

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

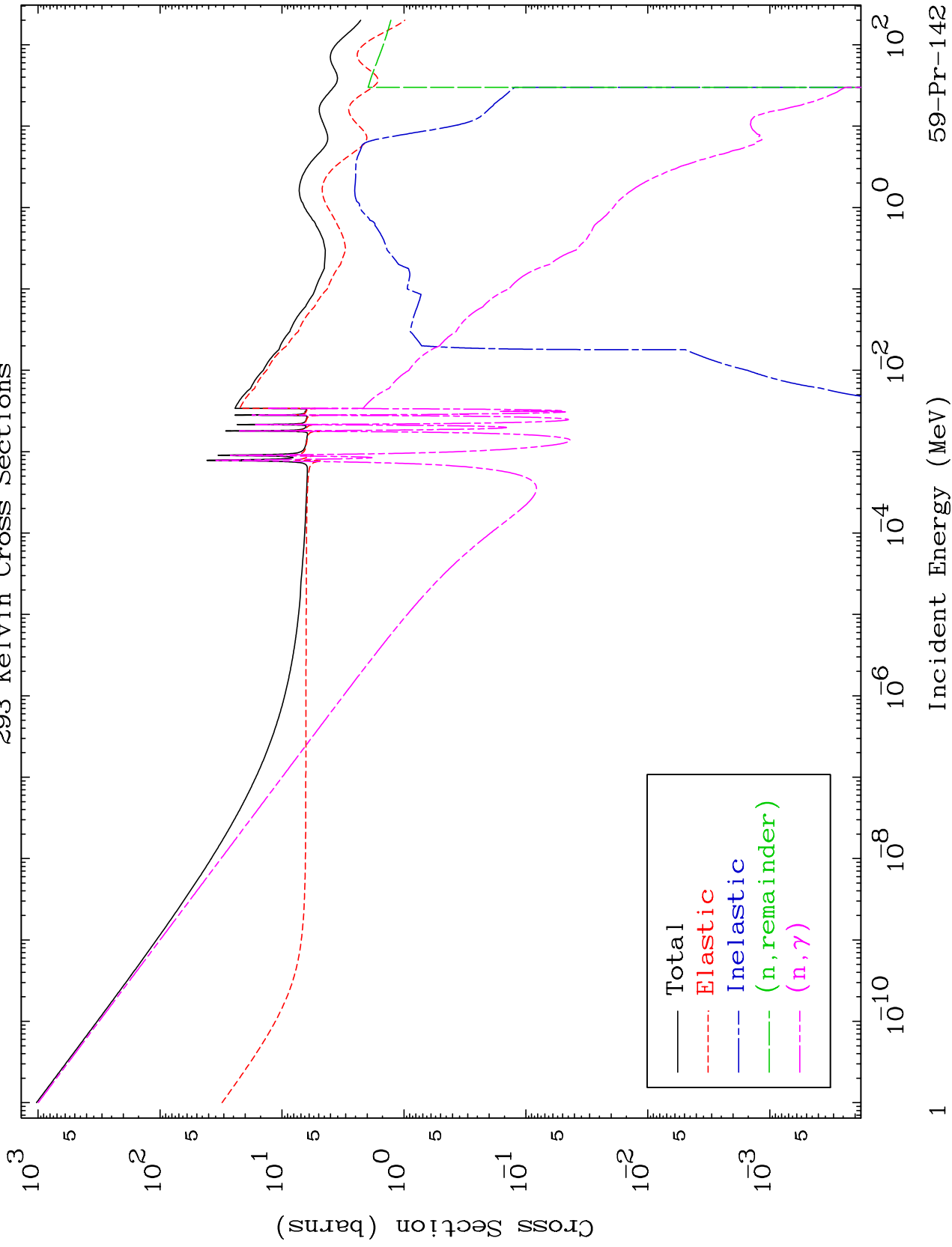
Press Mouse Button to Start

MAT 5928

Major

293 Kelvin Cross Sections

59-Pr-142



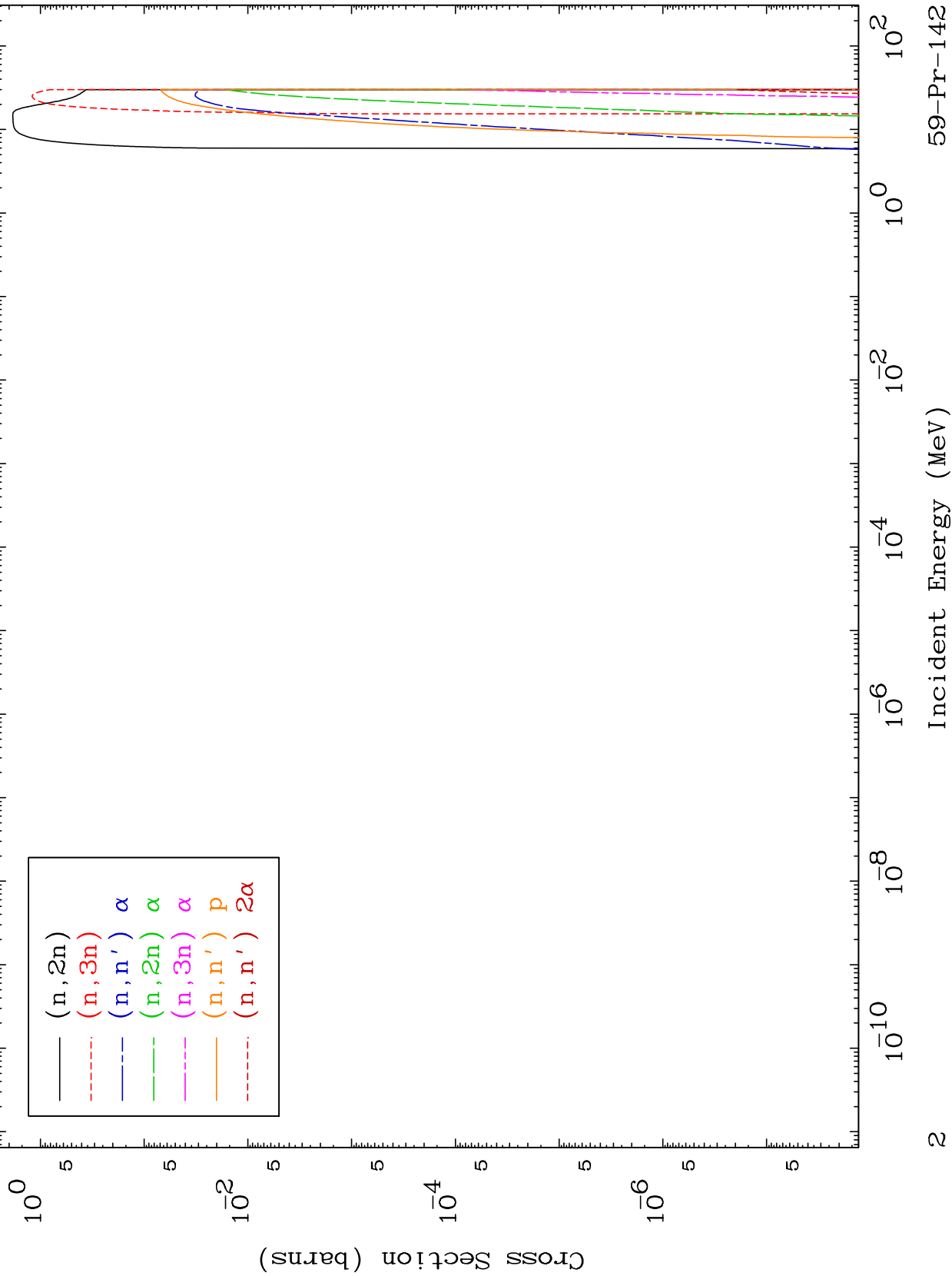
1

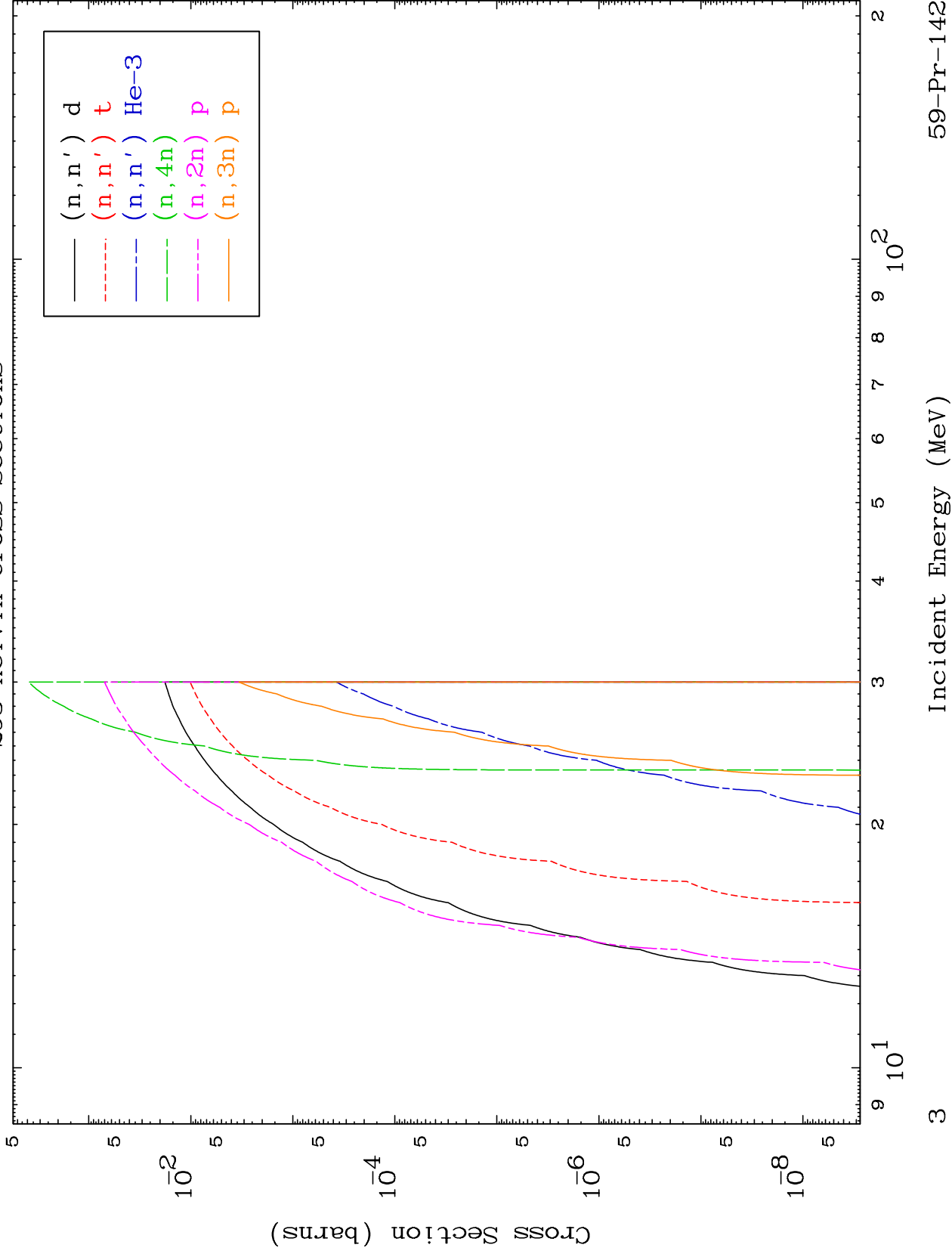
59-Pr-142

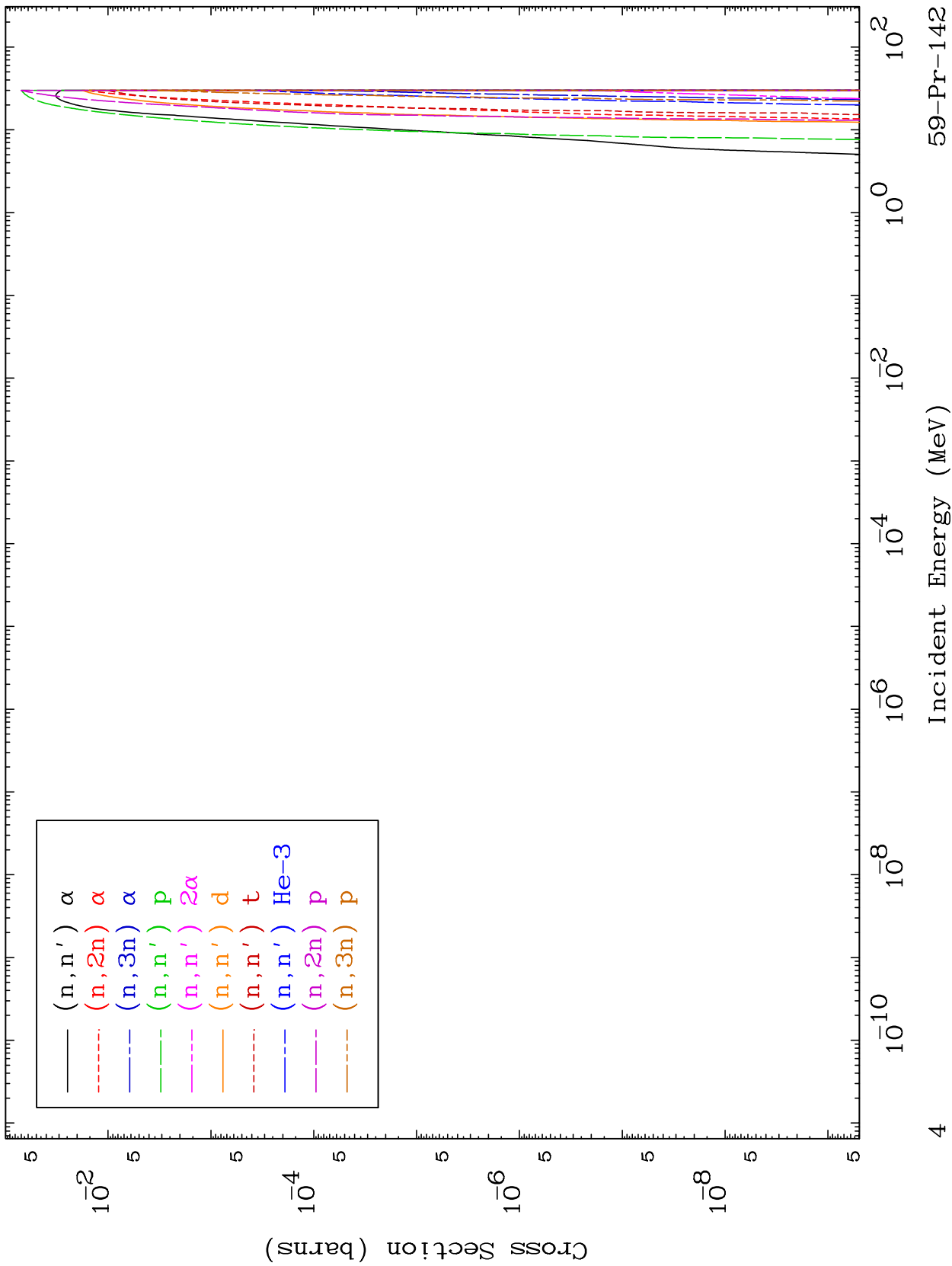
MAT 5928

Neutron Production  
293 Kelvin Cross Sections

59-Pr-142



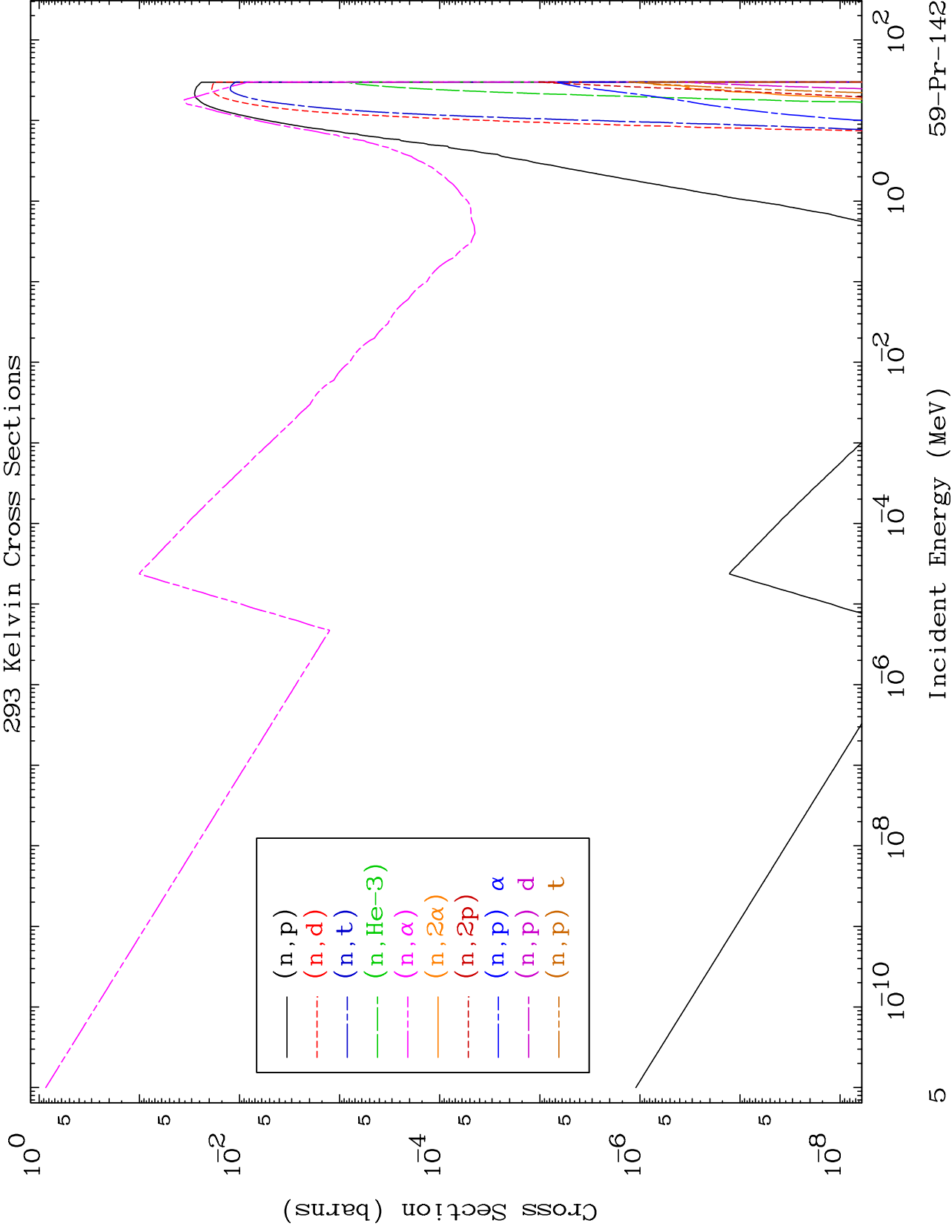




MAT 5928

Charged Particle  
293 Kelvin Cross Sections

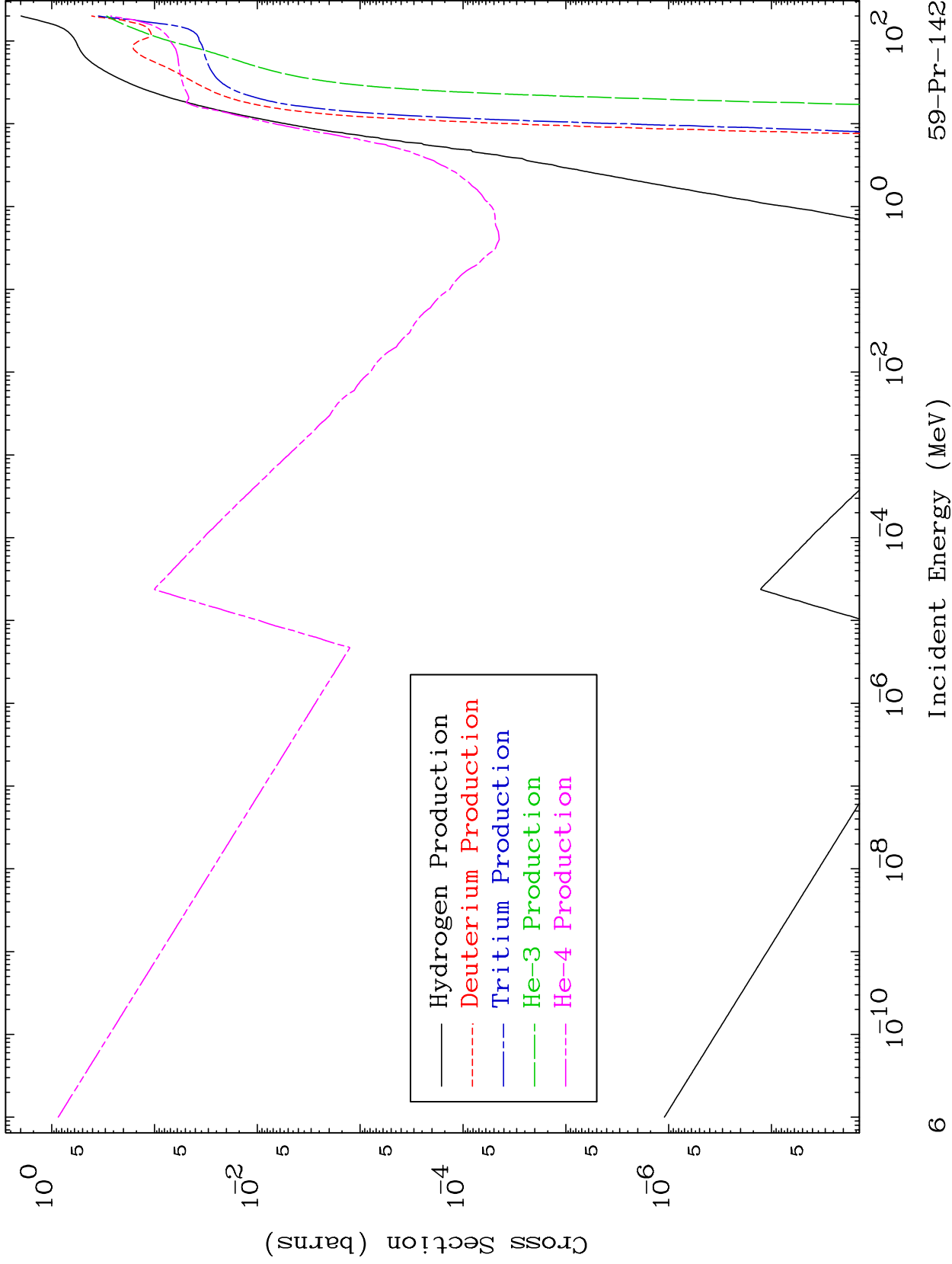
59-Pr-142



MAT 5928

Particle Production  
293 Kelvin Cross Sections

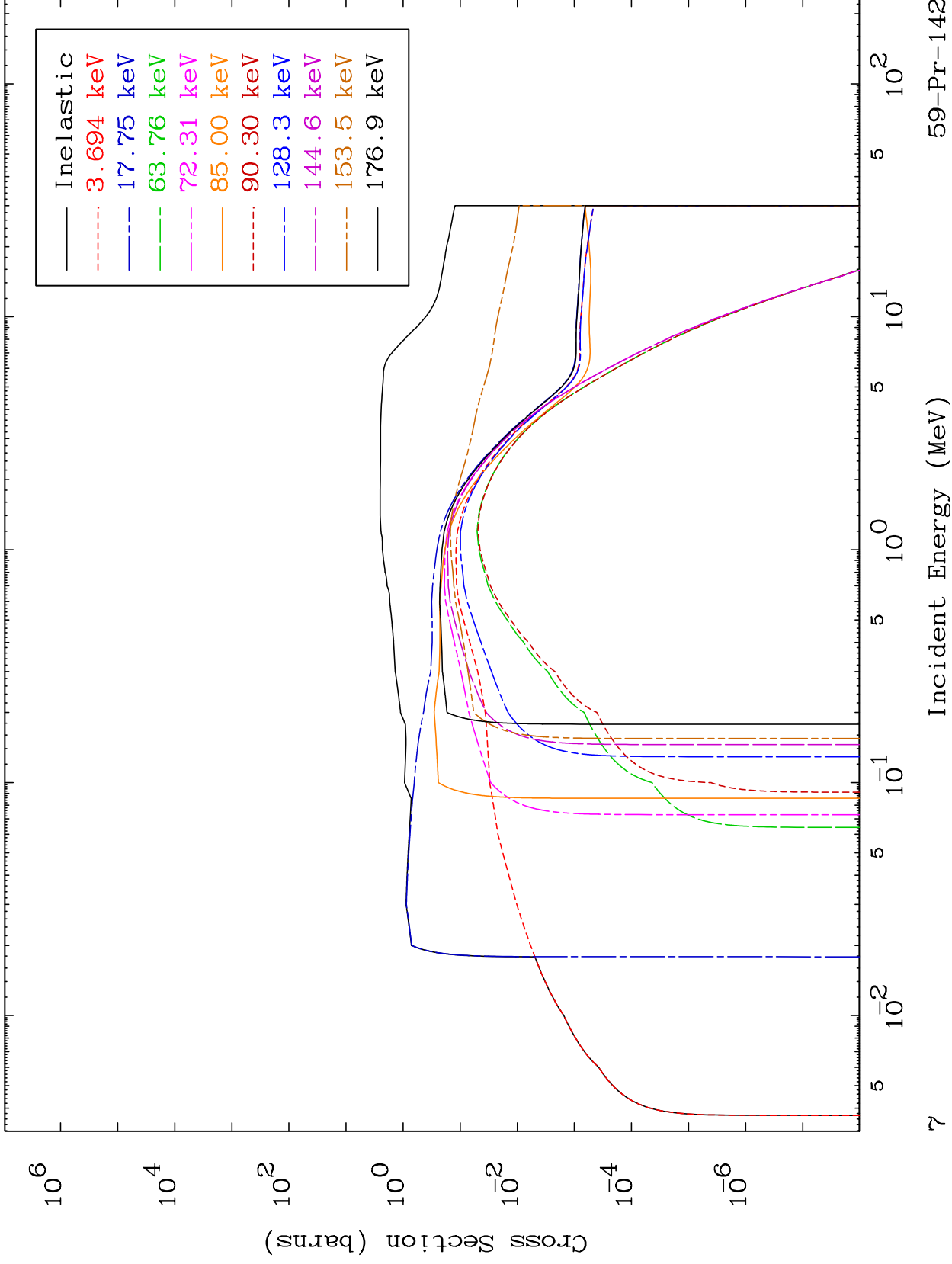
59-Pr-142



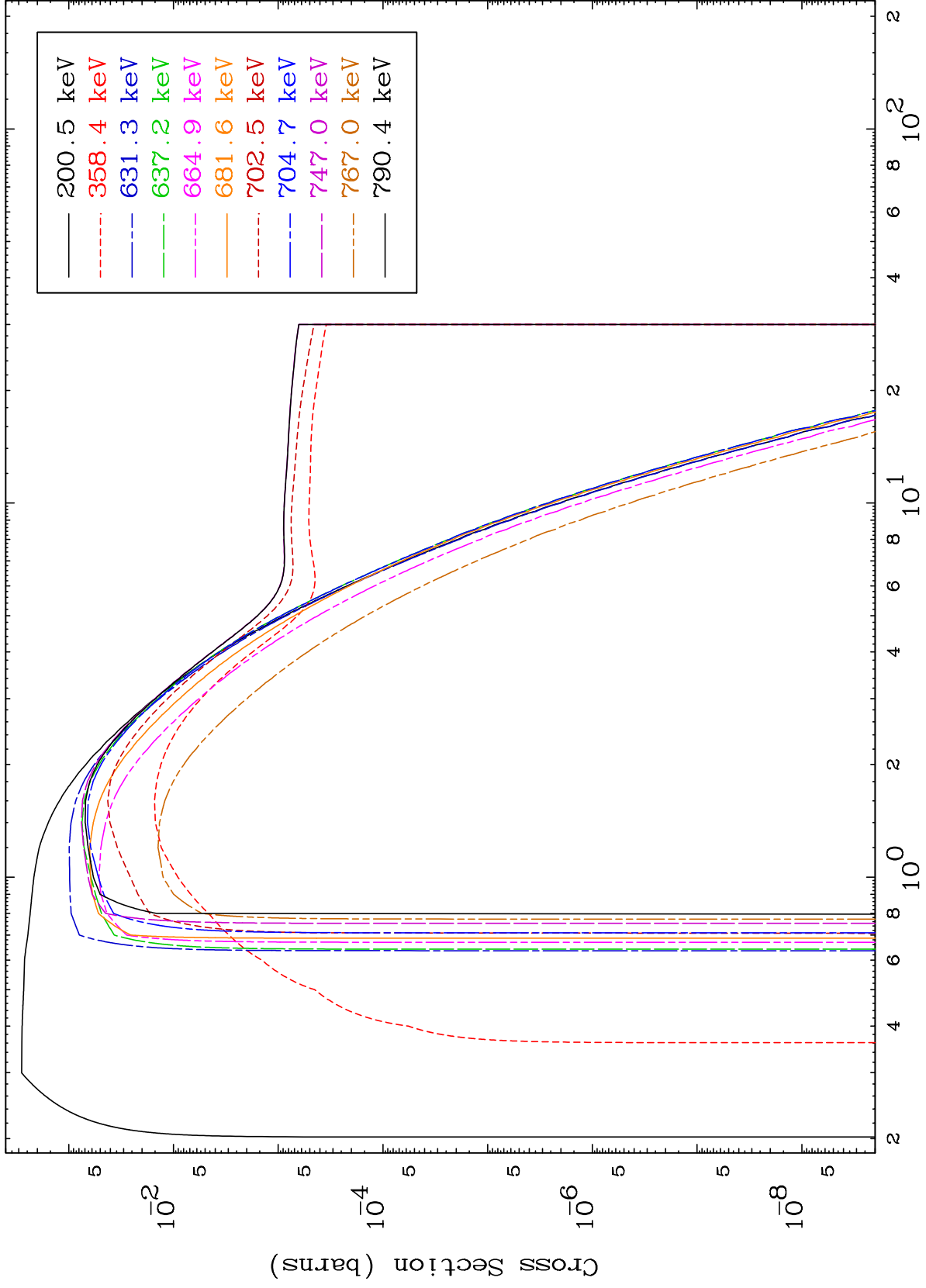
MAT 5928

(n,n') Level  
293 Kelvin Cross Sections

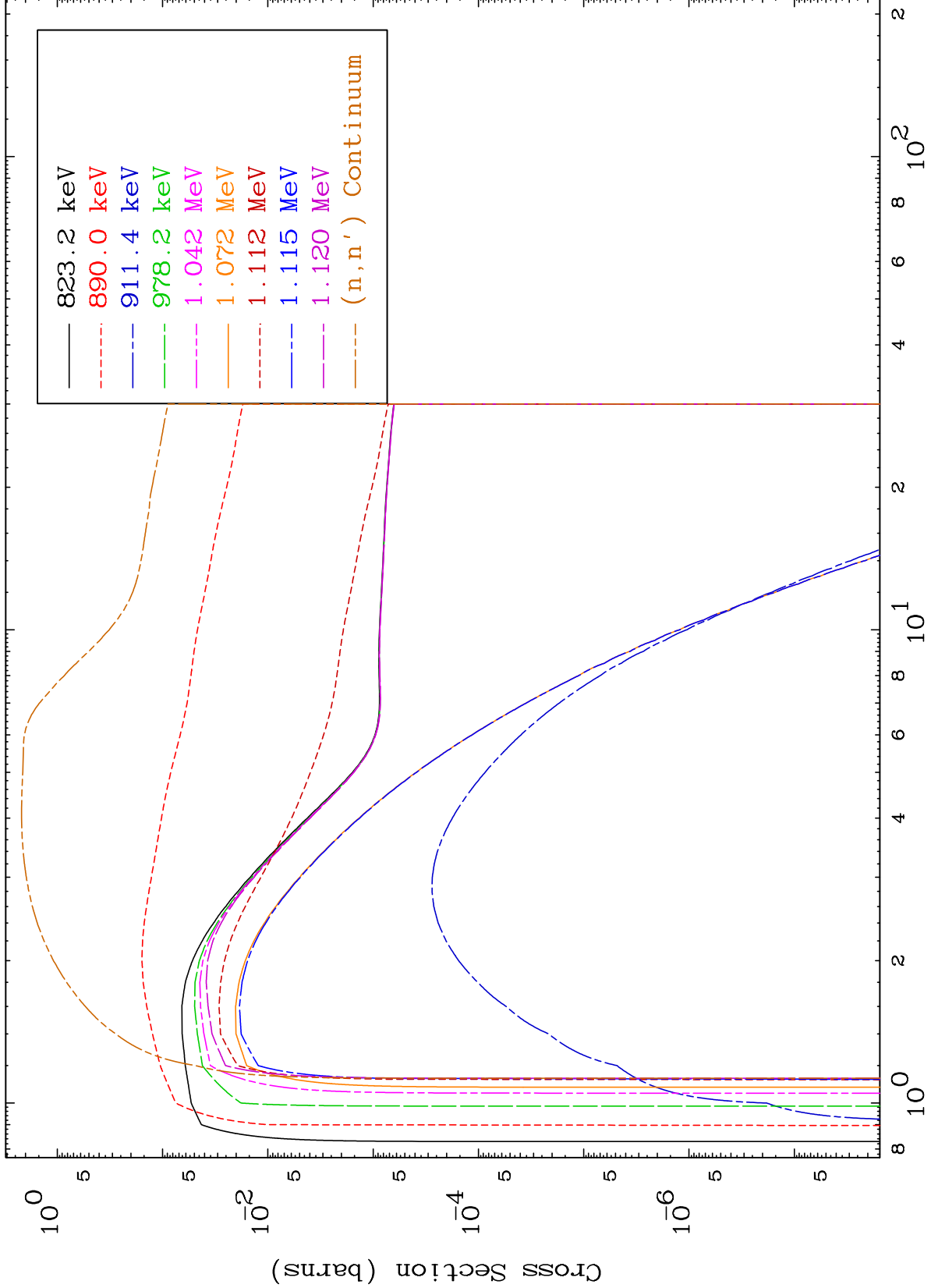
59-Pr-142







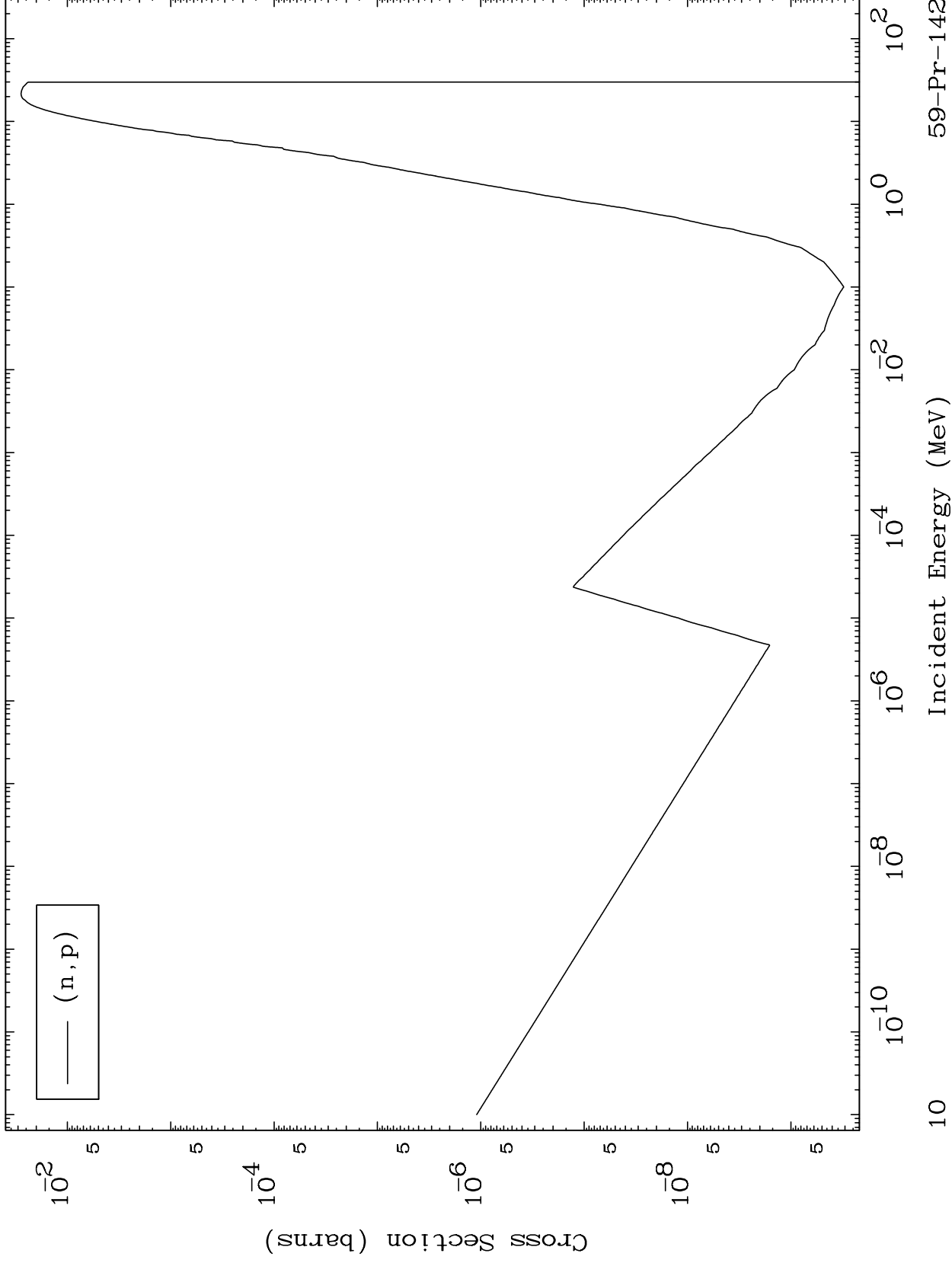
293 Kelvin Cross Sections

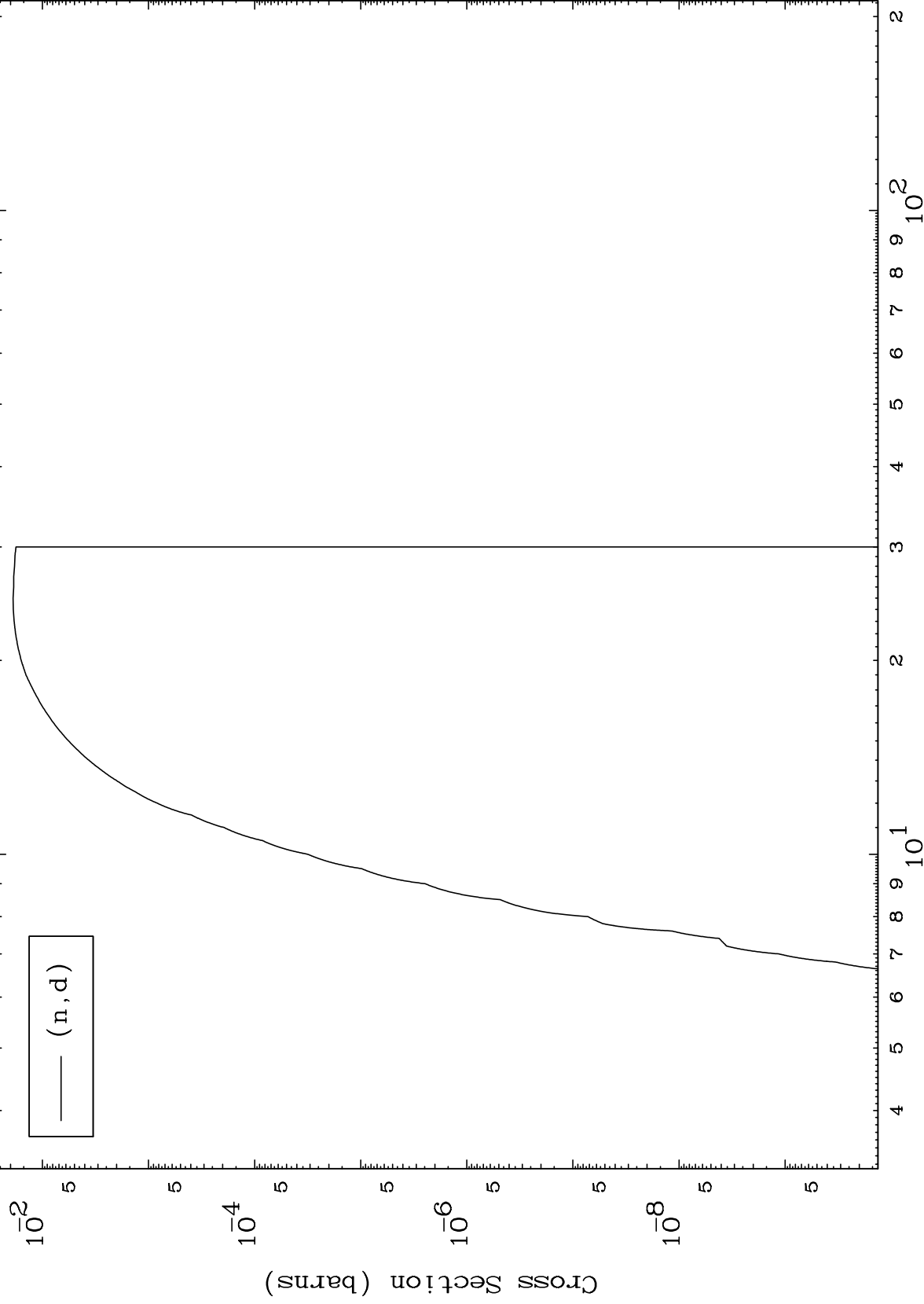


MAT 5928

(n,p) Levels  
293 Kelvin Cross Sections

59-Pr-142

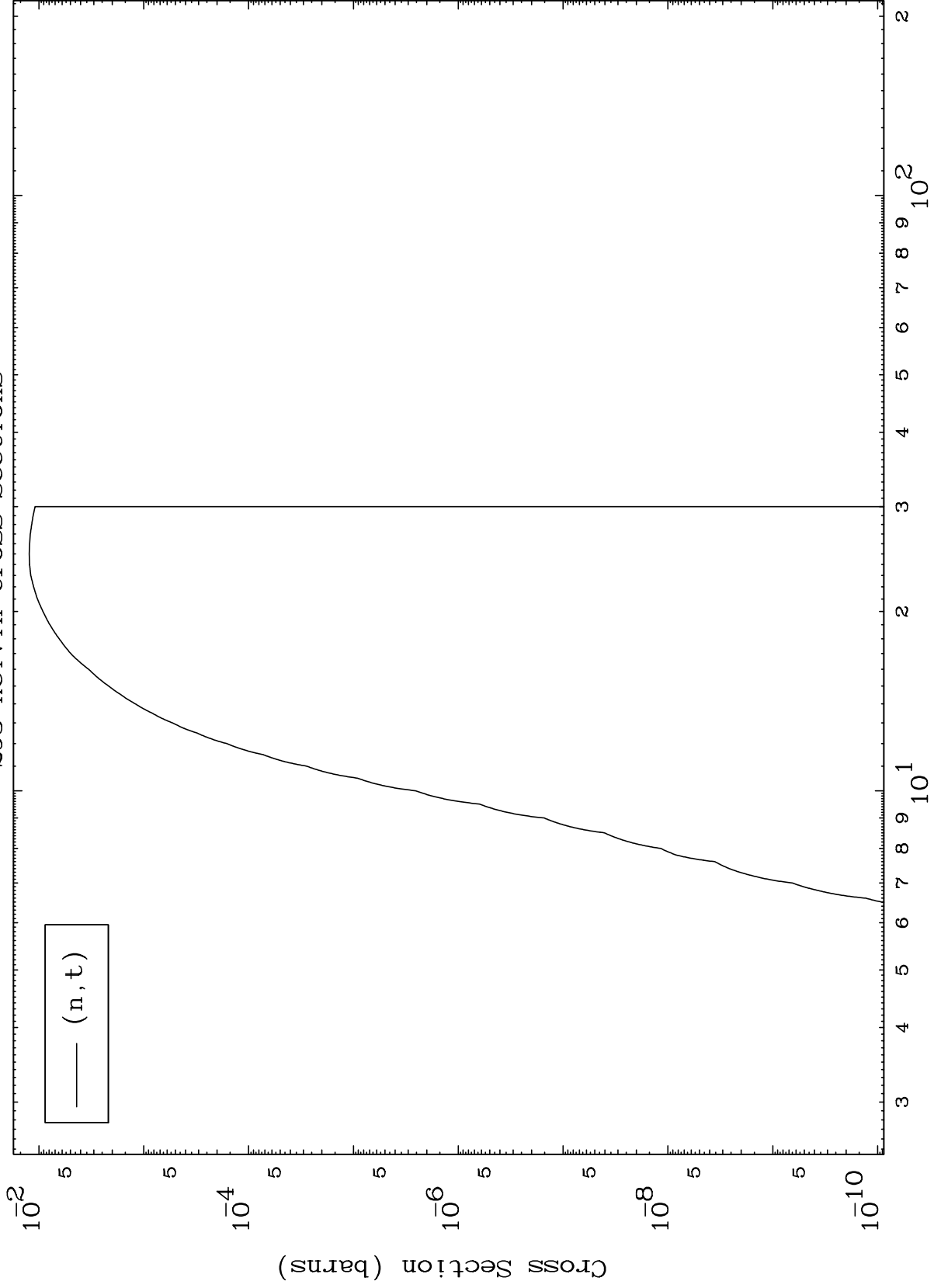




MAT 5928

(n,t) Levels  
293 Kelvin Cross Sections

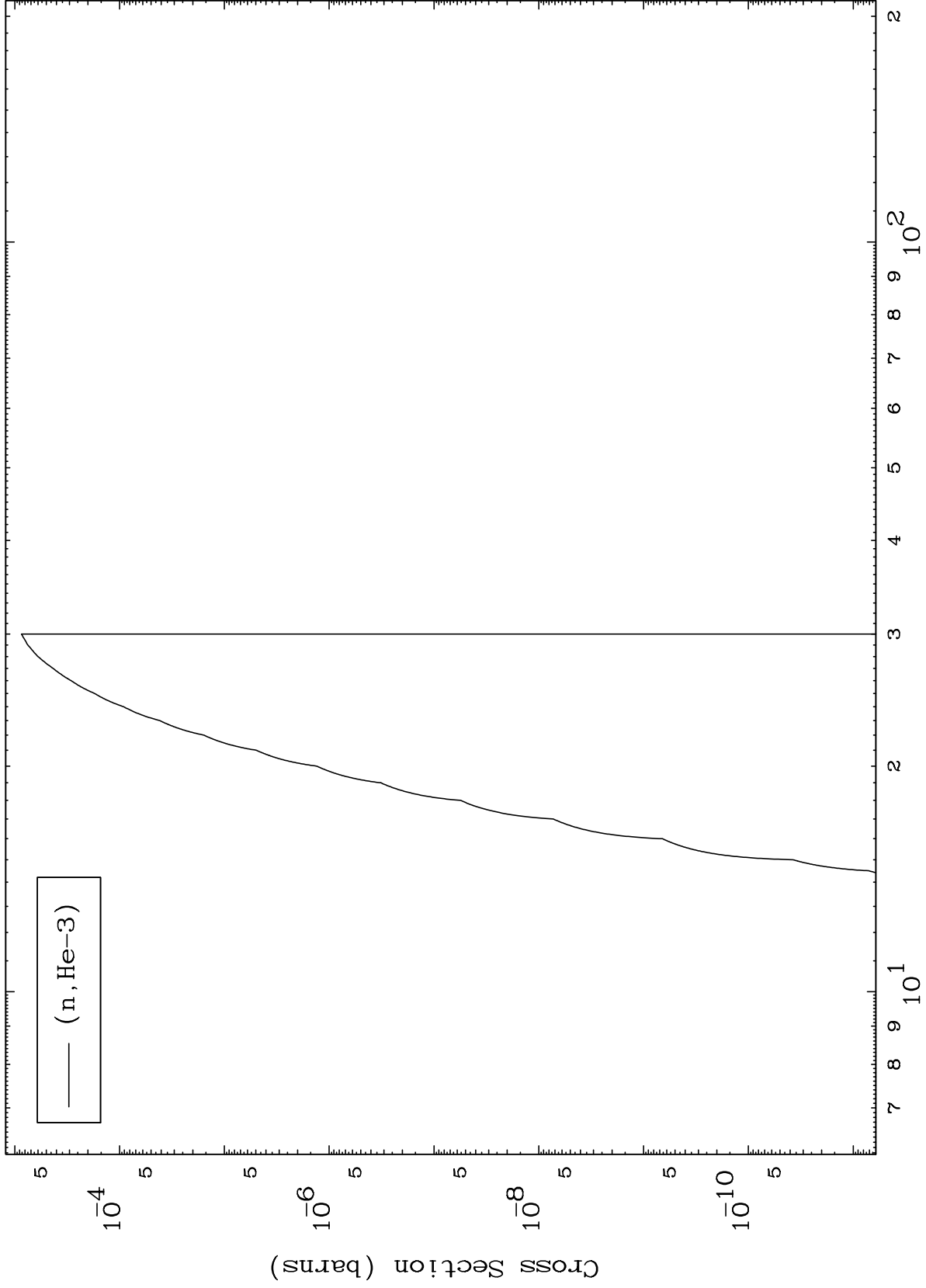
59-Pr-142



12

Incident Energy (MeV)

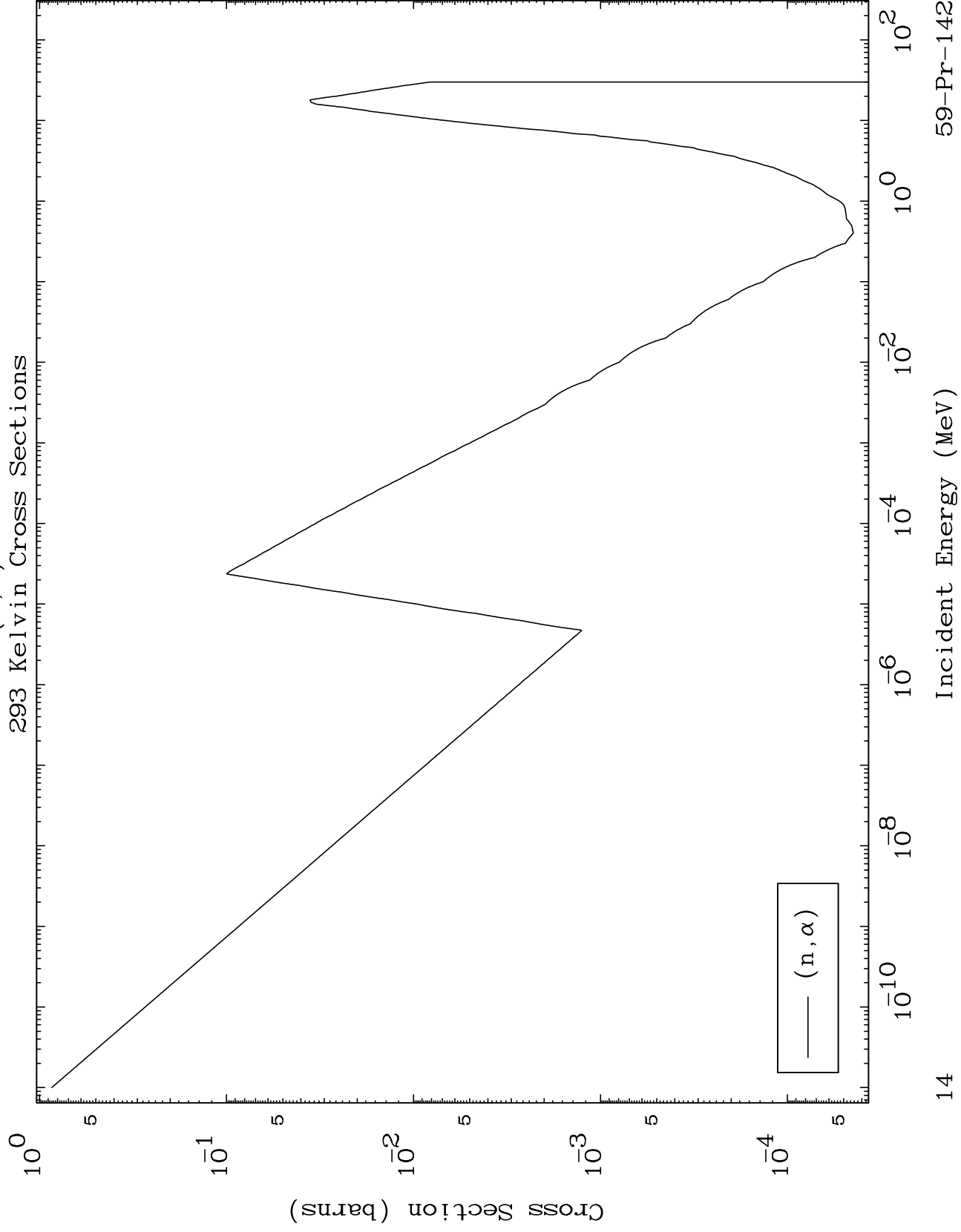
59-Pr-142



MAT 5928

(n,α) Levels  
293 Kelvin Cross Sections

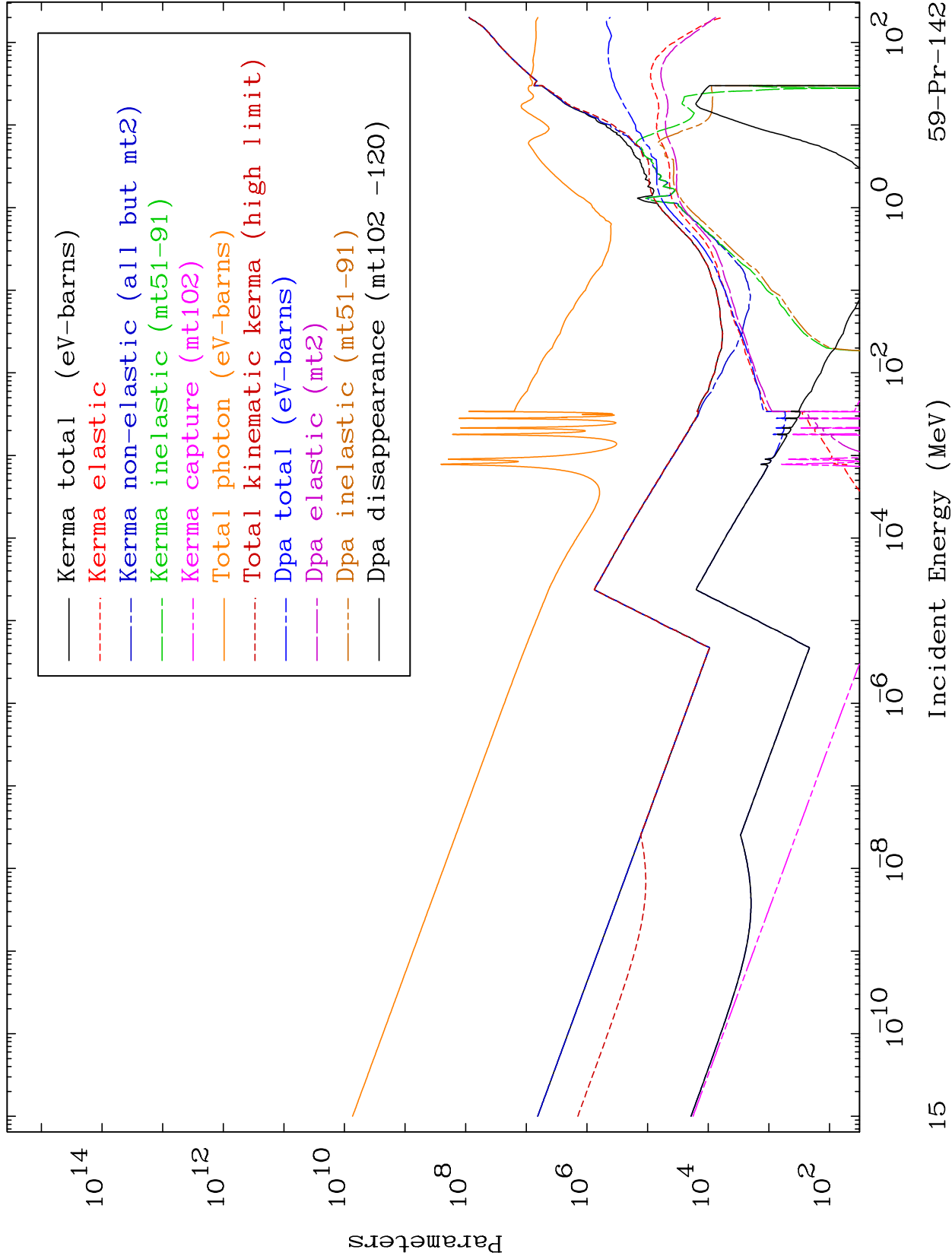
59-Pr-142



14

Incident Energy (MeV)

59-Pr-142

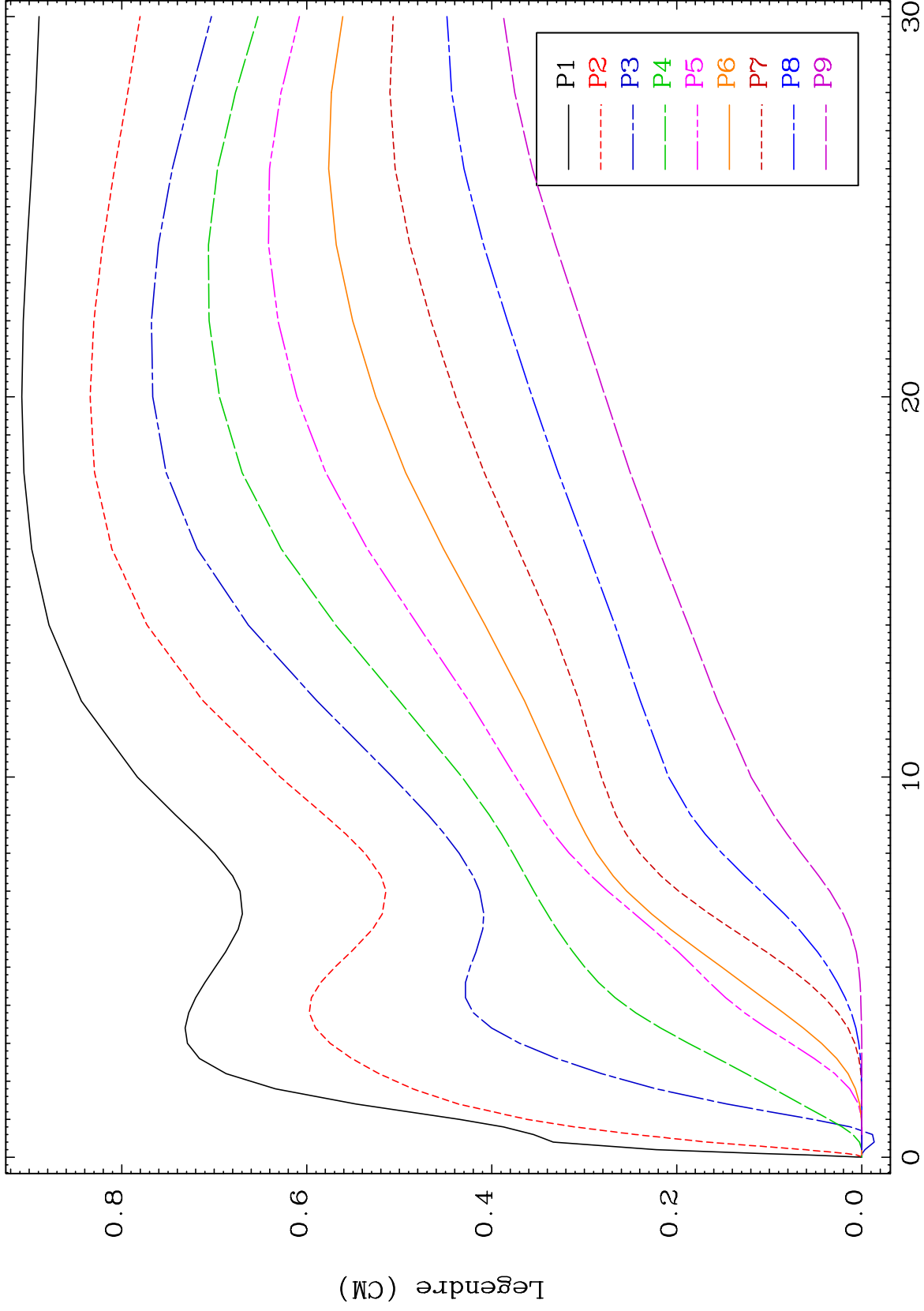




MAT 5928

59-Pr-142

Elastic Legendre Coefficients



59-Pr-142

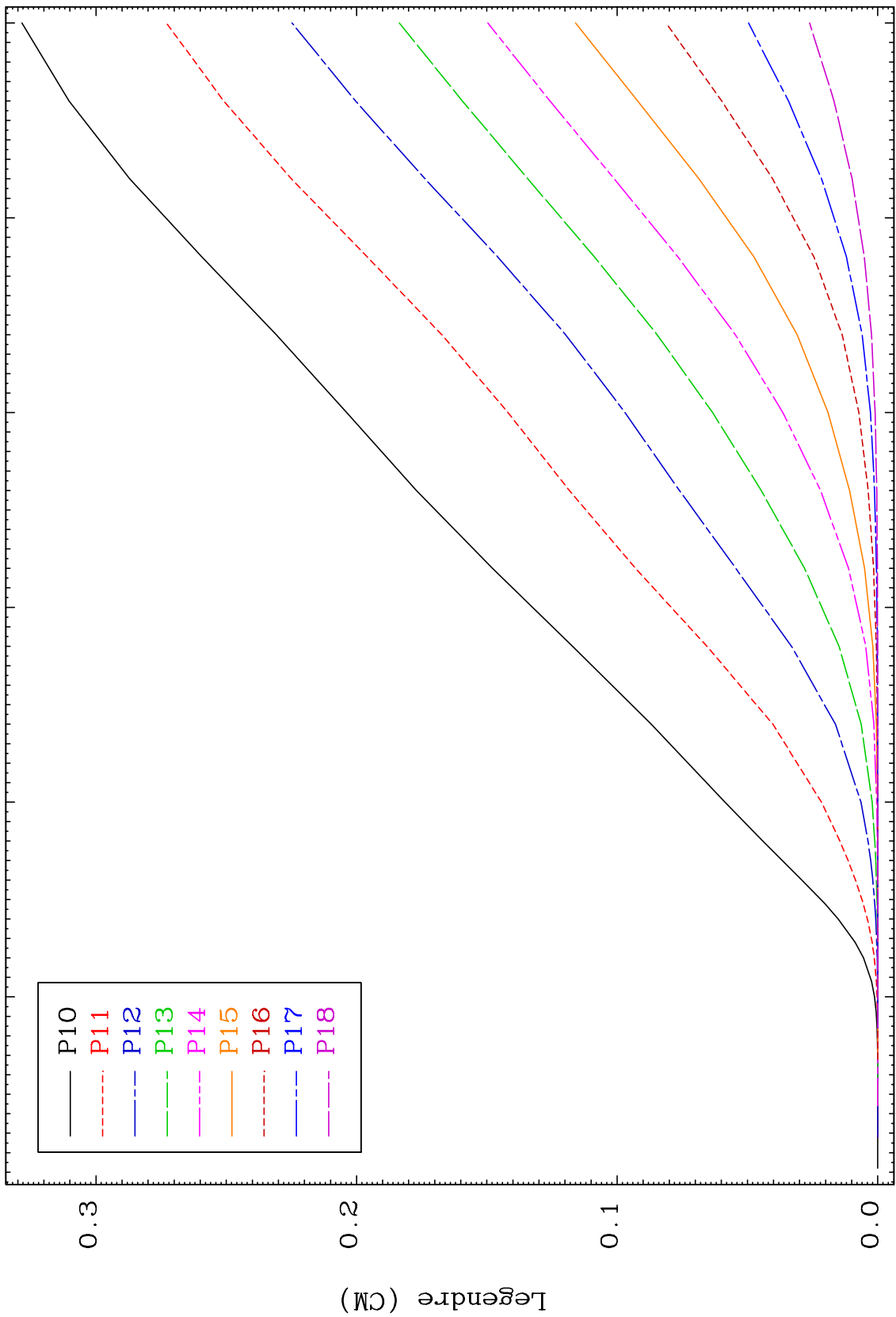
Incident Energy (MeV)

16

MAT 5928

Elastic Legendre Coefficients

59-Pr-142



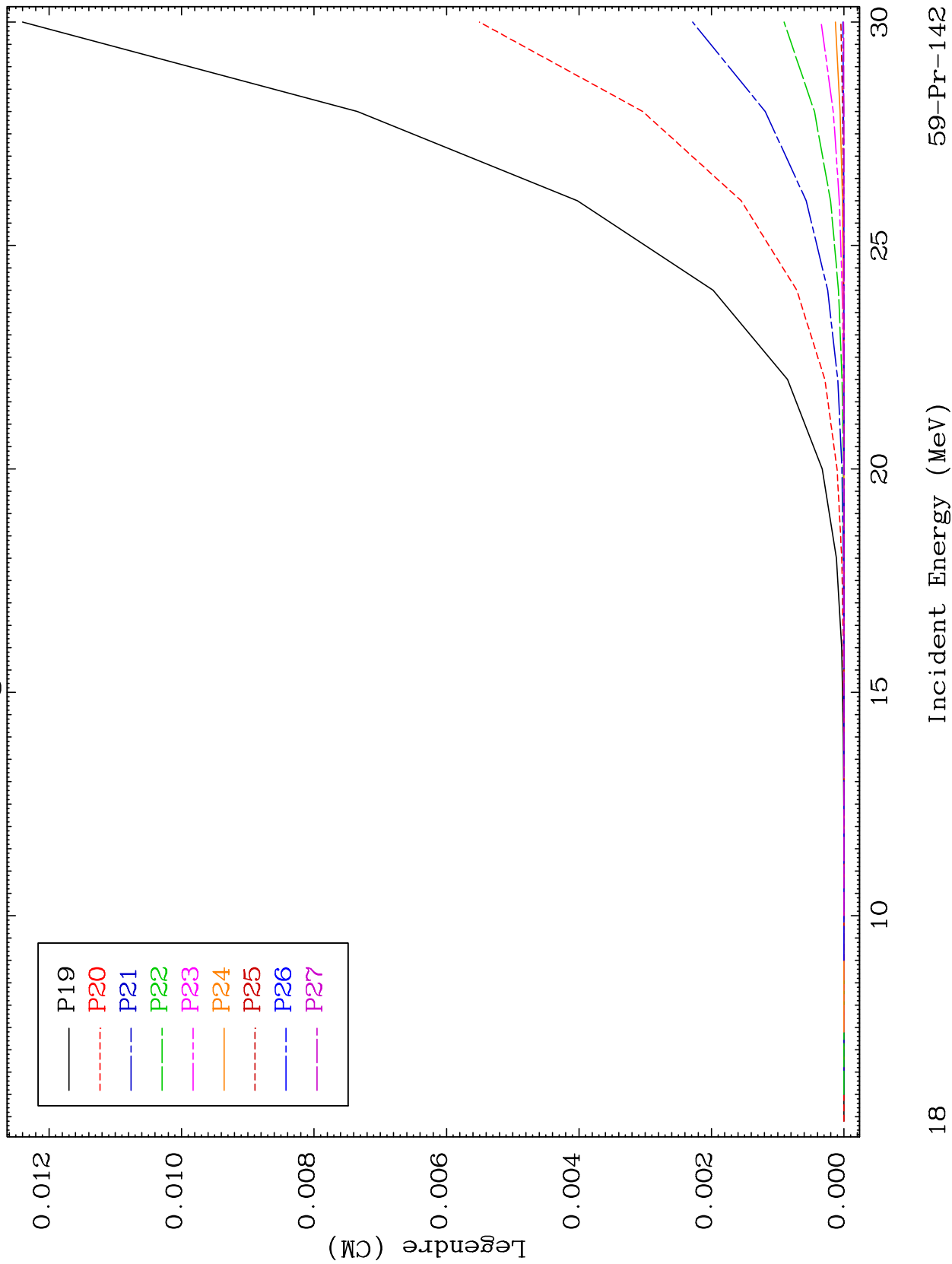
17

59-Pr-142

MAT 5928

### Elastic Legendre Coefficients

59-Pr-142



18

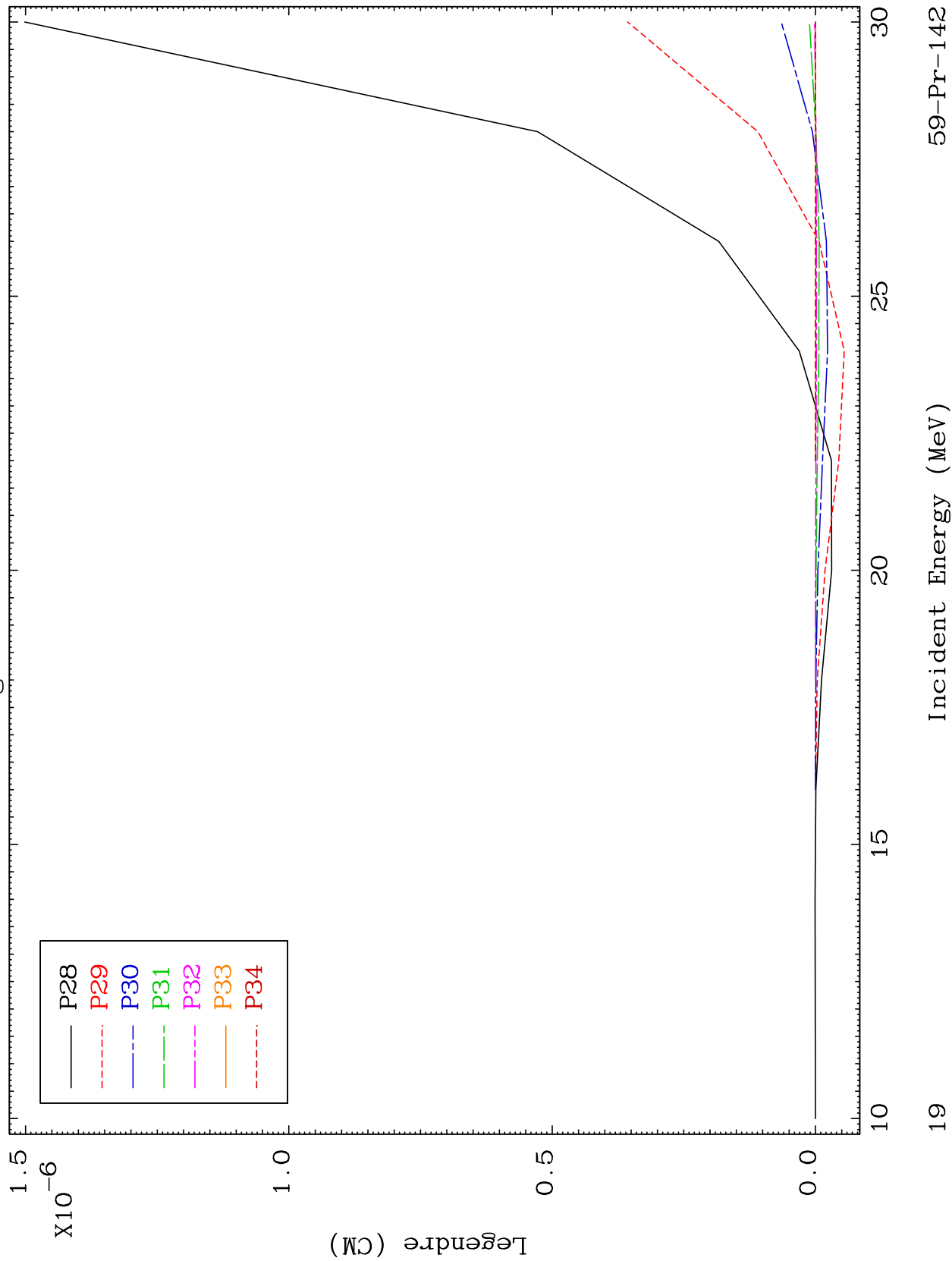
Incident Energy (MeV)

59-Pr-142

MAT 5928

Elastic Legendre Coefficients

59-Pr-142



59-Pr-142

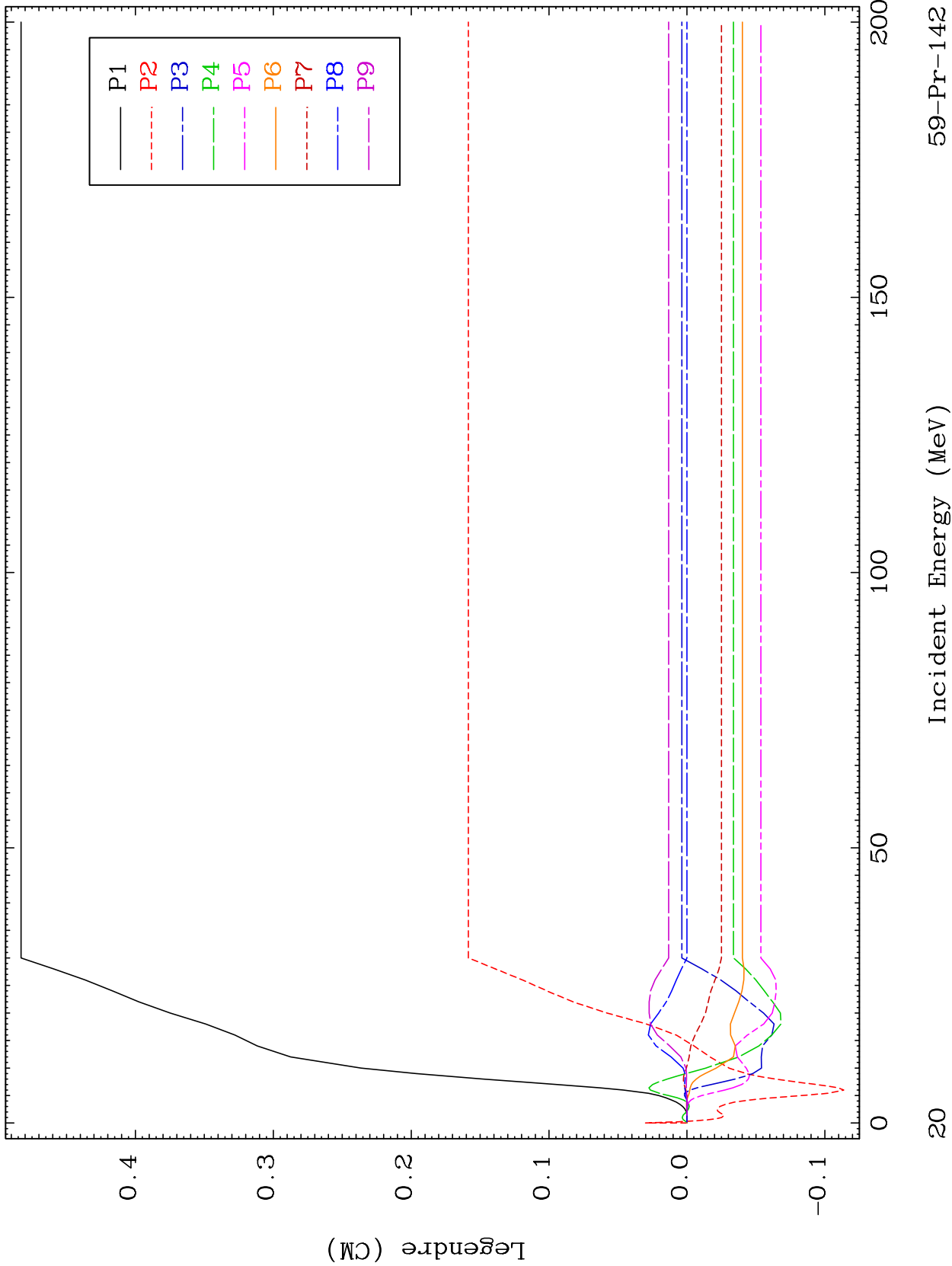
Incident Energy (MeV)

19

MAT 5928

3.694 keV (n,n') Level  
Legendre Coefficients

59-Pr-142

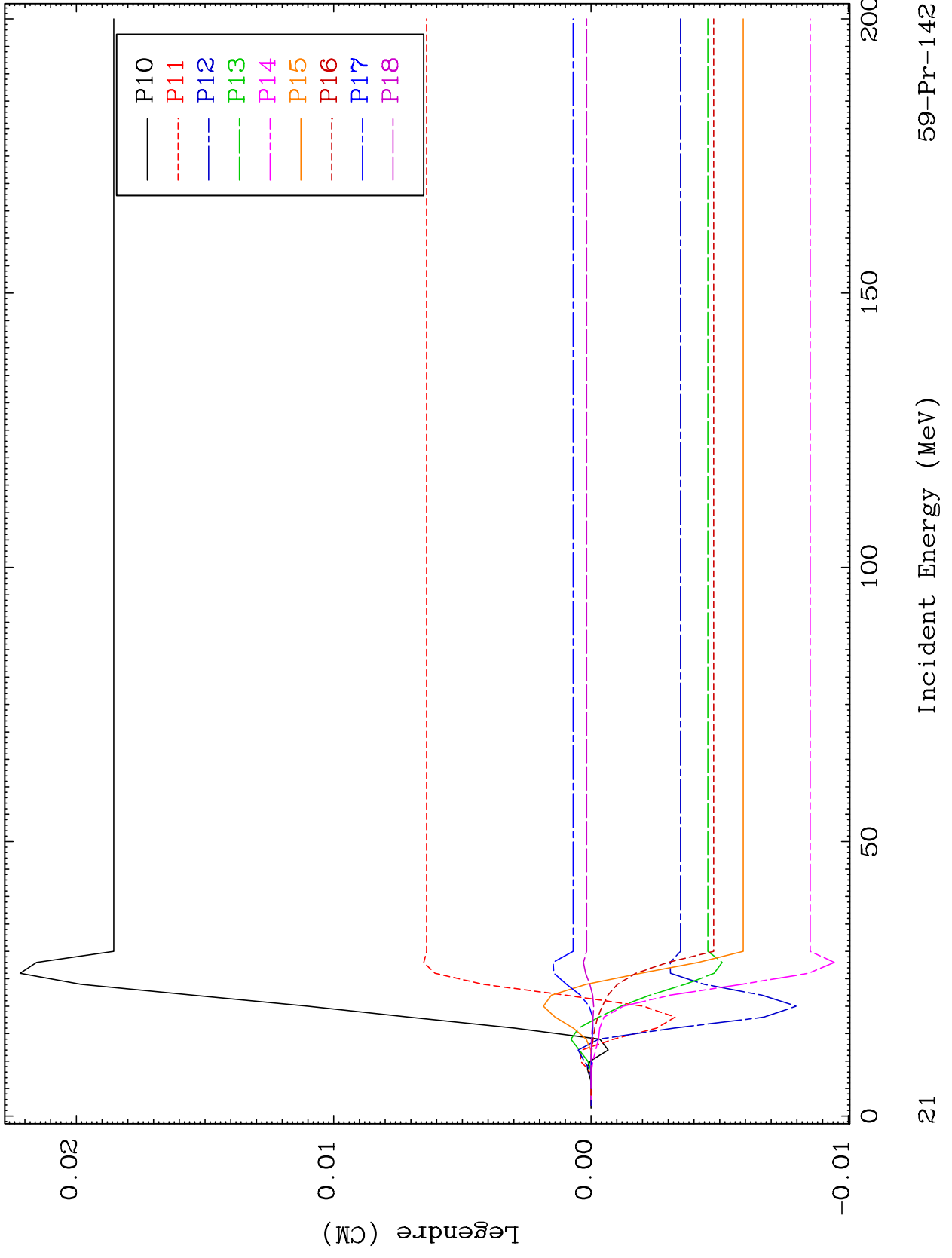


59-Pr-142

MAT 5928

3.694 keV (n,n') Level  
Legendre Coefficients

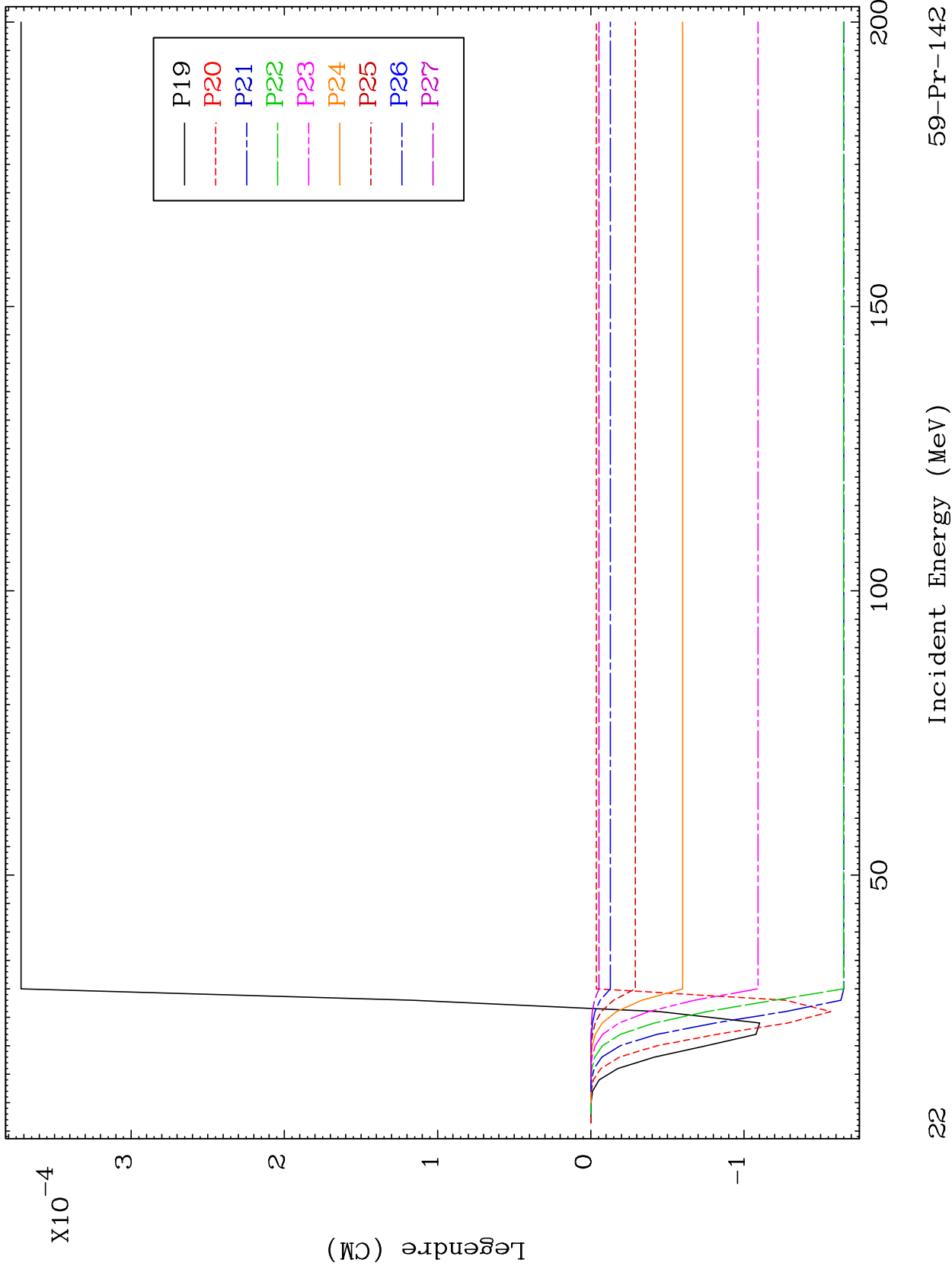
59-Pr-142

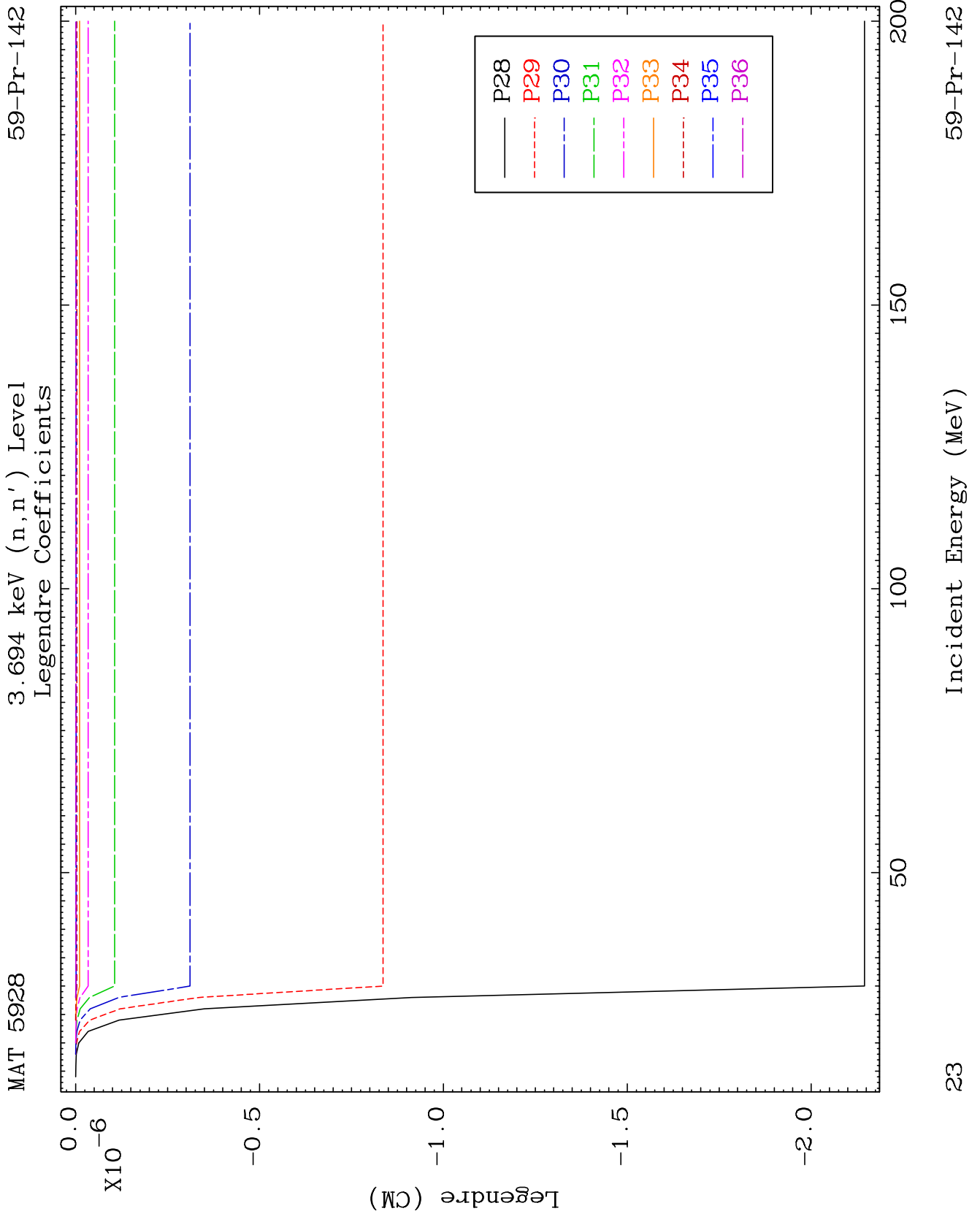


21

Incident Energy (MeV)

59-Pr-142



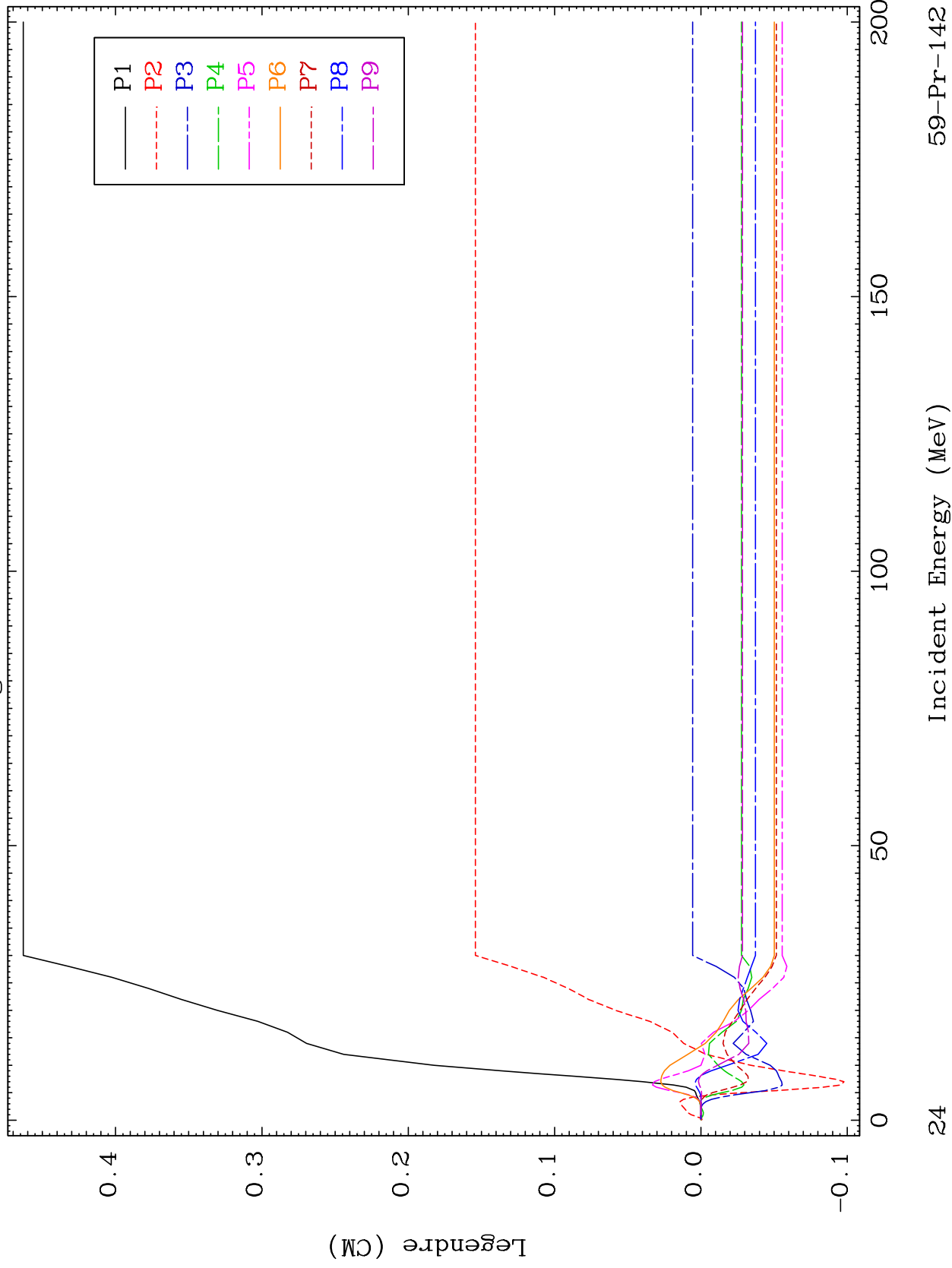




MAT 5928

17.75 keV (n,n') Level  
Legendre Coefficients

59-Pr-142



59-Pr-142

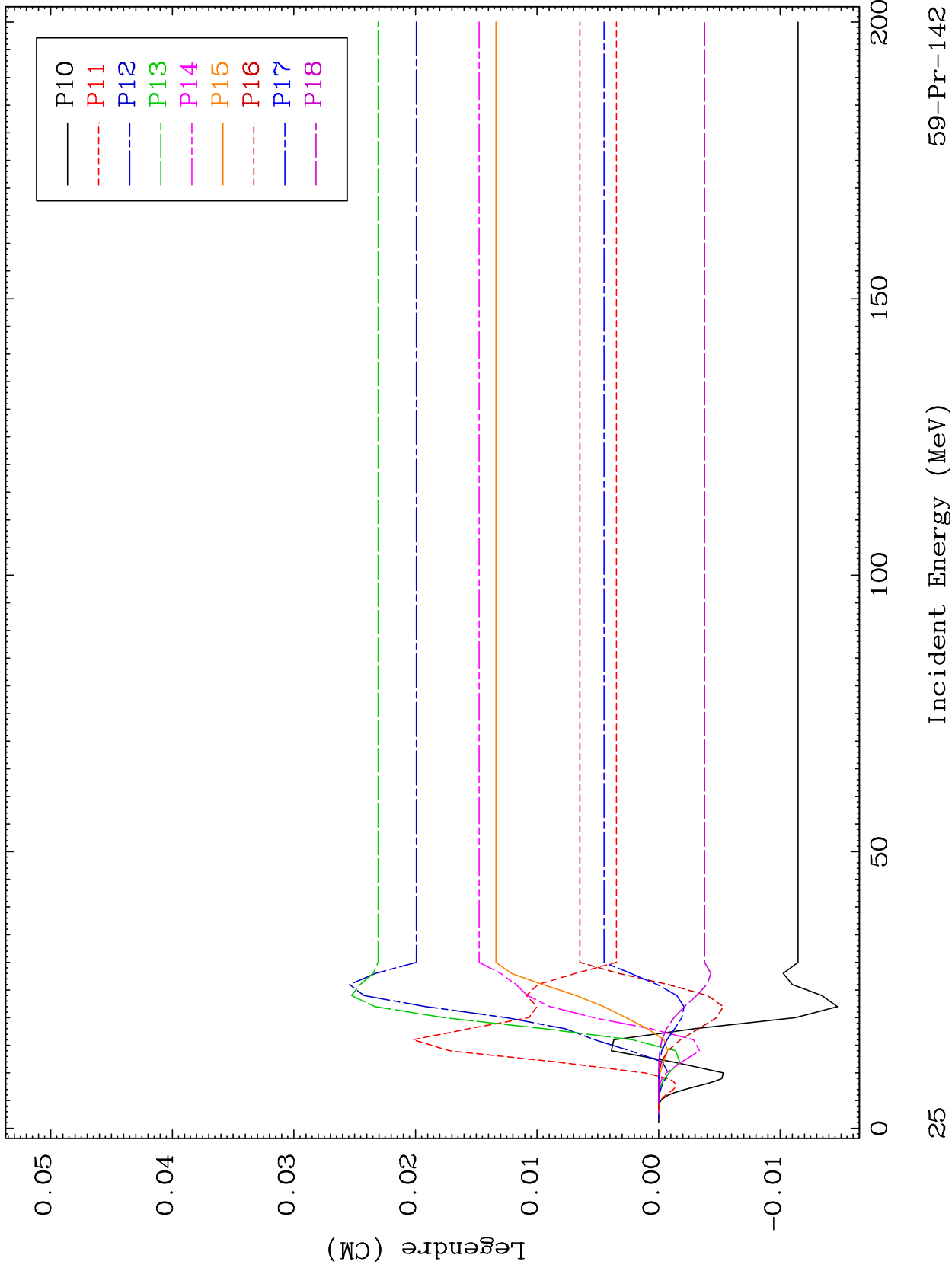
Incident Energy (MeV)

24

MAT 5928

17.75 keV (n,n') Level  
Legendre Coefficients

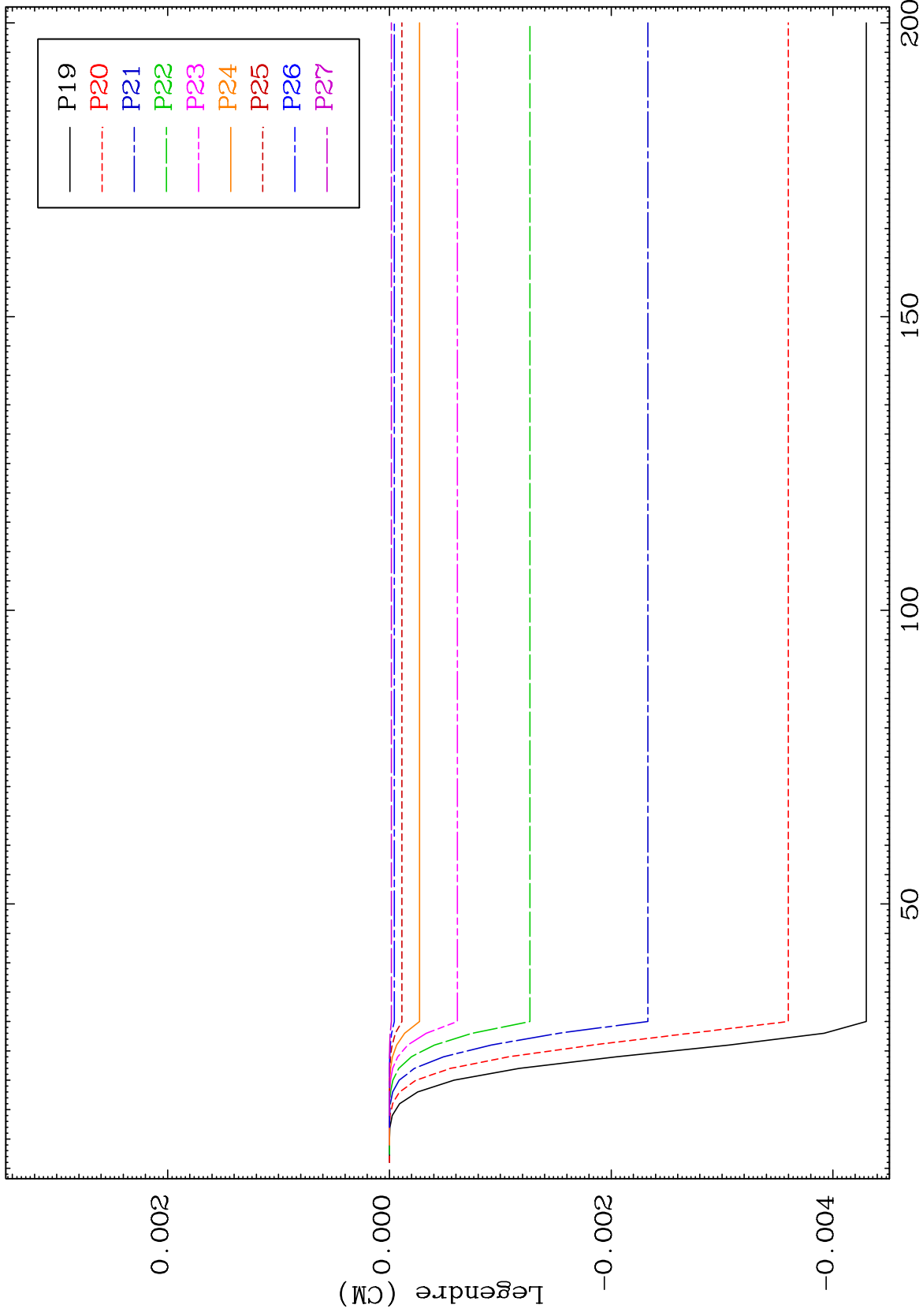
59-Pr-142

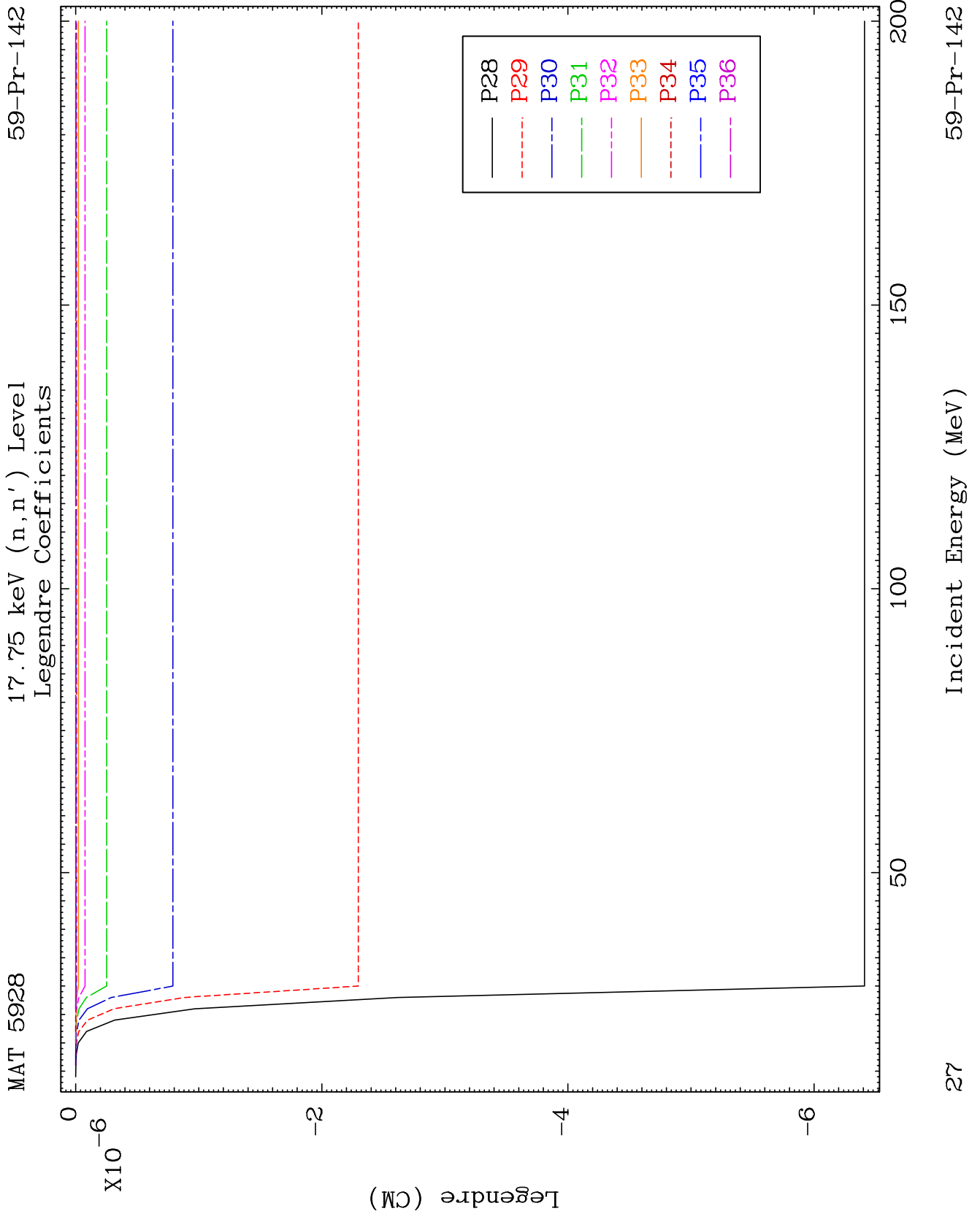


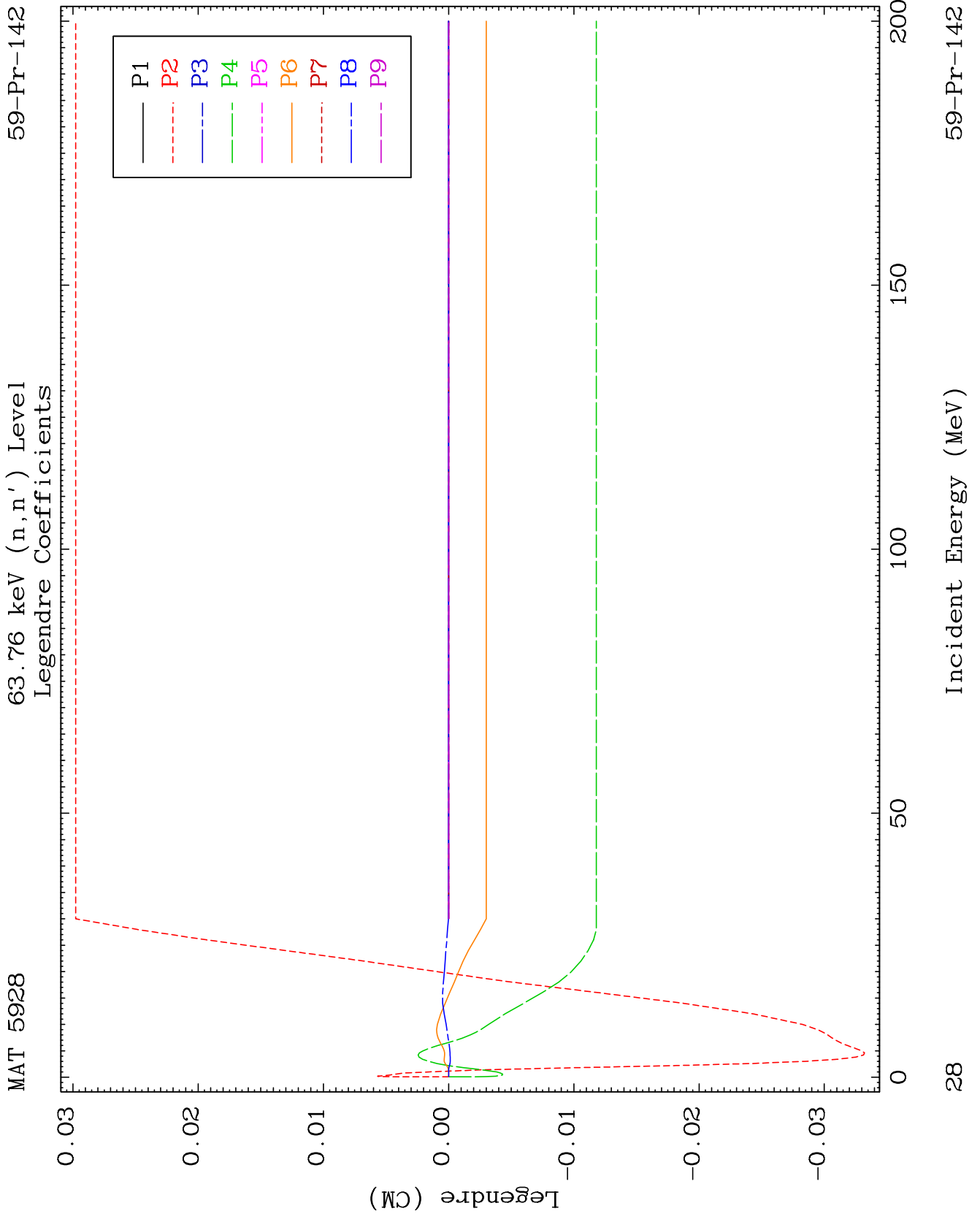
59-Pr-142

Incident Energy (MeV)

25



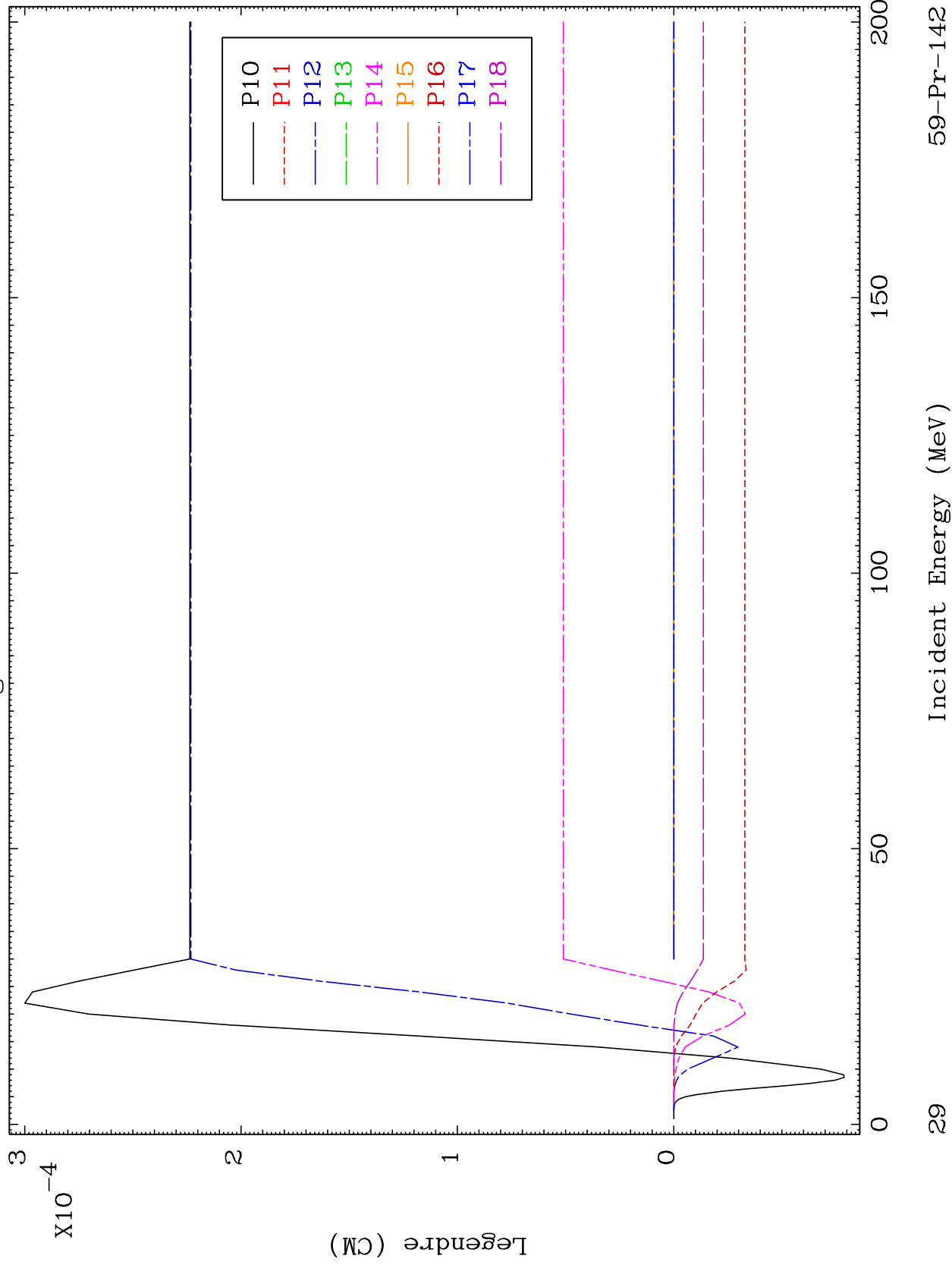




MAT 5928

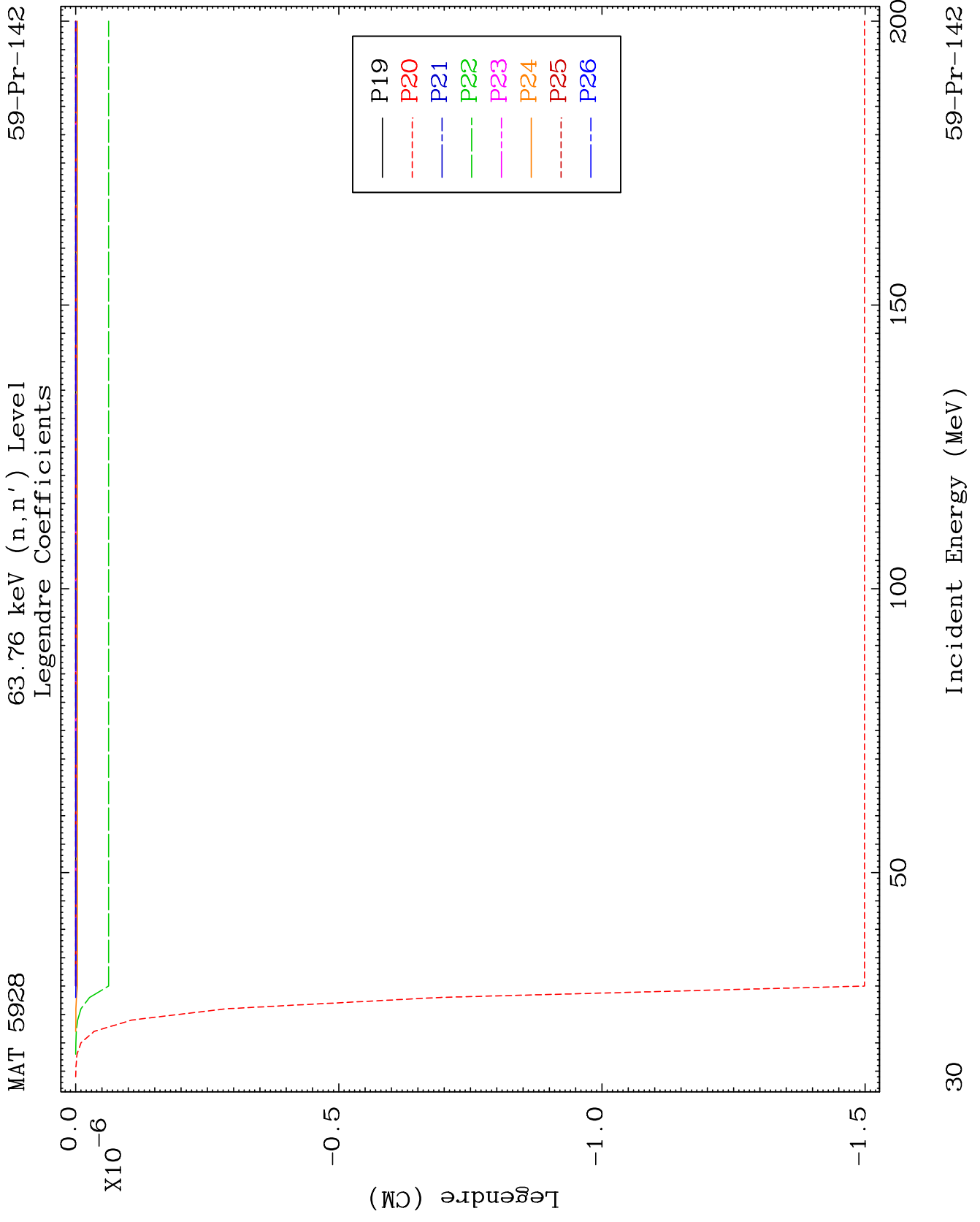
63.76 keV (n,n') Level  
Legendre Coefficients

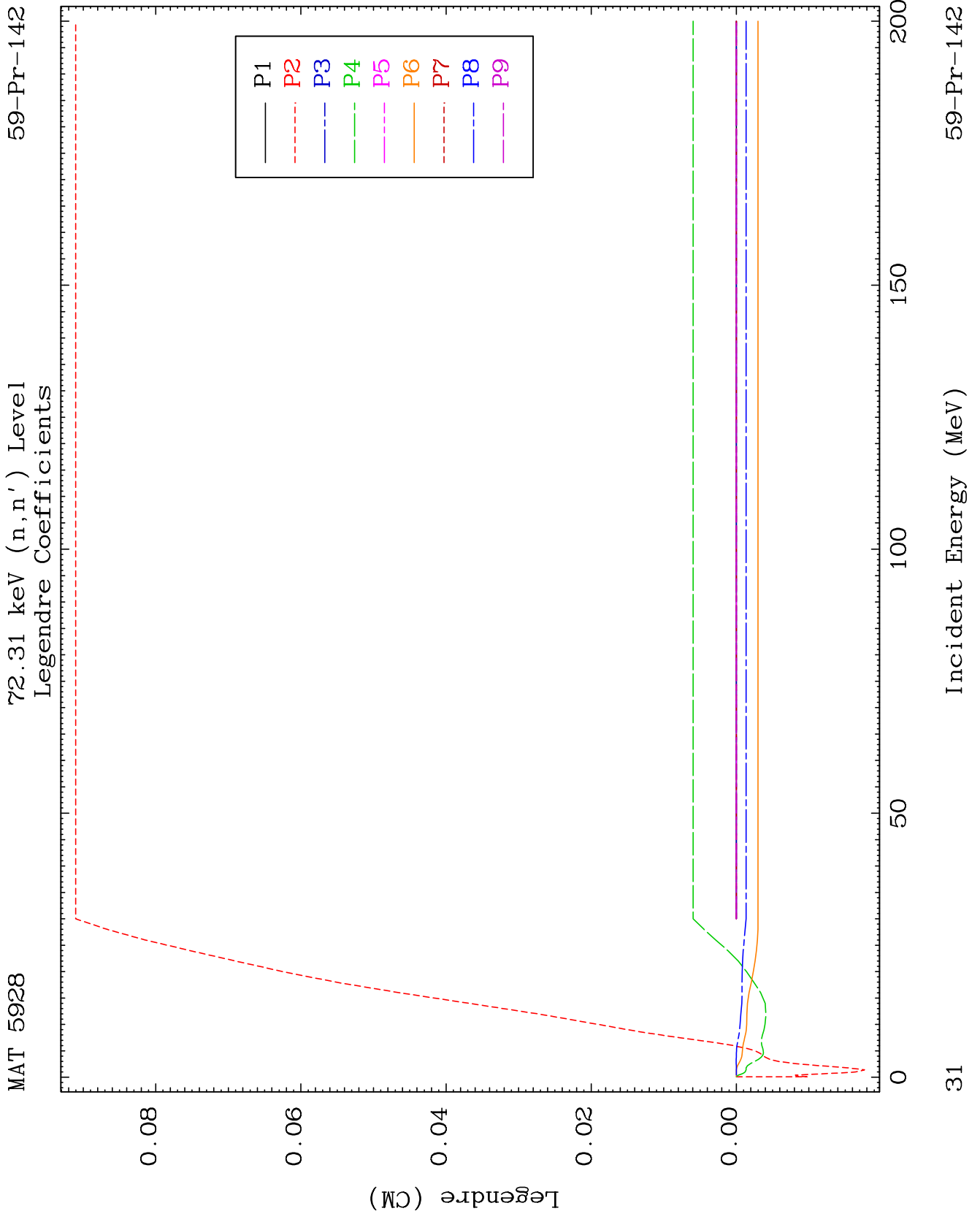
59-Pr-142



29

59-Pr-142



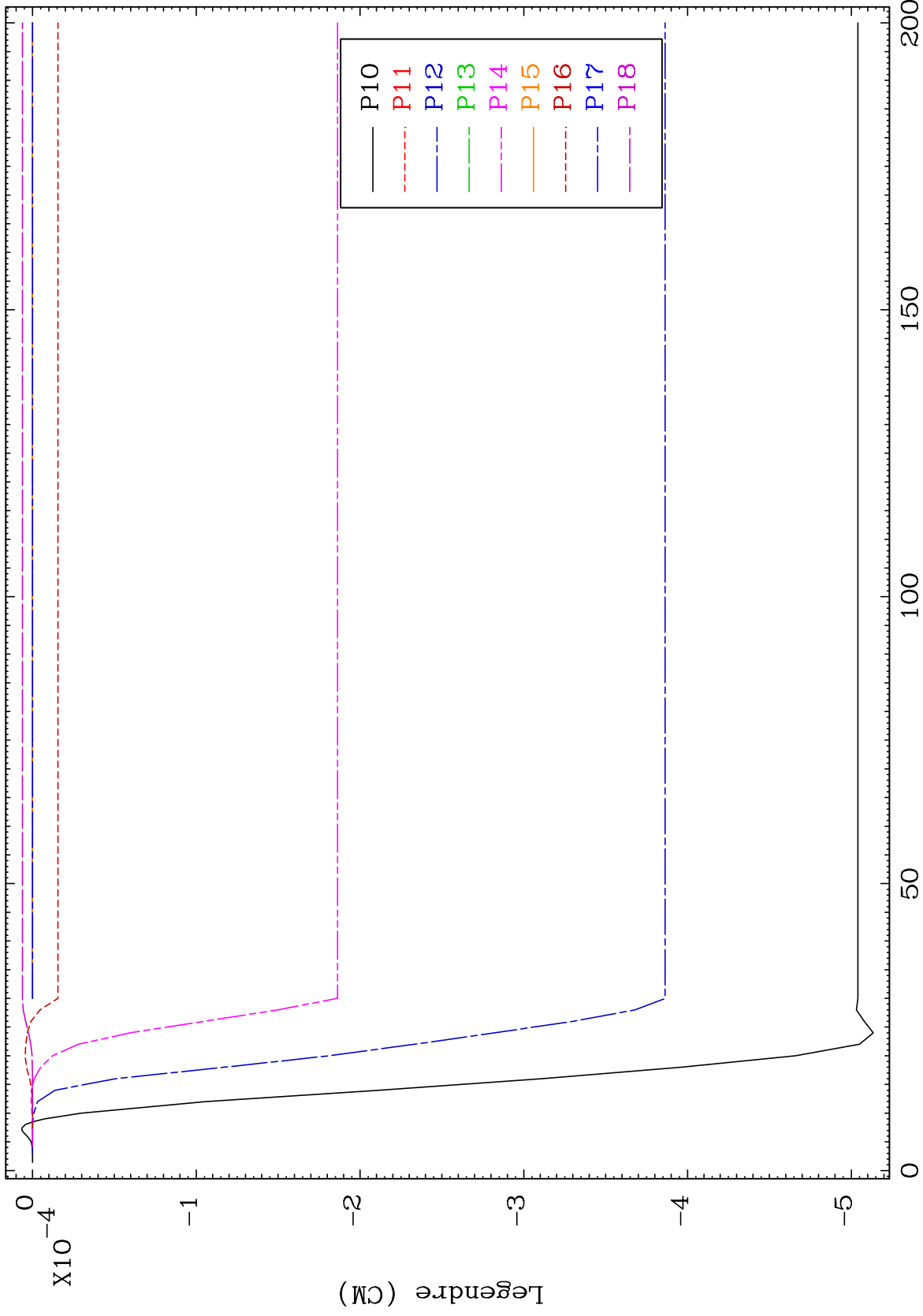




MAT 5928

72.31 keV (n,n') Level  
Legendre Coefficients

59-Pr-142



32

Incident Energy (MeV)

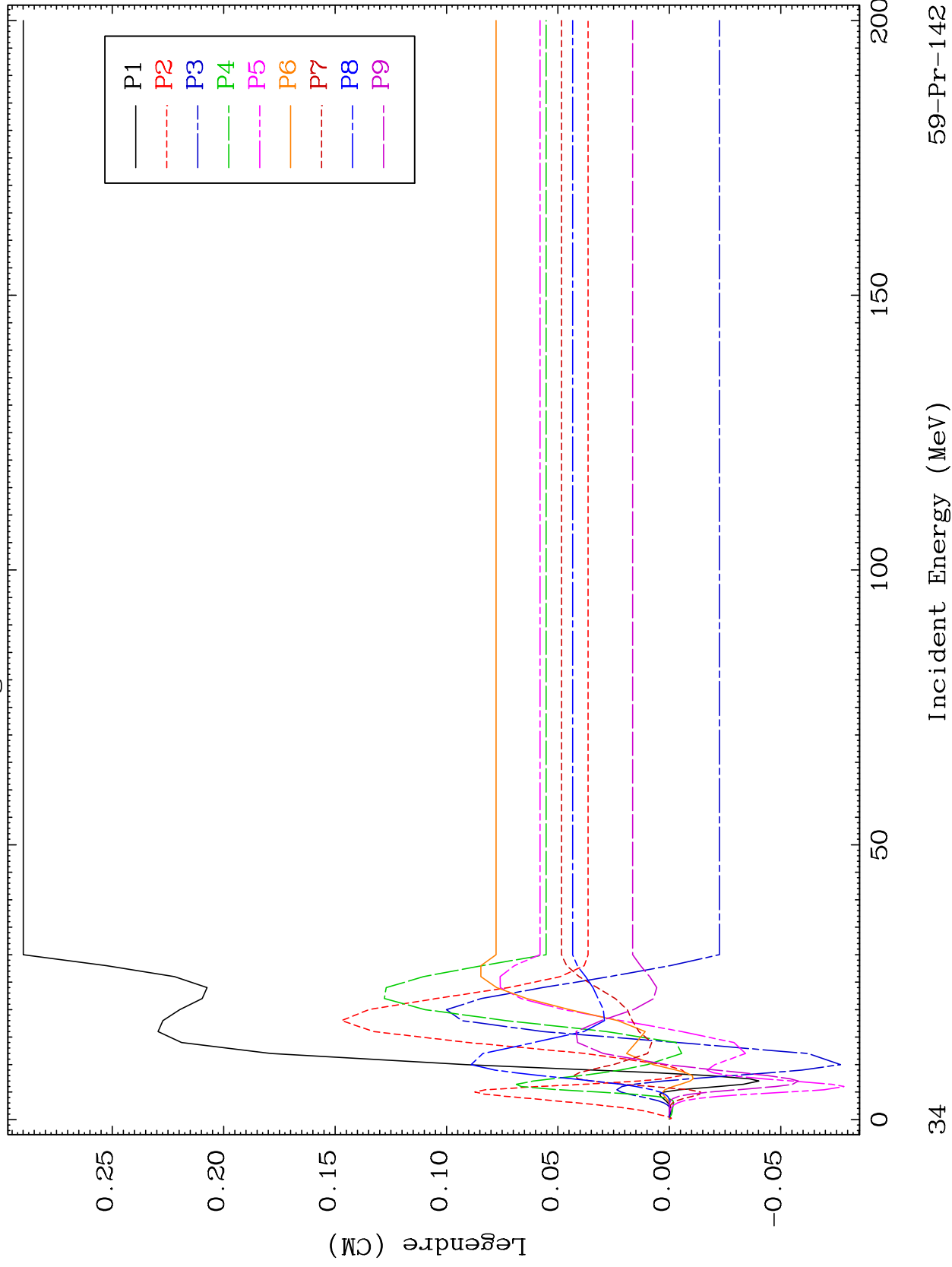
59-Pr-142



MAT 5928

85.00 keV (n,n') Level  
Legendre Coefficients

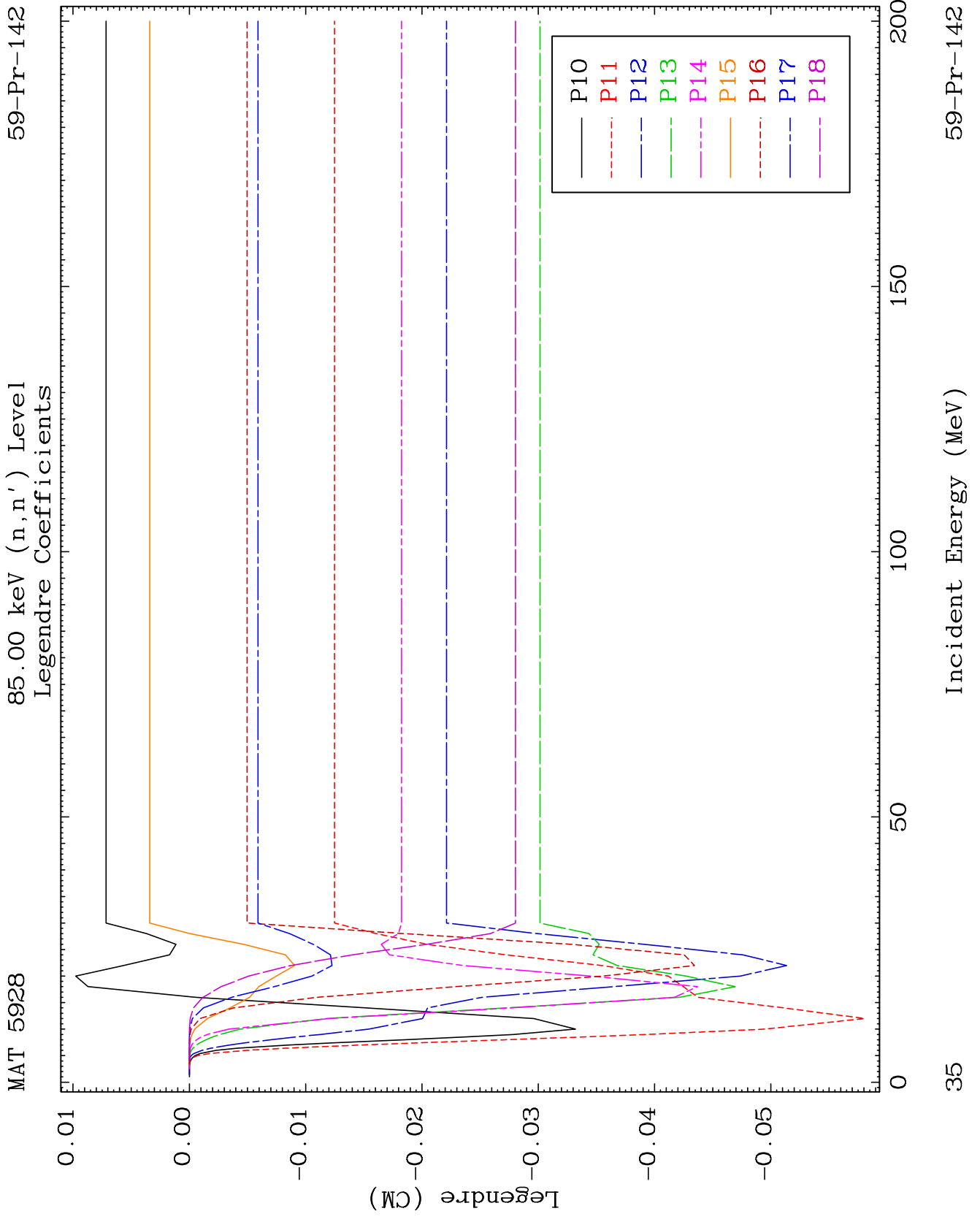
59-Pr-142

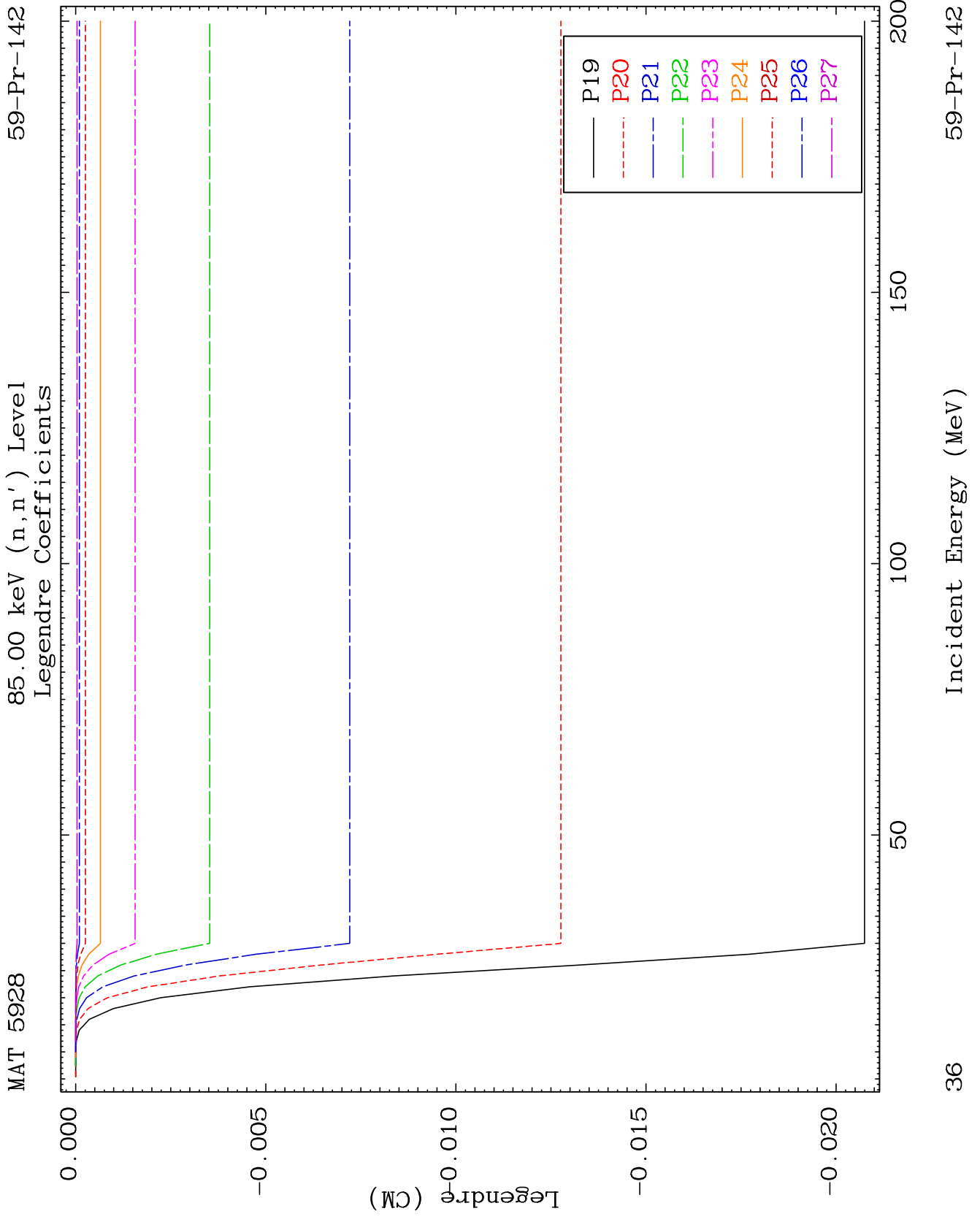


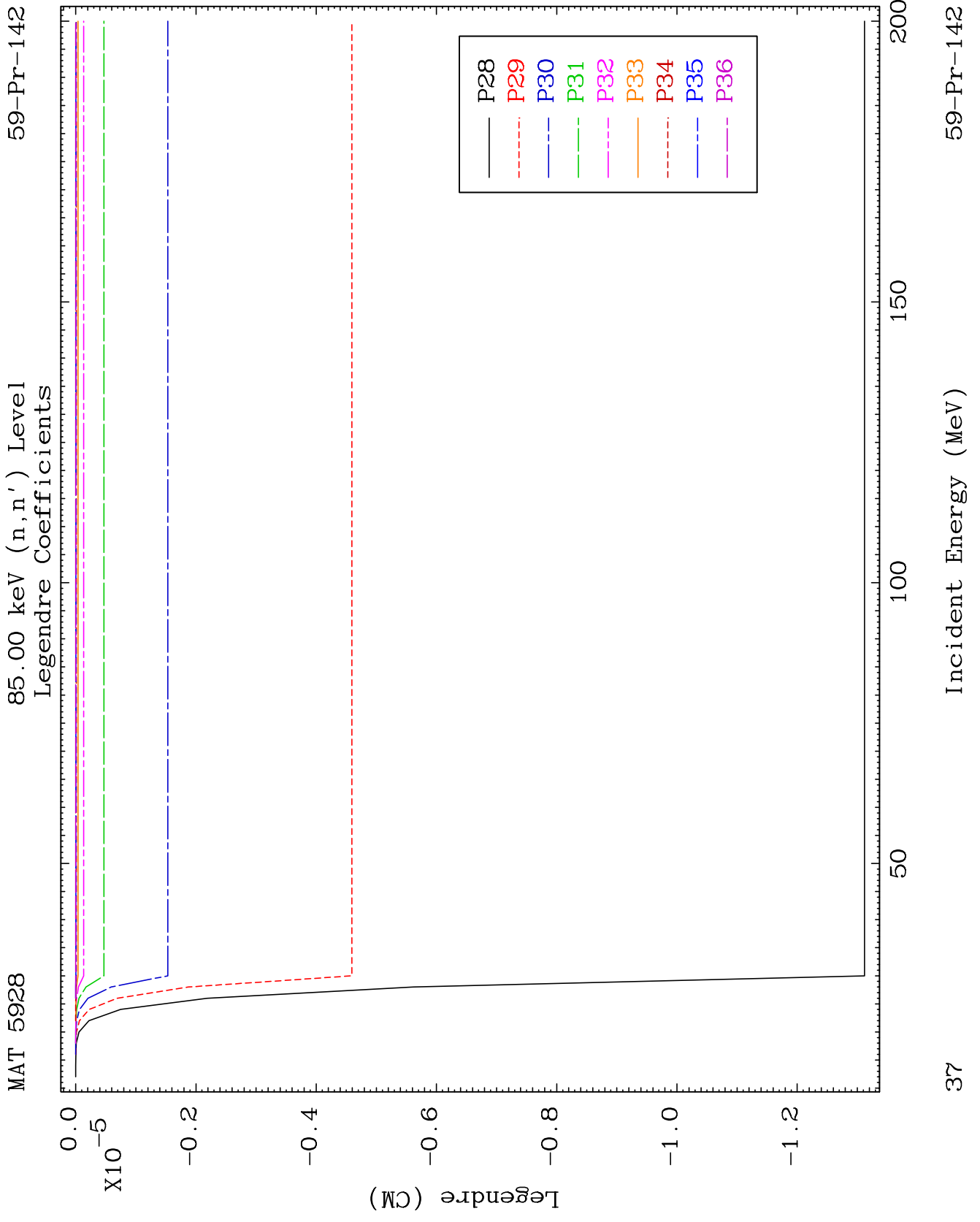
59-Pr-142

Incident Energy (MeV)

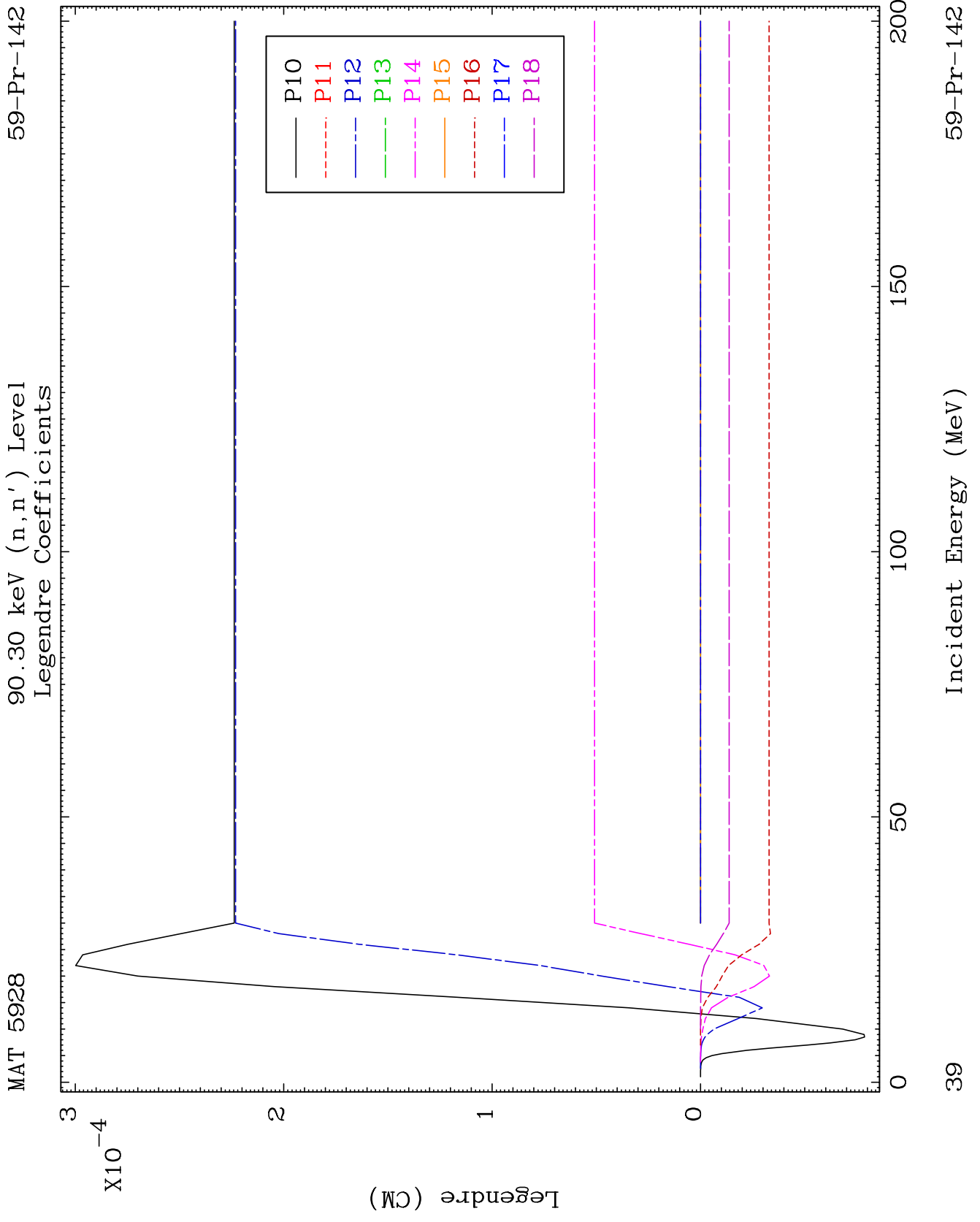
34



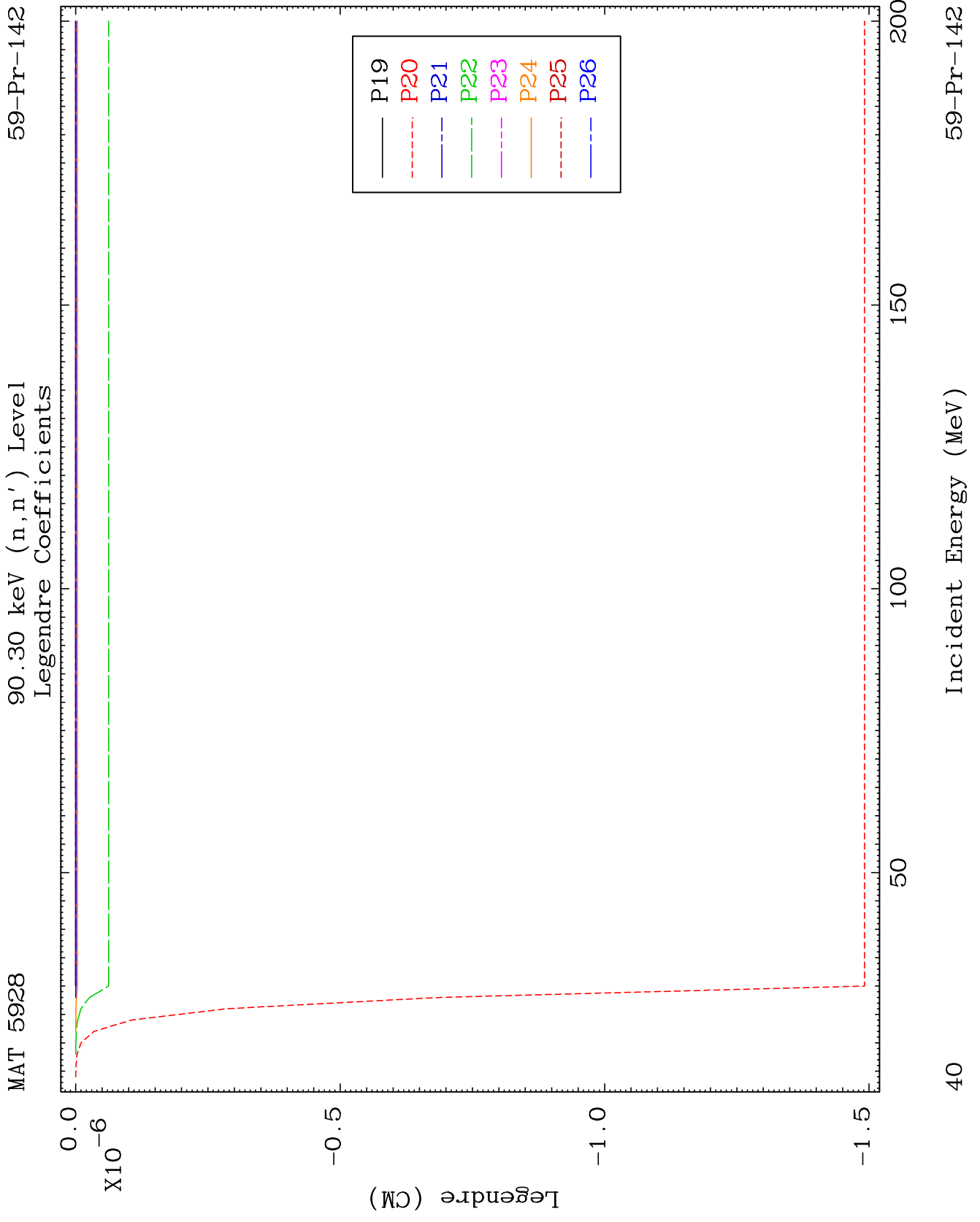








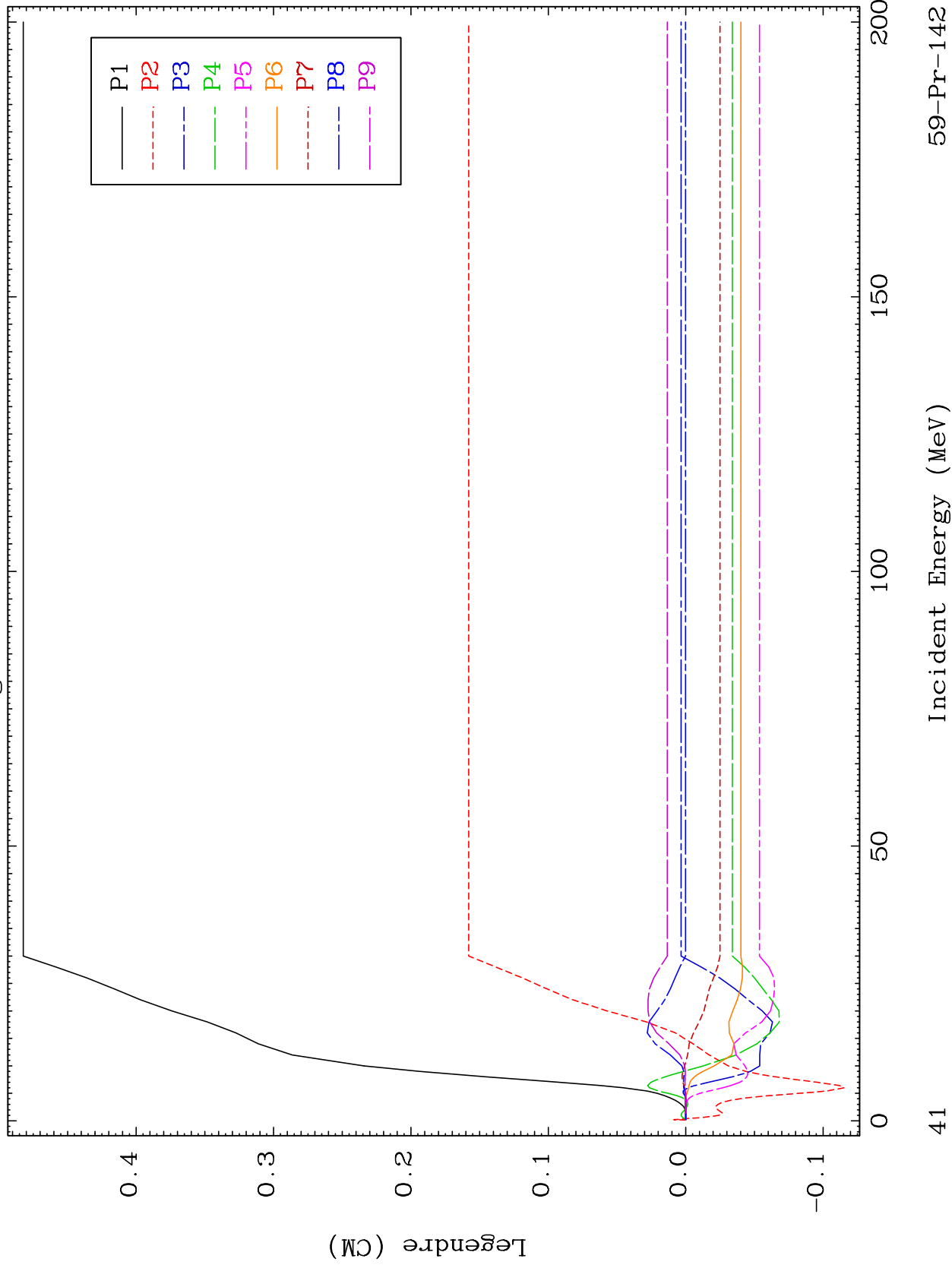




MAT 5928

128.3 keV (n,n') Level  
Legendre Coefficients

59-Pr-142



59-Pr-142

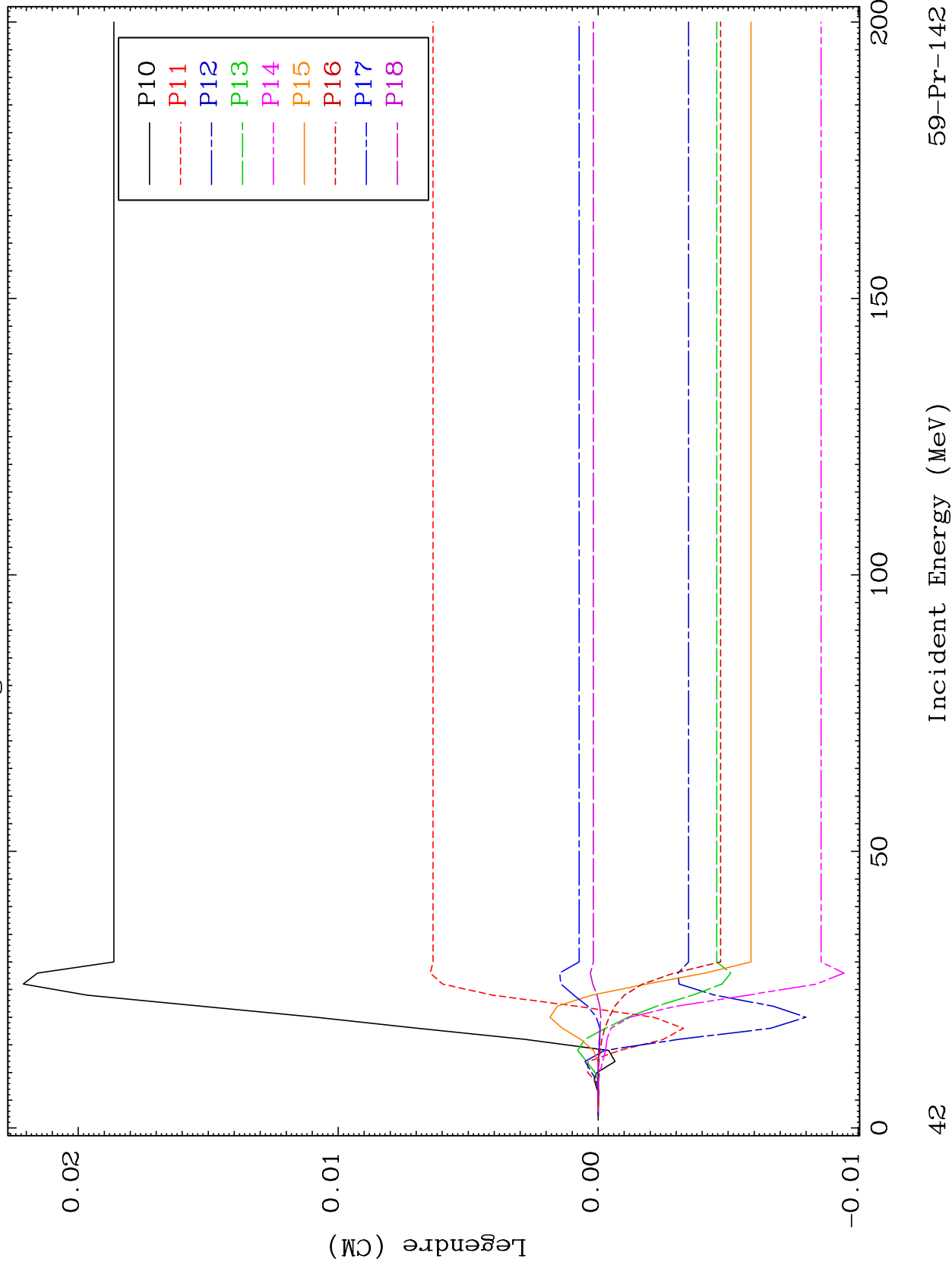
Incident Energy (MeV)

41

MAT 5928

128.3 keV (n,n') Level  
Legendre Coefficients

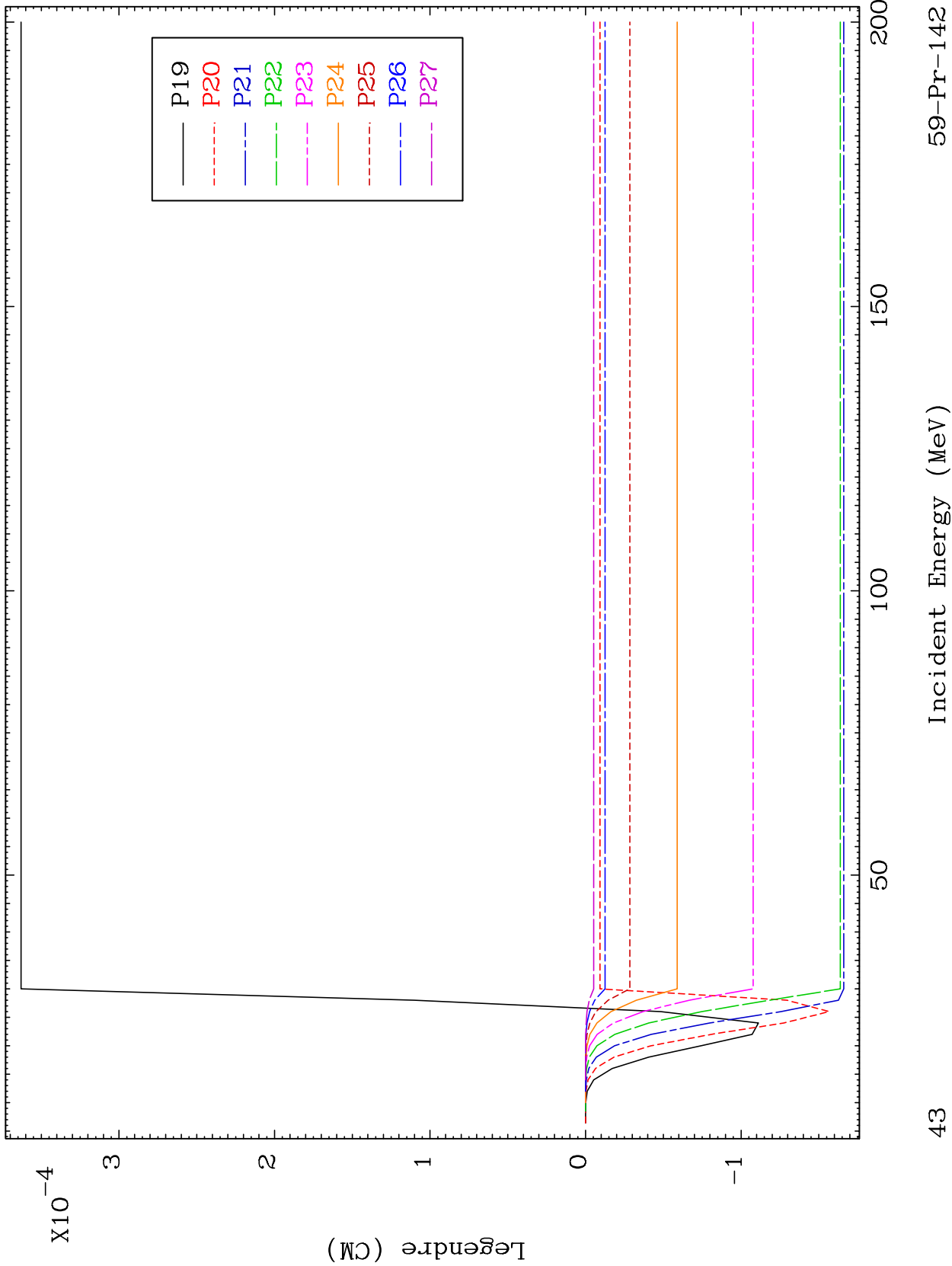
59-Pr-142

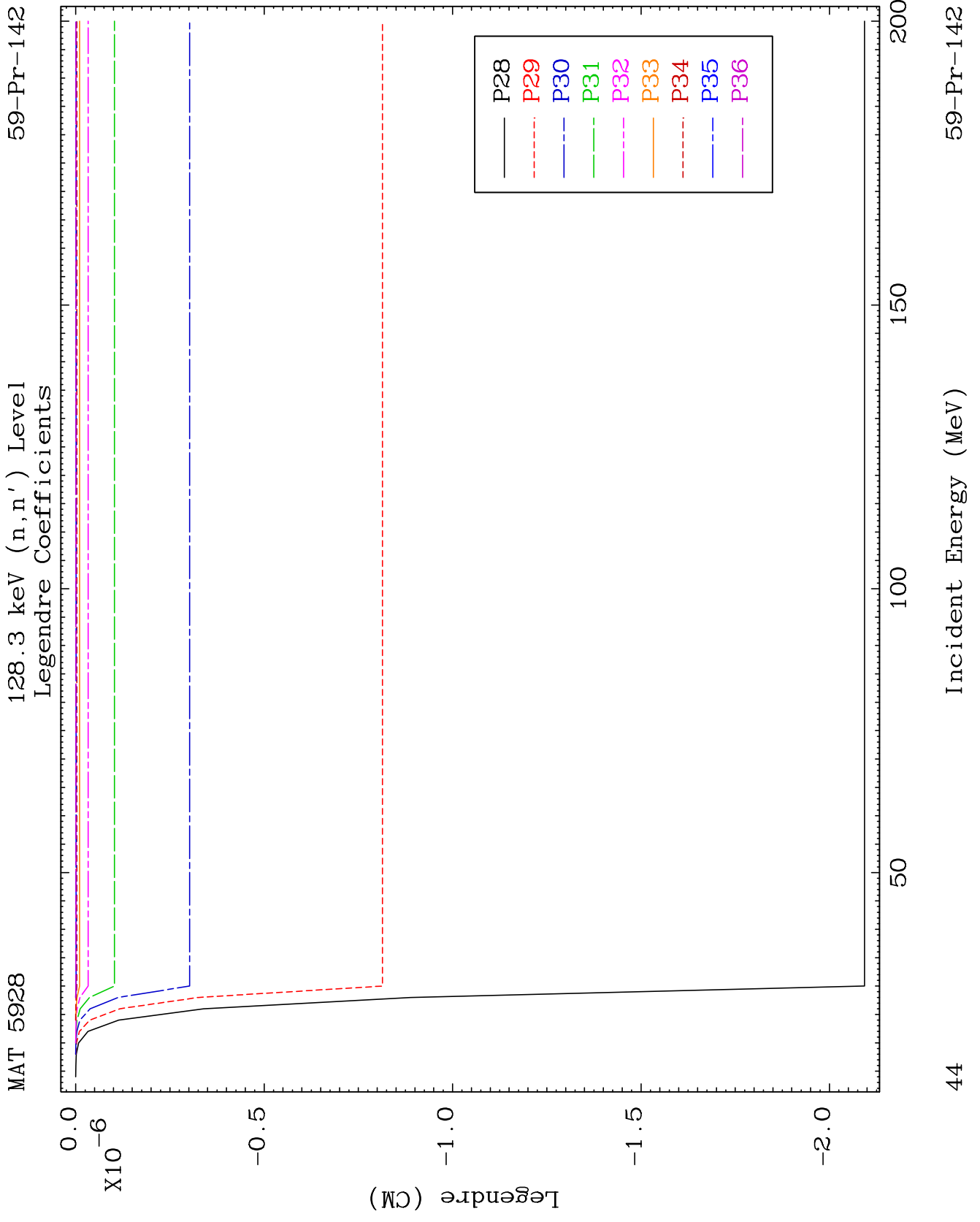


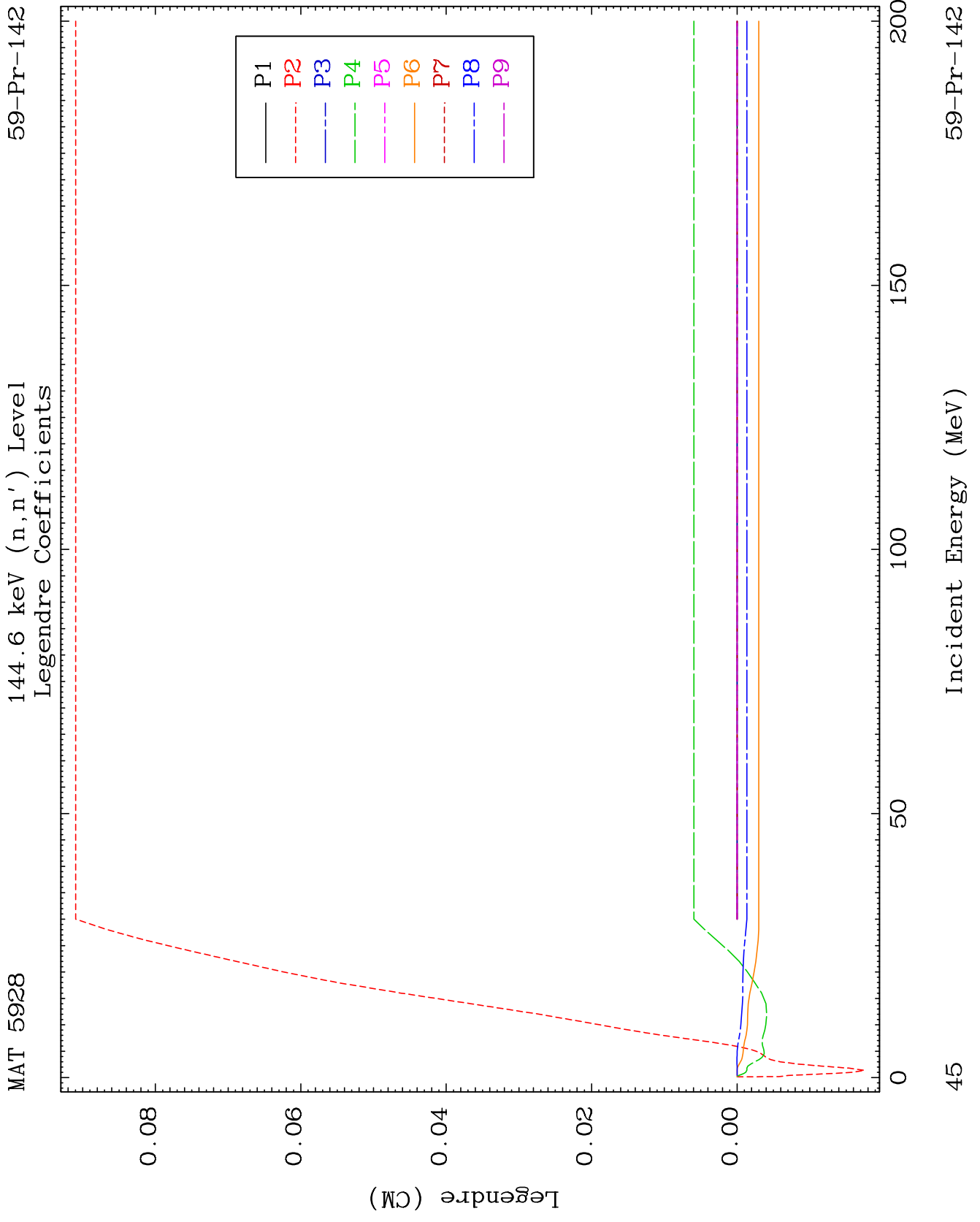
59-Pr-142

Incident Energy (MeV)

42





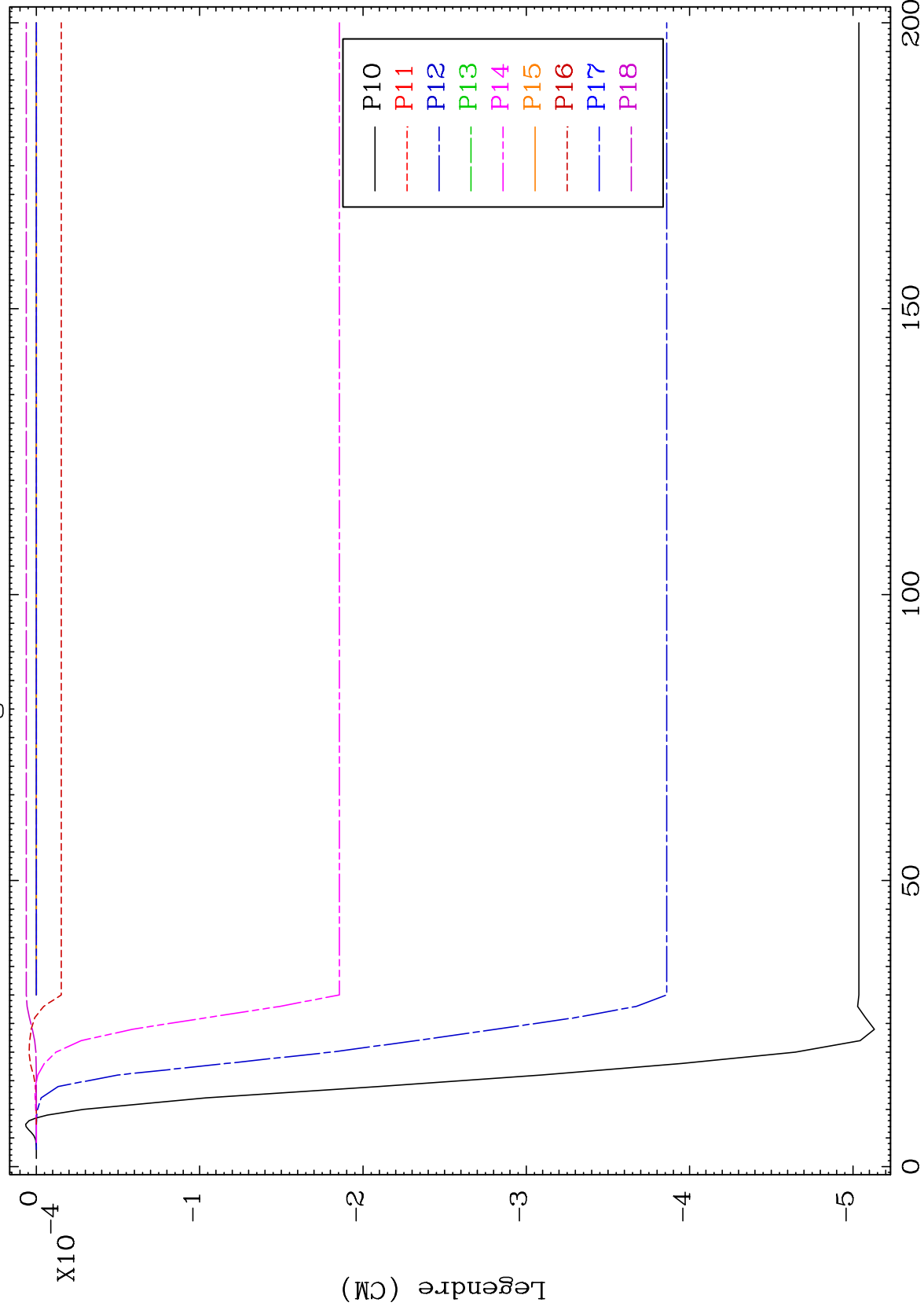


MAT 5928

144.6 keV (n, n') Level

59-Pr-142

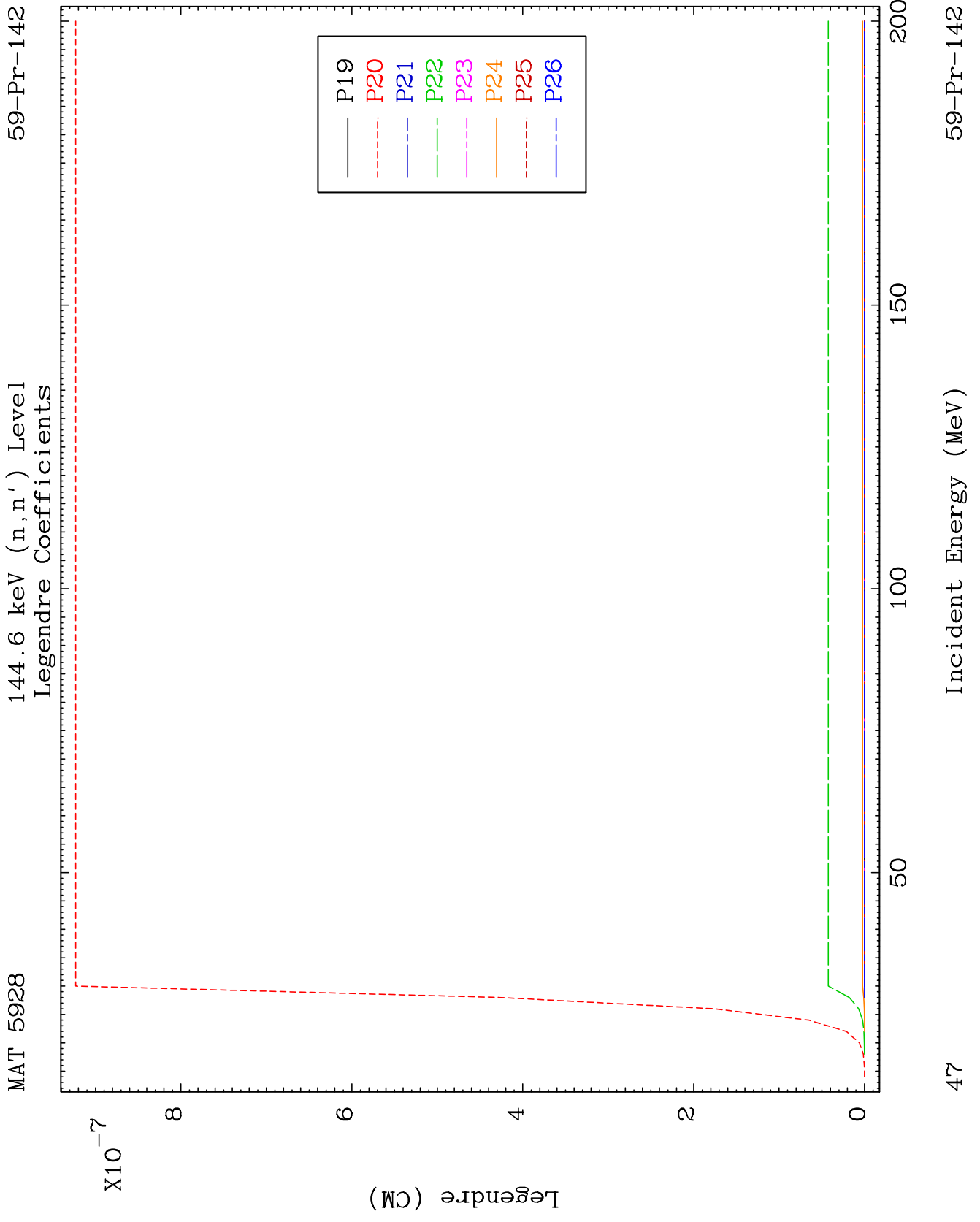
Legendre Coefficients



59-Pr-142

Incident Energy (MeV)

46

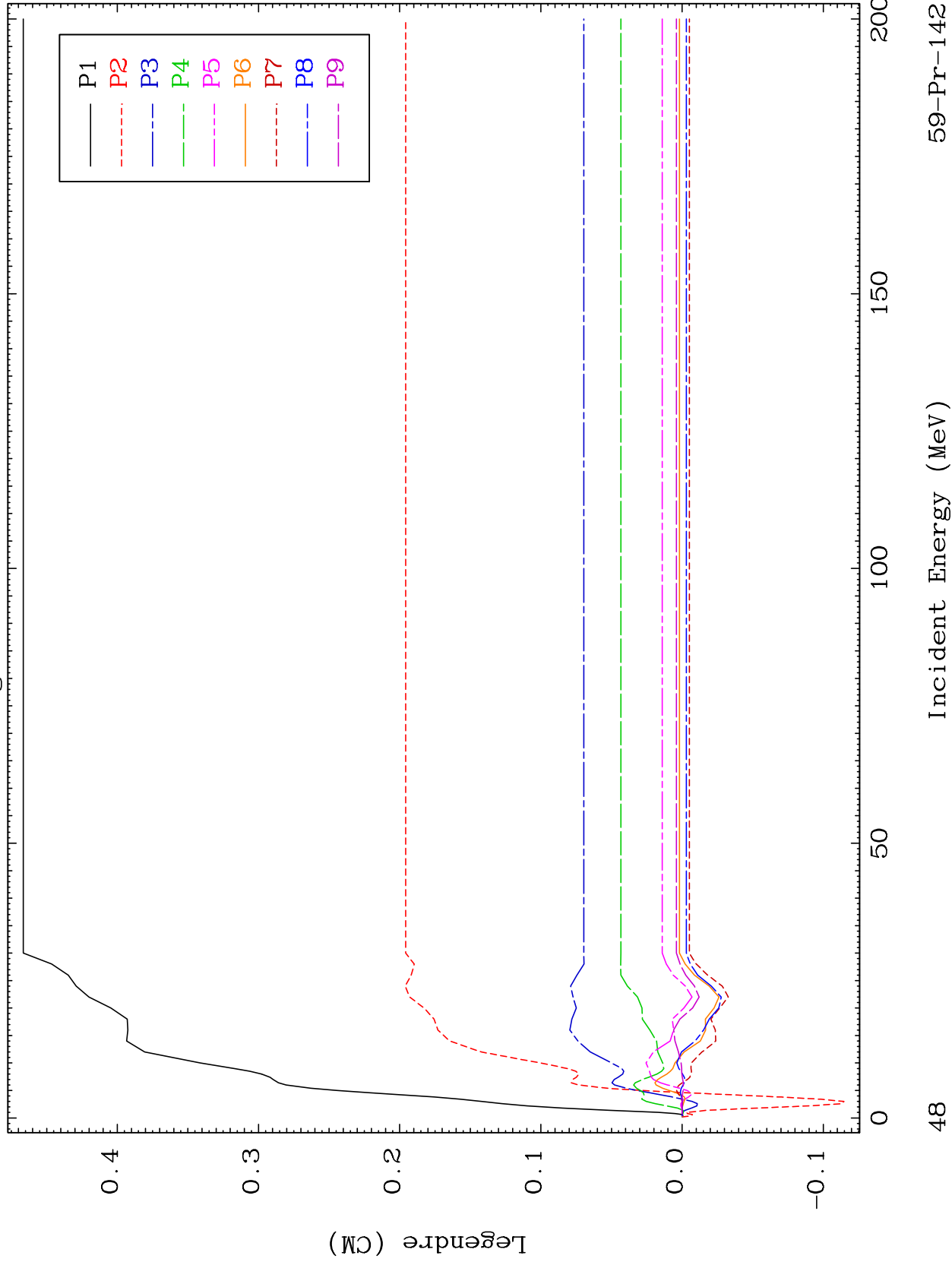




MAT 5928

153.5 keV (n,n') Level  
Legendre Coefficients

59-Pr-142



59-Pr-142

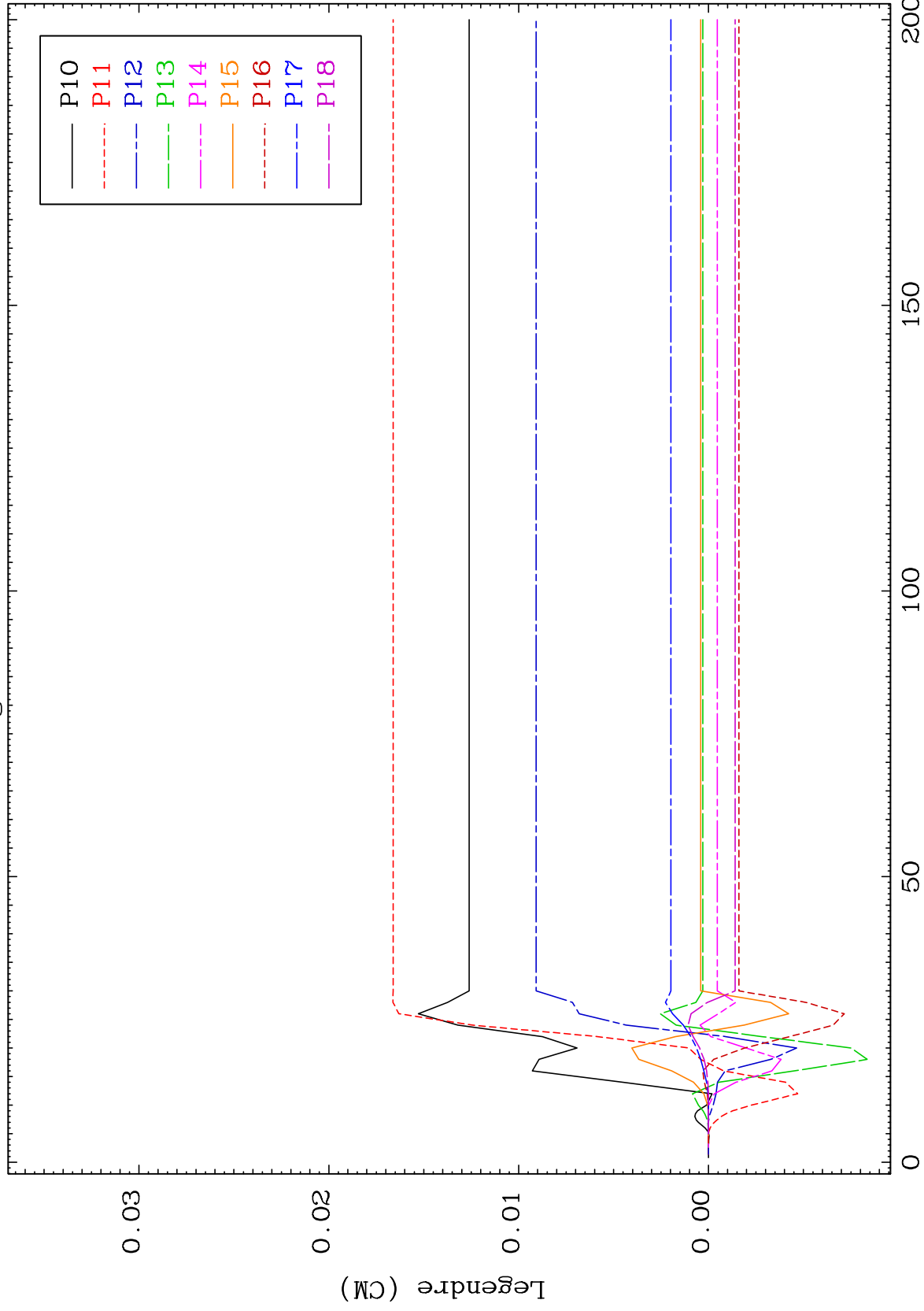
Incident Energy (MeV)

48

MAT 5928

153.5 keV (n,n') Level  
Legendre Coefficients

59-Pr-142



49

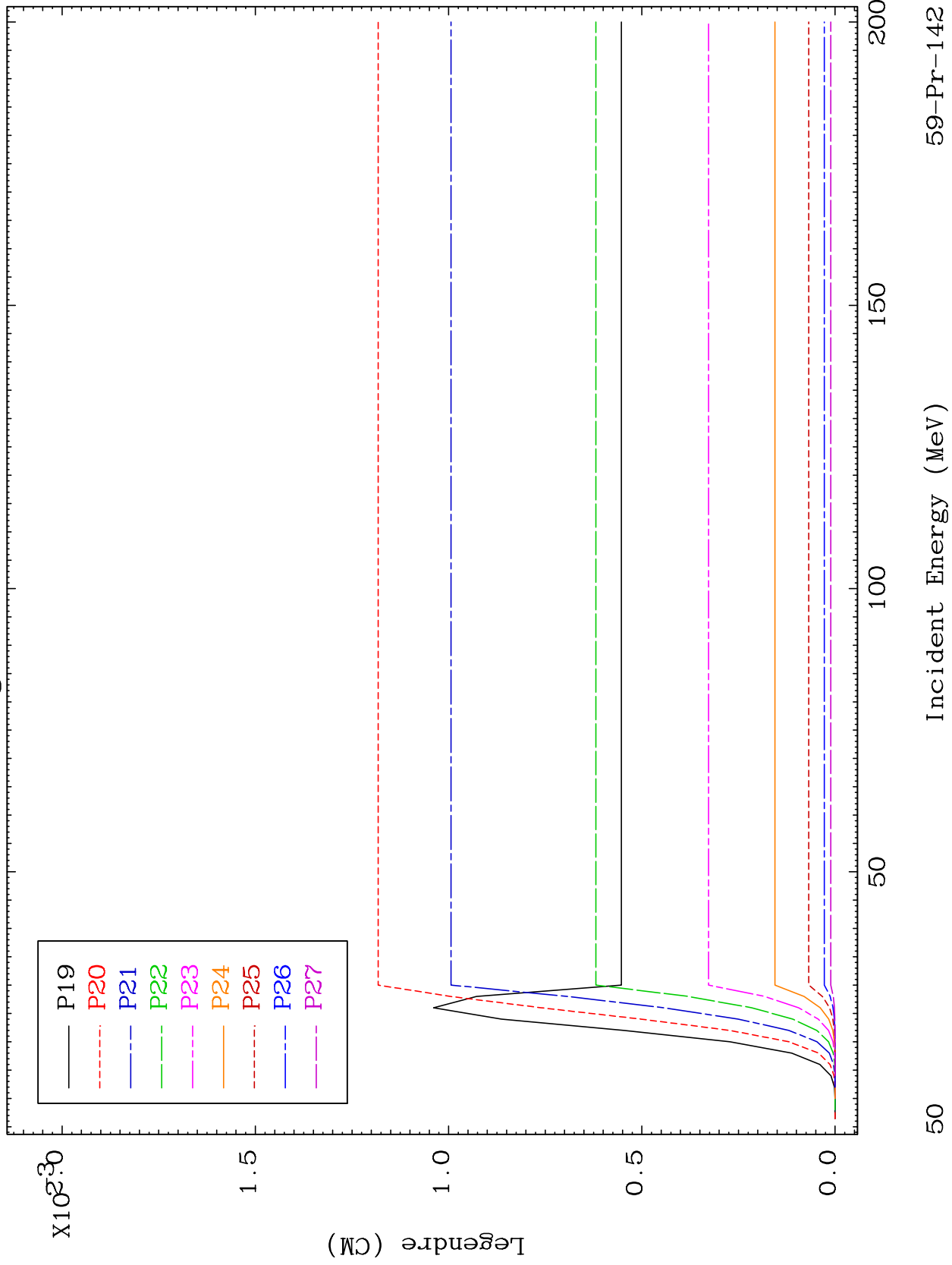
Incident Energy (MeV)

59-Pr-142

MAT 5928

153.5 keV (n, n') Level  
Legendre Coefficients

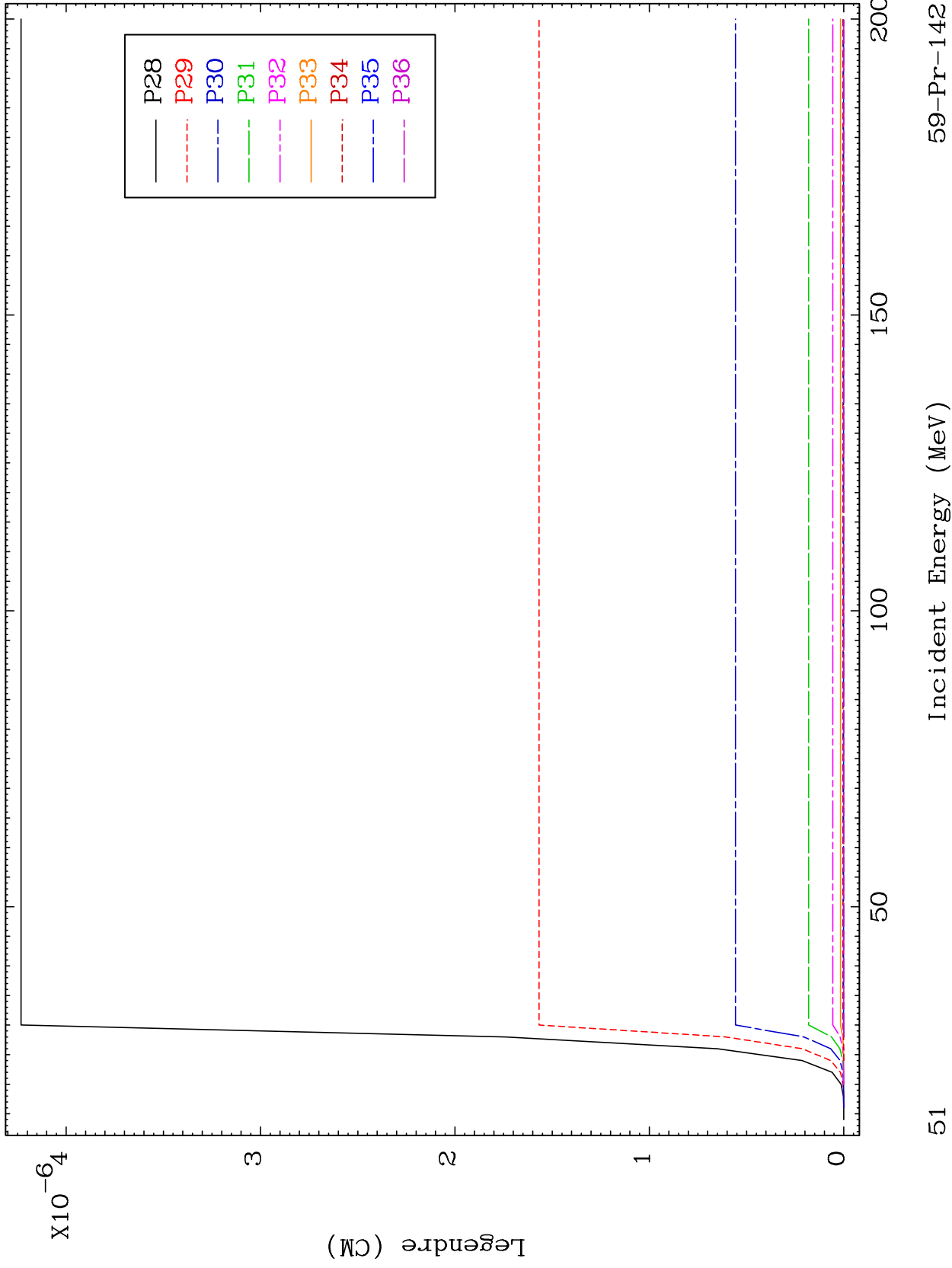
59-Pr-142



MAT 5928

153.5 keV (n, n') Level  
Legendre Coefficients

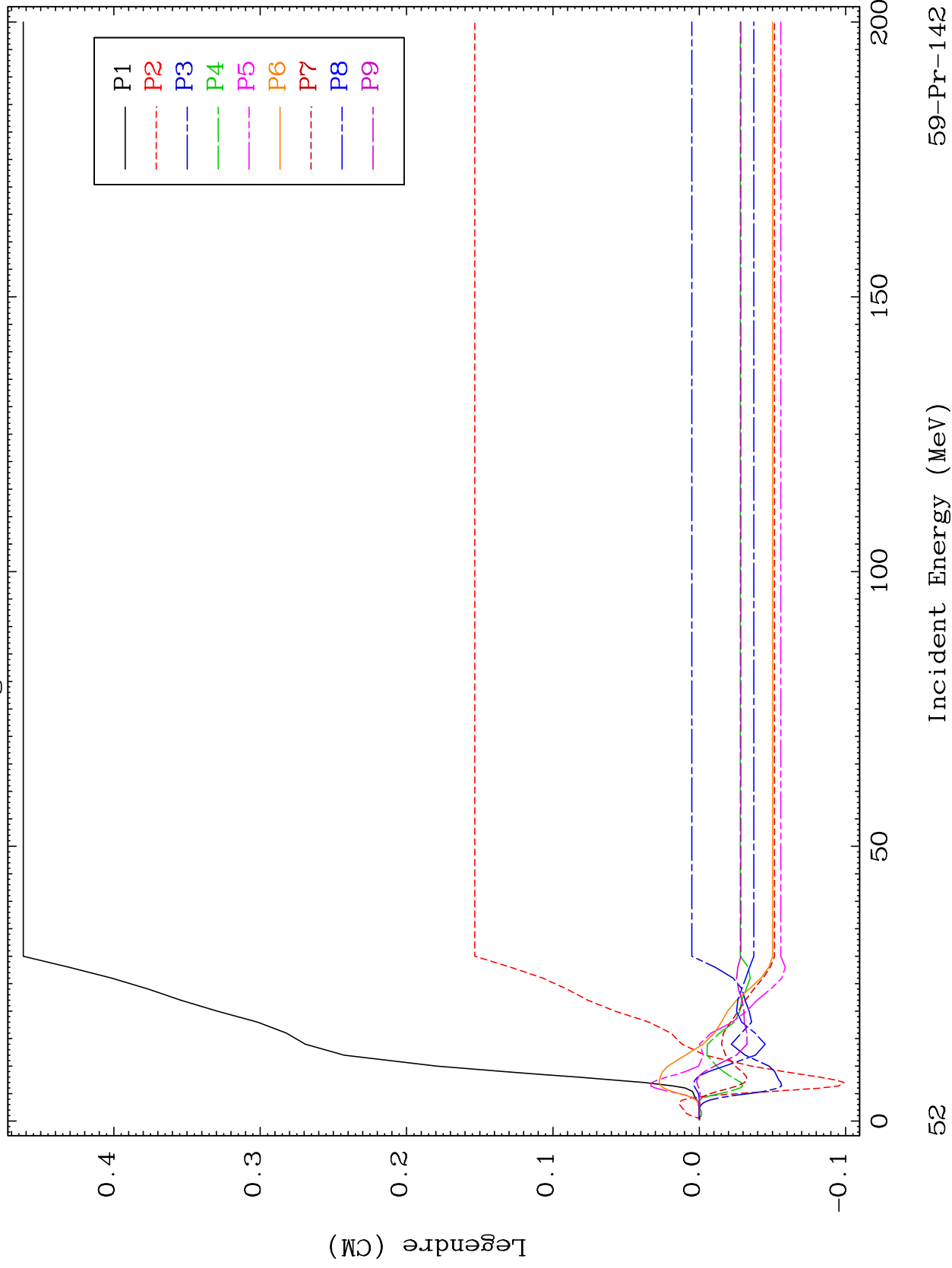
59-Pr-142



MAT 5928

176.9 keV (n,n') Level  
Legendre Coefficients

59-Pr-142



59-Pr-142

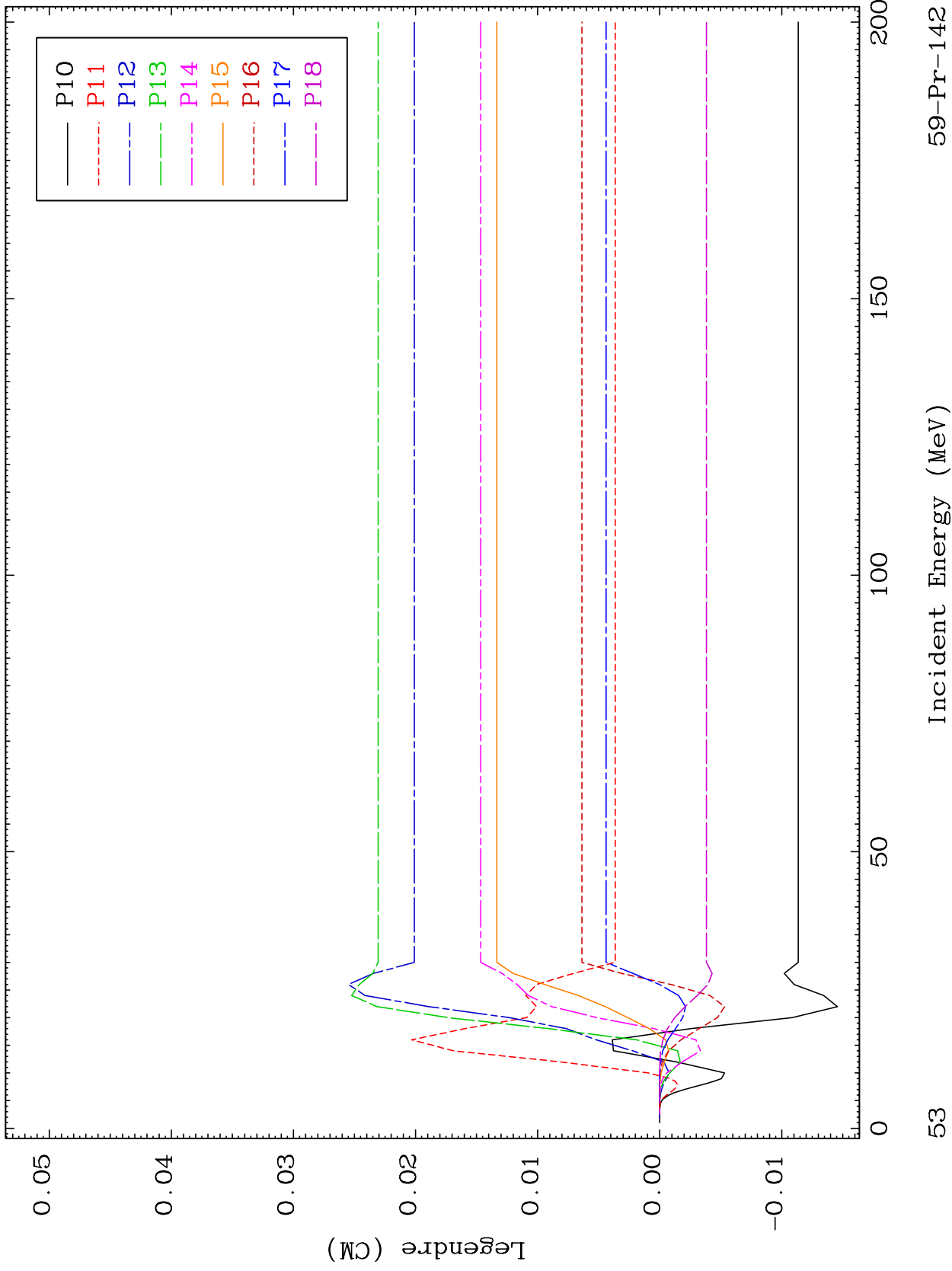
Incident Energy (MeV)

52

MAT 5928

176.9 keV (n,n') Level  
Legendre Coefficients

59-Pr-142



53

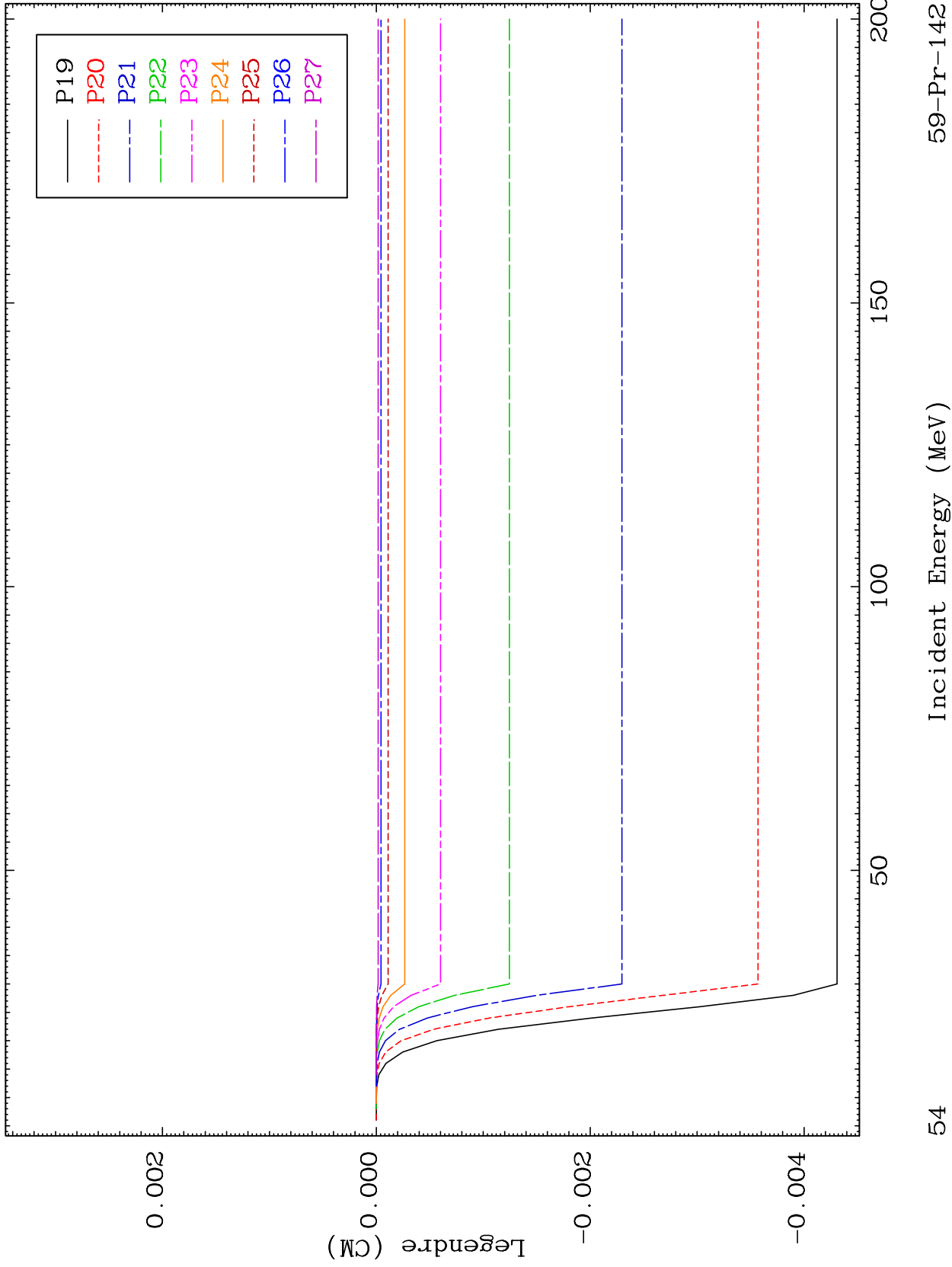
Incident Energy (MeV)

59-Pr-142

MAT 5928

176.9 keV (n,n') Level  
Legendre Coefficients

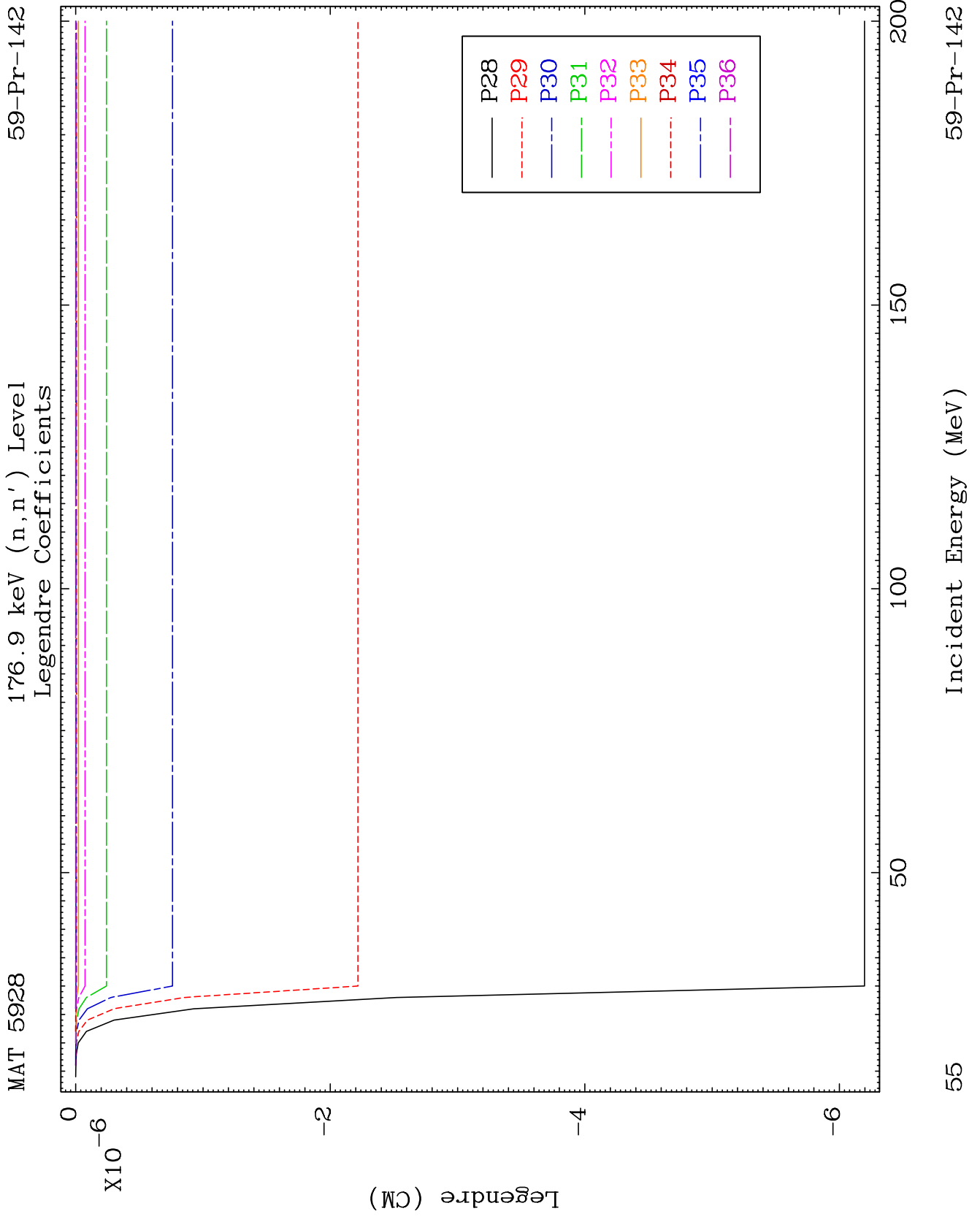
59-Pr-142



54

Incident Energy (MeV)

59-Pr-142



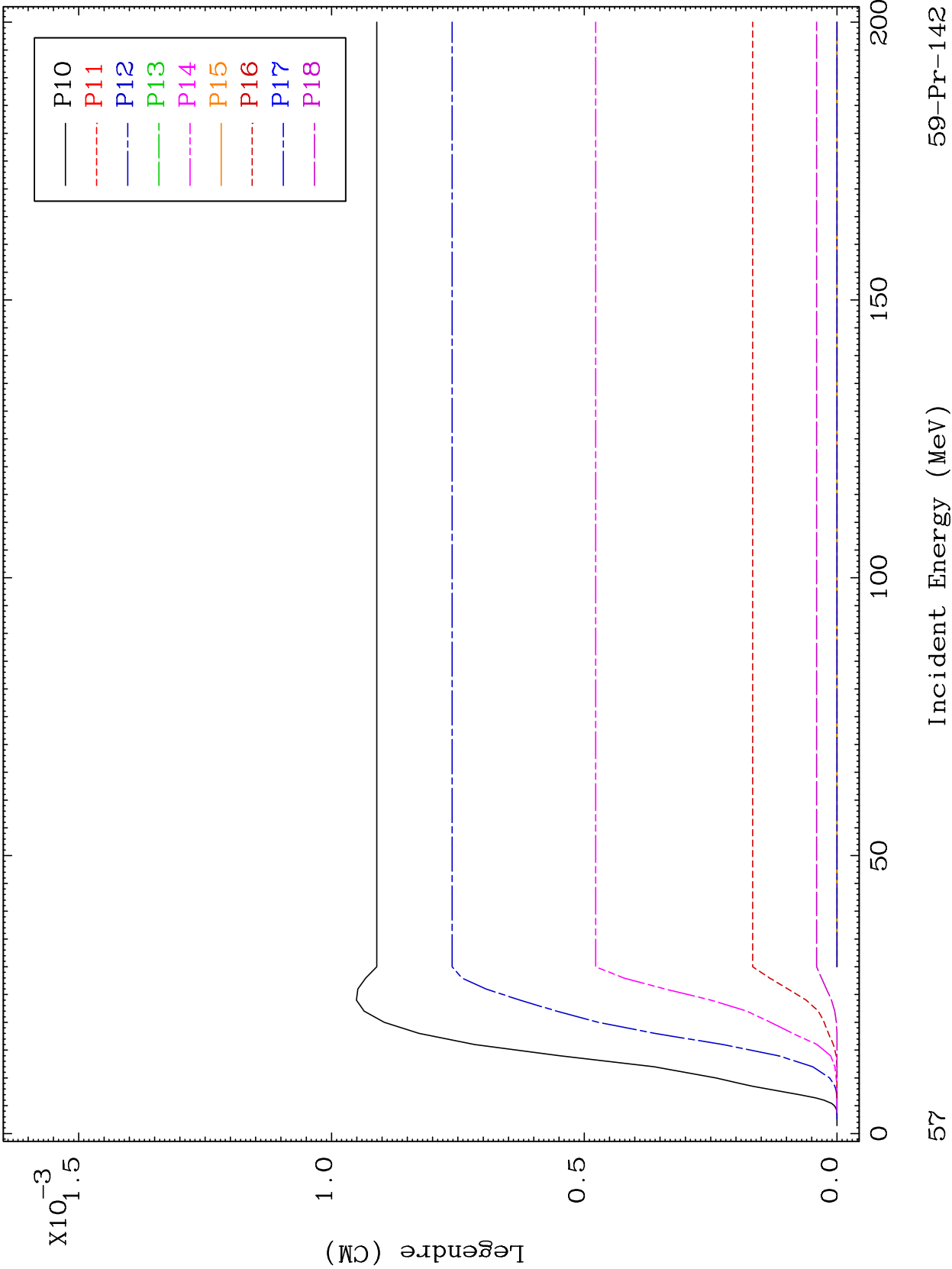




MAT 5928

200.5 keV (n,n') Level  
Legendre Coefficients

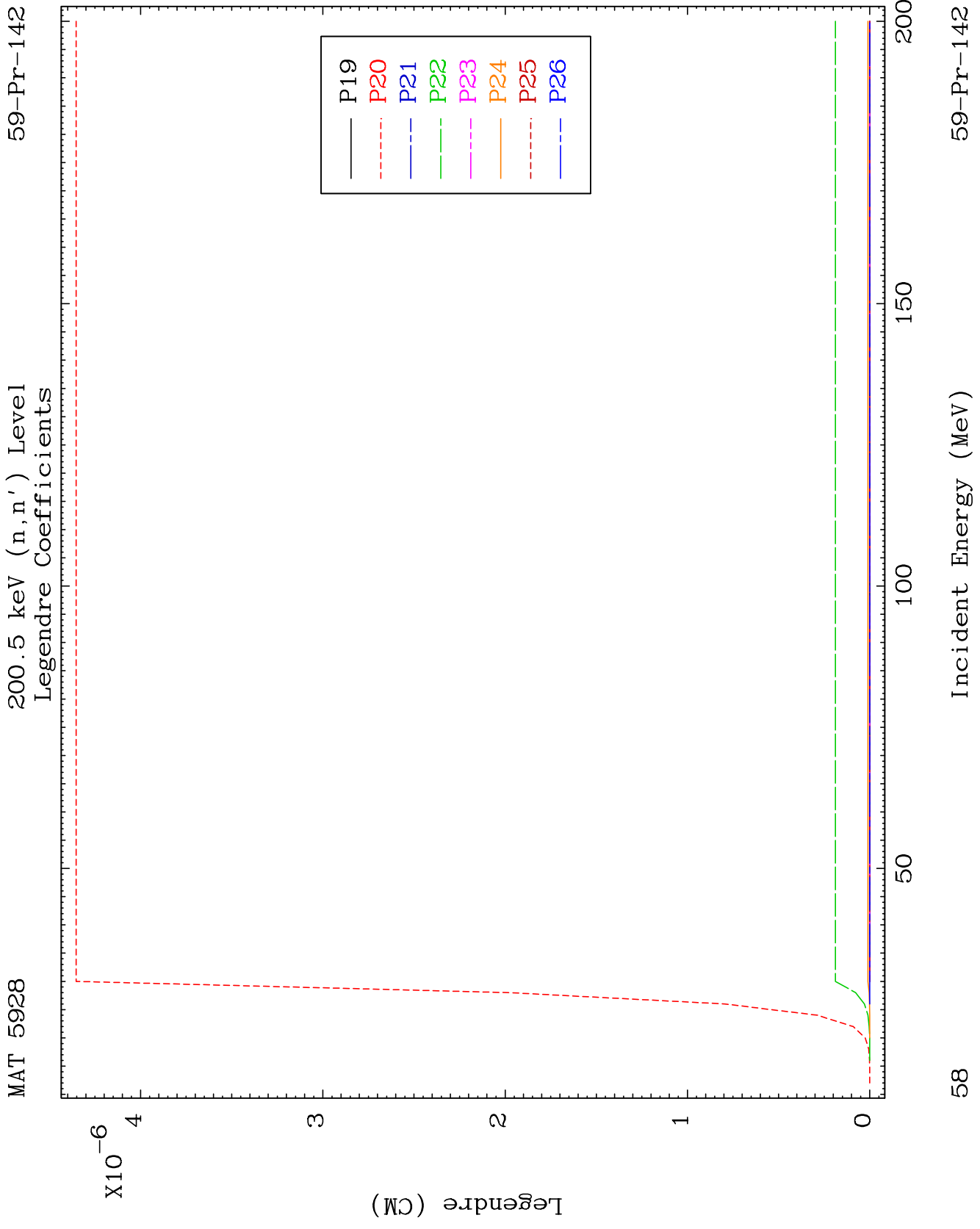
59-Pr-142



57

Incident Energy (MeV)

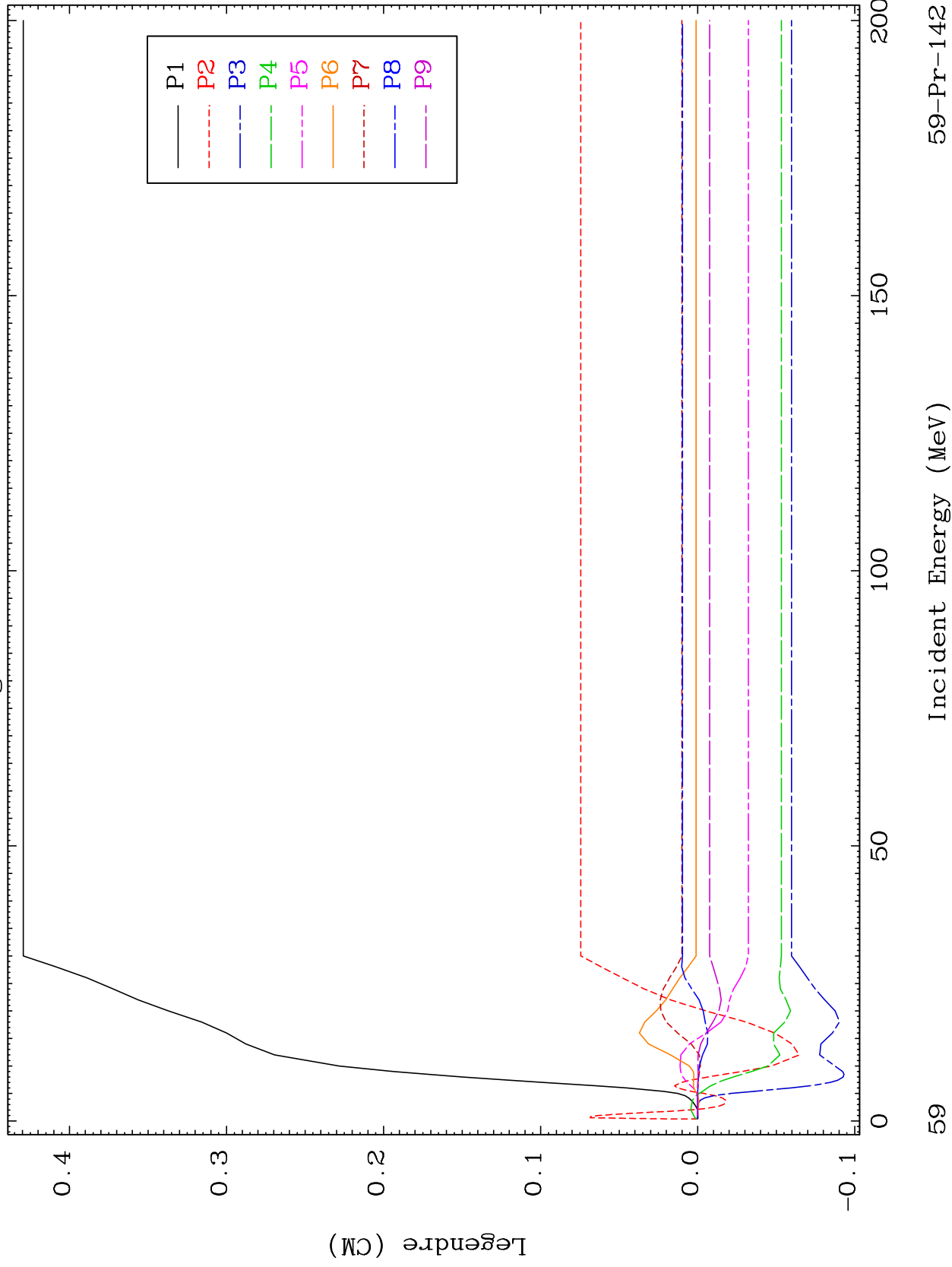
59-Pr-142



MAT 5928

358.4 keV (n,n') Level  
Legendre Coefficients

59-Pr-142



59-Pr-142

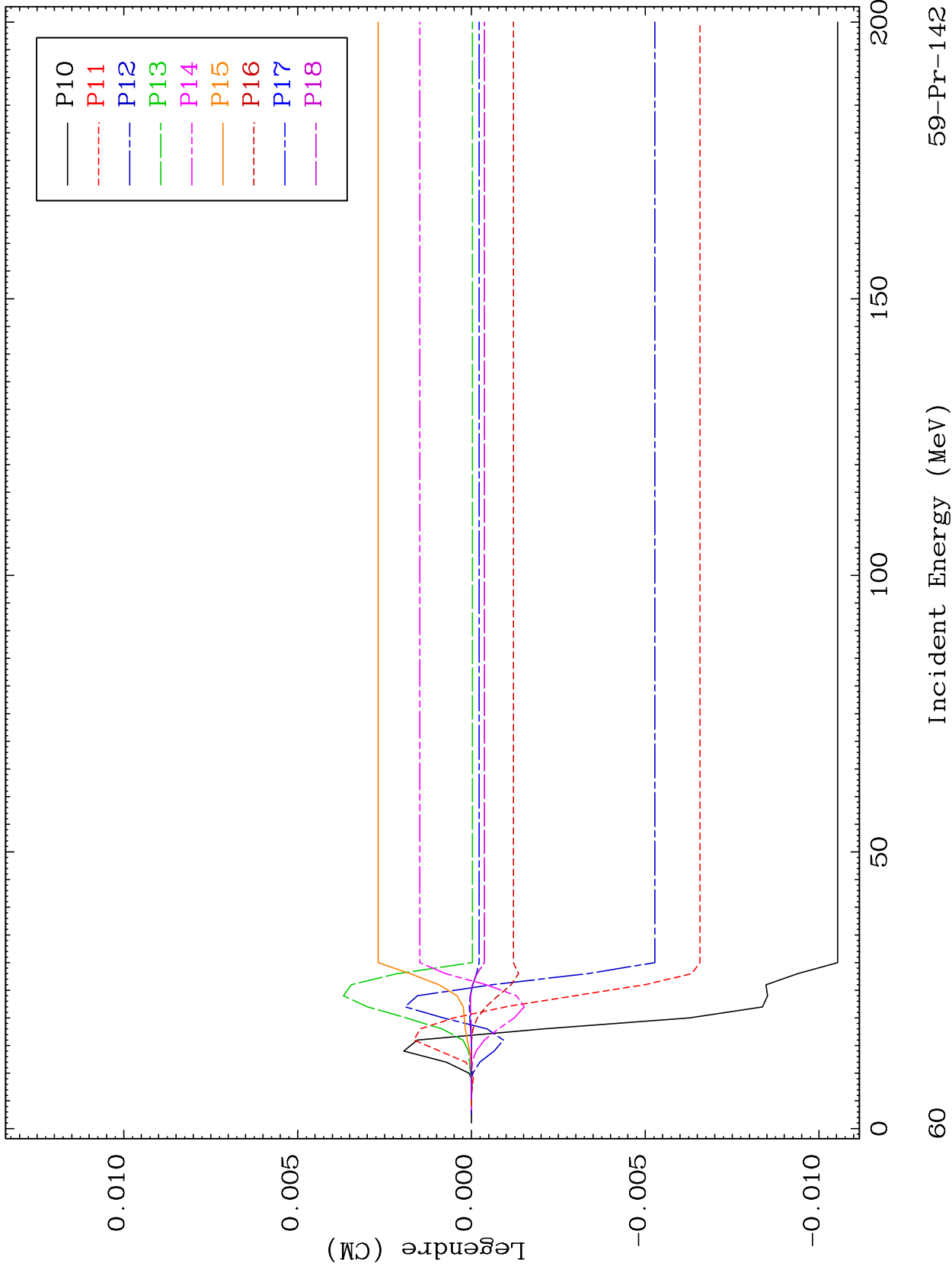
Incident Energy (MeV)

59

MAT 5928

358.4 keV (n,n') Level  
Legendre Coefficients

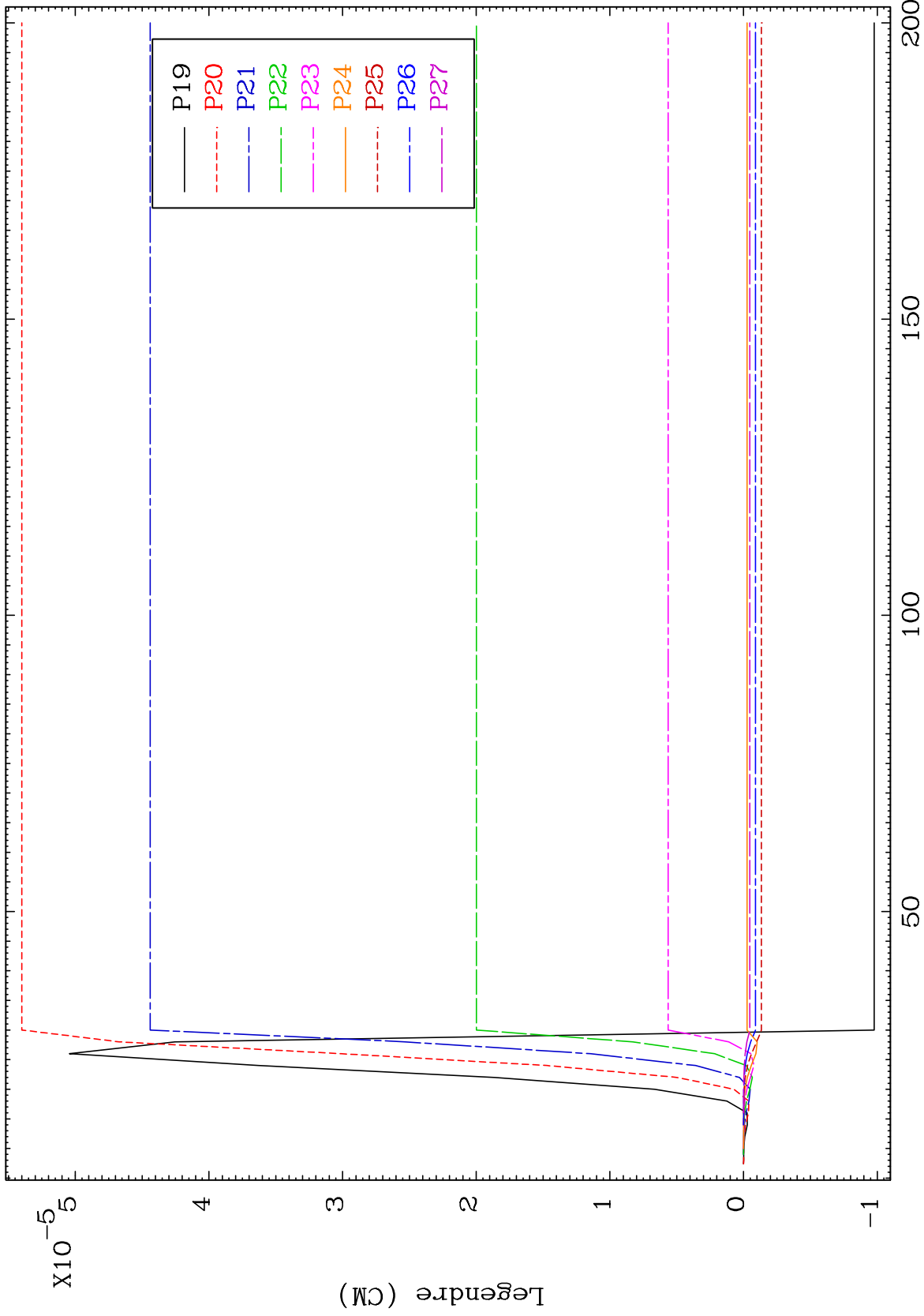
59-Pr-142

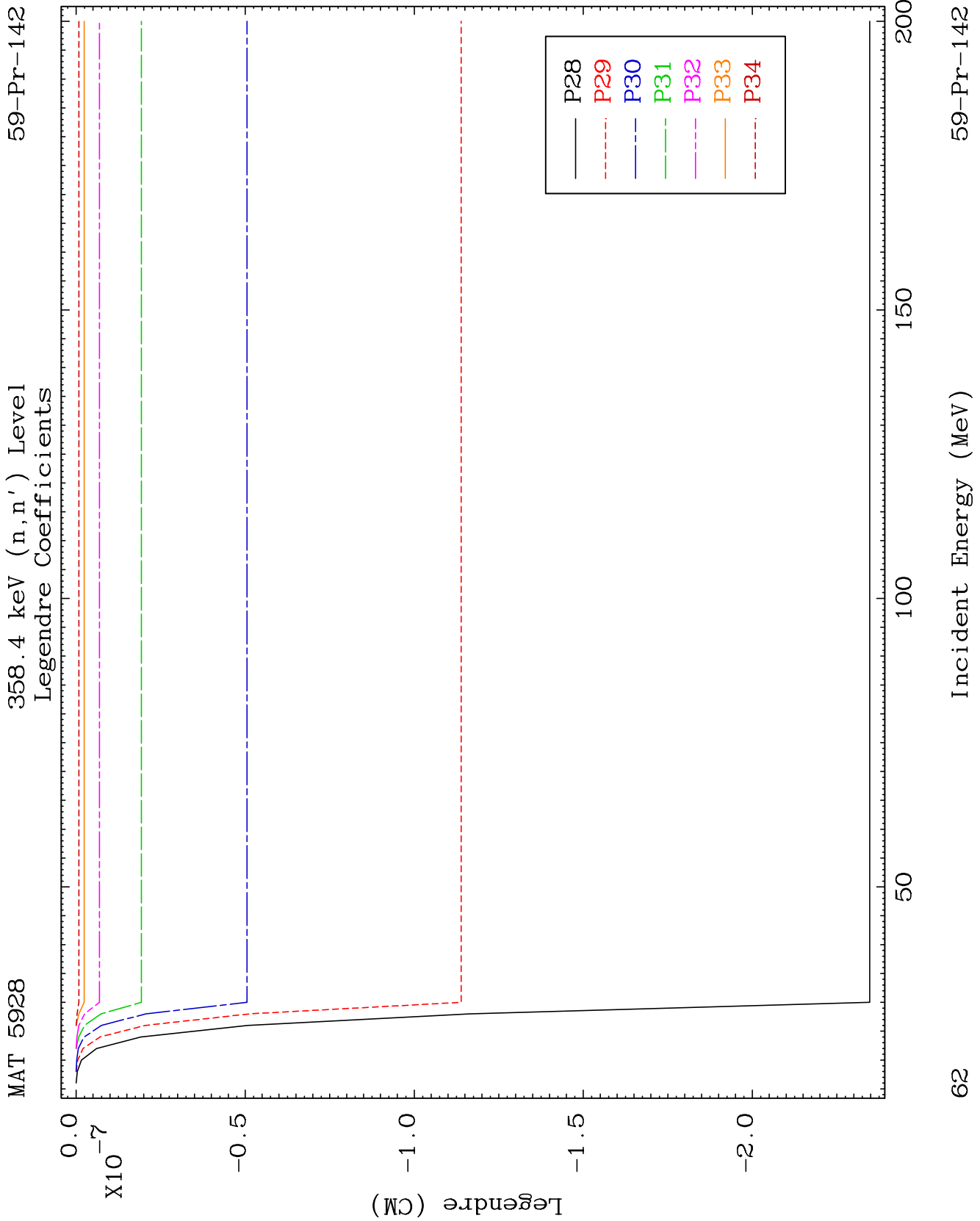


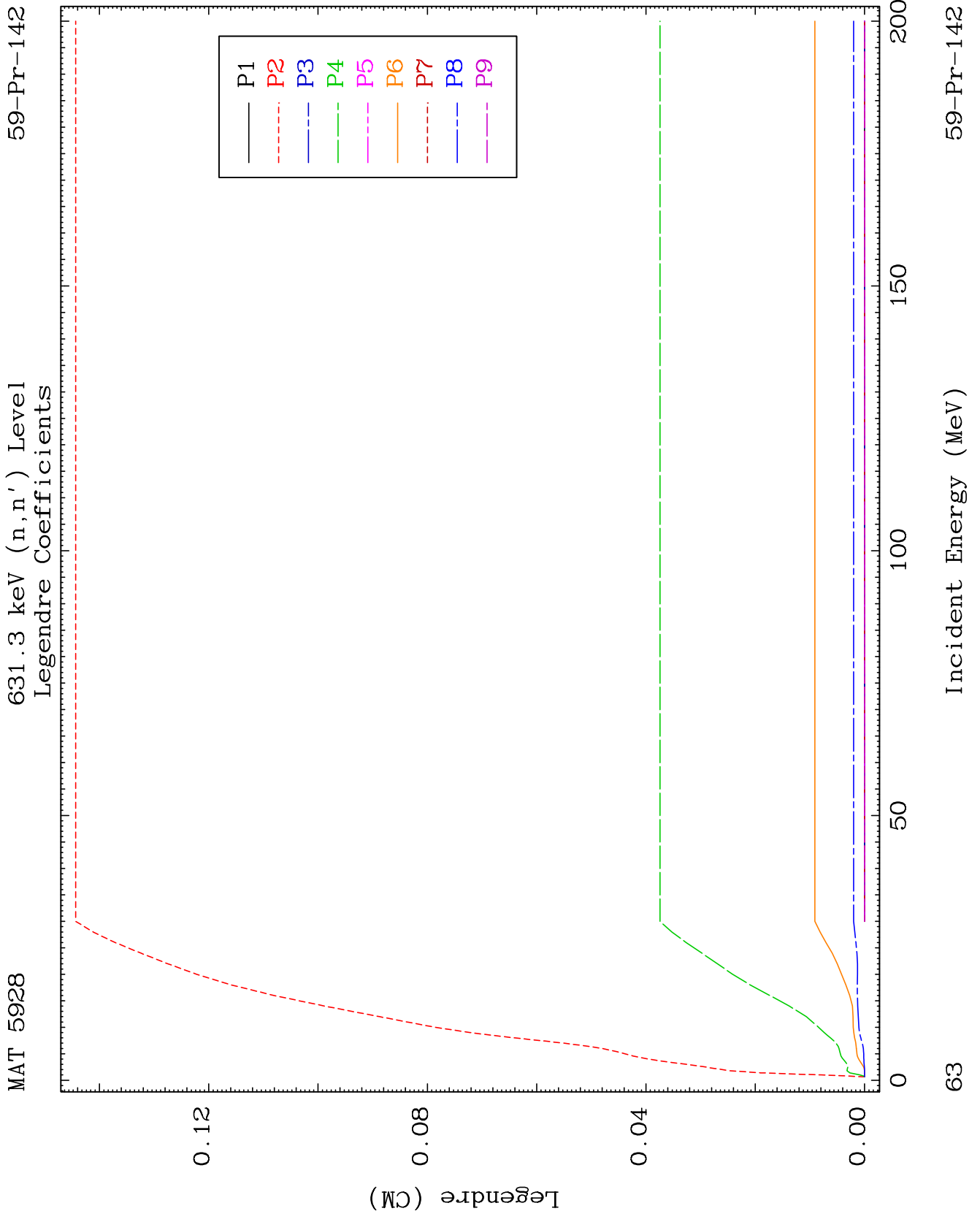
59-Pr-142

Incident Energy (MeV)

60





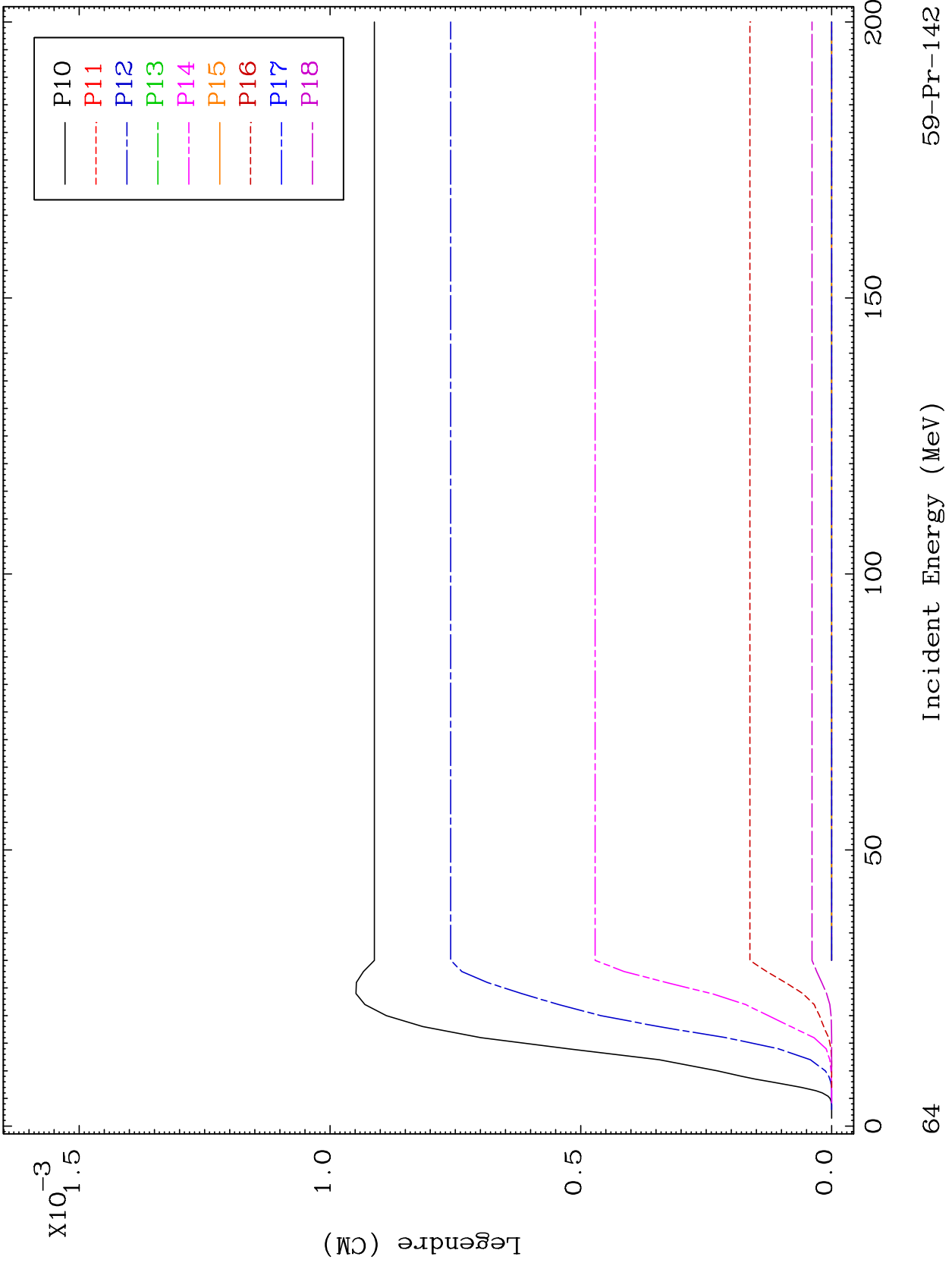


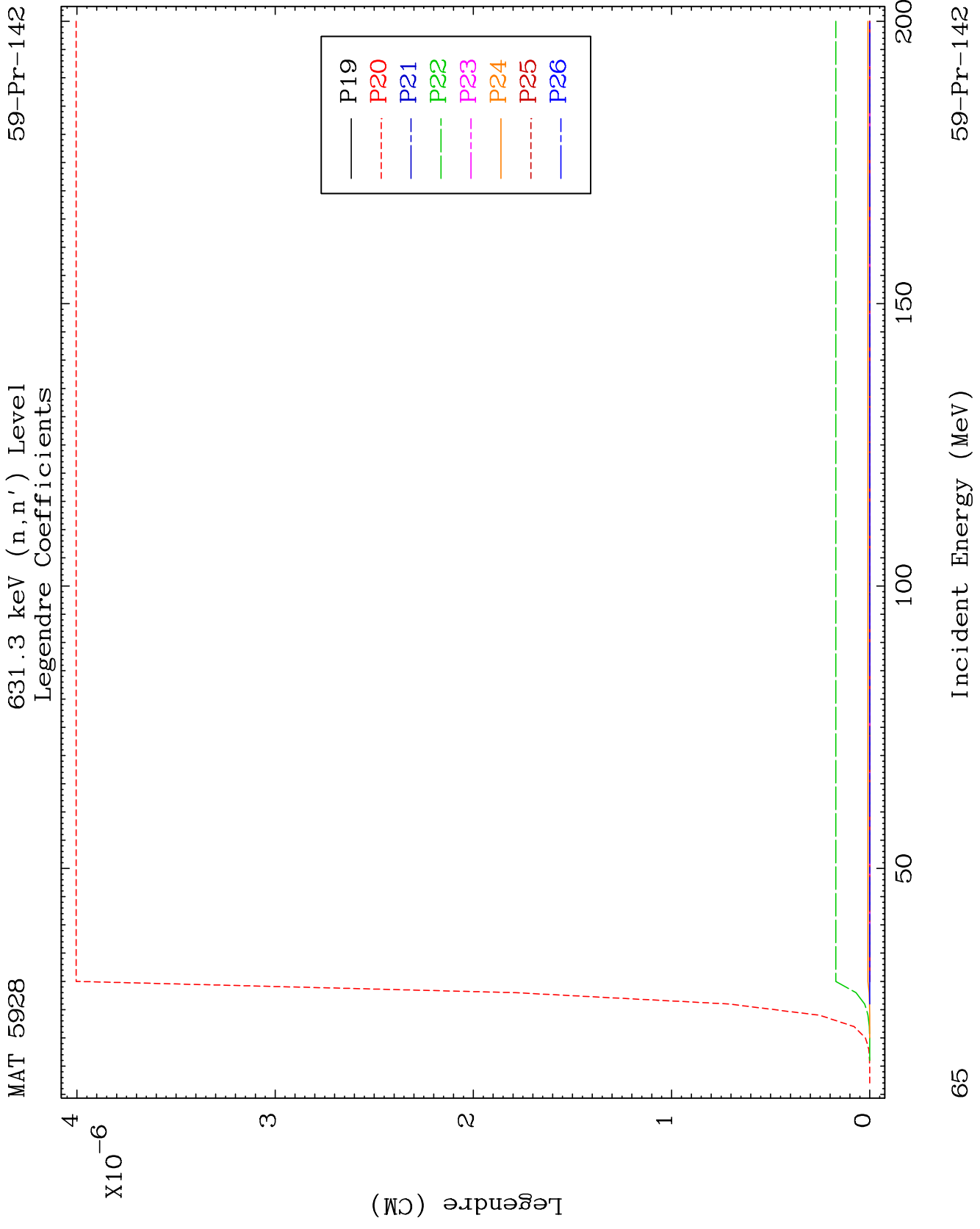


MAT 5928

631.3 keV (n,n') Level  
Legendre Coefficients

59-Pr-142

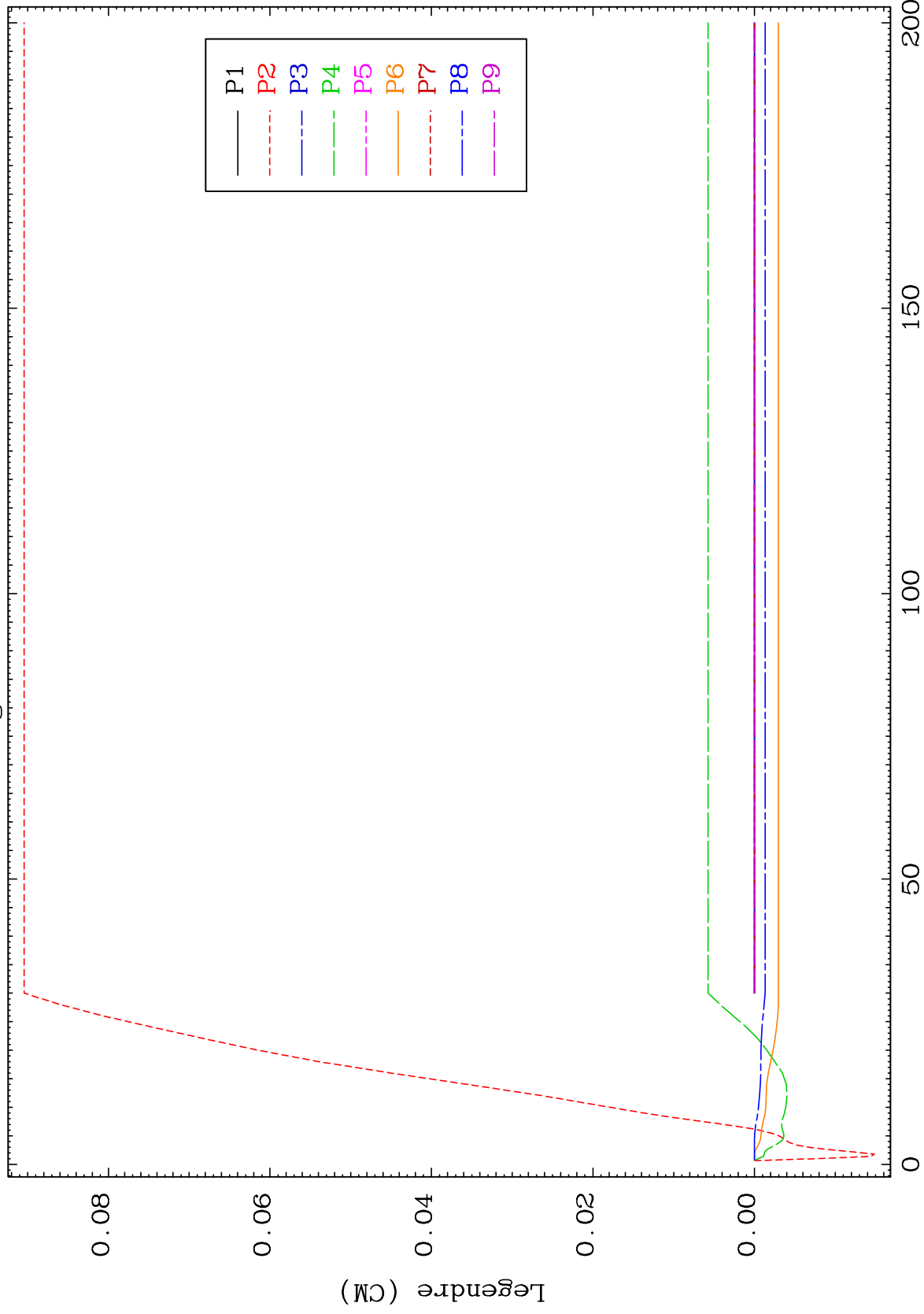




MAT 5928

637.2 keV (n,n') Level  
Legendre Coefficients

59-Pr-142



59-Pr-142

Incident Energy (MeV)

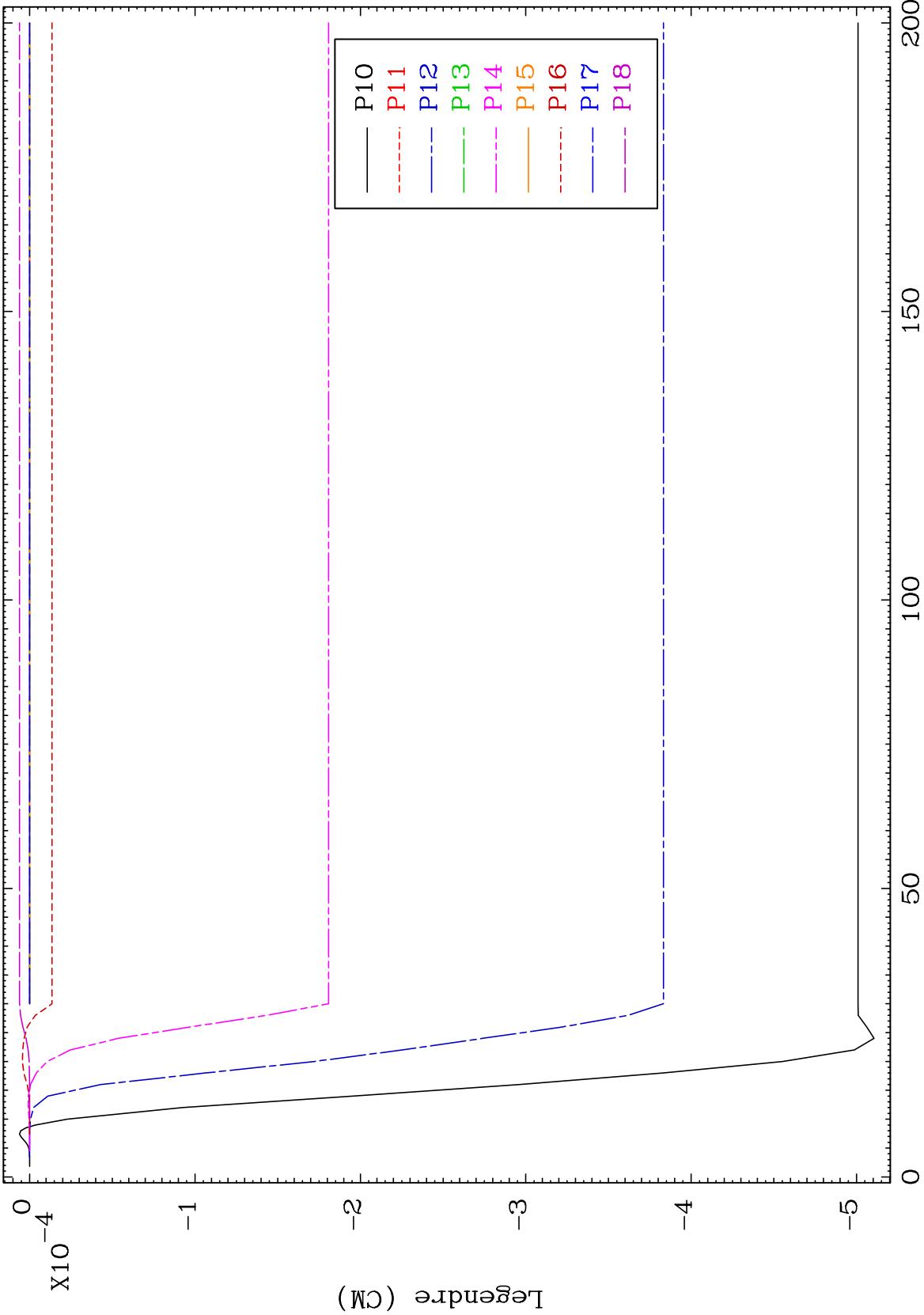
66

MAT 5928

637.2 keV (n,n') Level

59-Pr-142

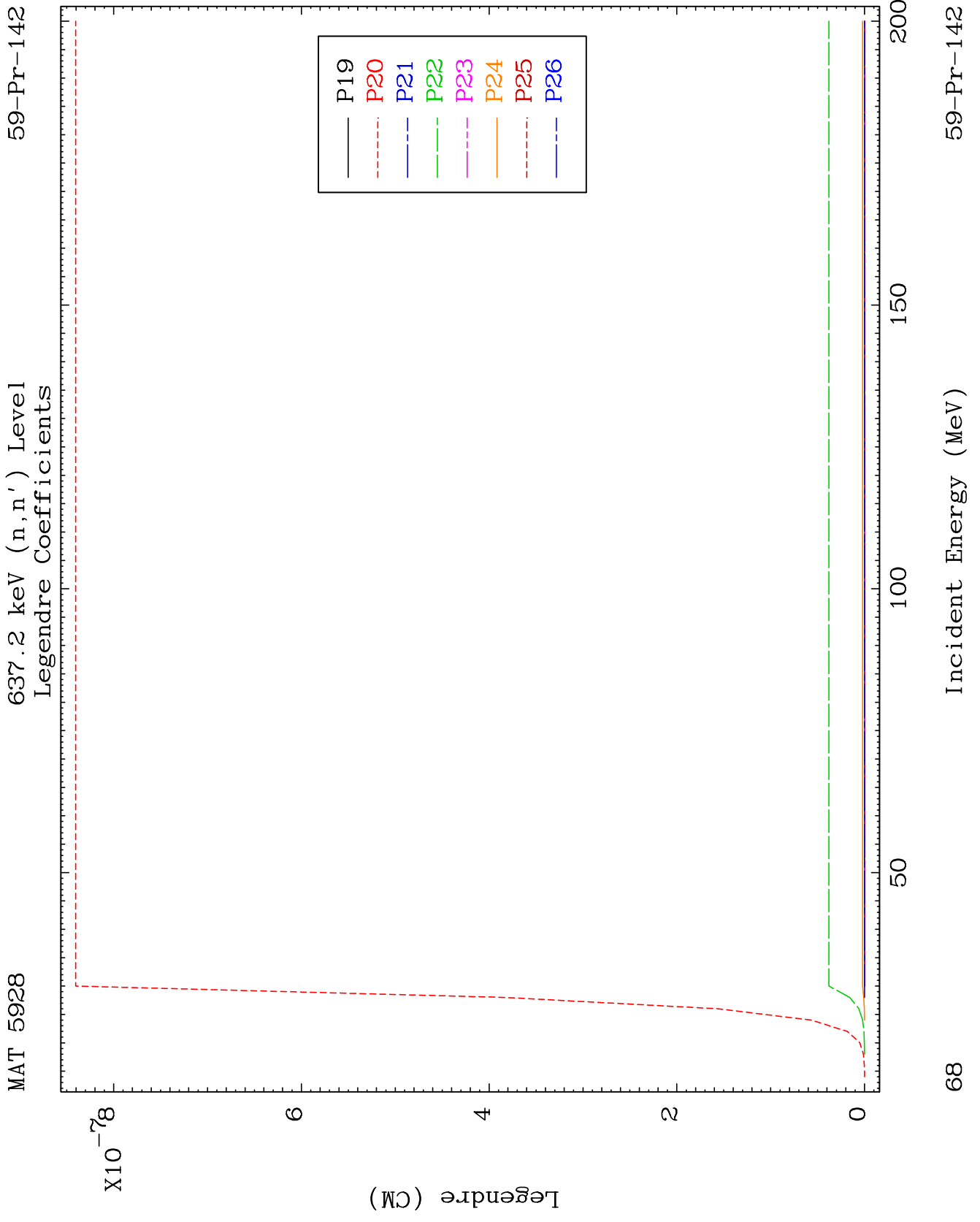
Legendre Coefficients

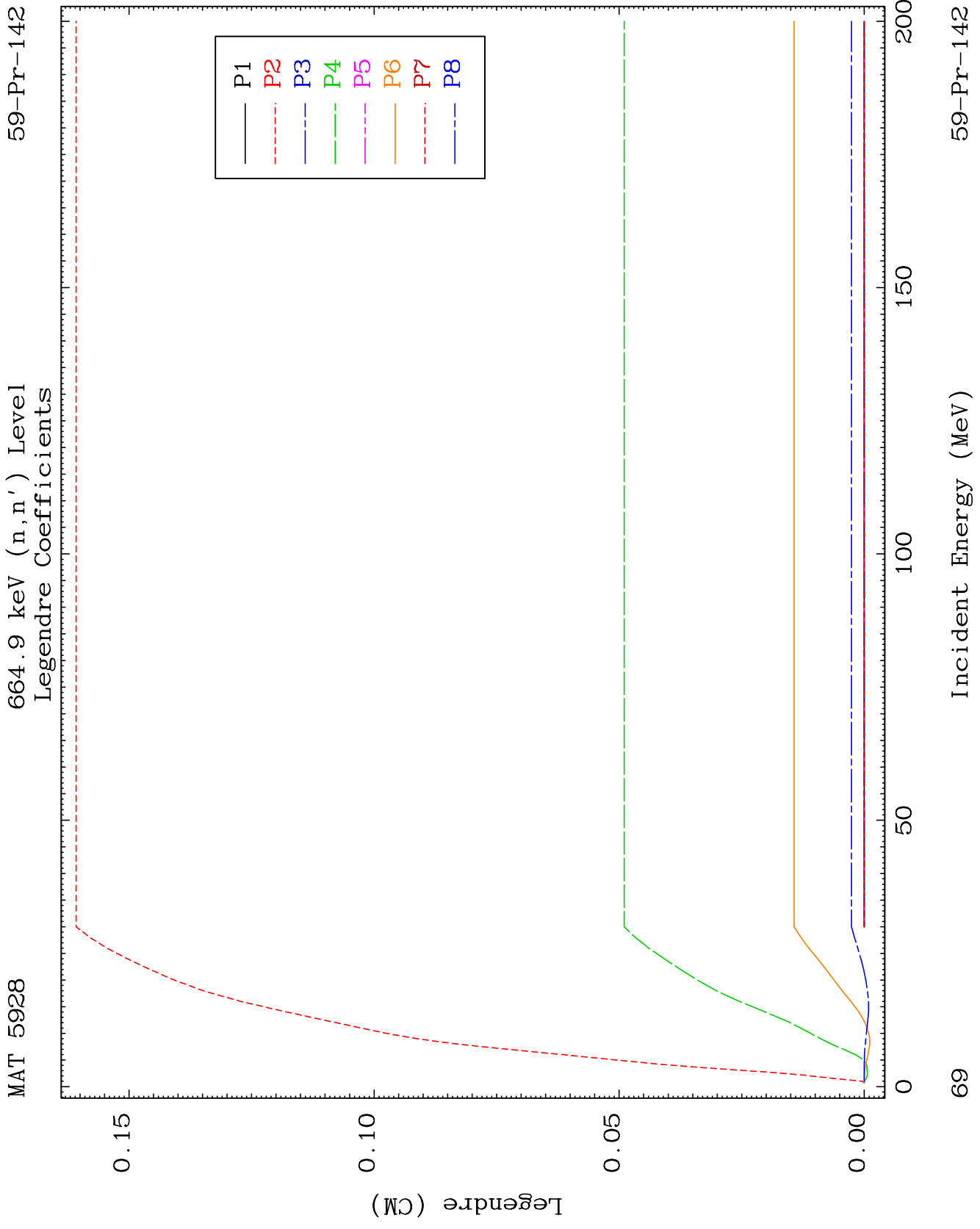


59-Pr-142

Incident Energy (MeV)

67

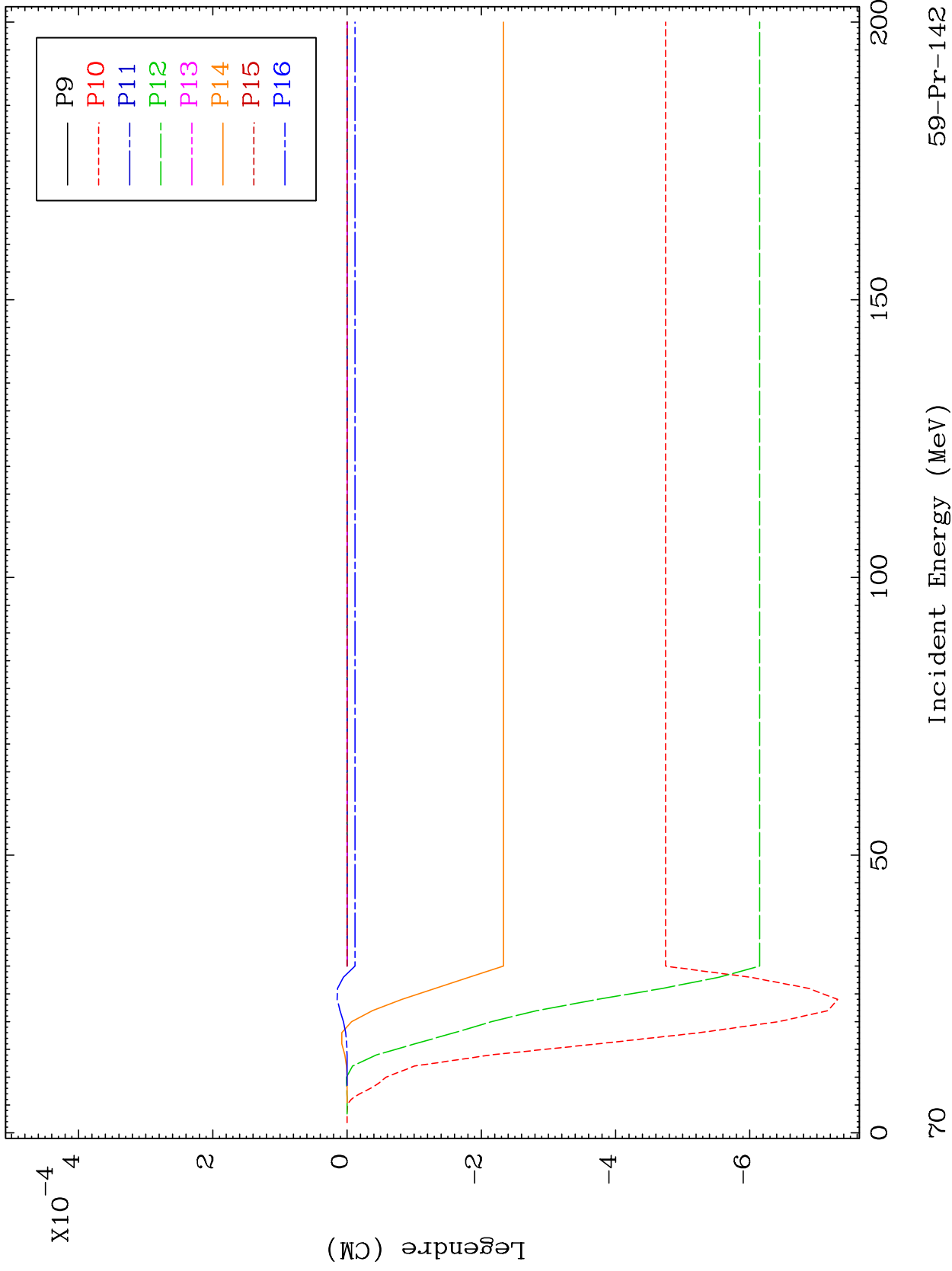




MAT 5928

664.9 keV (n,n') Level  
Legendre Coefficients

59-Pr-142

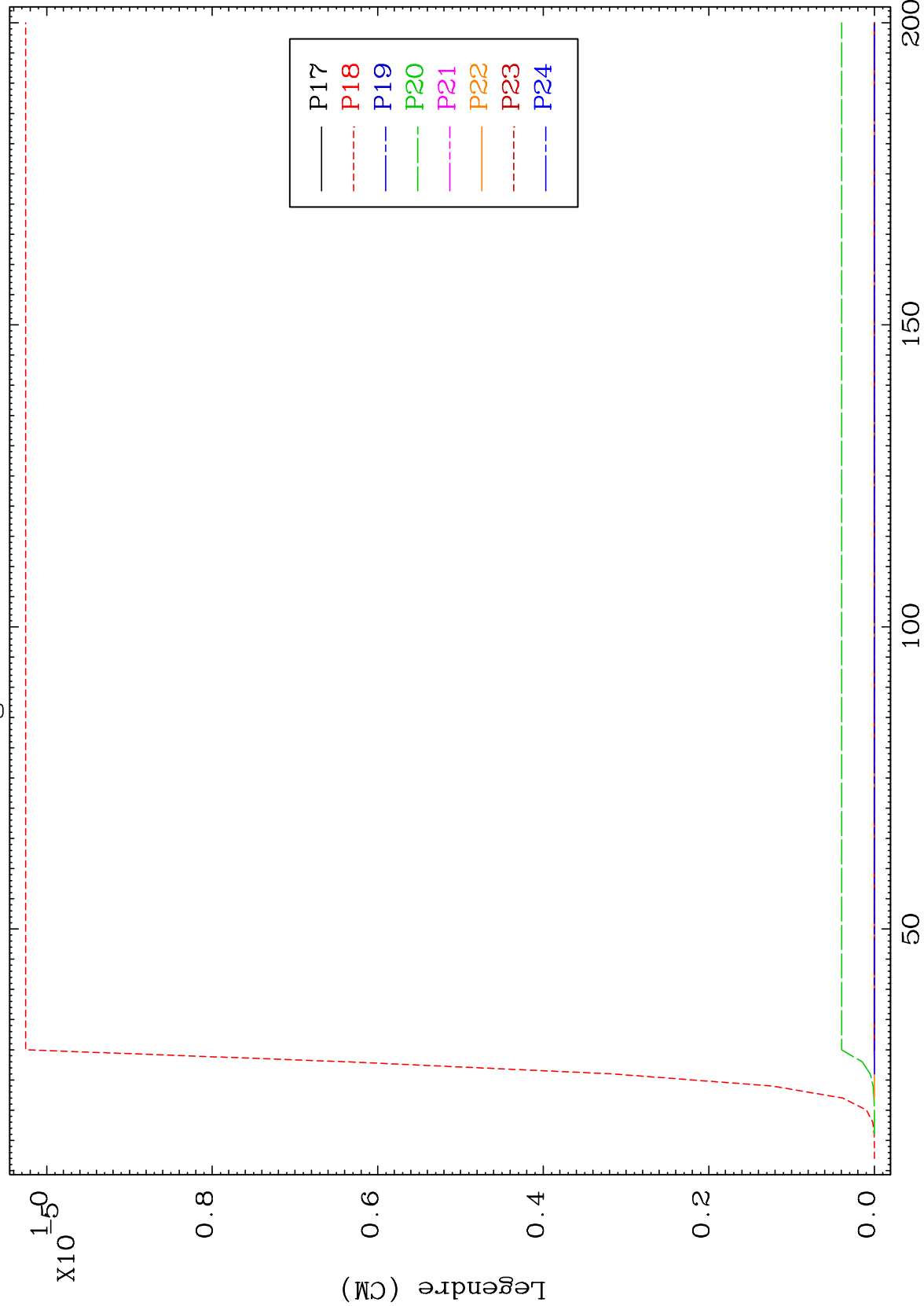


59-Pr-142

MAT 5928

664.9 keV (n, n') Level  
Legendre Coefficients

59-Pr-142

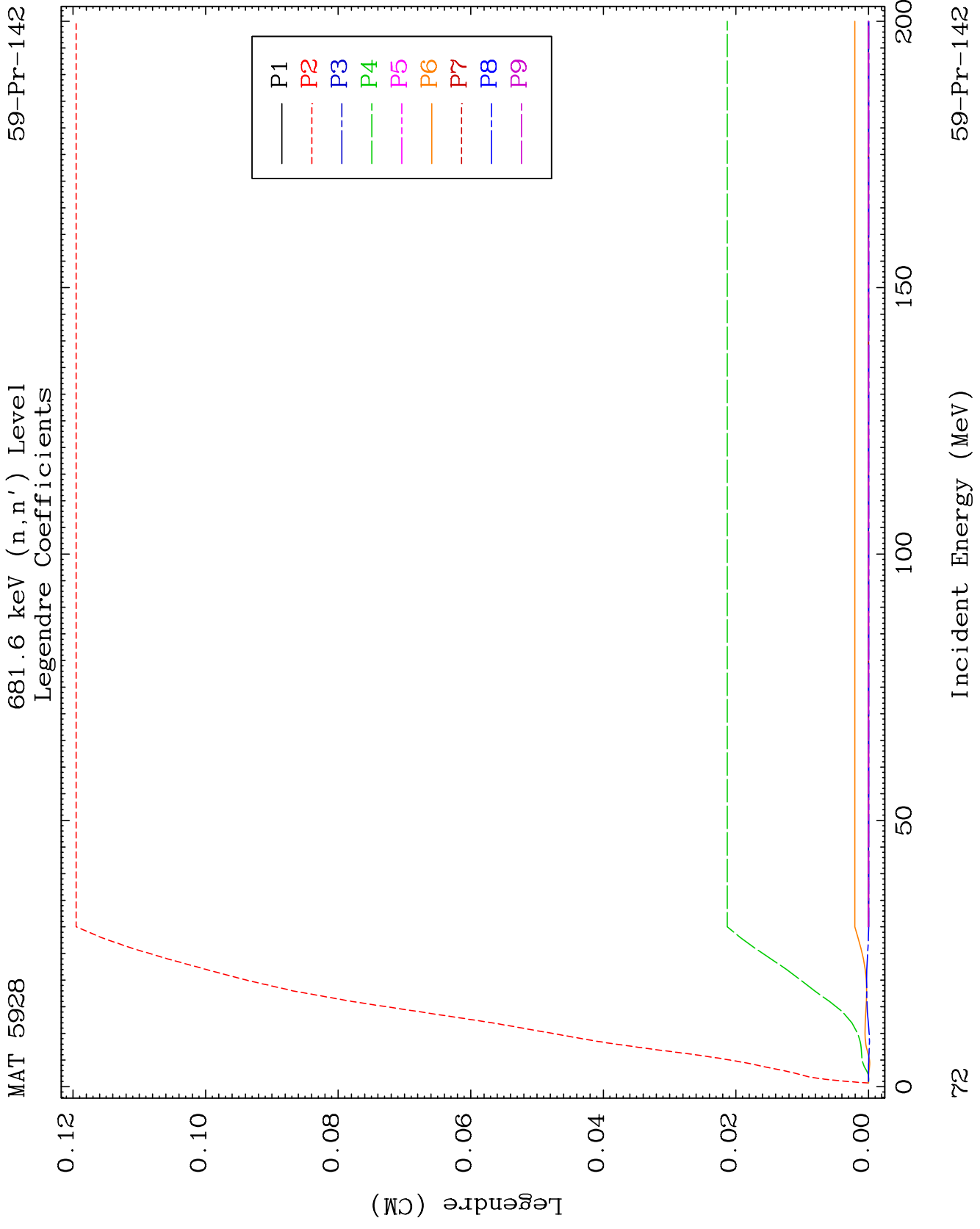


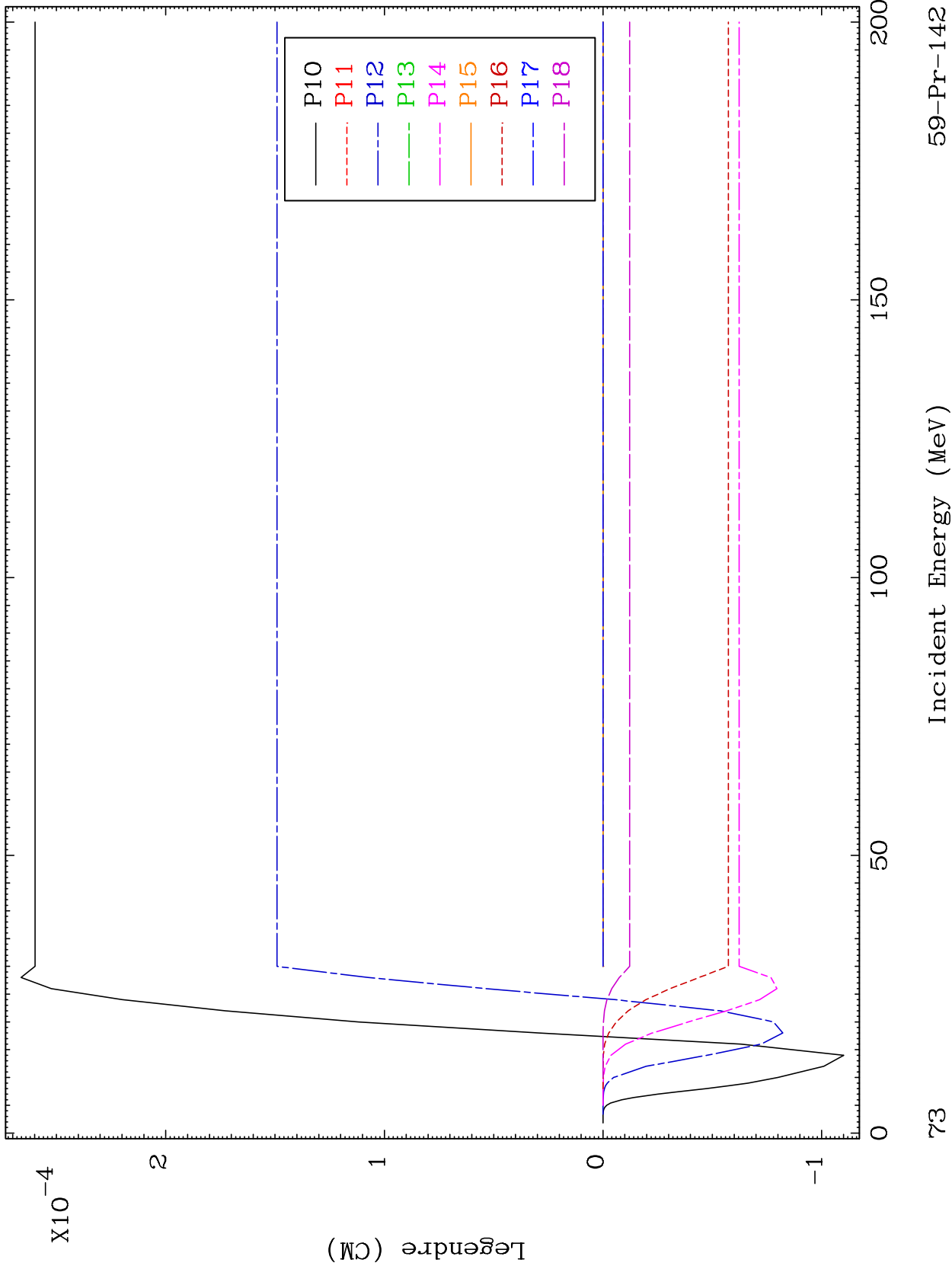
59-Pr-142

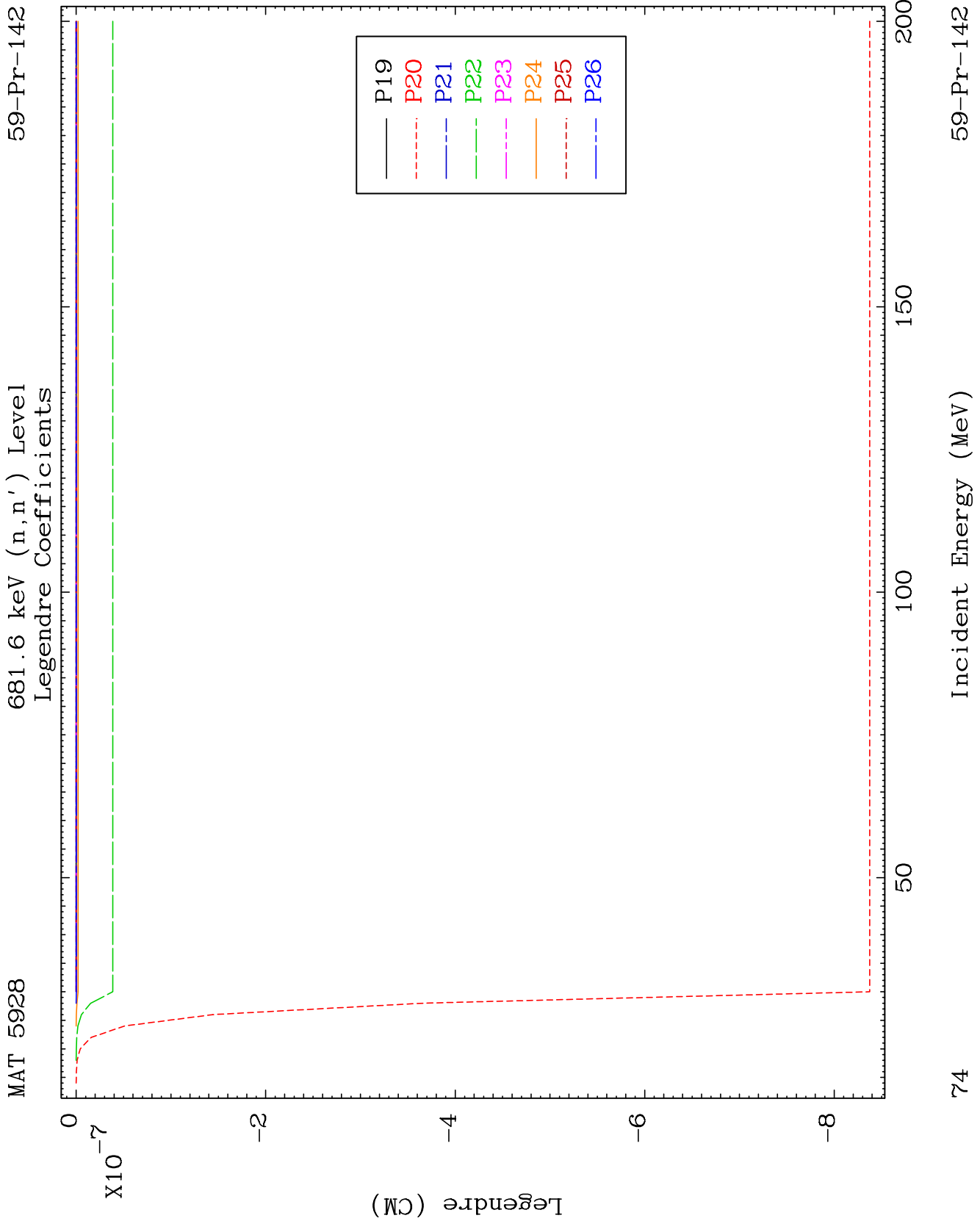
Incident Energy (MeV)

71





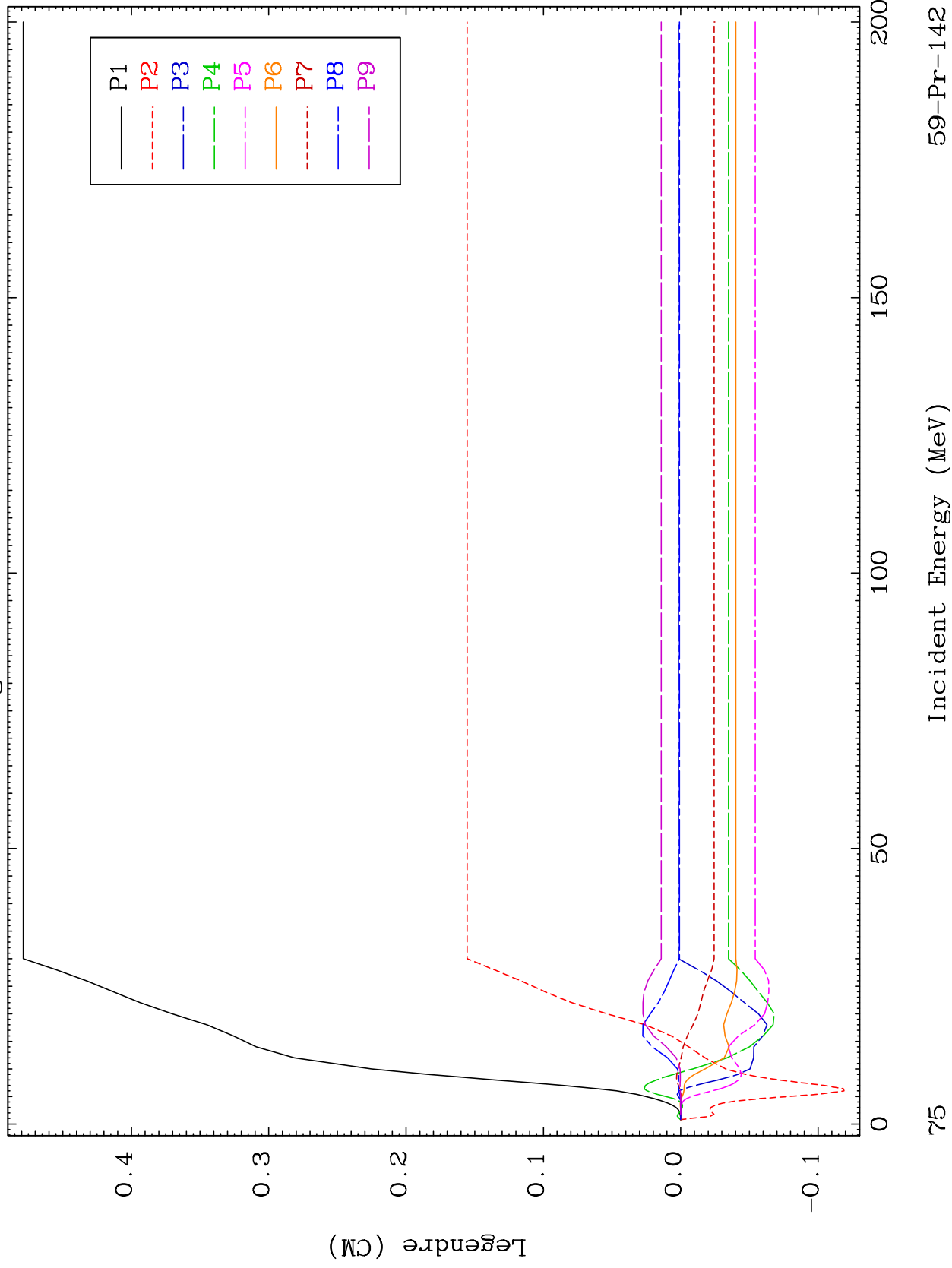




MAT 5928

702.5 keV (n,n') Level  
Legendre Coefficients

59-Pr-142



75

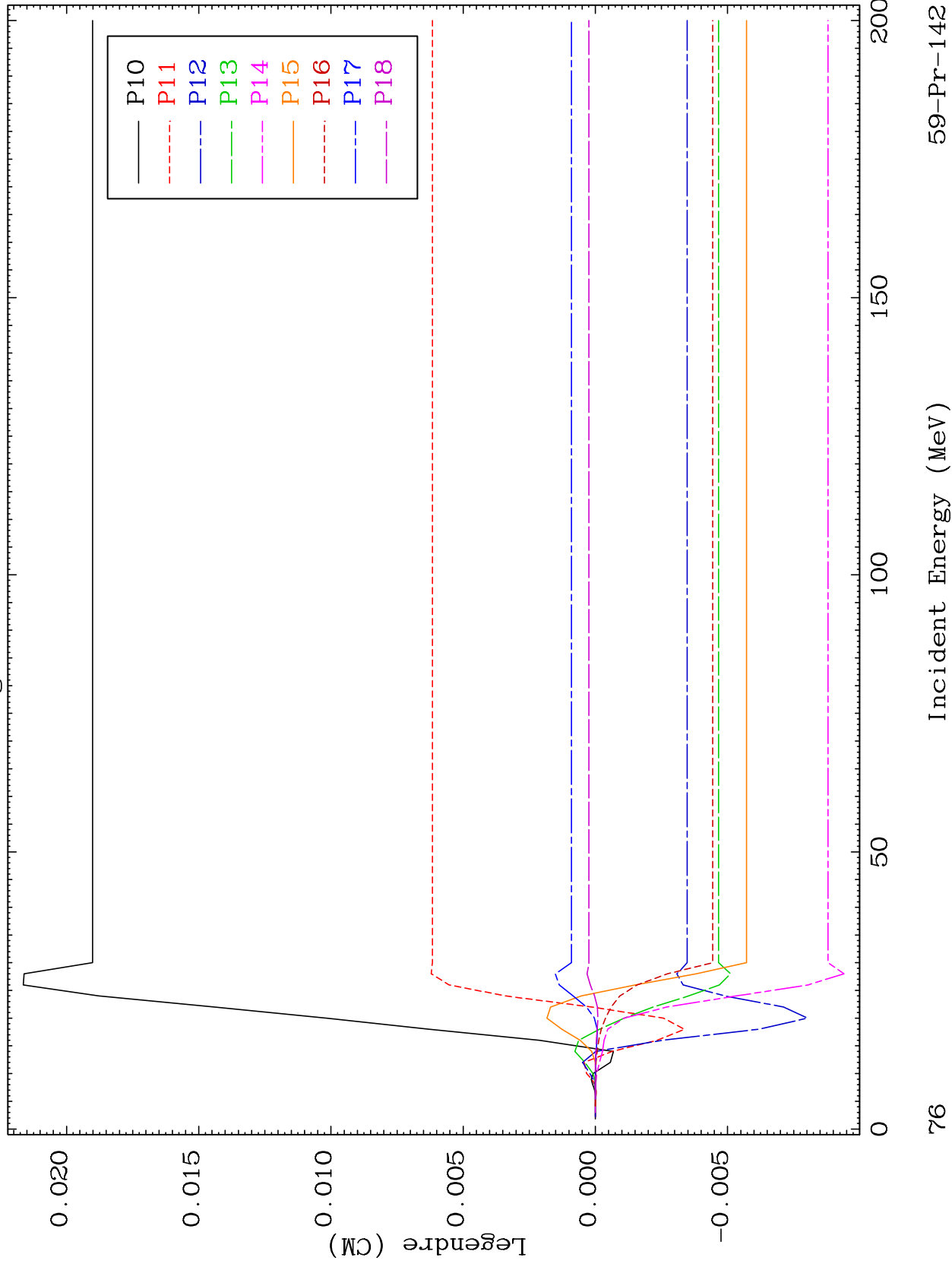
Incident Energy (MeV)

59-Pr-142

MAT 5928

702.5 keV (n,n') Level  
Legendre Coefficients

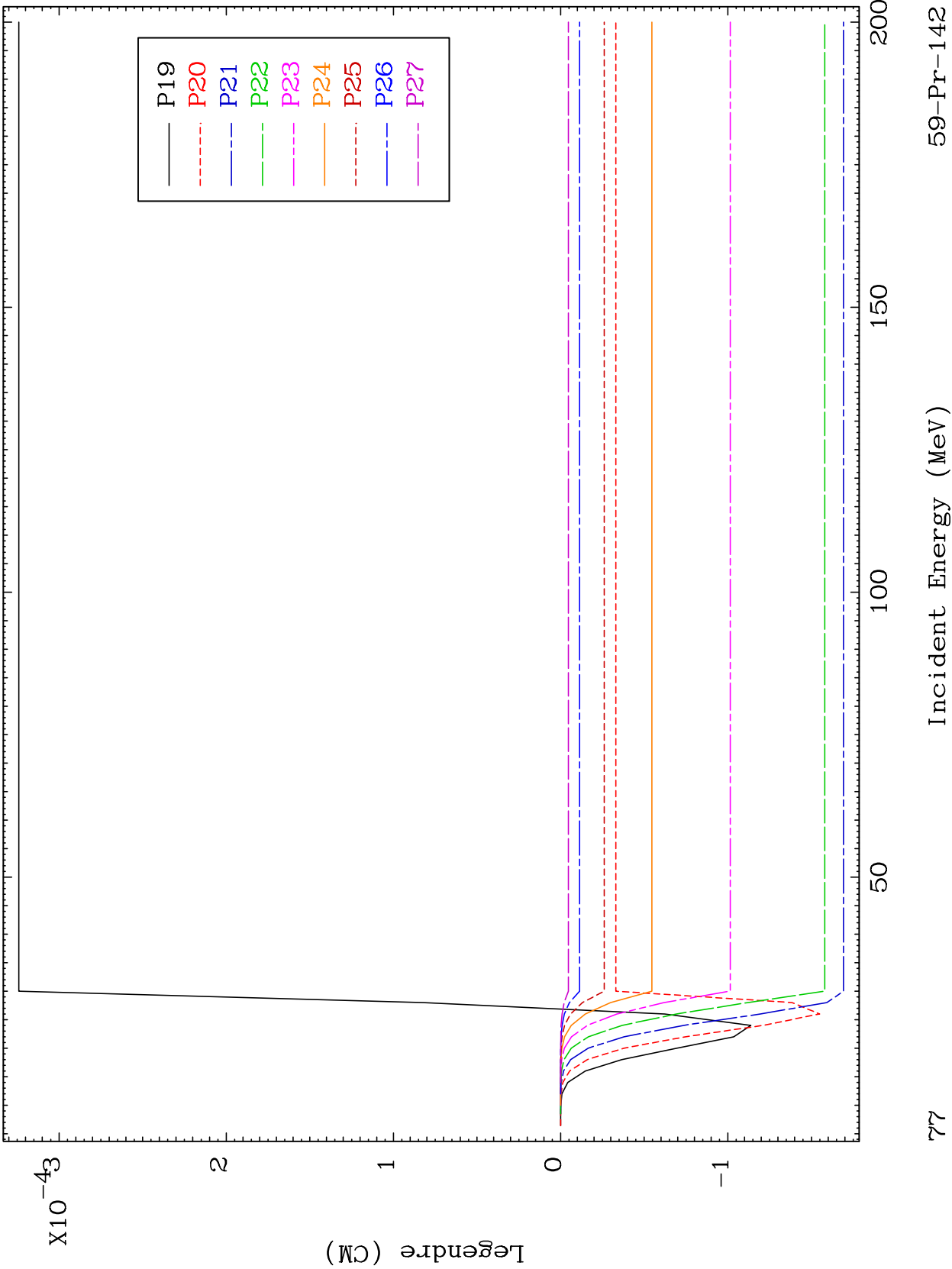
59-Pr-142

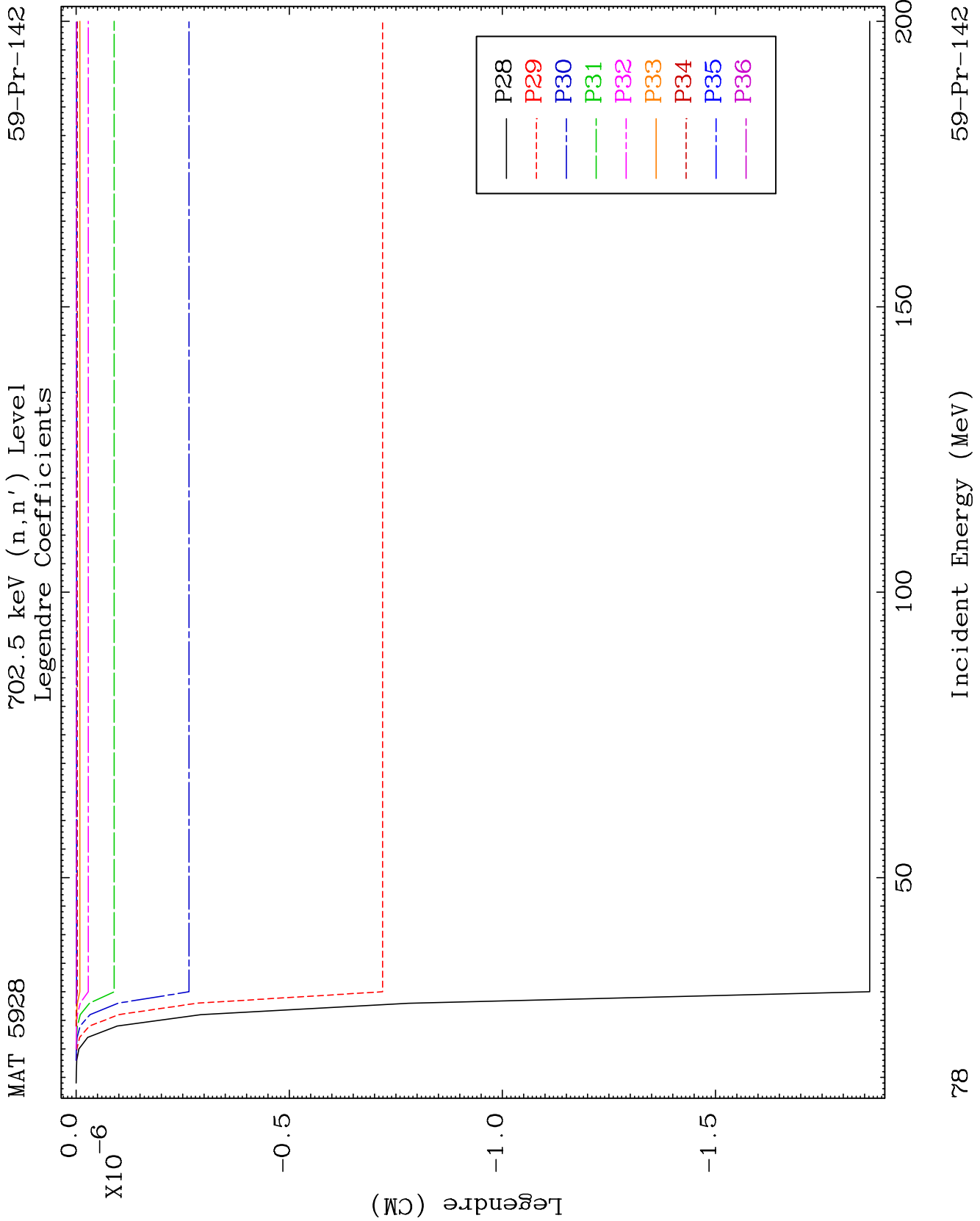


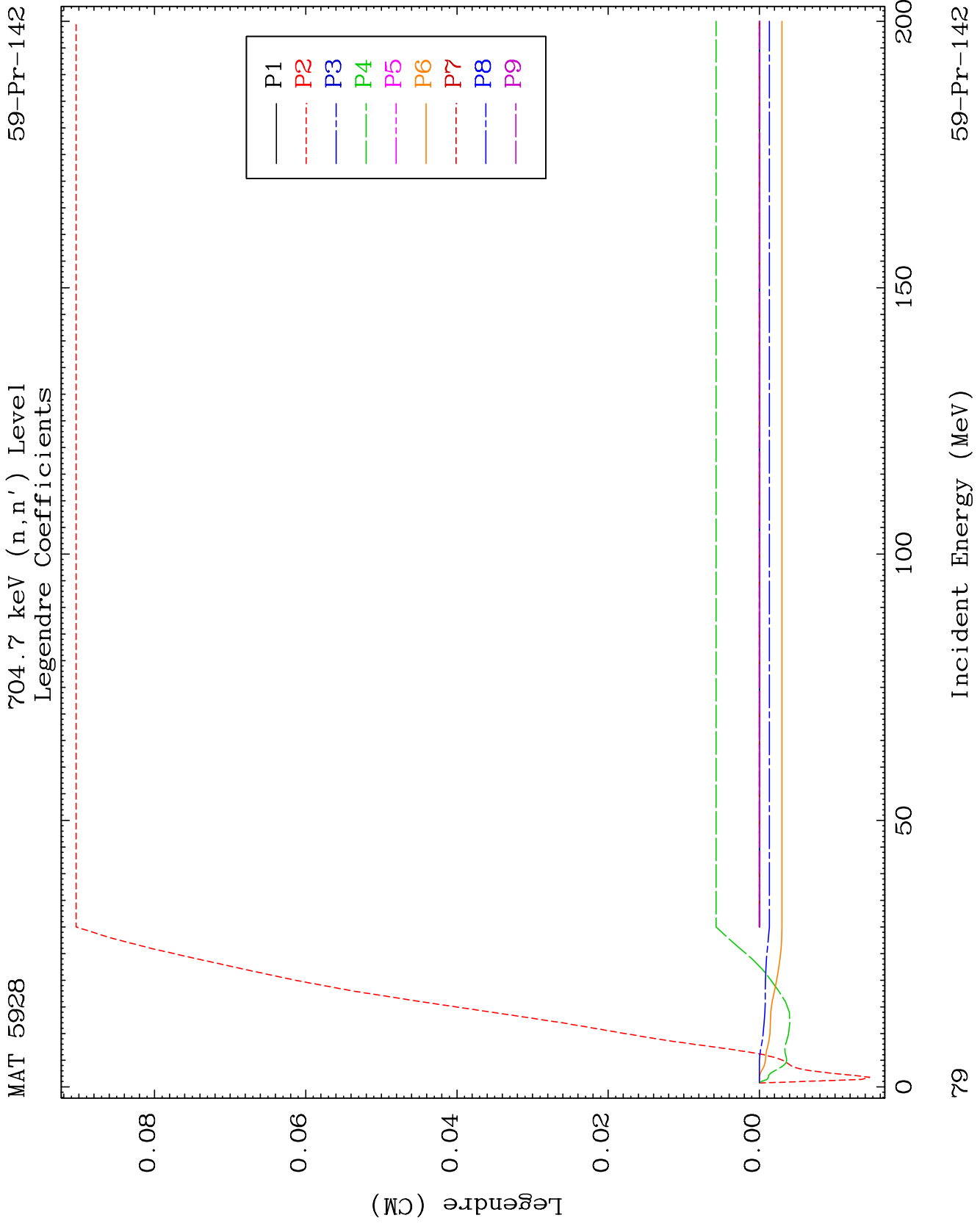
76

Incident Energy (MeV)

59-Pr-142





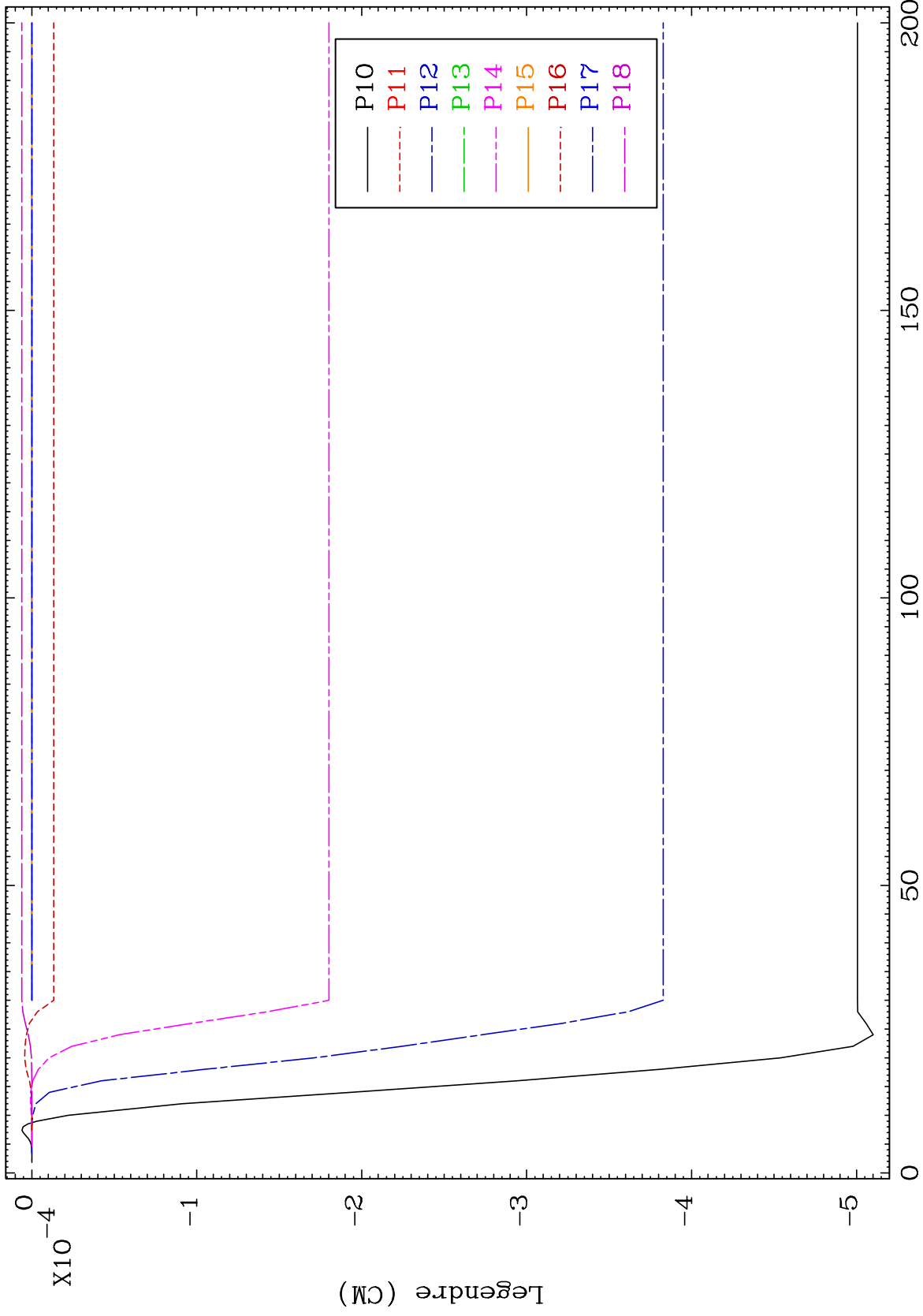




MAT 5928

704.7 keV (n, n') Level  
Legendre Coefficients

59-Pr-142

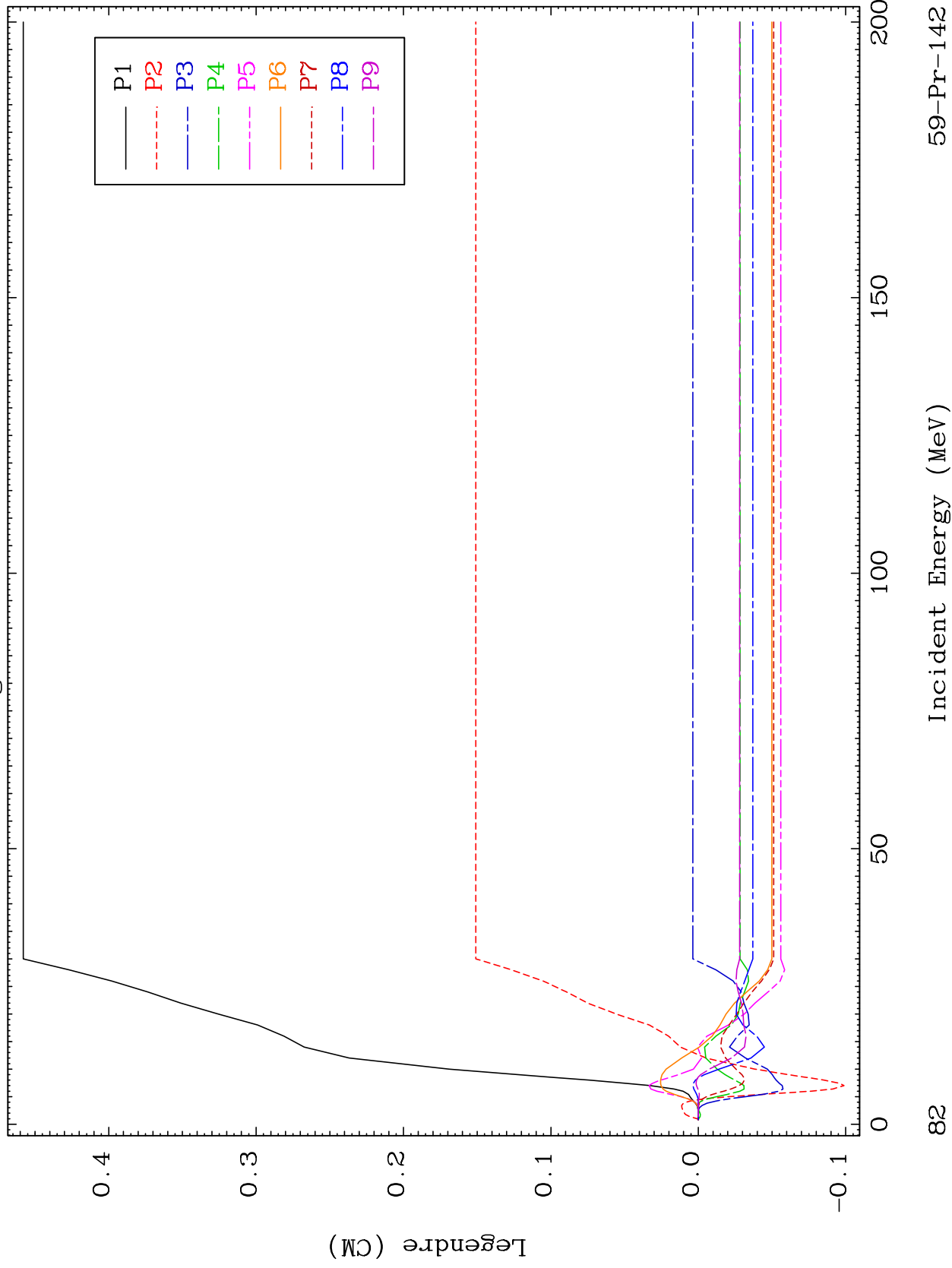


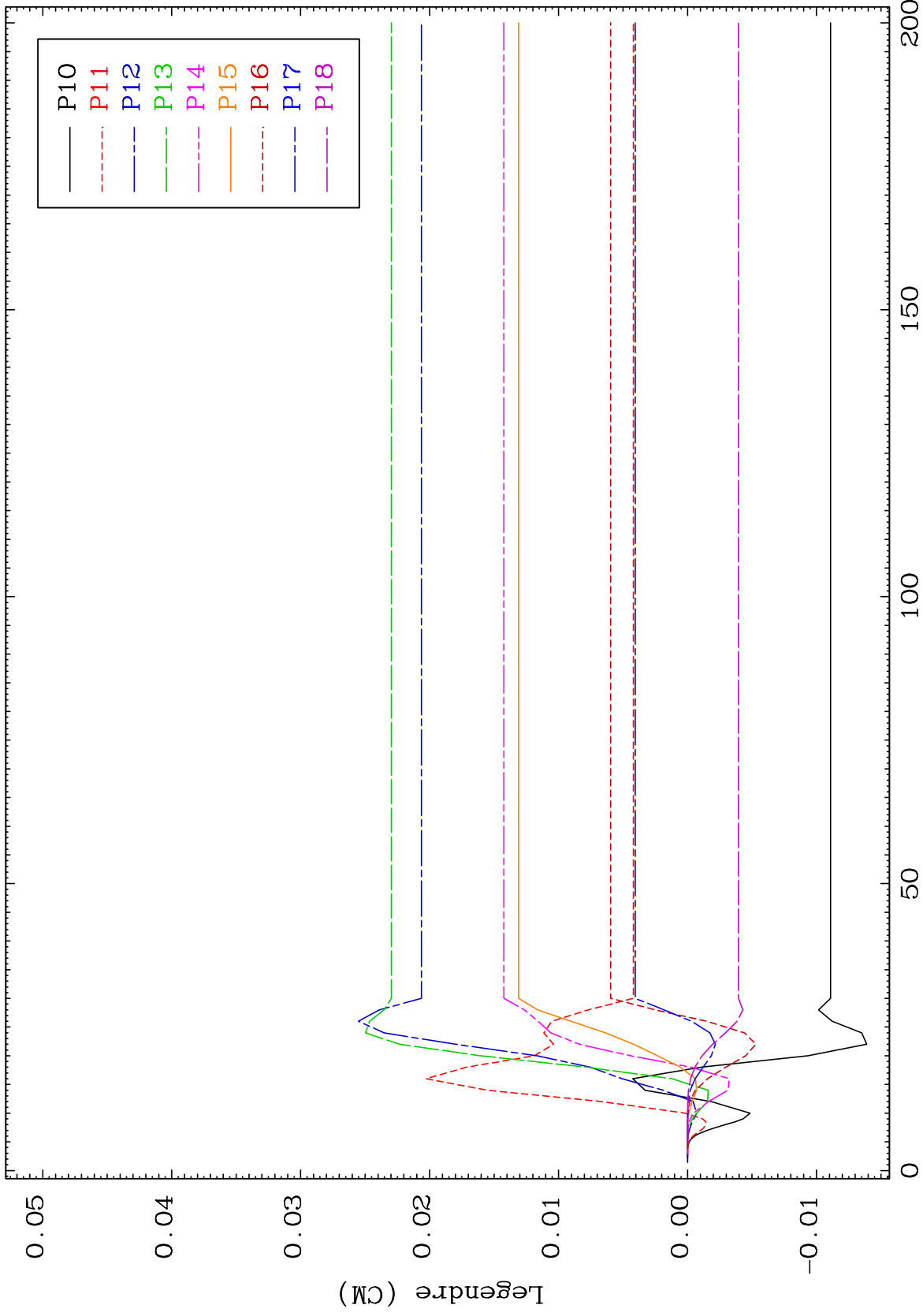
59-Pr-142

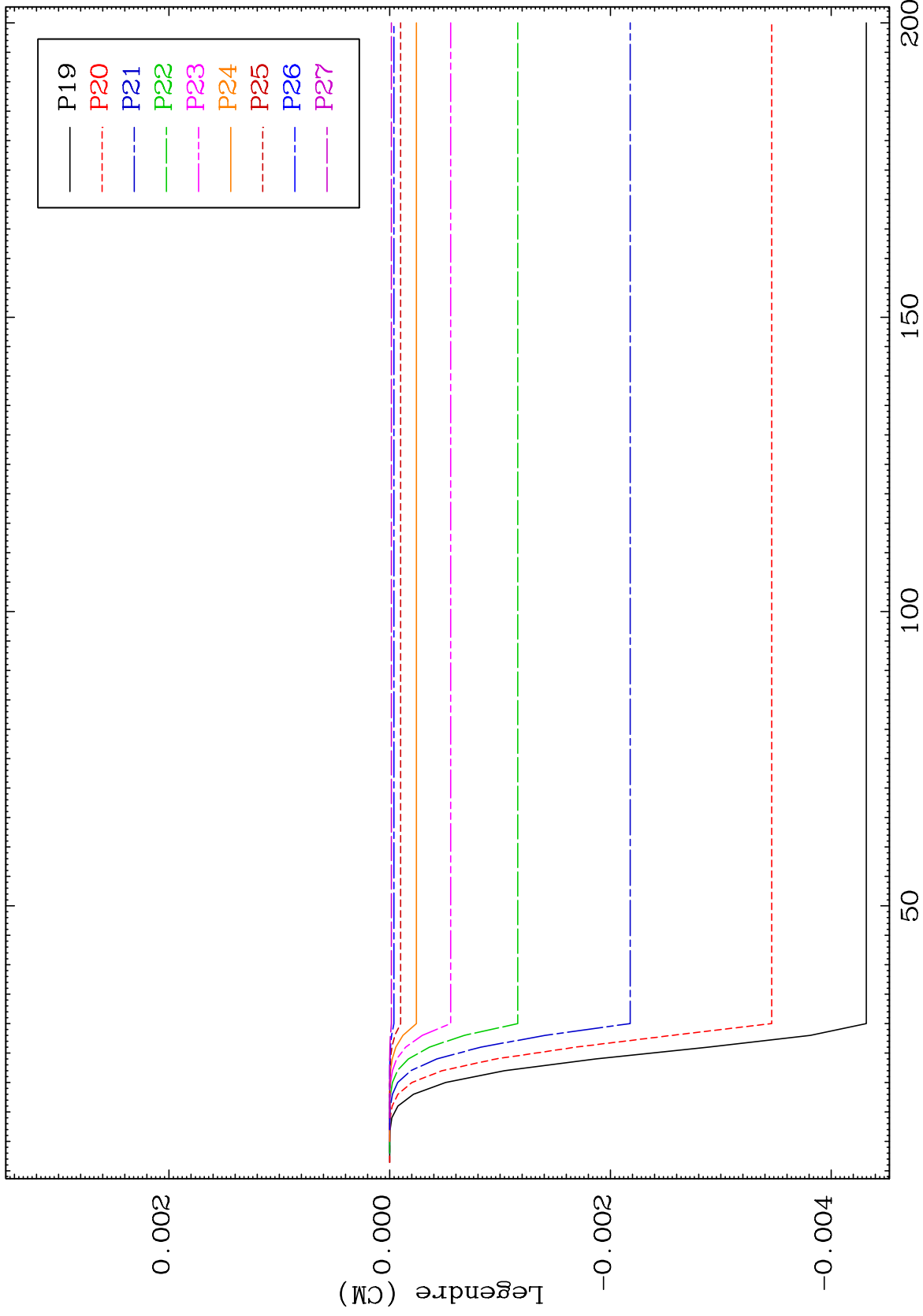
Incident Energy (MeV)

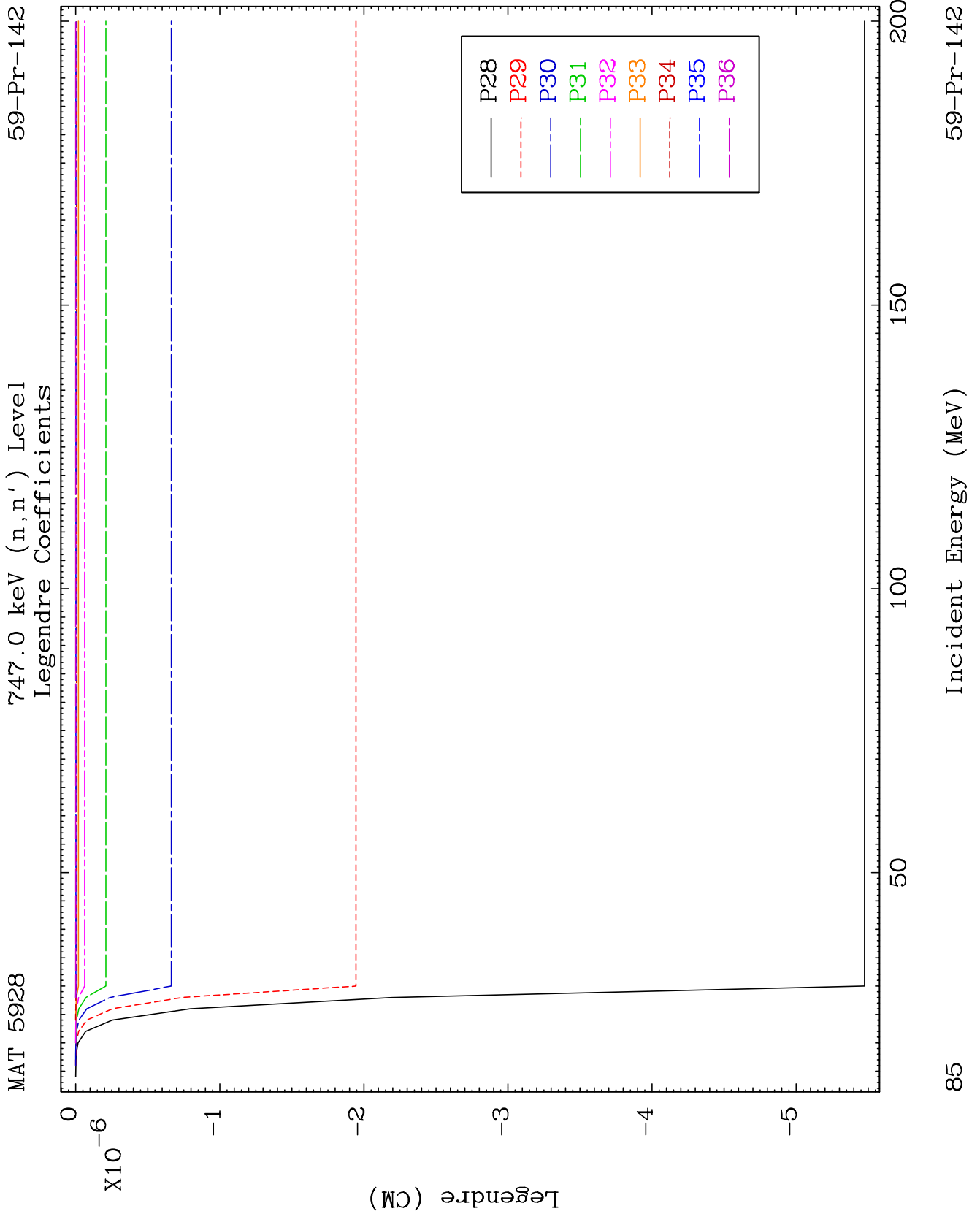
80







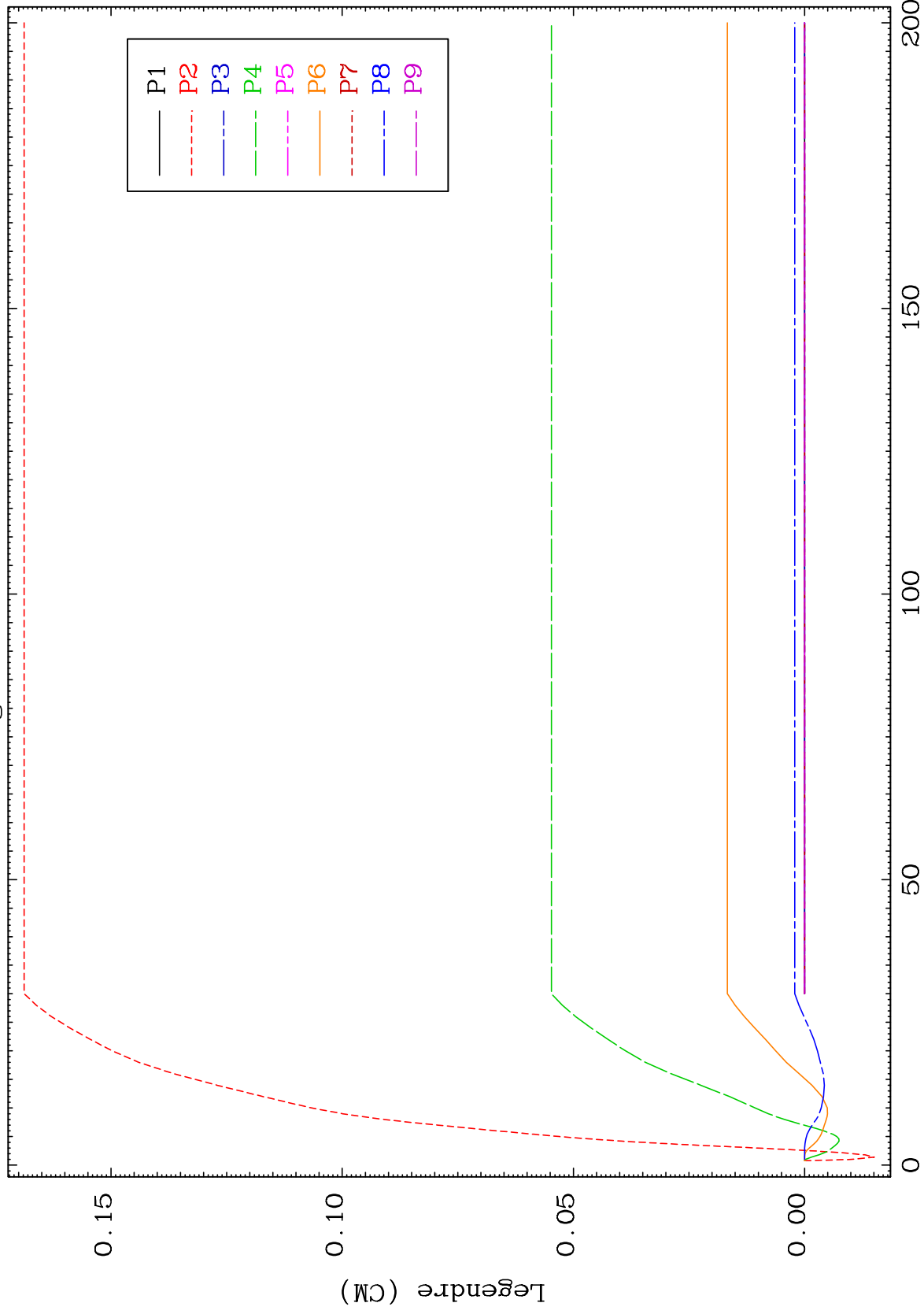




MAT 5928

767.0 keV (n,n') Level  
Legendre Coefficients

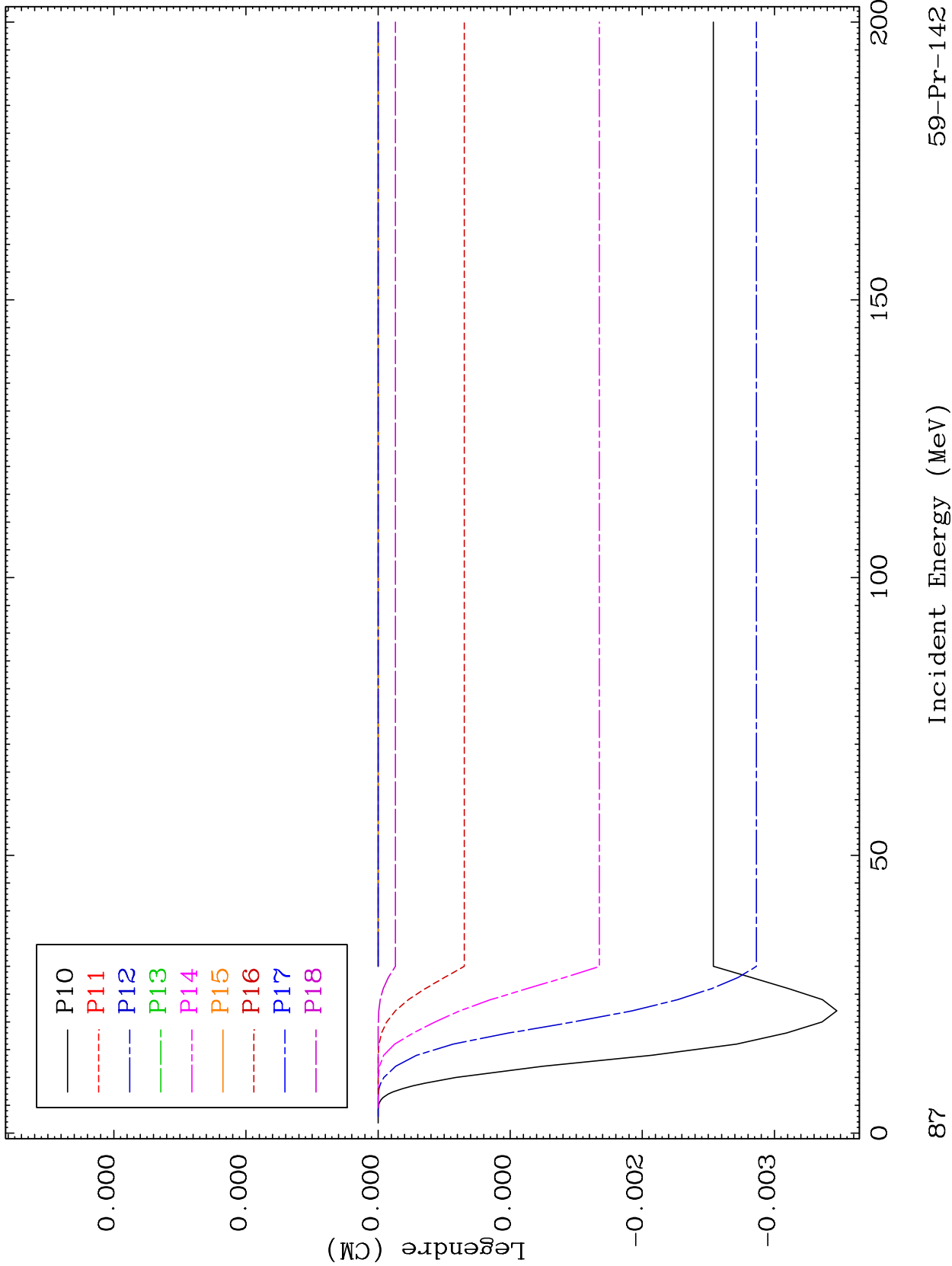
59-Pr-142



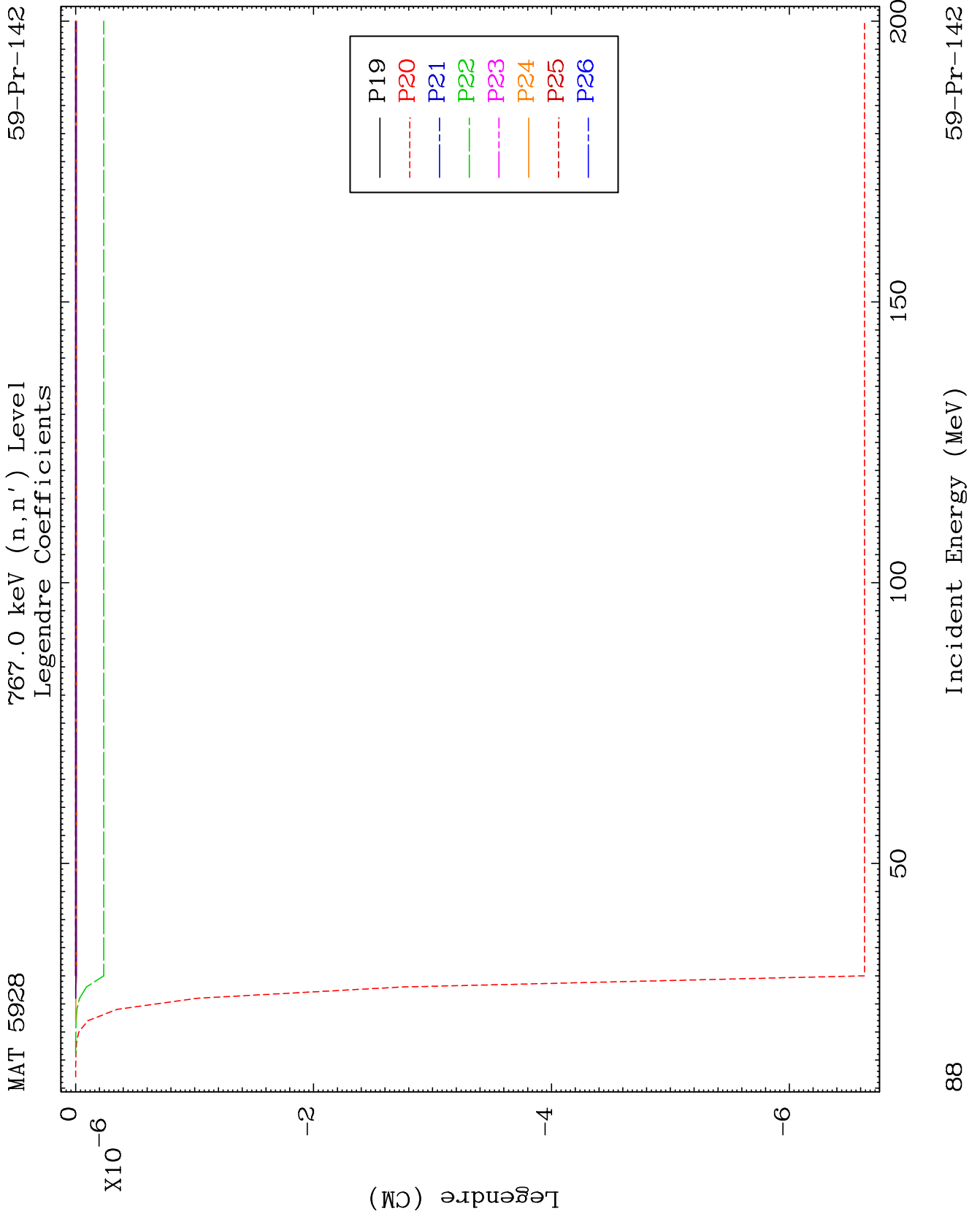
86

Incident Energy (MeV)

59-Pr-142



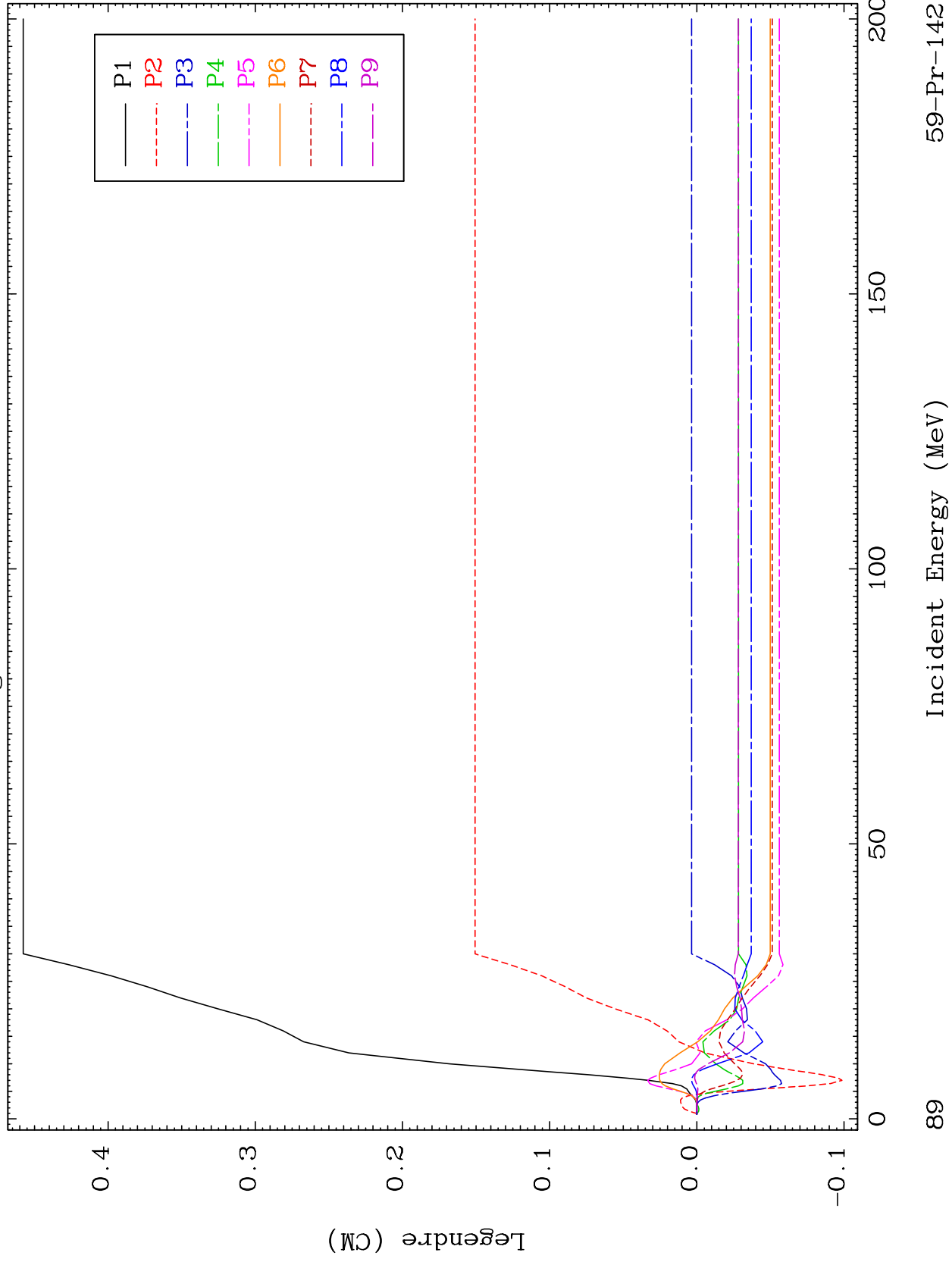




MAT 5928

790.4 keV (n,n') Level  
Legendre Coefficients

59-Pr-142



59-Pr-142

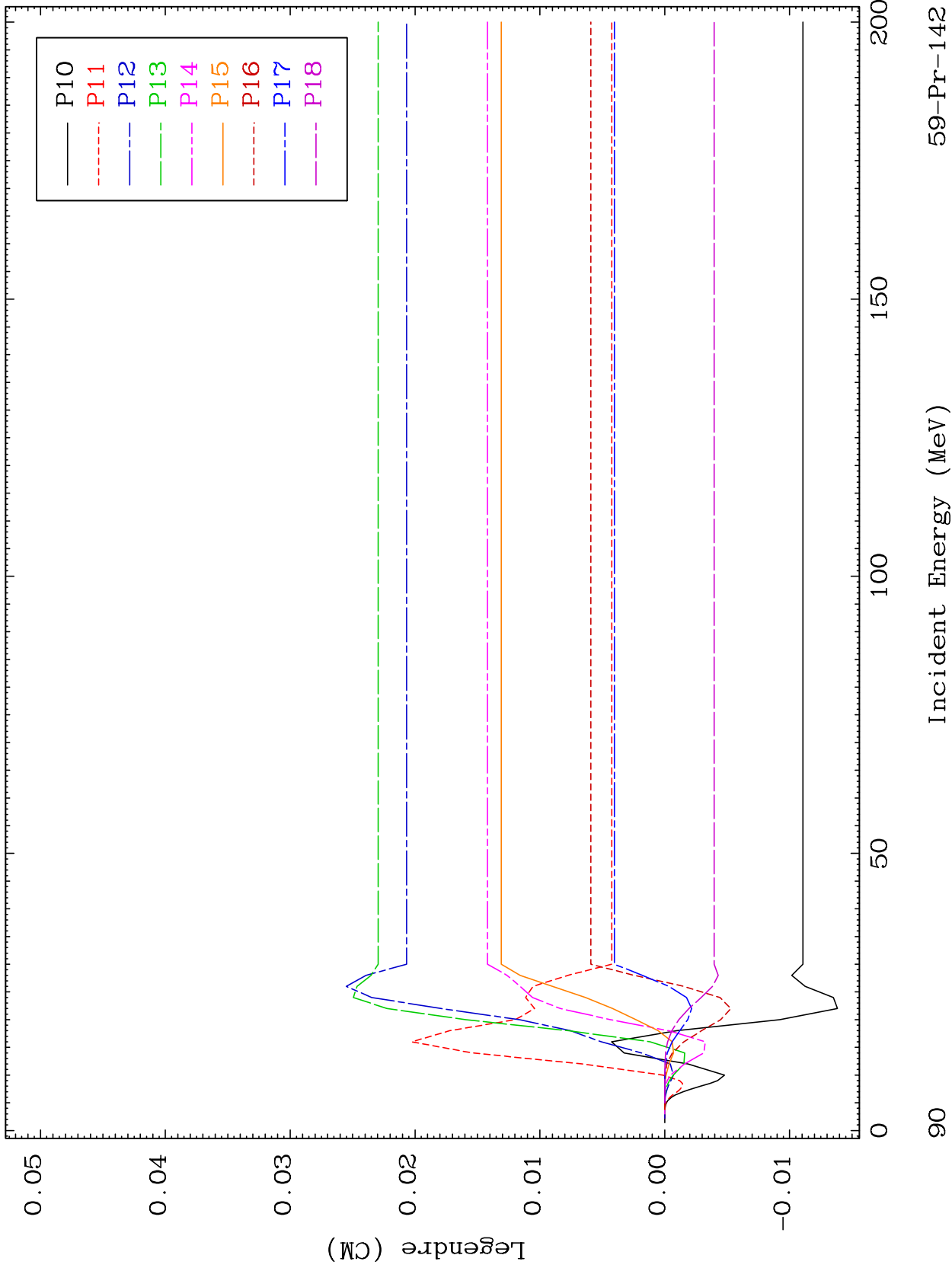
Incident Energy (MeV)

89

MAT 5928

790.4 keV (n,n') Level  
Legendre Coefficients

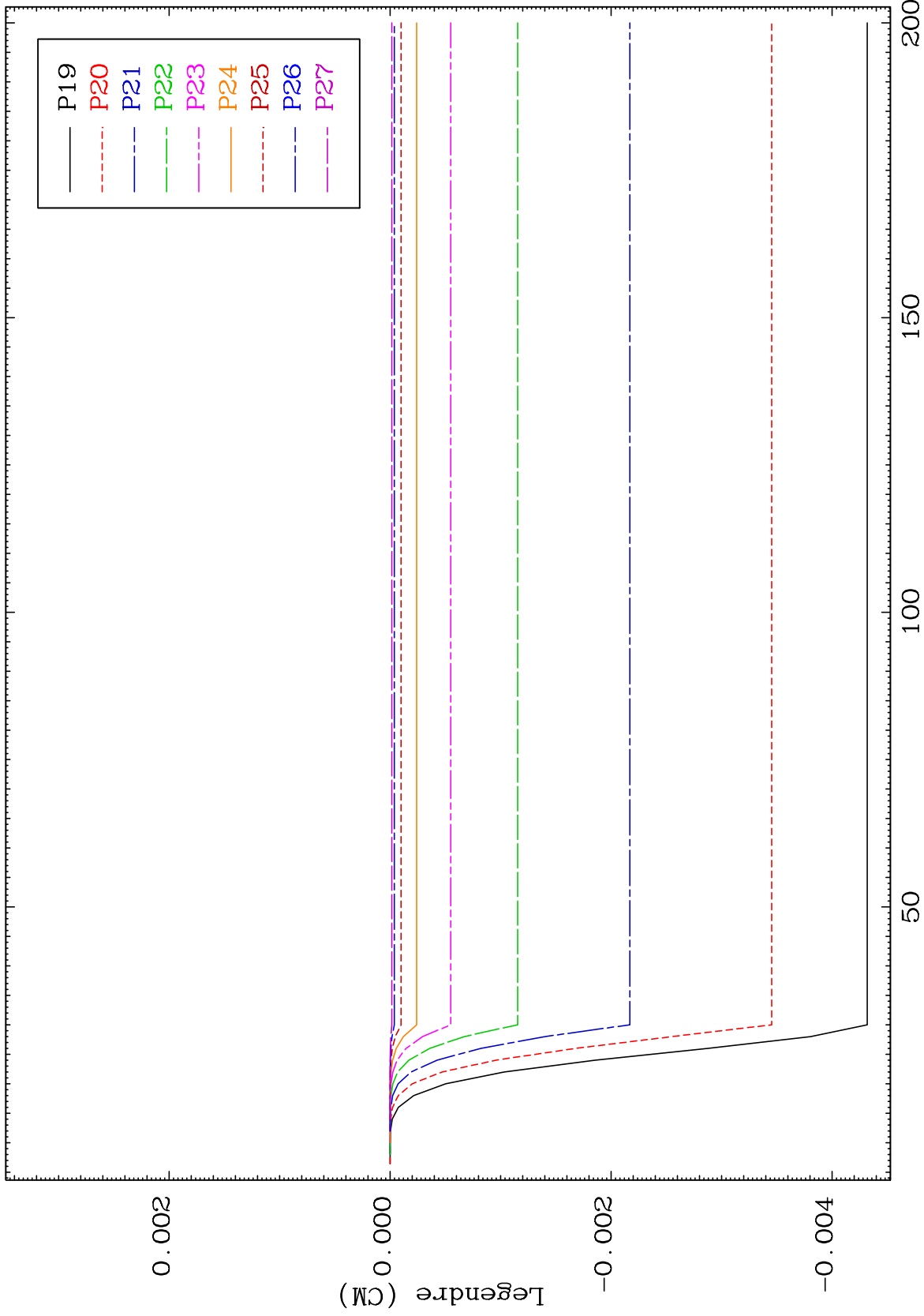
59-Pr-142

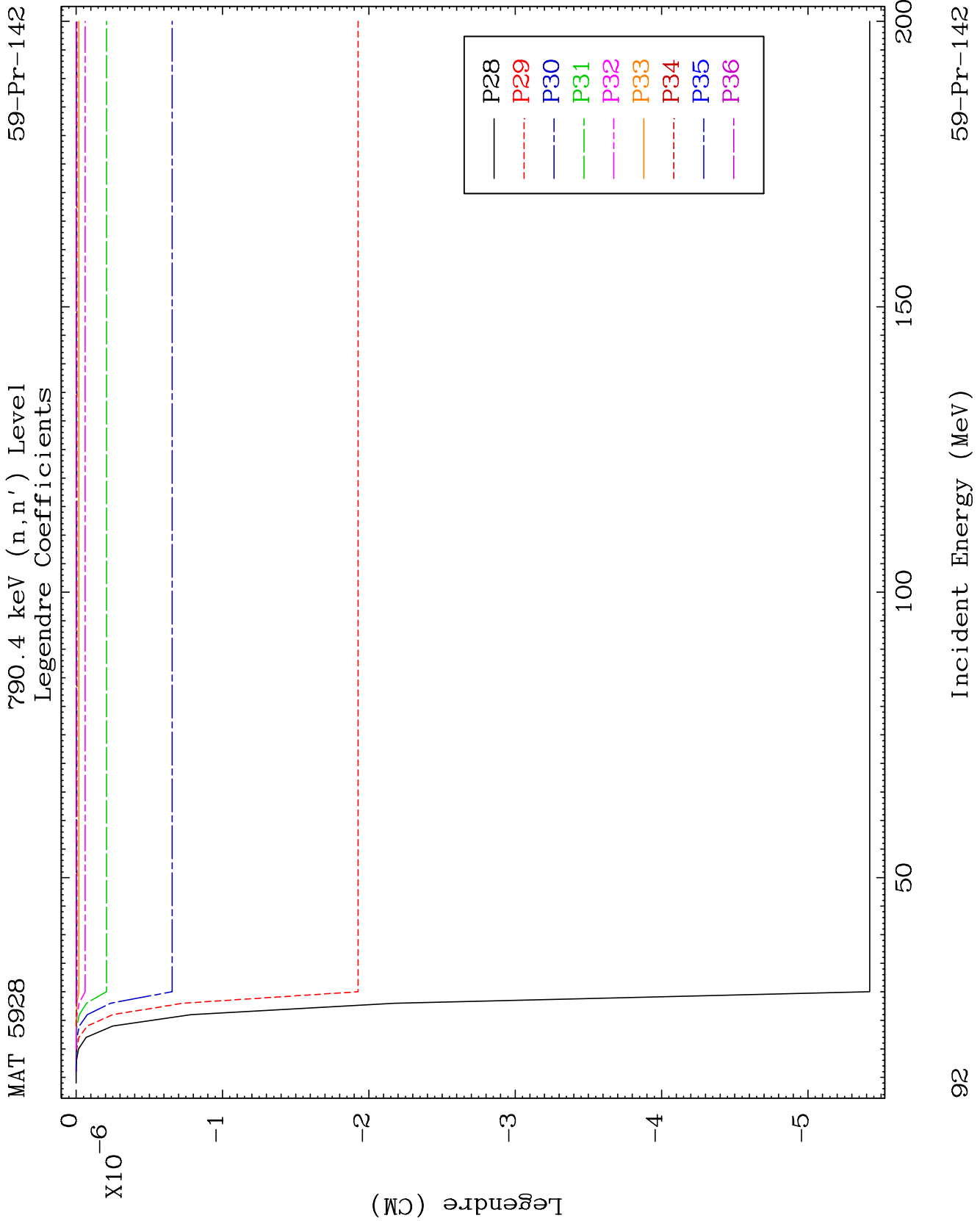


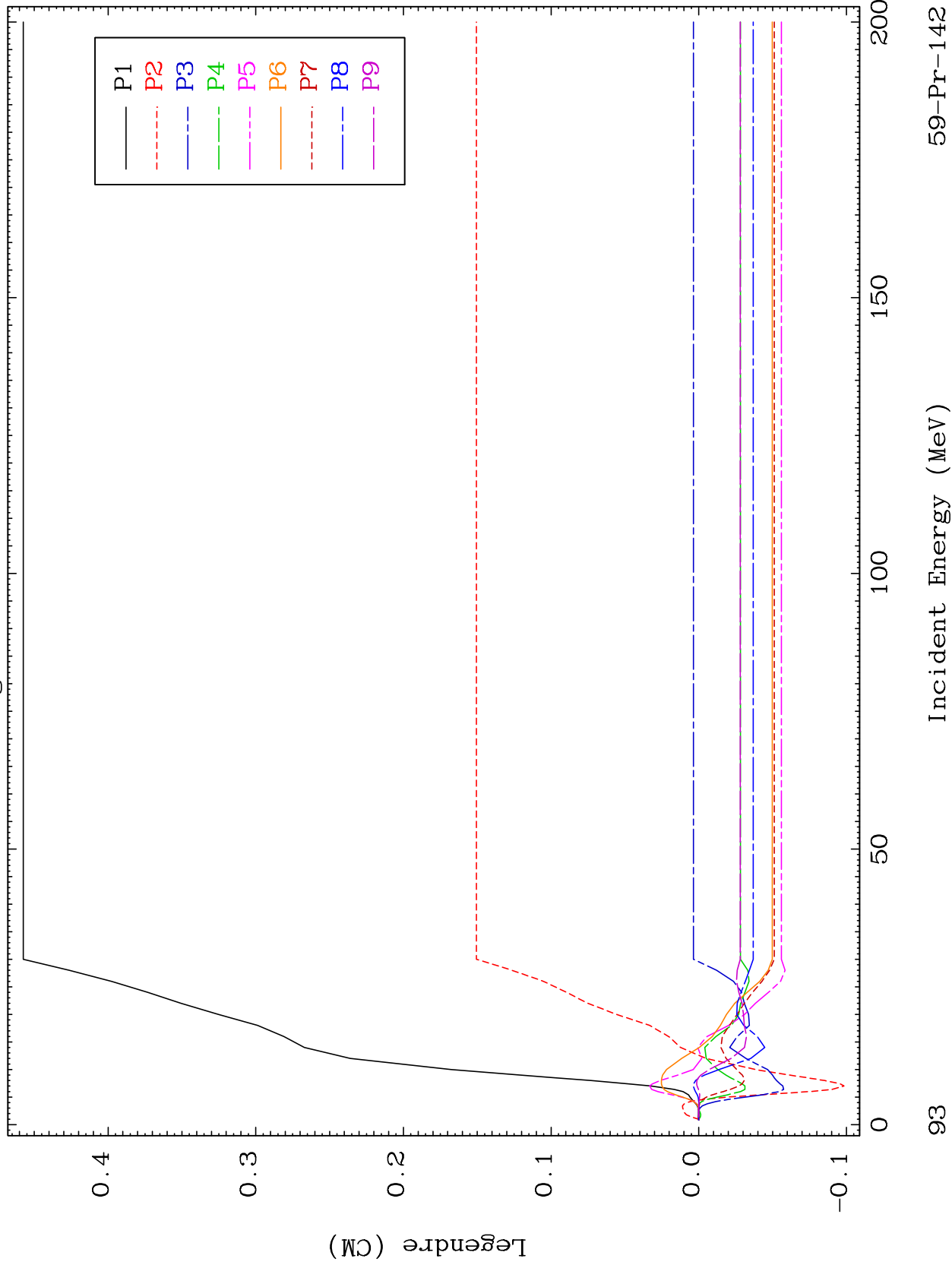
59-Pr-142

Incident Energy (MeV)

90



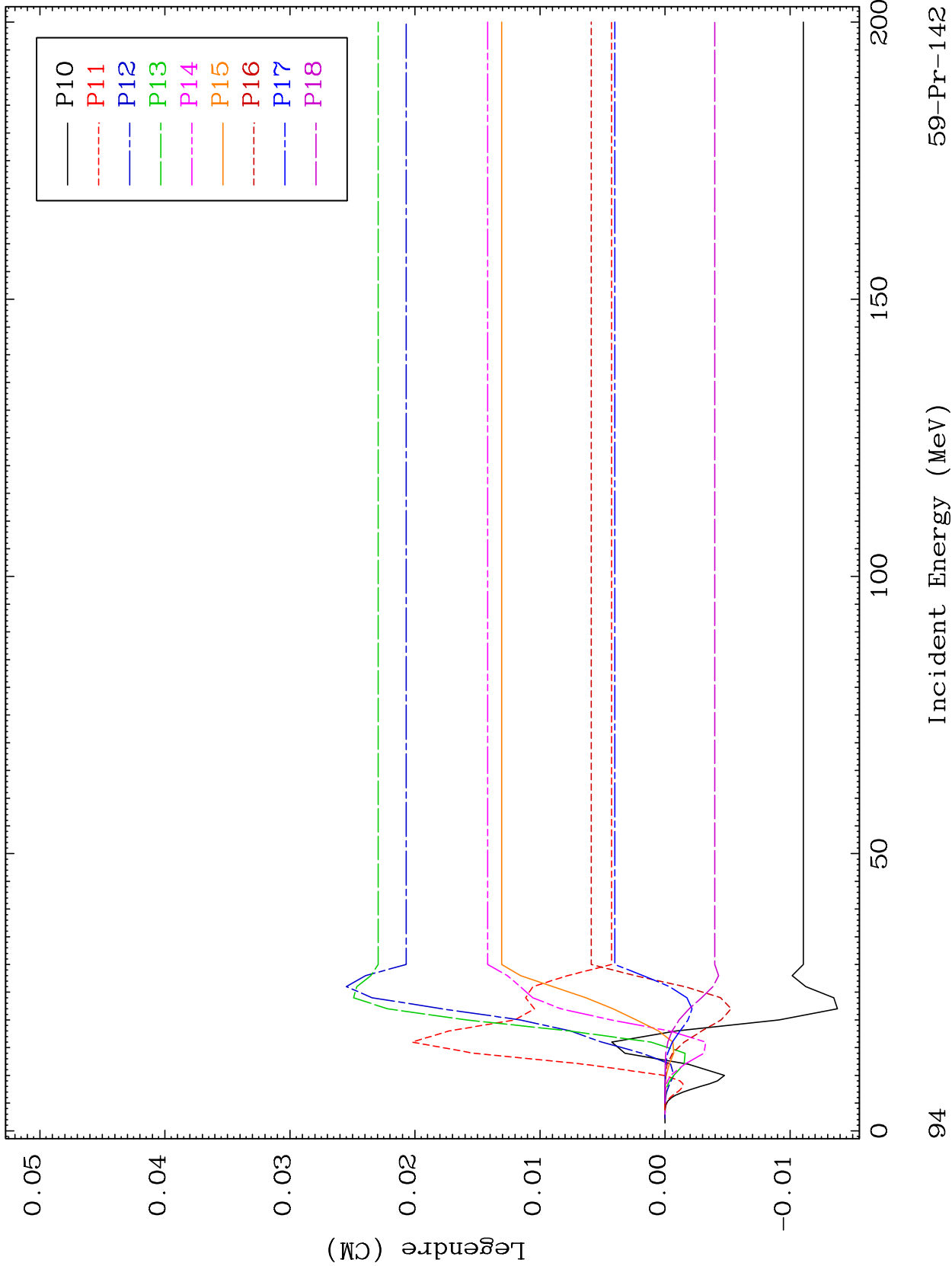




MAT 5928

823.2 keV (n,n') Level  
Legendre Coefficients

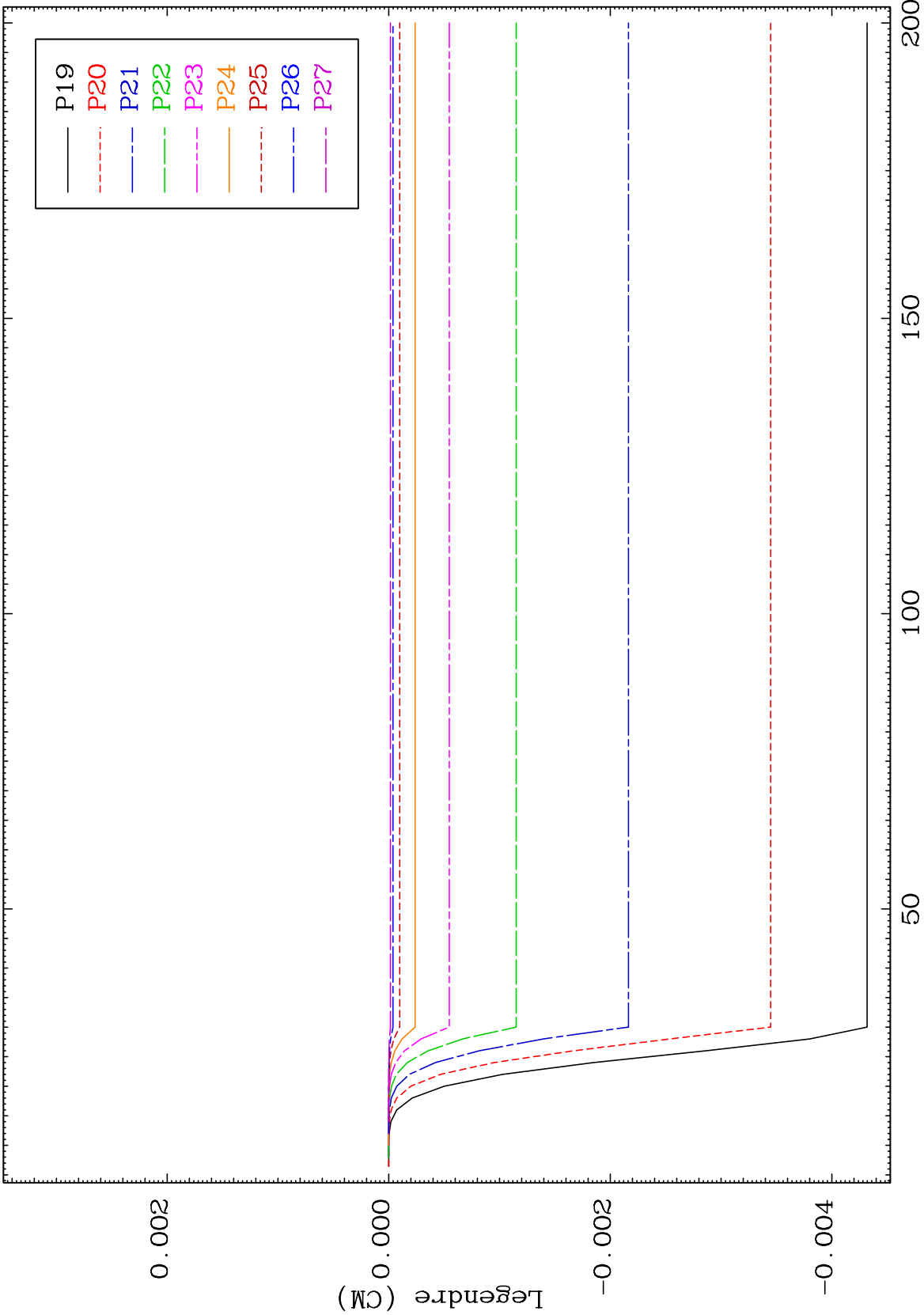
59-Pr-142



94

Incident Energy (MeV)

59-Pr-142

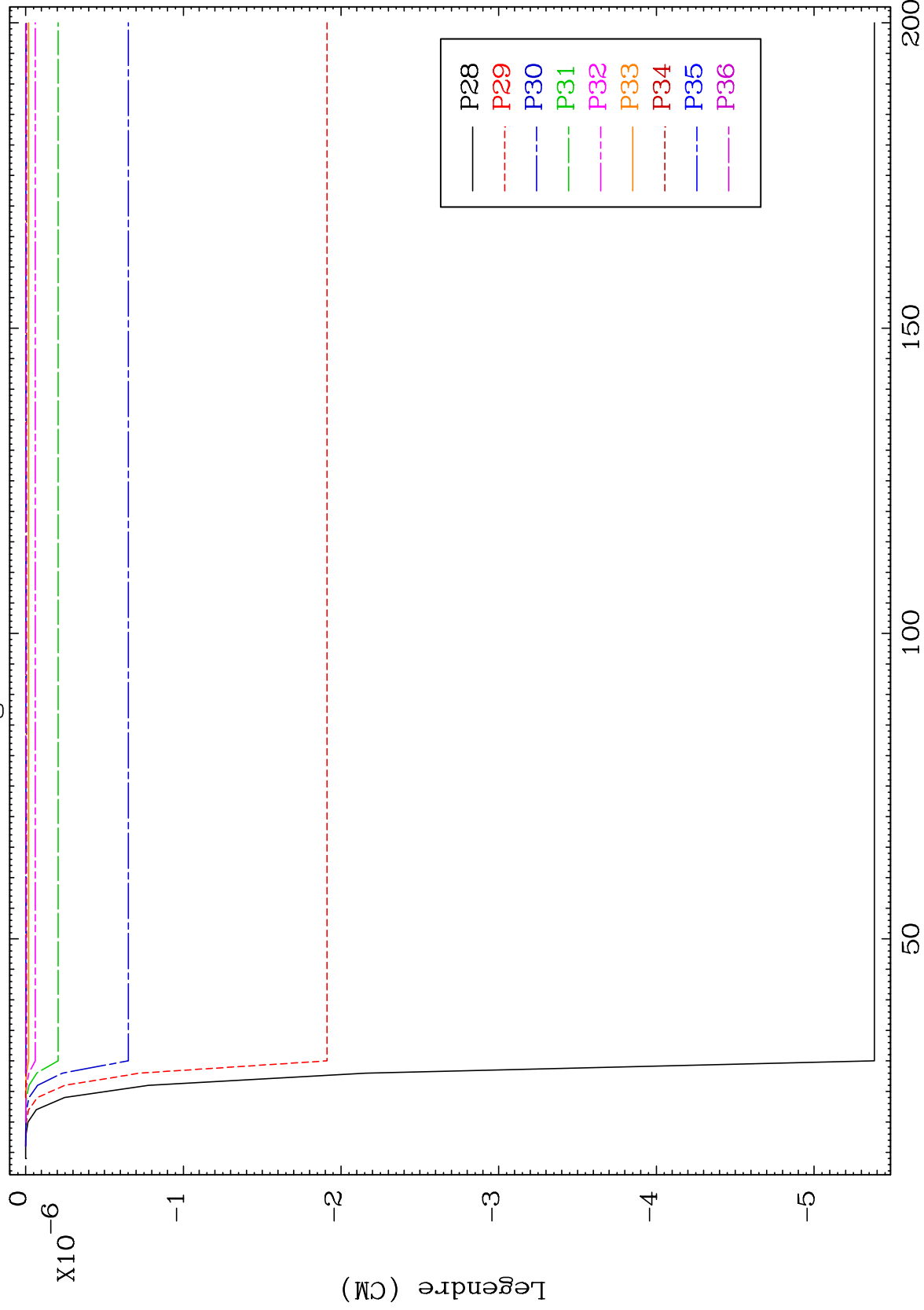




MAT 5928

823.2 keV (n,n') Level  
Legendre Coefficients

59-Pr-142



96

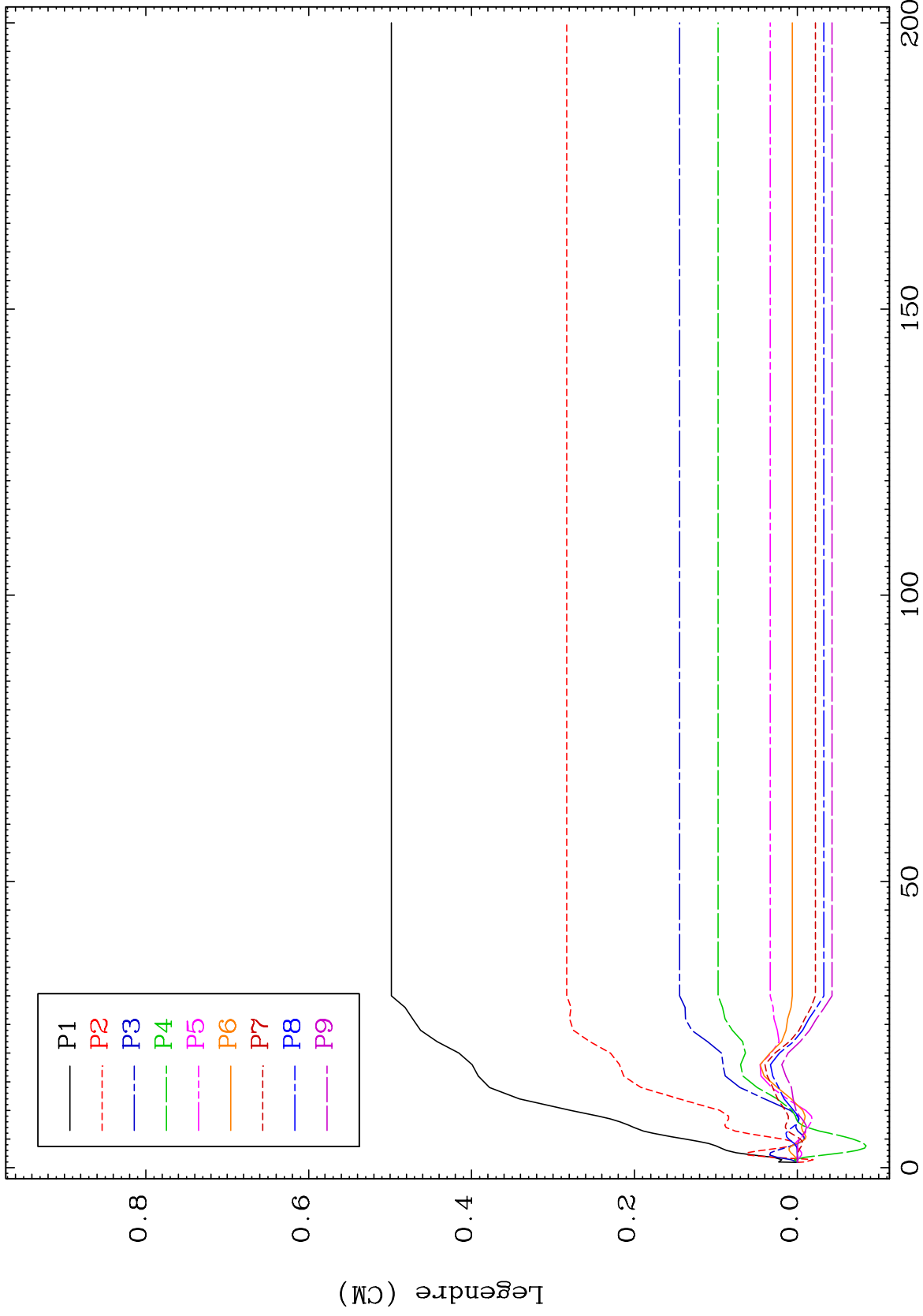
Incident Energy (MeV)

59-Pr-142

MAT 5928

890.0 keV (n,n') Level  
Legendre Coefficients

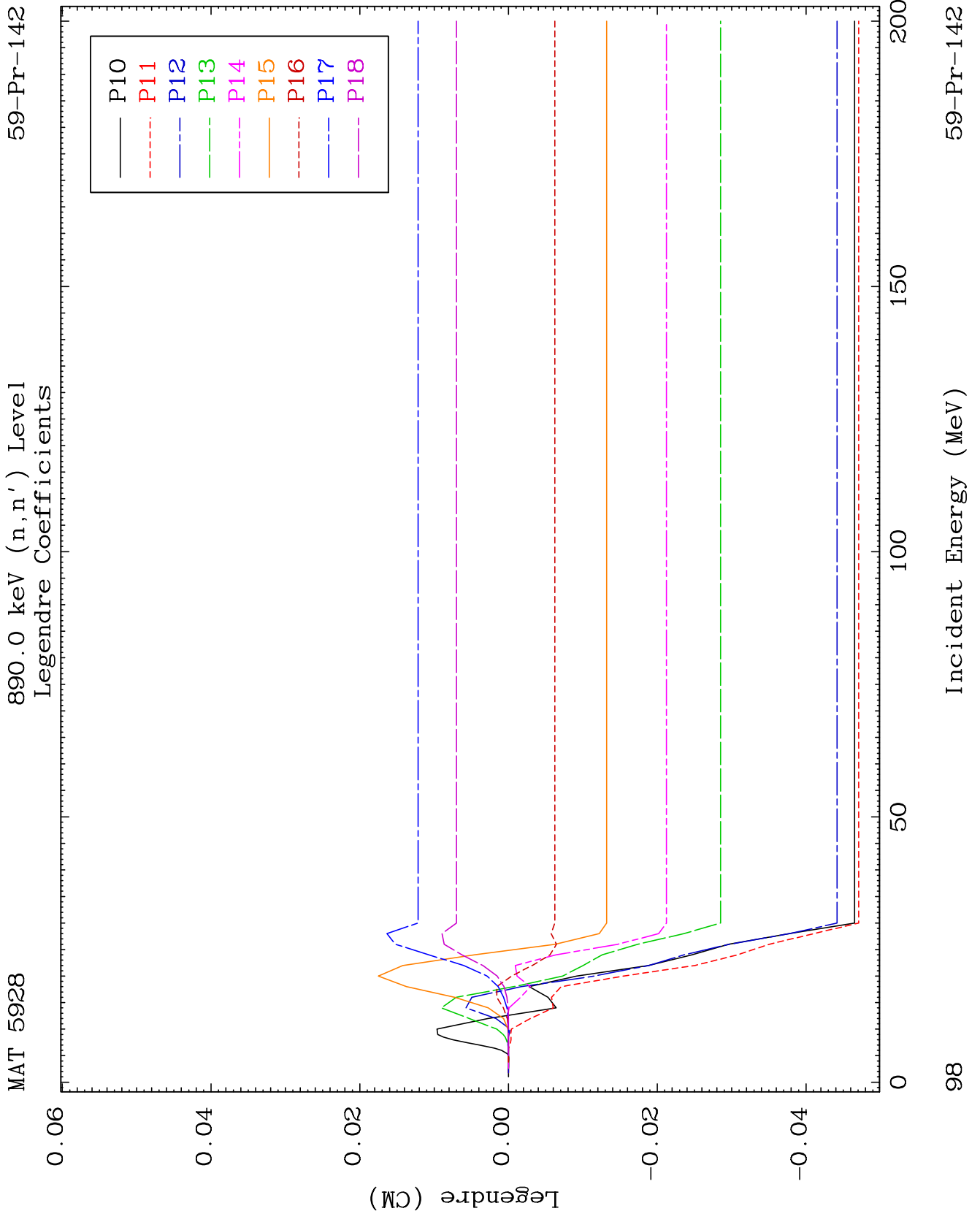
59-Pr-142

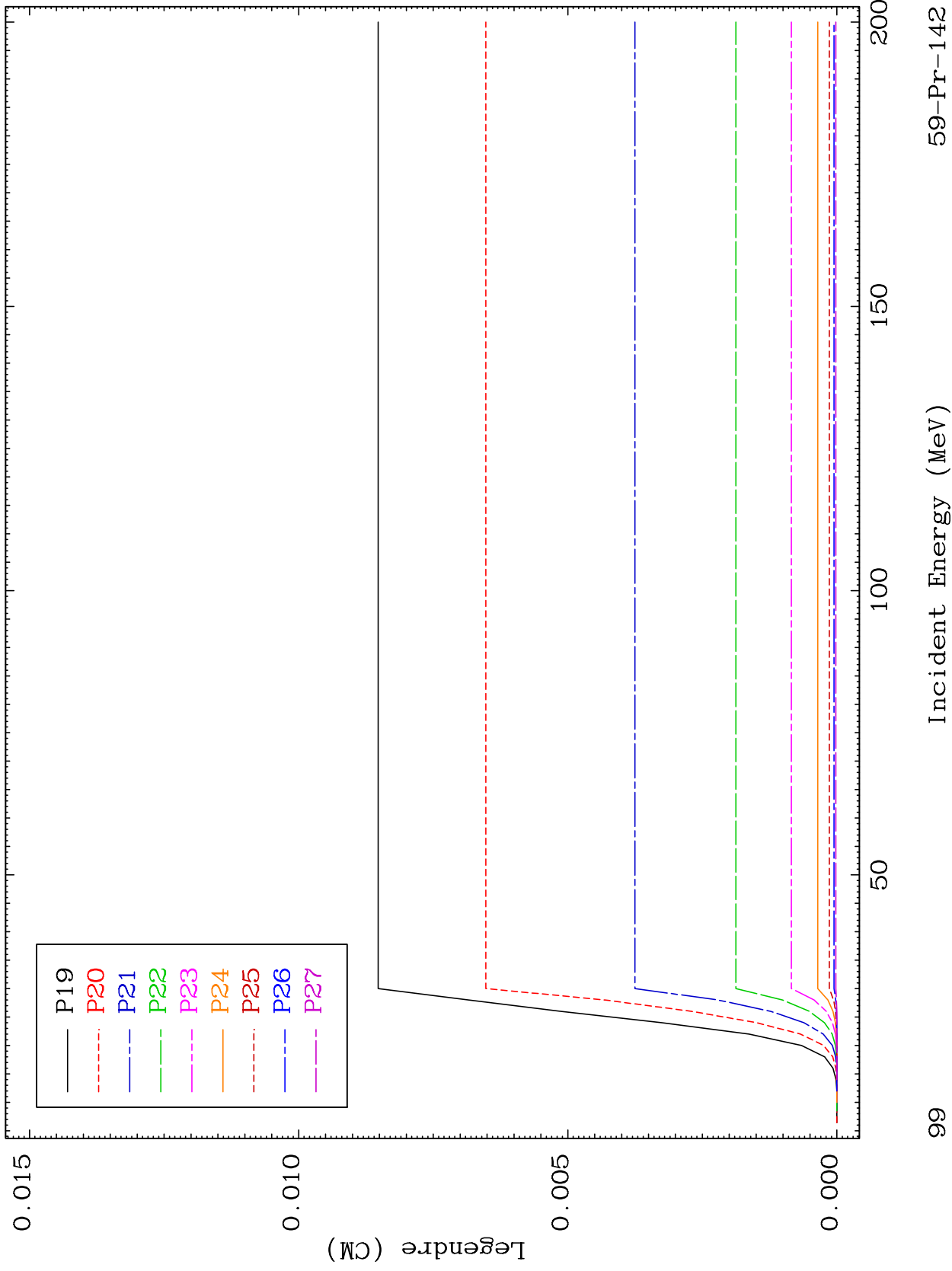


97

Incident Energy (MeV)

59-Pr-142

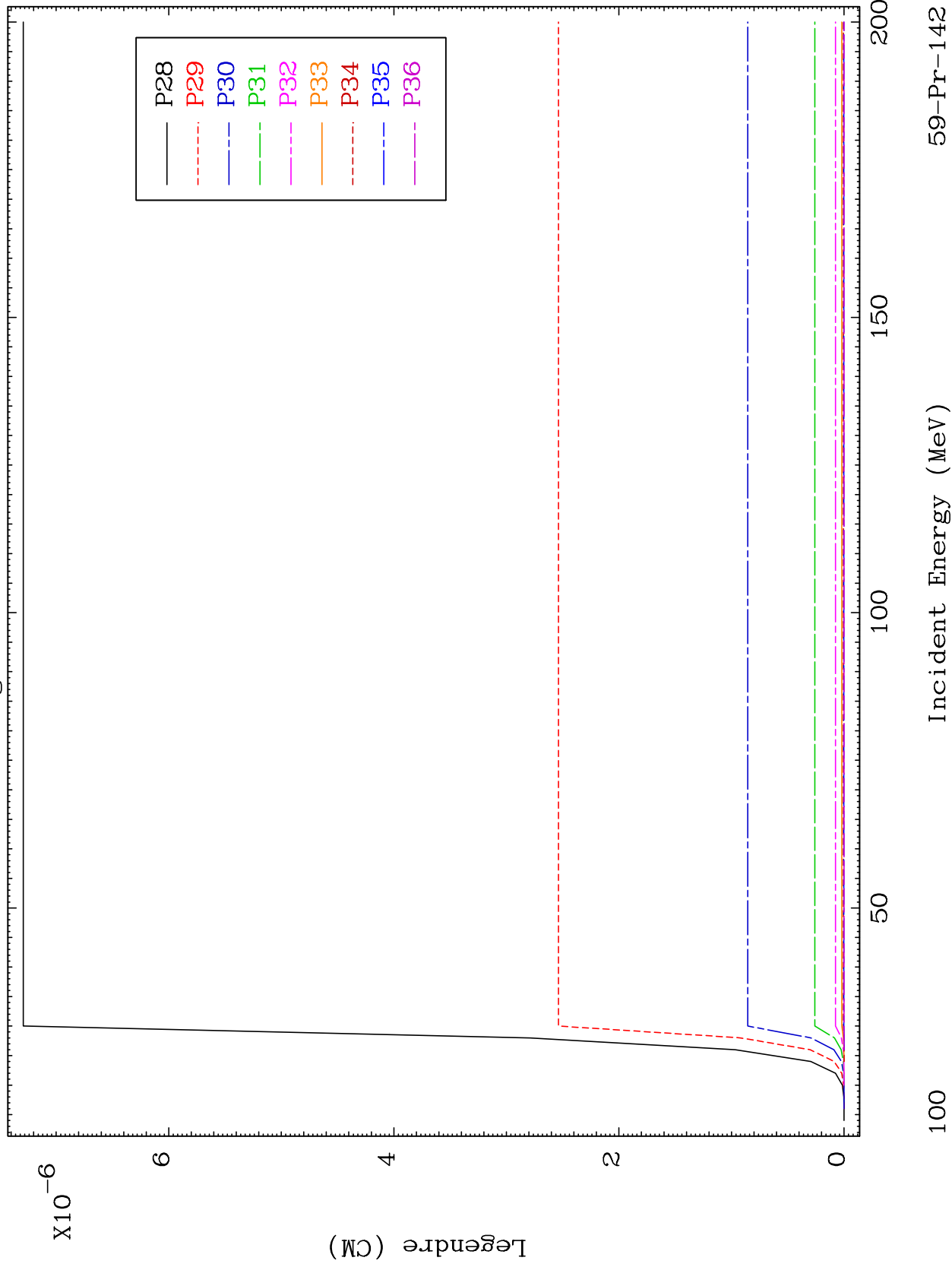




MAT 5928

890.0 keV (n,n') Level  
Legendre Coefficients

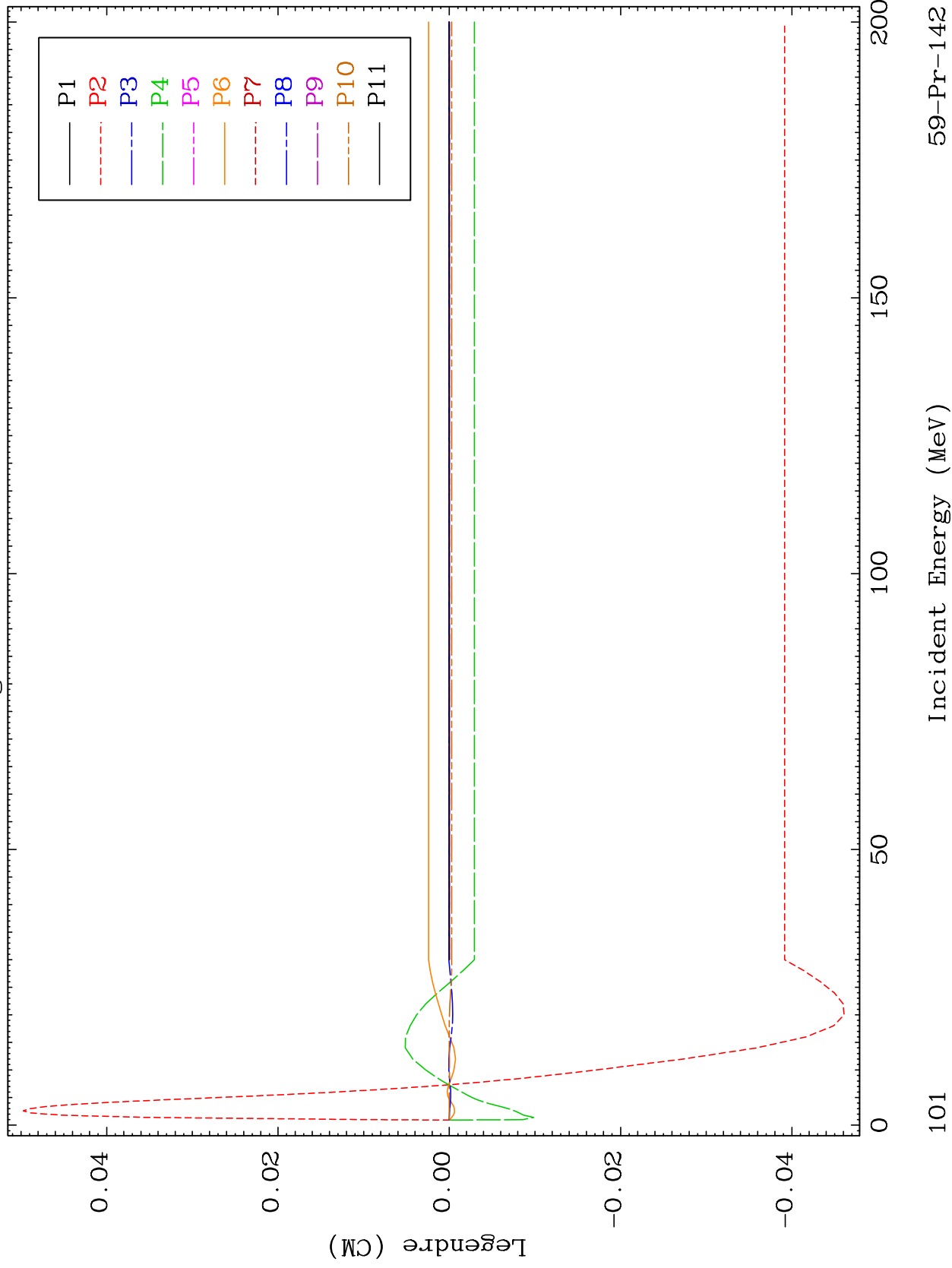
59-Pr-142



MAT 5928

911.4 keV (n,n') Level  
Legendre Coefficients

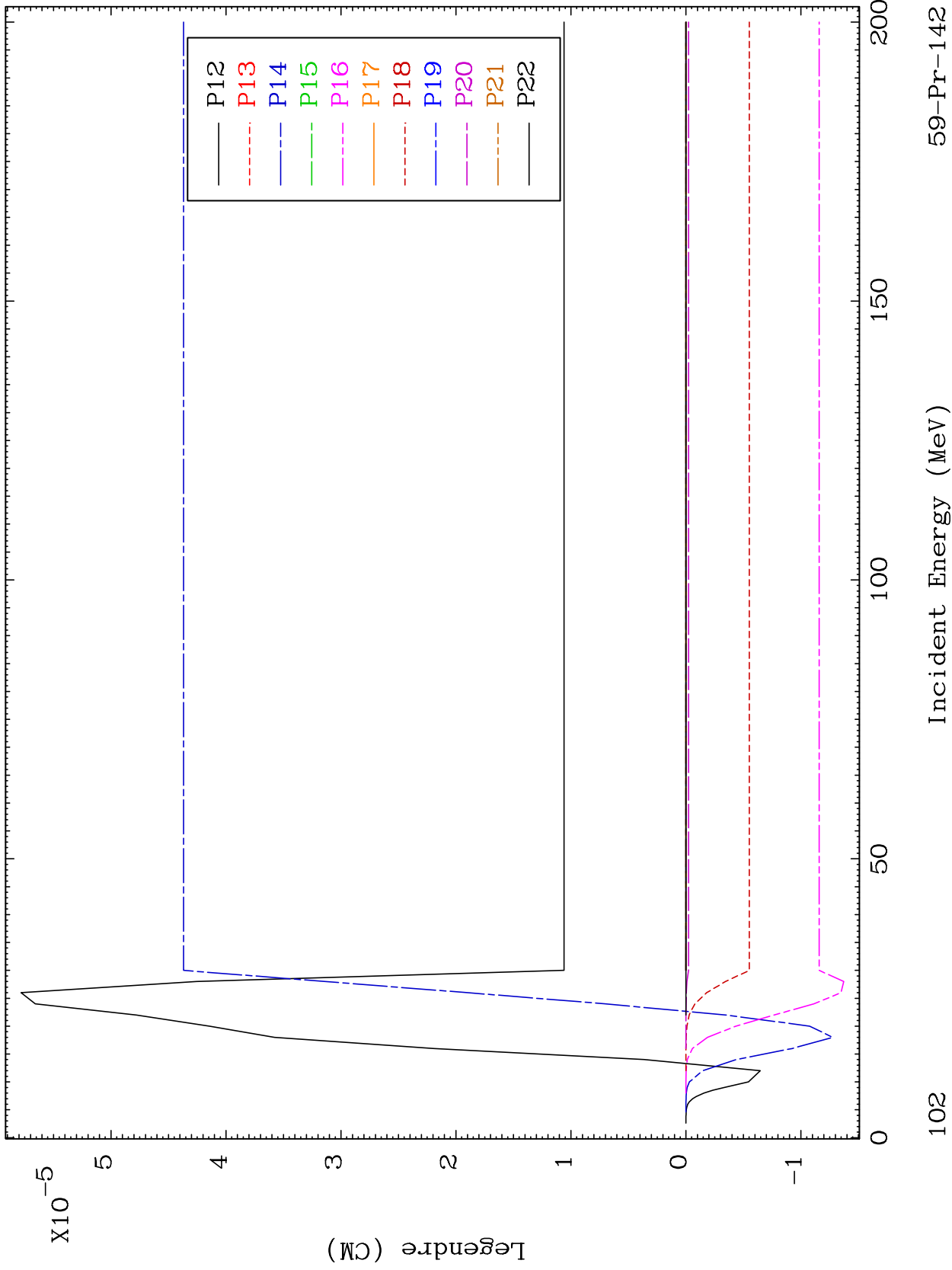
59-Pr-142



59-Pr-142

Incident Energy (MeV)

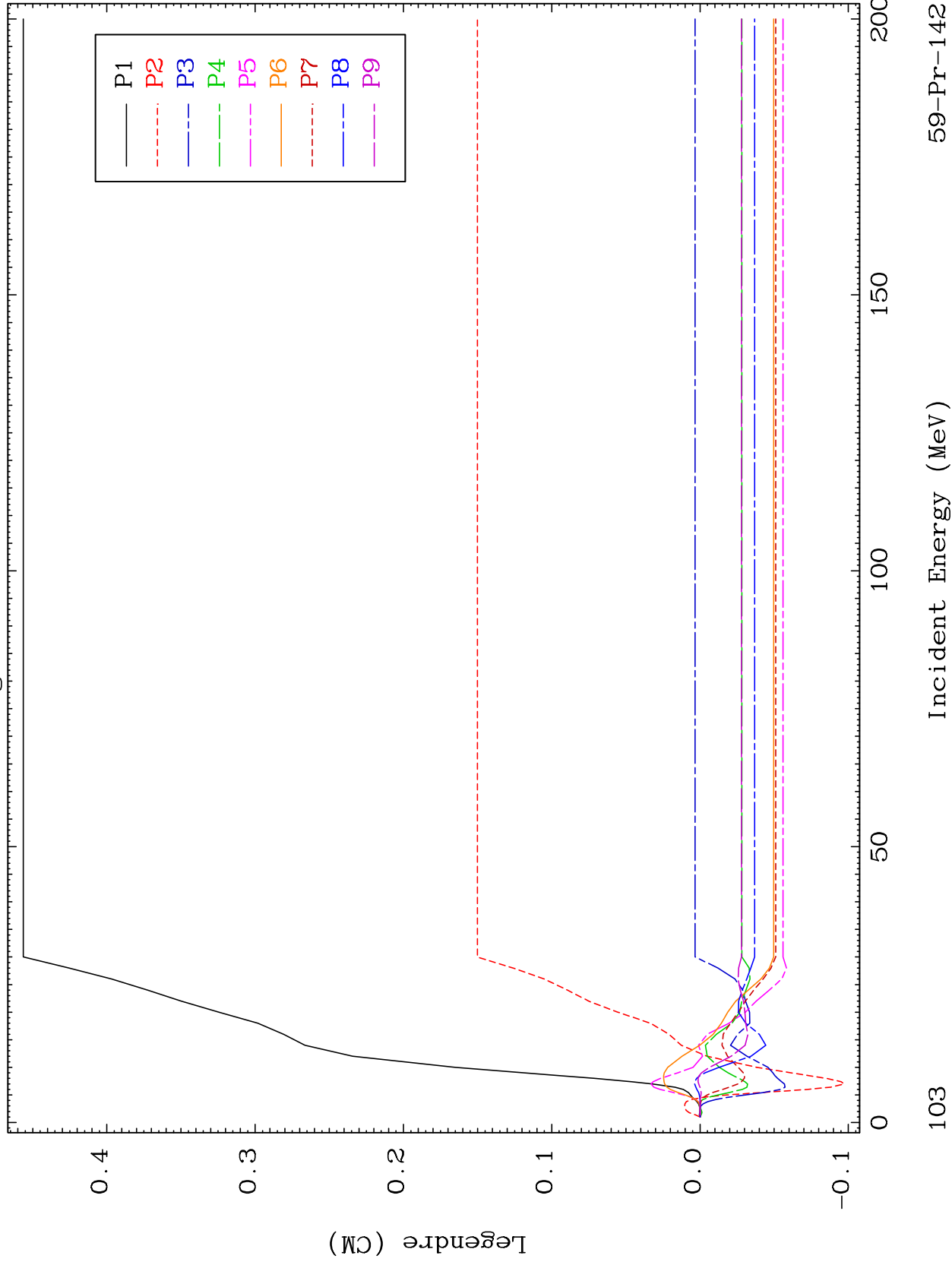
101



MAT 5928

978.2 keV (n,n') Level  
Legendre Coefficients

59-Pr-142



59-Pr-142

Incident Energy (MeV)

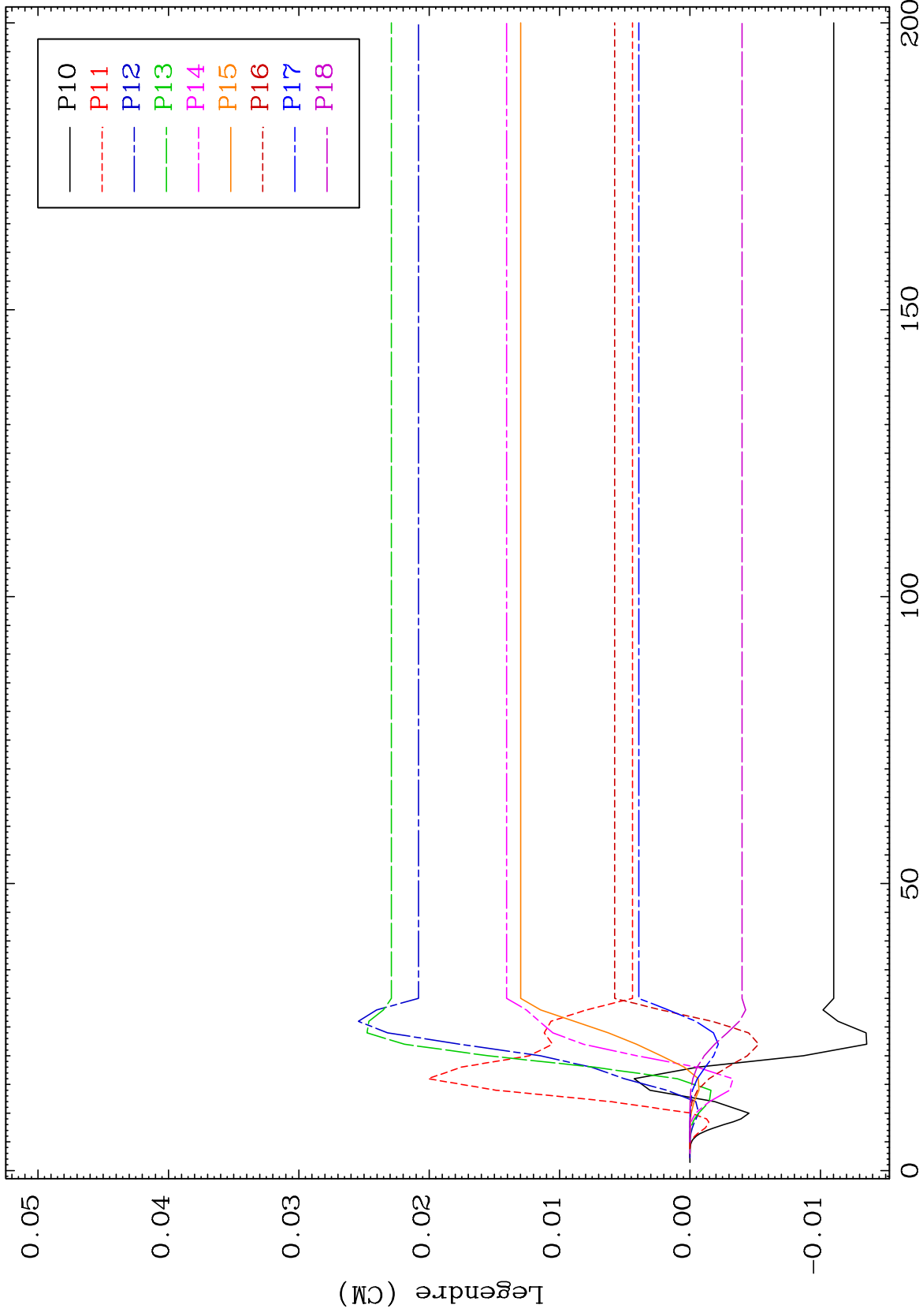
103



MAT 5928

978.2 keV (n,n') Level  
Legendre Coefficients

59-Pr-142



104

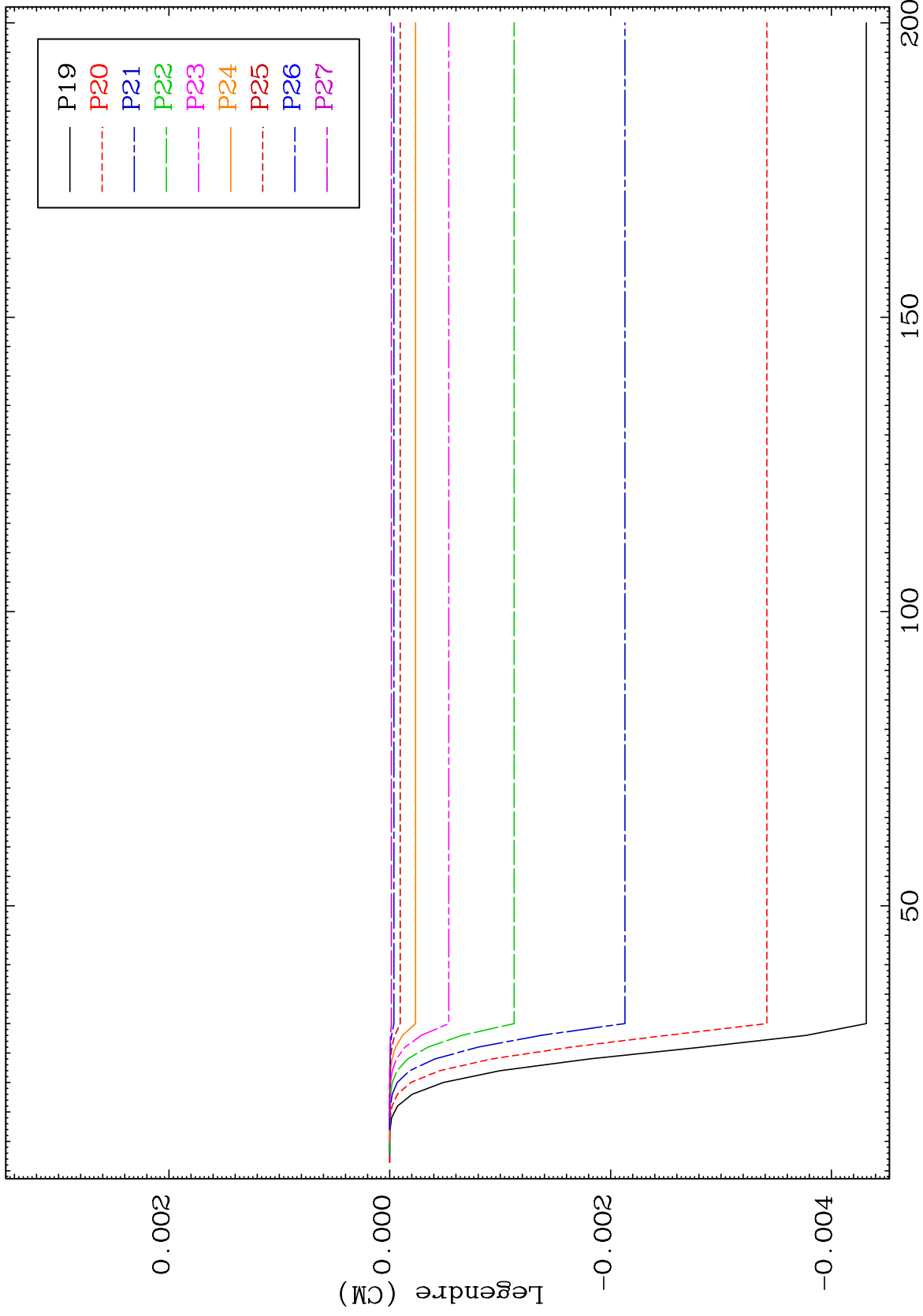
Incident Energy (MeV)

59-Pr-142

MAT 5928

978.2 keV (n,n') Level  
Legendre Coefficients

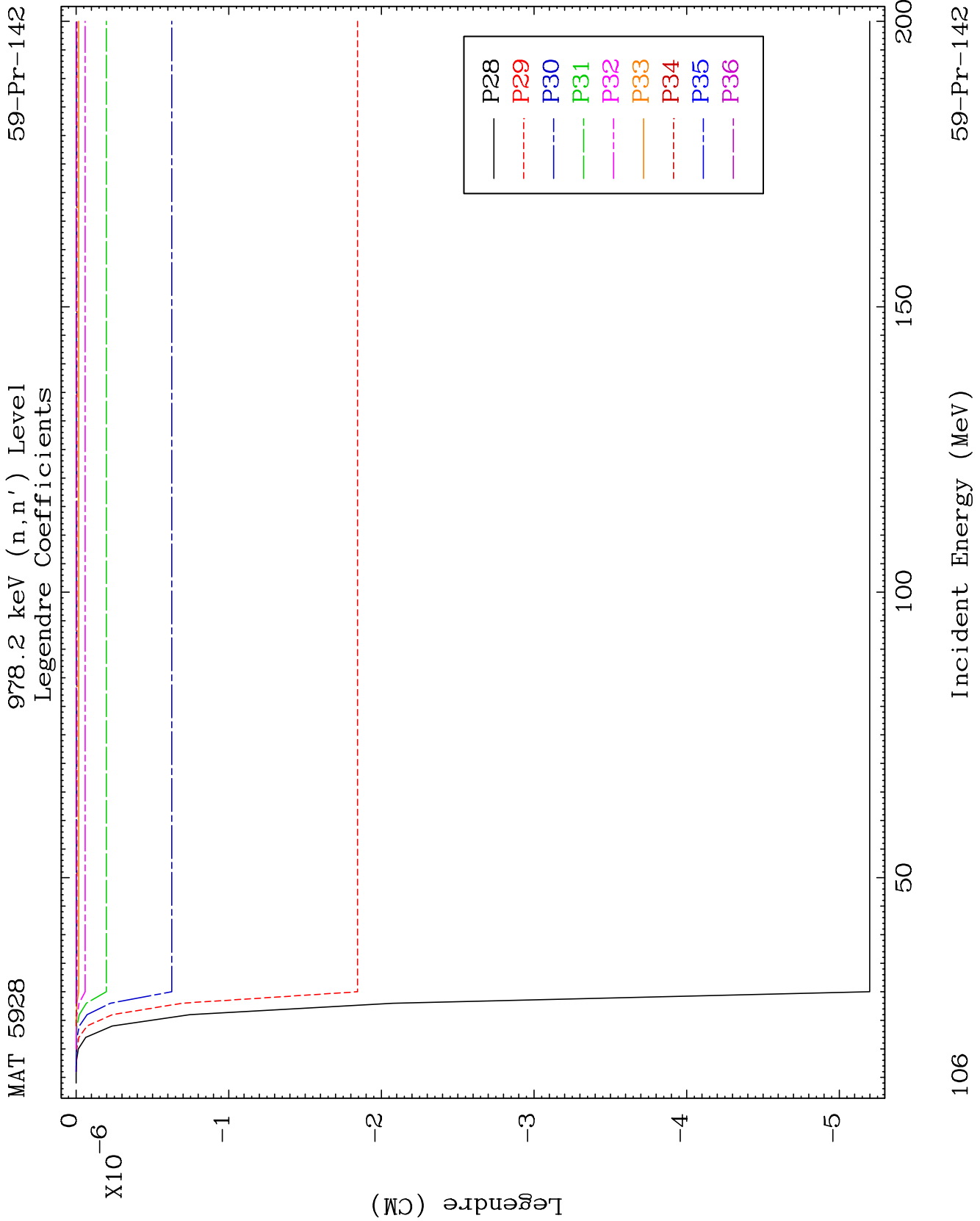
59-Pr-142



105

Incident Energy (MeV)

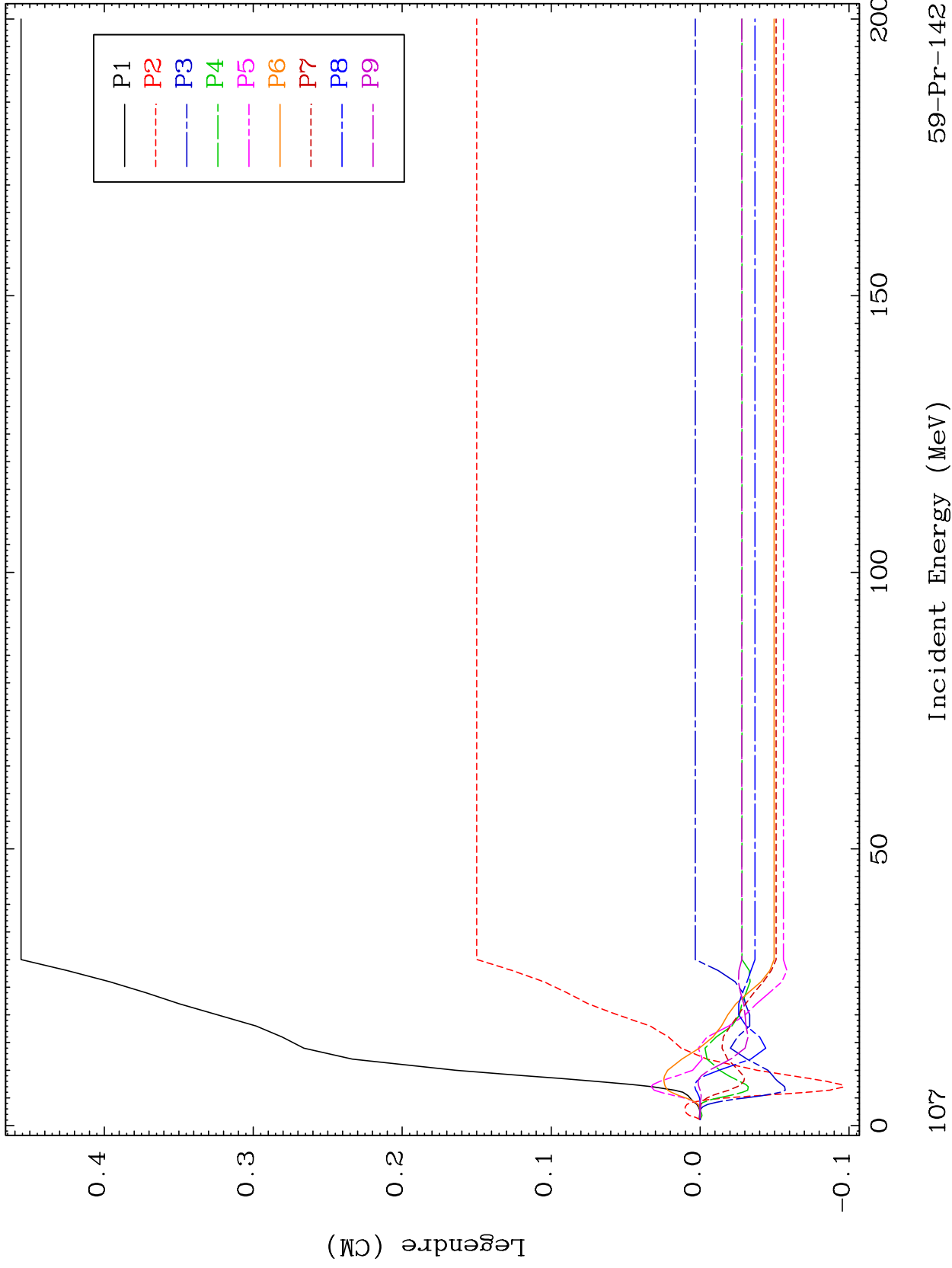
59-Pr-142



MAT 5928

1.042 MeV (n,n') Level  
Legendre Coefficients

59-Pr-142



59-Pr-142

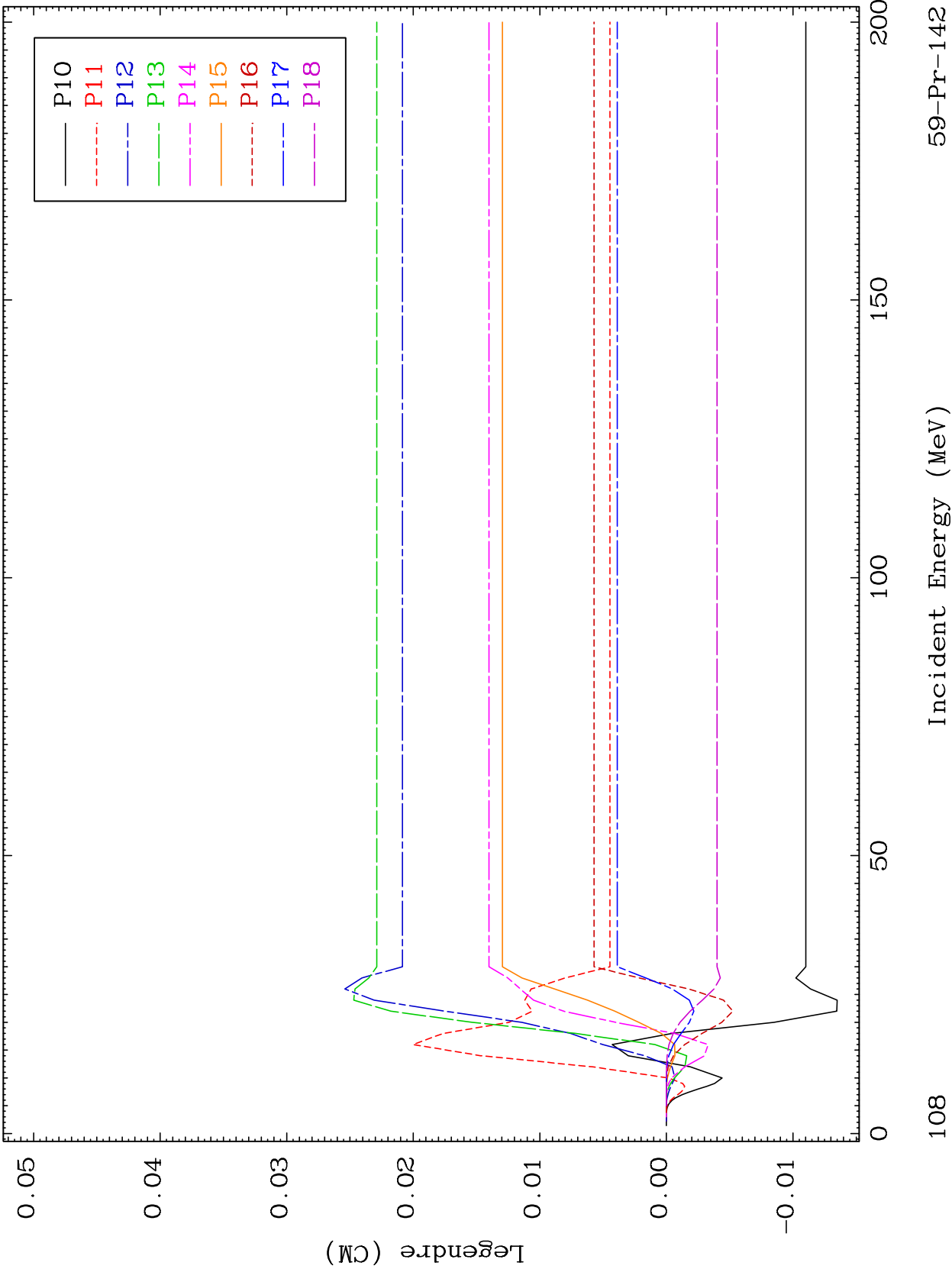
Incident Energy (MeV)

107

MAT 5928

1.042 MeV (n,n') Level  
Legendre Coefficients

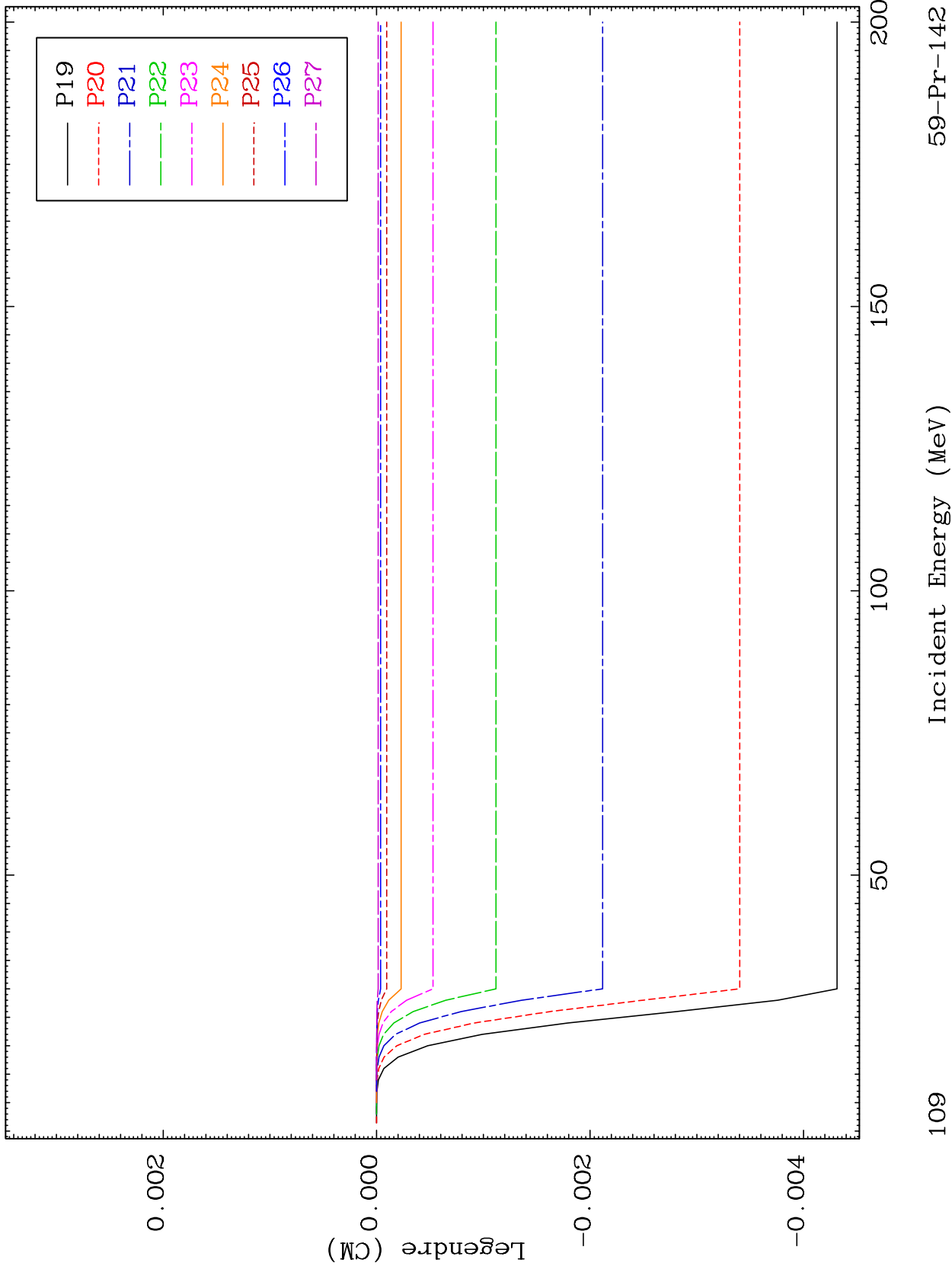
59-Pr-142

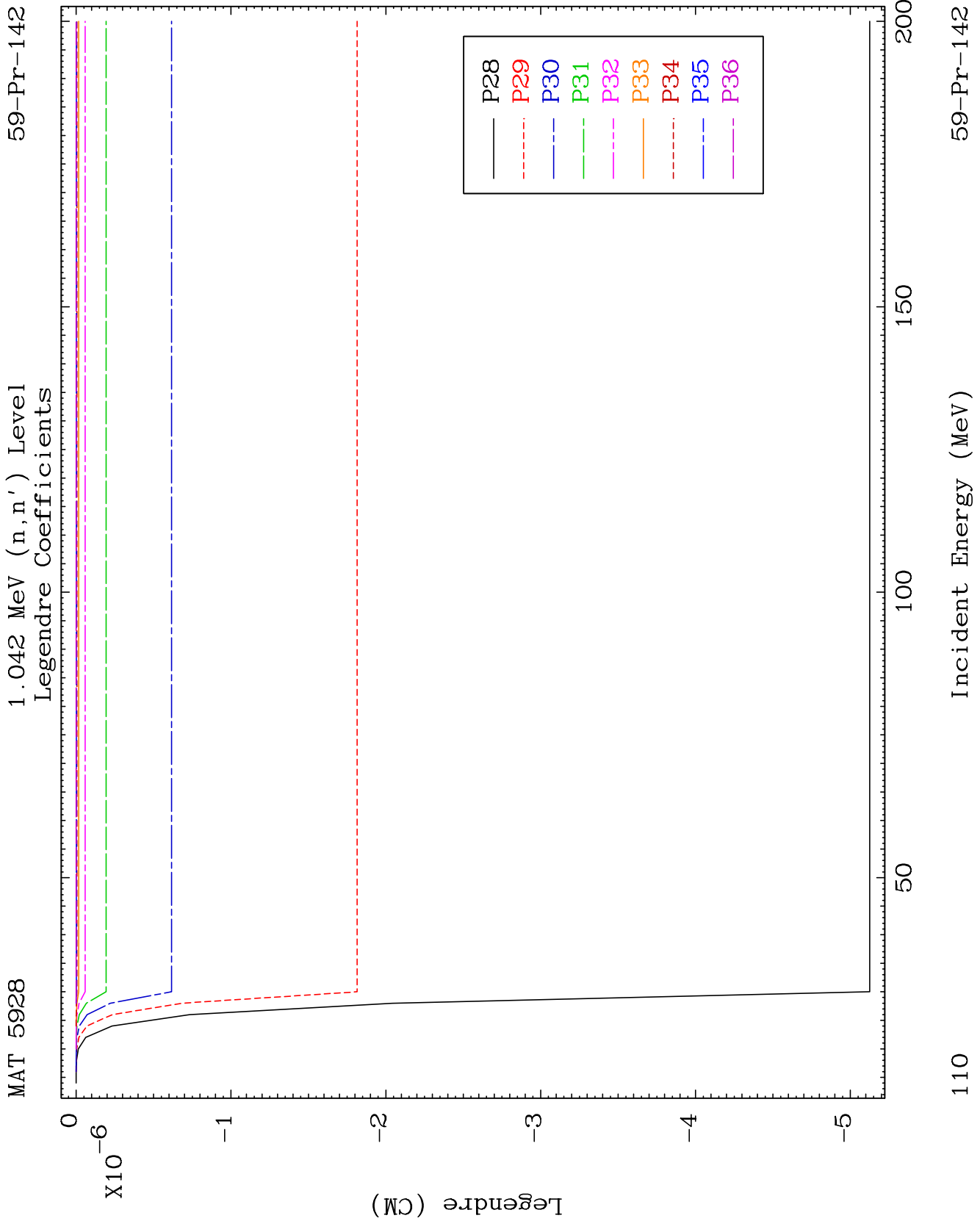


108

Incident Energy (MeV)

59-Pr-142

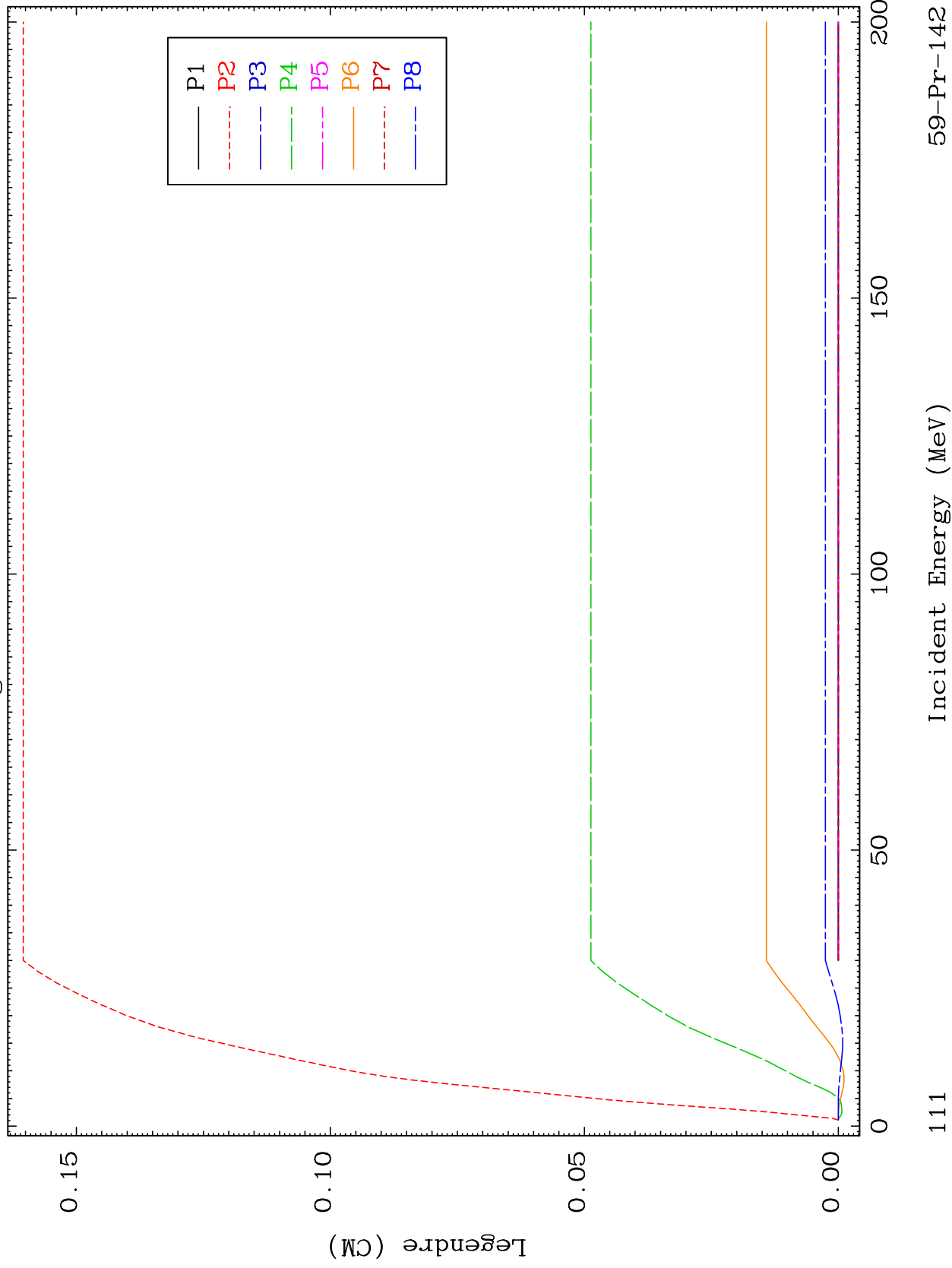




MAT 5928

1.072 MeV (n,n') Level  
Legendre Coefficients

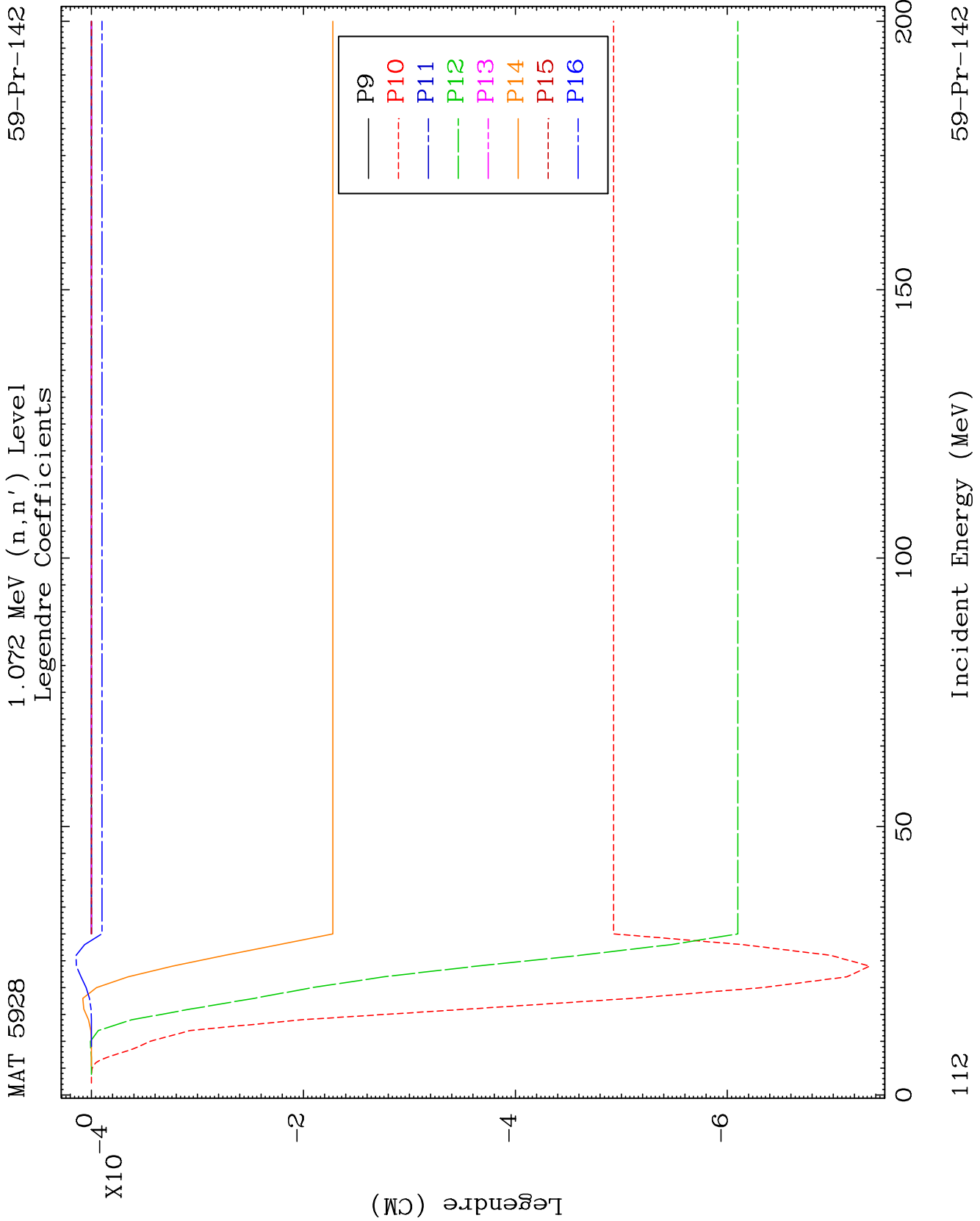
59-Pr-142

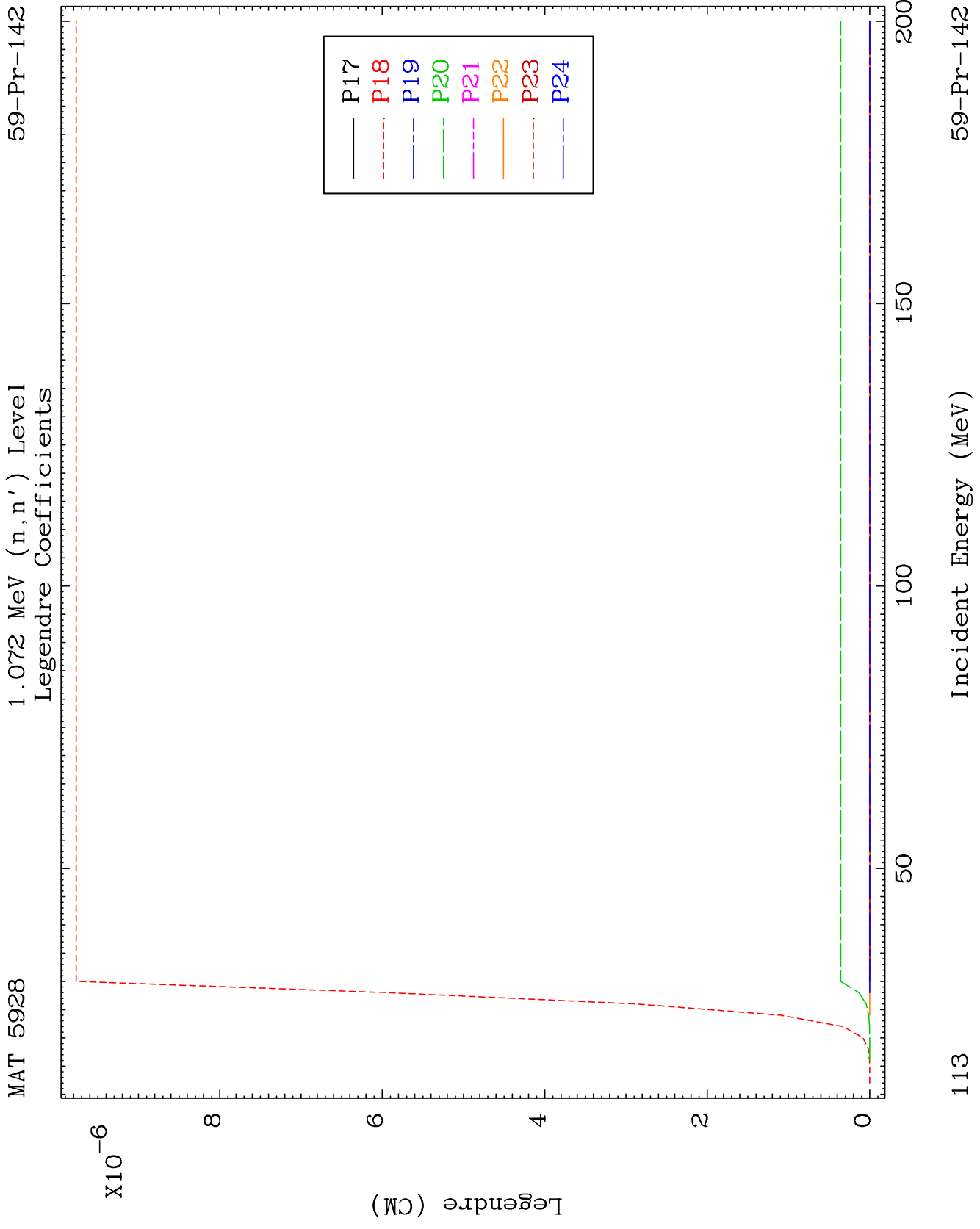


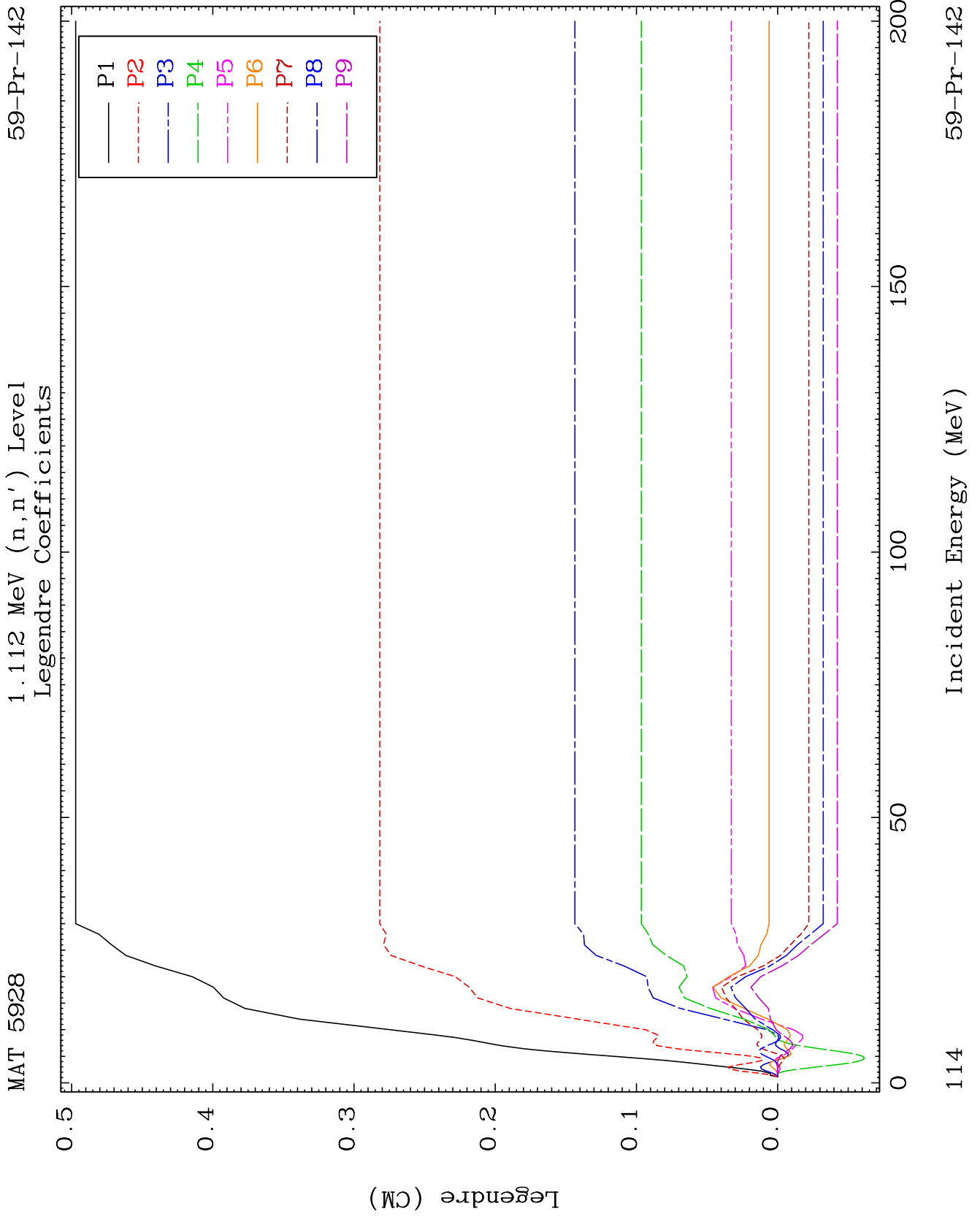
111

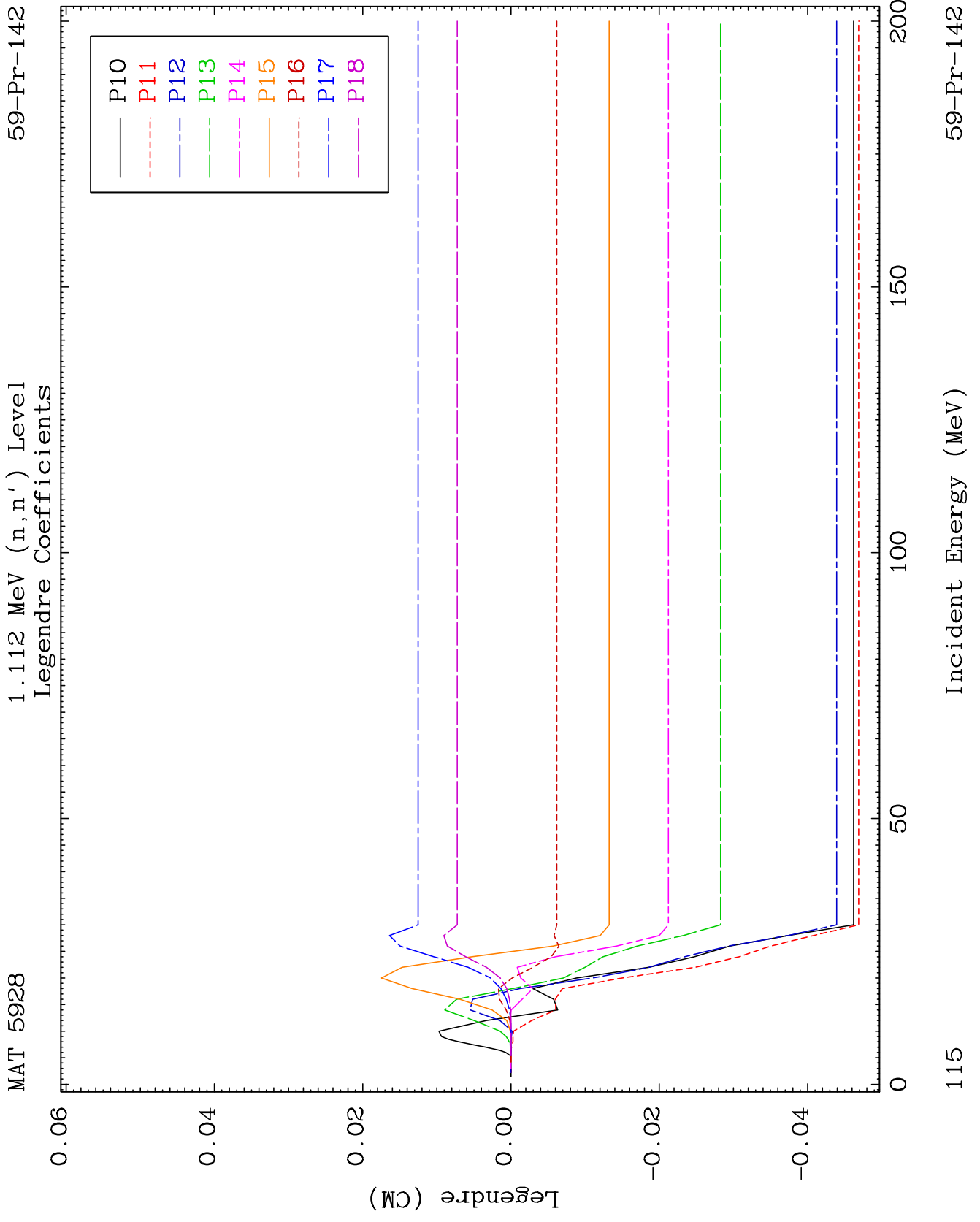
59-Pr-142

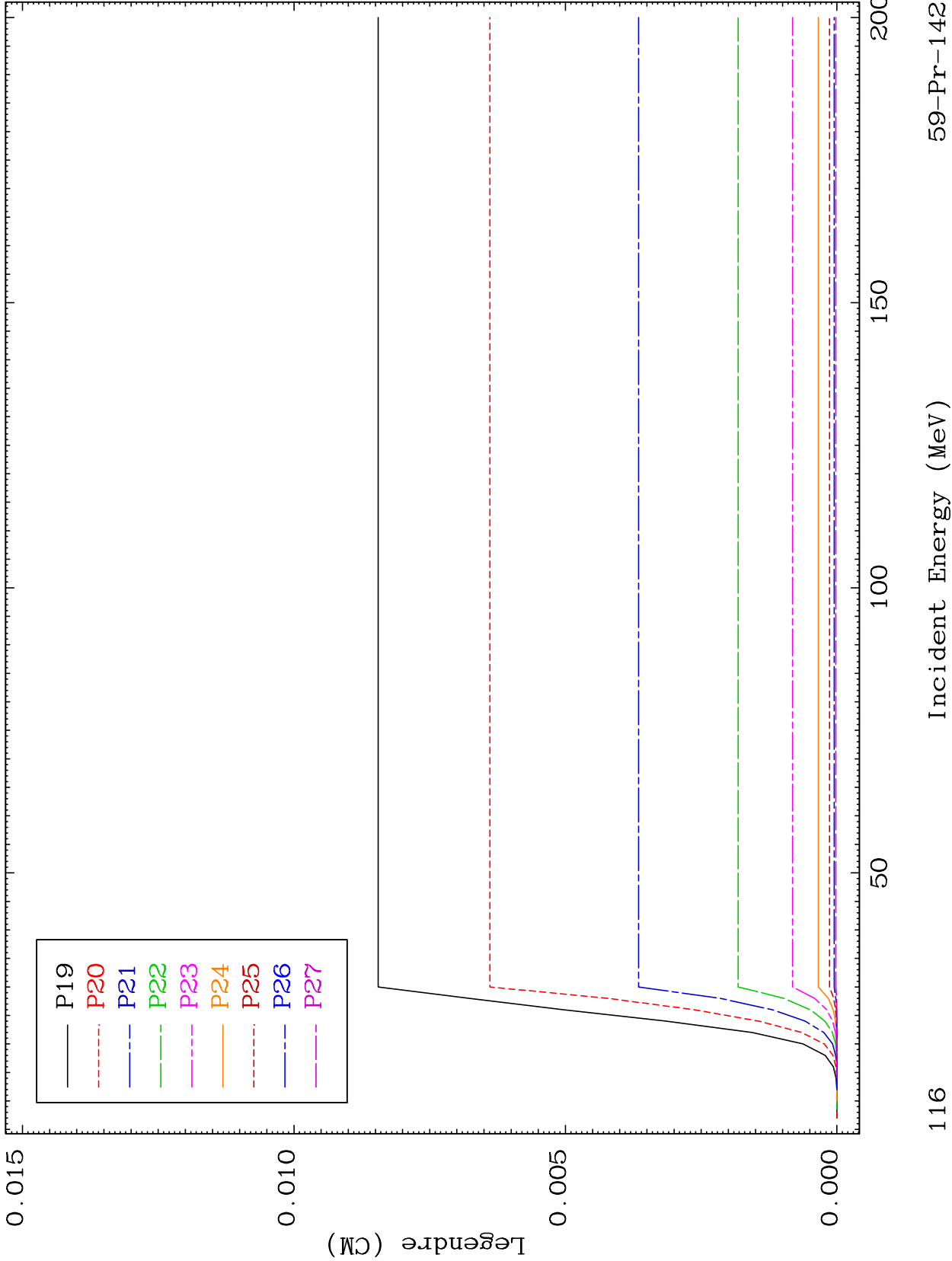








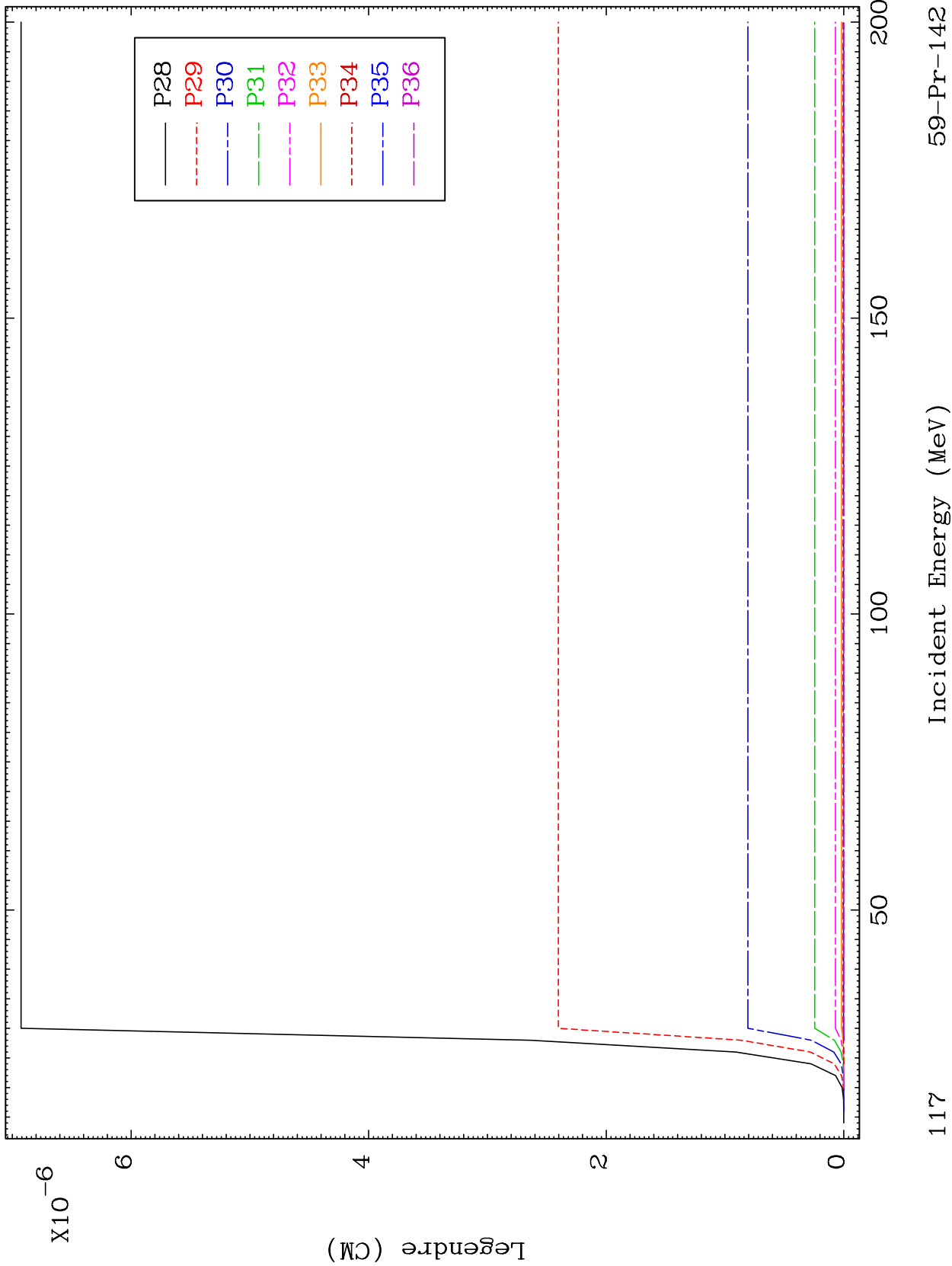


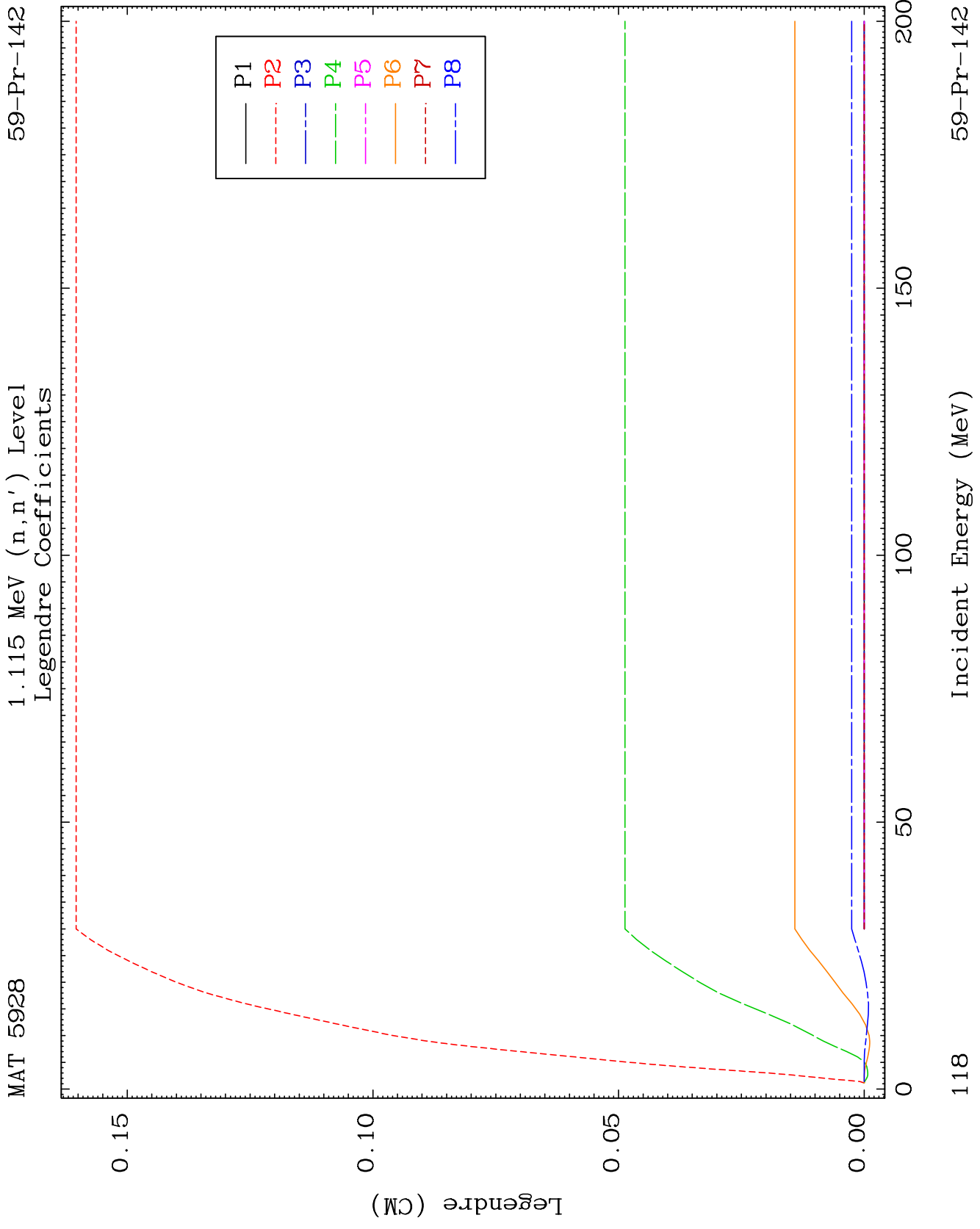


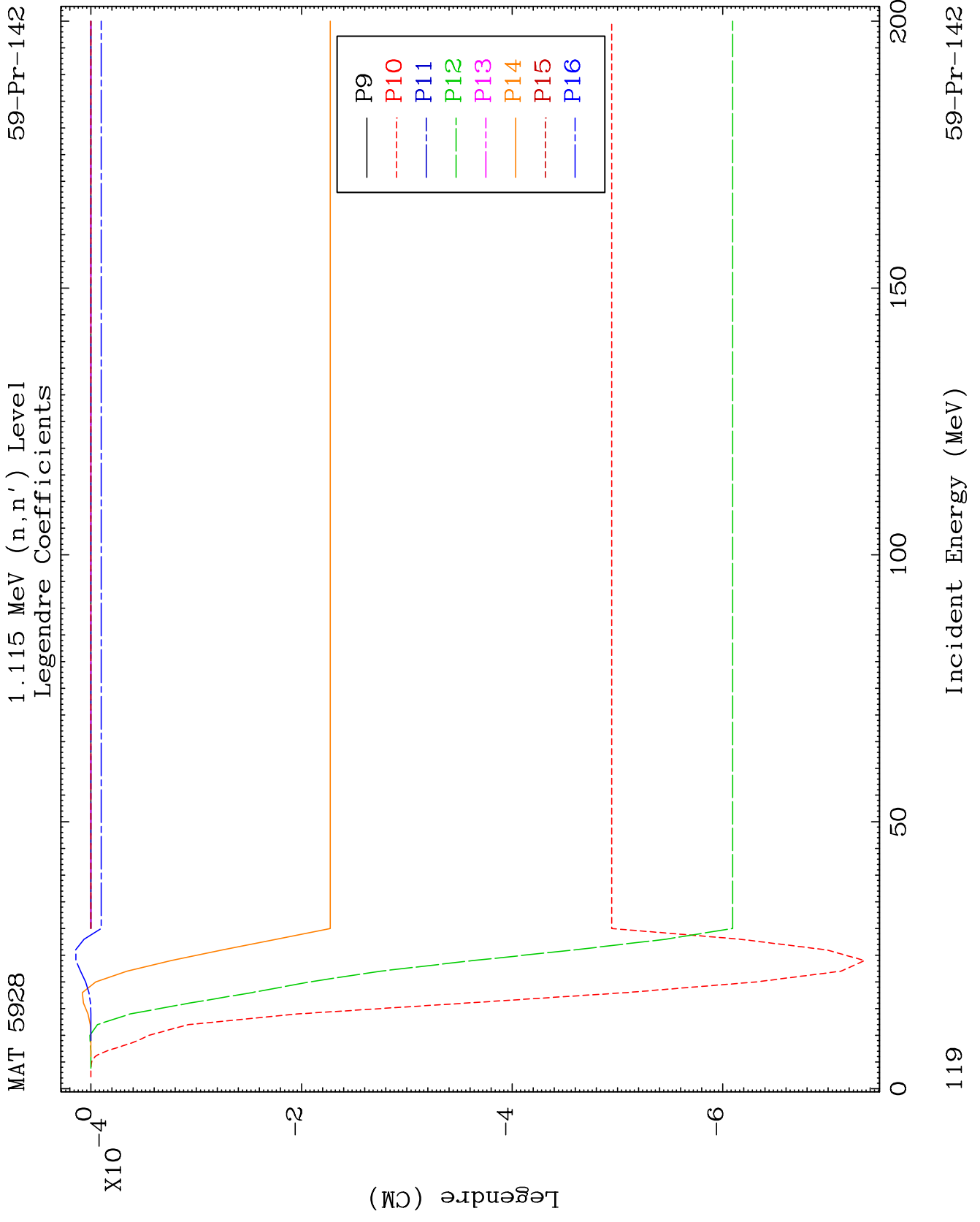
MAT 5928

1.112 MeV (n,n') Level  
Legendre Coefficients

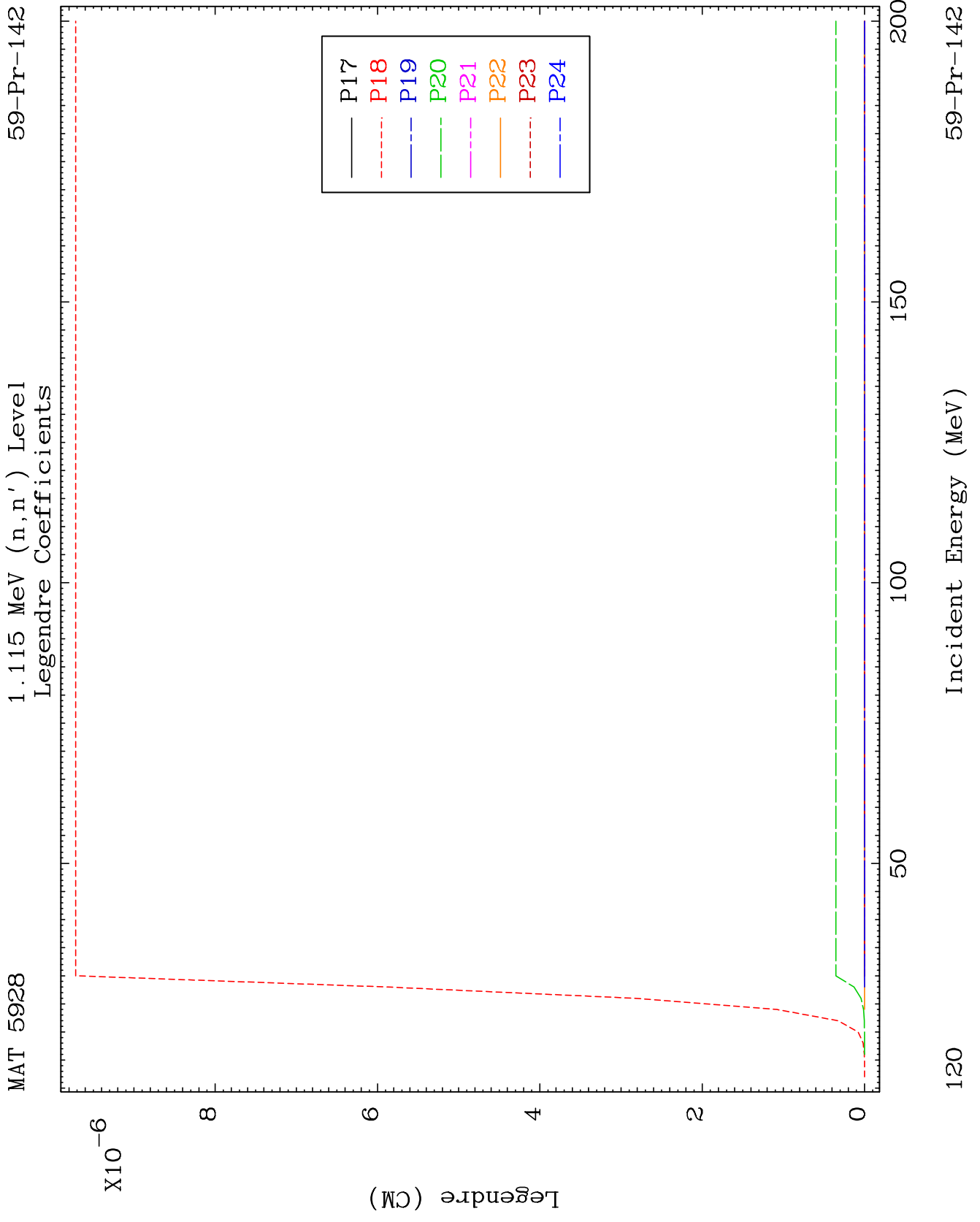
59-Pr-142







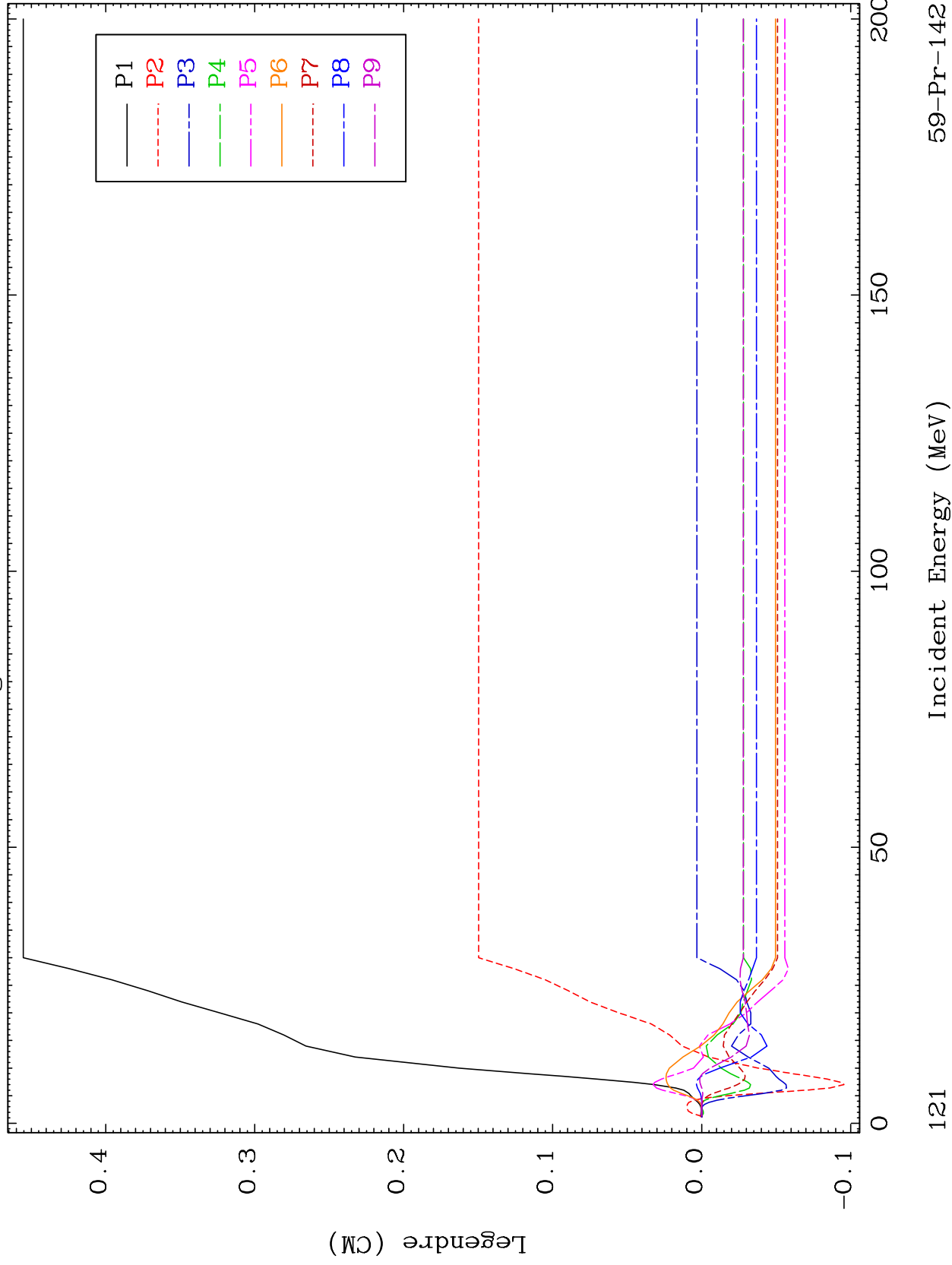




MAT 5928

1.120 MeV (n,n') Level  
Legendre Coefficients

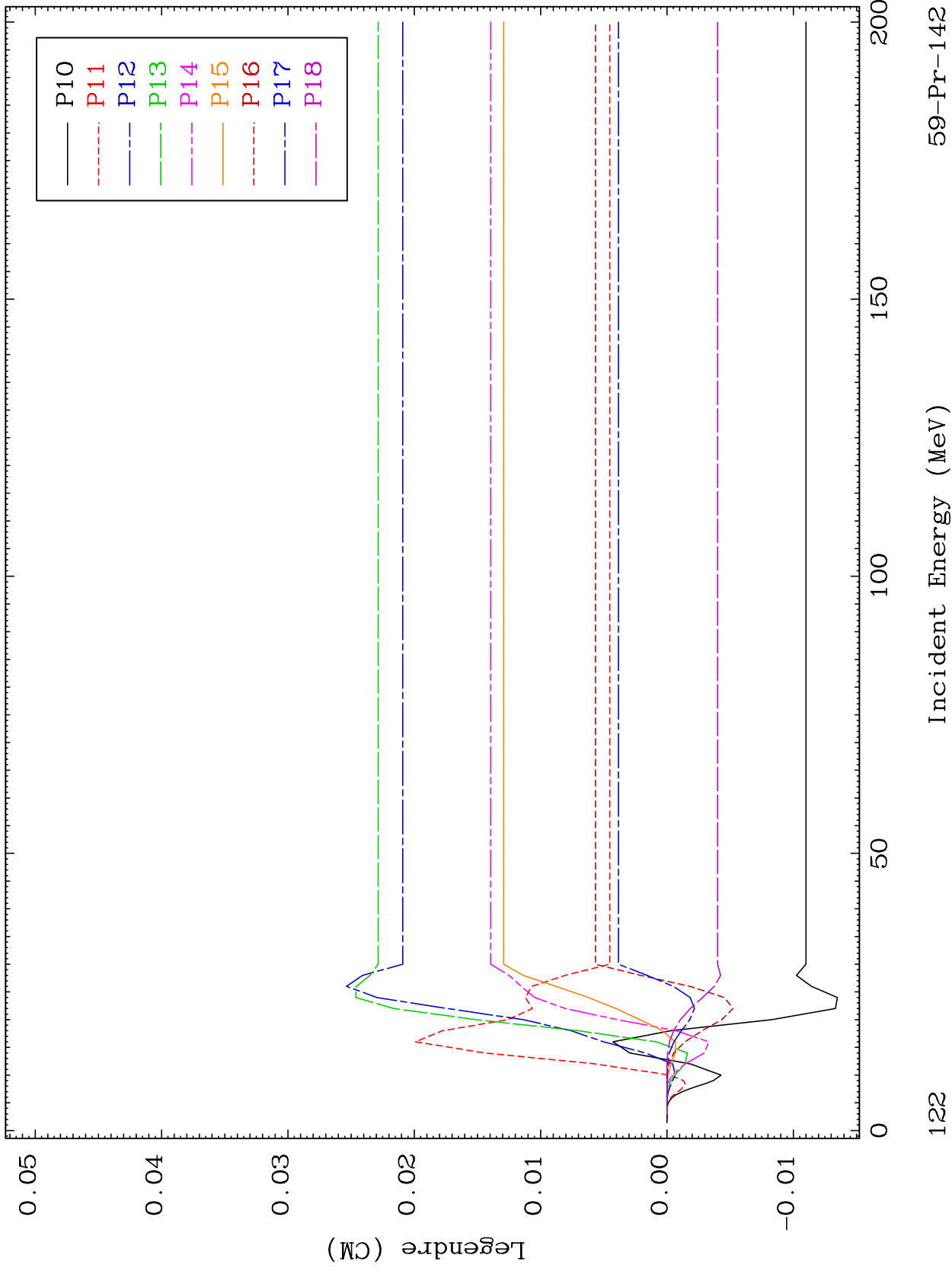
59-Pr-142

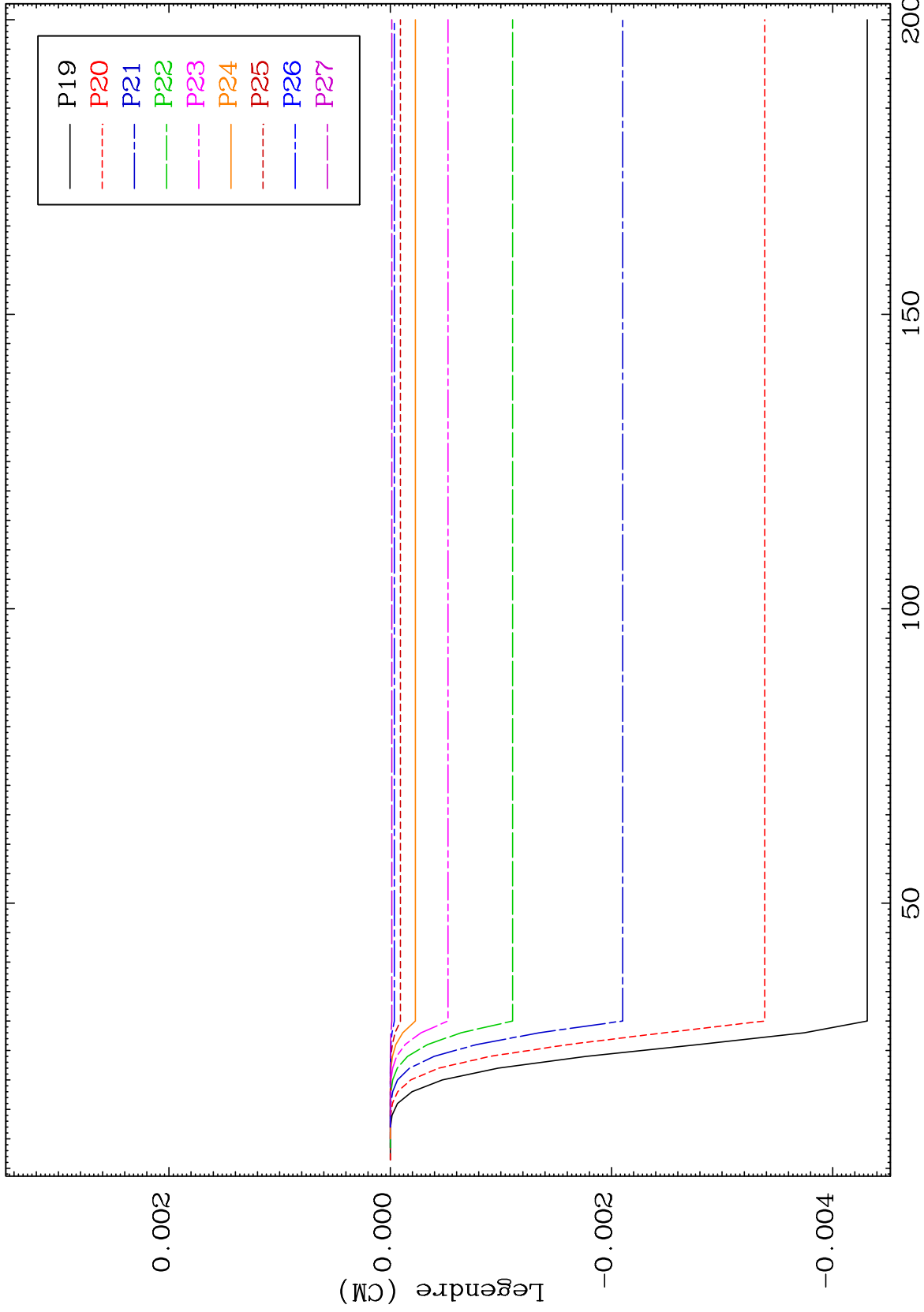


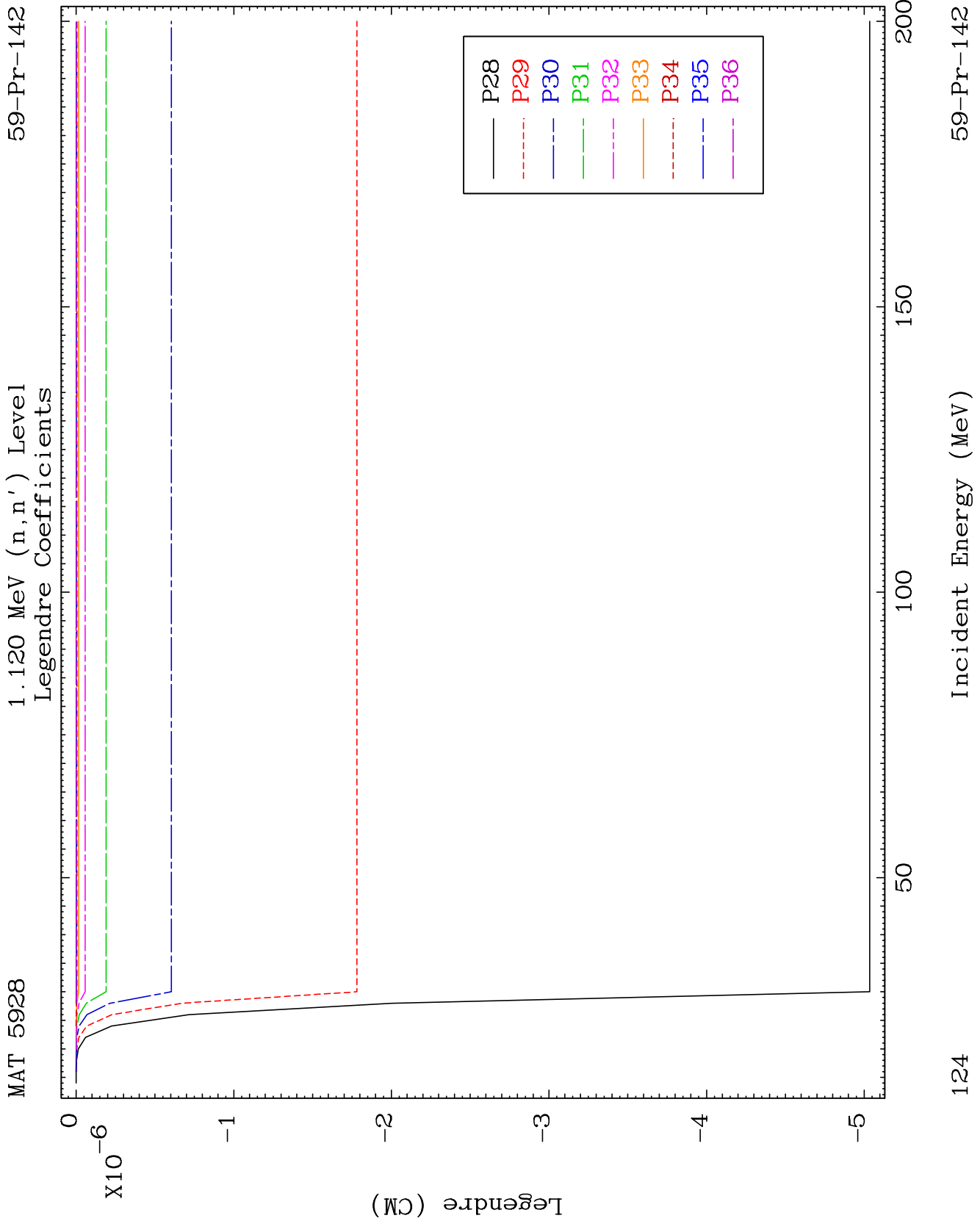
59-Pr-142

Incident Energy (MeV)

121



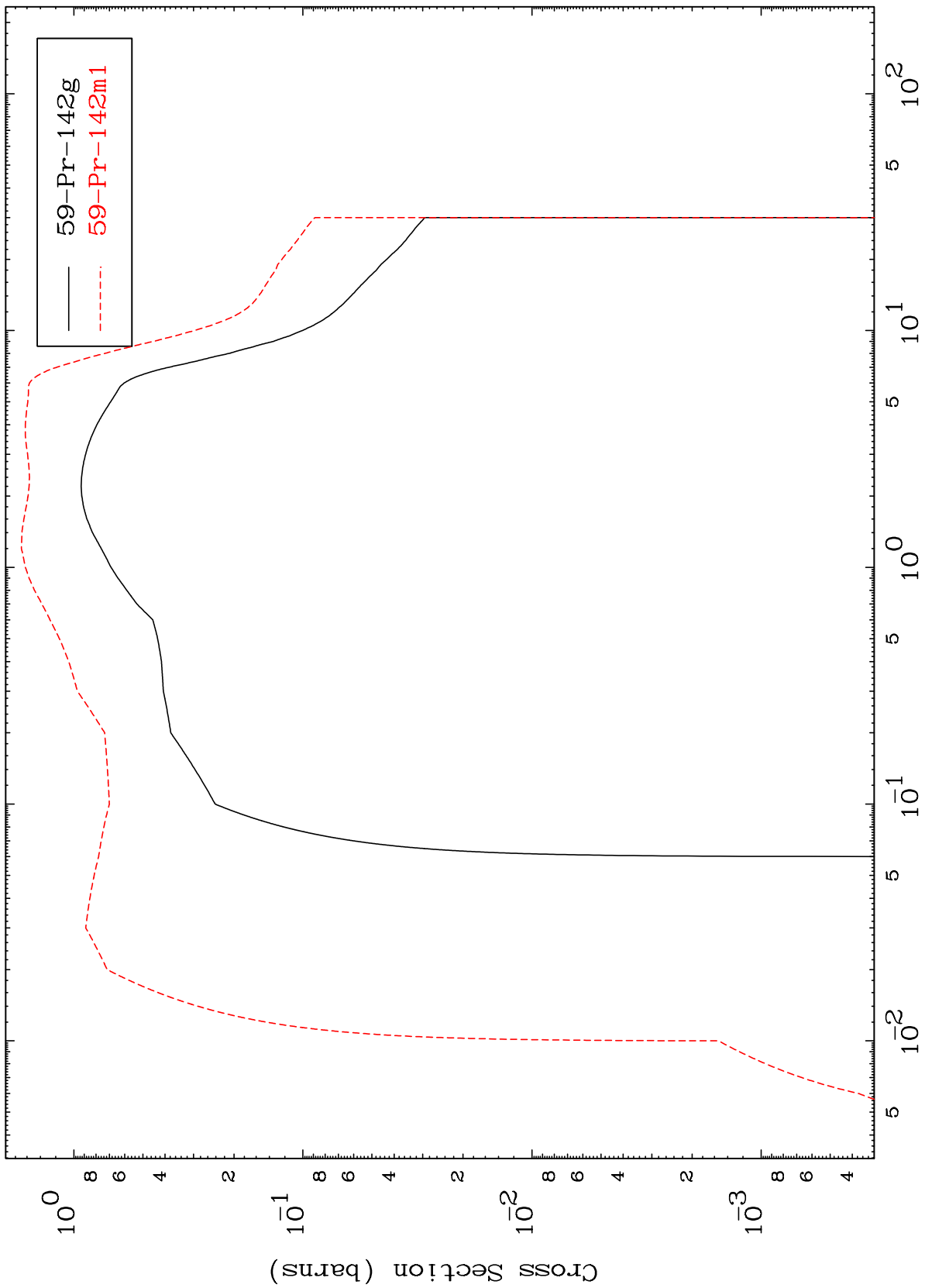




MAT 5928

59-Pr-142

### Inelastic Radionuclide Production Cross Section

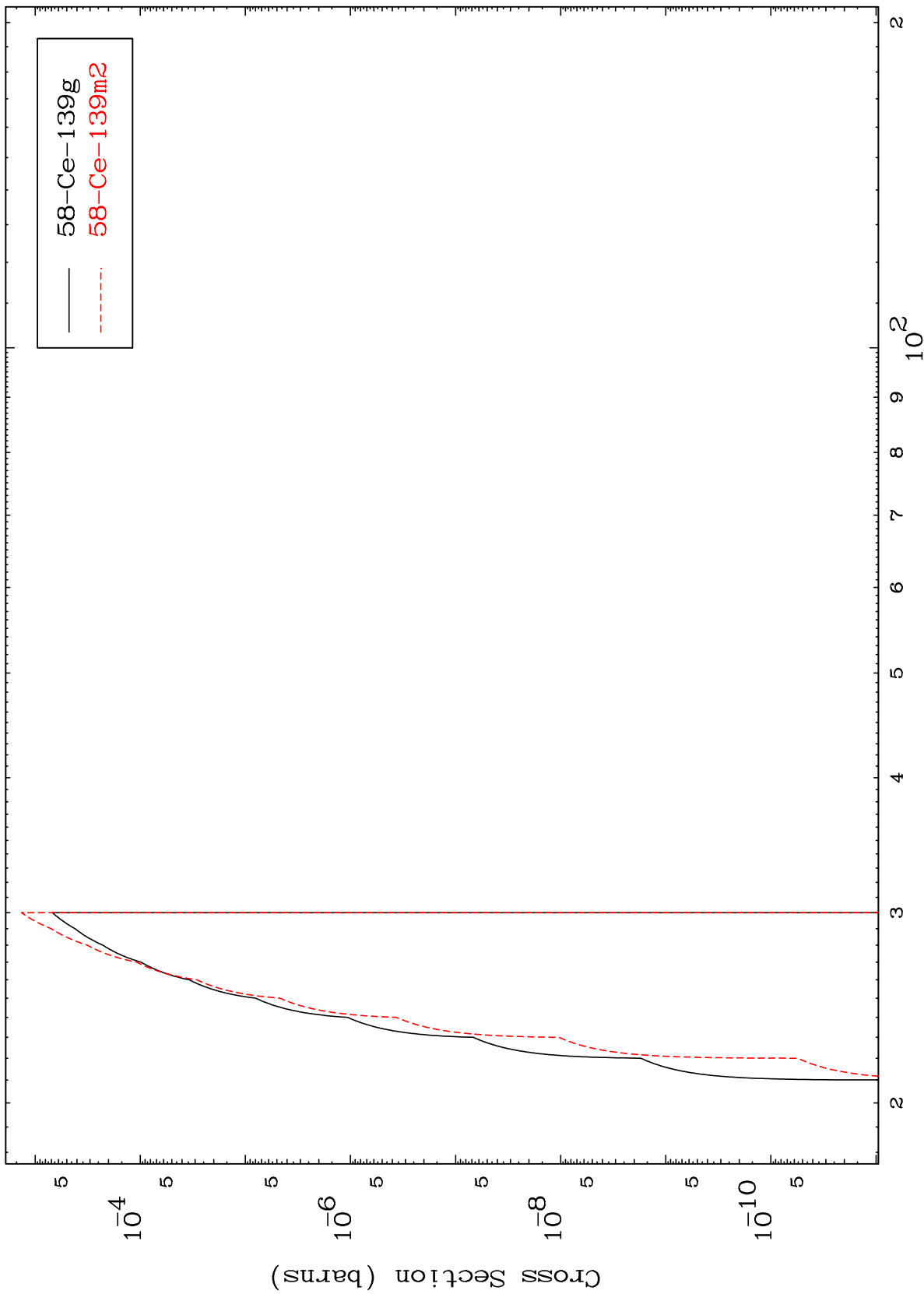


125

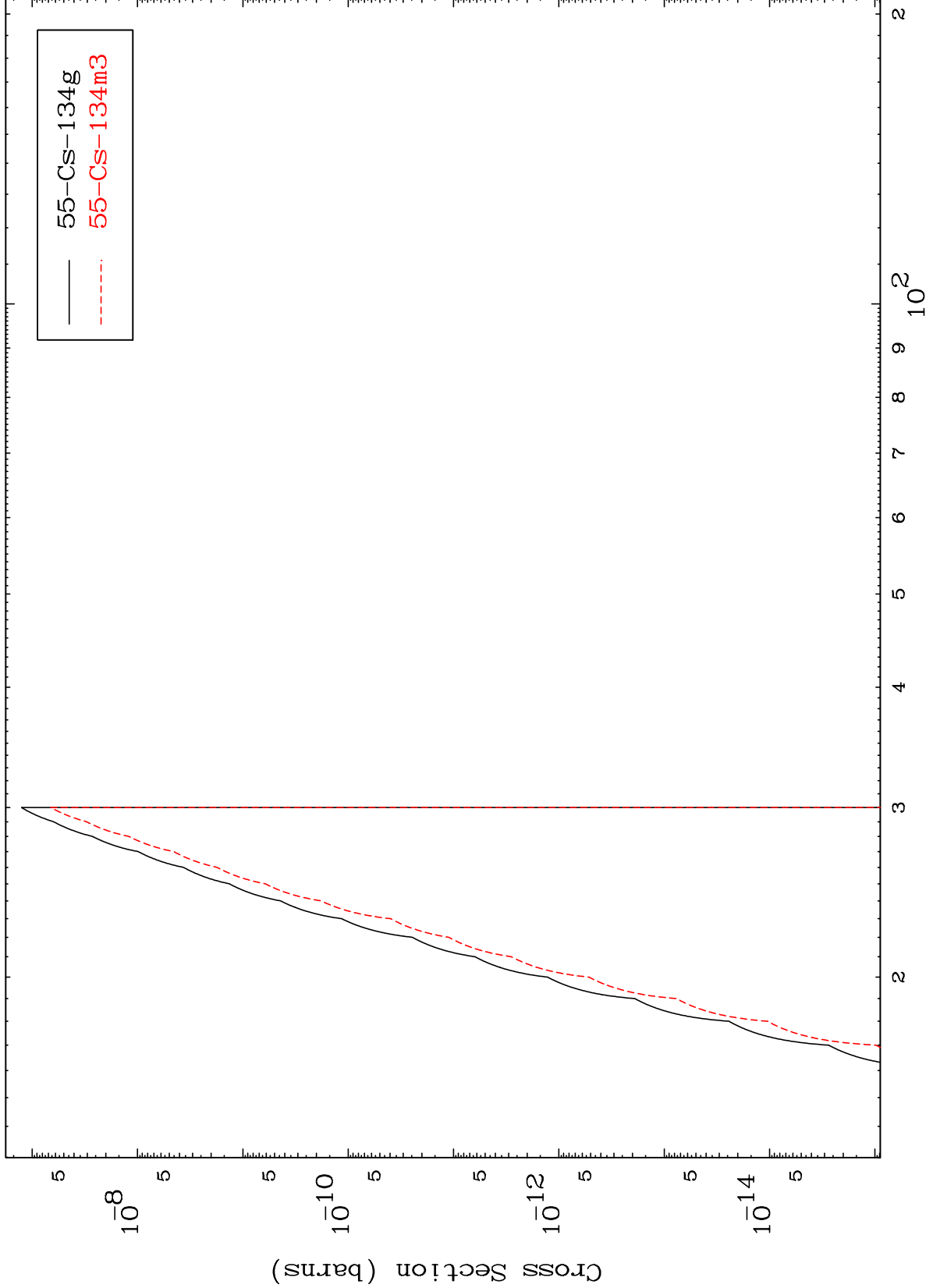
59-Pr-142

Incident Energy (MeV)

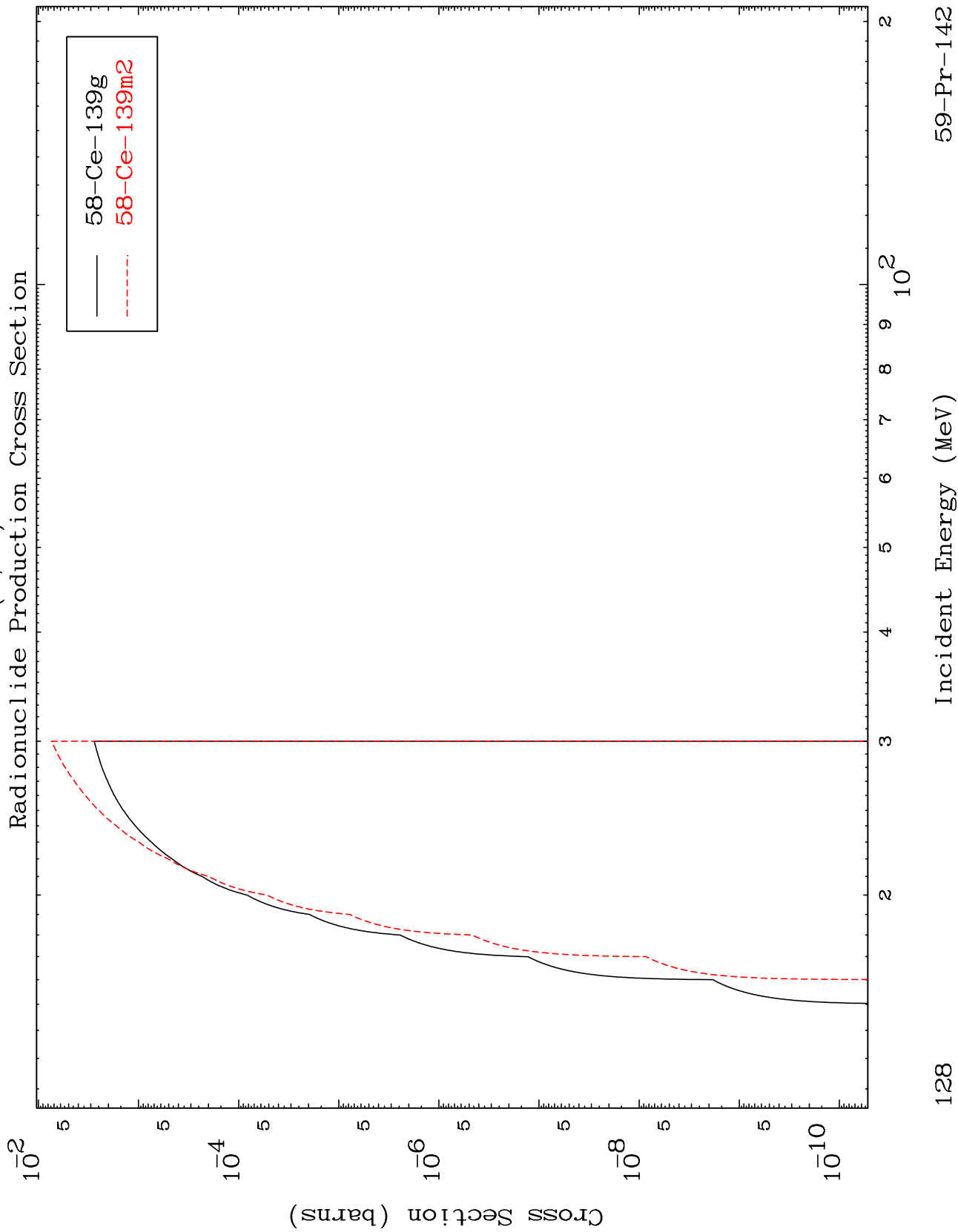
Radionuclide Production Cross Section



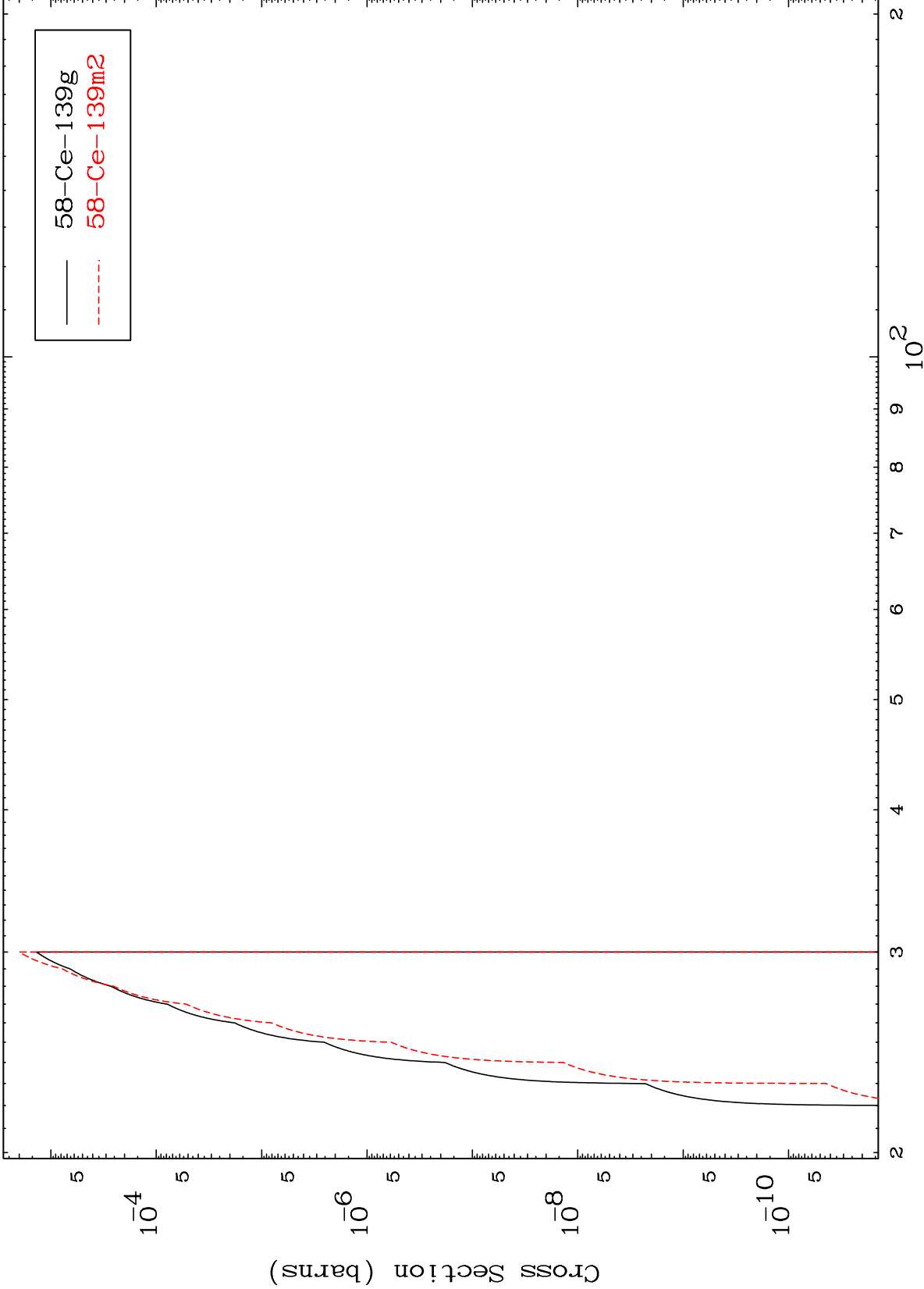
Radionuclide Production Cross Section



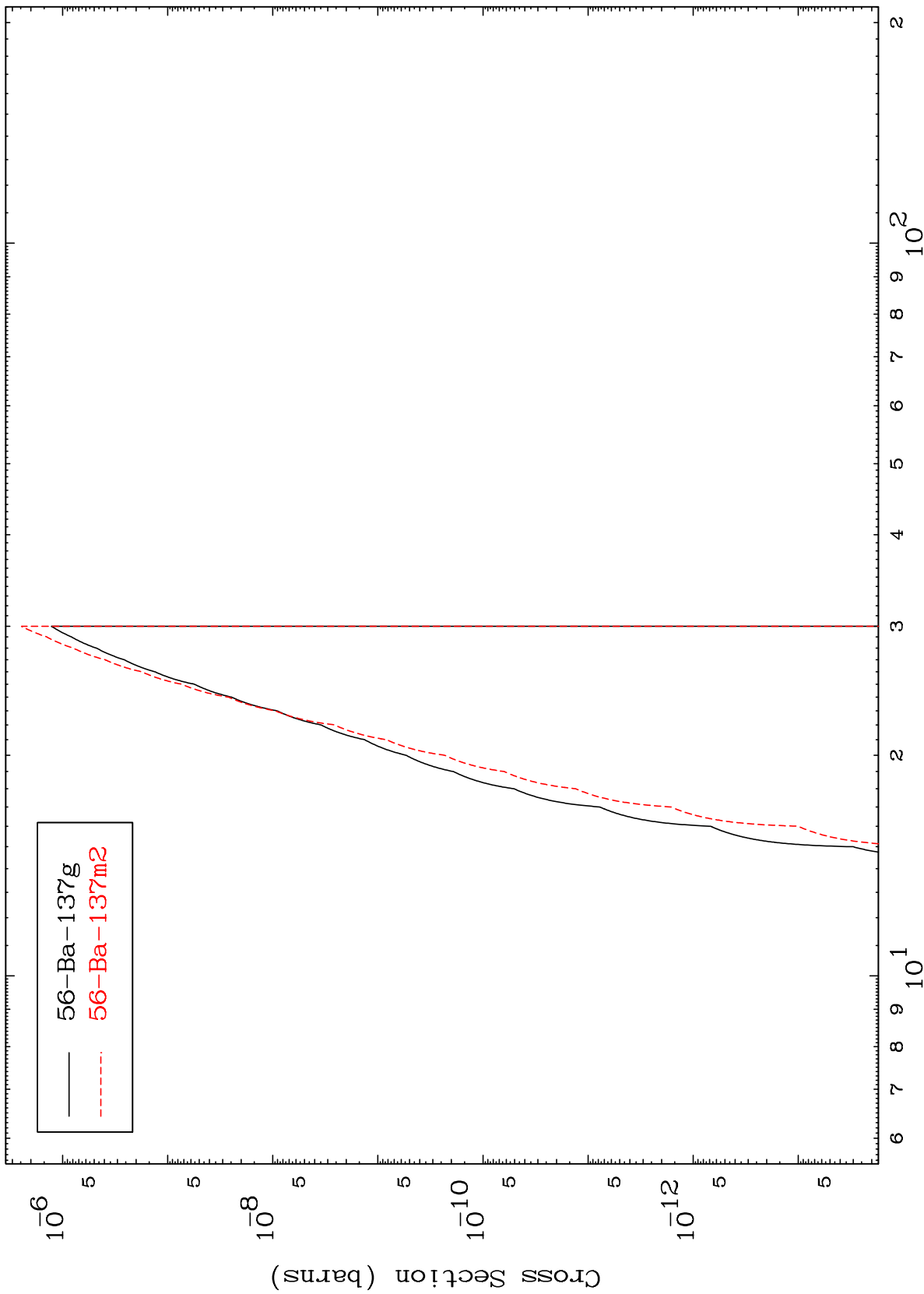




Radionuclide Production Cross Section



Radionuclide Production Cross Section

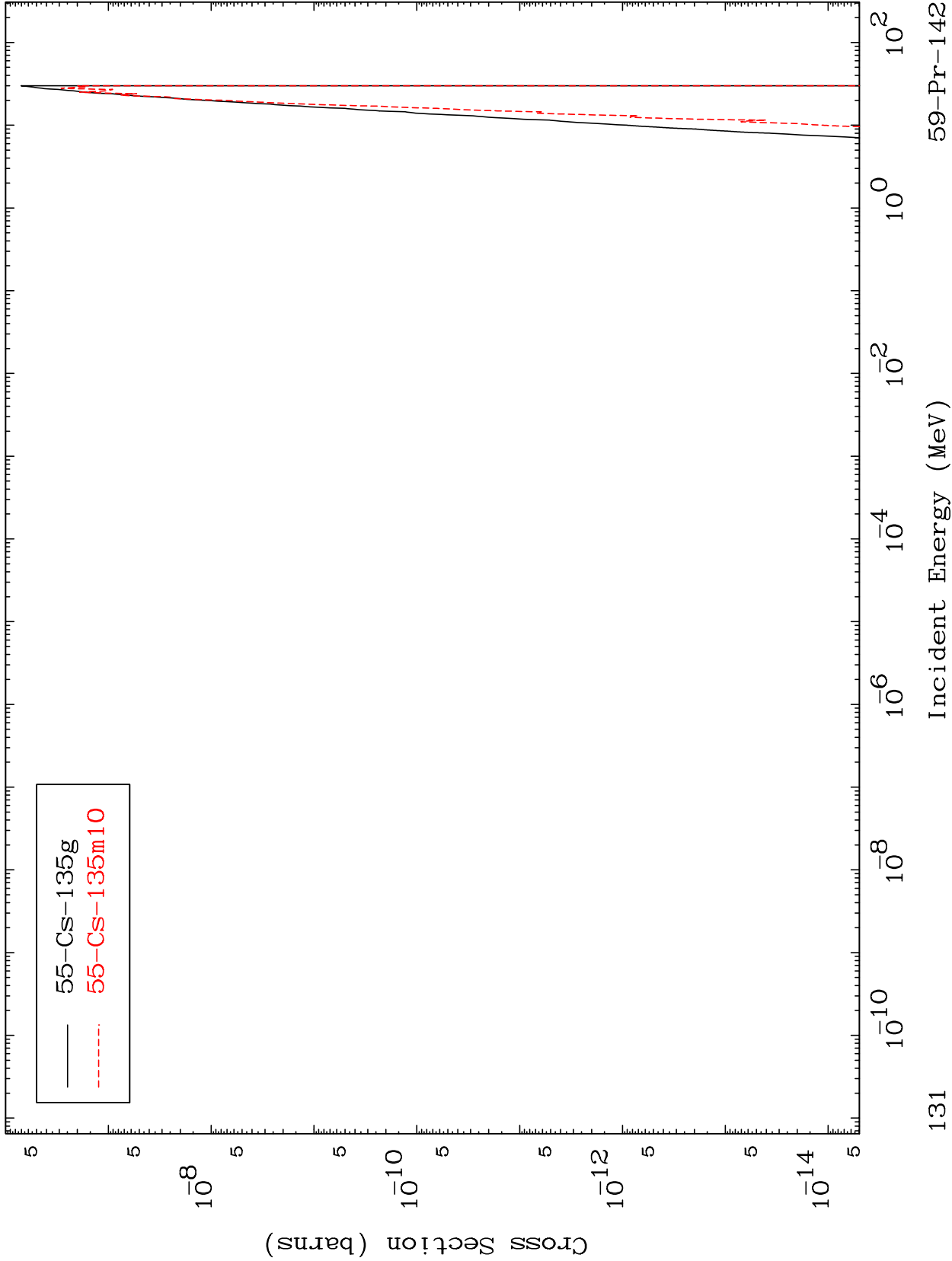


MAT 5928

(n,2α)

59-Pr-142

Radionuclide Production Cross Section

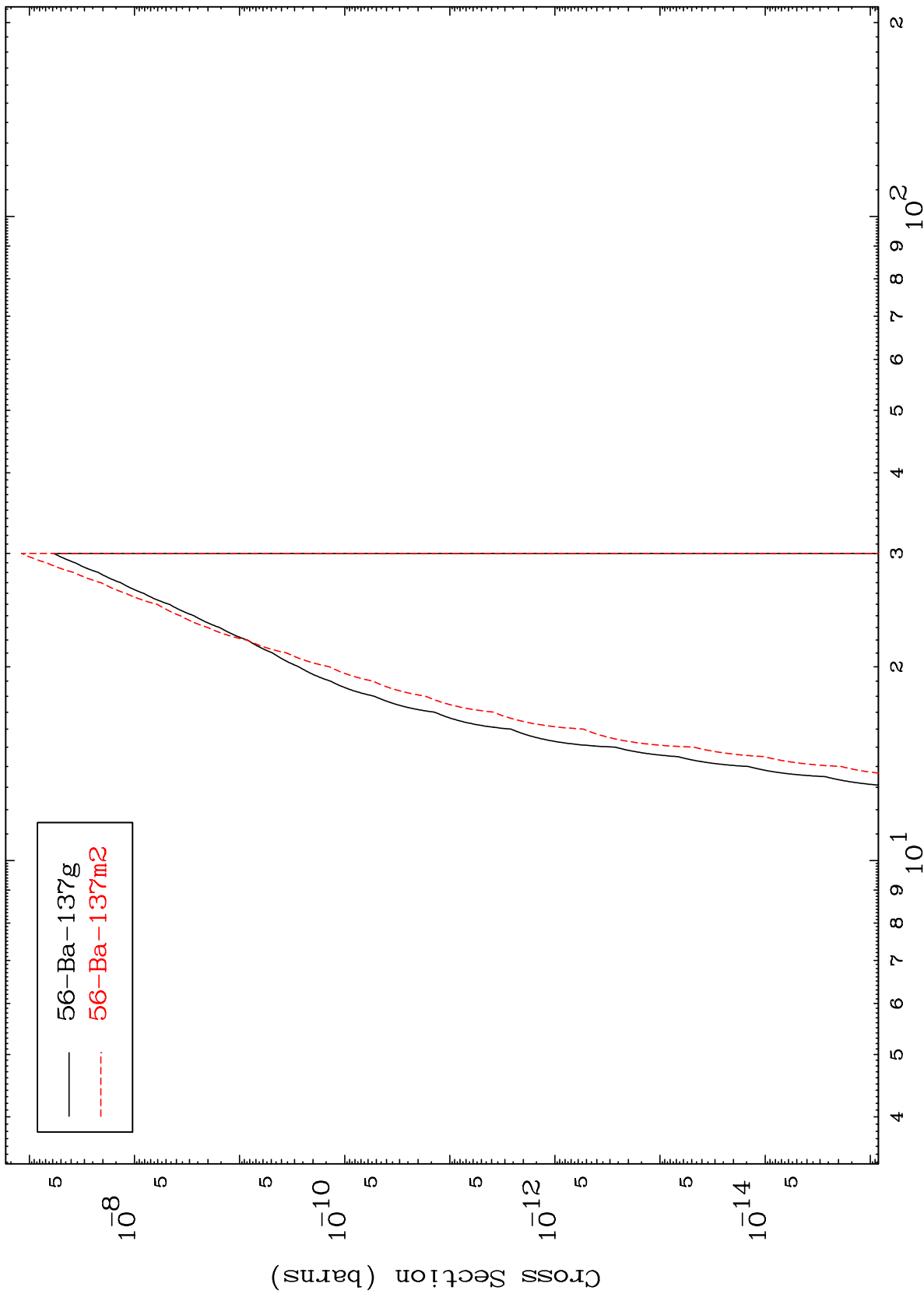


MAT 5928

(n,d)  $\alpha$

59-Pr-142

Radionuclide Production Cross Section



132

Incident Energy (MeV)

59-Pr-142