

Program EVALPLOT  
(Version 2018-1)

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

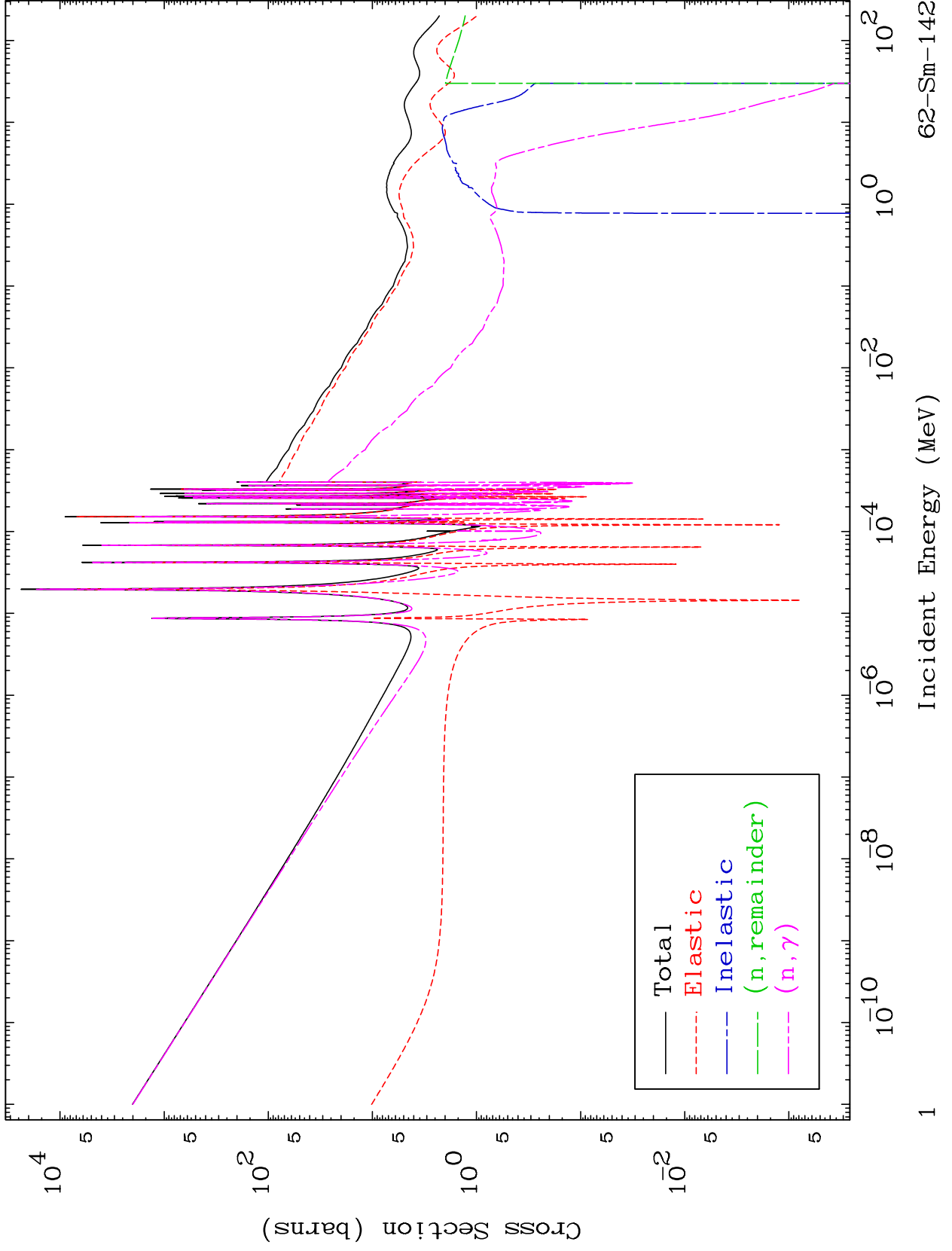
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6219

Major  
293 Kelvin Cross Sections

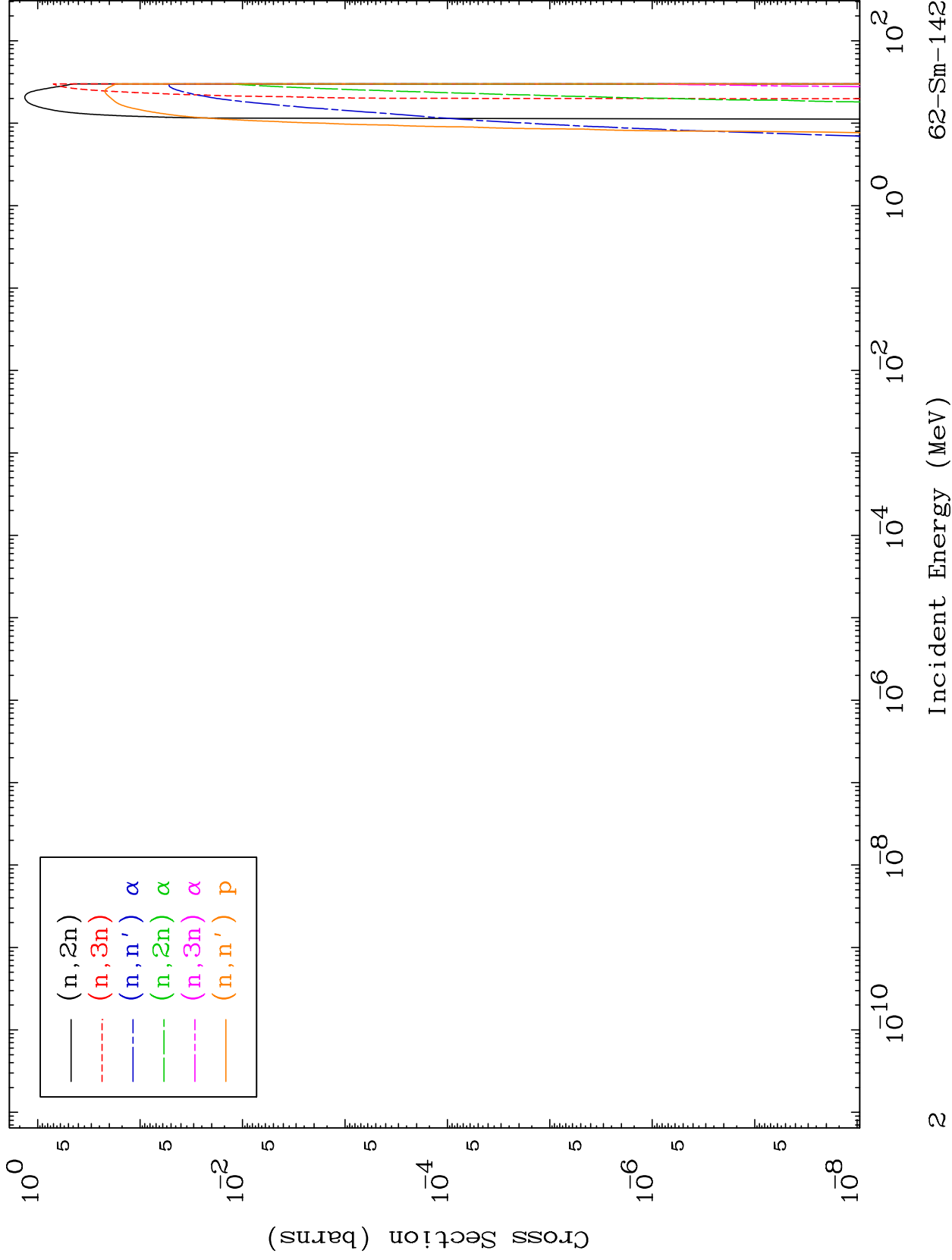
62-Sm-142



MAT 6219

Neutron Production  
293 Kelvin Cross Sections

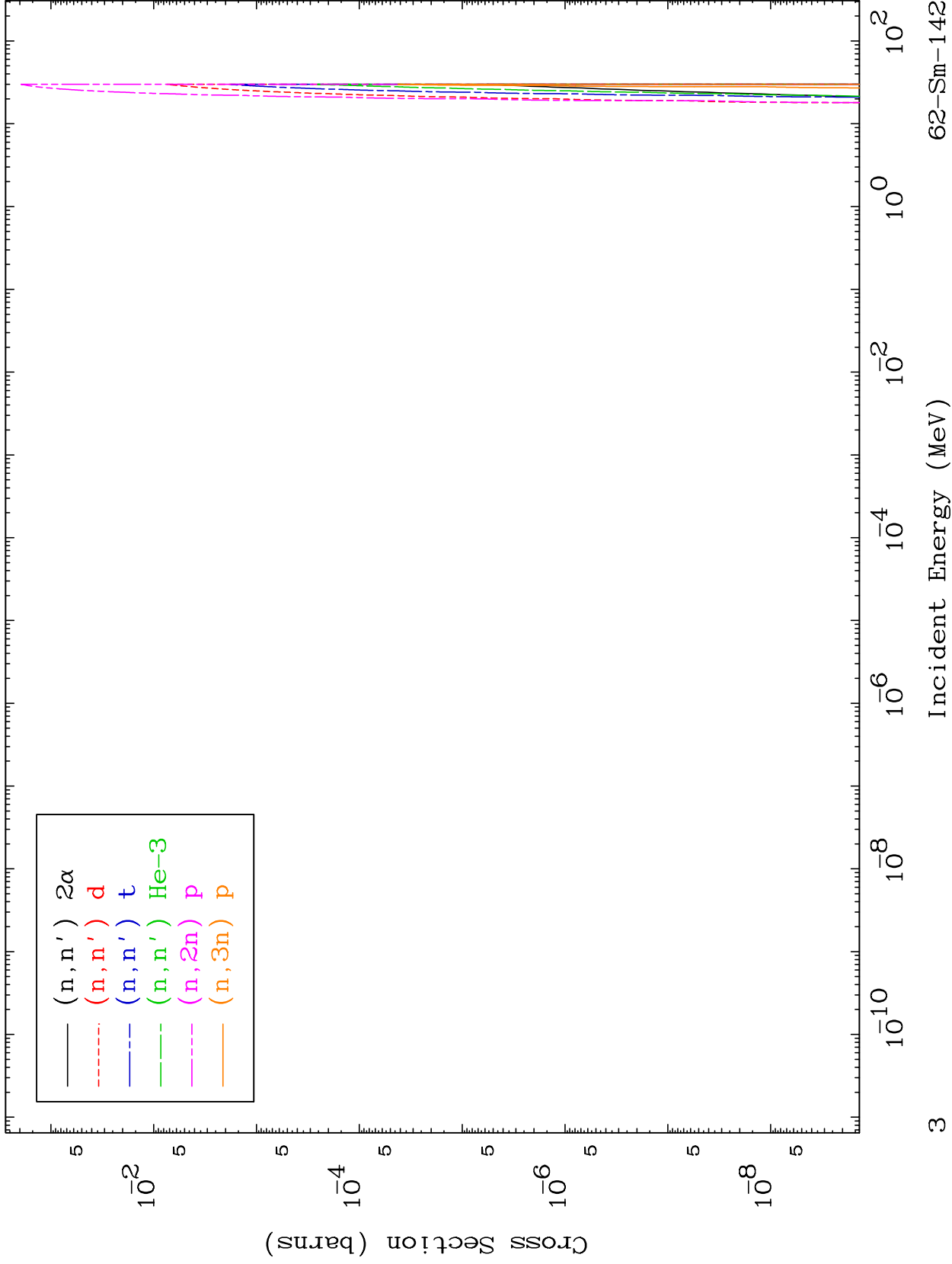
62-Sm-142



MAT 6219

Neutron Production  
293 Kelvin Cross Sections

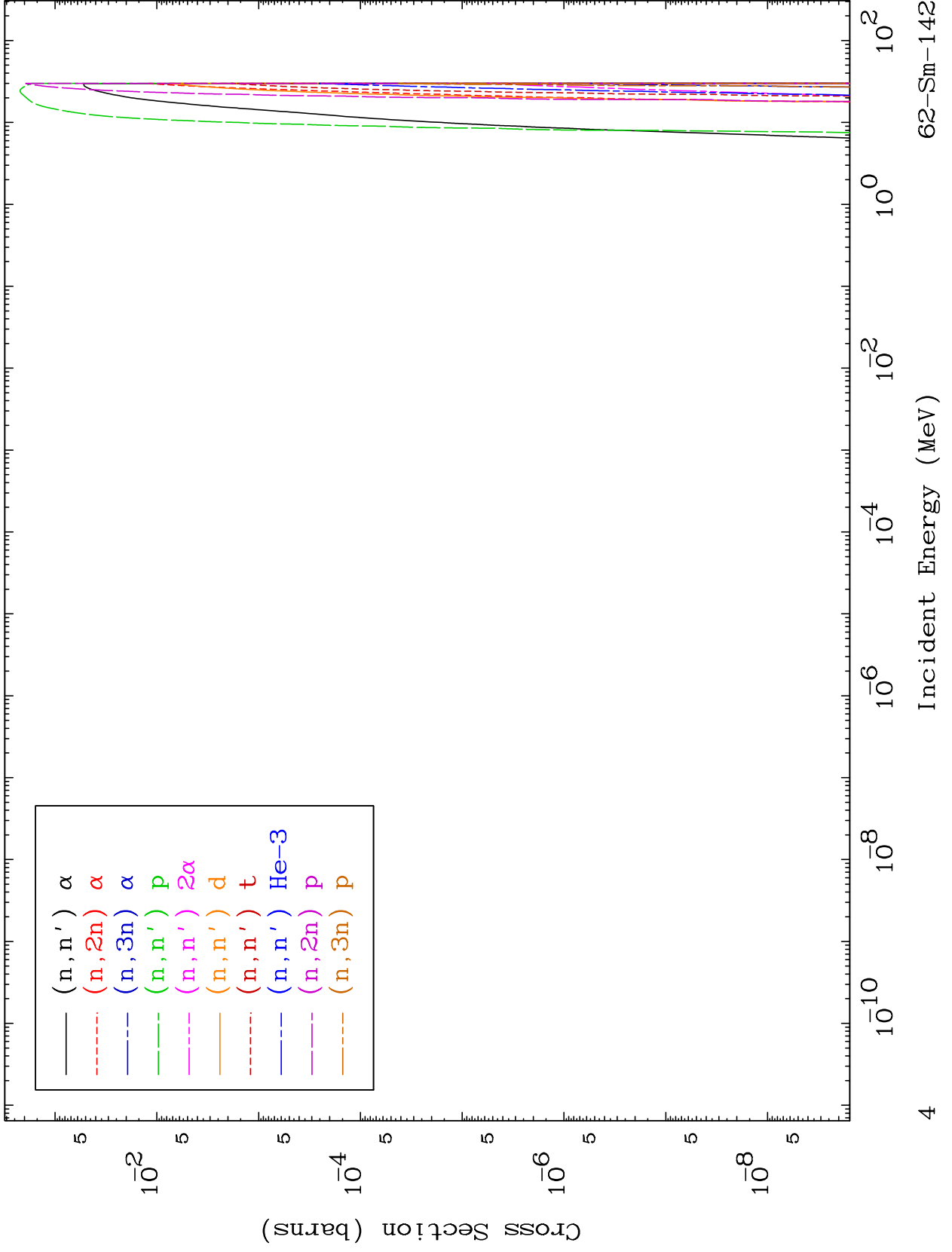
62-Sm-142



MAT 6219

Charged Particle  
293 Kelvin Cross Sections

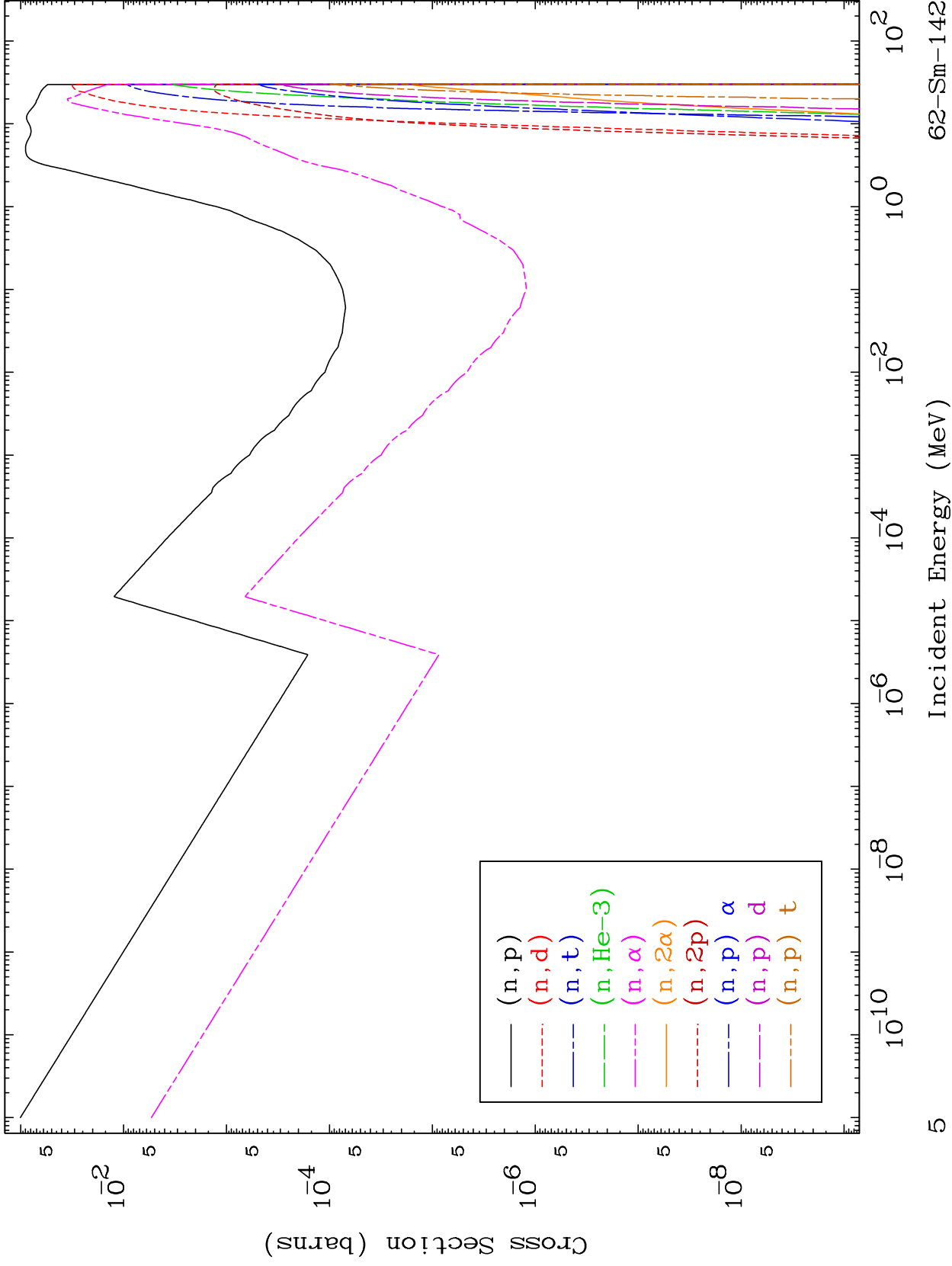
62-Sm-142

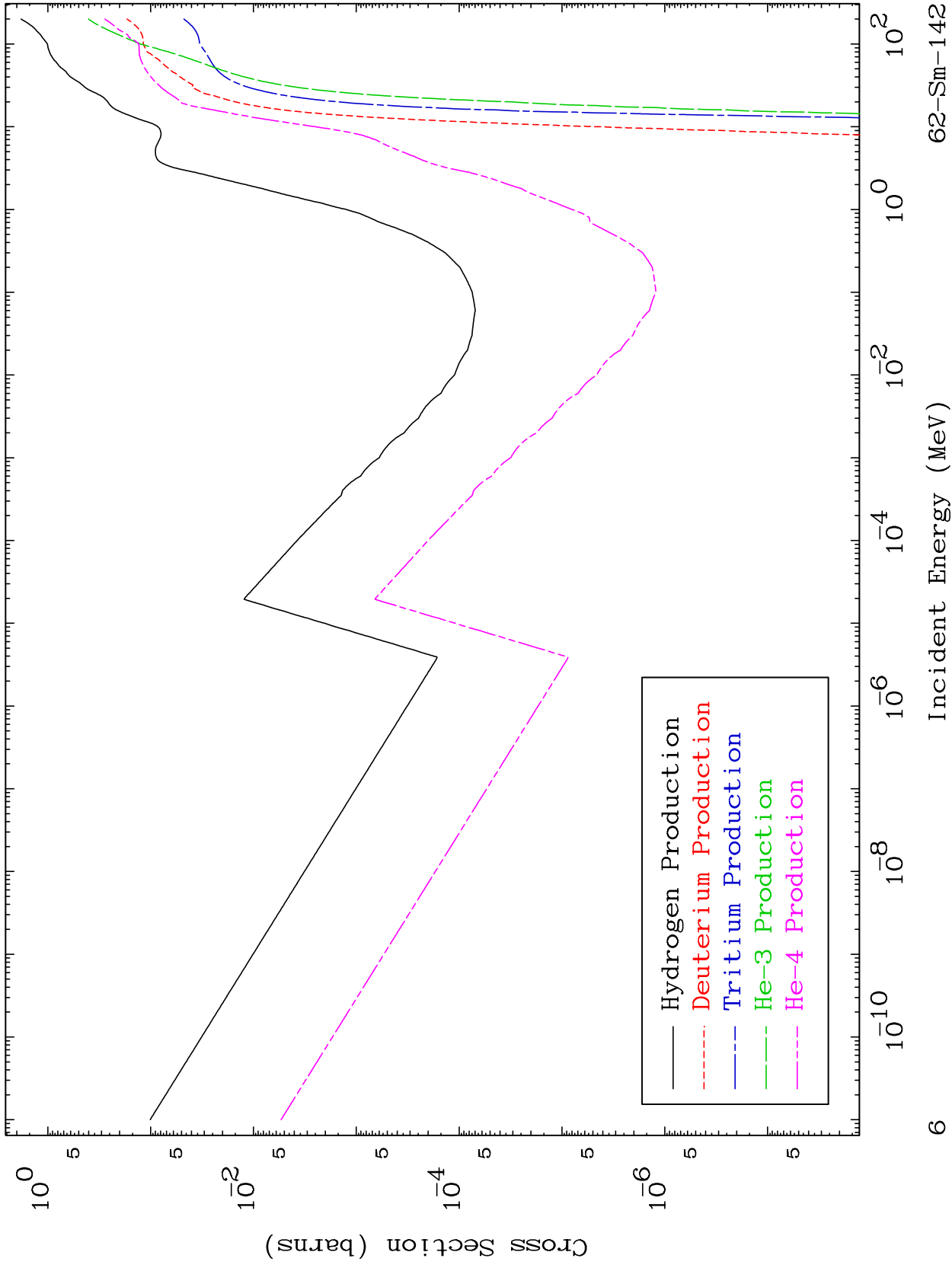


MAT 6219

Charged Particle  
293 Kelvin Cross Sections

62-Sm-142



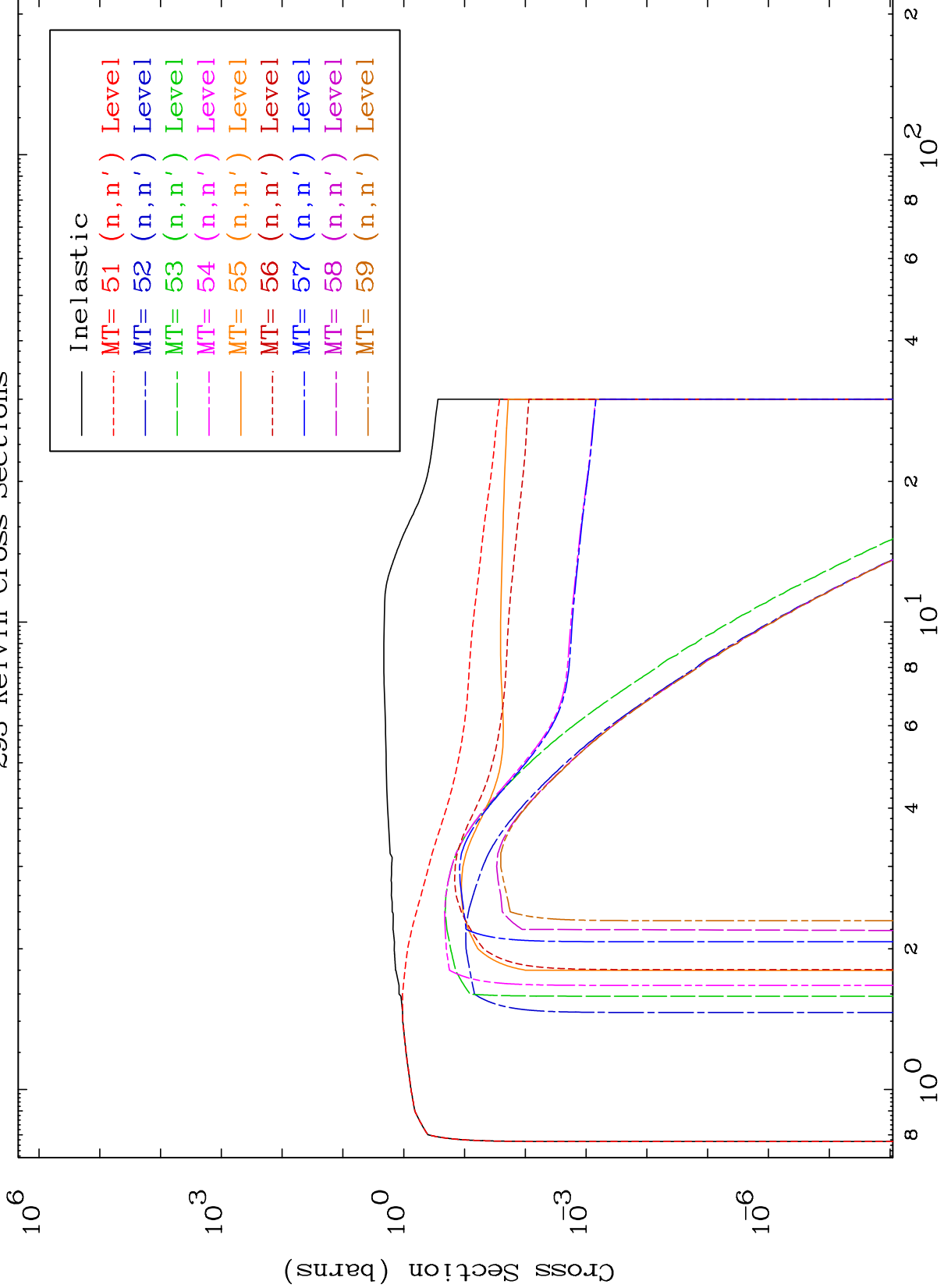


MAT 6219

(n,n') Level

62-Sm-142

293 Kelvin Cross Sections



7

Incident Energy (MeV)

62-Sm-142

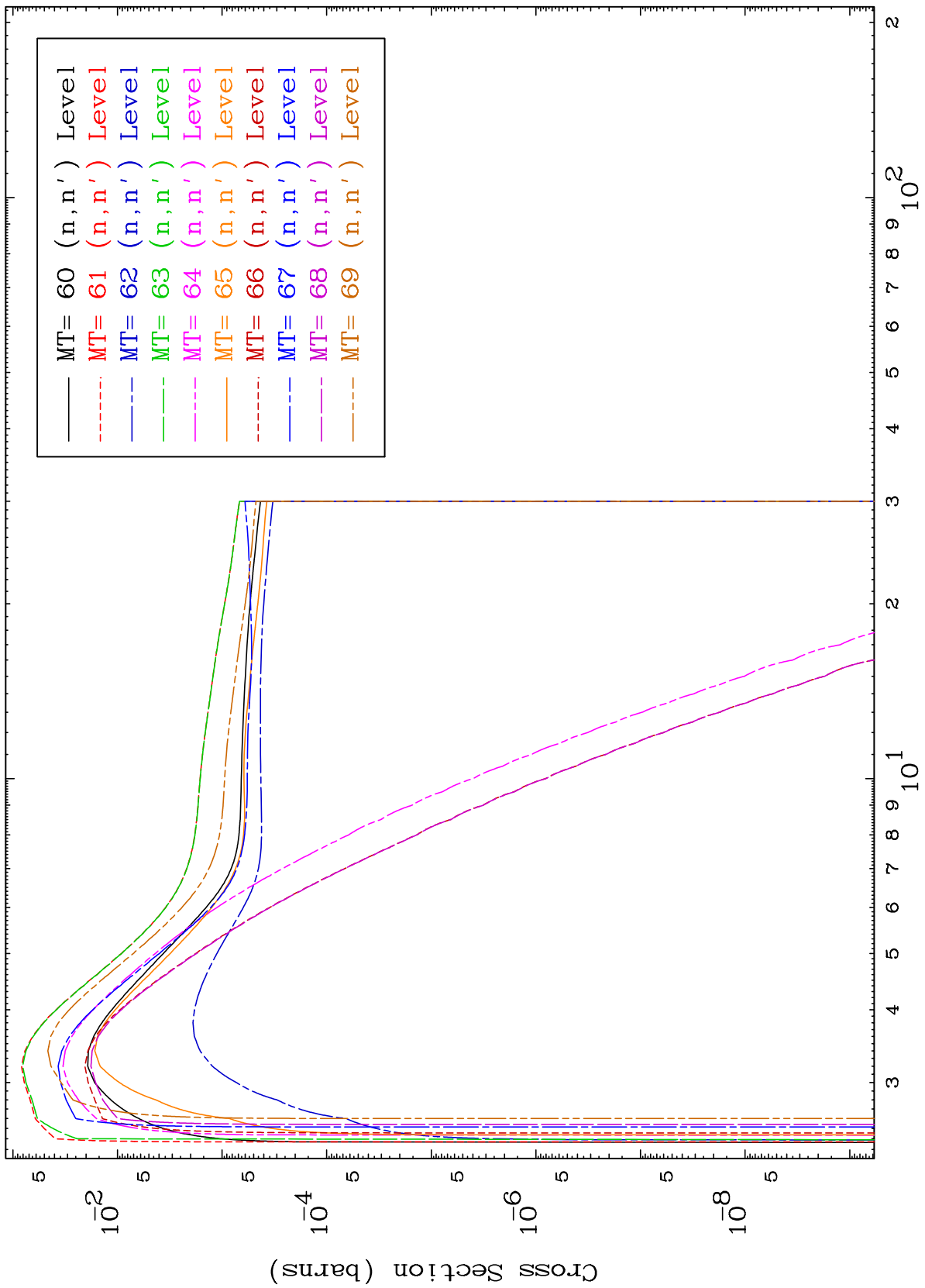


MAT 6219

(n,n') Level

62-Sm-142

293 Kelvin Cross Sections

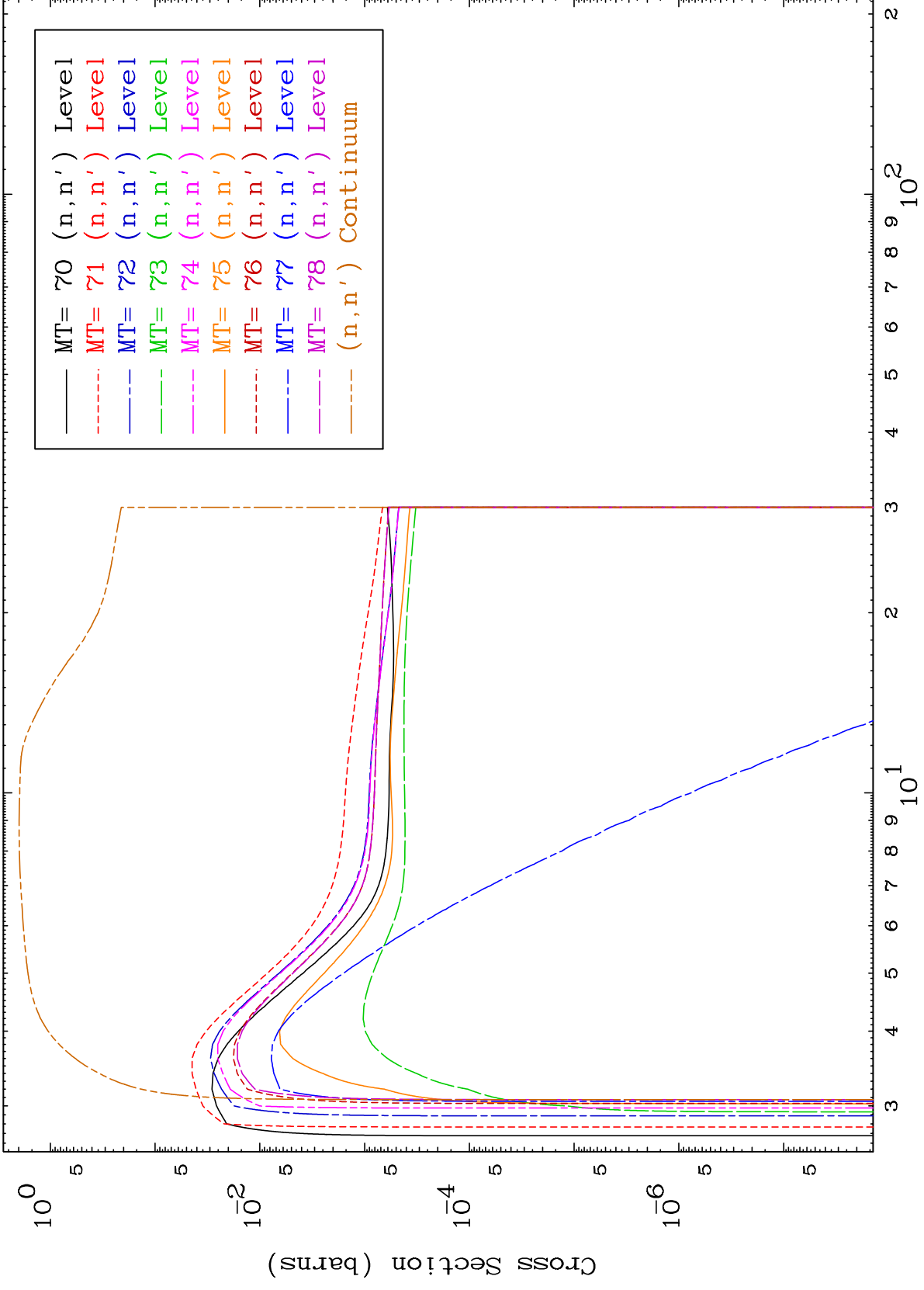


8

Incident Energy (MeV)

62-Sm-142

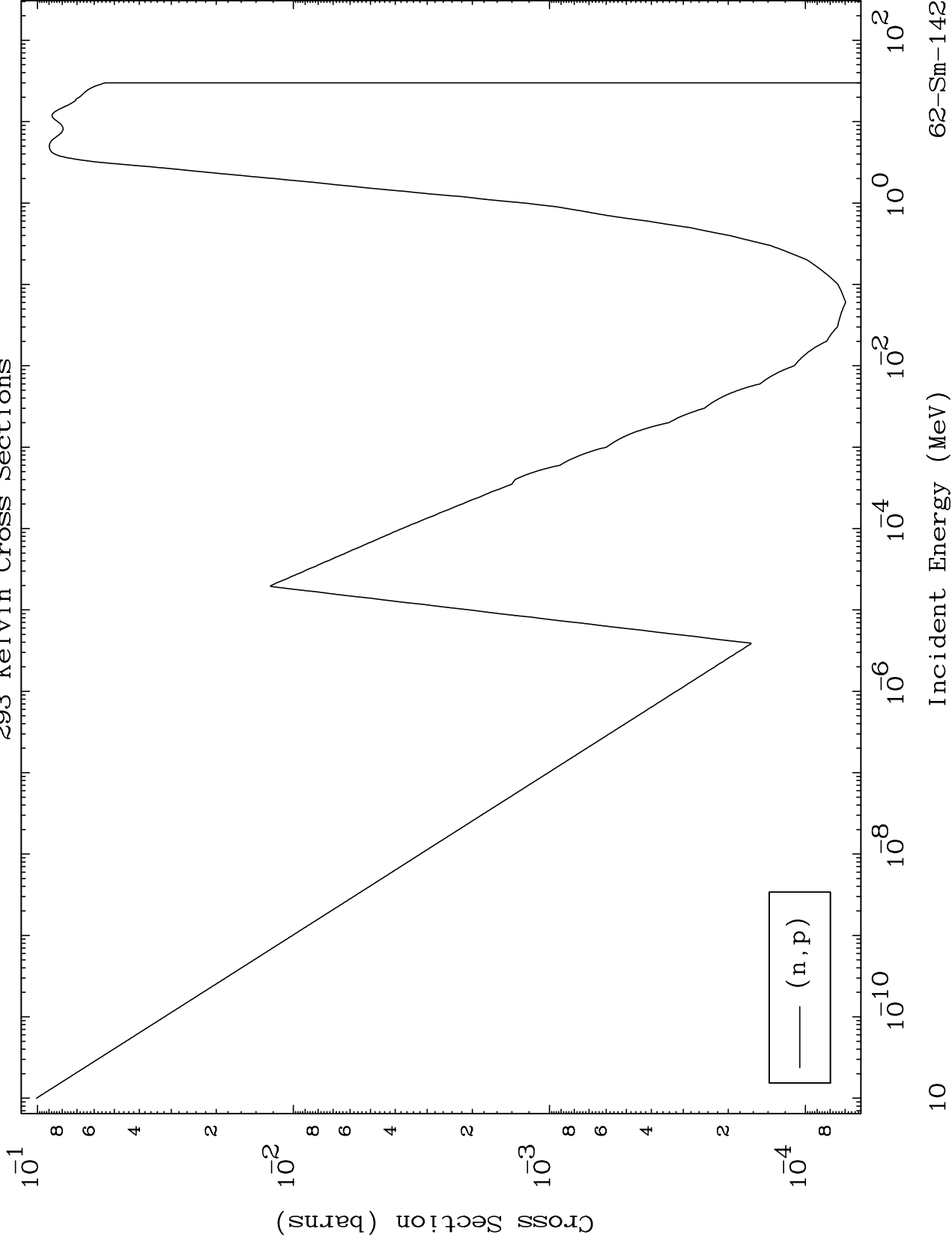
293 Kelvin Cross Sections



MAT 6219

(n,p) Levels  
293 Kelvin Cross Sections

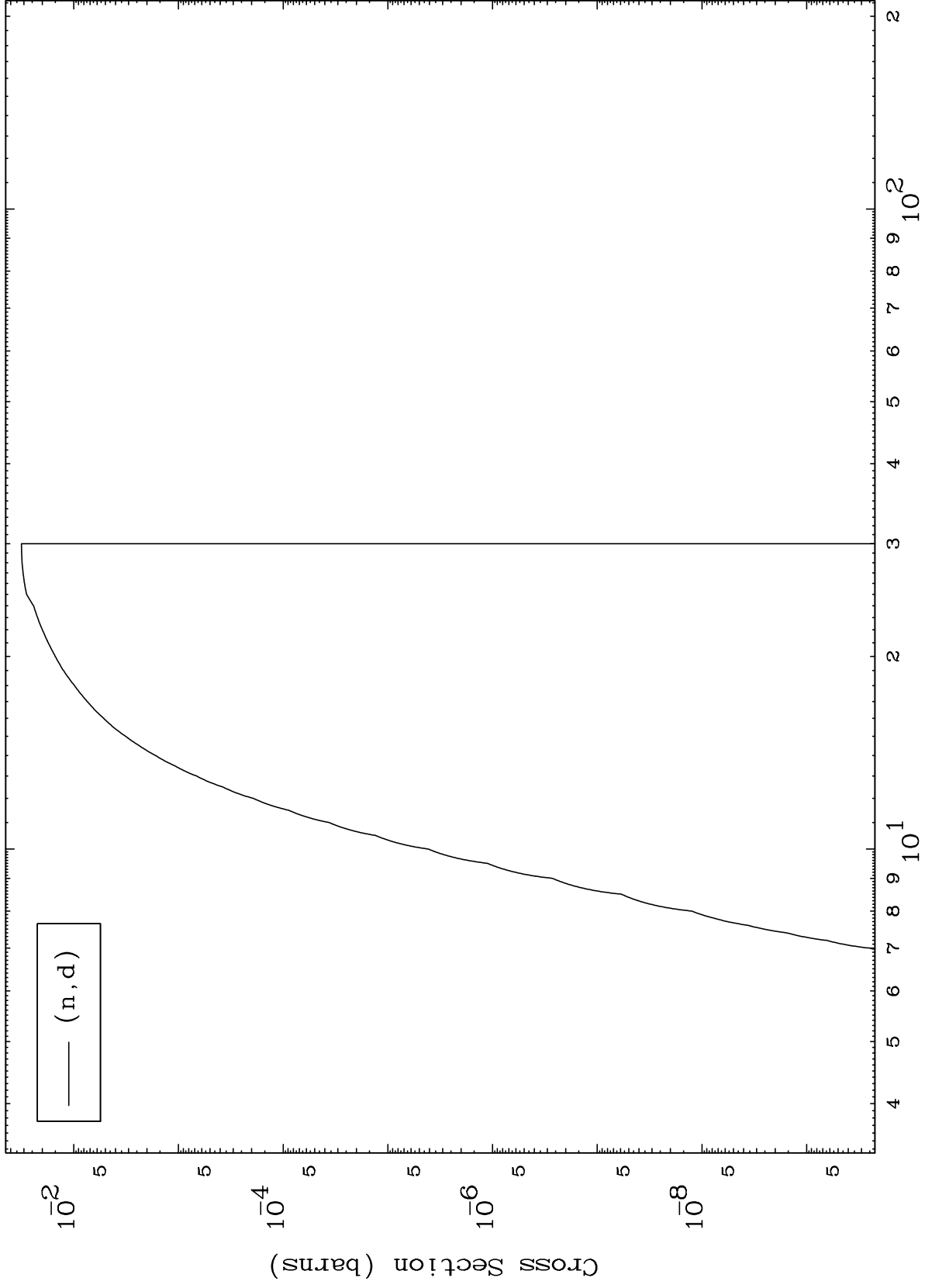
62-Sm-142



MAT 6219

(n,d) Levels  
293 Kelvin Cross Sections

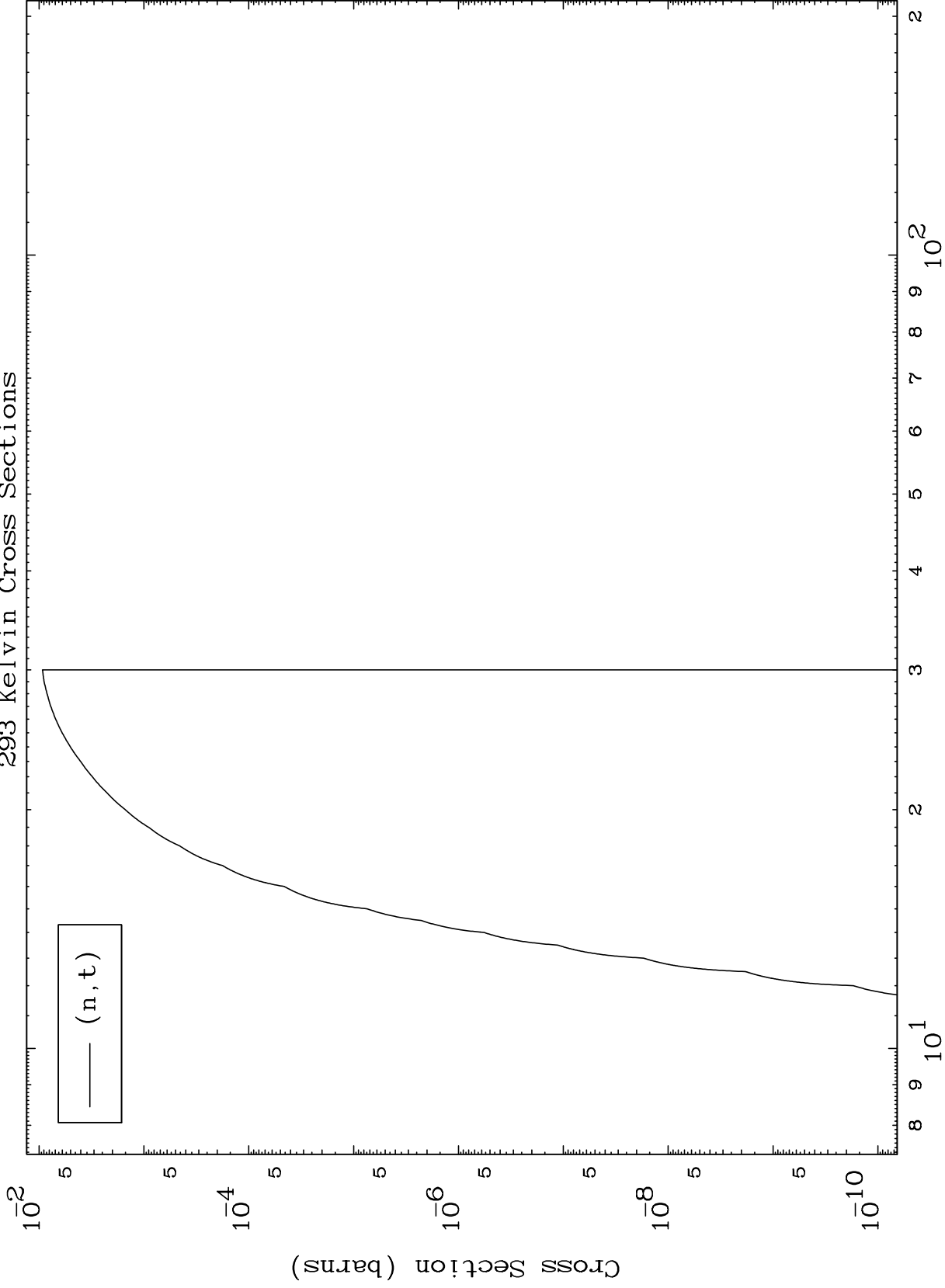
62-Sm-142



MAT 6219

(n,t) Levels  
293 Kelvin Cross Sections

62-Sm-142



12

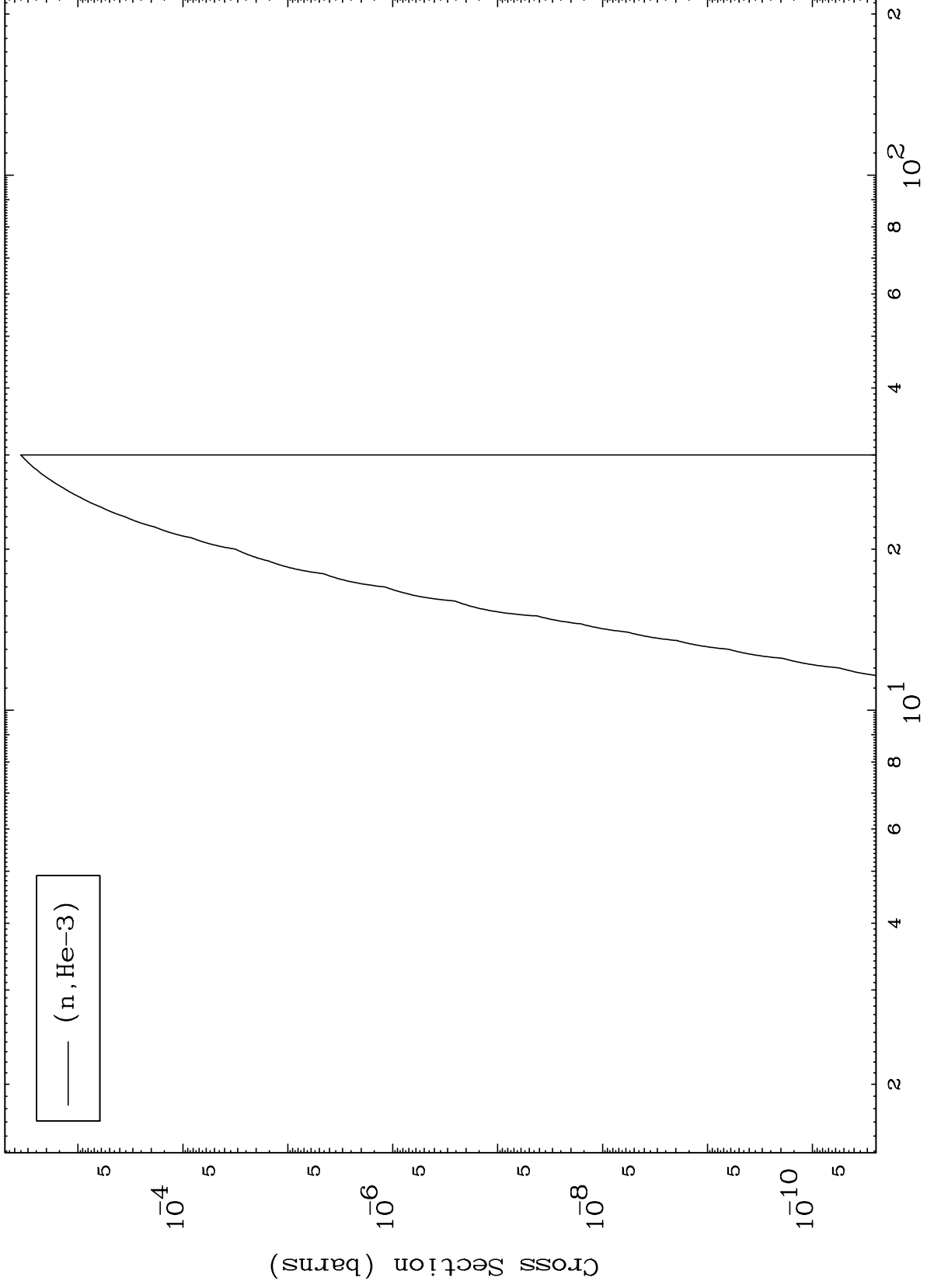
Incident Energy (MeV)

62-Sm-142

MAT 6219

(n,He3) Levels  
293 Kelvin Cross Sections

62-Sm-142



13

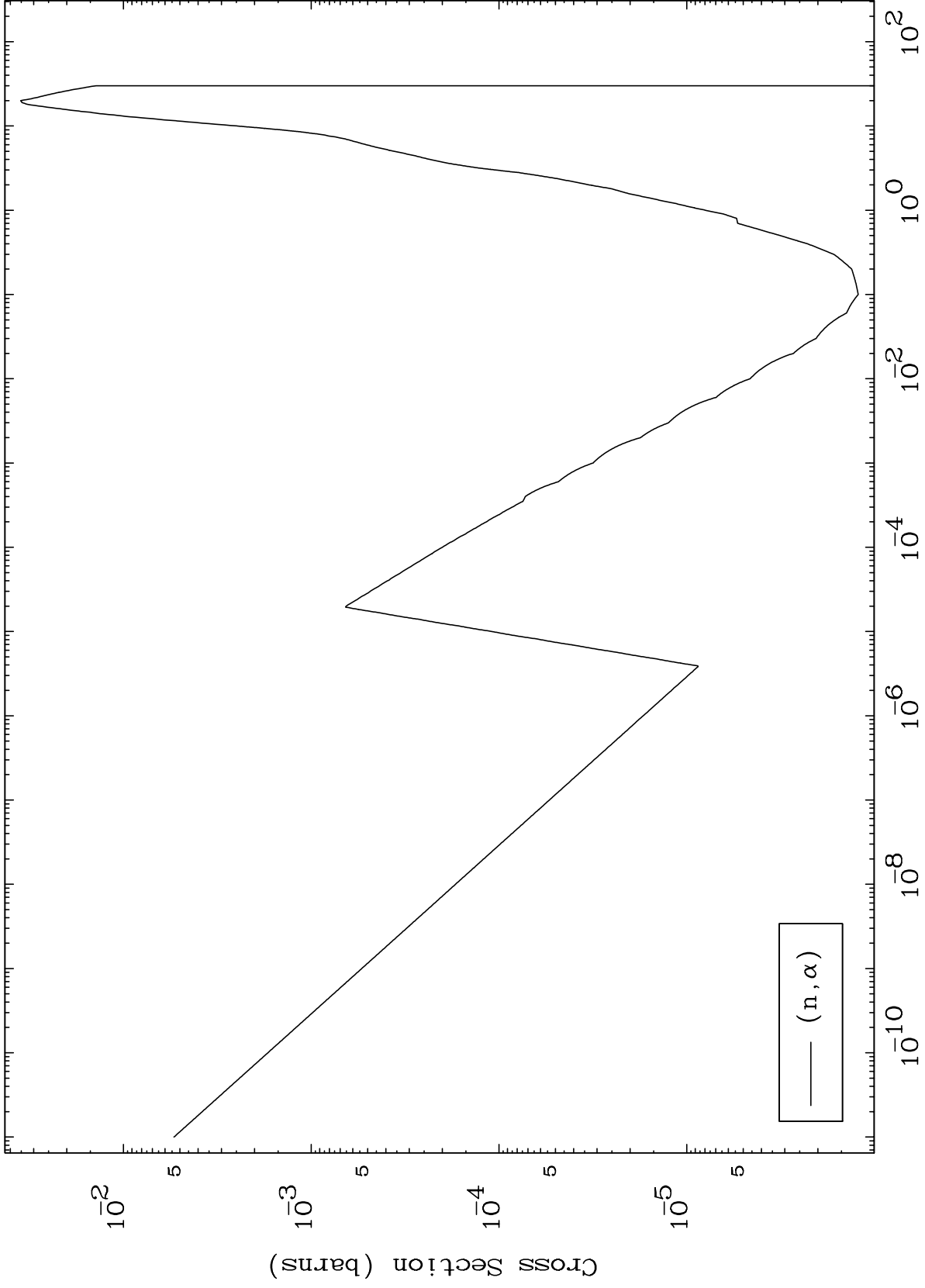
Incident Energy (MeV)

62-Sm-142

MAT 6219

(n,α) Levels  
293 Kelvin Cross Sections

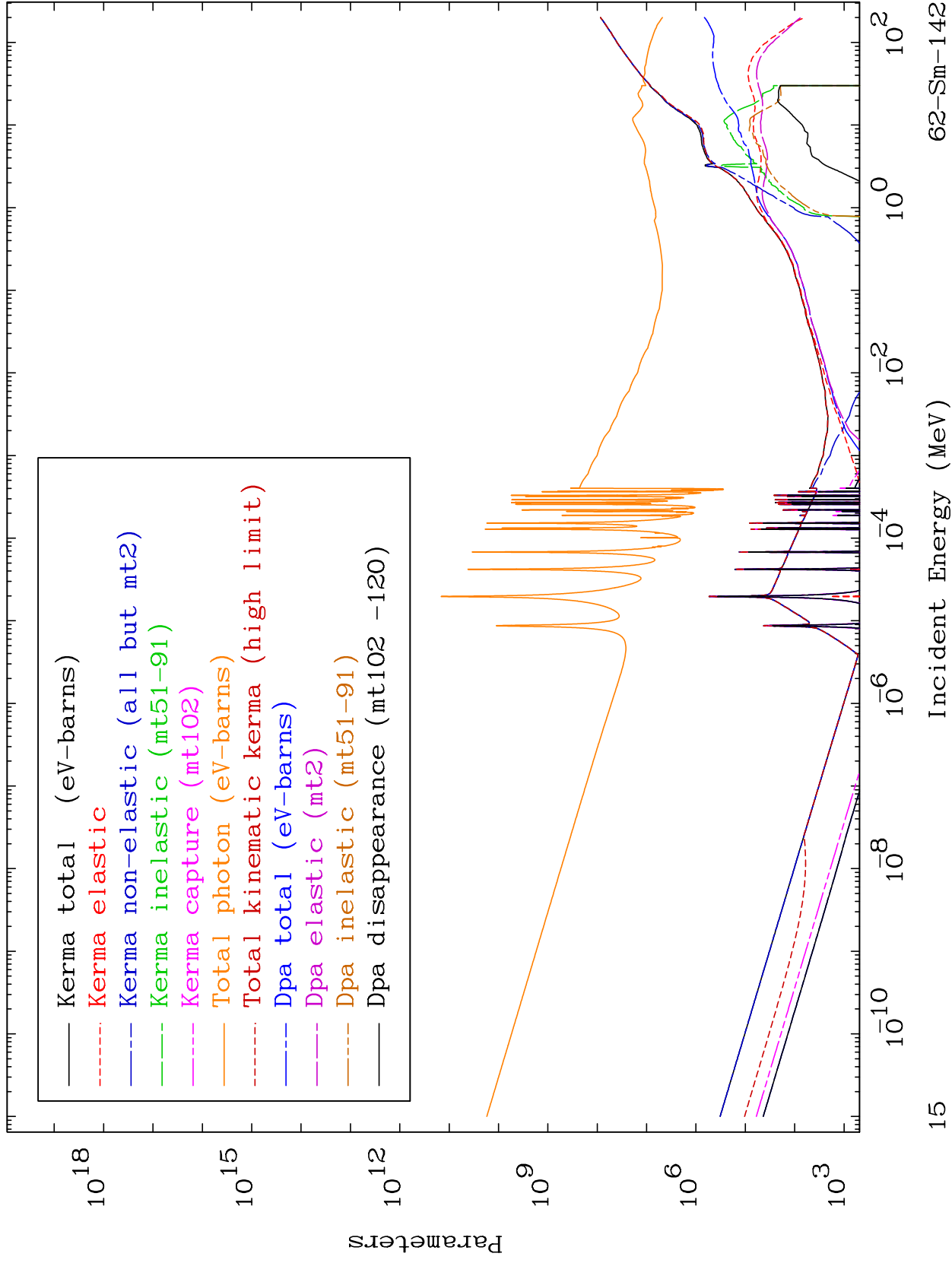
62-Sm-142



14

Incident Energy (MeV)

62-Sm-142

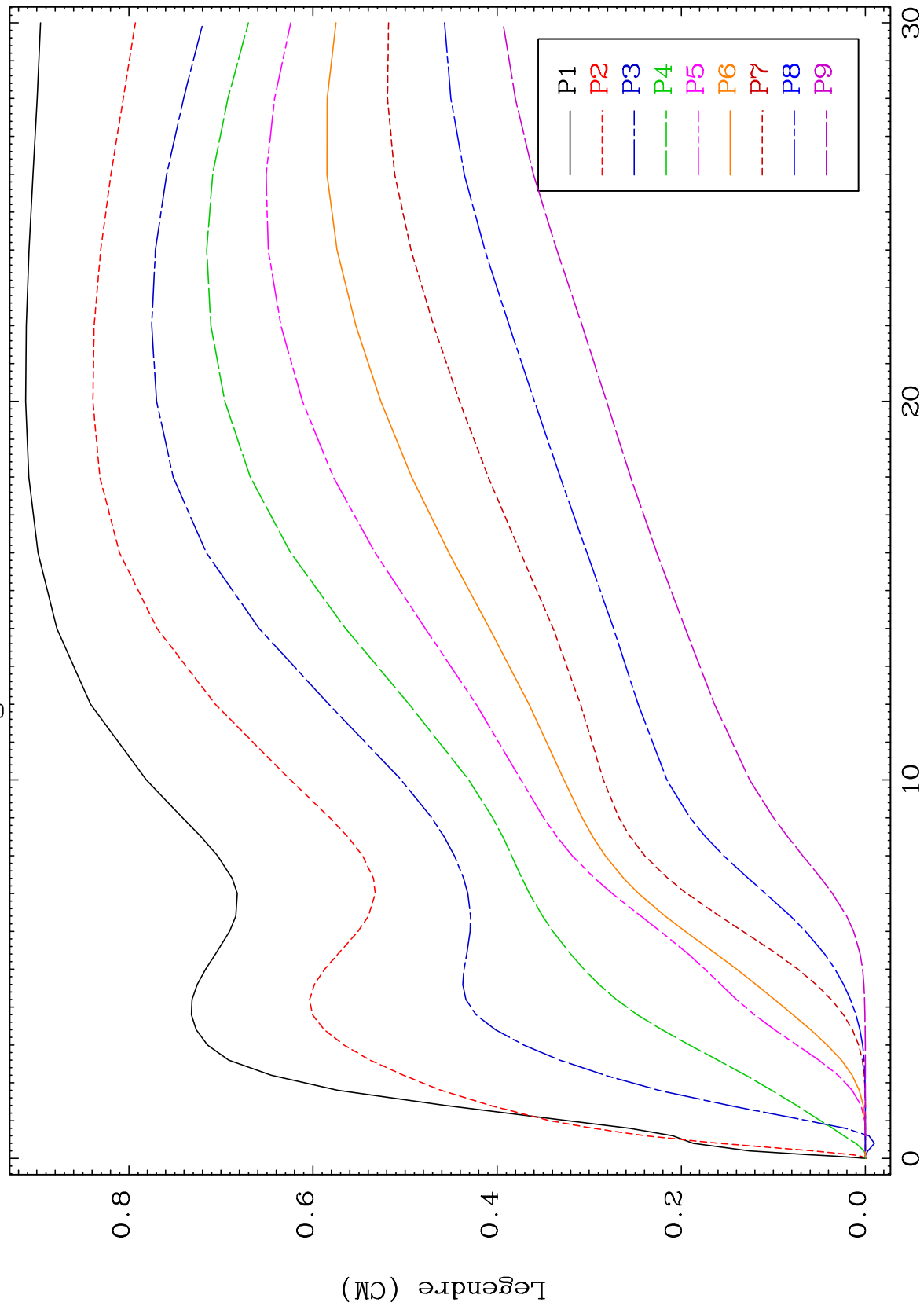




MAT 6219

Elastic Legendre Coefficients

62-Sm-142



16

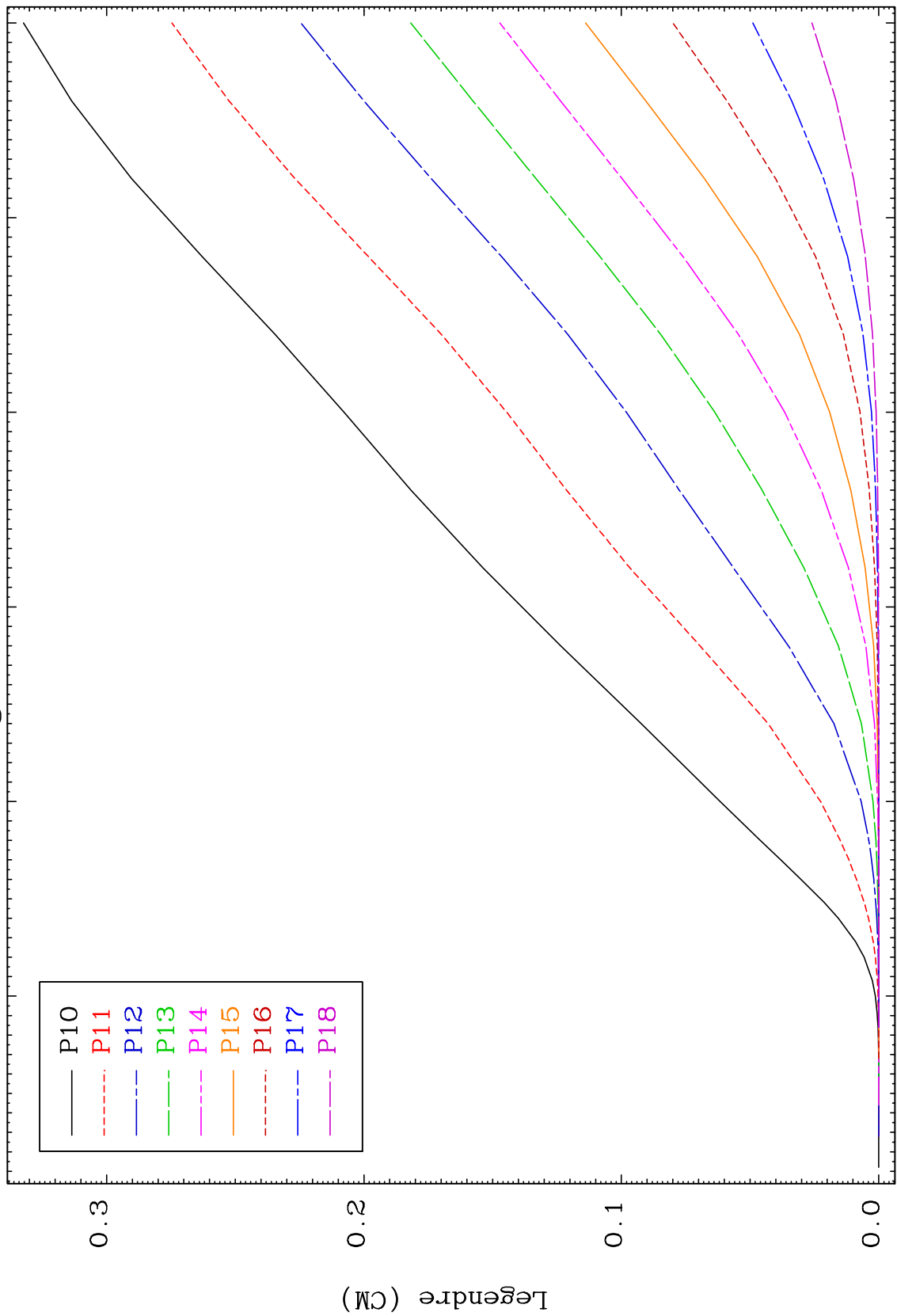
Incident Energy (MeV)

62-Sm-142

MAT 6219

Elastic Legendre Coefficients

62-Sm-142



17

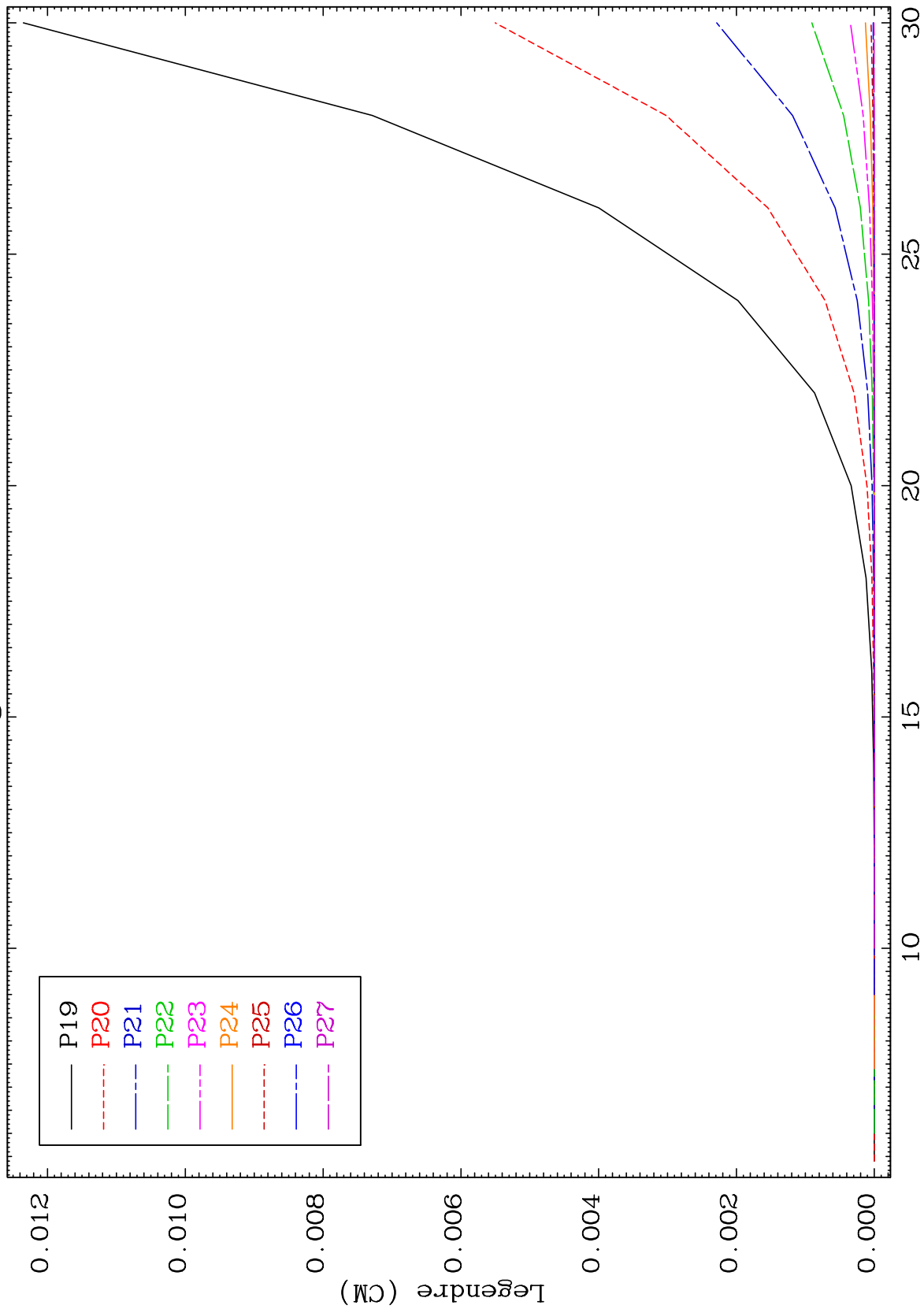
Incident Energy (MeV)

62-Sm-142

MAT 6219

Elastic Legendre Coefficients

62-Sm-142



18

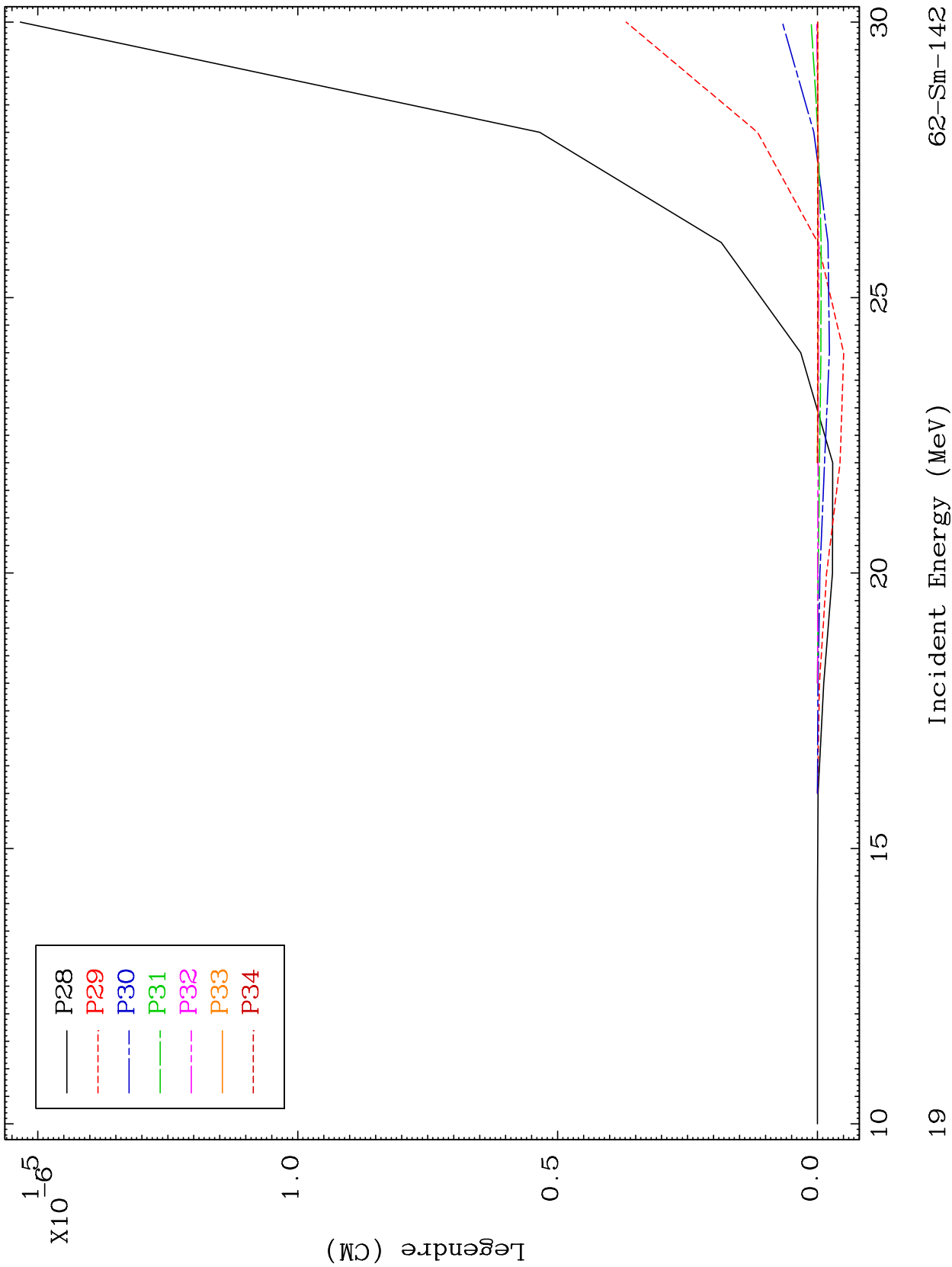
Incident Energy (MeV)

62-Sm-142

MAT 6219

Elastic Legendre Coefficients

62-Sm-142



19

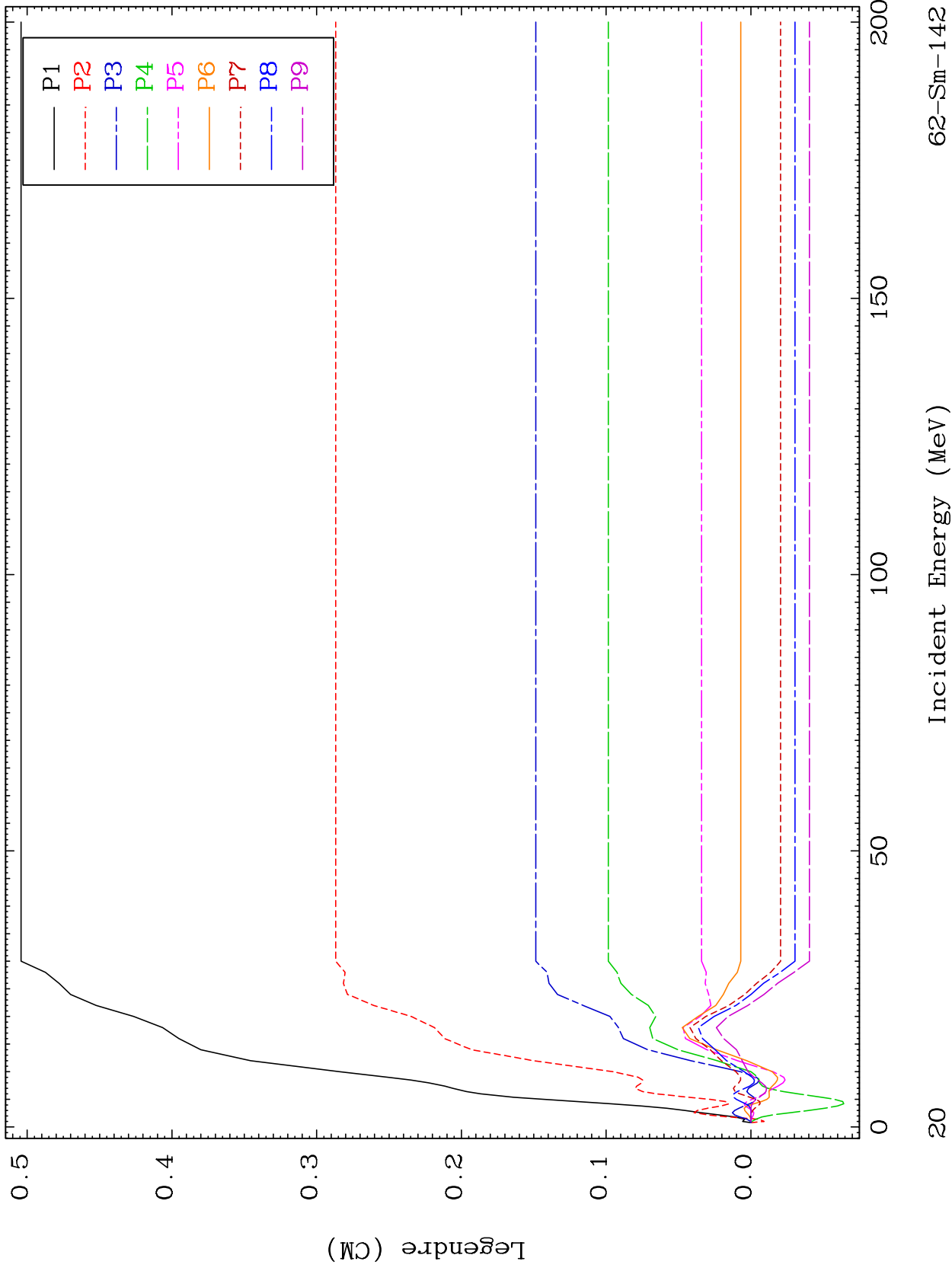
Incident Energy (MeV)

62-Sm-142

MAT 6219

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

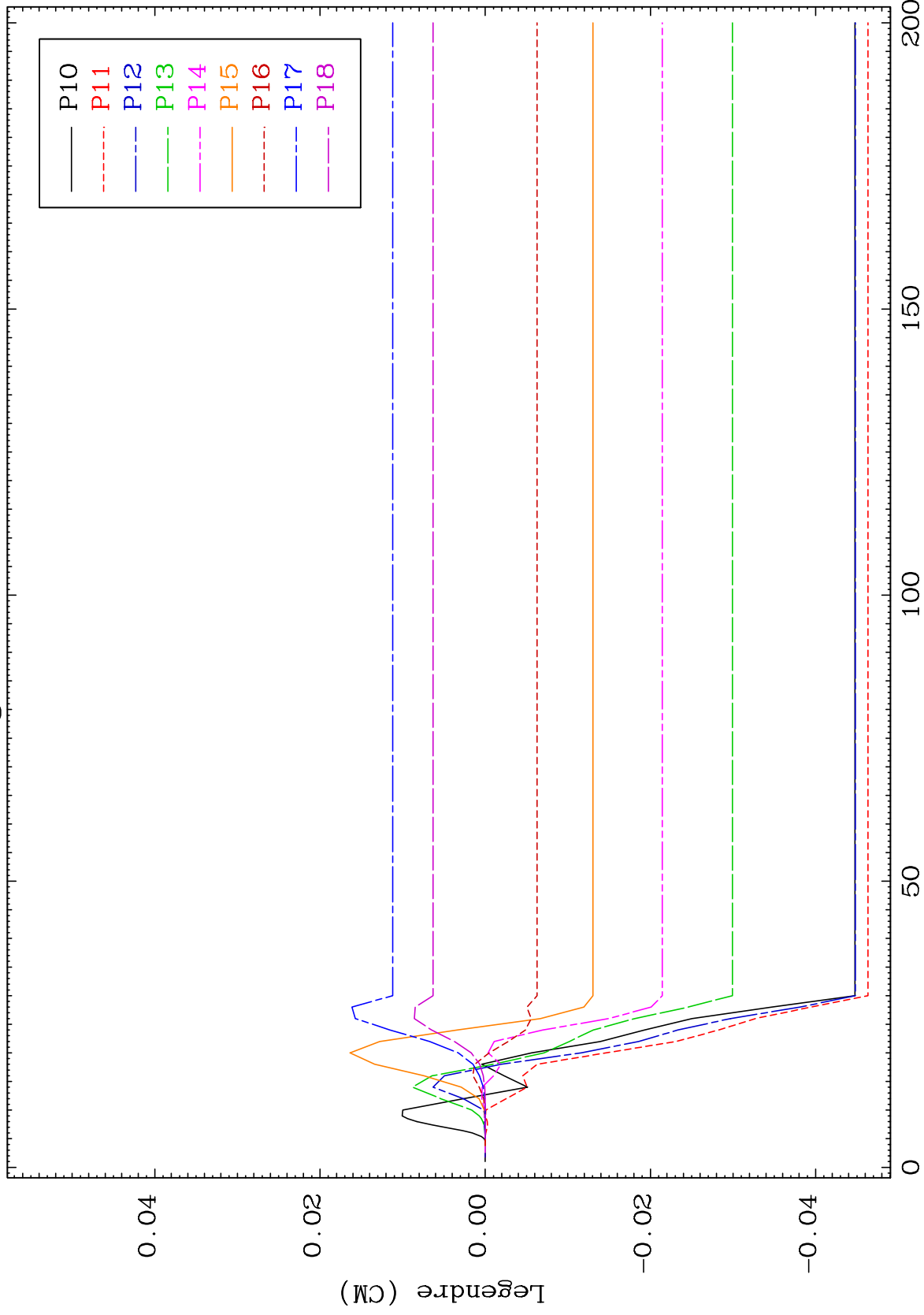
62-Sm-142



MAT 6219

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

62-Sm-142



62-Sm-142

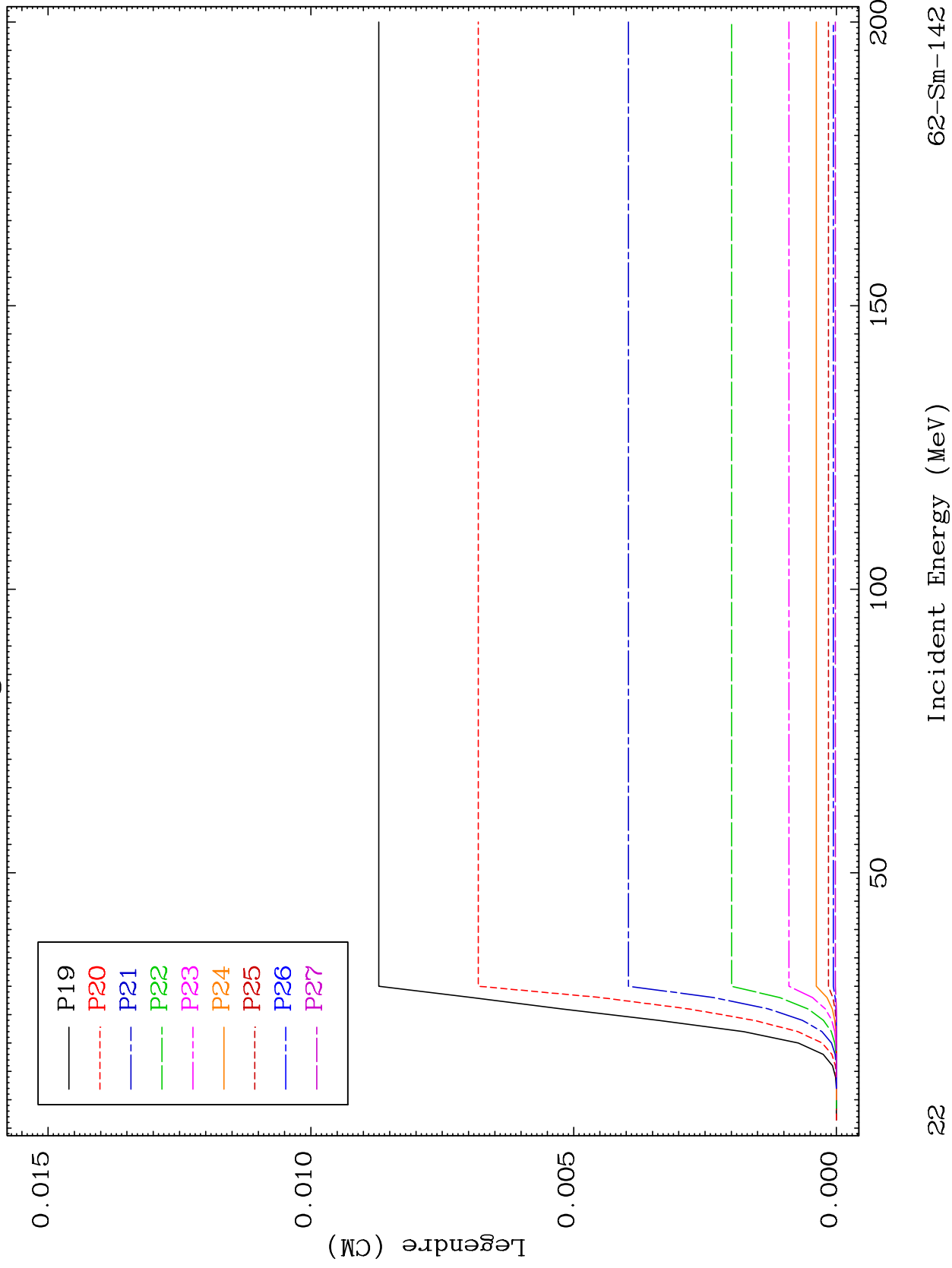
Incident Energy (MeV)

21

MAT 6219

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

62-Sm-142

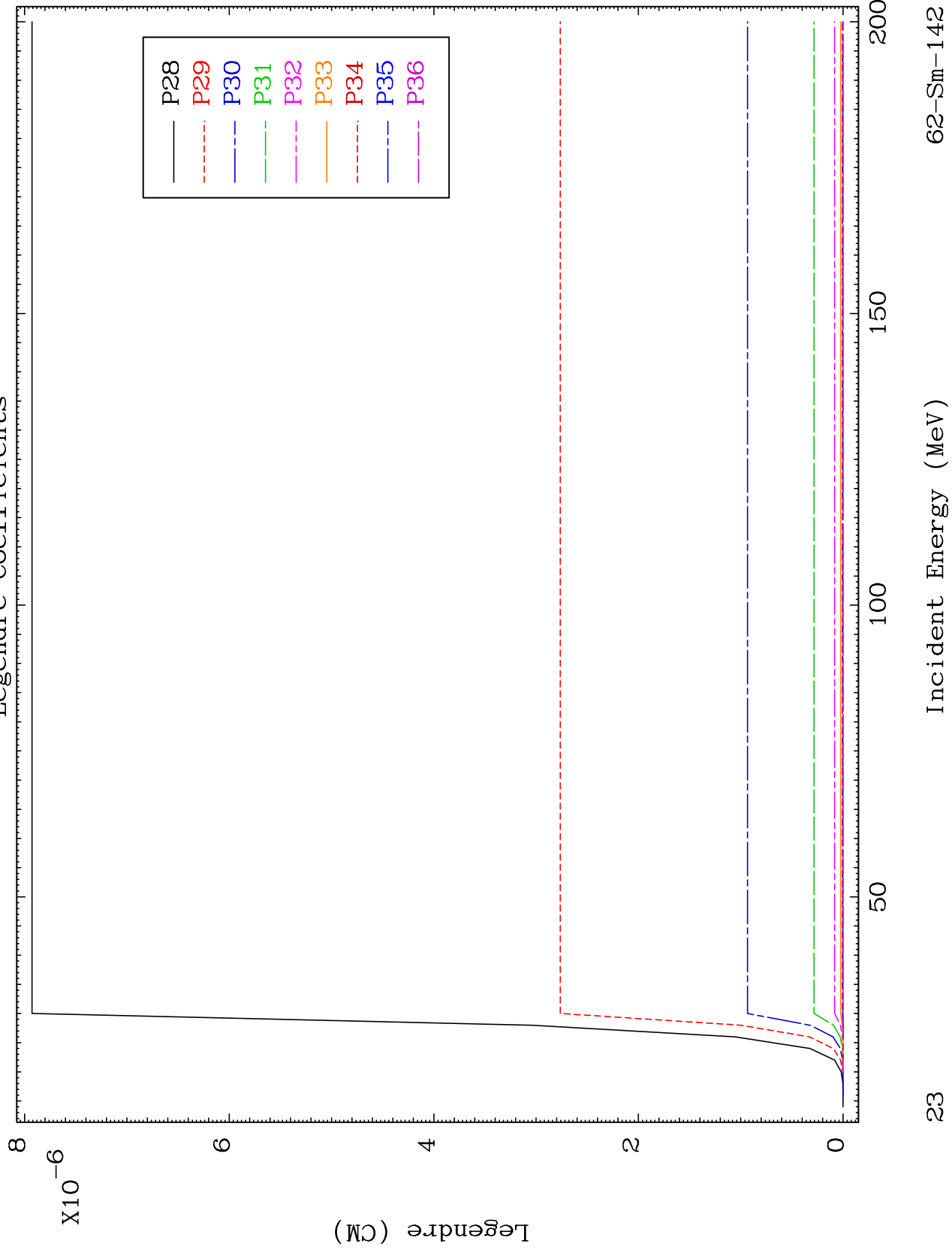


22

MAT 6219

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

62-Sm-142



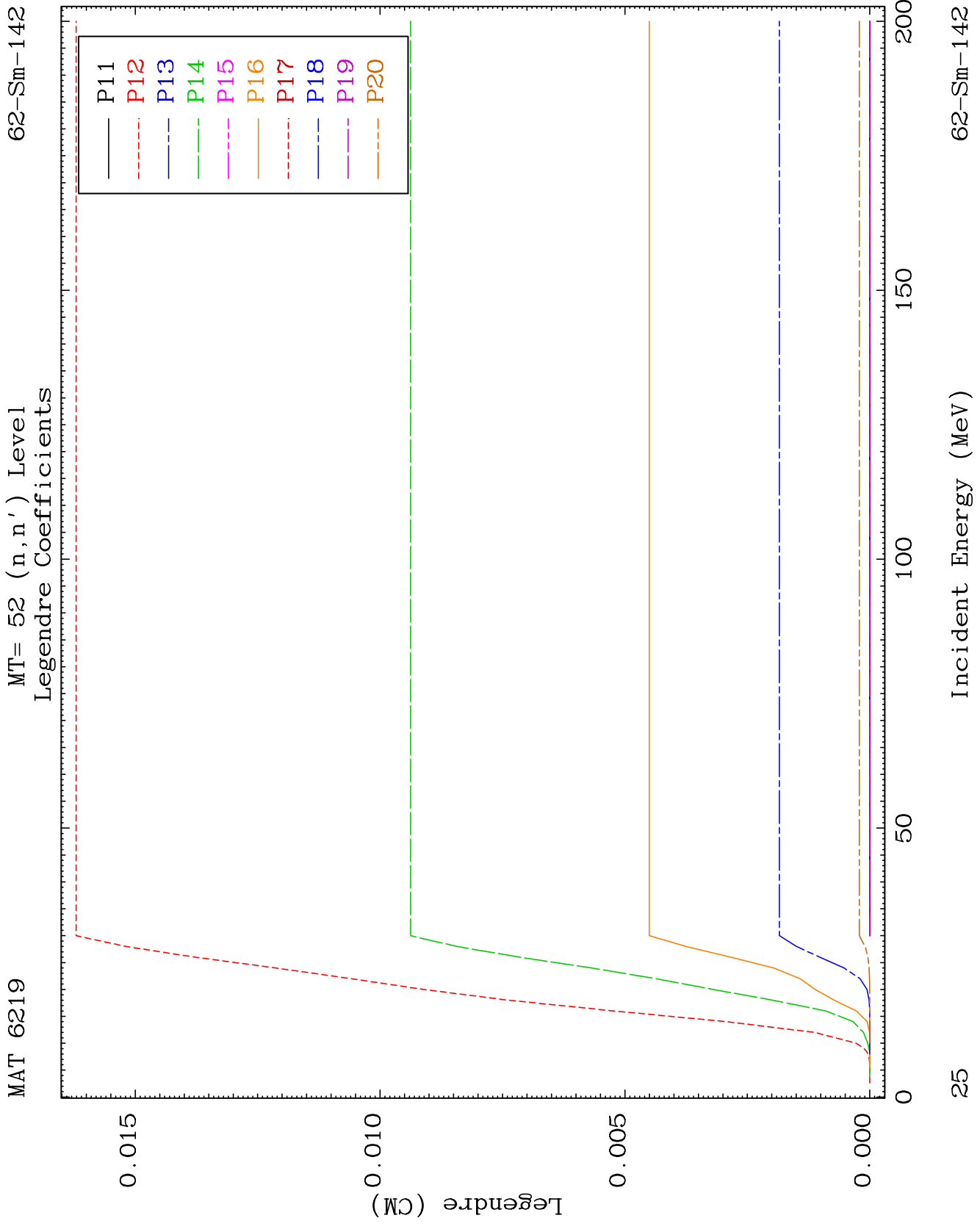
23

Incident Energy (MeV)

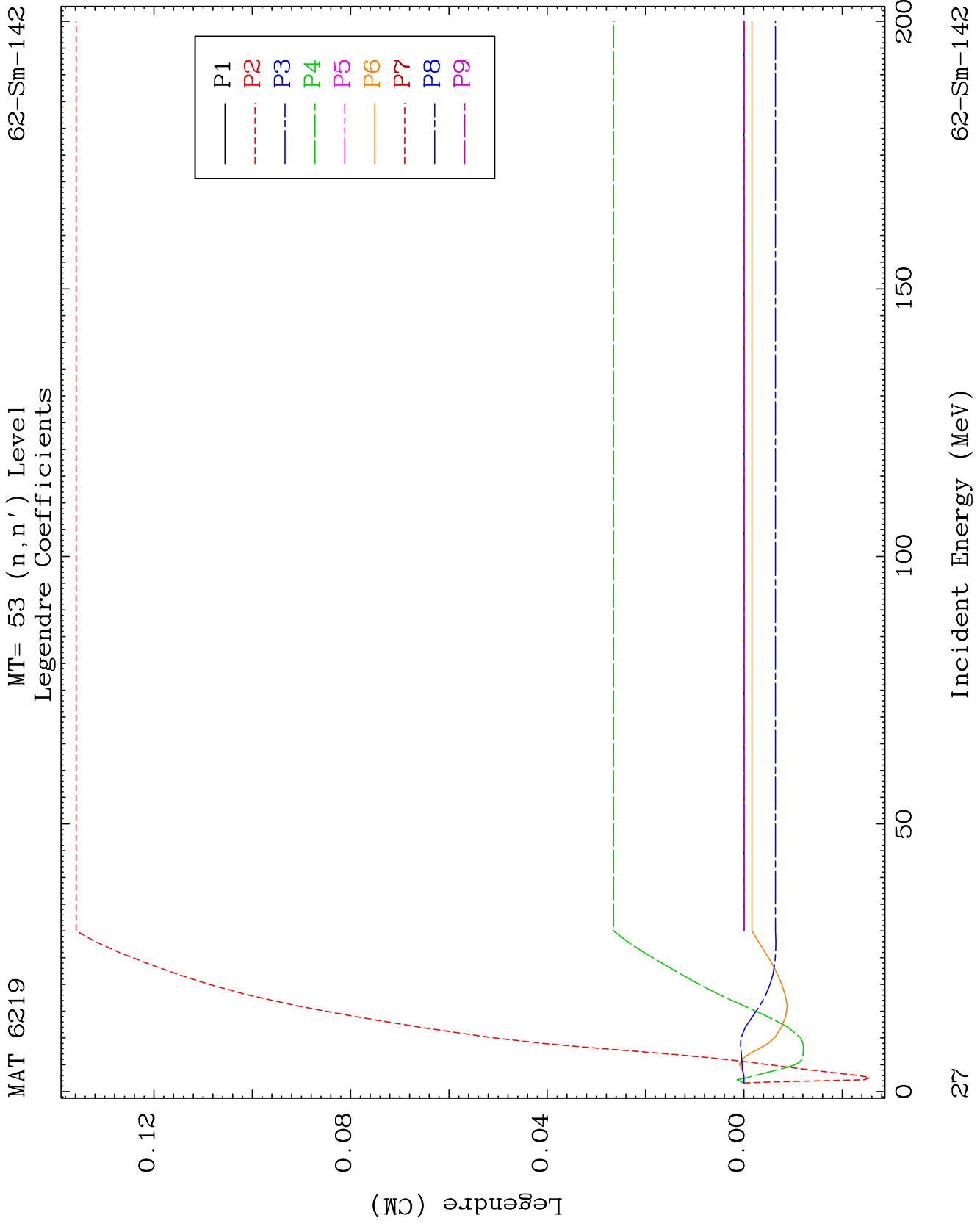
62-Sm-142







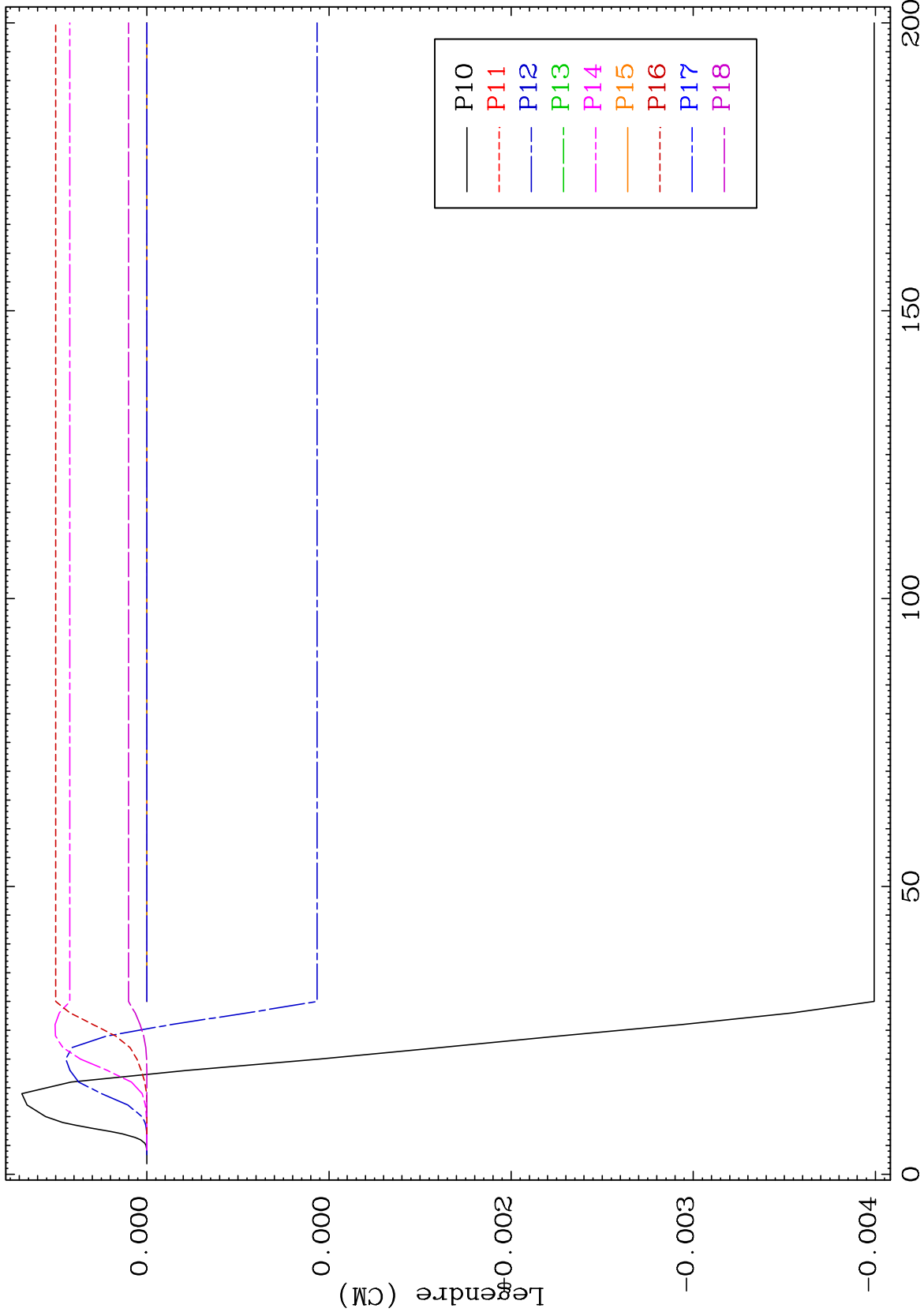




MAT 6219

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

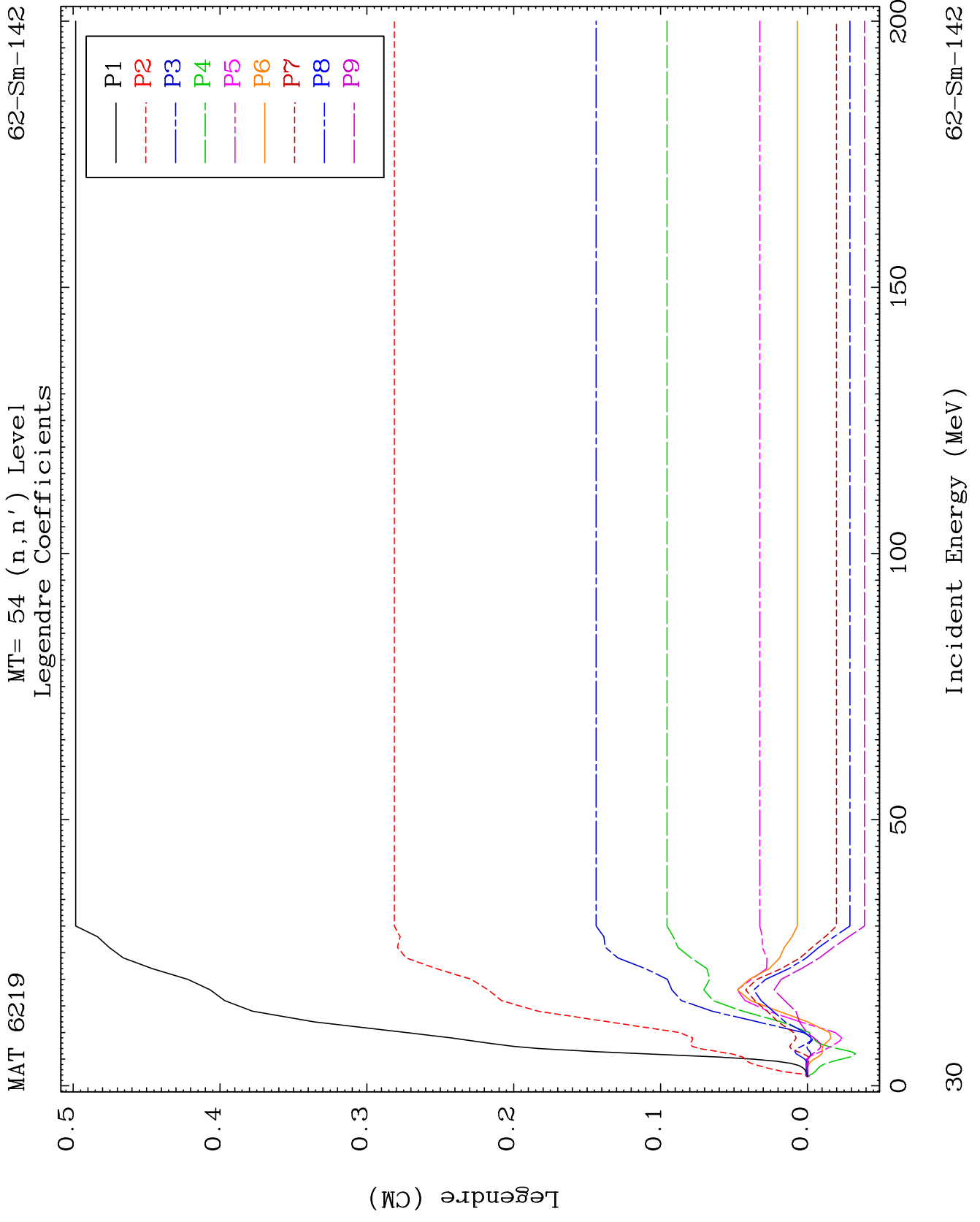
62-Sm-142



28

62-Sm-142

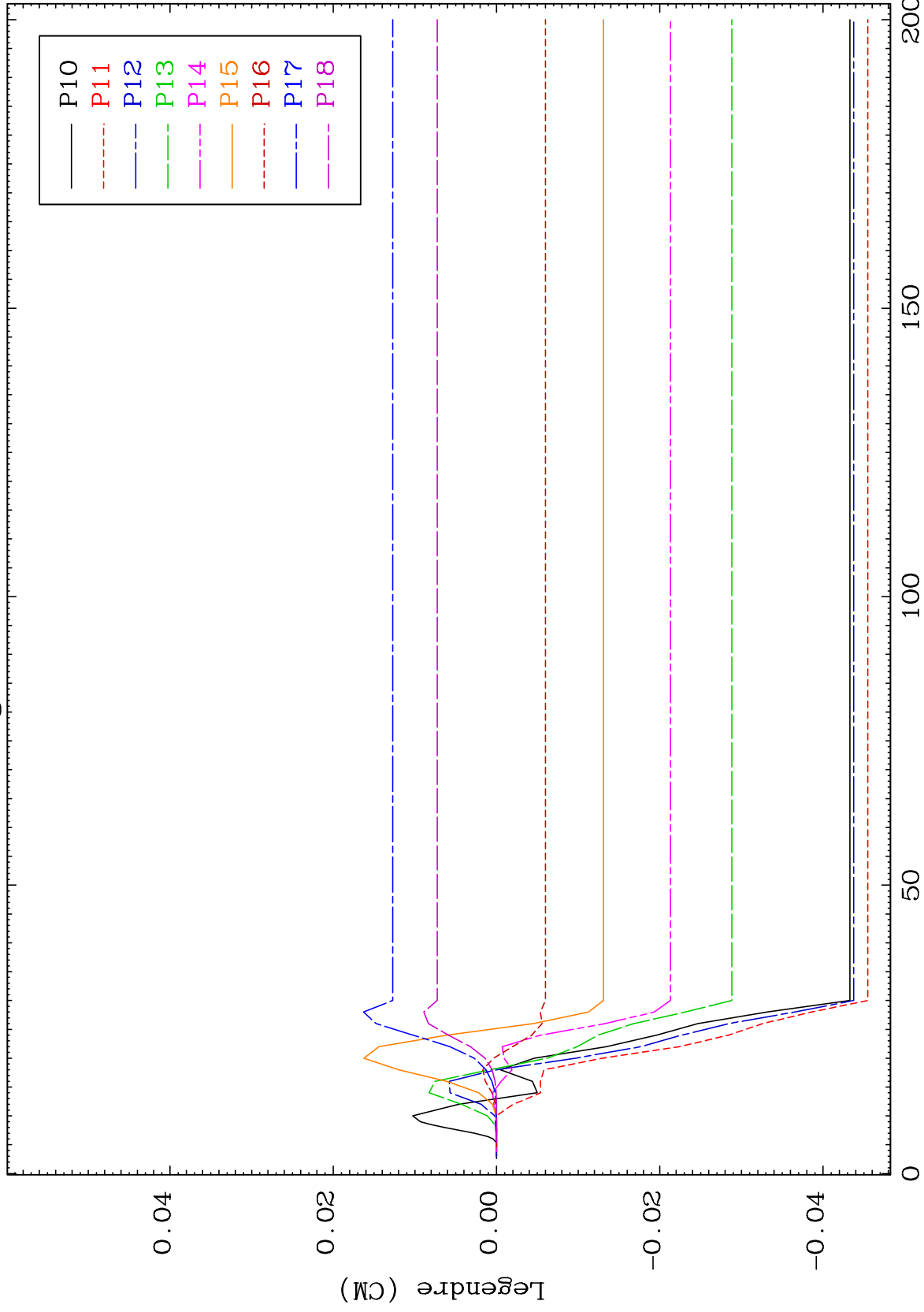




MAT 6219

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

62-Sm-142



31

Incident Energy (MeV)

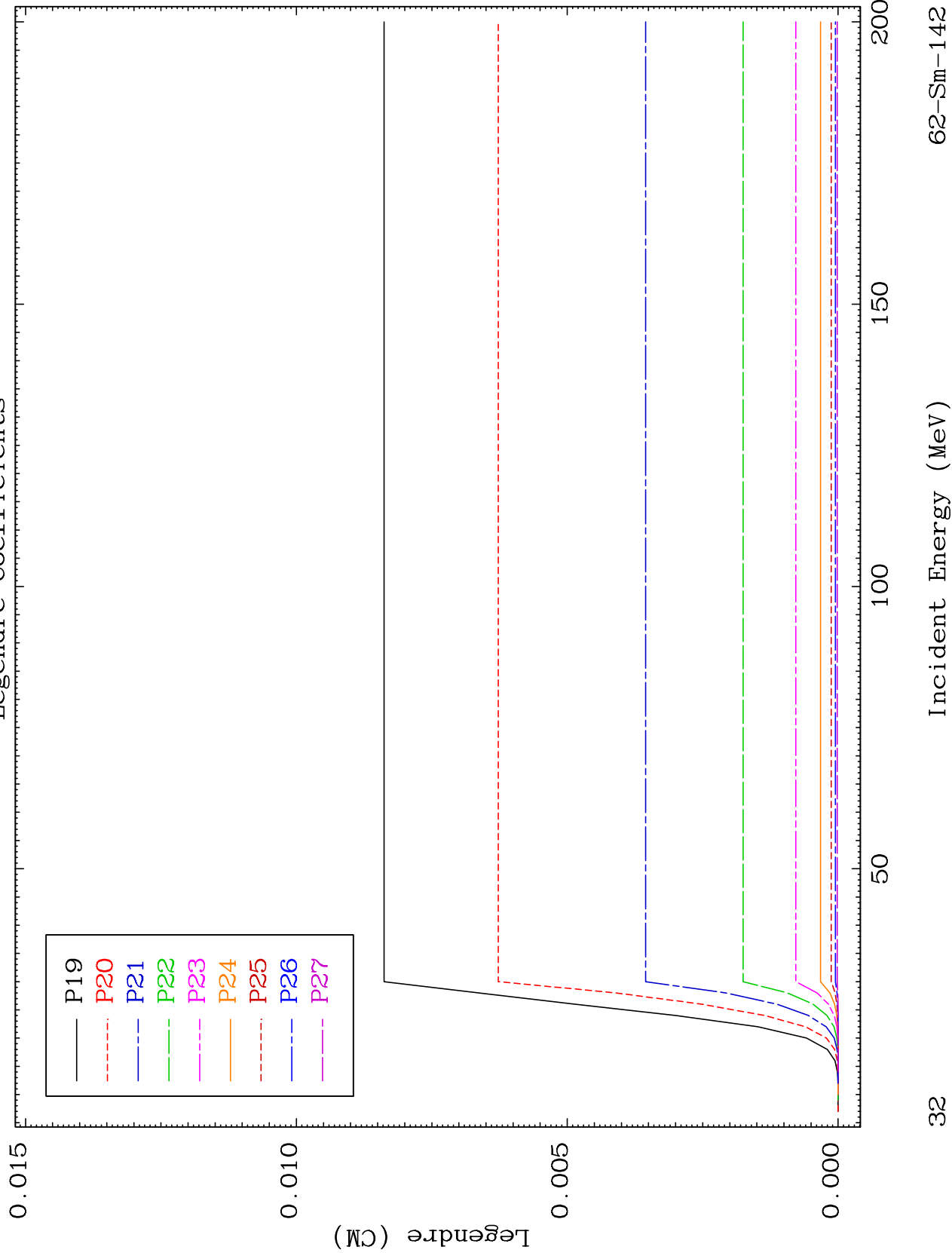
62-Sm-142



MAT 6219

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

62-Sm-142



32

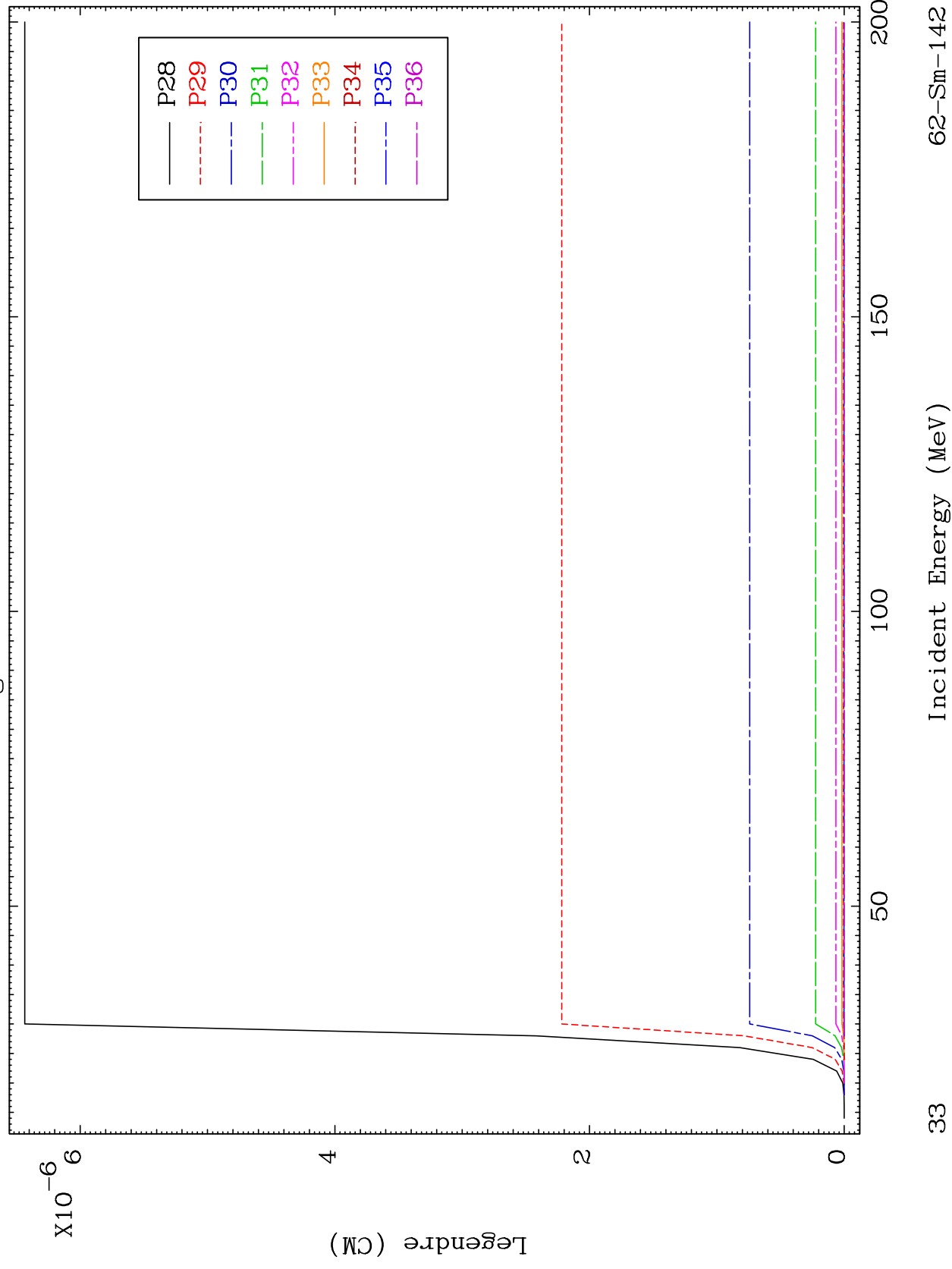
Incident Energy (MeV)

62-Sm-142

MAT 6219

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

62-Sm-142



33

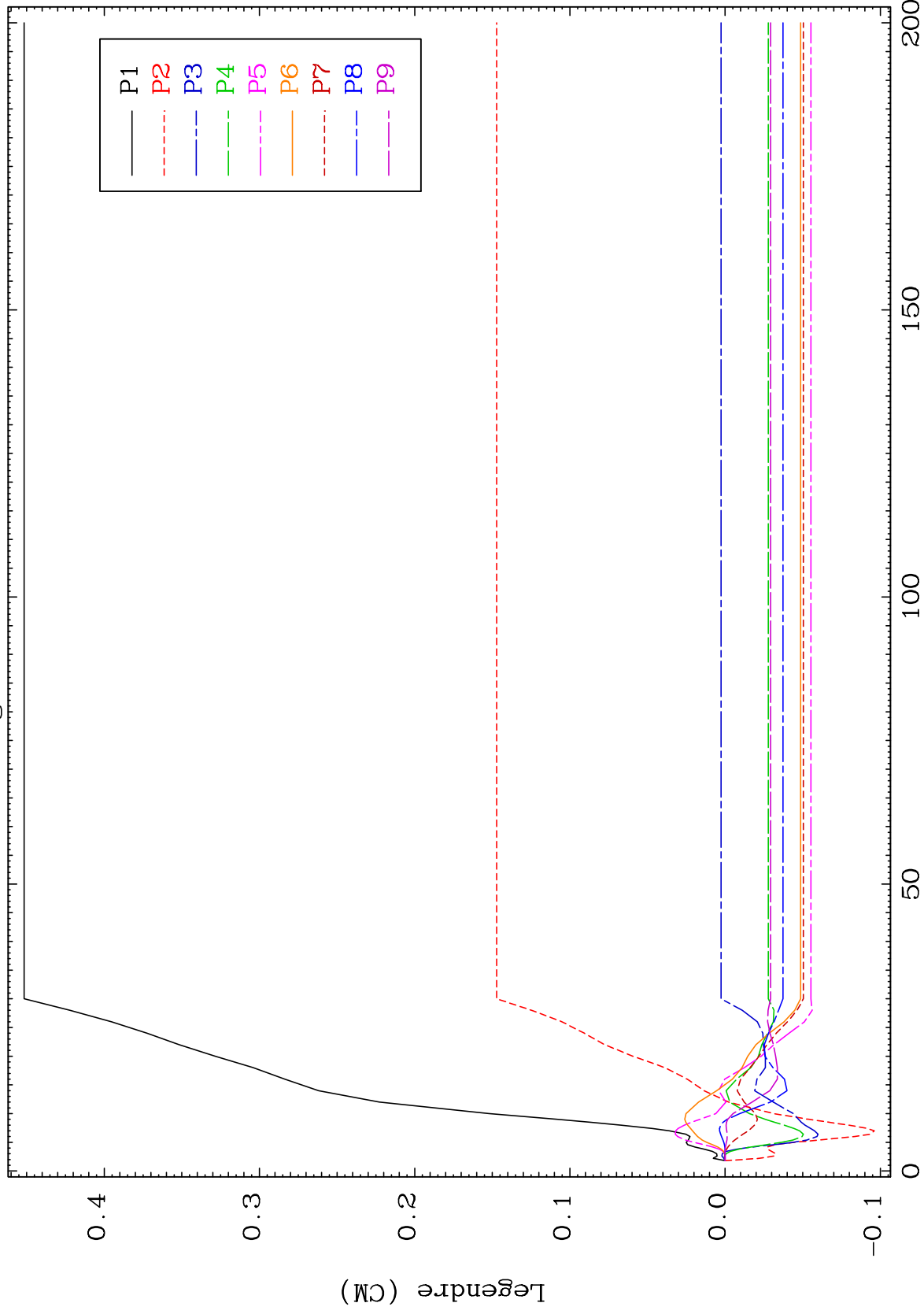
Incident Energy (MeV)

62-Sm-142

MAT 6219

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

62-Sm-142



34

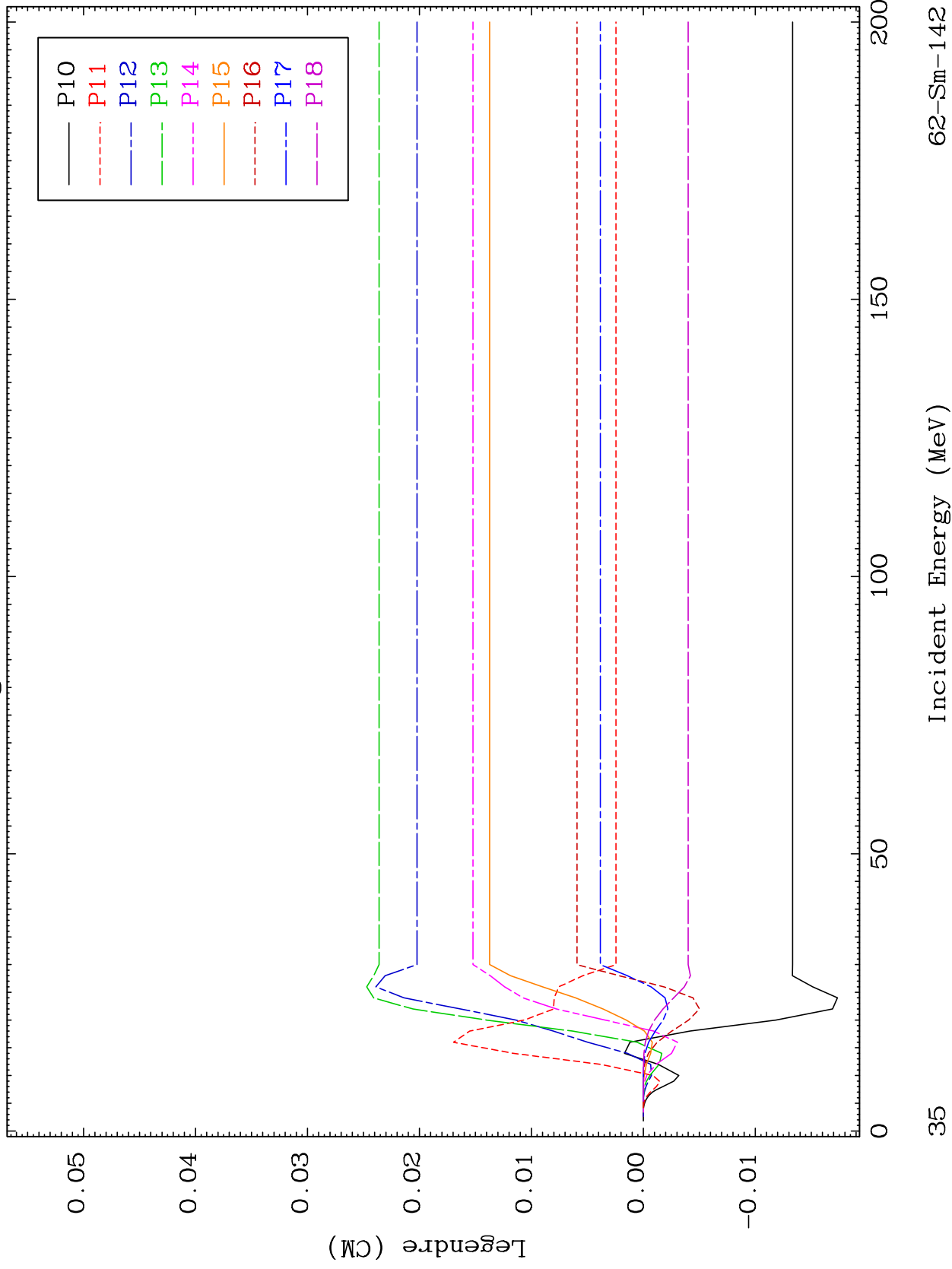
Incident Energy (MeV)

62-Sm-142

MAT 6219

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

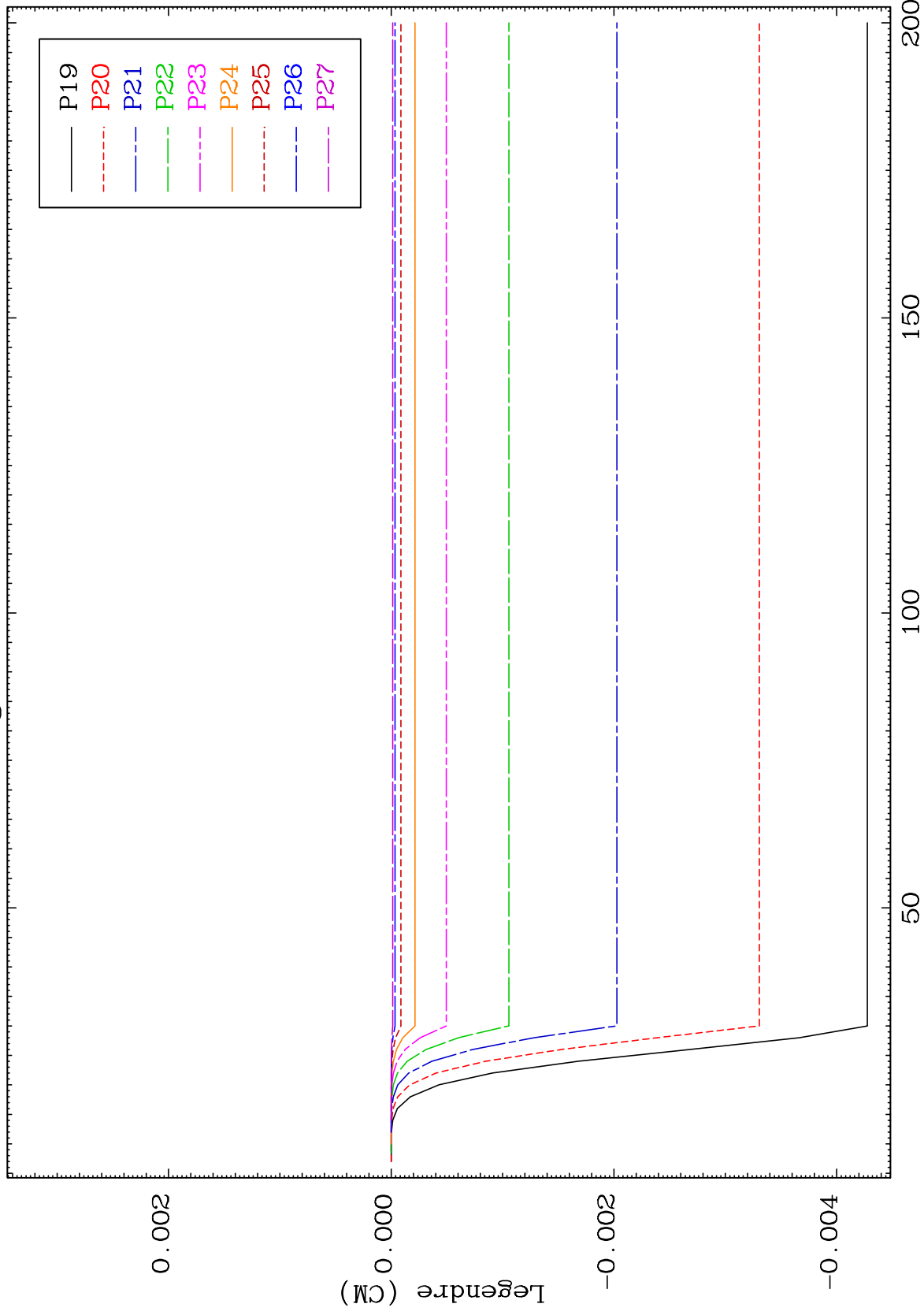
62-Sm-142



MAT 6219

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

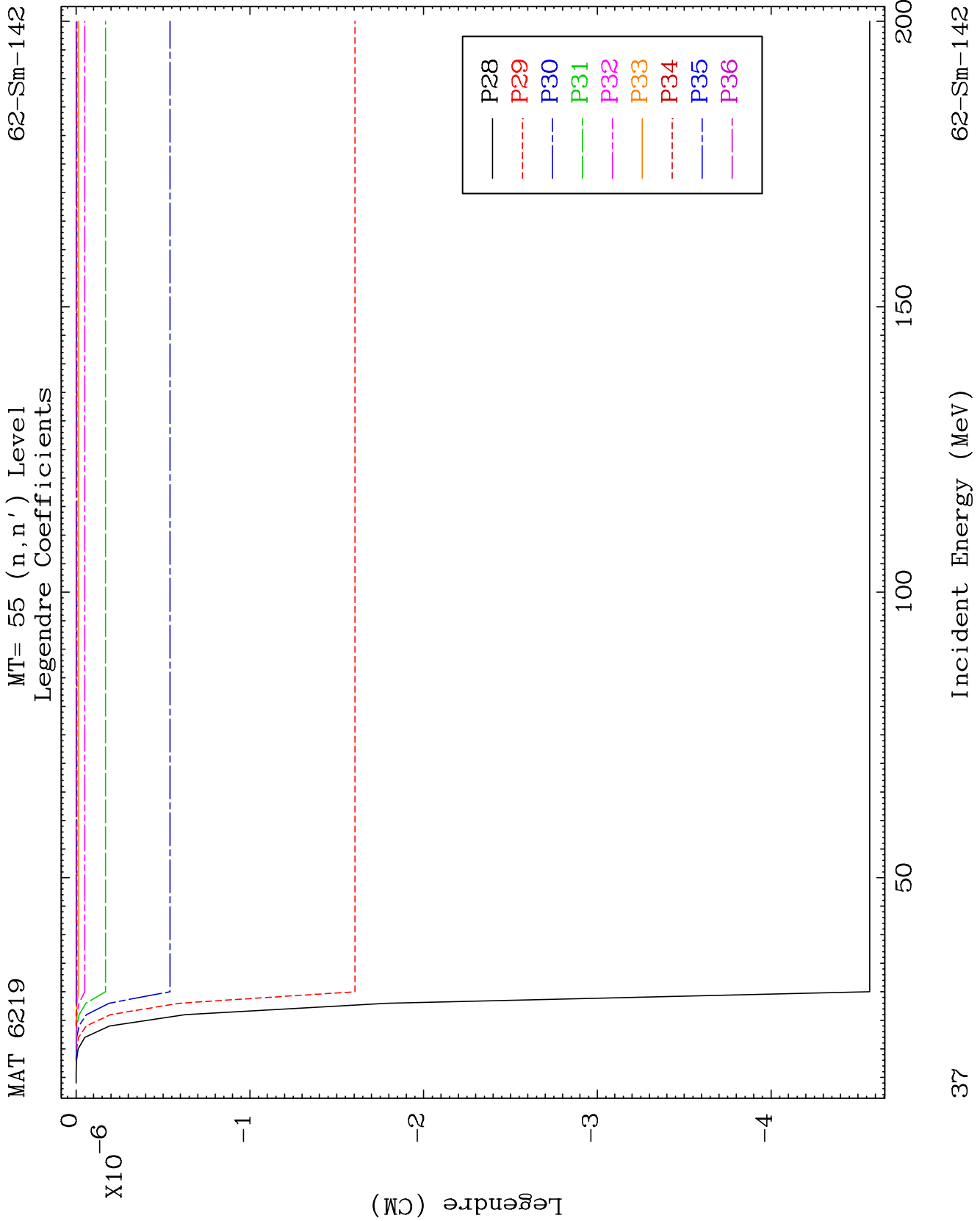
62-Sm-142



36

Incident Energy (MeV)

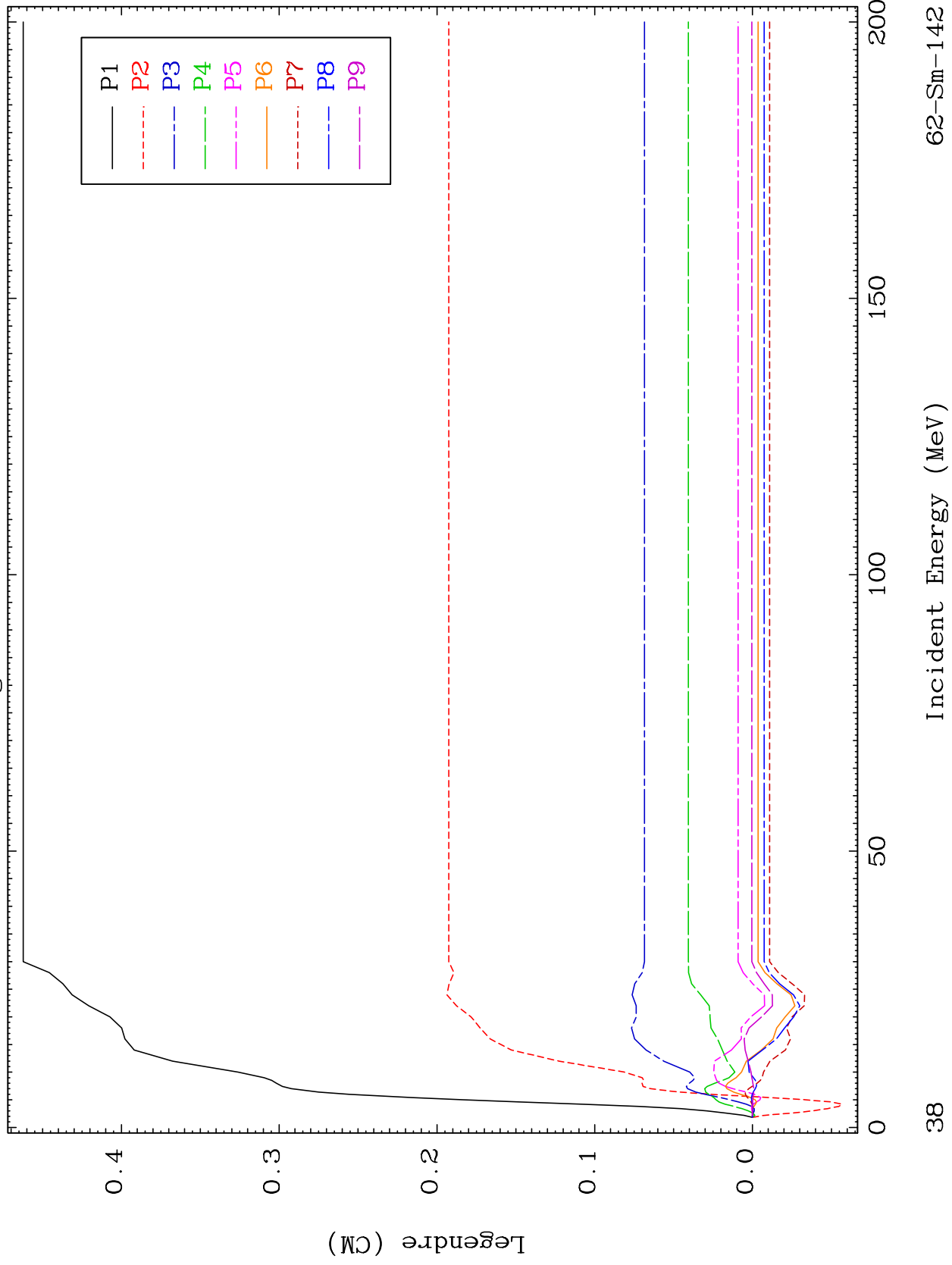
62-Sm-142



MAT 6219

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

62-Sm-142



62-Sm-142

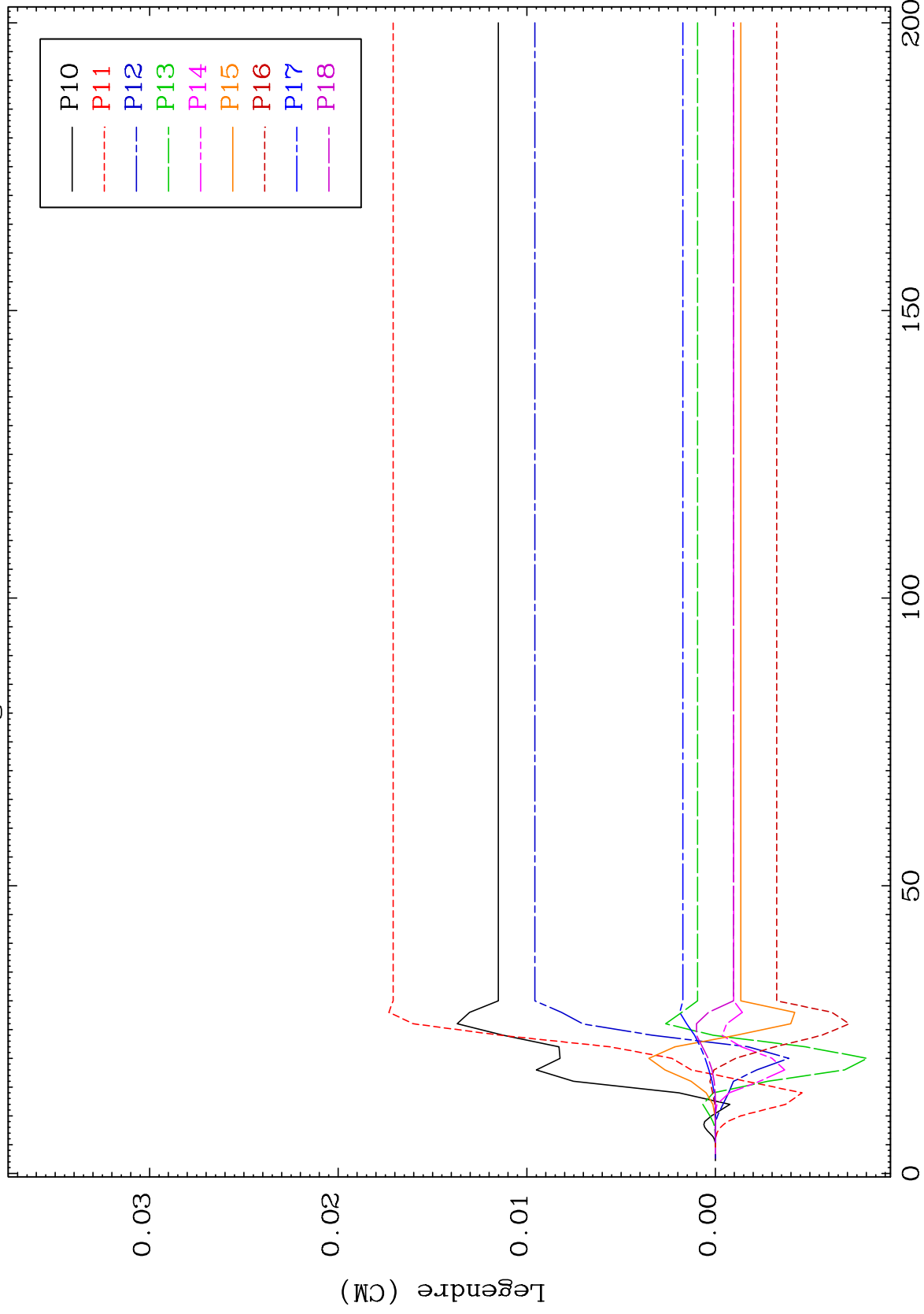
Incident Energy (MeV)

38

MAT 6219

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

62-Sm-142



39

Incident Energy (MeV)

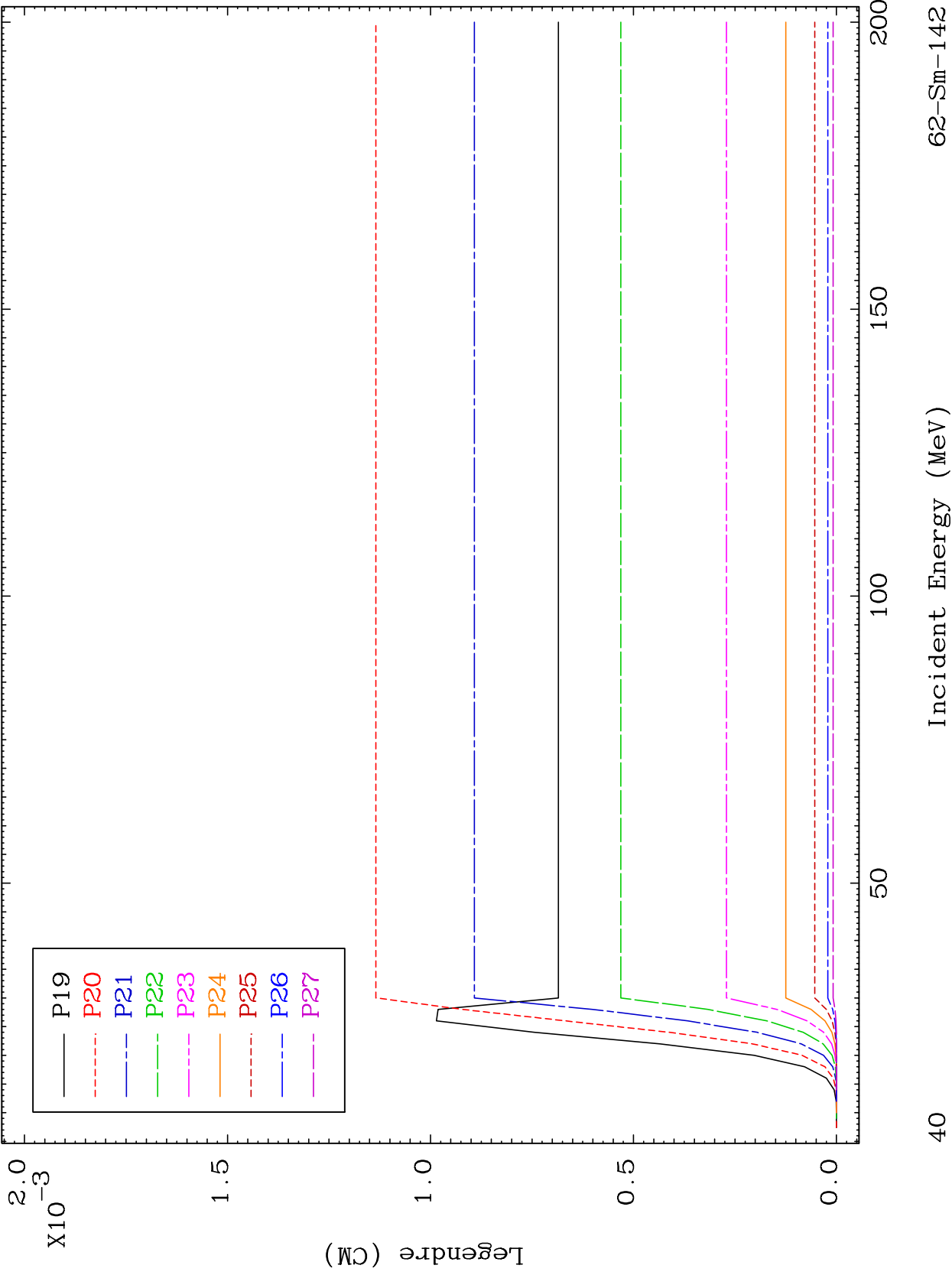
62-Sm-142



MAT 6219

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

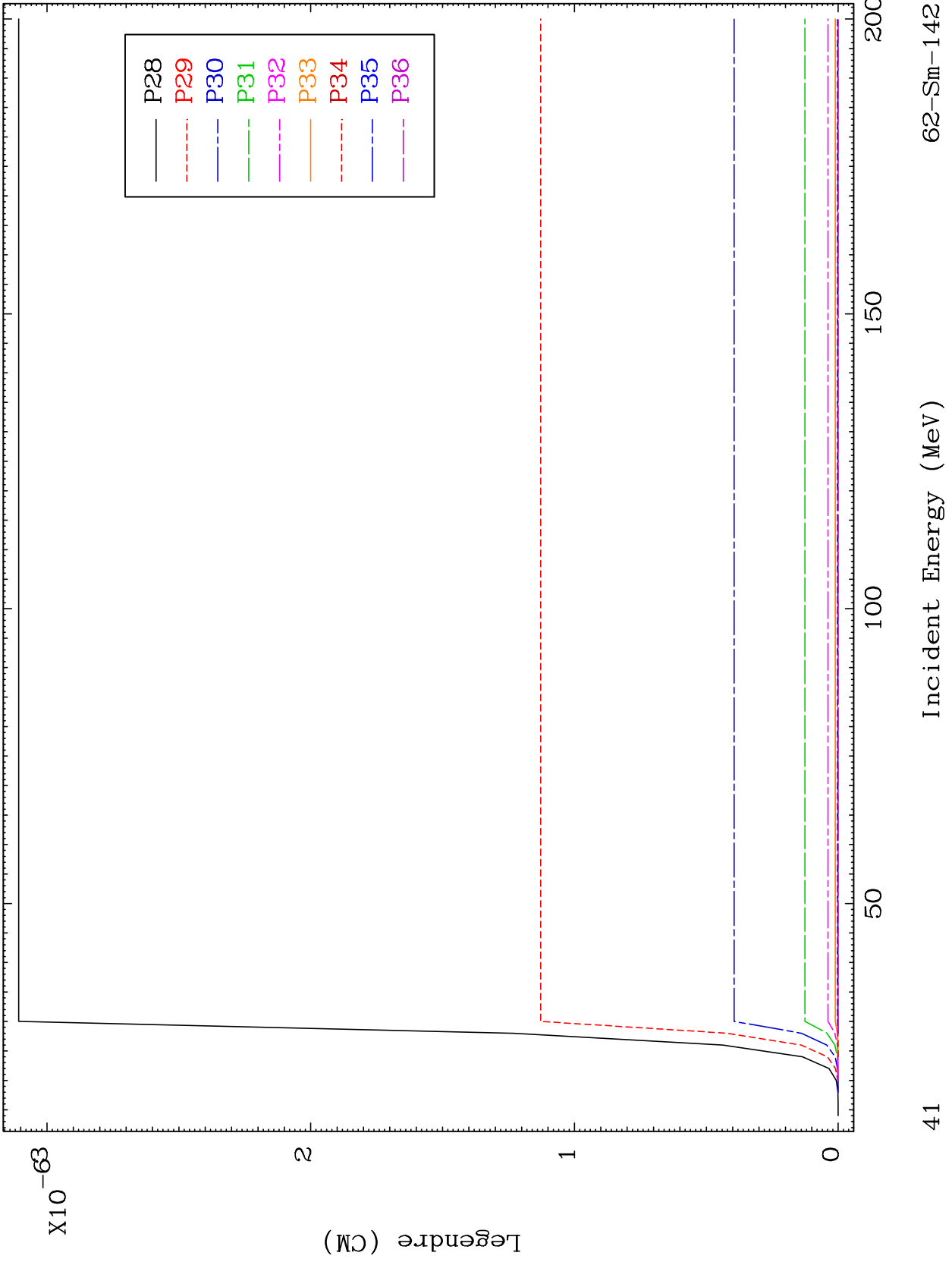
62-Sm-142



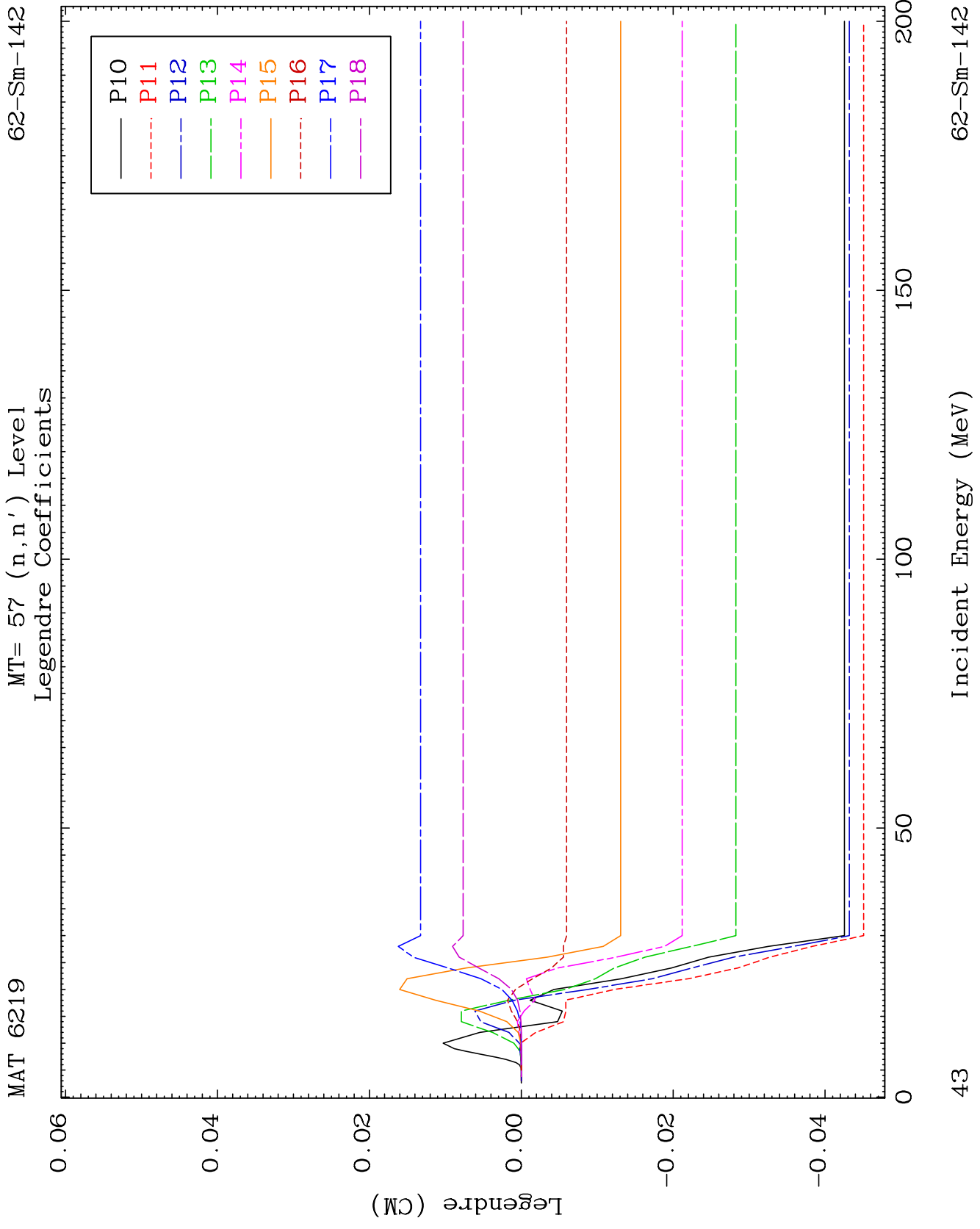
MAT 6219

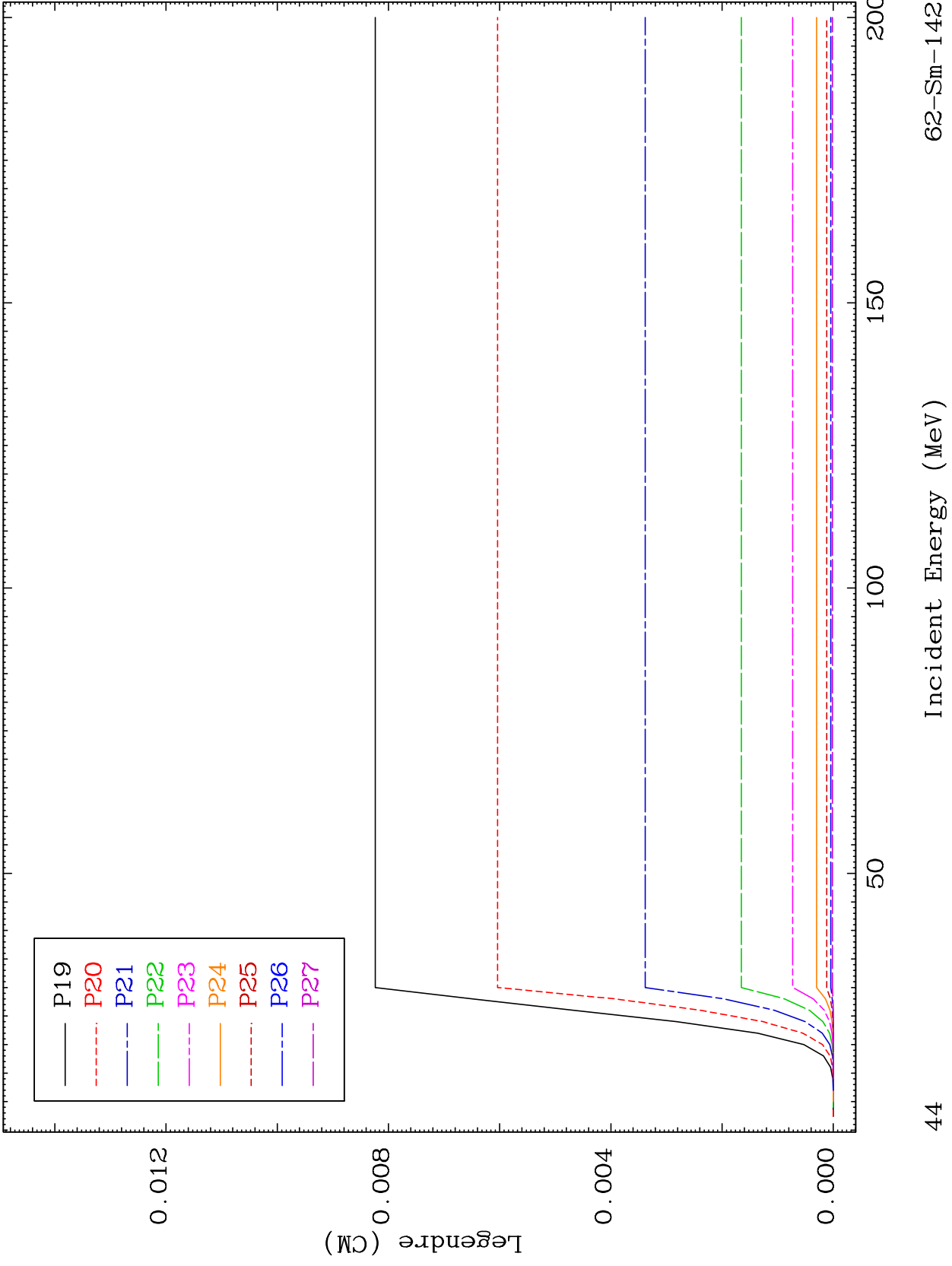
MT= 56 (n,n') Level  
Legendre Coefficients

62-Sm-142





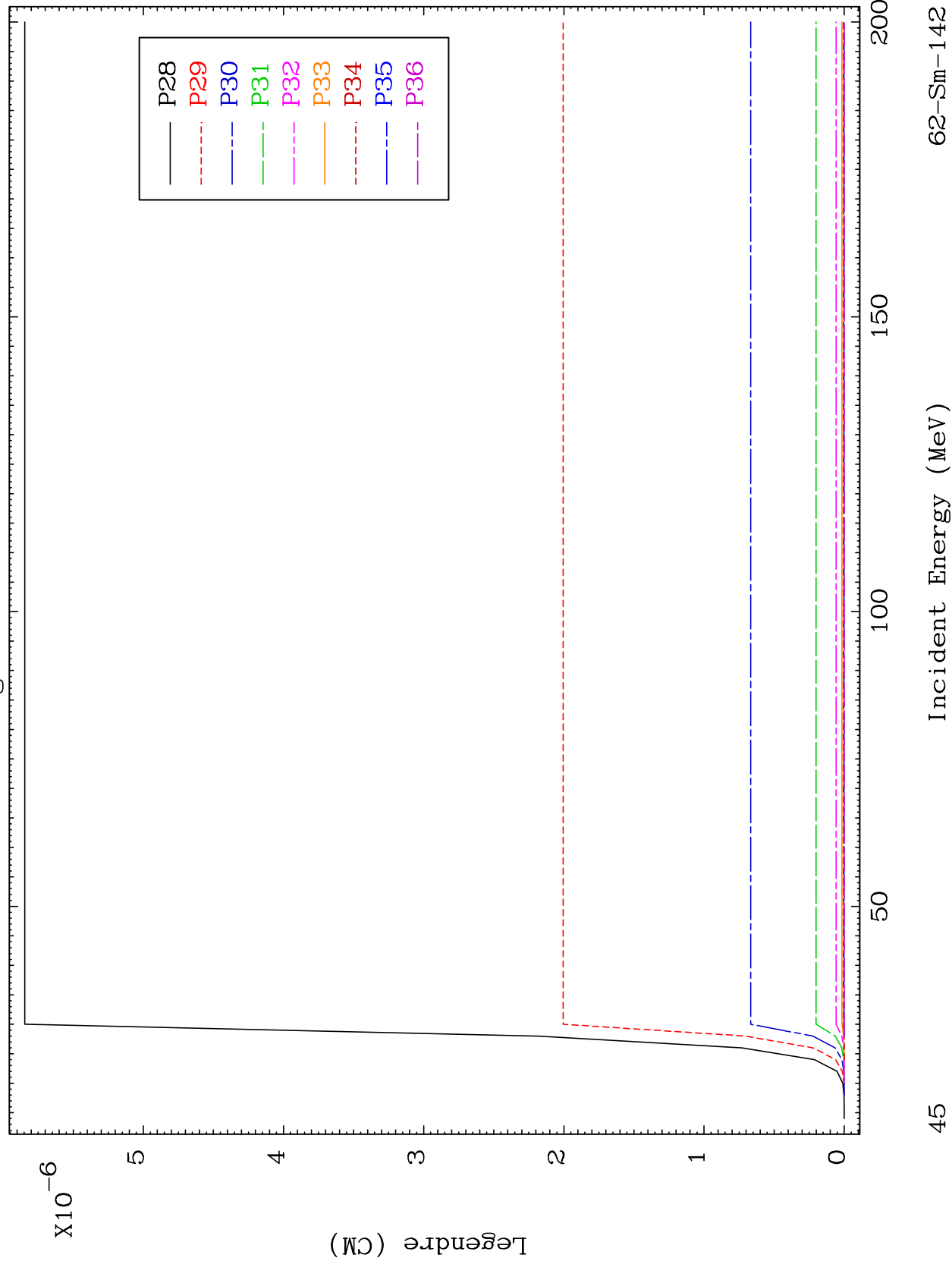


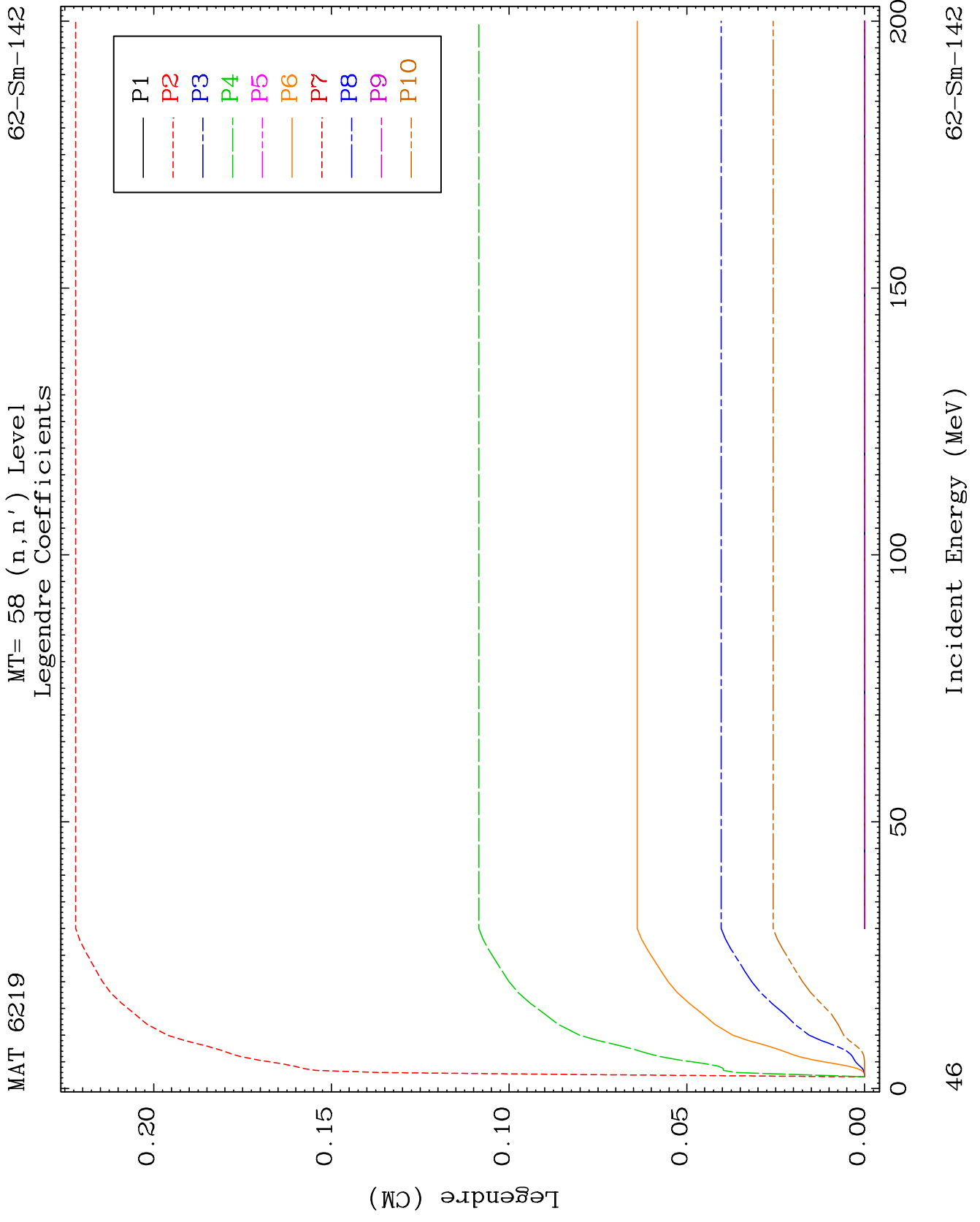


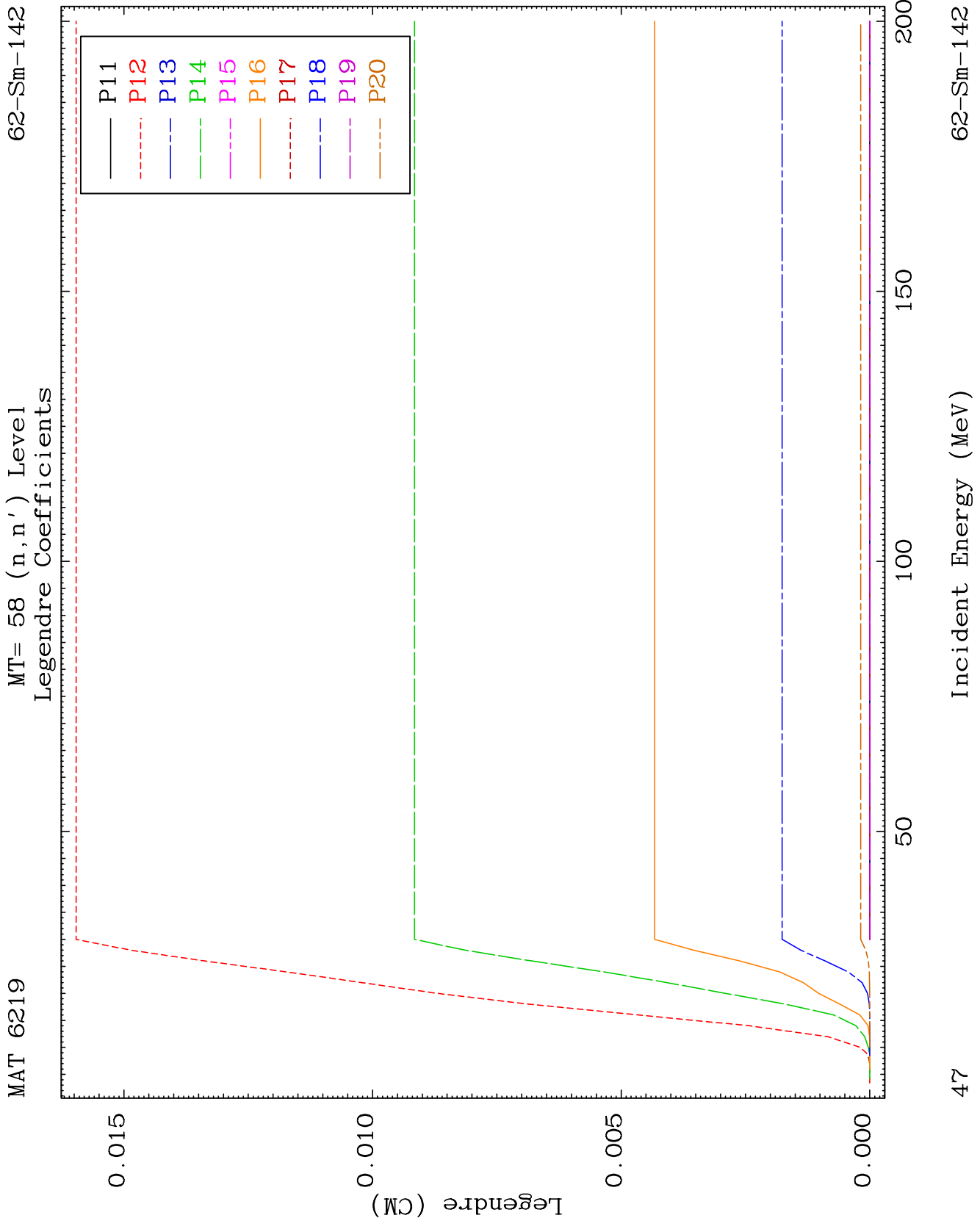
MAT 6219

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

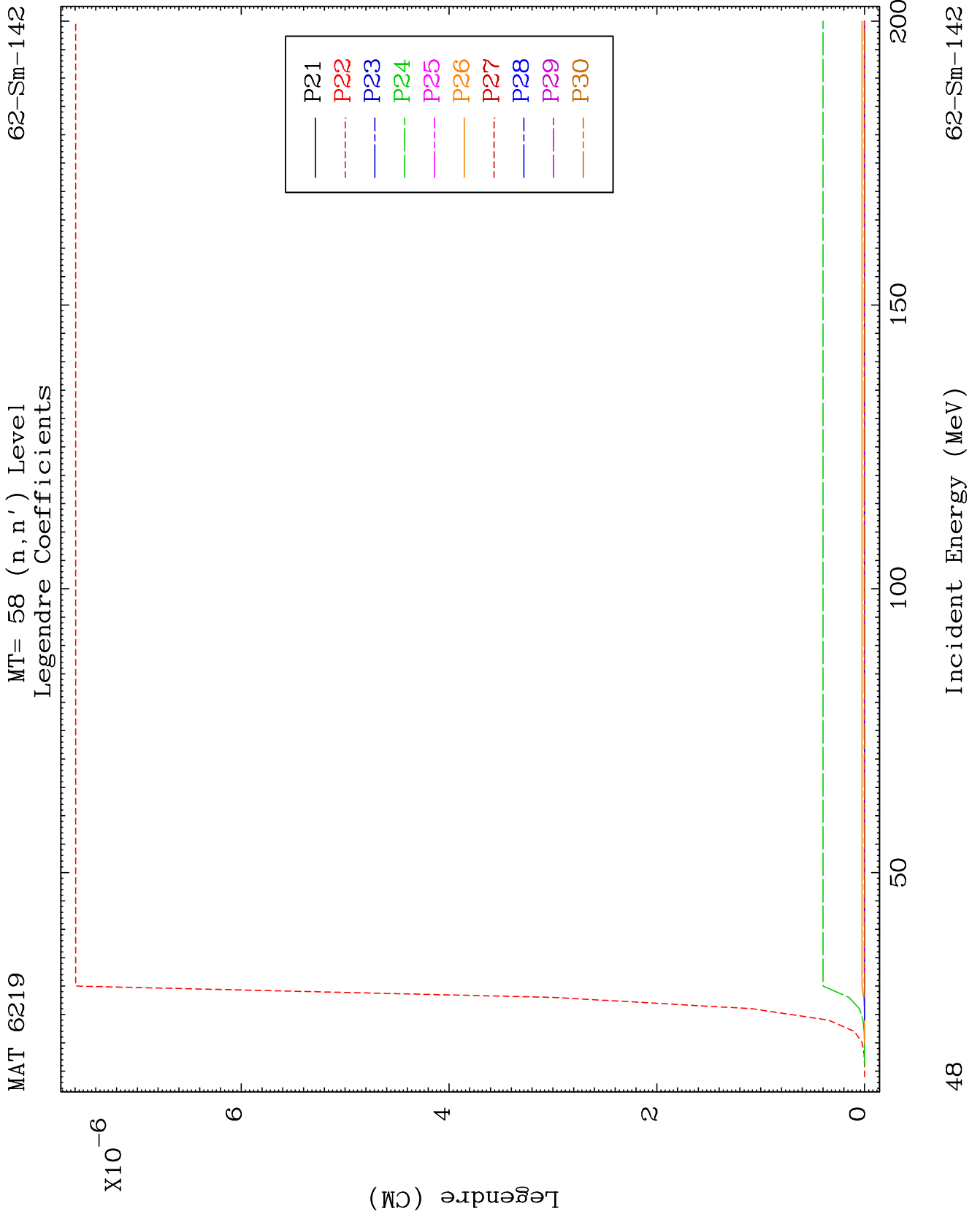
62-Sm-142



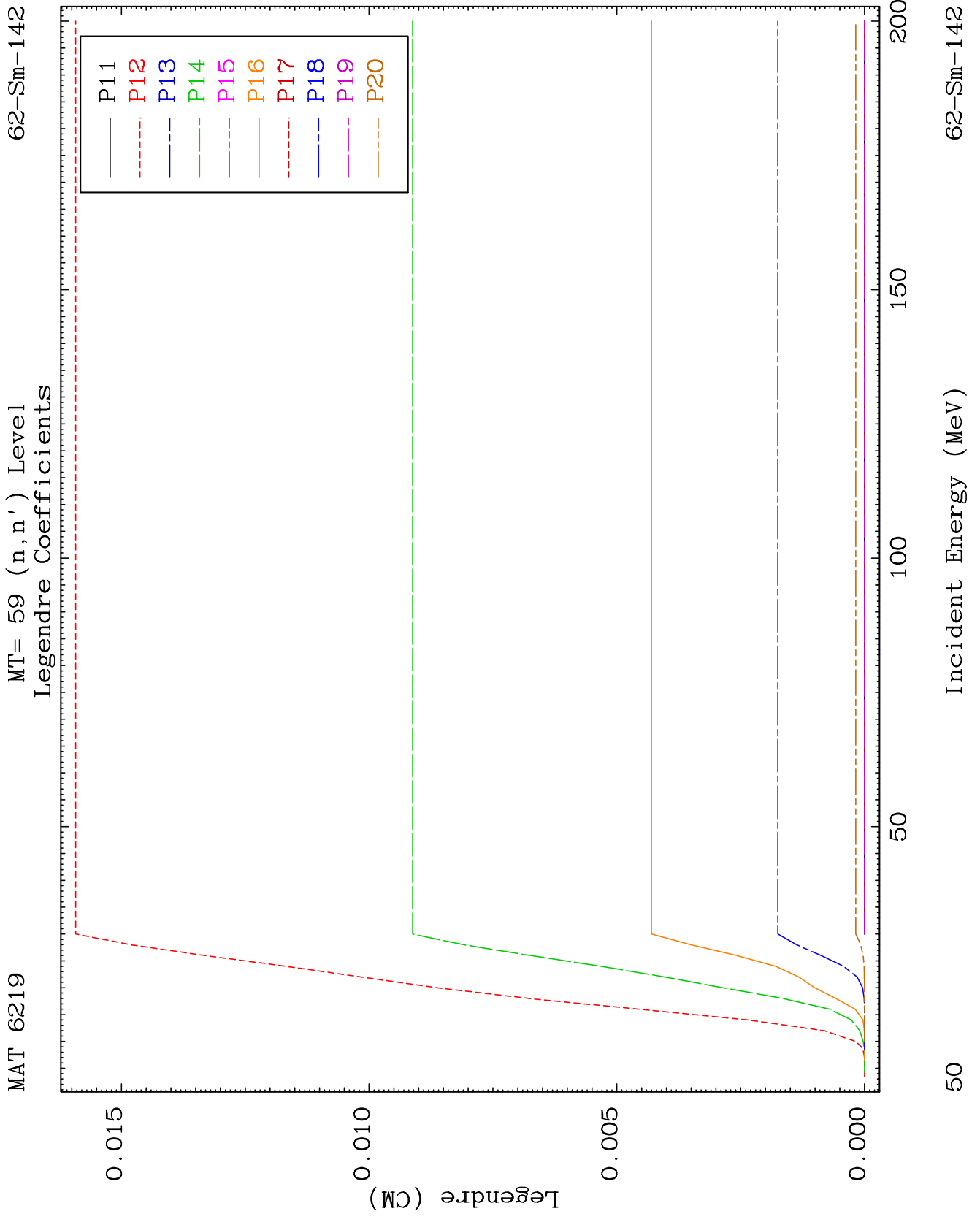


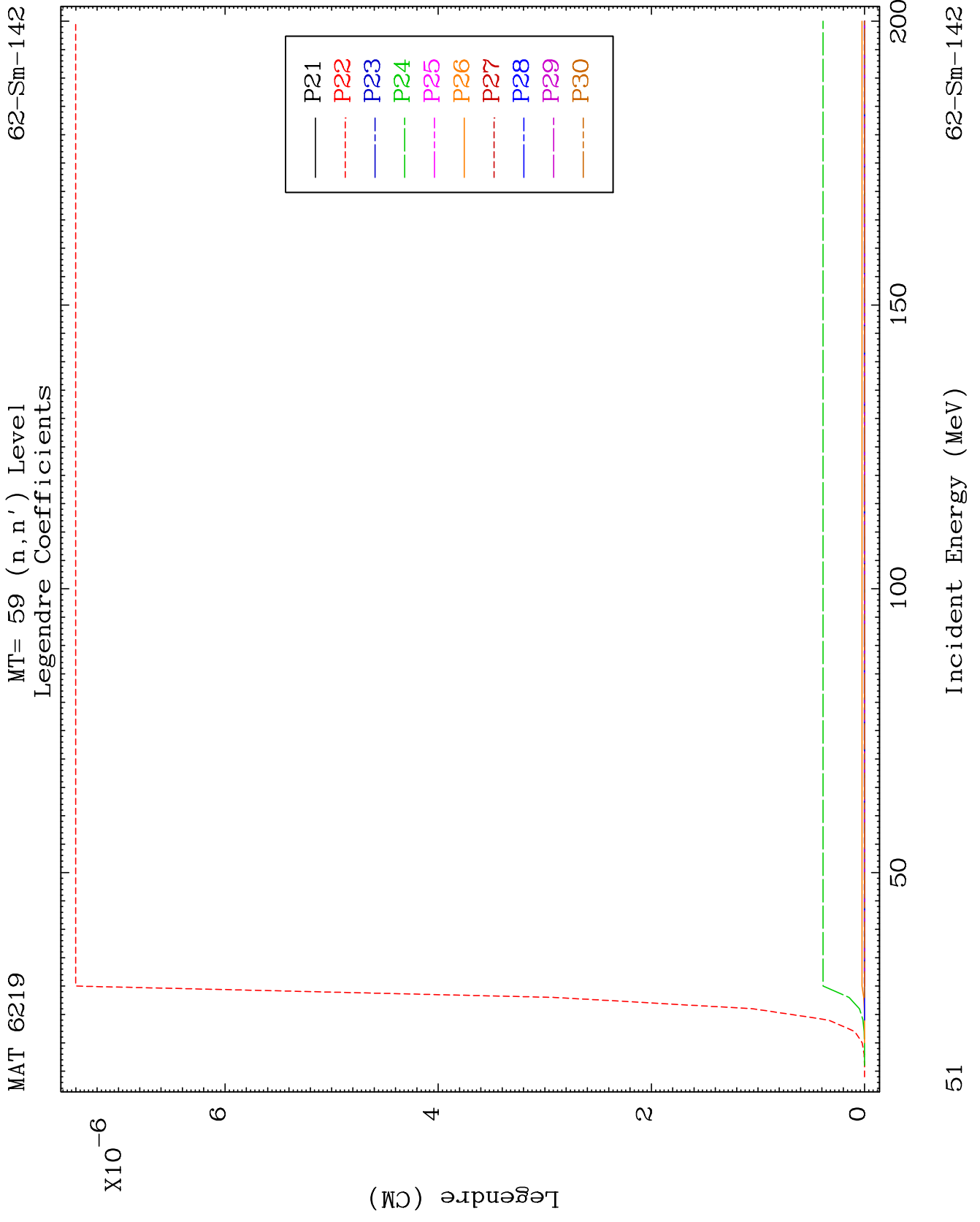








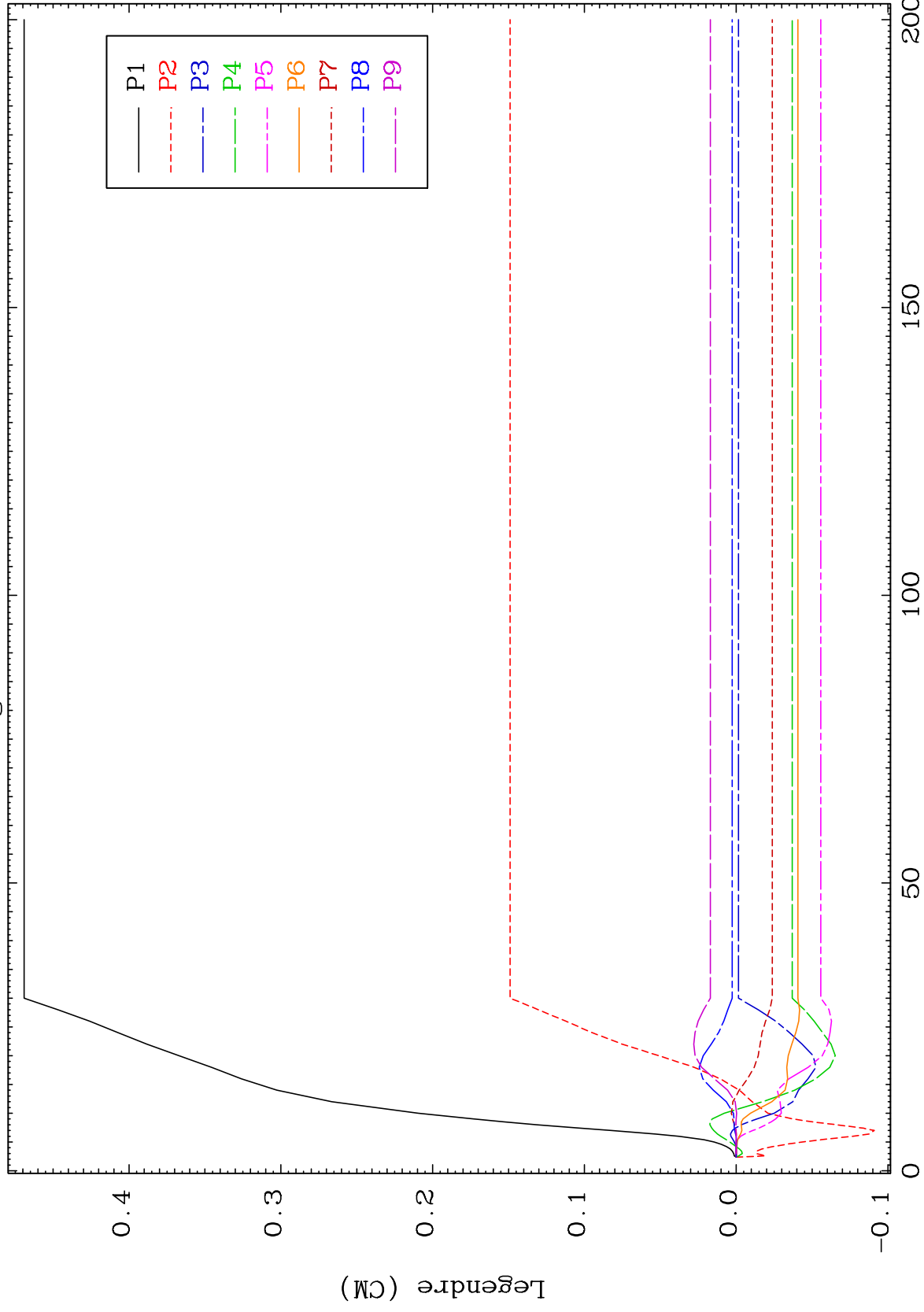




MAT 6219

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

62-Sm-142



52

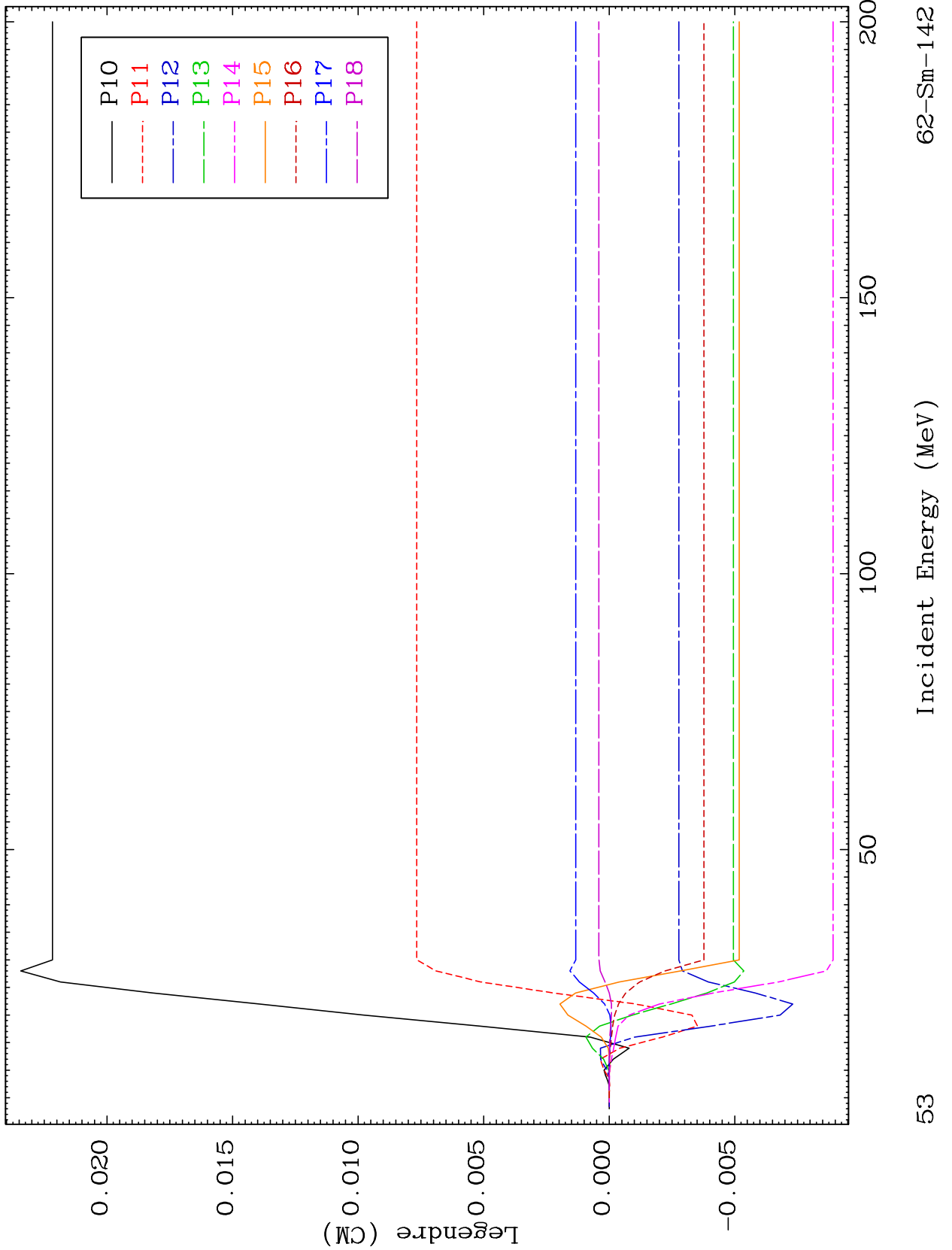
Incident Energy (MeV)

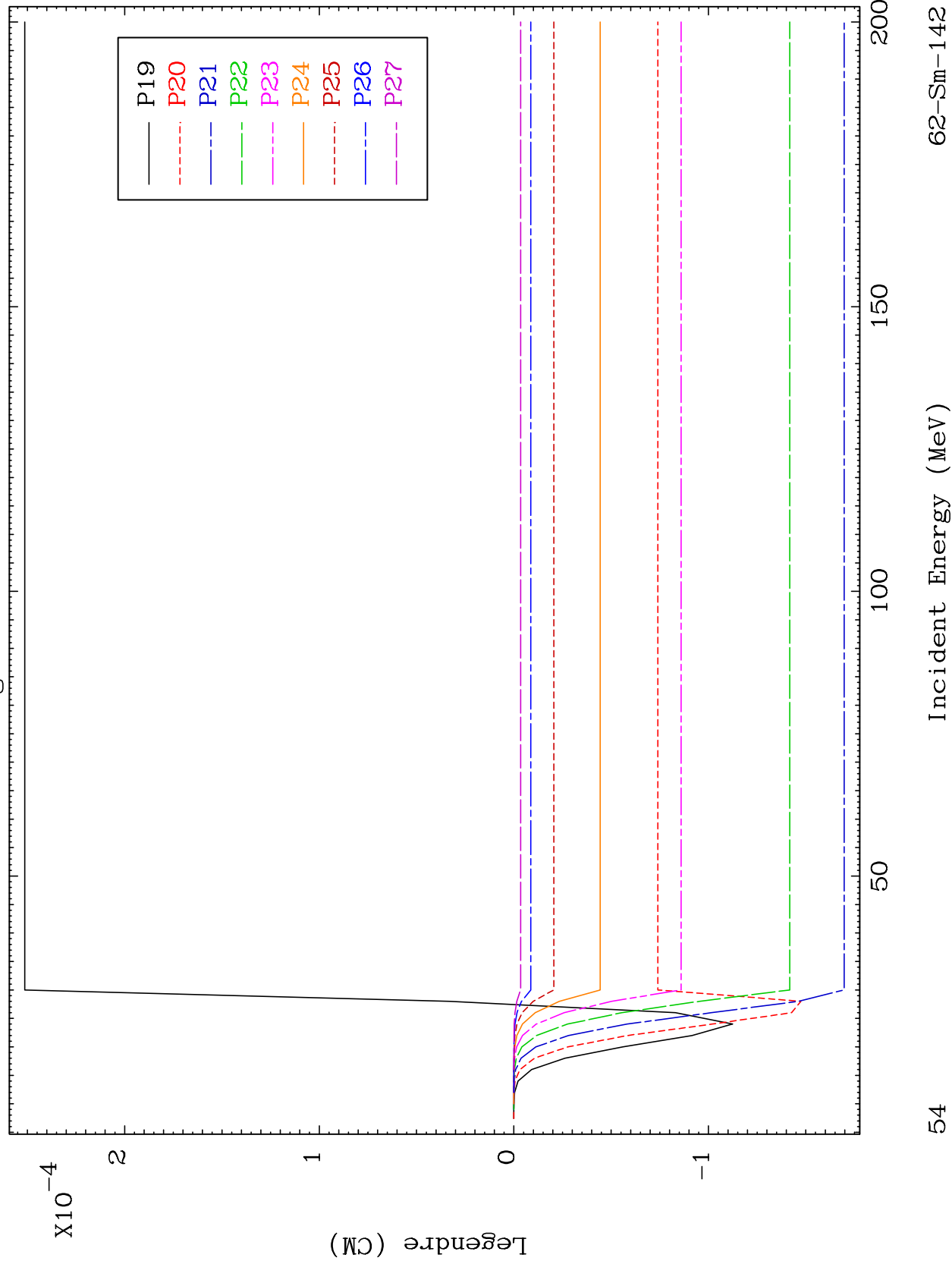
62-Sm-142

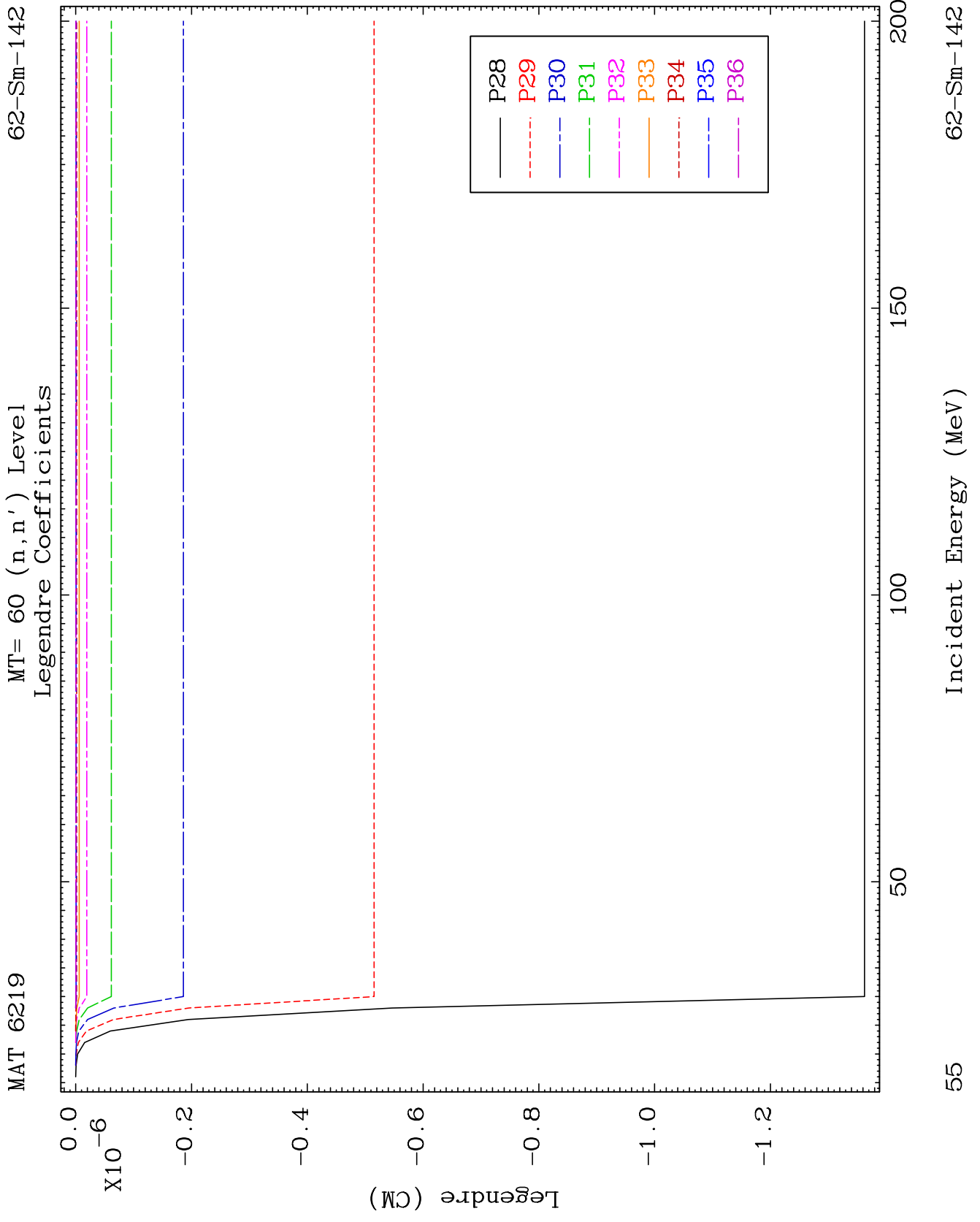
MAT 6219

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

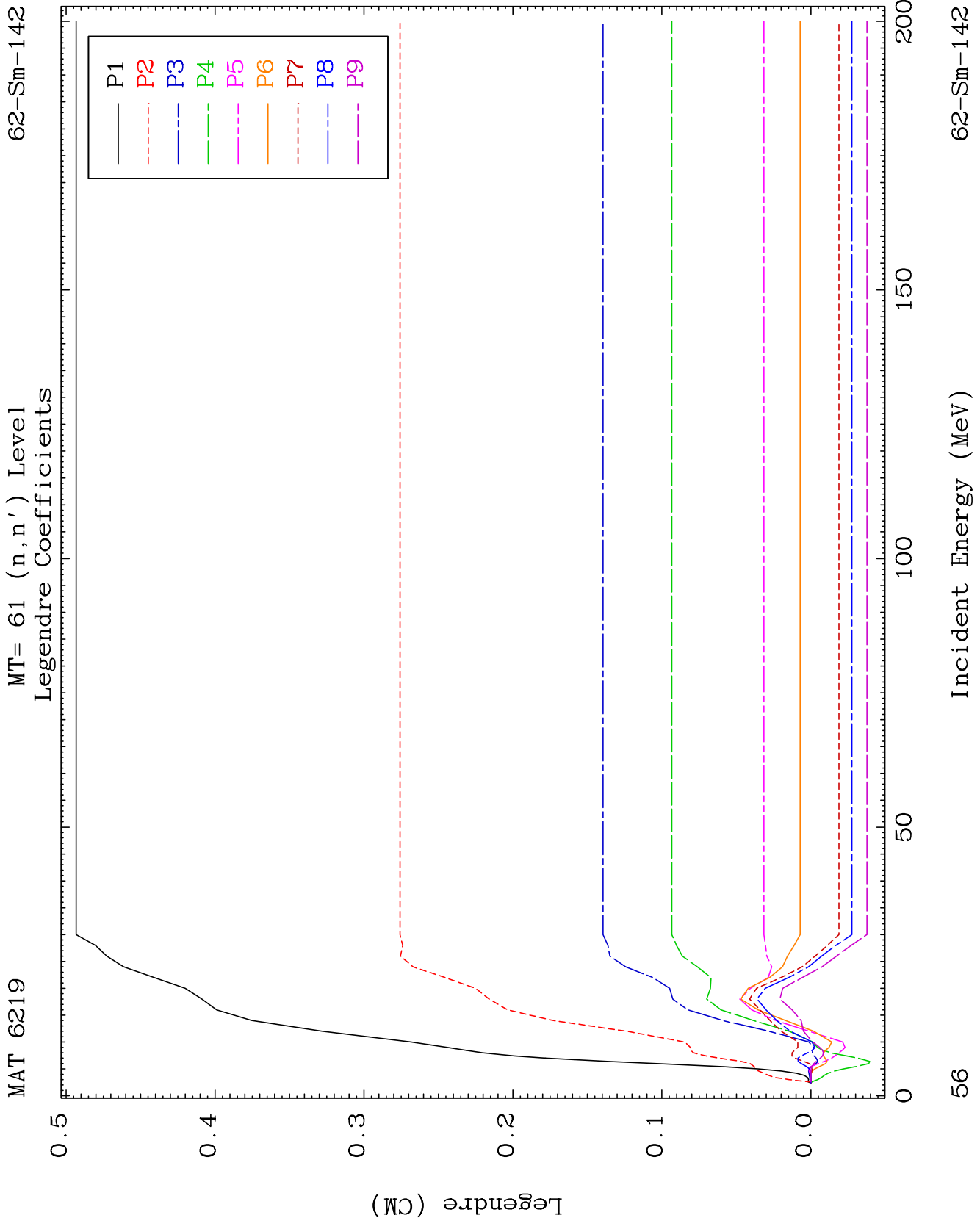
62-Sm-142

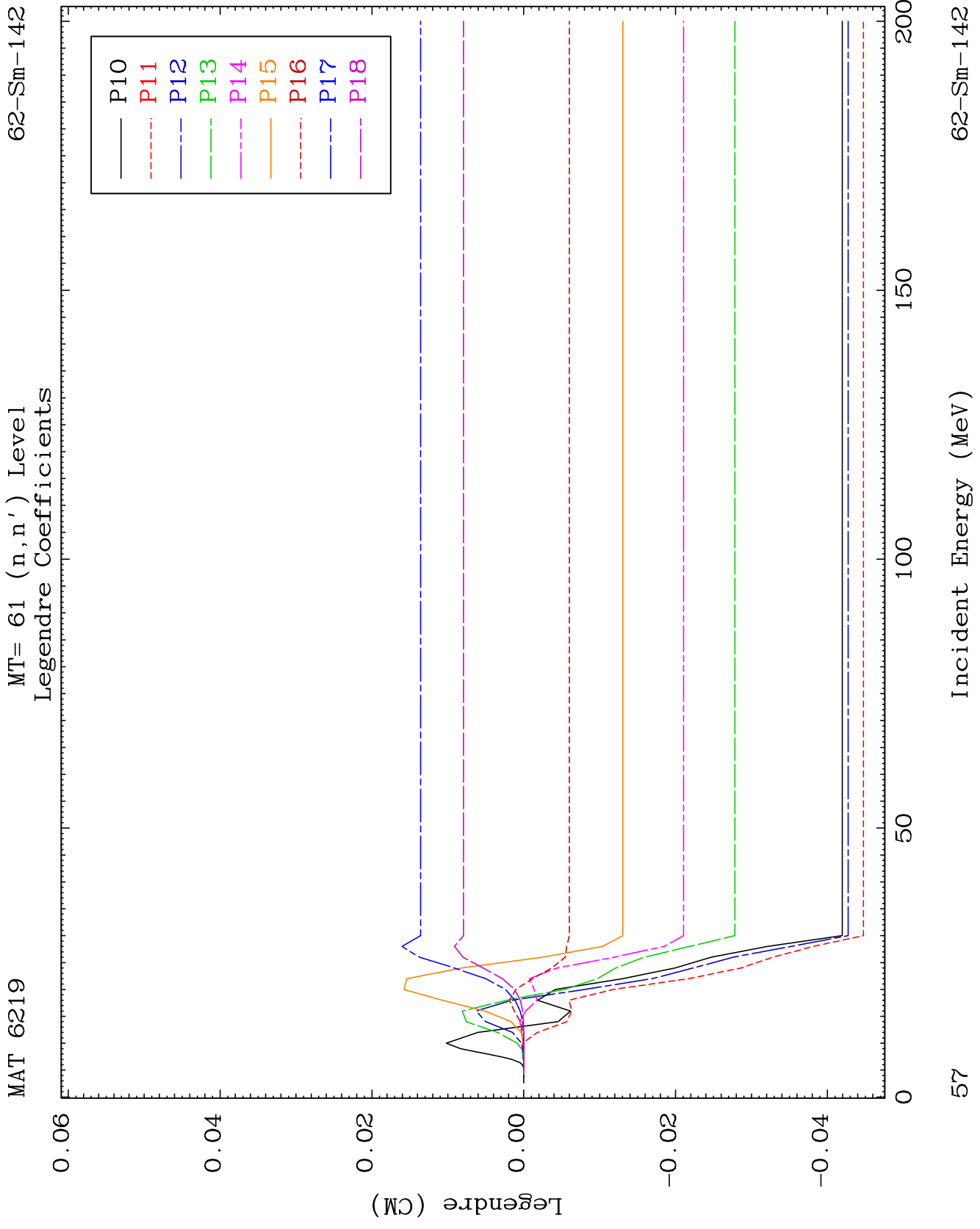








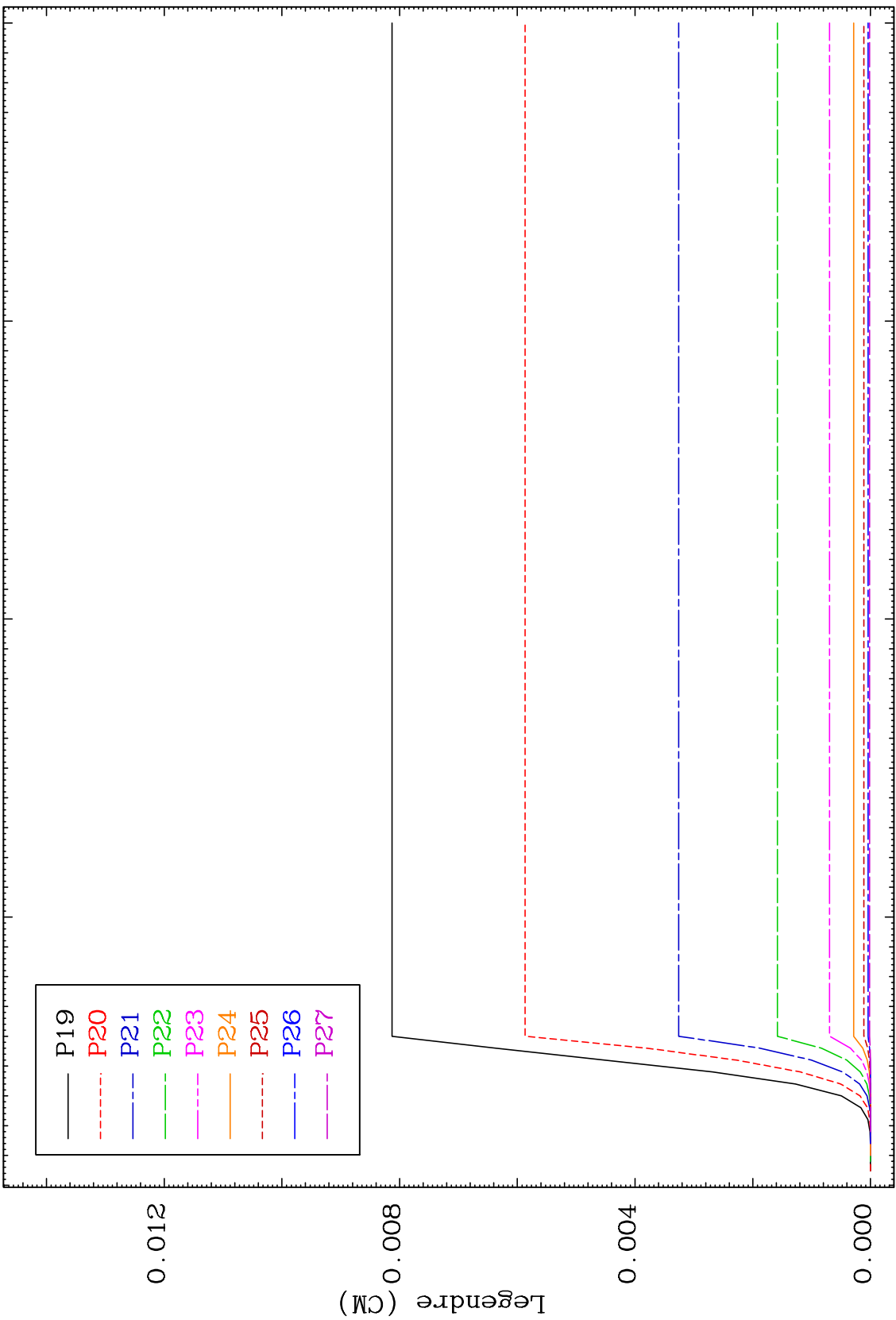




MAT 6219

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

62-Sm-142



58

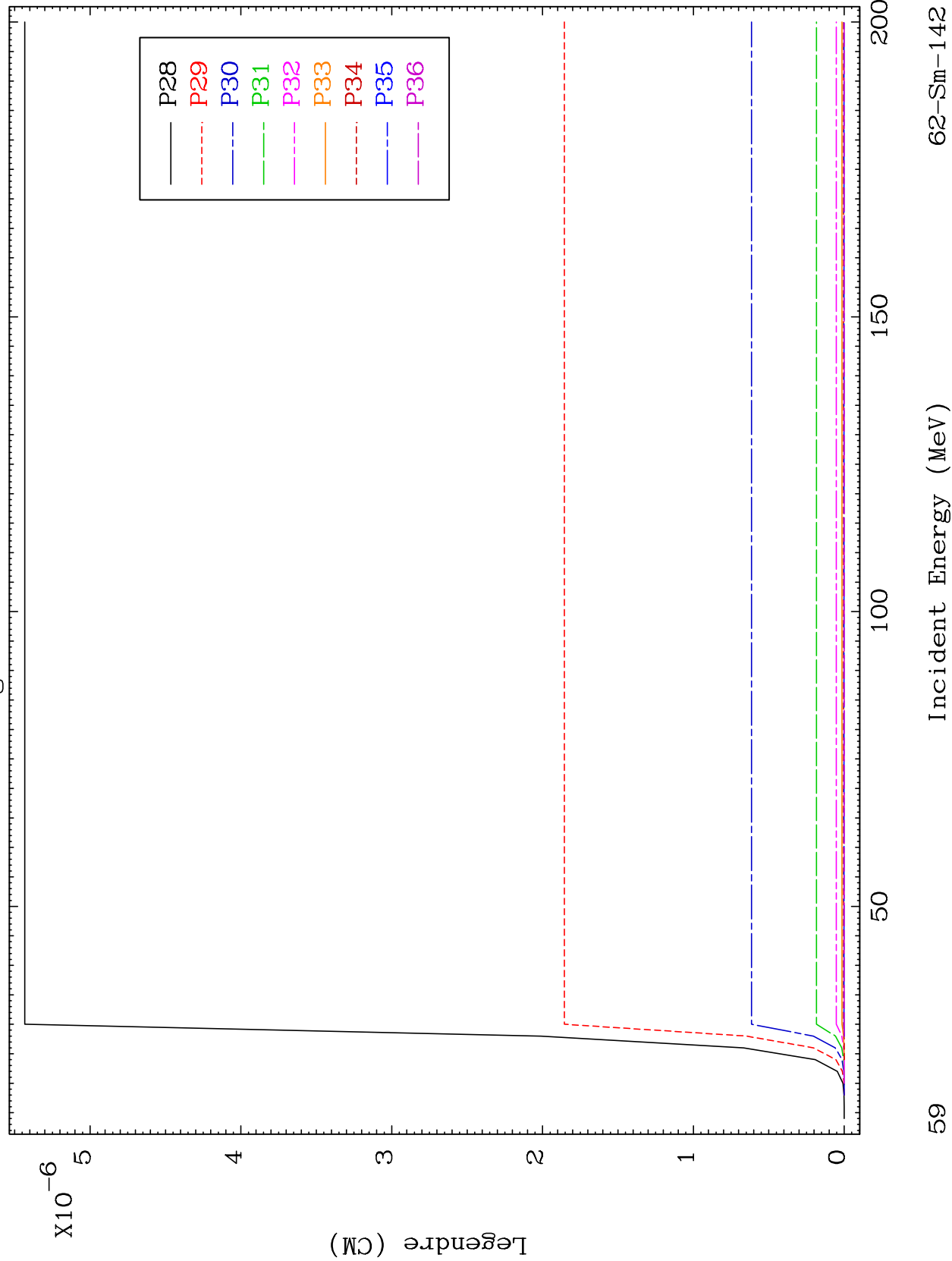
Incident Energy (MeV)

62-Sm-142

MAT 6219

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

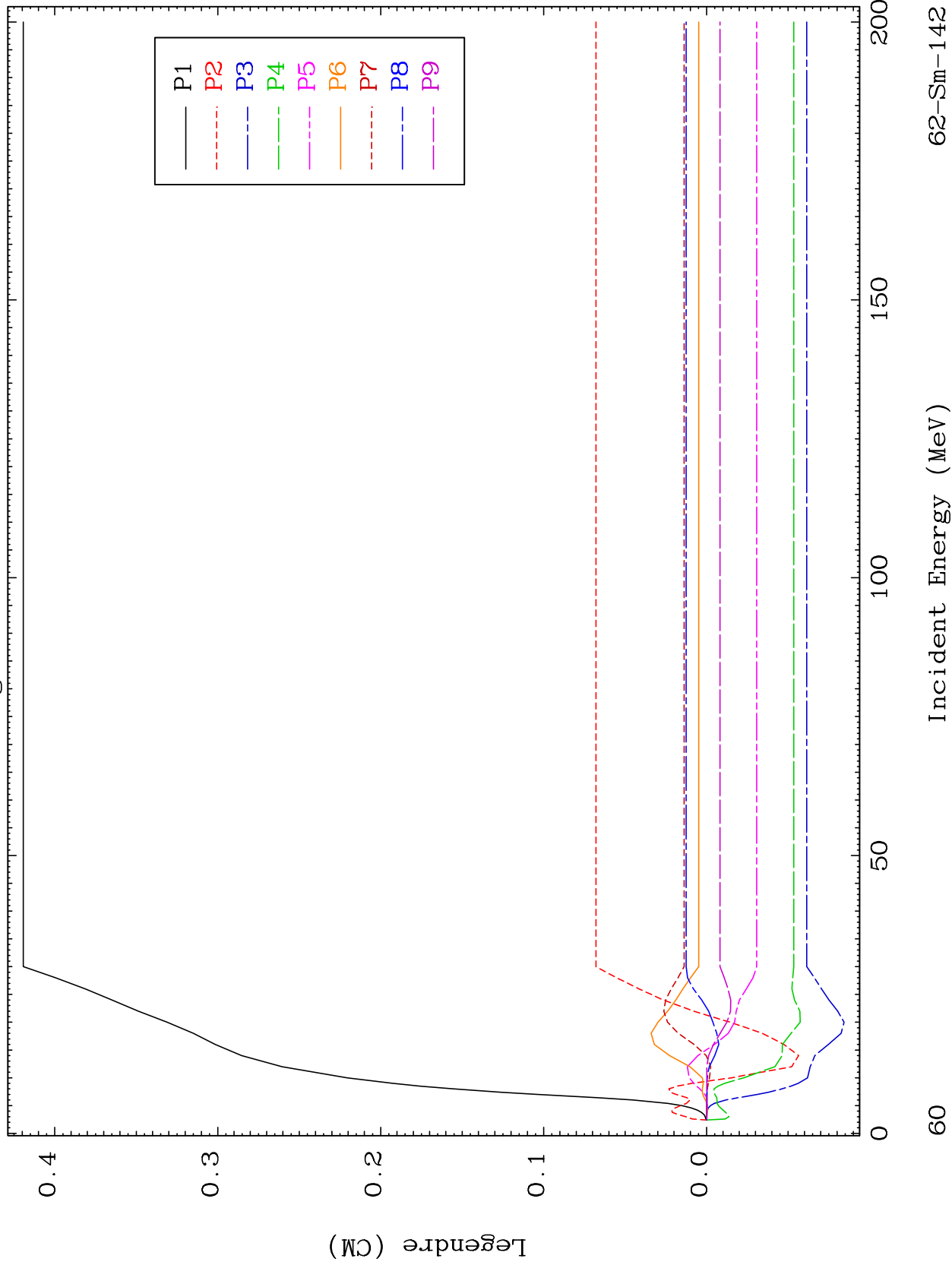
62-Sm-142



MAT 6219

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

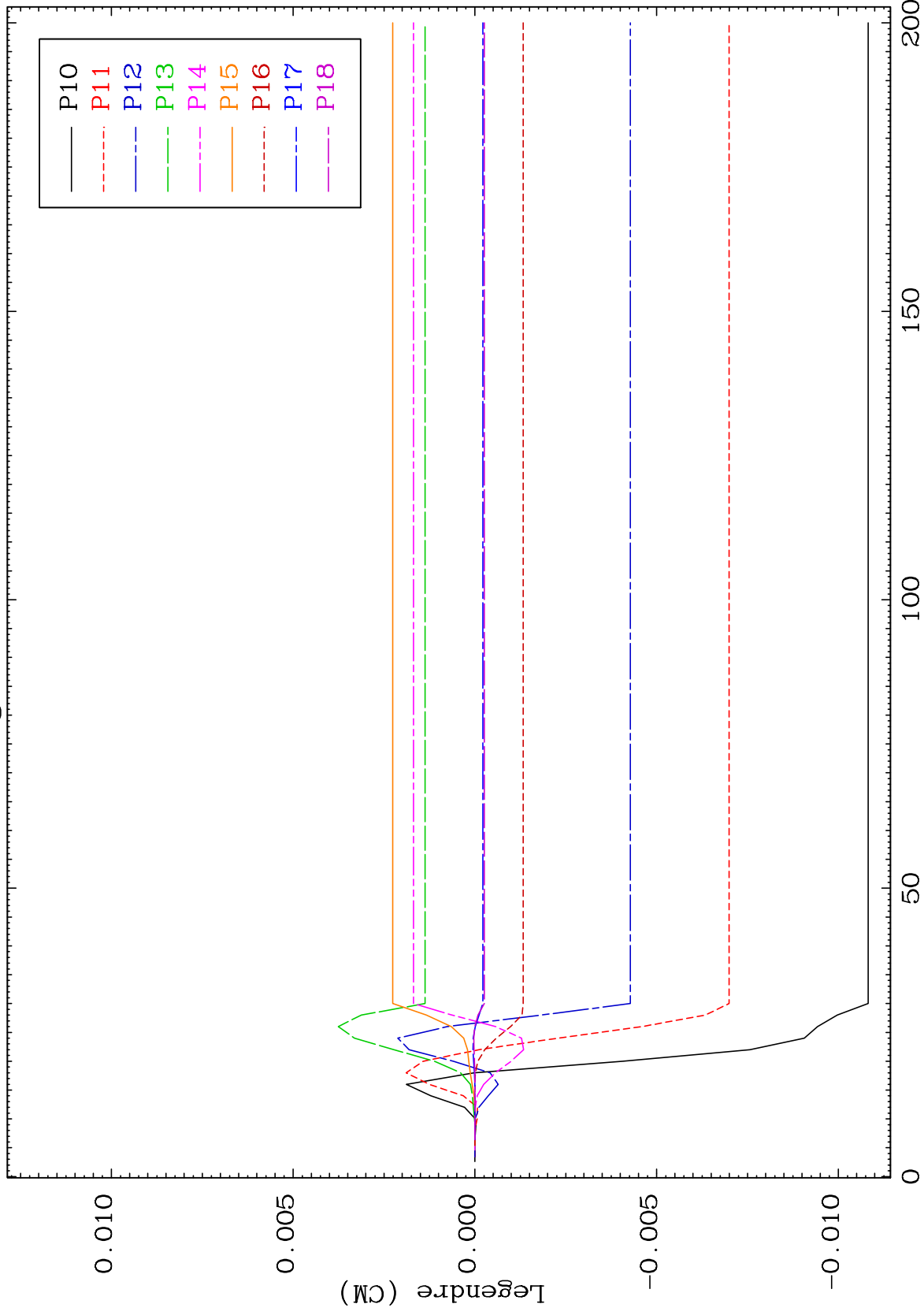
62-Sm-142



MAT 6219

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

62-Sm-142



61

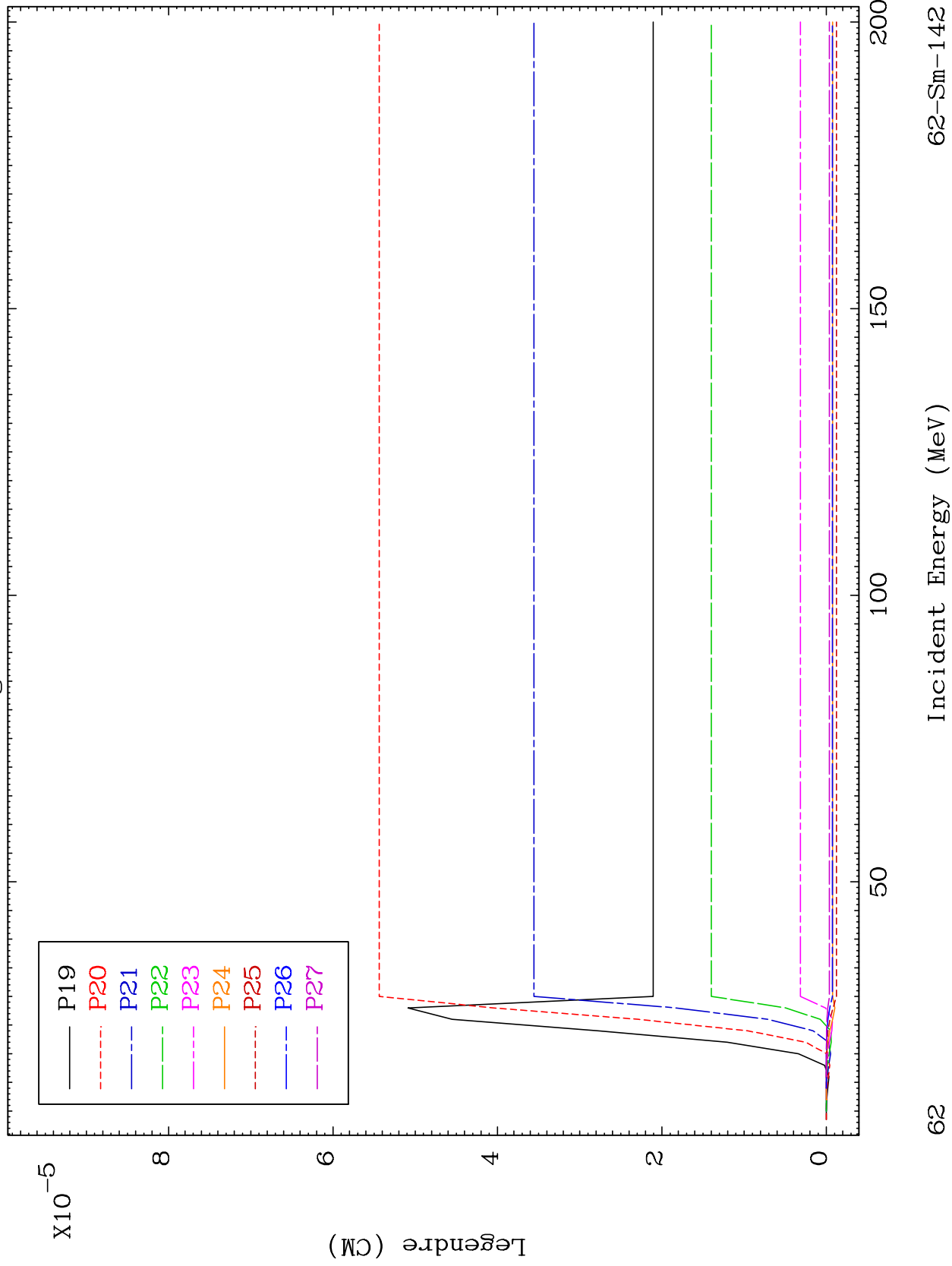
Incident Energy (MeV)

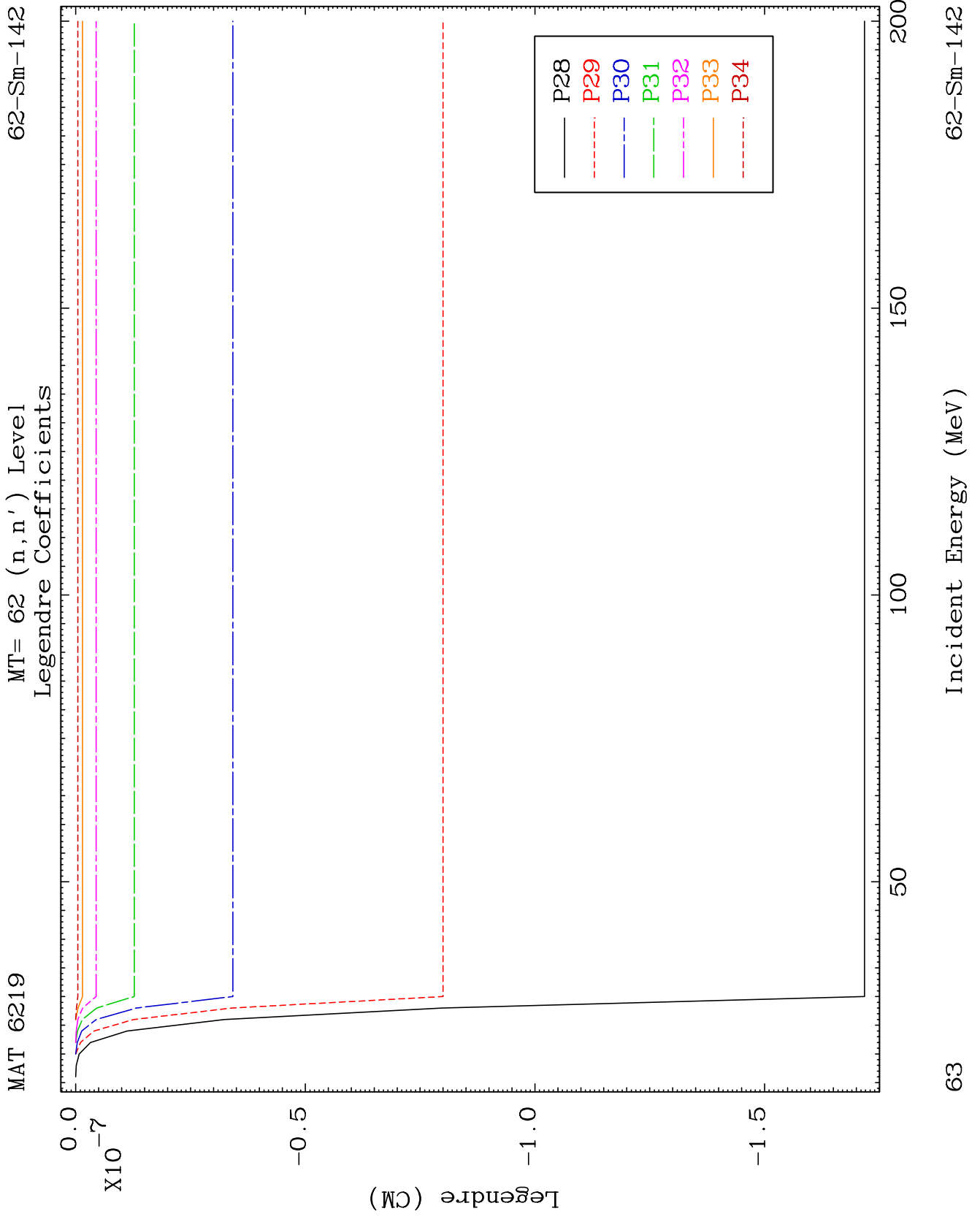
62-Sm-142

MAT 6219

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

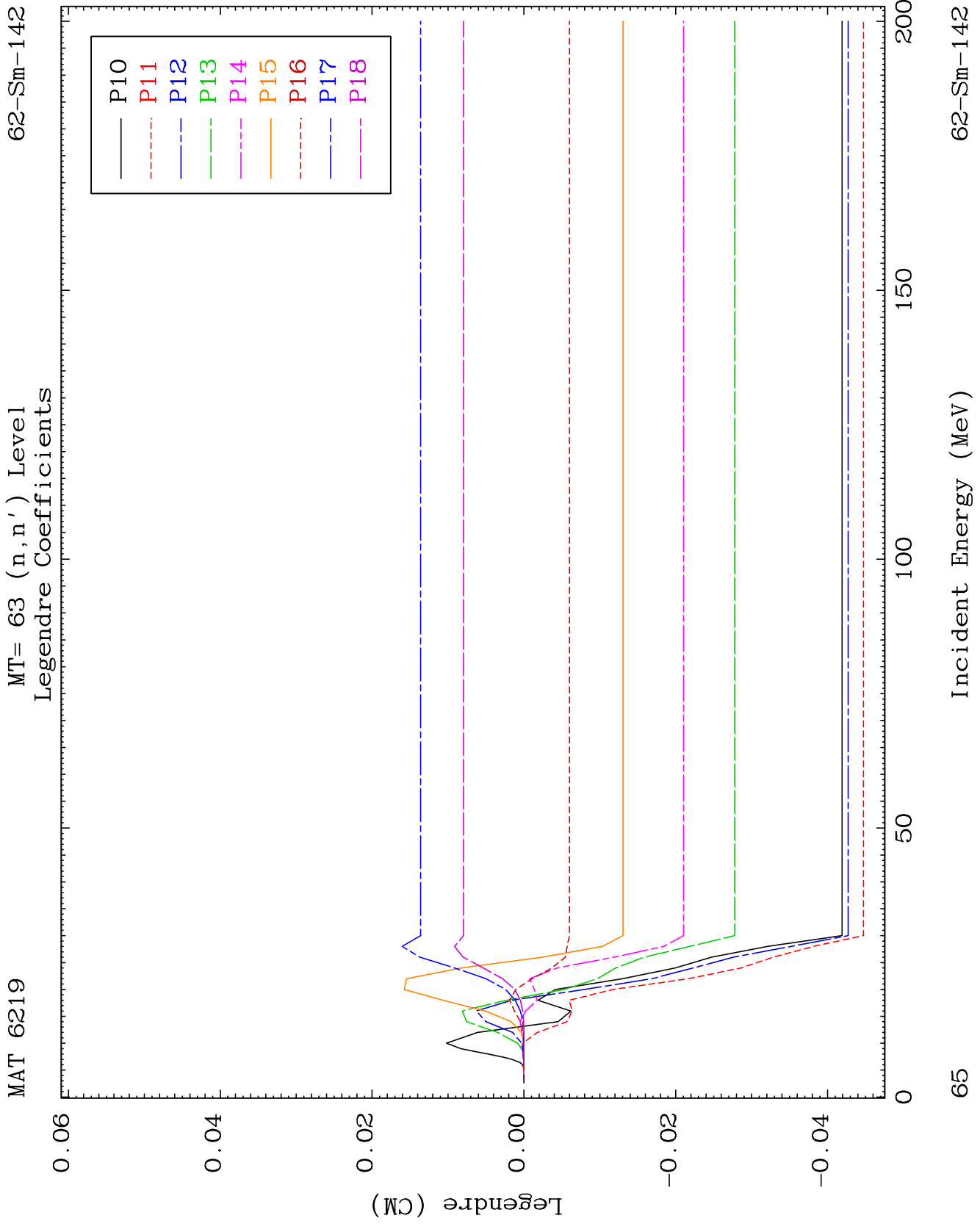
62-Sm-142

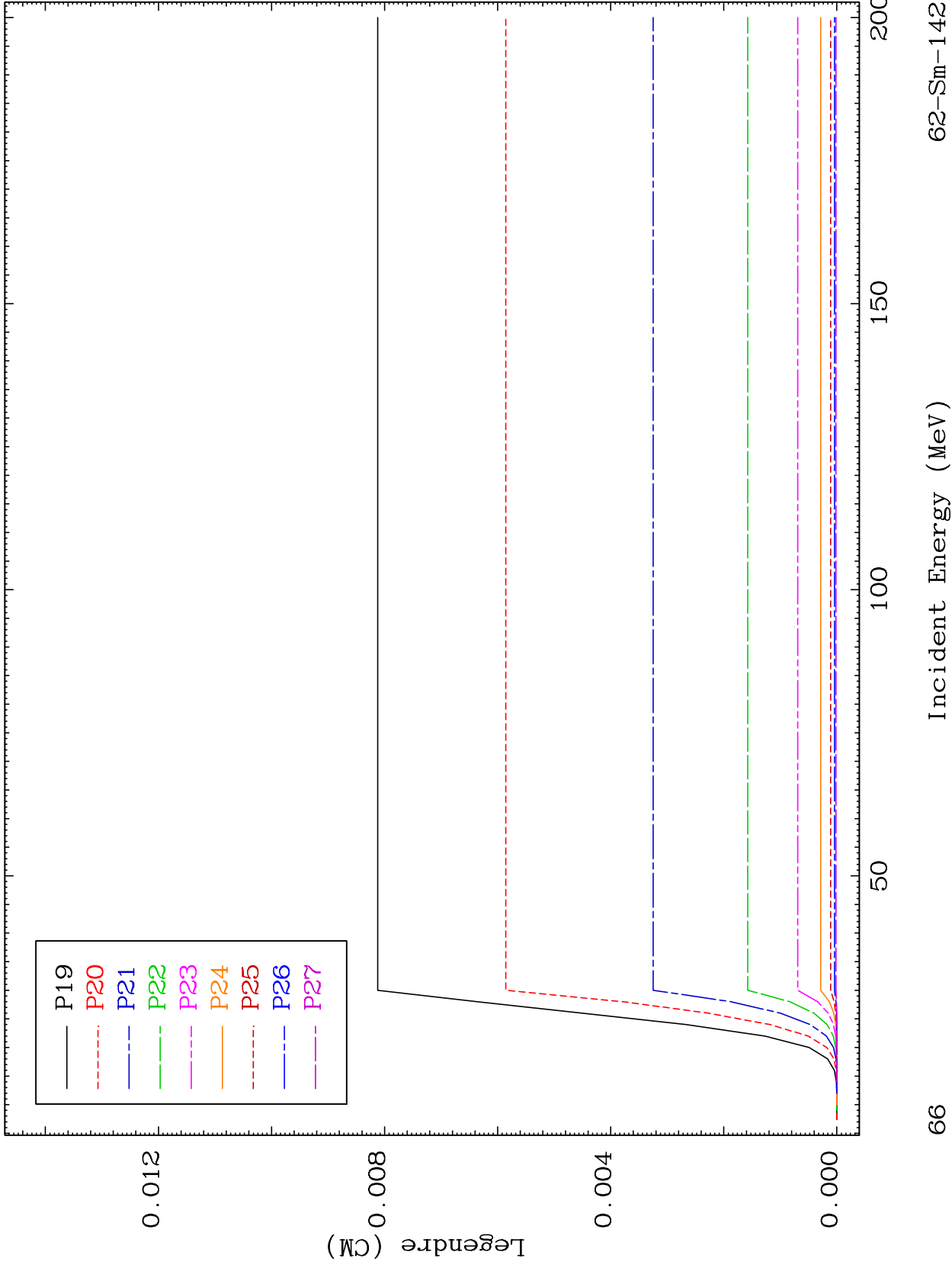








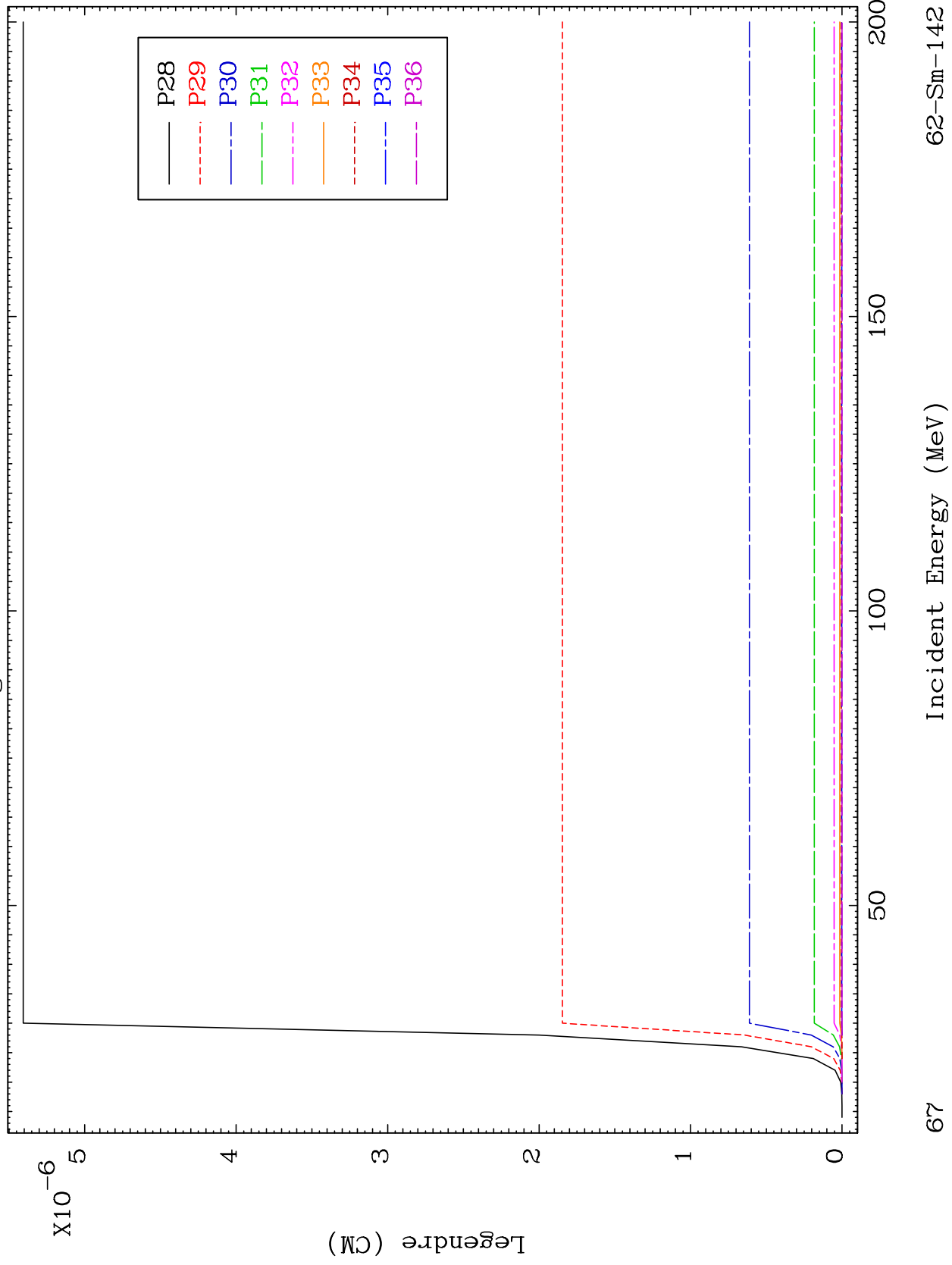


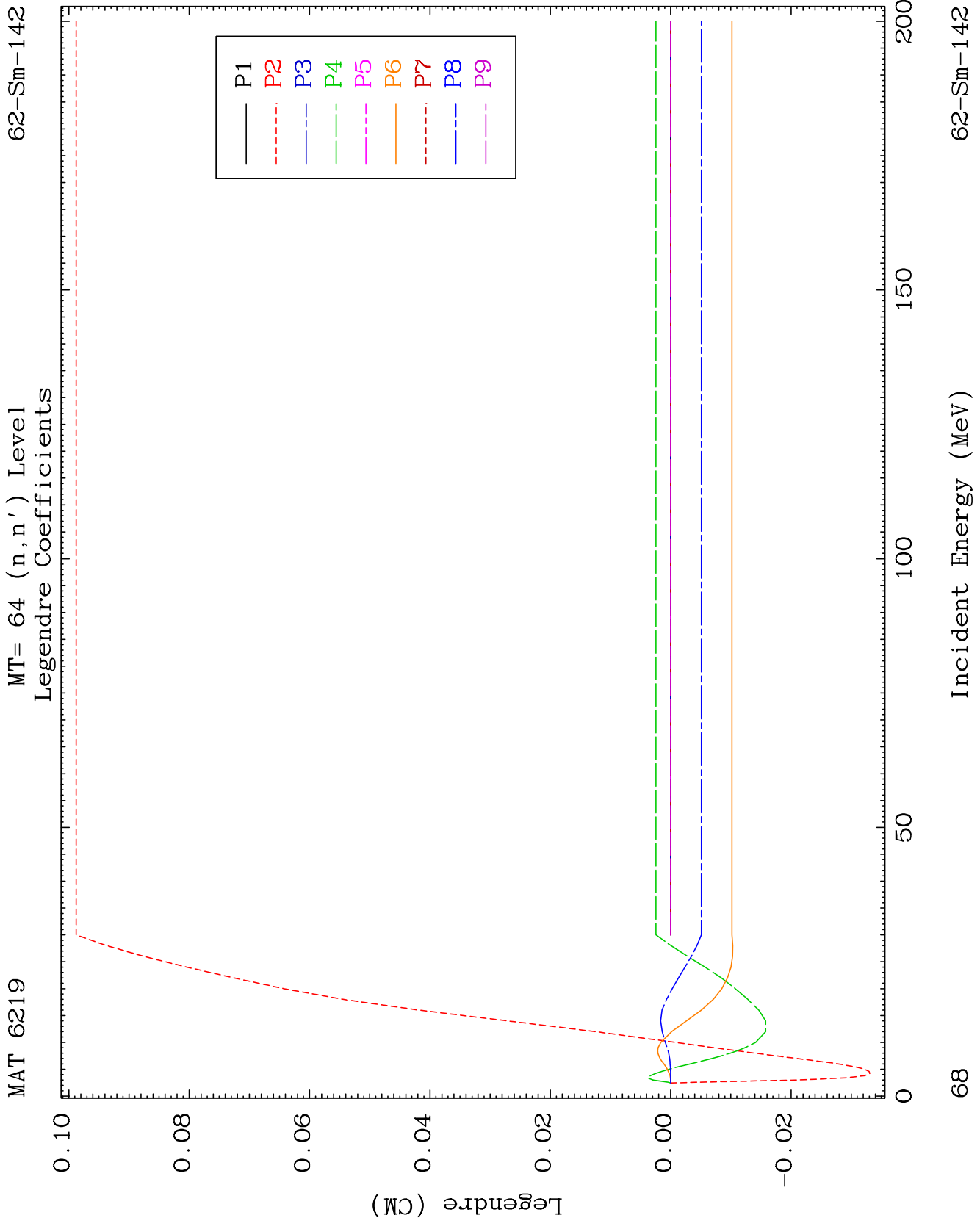


MAT 6219

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

62-Sm-142

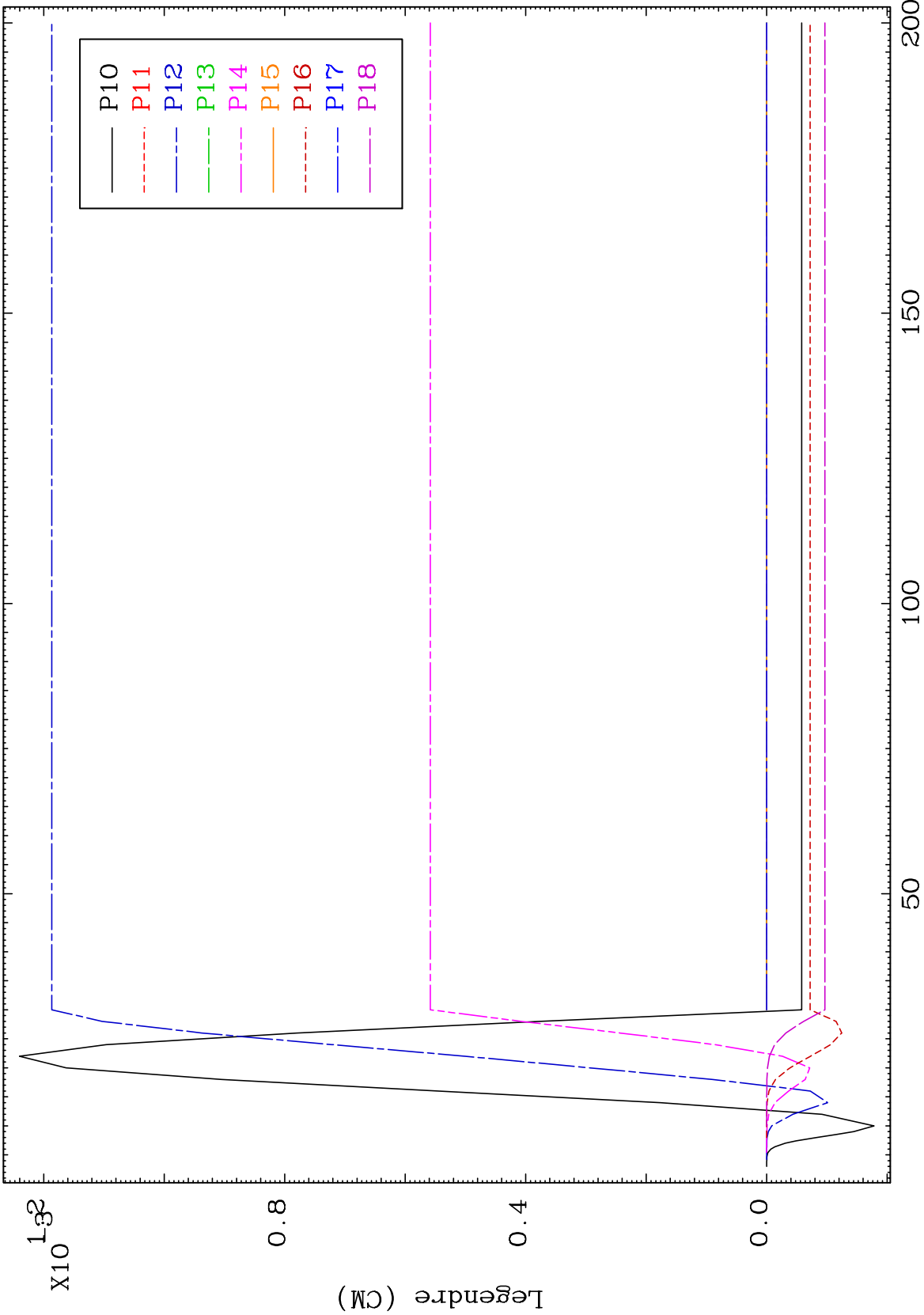




MAT 6219

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

62-Sm-142



69

Incident Energy (MeV)

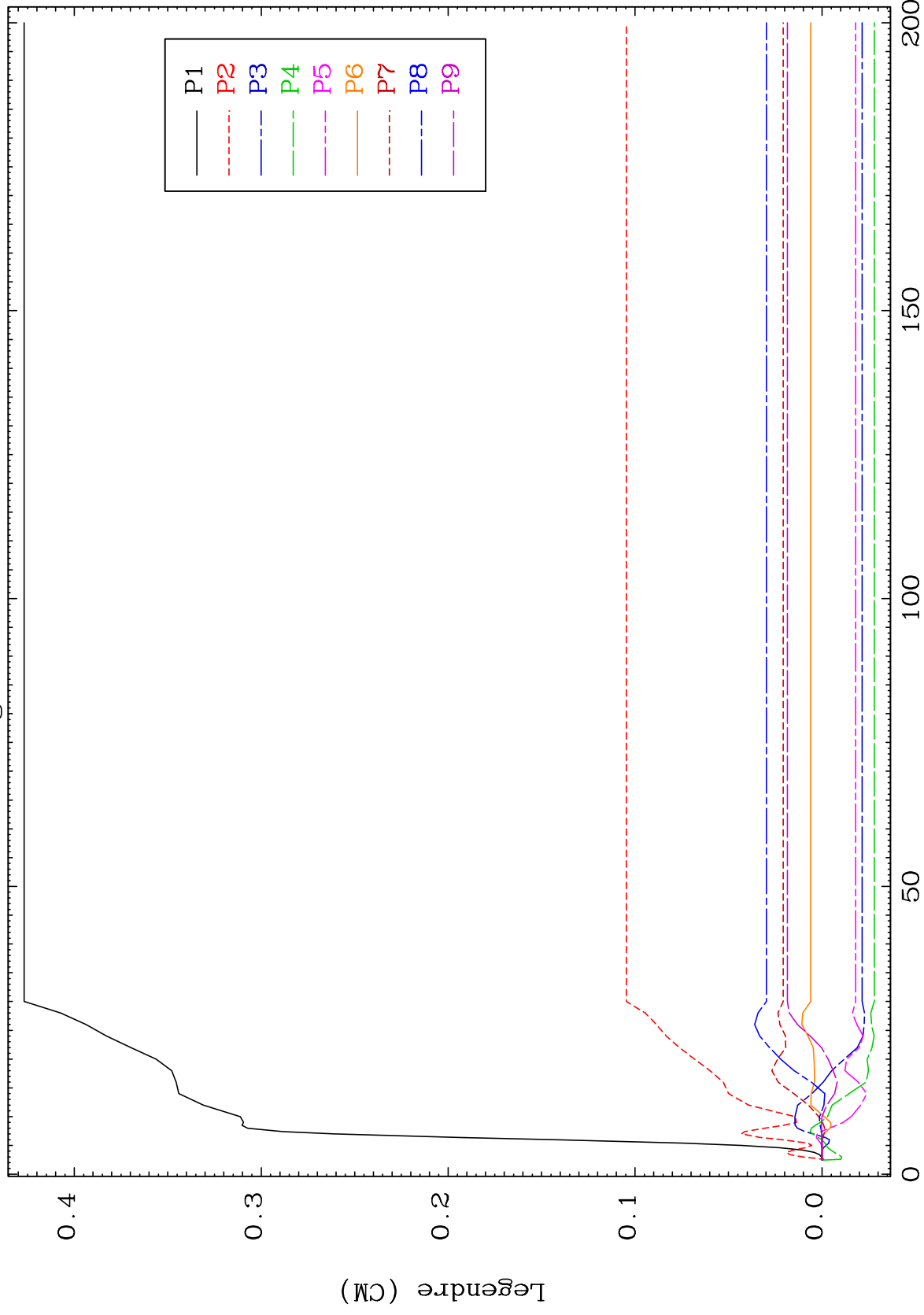
62-Sm-142



MAT 6219

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

62-Sm-142



71

Incident Energy (MeV)

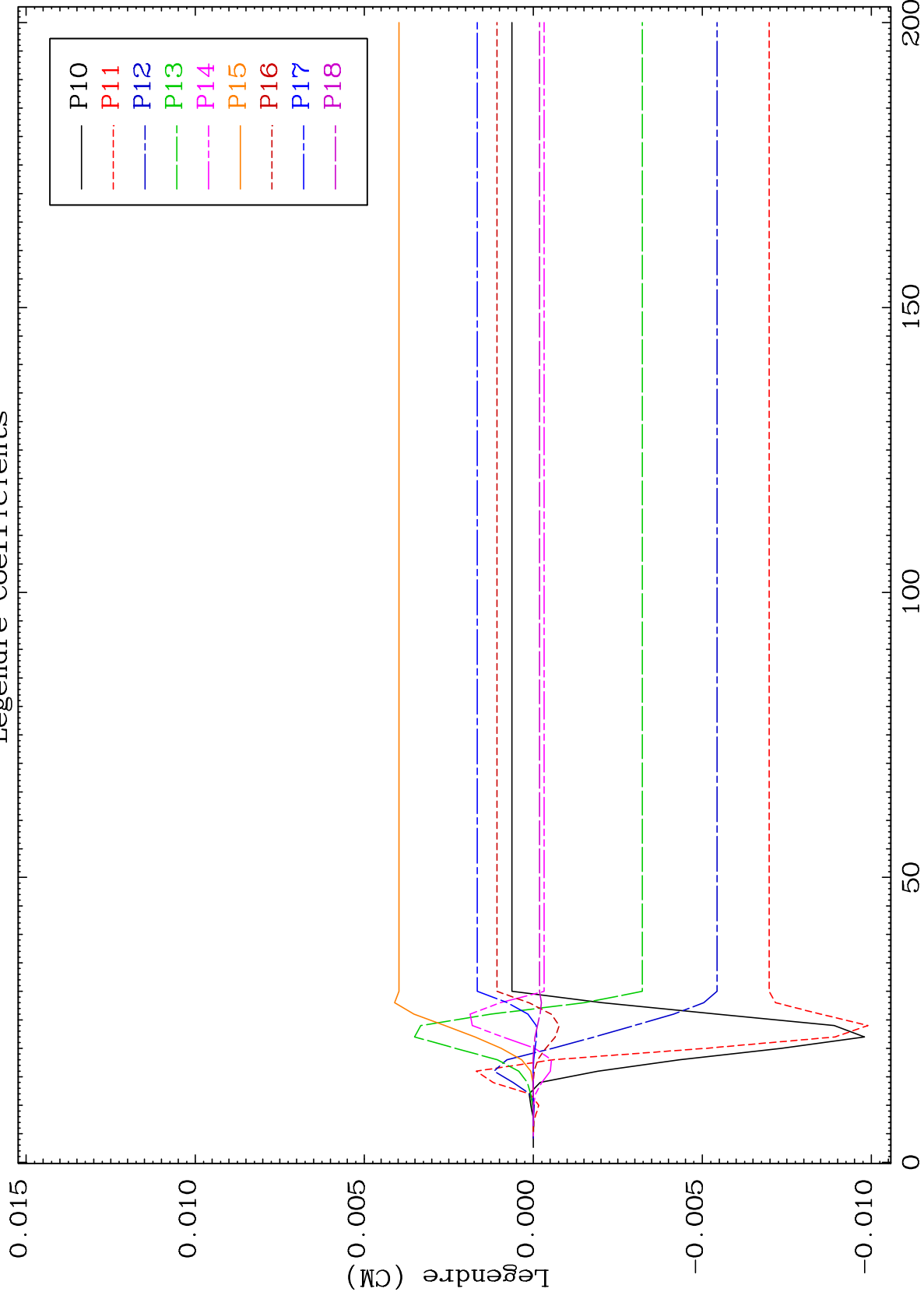
62-Sm-142



MAT 6219

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

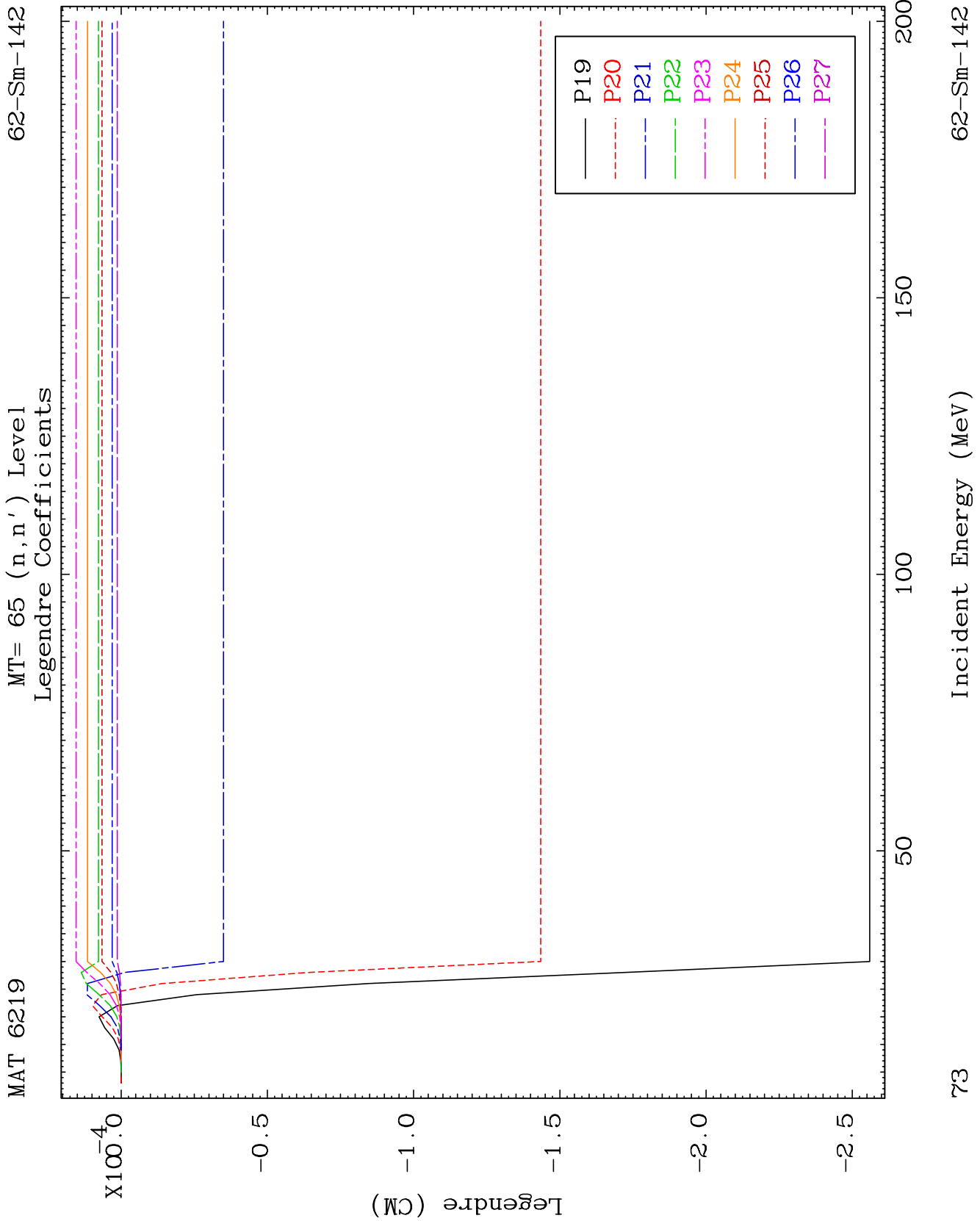
62-Sm-142



72

Incident Energy (MeV)

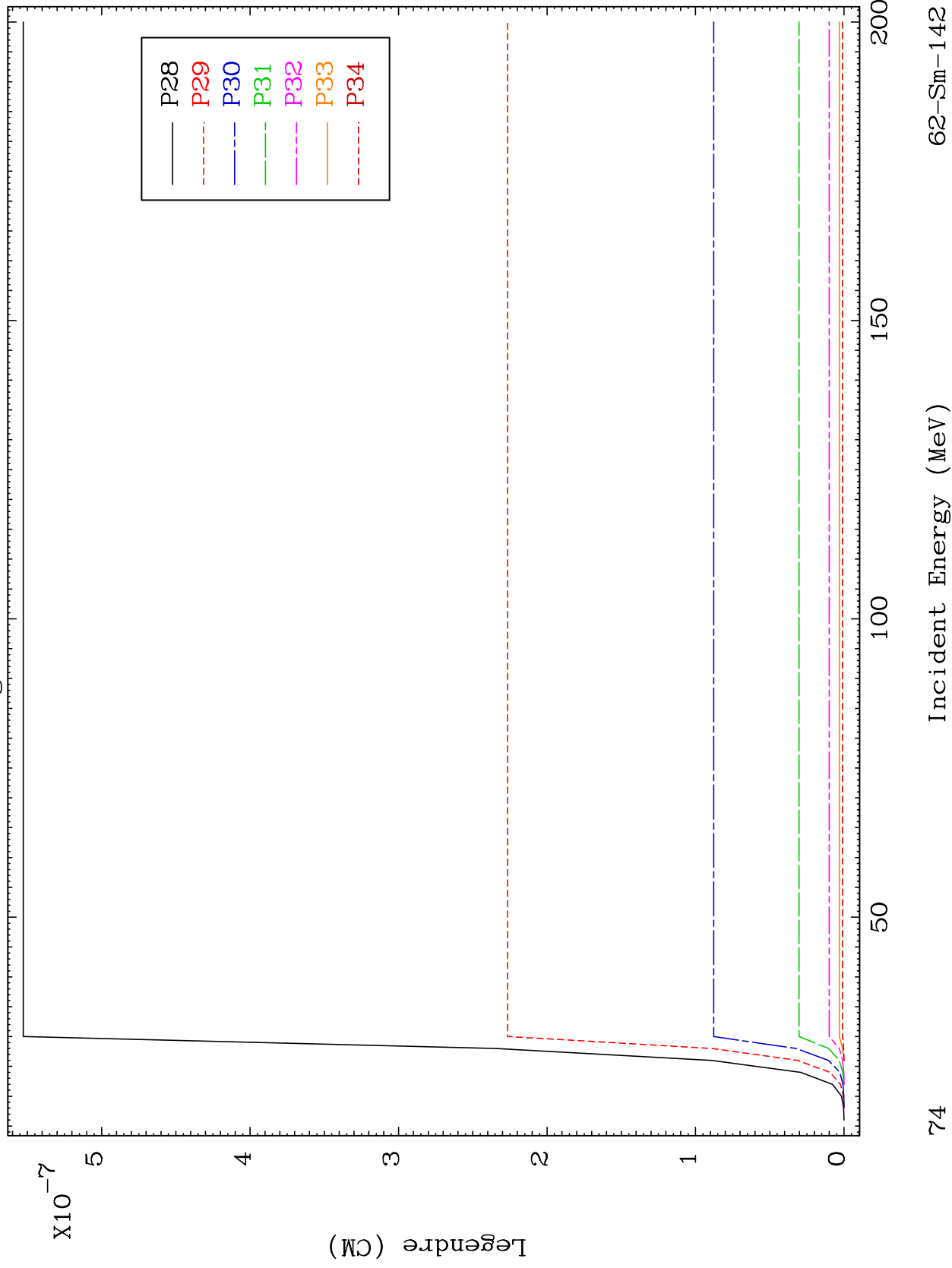
62-Sm-142

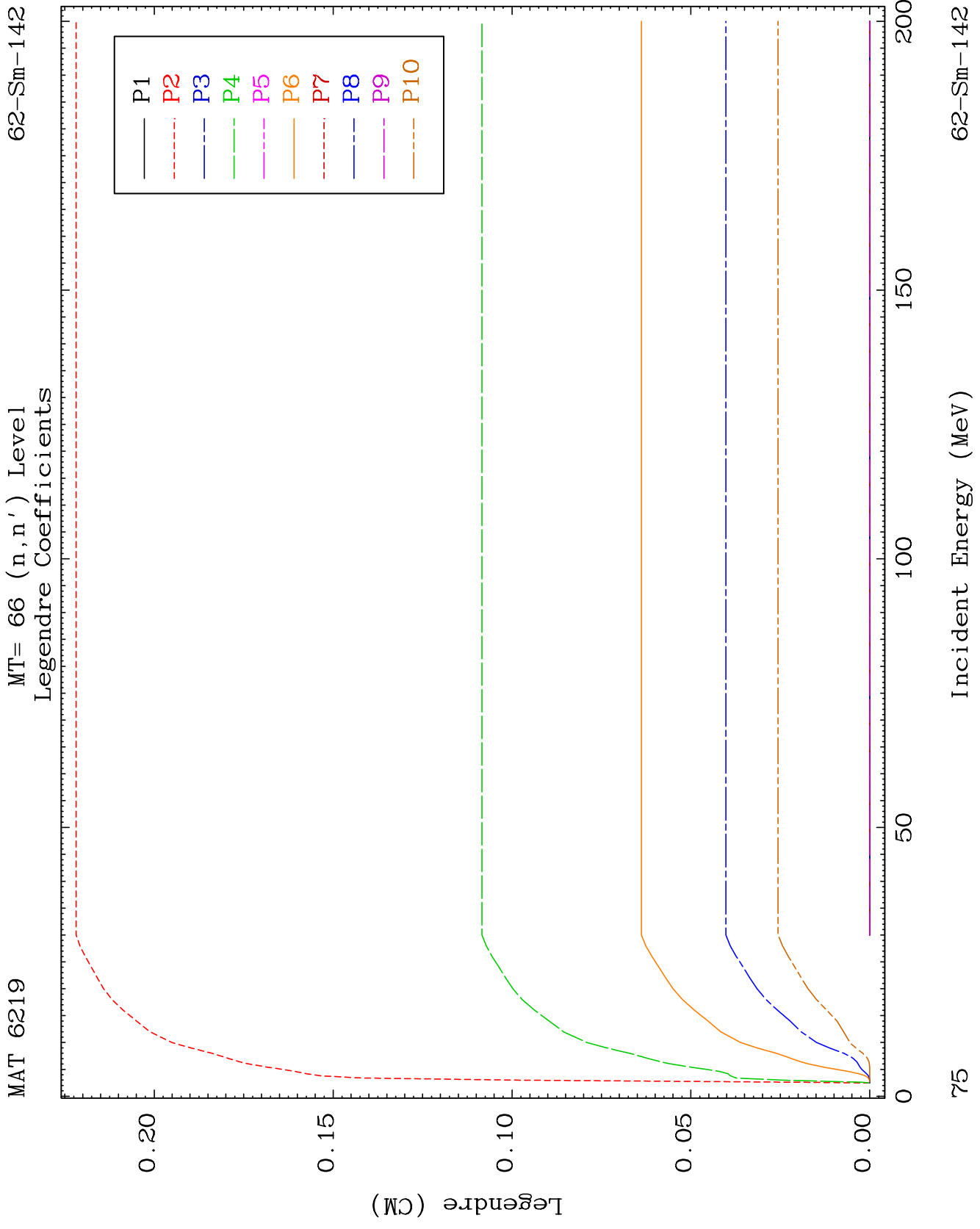


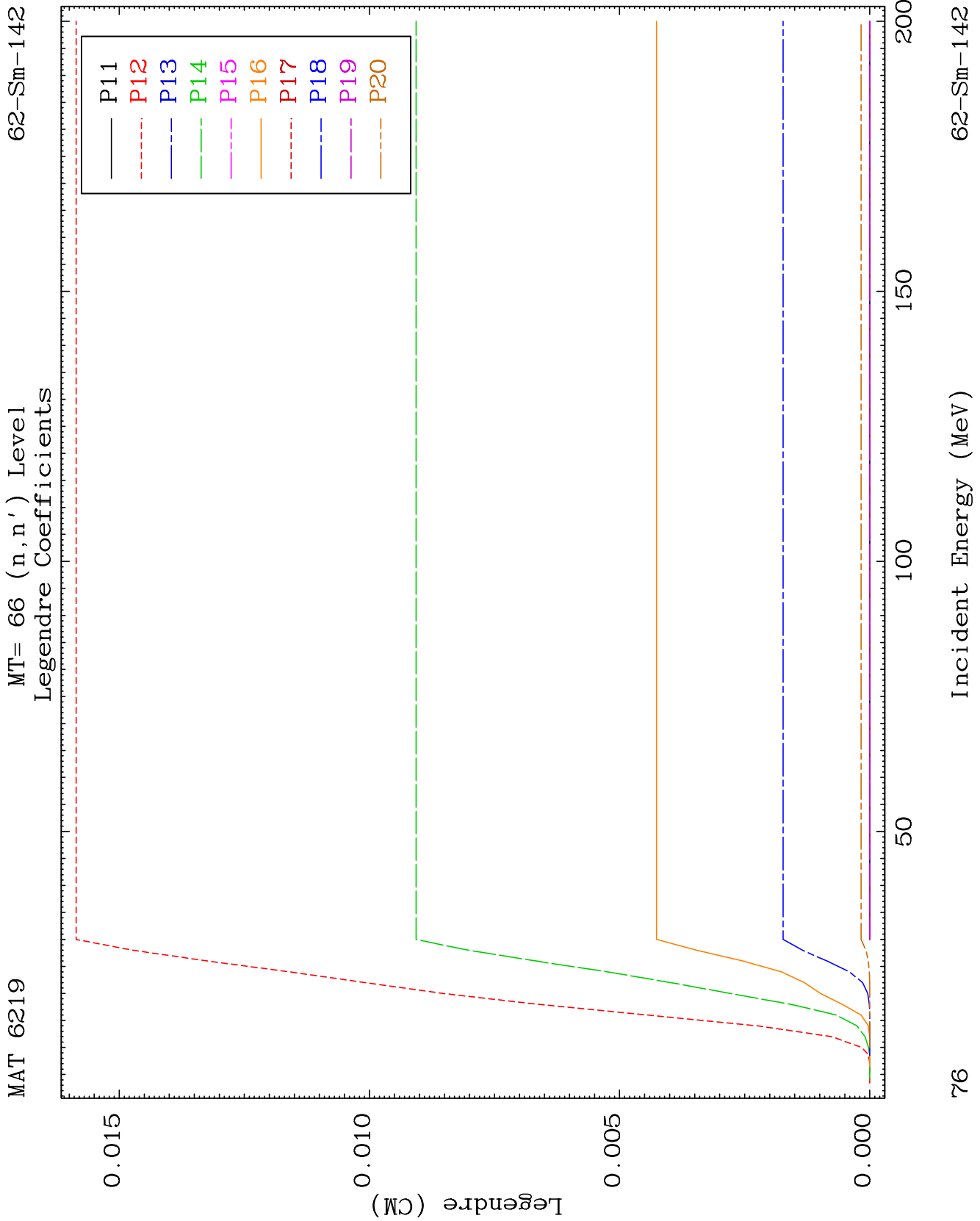
MAT 6219

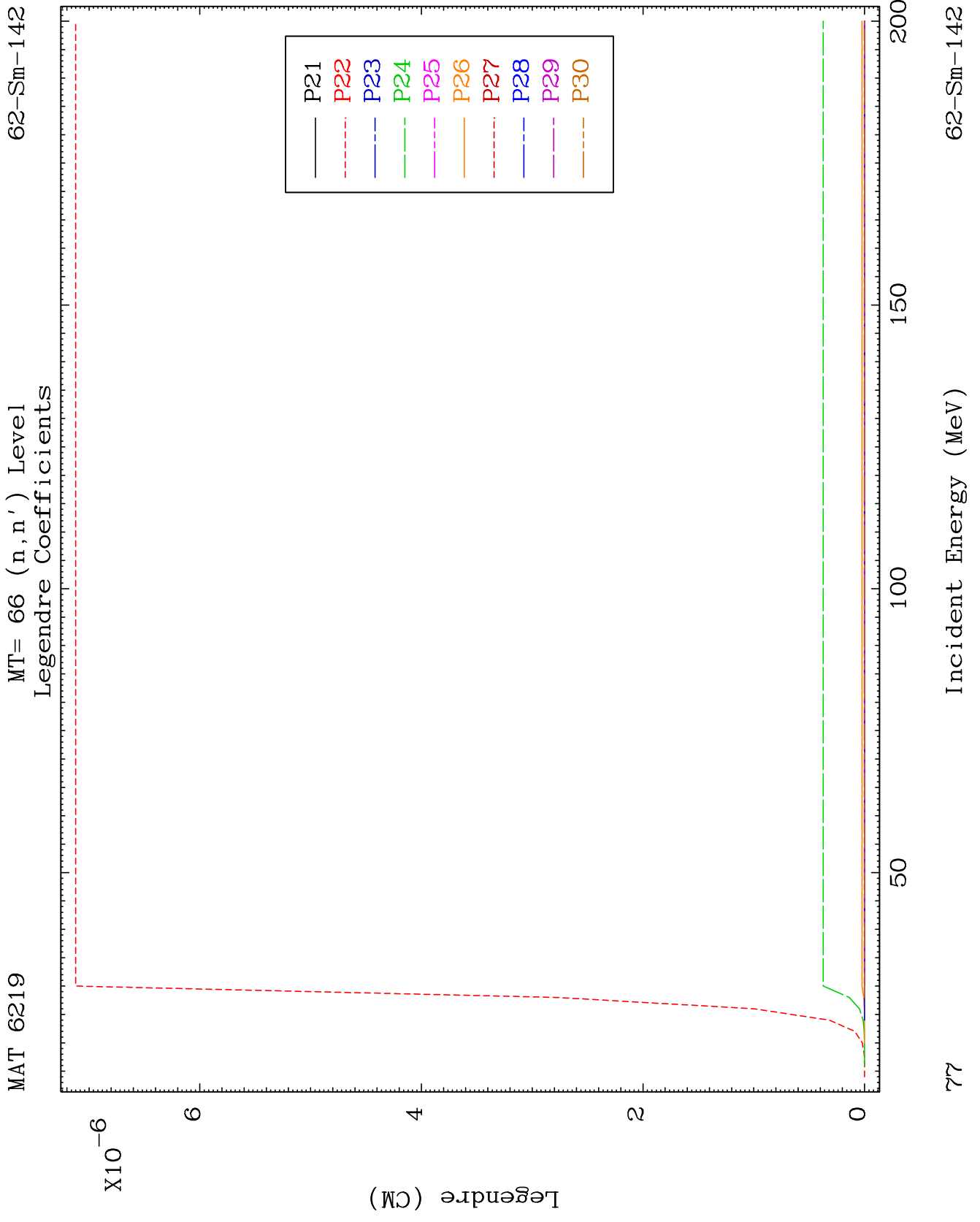
MT= 65 (n,n') Level  
Legendre Coefficients

62-Sm-142





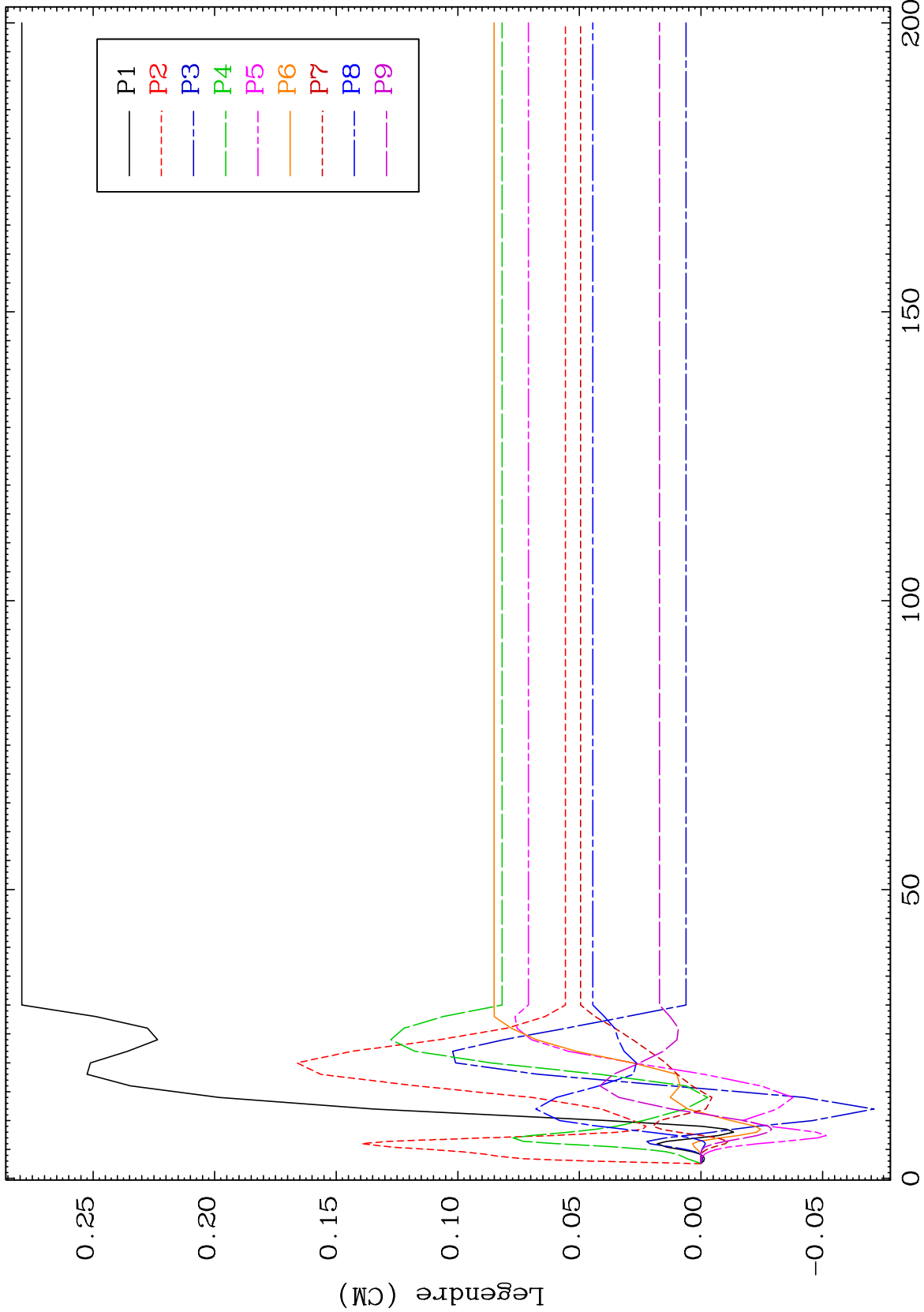




MAT 6219

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

62-Sm-142



78

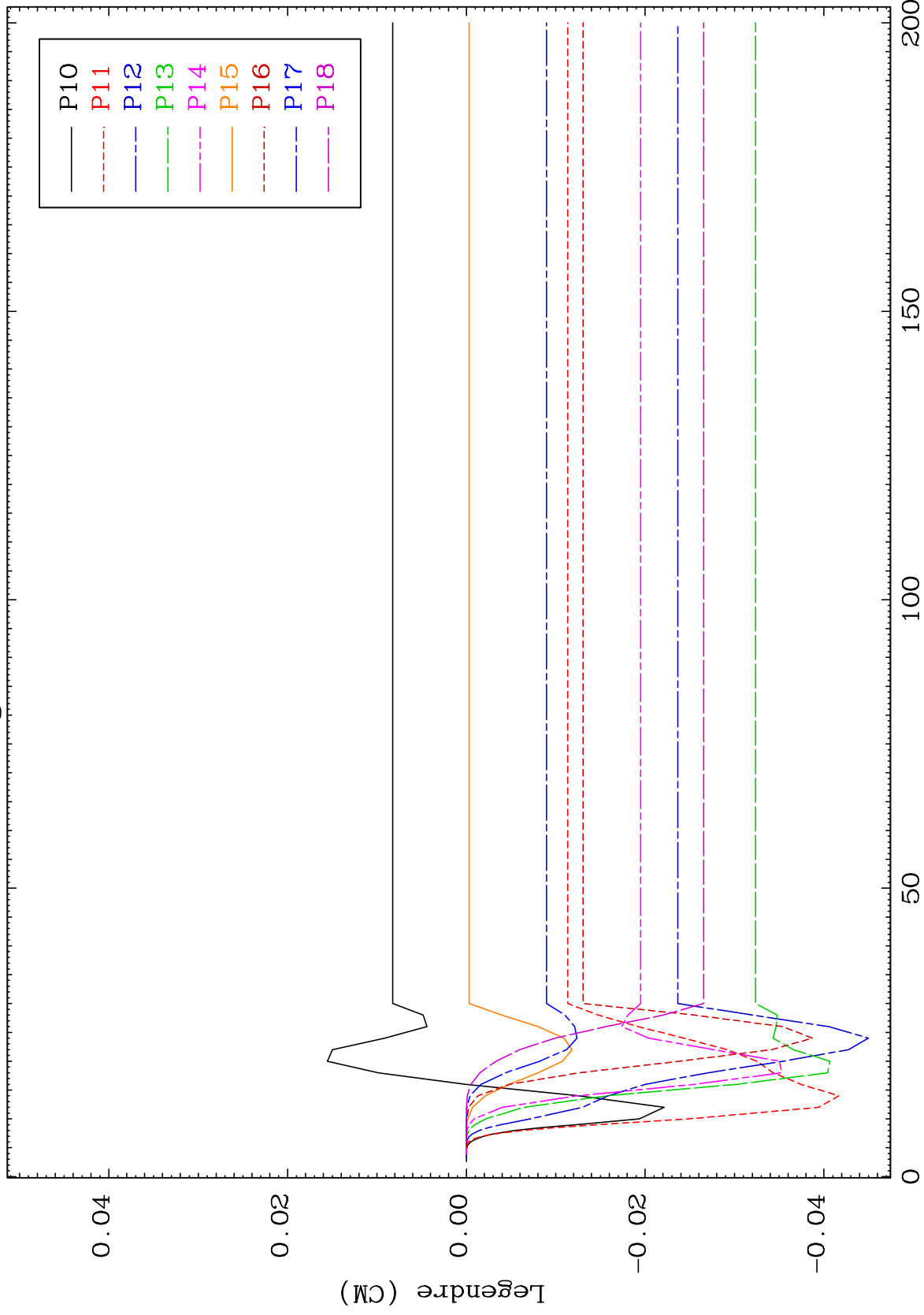
Incident Energy (MeV)

62-Sm-142

MAT 6219

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

62-Sm-142

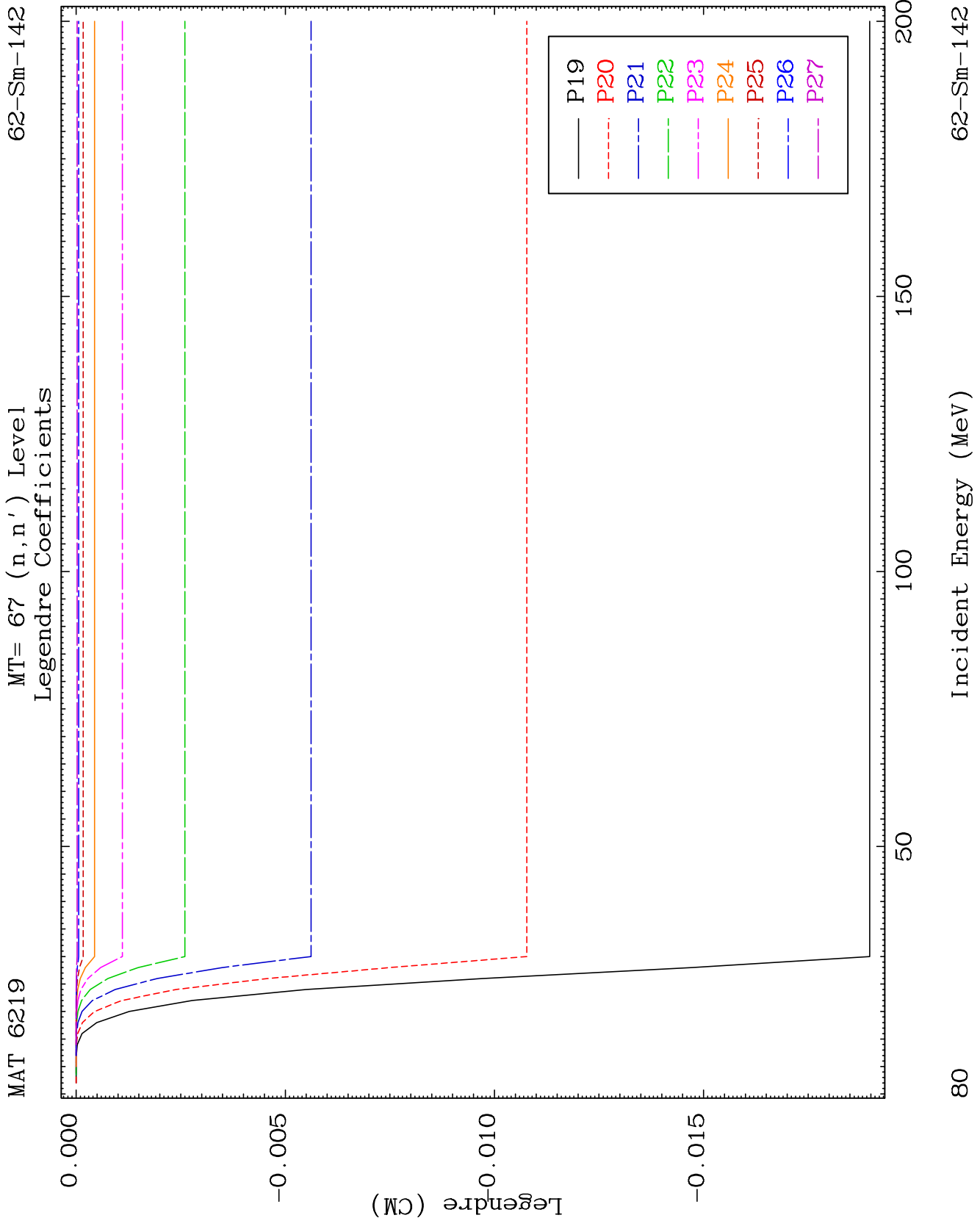


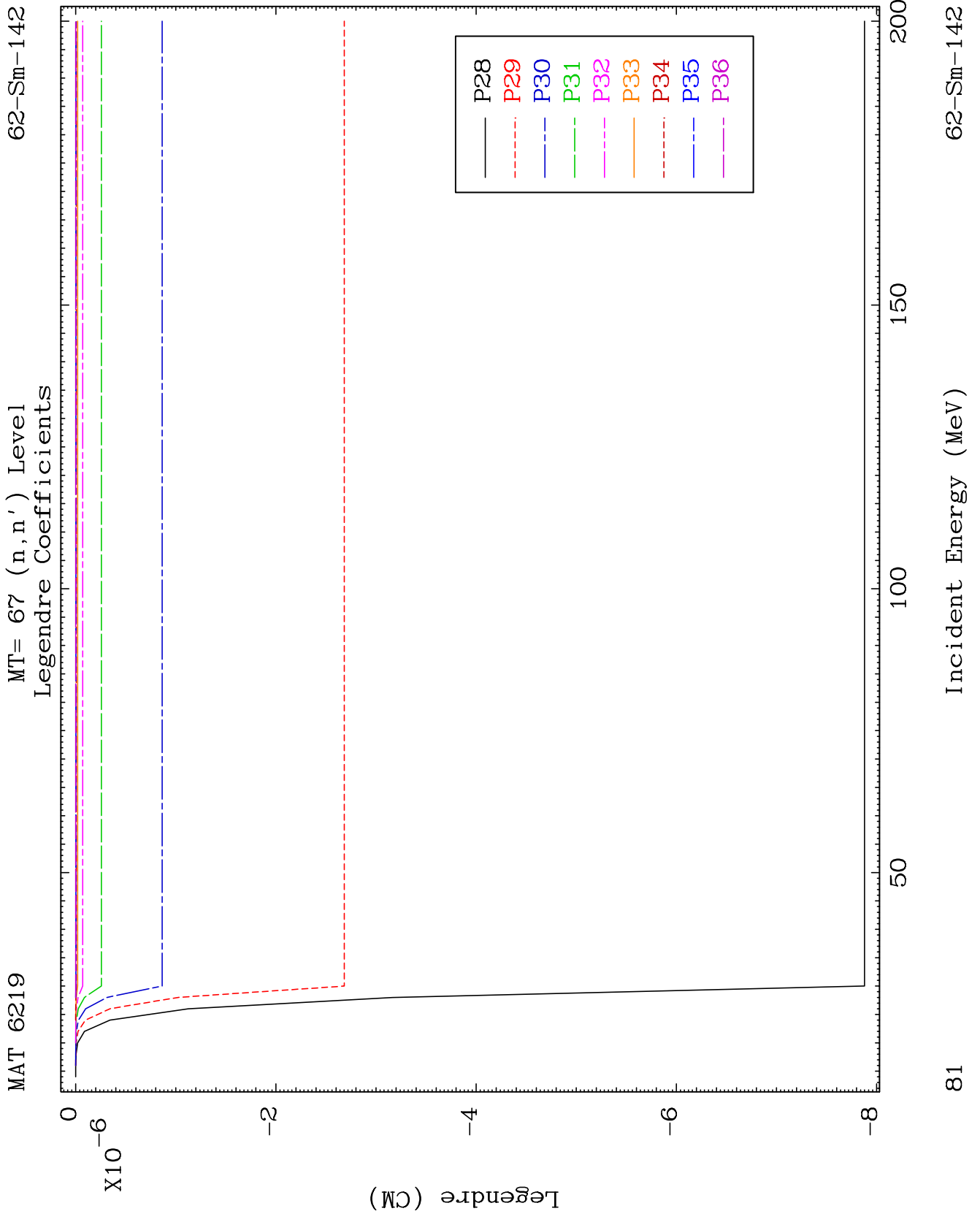
79

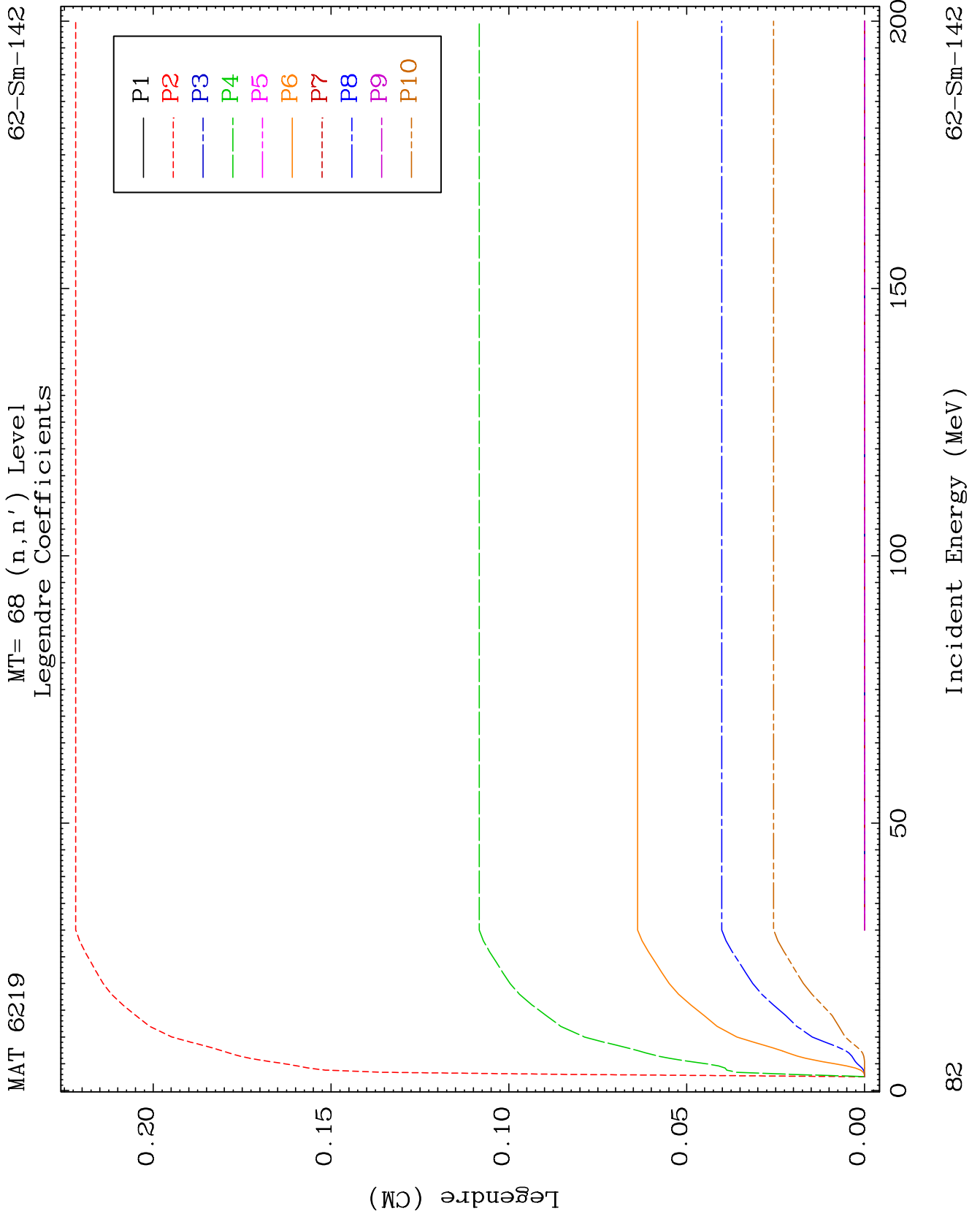
Incident Energy (MeV)

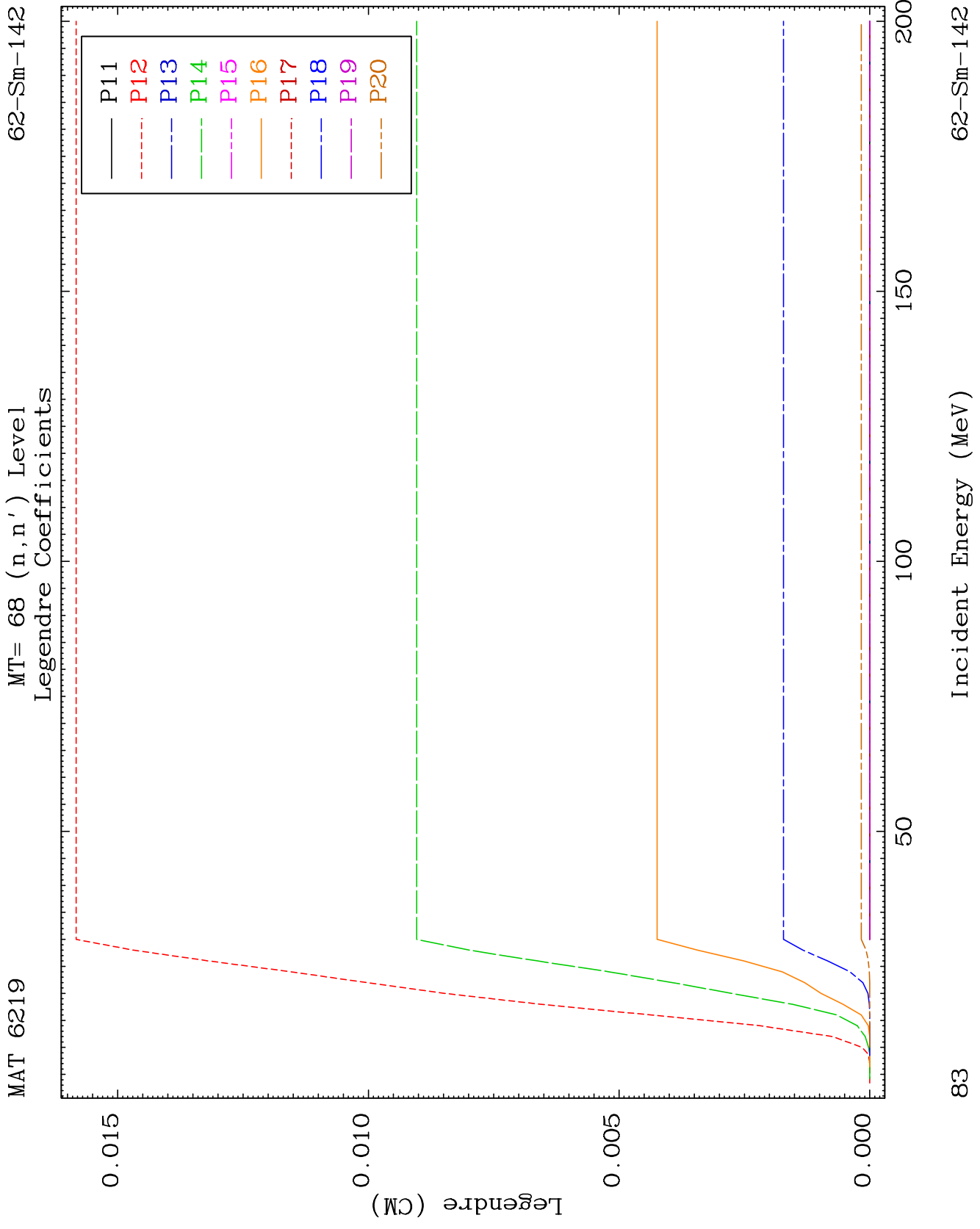
62-Sm-142

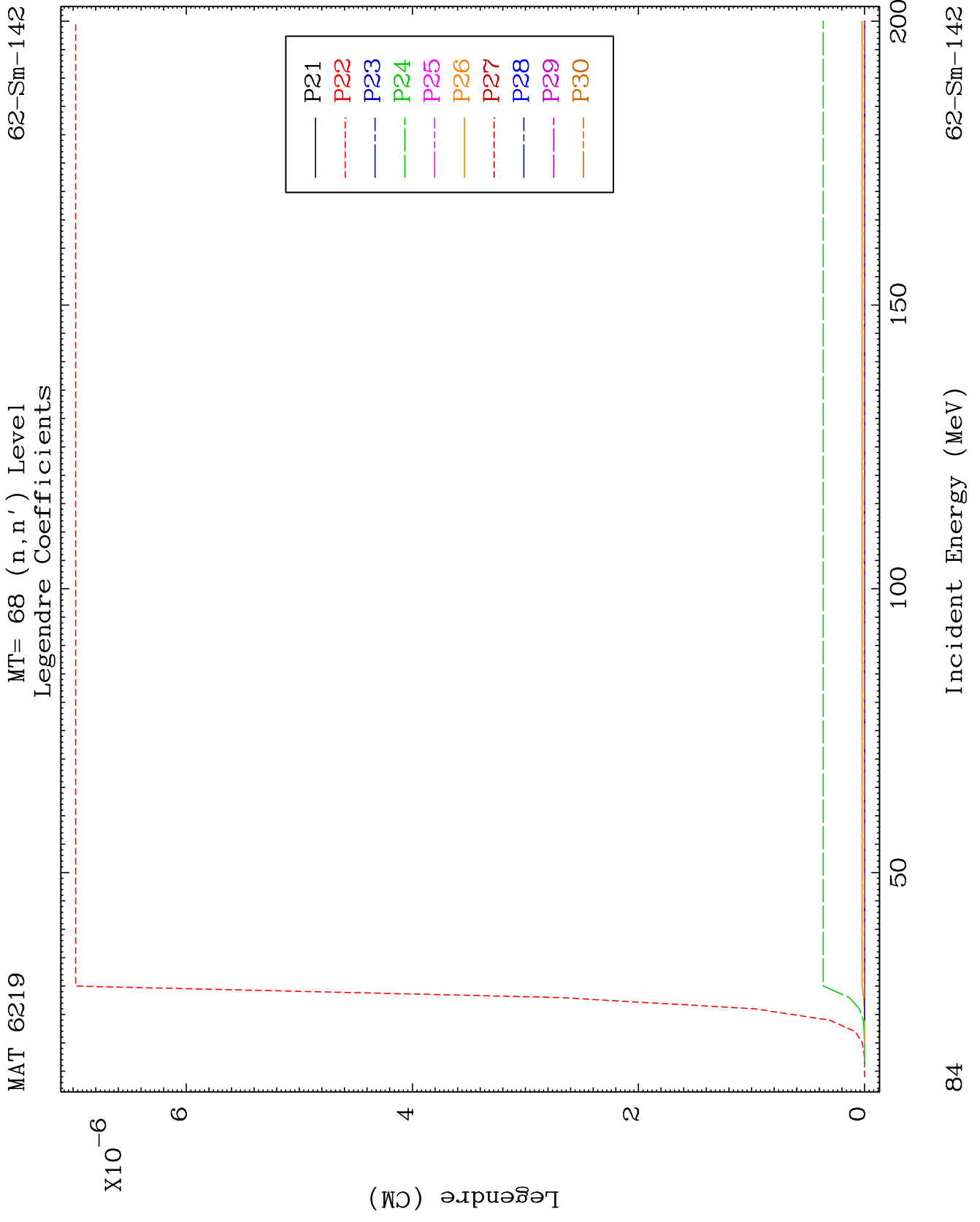








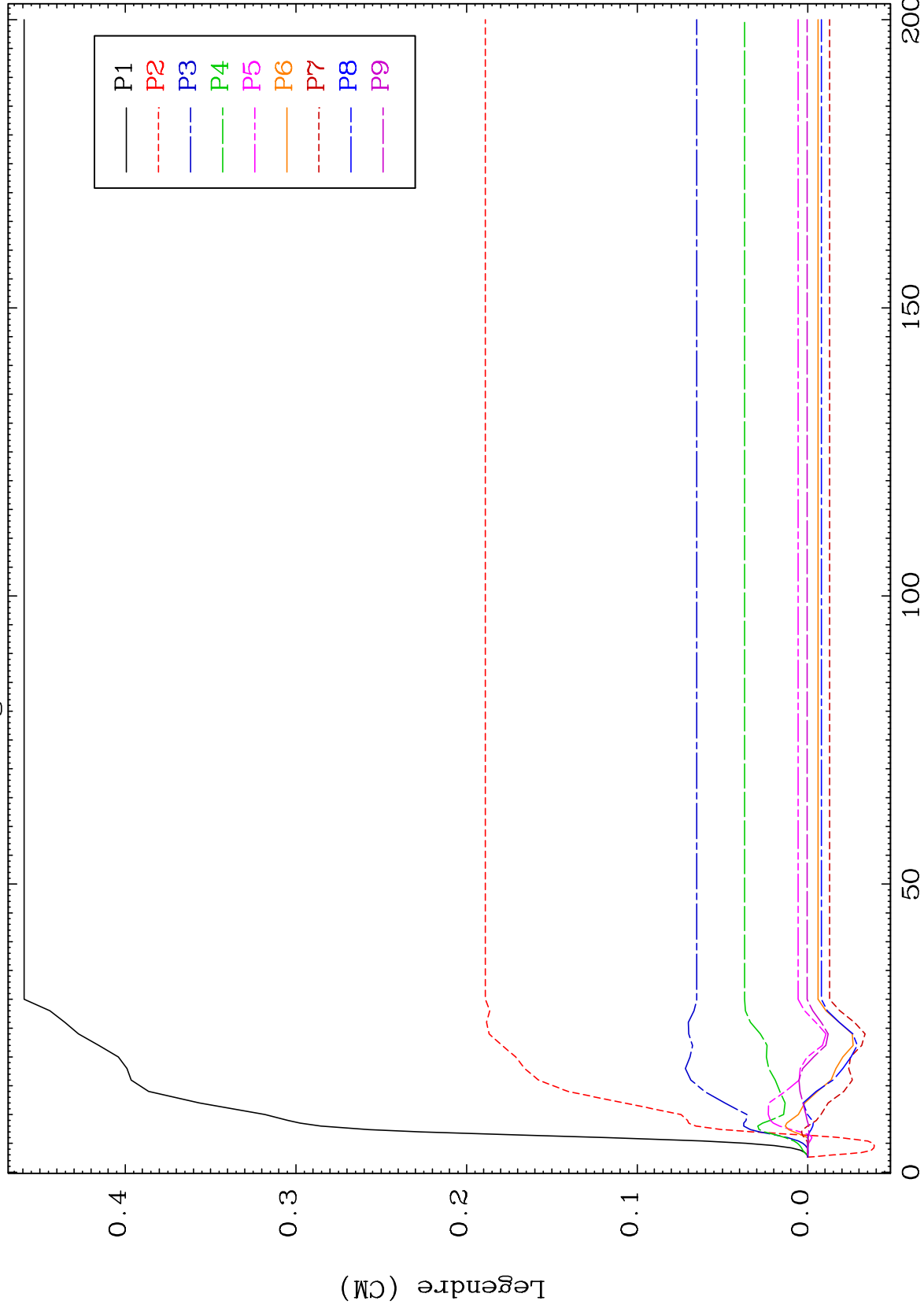




MAT 6219

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

62-Sm-142



85

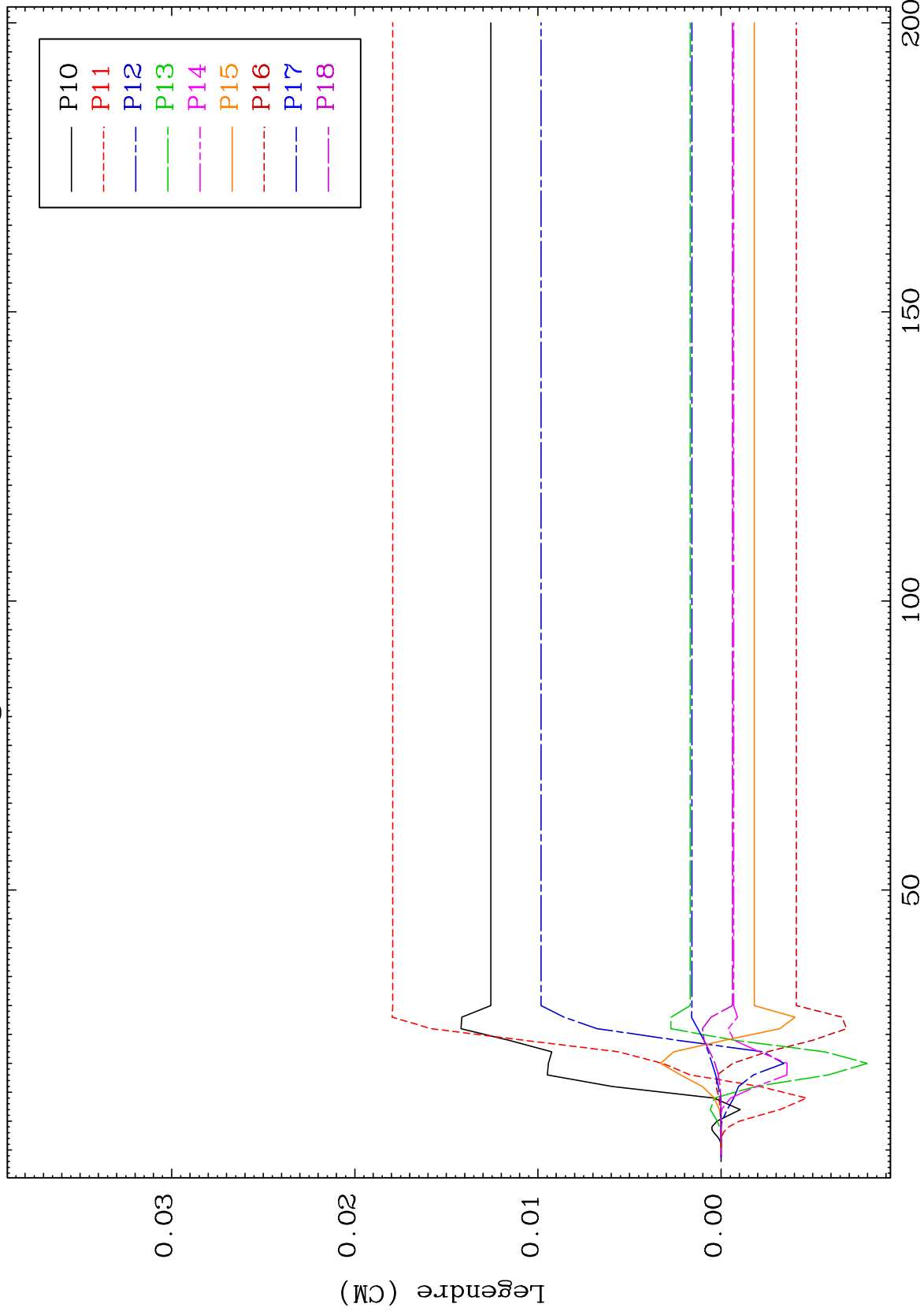
Incident Energy (MeV)

62-Sm-142

MAT 6219

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

62-Sm-142



86

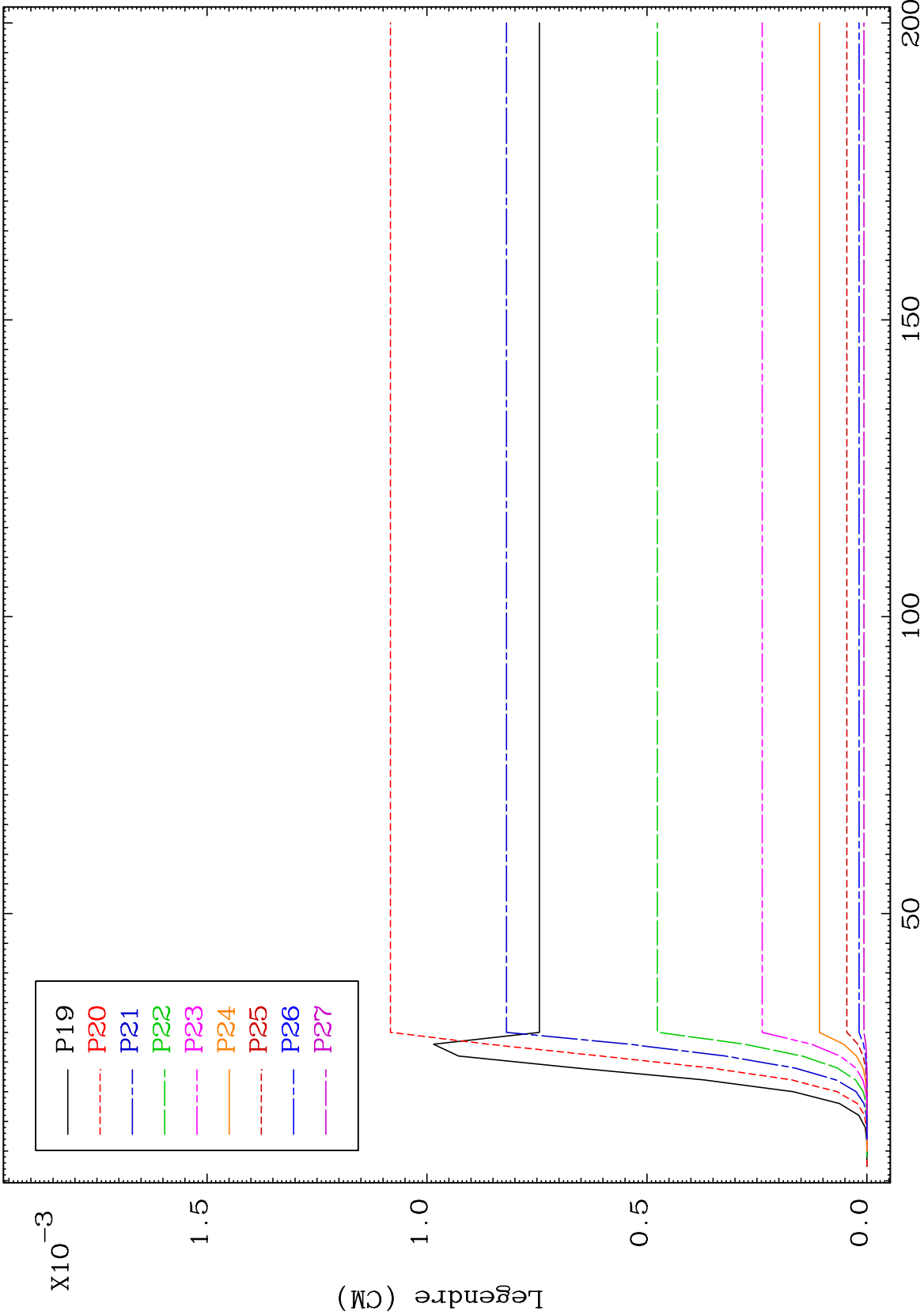
Incident Energy (MeV)

62-Sm-142

MAT 6219

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

62-Sm-142



87

Incident Energy (MeV)

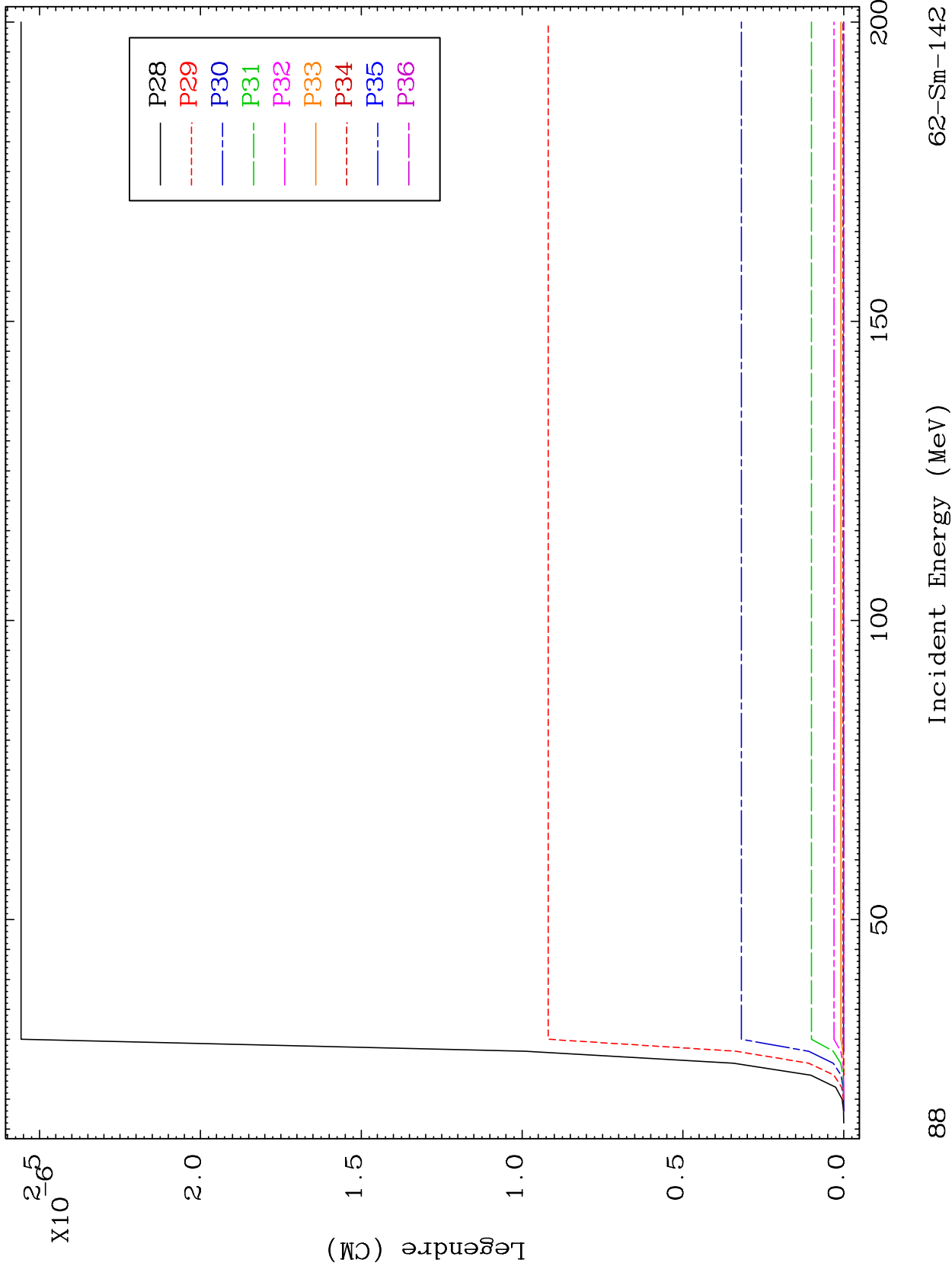
62-Sm-142



MAT 6219

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

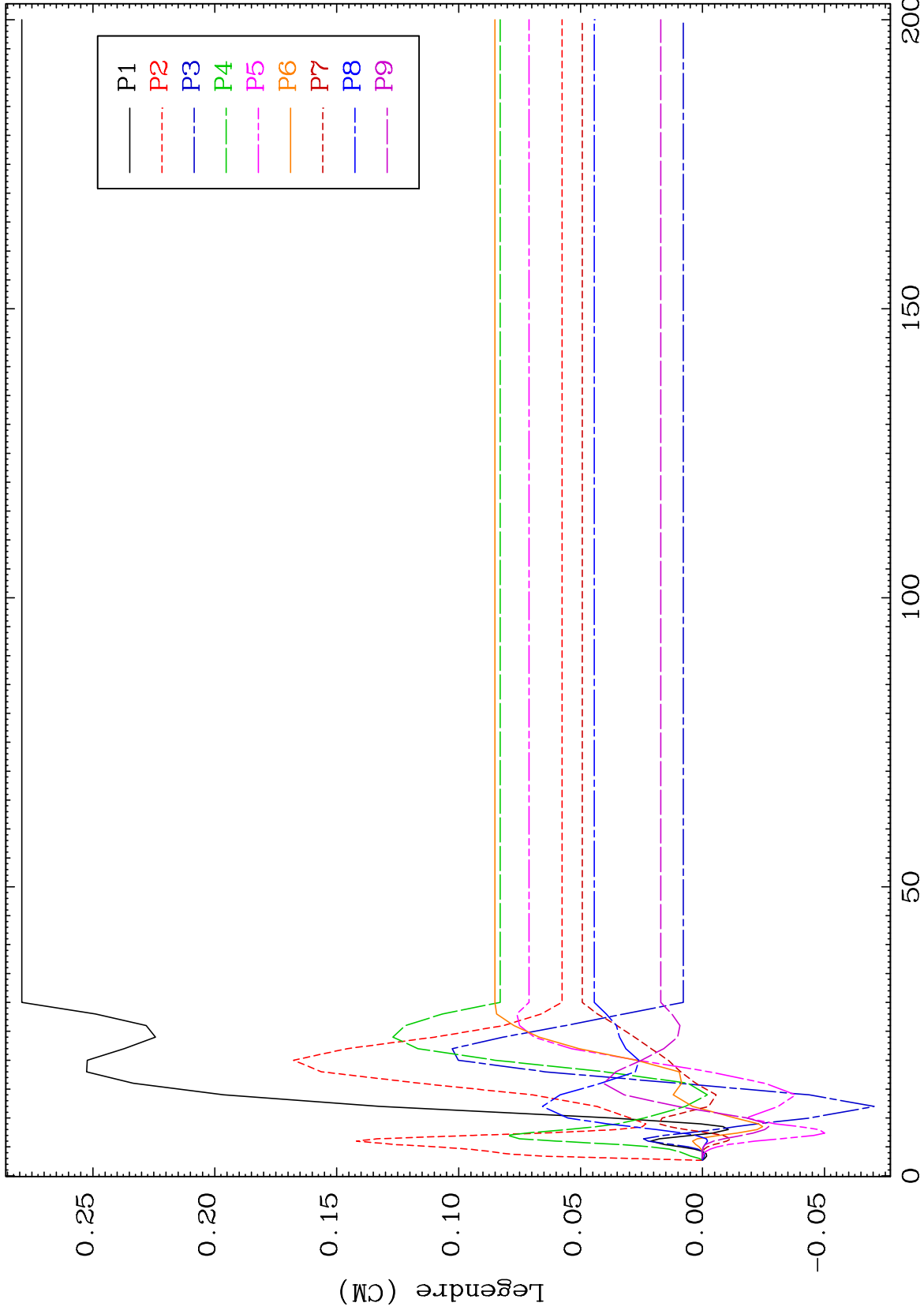
62-Sm-142



MAT 6219

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

62-Sm-142



89

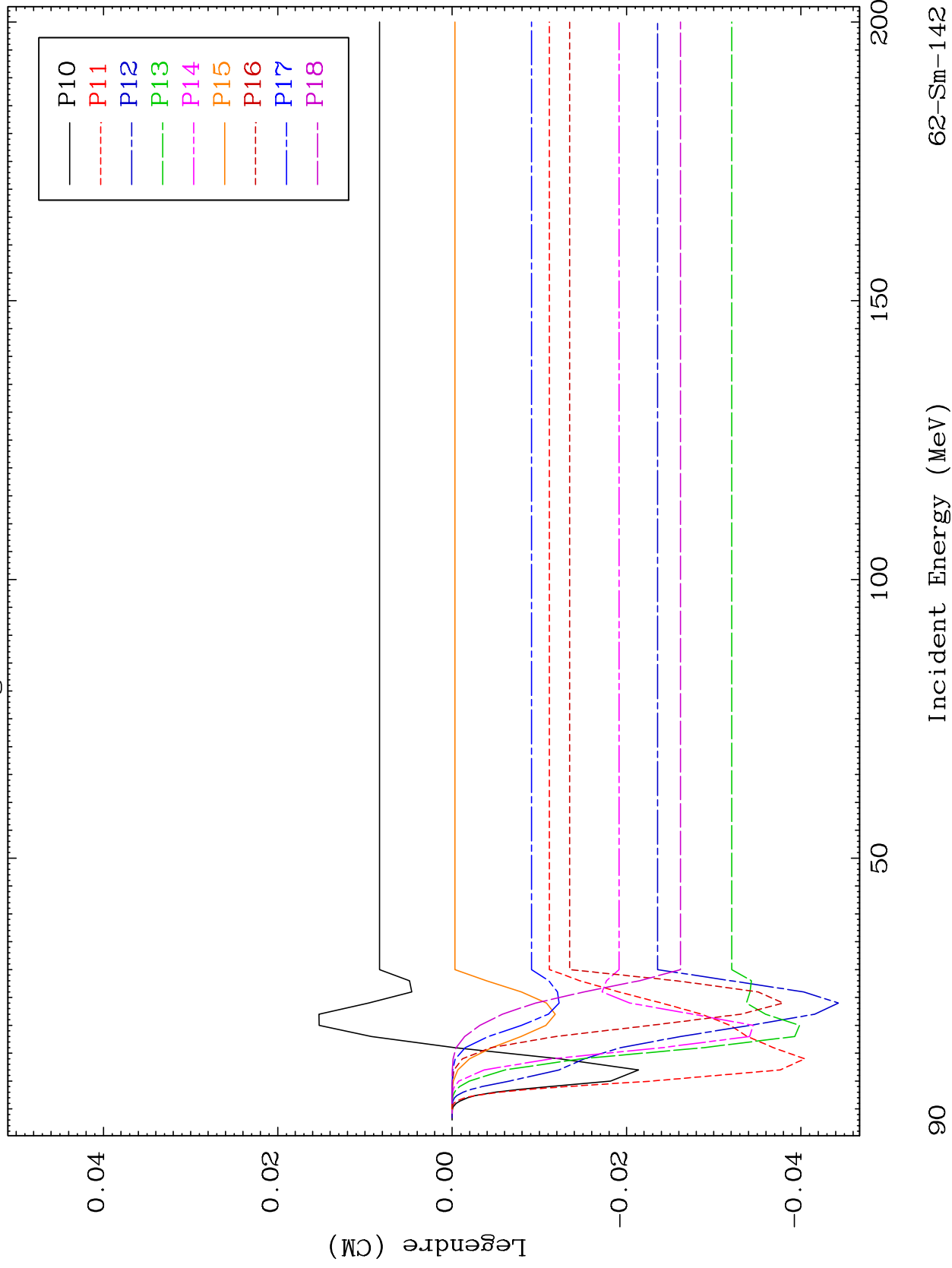
Incident Energy (MeV)

62-Sm-142

MAT 6219

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

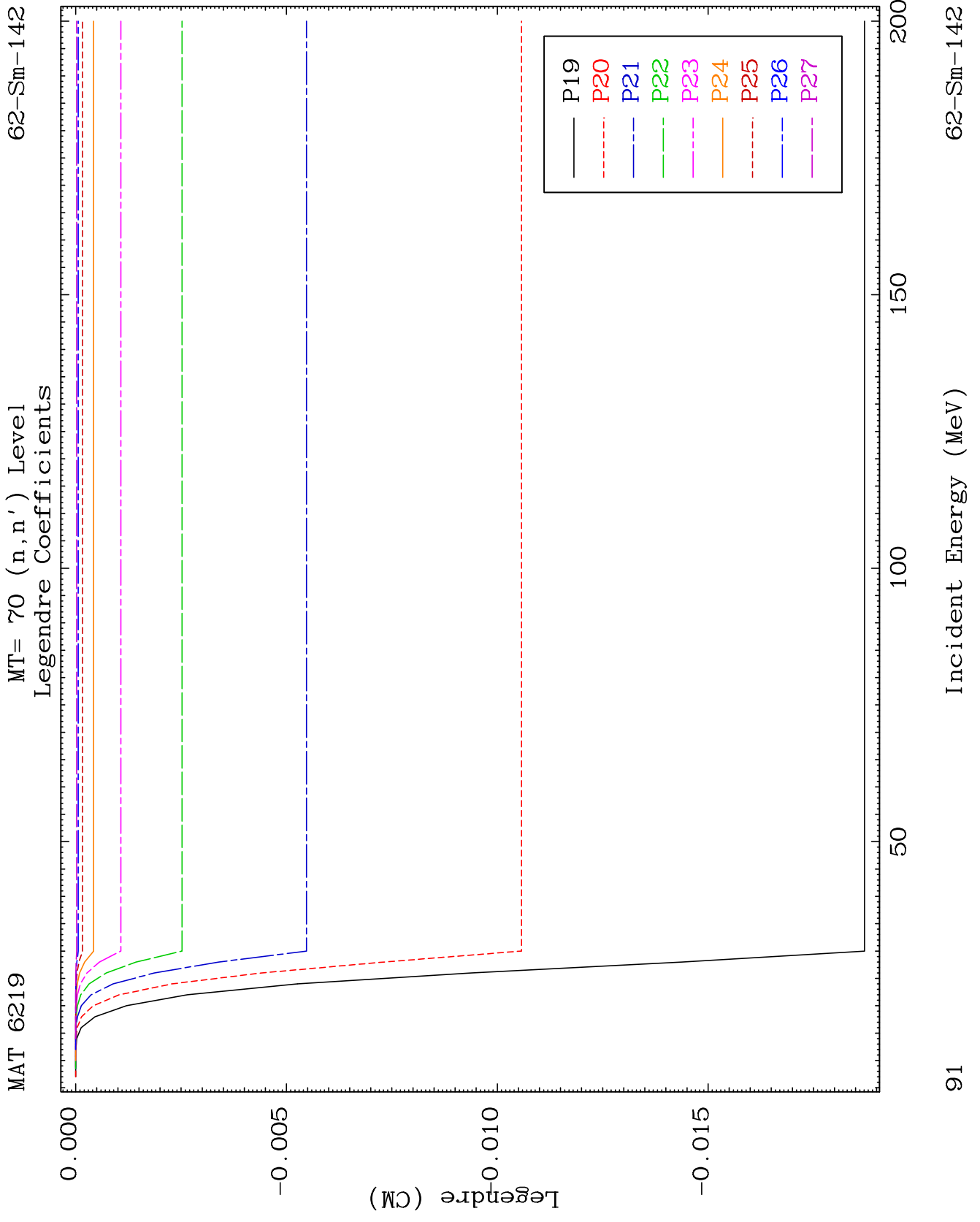
62-Sm-142

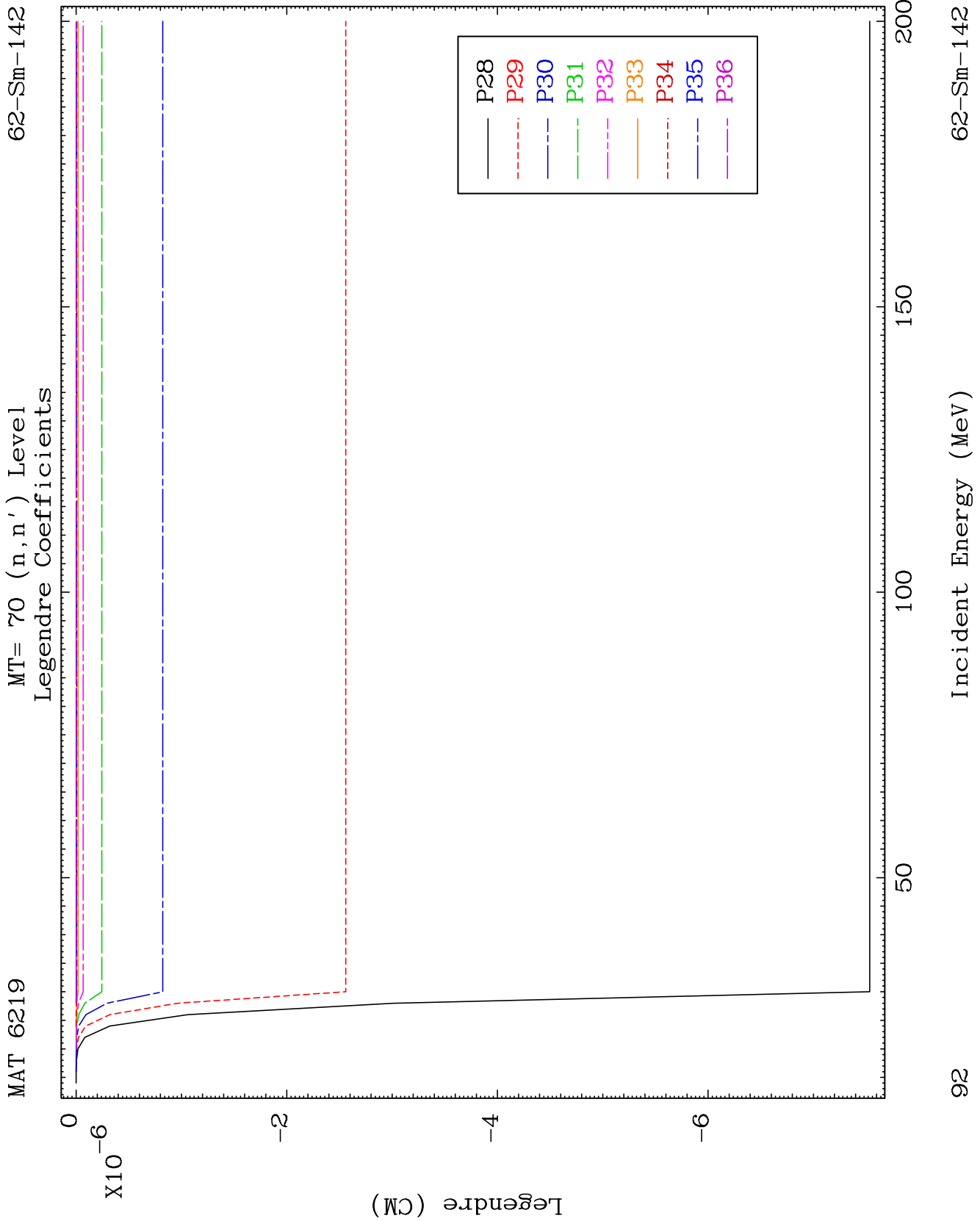


90

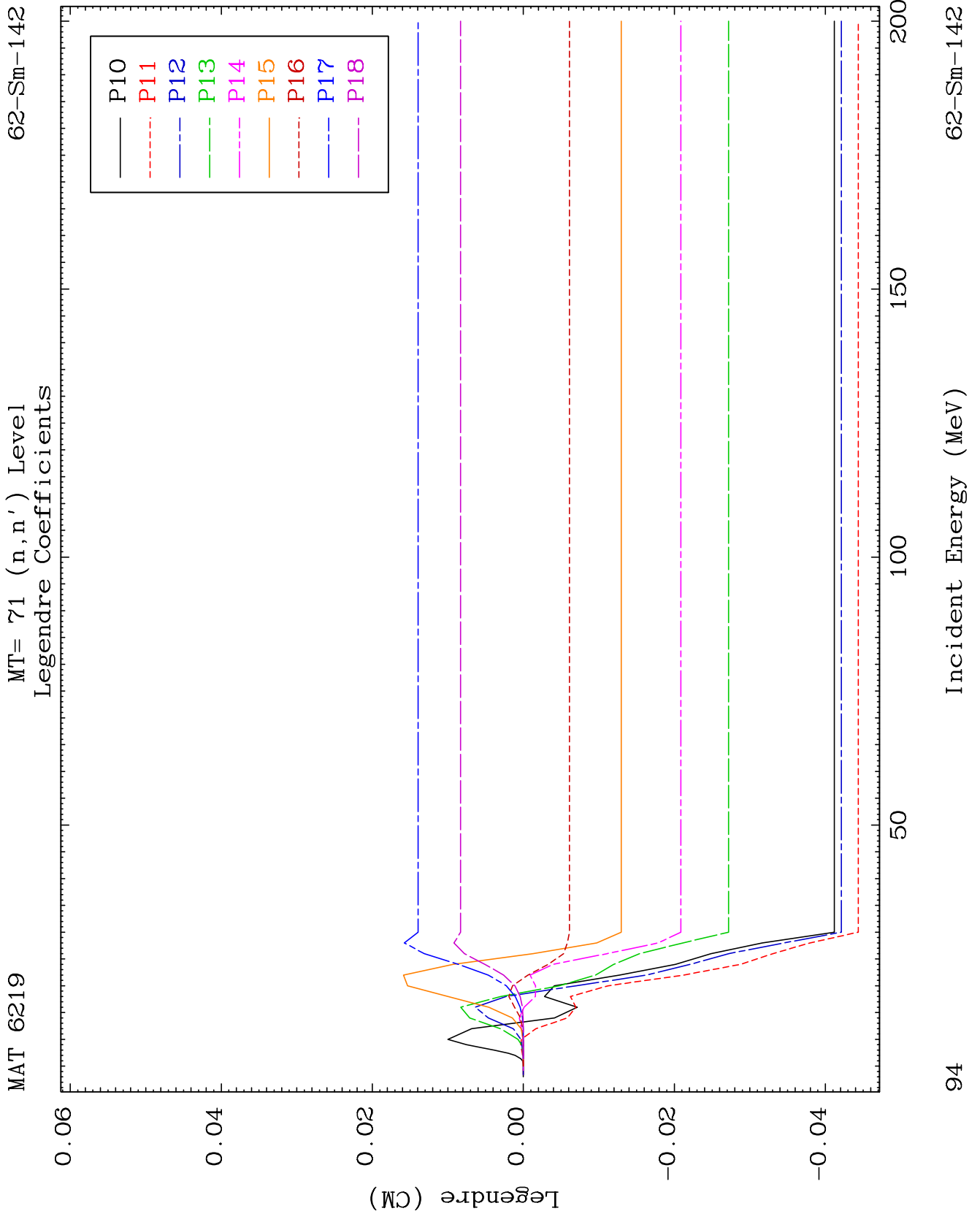
Incident Energy (MeV)

62-Sm-142





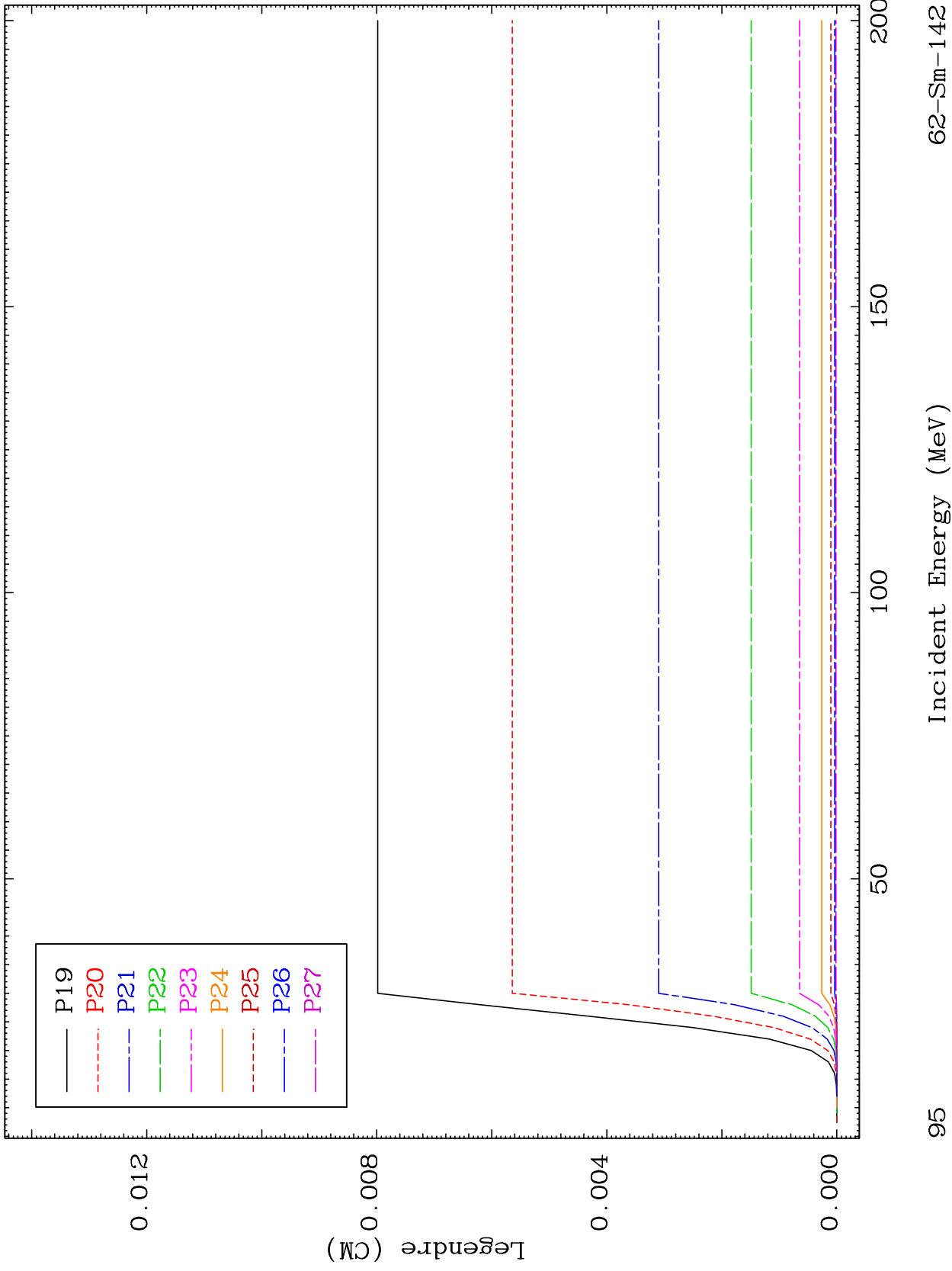




MAT 6219

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

62-Sm-142



95

Incident Energy (MeV)

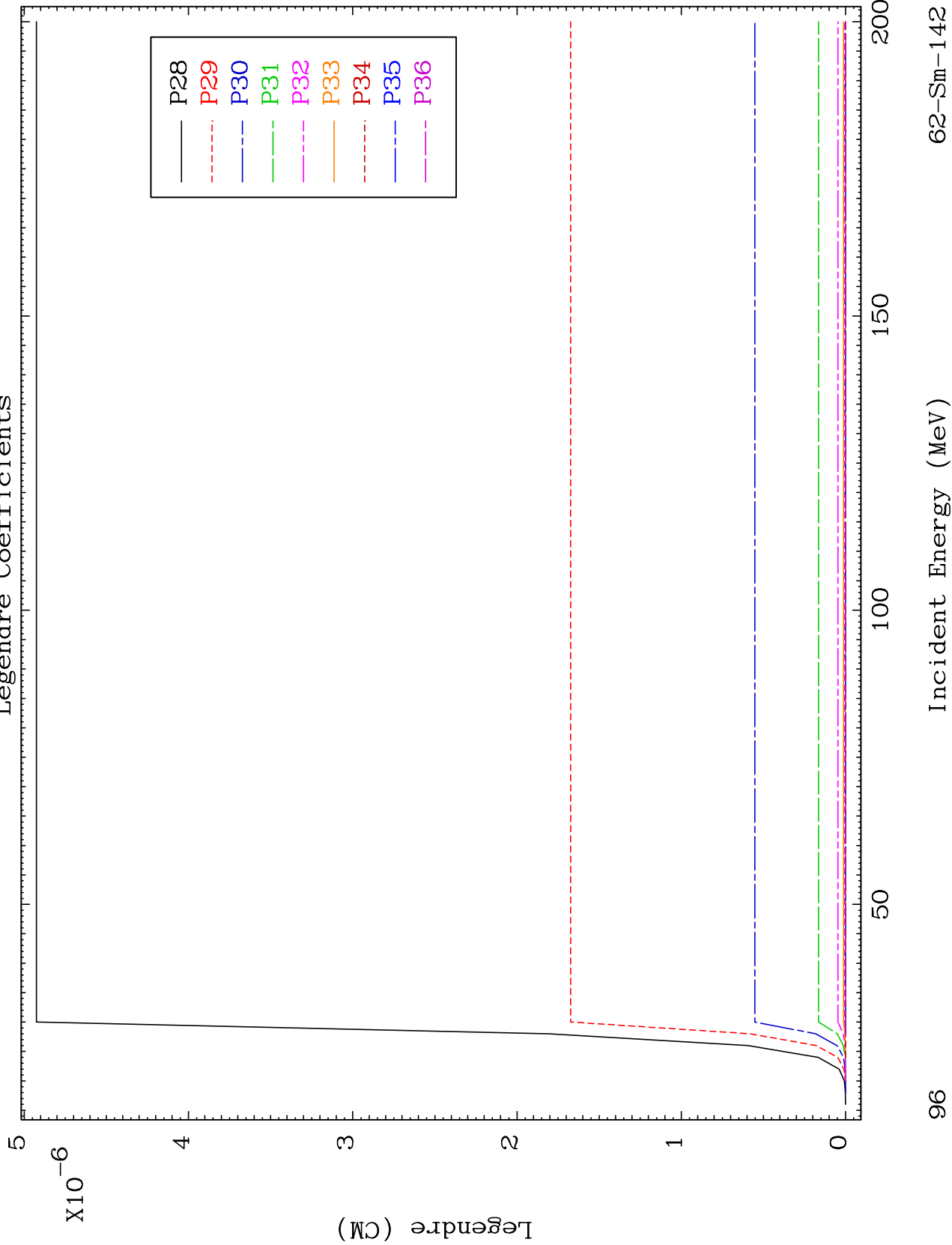
62-Sm-142



MAT 6219

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

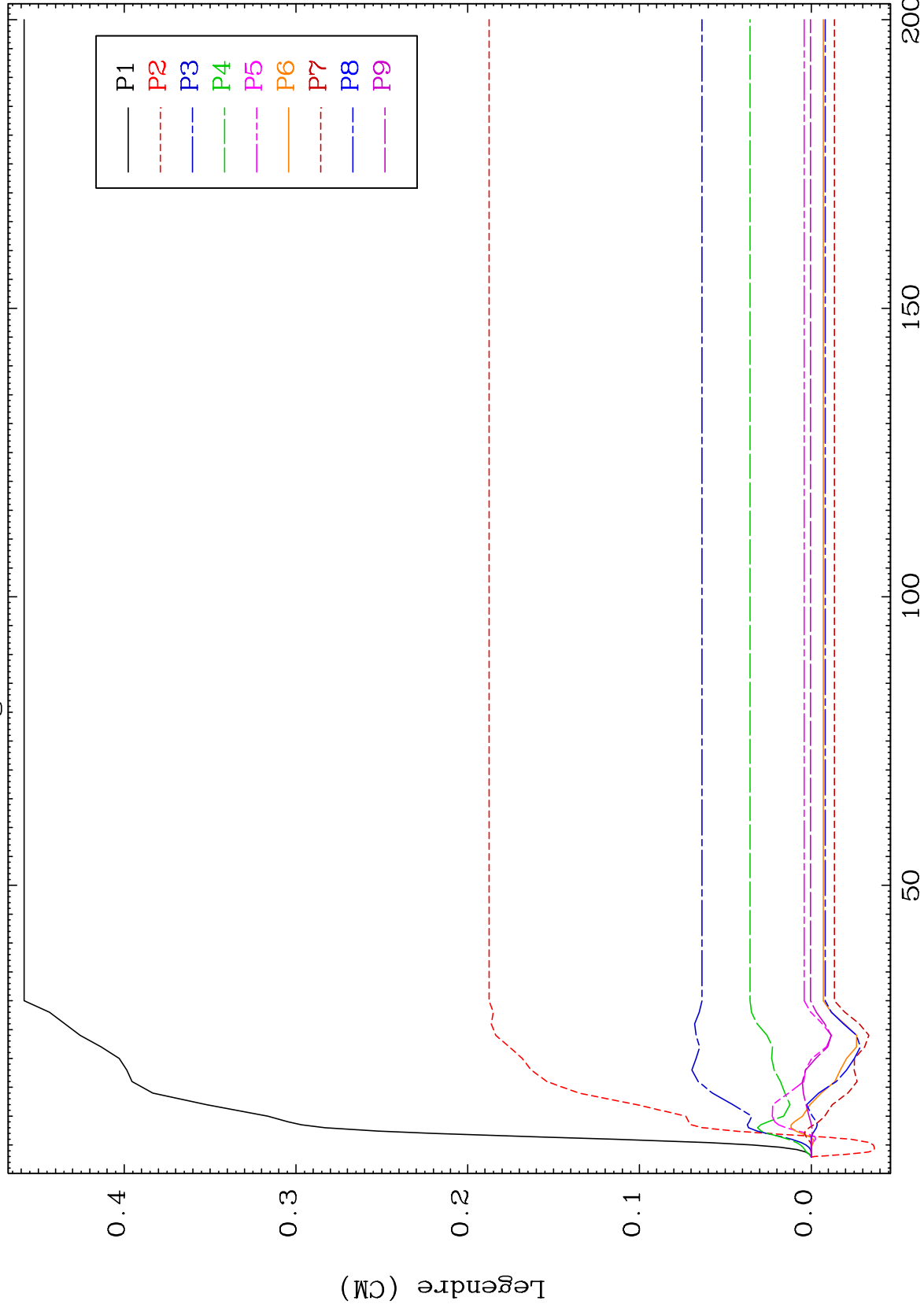
62-Sm-142



MAT 6219

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

62-Sm-142



97

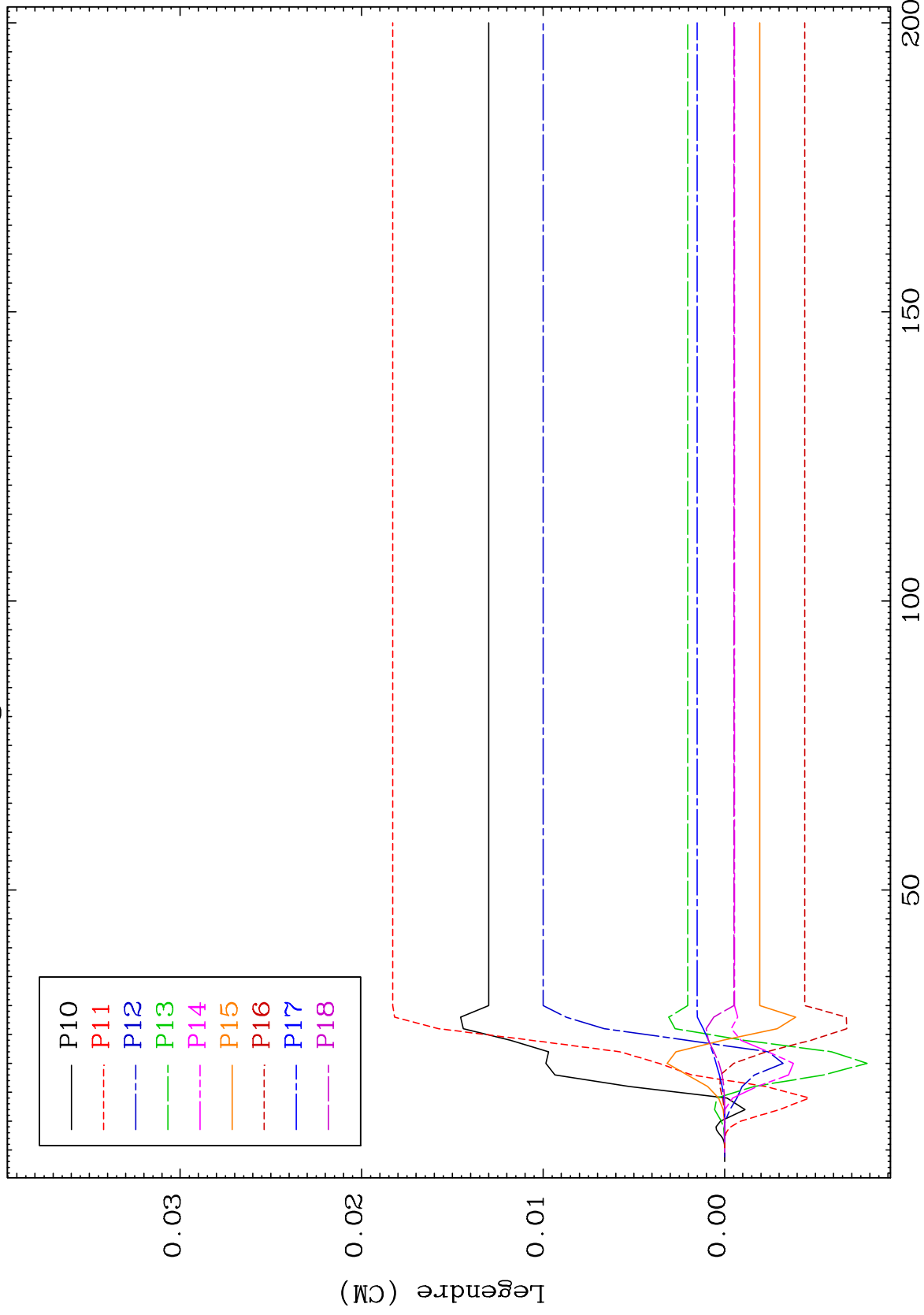
Incident Energy (MeV)

62-Sm-142

MAT 6219

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

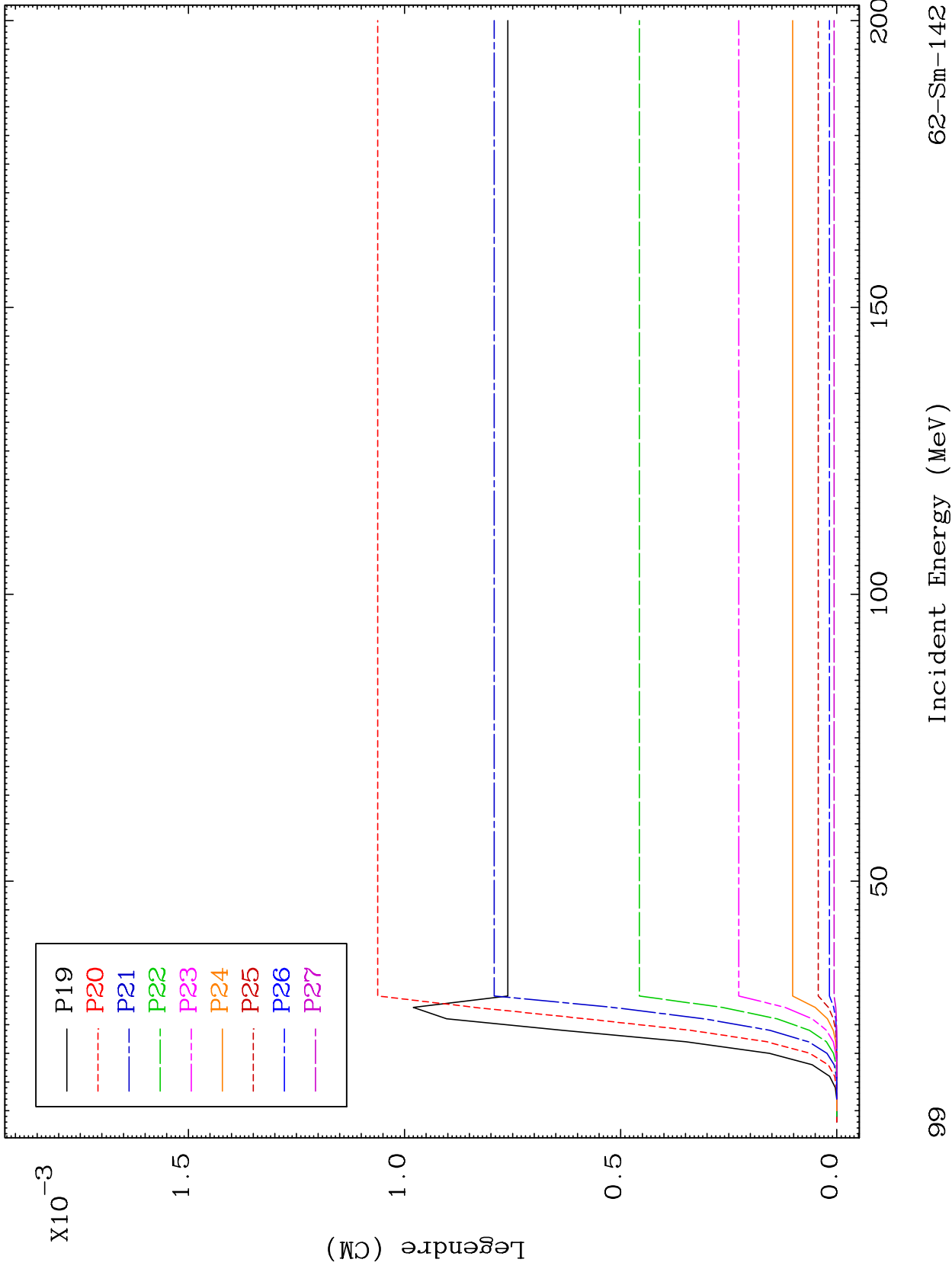
62-Sm-142



98

Incident Energy (MeV)

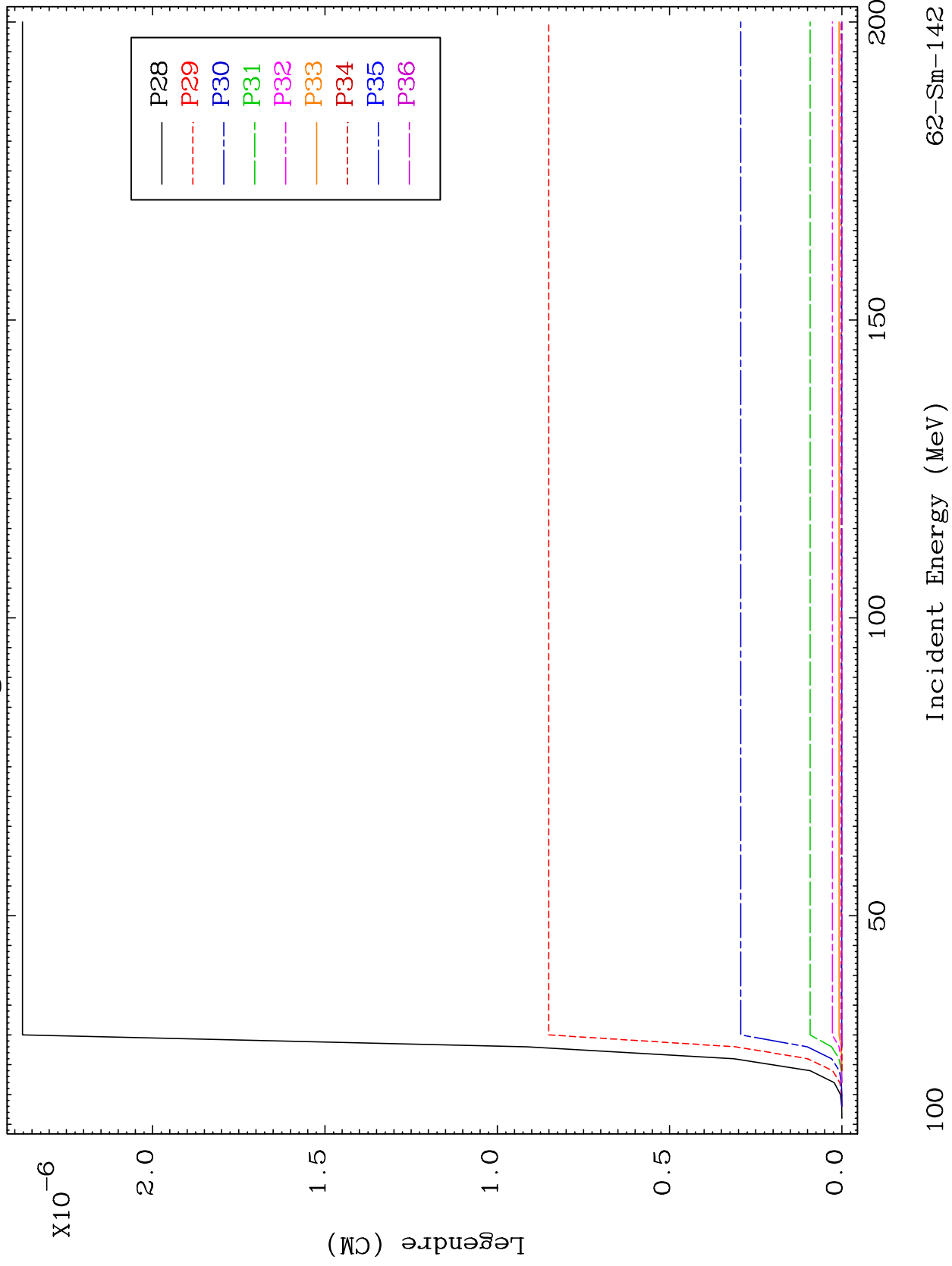
62-Sm-142



MAT 6219

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

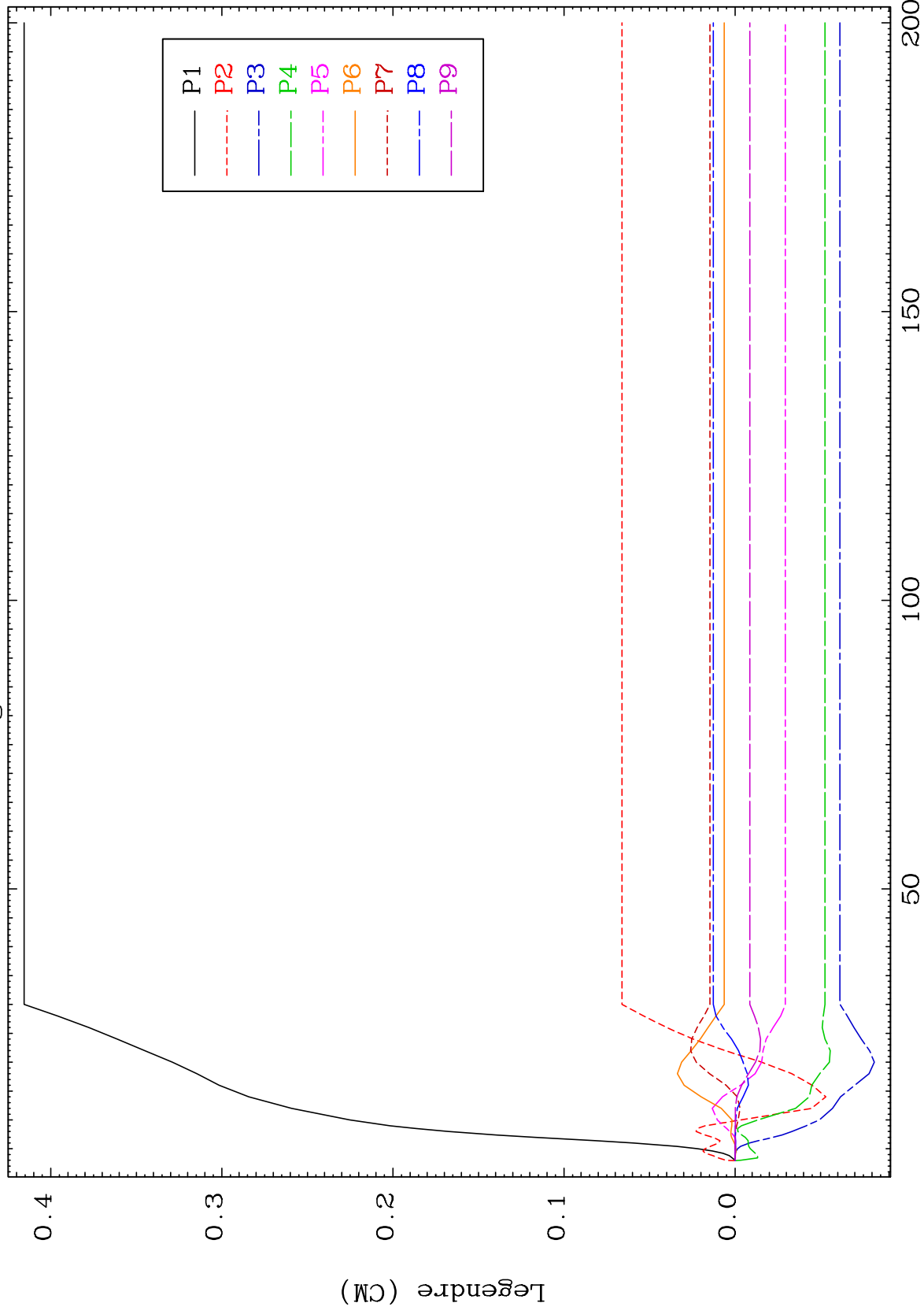
62-Sm-142



MAT 6219

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

62-Sm-142



101

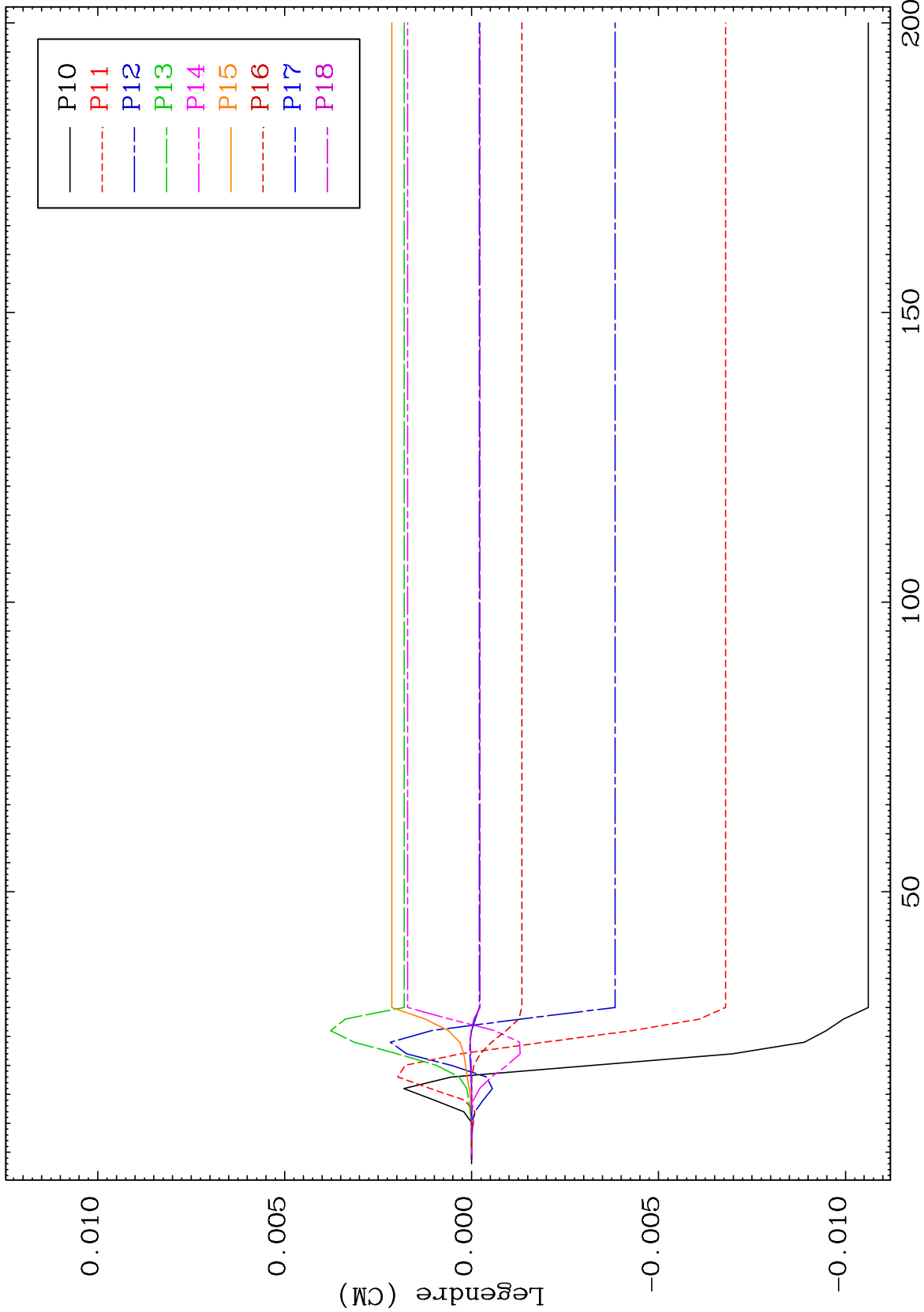
Incident Energy (MeV)

62-Sm-142

MAT 6219

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

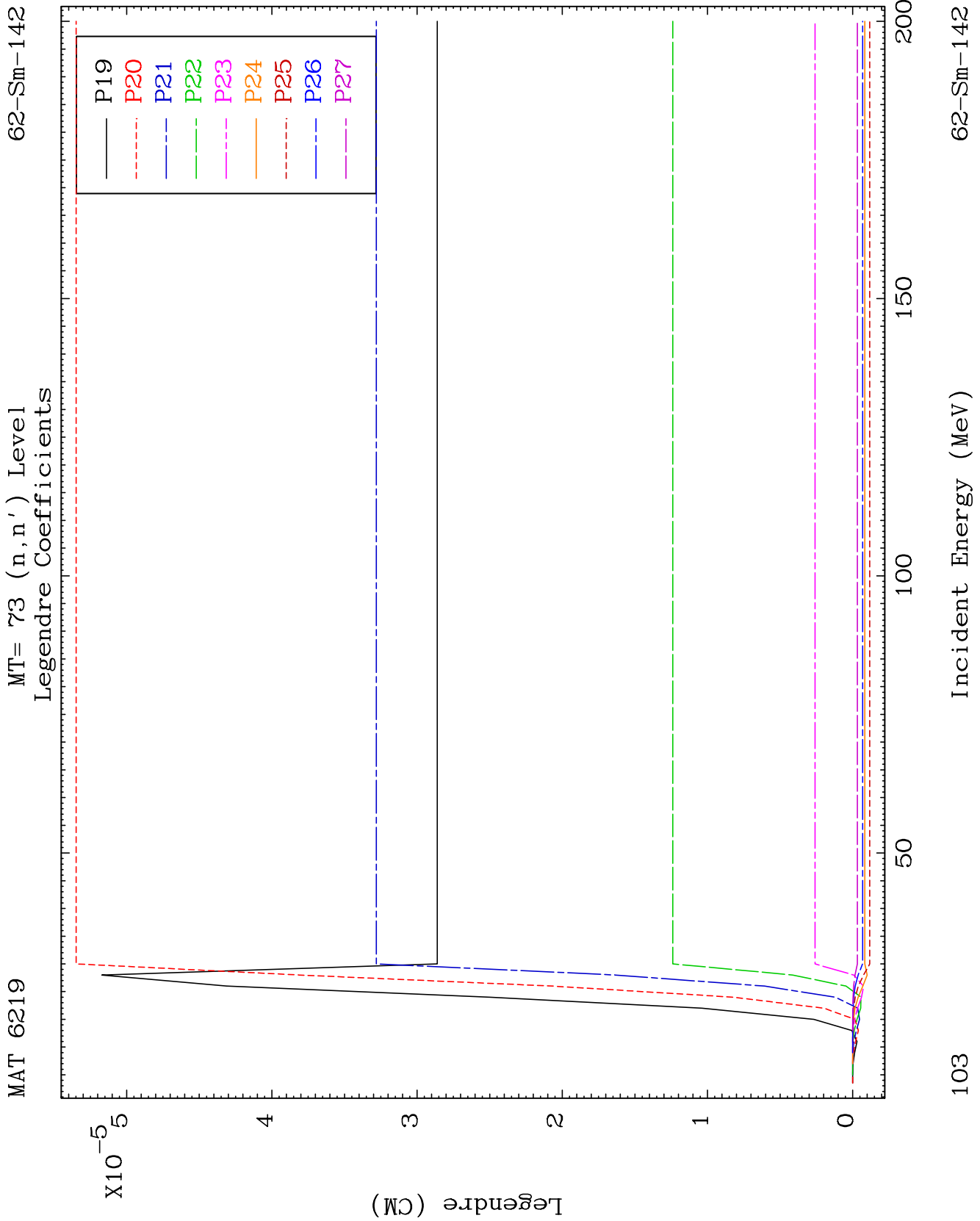
62-Sm-142



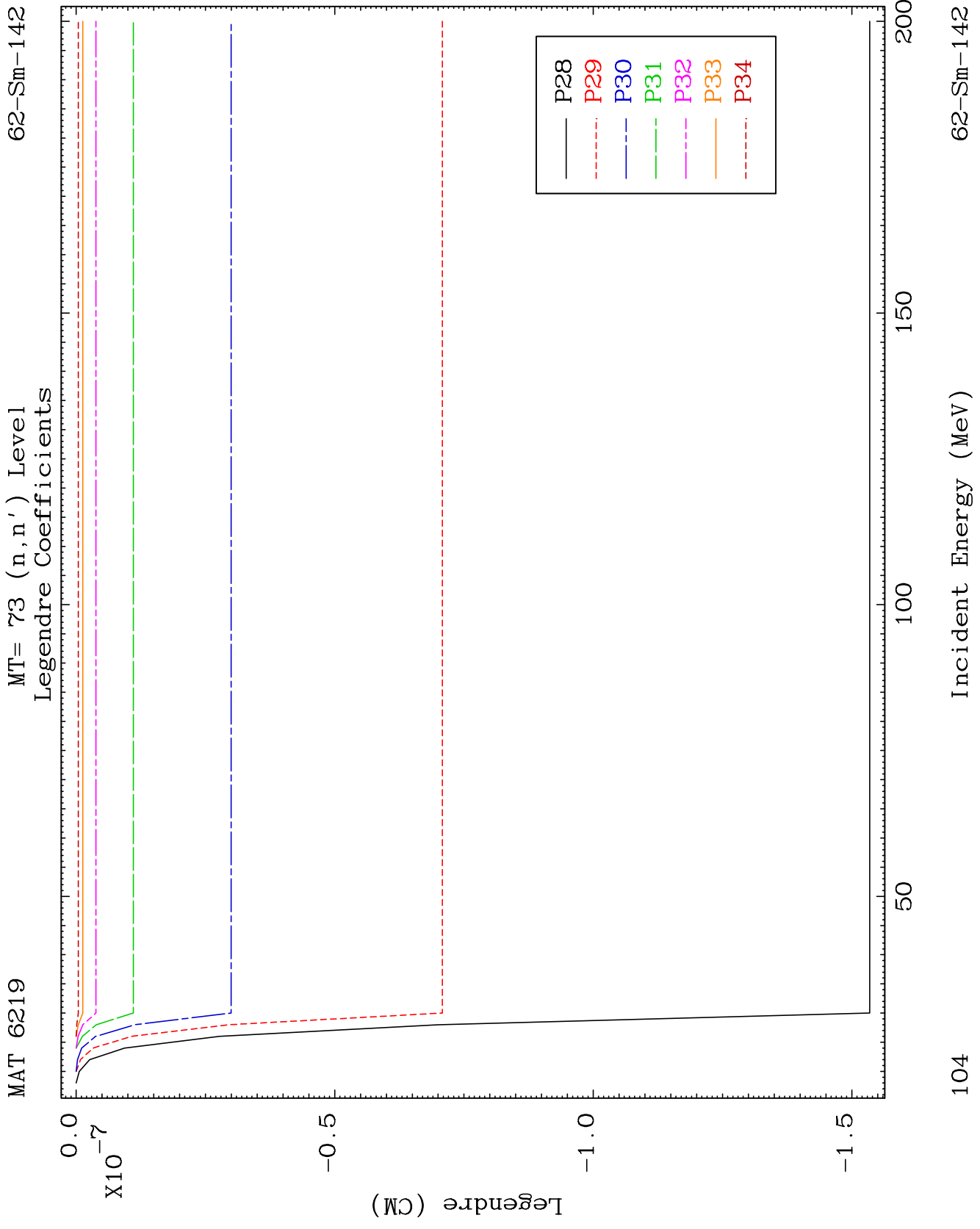
102

Incident Energy (MeV)

62-Sm-142



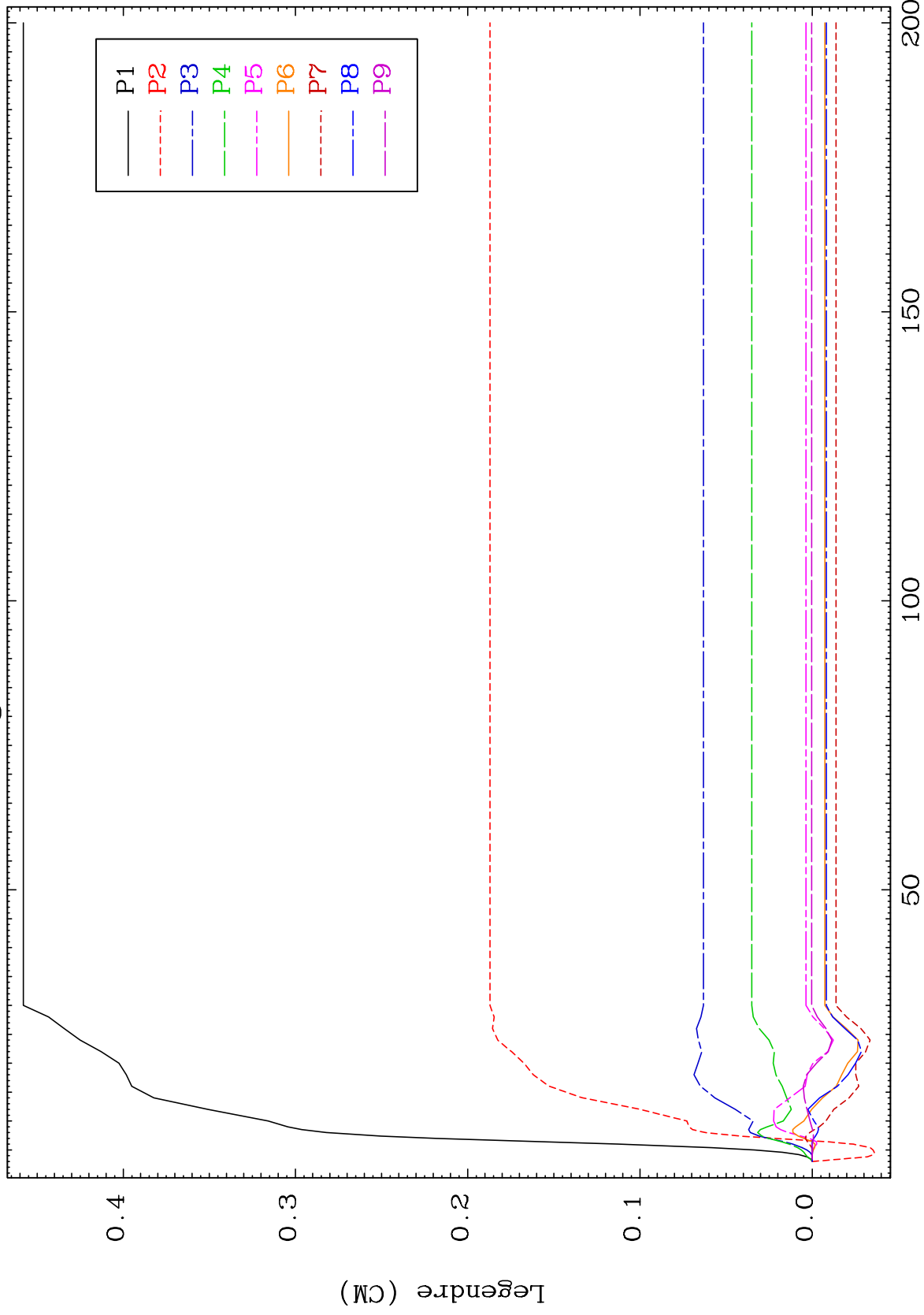




MAT 6219

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

62-Sm-142



62-Sm-142

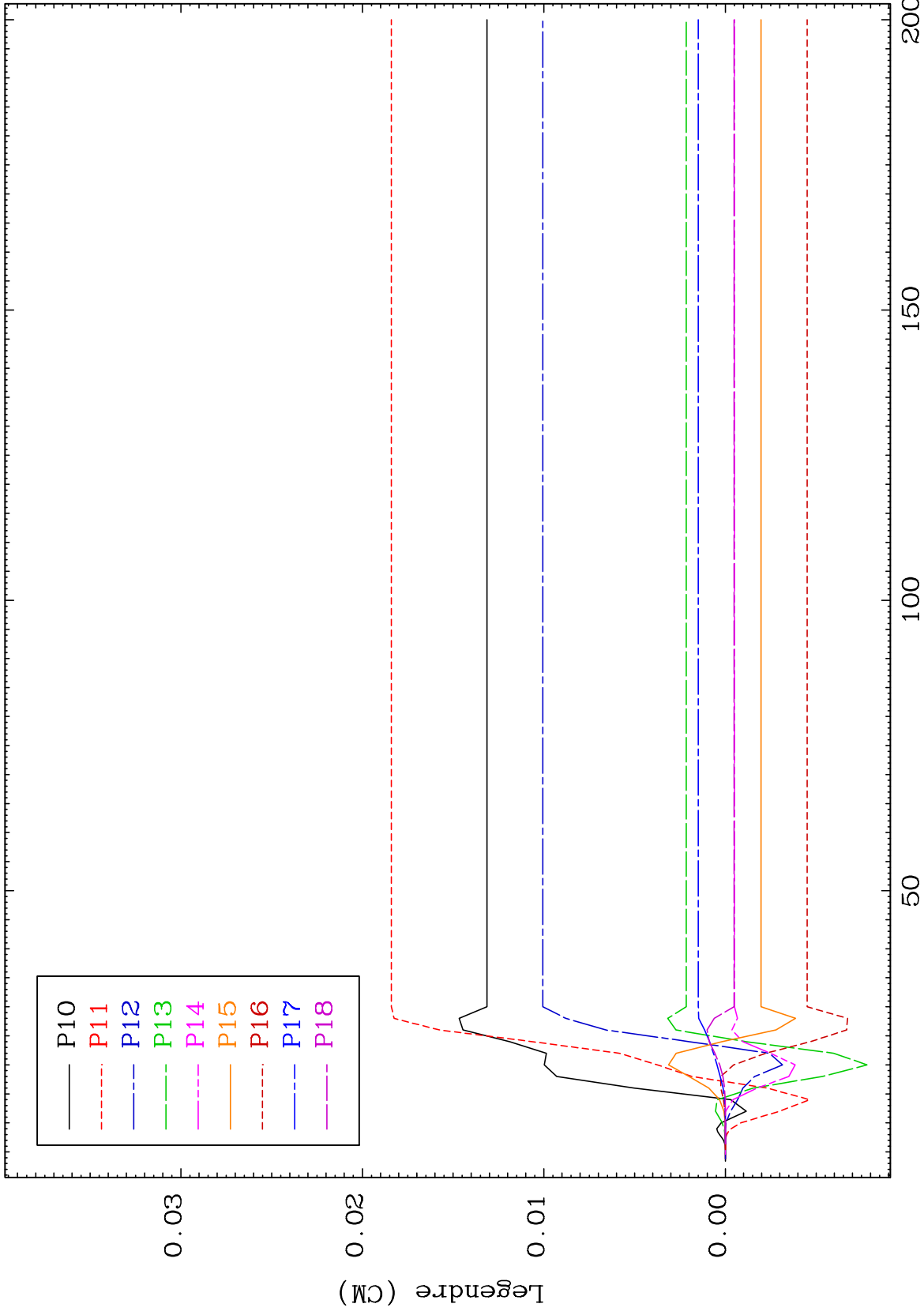
Incident Energy (MeV)

105

MAT 6219

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

62-Sm-142



106

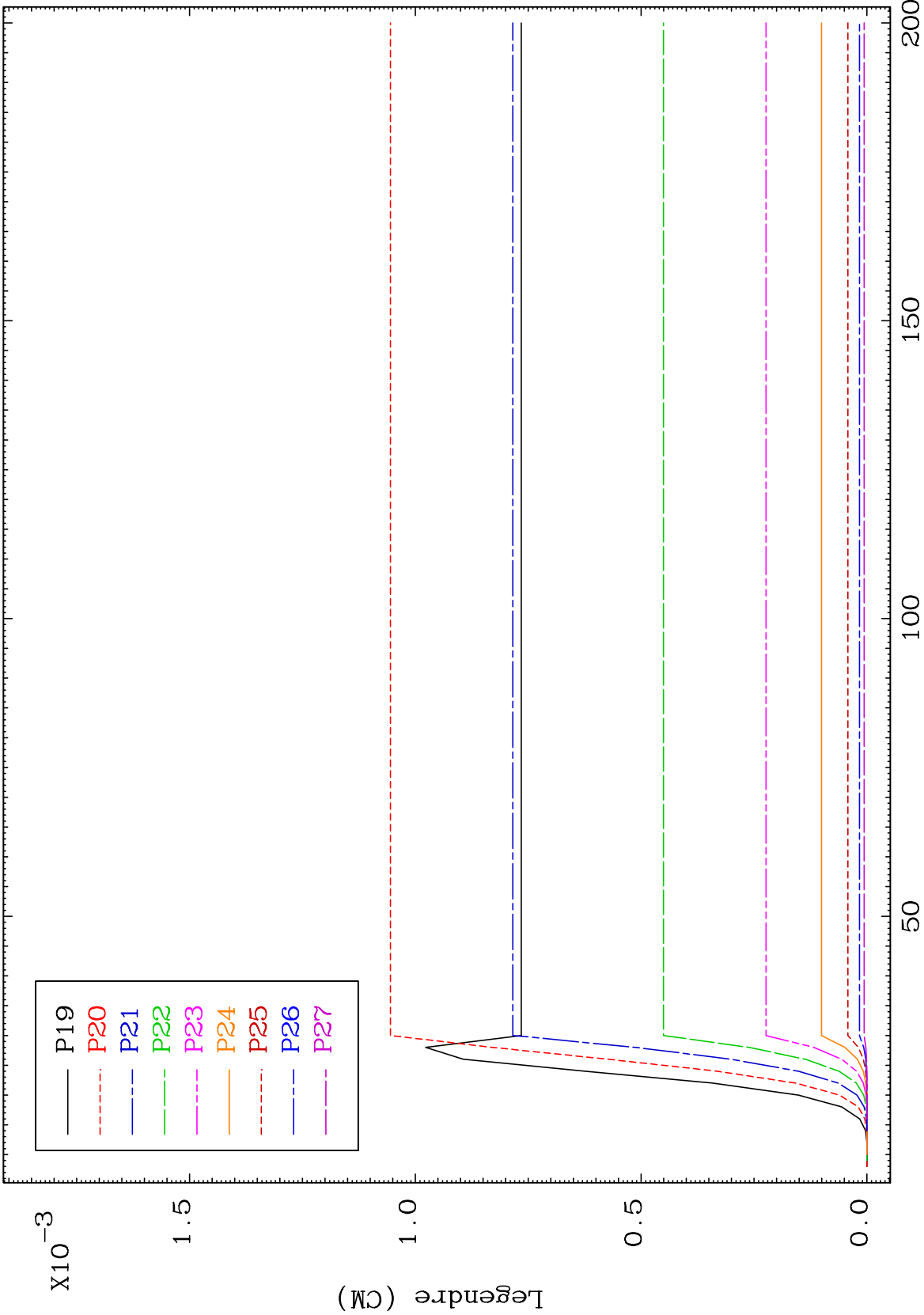
Incident Energy (MeV)

62-Sm-142

MAT 6219

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

62-Sm-142



107

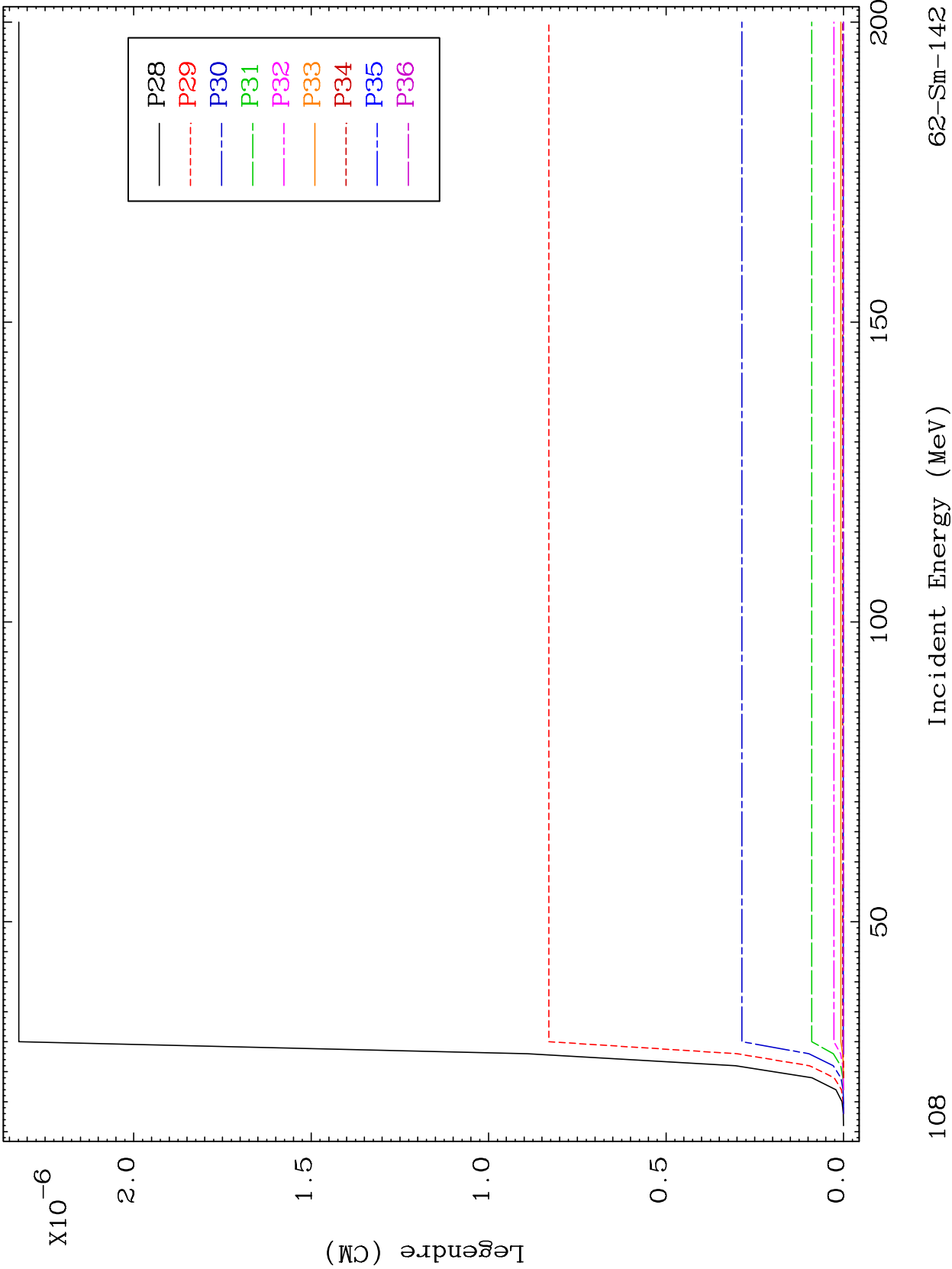
Incident Energy (MeV)

62-Sm-142

MAT 6219

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

62-Sm-142



108

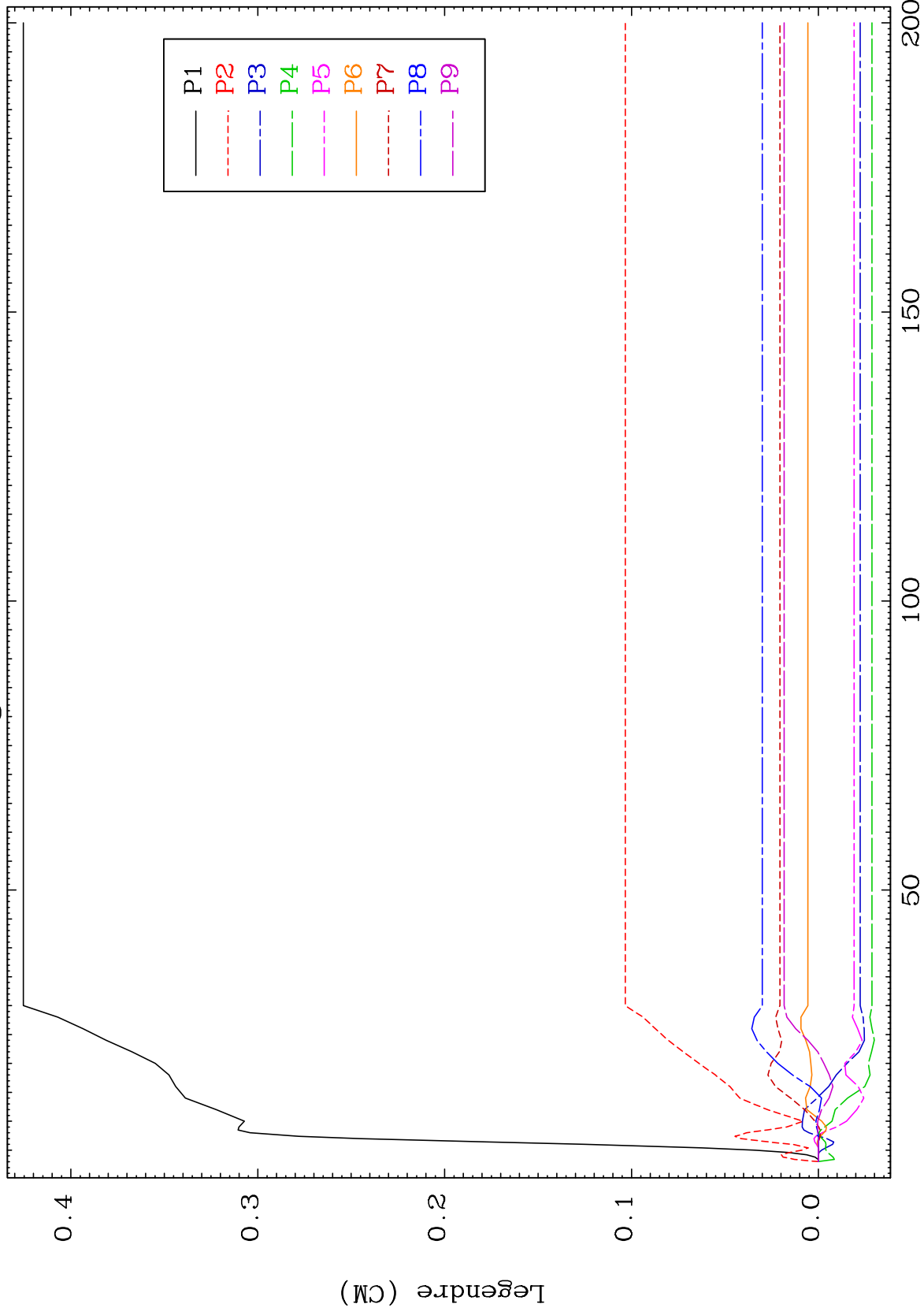
Incident Energy (MeV)

62-Sm-142

MAT 6219

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

62-Sm-142



109

Incident Energy (MeV)

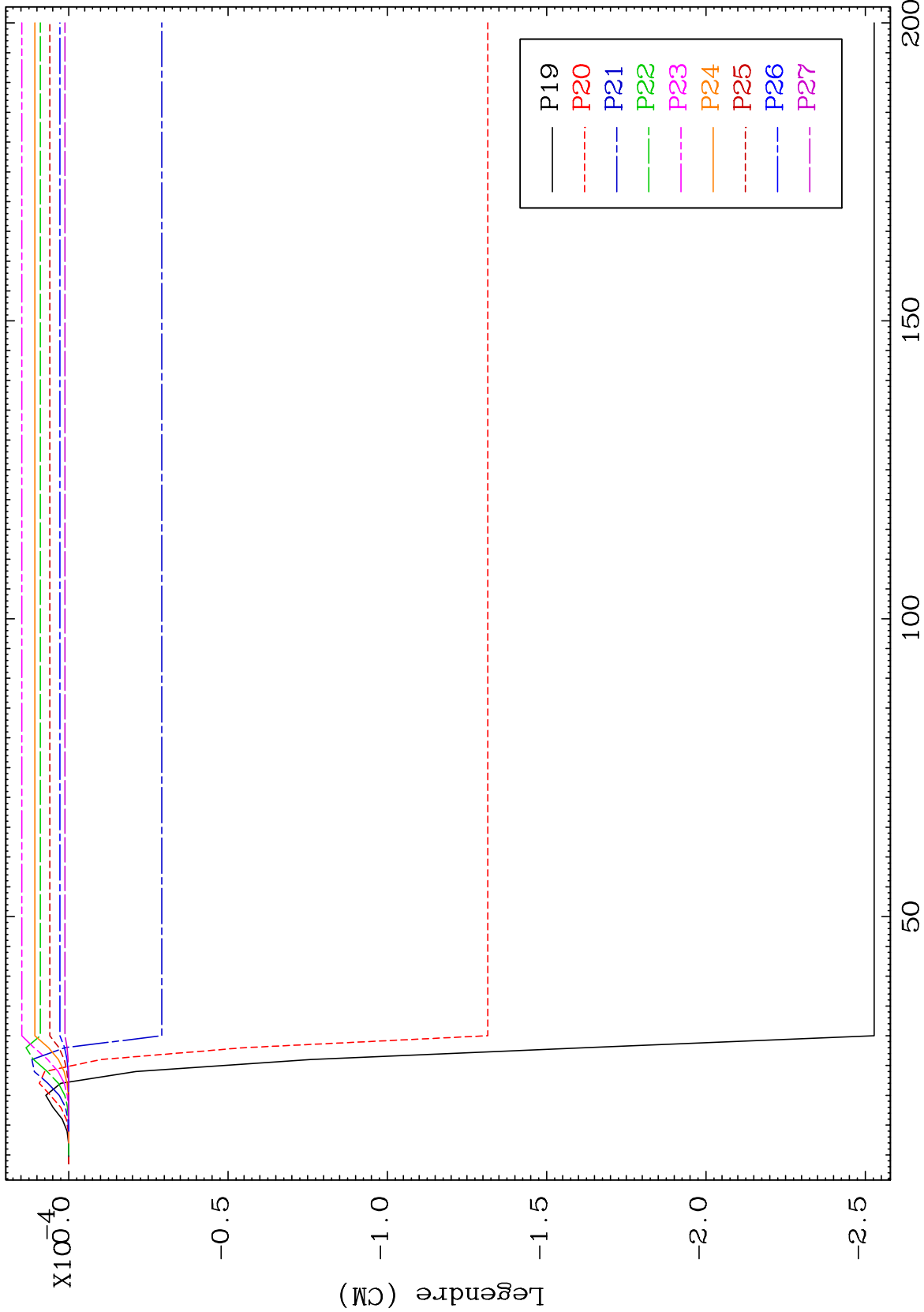
62-Sm-142



MAT 6219

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

62-Sm-142

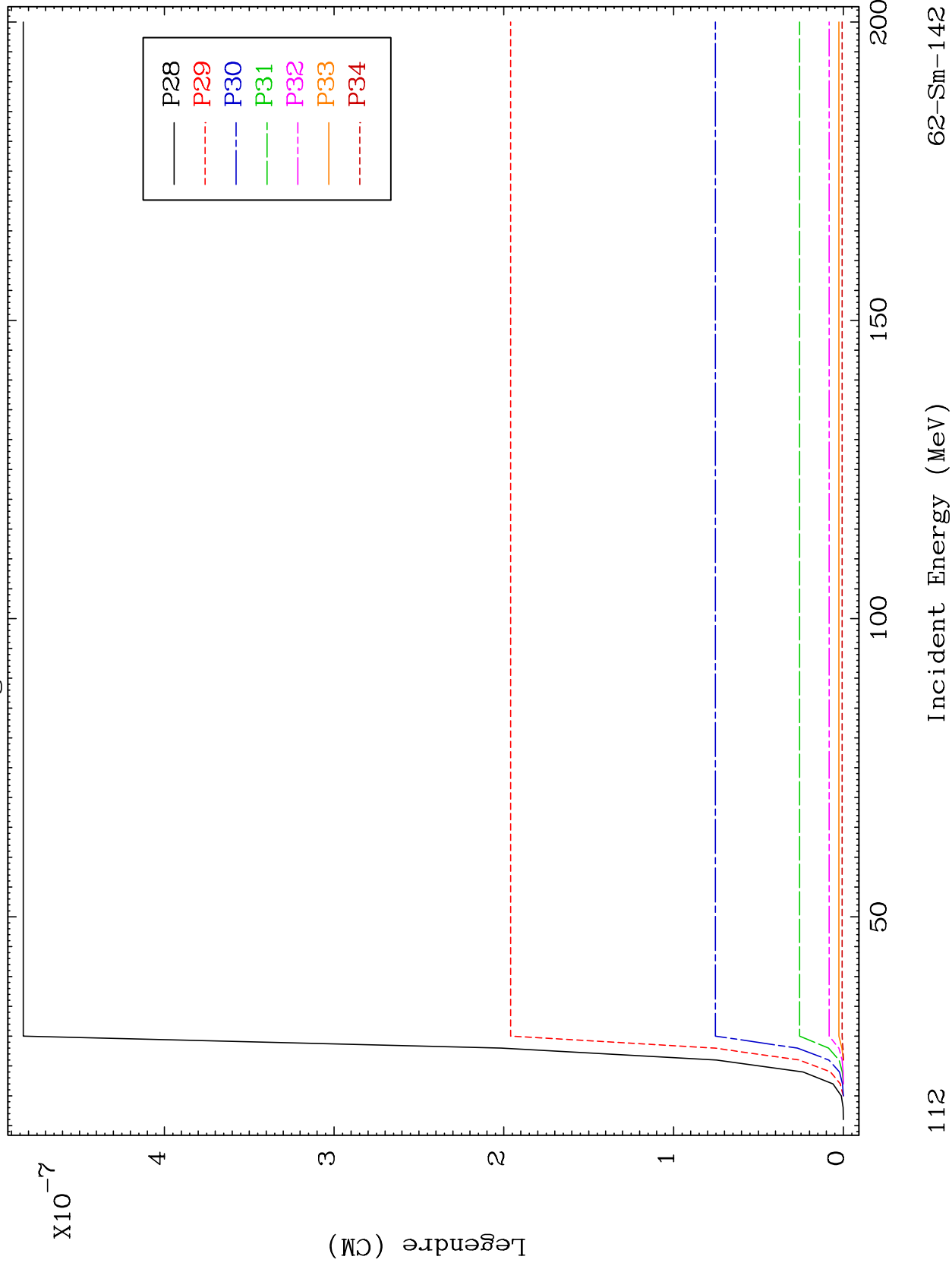




MAT 6219

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

62-Sm-142

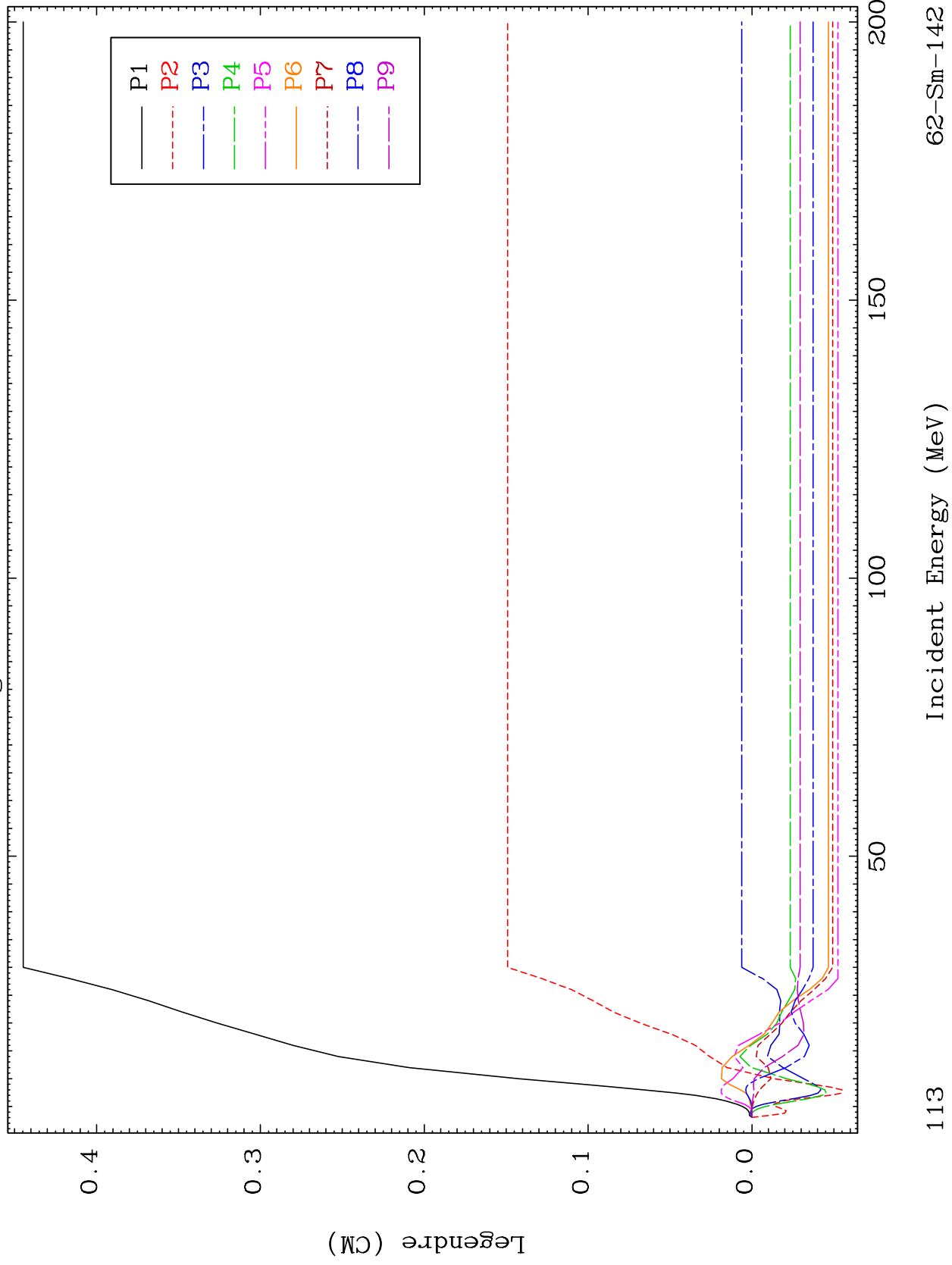


112

MAT 6219

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

62-Sm-142



113

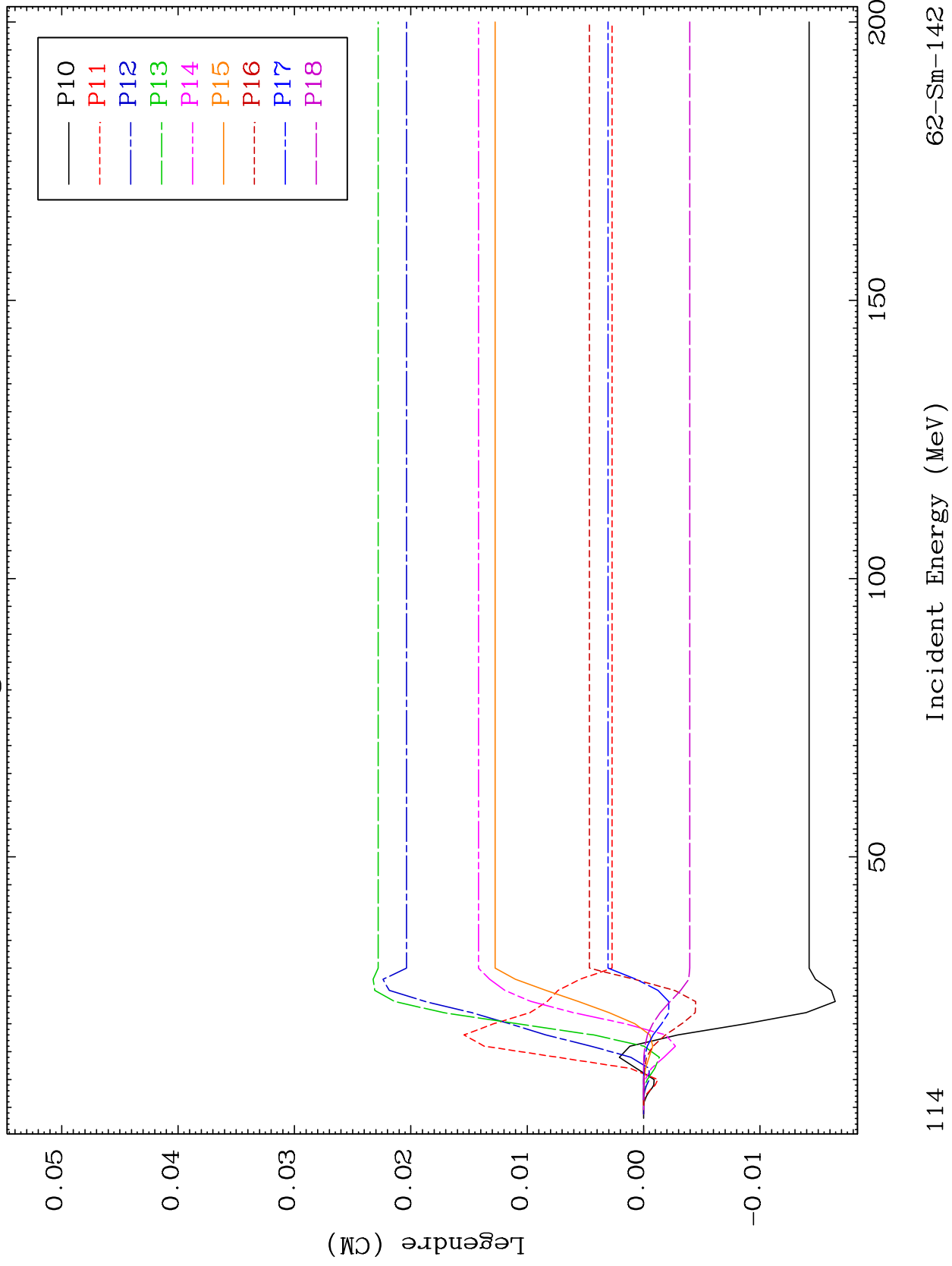
Incident Energy (MeV)

62-Sm-142

MAT 6219

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

62-Sm-142



114

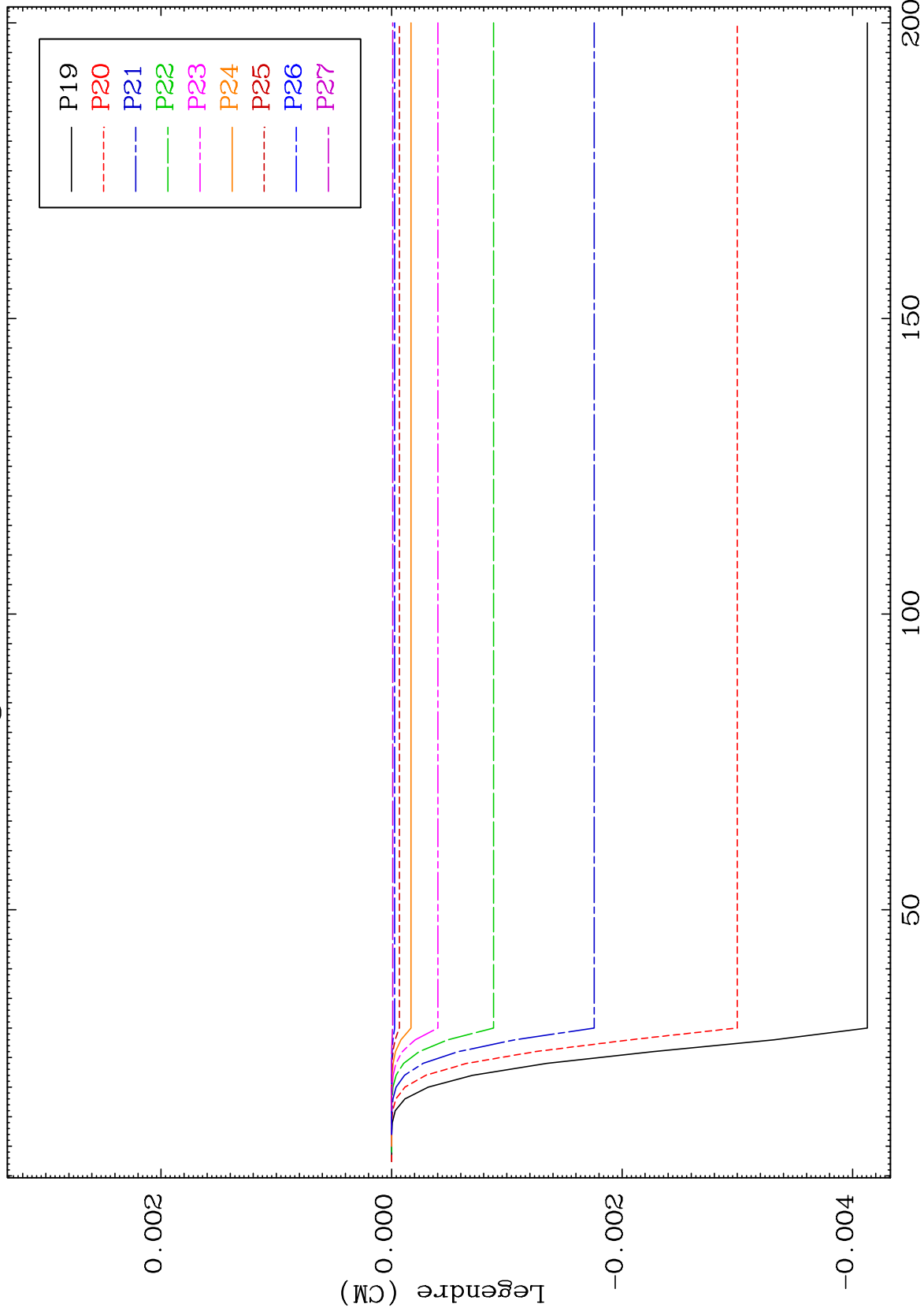
Incident Energy (MeV)

62-Sm-142

MAT 6219

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

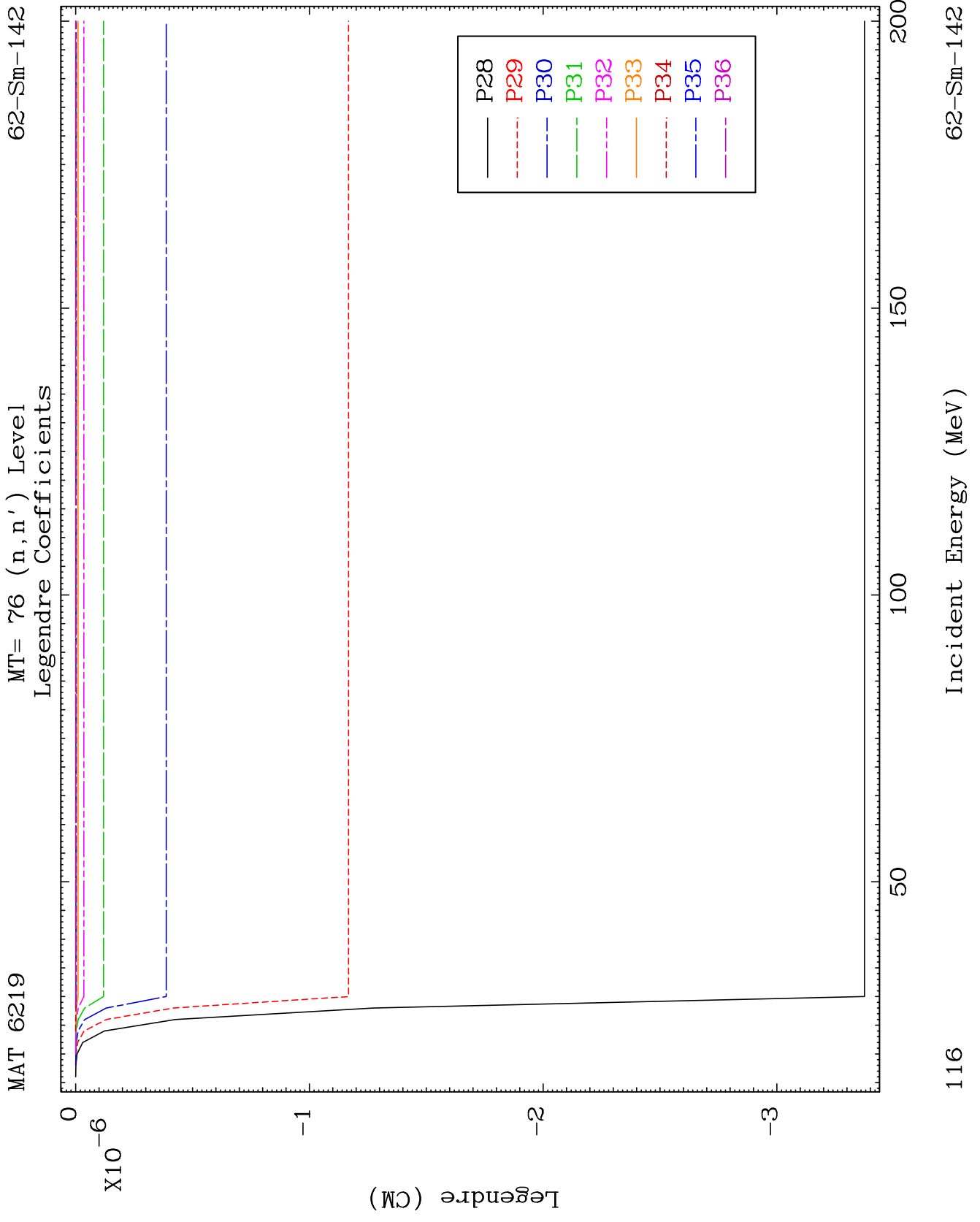
62-Sm-142

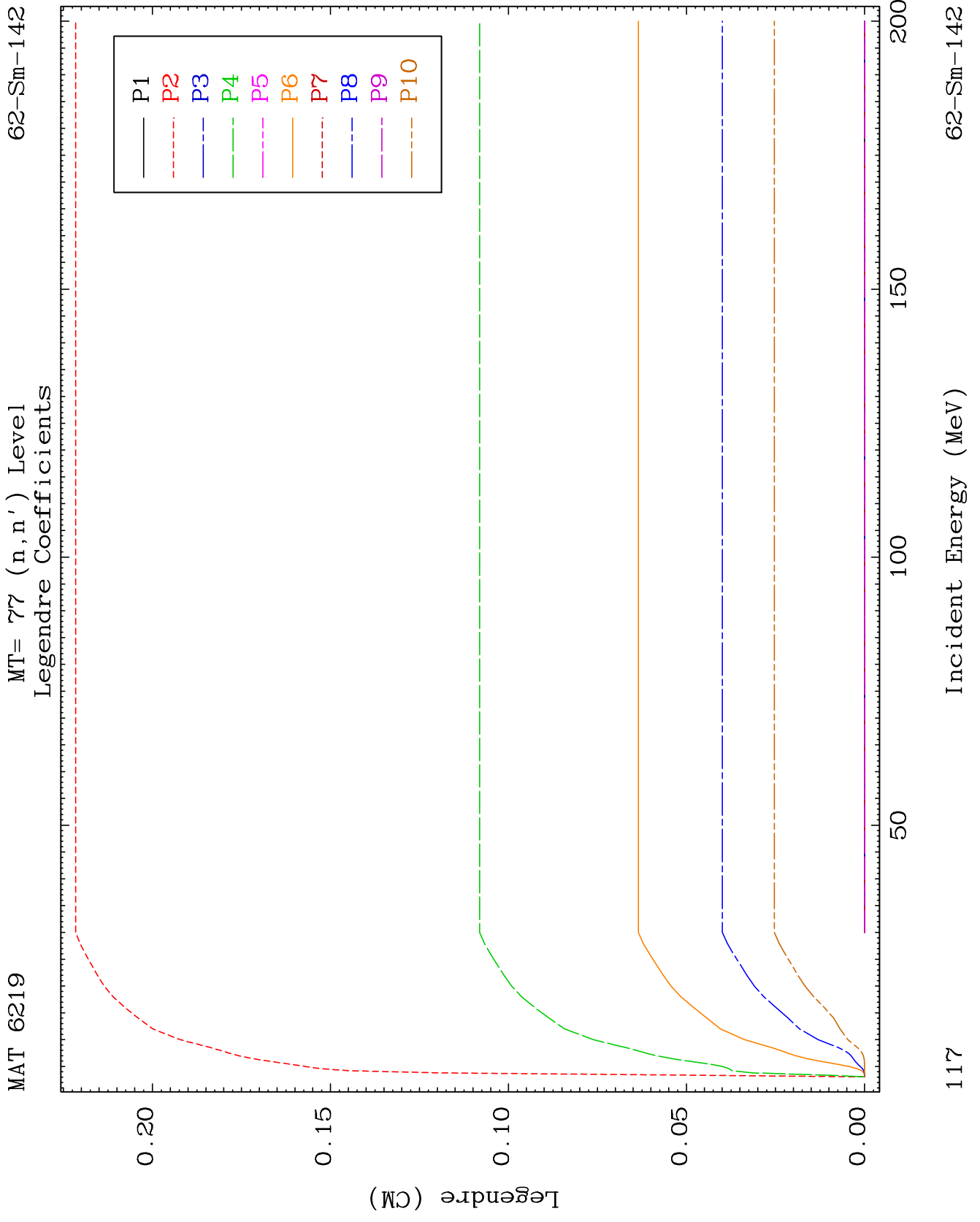


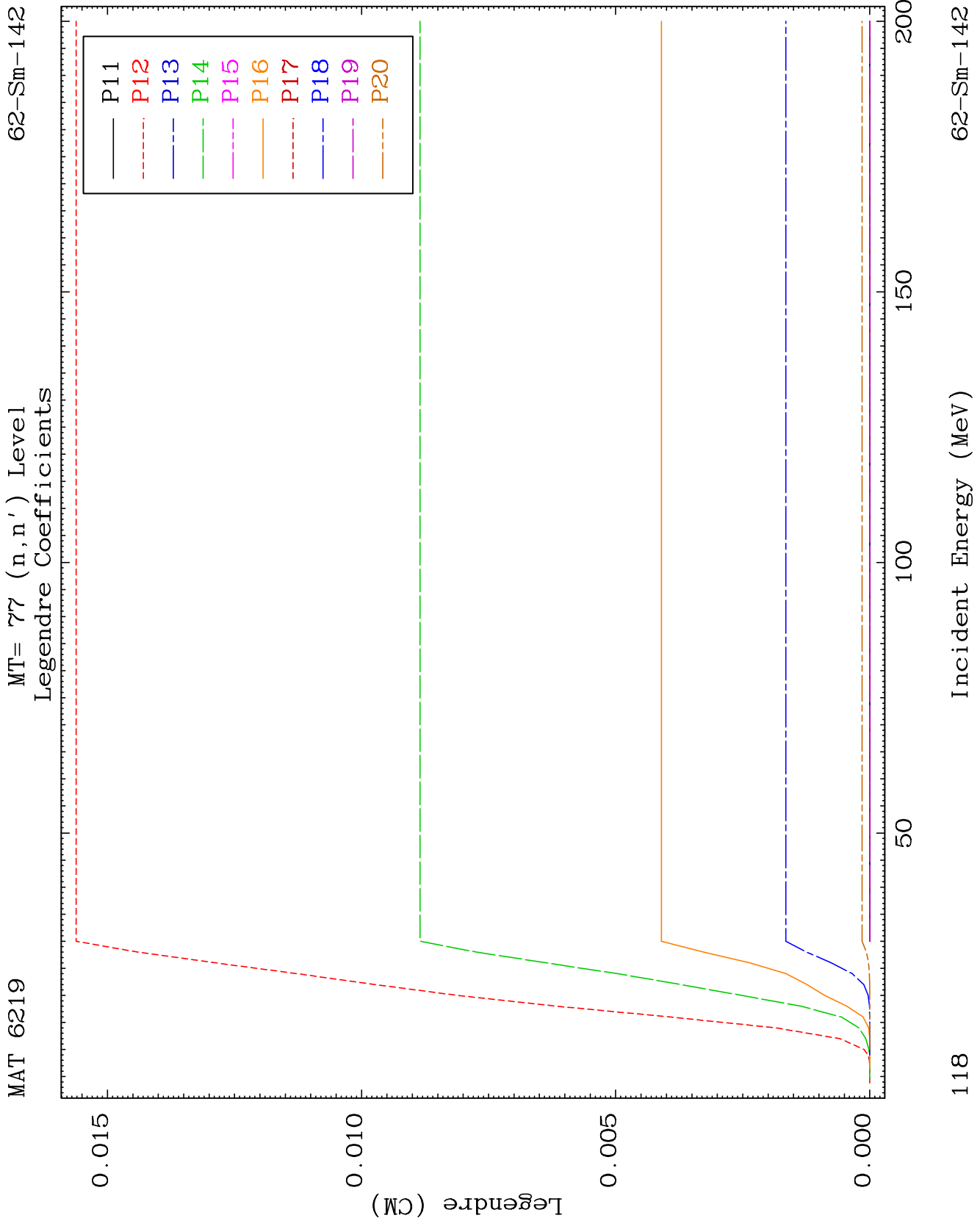
115

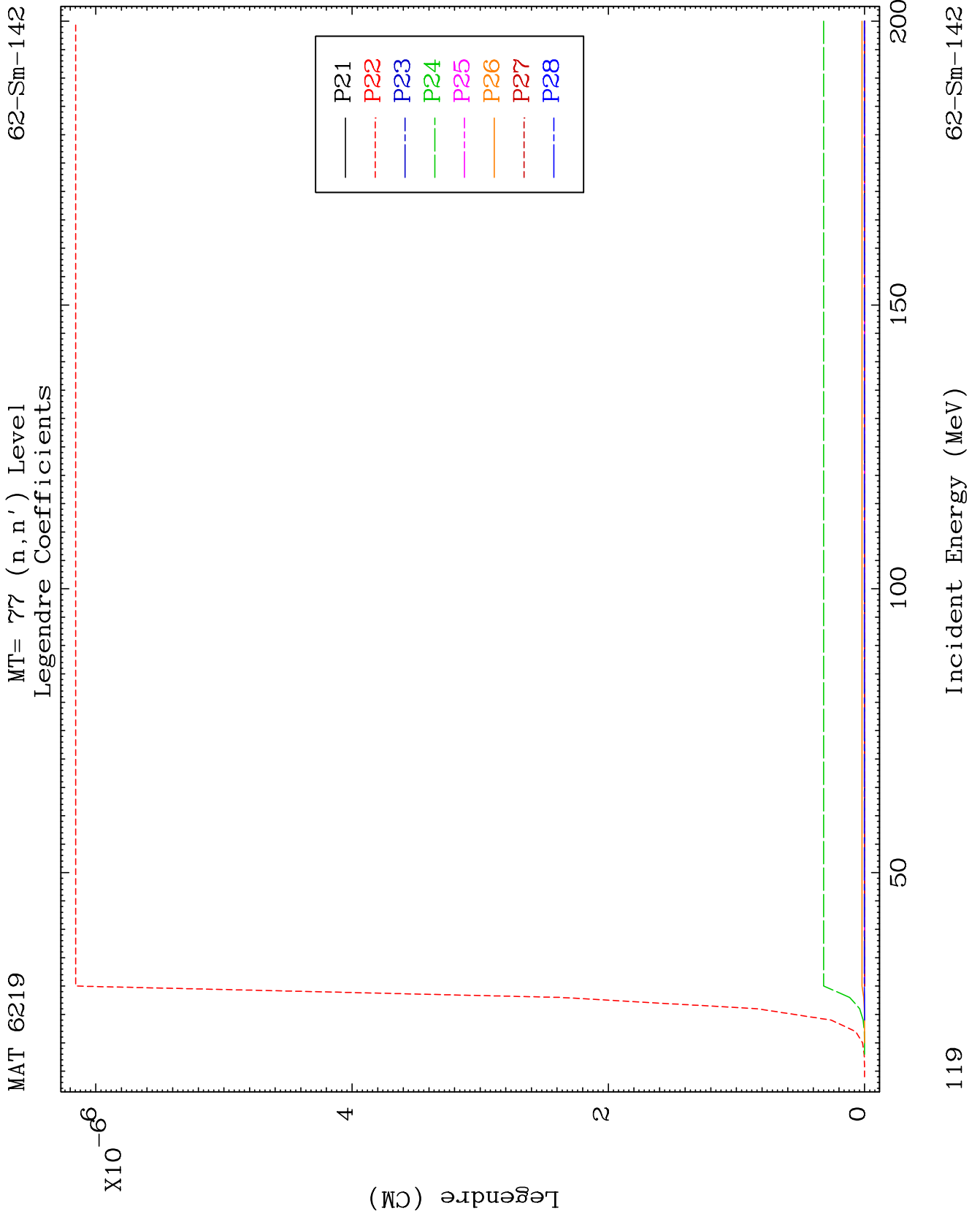
Incident Energy (MeV)

62-Sm-142









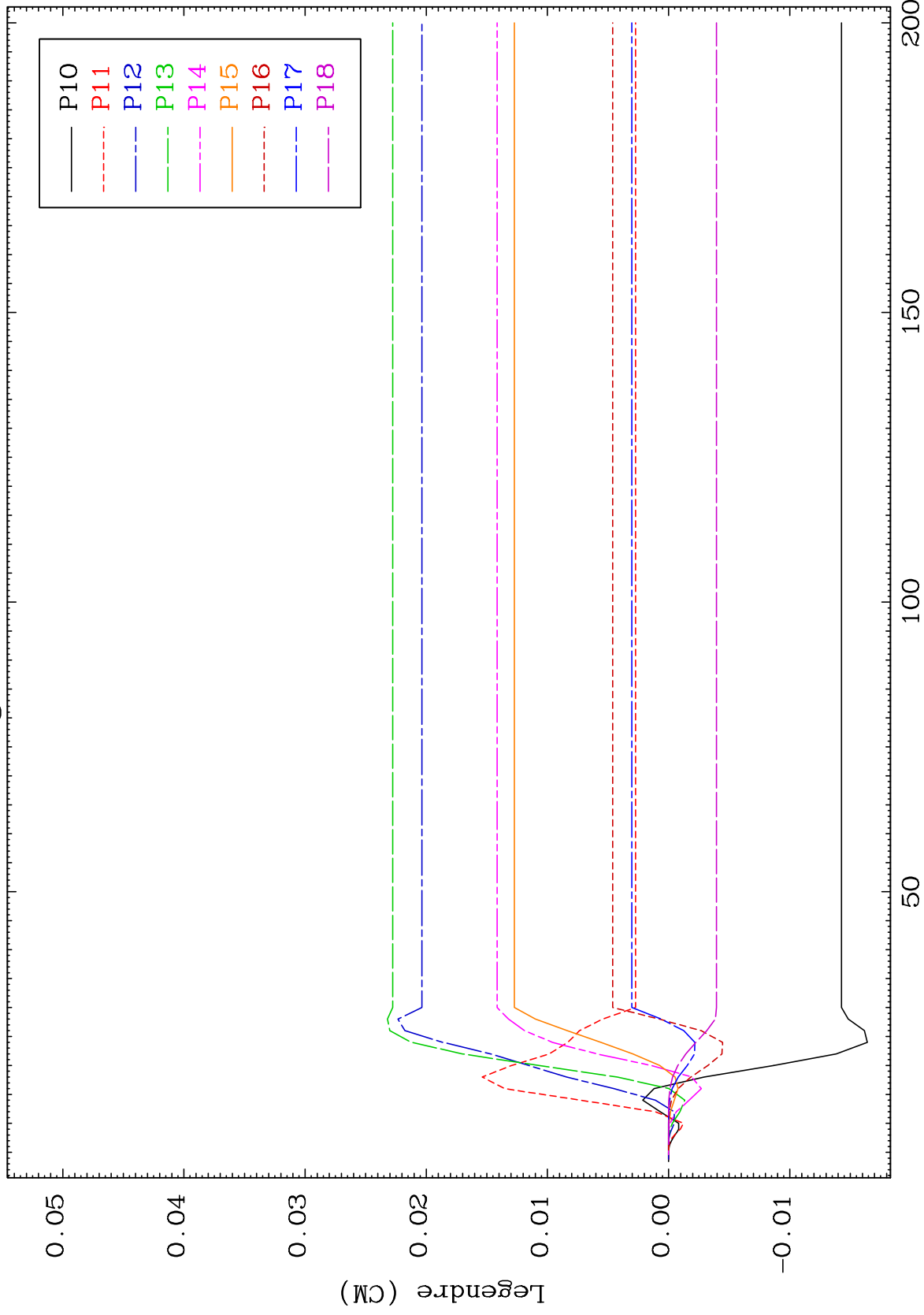




MAT 6219

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

62-Sm-142



121

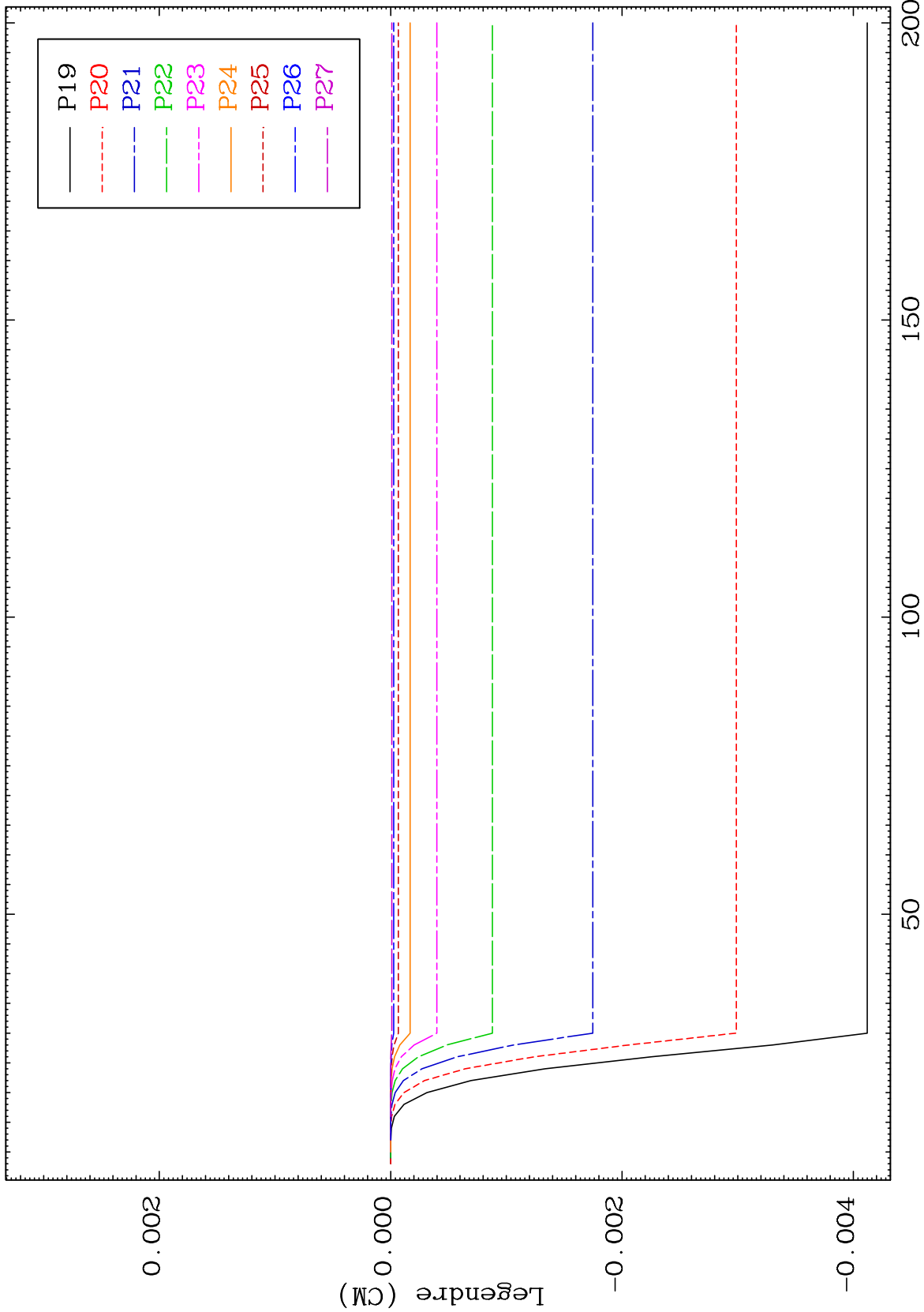
Incident Energy (MeV)

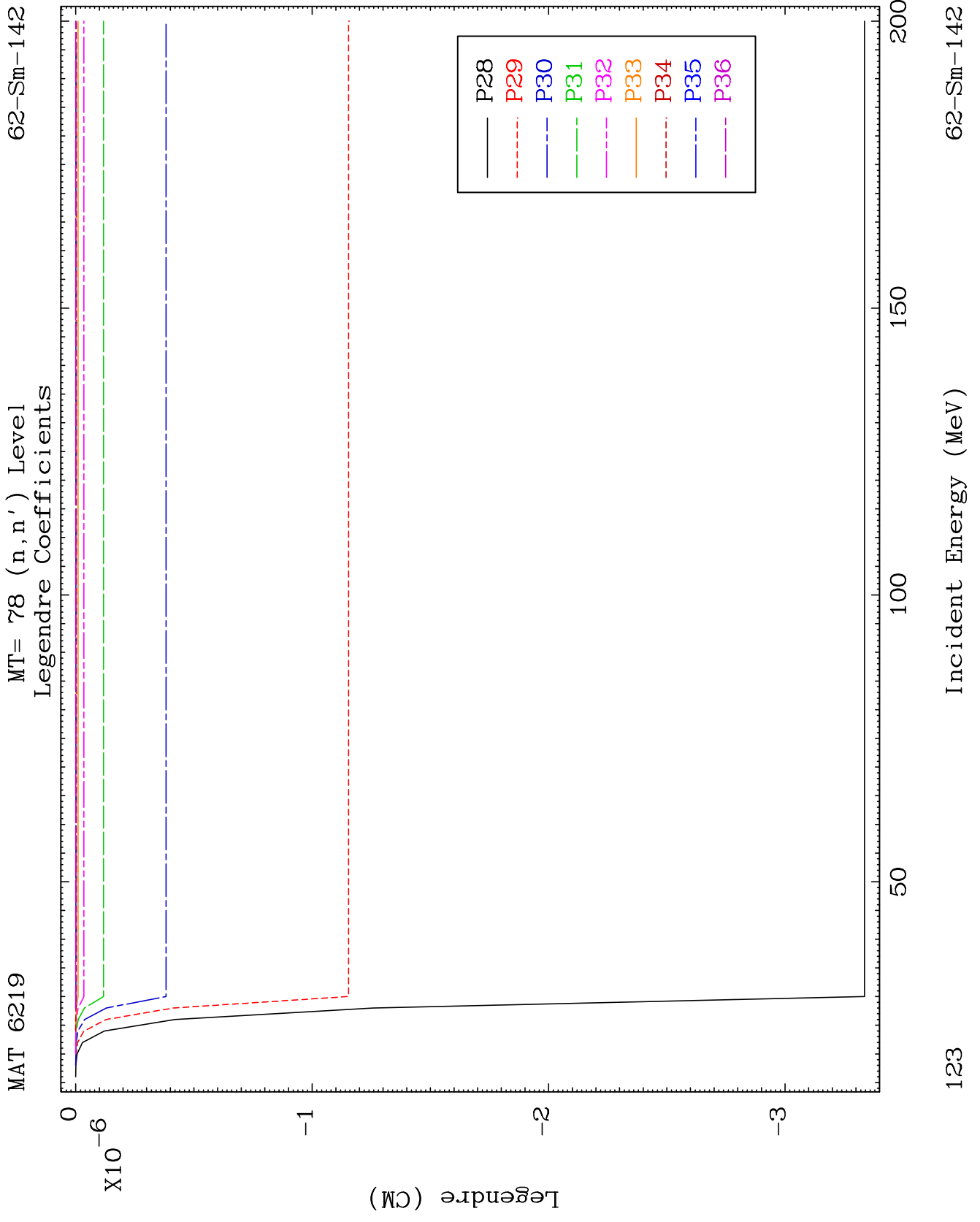
62-Sm-142

MAT 6219

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

62-Sm-142



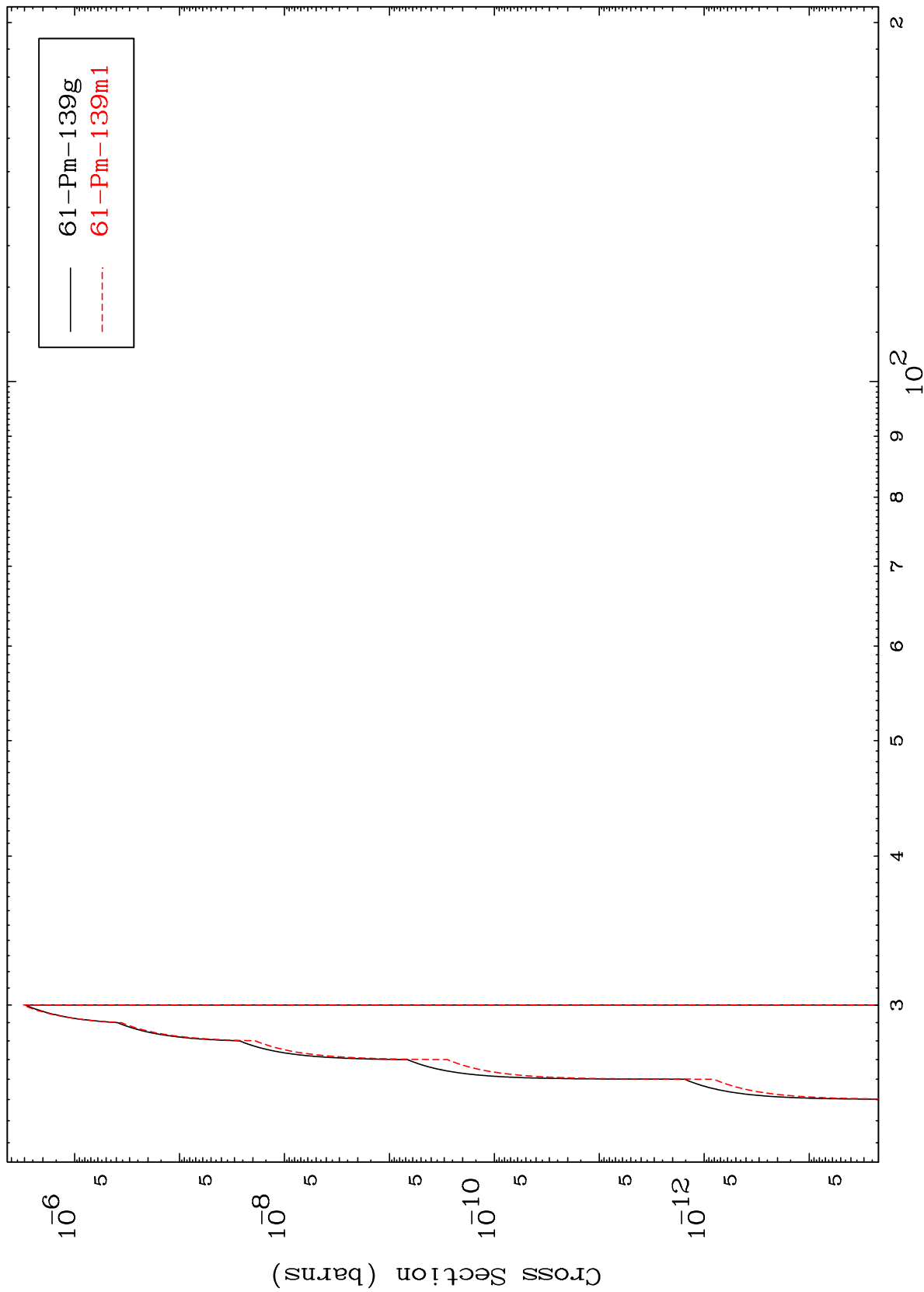


MAT 6219

(n,2n) d

62-Sm-142

Radionuclide Production Cross Section



124

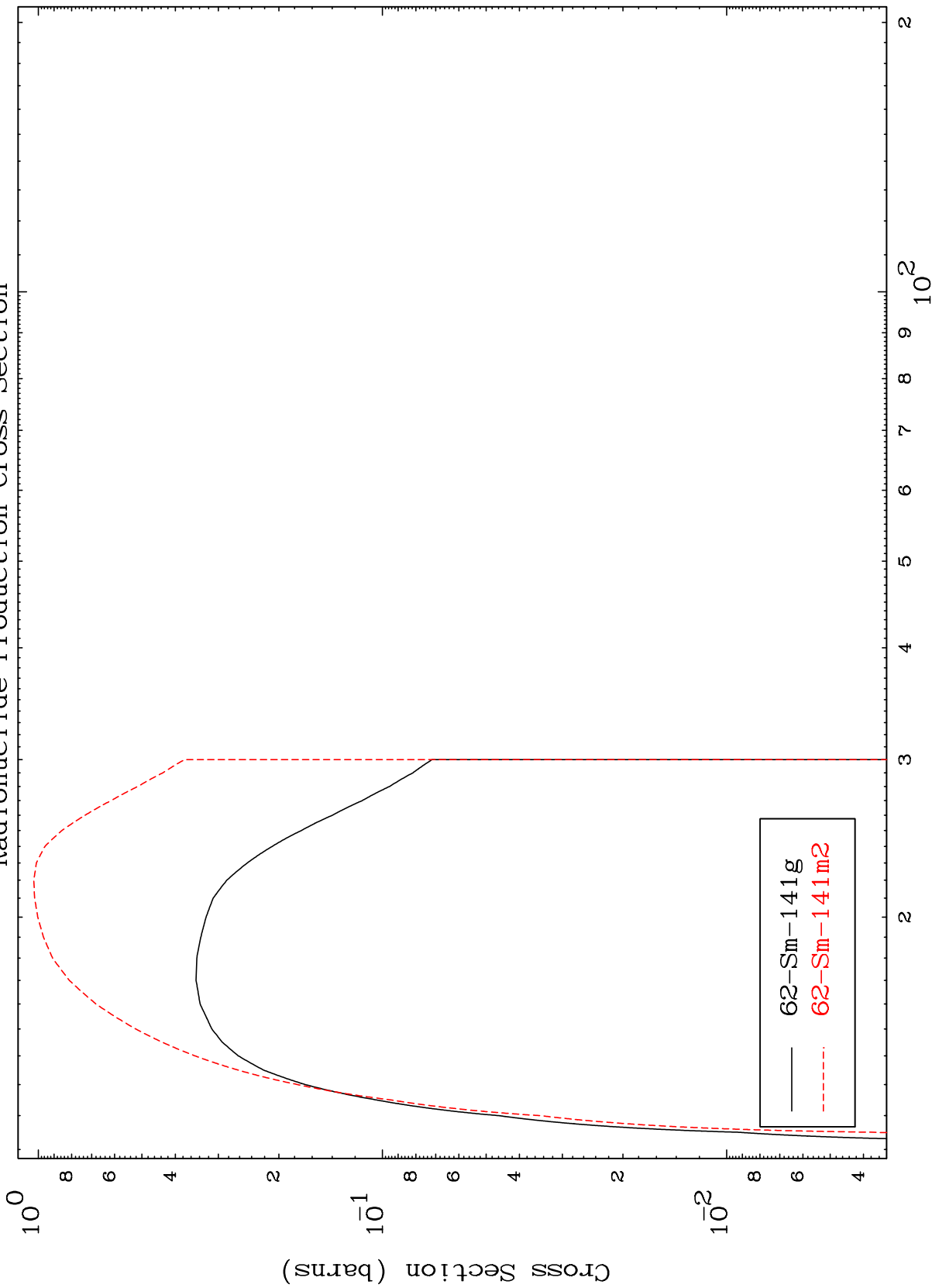
Incident Energy (MeV)

62-Sm-142

MAT 6219

62-Sm-142

(n,2n)  
Radionuclide Production Cross Section



125

Incident Energy (MeV)

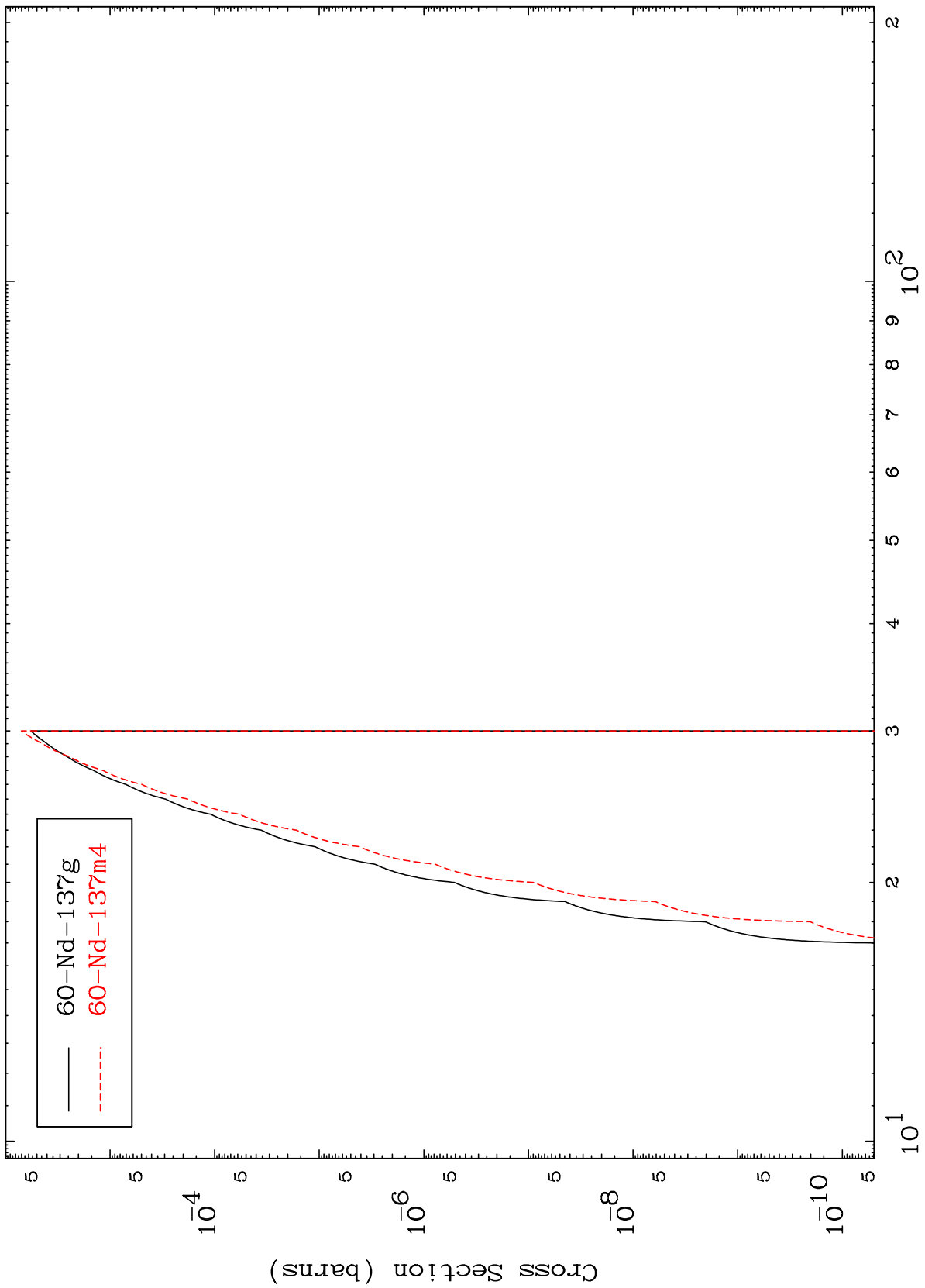
62-Sm-142

MAT 6219

(n,2n)  $\alpha$

62-Sm-142

Radionuclide Production Cross Section



126

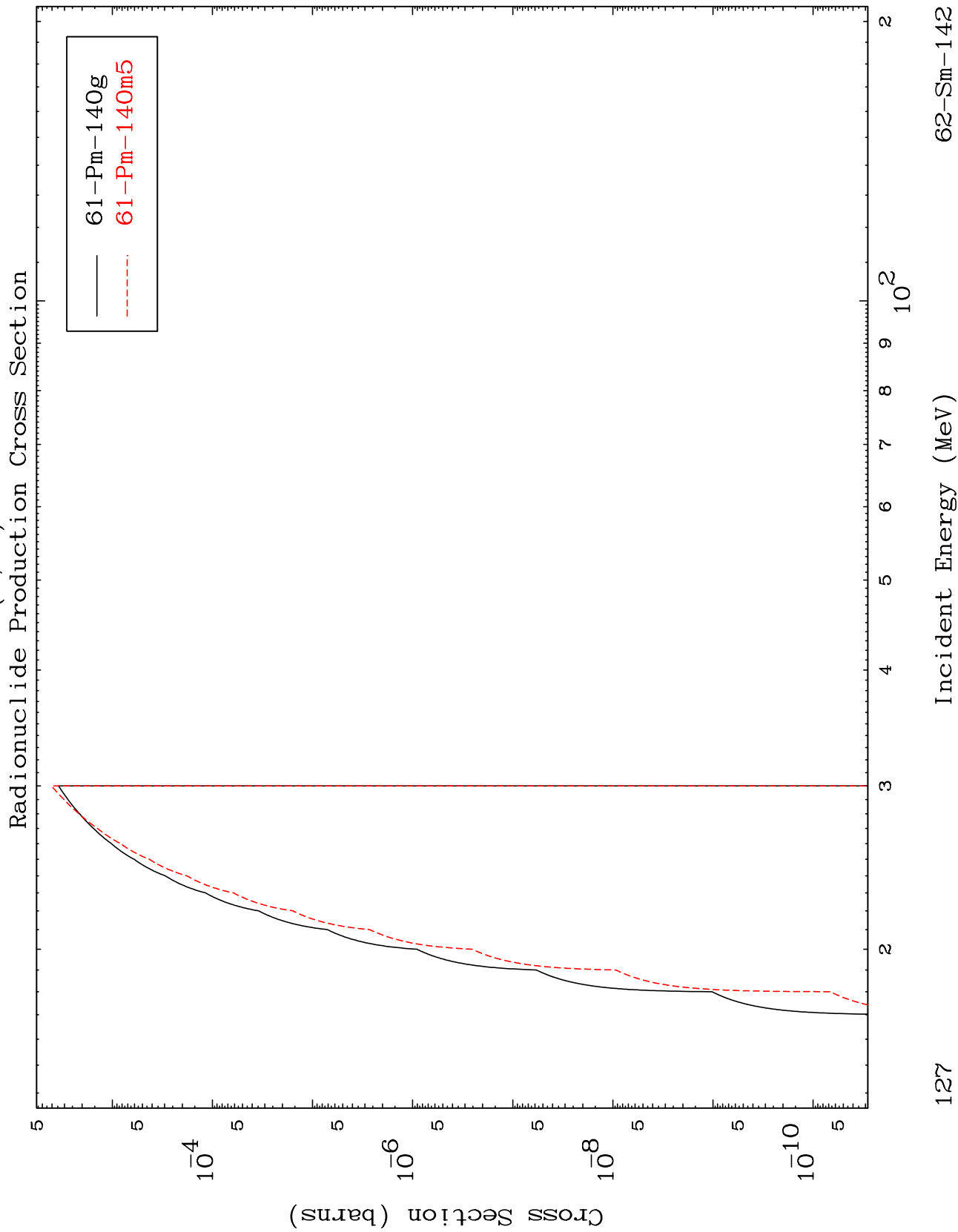
Incident Energy (MeV)

62-Sm-142

MAT 6219

(n,n') d

62-Sm-142

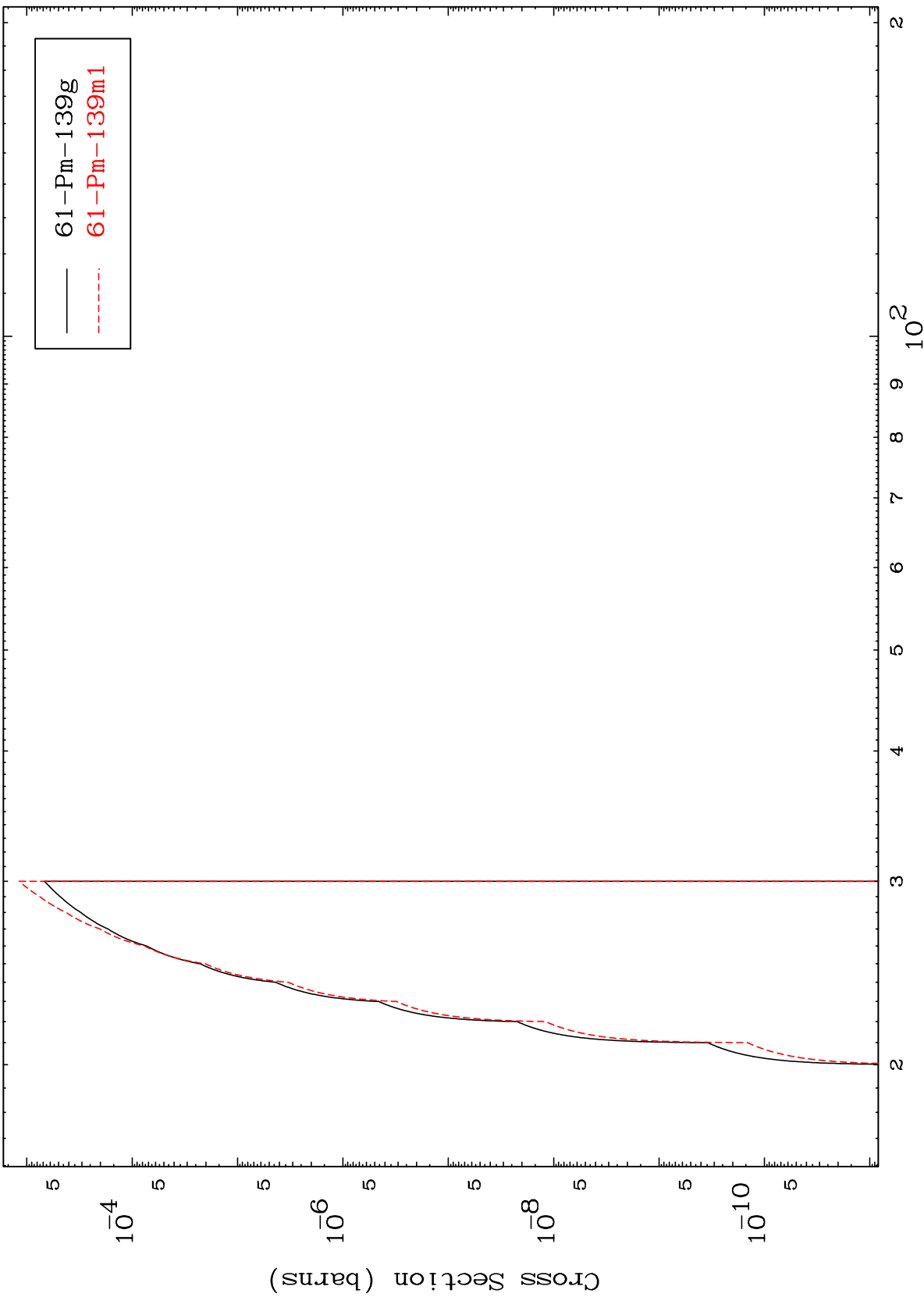


127

62-Sm-142



Radionuclide Production Cross Section

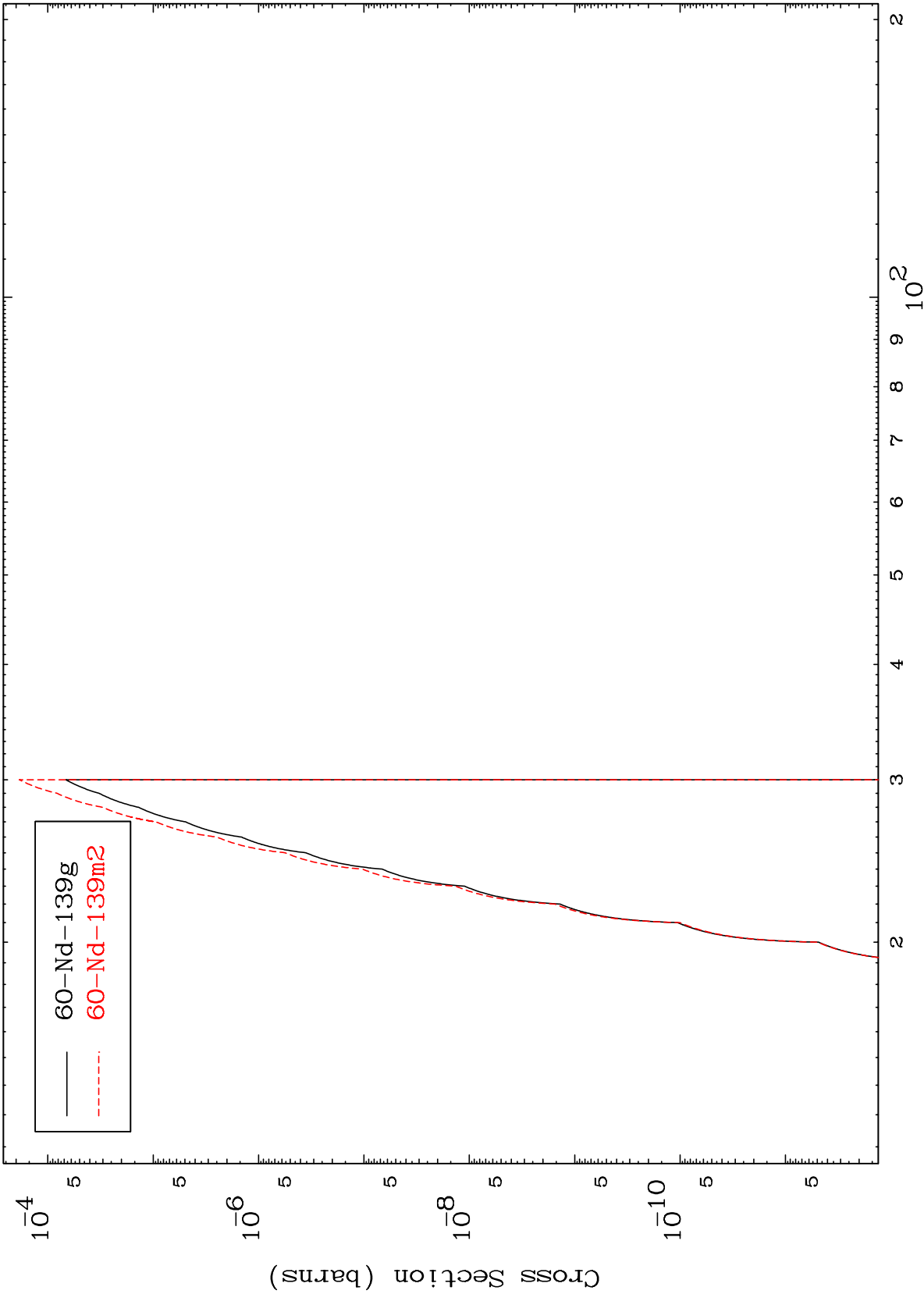


MAT 6219

(n,n') He-3

62-Sm-142

Radionuclide Production Cross Section



129

Incident Energy (MeV)

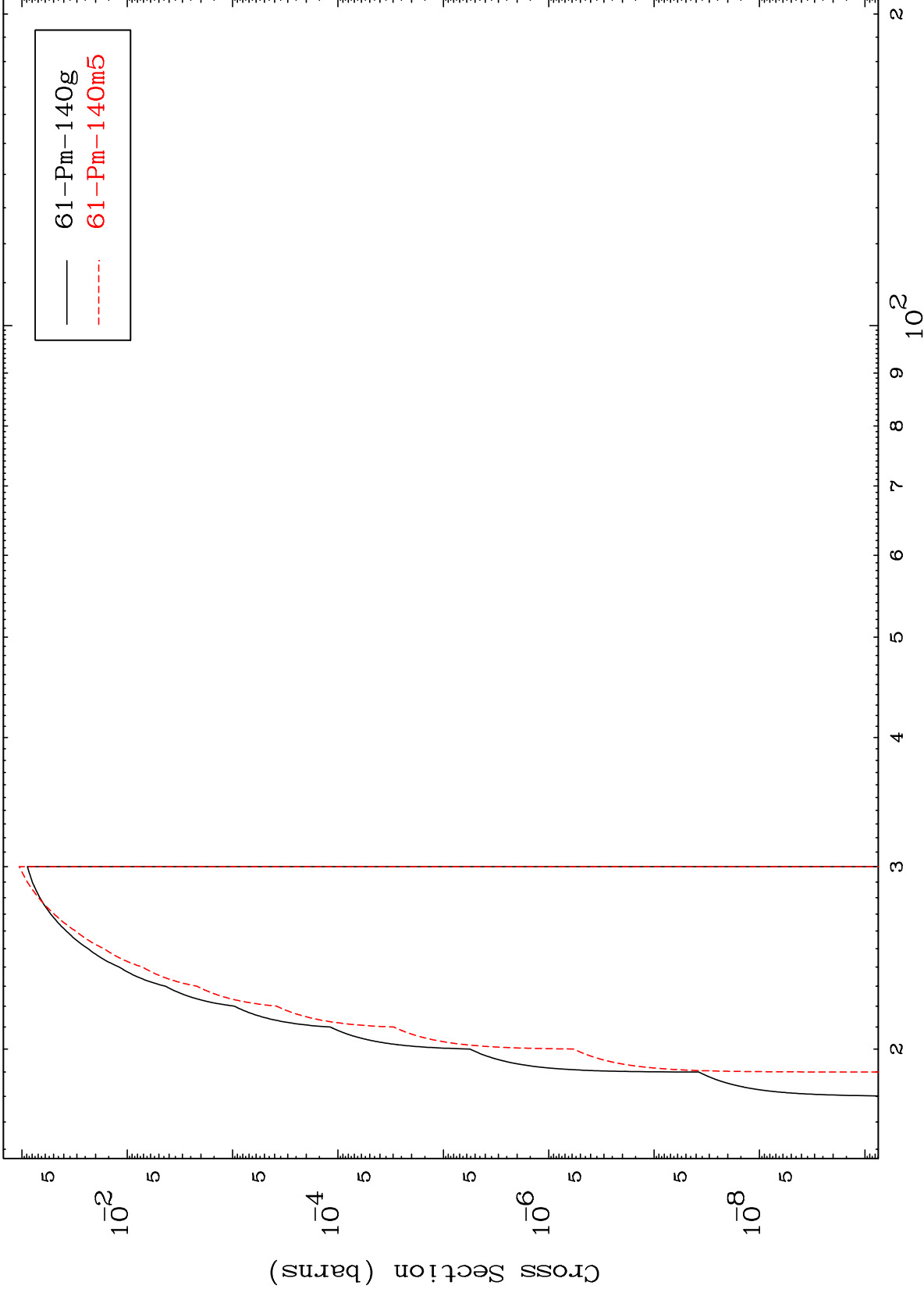
62-Sm-142

MAT 6219

(n,2n) p

62-Sm-142

Radionuclide Production Cross Section



61-Pm-140g  
61-Pm-140m5

130

Incident Energy (MeV)

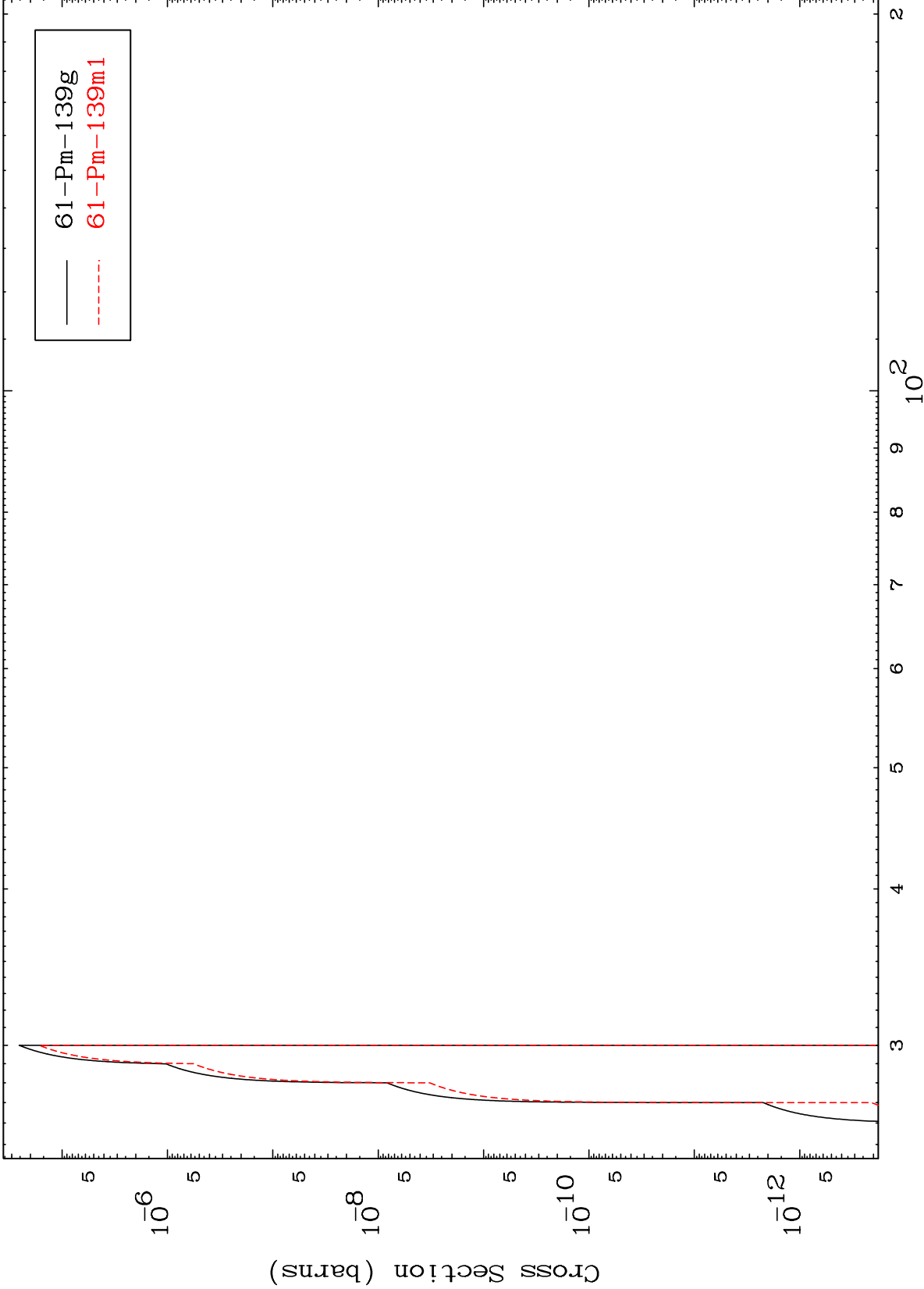
62-Sm-142

MAT 6219

(n,3n) p

62-Sm-142

Radionuclide Production Cross Section



61-Pm-139g  
61-Pm-139m1

131

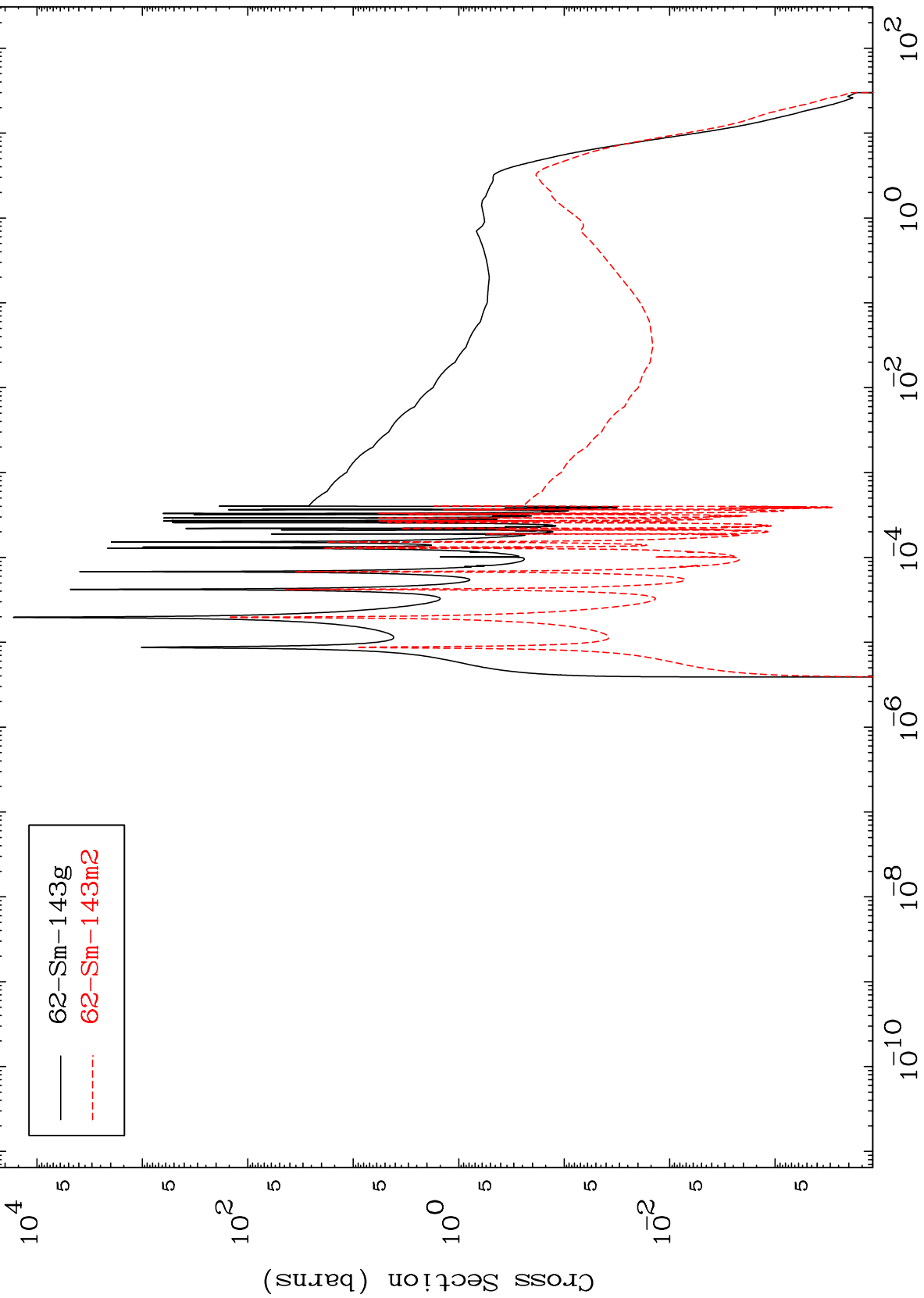
Incident Energy (MeV)

62-Sm-142

MAT 6219

62-Sm-142

(n,γ)  
Radionuclide Production Cross Section



62-Sm-142

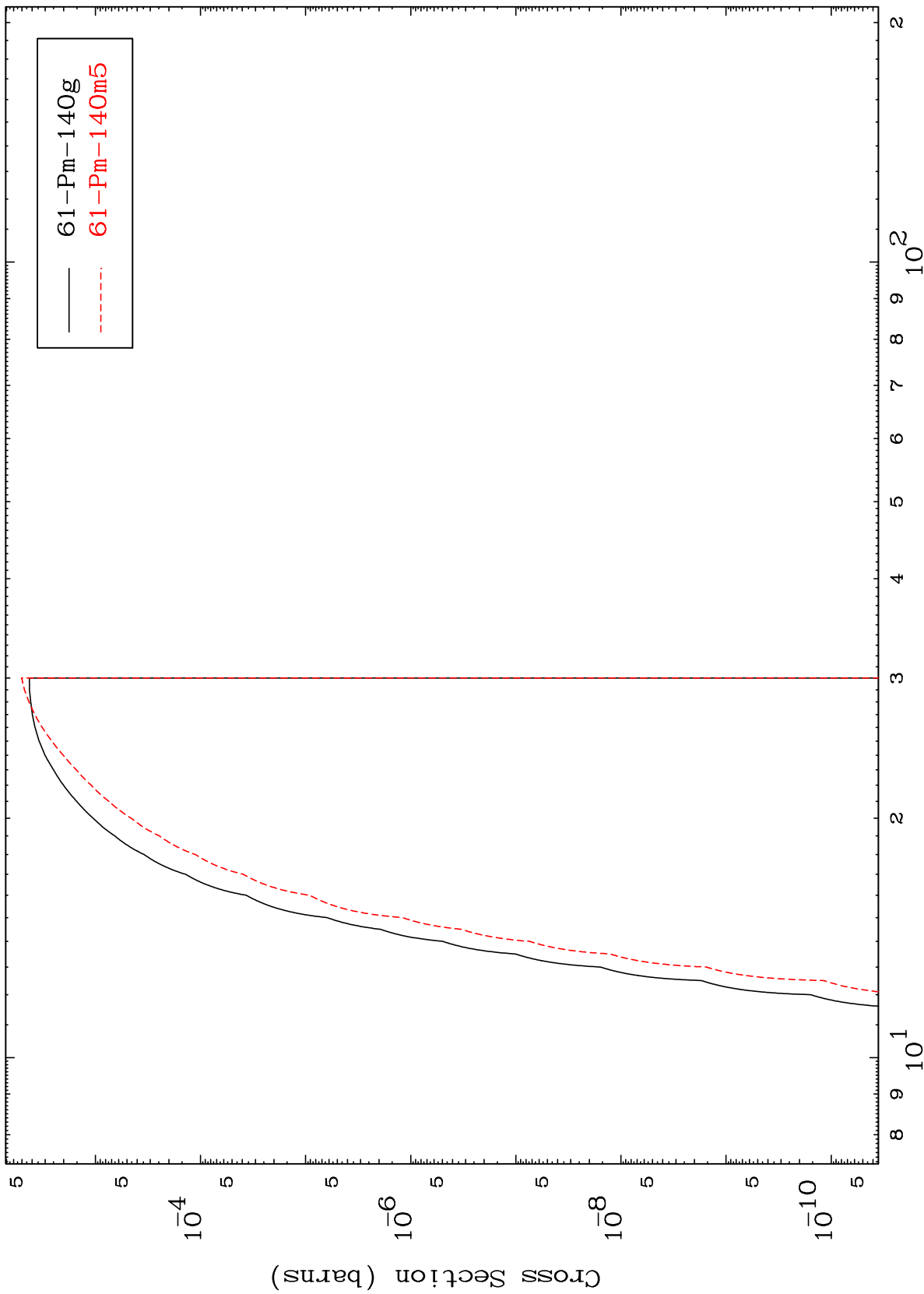
Incident Energy (MeV)

132

MAT 6219

62-Sm-142

(n,t)  
Radionuclide Production Cross Section



133

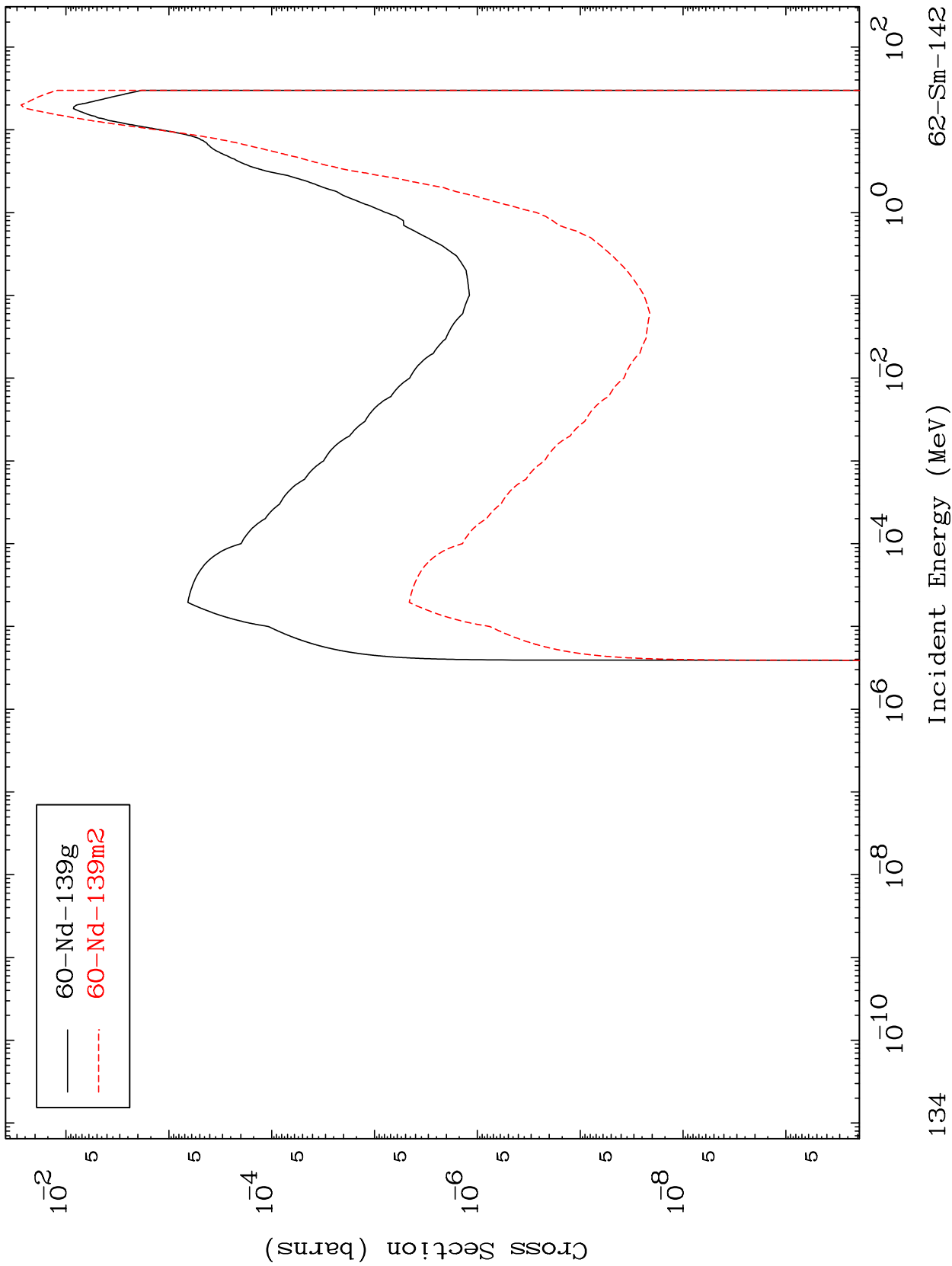
Incident Energy (MeV)

62-Sm-142

MAT 6219

62-Sm-142

Radionuclide Production Cross Section  
(n,  $\alpha$ )



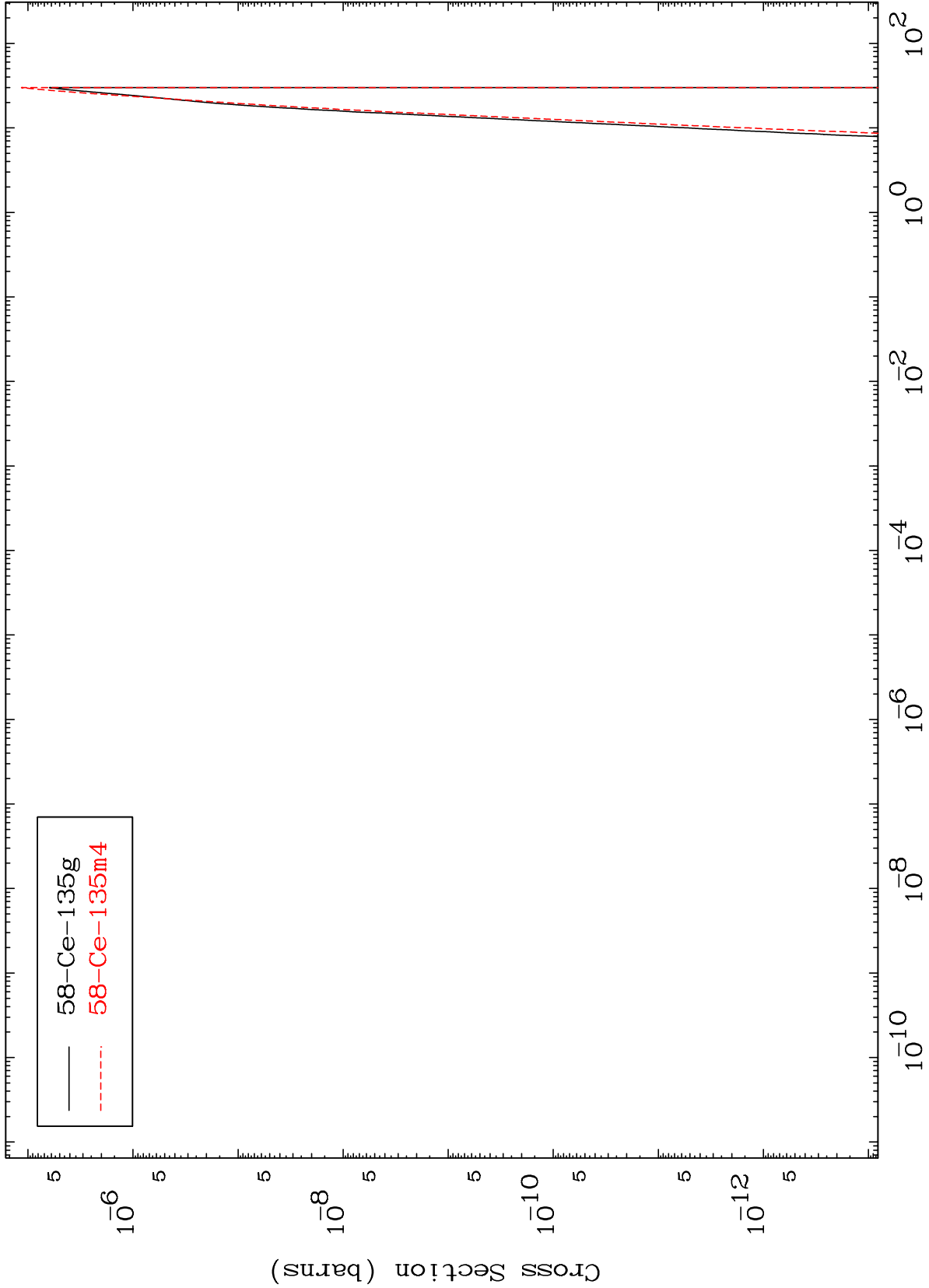
— 60-Nd-139g  
- - - 60-Nd-139m2

MAT 6219

(n,2α)

62-Sm-142

Radionuclide Production Cross Section



135

Incident Energy (MeV)

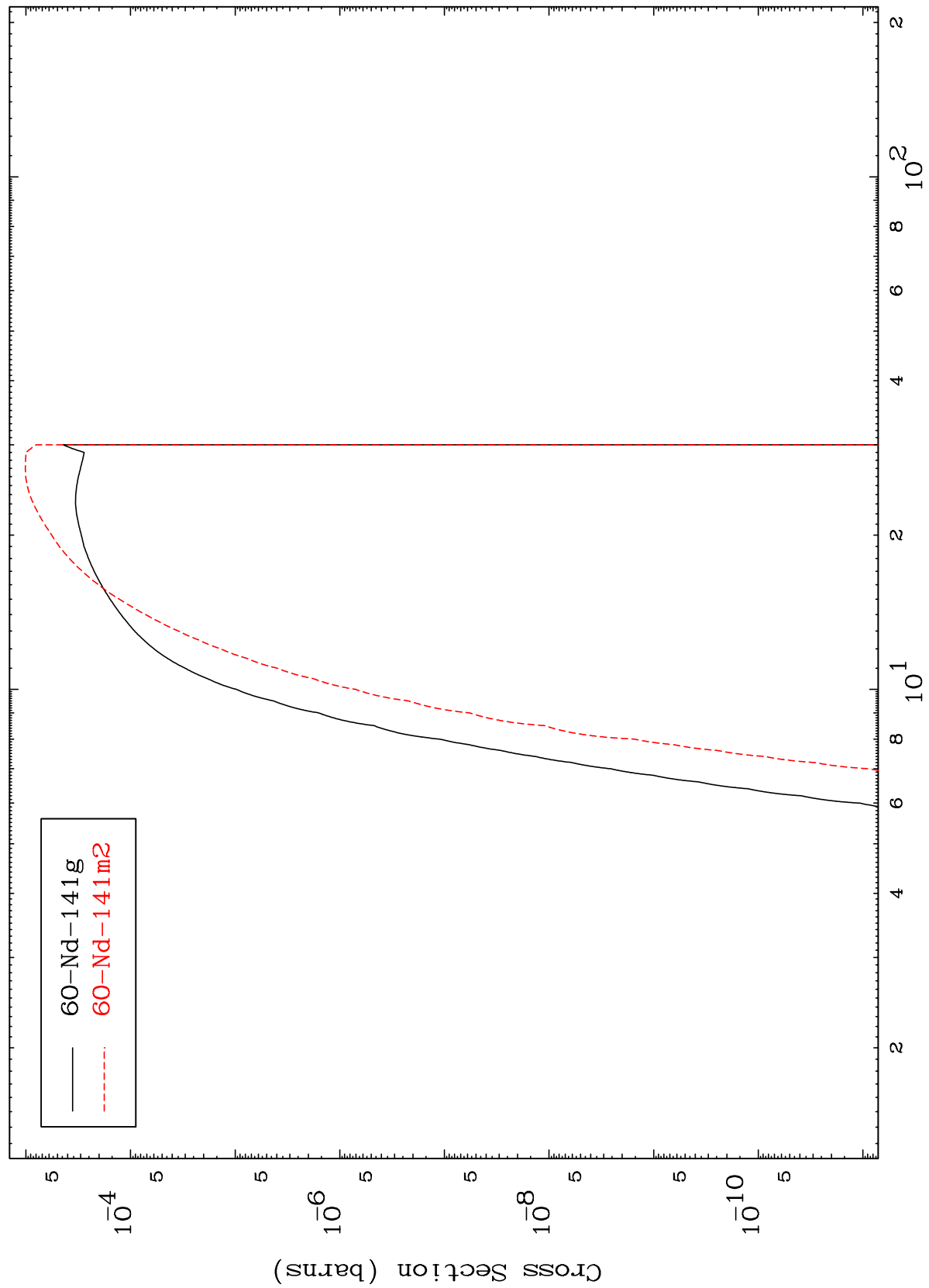
62-Sm-142



MAT 6219

62-Sm-142

(n,2p)  
Radionuclide Production Cross Section



136

62-Sm-142

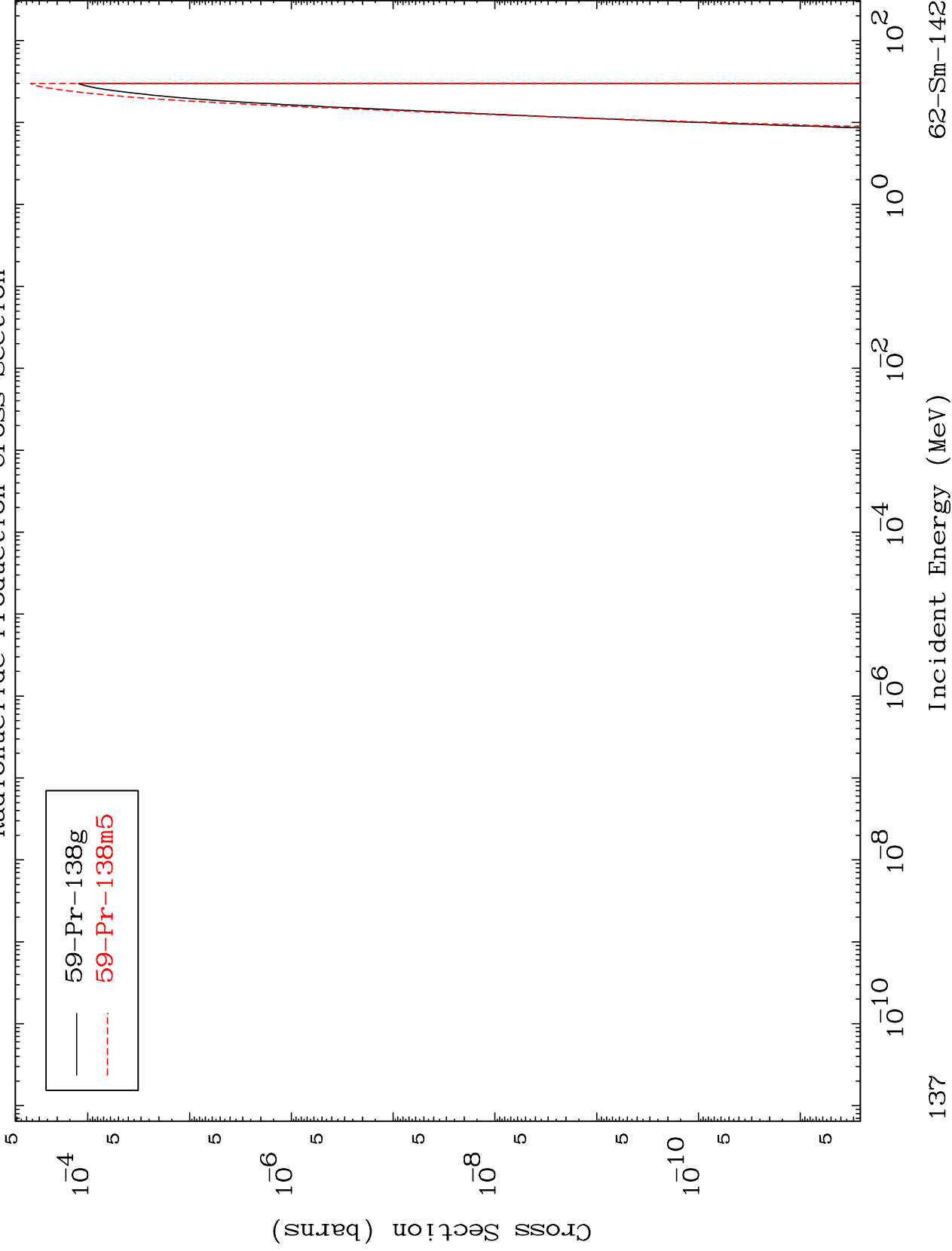
Incident Energy (MeV)

MAT 6219

(n,p)  $\alpha$

62-Sm-142

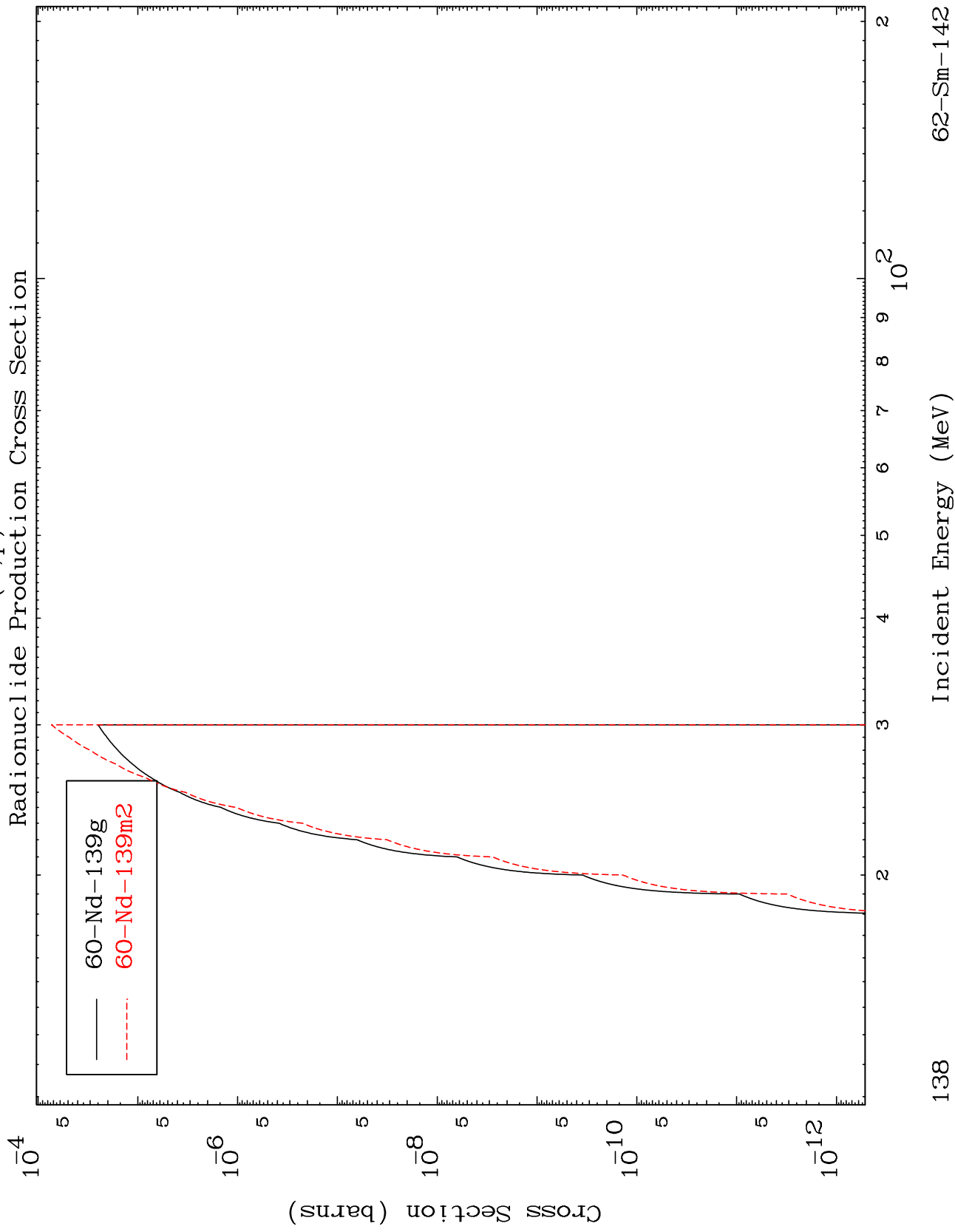
Radionuclide Production Cross Section



MAT 6219

(n,p) t

62-Sm-142



138