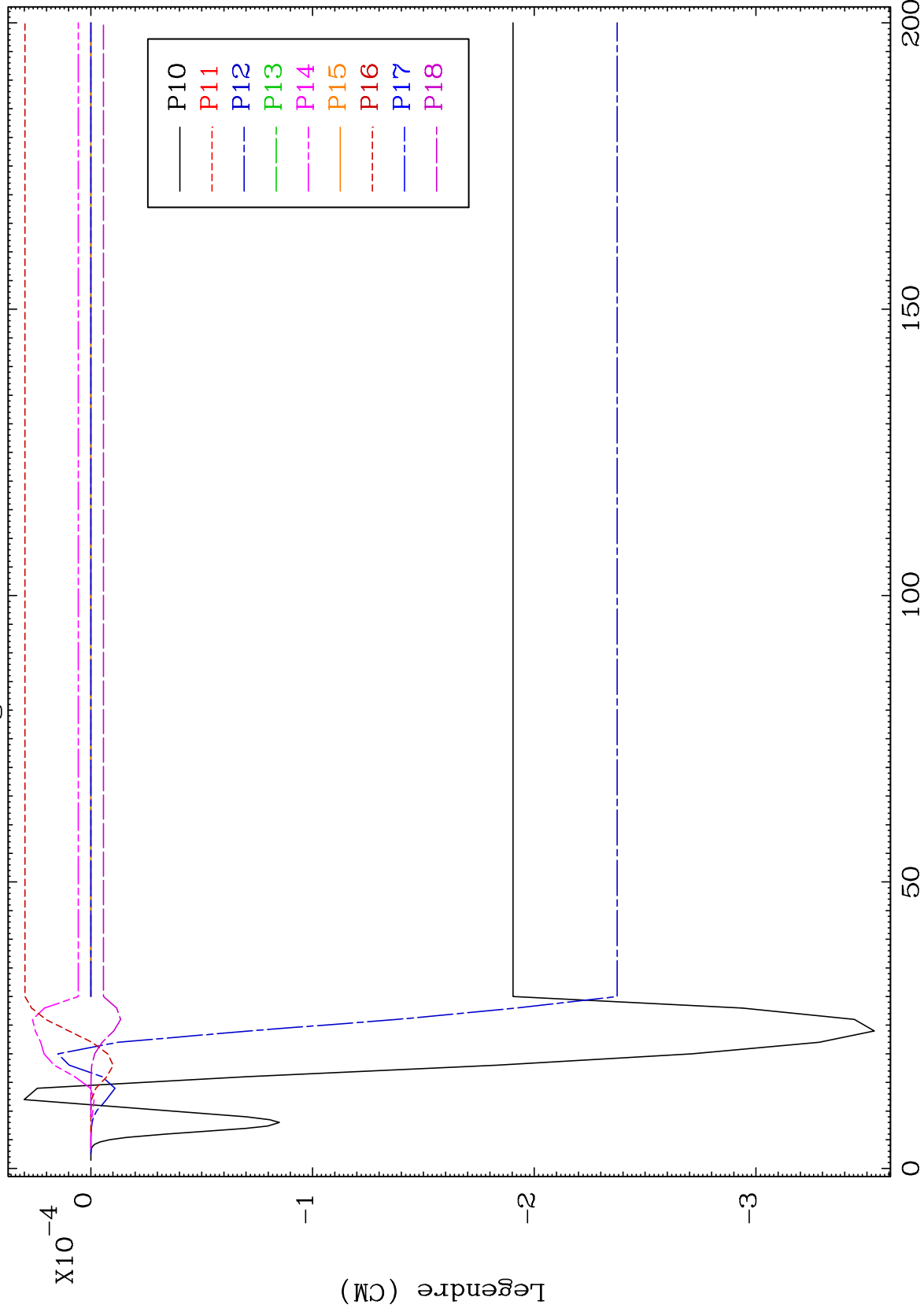
Incident Energy (MeV)

85

MAT 6164

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

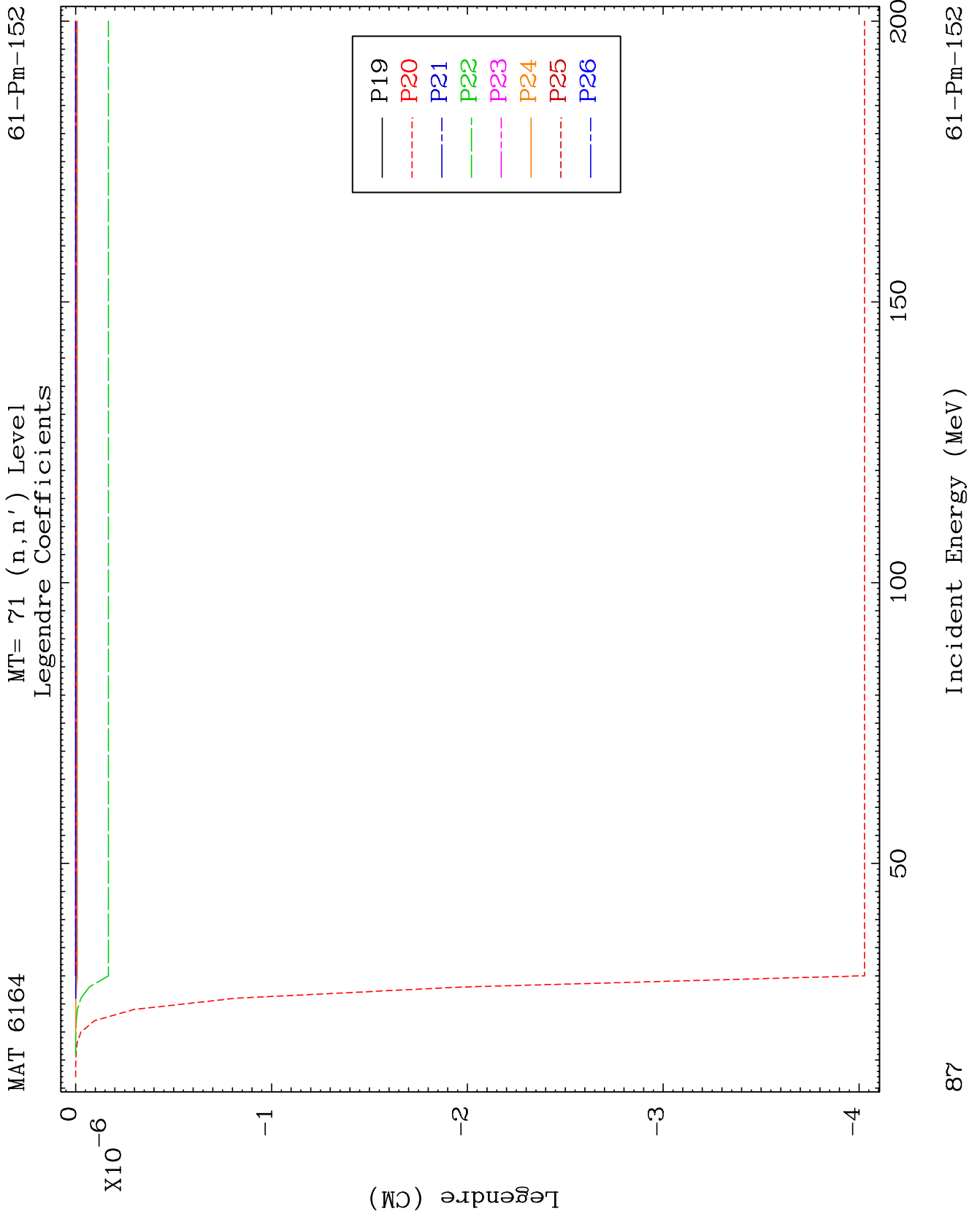
61-Pm-152



86

Incident Energy (MeV)

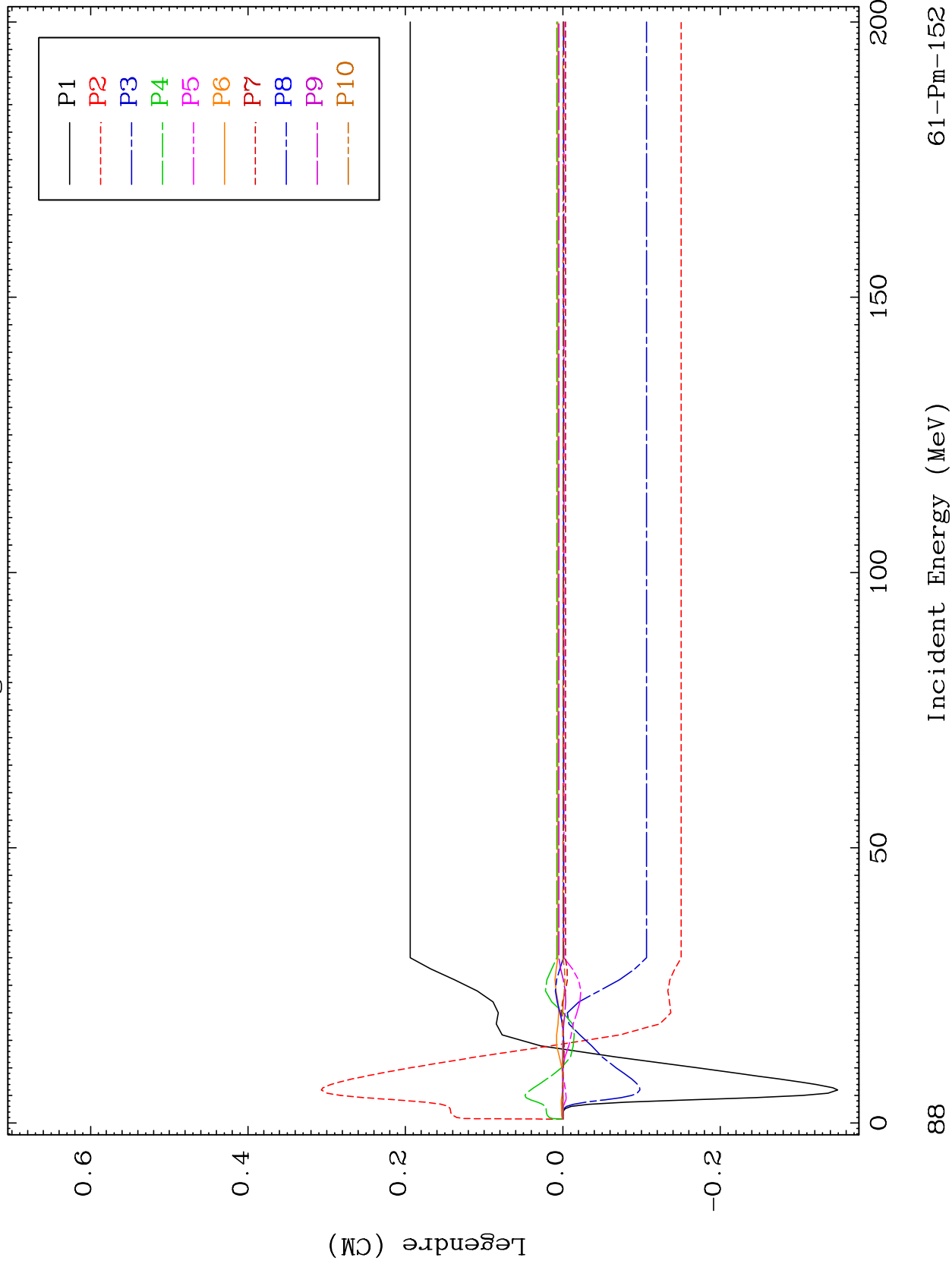
61-Pm-152



MAT 6164

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

61-Pm-152



61-Pm-152

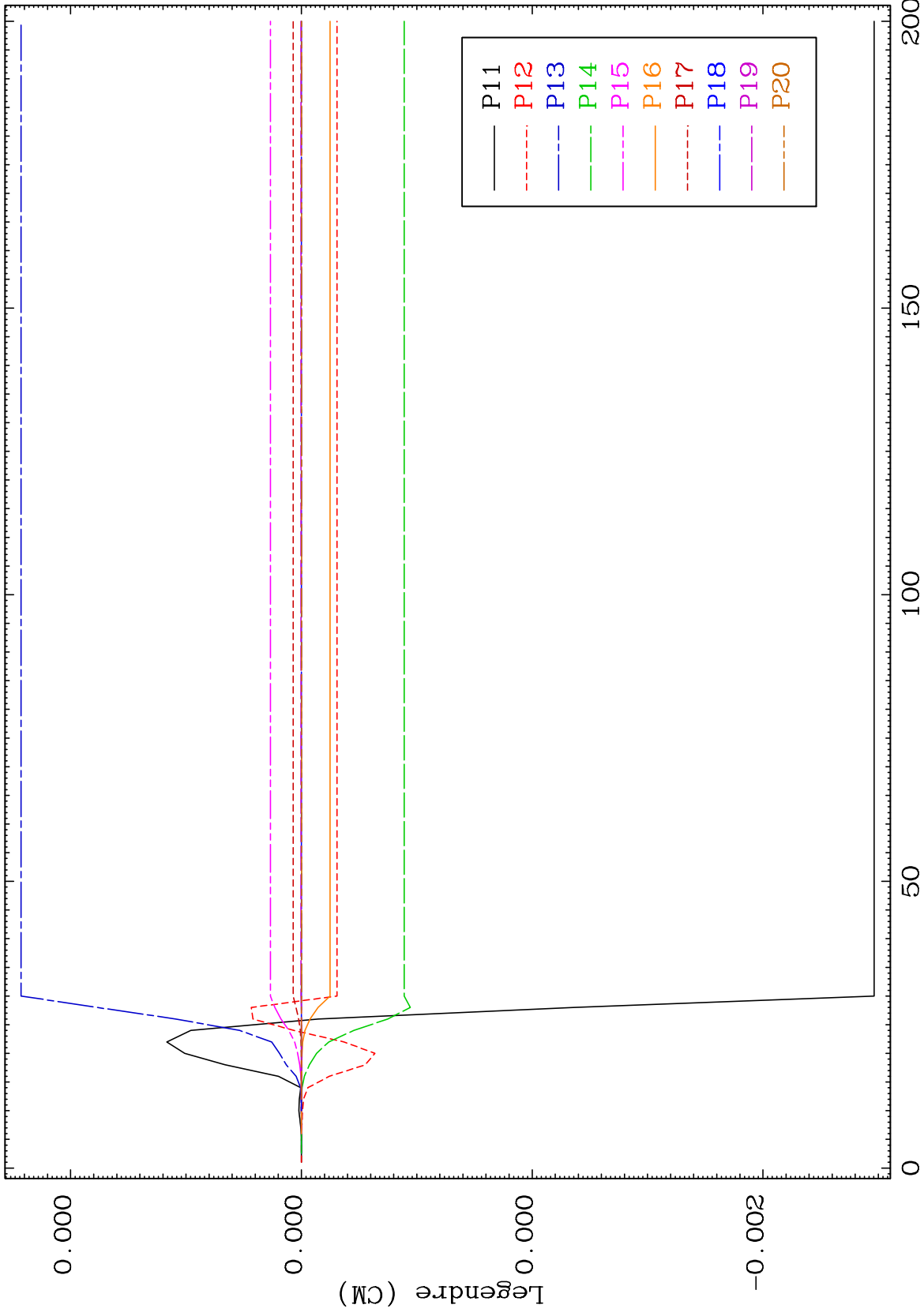
Incident Energy (MeV)

88

MAT 6164

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

61-Pm-152



89

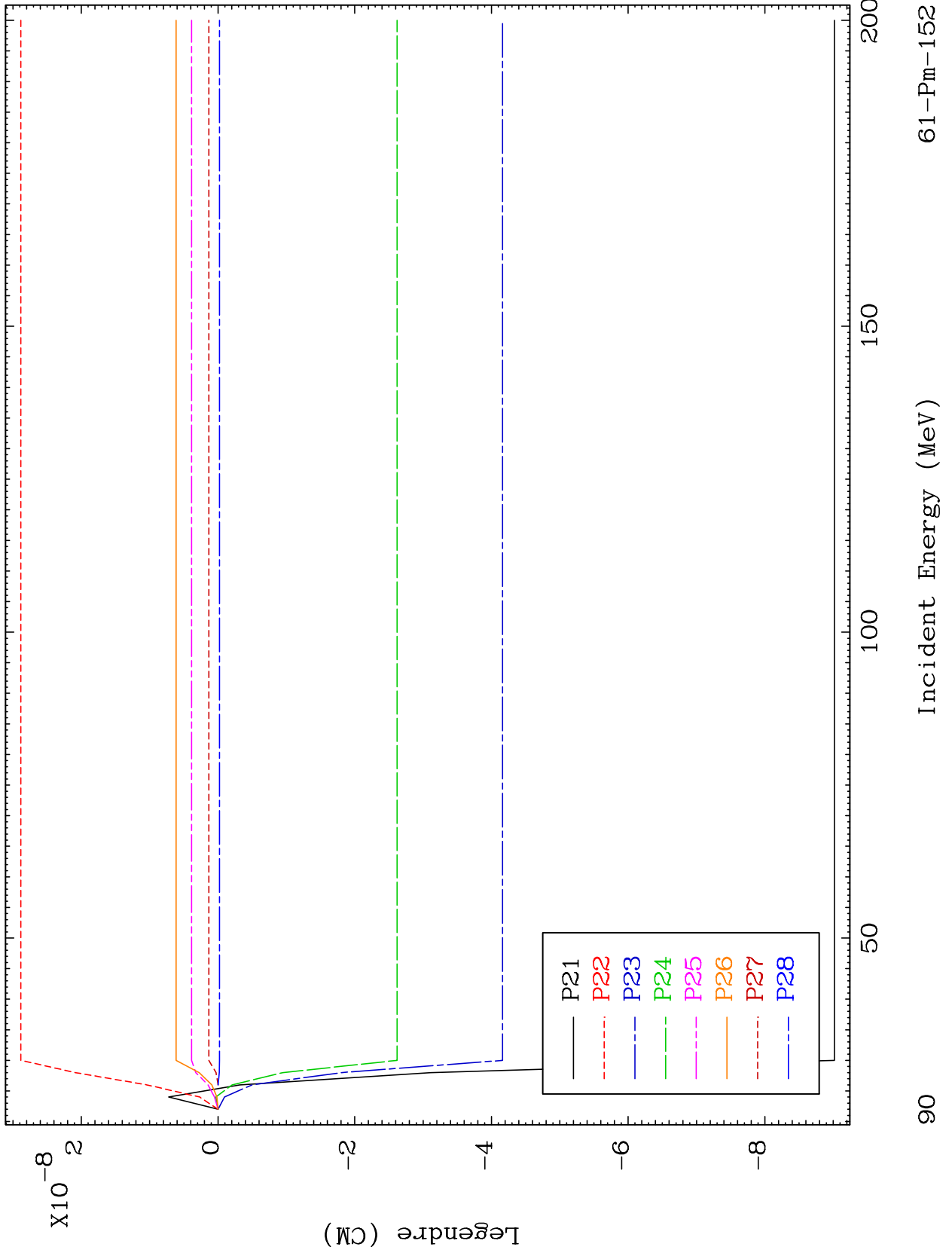
Incident Energy (MeV)

61-Pm-152

MAT 6164

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

61-Pm-152



90

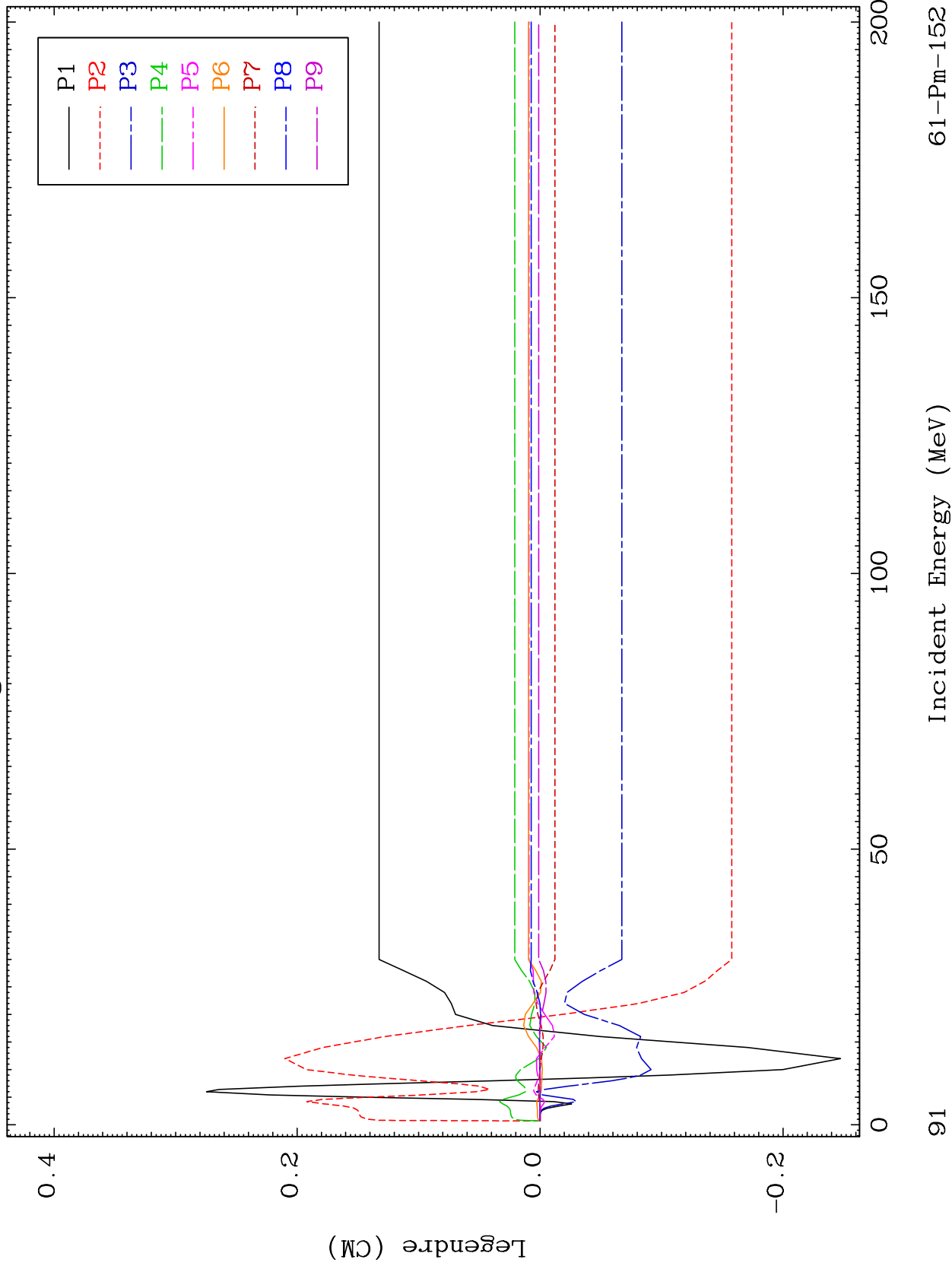
Incident Energy (MeV)

61-Pm-152

MAT 6164

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

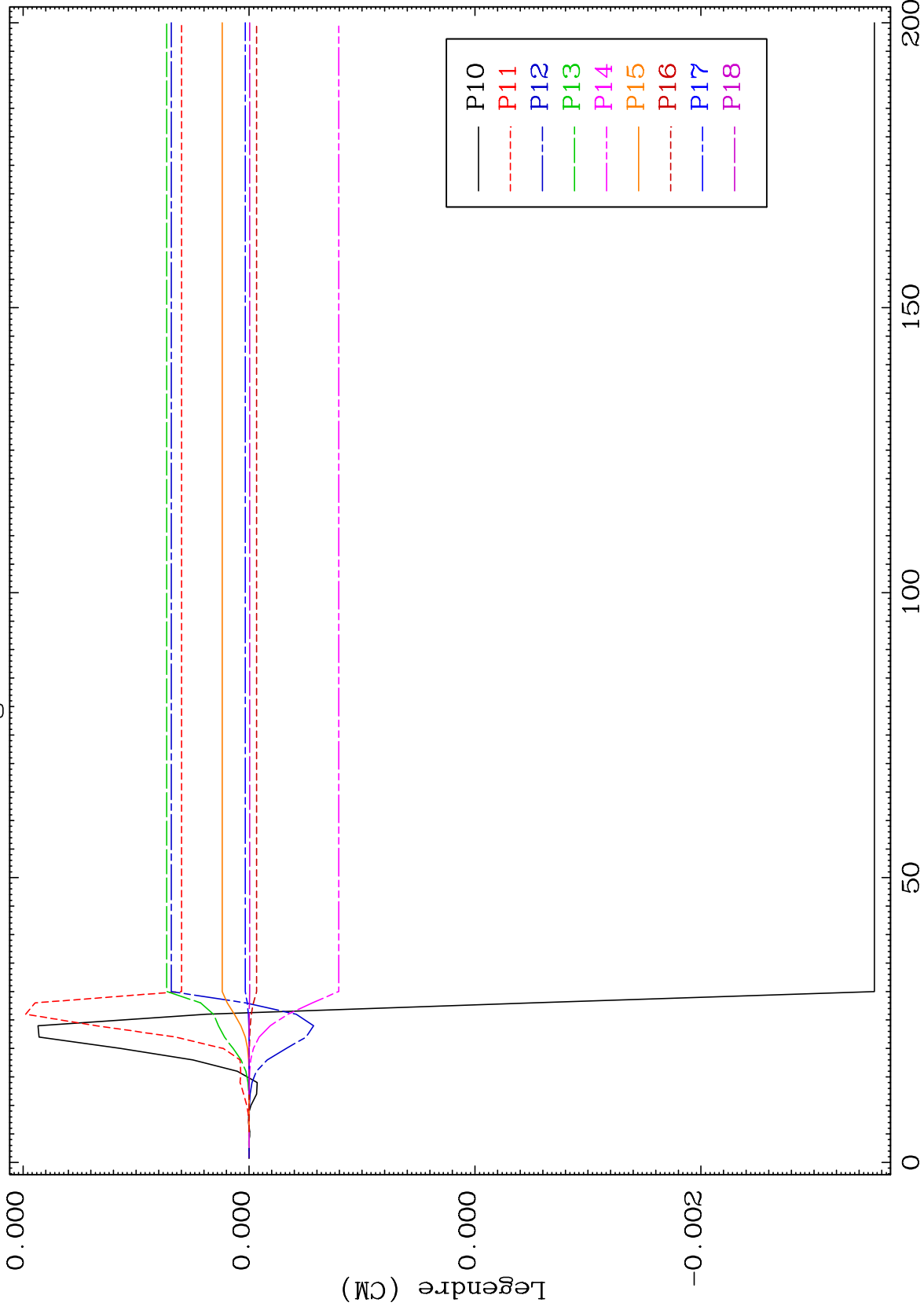
61-Pm-152



MAT 6164

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

61-Pm-152



92

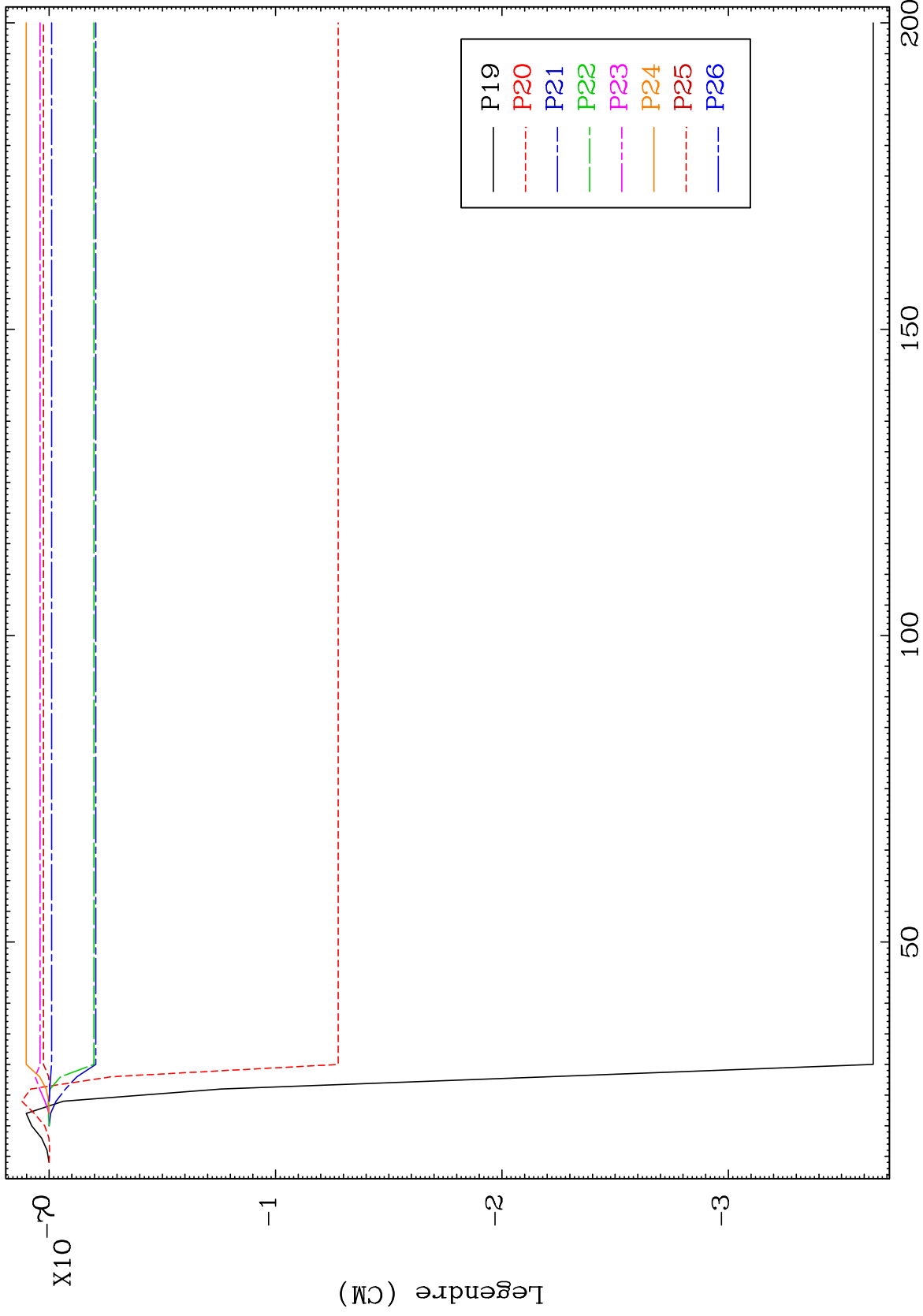
Incident Energy (MeV)

61-Pm-152

MAT 6164

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

61-Pm-152



93

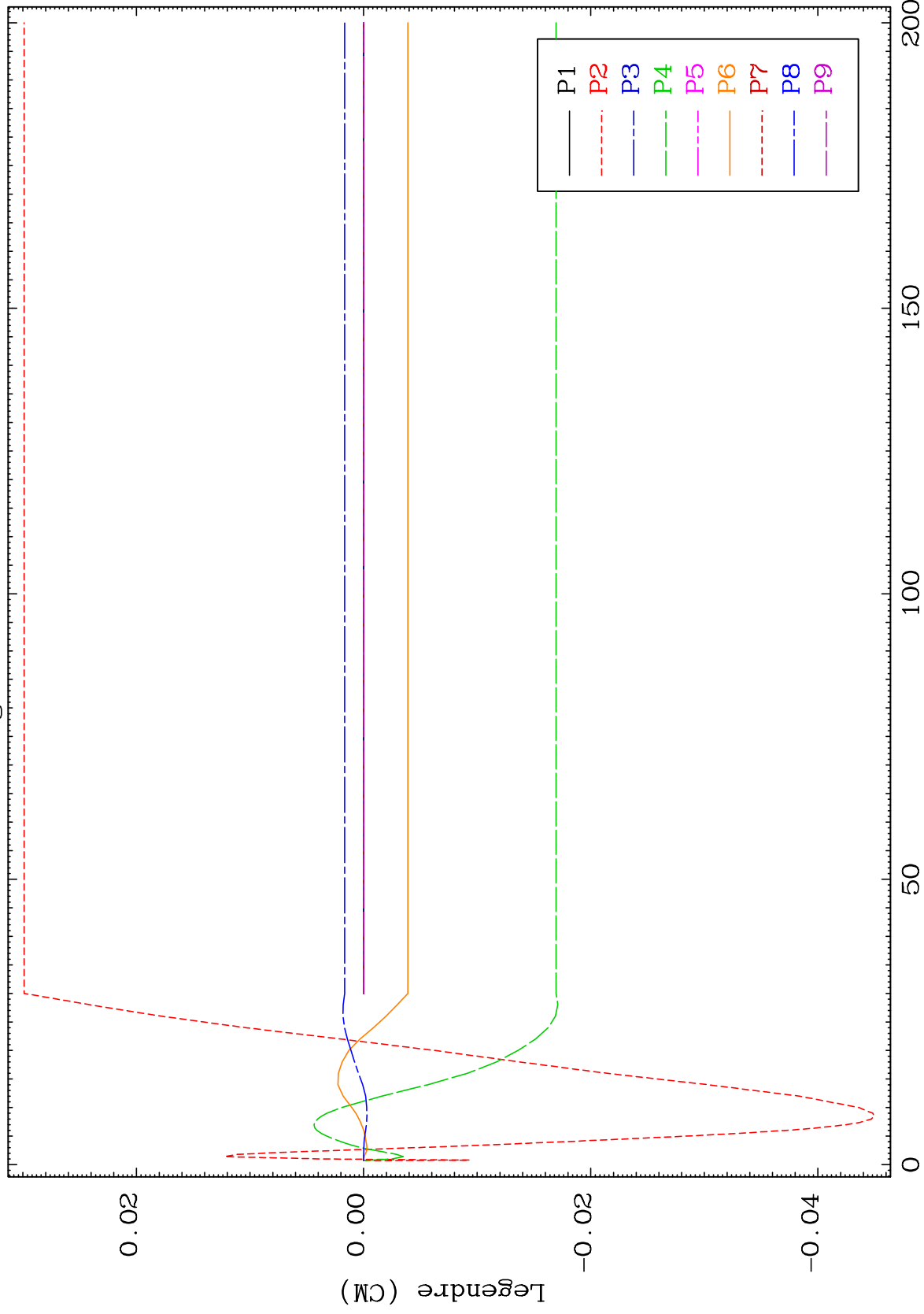
Incident Energy (MeV)

61-Pm-152

MAT 6164

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

61-Pm-152



94

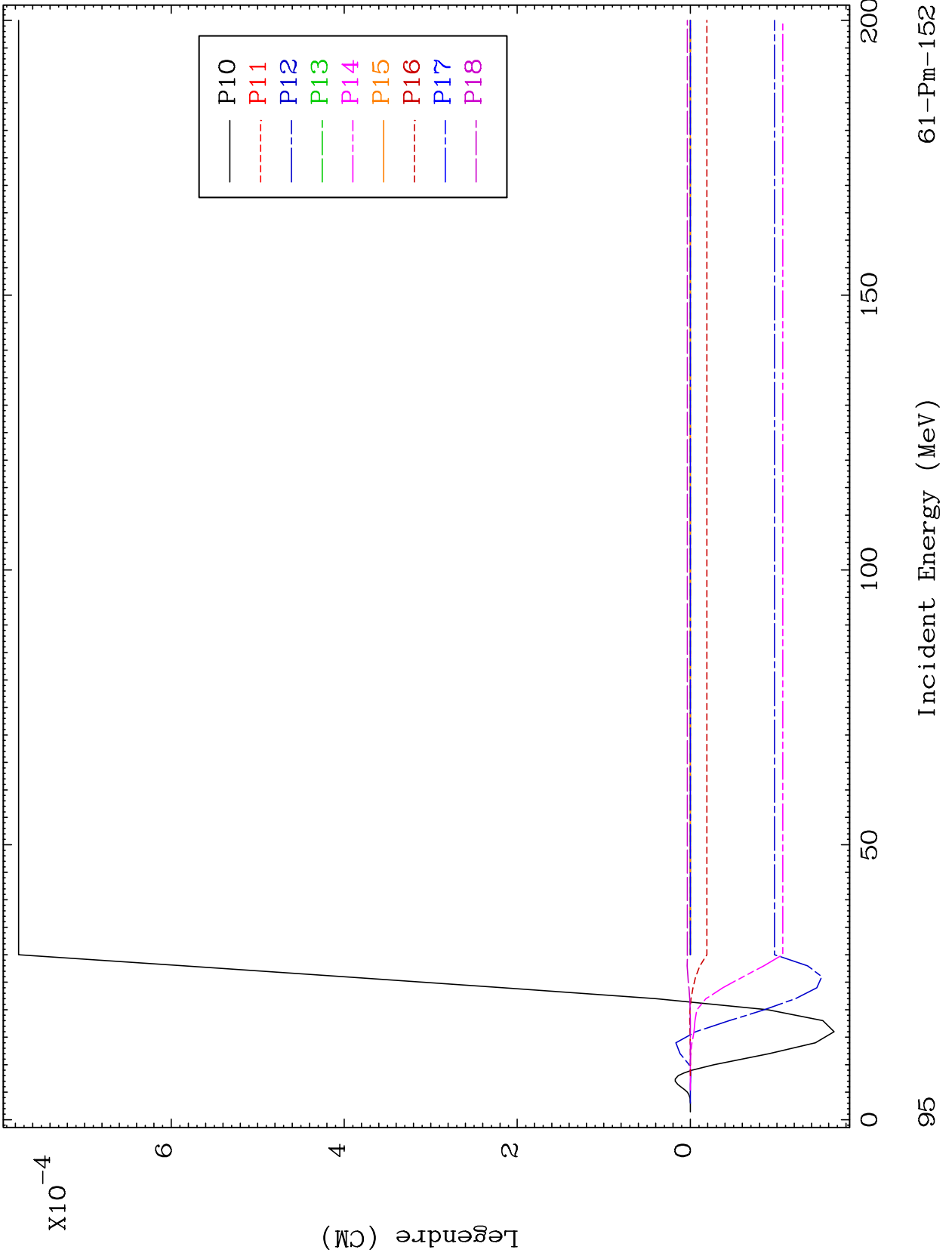
Incident Energy (MeV)

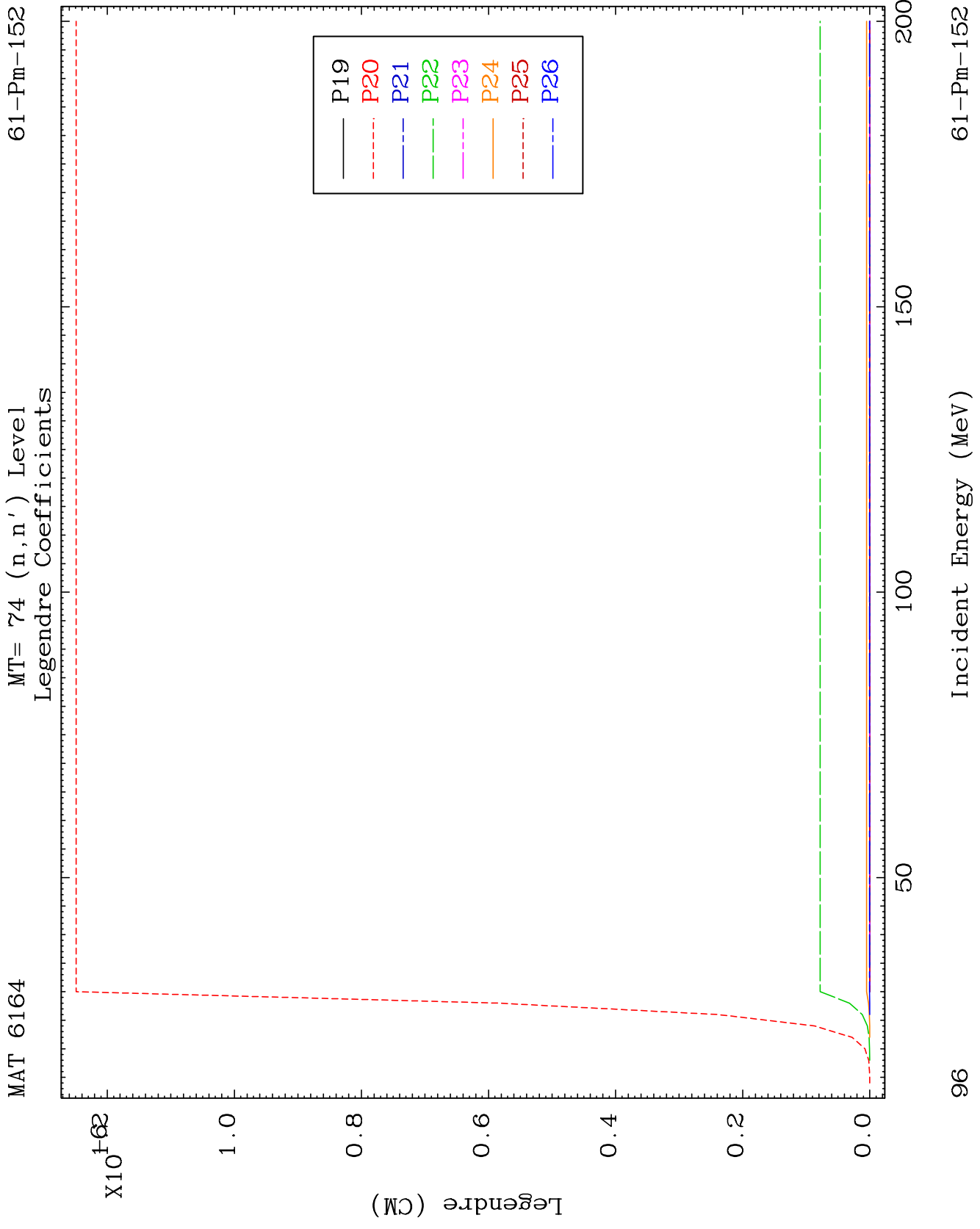
61-Pm-152

MAT 6164

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

61-Pm-152

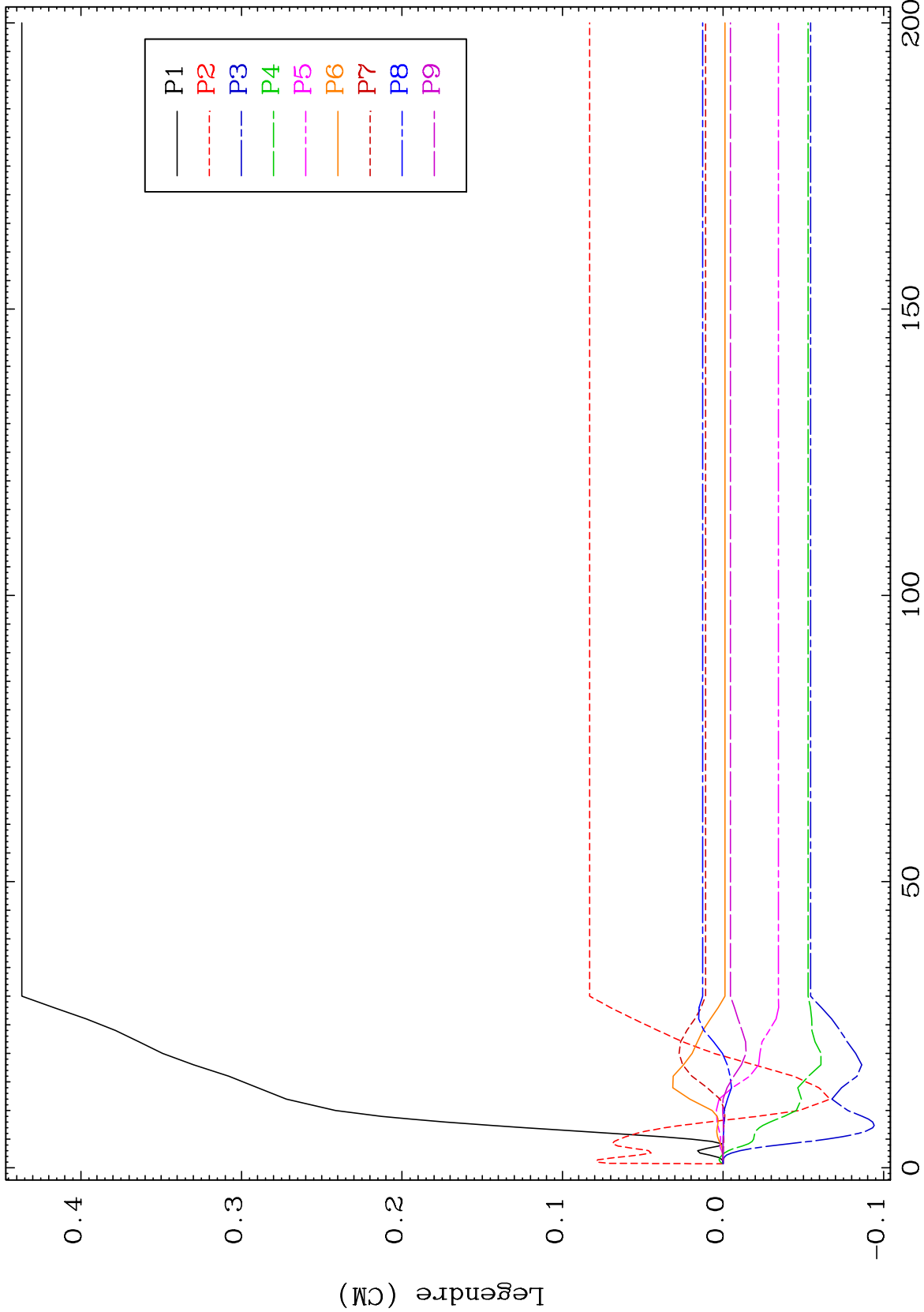




MAT 6164

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

61-Pm-152



97

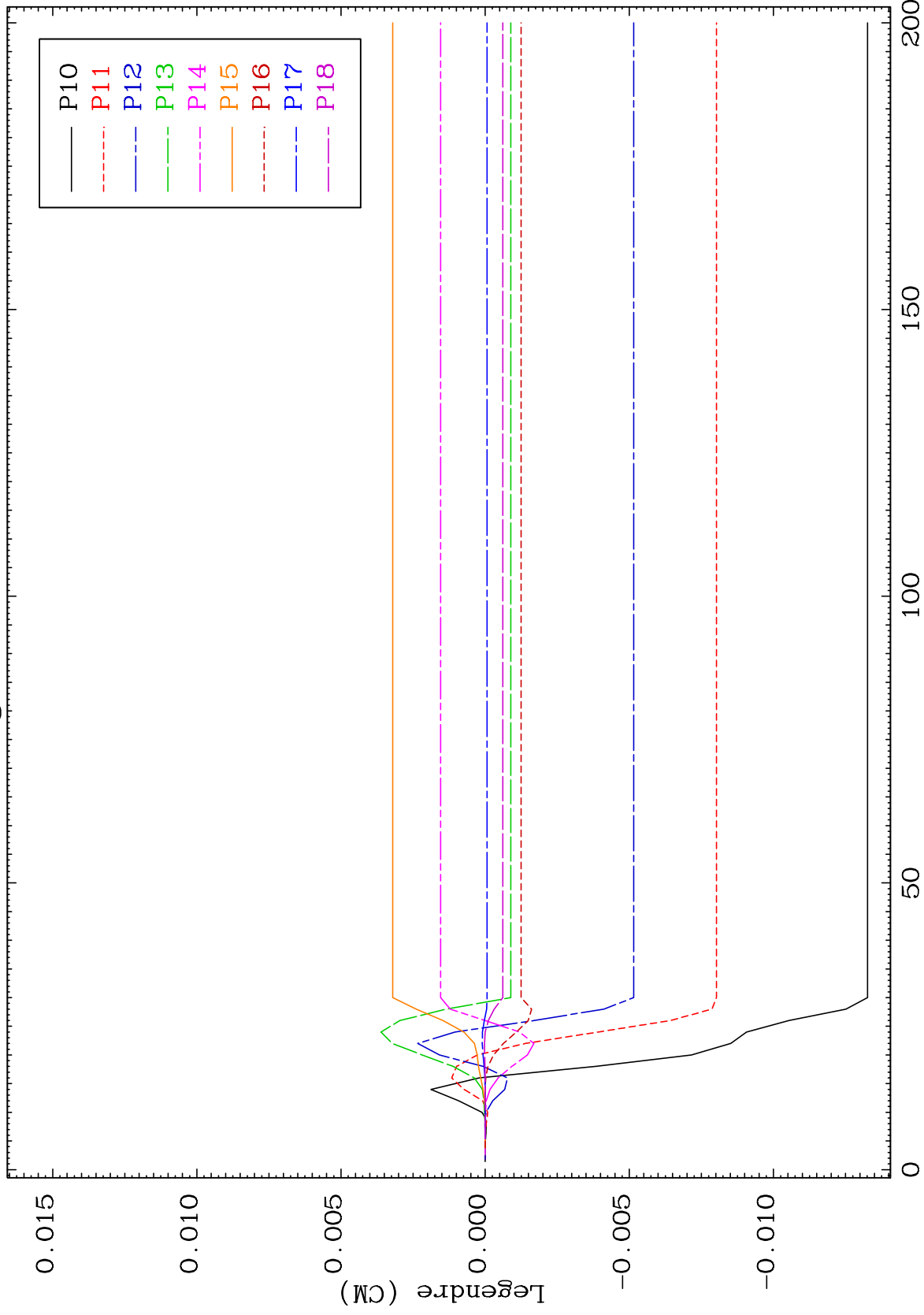
Incident Energy (MeV)

61-Pm-152

MAT 6164

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

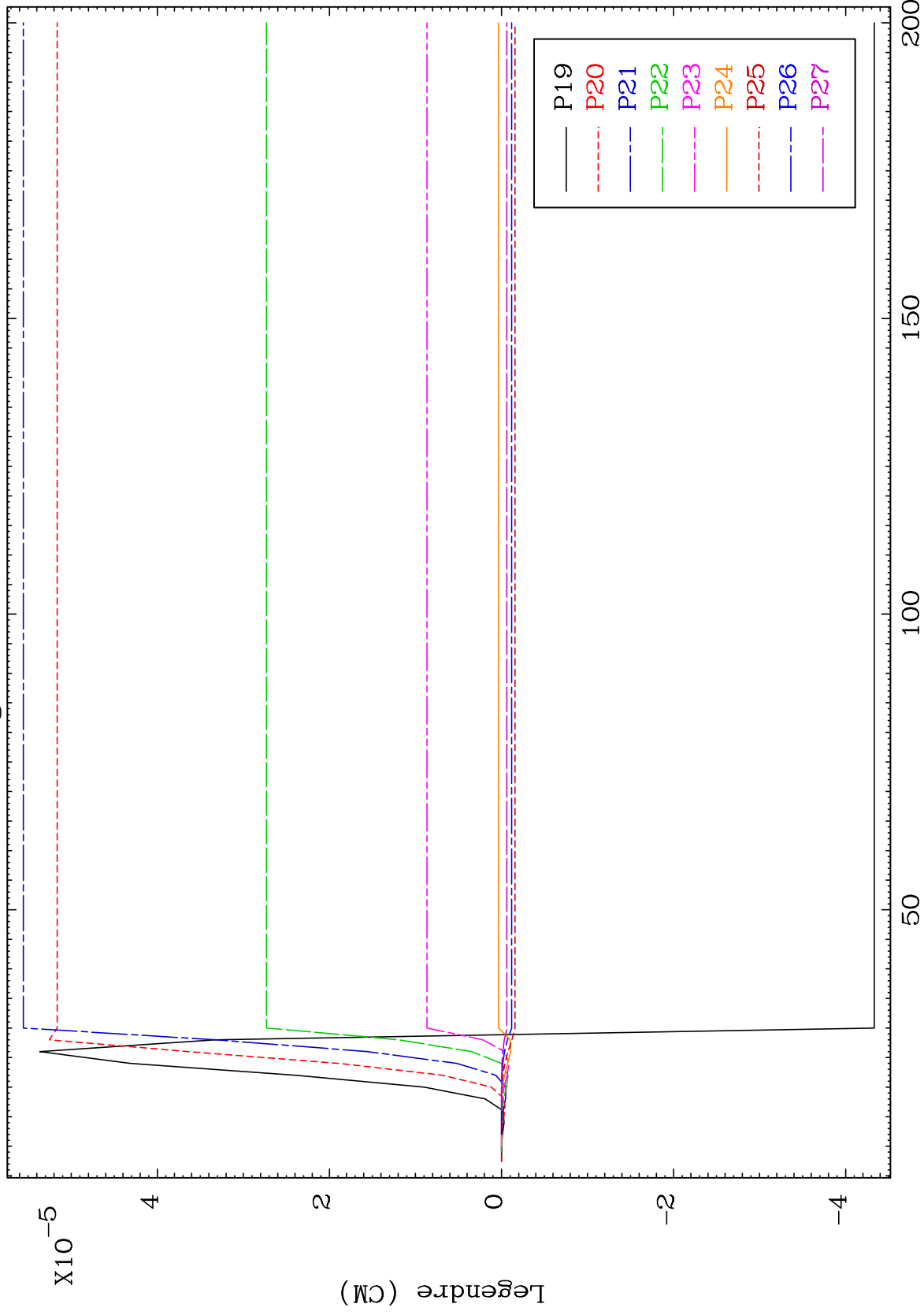
61-Pm-152

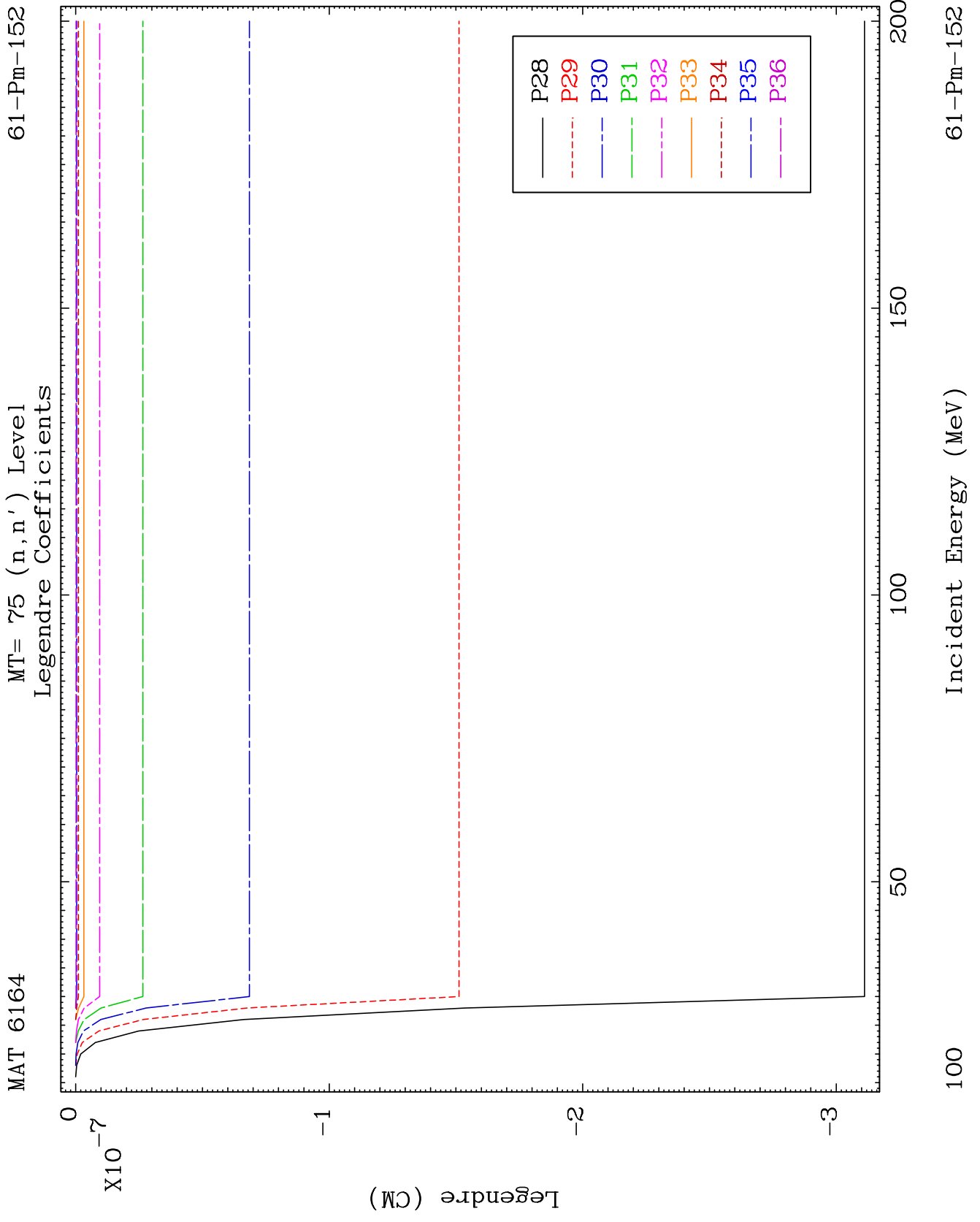


98

Incident Energy (MeV)

61-Pm-152

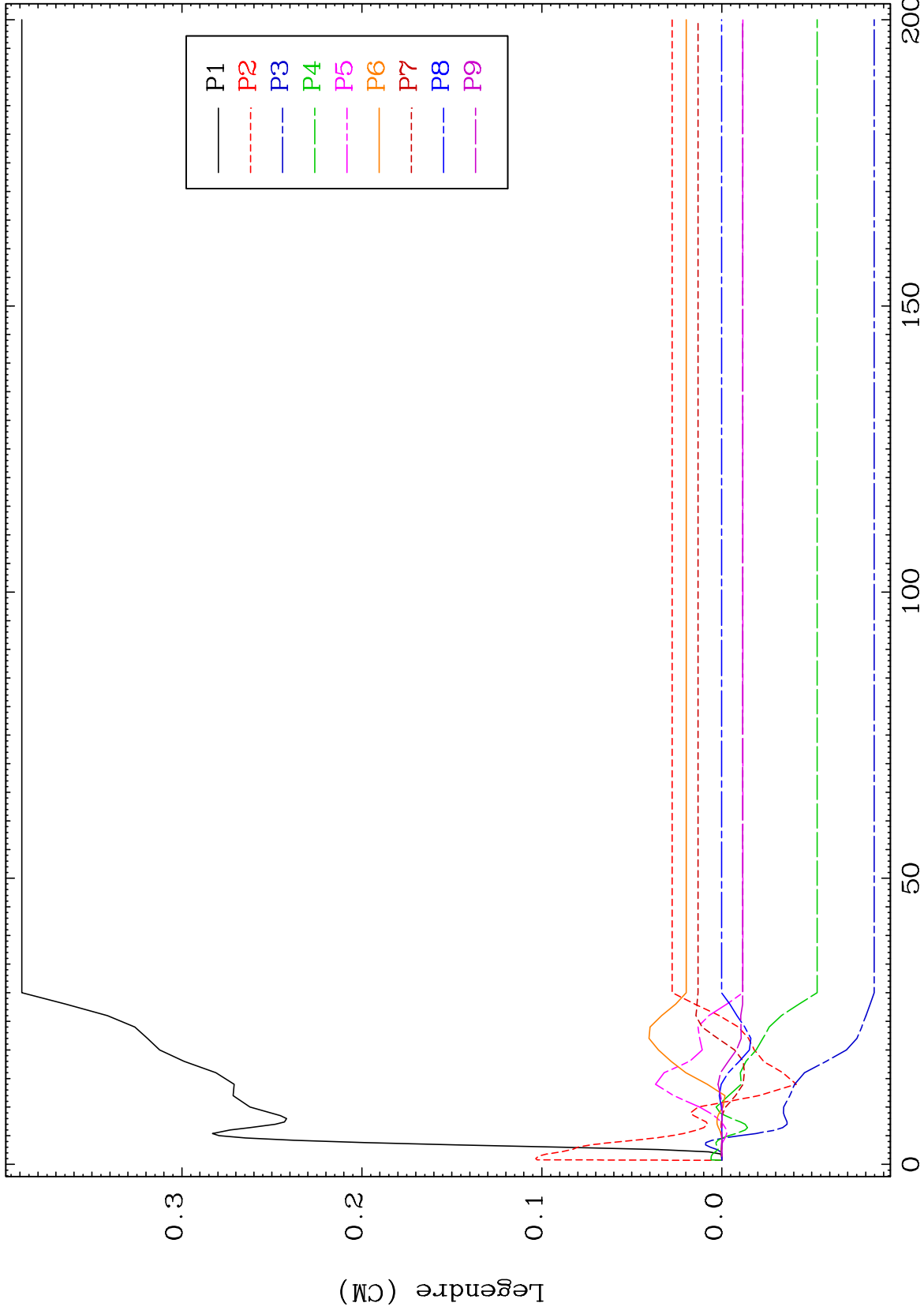




MAT 6164

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

61-Pm-152



101

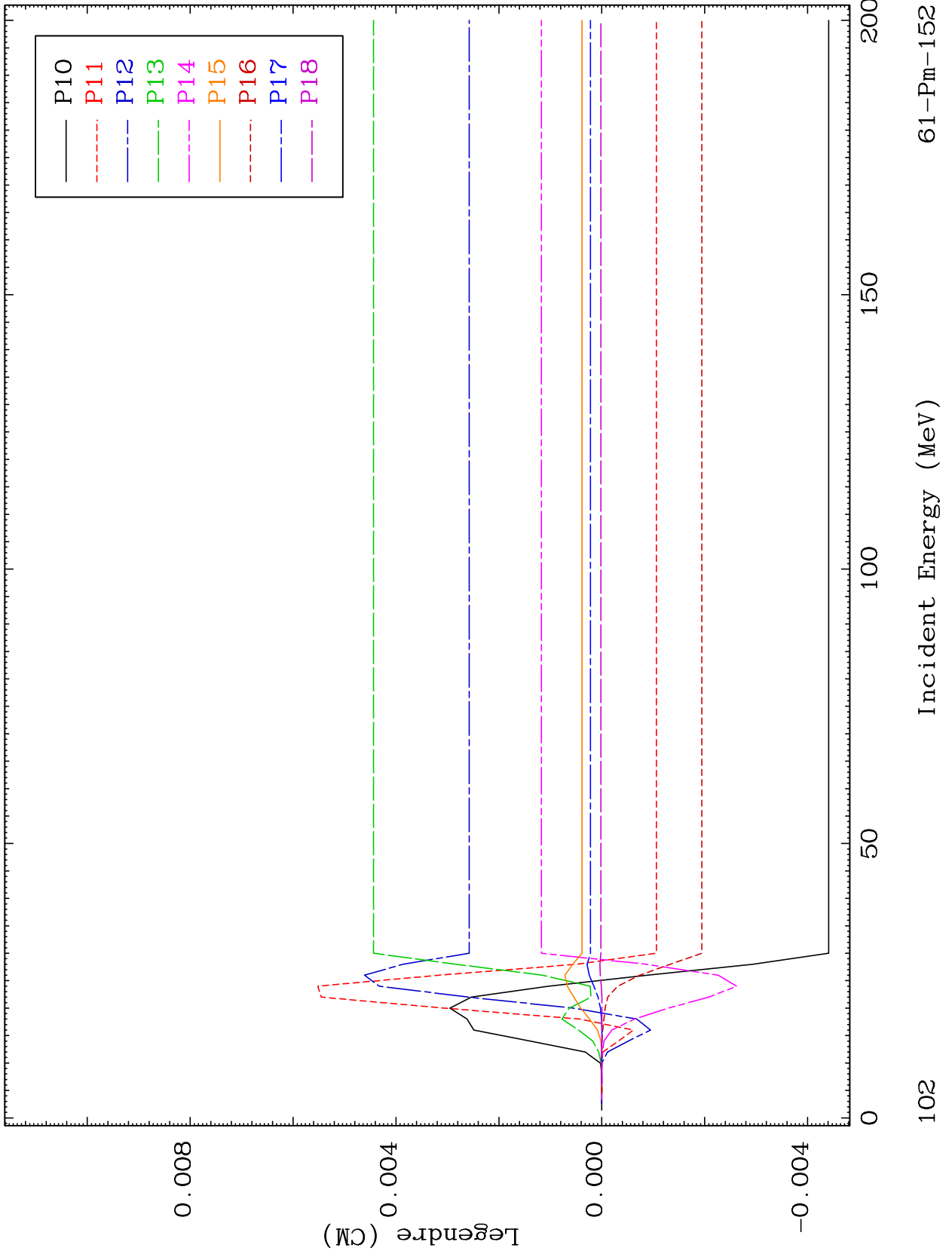
Incident Energy (MeV)

61-Pm-152

MAT 6164

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

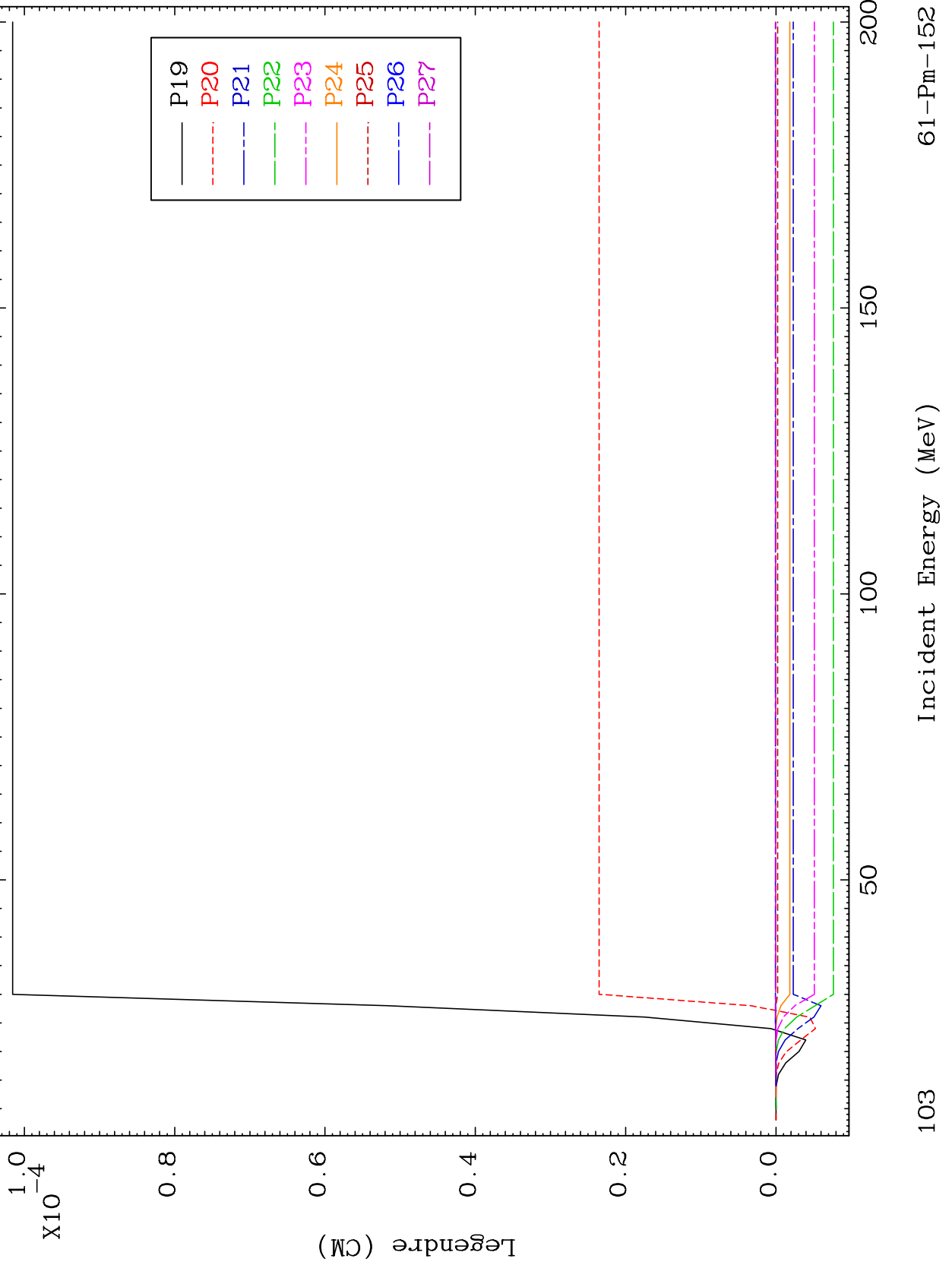
61-Pm-152



MAT 6164

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

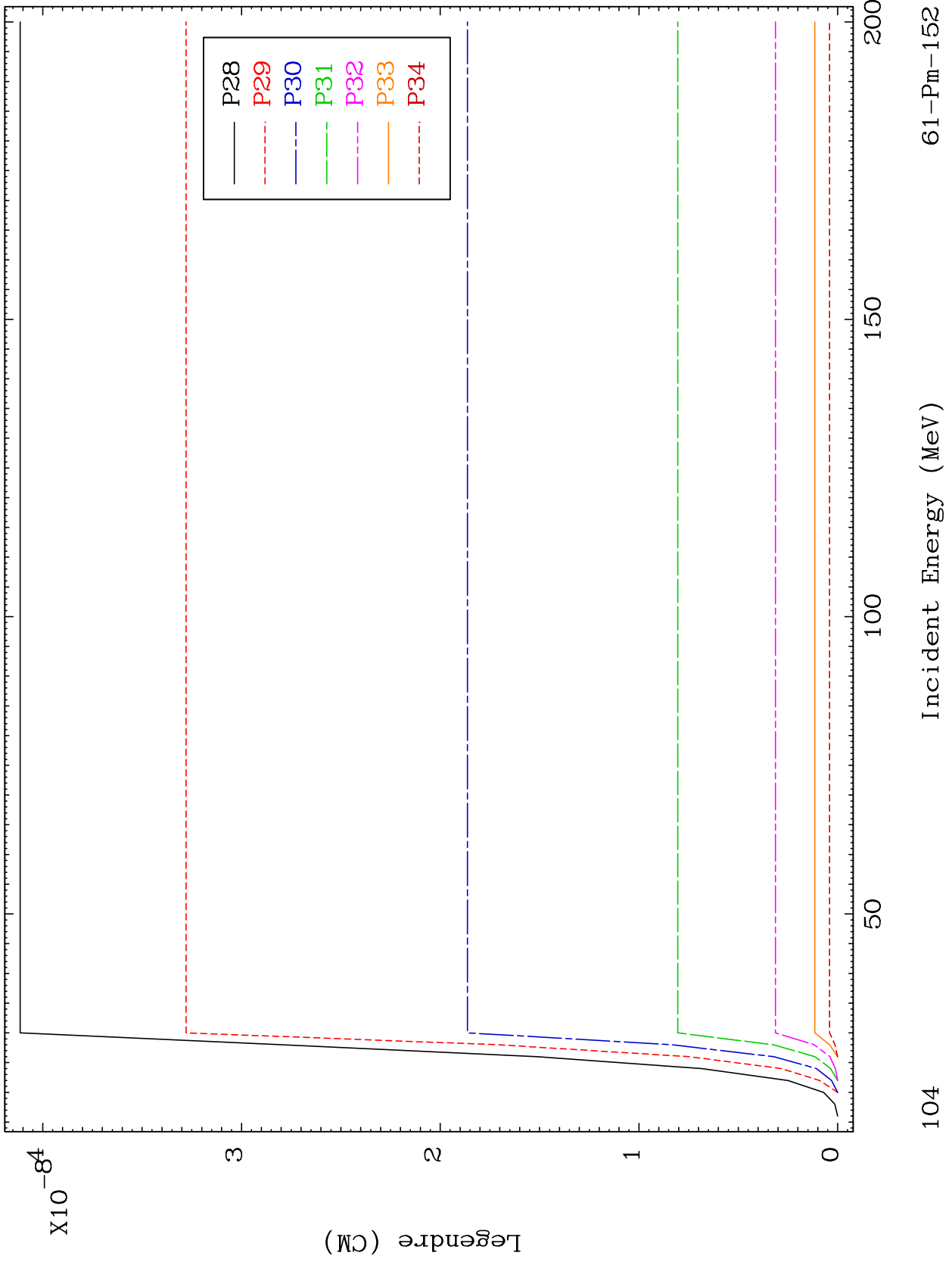
61-Pm-152



MAT 6164

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

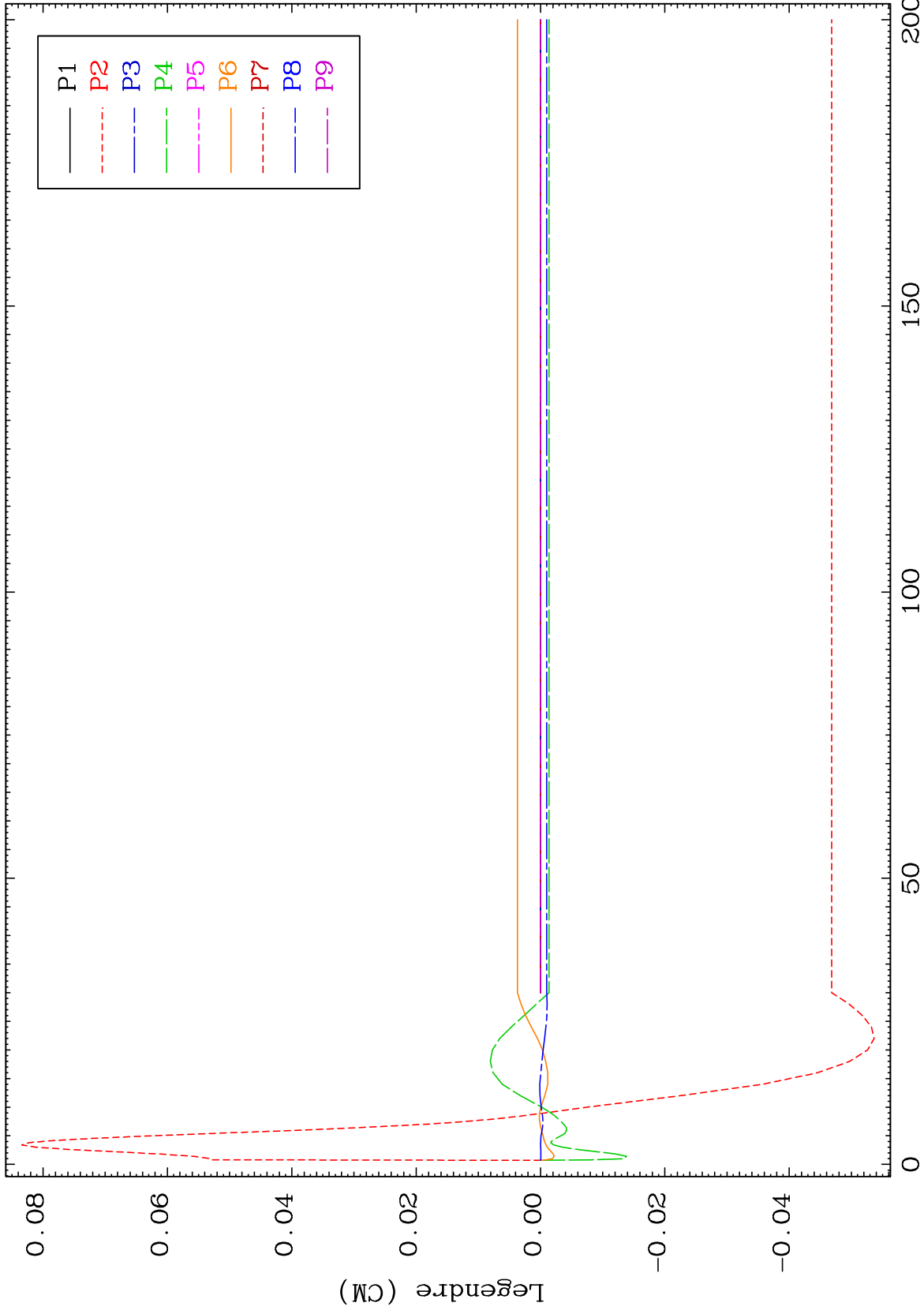
61-Pm-152



MAT 6164

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

61-Pm-152



61-Pm-152

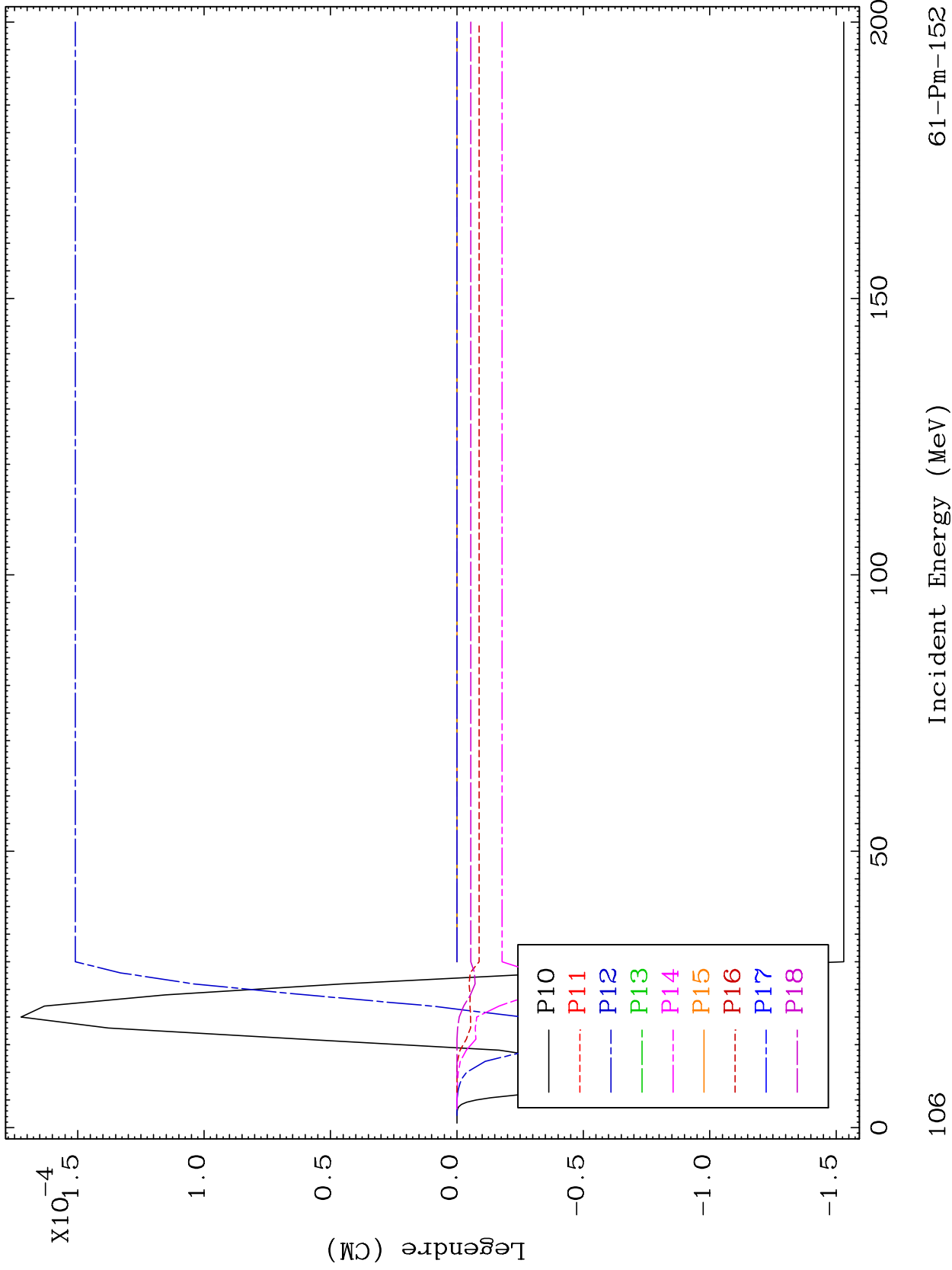
Incident Energy (MeV)

105

MAT 6164

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

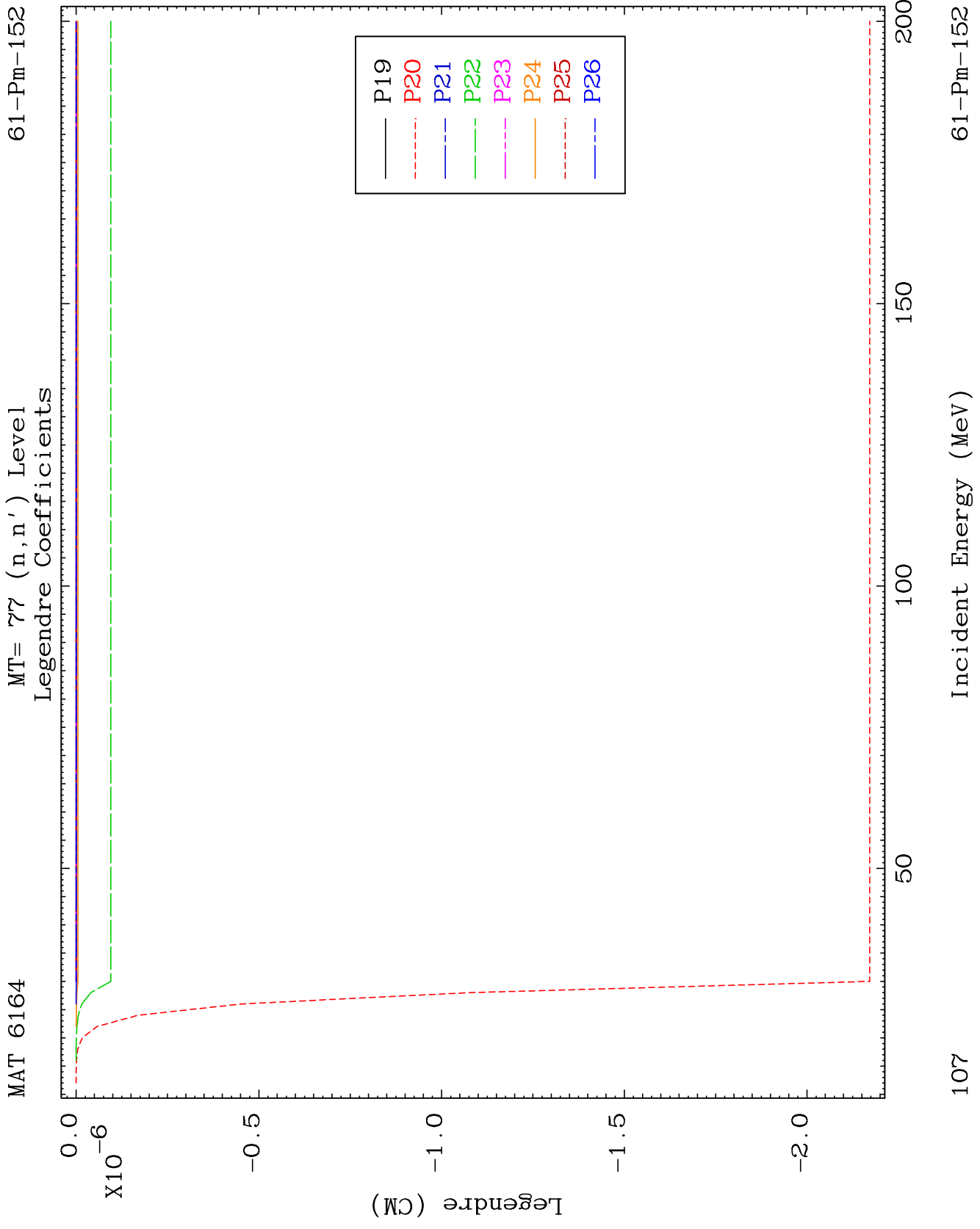
61-Pm-152



106

Incident Energy (MeV)

61-Pm-152

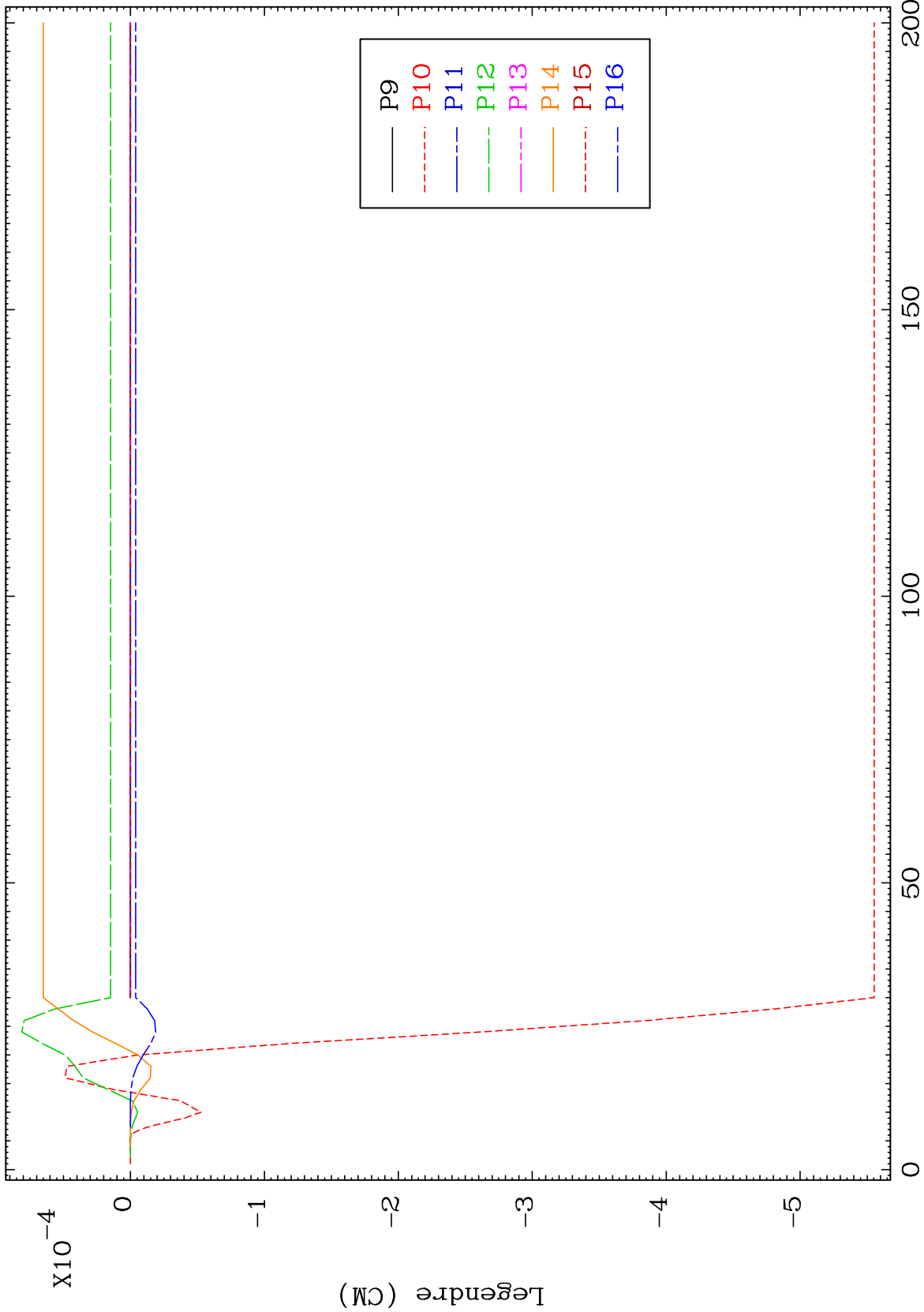


MAT 6164

MT= 78 (n,n') Level

61-Pm-152

Legendre Coefficients



109

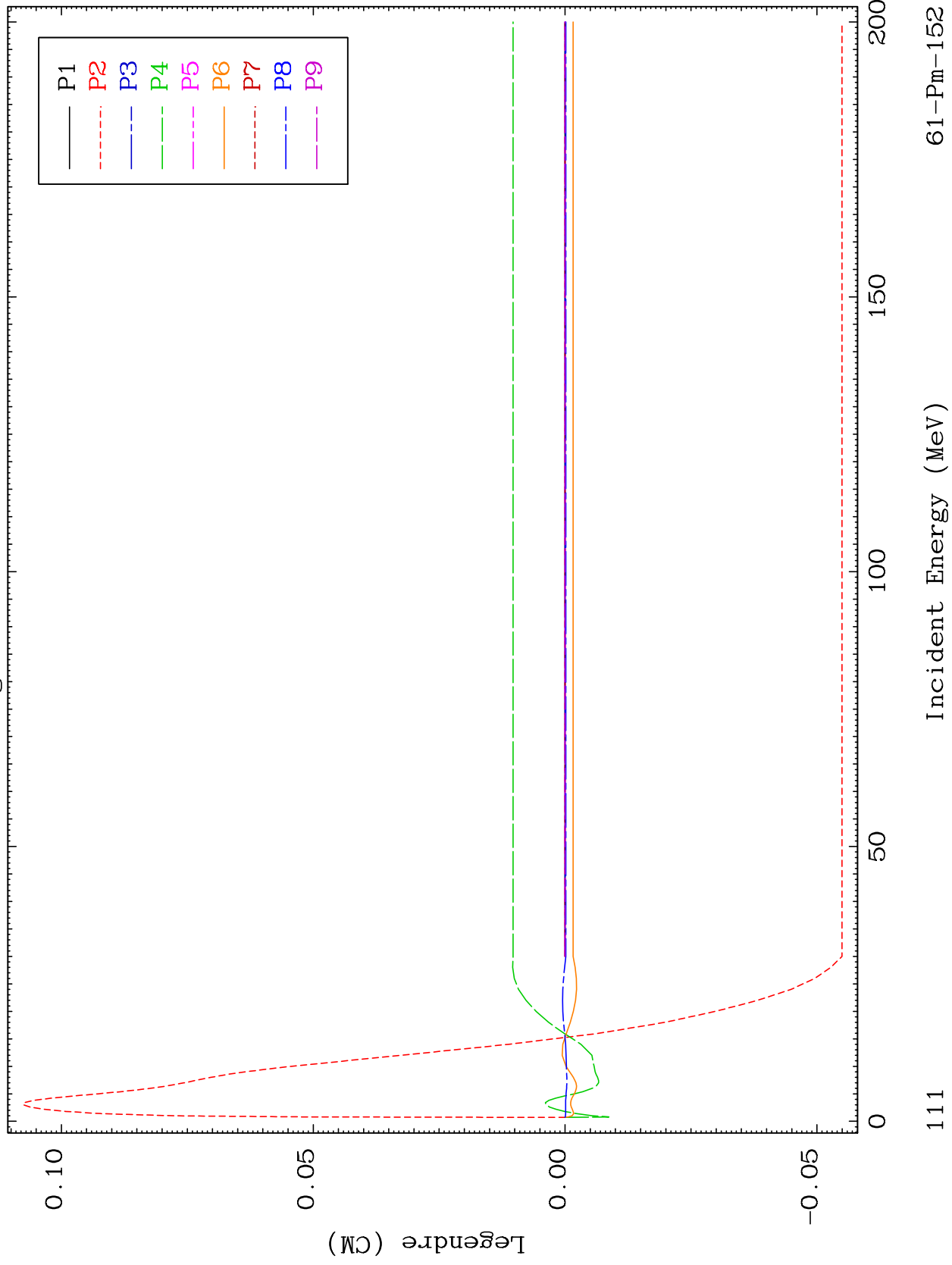
Incident Energy (MeV)

61-Pm-152

MAT 6164

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

61-Pm-152



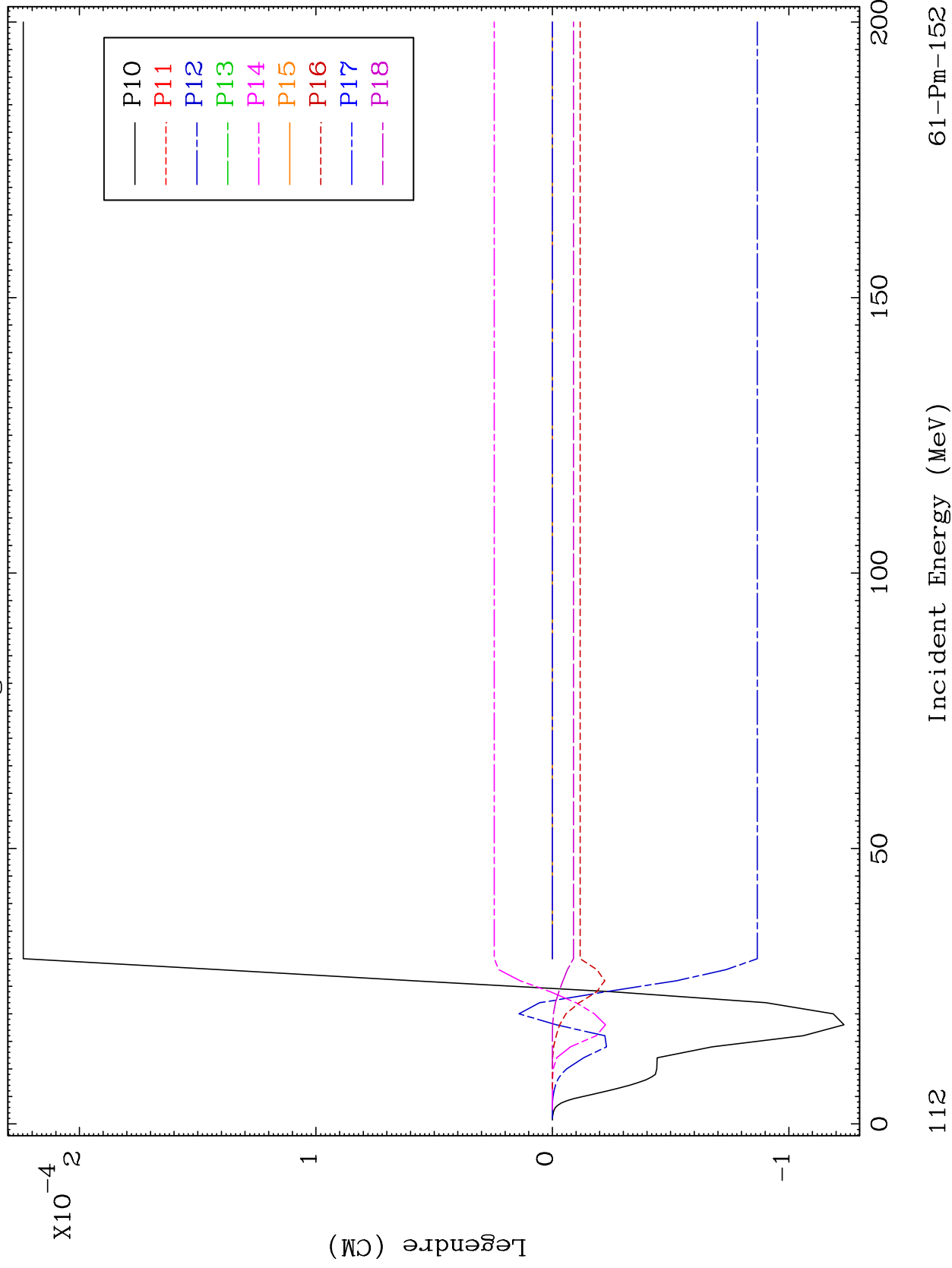
111

61-Pm-152

MAT 6164

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

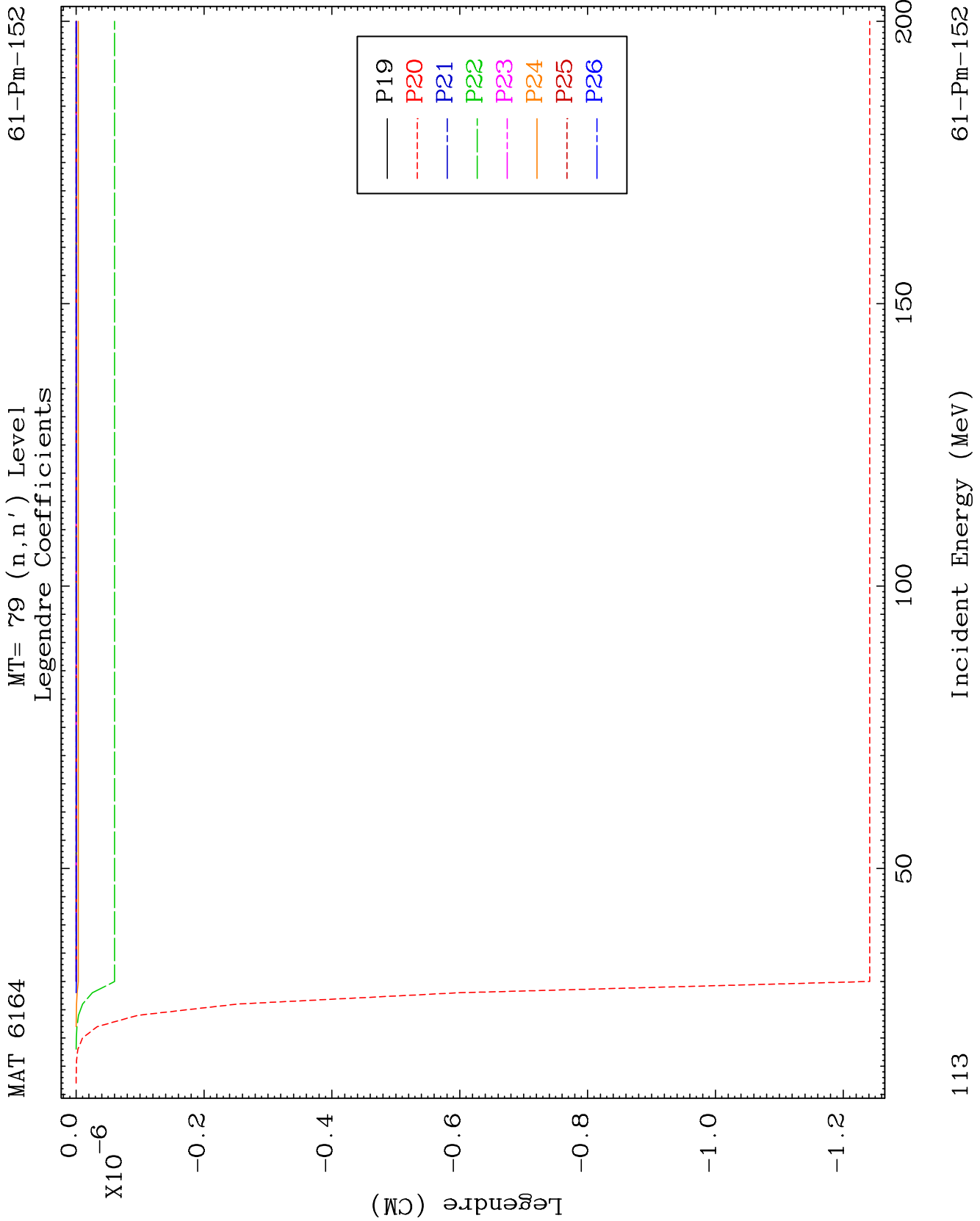
61-Pm-152



61-Pm-152

Incident Energy (MeV)

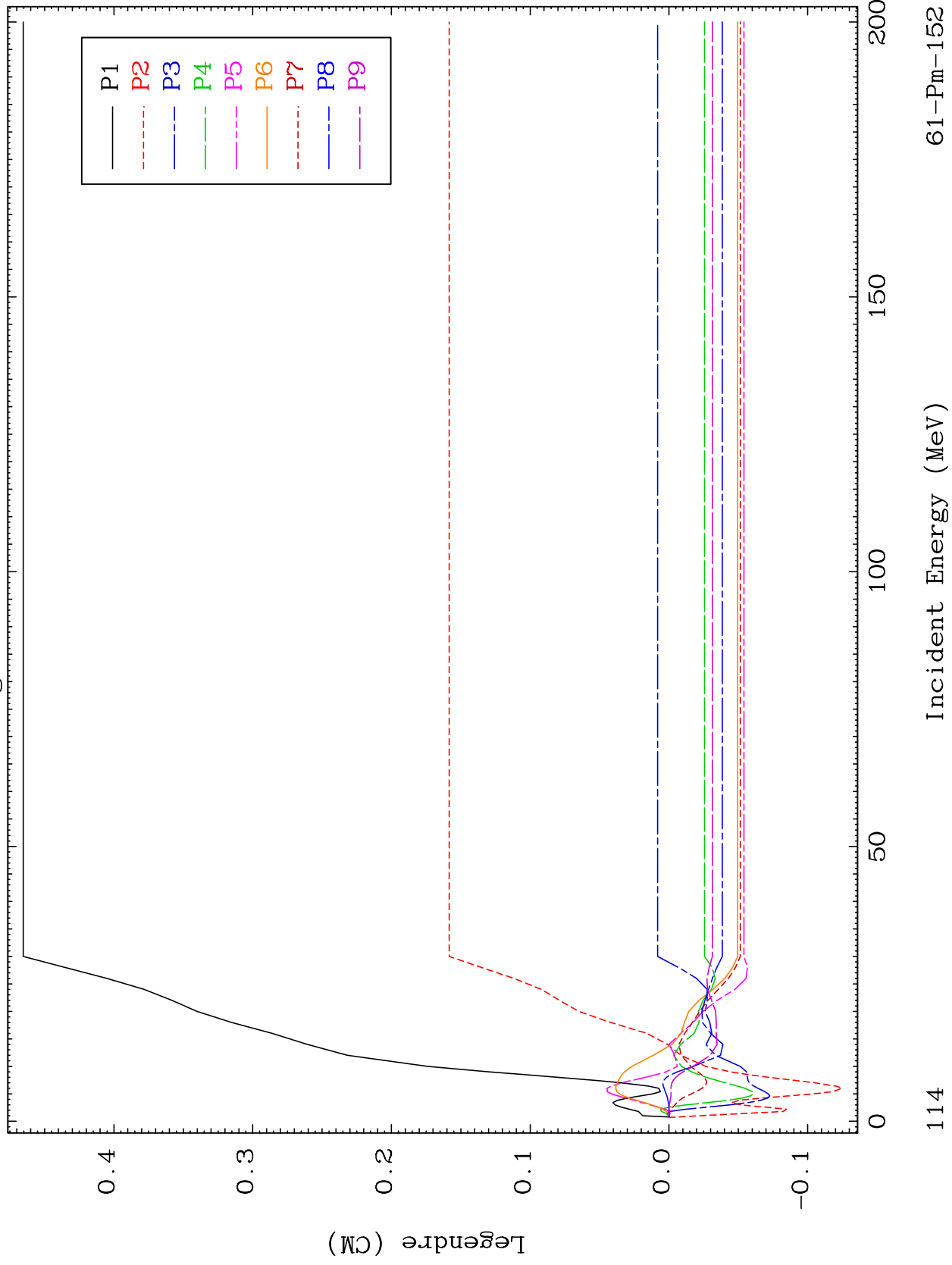
112



MAT 6164

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

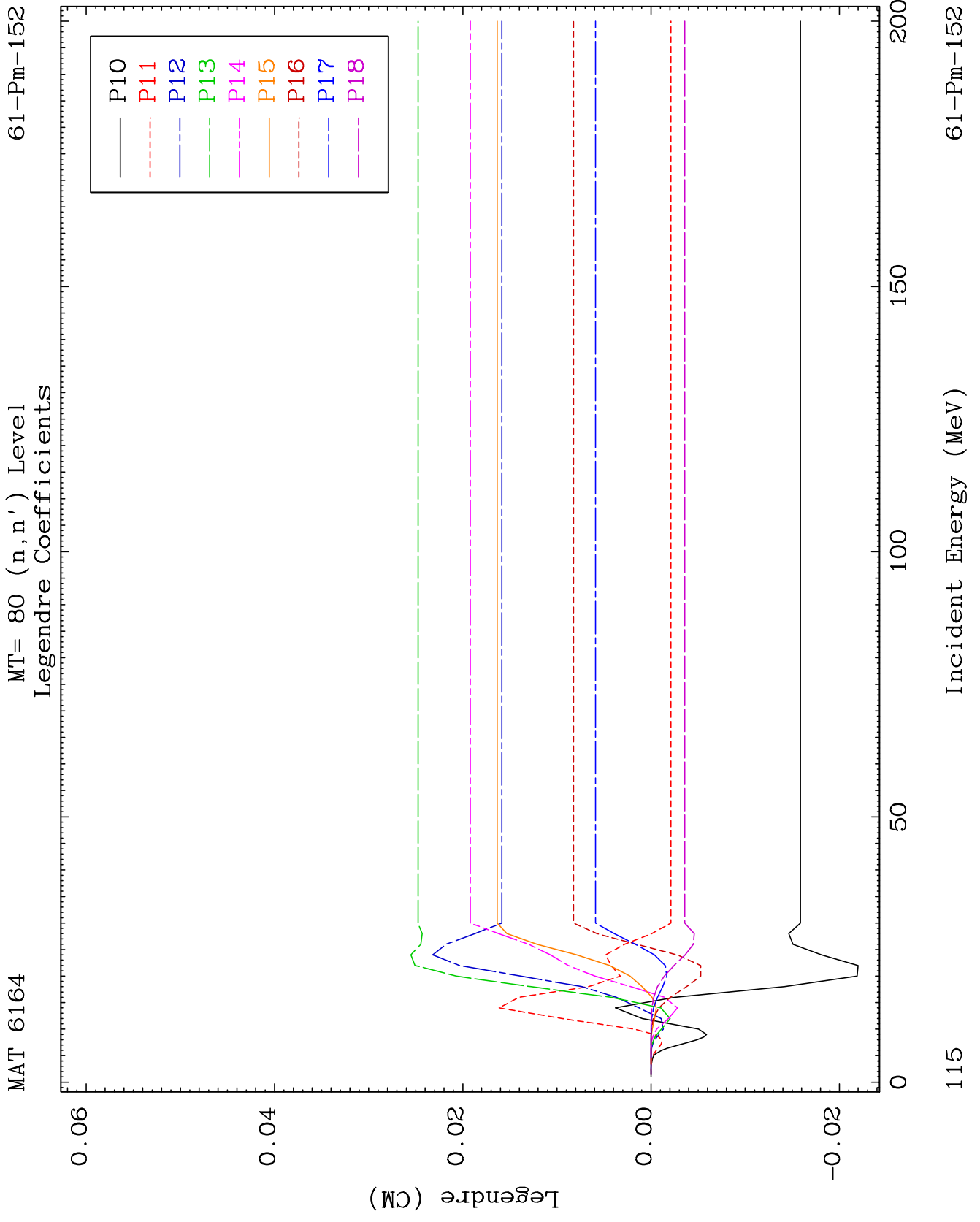
61-Pm-152



61-Pm-152

Incident Energy (MeV)

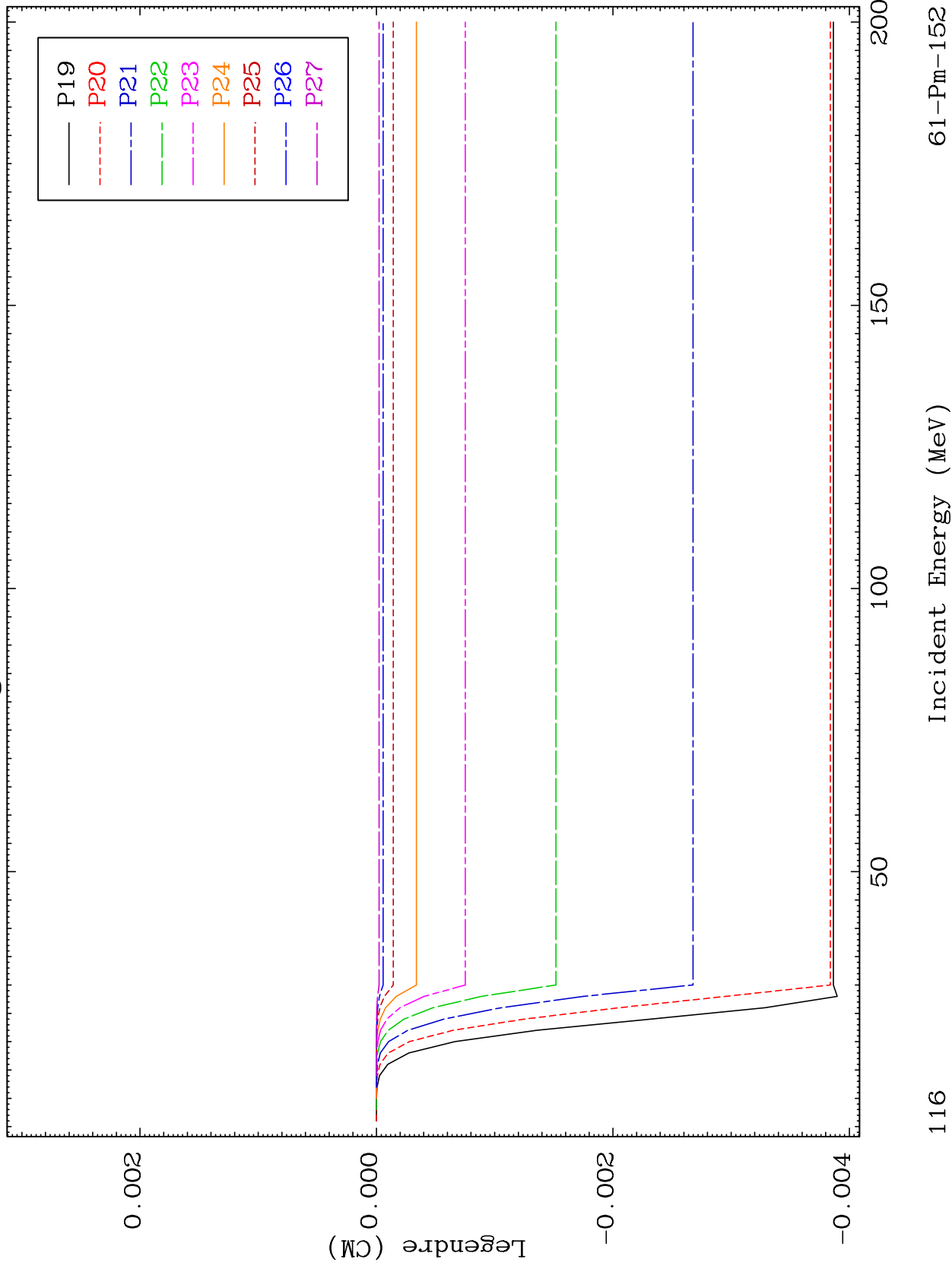
114



MAT 6164

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

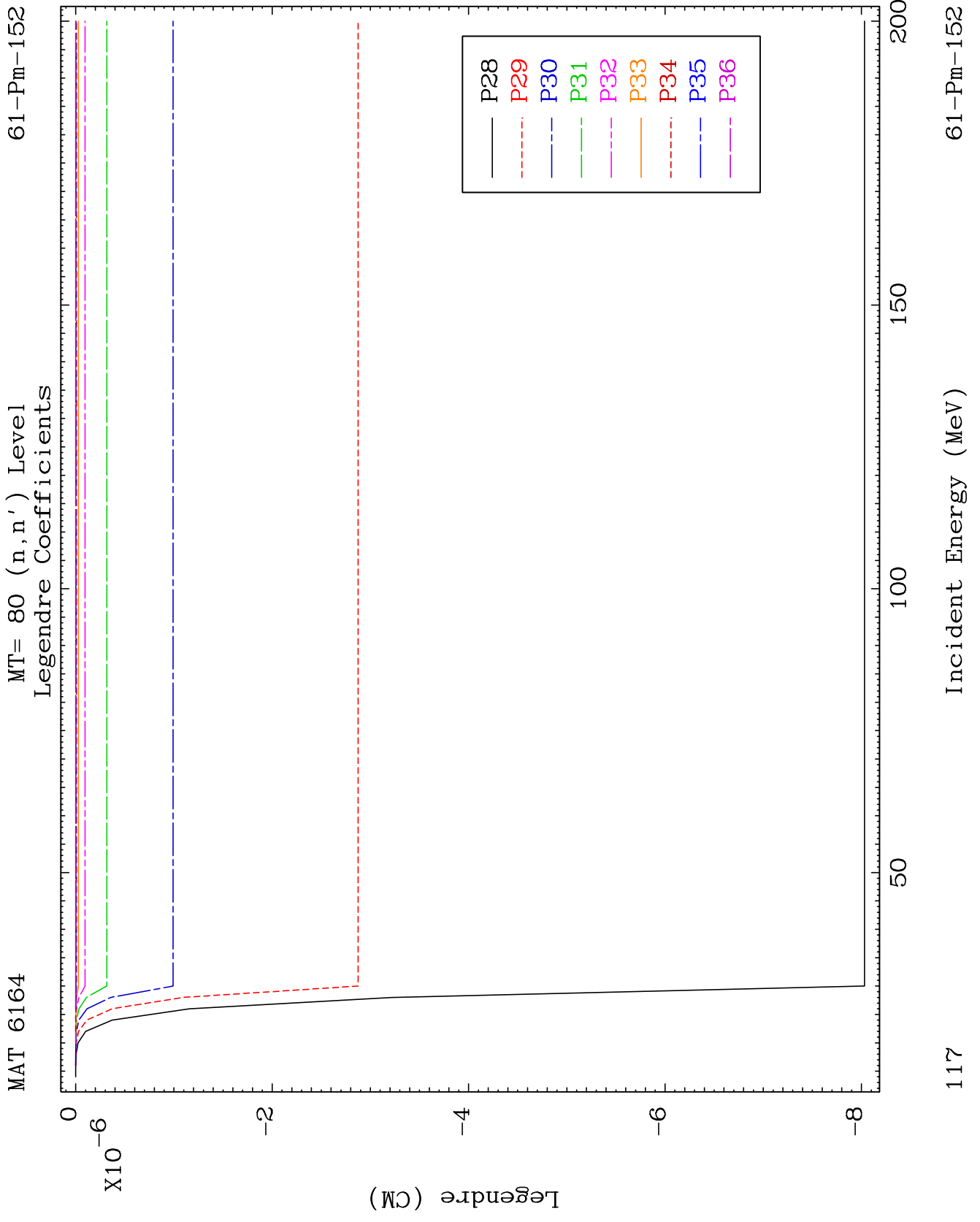
61-Pm-152



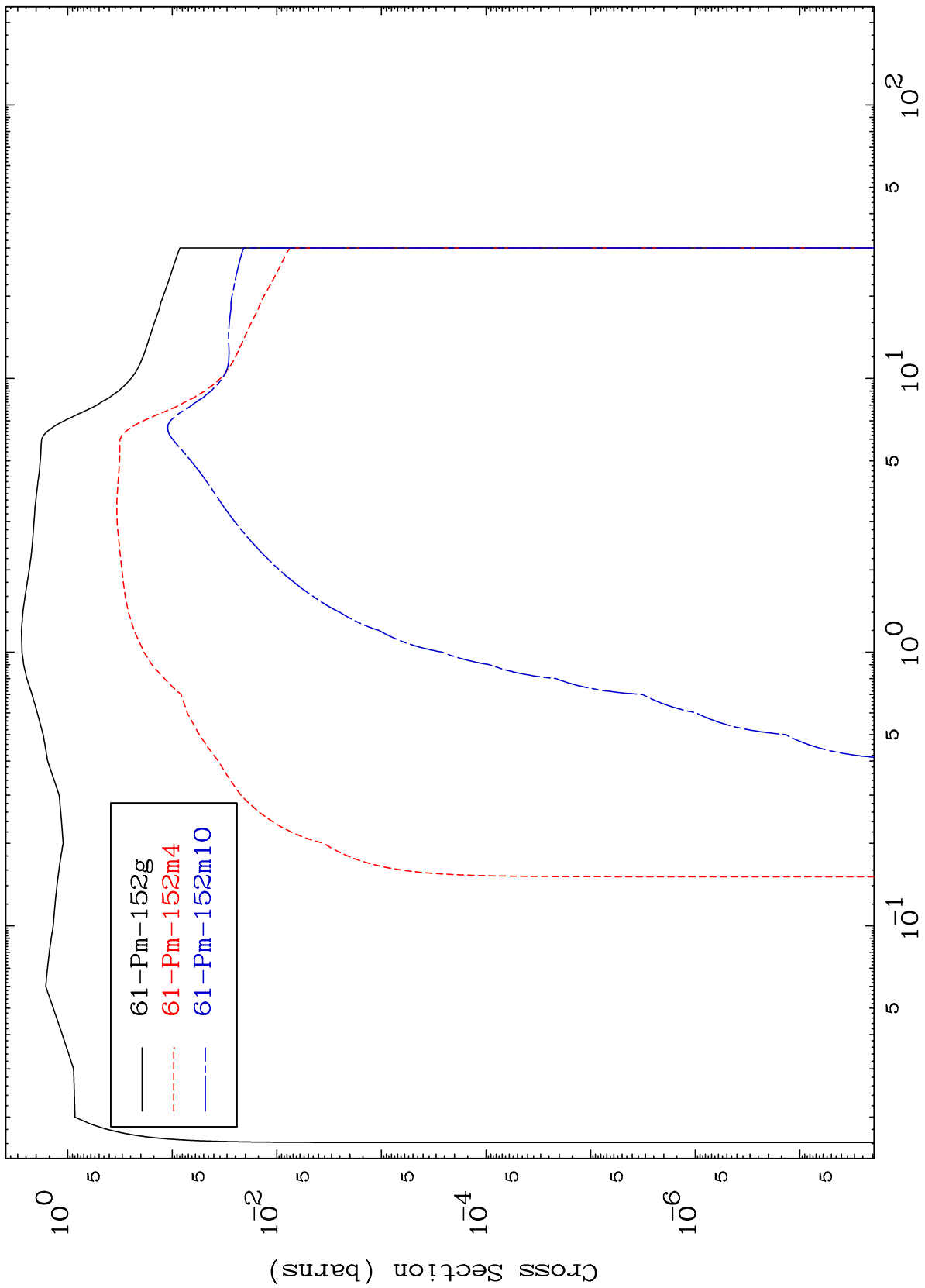
61-Pm-152

Incident Energy (MeV)

116



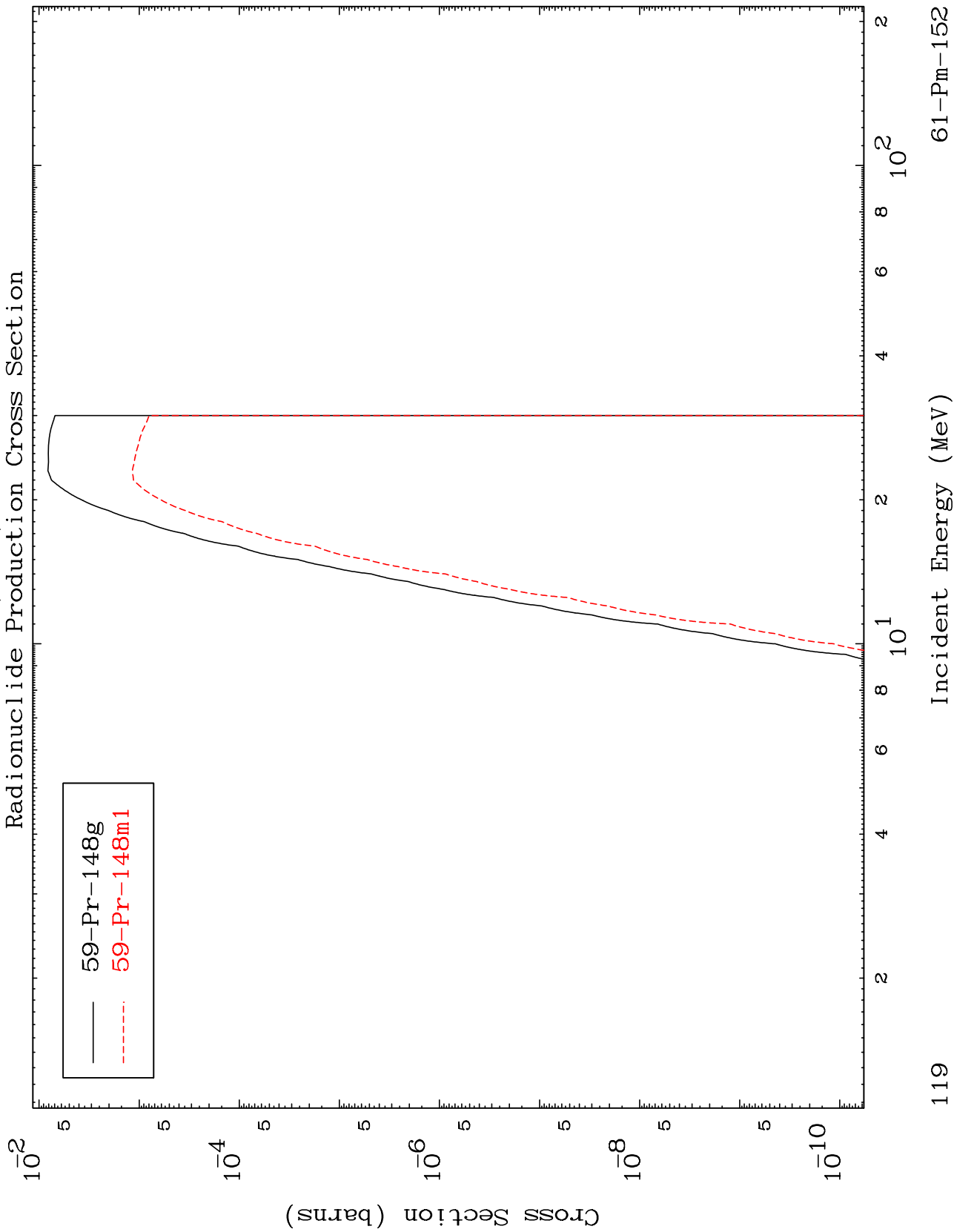
Inelastic
Radionuclide Production Cross Section



MAT 6164

$(n, n') \alpha$

61-Pm-152



119