

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

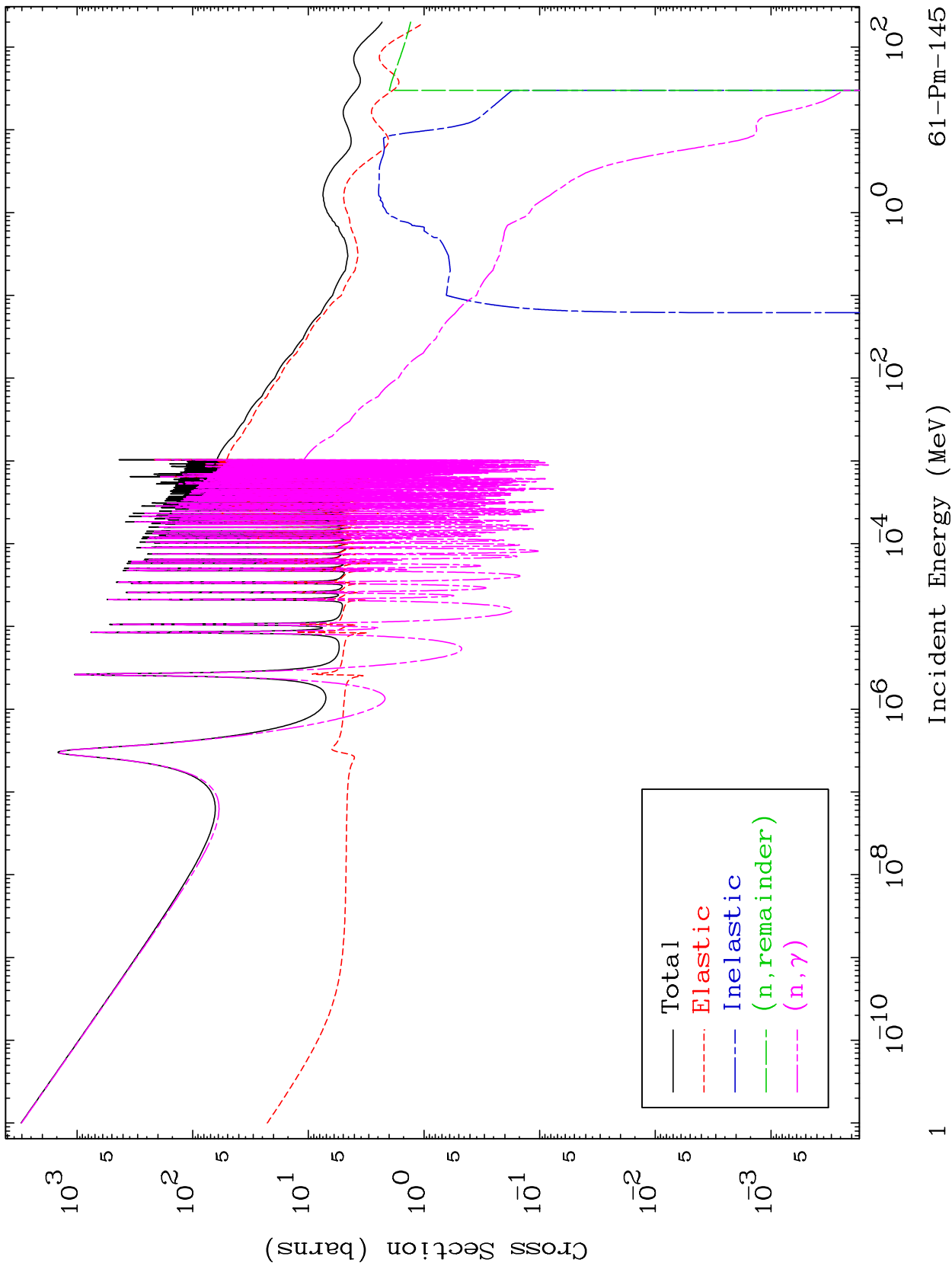
Press Mouse Button to Start

MAT 6143

Major

293 Kelvin Cross Sections

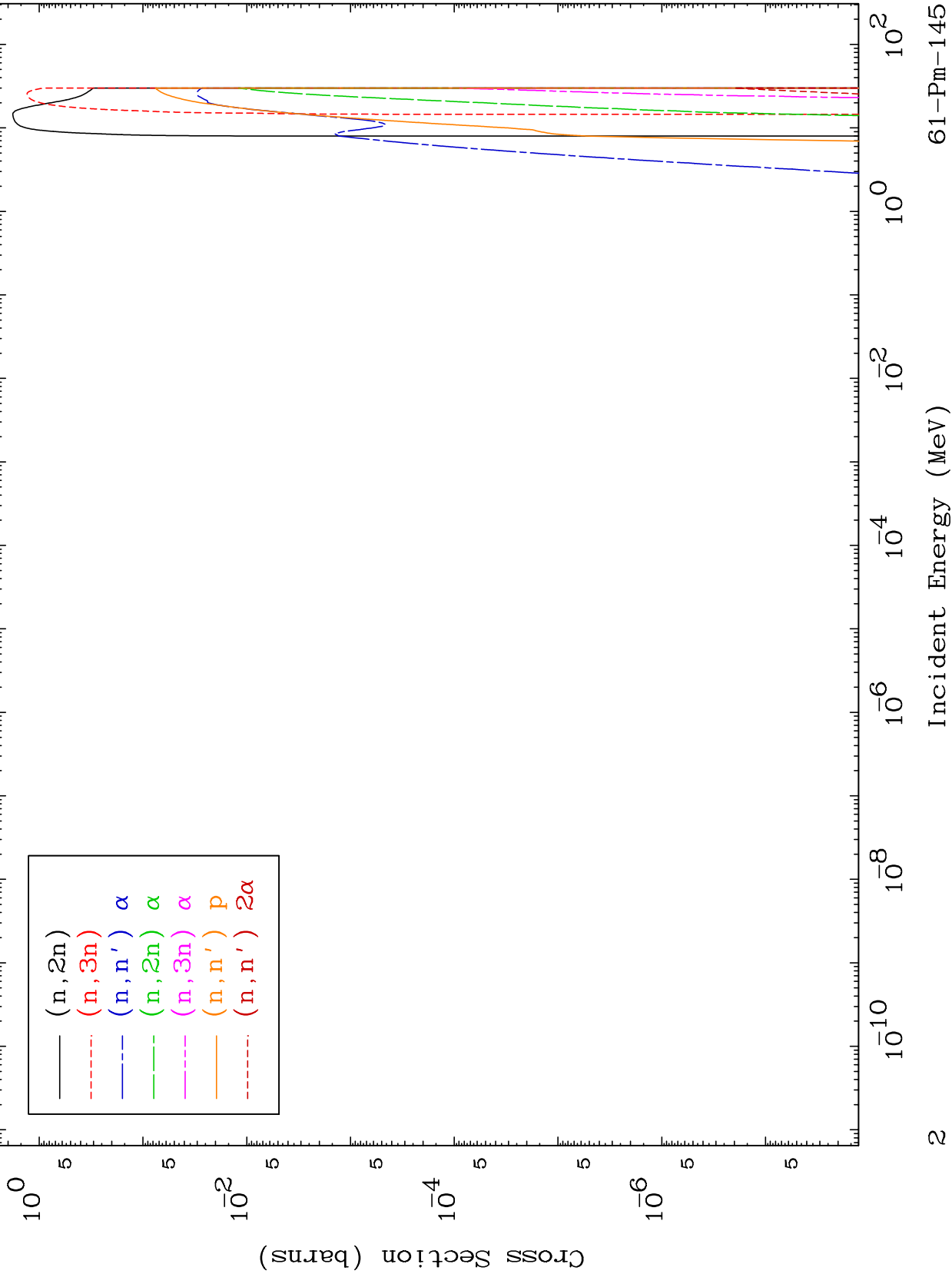
61-Pm-145



MAT 6143

Neutron Production  
293 Kelvin Cross Sections

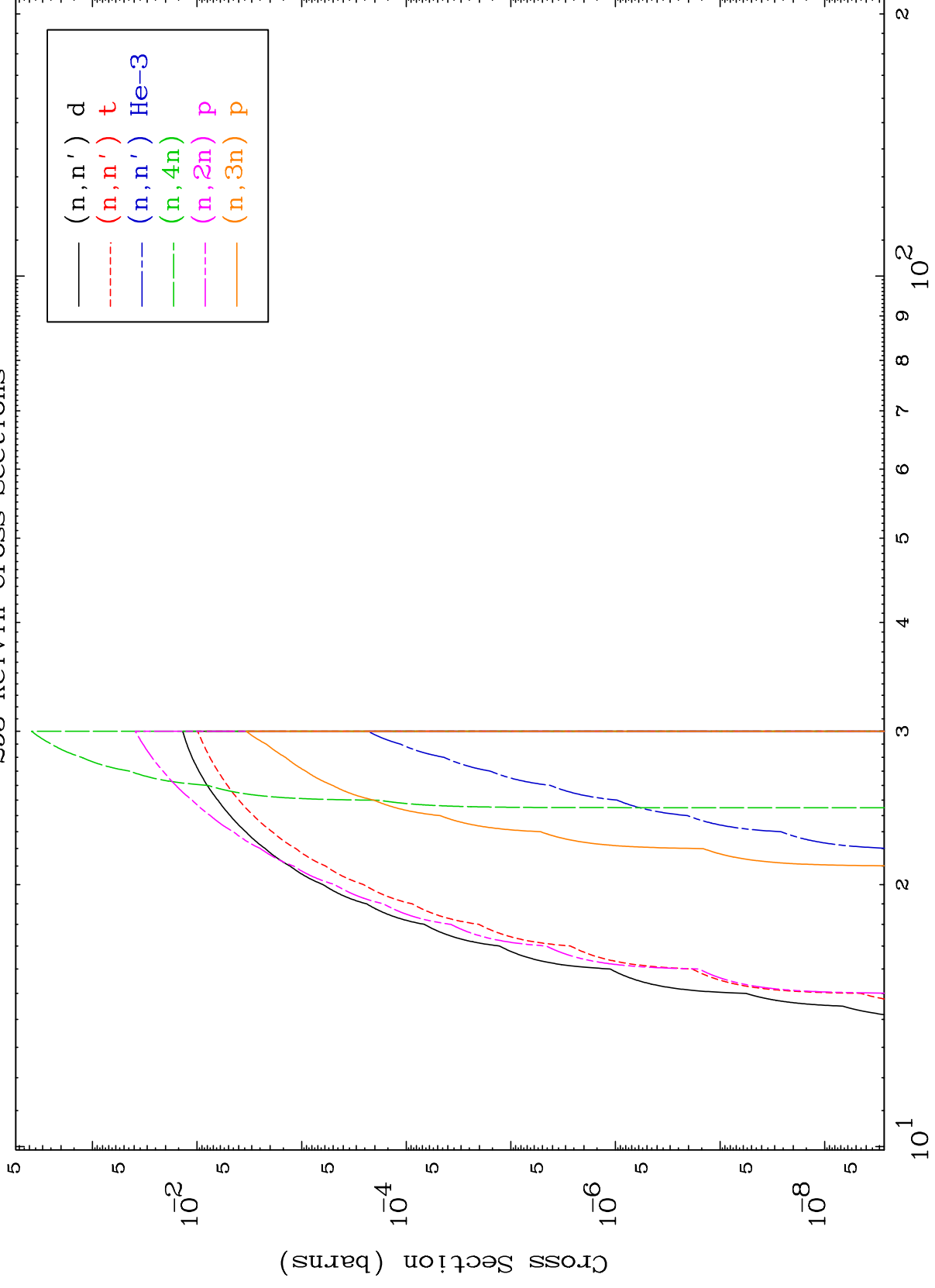
61-Pm-145



MAT 6143

Neutron Production  
293 Kelvin Cross Sections

61-Pm-145



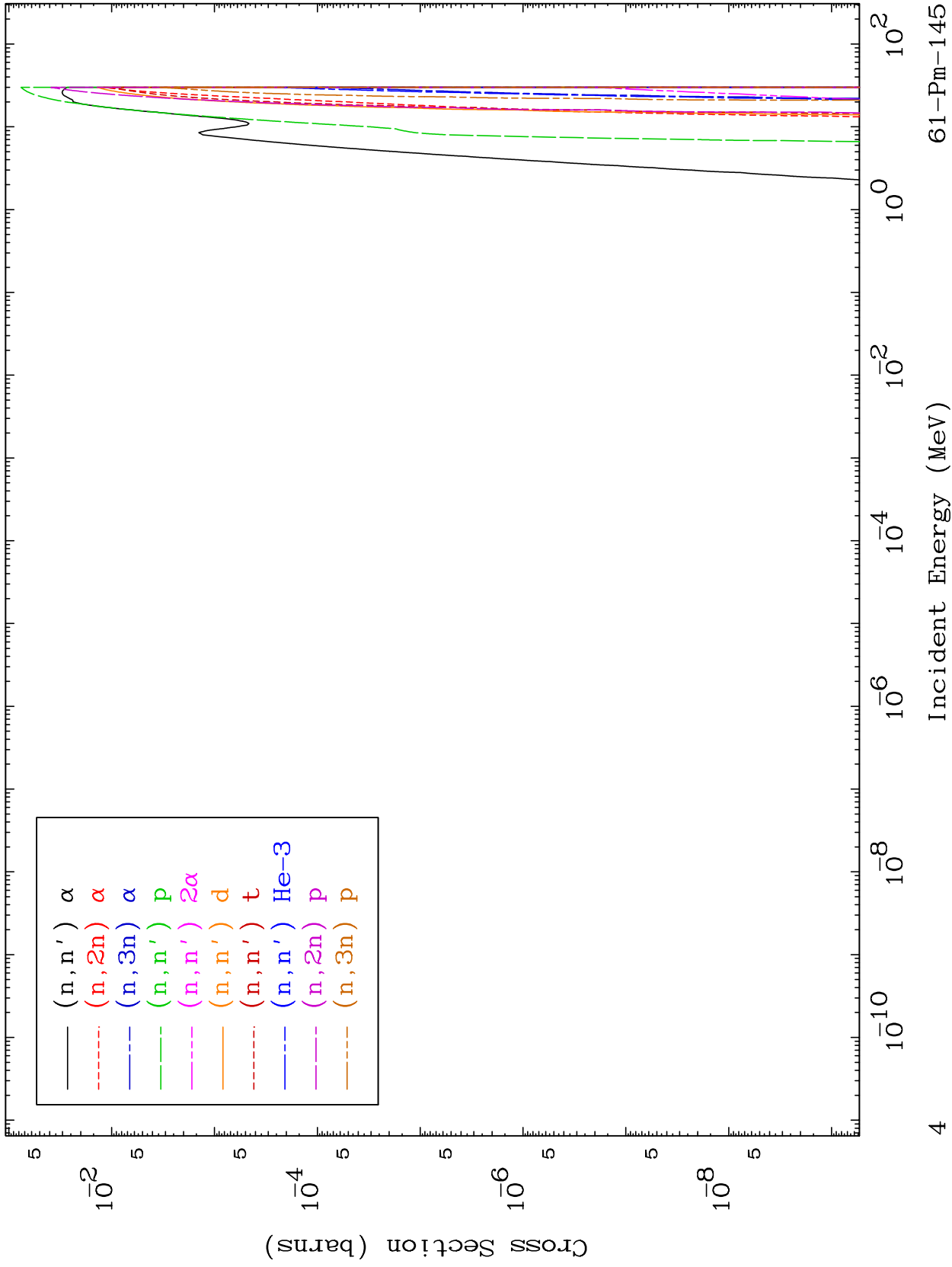
61-Pm-145

Incident Energy (MeV)

MAT 6143

Charged Particle  
293 Kelvin Cross Sections

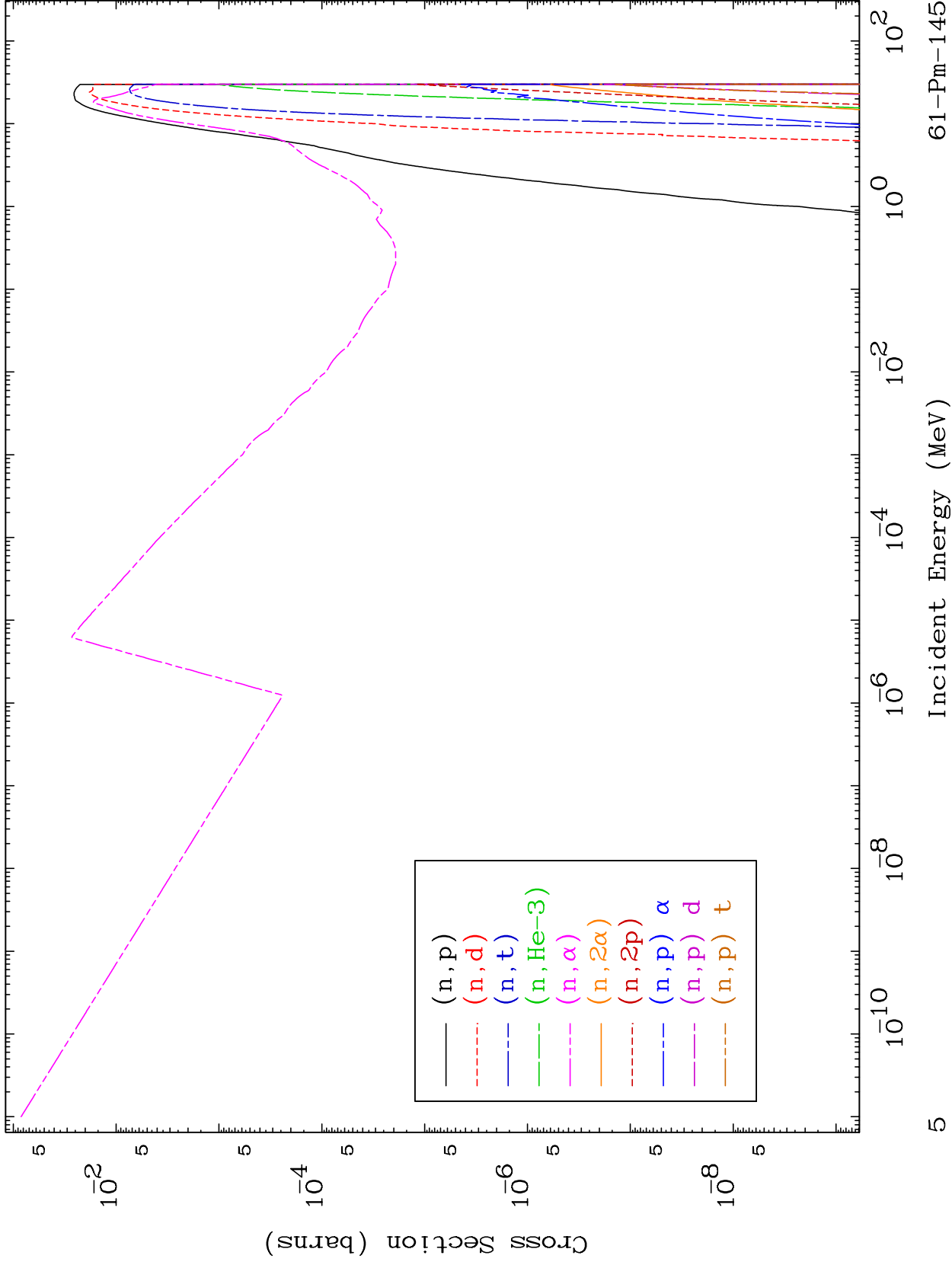
61-Pm-145



MAT 6143

Charged Particle  
293 Kelvin Cross Sections

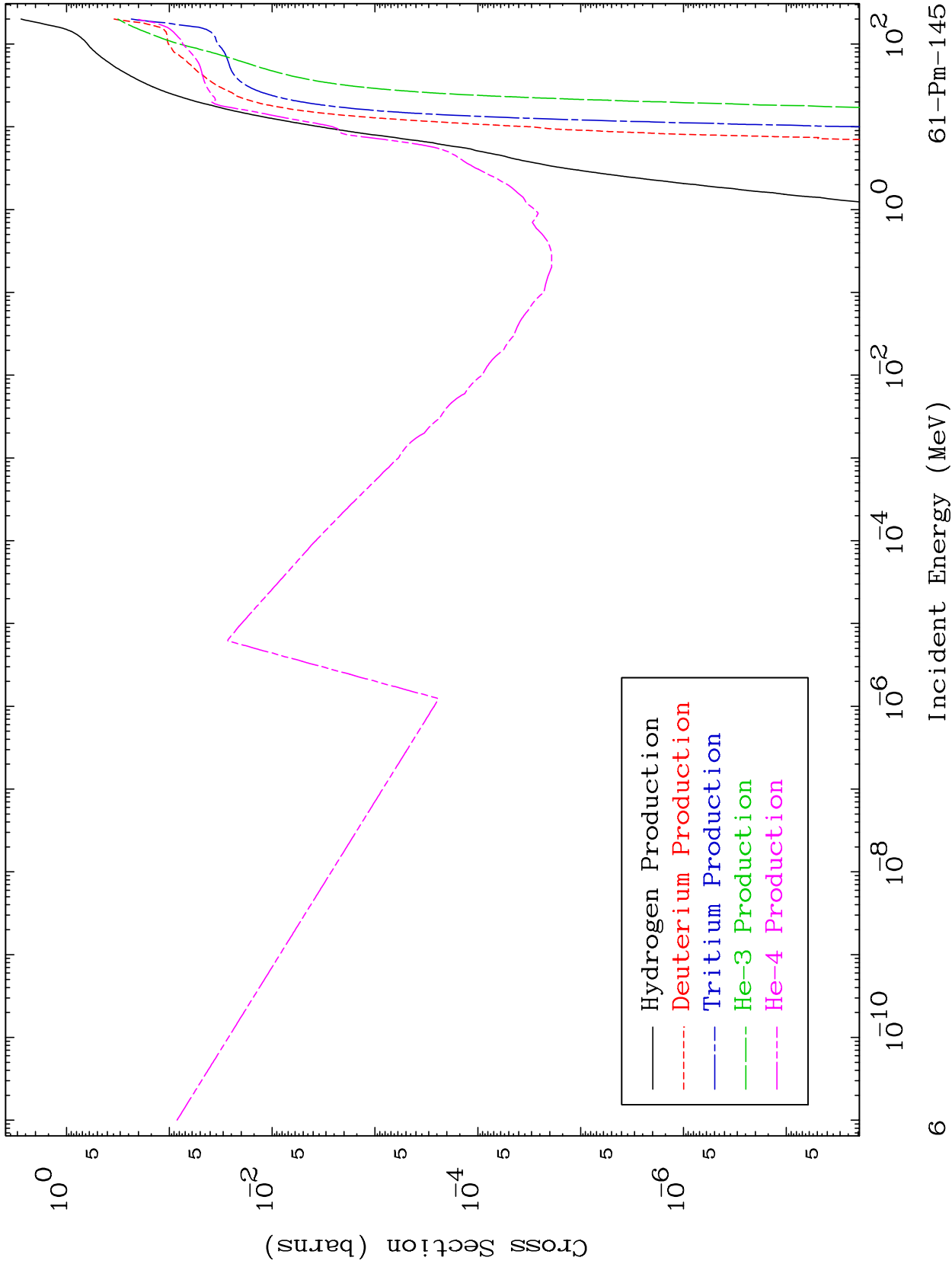
61-Pm-145



MAT 6143

Particle Production  
293 Kelvin Cross Sections

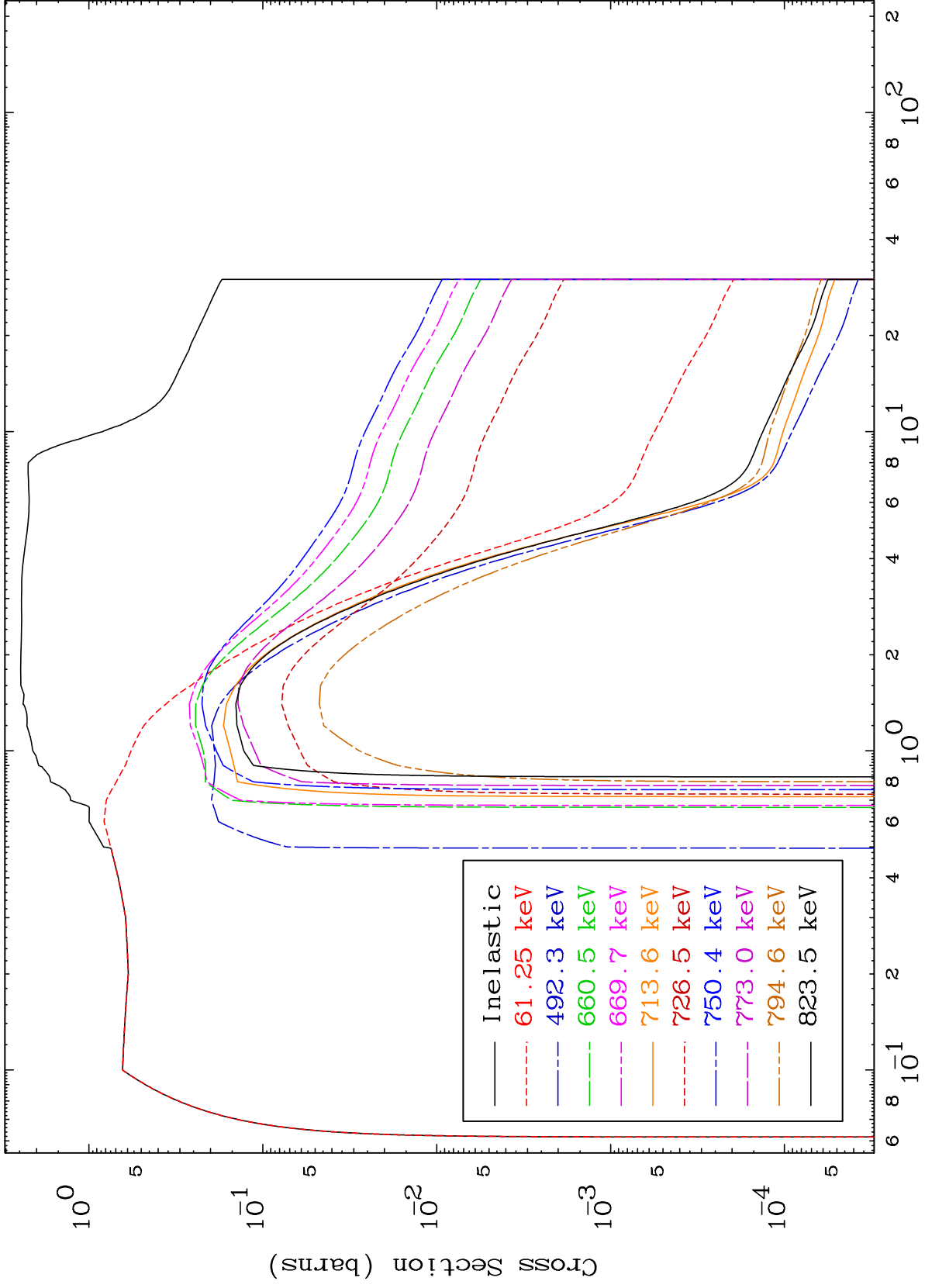
61-Pm-145



MAT 6143

(n,n') Level  
293 Kelvin Cross Sections

61-Pm-145



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Incident Energy (MeV)

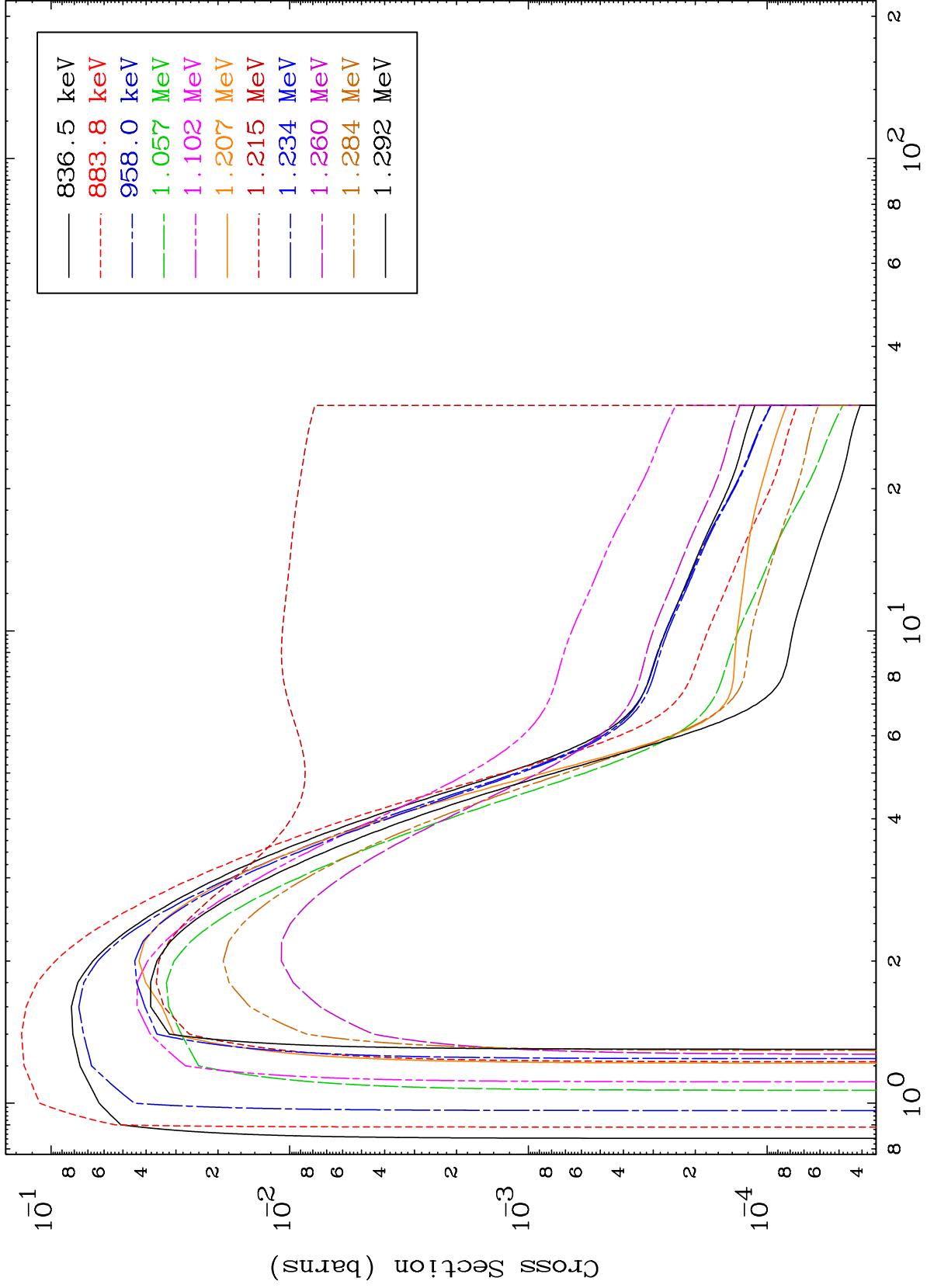
61-Pm-145



MAT 6143

(n,n') Level  
293 Kelvin Cross Sections

61-Pm-145



61-Pm-145

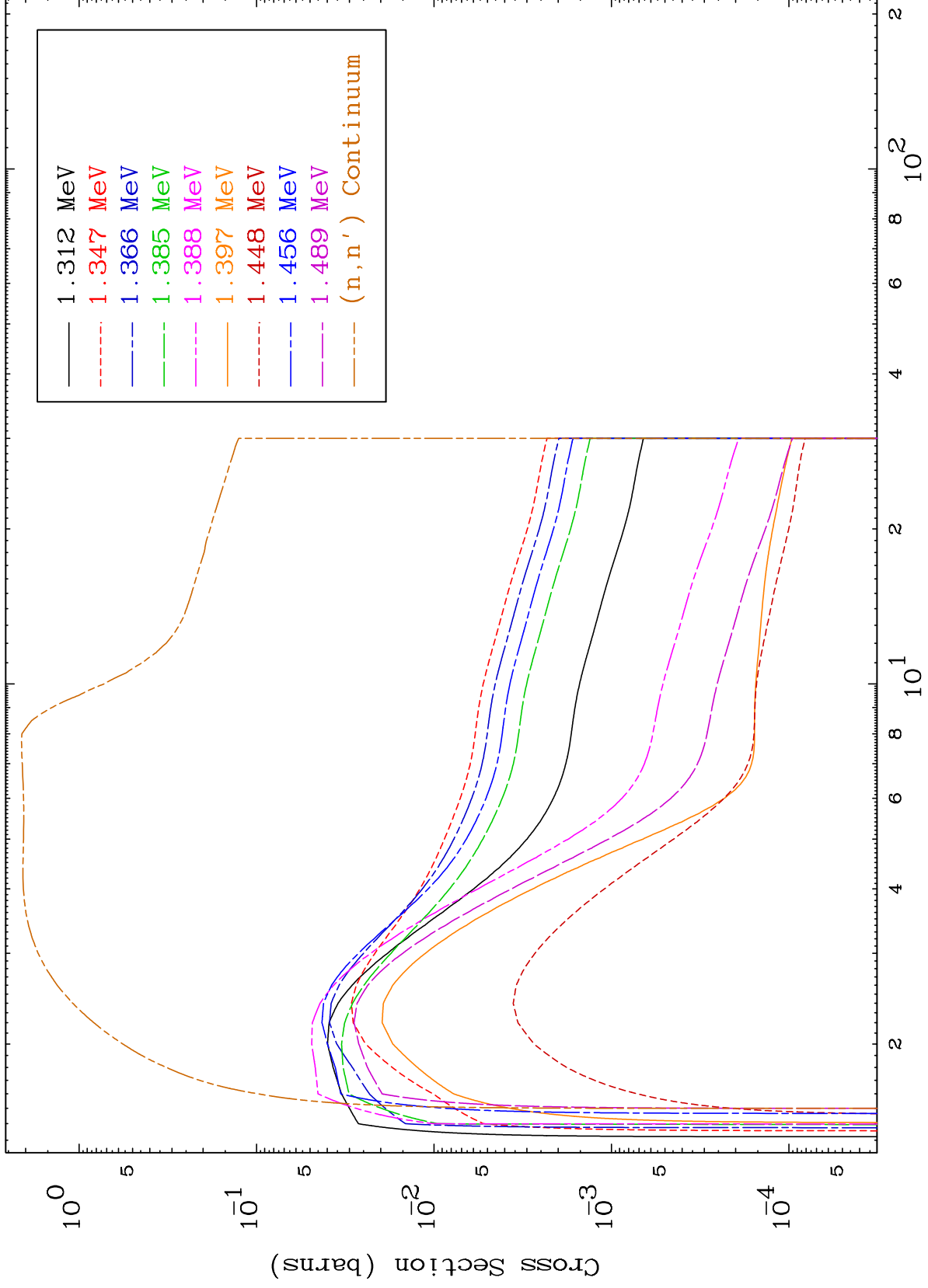
Incident Energy (MeV)

8

MAT 6143

(n,n') Level  
293 Kelvin Cross Sections

61-Pm-145



9

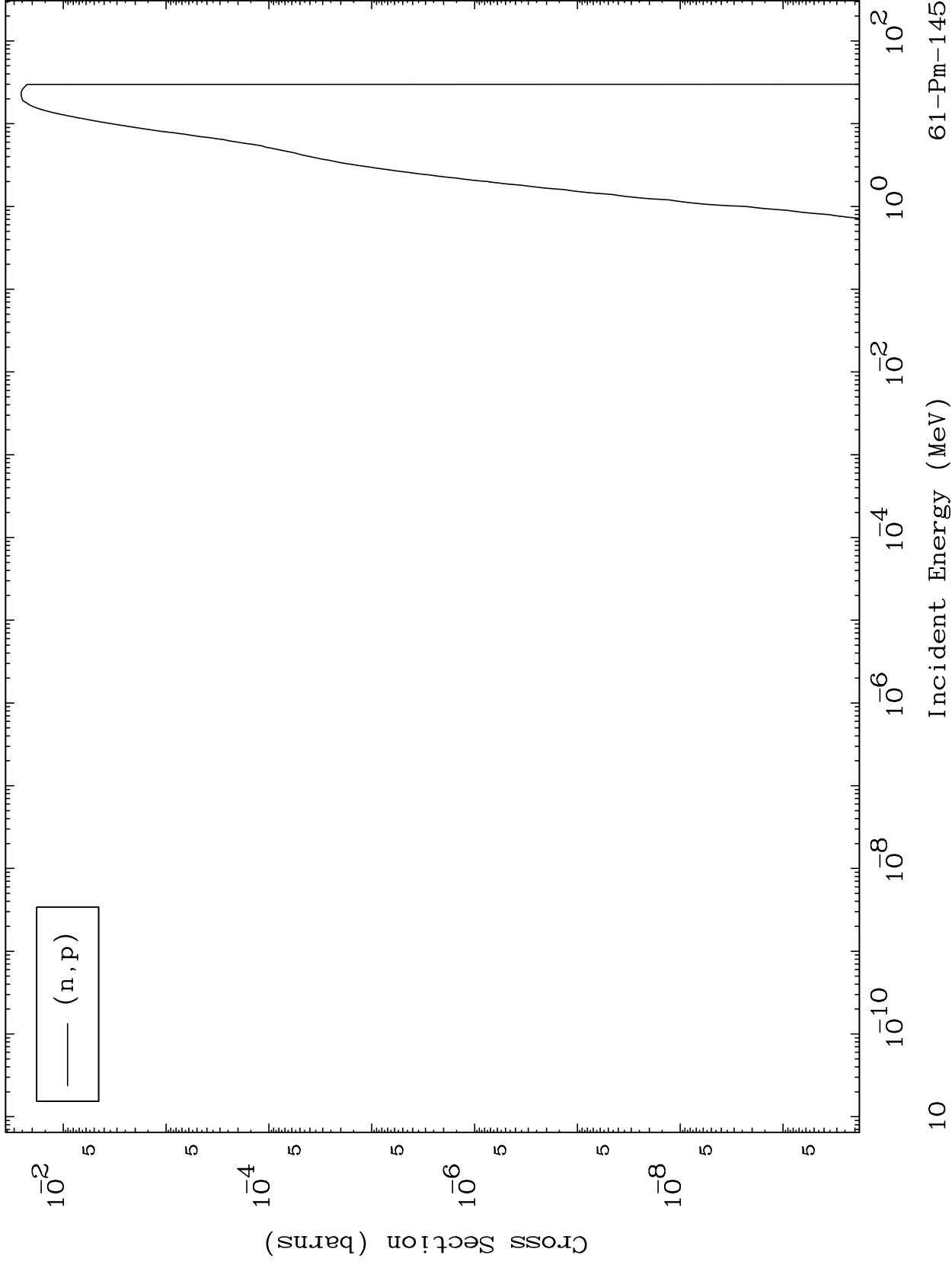
Incident Energy (MeV)

61-Pm-145

MAT 6143

(n,p) Levels  
293 Kelvin Cross Sections

61-Pm-145



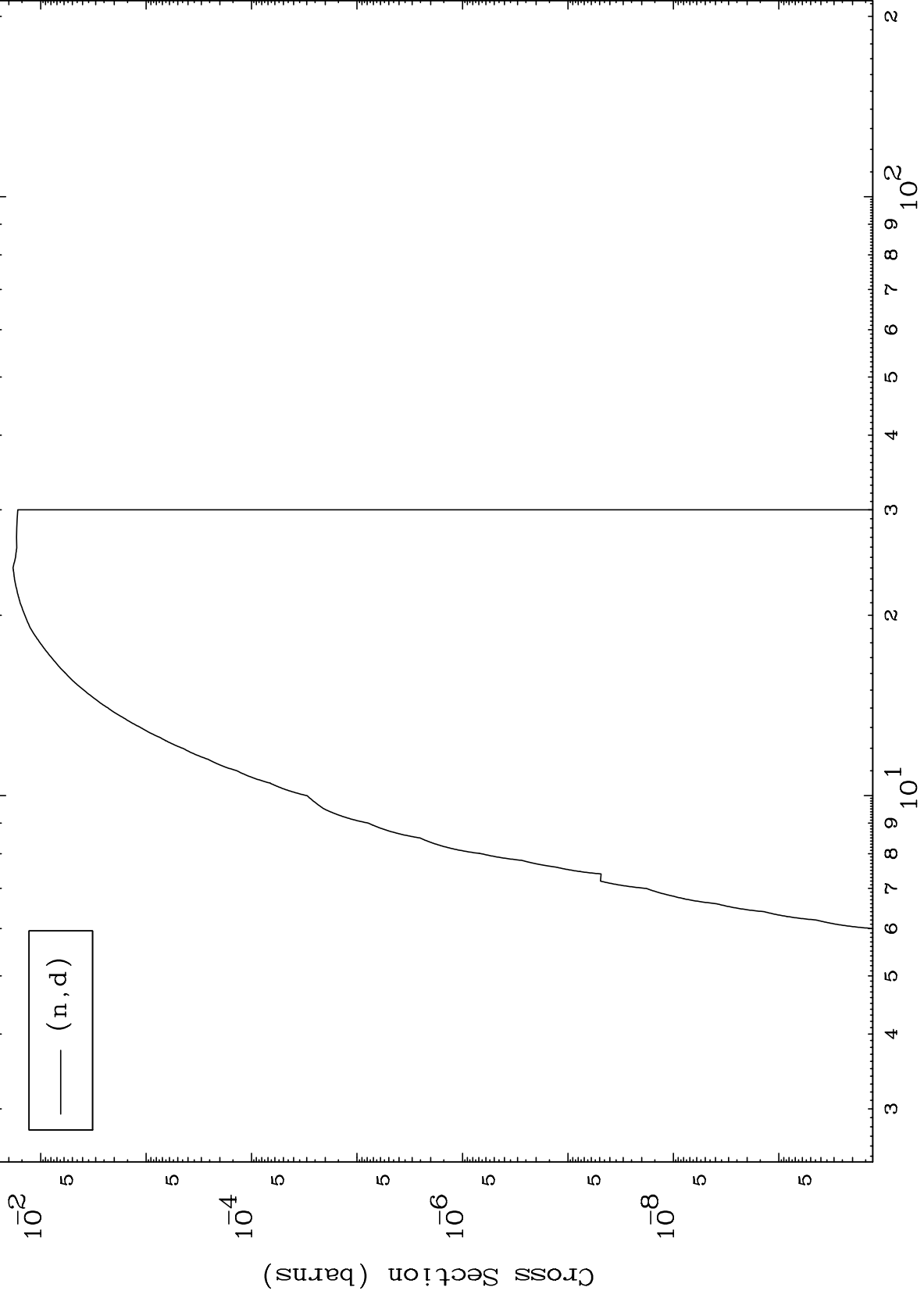
10

61-Pm-145

MAT 6143

(n,d) Levels  
293 Kelvin Cross Sections

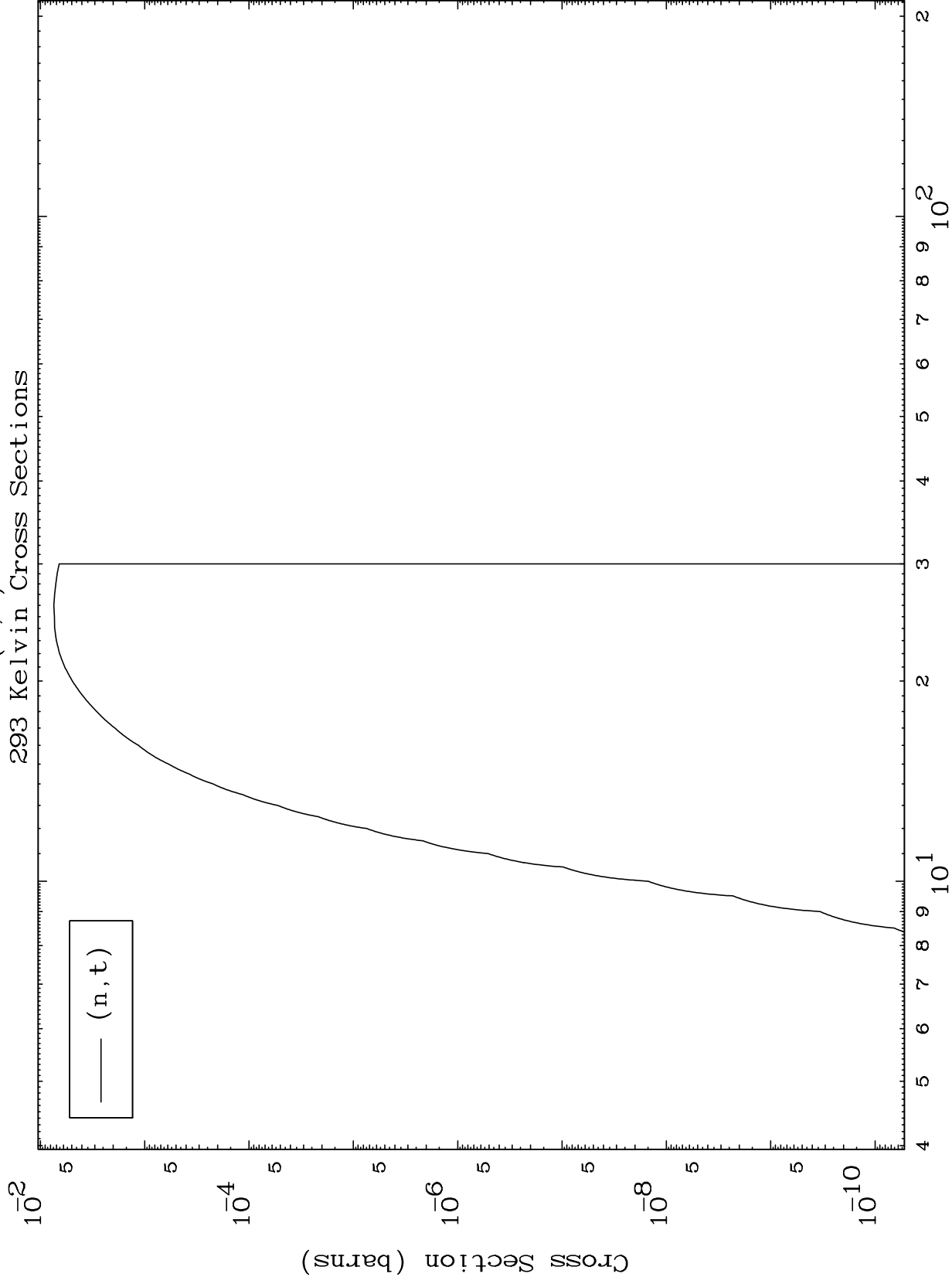
61-Pm-145



MAT 6143

(n,t) Levels  
293 Kelvin Cross Sections

61-Pm-145



12

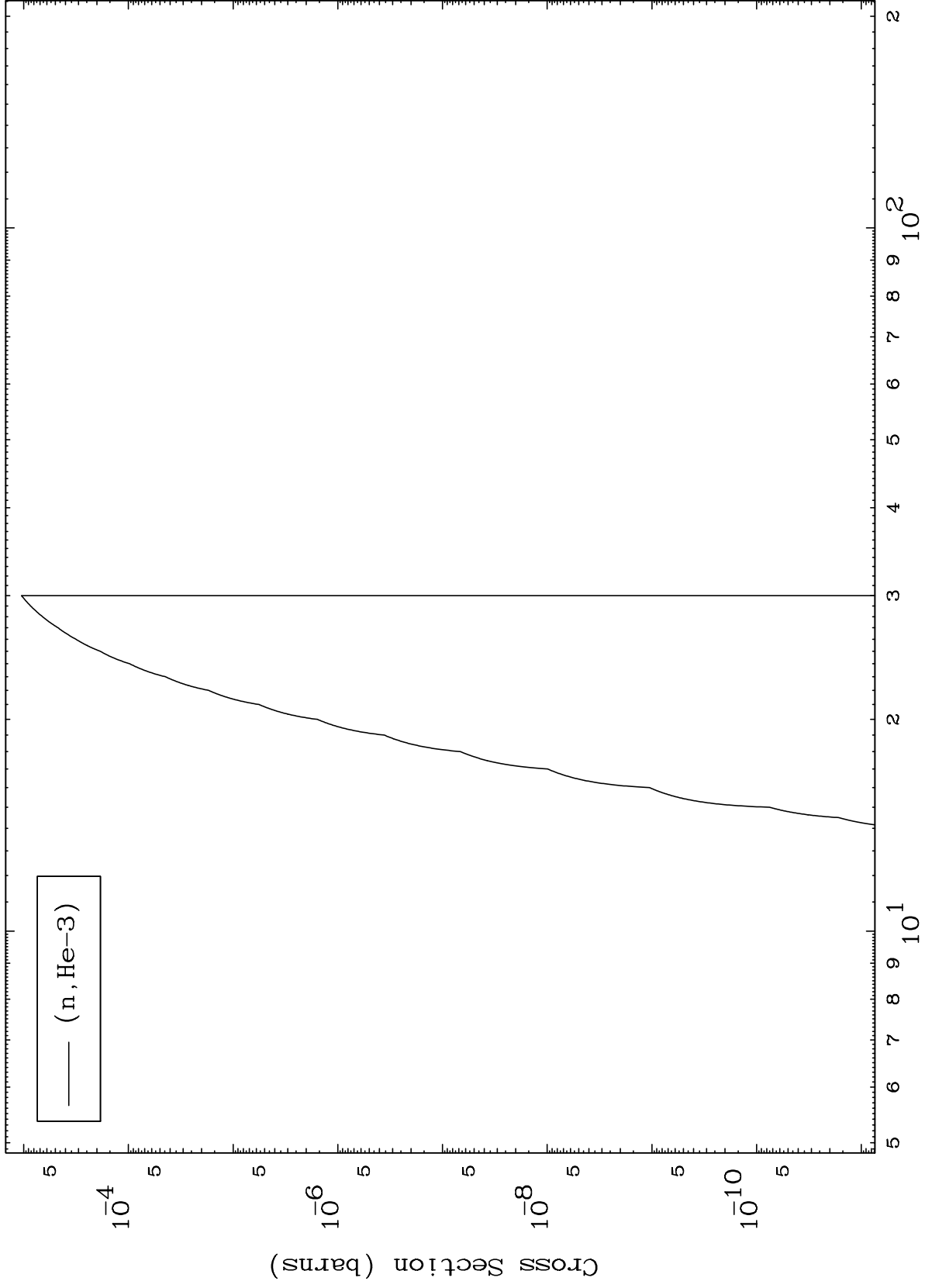
Incident Energy (MeV)

61-Pm-145

MAT 6143

(n,He3) Levels  
293 Kelvin Cross Sections

61-Pm-145



13

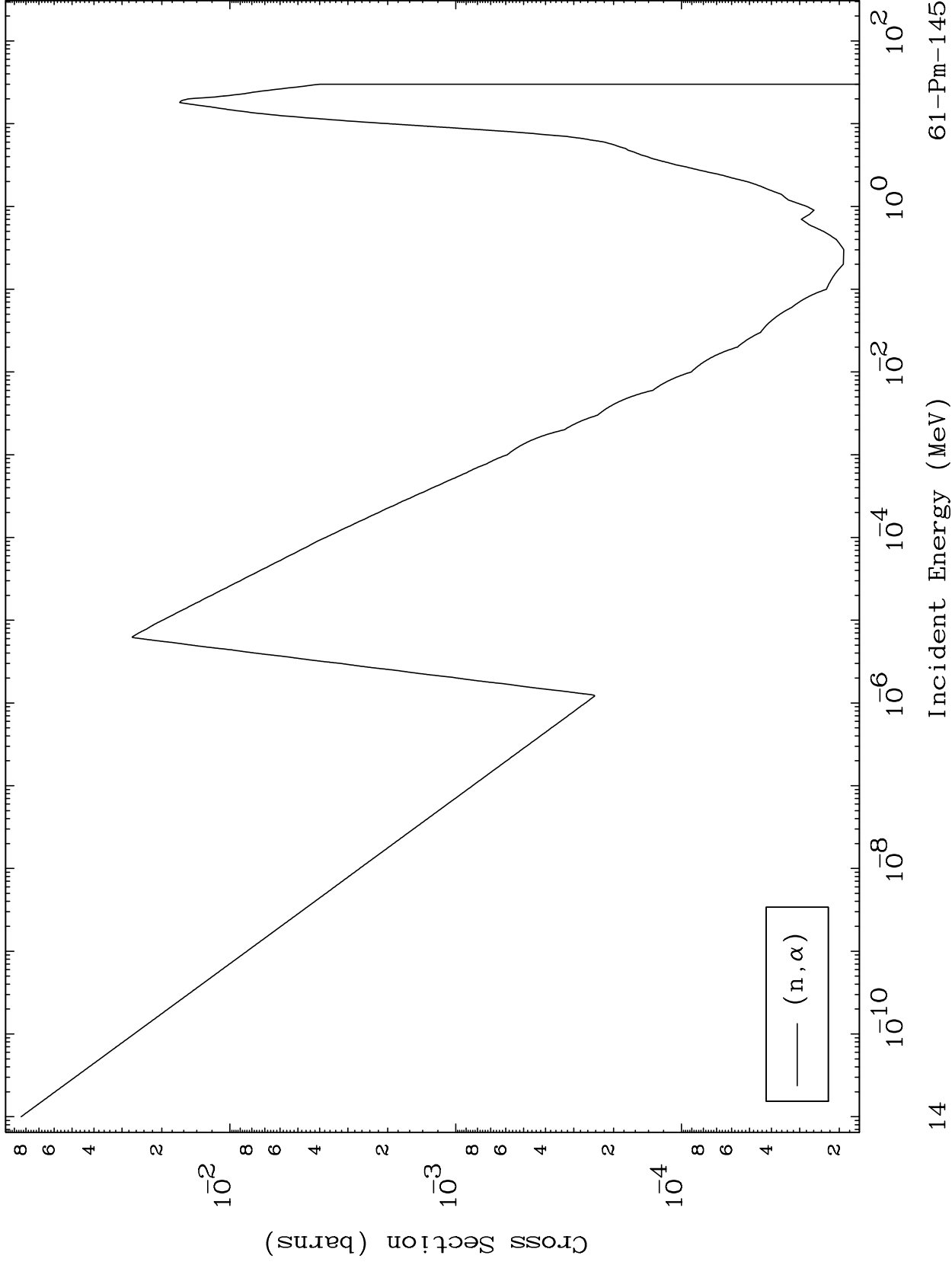
Incident Energy (MeV)

61-Pm-145

MAT 6143

(n,  $\alpha$ ) Levels  
293 Kelvin Cross Sections

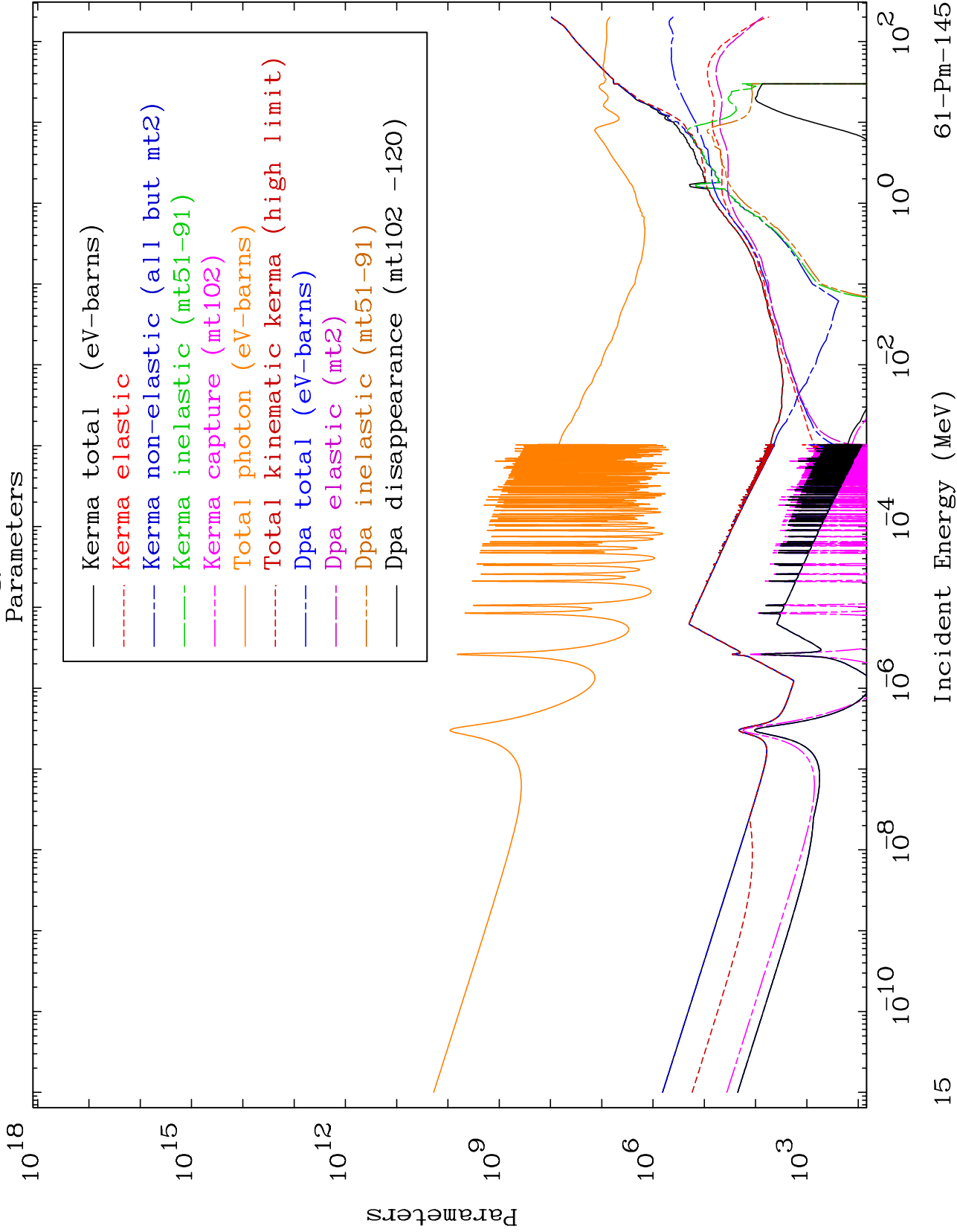
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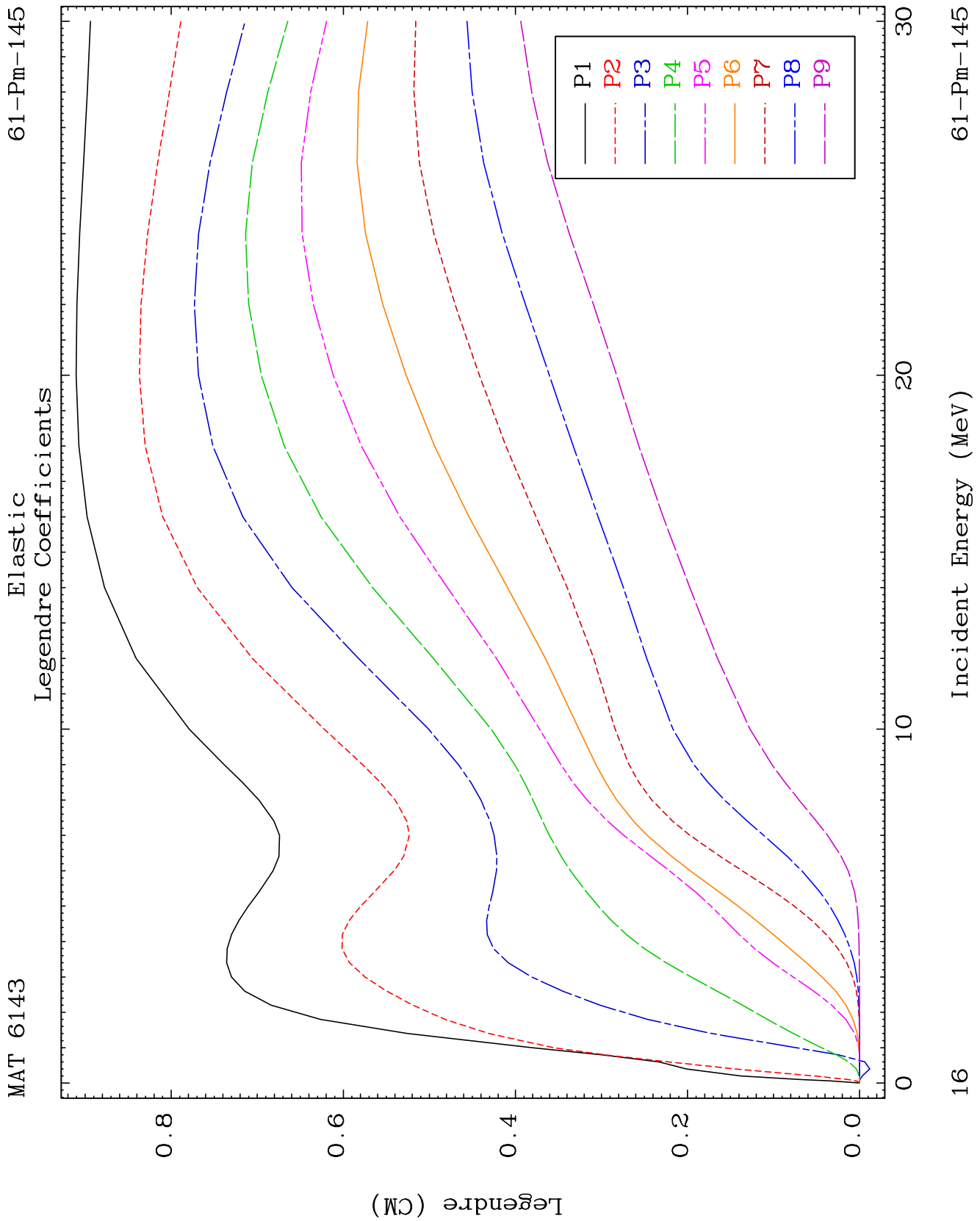
14

Incident Energy (MeV)

61-Pm-145



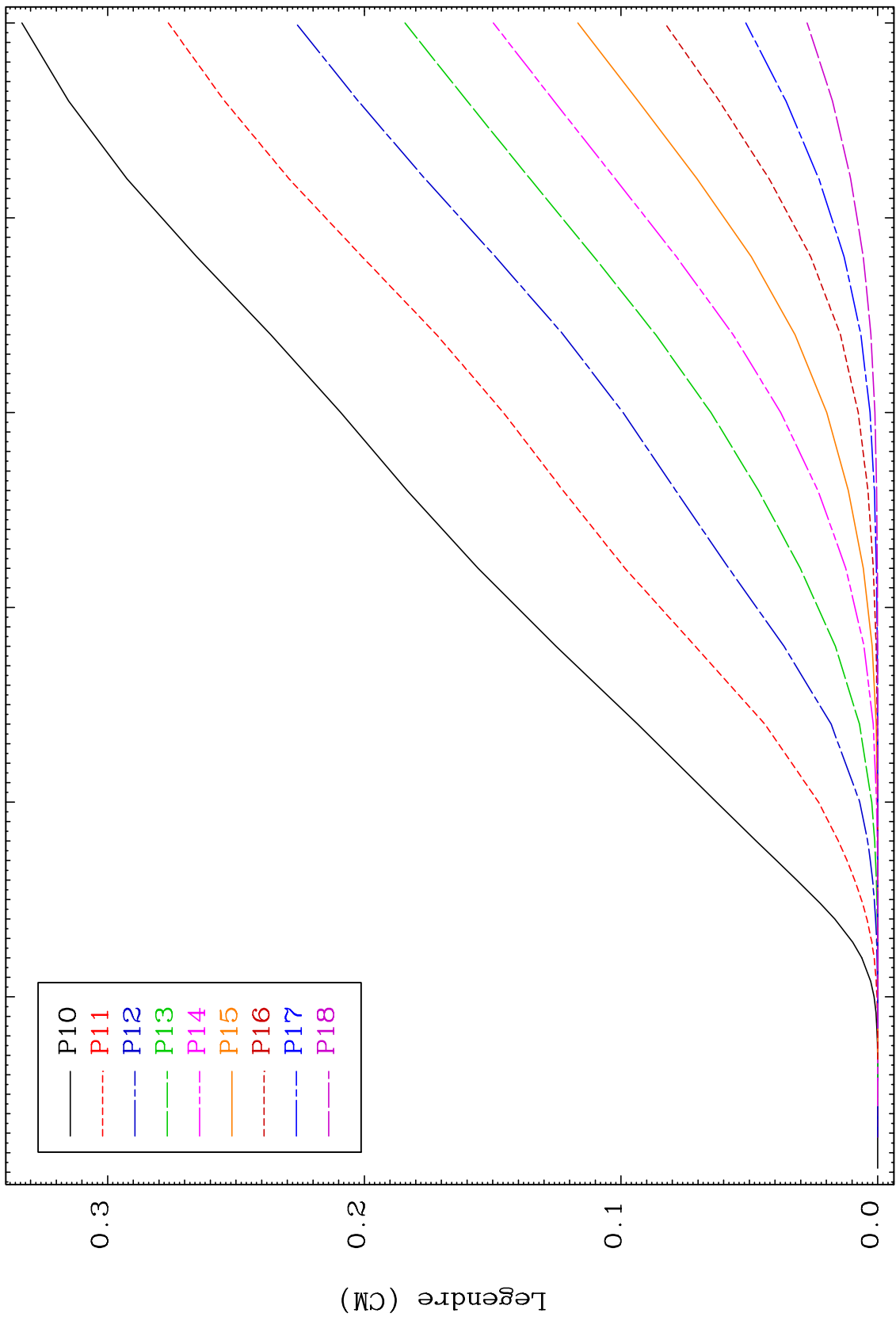




MAT 6143

Elastic Legendre Coefficients

61-Pm-145



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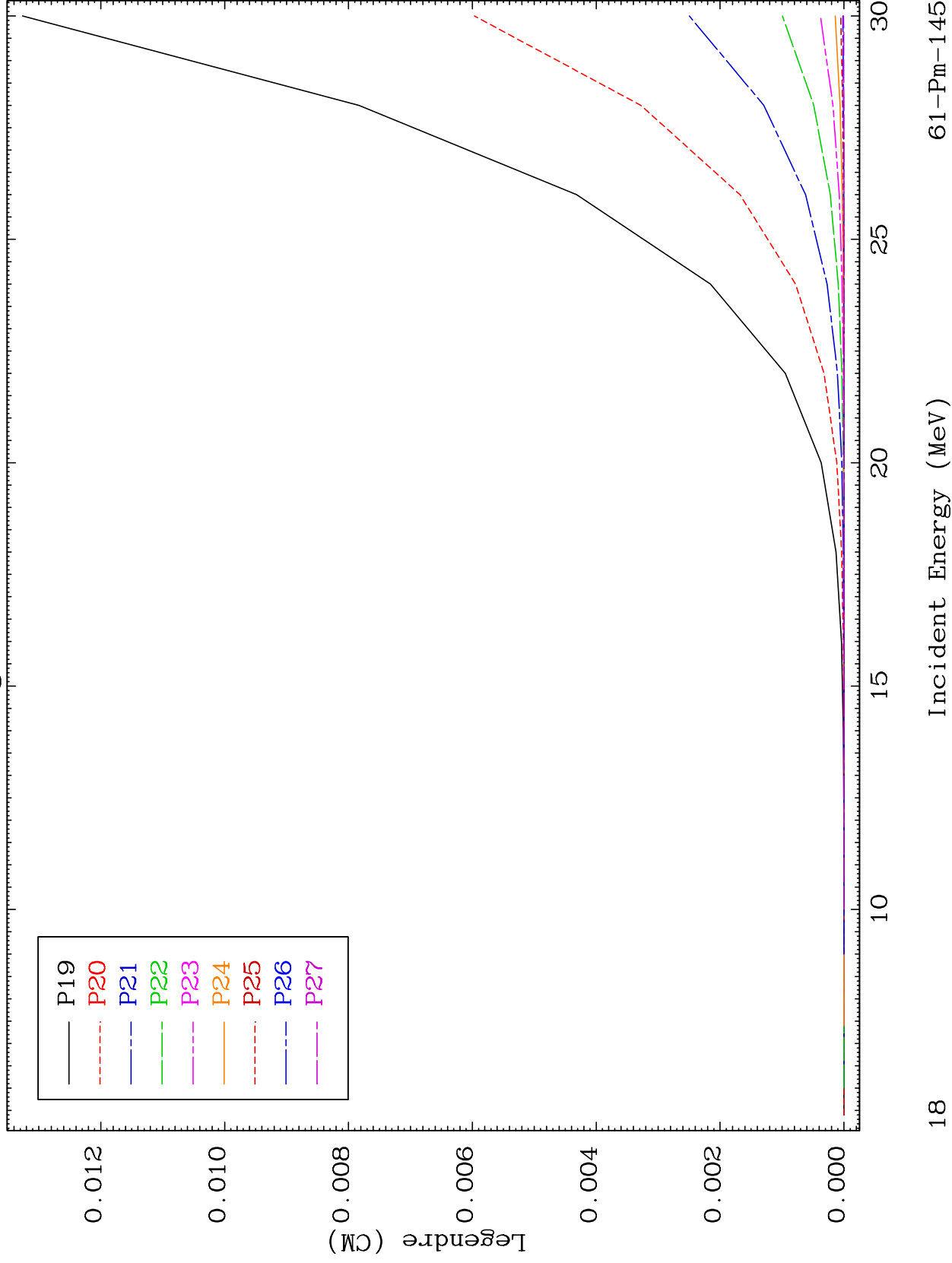
Incident Energy (MeV)

61-Pm-145

MAT 6143

### Elastic Legendre Coefficients

61-Pm-145



18

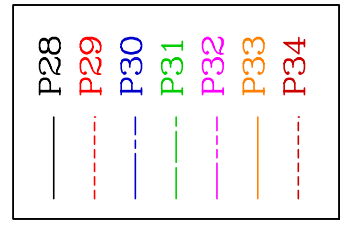
Incident Energy (MeV)

61-Pm-145

MAT 6143

Elastic Legendre Coefficients

61-Pm-145

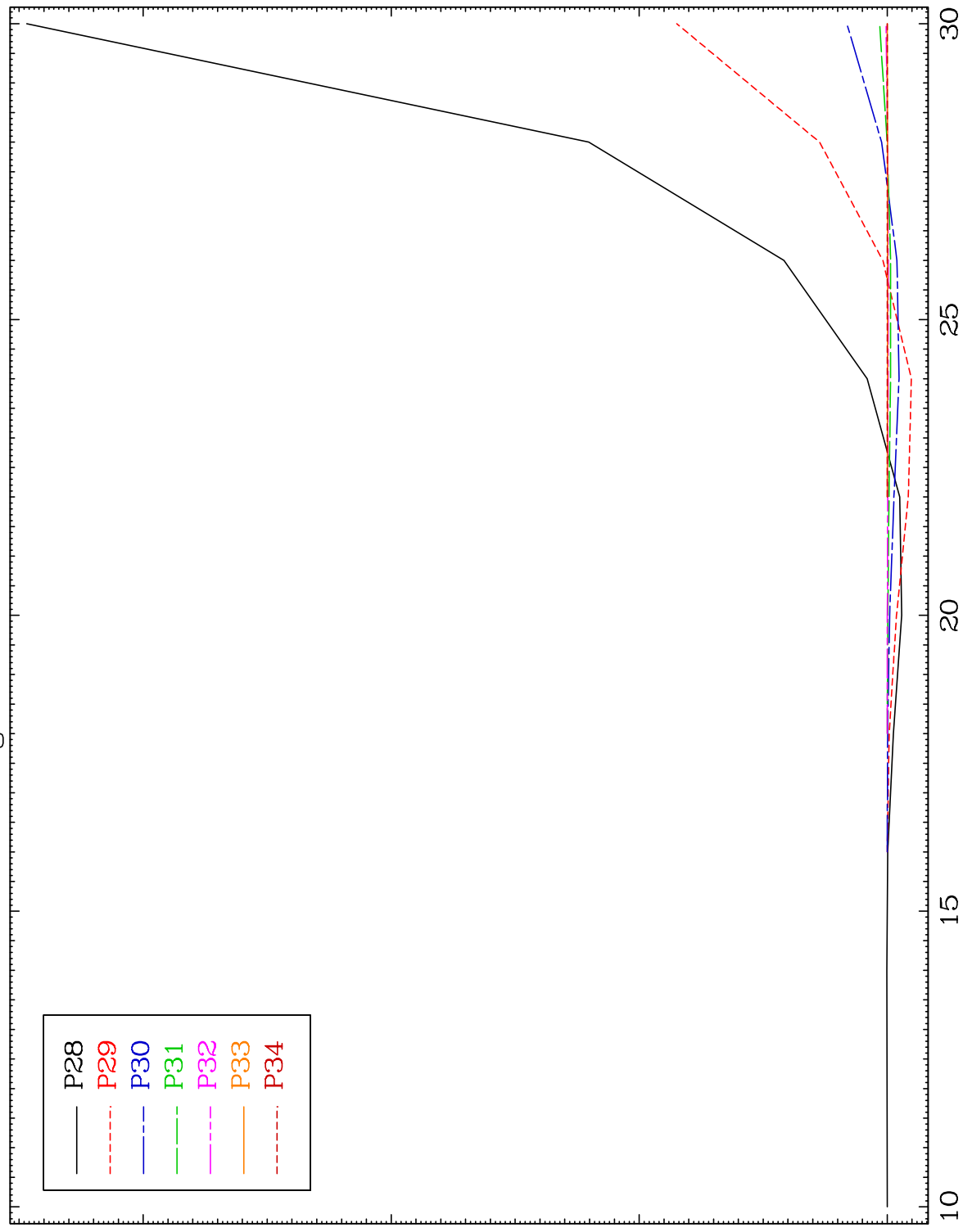


$\times 10^{-6}$

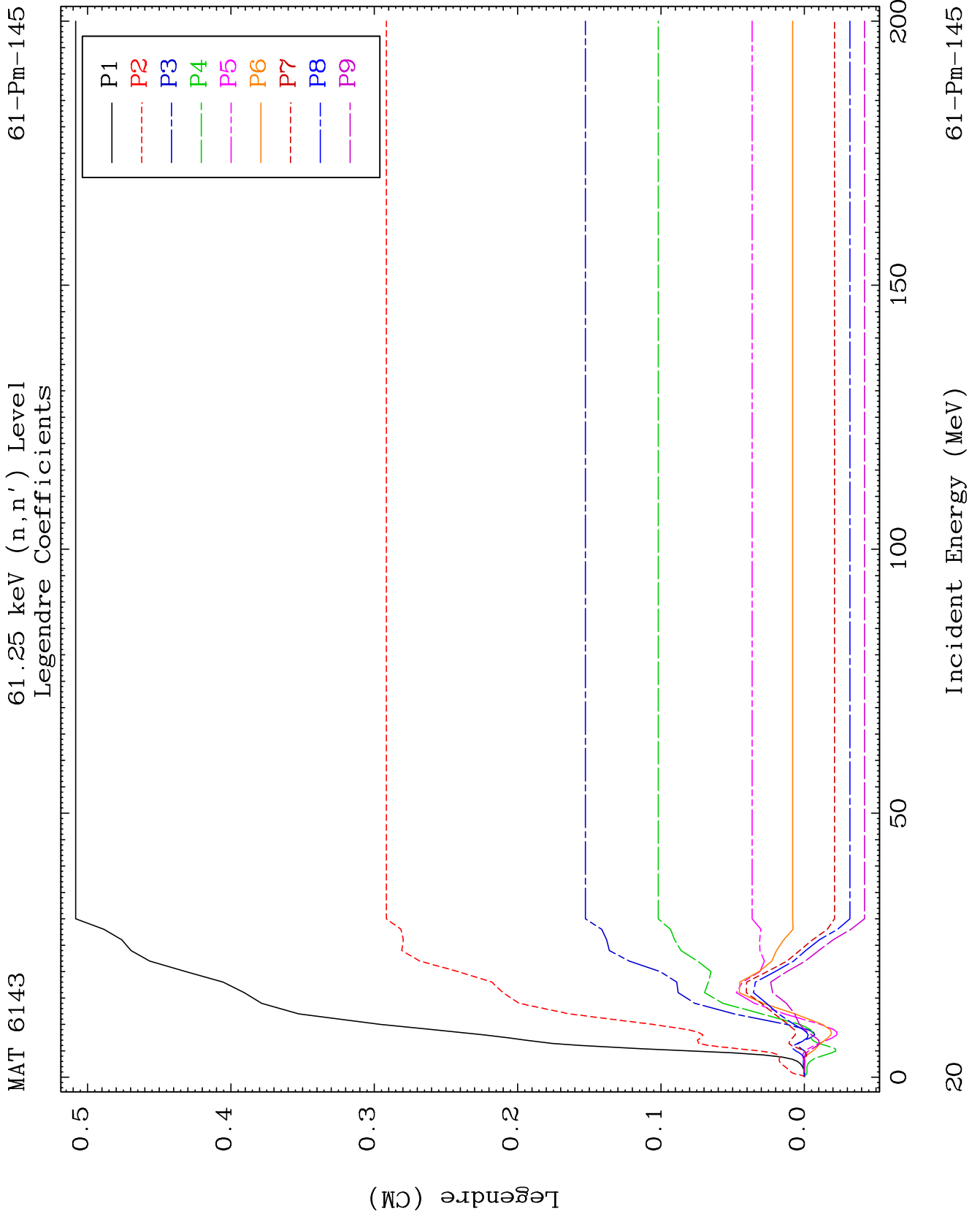
Legendre (CM)

Incident Energy (MeV)

61-Pm-145



10 15 20 25 30

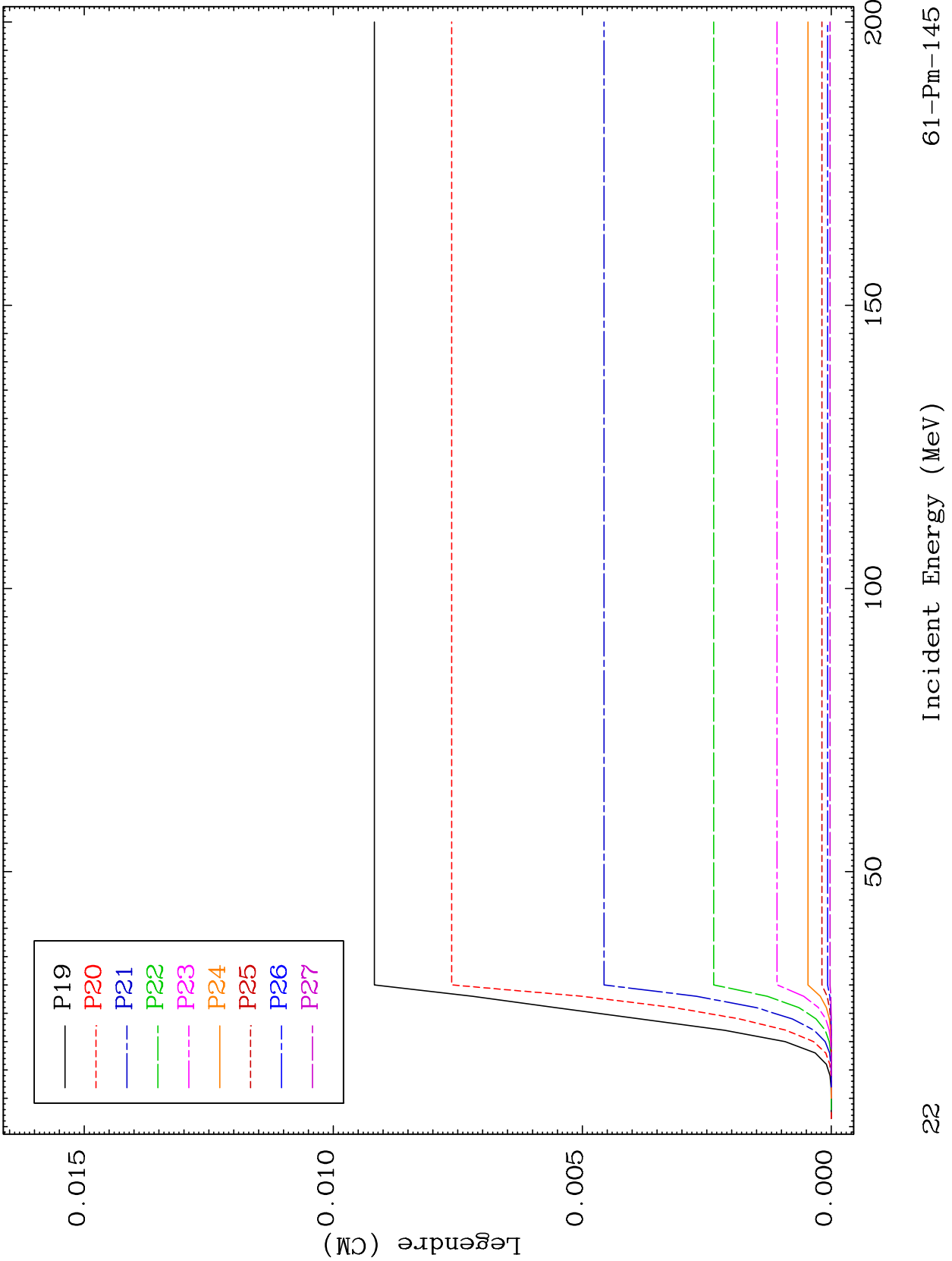


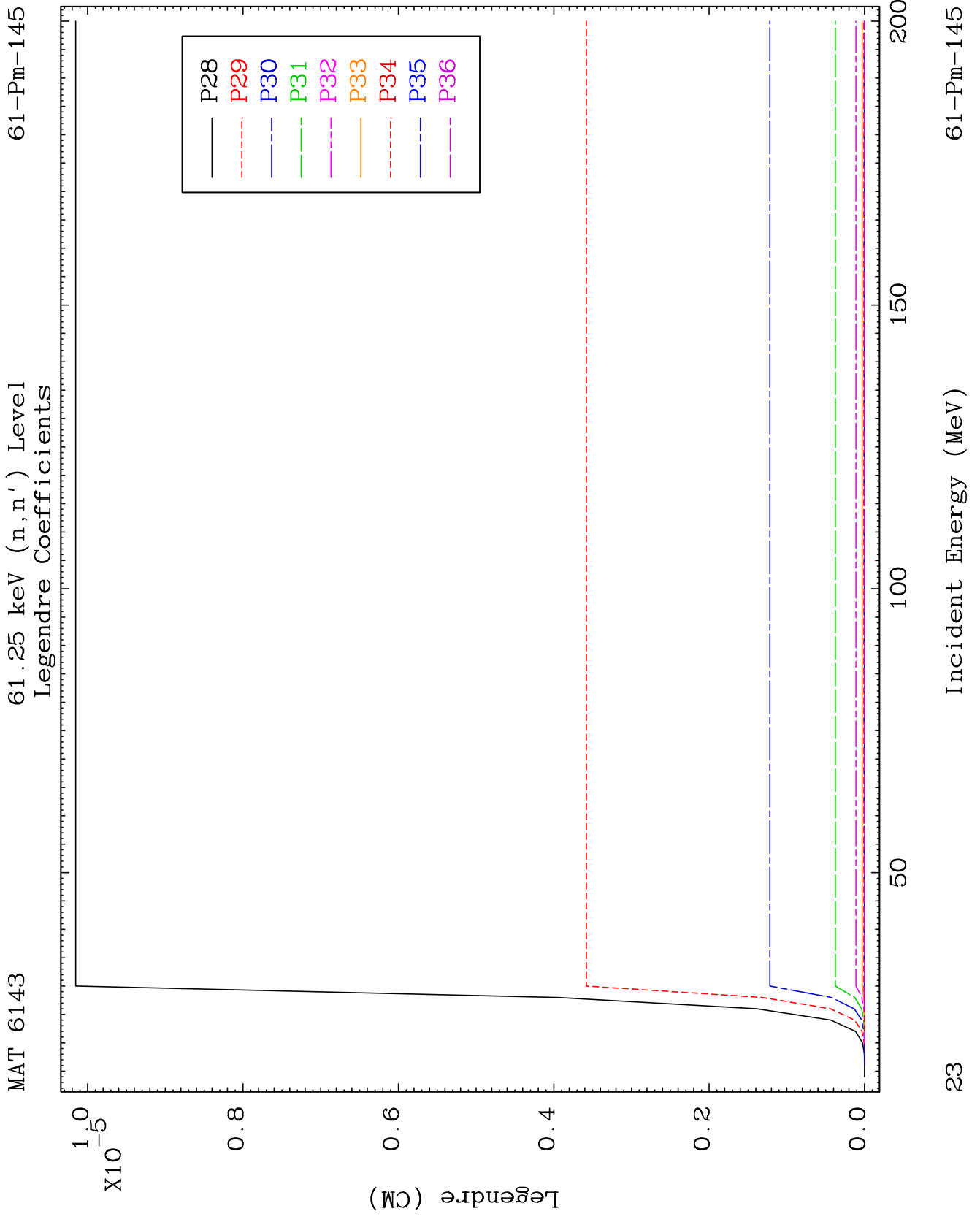


MAT 6143

61.25 keV (n,n') Level  
Legendre Coefficients

61-Pm-145



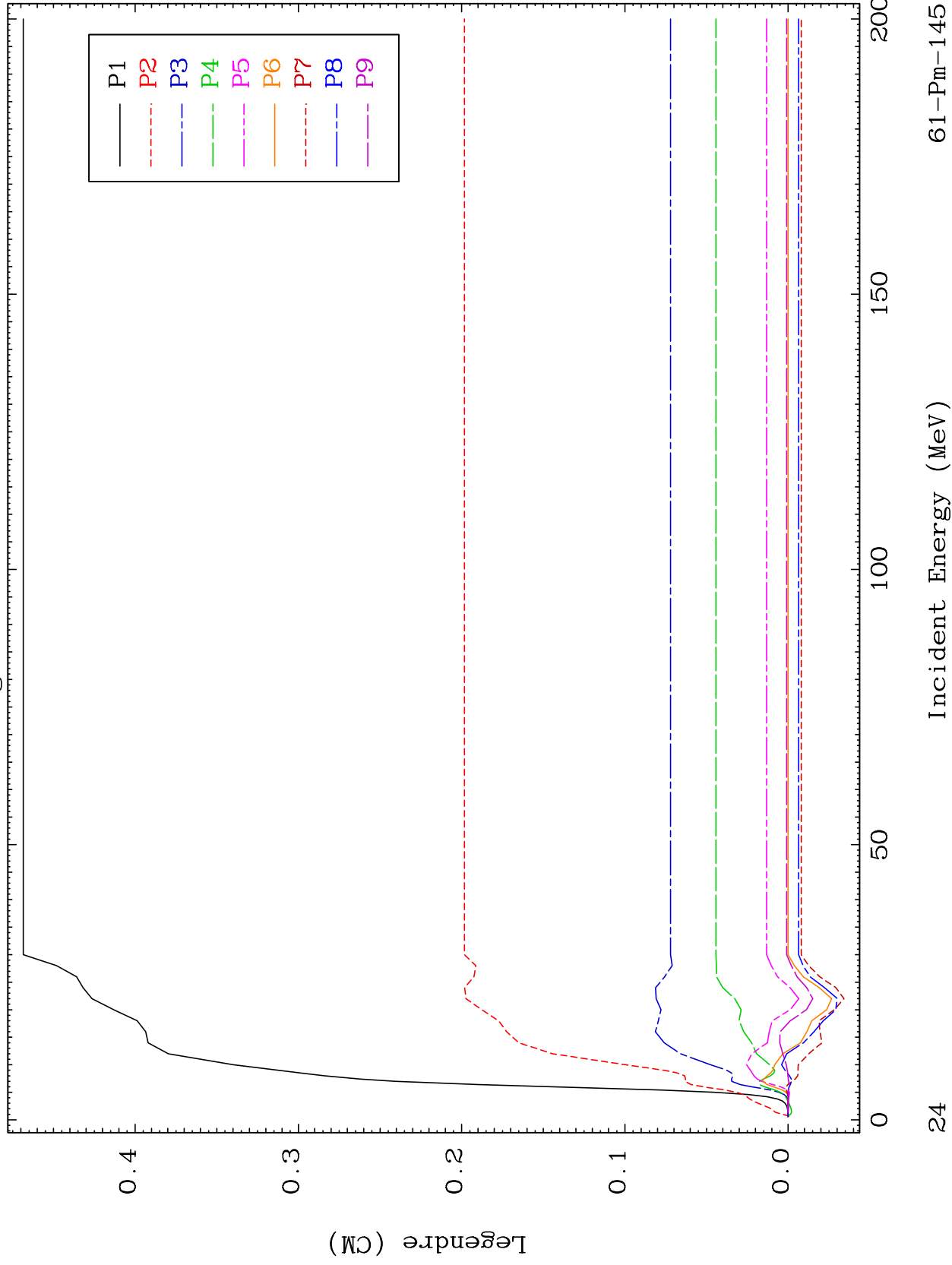




MAT 6143

492.3 keV (n,n') Level  
Legendre Coefficients

61-Pm-145



61-Pm-145

Incident Energy (MeV)

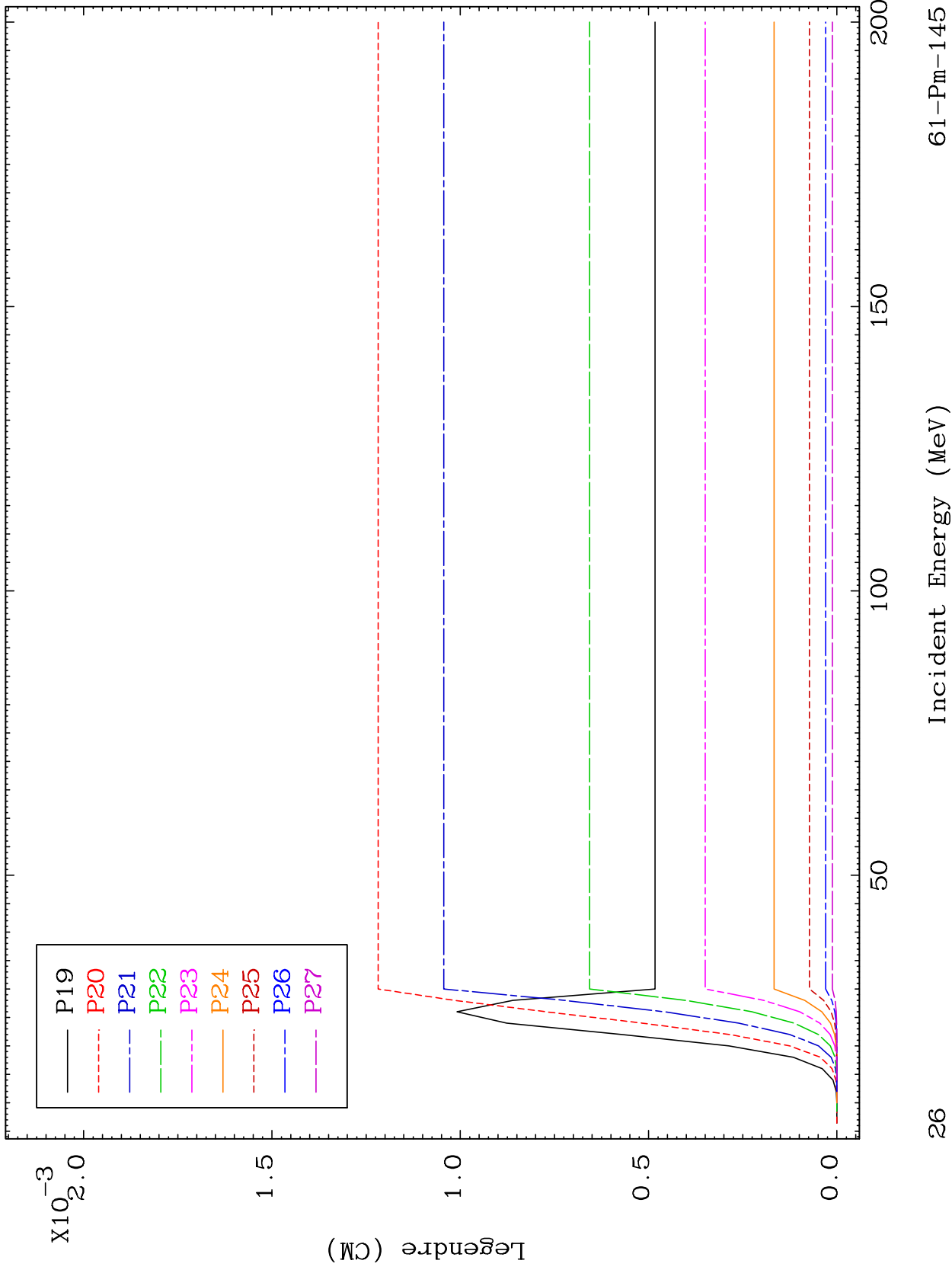
24



MAT 6143

492.3 keV (n,n') Level  
Legendre Coefficients

61-Pm-145



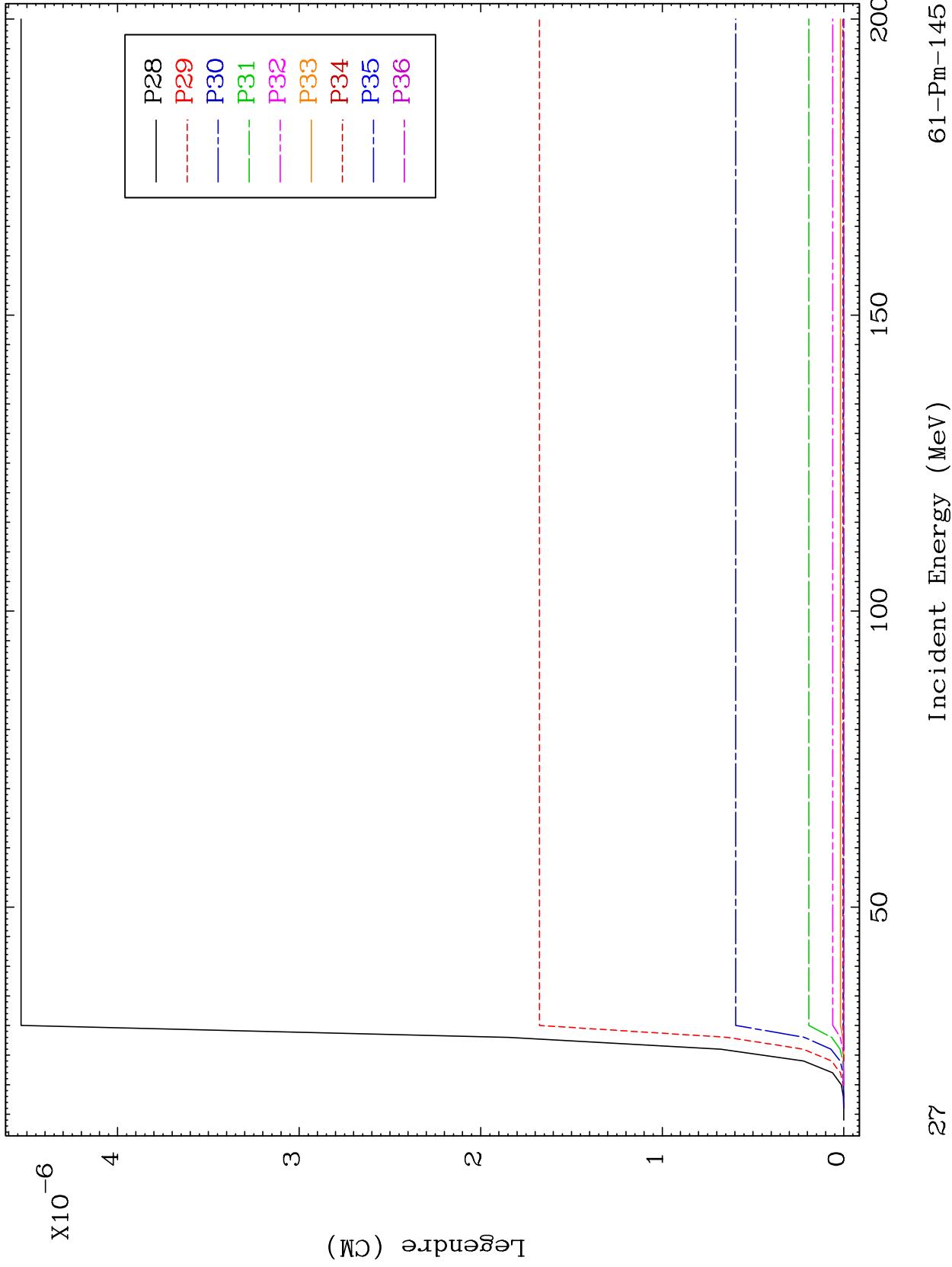
26

61-Pm-145

MAT 6143

492.3 keV (n,n') Level  
Legendre Coefficients

61-Pm-145



27

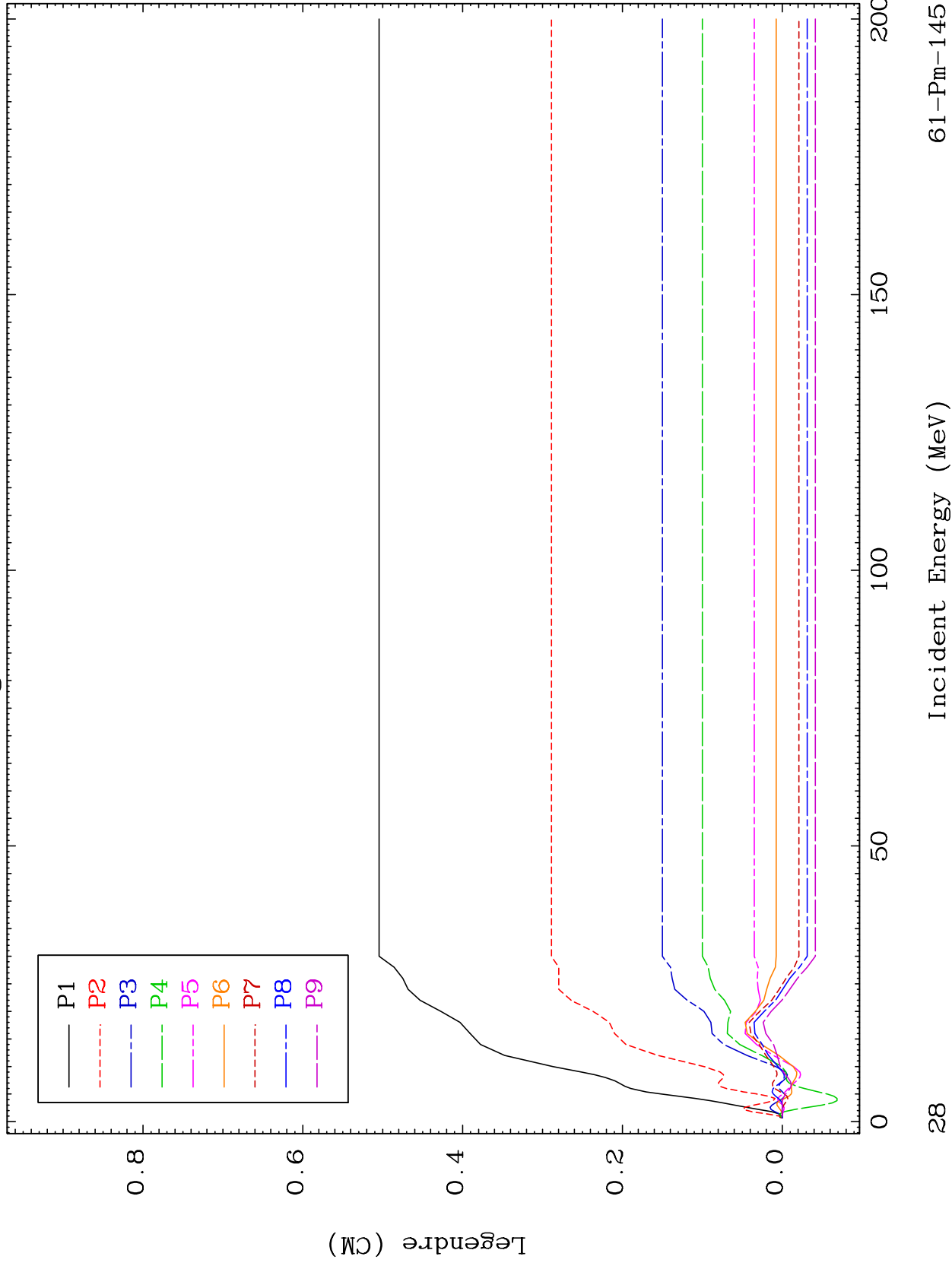
Incident Energy (MeV)

61-Pm-145

MAT 6143

660.5 keV (n,n') Level  
Legendre Coefficients

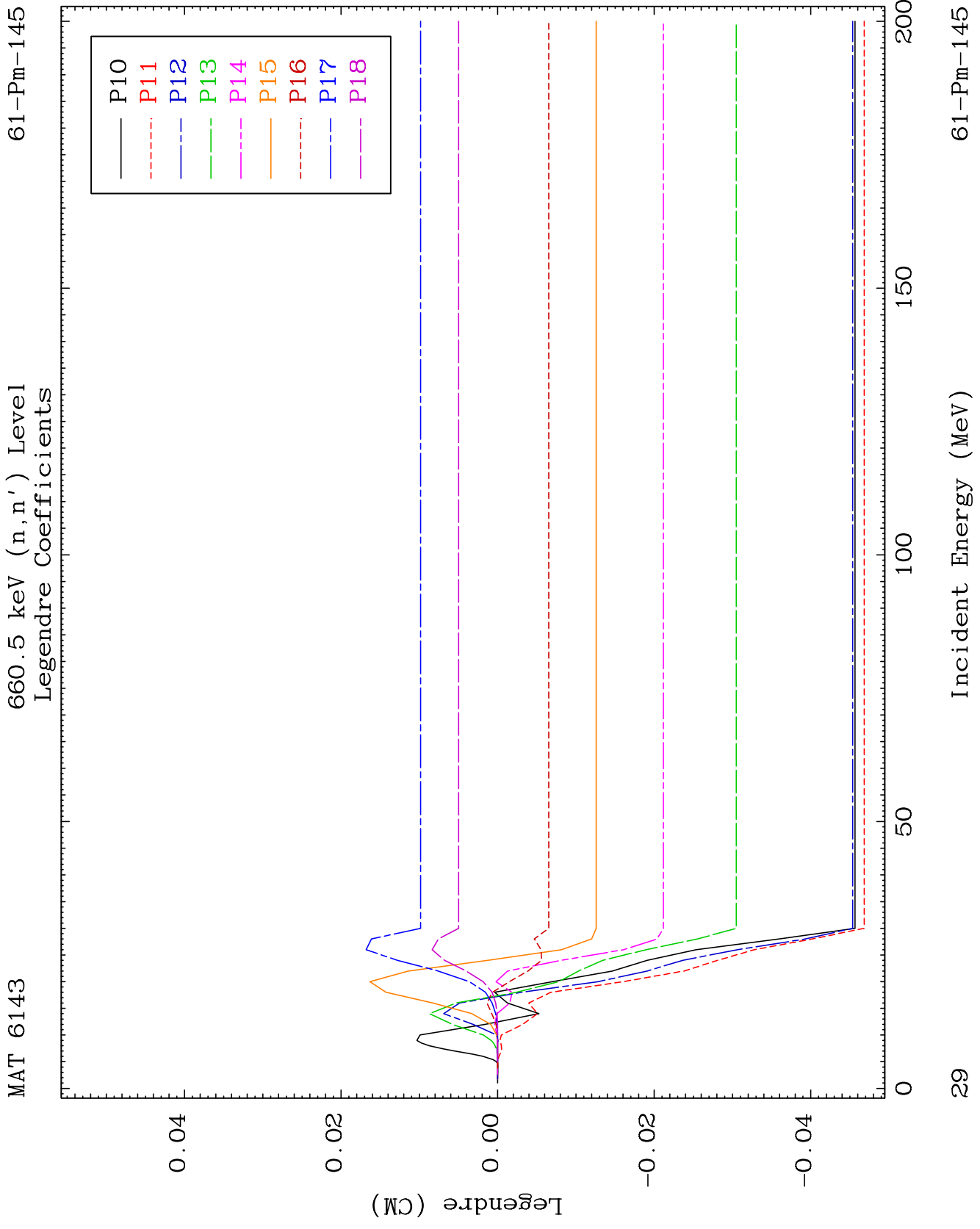
61-Pm-145



61-Pm-145

Incident Energy (MeV)

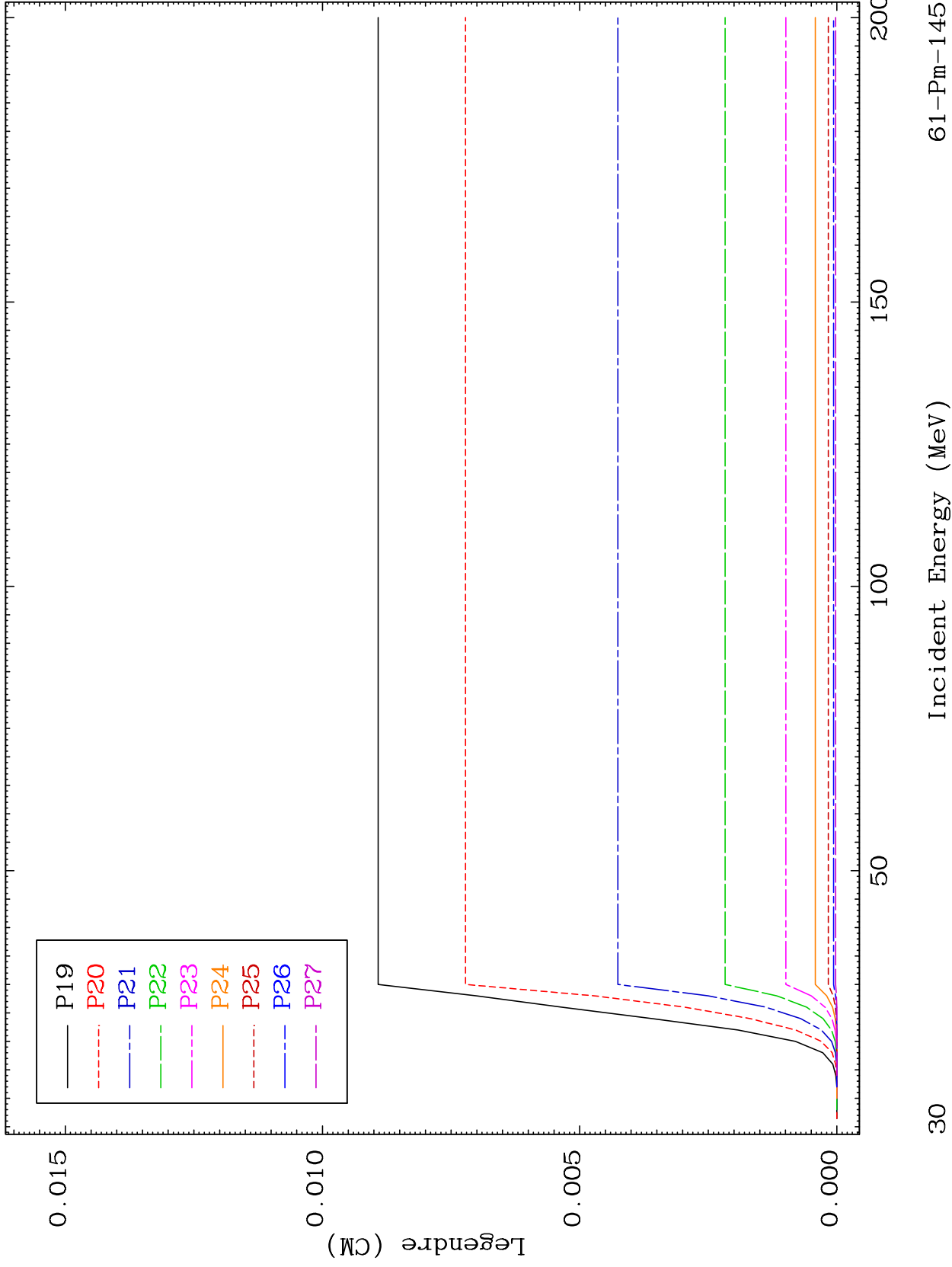
28



MAT 6143

660.5 keV (n,n') Level  
Legendre Coefficients

61-Pm-145



61-Pm-145

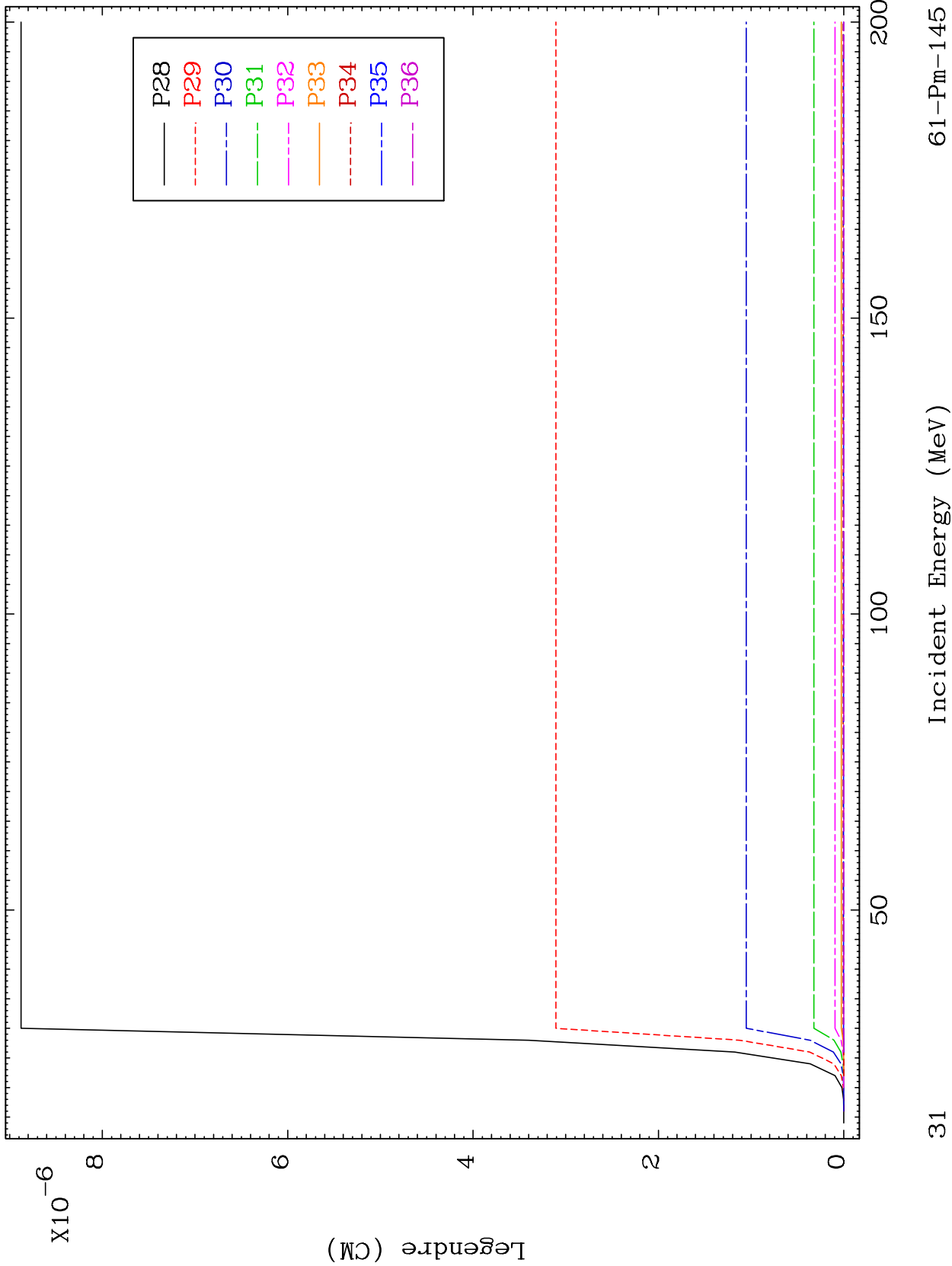
Incident Energy (MeV)

30

MAT 6143

660.5 keV (n,n') Level  
Legendre Coefficients

61-Pm-145



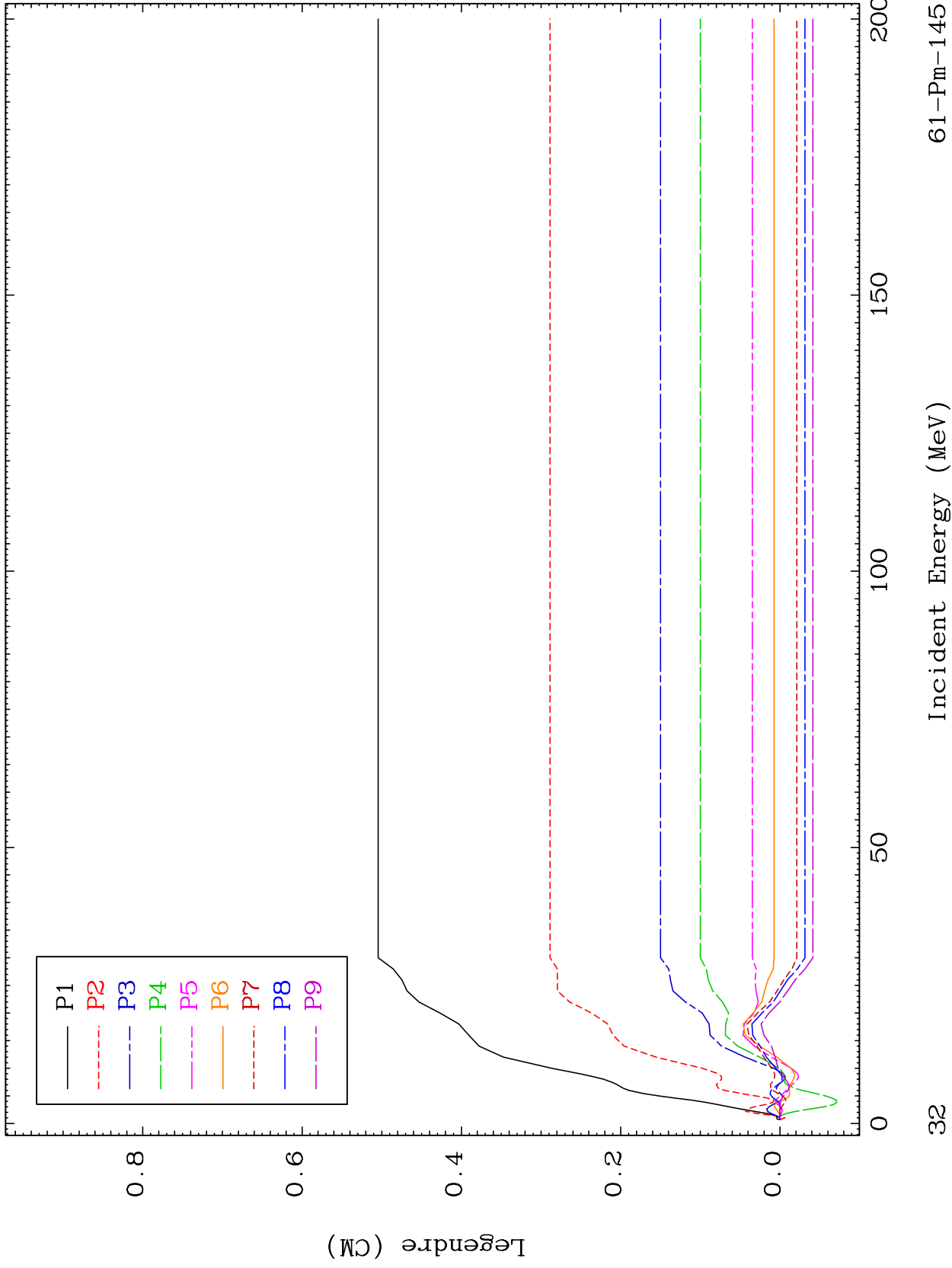
31



MAT 6143

669.7 keV (n,n') Level  
Legendre Coefficients

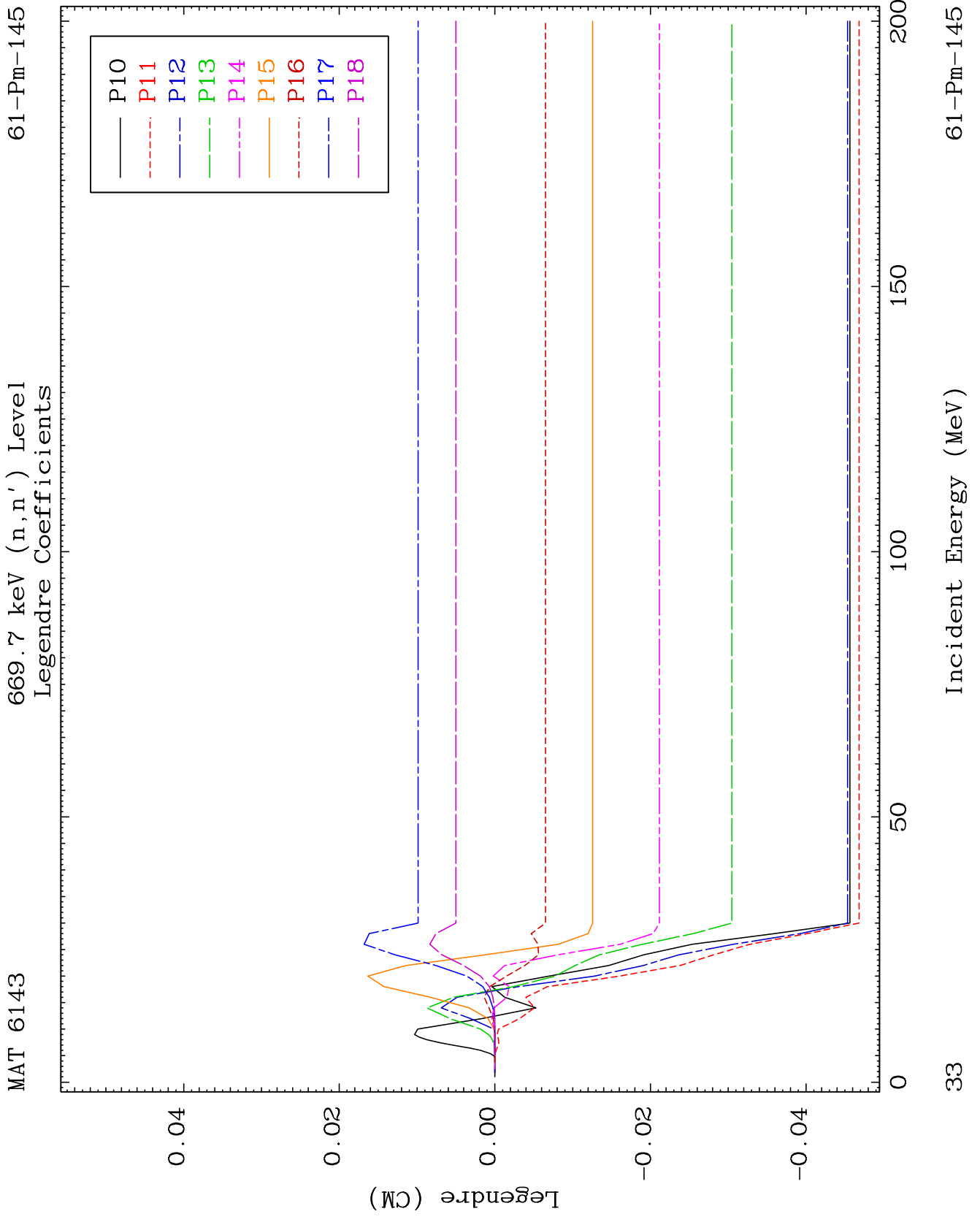
61-Pm-145



32

Incident Energy (MeV)

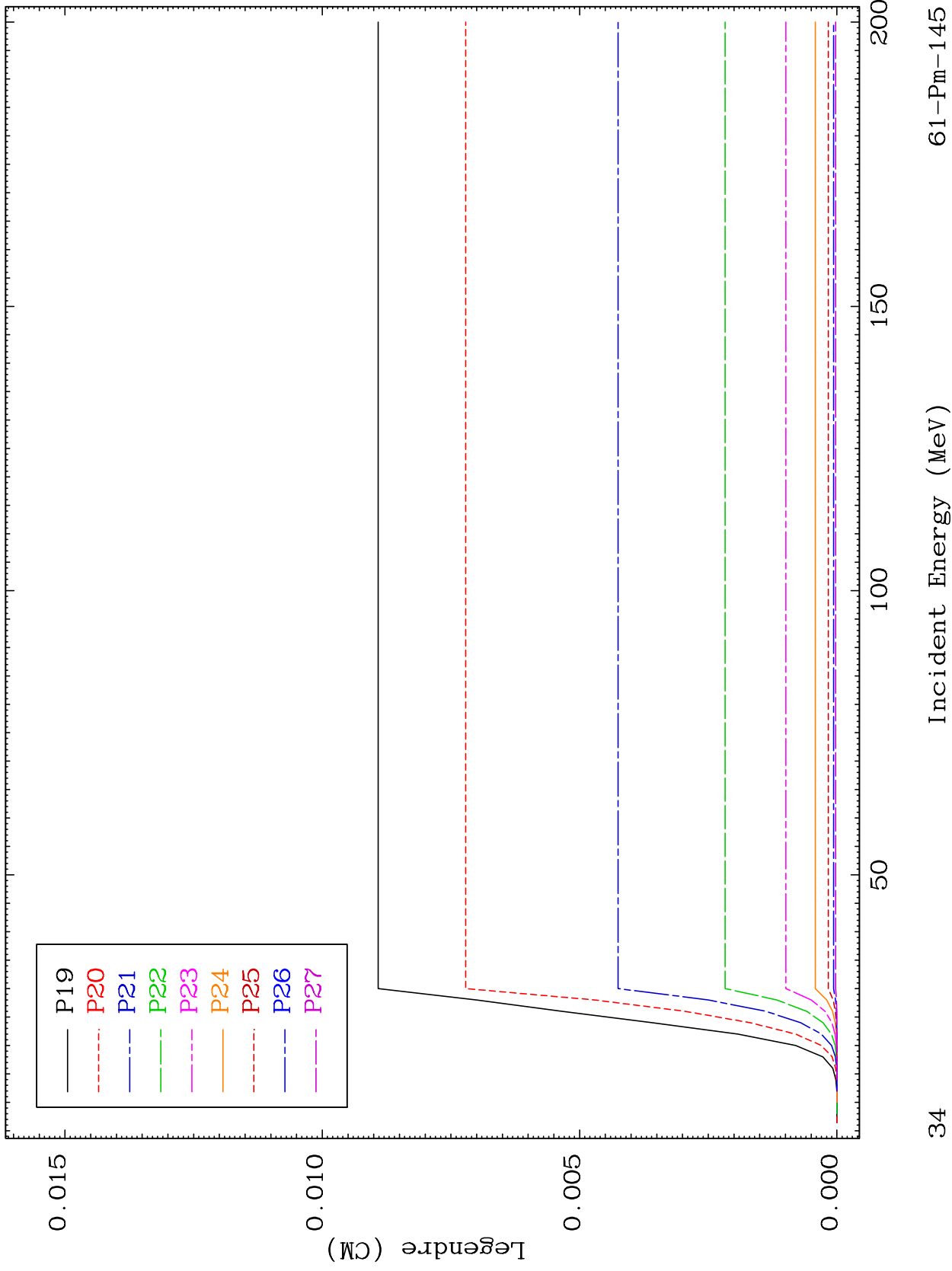
61-Pm-145



MAT 6143

669.7 keV (n,n') Level  
Legendre Coefficients

61-Pm-145



34

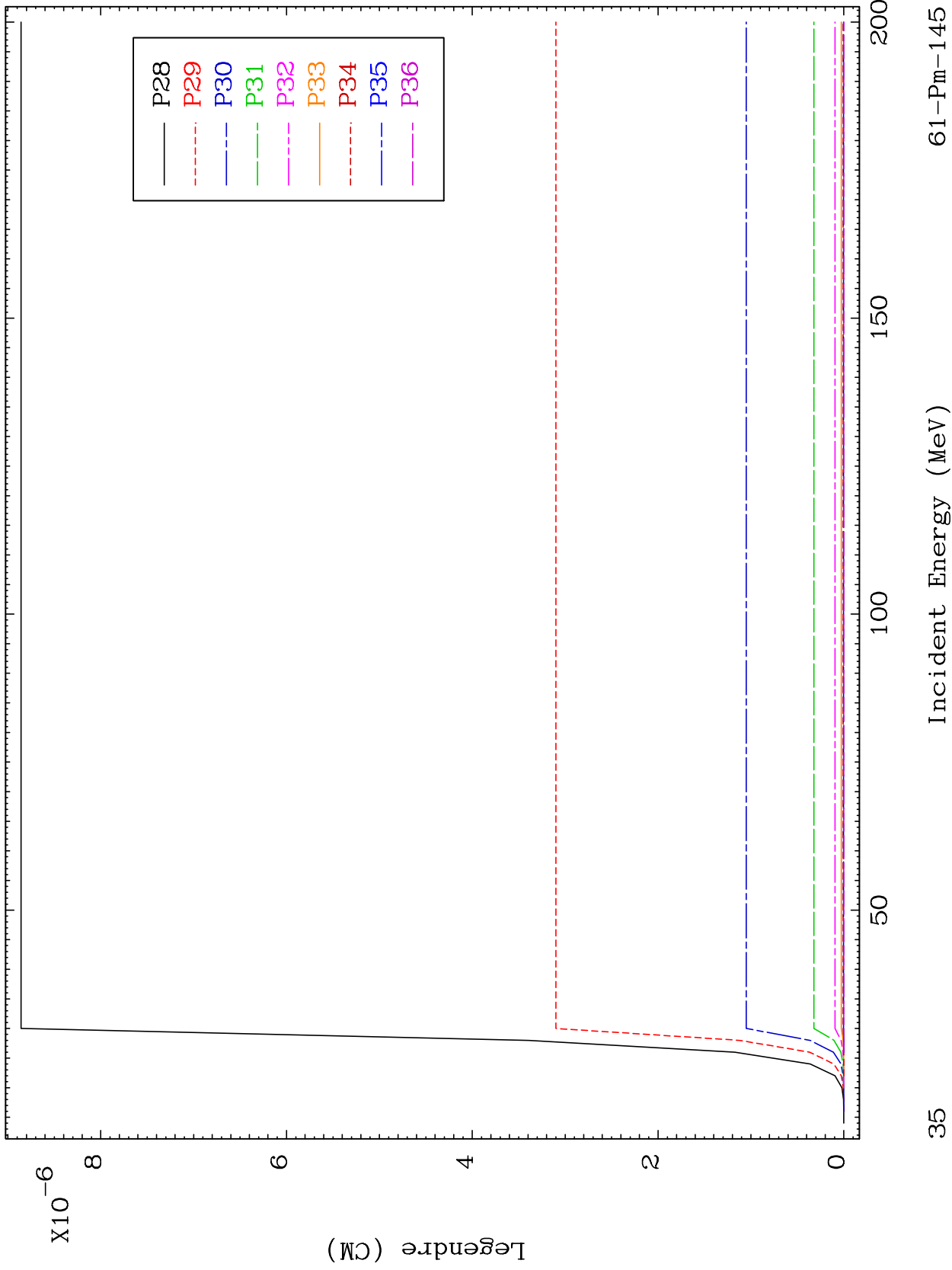
Incident Energy (MeV)

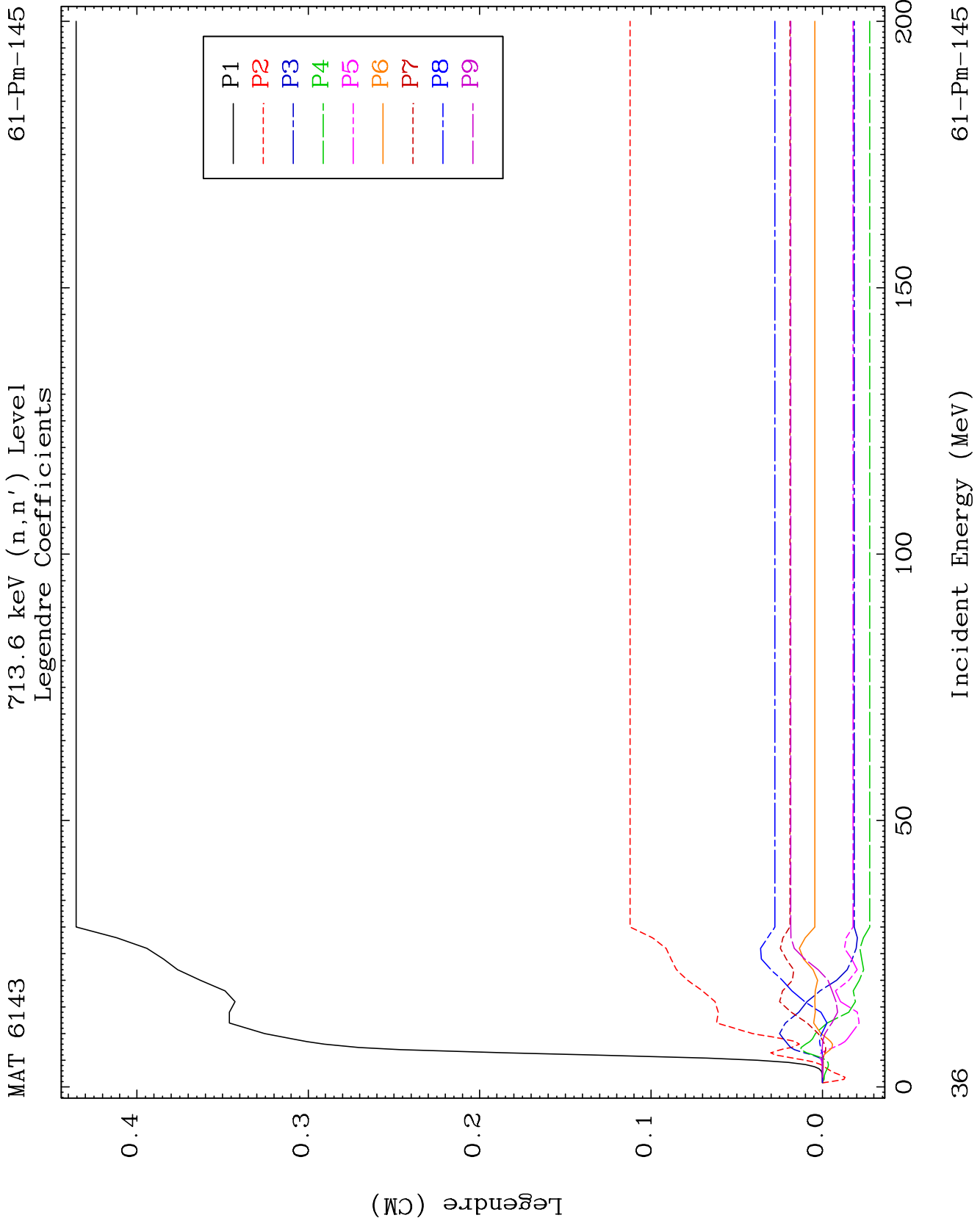
61-Pm-145

MAT 6143

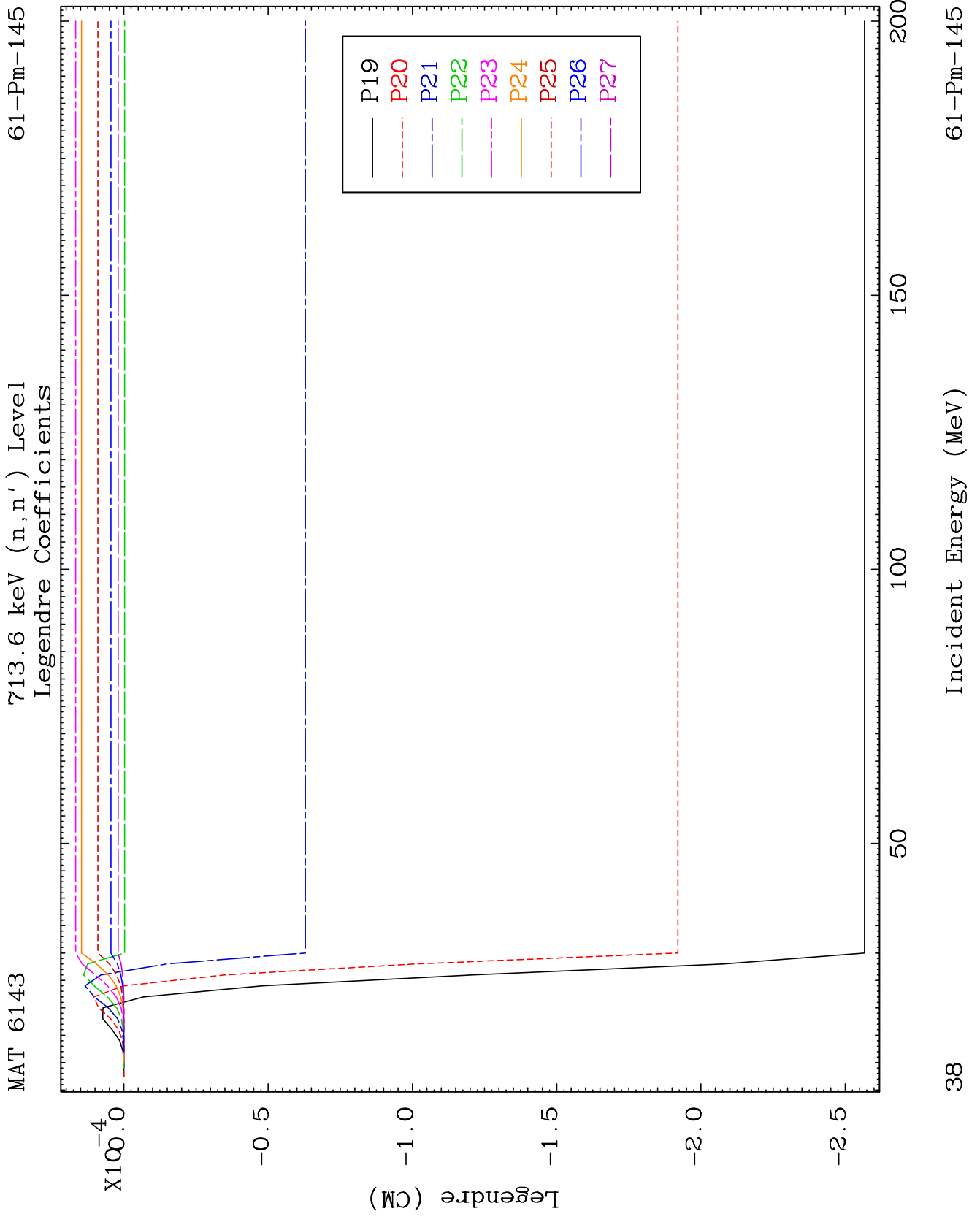
669.7 keV (n,n') Level  
Legendre Coefficients

61-Pm-145





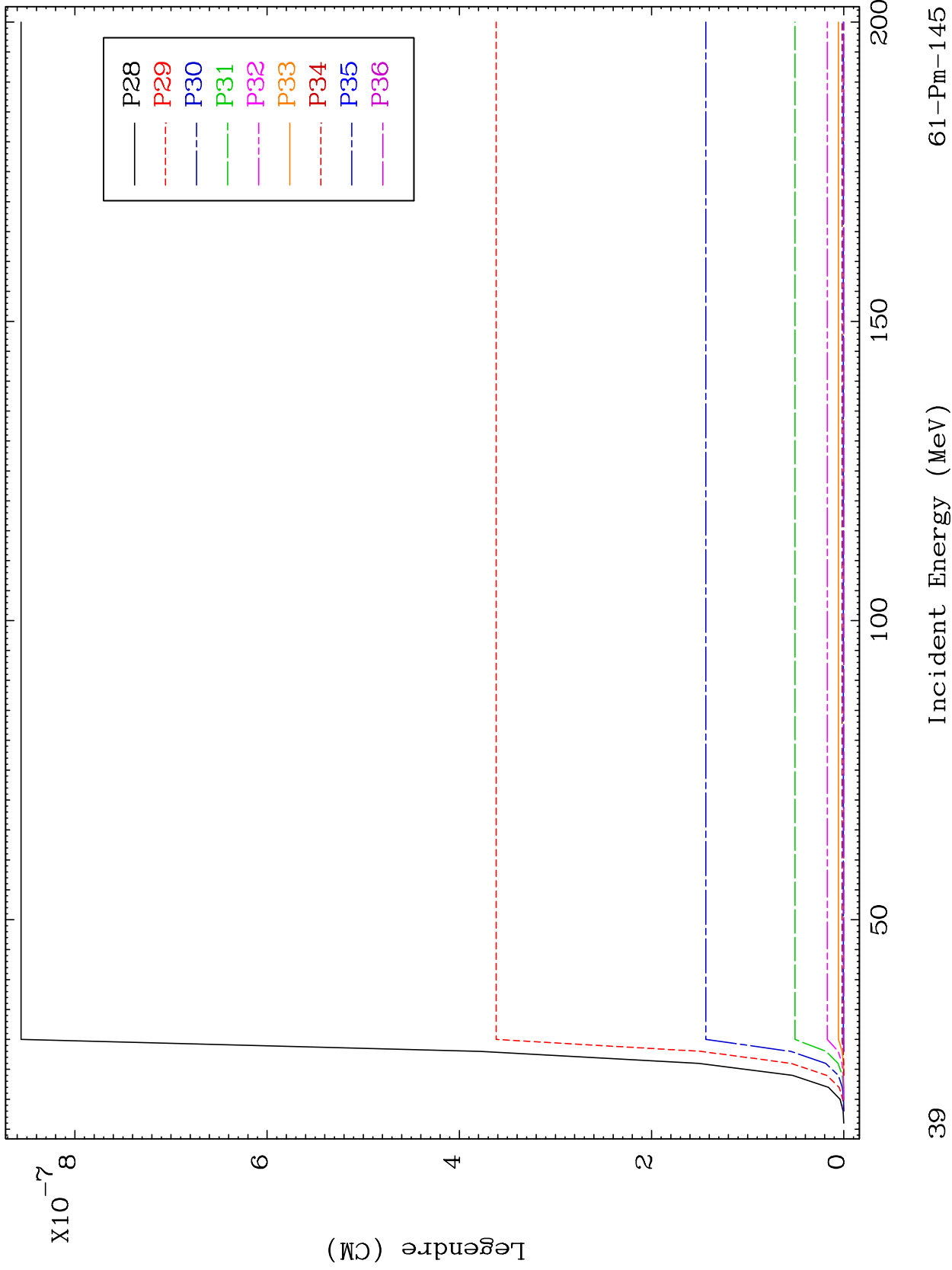




MAT 6143

713.6 keV (n,n') Level  
Legendre Coefficients

61-Pm-145



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Incident Energy (MeV)

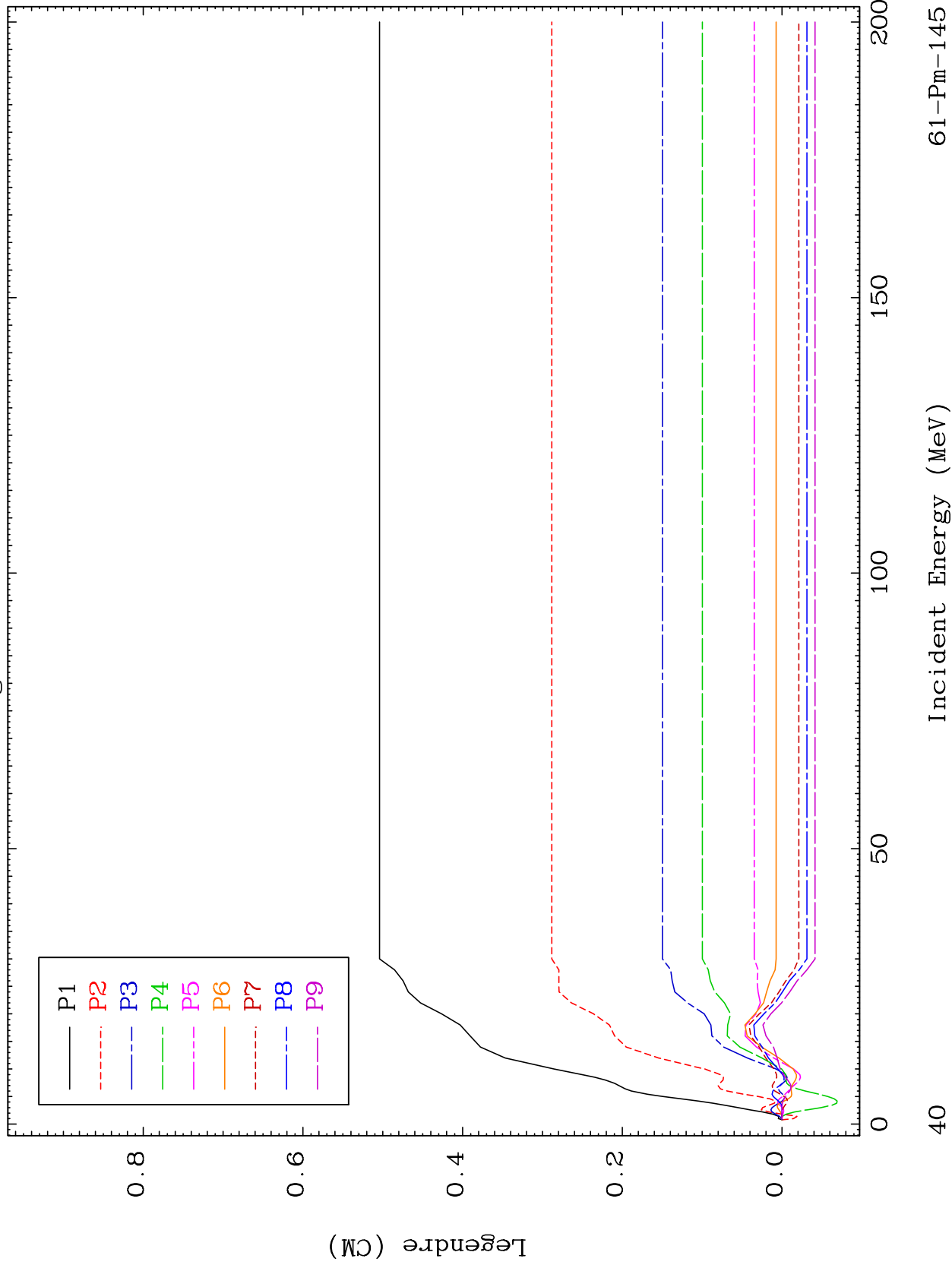
61-Pm-145



MAT 6143

726.5 keV (n,n') Level  
Legendre Coefficients

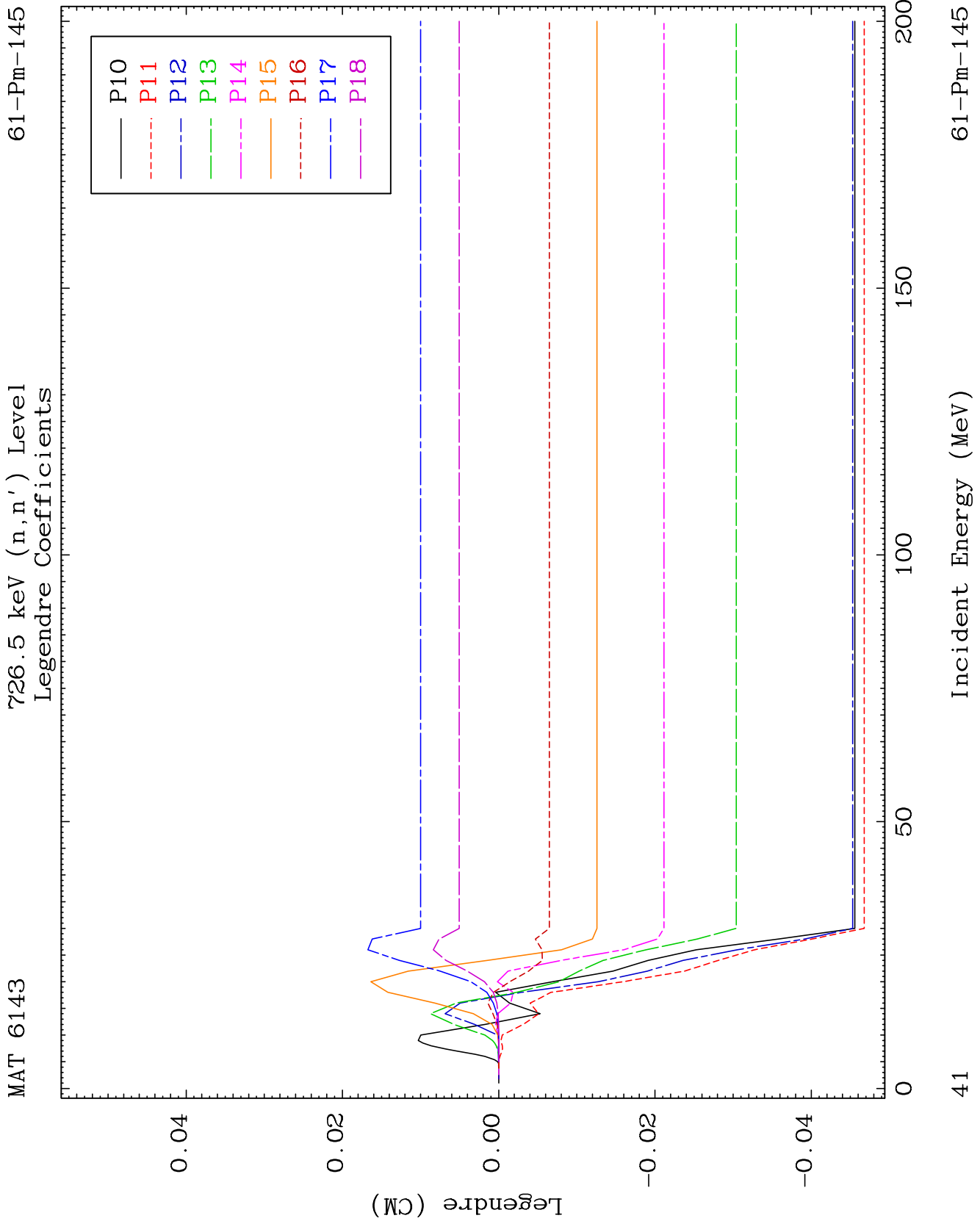
61-Pm-145



61-Pm-145

Incident Energy (MeV)

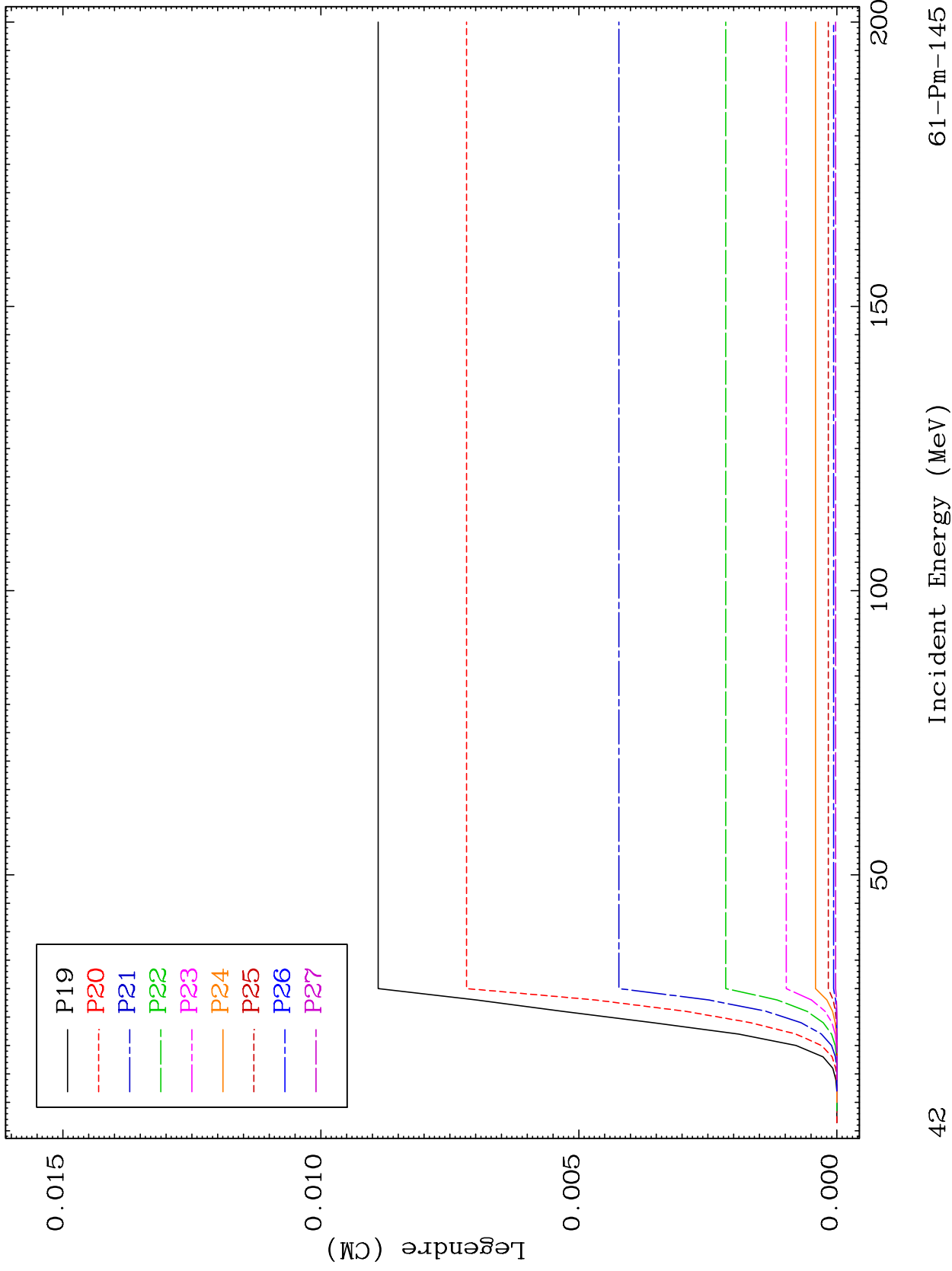
40



MAT 6143

726.5 keV (n,n') Level  
Legendre Coefficients

61-Pm-145



42

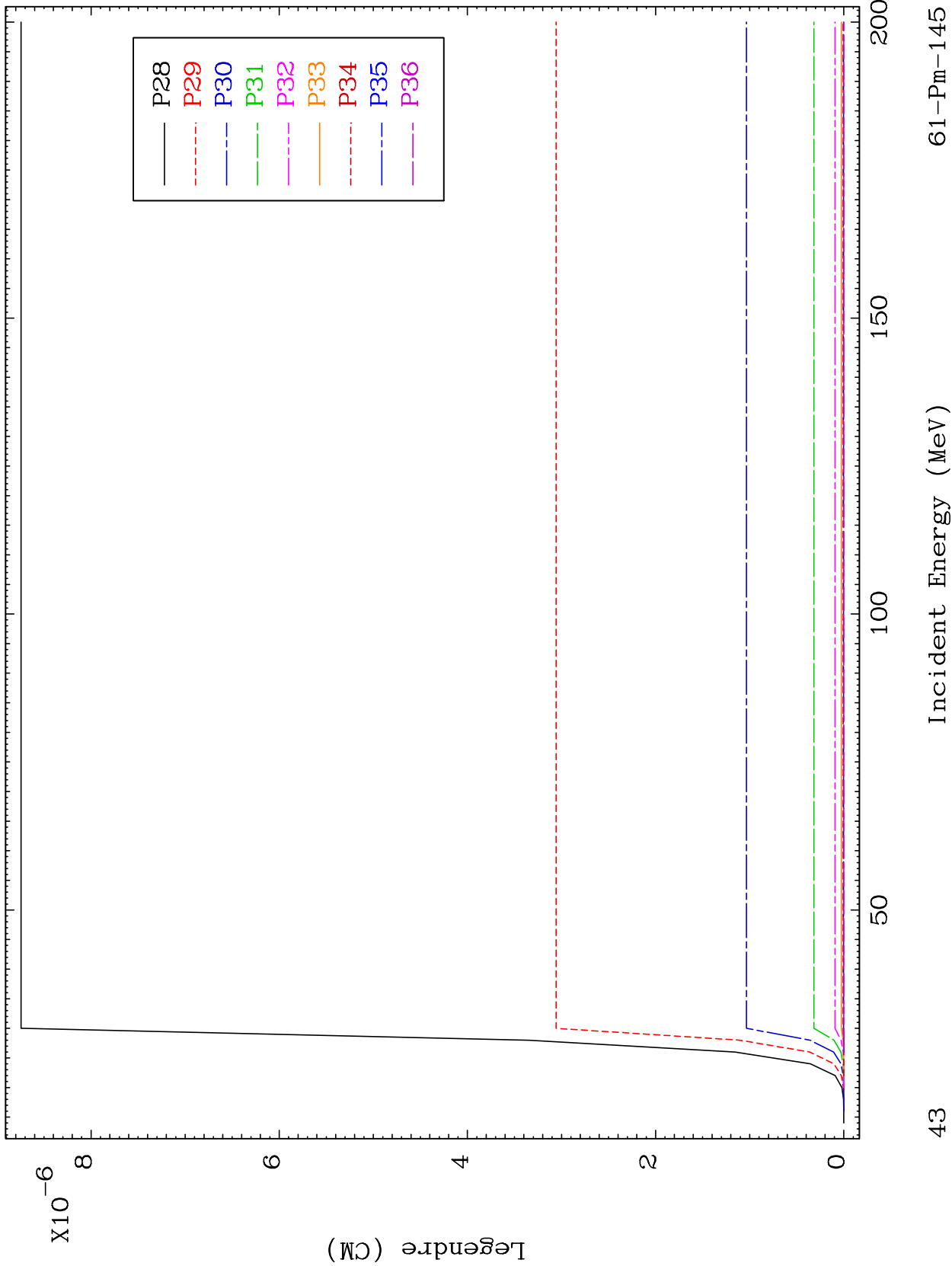
Incident Energy (MeV)

61-Pm-145

MAT 6143

726.5 keV (n,n') Level  
Legendre Coefficients

61-Pm-145



43

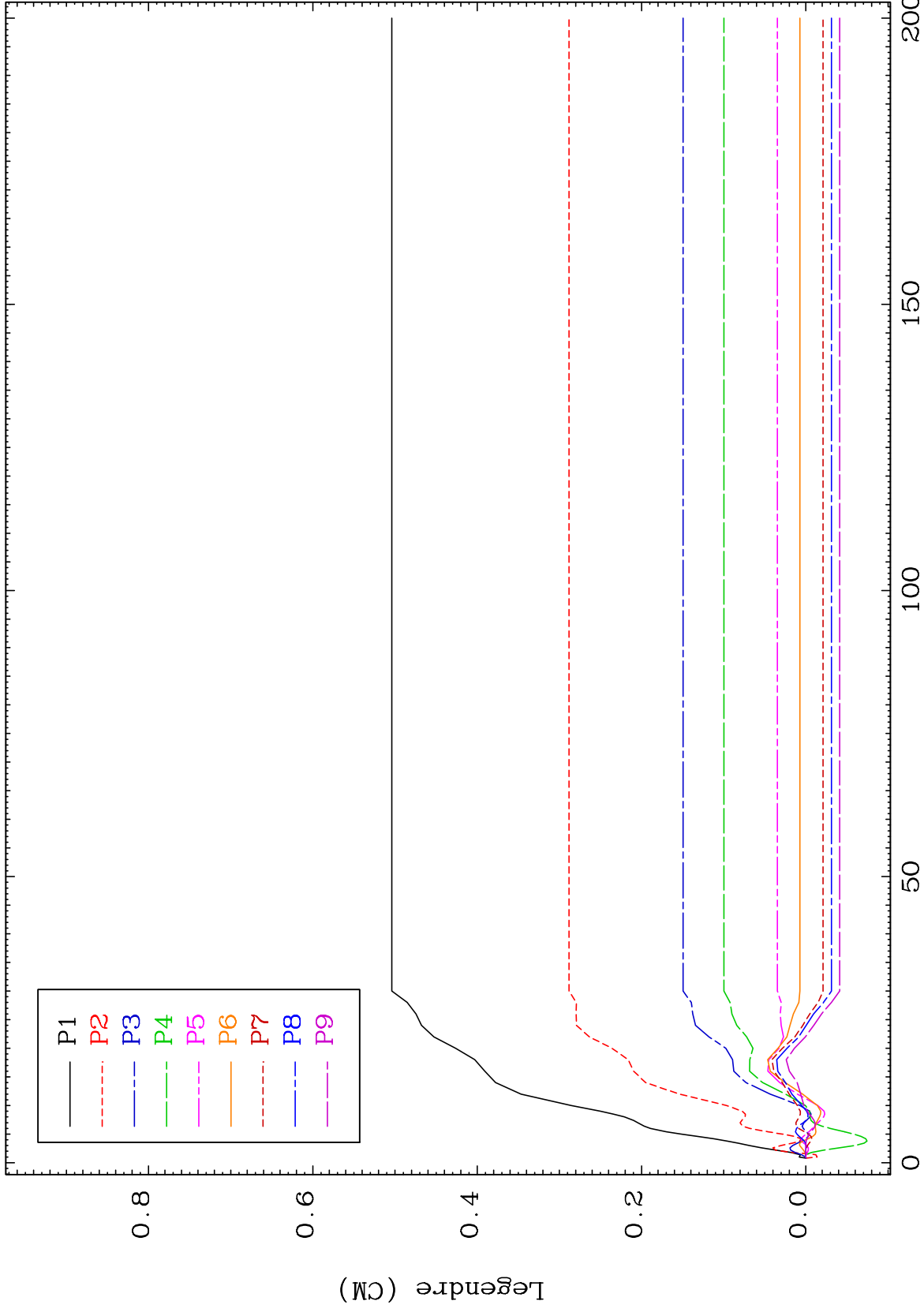
Incident Energy (MeV)

61-Pm-145

MAT 6143

750.4 keV (n,n') Level  
Legendre Coefficients

61-Pm-145



44

Incident Energy (MeV)

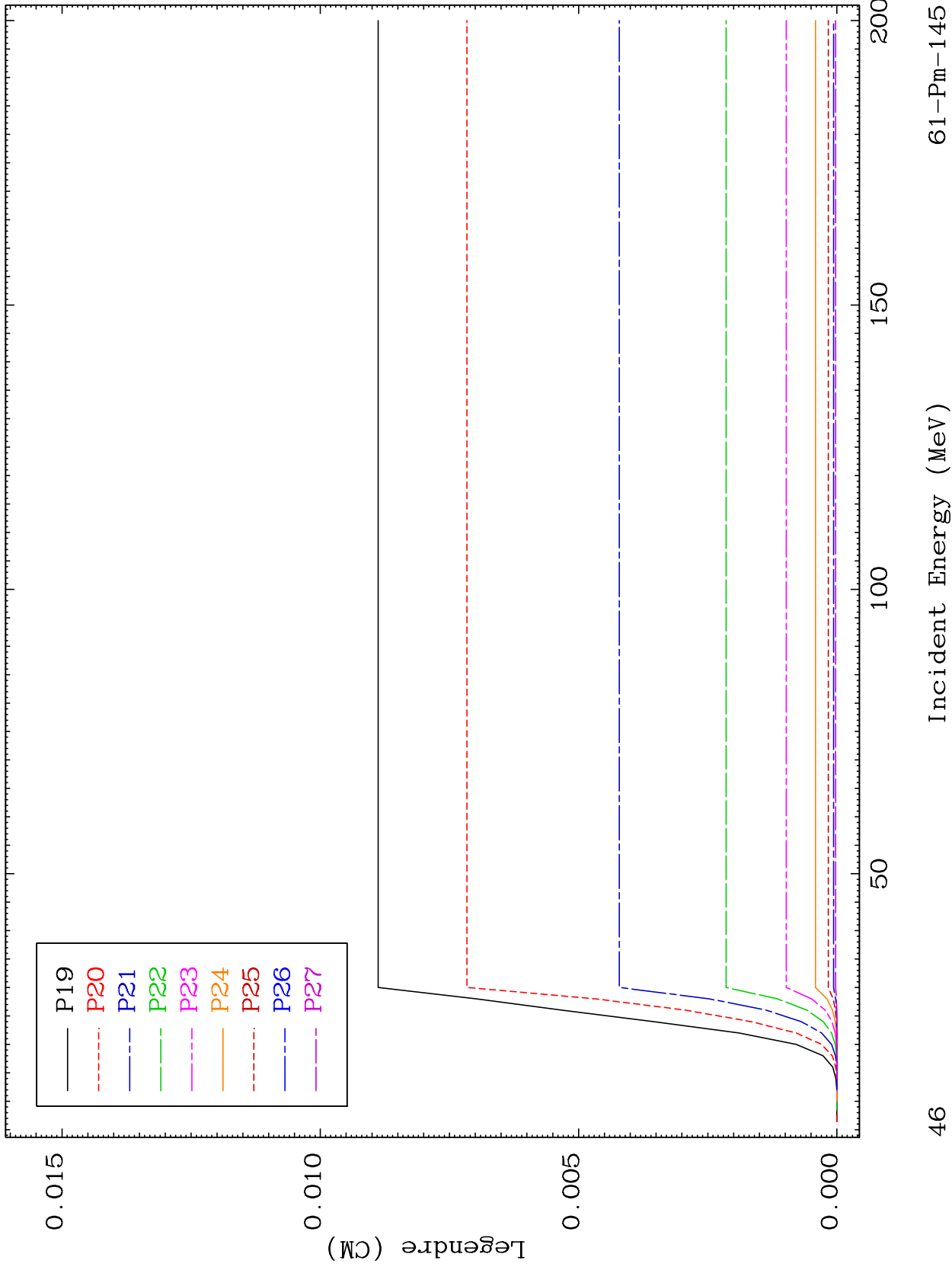
61-Pm-145



MAT 6143

750.4 keV (n,n') Level  
Legendre Coefficients

61-Pm-145



46

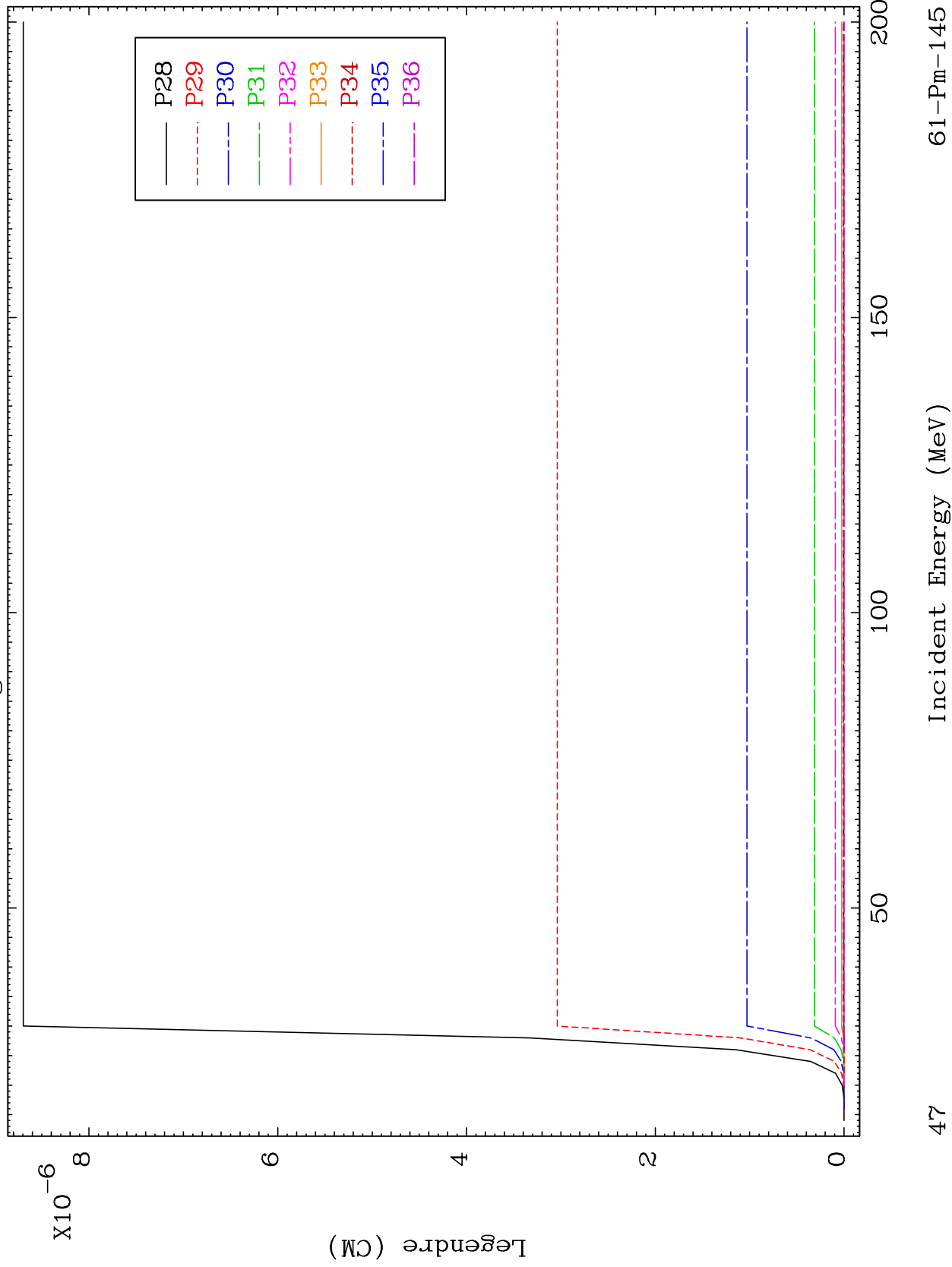
Incident Energy (MeV)

61-Pm-145

MAT 6143

750.4 keV (n,n') Level  
Legendre Coefficients

61-Pm-145



47

Incident Energy (MeV)

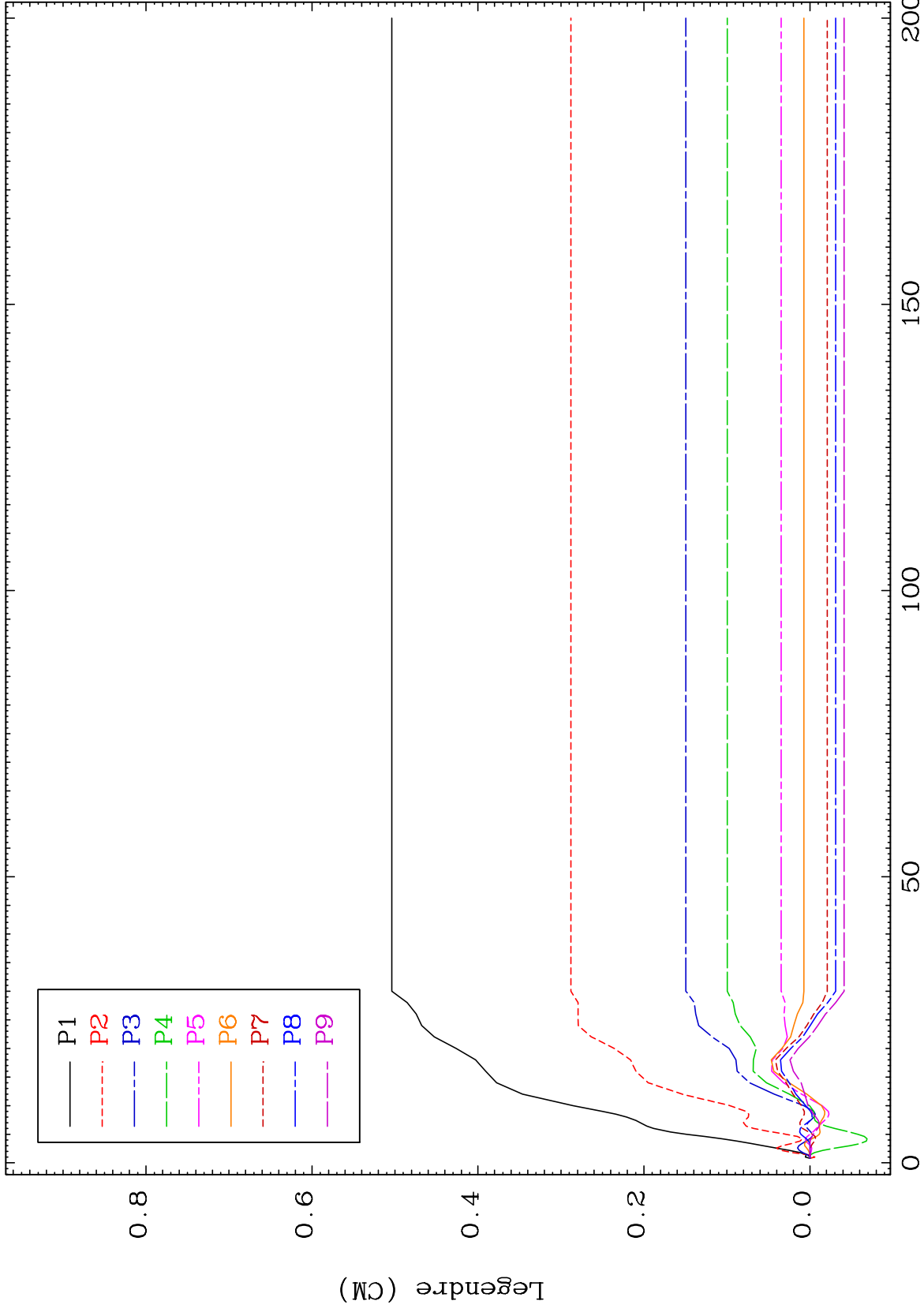
61-Pm-145



MAT 6143

773.0 keV (n,n') Level  
Legendre Coefficients

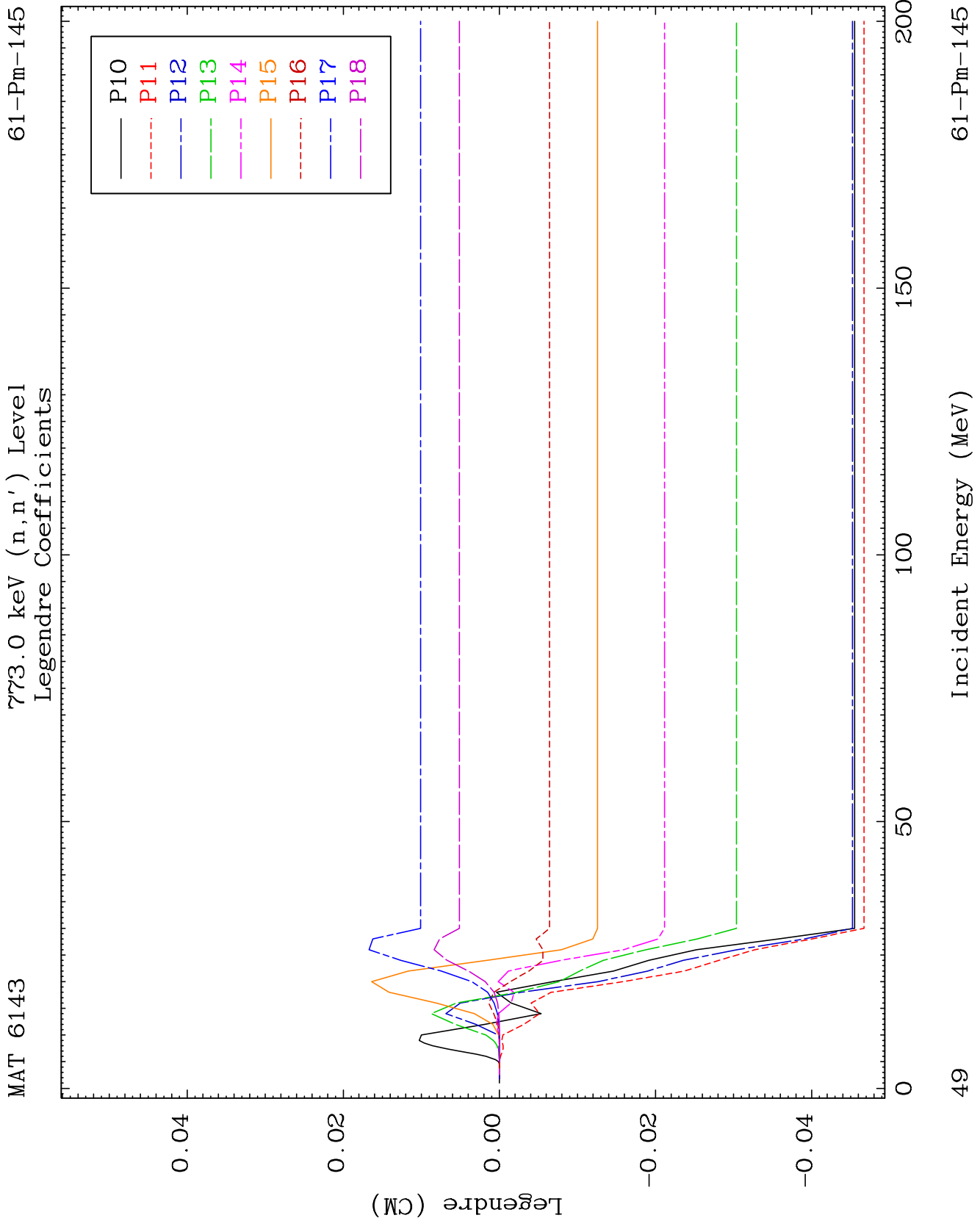
61-Pm-145



48

Incident Energy (MeV)

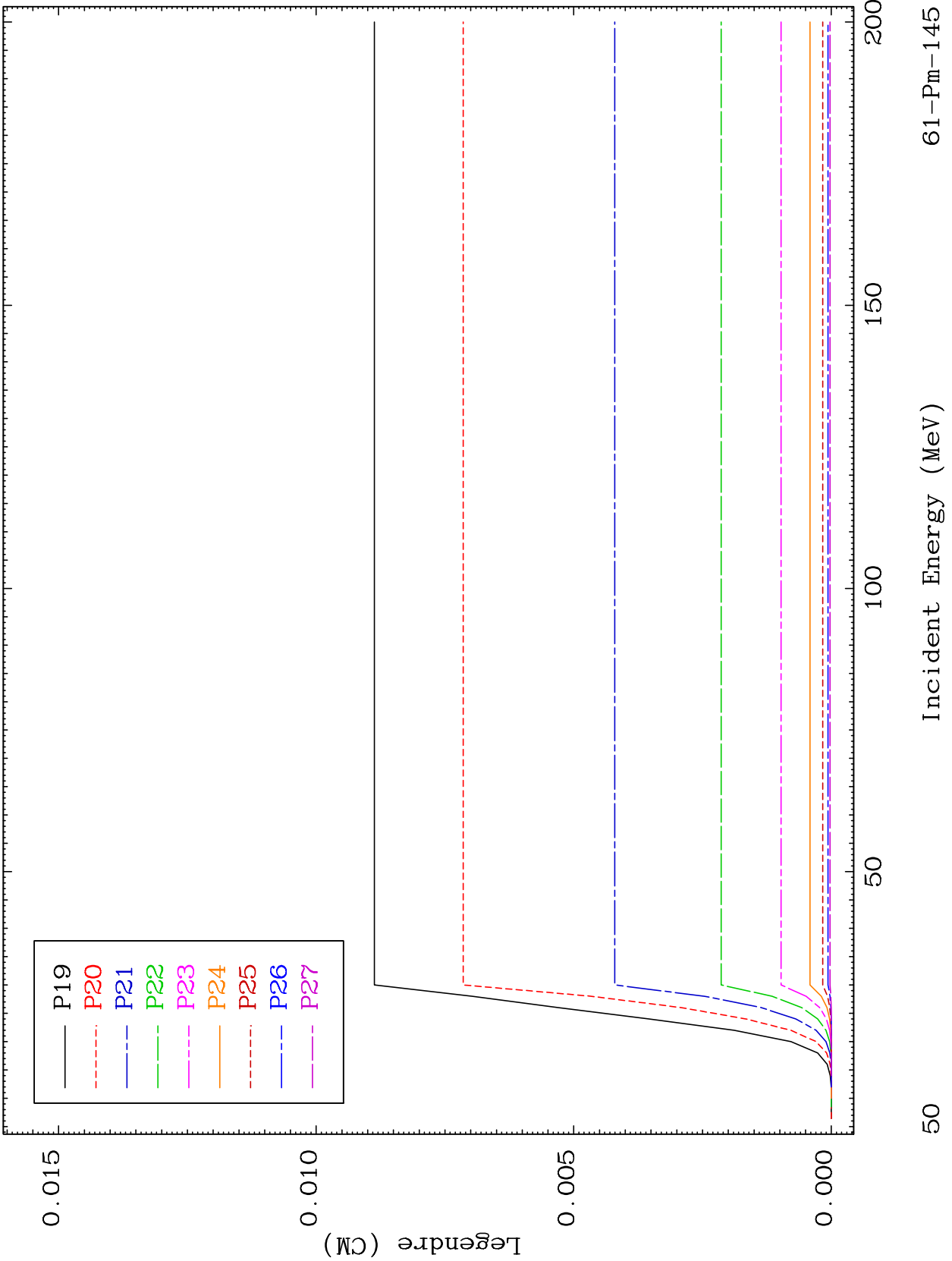
61-Pm-145



MAT 6143

773.0 keV (n,n') Level  
Legendre Coefficients

61-Pm-145



61-Pm-145

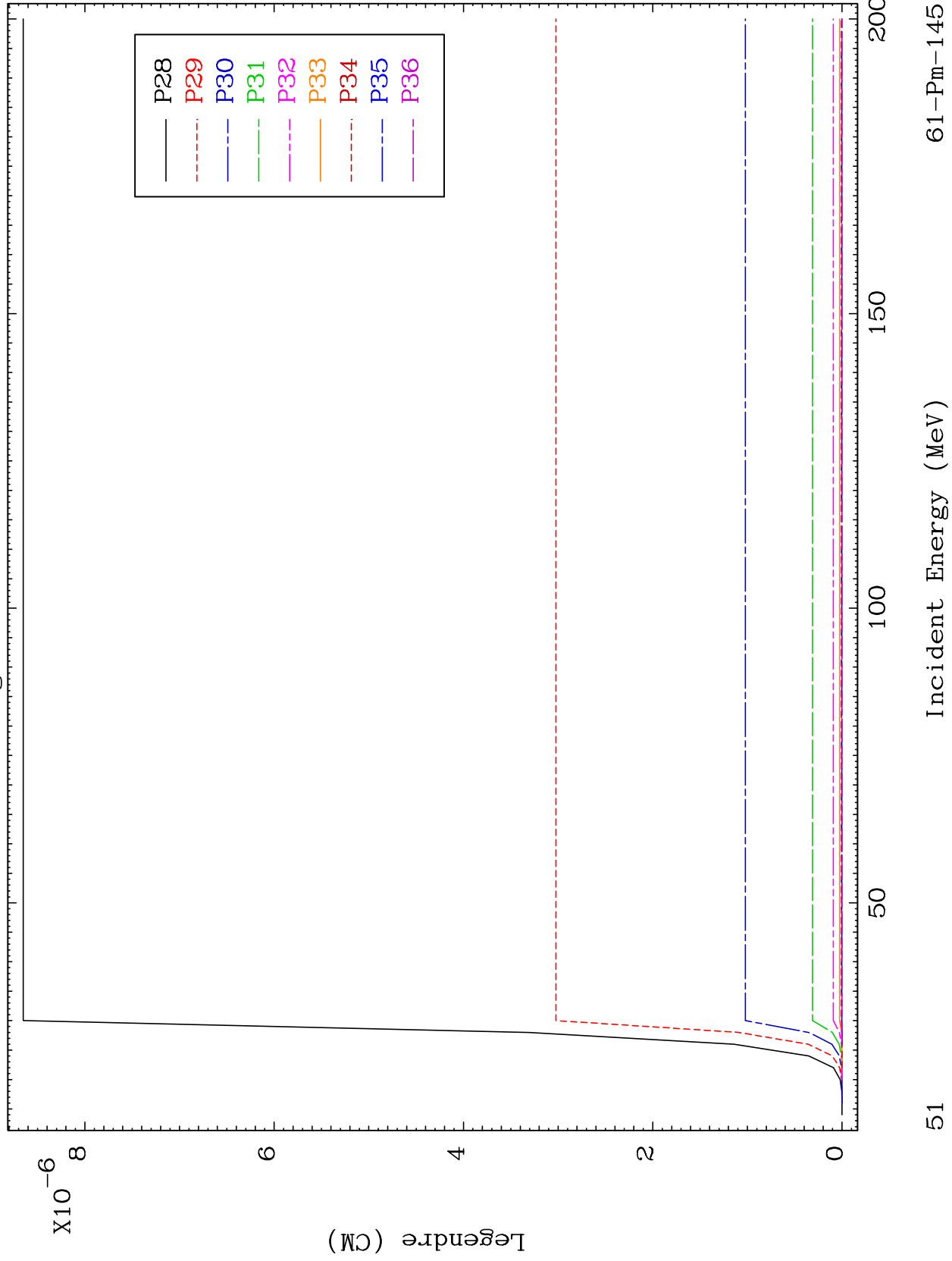
Incident Energy (MeV)

50

MAT 6143

773.0 keV (n,n') Level  
Legendre Coefficients

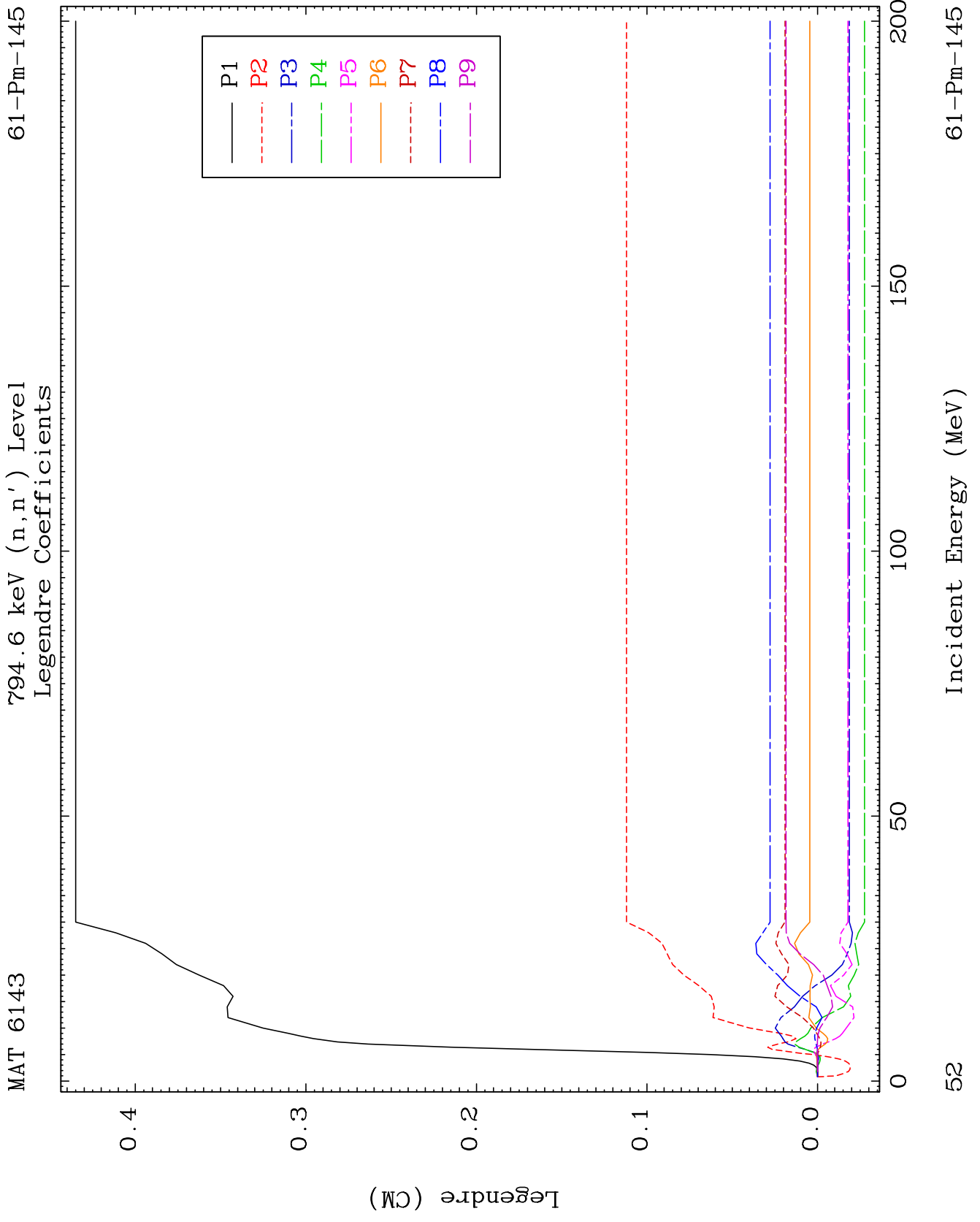
61-Pm-145



51

Incident Energy (MeV)

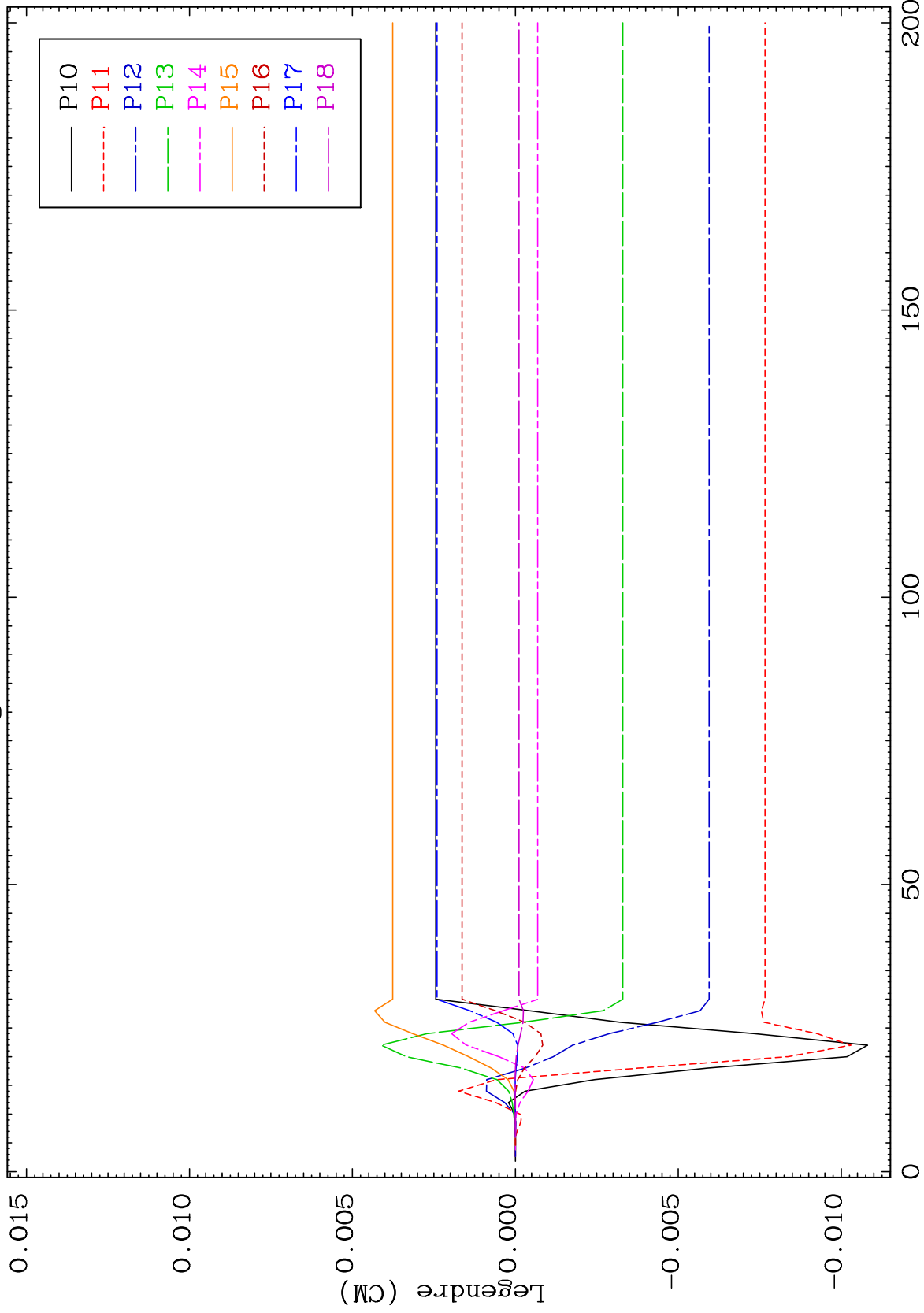
61-Pm-145



MAT 6143

794.6 keV (n,n') Level  
Legendre Coefficients

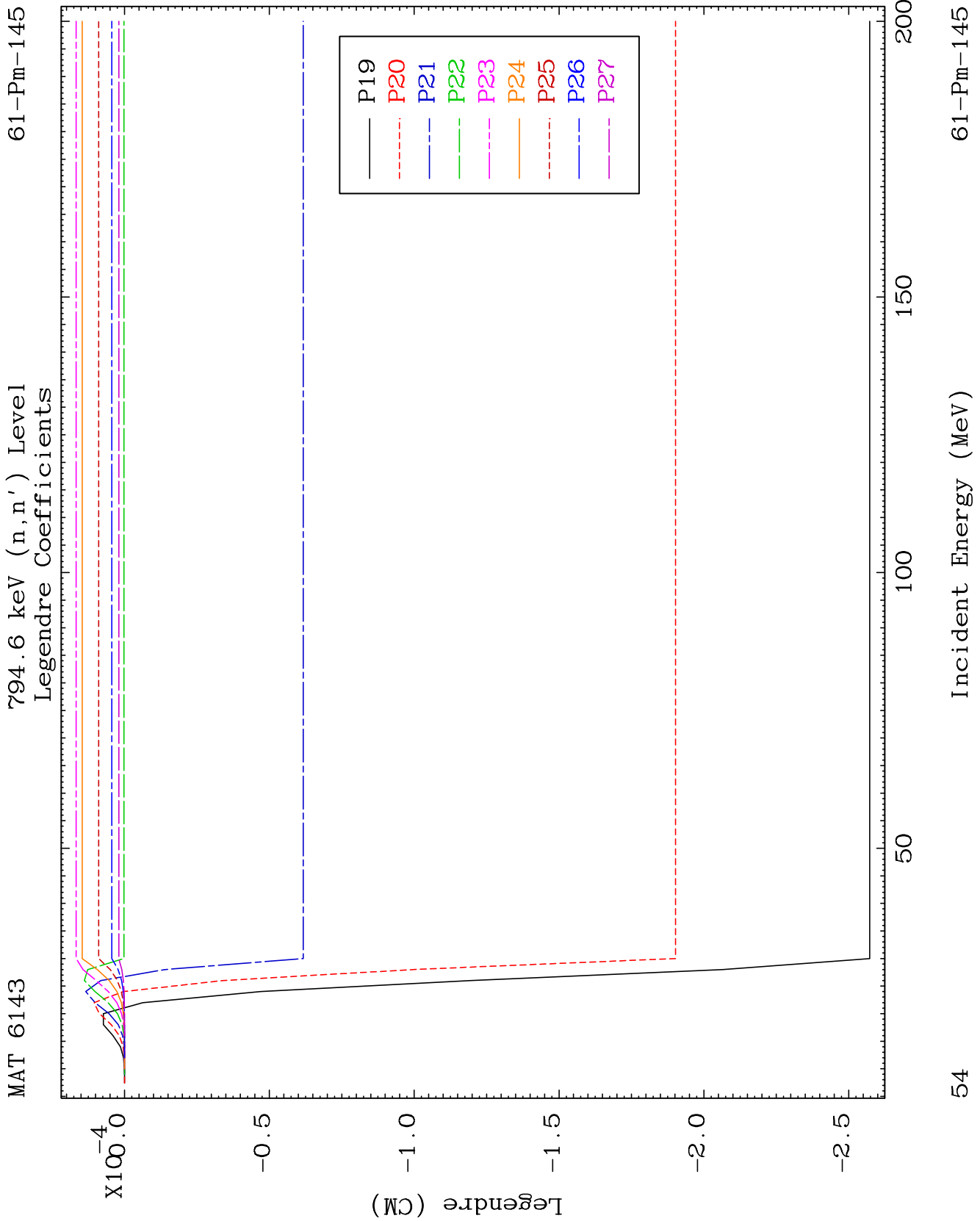
61-Pm-145

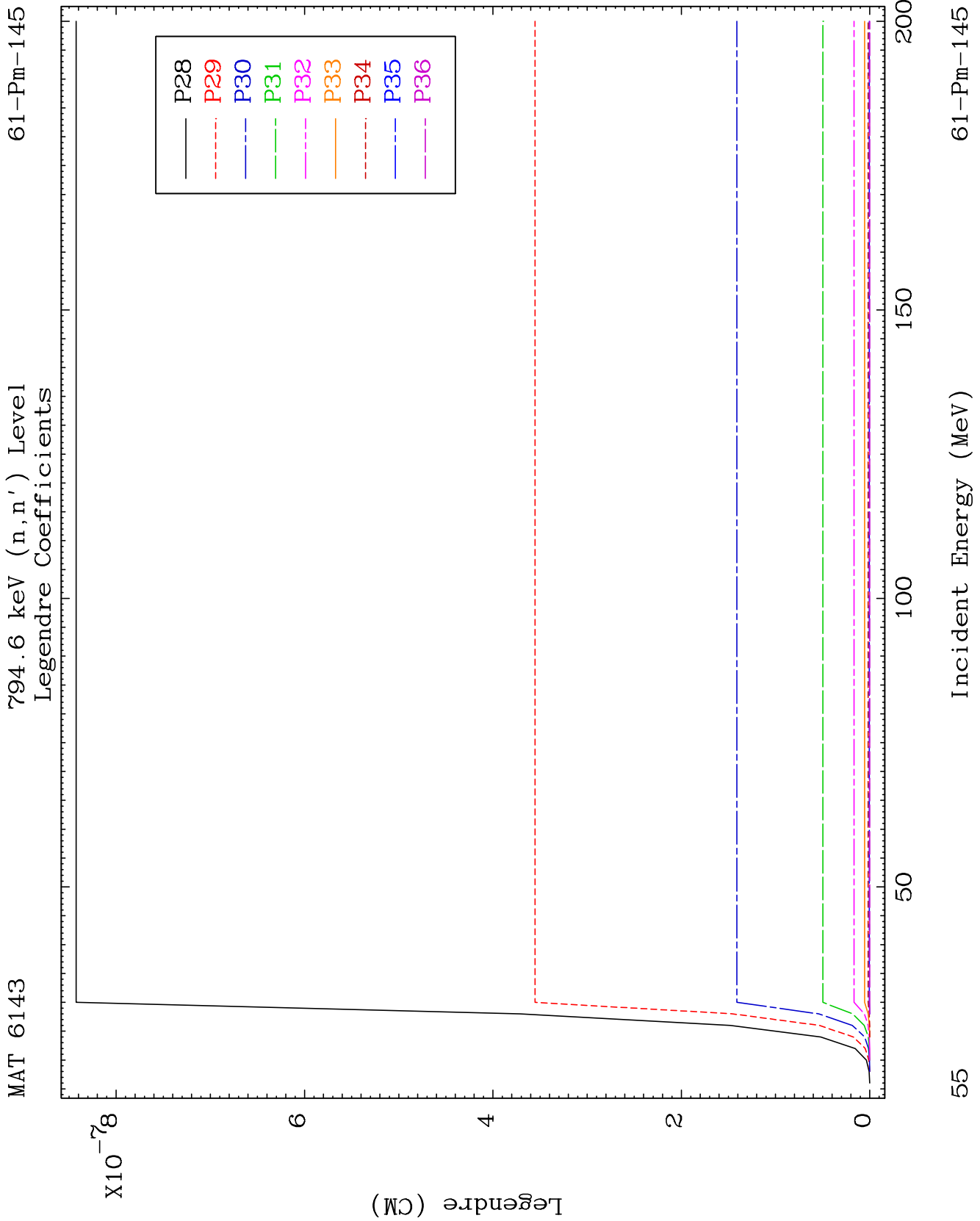


53

Incident Energy (MeV)

61-Pm-145



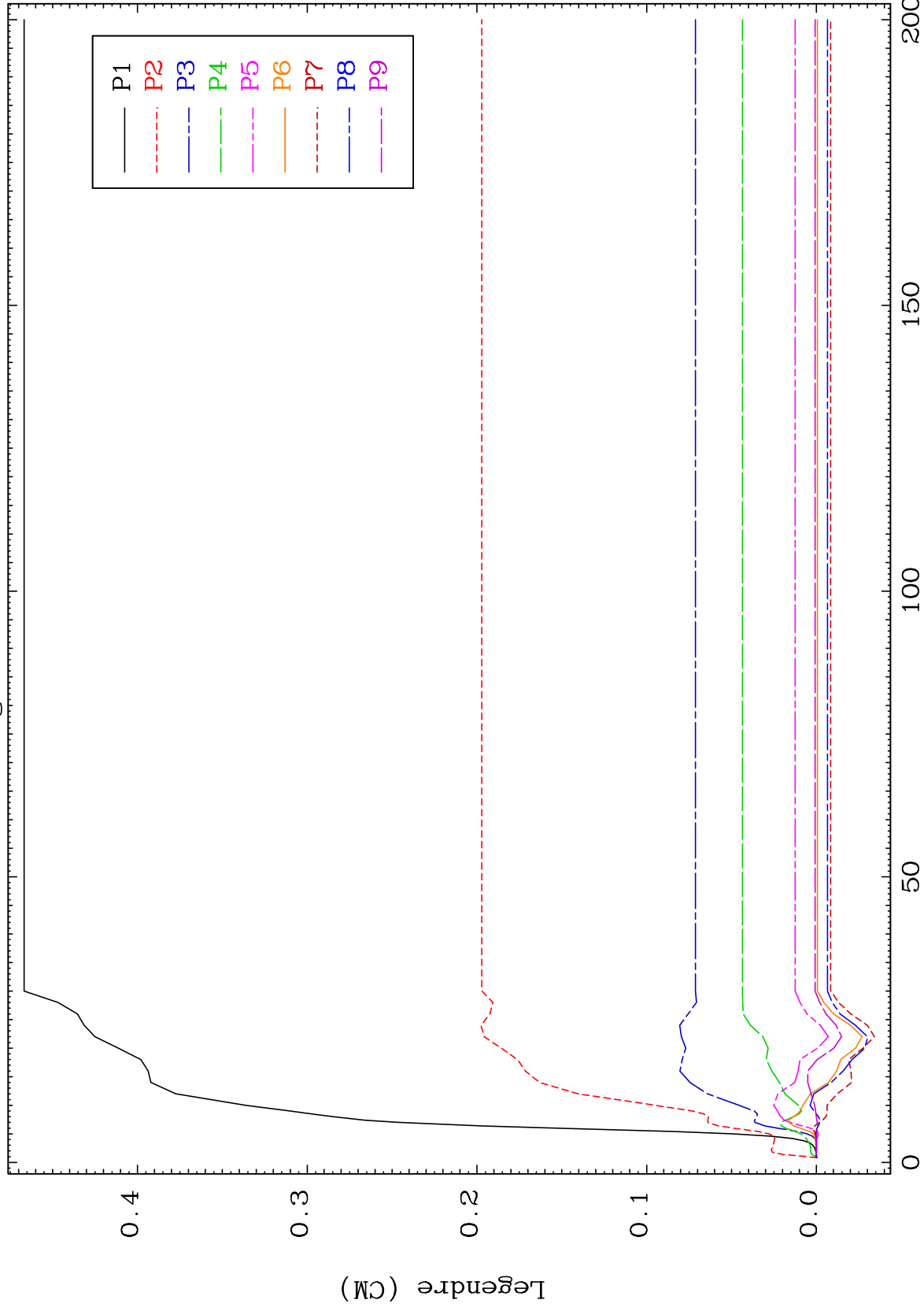




MAT 6143

823.5 keV (n,n') Level  
Legendre Coefficients

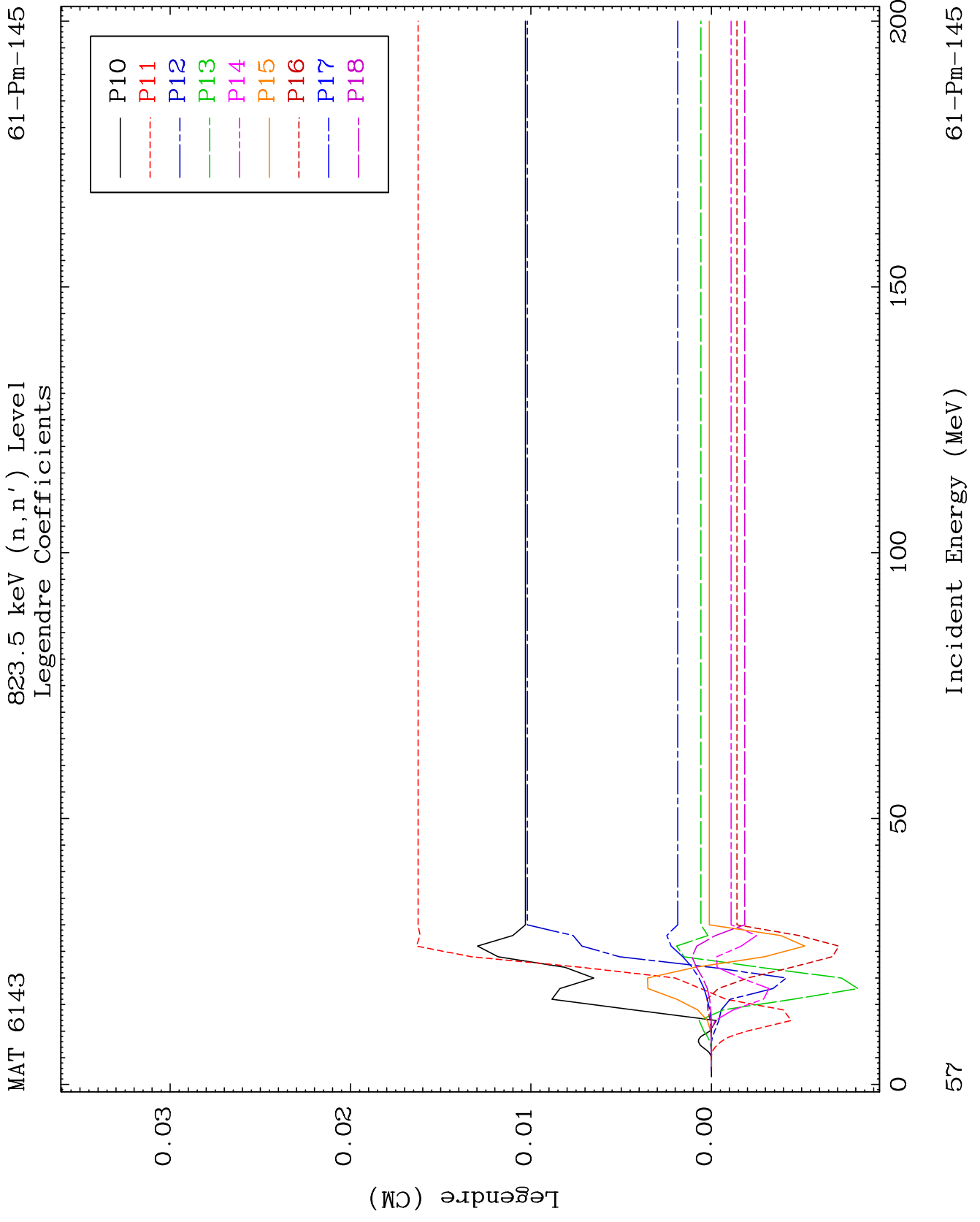
61-Pm-145



56

Incident Energy (MeV)

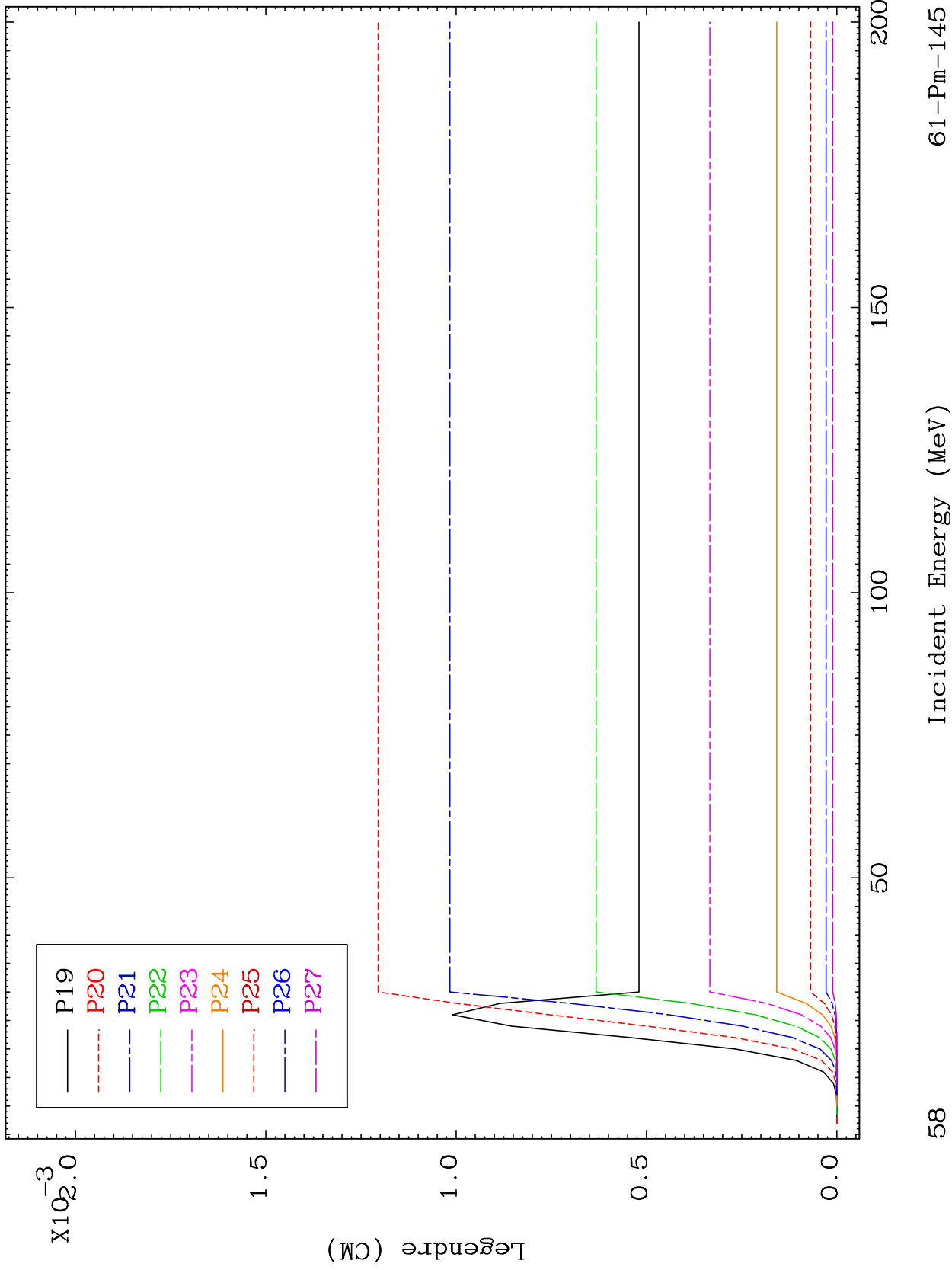
61-Pm-145



MAT 6143

823.5 keV (n,n') Level  
Legendre Coefficients

61-Pm-145



58

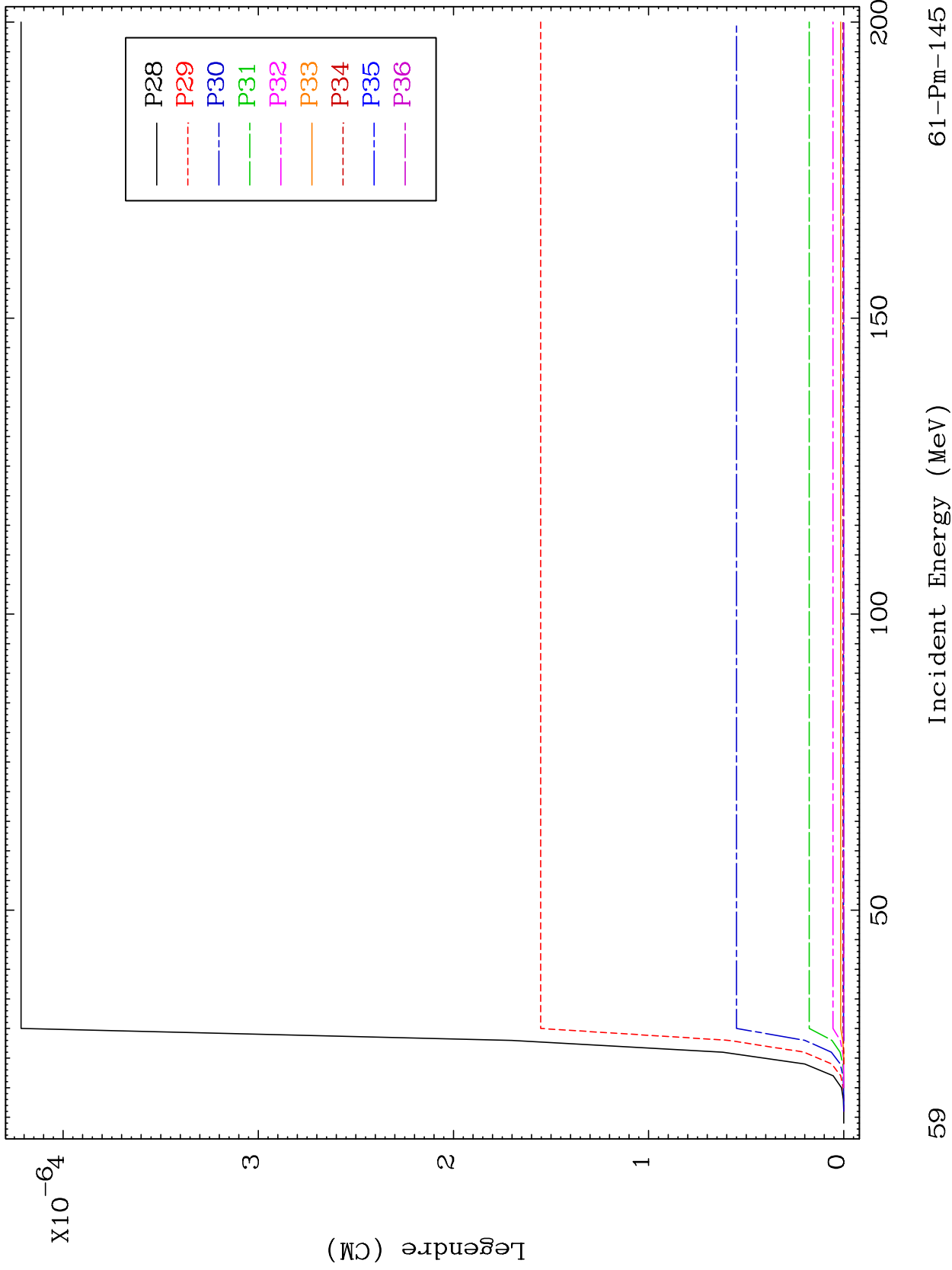
Incident Energy (MeV)

61-Pm-145

MAT 6143

823.5 keV (n,n') Level  
Legendre Coefficients

61-Pm-145

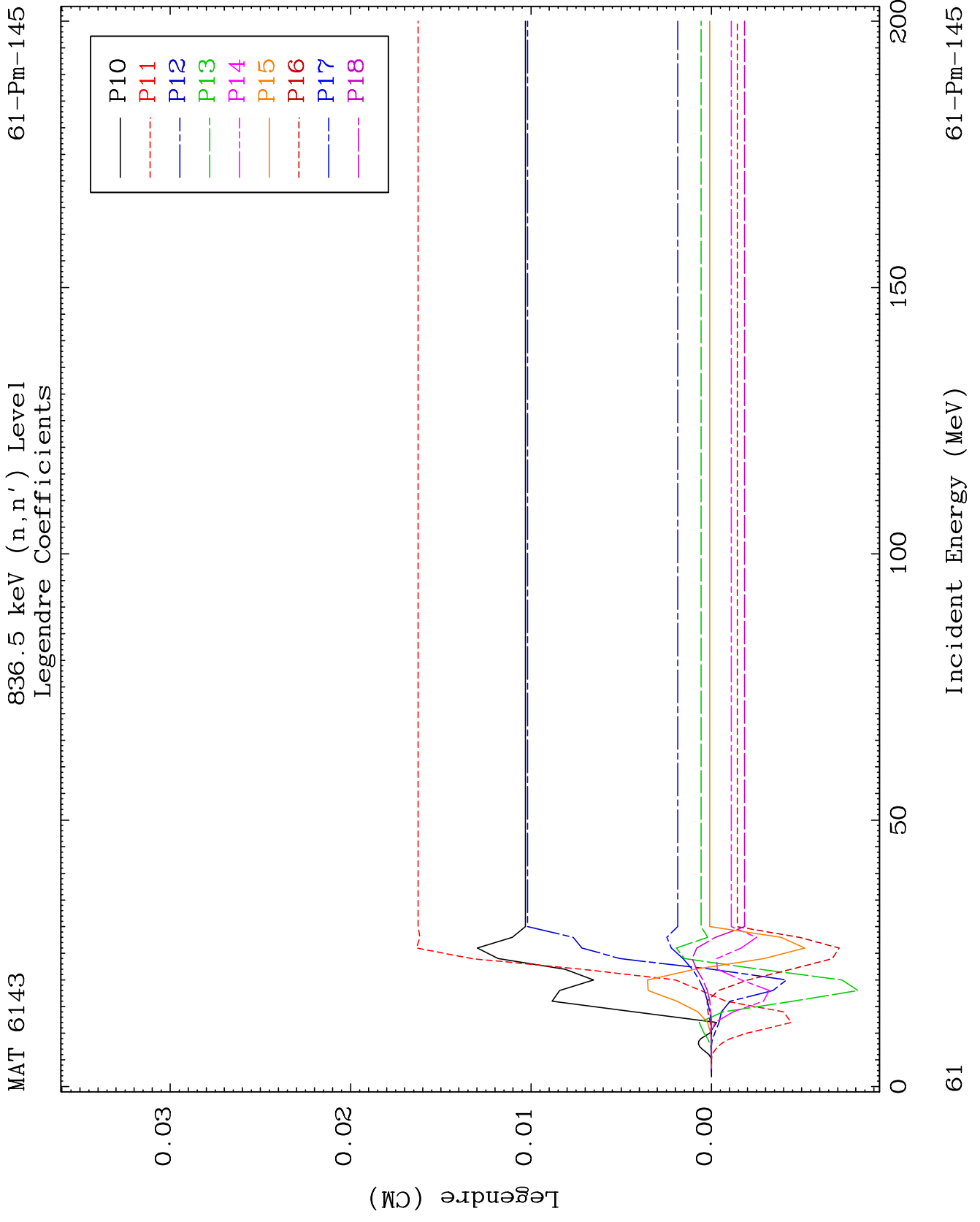


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Incident Energy (MeV)

61-Pm-145

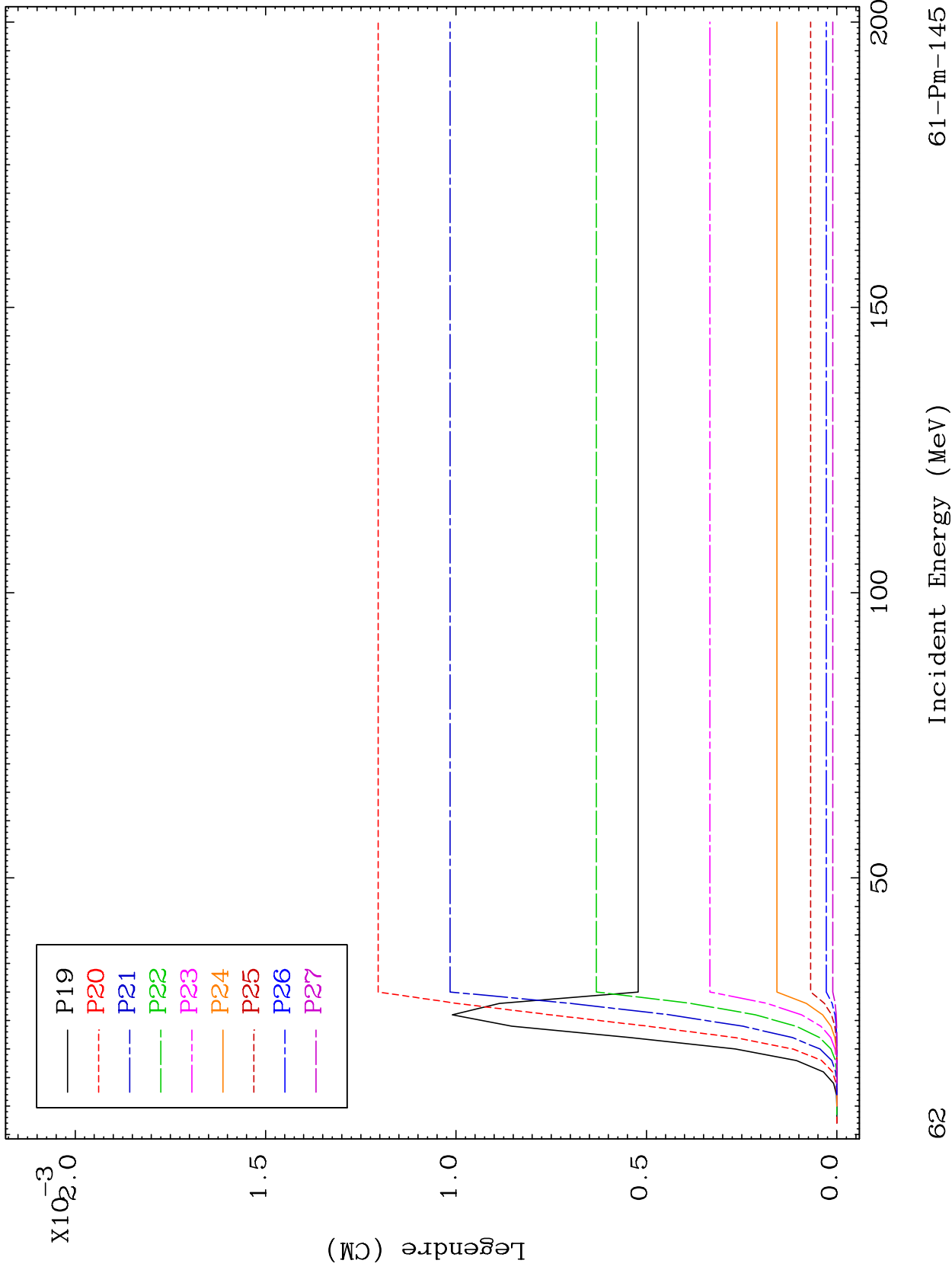




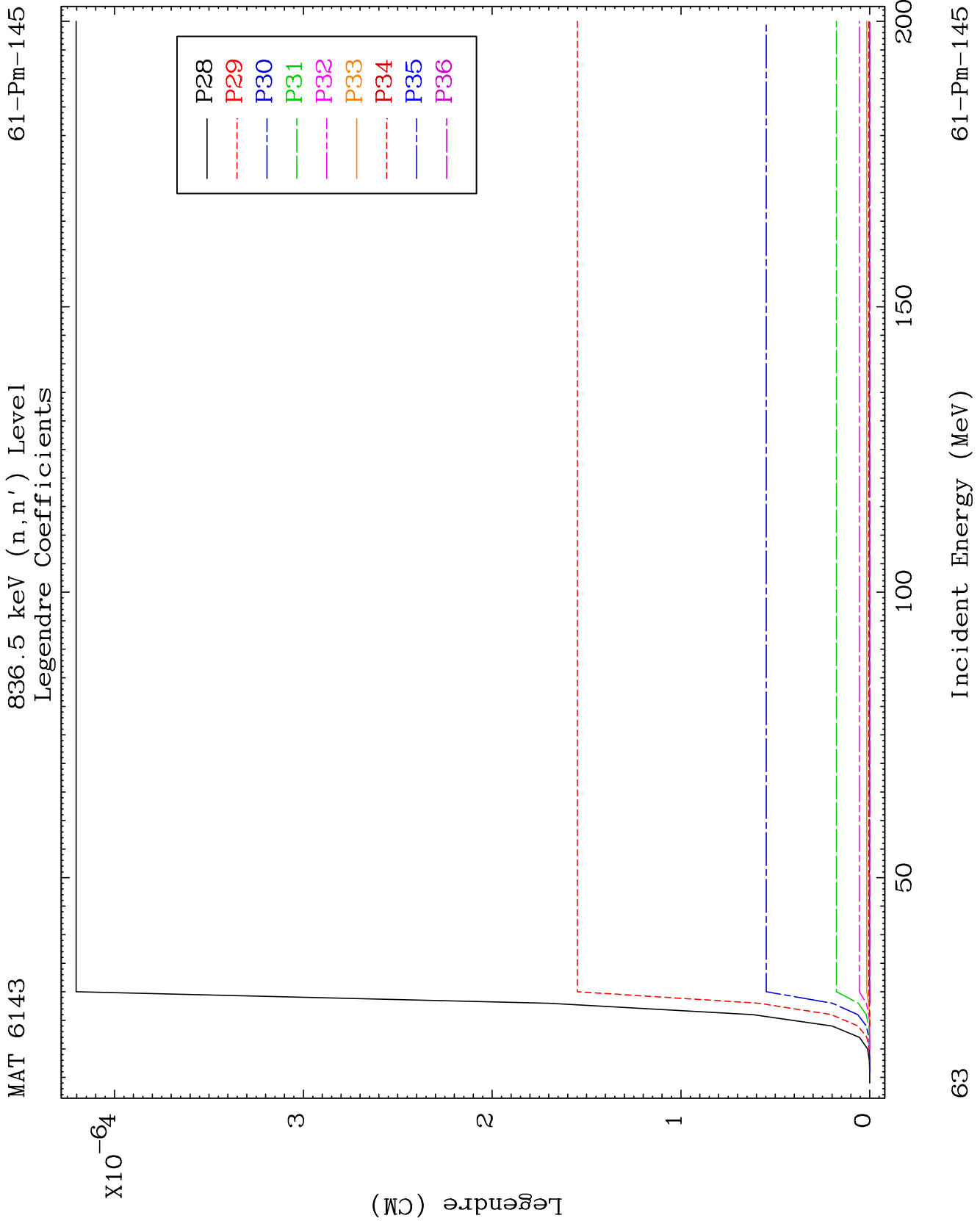
MAT 6143

836.5 keV (n,n') Level  
Legendre Coefficients

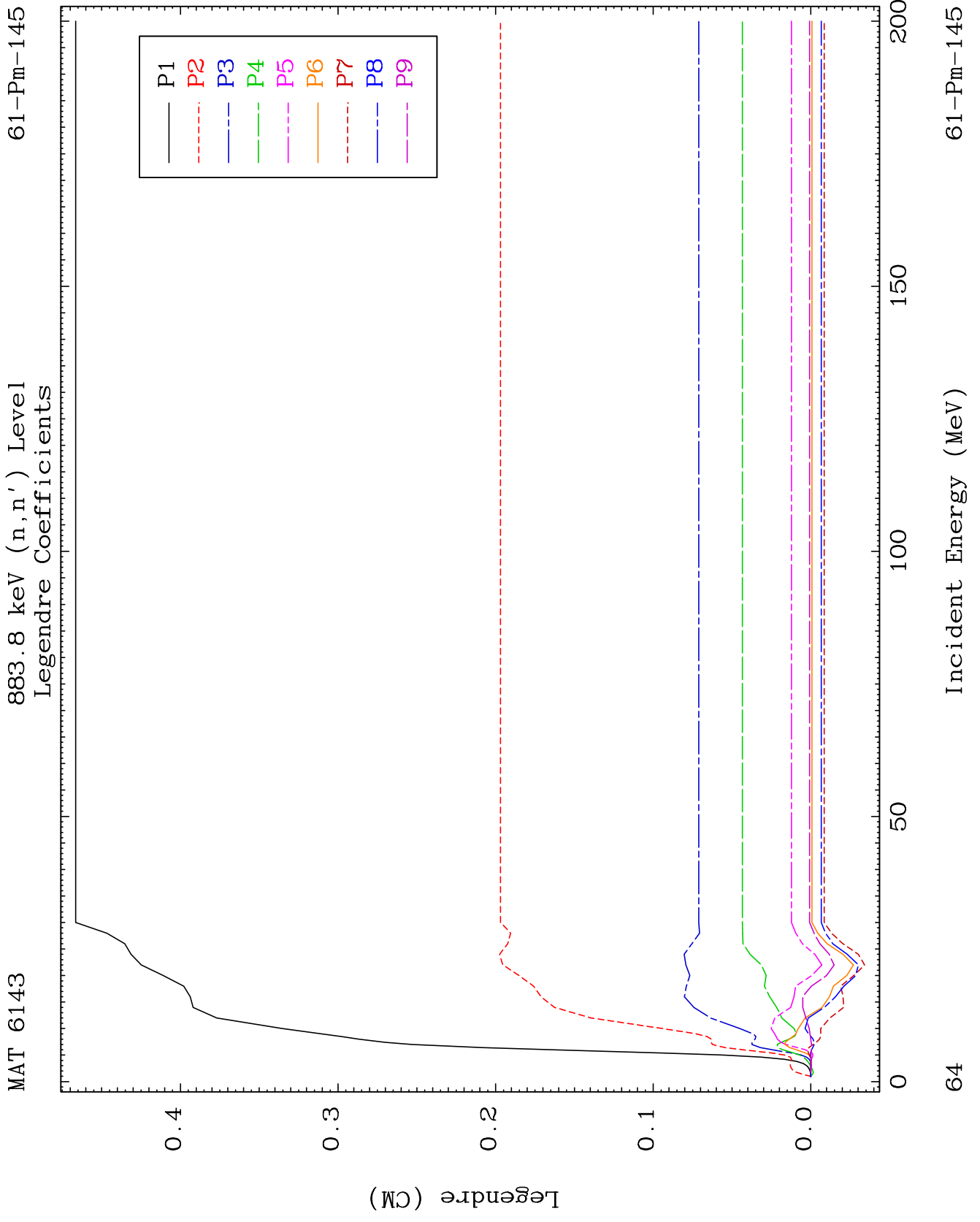
61-Pm-145

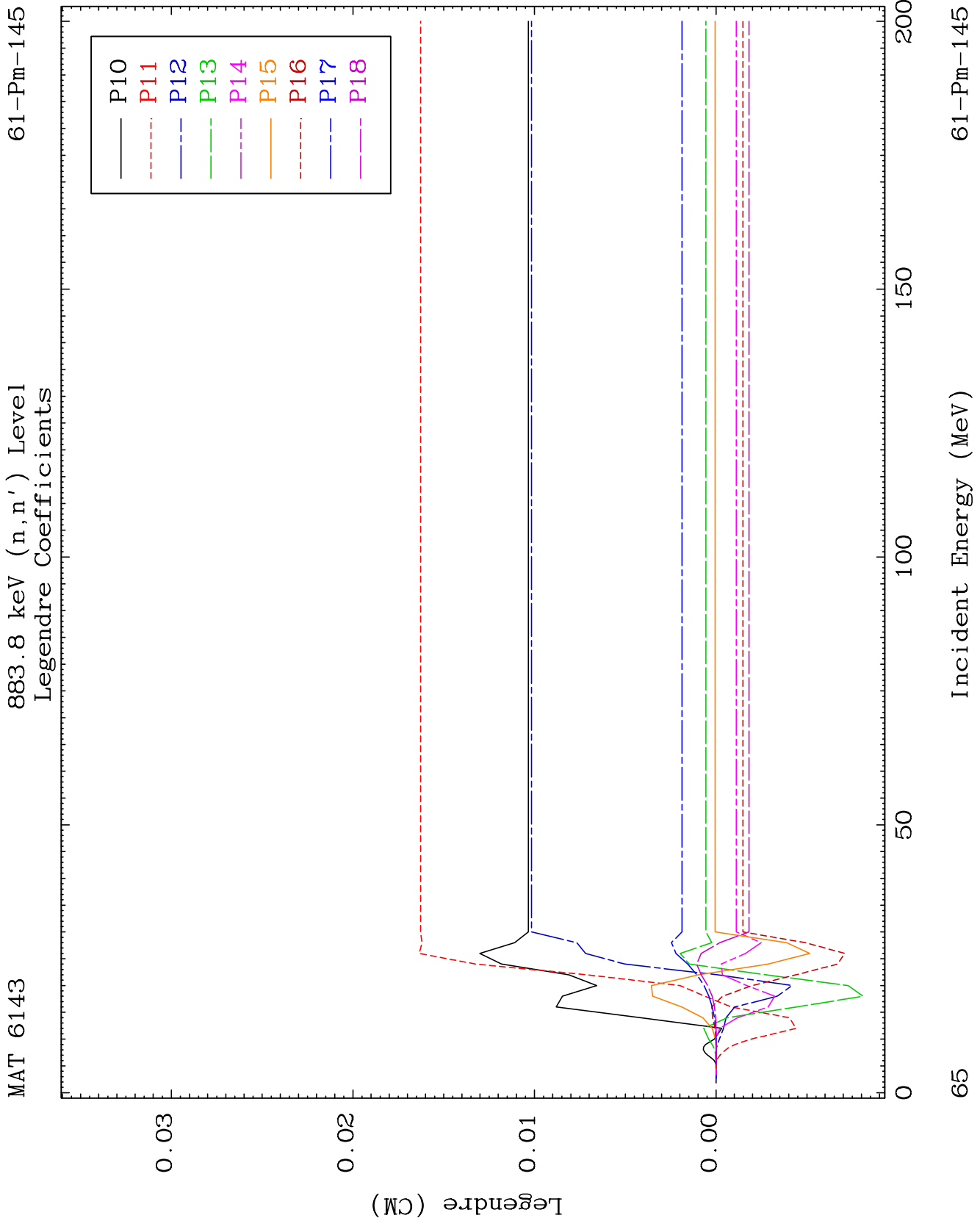


62





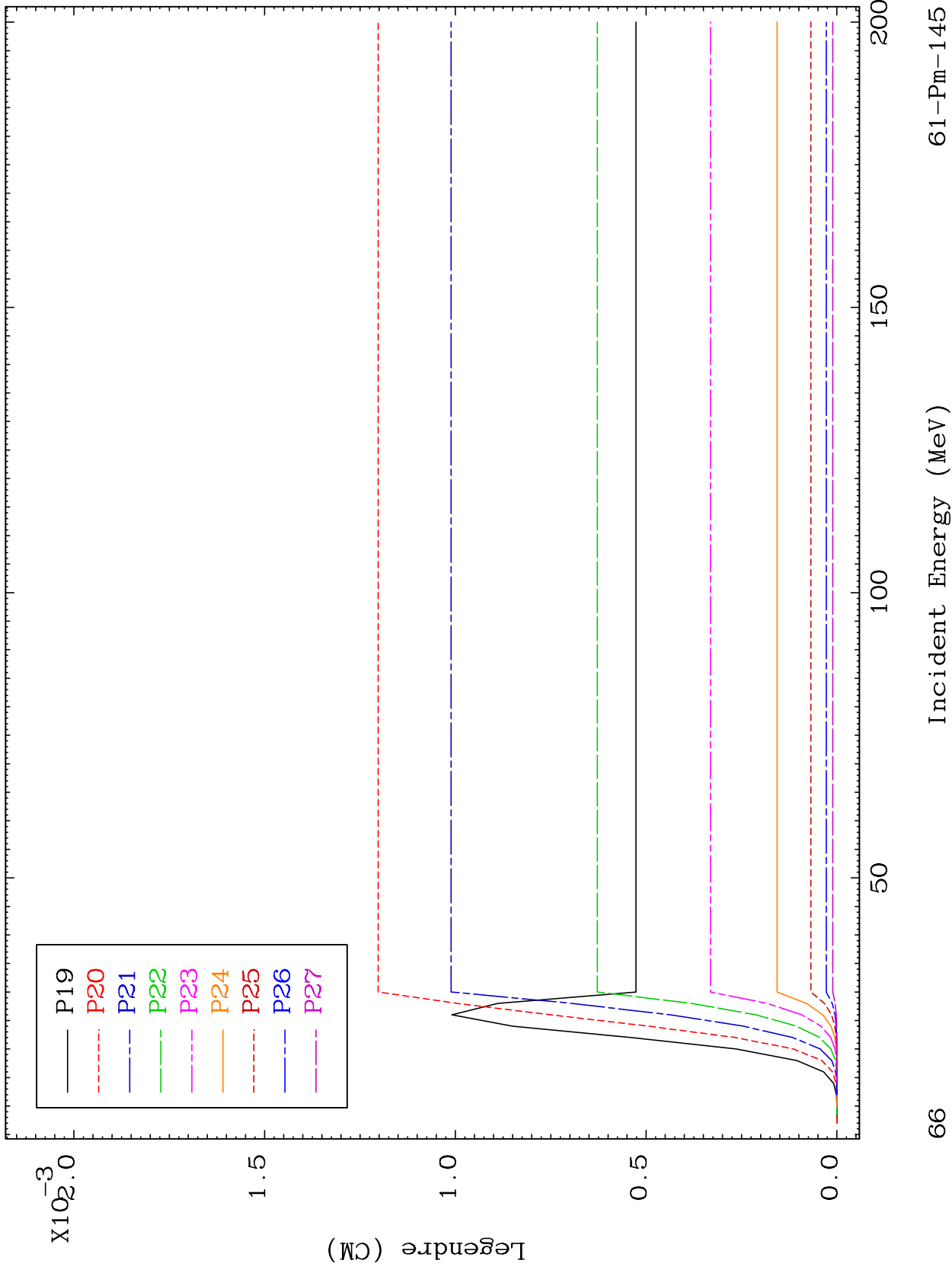




MAT 6143

883.8 keV (n,n') Level  
Legendre Coefficients

61-Pm-145



66

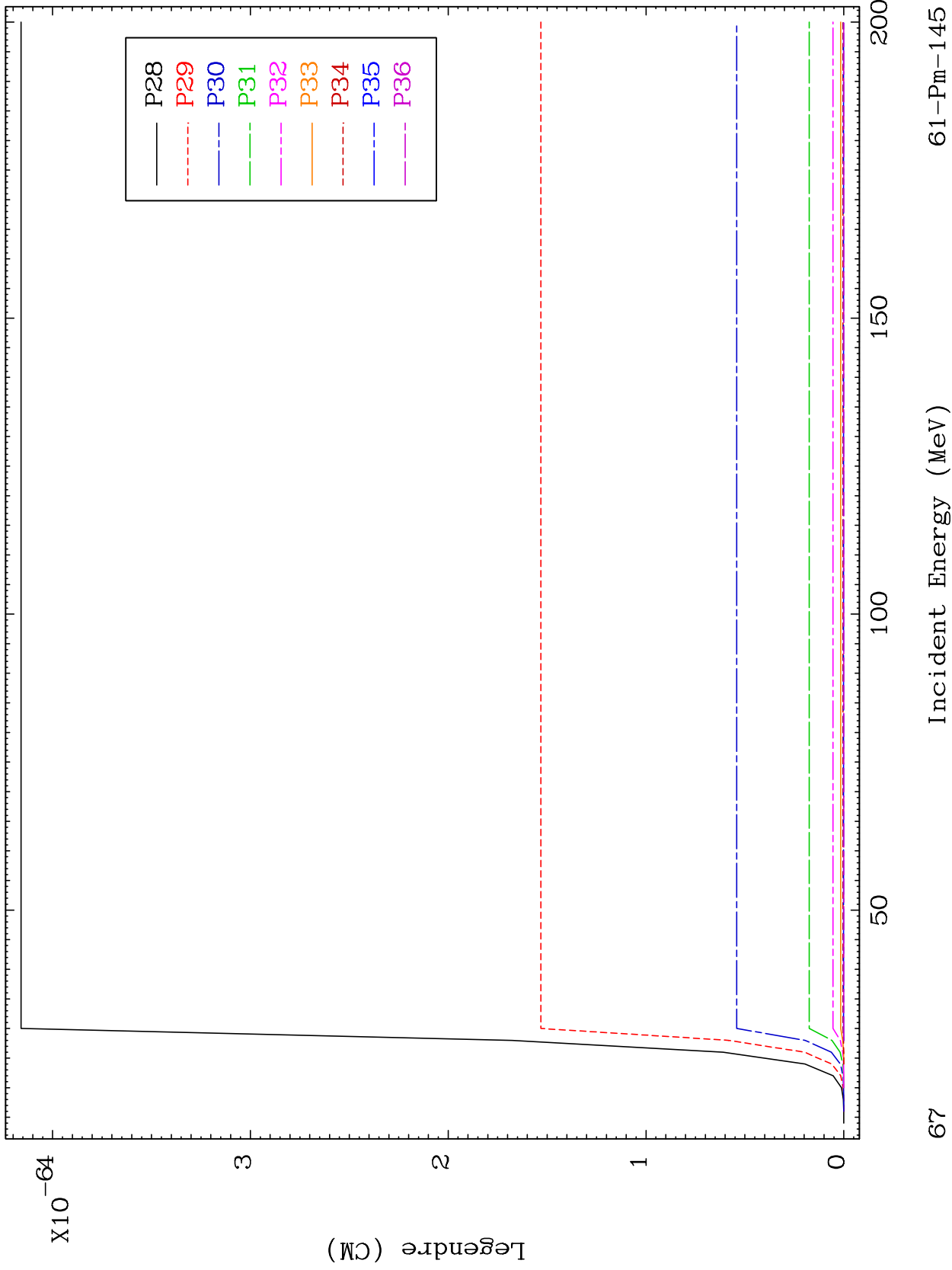
Incident Energy (MeV)

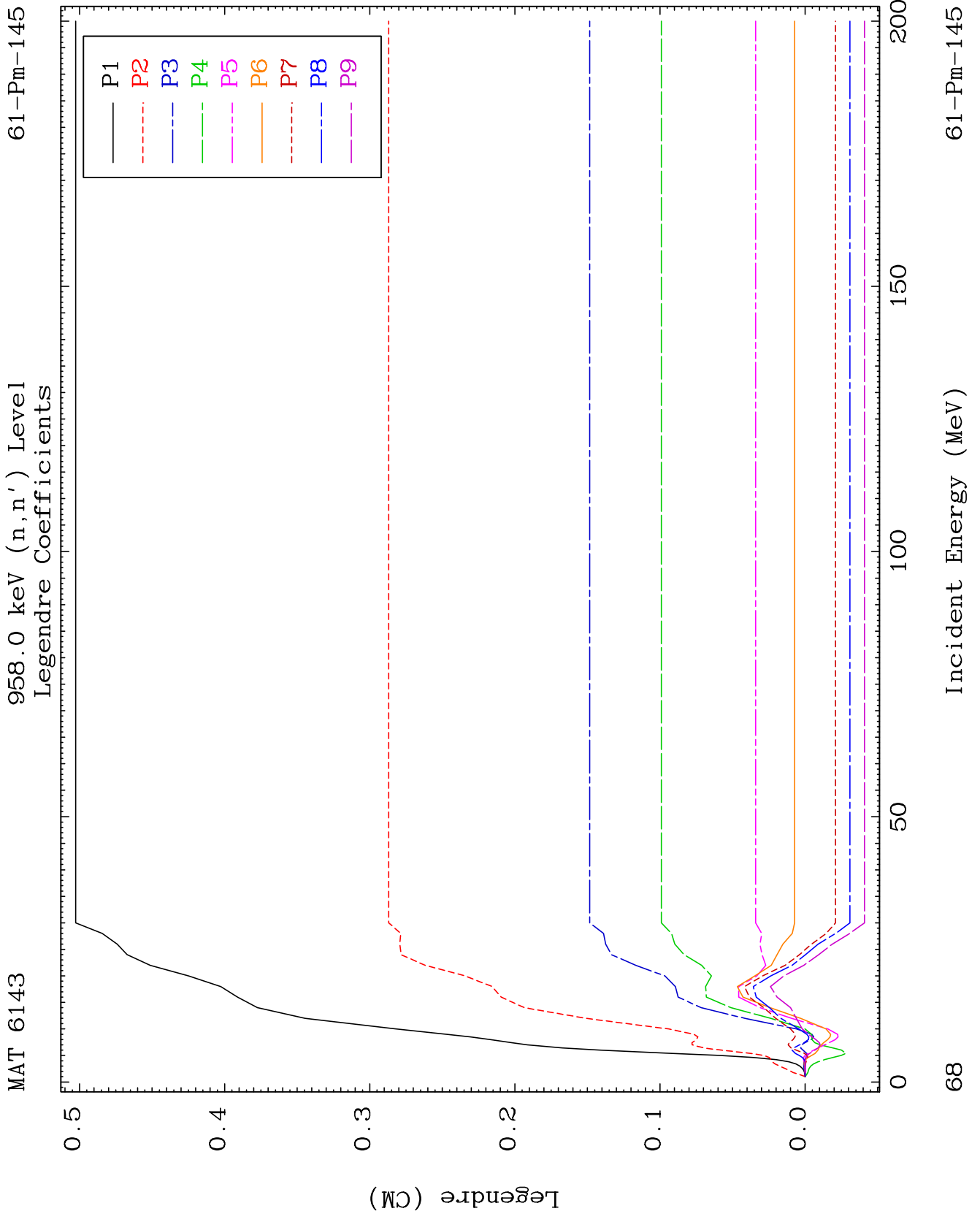
61-Pm-145

MAT 6143

883.8 keV (n,n') Level  
Legendre Coefficients

61-Pm-145



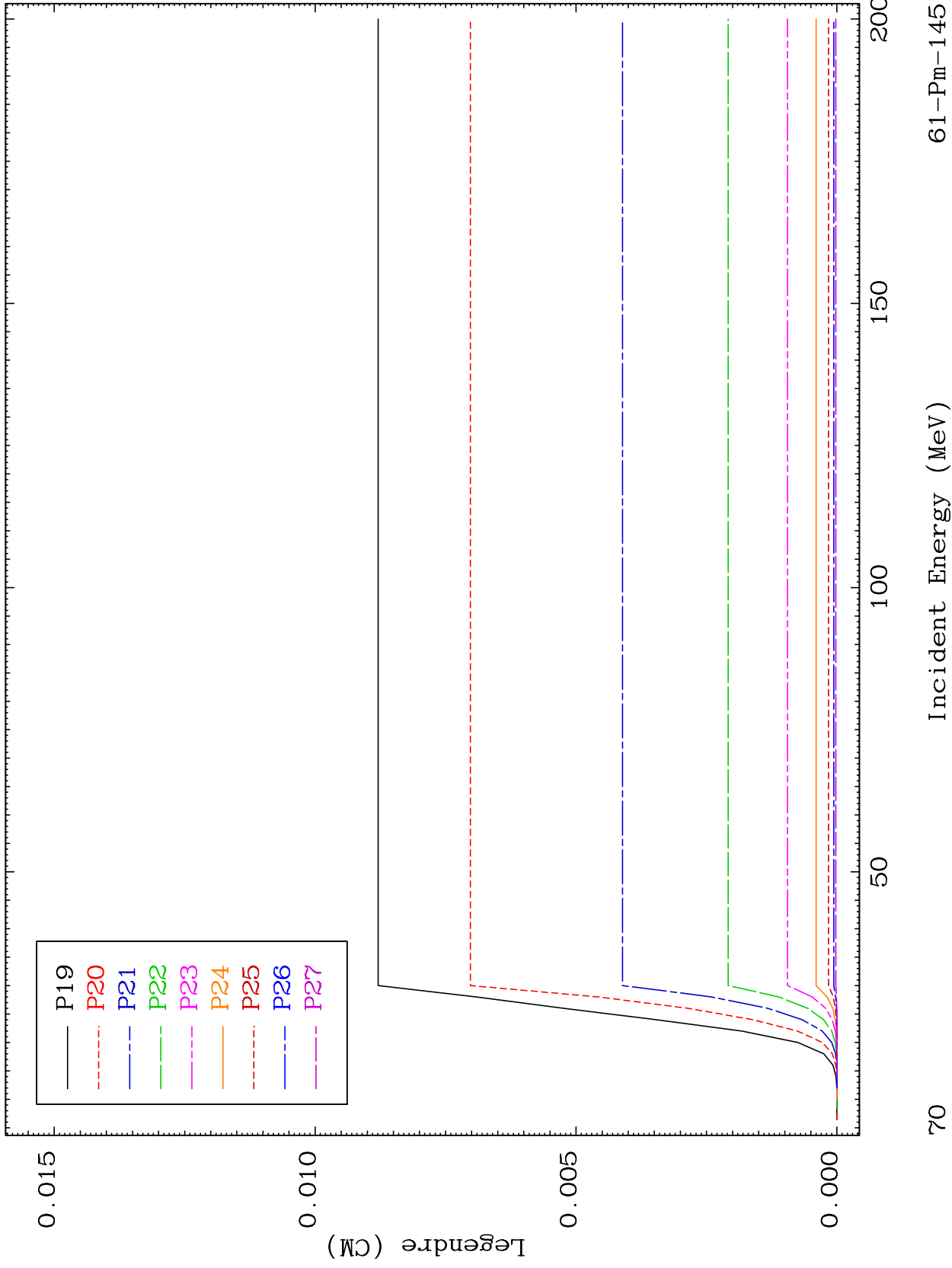




MAT 6143

958.0 keV (n,n') Level  
Legendre Coefficients

61-Pm-145



61-Pm-145

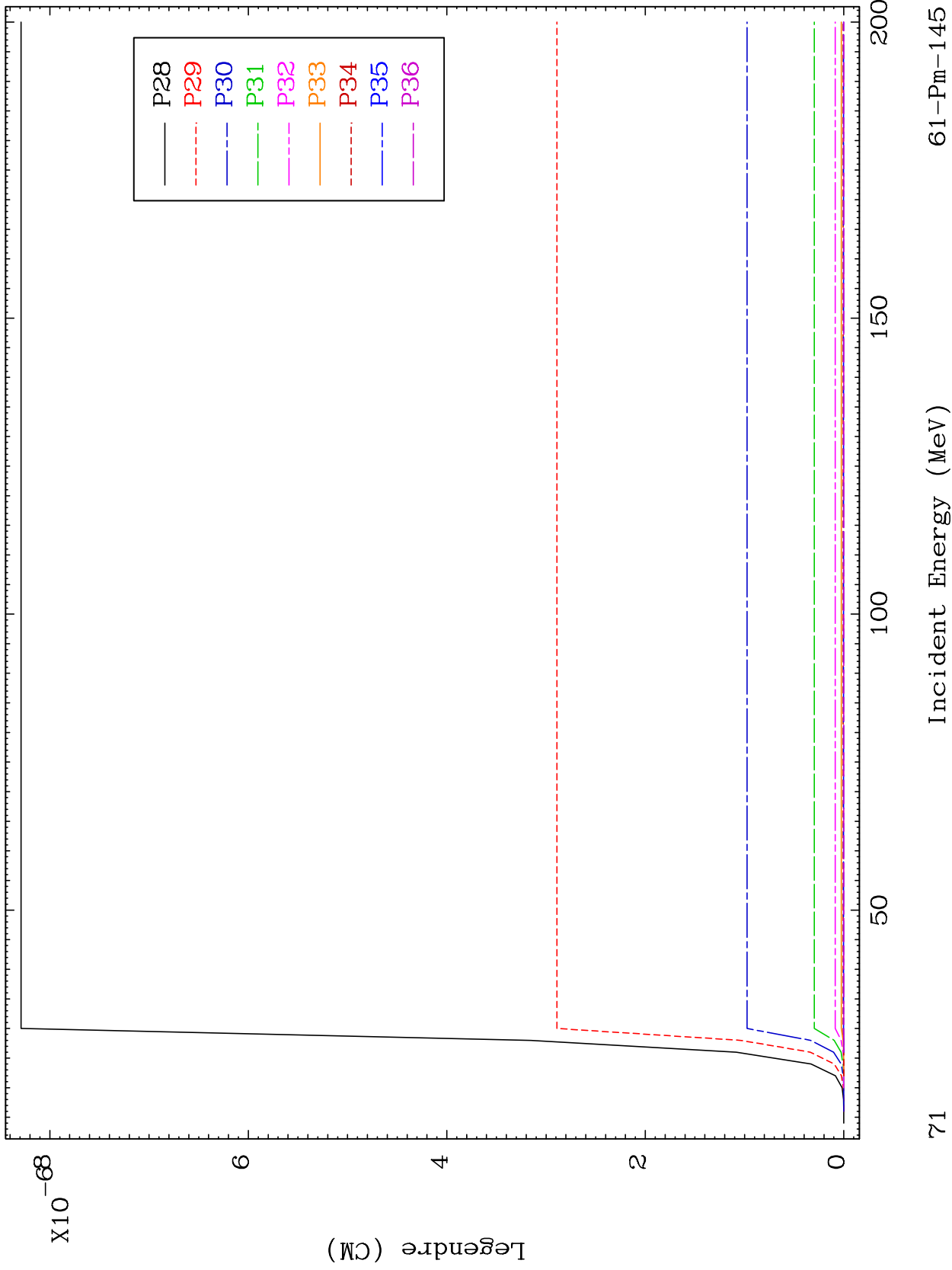
Incident Energy (MeV)

70

MAT 6143

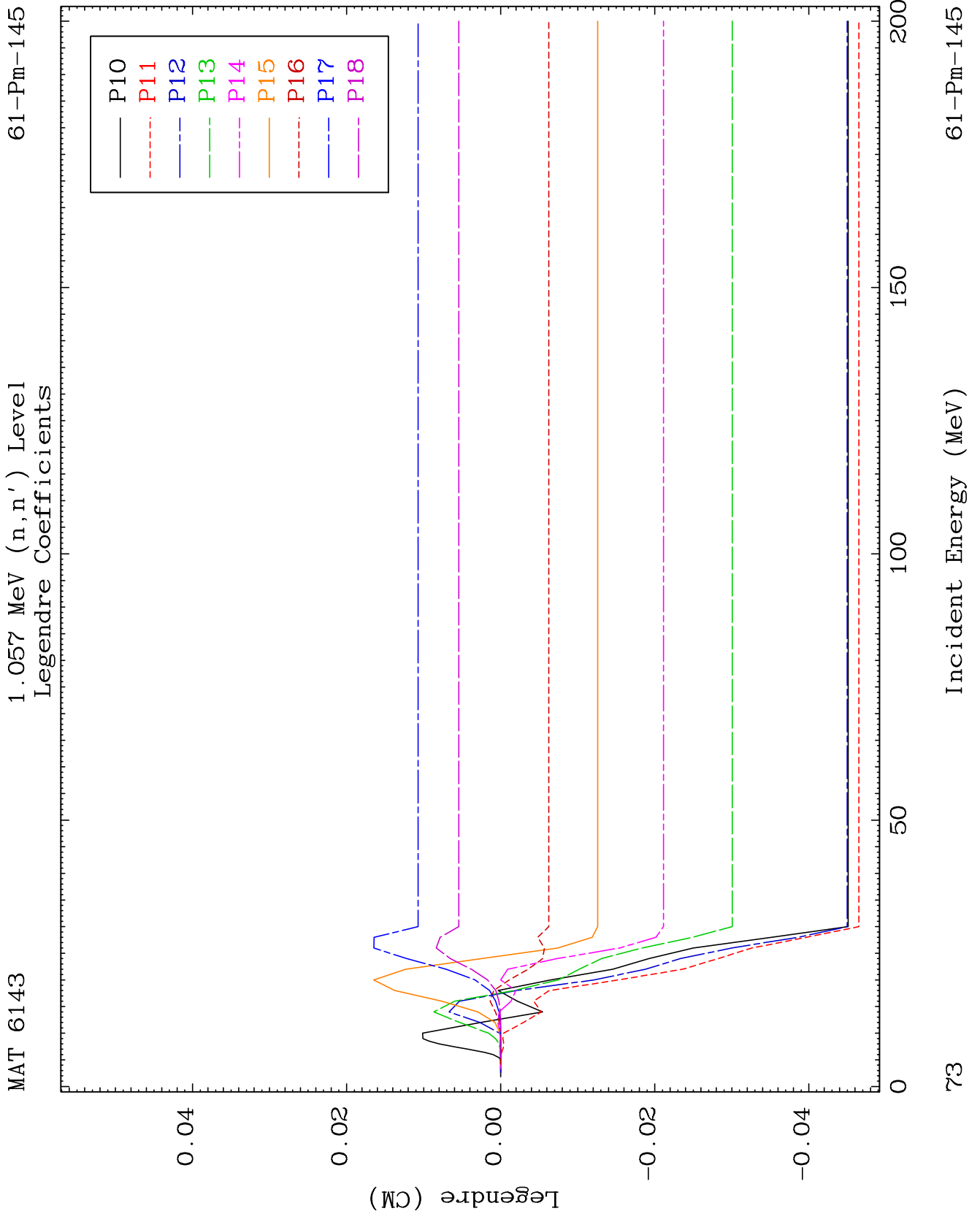
958.0 keV (n, n') Level  
Legendre Coefficients

61-Pm-145





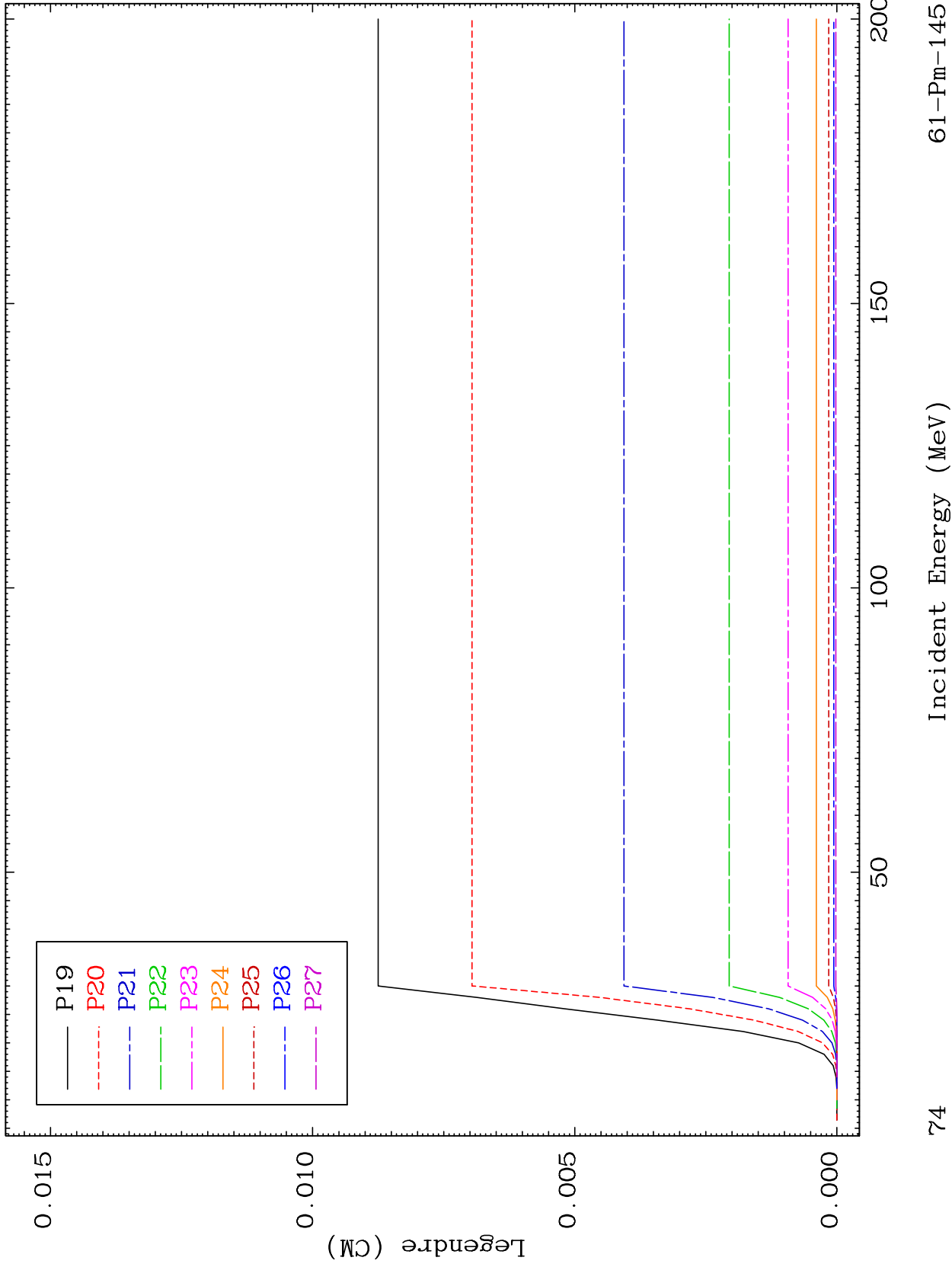




MAT 6143

1.057 MeV (n,n') Level  
Legendre Coefficients

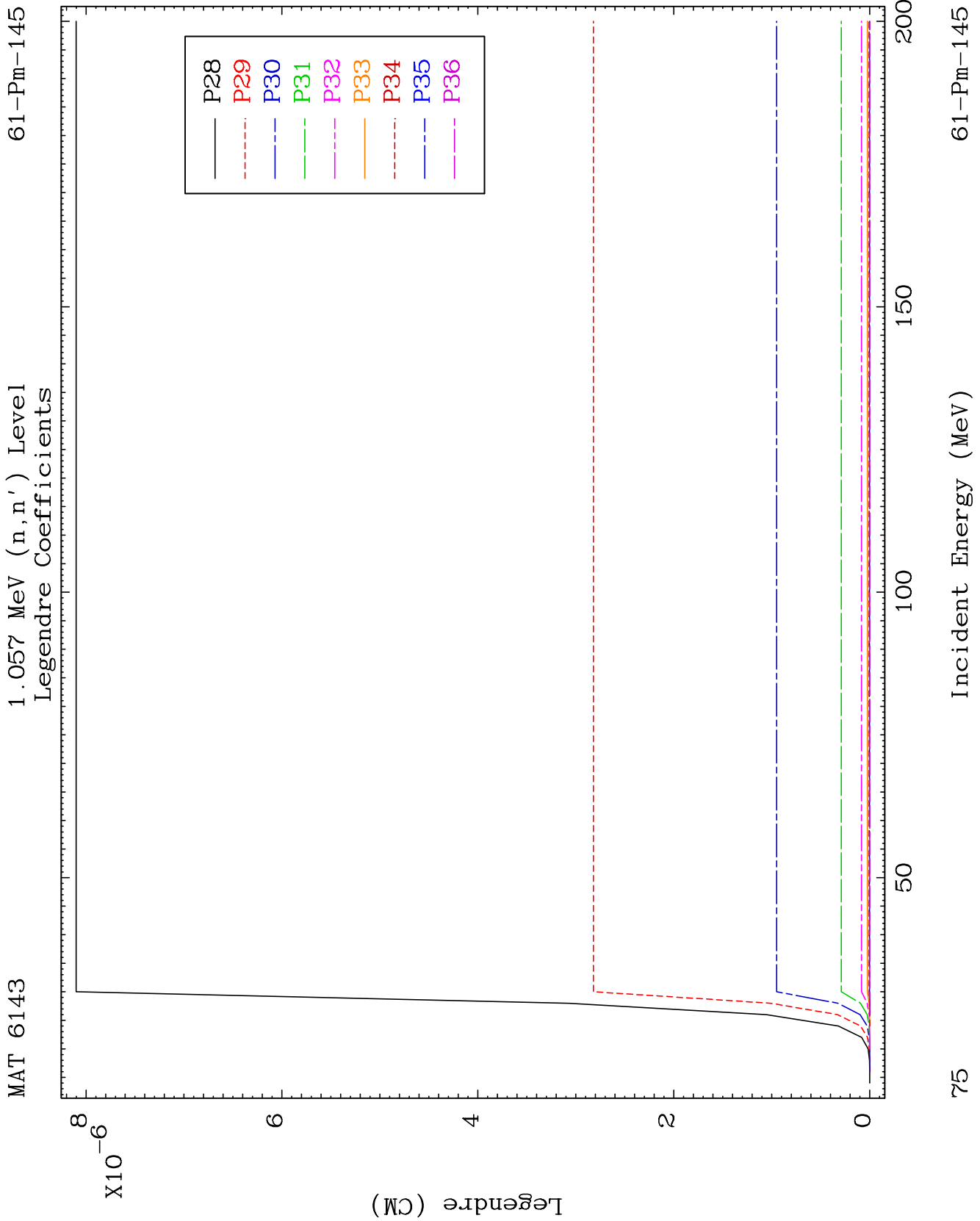
61-Pm-145

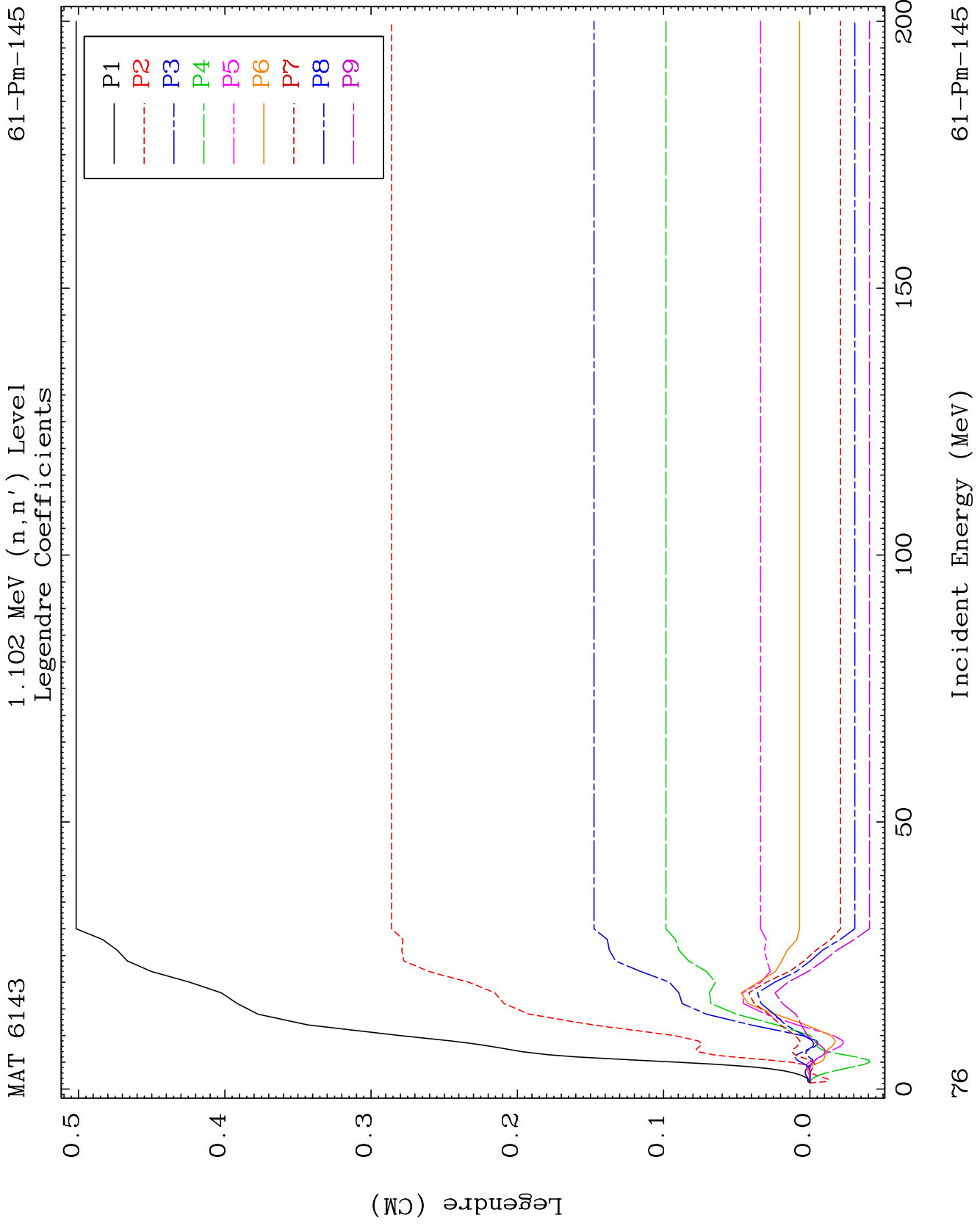


74

Incident Energy (MeV)

61-Pm-145



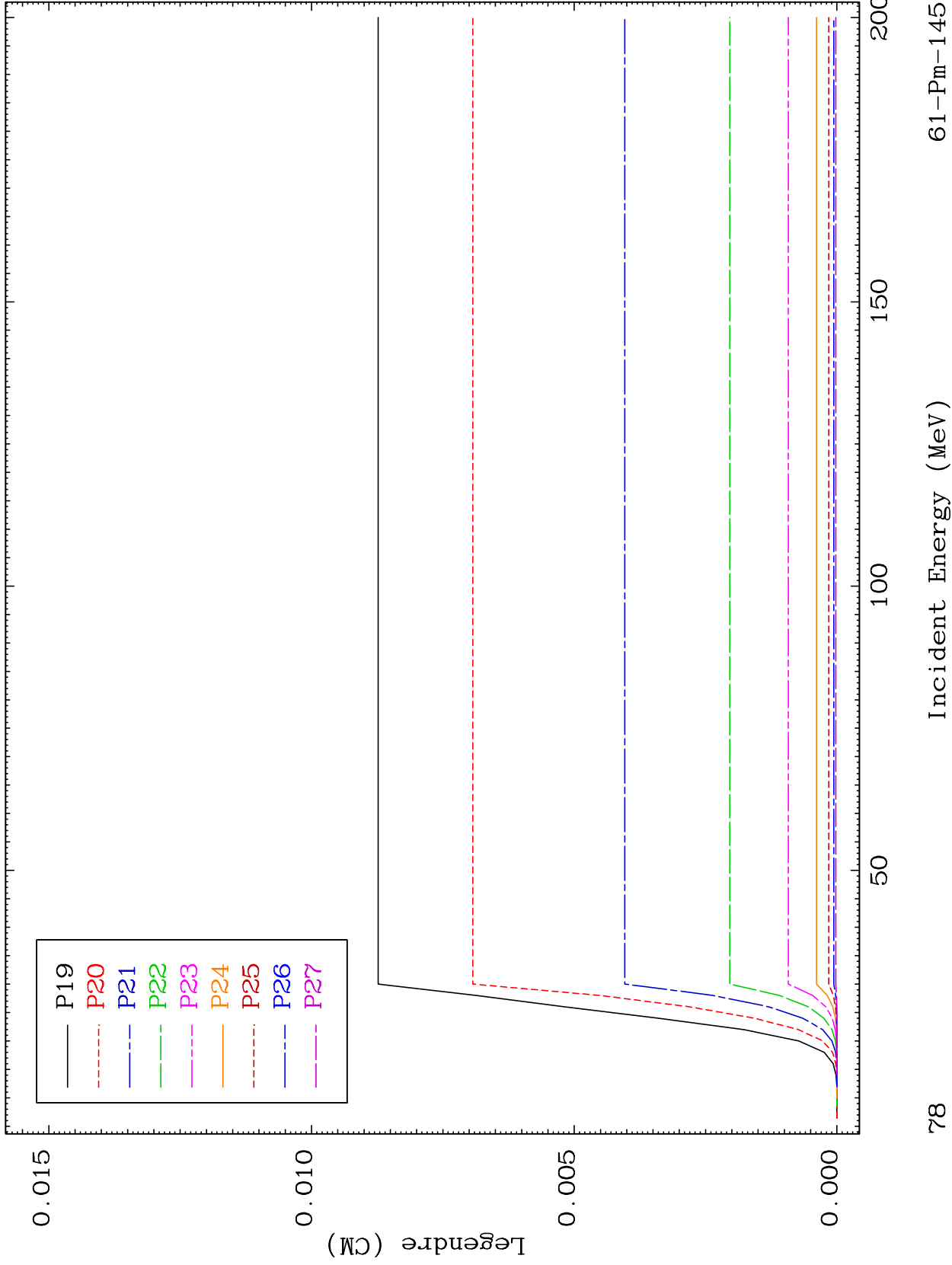




MAT 6143

1.102 MeV (n,n') Level  
Legendre Coefficients

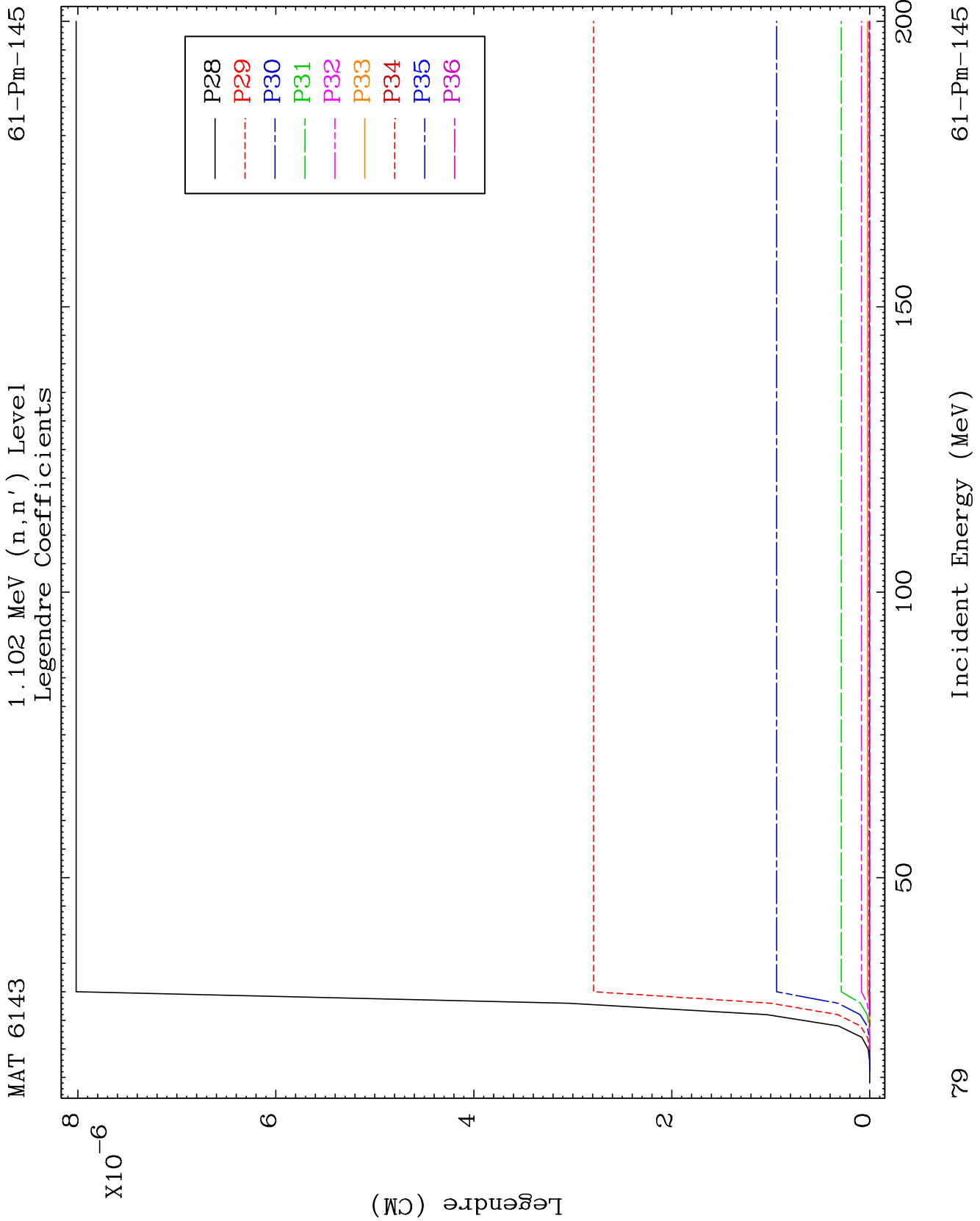
61-Pm-145



78

Incident Energy (MeV)

61-Pm-145



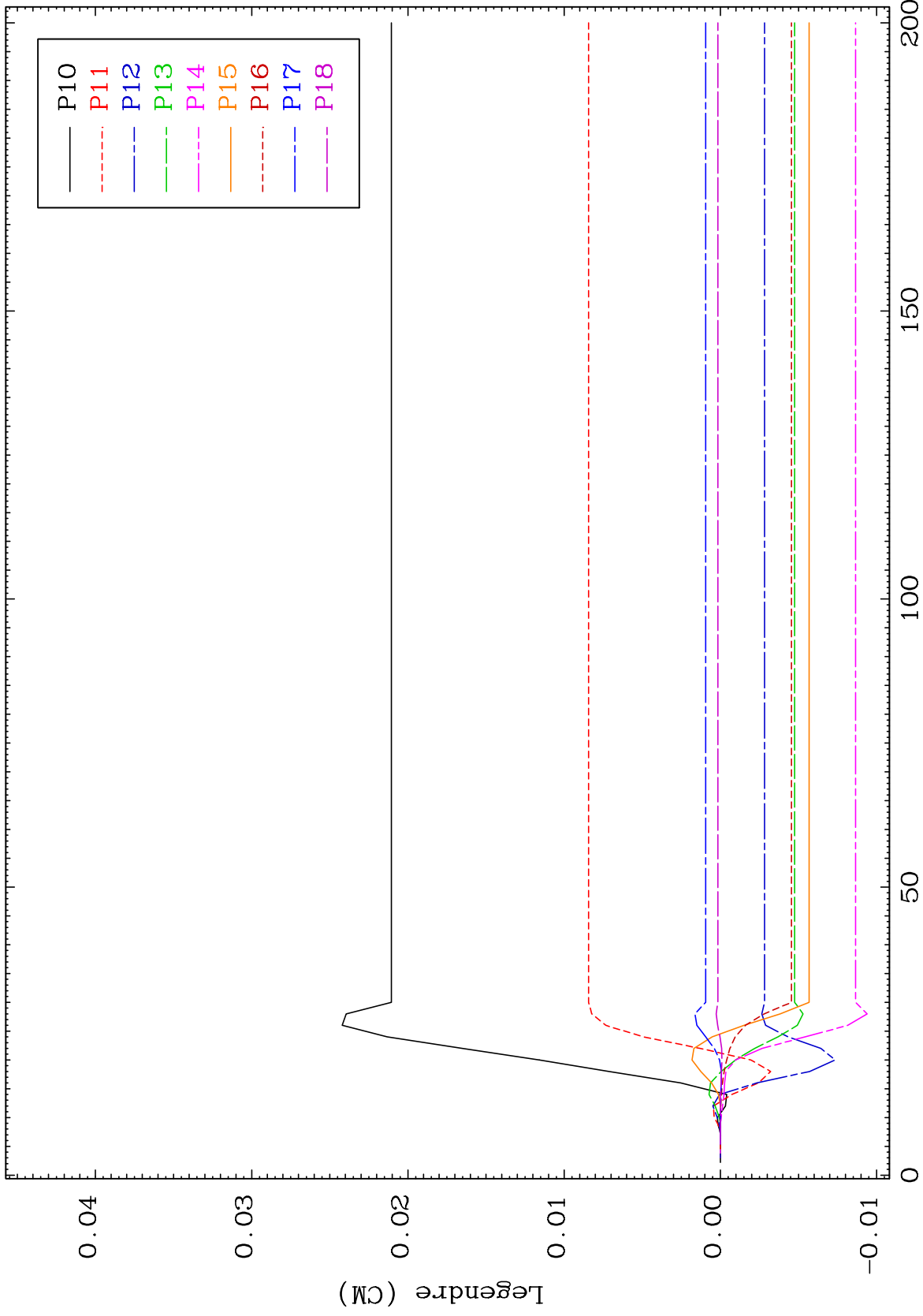




MAT 6143

1.207 MeV (n,n') Level  
Legendre Coefficients

61-Pm-145



81

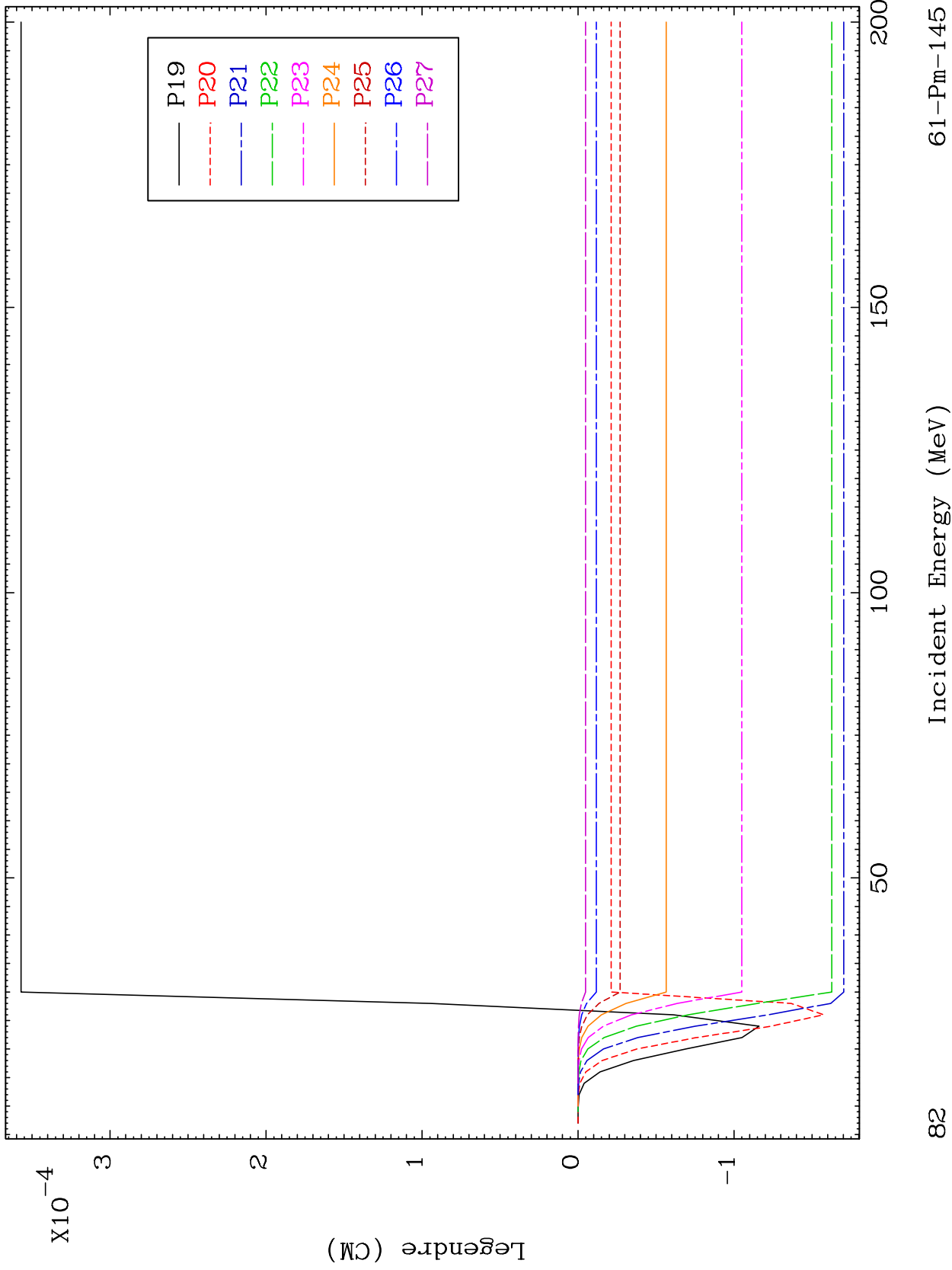
Incident Energy (MeV)

61-Pm-145

MAT 6143

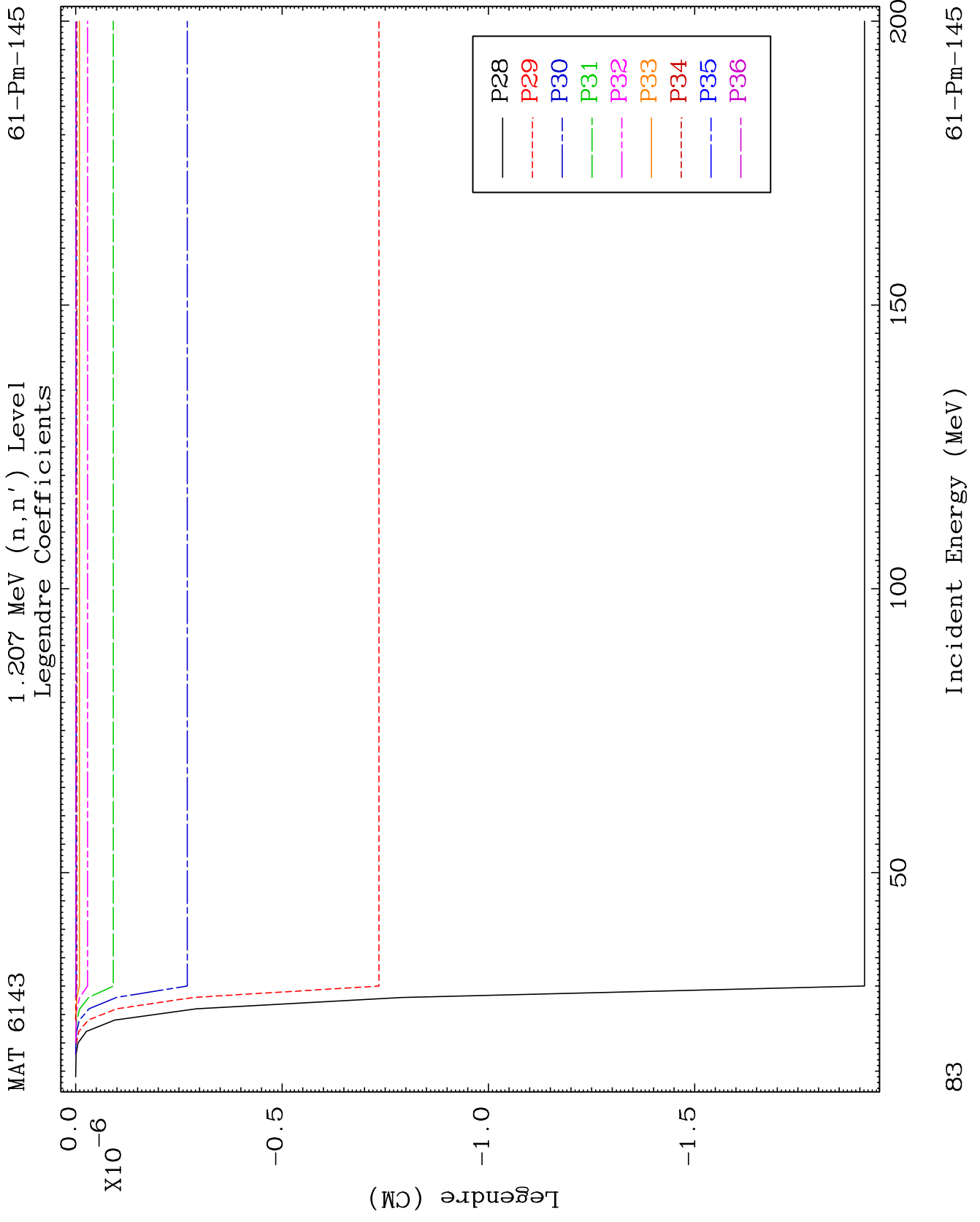
1.207 MeV (n,n') Level  
Legendre Coefficients

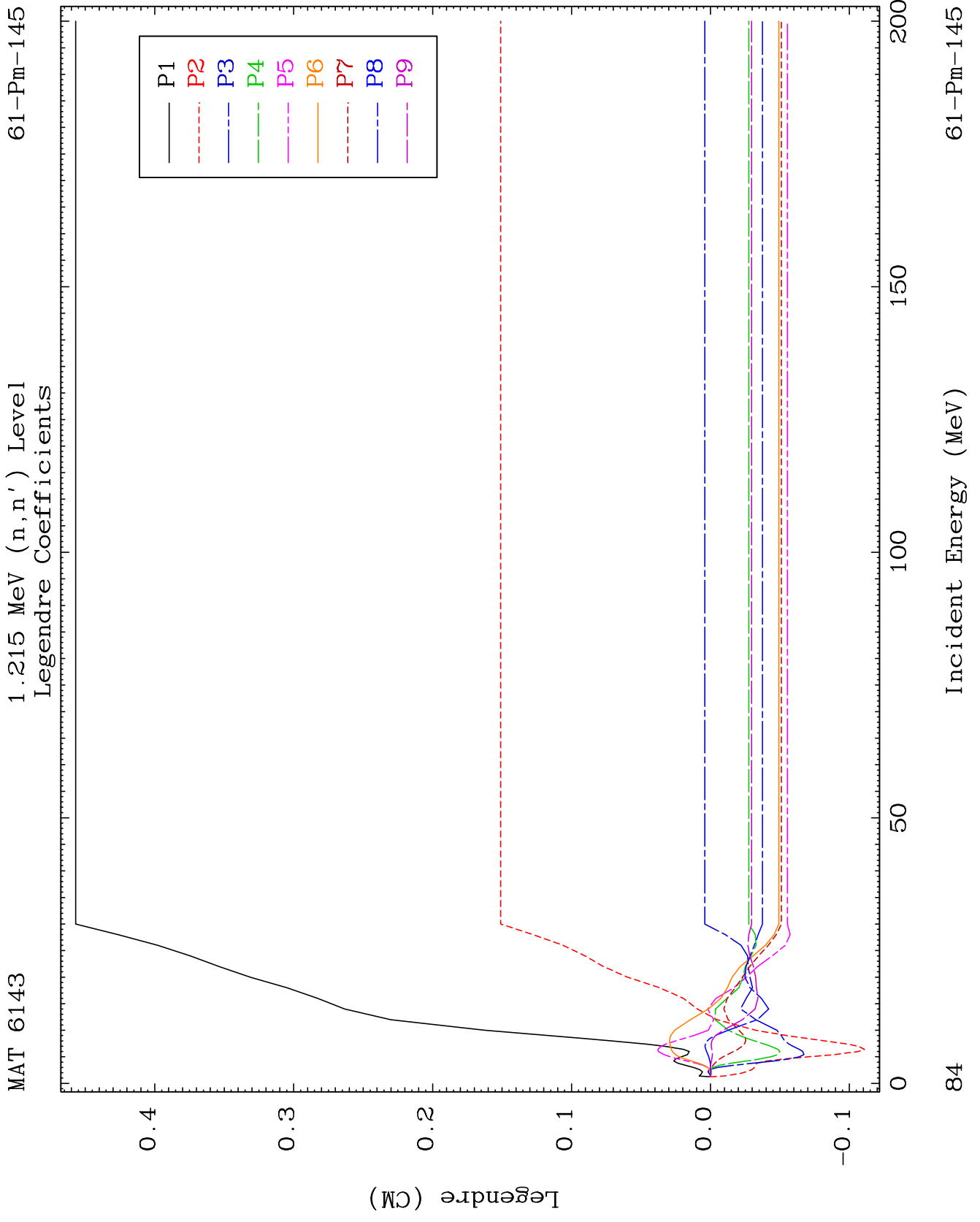
61-Pm-145

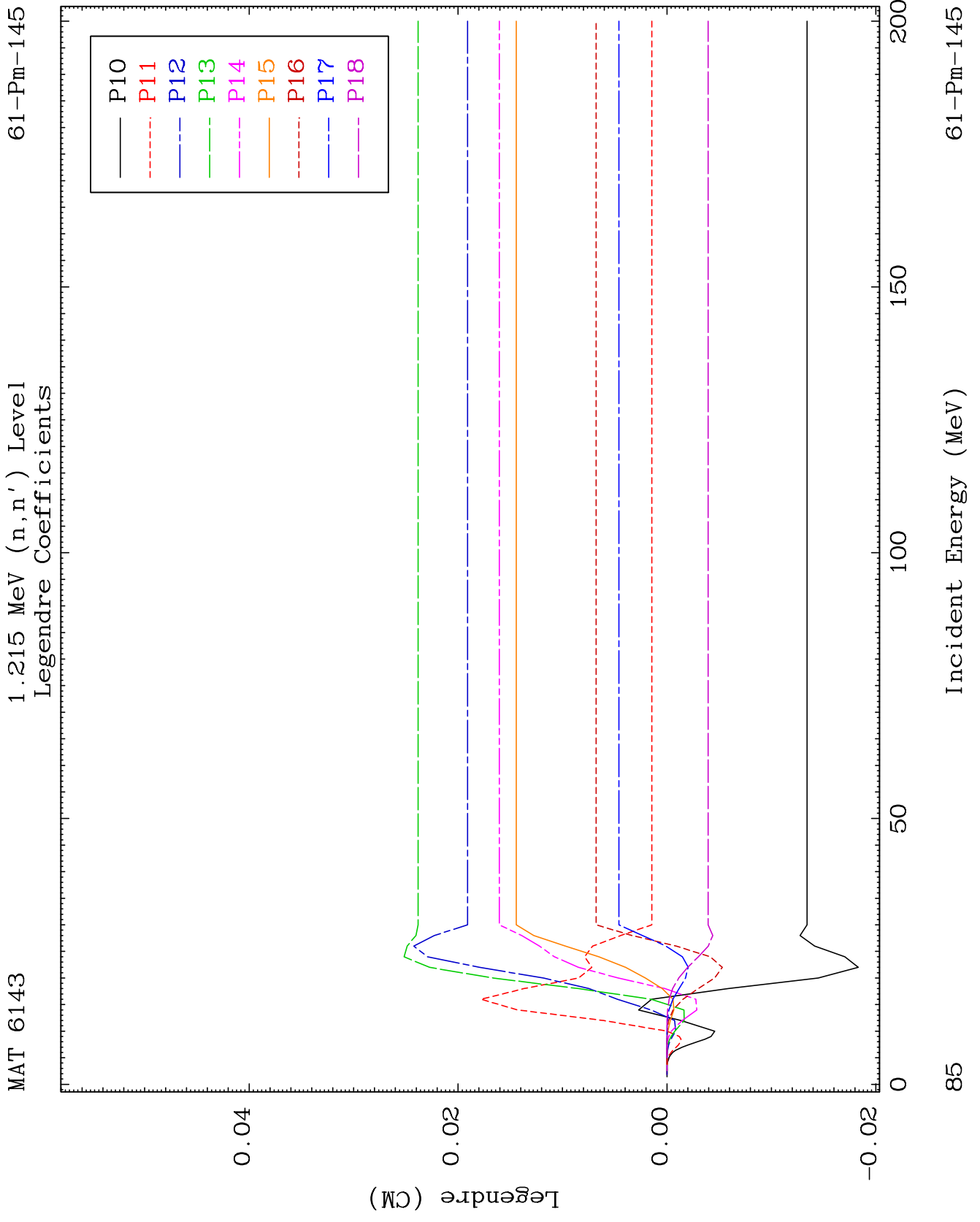


82

61-Pm-145



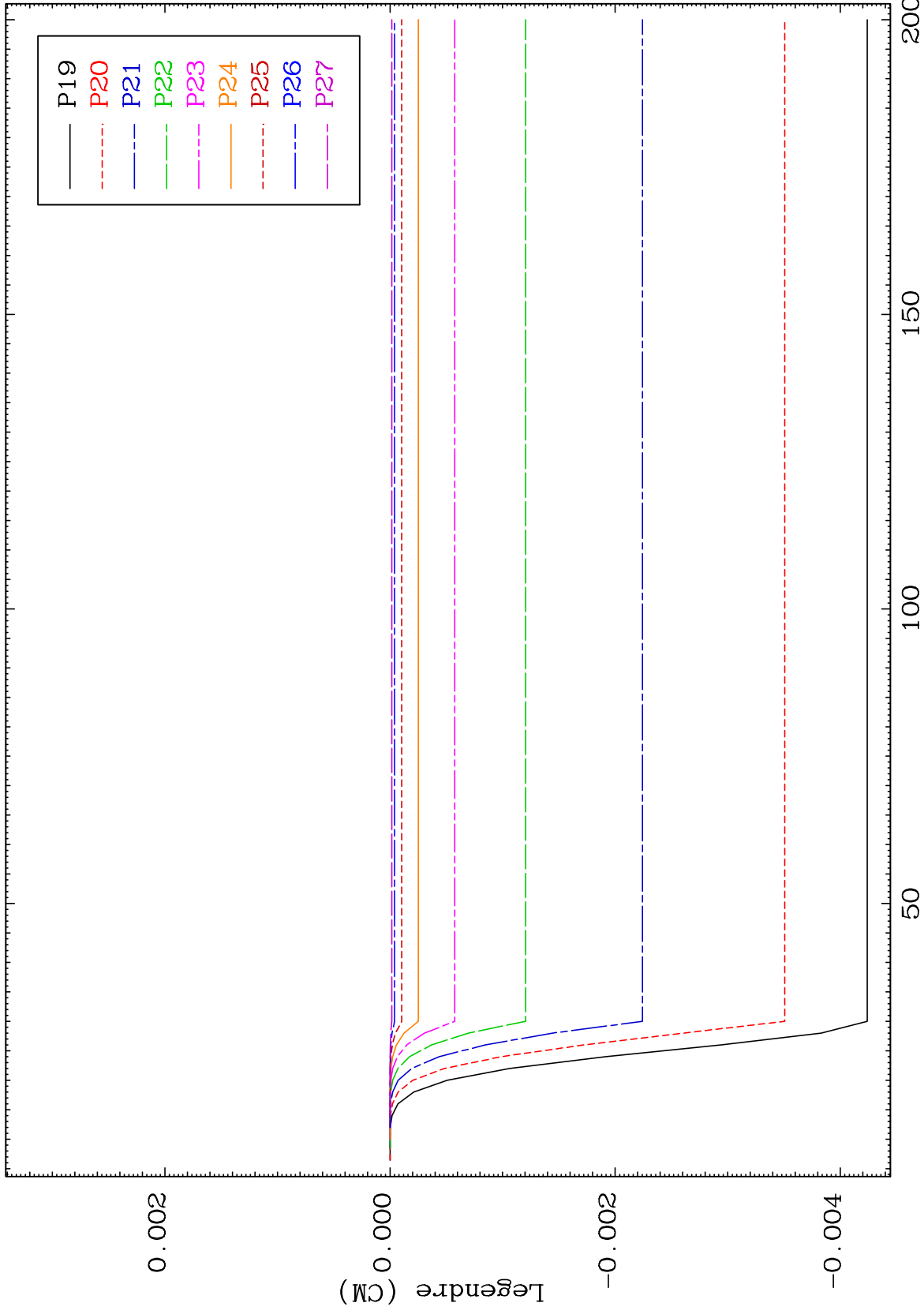




MAT 6143

1.215 MeV (n,n') Level  
Legendre Coefficients

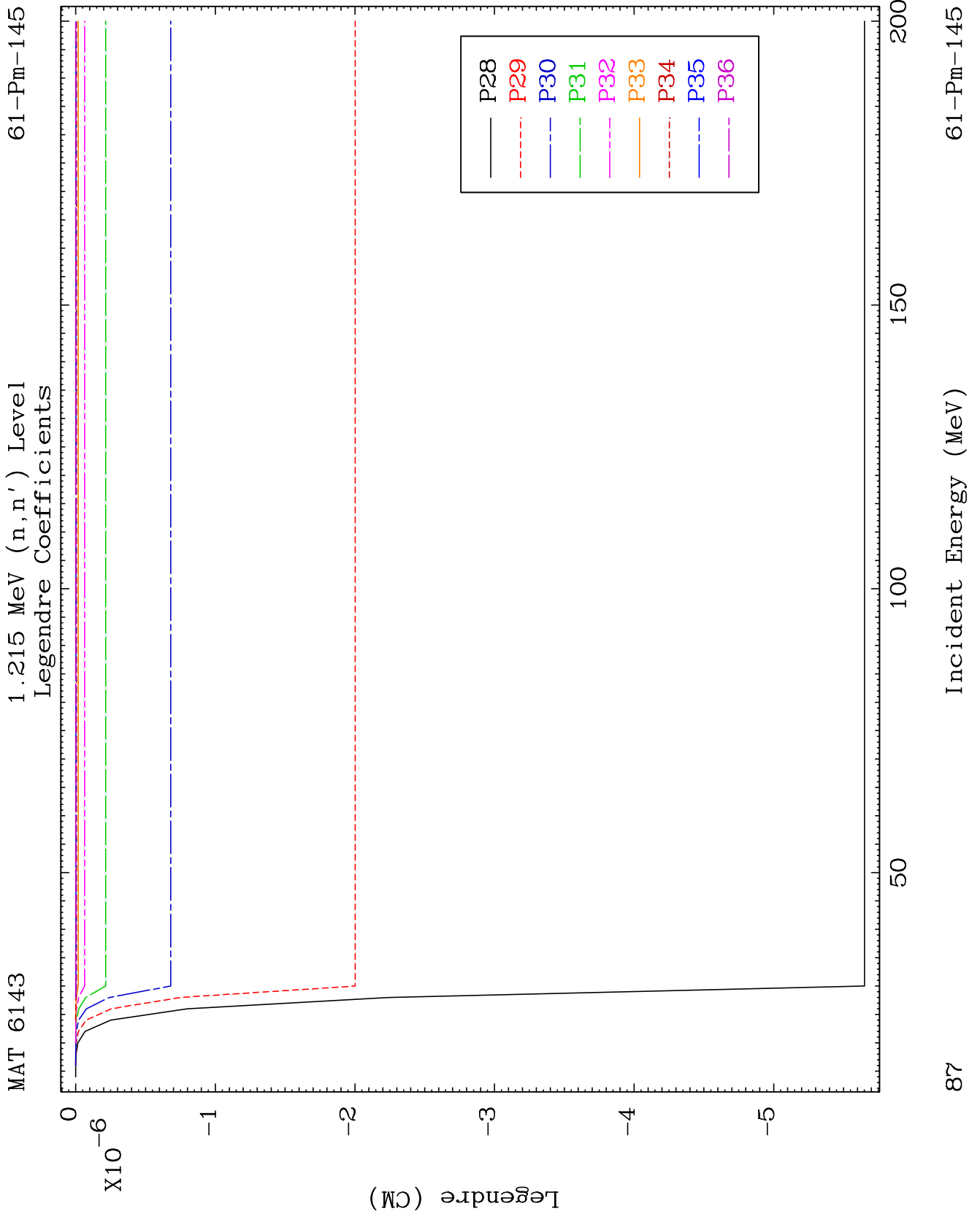
61-Pm-145



86

Incident Energy (MeV)

61-Pm-145





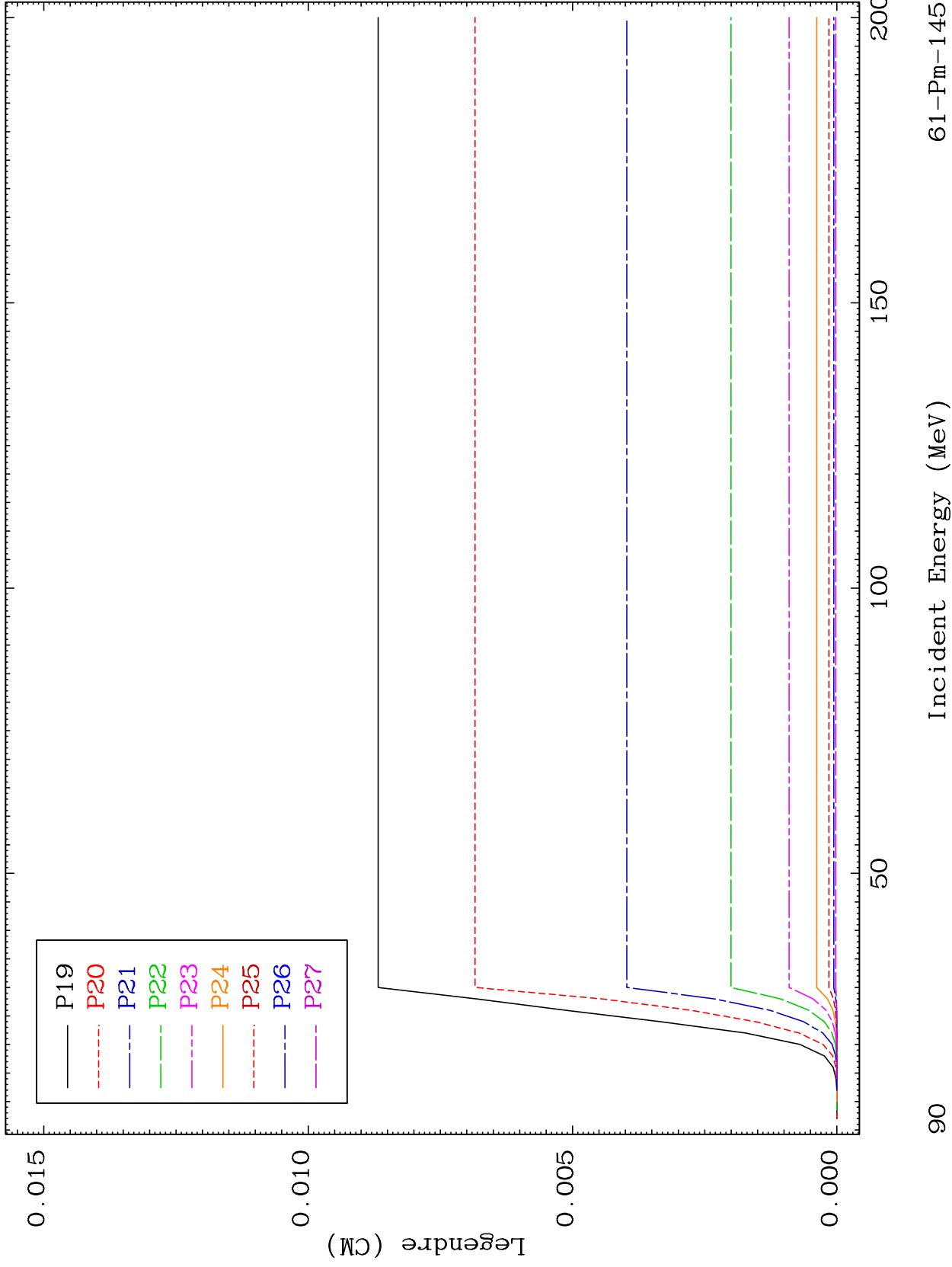




MAT 6143

1.234 MeV (n,n') Level  
Legendre Coefficients

61-Pm-145



90

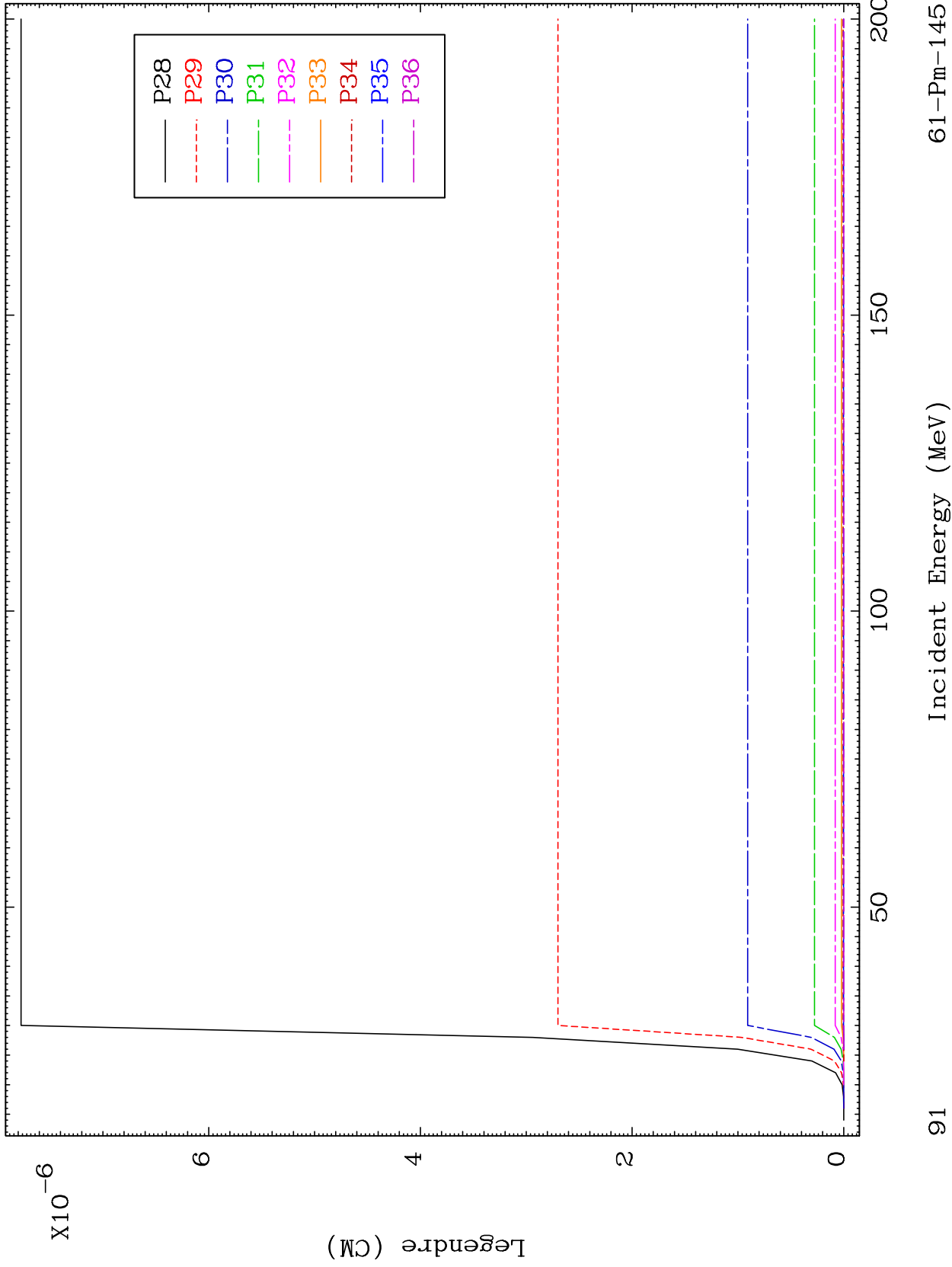
Incident Energy (MeV)

61-Pm-145

MAT 6143

1.234 MeV (n,n') Level  
Legendre Coefficients

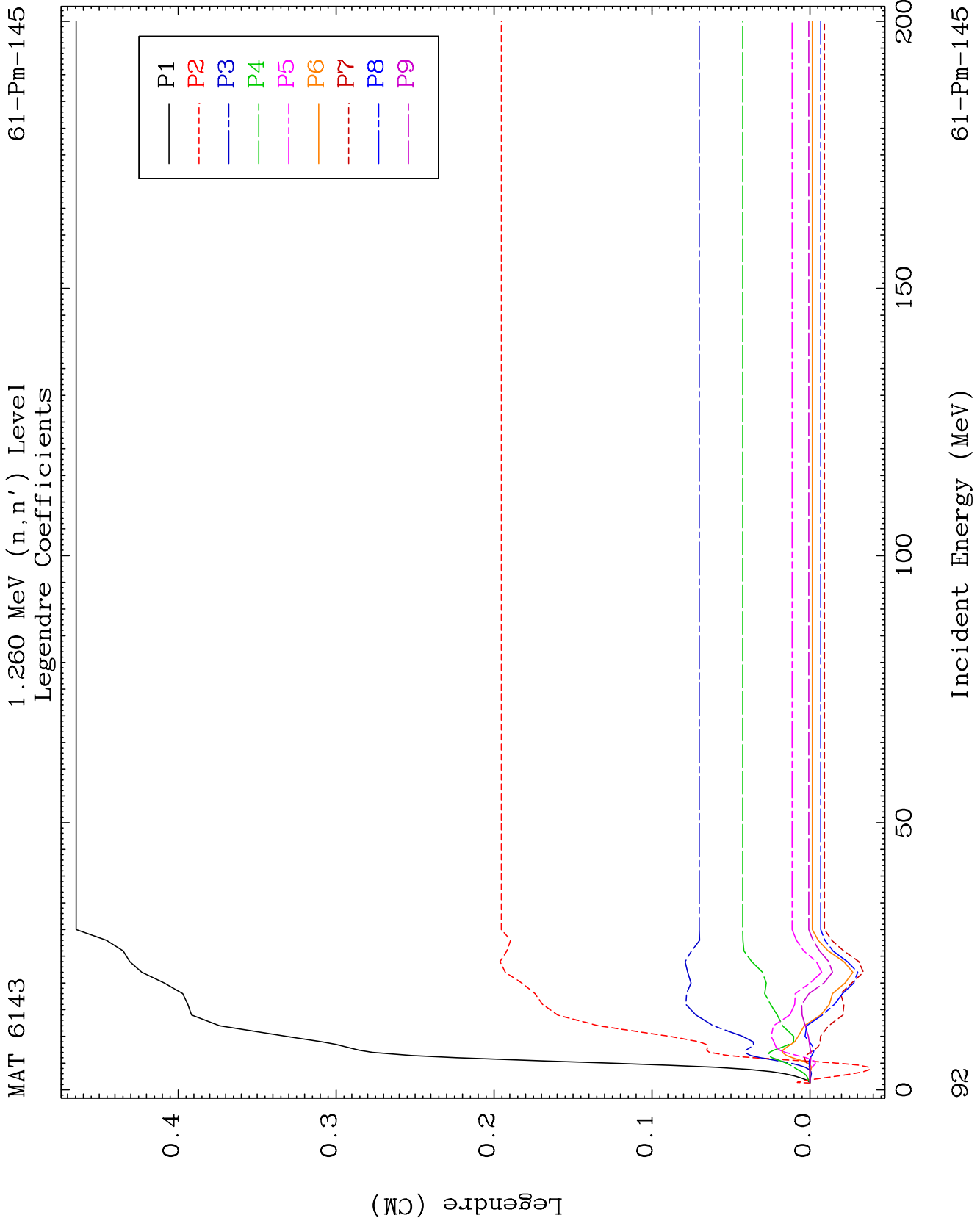
61-Pm-145

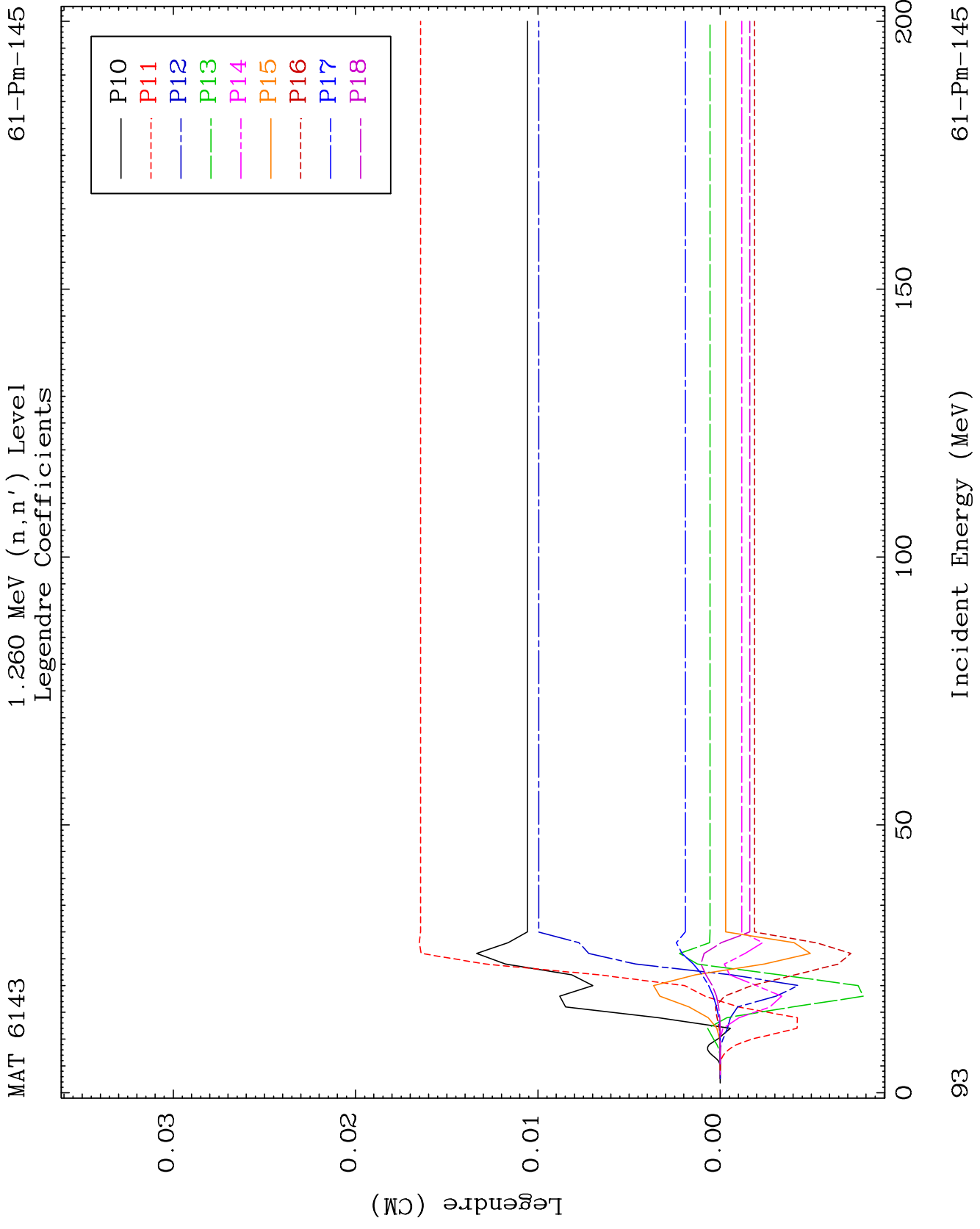


91

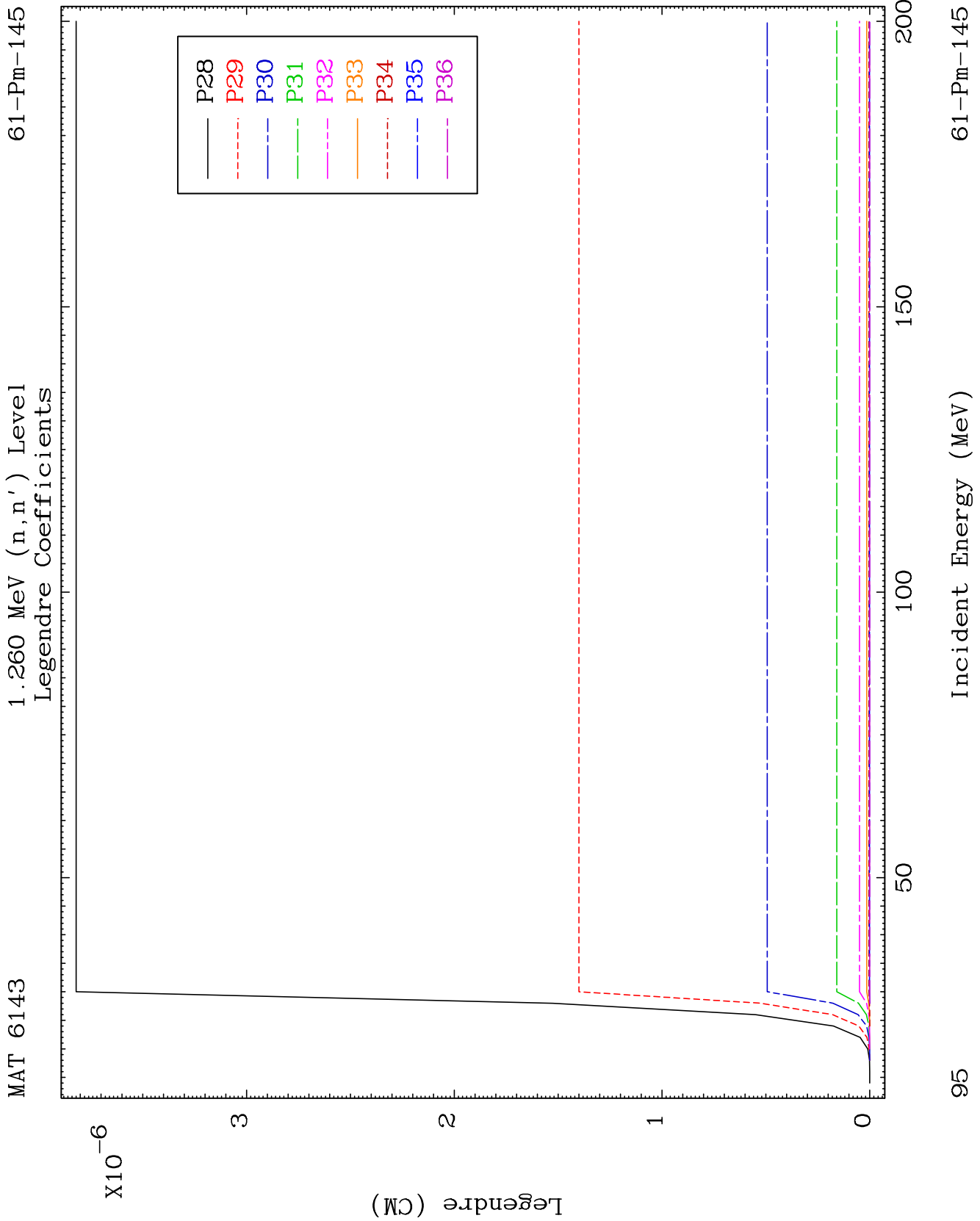
Incident Energy (MeV)

61-Pm-145









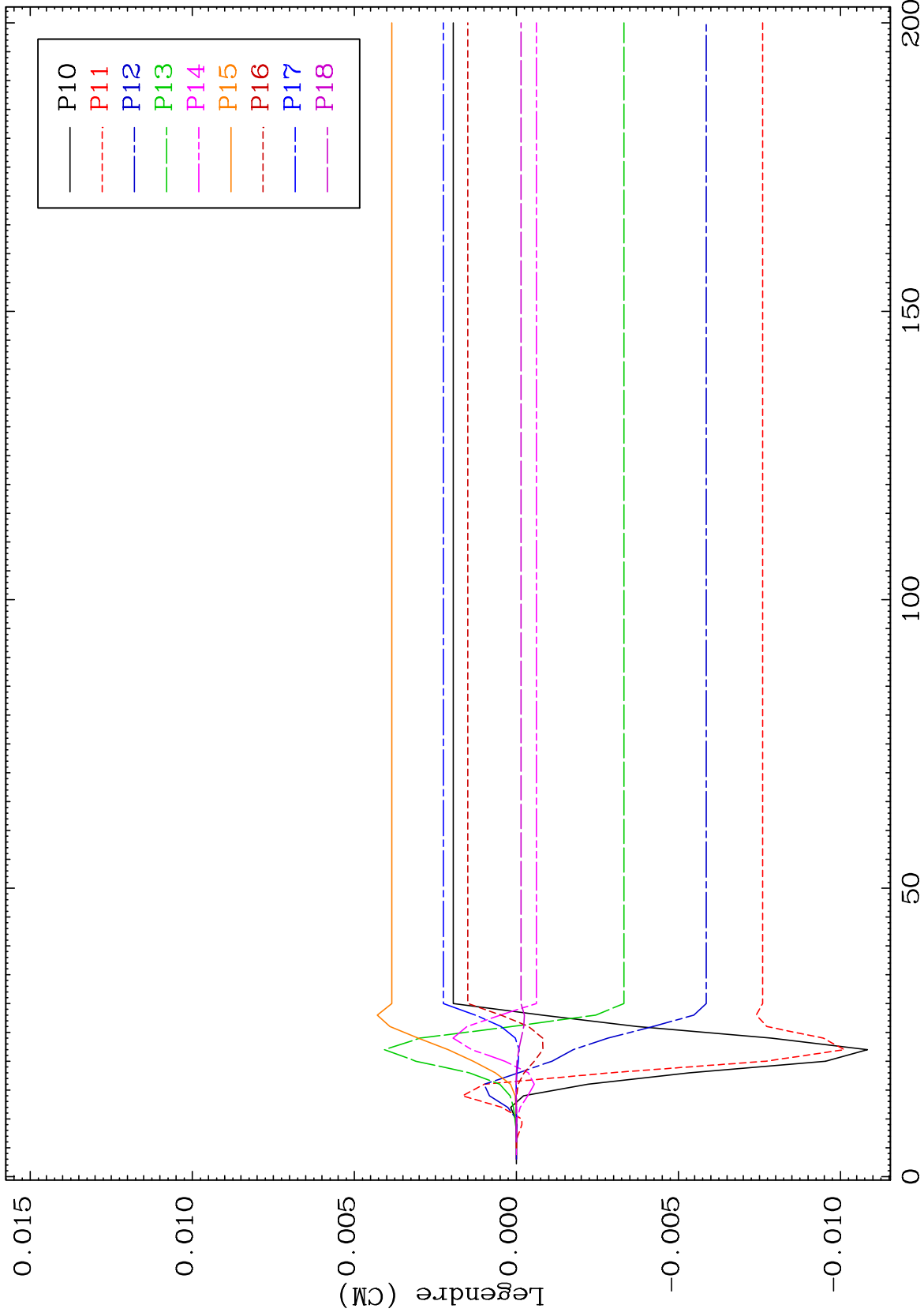




MAT 6143

1.284 MeV (n,n') Level  
Legendre Coefficients

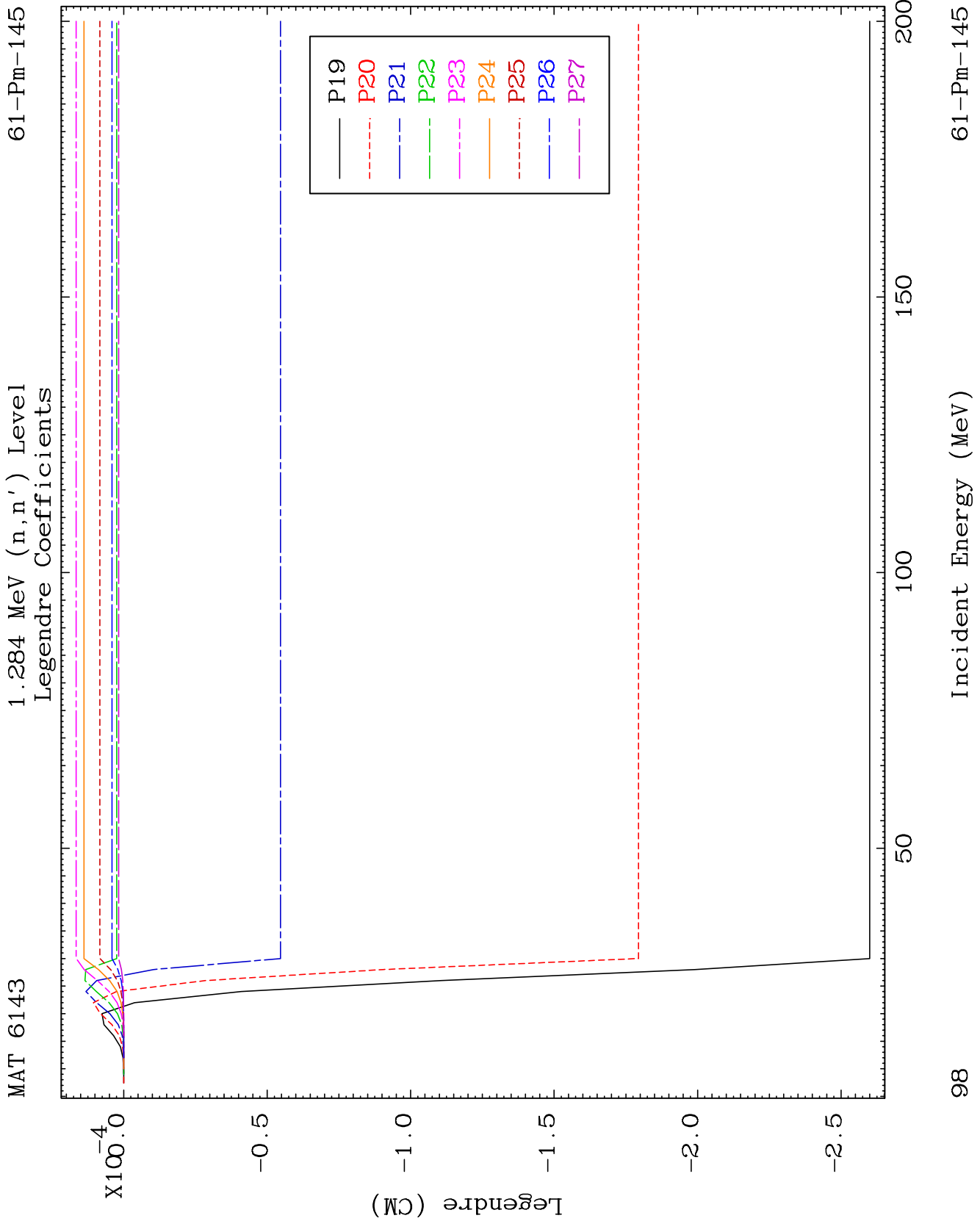
61-Pm-145

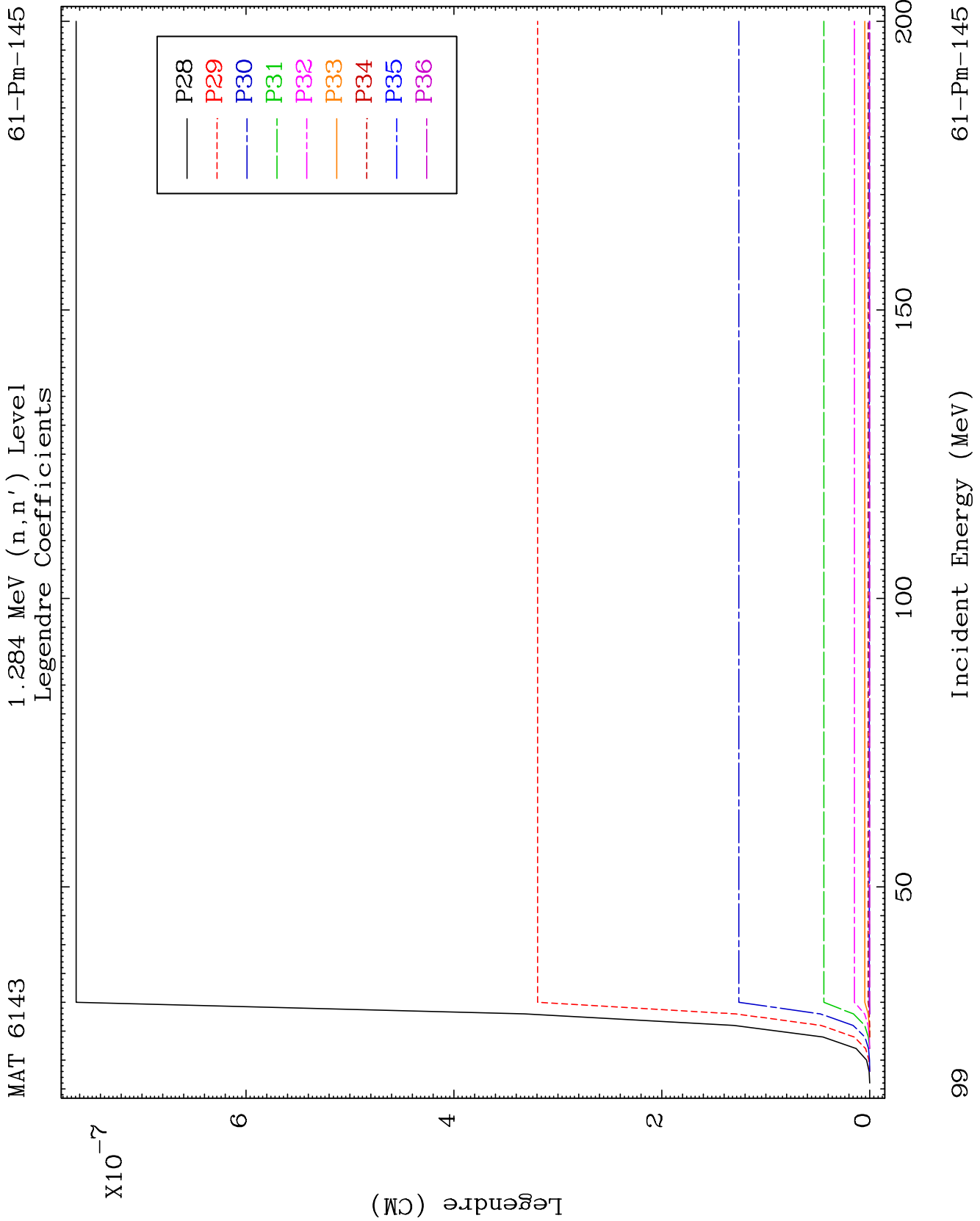


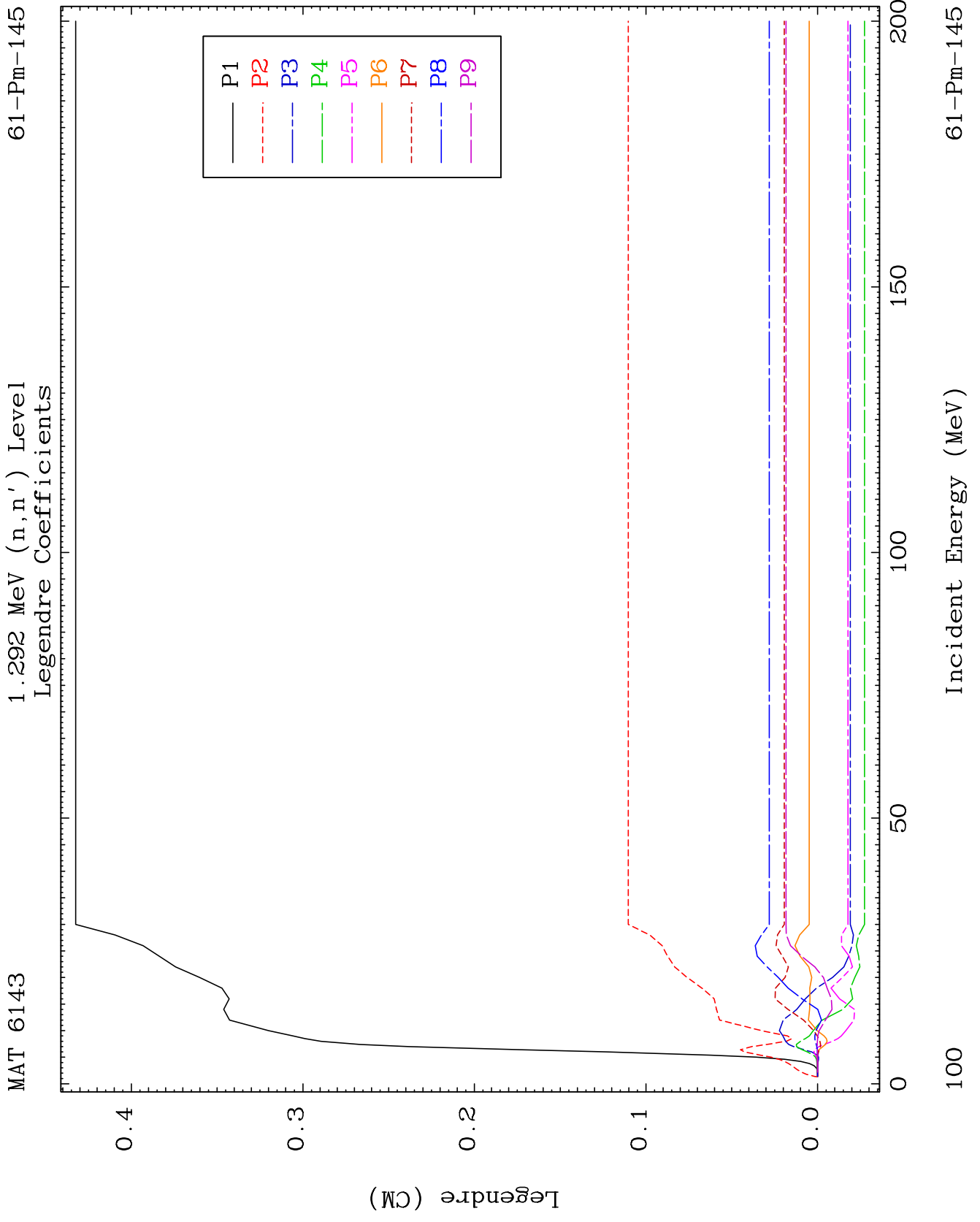
97

Incident Energy (MeV)

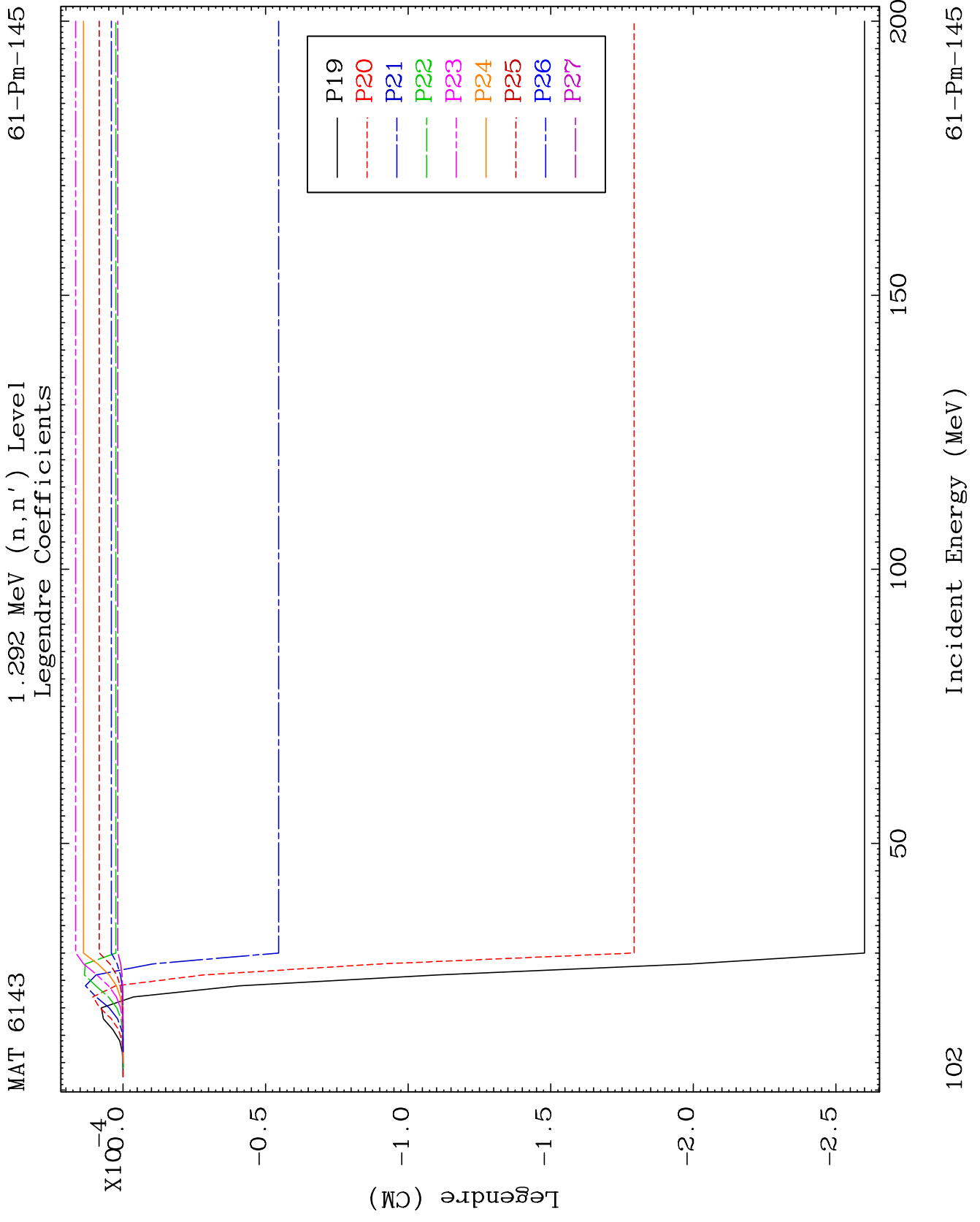
61-Pm-145

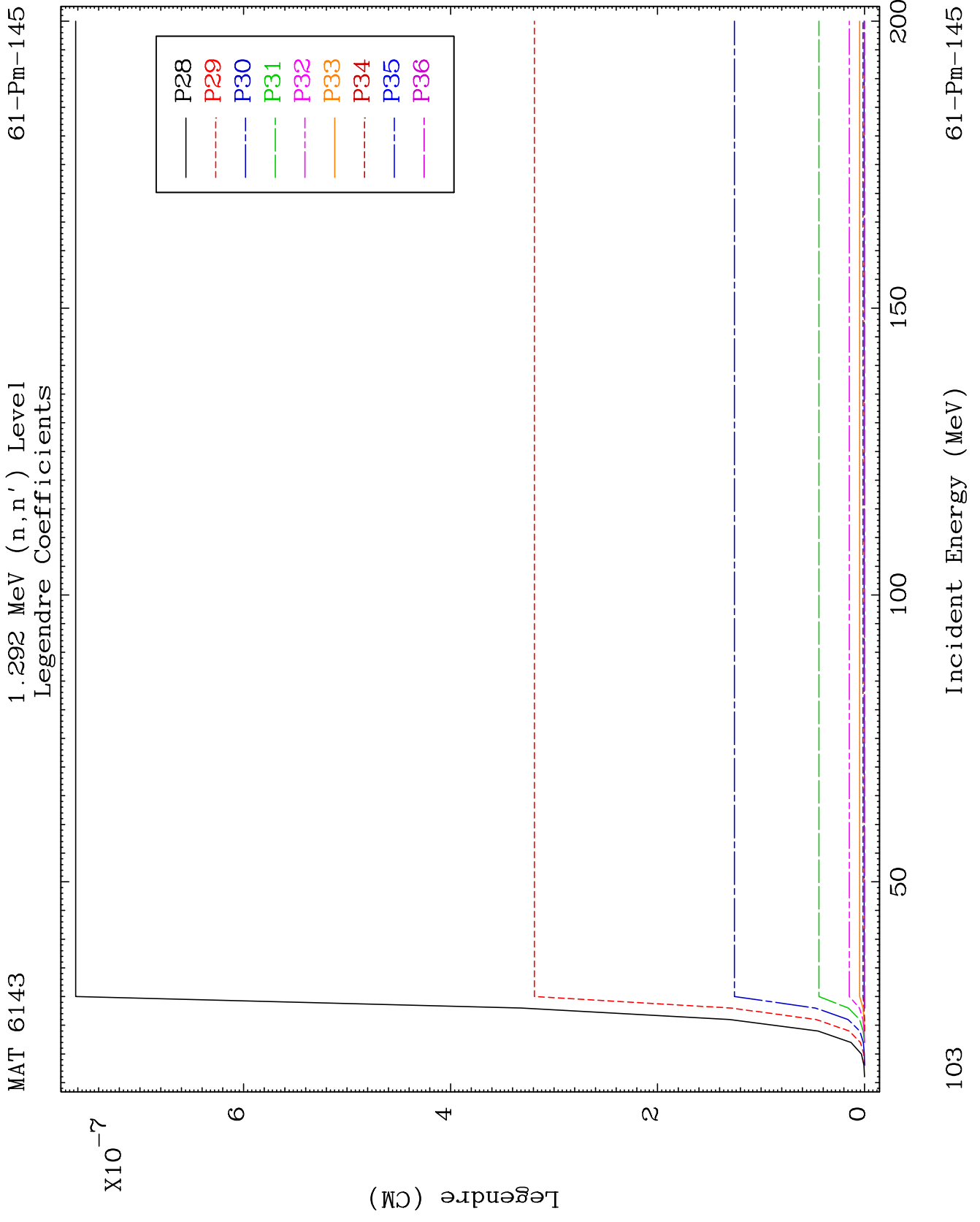




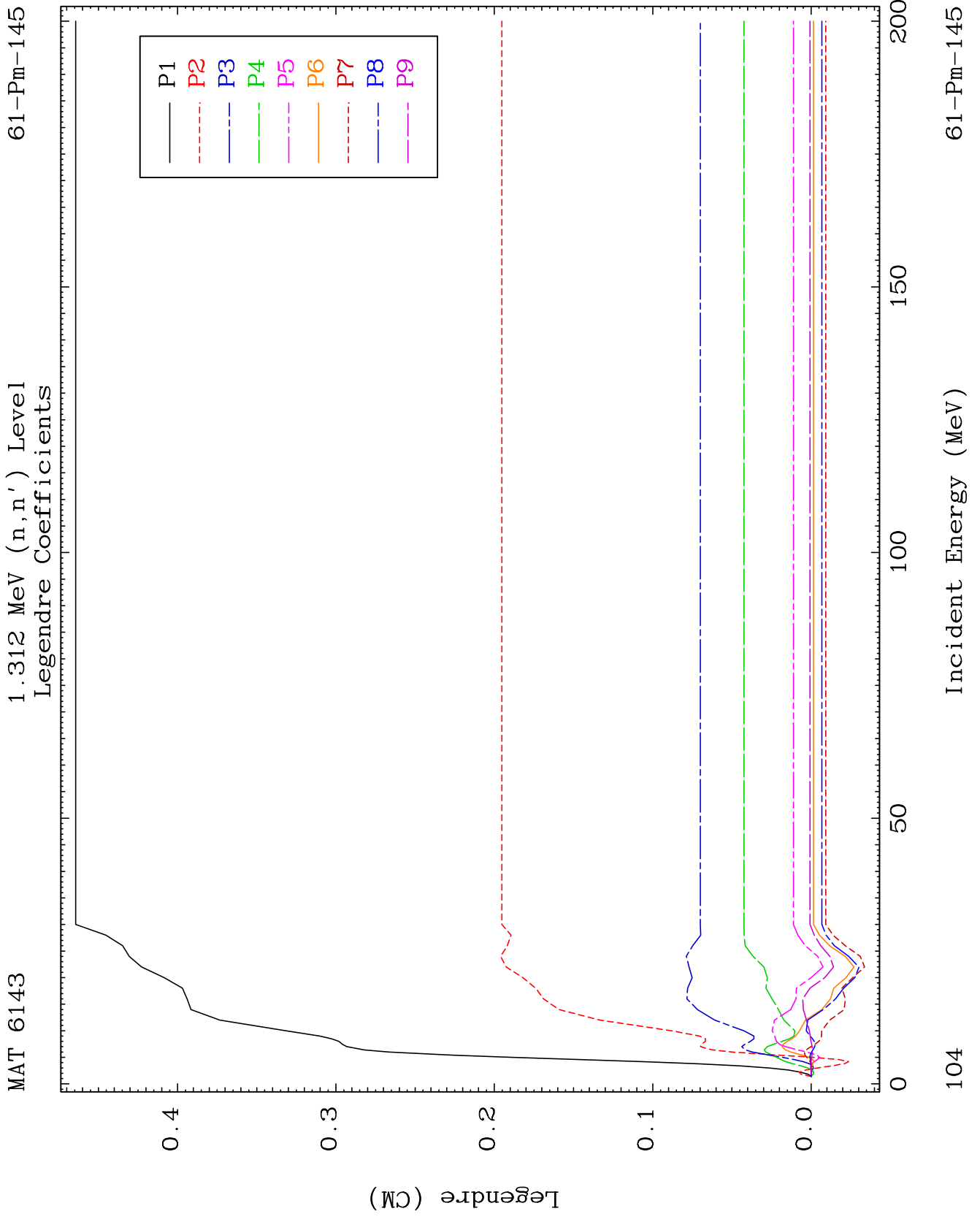


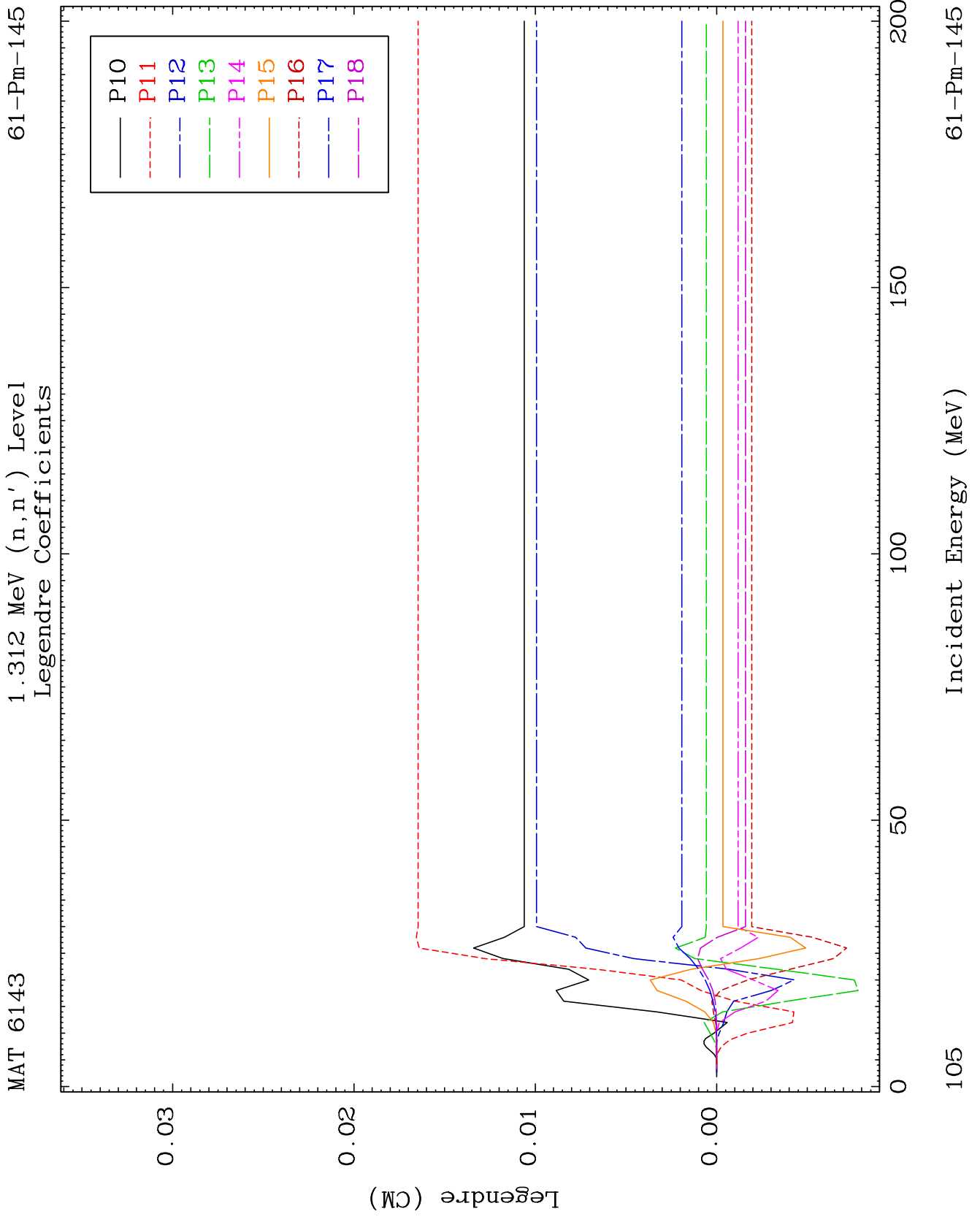








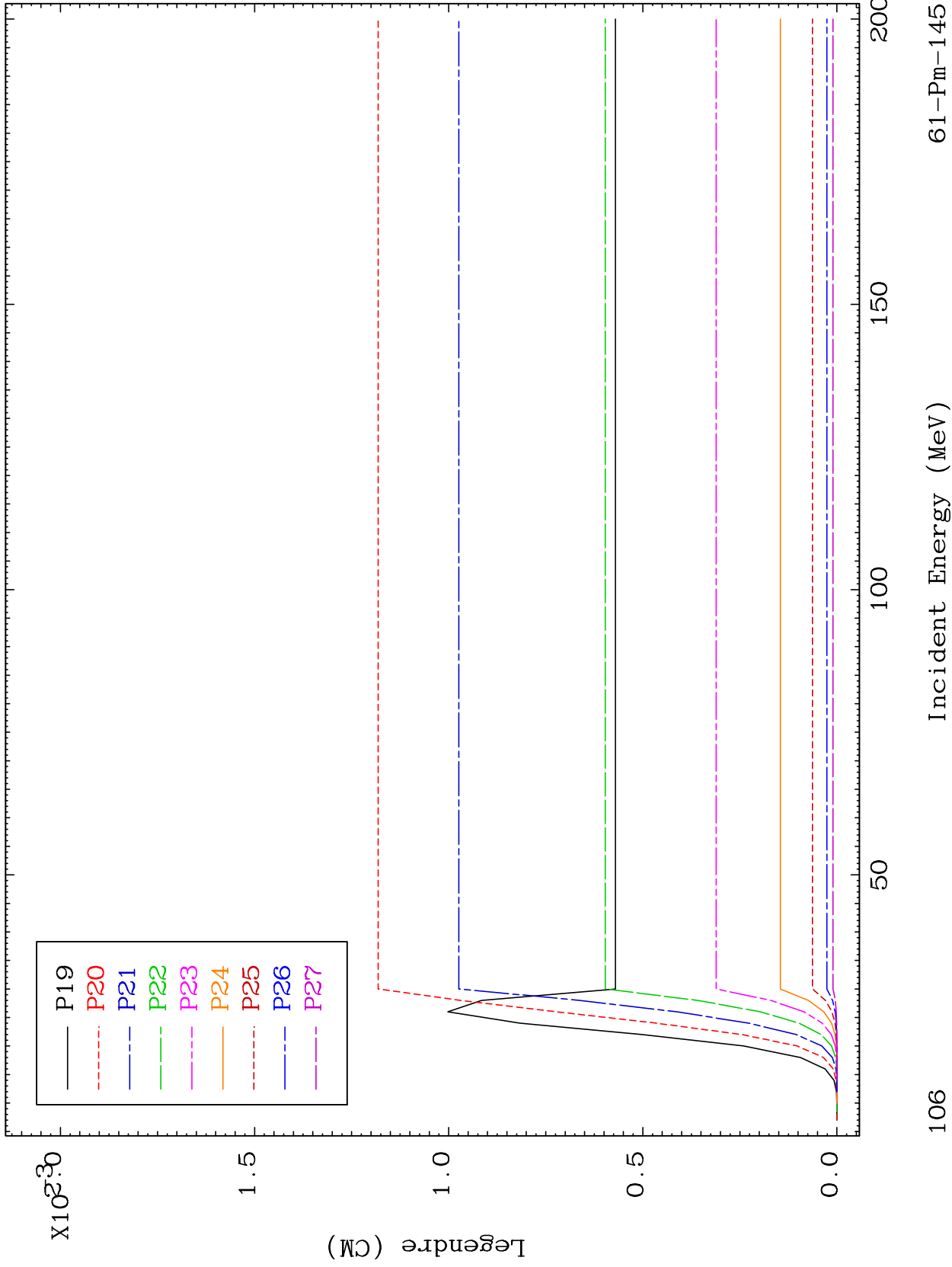




MAT 6143

1.312 MeV (n,n') Level  
Legendre Coefficients

61-Pm-145



106

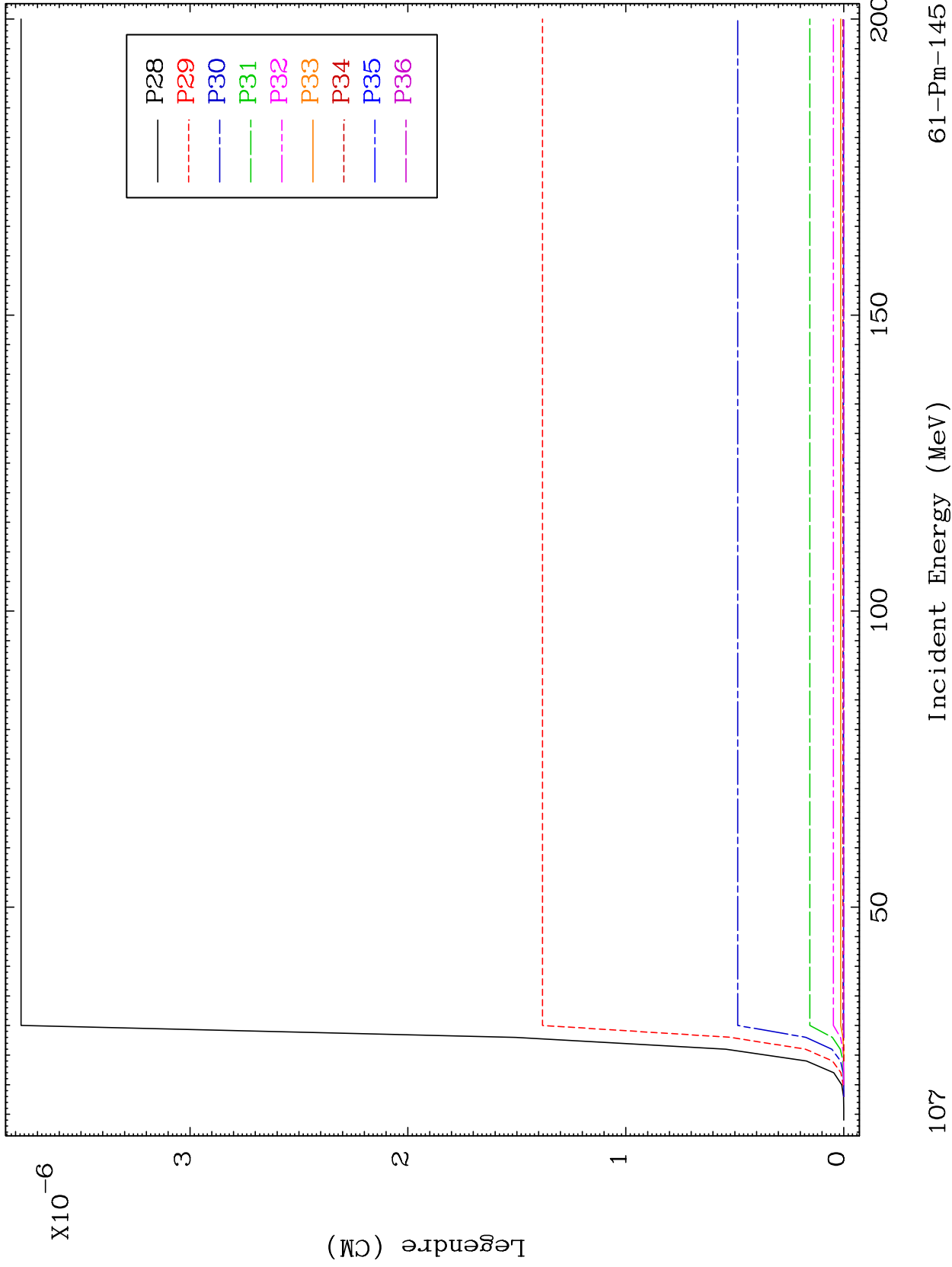
Incident Energy (MeV)

61-Pm-145

MAT 6143

1.312 MeV (n,n') Level  
Legendre Coefficients

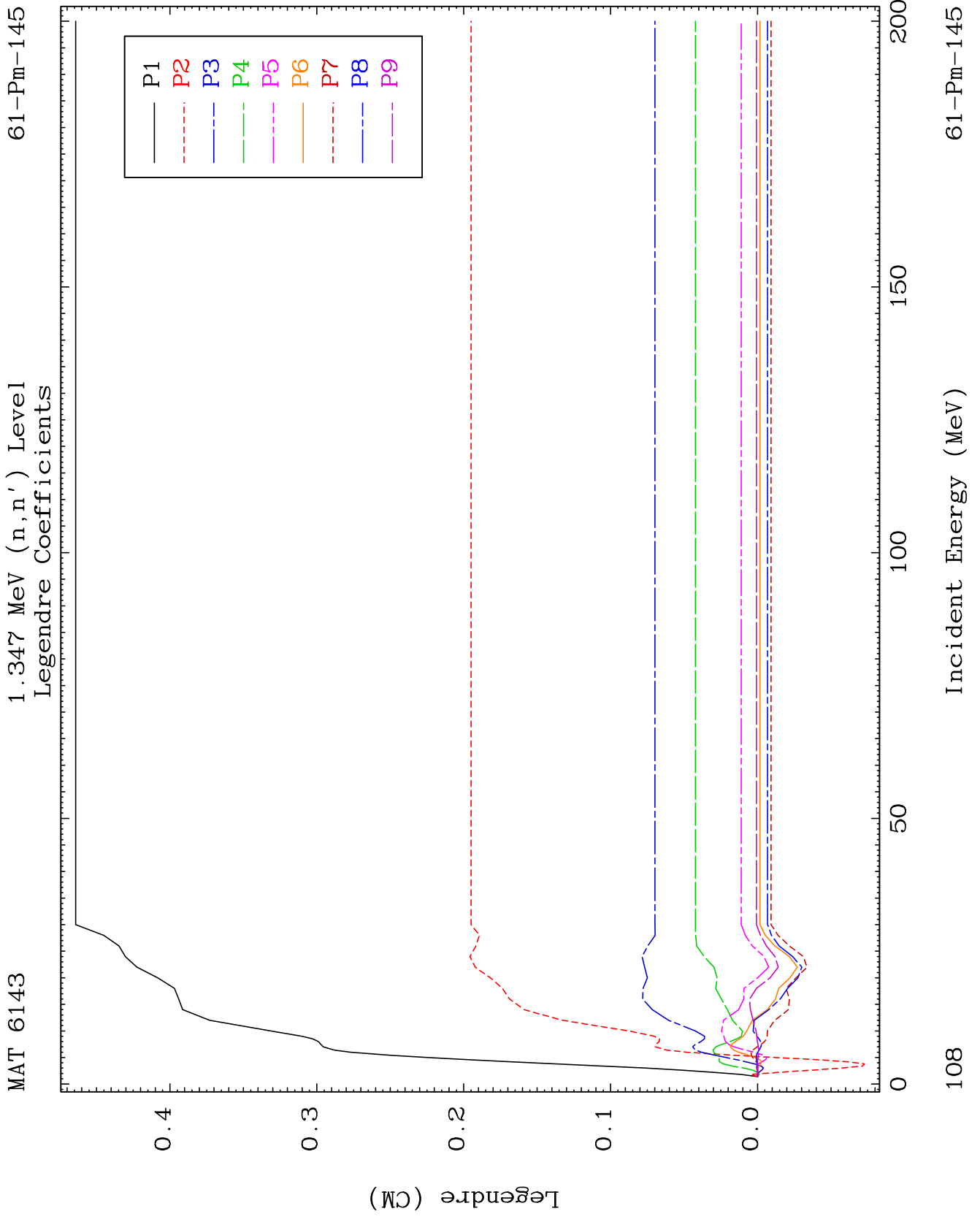
61-Pm-145



107

Incident Energy (MeV)

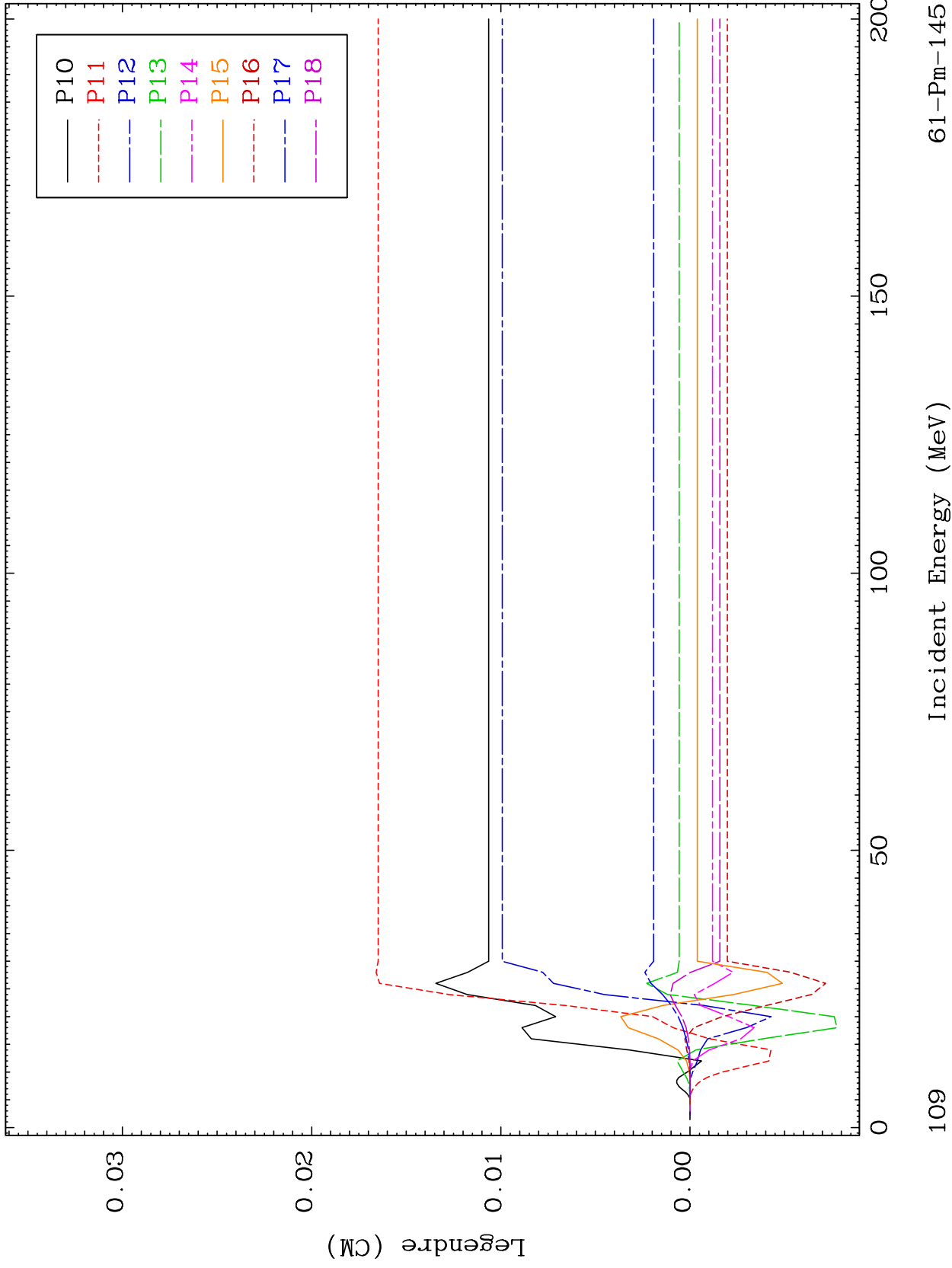
61-Pm-145



MAT 6143

1.347 MeV (n,n') Level  
Legendre Coefficients

61-Pm-145



61-Pm-145

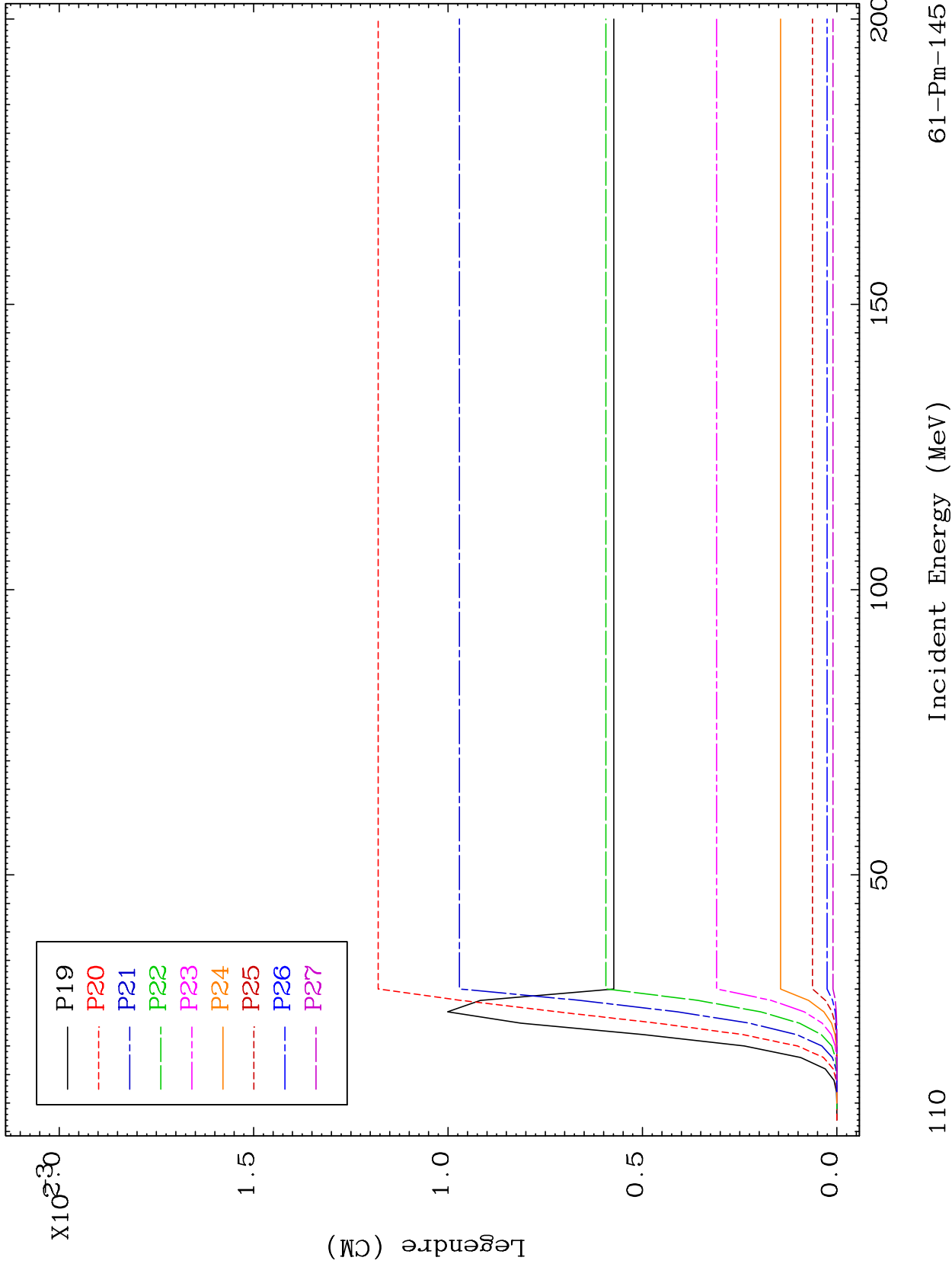
Incident Energy (MeV)

109

MAT 6143

1.347 MeV (n, n') Level  
Legendre Coefficients

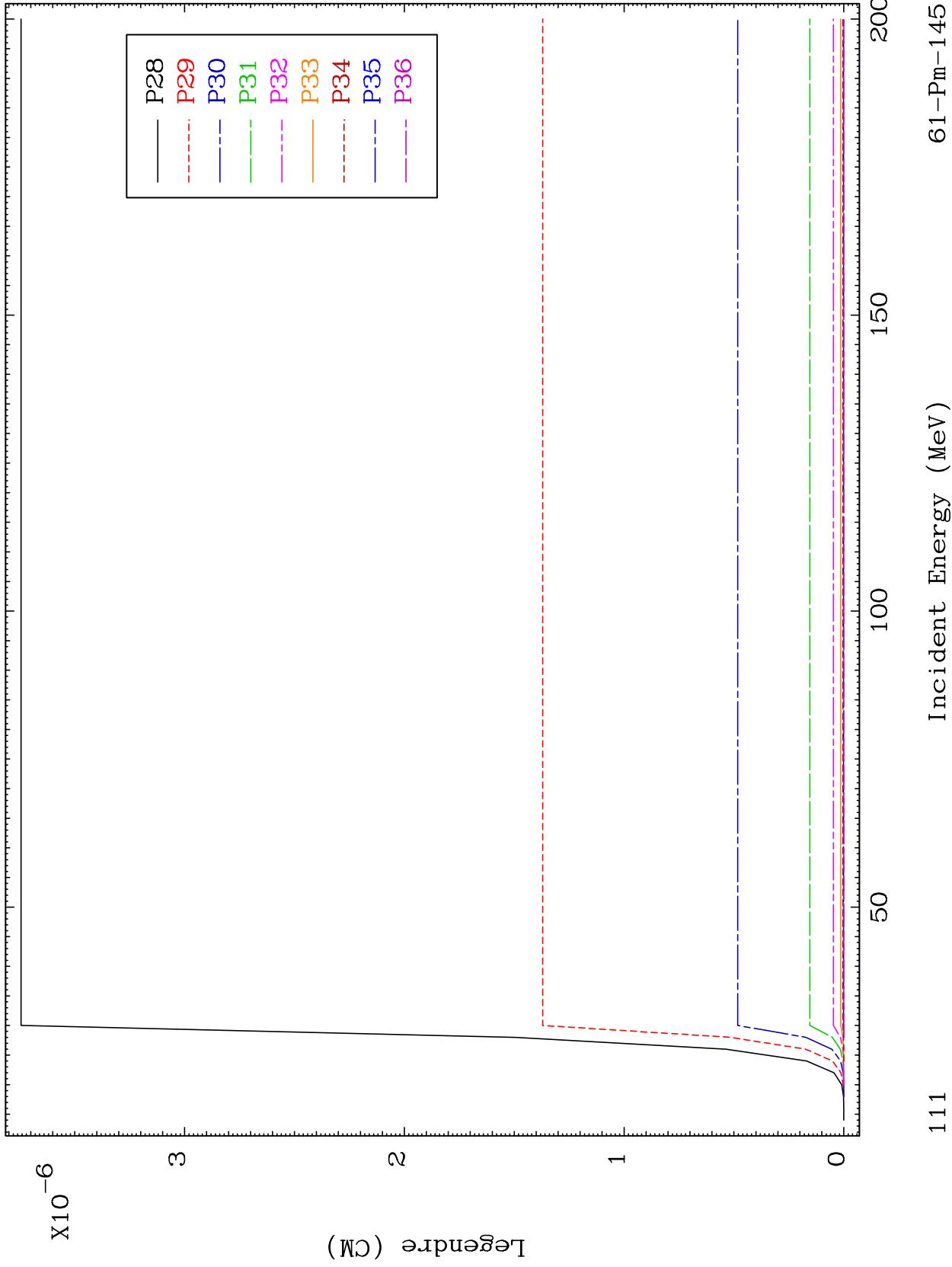
61-Pm-145



MAT 6143

1.347 MeV (n,n') Level  
Legendre Coefficients

61-Pm-145

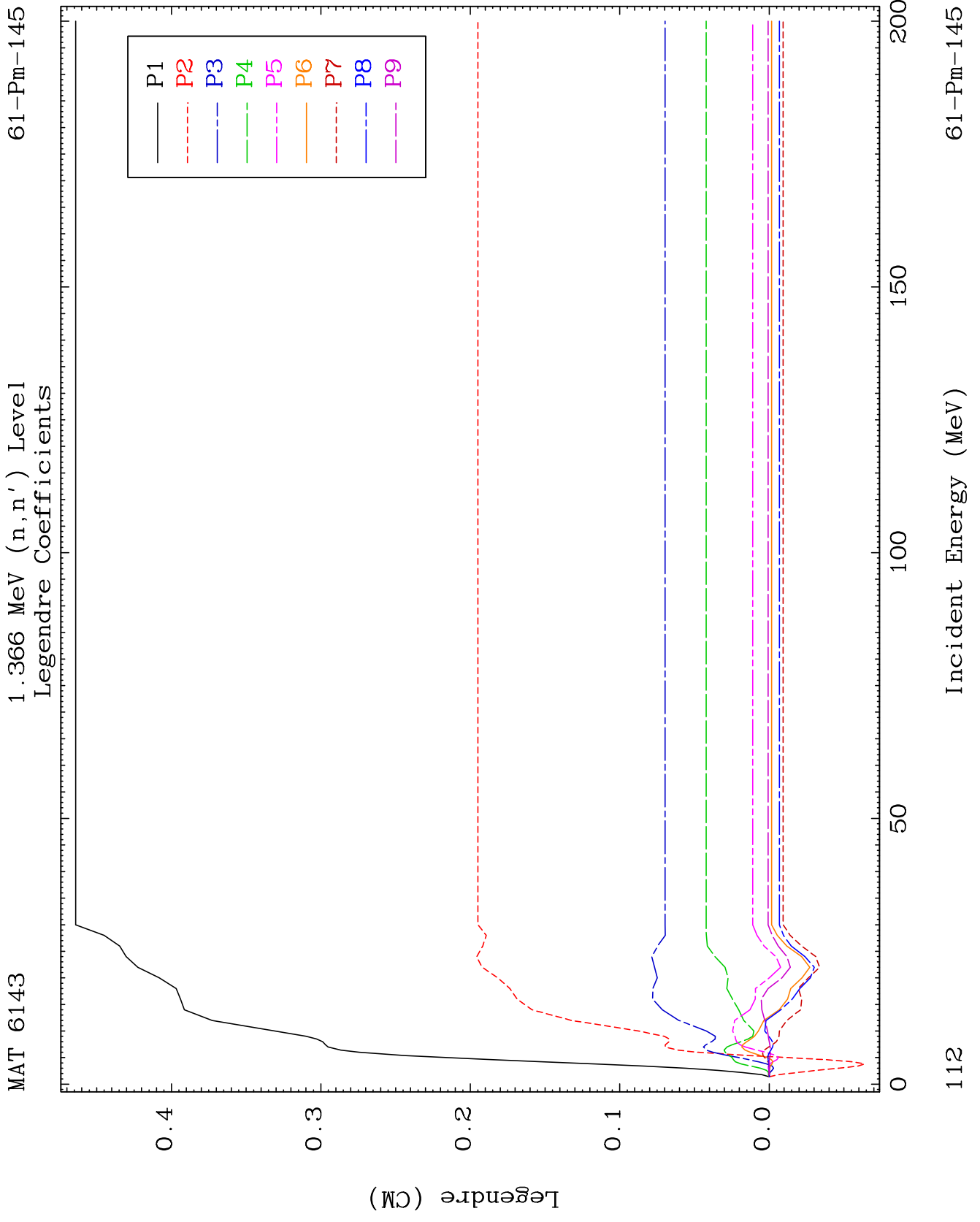


111

Incident Energy (MeV)

61-Pm-145



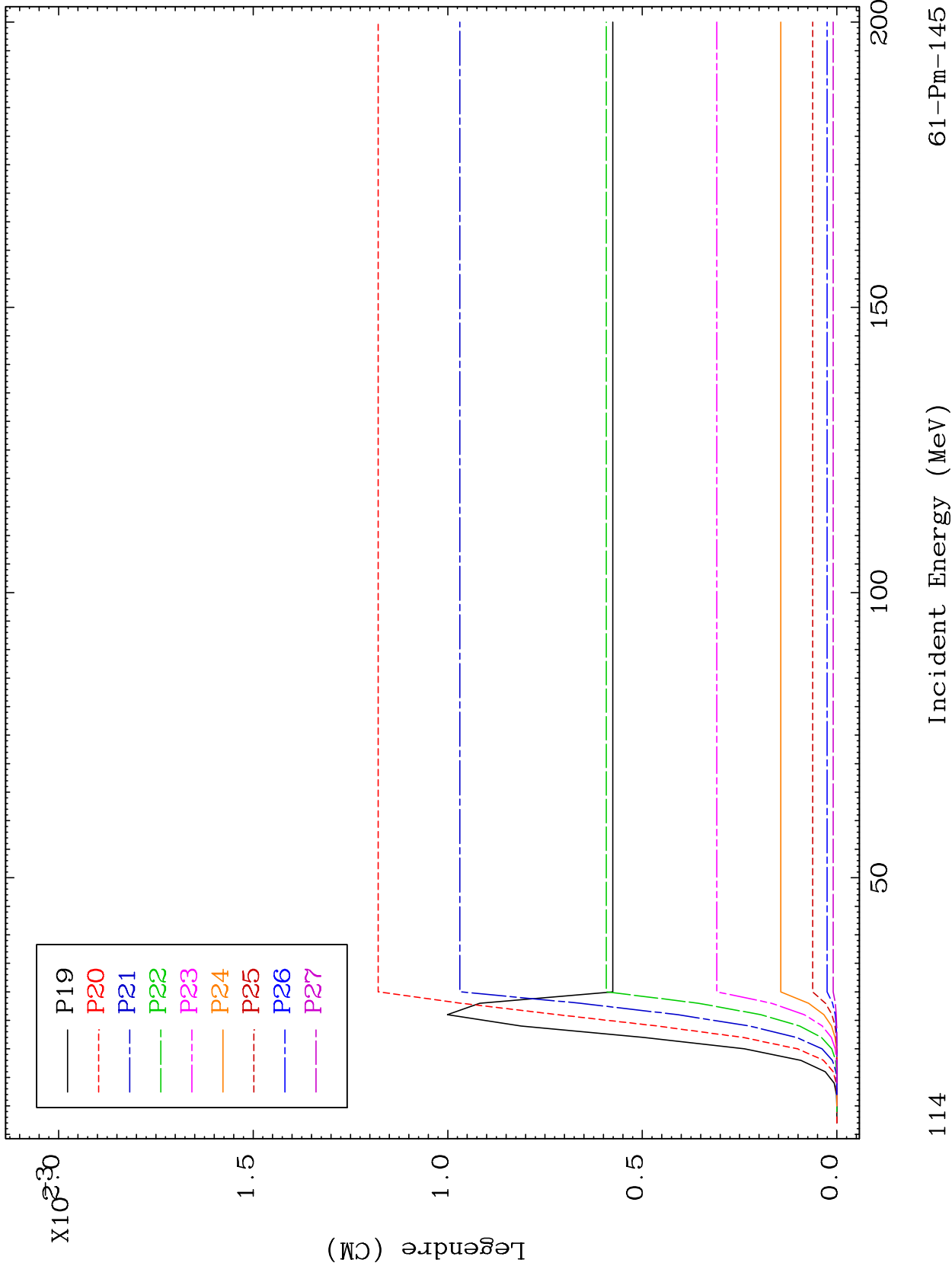




MAT 6143

1.366 MeV (n,n') Level  
Legendre Coefficients

61-Pm-145



114

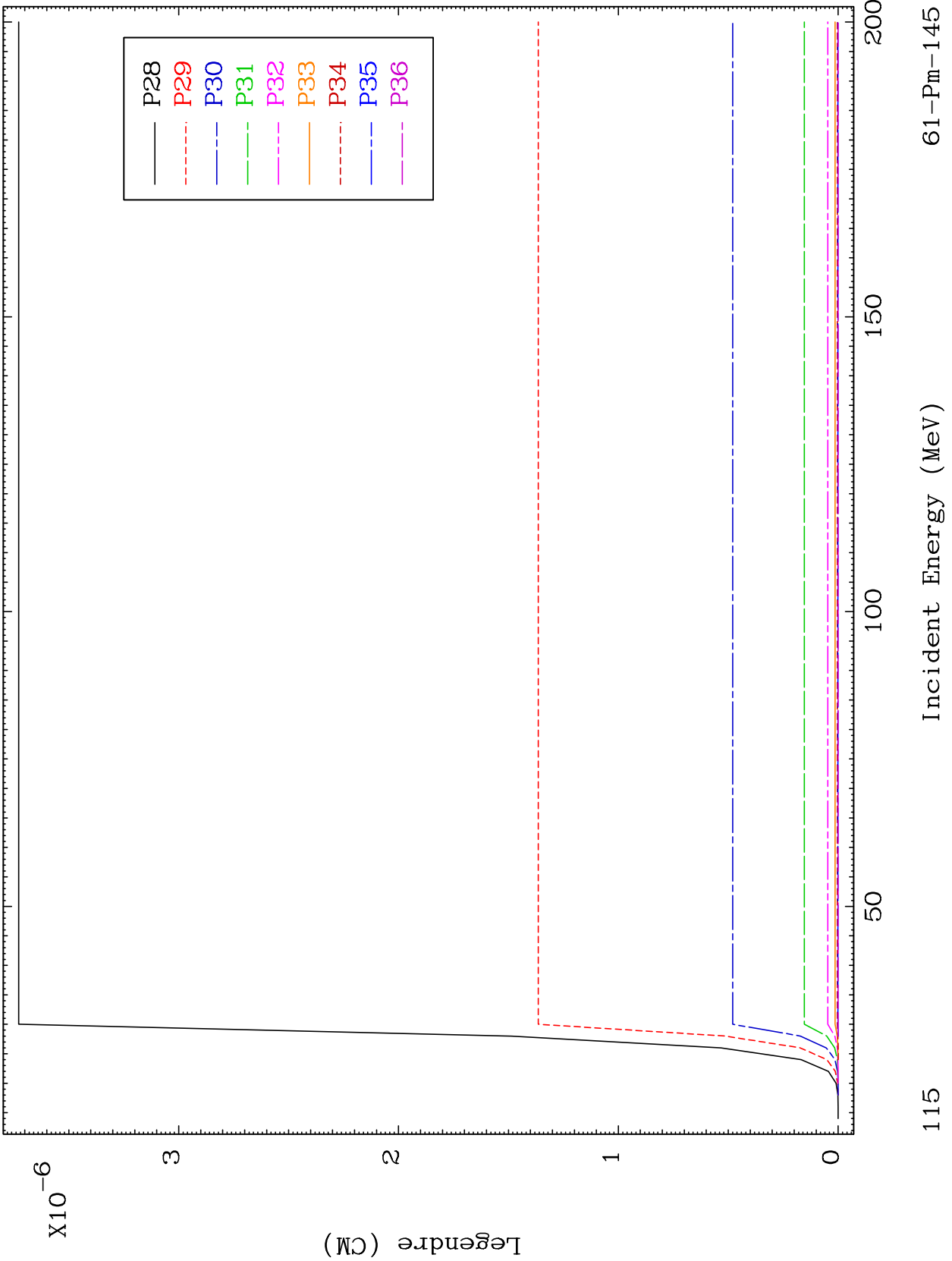
Incident Energy (MeV)

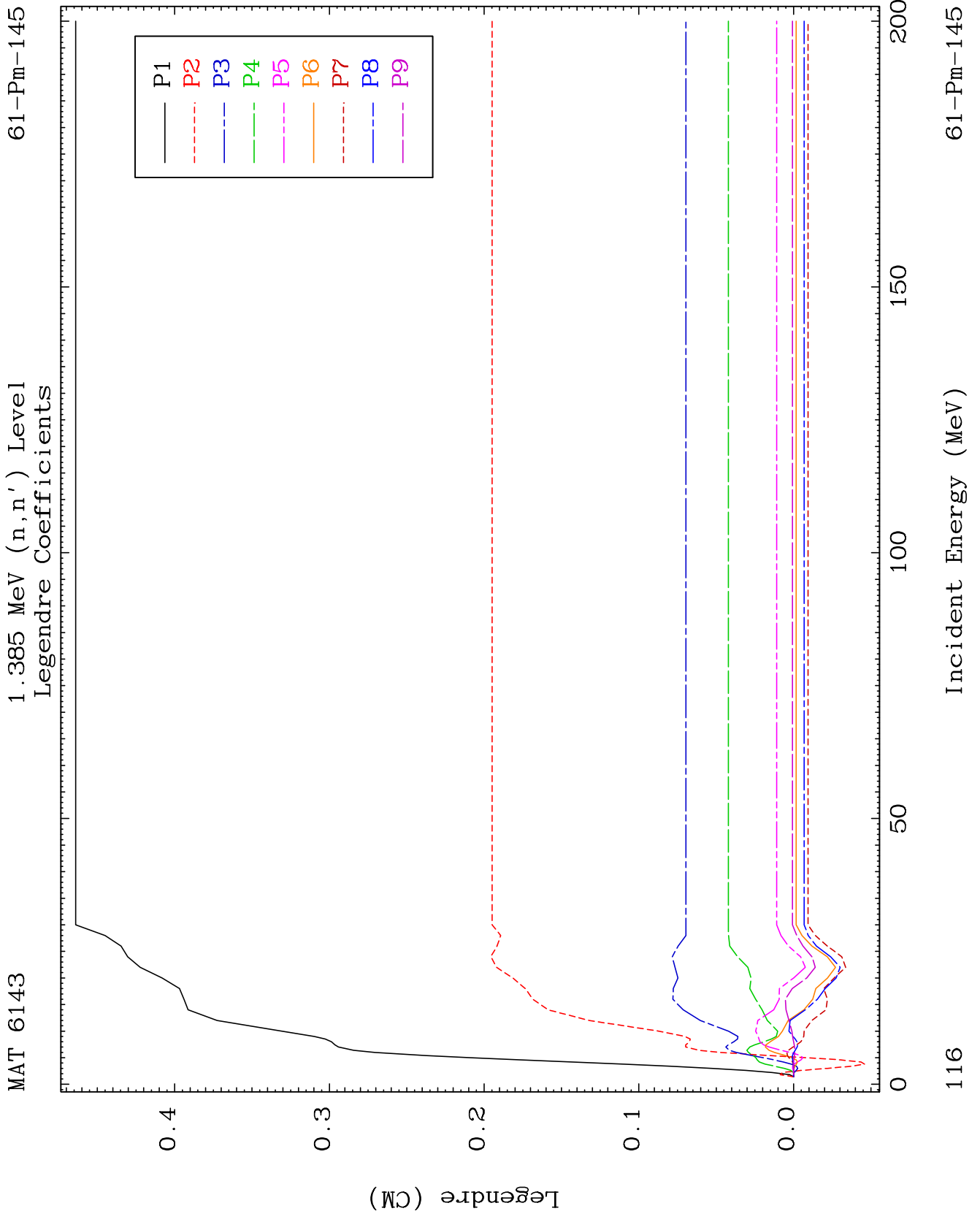
61-Pm-145

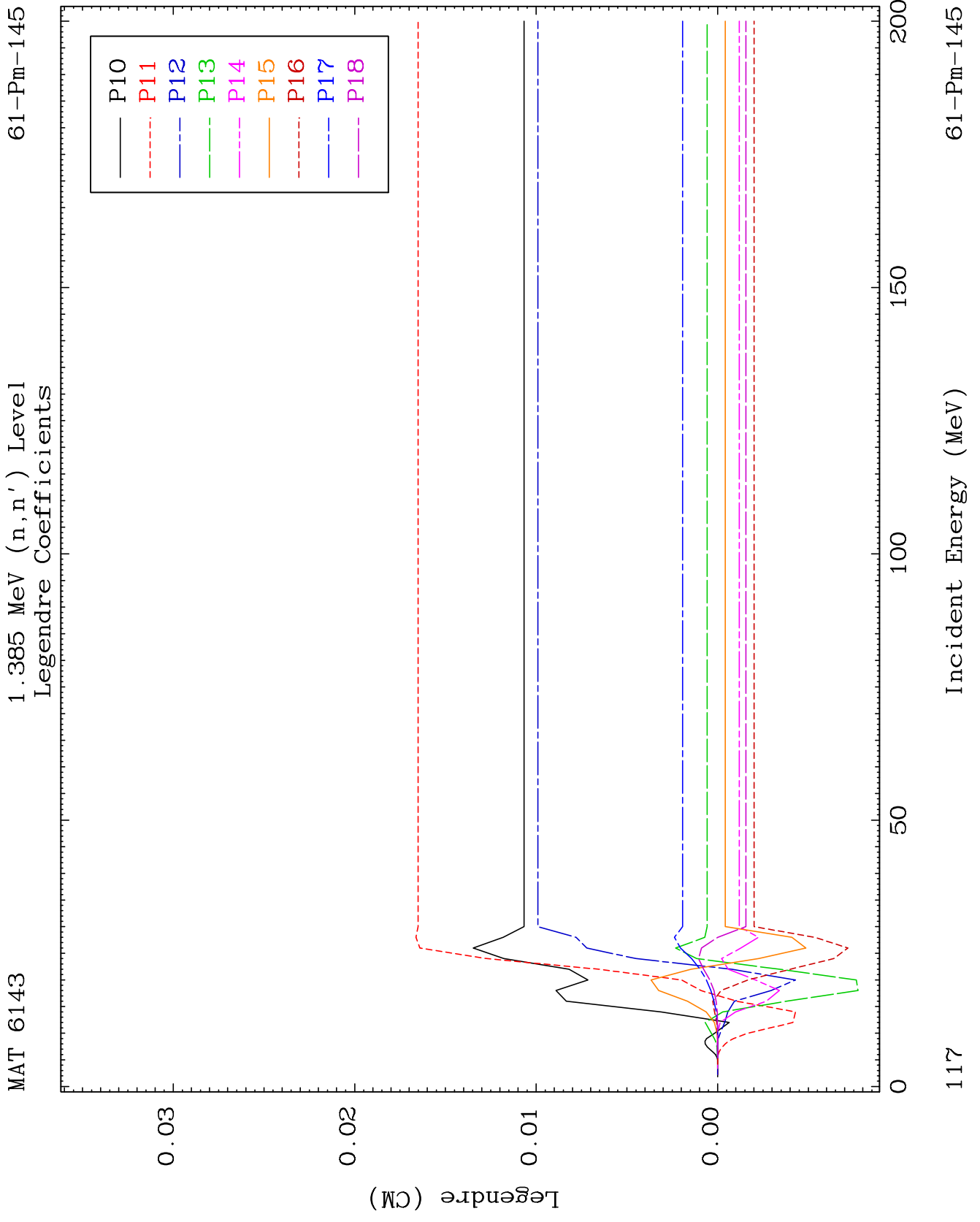
MAT 6143

1.366 MeV (n,n') Level  
Legendre Coefficients

61-Pm-145



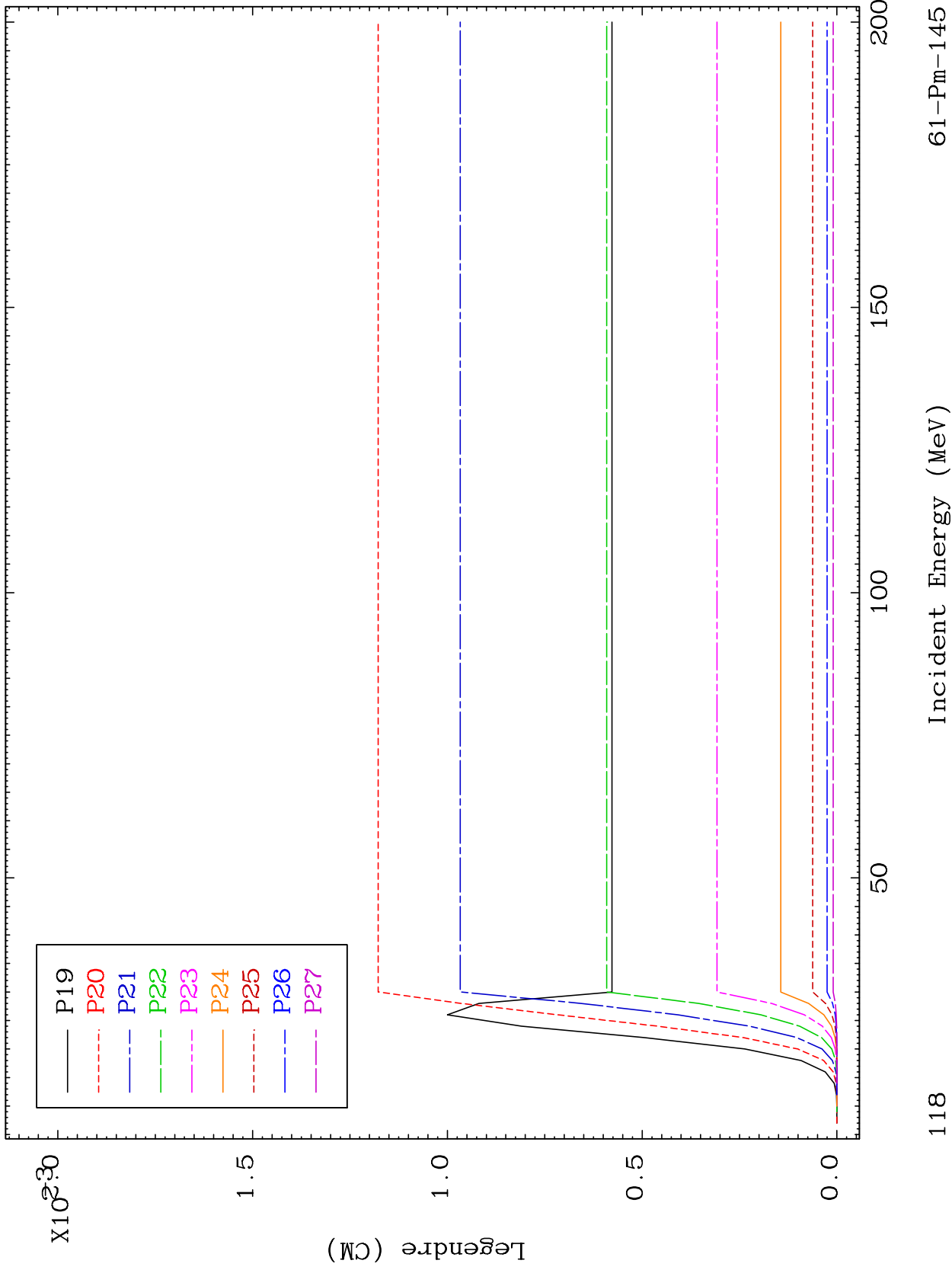




MAT 6143

1.385 MeV (n,n') Level  
Legendre Coefficients

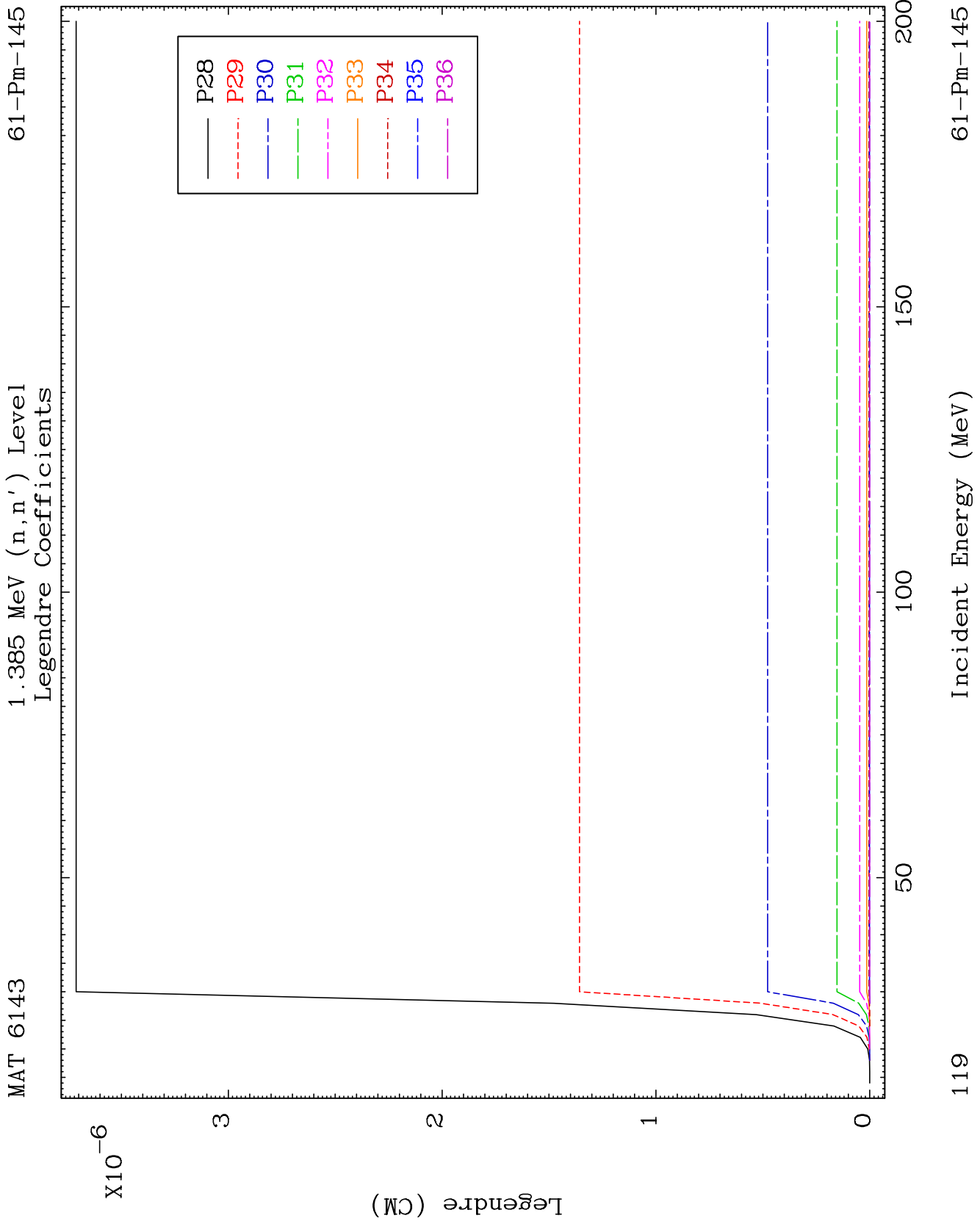
61-Pm-145



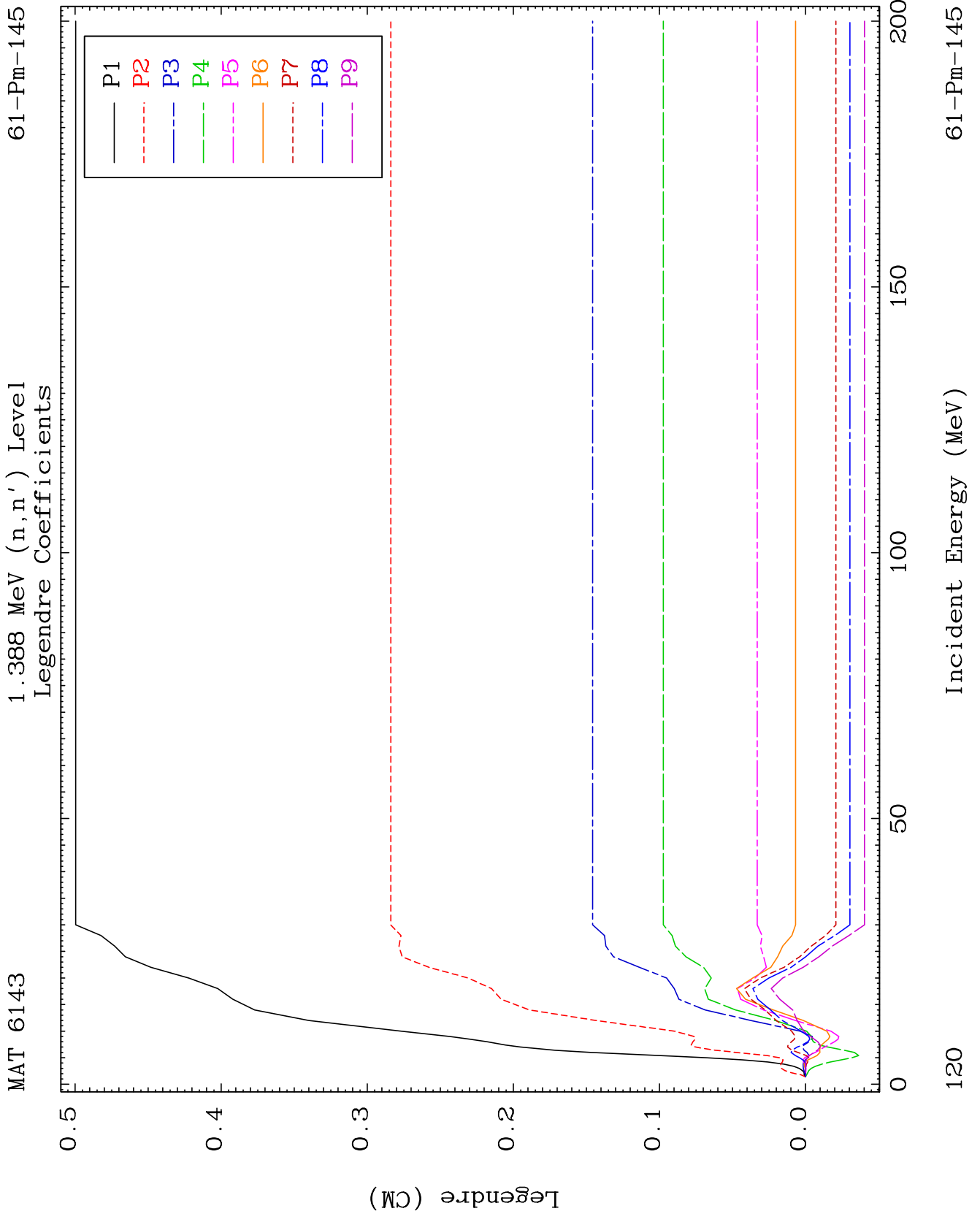
118

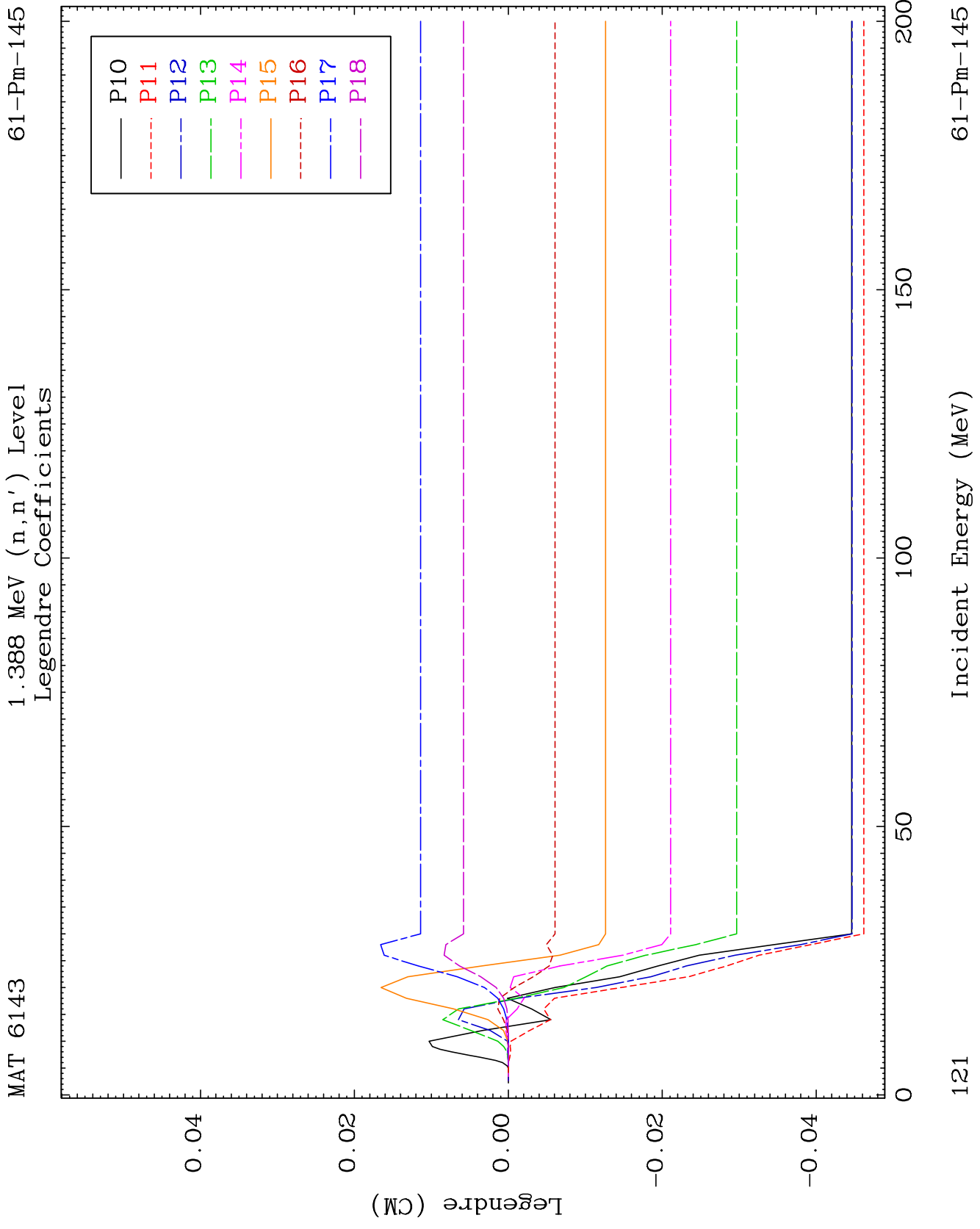
Incident Energy (MeV)

61-Pm-145





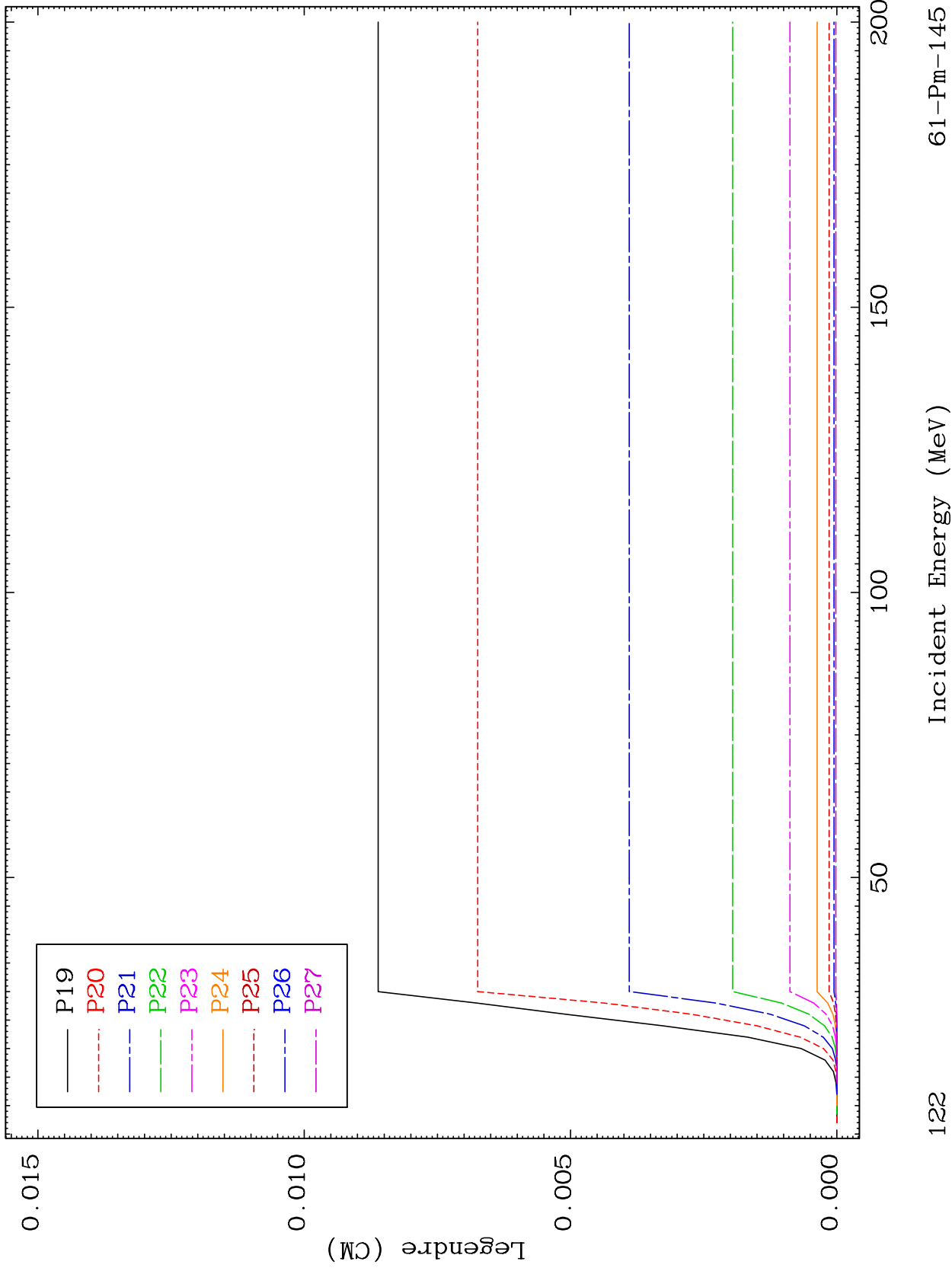




MAT 6143

1.388 MeV (n,n') Level  
Legendre Coefficients

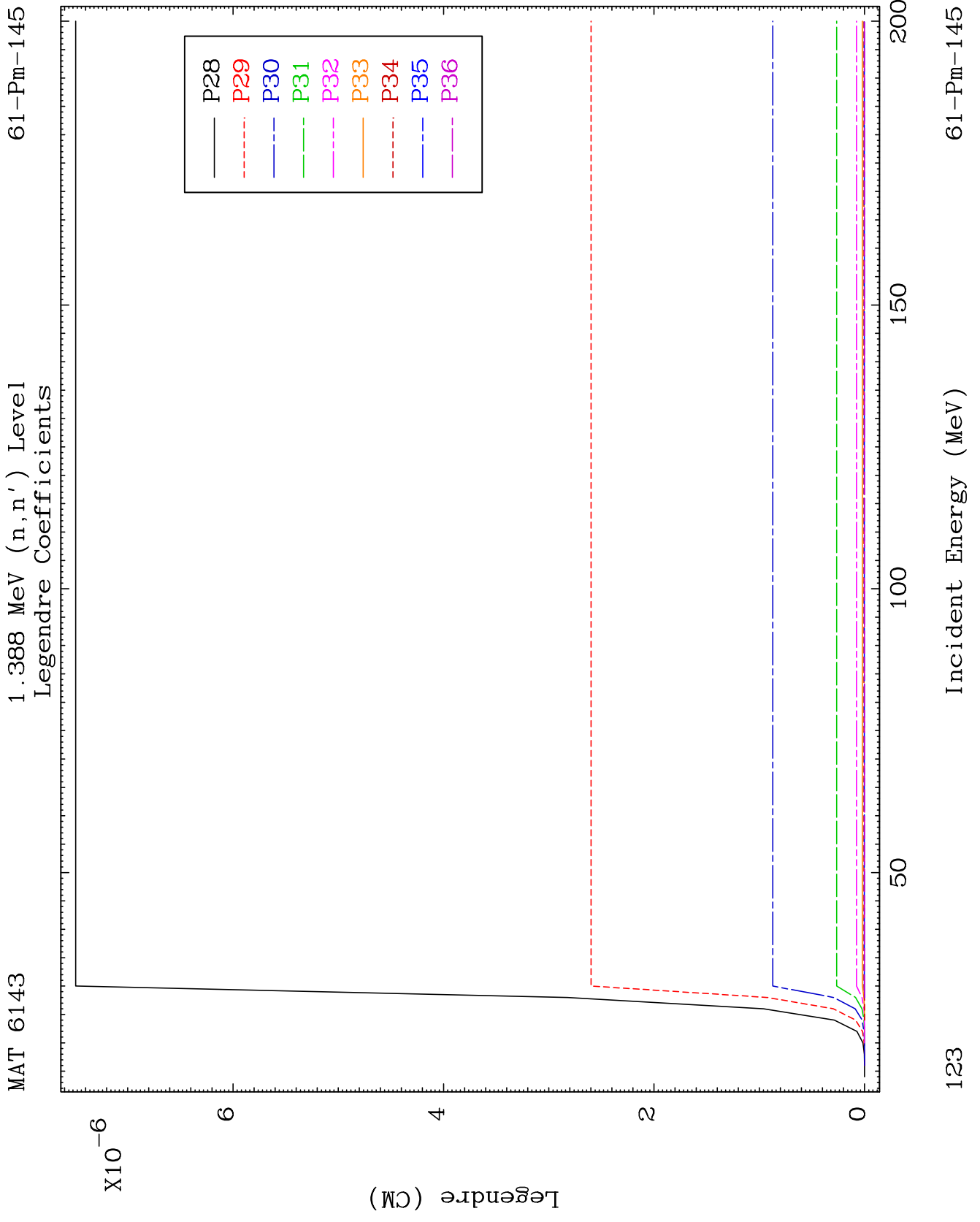
61-Pm-145

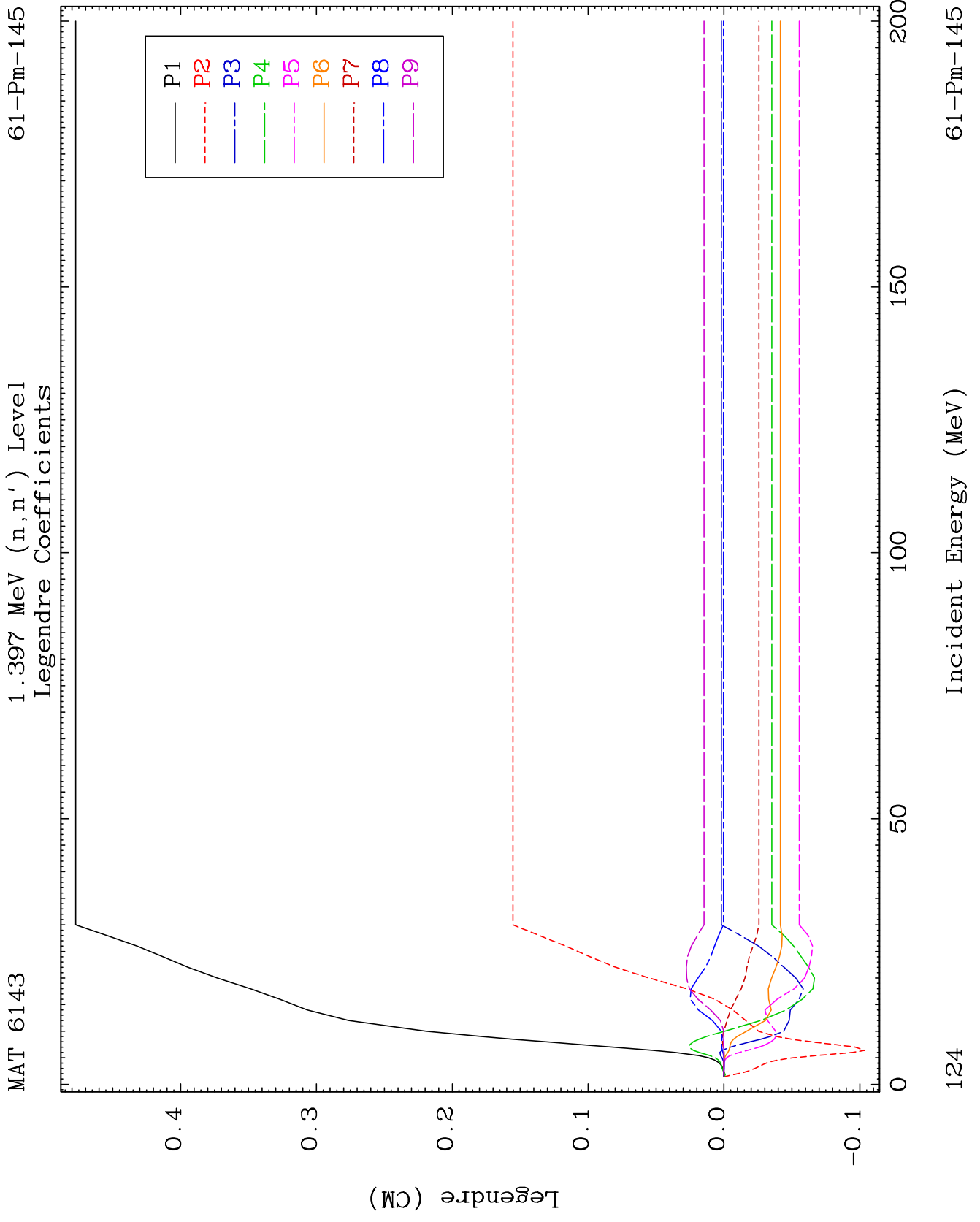


122

Incident Energy (MeV)

61-Pm-145

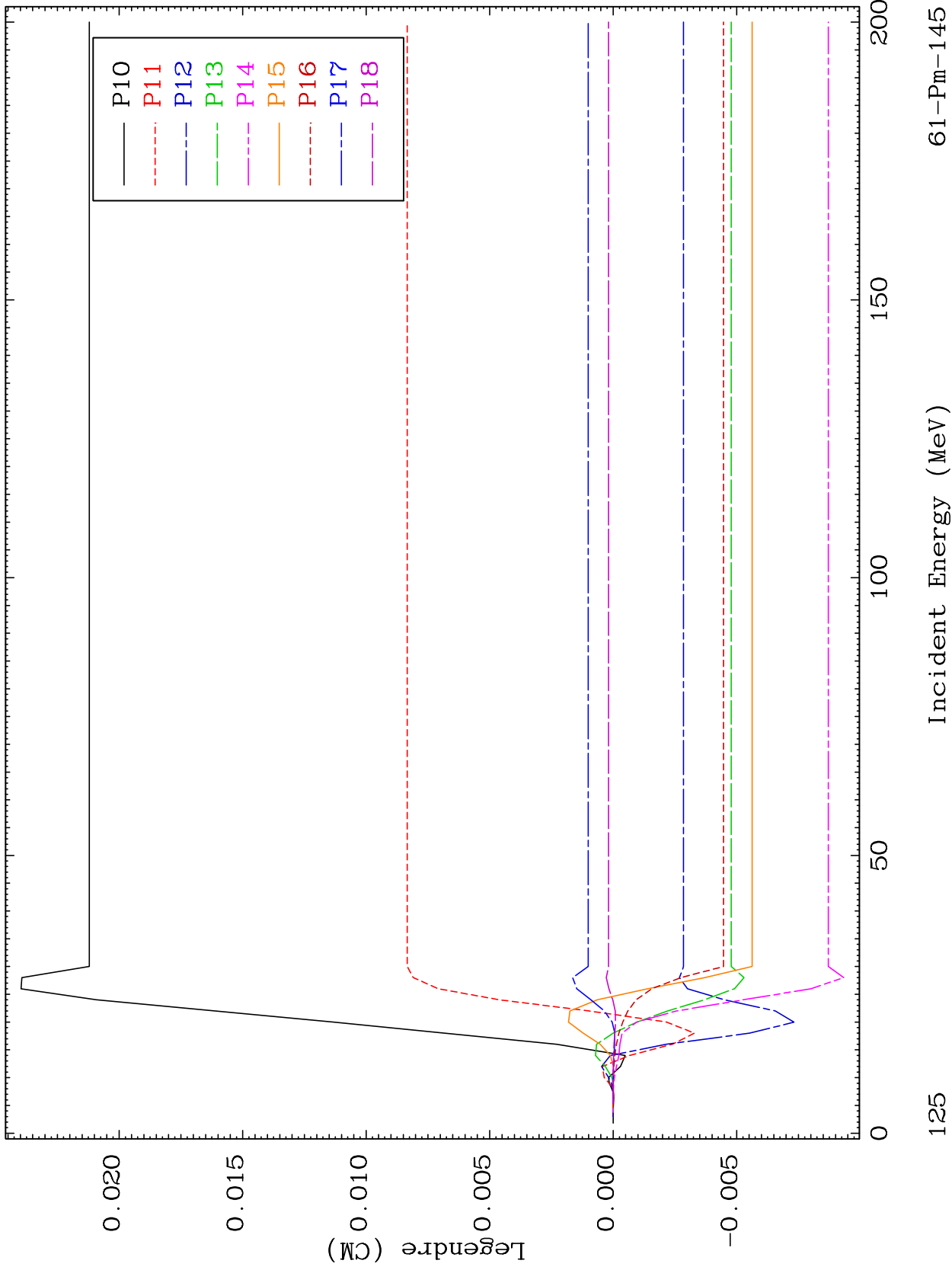




MAT 6143

1.397 MeV (n,n') Level  
Legendre Coefficients

61-Pm-145



125

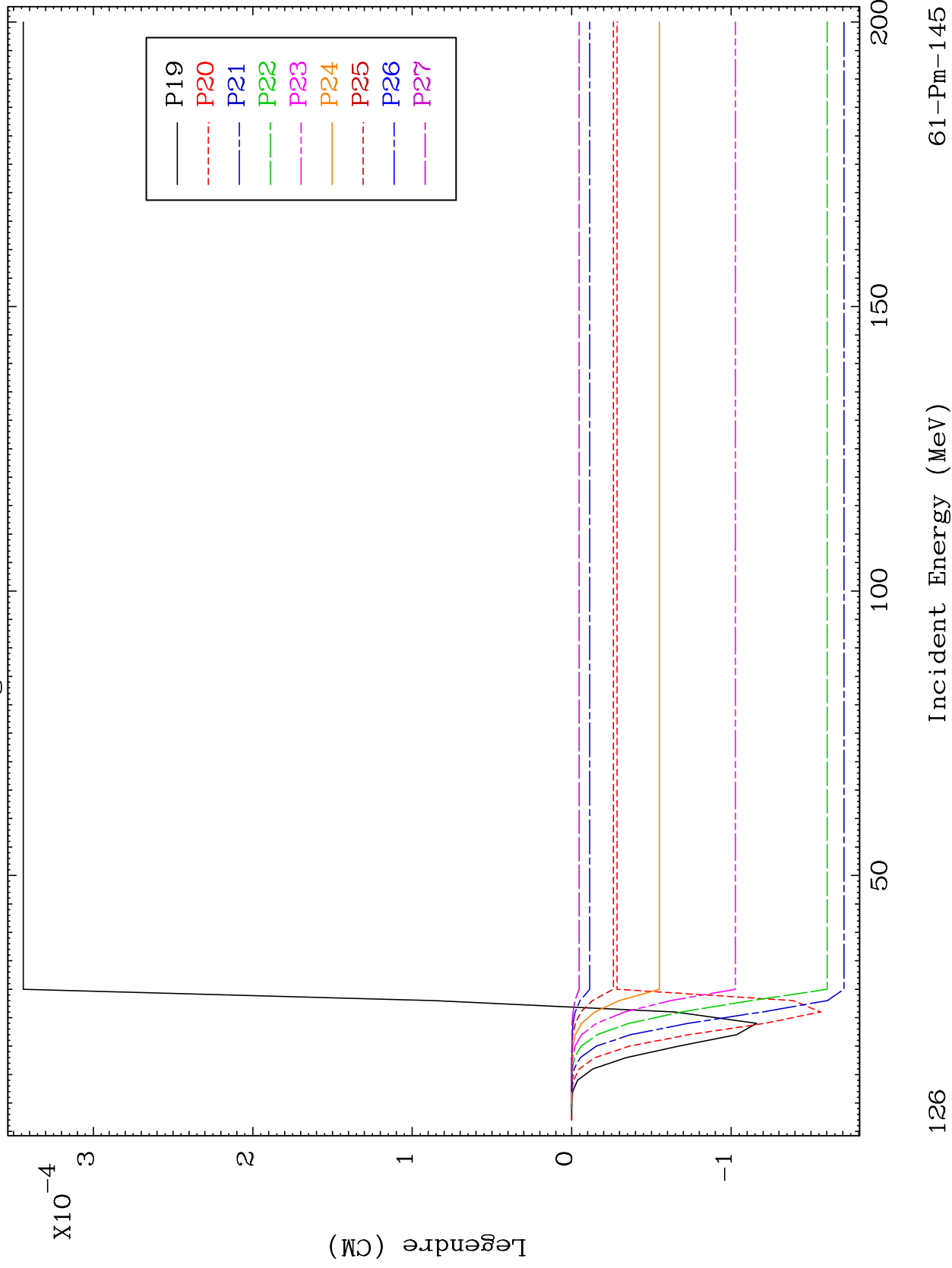
Incident Energy (MeV)

61-Pm-145

MAT 6143

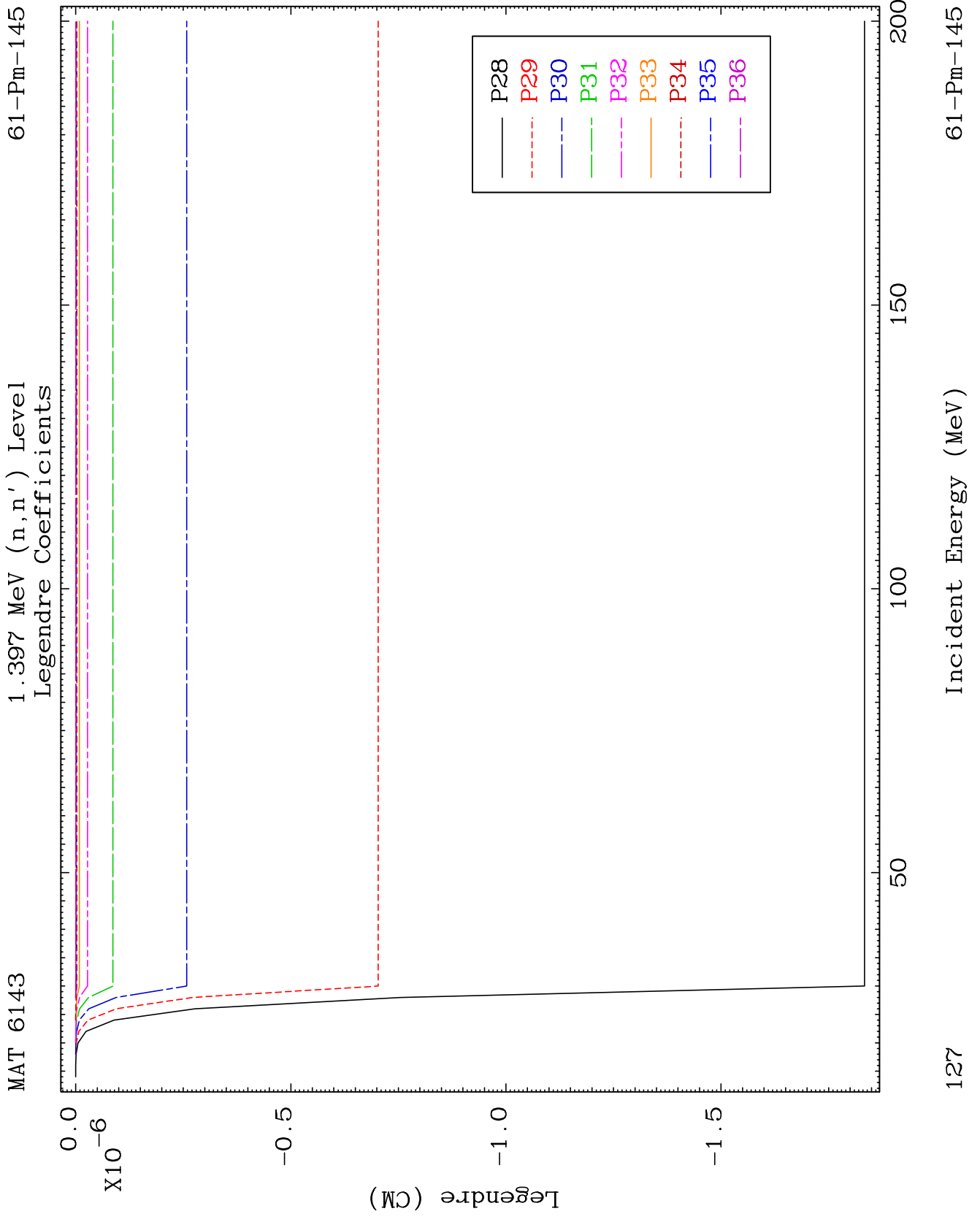
1.397 MeV (n,n') Level  
Legendre Coefficients

61-Pm-145



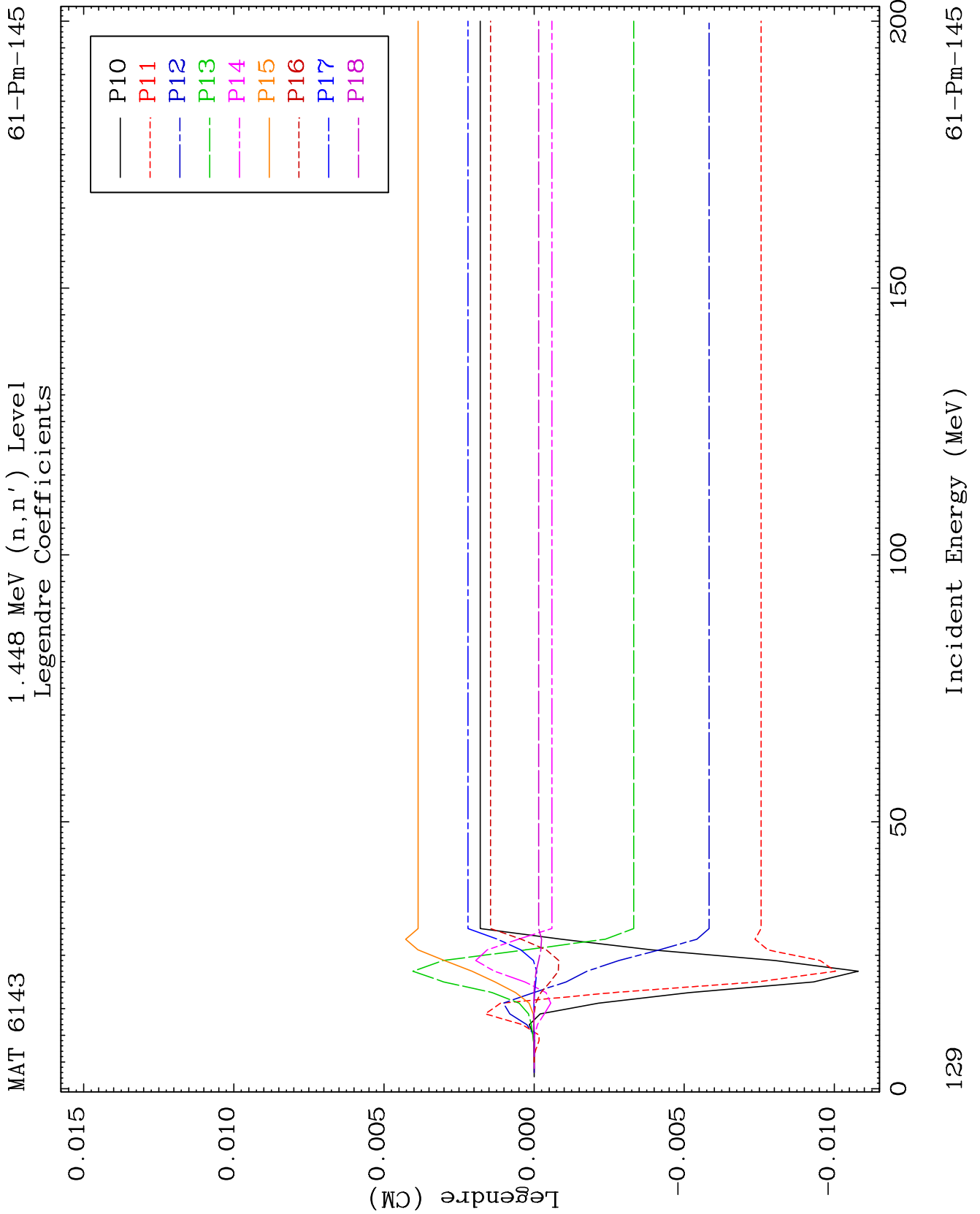
126

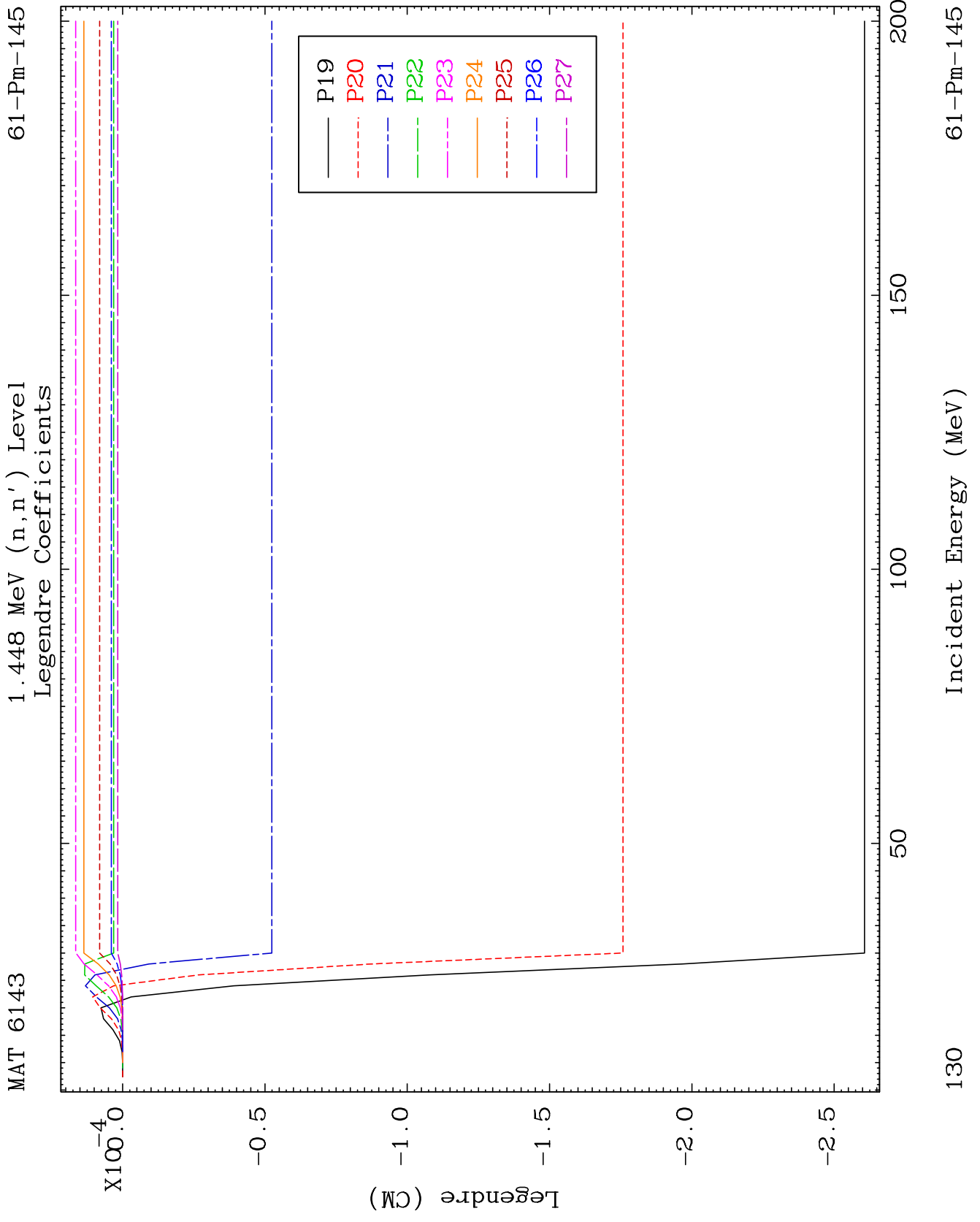
61-Pm-145

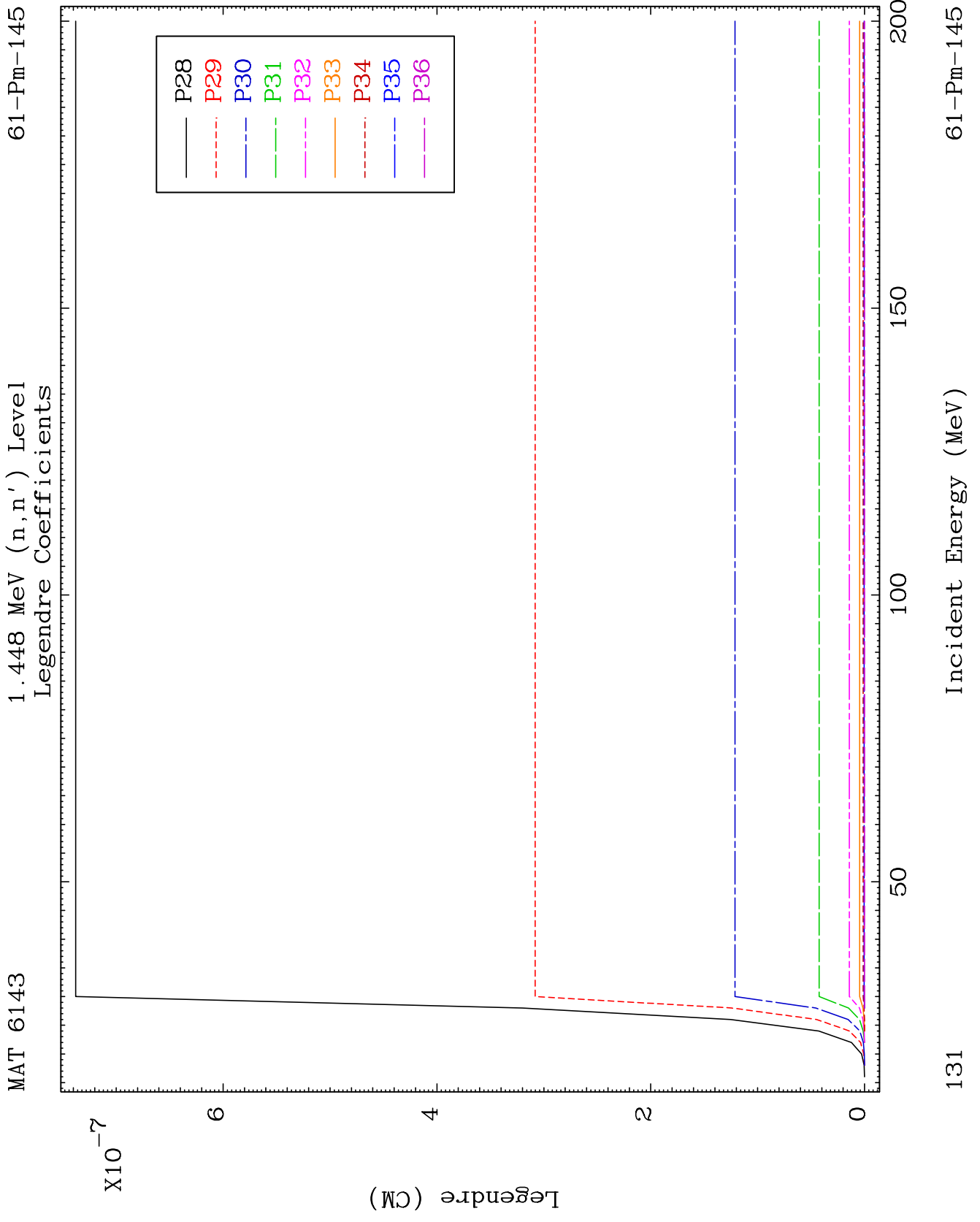












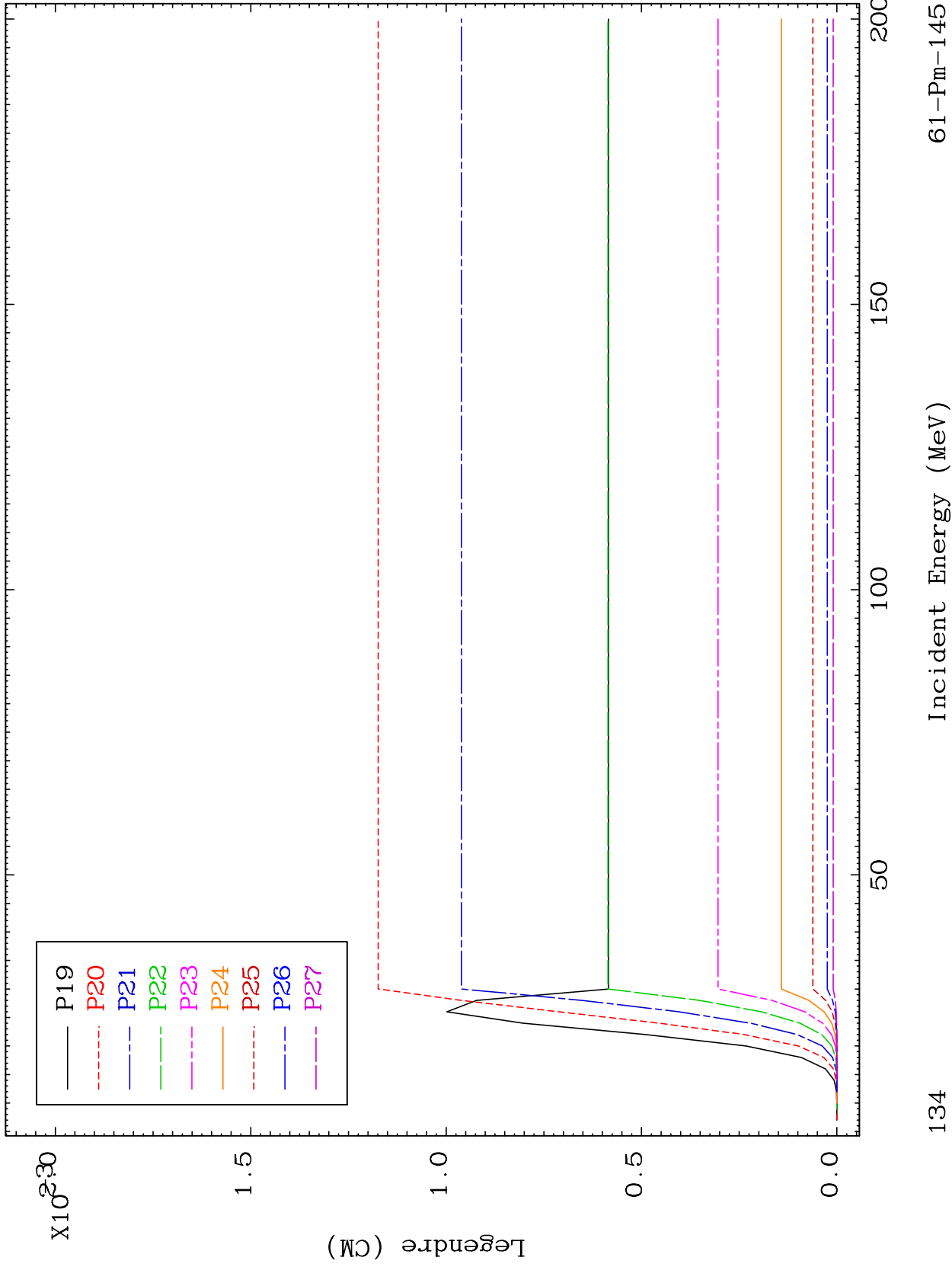




MAT 6143

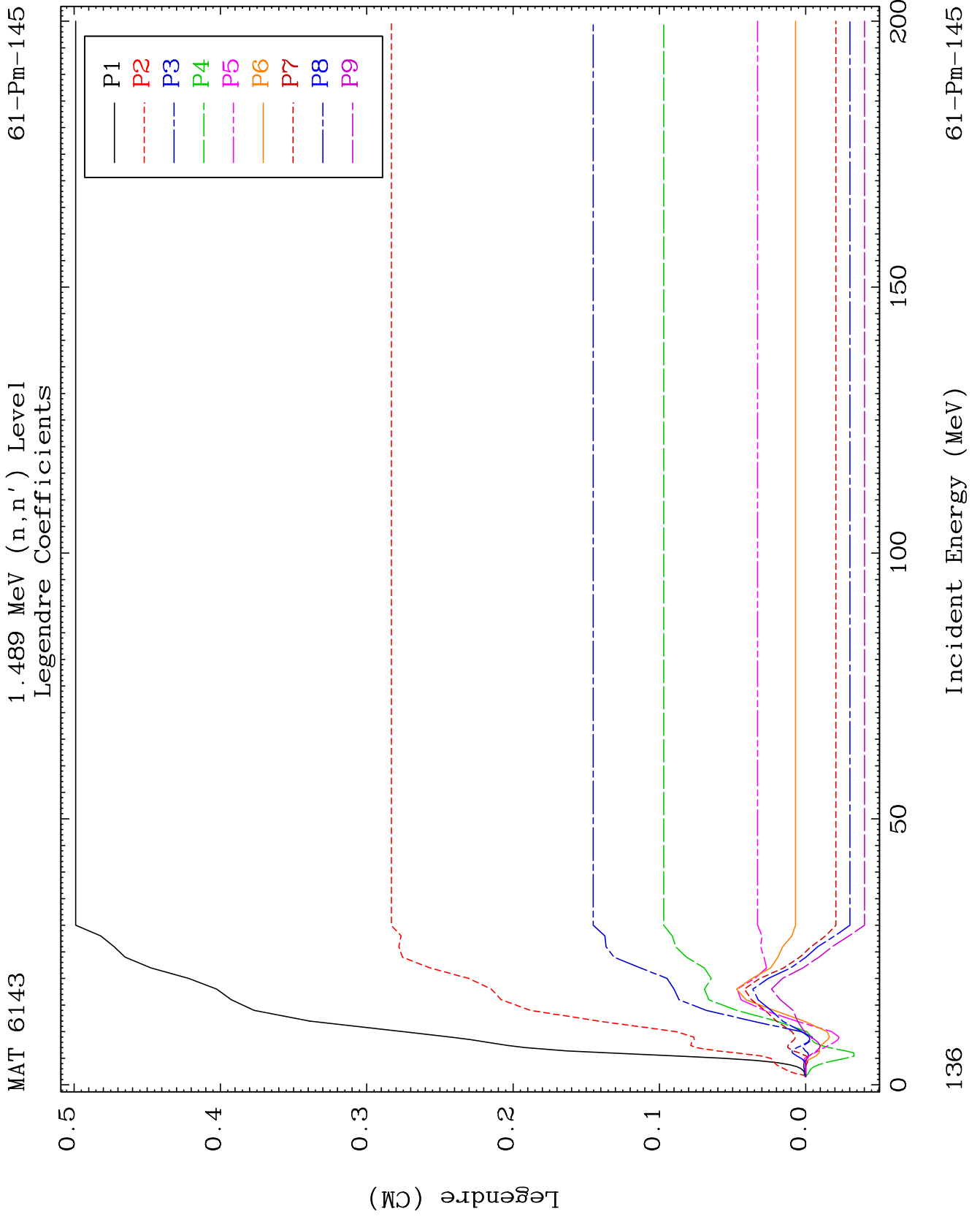
1.456 MeV (n,n') Level  
Legendre Coefficients

61-Pm-145







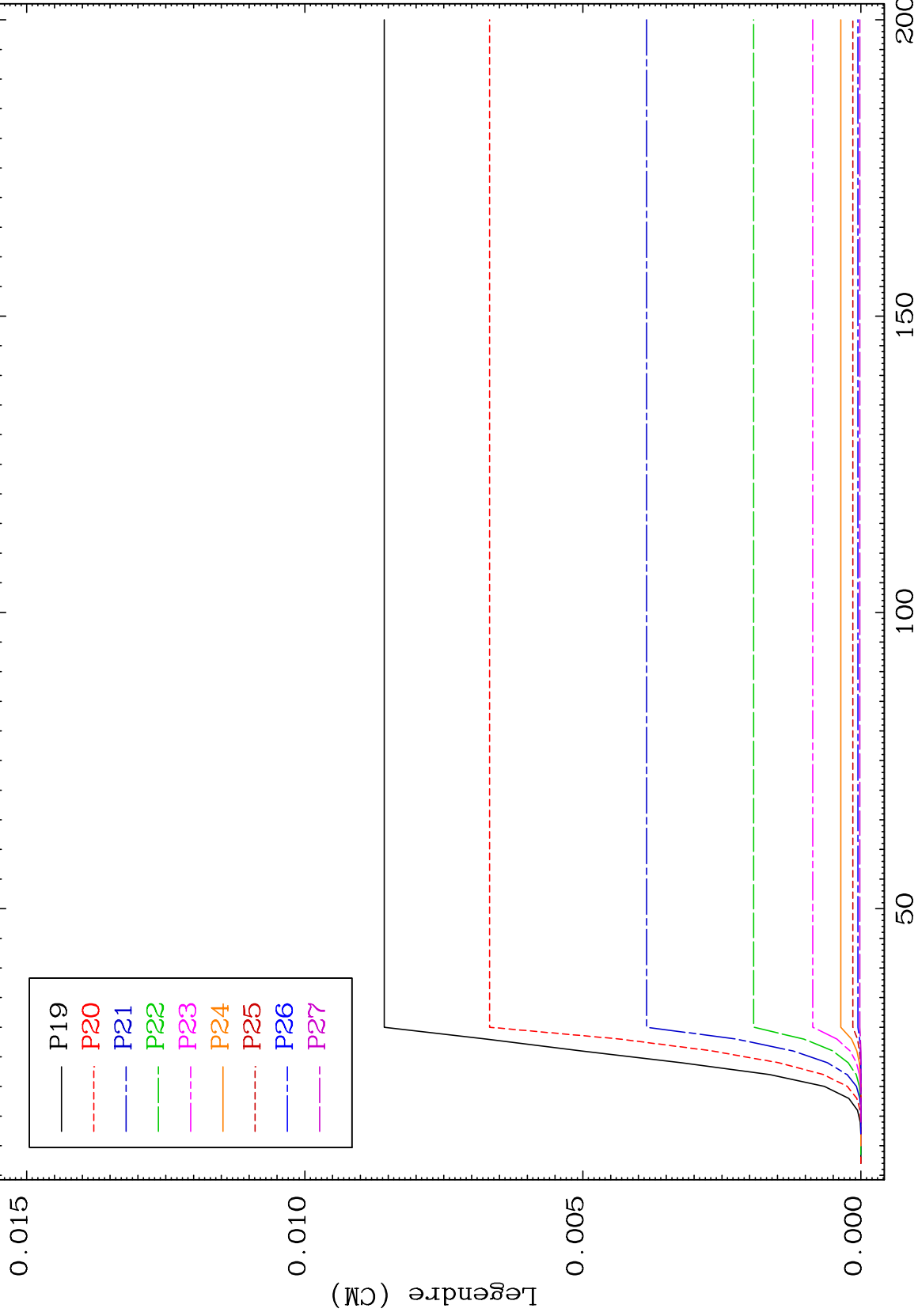




MAT 6143

1.489 MeV (n,n') Level  
Legendre Coefficients

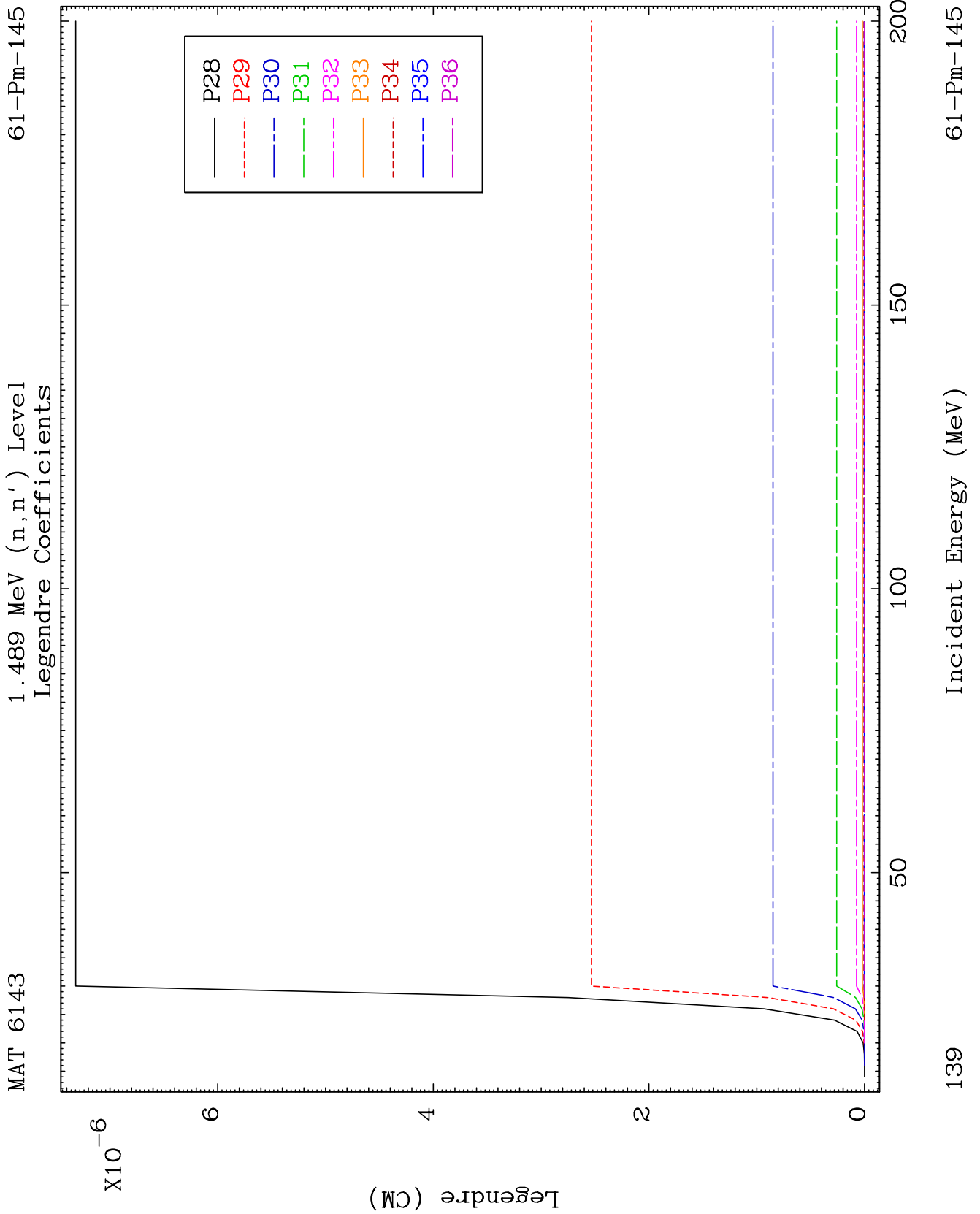
61-Pm-145



138

Incident Energy (MeV)

61-Pm-145

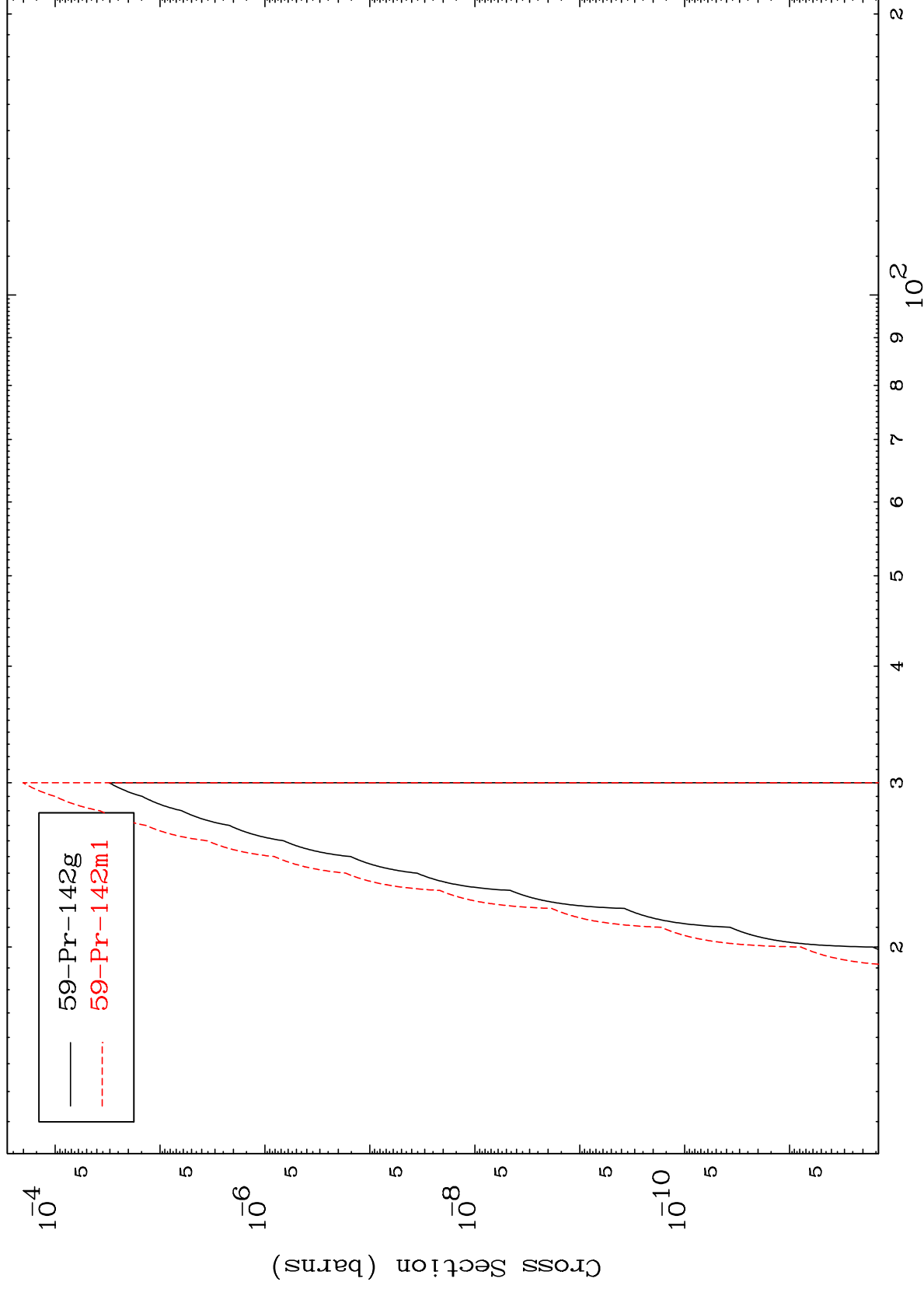


MAT 6143

(n,n') He-3

61-Pm-145

Radionuclide Production Cross Section



140

Incident Energy (MeV)

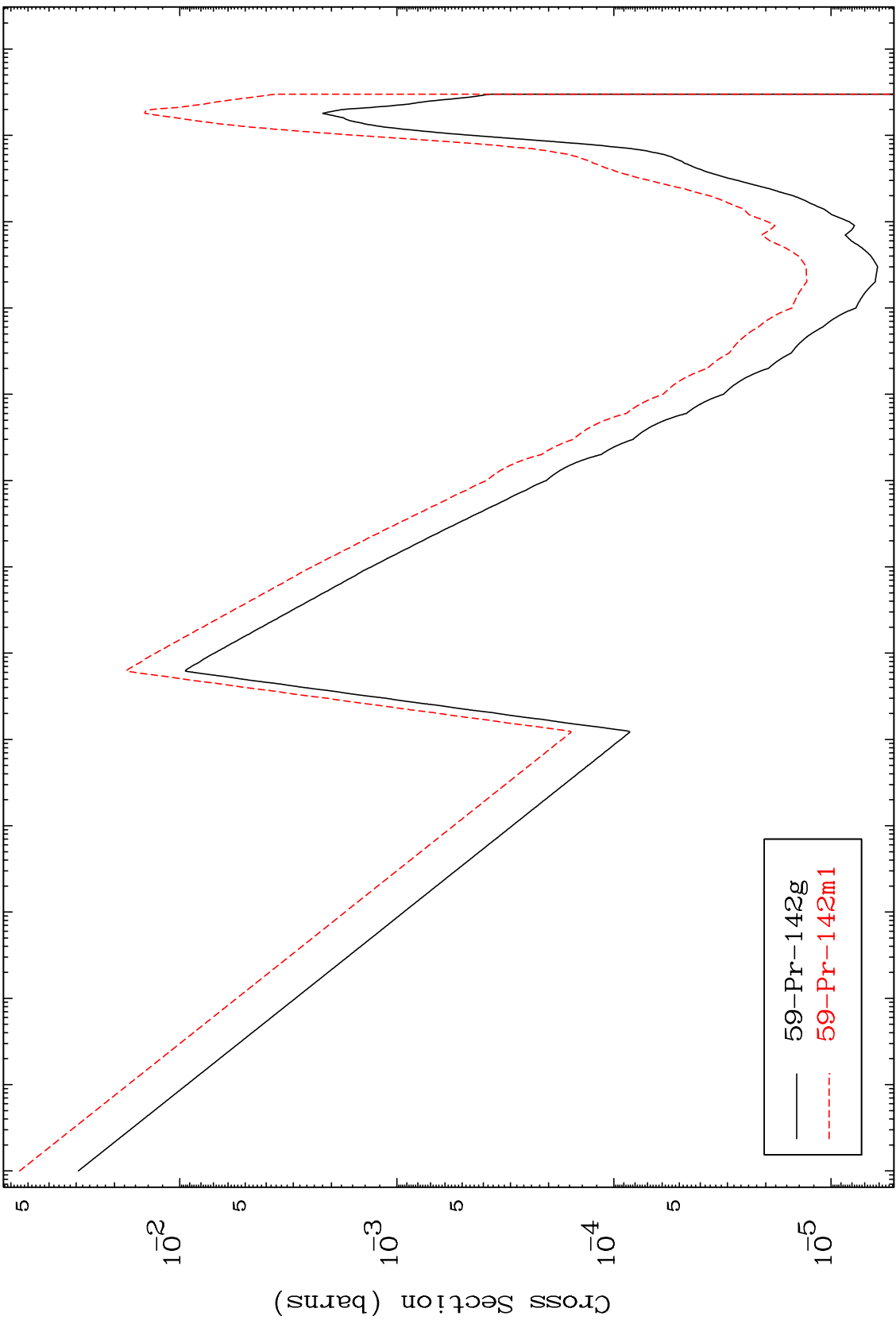
61-Pm-145

MAT 6143

61-Pm-145

Radionuclide Production Cross Section

(n,  $\alpha$ )



61-Pm-145

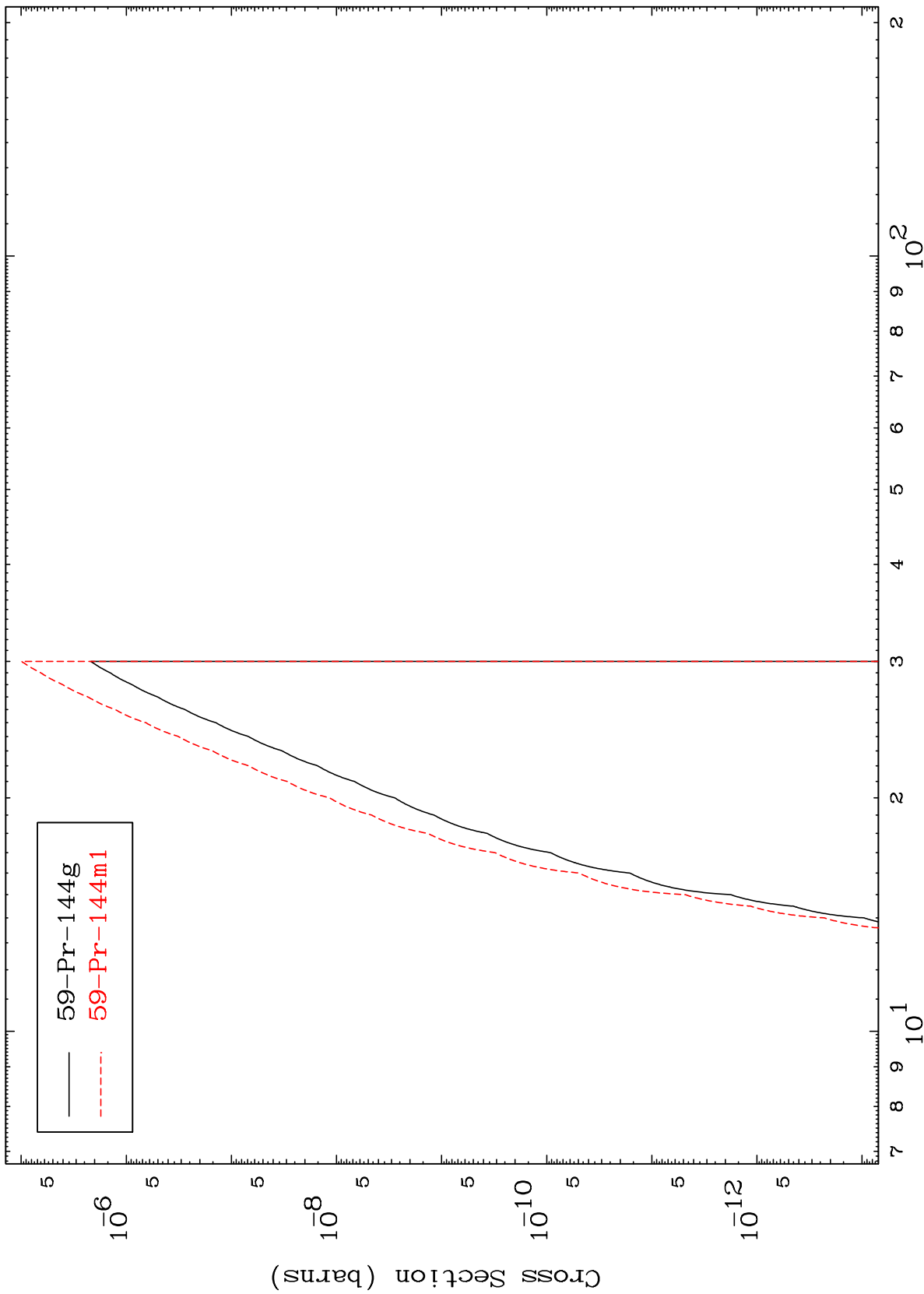
Incident Energy (MeV)

141

MAT 6143

61-Pm-145

(n,2p)  
Radionuclide Production Cross Section



— 59-Pr-144g  
- - - 59-Pr-144m1

142

Incident Energy (MeV)

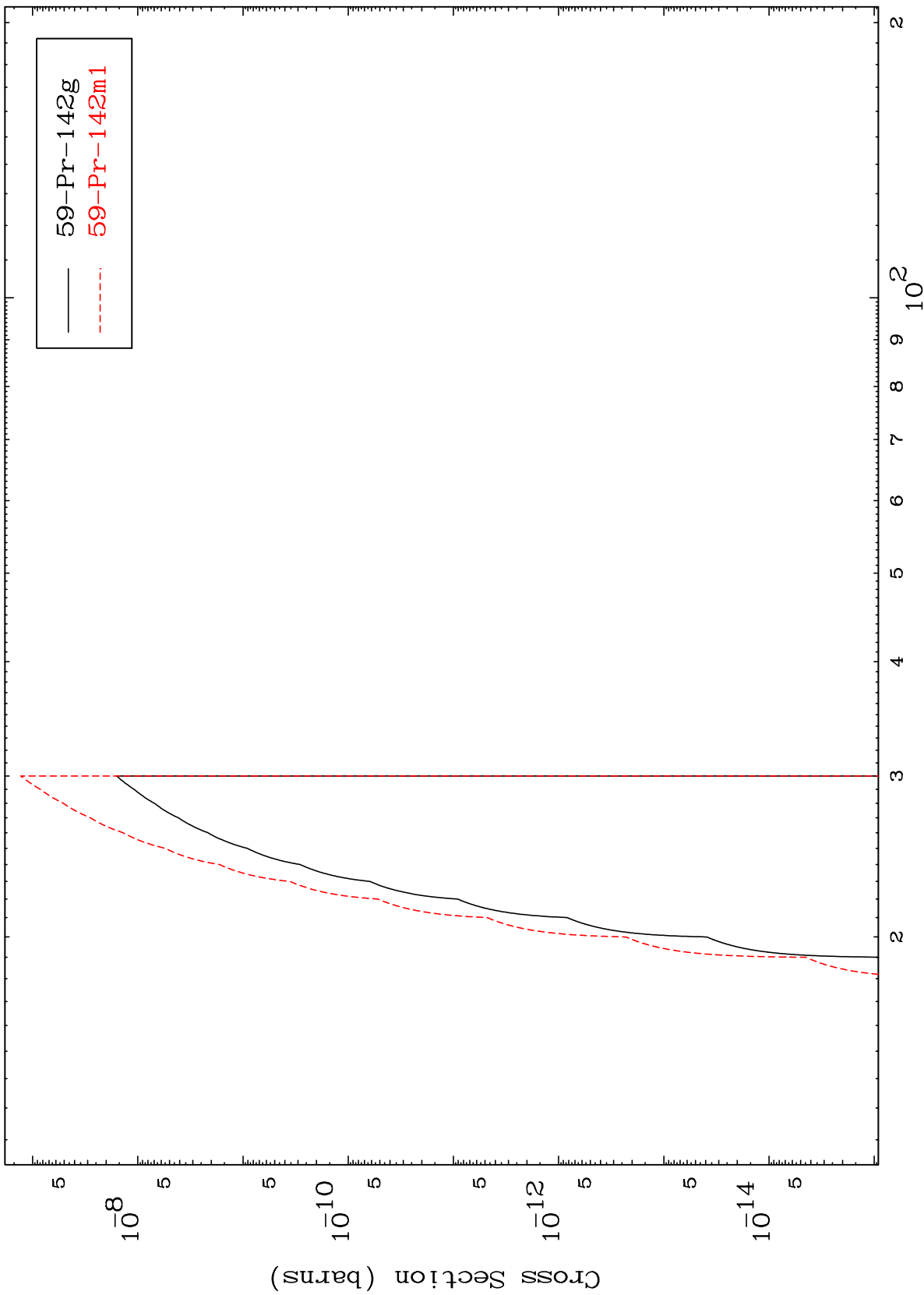
61-Pm-145

MAT 6143

(n,p) t

61-Pm-145

Radionuclide Production Cross Section



59-Pr-142g  
59-Pr-142m1

143

Incident Energy (MeV)

61-Pm-145