

Program EVALPLOT
(Version 2015-2)

by

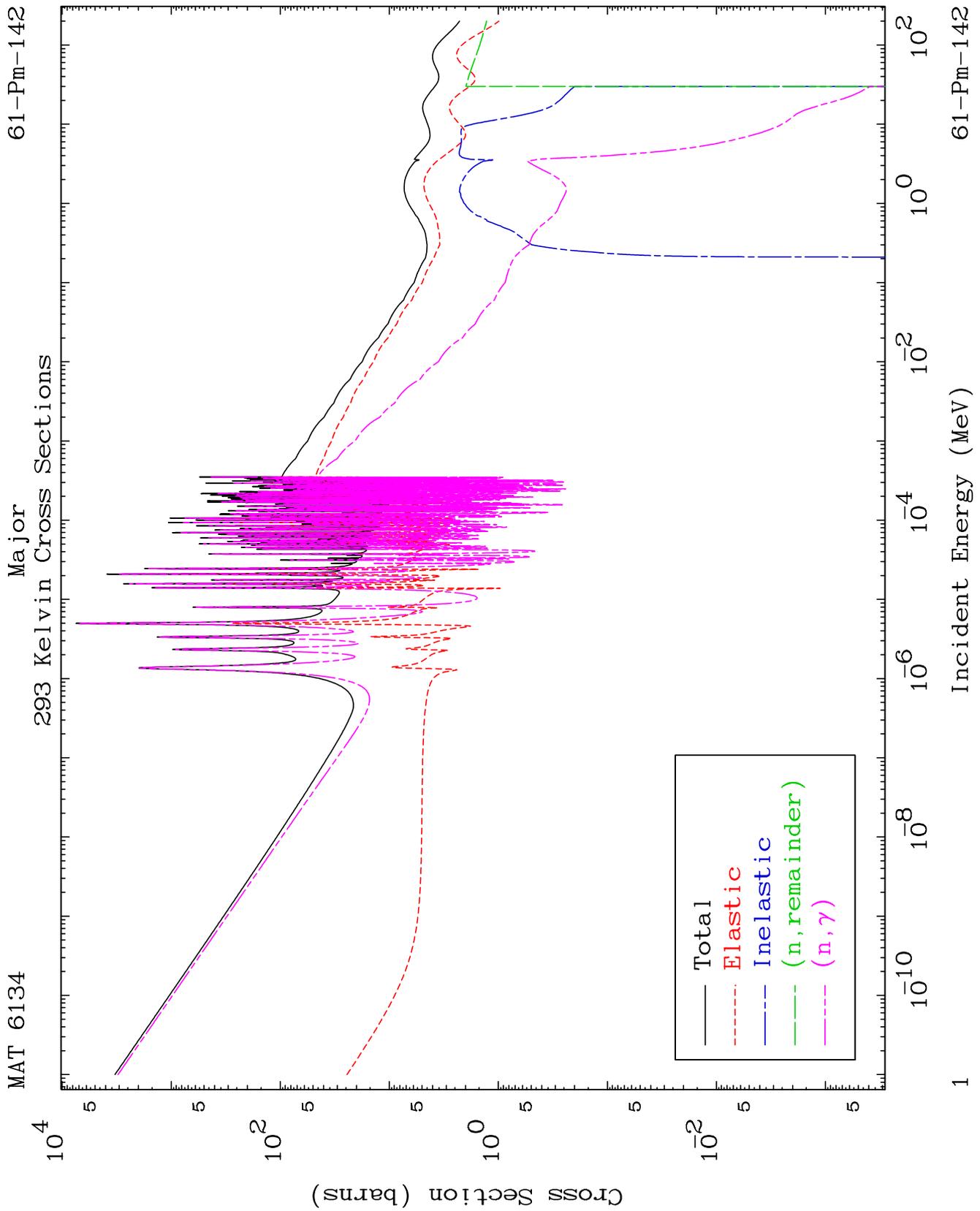
Dermott E. Cullen
(Present Contact Information)

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

Tele: 925-443-1911

E.Mail:redcullen1@comcast.net
Web:home.comcast.net/~redcullen1

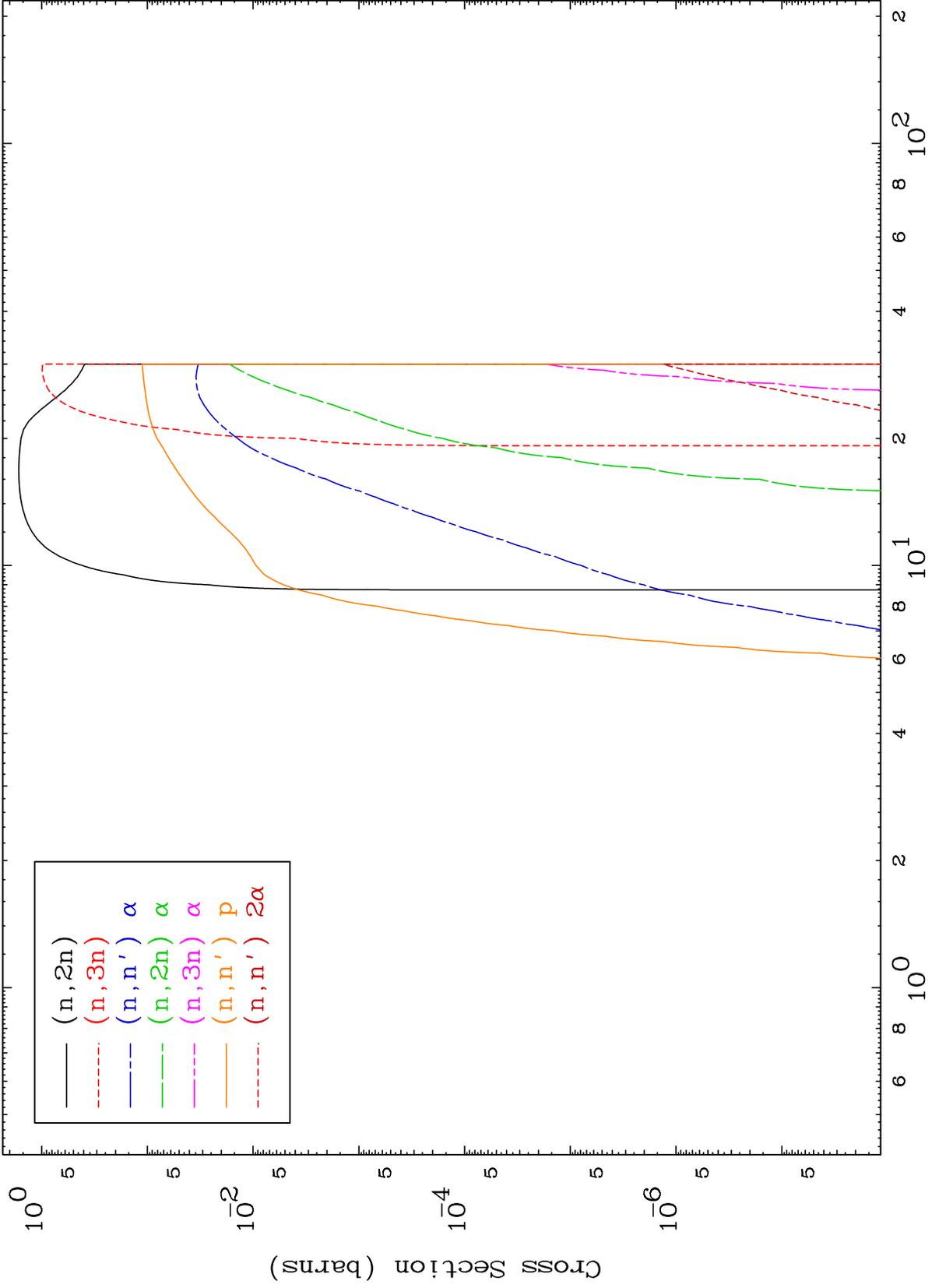
Press Mouse Button to Start

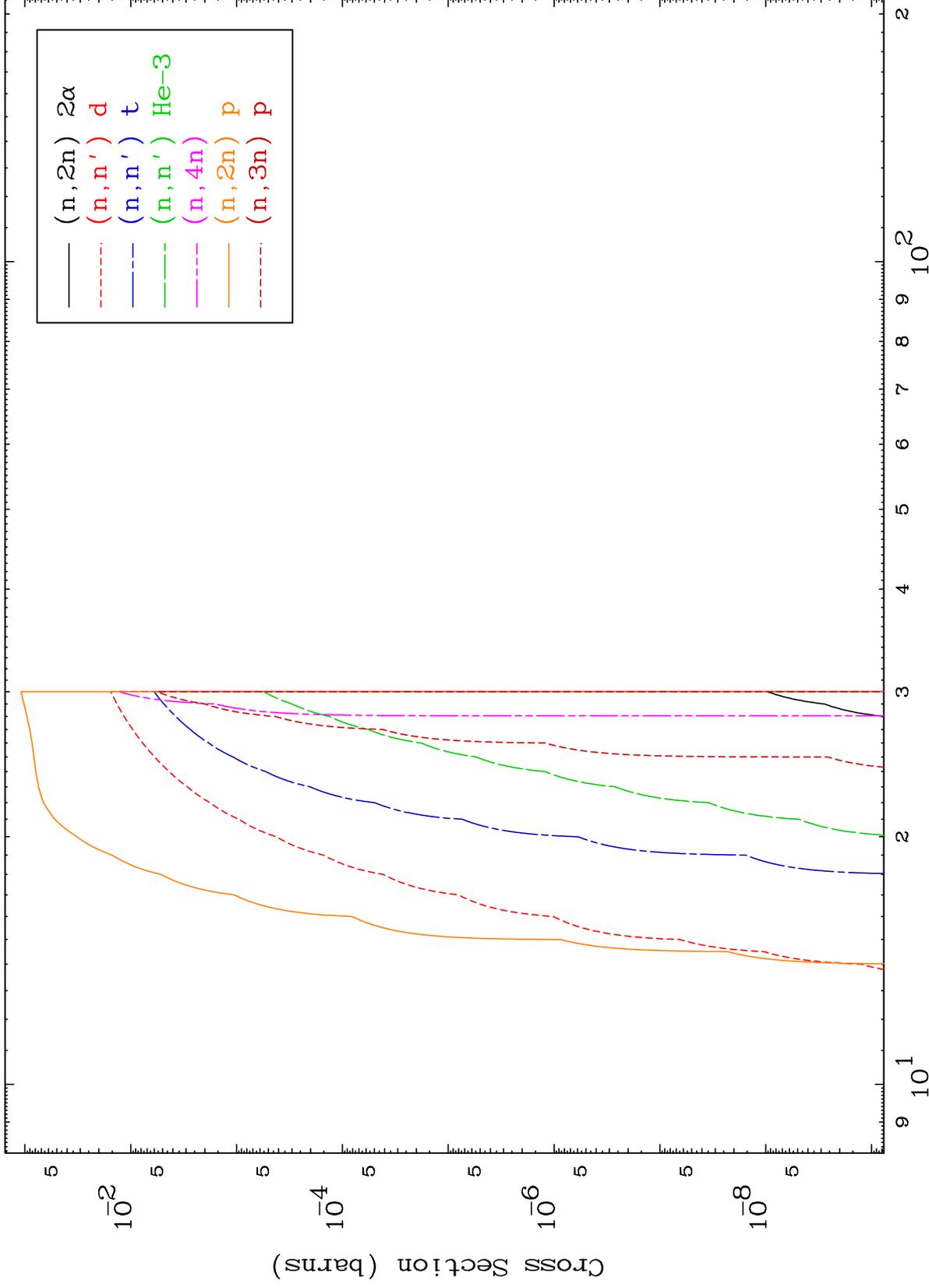


MAT 6134

Neutron Production
293 Kelvin Cross Sections

61-Pm-142



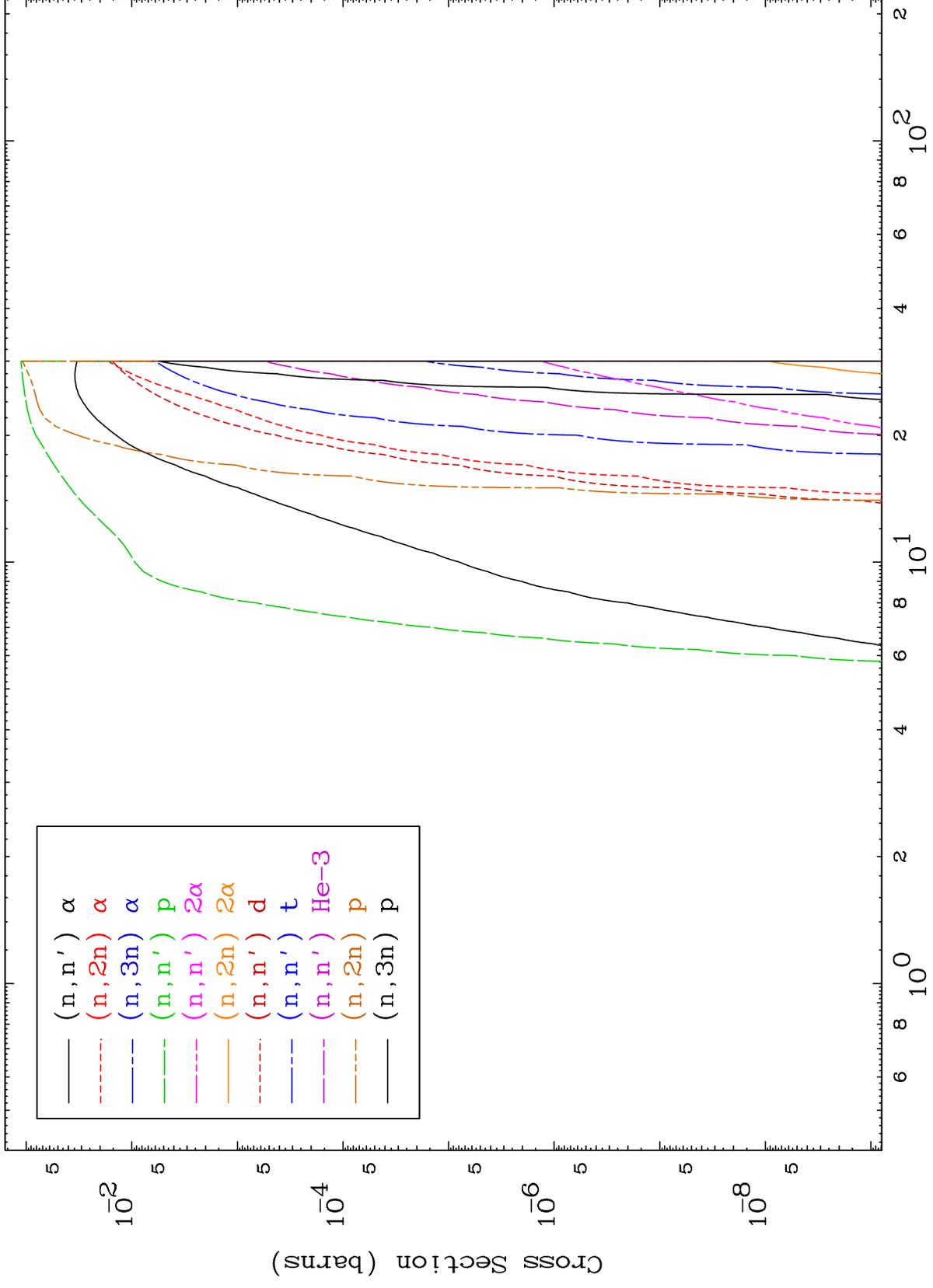


MAT 6134

Charged Particle

61-Pm-142

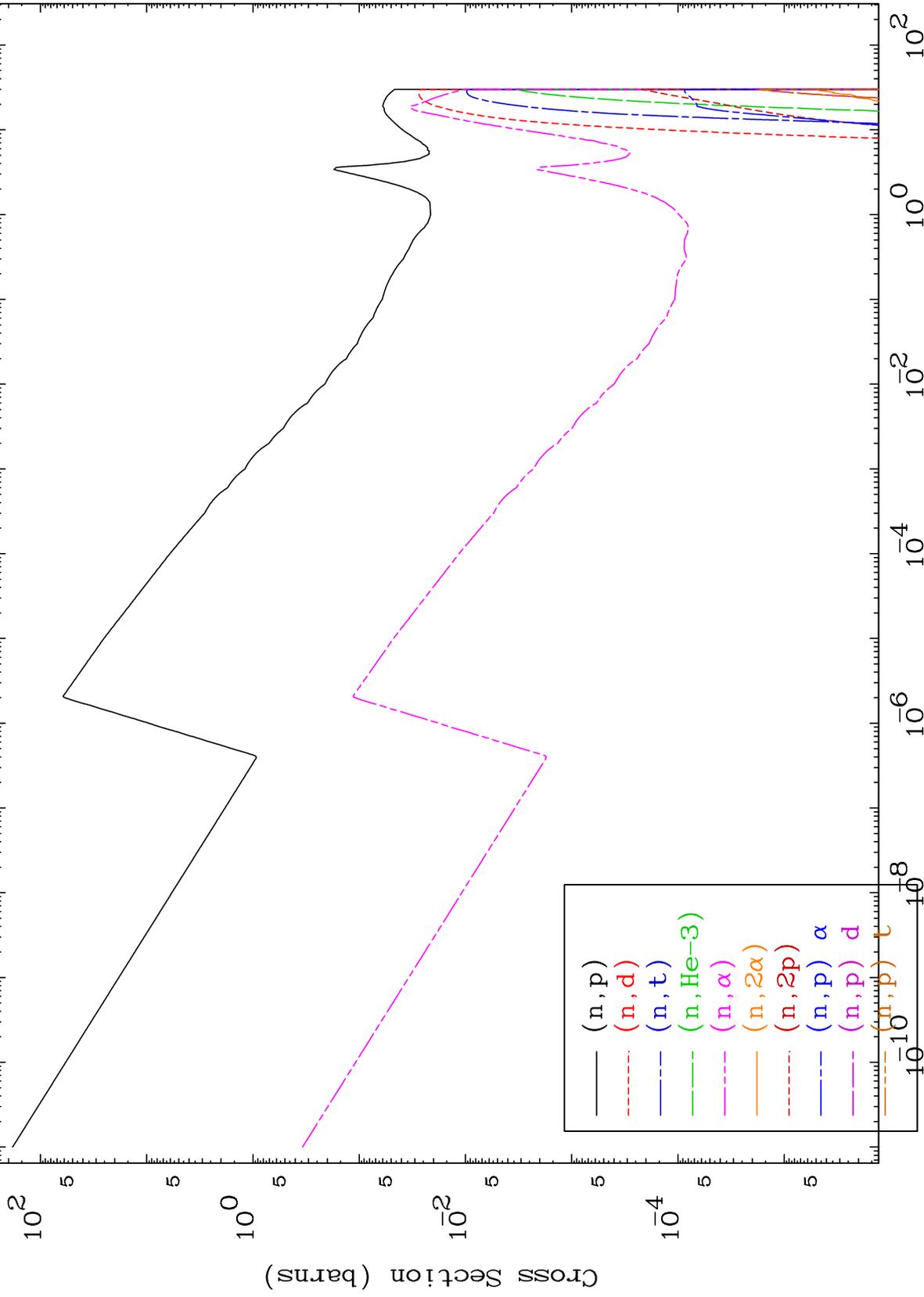
293 Kelvin Cross Sections



MAT 6134

Charged Particle
293 Kelvin Cross Sections

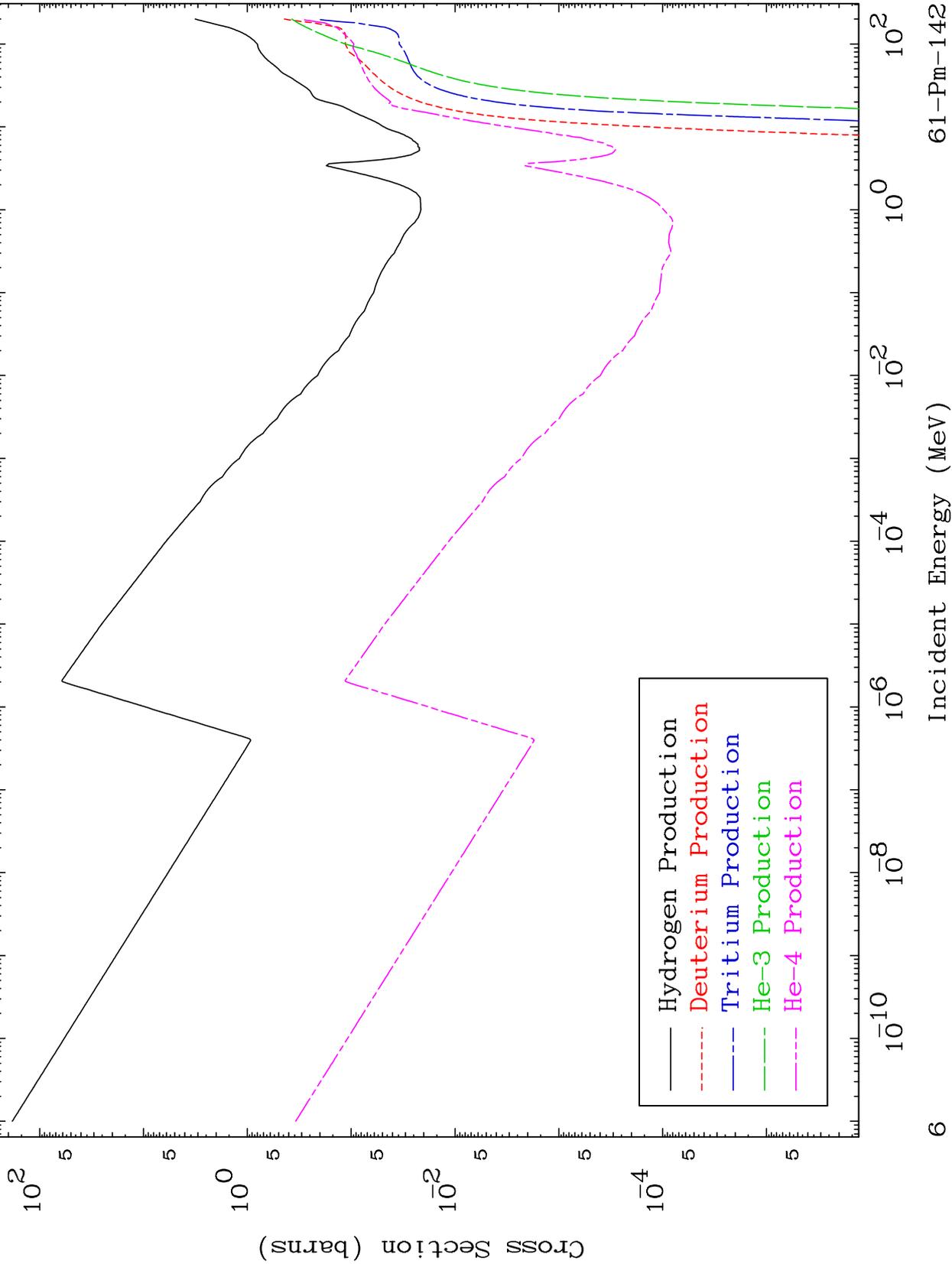
61-Pm-142



MAT 6134

Particle Production
293 Kelvin Cross Sections

61-Pm-142

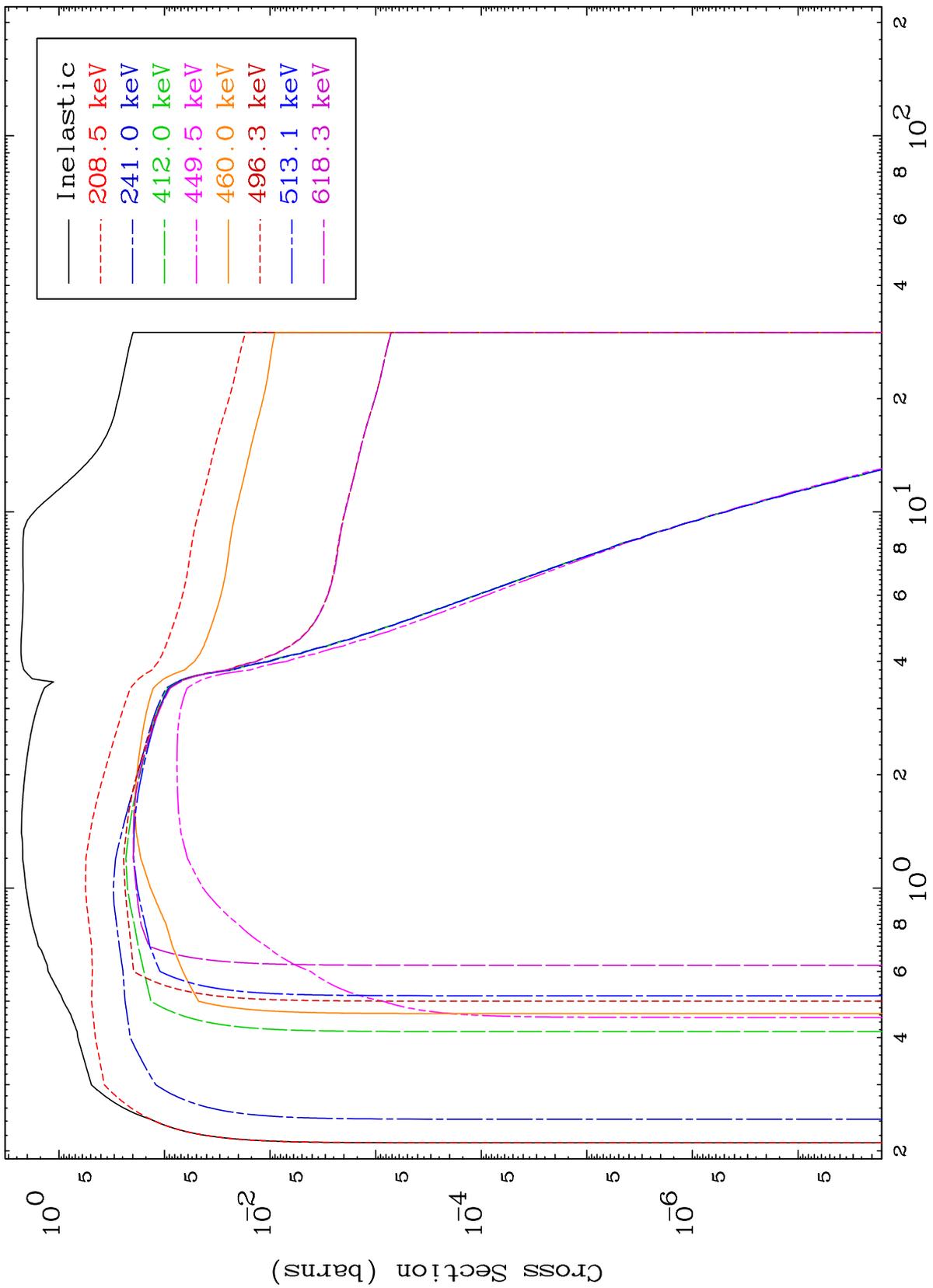


MAT 6134

(n,n') Level

61-Pm-142

293 Kelvin Cross Sections



Incident Energy (MeV)

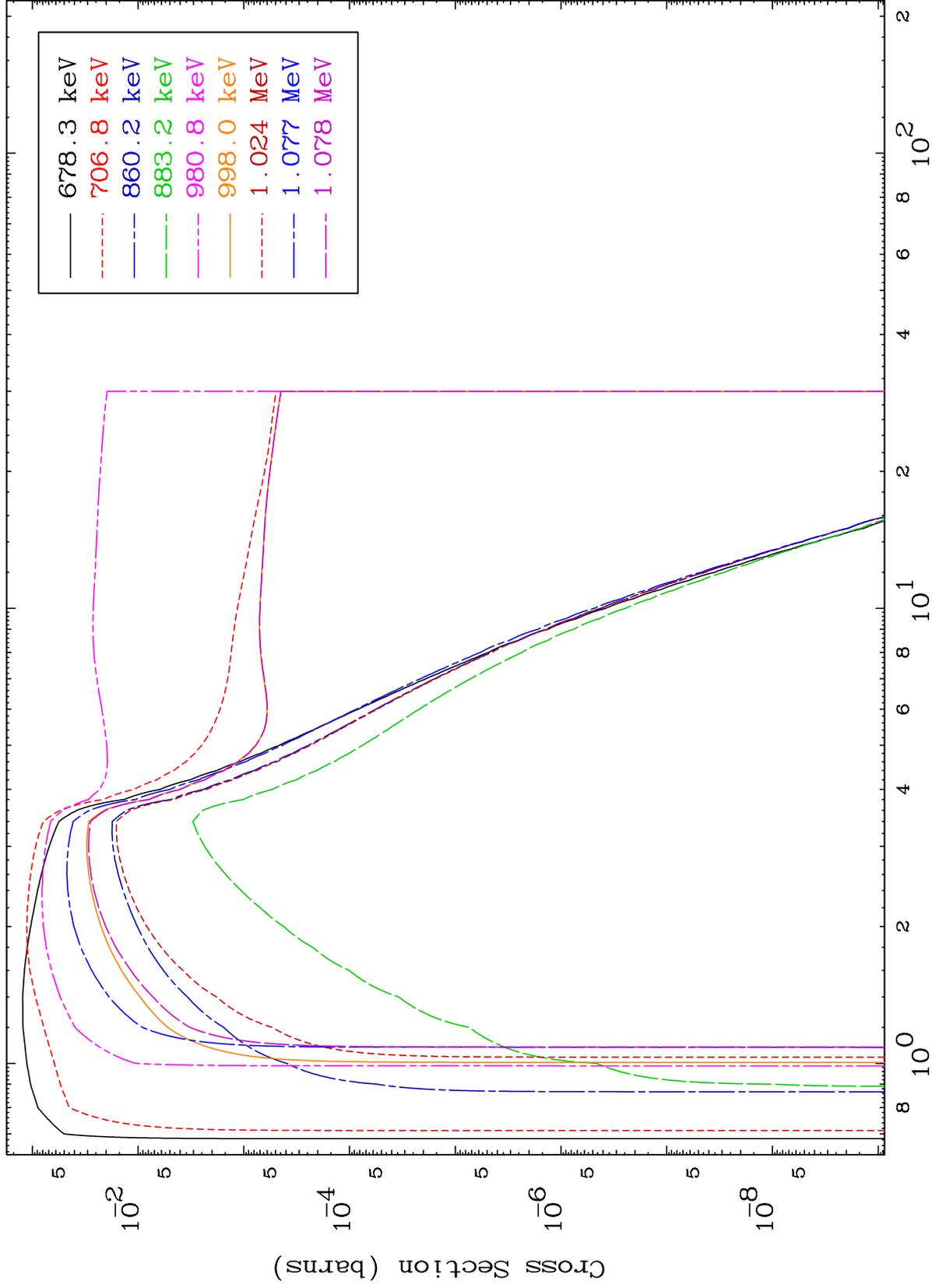
61-Pm-142

MAT 6134

(n,n') Level

61-Pm-142

293 Kelvin Cross Sections



8

Incident Energy (MeV)

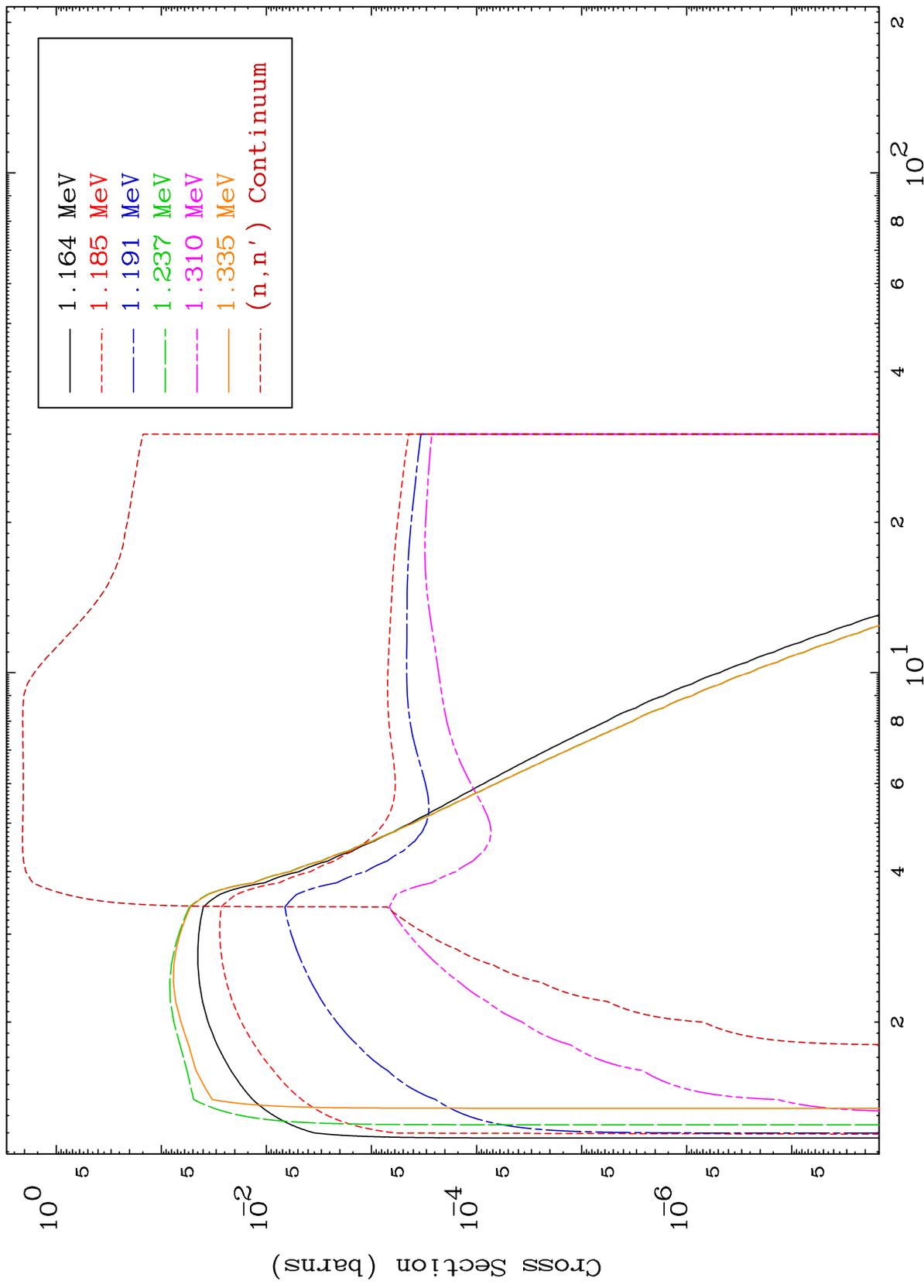
61-Pm-142

MAT 6134

(n,n') Level

61-Pm-142

293 Kelvin Cross Sections



9

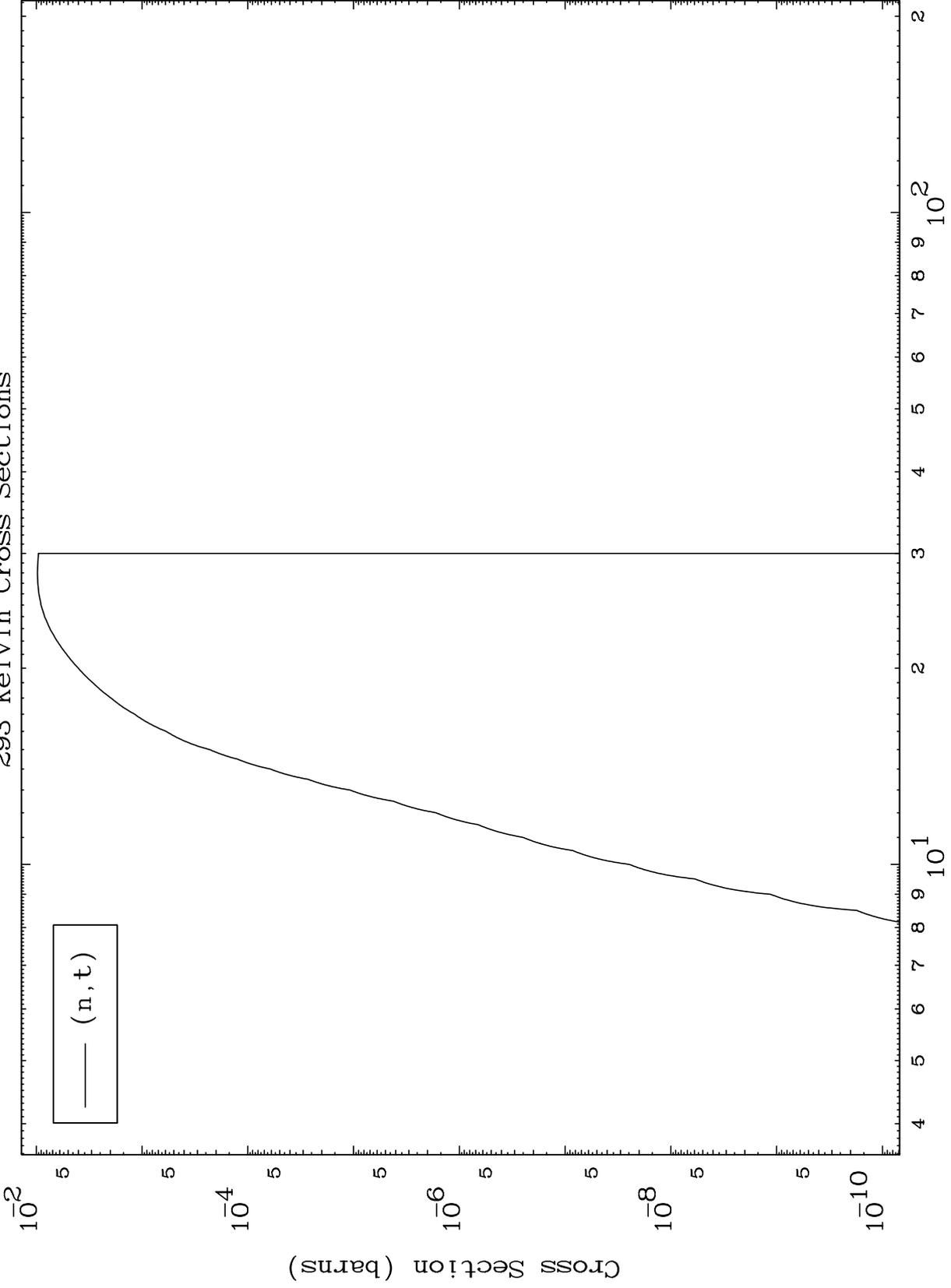
Incident Energy (MeV)

61-Pm-142

MAT 6134

(n,t) Levels
293 Kelvin Cross Sections

61-Pm-142



12

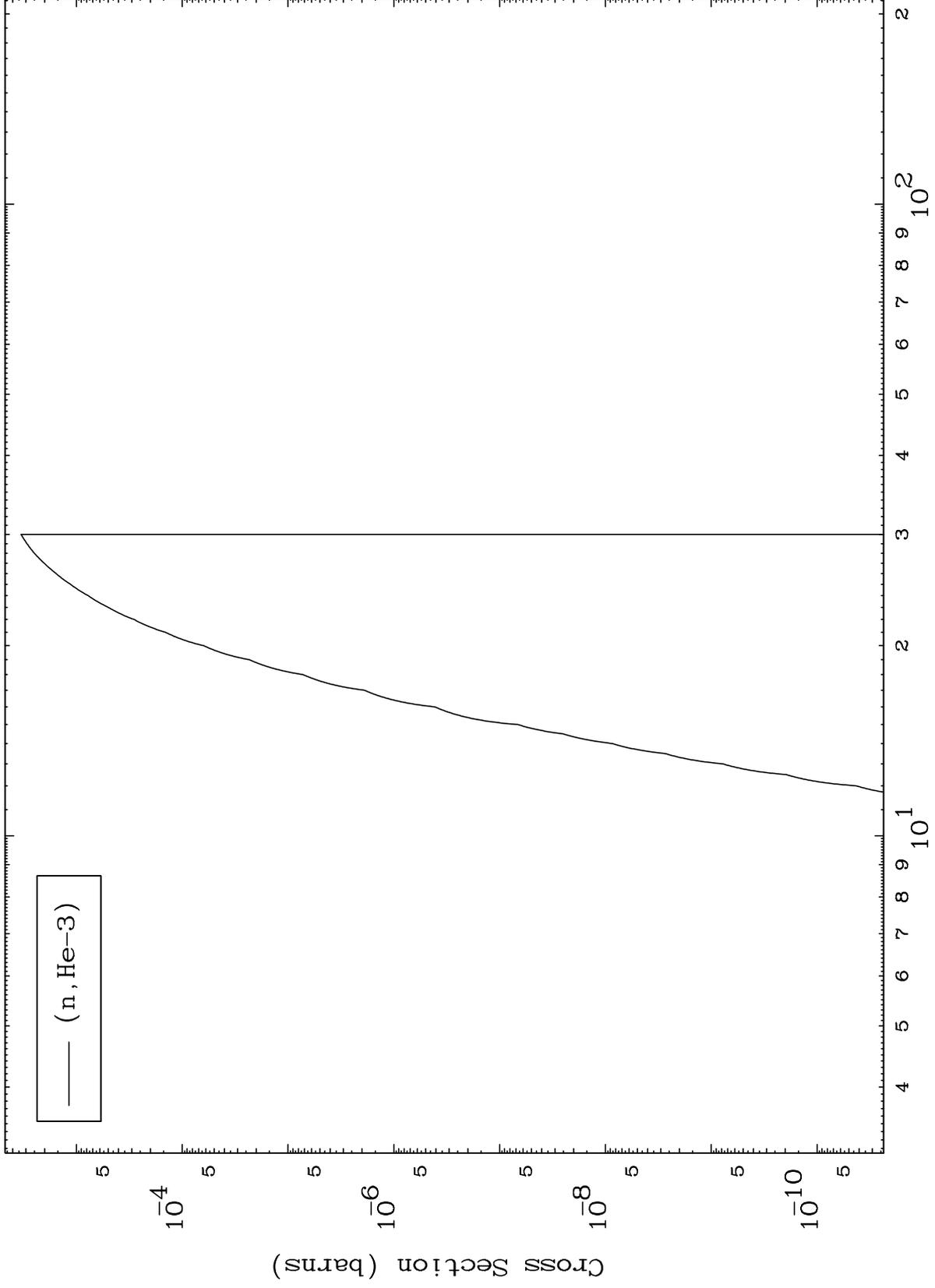
Incident Energy (MeV)

61-Pm-142

MAT 6134

(n,He3) Levels
293 Kelvin Cross Sections

61-Pm-142



13

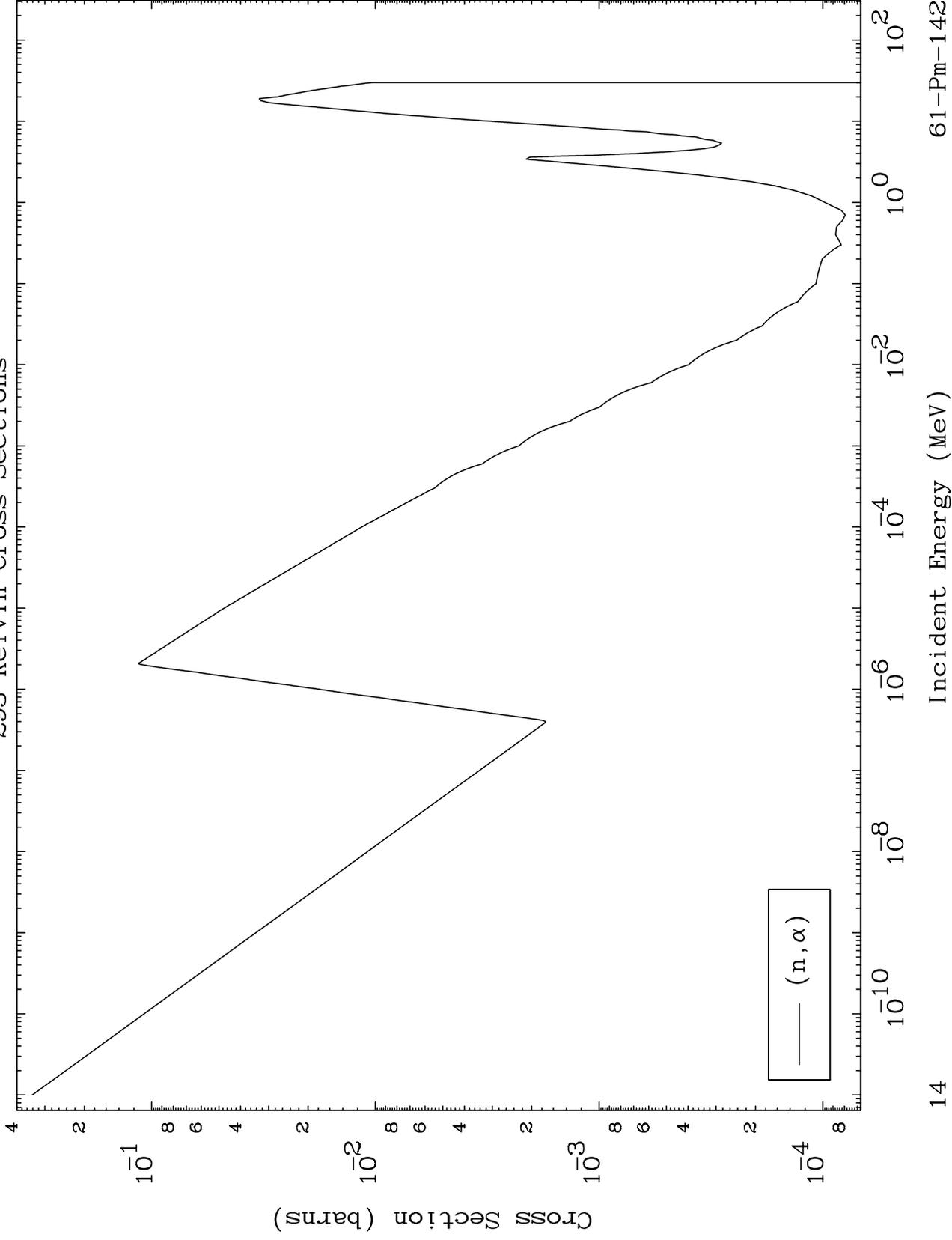
Incident Energy (MeV)

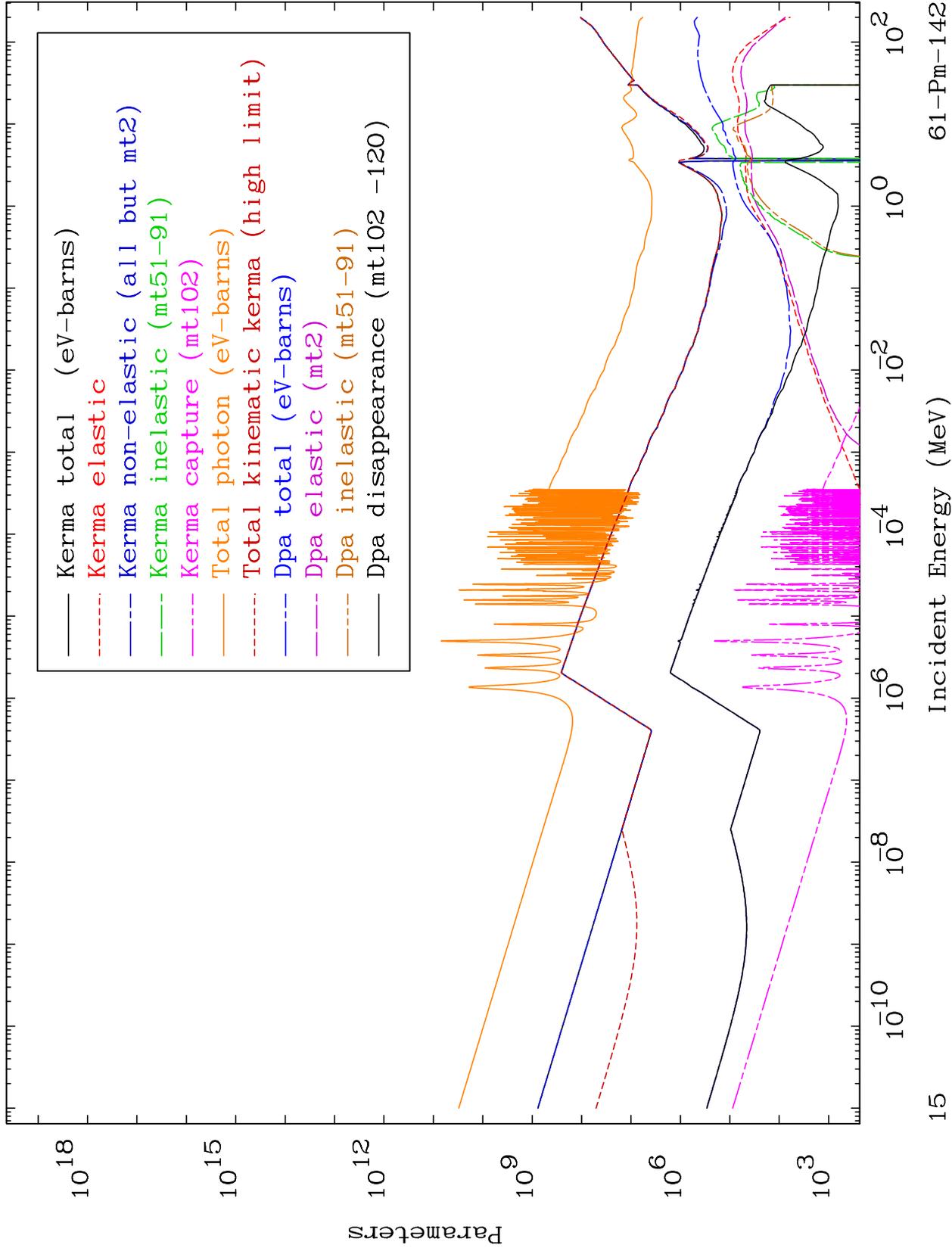
61-Pm-142

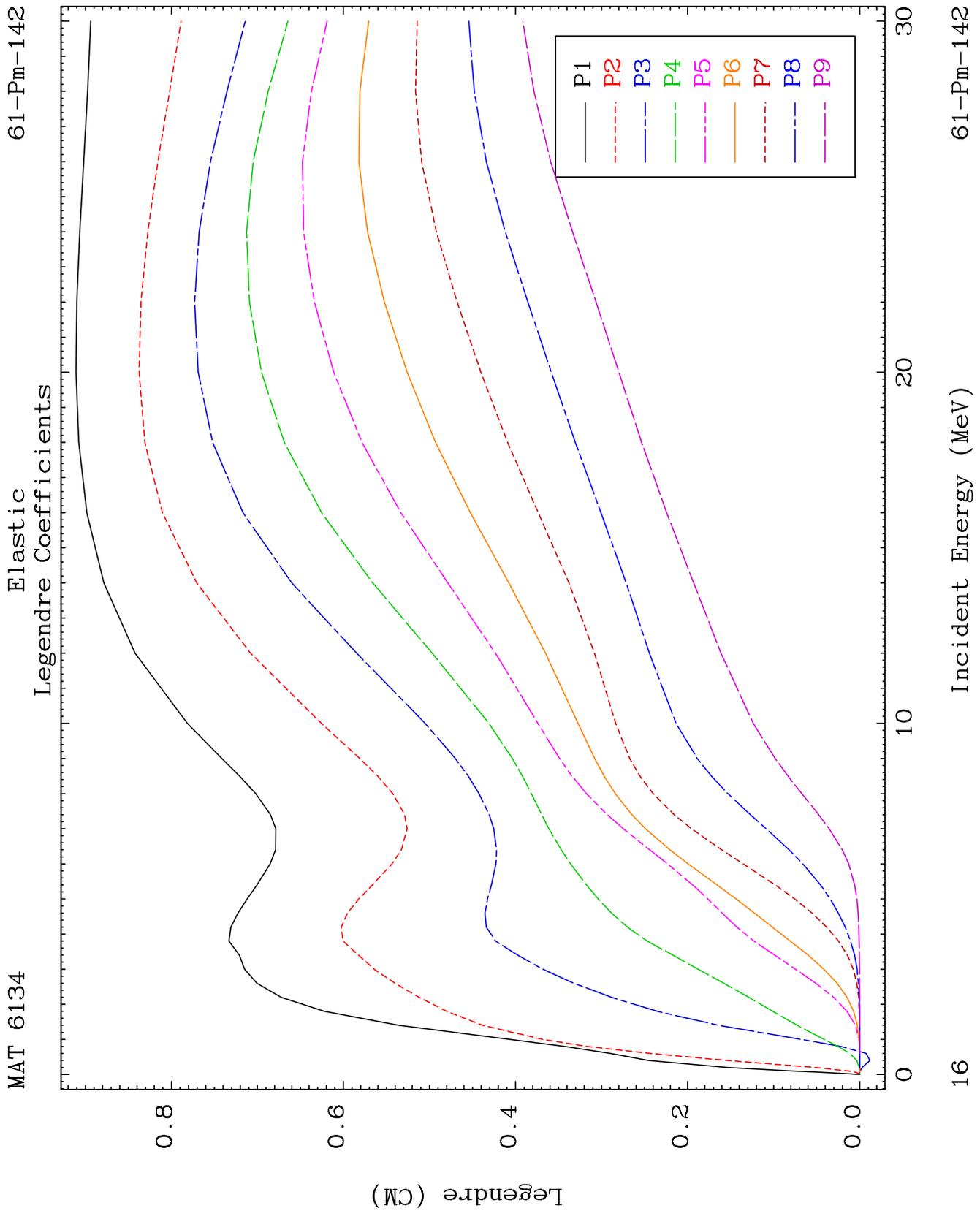
MAT 6134

(n, α) Levels
293 Kelvin Cross Sections

61-Pm-142



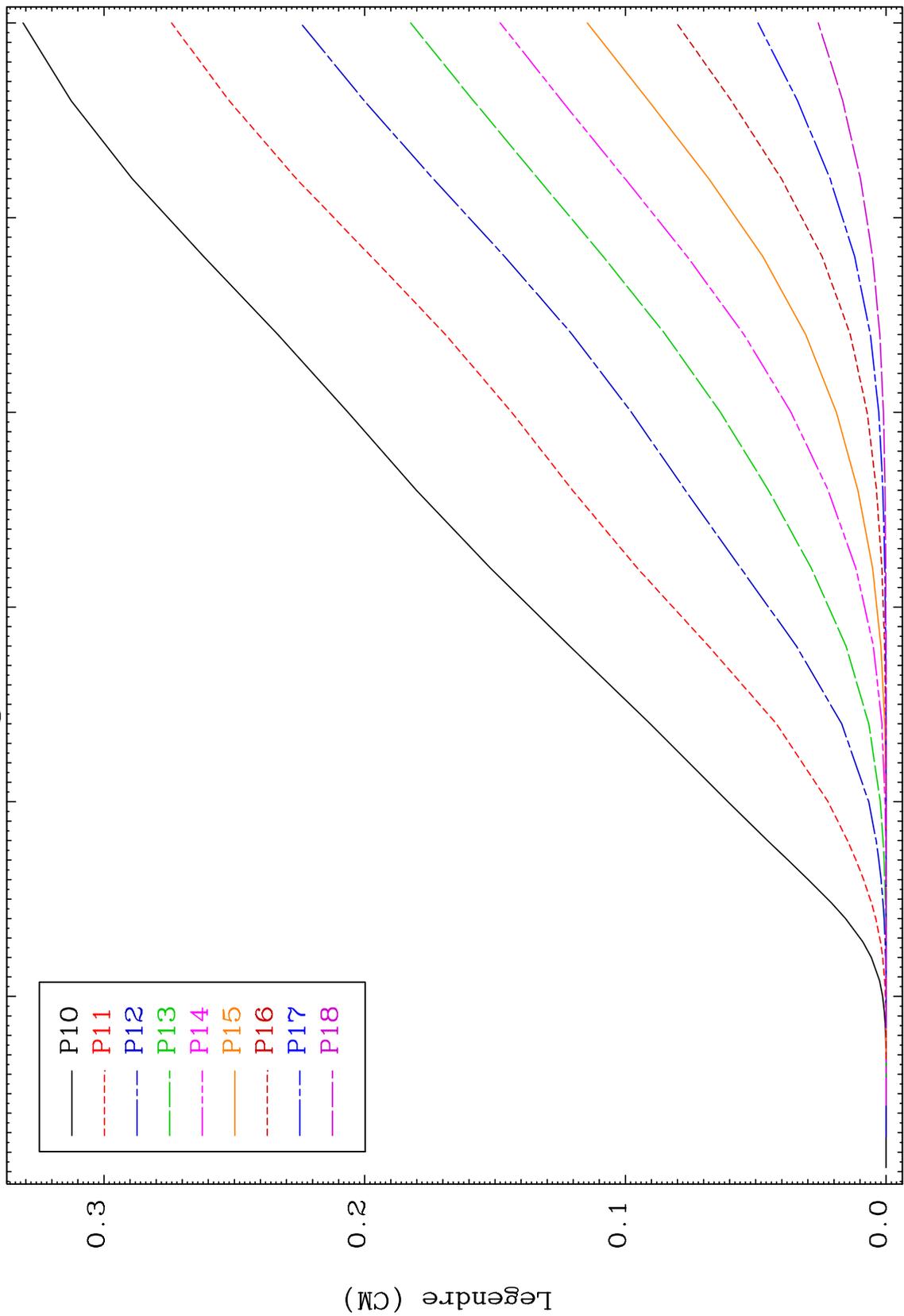




MAT 6134

Elastic Legendre Coefficients

61-Pm-142



17

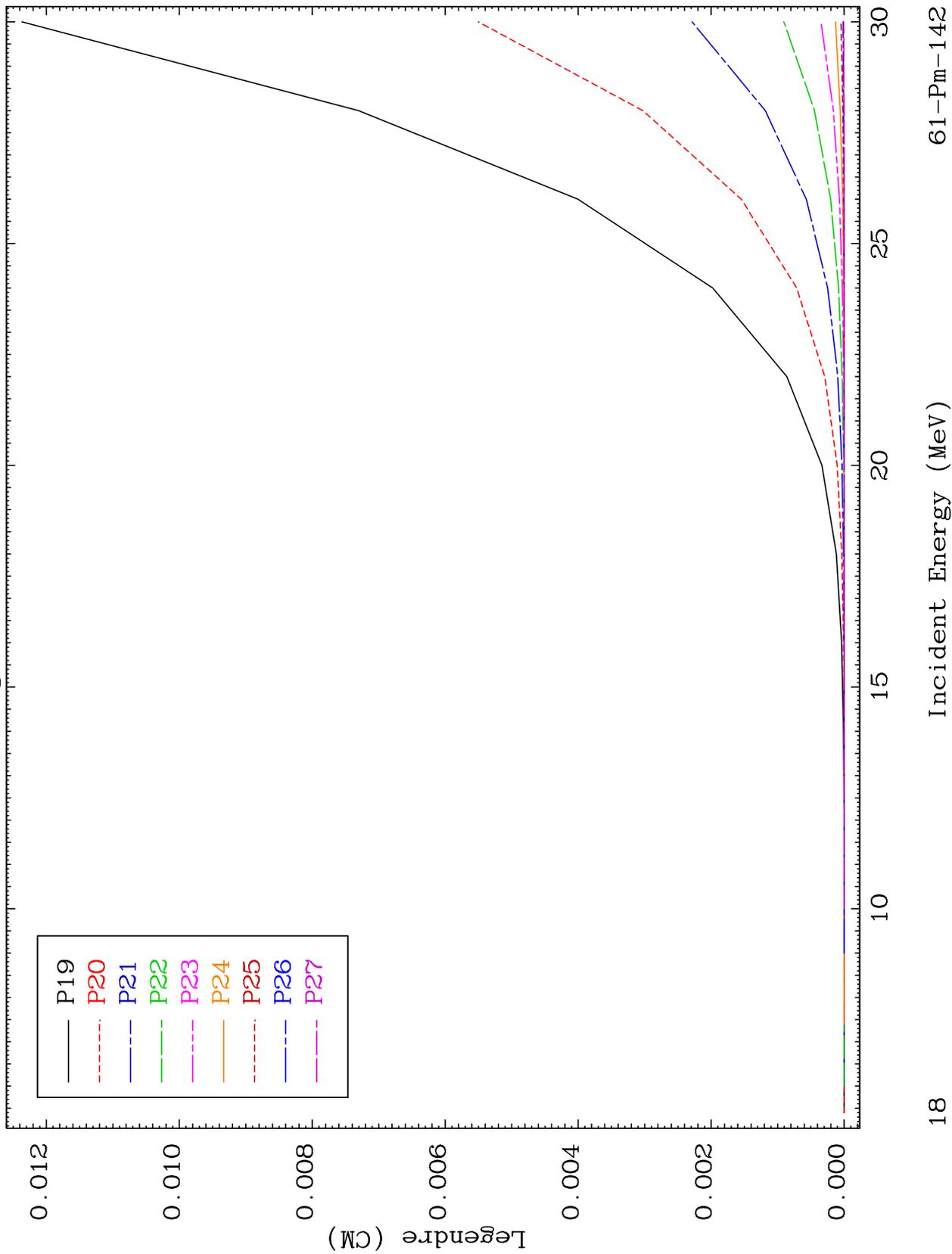
Incident Energy (MeV)

61-Pm-142

MAT 6134

Elastic Legendre Coefficients

61-Pm-142



18

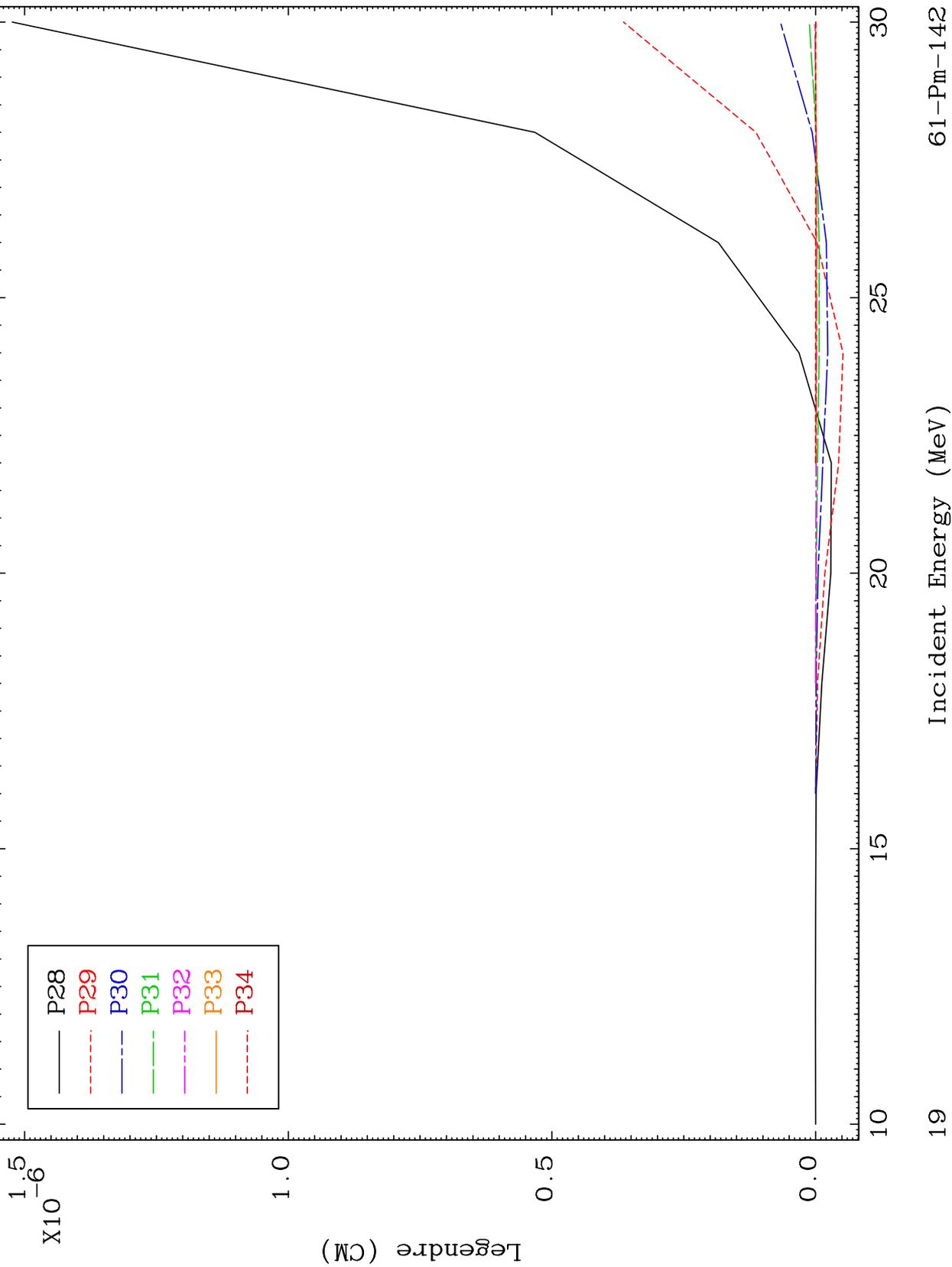
Incident Energy (MeV)

61-Pm-142

MAT 6134

Elastic Legendre Coefficients

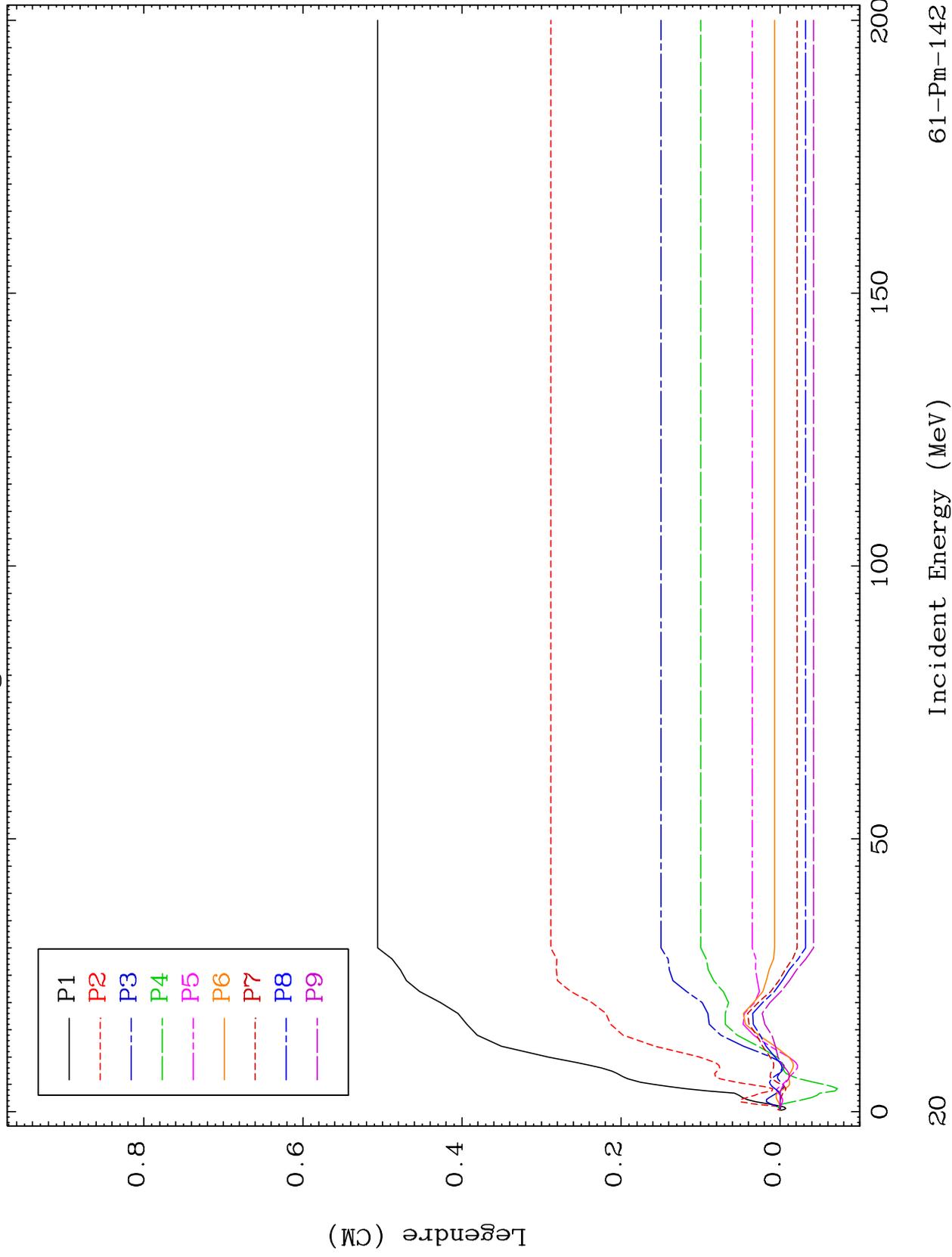
61-Pm-142



MAT 6134

208.5 keV (n,n') Level
Legendre Coefficients

61-Pm-142



61-Pm-142

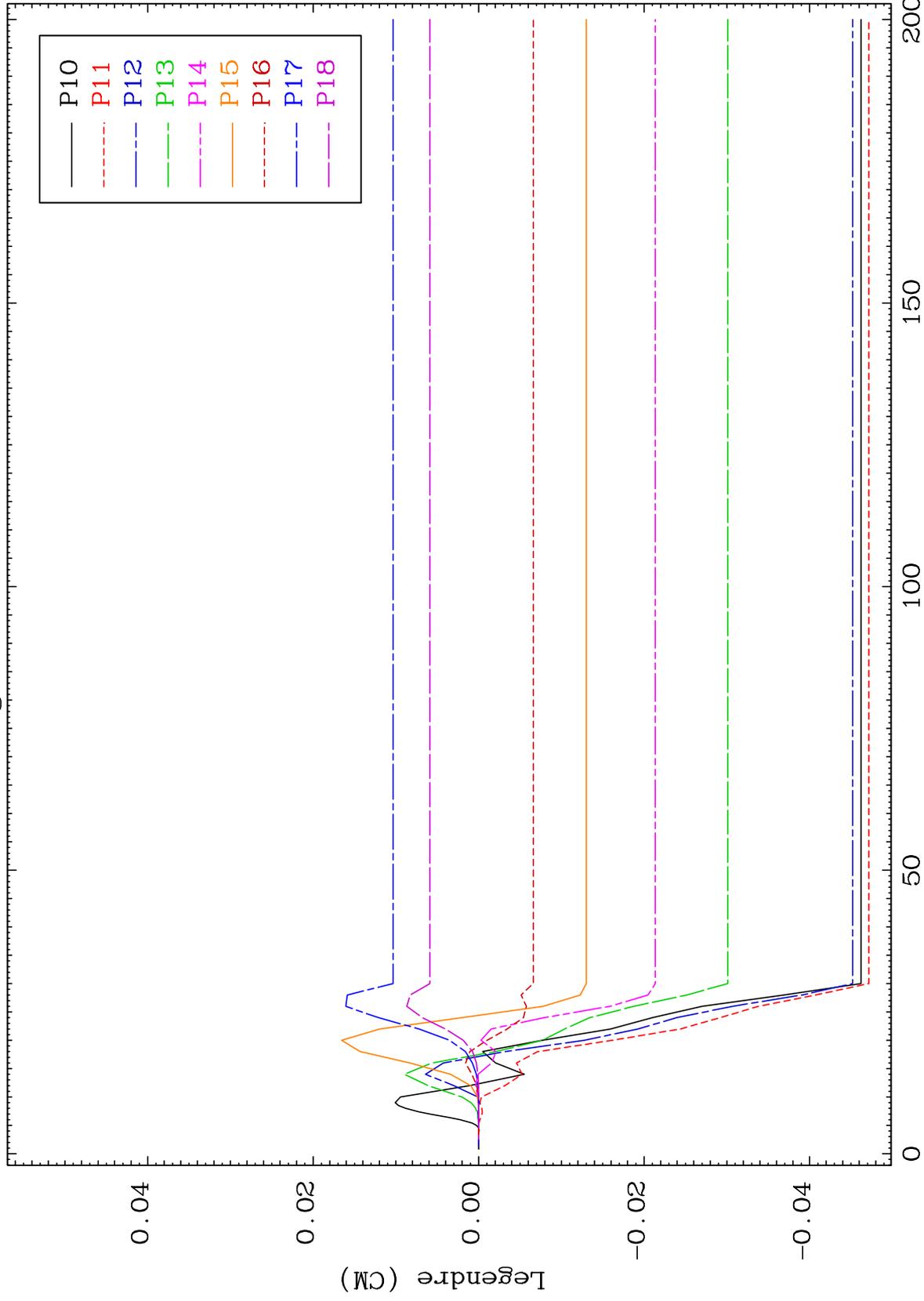
Incident Energy (MeV)

0

MAT 6134

208.5 keV (n,n') Level
Legendre Coefficients

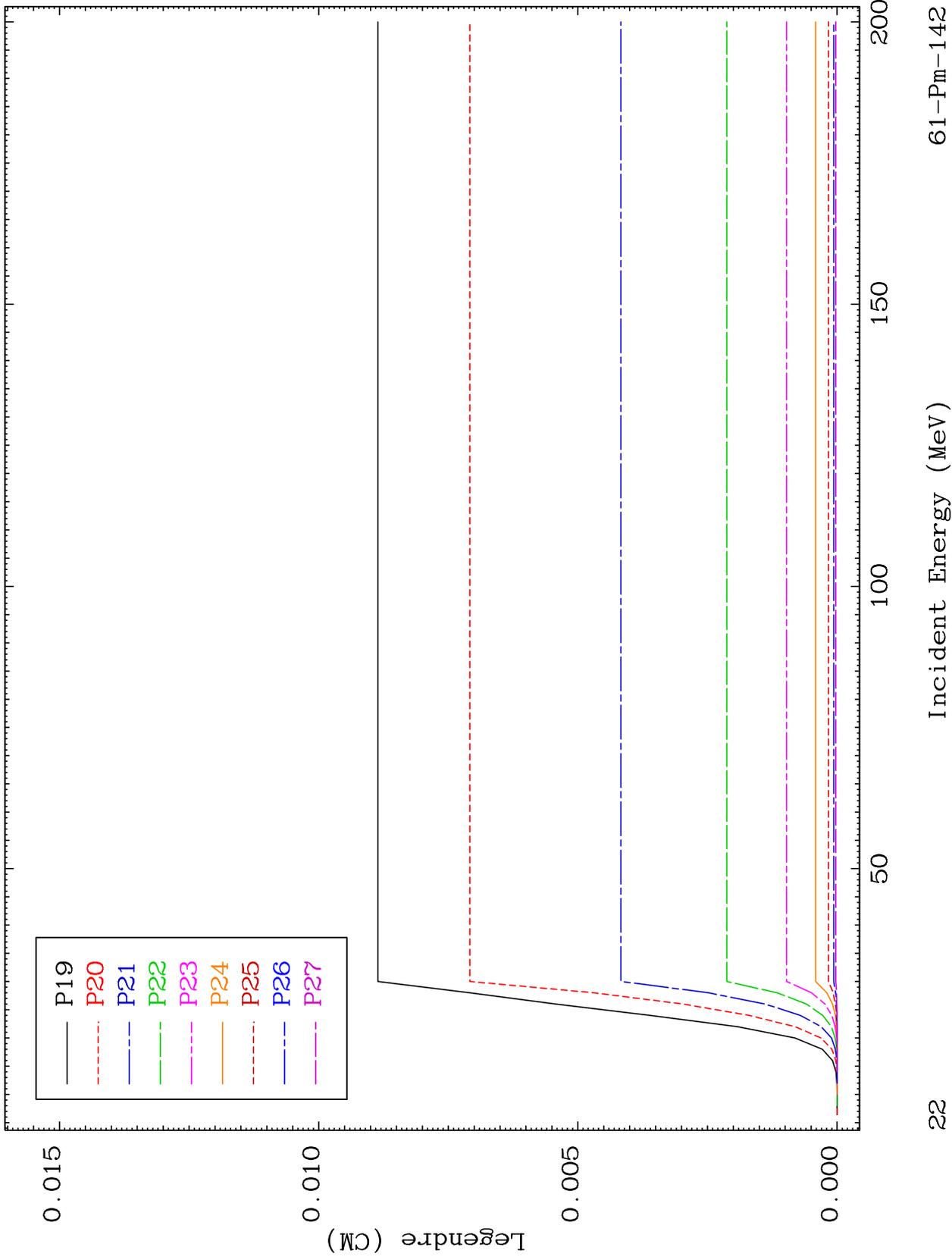
61-Pm-142



21

Incident Energy (MeV)

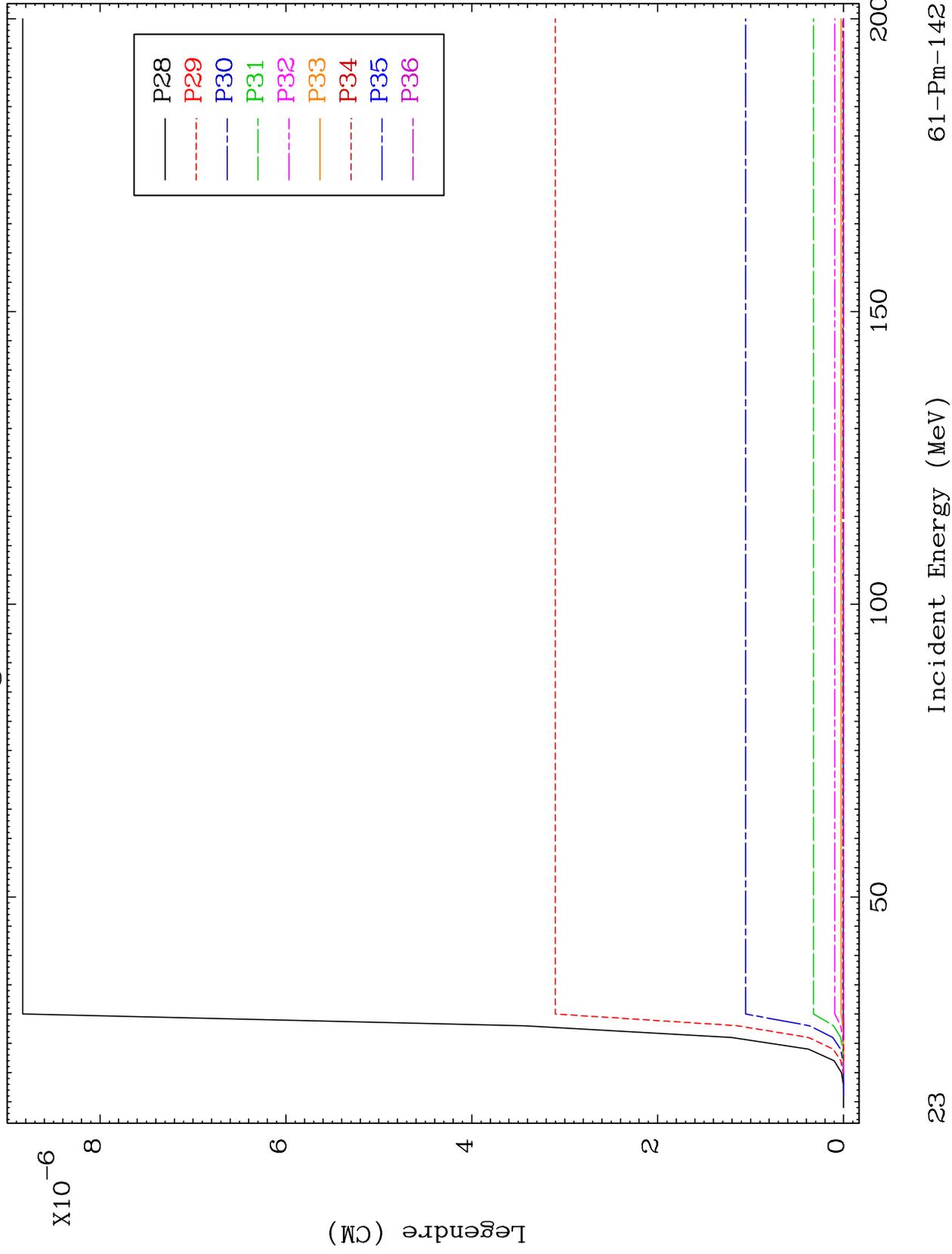
61-Pm-142



MAT 6134

208.5 keV (n,n') Level
Legendre Coefficients

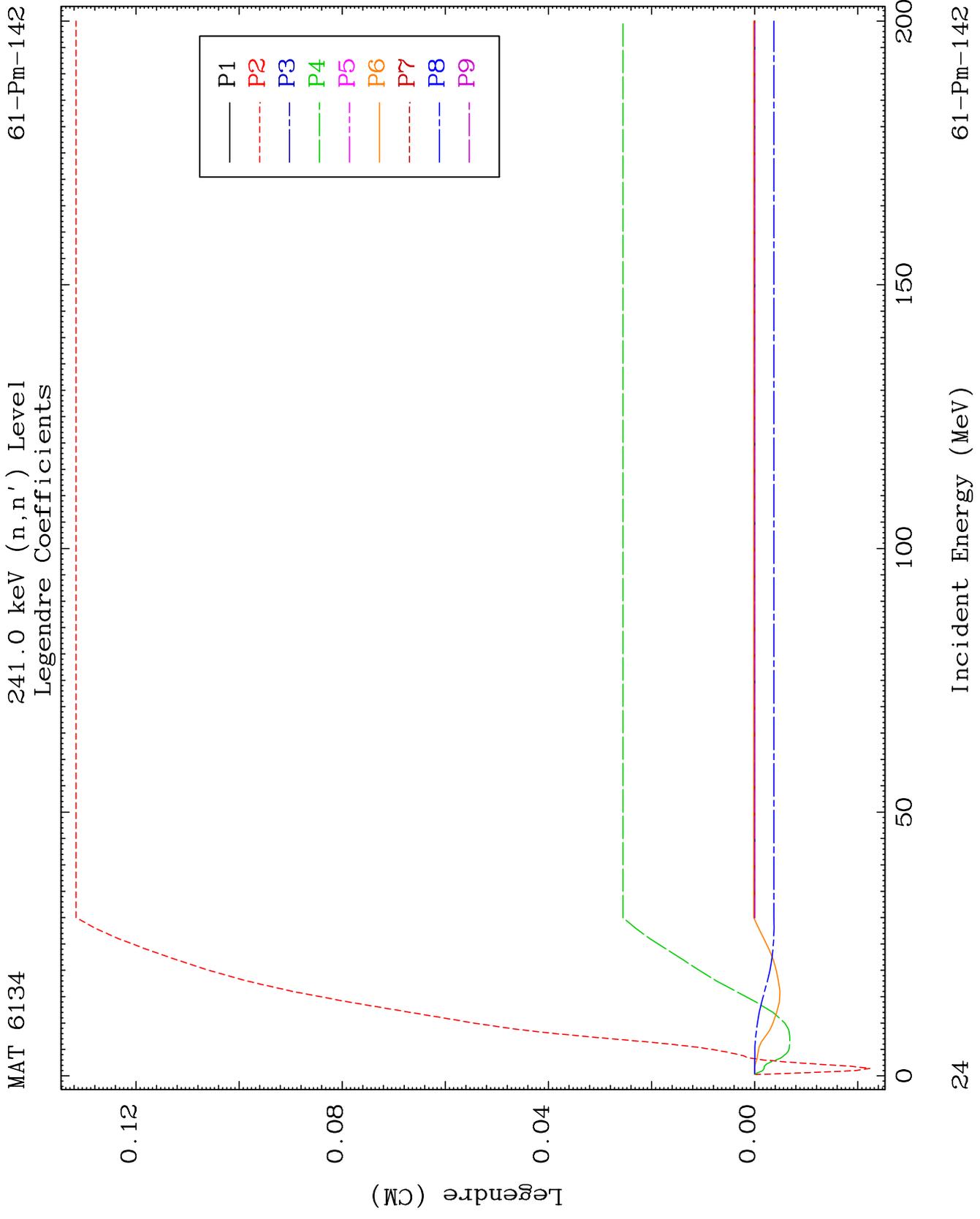
61-Pm-142

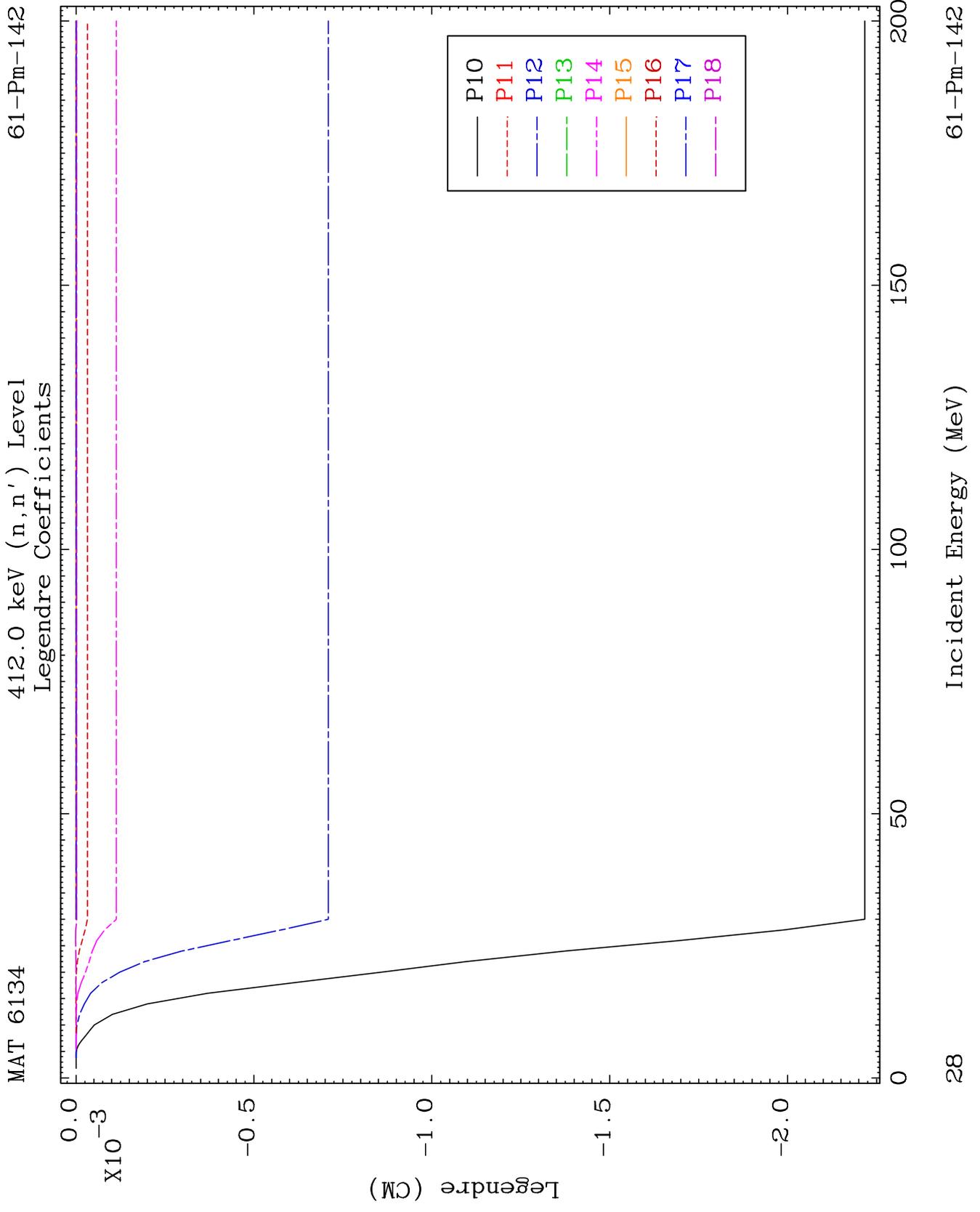


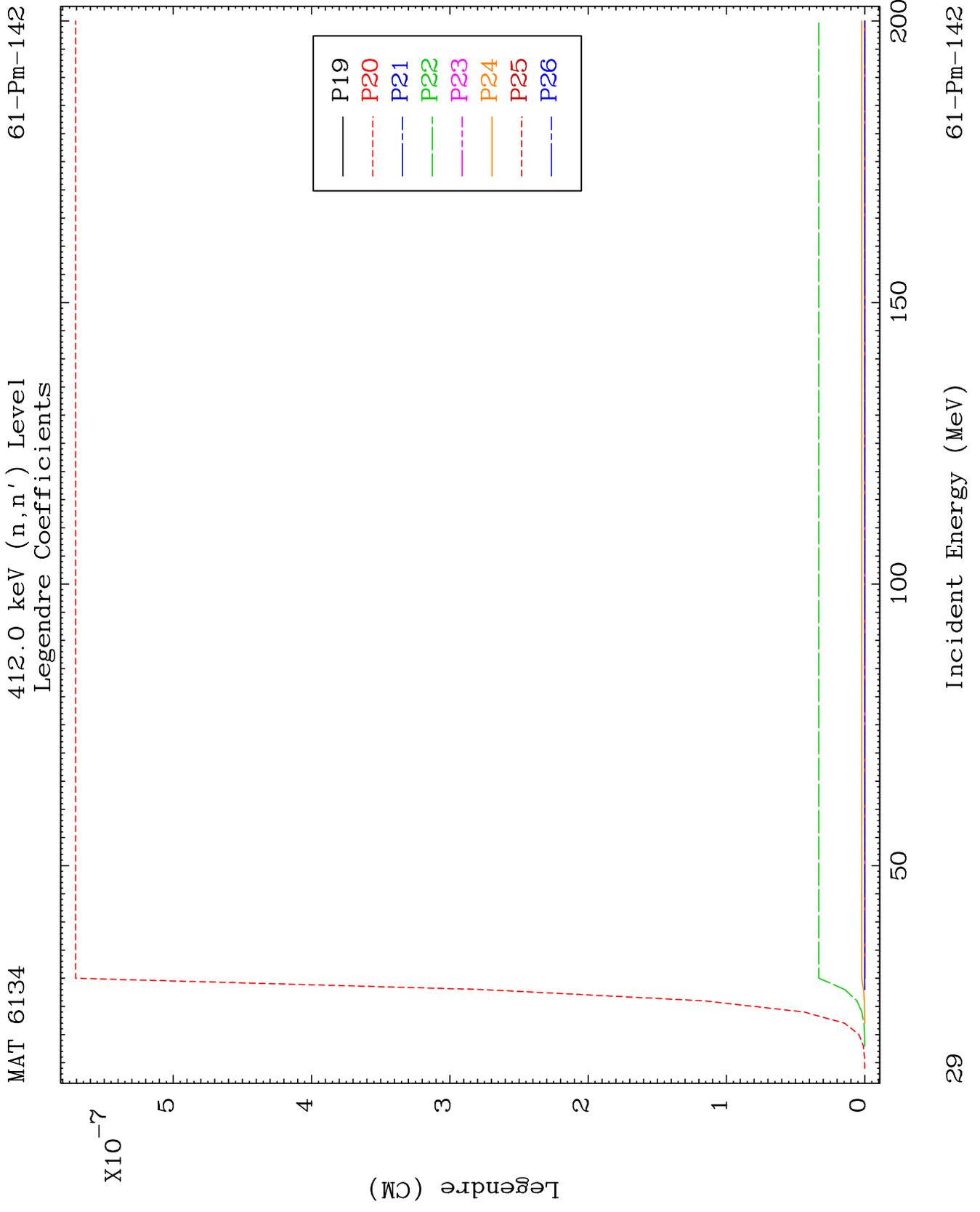
23

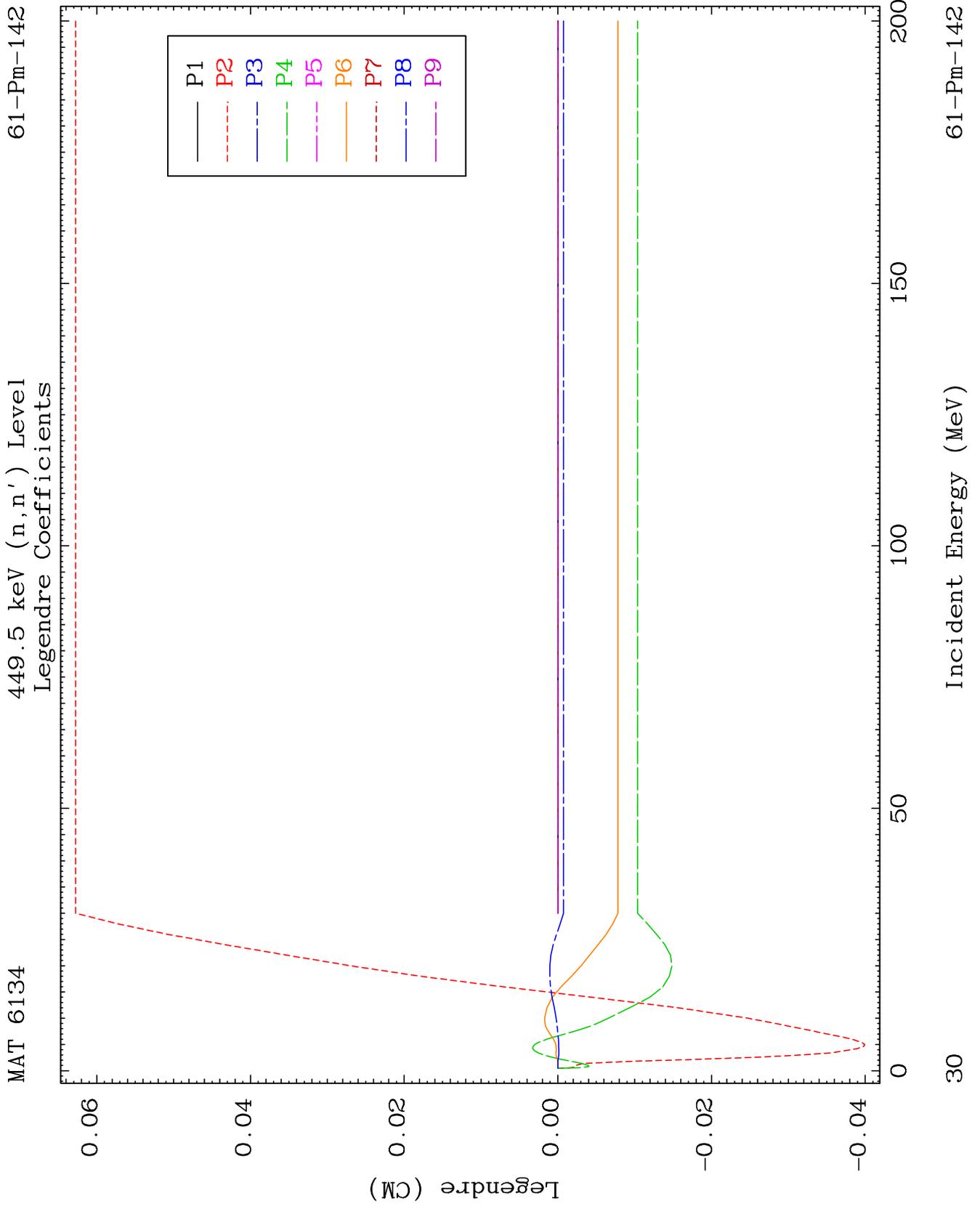
Incident Energy (MeV)

61-Pm-142





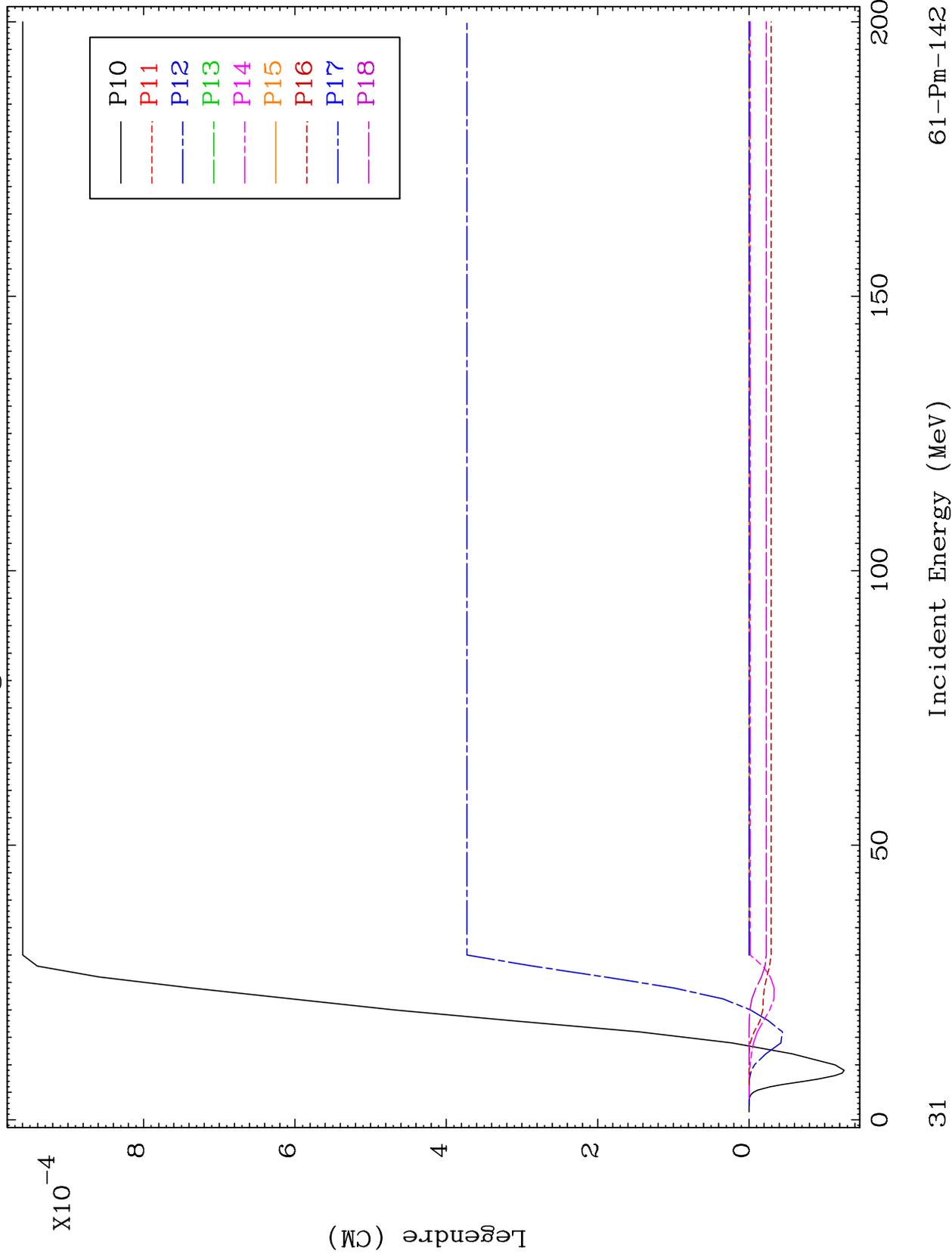


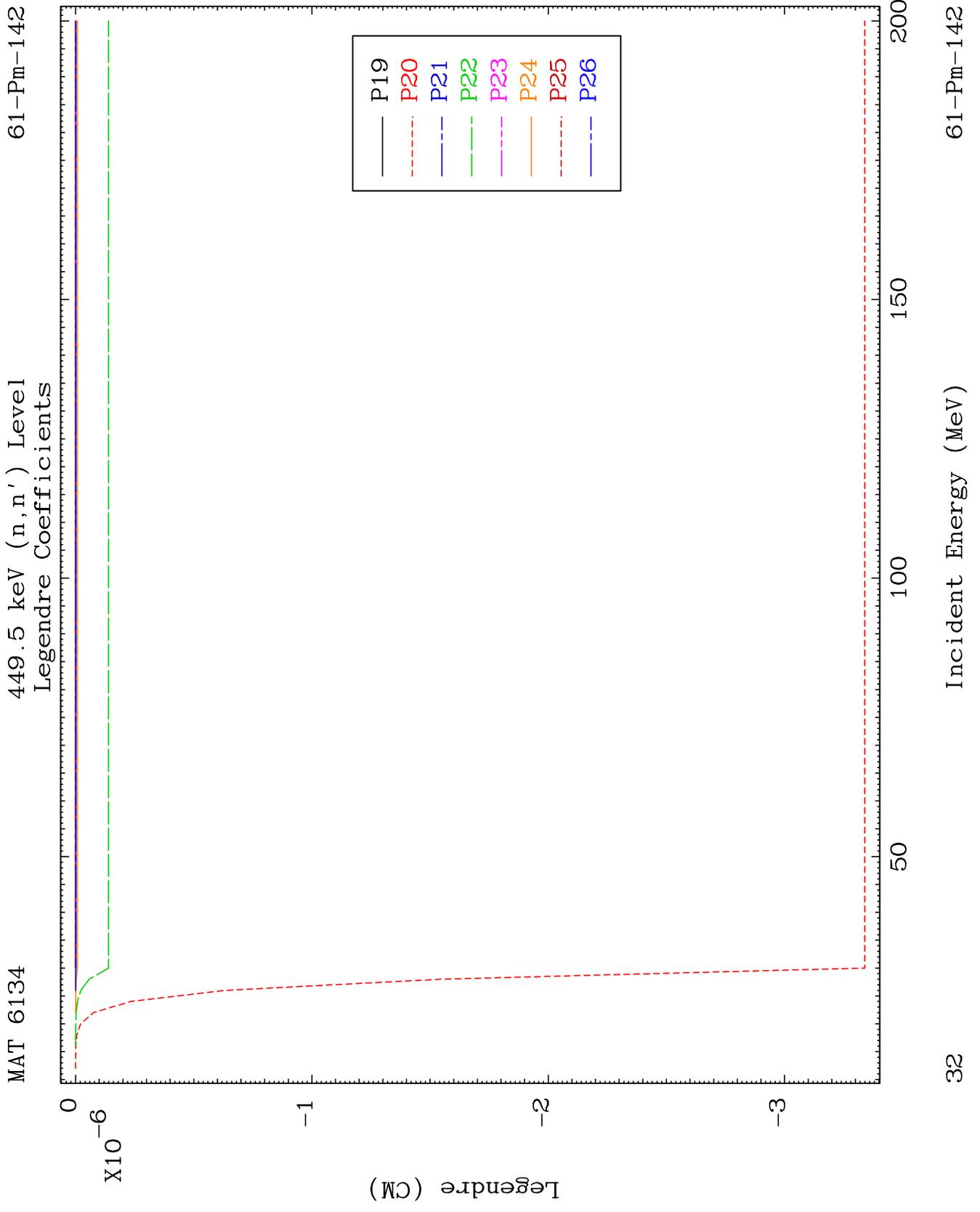


MAT 6134

449.5 keV (n,n') Level
Legendre Coefficients

61-Pm-142

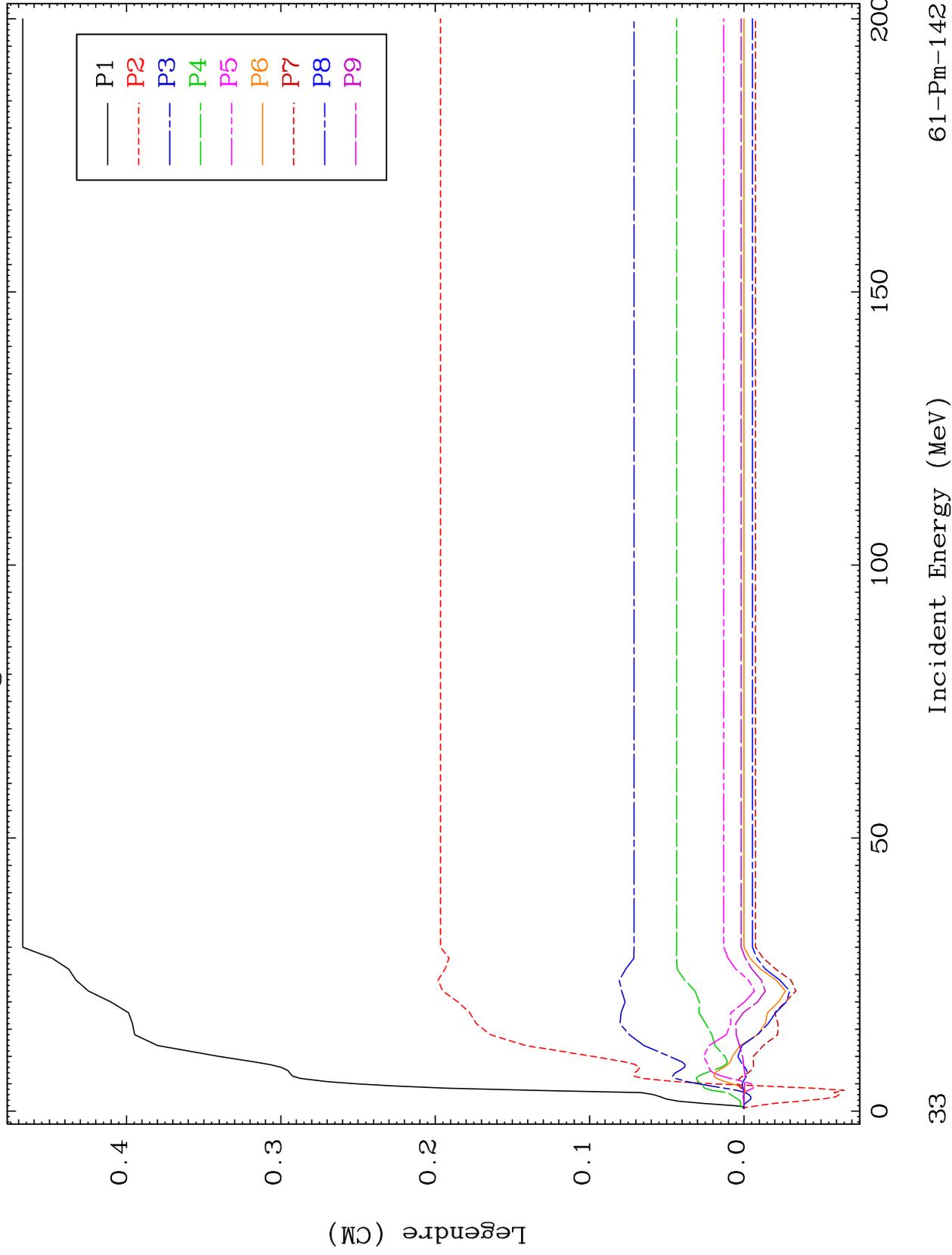




MAT 6134

460.0 keV (n,n') Level
Legendre Coefficients

61-Pm-142



61-Pm-142

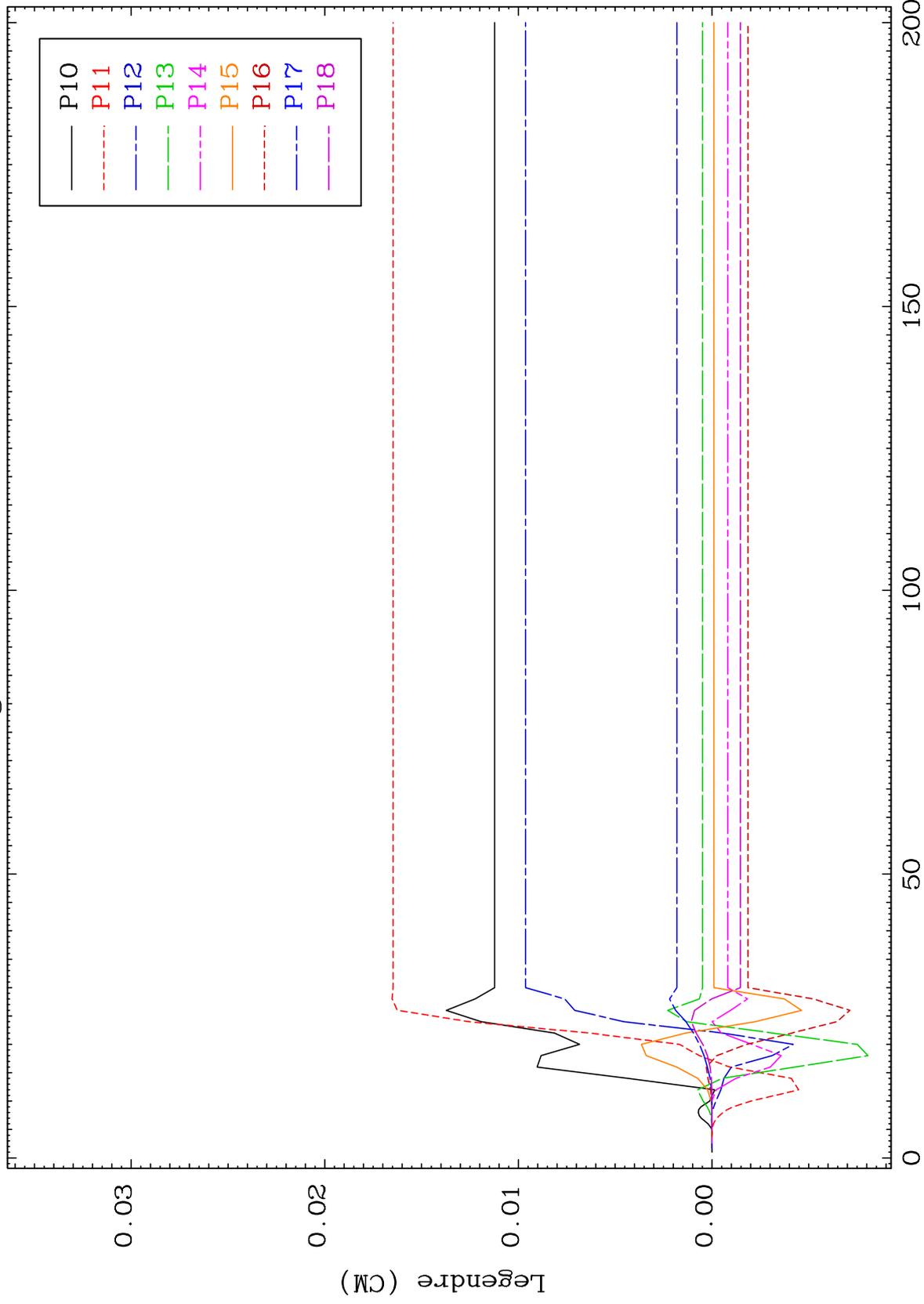
Incident Energy (MeV)

33

MAT 6134

460.0 keV (n,n') Level
Legendre Coefficients

61-Pm-142



34

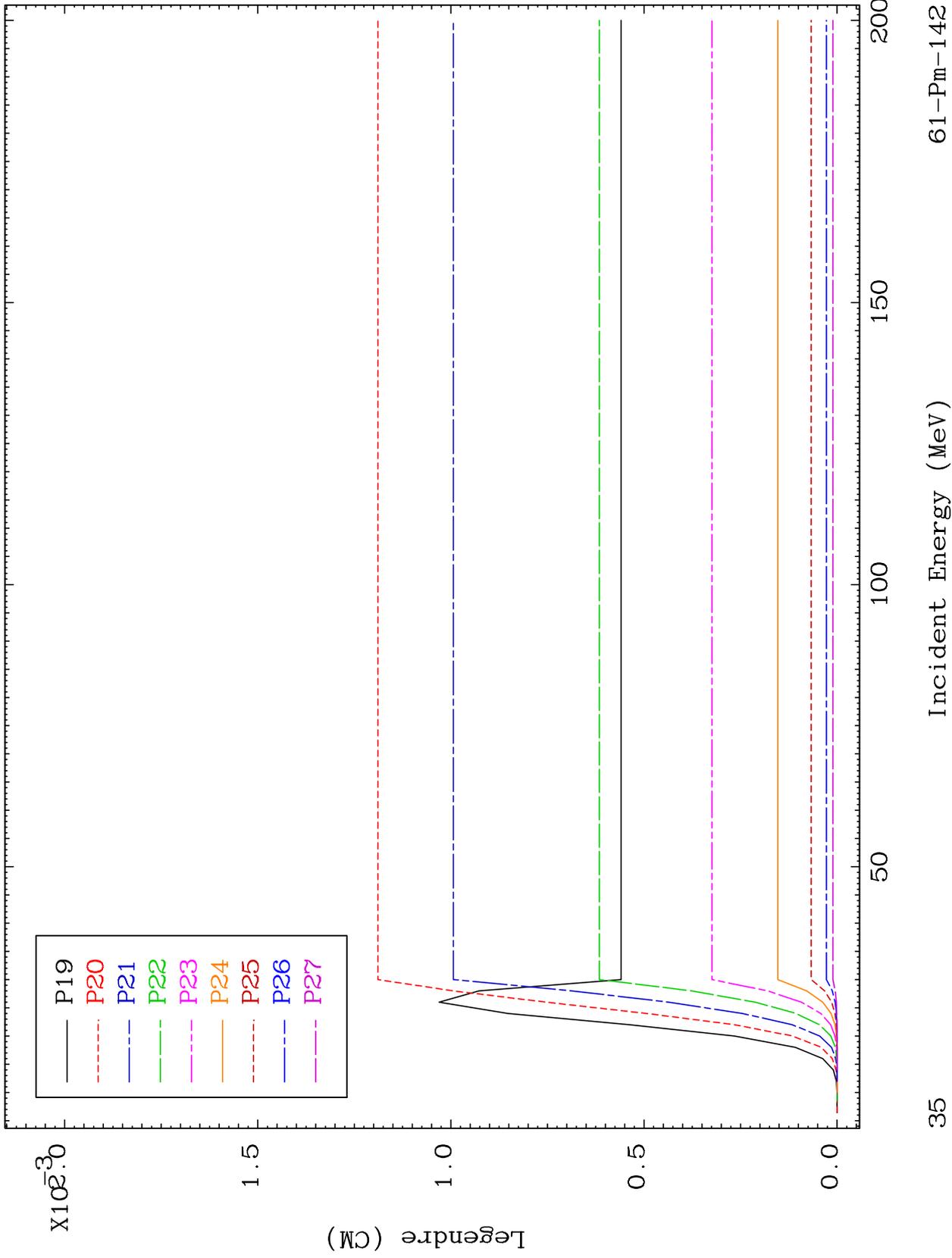
Incident Energy (MeV)

61-Pm-142

MAT 6134

460.0 keV (n,n') Level
Legendre Coefficients

61-Pm-142



35

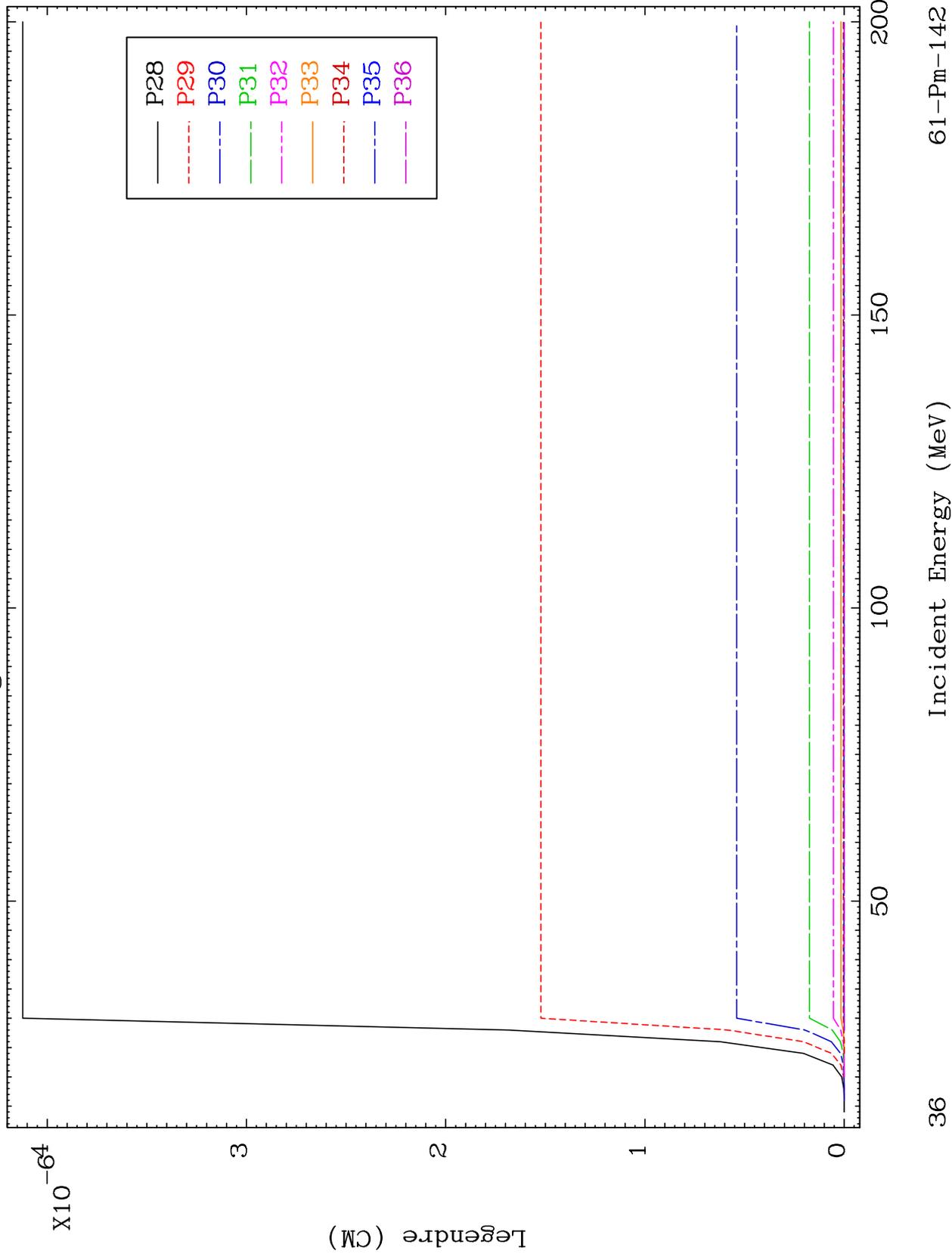
Incident Energy (MeV)

61-Pm-142

MAT 6134

460.0 keV (n,n') Level
Legendre Coefficients

61-Pm-142



36

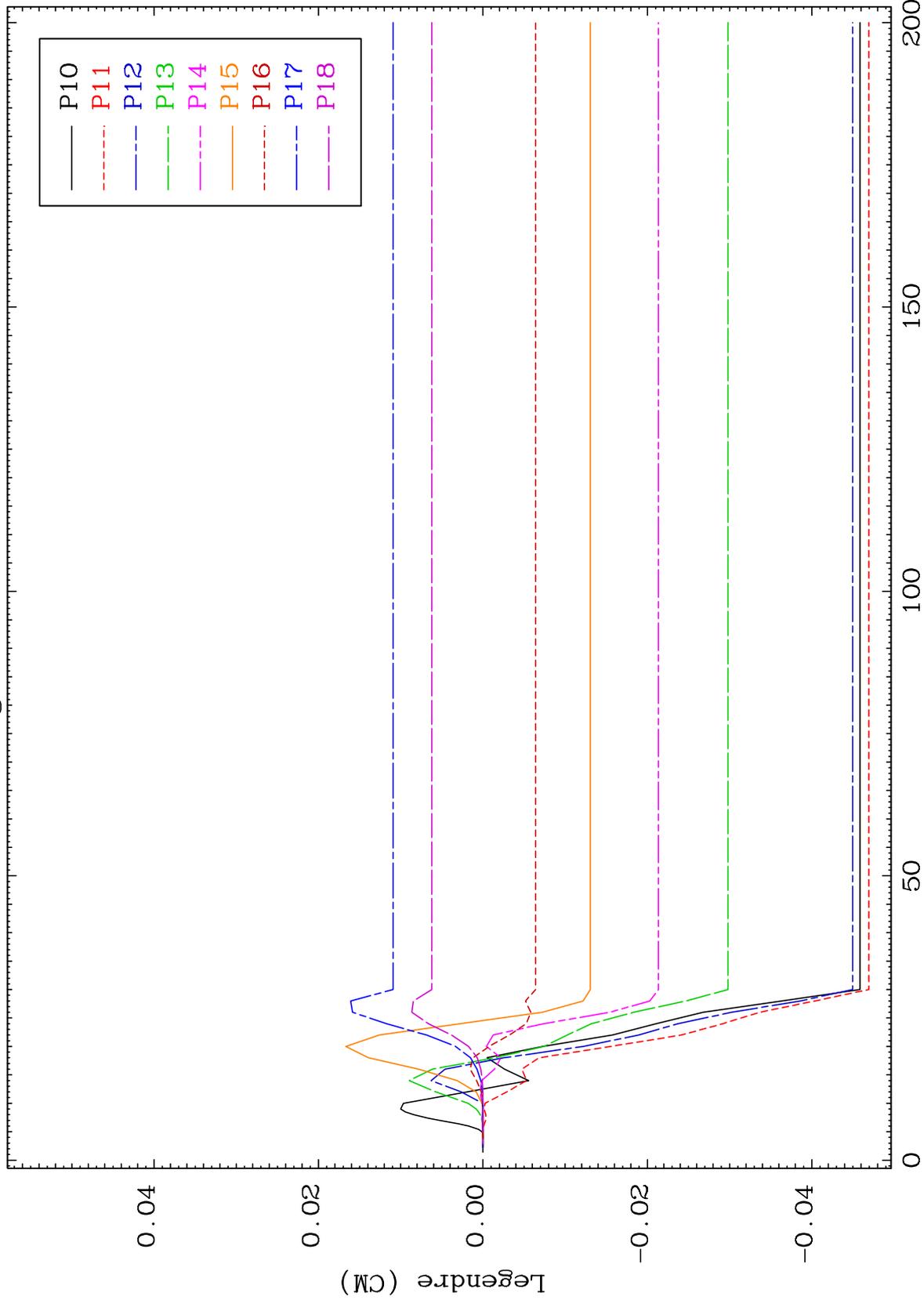
Incident Energy (MeV)

61-Pm-142

MAT 6134

496.3 keV (n,n') Level
Legendre Coefficients

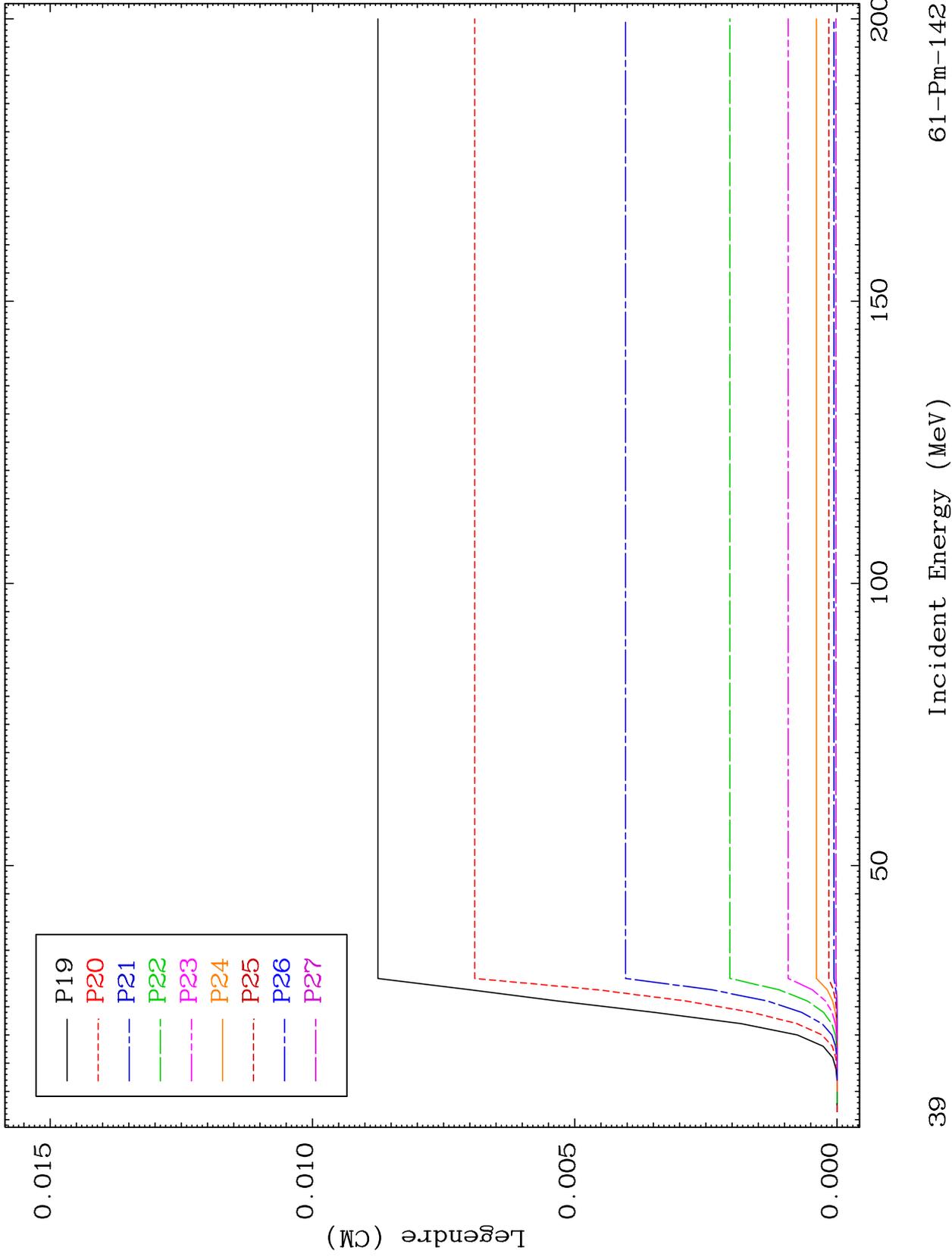
61-Pm-142



38

Incident Energy (MeV)

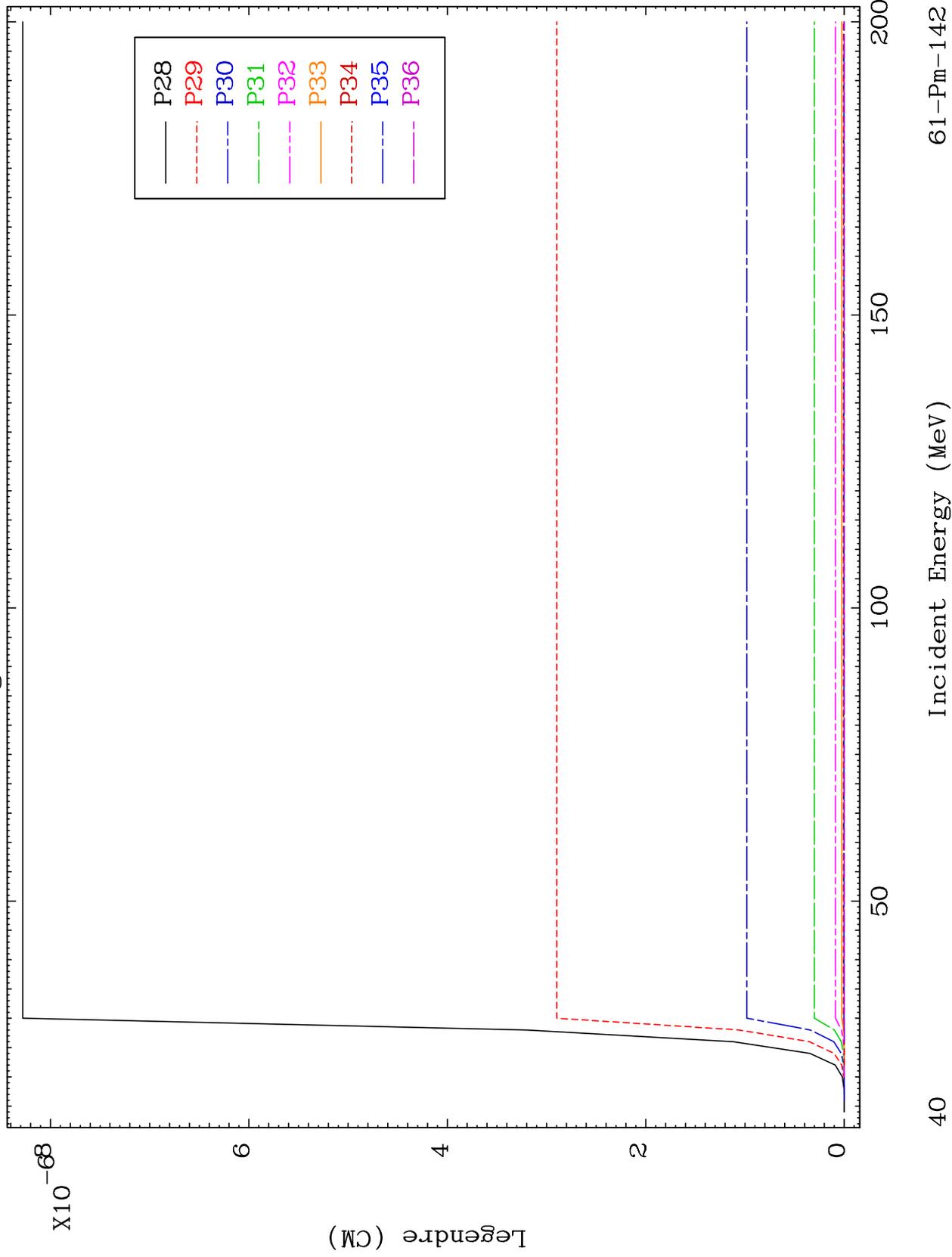
61-Pm-142

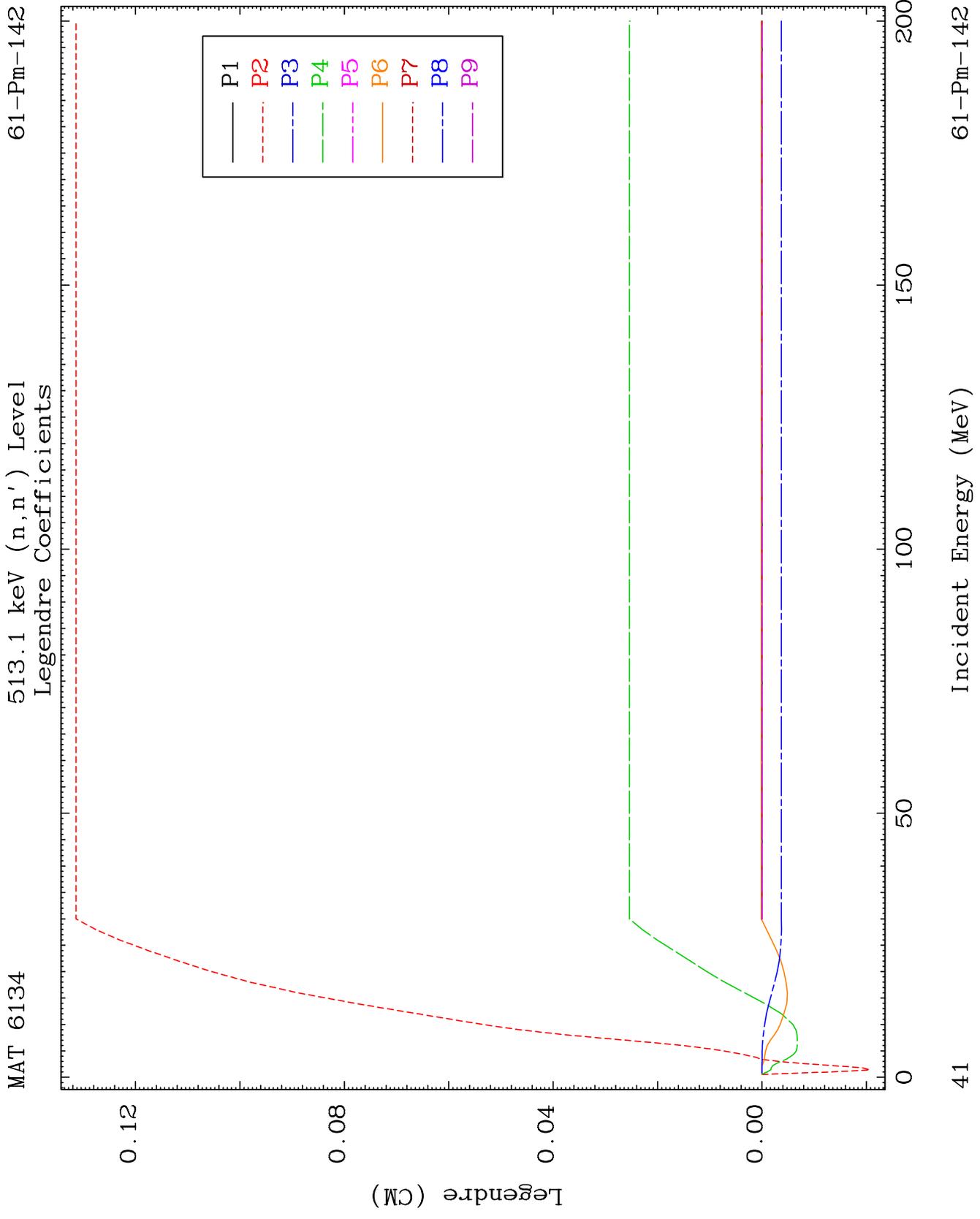


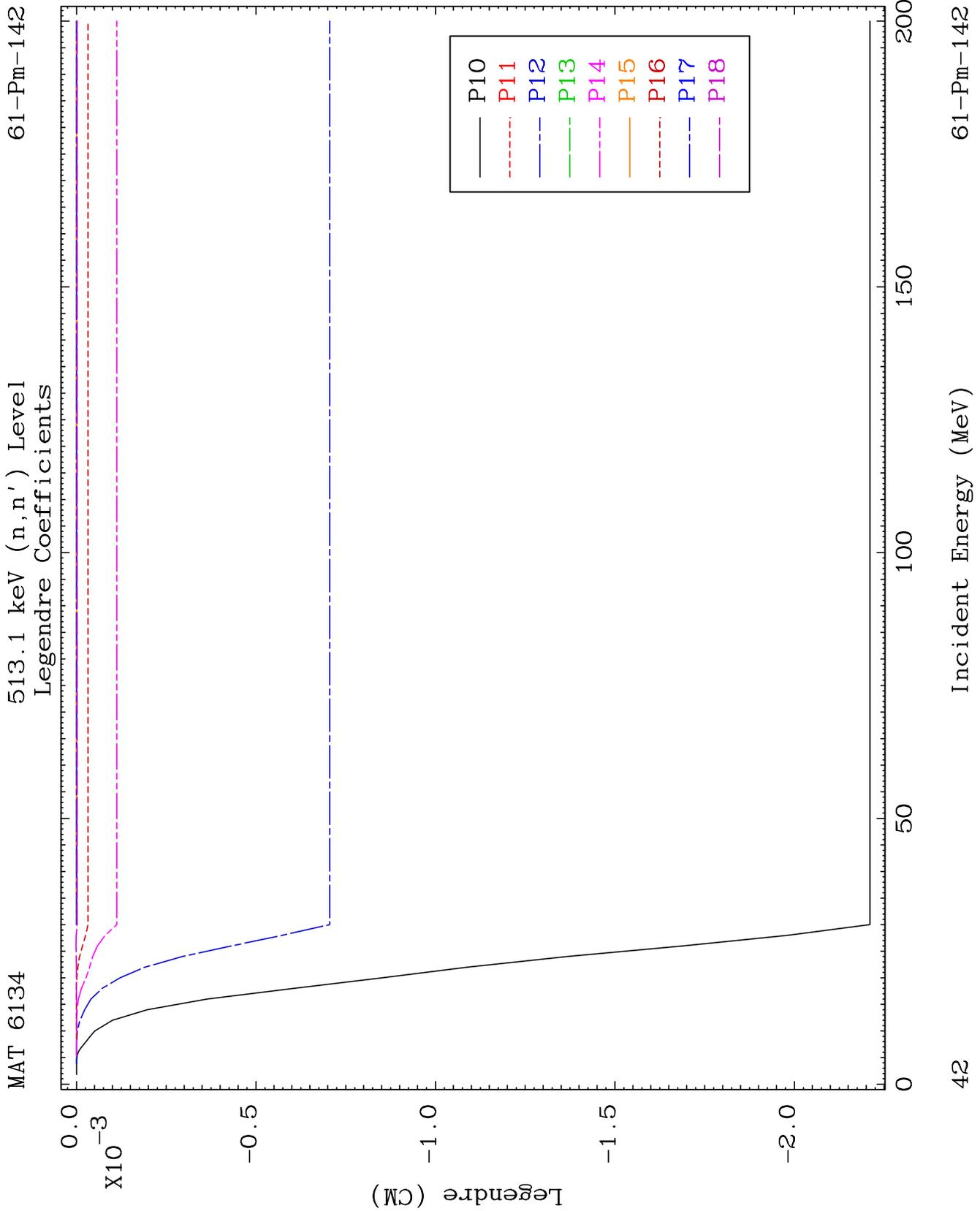
MAT 6134

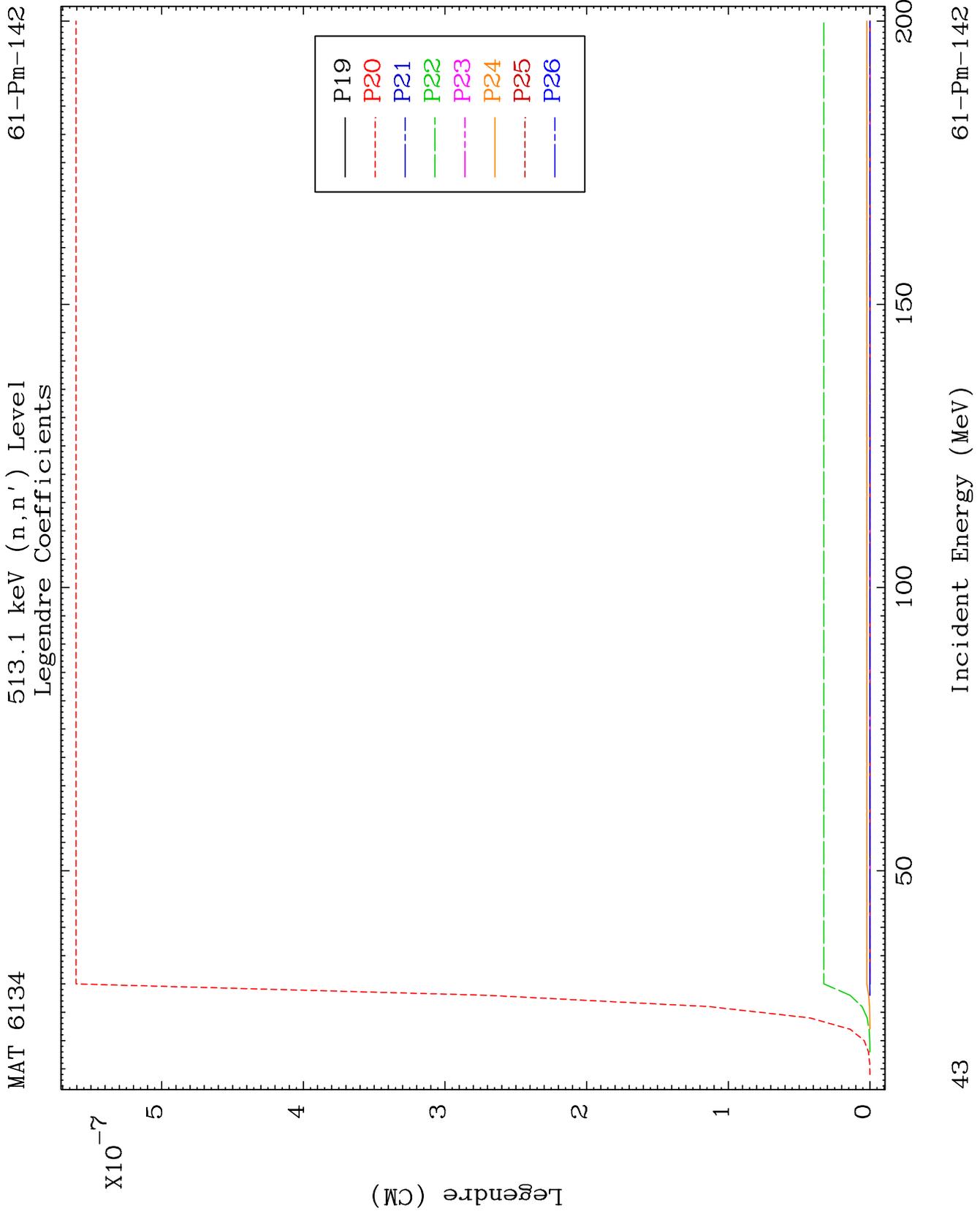
496.3 keV (n, n') Level
Legendre Coefficients

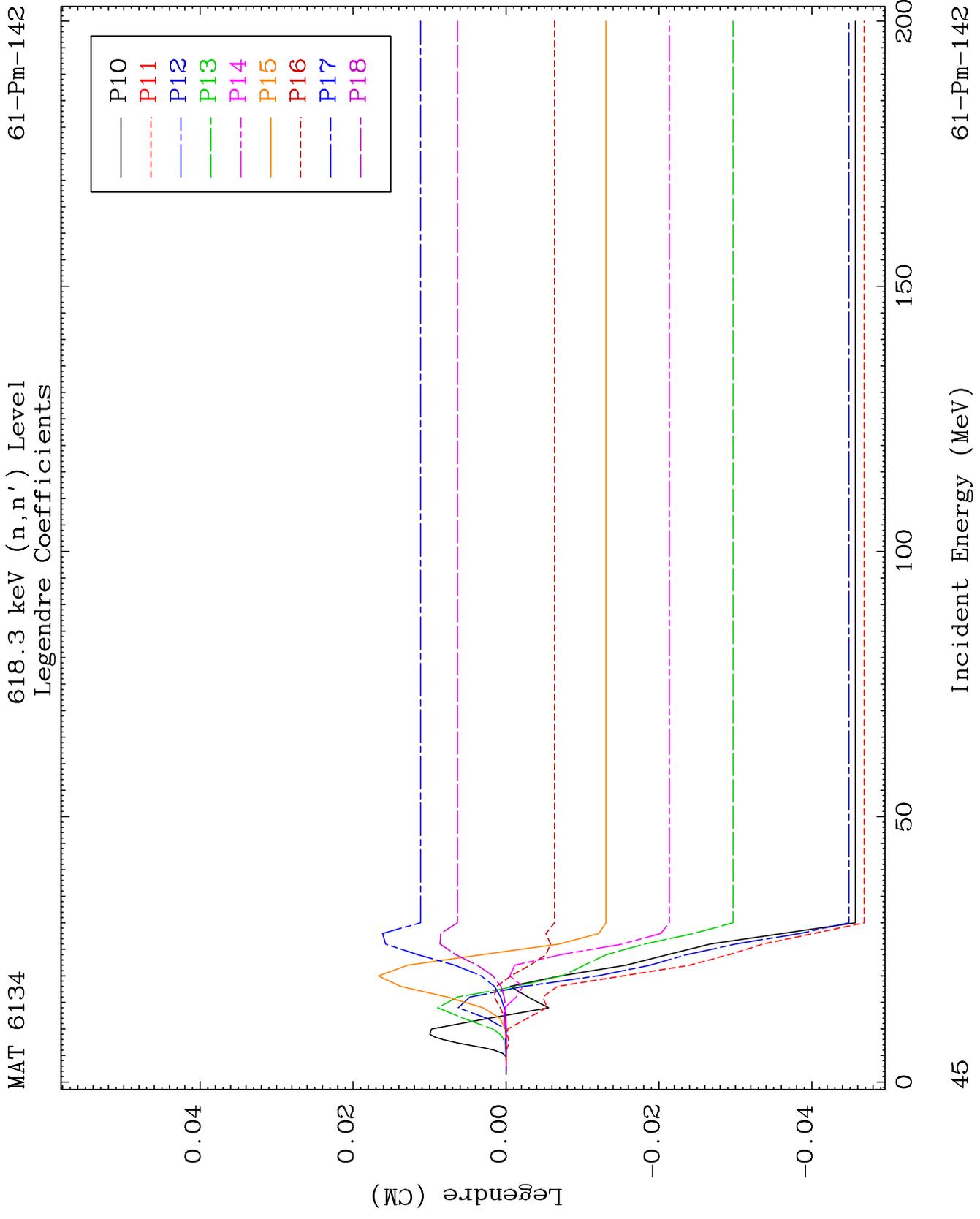
61-Pm-142







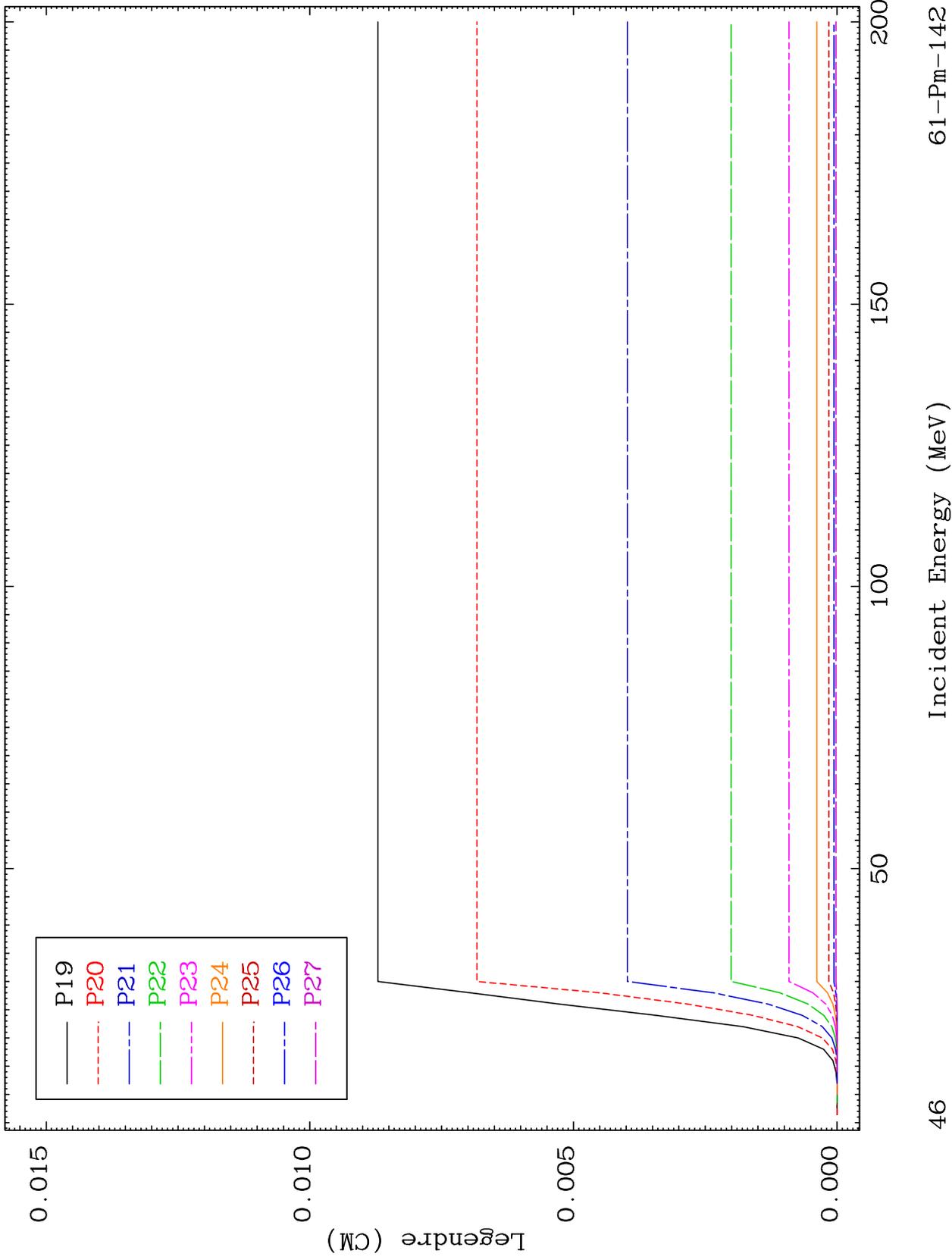




MAT 6134

618.3 keV (n,n') Level
Legendre Coefficients

61-Pm-142



46

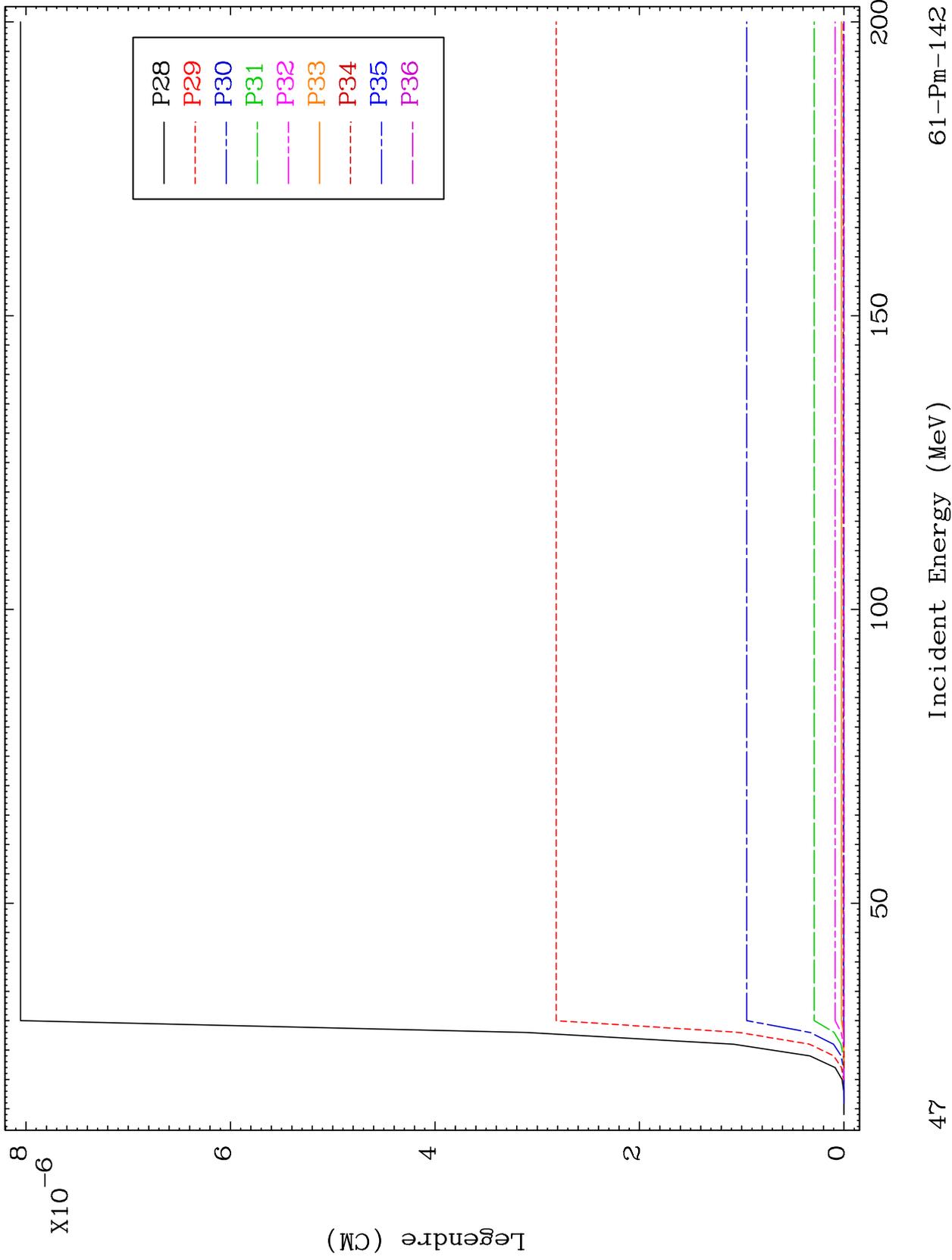
Incident Energy (MeV)

61-Pm-142

MAT 6134

618.3 keV (n,n') Level
Legendre Coefficients

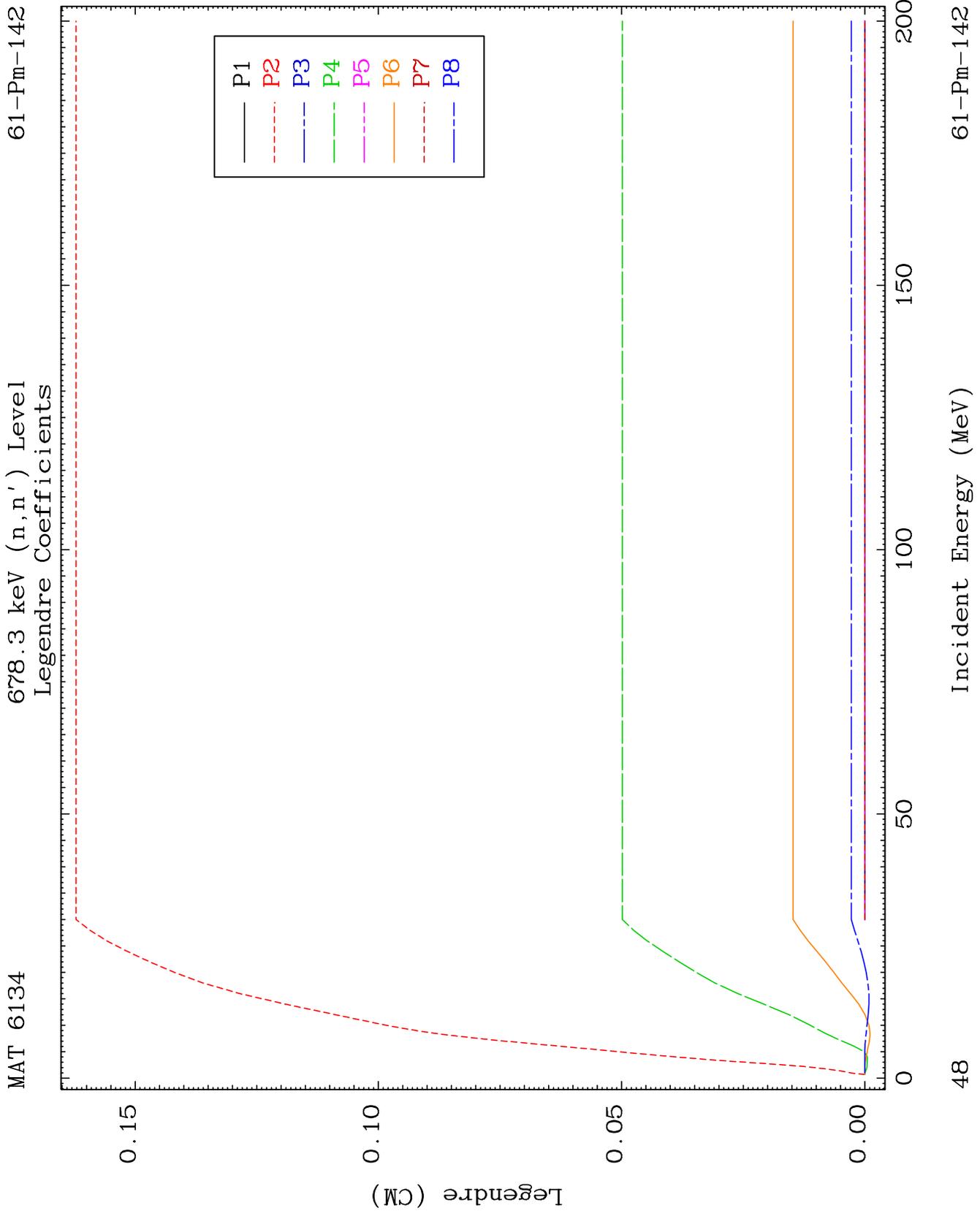
61-Pm-142



47

Incident Energy (MeV)

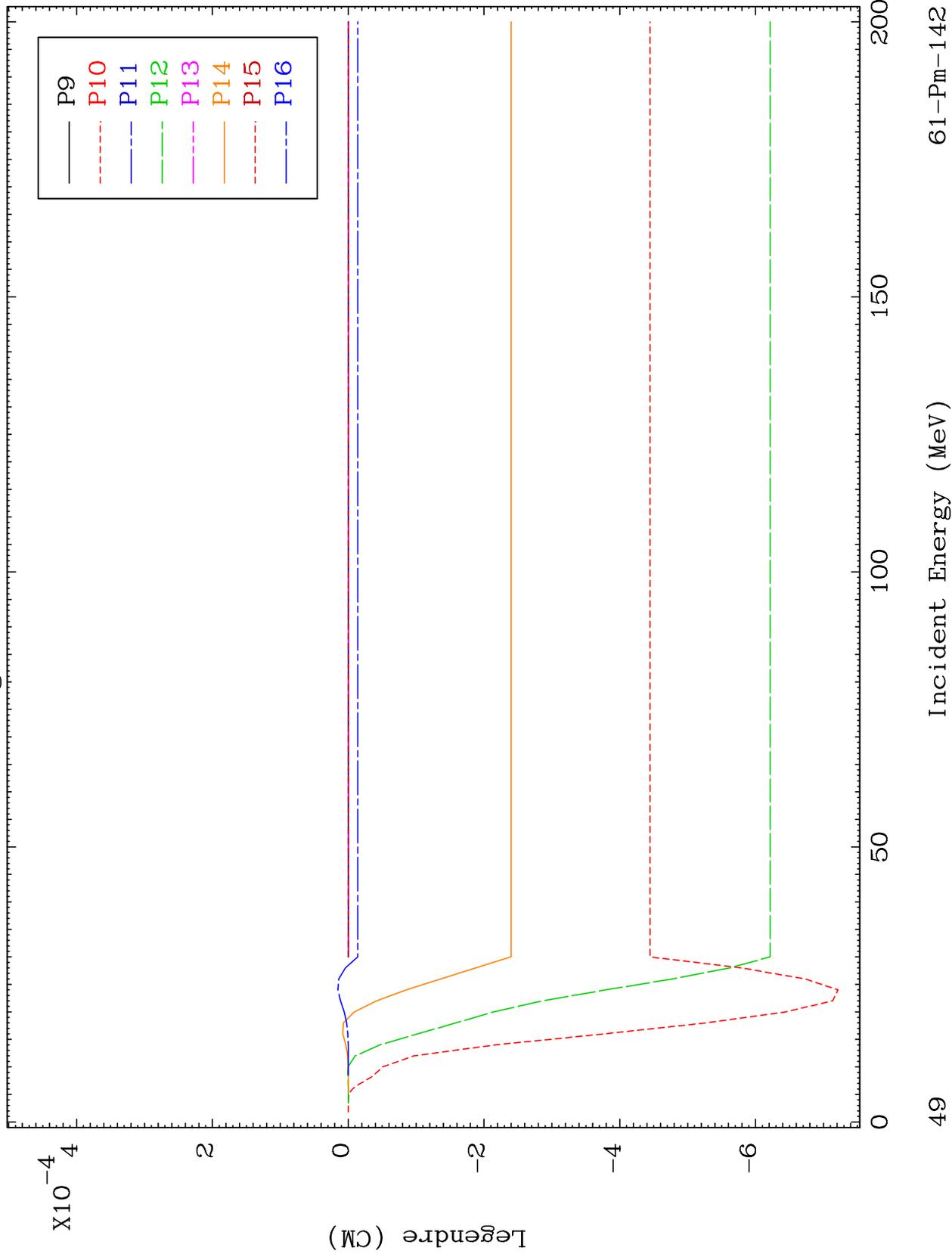
61-Pm-142

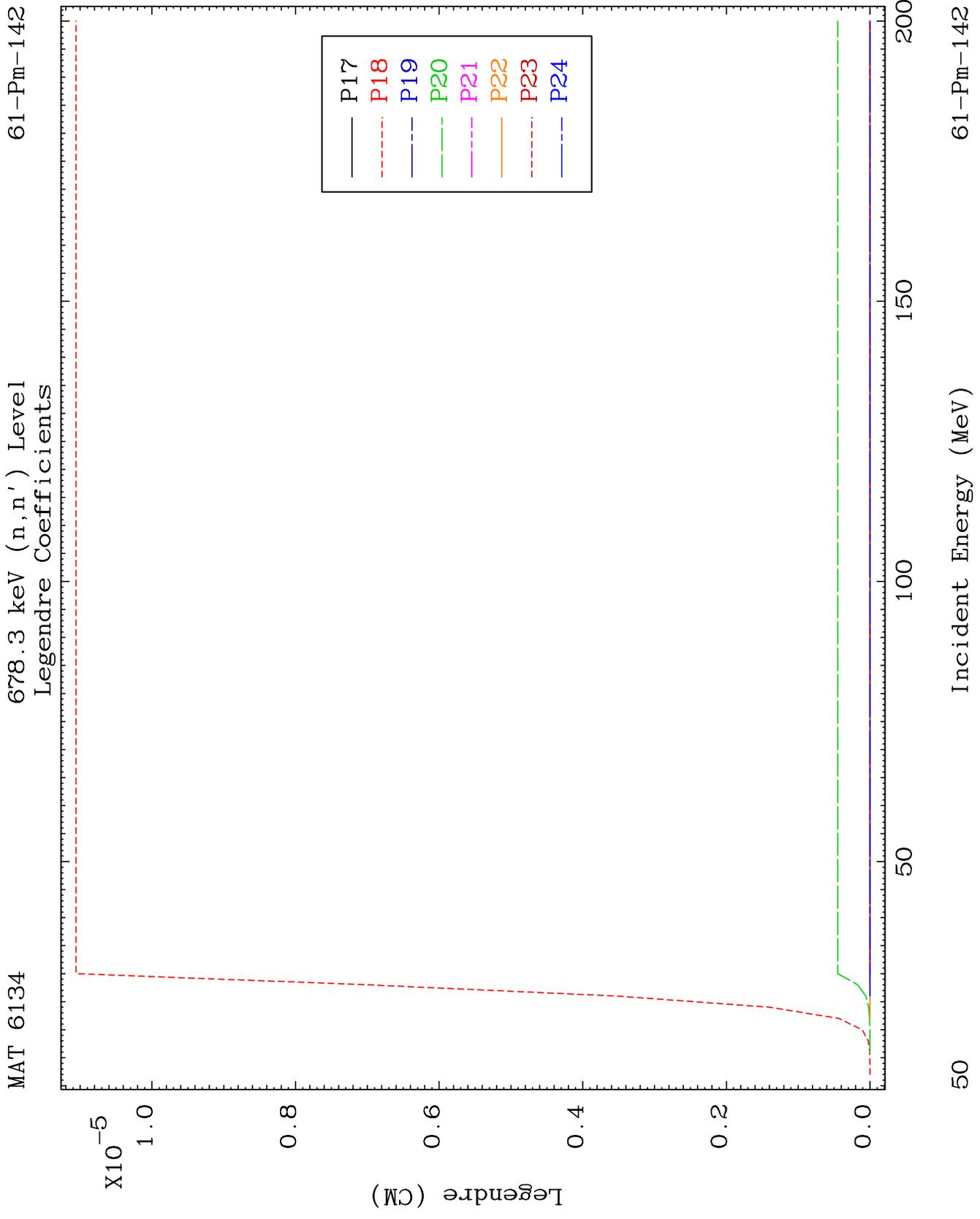


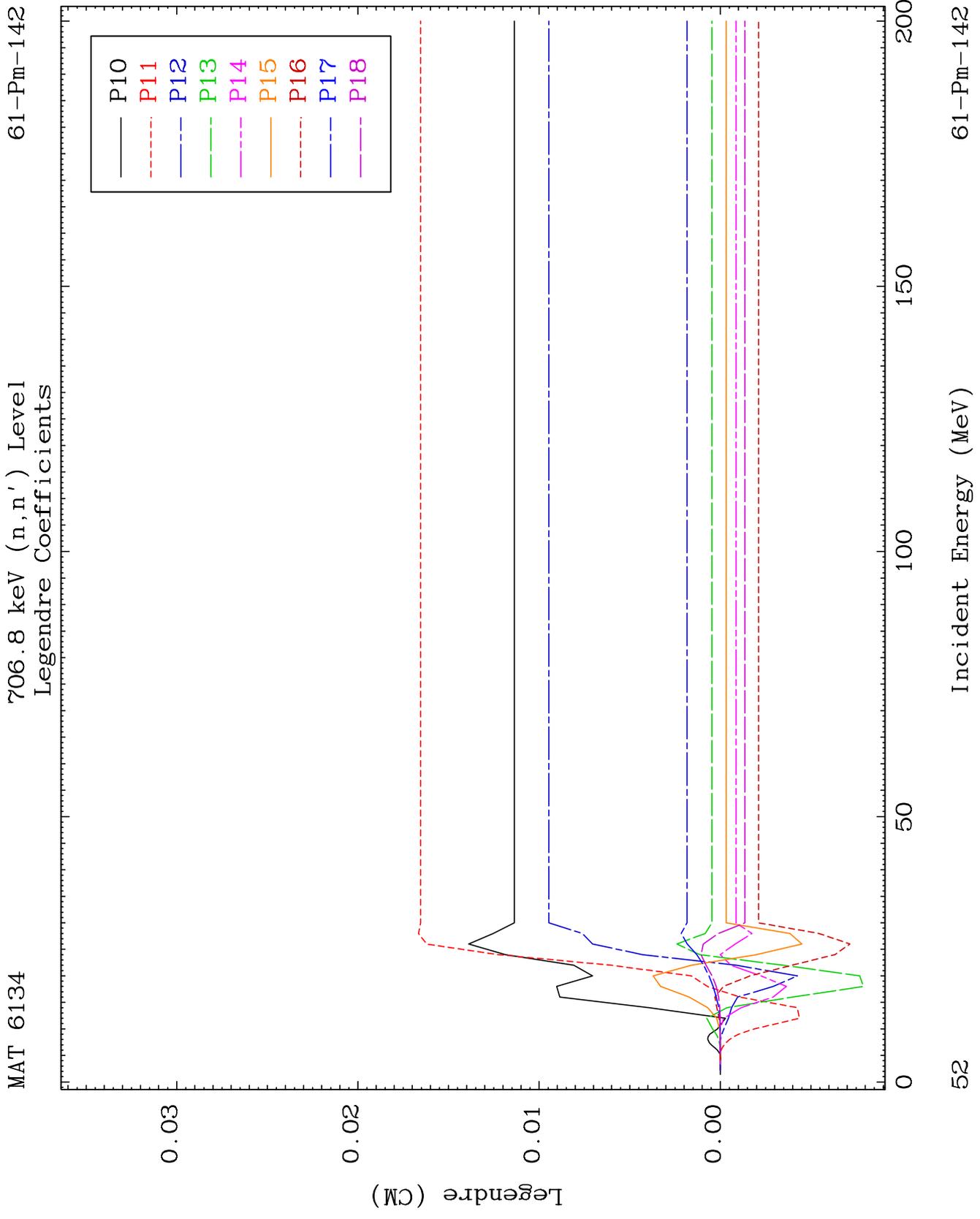
MAT 6134

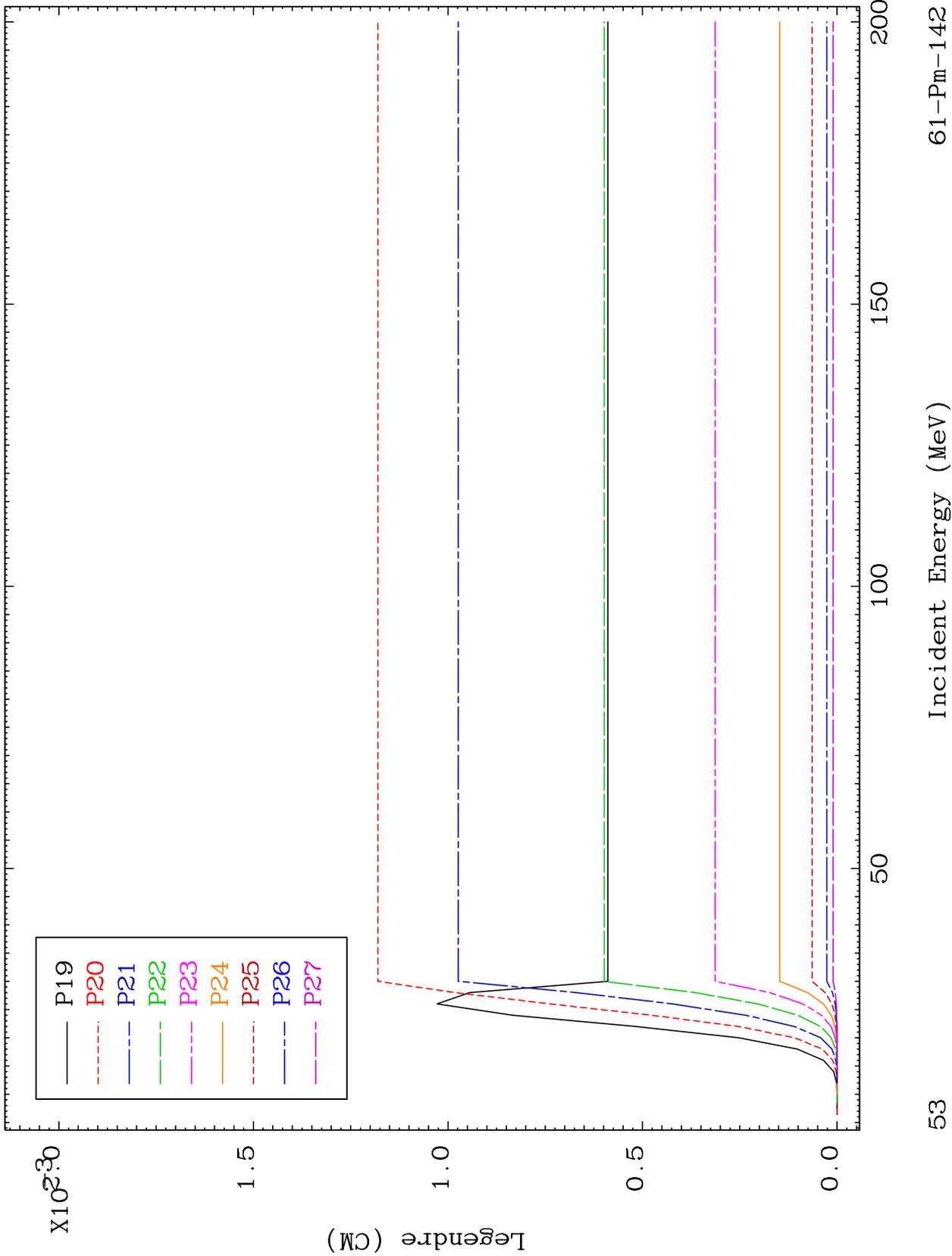
678.3 keV (n,n') Level
Legendre Coefficients

61-Pm-142





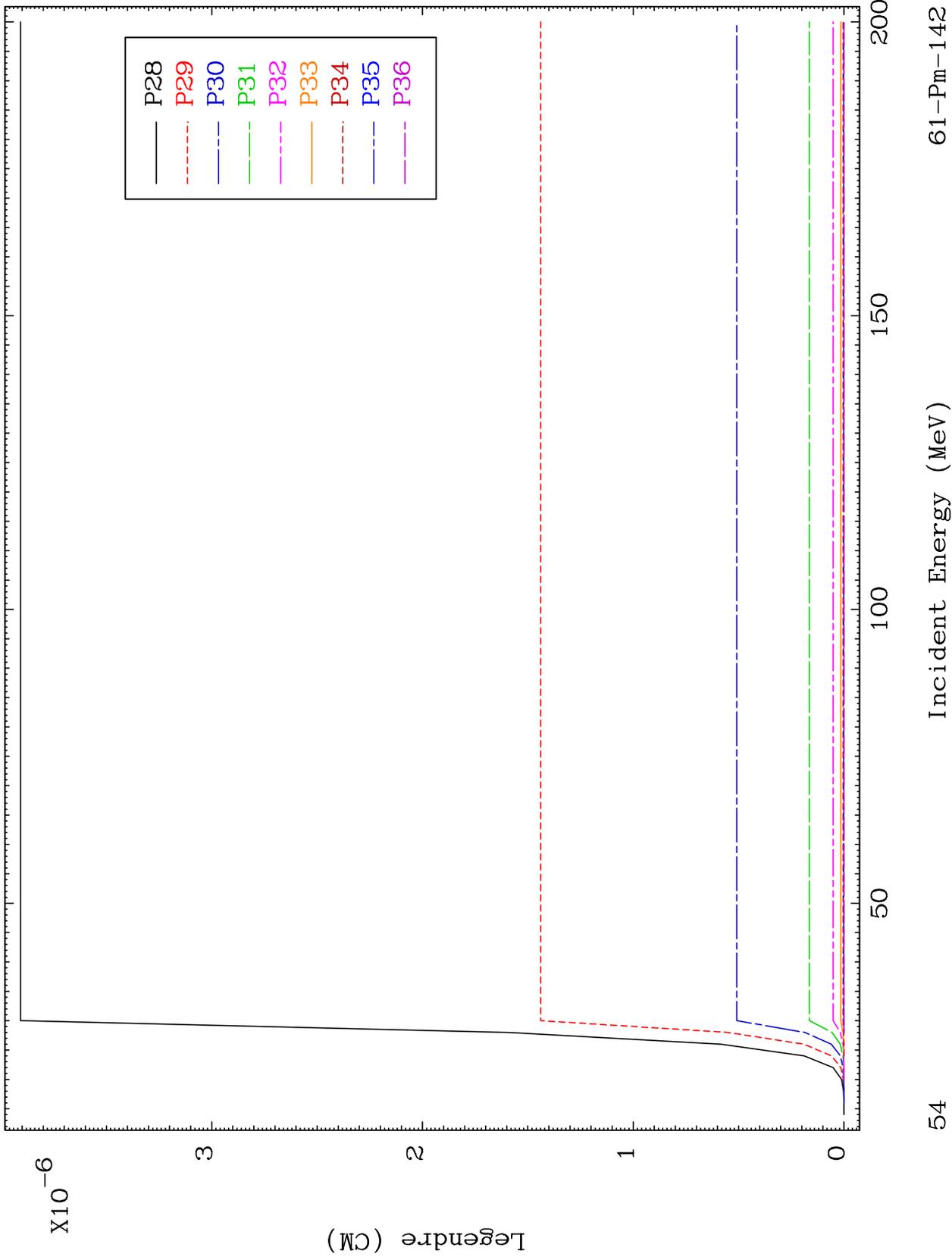




MAT 6134

706.8 keV (n,n') Level
Legendre Coefficients

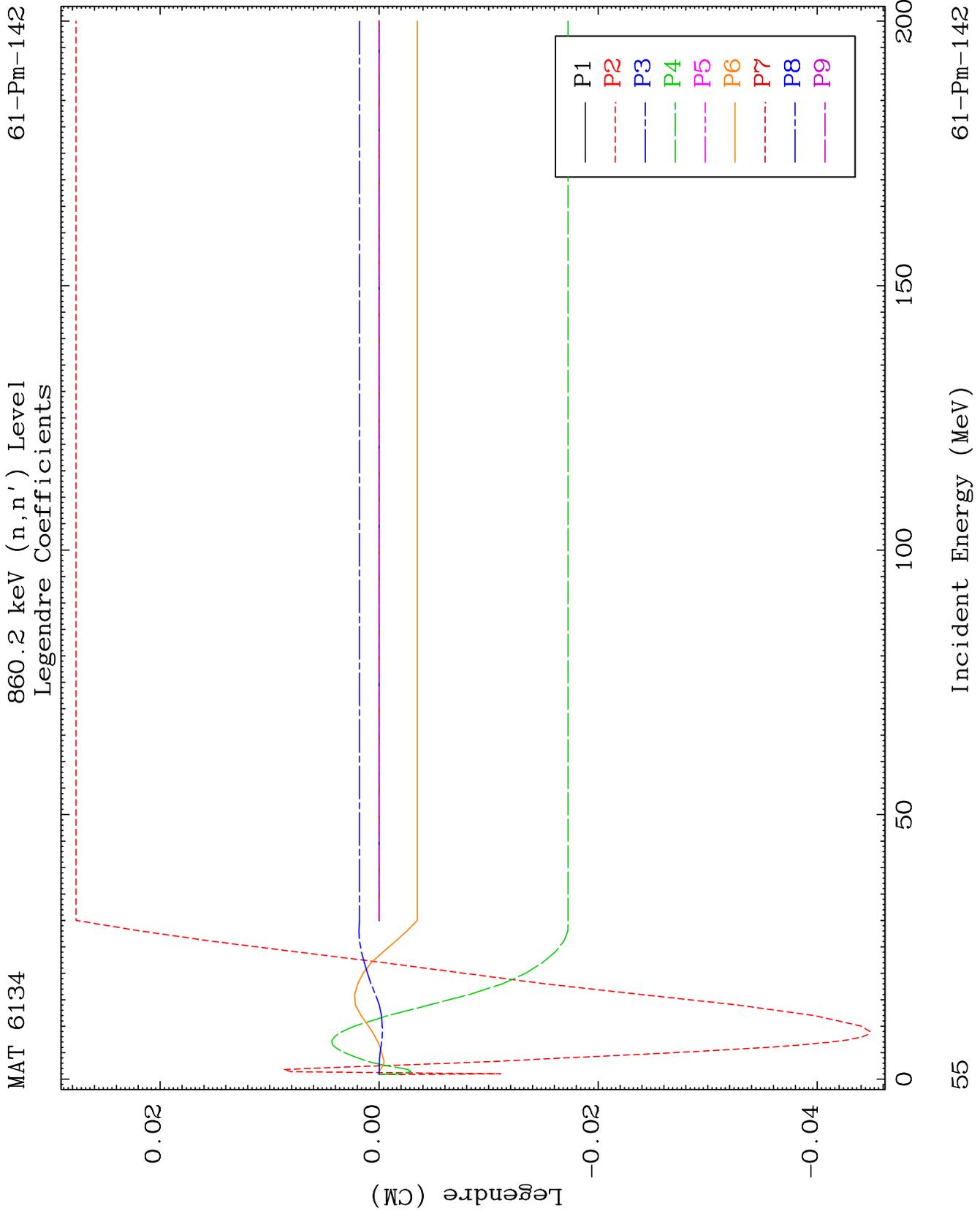
61-Pm-142



54

Incident Energy (MeV)

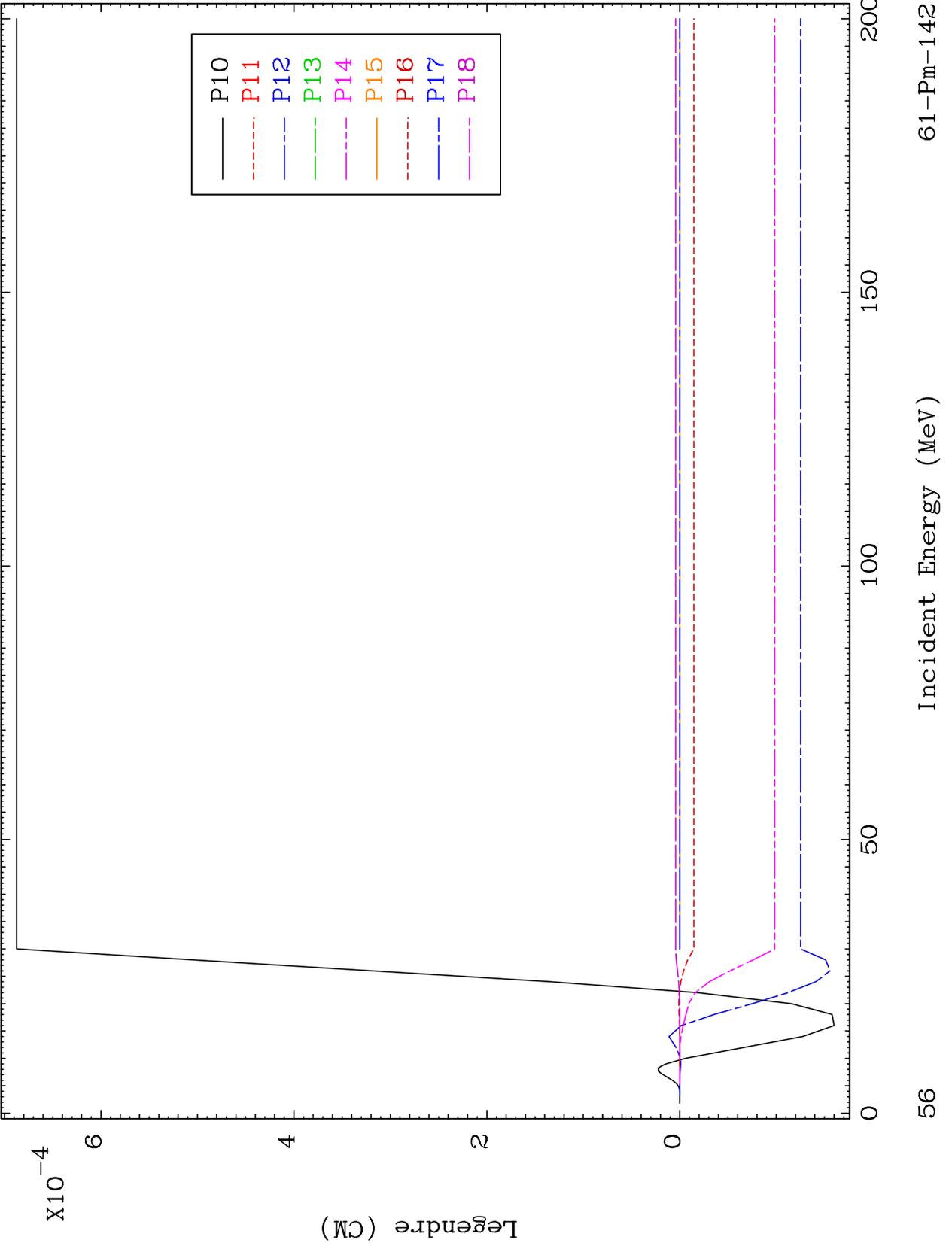
61-Pm-142



MAT 6134

860.2 keV (n,n') Level
Legendre Coefficients

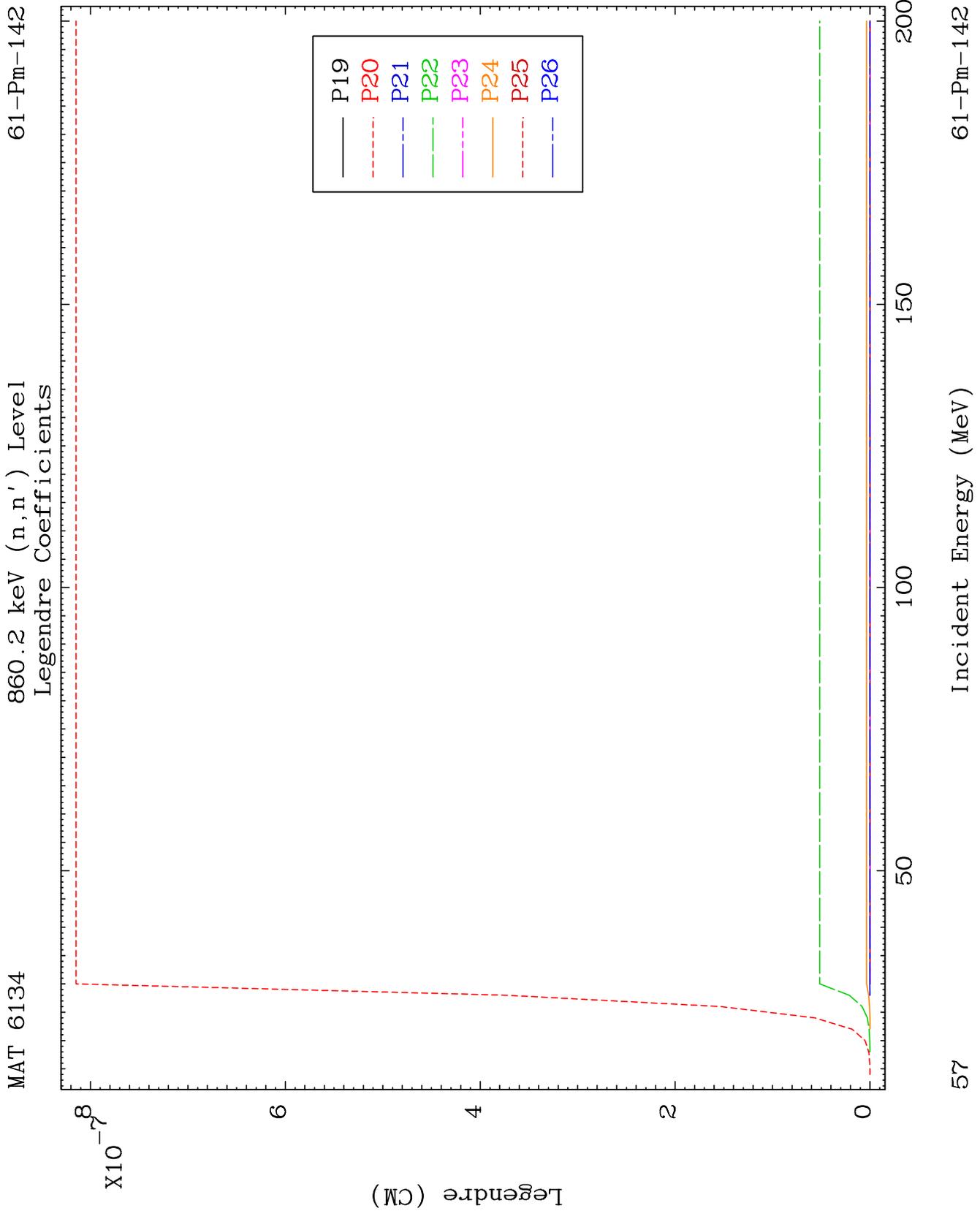
61-Pm-142

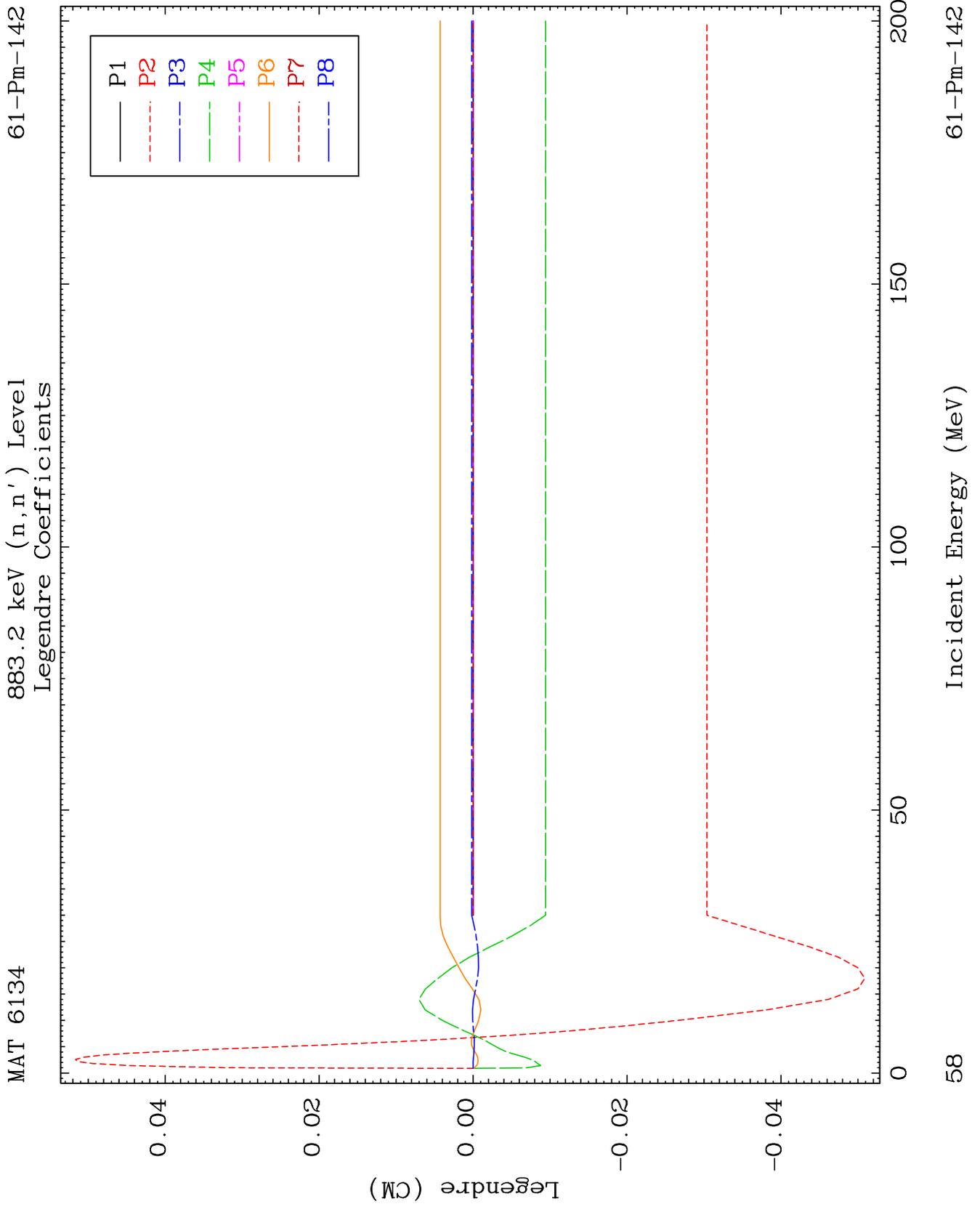


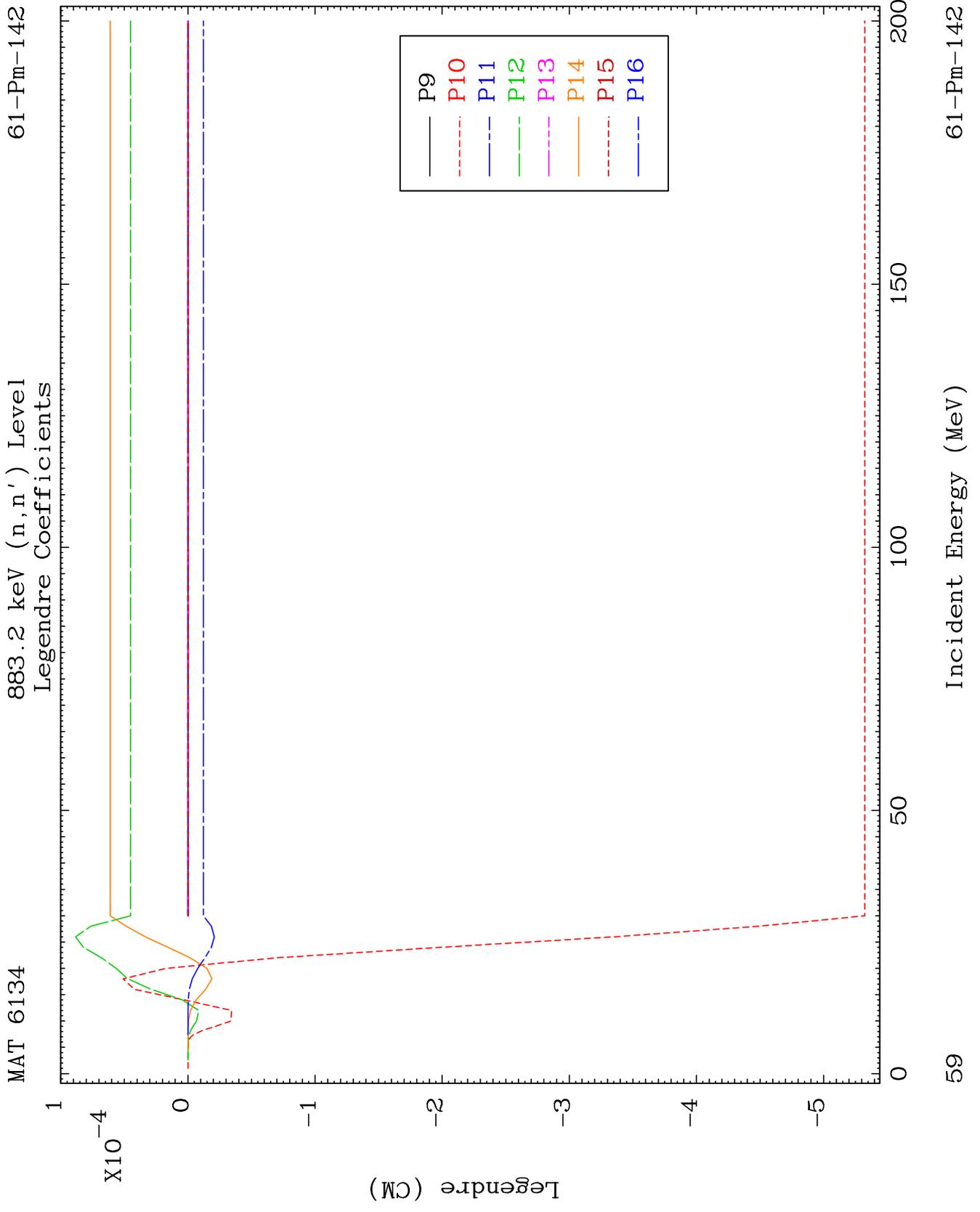
61-Pm-142

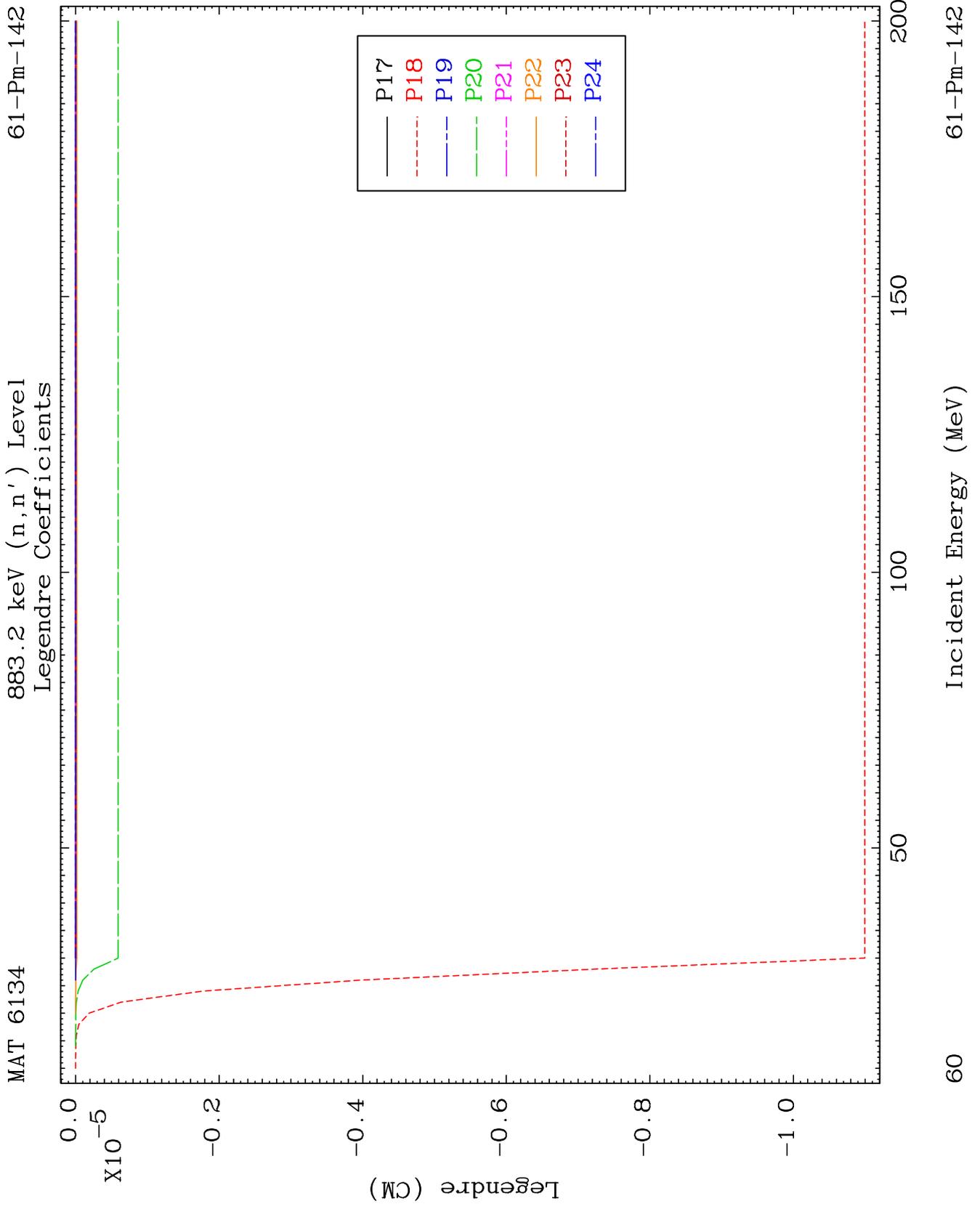
Incident Energy (MeV)

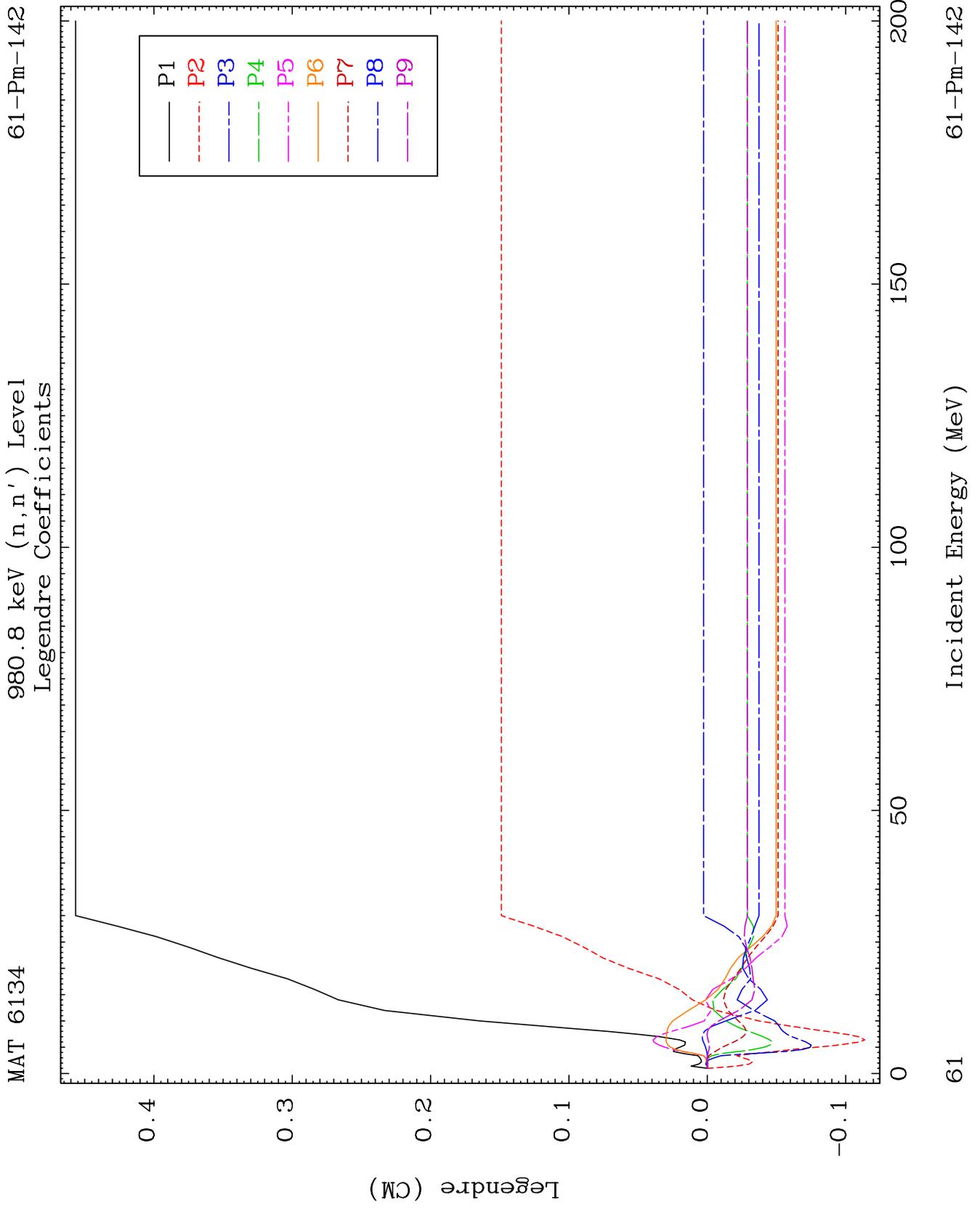
56







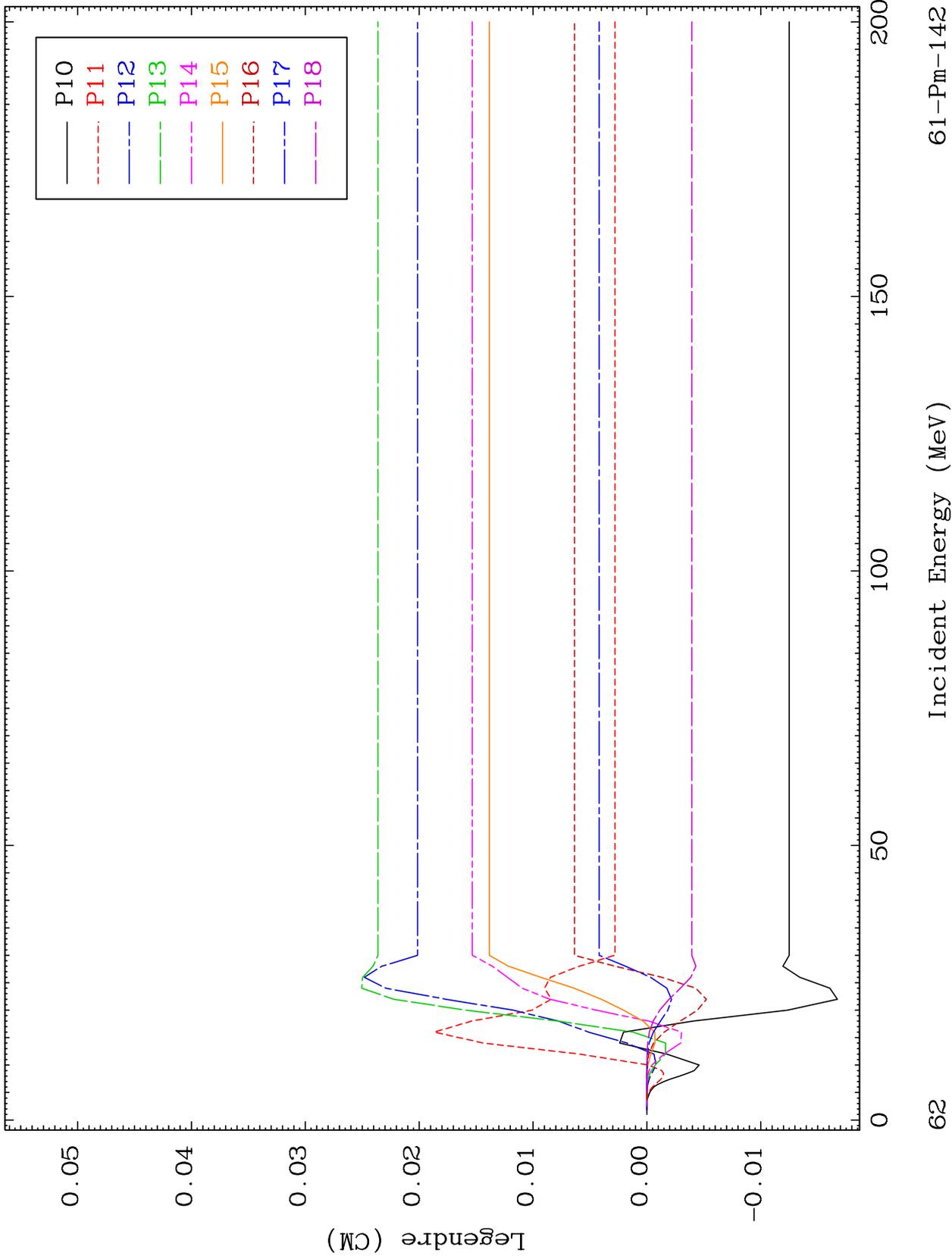




MAT 6134

980.8 keV (n,n') Level
Legendre Coefficients

61-Pm-142



62

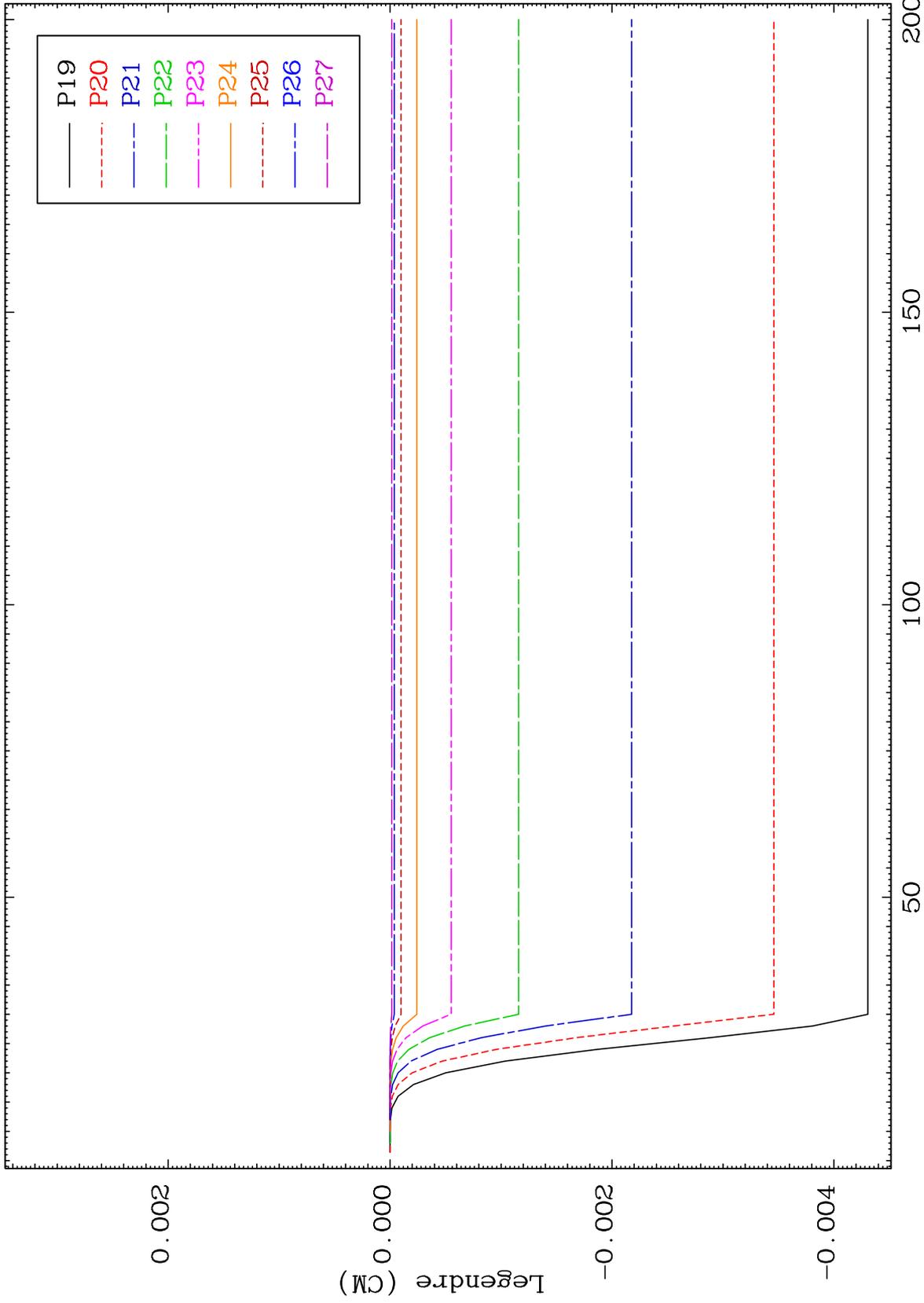
Incident Energy (MeV)

61-Pm-142

MAT 6134

980.8 keV (n,n') Level
Legendre Coefficients

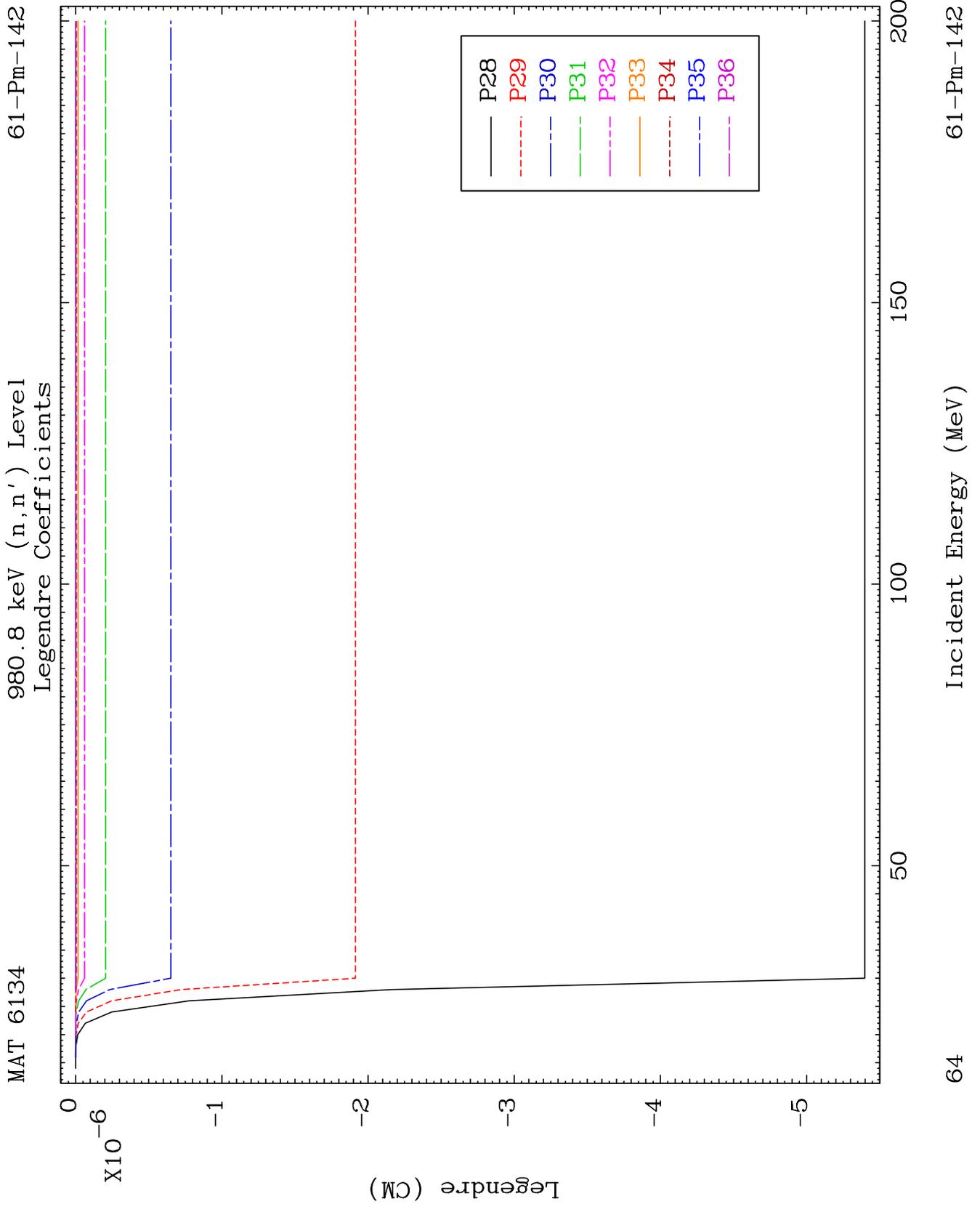
61-Pm-142



63

Incident Energy (MeV)

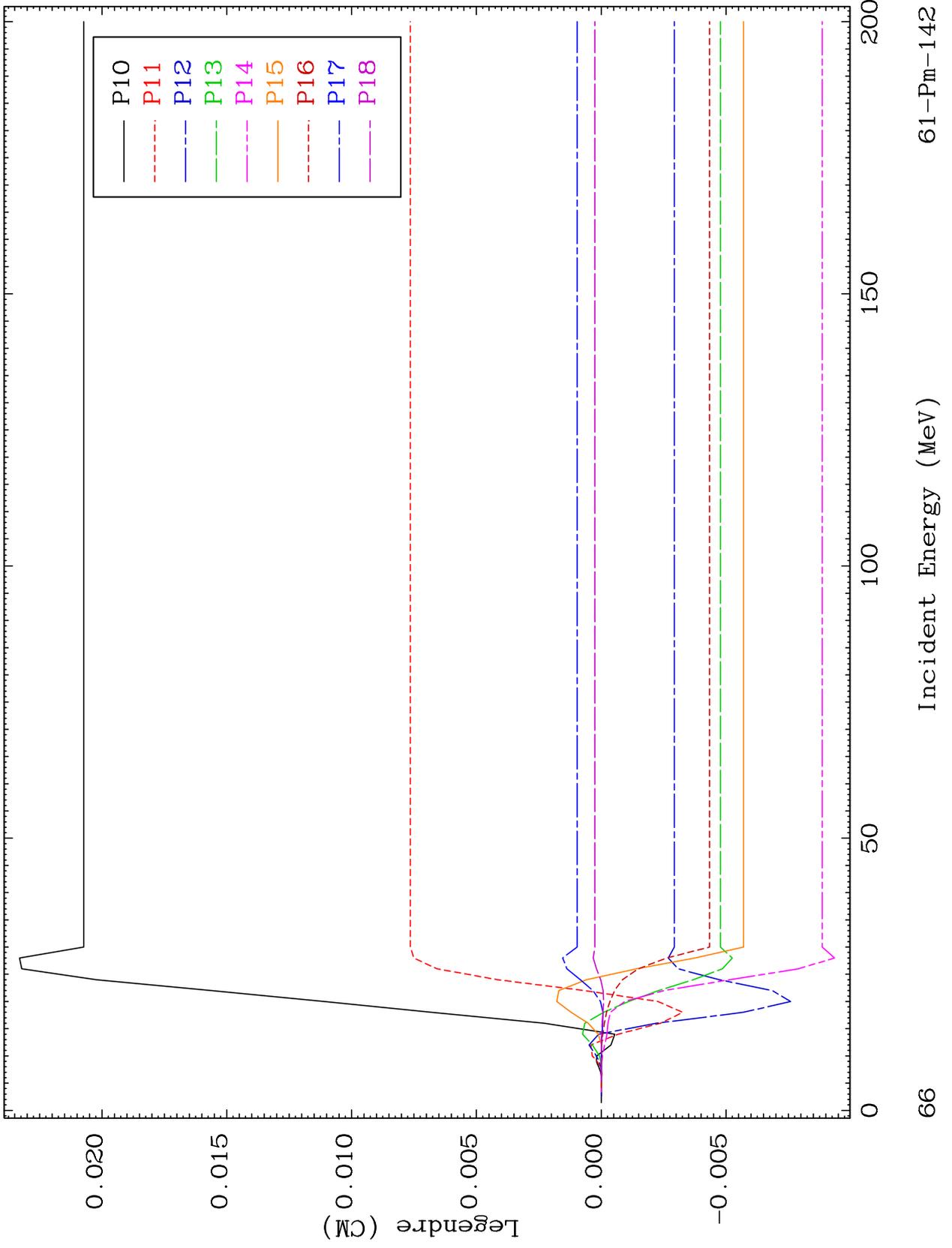
61-Pm-142



MAT 6134

998.0 keV (n,n') Level
Legendre Coefficients

61-Pm-142



66

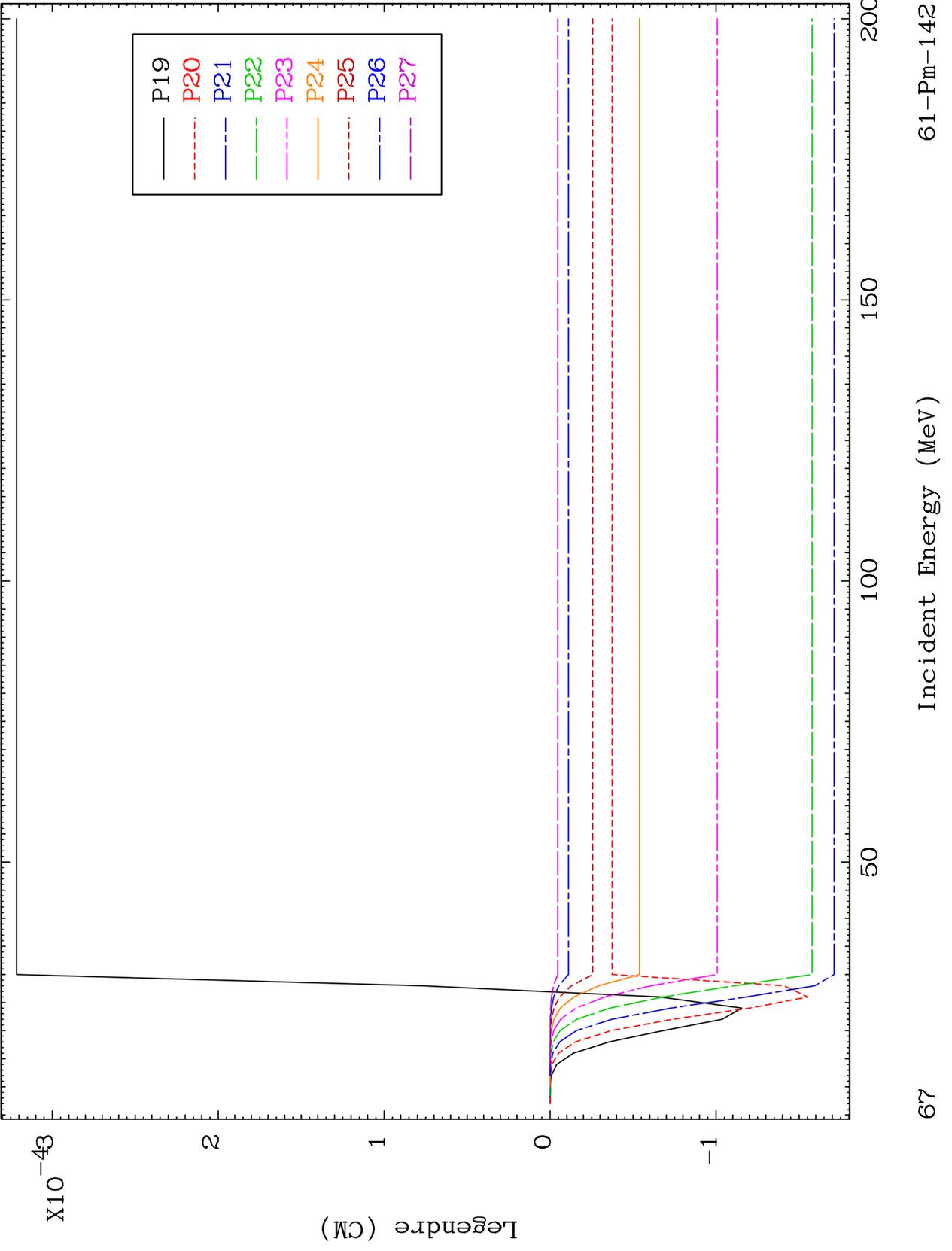
Incident Energy (MeV)

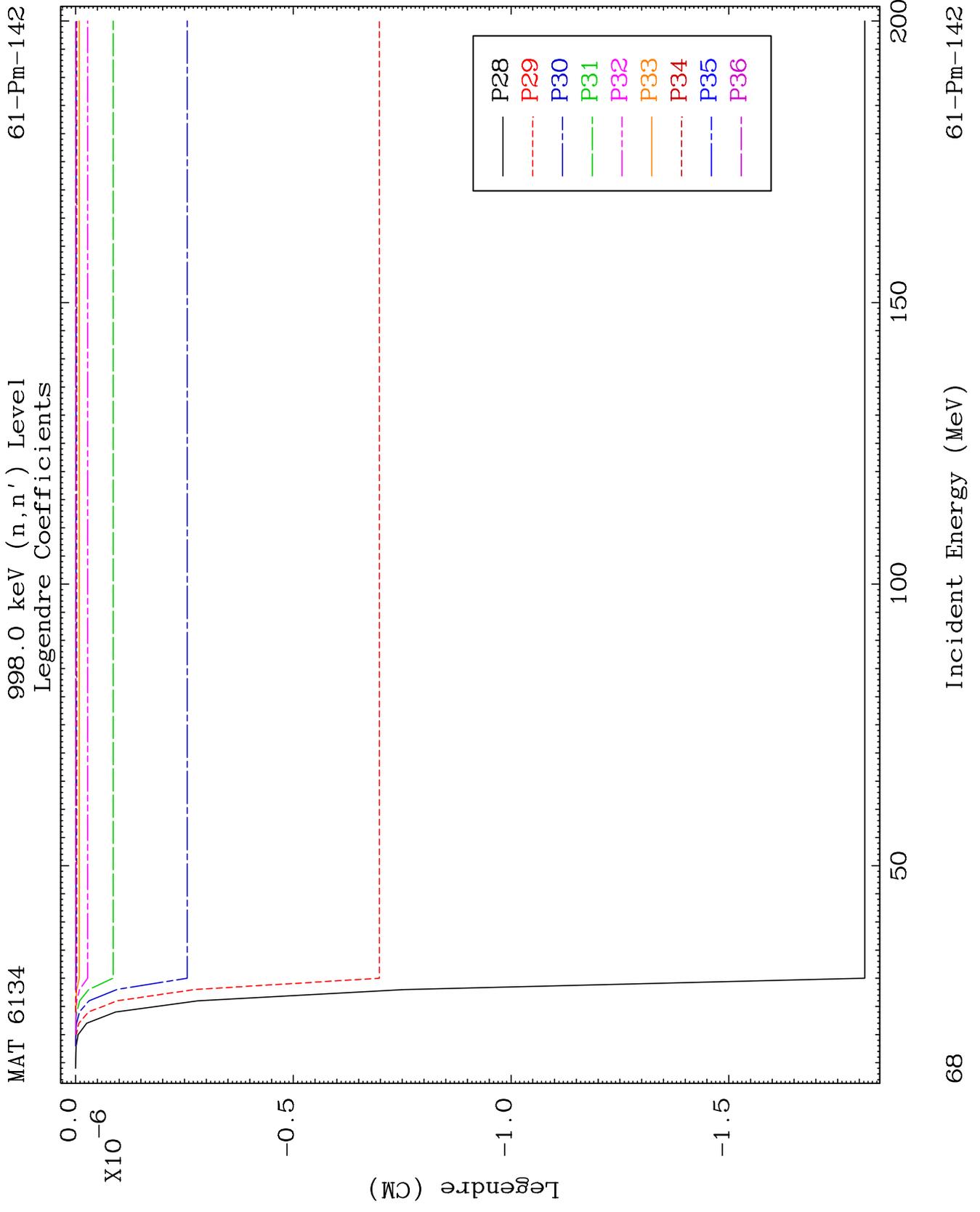
61-Pm-142

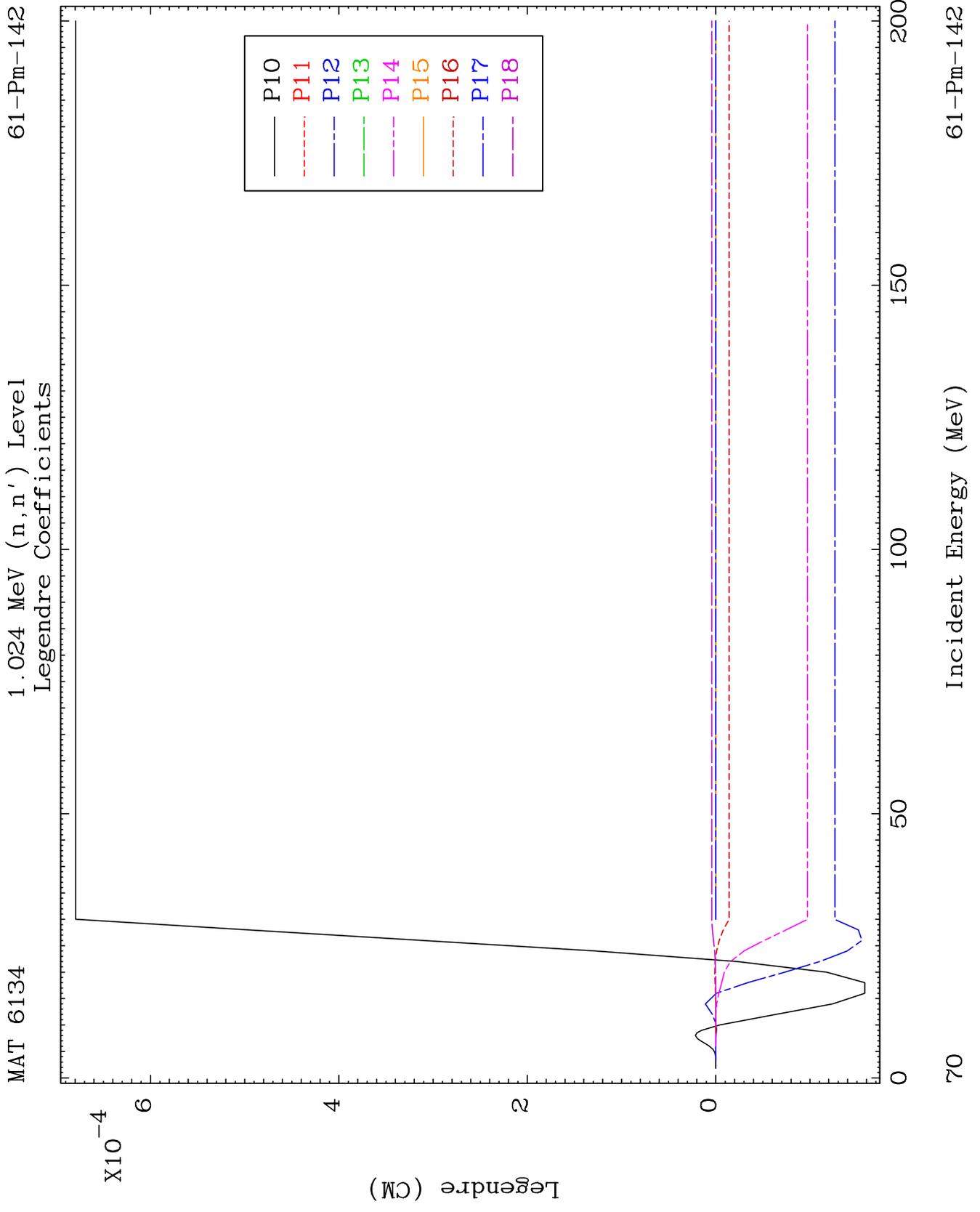
MAT 6134

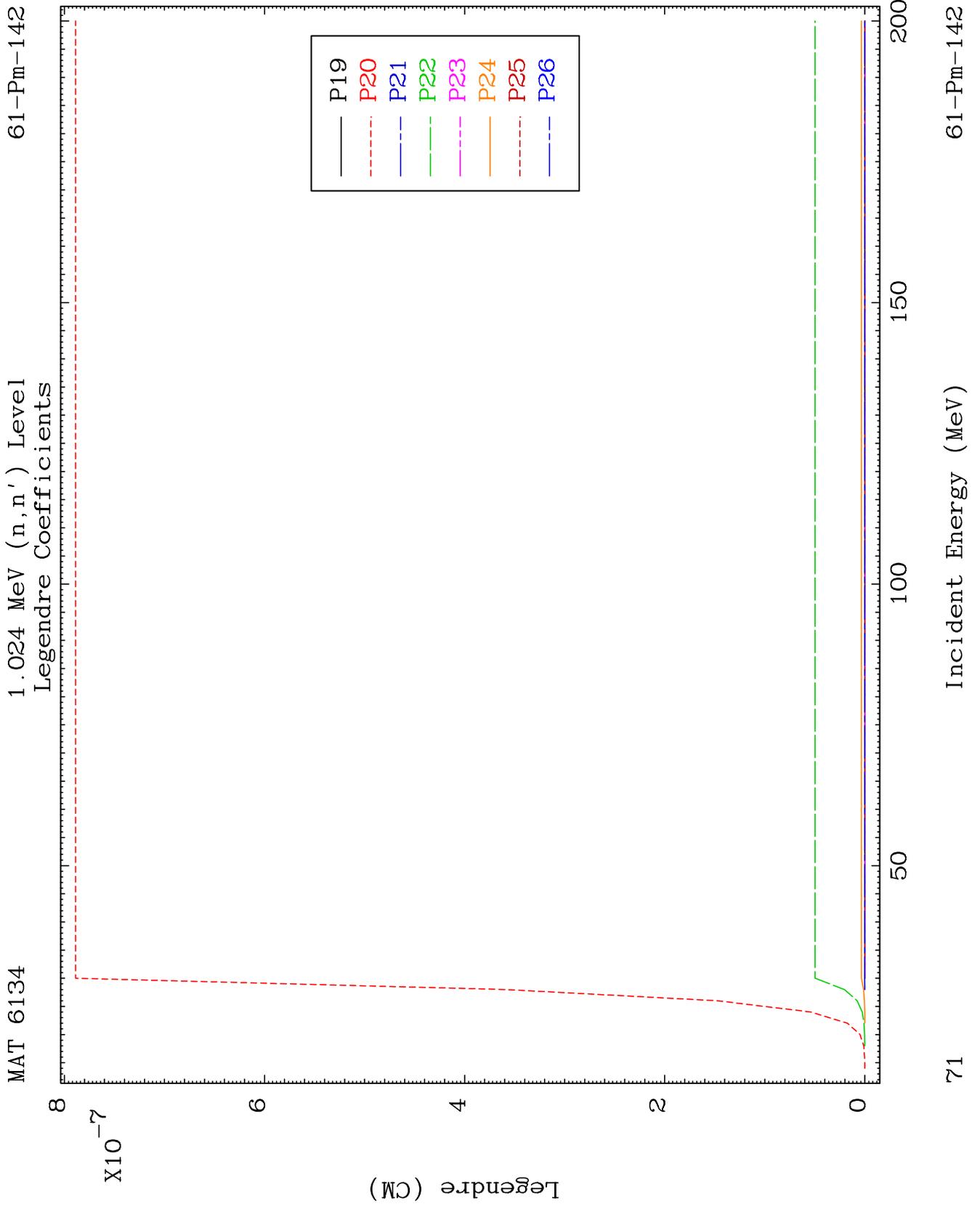
998.0 keV (n,n') Level
Legendre Coefficients

61-Pm-142





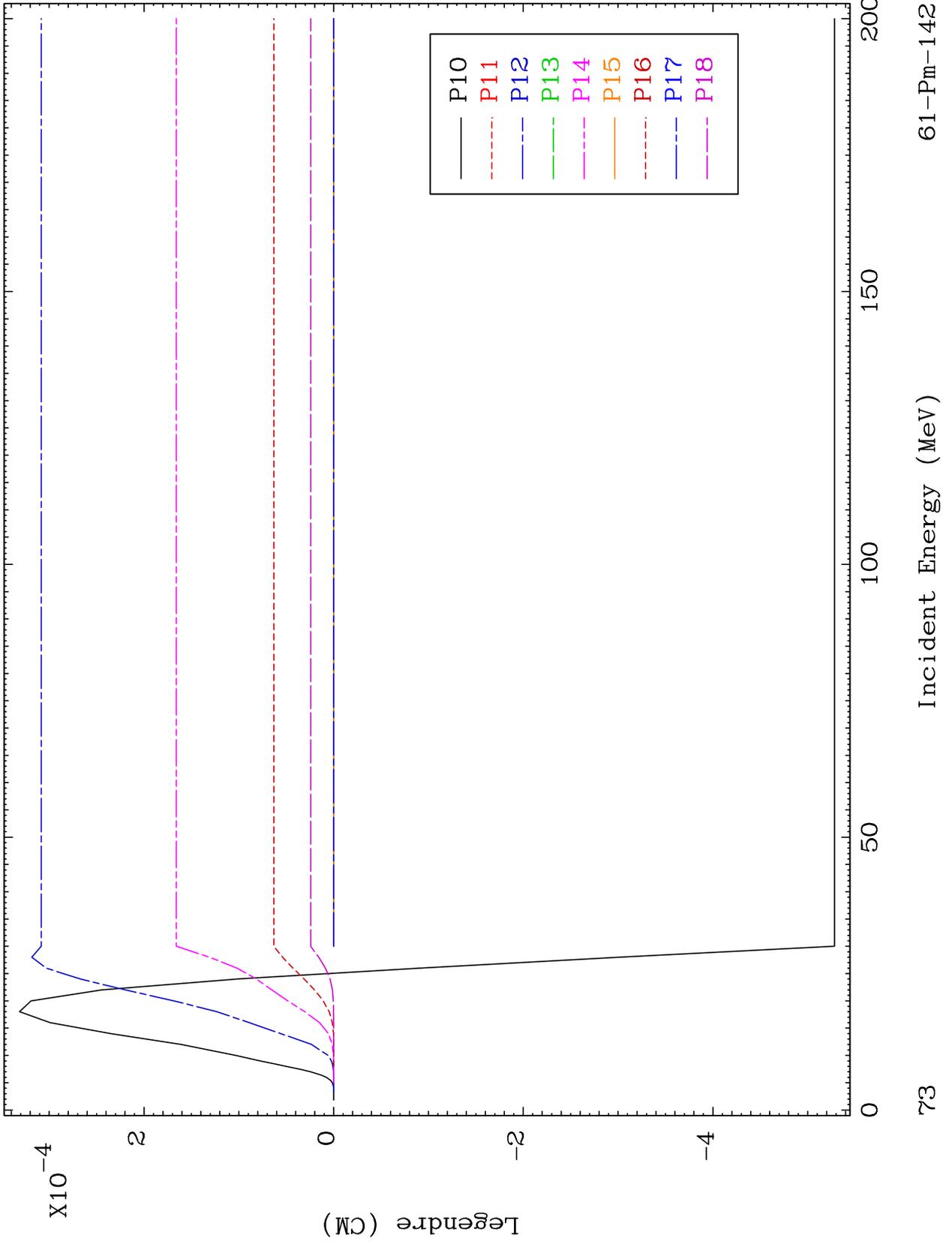




MAT 6134

1.077 MeV (n, n') Level
Legendre Coefficients

61-Pm-142



73

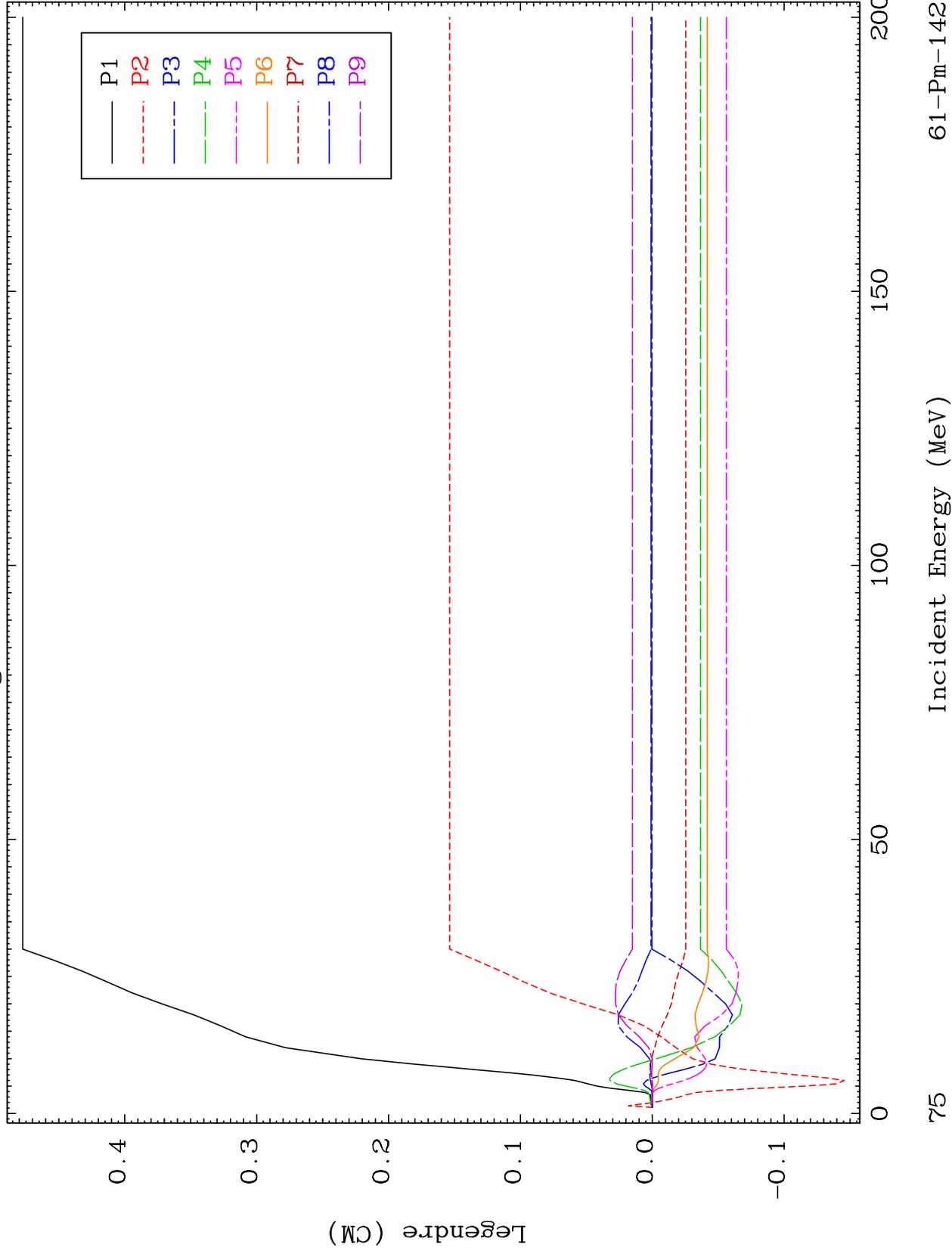
Incident Energy (MeV)

61-Pm-142

MAT 6134

1.078 MeV (n,n') Level
Legendre Coefficients

61-Pm-142



61-Pm-142

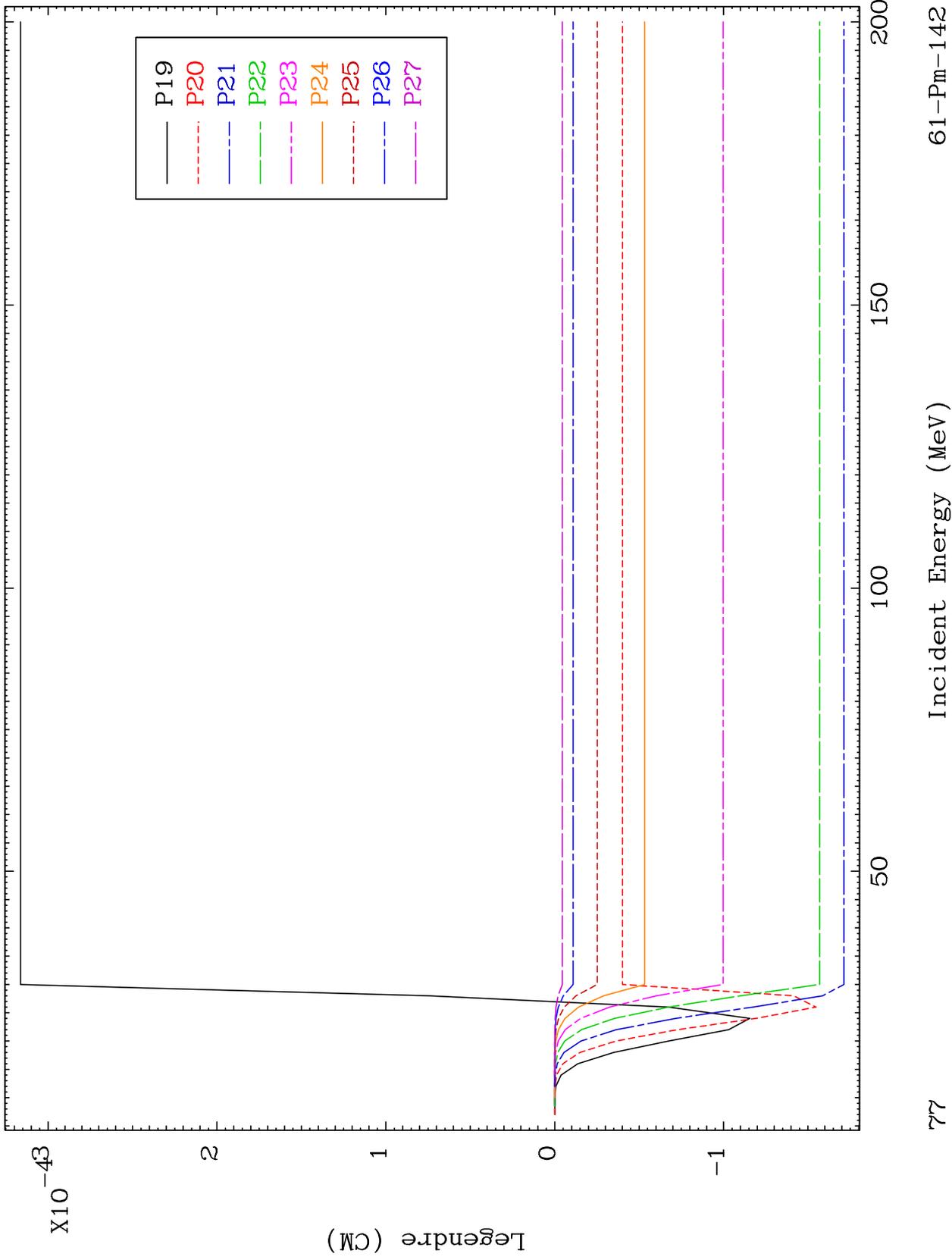
Incident Energy (MeV)

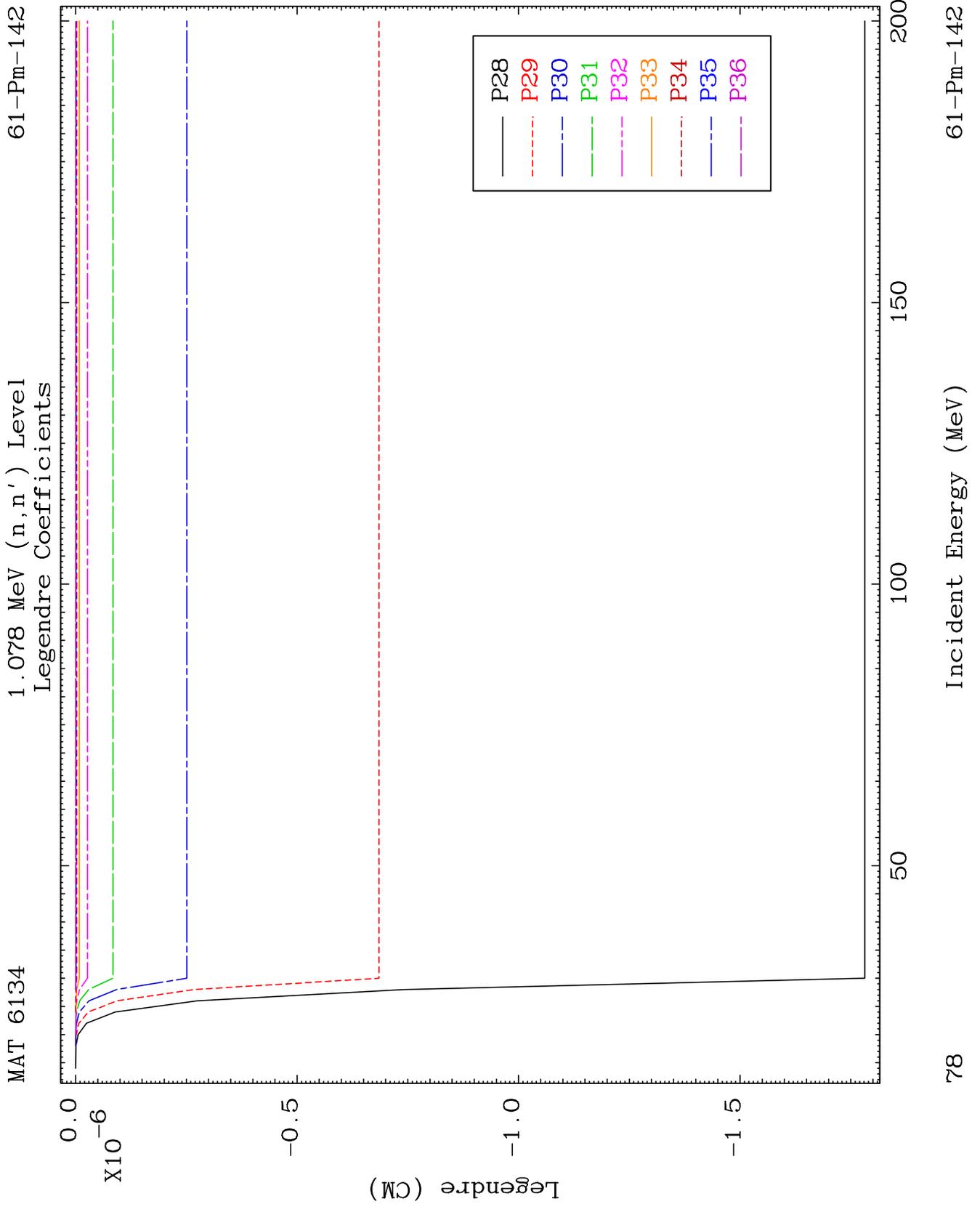
75

MAT 6134

1.078 MeV (n,n') Level
Legendre Coefficients

61-Pm-142

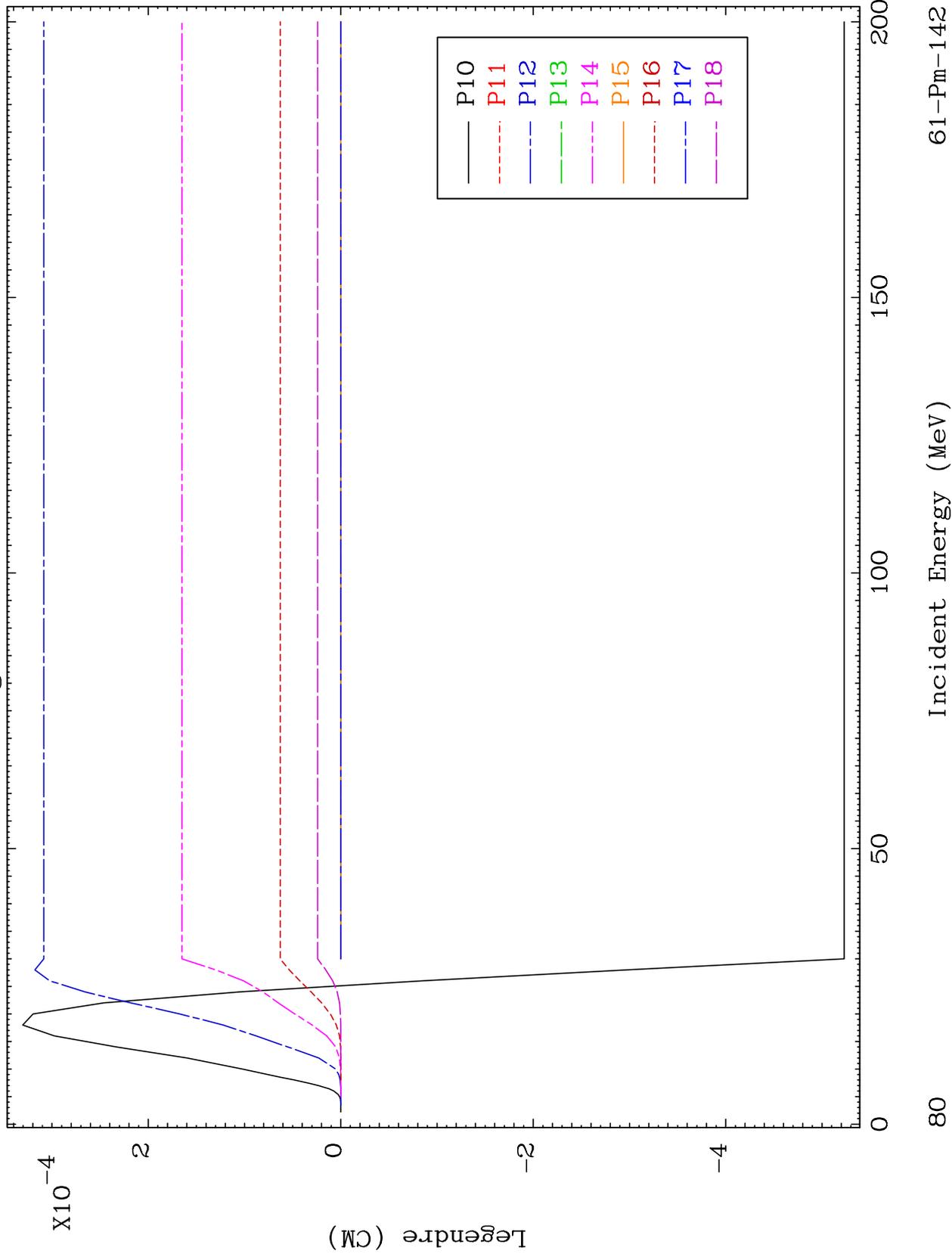




MAT 6134

1.164 MeV (n,n') Level
Legendre Coefficients

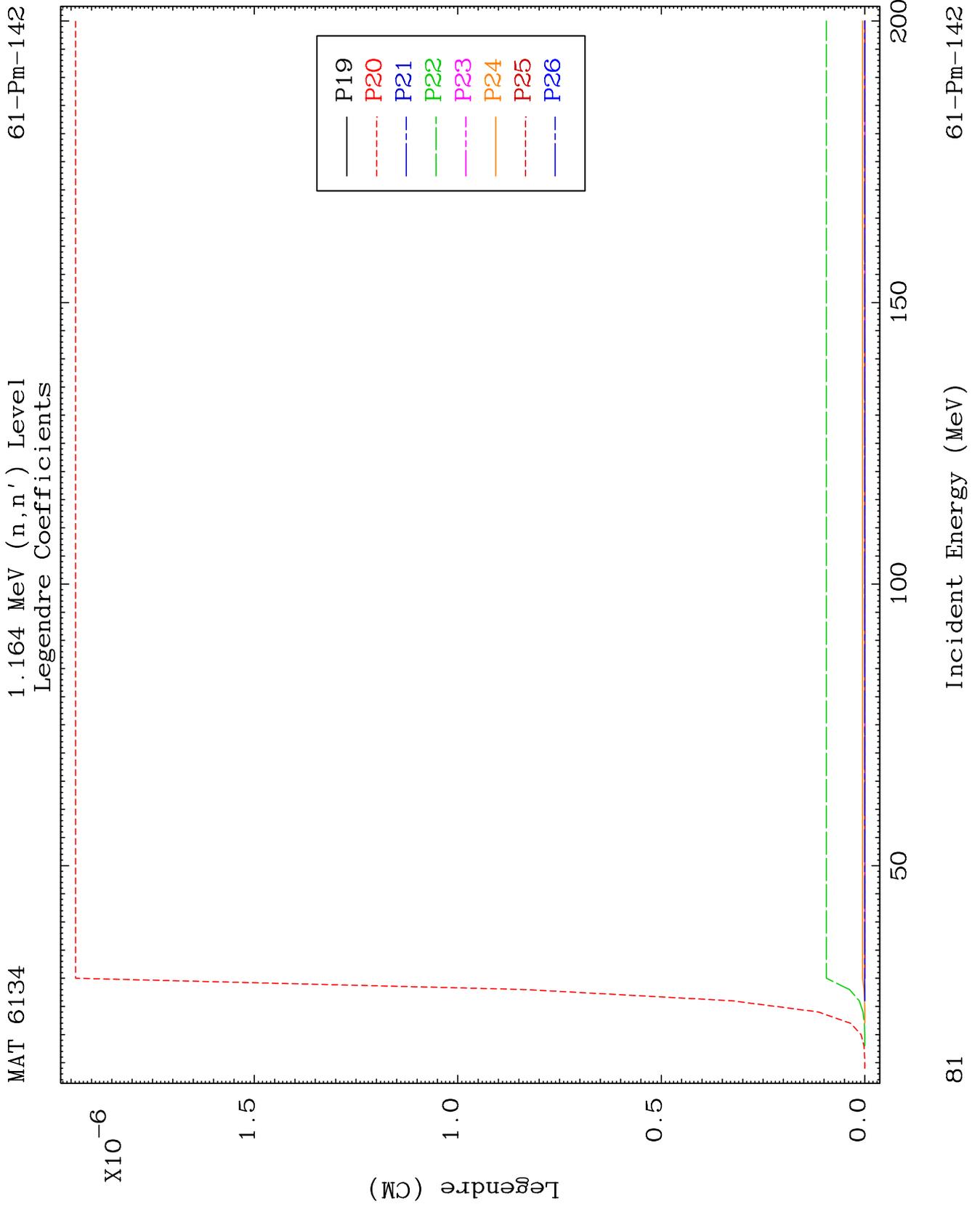
61-Pm-142



61-Pm-142

Incident Energy (MeV)

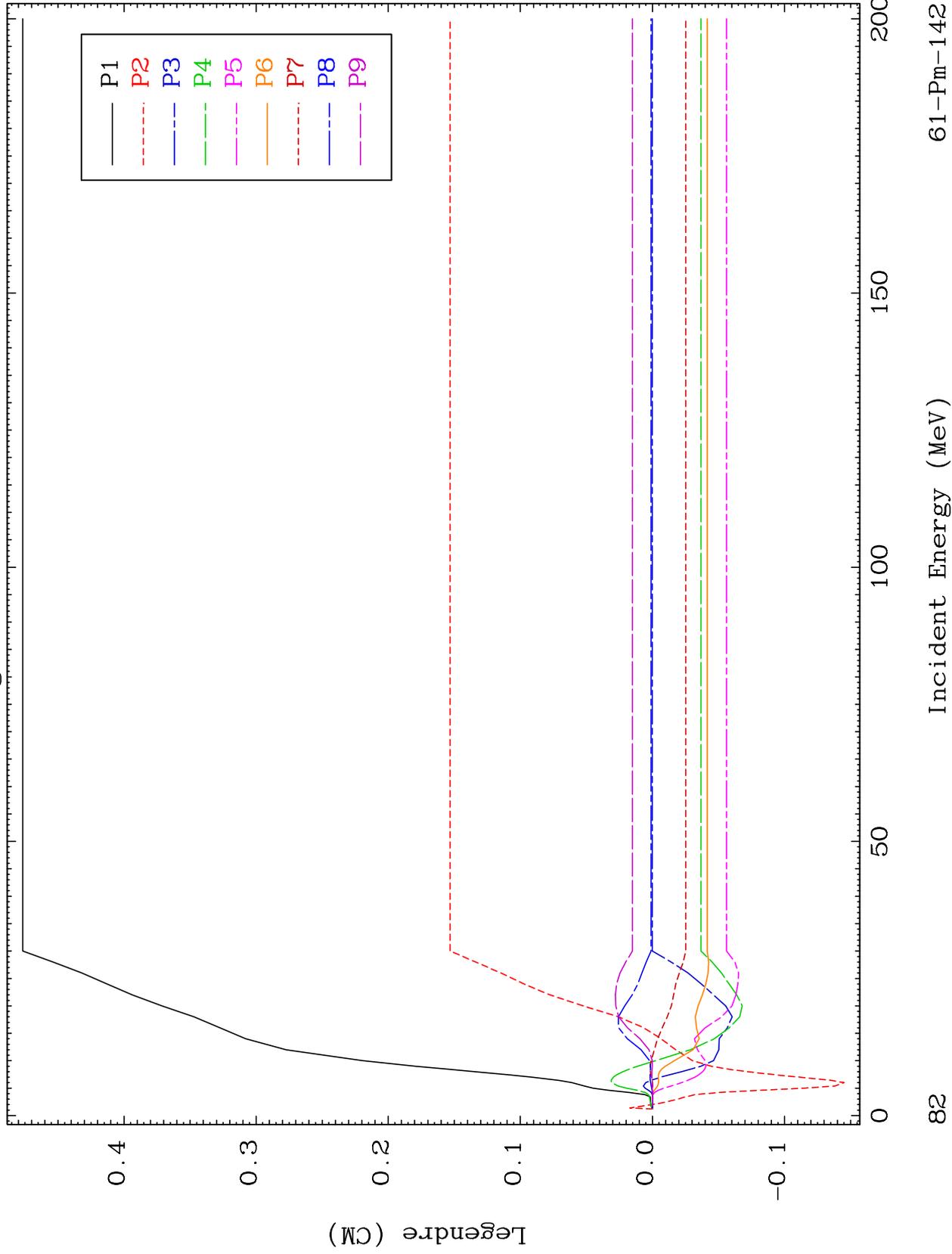
80



MAT 6134

1.185 MeV (n,n') Level
Legendre Coefficients

61-Pm-142



61-Pm-142

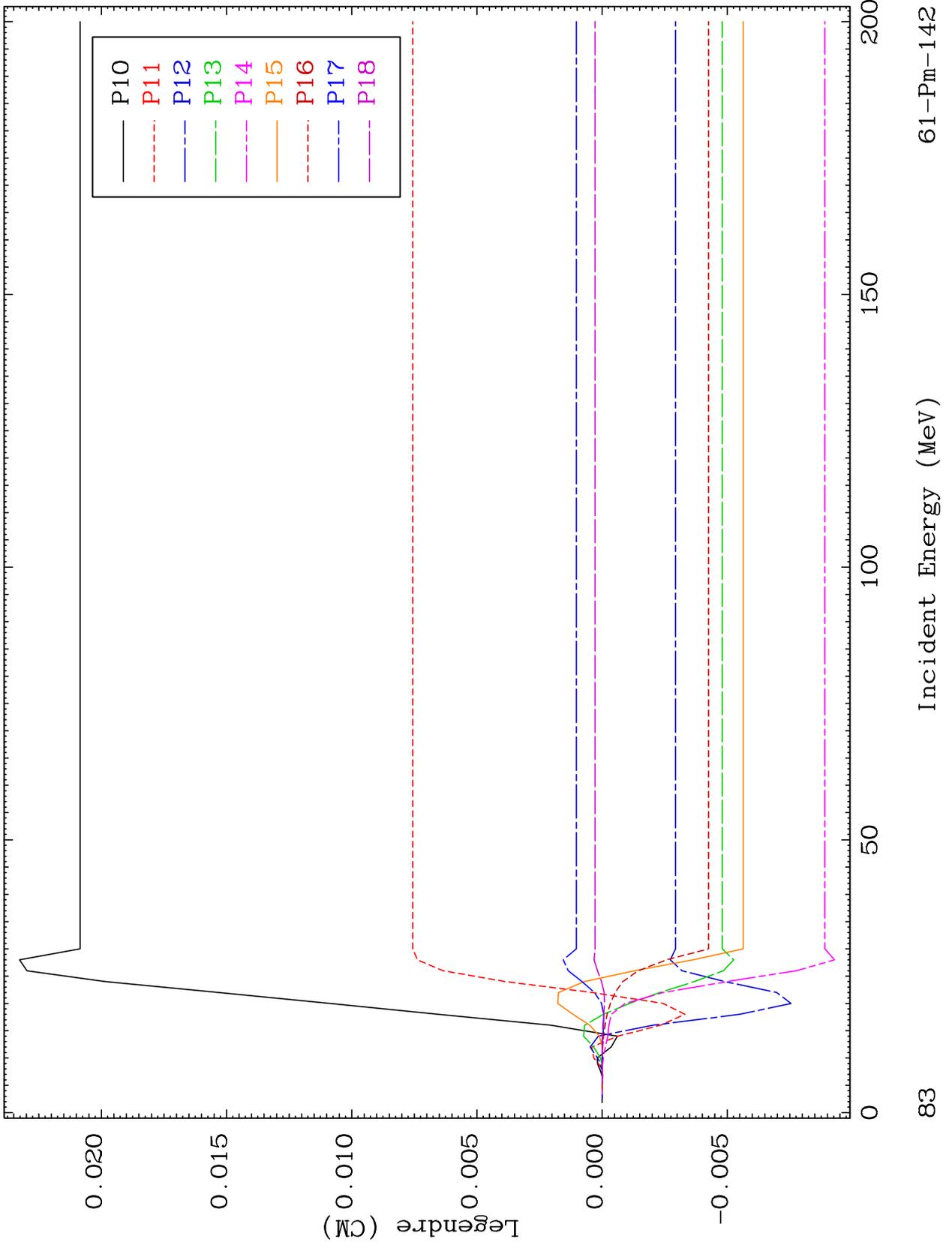
Incident Energy (MeV)

82

MAT 6134

1.185 MeV (n,n') Level
Legendre Coefficients

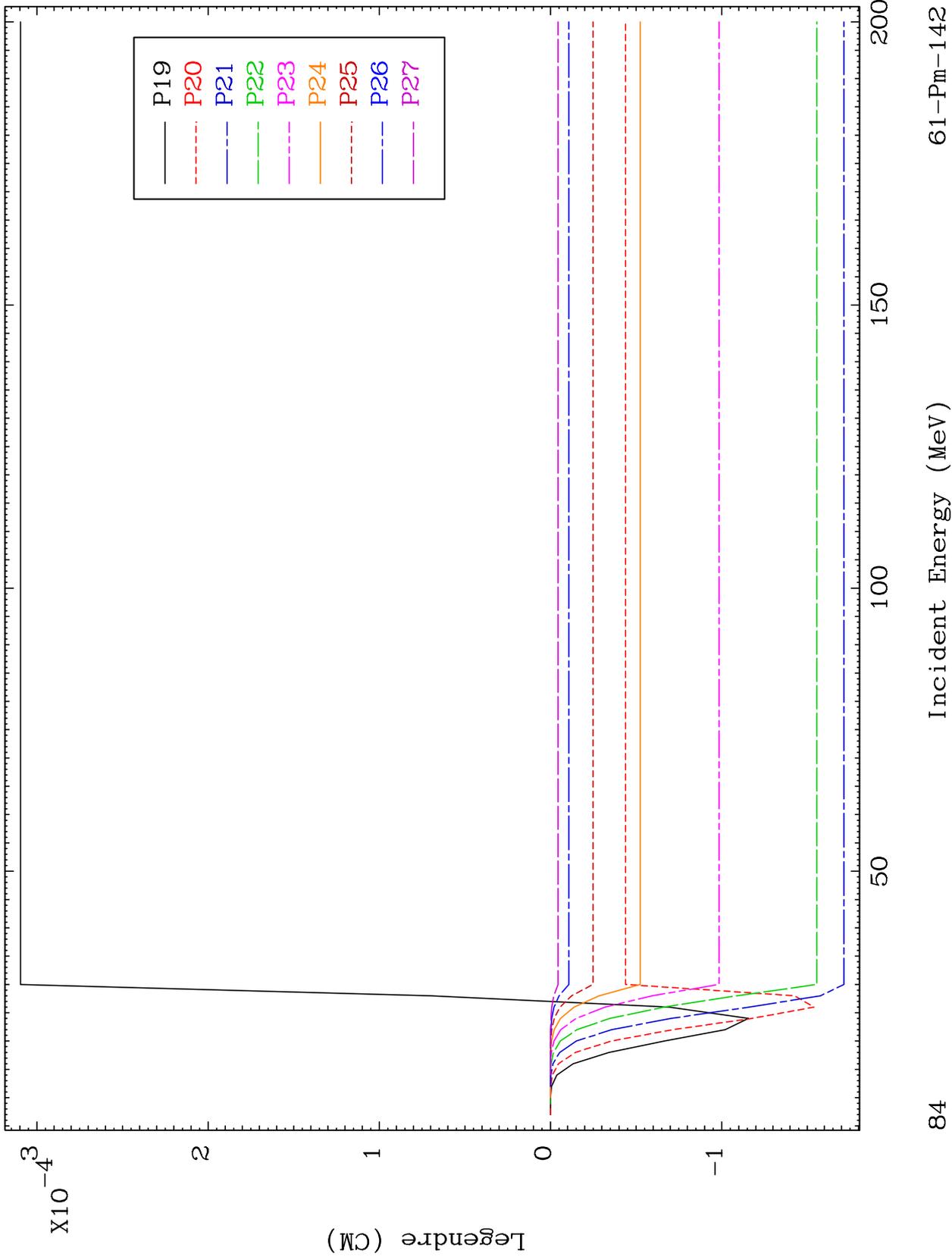
61-Pm-142

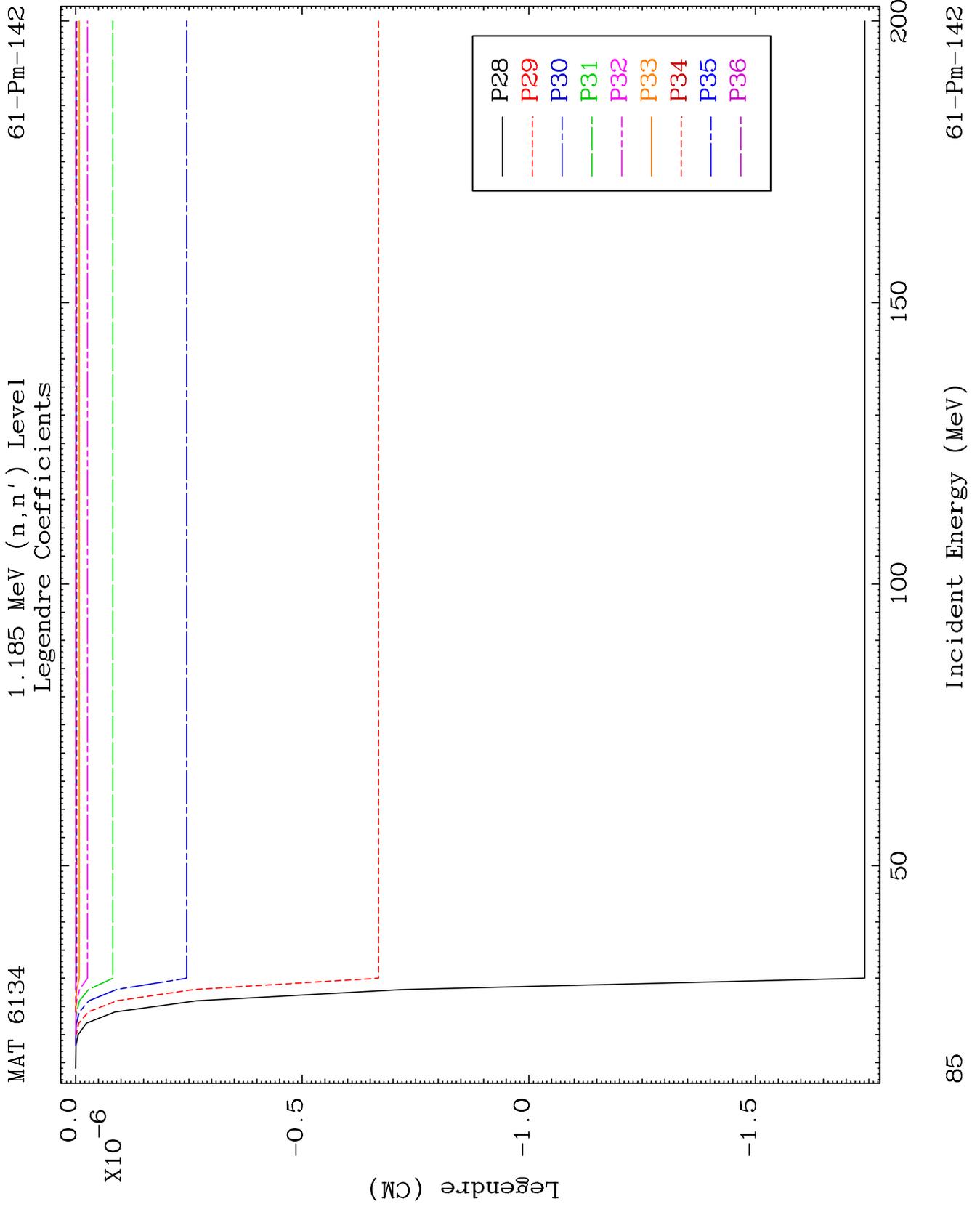


83

Incident Energy (MeV)

61-Pm-142

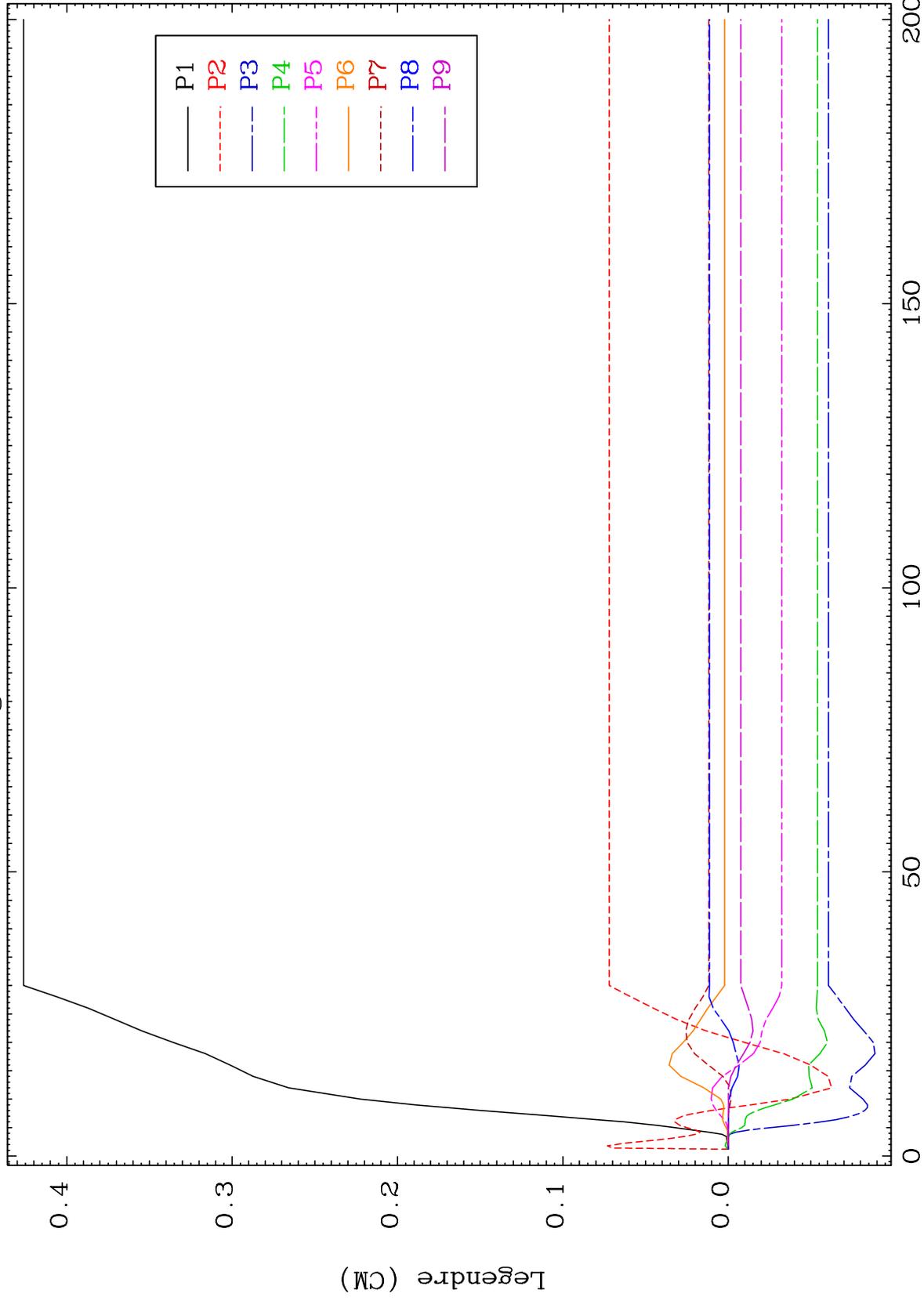




MAT 6134

1.191 MeV (n,n') Level
Legendre Coefficients

61-Pm-142



86

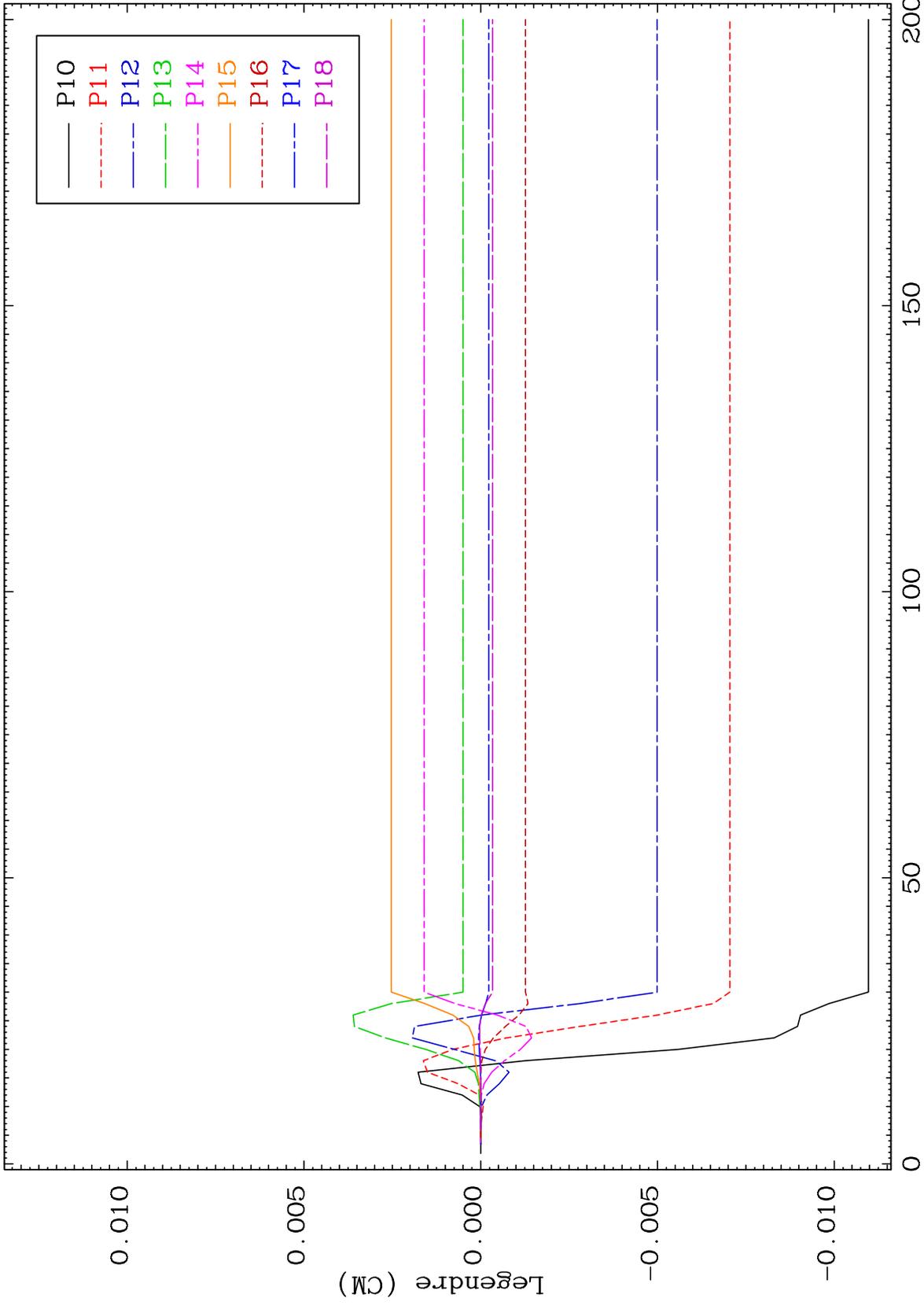
Incident Energy (MeV)

61-Pm-142

MAT 6134

1.191 MeV (n,n') Level
Legendre Coefficients

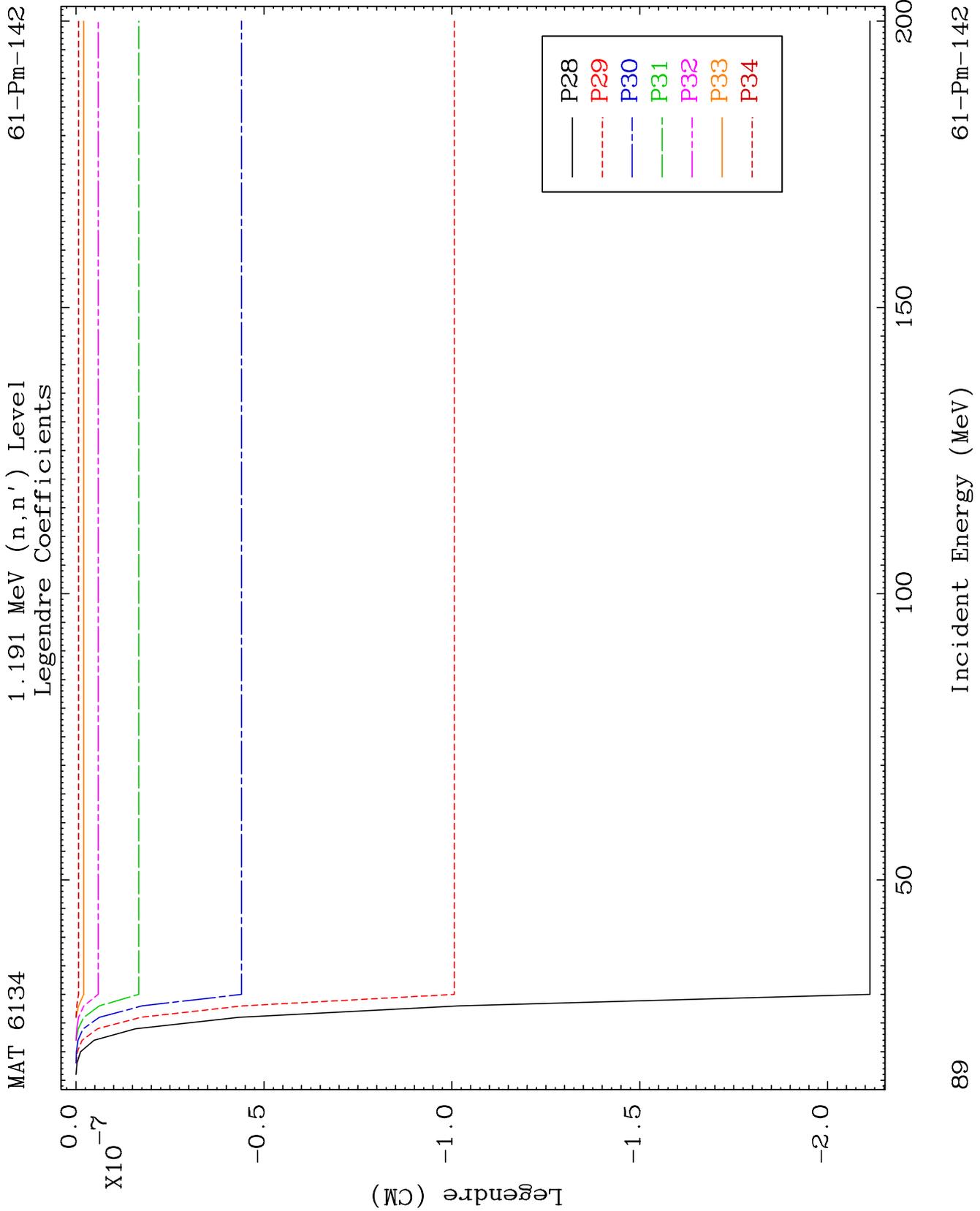
61-Pm-142

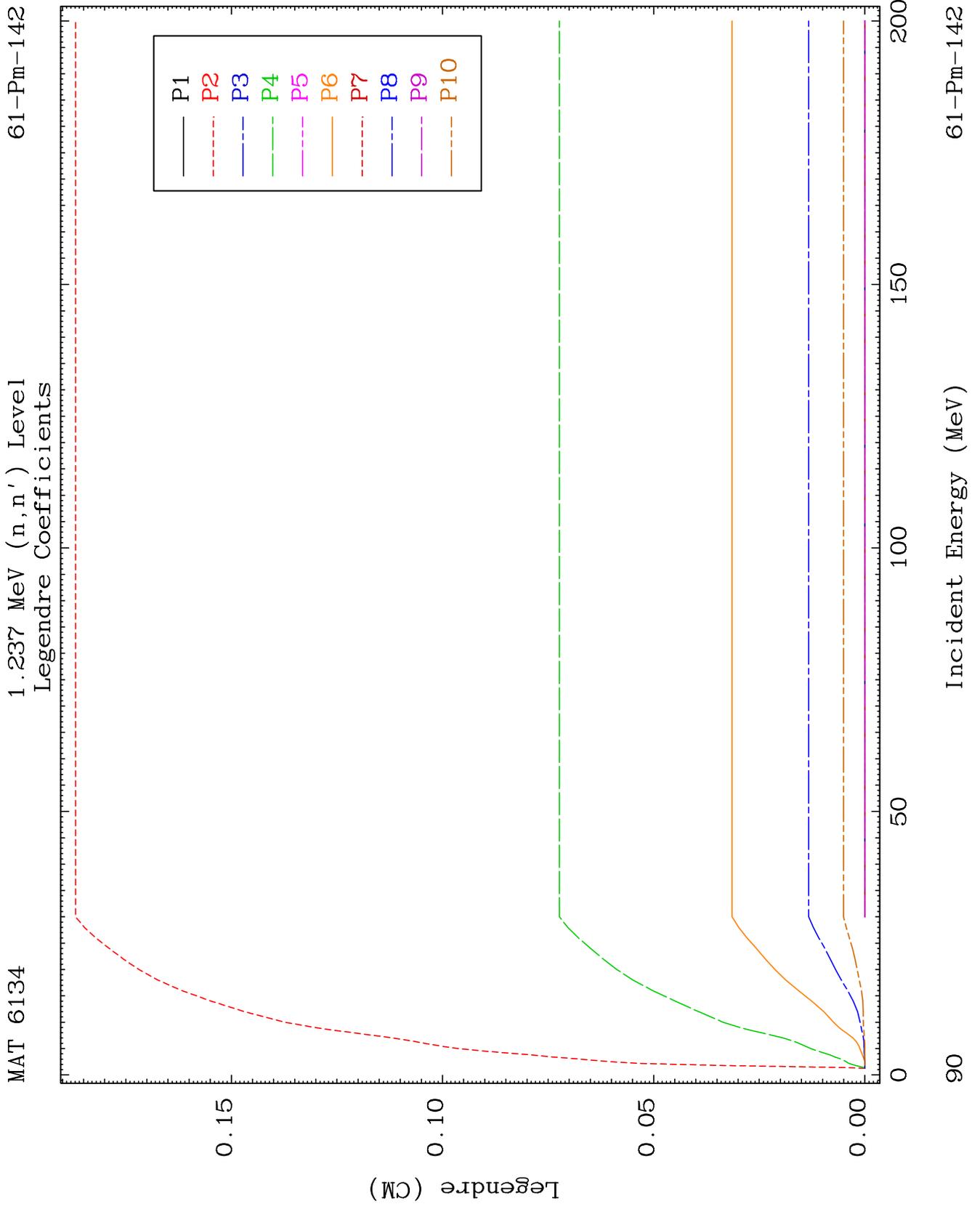


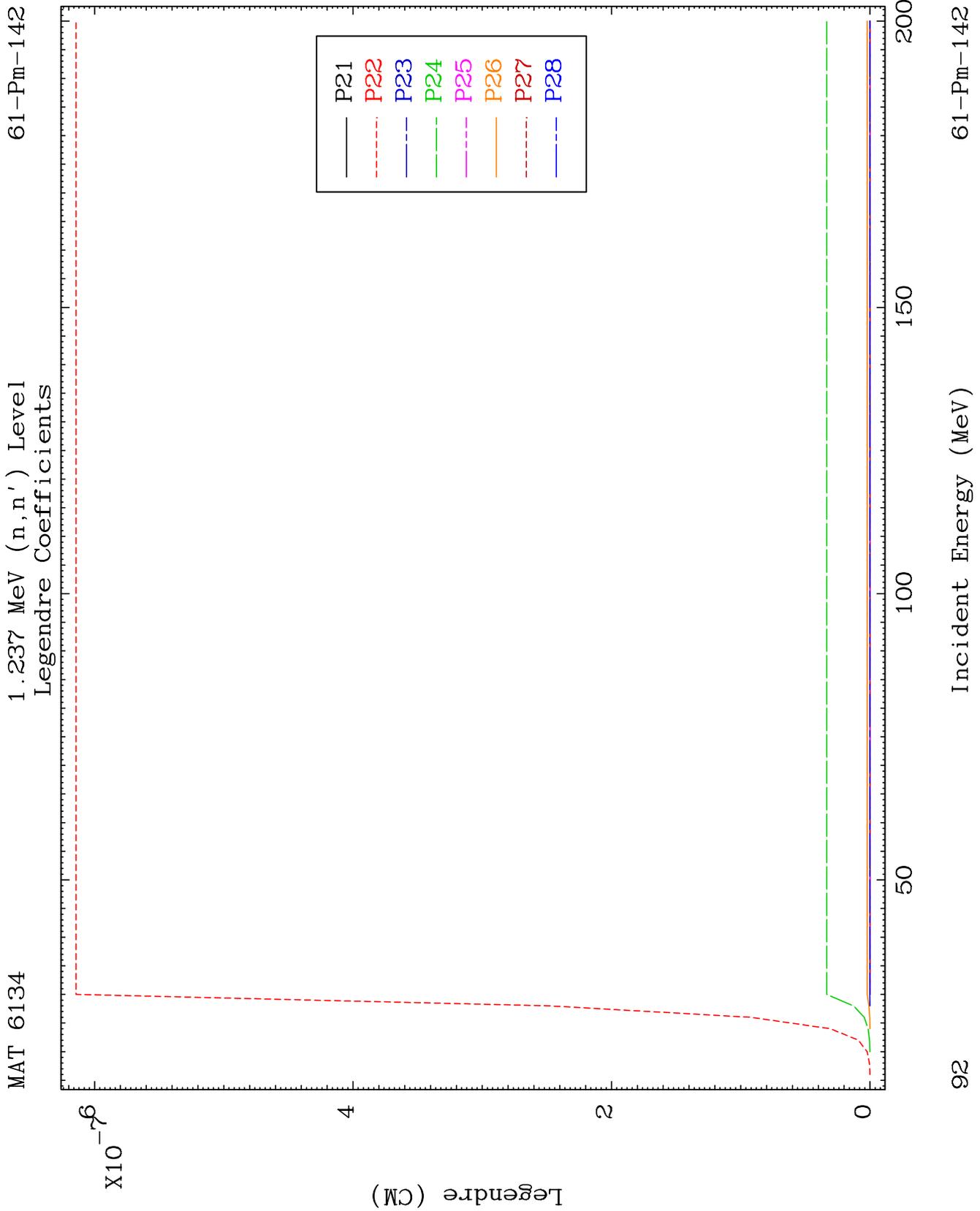
87

Incident Energy (MeV)

61-Pm-142



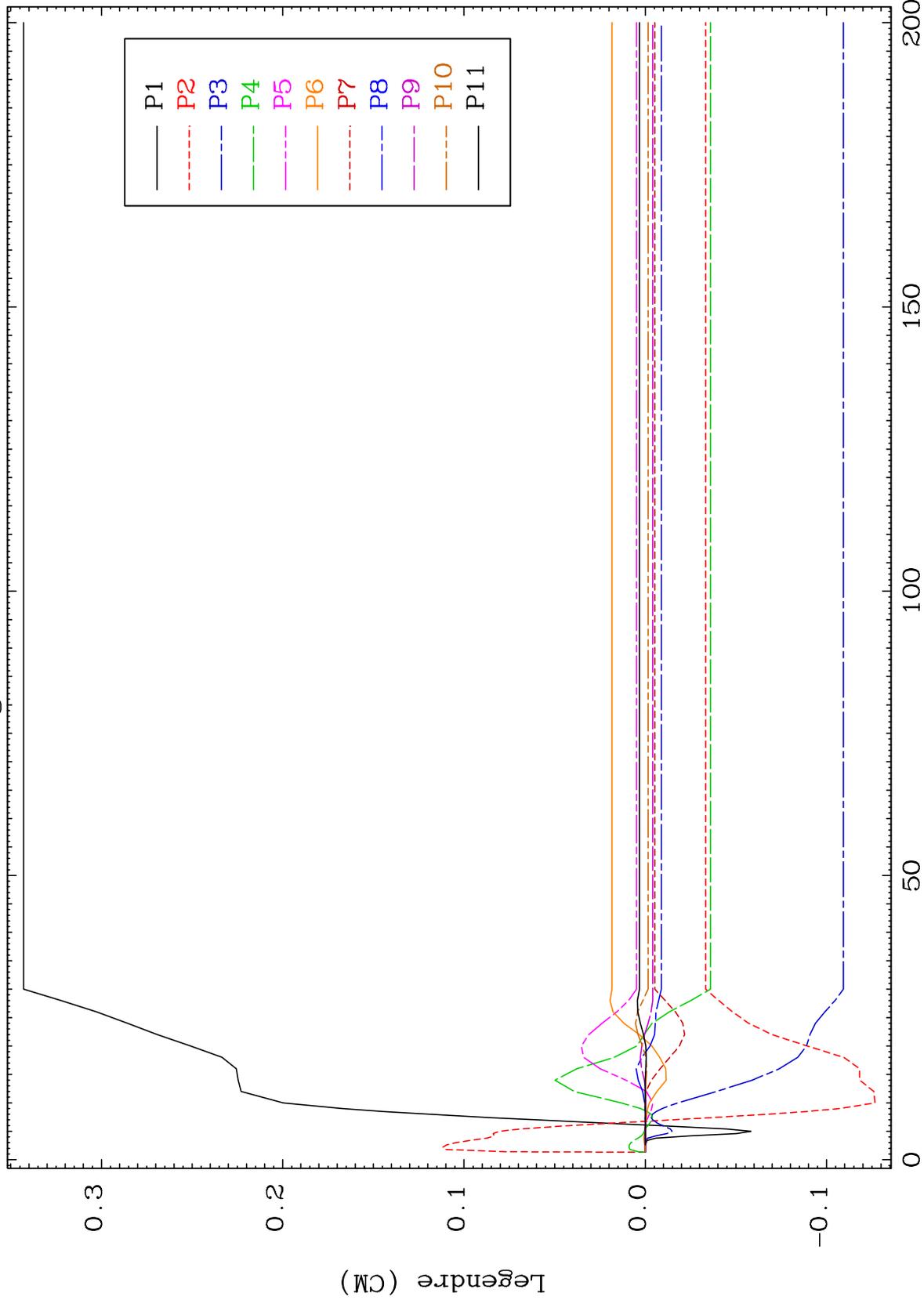




MAT 6134

1.310 MeV (n,n') Level
Legendre Coefficients

61-Pm-142



93

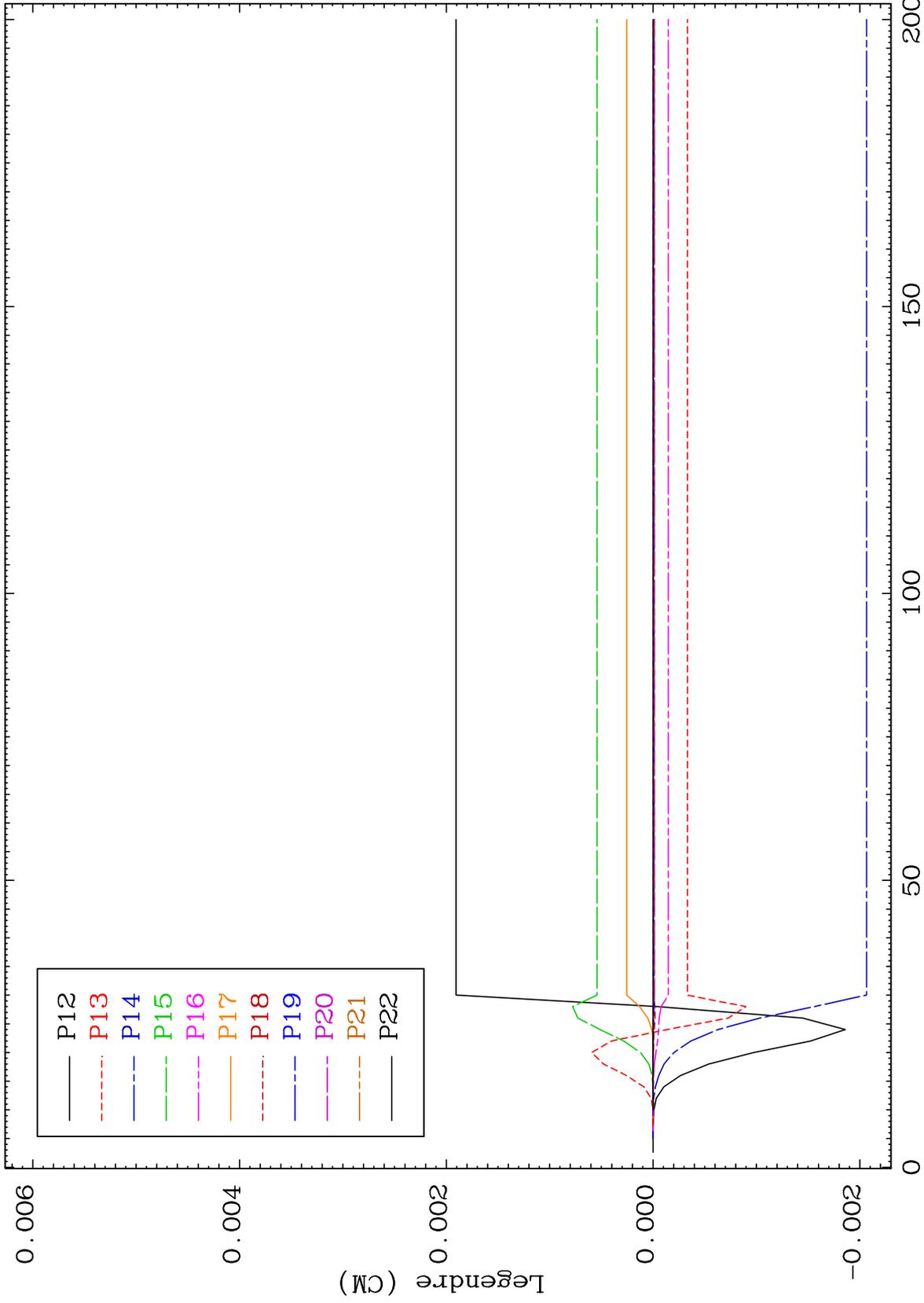
Incident Energy (MeV)

61-Pm-142

MAT 6134

1.310 MeV (n,n') Level
Legendre Coefficients

61-Pm-142



94

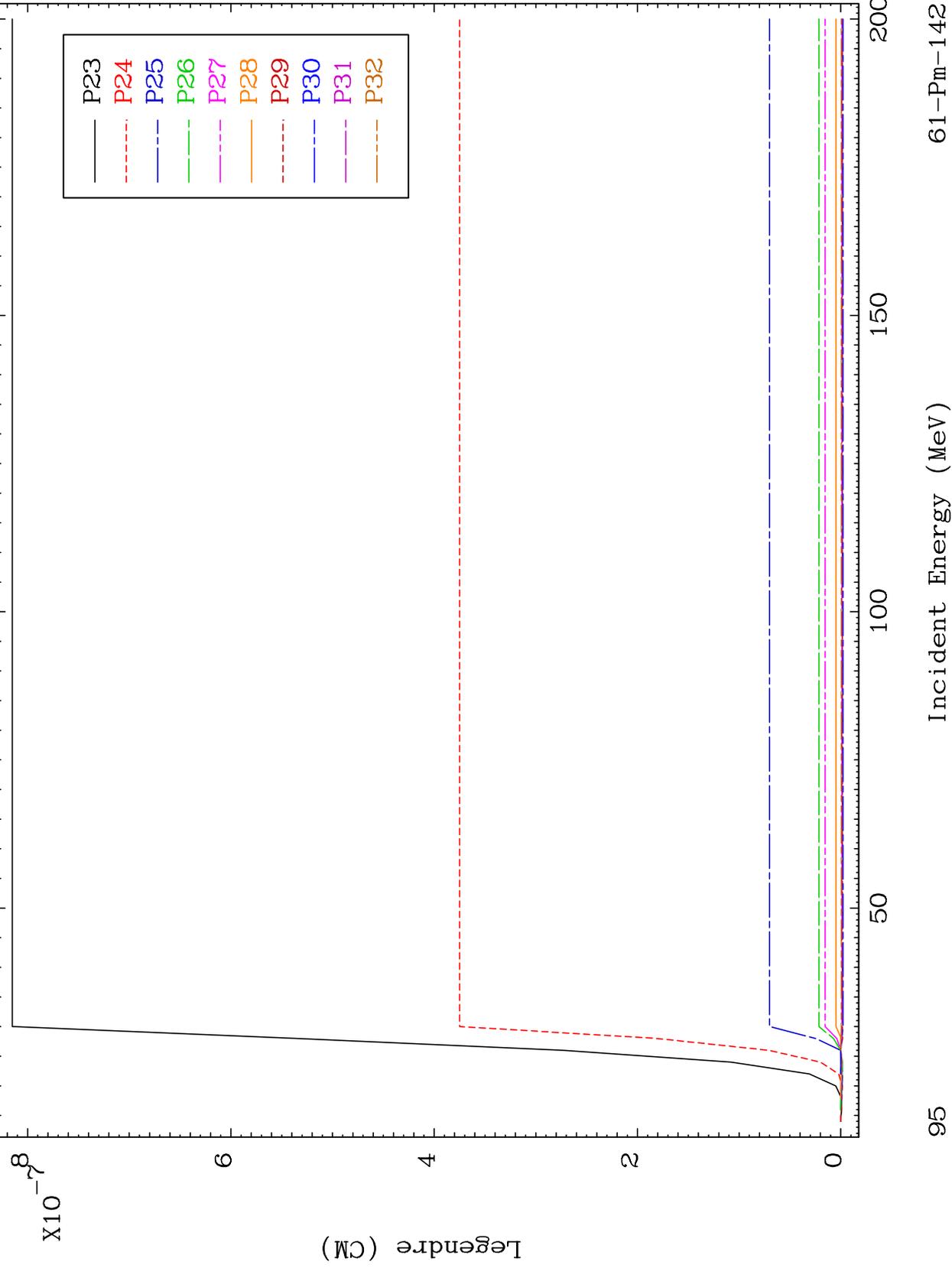
Incident Energy (MeV)

61-Pm-142

MAT 6134

1.310 MeV (n,n') Level
Legendre Coefficients

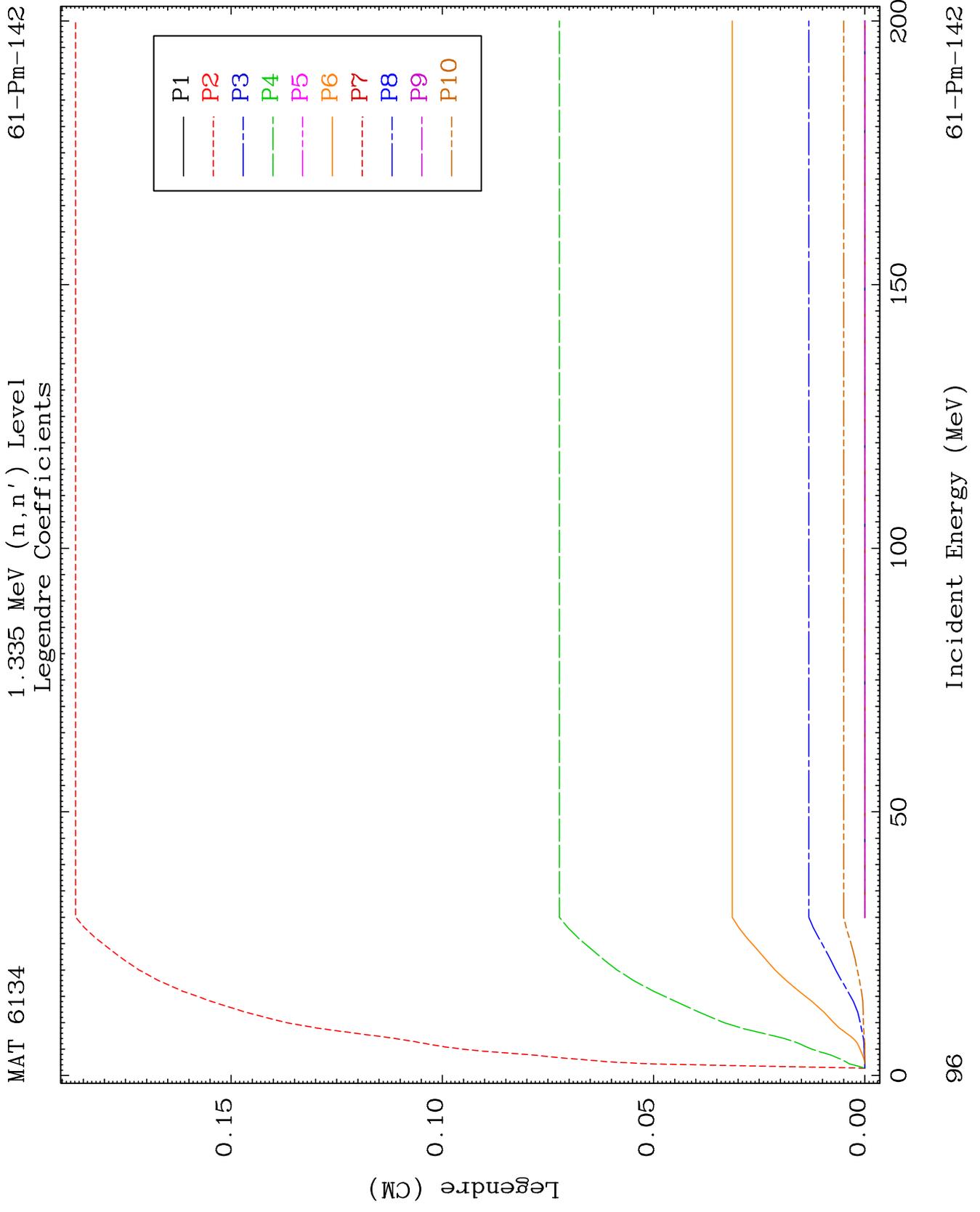
61-Pm-142

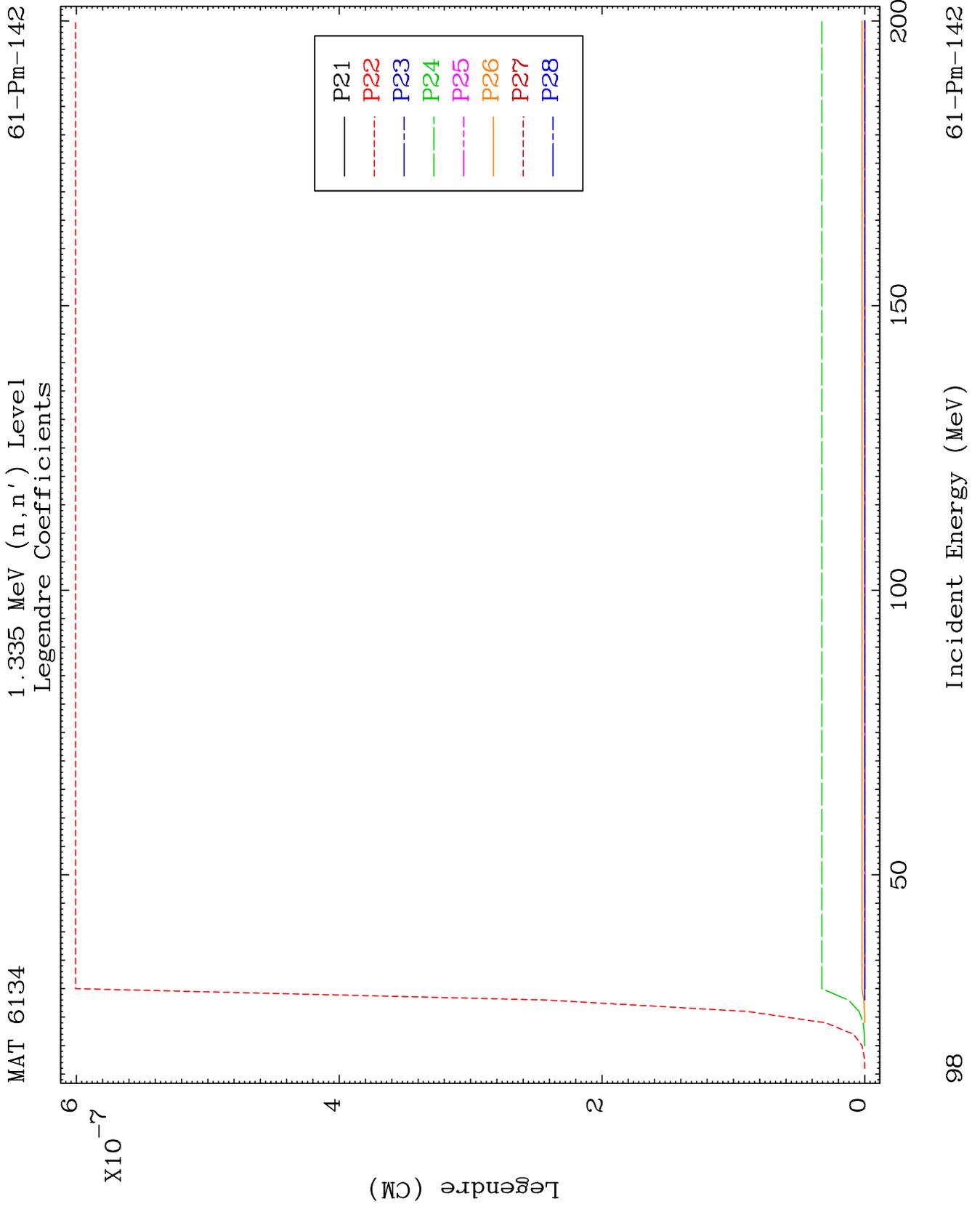


95

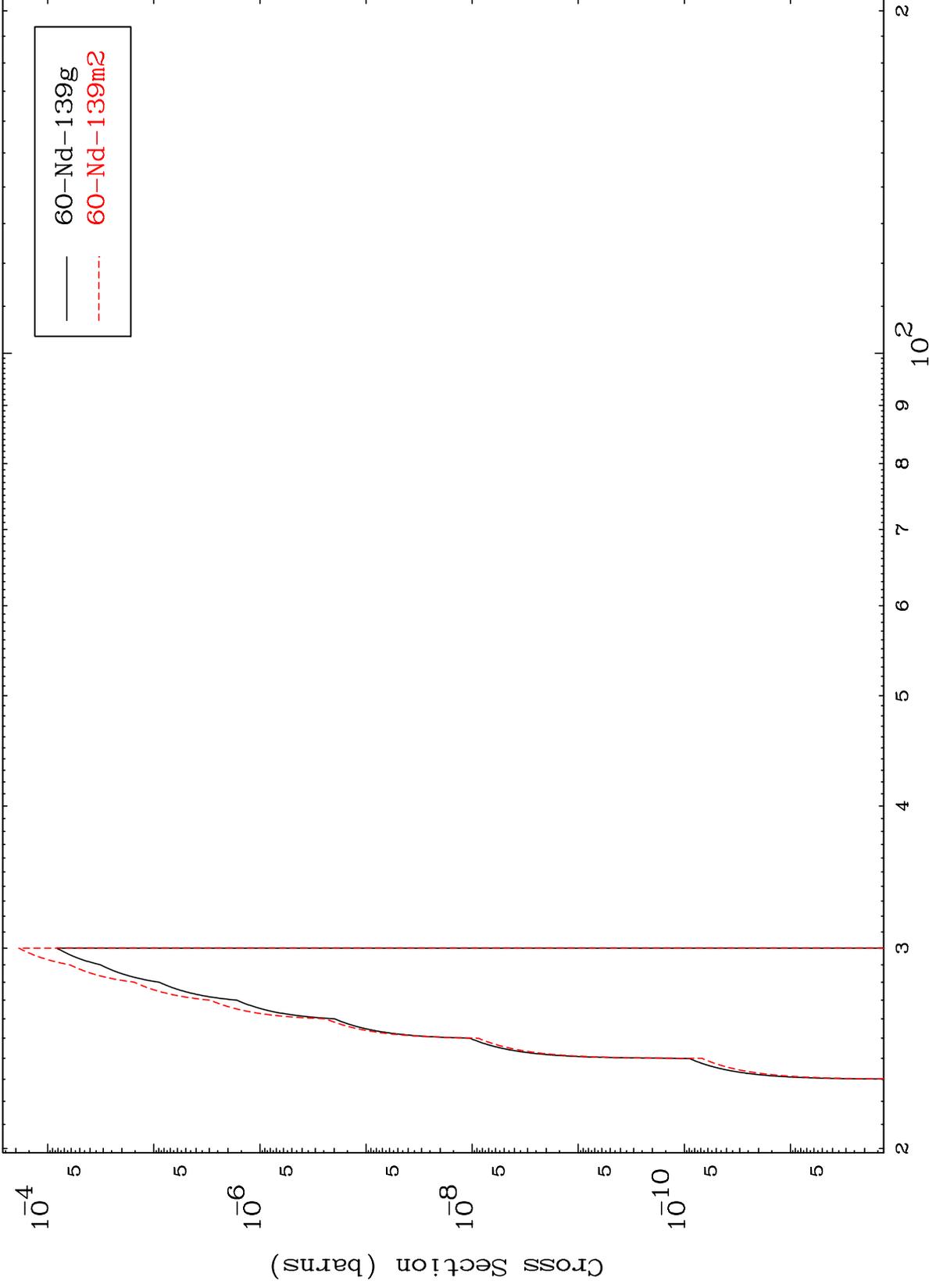
Incident Energy (MeV)

61-Pm-142





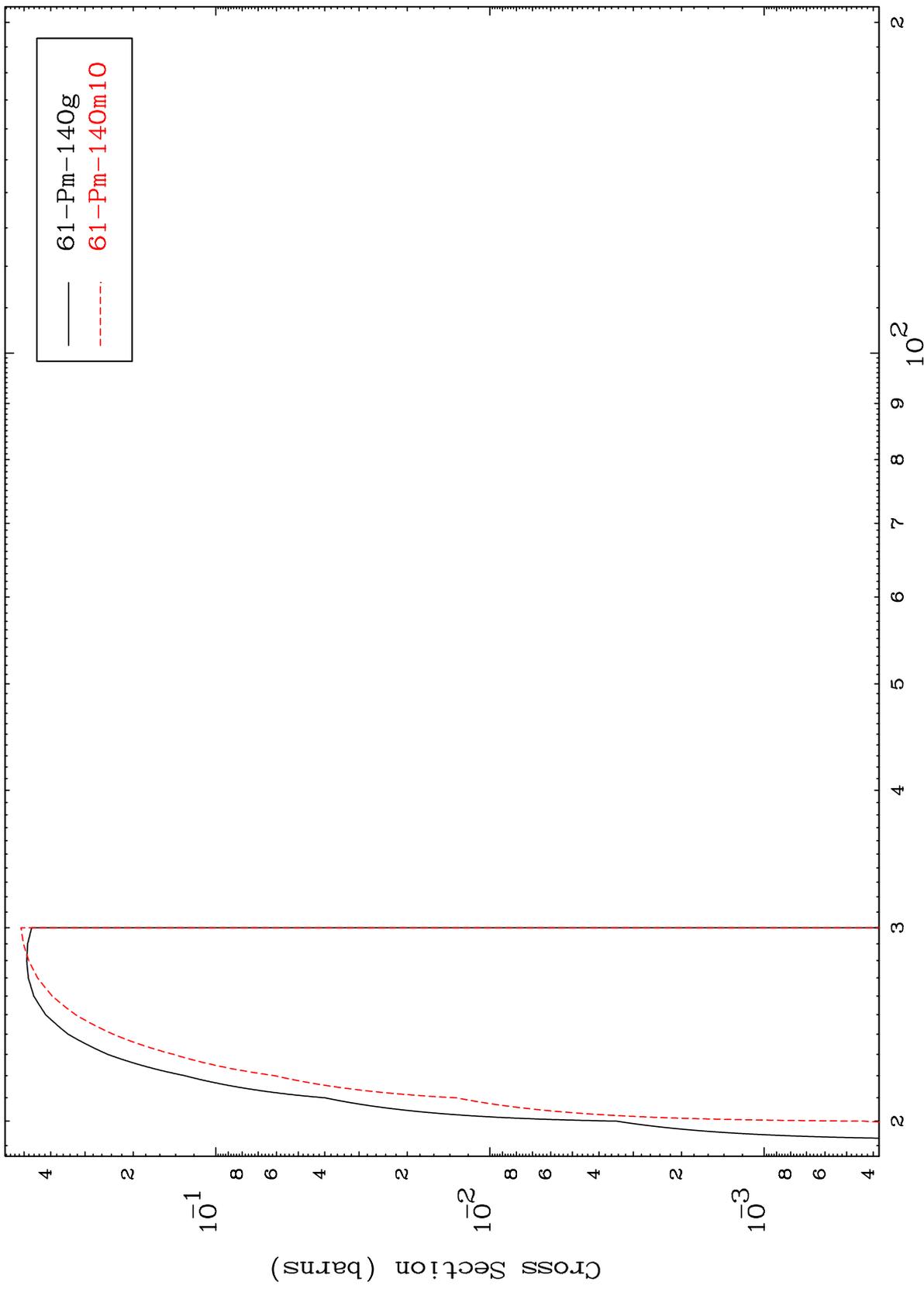
Radionuclide Production Cross Section



MAT 6134

61-Pm-142

(n,3n)
Radionuclide Production Cross Section



61-Pm-142

Incident Energy (MeV)

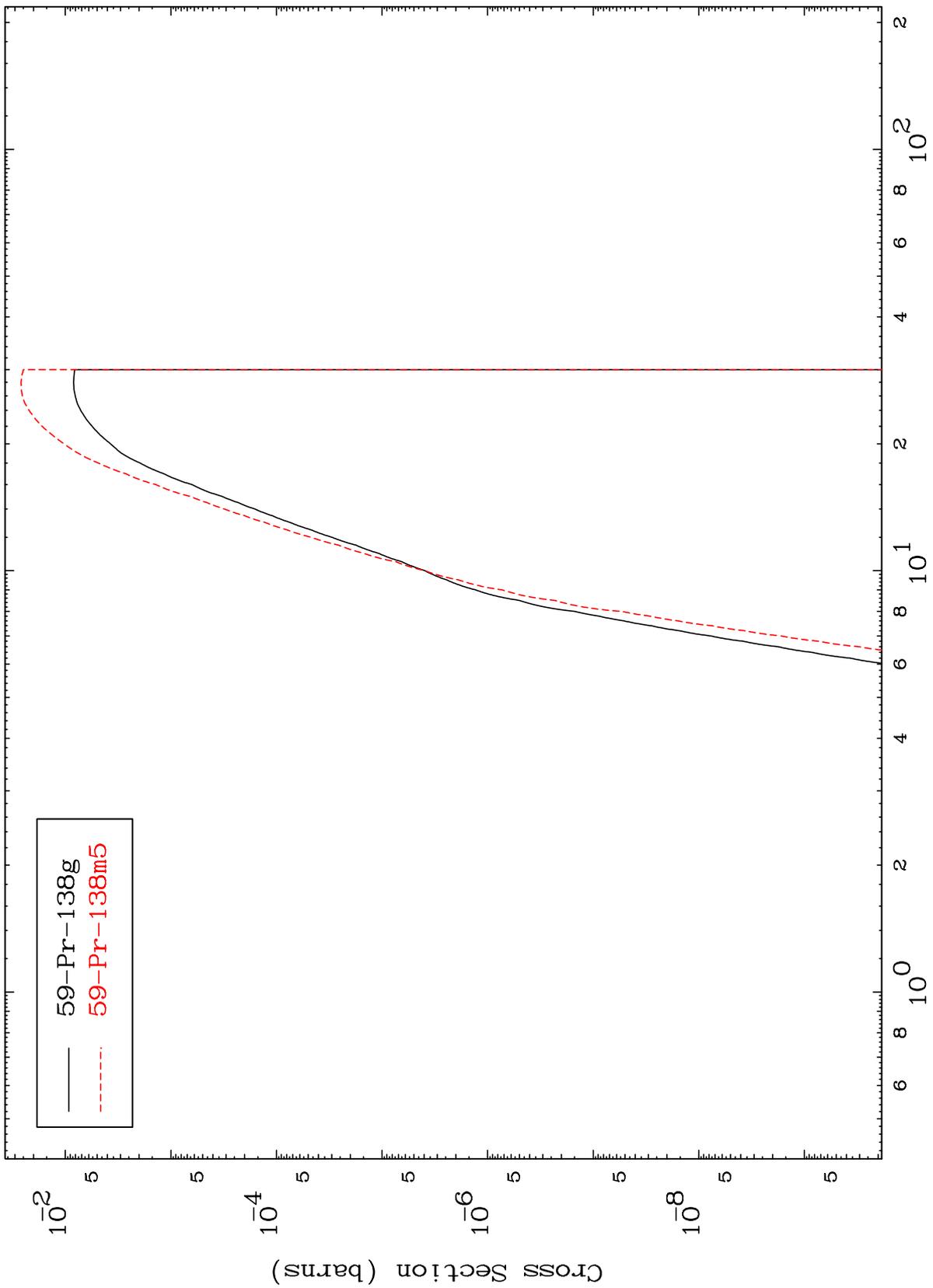
100

MAT 6134

(n,n') α

61-Pm-142

Radionuclide Production Cross Section



Legend:
— 59-Pr-138g
- - - 59-Pr-138m5

101

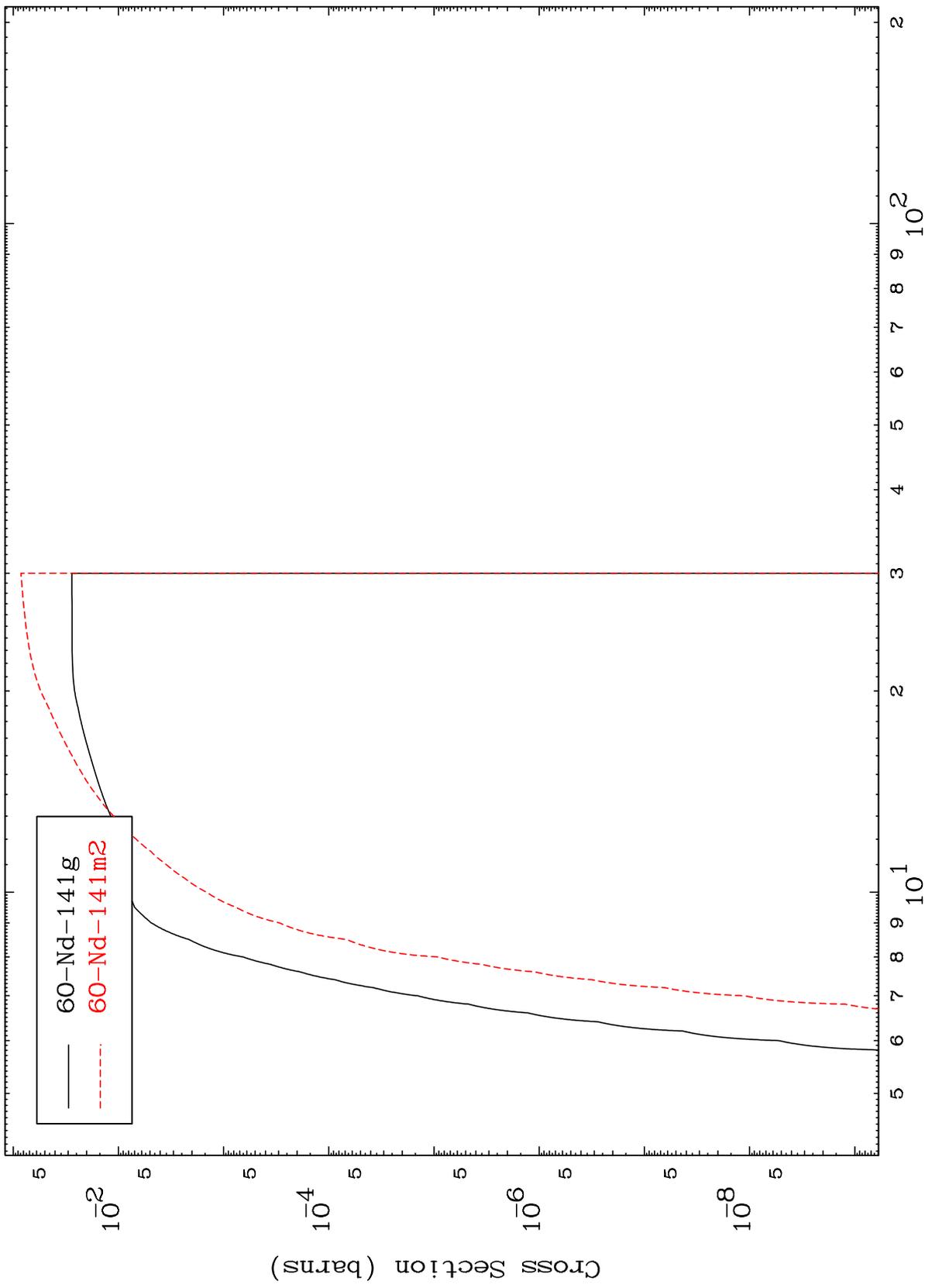
Incident Energy (MeV)

61-Pm-142

MAT 6134

61-Pm-142

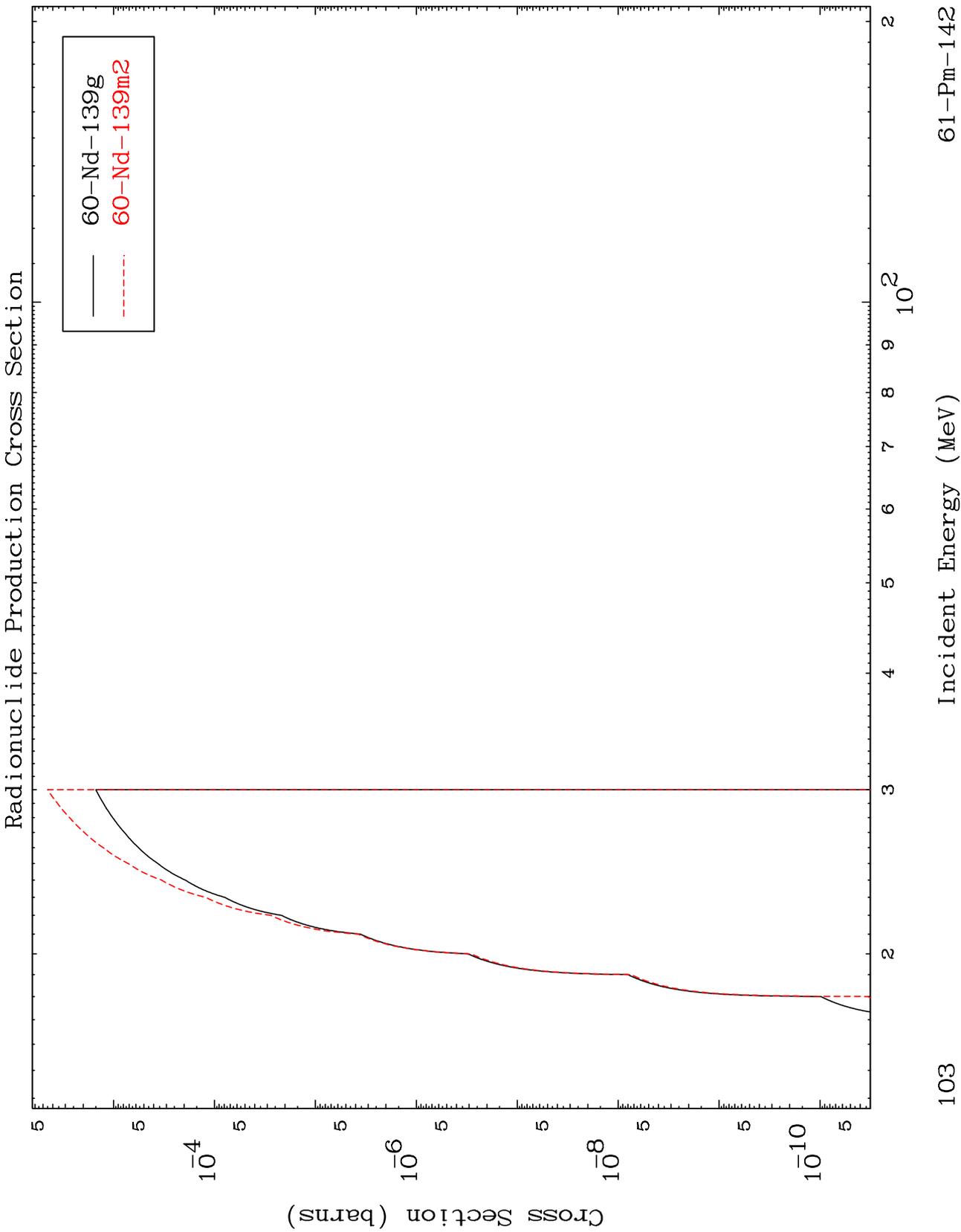
(n,n') p
Radionuclide Production Cross Section



102

Incident Energy (MeV)

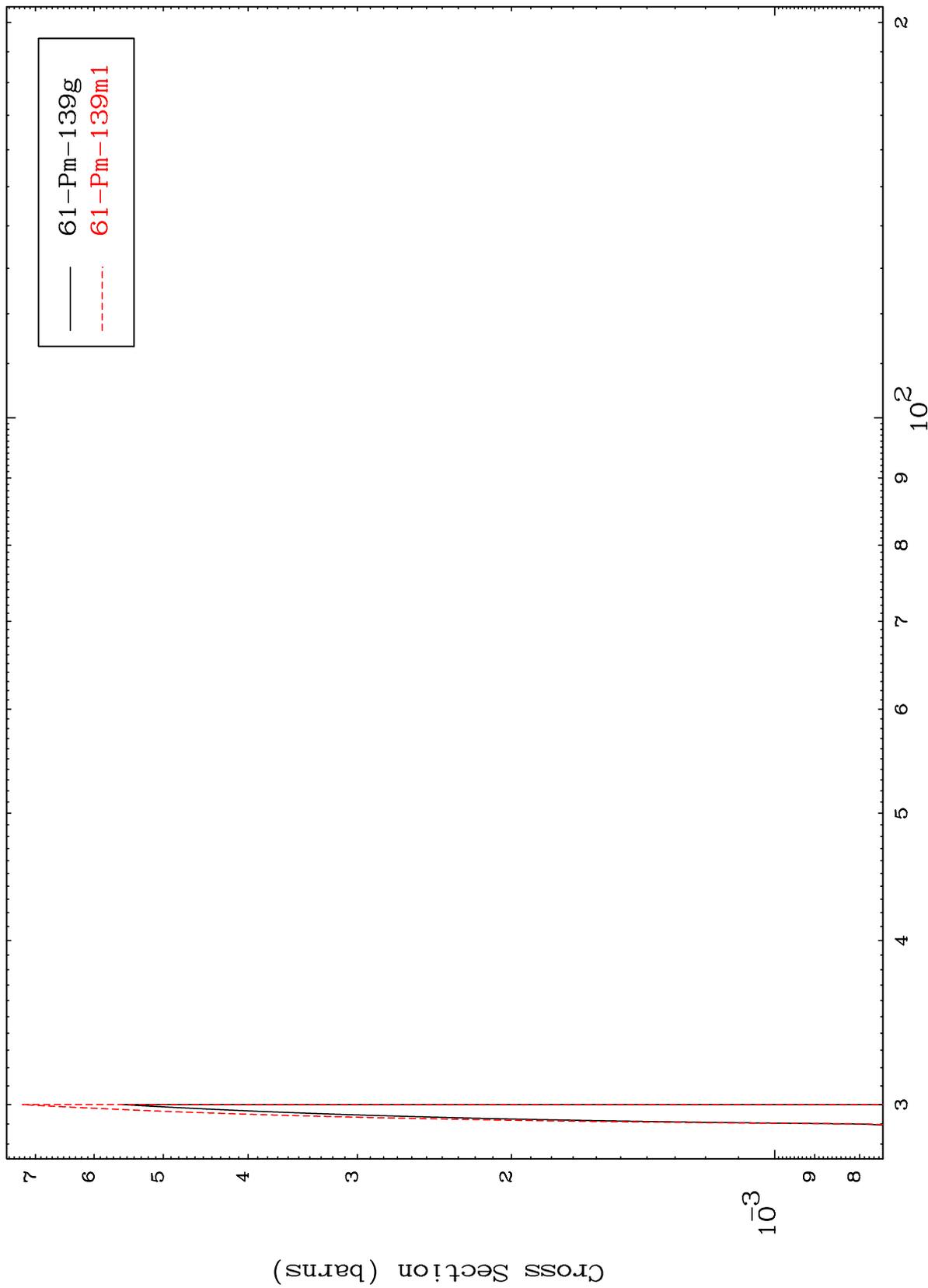
61-Pm-142



MAT 6134

61-Pm-142

(n,4n)
Radionuclide Production Cross Section



61-Pm-142

Incident Energy (MeV)

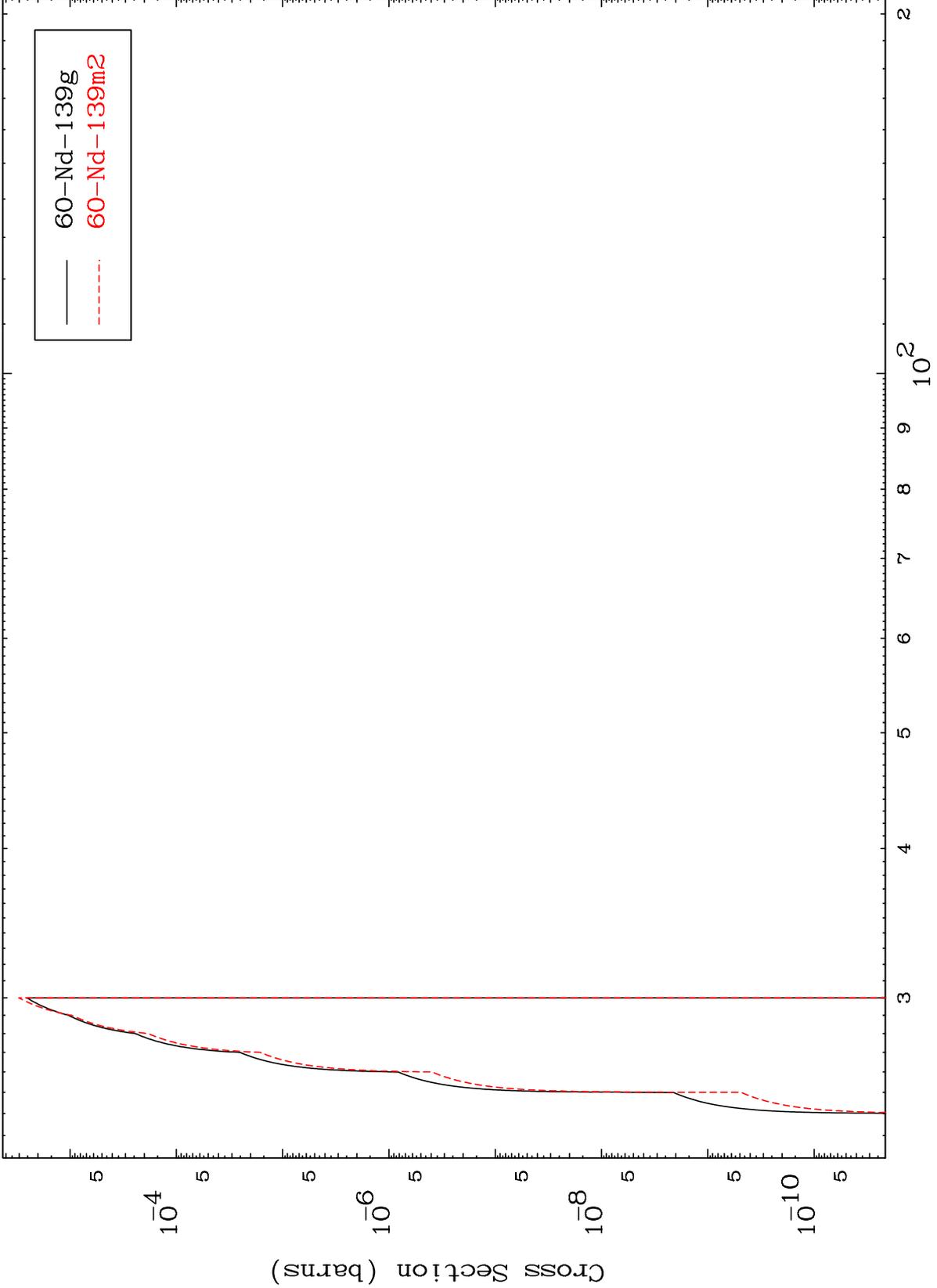
104

MAT 6134

(n,3n) p

61-Pm-142

Radionuclide Production Cross Section



105

Incident Energy (MeV)

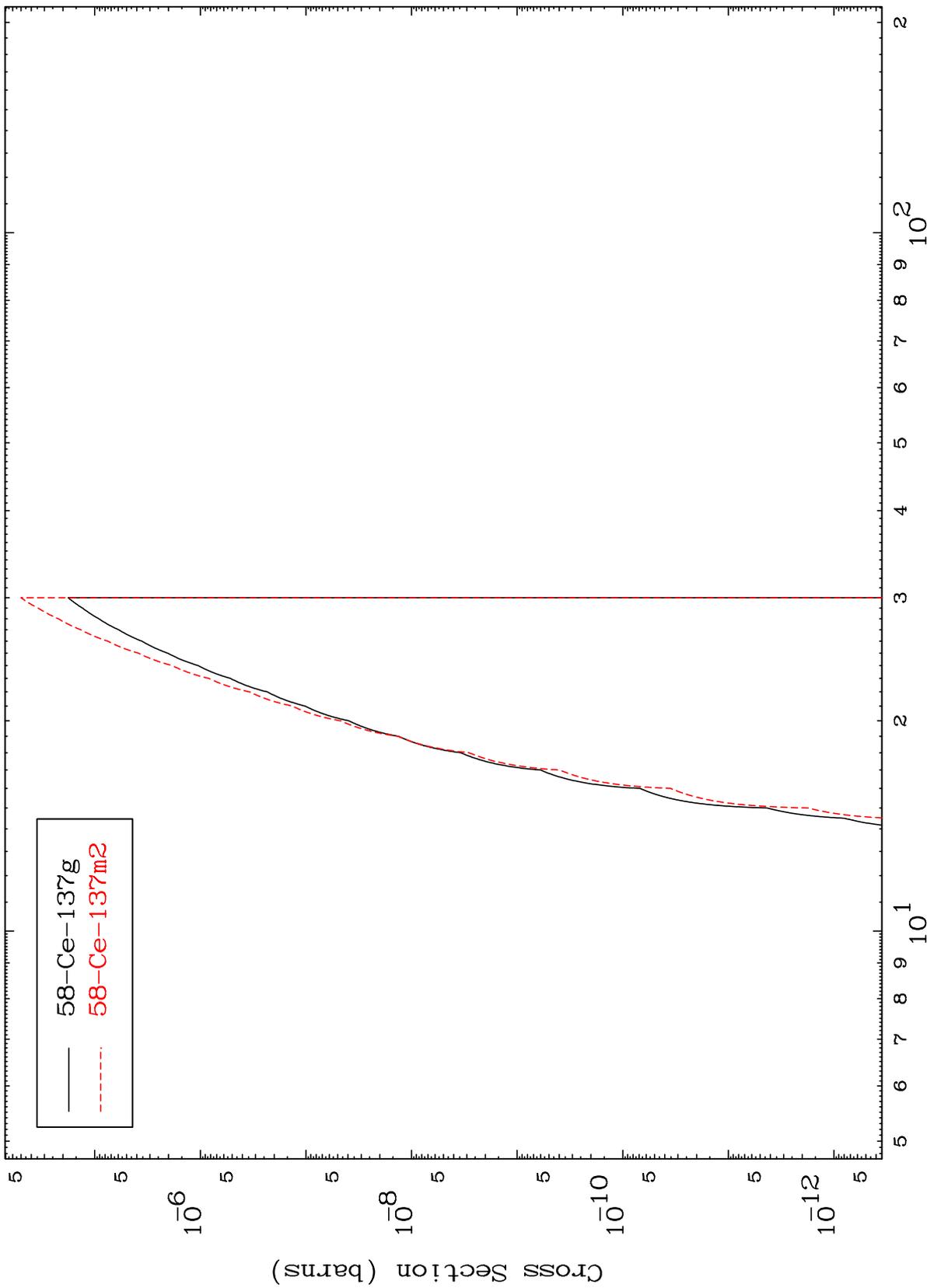
61-Pm-142

MAT 6134

(n,n') p α

61-Pm-142

Radionuclide Production Cross Section



58-Ce-137g
58-Ce-137m2

106

Incident Energy (MeV)

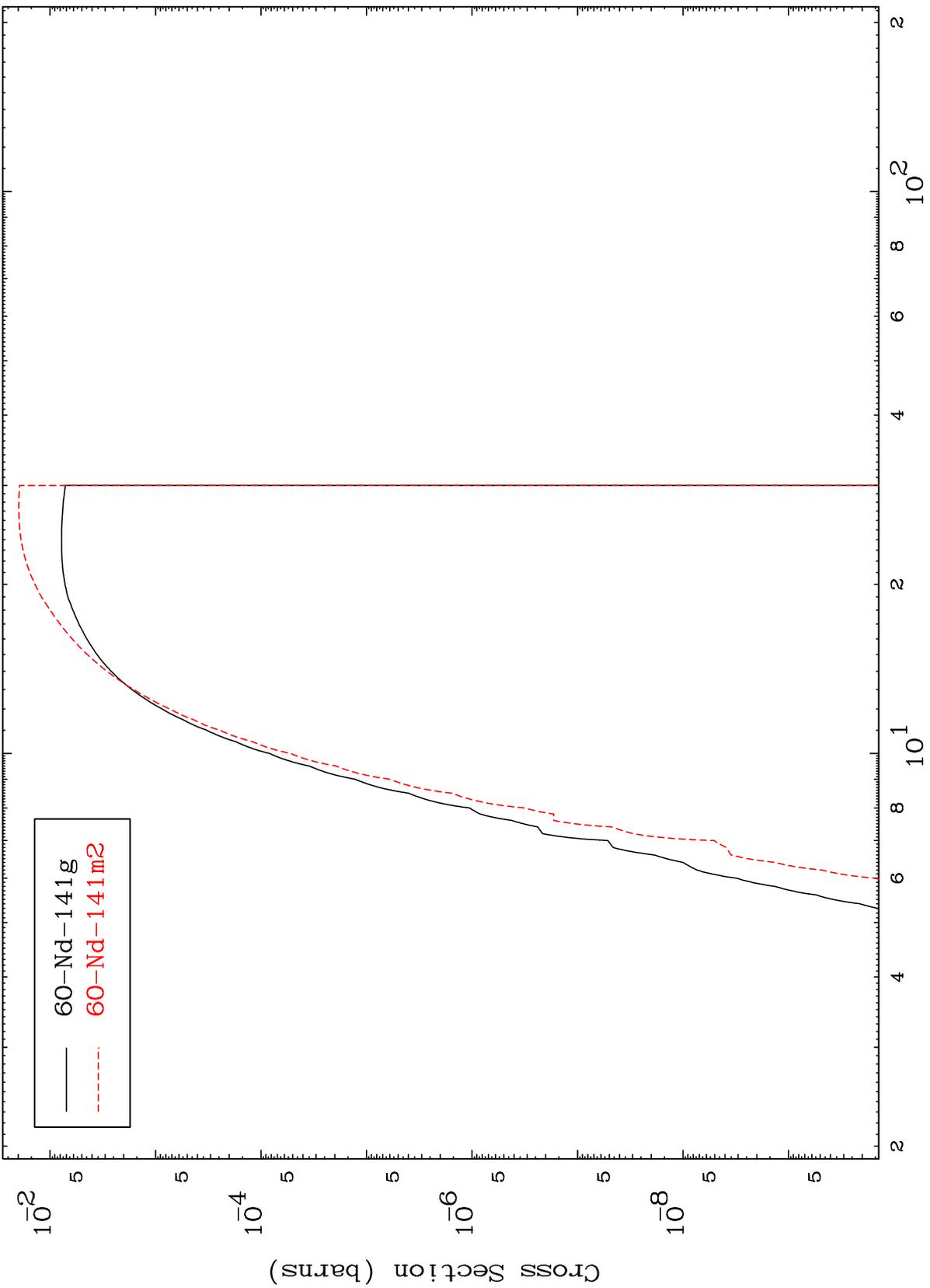
61-Pm-142

MAT 6134

(n,d)

61-Pm-142

Radionuclide Production Cross Section



107

Incident Energy (MeV)

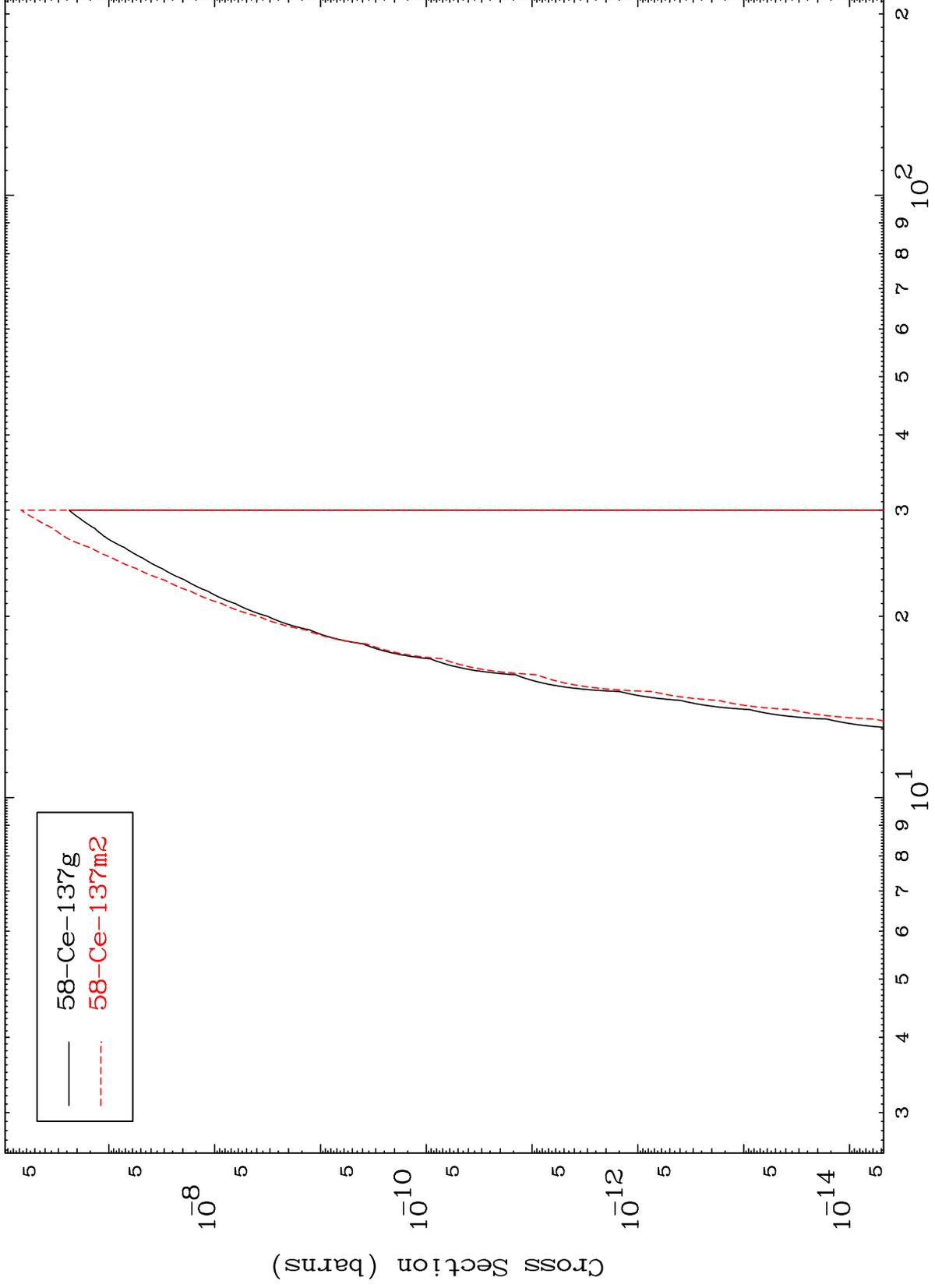
61-Pm-142

MAT 6134

(n,d) α

61-Pm-142

Radionuclide Production Cross Section



108

Incident Energy (MeV)

61-Pm-142