

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

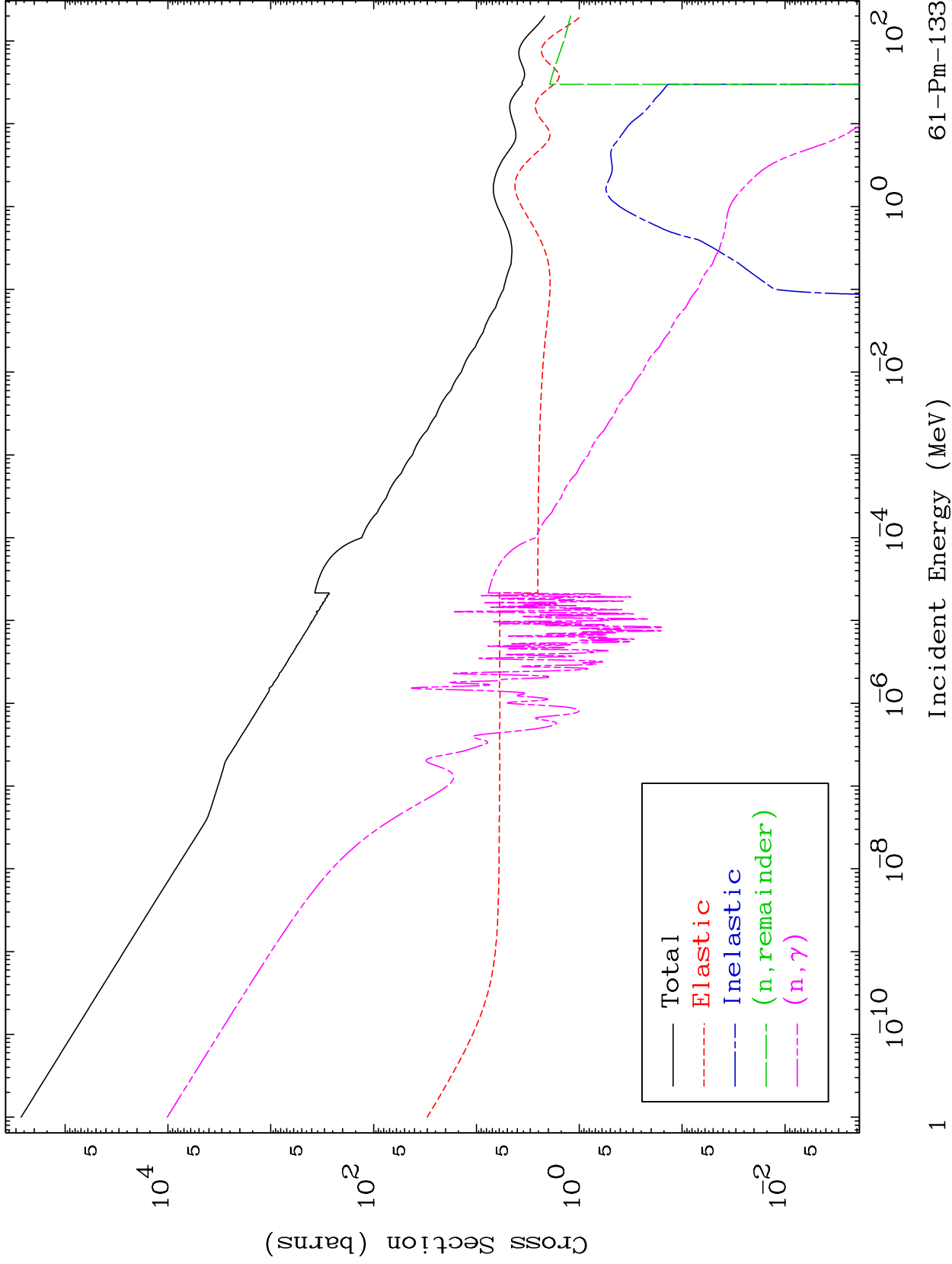
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6107

Major
293 Kelvin Cross Sections

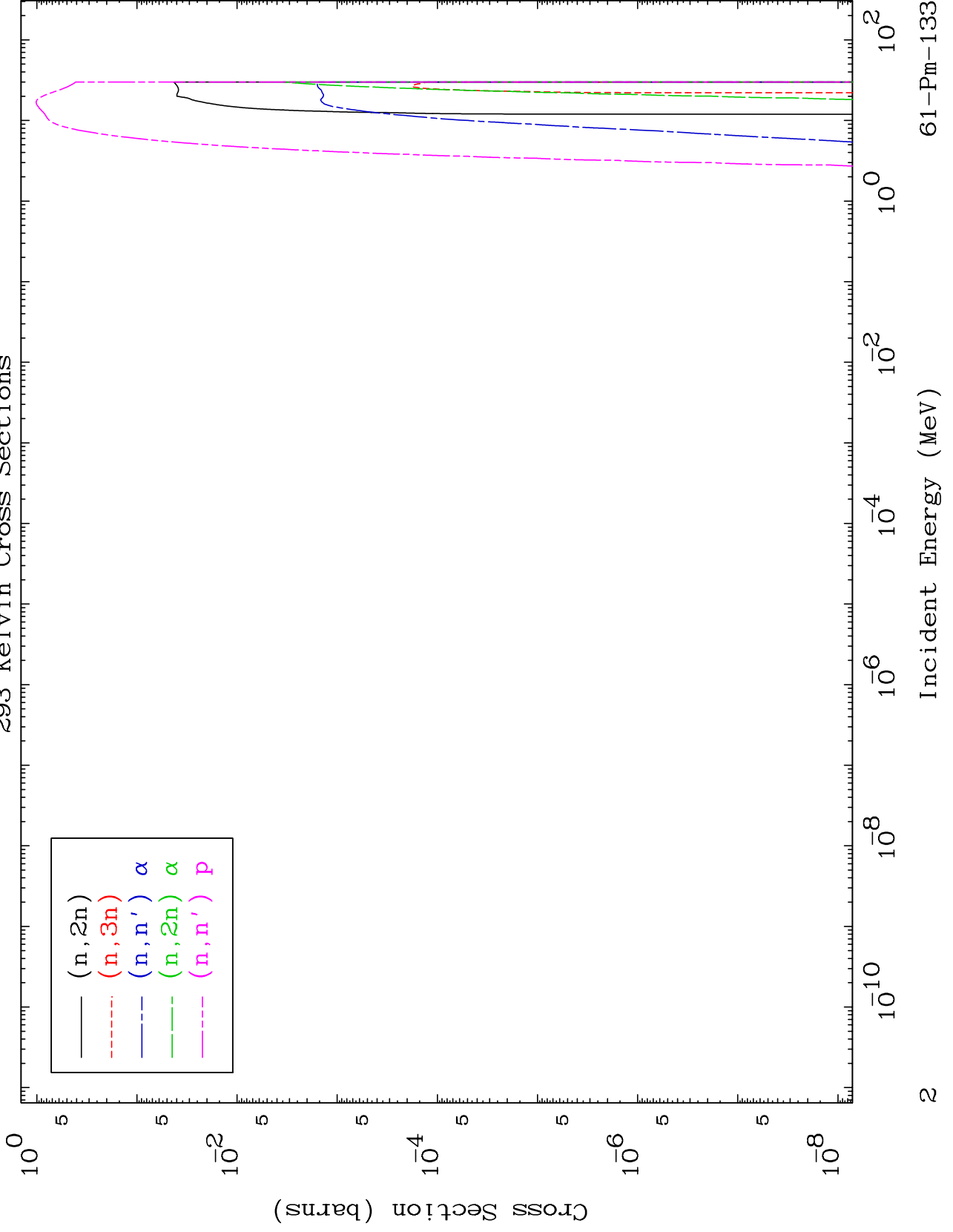
61-Pm-133



MAT 6107

Neutron Production
293 Kelvin Cross Sections

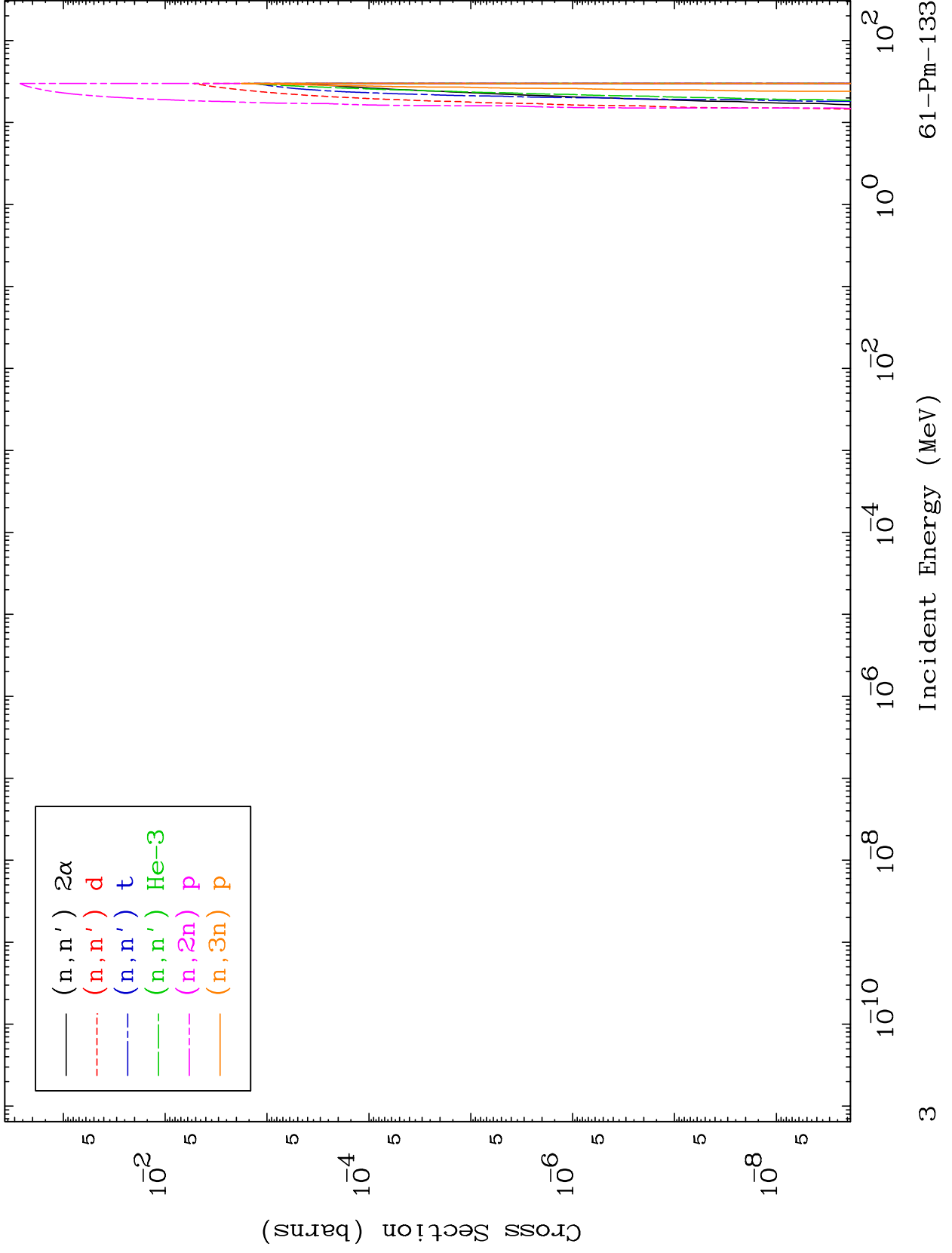
61-Pm-133



MAT 6107

Neutron Production
293 Kelvin Cross Sections

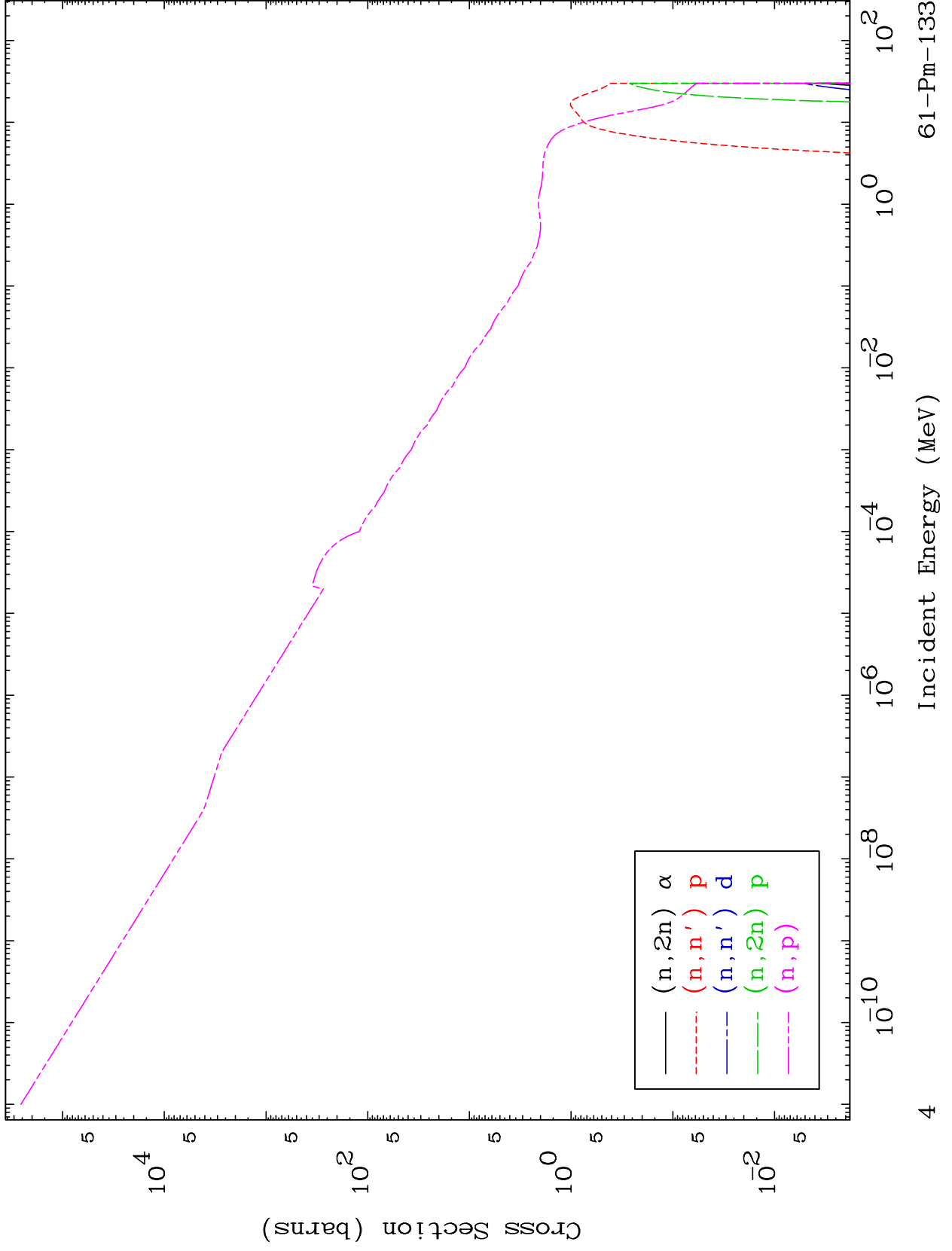
61-Pm-133



MAT 6107

Charged Particle
293 Kelvin Cross Sections

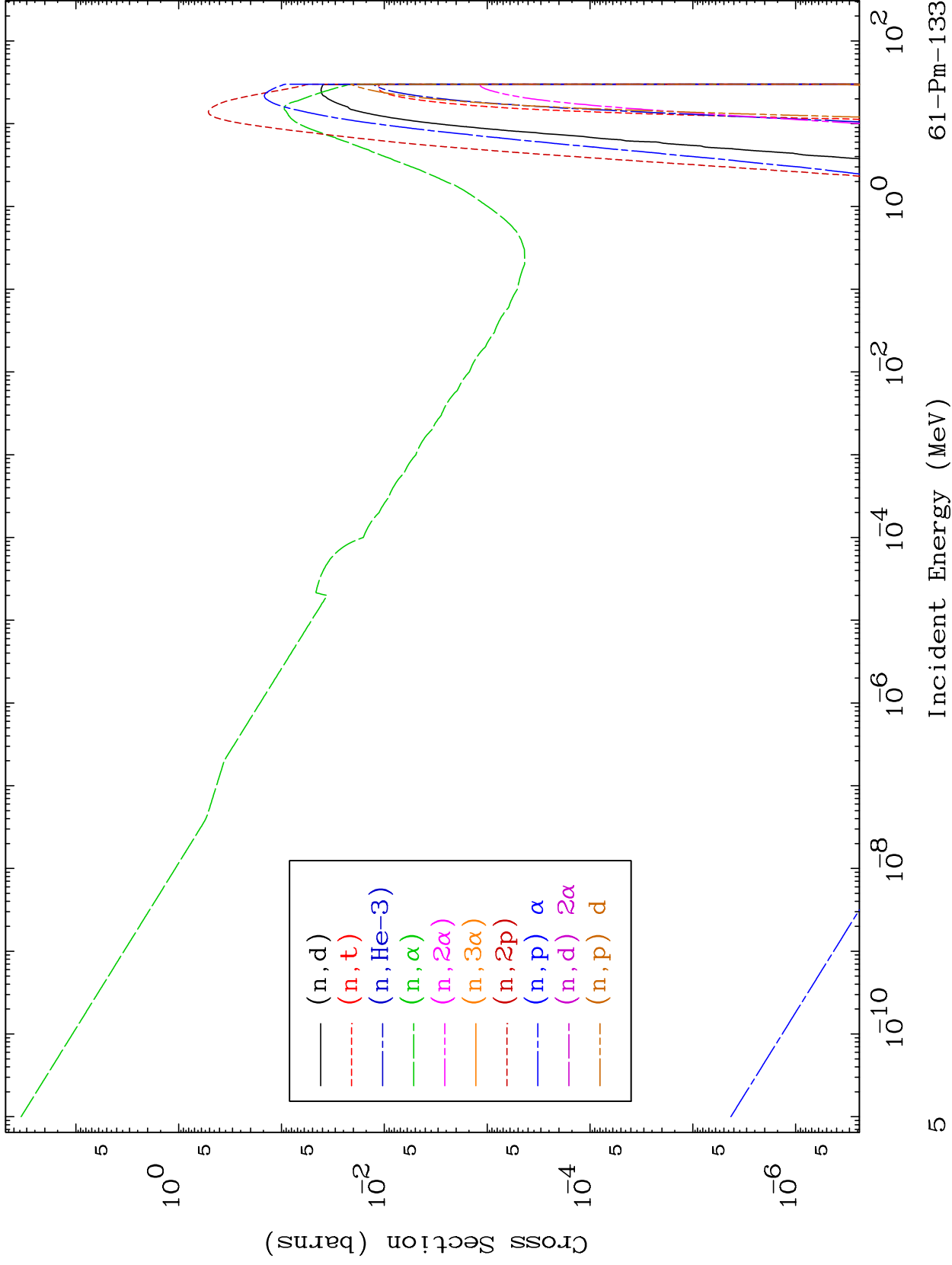
61-Pm-133

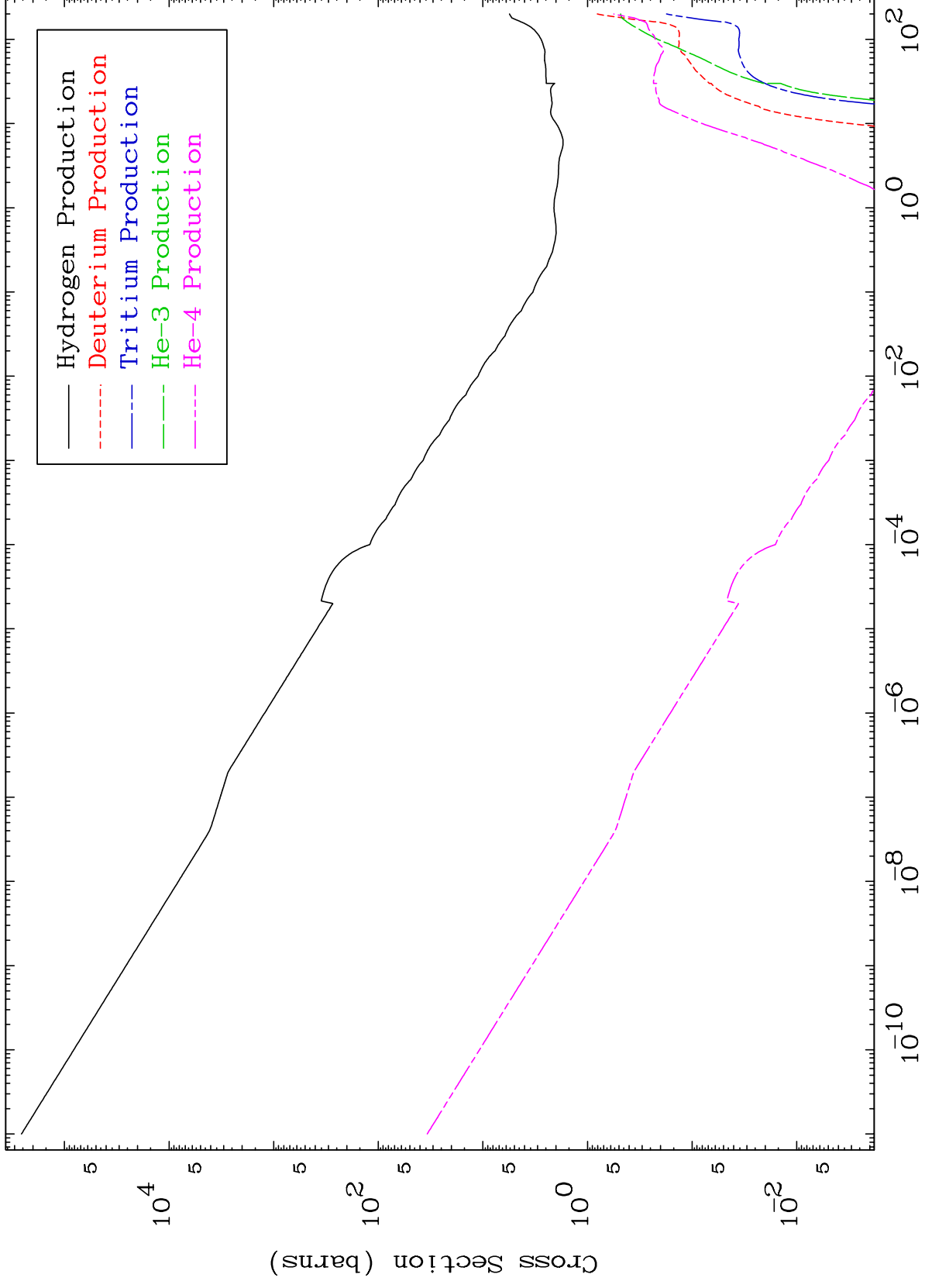


MAT 6107

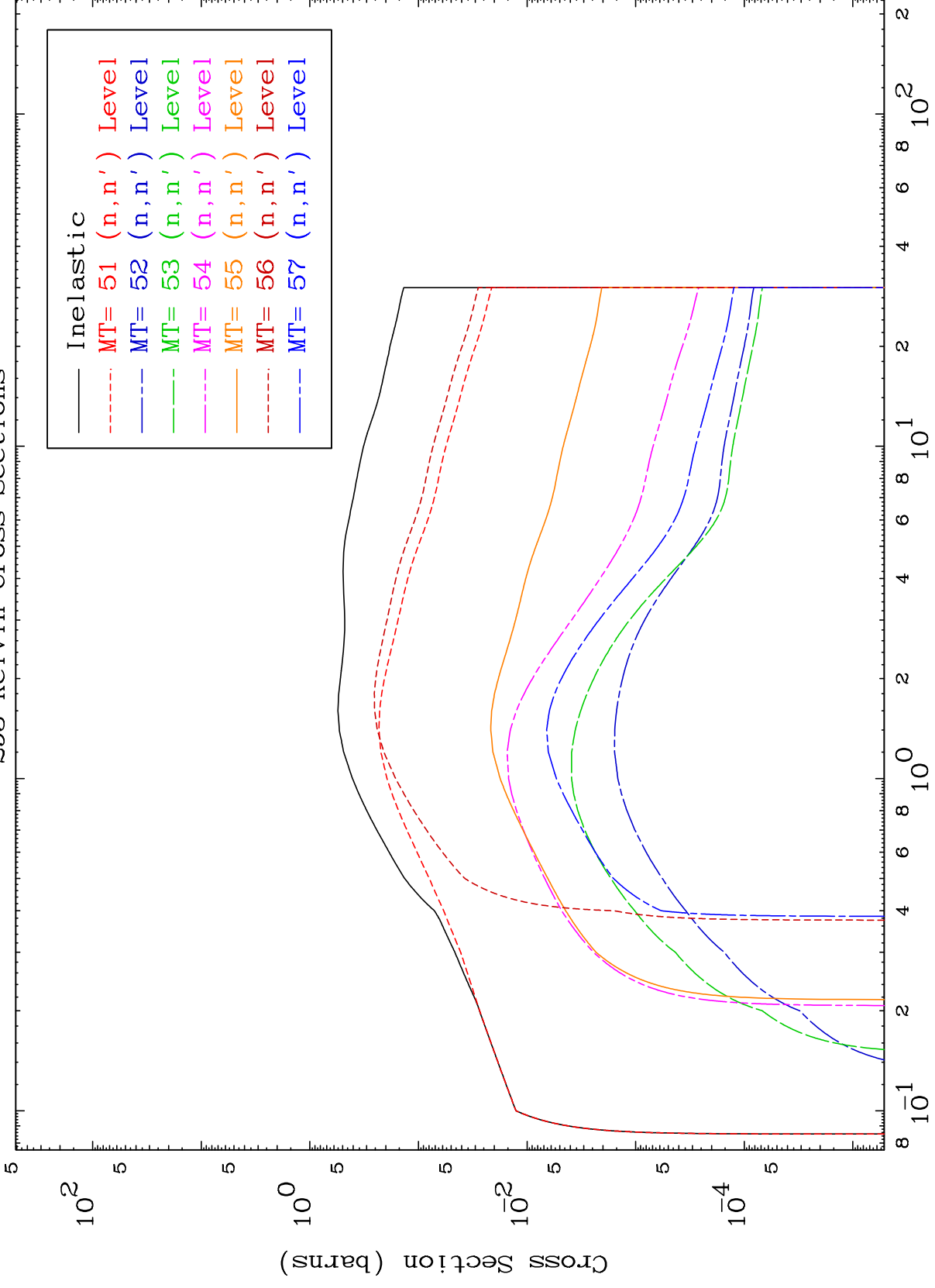
Charged Particle
293 Kelvin Cross Sections

61-Pm-133





293 Kelvin Cross Sections

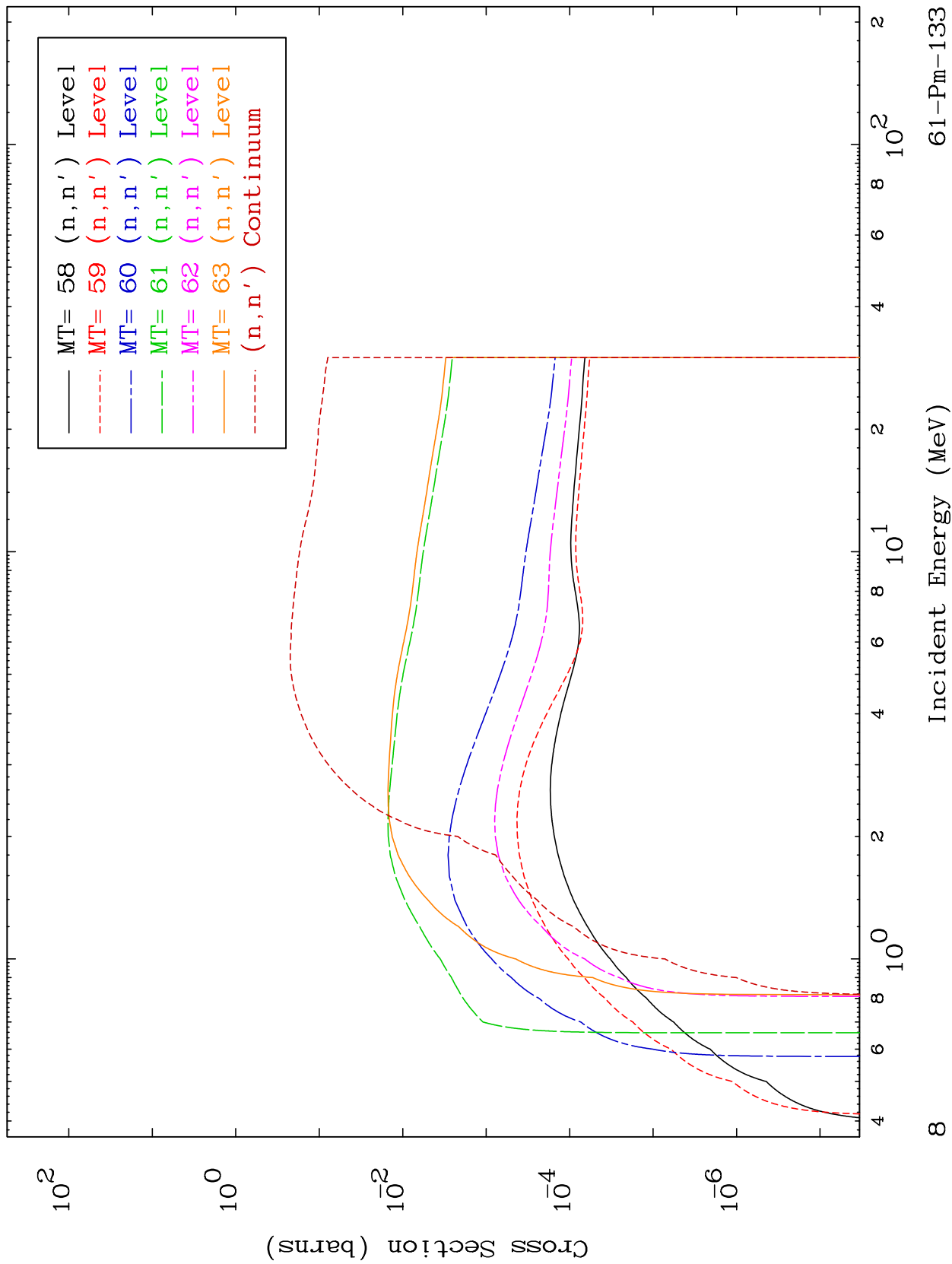


MAT 6107

(n,n') Level

293 Kelvin Cross Sections

61-Pm-133



8

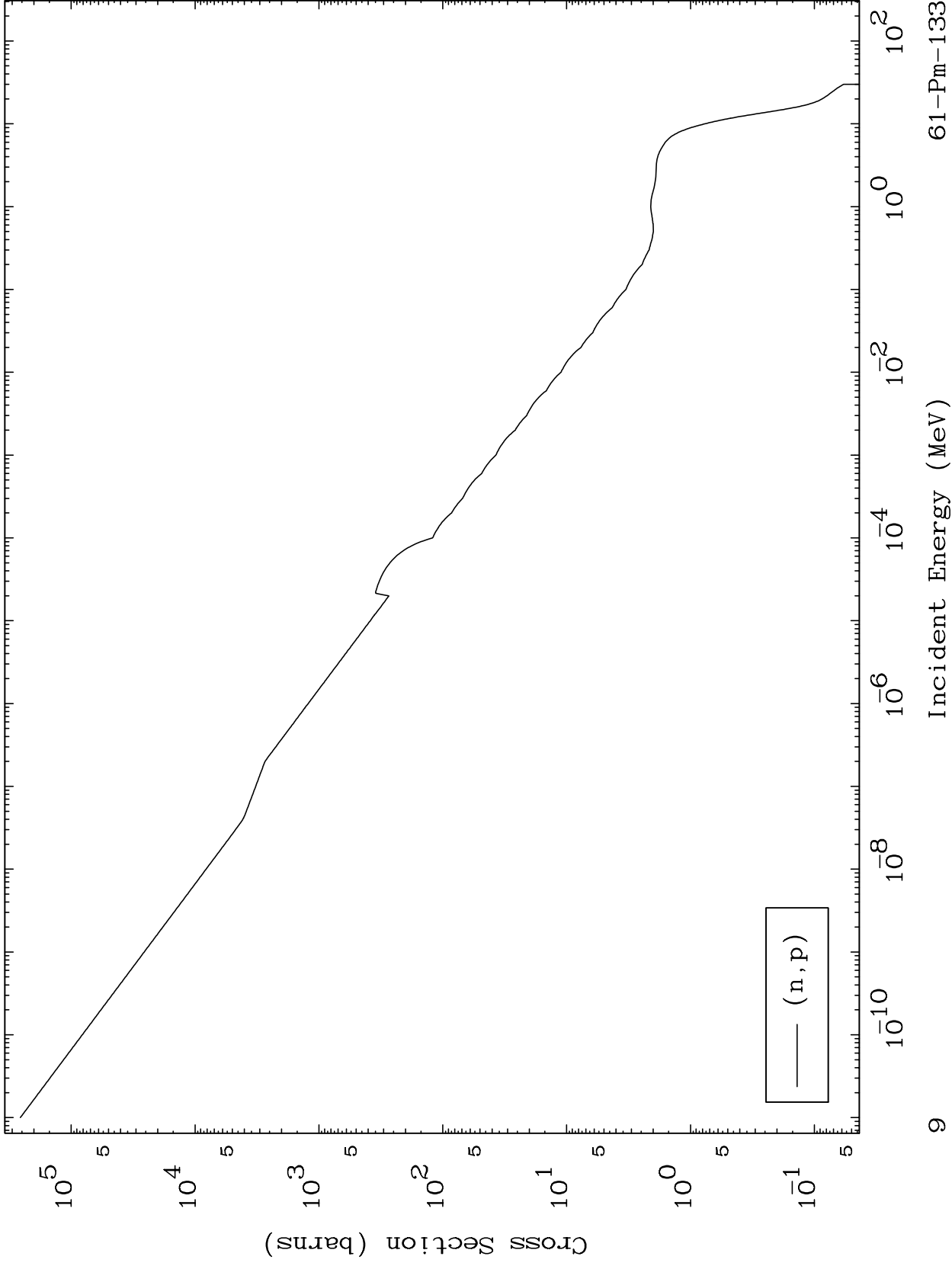
Incident Energy (MeV)

61-Pm-133

MAT 6107

(n,p) Levels
293 Kelvin Cross Sections

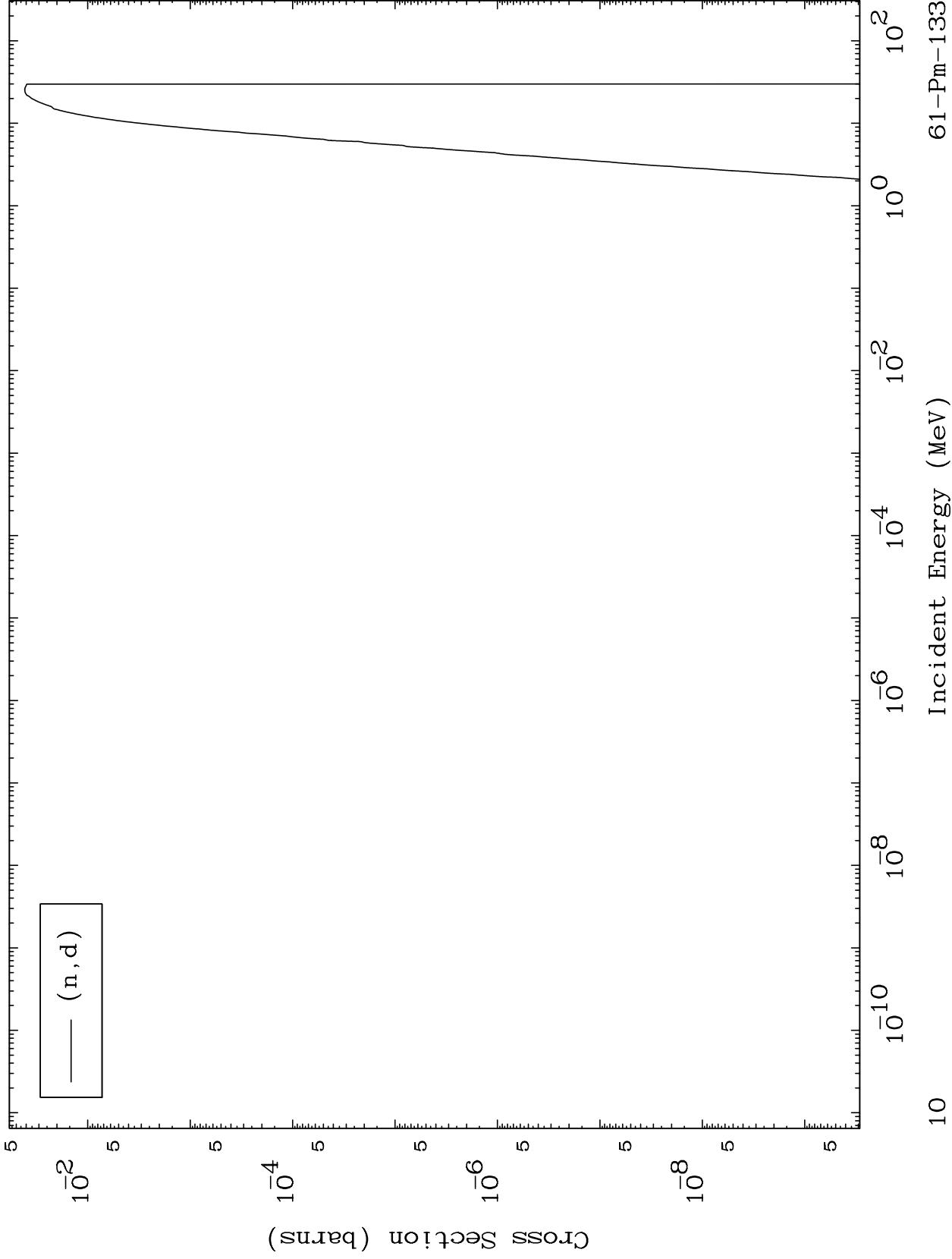
61-Pm-133



MAT 6107

(n,d) Levels
293 Kelvin Cross Sections

61-Pm-133



10

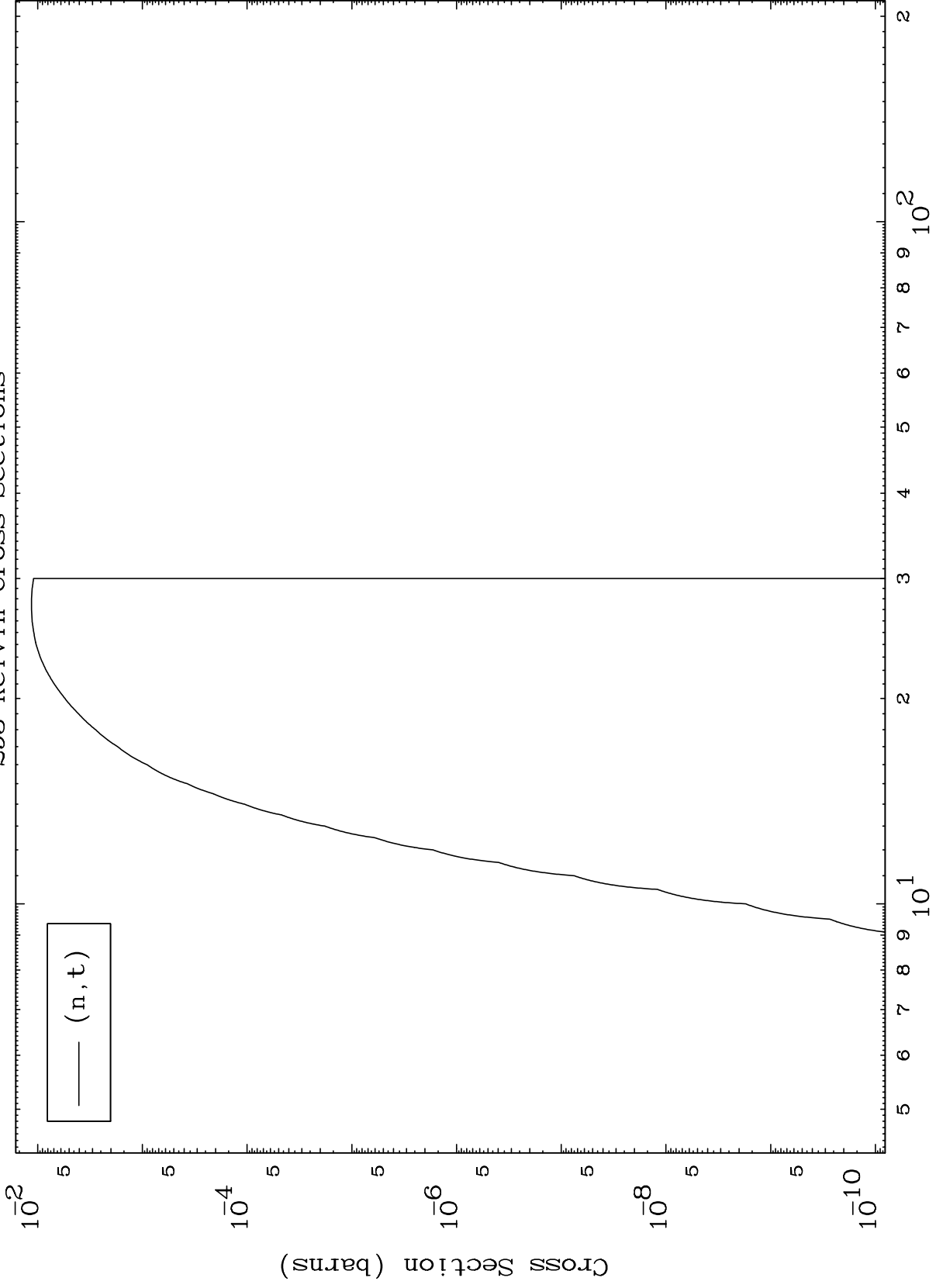
Incident Energy (MeV)

61-Pm-133

MAT 6107

(n,t) Levels
293 Kelvin Cross Sections

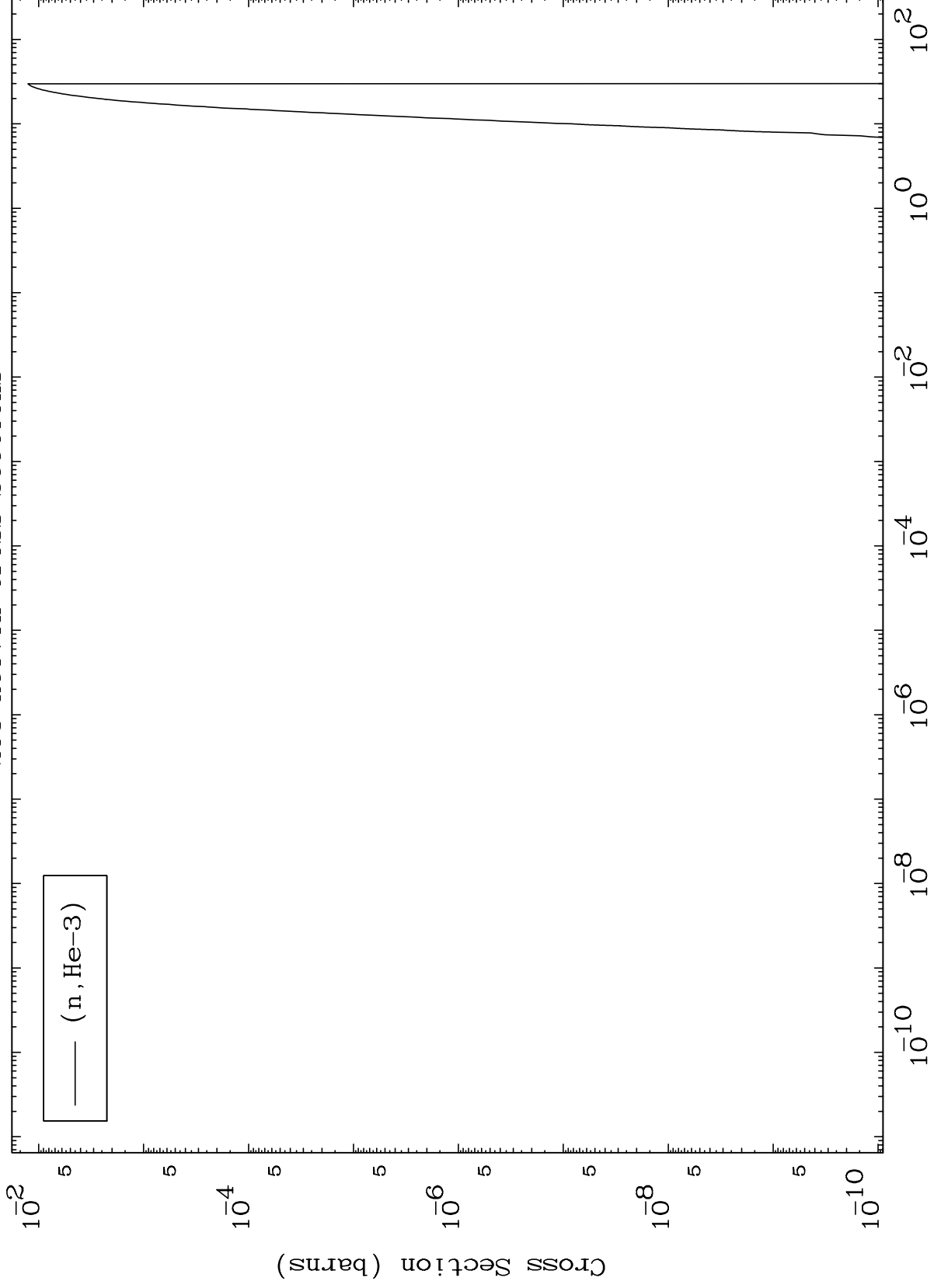
61-Pm-133



MAT 6107

(n,He3) Levels
293 Kelvin Cross Sections

61-Pm-133



12

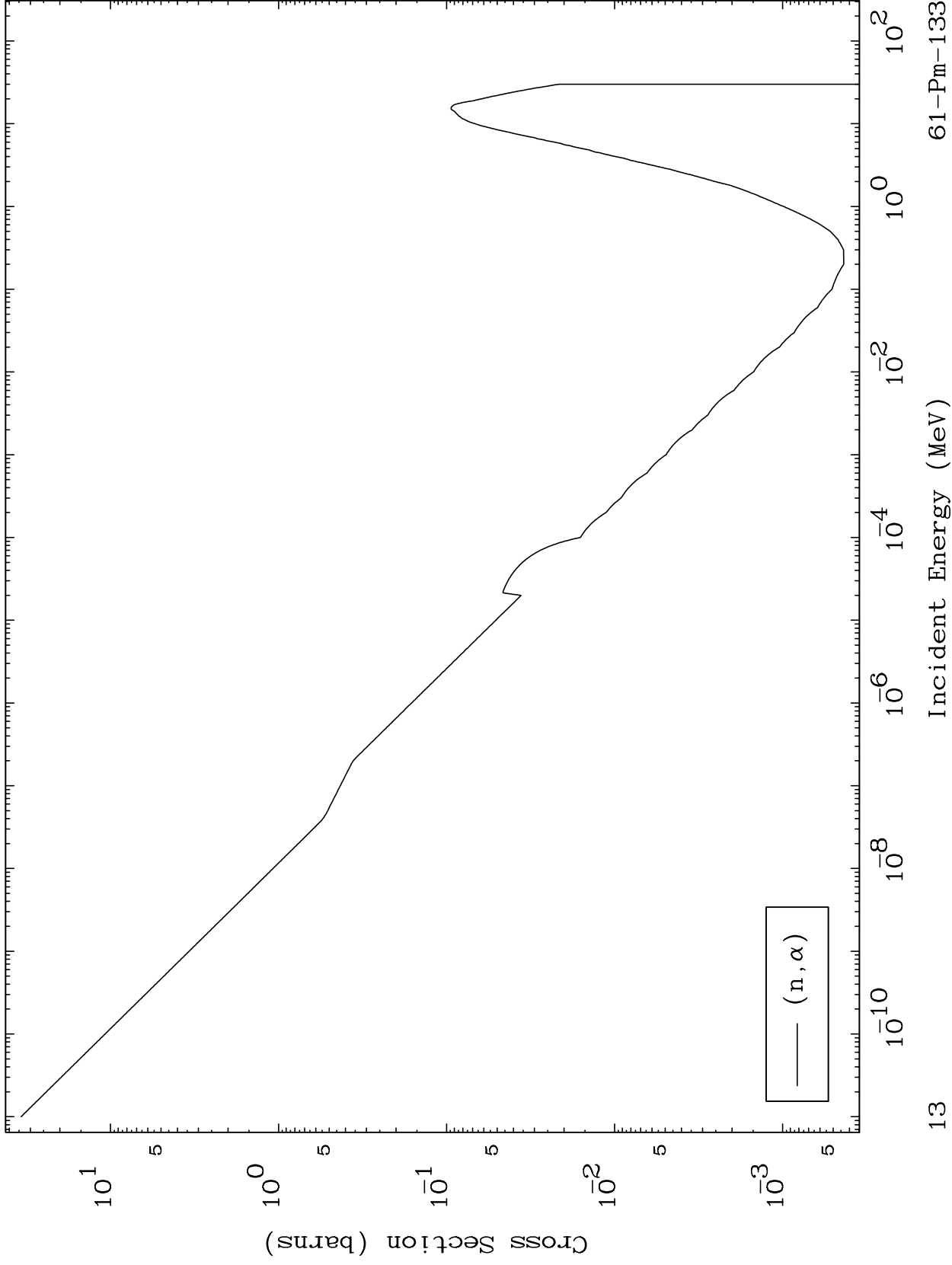
Incident Energy (MeV)

61-Pm-133

MAT 6107

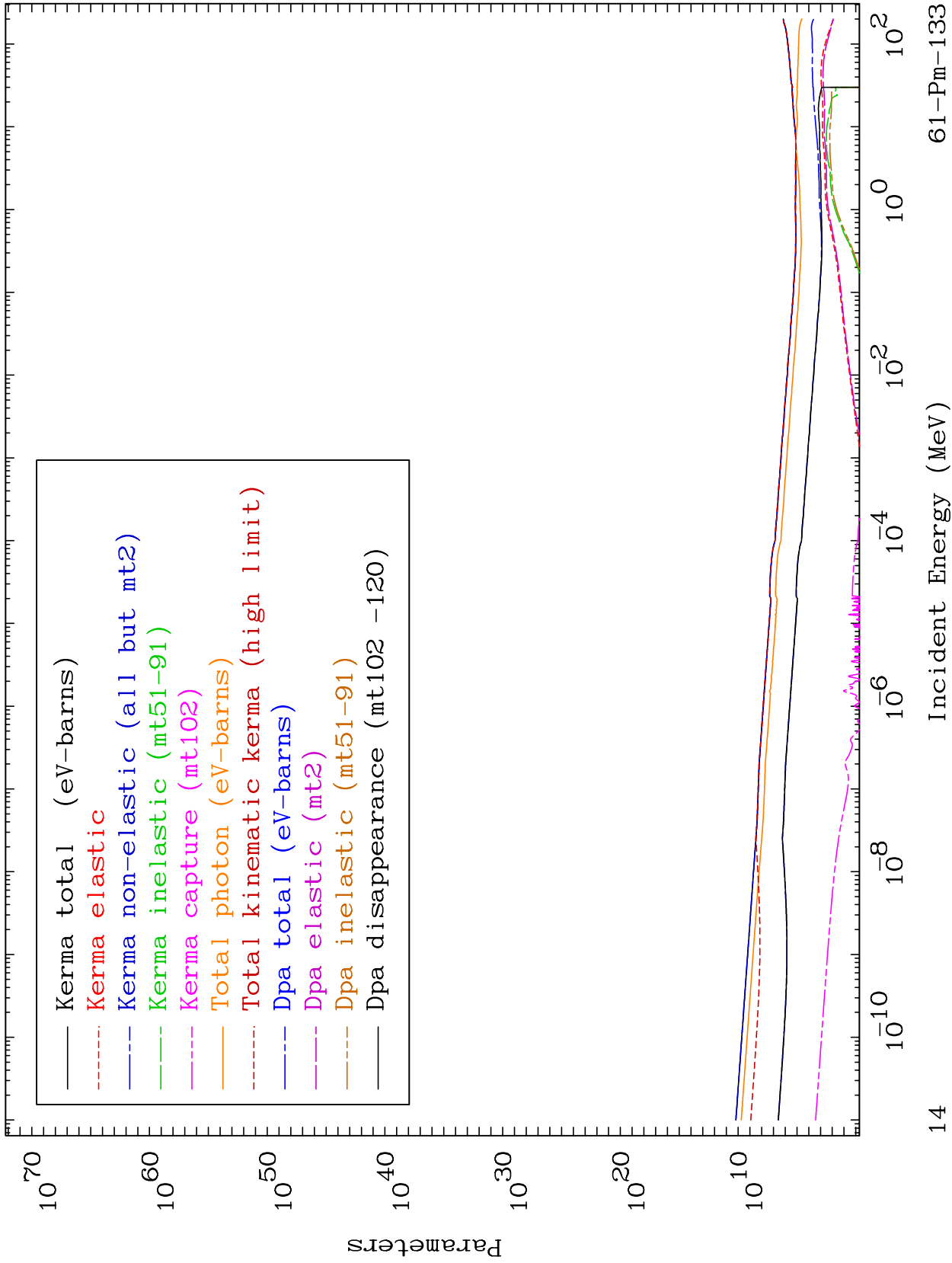
(n,α) Levels
293 Kelvin Cross Sections

61-Pm-133



13

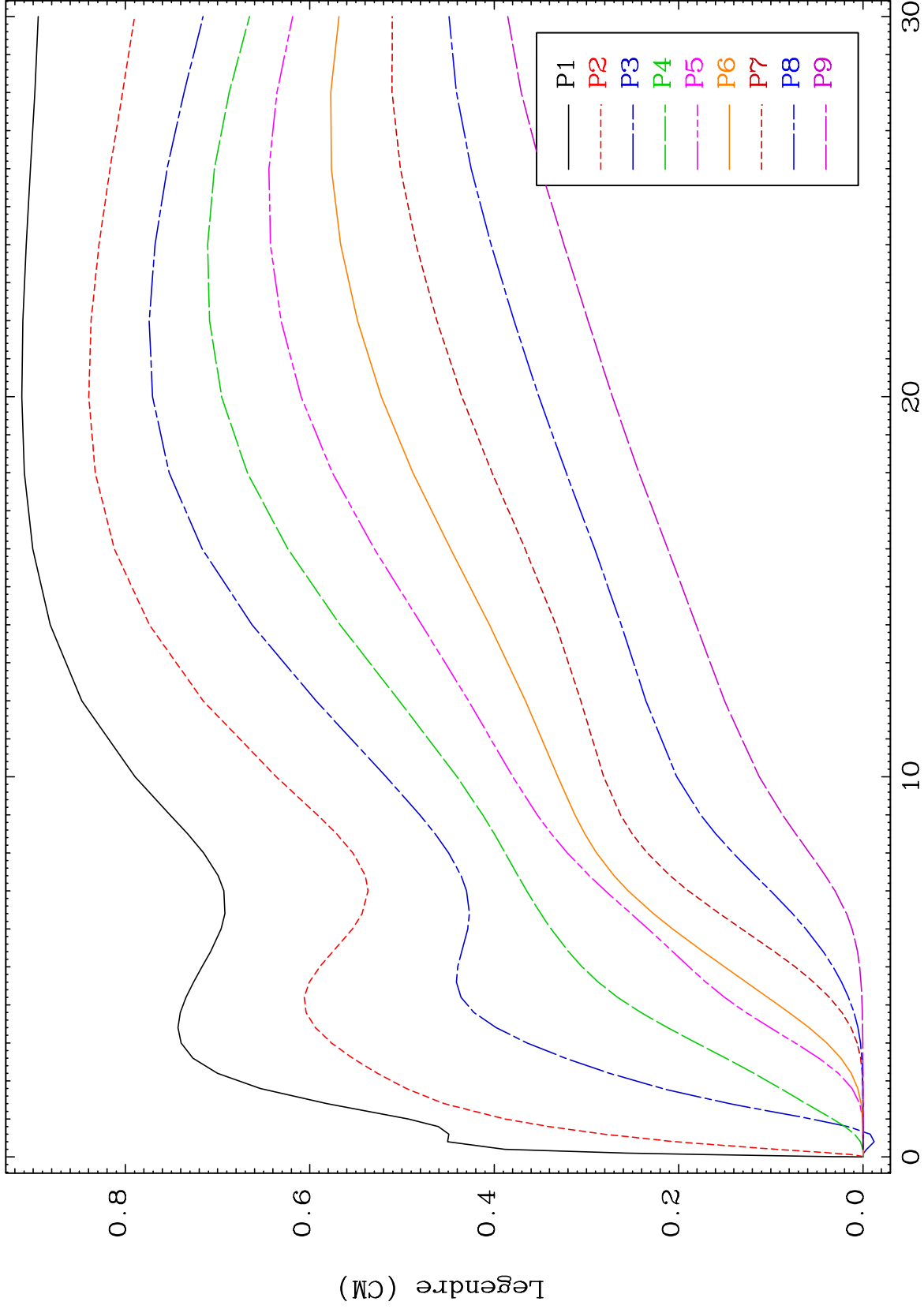
61-Pm-133



MAT 6107

Elastic Legendre Coefficients

61-Pm-133



15

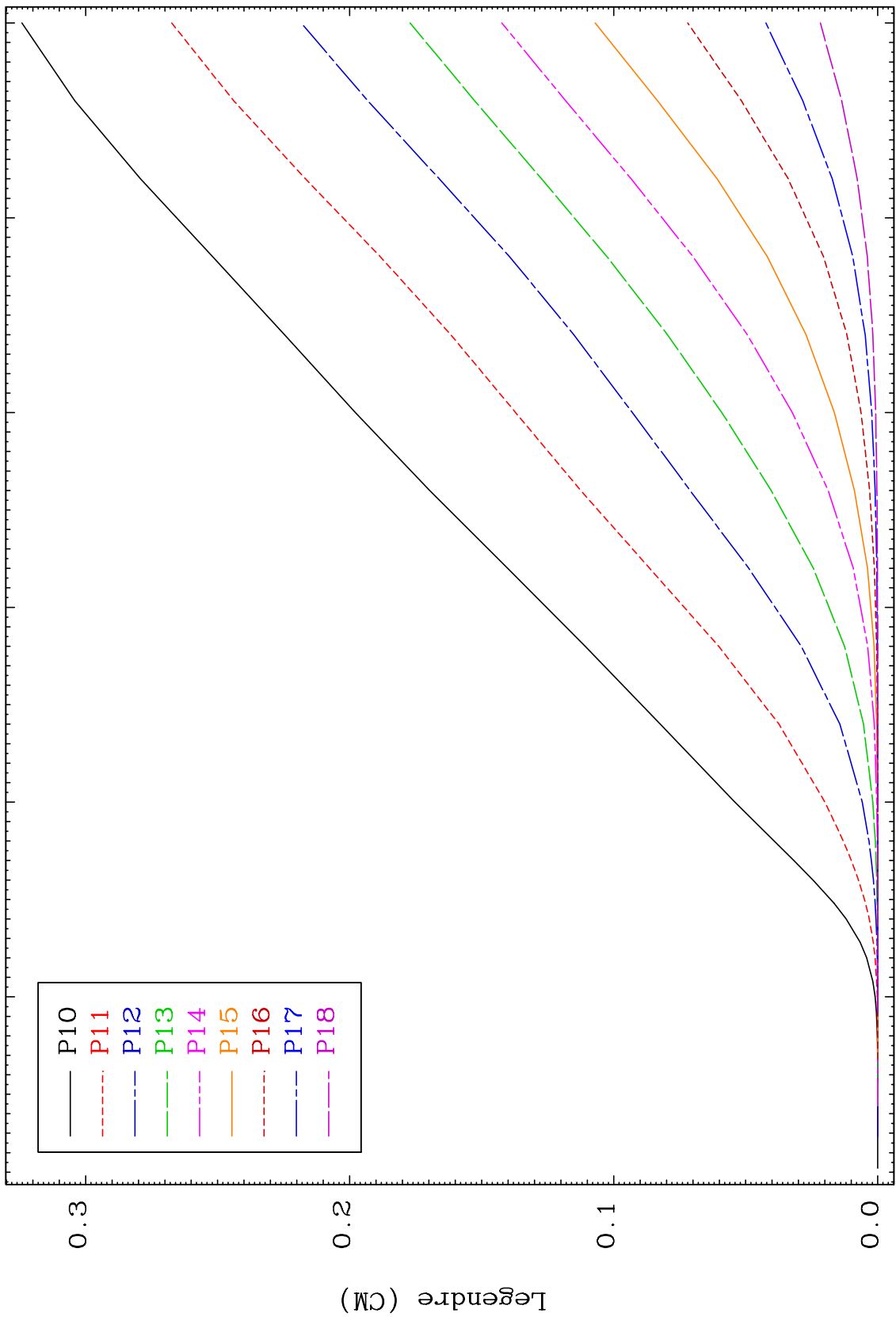
Incident Energy (MeV)

61-Pm-133

MAT 6107

Elastic Legendre Coefficients

61-Pm-133



16

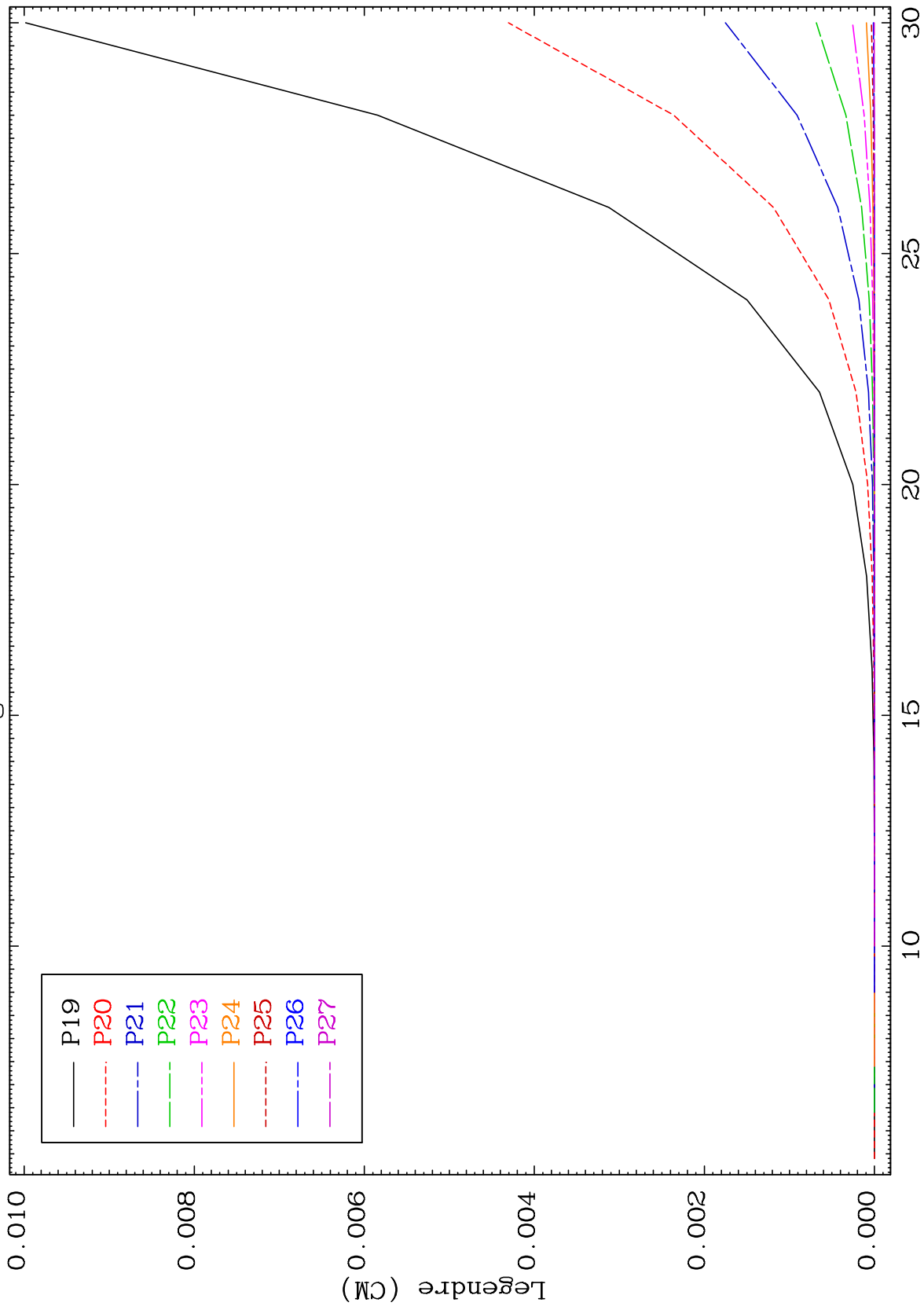
Incident Energy (MeV)

61-Pm-133

MAT 6107

Elastic Legendre Coefficients

61-Pm-133



17

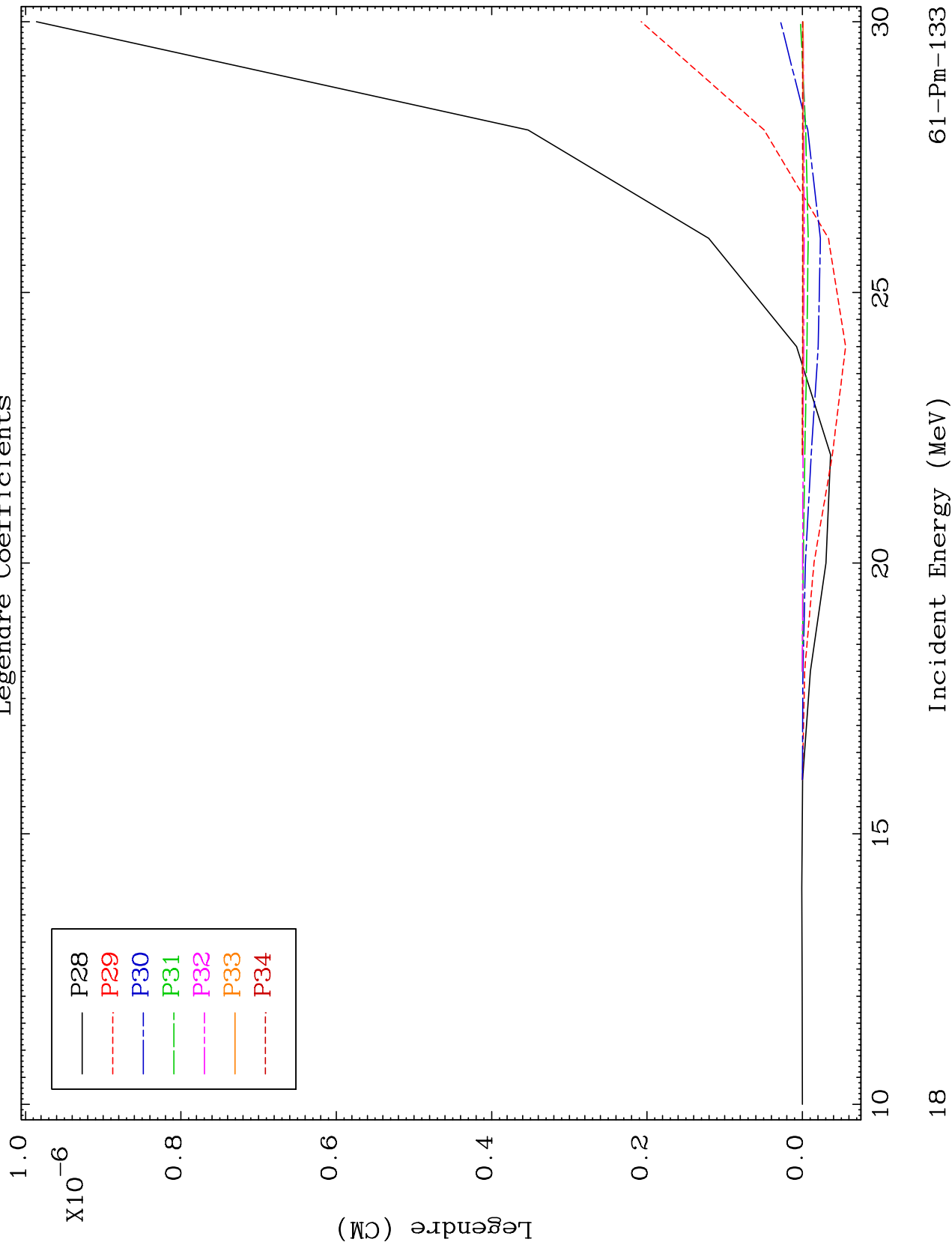
Incident Energy (MeV)

61-Pm-133

MAT 6107

Elastic
Legendre Coefficients

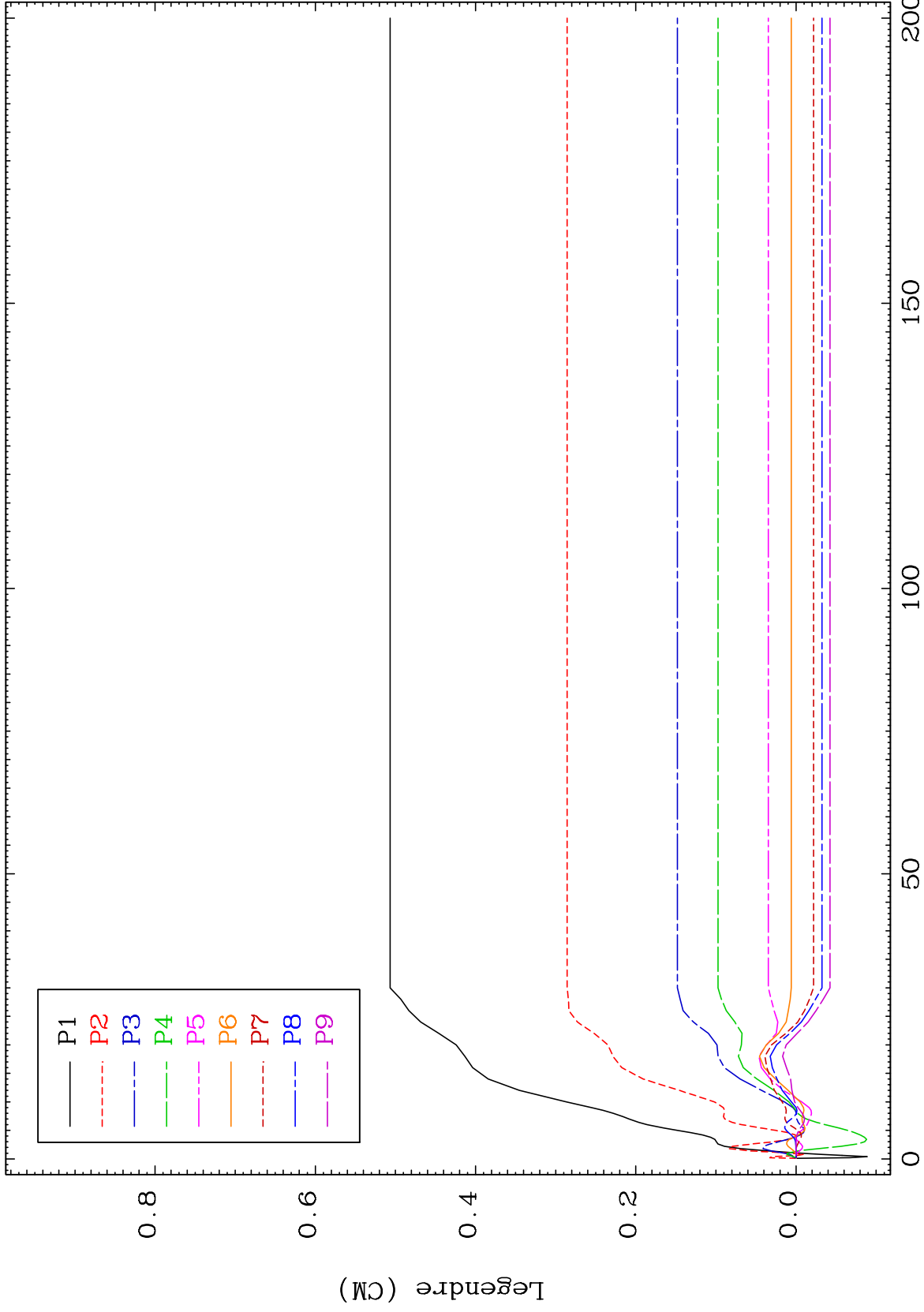
61-Pm-133

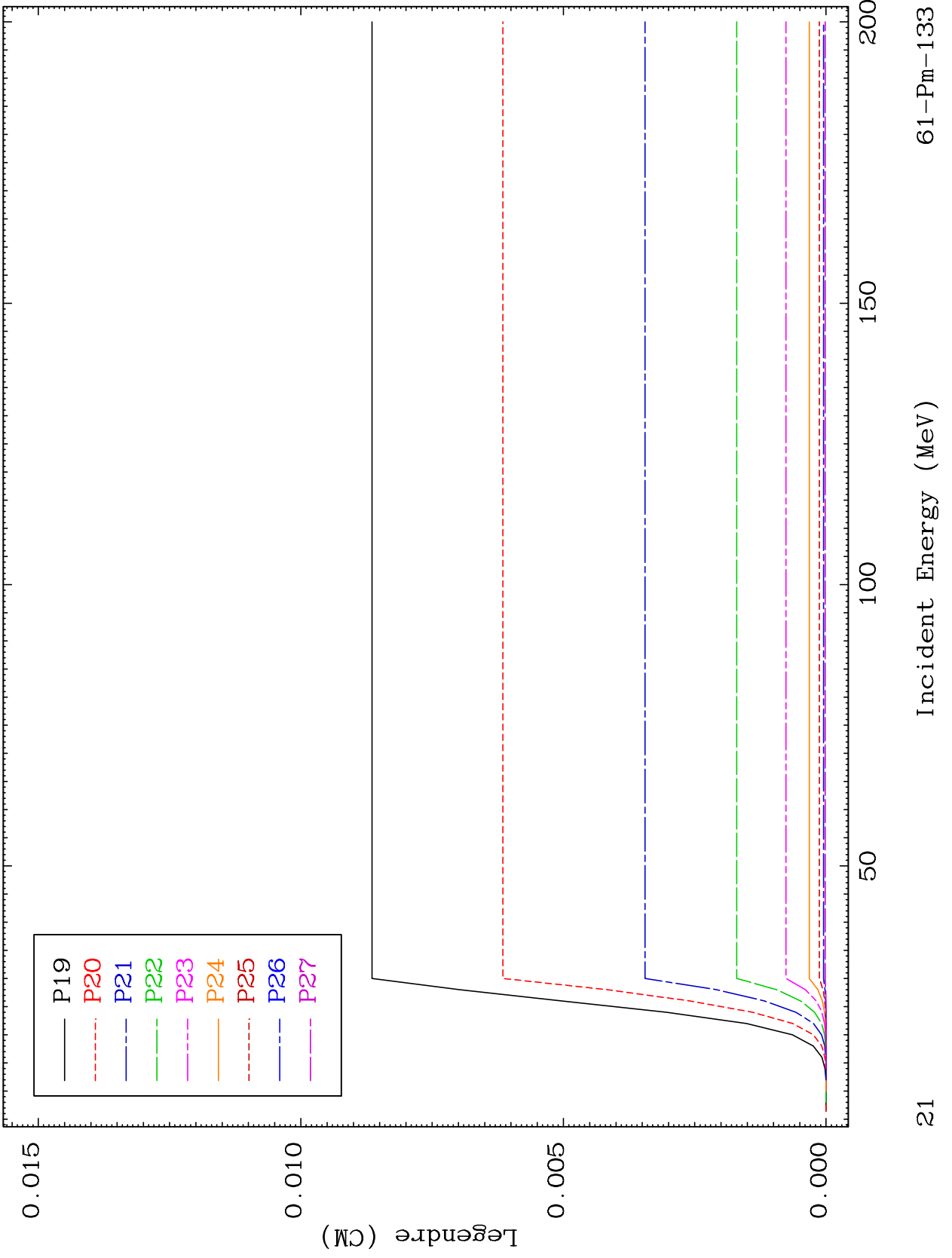


18

Incident Energy (MeV)

61-Pm-133

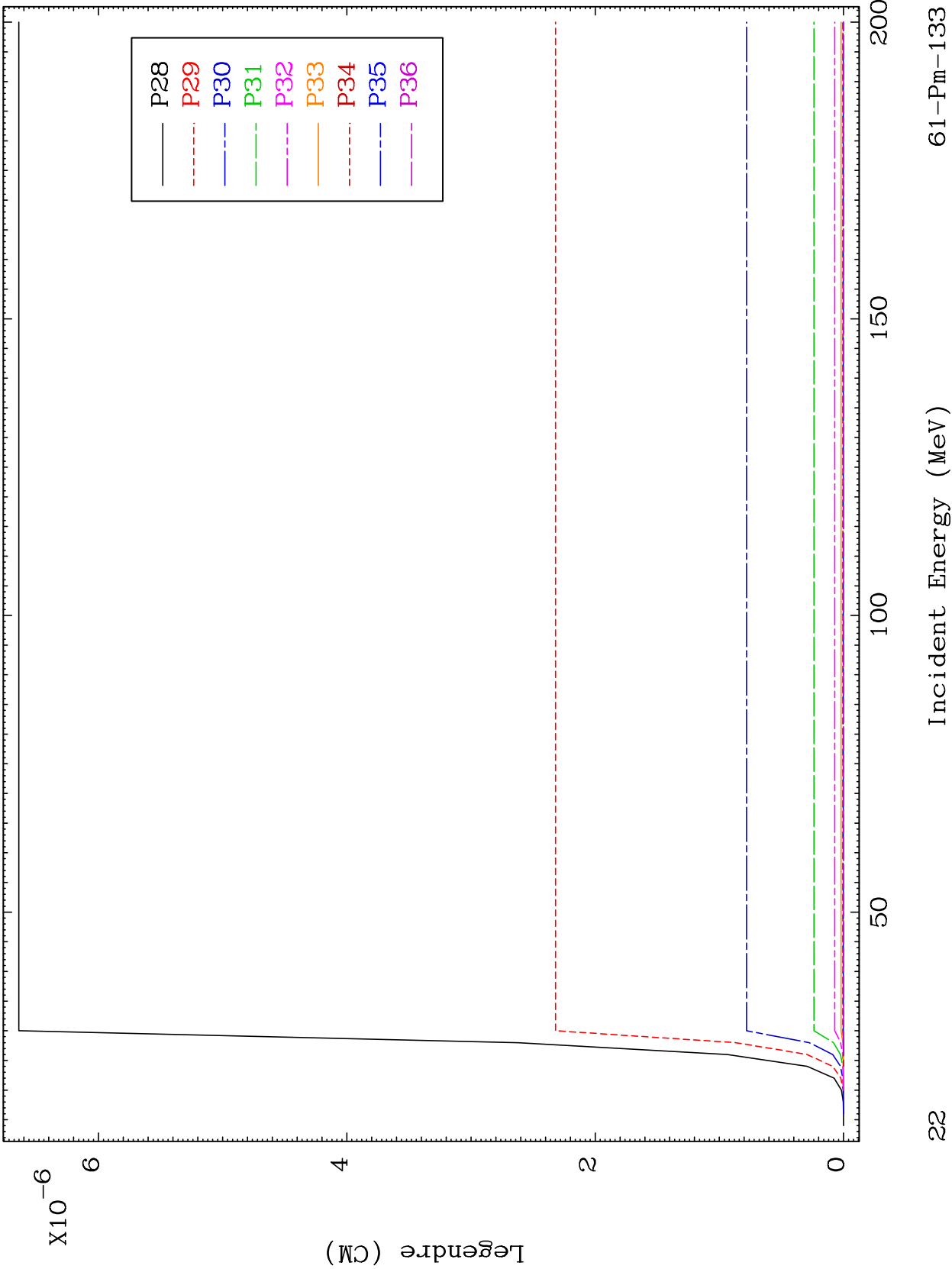




MAT 6107

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

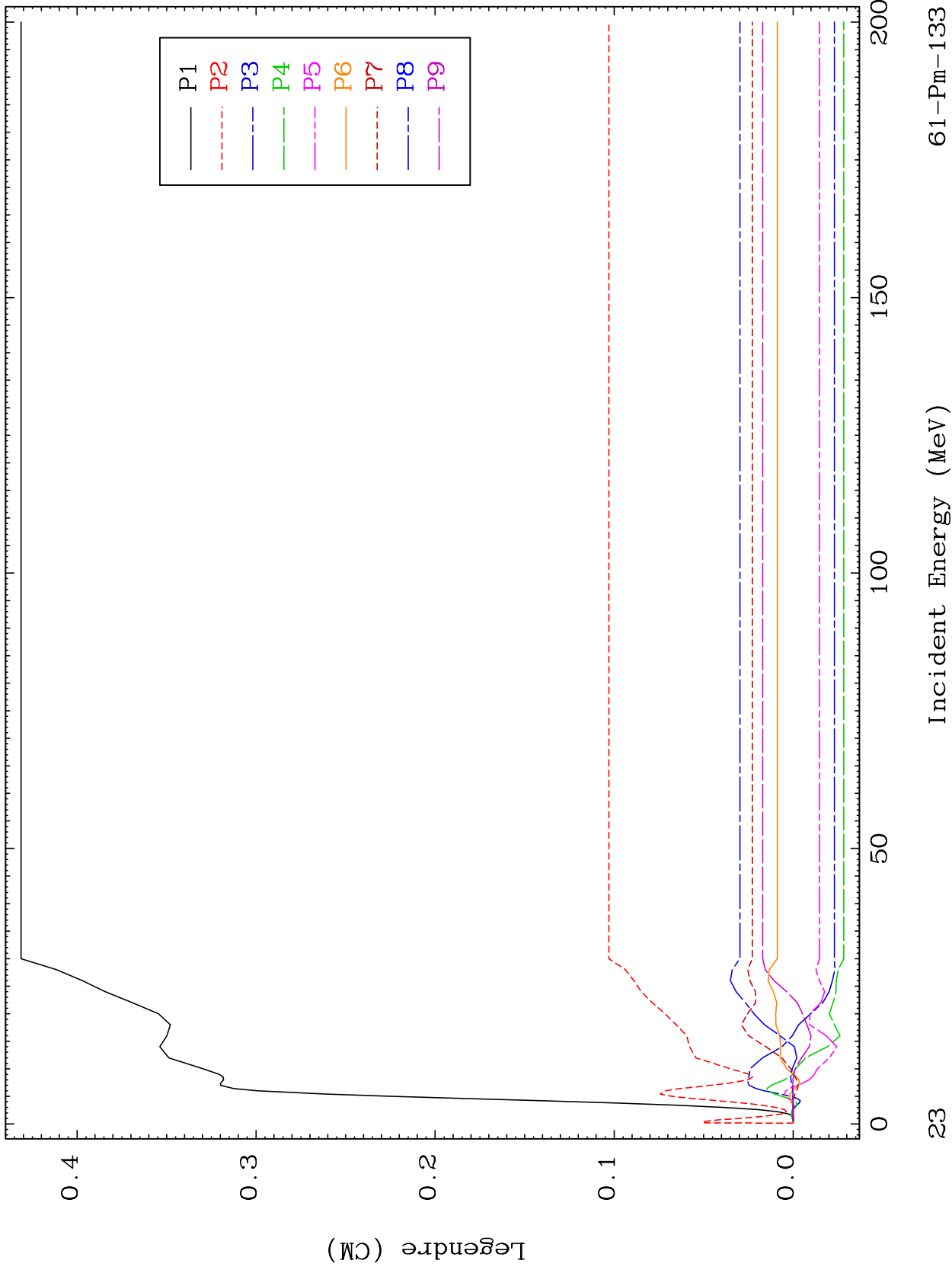
61-Pm-133



22

Incident Energy (MeV)

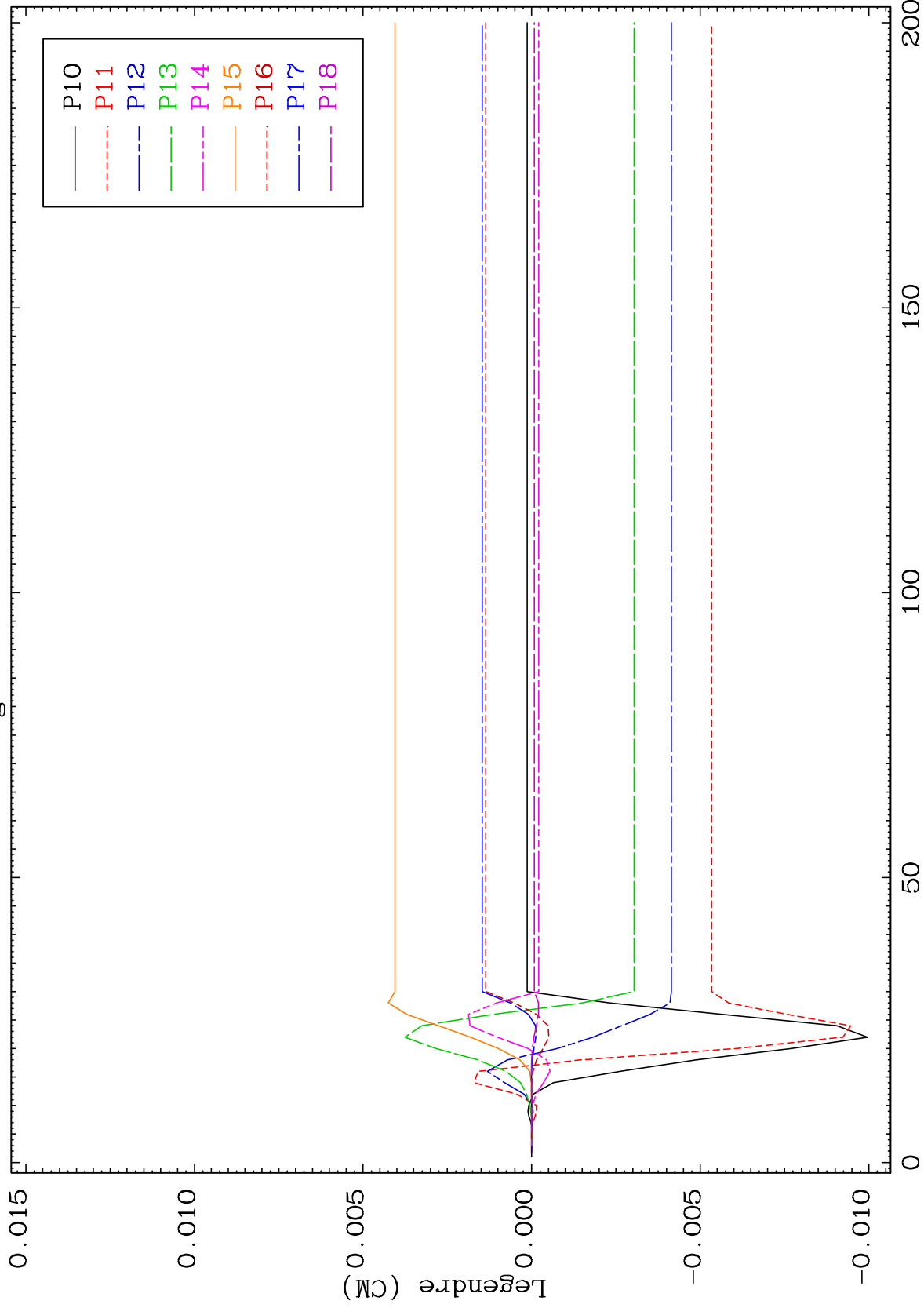
61-Pm-133



MAT 6107

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

61-Pm-133



24

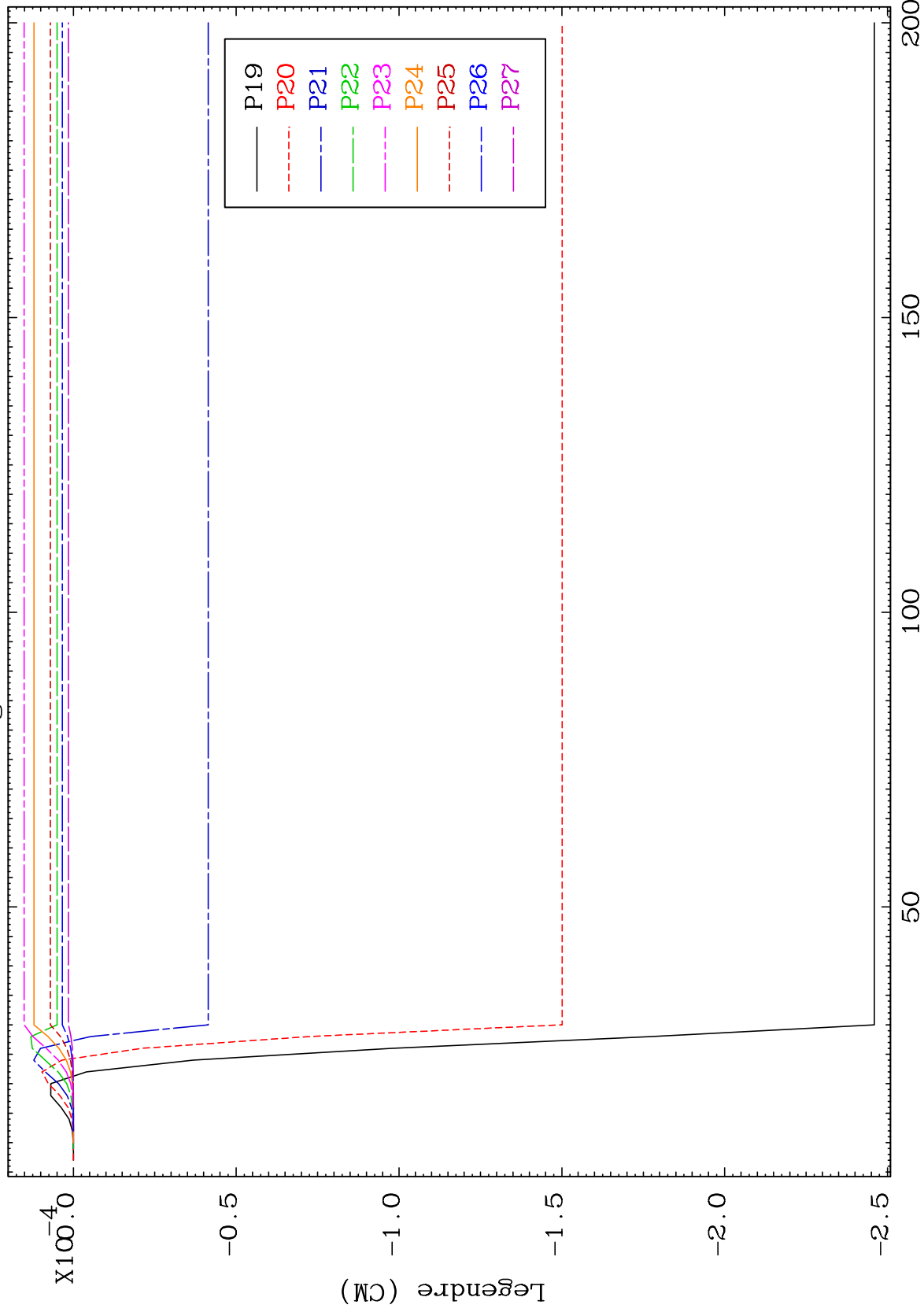
Incident Energy (MeV)

61-Pm-133

MAT 6107

61-Pm-133

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



25

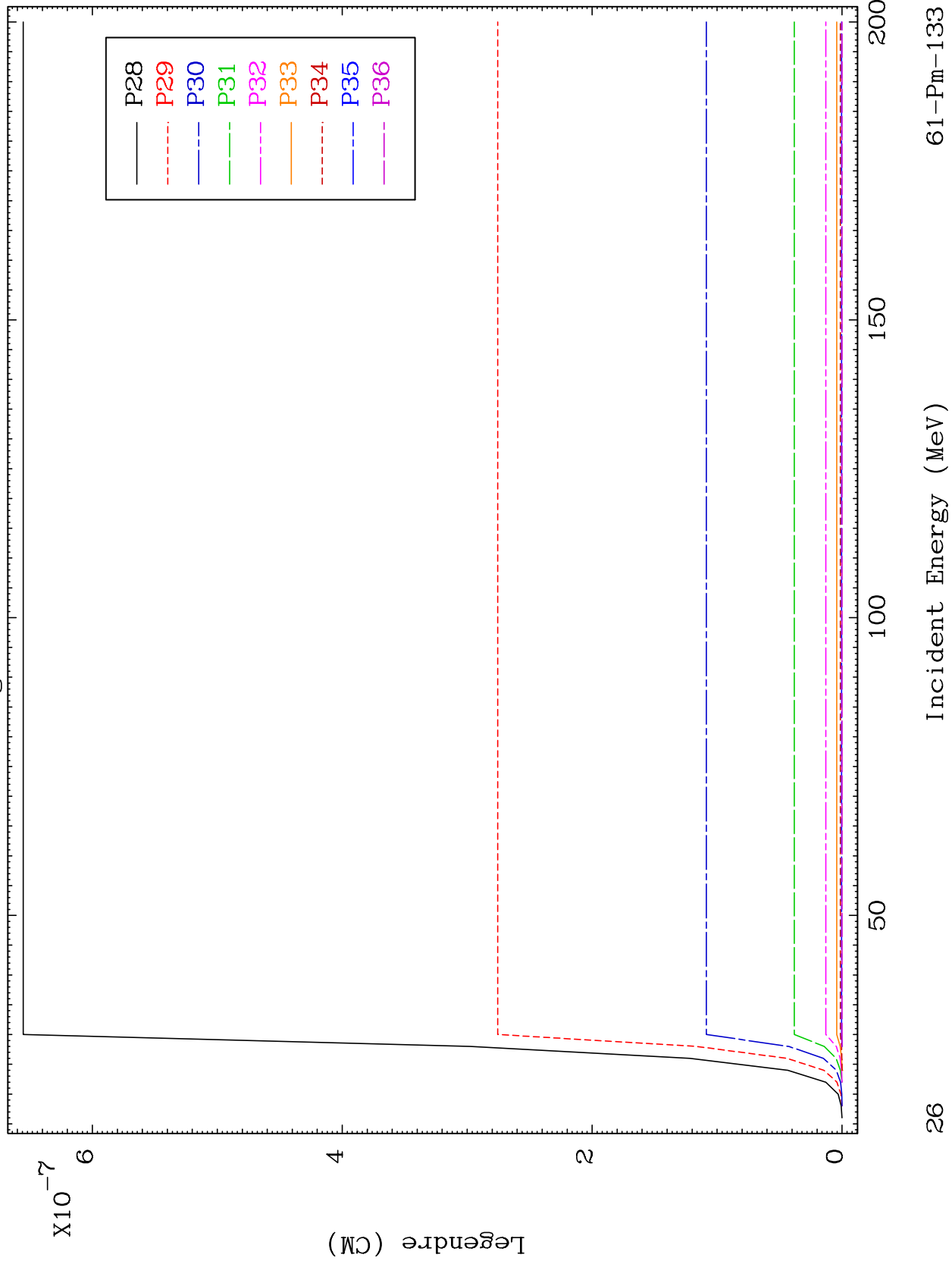
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



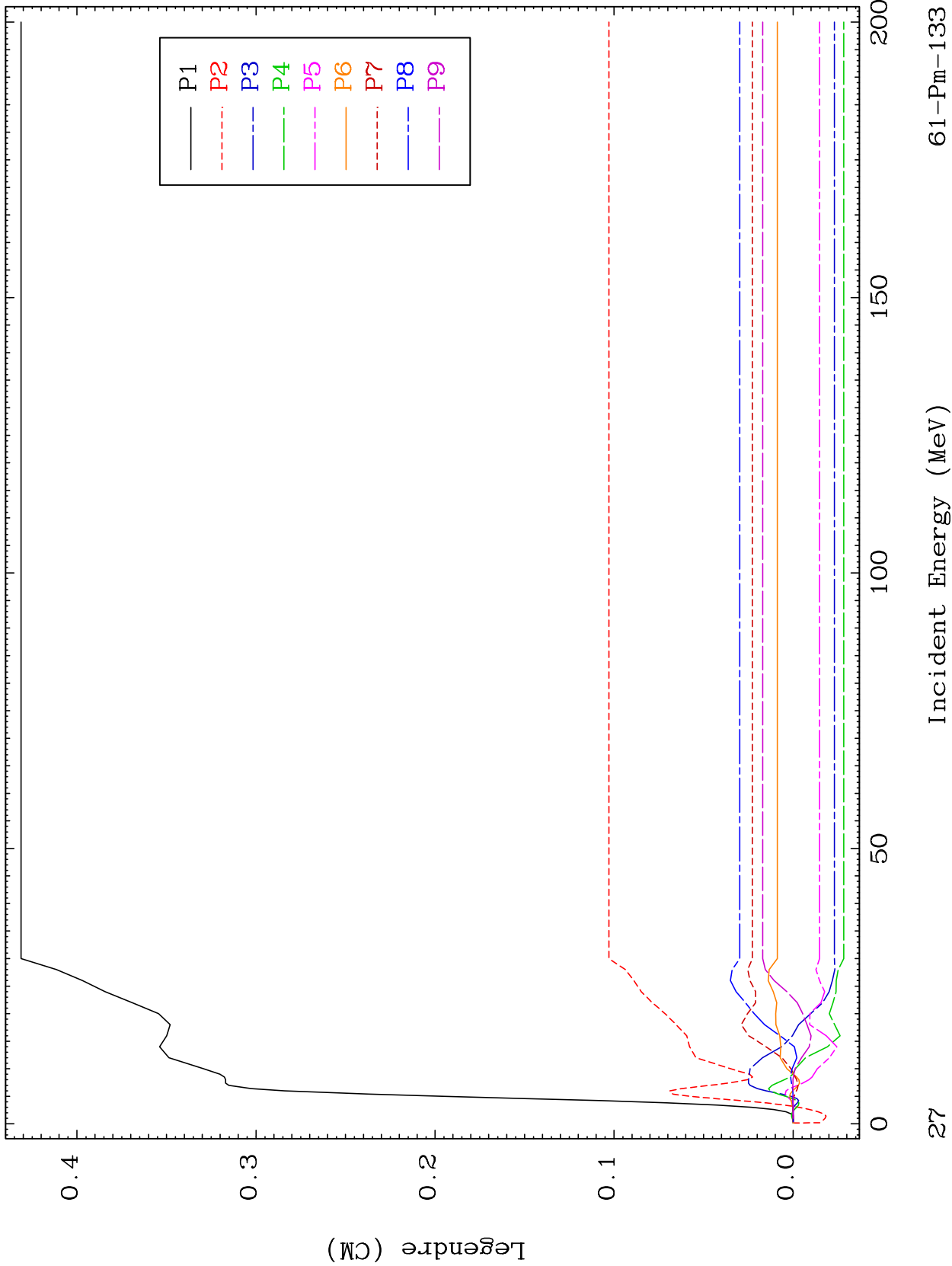
26

61-Pm-133

MAT 6107

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

61-Pm-133



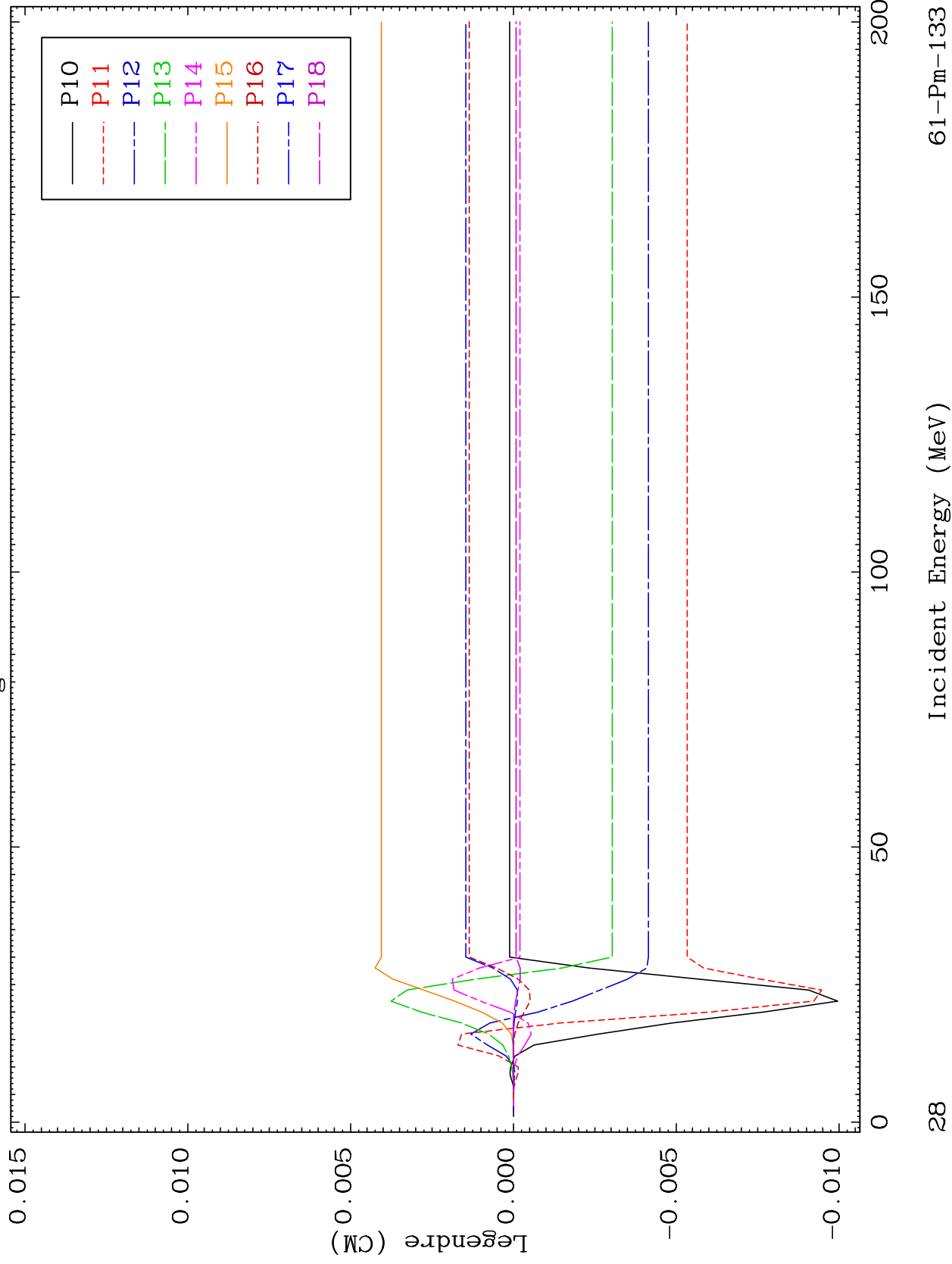
27

61-Pm-133

MAT 6107

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

61-Pm-133



61-Pm-133

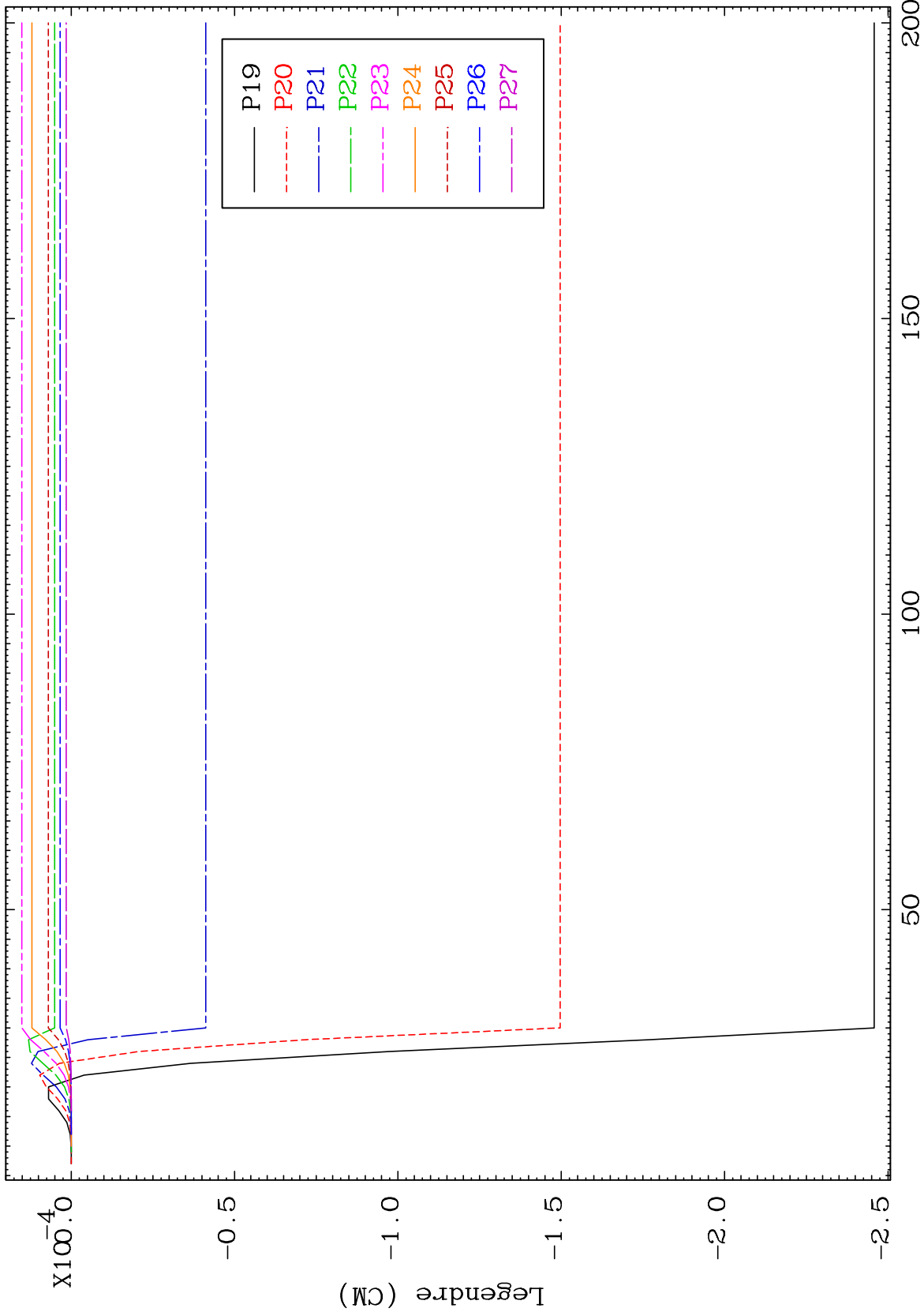
Incident Energy (MeV)

28

MAT 6107

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

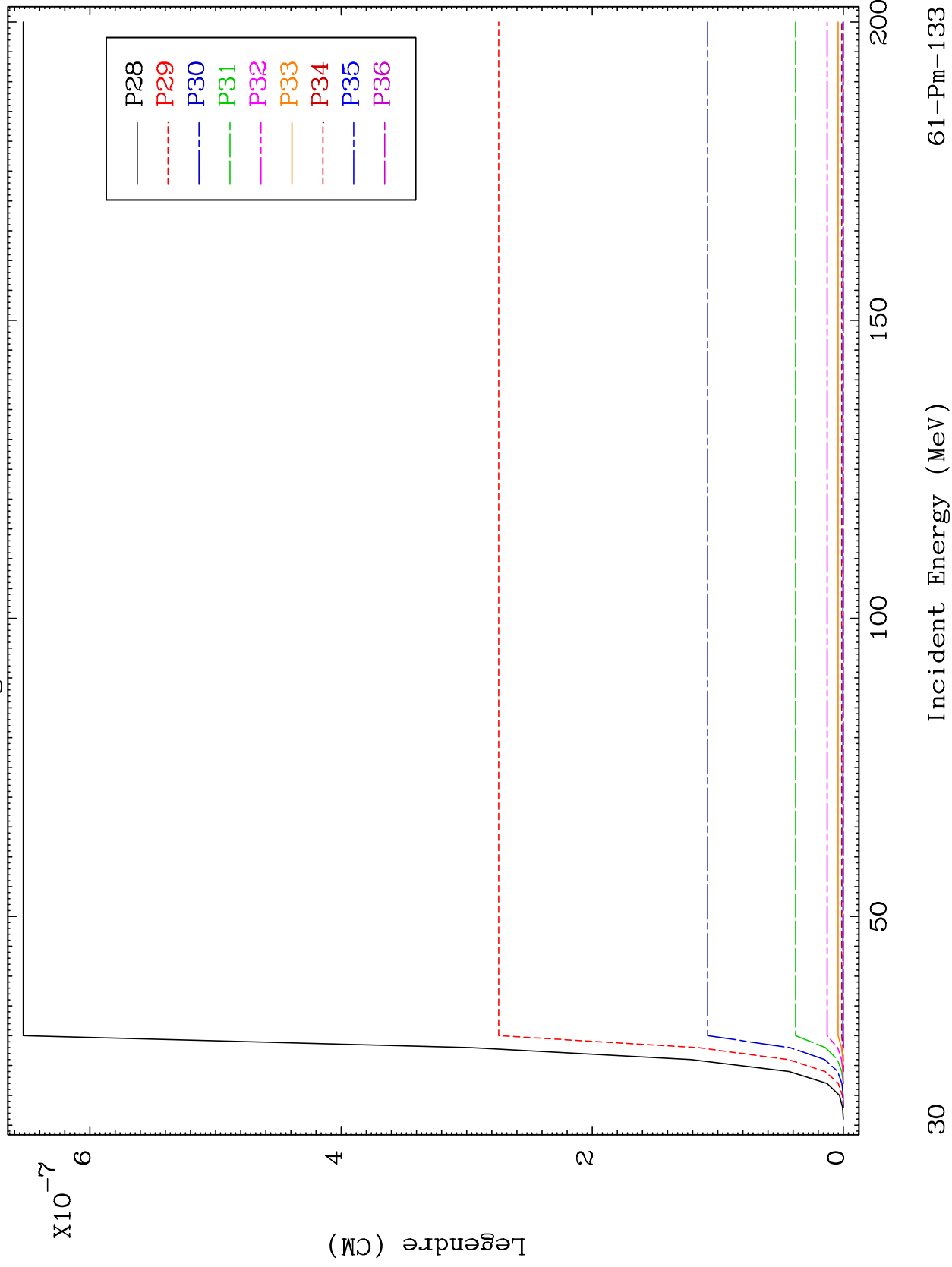
61-Pm-133



MAT 6107

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

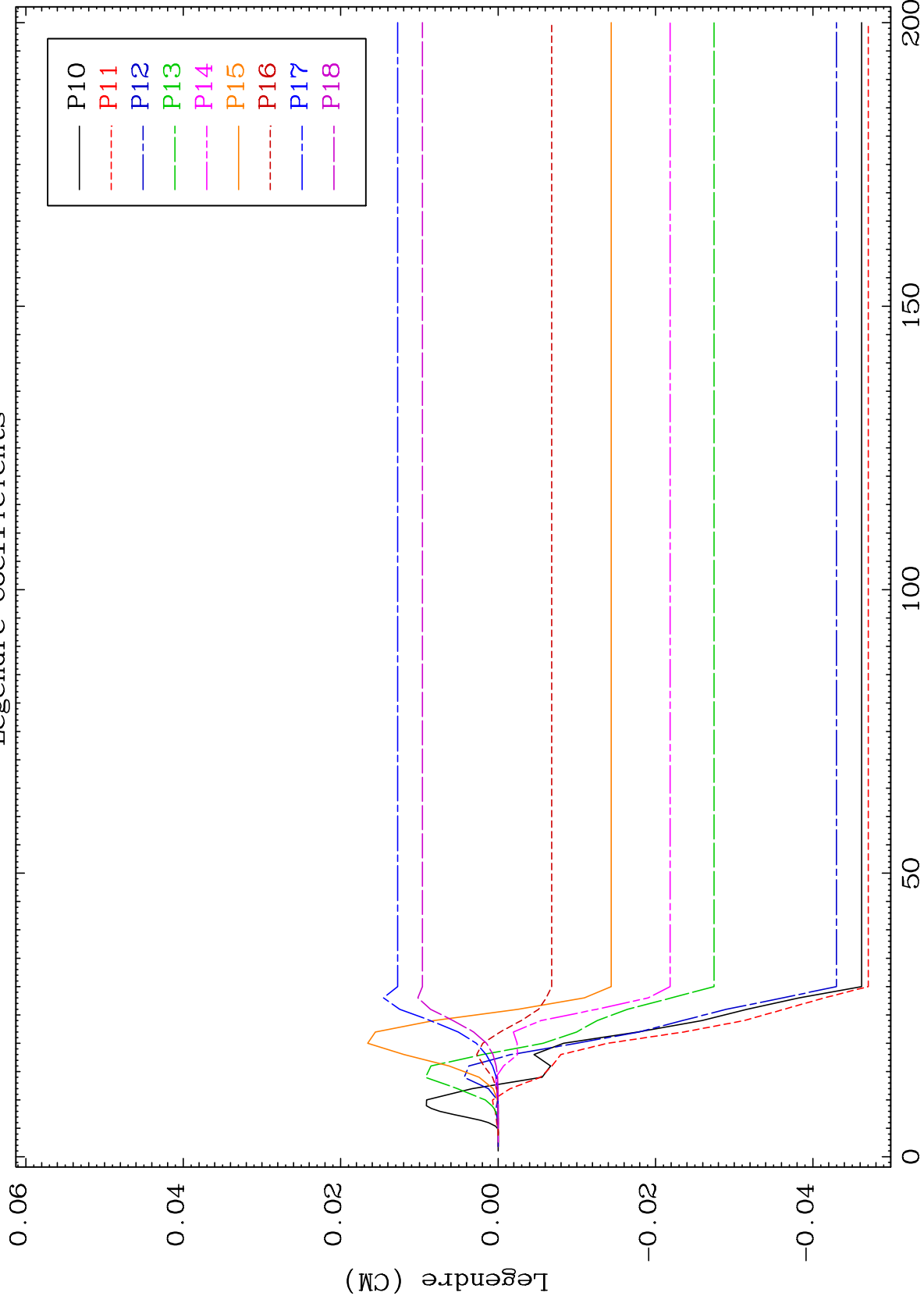
61-Pm-133



MAT 6107

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

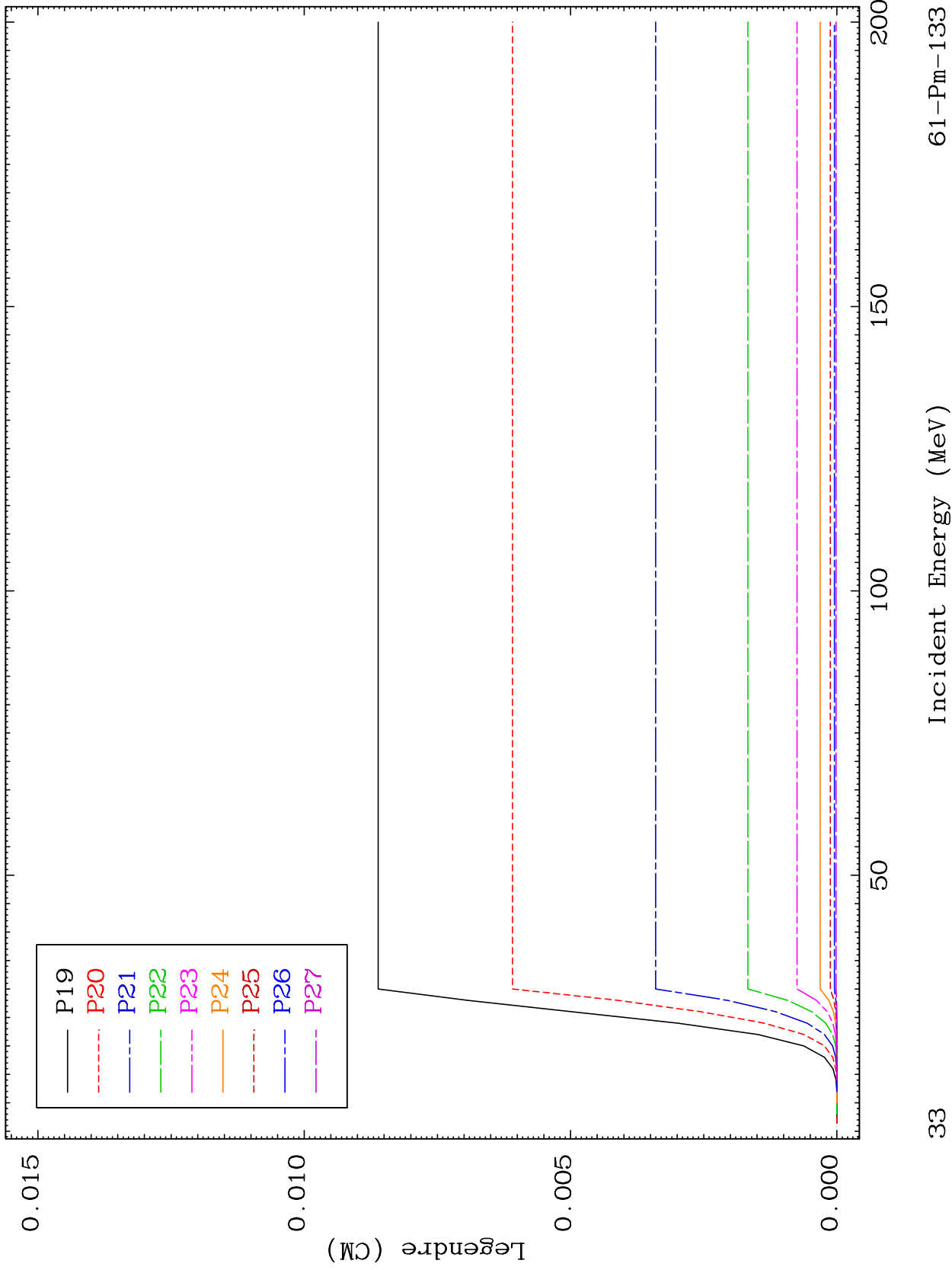
61-Pm-133



32

Incident Energy (MeV)

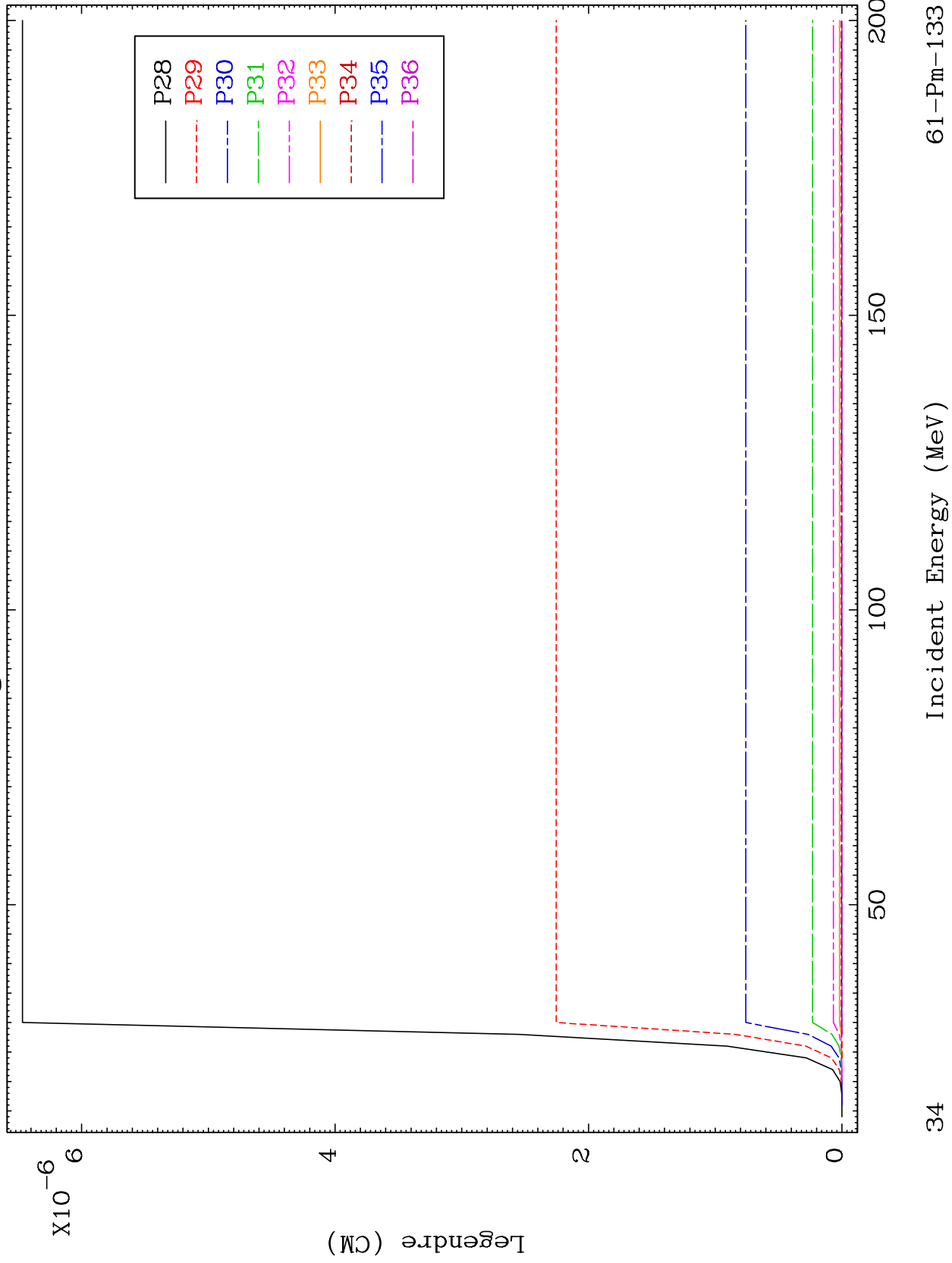
61-Pm-133



MAT 6107

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

61-Pm-133



34

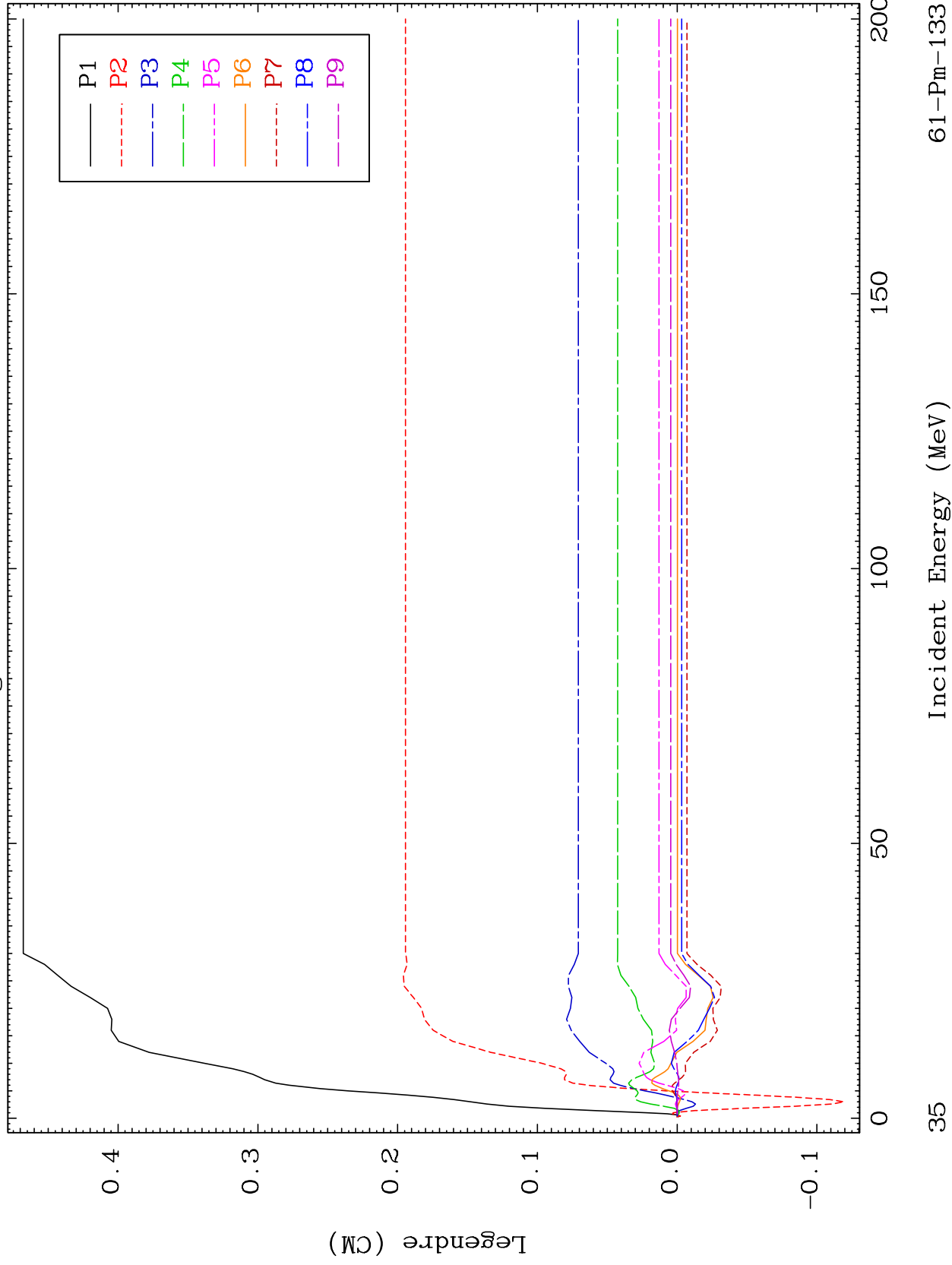
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



61-Pm-133

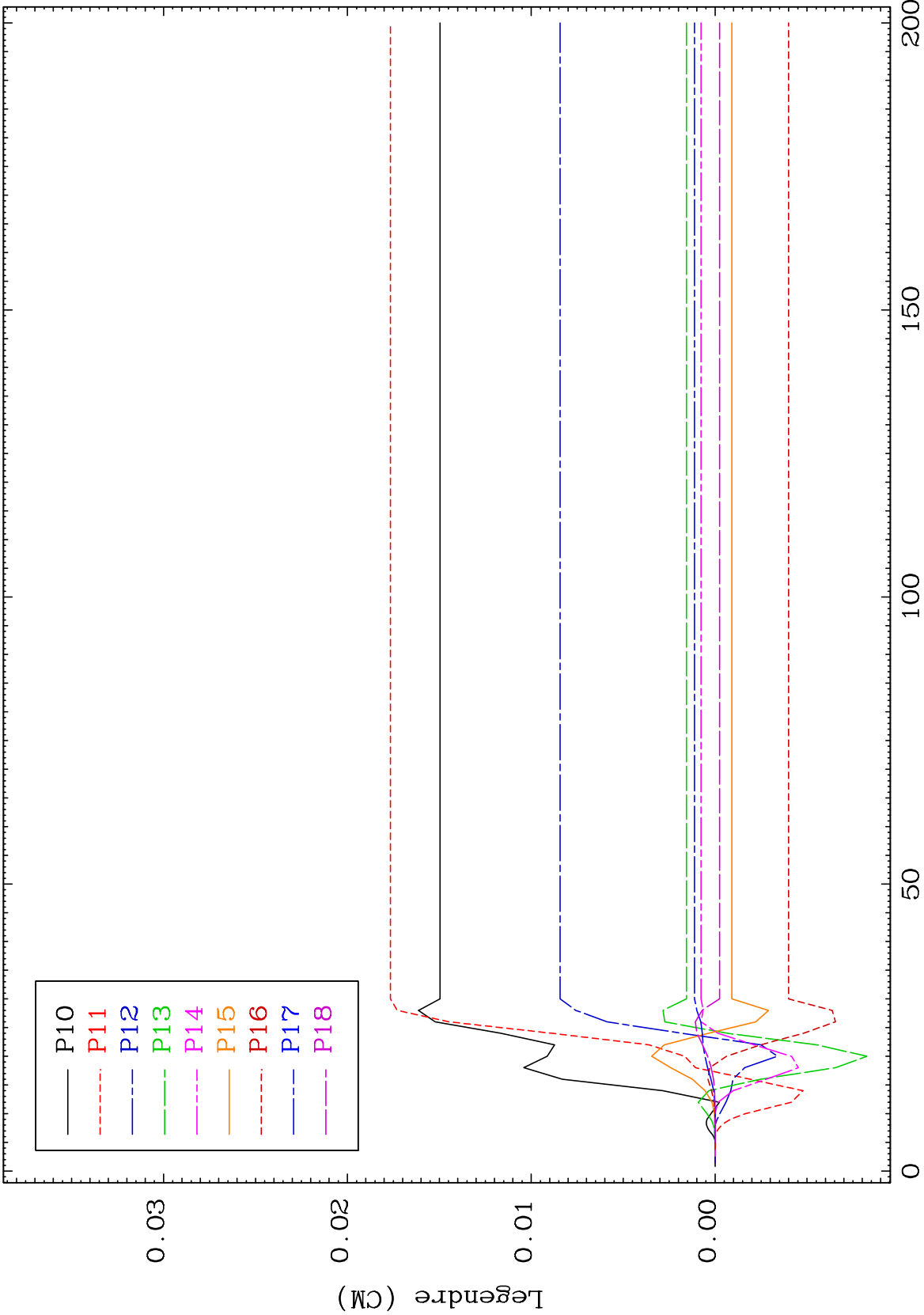
Incident Energy (MeV)

35

MAT 6107

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

61-Pm-133



36

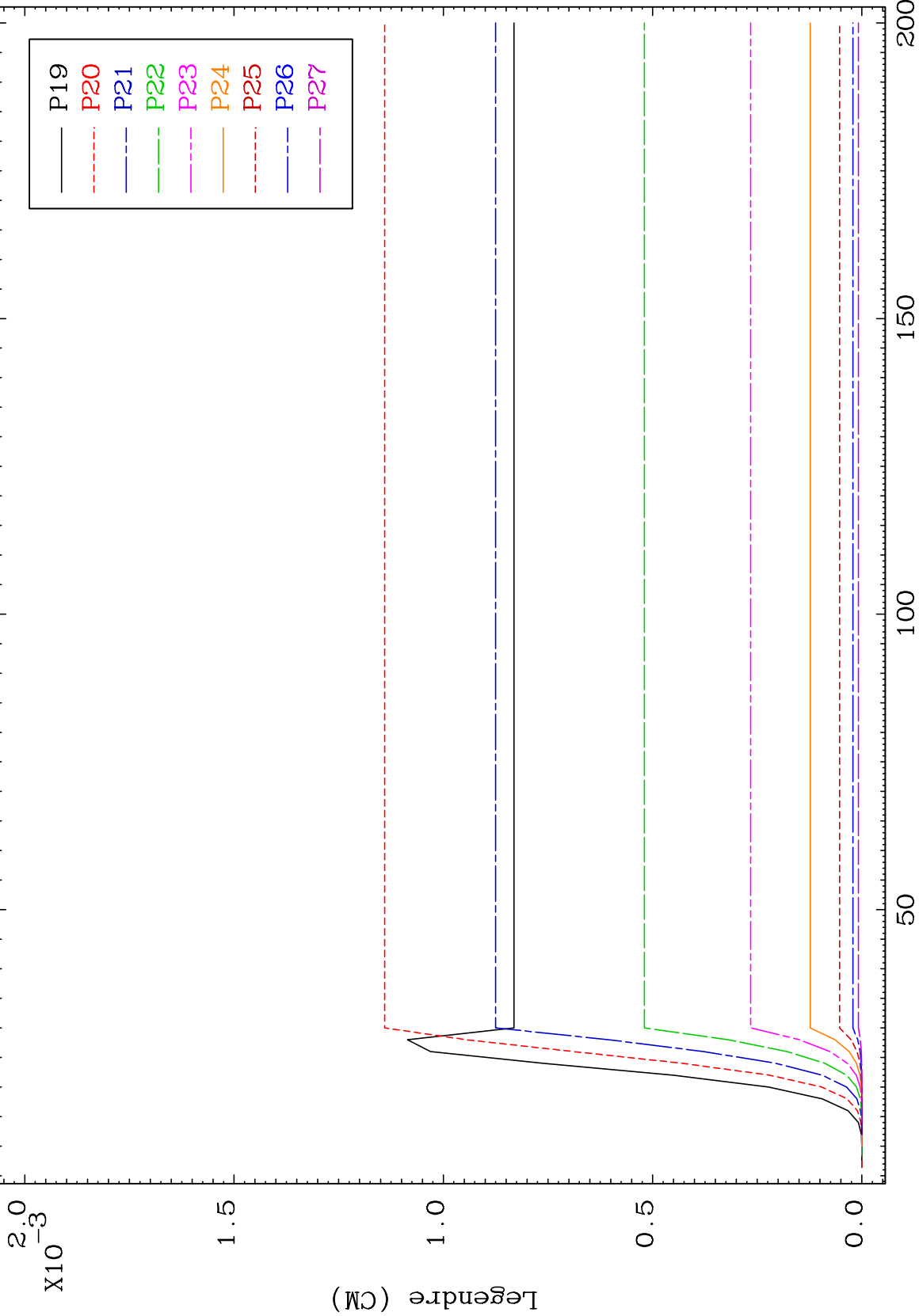
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



37

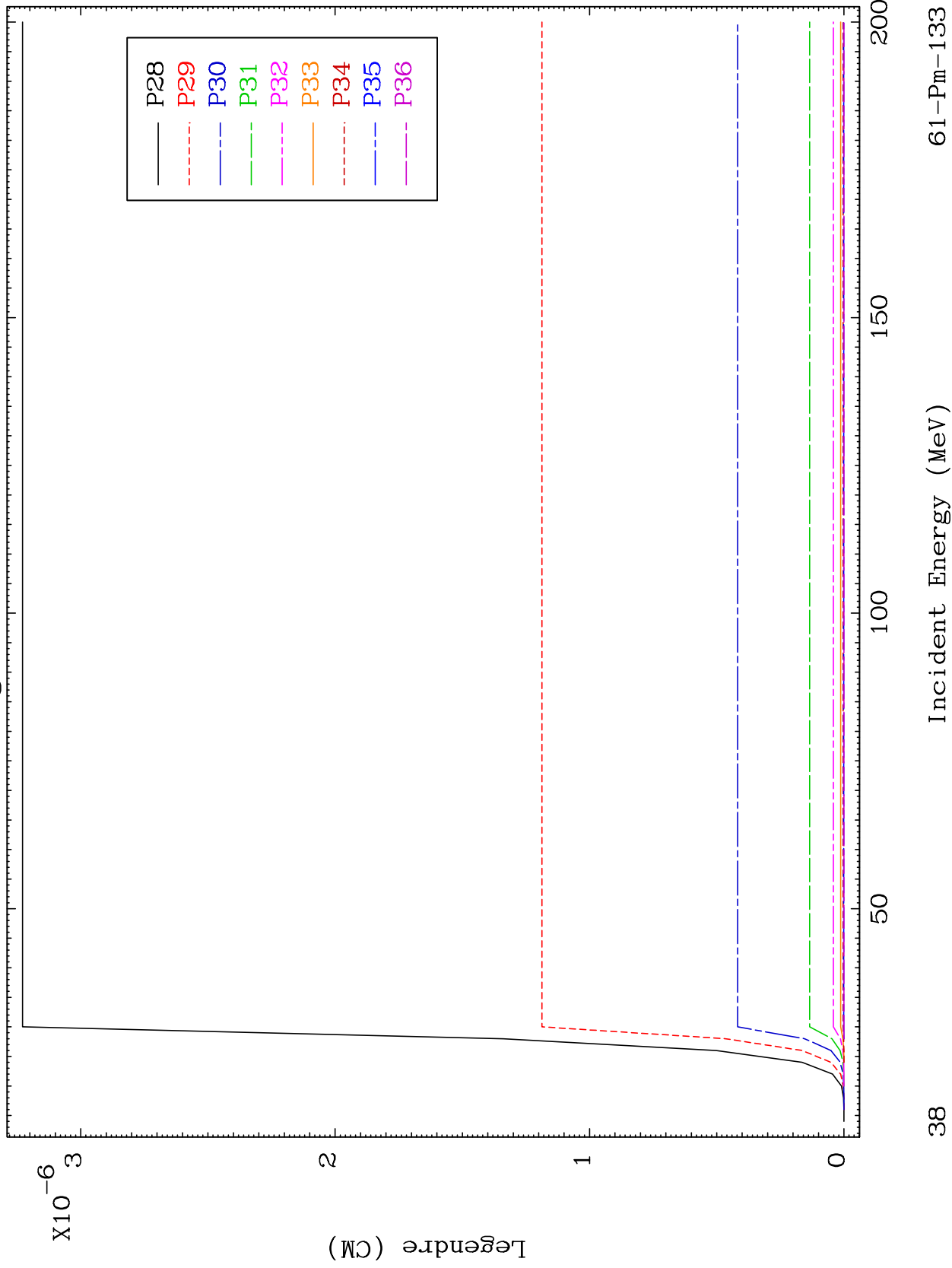
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



38

Incident Energy (MeV)

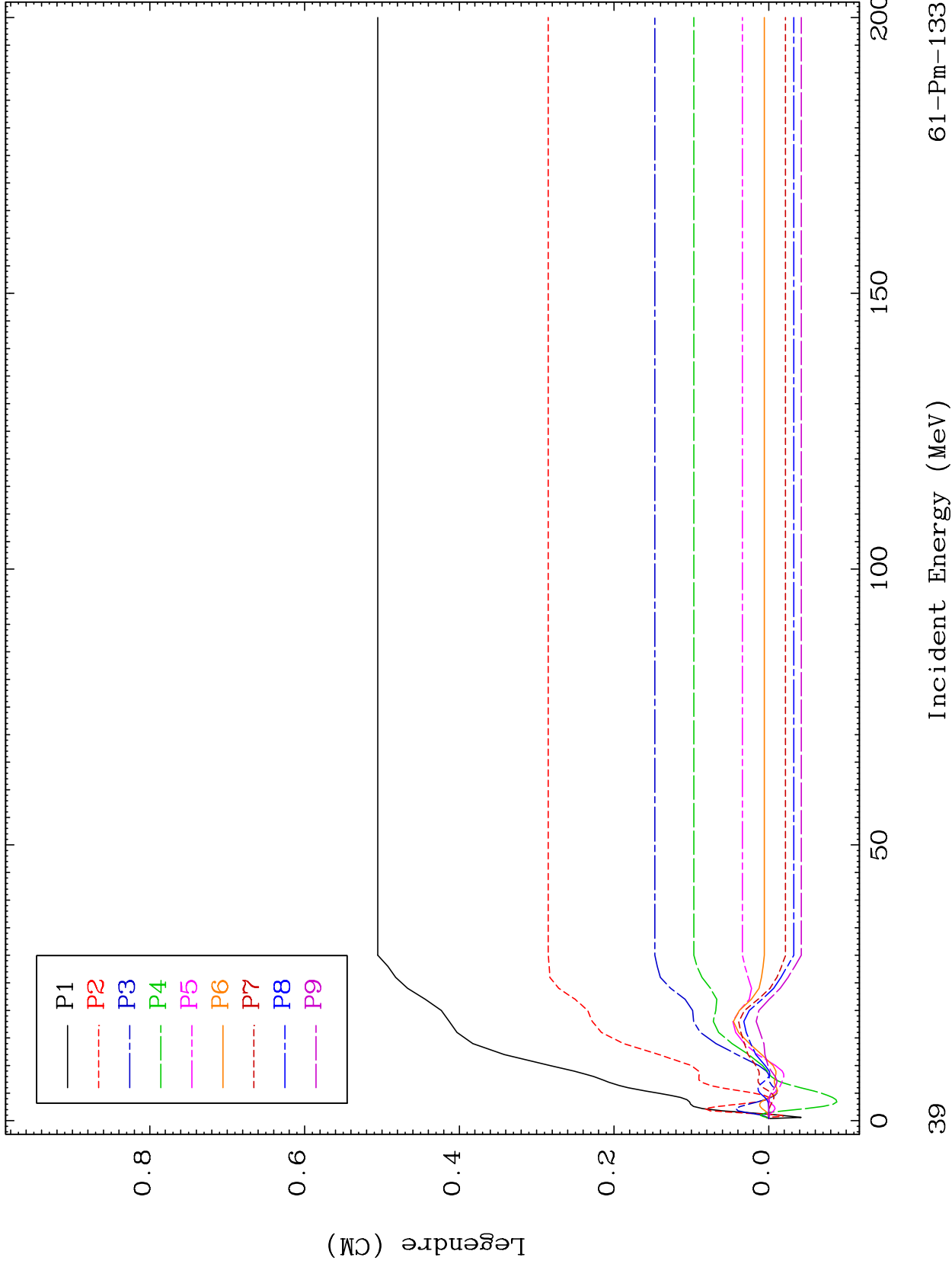
61-Pm-133

200

150

100

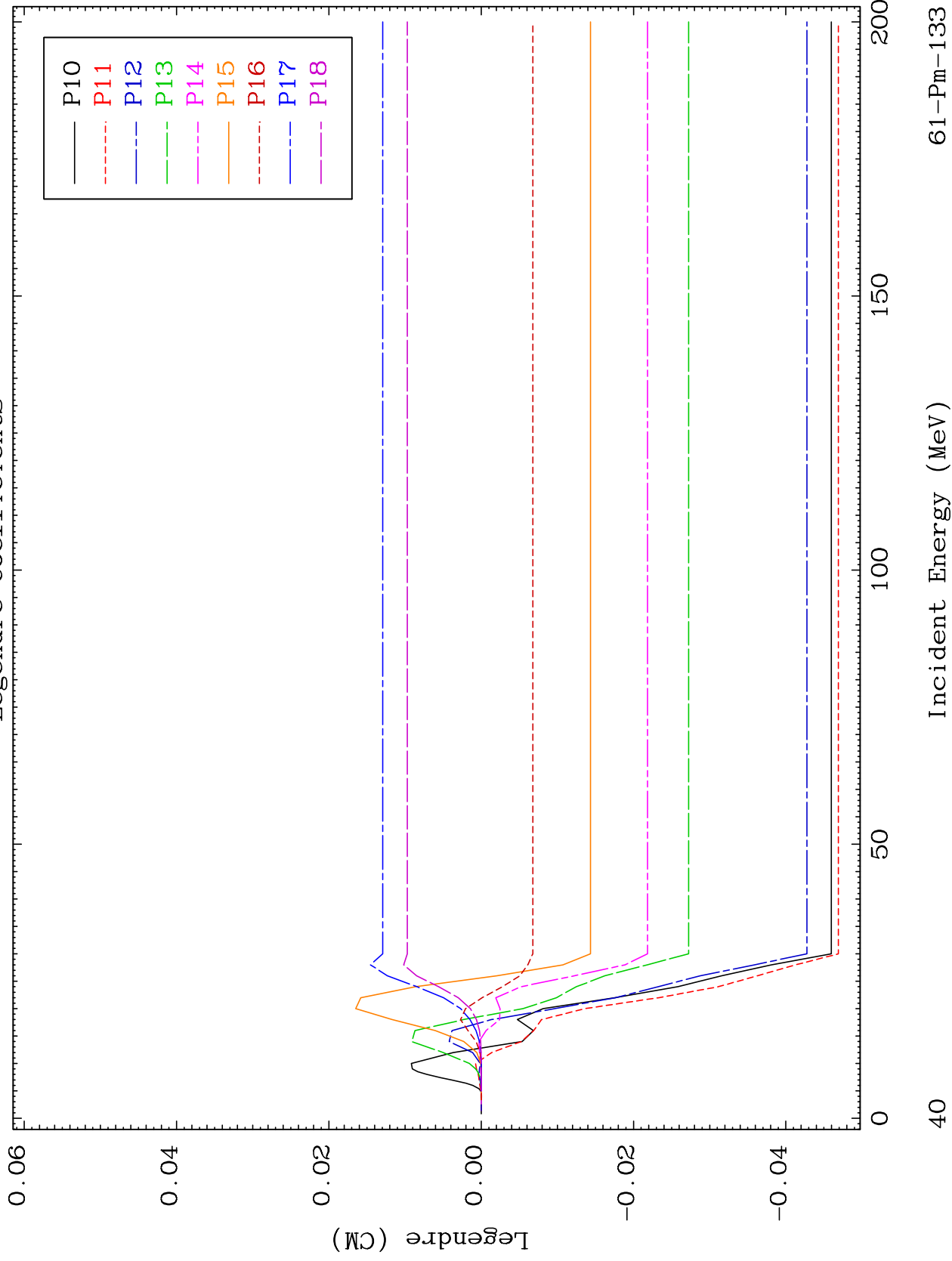
50



MAT 6107

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

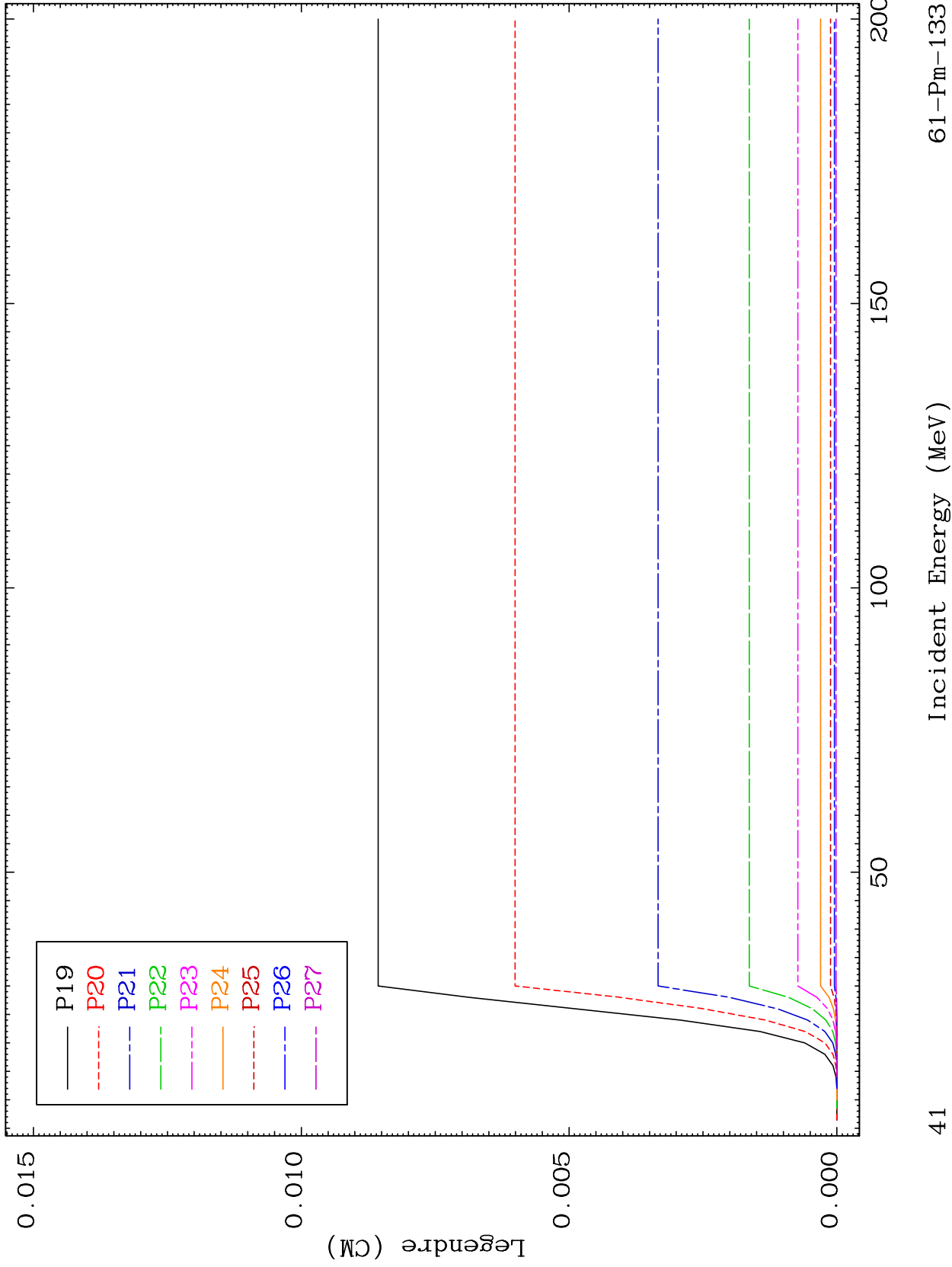
61-Pm-133



61-Pm-133

Incident Energy (MeV)

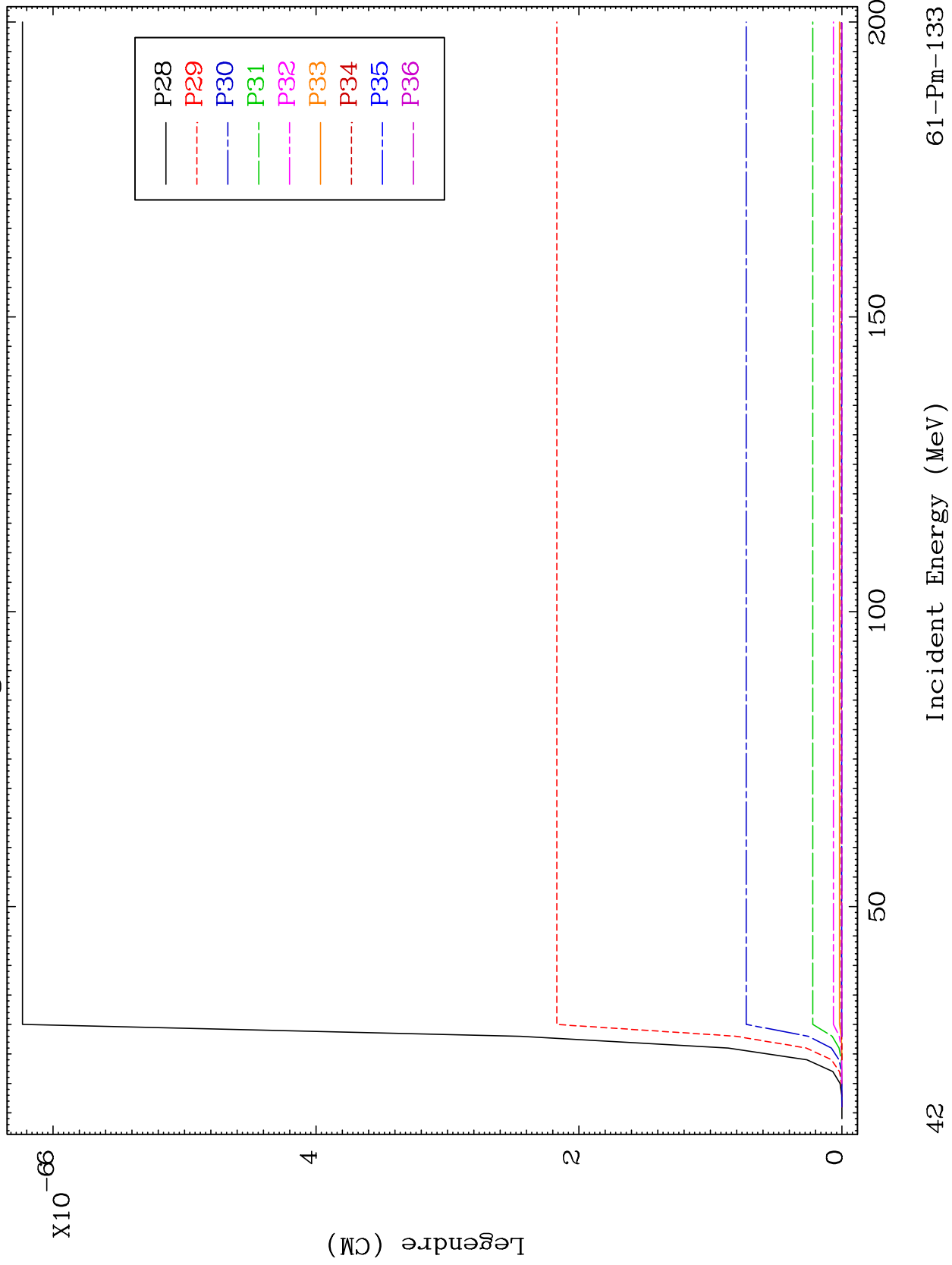
40



MAT 6107

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

61-Pm-133



42

Incident Energy (MeV)

61-Pm-133

200

150

100

50

4

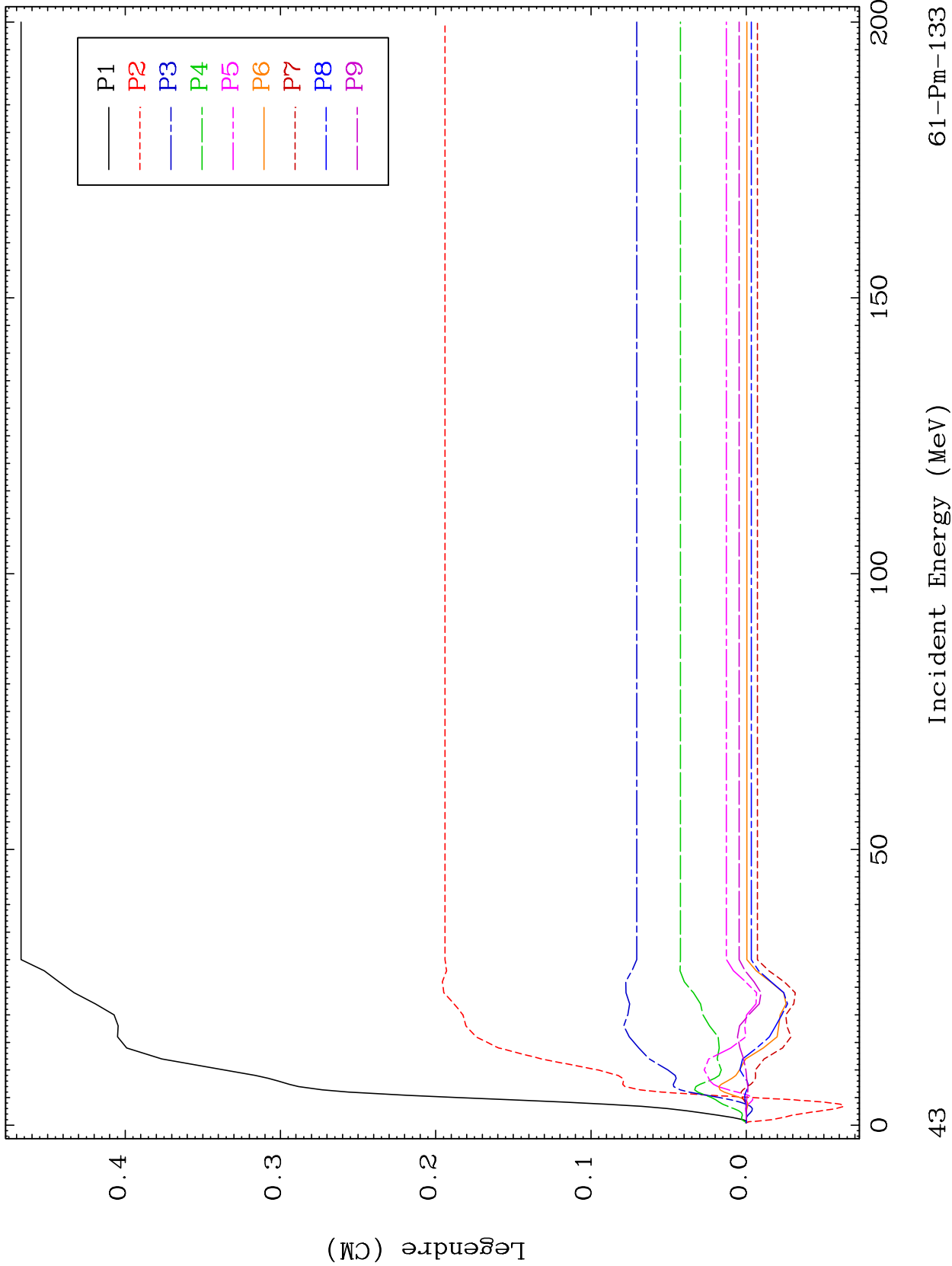
2

0

MAT 6107

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

61-Pm-133



61-Pm-133

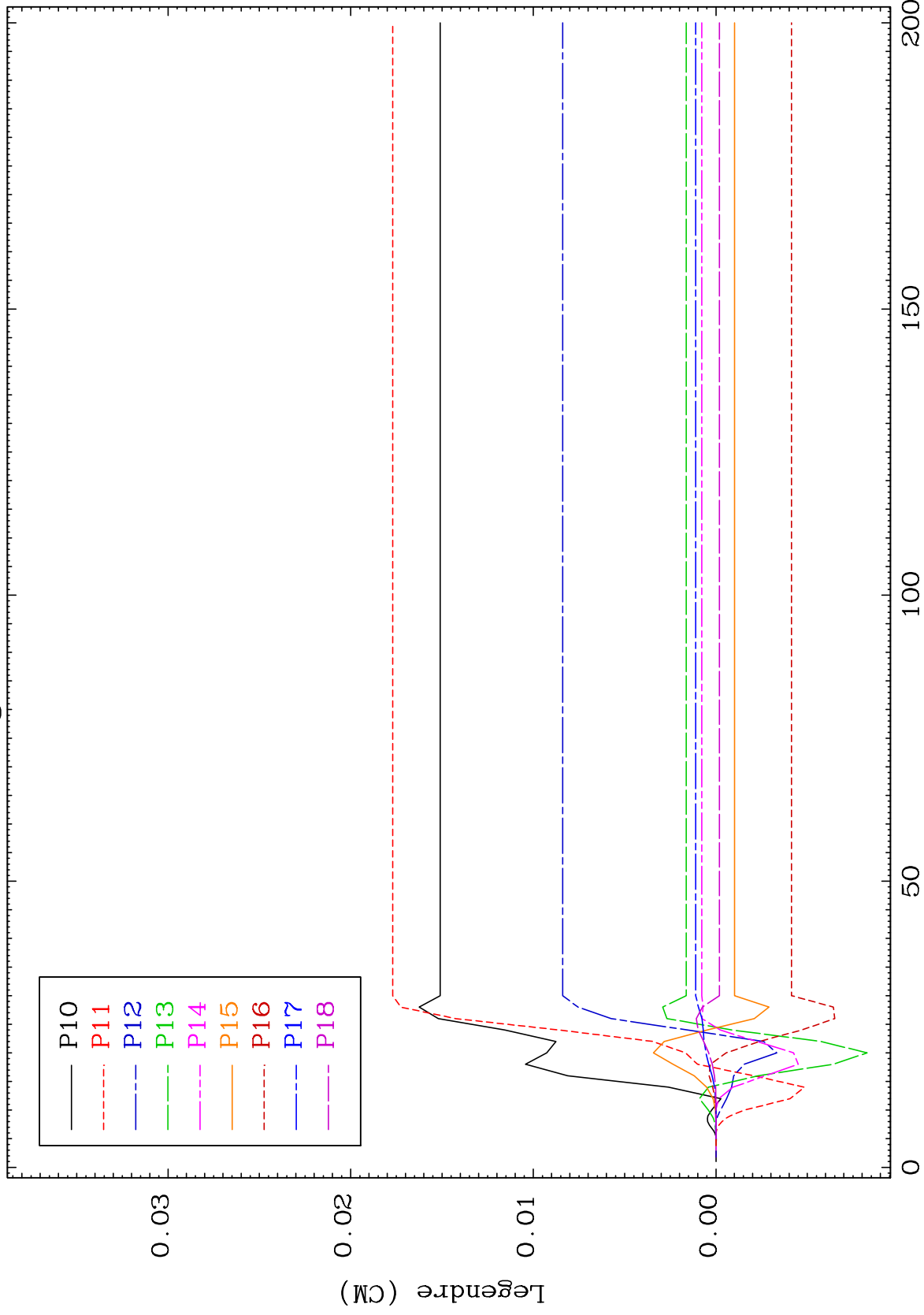
Incident Energy (MeV)

43

MAT 6107

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

61-Pm-133



44

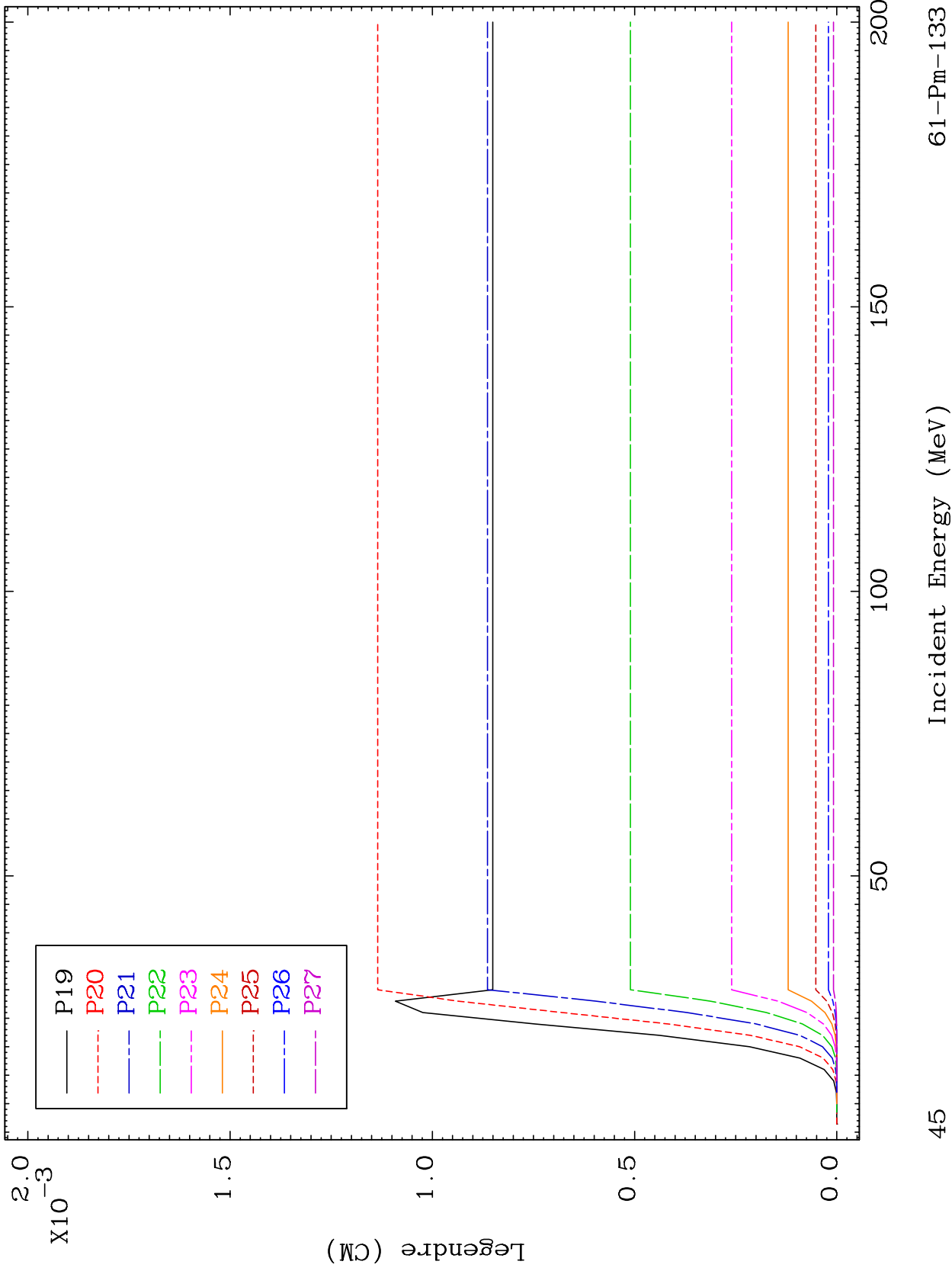
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



45

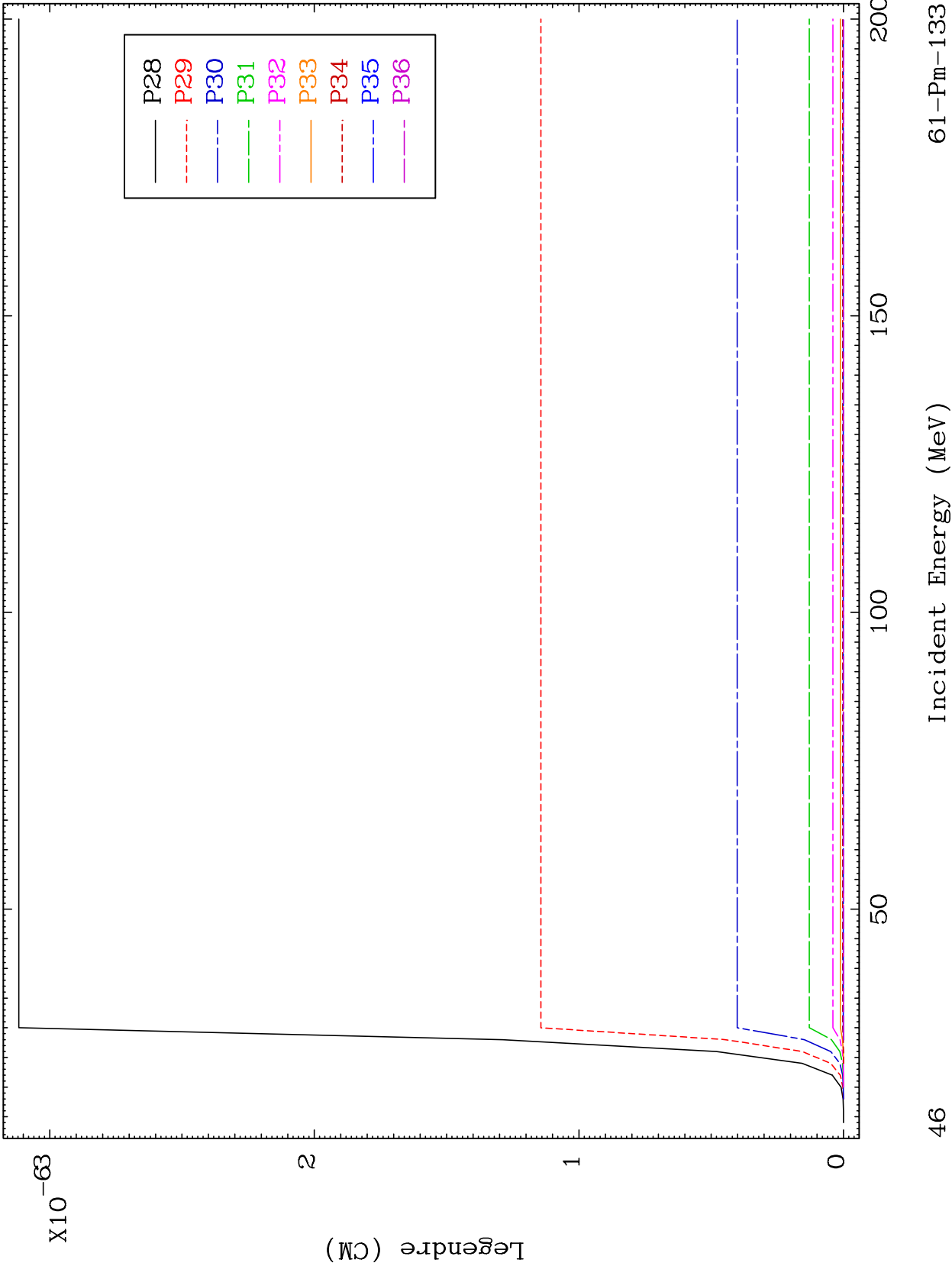
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



46

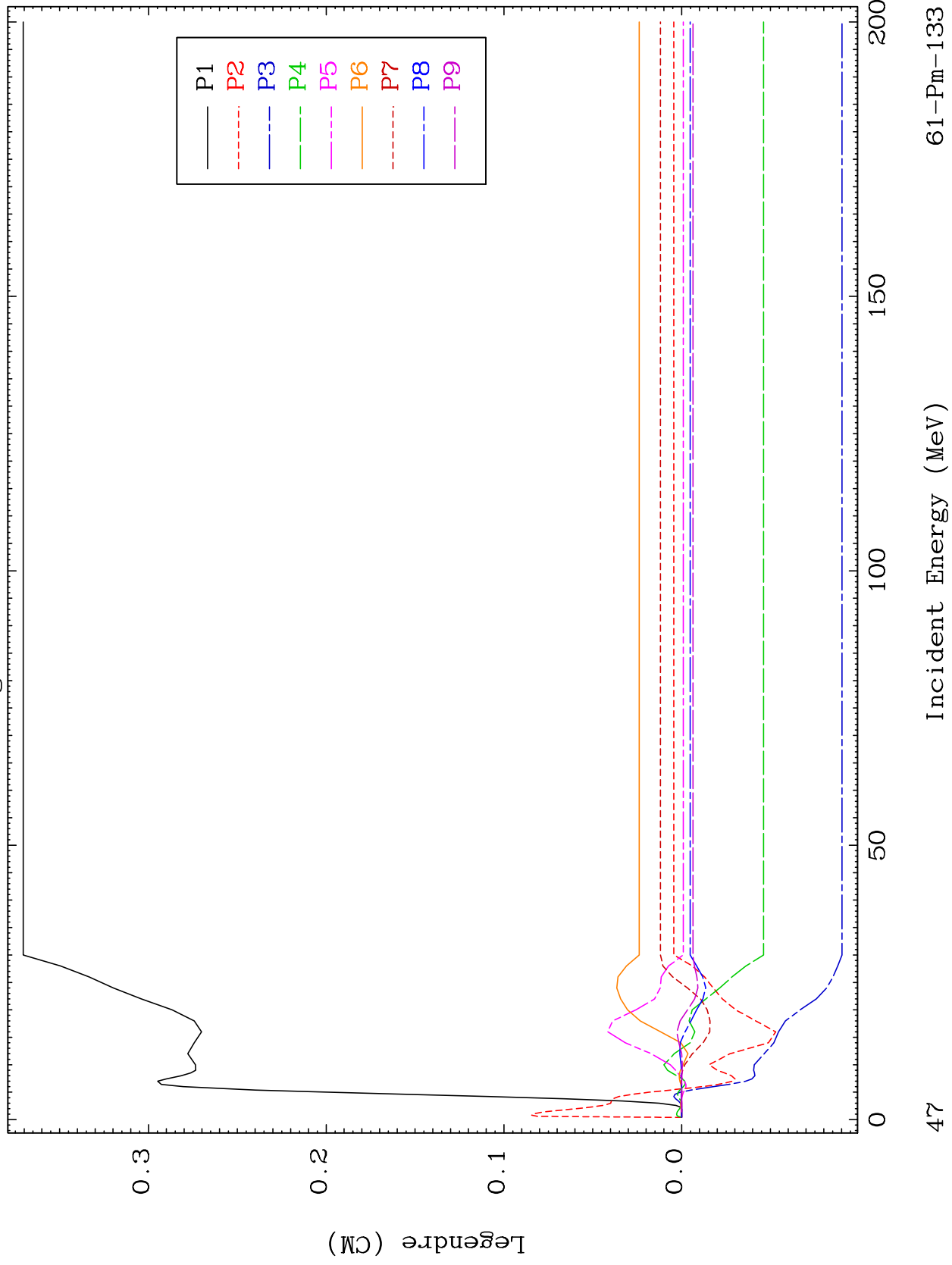
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



61-Pm-133

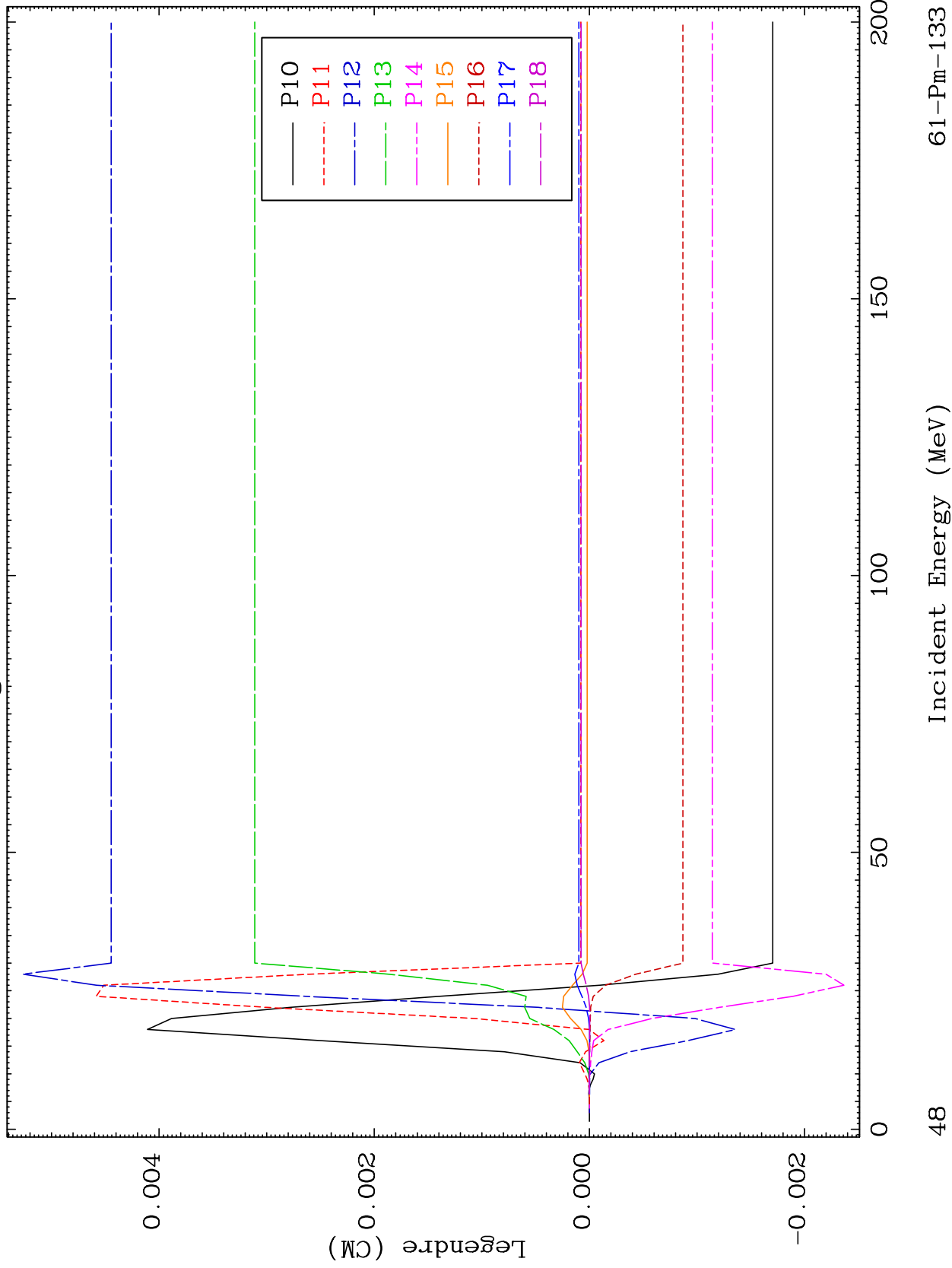
Incident Energy (MeV)

47

MAT 6107

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

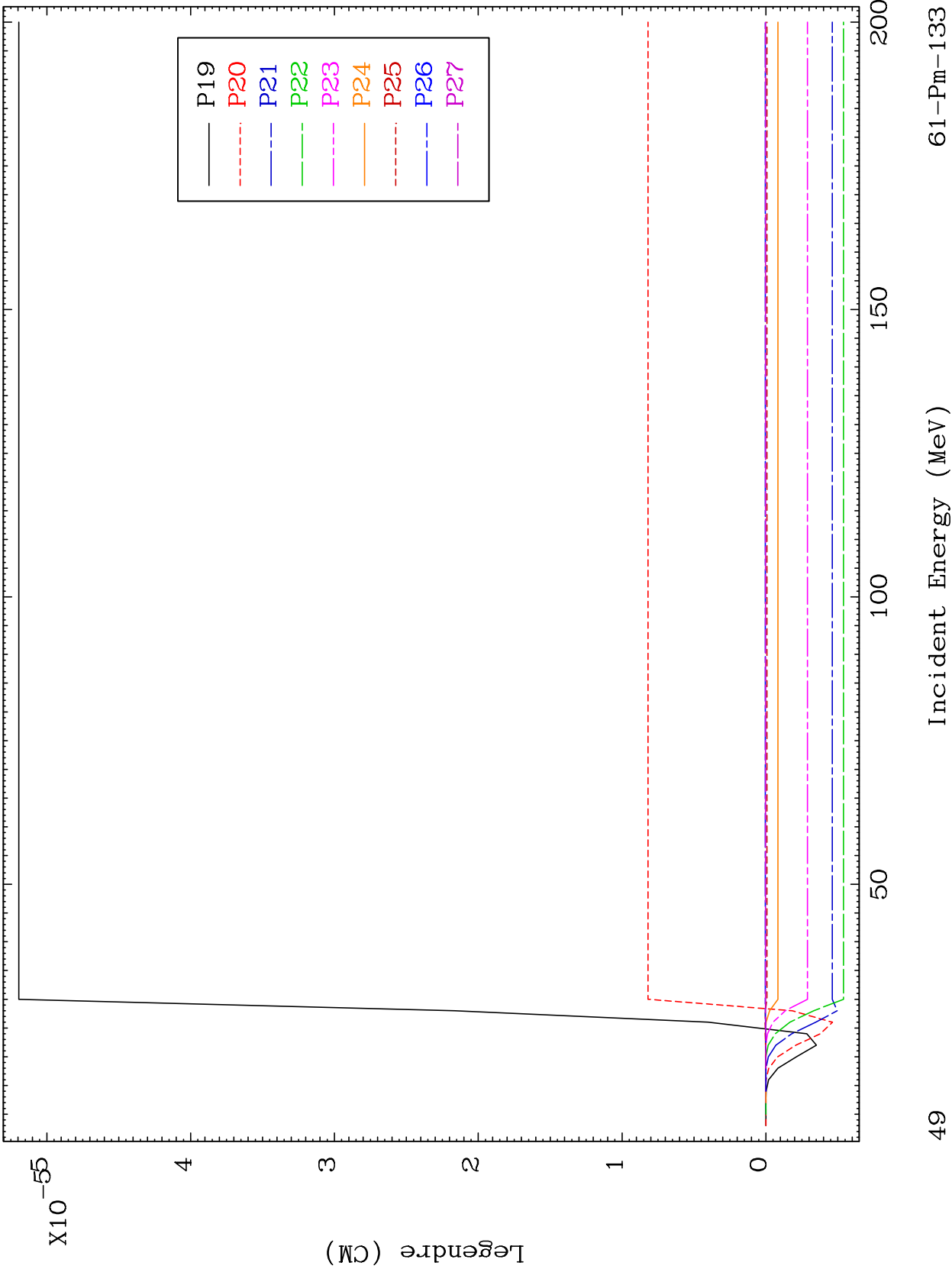
61-Pm-133



61-Pm-133

Incident Energy (MeV)

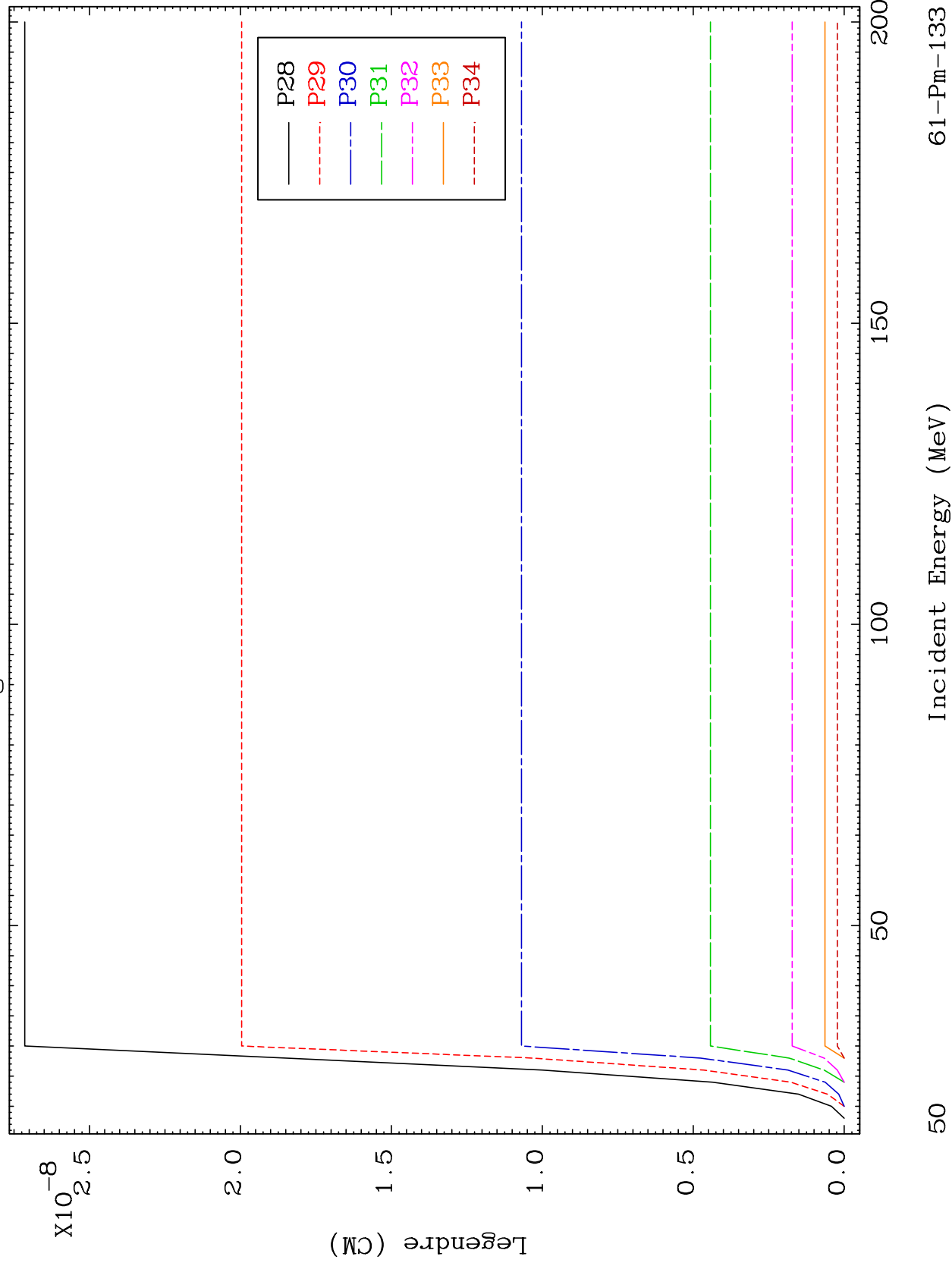
48



MAT 6107

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

61-Pm-133

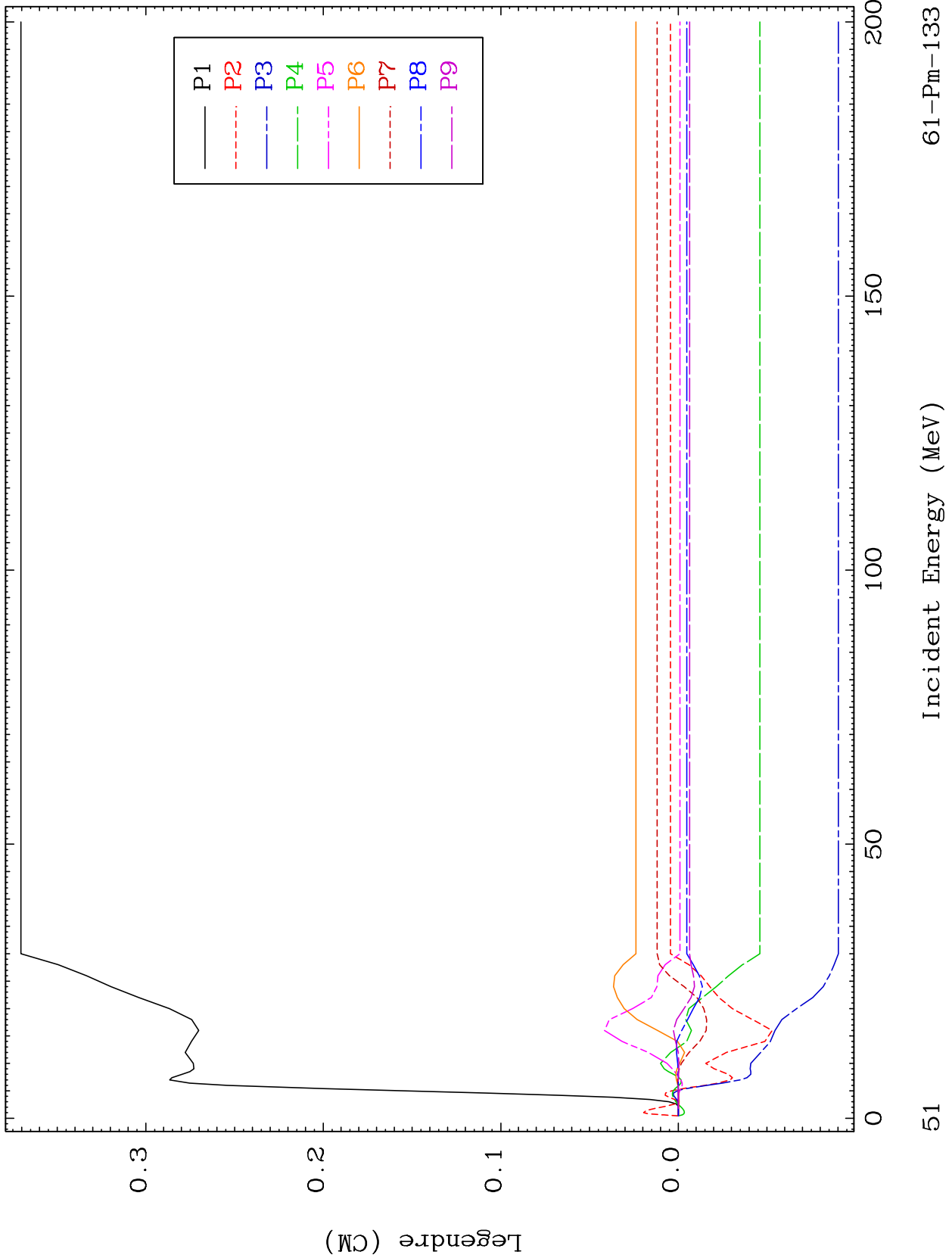


61-Pm-133

MAT 6107

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

61-Pm-133



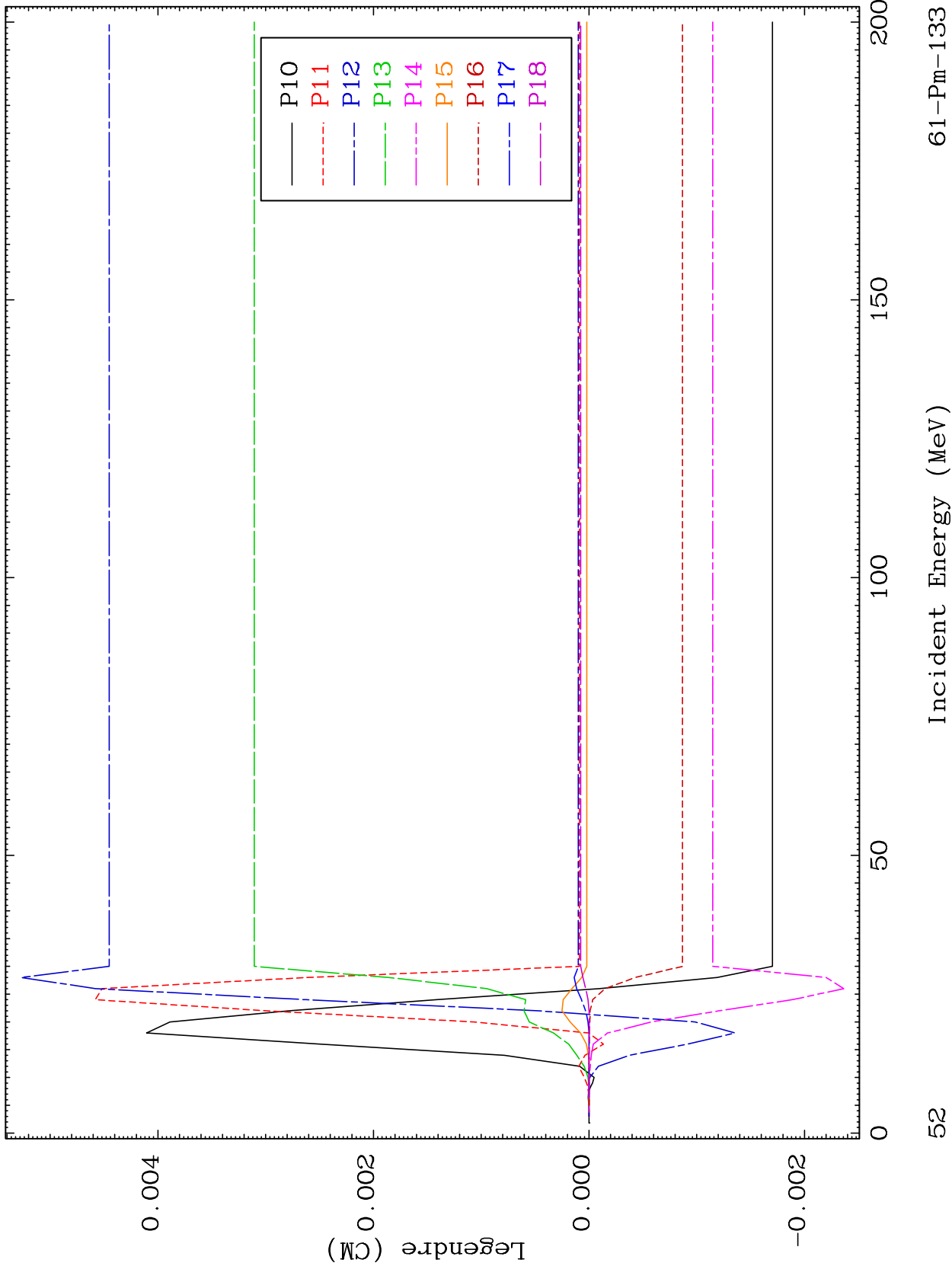
51

61-Pm-133

MAT 6107

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

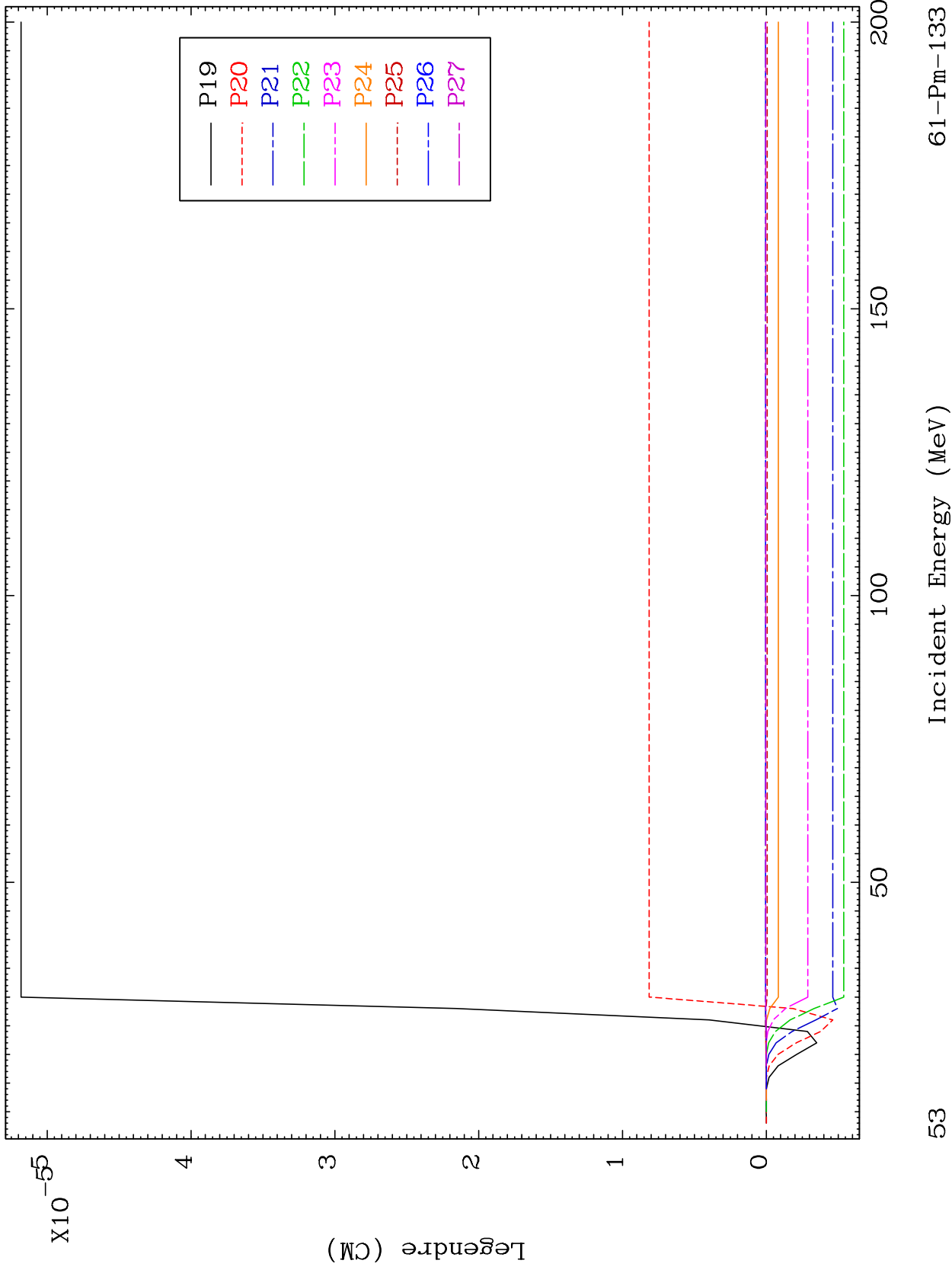
61-Pm-133



61-Pm-133

Incident Energy (MeV)

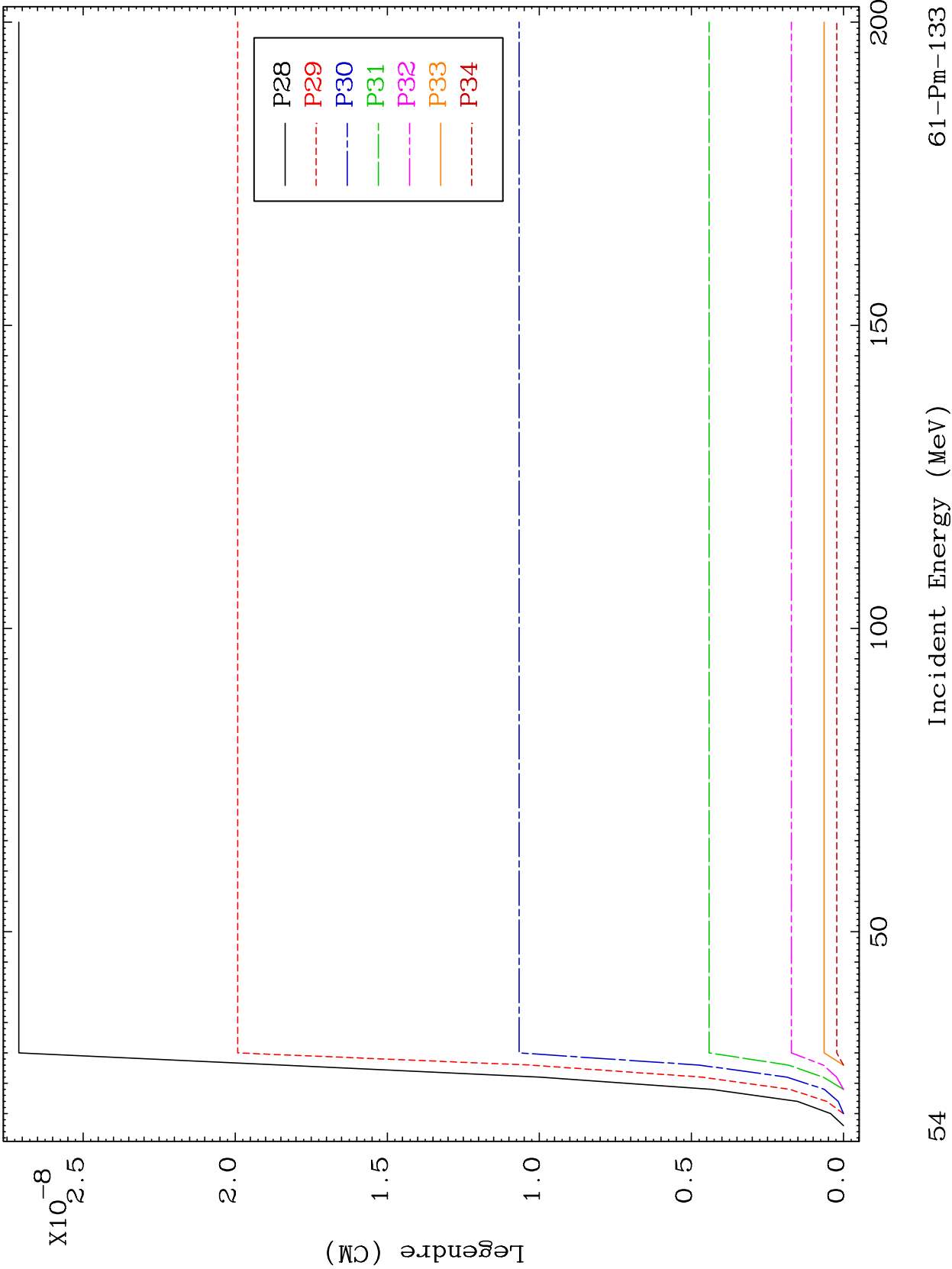
52



MAT 6107

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

61-Pm-133



54

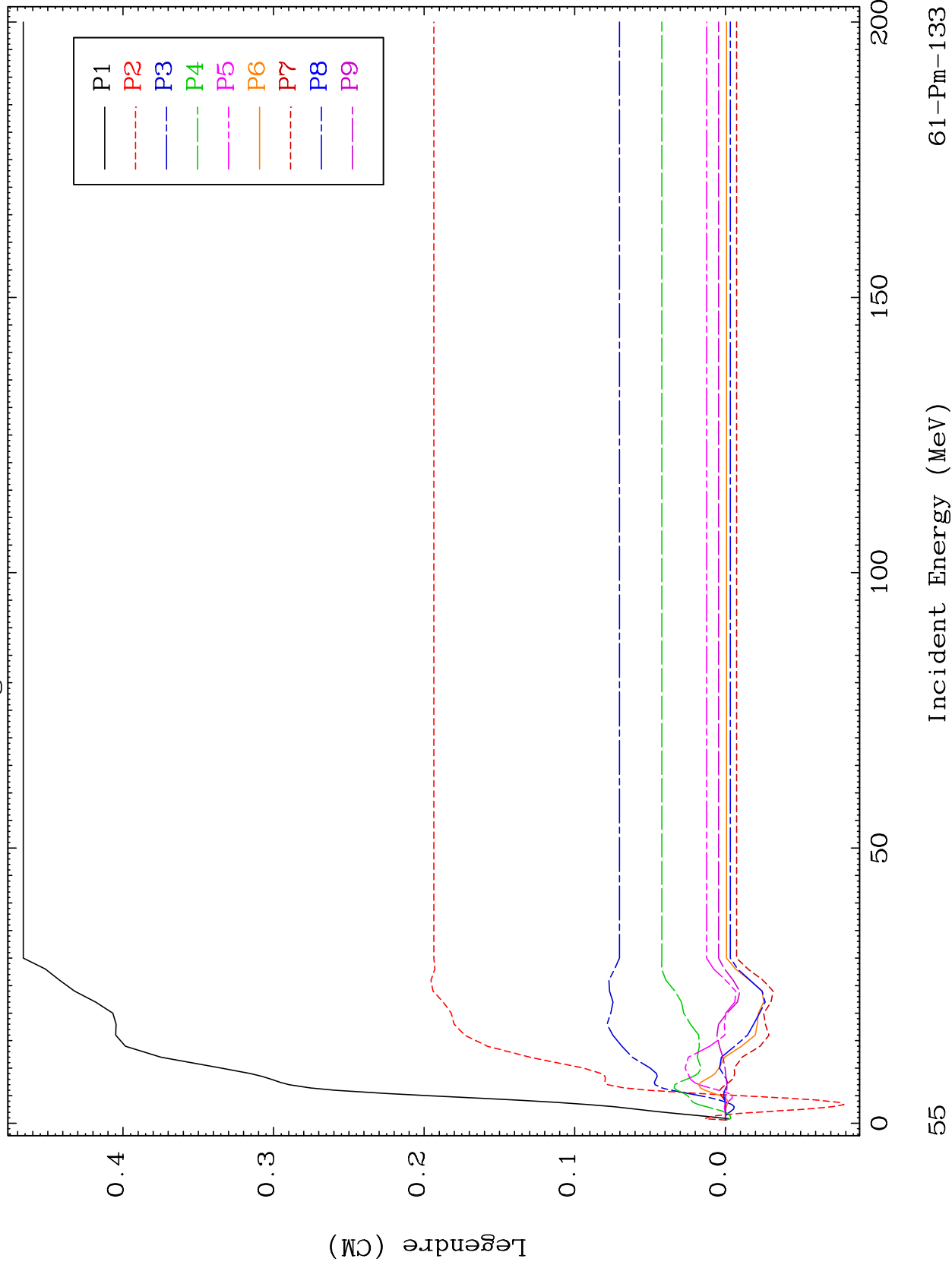
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



61-Pm-133

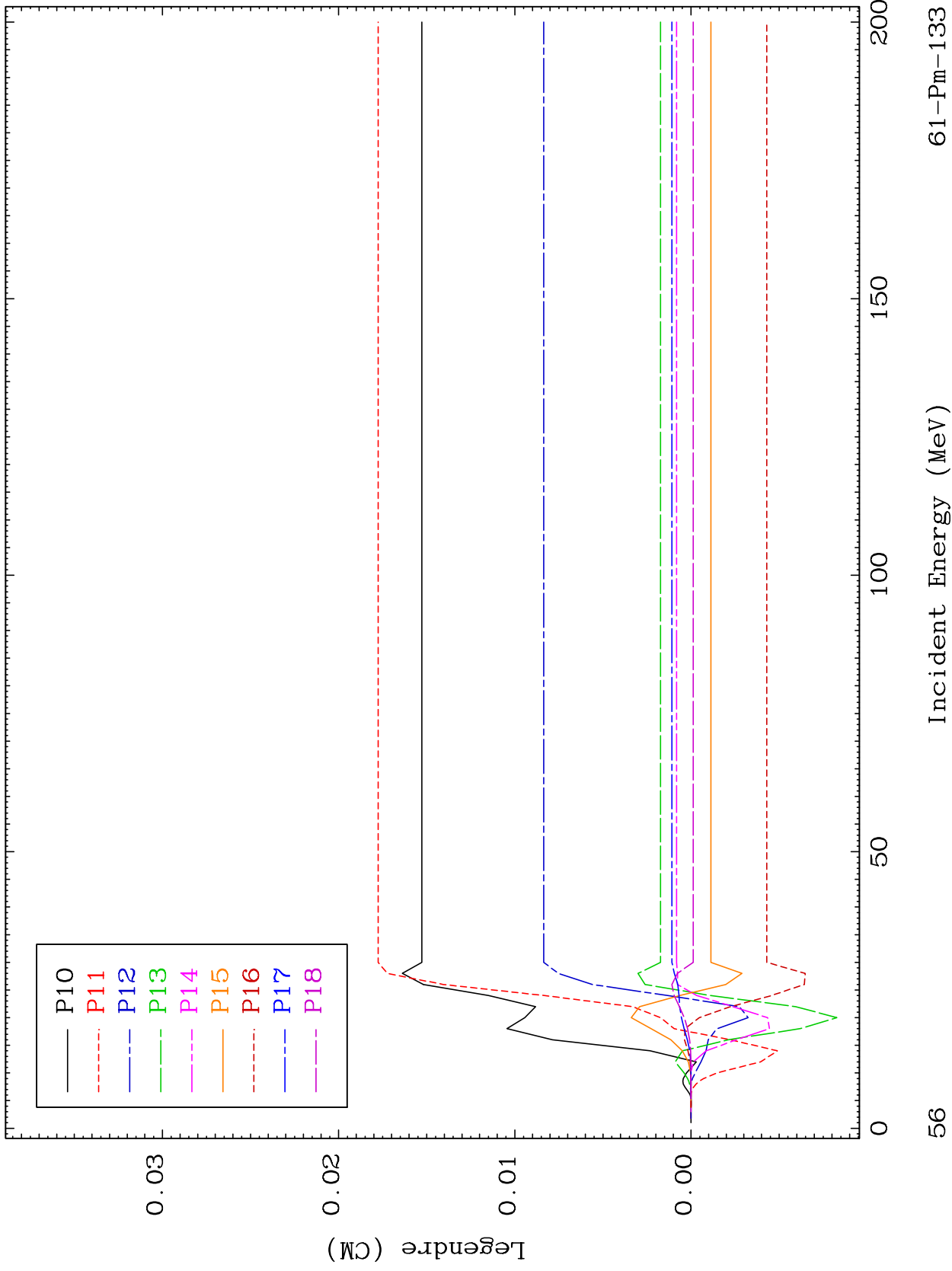
Incident Energy (MeV)

55

MAT 6107

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

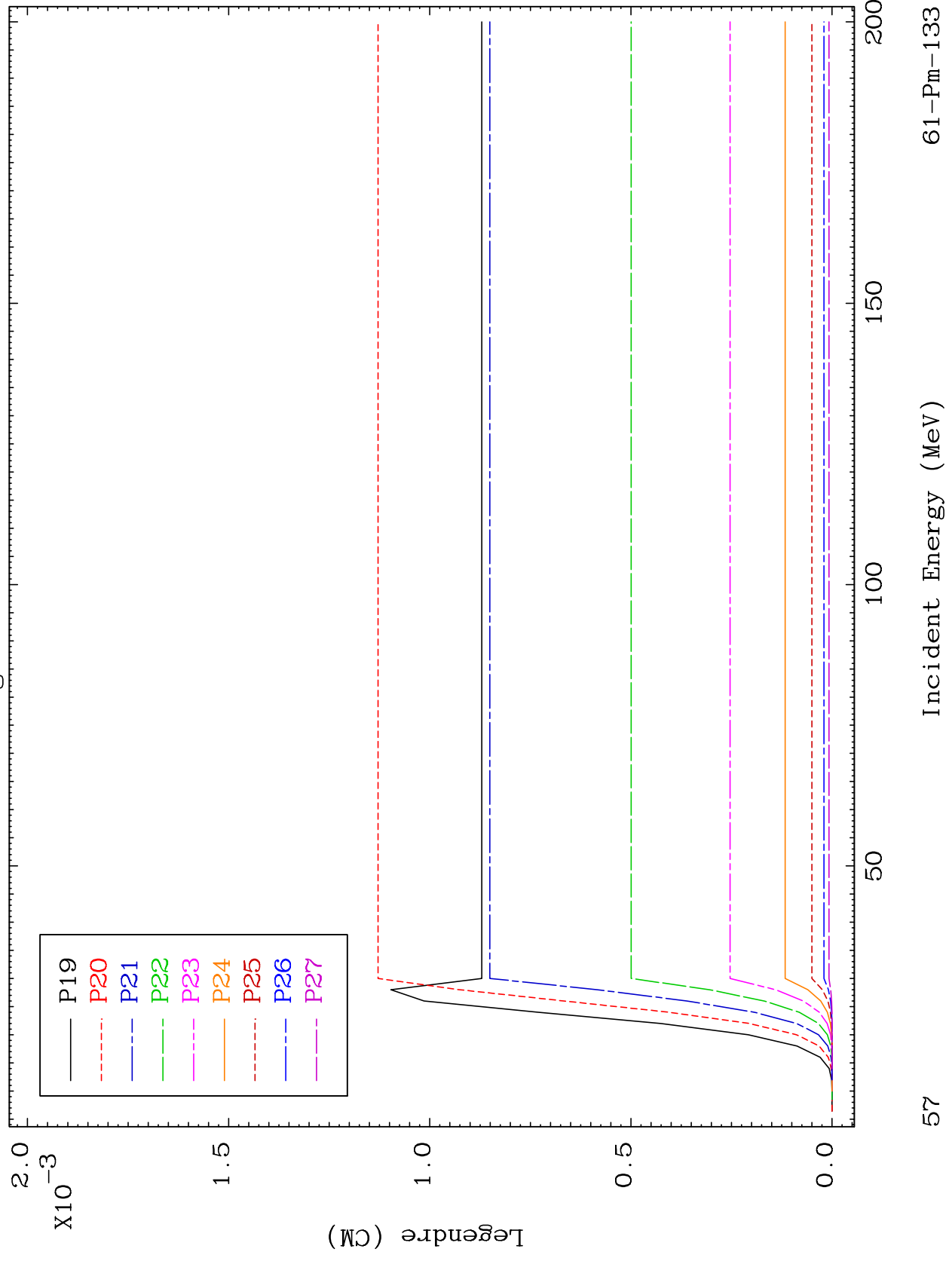
61-Pm-133



56

Incident Energy (MeV)

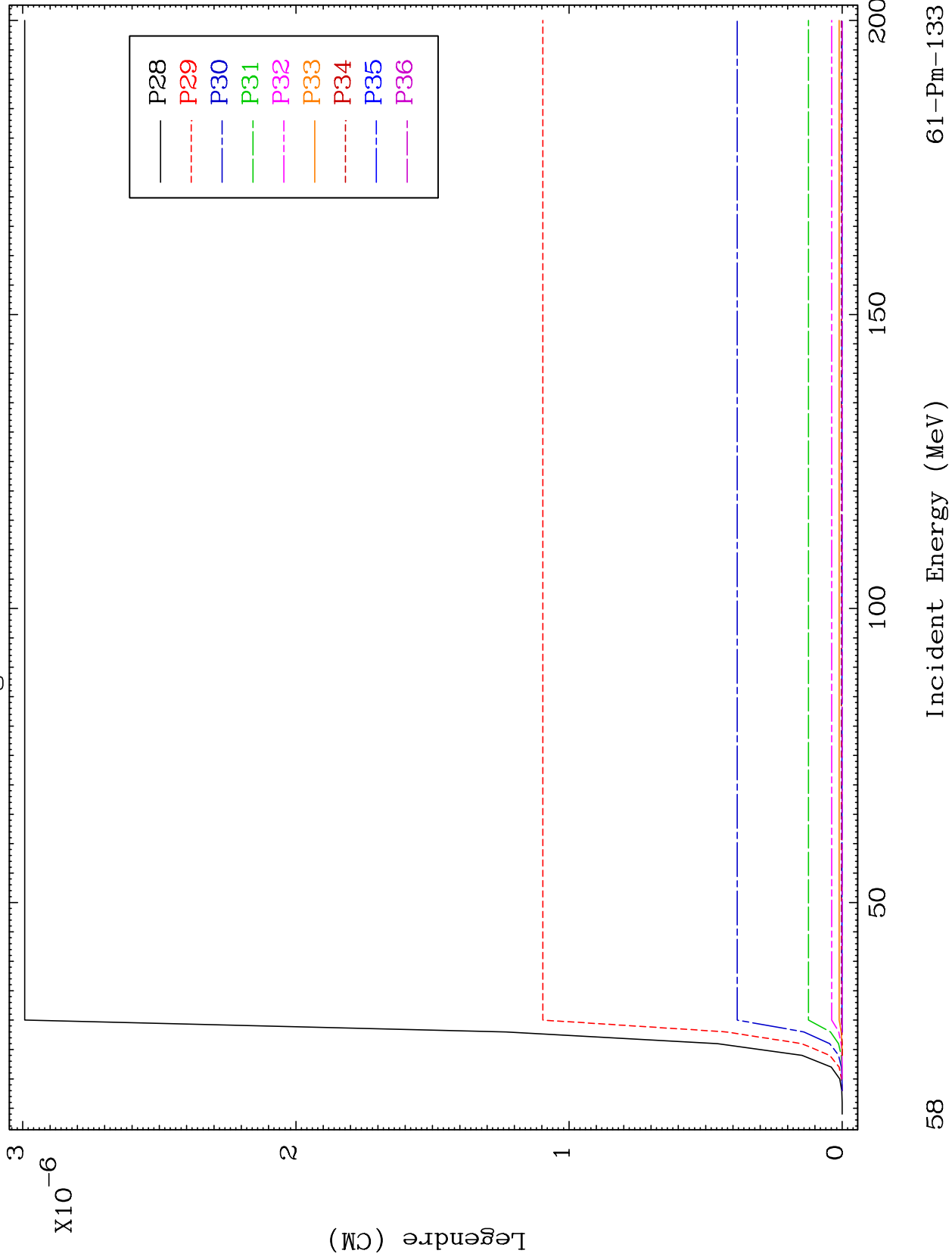
61-Pm-133



MAT 6107

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

61-Pm-133



58

Incident Energy (MeV)

61-Pm-133

200

150

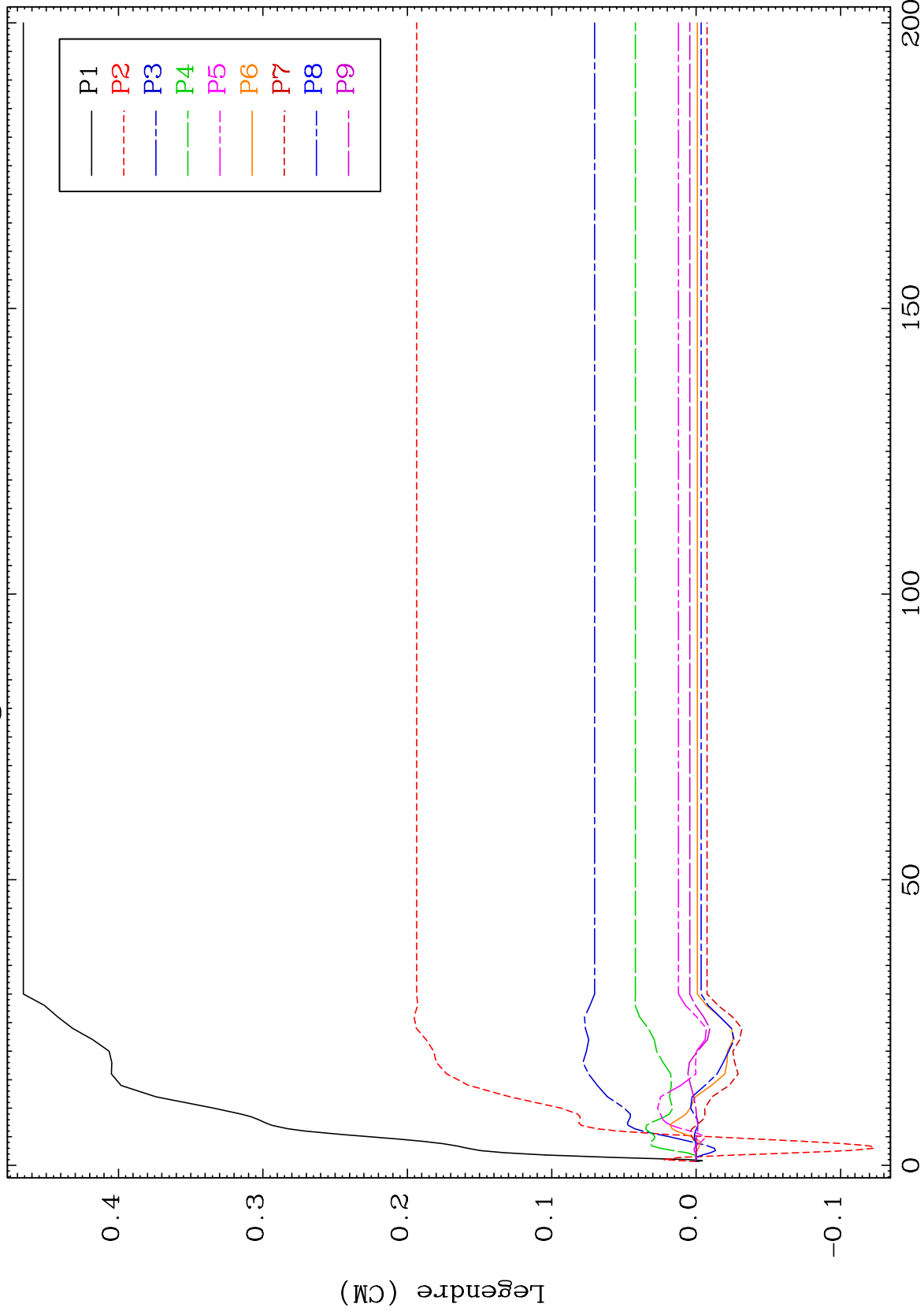
100

50

MAT 6107

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

61-Pm-133



59

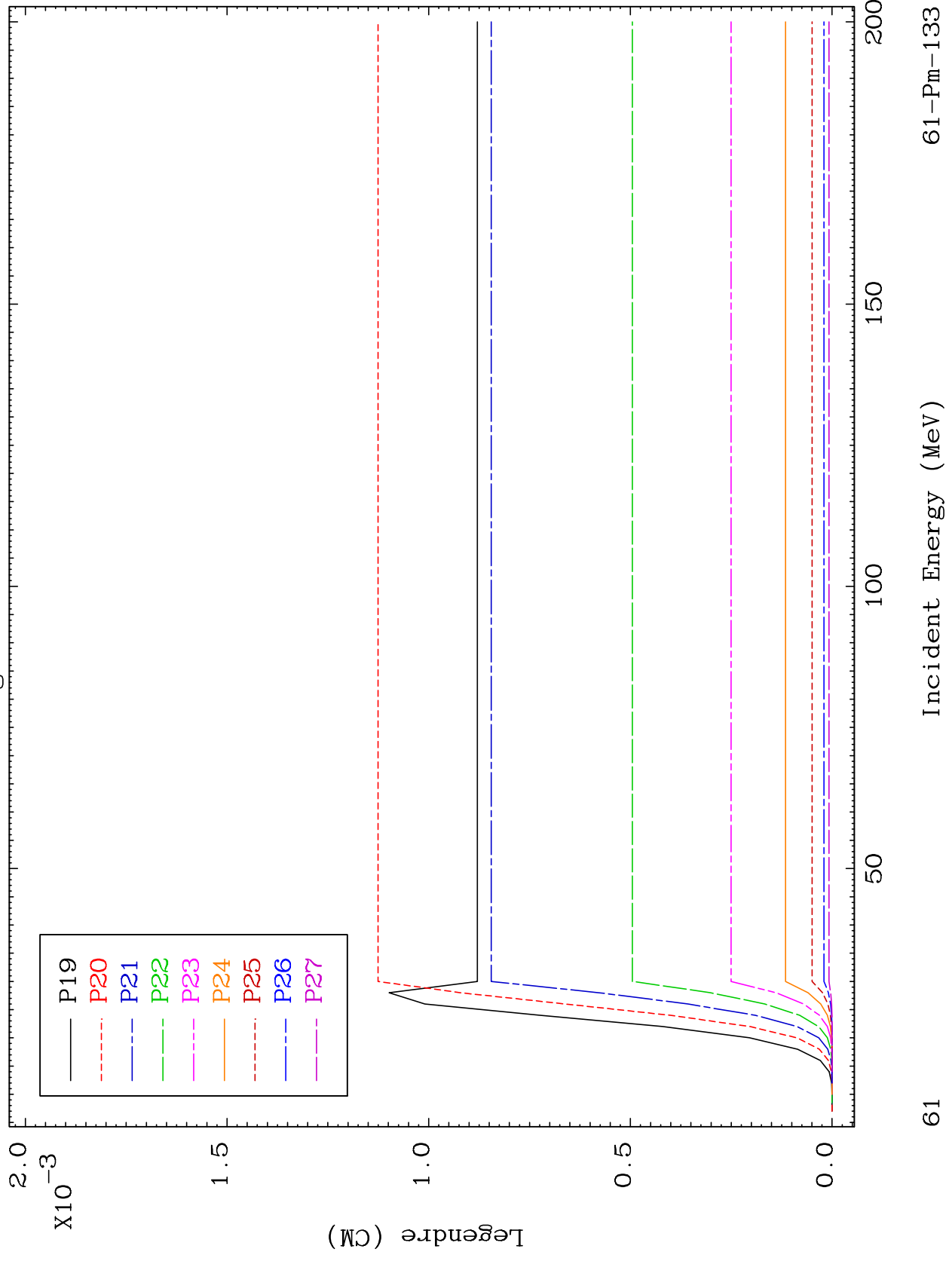
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



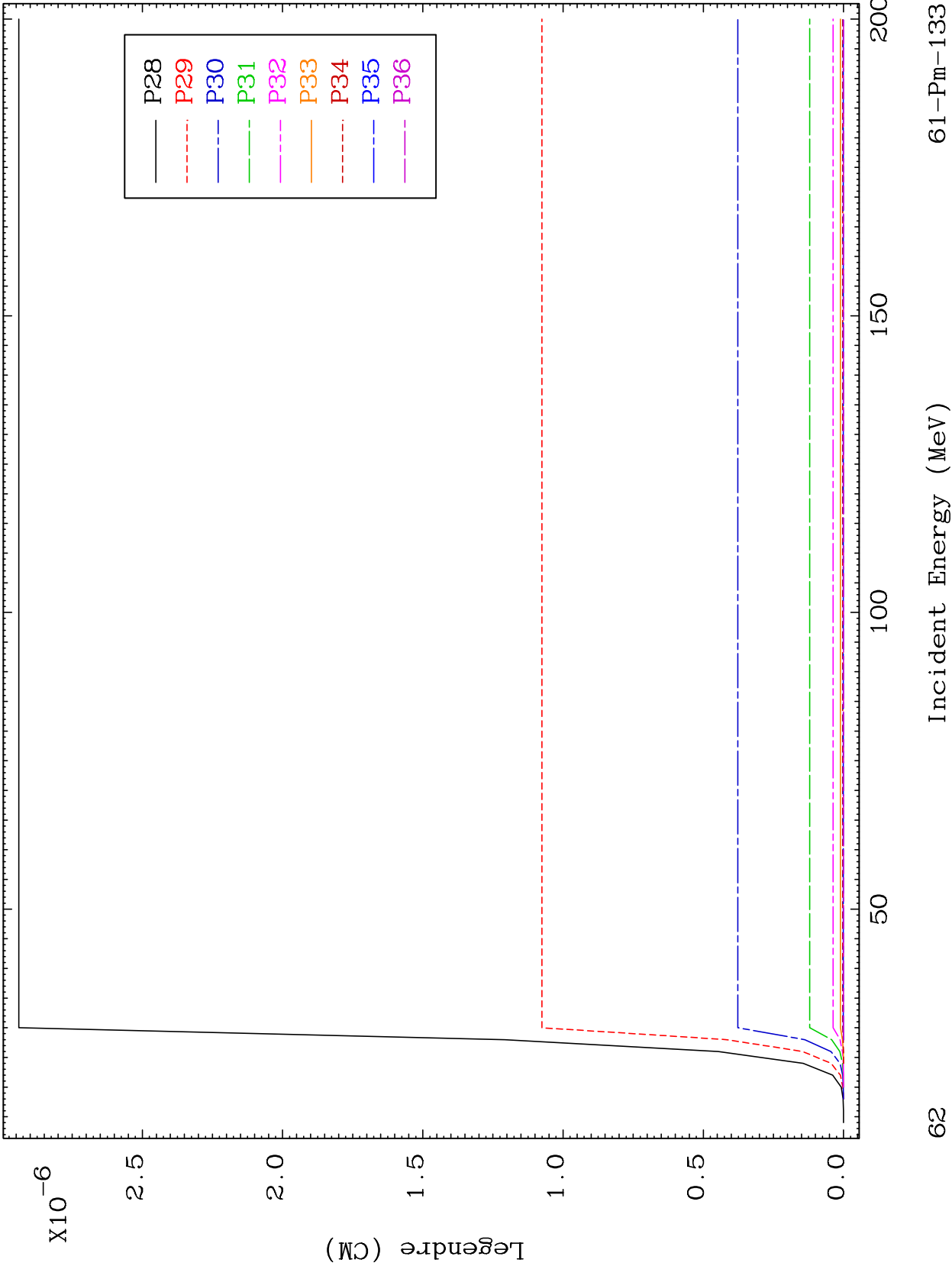
61

61-Pm-133

MAT 6107

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

61-Pm-133



62

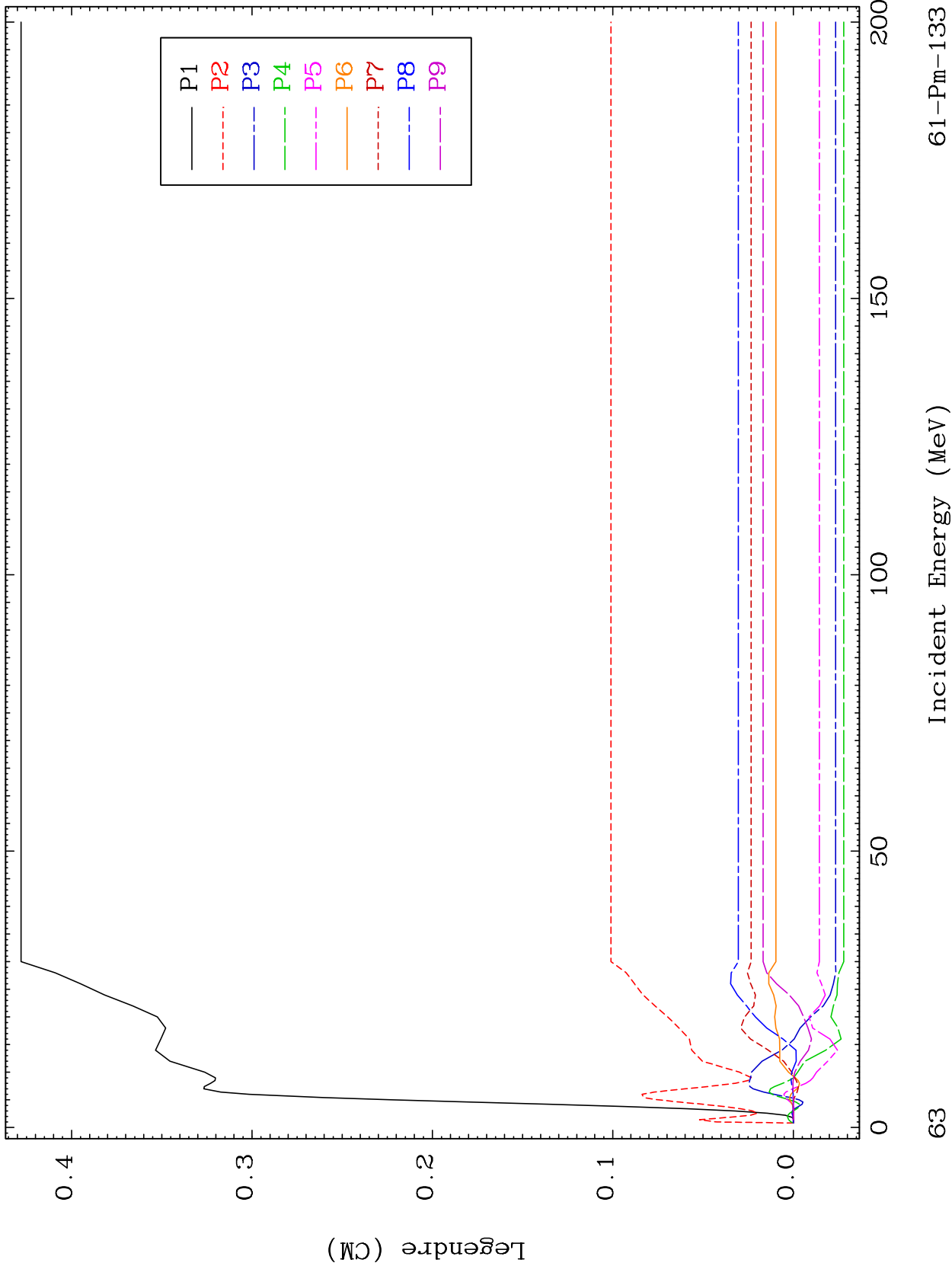
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



61-Pm-133

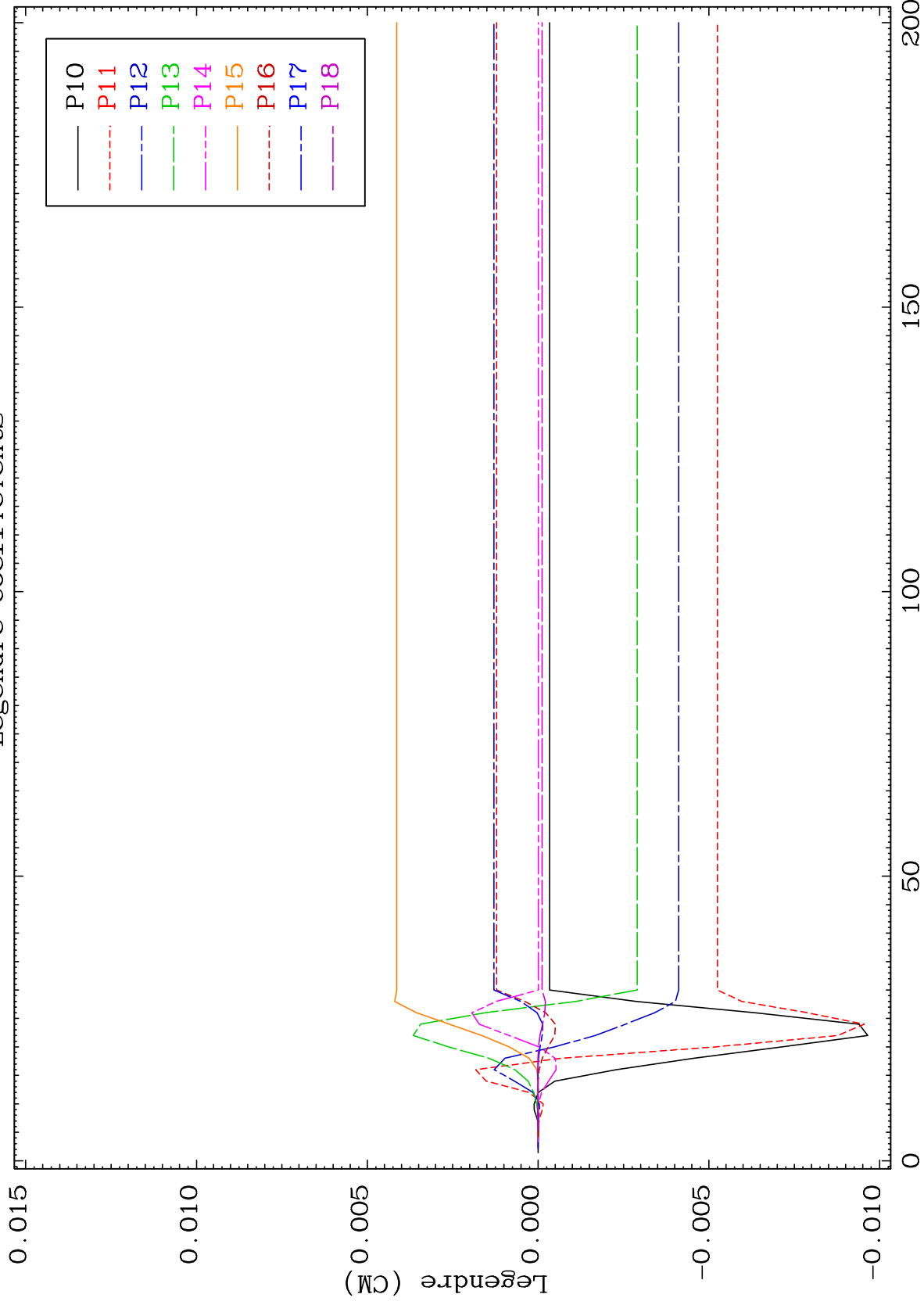
Incident Energy (MeV)

63

MAT 6107

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

61-Pm-133



64

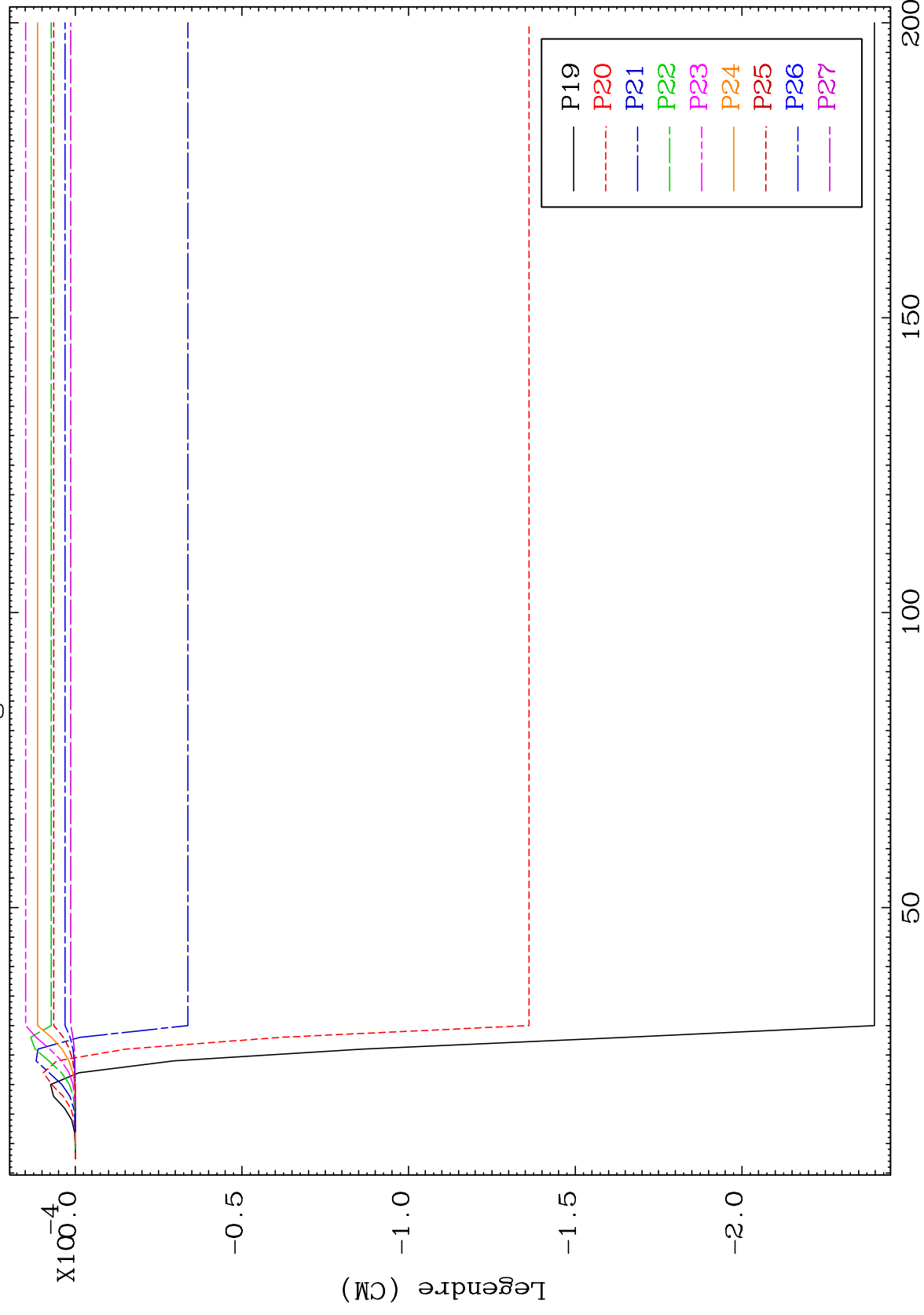
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



65

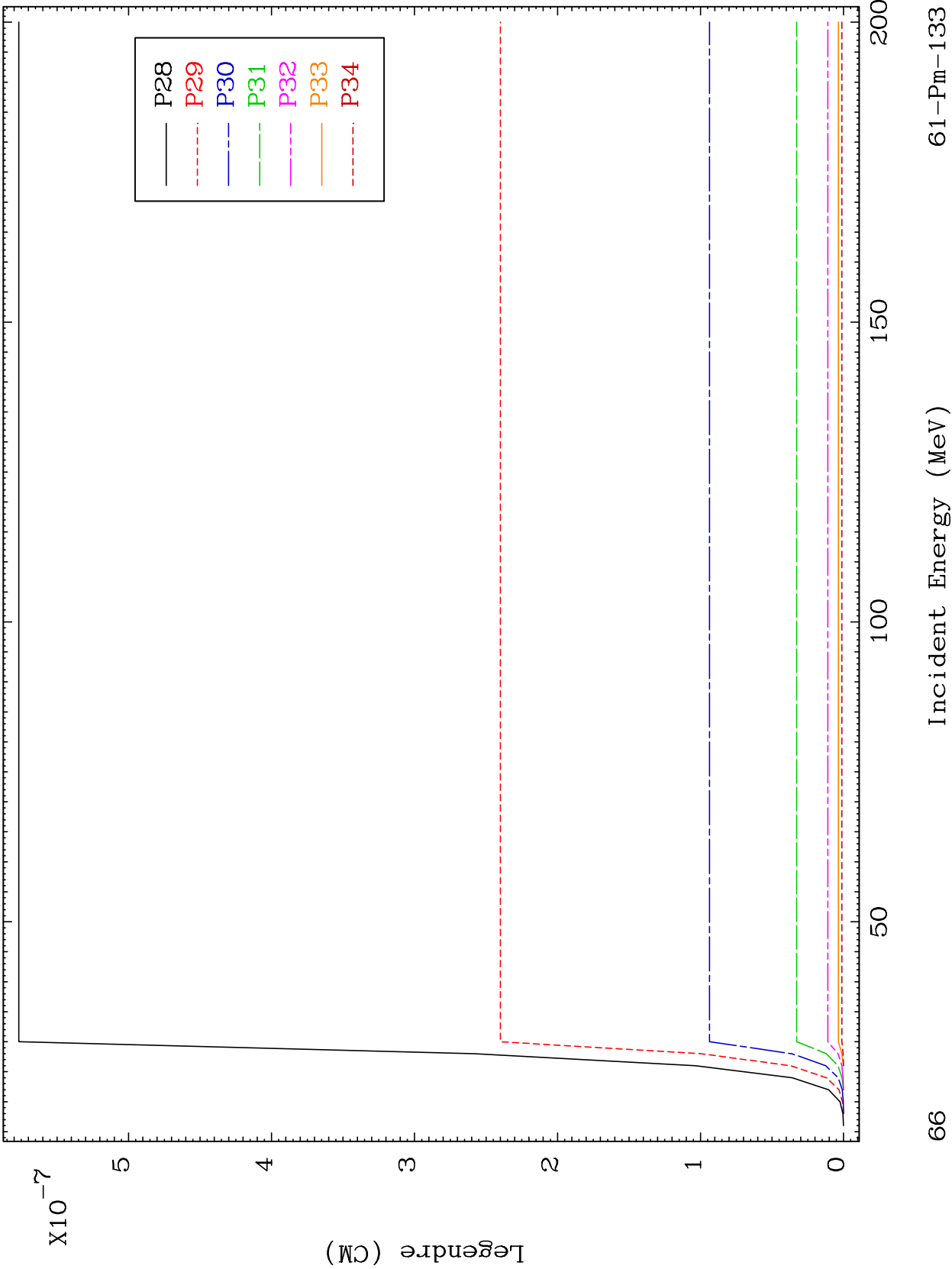
61-Pm-133

61-Pm-133

MAT 6107

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

61-Pm-133



66

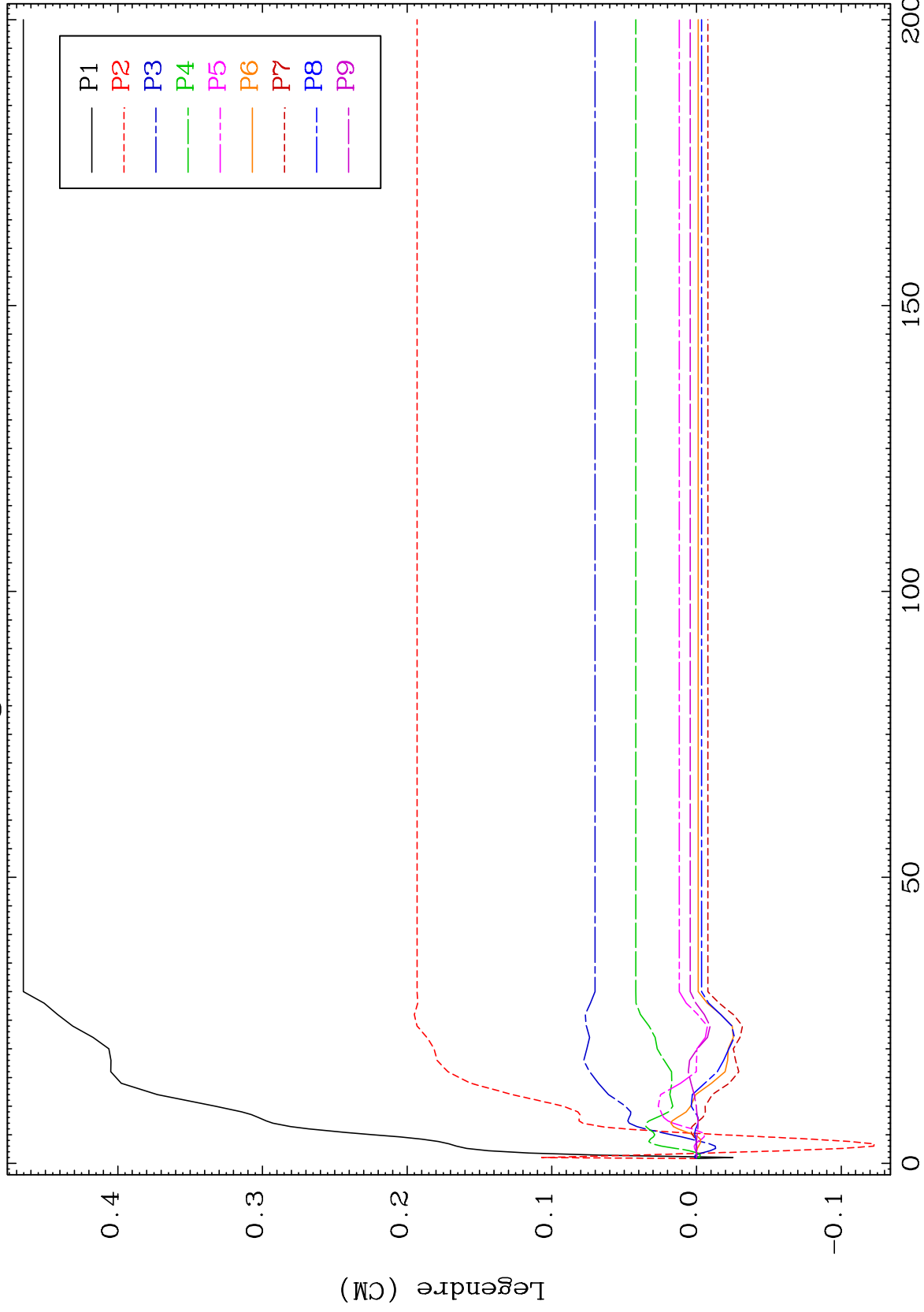
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



61-Pm-133

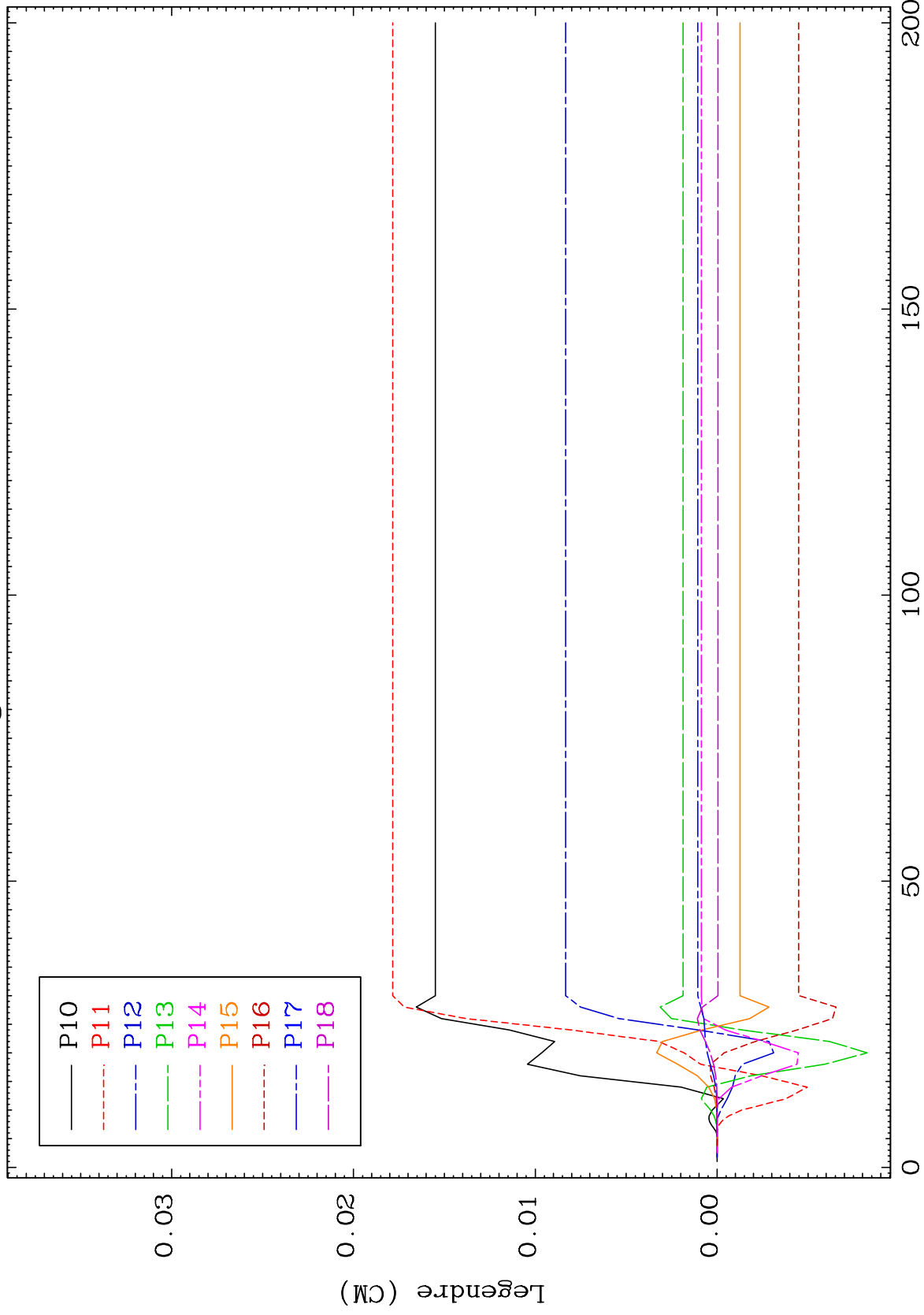
Incident Energy (MeV)

67

MAT 6107

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

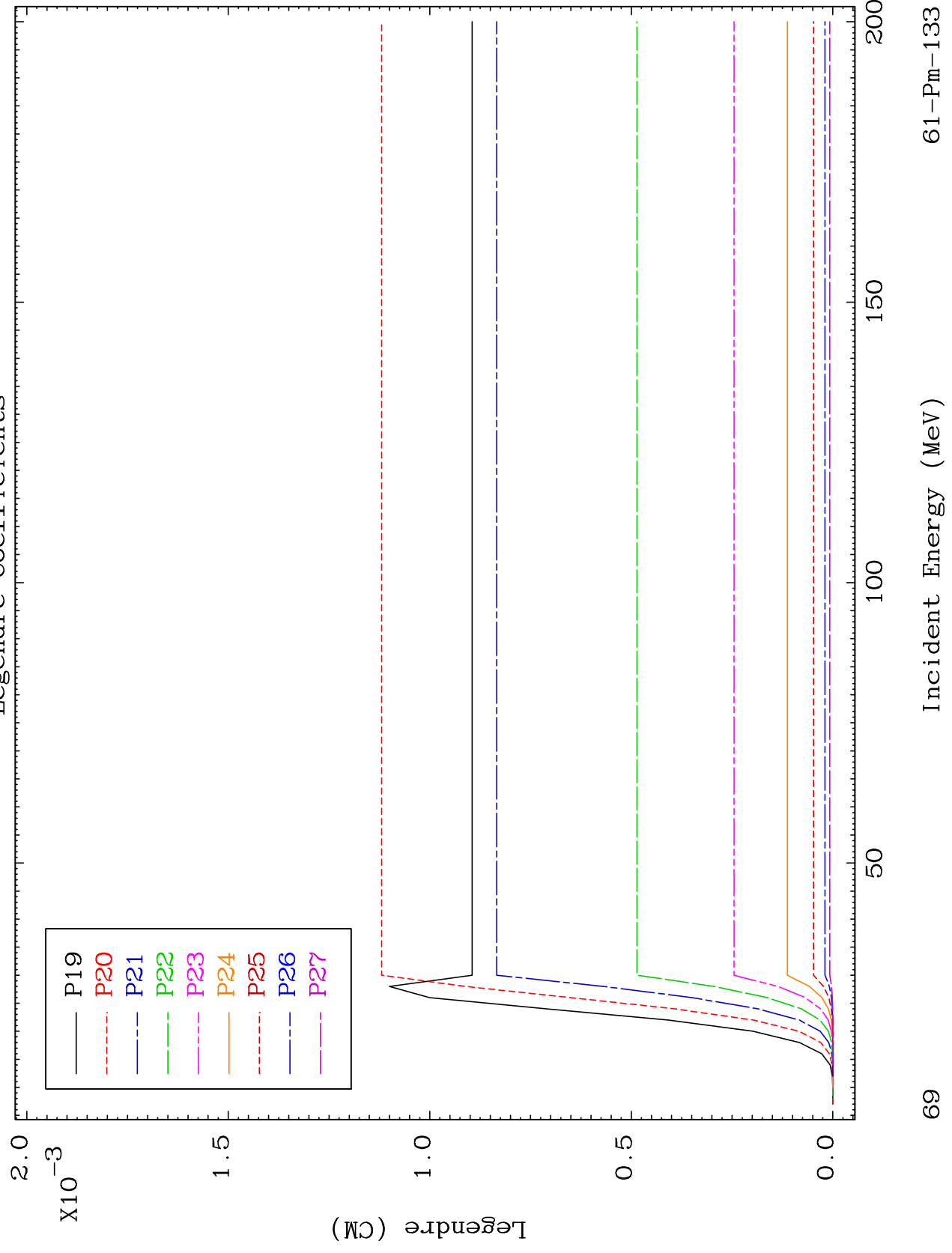
61-Pm-133



68

Incident Energy (MeV)

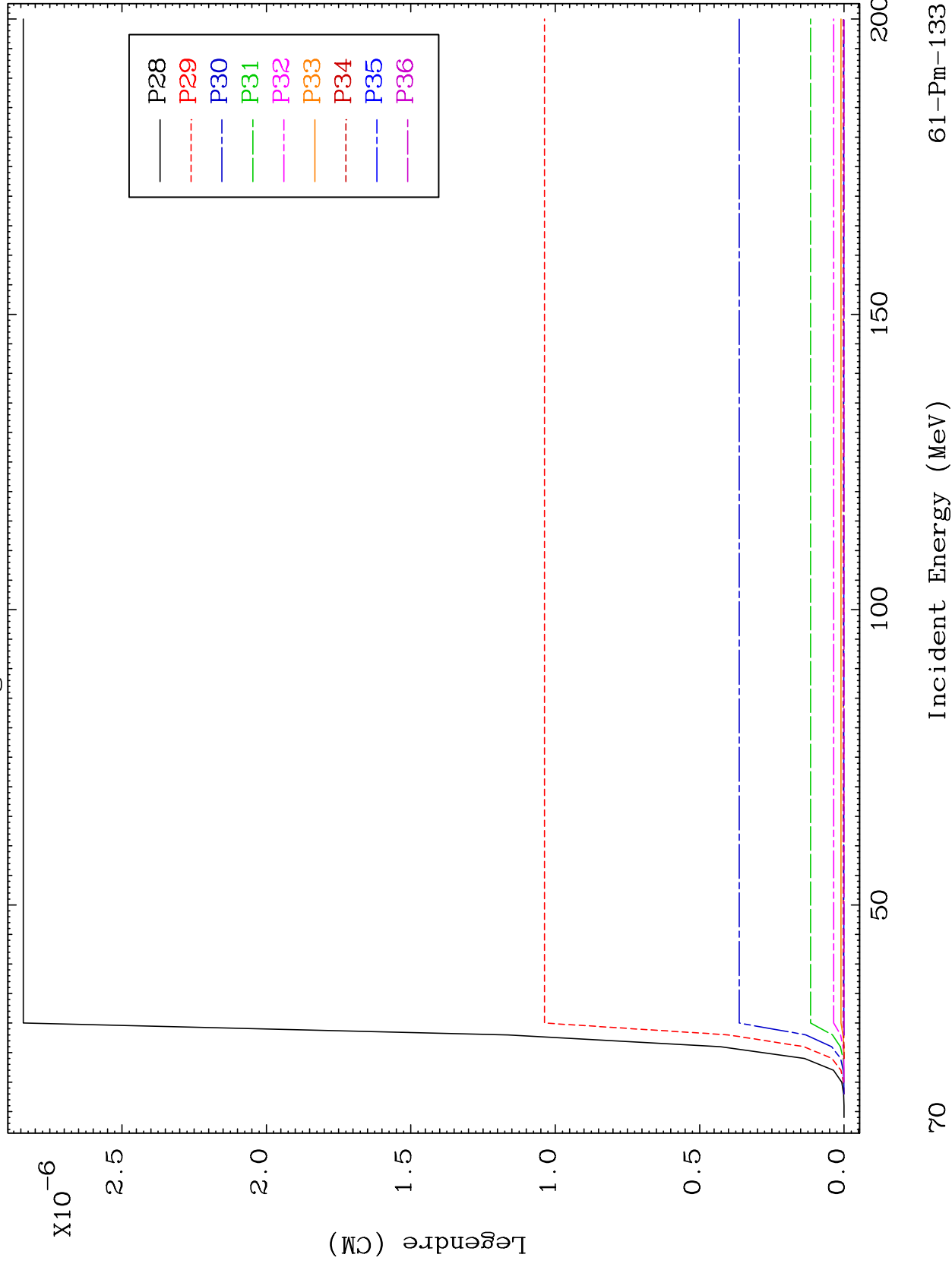
61-Pm-133



MAT 6107

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

61-Pm-133



70

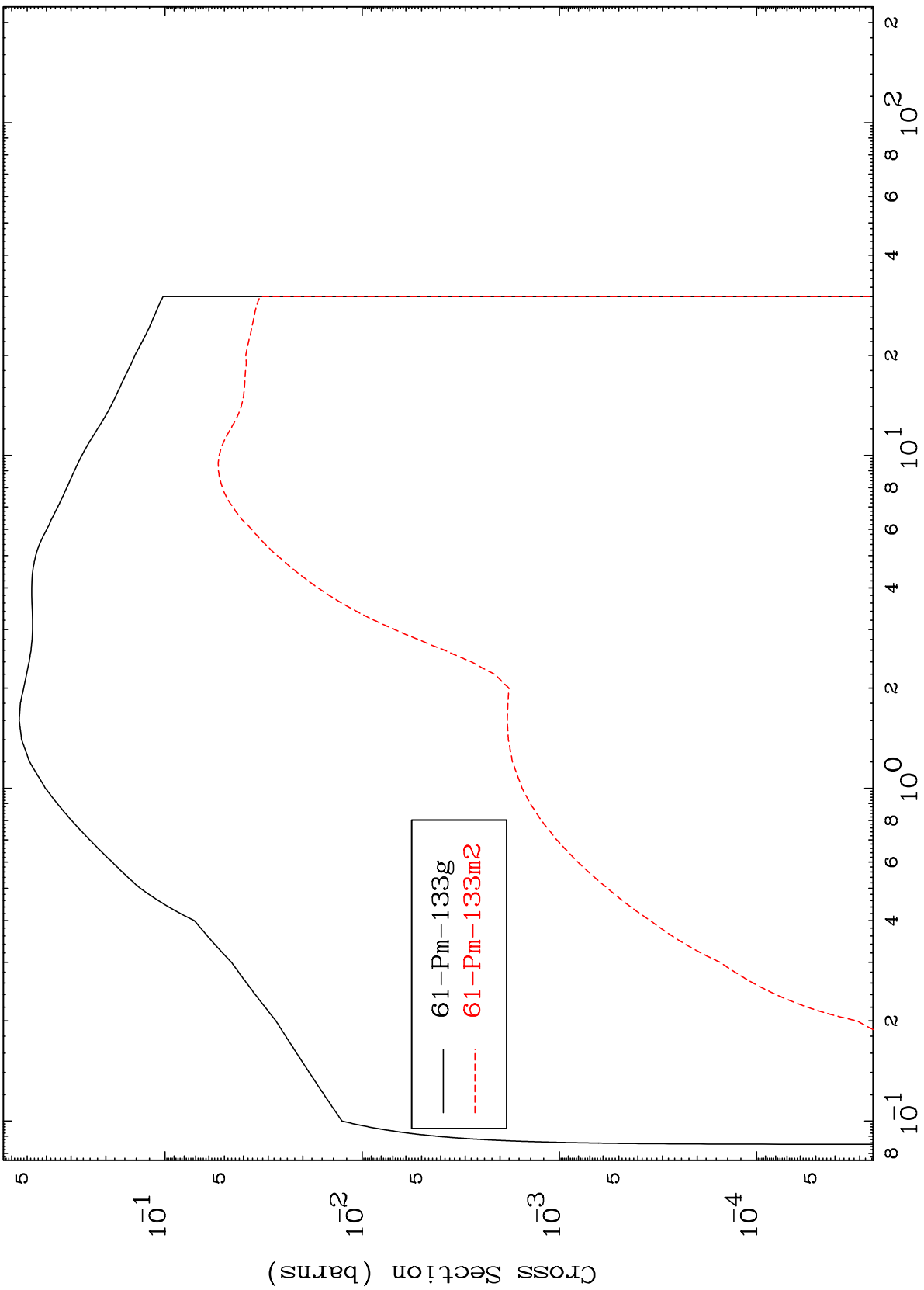
Incident Energy (MeV)

61-Pm-133

MAT 6107

61-Pm-133

Inelastic Radionuclide Production Cross Section



71

Incident Energy (MeV)

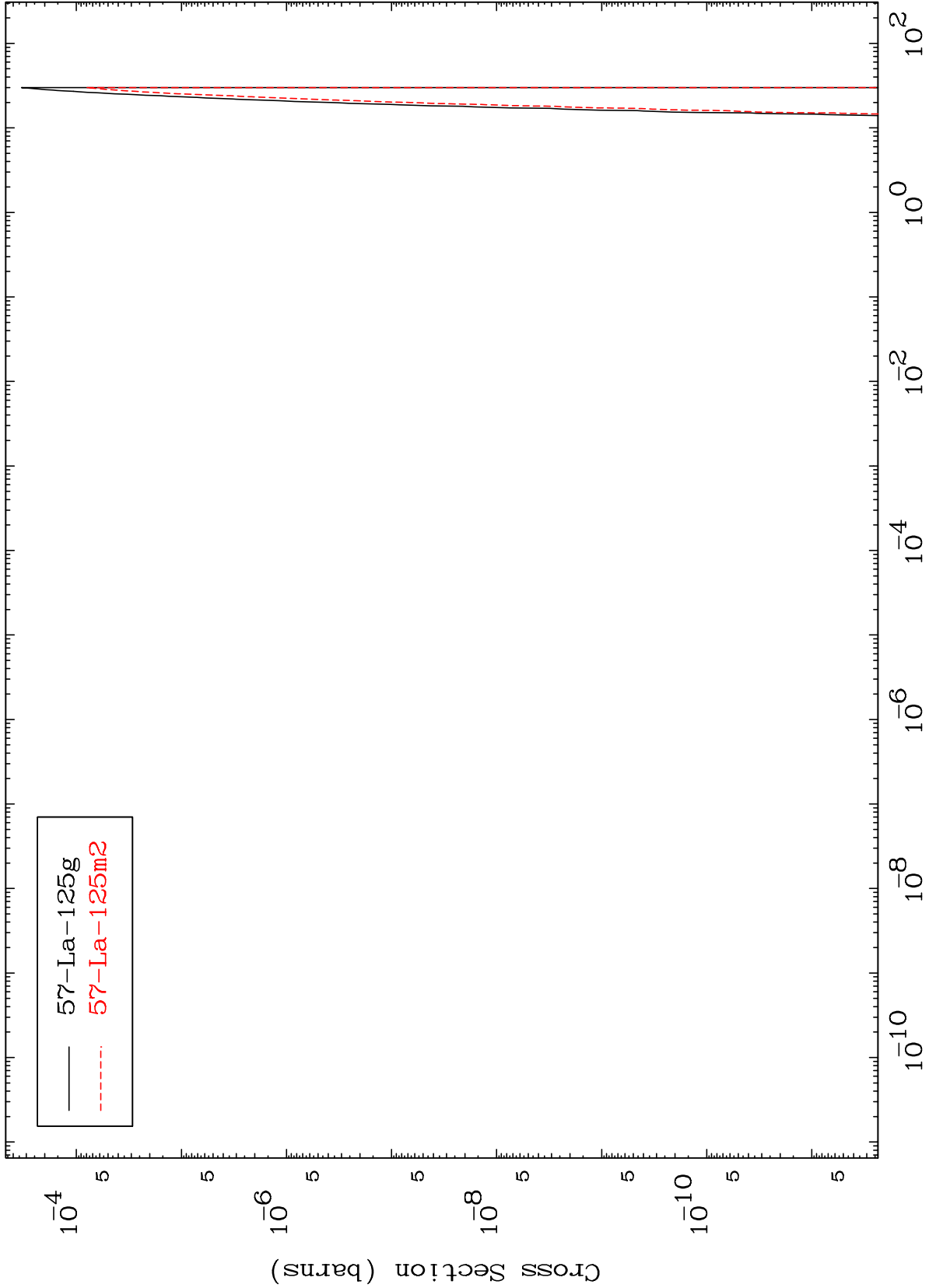
61-Pm-133

MAT 6107

(n,n') 2α

61-Pm-133

Radionuclide Production Cross Section



72

Incident Energy (MeV)

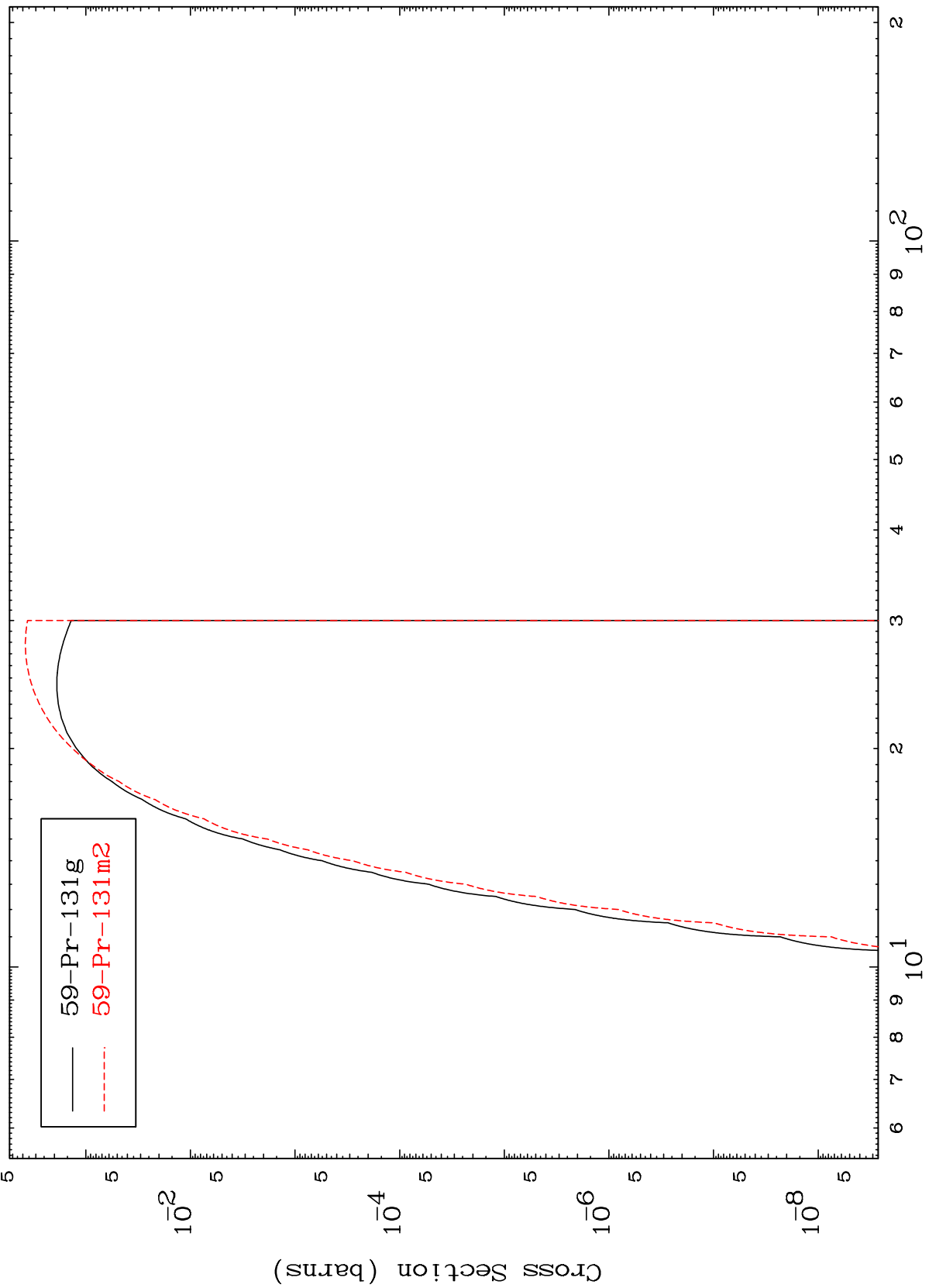
61-Pm-133

MAT 6107

(n,2n) p

61-Pm-133

Radionuclide Production Cross Section



73

Incident Energy (MeV)

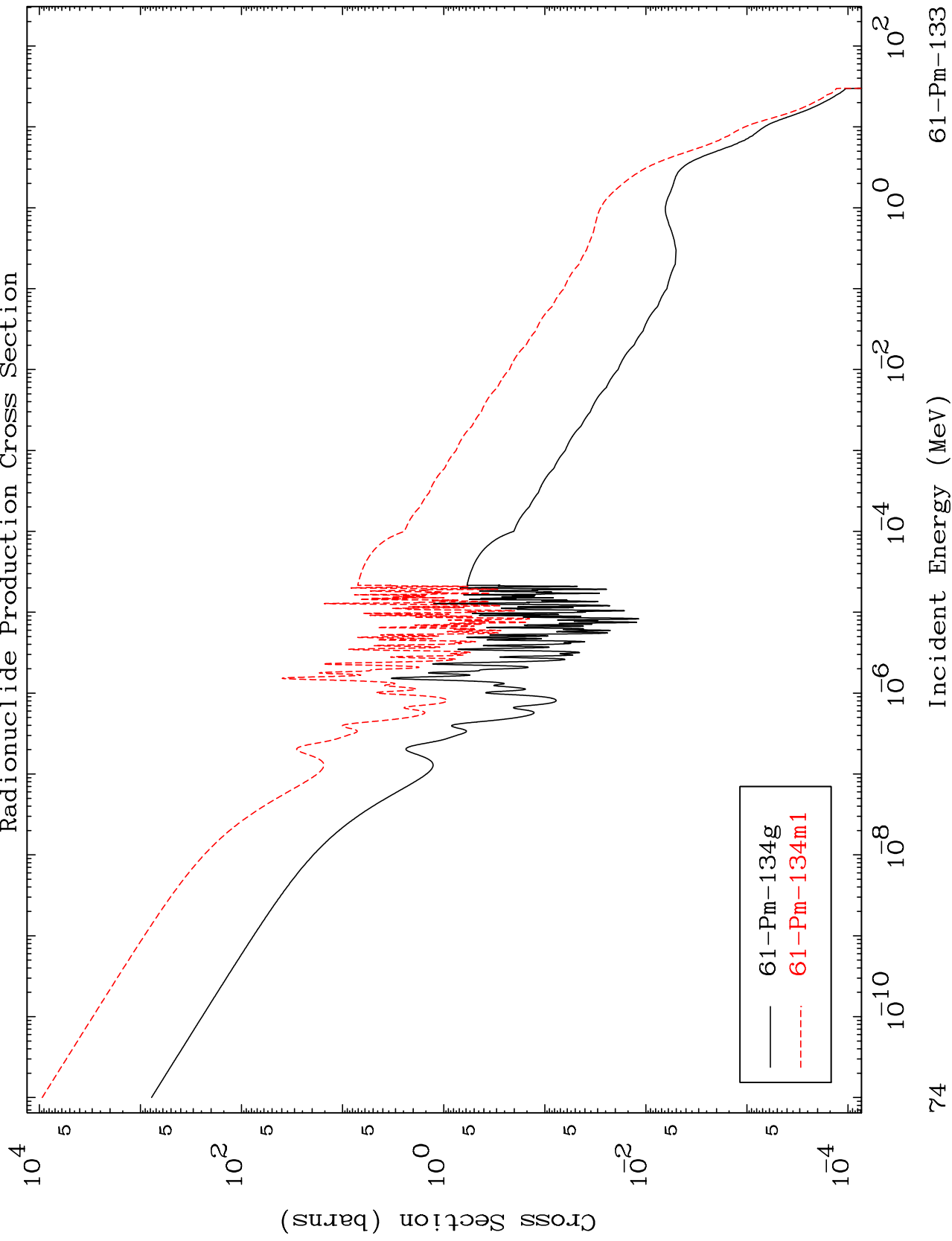
61-Pm-133

MAT 6107

61-Pm-133

Radionuclide Production Cross Section

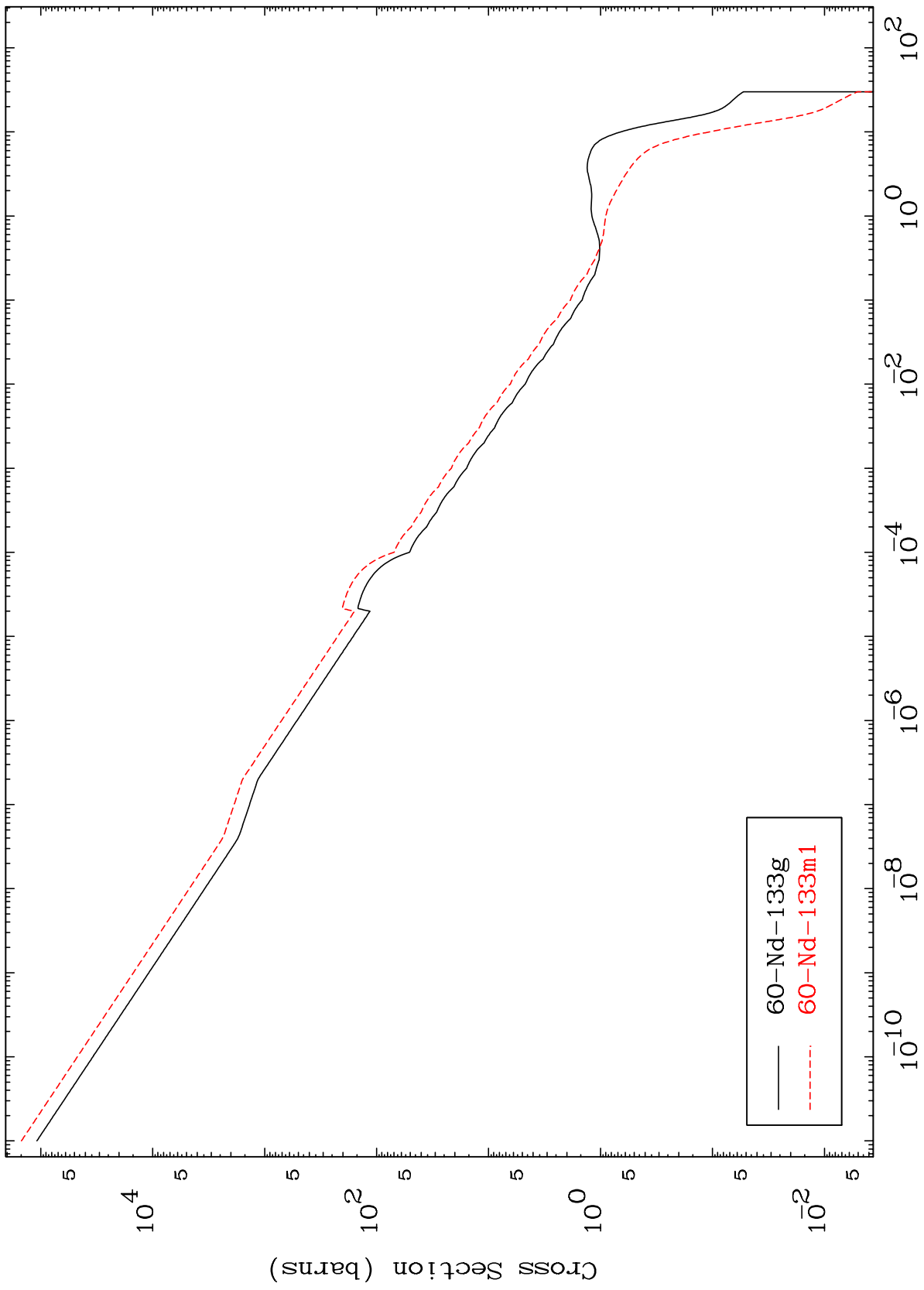
(n, γ)



MAT 6107

61-Pm-133

(n,p)
Radionuclide Production Cross Section



Incident Energy (MeV)

61-Pm-133

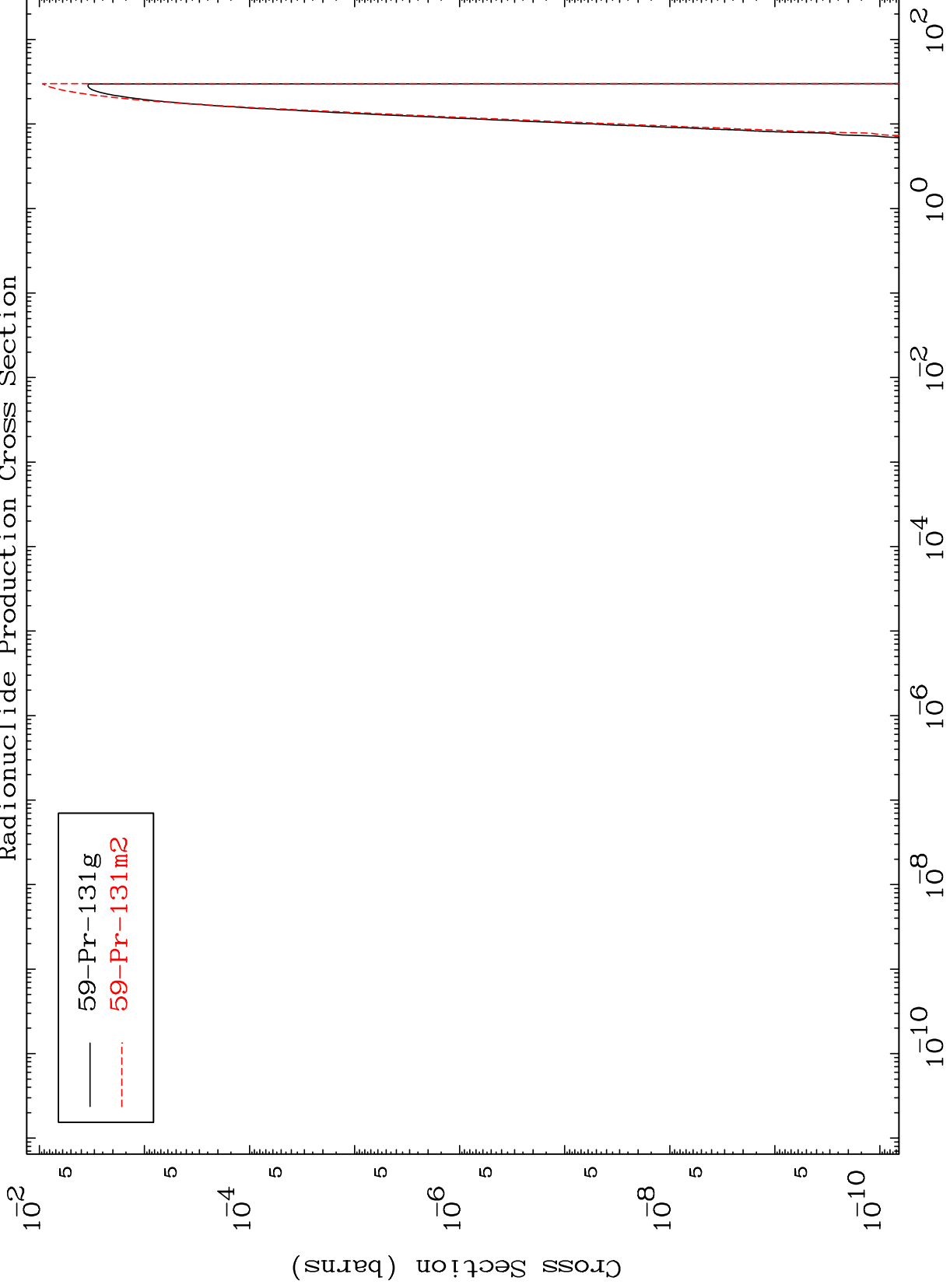
75

MAT 6107

(n,He-3)

61-Pm-133

Radionuclide Production Cross Section



76

Incident Energy (MeV)

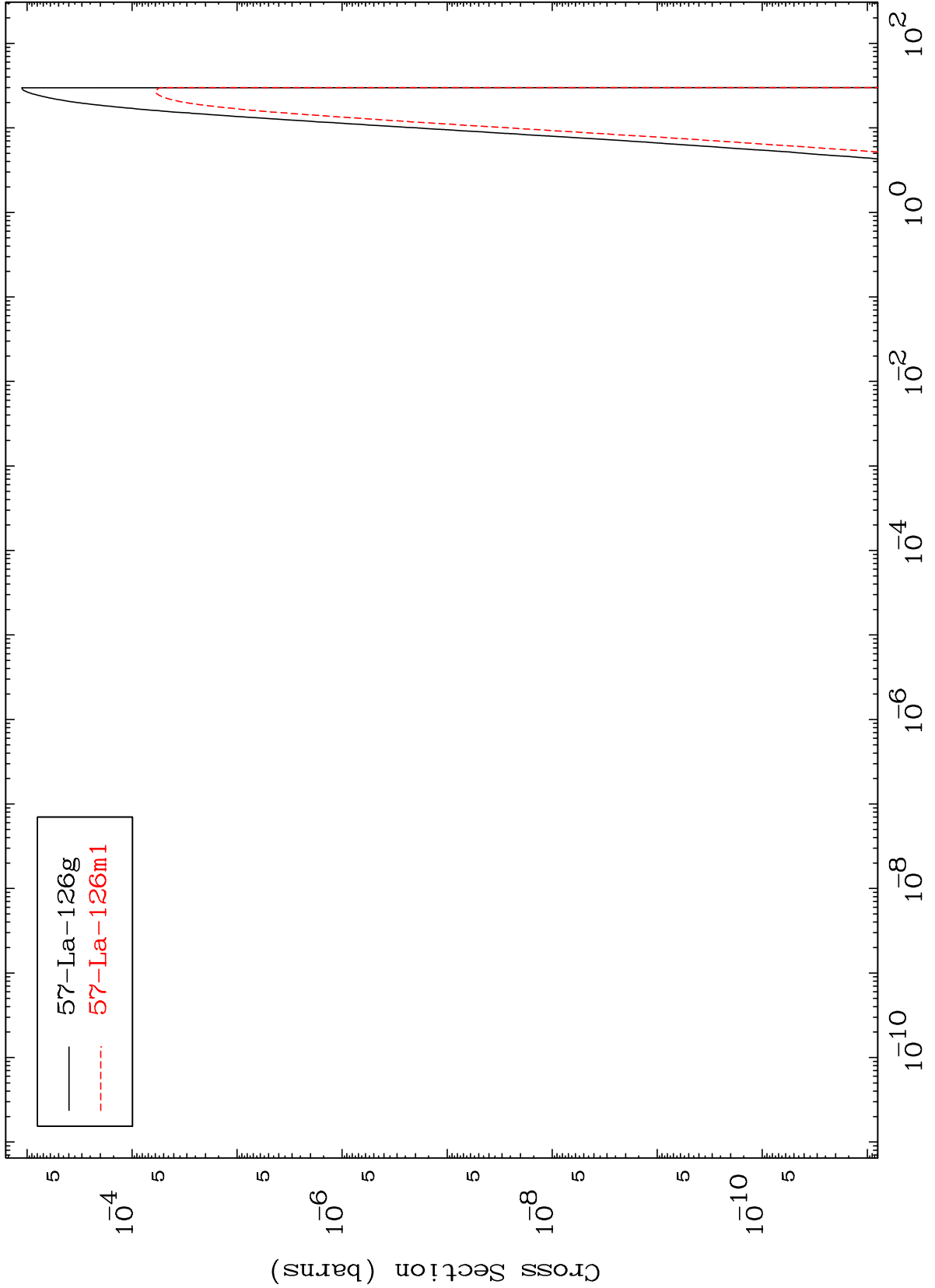
61-Pm-133

MAT 6107

(n,2α)

61-Pm-133

Radionuclide Production Cross Section

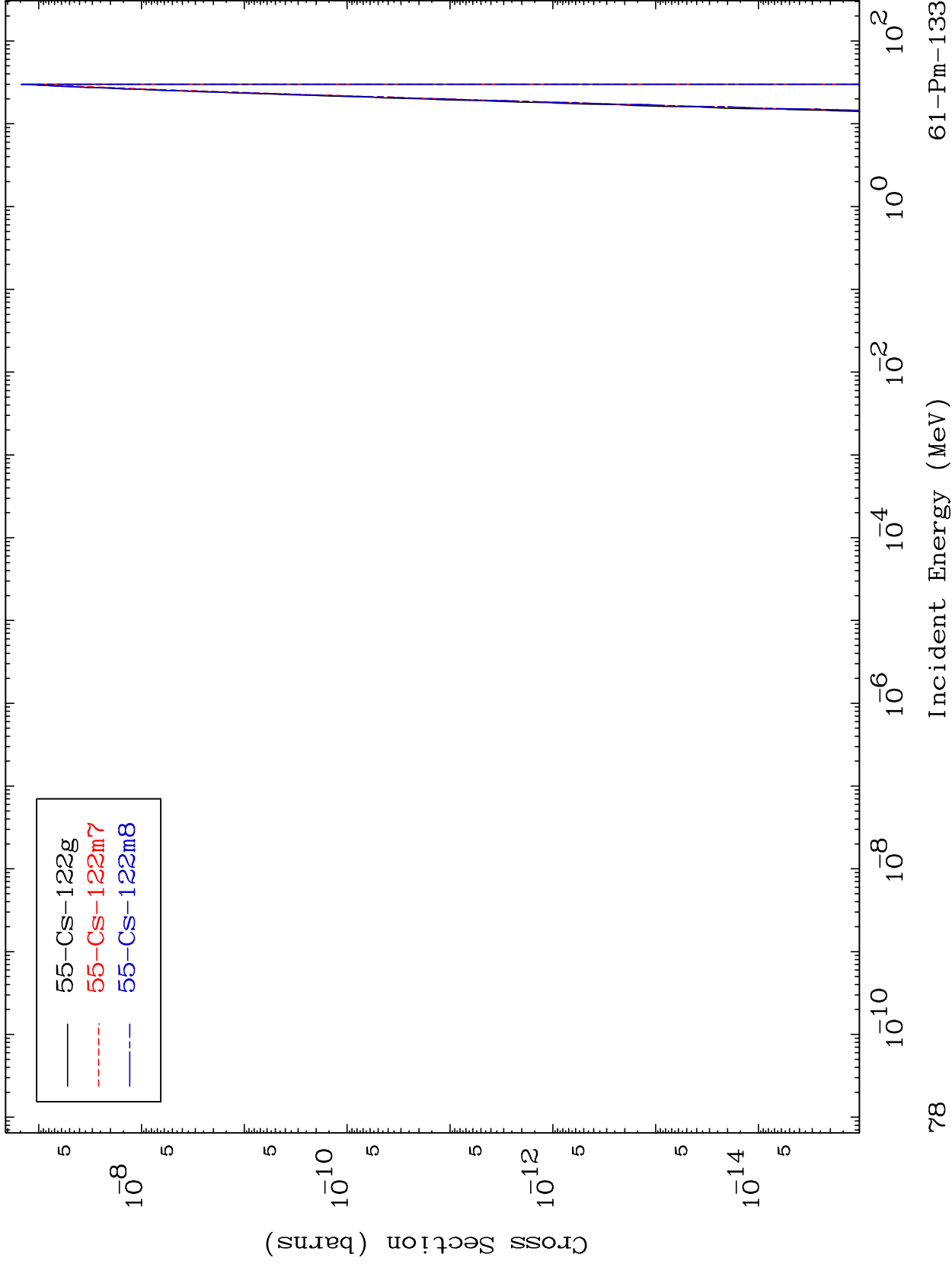


MAT 6107

(n,3α)

61-Pm-133

Radionuclide Production Cross Section



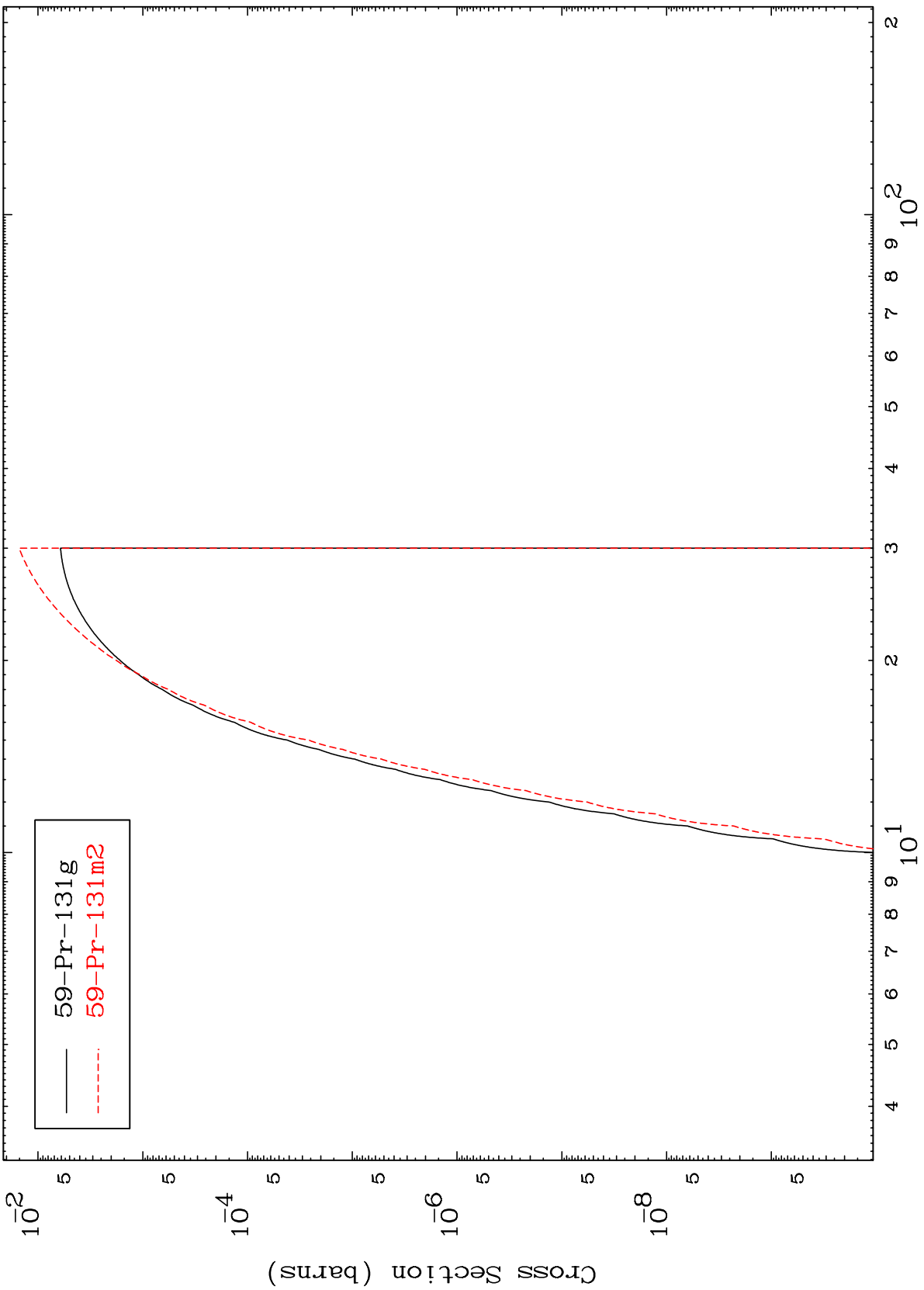
78

MAT 6107

(n,p) d

61-Pm-133

Radionuclide Production Cross Section



79

Incident Energy (MeV)

61-Pm-133