

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

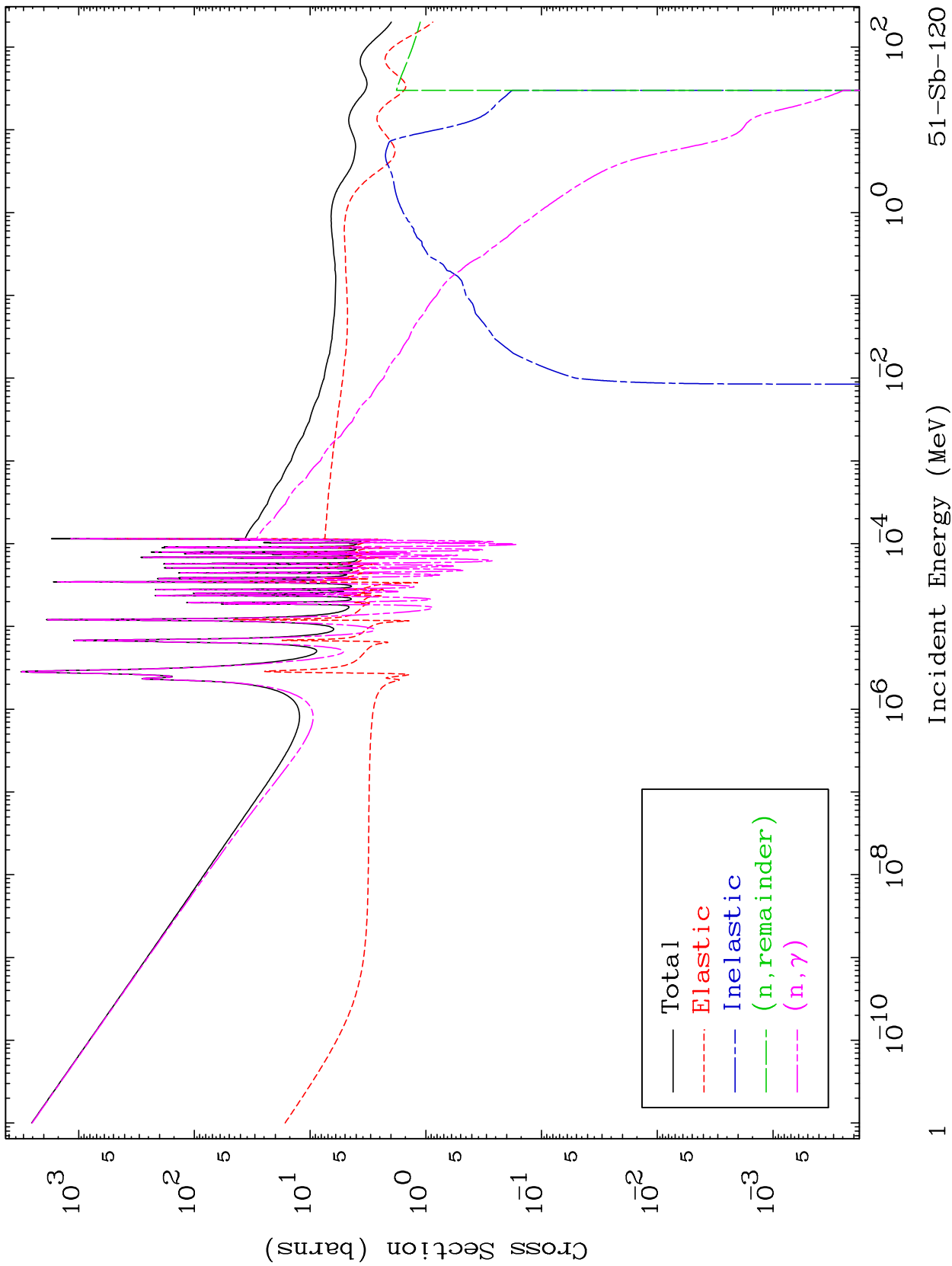
Press Mouse Button to Start

MAT 5122

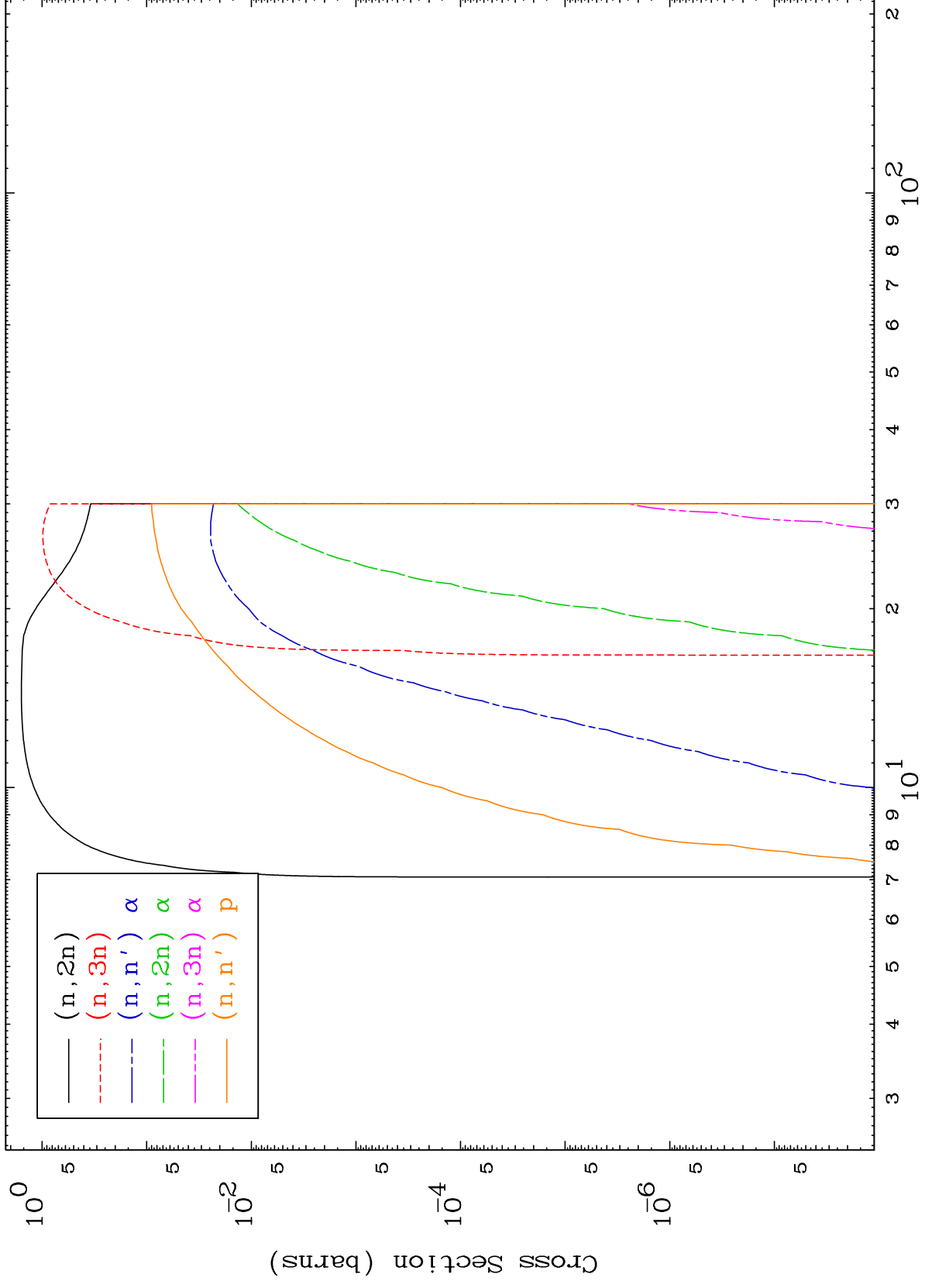
Major

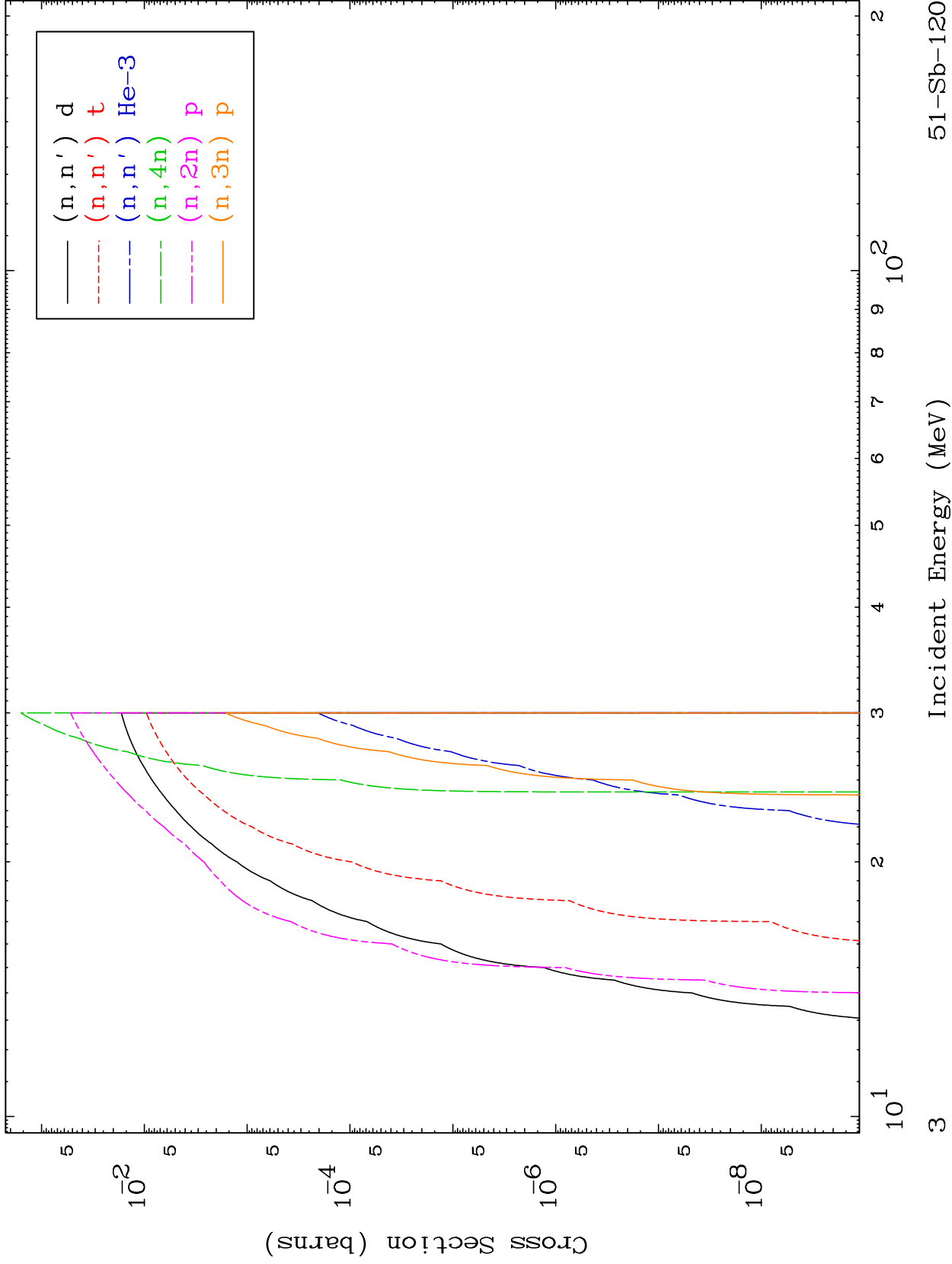
293 Kelvin Cross Sections

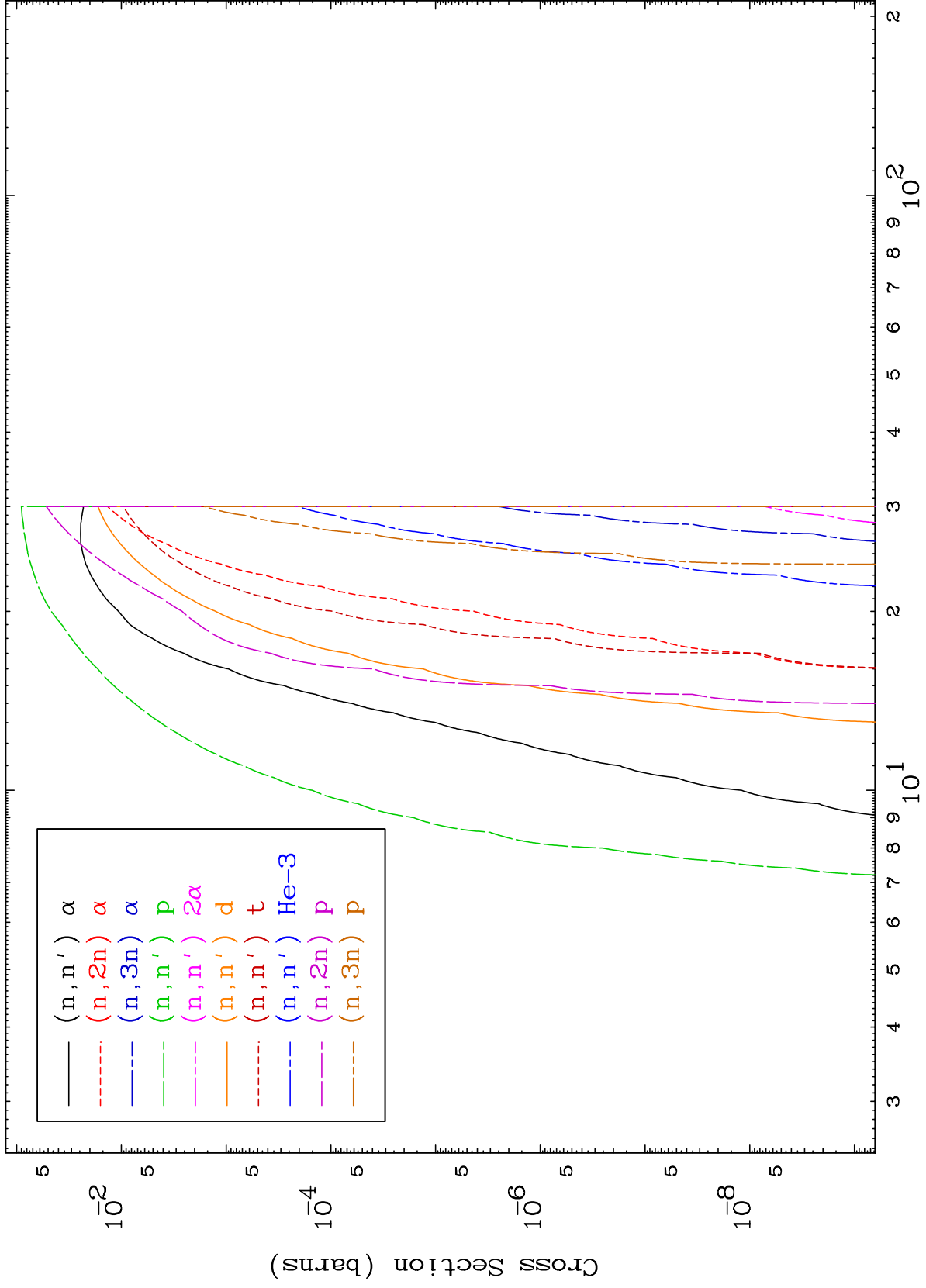
51-Sb-120



Neutron Production  
293 Kelvin Cross Sections



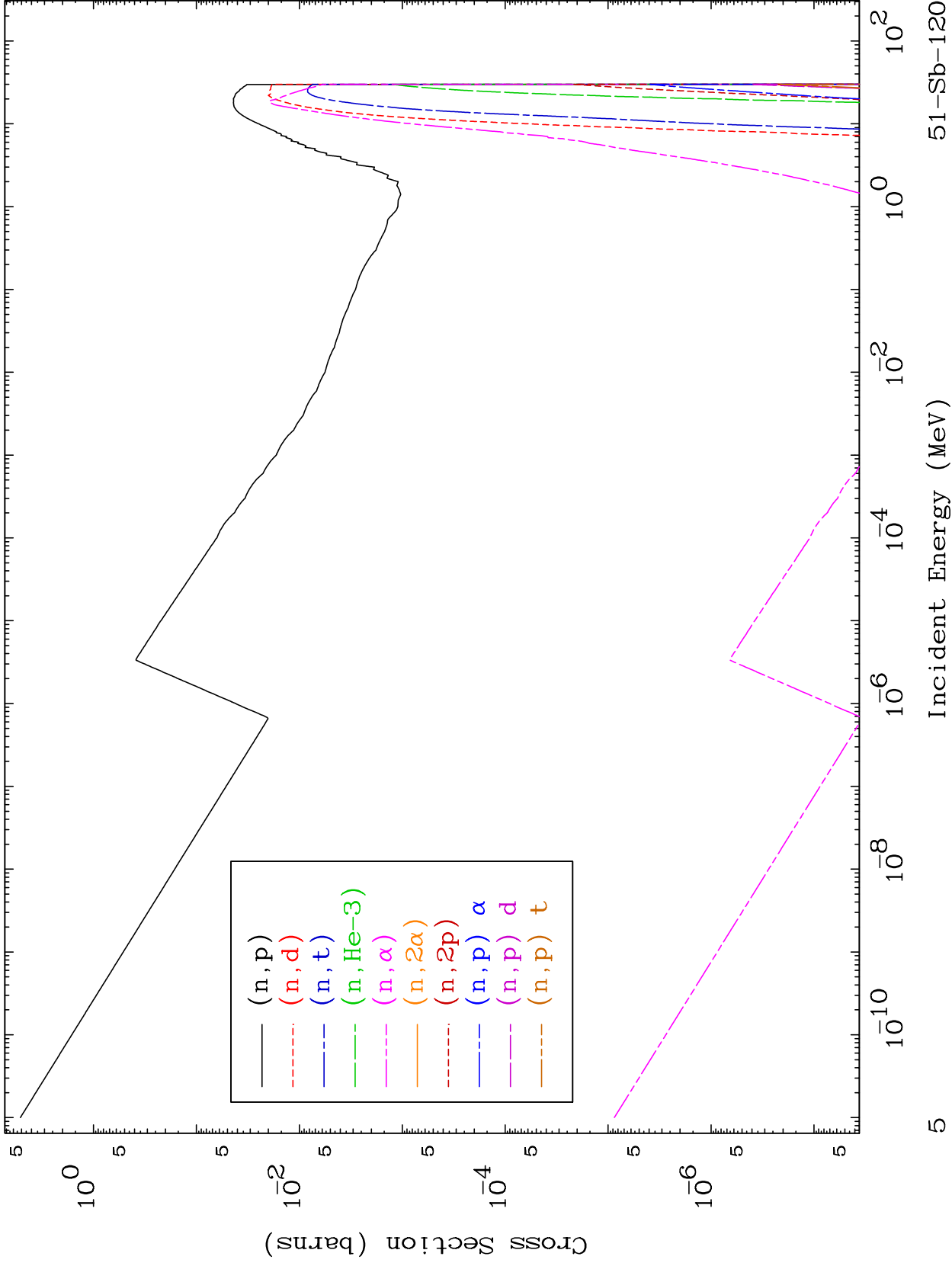




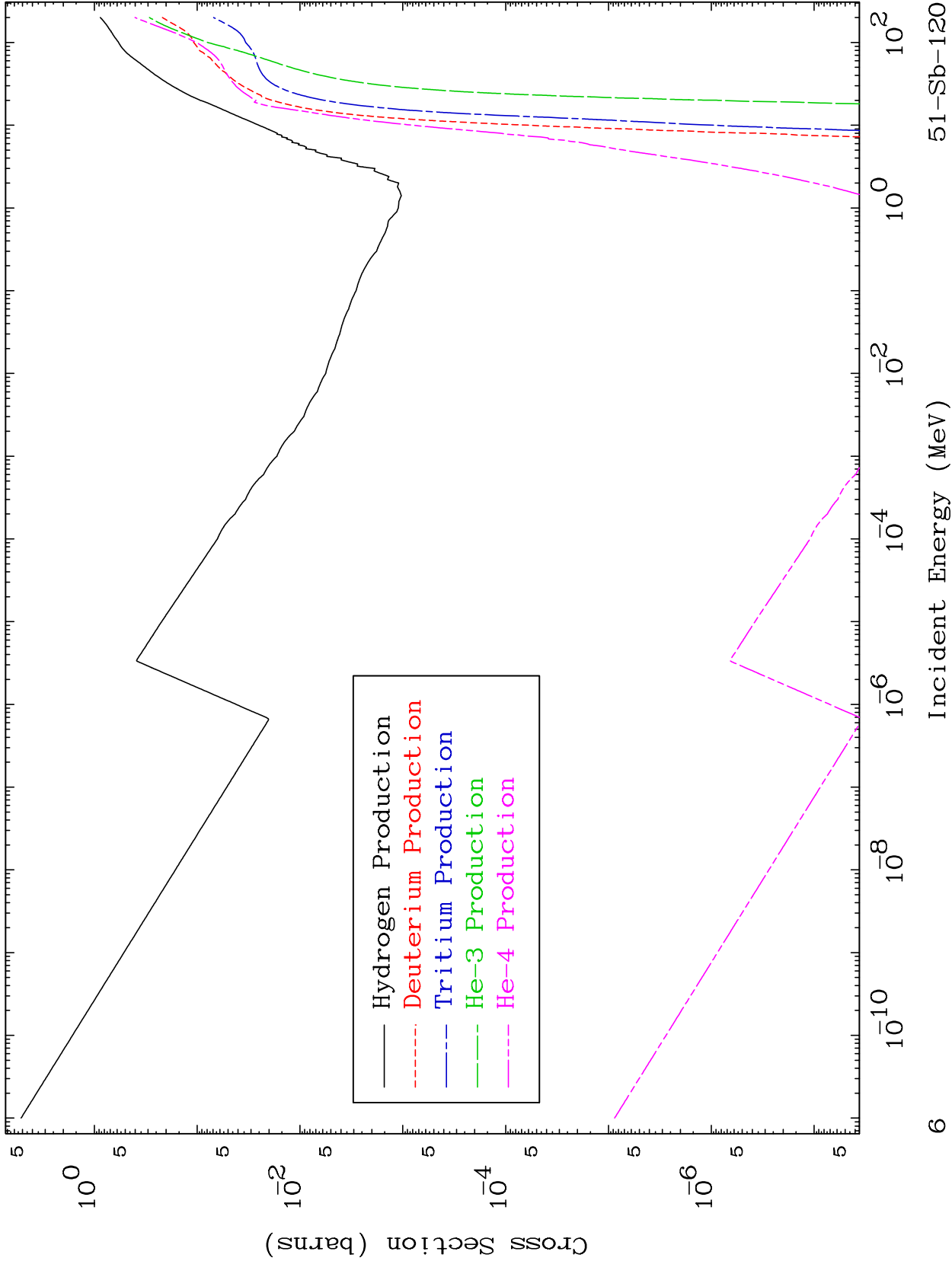
MAT 5122

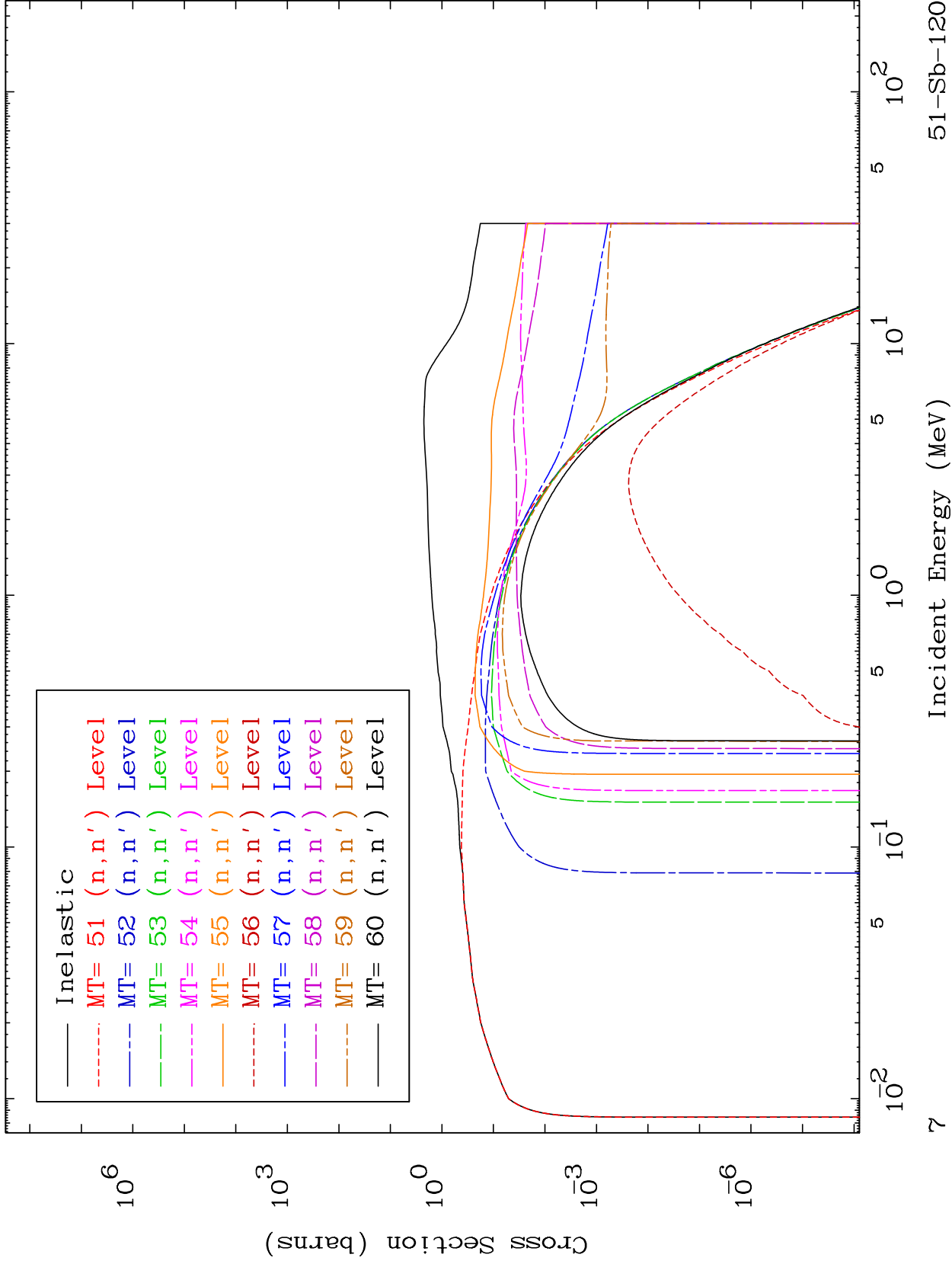
Charged Particle  
293 Kelvin Cross Sections

51-Sb-120



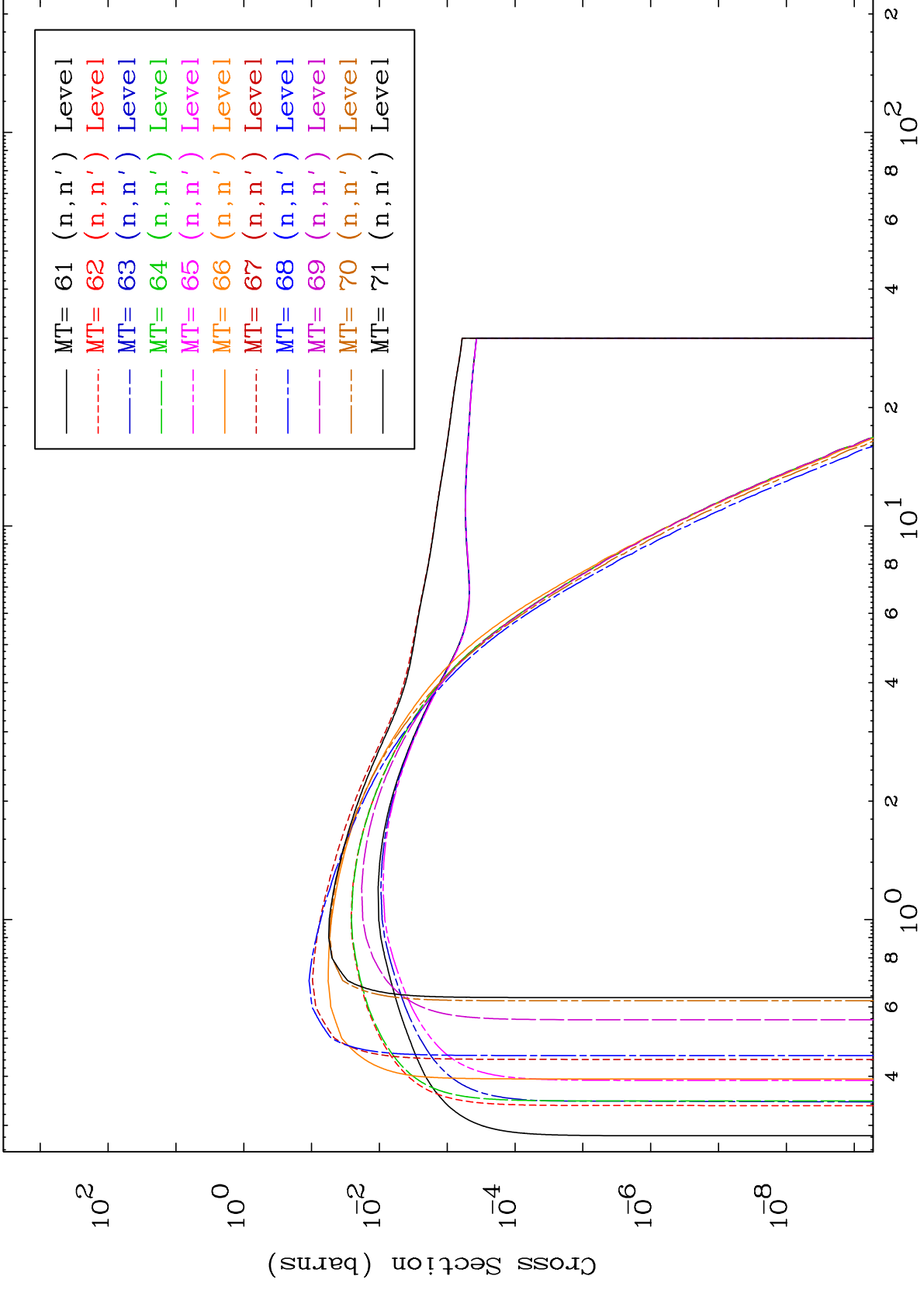
5



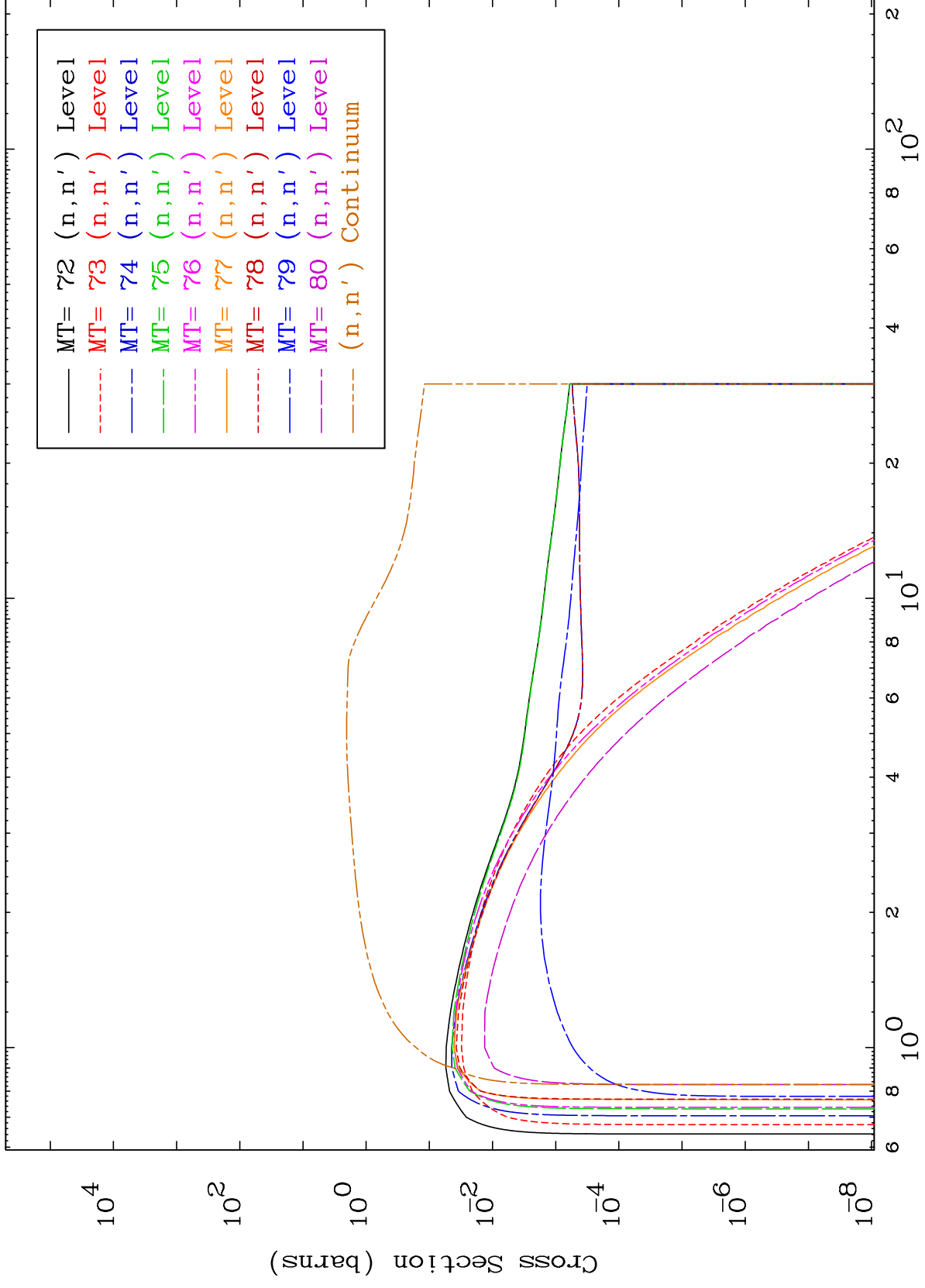




293 Kelvin Cross Sections



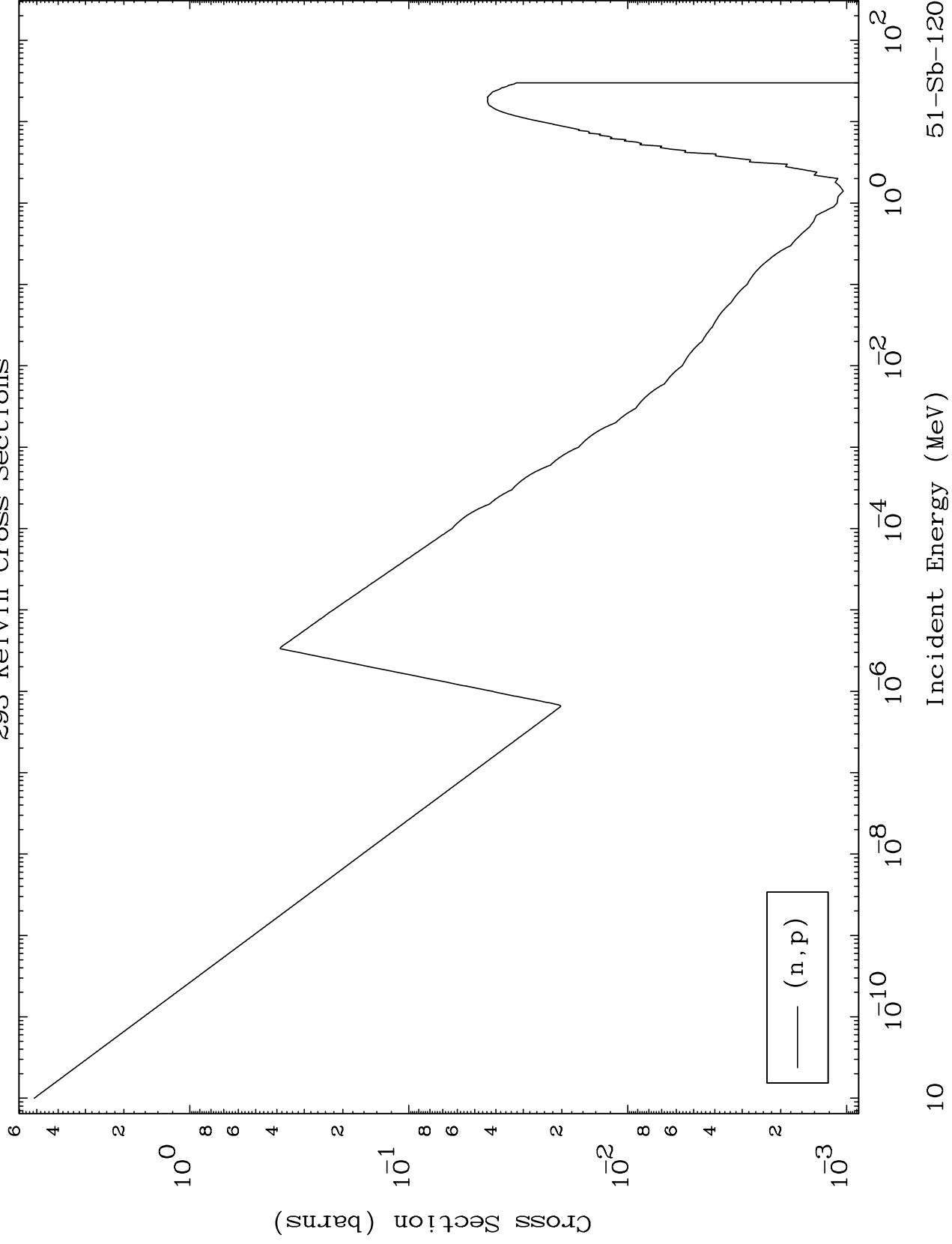
293 Kelvin Cross Sections



MAT 5122

(n,p) Levels  
293 Kelvin Cross Sections

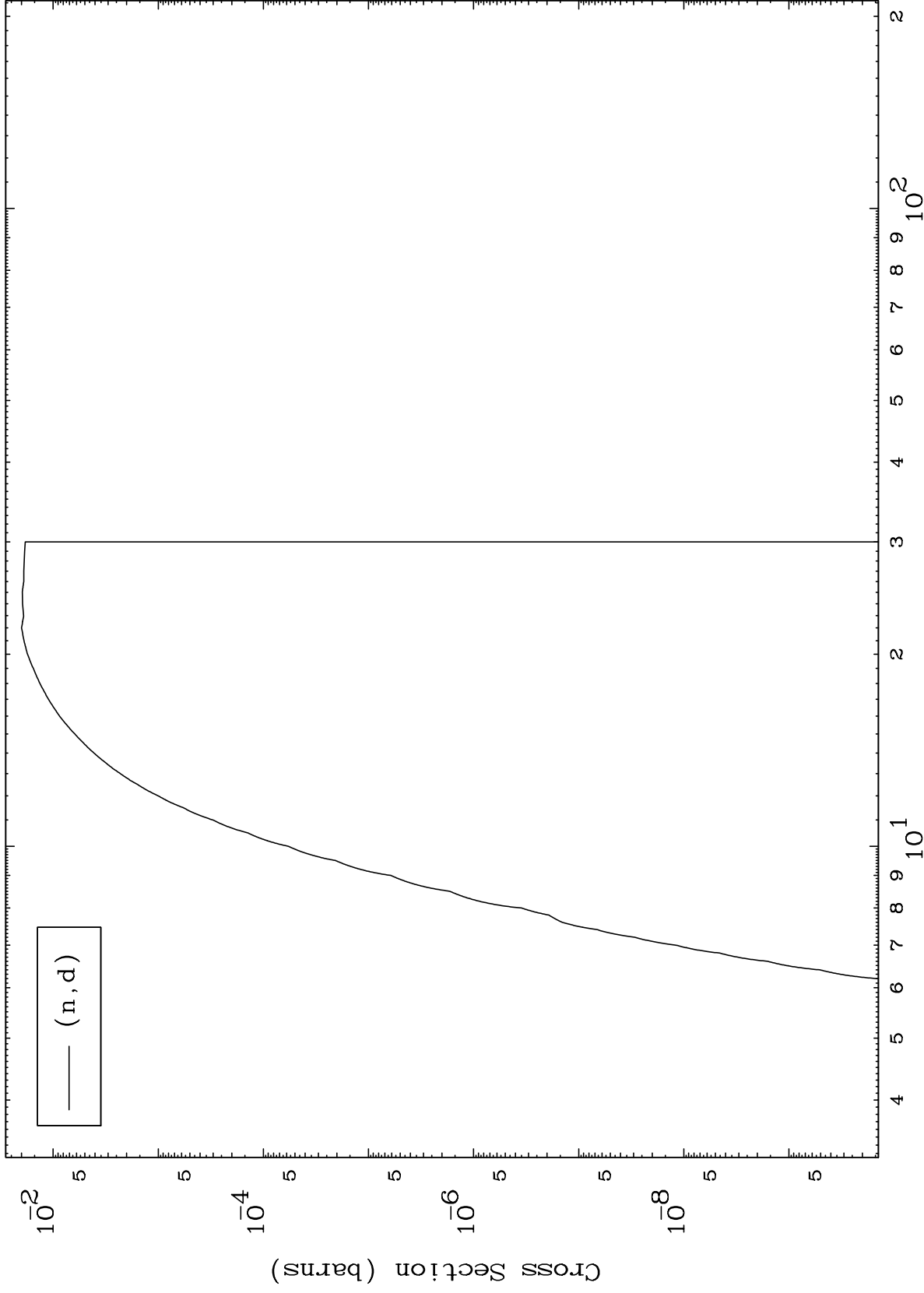
51-Sb-120



MAT 5122

(n,d) Levels  
293 Kelvin Cross Sections

51-Sb-120



11

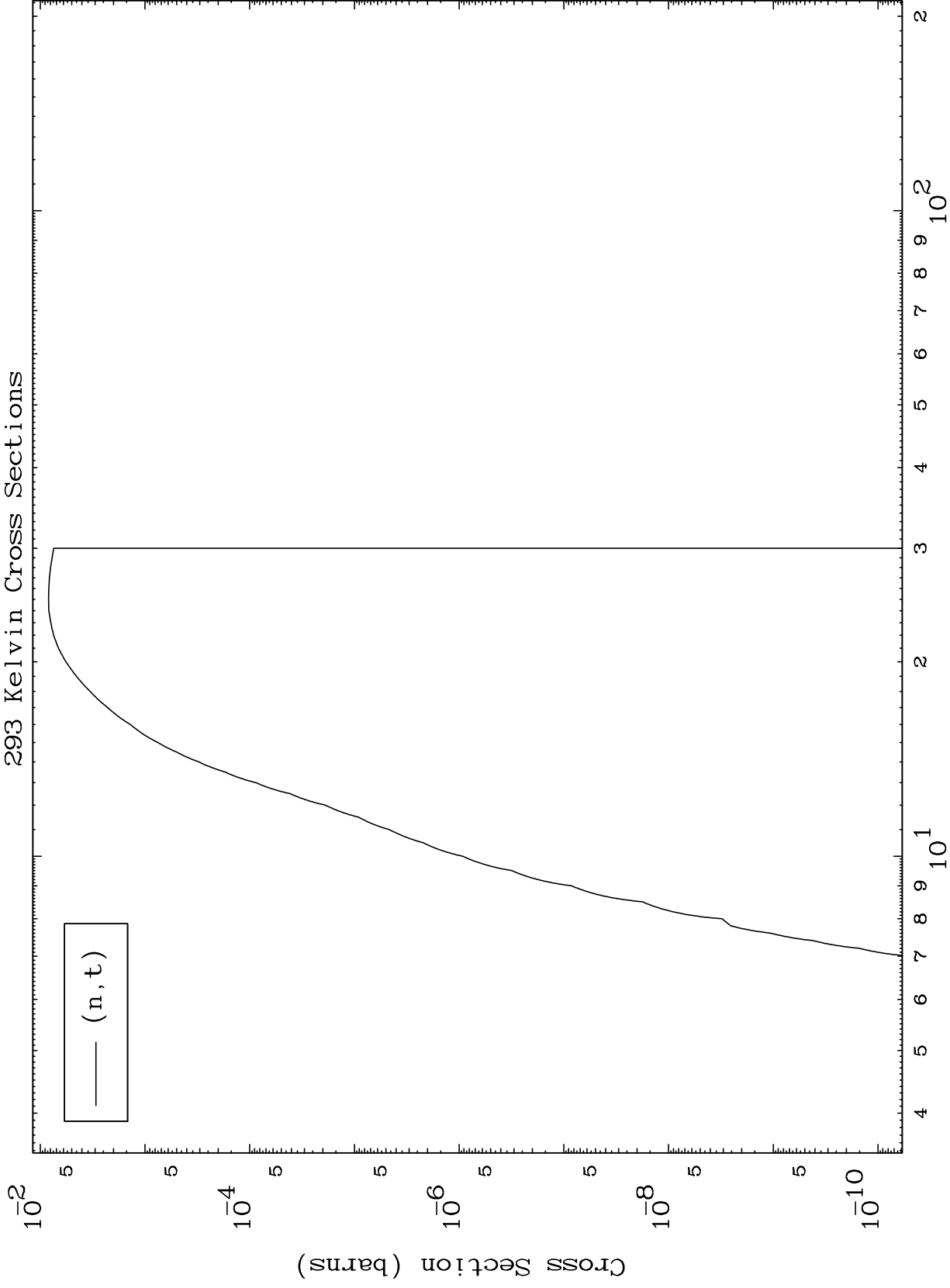
Incident Energy (MeV)

51-Sb-120

MAT 5122

(n,t) Levels  
293 Kelvin Cross Sections

51-Sb-120



12

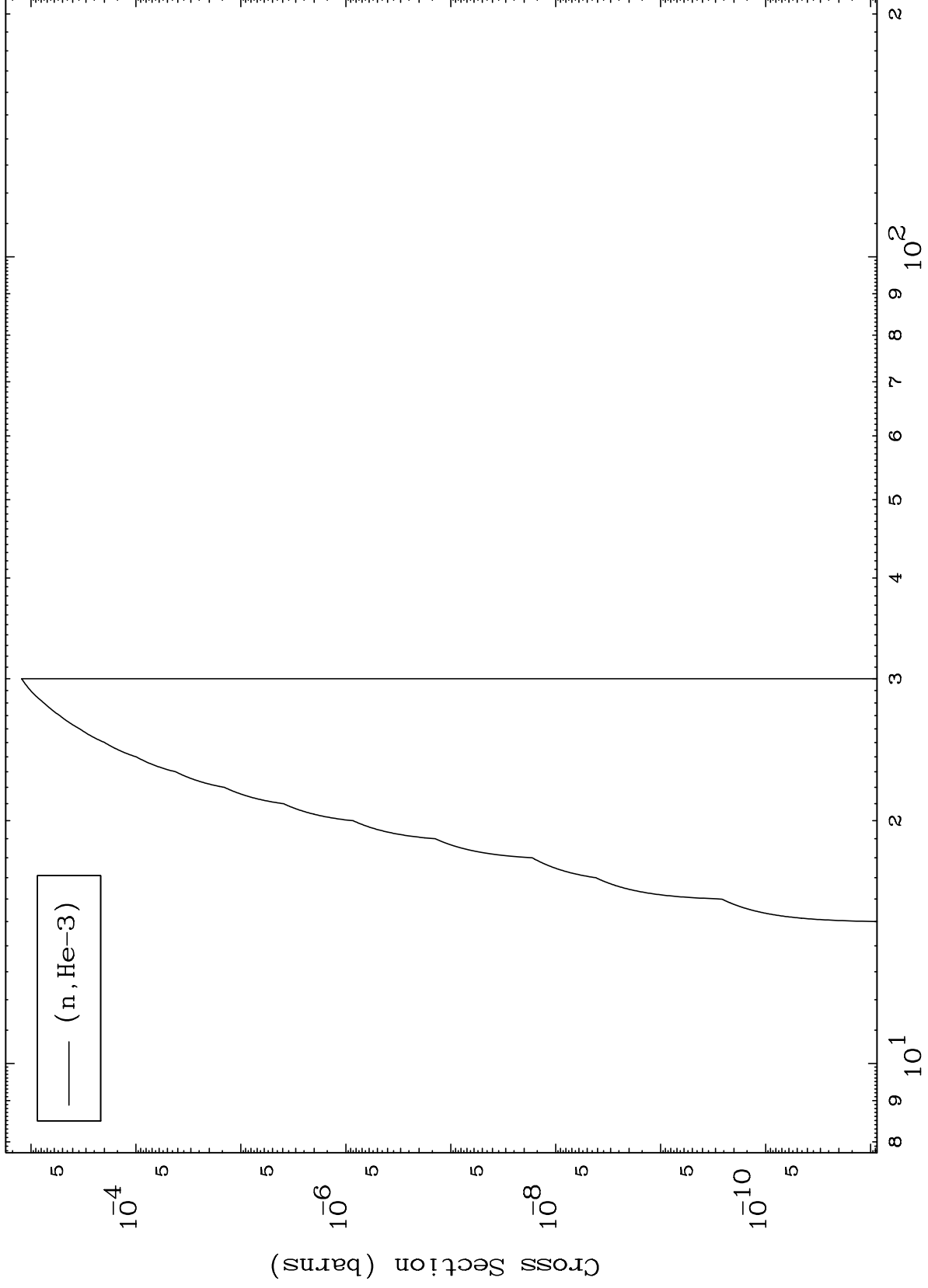
Incident Energy (MeV)

51-Sb-120

MAT 5122

(n,He3) Levels  
293 Kelvin Cross Sections

51-Sb-120



13

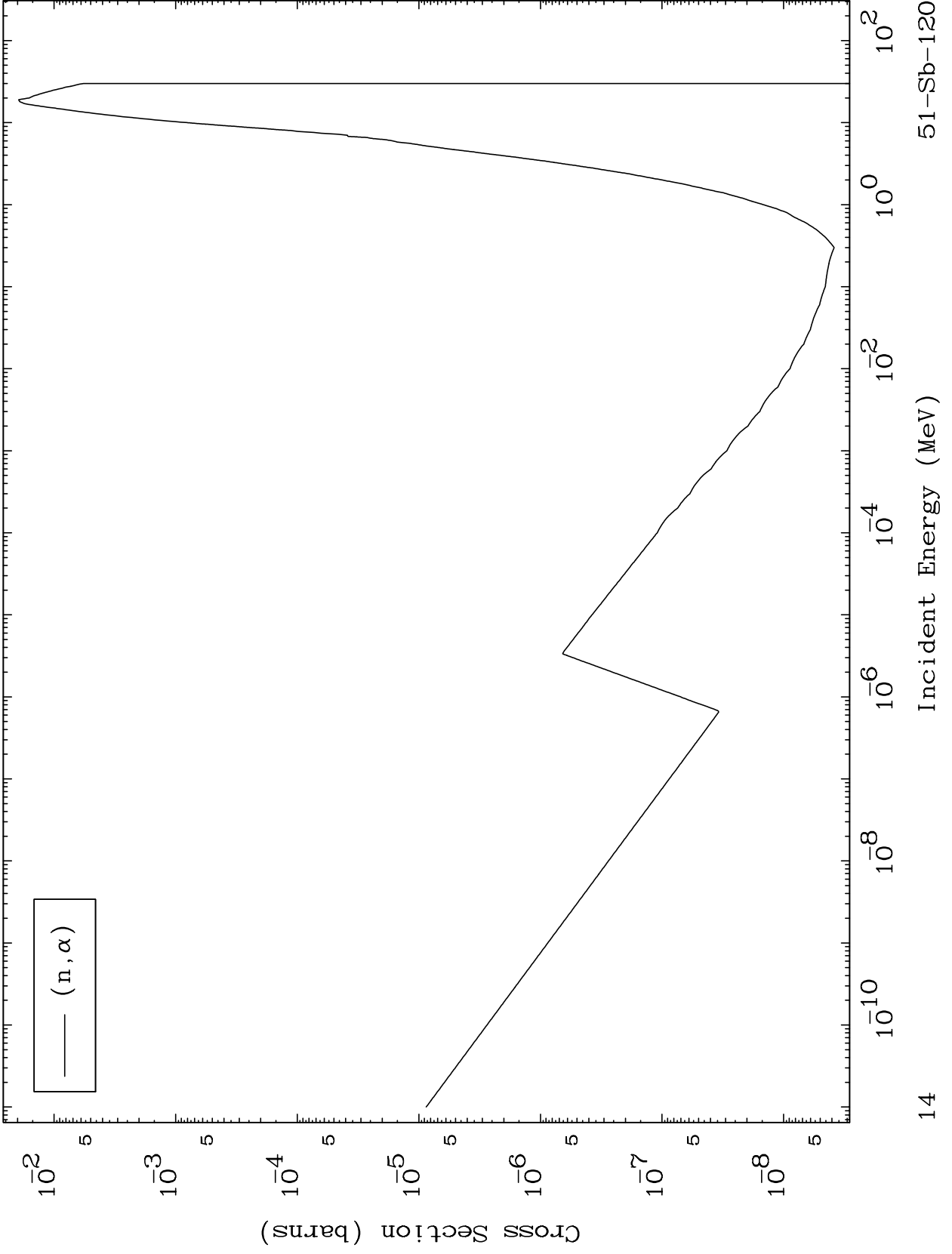
Incident Energy (MeV)

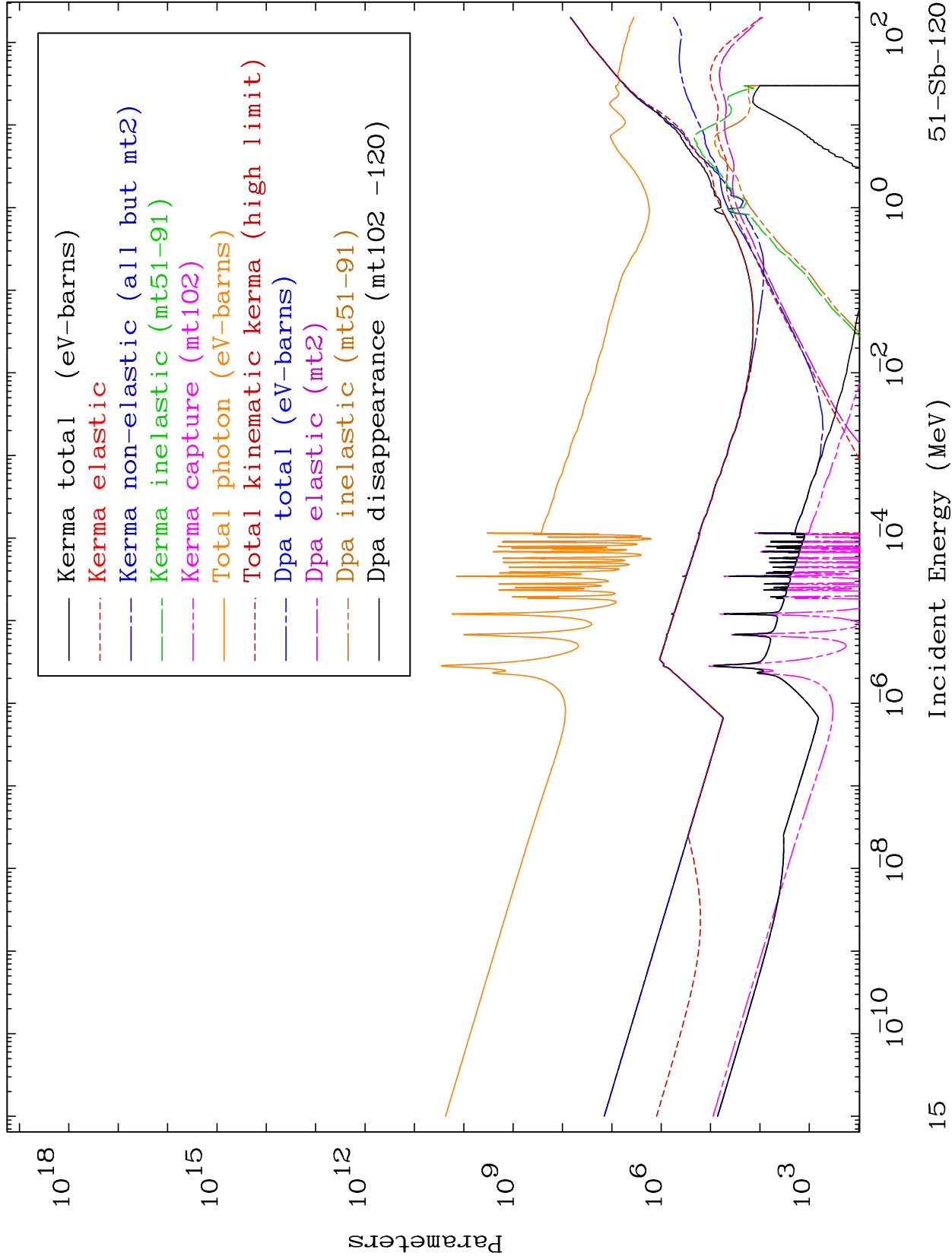
51-Sb-120

MAT 5122

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

51-Sb-120



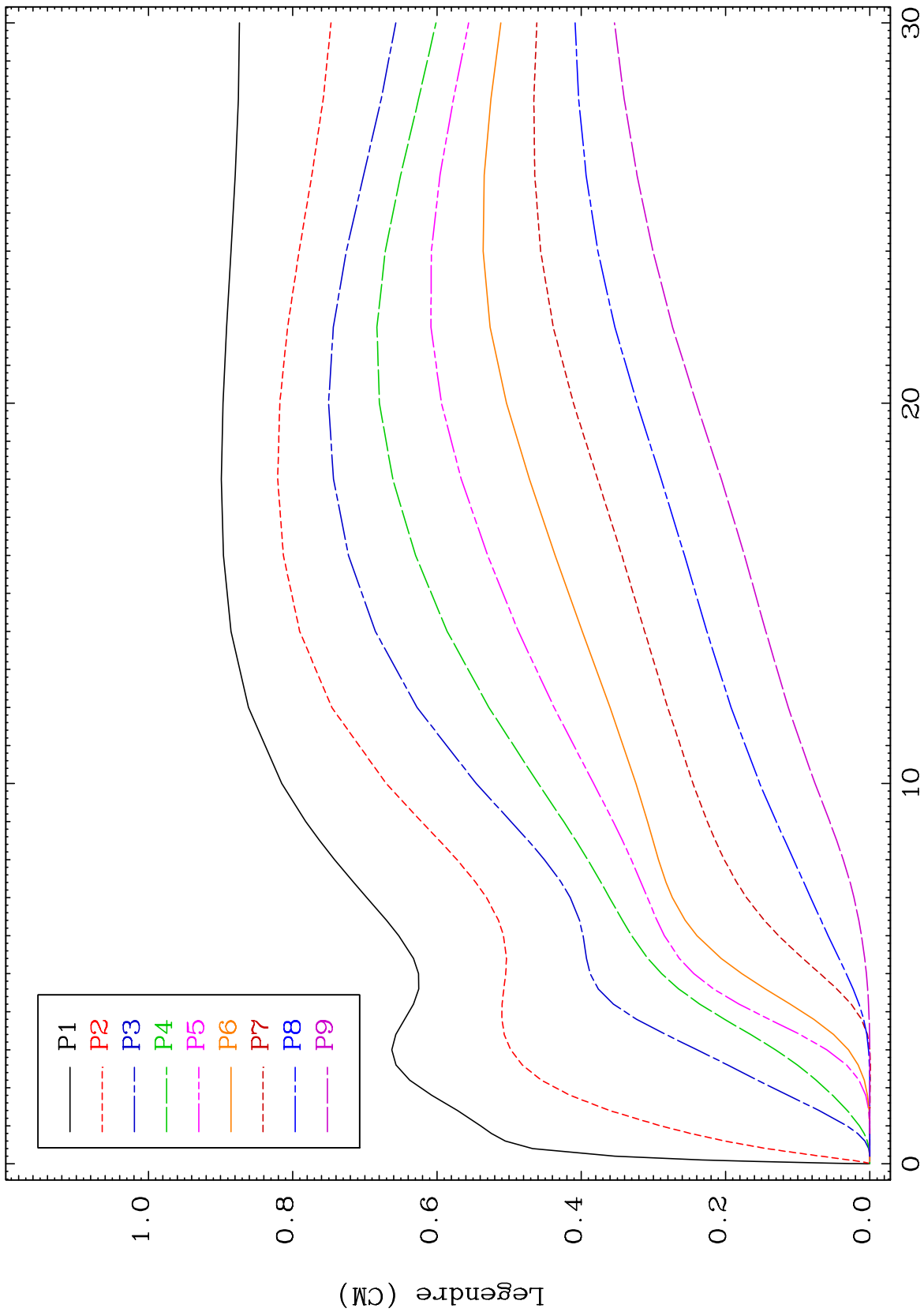




MAT 5122

Elastic Legendre Coefficients

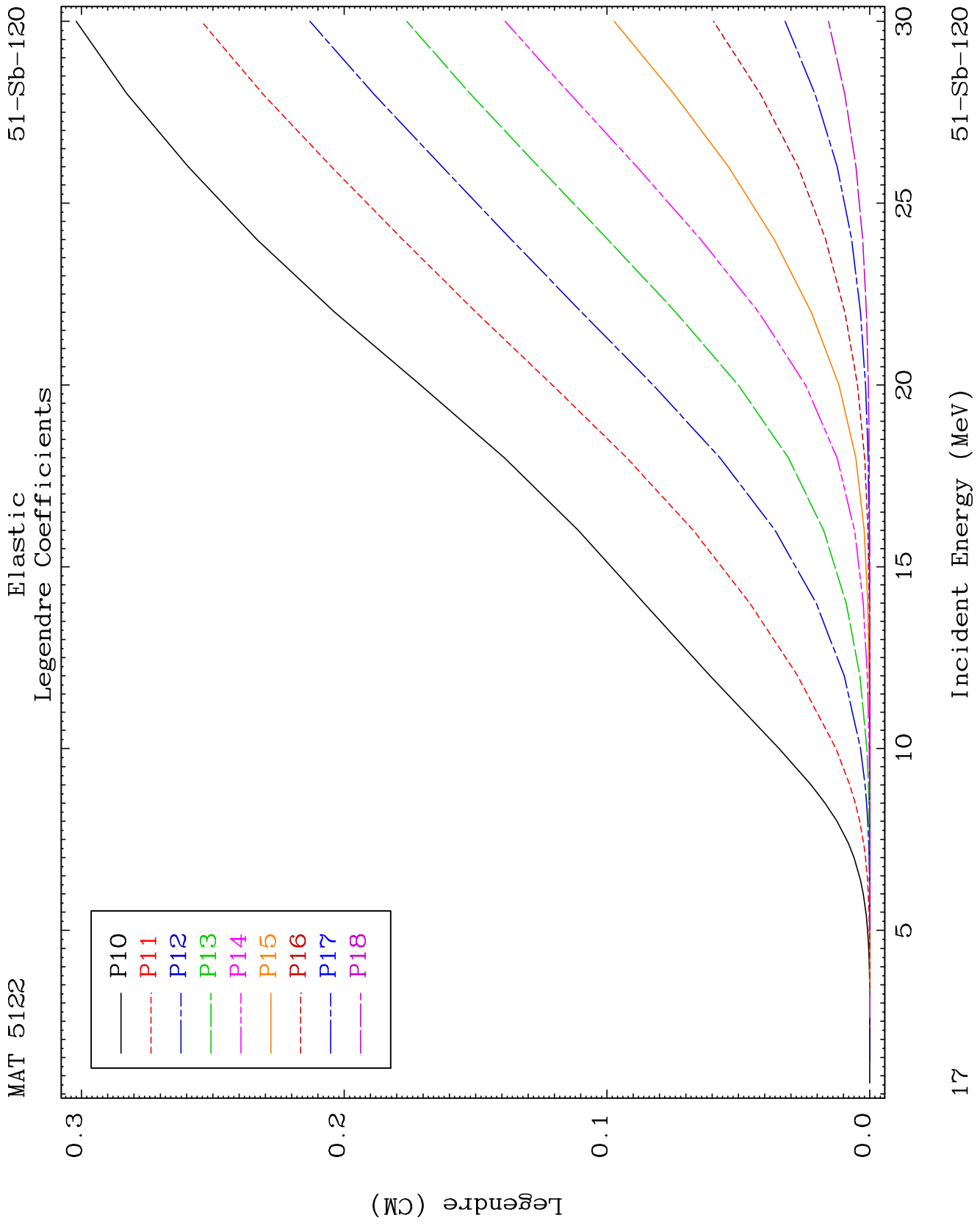
51-Sb-120



16

Incident Energy (MeV)

51-Sb-120



MAT 5122

Elastic Legendre Coefficients

$^{51}\text{Sb-120}$

17

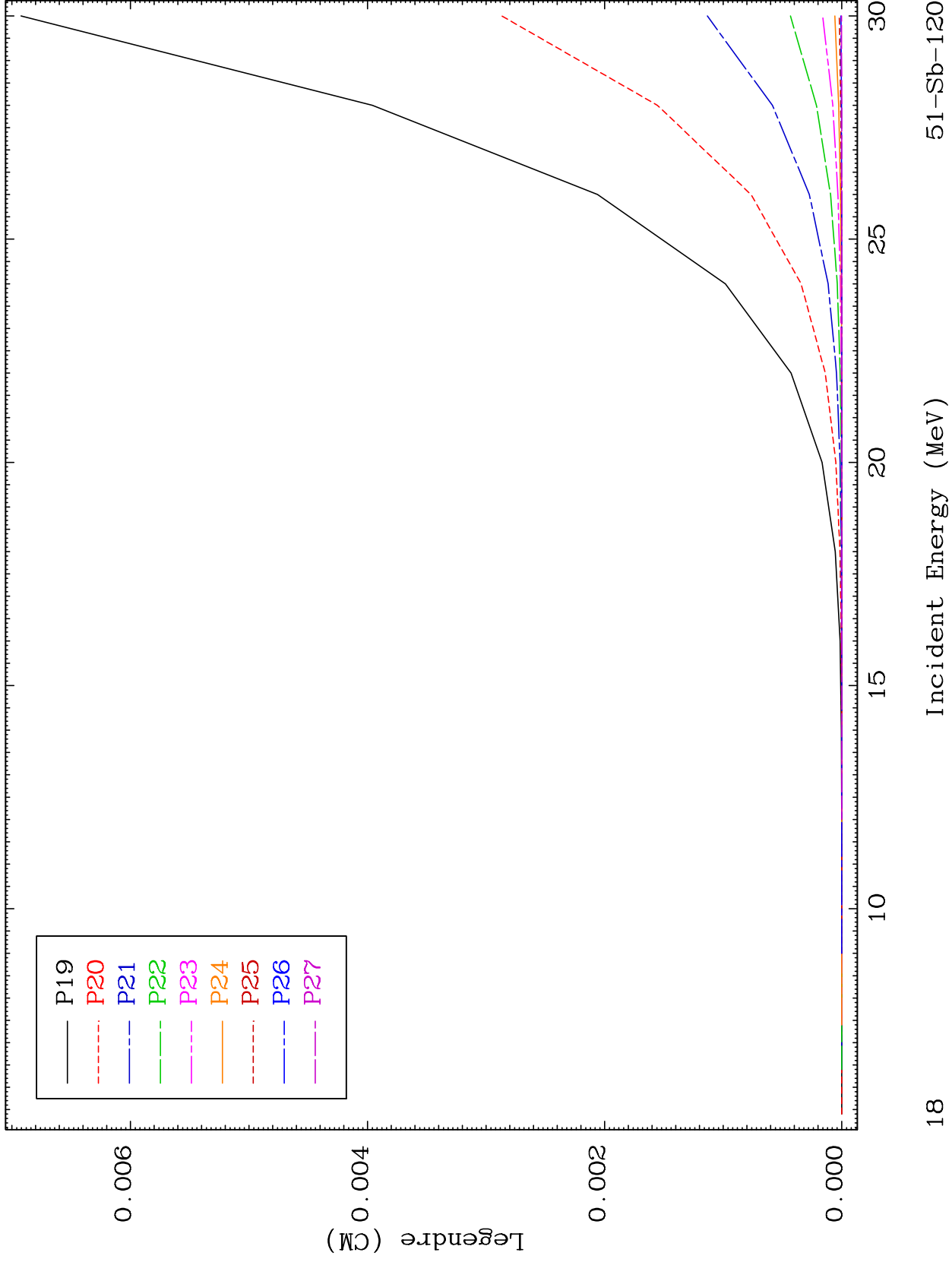
Incident Energy (MeV)

$^{51}\text{Sb-120}$

MAT 5122

Elastic Legendre Coefficients

51-Sb-120



18

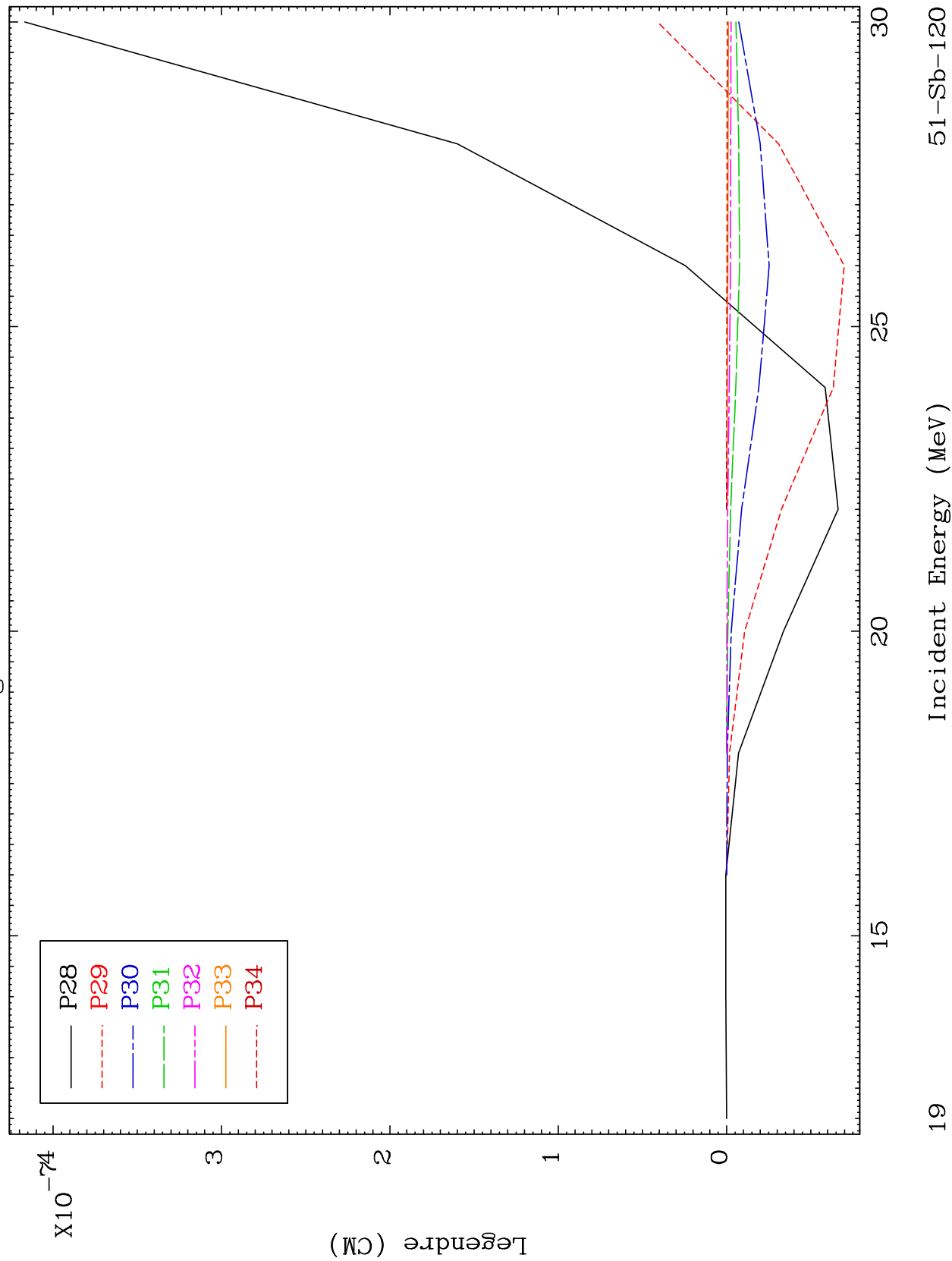
Incident Energy (MeV)

51-Sb-120

MAT 5122

Elastic Legendre Coefficients

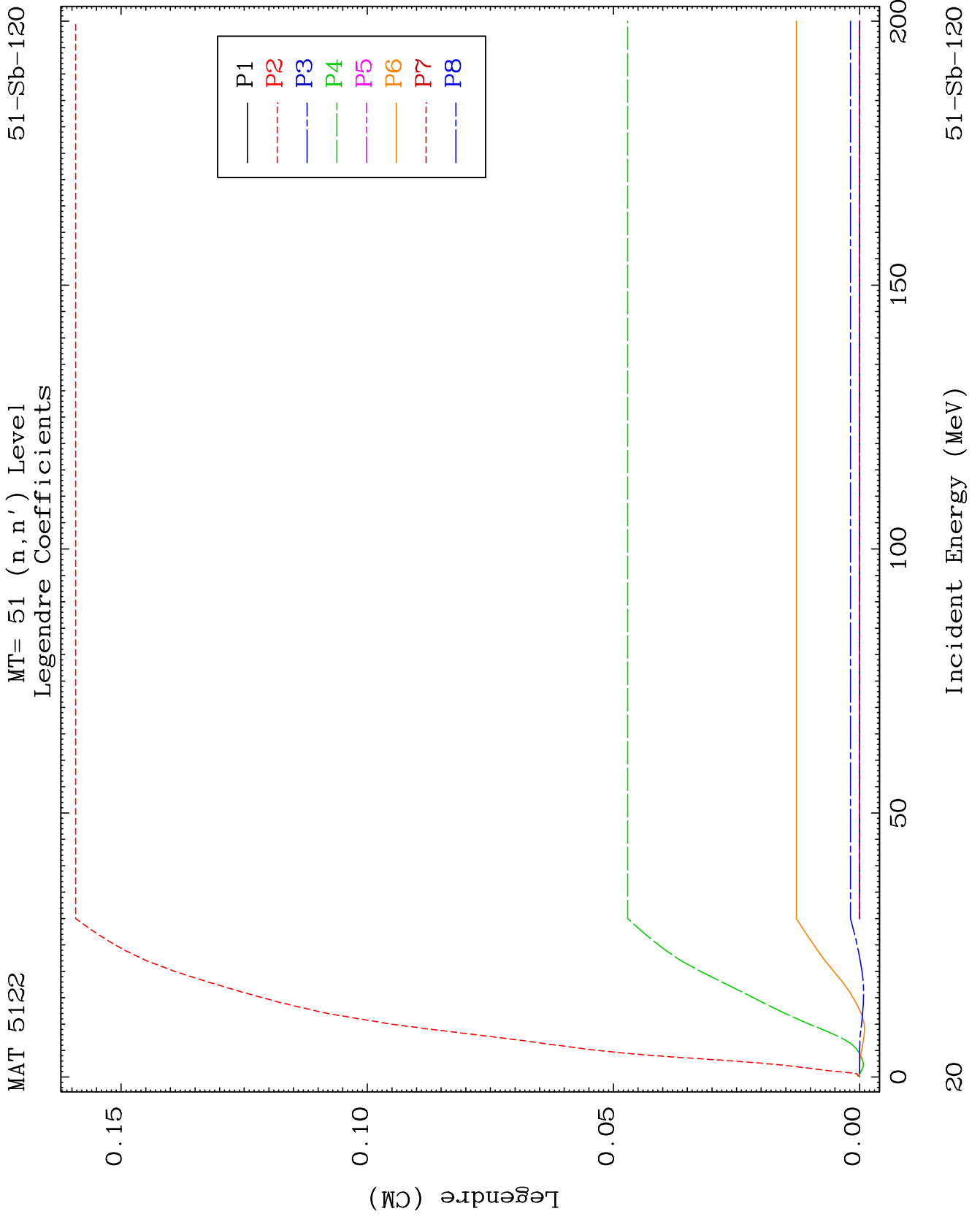
51-Sb-120



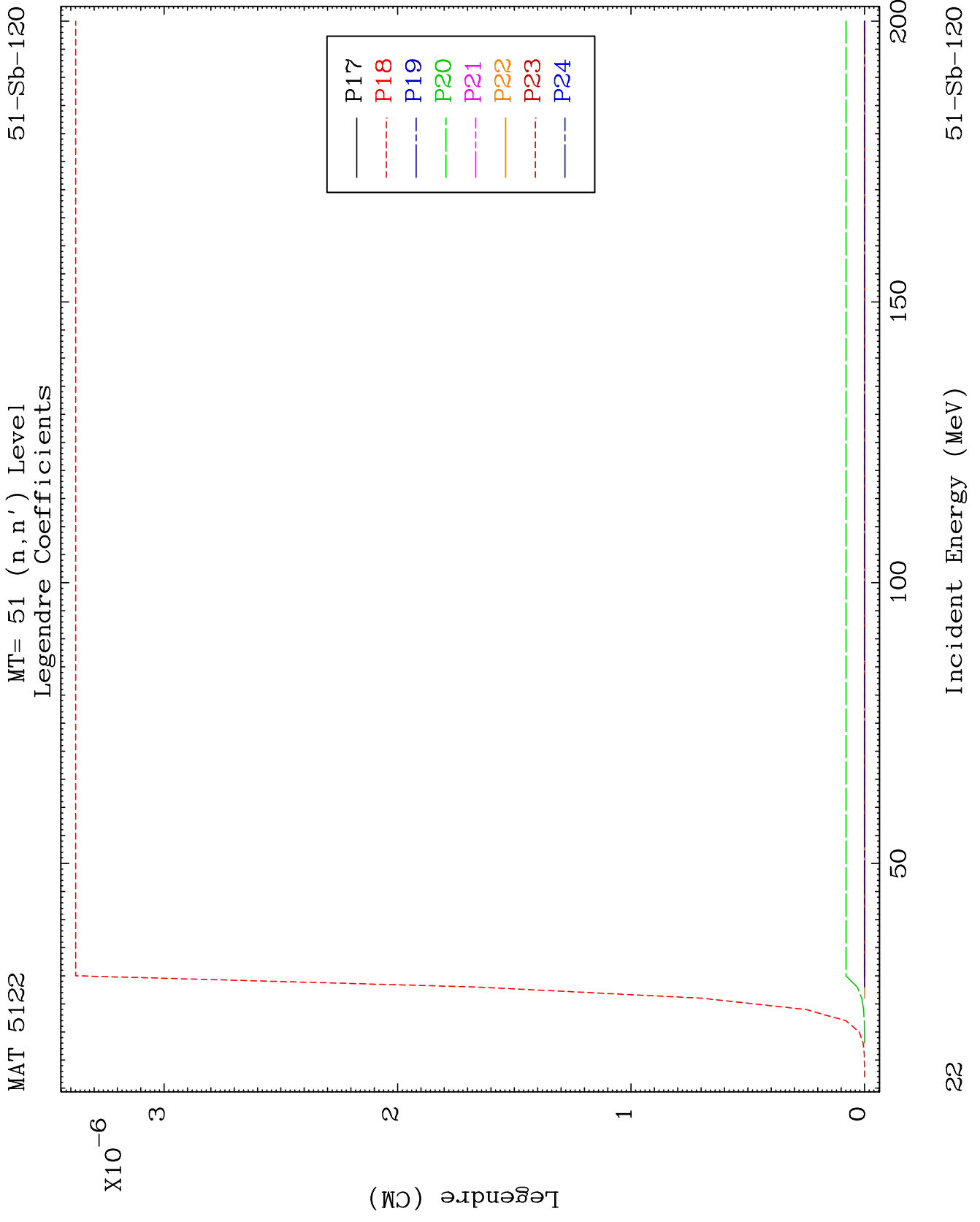
19

Incident Energy (MeV)

51-Sb-120

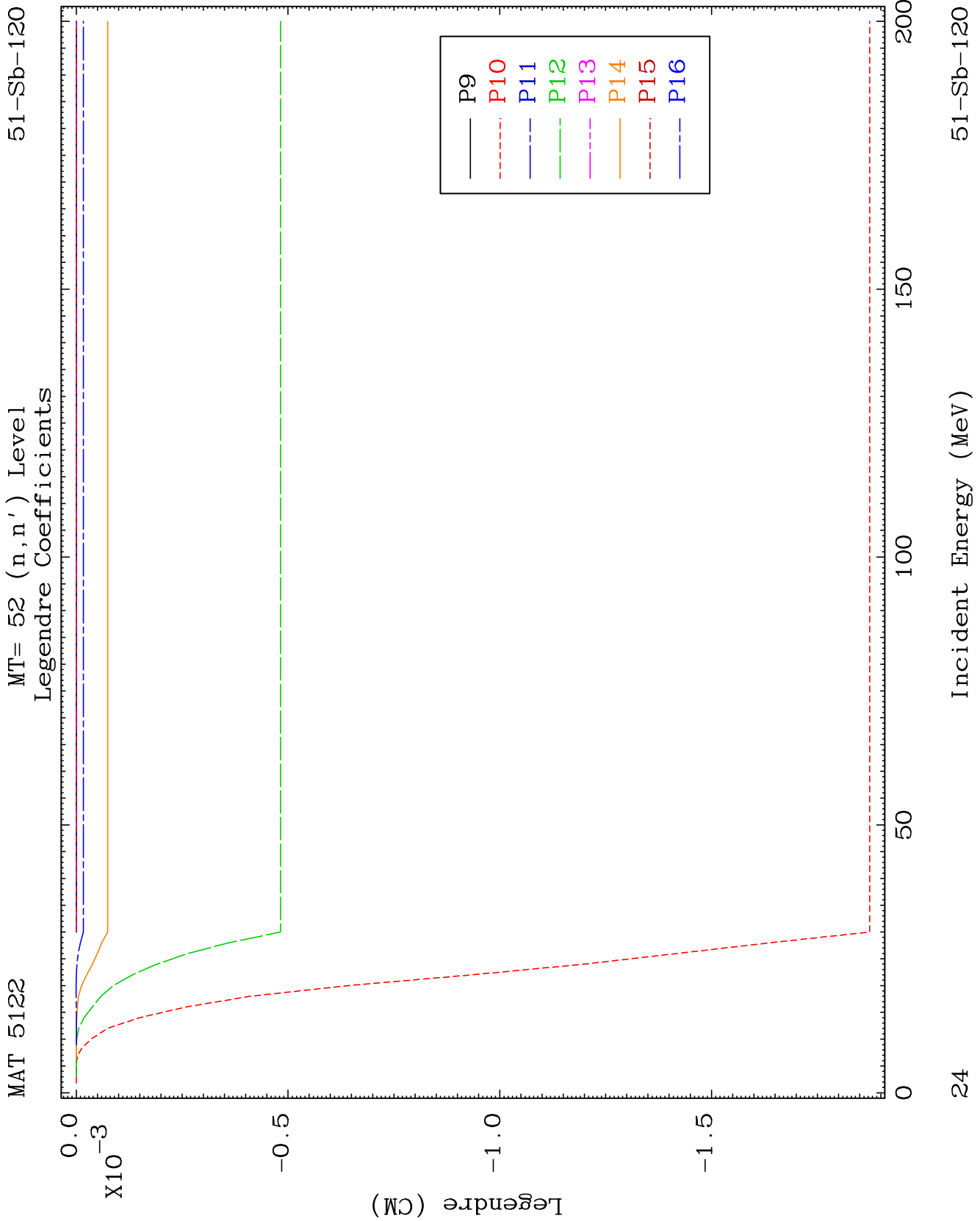


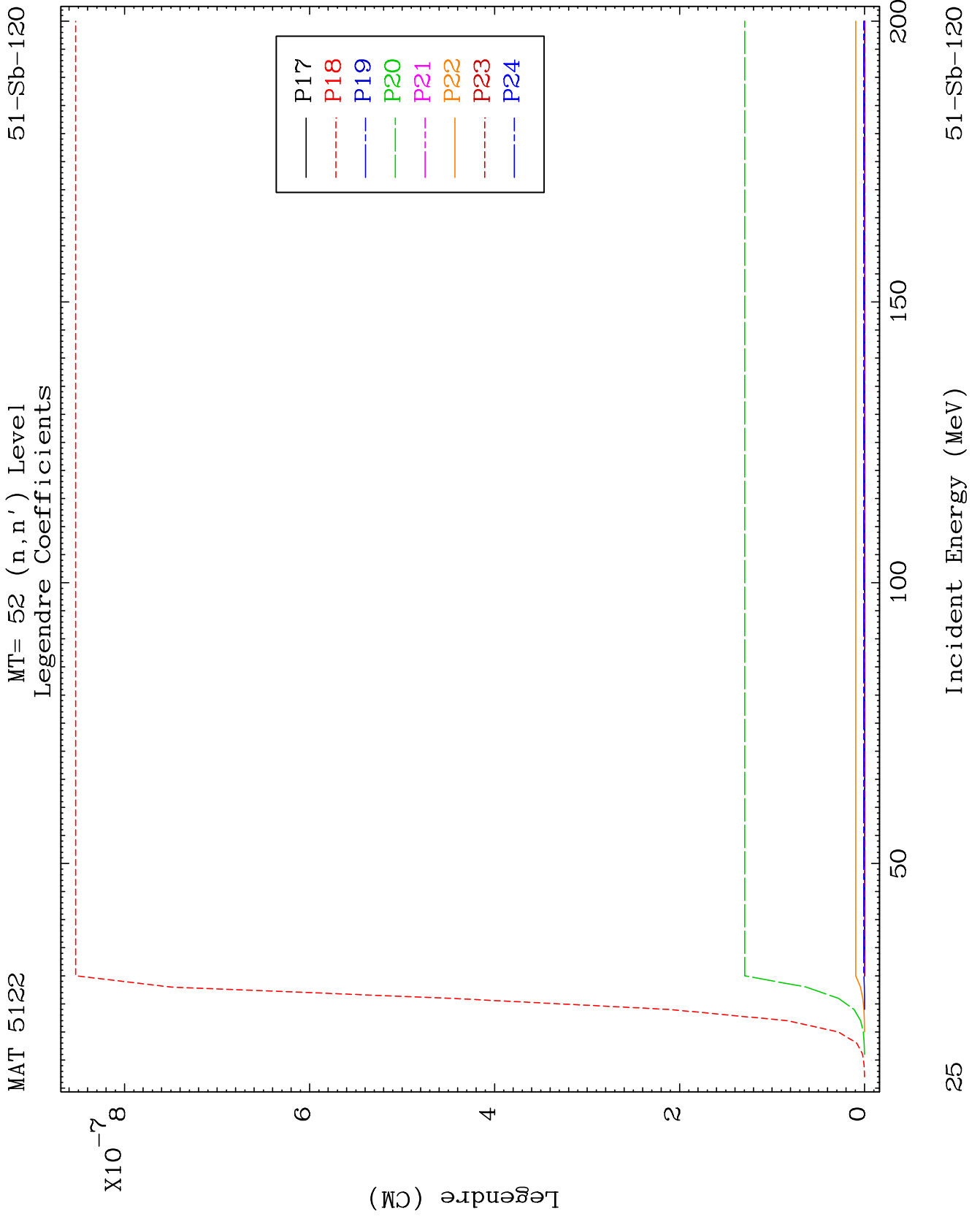


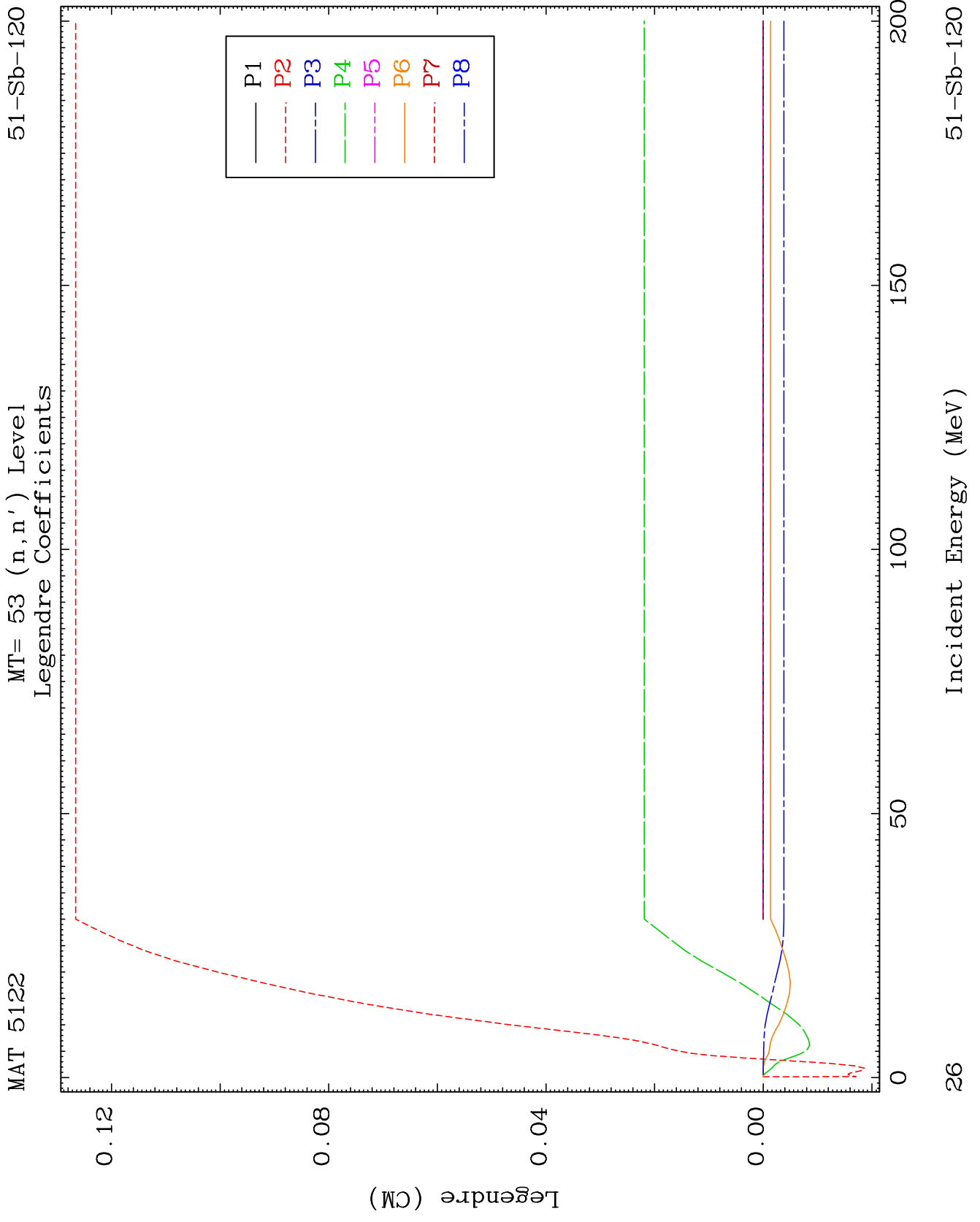


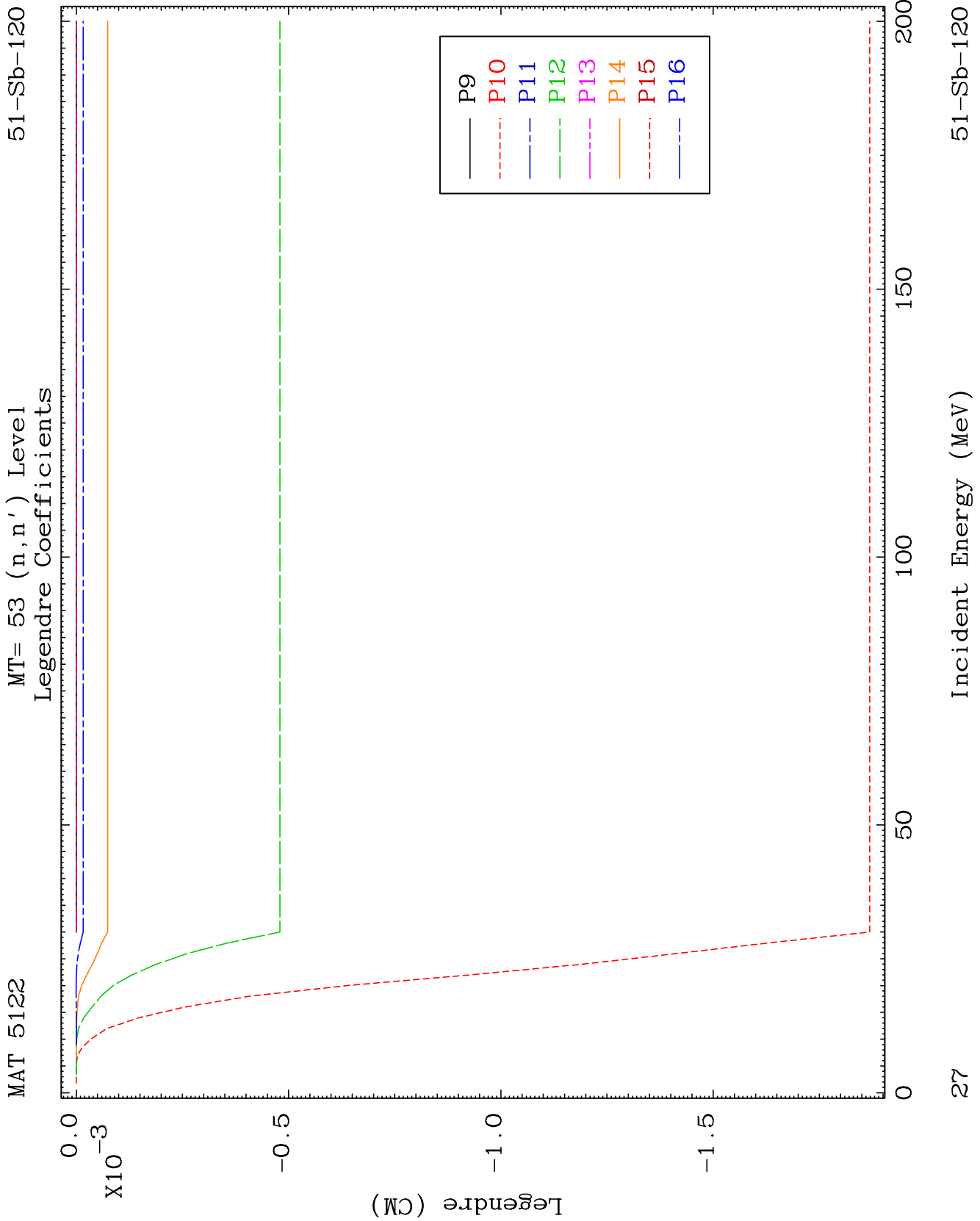


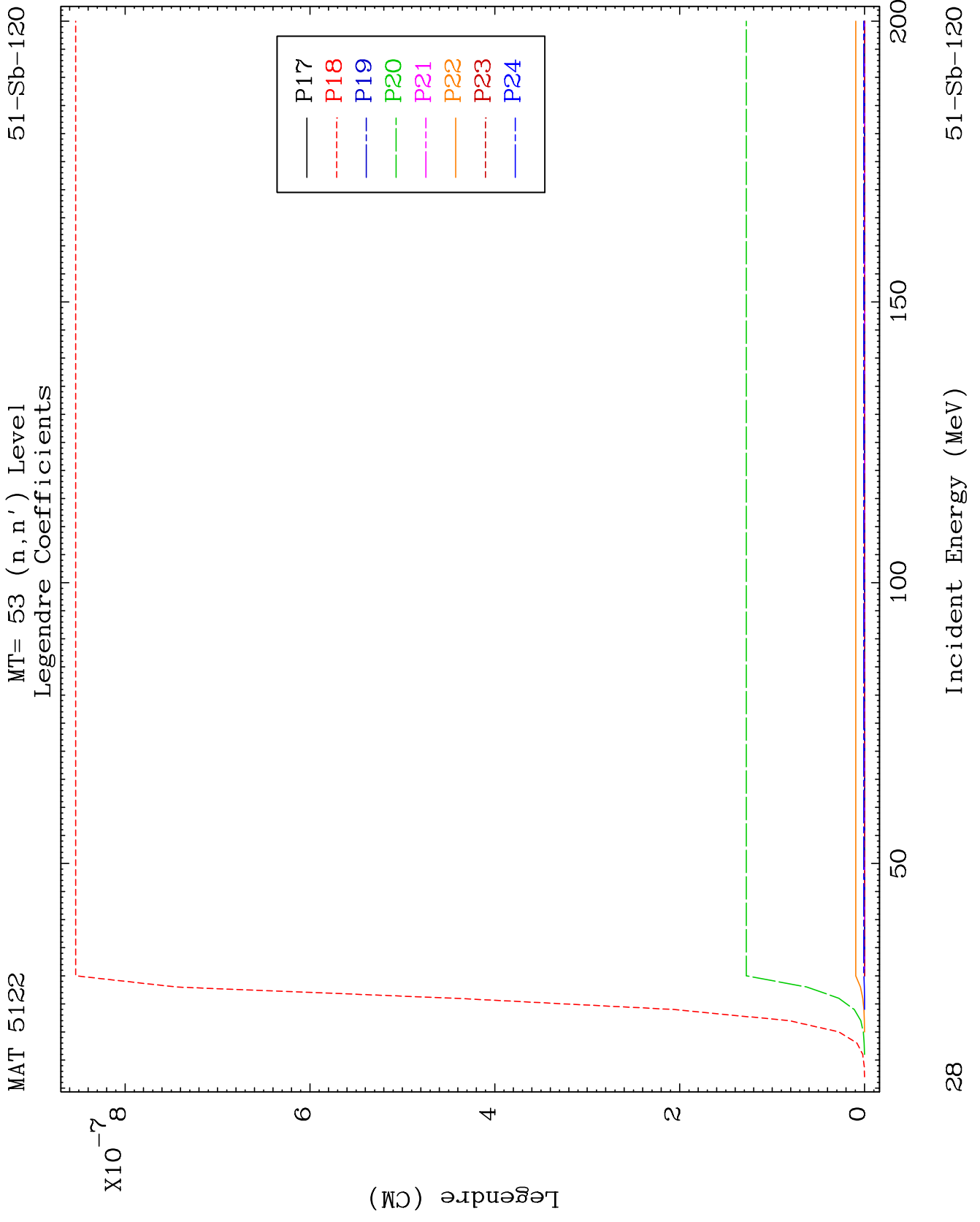








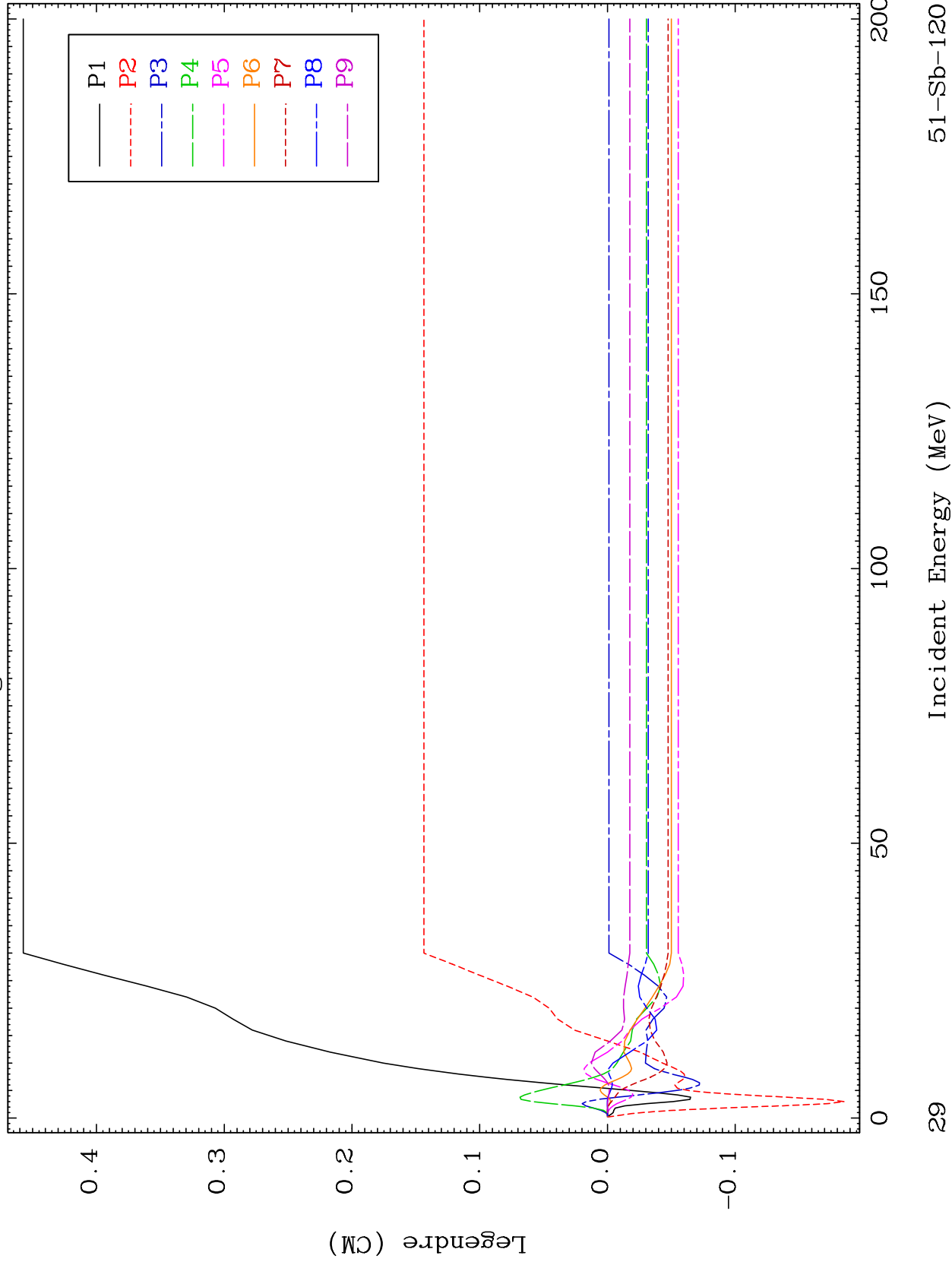




MAT 5122

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

51-Sb-120

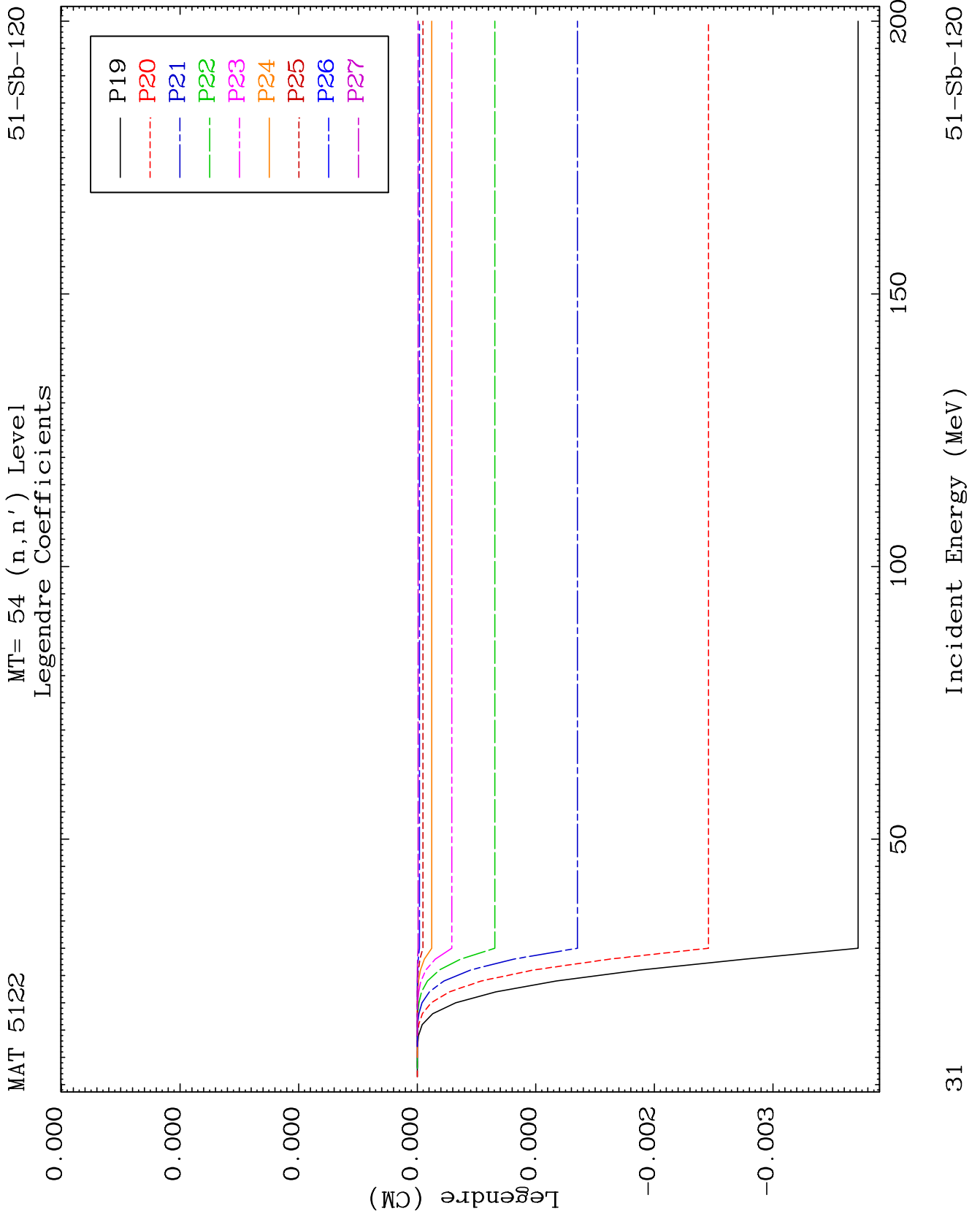


51-Sb-120

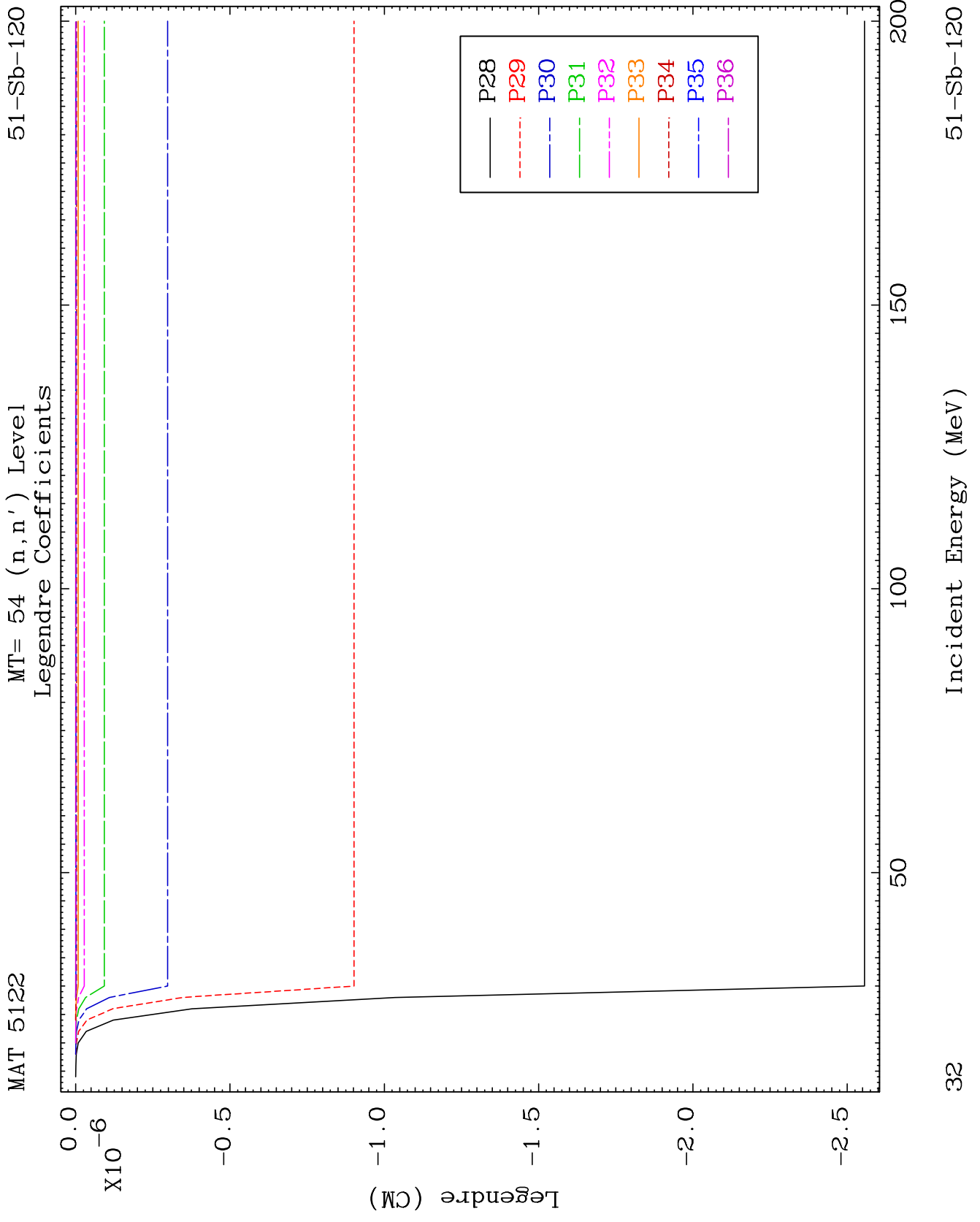
Incident Energy (MeV)

29





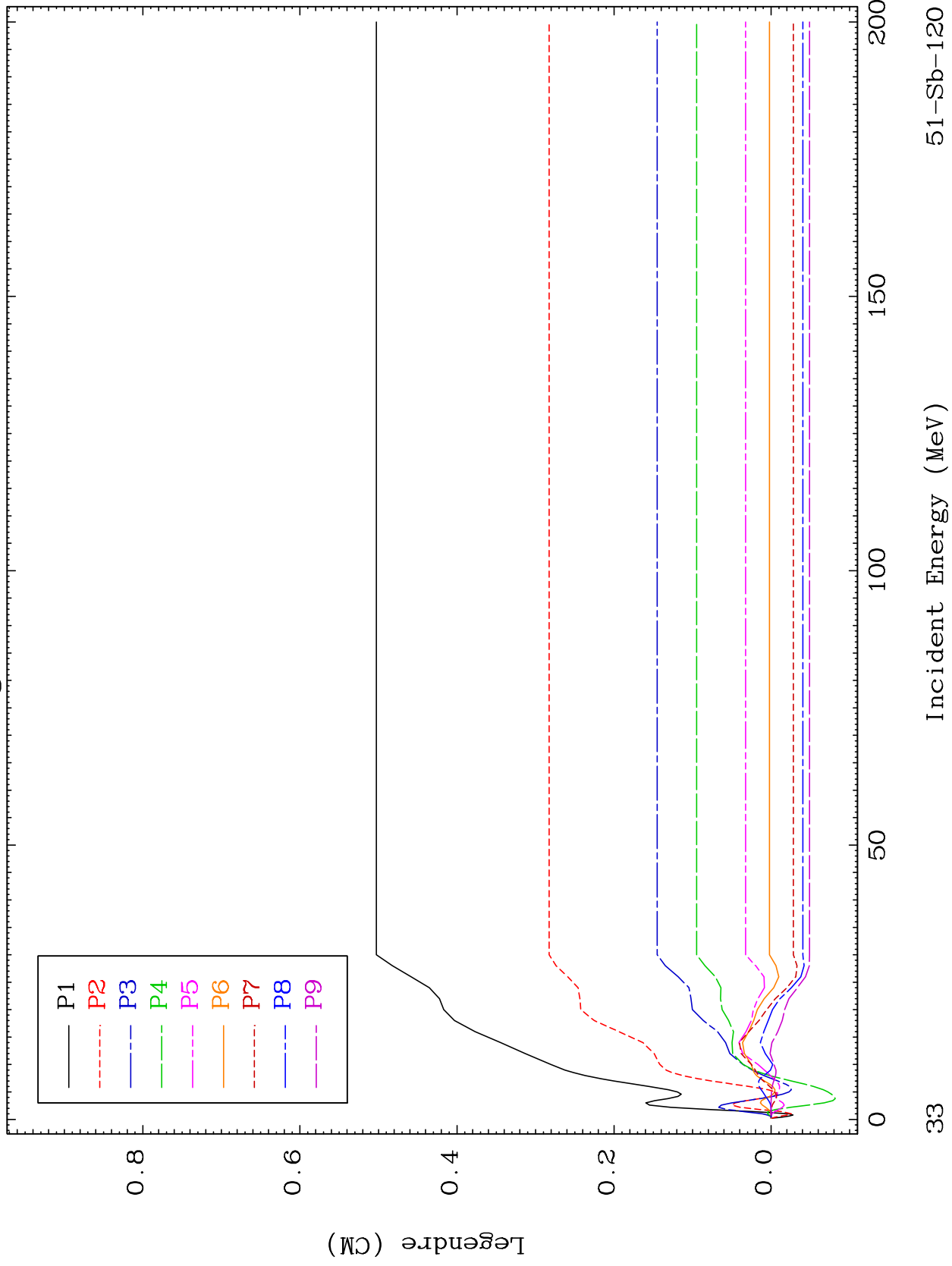




MAT 5122

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

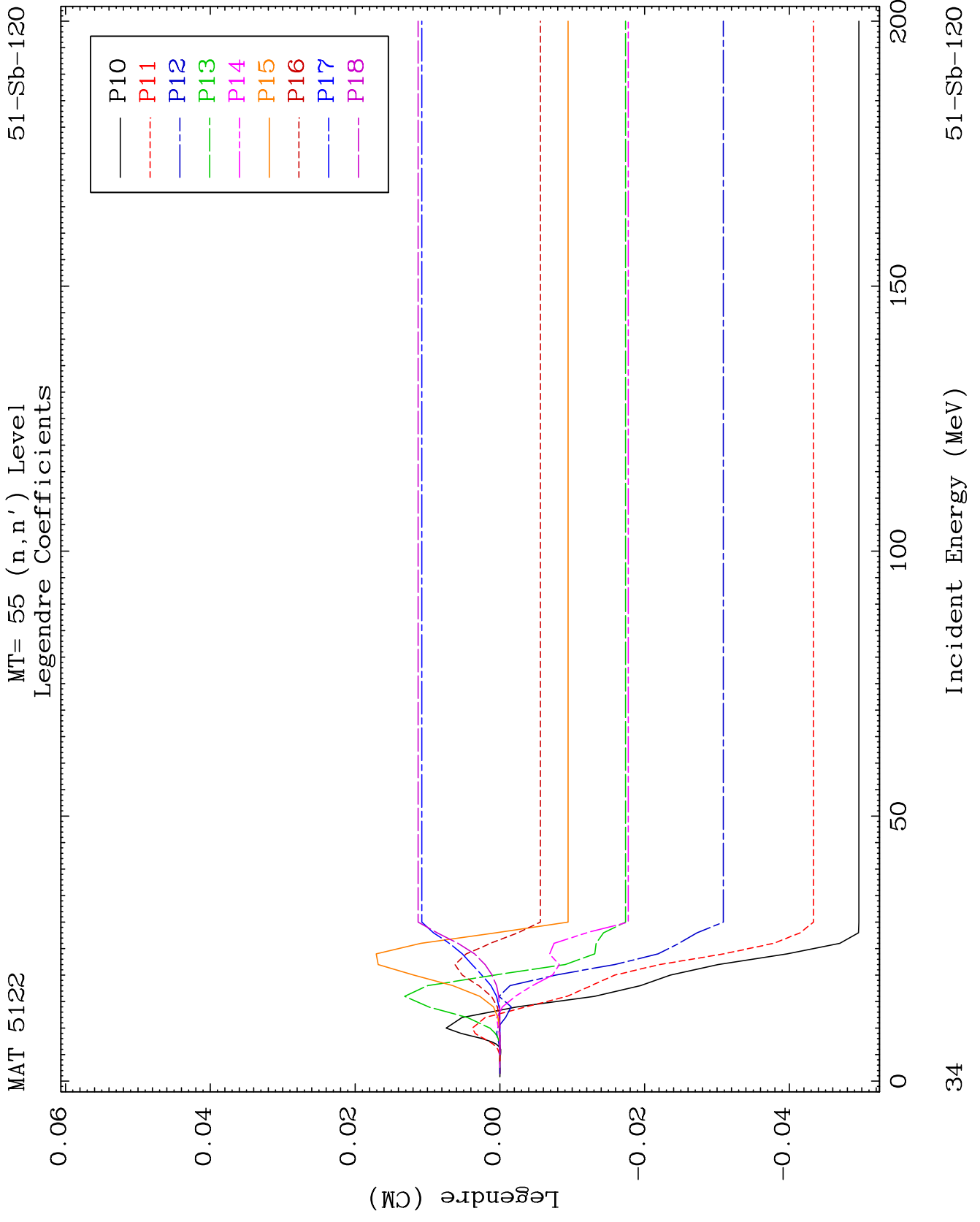
51-Sb-120



33

Incident Energy (MeV)

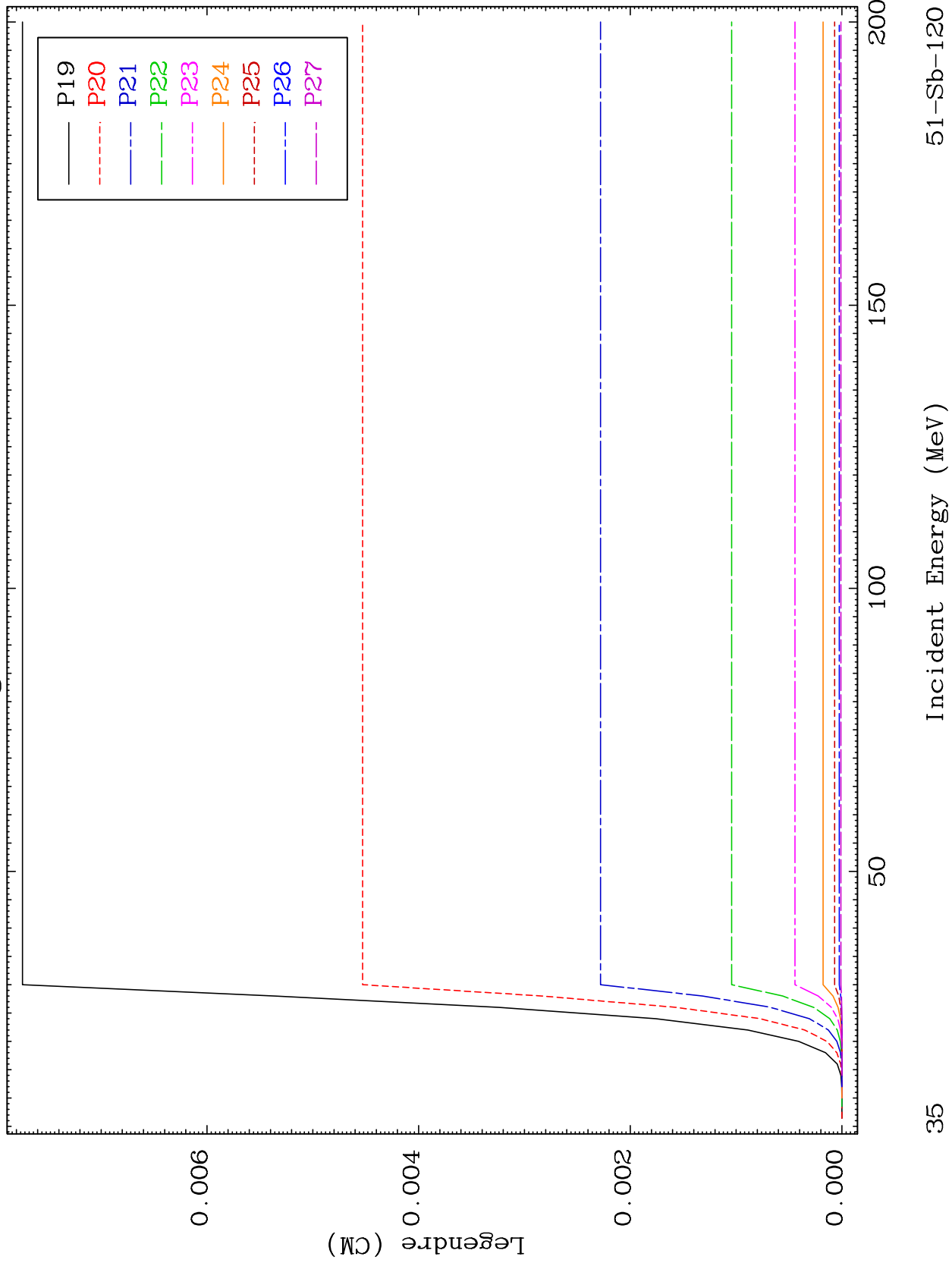
51-Sb-120



MAT 5122

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

51-Sb-120



35

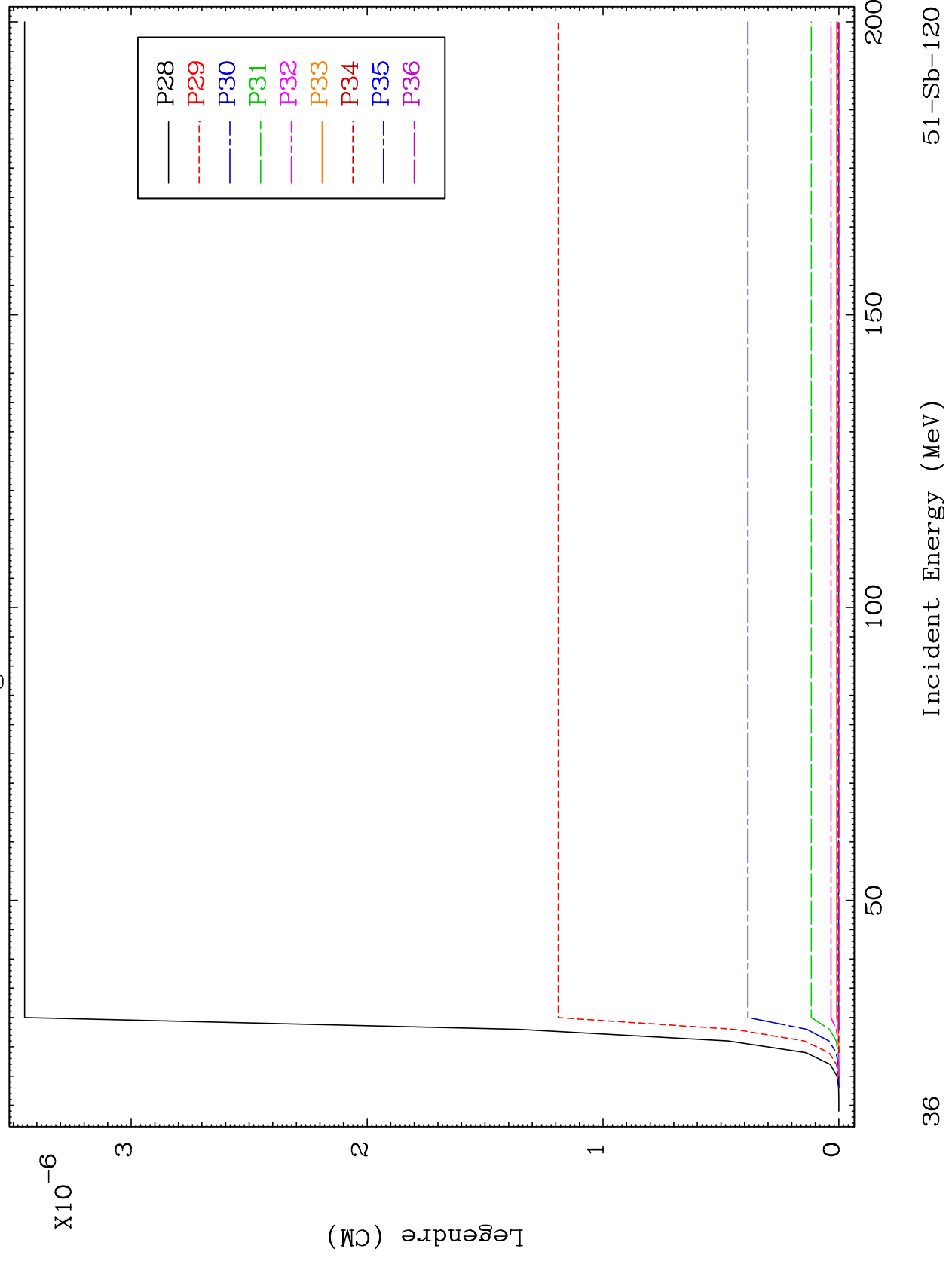
Incident Energy (MeV)

51-Sb-120

MAT 5122

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

51-Sb-120



36

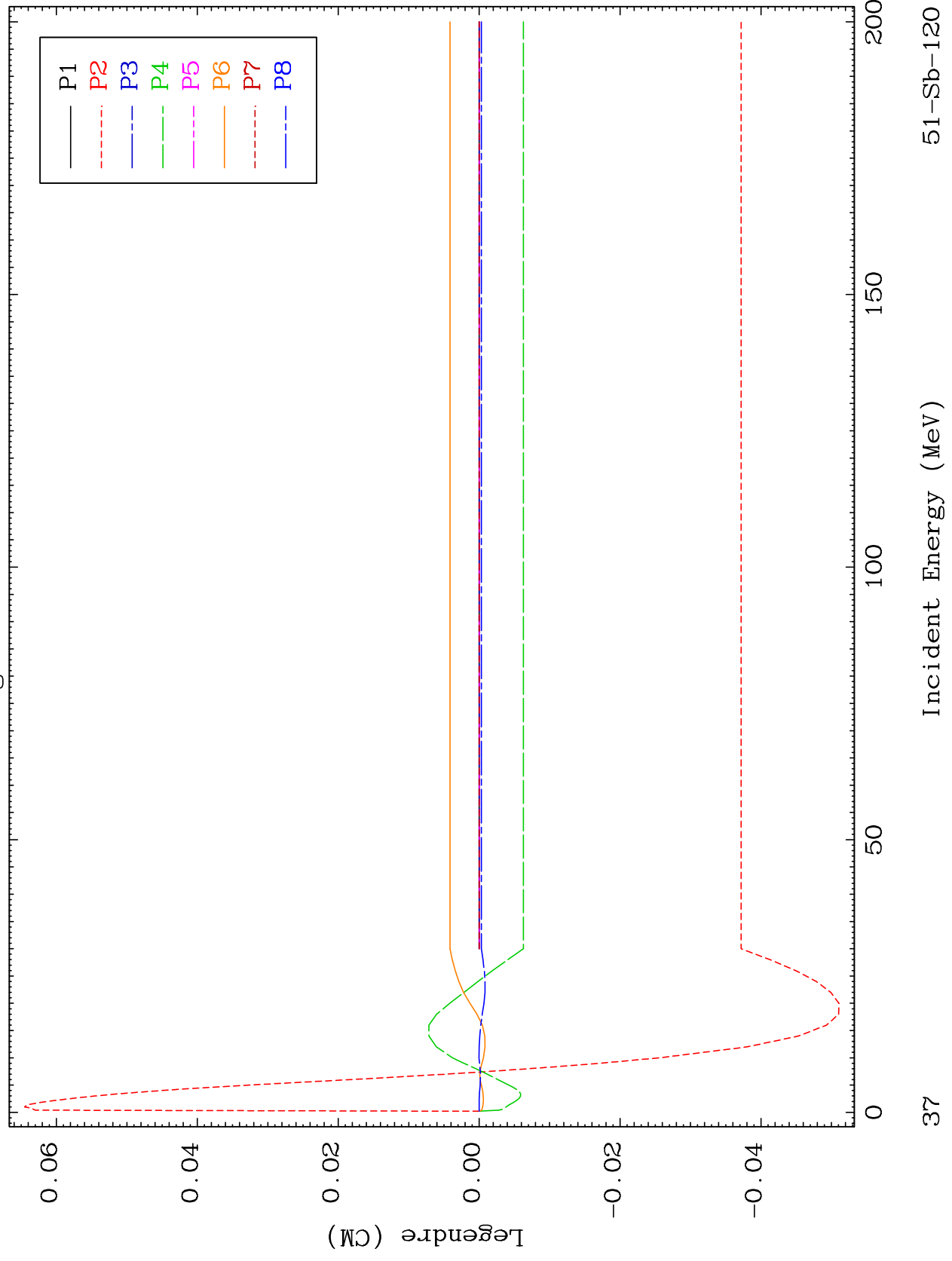
Incident Energy (MeV)

51-Sb-120

MAT 5122

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

51-Sb-120



51-Sb-120

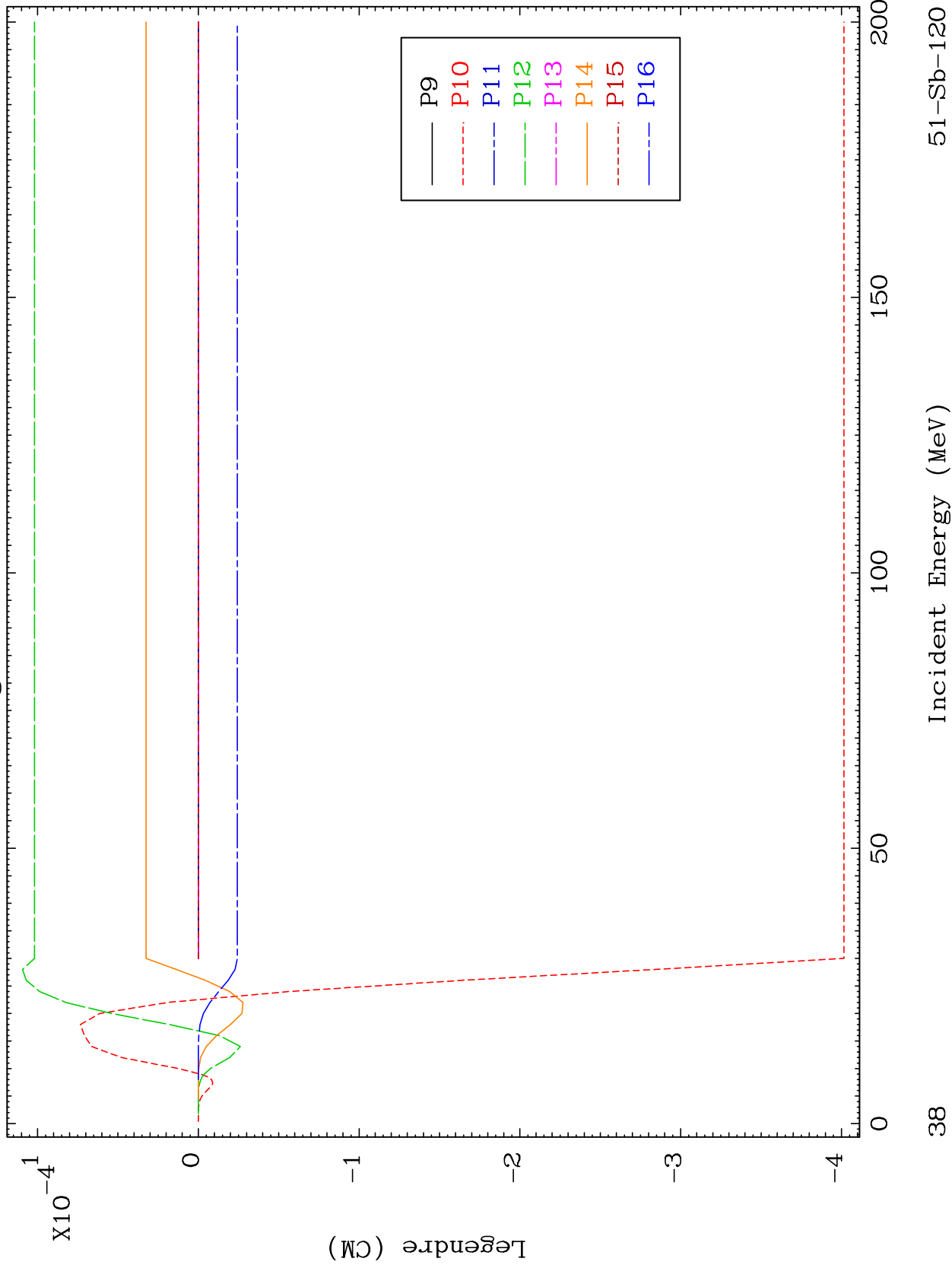
Incident Energy (MeV)

37

MAT 5122

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

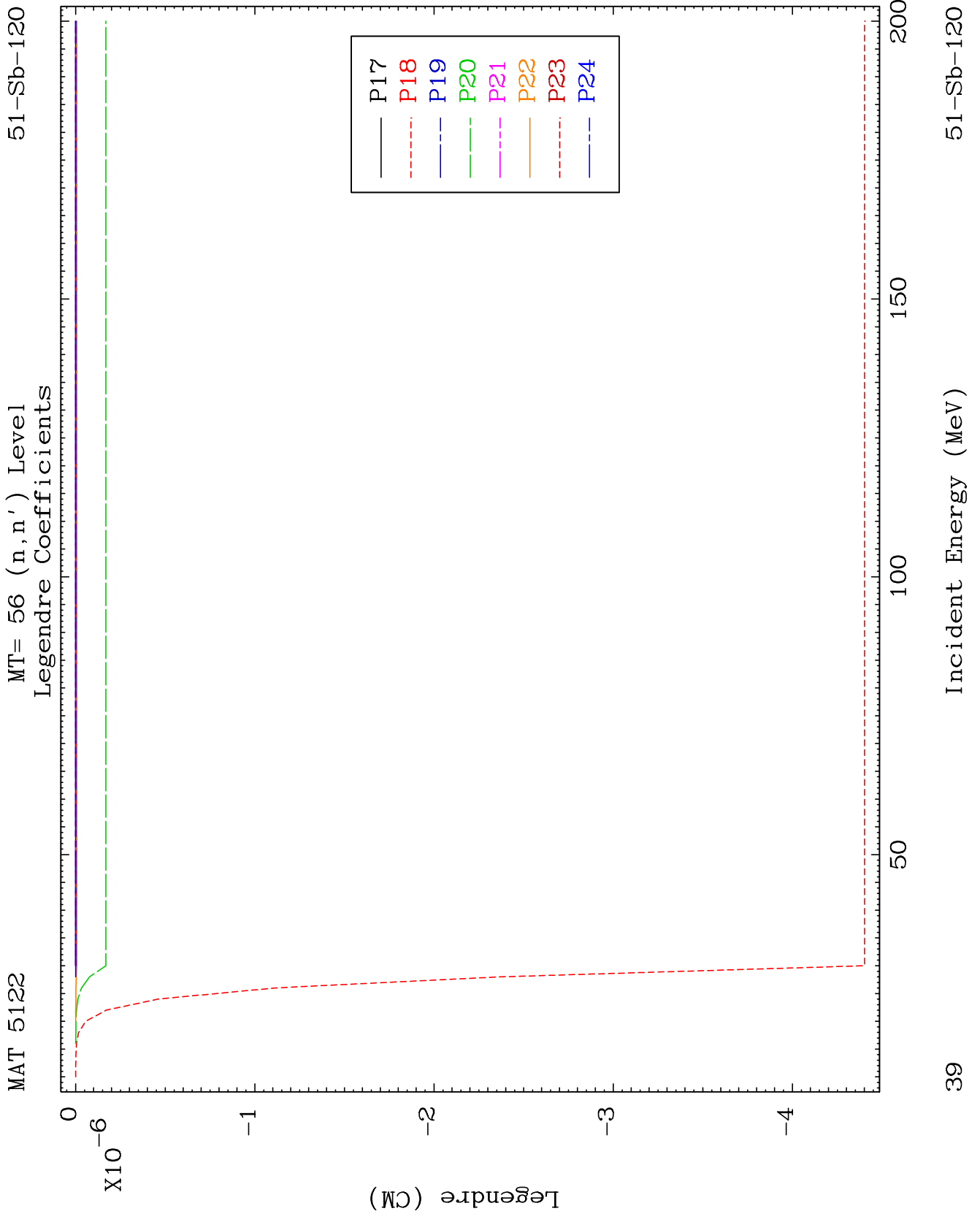
51-Sb-120



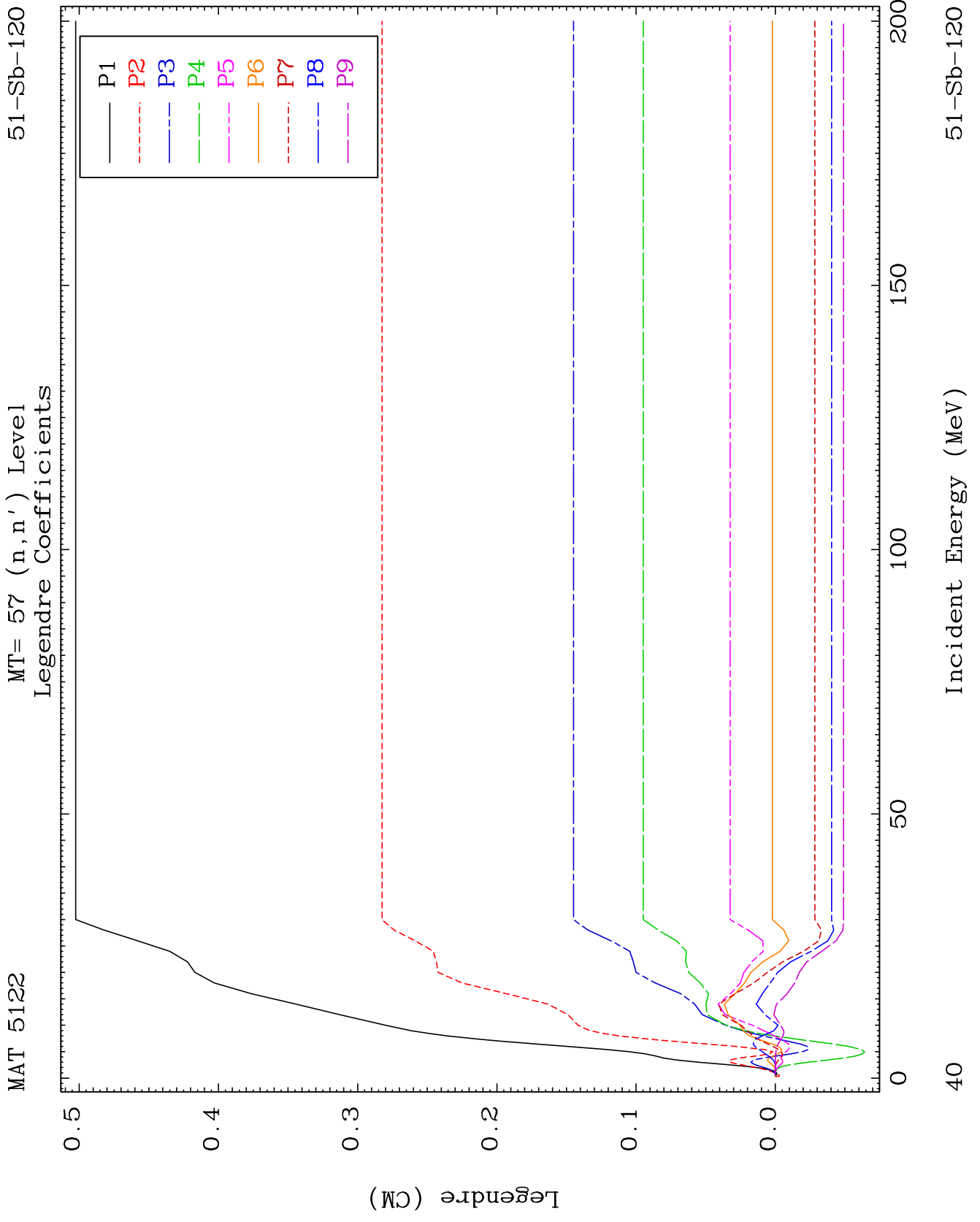
38

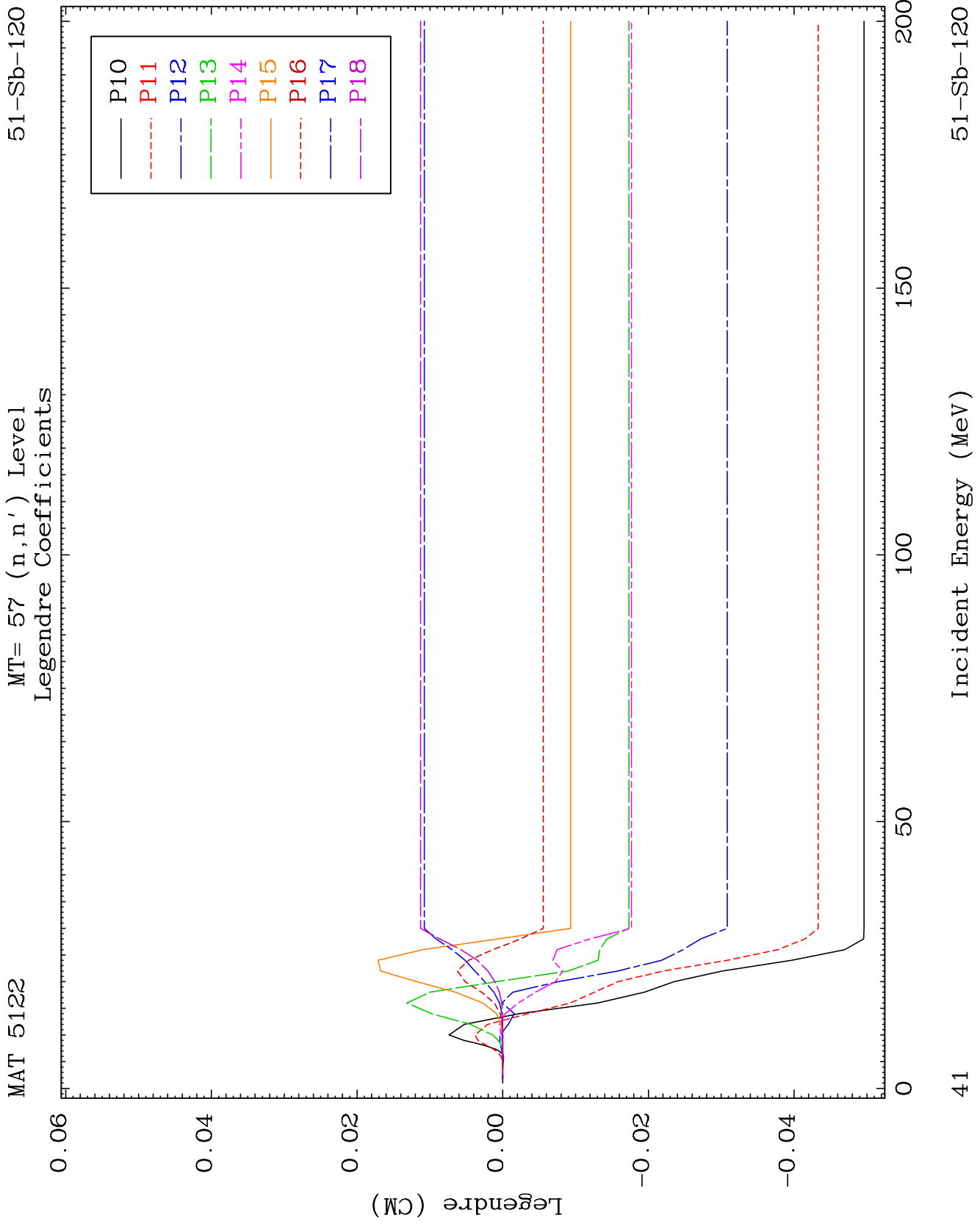
Incident Energy (MeV)

51-Sb-120







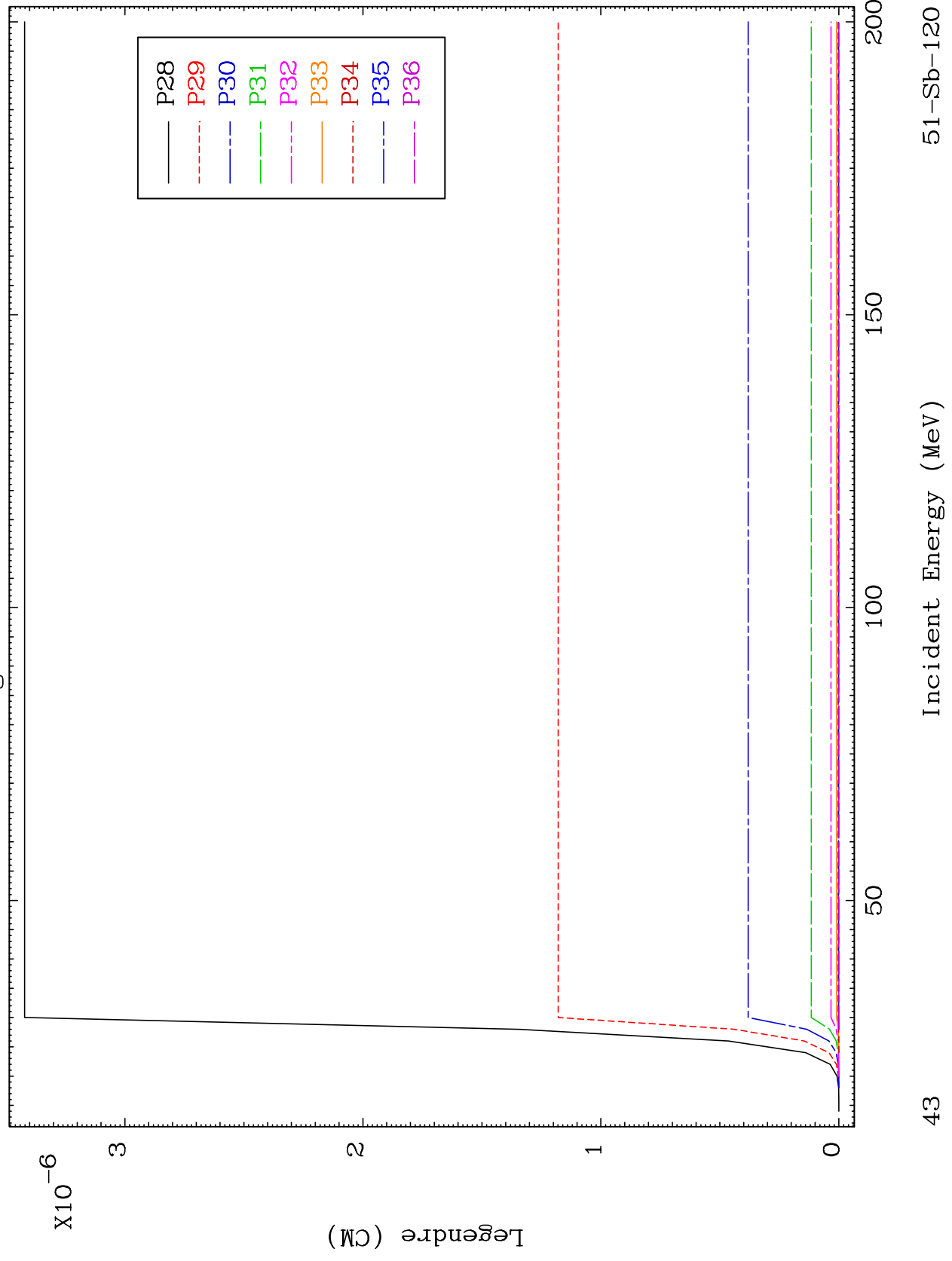




MAT 5122

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

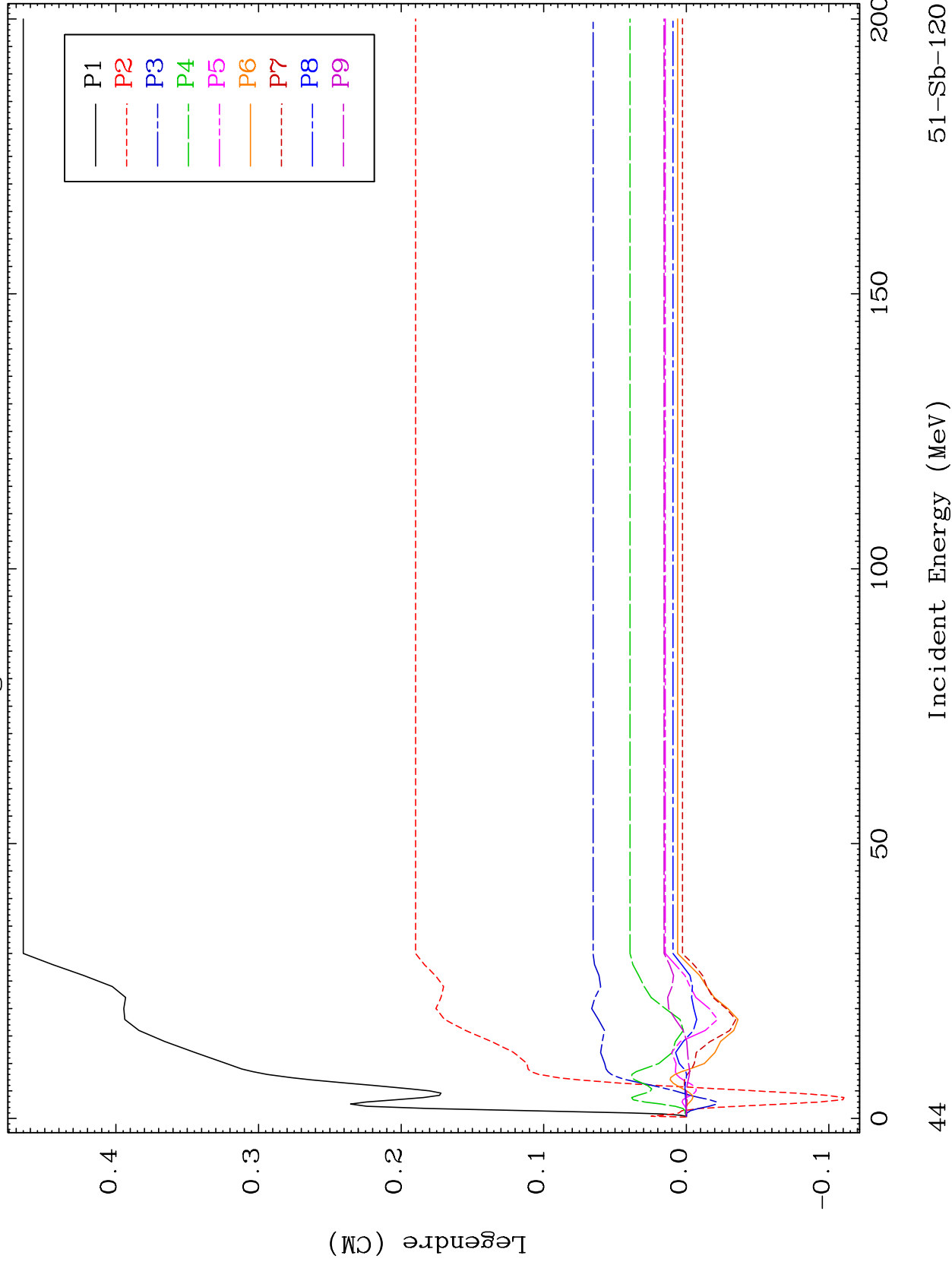
51-Sb-120



MAT 5122

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

51-Sb-120



51-Sb-120

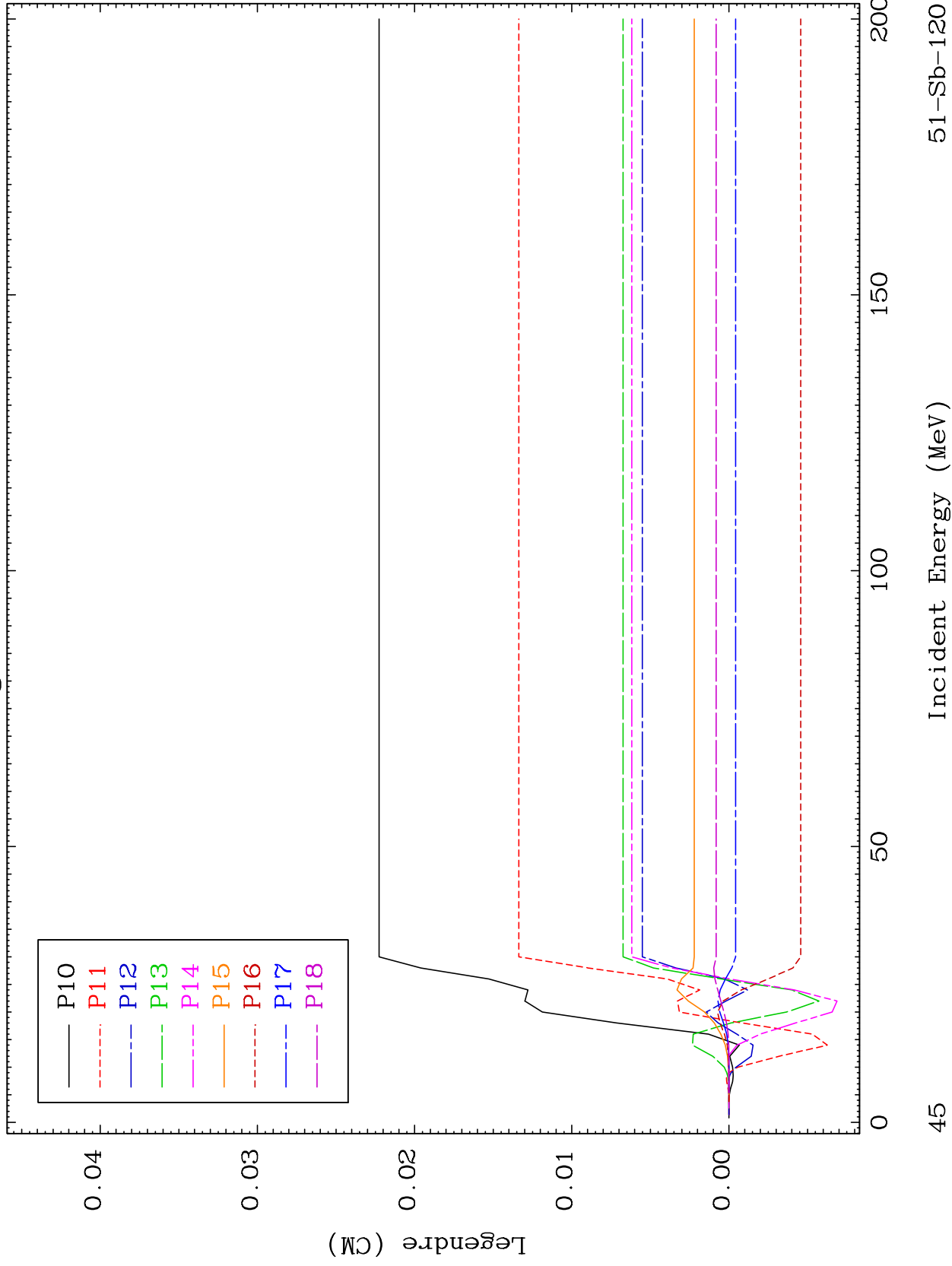
Incident Energy (MeV)

44

MAT 51222

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

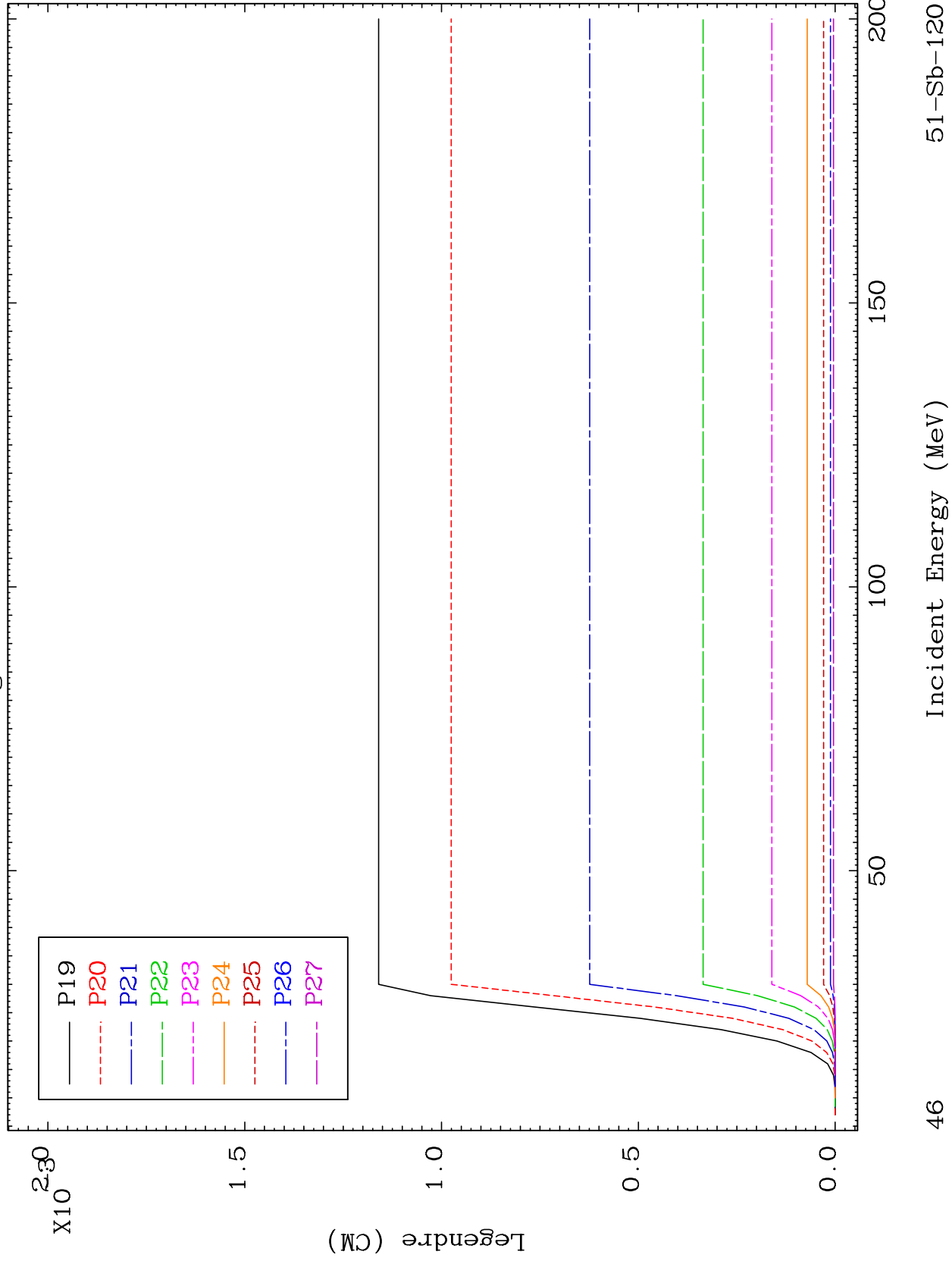
51-Sb-120



MAT 51222

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

51-Sb-120



46

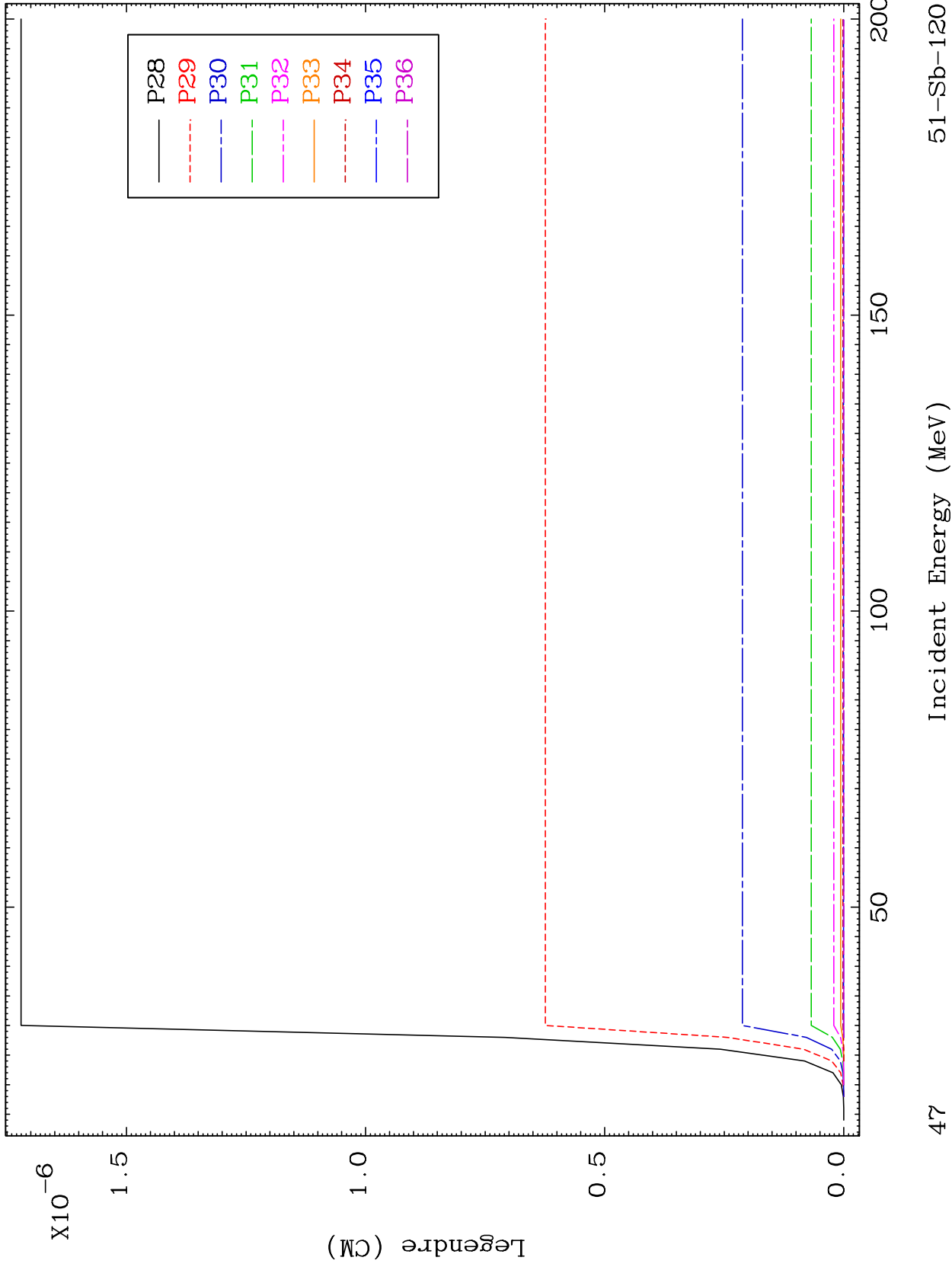
Incident Energy (MeV)

51-Sb-120

MAT 5122

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

51-Sb-120



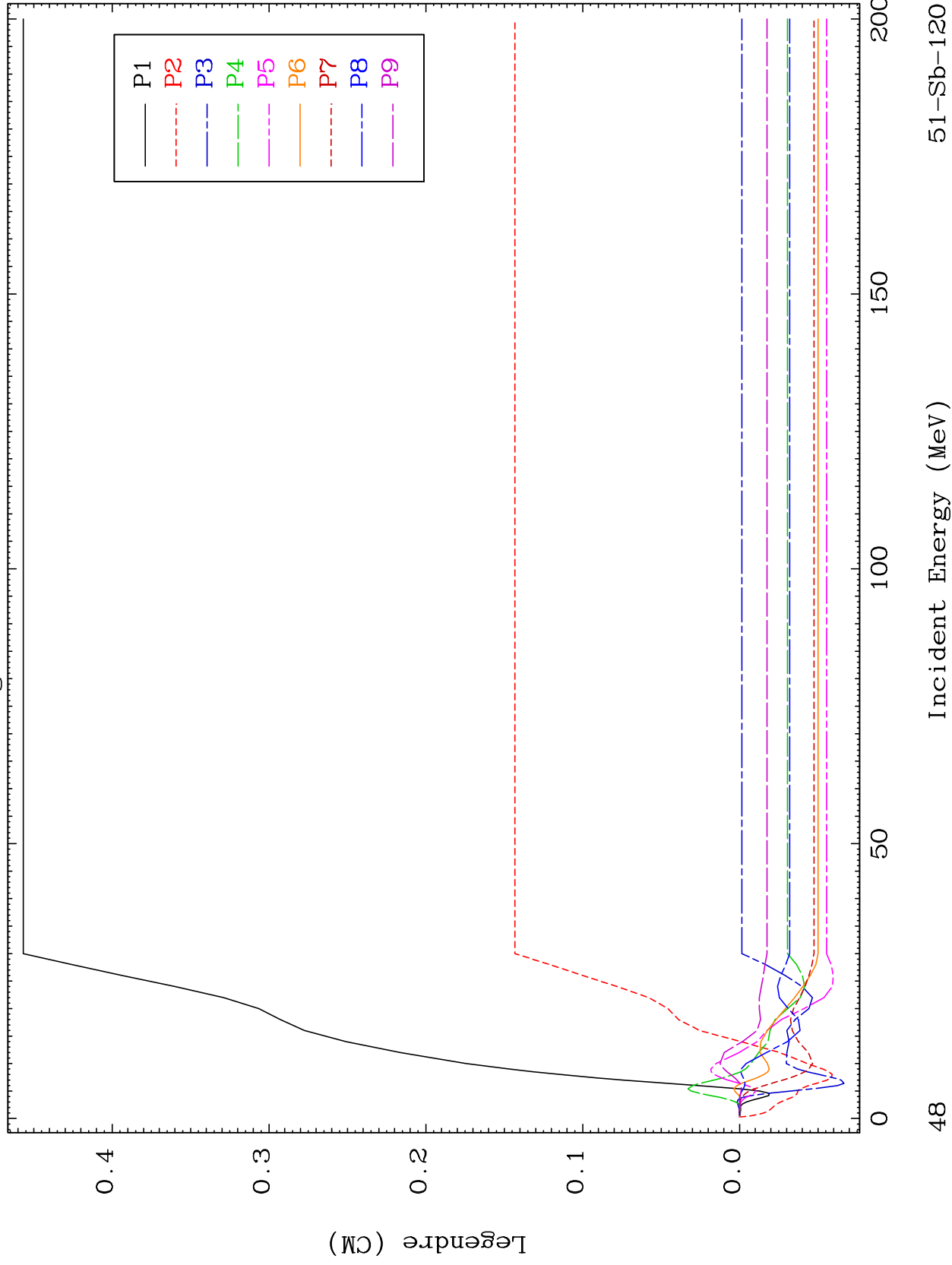
47



MAT 5122

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

51-Sb-120



51-Sb-120

Incident Energy (MeV)

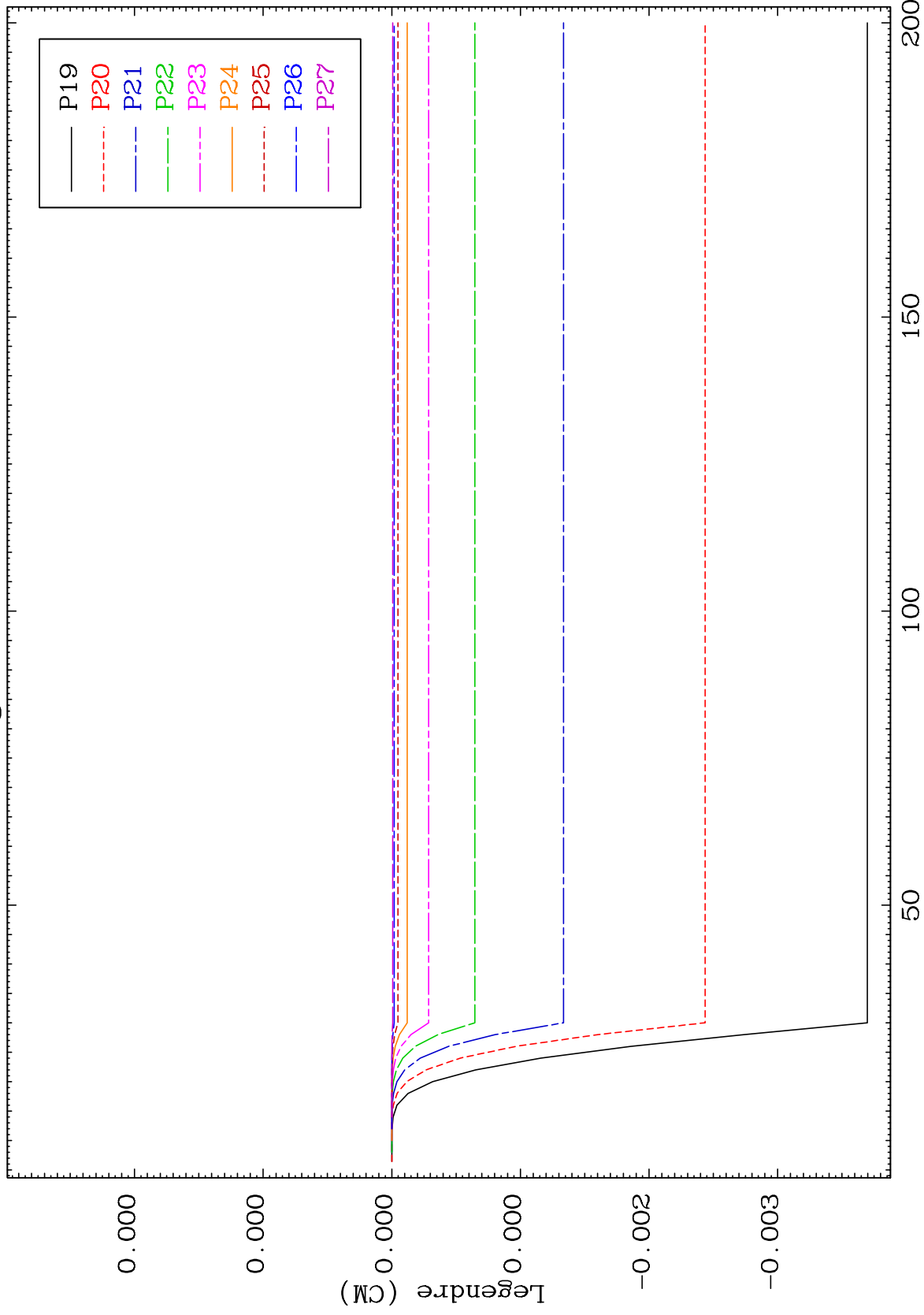
48



MAT 5122

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

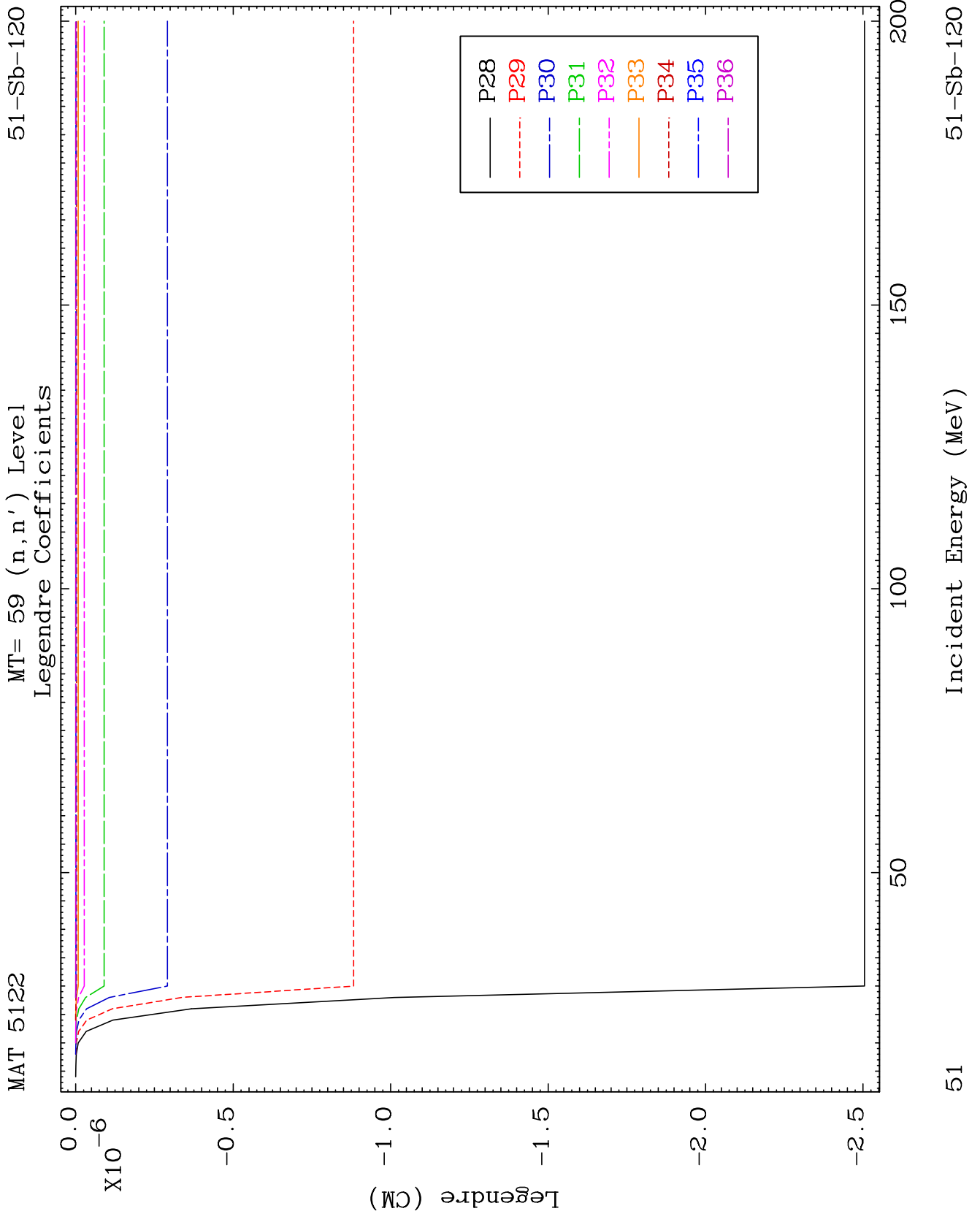
51-Sb-120



50

Incident Energy (MeV)

51-Sb-120

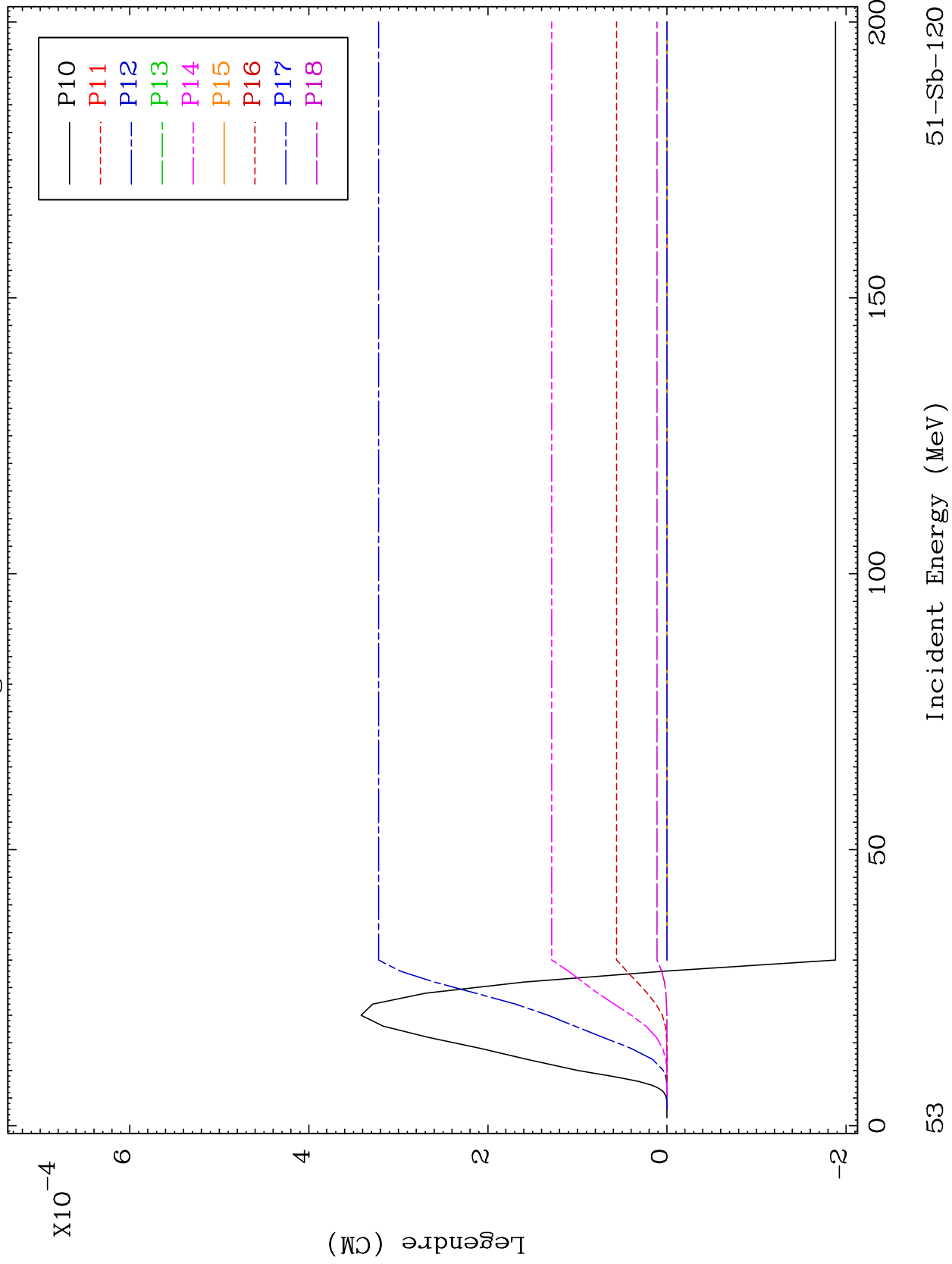




MAT 5122

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

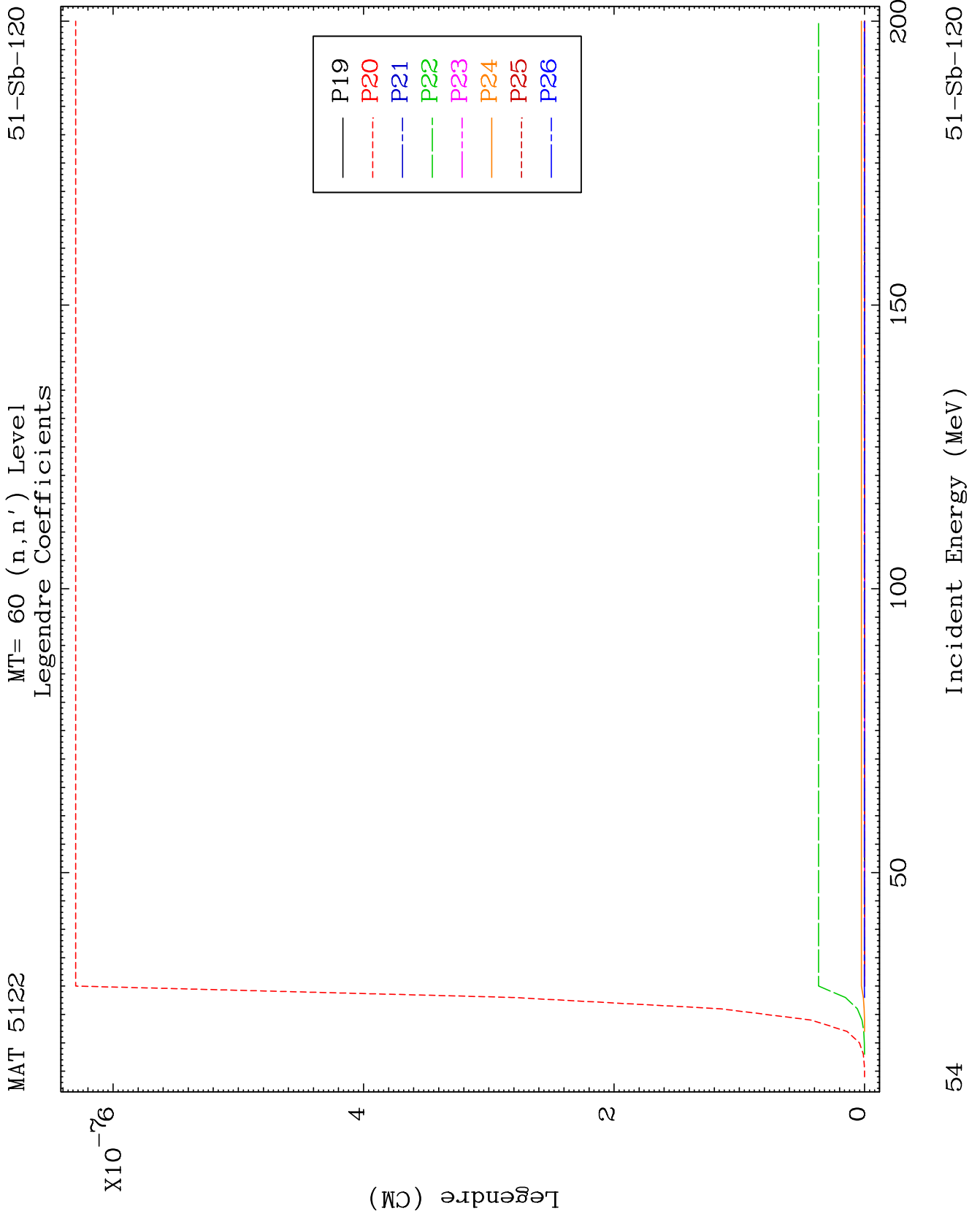
51-Sb-120



53

Incident Energy (MeV)

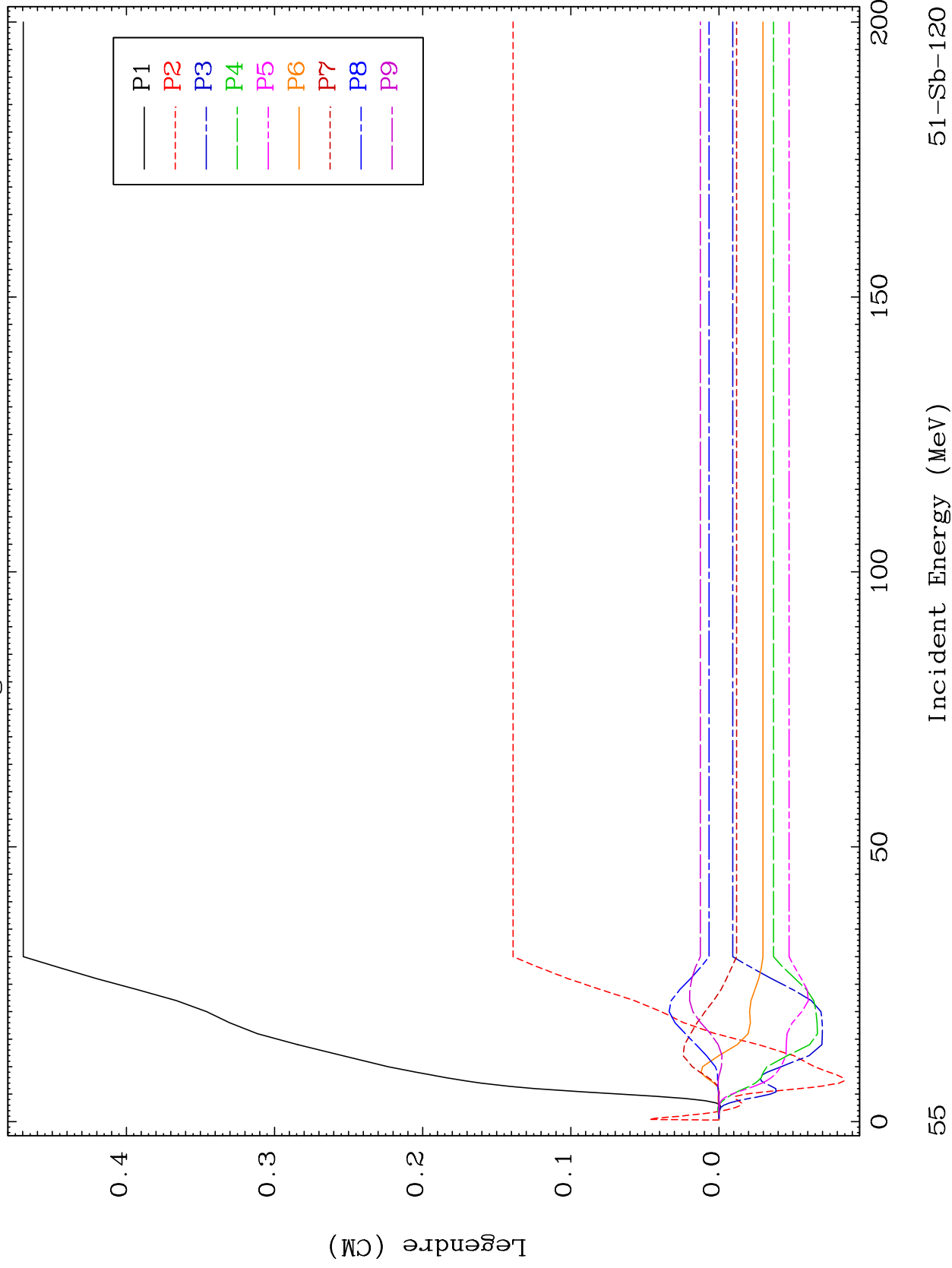
51-Sb-120



MAT 5122

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

51-Sb-120

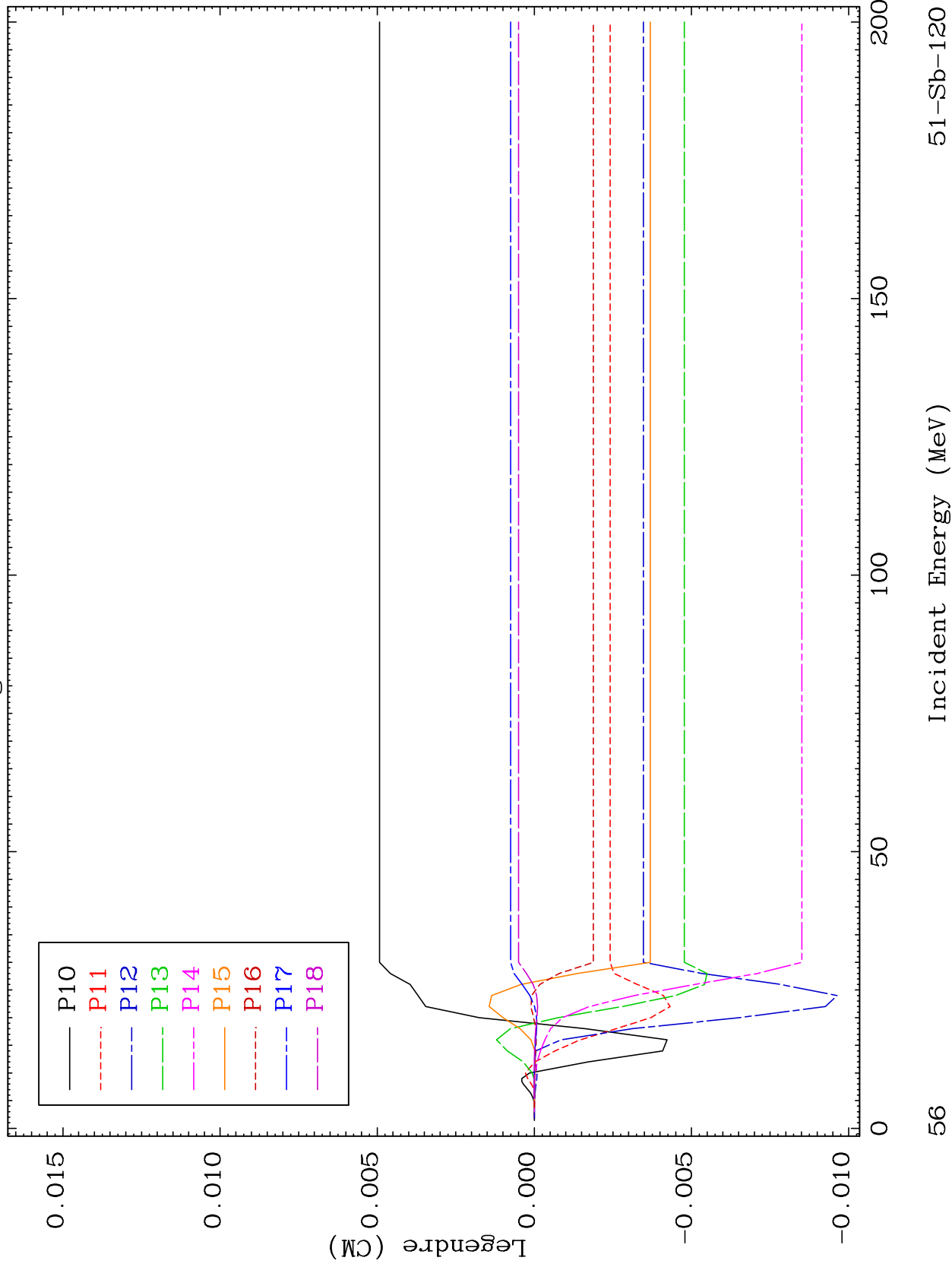


51-Sb-120

Incident Energy (MeV)

55

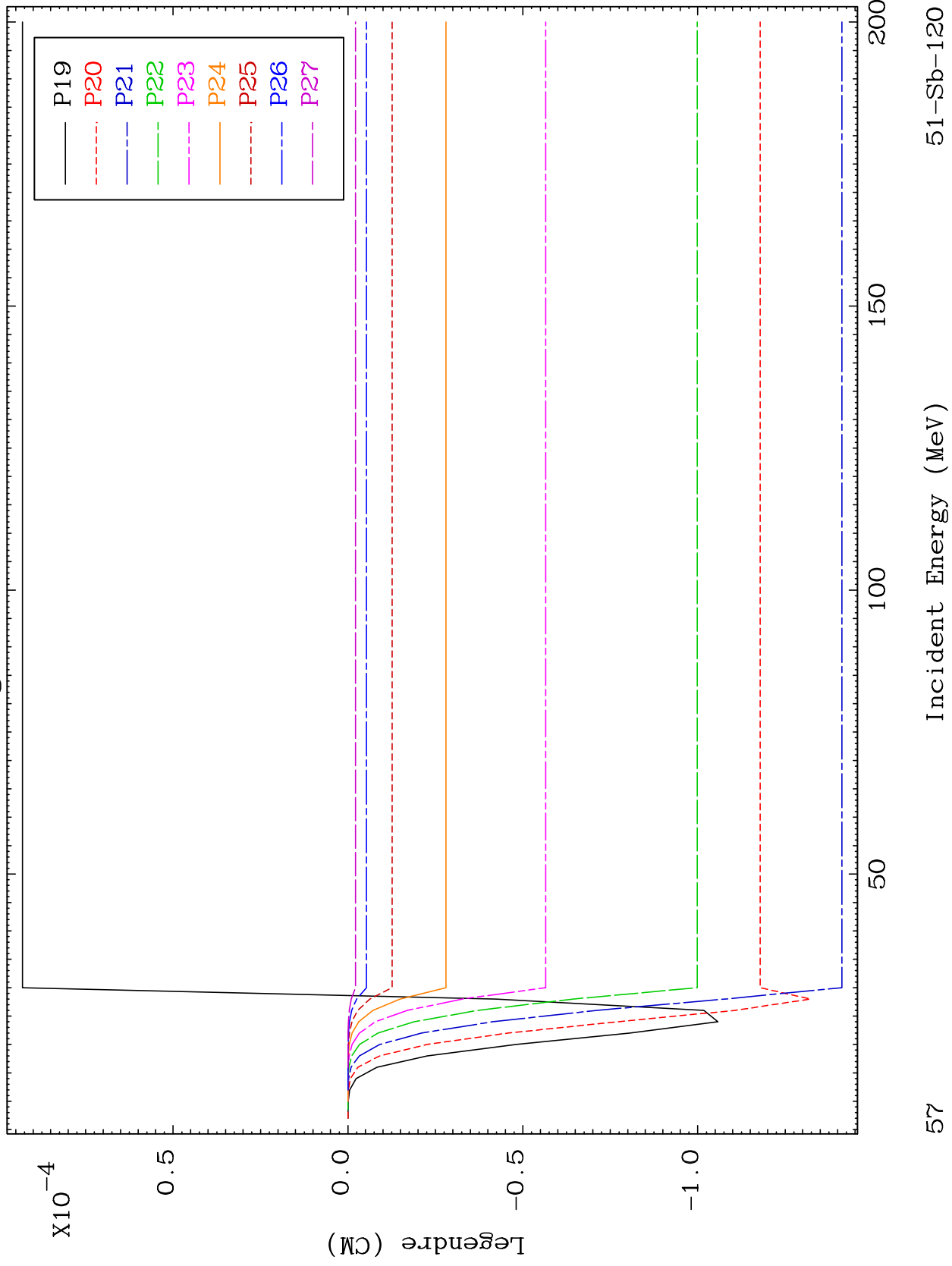




MAT 5122

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

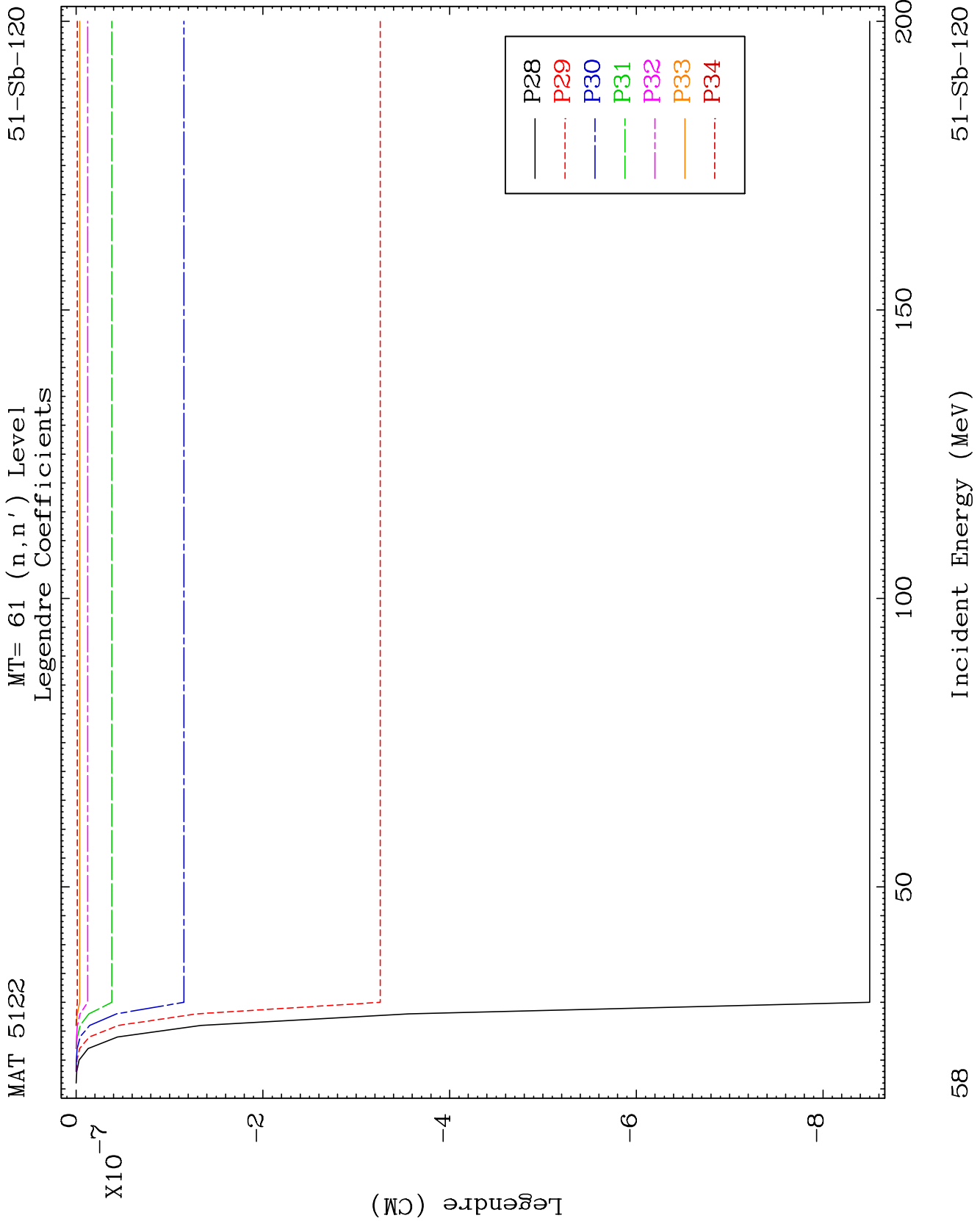
51-Sb-120



57

Incident Energy (MeV)

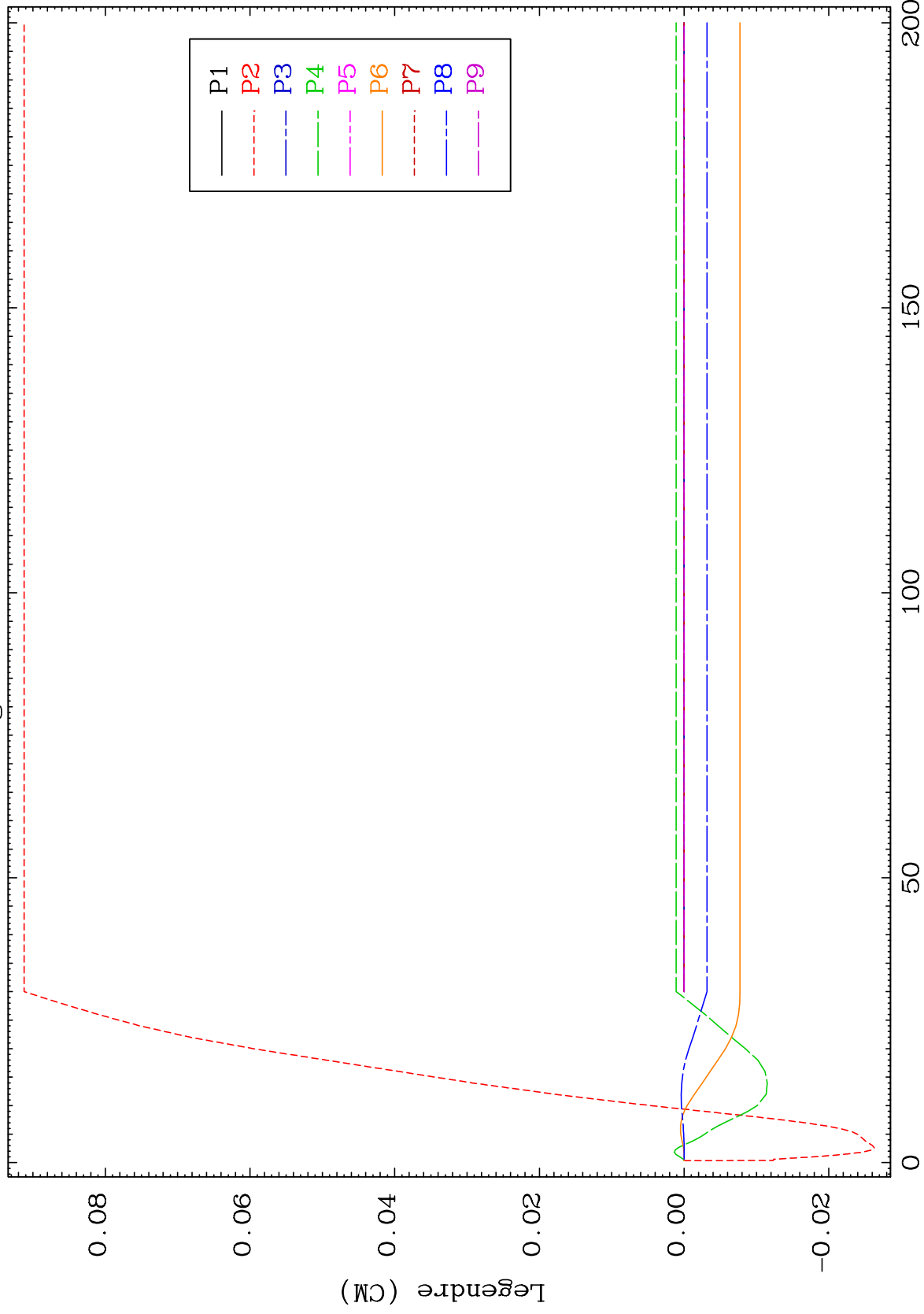
51-Sb-120



MAT 5122

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

51-Sb-120

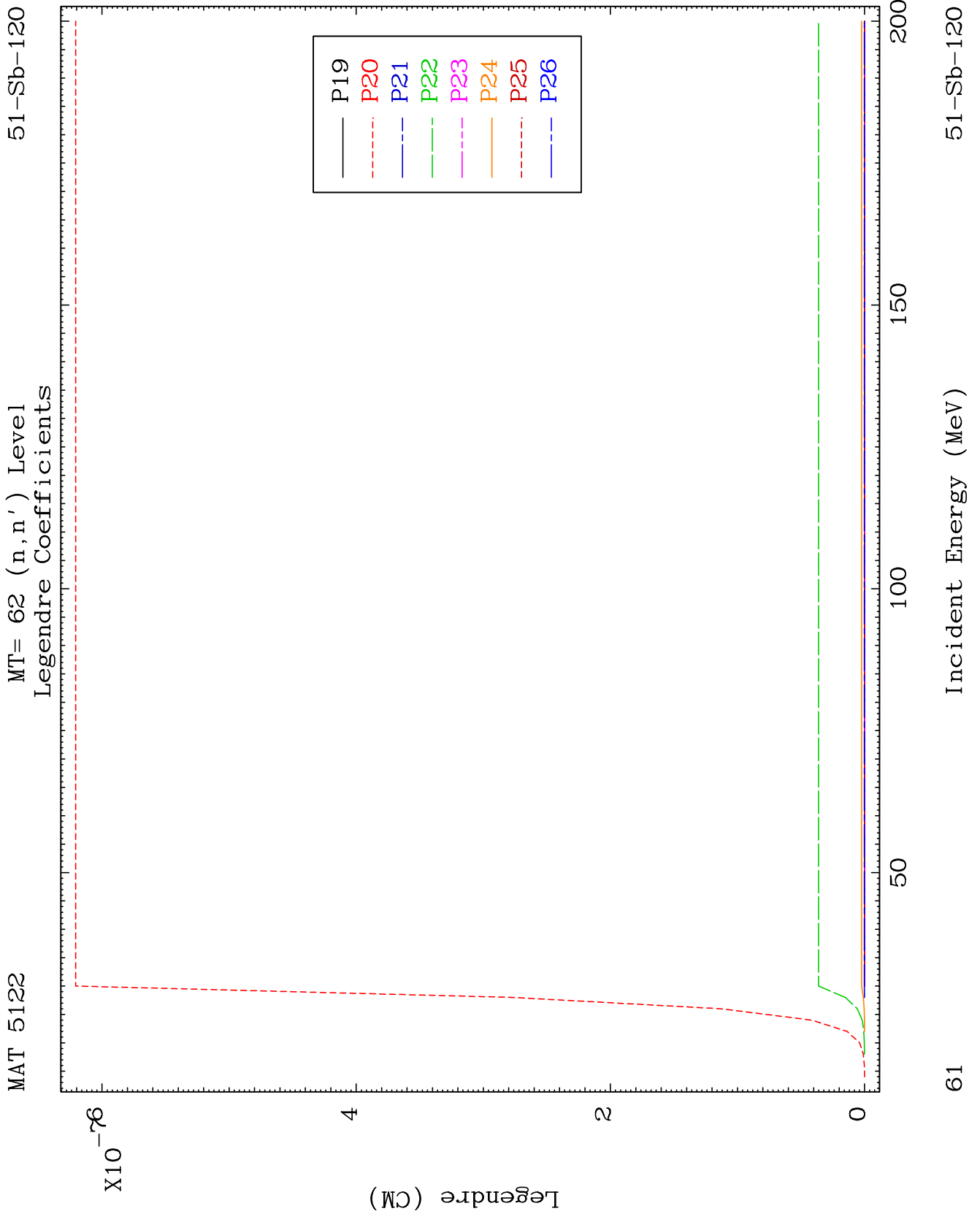


51-Sb-120

Incident Energy (MeV)

59

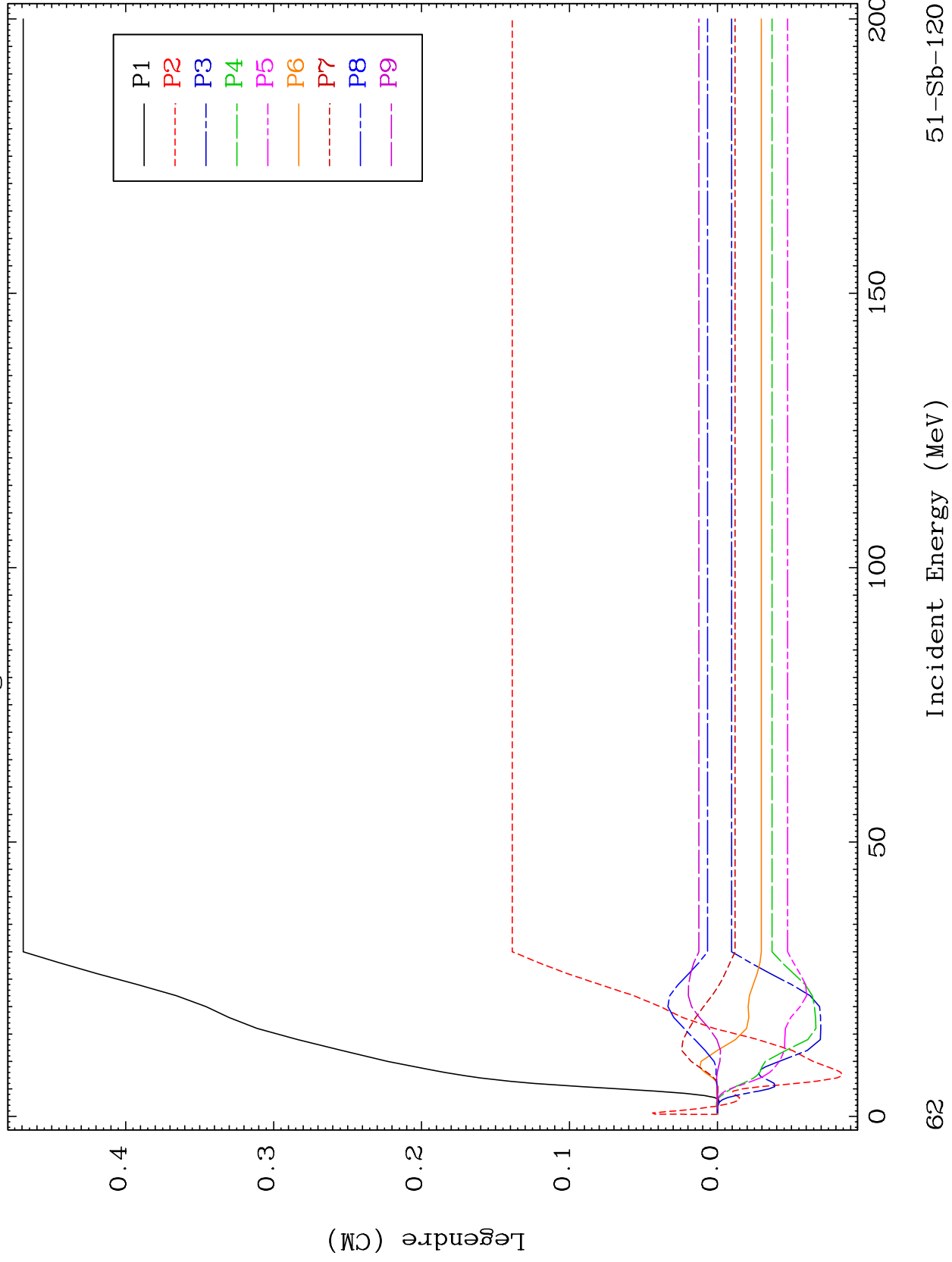




MAT 5122

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

51-Sb-120



51-Sb-120

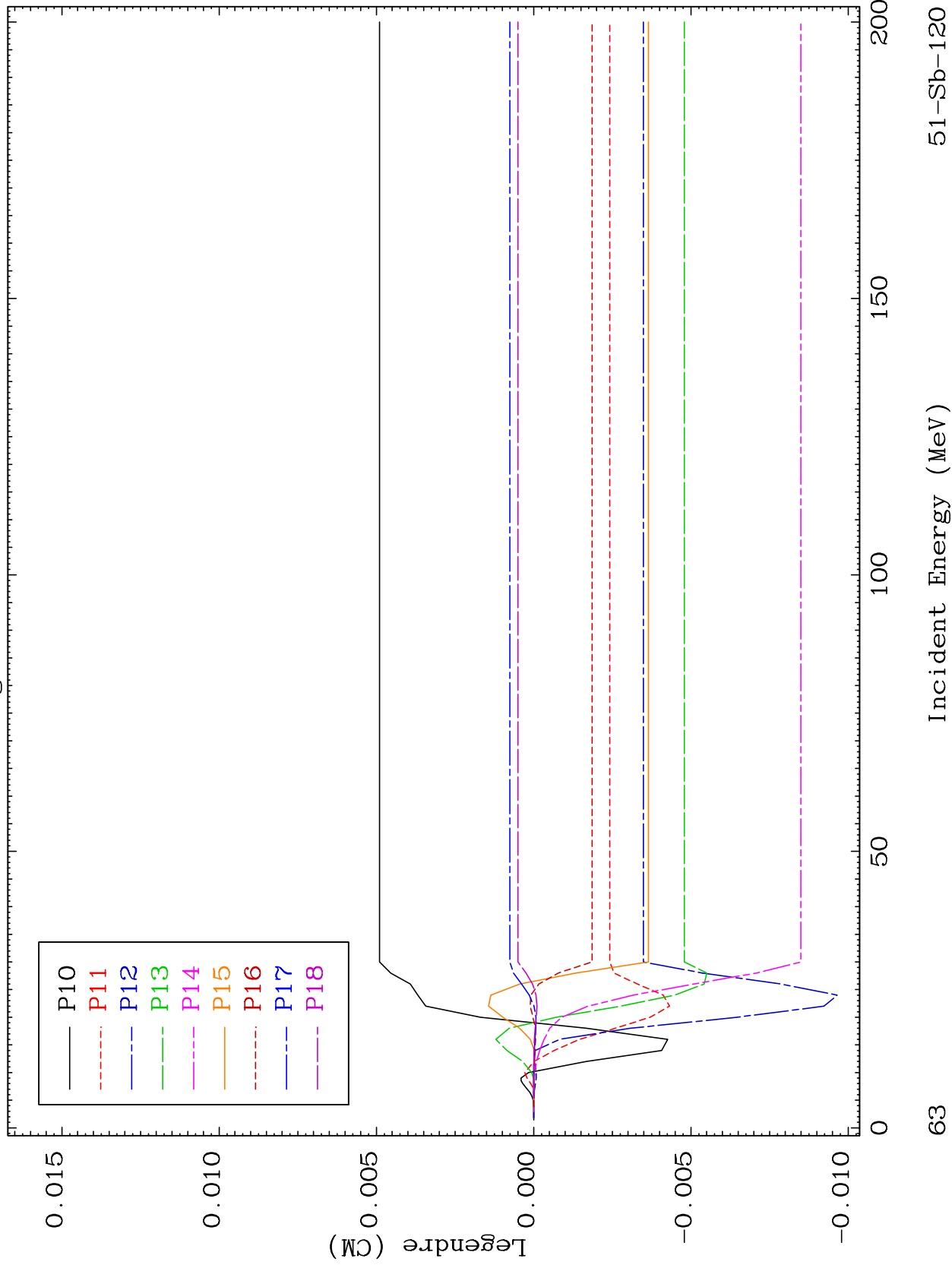
Incident Energy (MeV)

62

MAT 5122

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

51-Sb-120



63

Incident Energy (MeV)

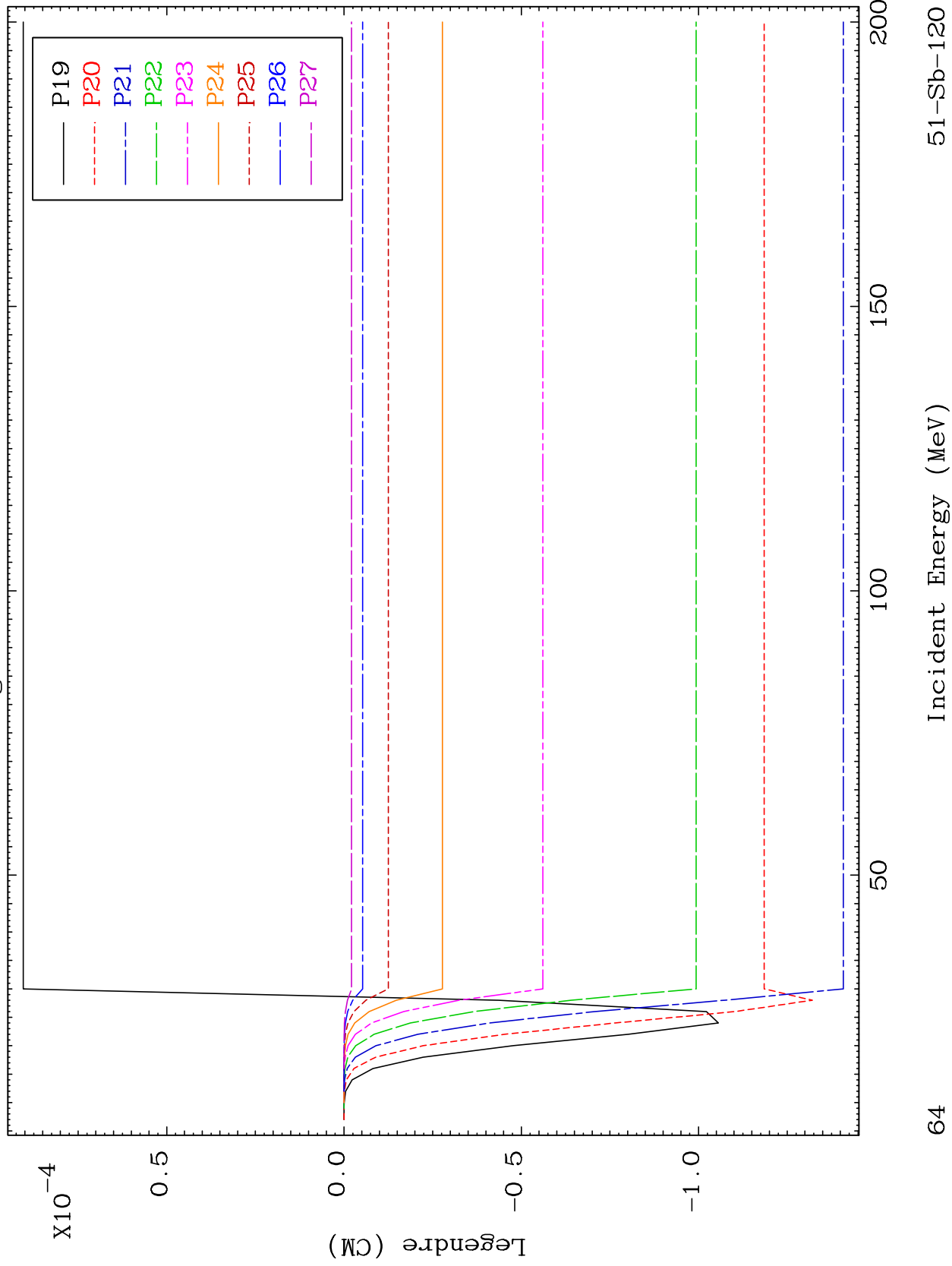
51-Sb-120



MAT 5122

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

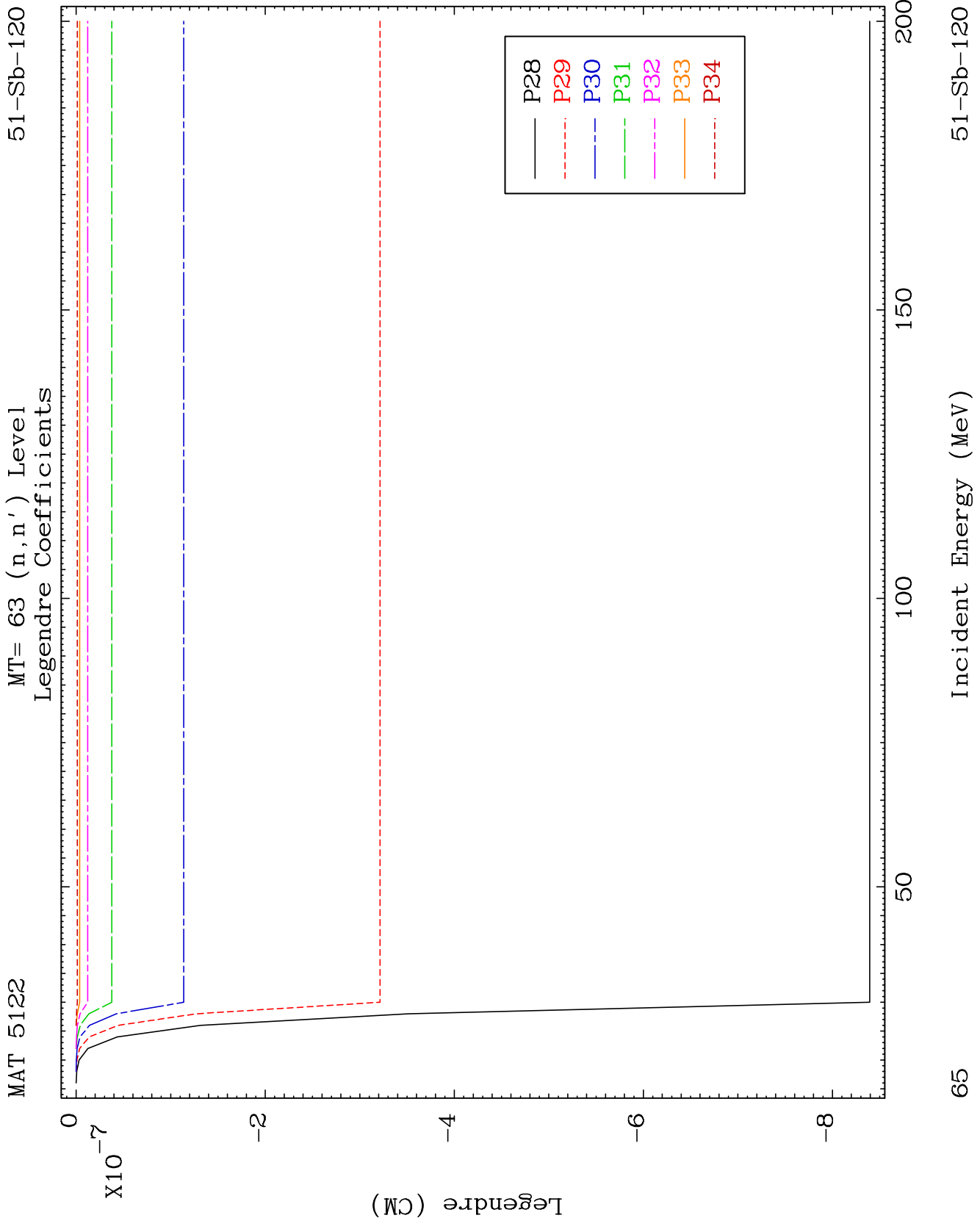
51-Sb-120



64

Incident Energy (MeV)

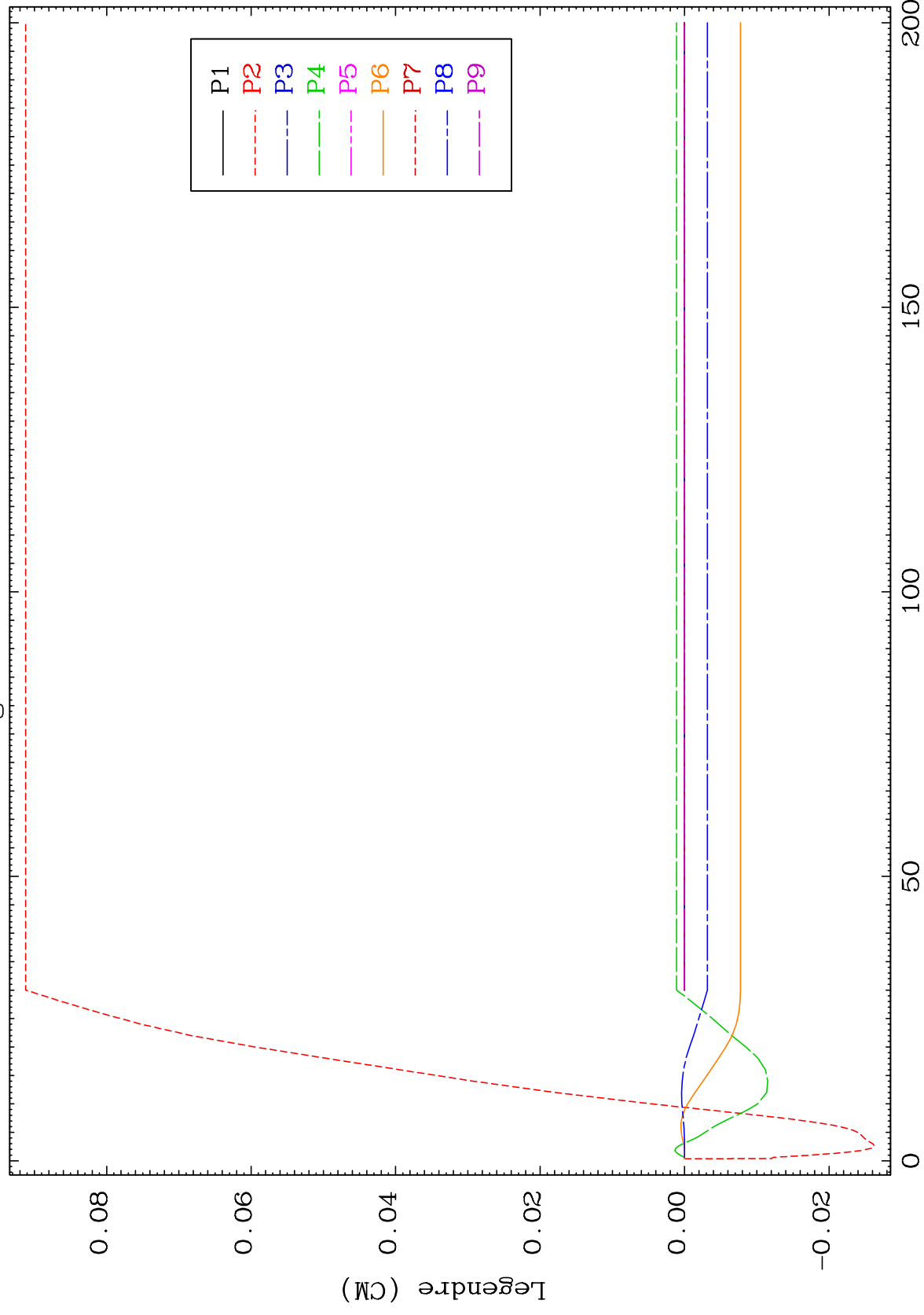
51-Sb-120



MAT 5122

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

51-Sb-120



66

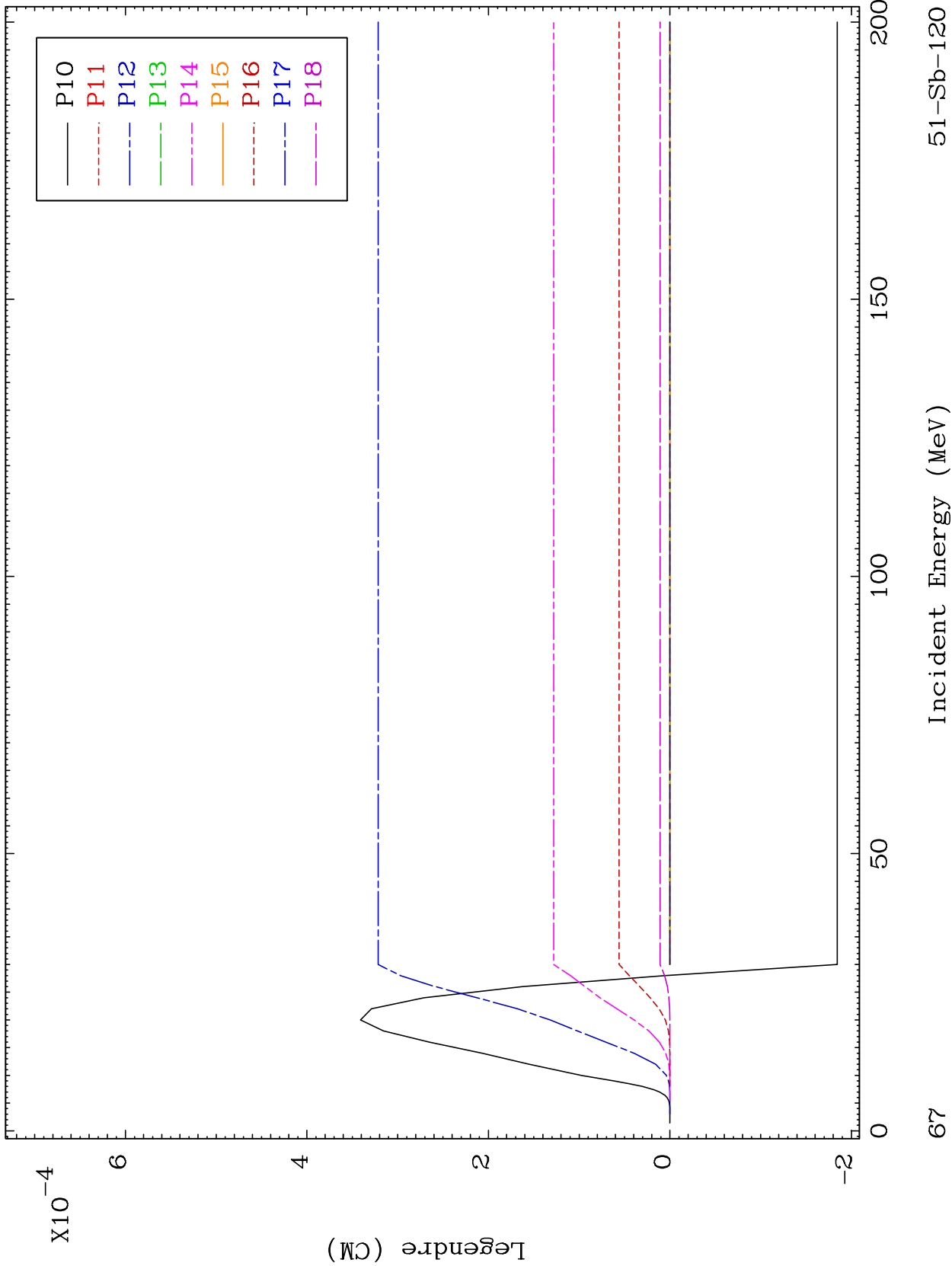
Incident Energy (MeV)

51-Sb-120

MAT 5122

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

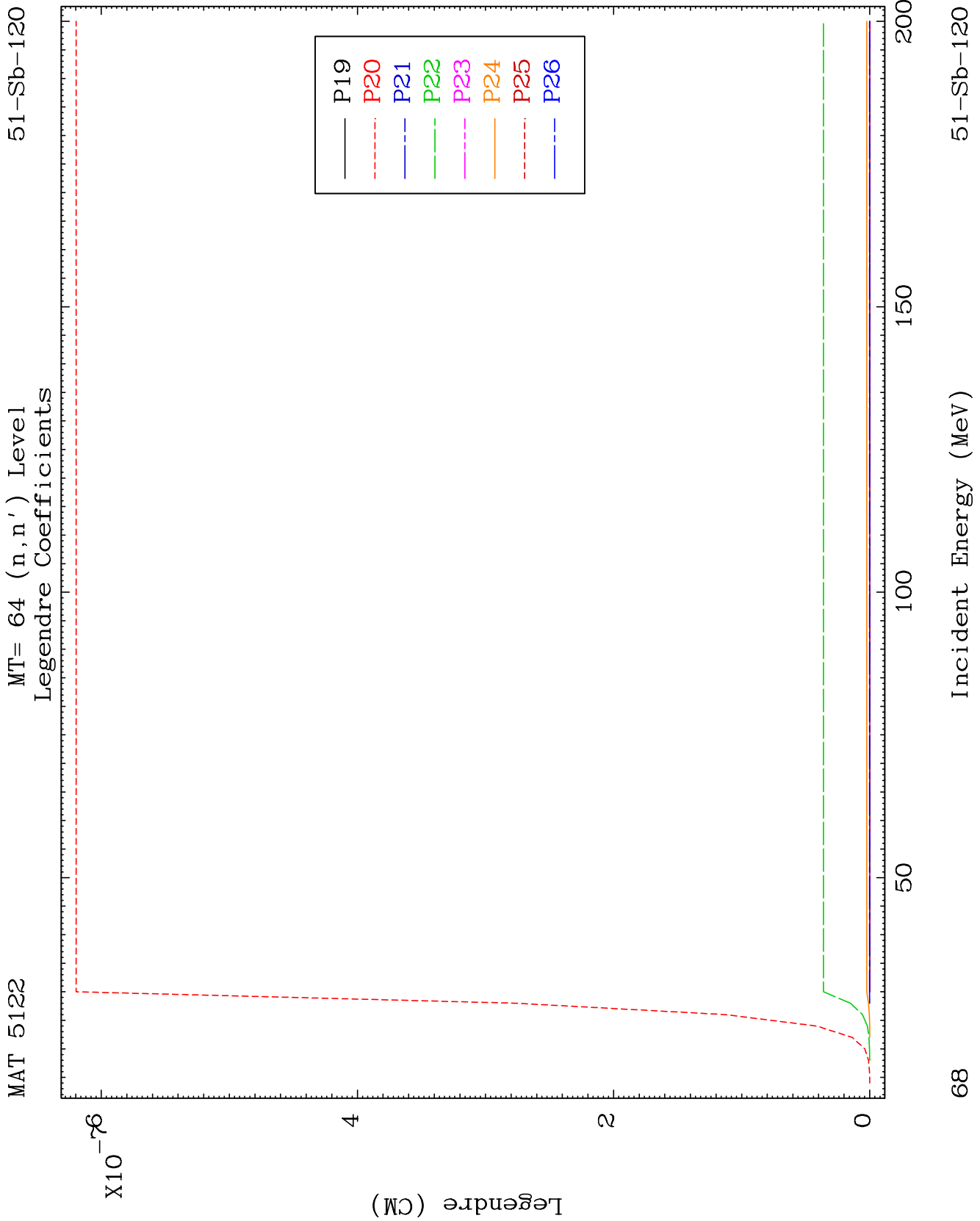
51-Sb-120



67

Incident Energy (MeV)

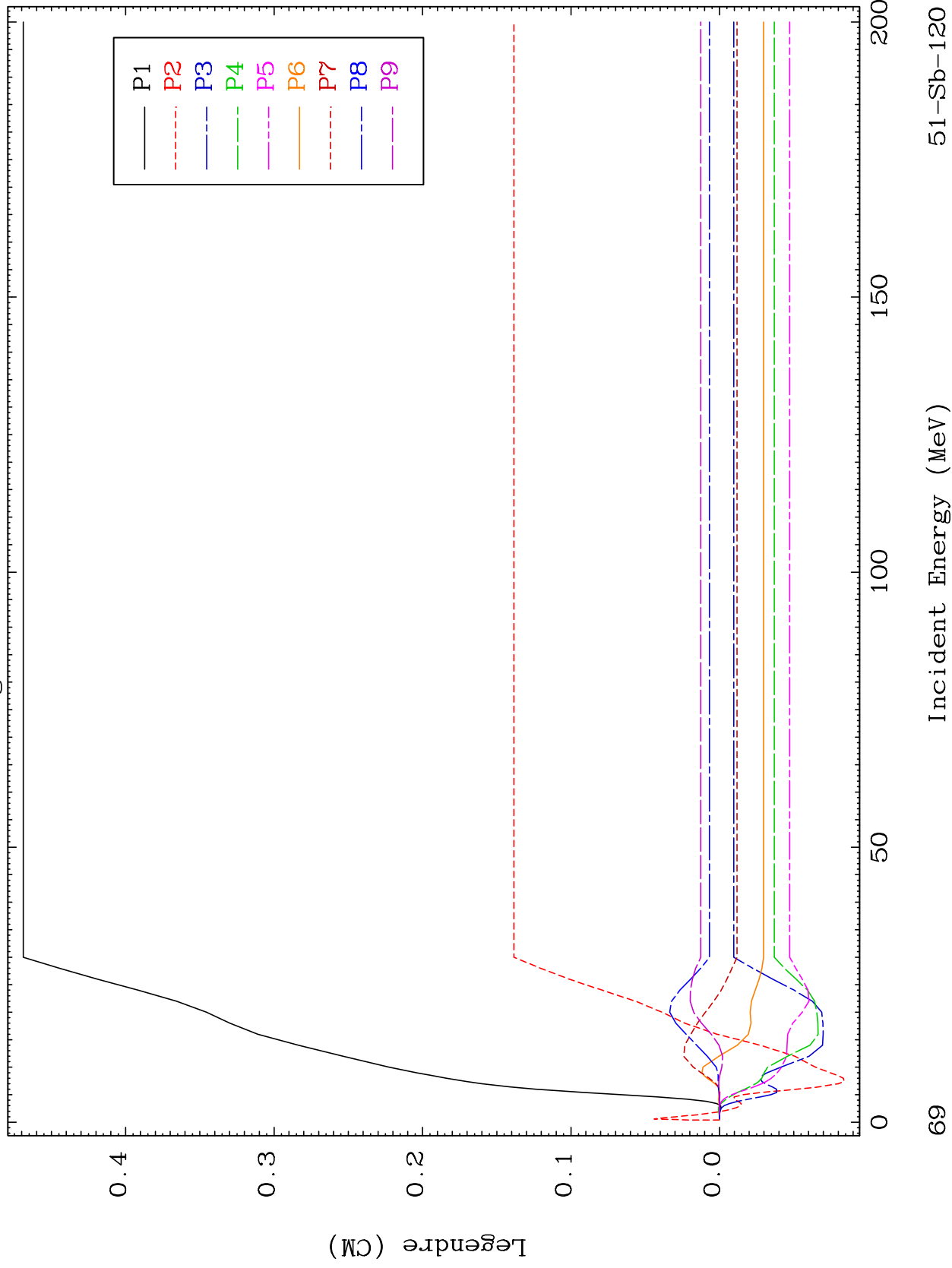
51-Sb-120



MAT 5122

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

51-Sb-120



51-Sb-120

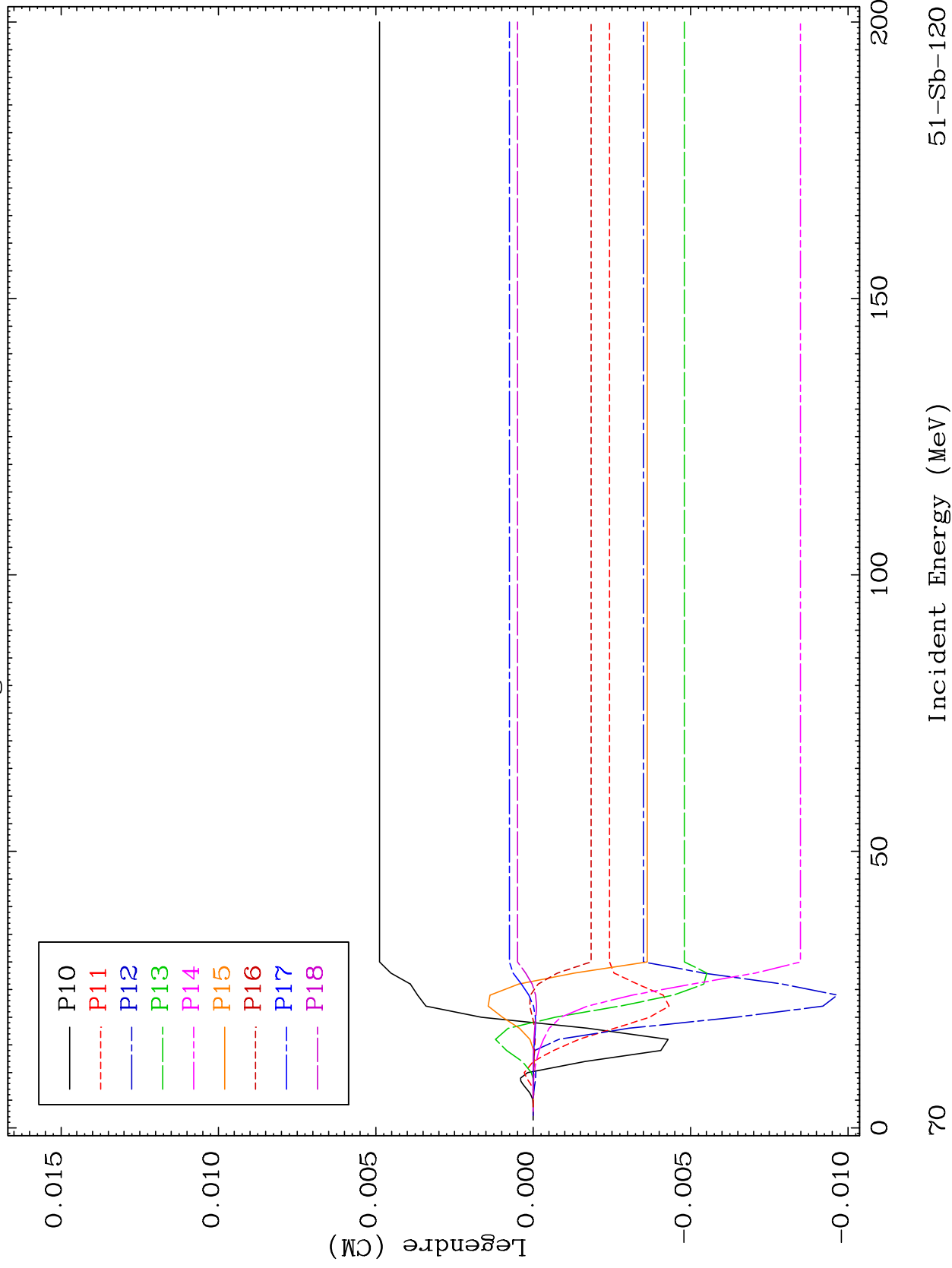
Incident Energy (MeV)

69

MAT 5122

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

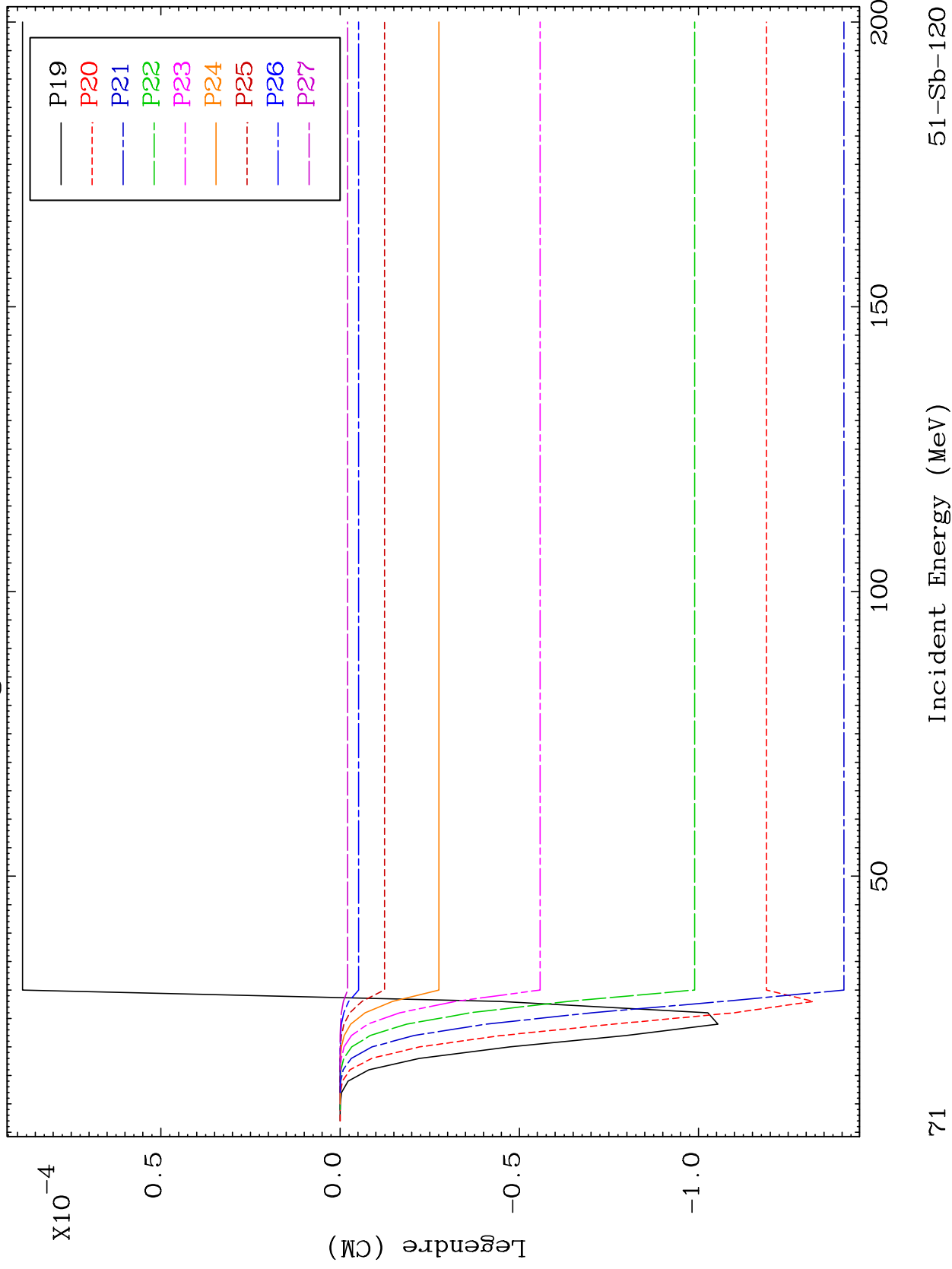
51-Sb-120



MAT 5122

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

51-Sb-120

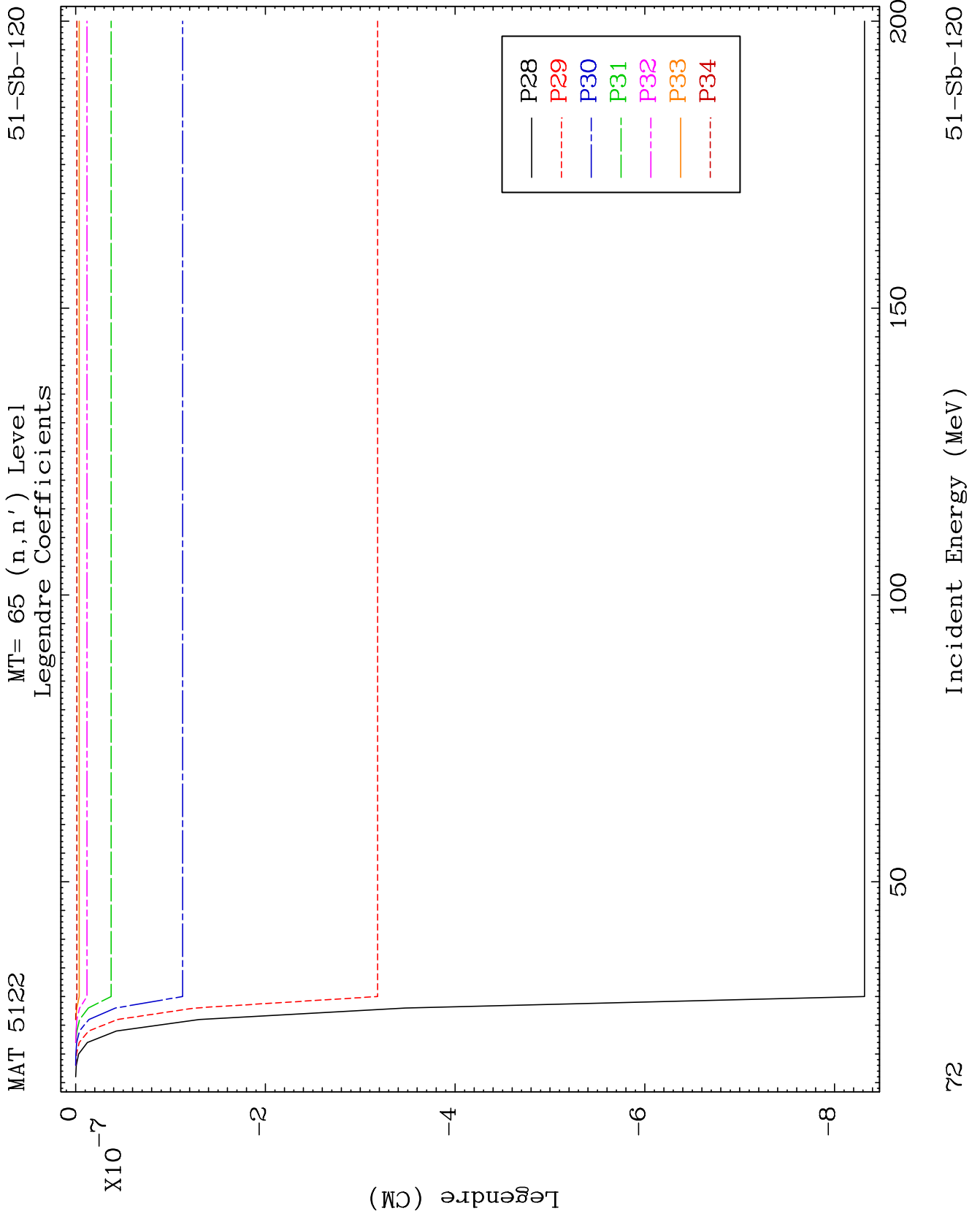


71

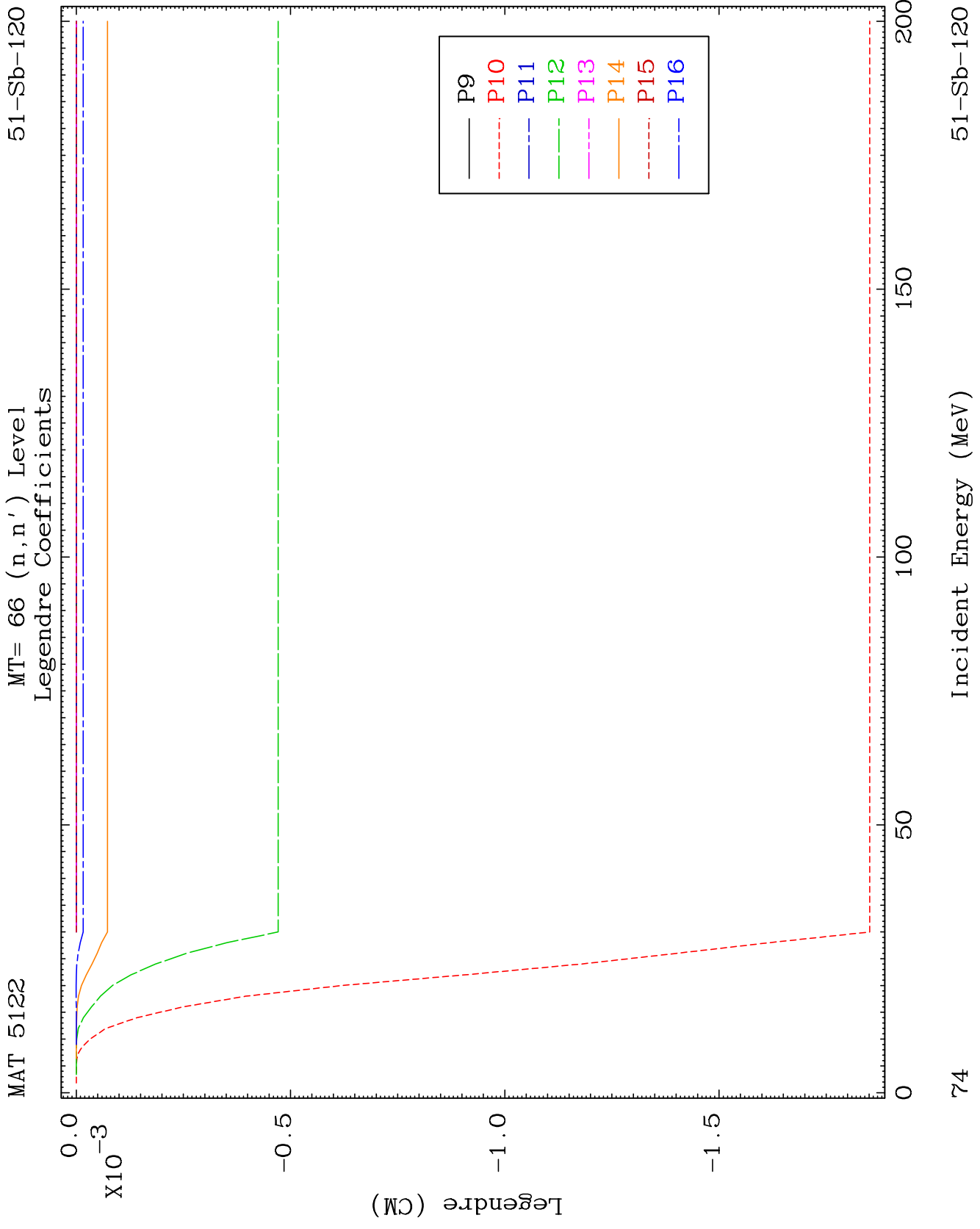
Incident Energy (MeV)

51-Sb-120

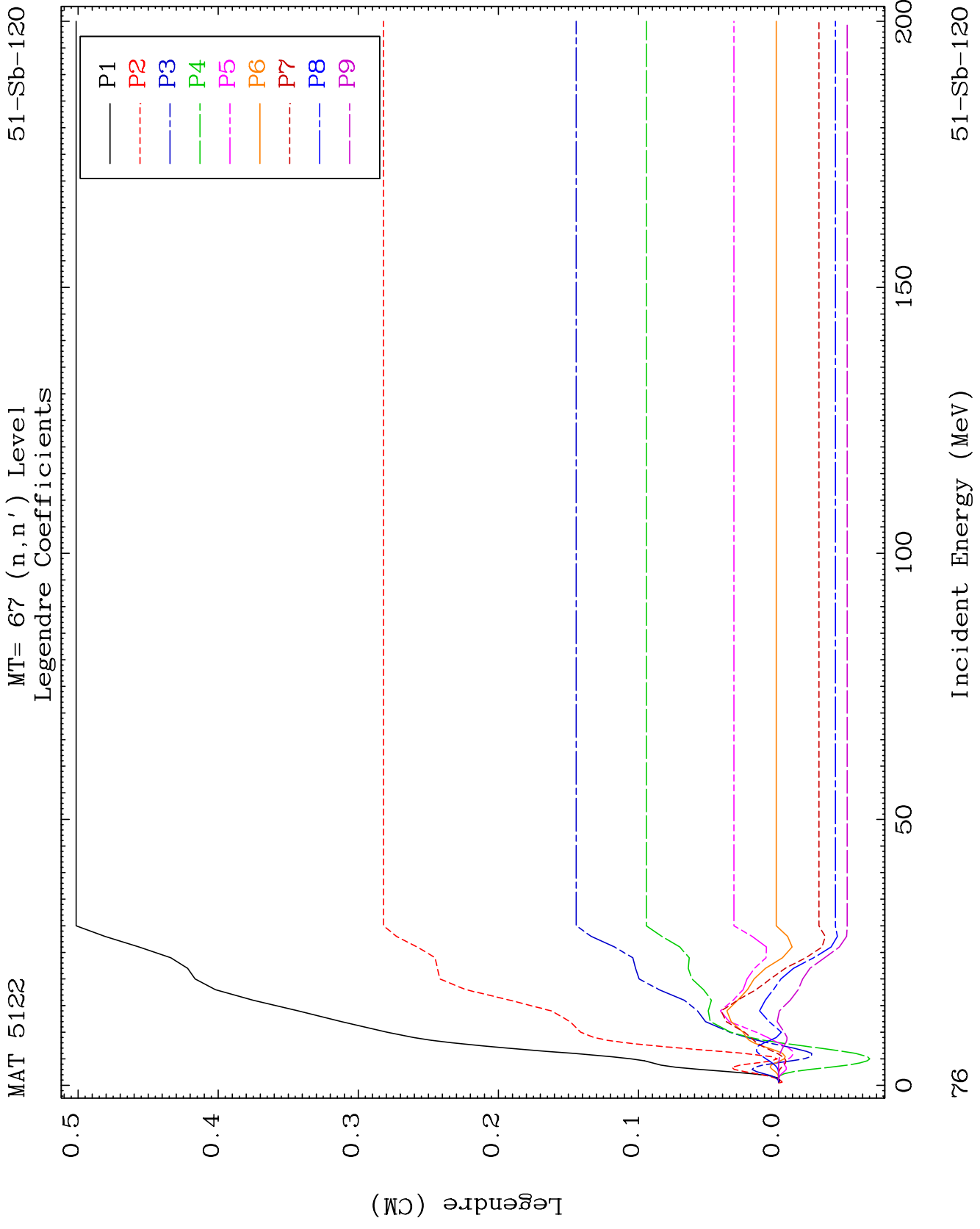


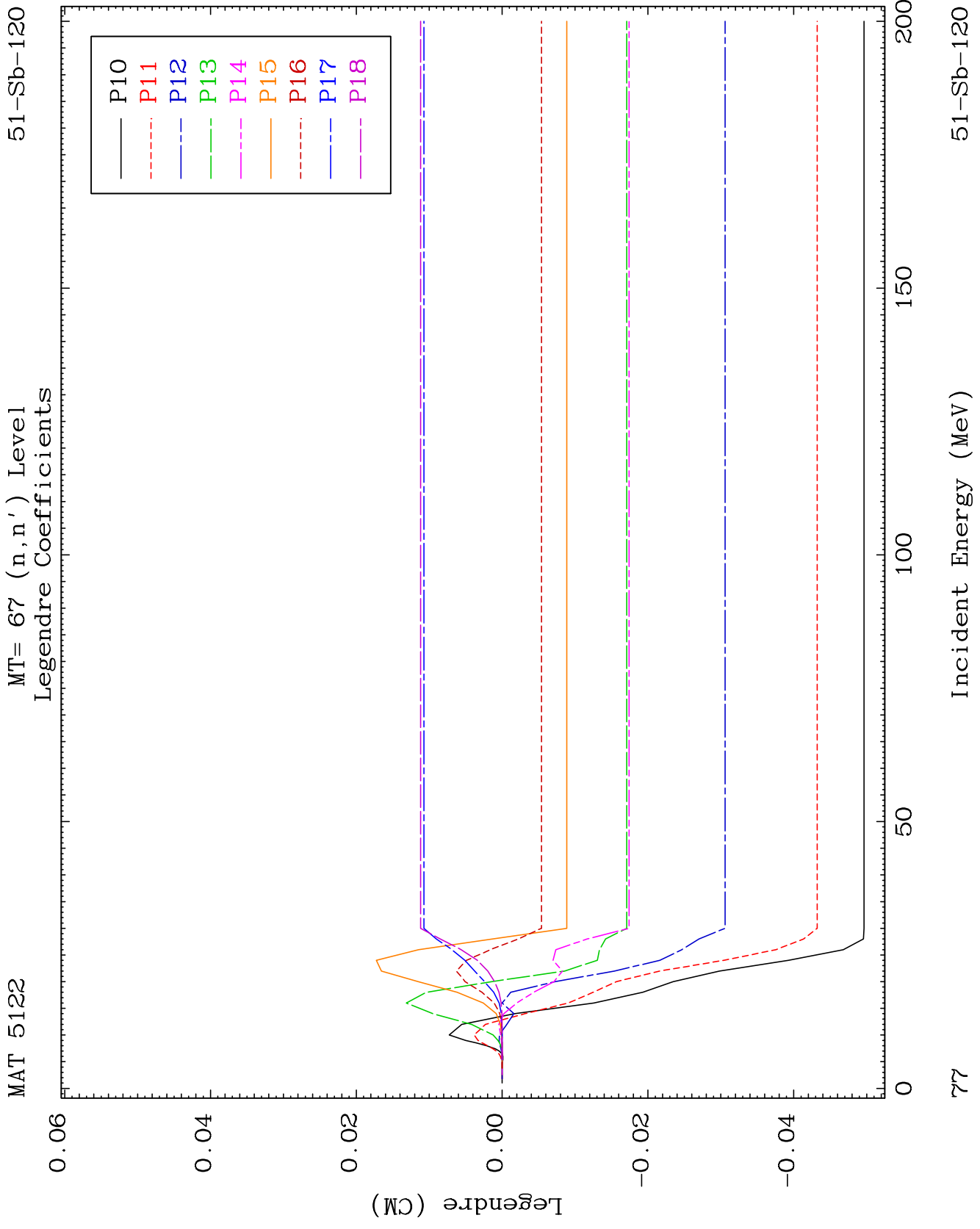








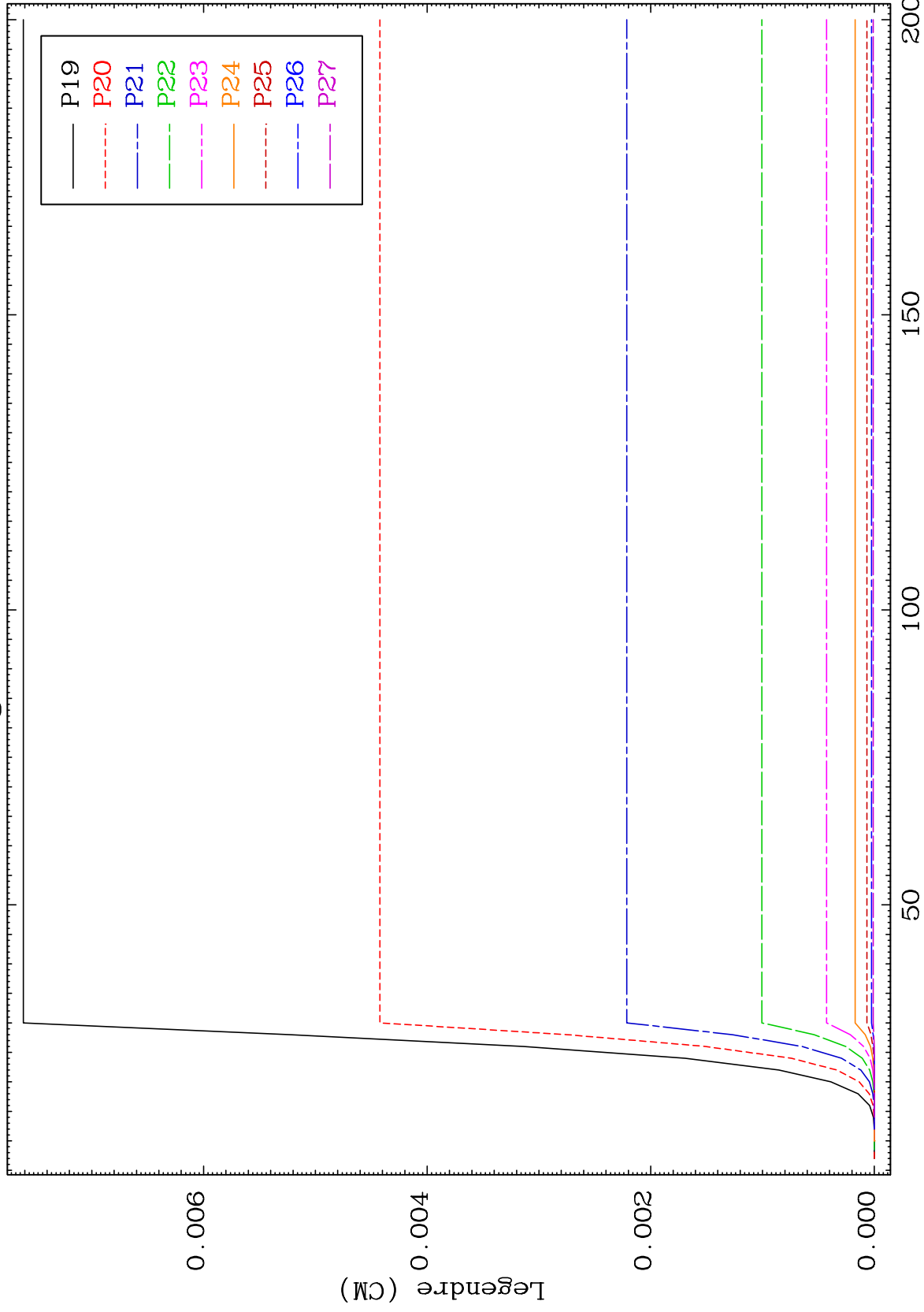




MAT 5122

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

51-Sb-120



78

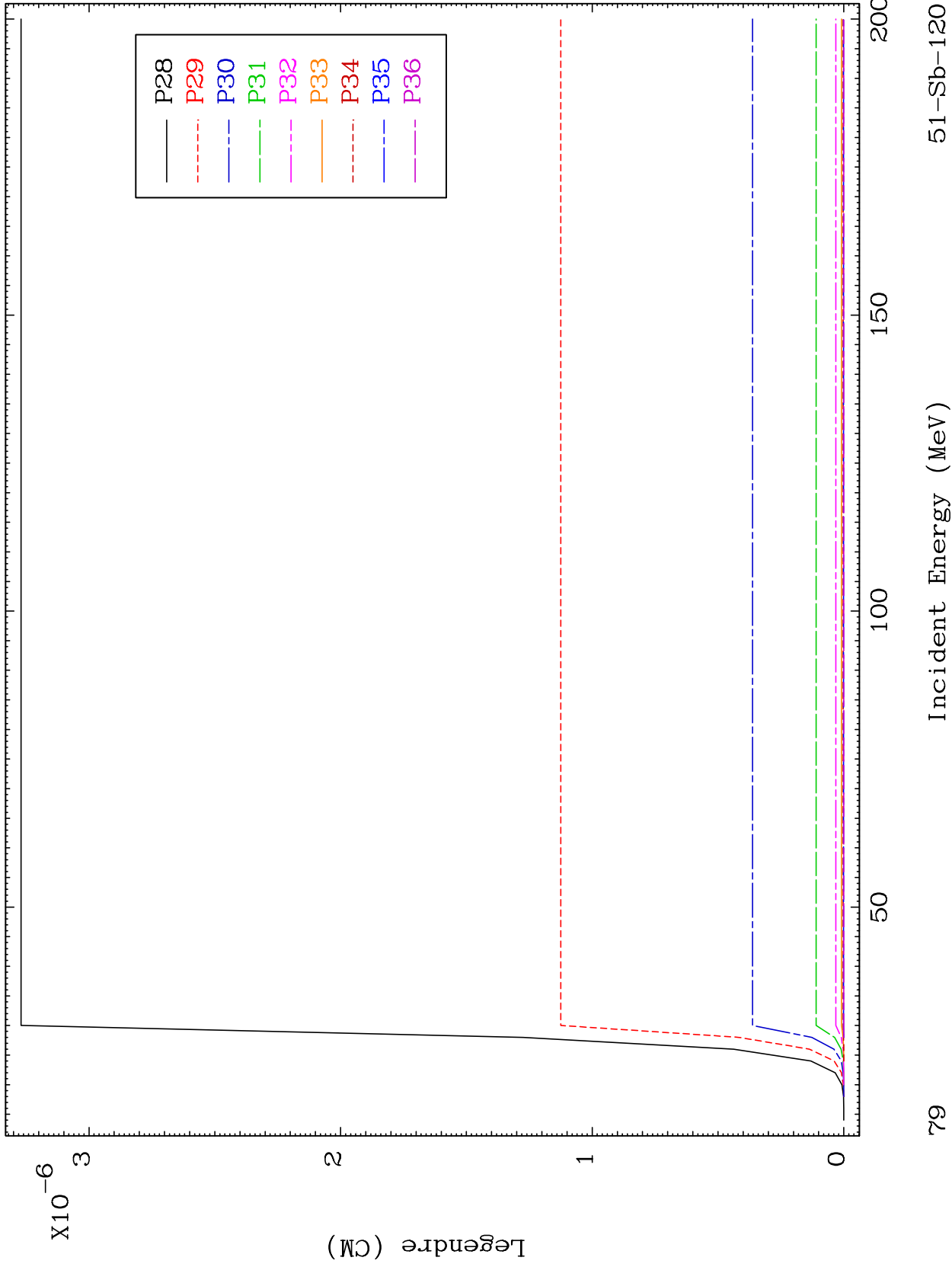
Incident Energy (MeV)

51-Sb-120

MAT 5122

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

51-Sb-120



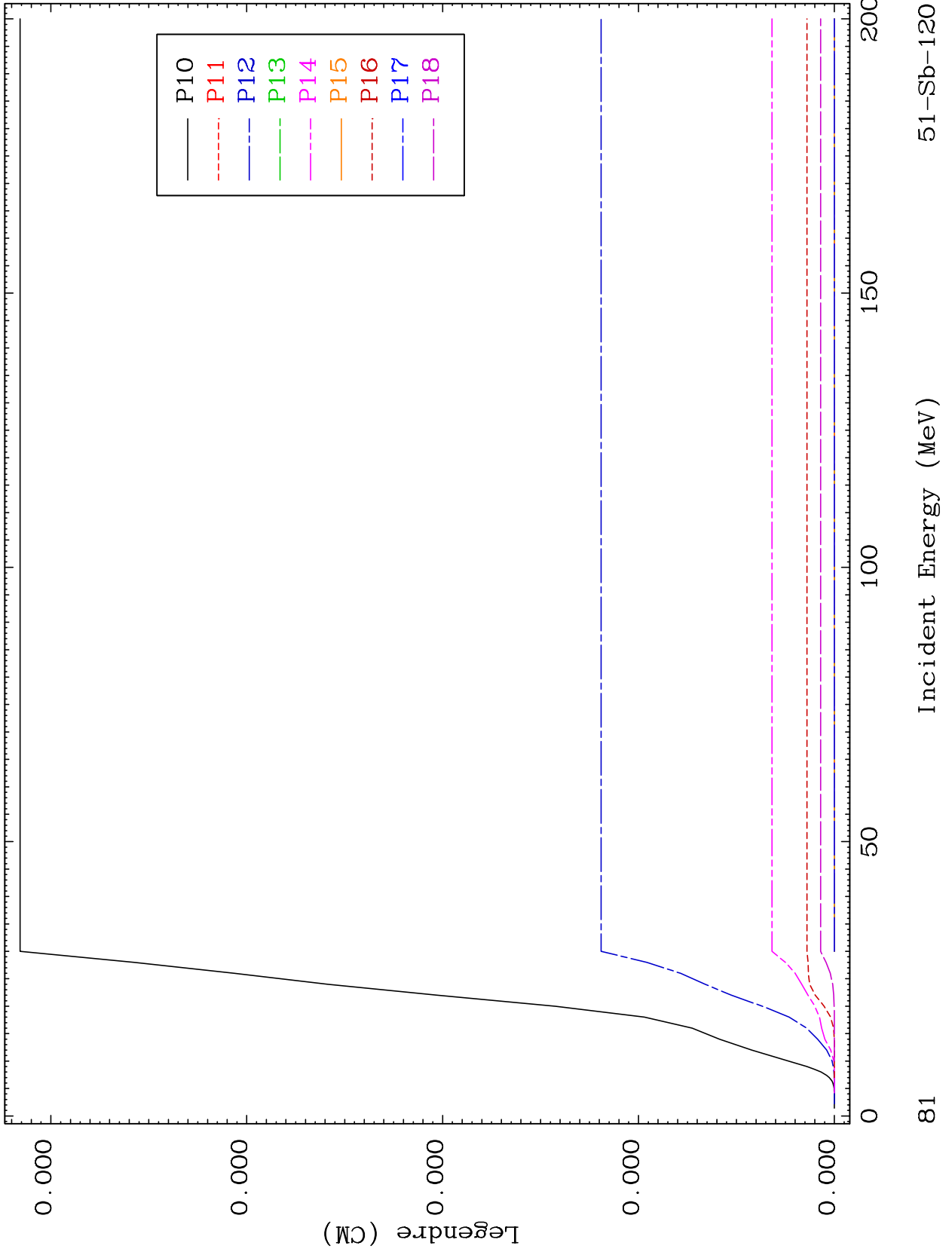




MAT 5122

MT= 68 (n,n') Level  
Legendre Coefficients

51-Sb-120

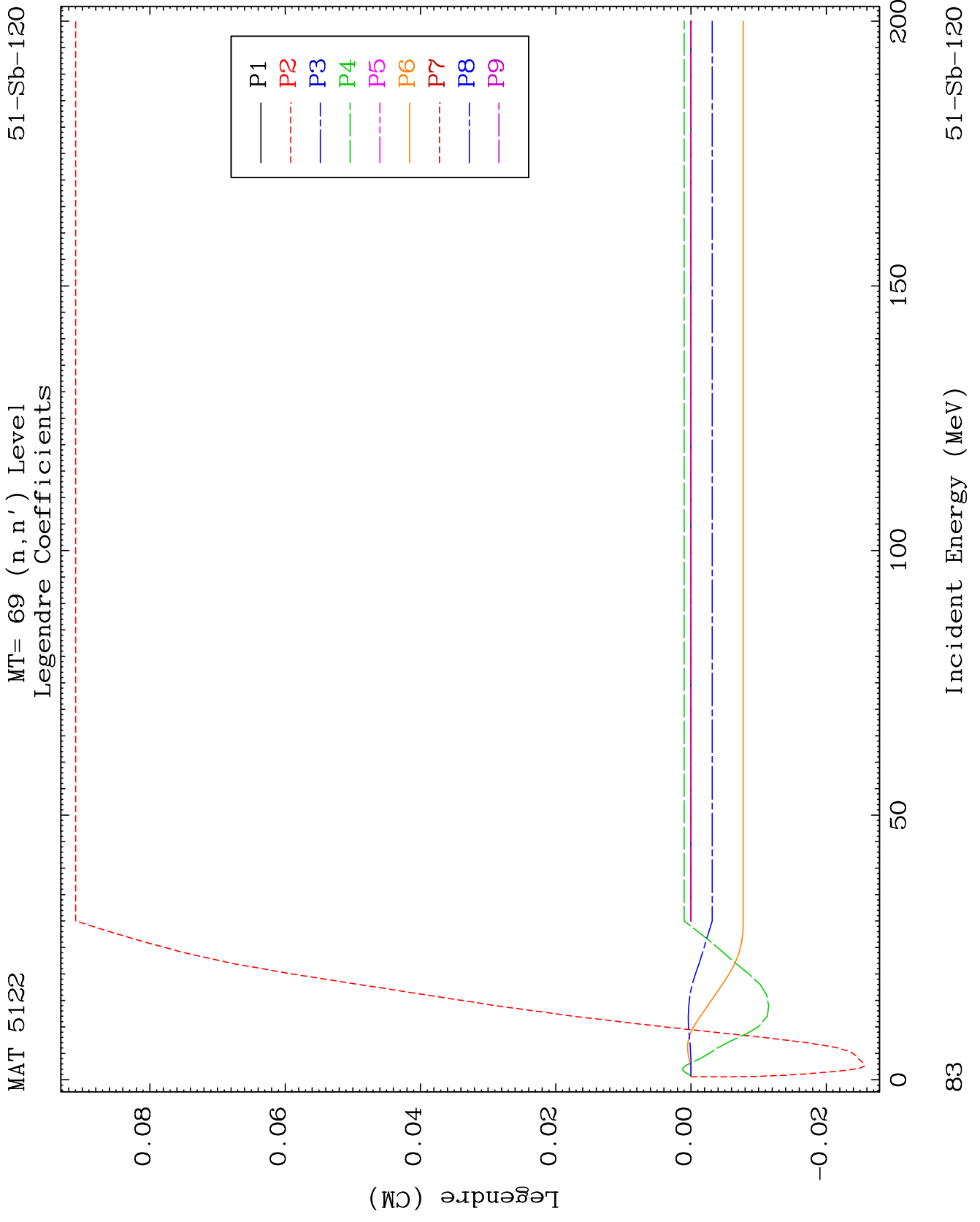


81

Incident Energy (MeV)

51-Sb-120

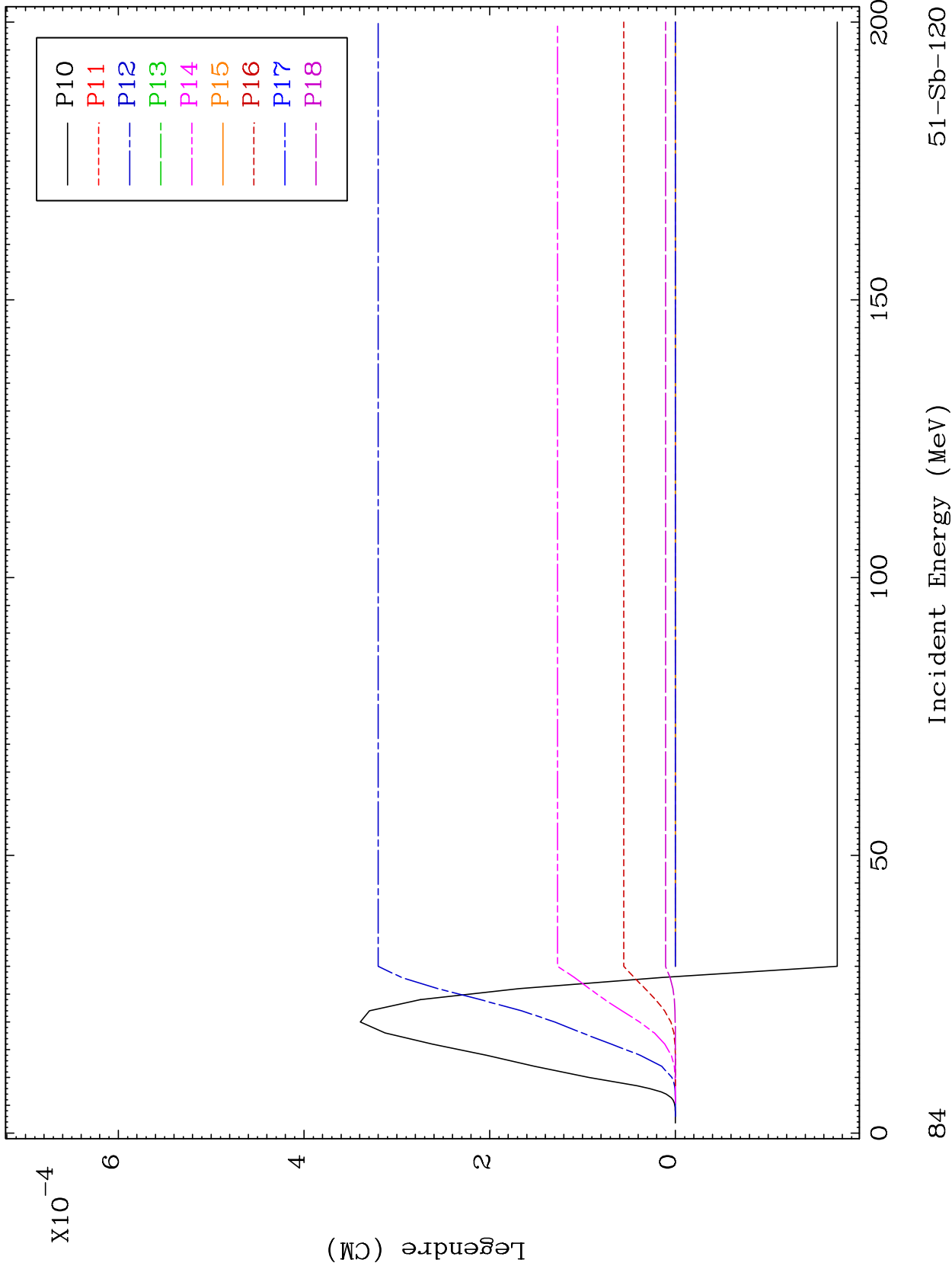




MAT 5122

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

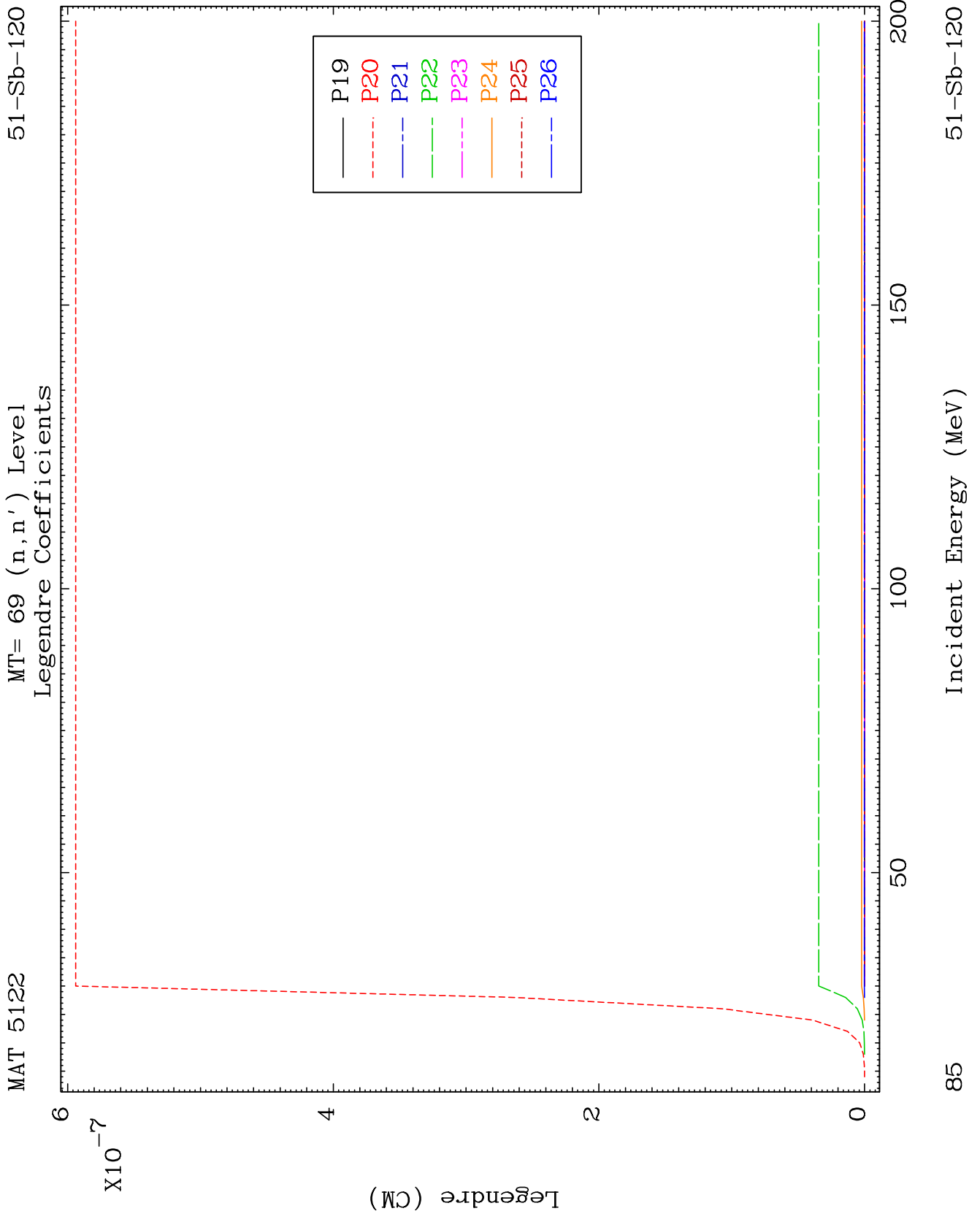
51-Sb-120

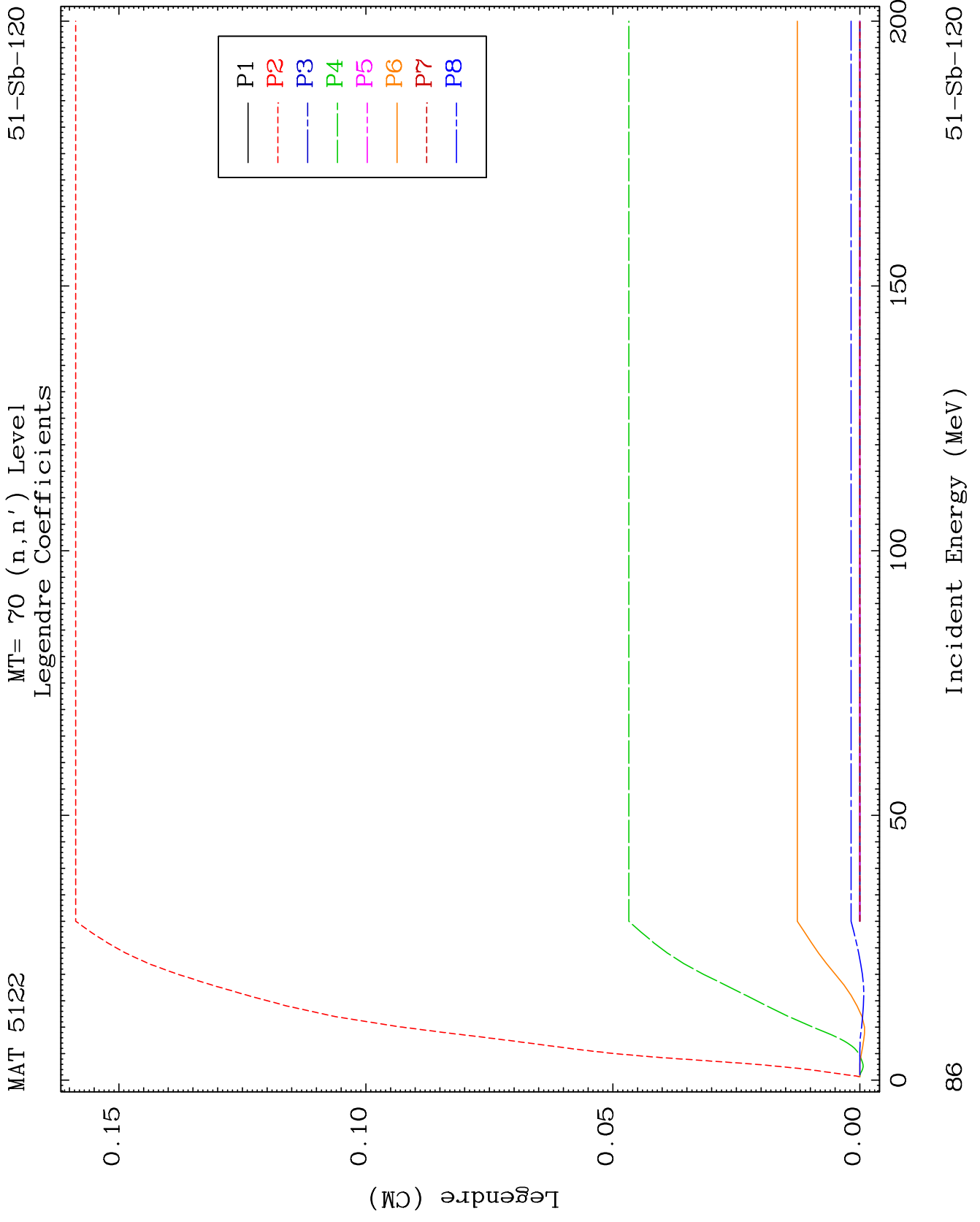


84

Incident Energy (MeV)

51-Sb-120

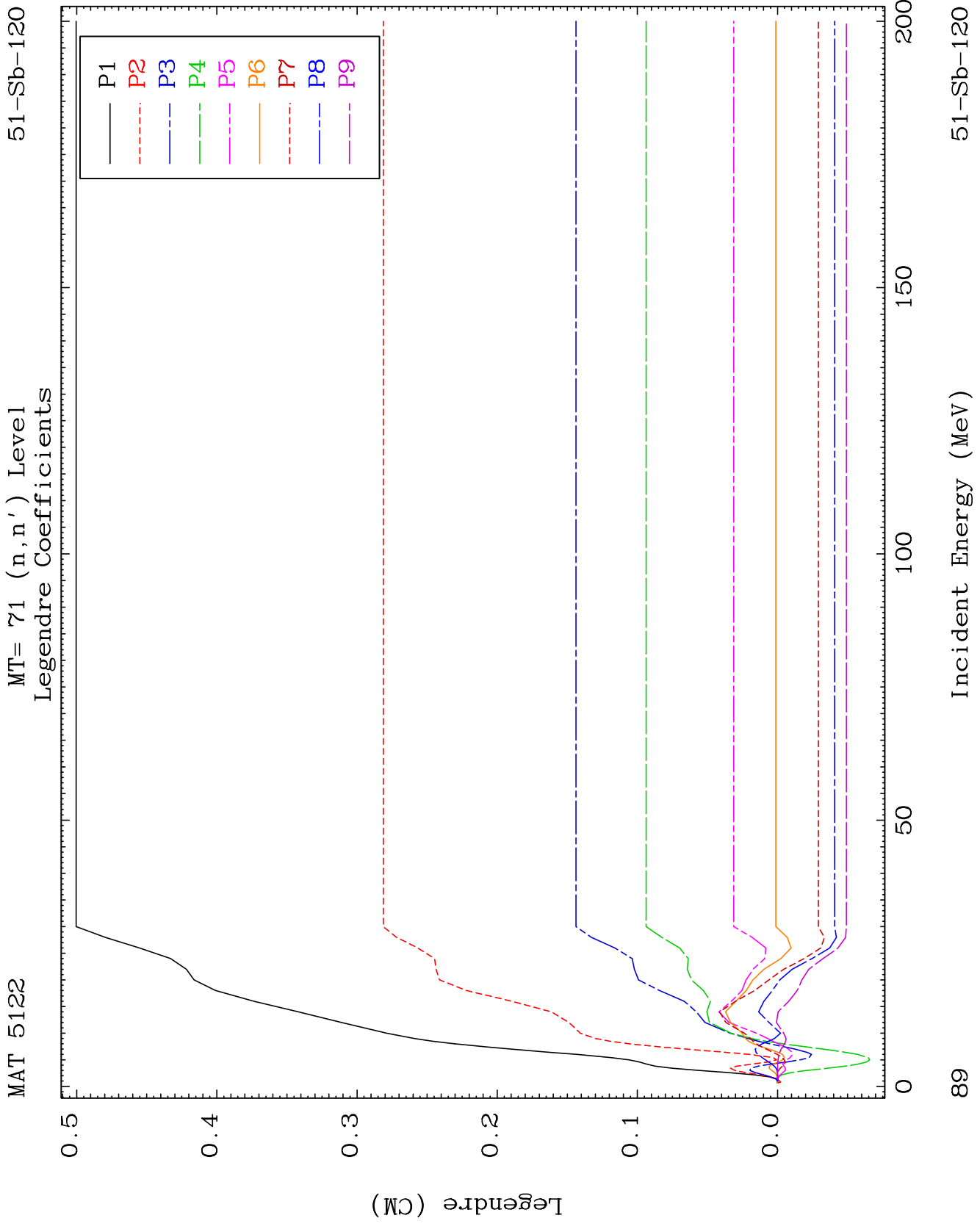


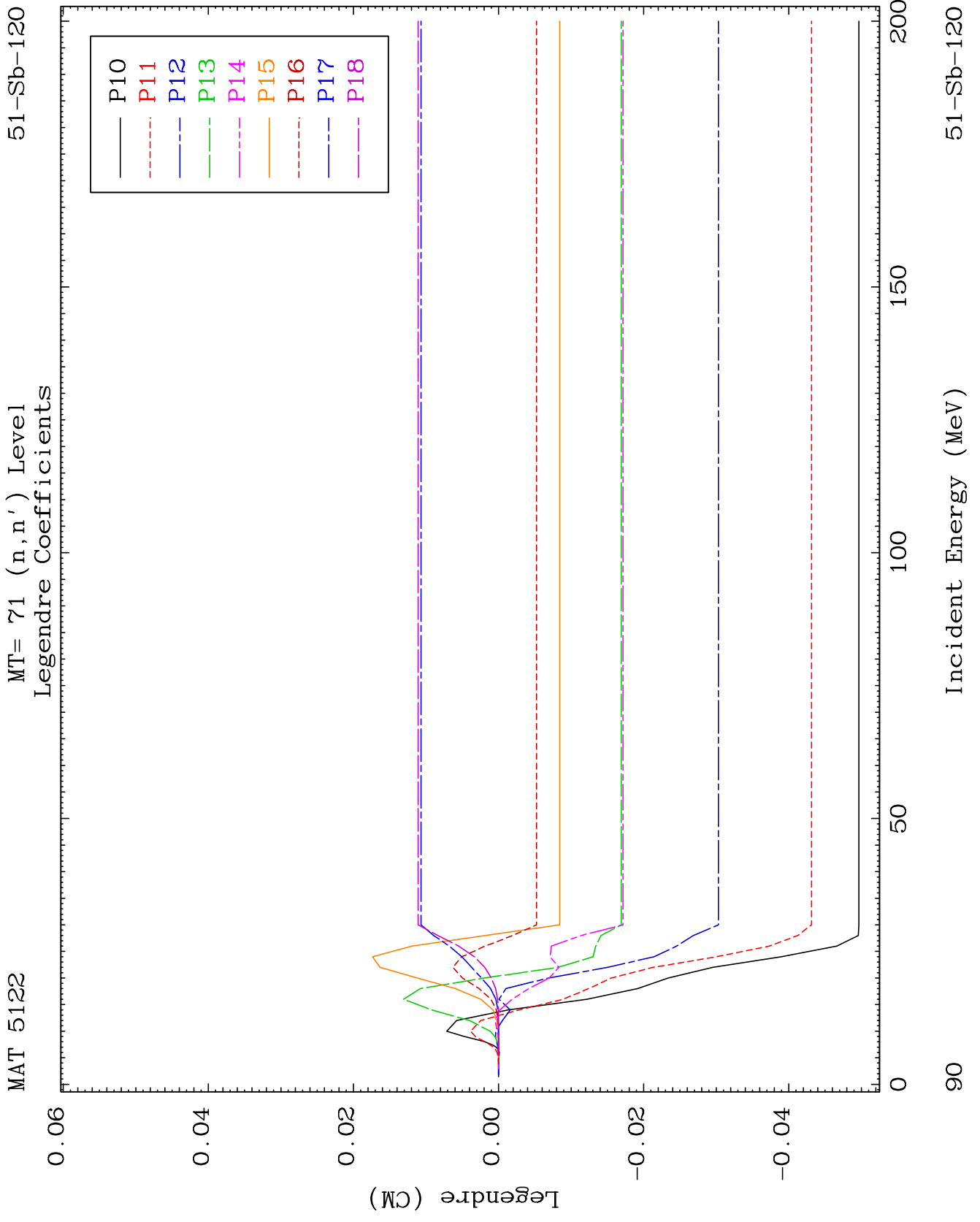








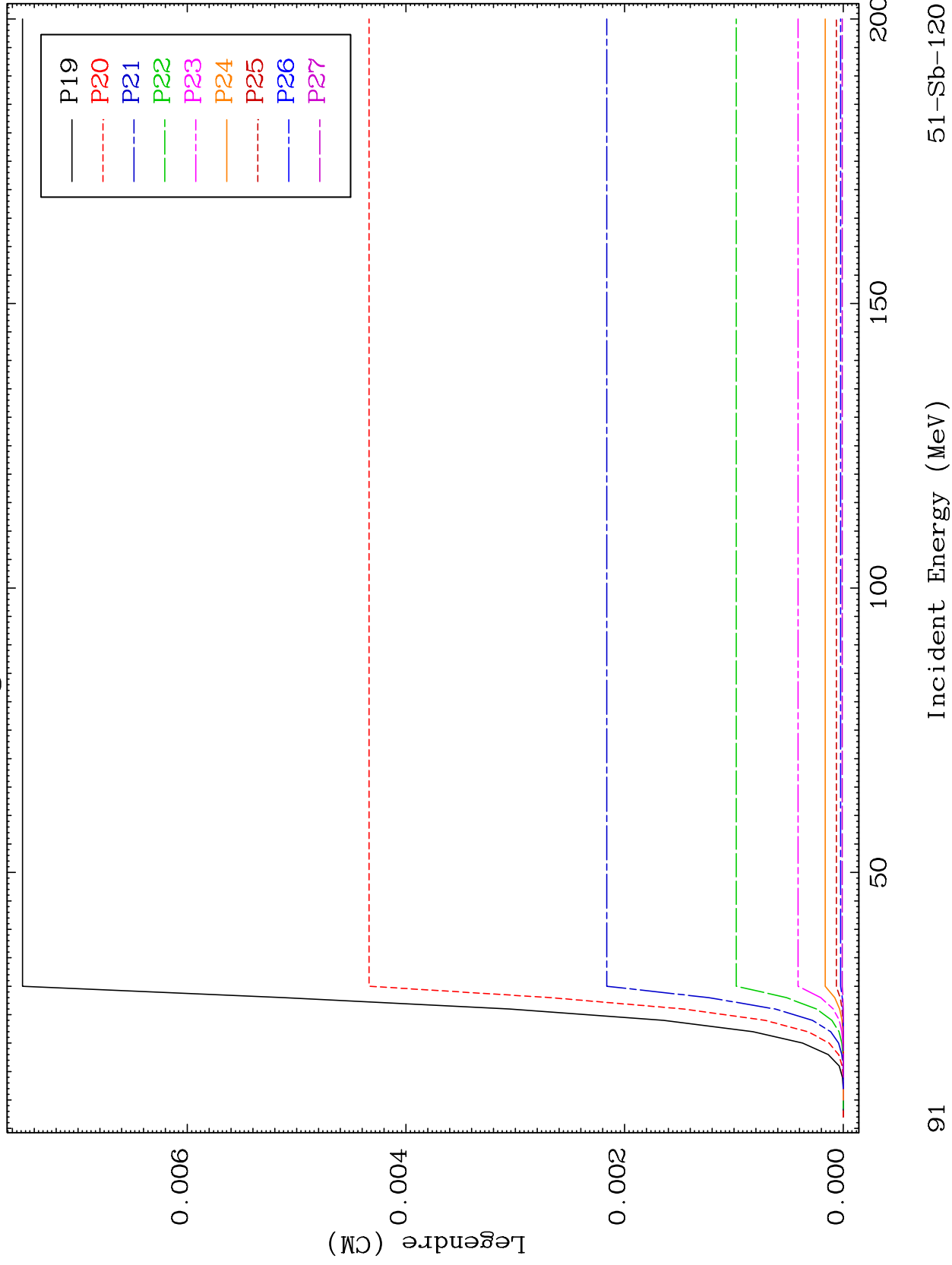




MAT 5122

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

51-Sb-120



91

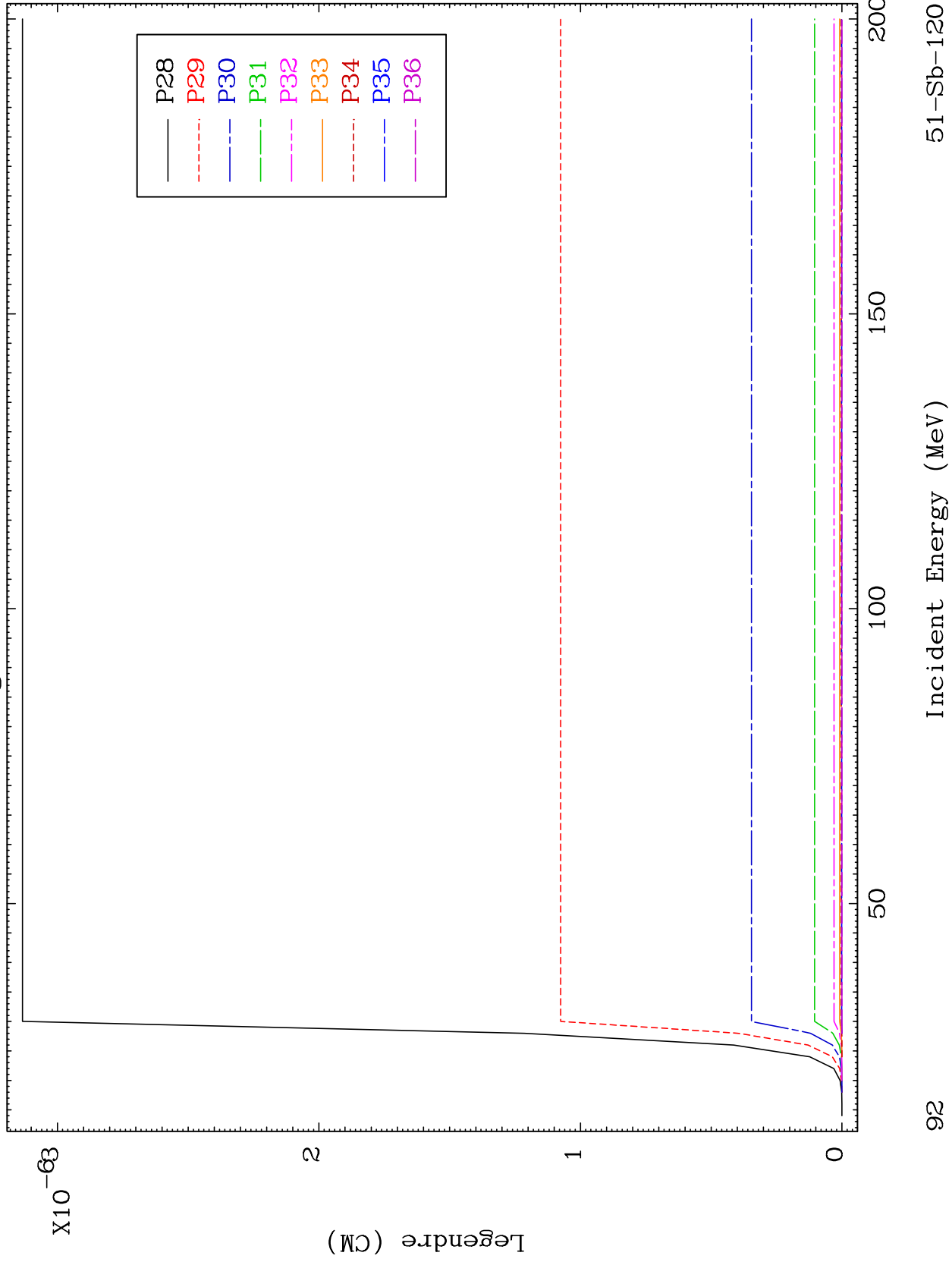
Incident Energy (MeV)

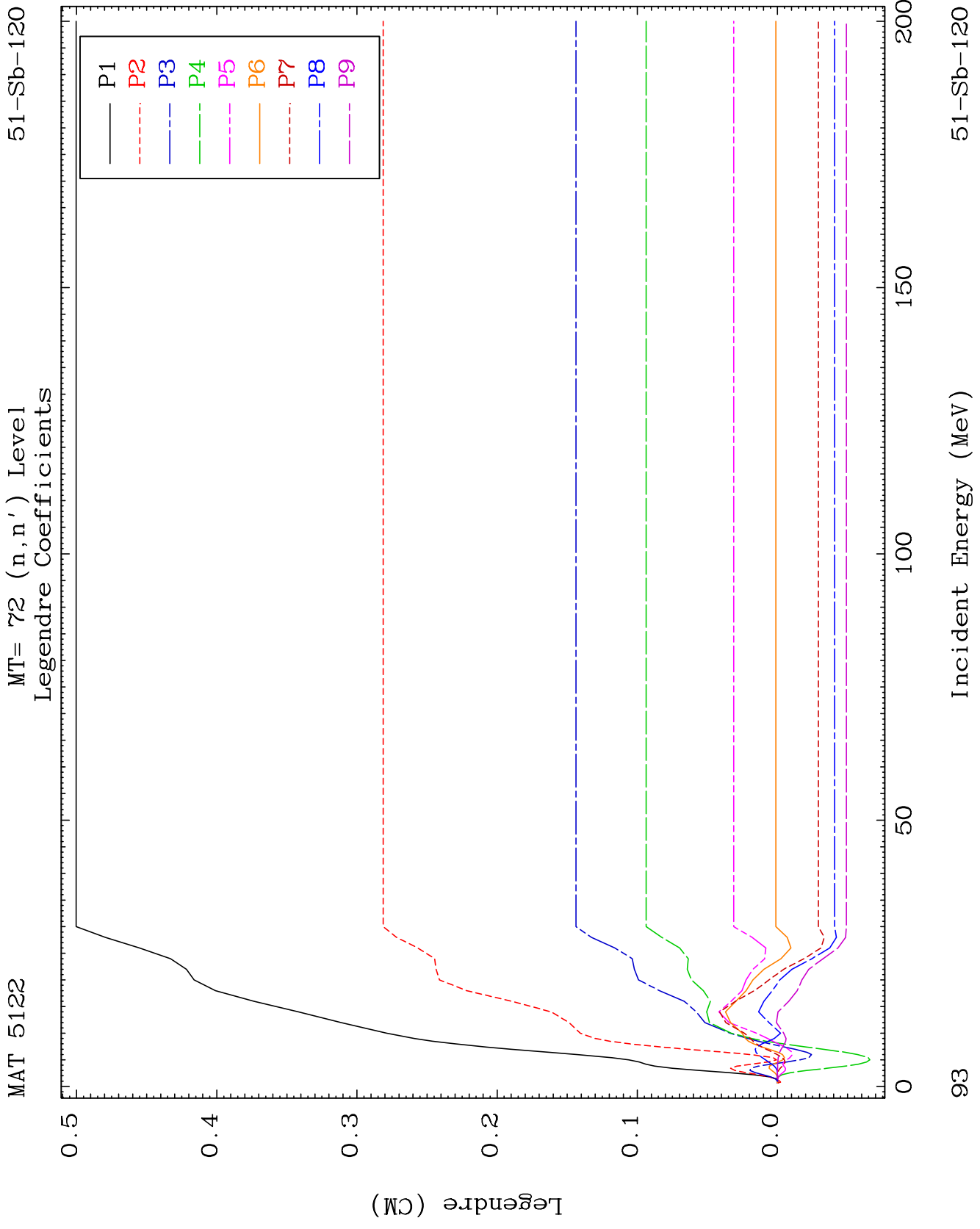
51-Sb-120

MAT 5122

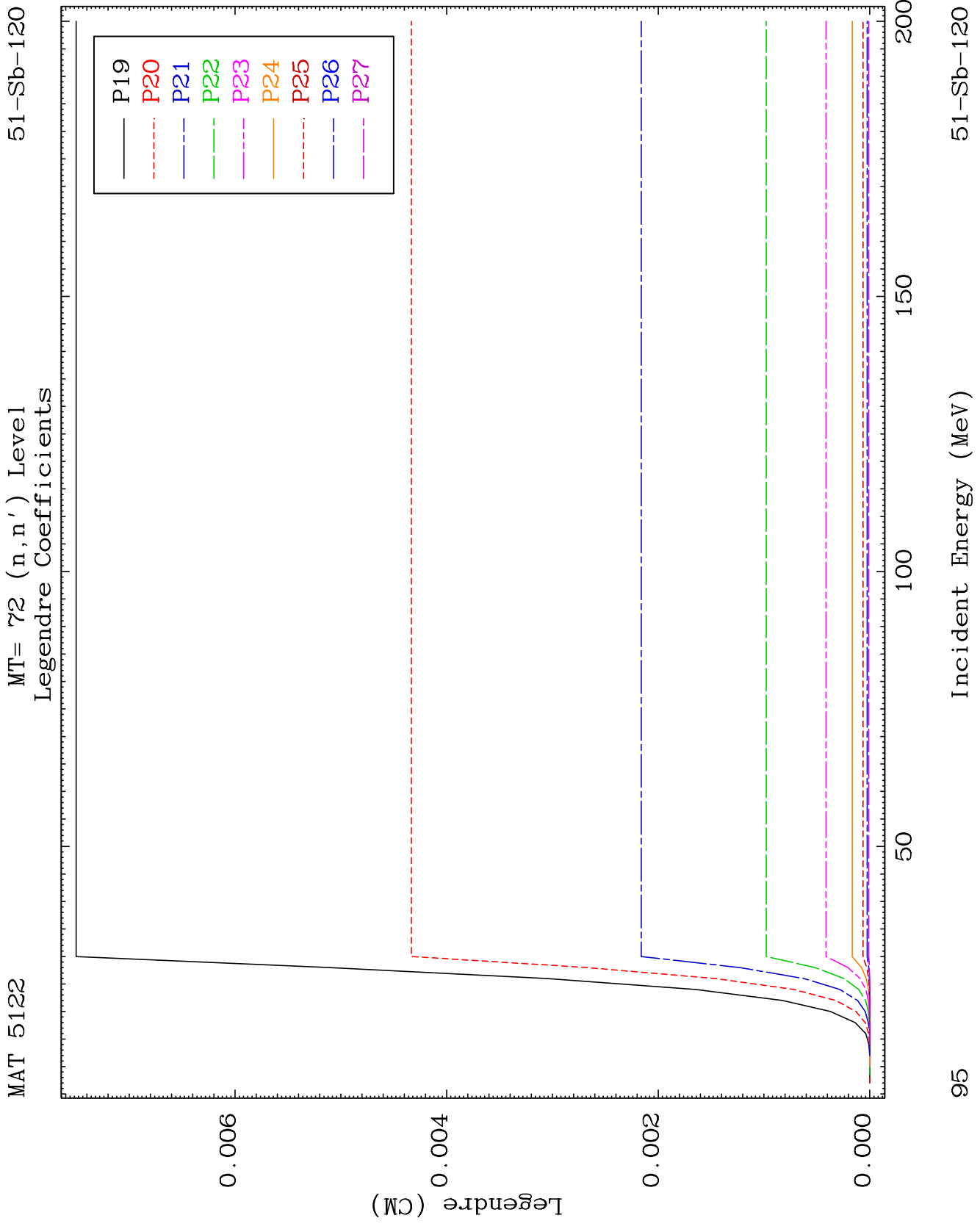
MT= 71 (n,n') Level  
Legendre Coefficients

51-Sb-120







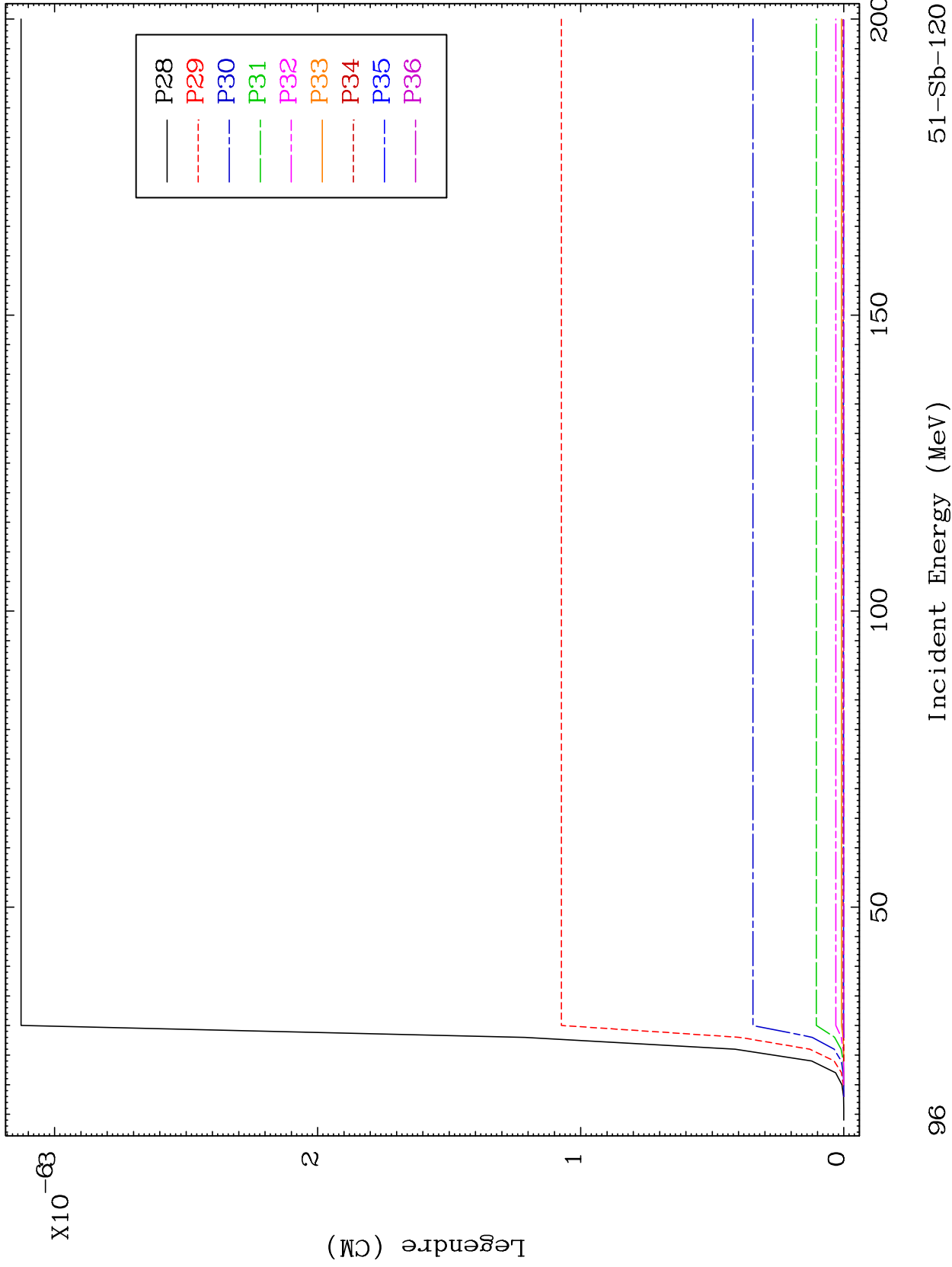


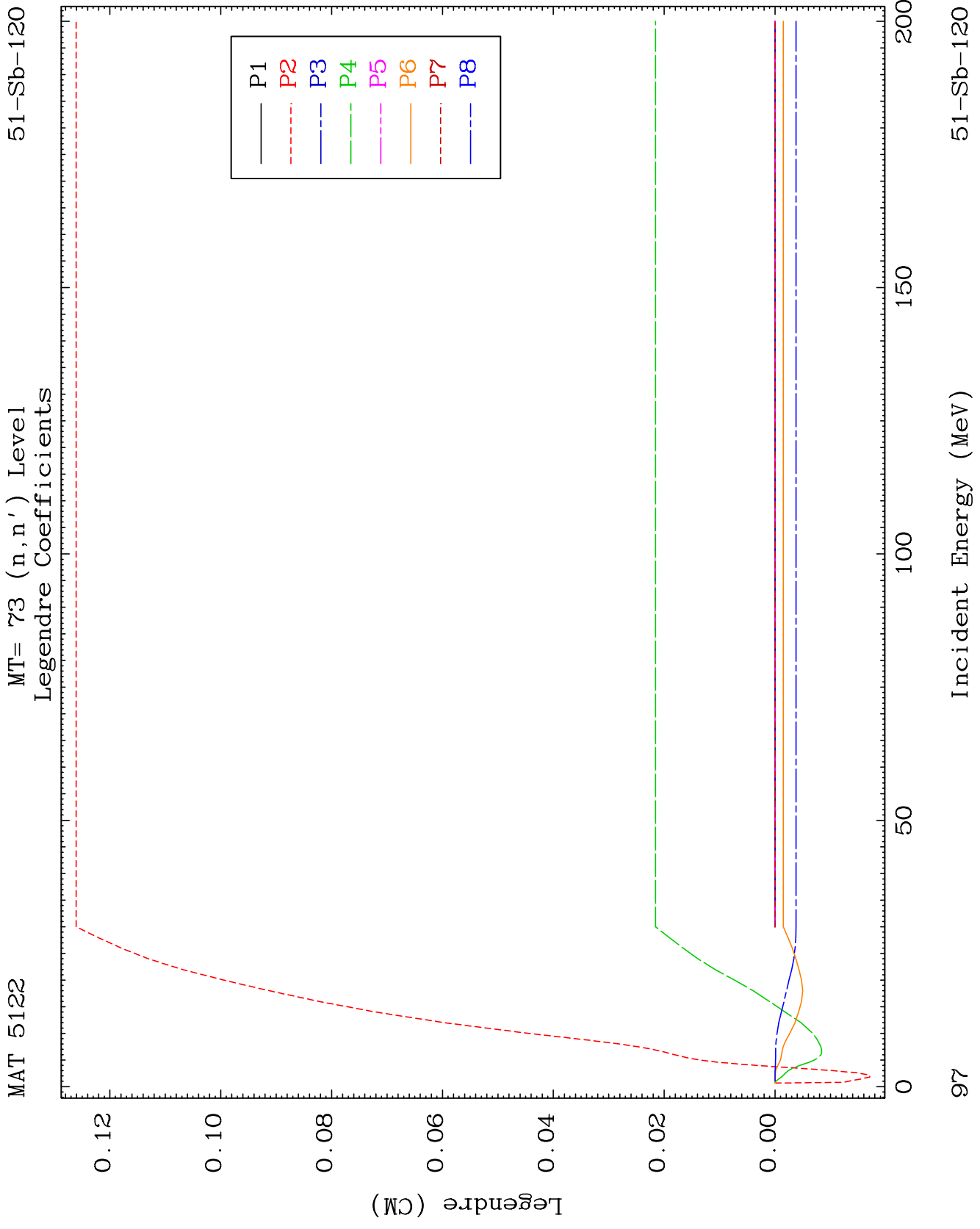


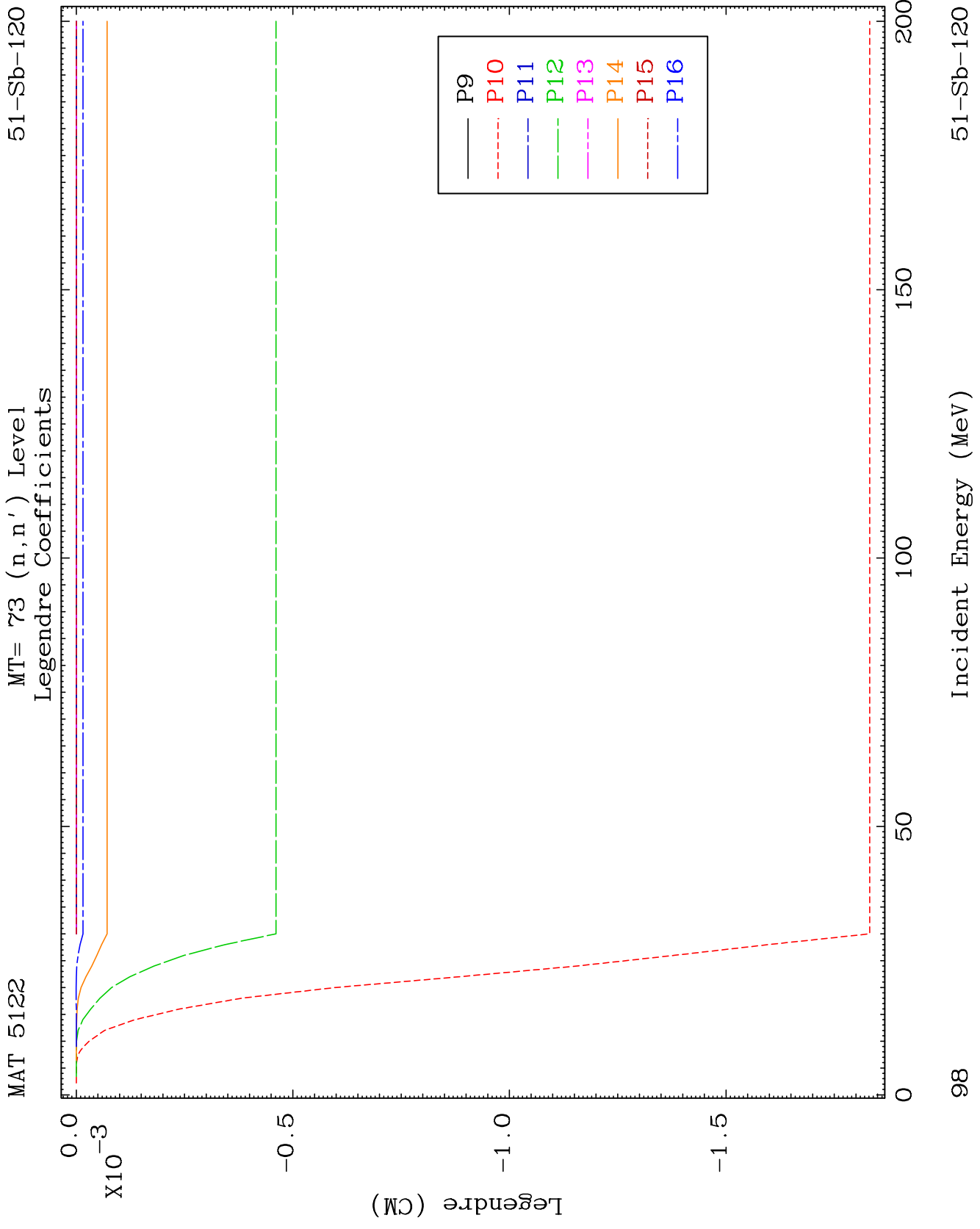
MAT 5122

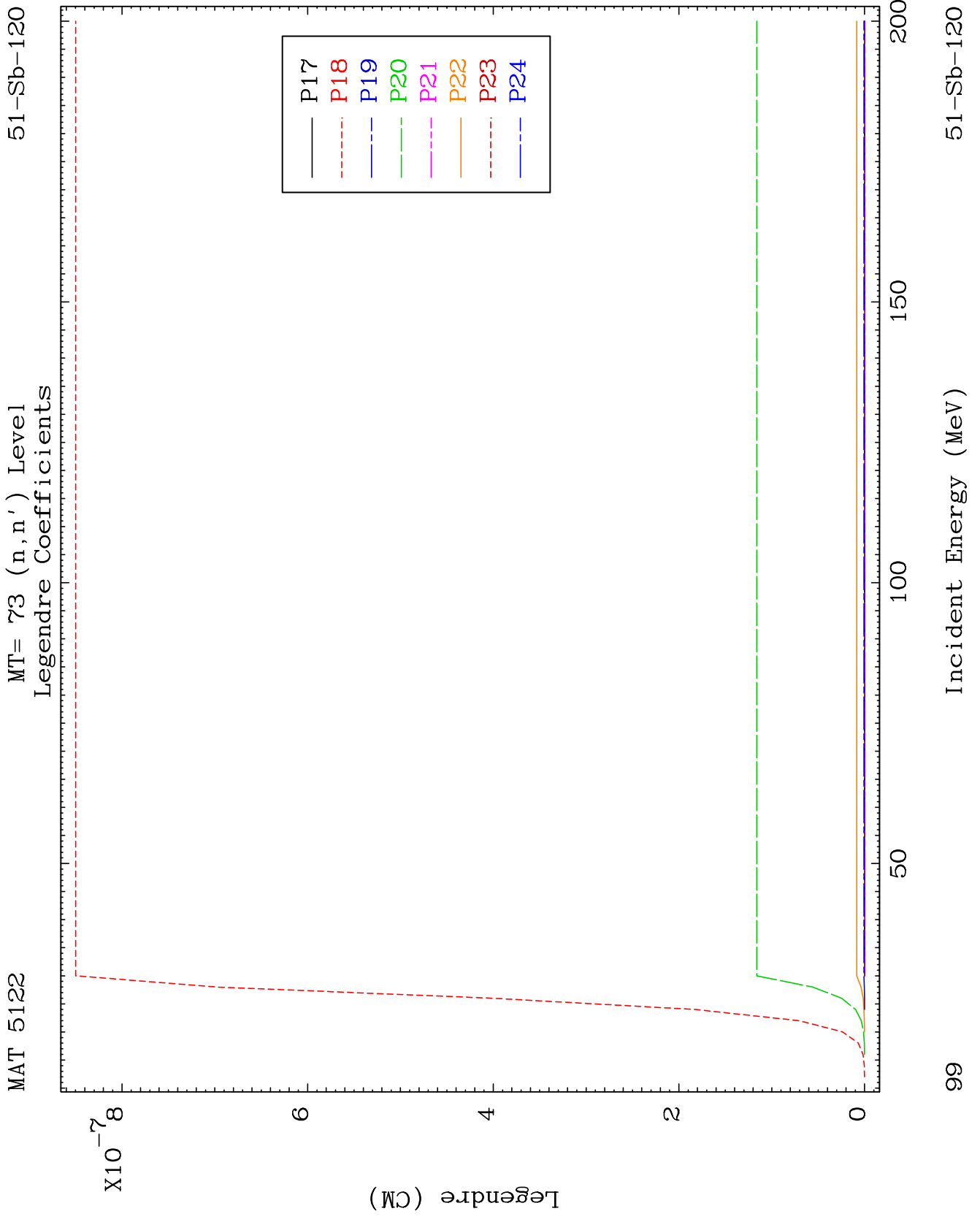
MT= 72 (n,n') Level  
Legendre Coefficients

51-Sb-120





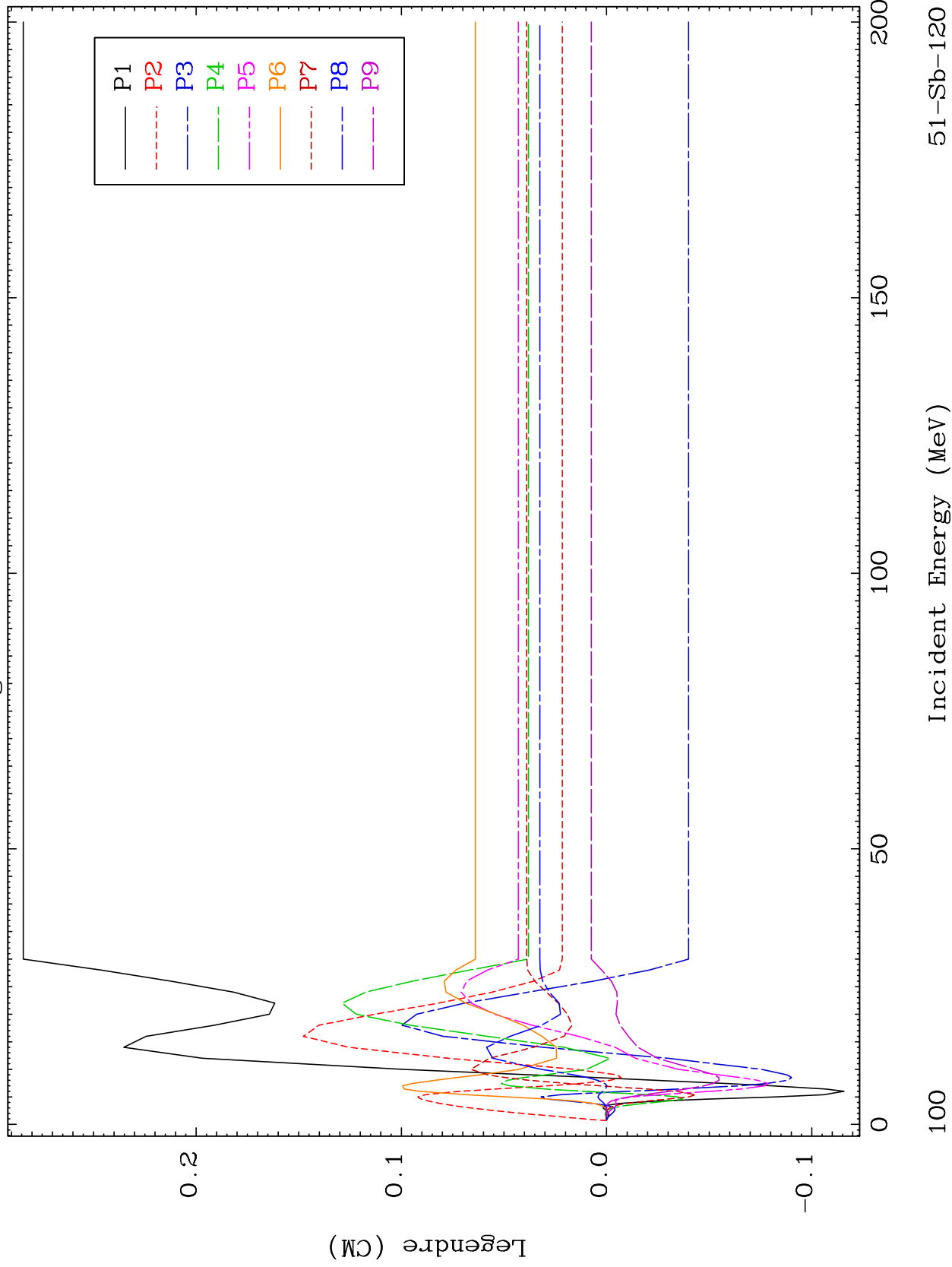




MAT 5122

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

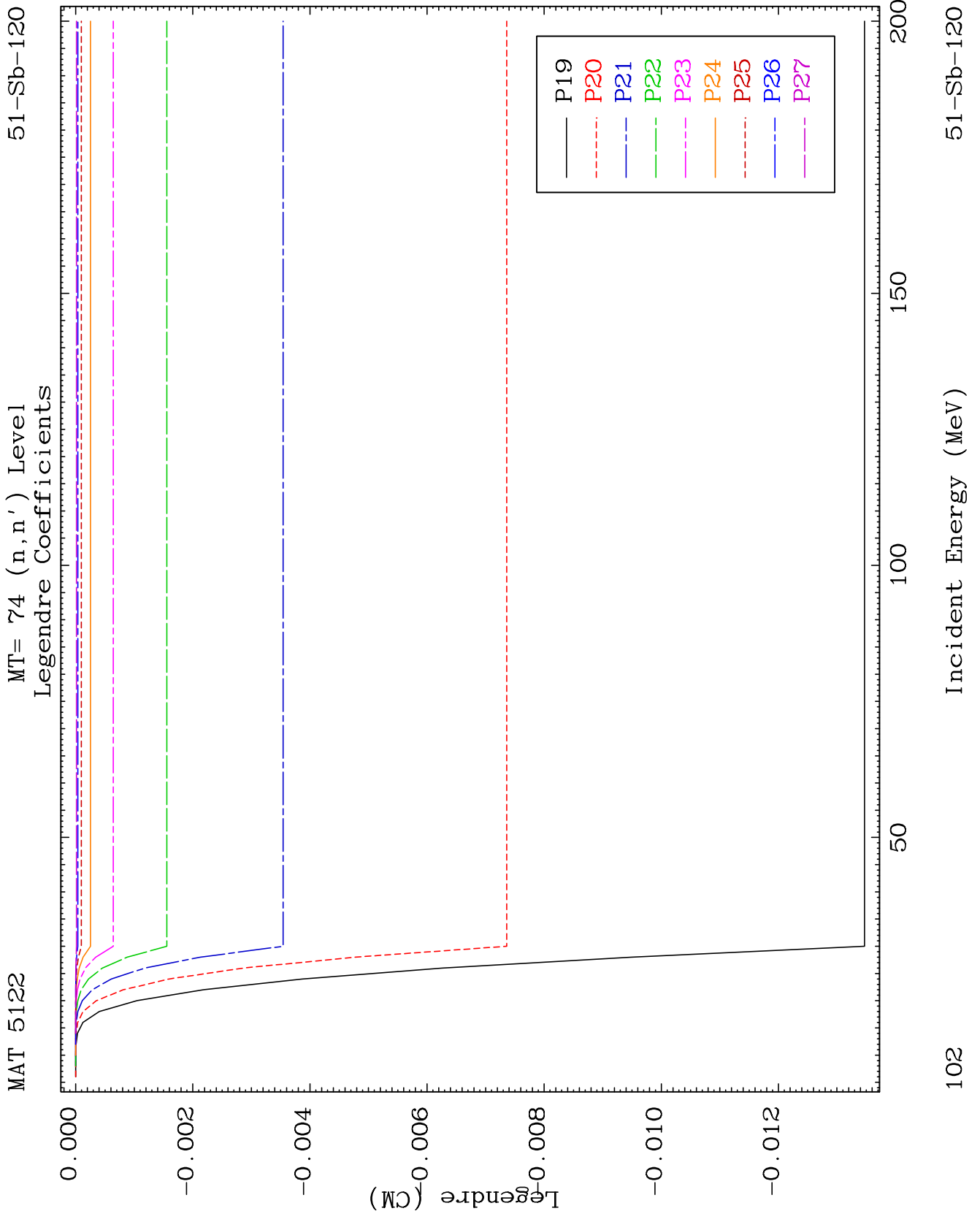
51-Sb-120

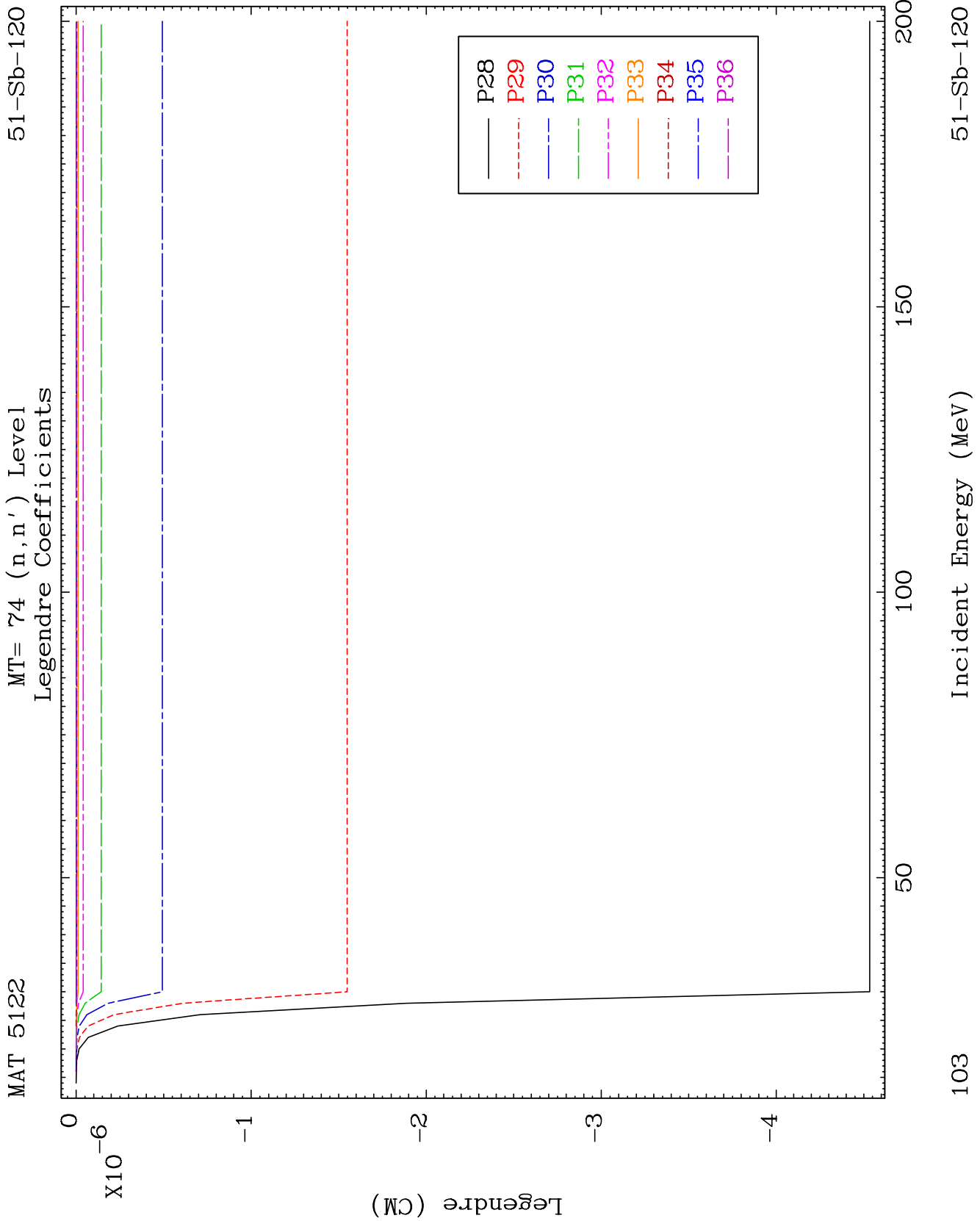


51-Sb-120

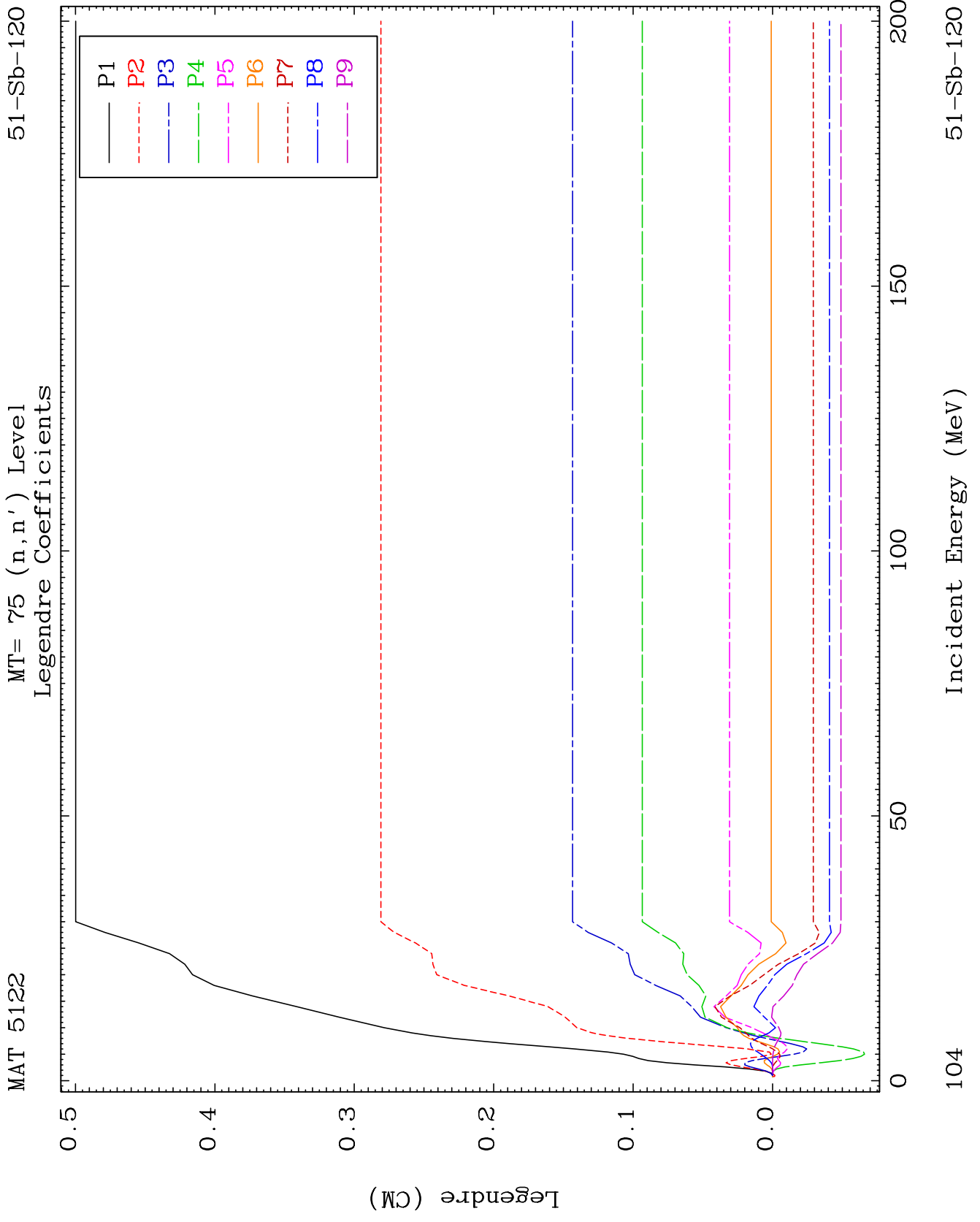
Incident Energy (MeV)

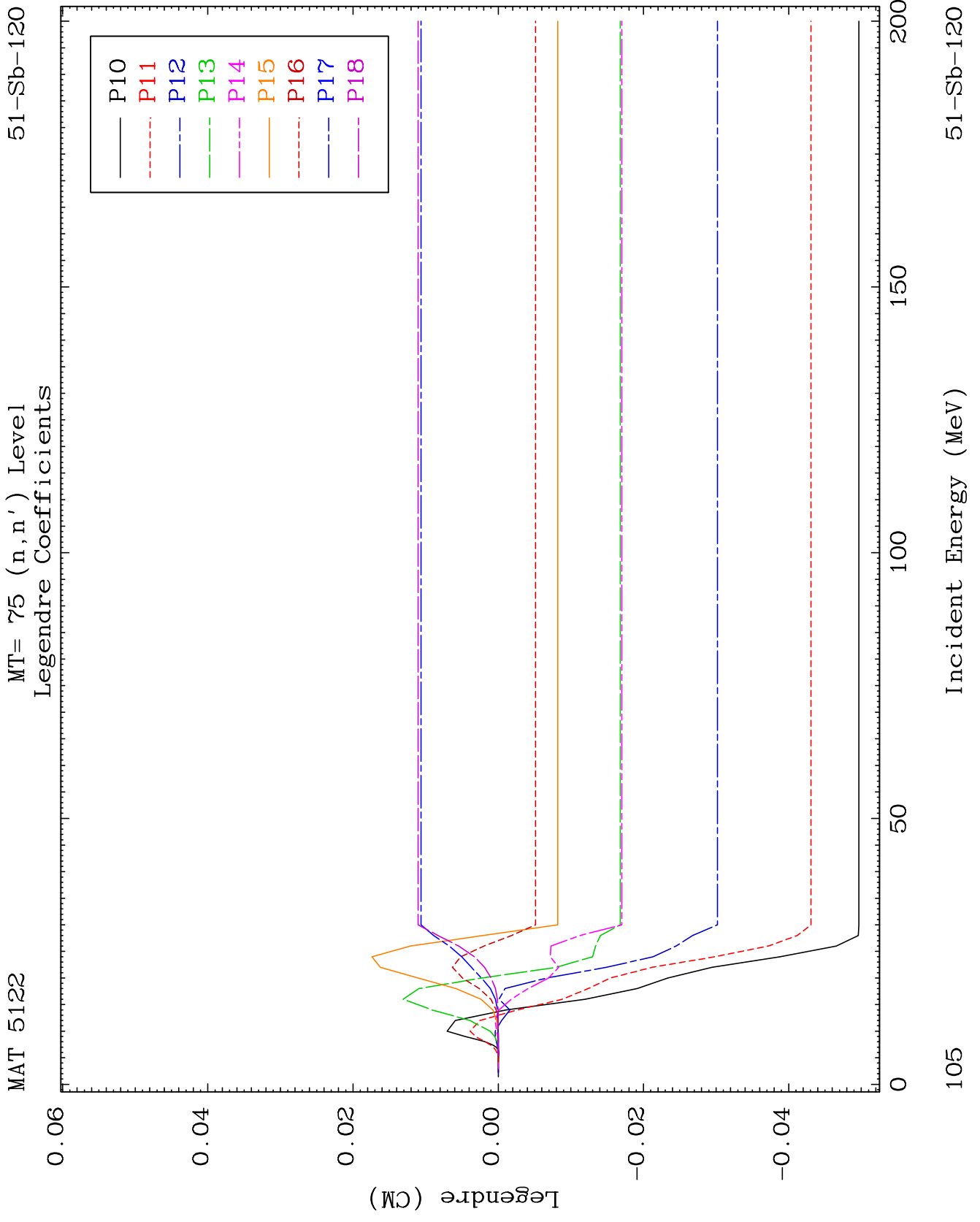








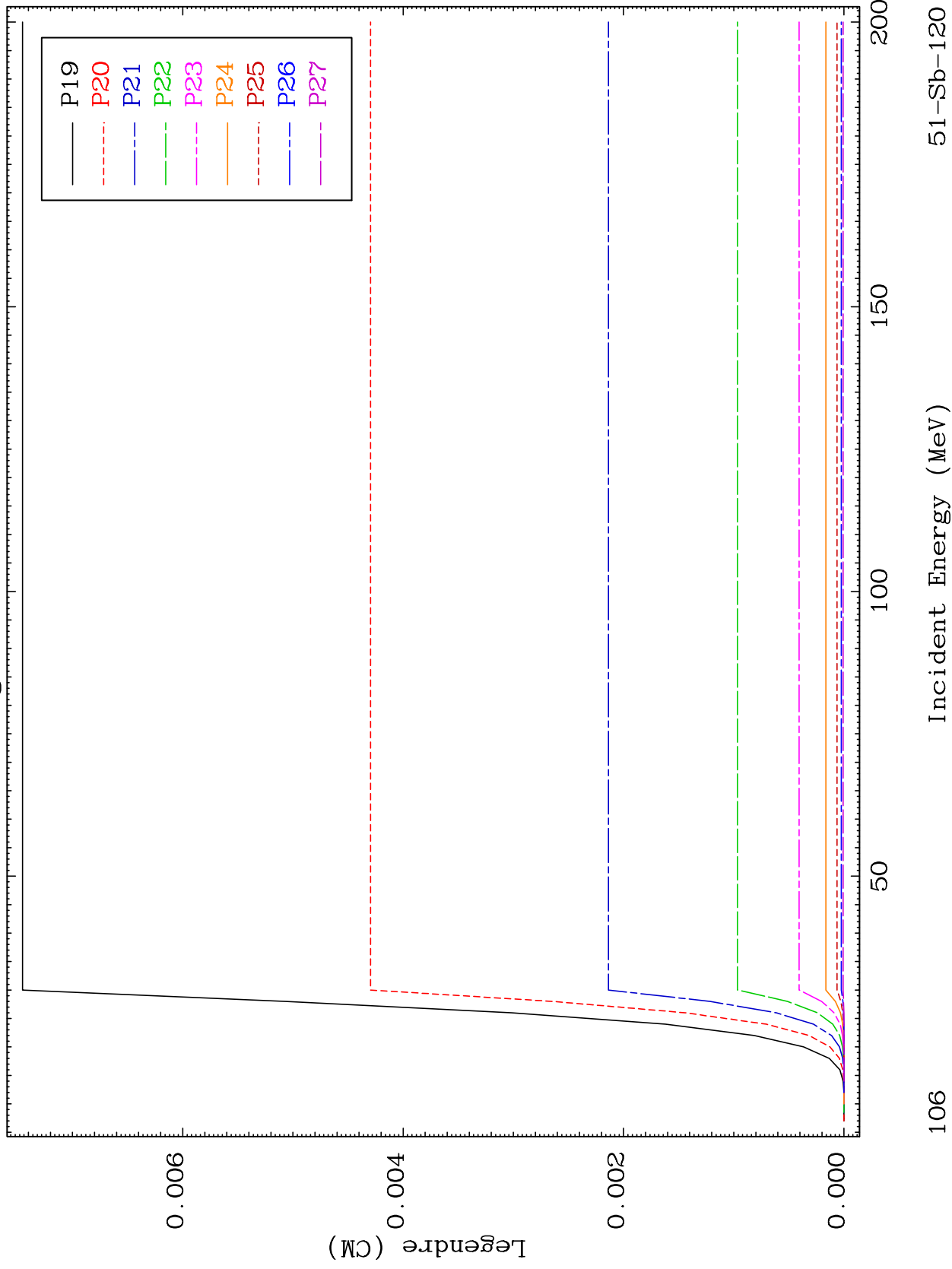




MAT 5122

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

51-Sb-120



106

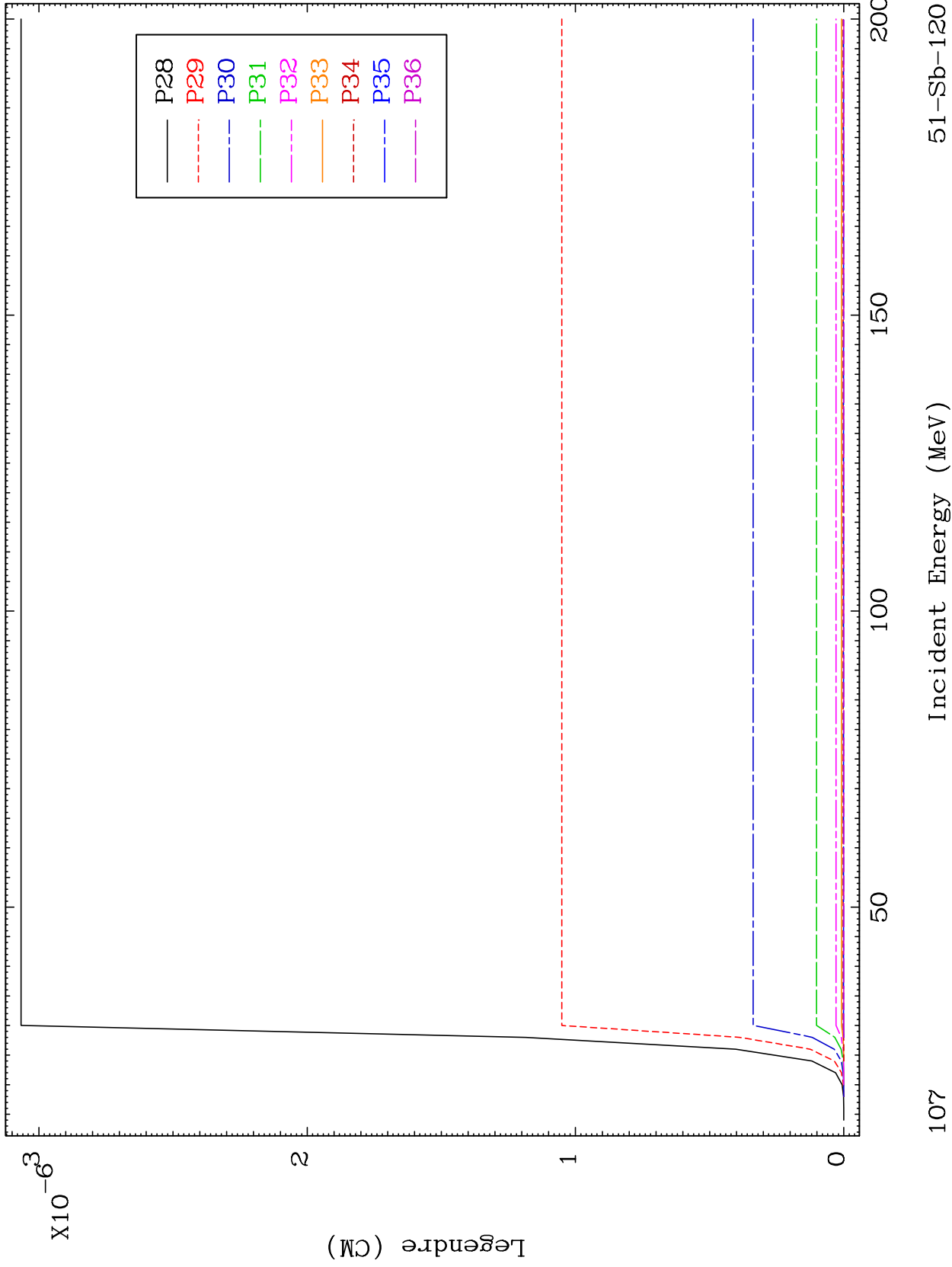
Incident Energy (MeV)

51-Sb-120

MAT 5122

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

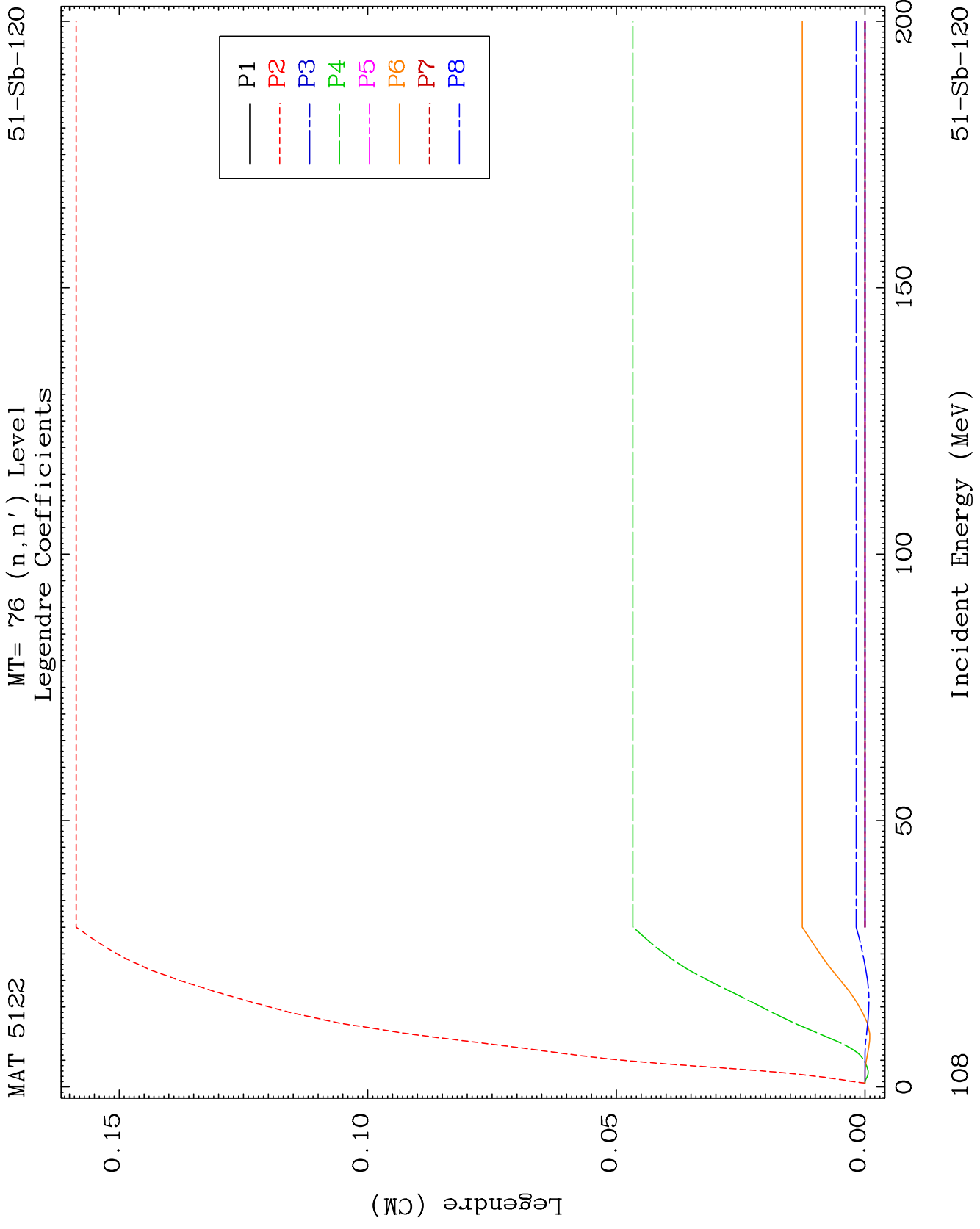
51-Sb-120

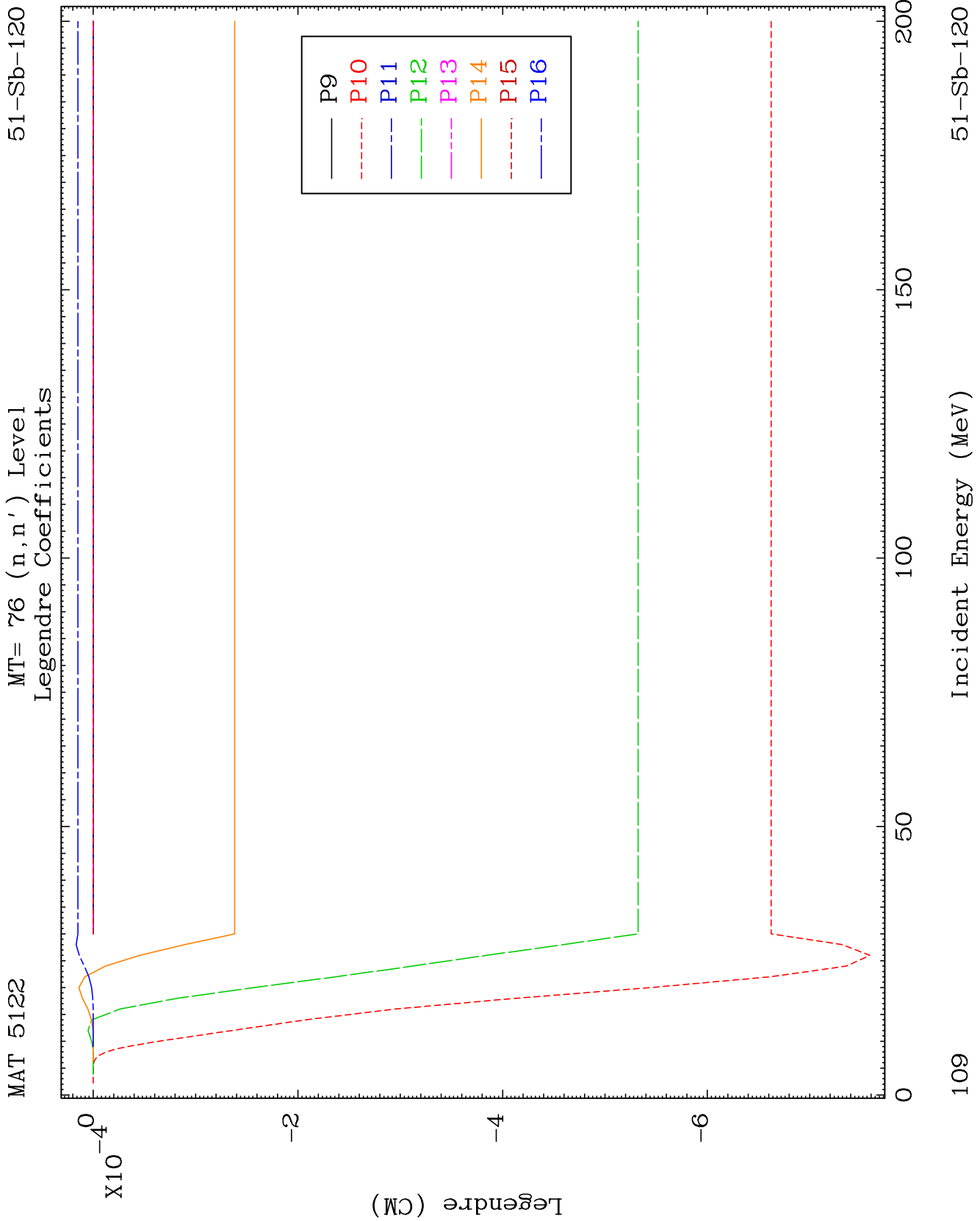


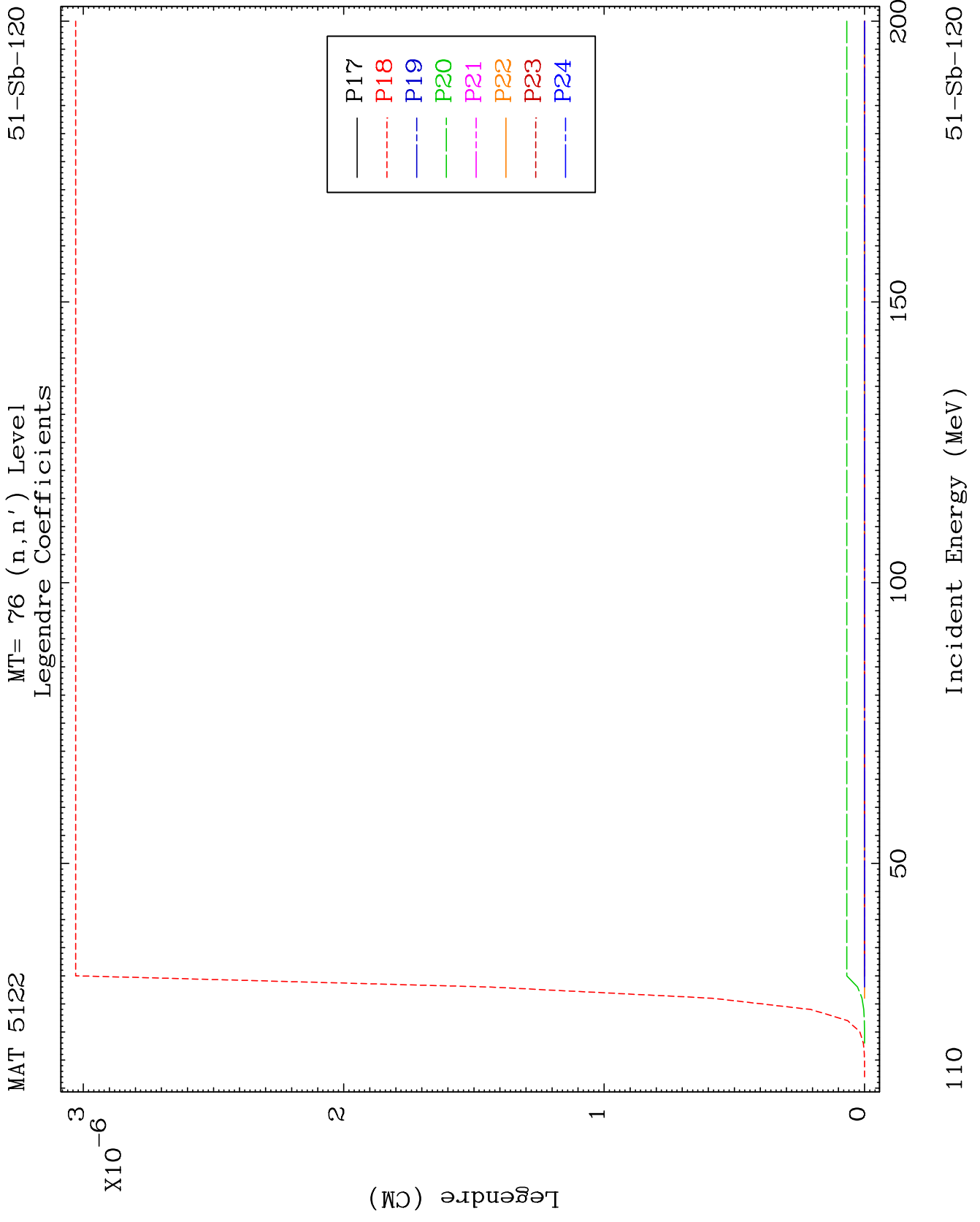
107

Incident Energy (MeV)

51-Sb-120







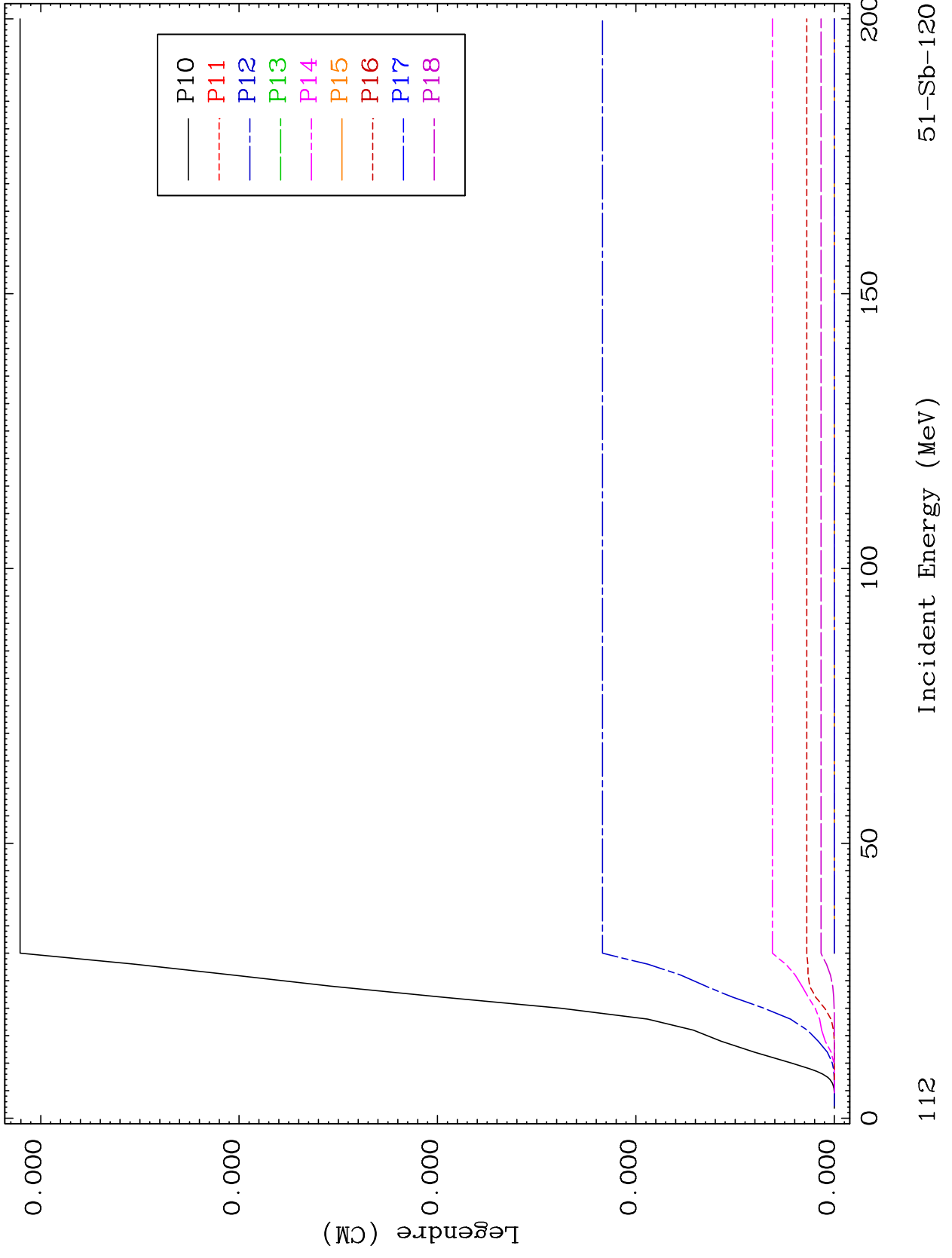




MAT 5122

MT= 77 (n,n') Level  
Legendre Coefficients

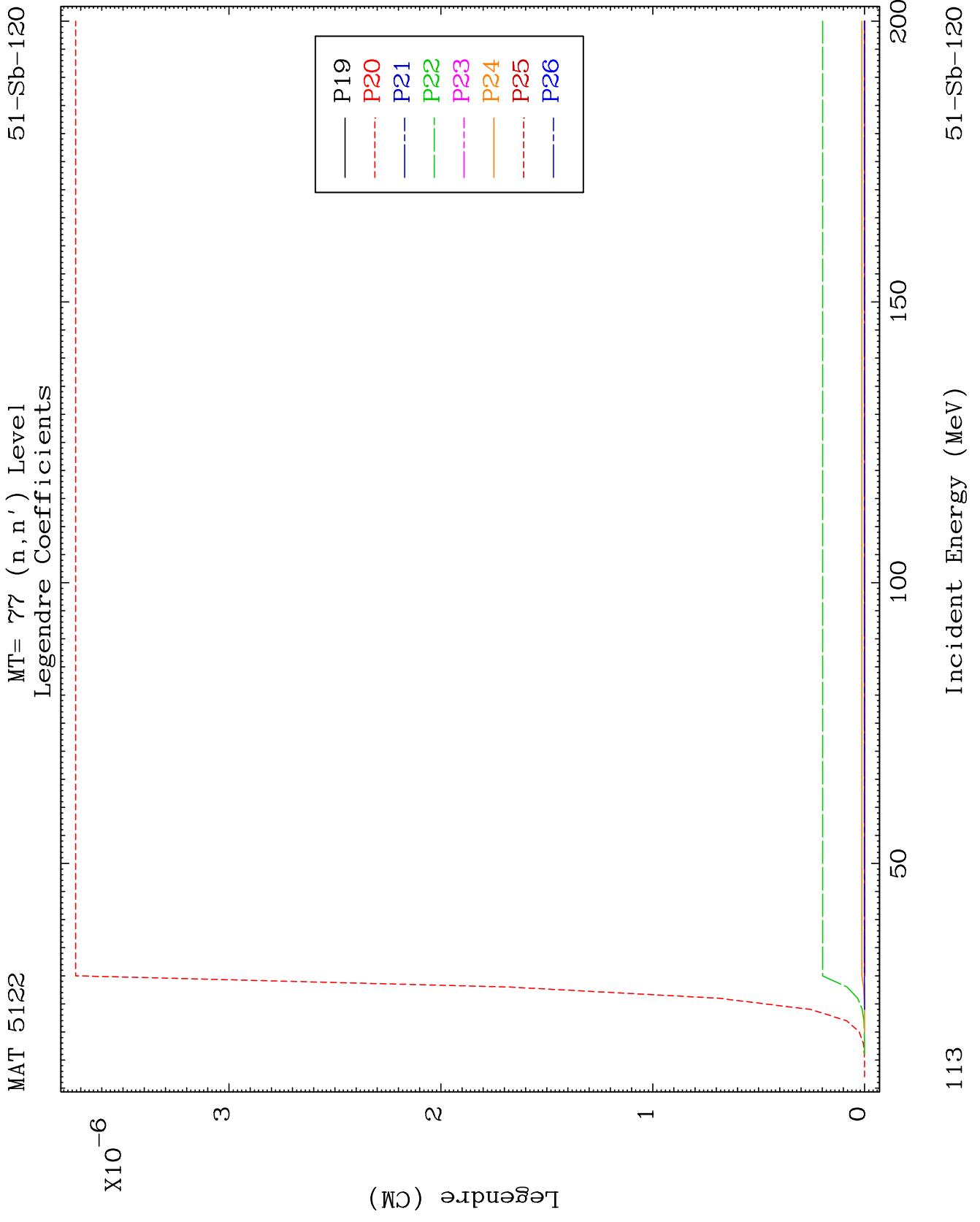
51-Sb-120



112

Incident Energy (MeV)

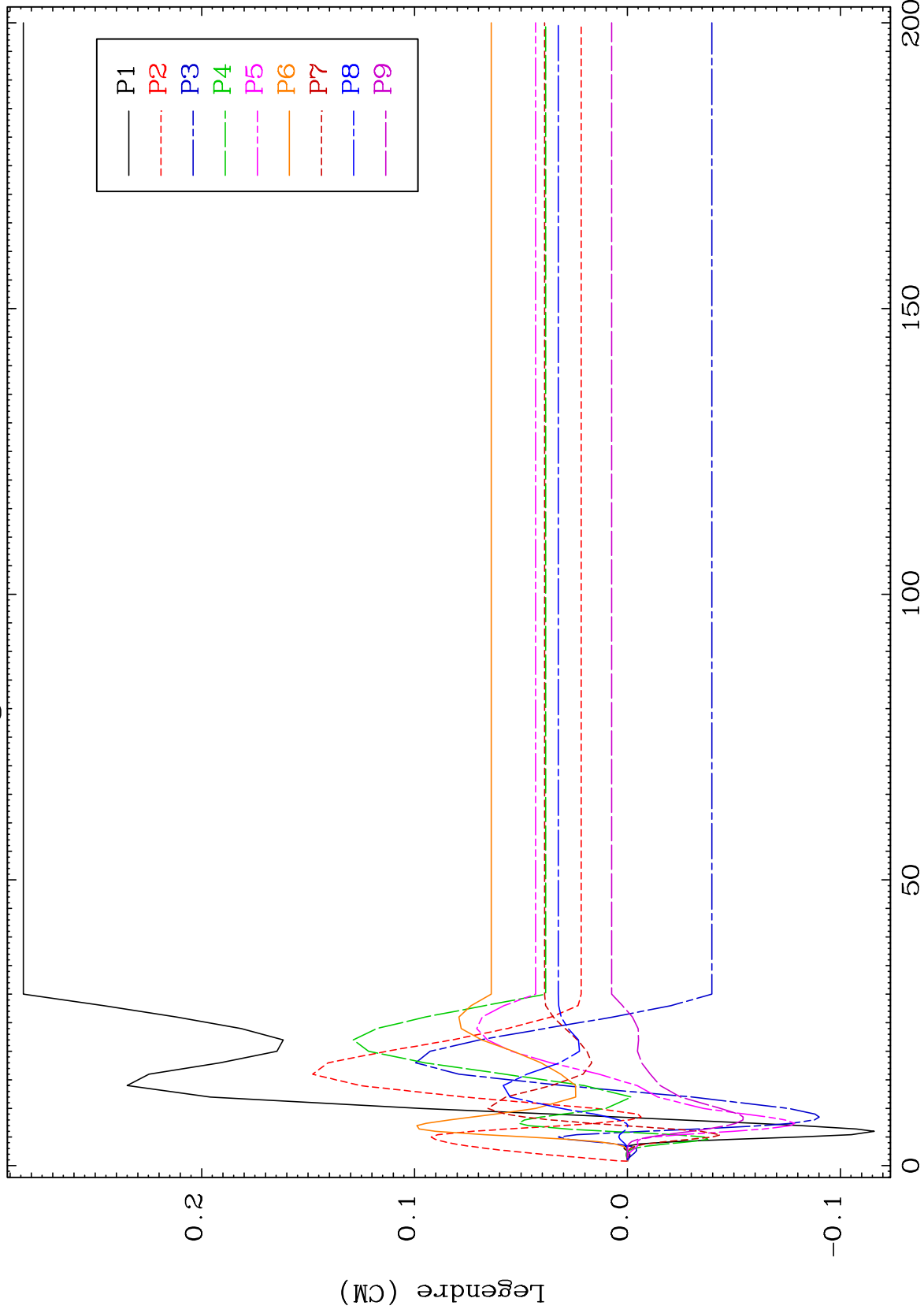
51-Sb-120



MAT 5122

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

51-Sb-120



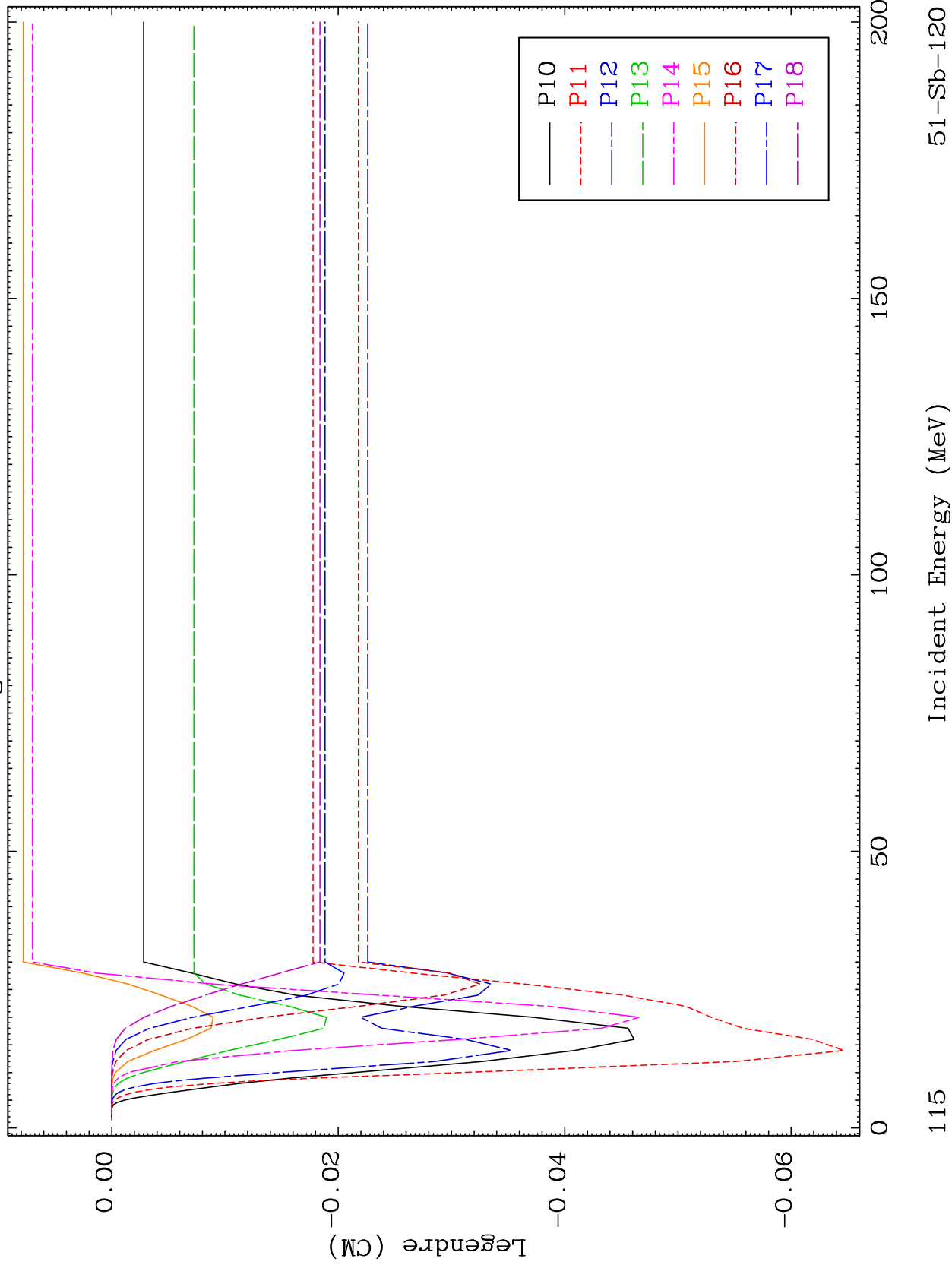
114

51-Sb-120

MAT 5122

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

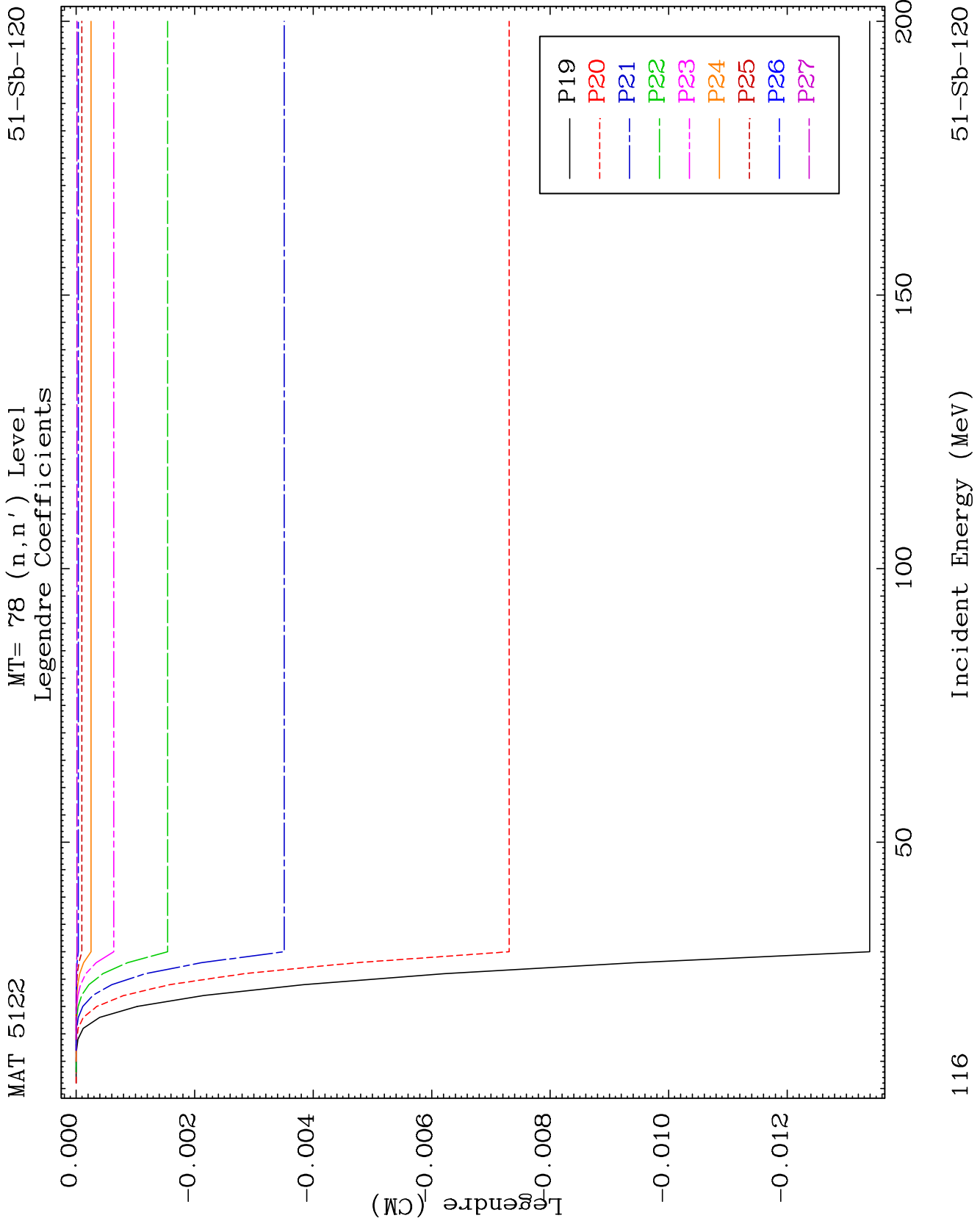
51-Sb-120

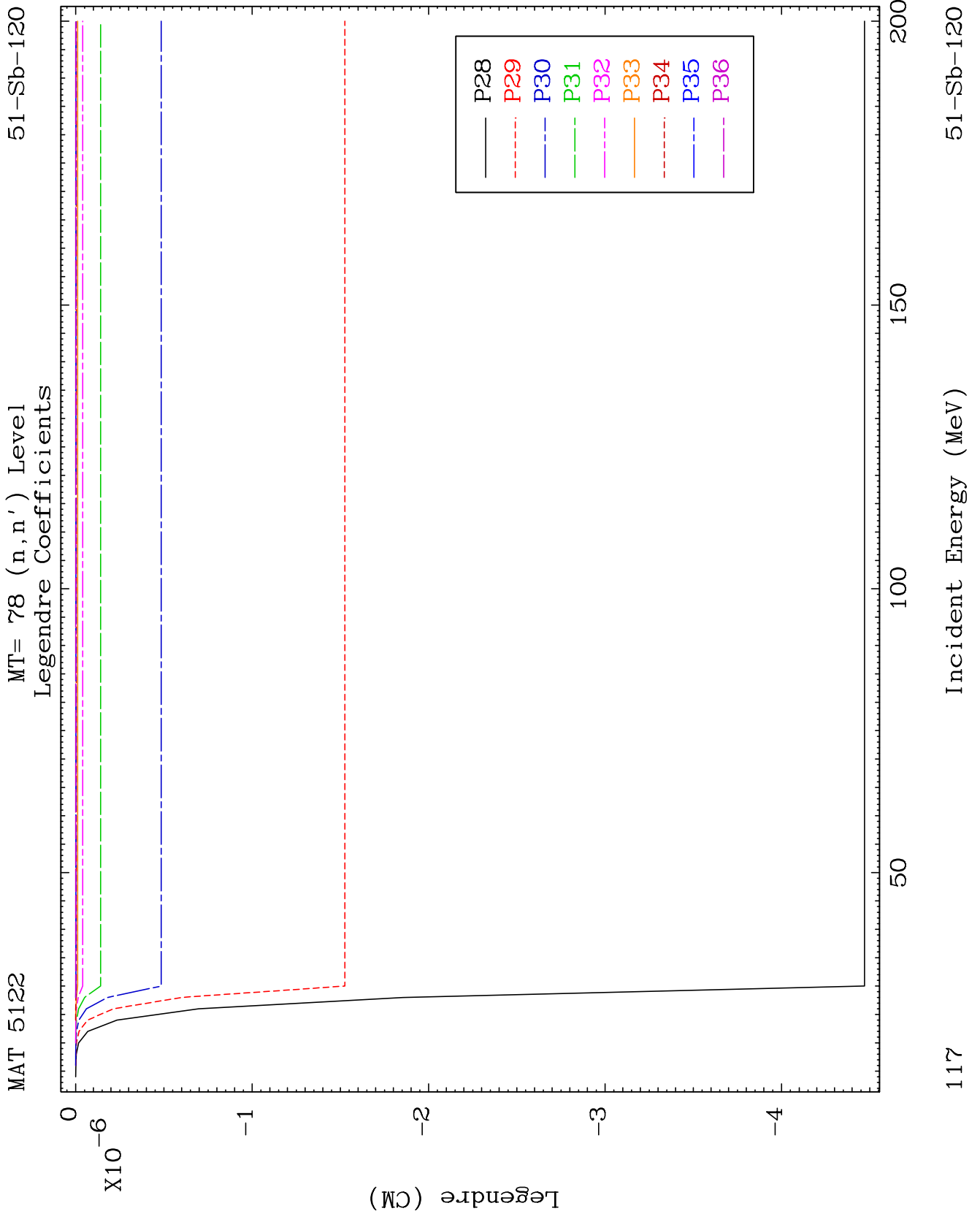


51-Sb-120

Incident Energy (MeV)

115

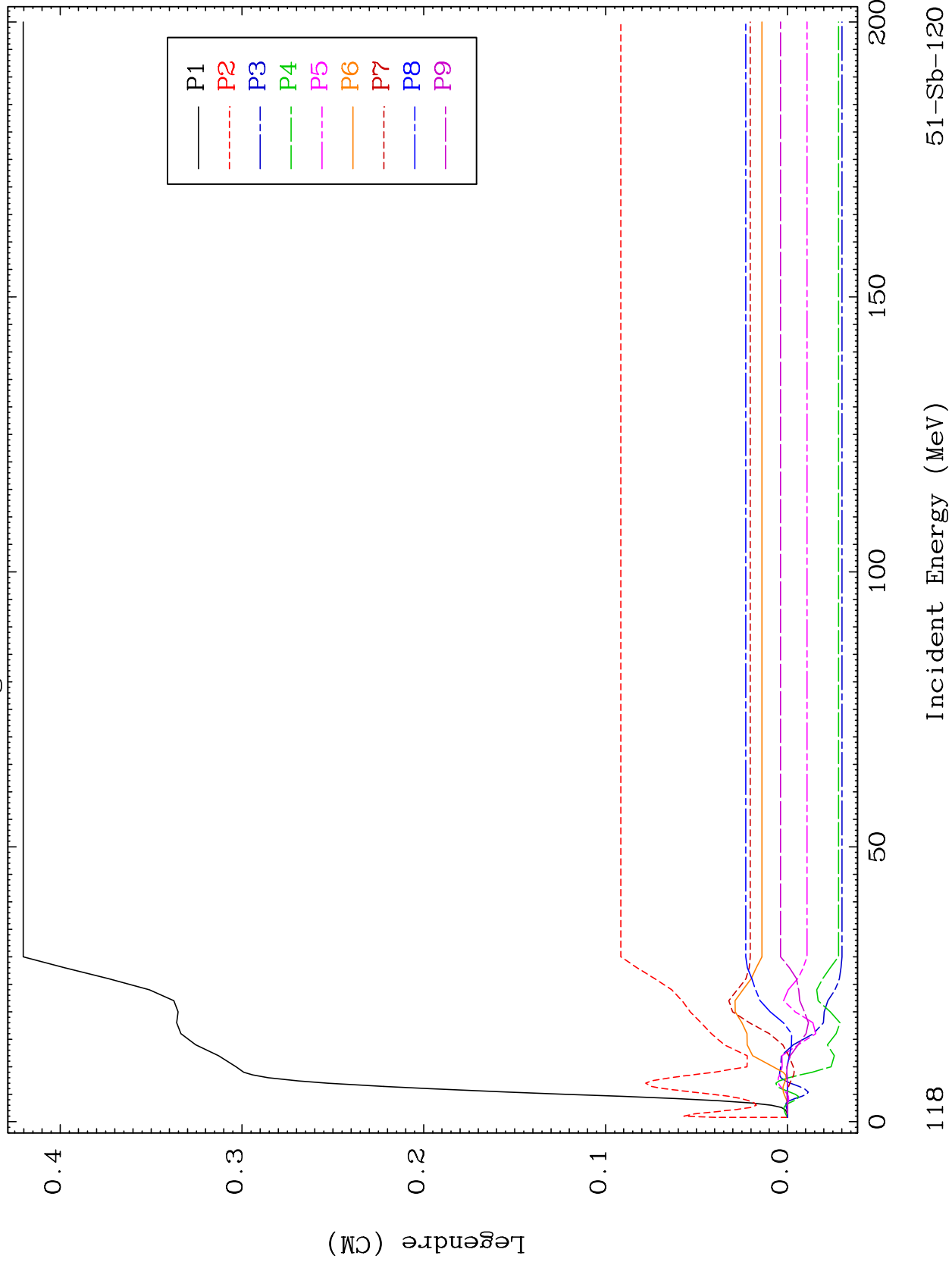




MAT 5122

MT= 79 (n,n') Level  
Legendre Coefficients

51-Sb-120



51-Sb-120

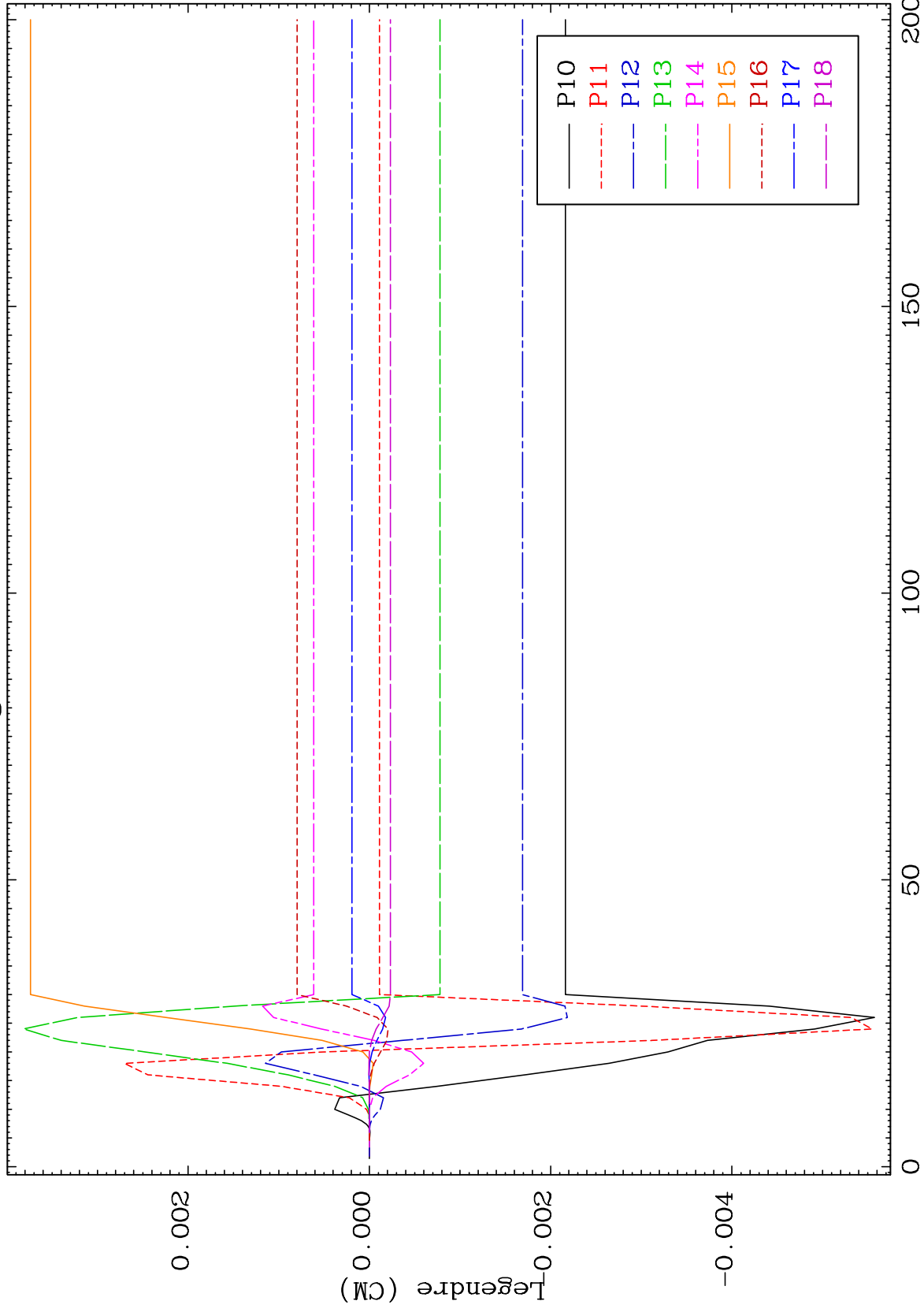
Incident Energy (MeV)

118

MAT 5122

MT= 79 (n,n') Level  
Legendre Coefficients

51-Sb-120



119

51-Sb-120

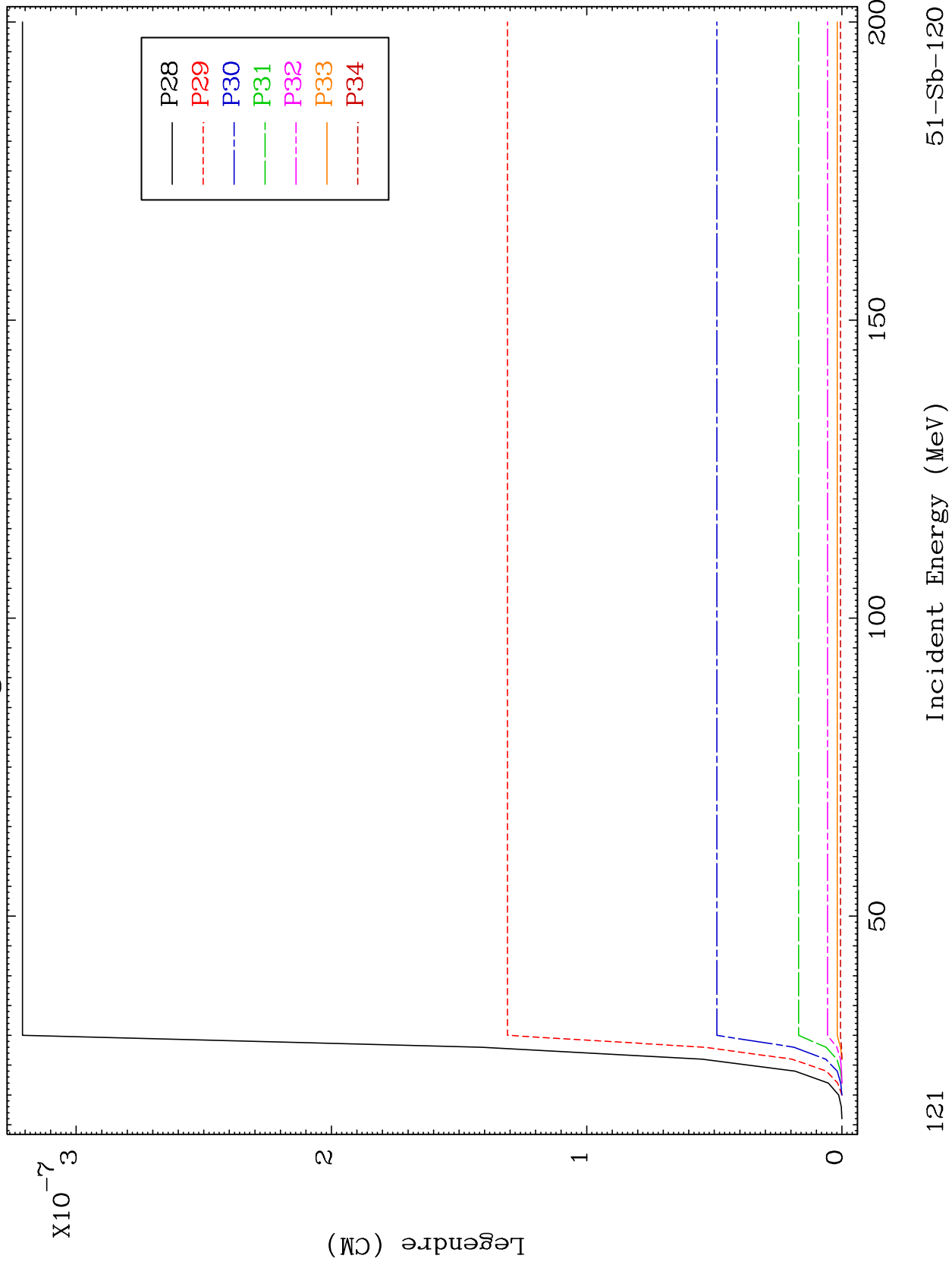




MAT 5122

MT= 79 (n,n') Level  
Legendre Coefficients

51-Sb-120



121

Incident Energy (MeV)

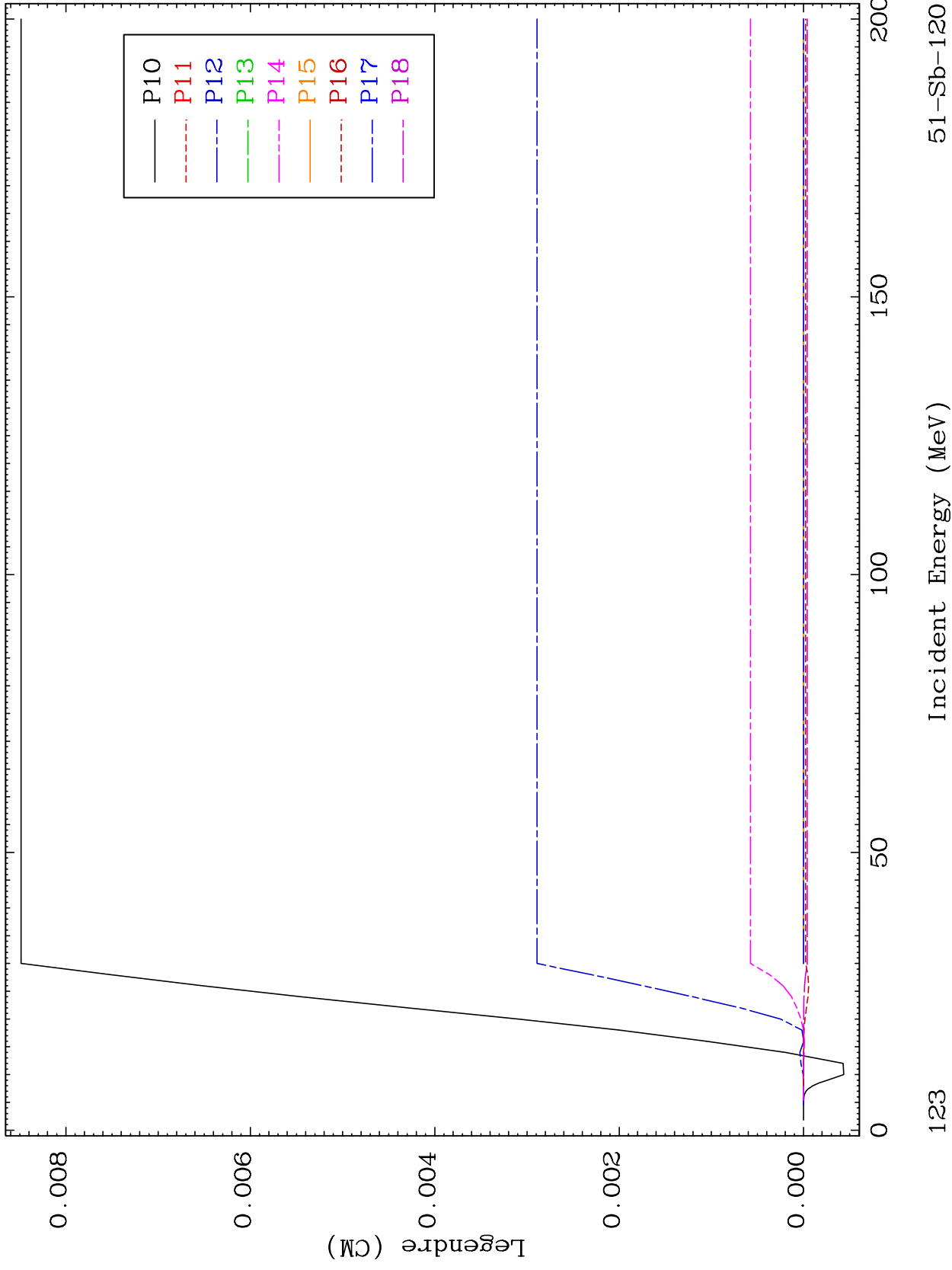
51-Sb-120



MAT 5122

MT= 80 (n,n') Level  
Legendre Coefficients

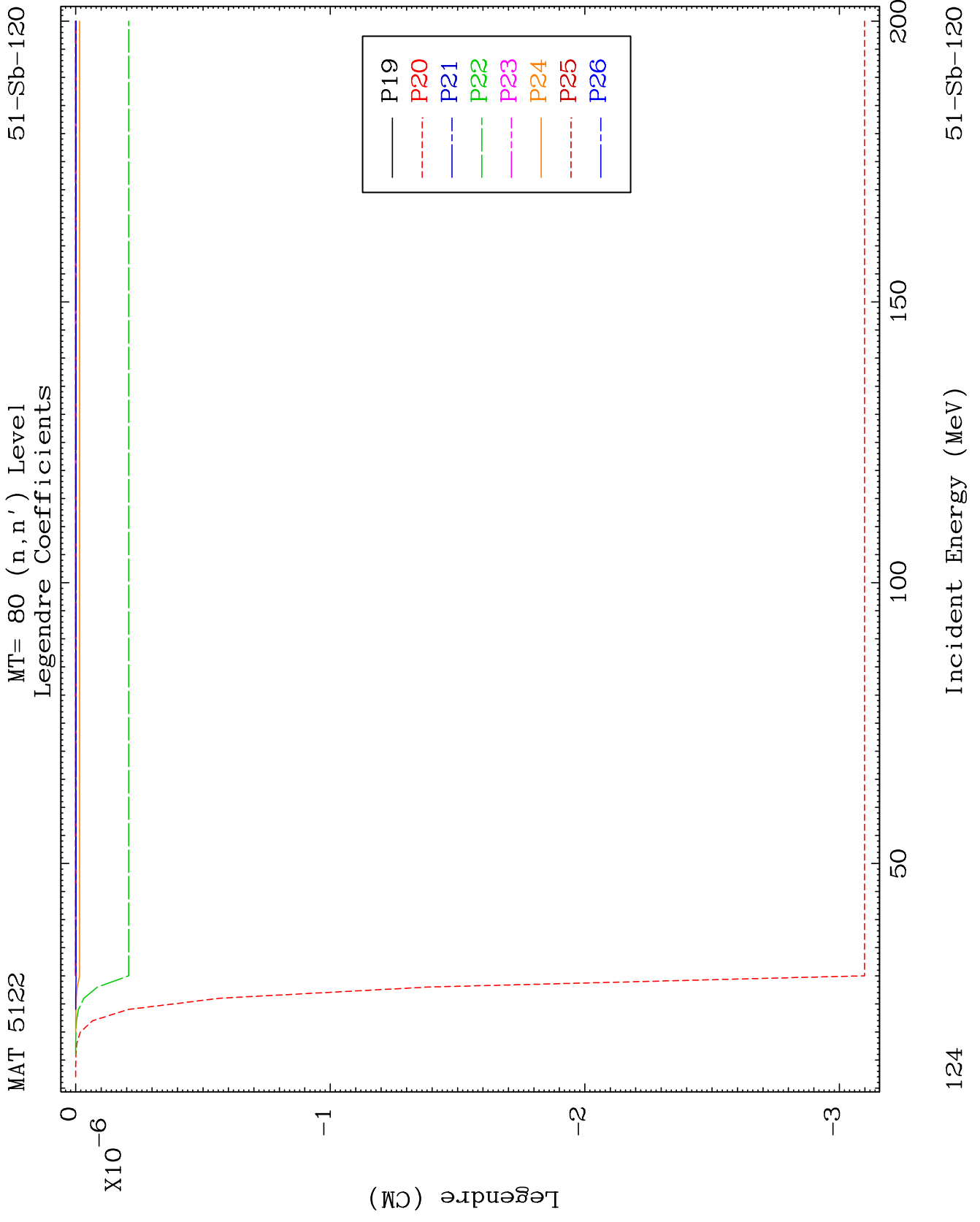
51-Sb-120



123

Incident Energy (MeV)

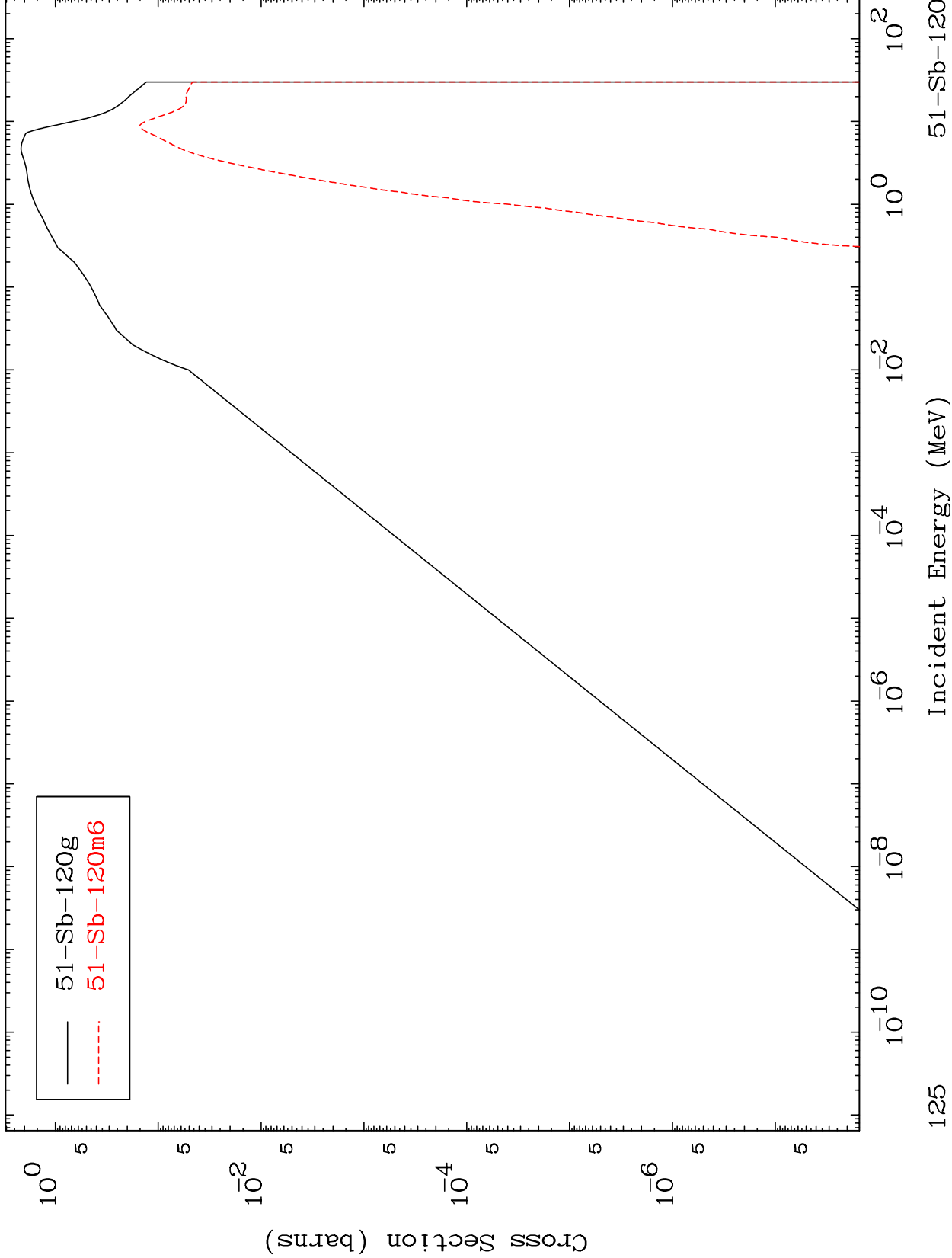
51-Sb-120



MAT 5122

Inelastic  
Radionuclide Production Cross Section

51-Sb-120

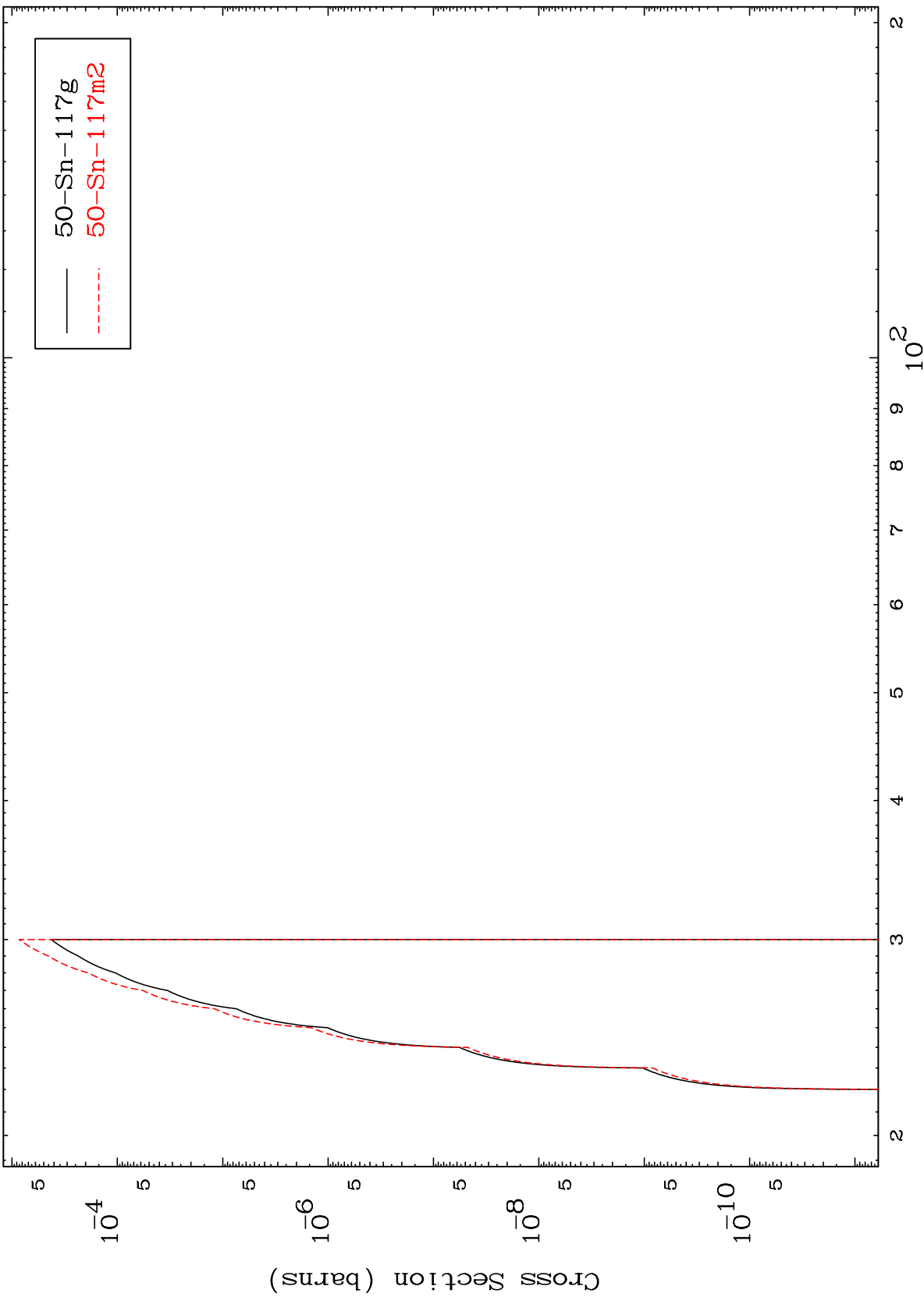


MAT 5122

(n,2n) d

51-Sb-120

Radionuclide Production Cross Section



126

Incident Energy (MeV)

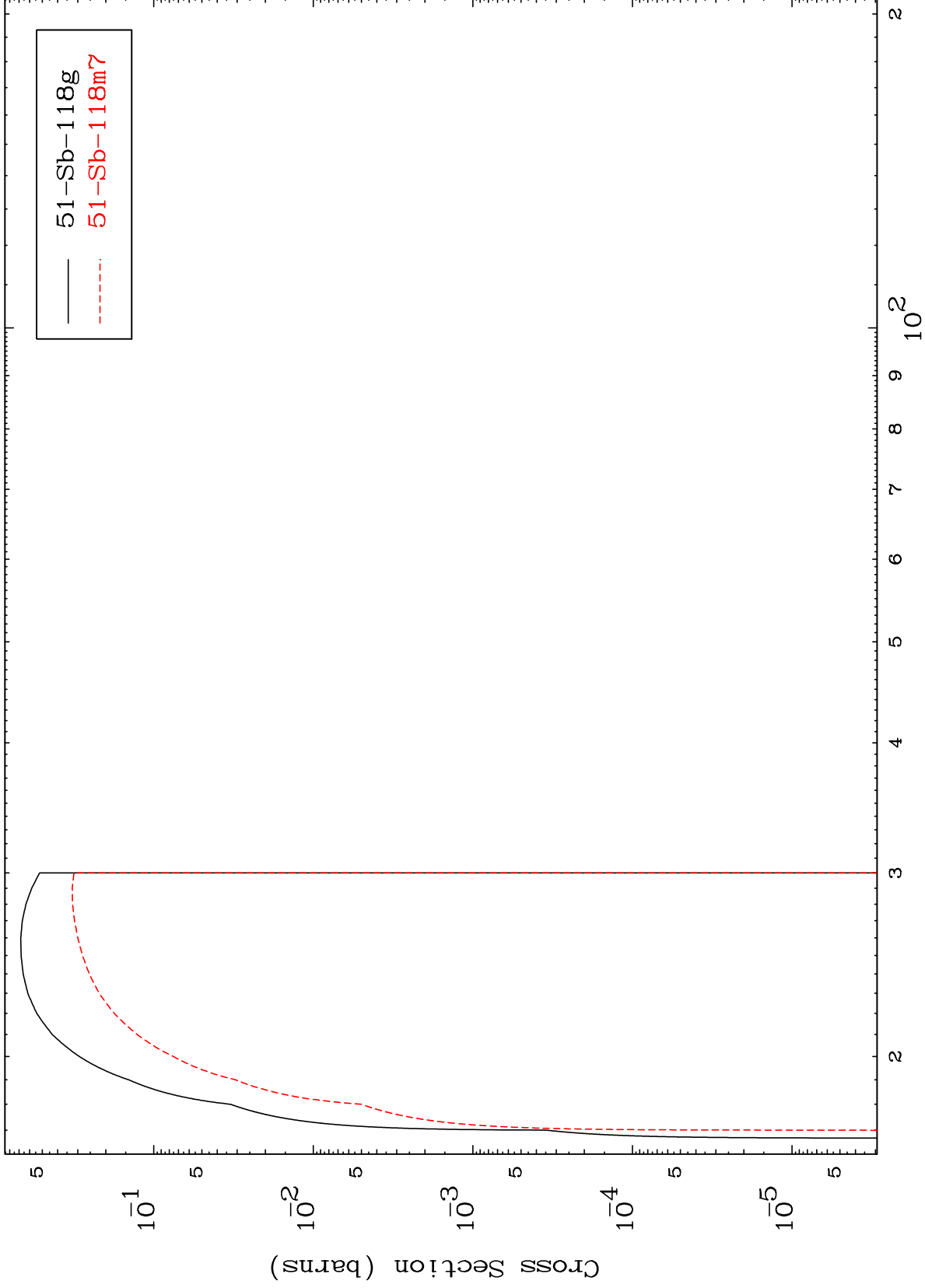
51-Sb-120

MAT 5122

(n,3n)

51-Sb-120

Radionuclide Production Cross Section



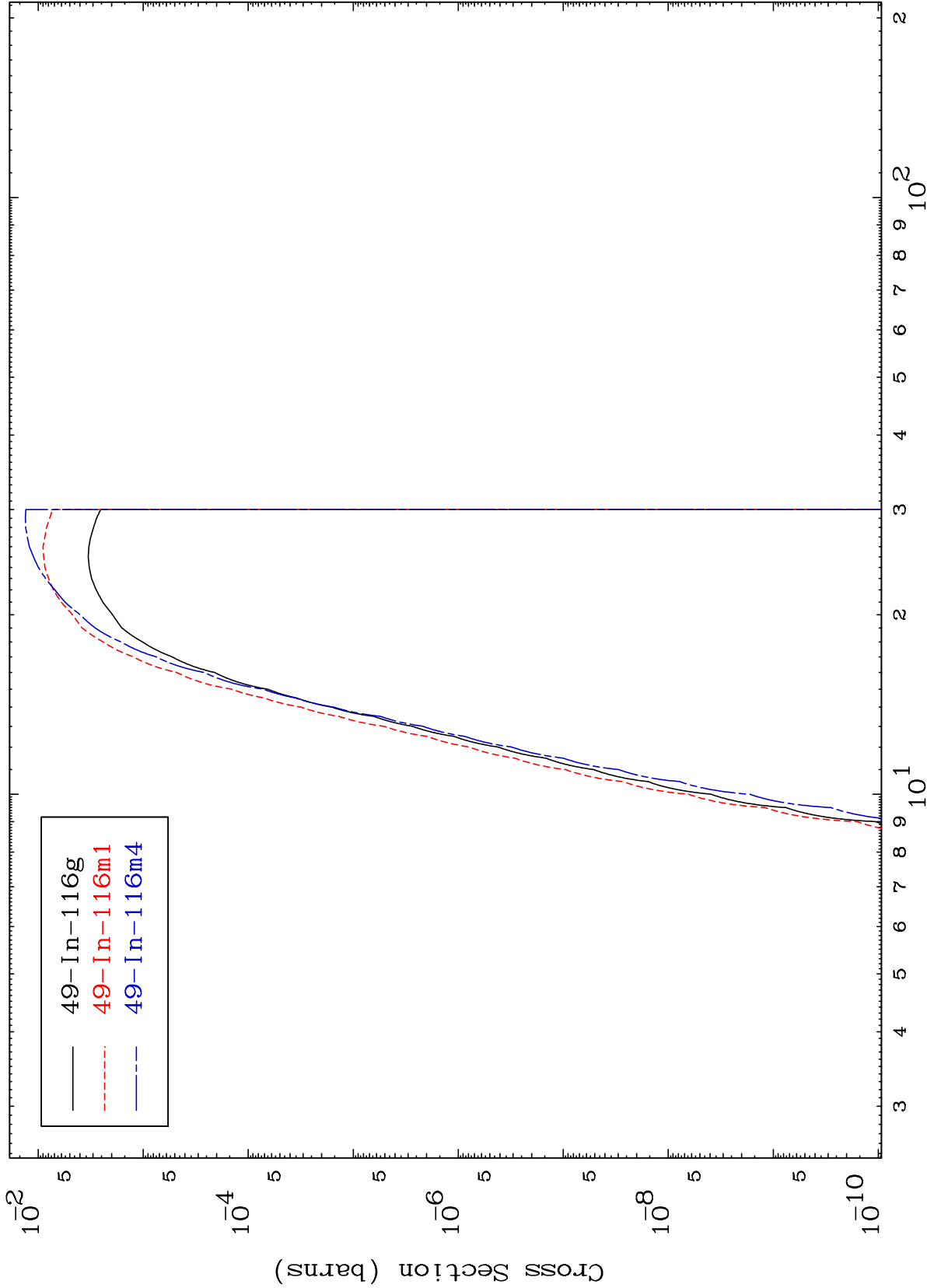
127

Incident Energy (MeV)

51-Sb-120



Radionuclide Production Cross Section

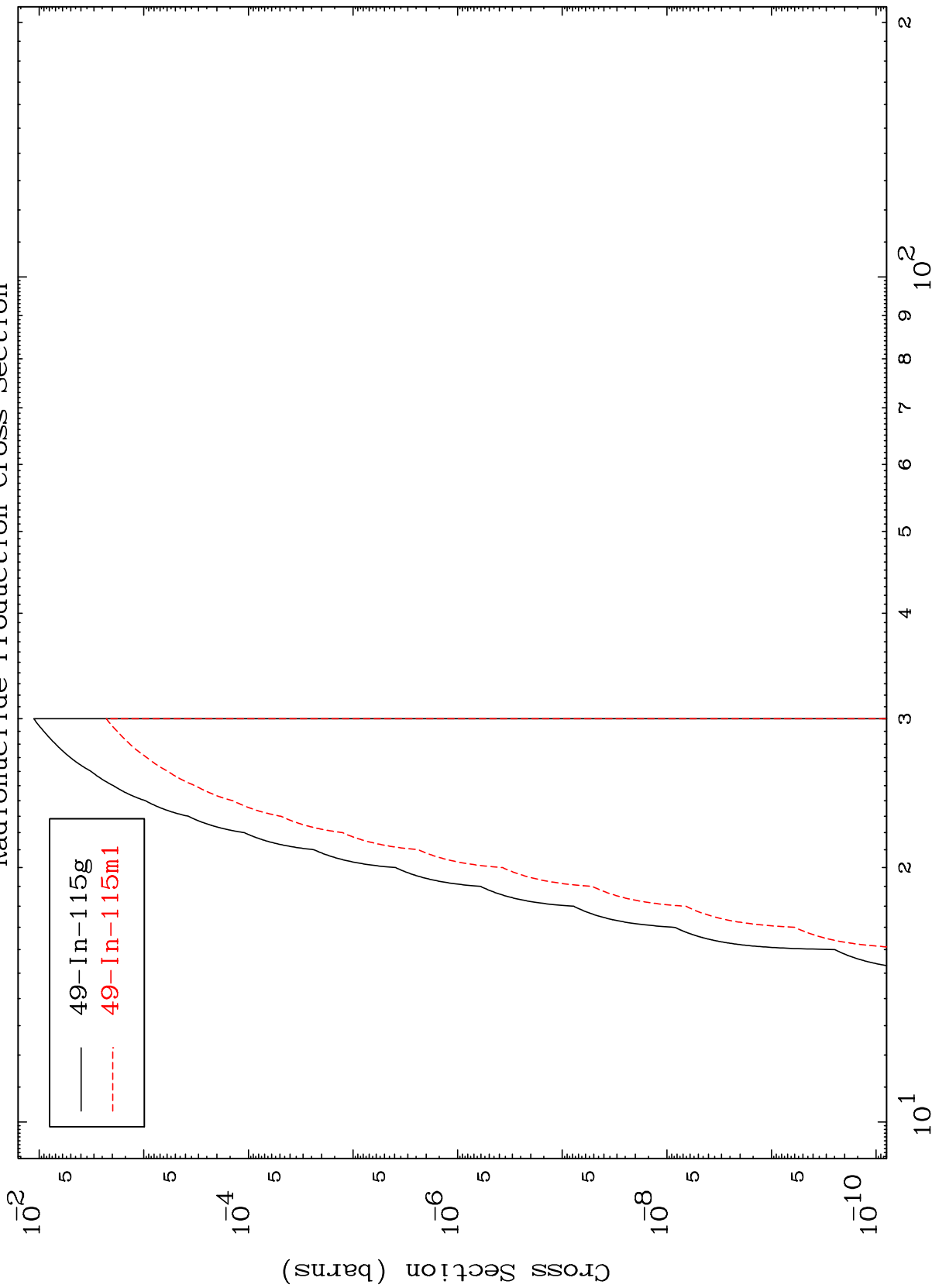


MAT 5122

(n,2n)  $\alpha$

51-Sb-120

Radionuclide Production Cross Section



— 49-In-115g  
- - - 49-In-115m1

Incident Energy (MeV)

51-Sb-120

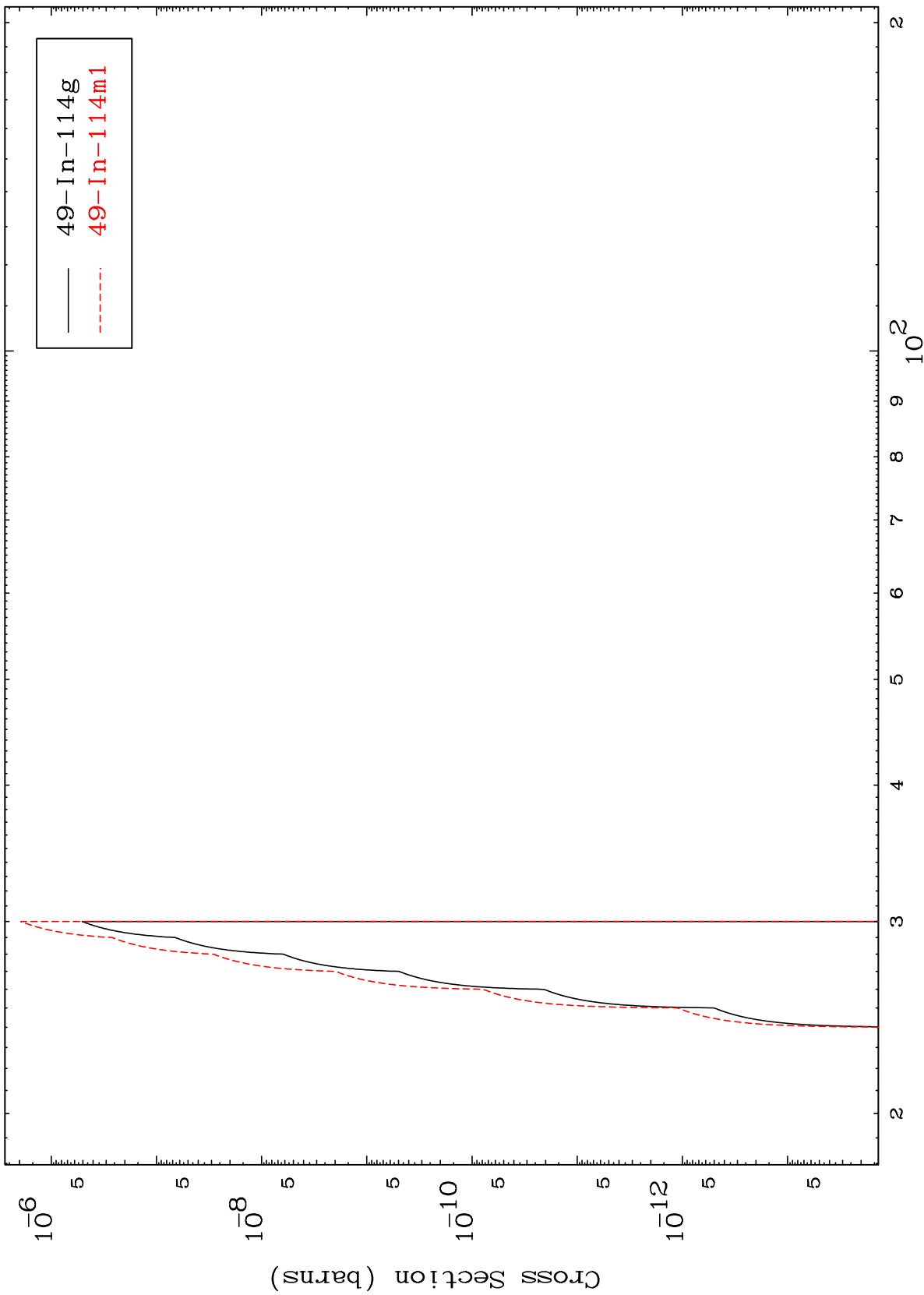
129

MAT 5122

(n,3n)  $\alpha$

51-Sb-120

Radionuclide Production Cross Section



130

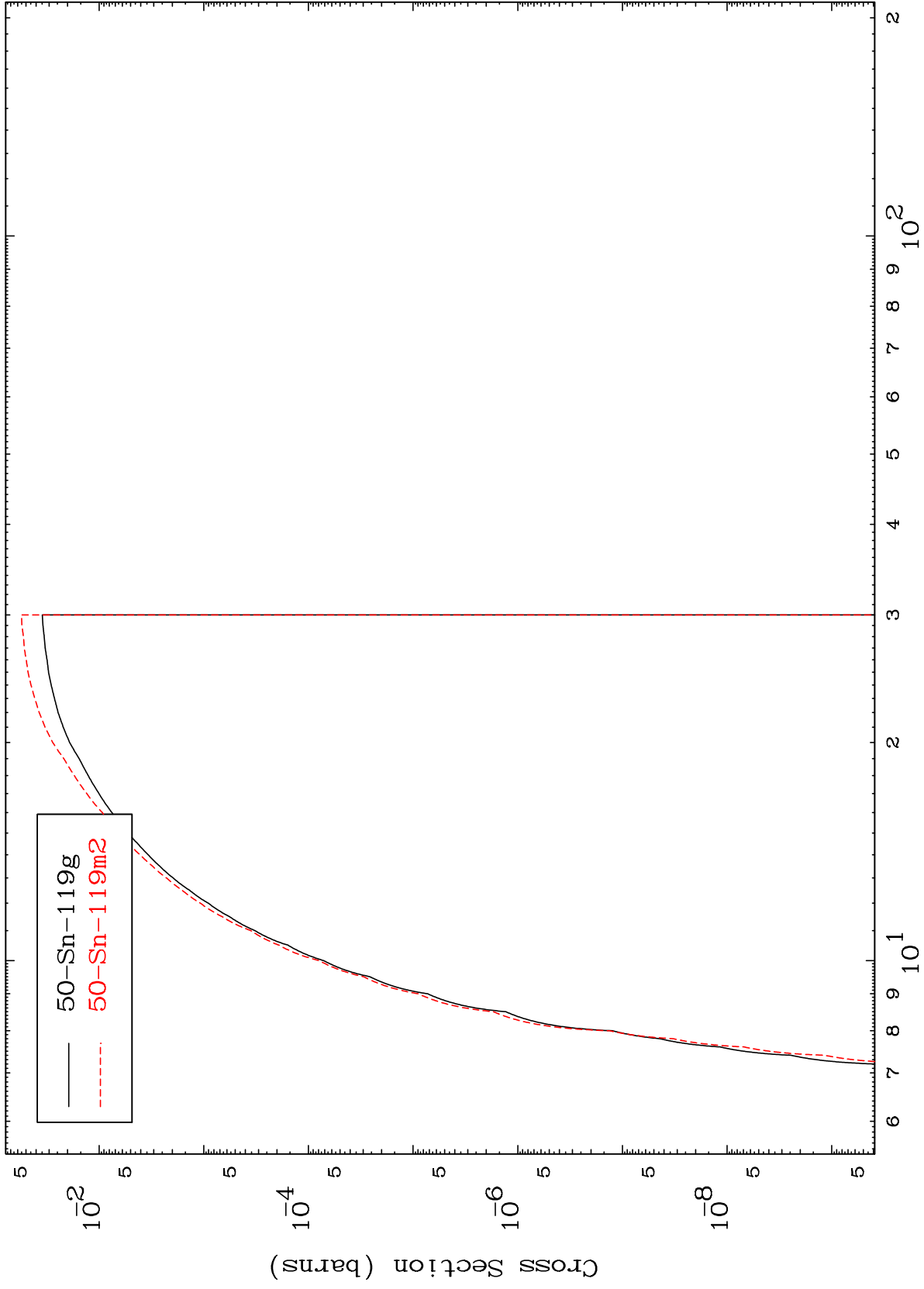
Incident Energy (MeV)

51-Sb-120

MAT 5122

51-Sb-120

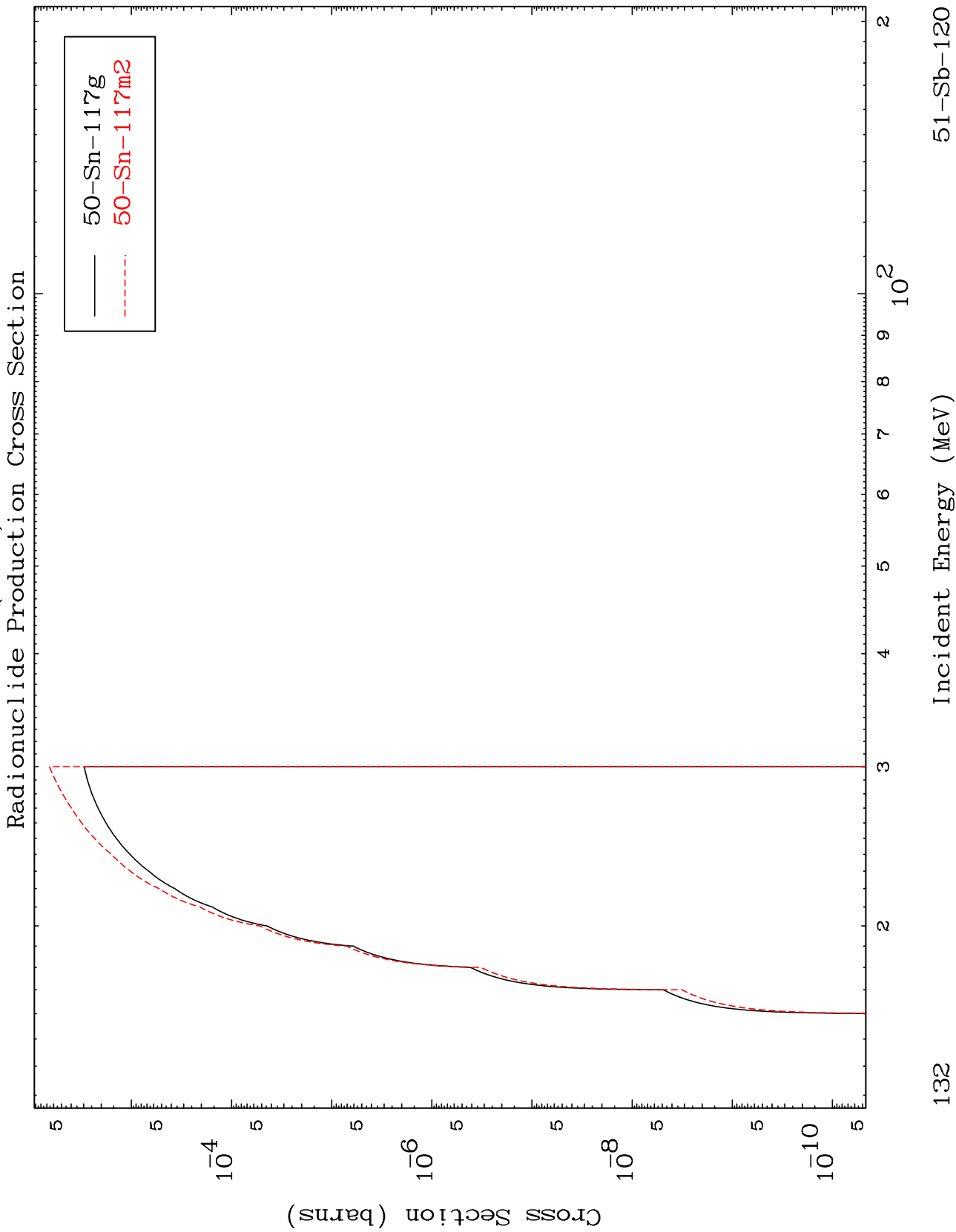
(n,n') p  
Radionuclide Production Cross Section



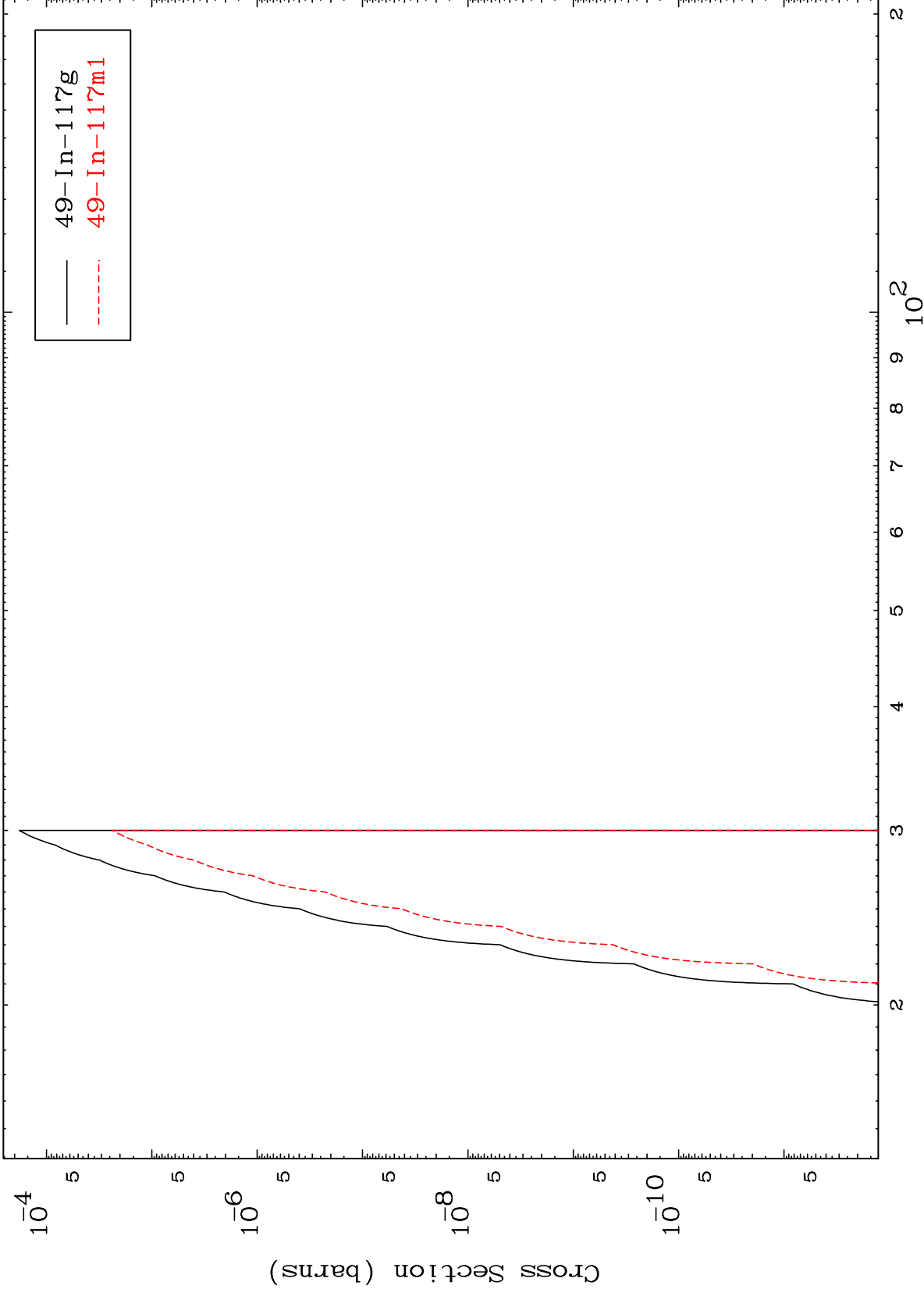
51-Sb-120

Incident Energy (MeV)

131



Radionuclide Production Cross Section



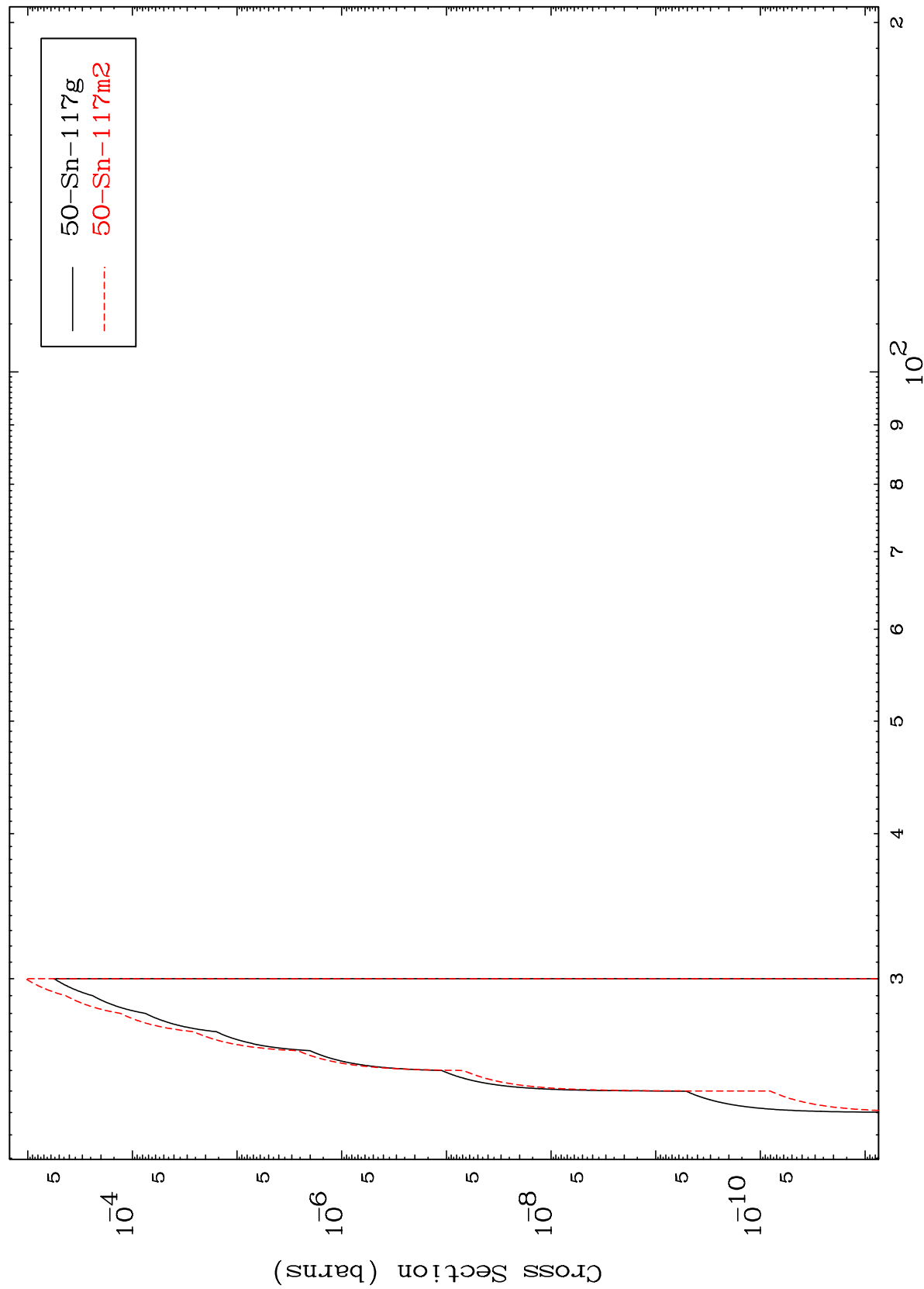
49-In-117g  
49-In-117m1

MAT 5122

(n,3n) p

51-Sb-120

Radionuclide Production Cross Section

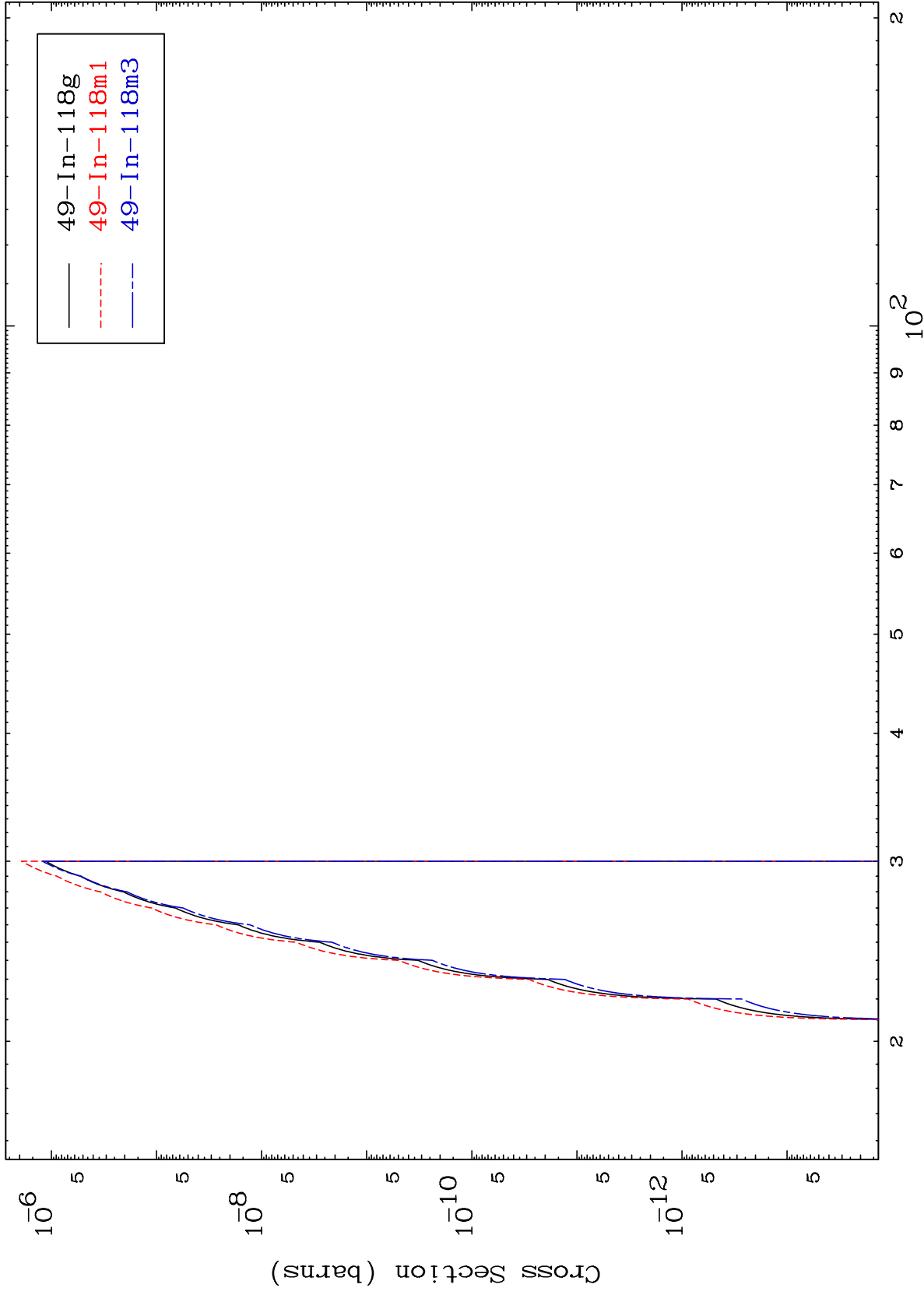


134

Incident Energy (MeV)

51-Sb-120

Radionuclide Production Cross Section



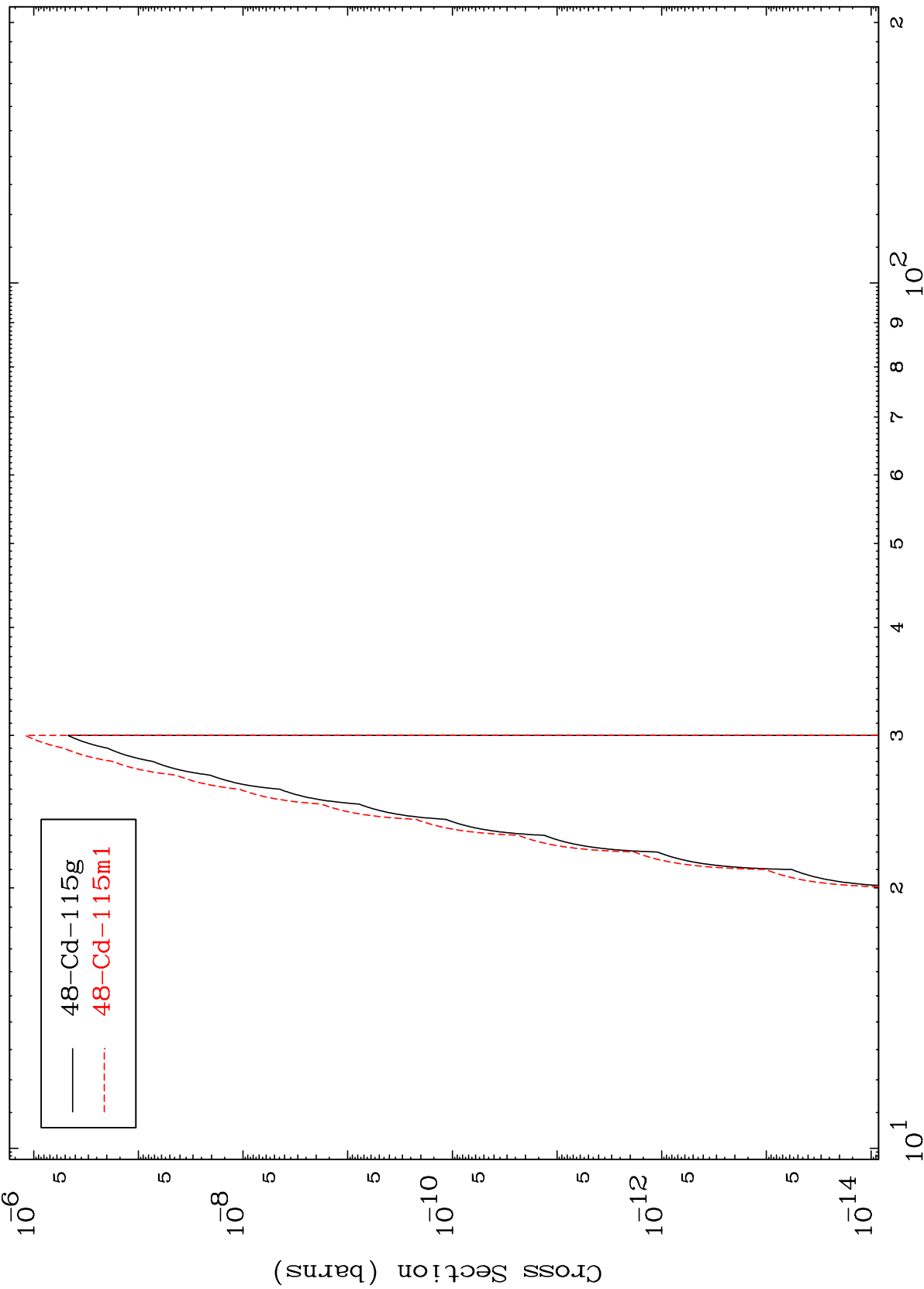


MAT 5122

(n,n') p  $\alpha$

51-Sb-120

Radionuclide Production Cross Section



136

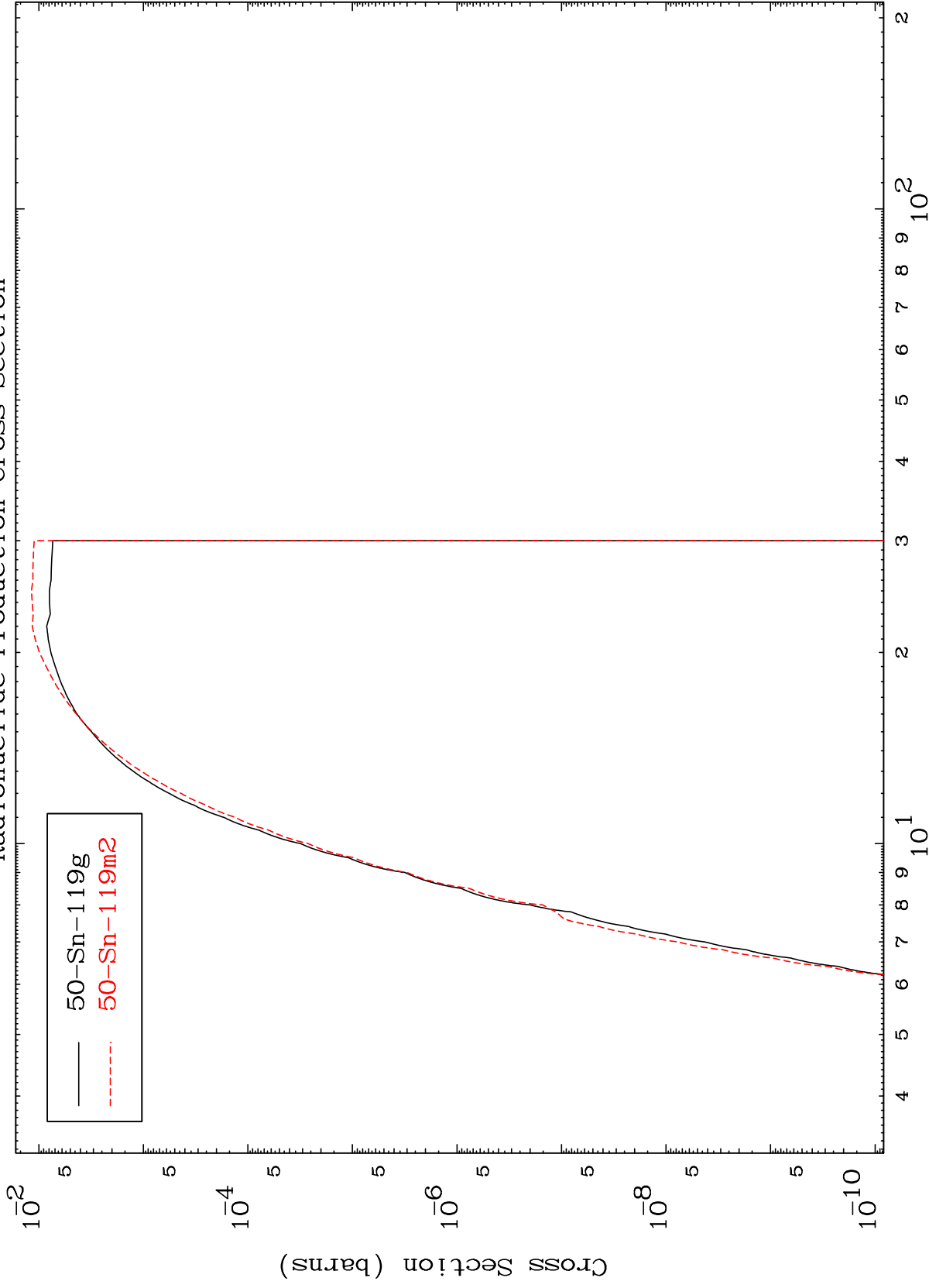
Incident Energy (MeV)

51-Sb-120

MAT 5122

51-Sb-120

(n,d)  
Radionuclide Production Cross Section

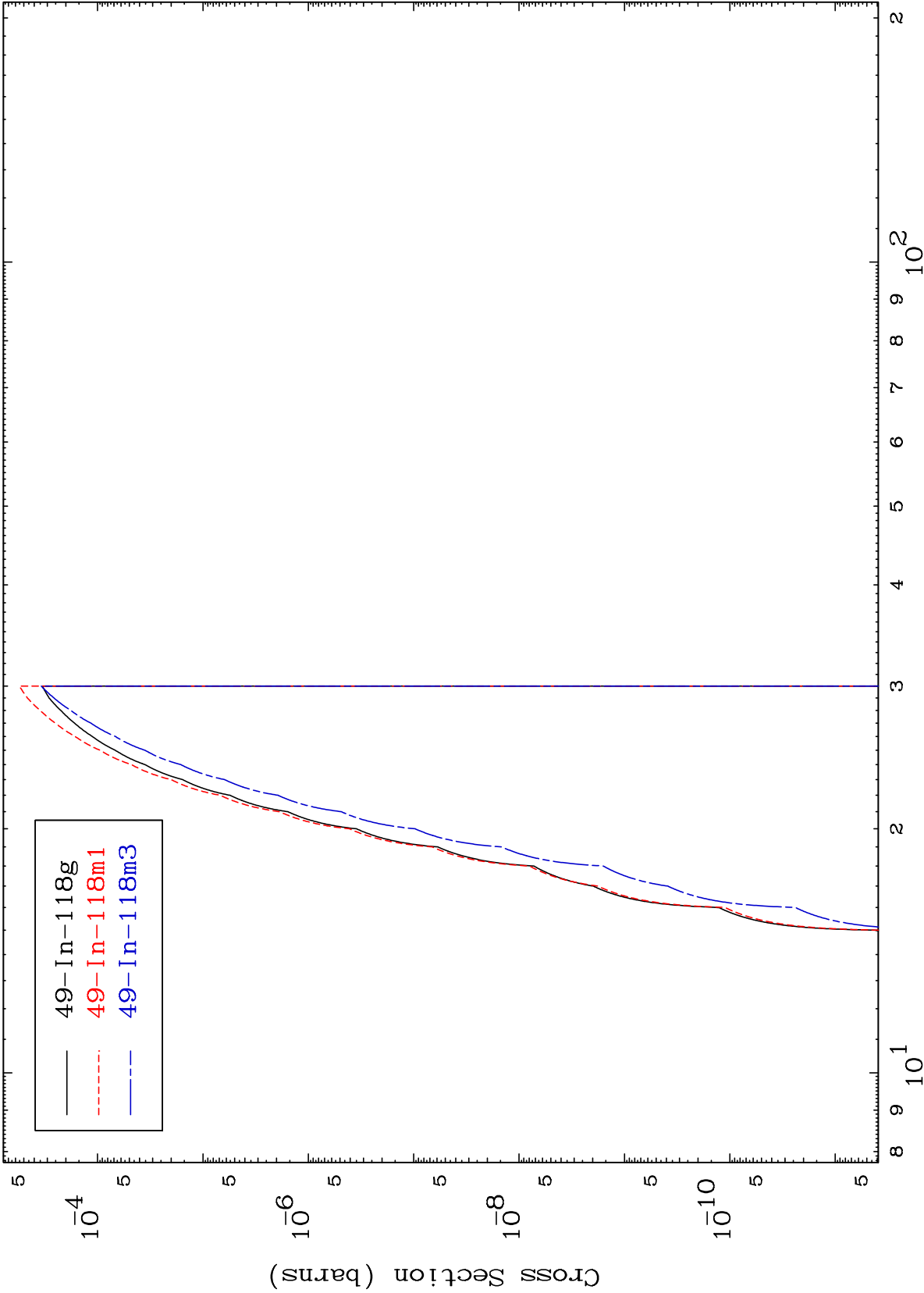


137

Incident Energy (MeV)

51-Sb-120

(n,He-3)  
Radionuclide Production Cross Section



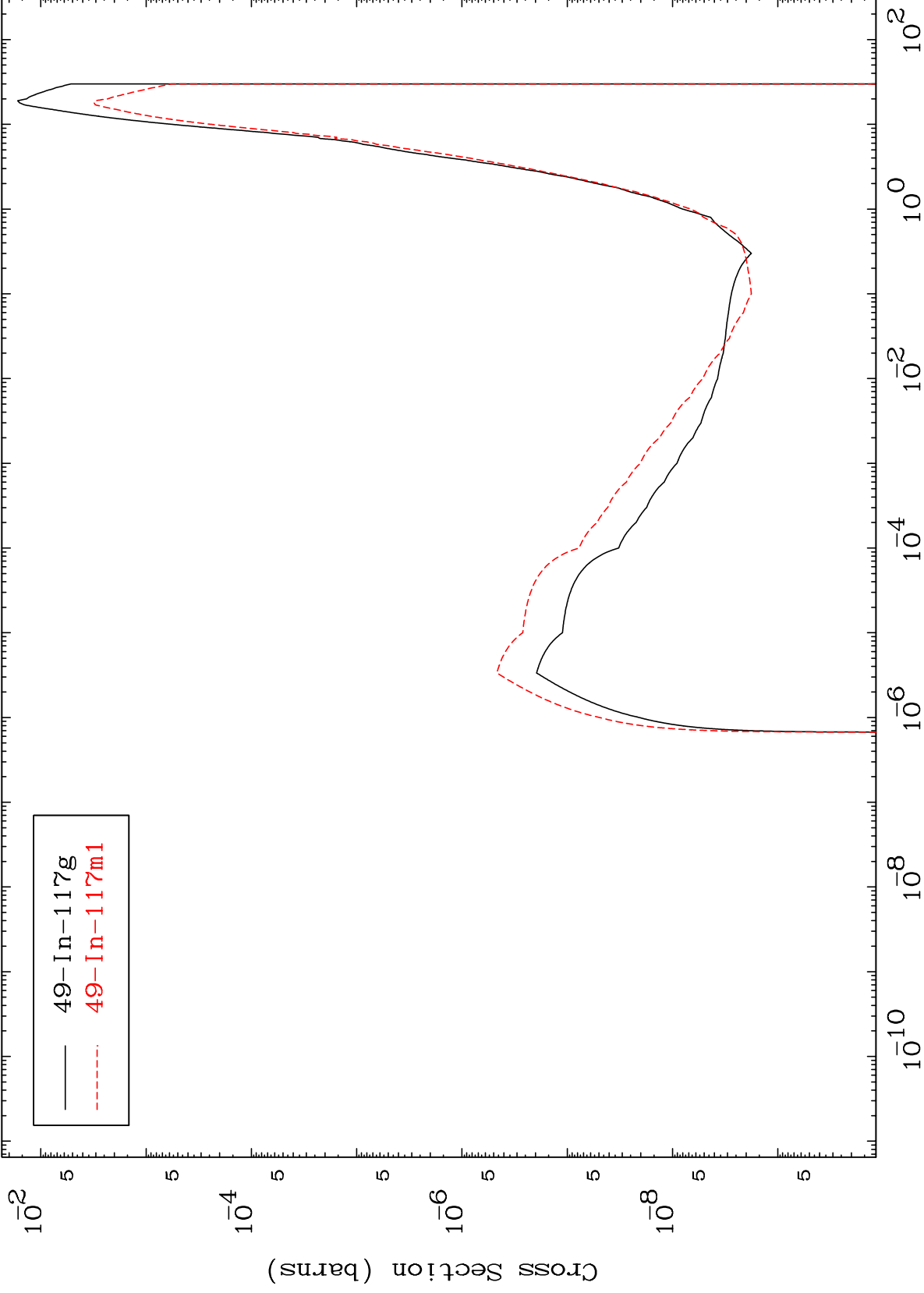
49-In-118g  
49-In-118m1  
49-In-118m3

MAT 5122

(n,  $\alpha$ )

51-Sb-120

Radionuclide Production Cross Section



139

Incident Energy (MeV)

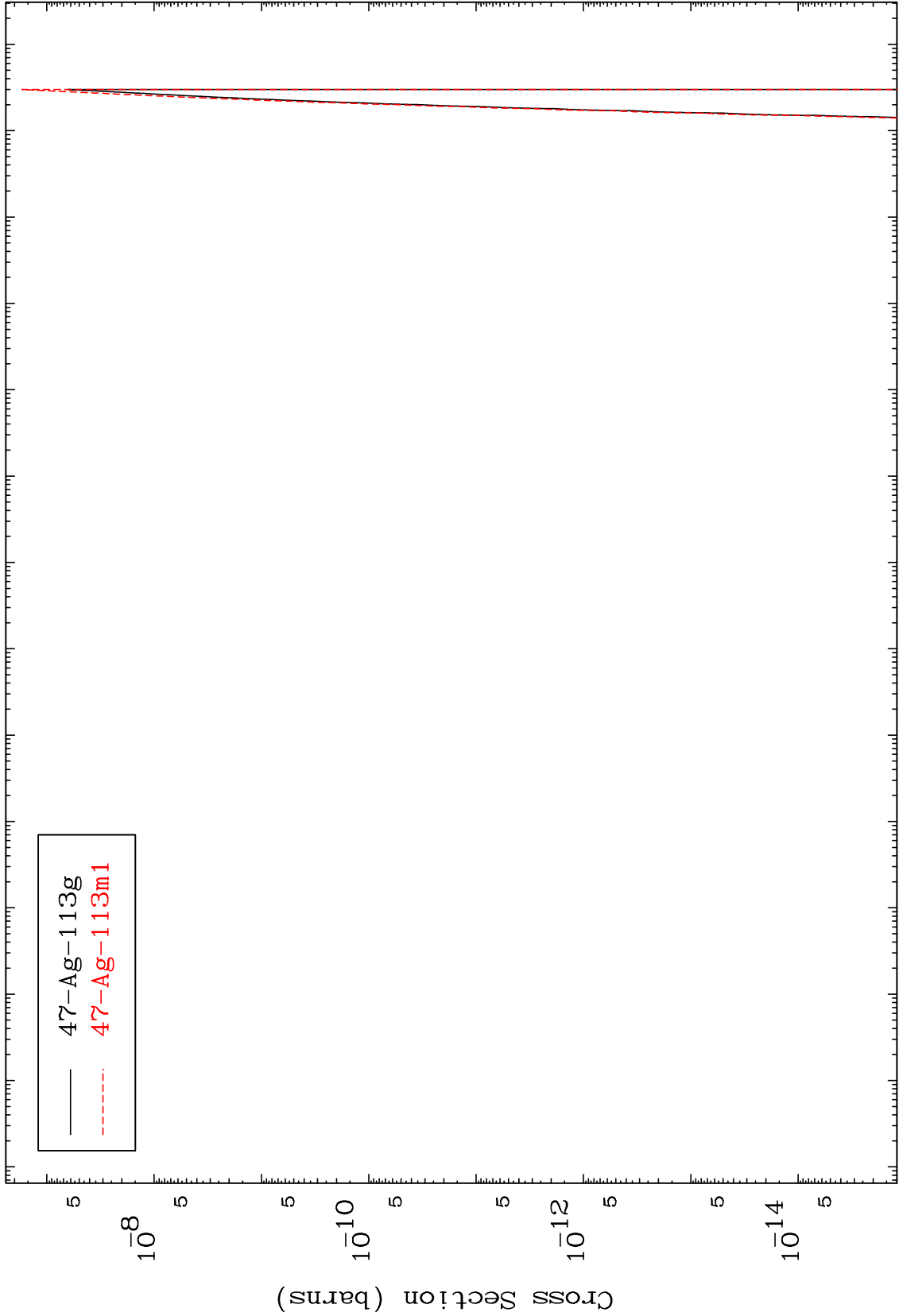
51-Sb-120

MAT 5122

(n,2α)

51-Sb-120

Radionuclide Production Cross Section

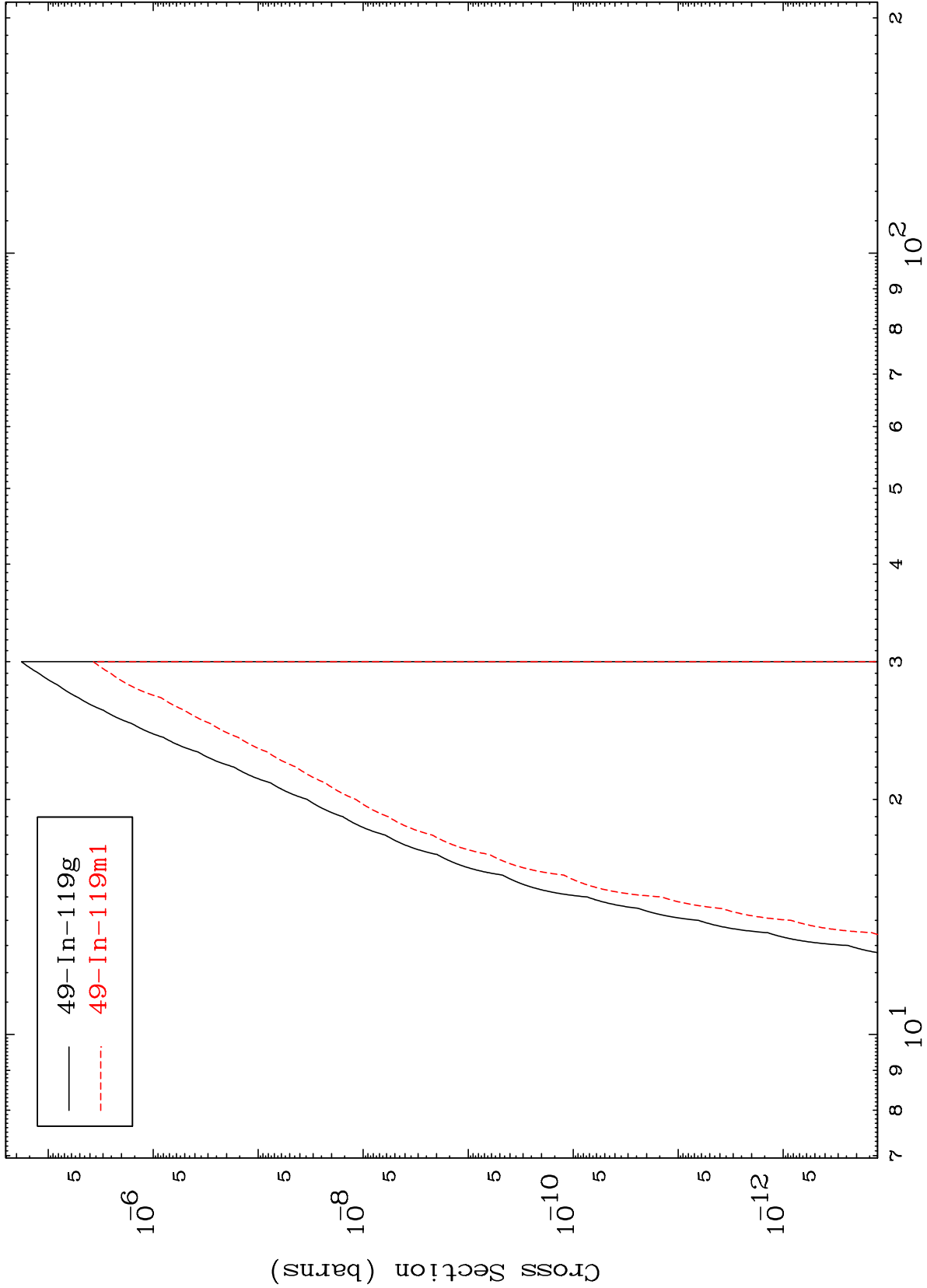


— 47-Ag-113g  
- - - 47-Ag-113m1

MAT 5122

51-Sb-120

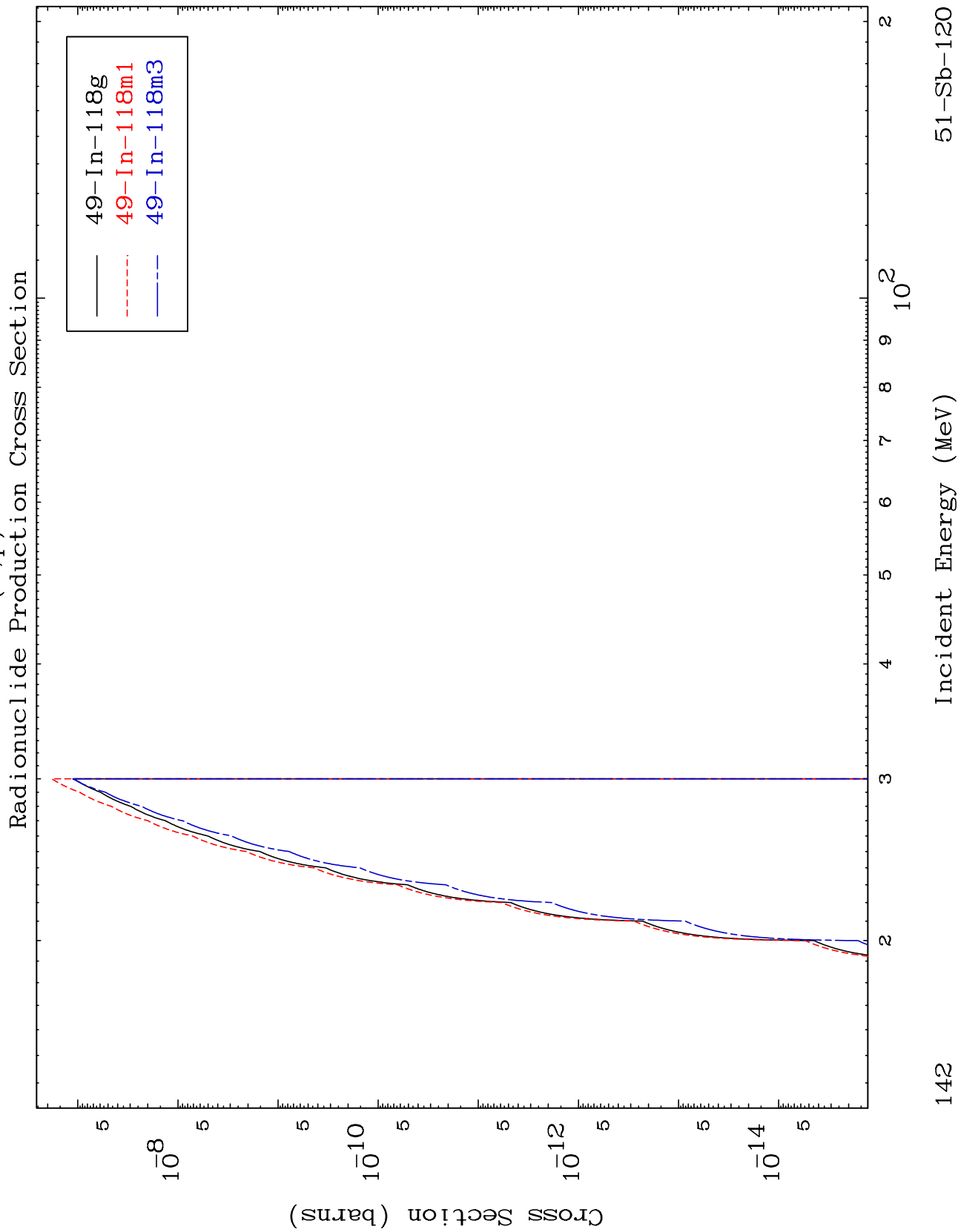
(n,2p)  
Radionuclide Production Cross Section



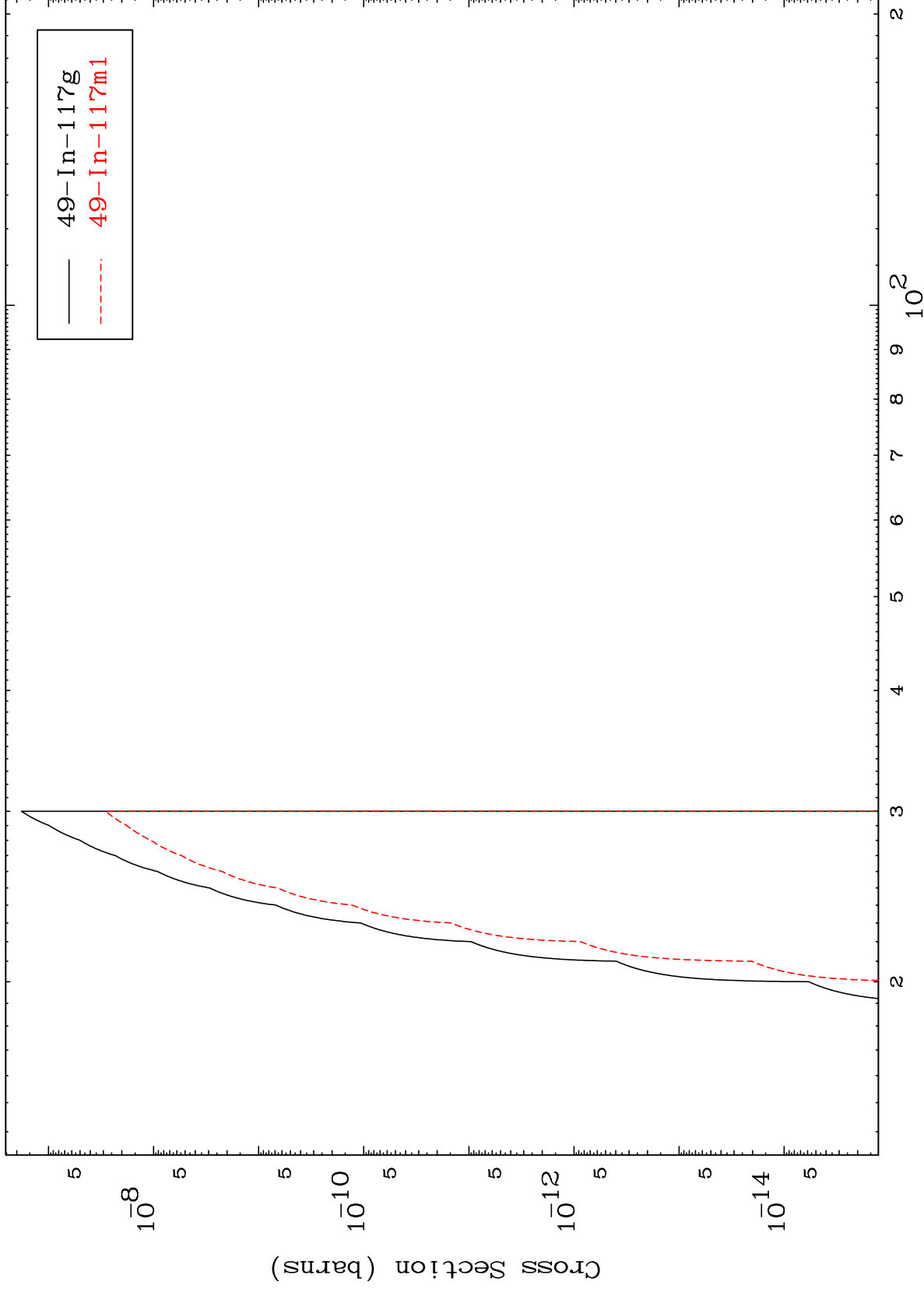
141

Incident Energy (MeV)

51-Sb-120



Radionuclide Production Cross Section



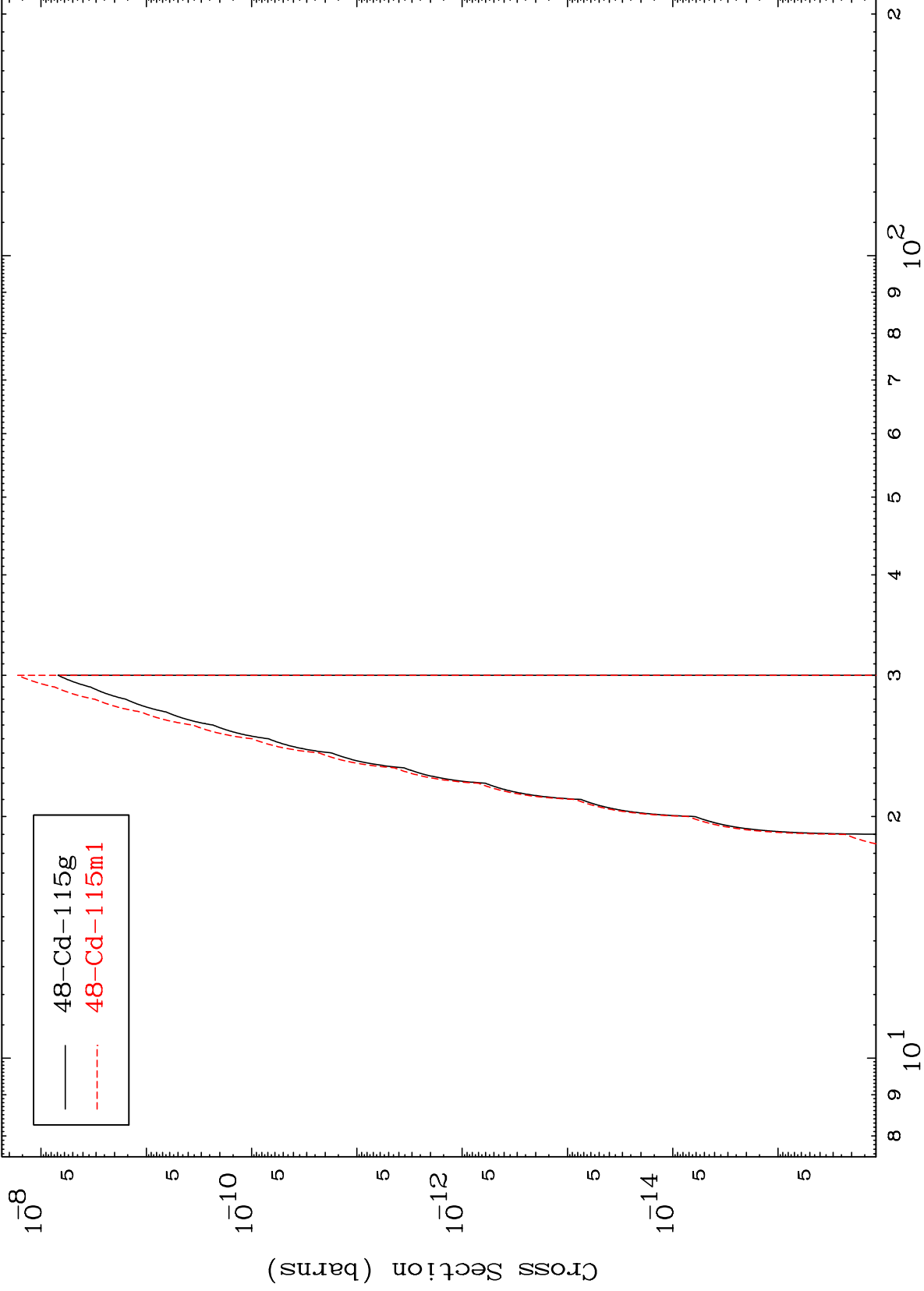


MAT 5122

(n,d)  $\alpha$

51-Sb-120

Radionuclide Production Cross Section



144

Incident Energy (MeV)

51-Sb-120