

Program EVALPLOT
(Version 2021-1)

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

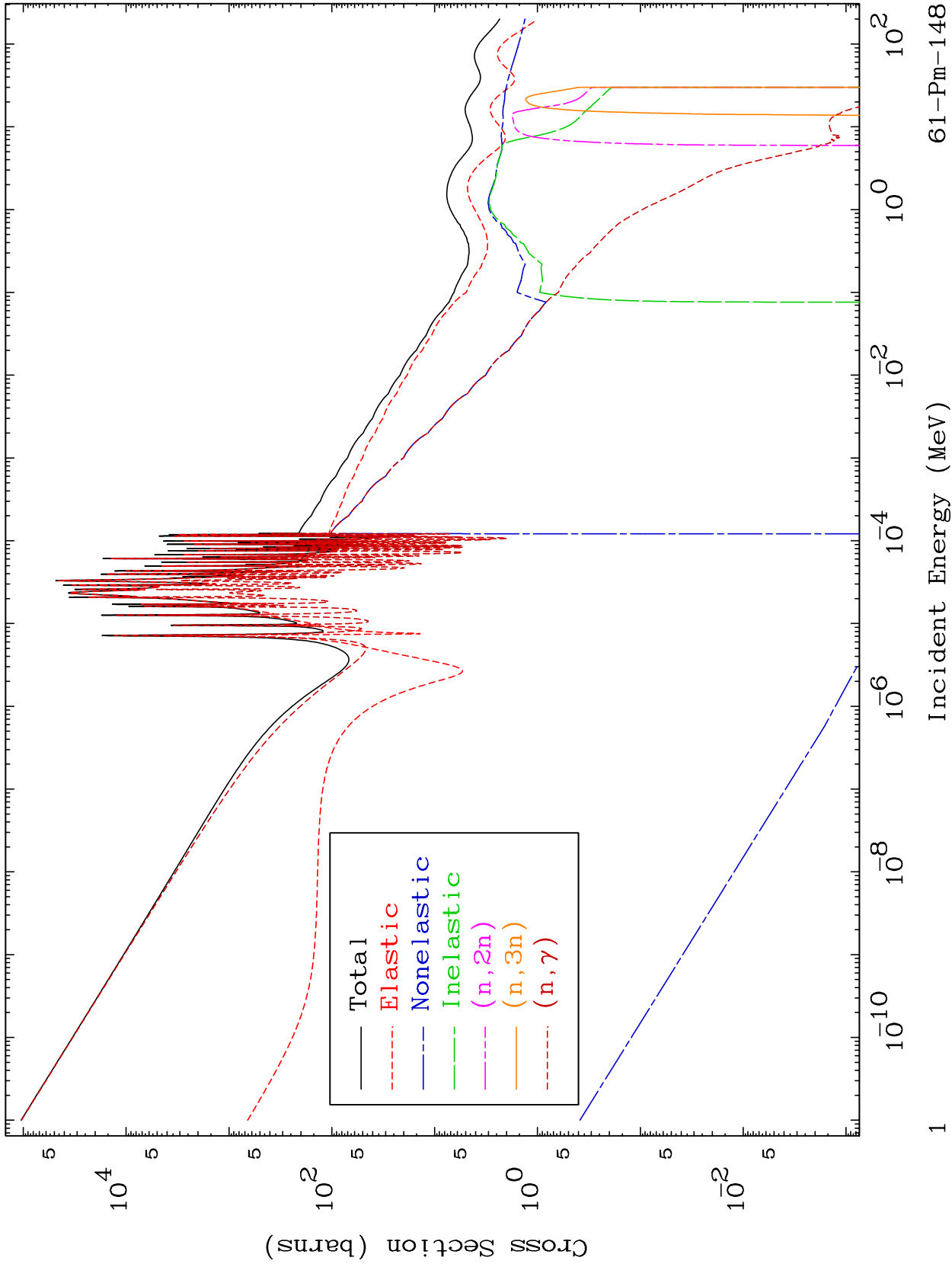
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6152

Neutron Major
293 Kelvin Cross Sections

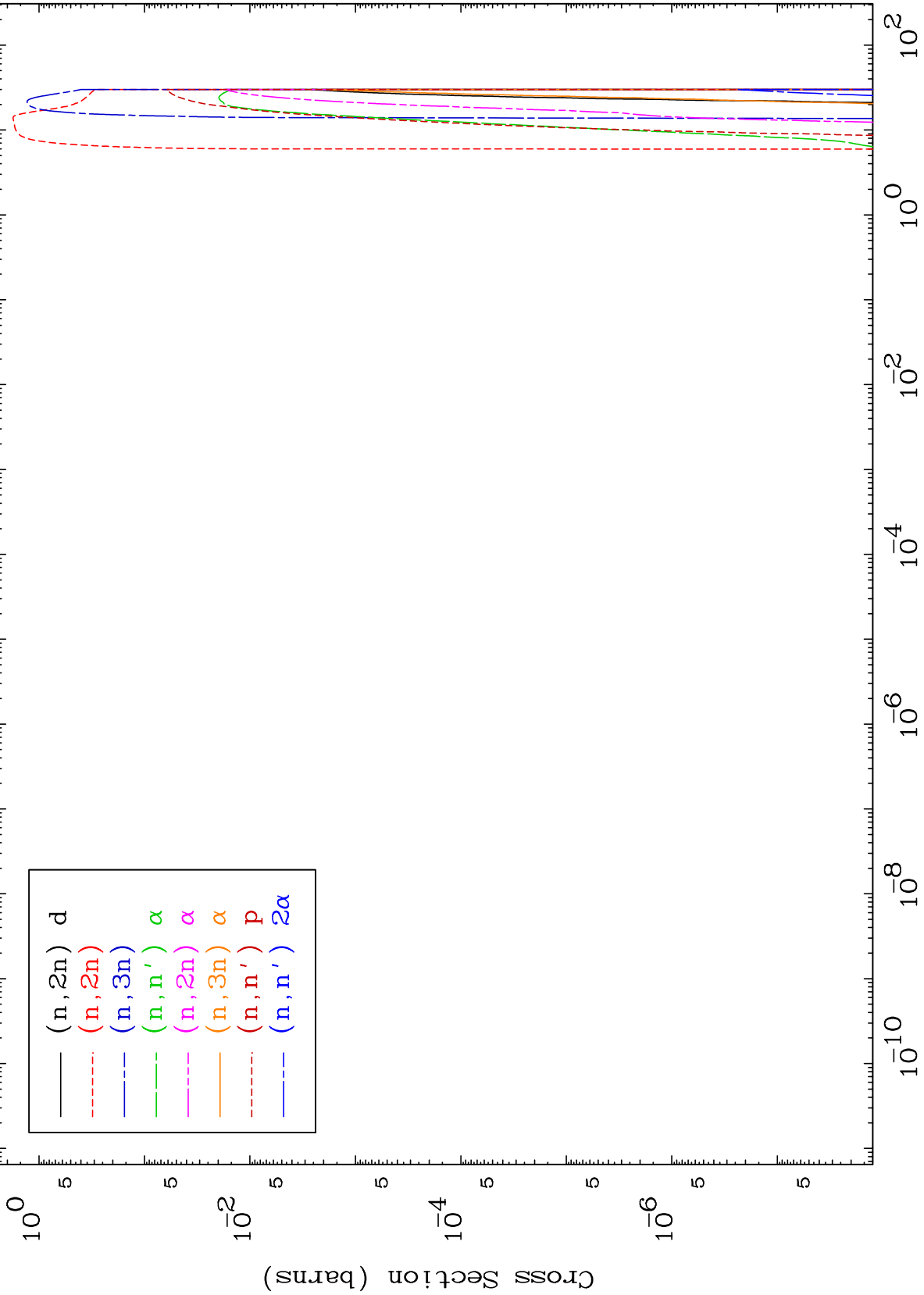
61-Pm-148



MAT 6152

Neutron Absorption
293 Kelvin Cross Sections

61-Pm-148



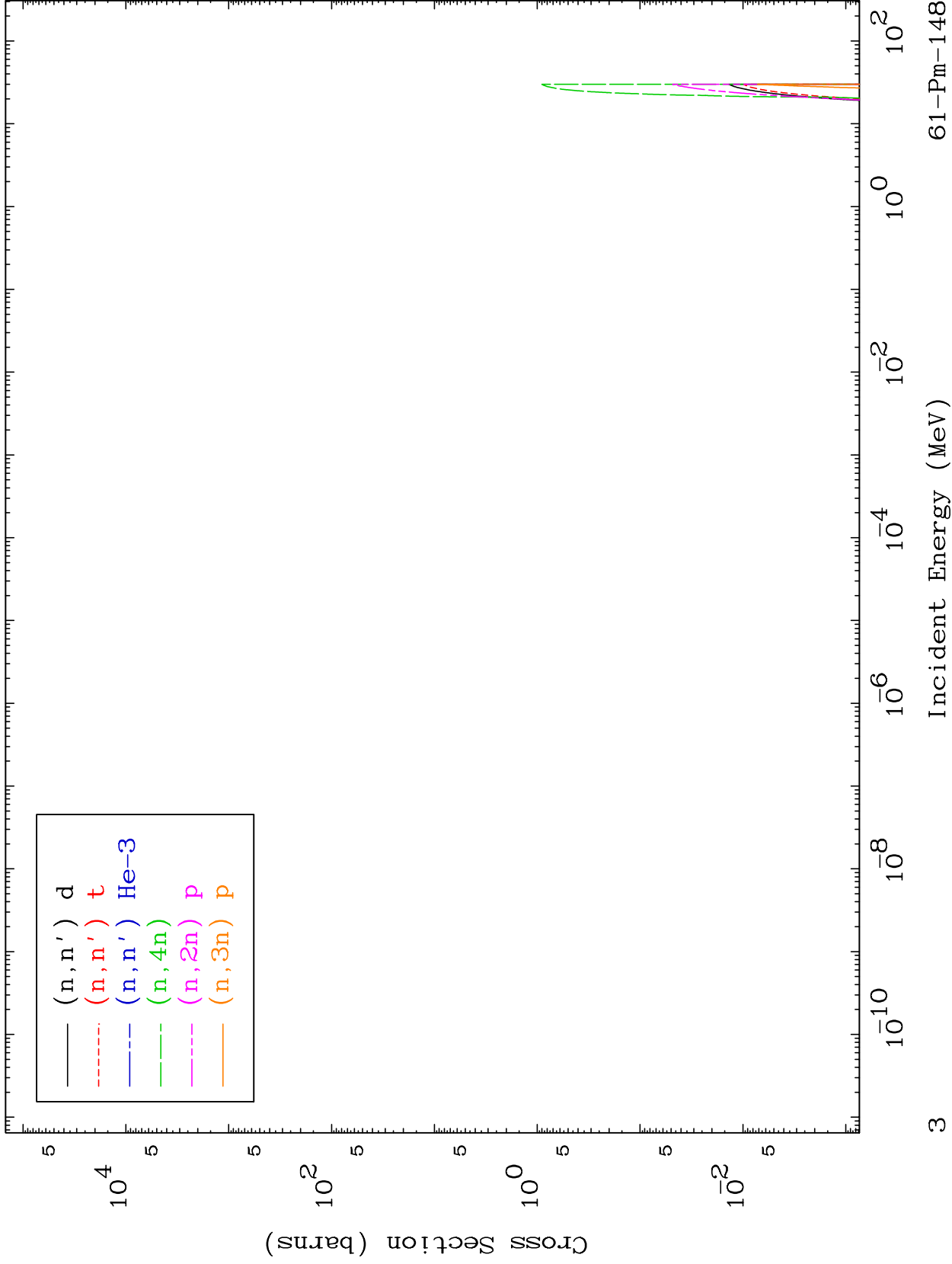
61-Pm-148

Incident Energy (MeV)

MAT 6152

Neutron Absorption
293 Kelvin Cross Sections

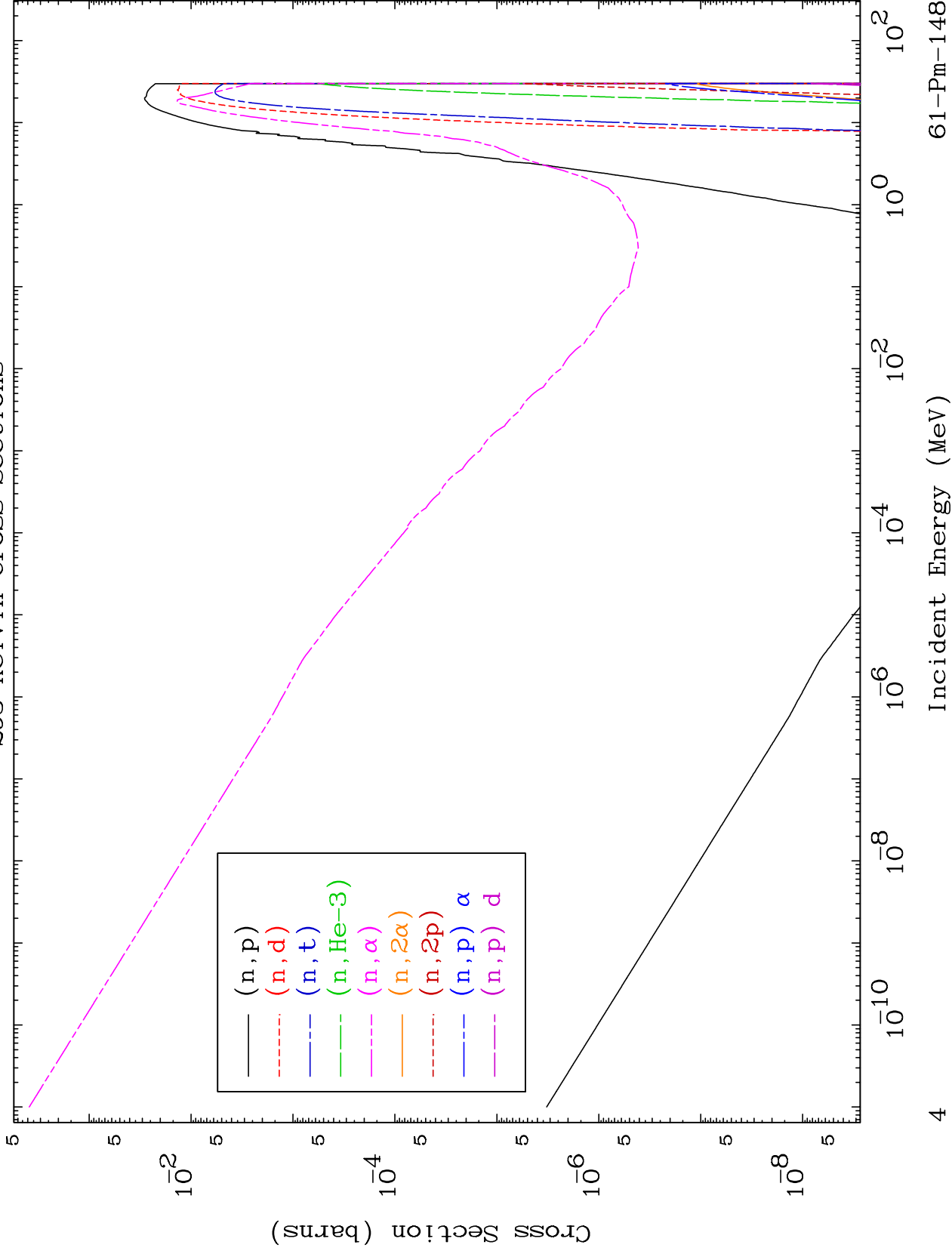
61-Pm-148

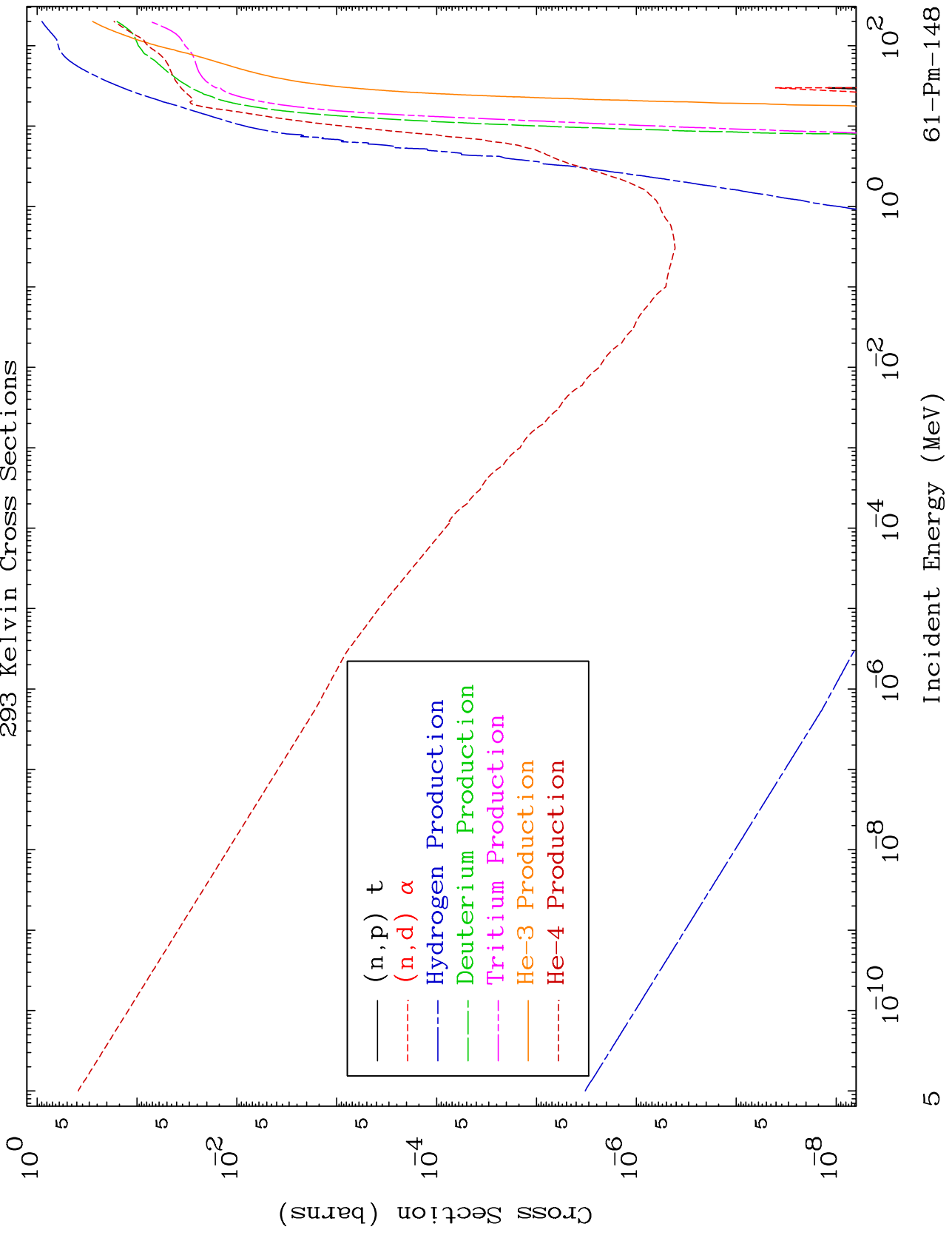


MAT 6152

Neutron Absorption
293 Kelvin Cross Sections

61-Pm-148

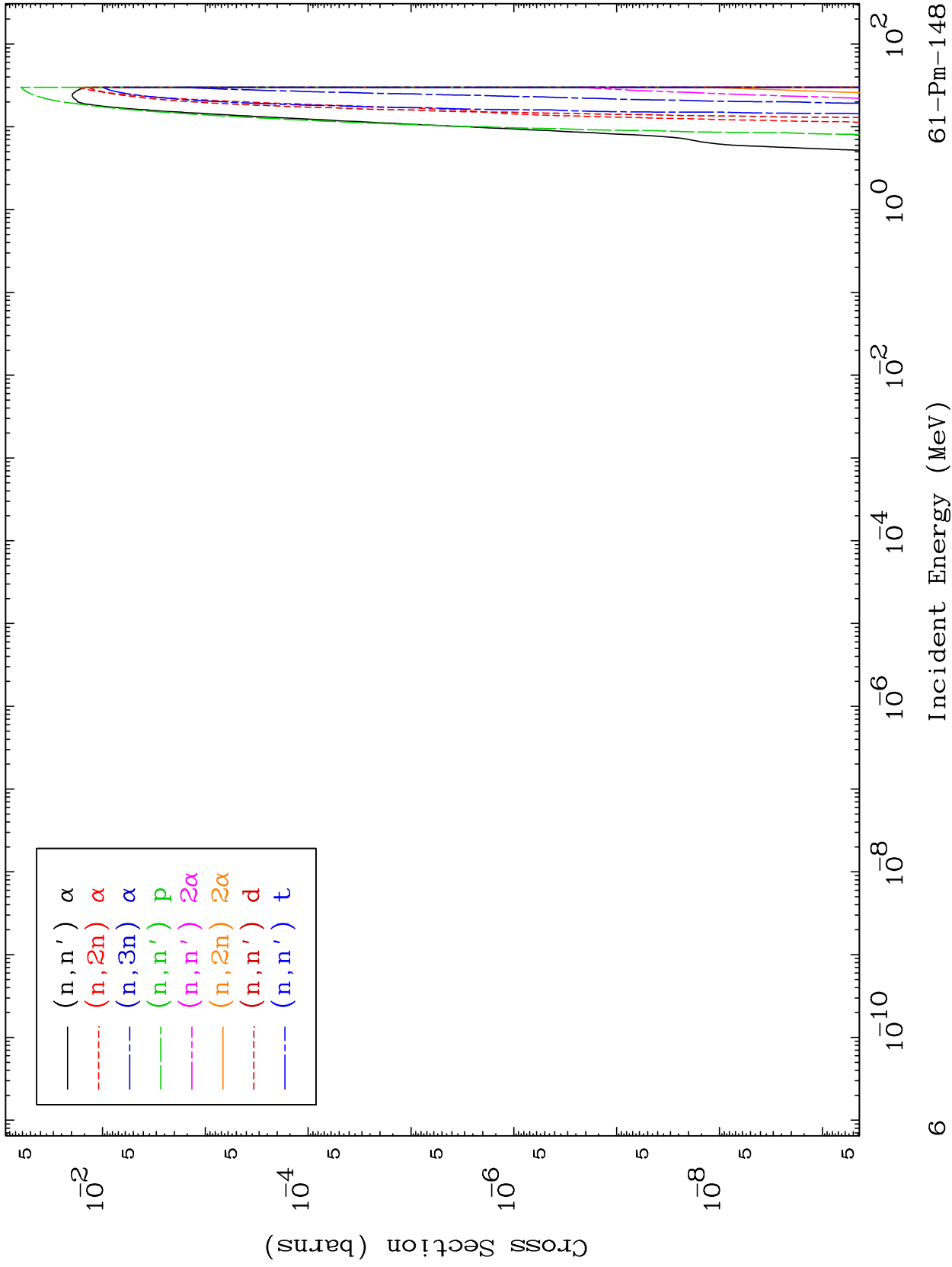


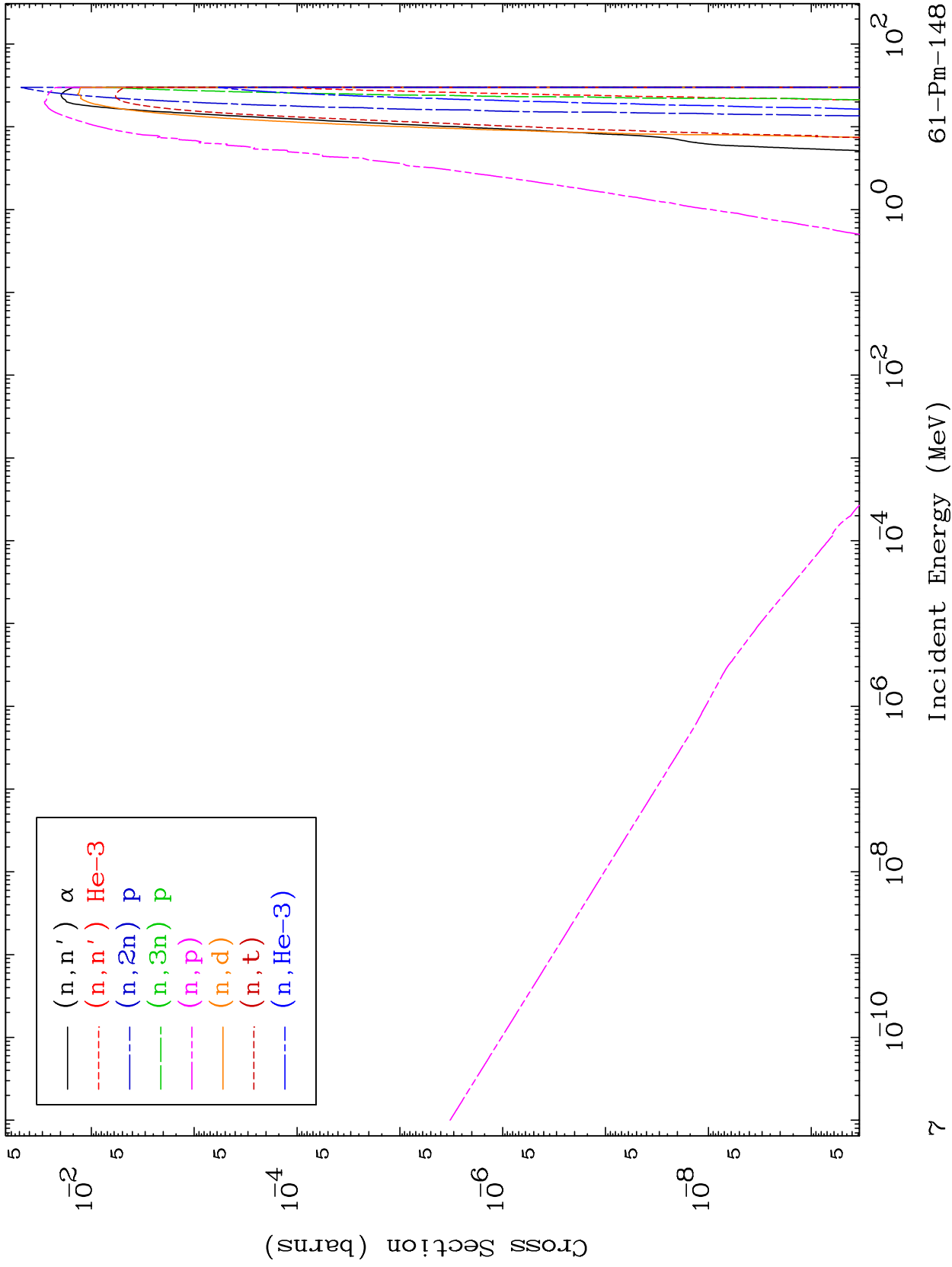


MAT 6152

Charged Particle
293 Kelvin Cross Sections

61-Pm-148

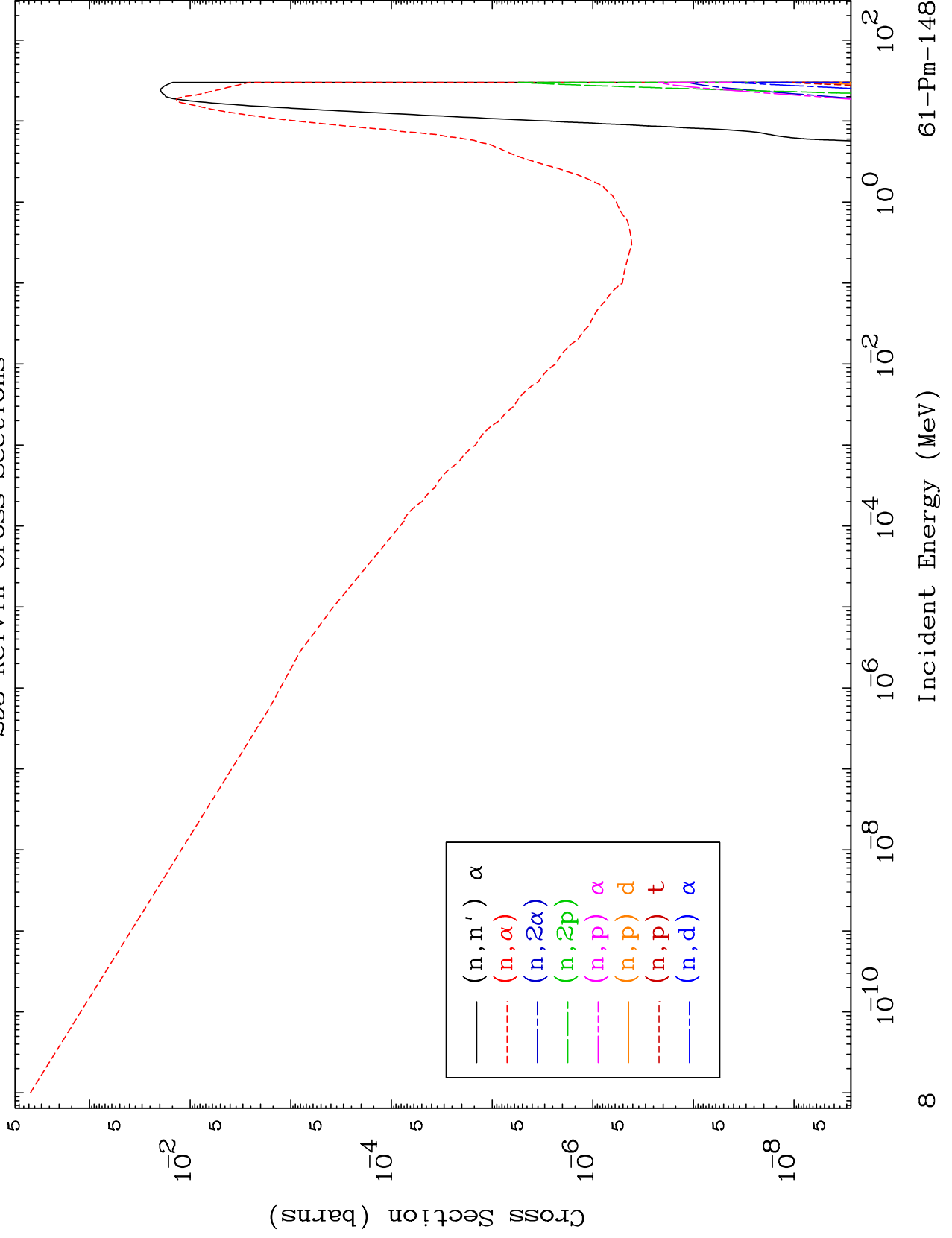




MAT 6152

Charged Particle
293 Kelvin Cross Sections

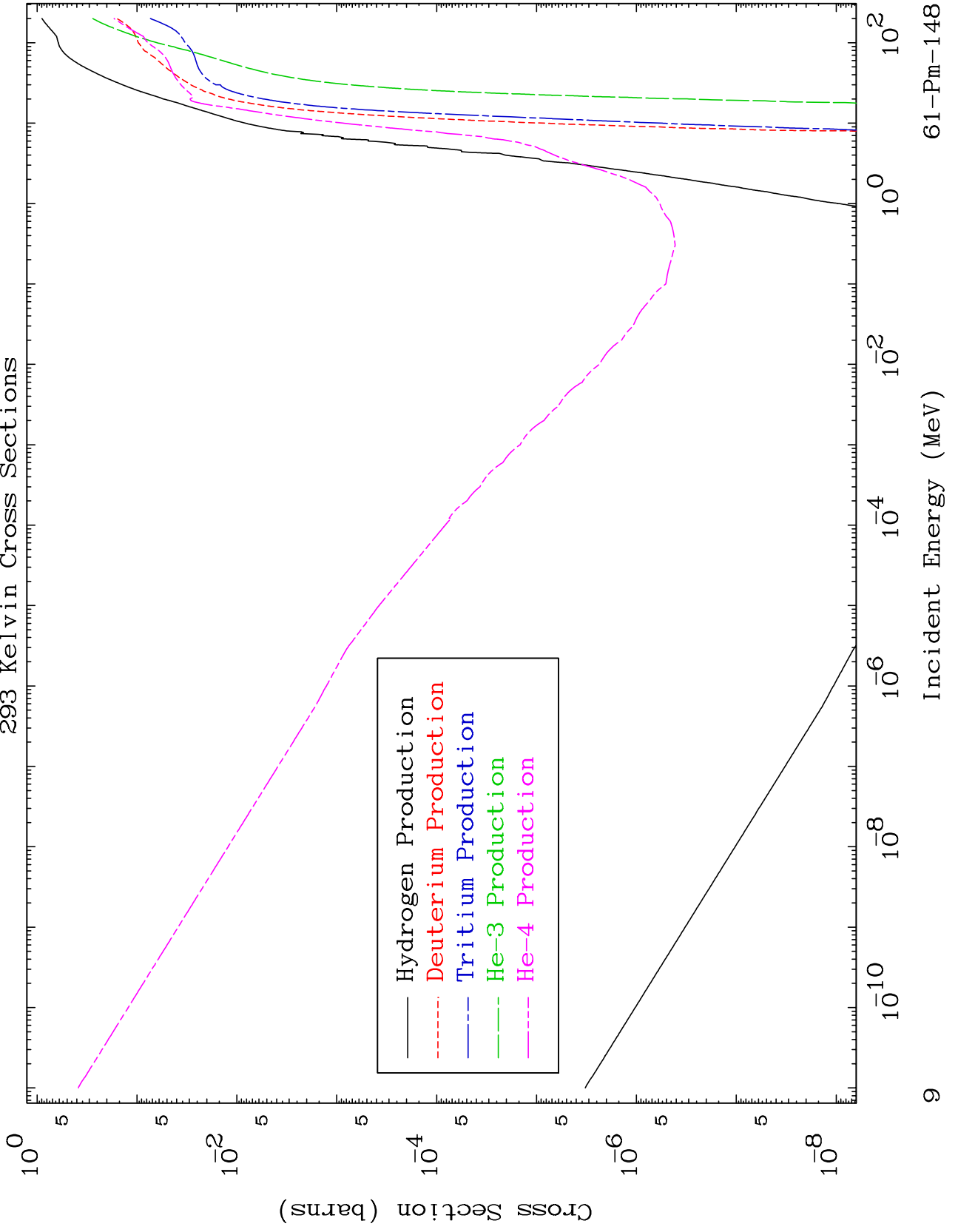
61-Pm-148



MAT 6152

Particle Production
293 Kelvin Cross Sections

61-Pm-148

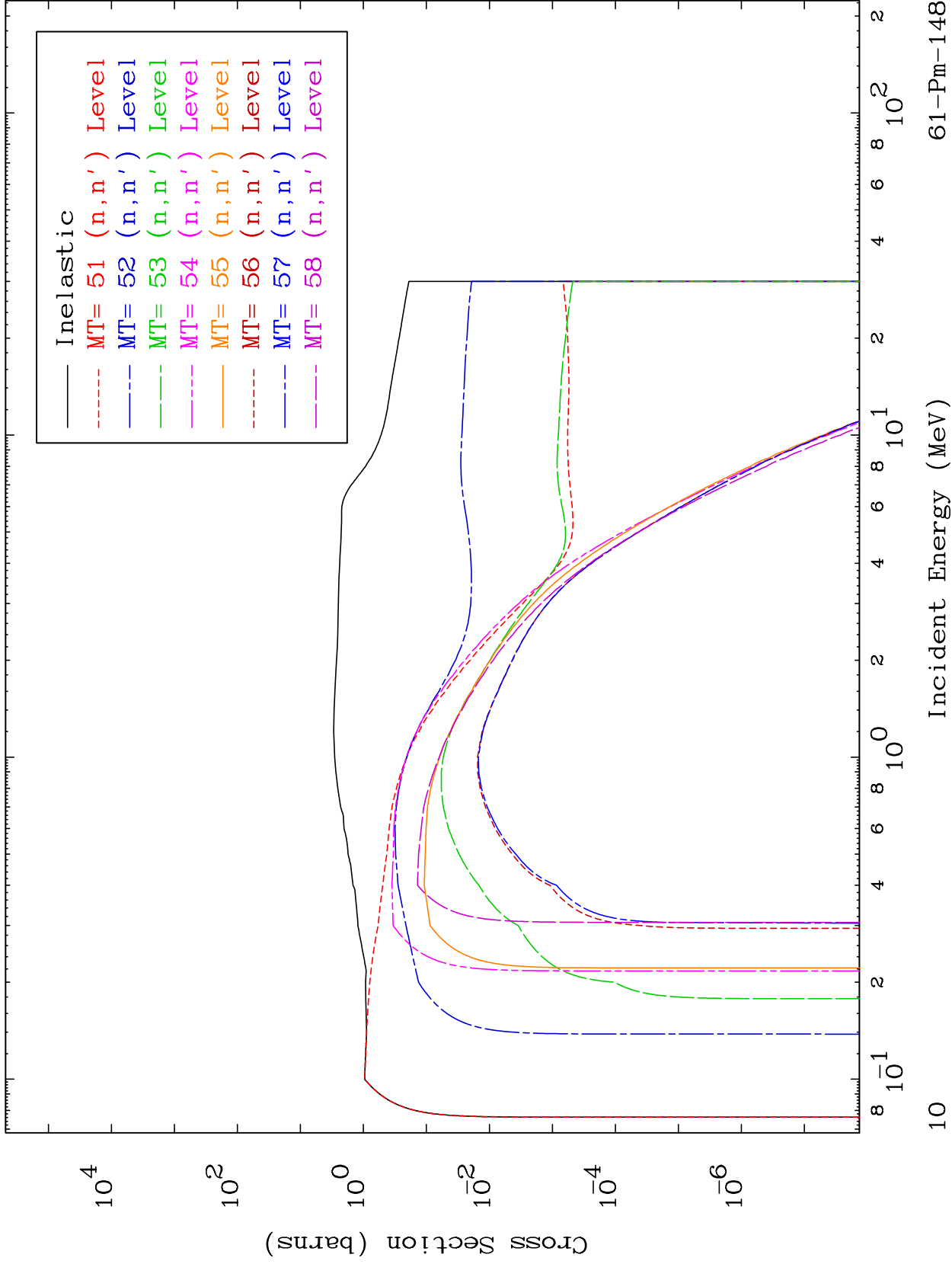


MAT 6152

(n,n') Levels

293 Kelvin Cross Sections

61-Pm-148

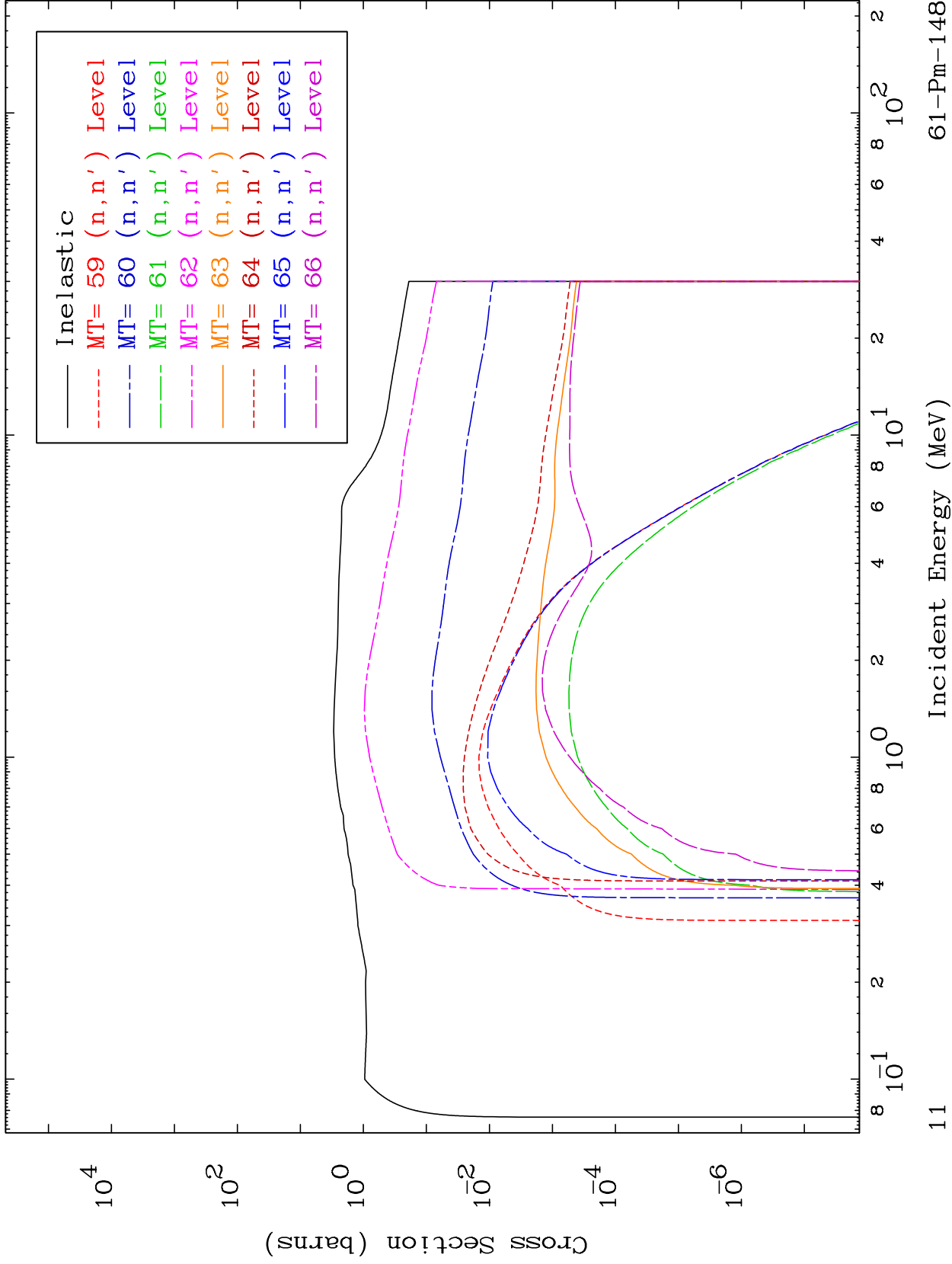


MAT 6152

(n,n') Levels

293 Kelvin Cross Sections

61-Pm-148

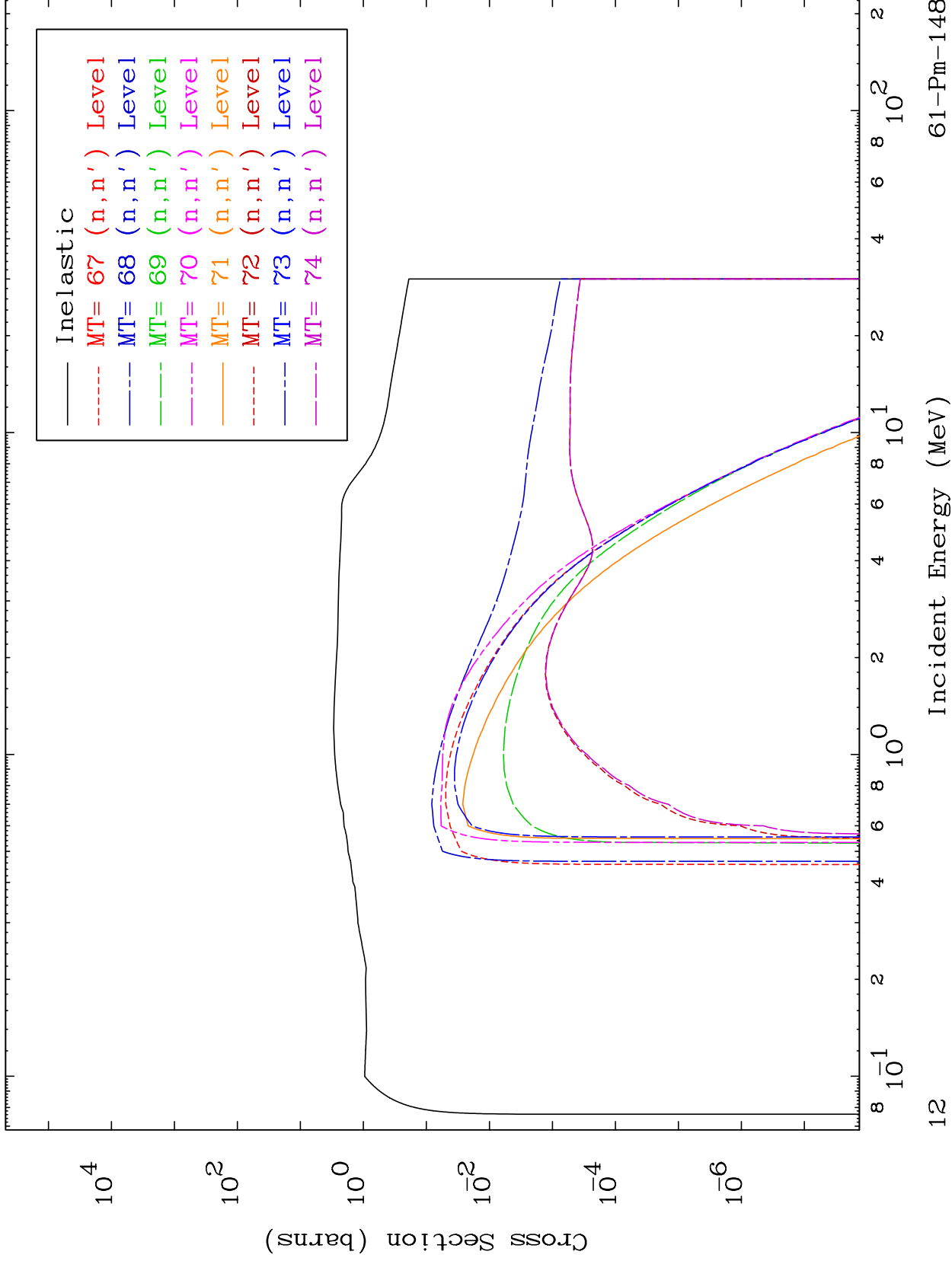


MAT 6152

(n,n') Levels

61-Pm-148

293 Kelvin Cross Sections



12

Incident Energy (MeV)

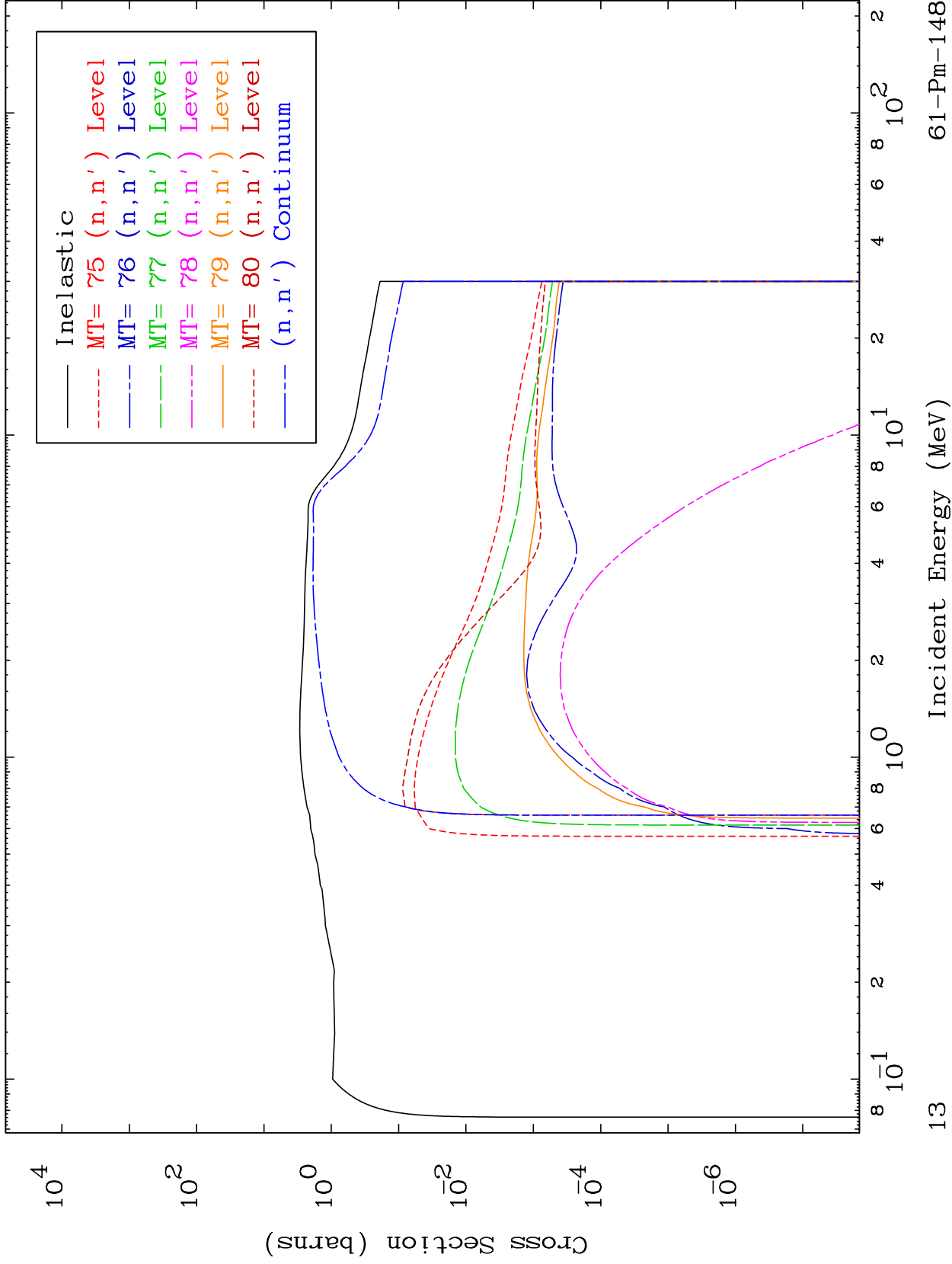
61-Pm-148

MAT 6152

(n,n') Levels

61-Pm-148

293 Kelvin Cross Sections



13

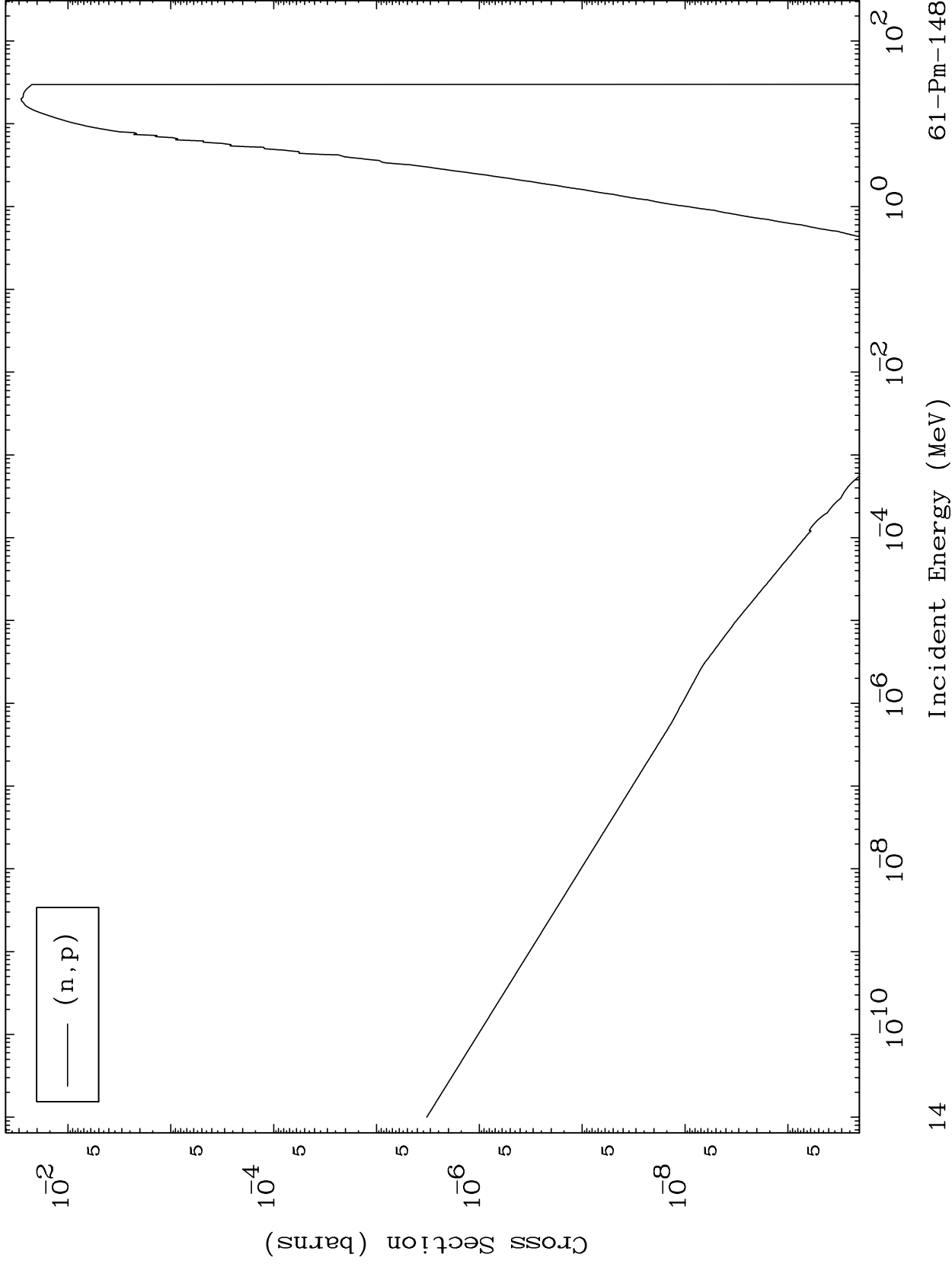
Incident Energy (MeV)

61-Pm-148

MAT 6152

(n,p) Levels
293 Kelvin Cross Sections

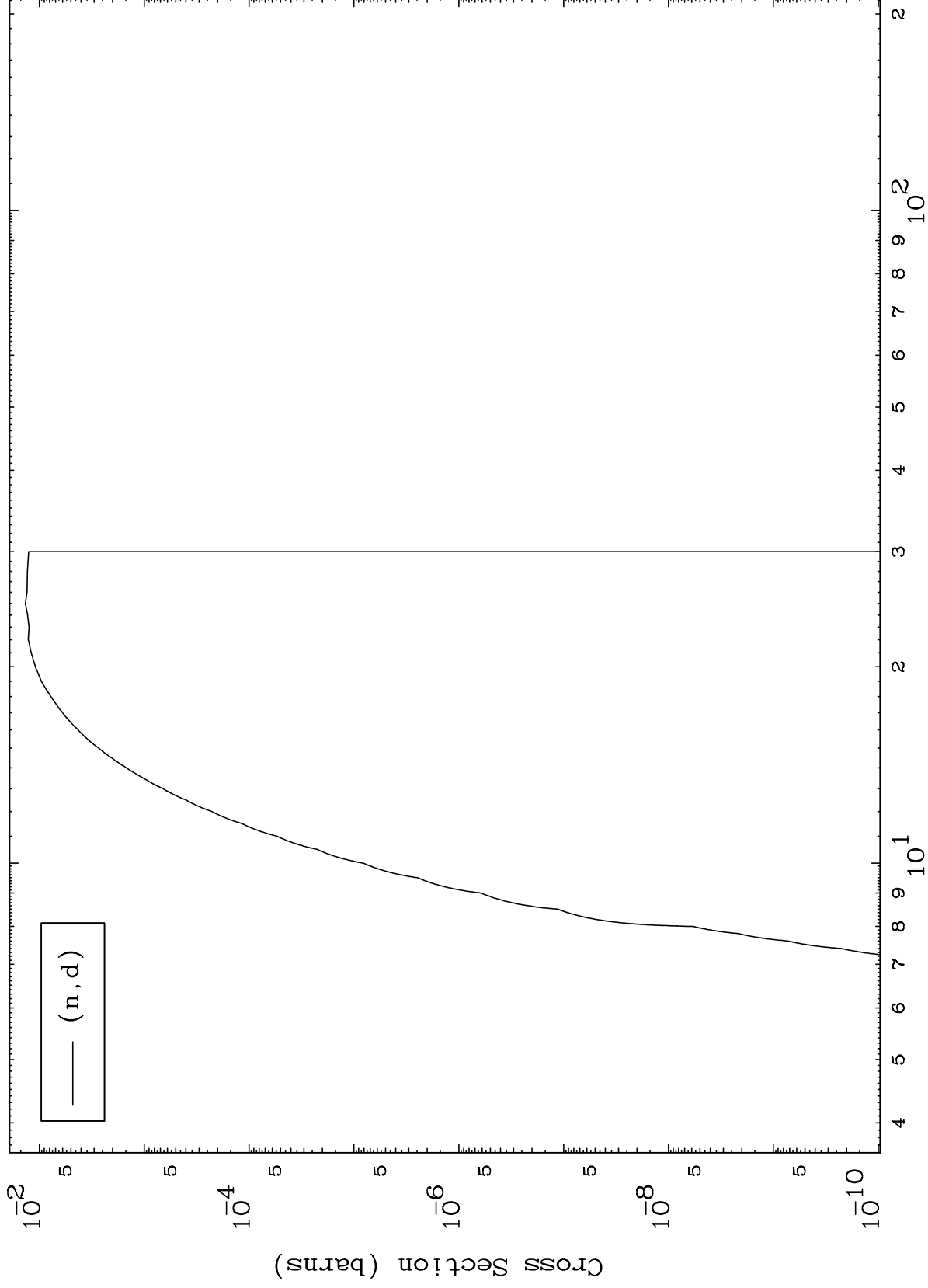
61-Pm-148



MAT 6152

(n,d) Levels
293 Kelvin Cross Sections

61-Pm-148



15

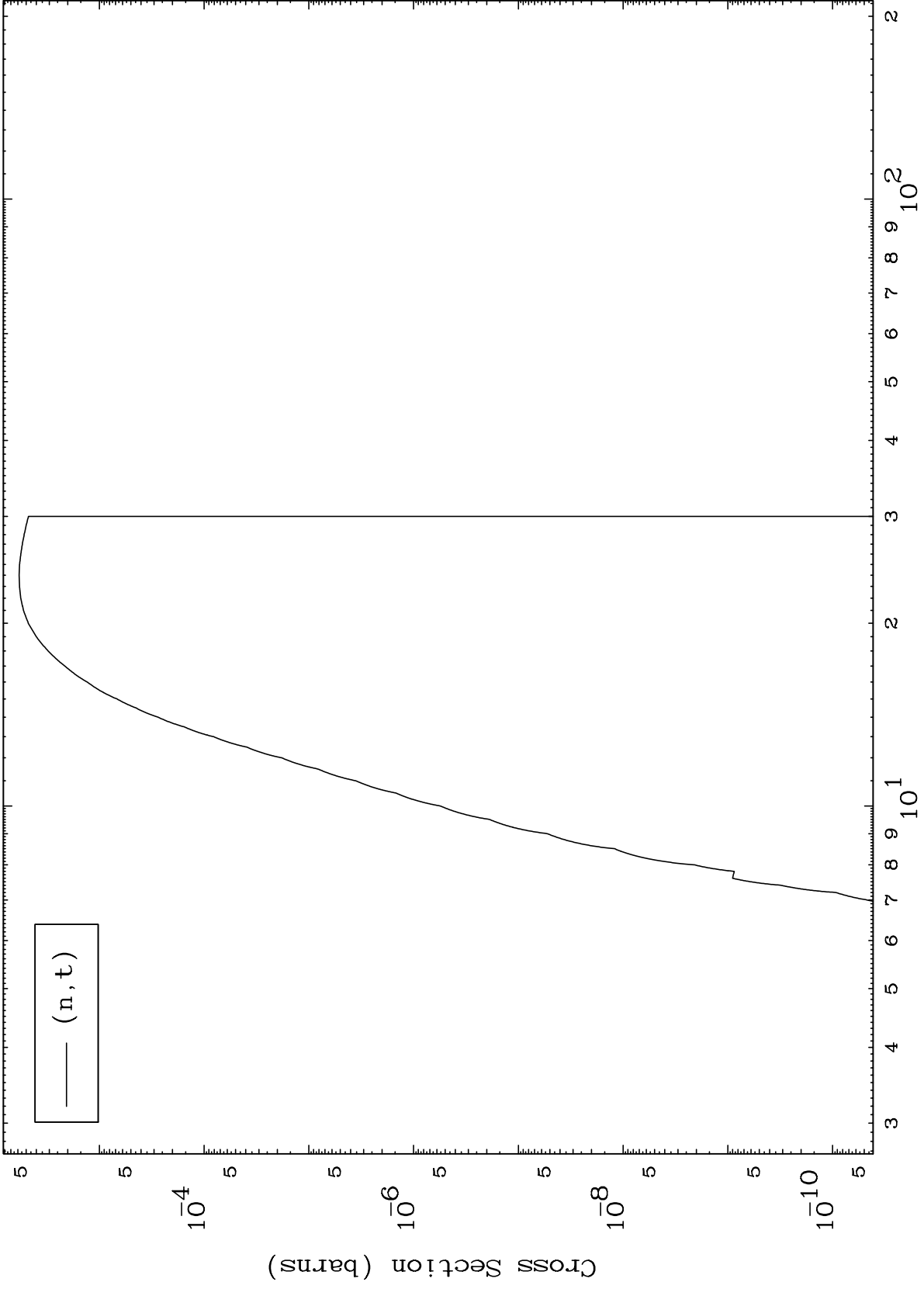
Incident Energy (MeV)

61-Pm-148

MAT 6152

(n,t) Levels
293 Kelvin Cross Sections

61-Pm-148



16

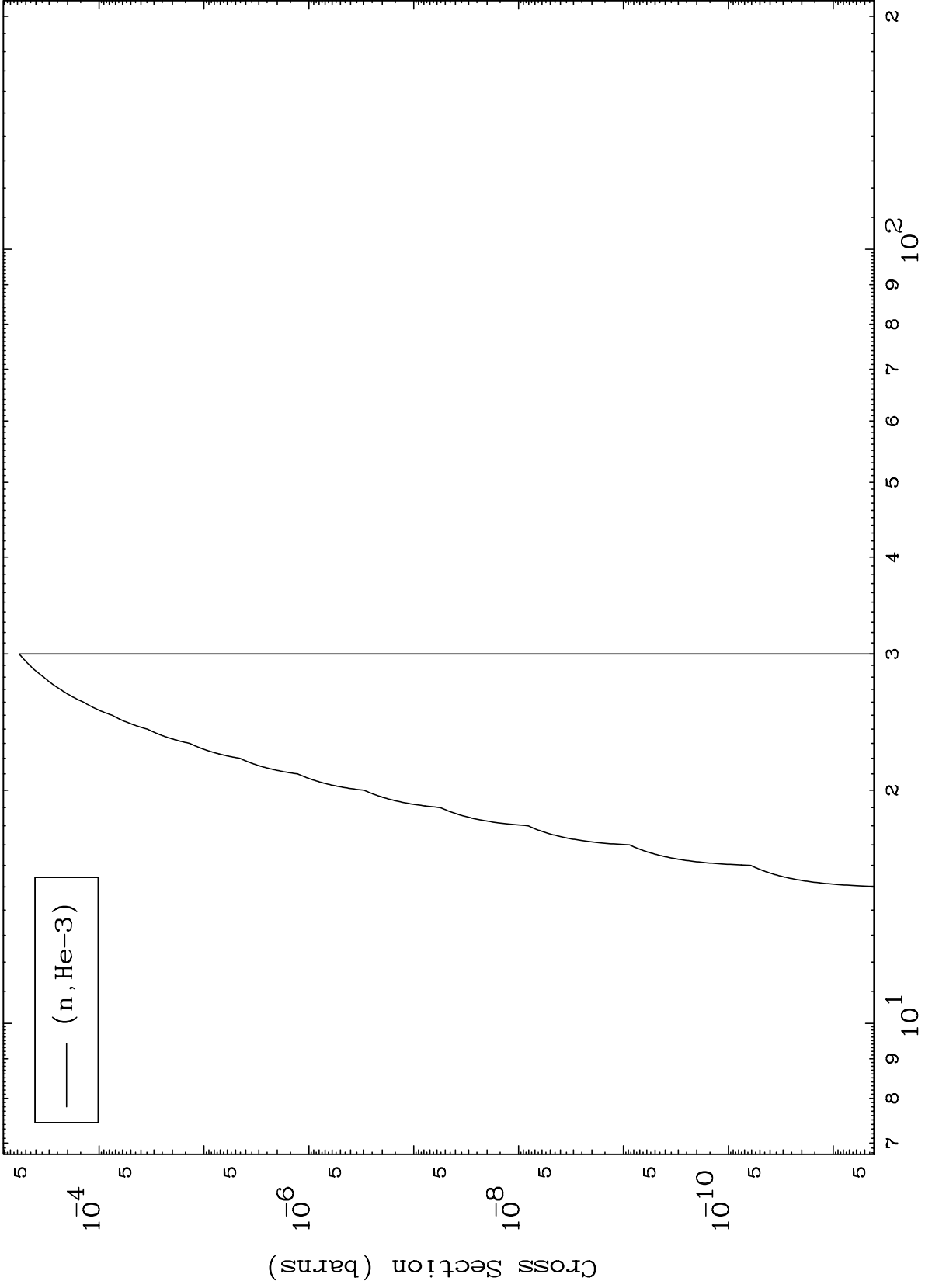
Incident Energy (MeV)

61-Pm-148

MAT 6152

(n,He3) Levels
293 Kelvin Cross Sections

61-Pm-148



17

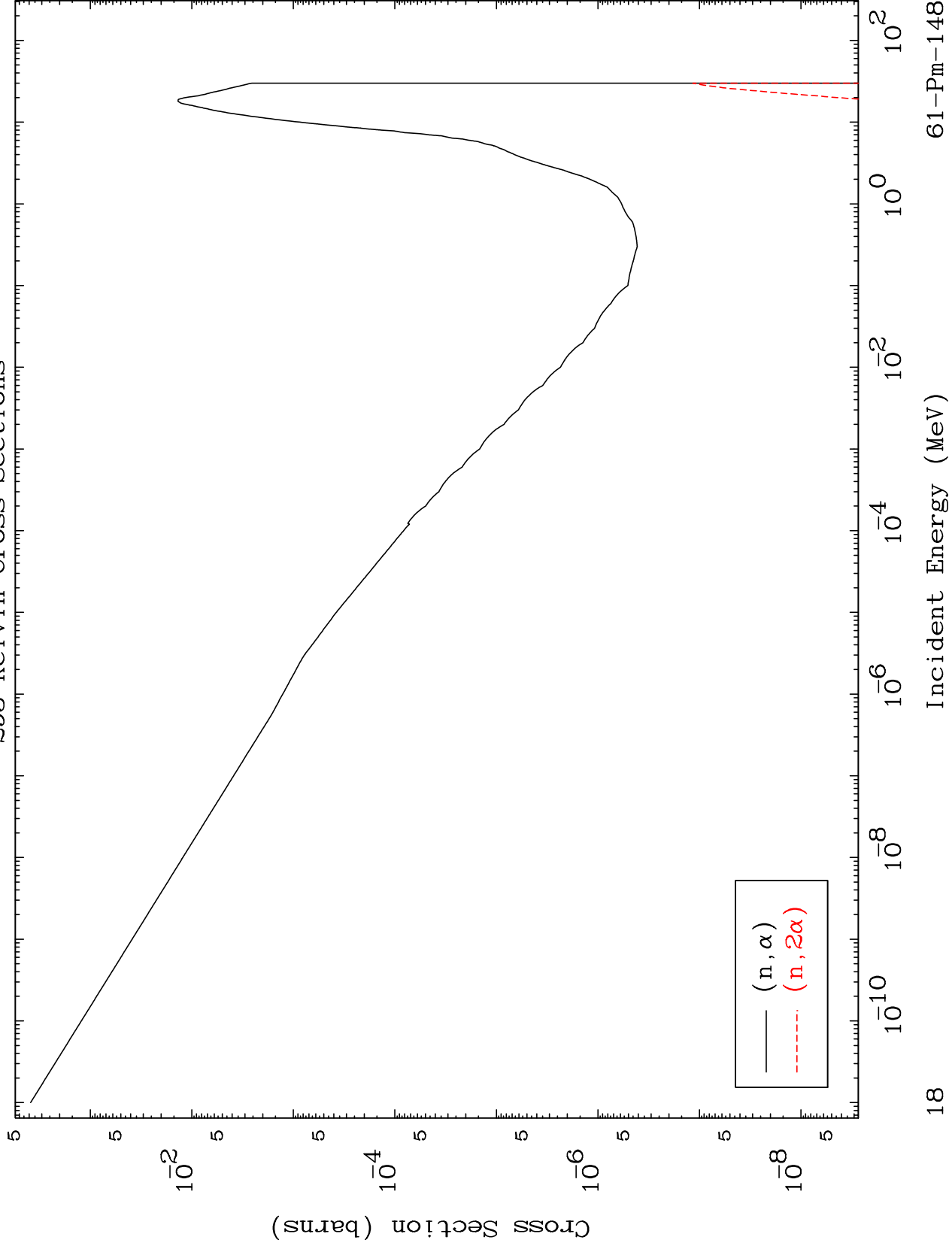
Incident Energy (MeV)

61-Pm-148

MAT 6152

(n,α) Levels
293 Kelvin Cross Sections

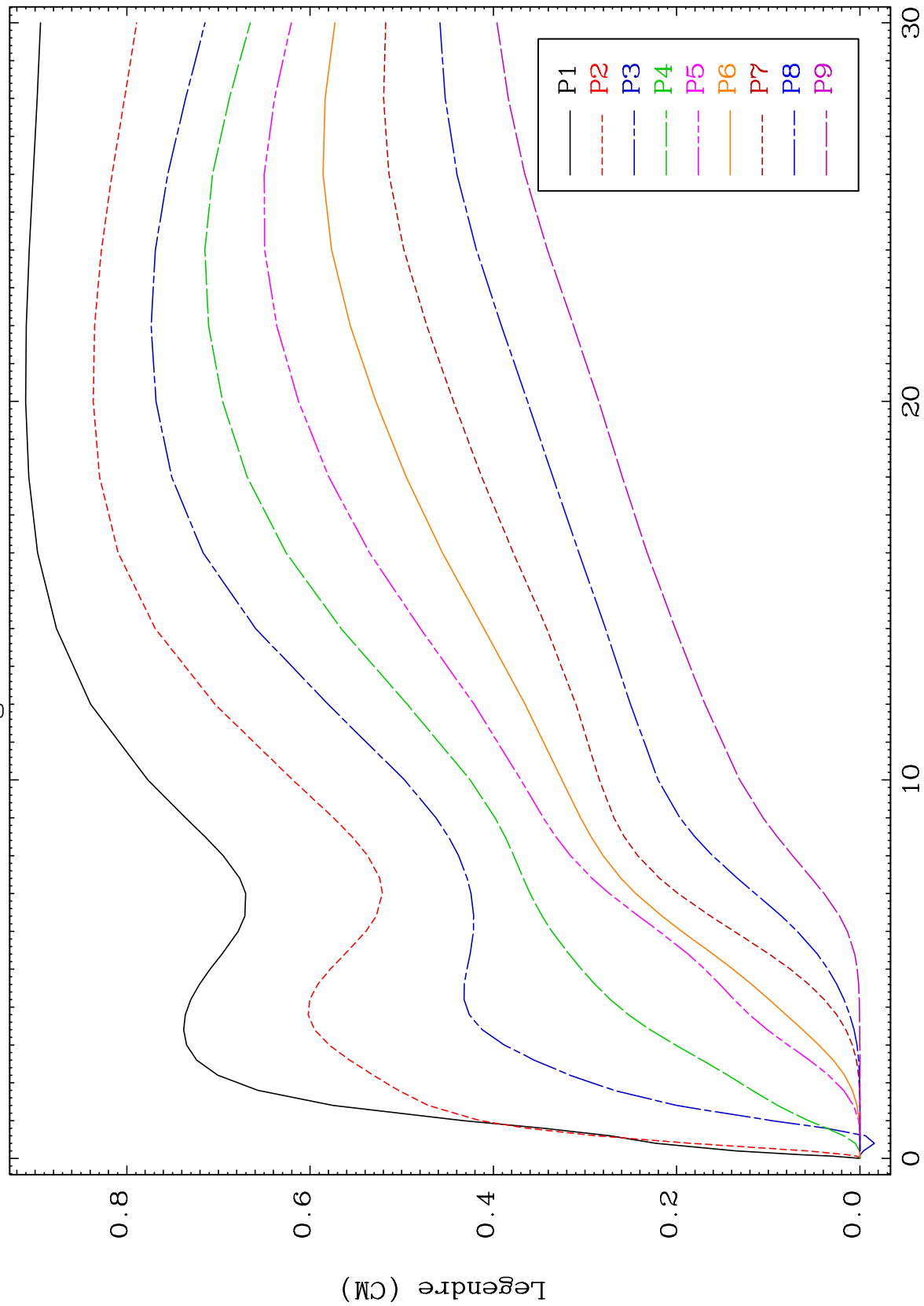
61-Pm-148



MAT 6152

Elastic Legendre Coefficients

61-Pm-148



19

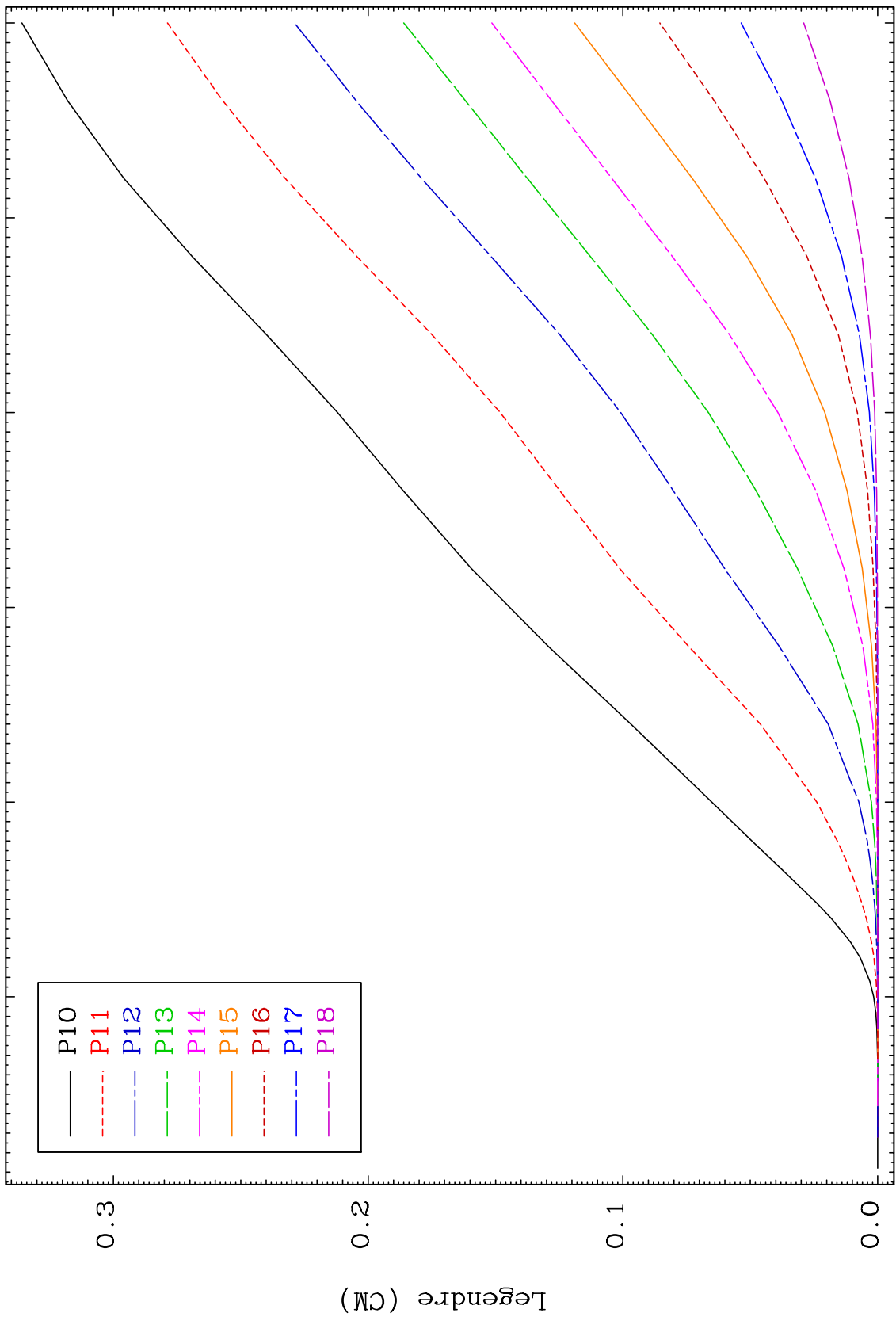
Incident Energy (MeV)

61-Pm-148

MAT 6152

Elastic Legendre Coefficients

61-Pm-148



20

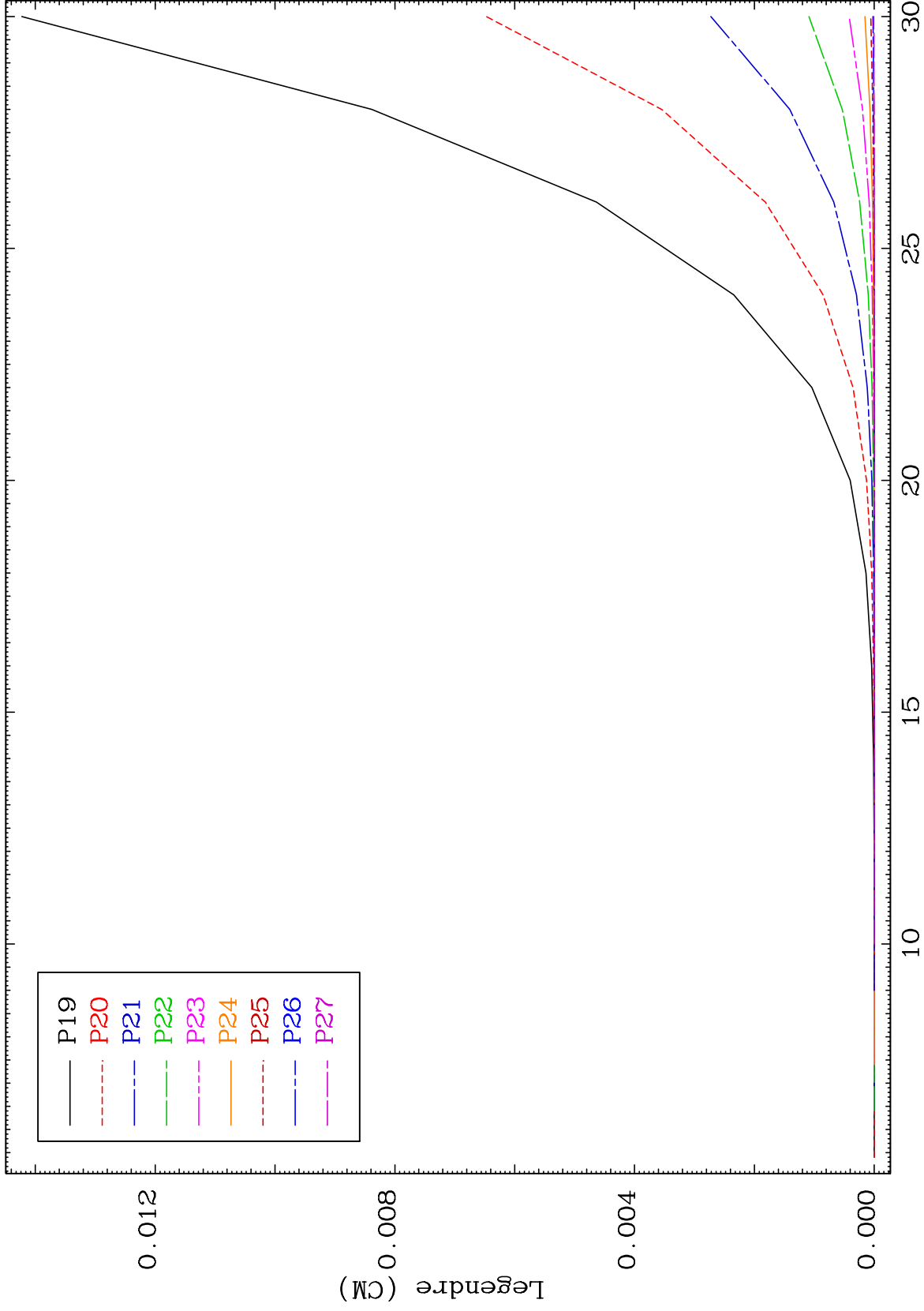
Incident Energy (MeV)

61-Pm-148

MAT 6152

Elastic Legendre Coefficients

61-Pm-148



21

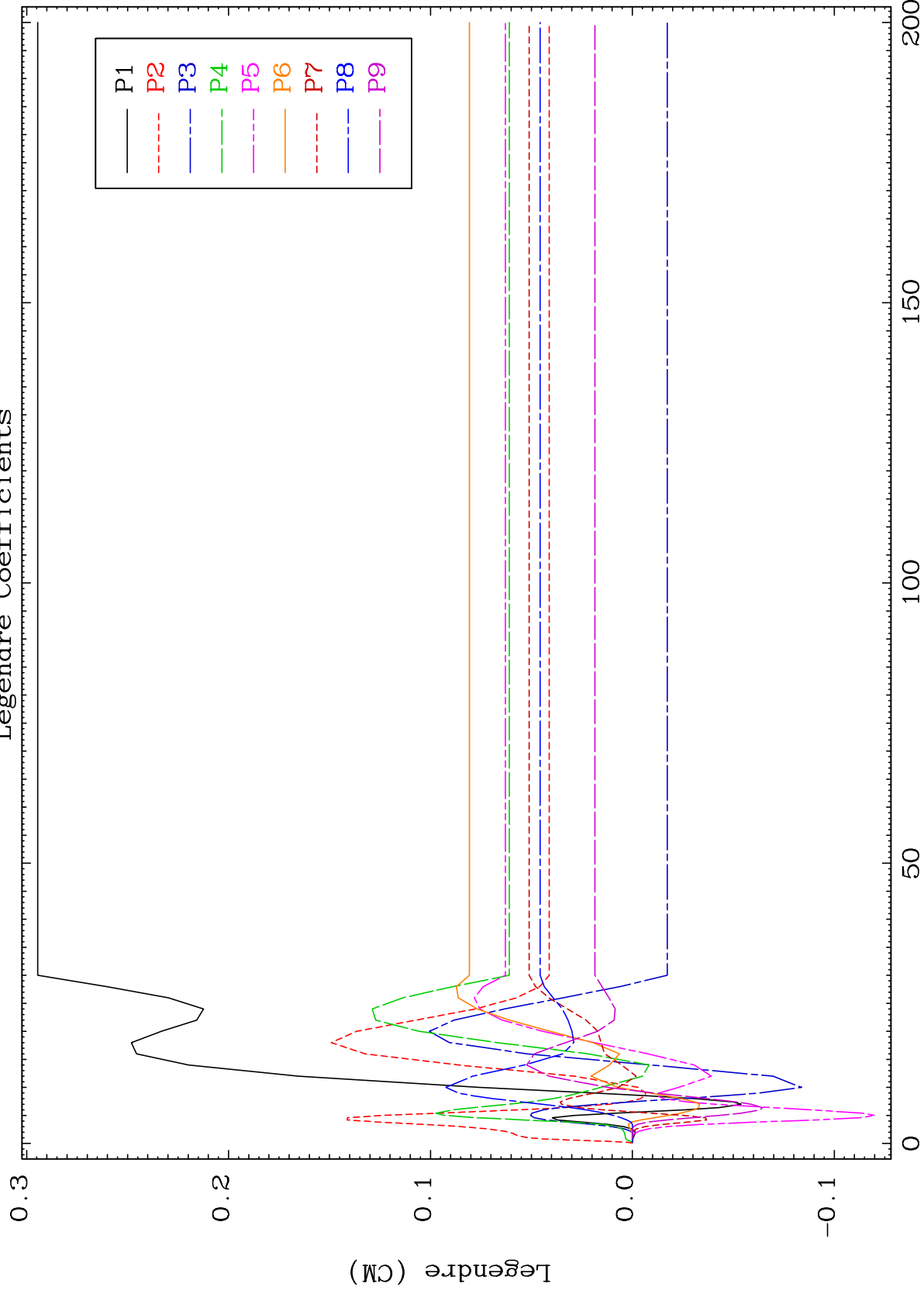
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

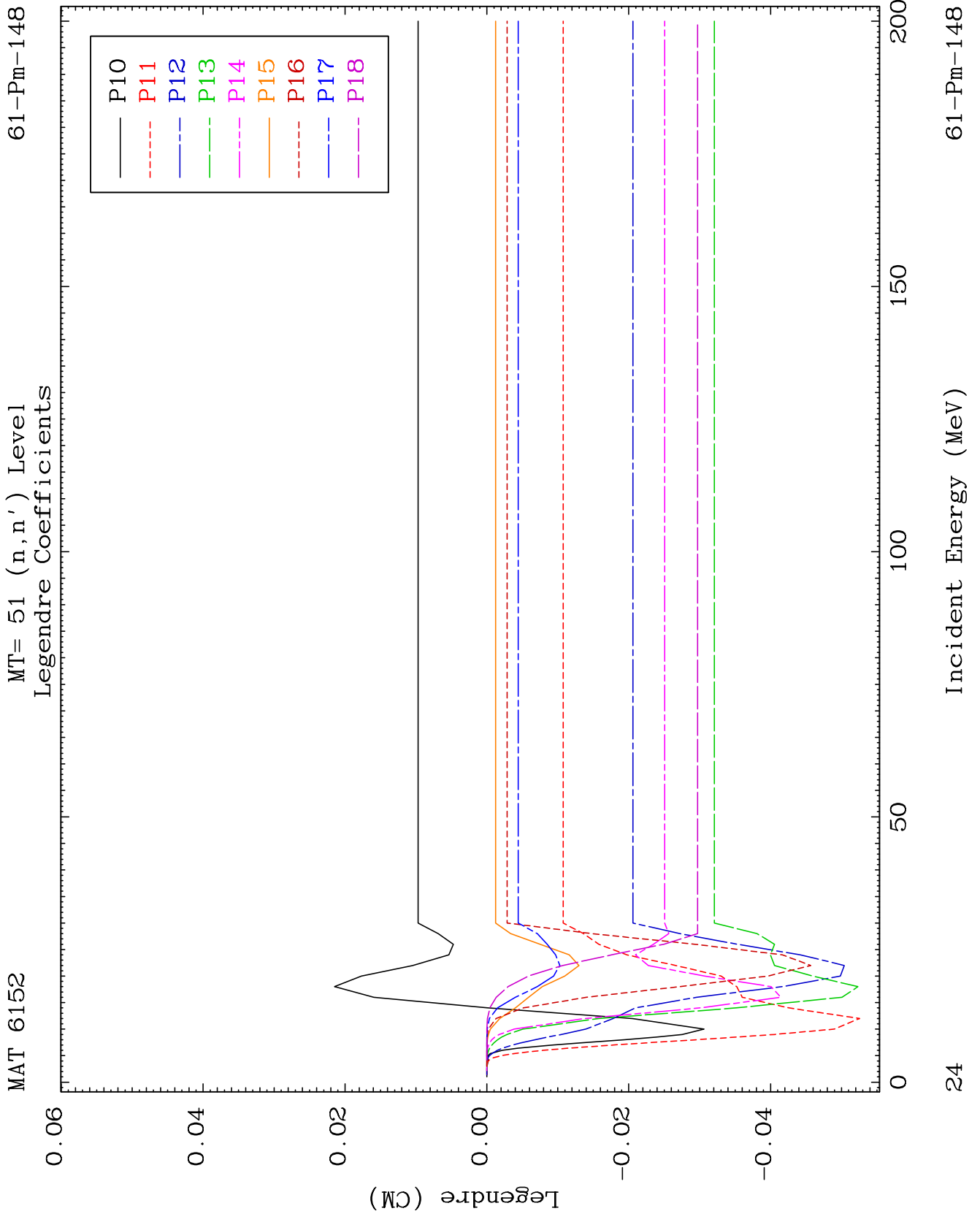
61-Pm-148



23

Incident Energy (MeV)

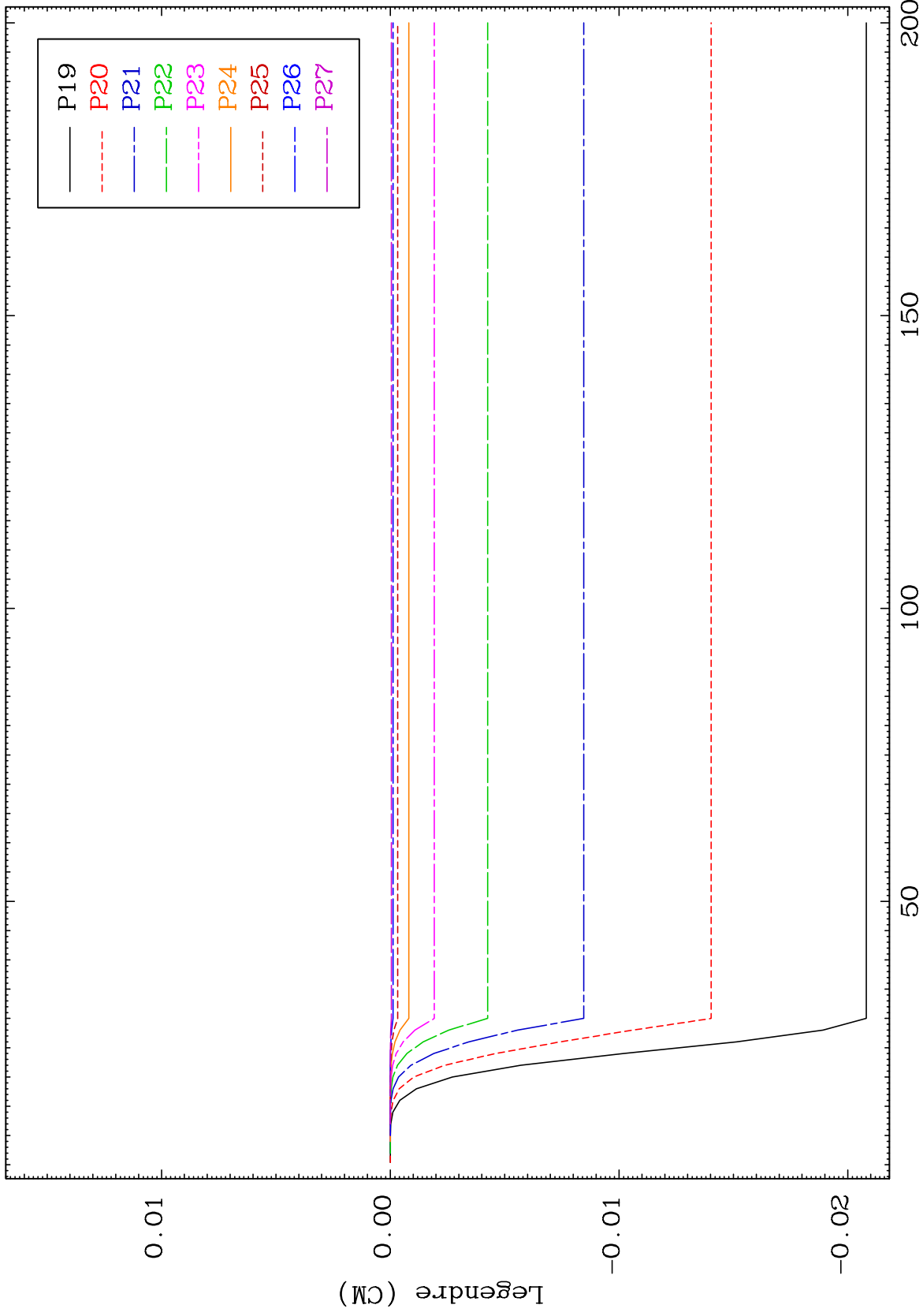
61-Pm-148



MAT 6152

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

61-Pm-148



25

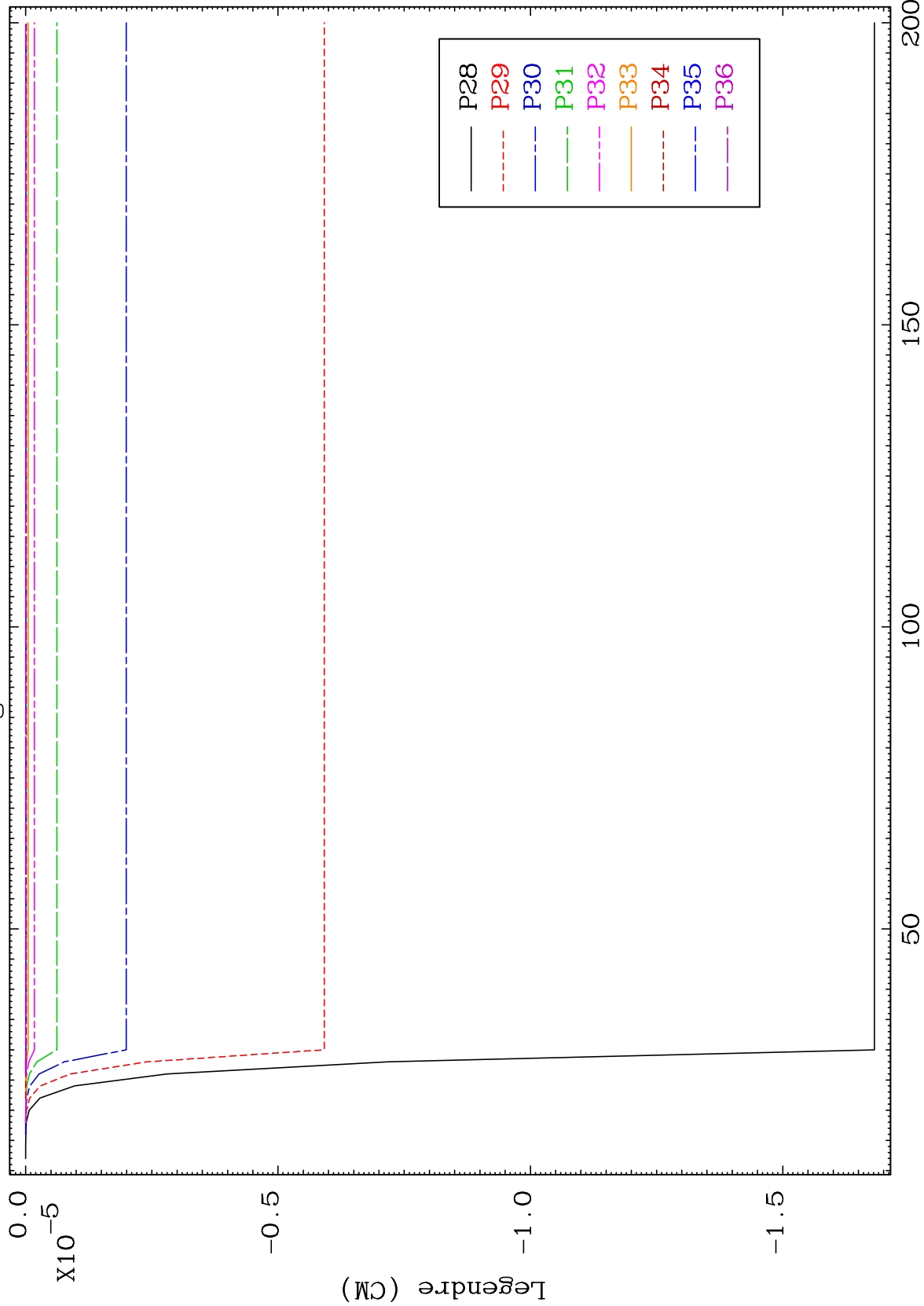
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



61-Pm-148

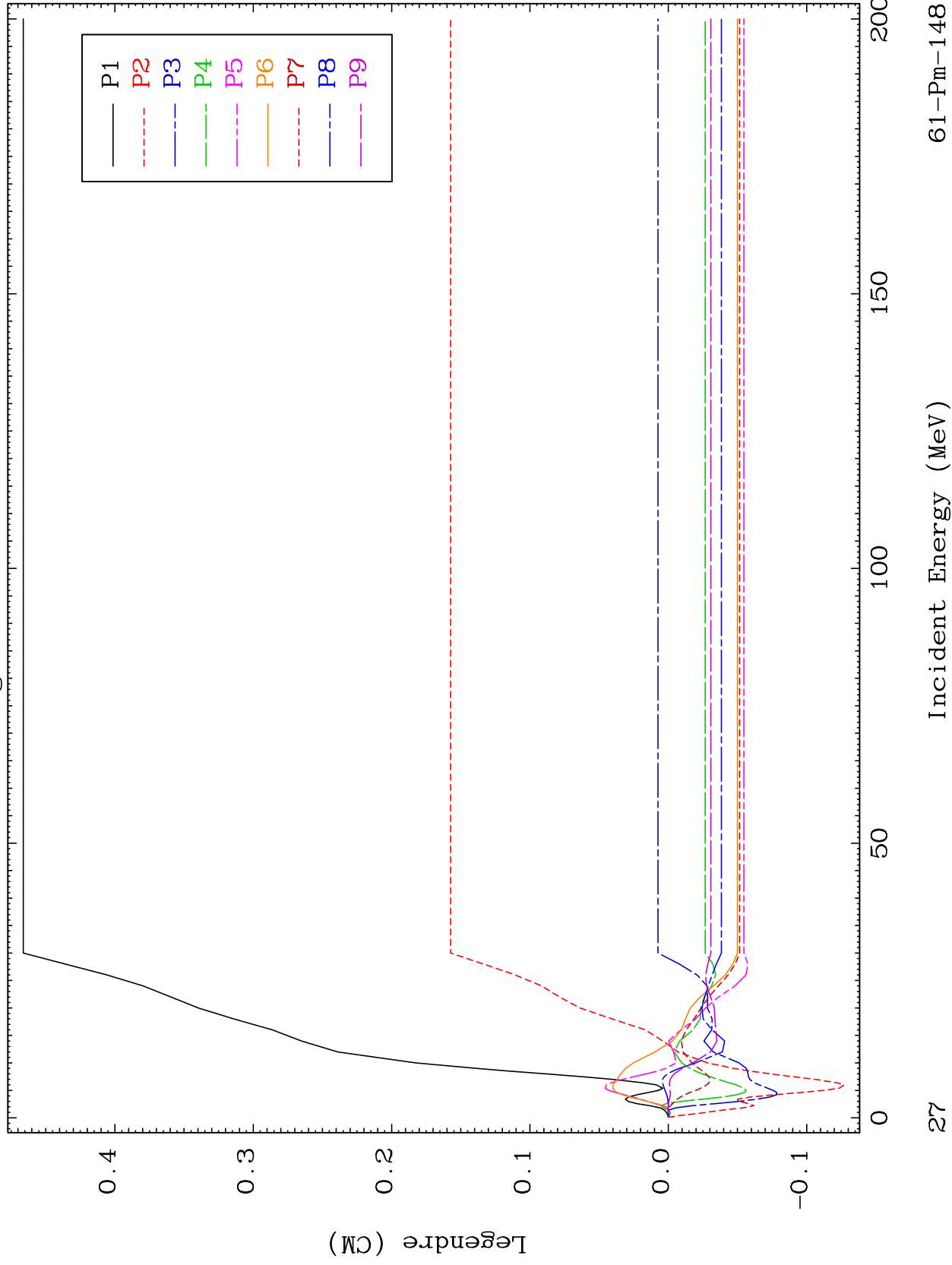
Incident Energy (MeV)

26

MAT 6152

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

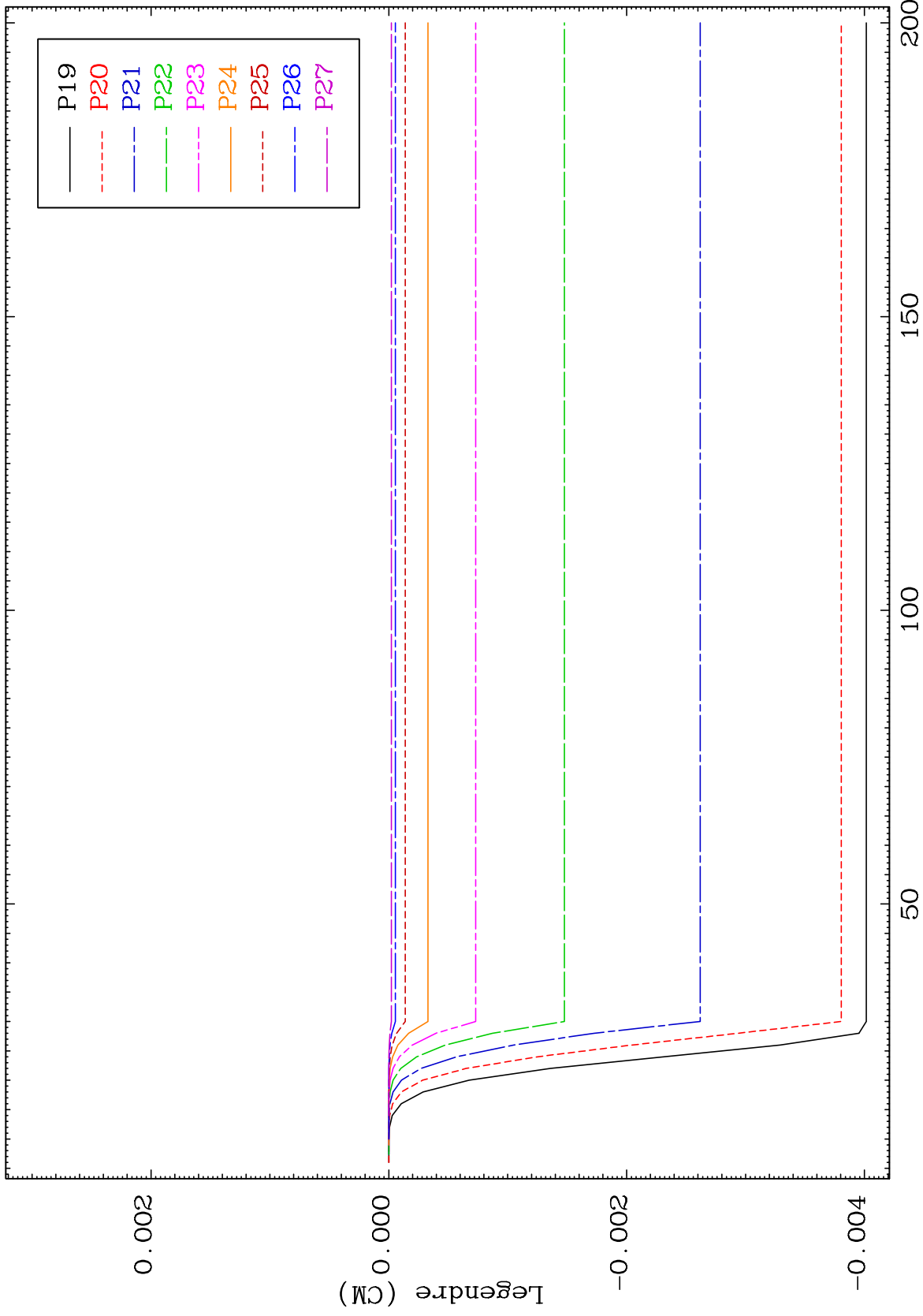
61-Pm-148

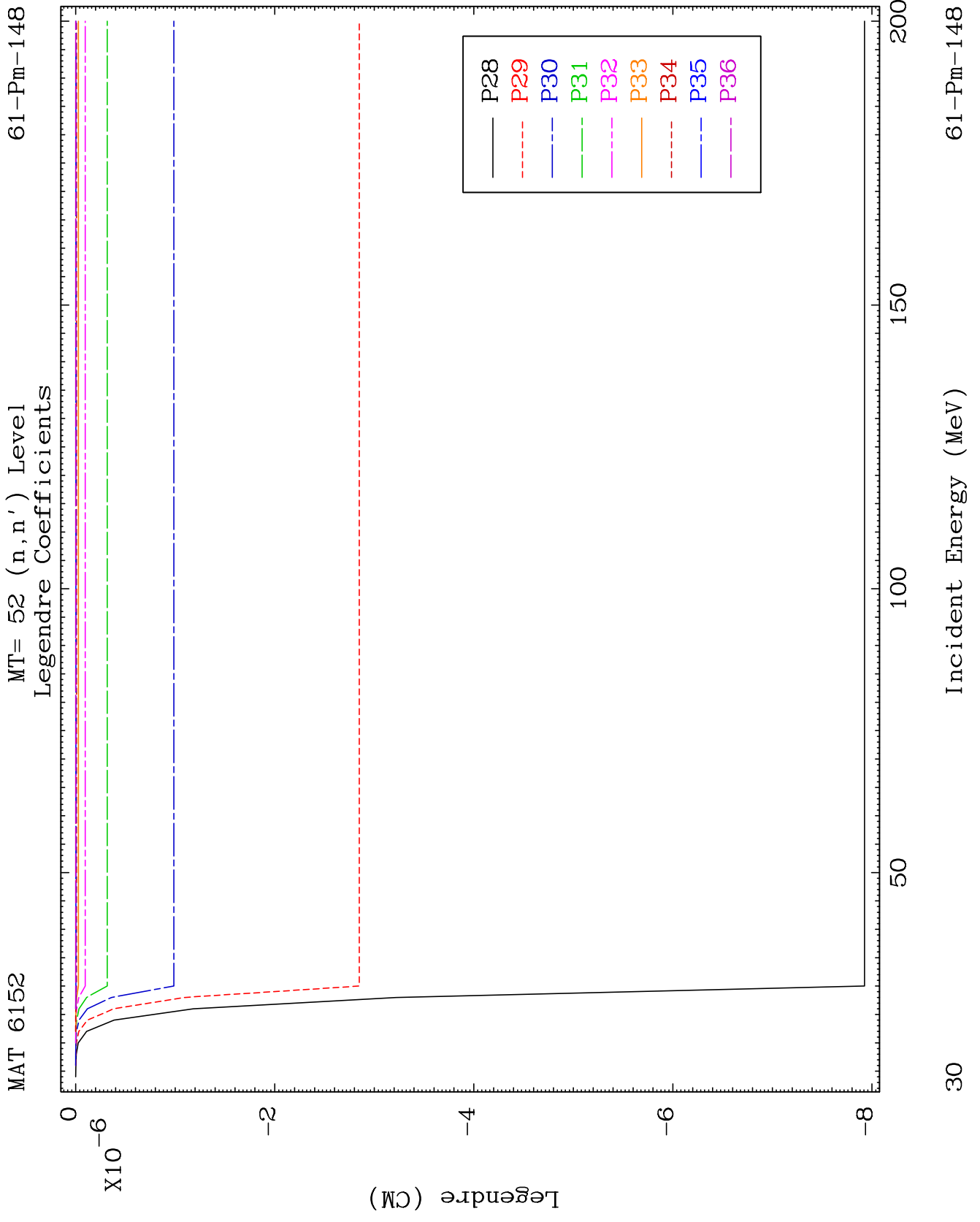


61-Pm-148

Incident Energy (MeV)

27

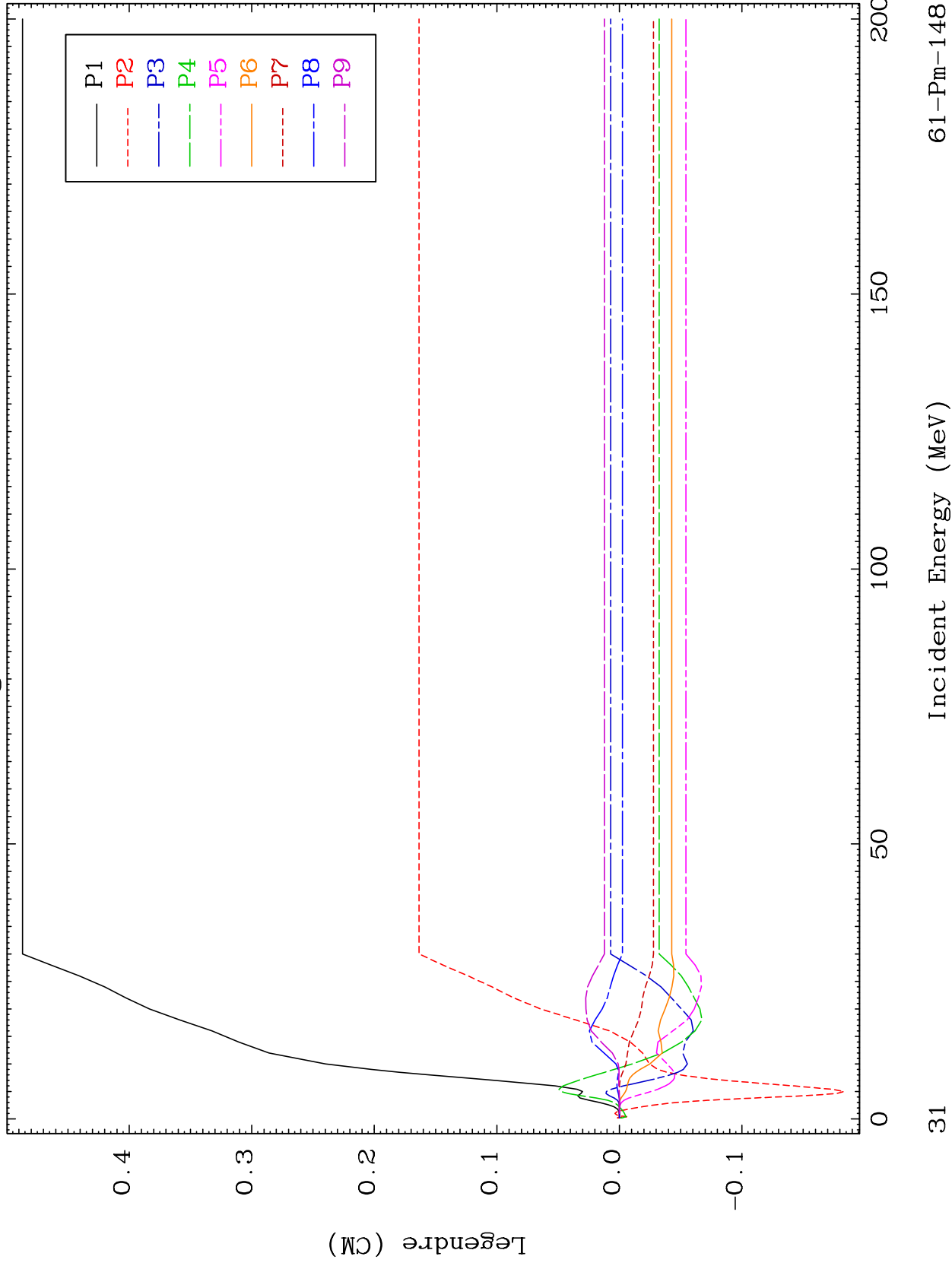




MAT 6152

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

61-Pm-148



61-Pm-148

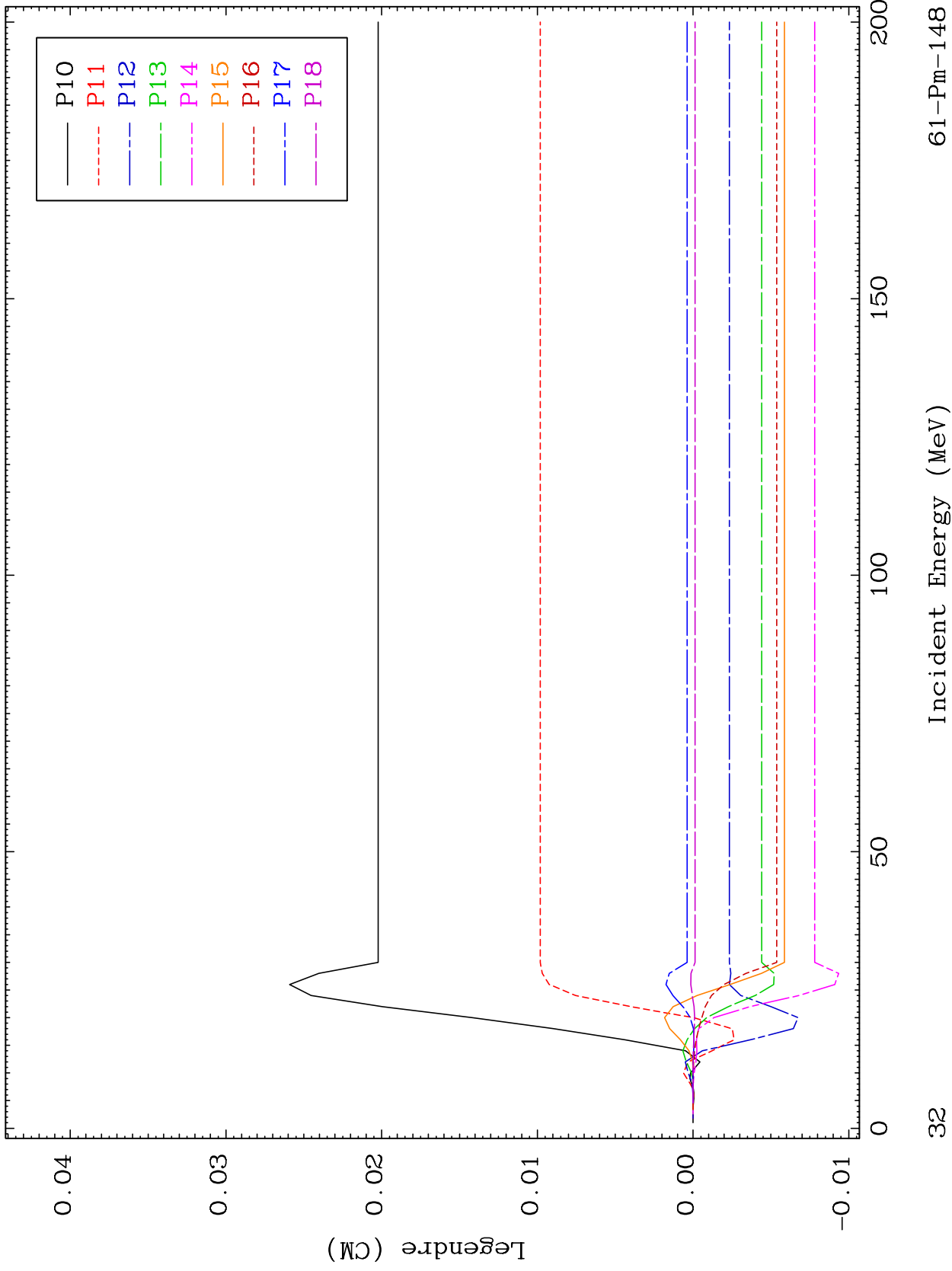
Incident Energy (MeV)

31

MAT 6152

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

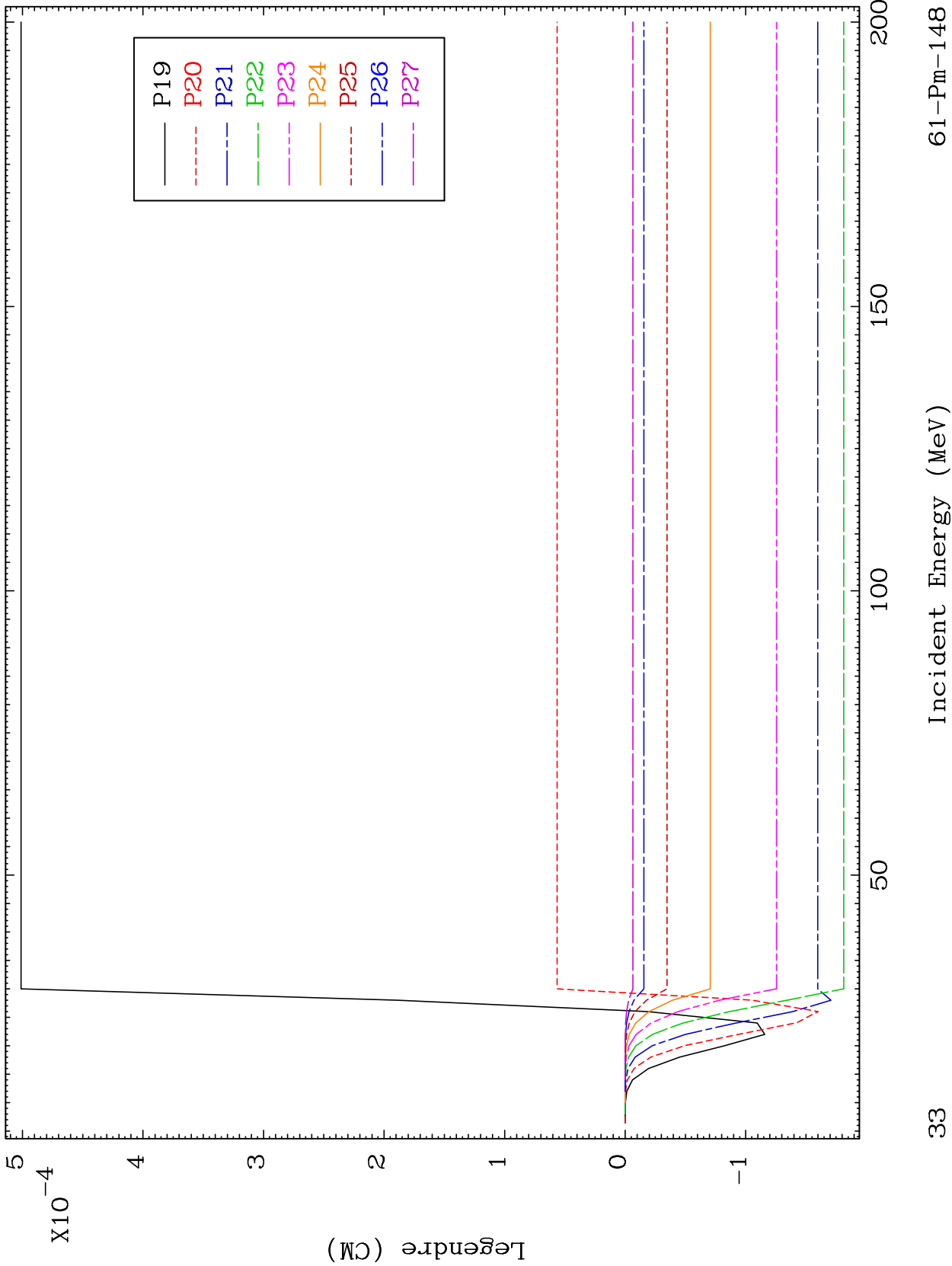
61-Pm-148

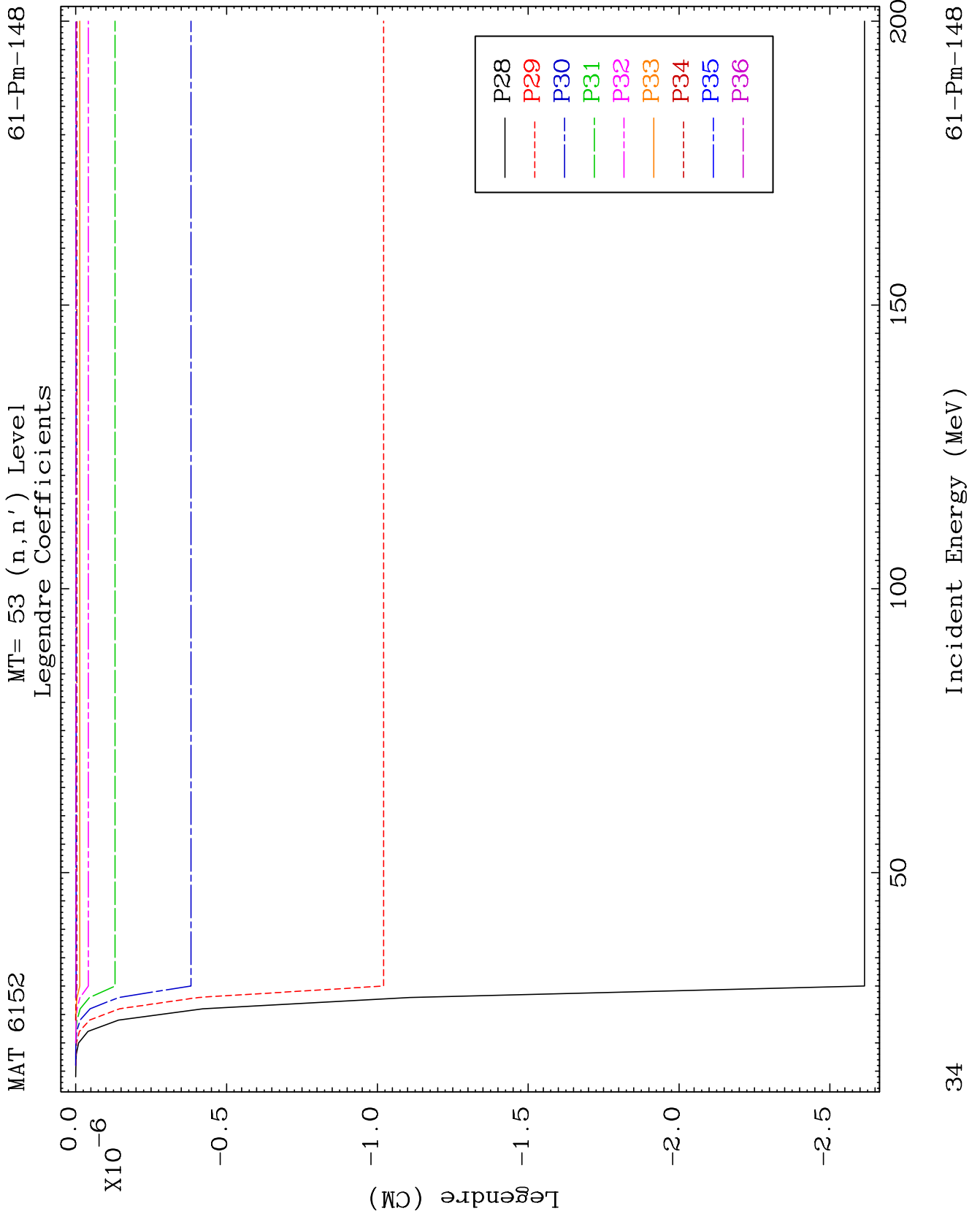


61-Pm-148

Incident Energy (MeV)

32

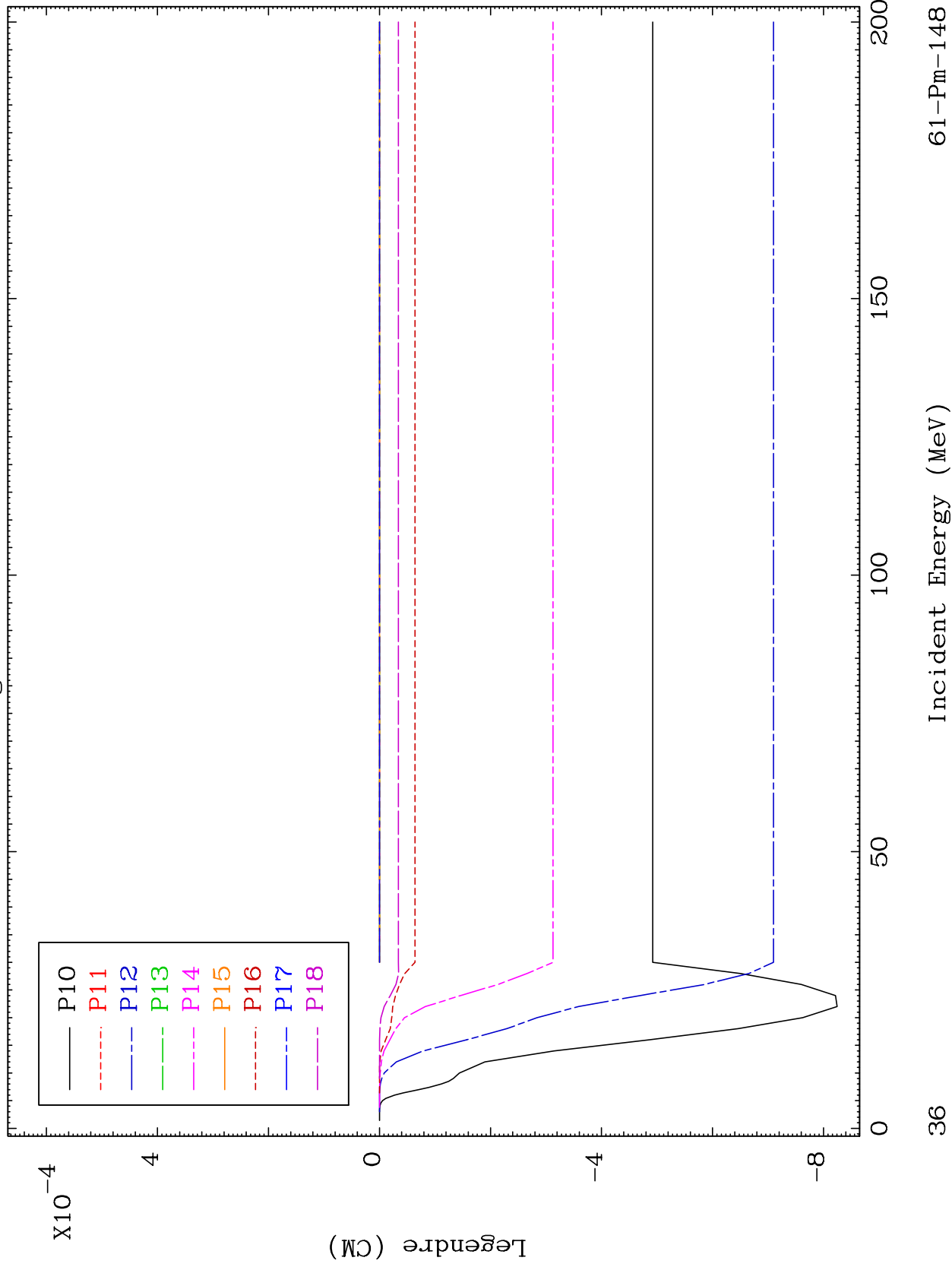


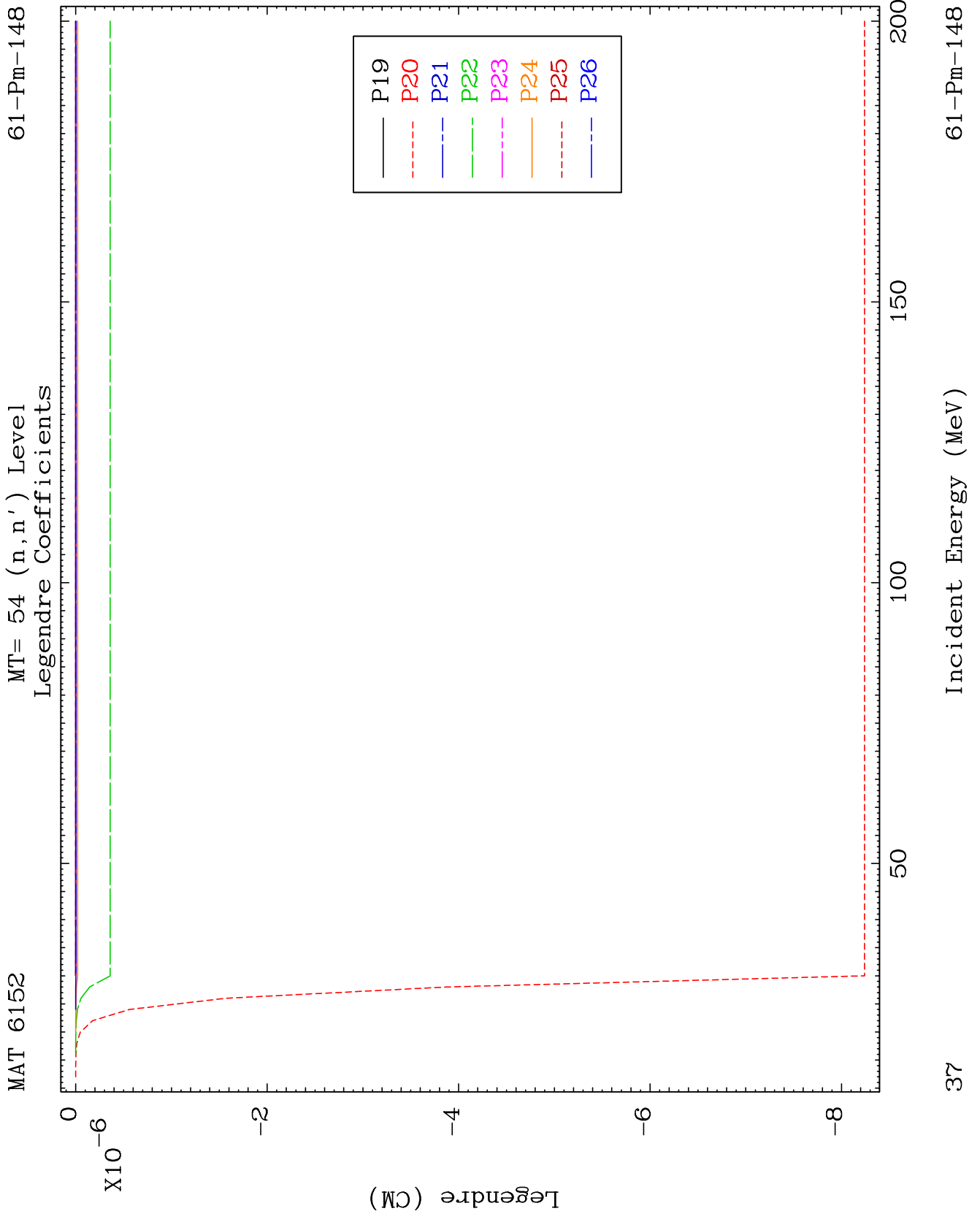


MAT 6152

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

61-Pm-148

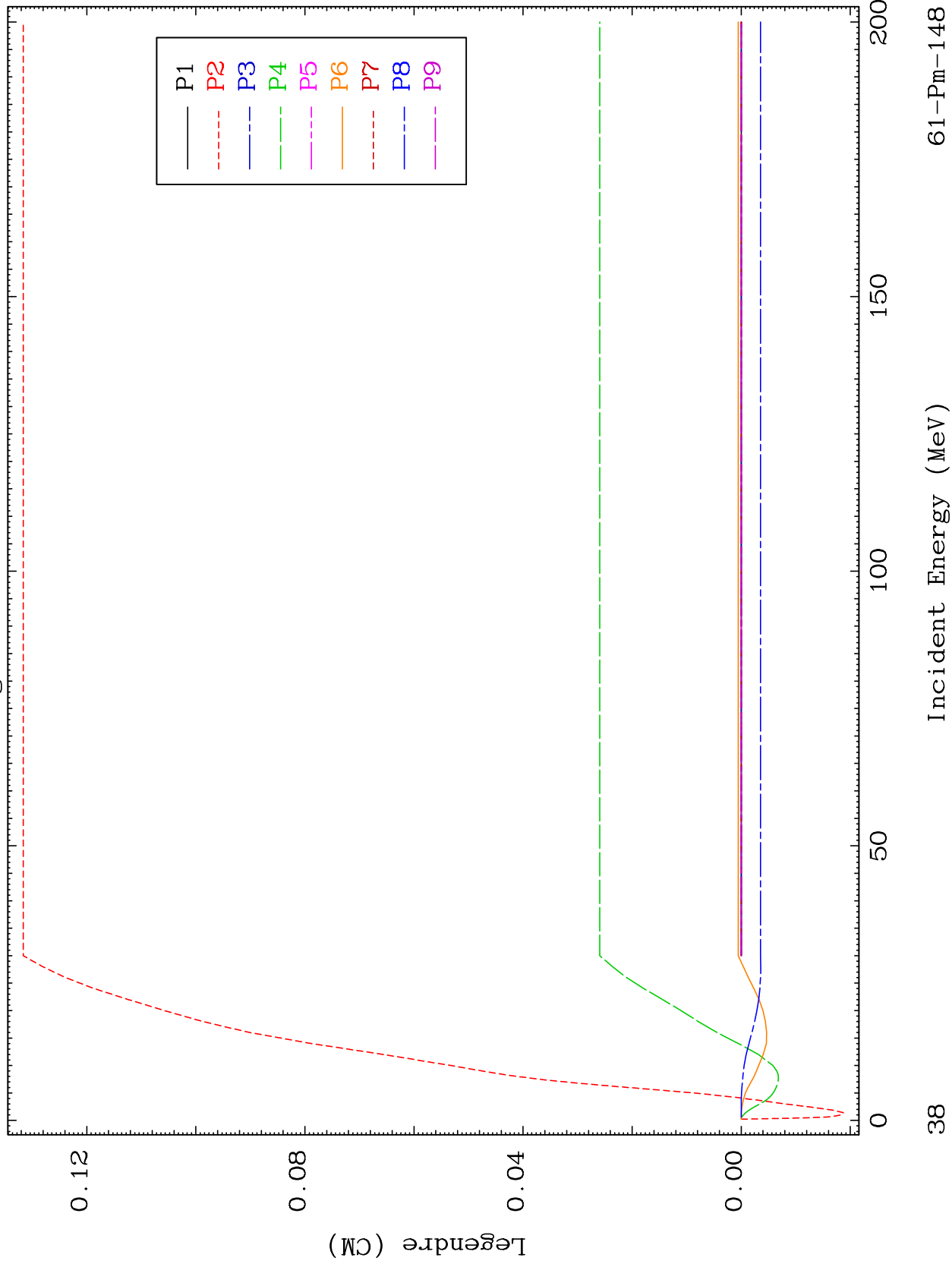




MAT 6152

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

61-Pm-148



61-Pm-148

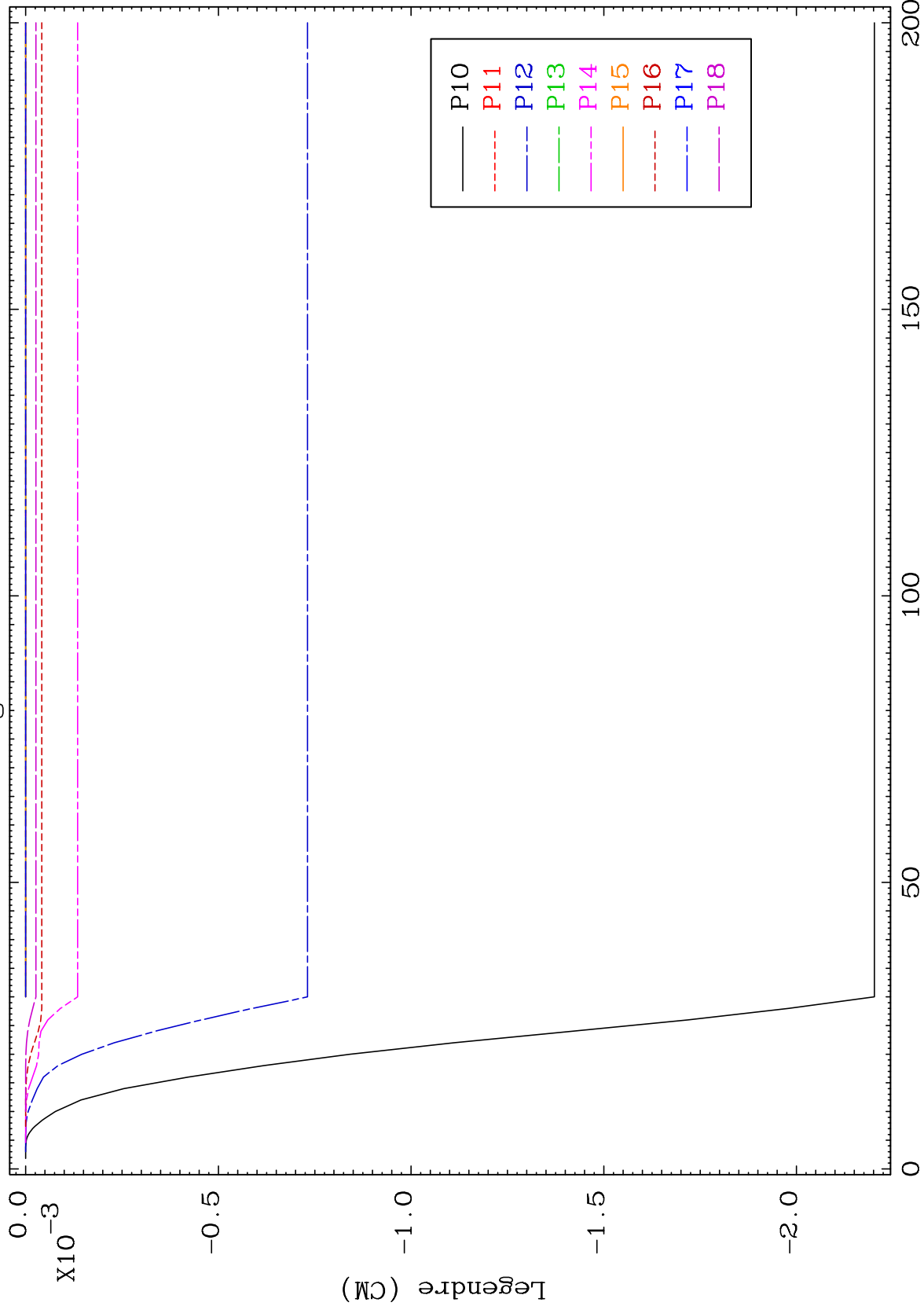
Incident Energy (MeV)

38

MAT 6152

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

61-Pm-148



39

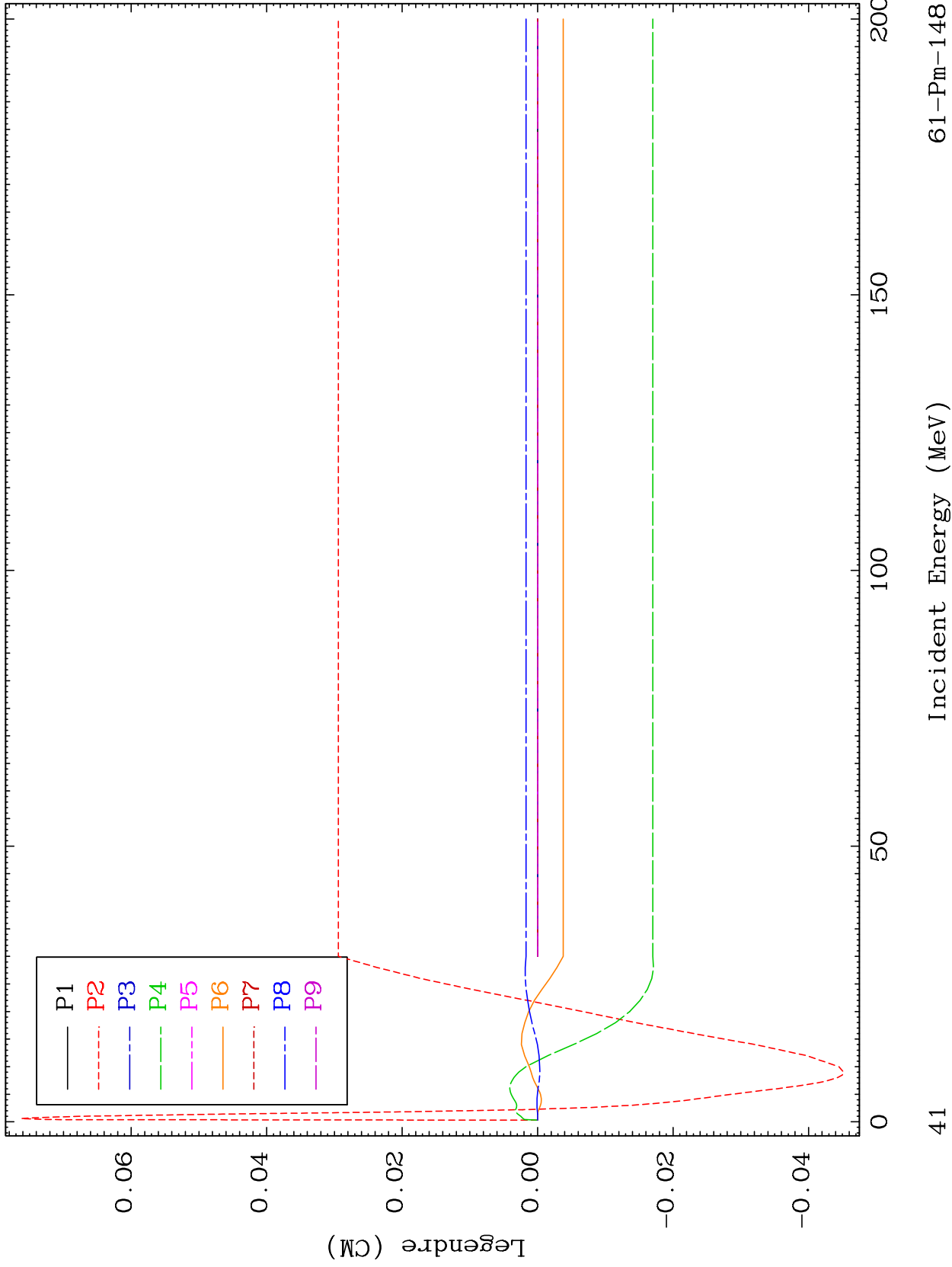
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



41

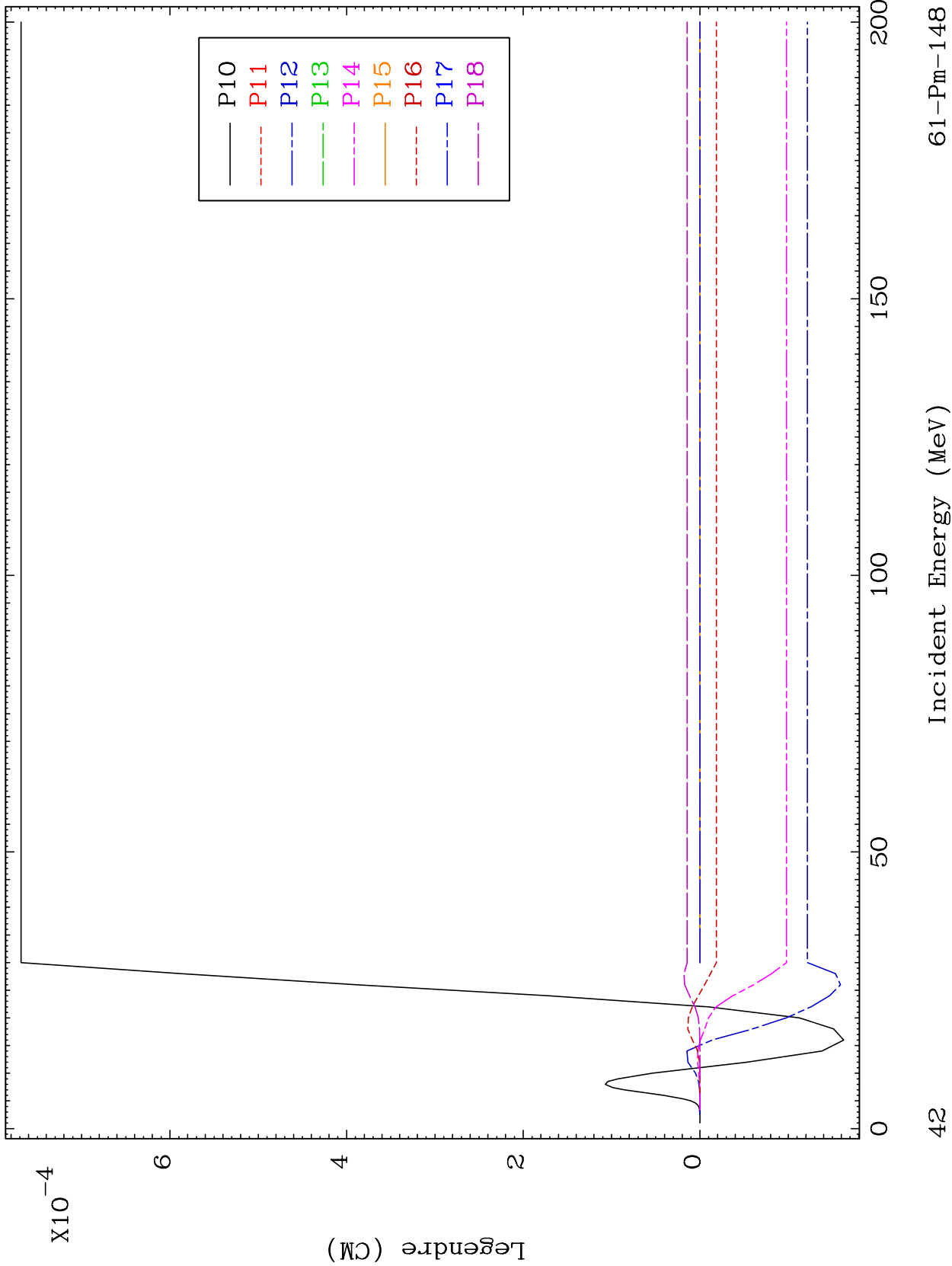
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



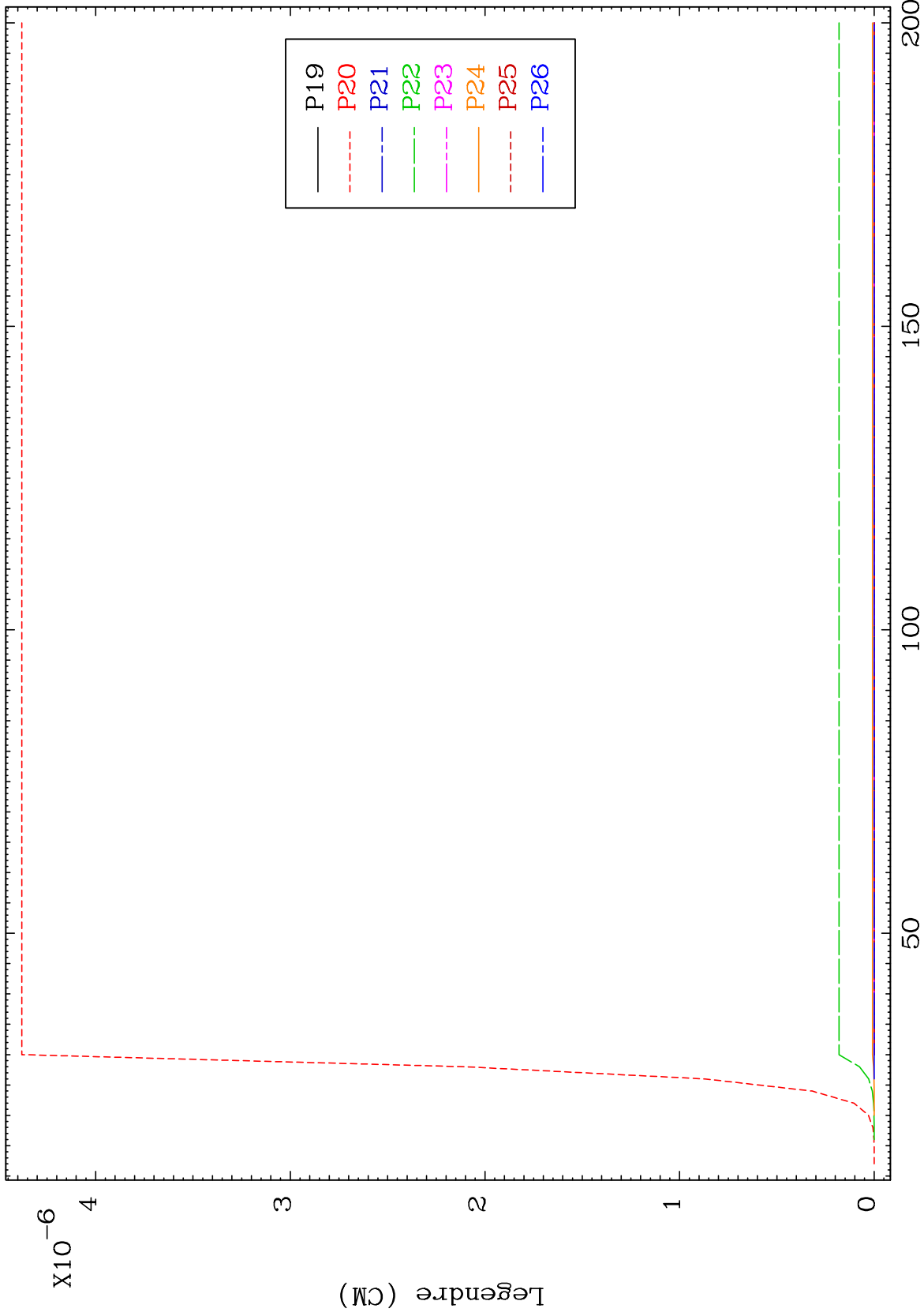
42

61-Pm-148

MAT 6152

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

61-Pm-148



43

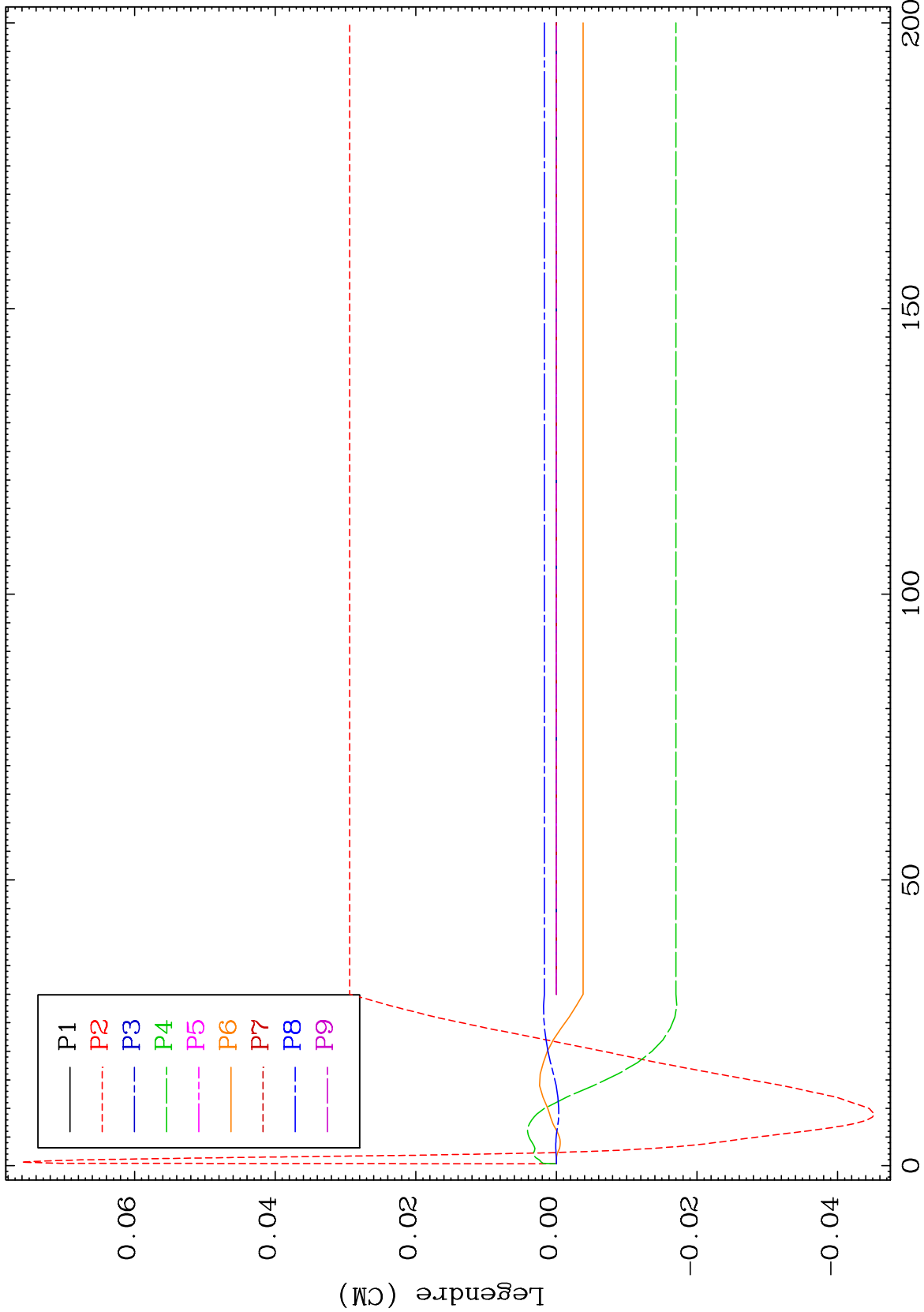
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



61-Pm-148

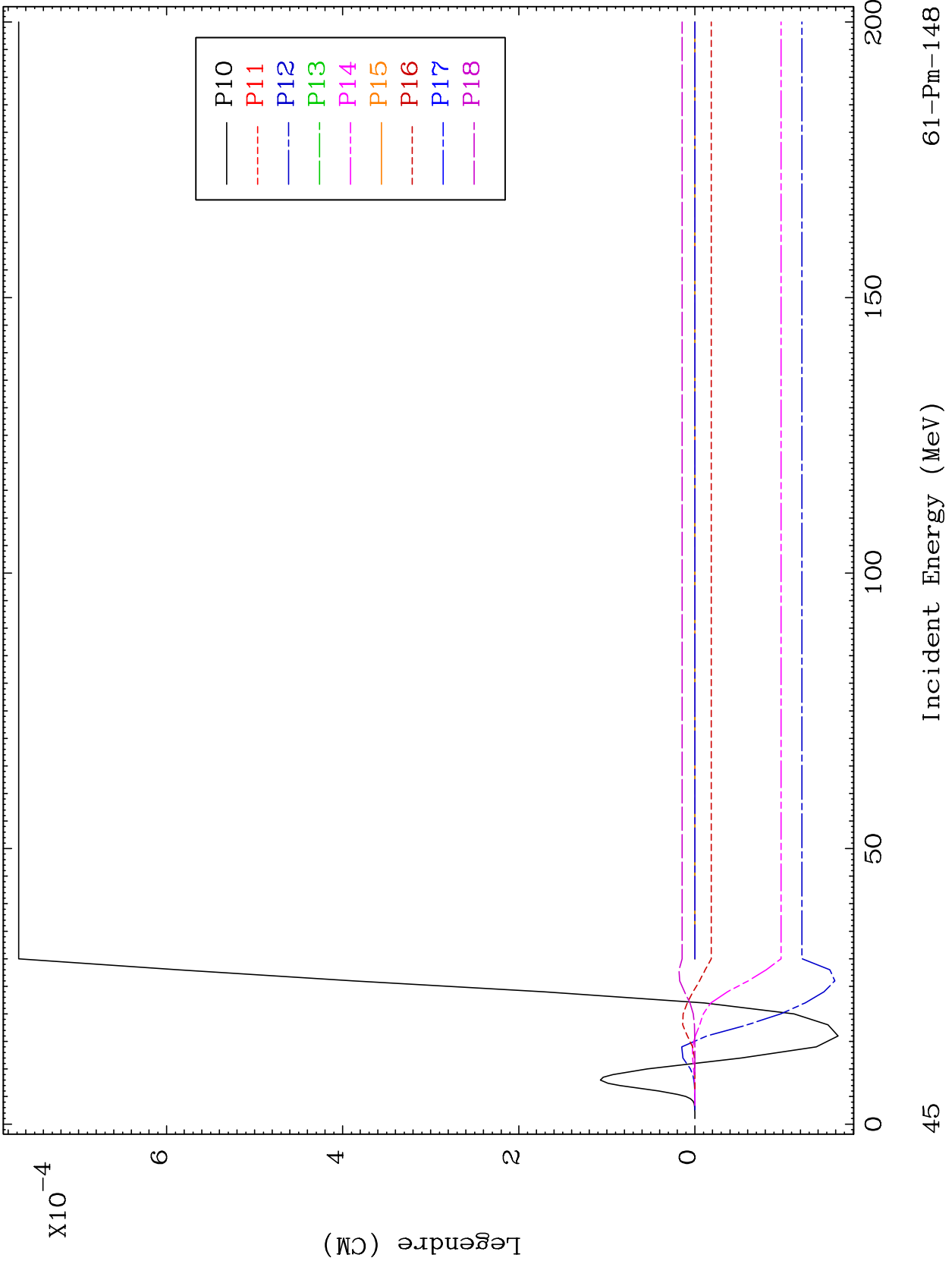
Incident Energy (MeV)

44

MAT 6152

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

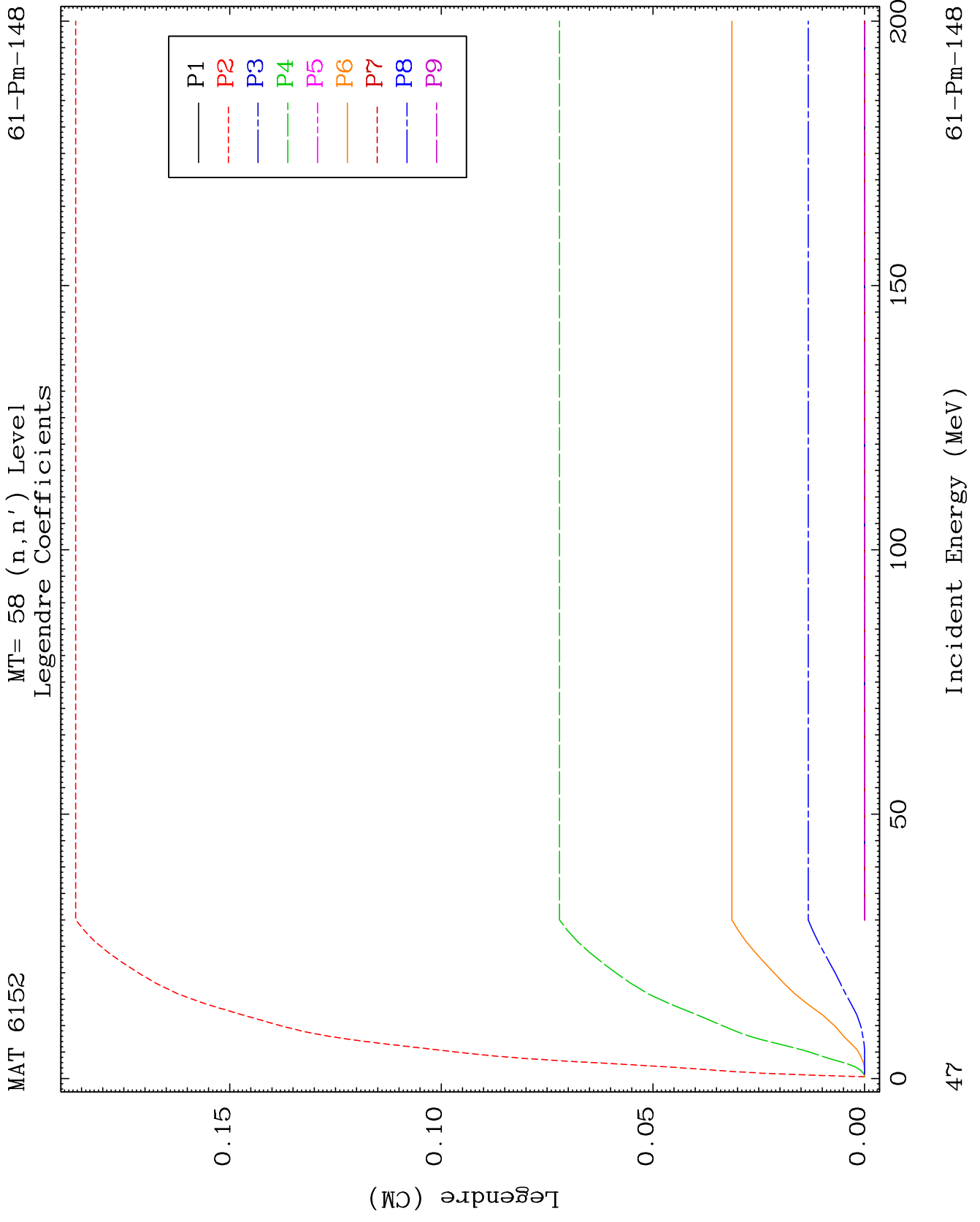
61-Pm-148



61-Pm-148

Incident Energy (MeV)

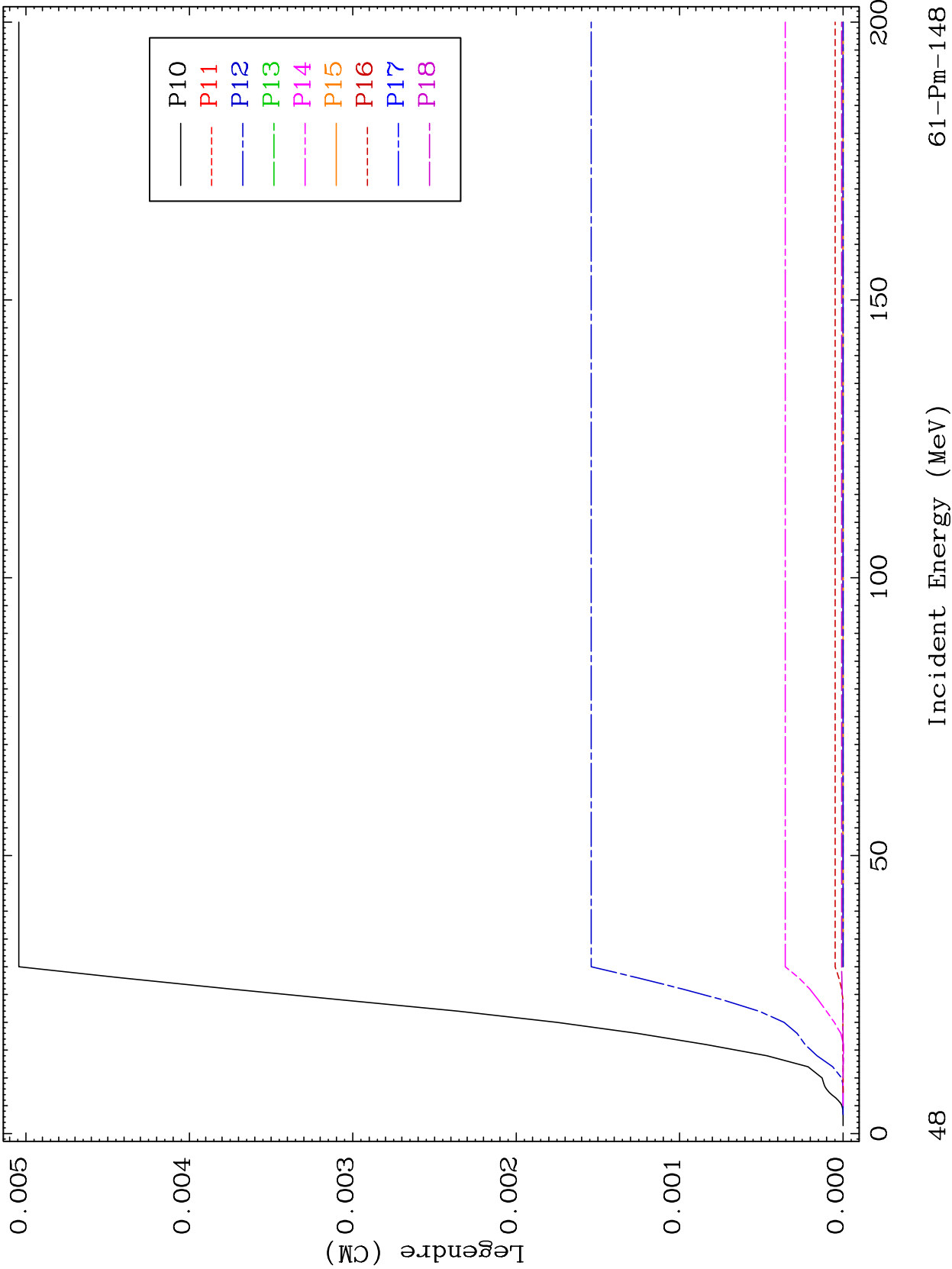
45



MAT 6152

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

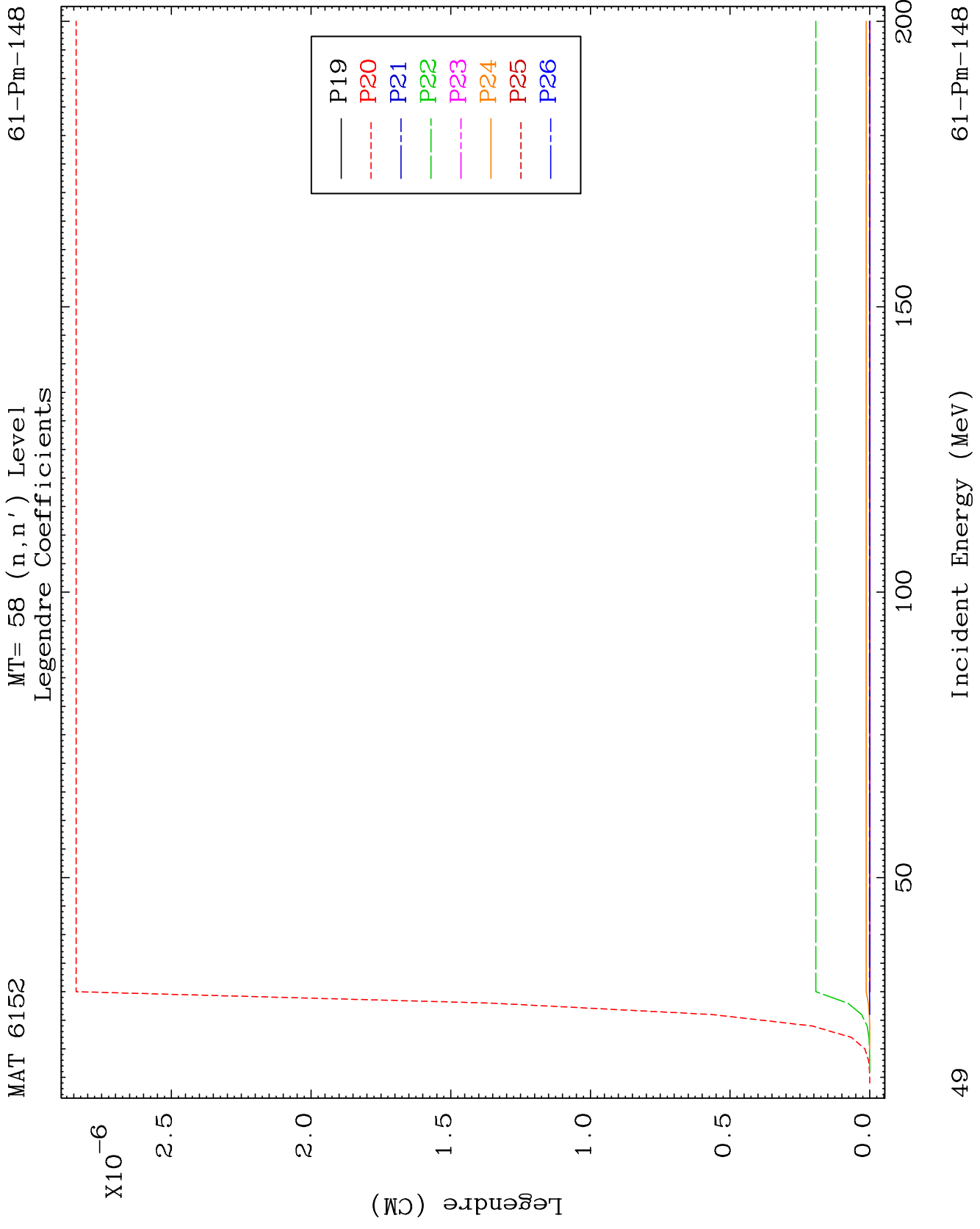
61-Pm-148



61-Pm-148

Incident Energy (MeV)

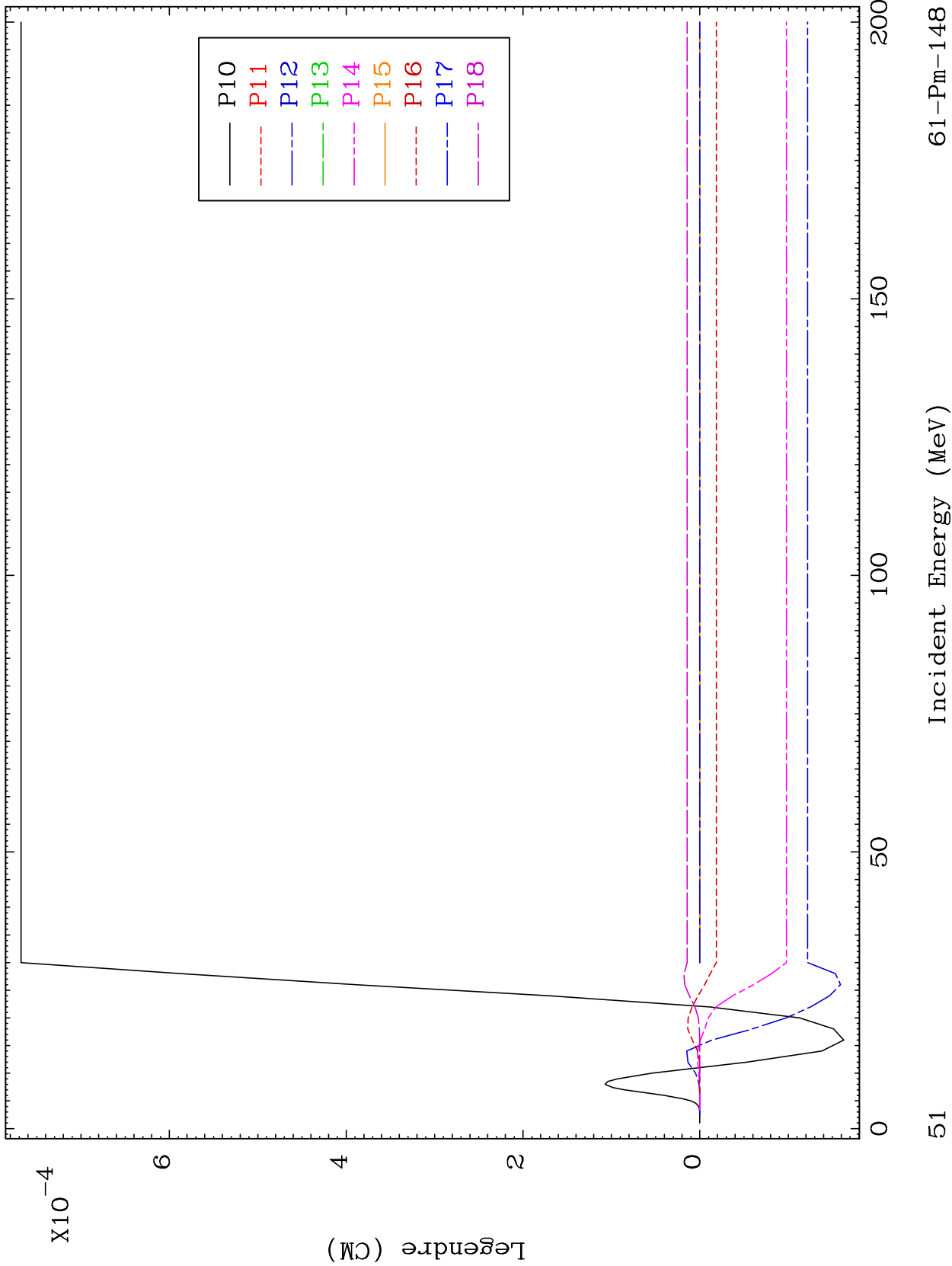
48



MAT 6152

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

61-Pm-148



51

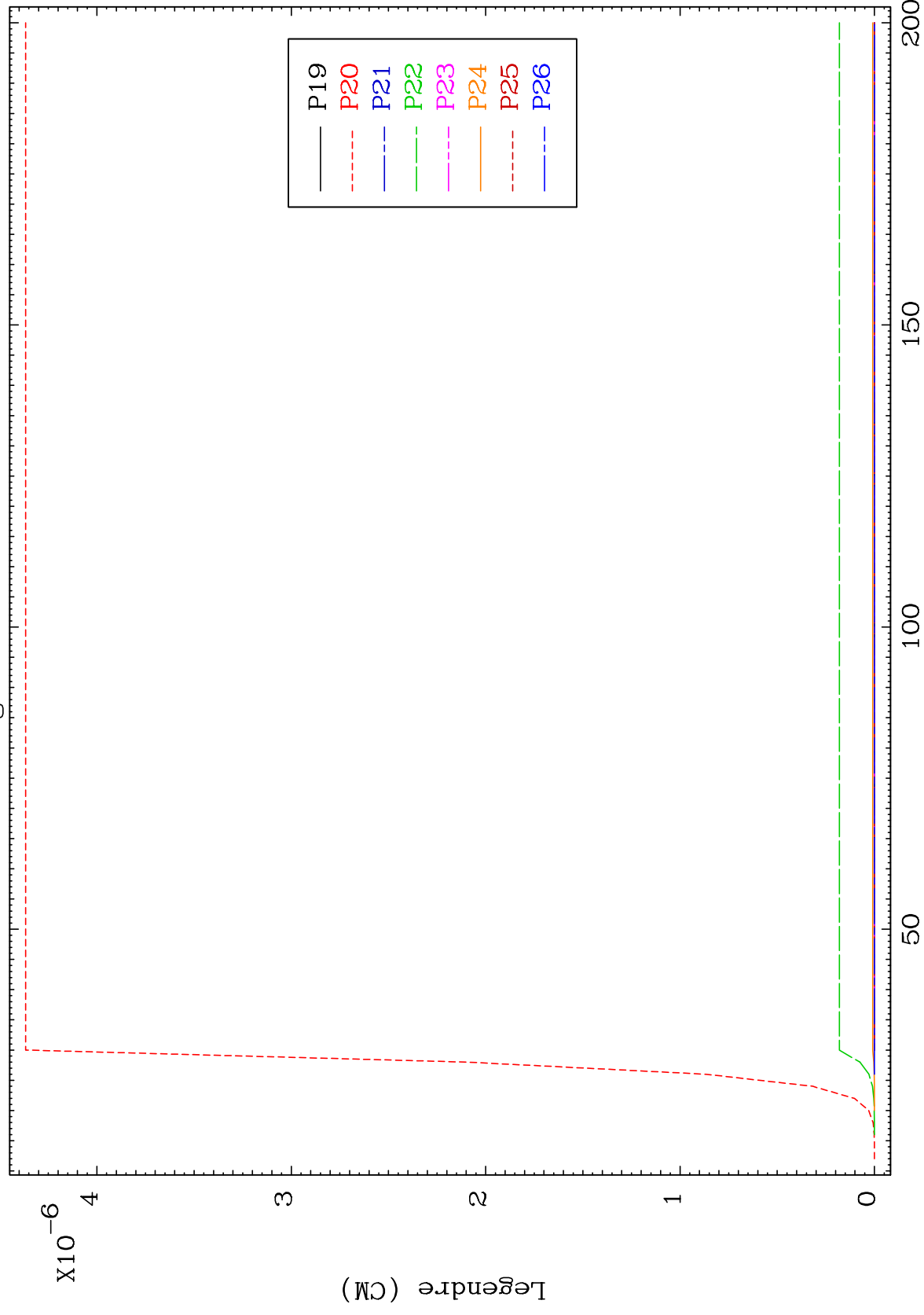
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



52

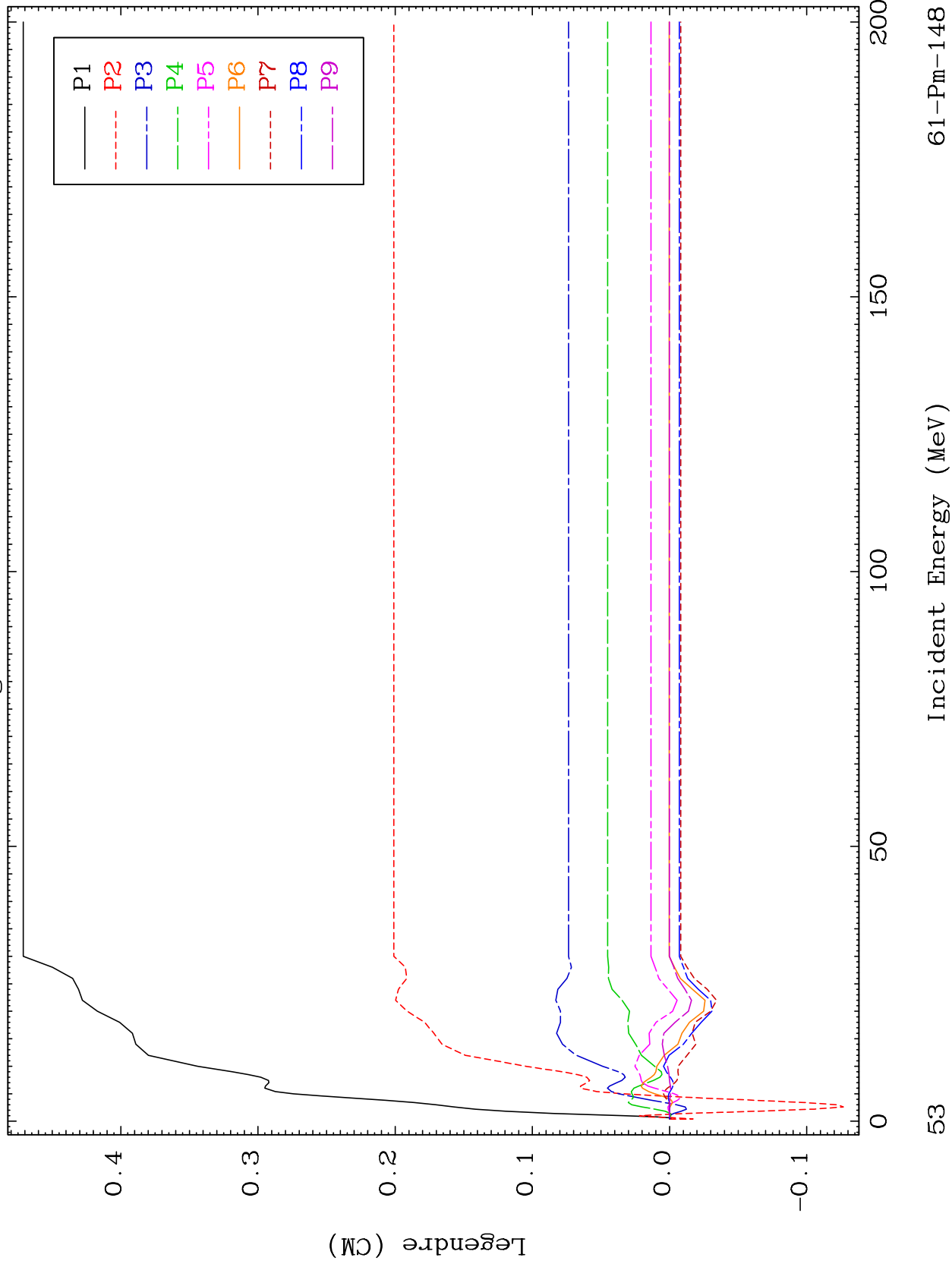
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



61-Pm-148

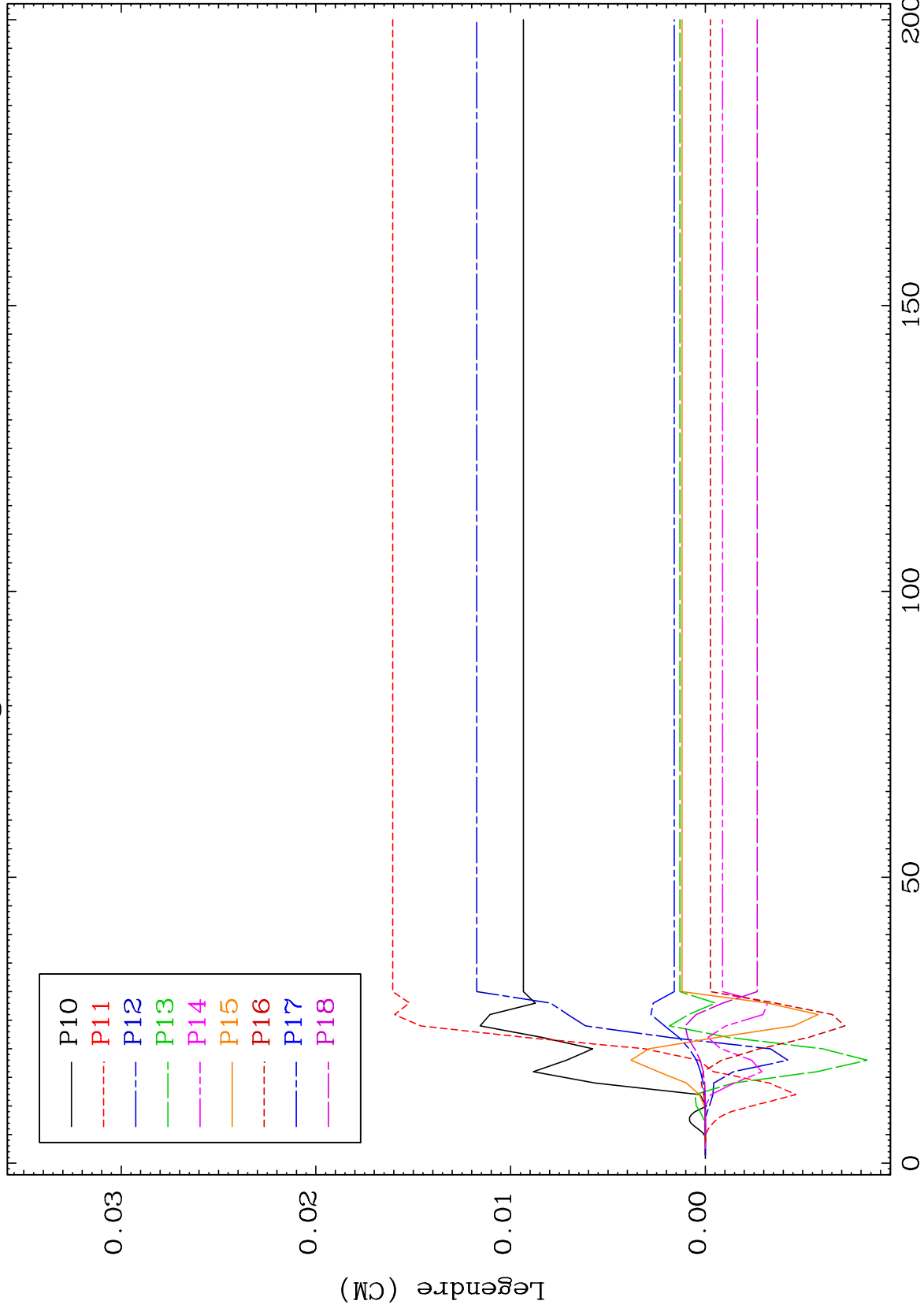
Incident Energy (MeV)

53

MAT 6152

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

61-Pm-148



54

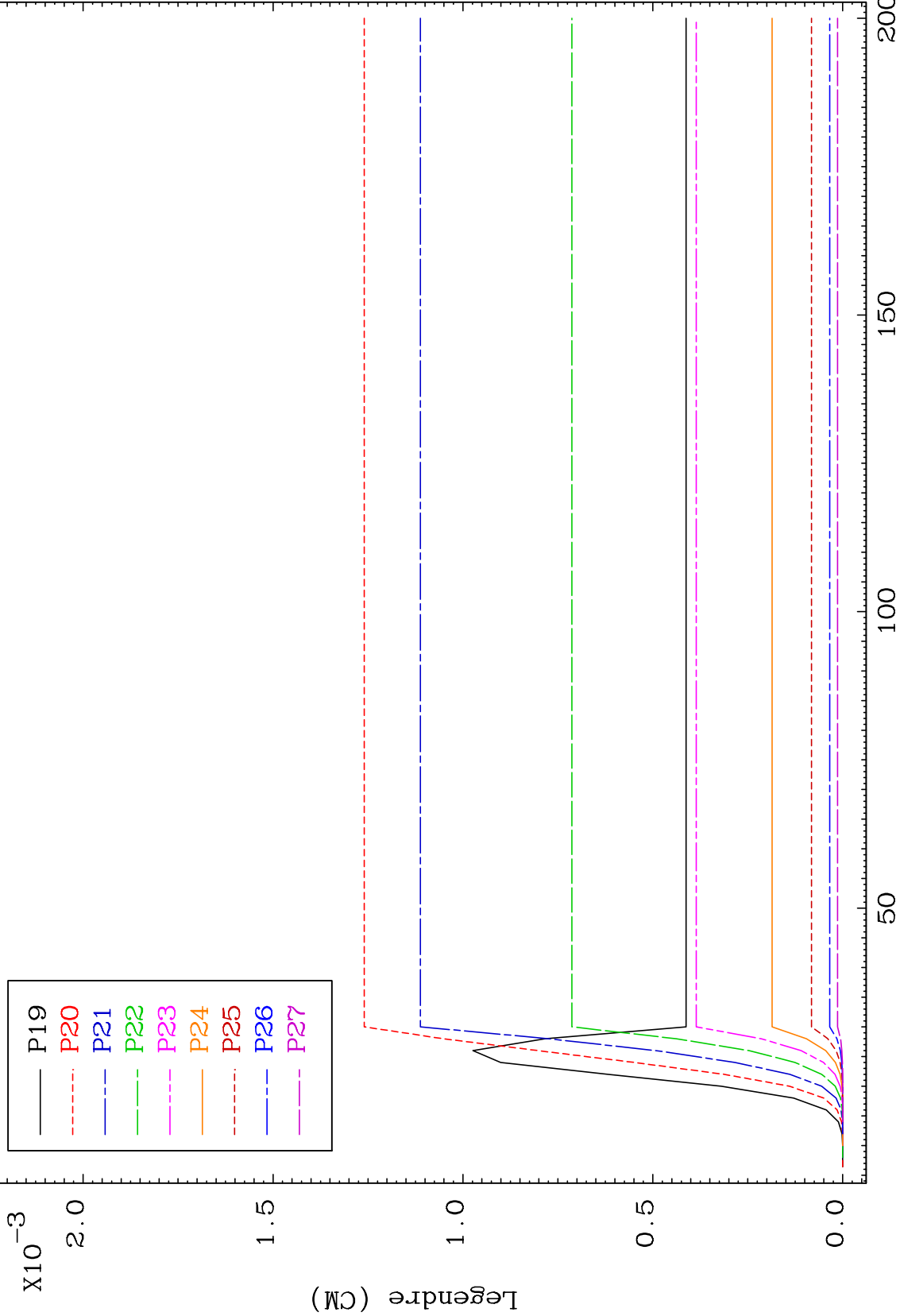
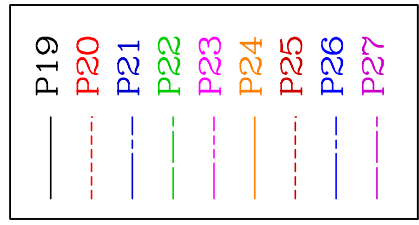
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



55

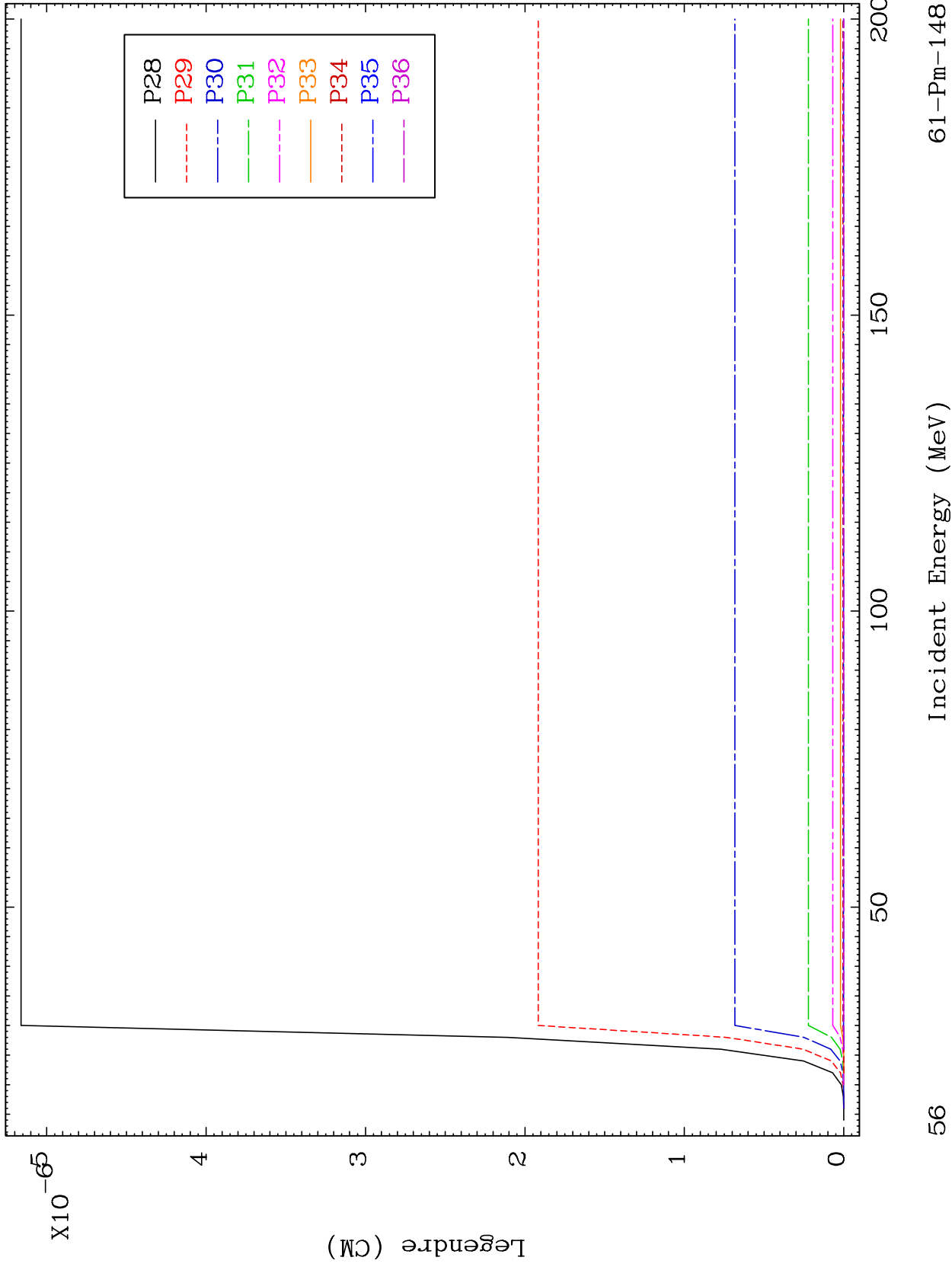
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

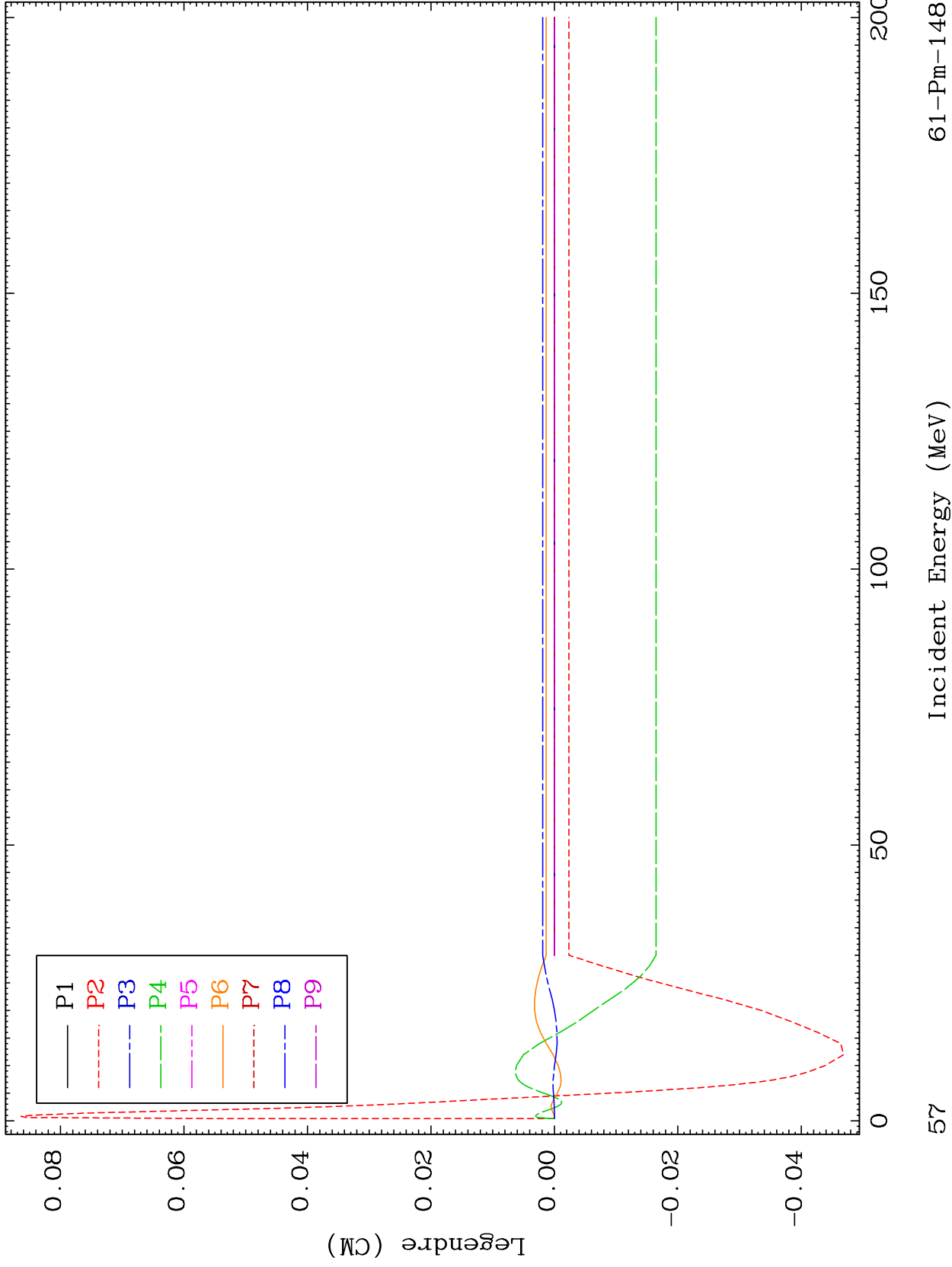
61-Pm-148



MAT 6152

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

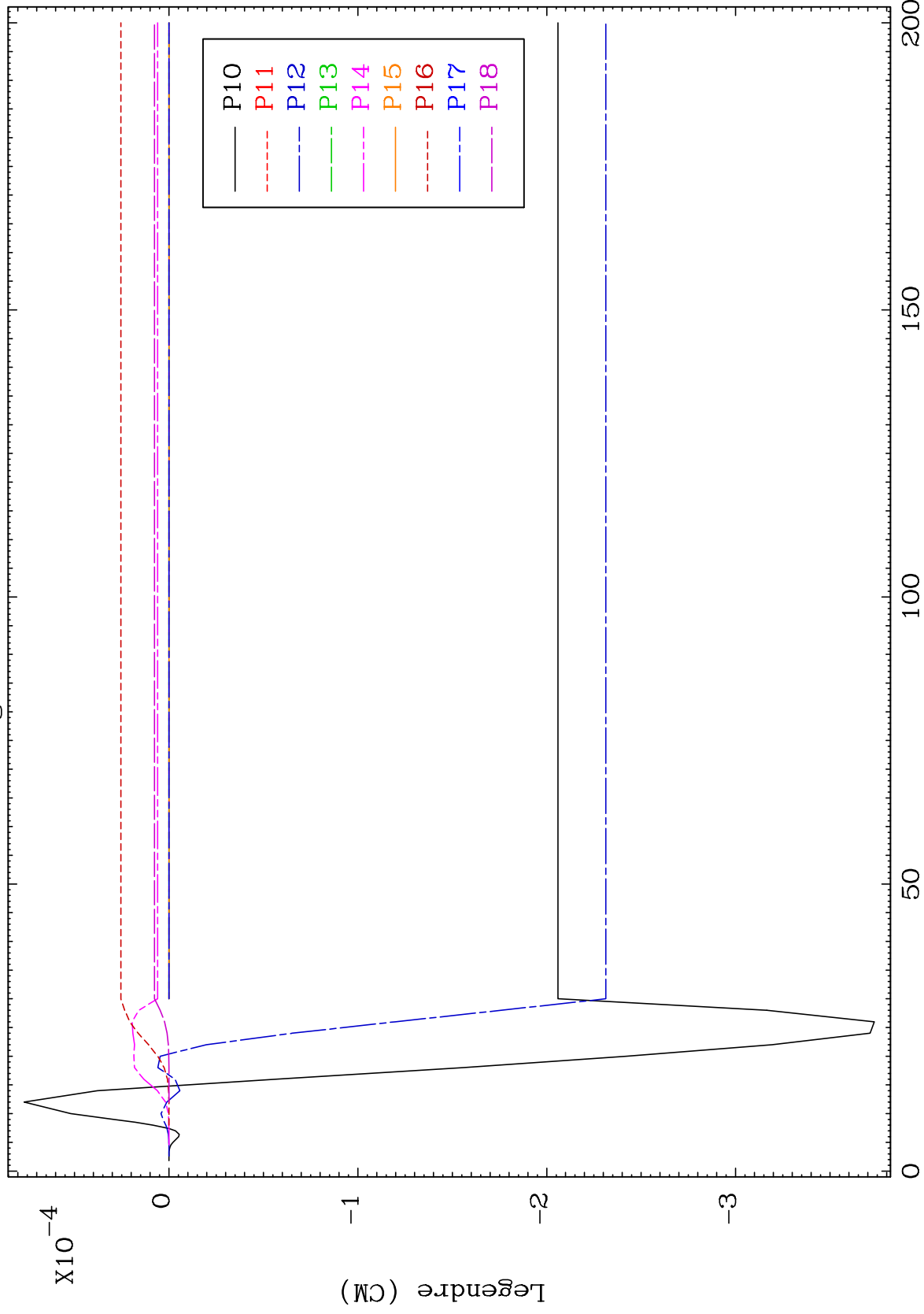
61-Pm-148



MAT 6152

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

61-Pm-148



58

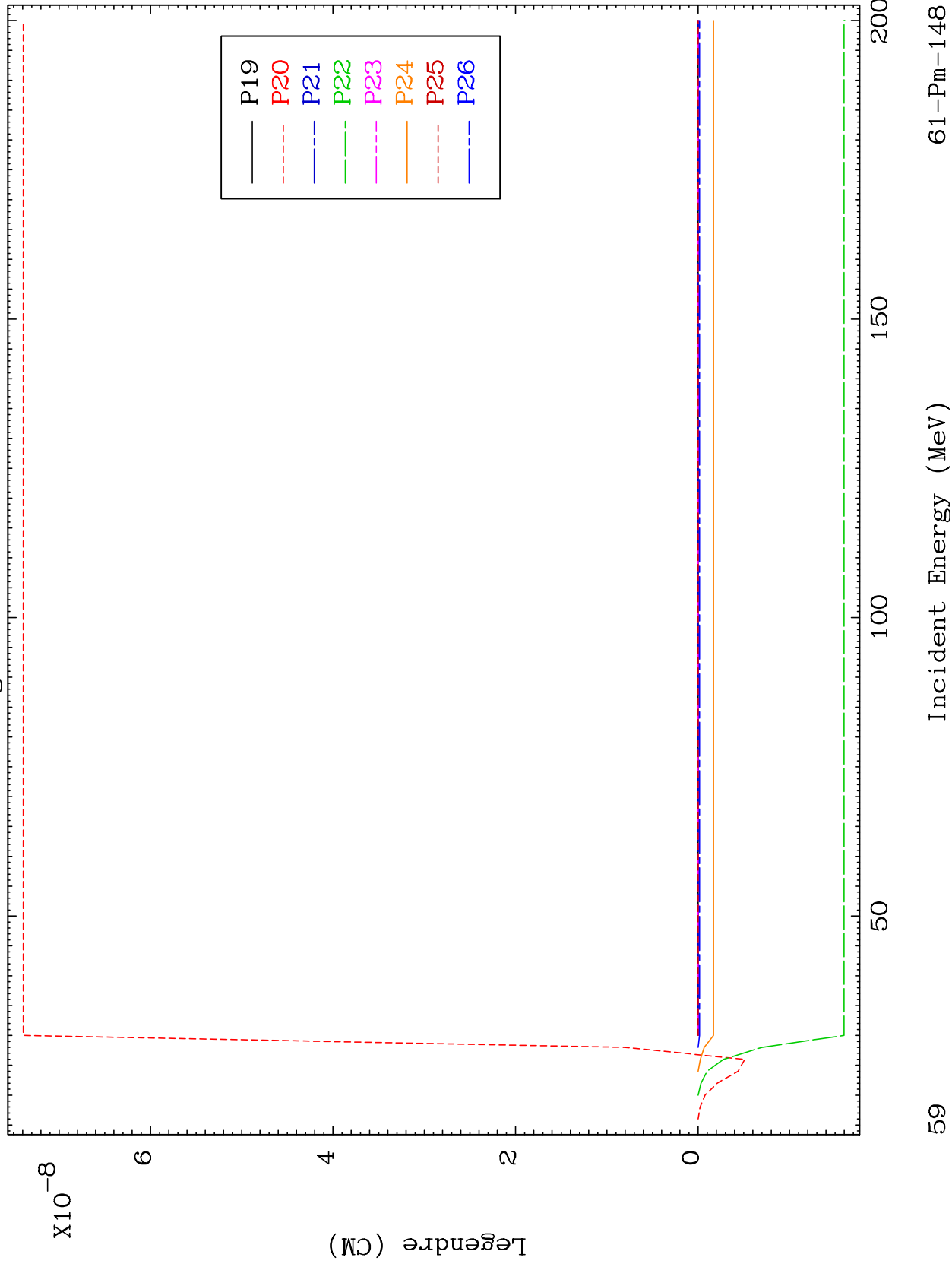
61-Pm-148

61-Pm-148

MAT 6152

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

61-Pm-148



59

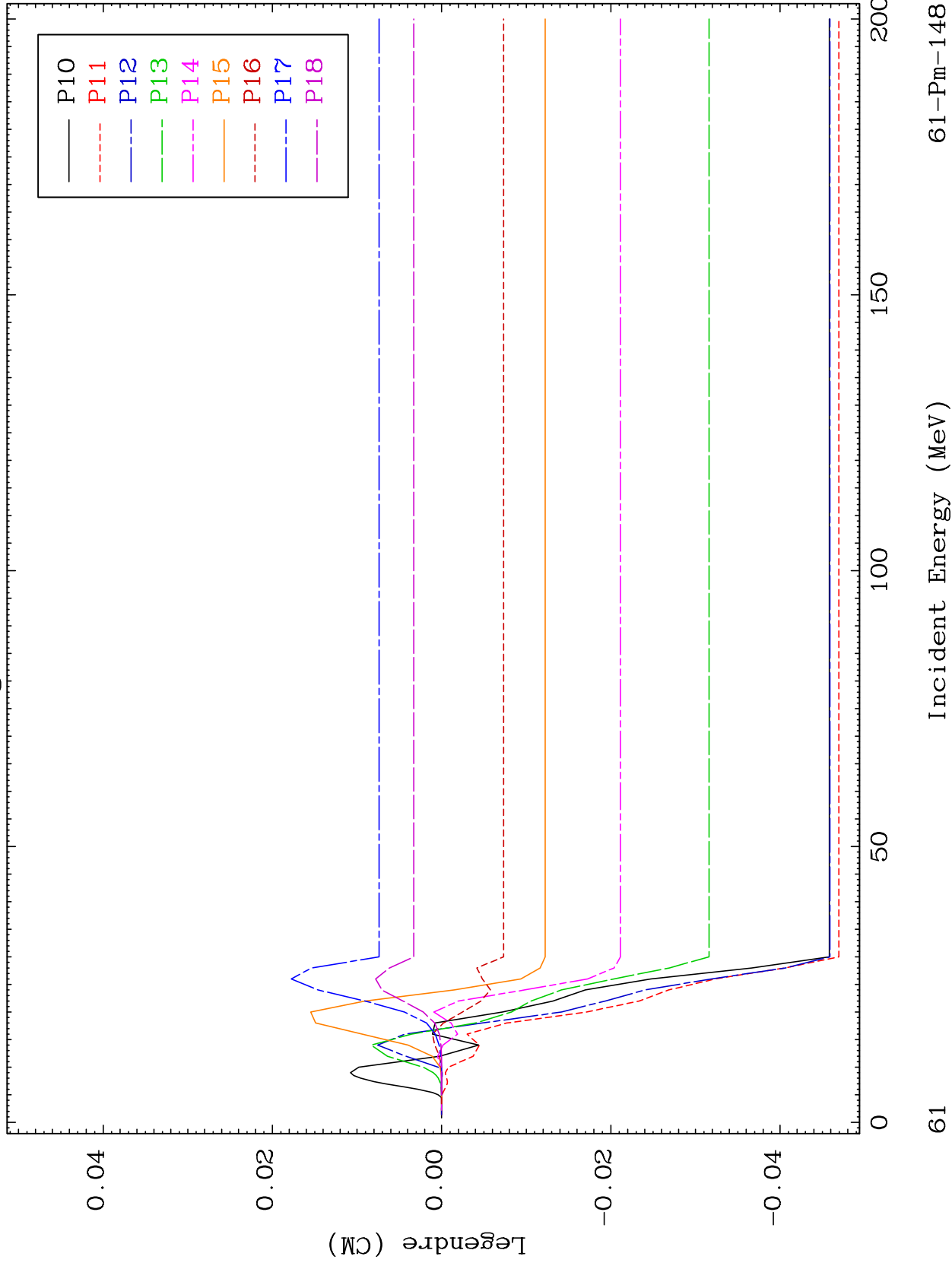
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



61-Pm-148

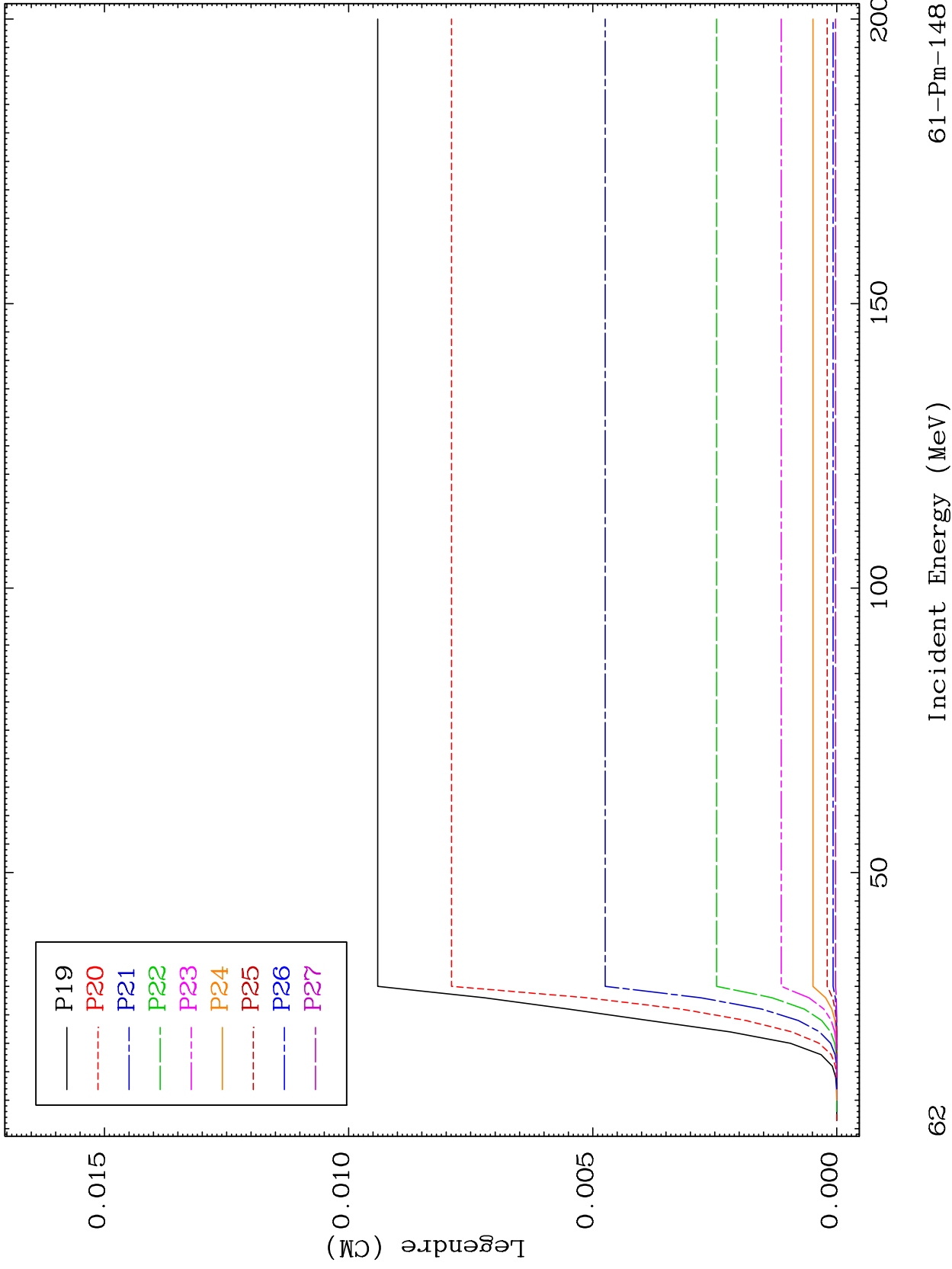
Incident Energy (MeV)

61

MAT 6152

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

61-Pm-148



62

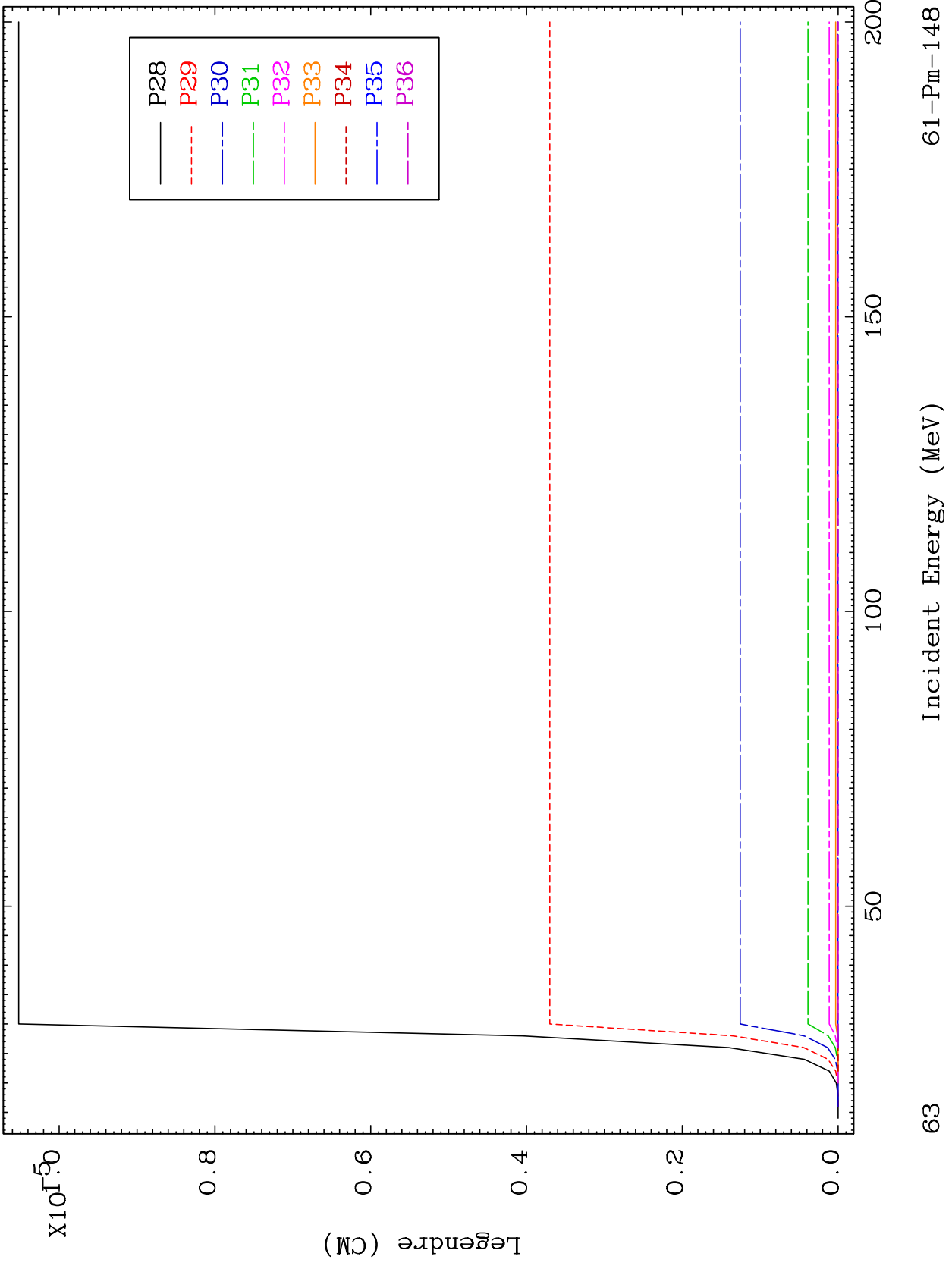
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



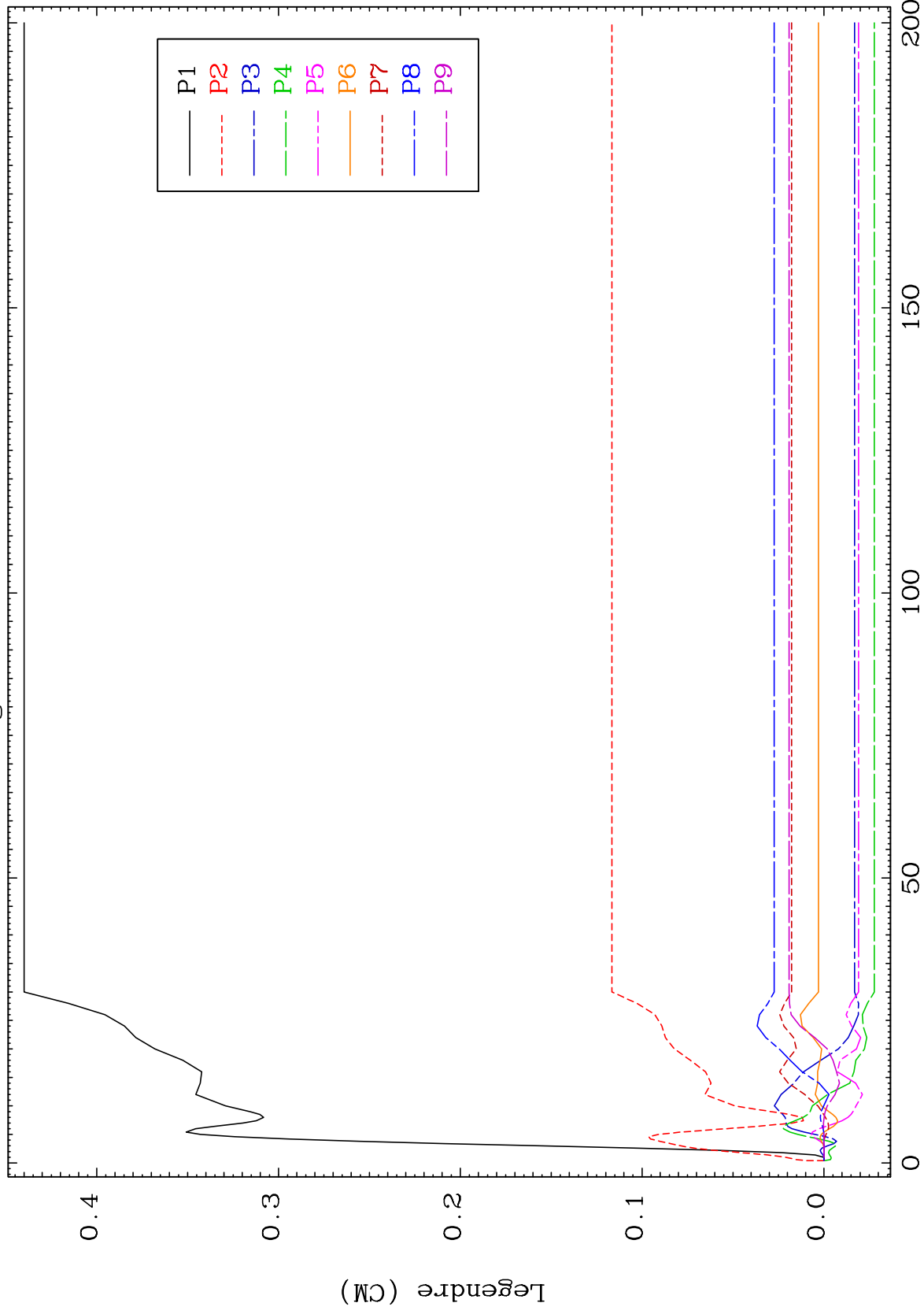
63

61-Pm-148

MAT 6152

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

61-Pm-148



64

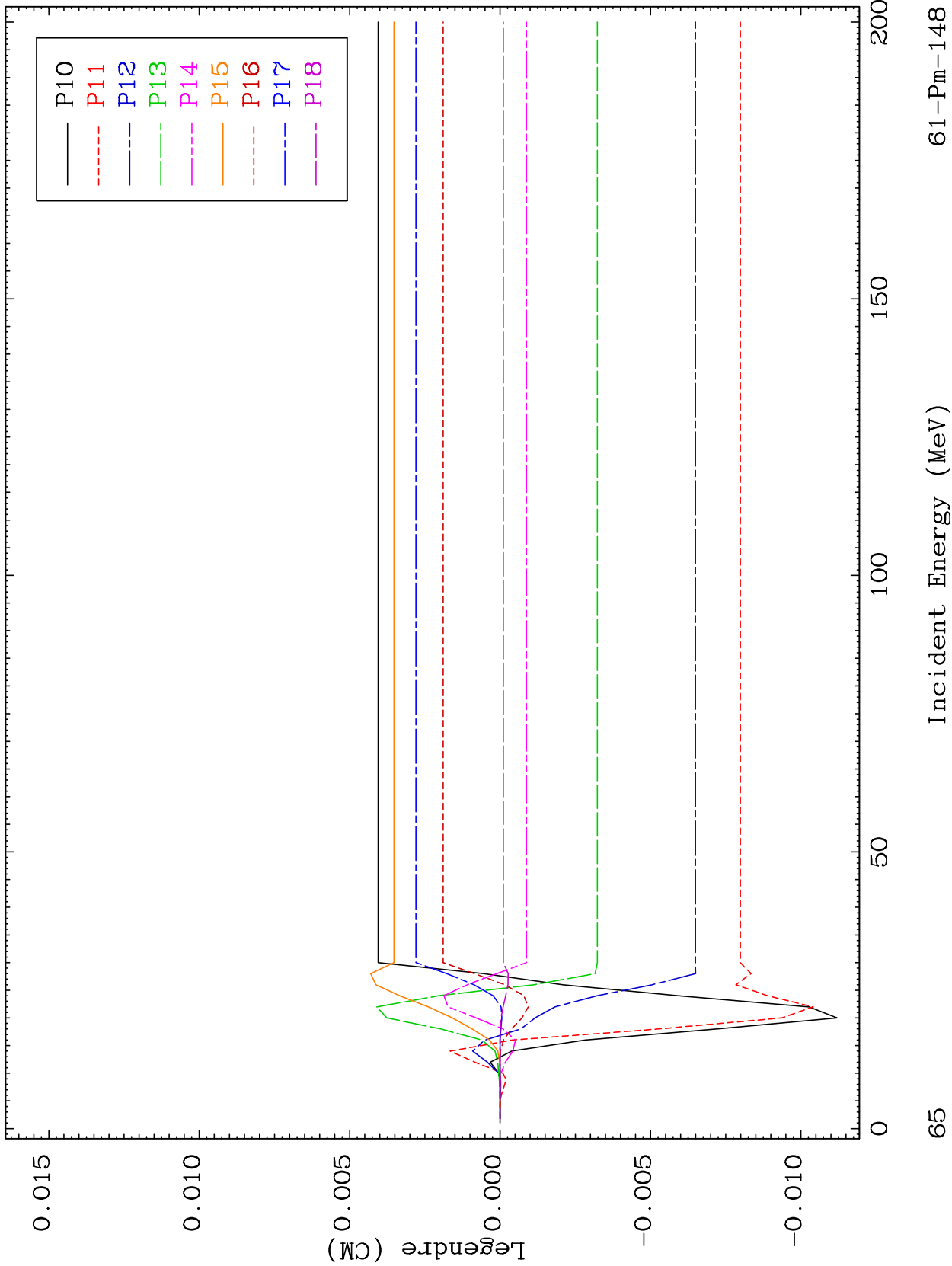
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

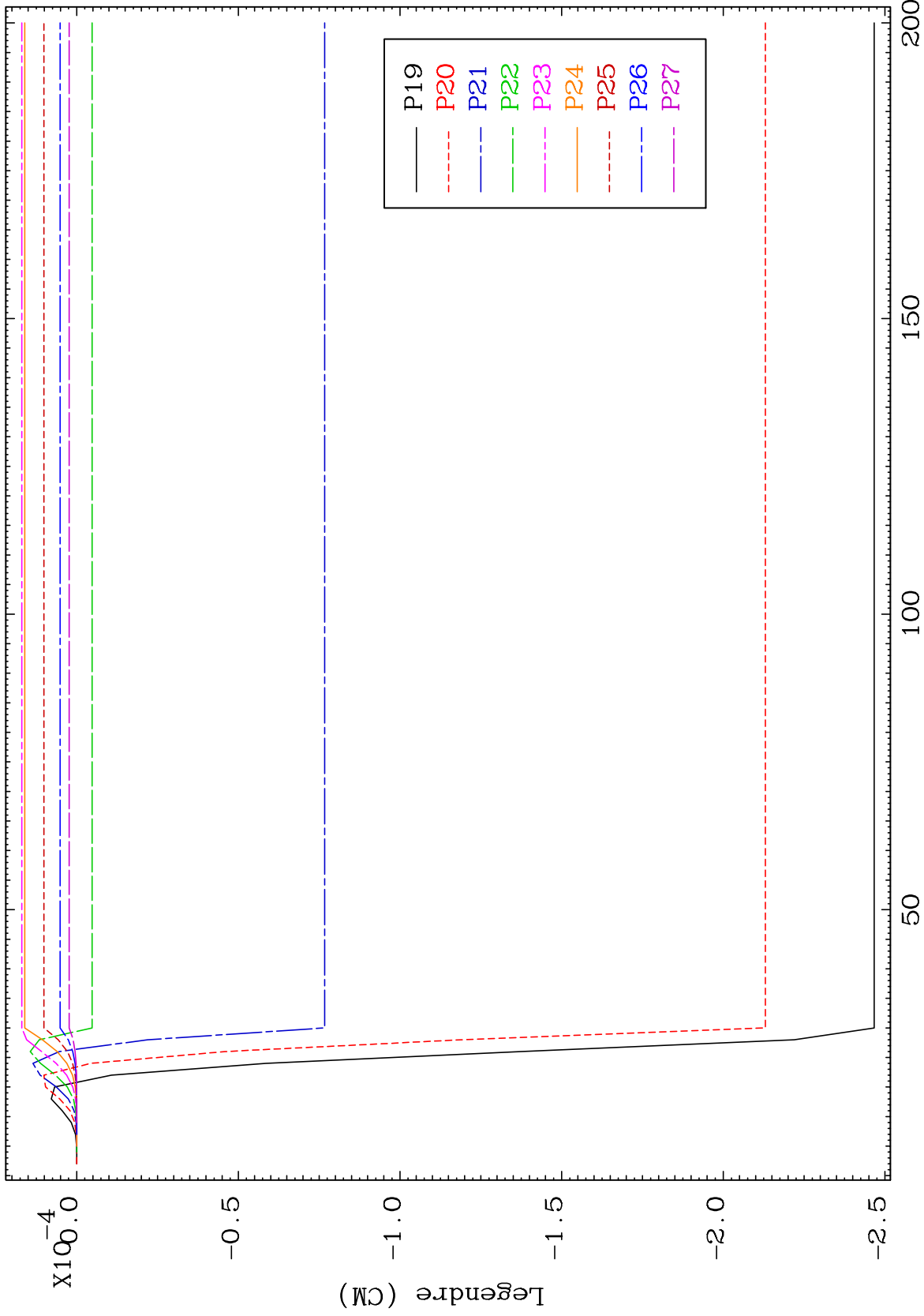
61-Pm-148



61-Pm-148

Incident Energy (MeV)

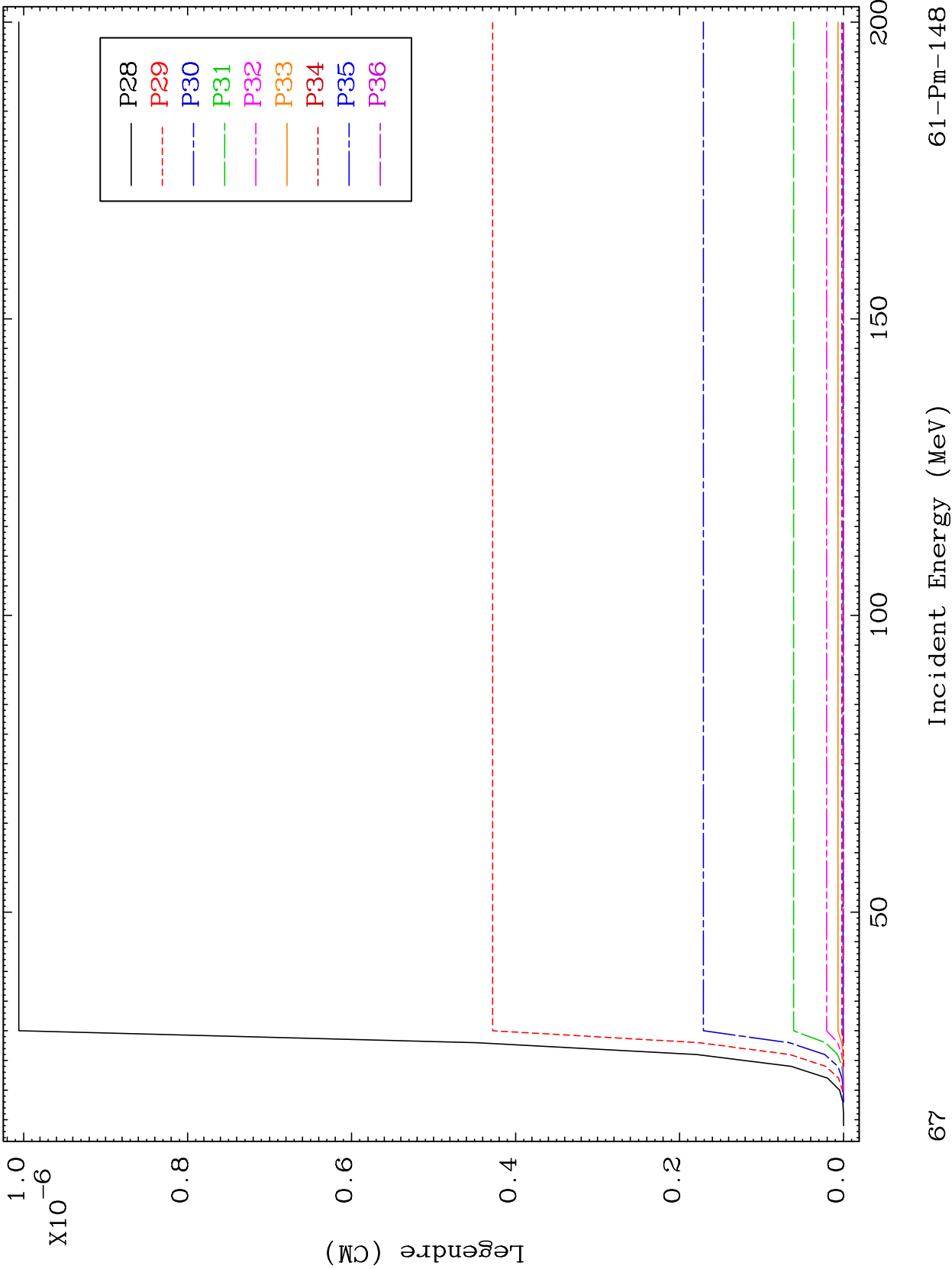
65



MAT 6152

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

61-Pm-148



67

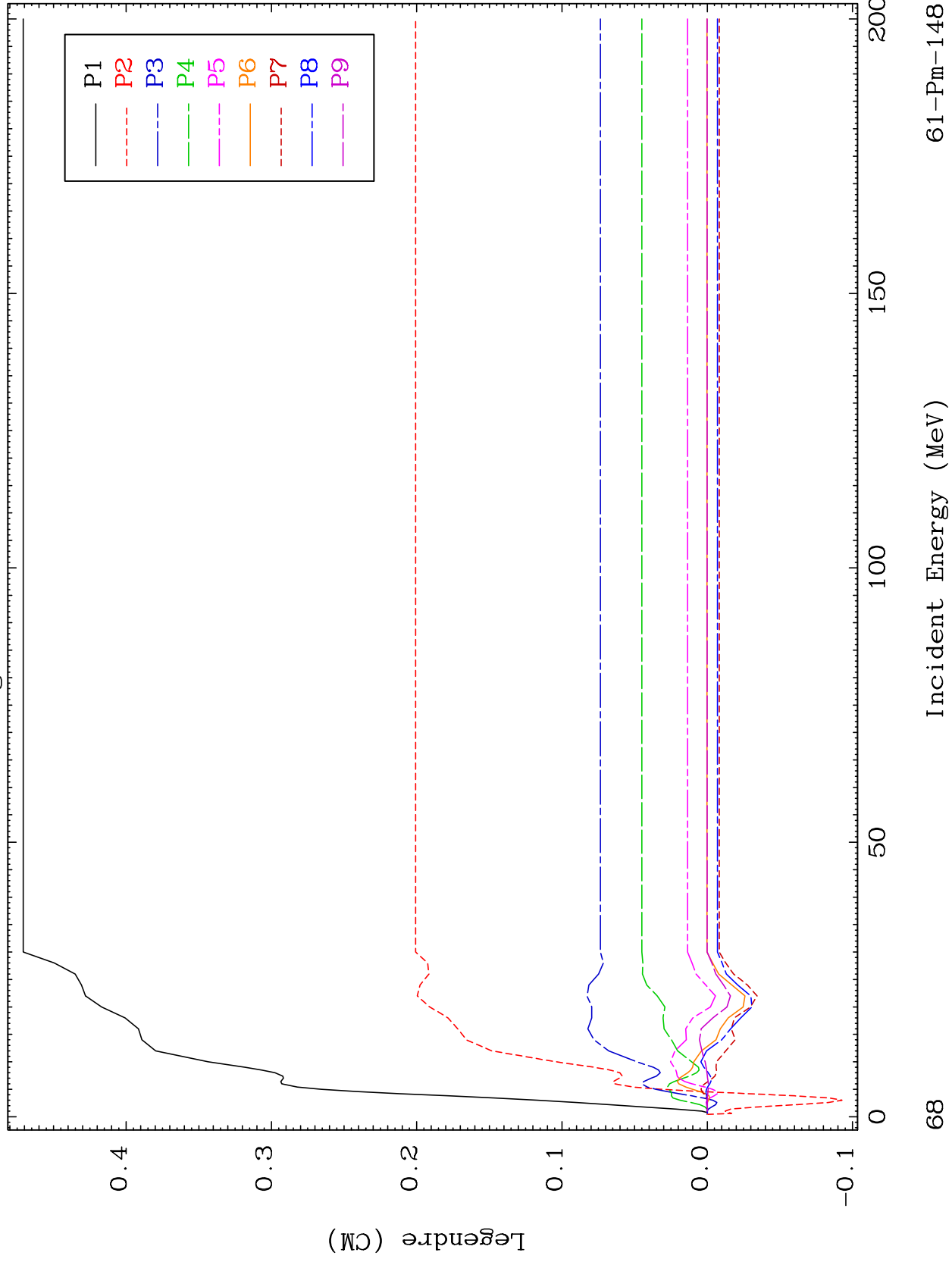
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



61-Pm-148

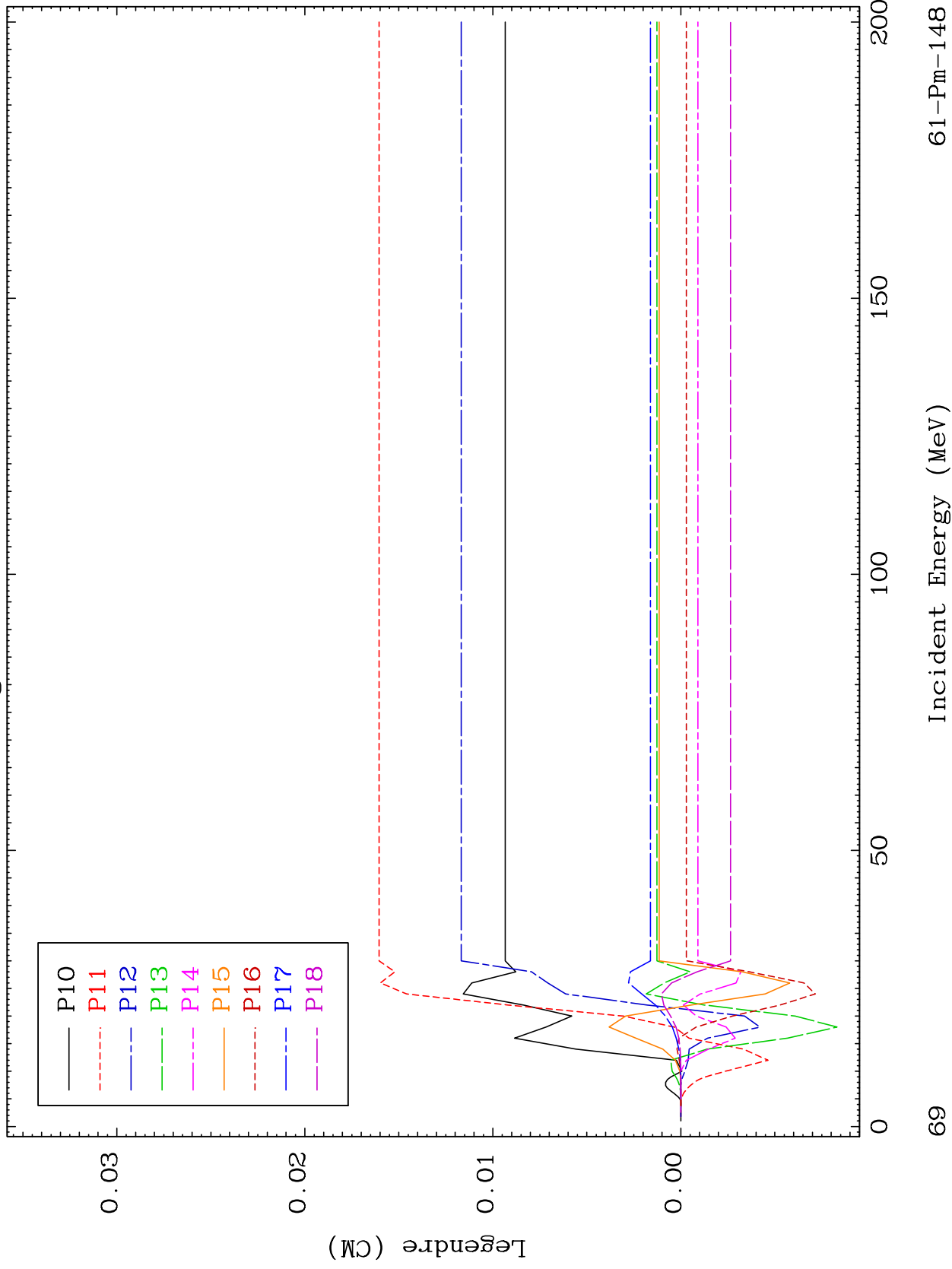
Incident Energy (MeV)

68

MAT 6152

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

61-Pm-148



61-Pm-148

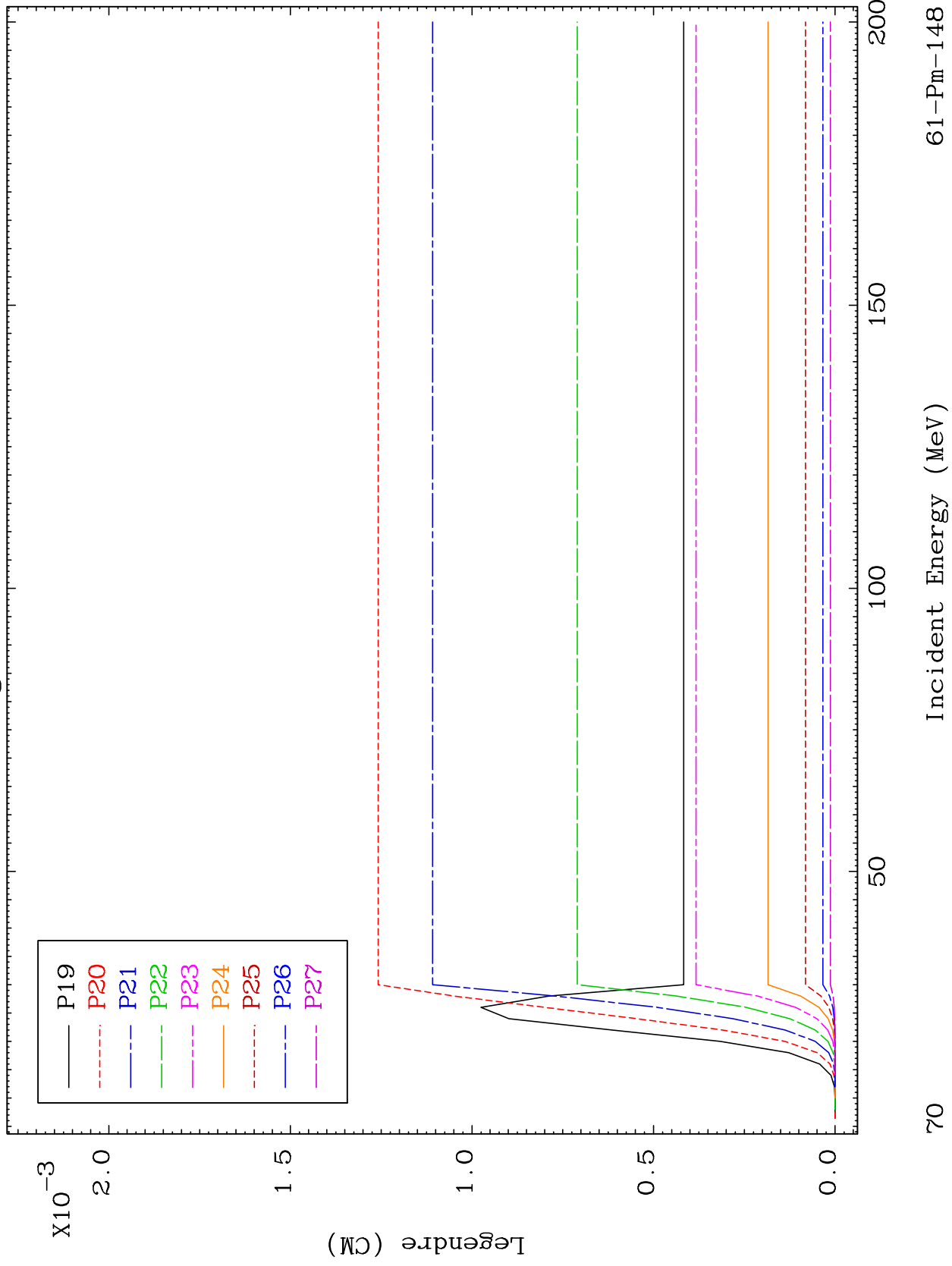
Incident Energy (MeV)

69

MAT 6152

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

61-Pm-148



70

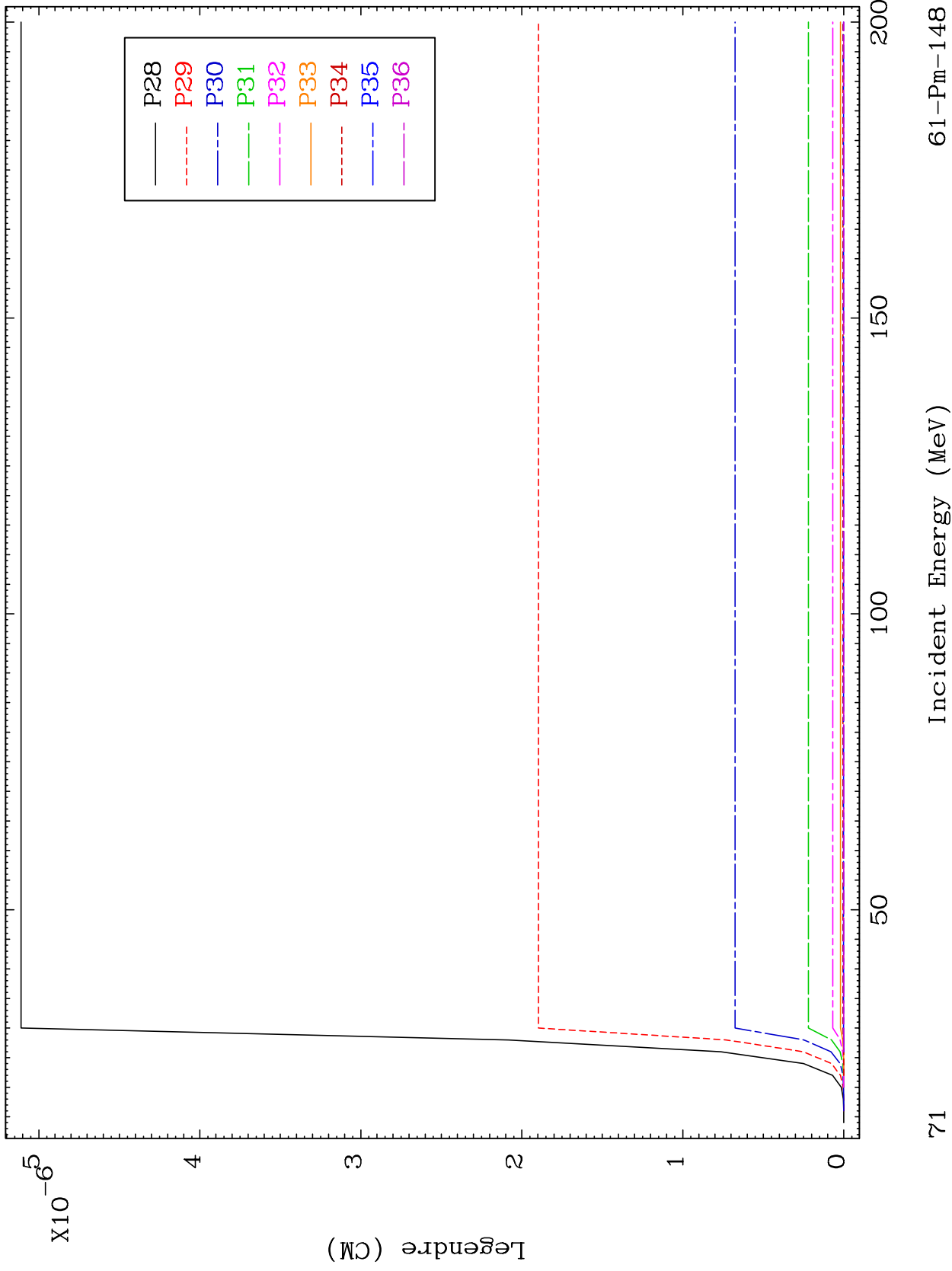
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

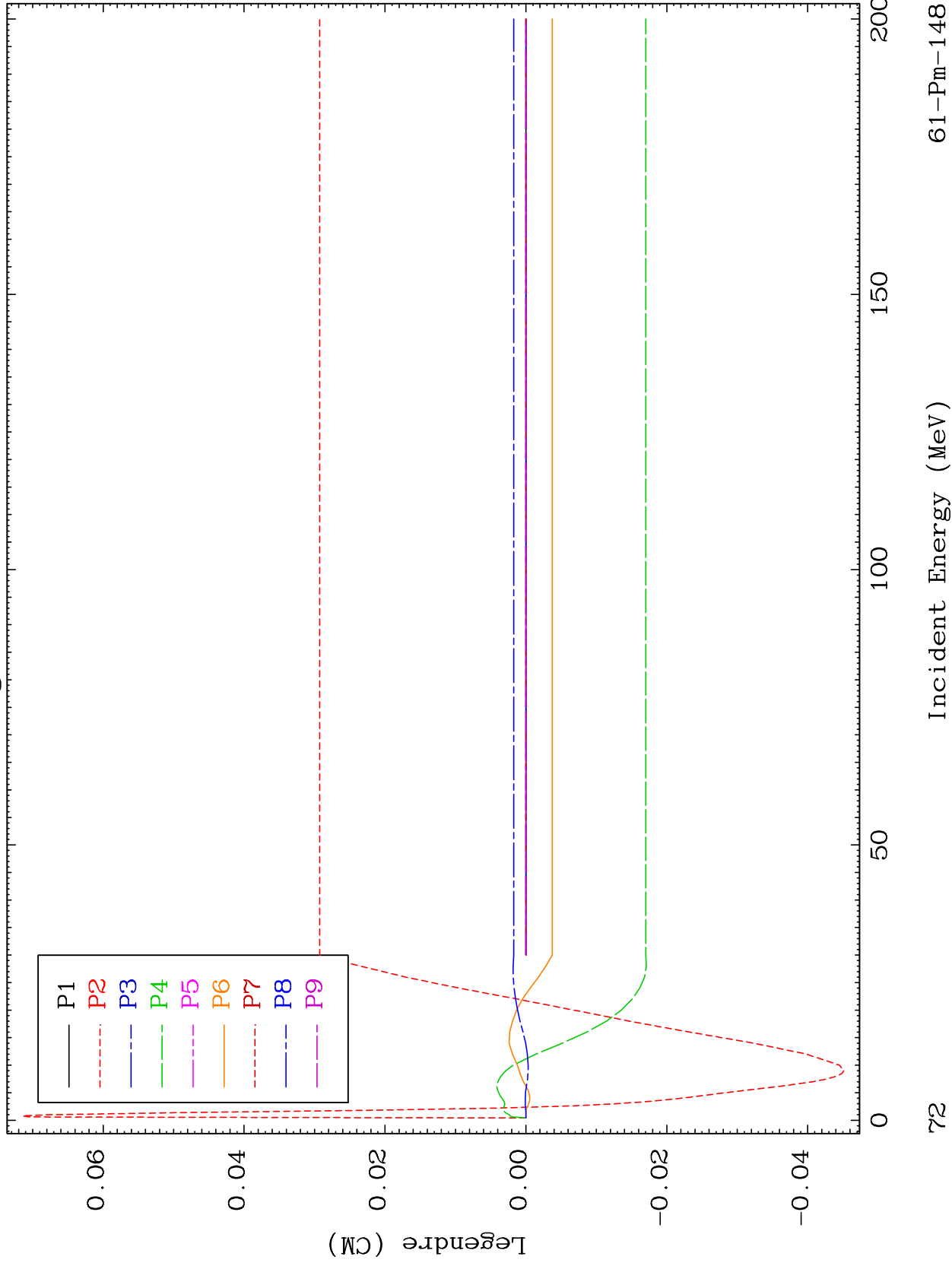
61-Pm-148



MAT 6152

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

61-Pm-148



72

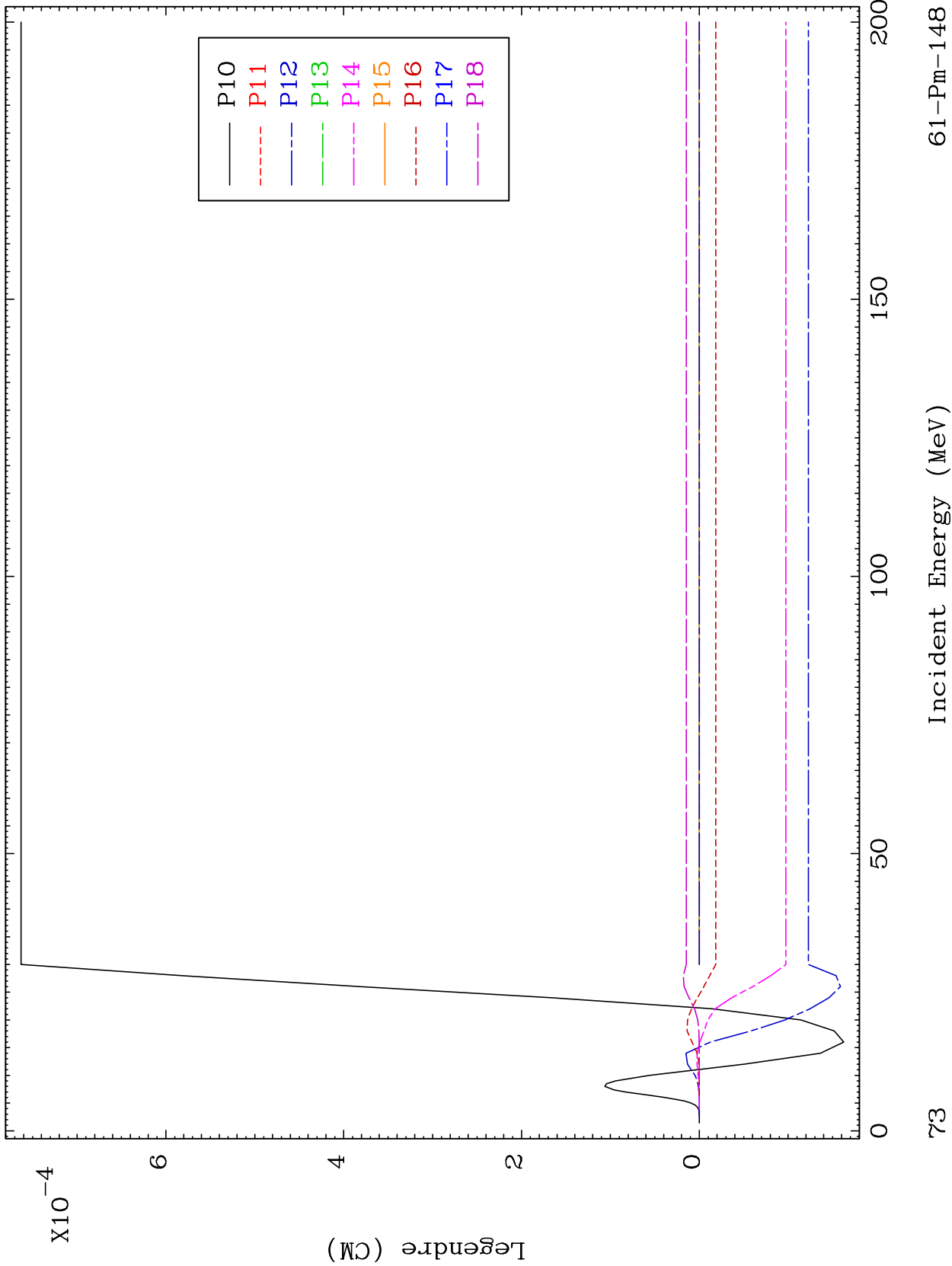
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



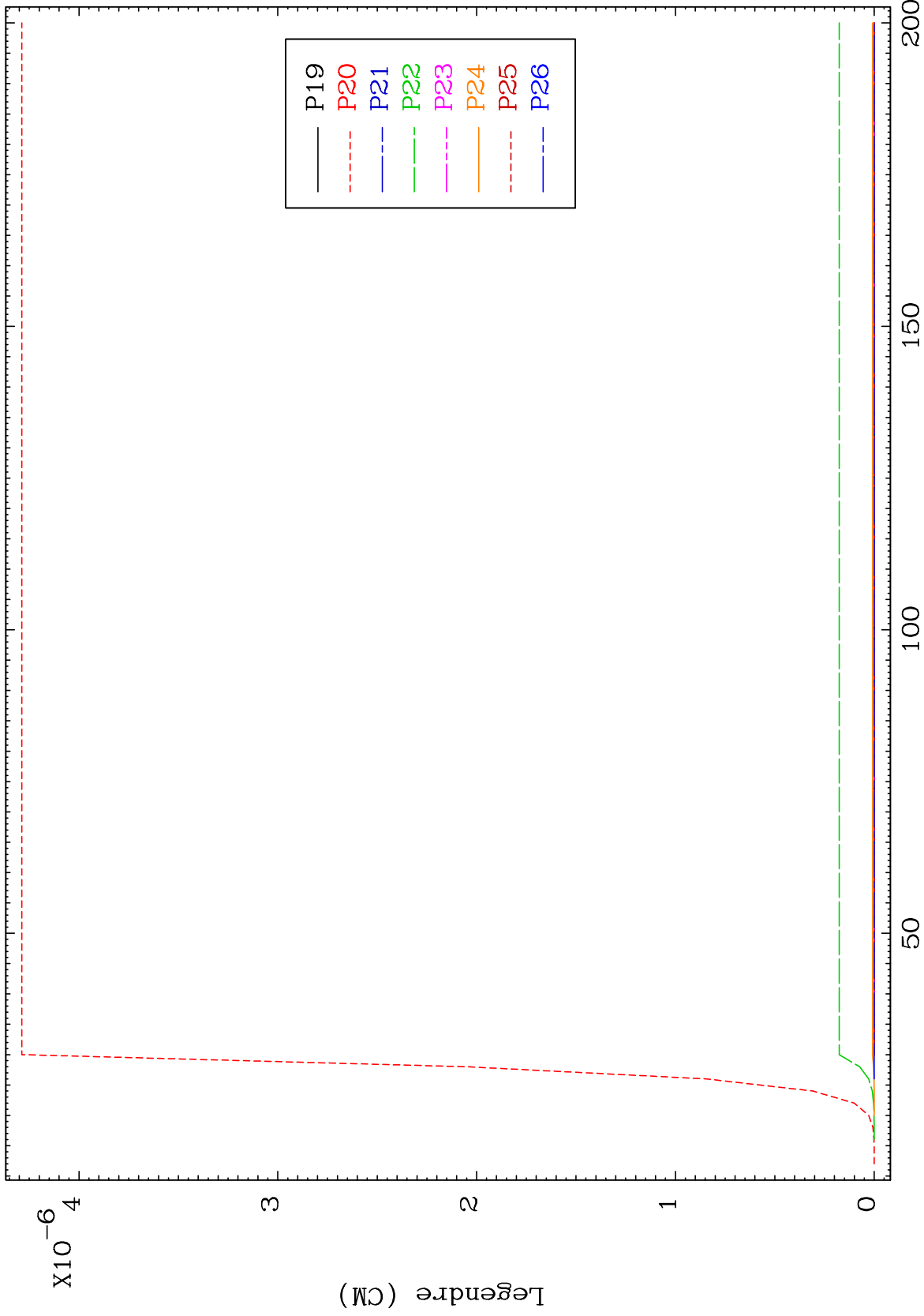
73

61-Pm-148

MAT 6152

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

61-Pm-148



74

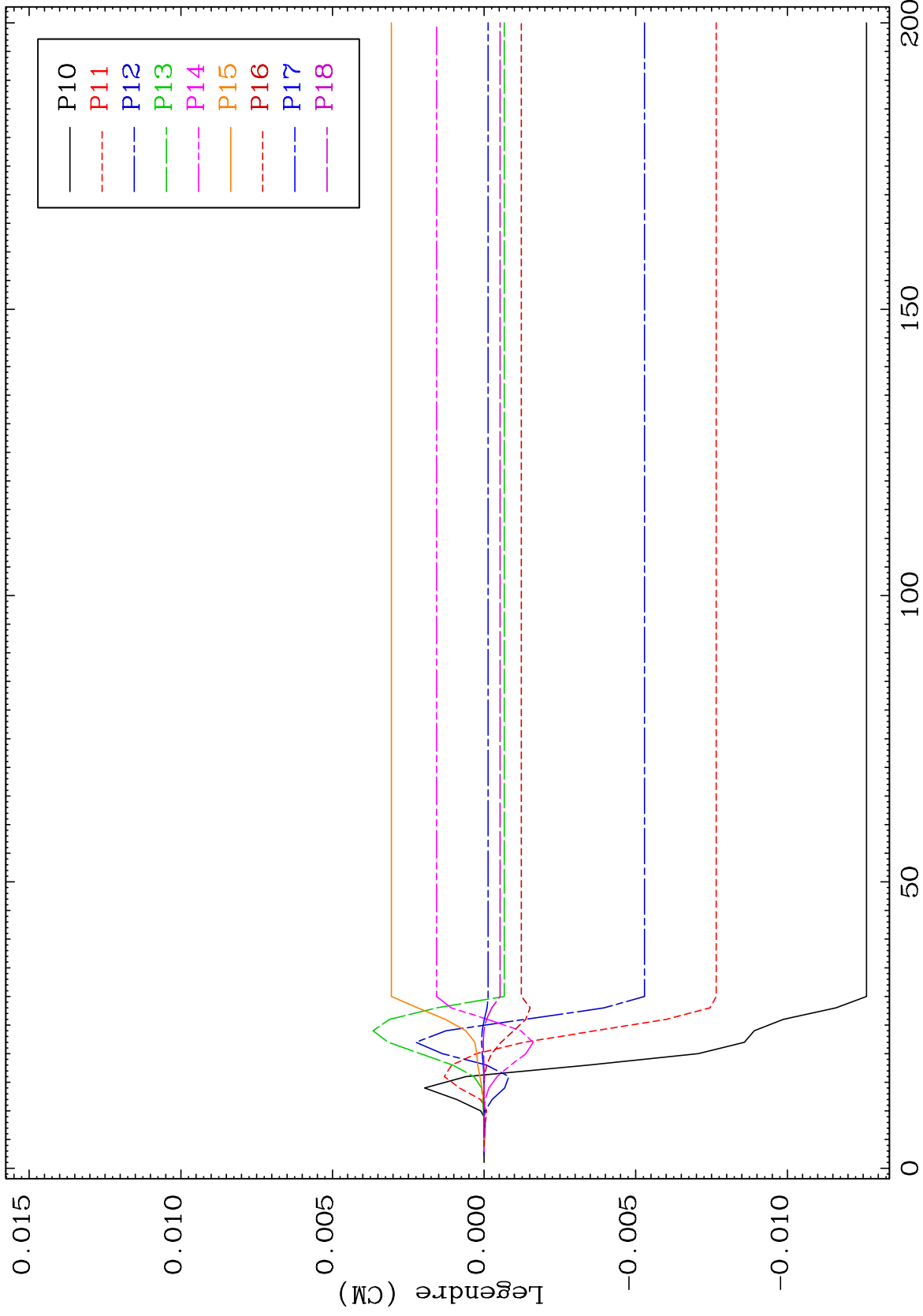
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



76

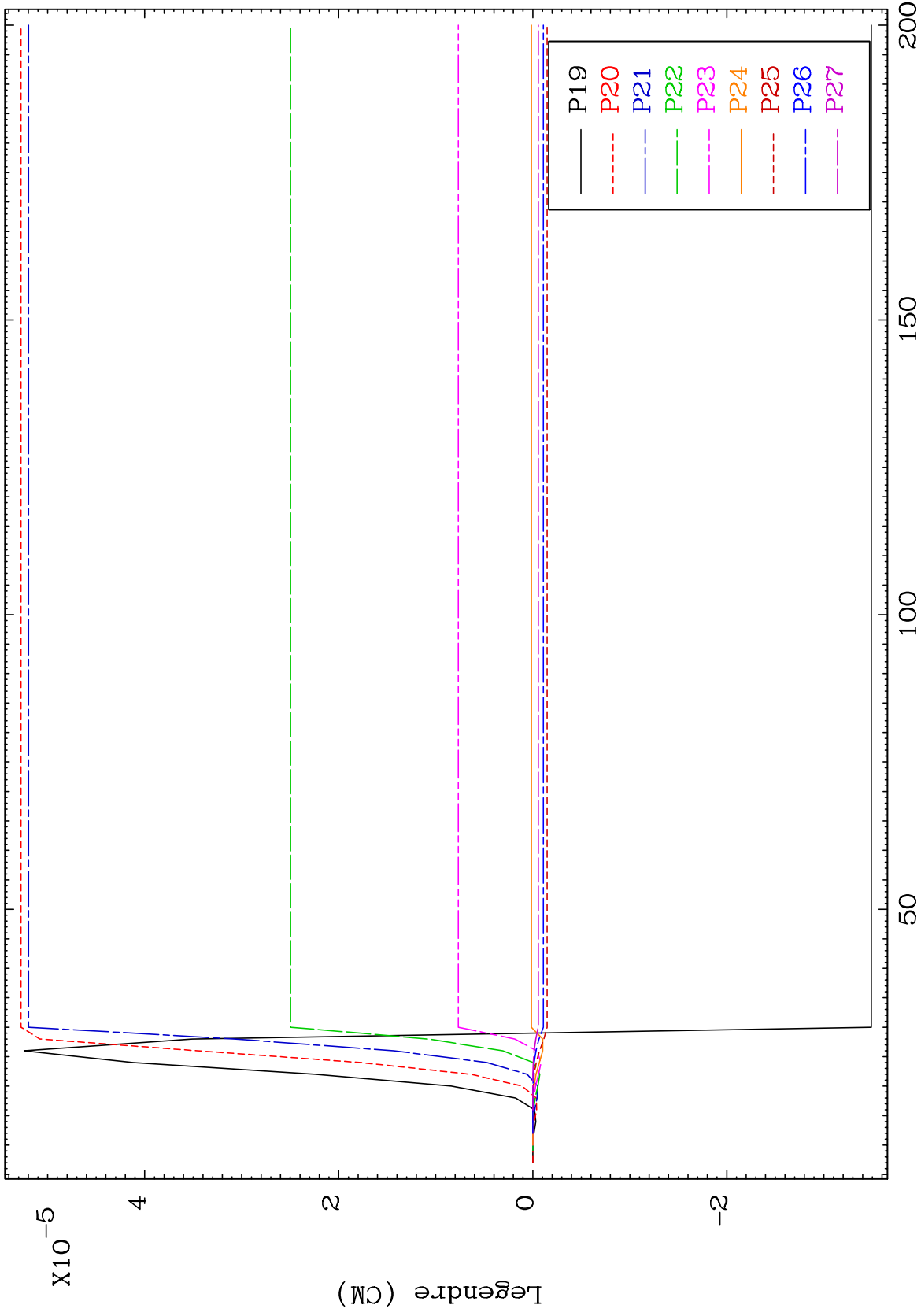
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

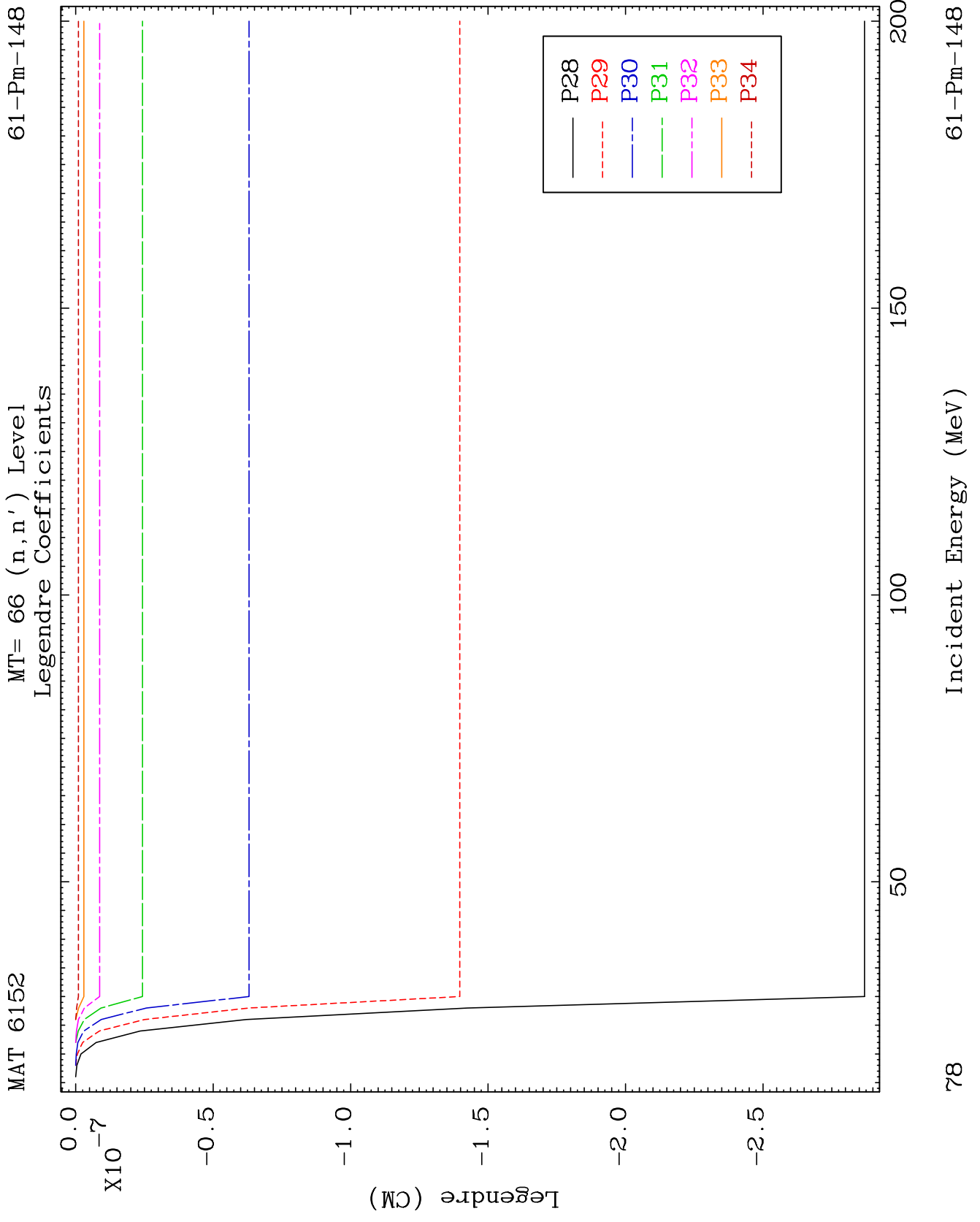
61-Pm-148



77

Incident Energy (MeV)

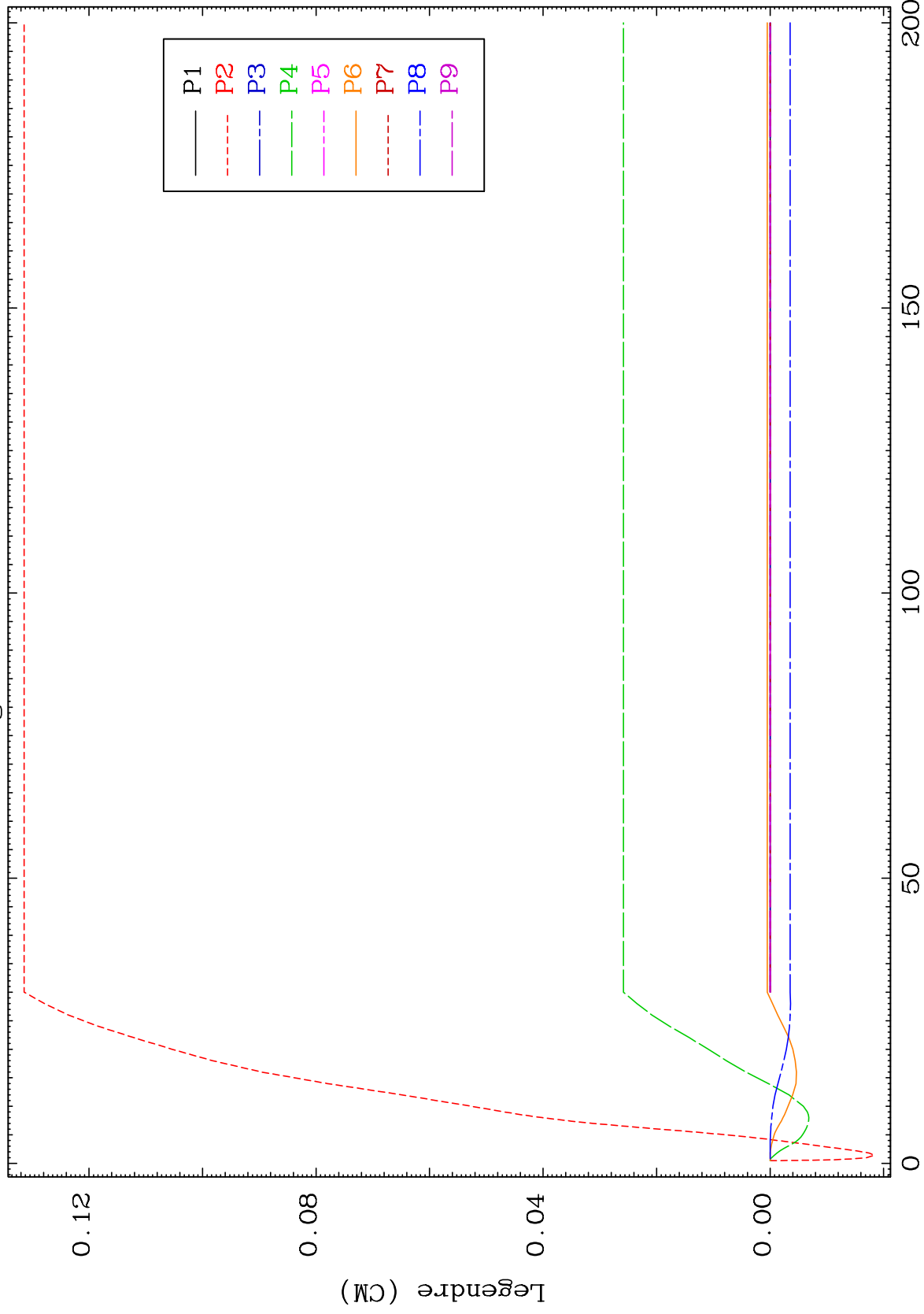
61-Pm-148



MAT 6152

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

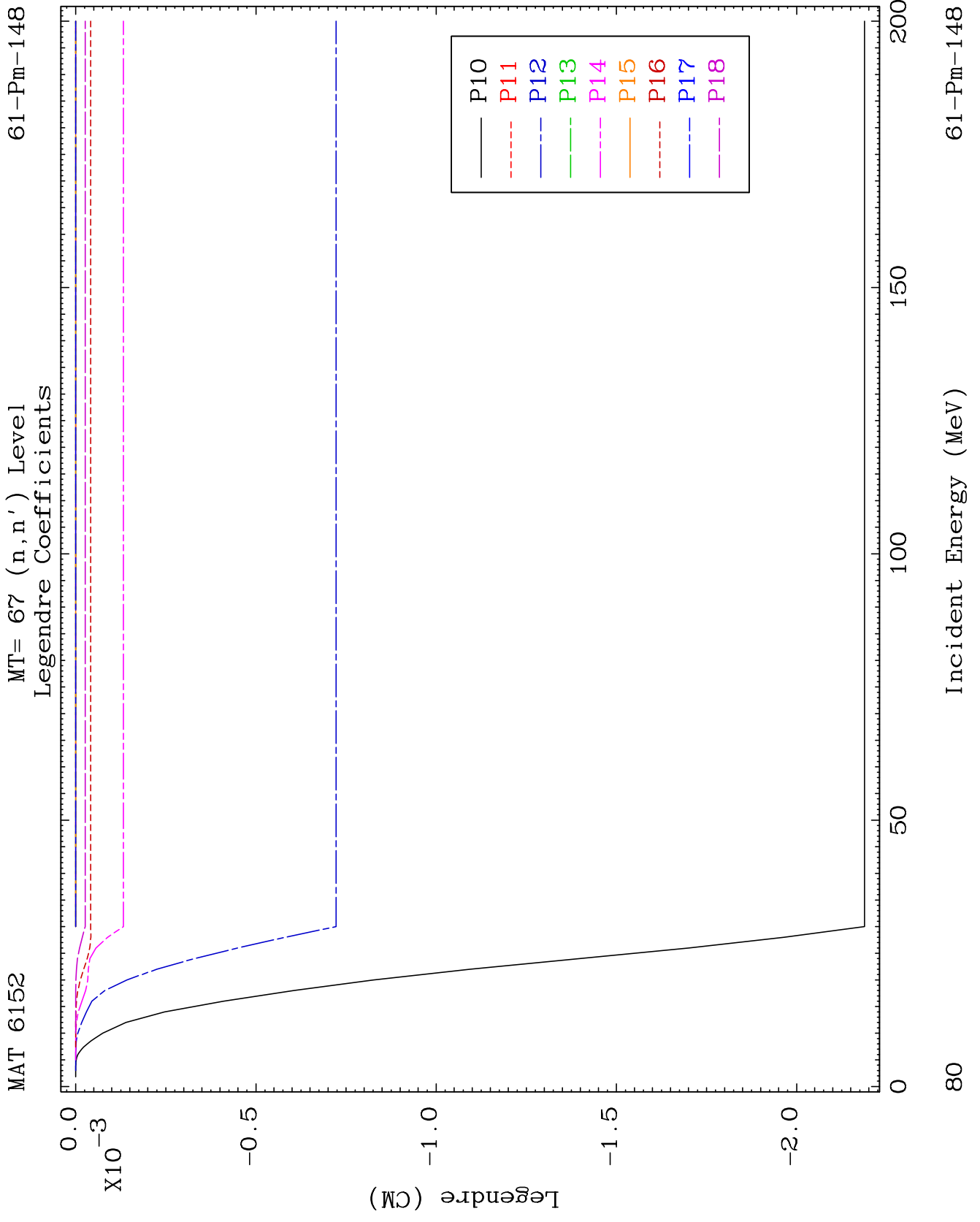
61-Pm-148

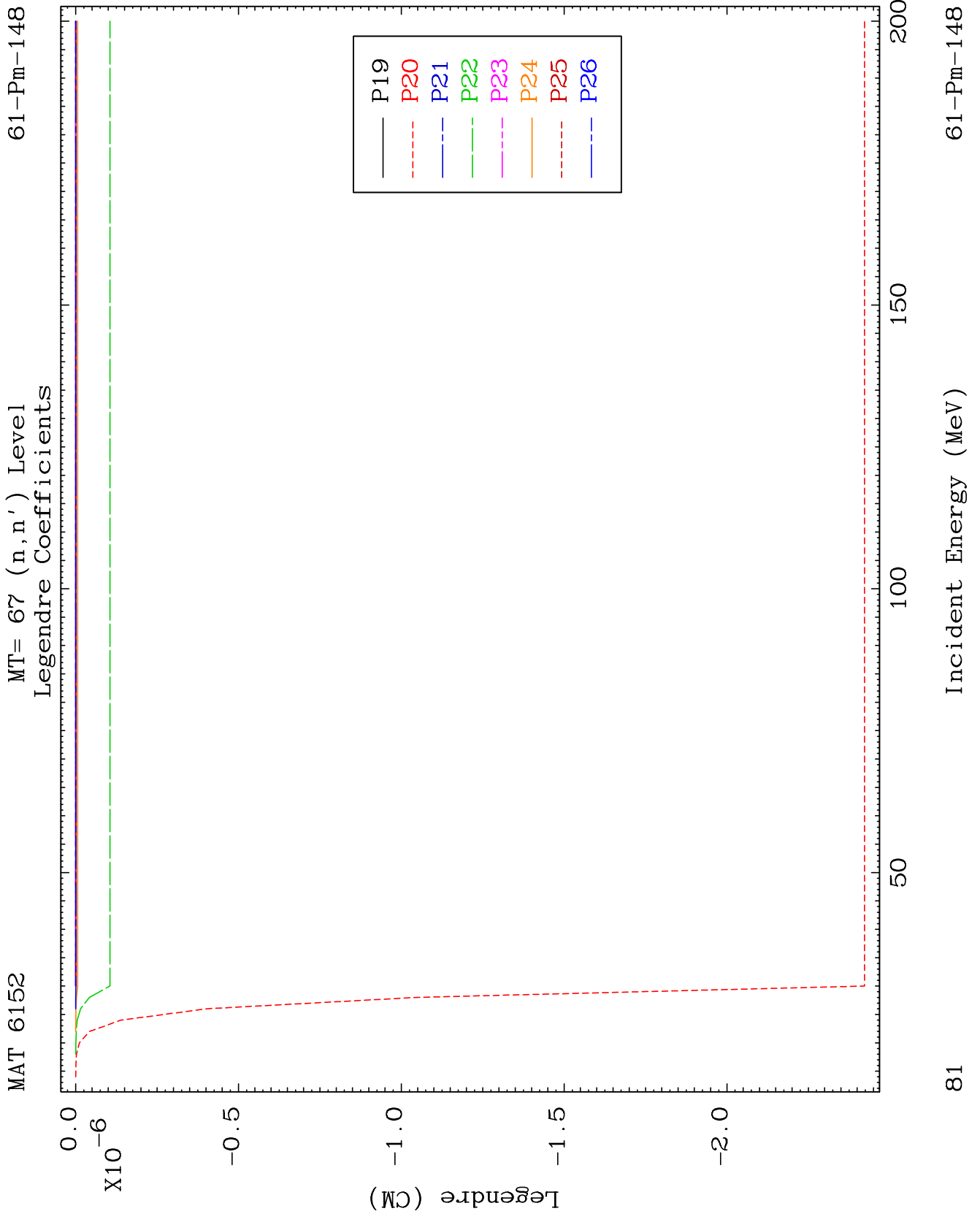


79

Incident Energy (MeV)

61-Pm-148

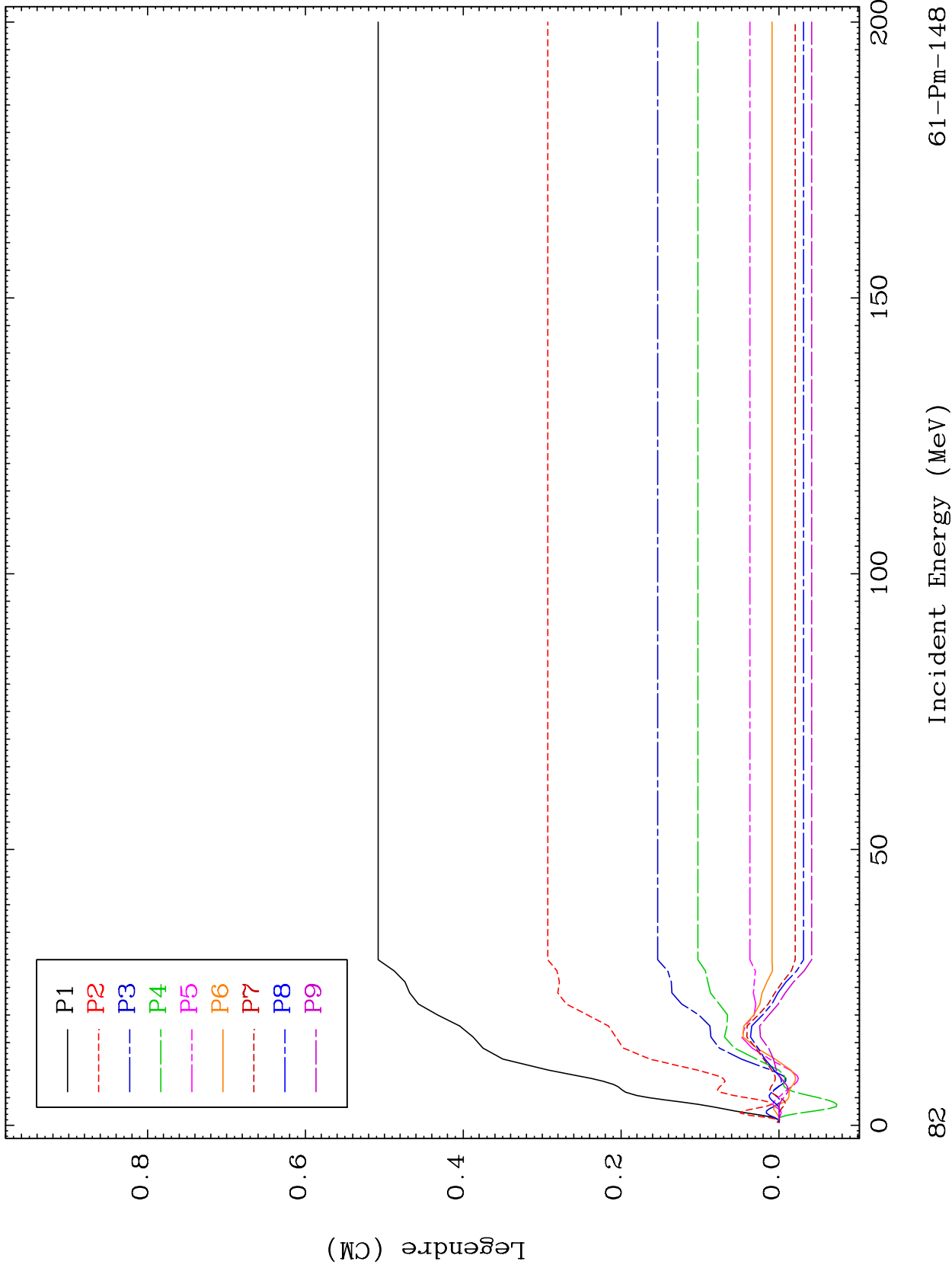




MAT 6152

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

61-Pm-148



82

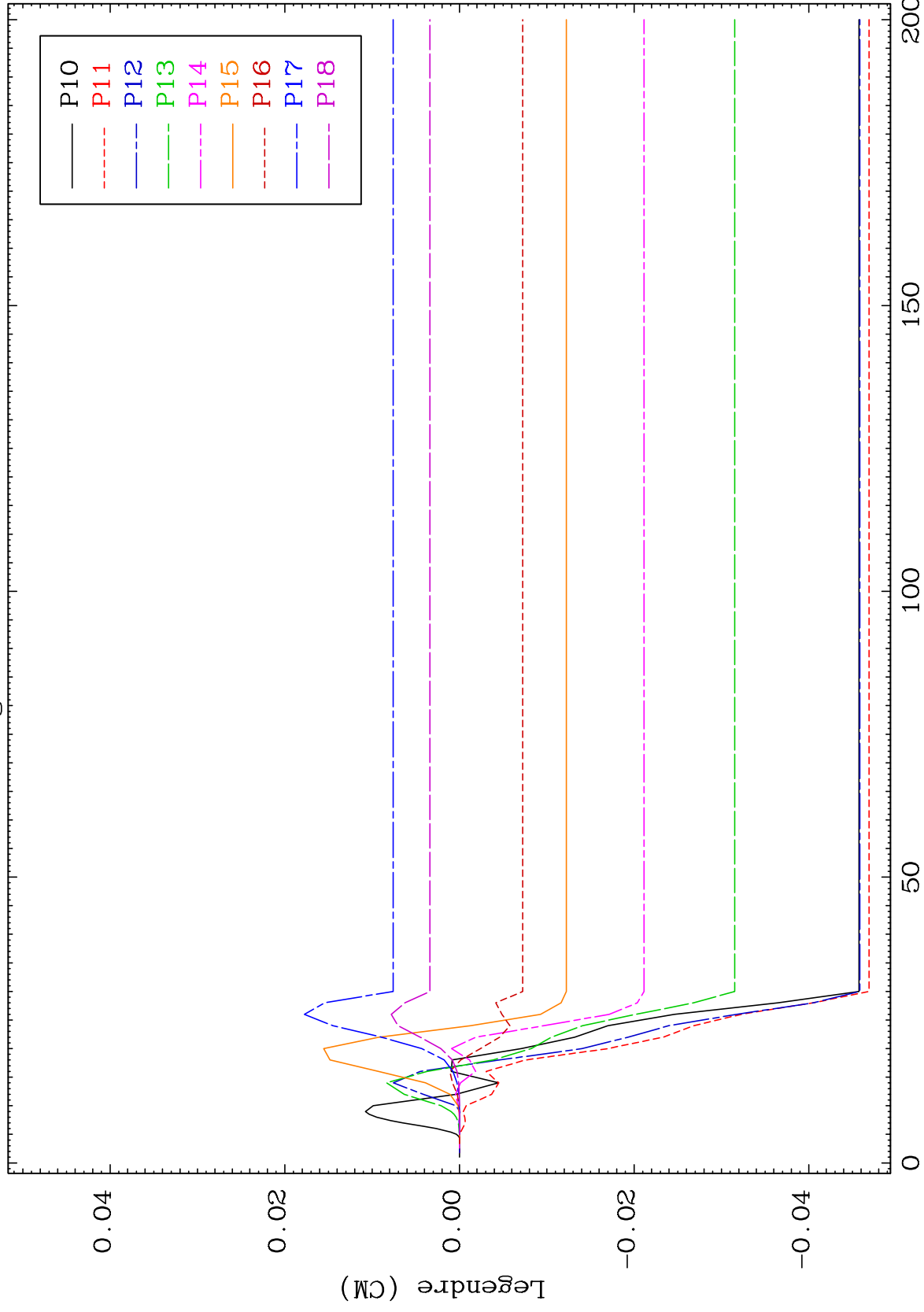
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



83

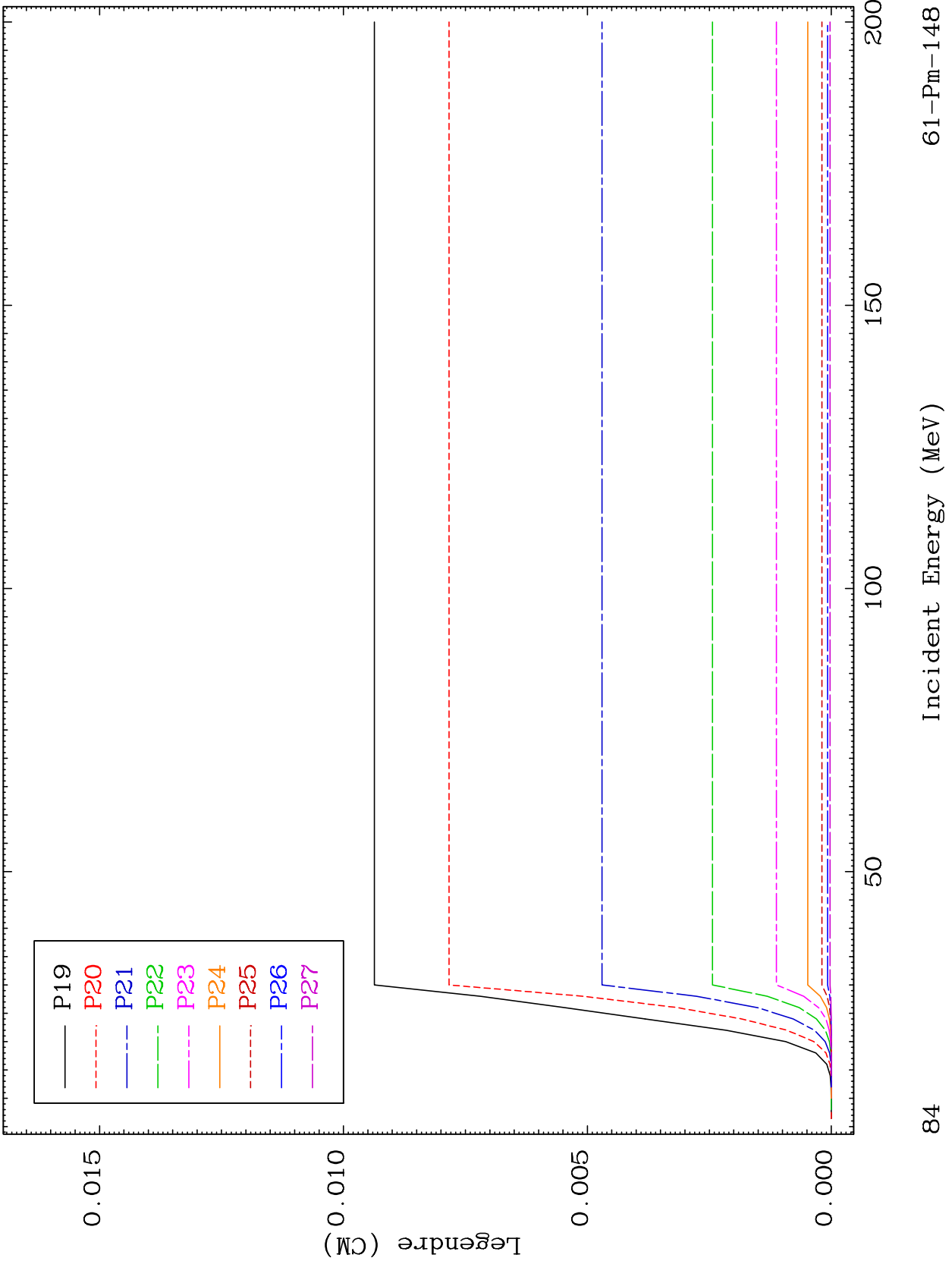
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

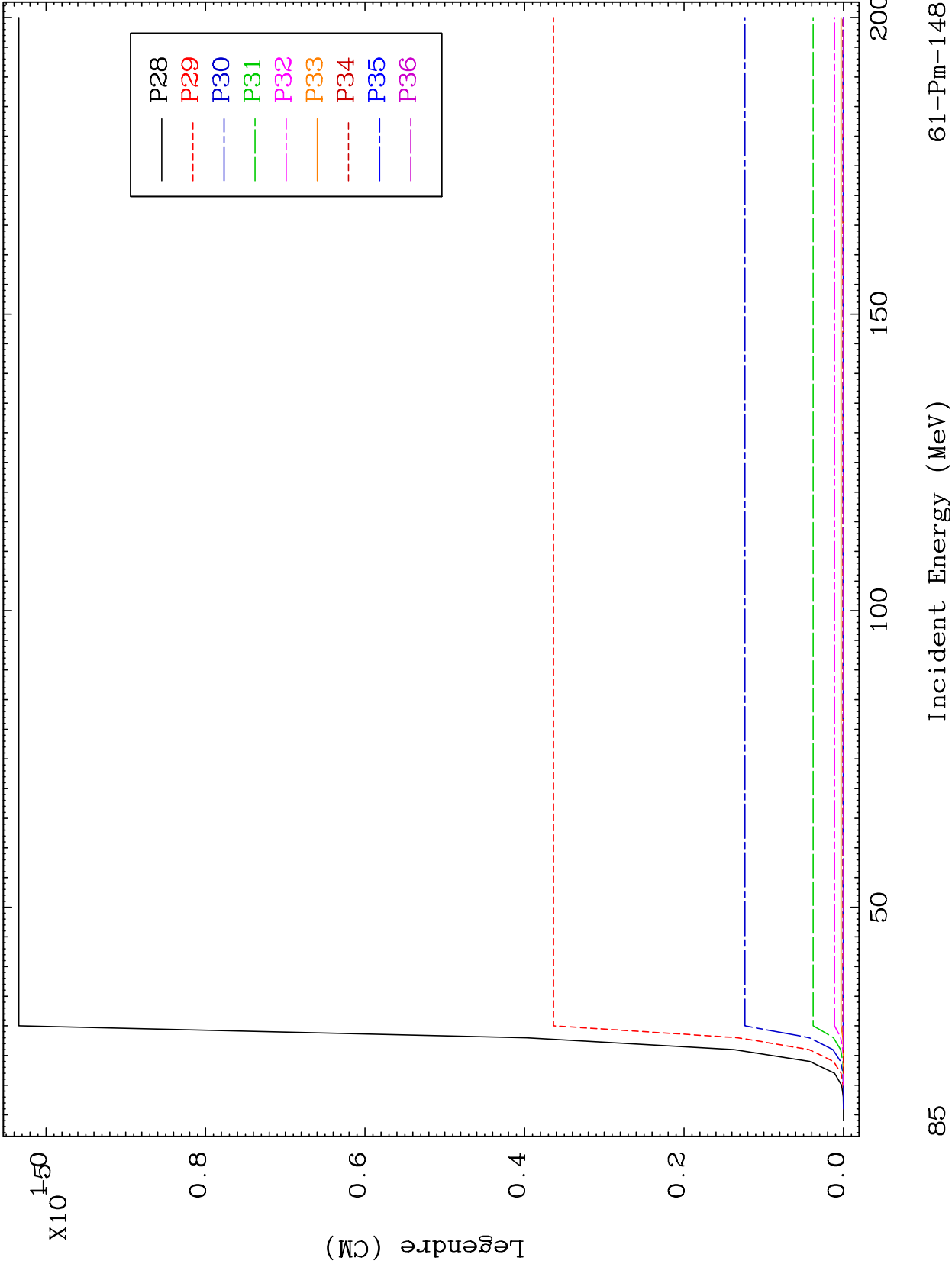
61-Pm-148



MAT 6152

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

61-Pm-148



85

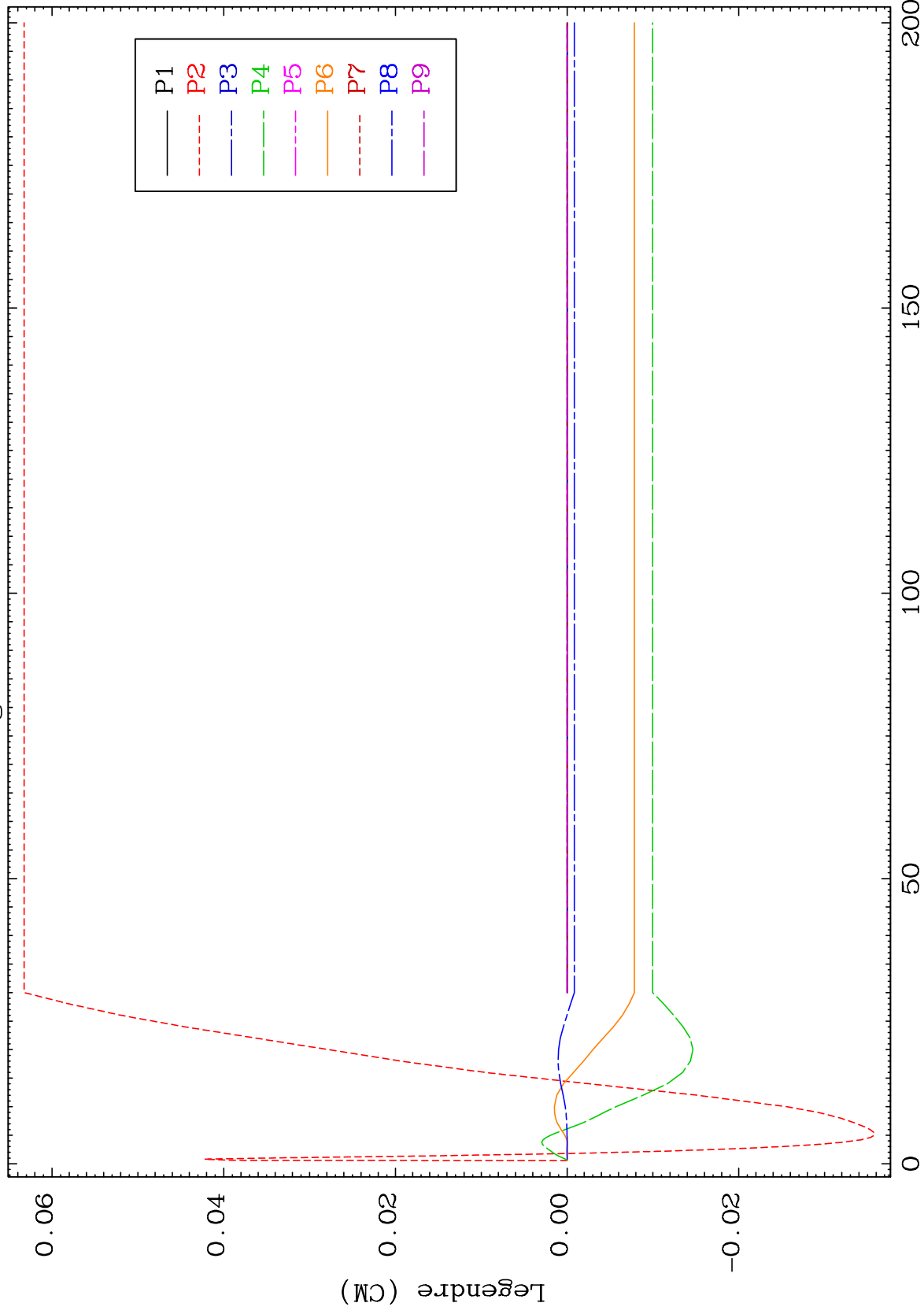
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



86

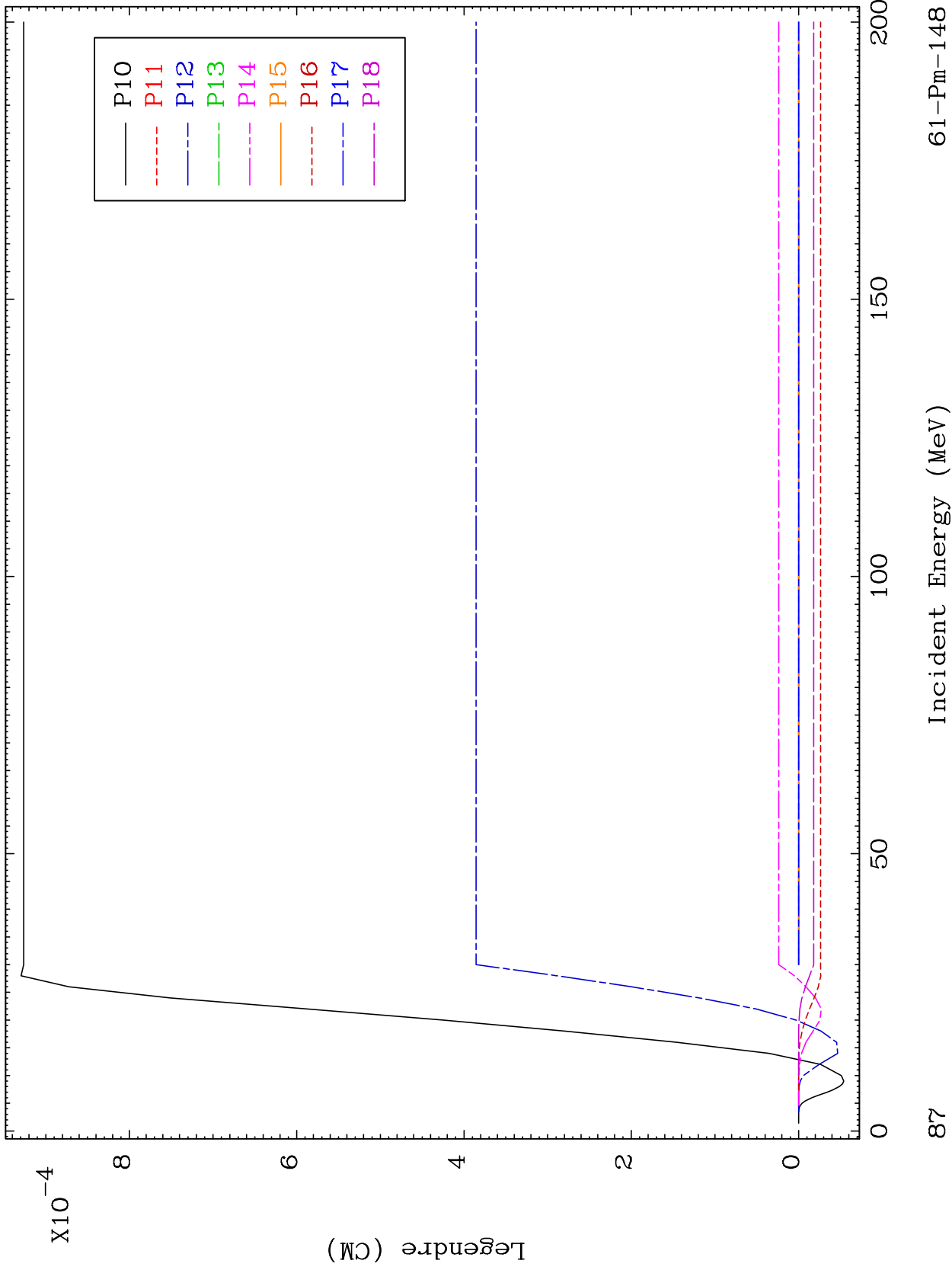
Incident Energy (MeV)

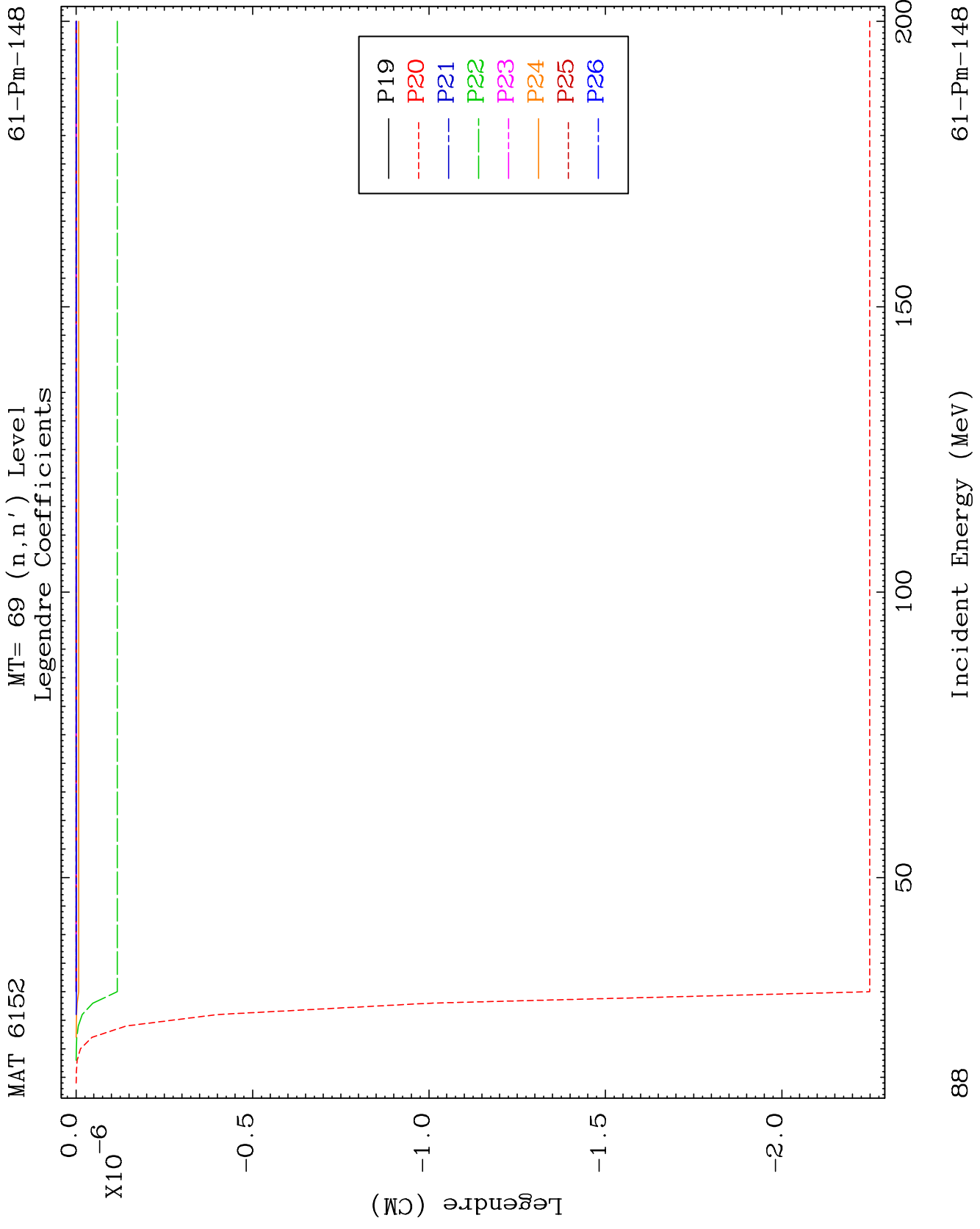
61-Pm-148

MAT 6152

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

61-Pm-148

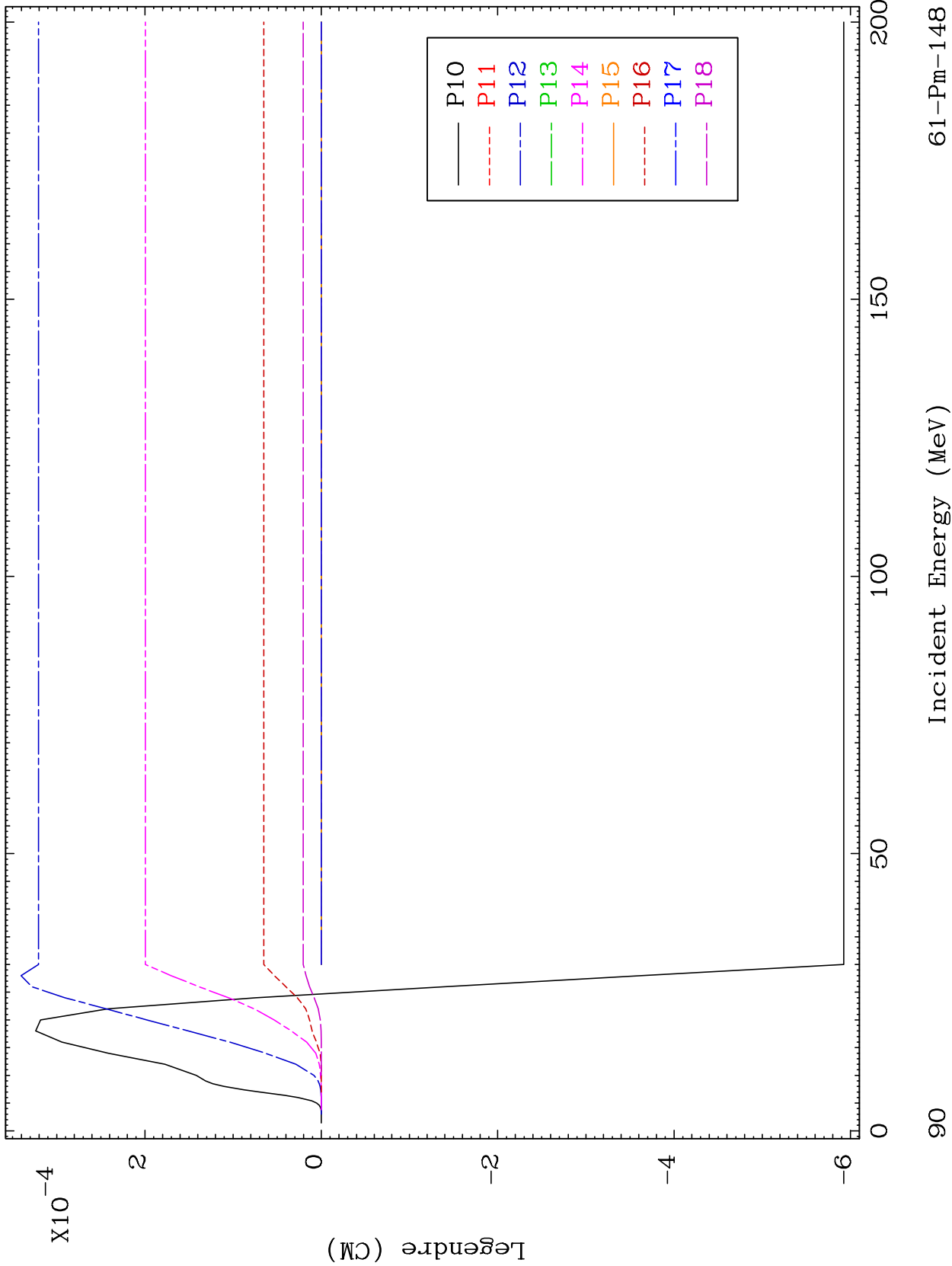




MAT 6152

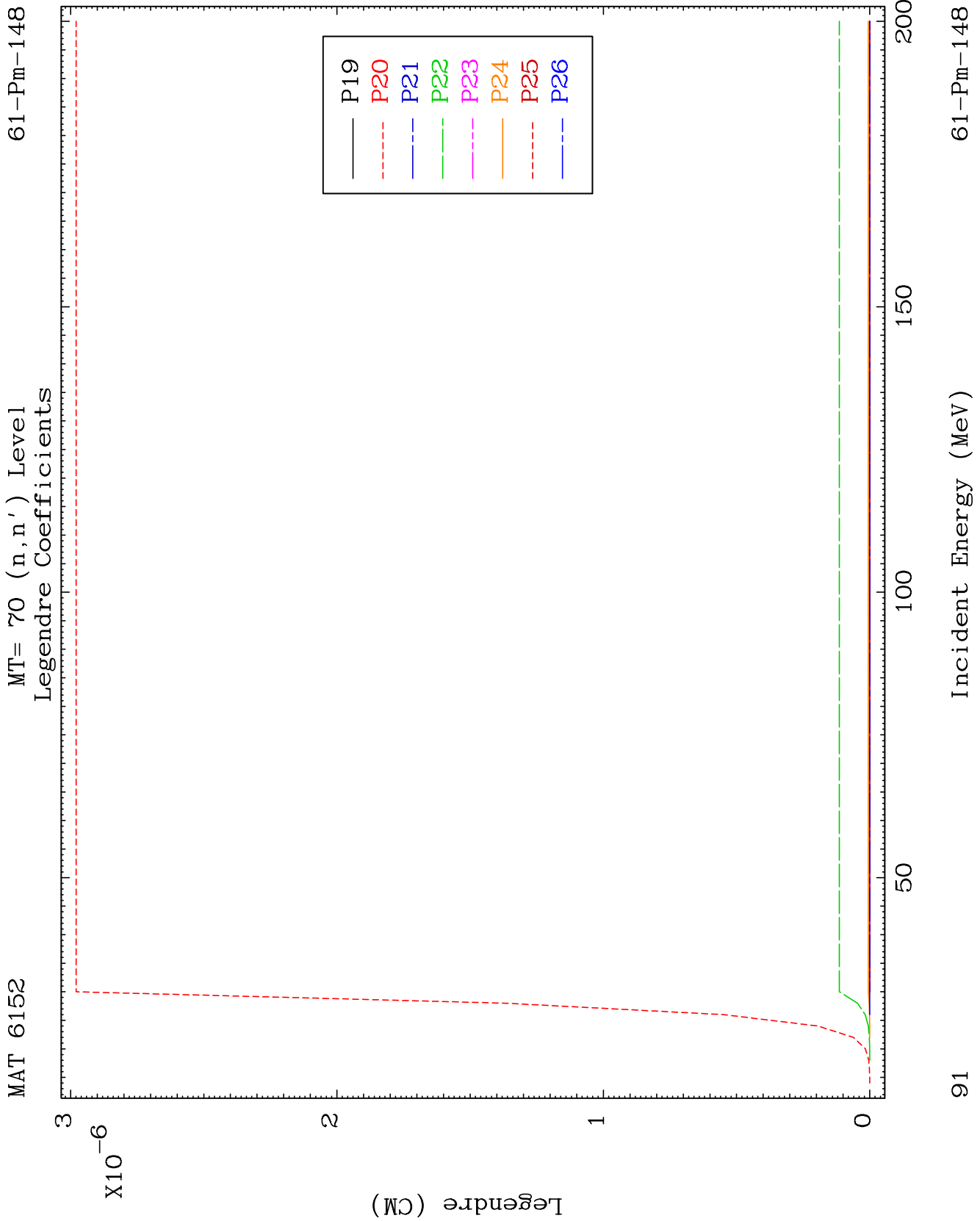
MT= 70 (n,n') Level
Legendre Coefficients

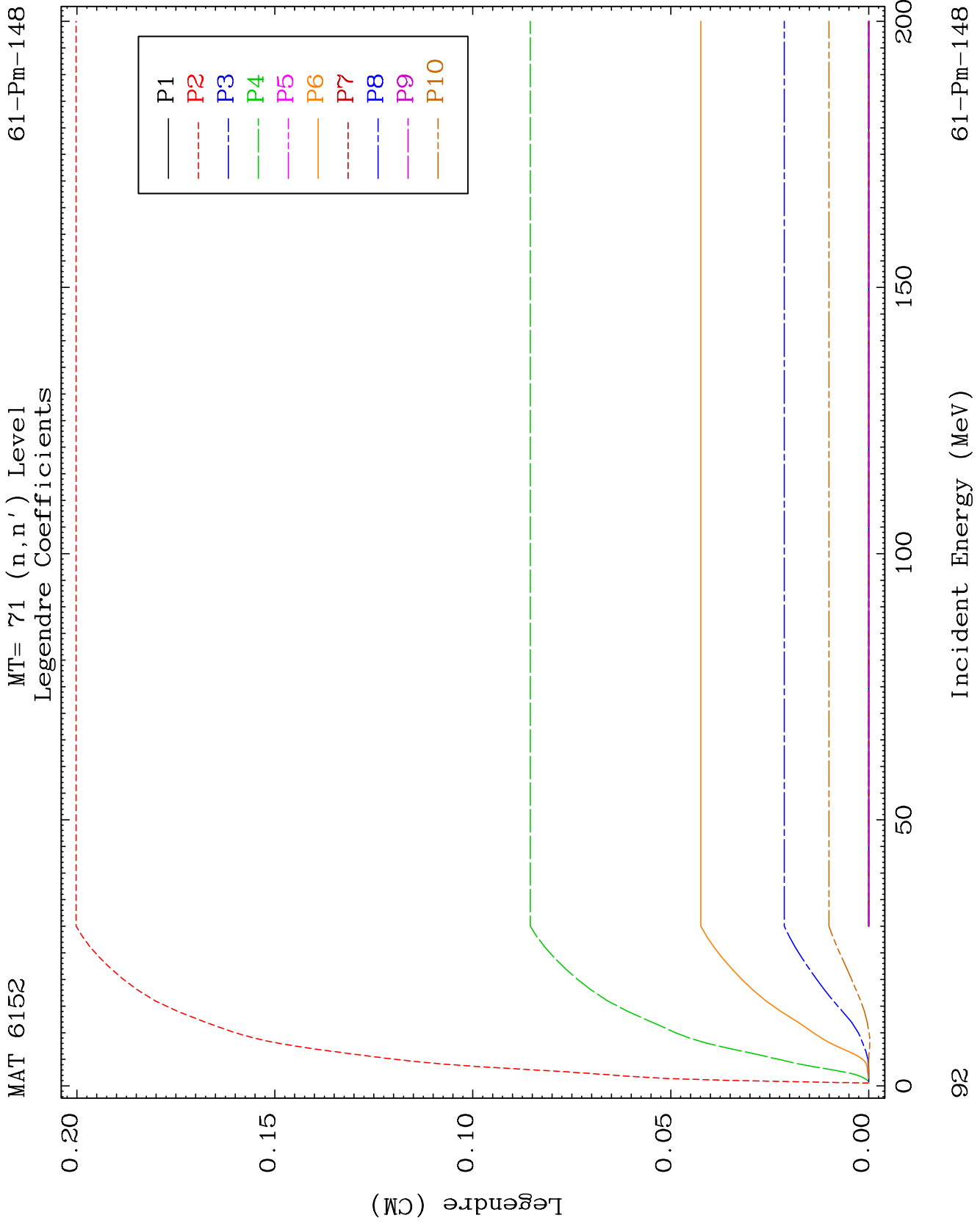
61-Pm-148

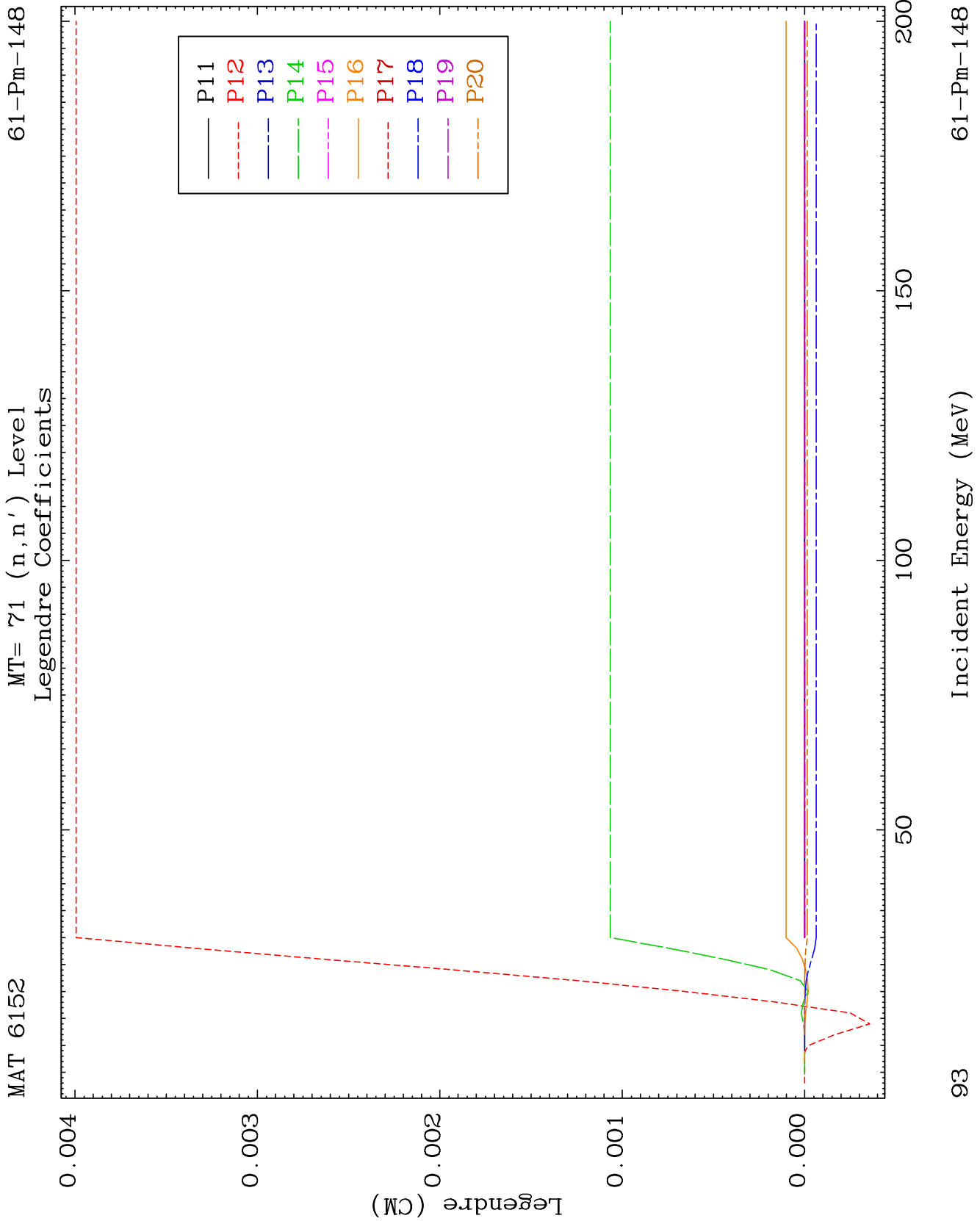


61-Pm-148

Incident Energy (MeV)



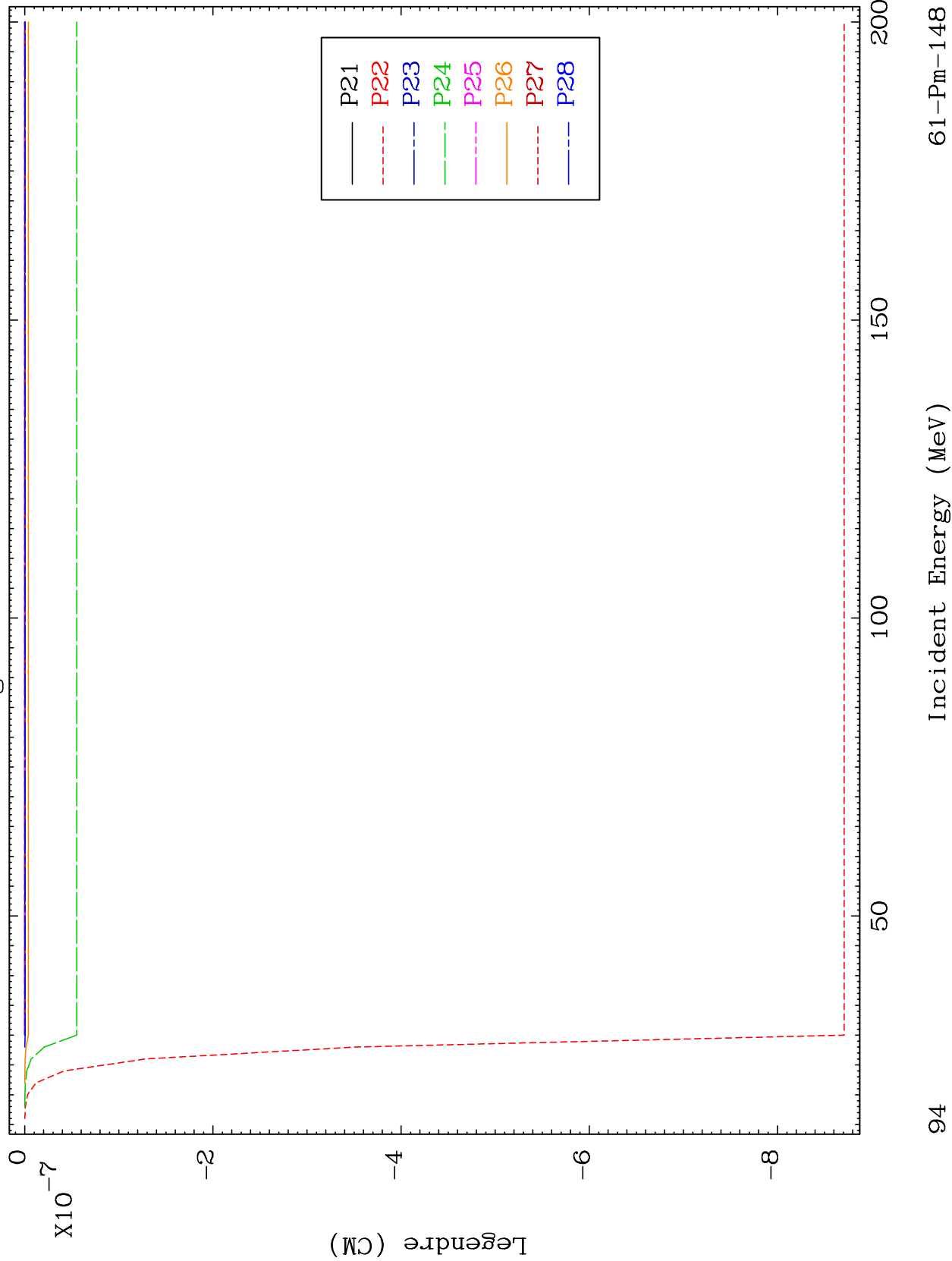




MAT 6152

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

61-Pm-148

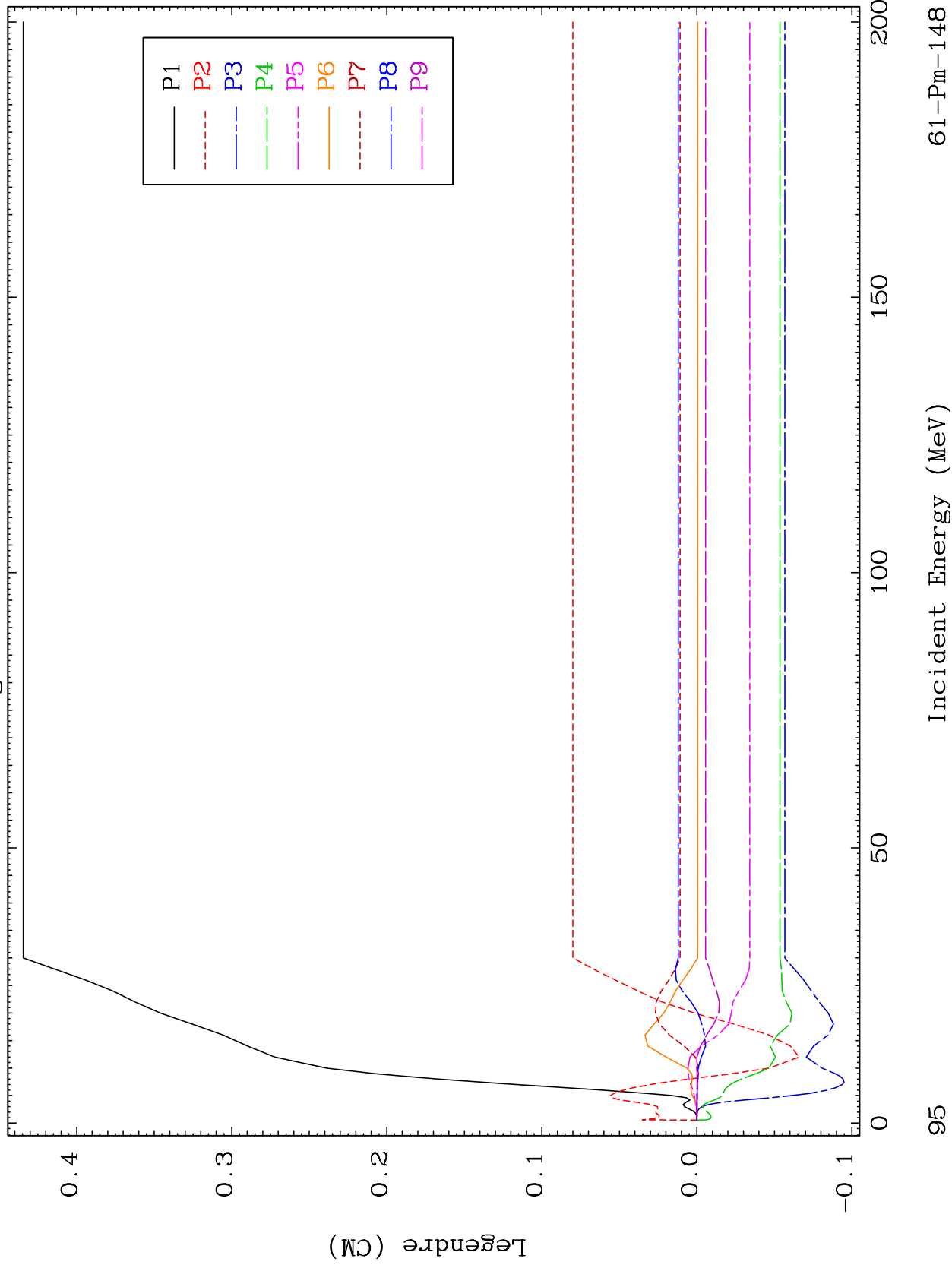


94

MAT 6152

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

61-Pm-148



61-Pm-148

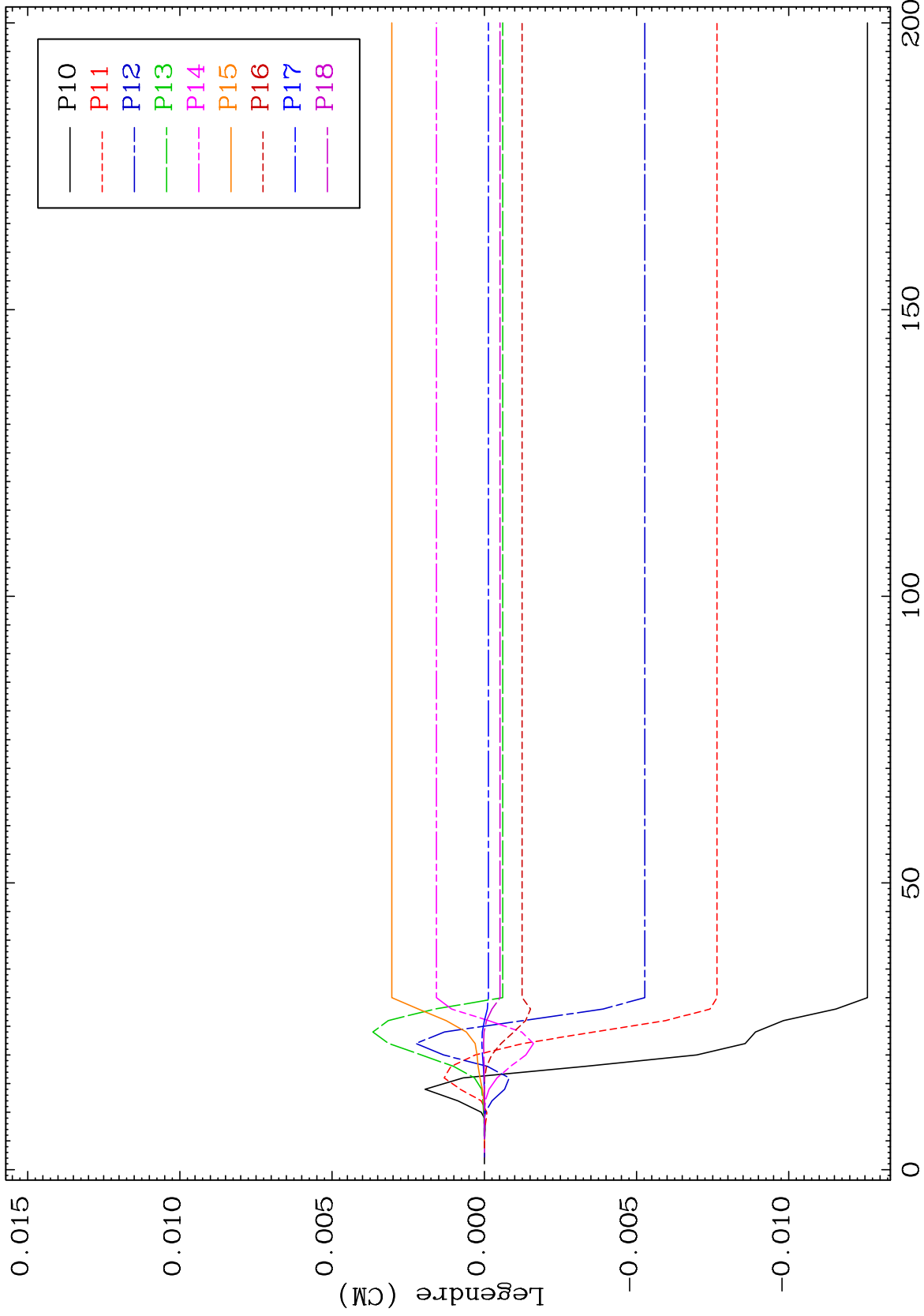
Incident Energy (MeV)

95

MAT 6152

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

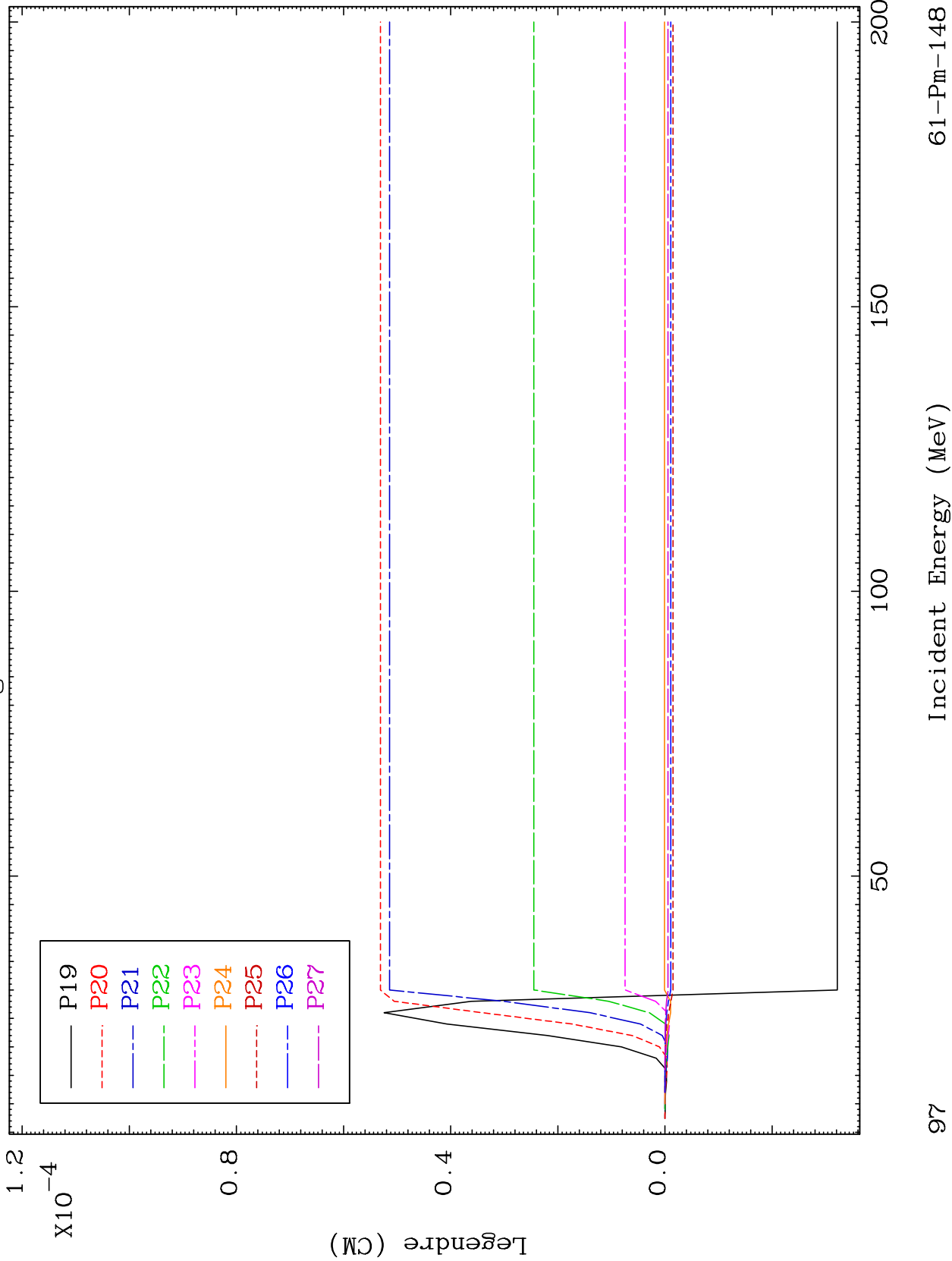
61-Pm-148



96

Incident Energy (MeV)

61-Pm-148

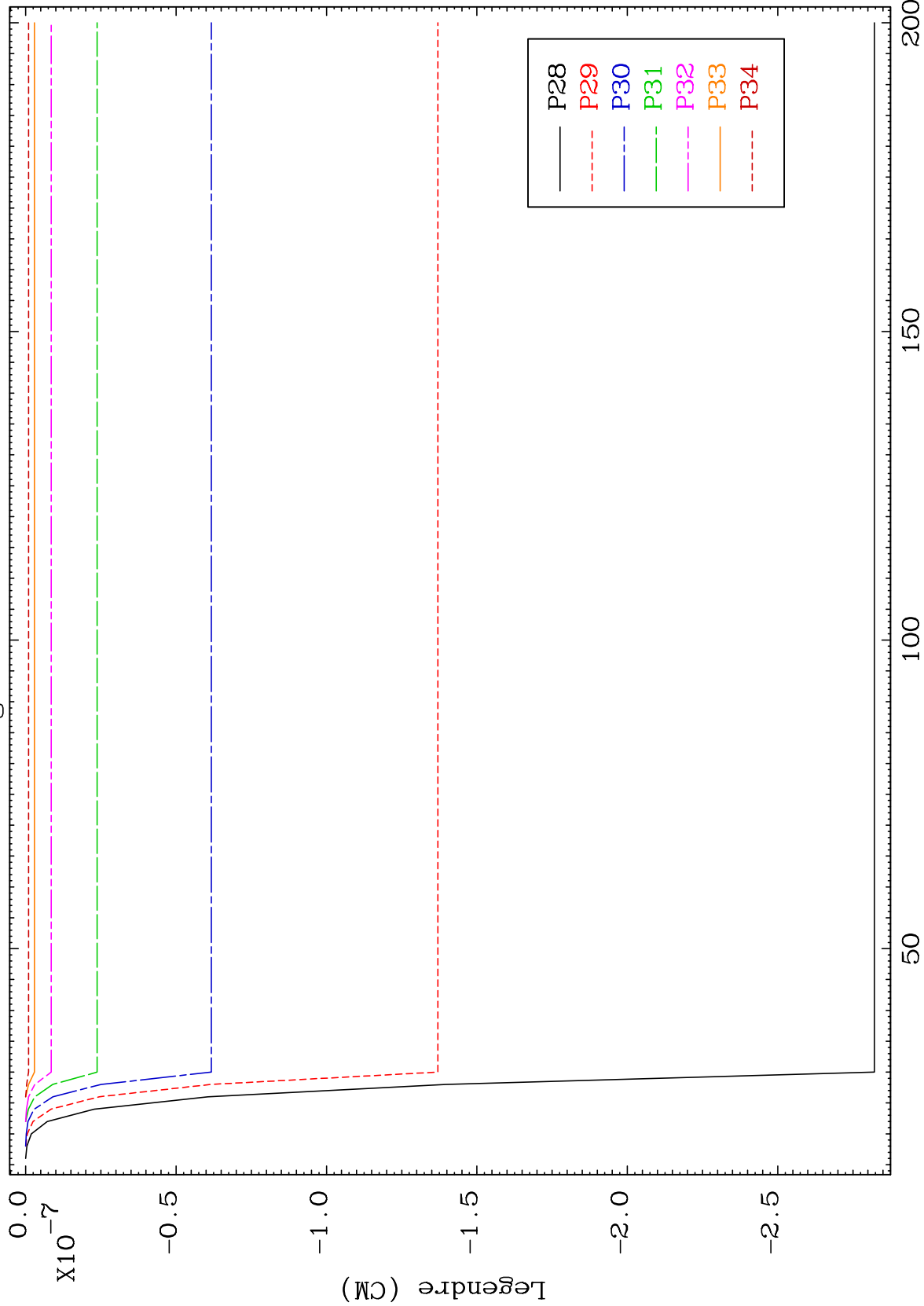


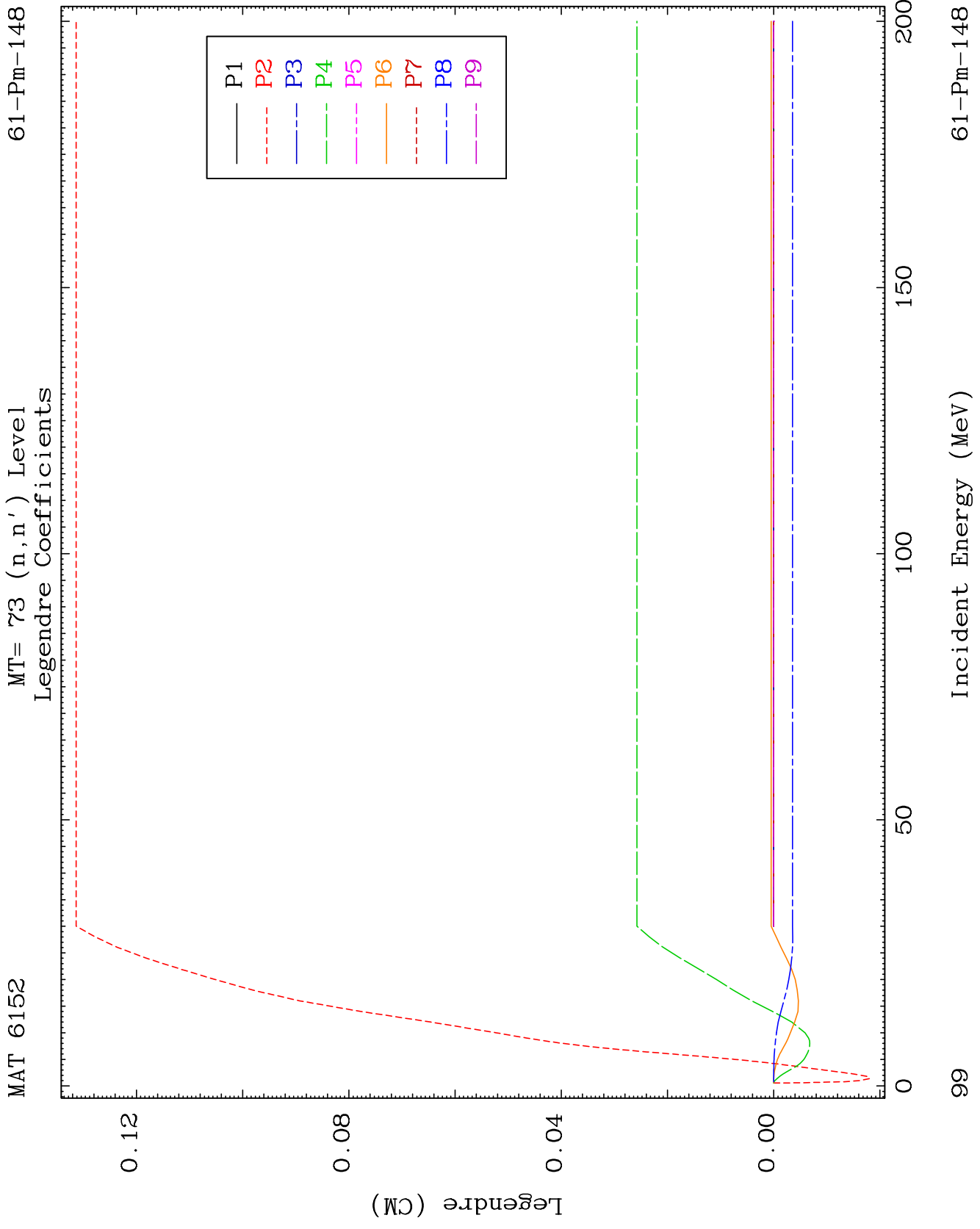
MAT 6152

MT= 72 (n,n') Level

61-Pm-148

Legendre Coefficients

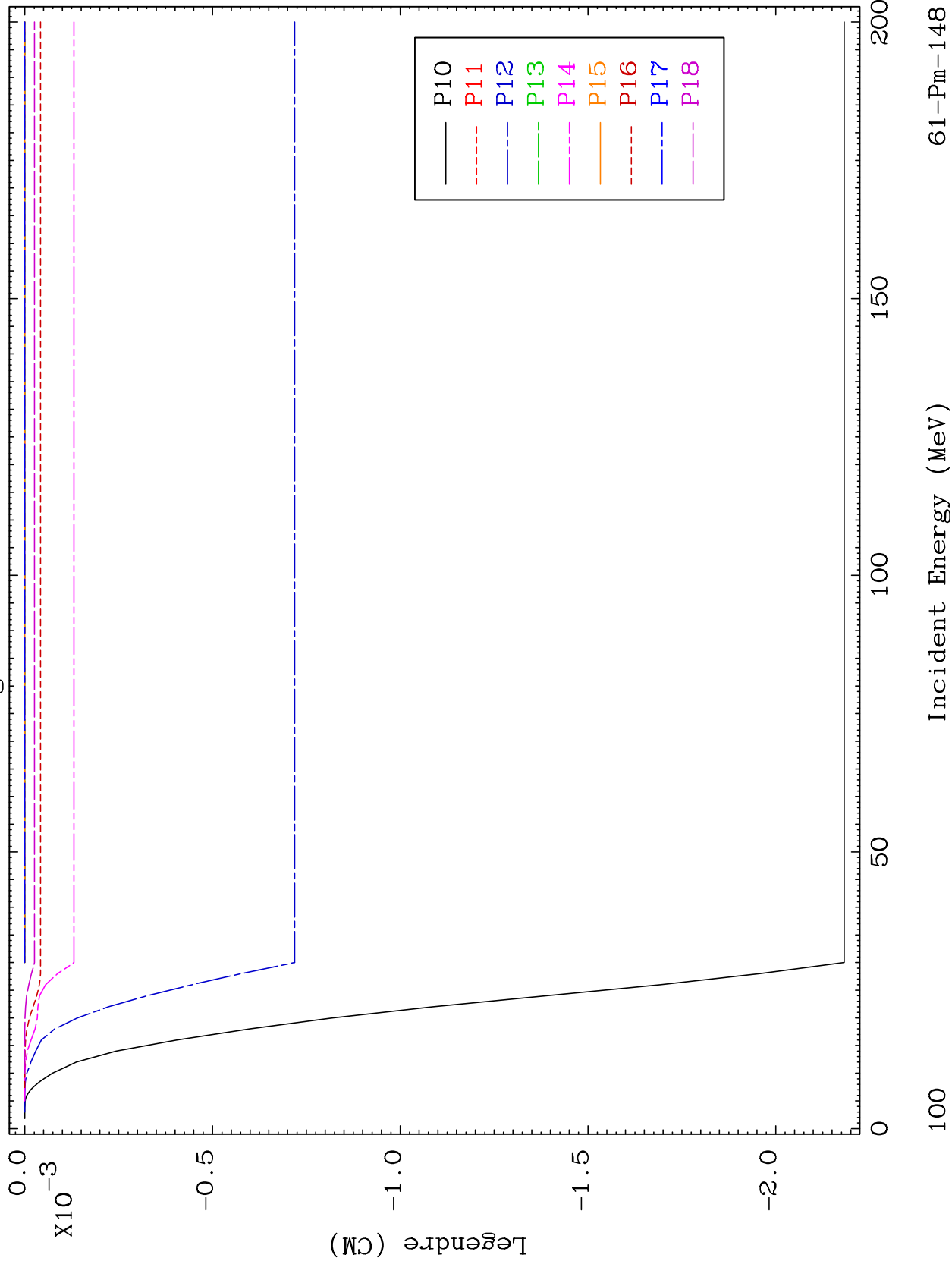


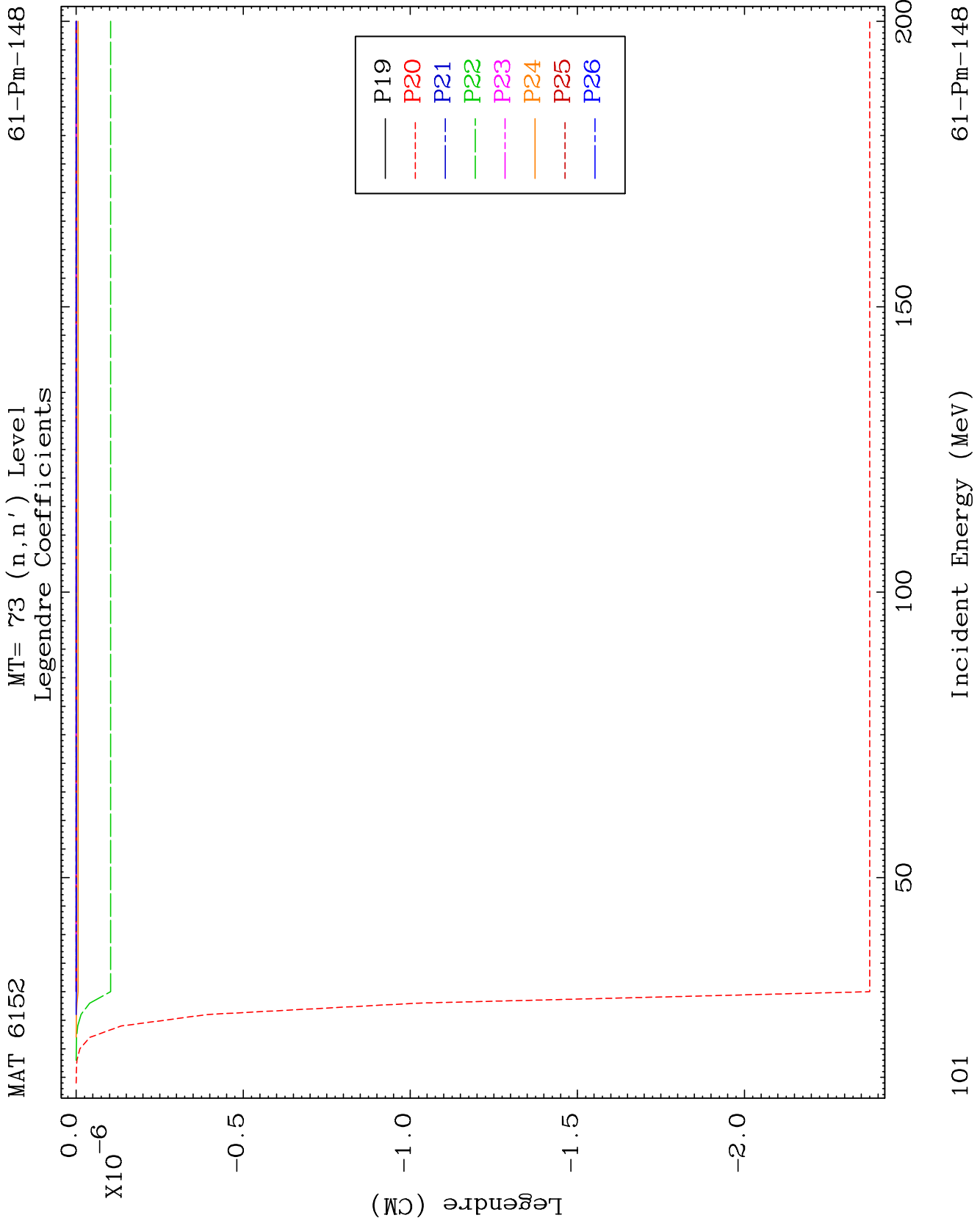


MAT 6152

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

61-Pm-148

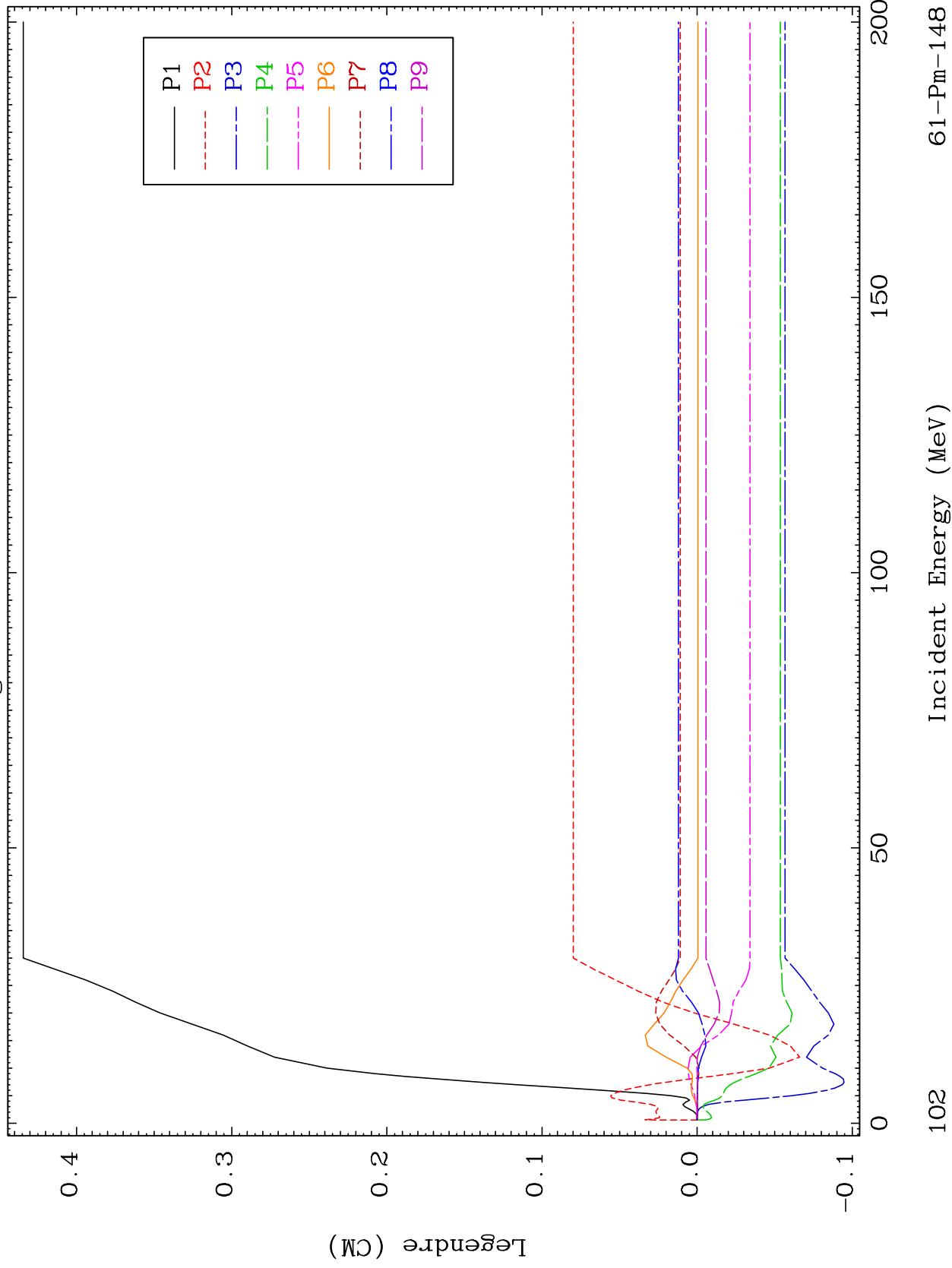




MAT 6152

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

61-Pm-148



61-Pm-148

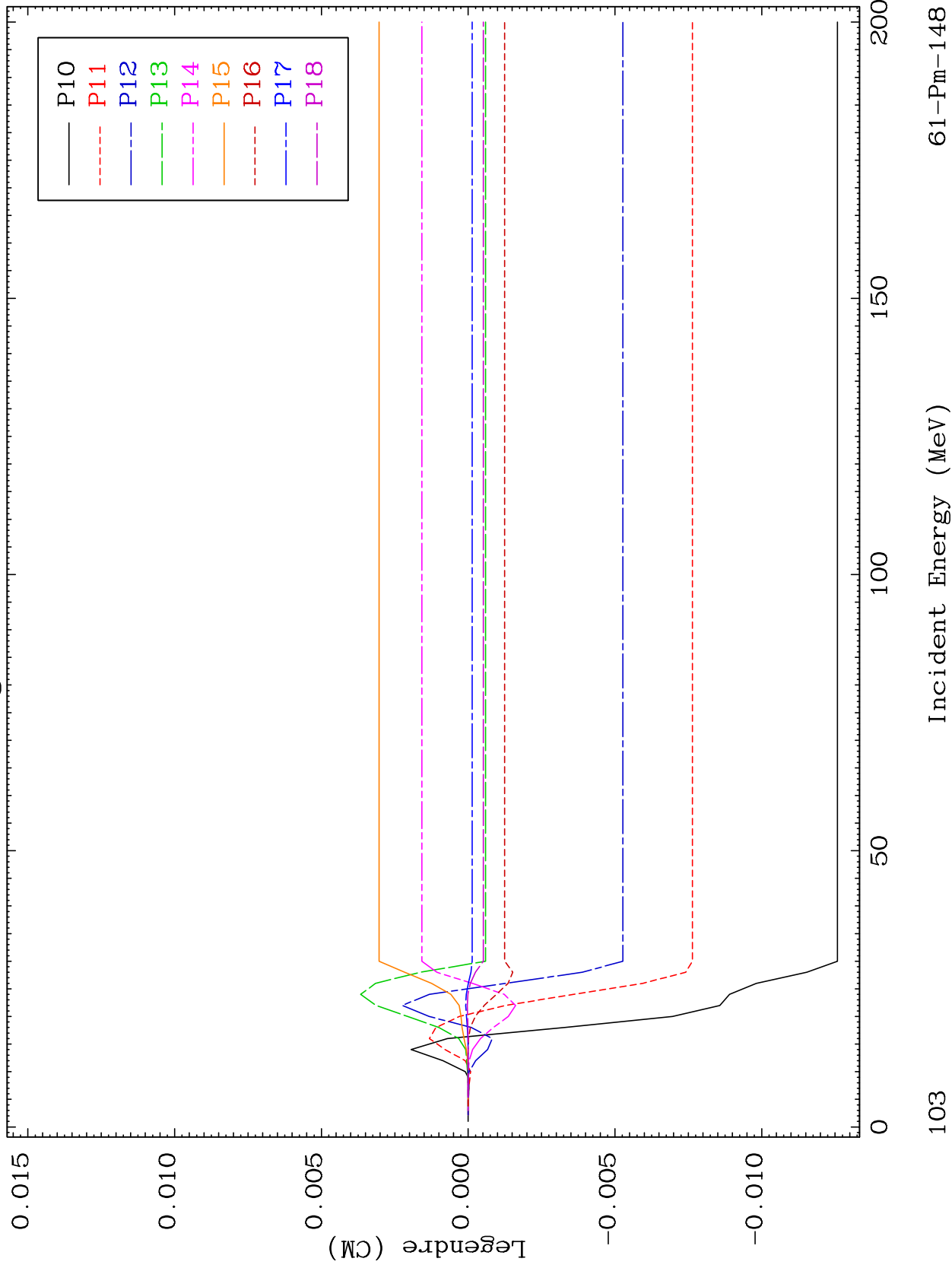
Incident Energy (MeV)

102

MAT 6152

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

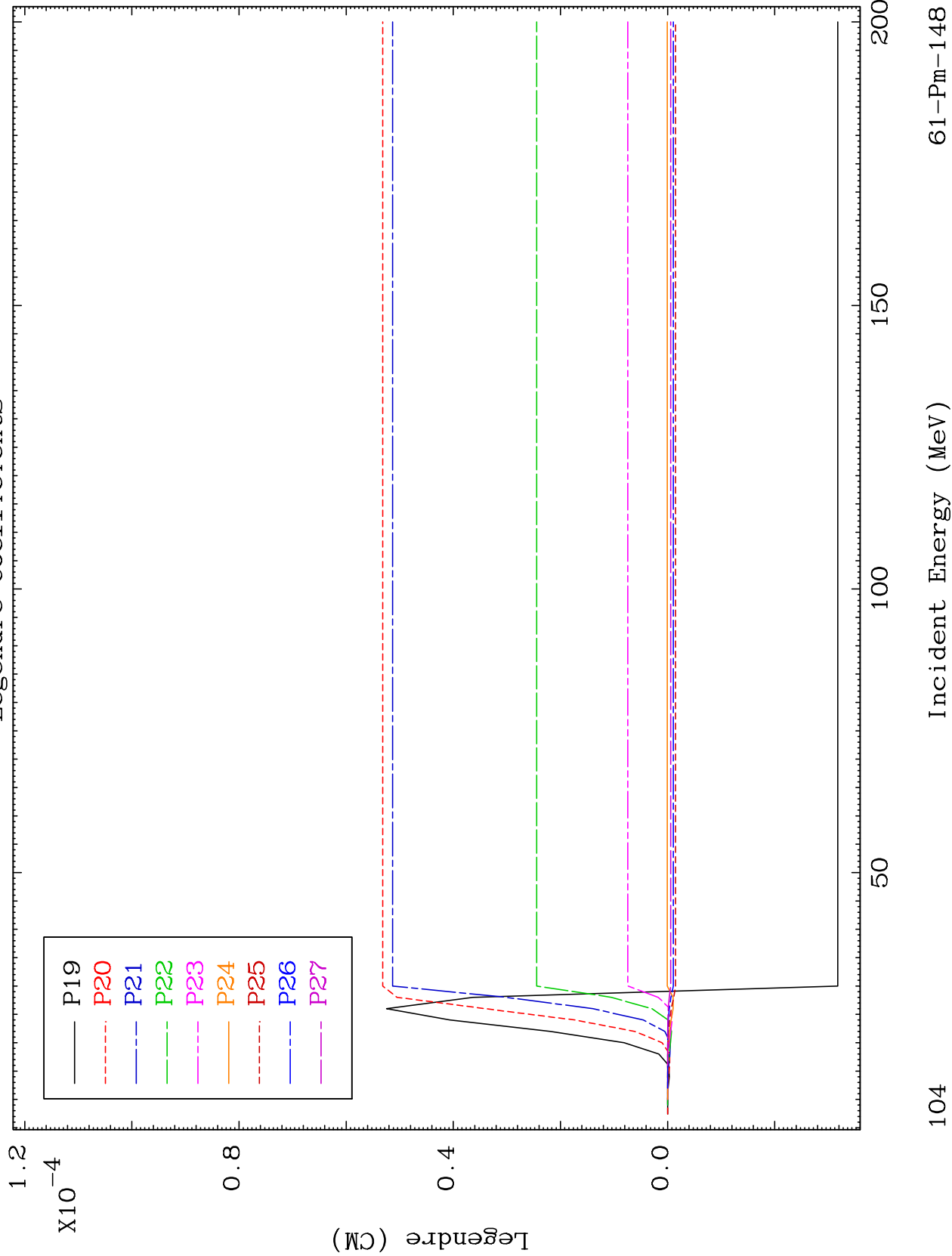
61-Pm-148

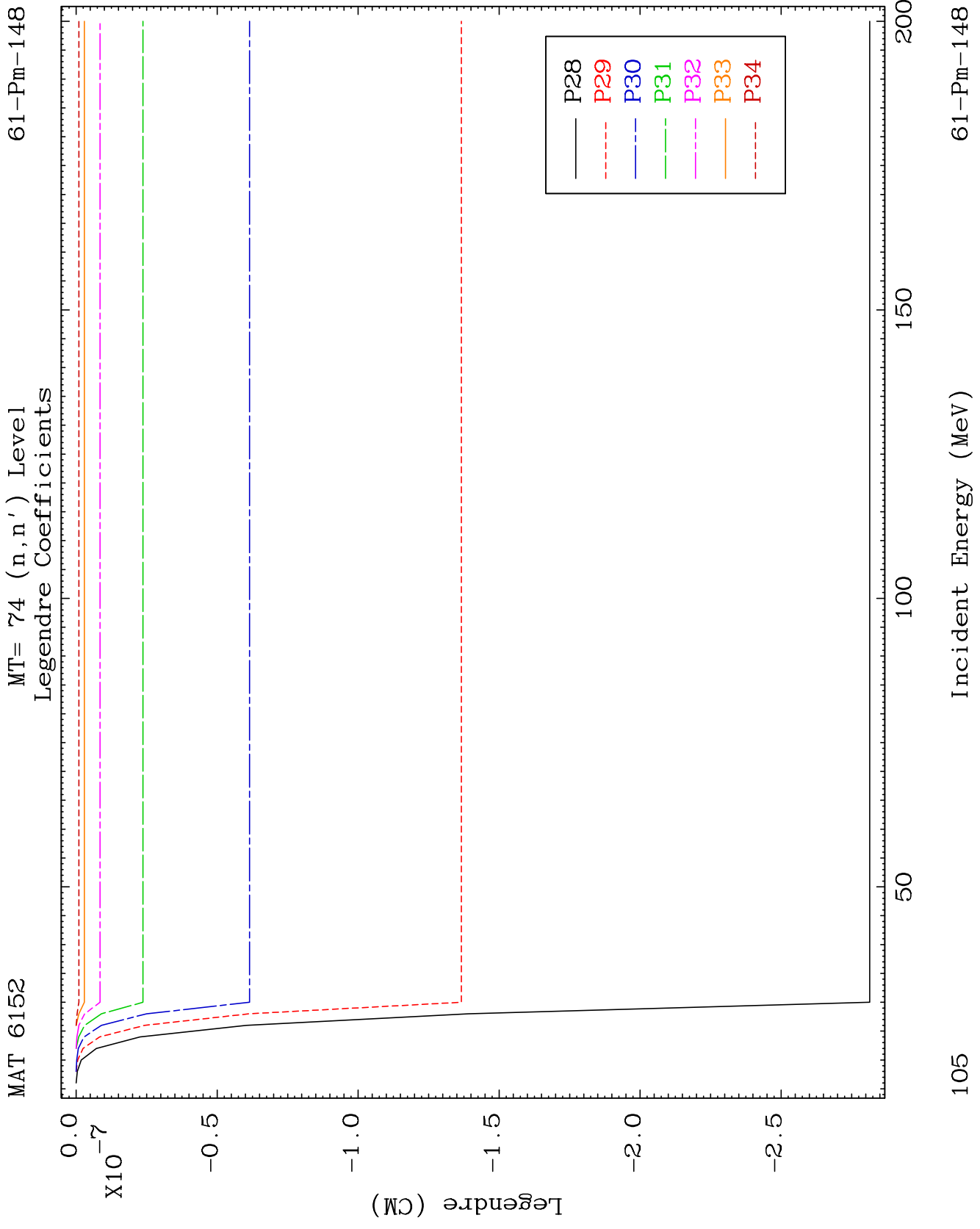


61-Pm-148

Incident Energy (MeV)

103

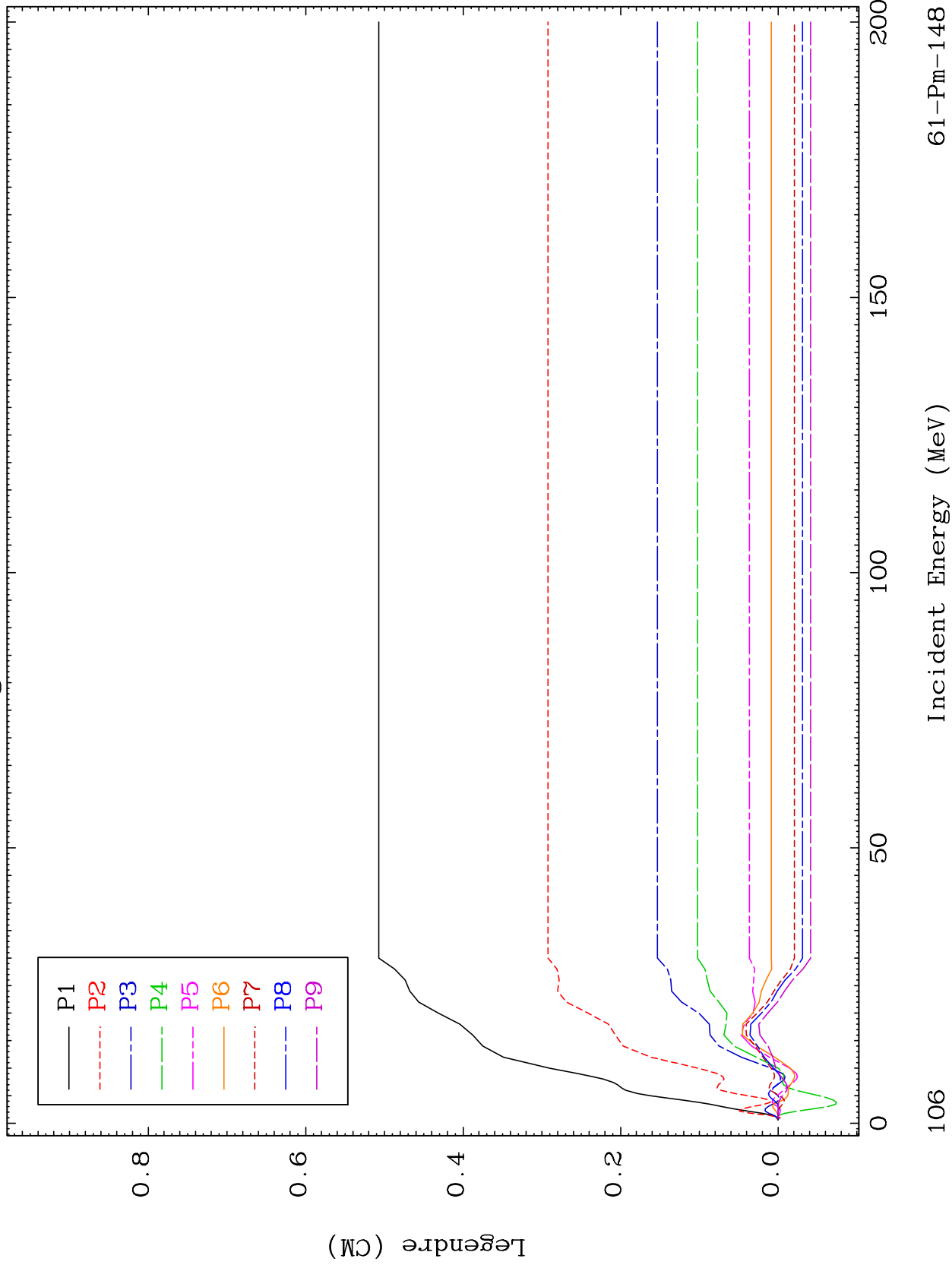




MAT 6152

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

61-Pm-148



61-Pm-148

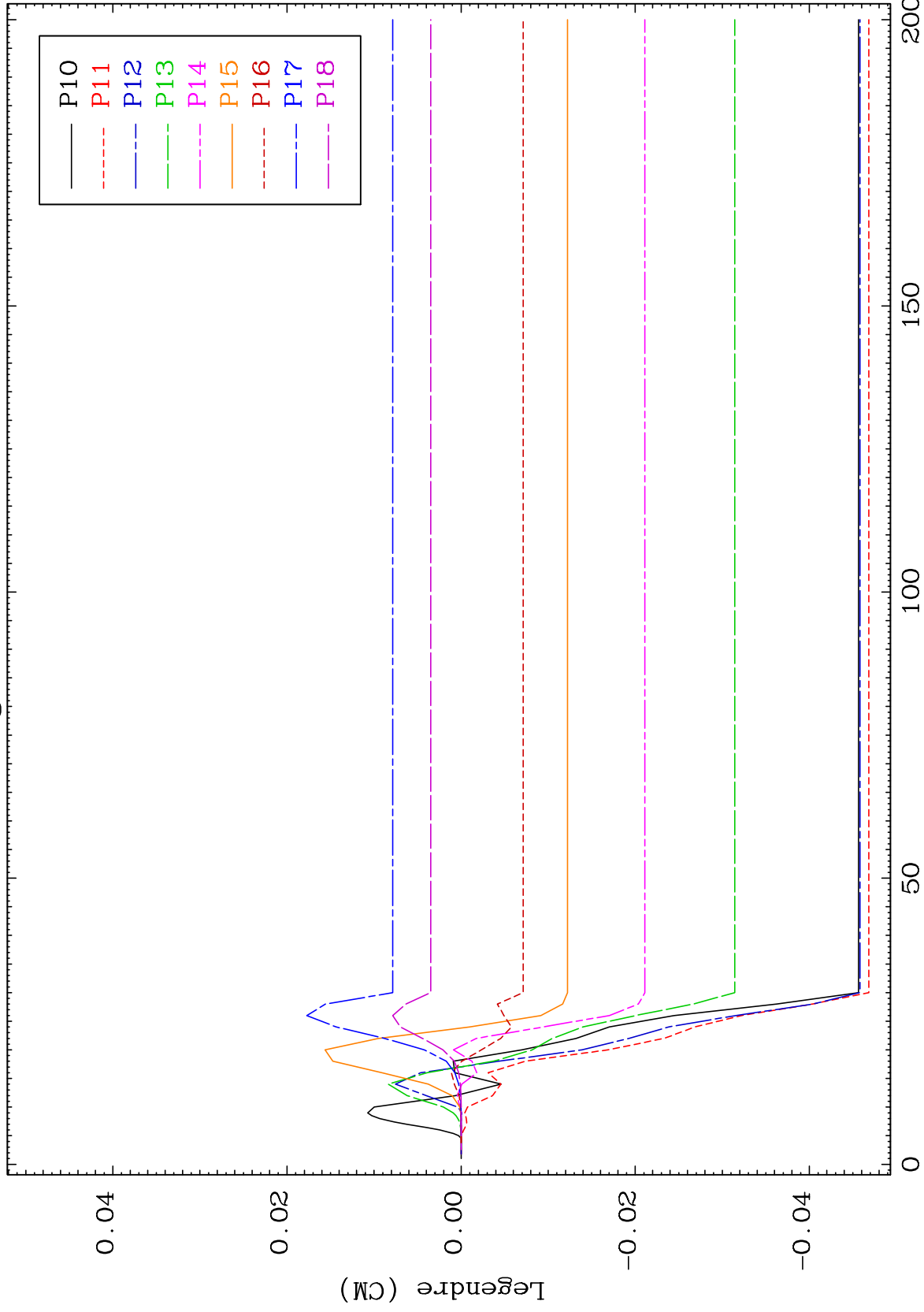
Incident Energy (MeV)

106

MAT 6152

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

61-Pm-148



107

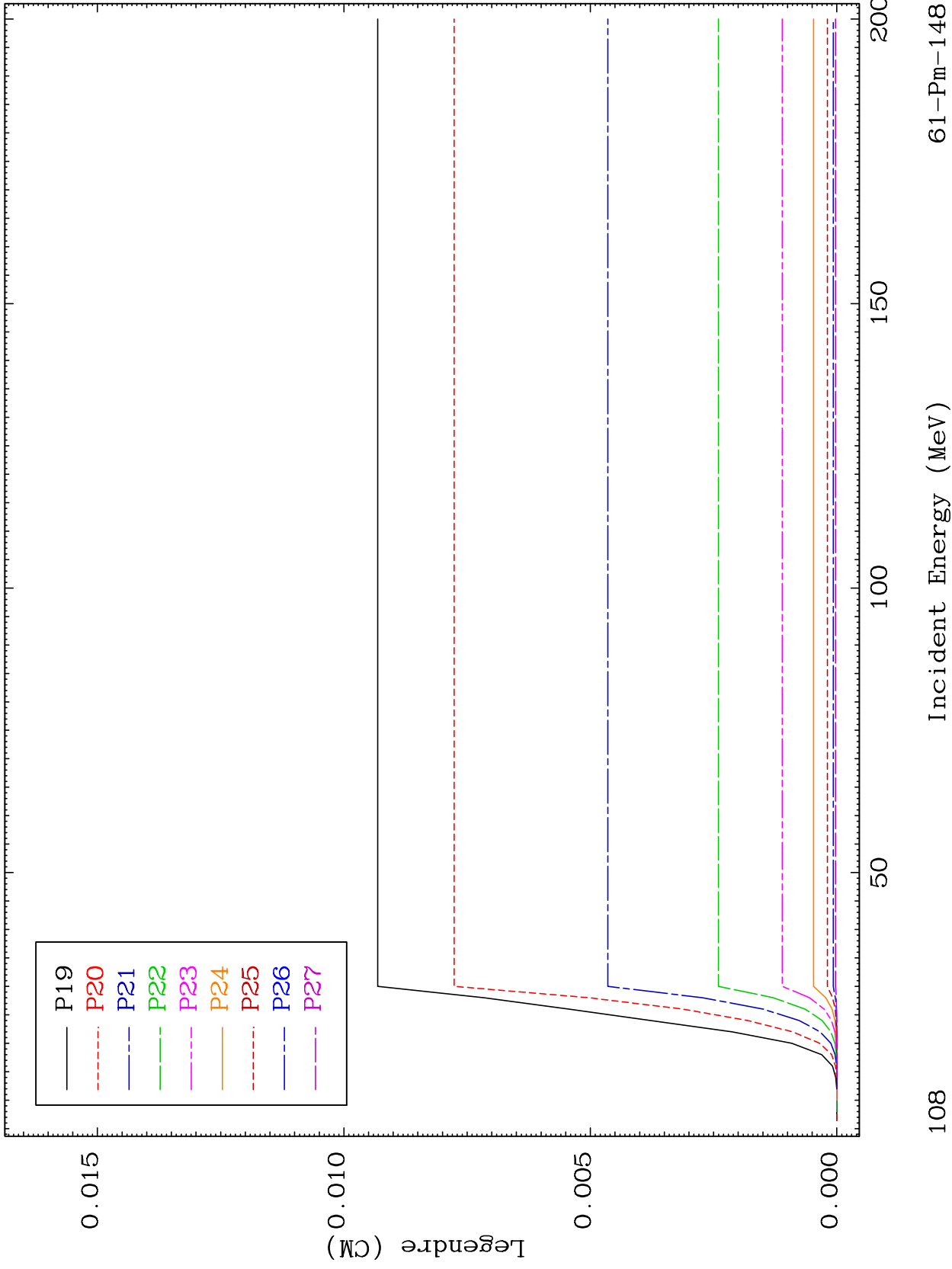
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



108

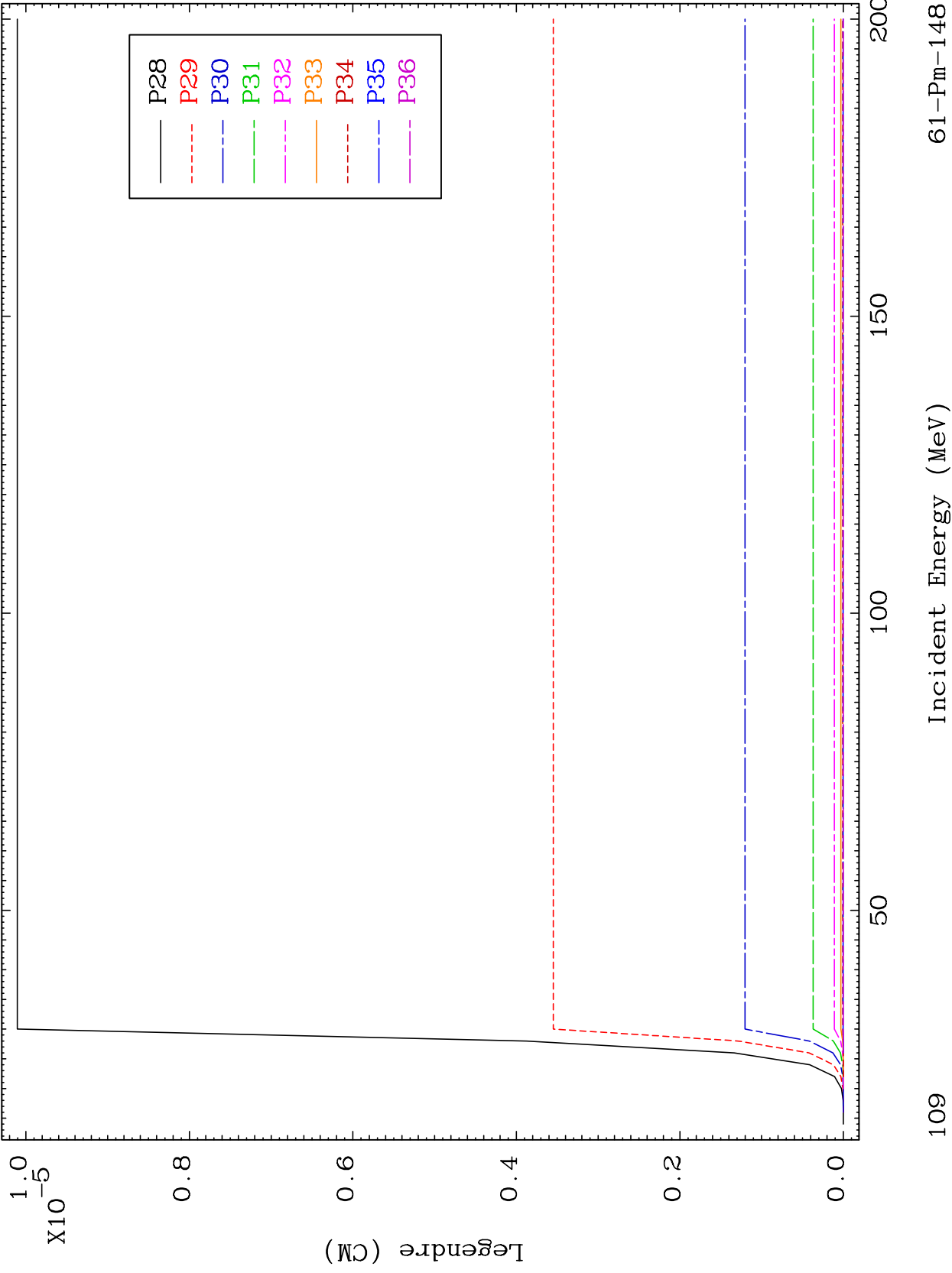
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



109

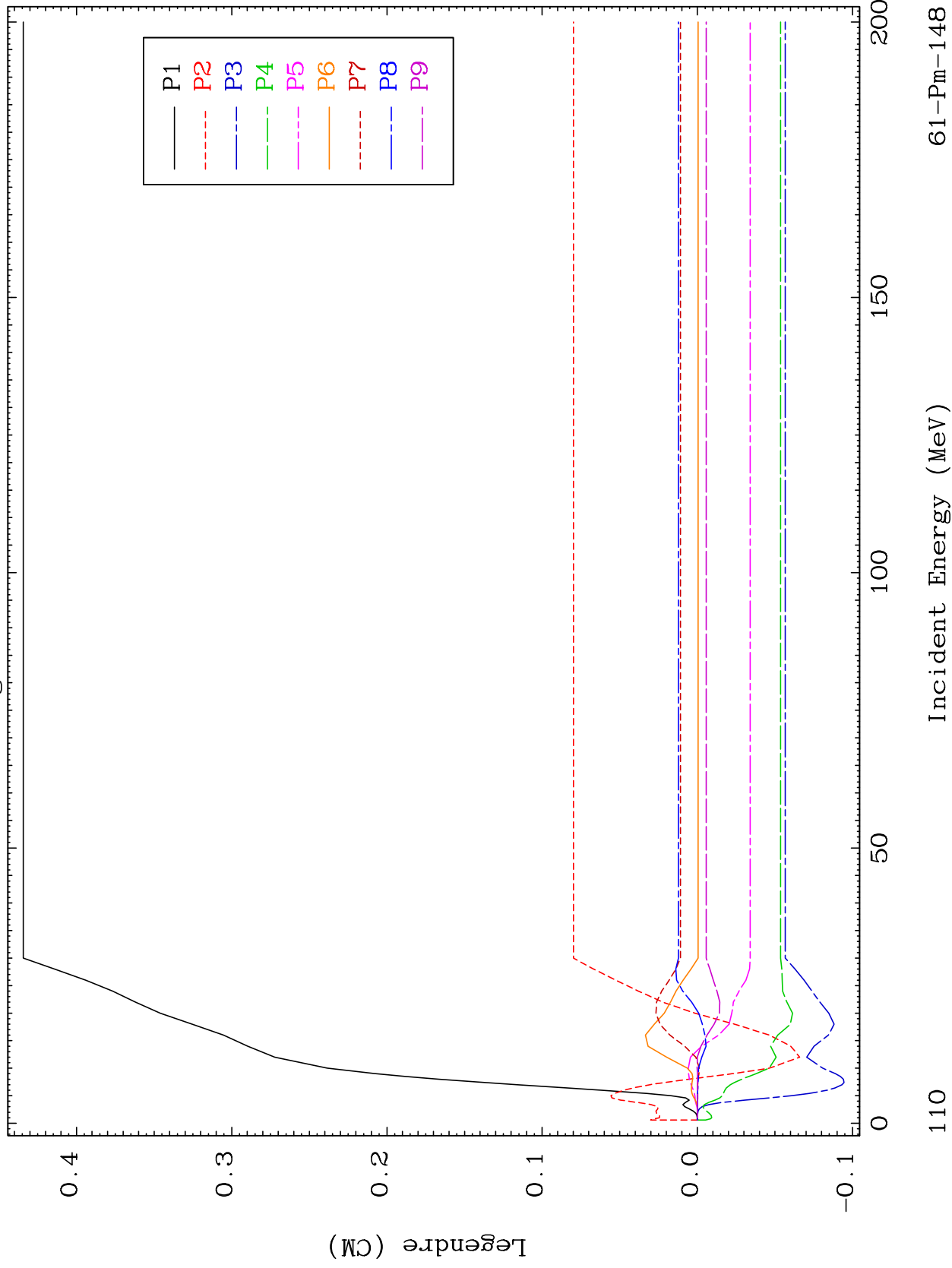
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

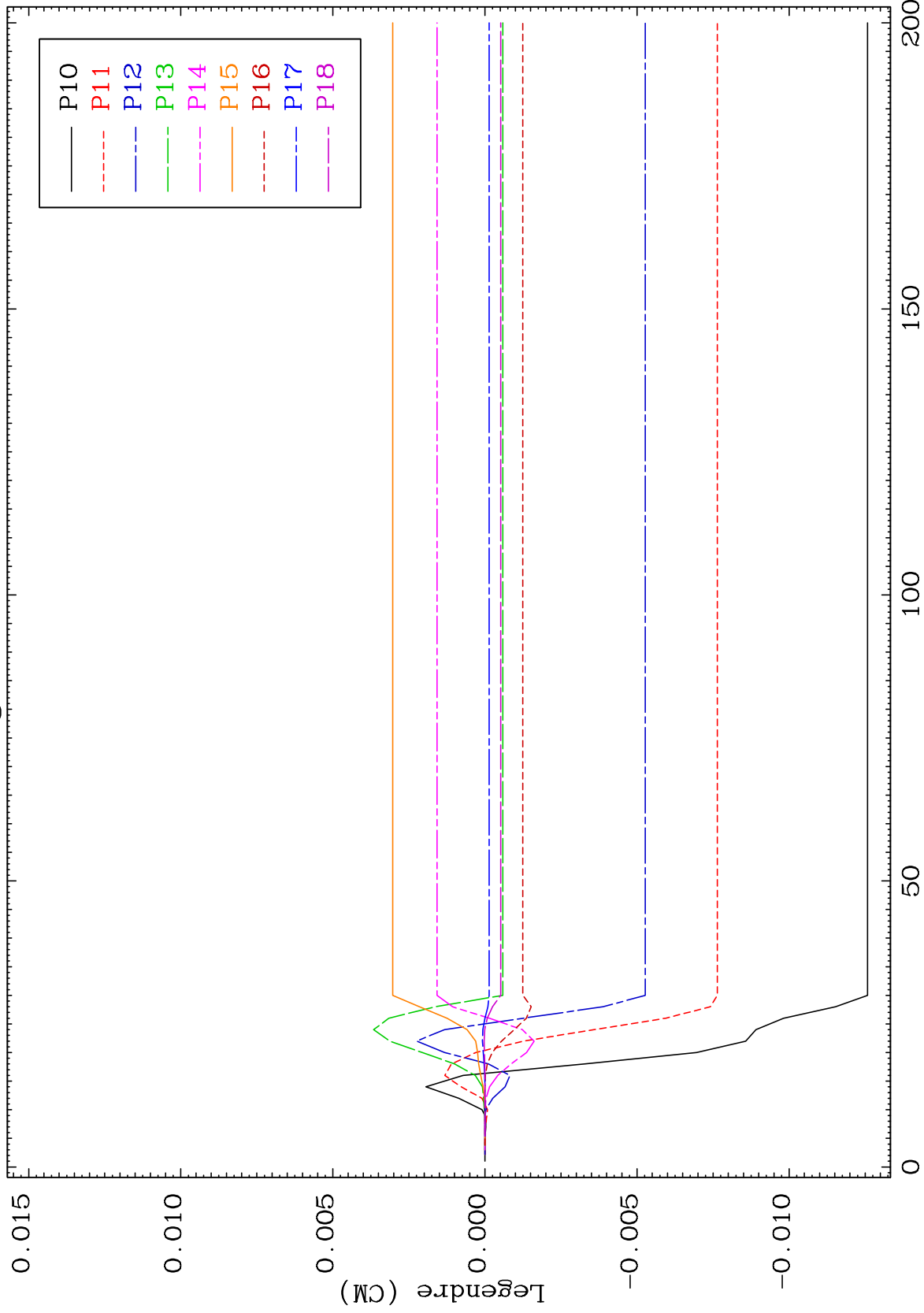
61-Pm-148



MAT 6152

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

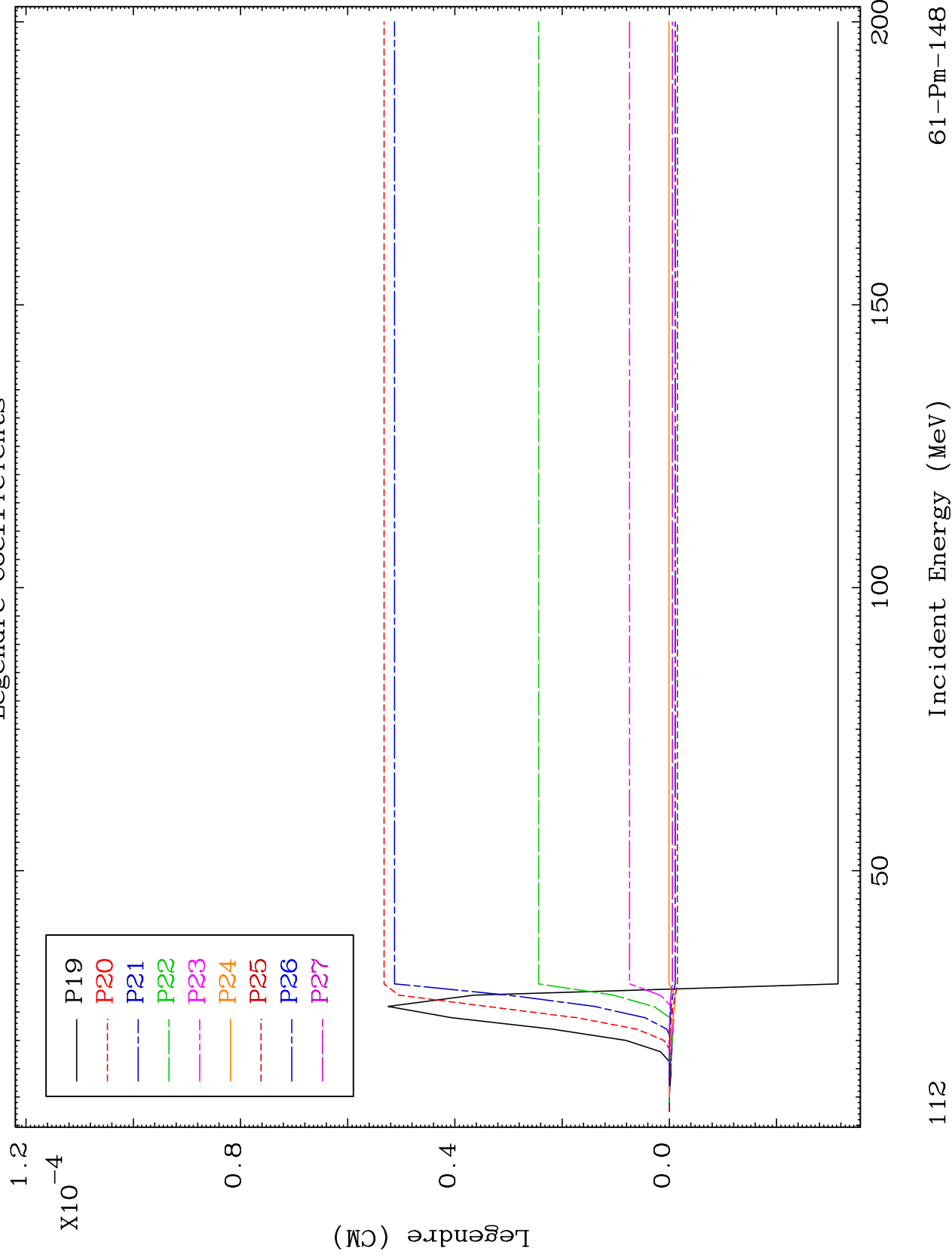
61-Pm-148



111

Incident Energy (MeV)

61-Pm-148

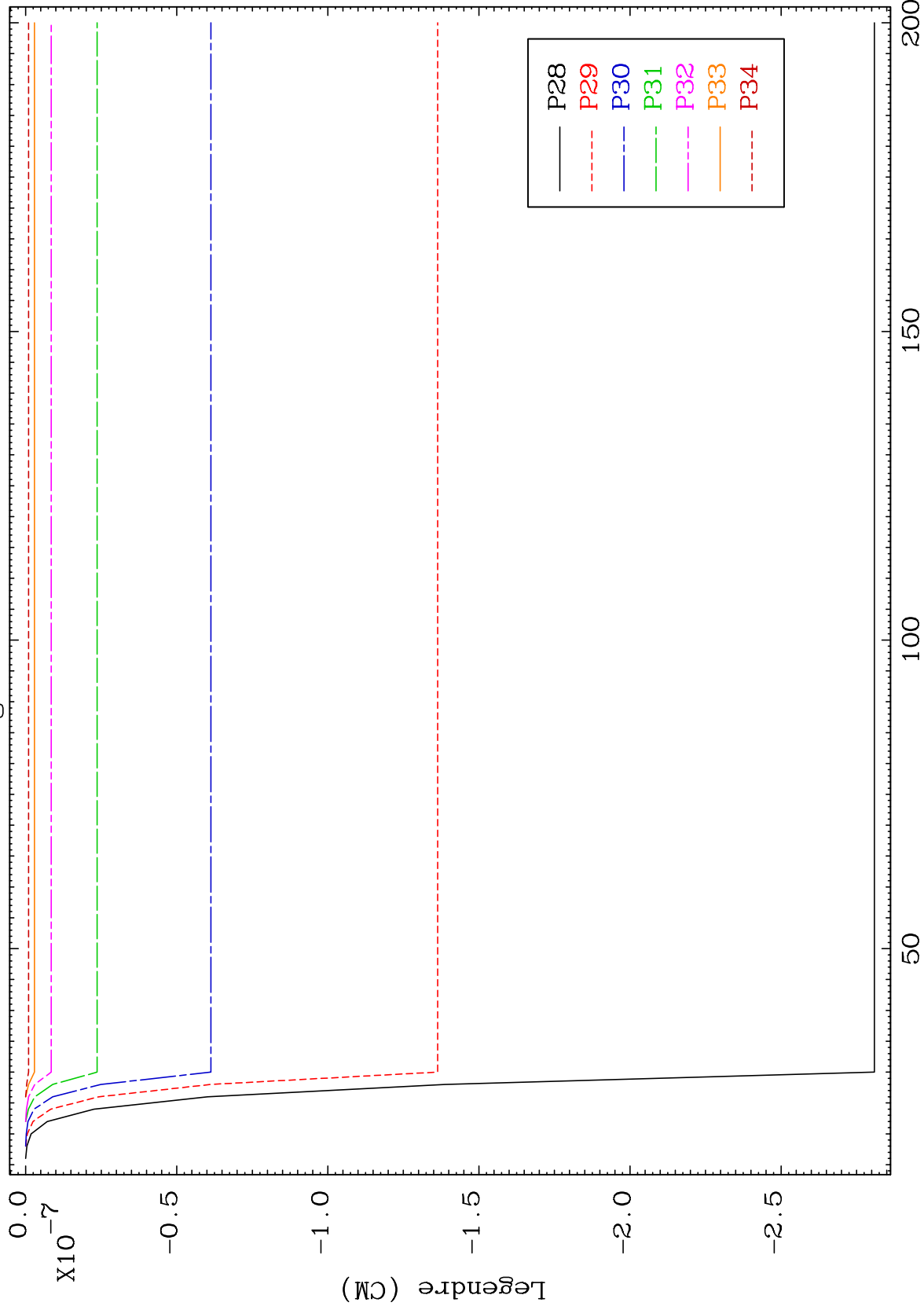


MAT 6152

MT= 76 (n,n') Level

61-Pm-148

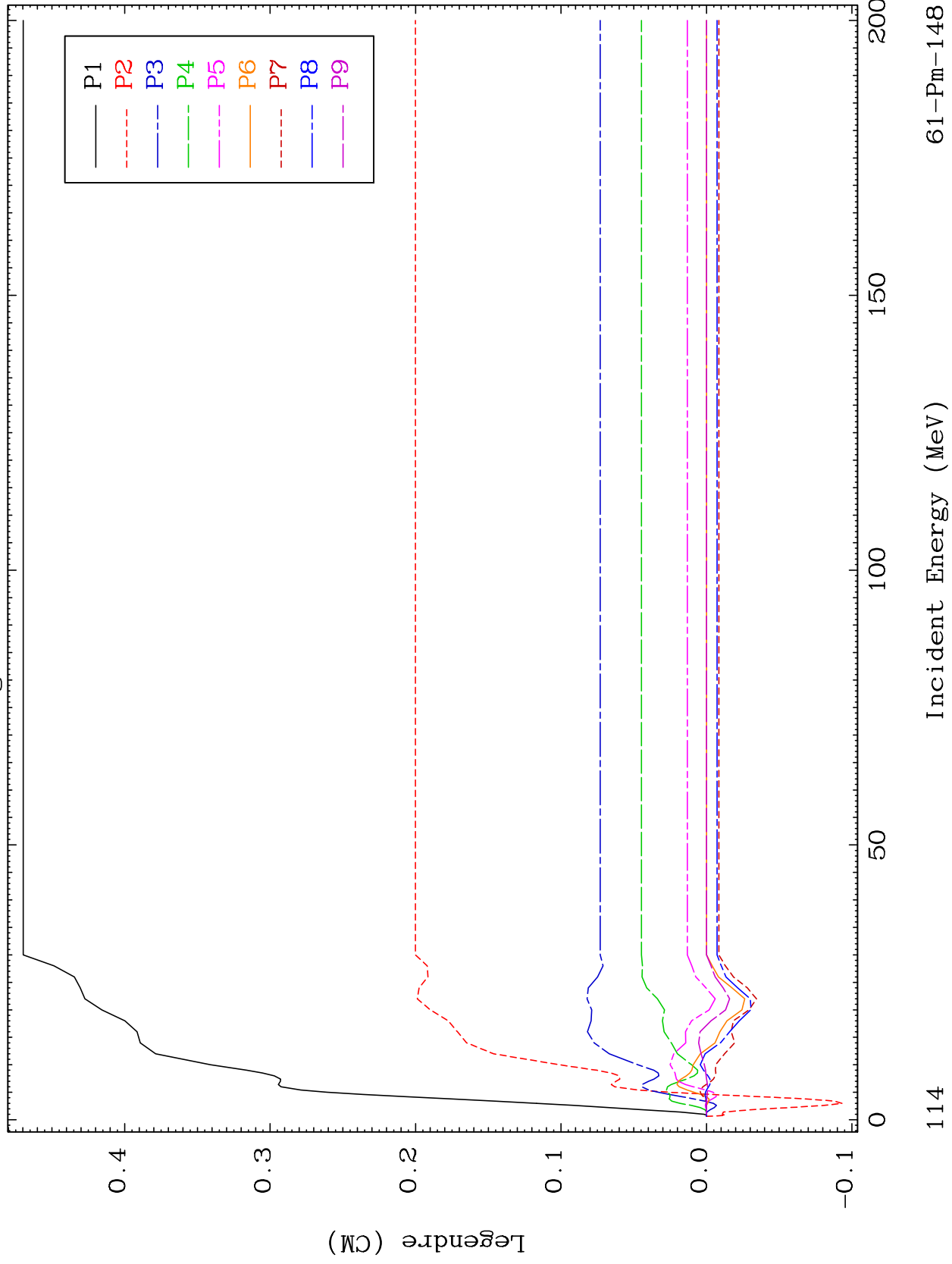
Legendre Coefficients



MAT 6152

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

61-Pm-148



61-Pm-148

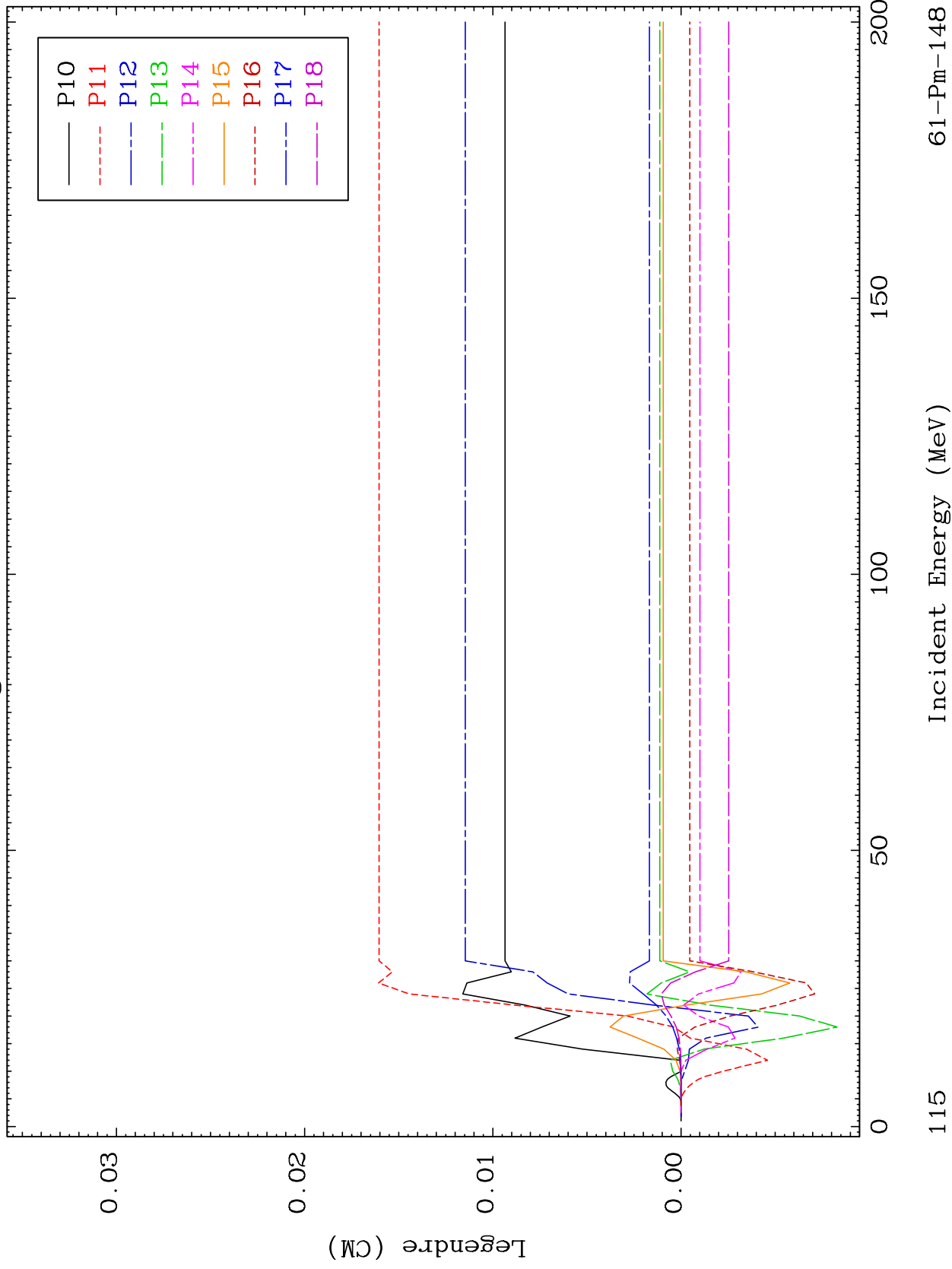
Incident Energy (MeV)

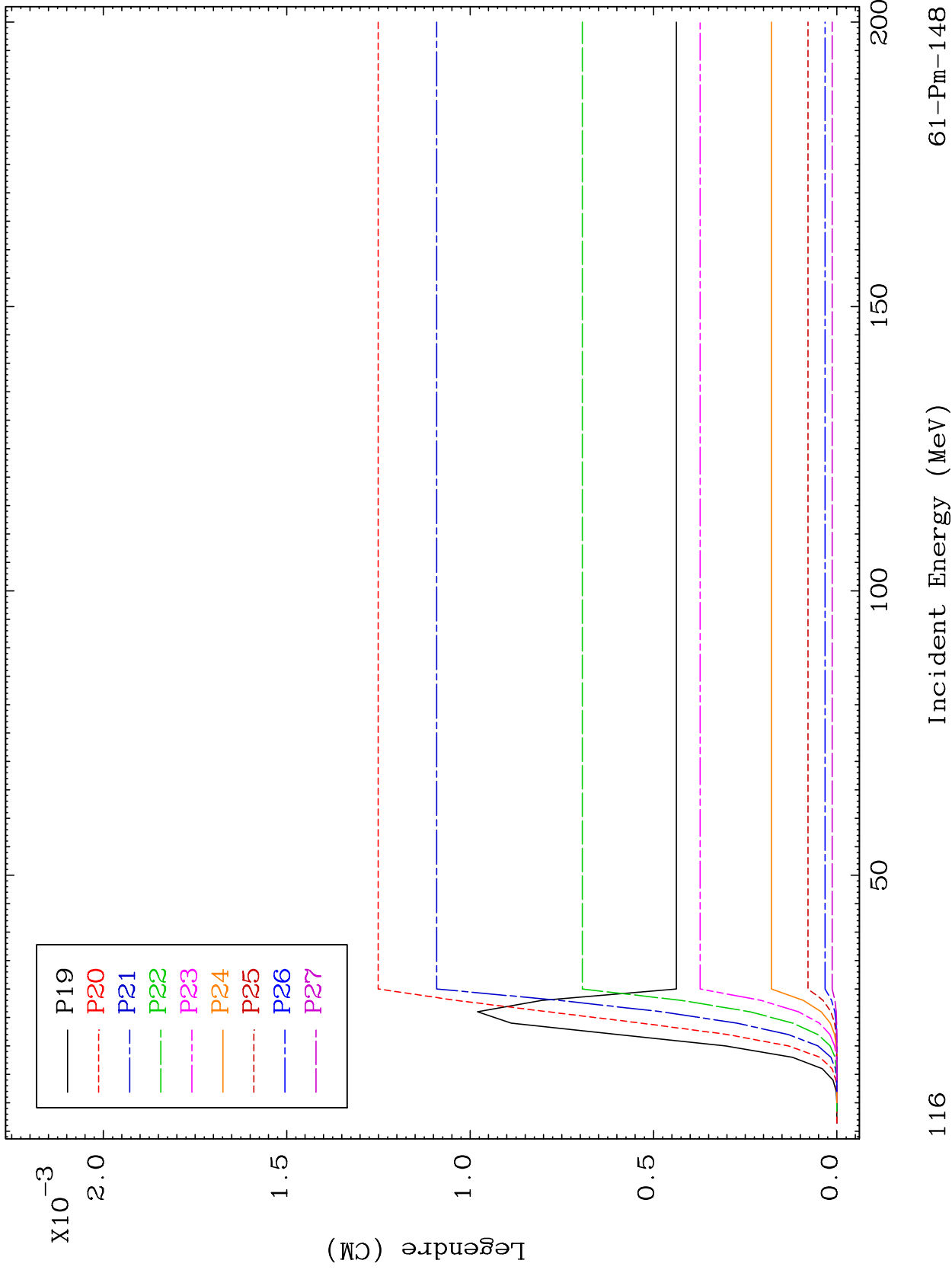
114

MAT 6152

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

61-Pm-148

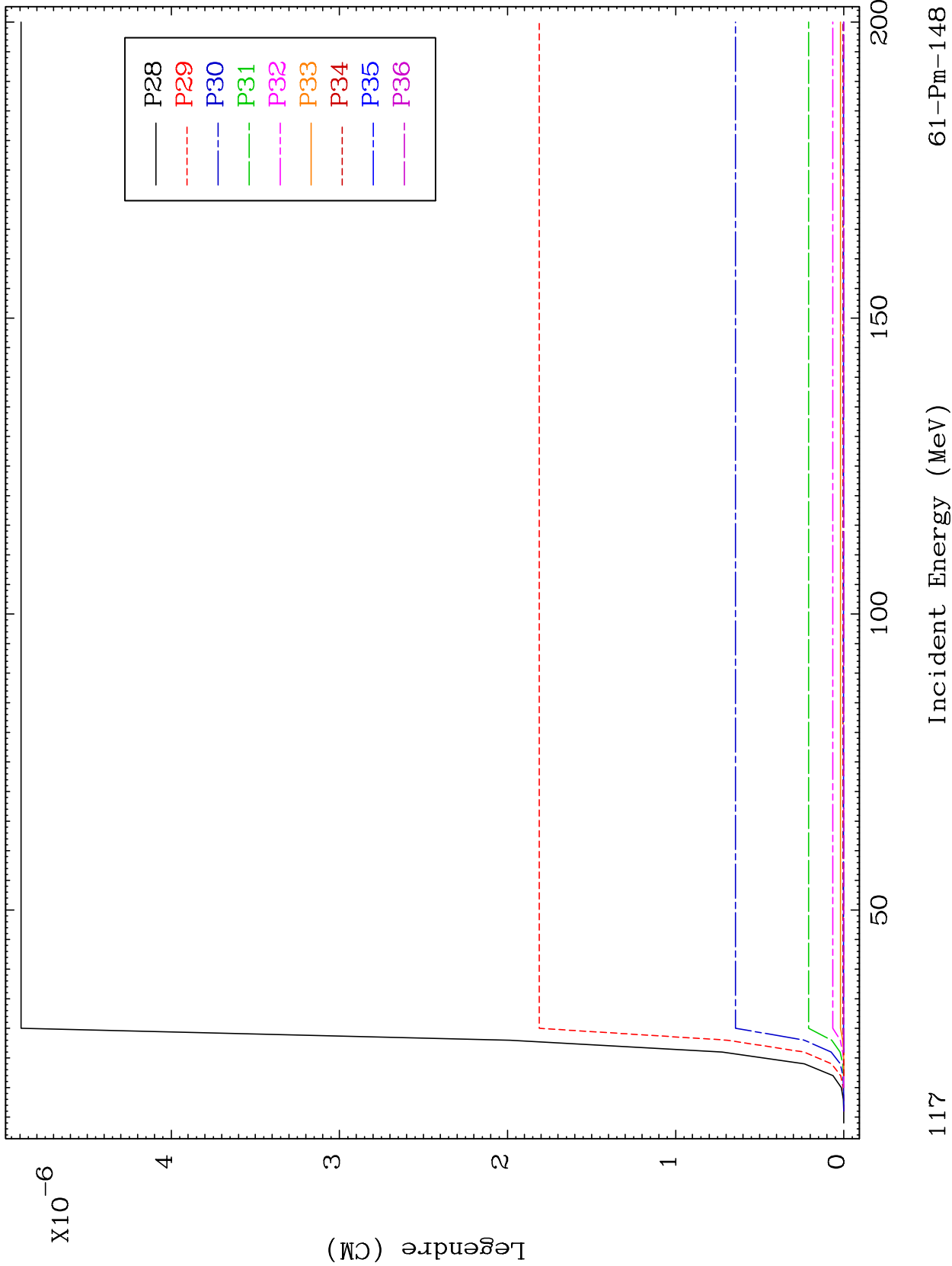




MAT 6152

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

61-Pm-148

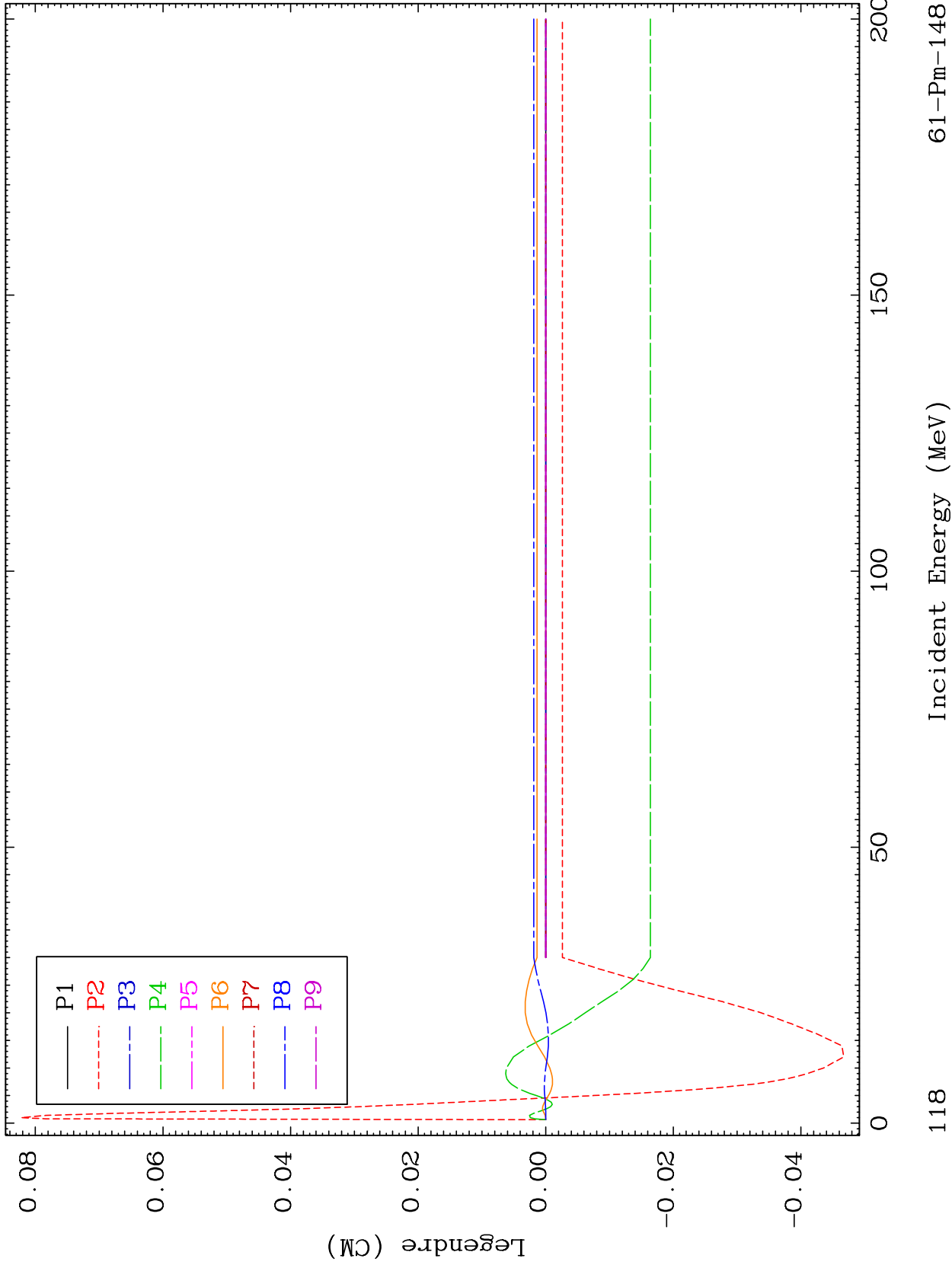


117

MAT 6152

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

61-Pm-148



118

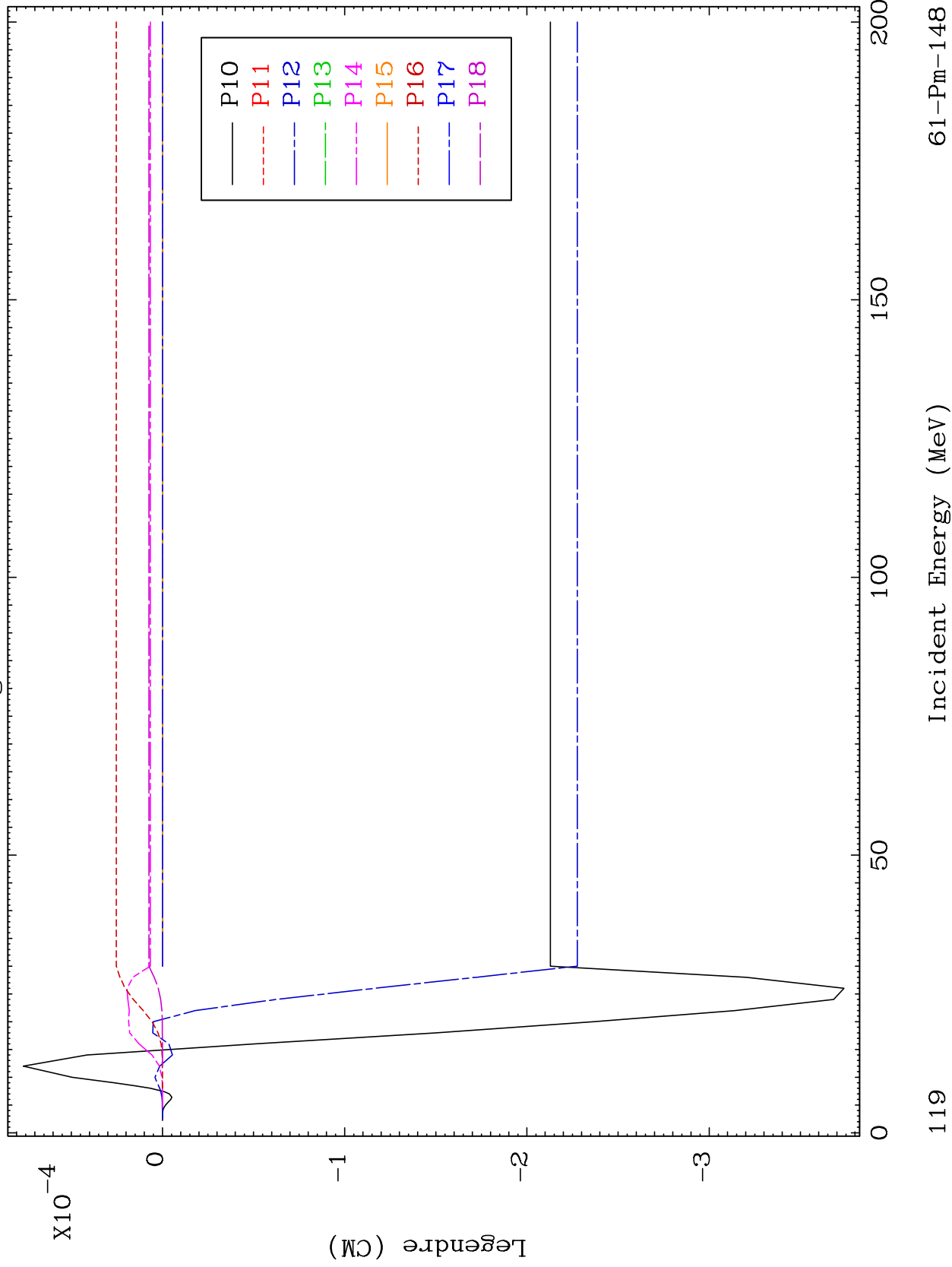
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

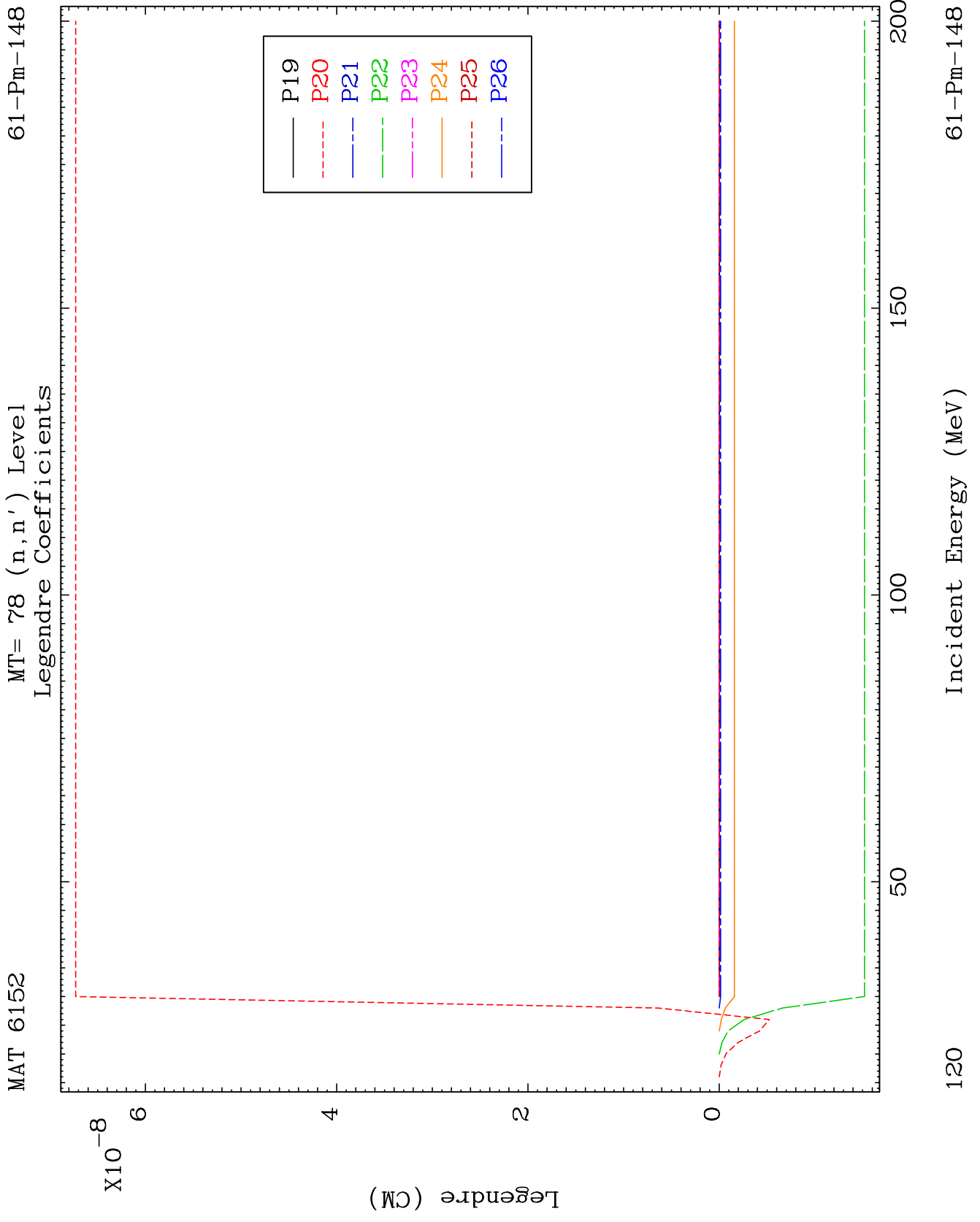
61-Pm-148



119

Incident Energy (MeV)

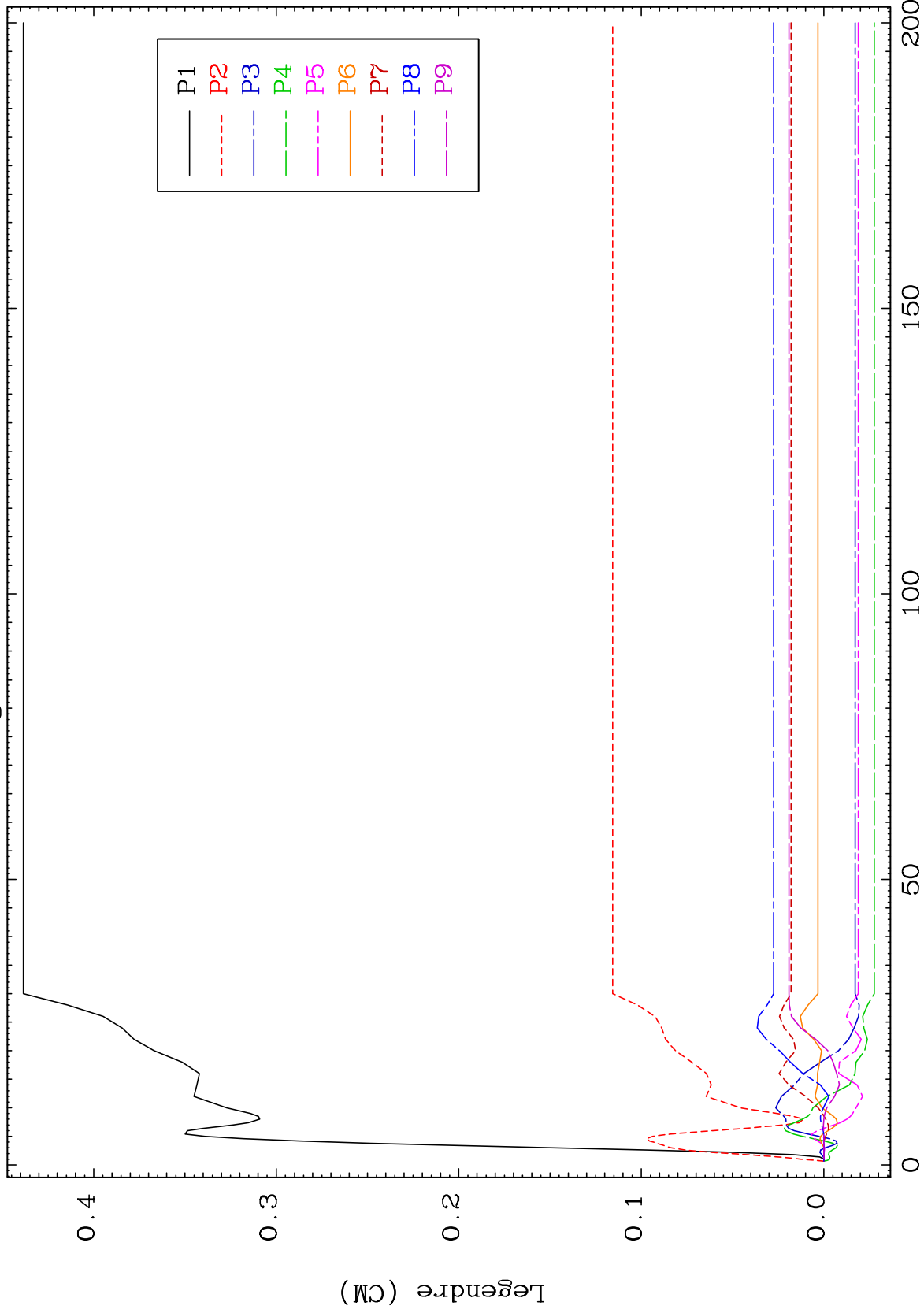
61-Pm-148



MAT 6152

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

61-Pm-148



61-Pm-148

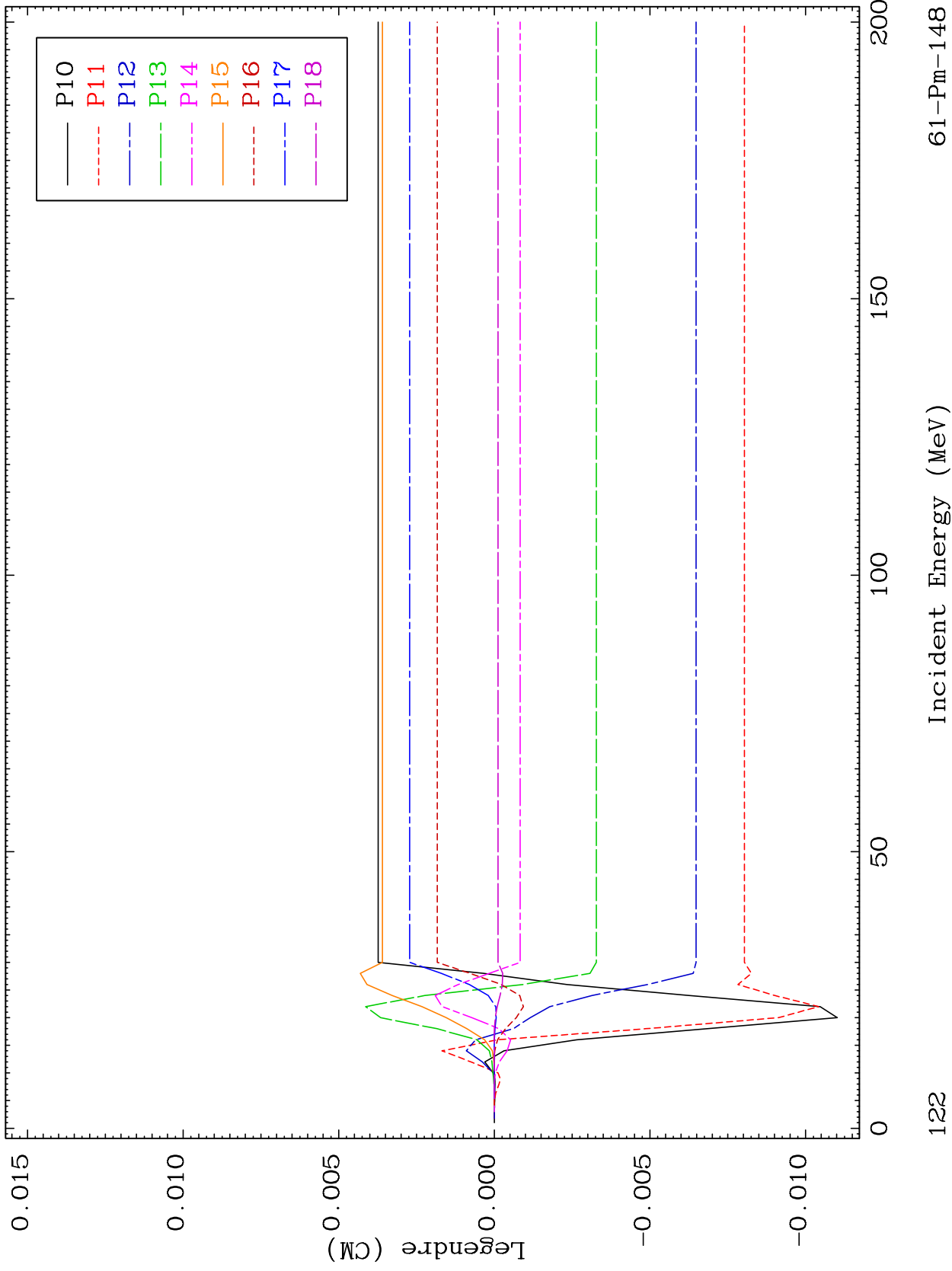
Incident Energy (MeV)

121

MAT 6152

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

61-Pm-148



122

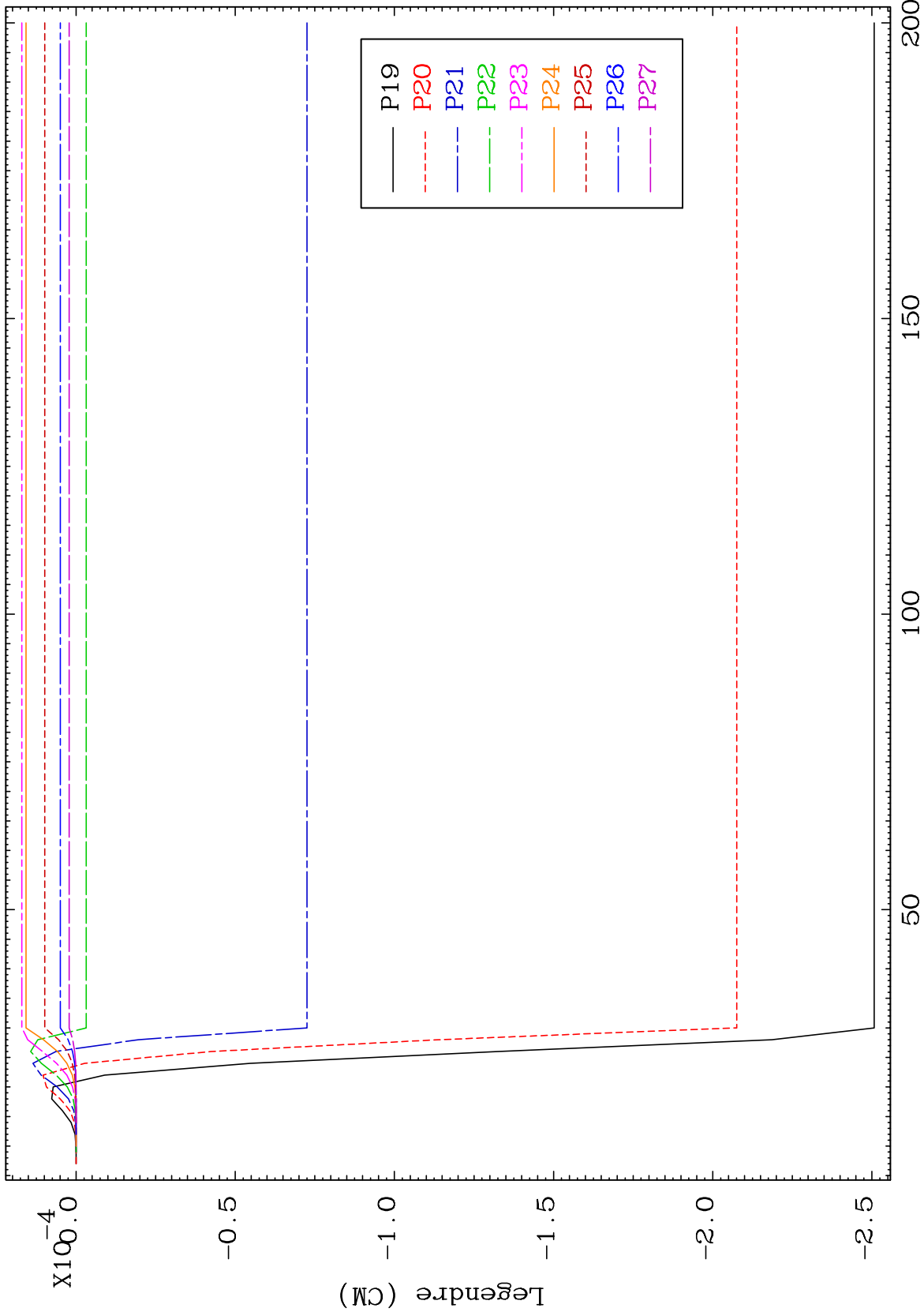
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



123

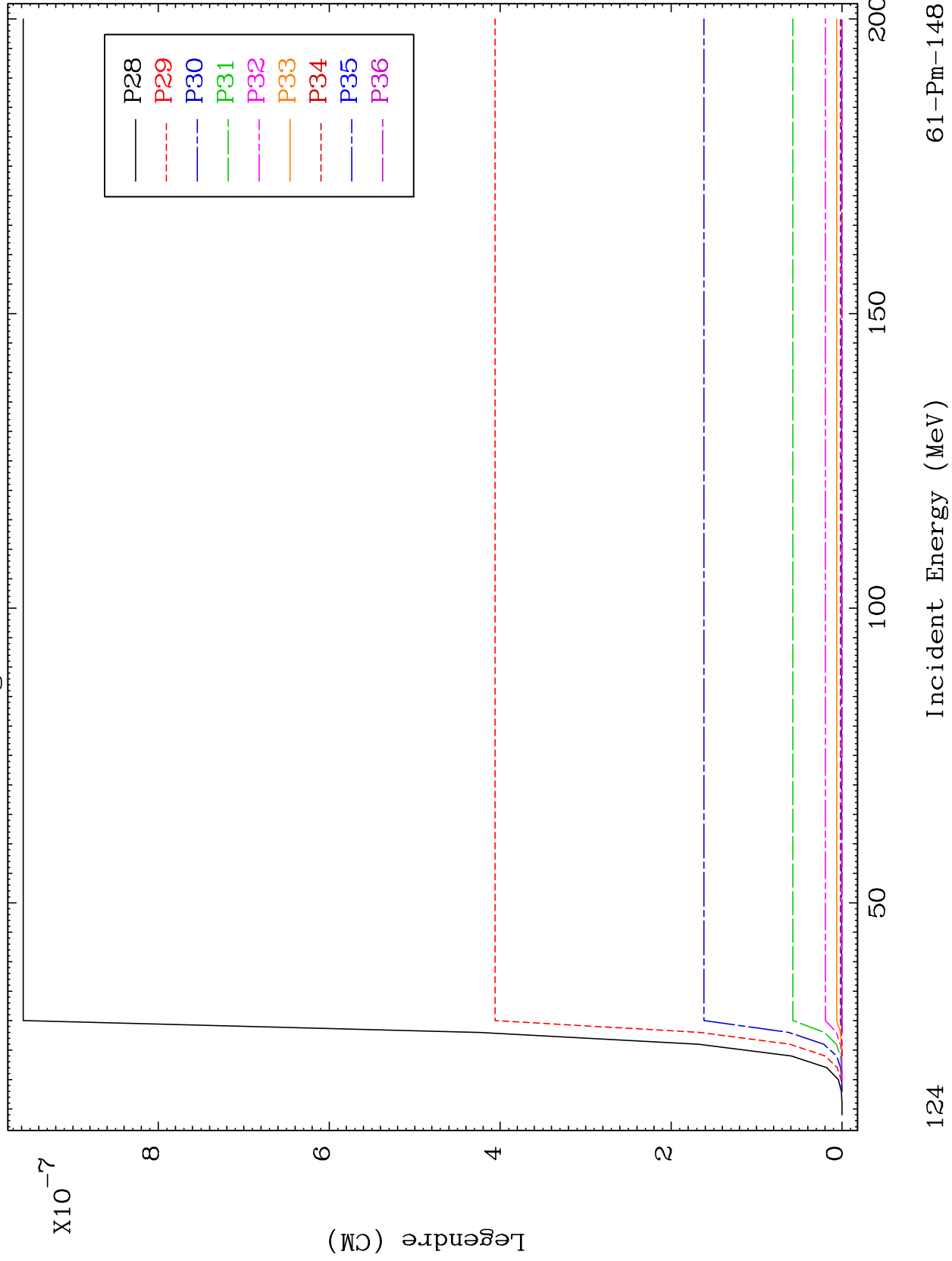
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

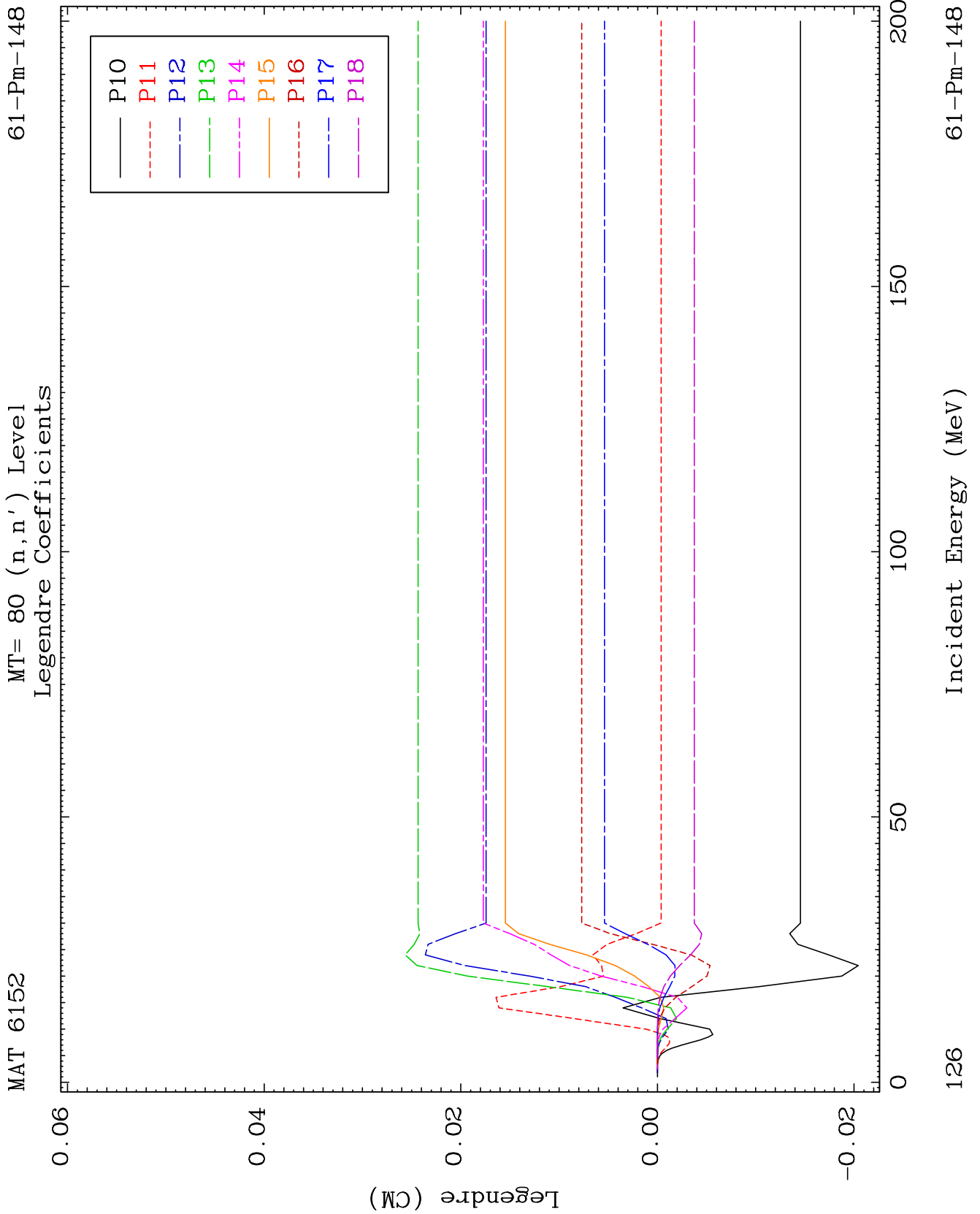
61-Pm-148



124

Incident Energy (MeV)

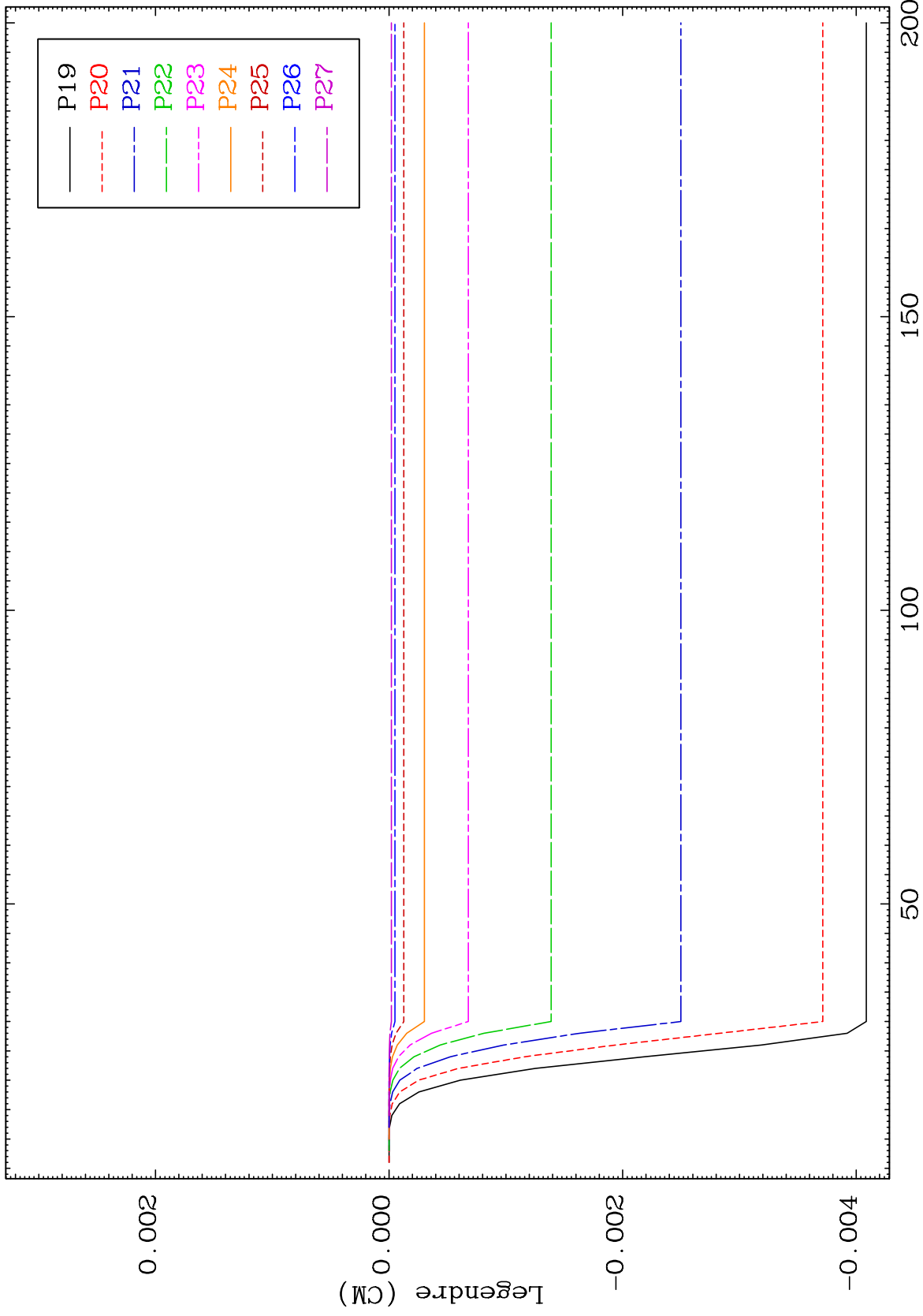
61-Pm-148



MAT 6152

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

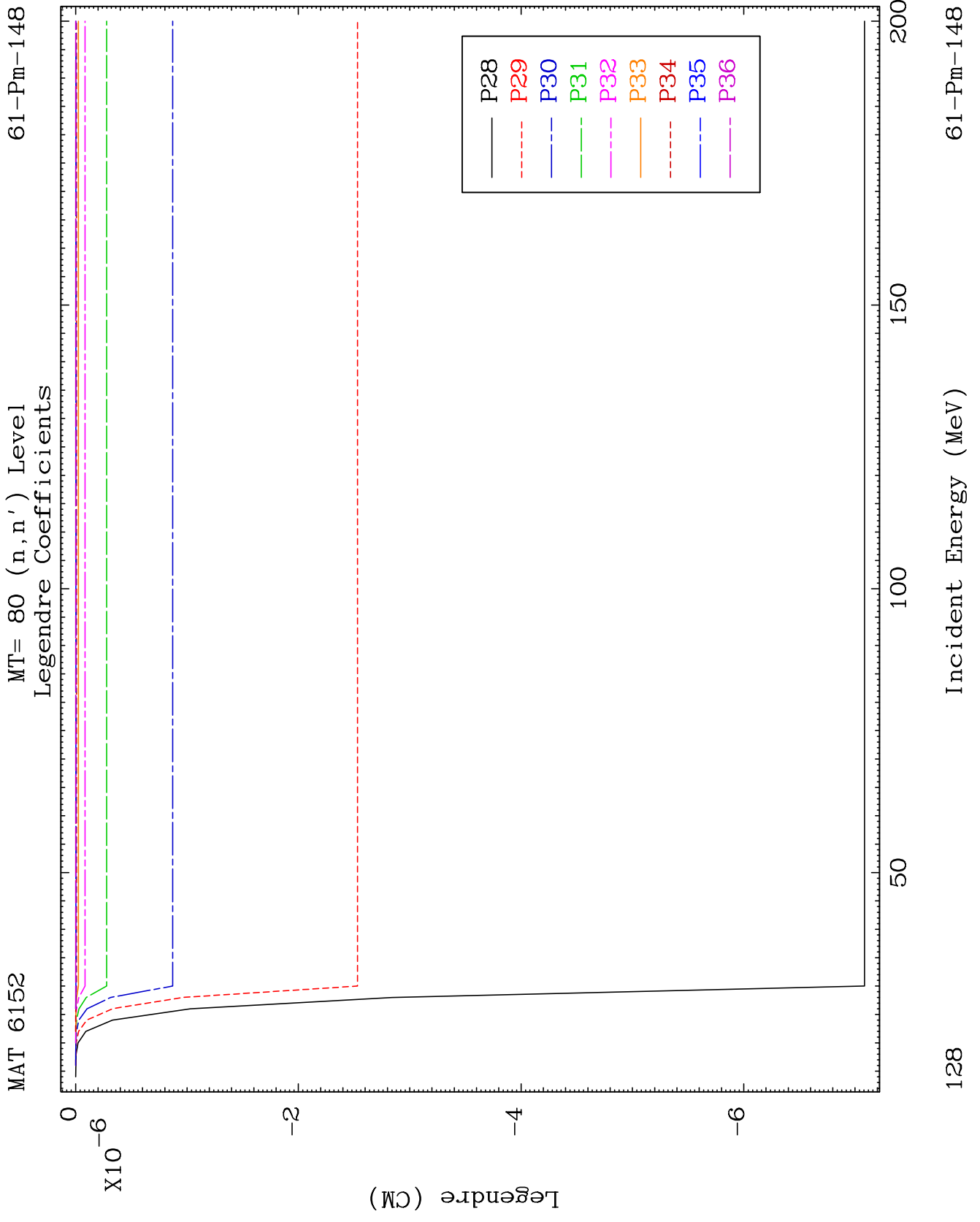
61-Pm-148



127

Incident Energy (MeV)

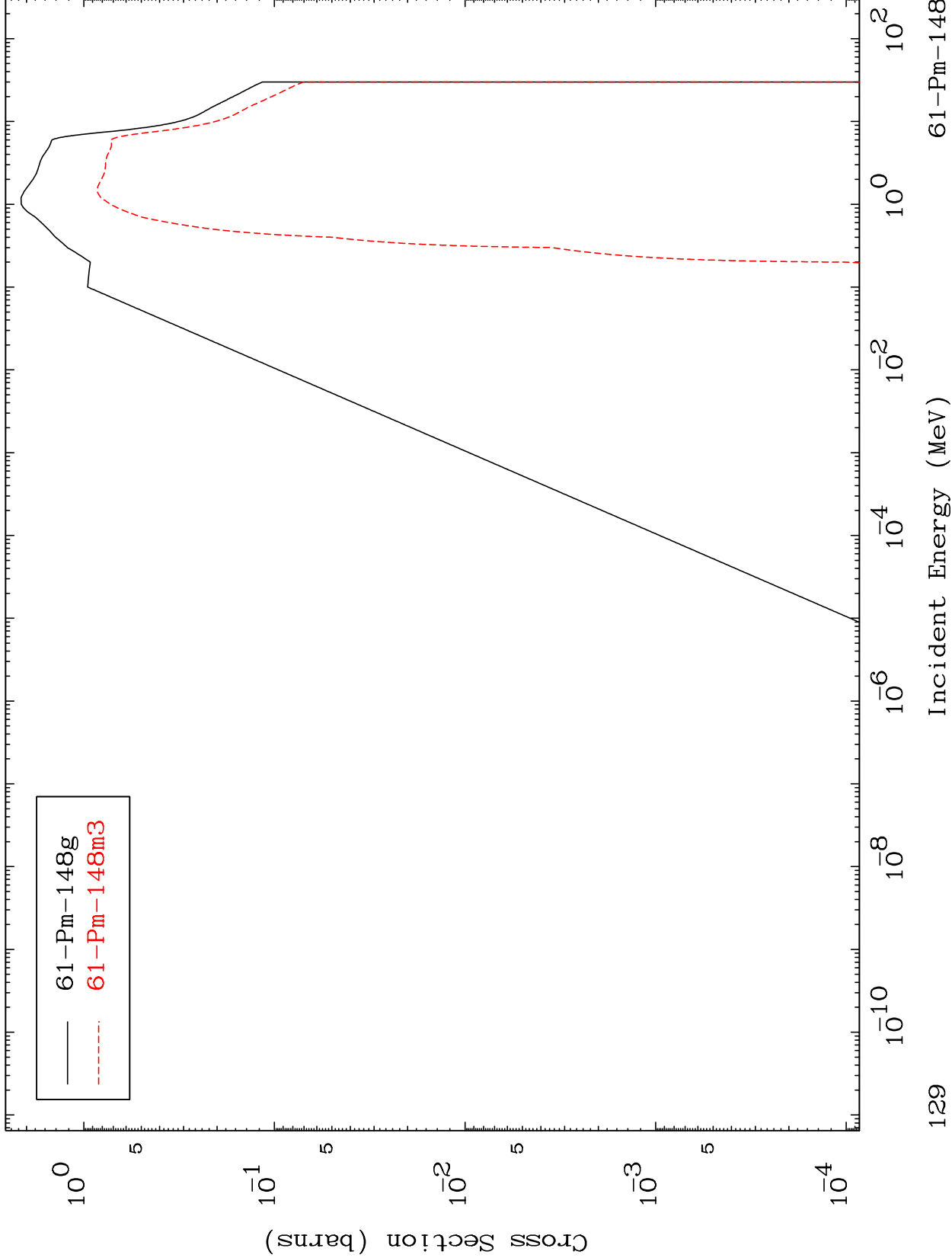
61-Pm-148



MAT 6152

Inelastic
Radionuclide Production Cross Section

61-Pm-148

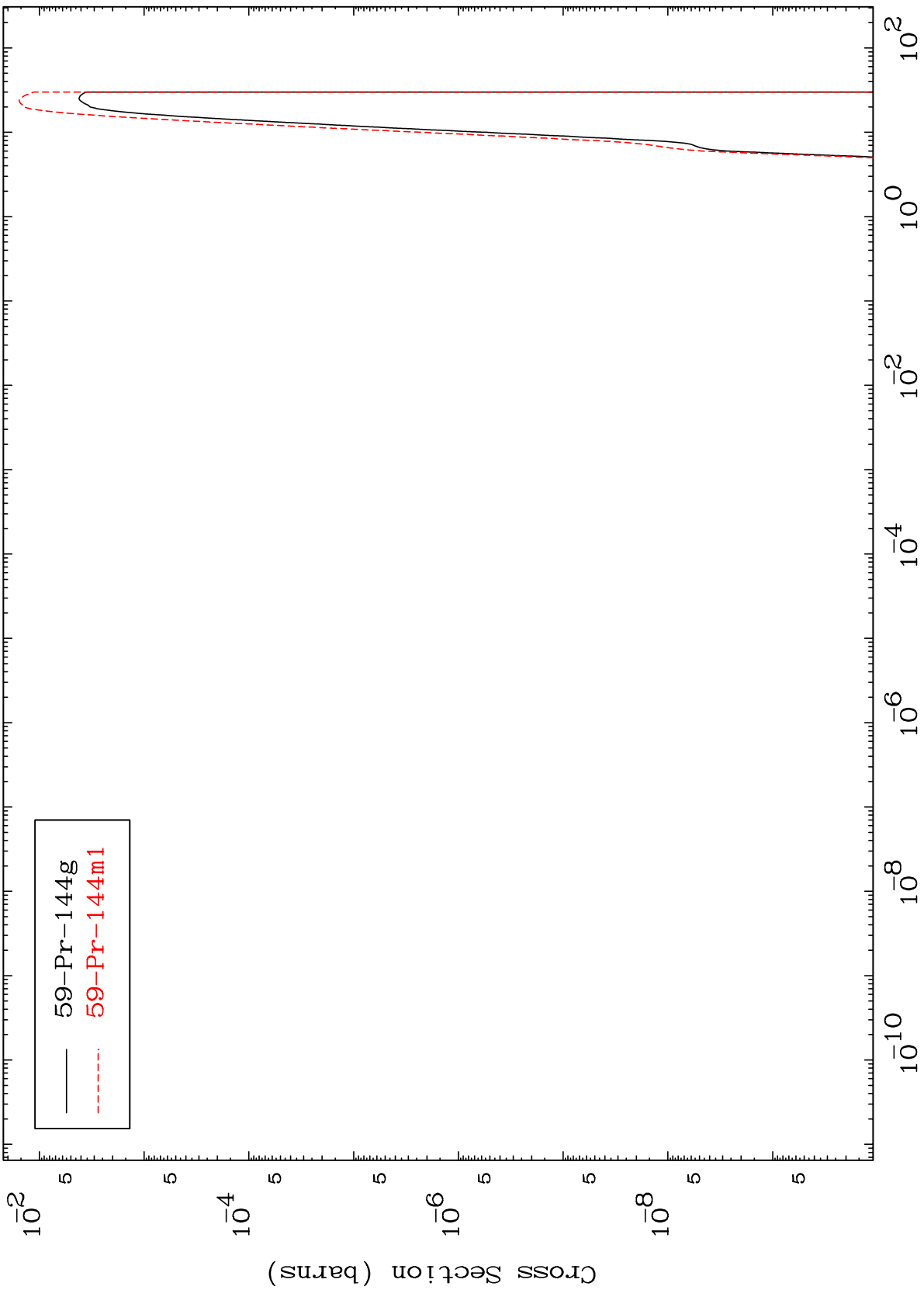


MAT 6152

$(n, n') \alpha$

61-Pm-148

Radionuclide Production Cross Section



130

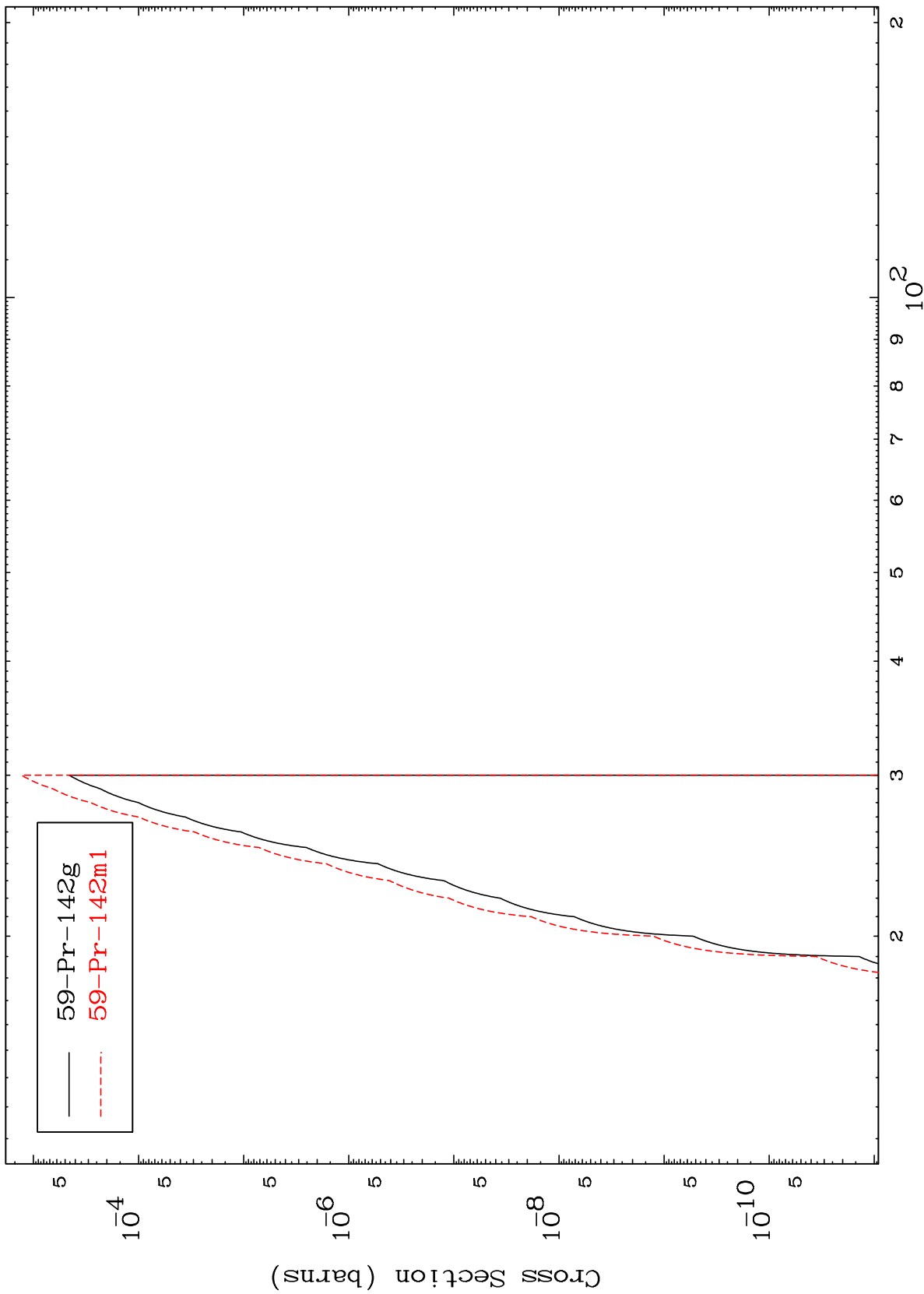
Incident Energy (MeV)

61-Pm-148

MAT 6152

61-Pm-148

(n,3n) α
Radionuclide Production Cross Section



61-Pm-148

Incident Energy (MeV)

131