

Program EVALPLOT  
(Version 2021-1)

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

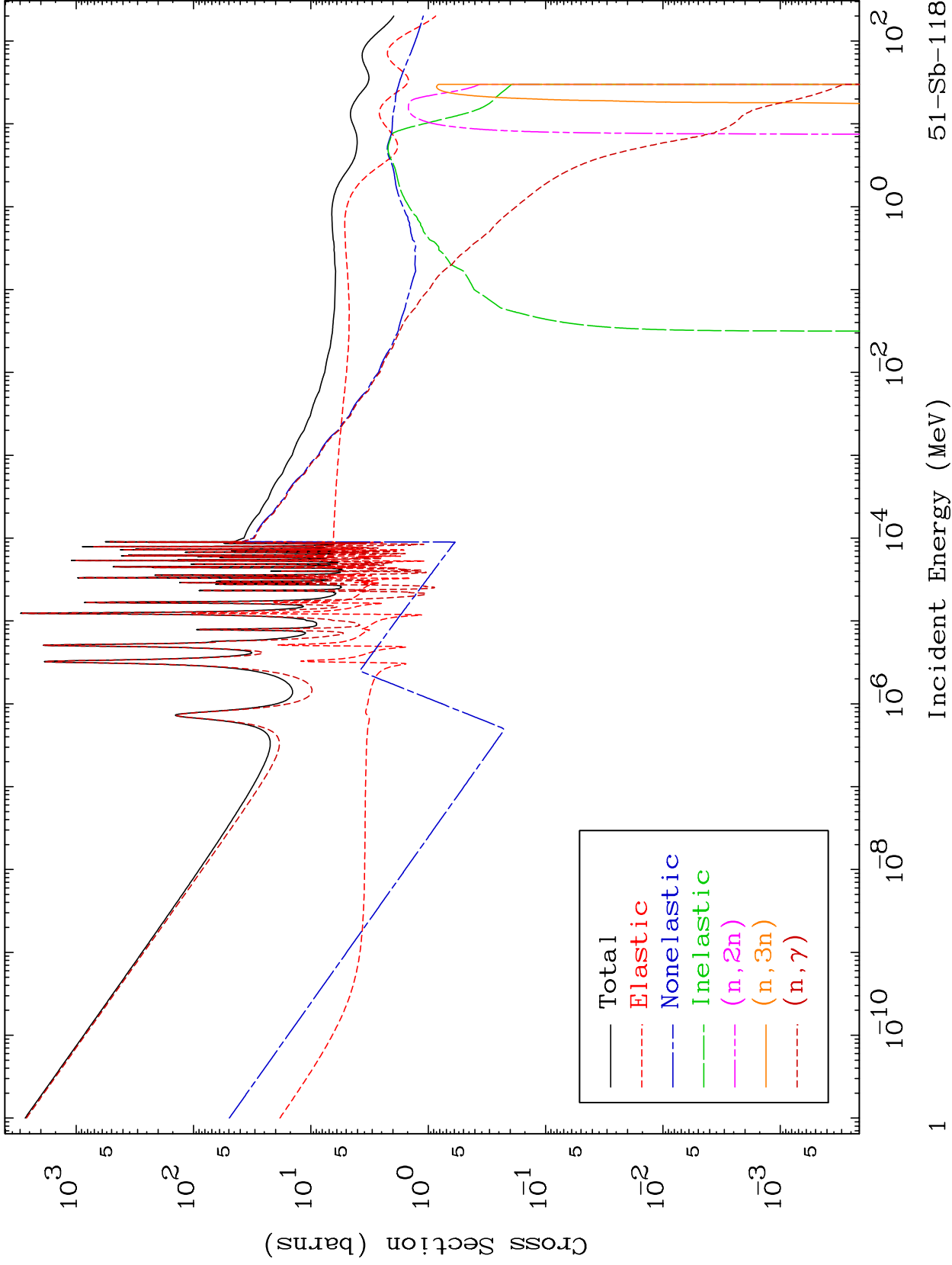
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5116

Neutron Major  
293 Kelvin Cross Sections

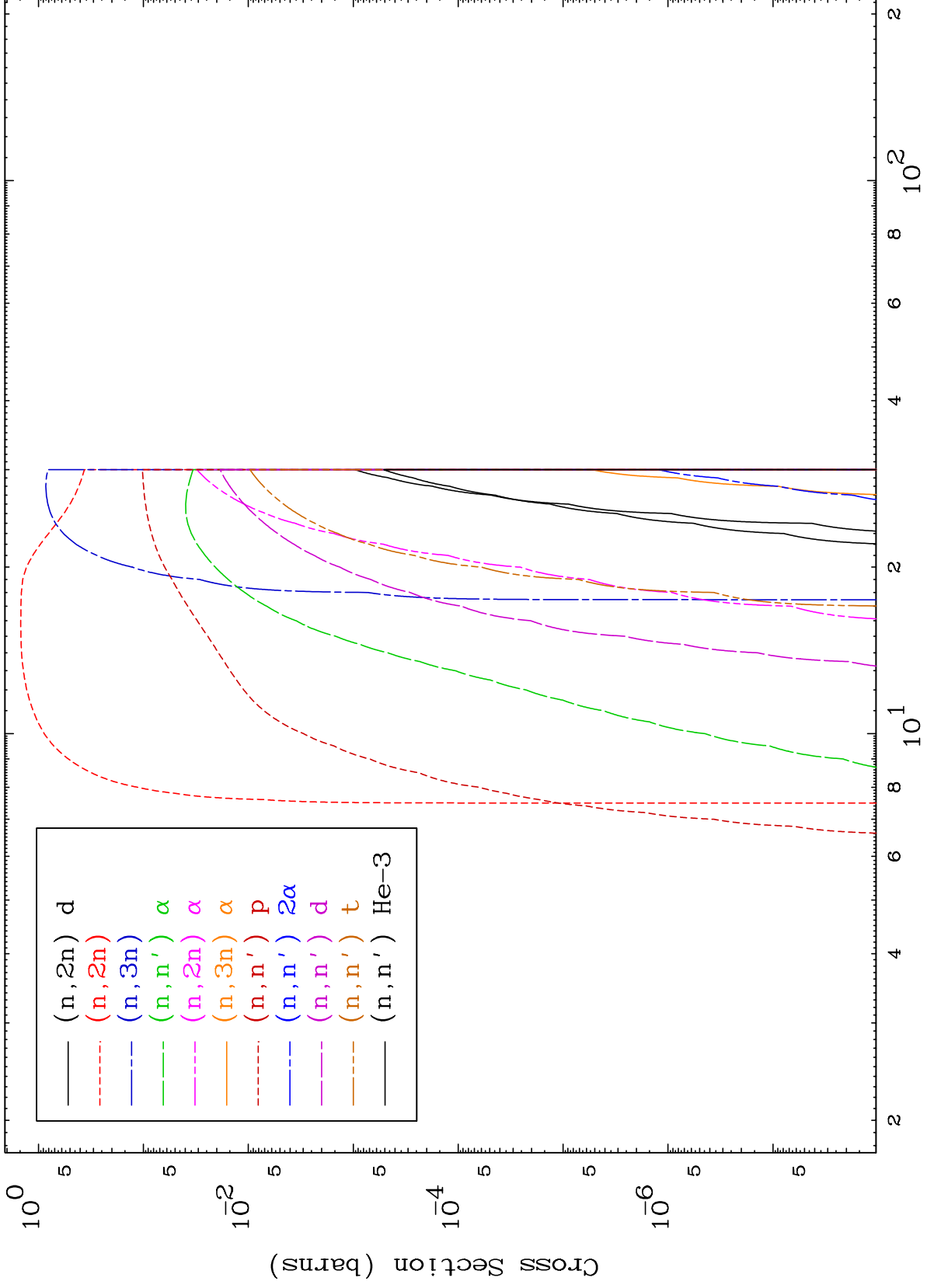
51-Sb-118



MAT 5116

Neutron Absorption  
293 Kelvin Cross Sections

51-Sb-118



2

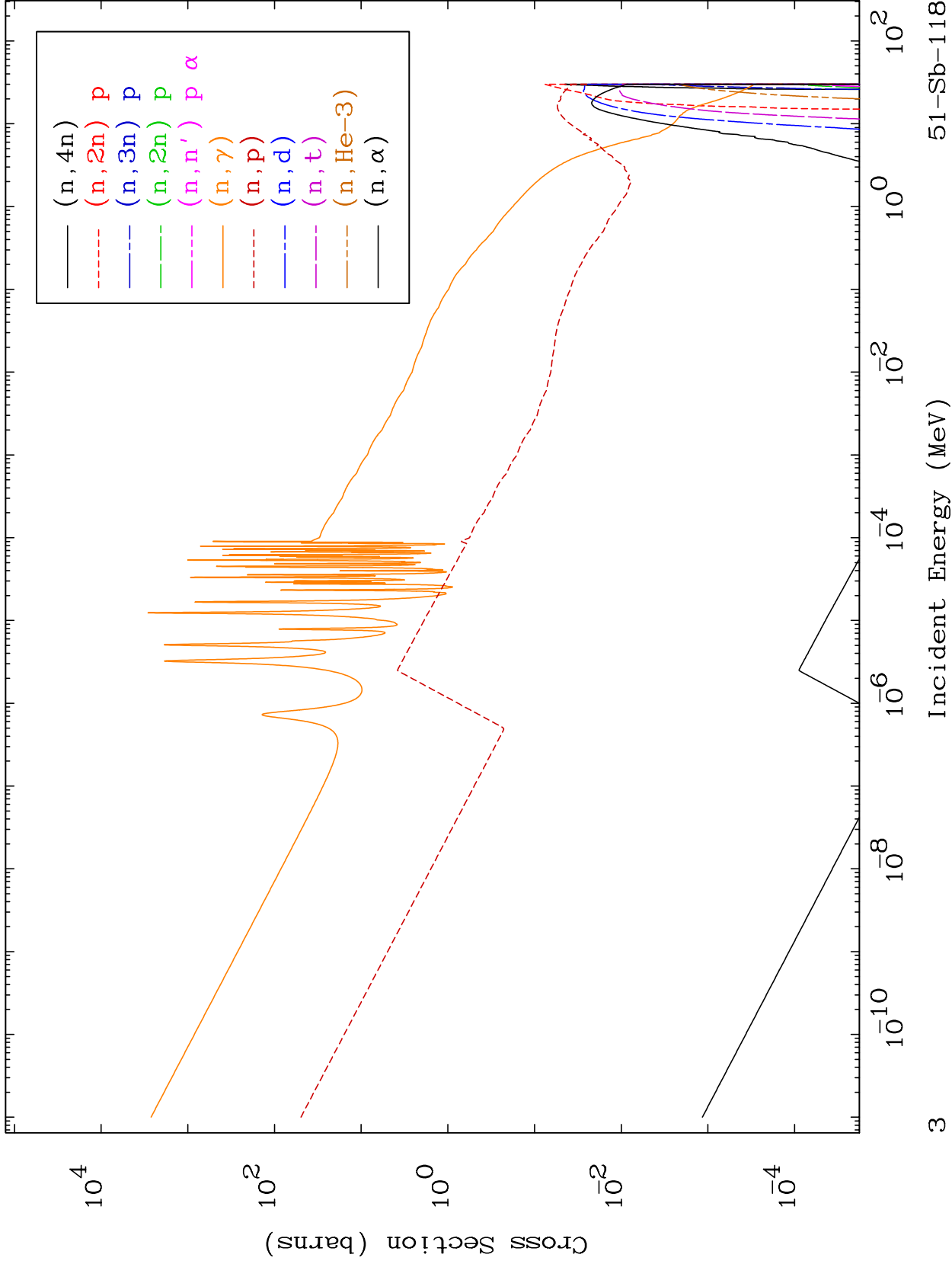
Incident Energy (MeV)

51-Sb-118

MAT 5116

Neutron Absorption  
293 Kelvin Cross Sections

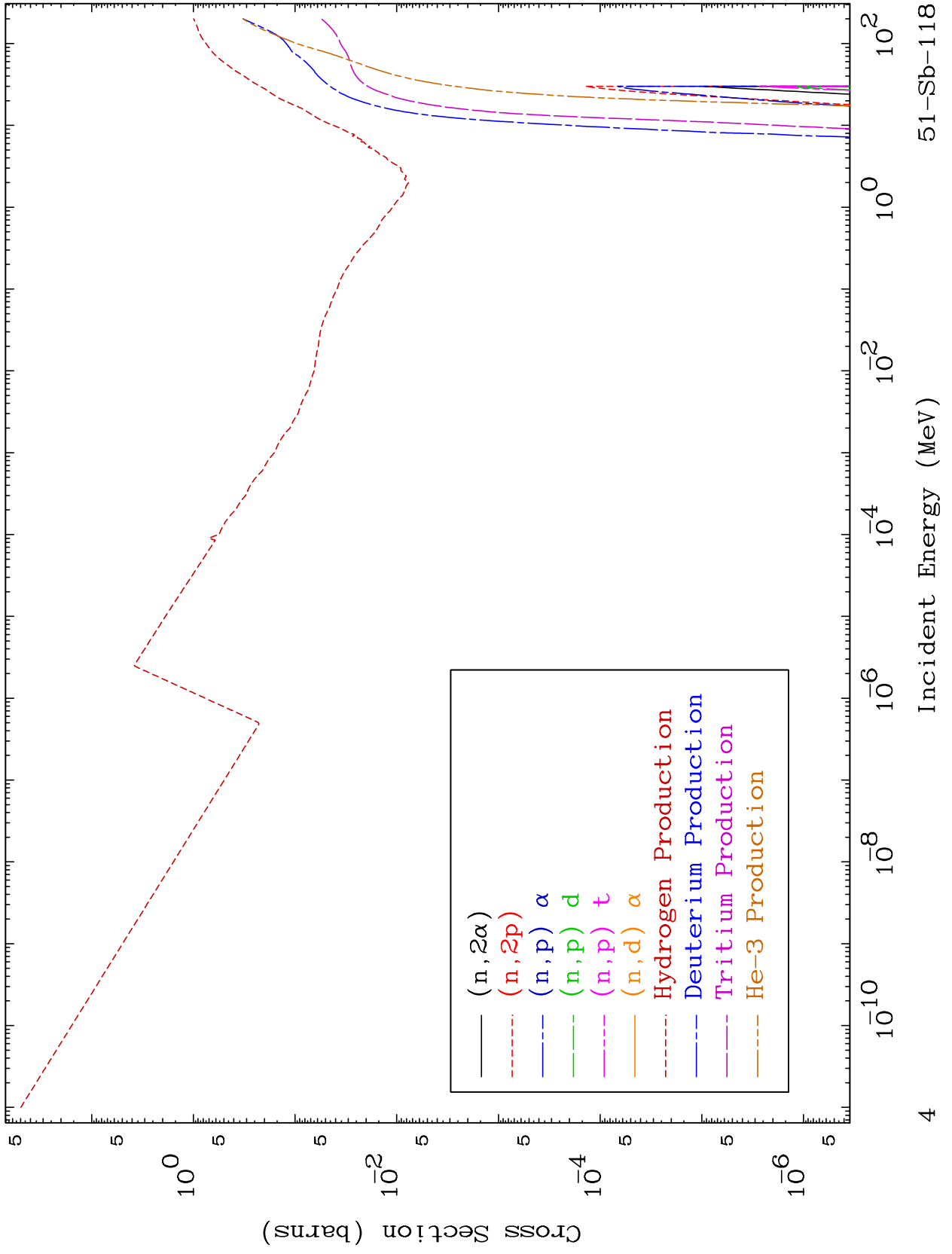
51-Sb-118



MAT 5116

Neutron Absorption  
293 Kelvin Cross Sections

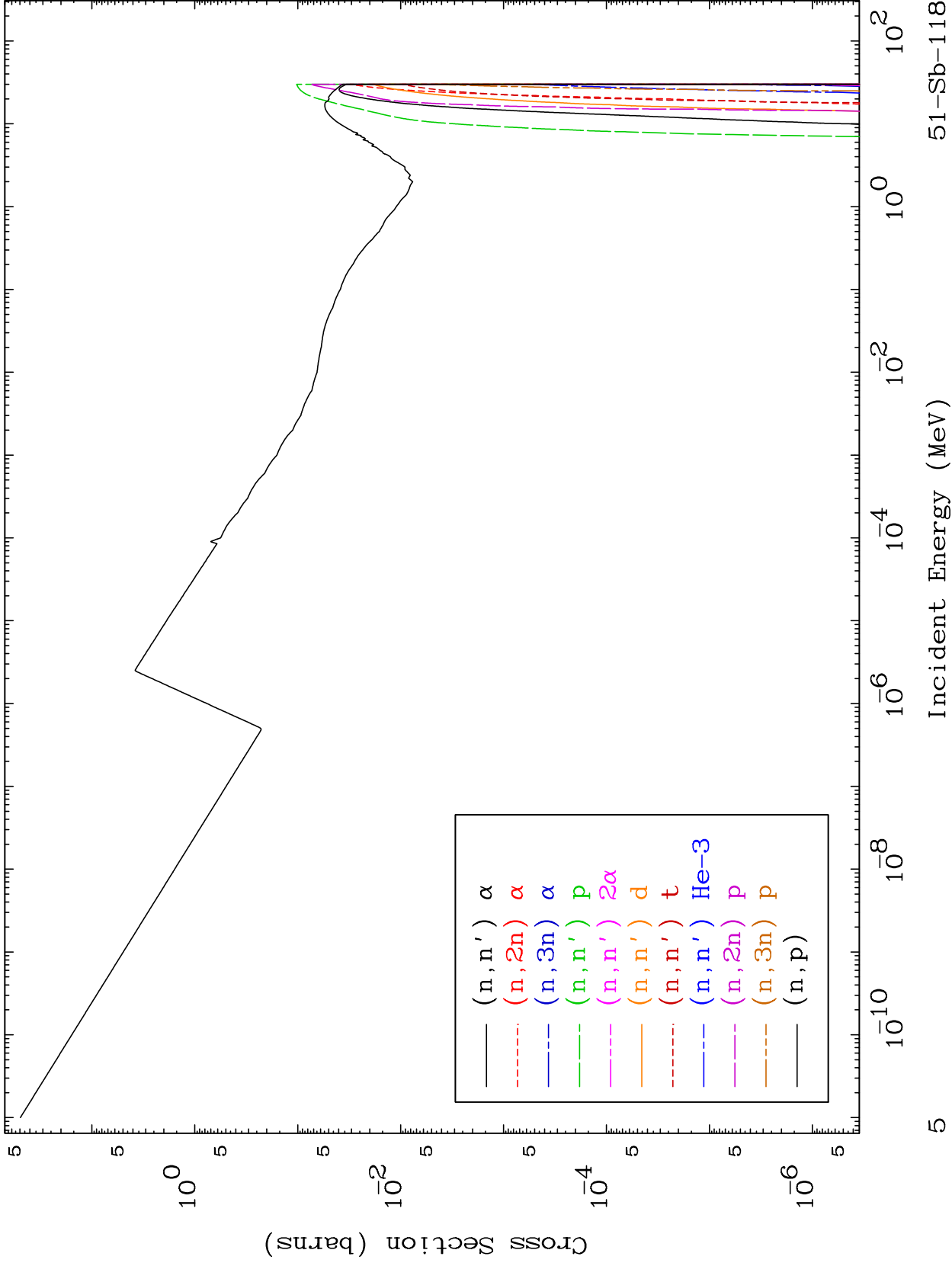
51-Sb-118



MAT 5116

Charged Particle  
293 Kelvin Cross Sections

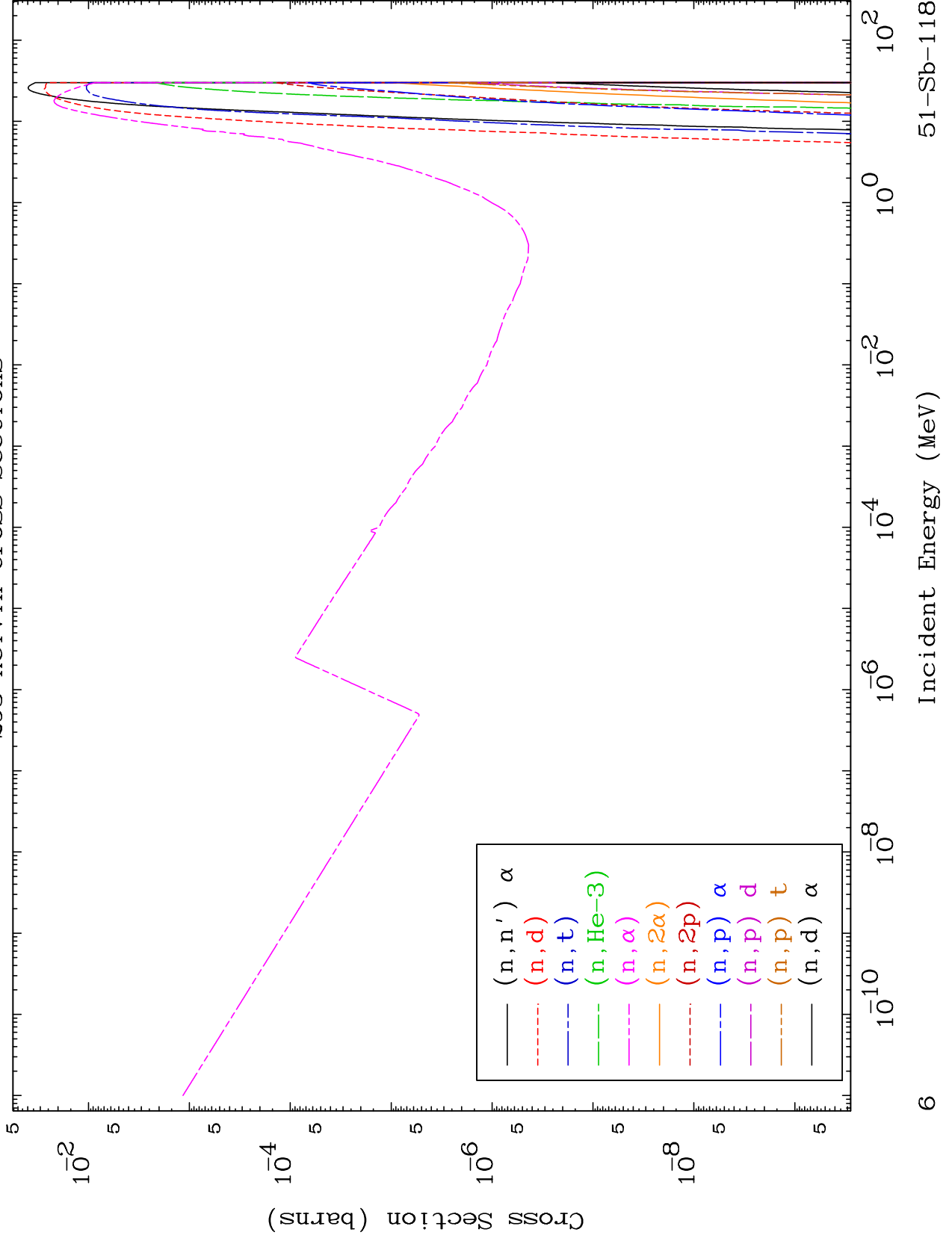
51-Sb-118



MAT 5116

Charged Particle  
293 Kelvin Cross Sections

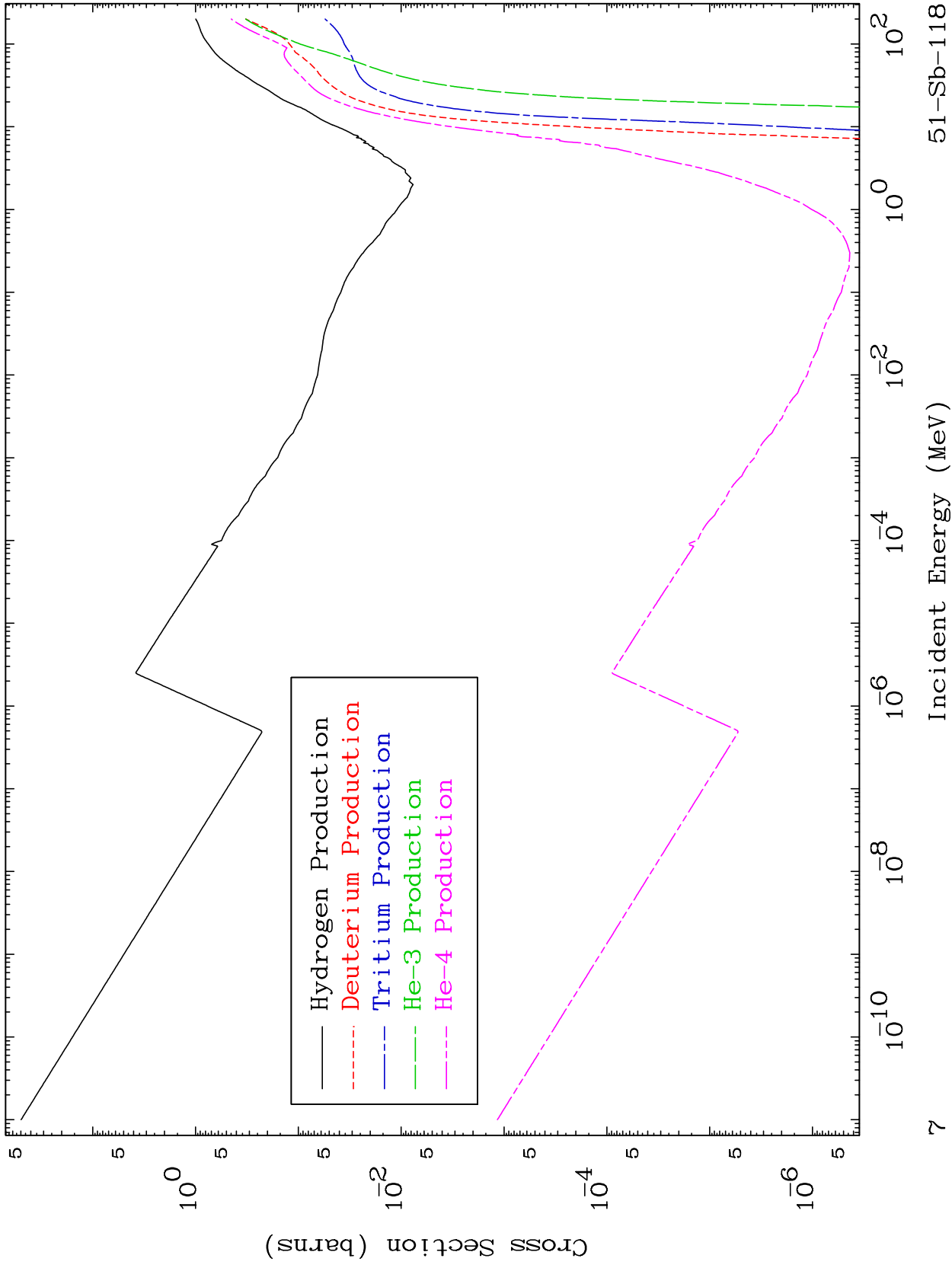
51-Sb-118



MAT 5116

Particle Production  
293 Kelvin Cross Sections

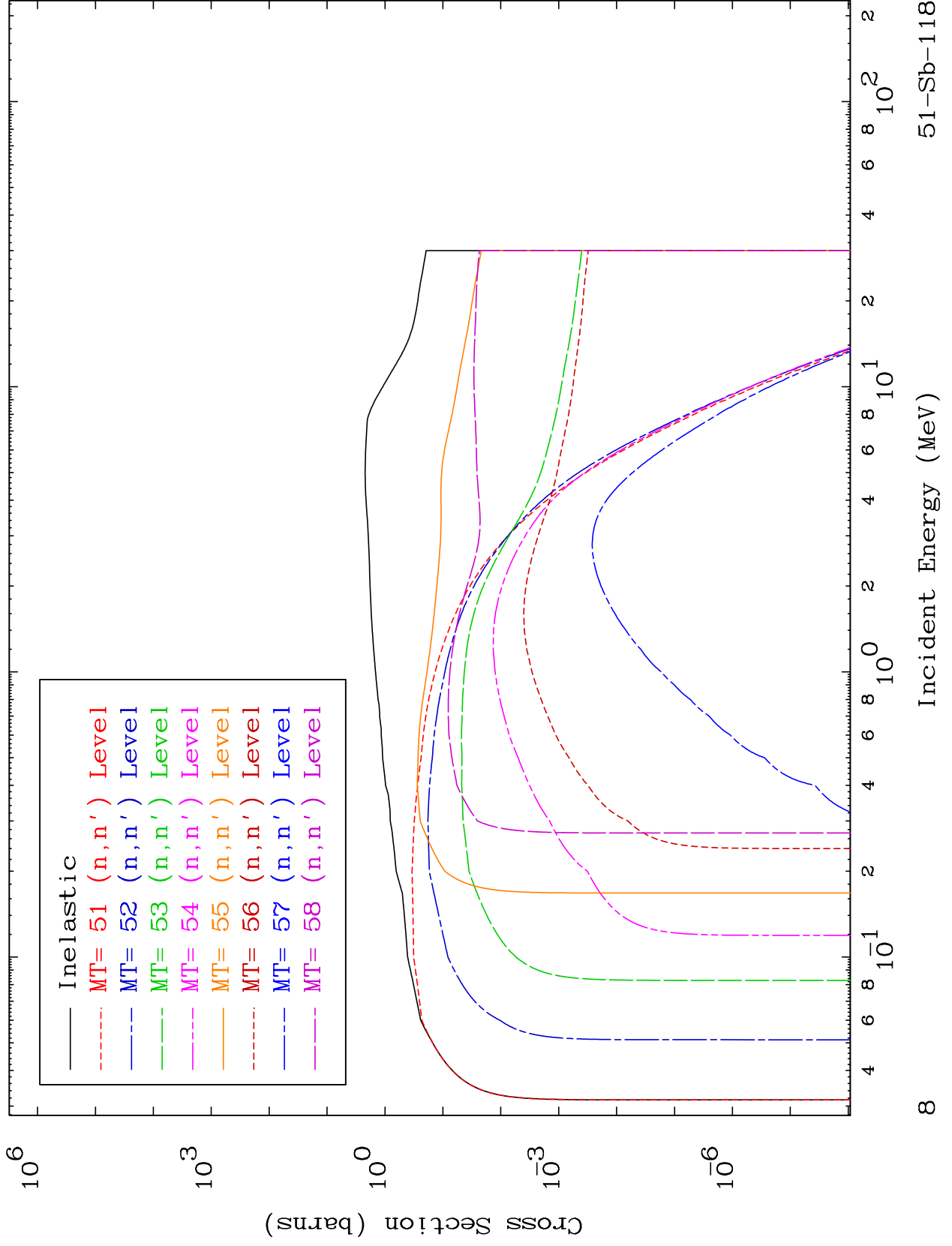
51-Sb-118



MAT 5116

(n,n') Levels  
293 Kelvin Cross Sections

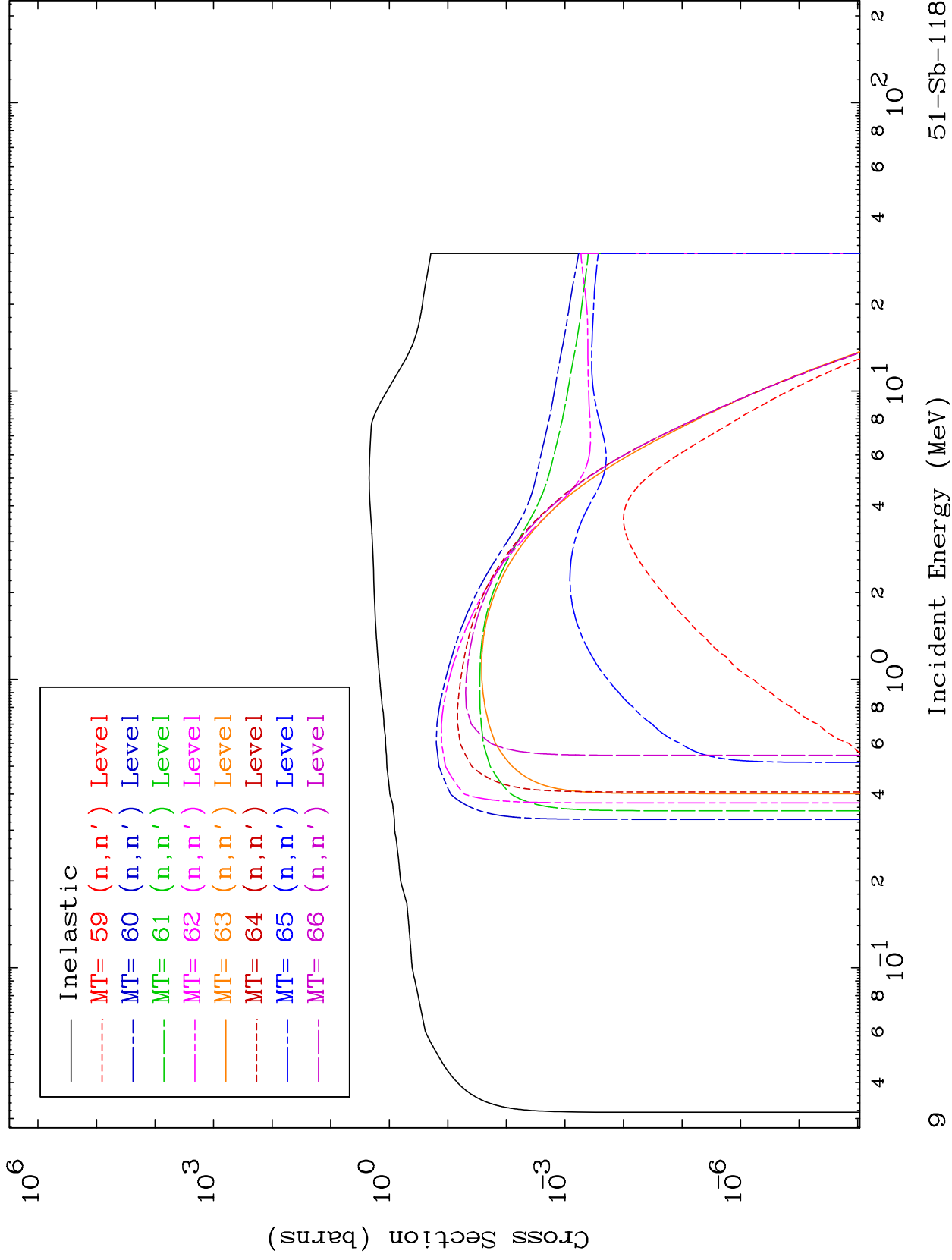
51-Sb-118



MAT 5116

(n,n') Levels  
293 Kelvin Cross Sections

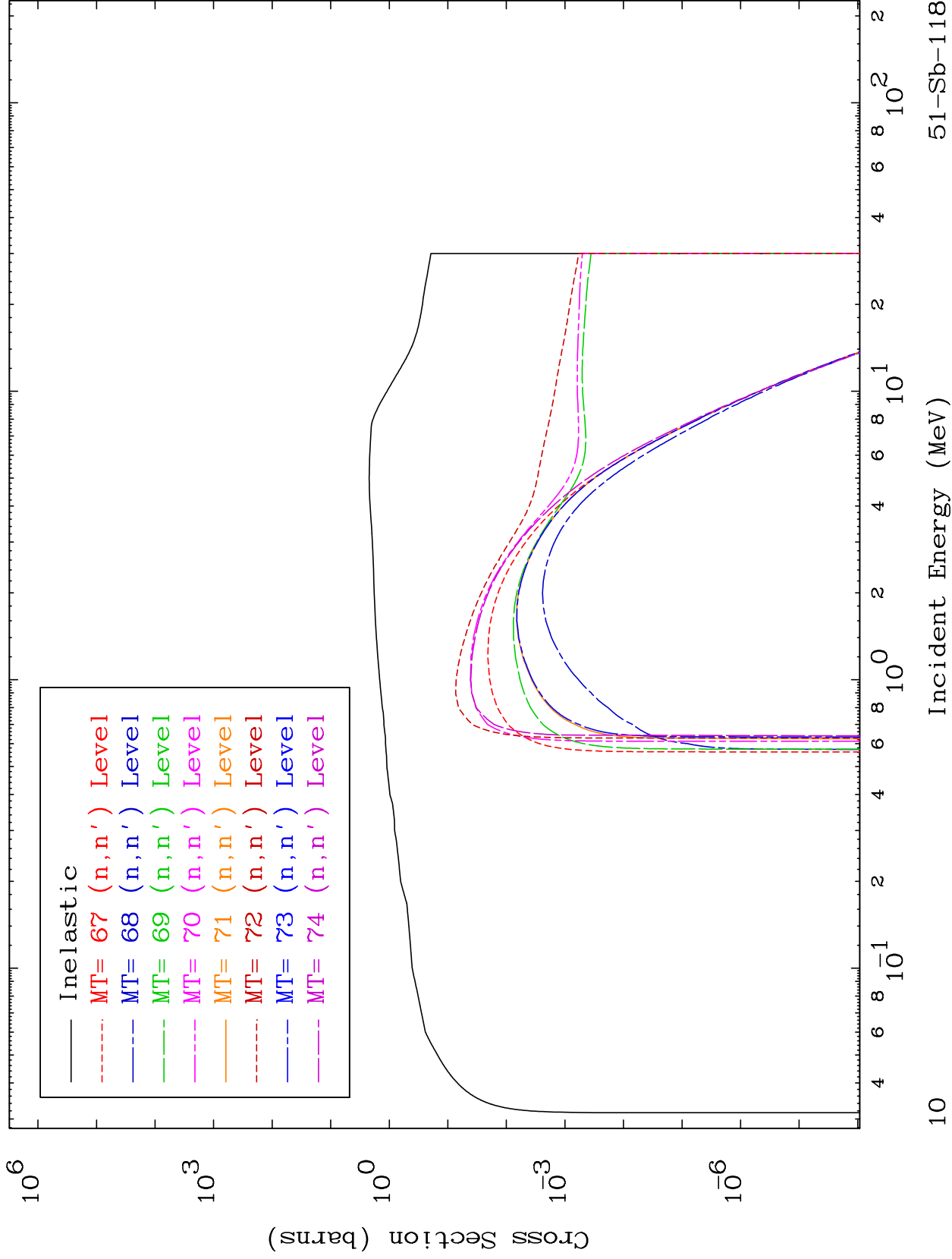
51-Sb-118



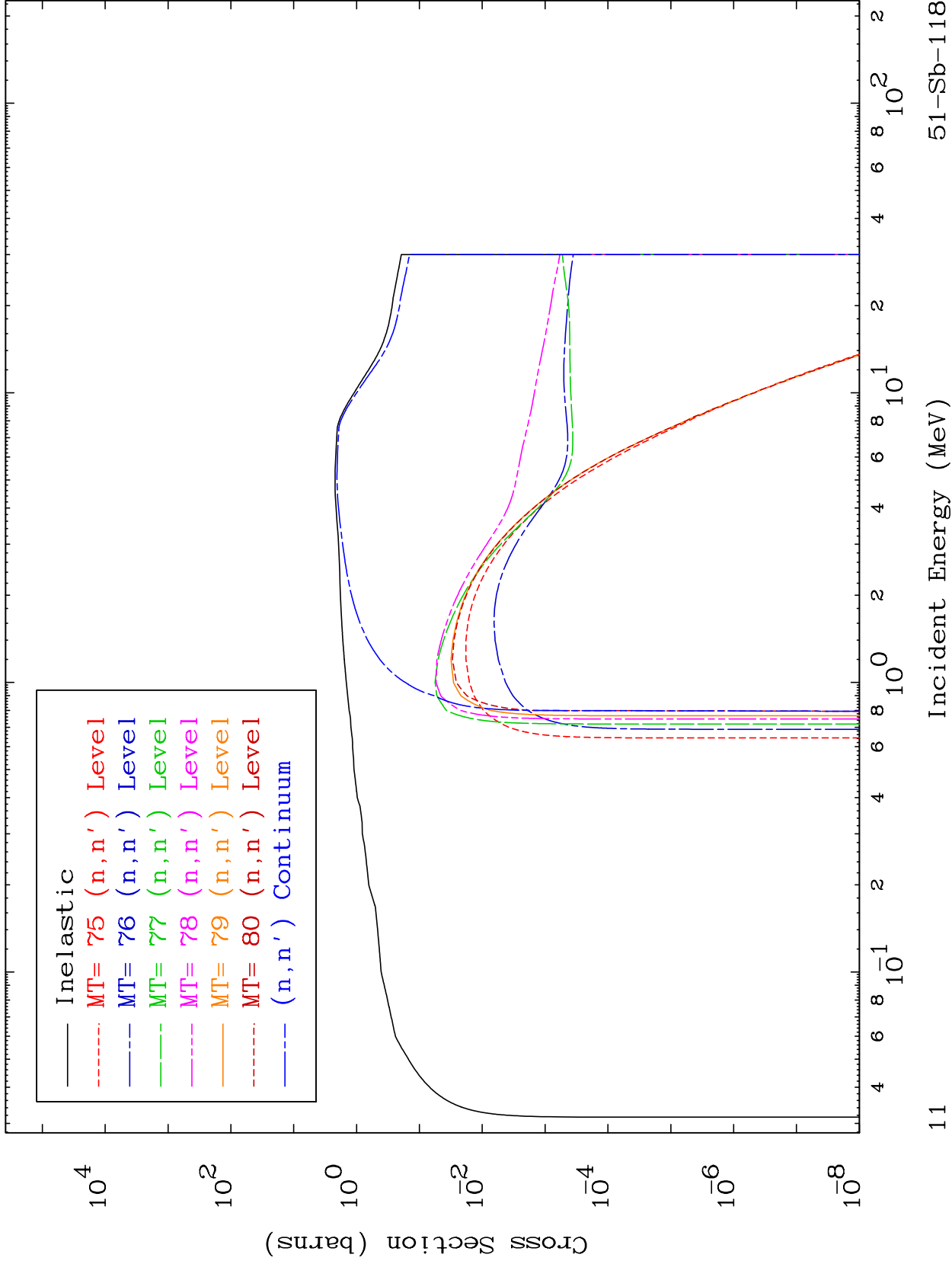
MAT 5116

(n,n') Levels  
293 Kelvin Cross Sections

51-Sb-118



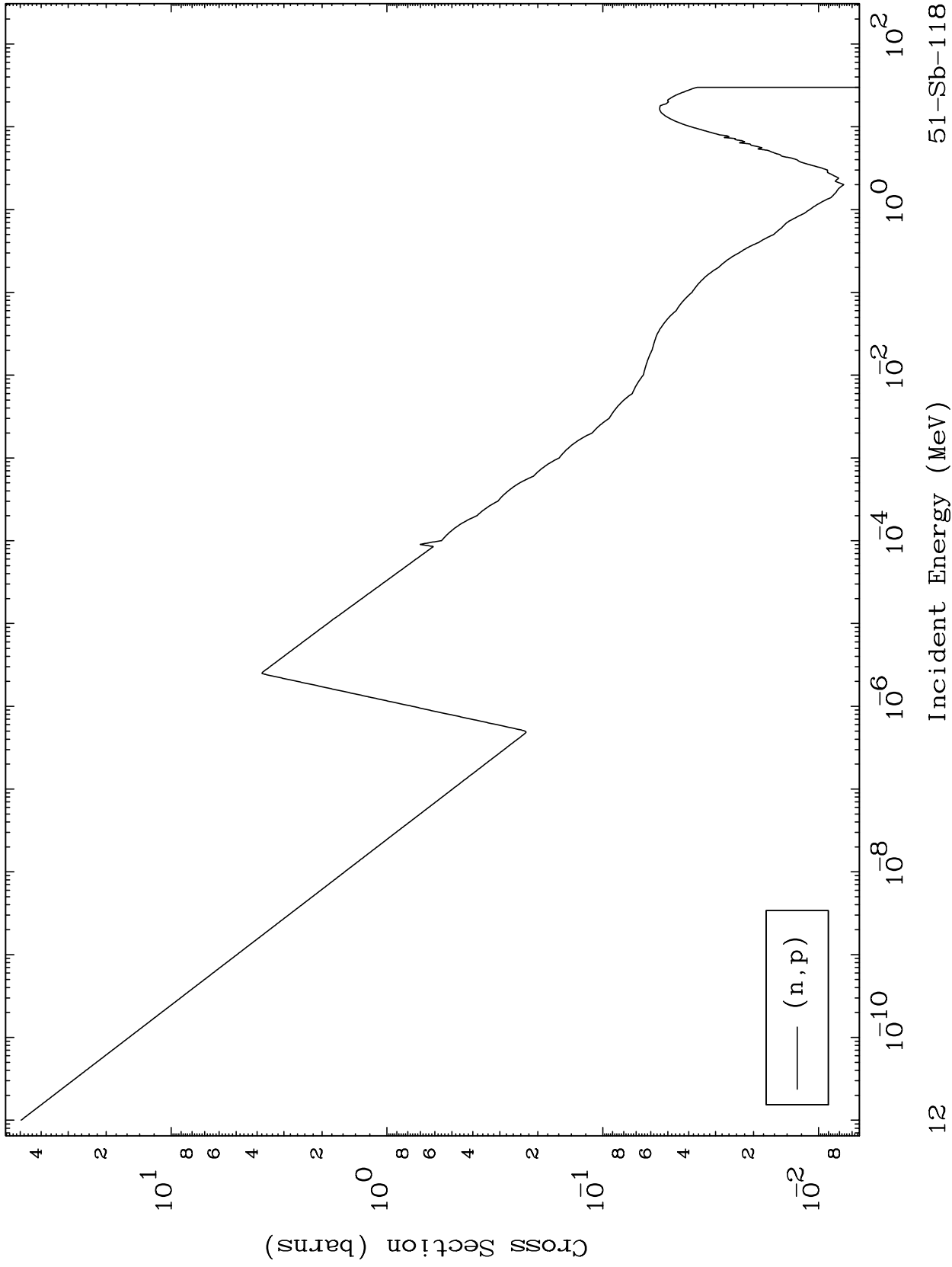
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MAT 5116

(n,p) Levels  
293 Kelvin Cross Sections

51-Sb-118



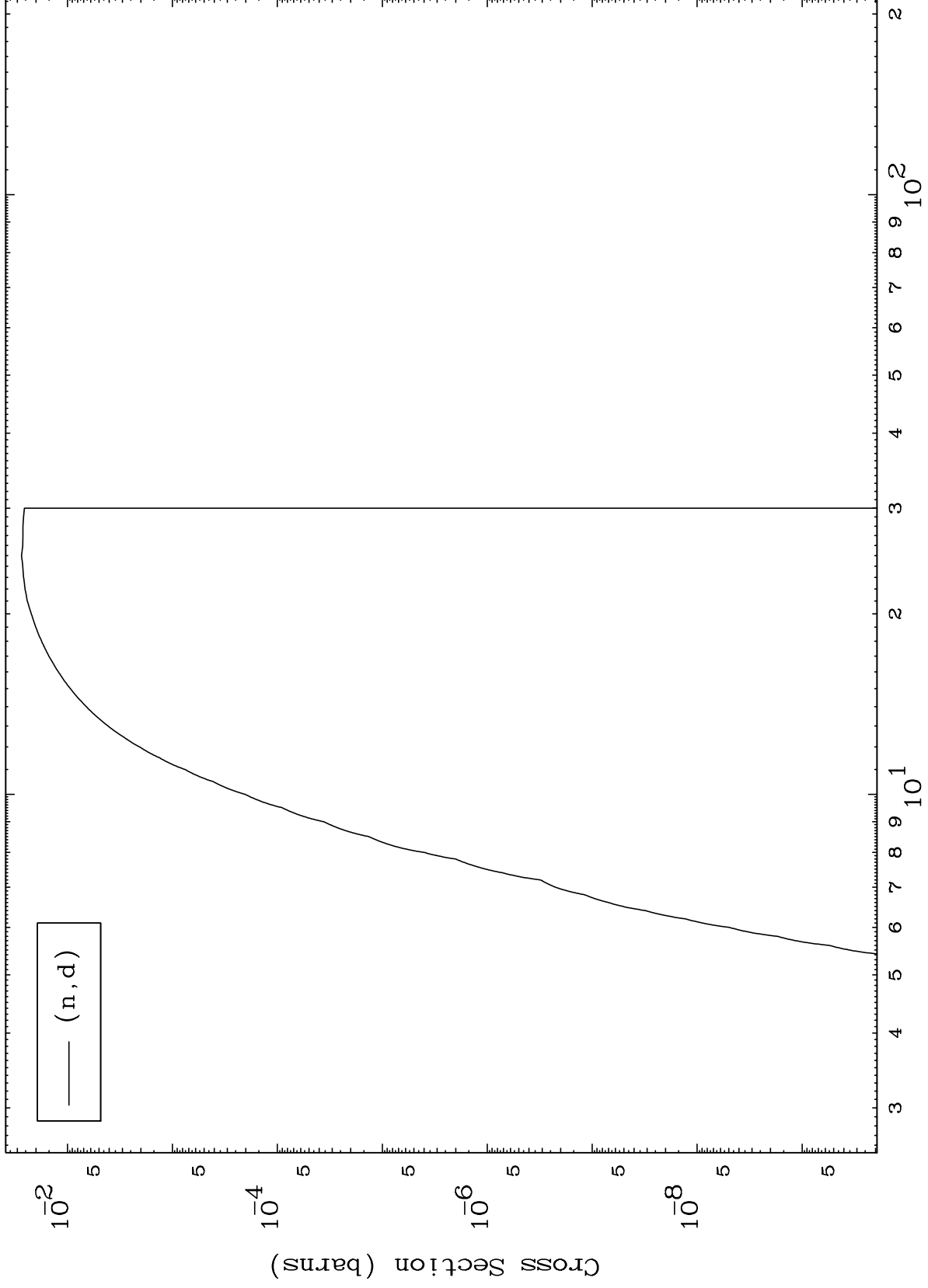
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51-Sb-118

MAT 51116

(n,d) Levels  
293 Kelvin Cross Sections

51-Sb-118



13

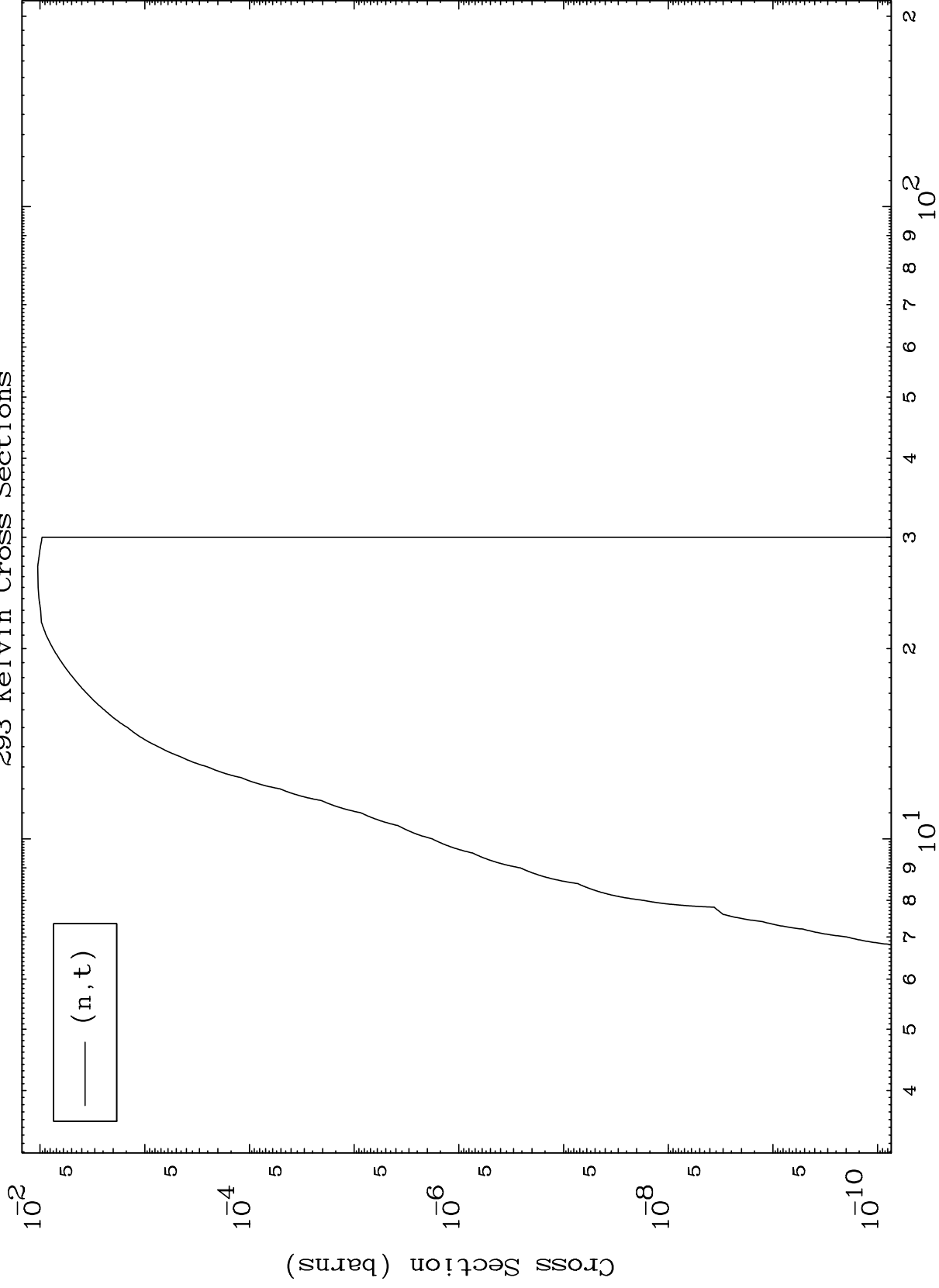
Incident Energy (MeV)

51-Sb-118

MAT 51116

(n,t) Levels  
293 Kelvin Cross Sections

51-Sb-118



14

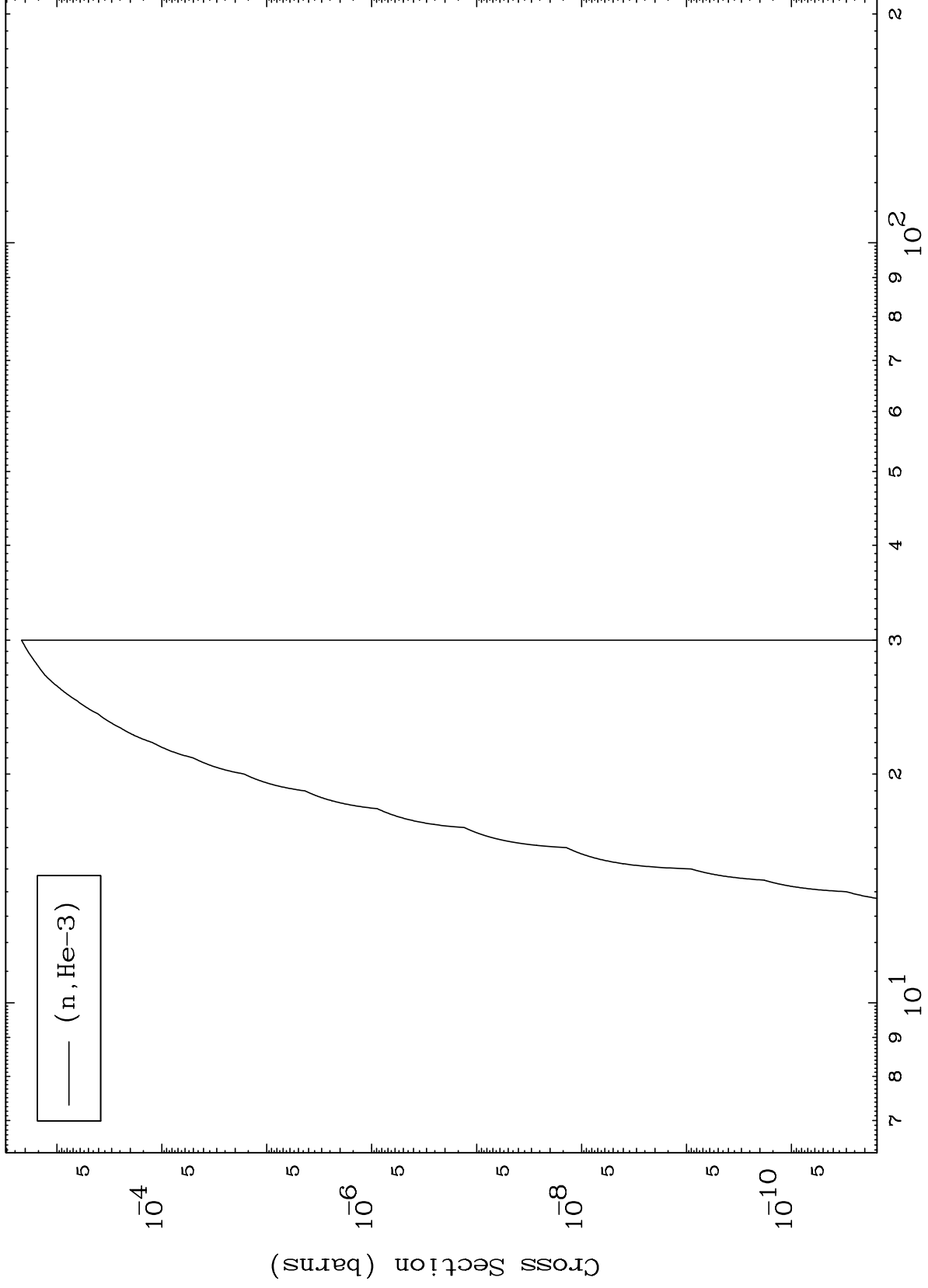
Incident Energy (MeV)

51-Sb-118

MAT 51116

(n,He3) Levels  
293 Kelvin Cross Sections

51-Sb-118



15

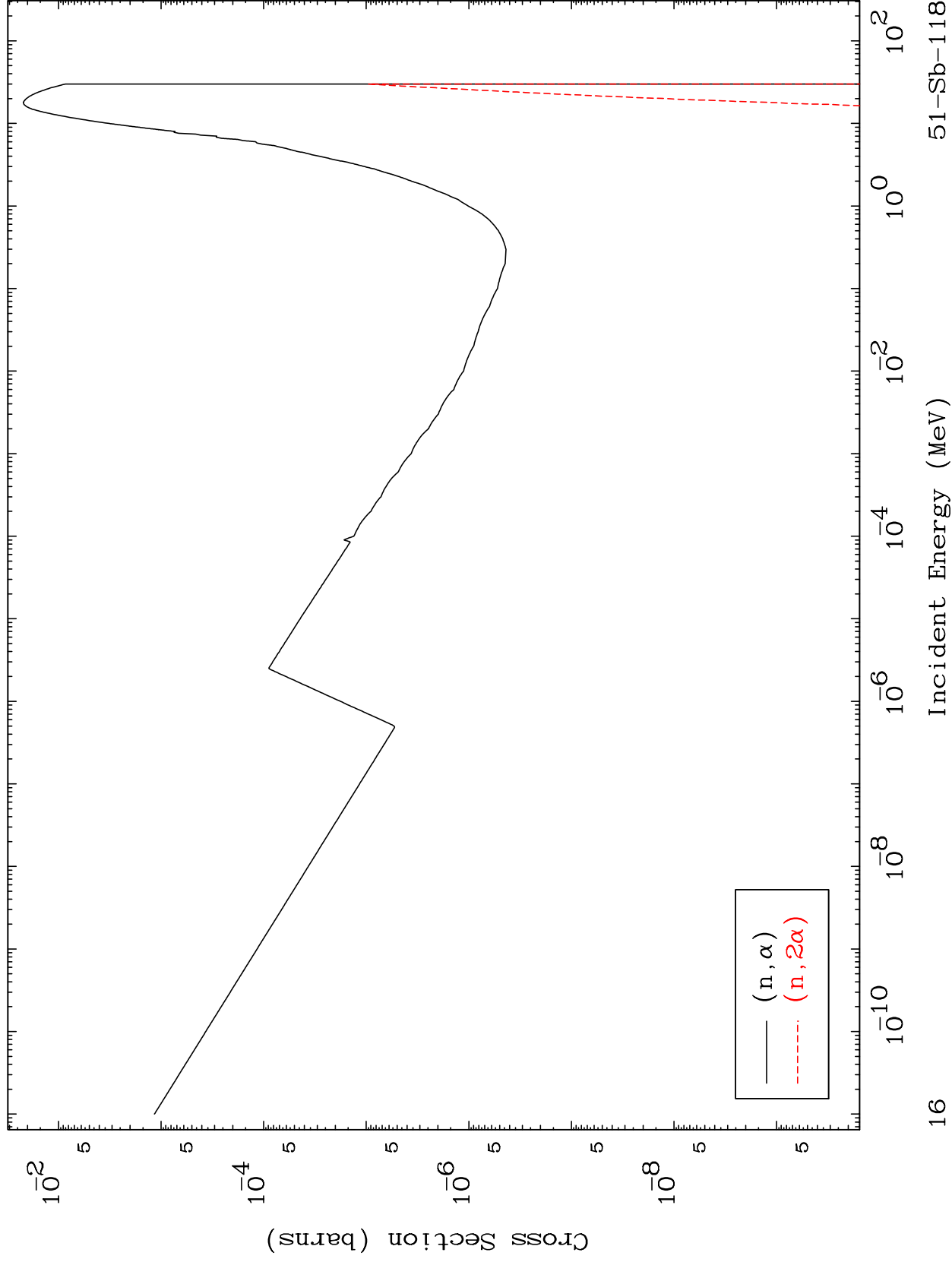
Incident Energy (MeV)

51-Sb-118

MAT 5116

(n,α) Levels  
293 Kelvin Cross Sections

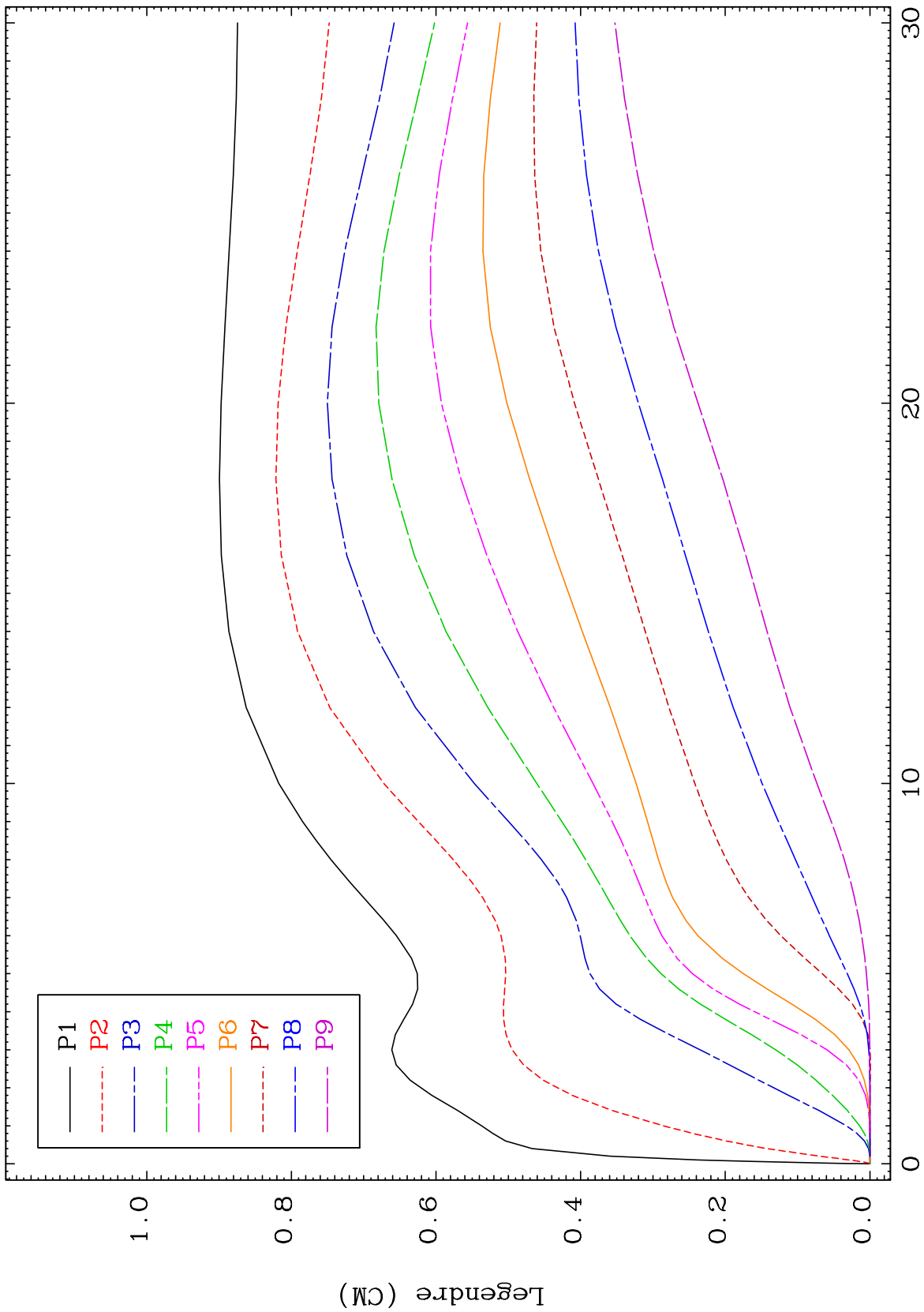
51-Sb-118



MAT 5116

Elastic Legendre Coefficients

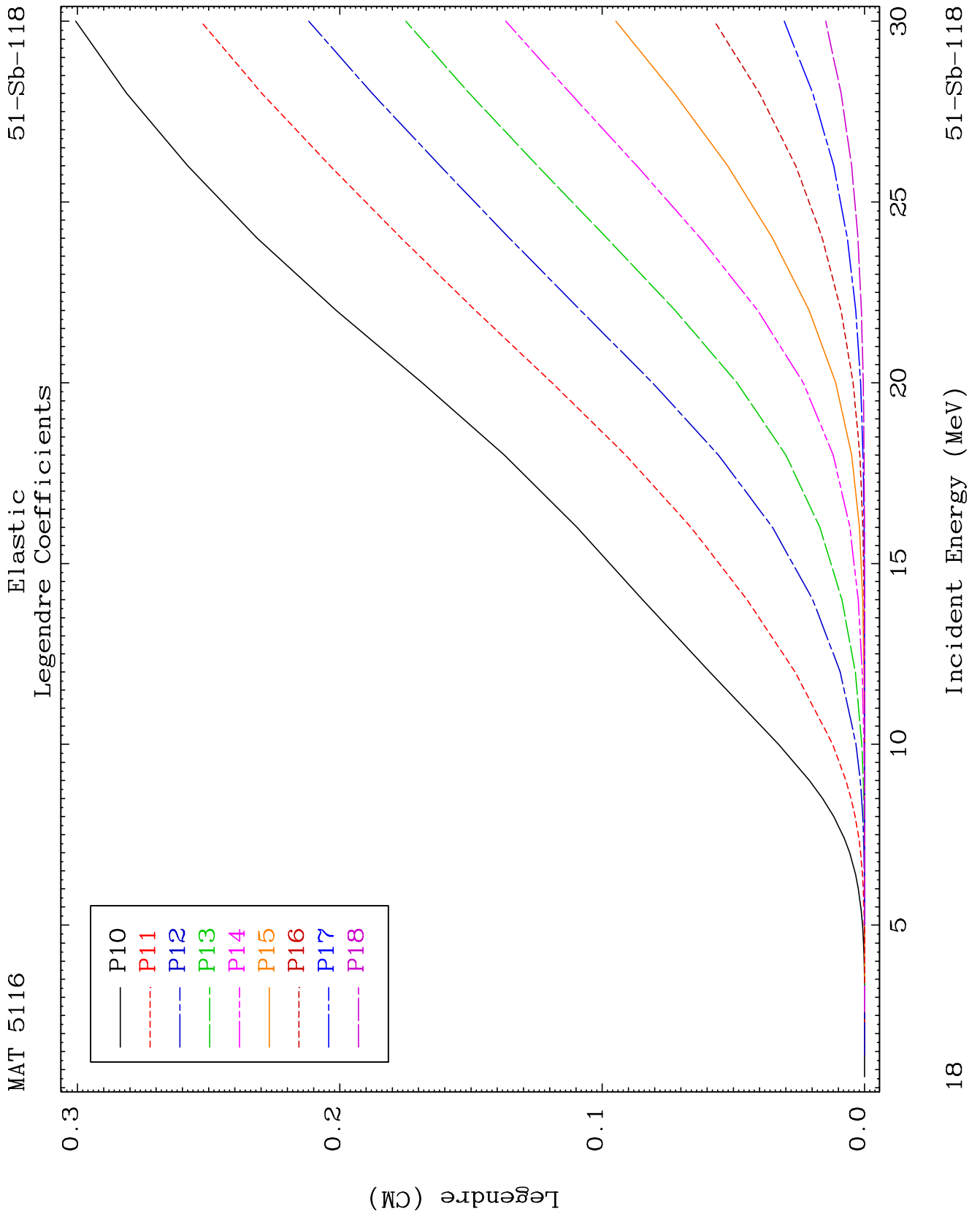
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17

Incident Energy (MeV)

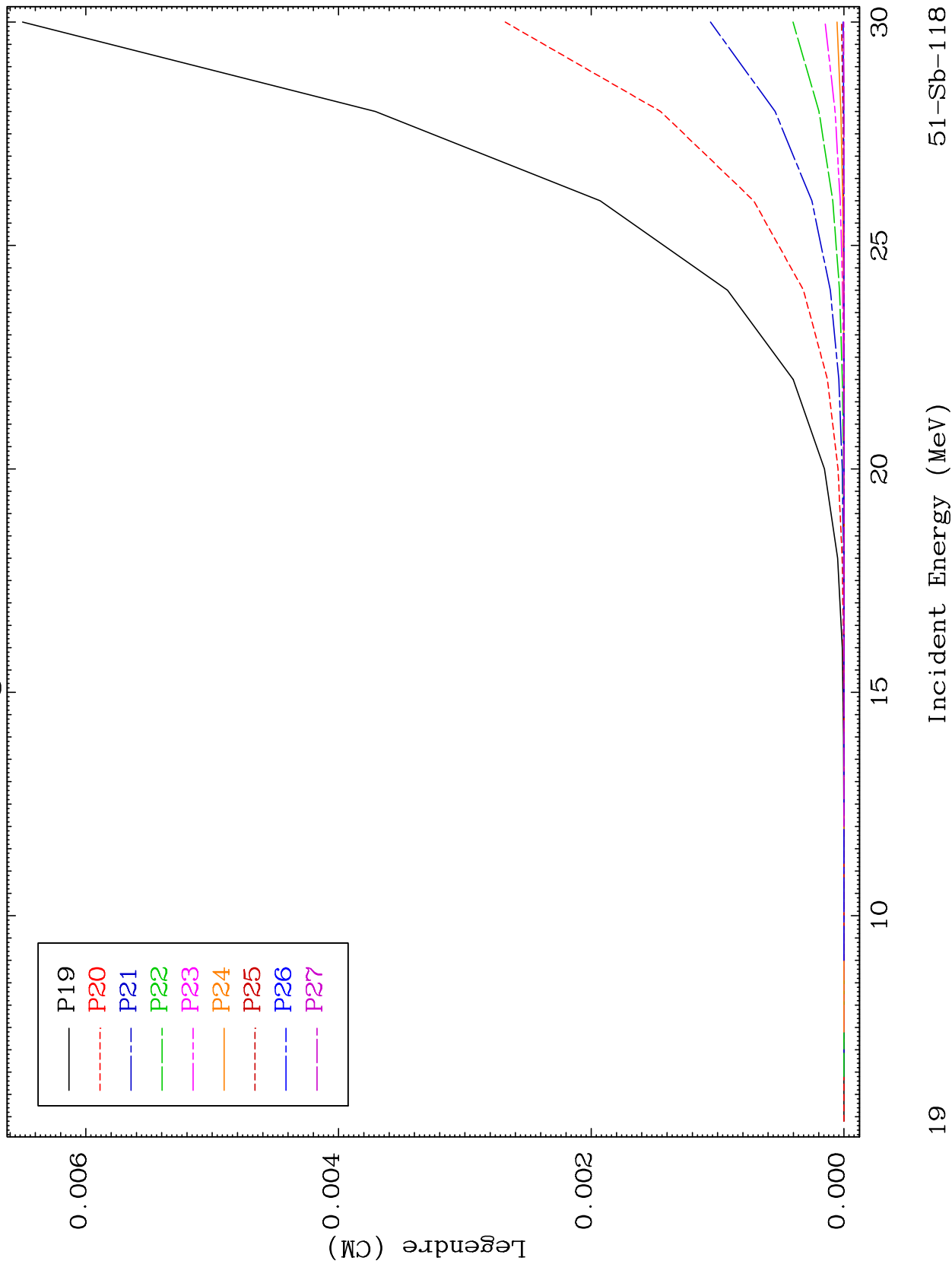
51-Sb-118



MAT 5116

### Elastic Legendre Coefficients

51-Sb-118



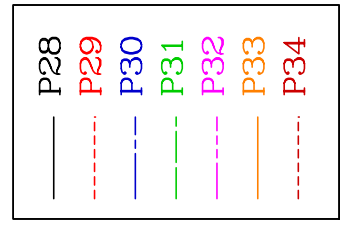
19

51-Sb-118

MAT 5116

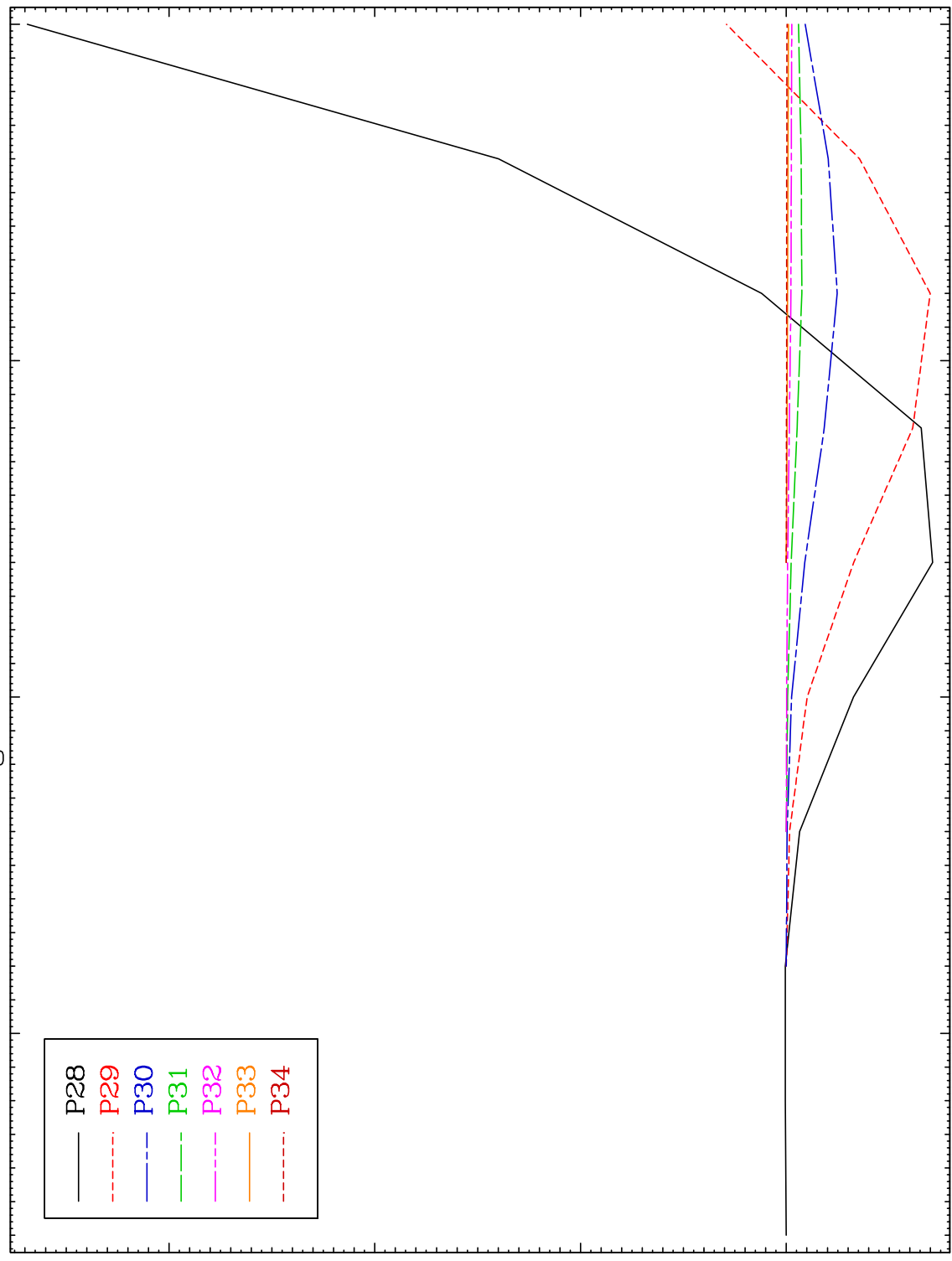
Elastic Legendre Coefficients

51-Sb-118



$\times 10^{-7}$

Legendre (CM)



15

20

25

30

20

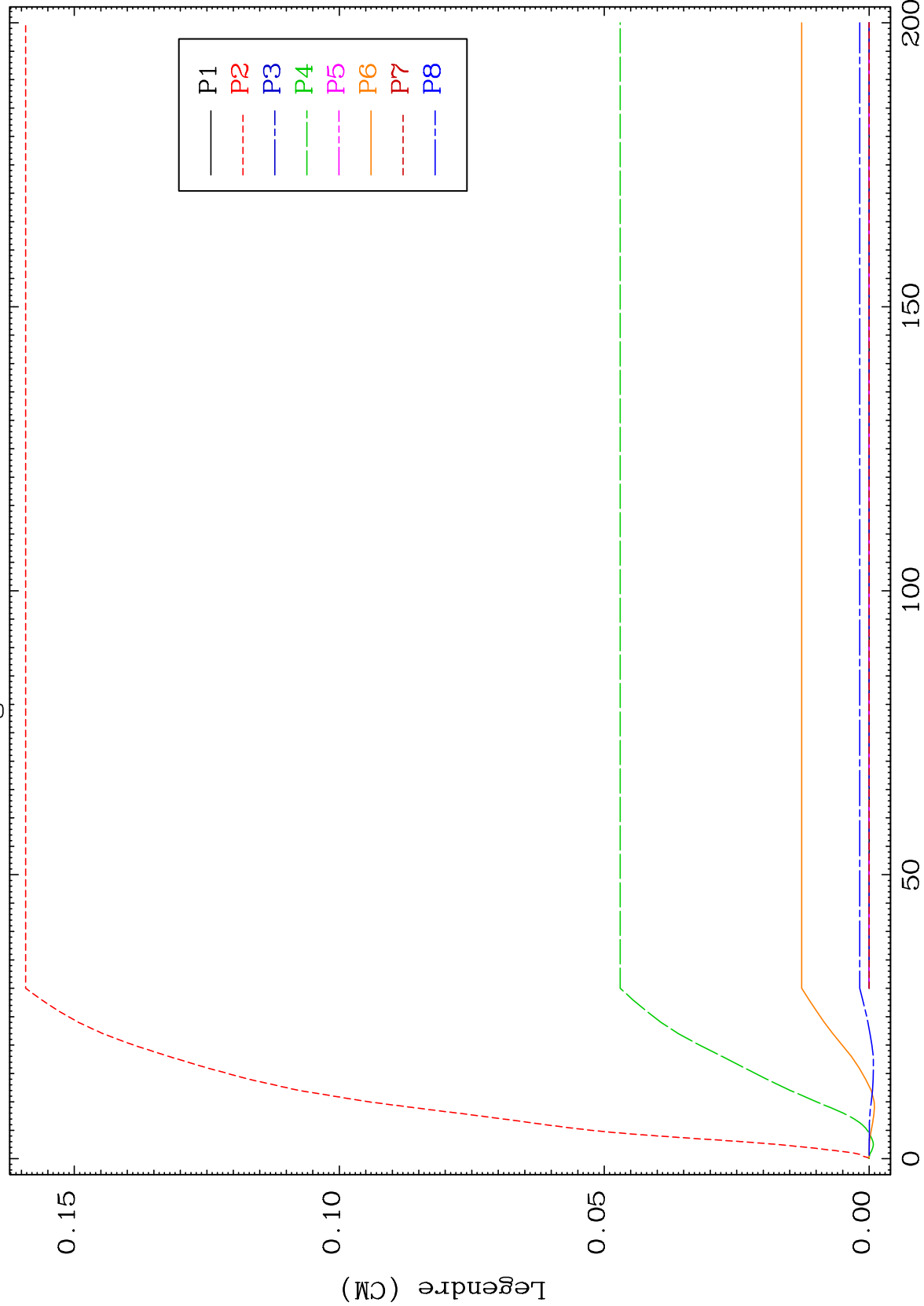
Incident Energy (MeV)

51-Sb-118

MAT 51116

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

51-Sb-118

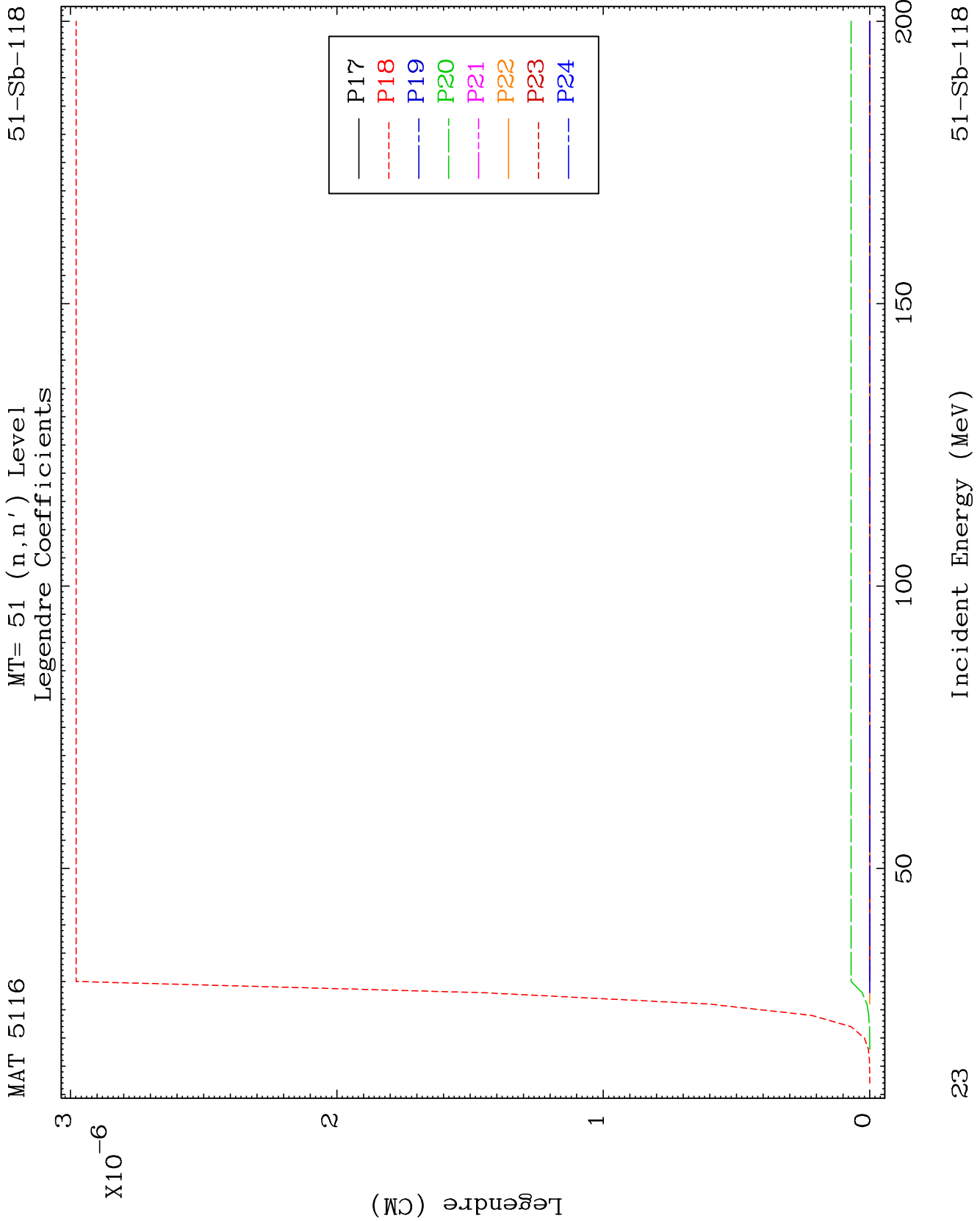


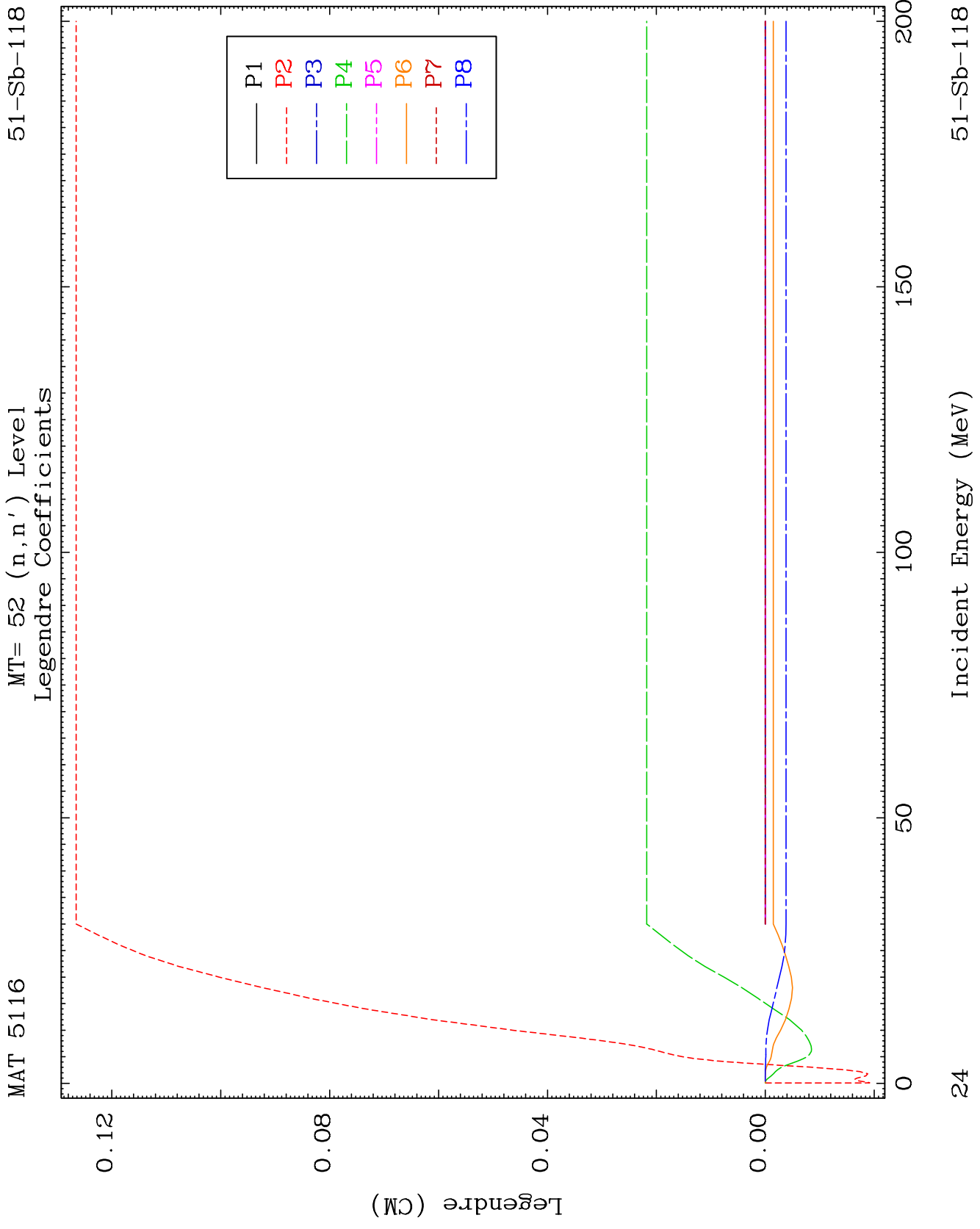
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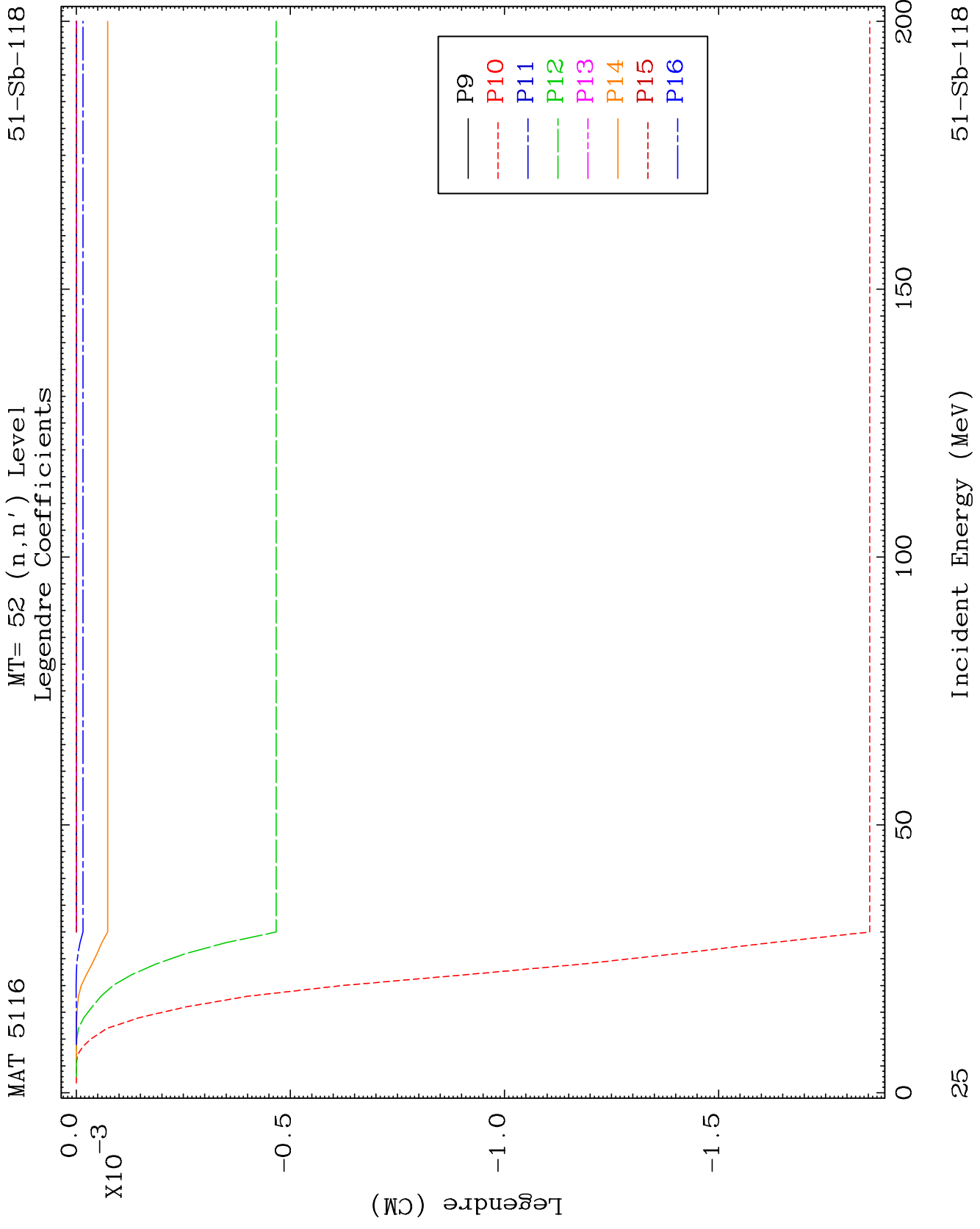
Incident Energy (MeV)

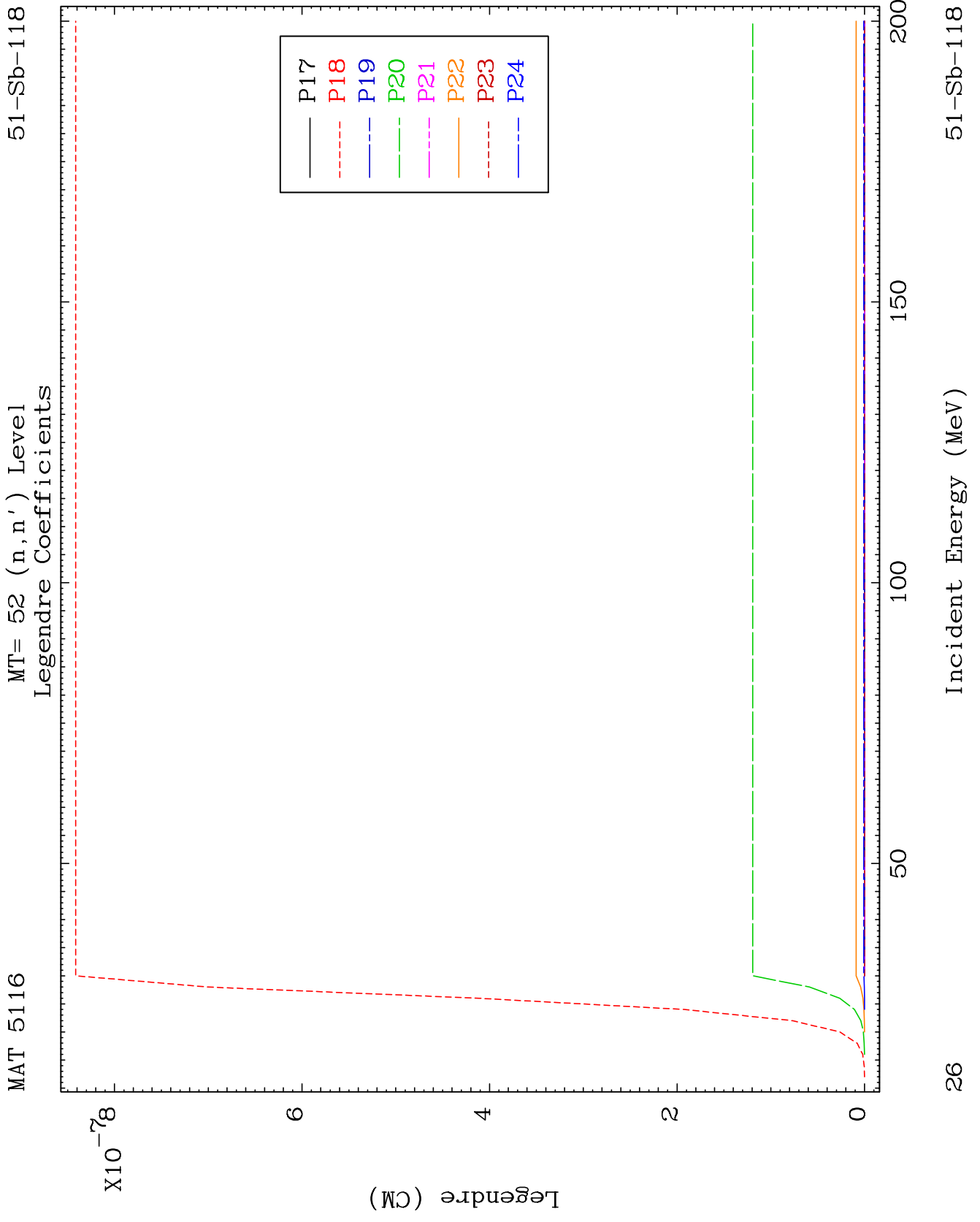
51-Sb-118







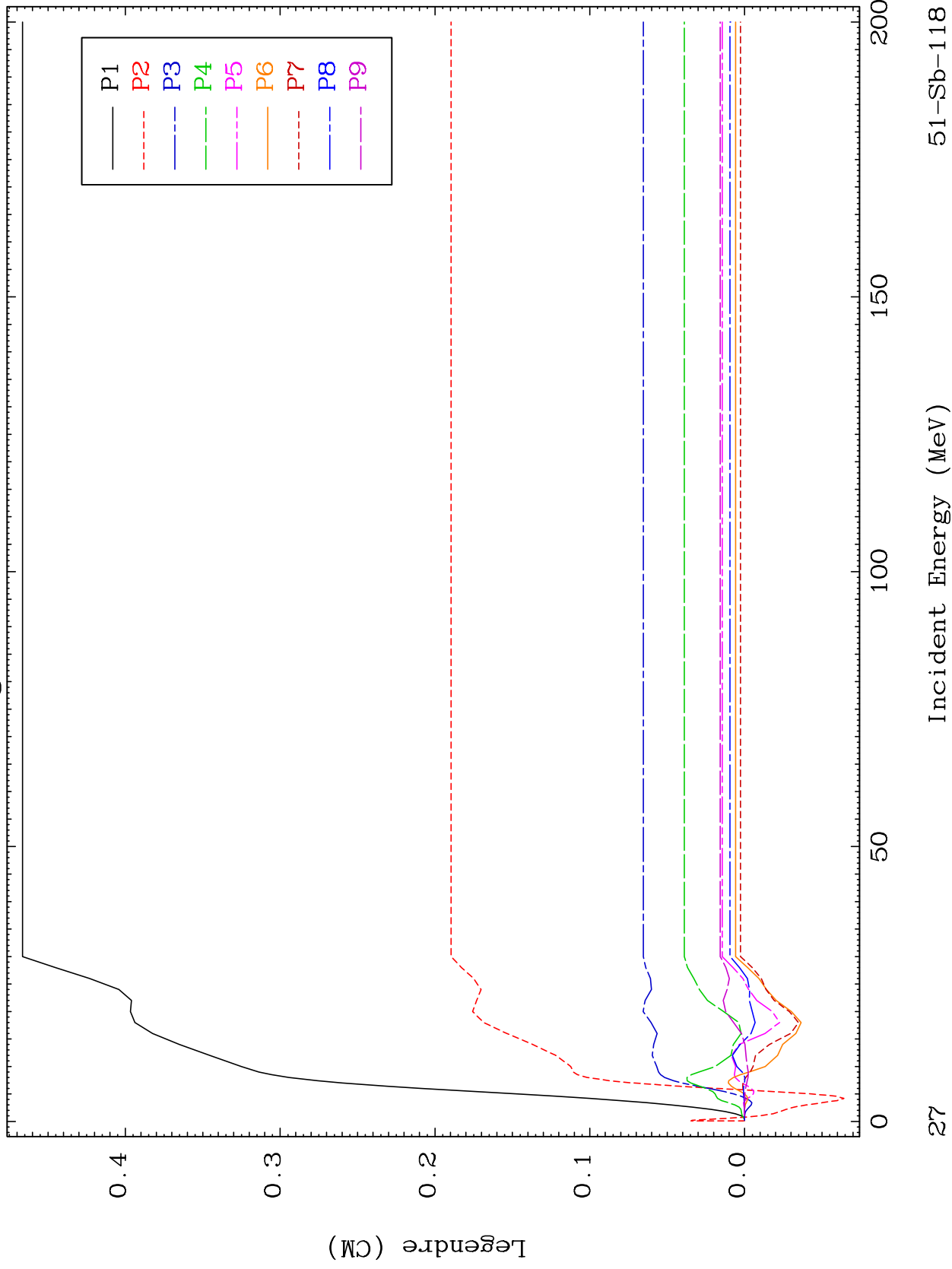




MAT 5116

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

51-Sb-118



51-Sb-118

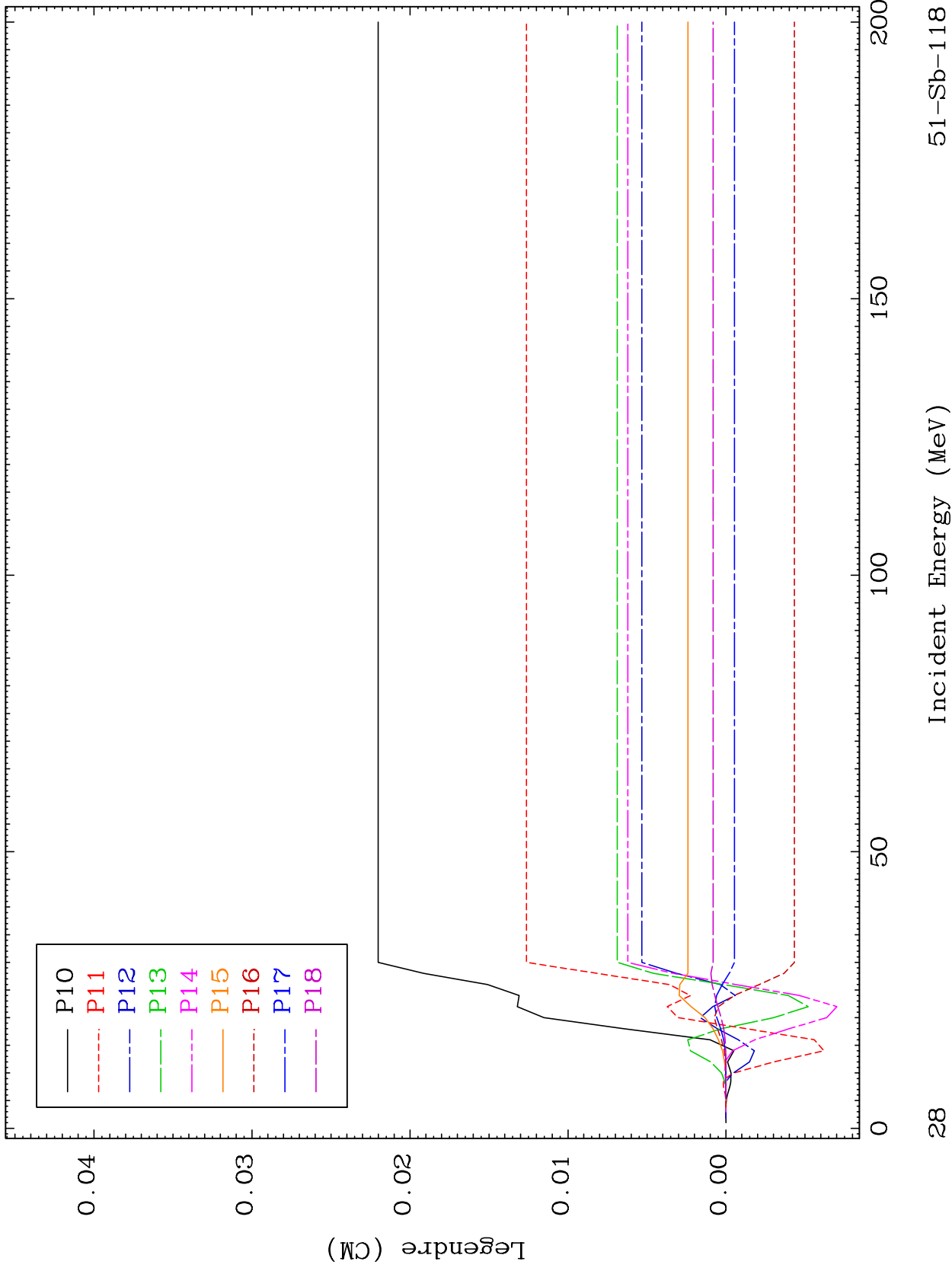
Incident Energy (MeV)

27

MAT 51116

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

51-Sb-118



28

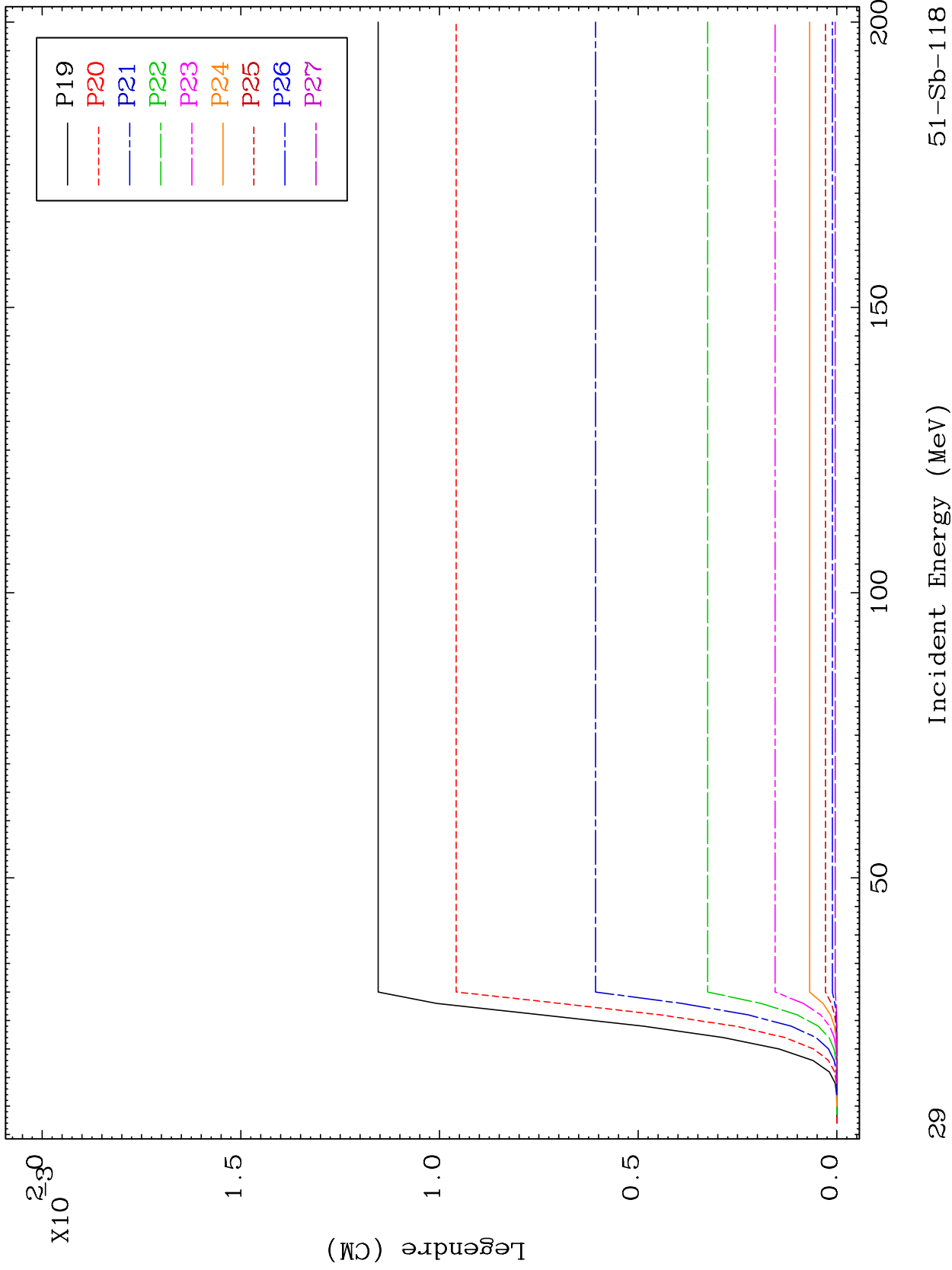
Incident Energy (MeV)

51-Sb-118

MAT 51116

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

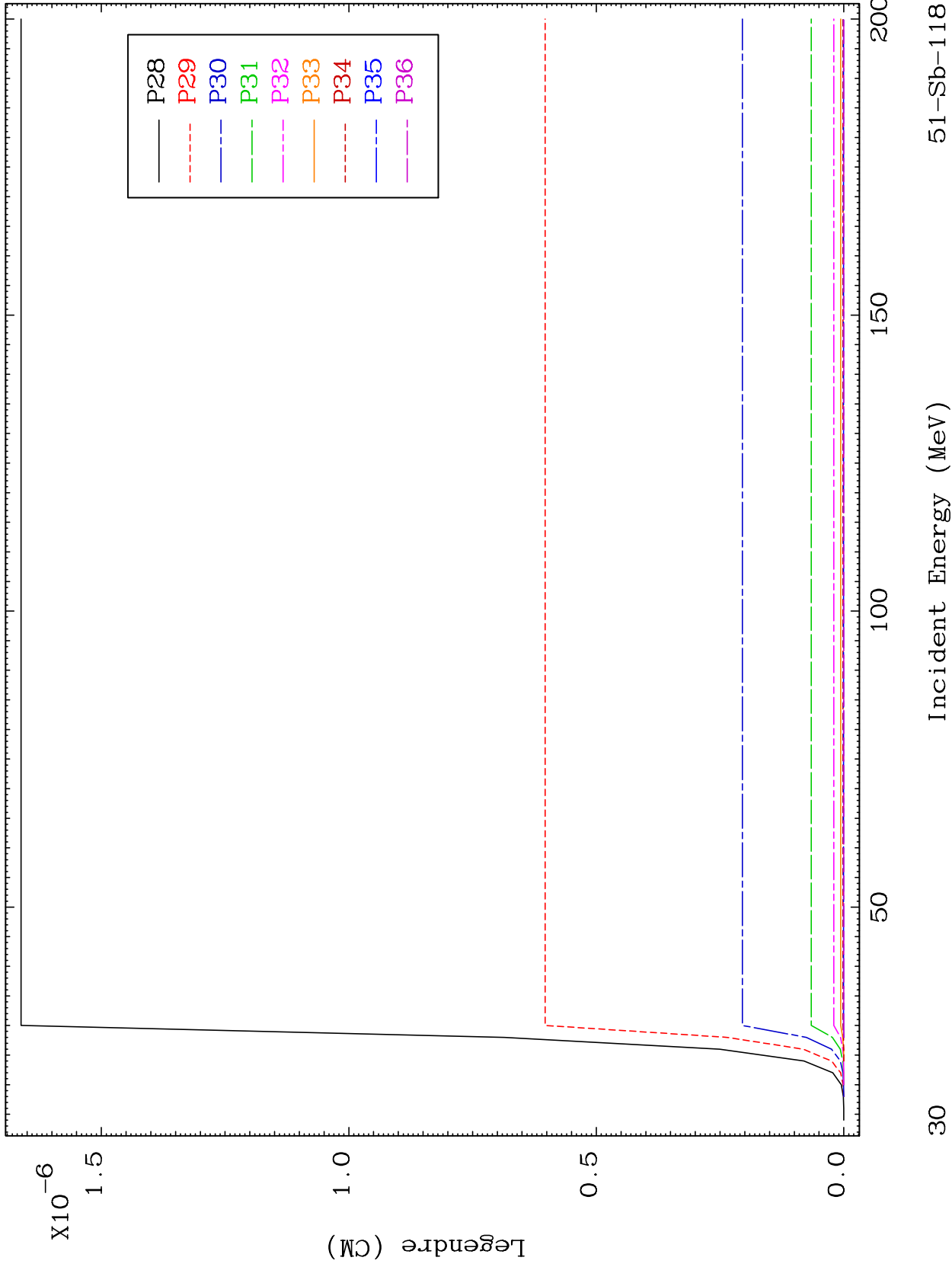
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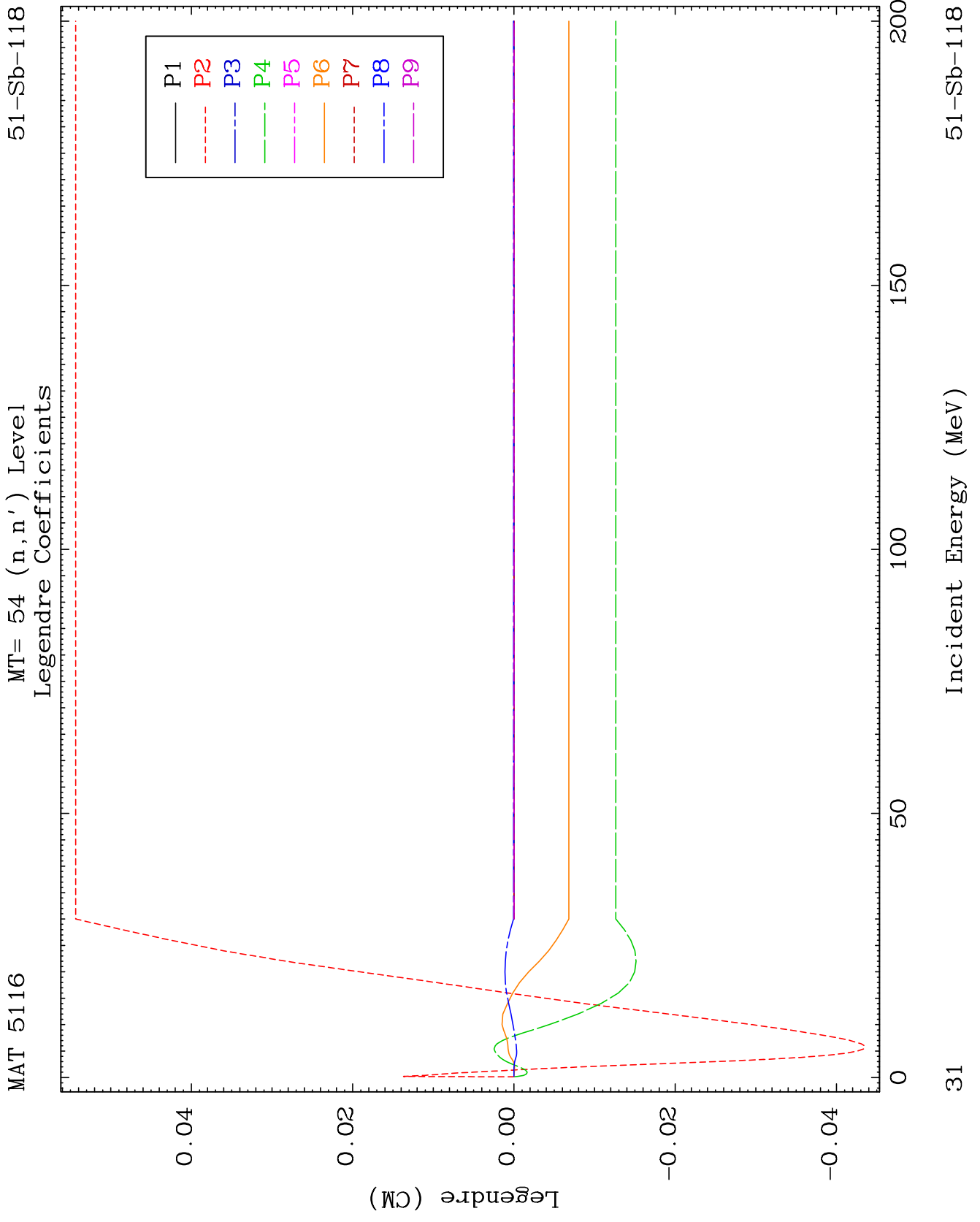


MAT 51116

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

51-Sb-118

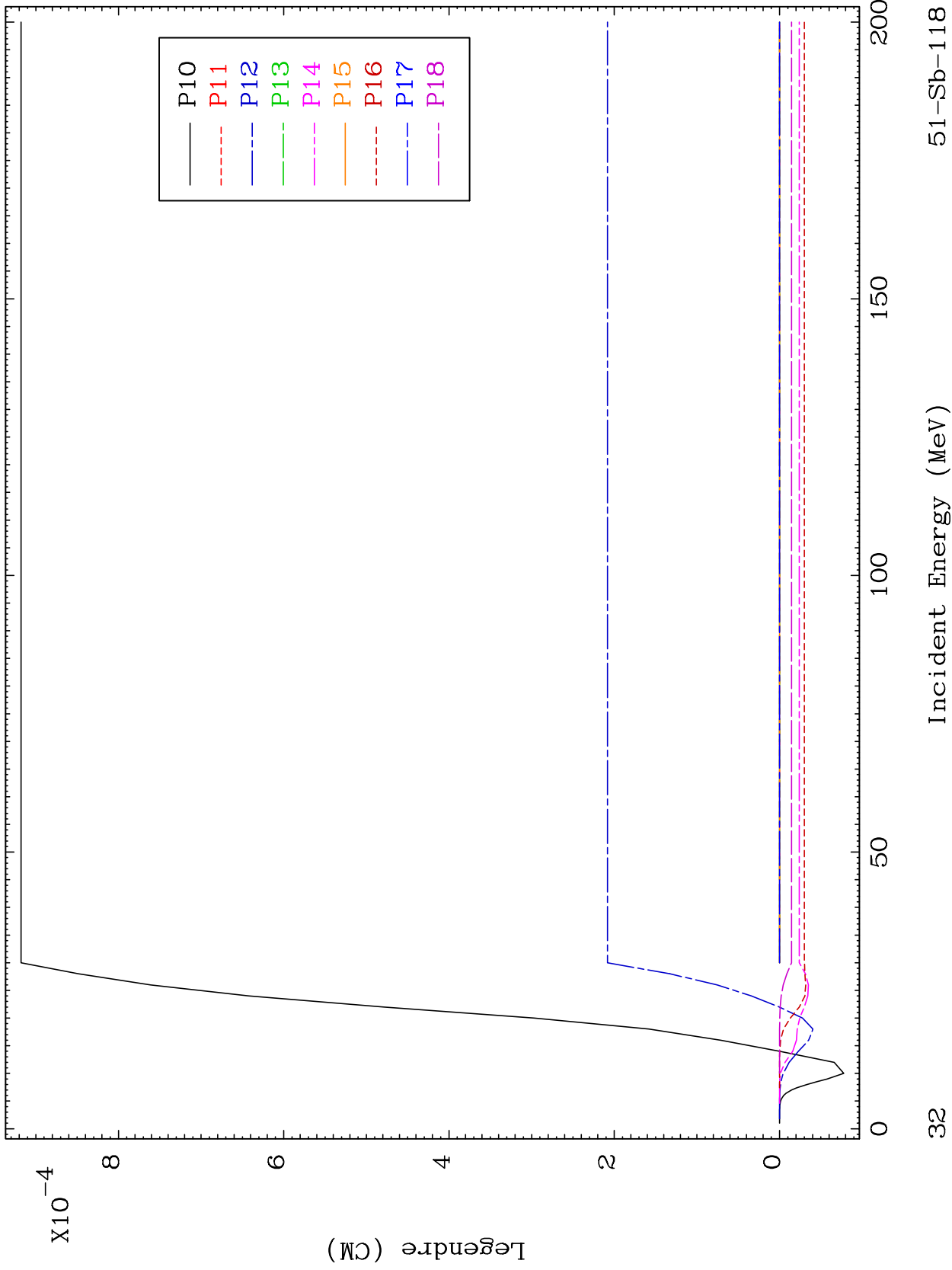




MAT 51116

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

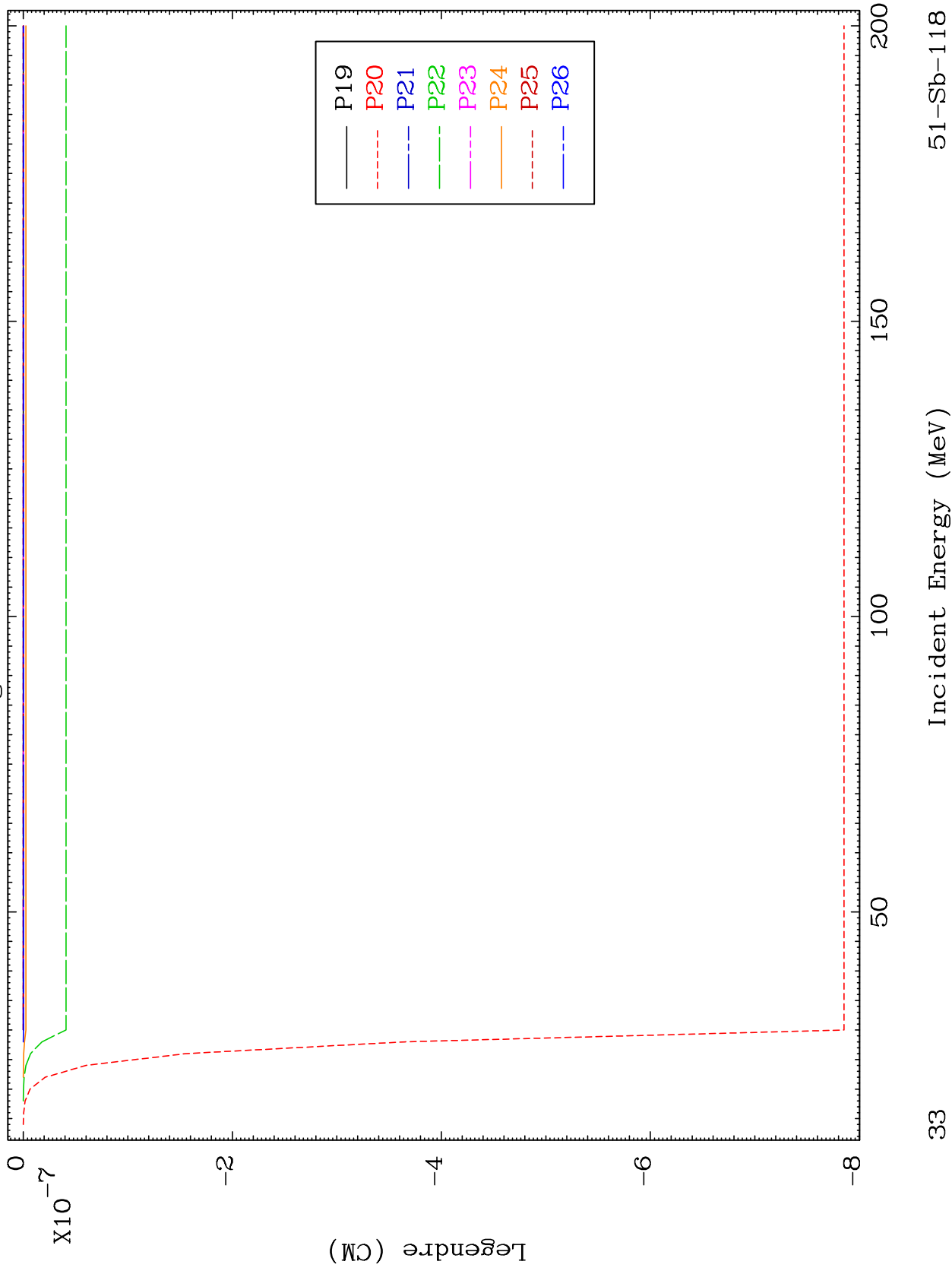
51-Sb-118



MAT 5116

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

51-Sb-118



33

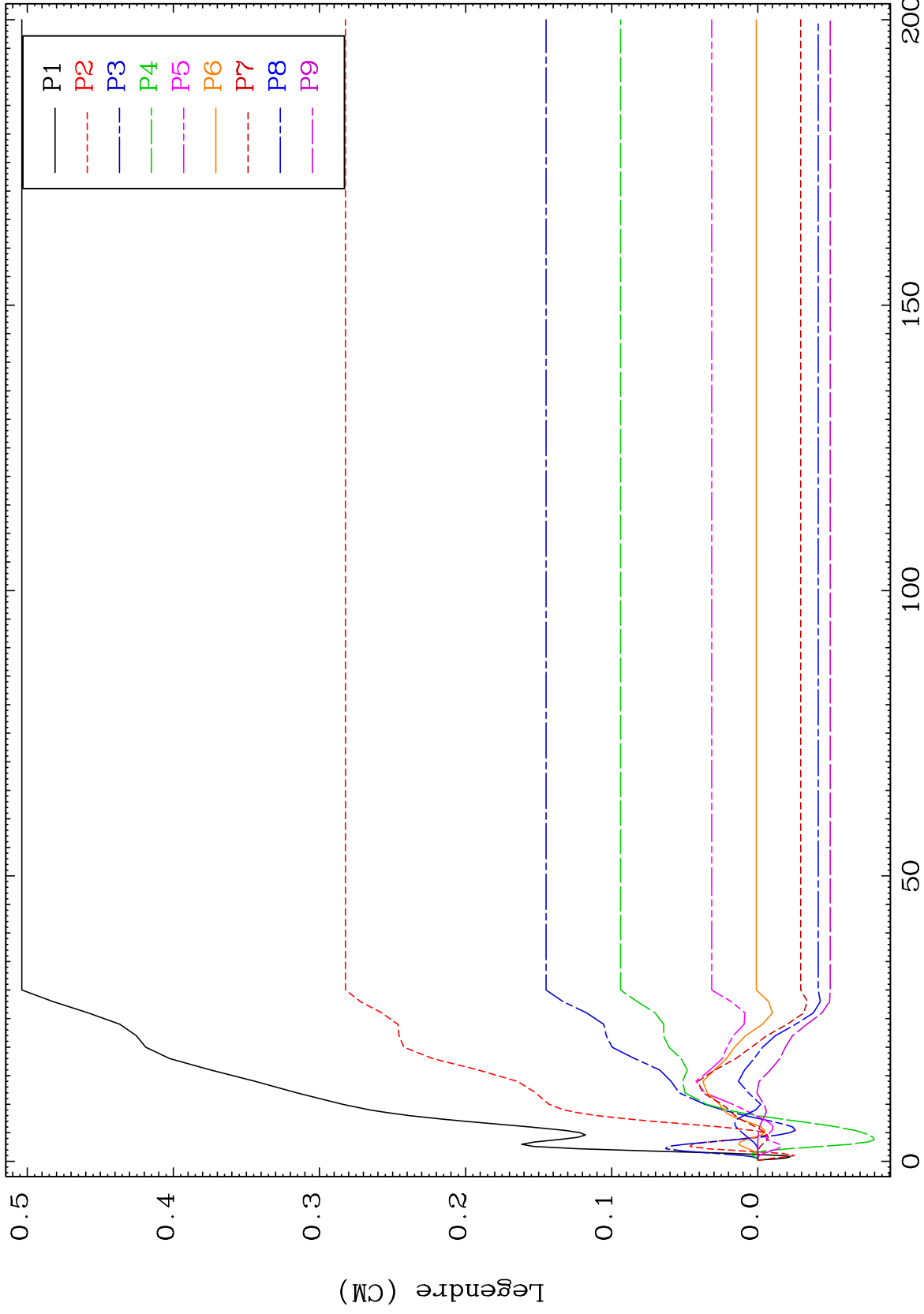
51-Sb-118

MAT 5116

MT= 55 (n,n') Level

51-Sb-118

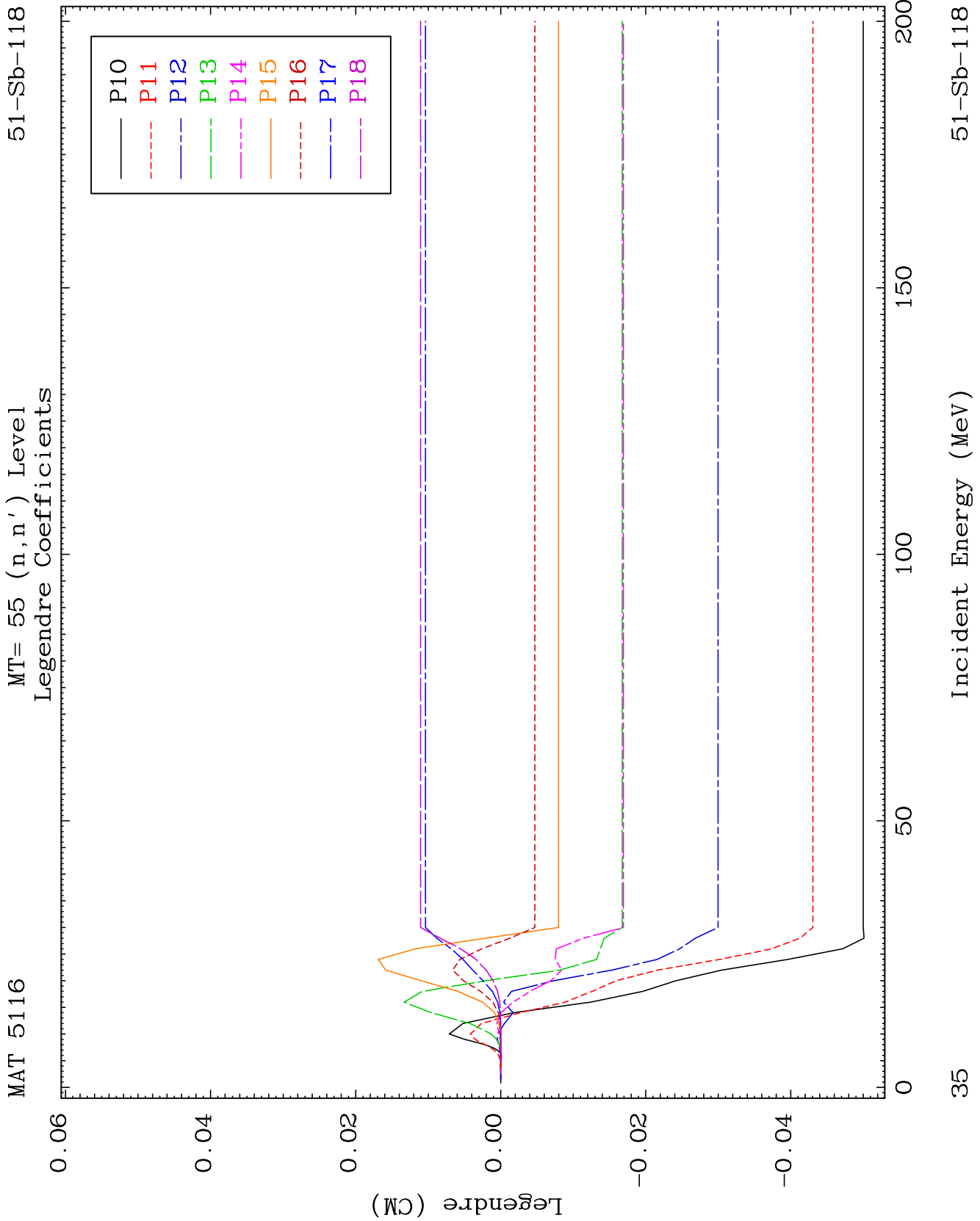
Legendre Coefficients



34

Incident Energy (MeV)

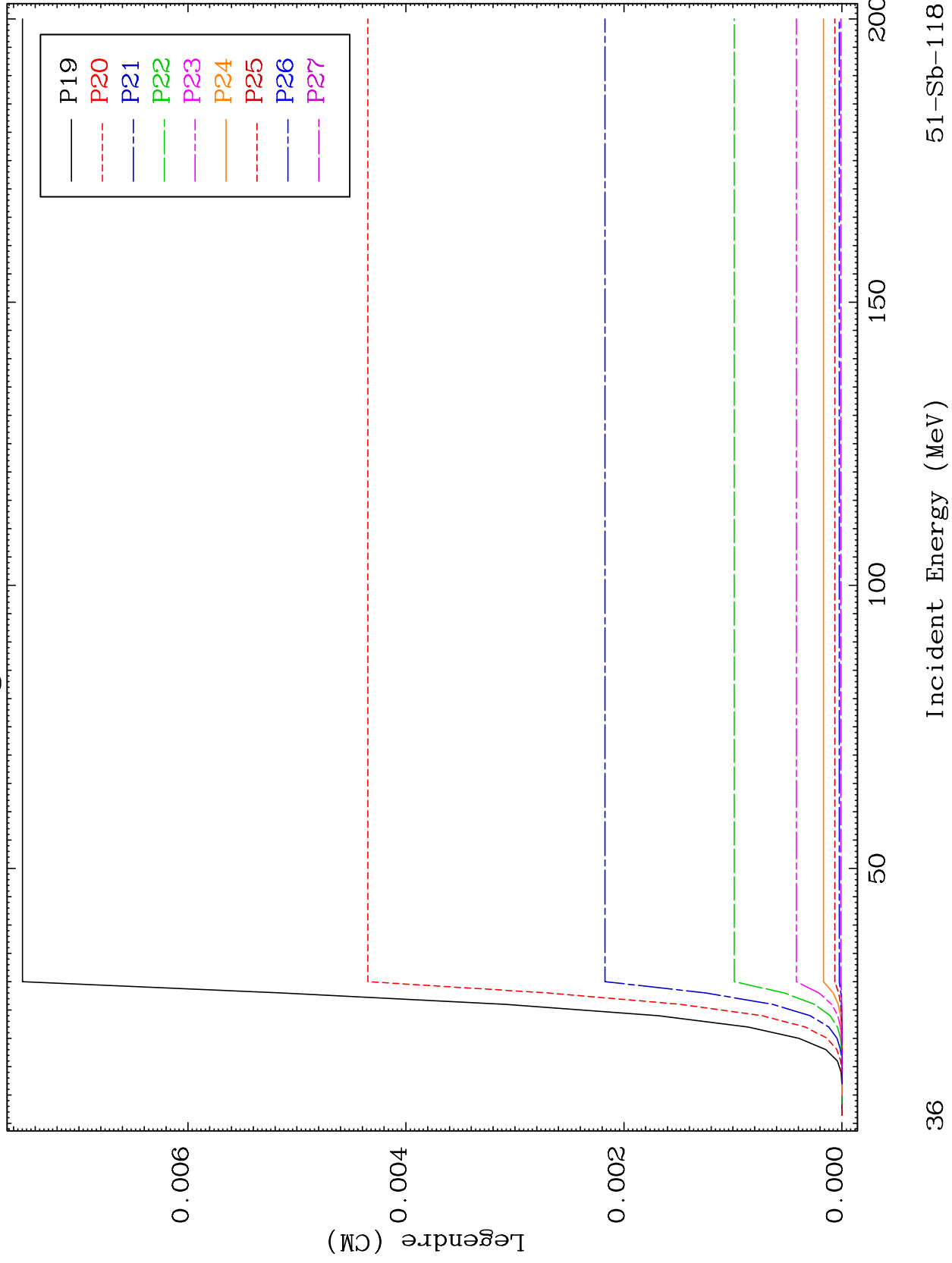
51-Sb-118



MAT 5116

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

51-Sb-118



36

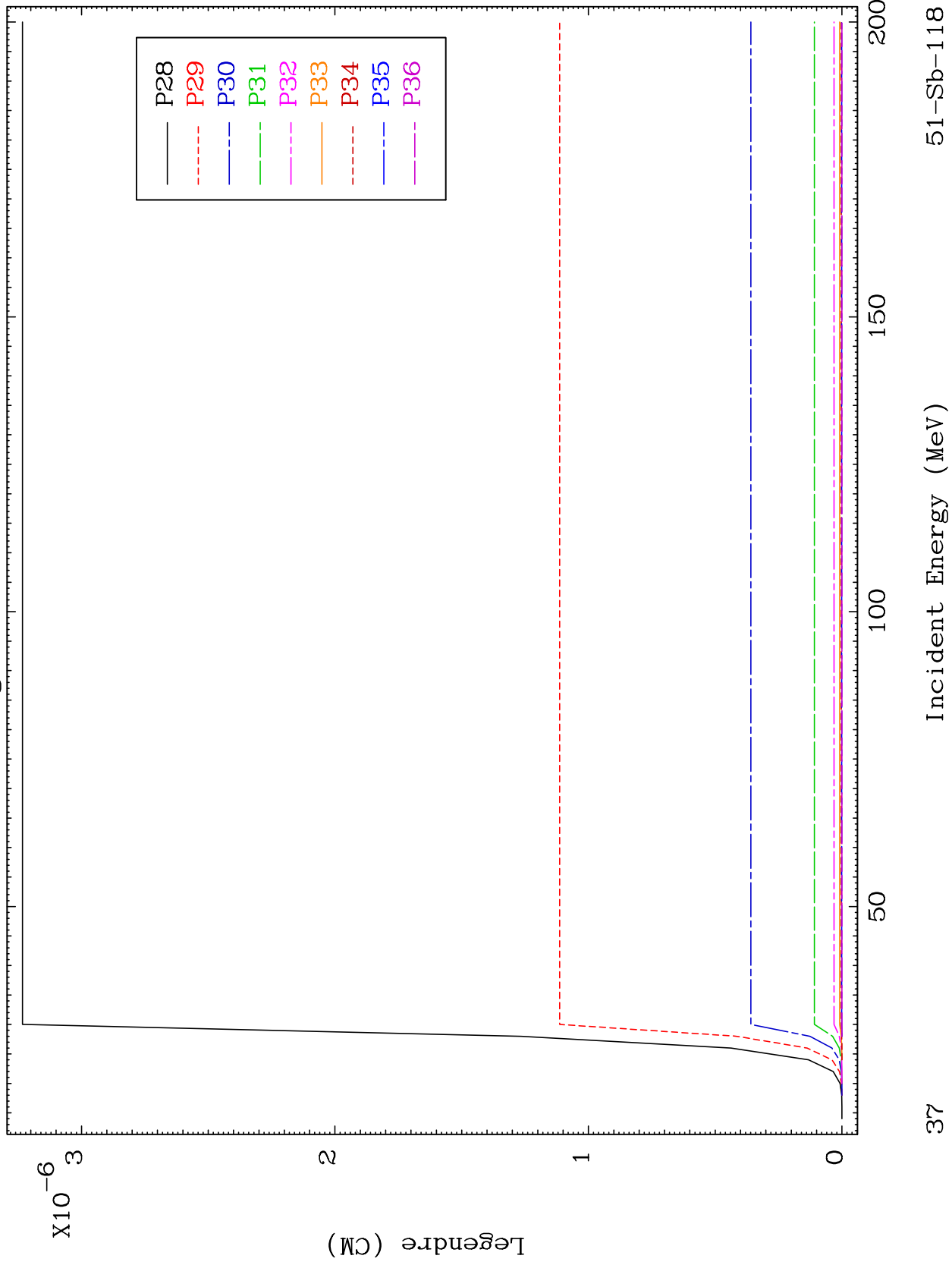
Incident Energy (MeV)

51-Sb-118

MAT 5116

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

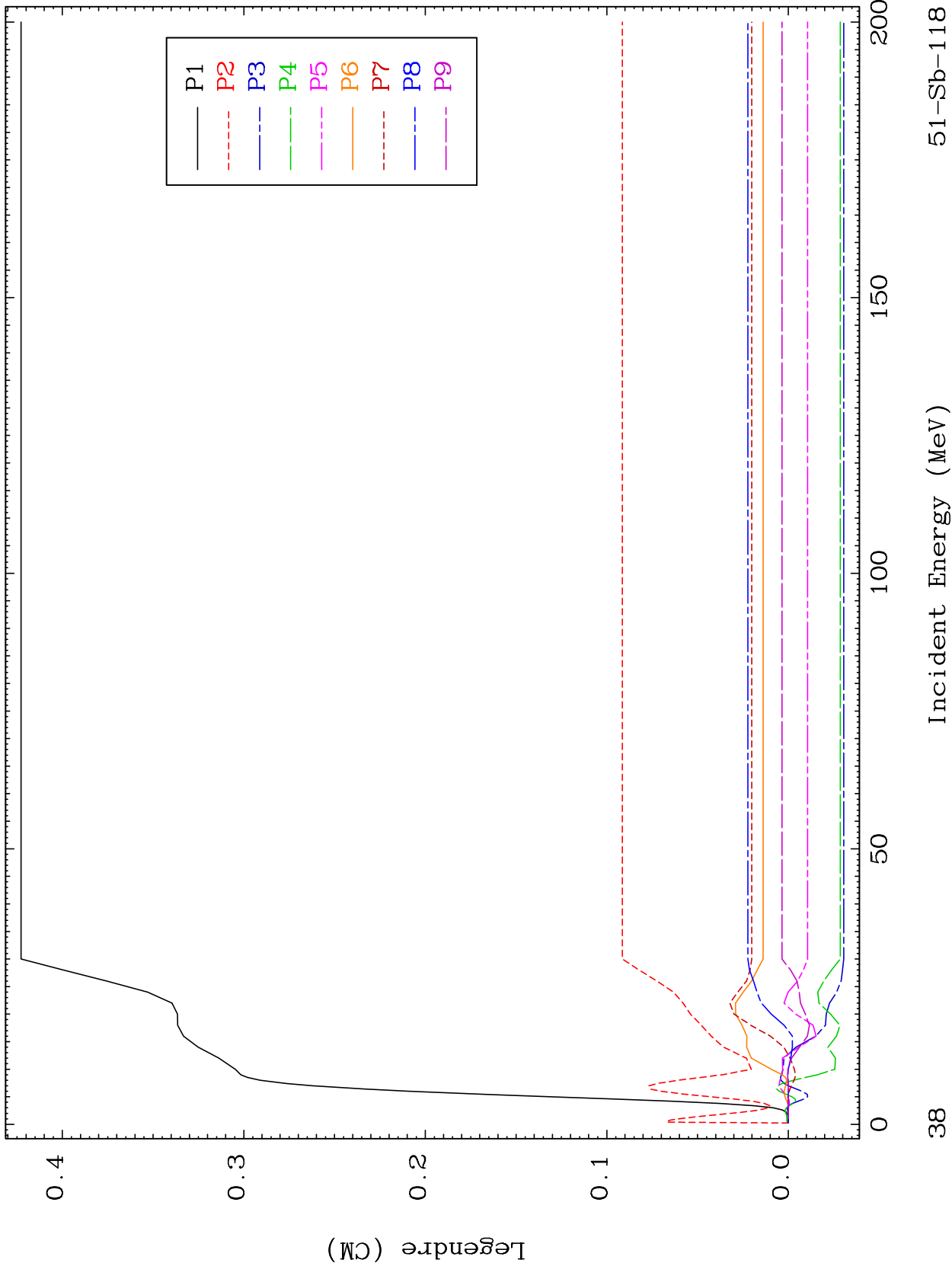
51-Sb-118



MAT 5116

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

51-Sb-118



51-Sb-118

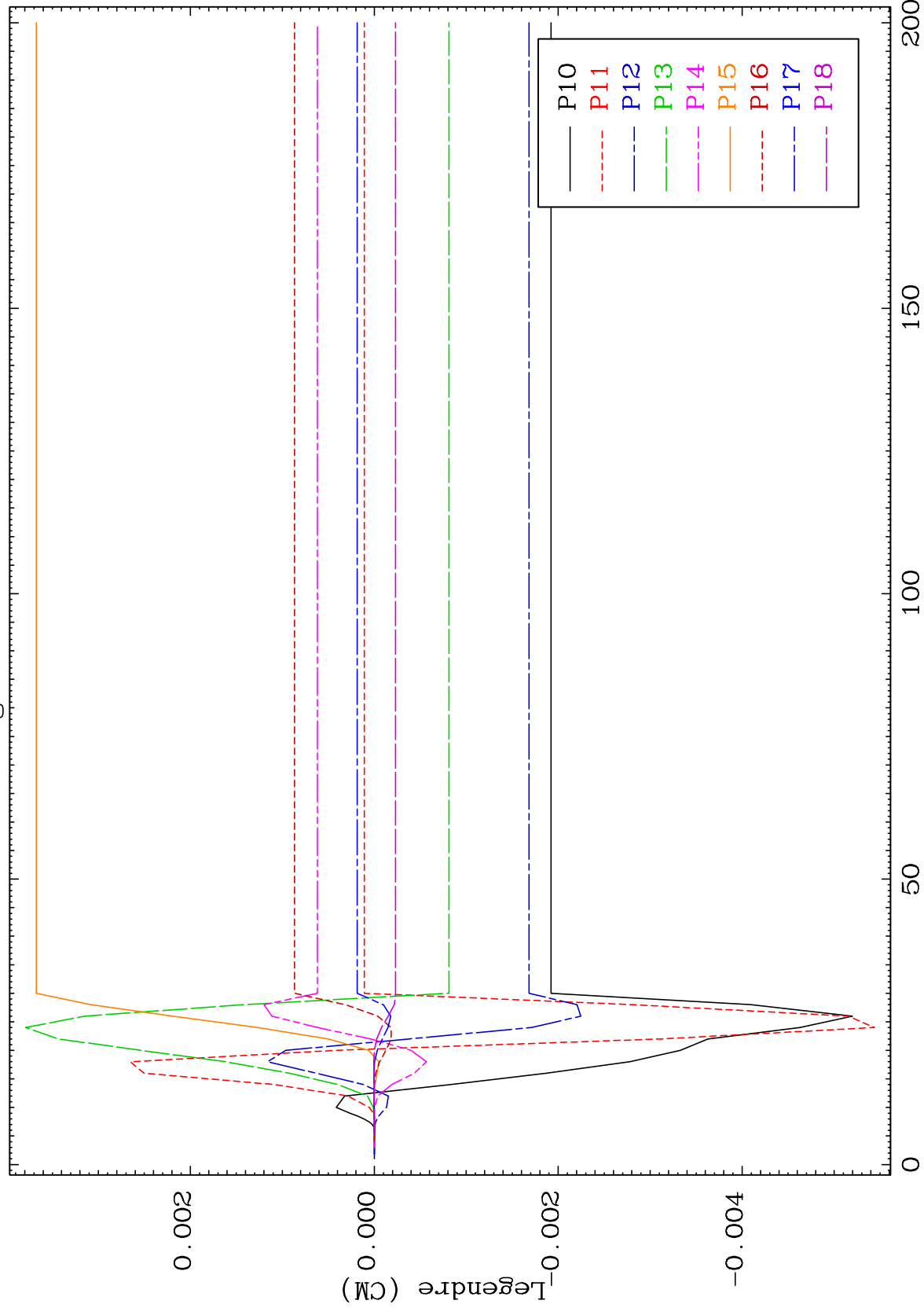
Incident Energy (MeV)

38

MAT 5116

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

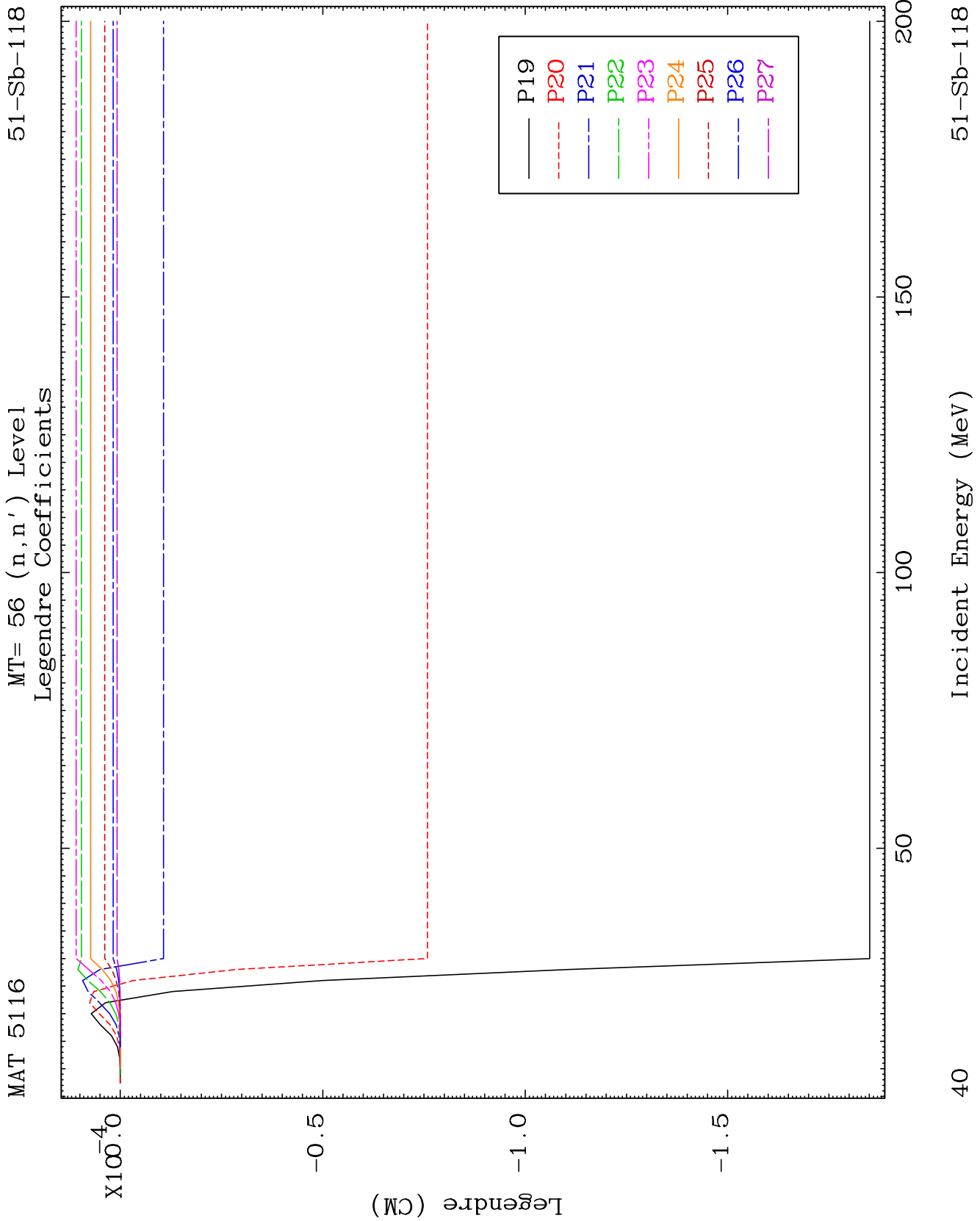
51-Sb-118



39

Incident Energy (MeV)

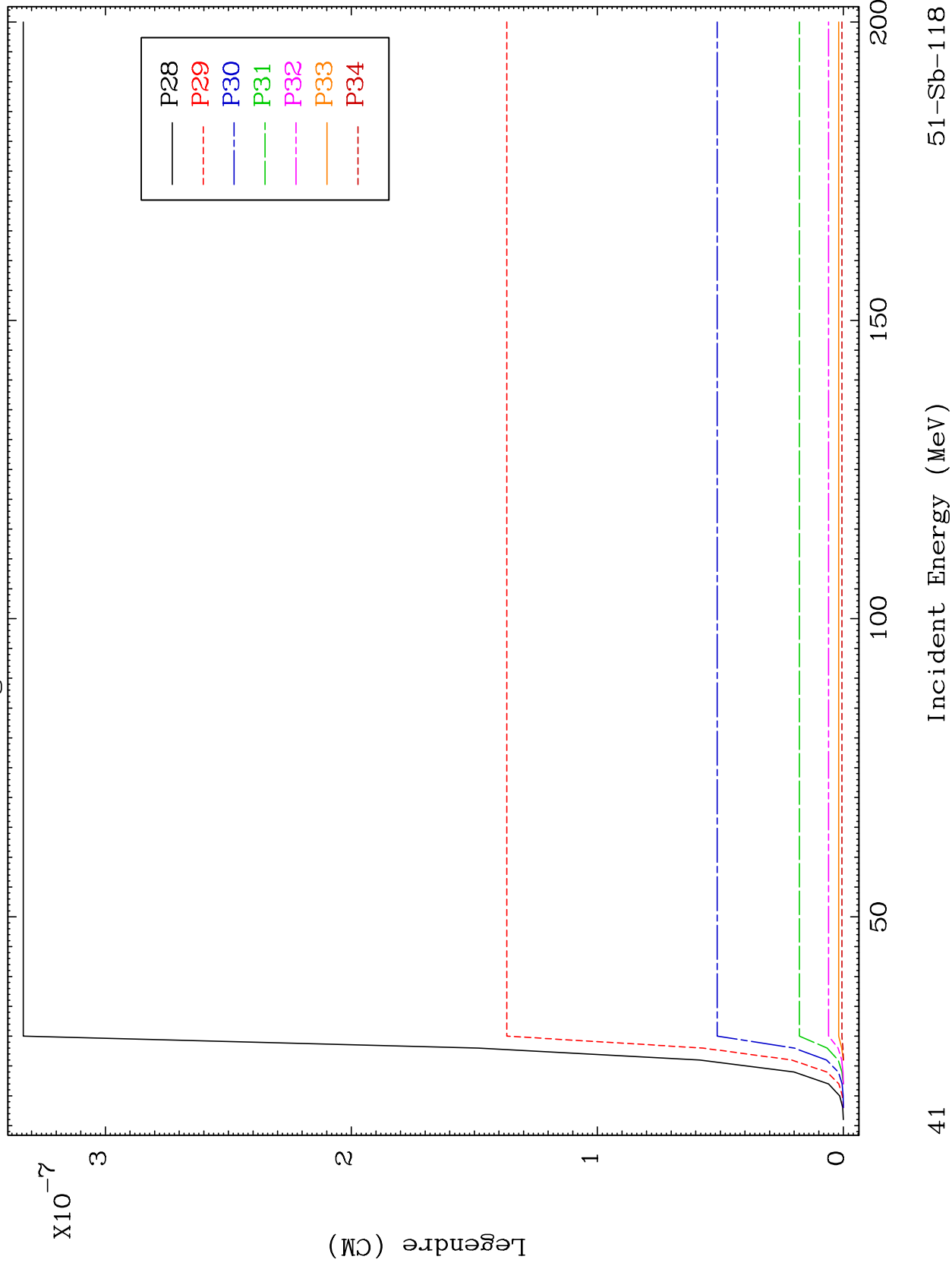
51-Sb-118



MAT 5116

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

51-Sb-118



41

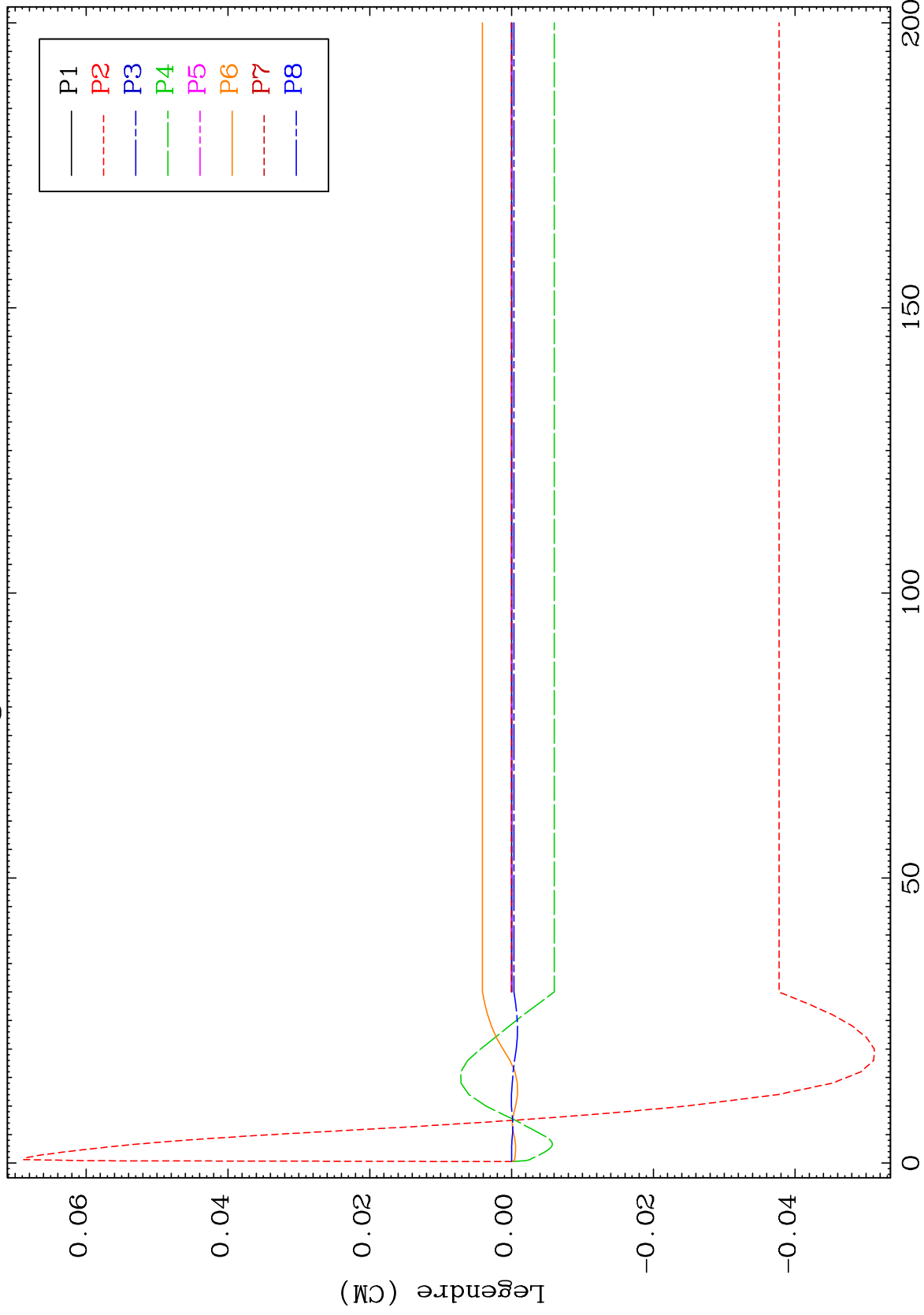
Incident Energy (MeV)

51-Sb-118

MAT 5116

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

51-Sb-118



42

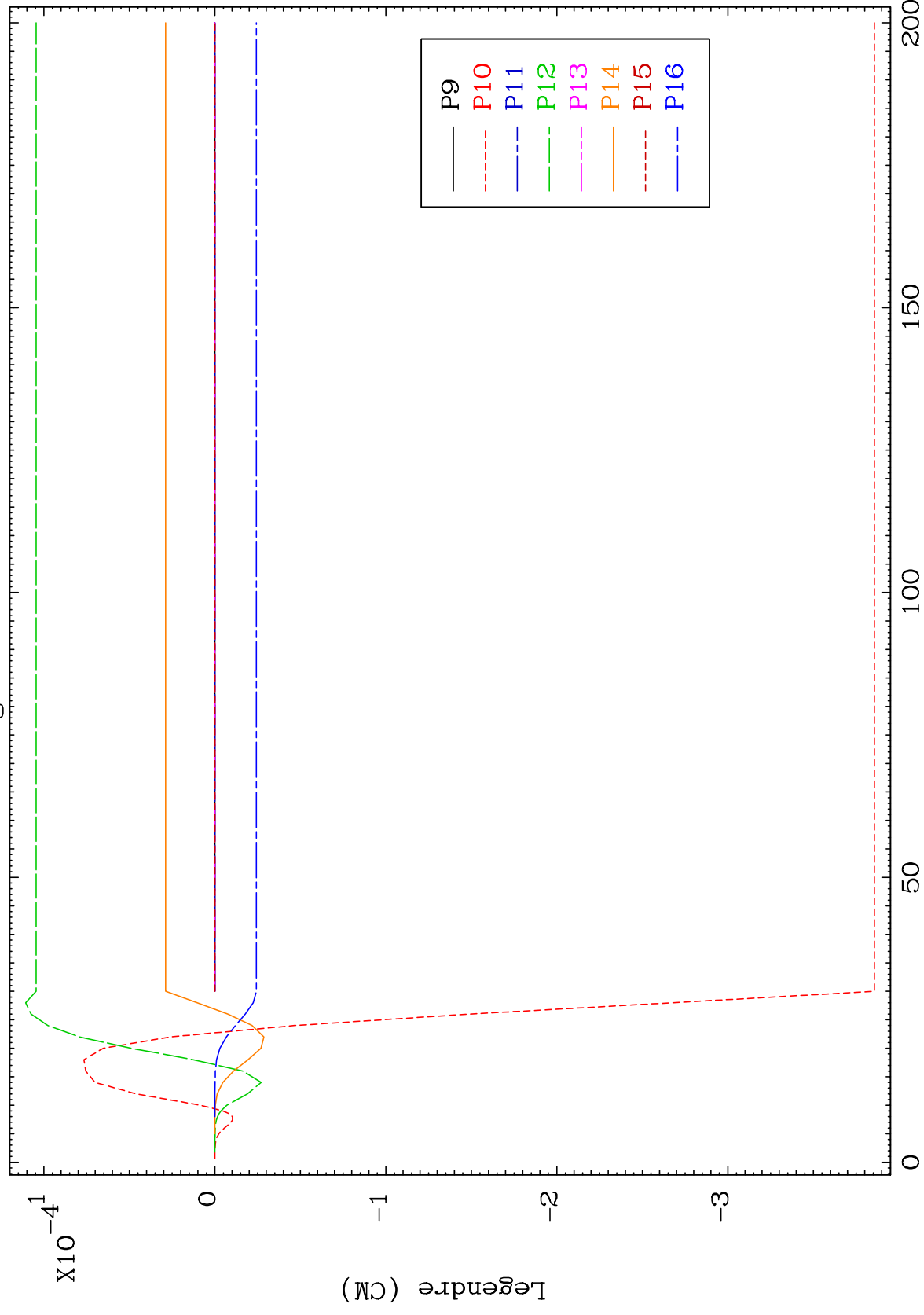
Incident Energy (MeV)

51-Sb-118

MAT 5116

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

51-Sb-118



43

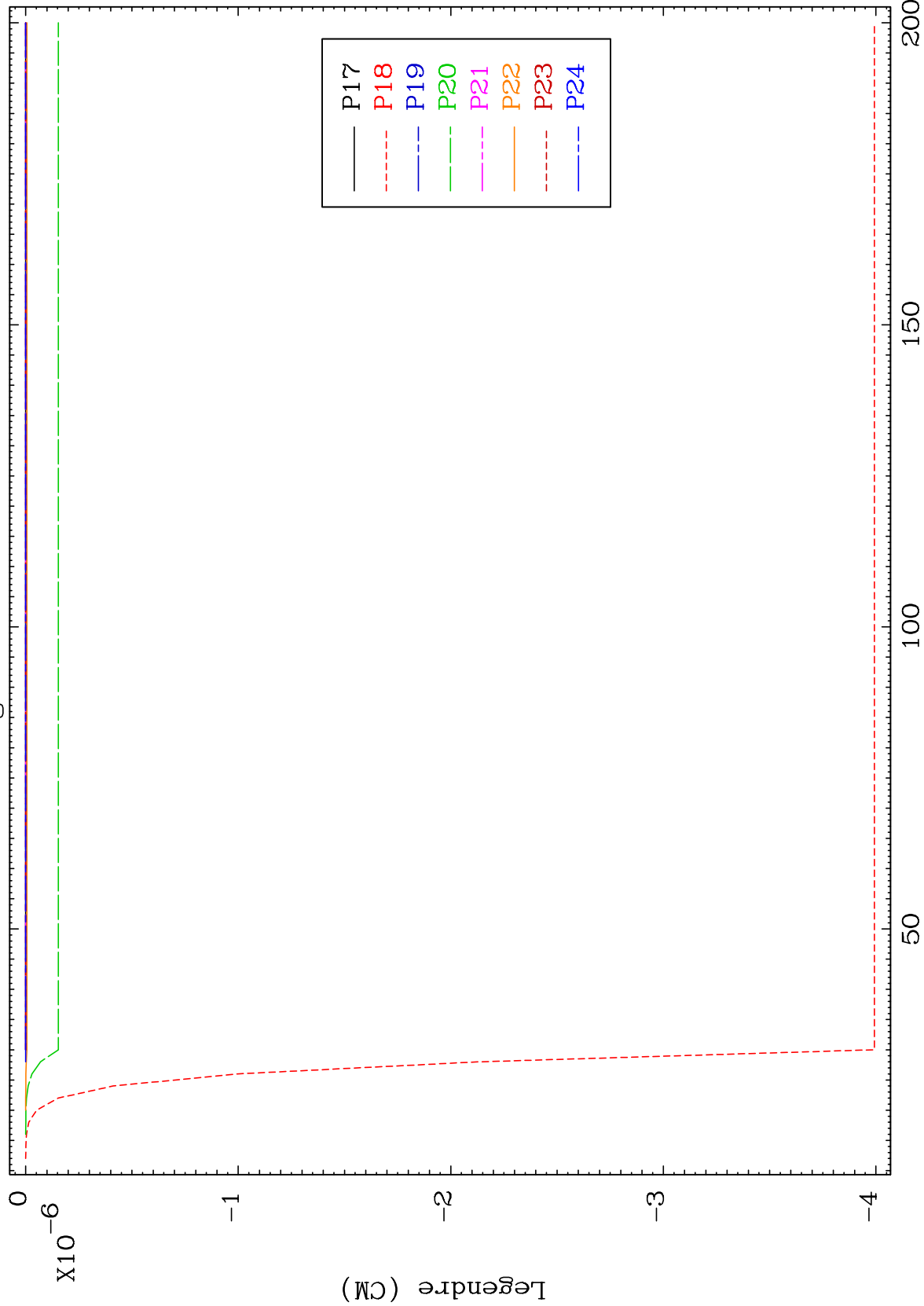
Incident Energy (MeV)

51-Sb-118

MAT 5116

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

51-Sb-118



51-Sb-118

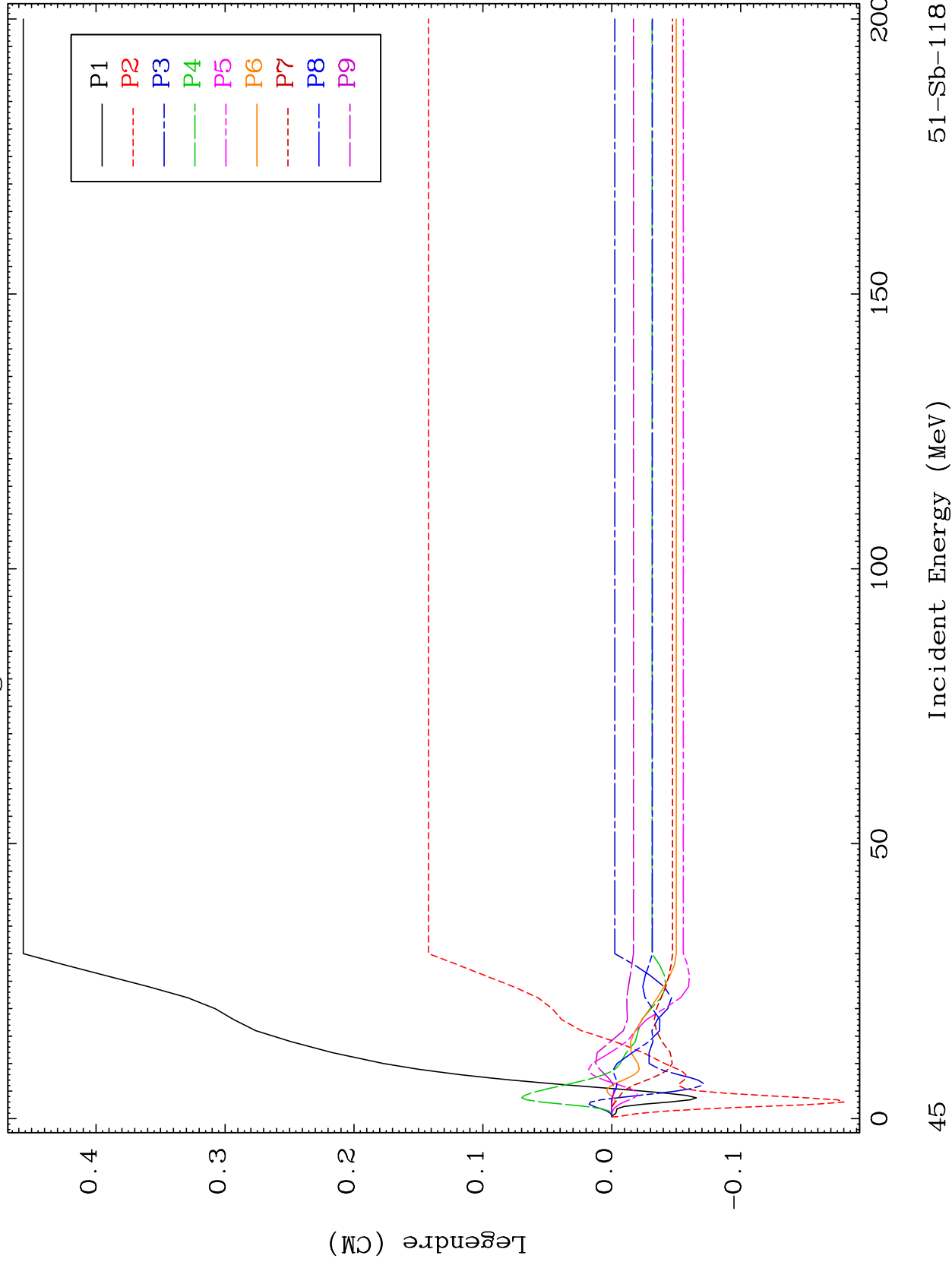
Incident Energy (MeV)

44

MAT 5116

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

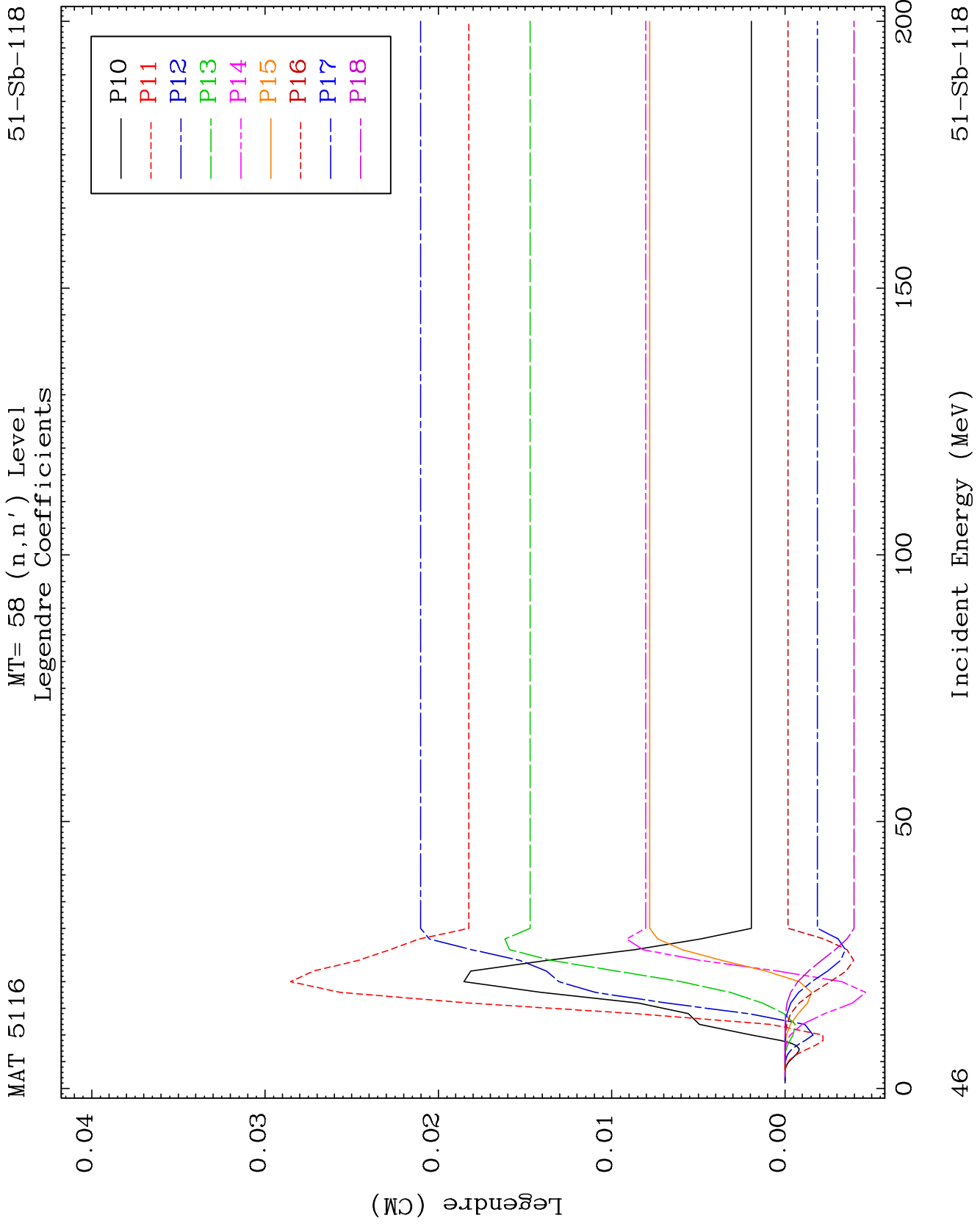
51-Sb-118



51-Sb-118

Incident Energy (MeV)

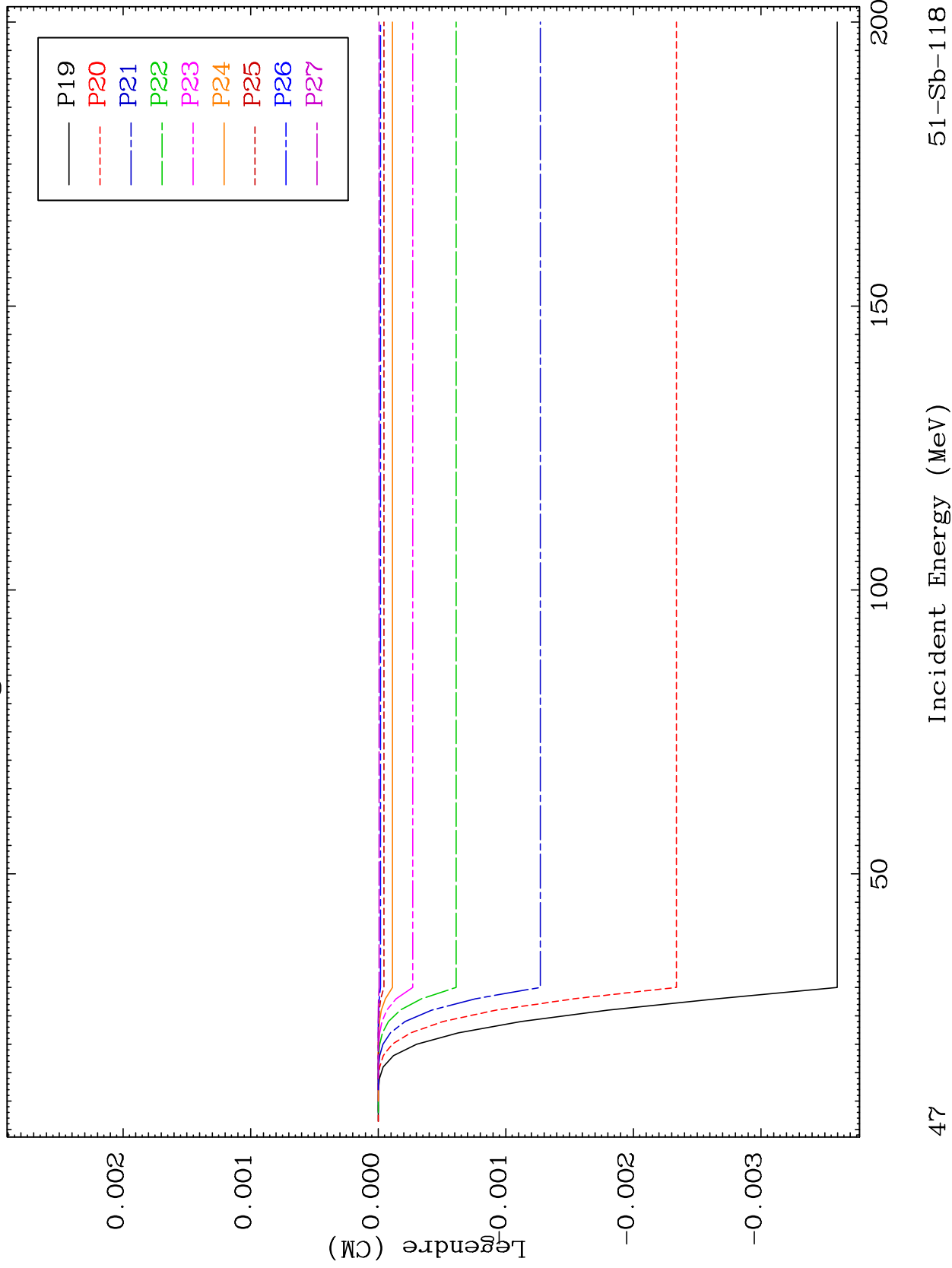
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MAT 5116

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

51-Sb-118



47

Incident Energy (MeV)

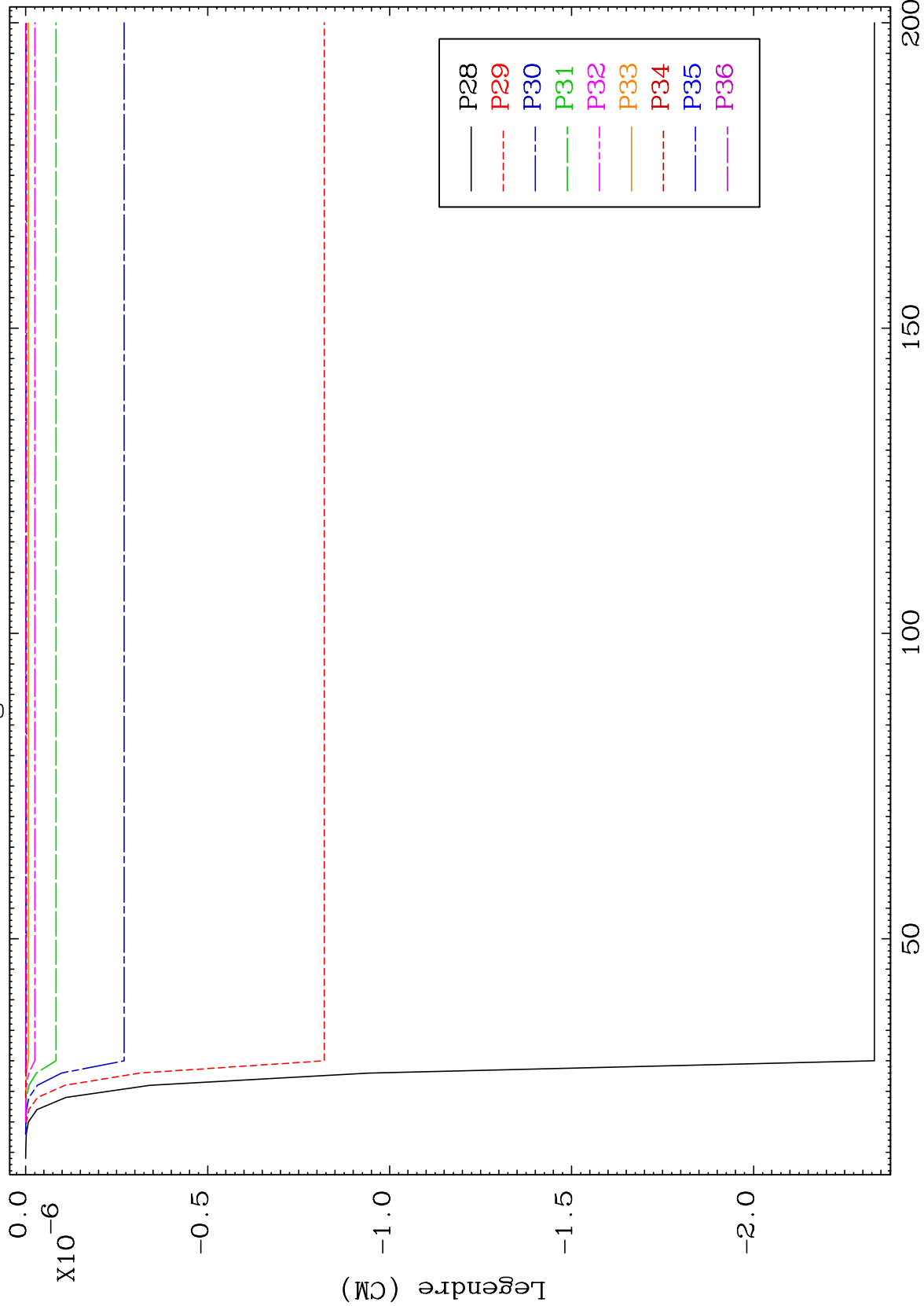
51-Sb-118

MAT 5116

MT= 58 (n,n') Level

51-Sb-118

Legendre Coefficients



51-Sb-118

Incident Energy (MeV)

48

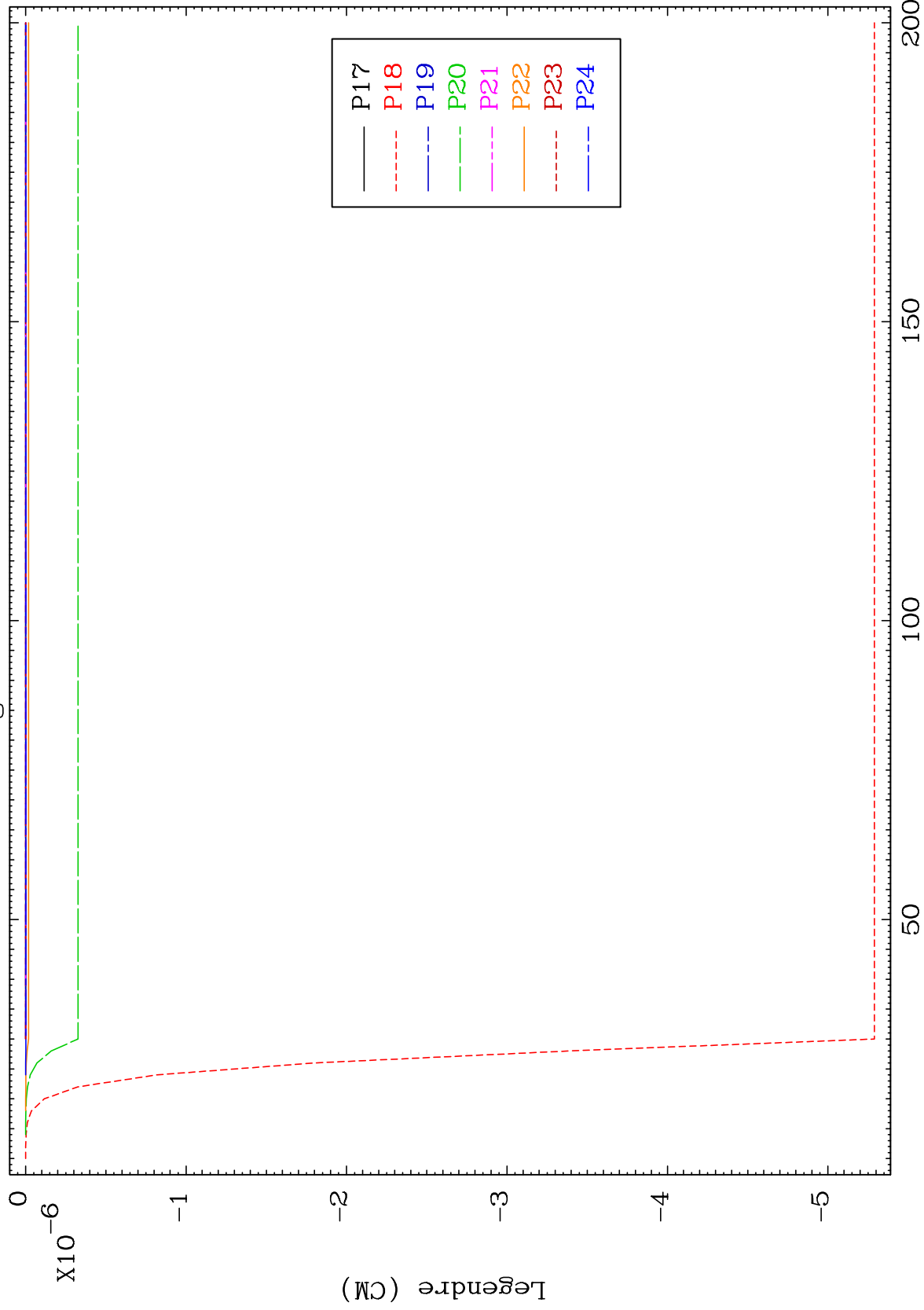




MAT 5116

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

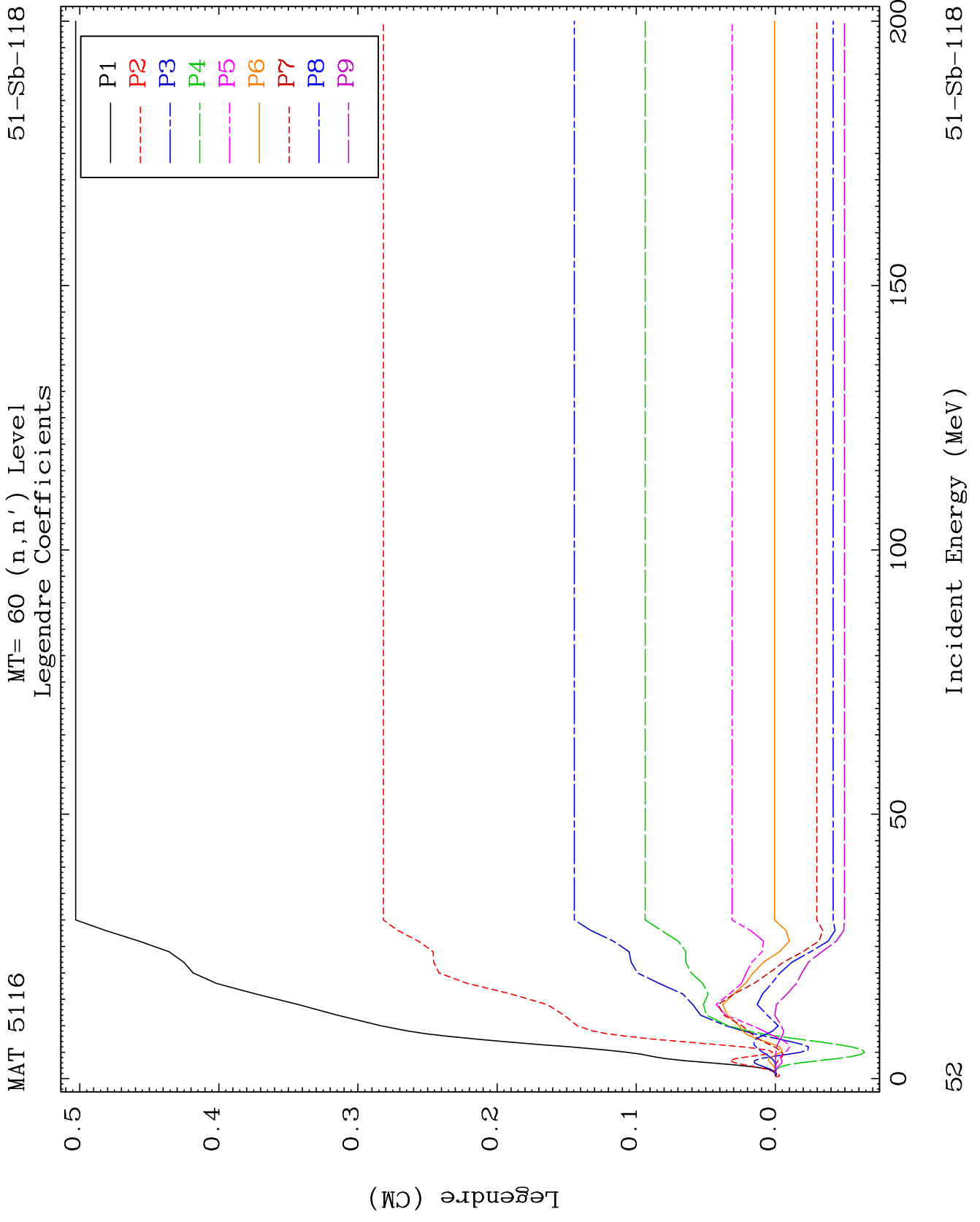
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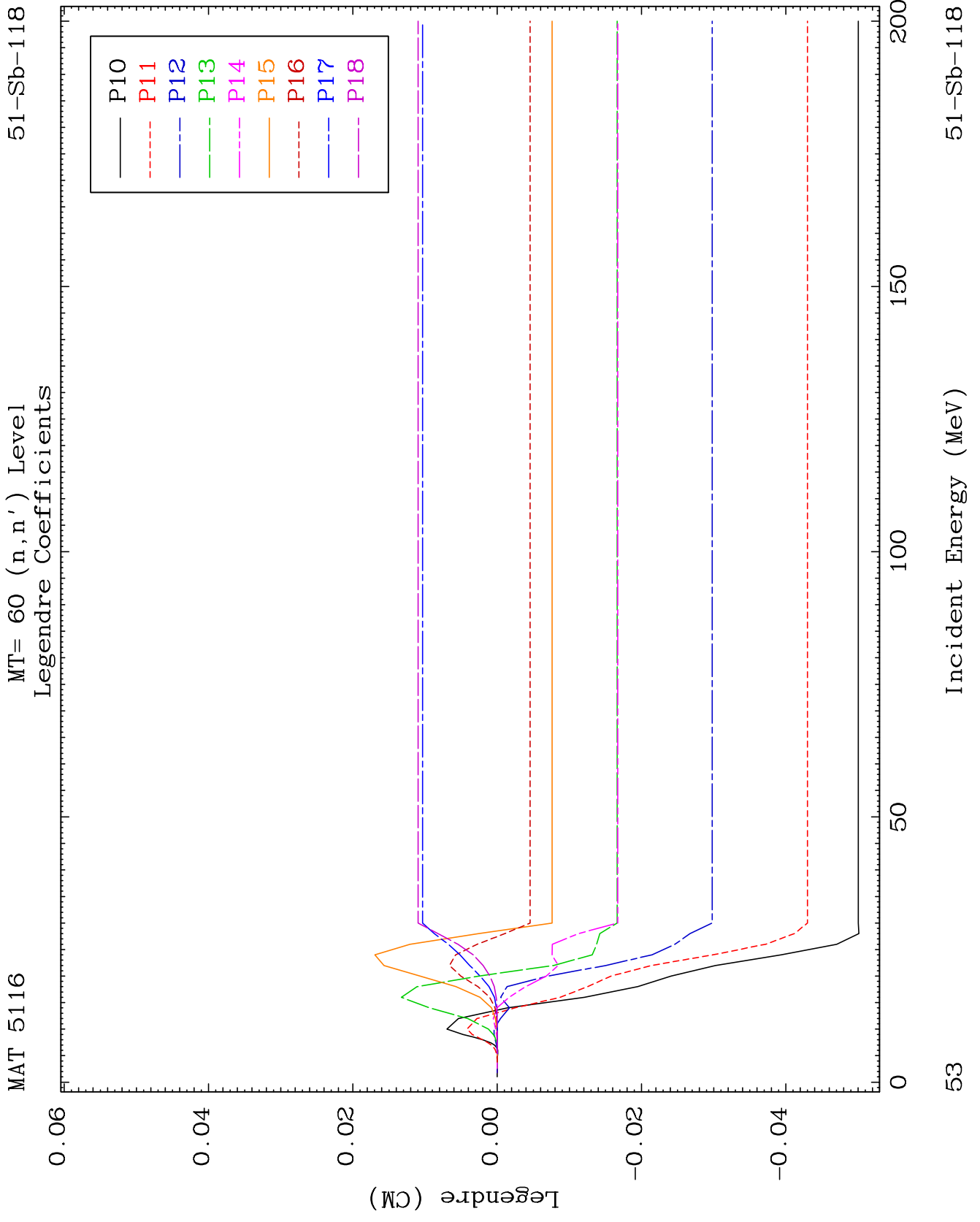


51

Incident Energy (MeV)

51-Sb-118

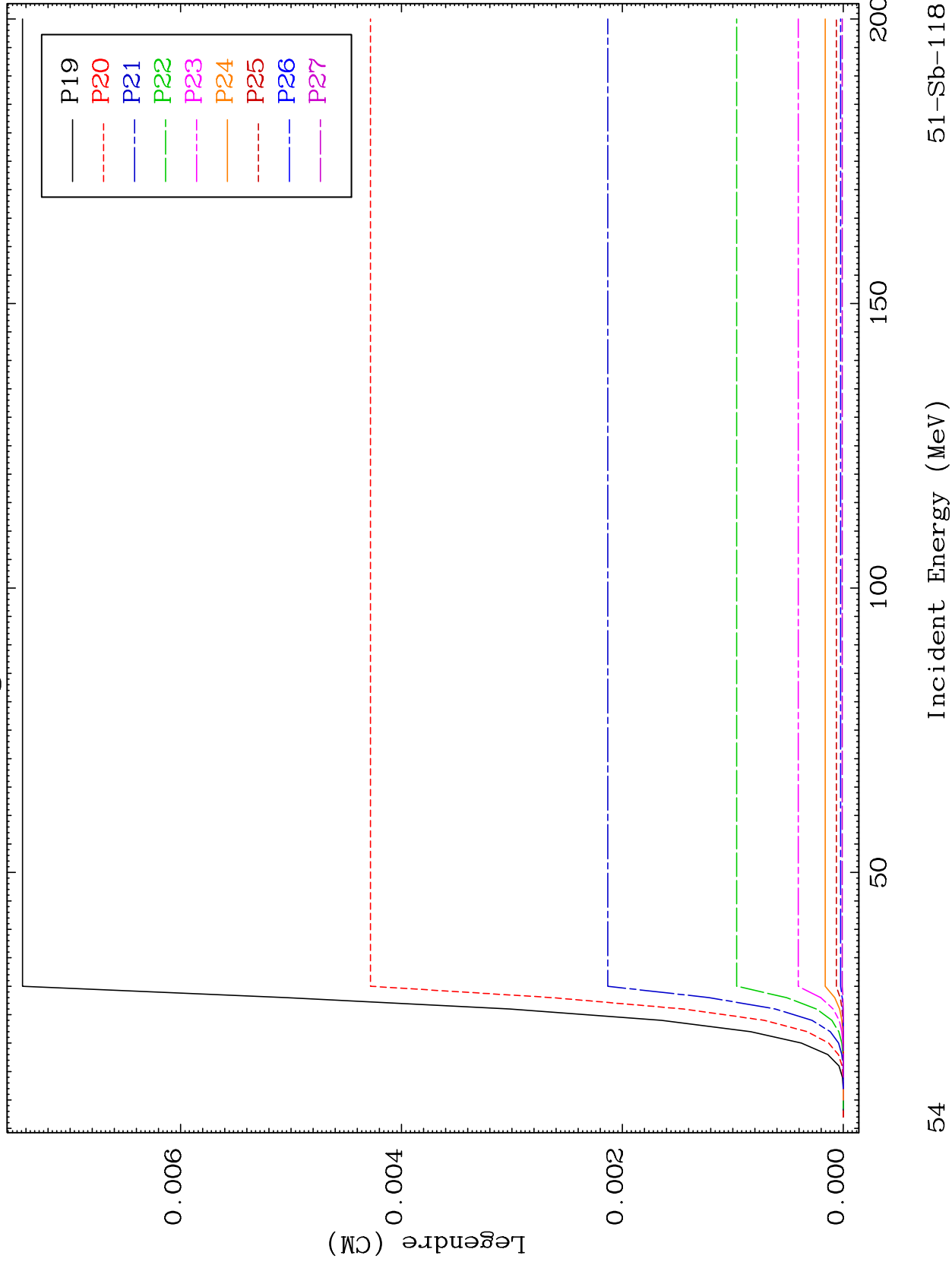




MAT 5116

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

51-Sb-118



54

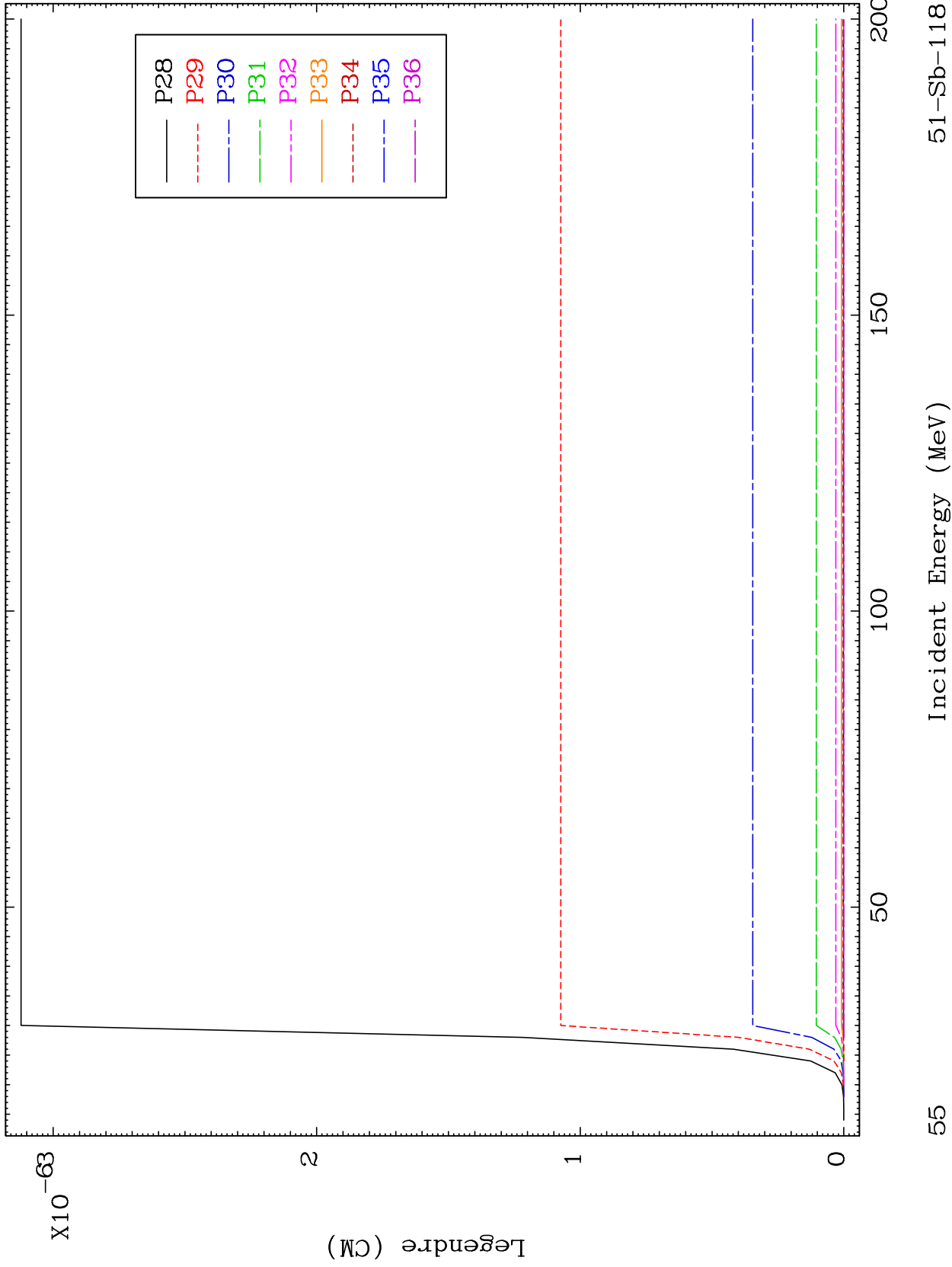
Incident Energy (MeV)

51-Sb-118

MAT 5116

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

51-Sb-118



55

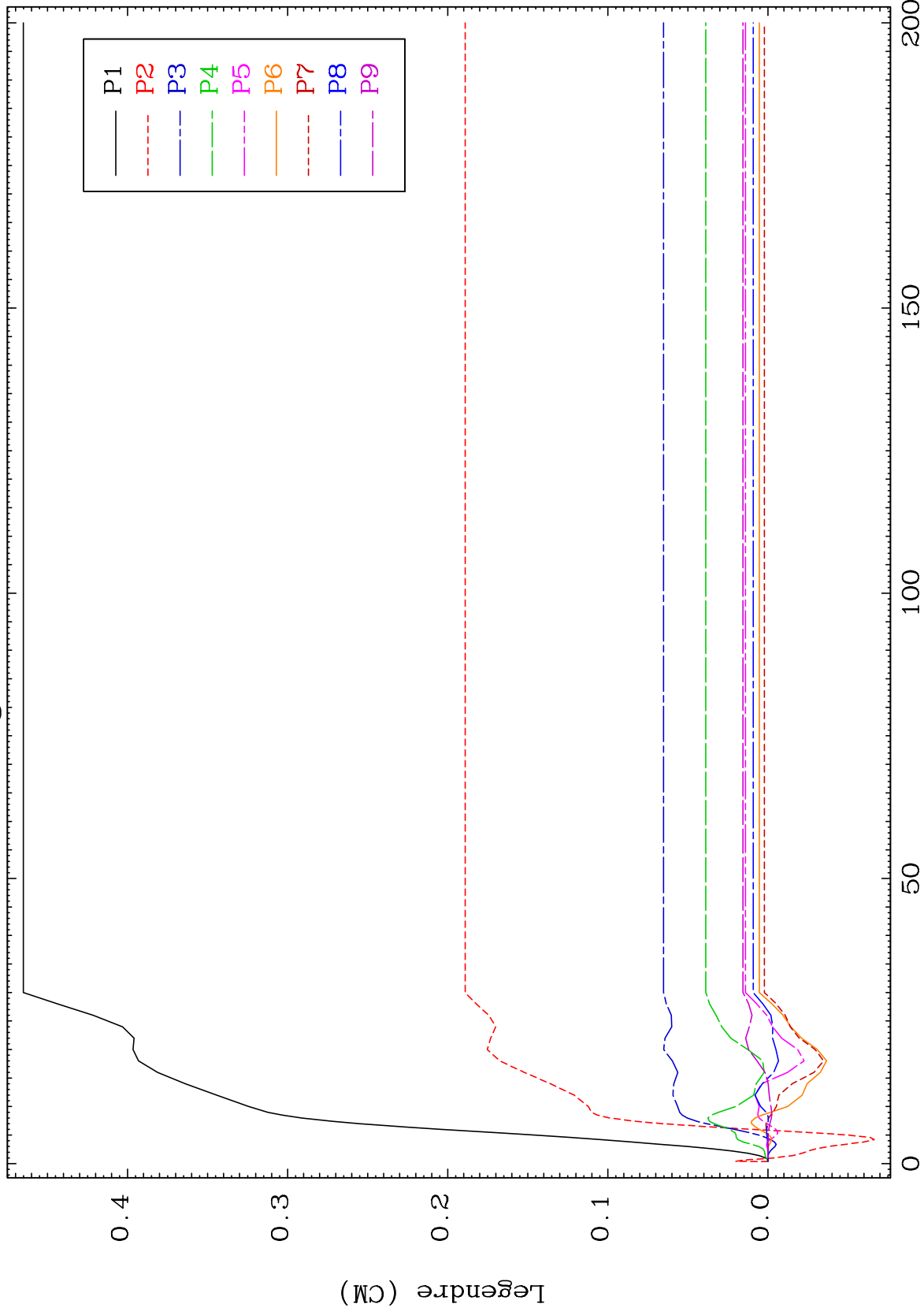
Incident Energy (MeV)

51-Sb-118

MAT 5116

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

51-Sb-118



51-Sb-118

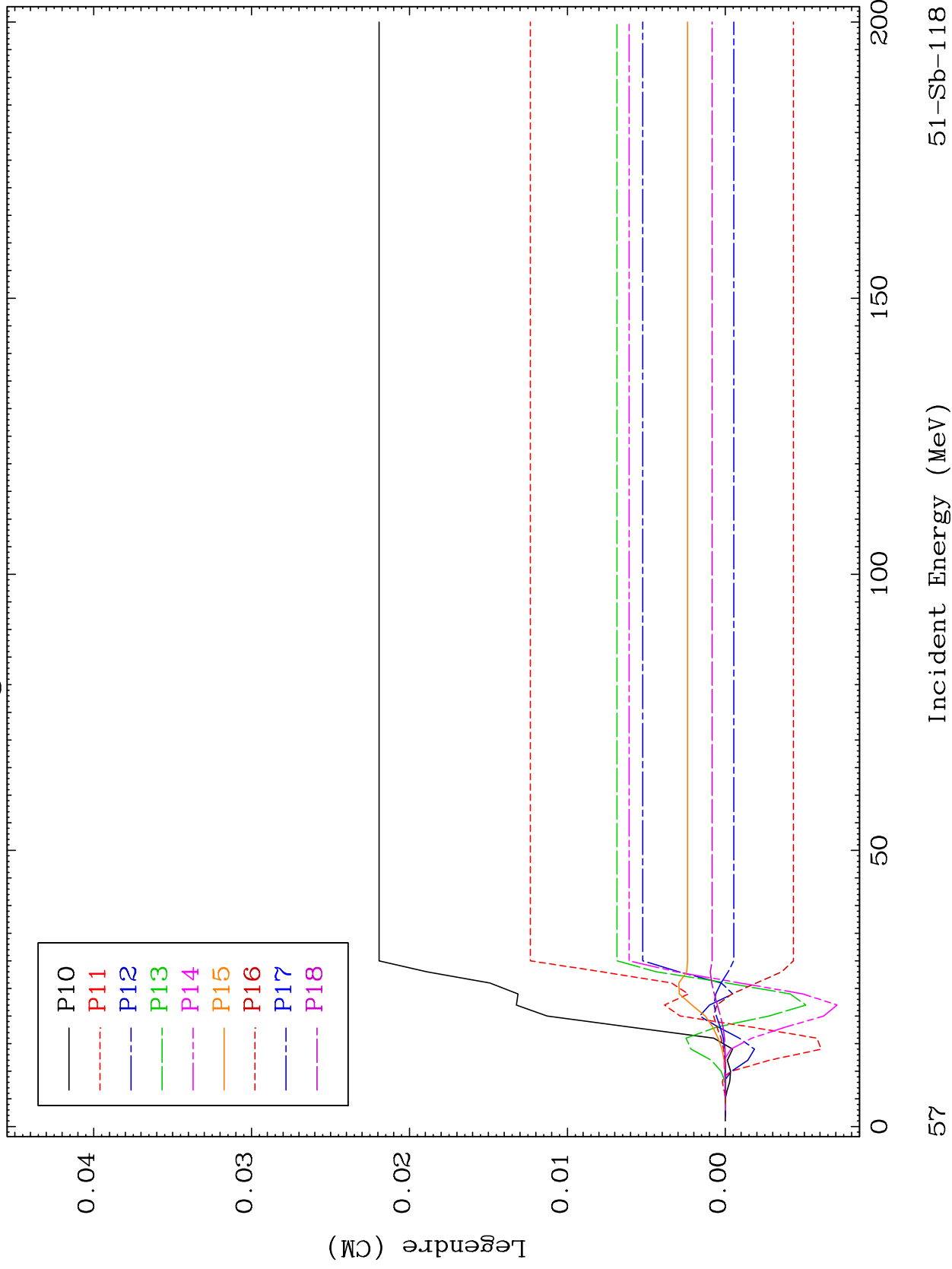
Incident Energy (MeV)

56

MAT 5116

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

51-Sb-118



57

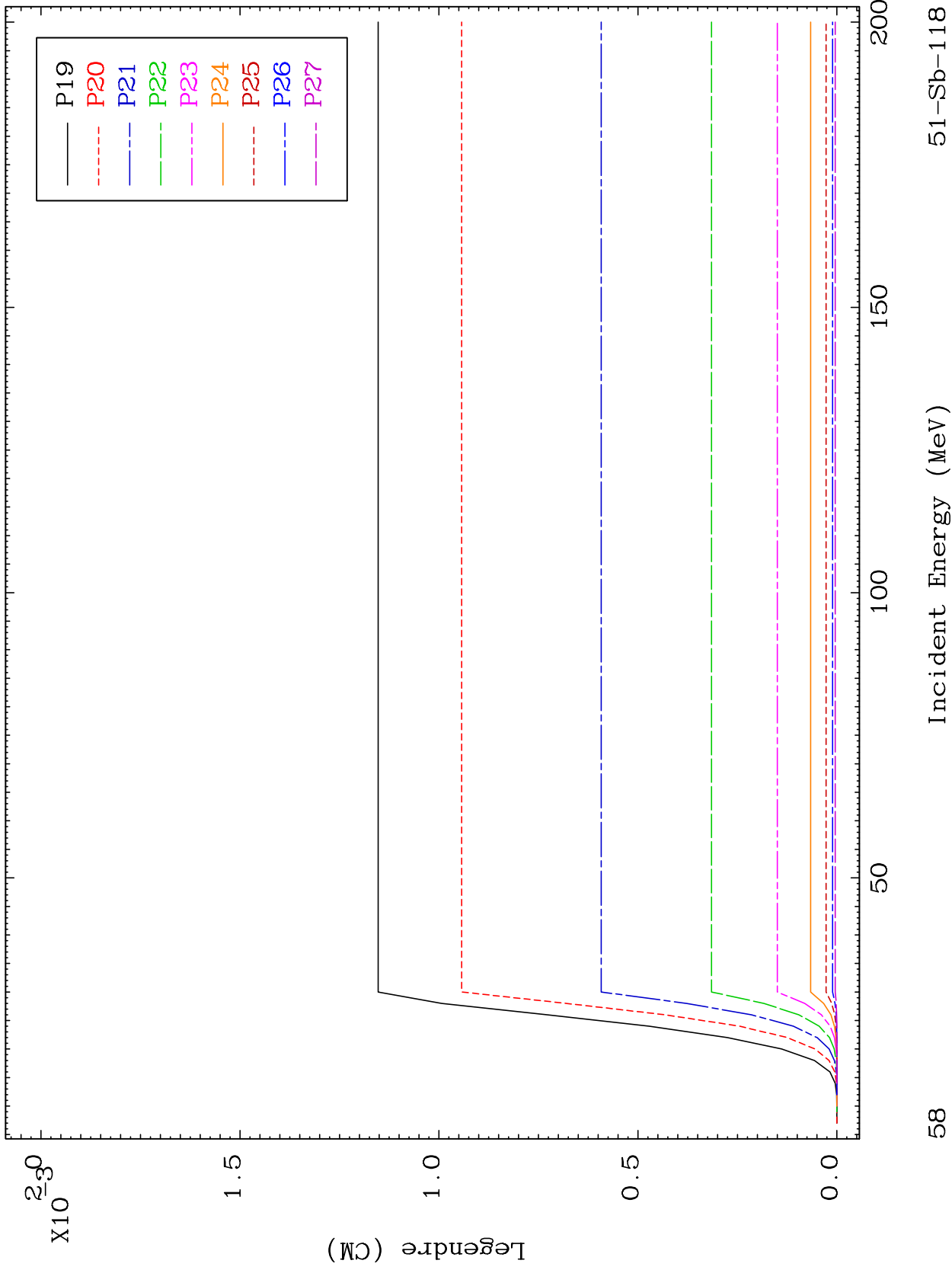
Incident Energy (MeV)

51-Sb-118

MAT 51116

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

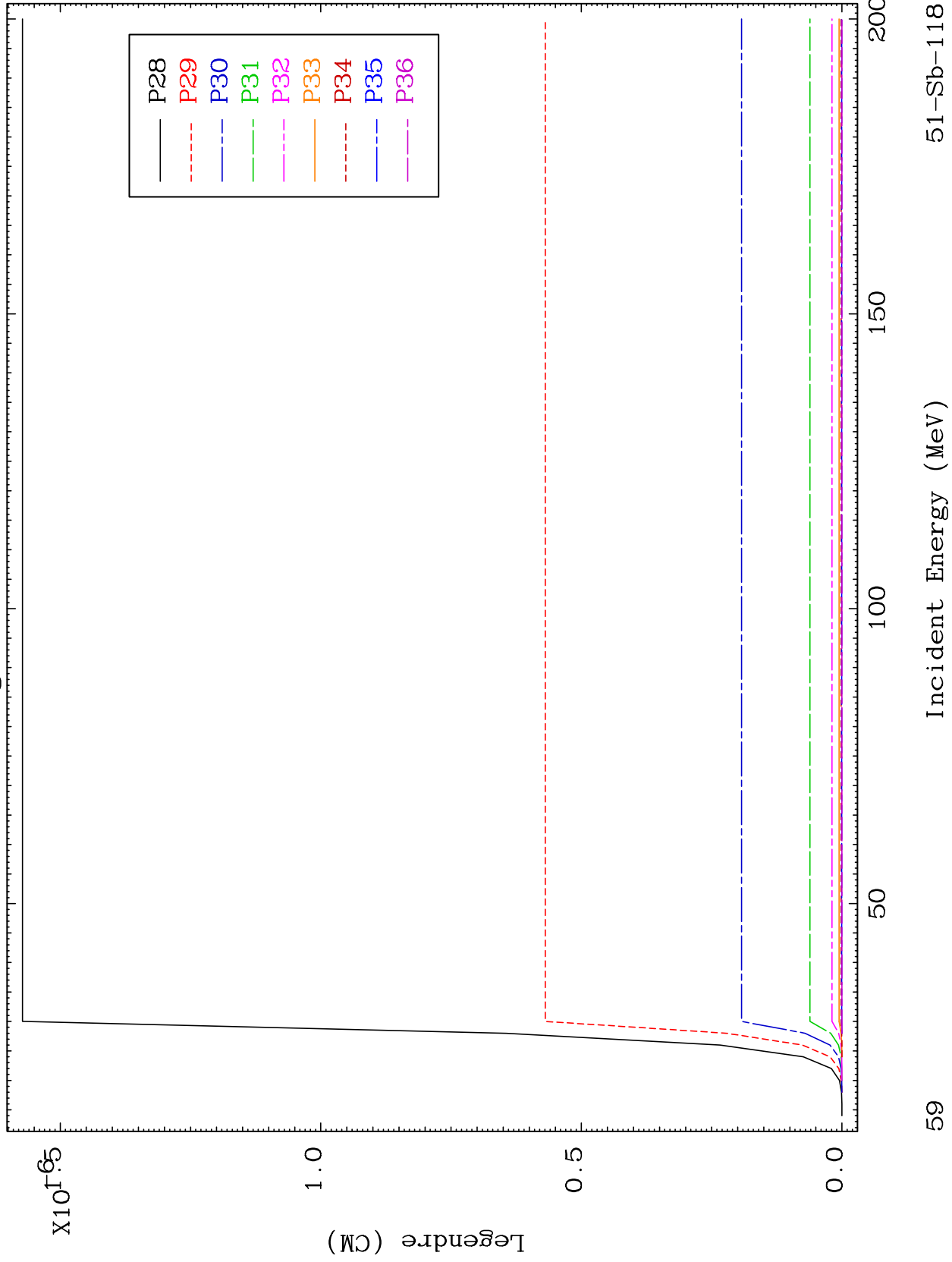
51-Sb-118



MAT 5116

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

51-Sb-118



59

Incident Energy (MeV)

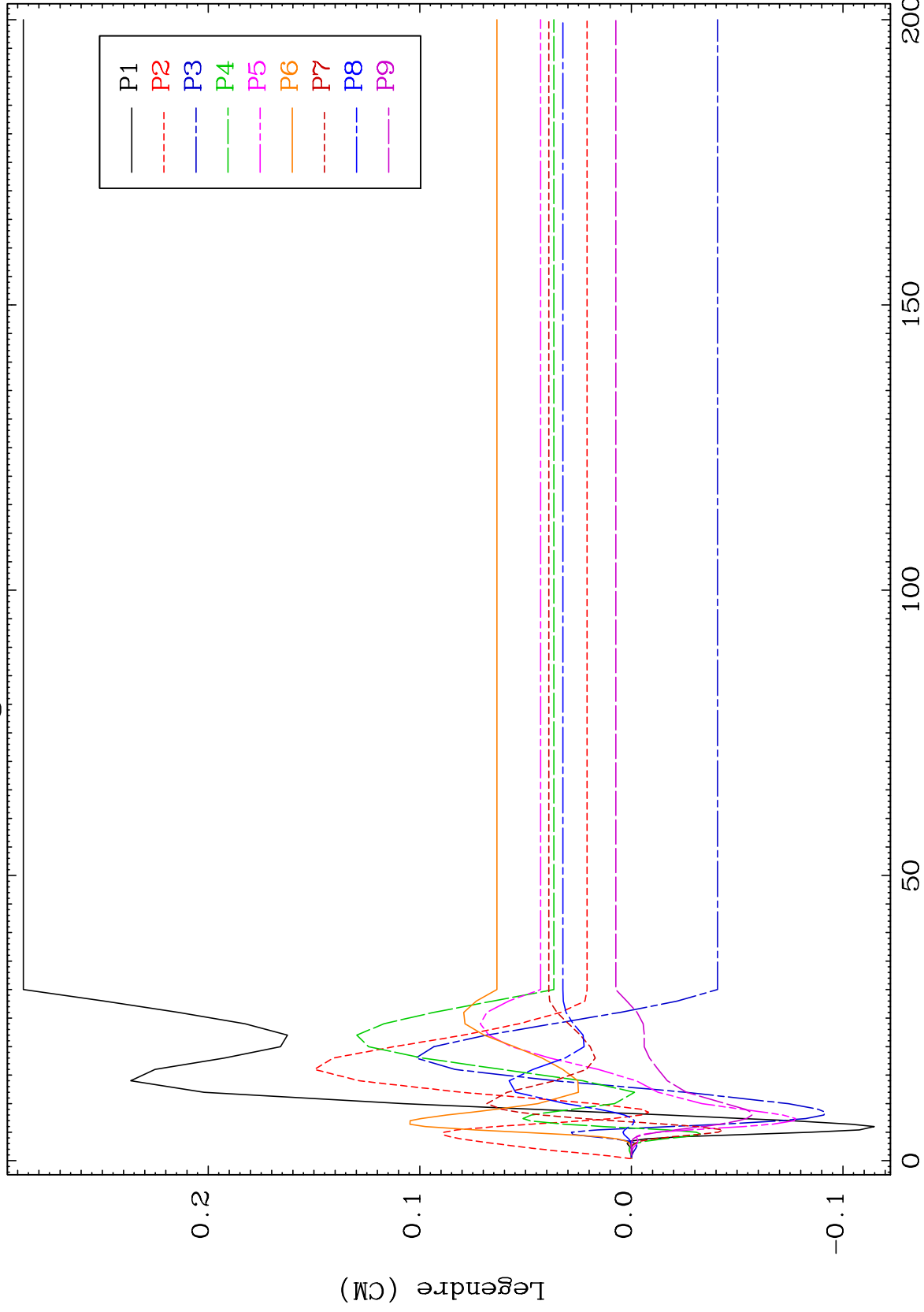
51-Sb-118

MAT 5116

MT= 62 (n,n') Level

51-Sb-118

Legendre Coefficients



51-Sb-118

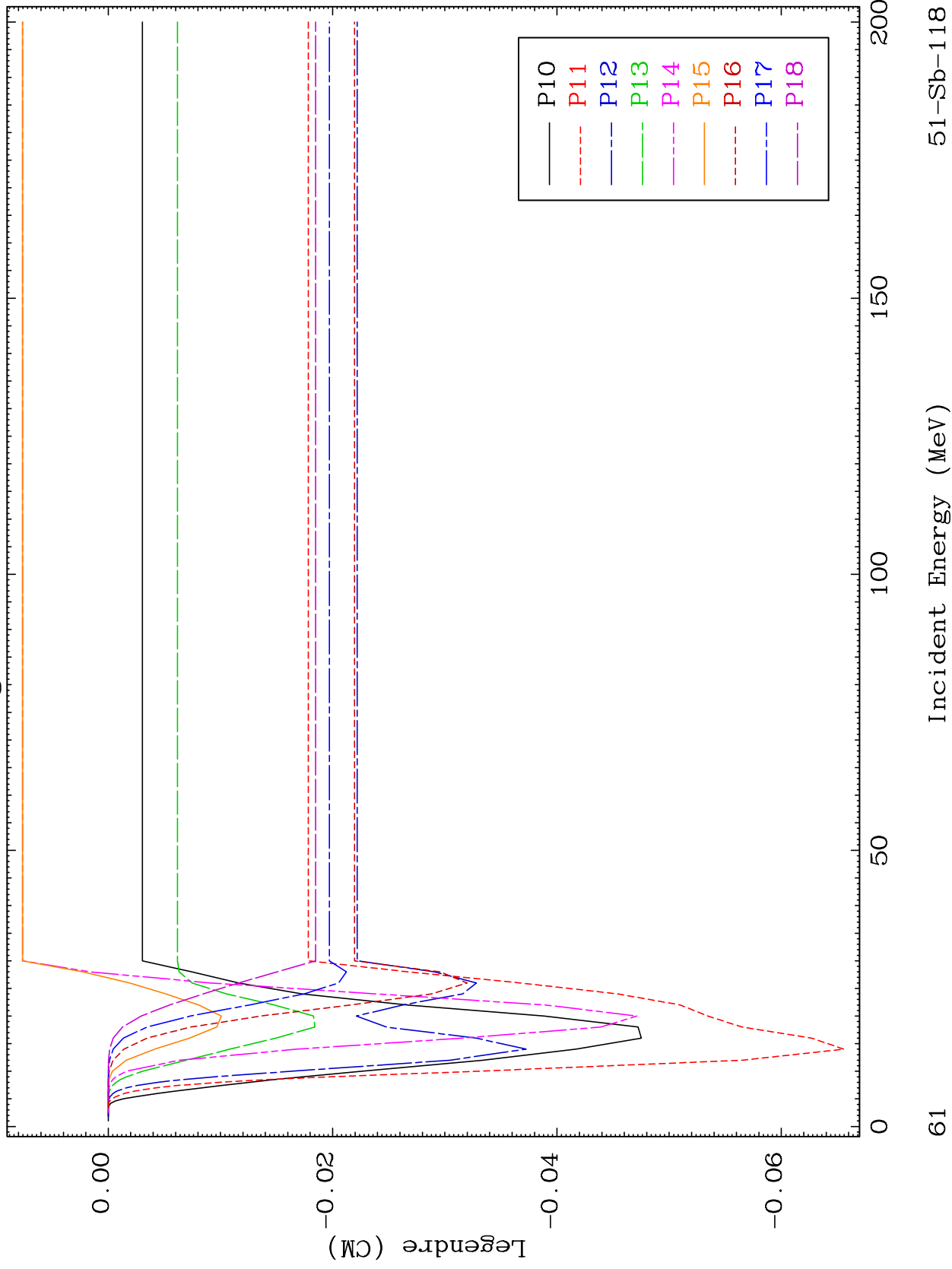
Incident Energy (MeV)

60

MAT 5116

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

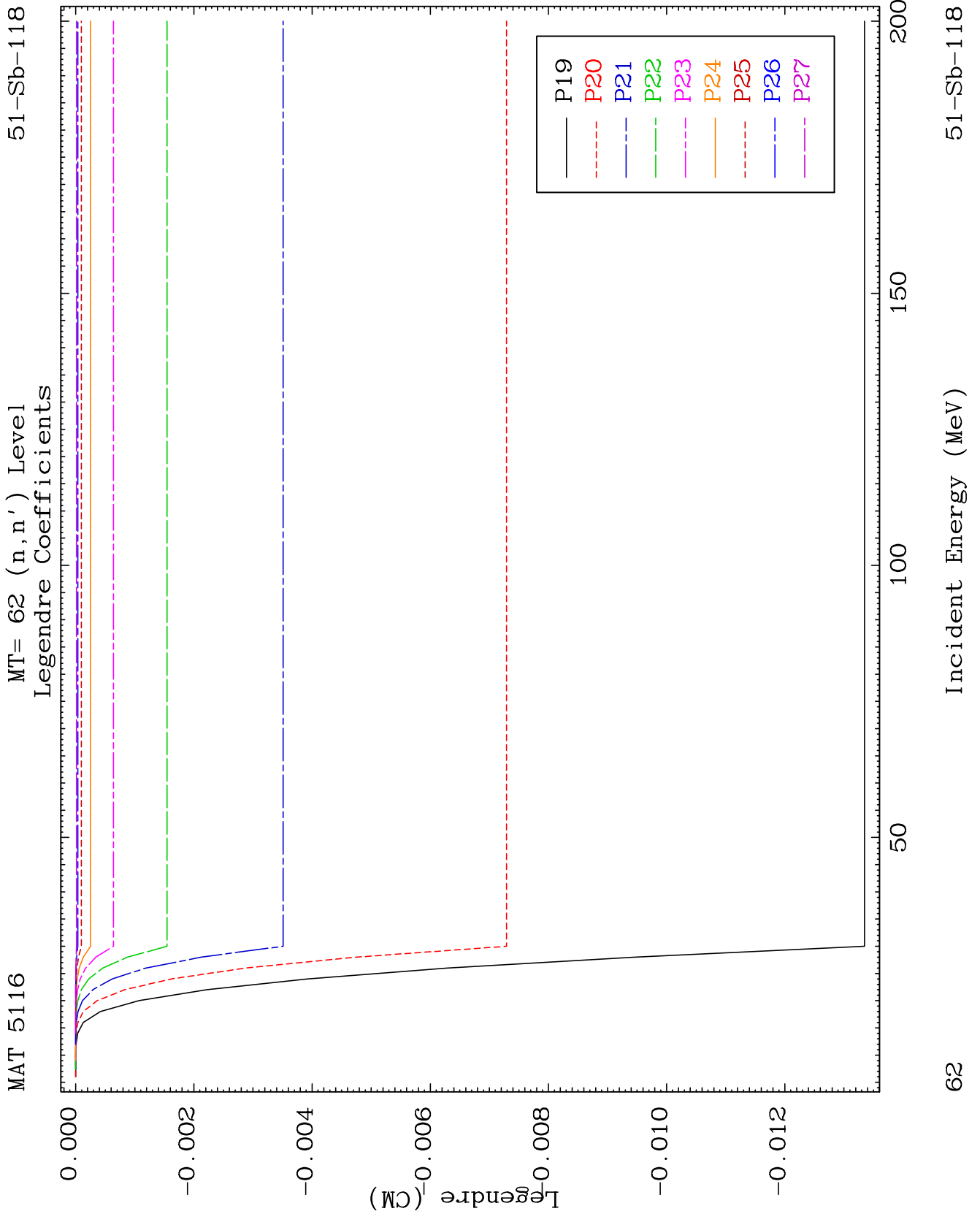
51-Sb-118

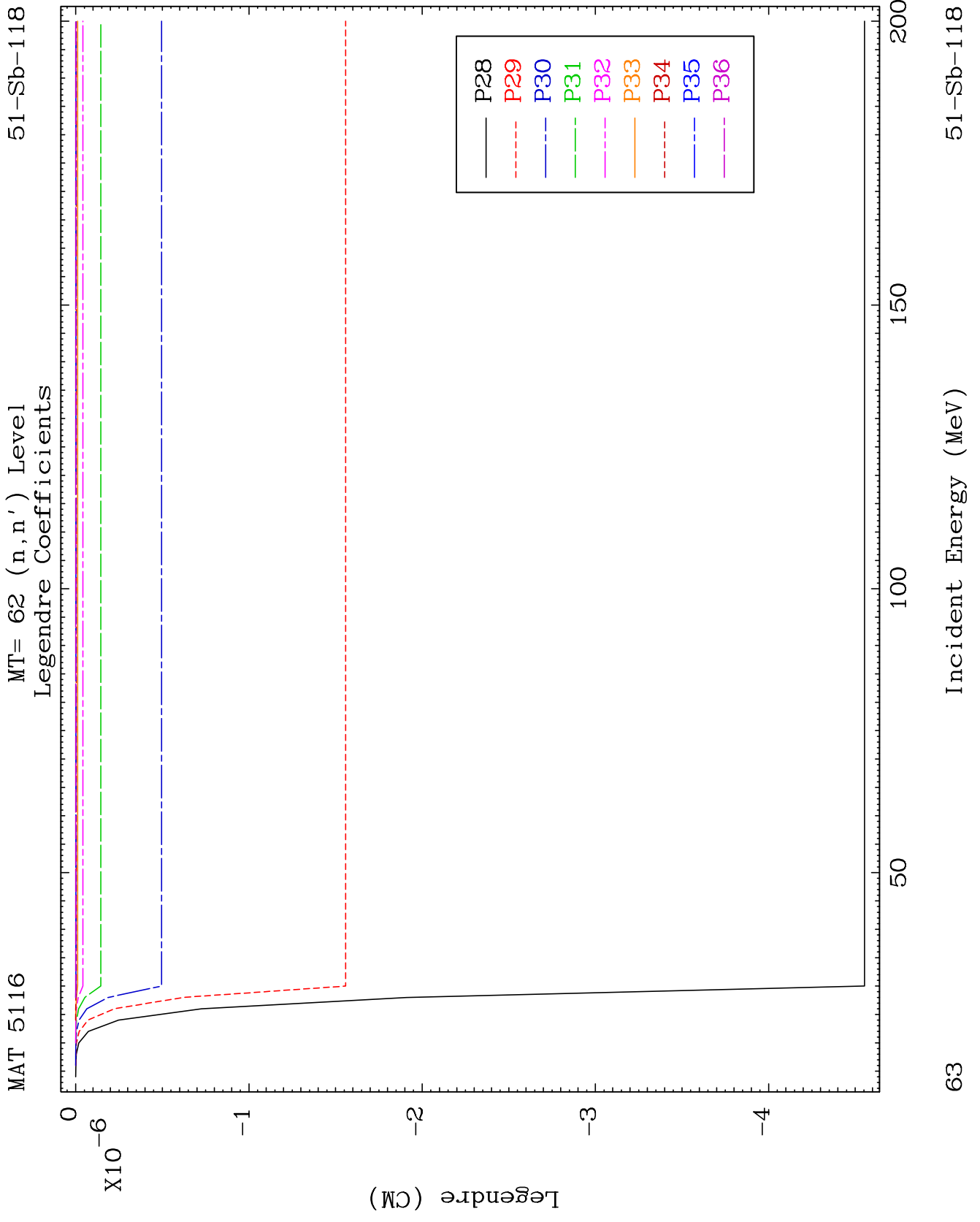


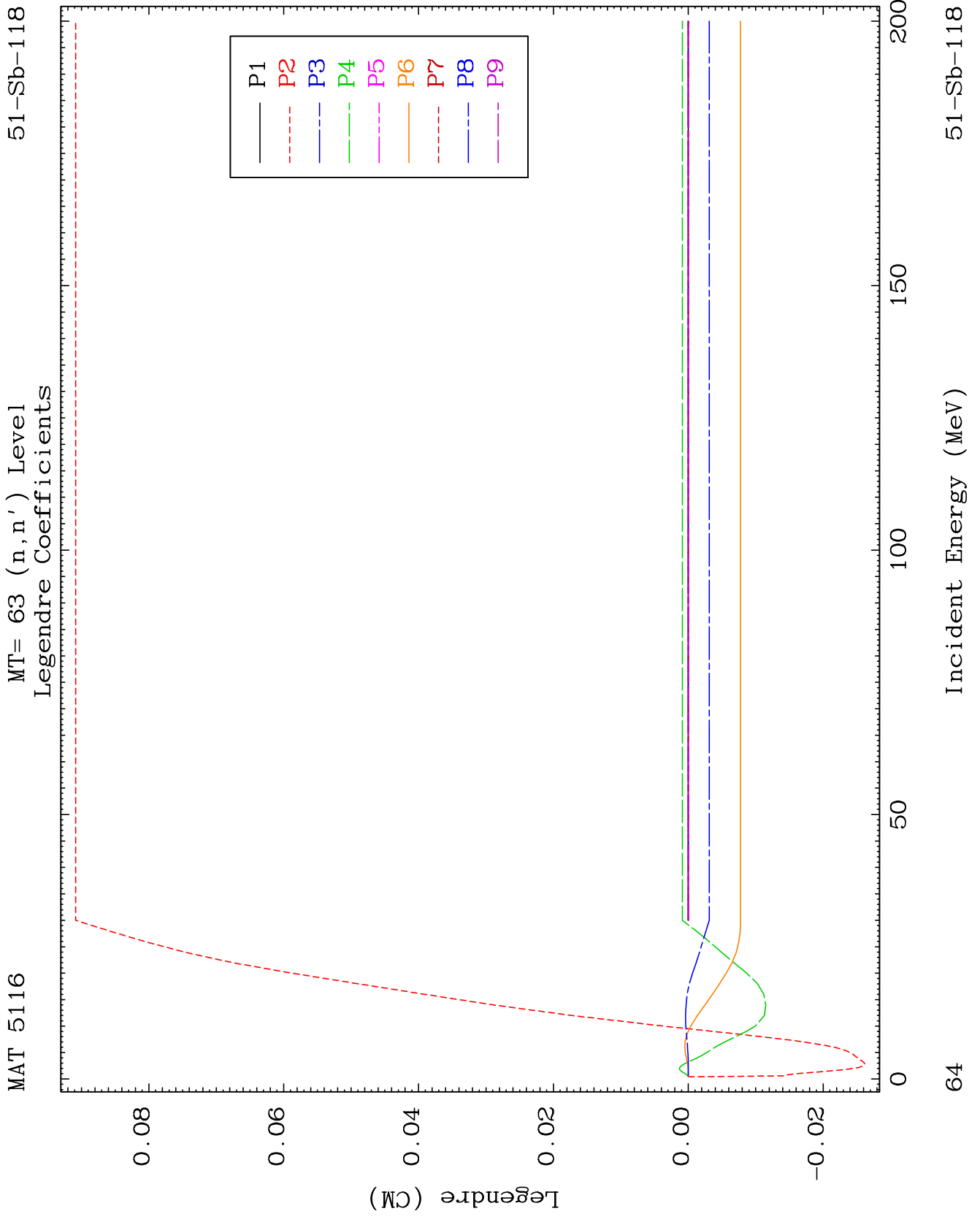
51-Sb-118

Incident Energy (MeV)

61







51-Sb-118

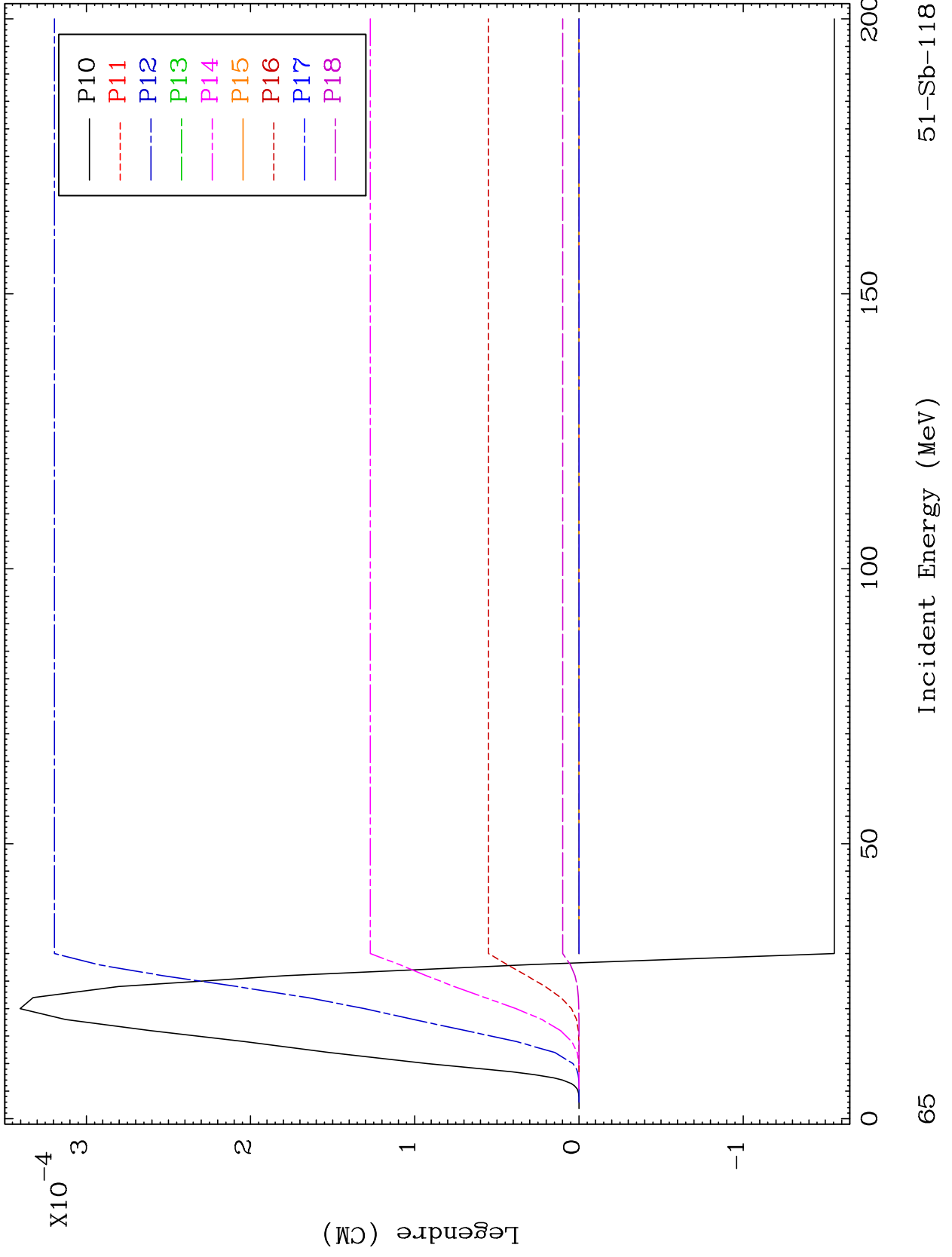
Incident Energy (MeV)

64

MAT 5116

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

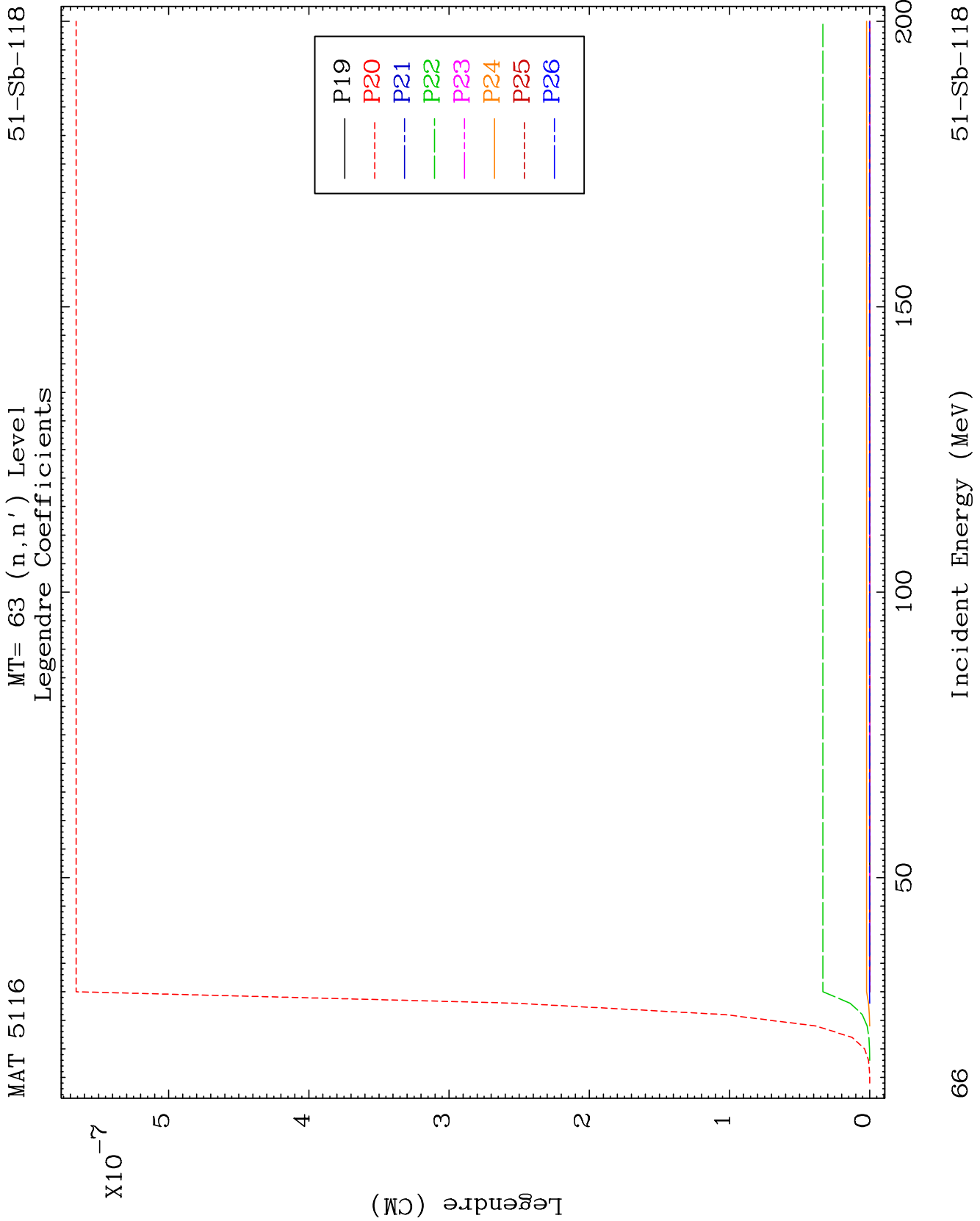
51-Sb-118

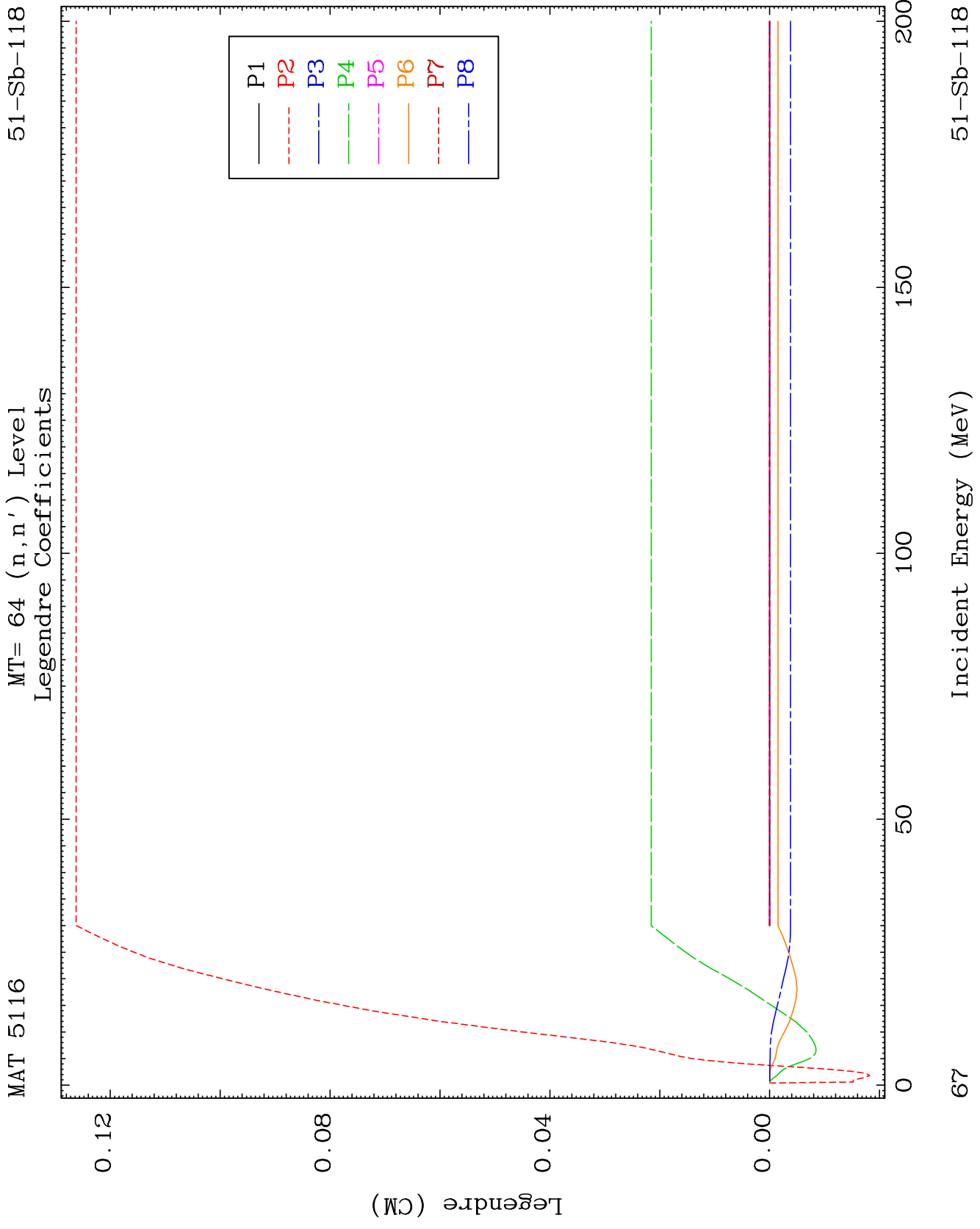


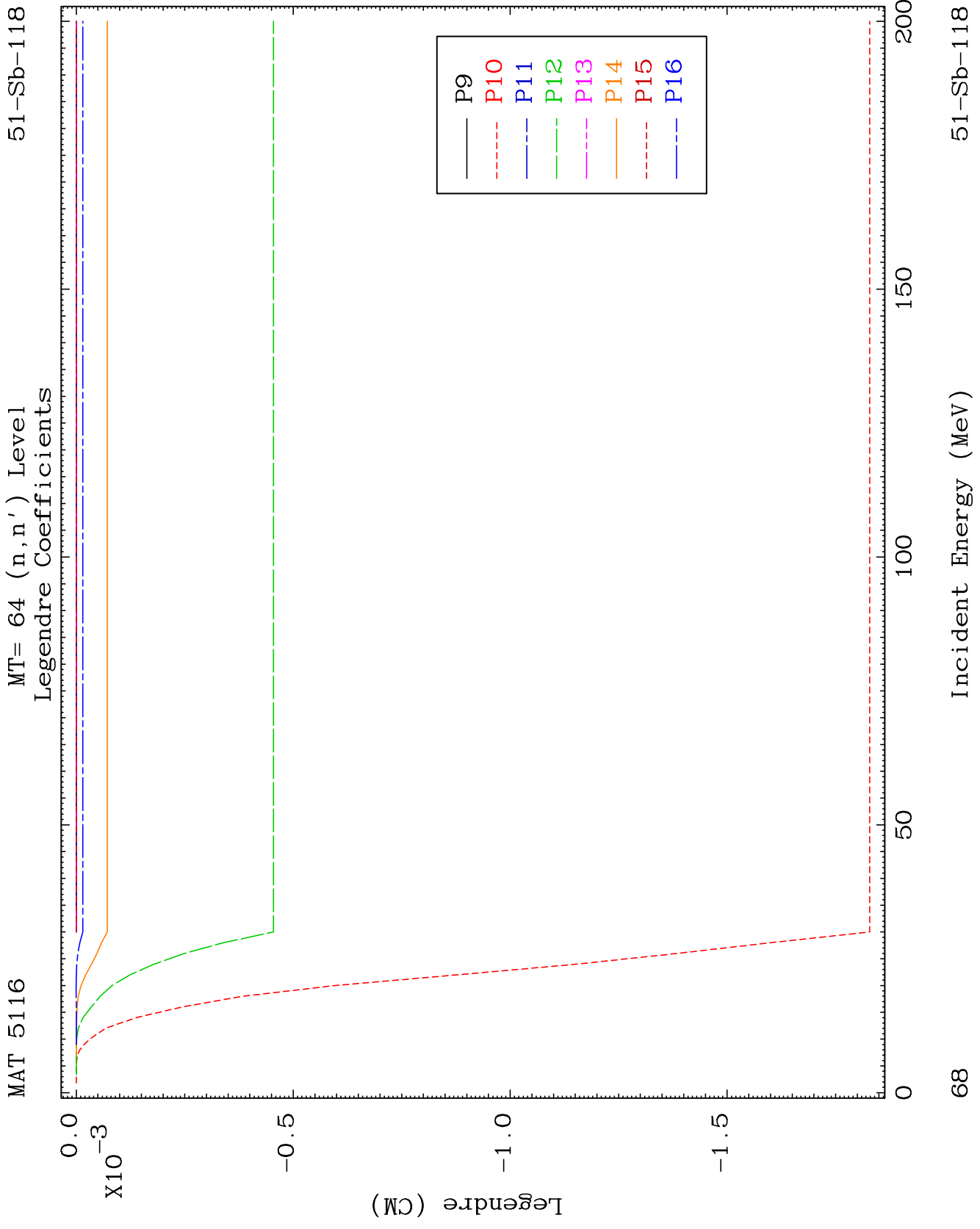
51-Sb-118

Incident Energy (MeV)

65



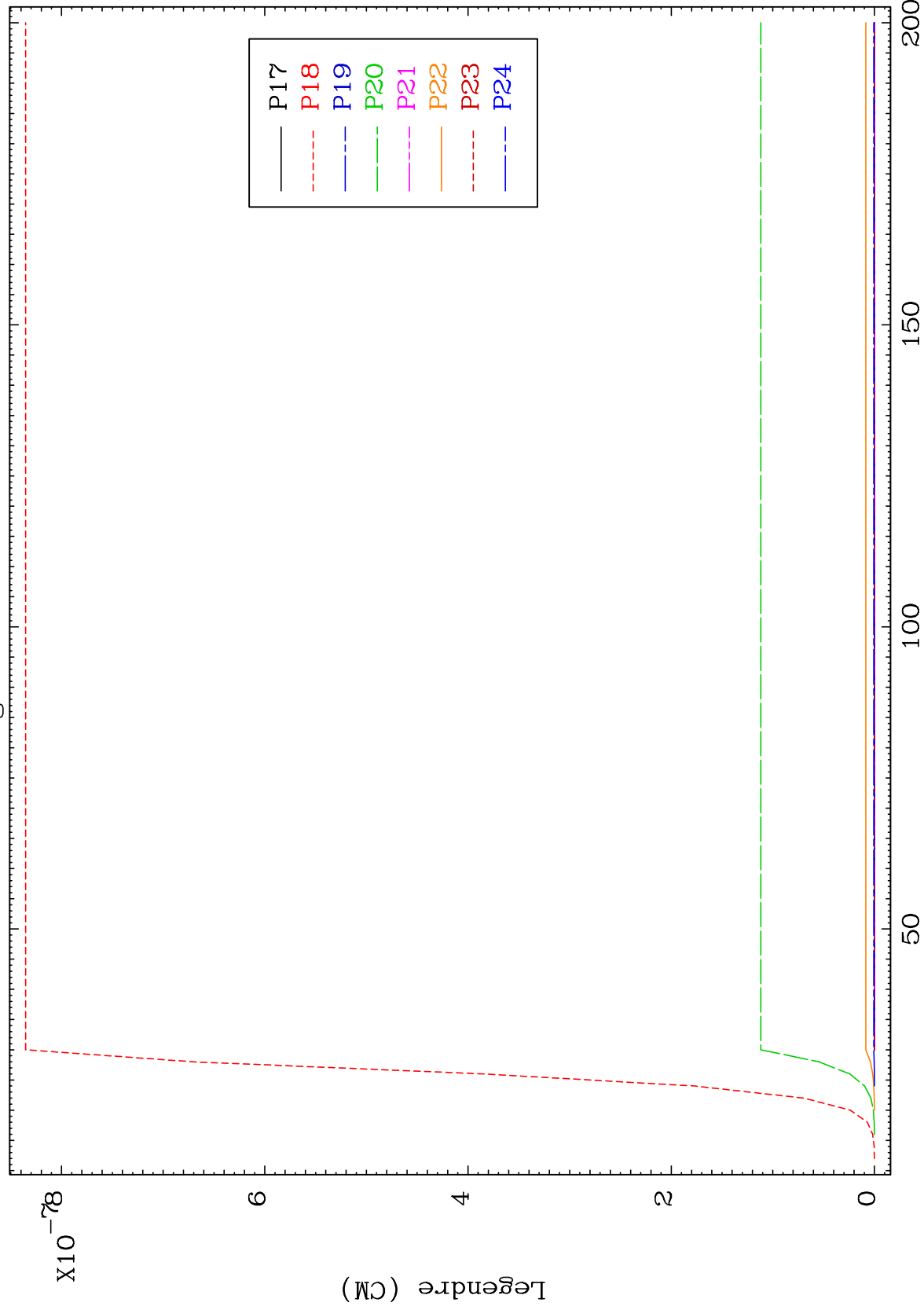




MAT 5116

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

51-Sb-118



51-Sb-118

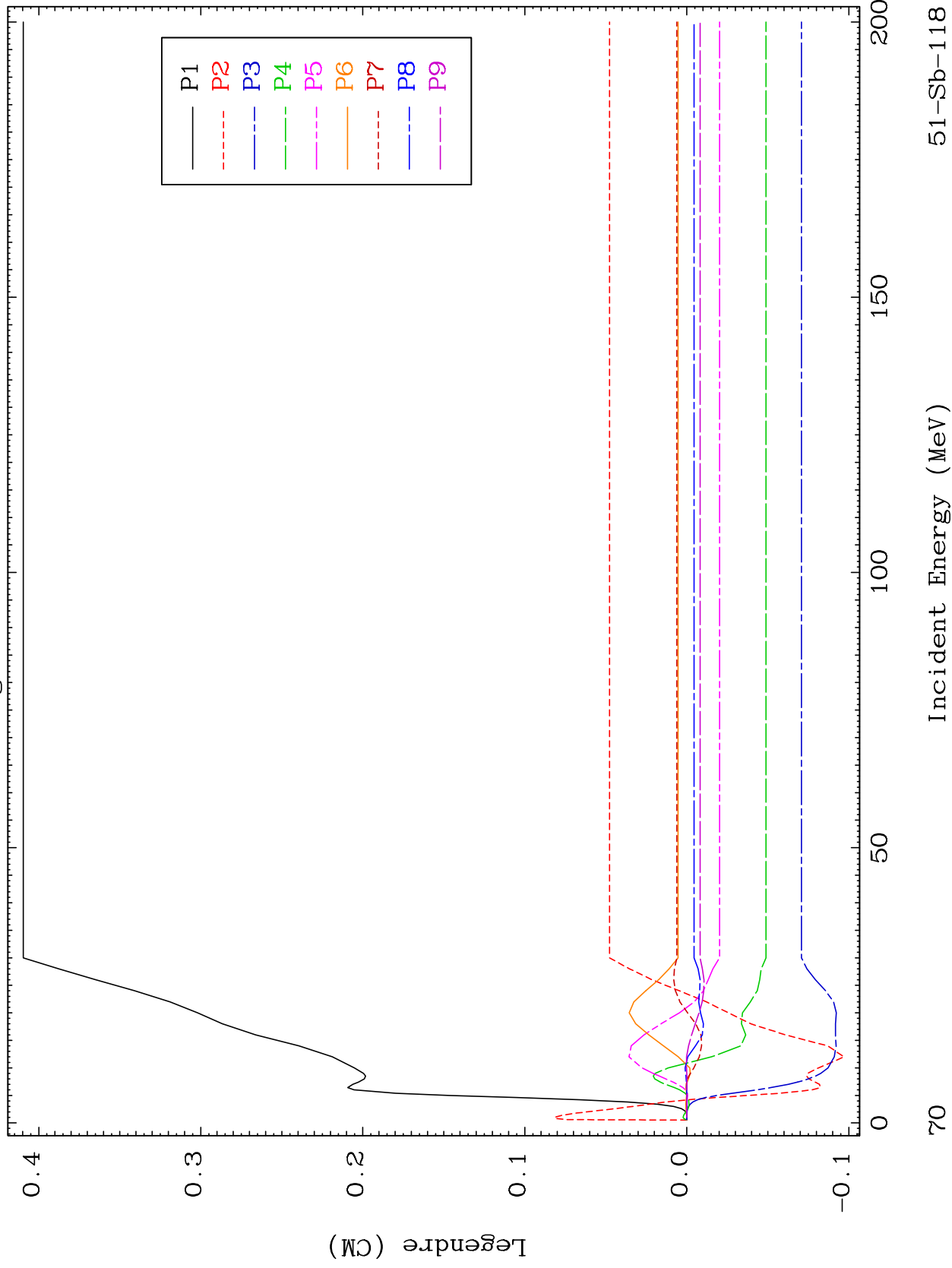
Incident Energy (MeV)

69

MAT 5116

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

51-Sb-118



51-Sb-118

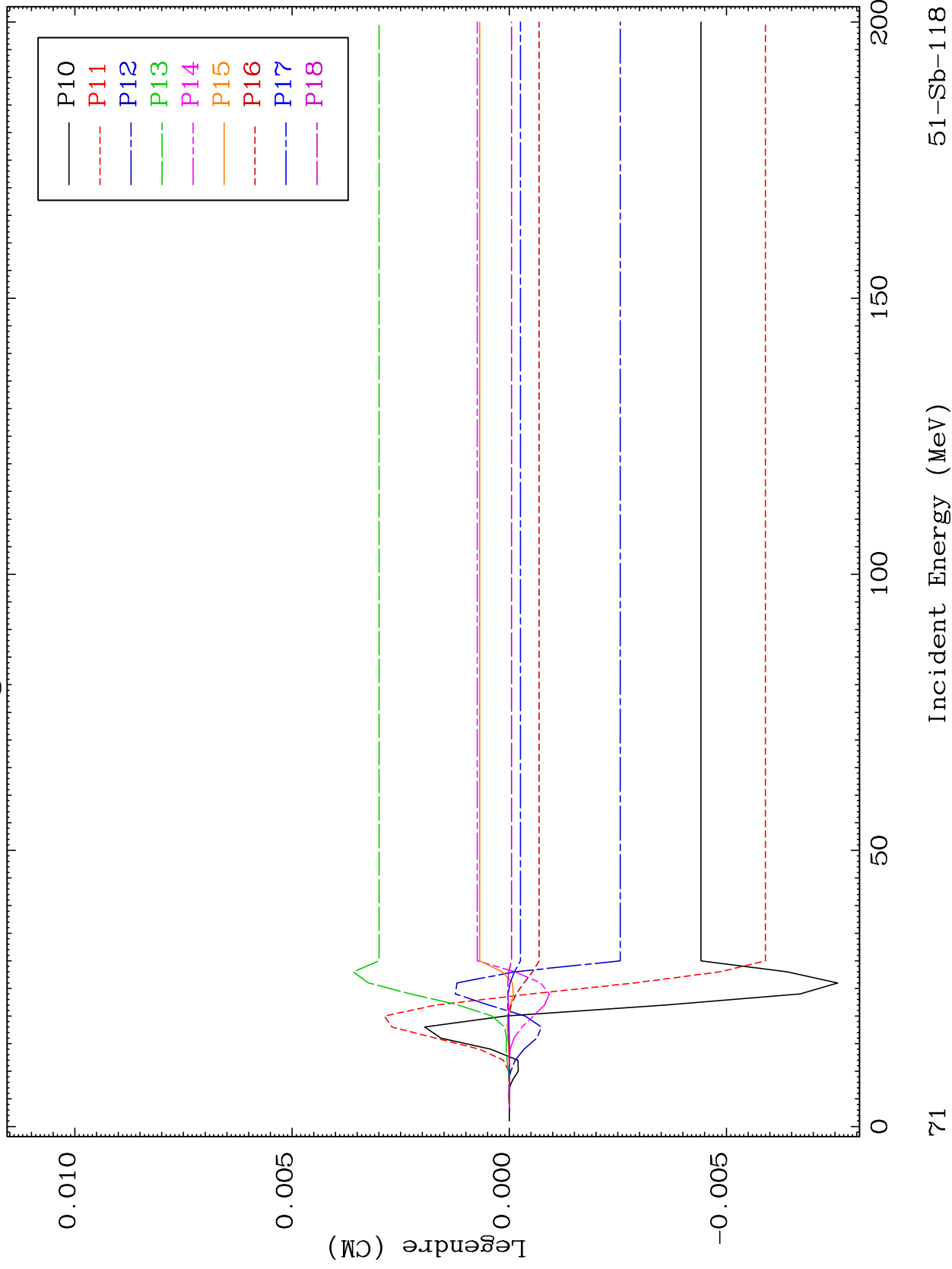
Incident Energy (MeV)

70

MAT 5116

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

51-Sb-118



51-Sb-118

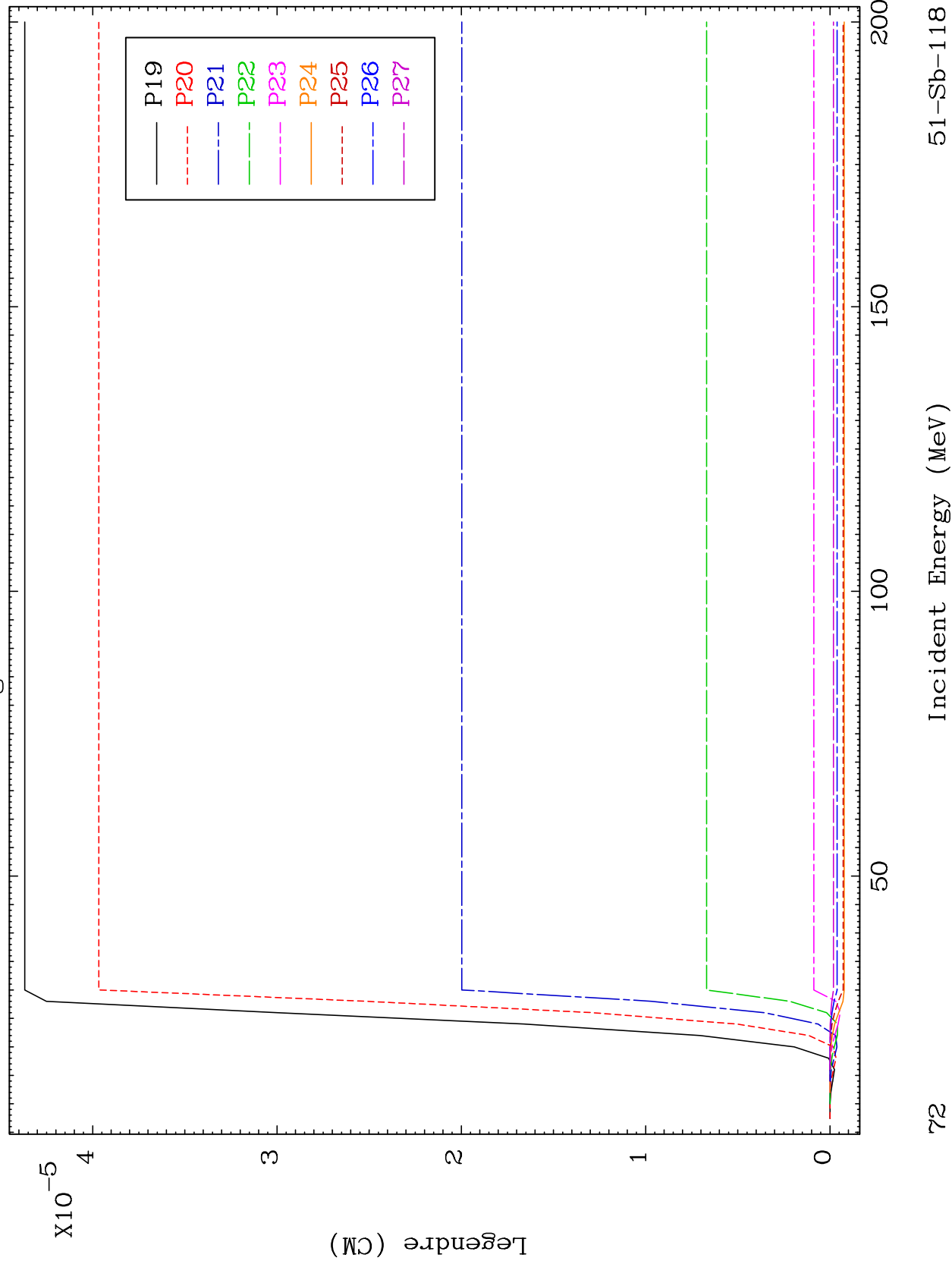
Incident Energy (MeV)

71

MAT 5116

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

51-Sb-118



72

Incident Energy (MeV)

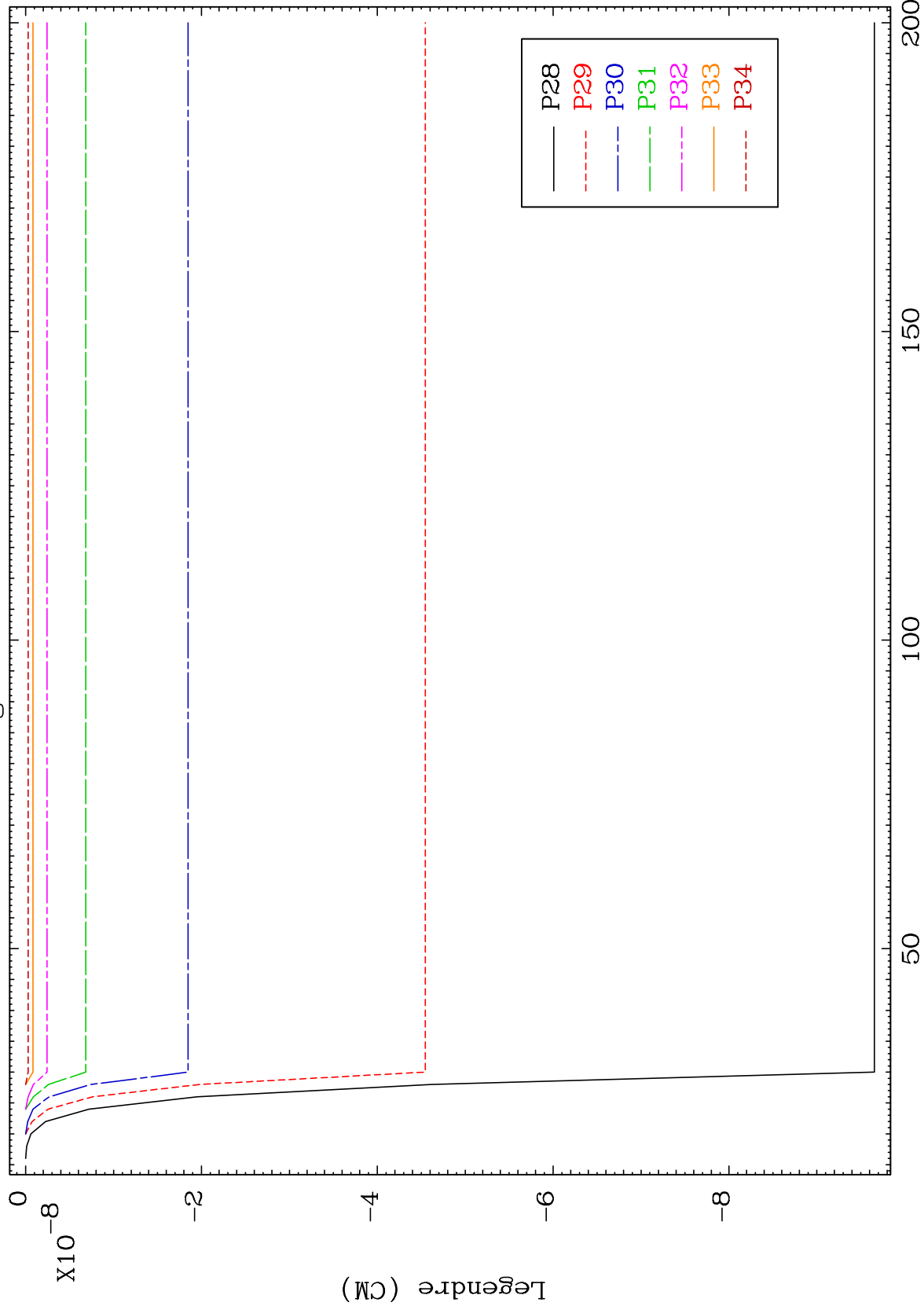
51-Sb-118

MAT 5116

MT= 65 (n,n') Level

51-Sb-118

Legendre Coefficients

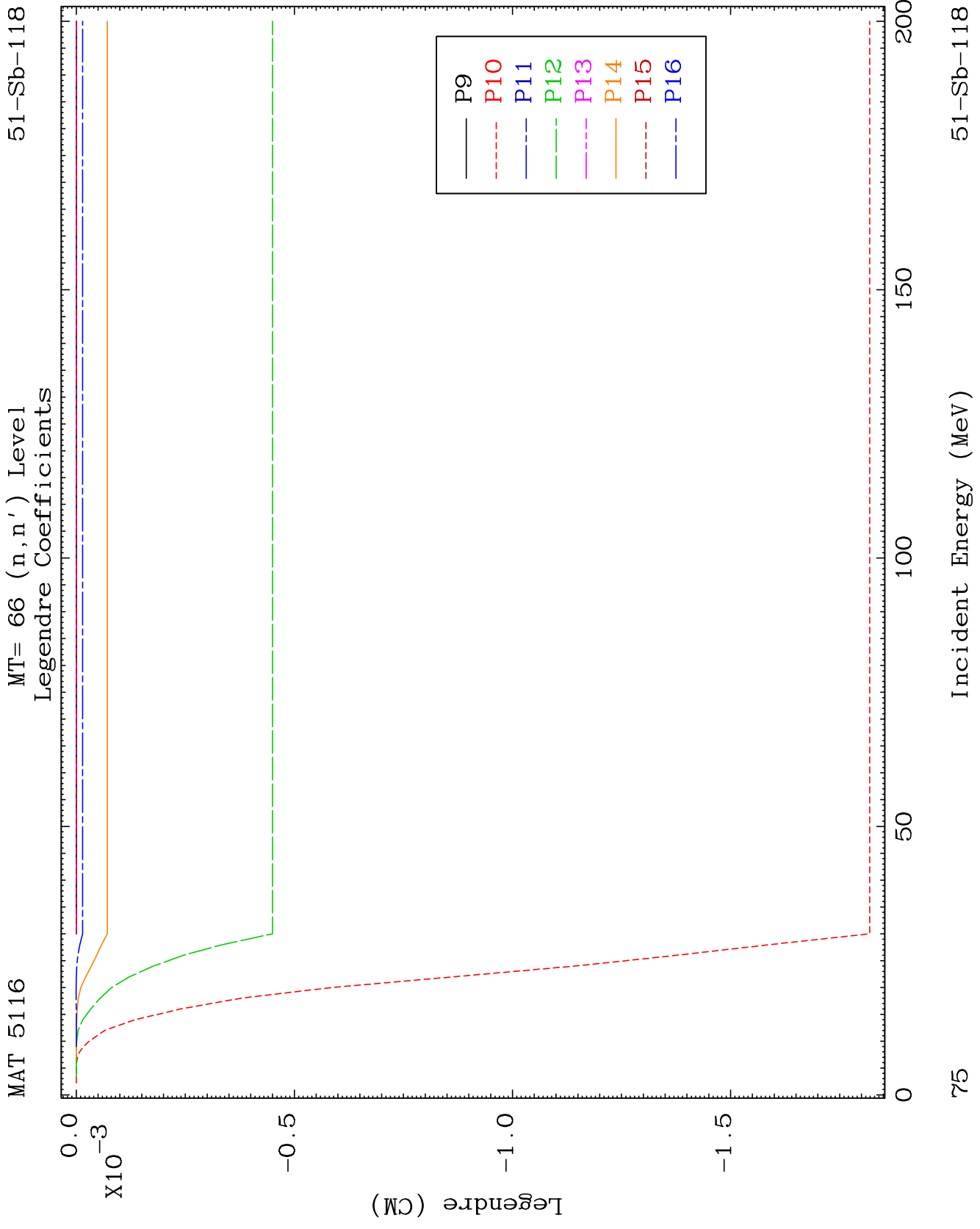


73

Incident Energy (MeV)

51-Sb-118

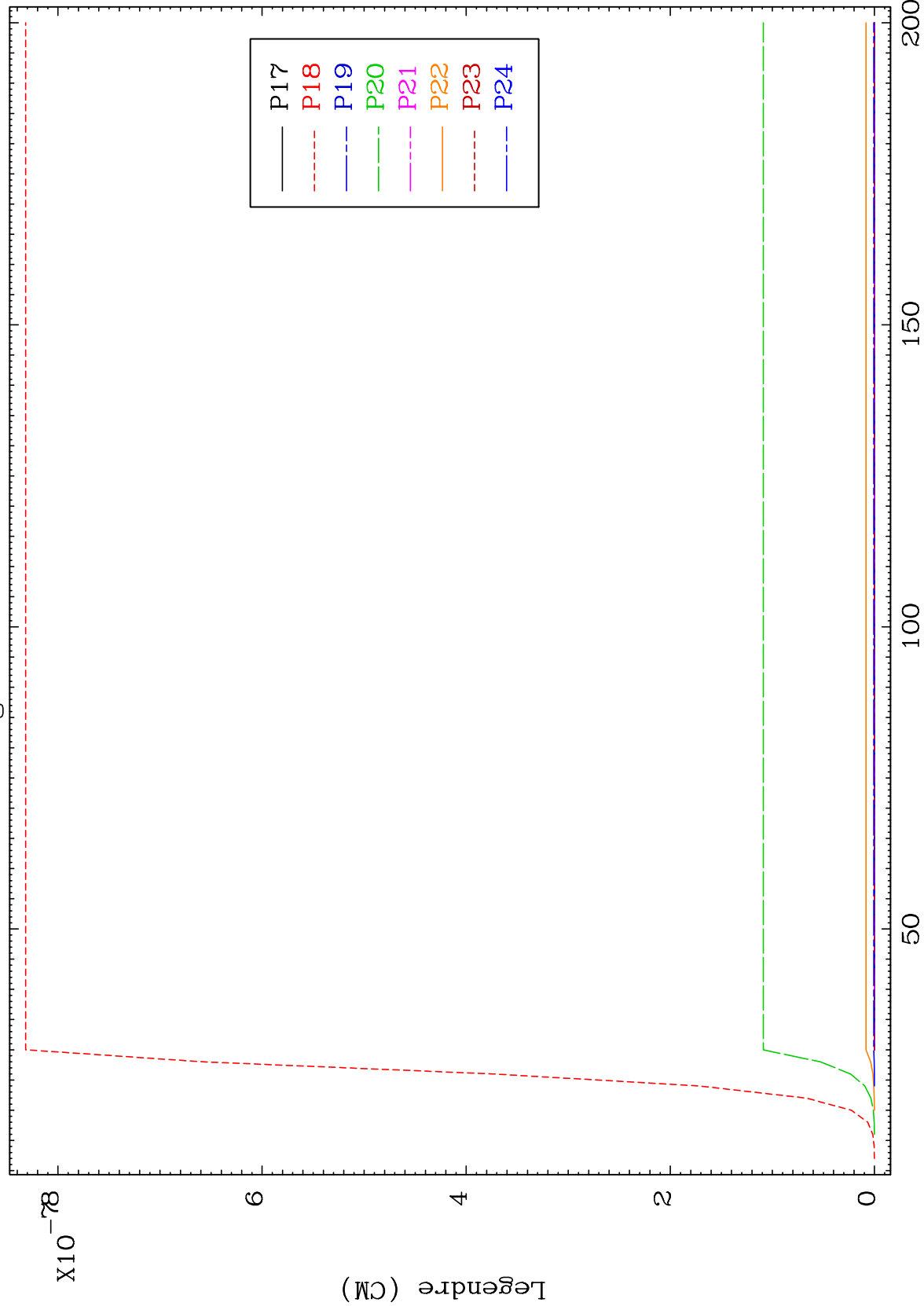




MAT 5116

MT= 66 (n,n') Level  
Legendre Coefficients

51-Sb-118



51-Sb-118

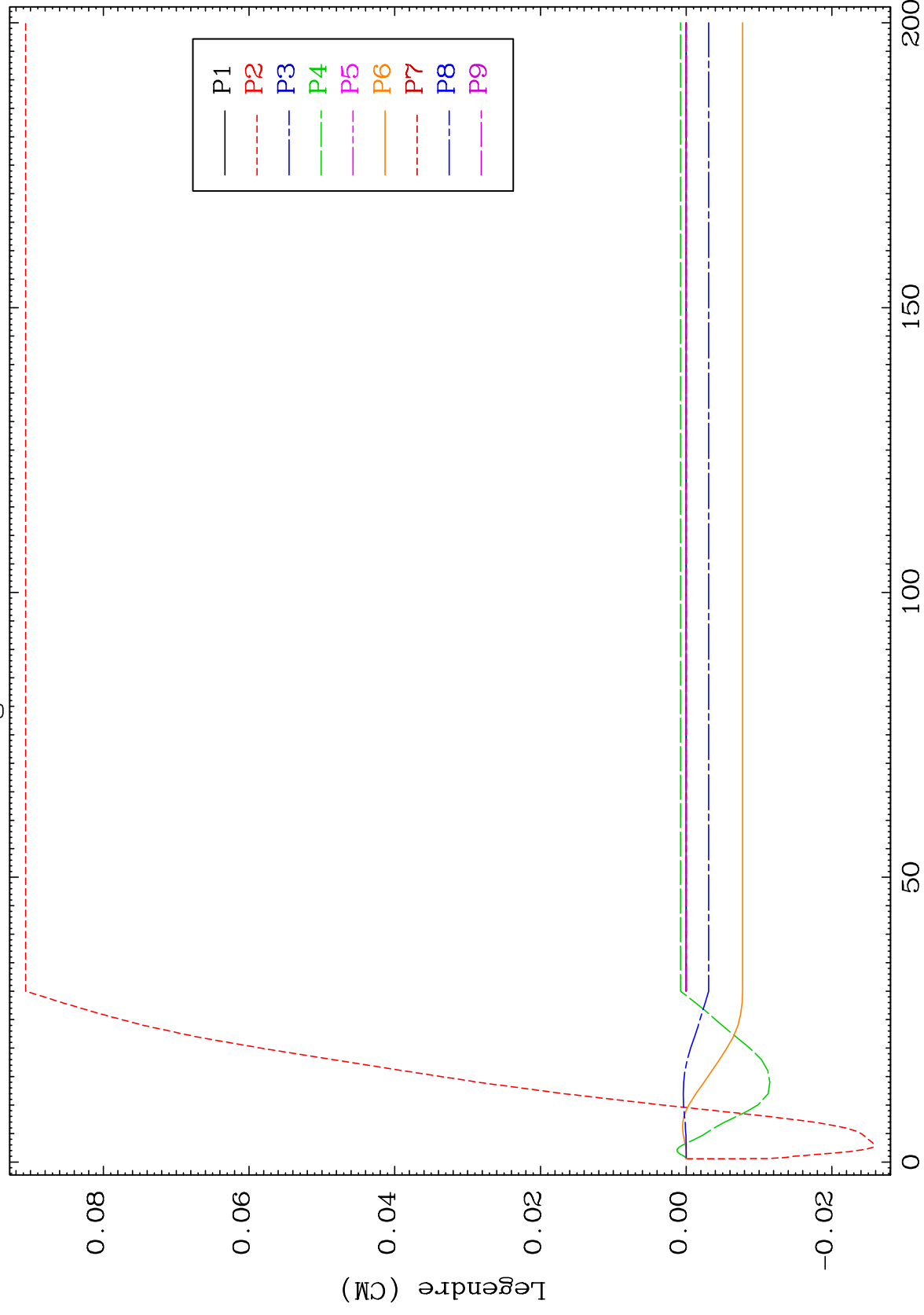
Incident Energy (MeV)

76

MAT 5116

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

51-Sb-118



77

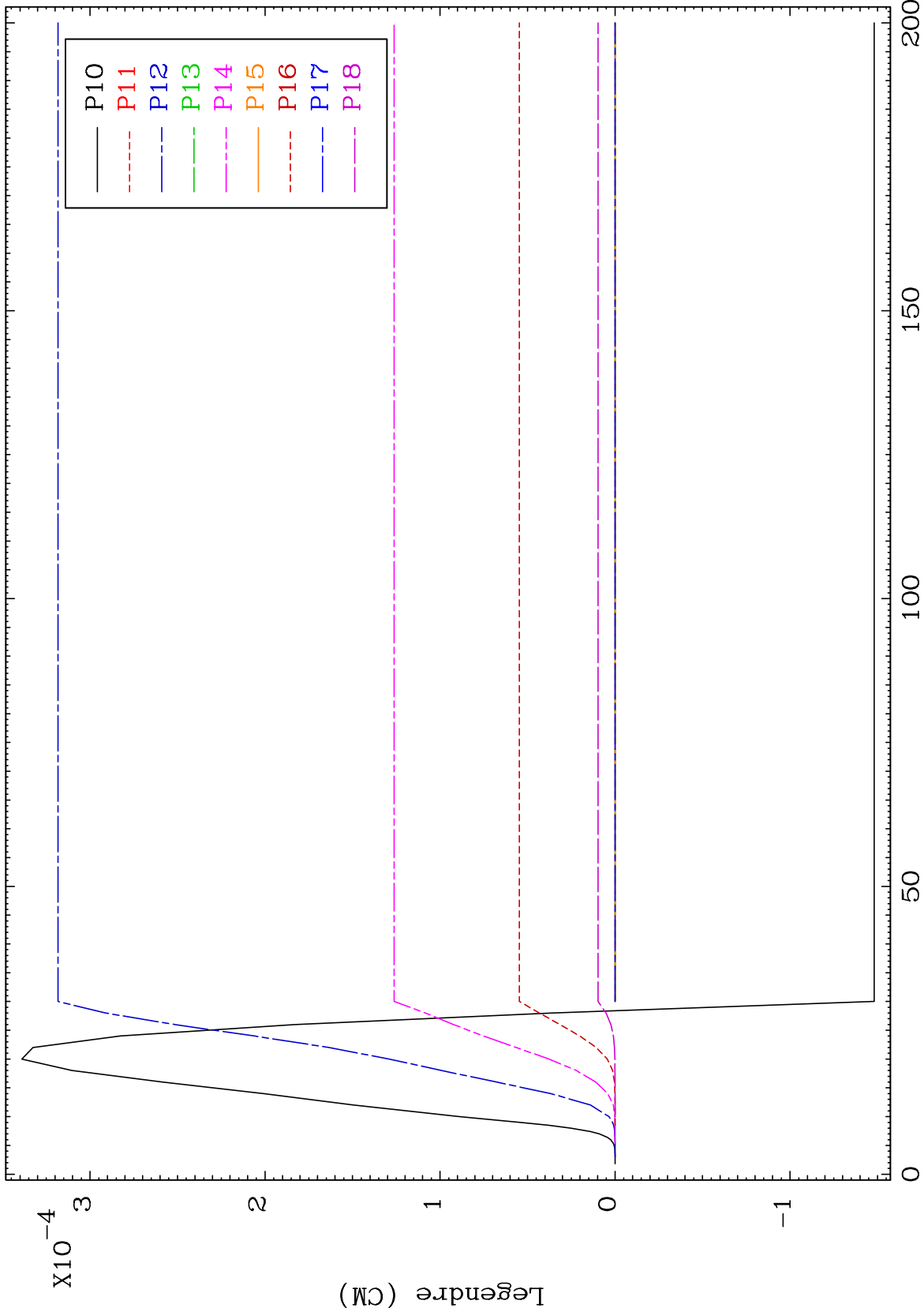
Incident Energy (MeV)

51-Sb-118

MAT 5116

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

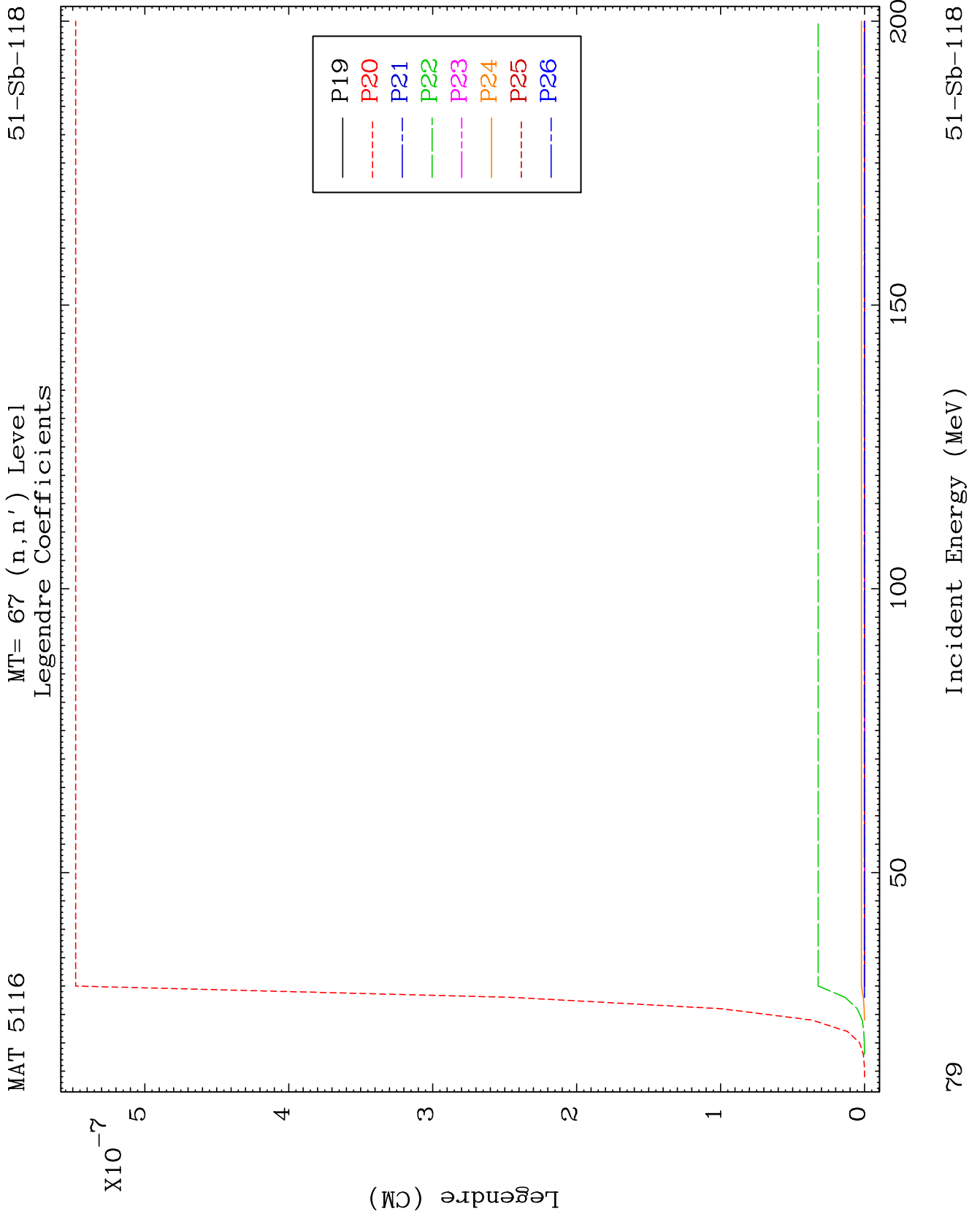
51-Sb-118



78

Incident Energy (MeV)

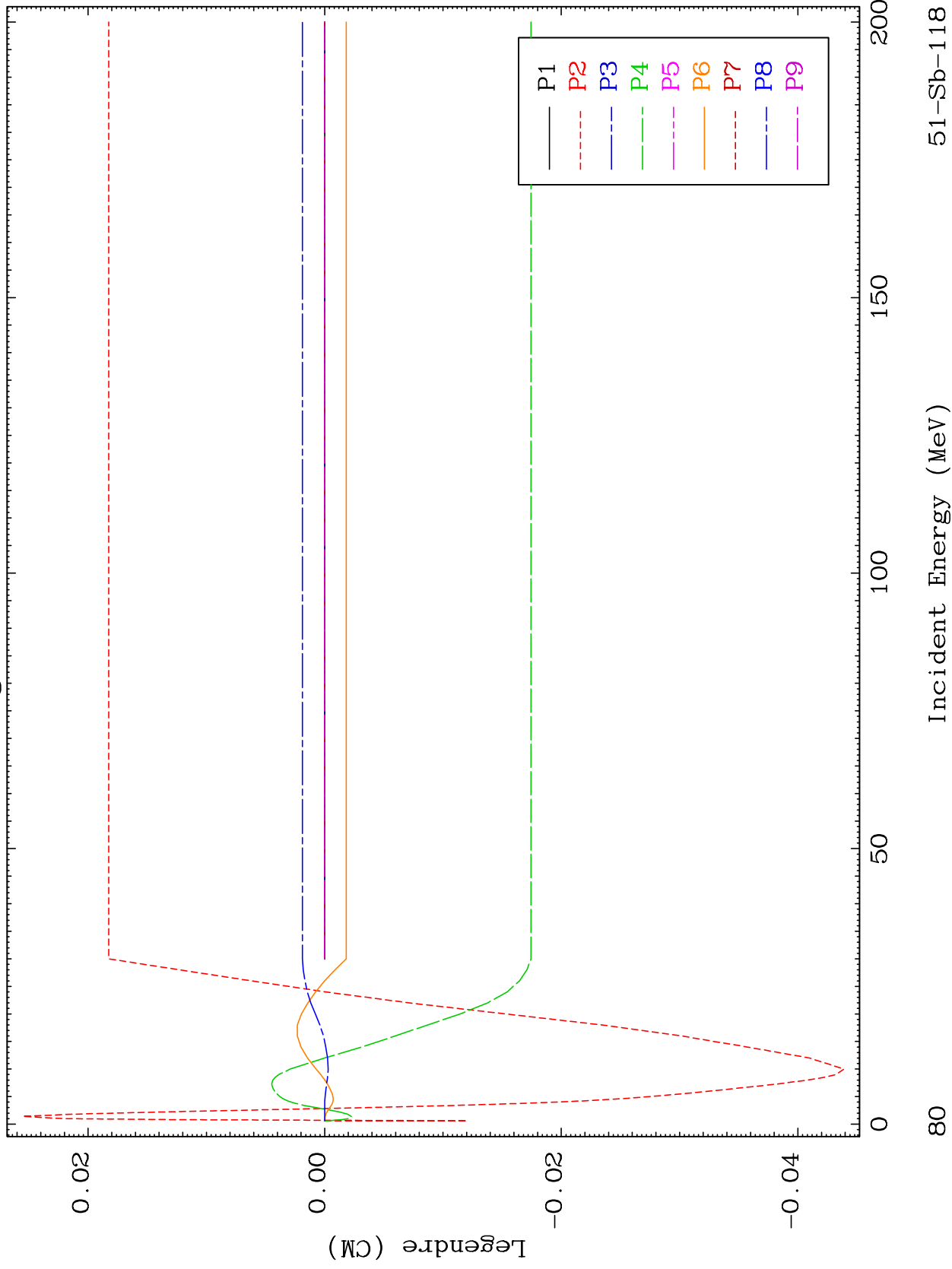
51-Sb-118



MAT 5116

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

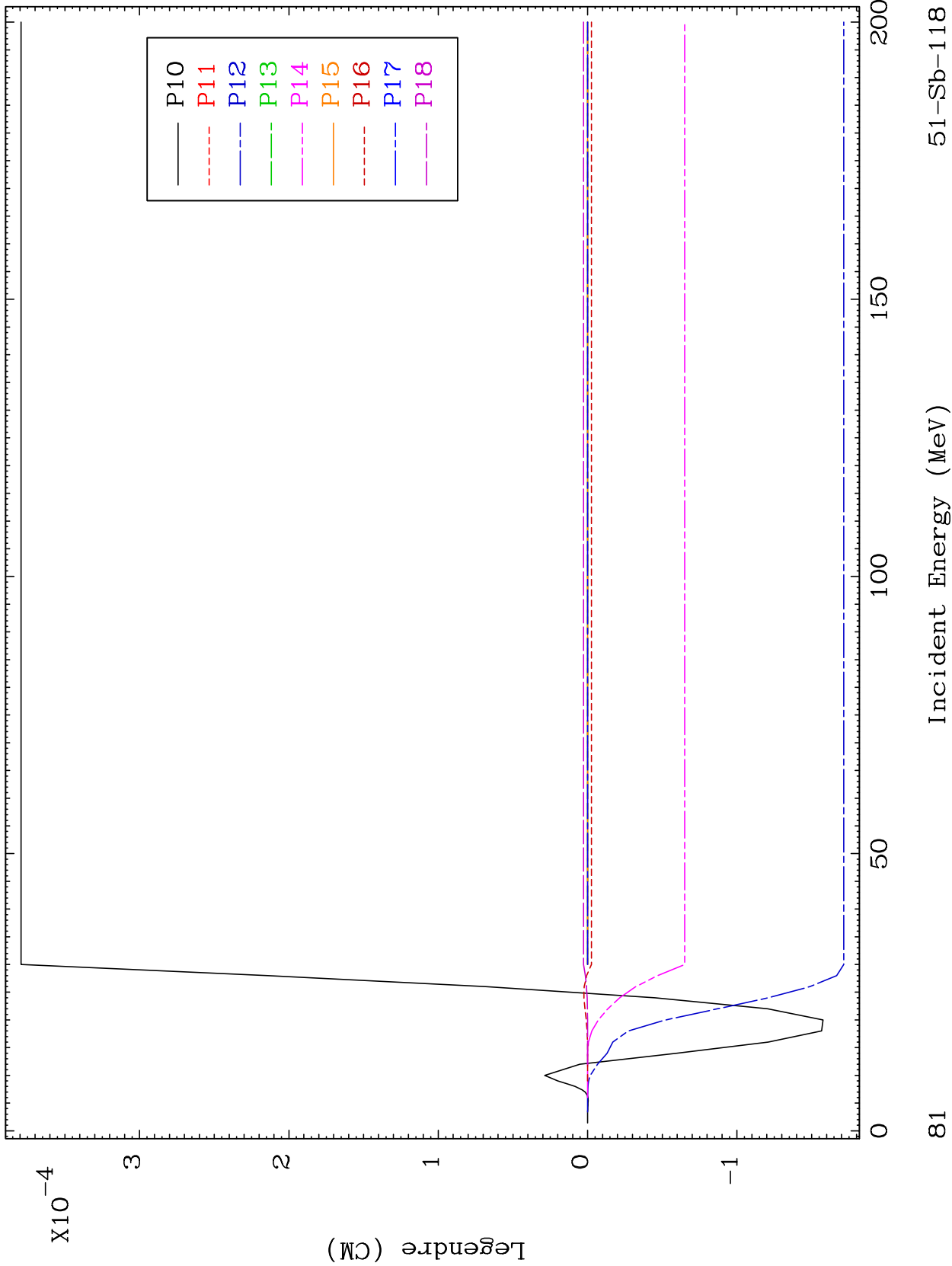
51-Sb-118



MAT 51116

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

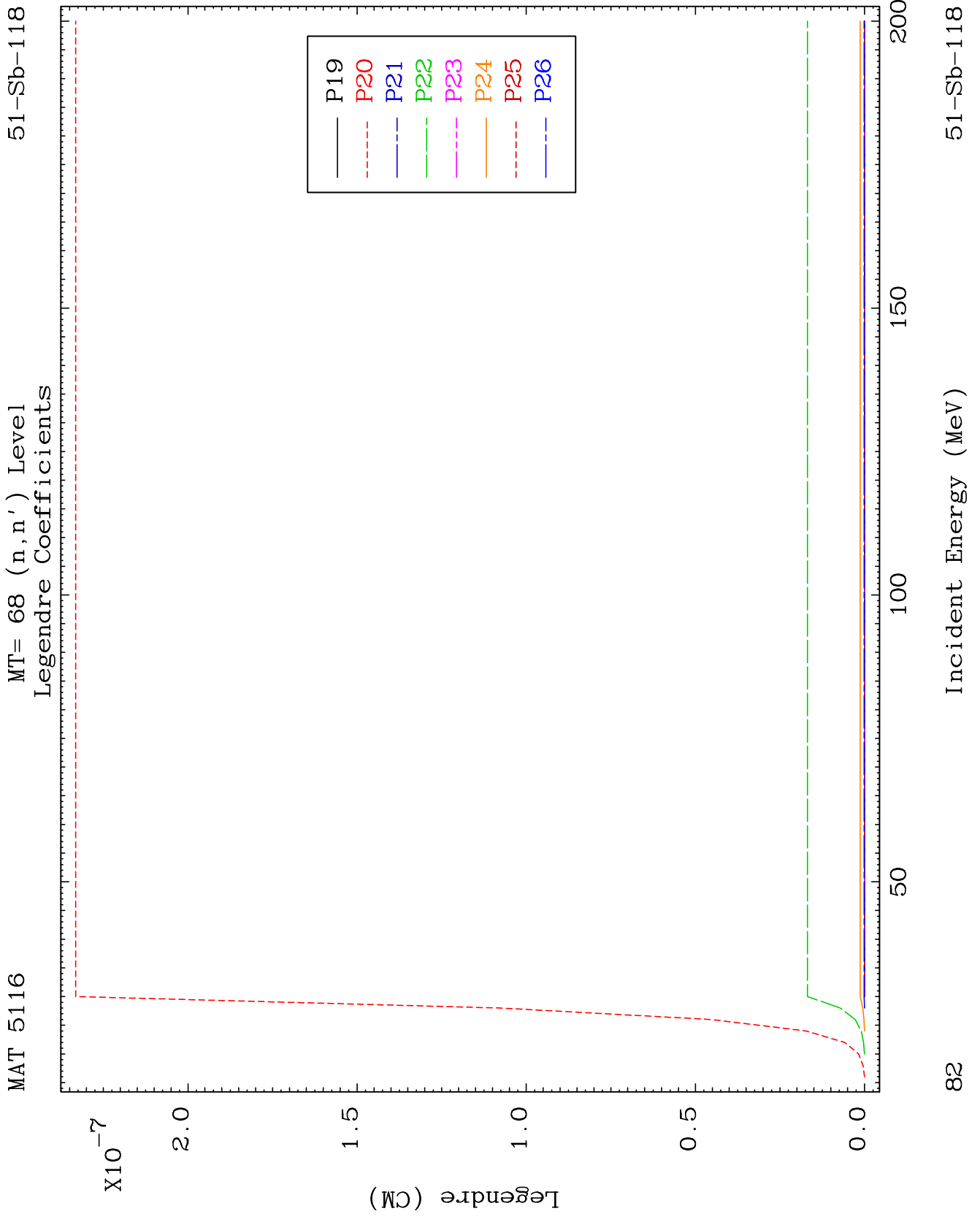
51-Sb-118



51-Sb-118

Incident Energy (MeV)

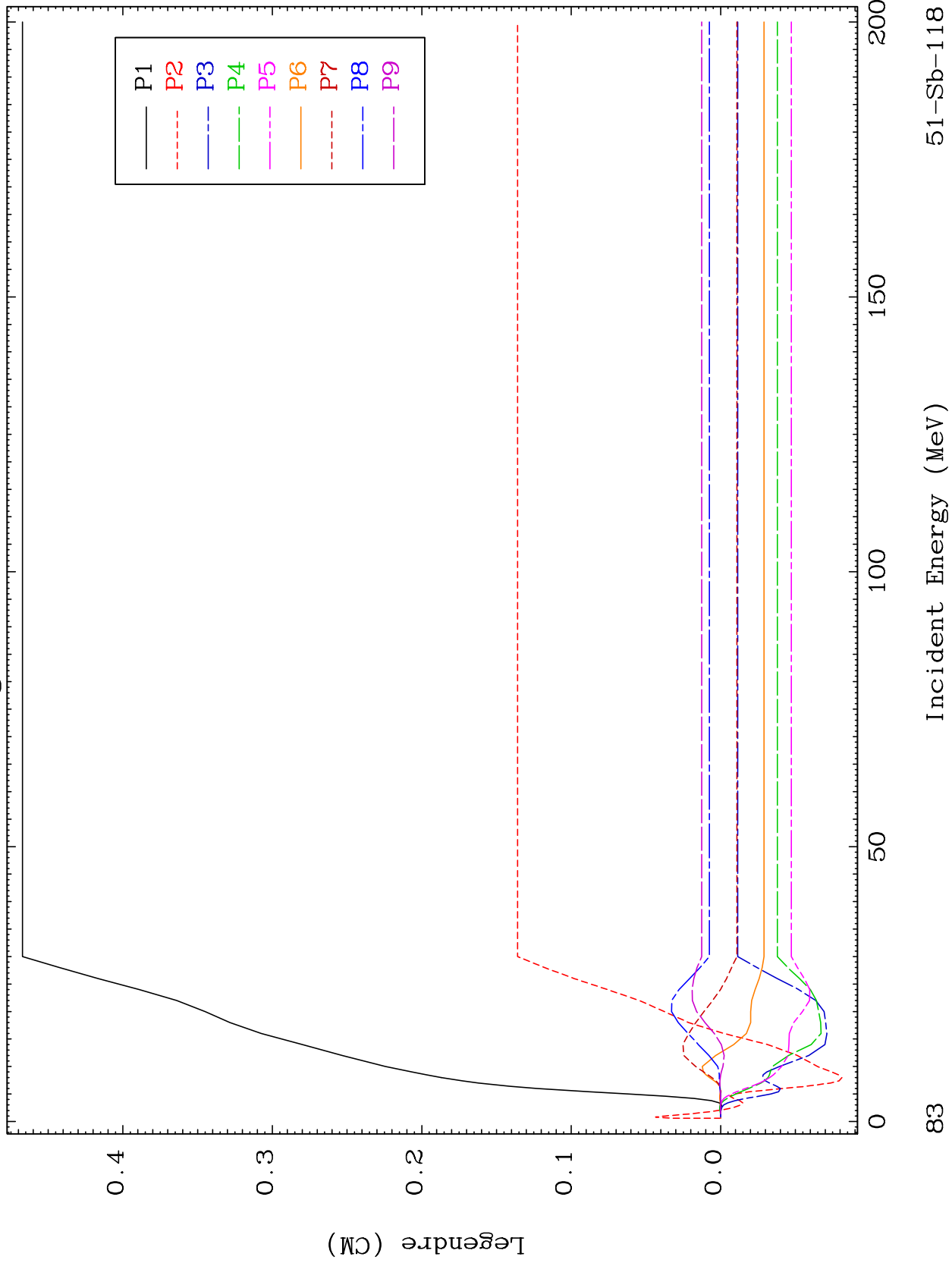
81



MAT 5116

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

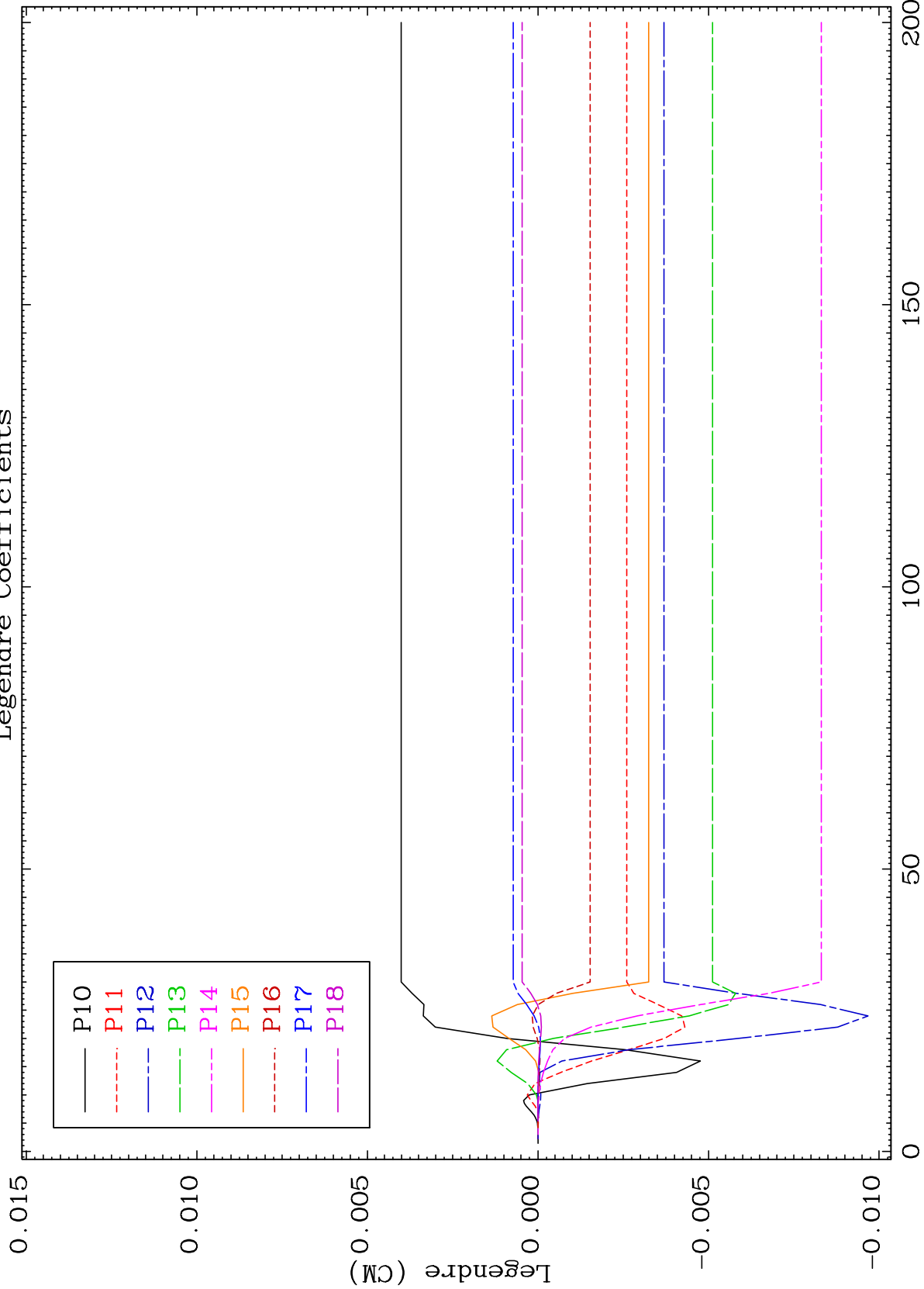
51-Sb-118

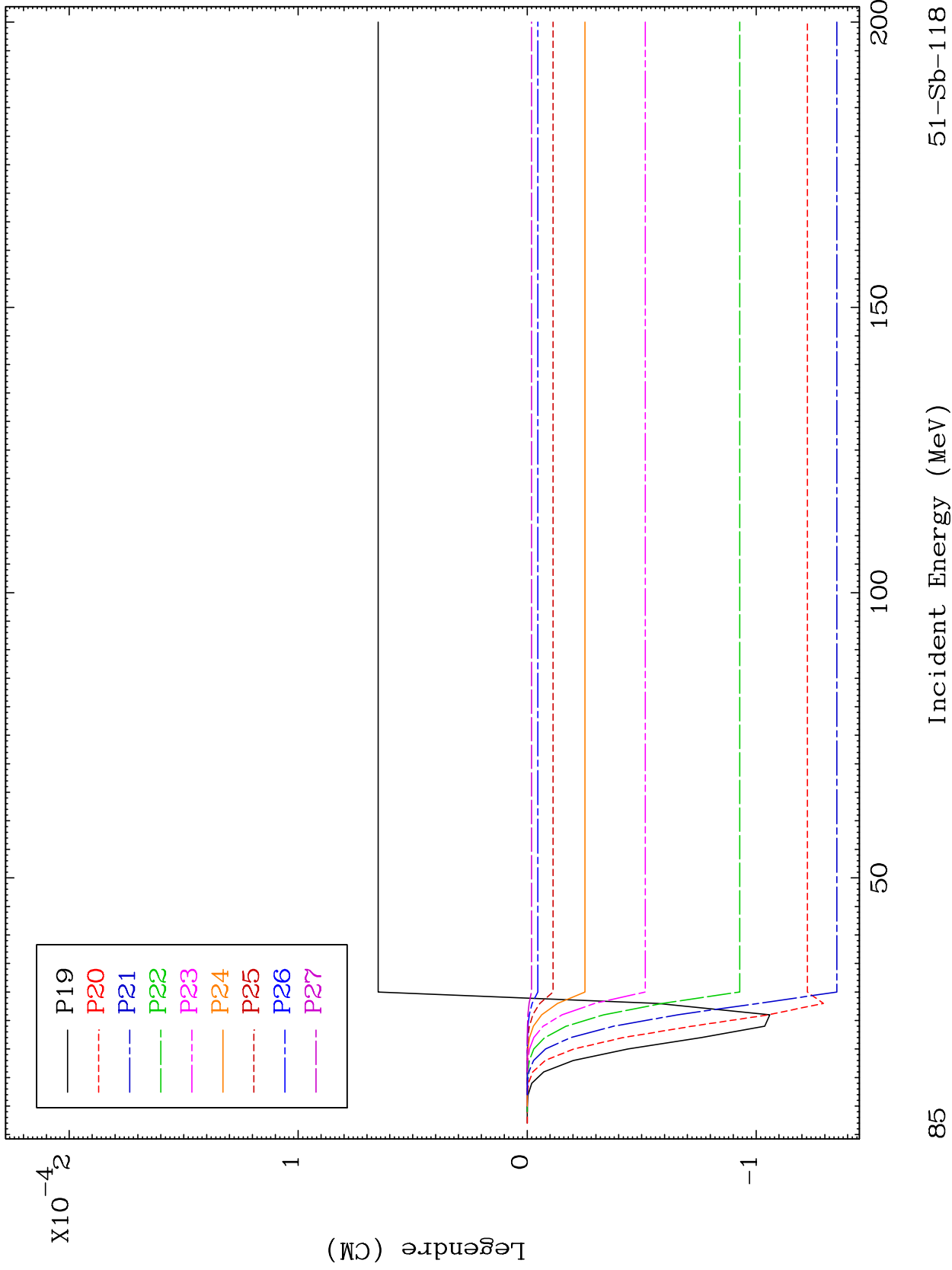


51-Sb-118

Incident Energy (MeV)

83



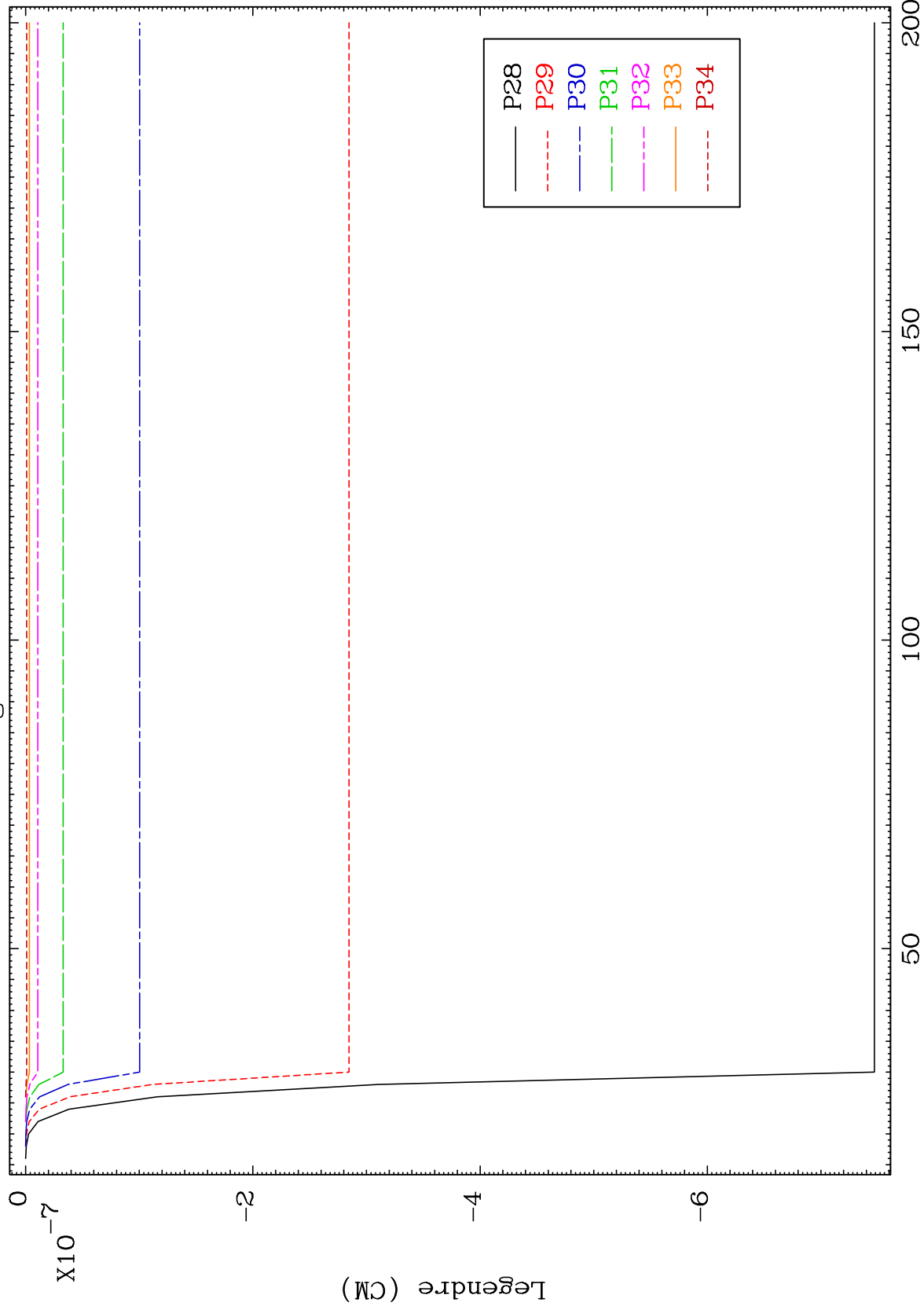


MAT 5116

MT= 69 (n,n') Level

51-Sb-118

Legendre Coefficients



86

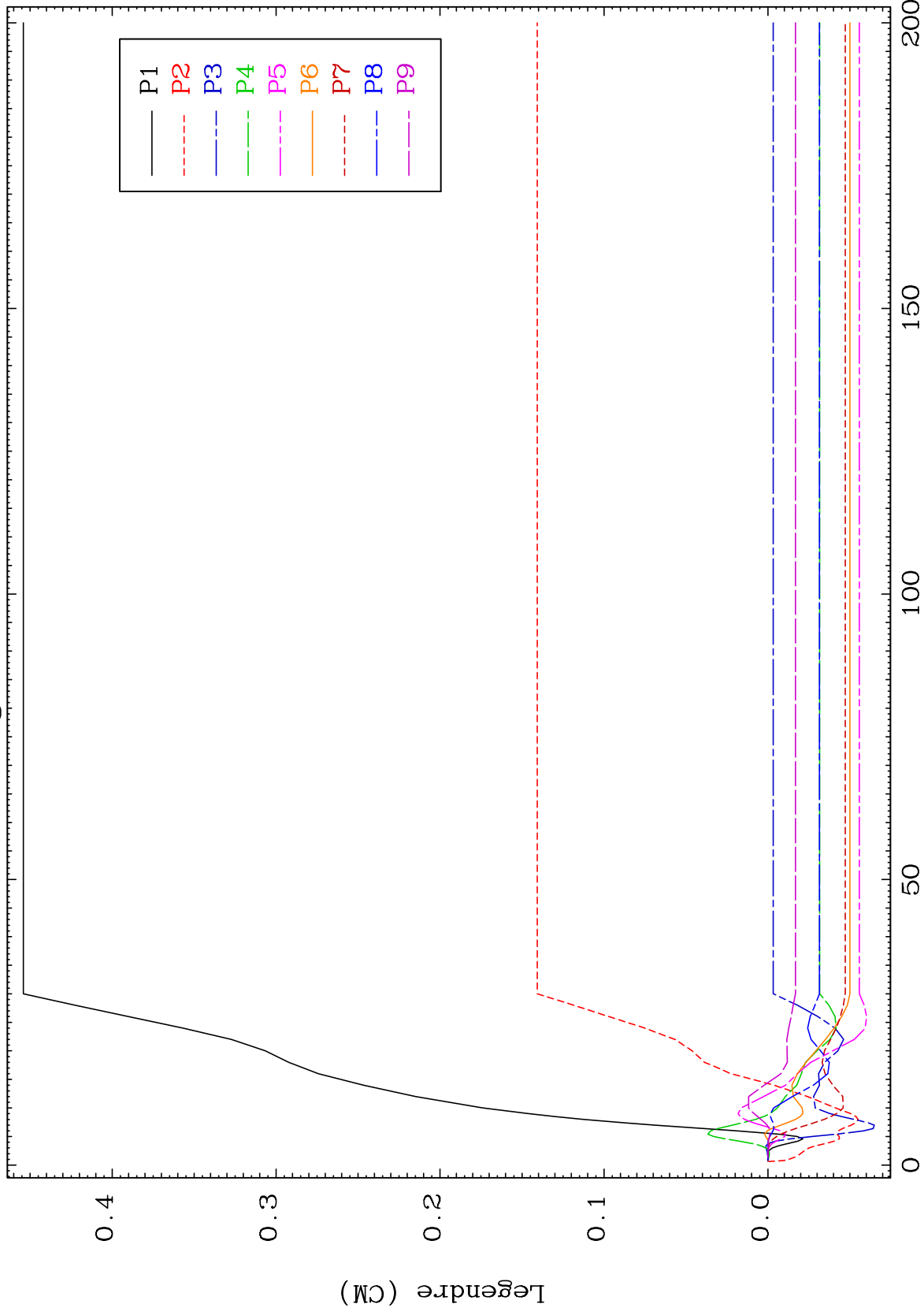
Incident Energy (MeV)

51-Sb-118

MAT 5116

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

51-Sb-118



87

Incident Energy (MeV)

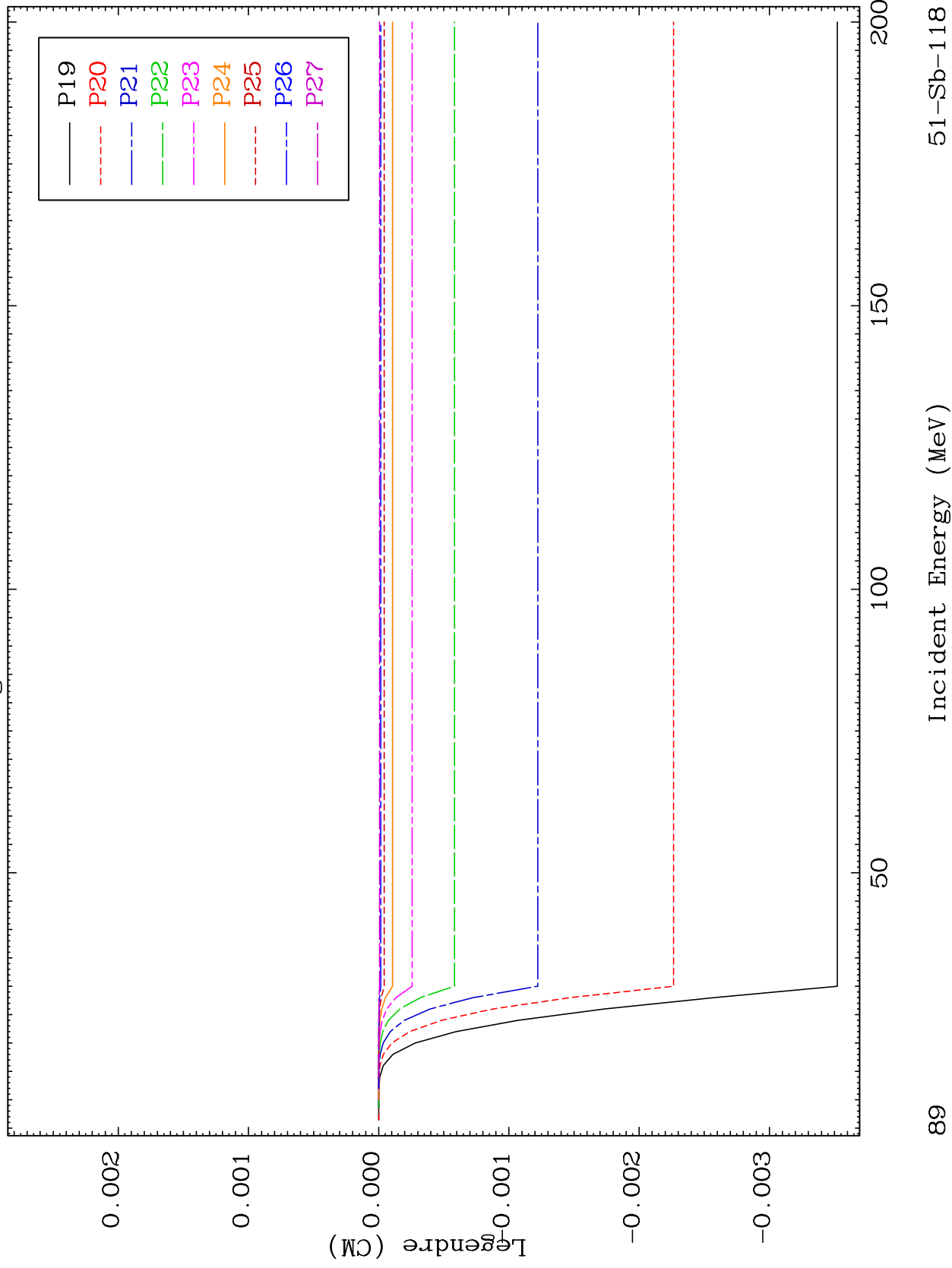
51-Sb-118



MAT 5116

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

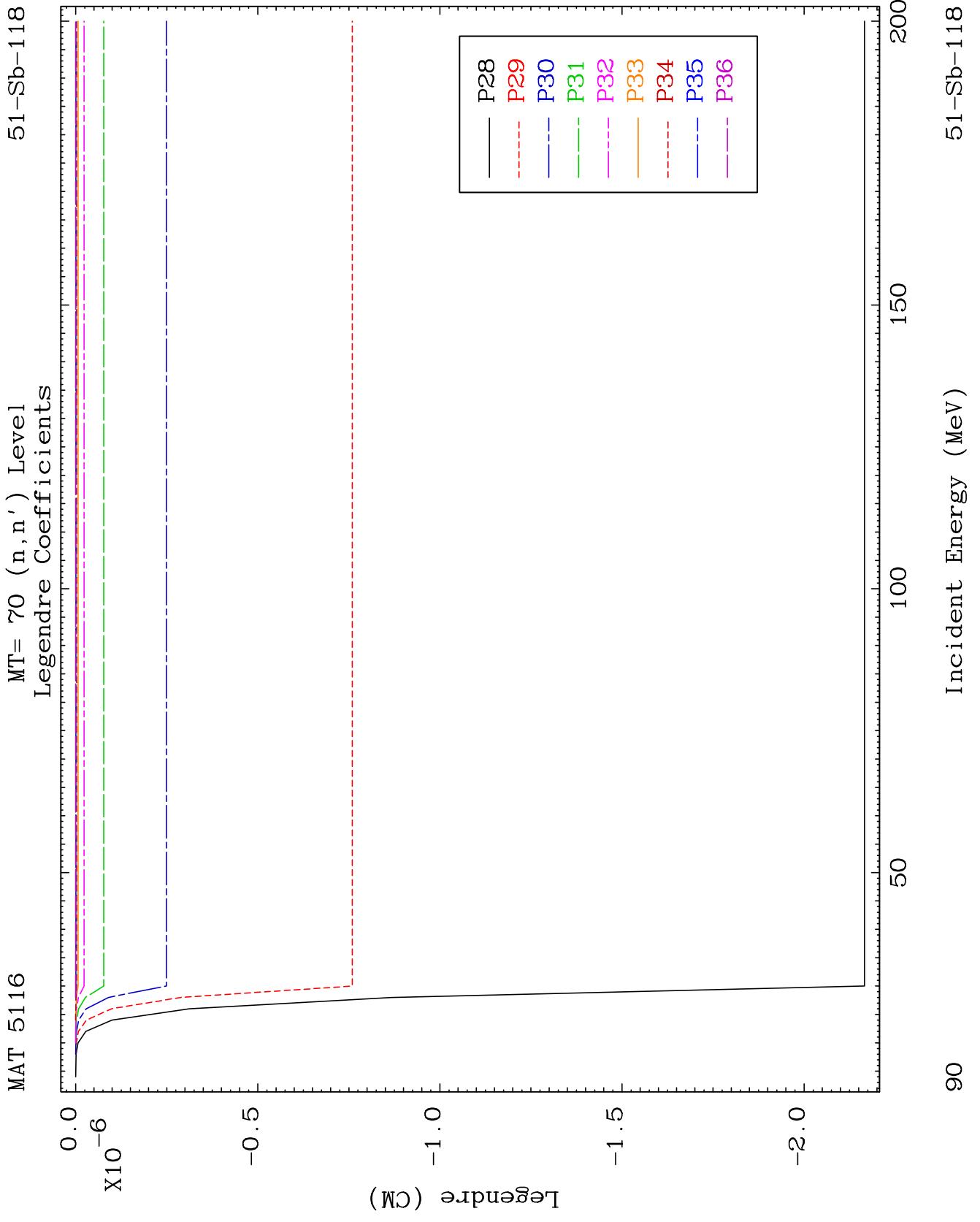
51-Sb-118

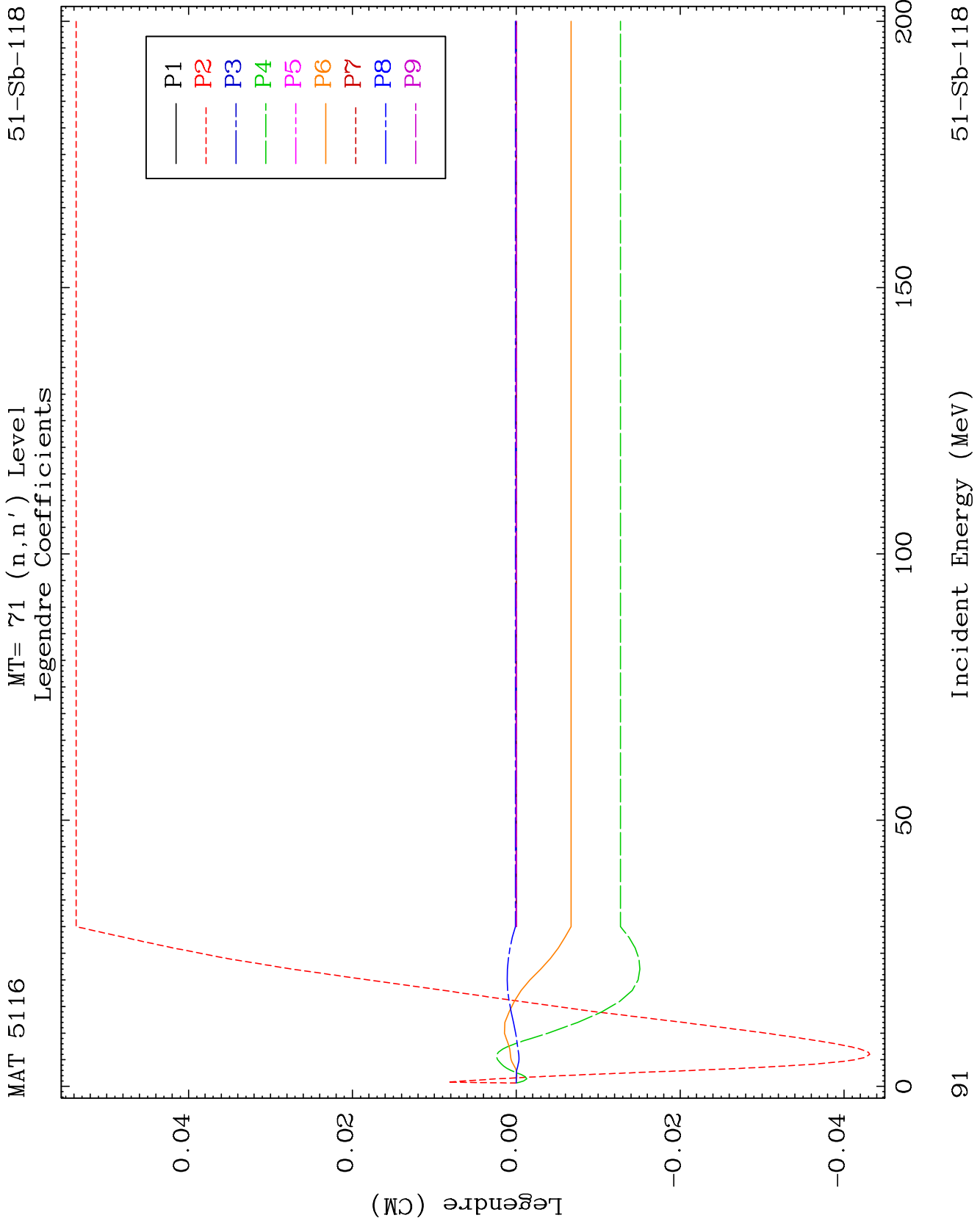


89

Incident Energy (MeV)

51-Sb-118

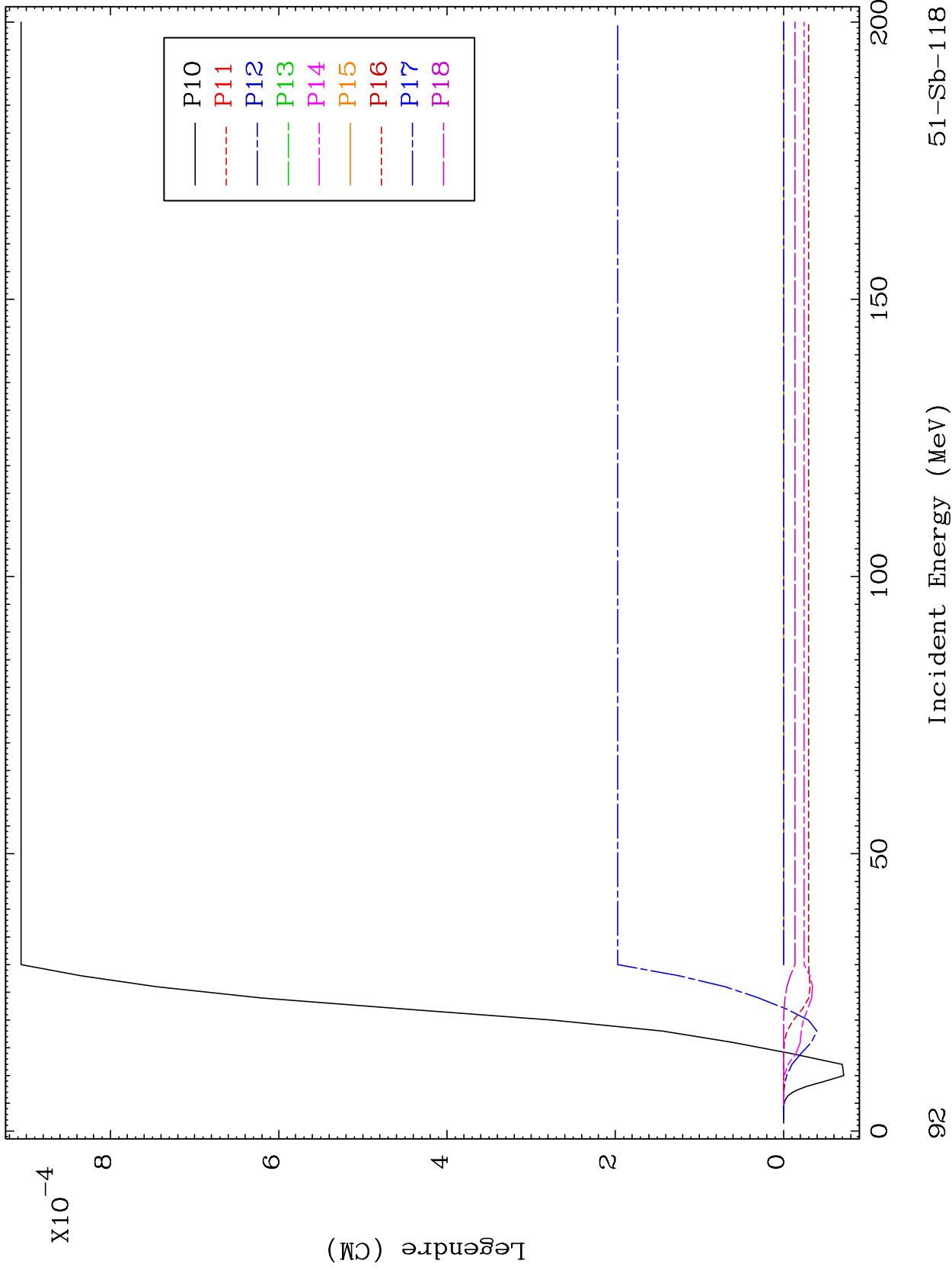




MAT 51116

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

51-Sb-118



92

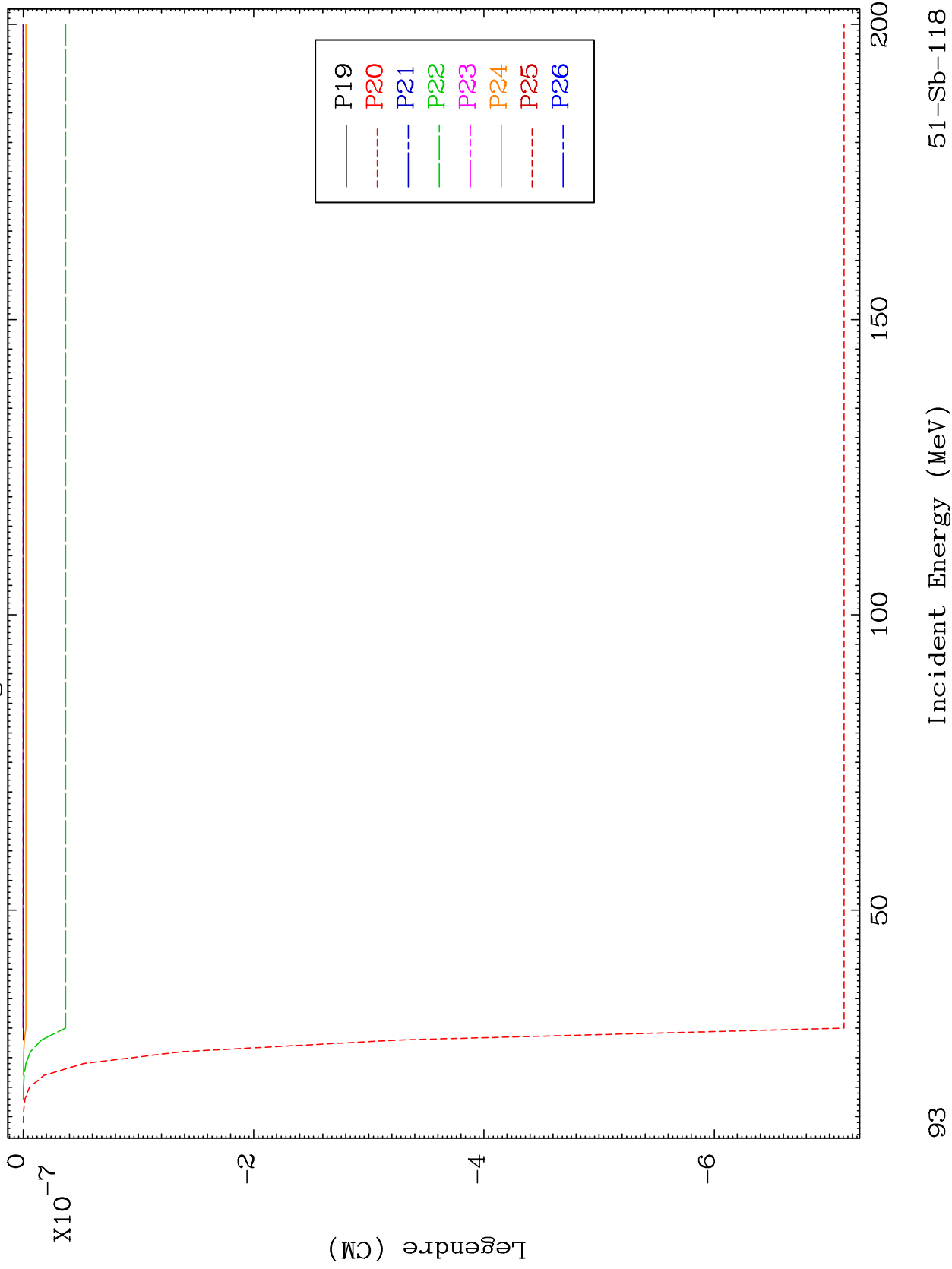
Incident Energy (MeV)

51-Sb-118

MAT 5116

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

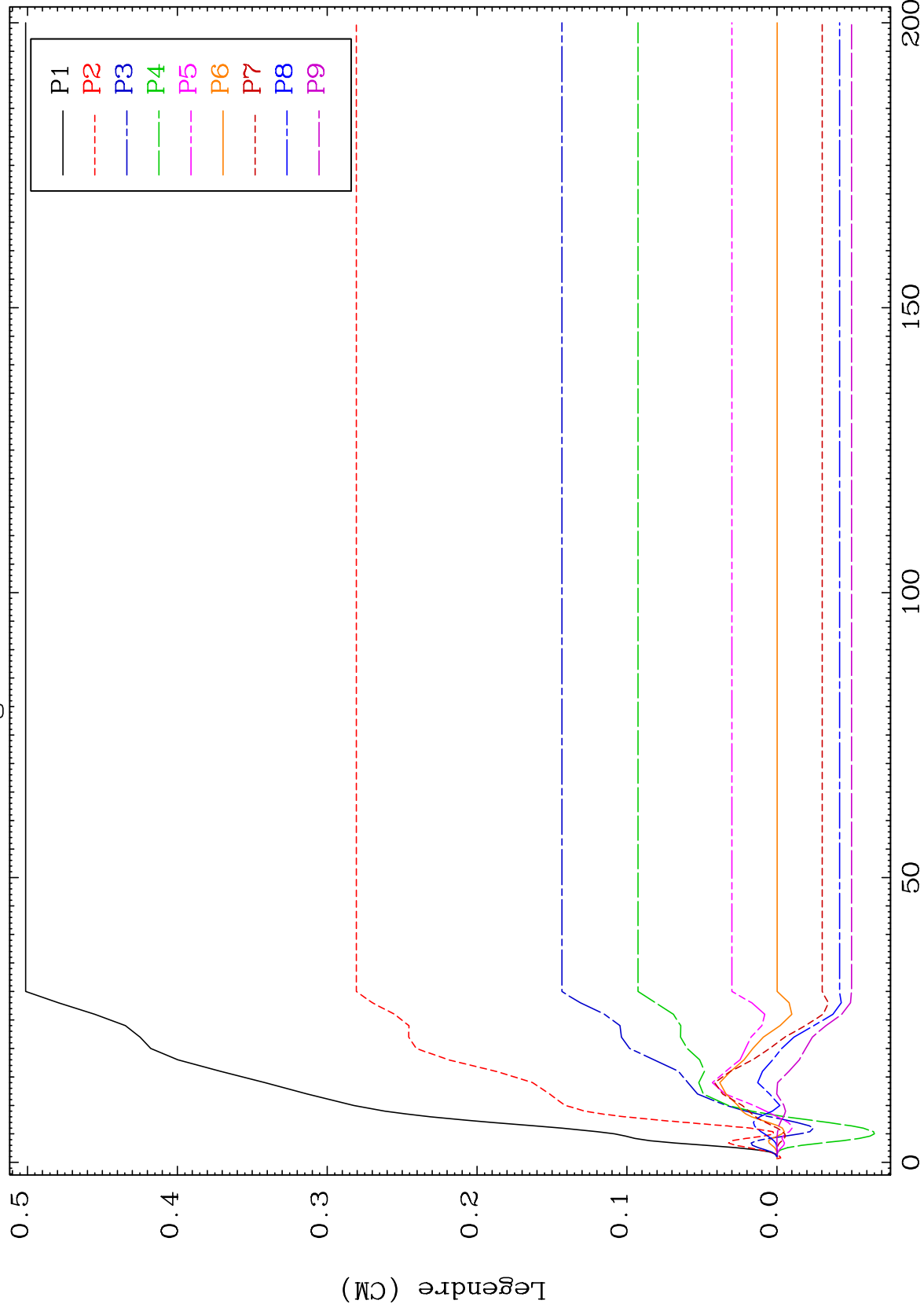
51-Sb-118



MAT 5116

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

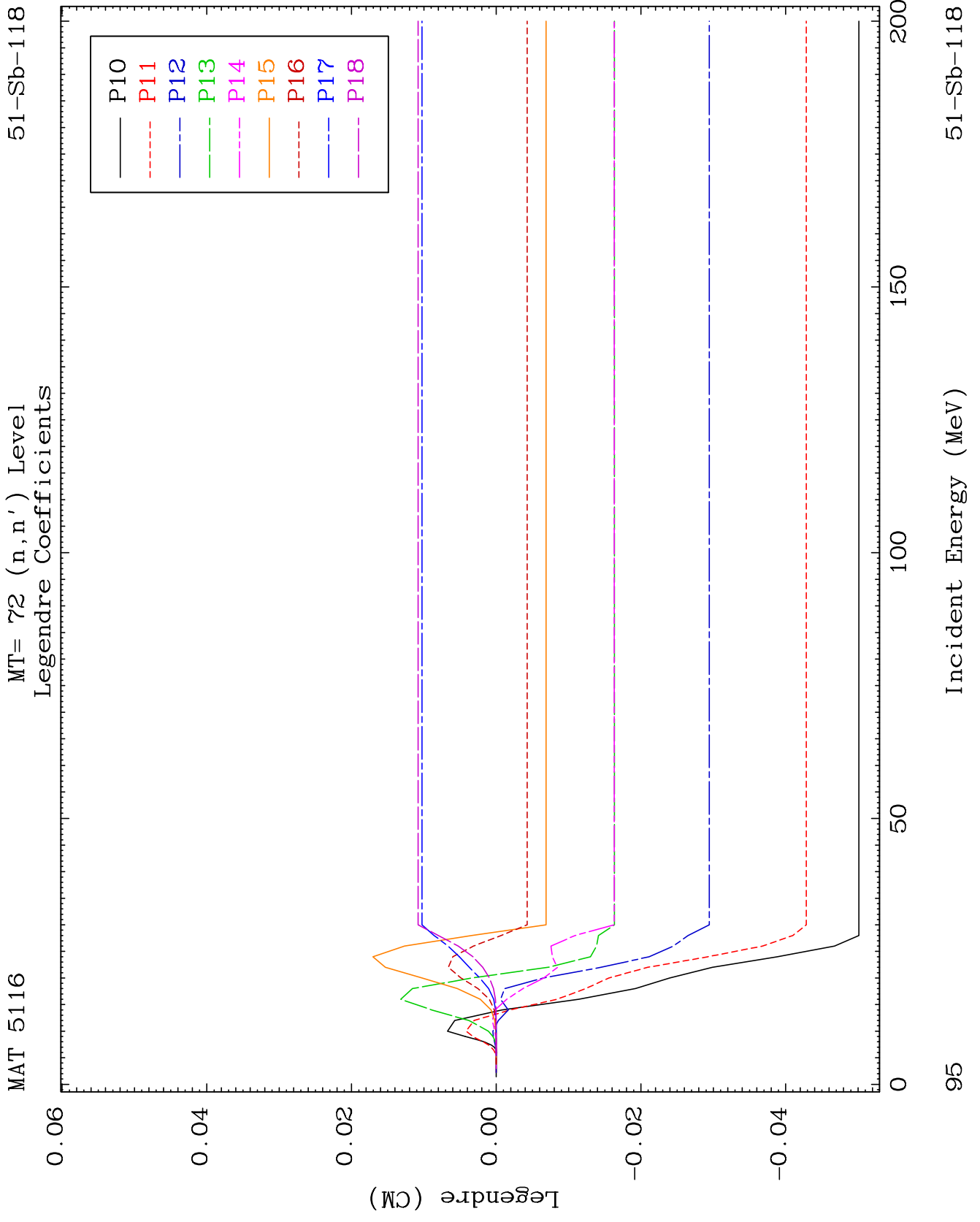
51-Sb-118



94

Incident Energy (MeV)

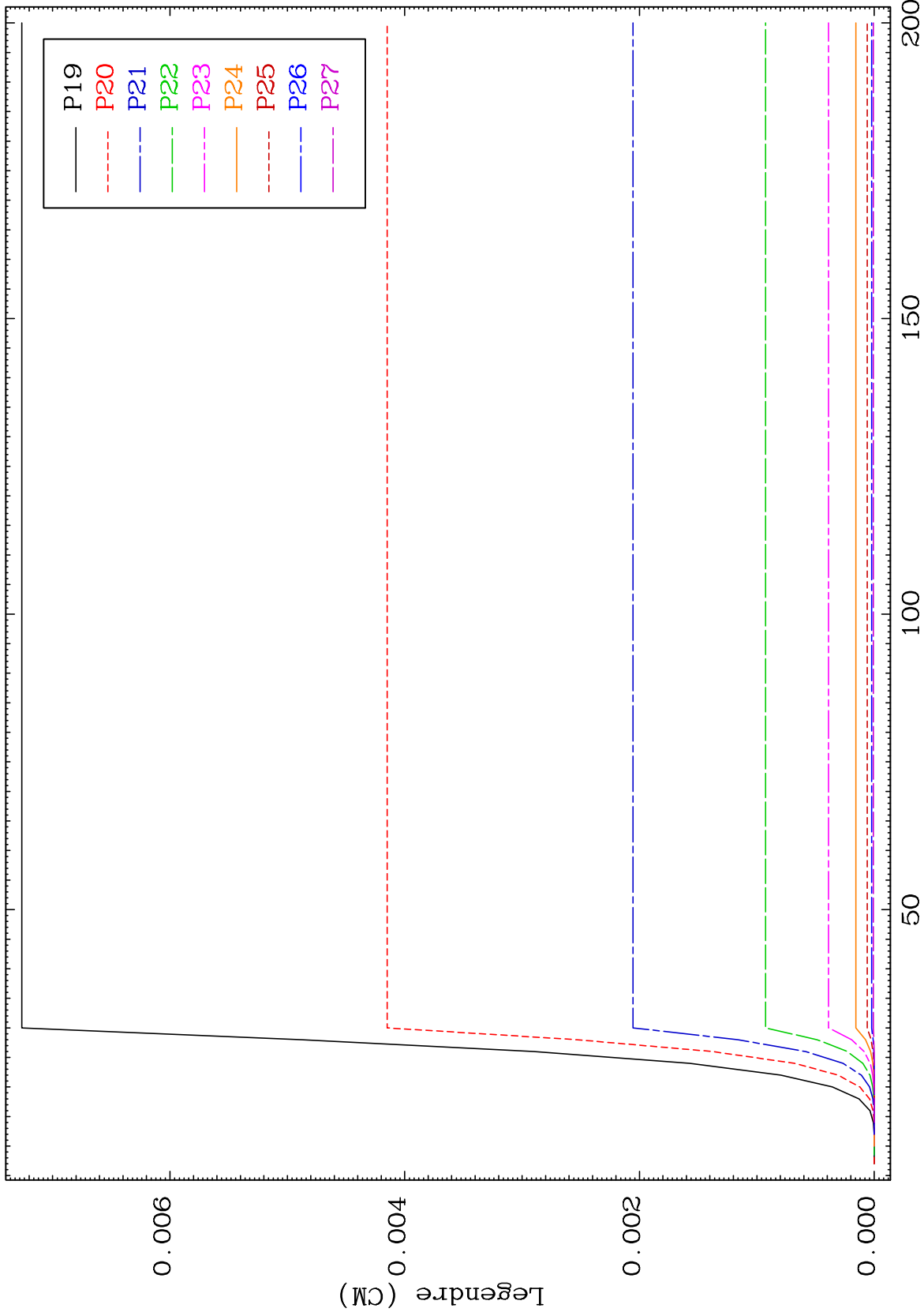
51-Sb-118



MAT 5116

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

51-Sb-118



96

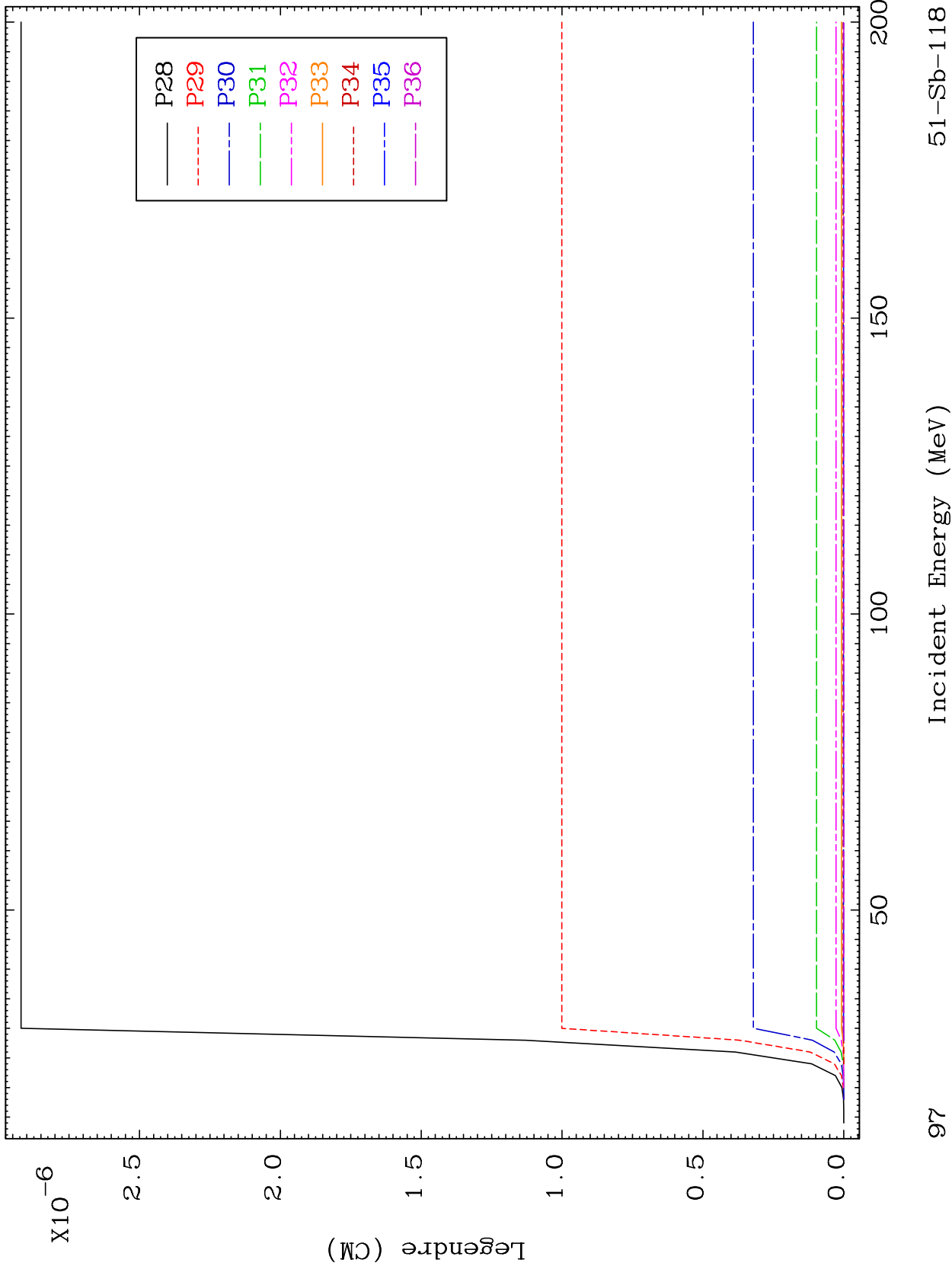
Incident Energy (MeV)

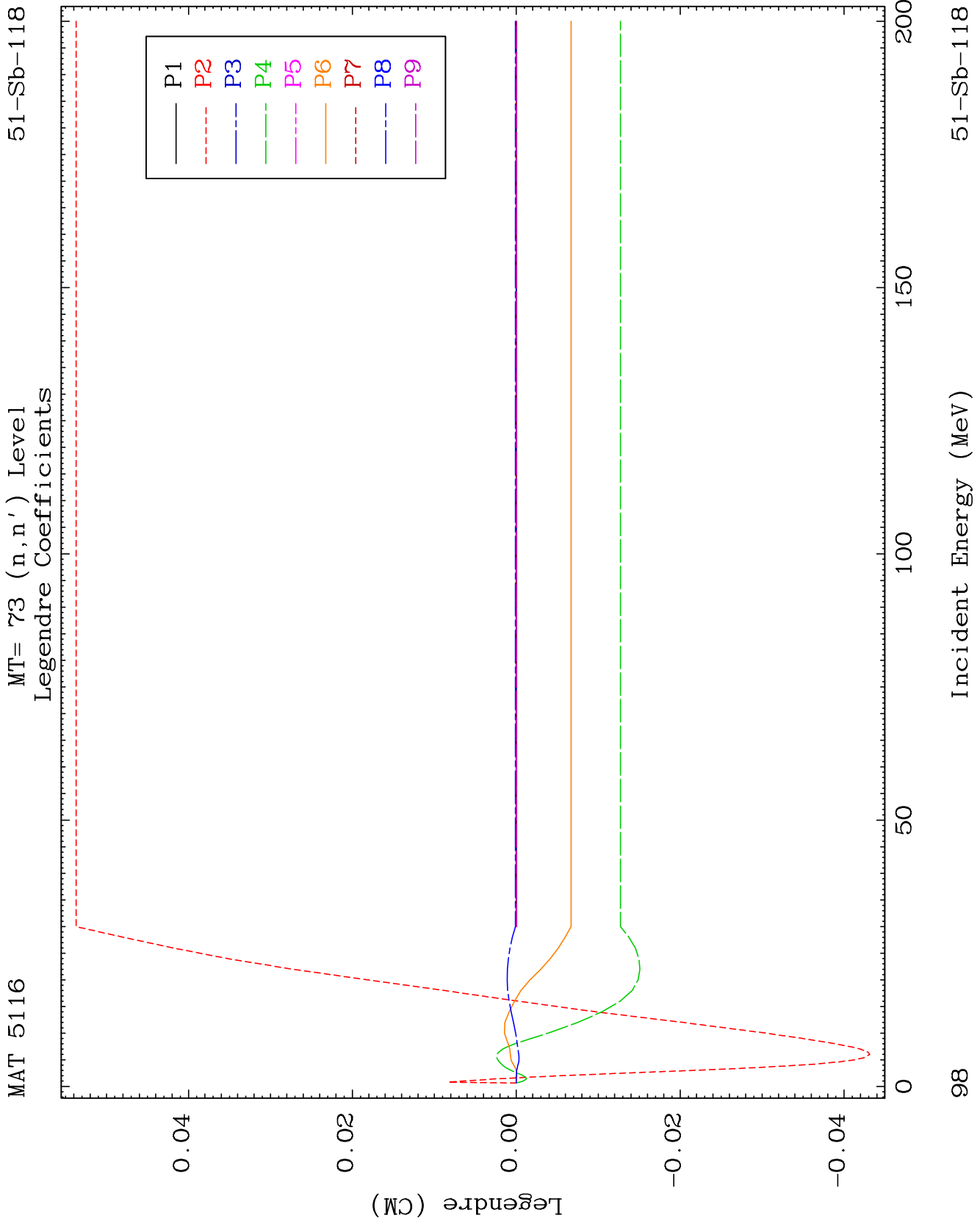
51-Sb-118

MAT 5116

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

51-Sb-118

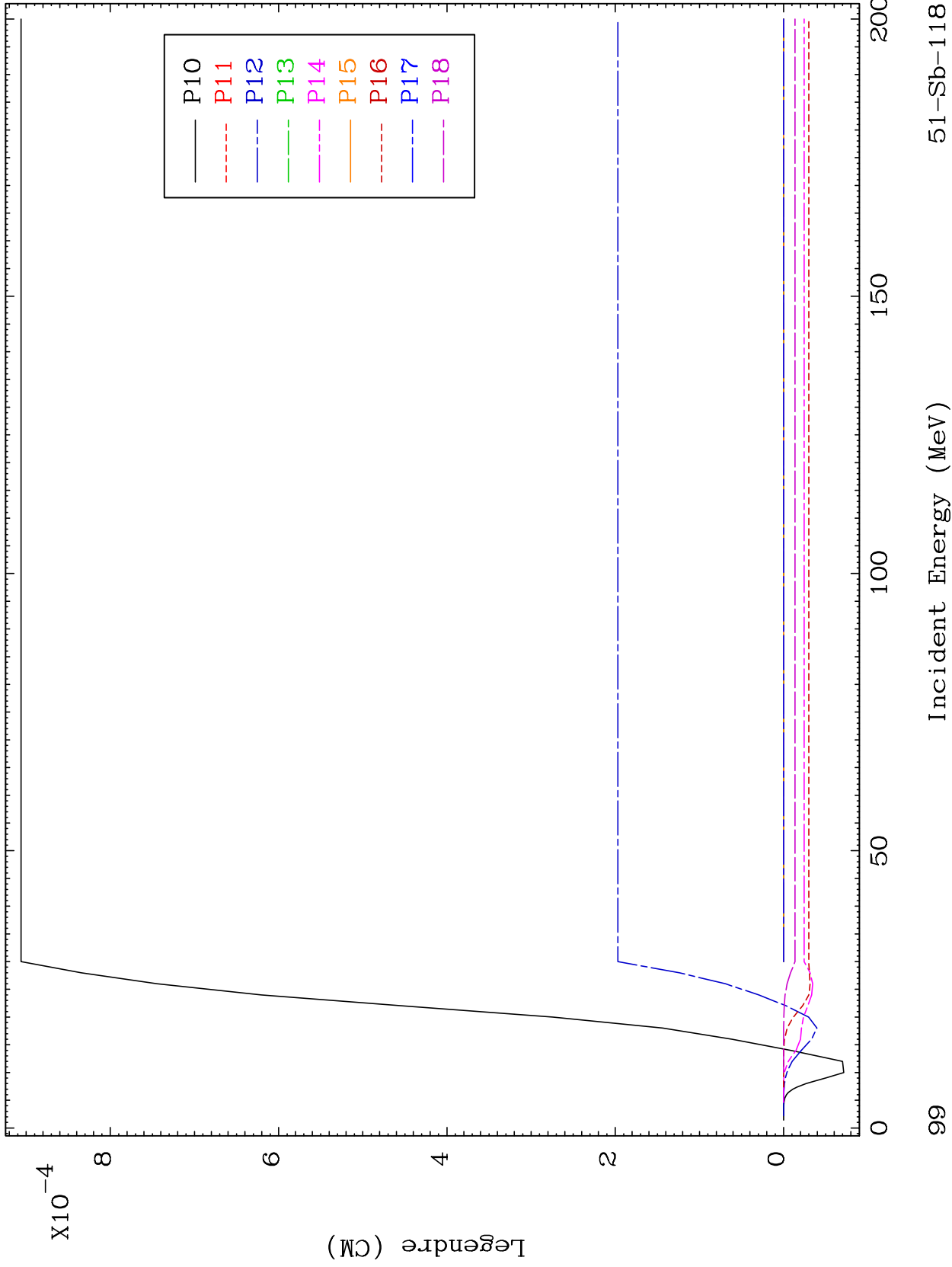




MAT 51116

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

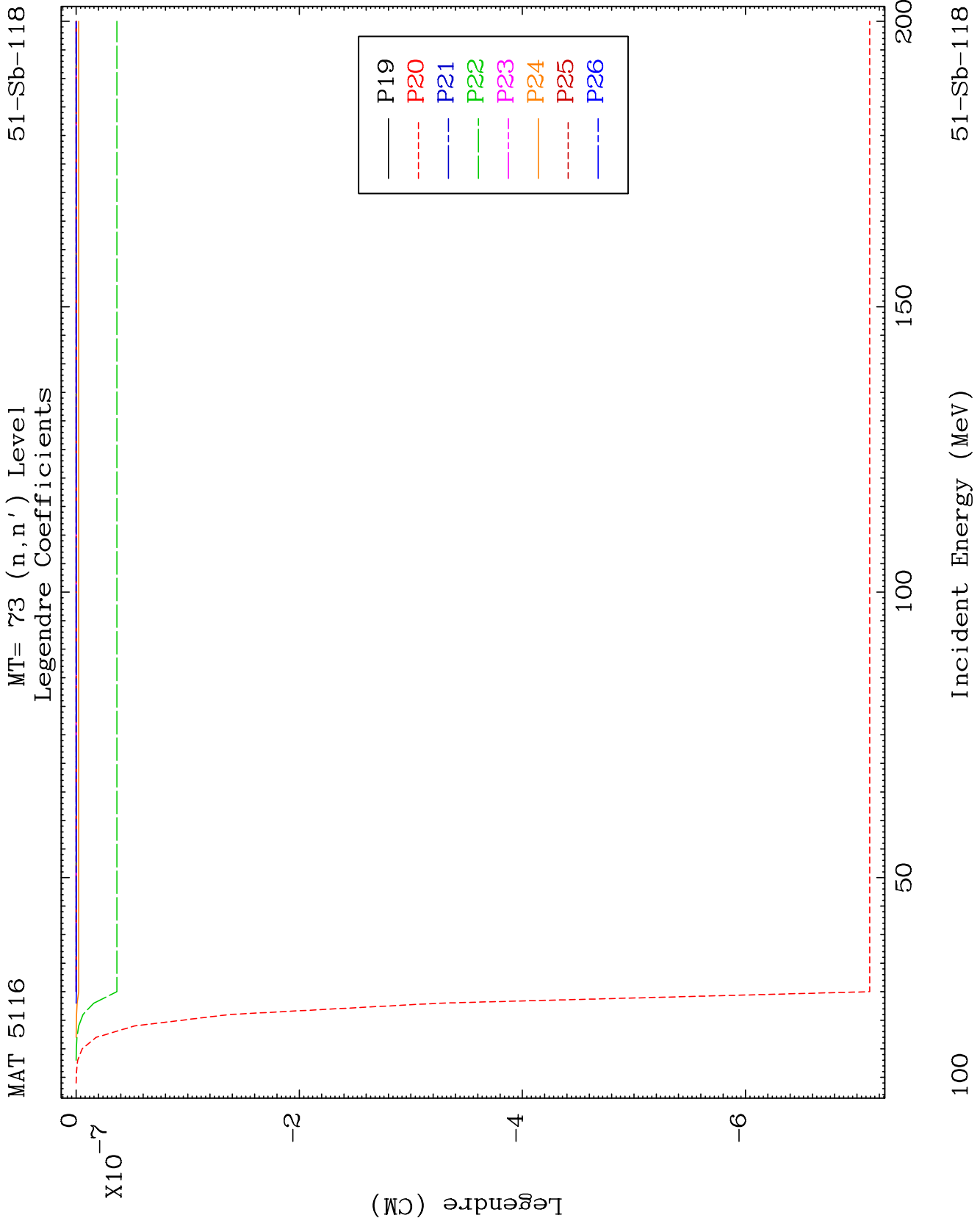
51-Sb-118



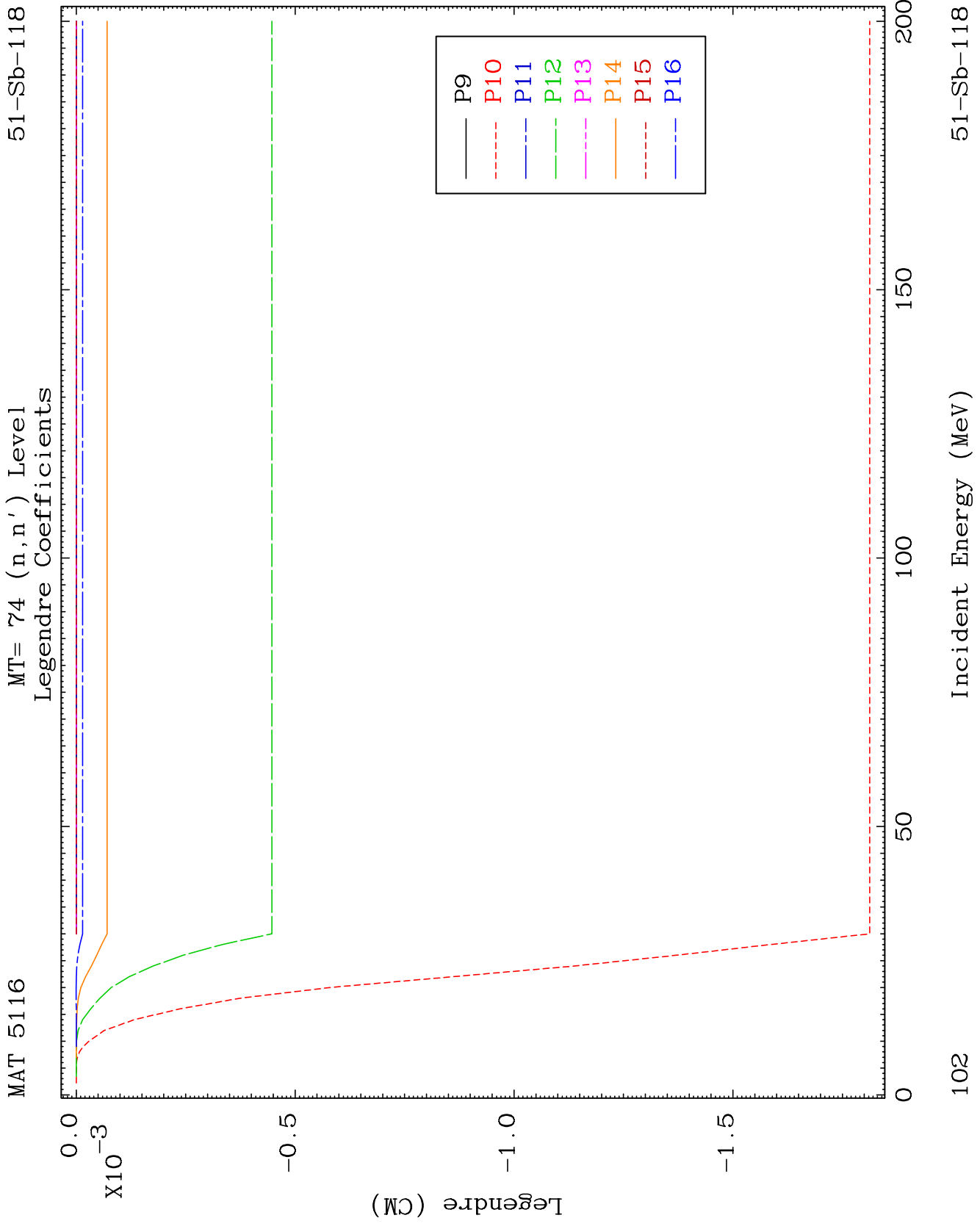
51-Sb-118

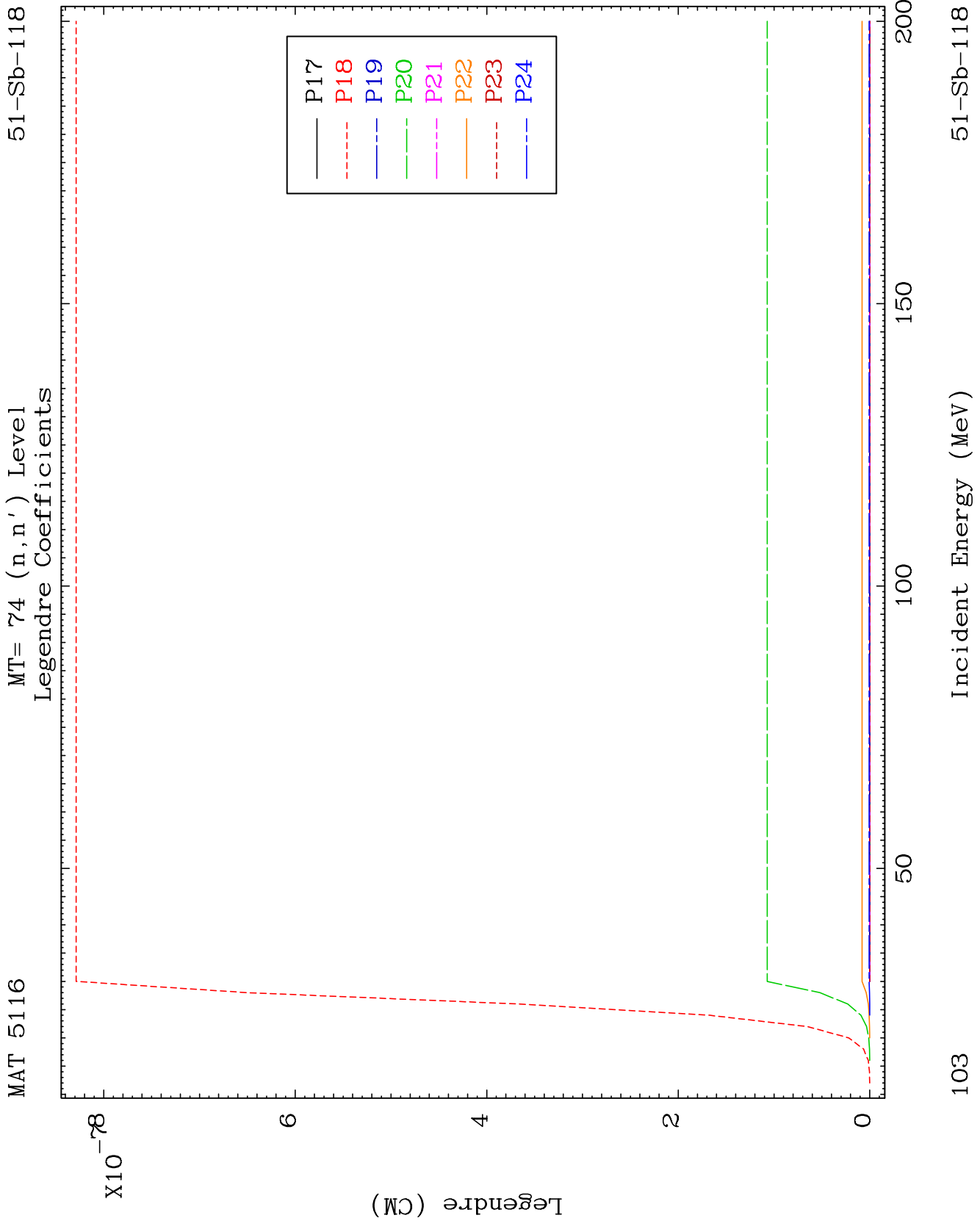
Incident Energy (MeV)

99





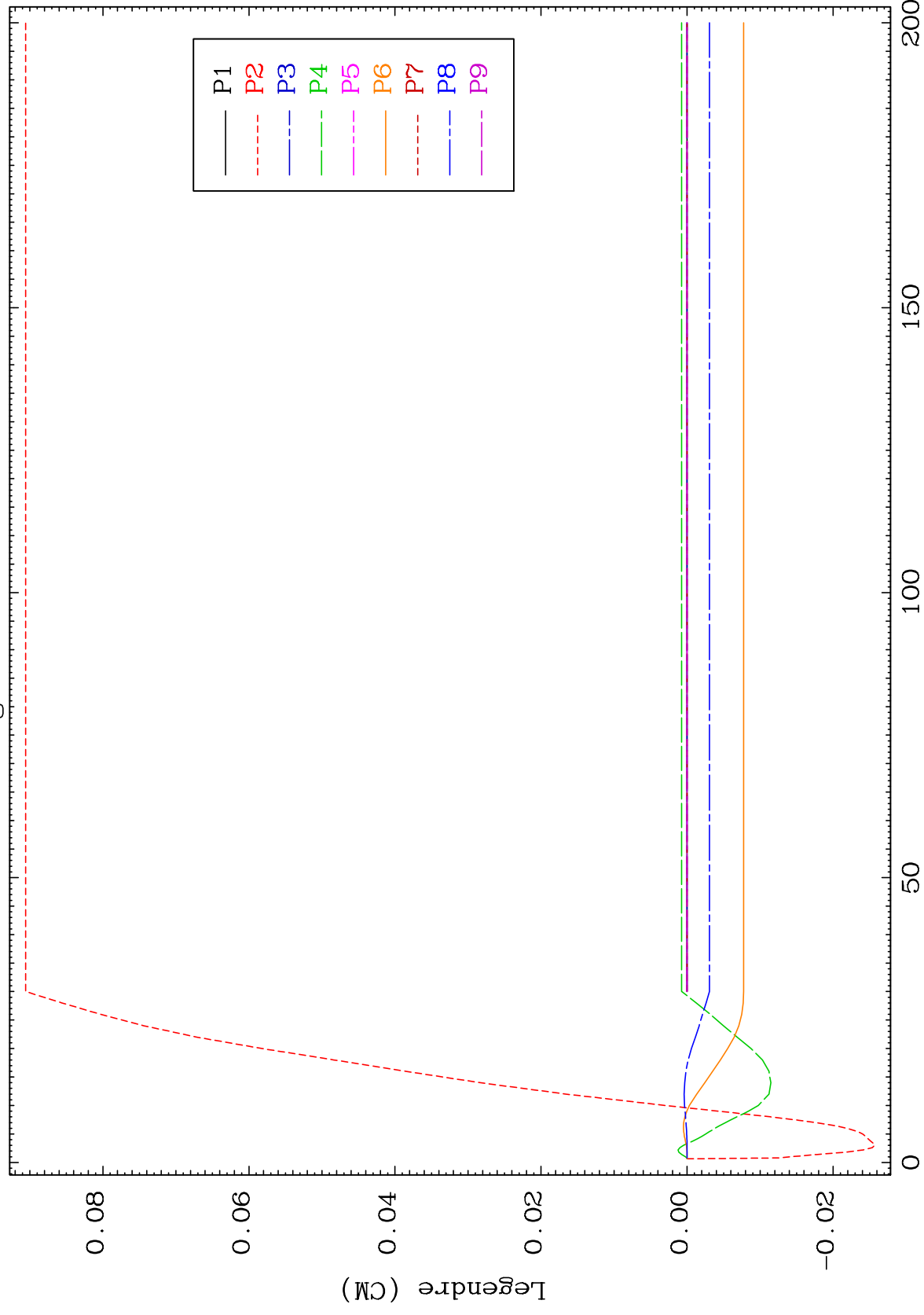




MAT 5116

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

51-Sb-118



51-Sb-118

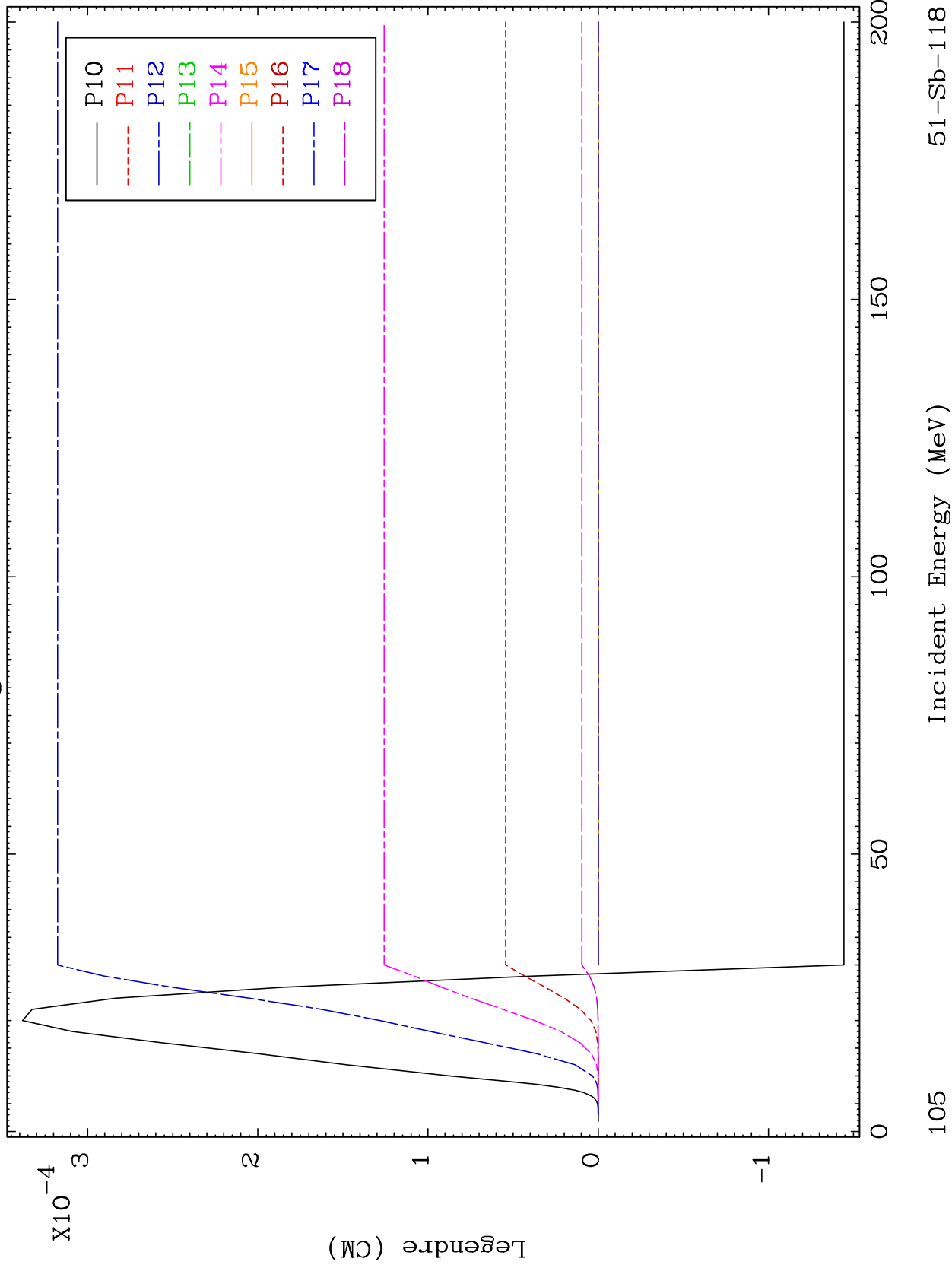
Incident Energy (MeV)

104

MAT 5116

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

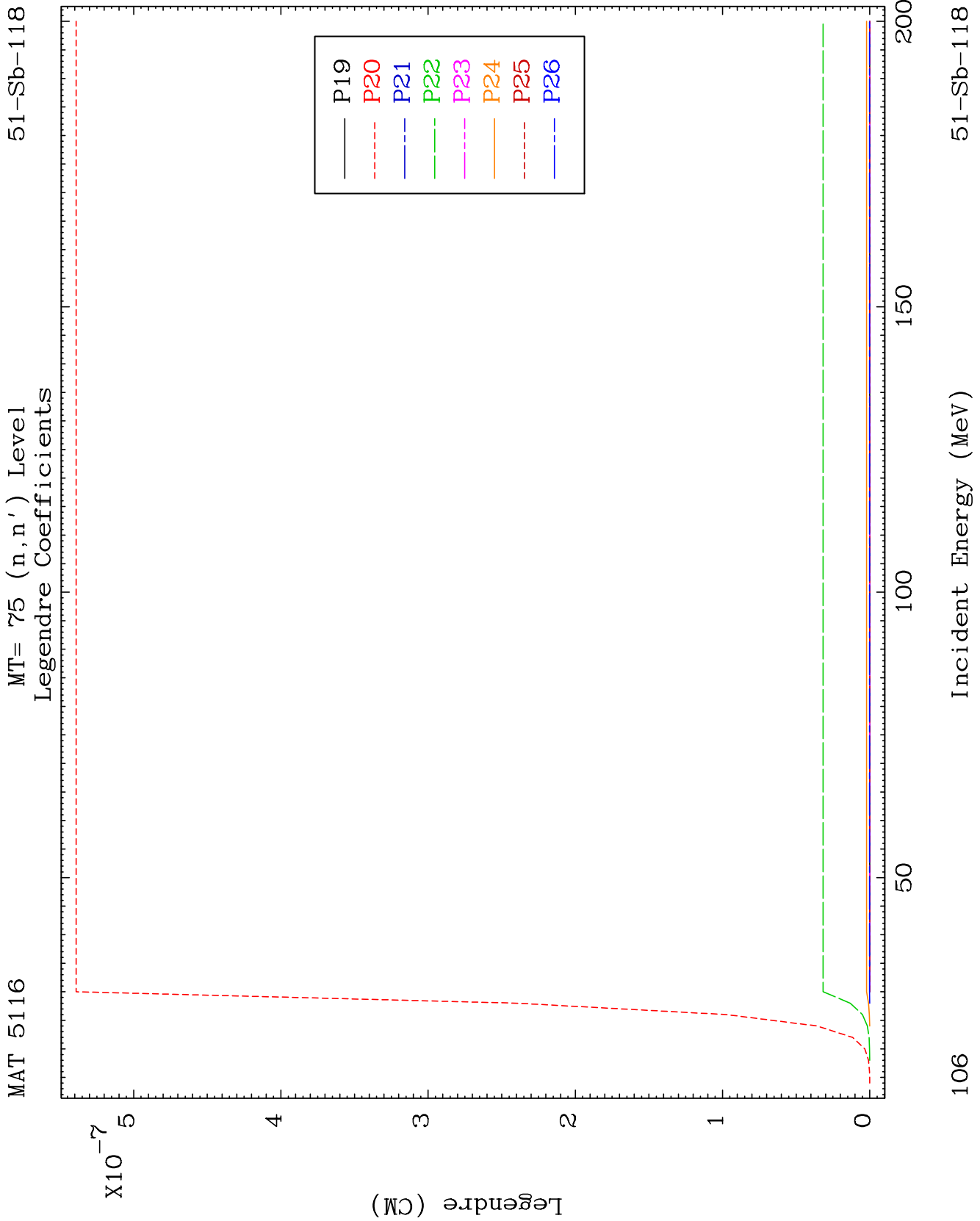
51-Sb-118



51-Sb-118

Incident Energy (MeV)

105

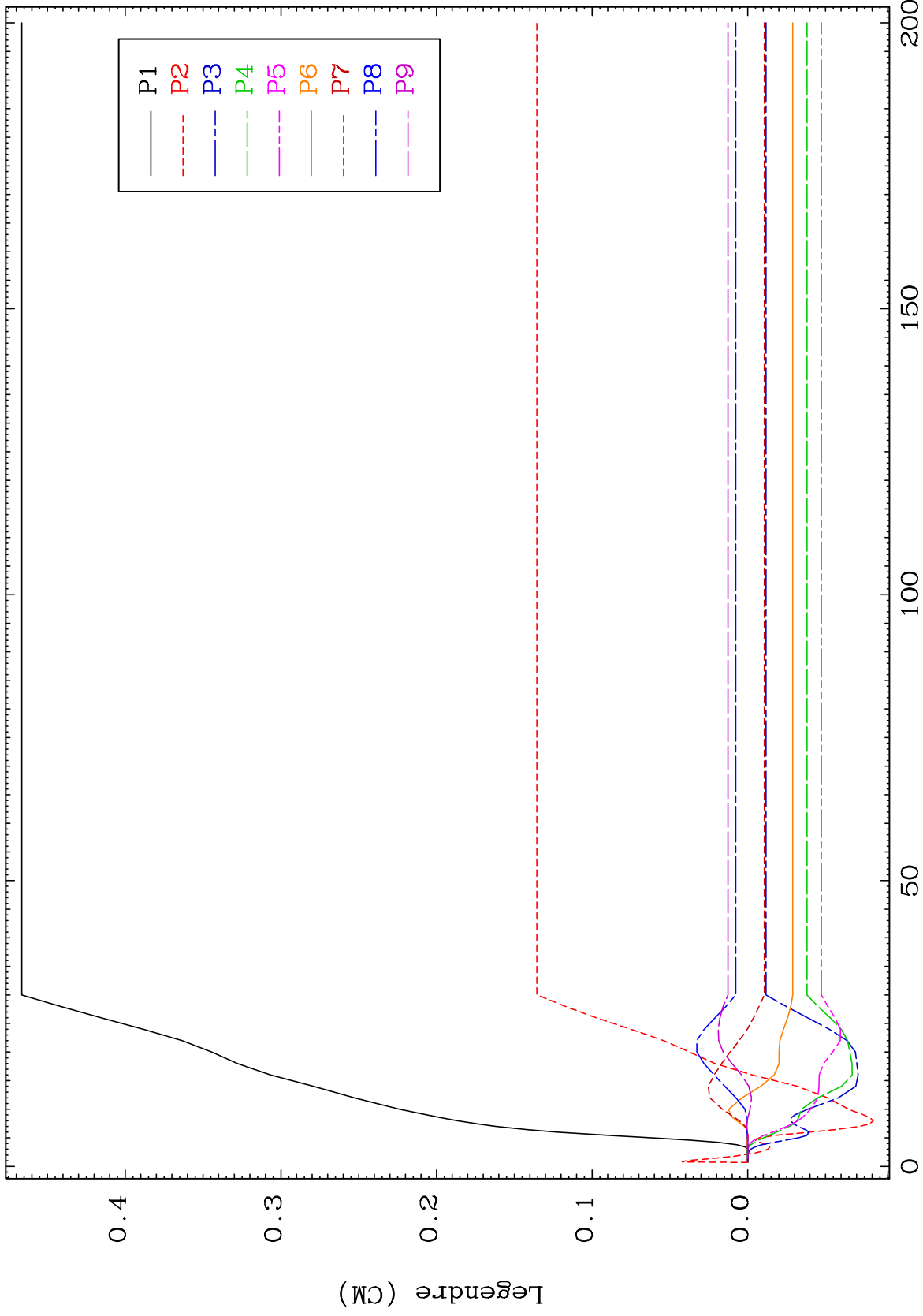


MAT 5116

MT= 76 (n,n') Level

51-Sb-118

Legendre Coefficients



0

50

100

150

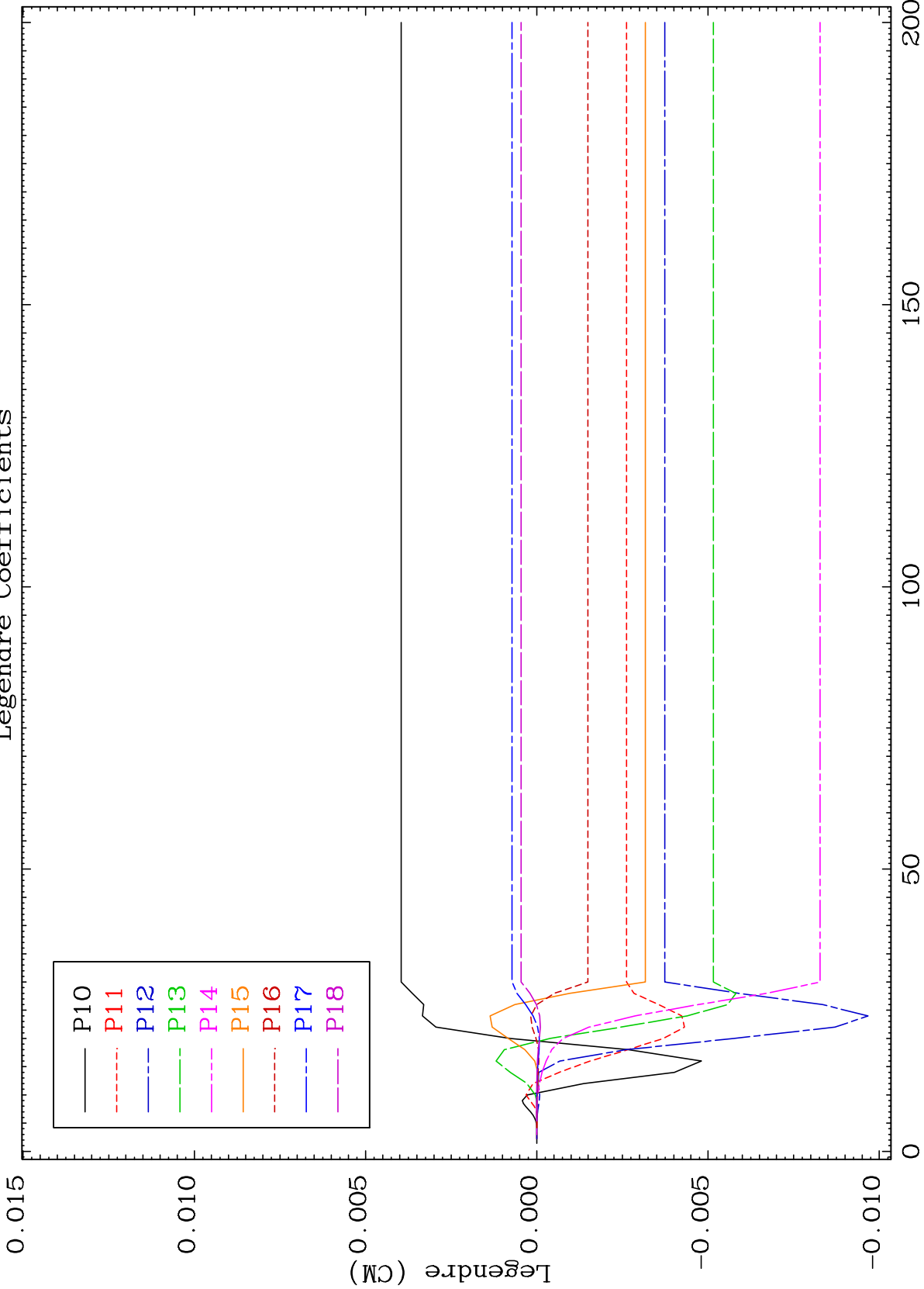
200

51-Sb-118

MAT 5116

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

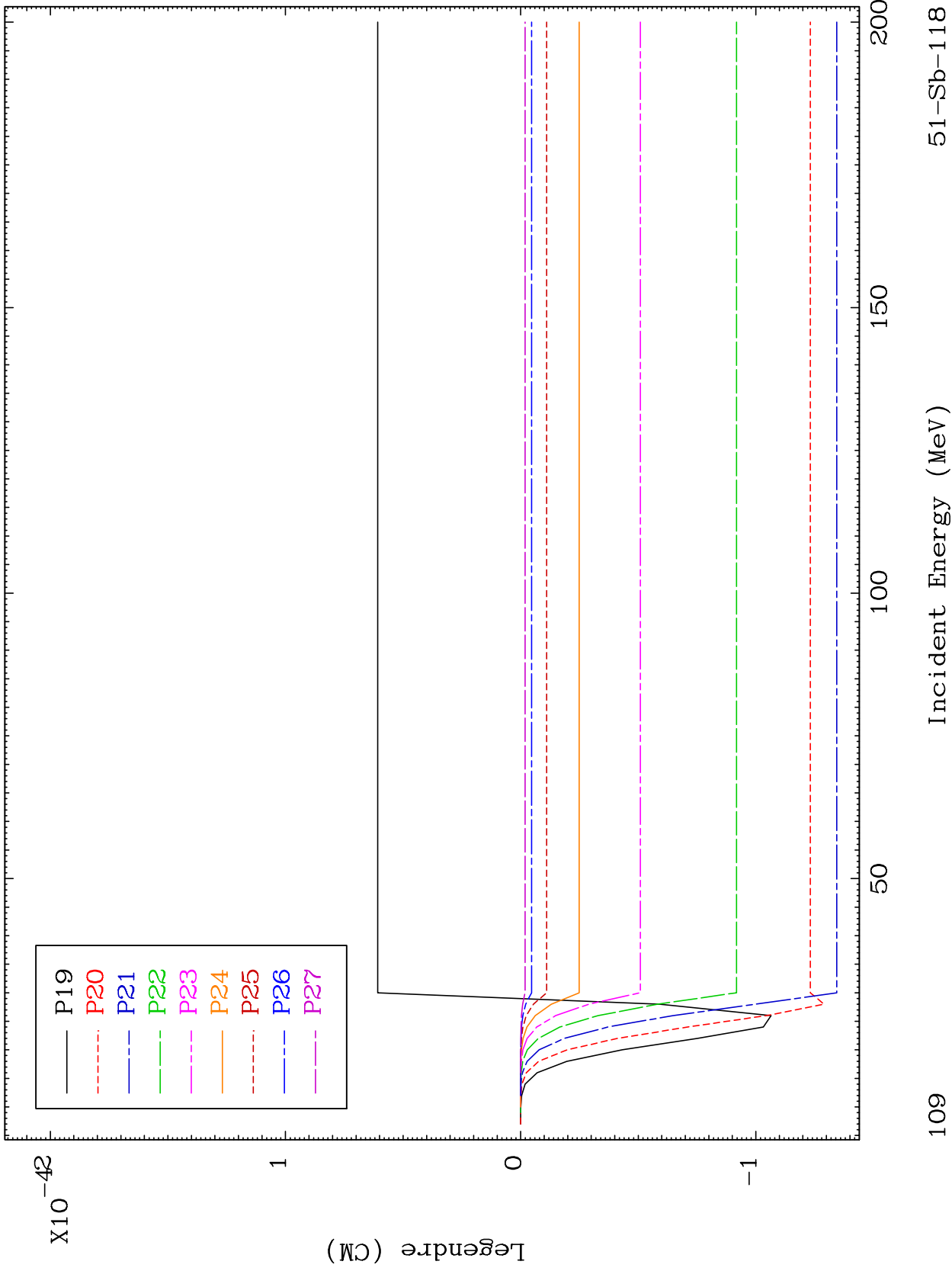
51-Sb-118



108

Incident Energy (MeV)

51-Sb-118

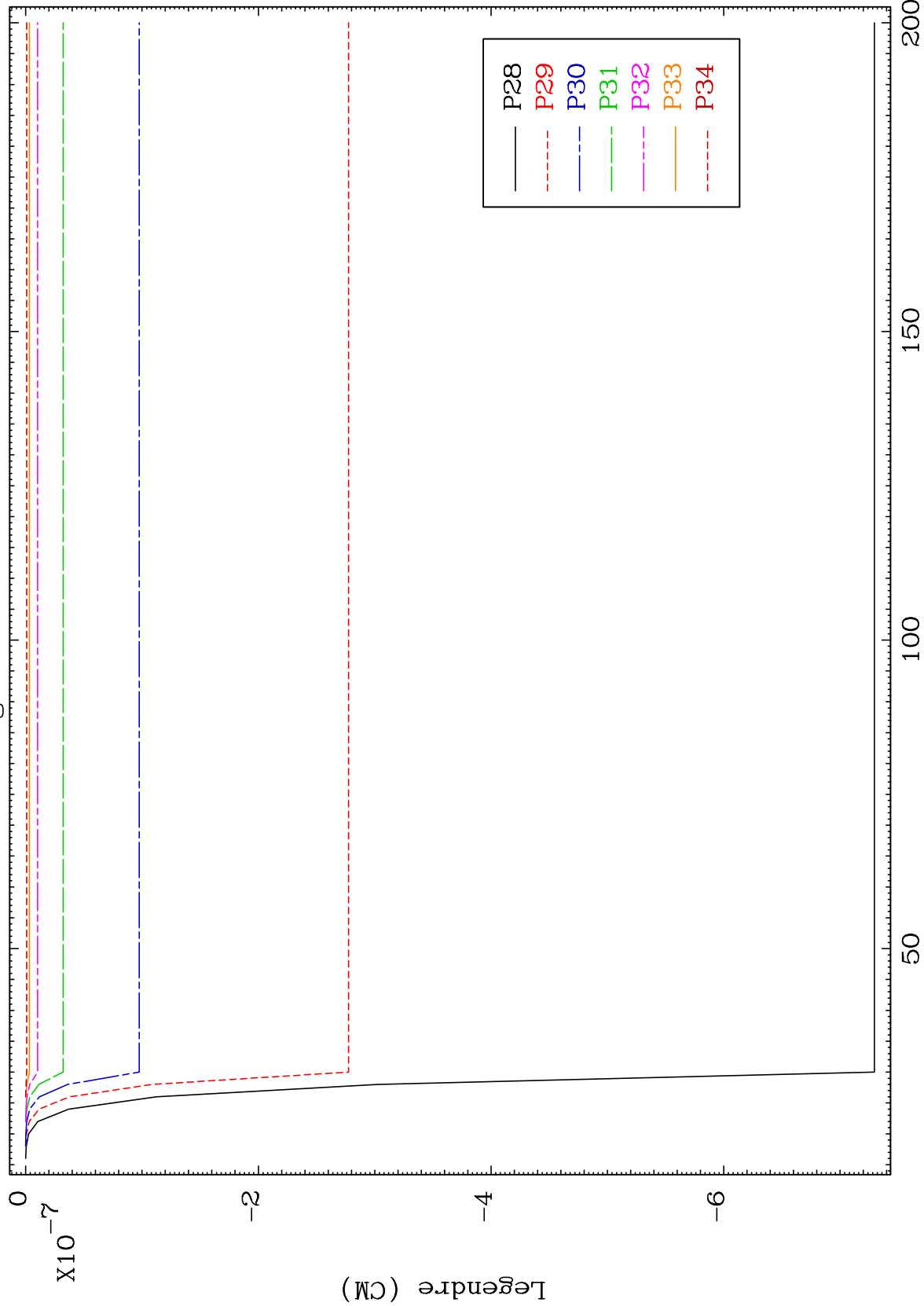


MAT 5116

MT= 76 (n,n') Level

51-Sb-118

Legendre Coefficients



110

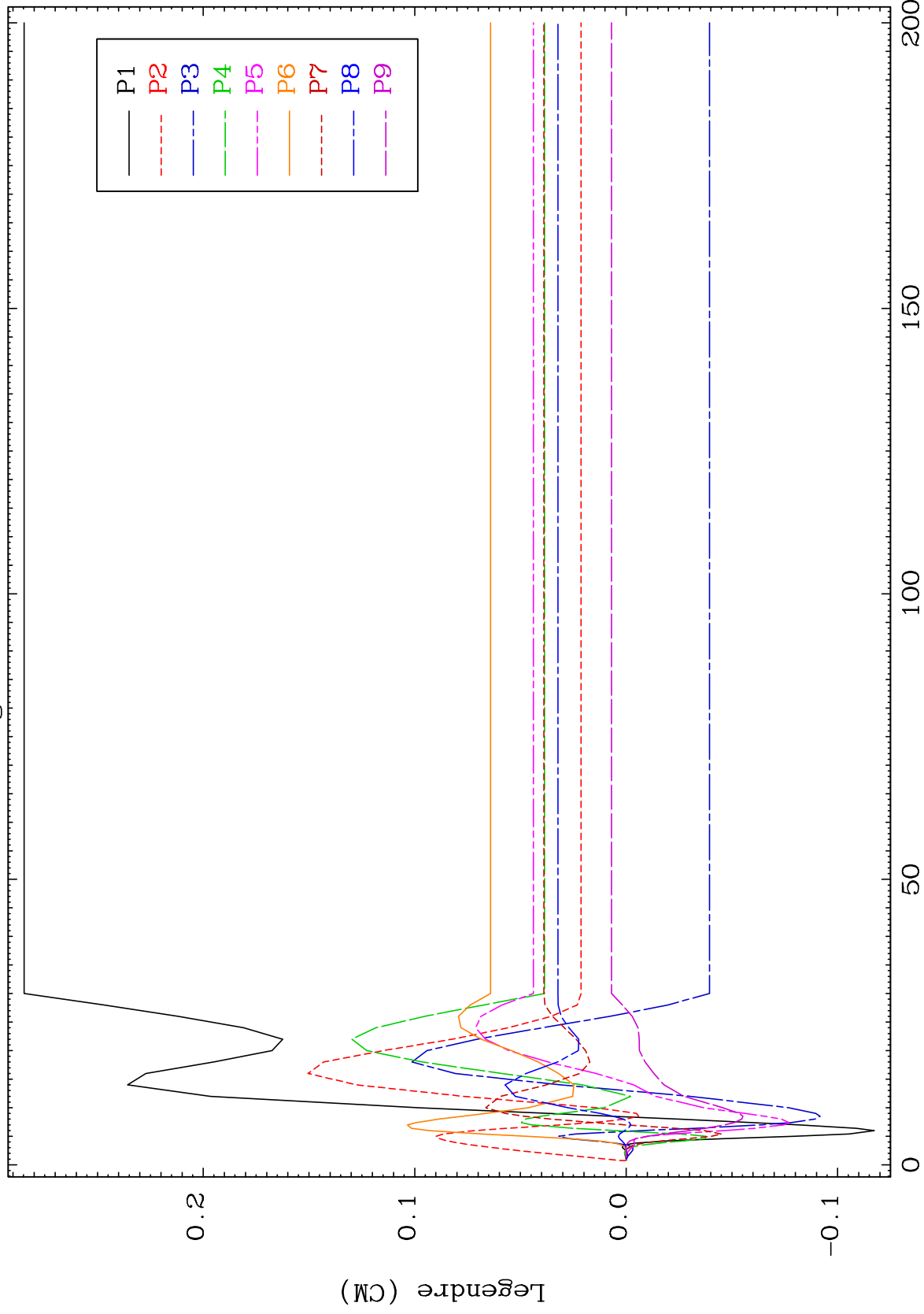
Incident Energy (MeV)

51-Sb-118

MAT 5116

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

51-Sb-118



51-Sb-118

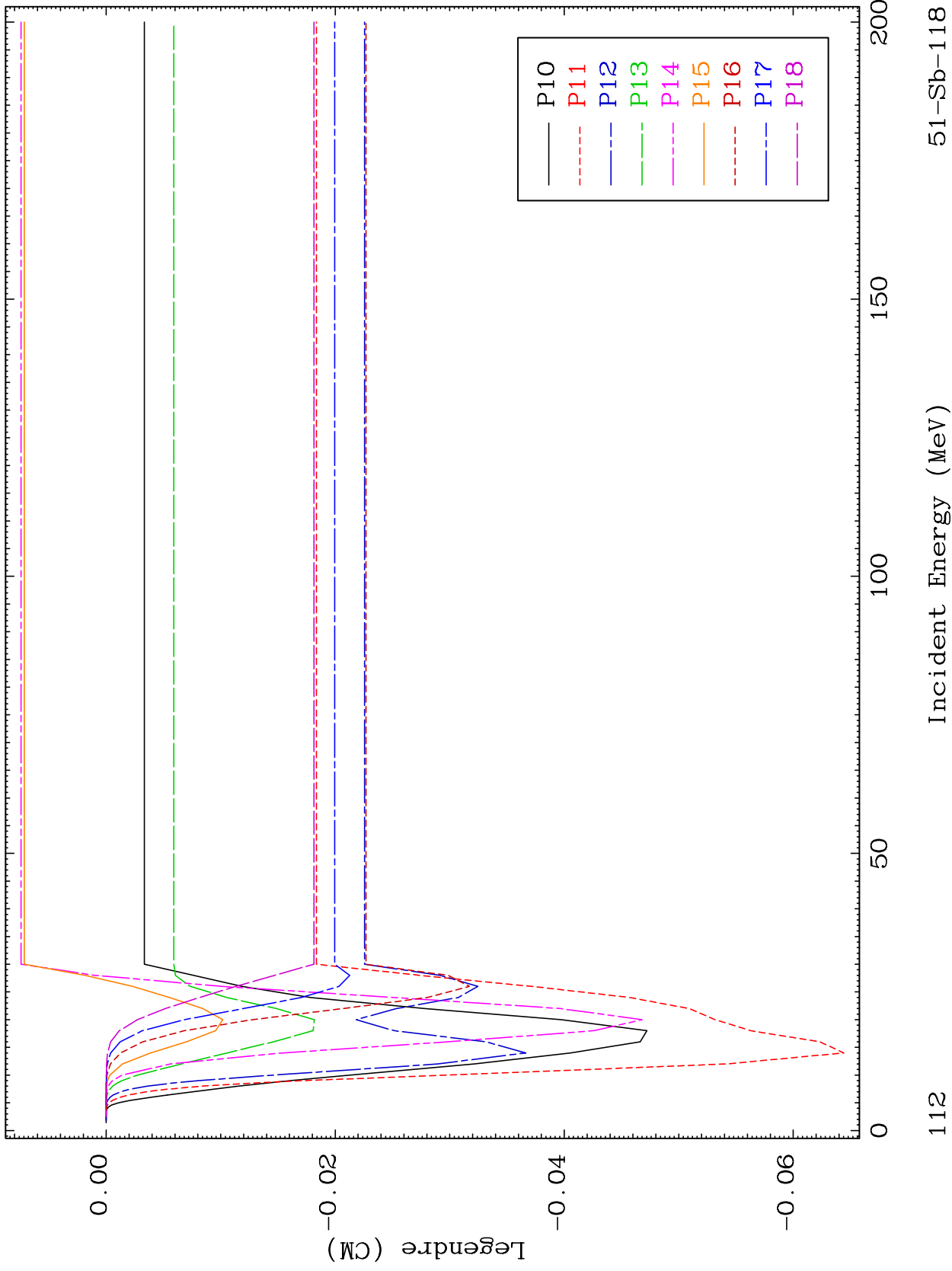
Incident Energy (MeV)

111

MAT 5116

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

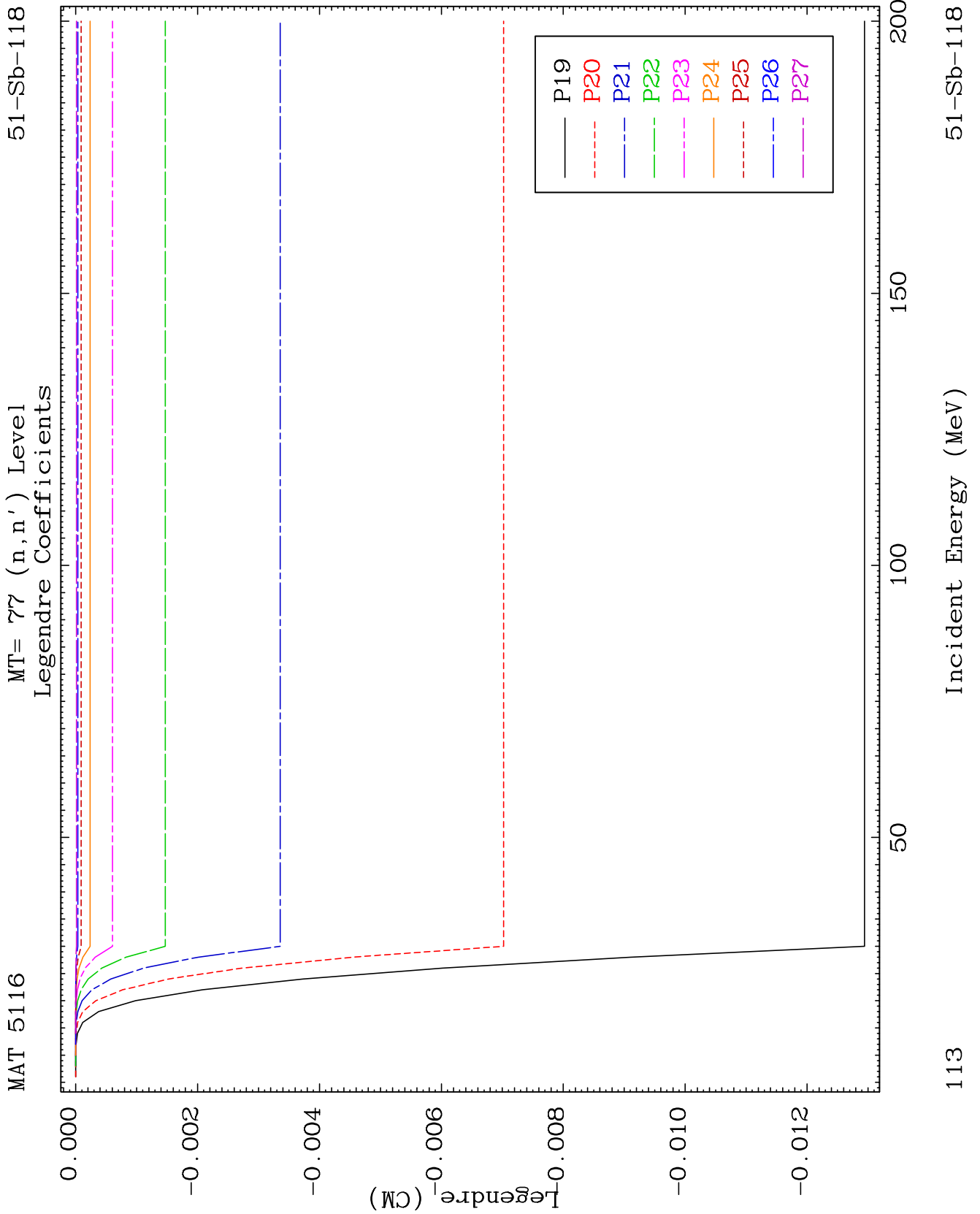
51-Sb-118

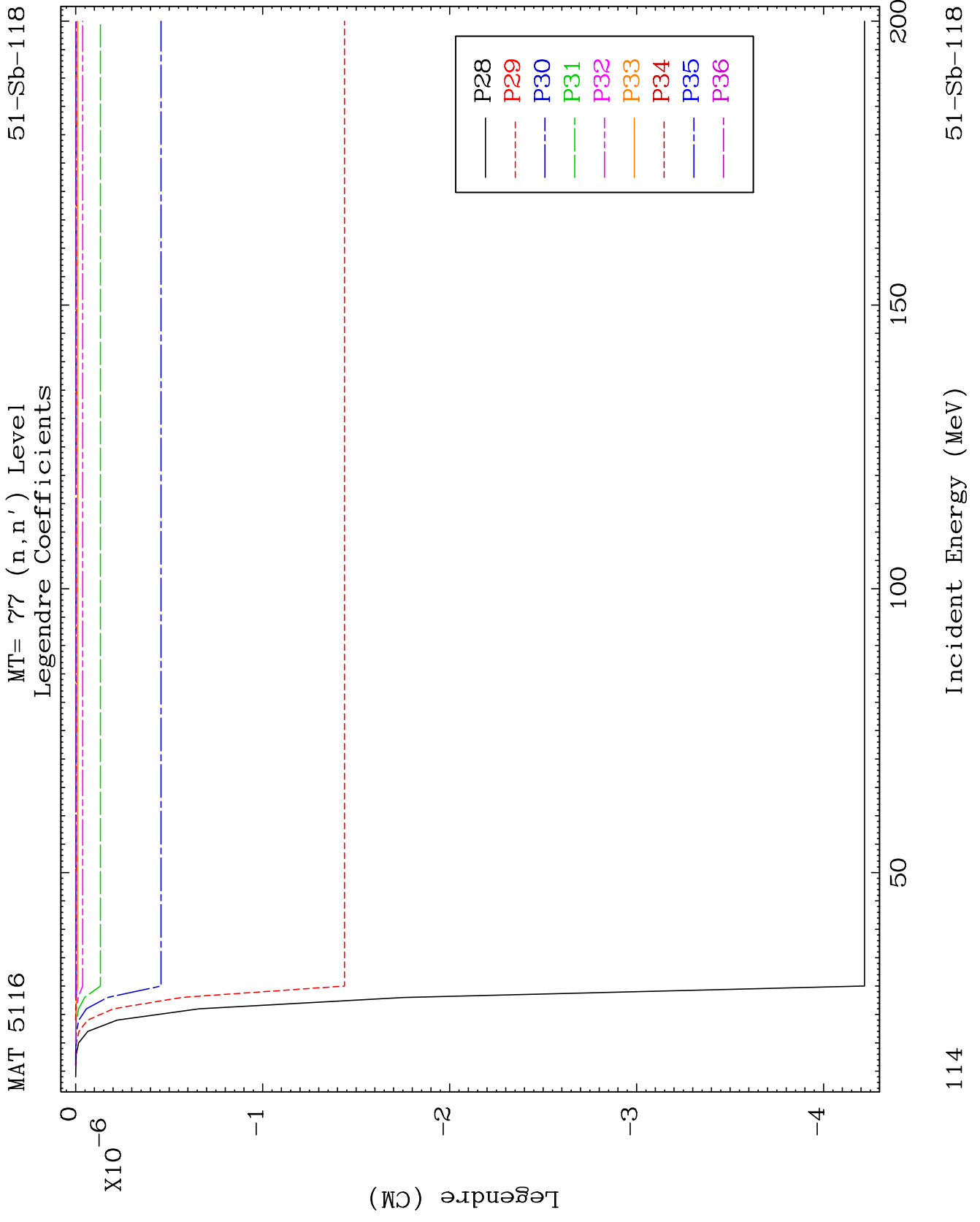


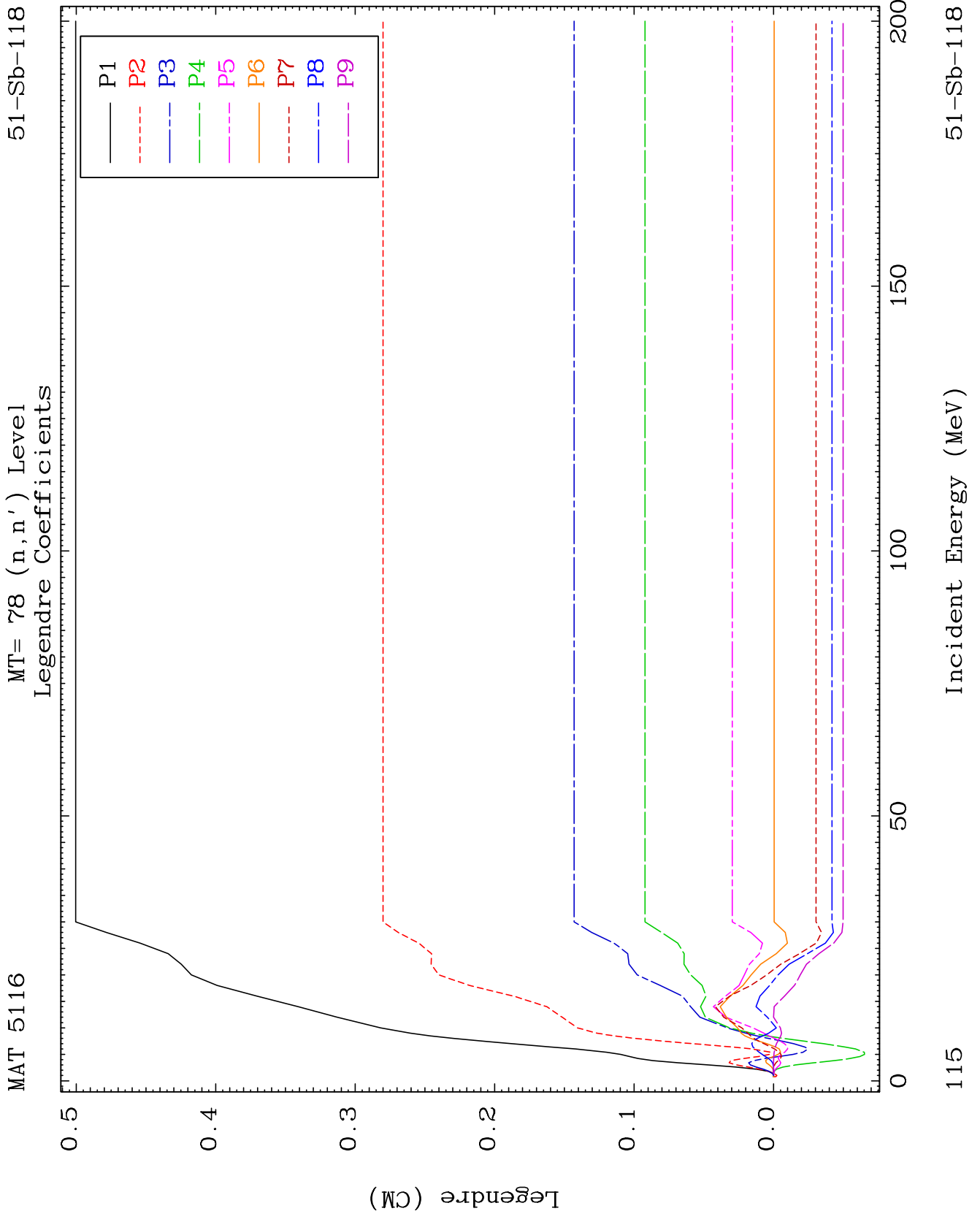
51-Sb-118

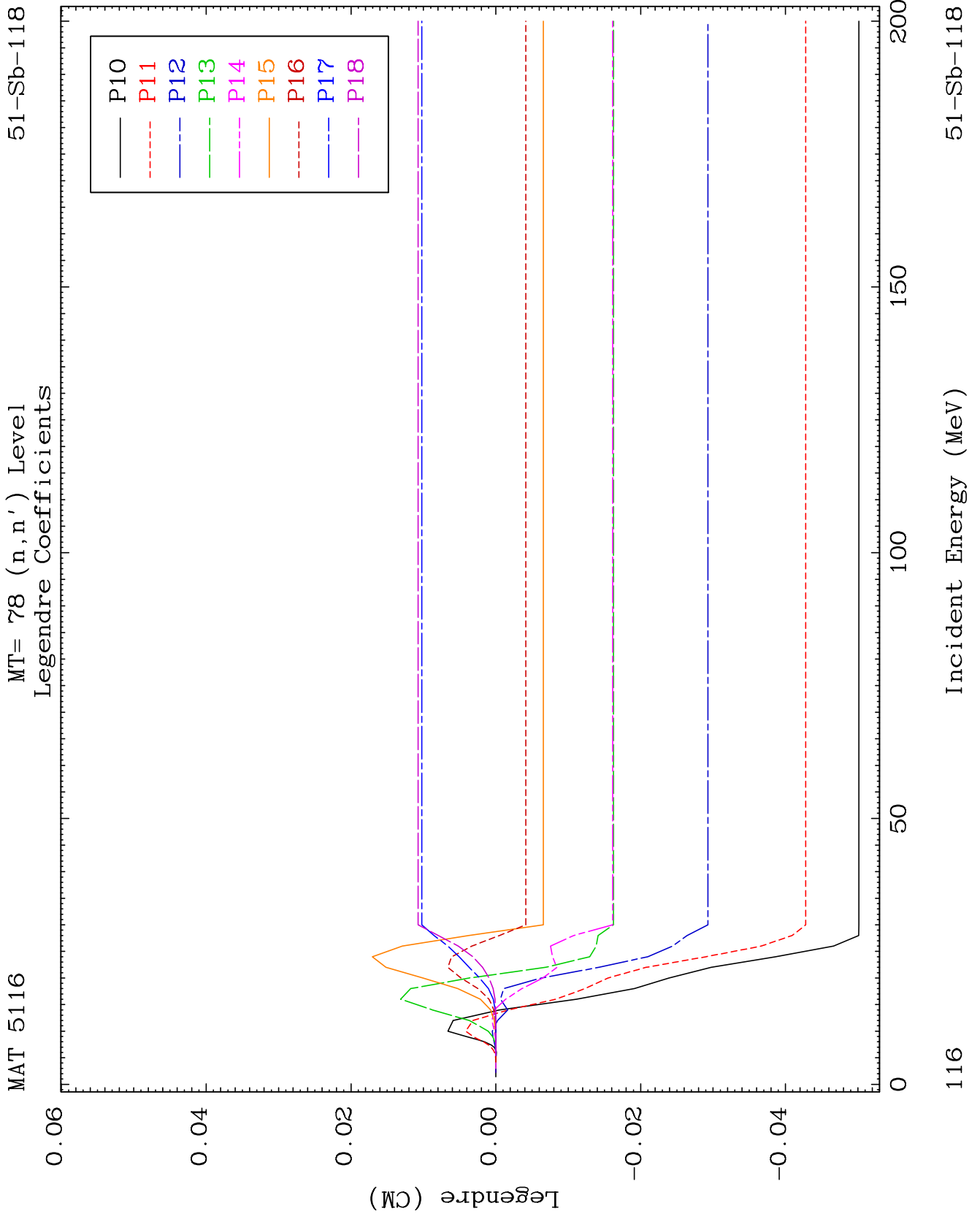
Incident Energy (MeV)

112





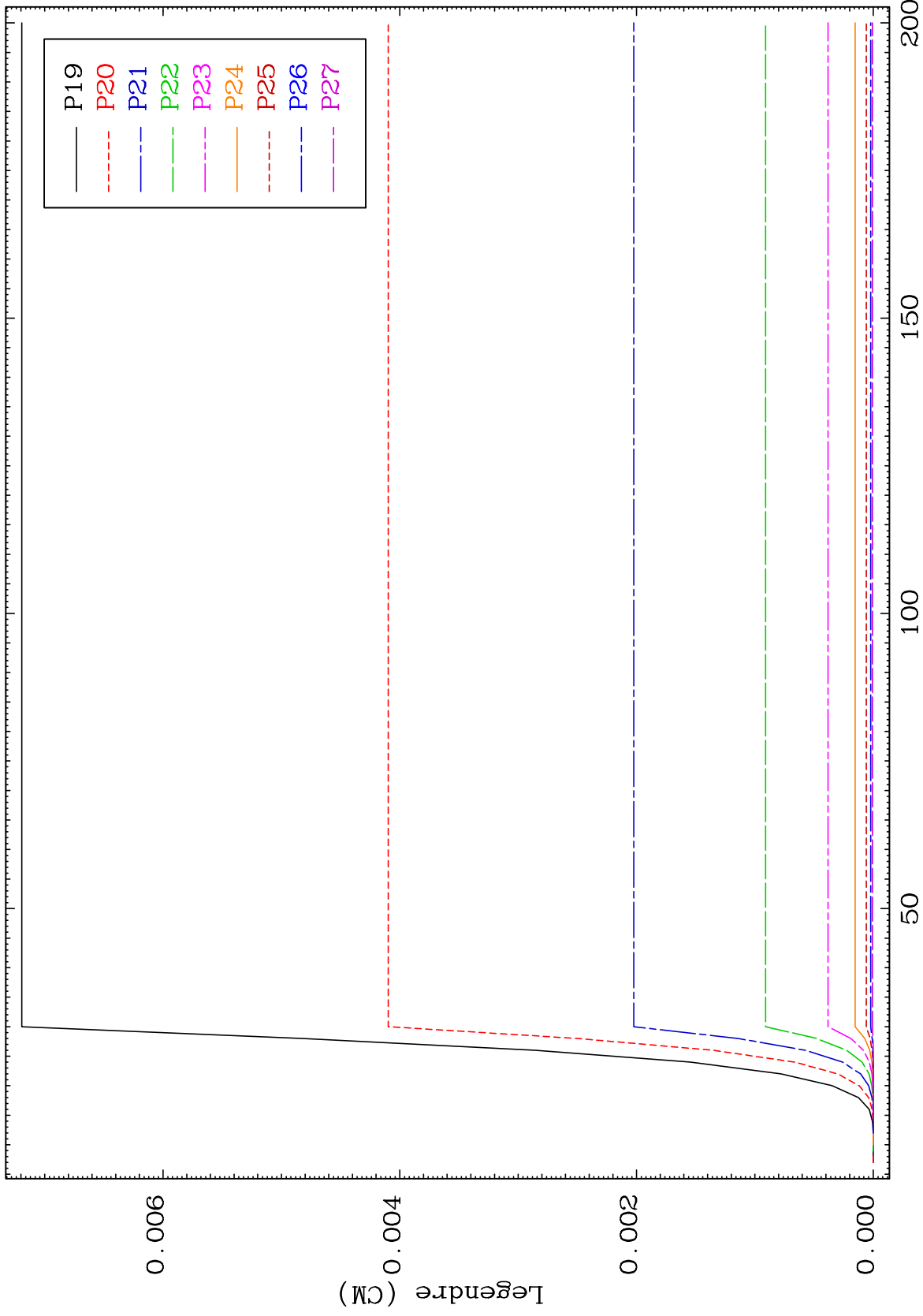




MAT 5116

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

51-Sb-118



117

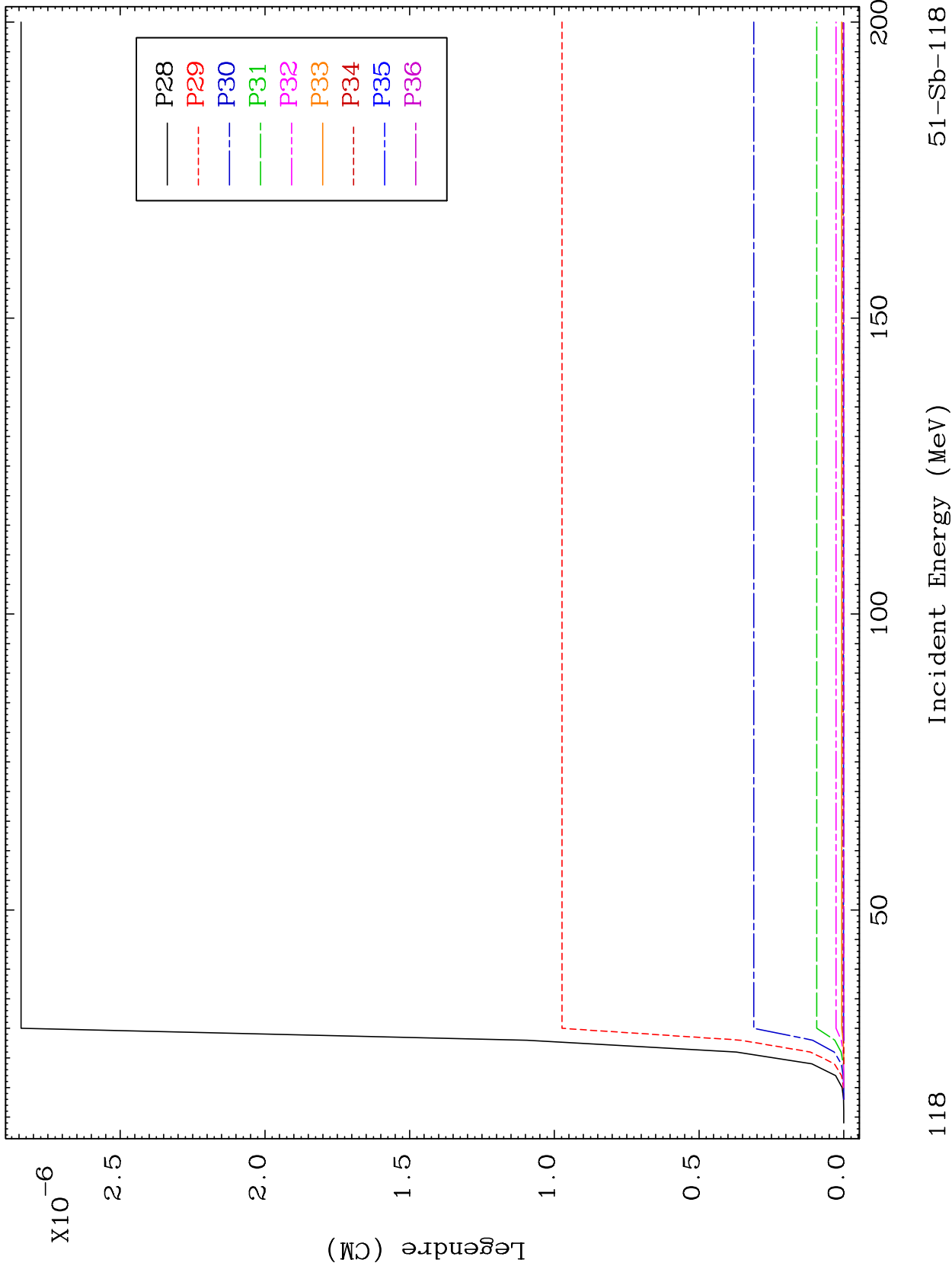
Incident Energy (MeV)

51-Sb-118

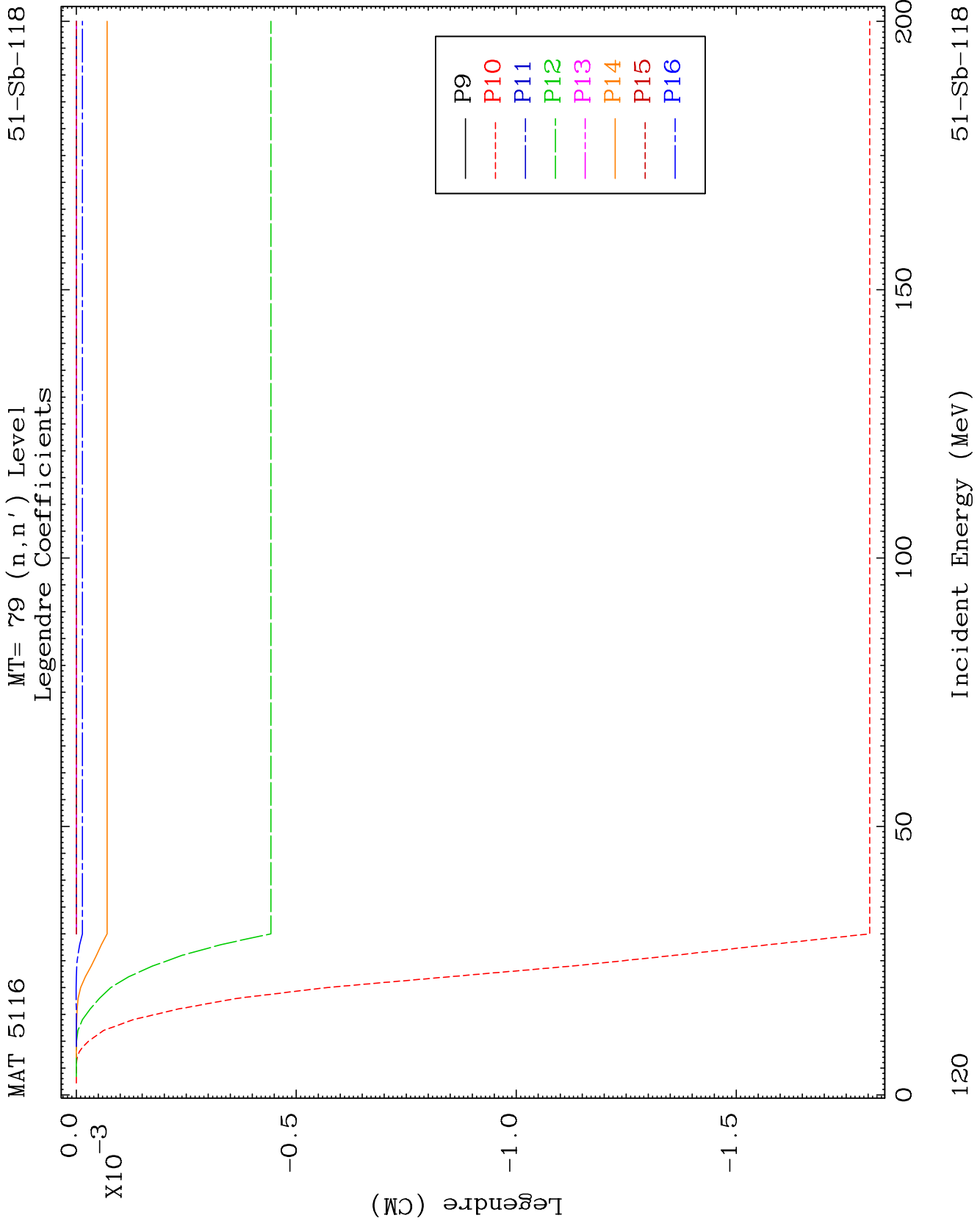
MAT 5116

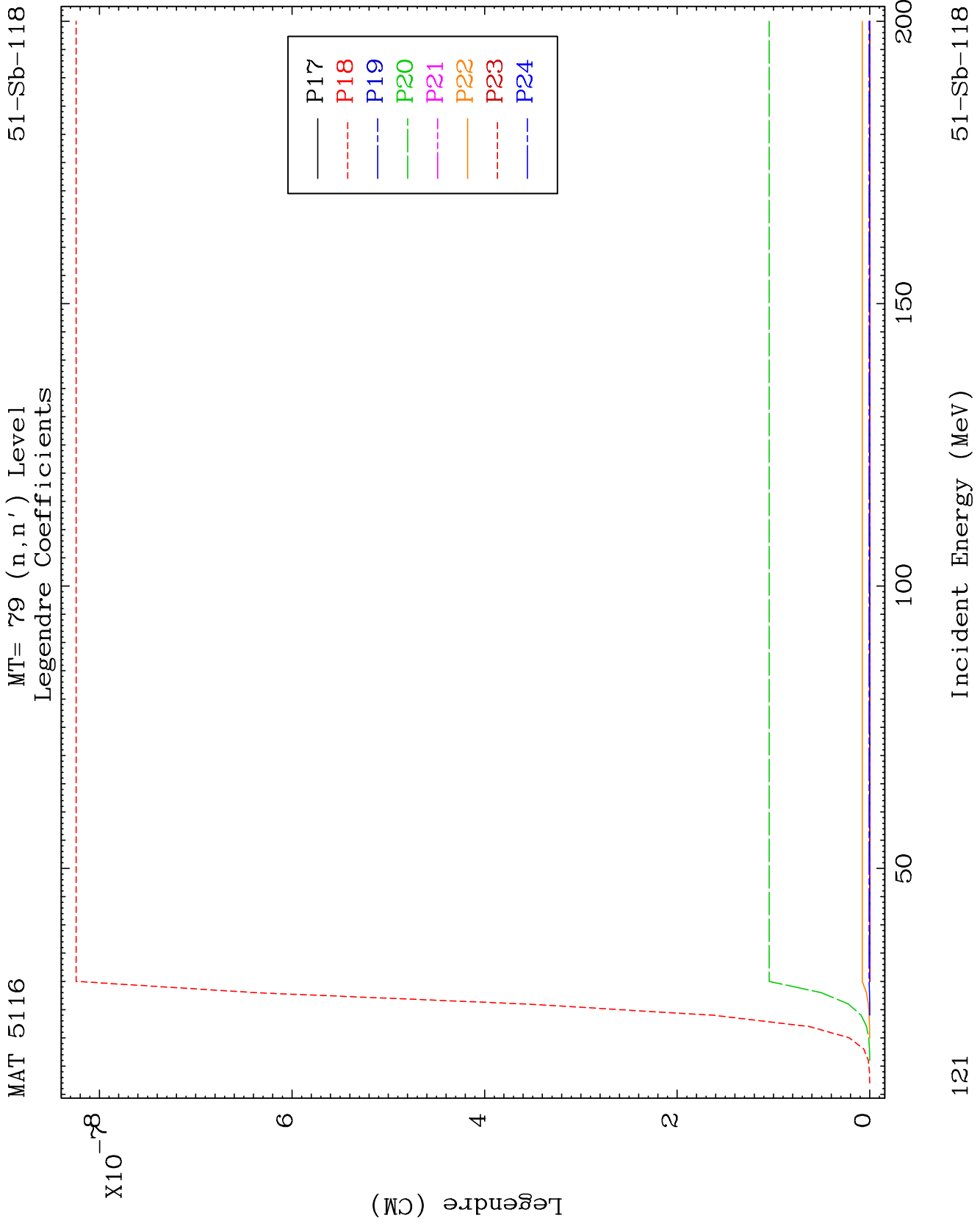
MT= 78 (n,n') Level  
Legendre Coefficients

51-Sb-118

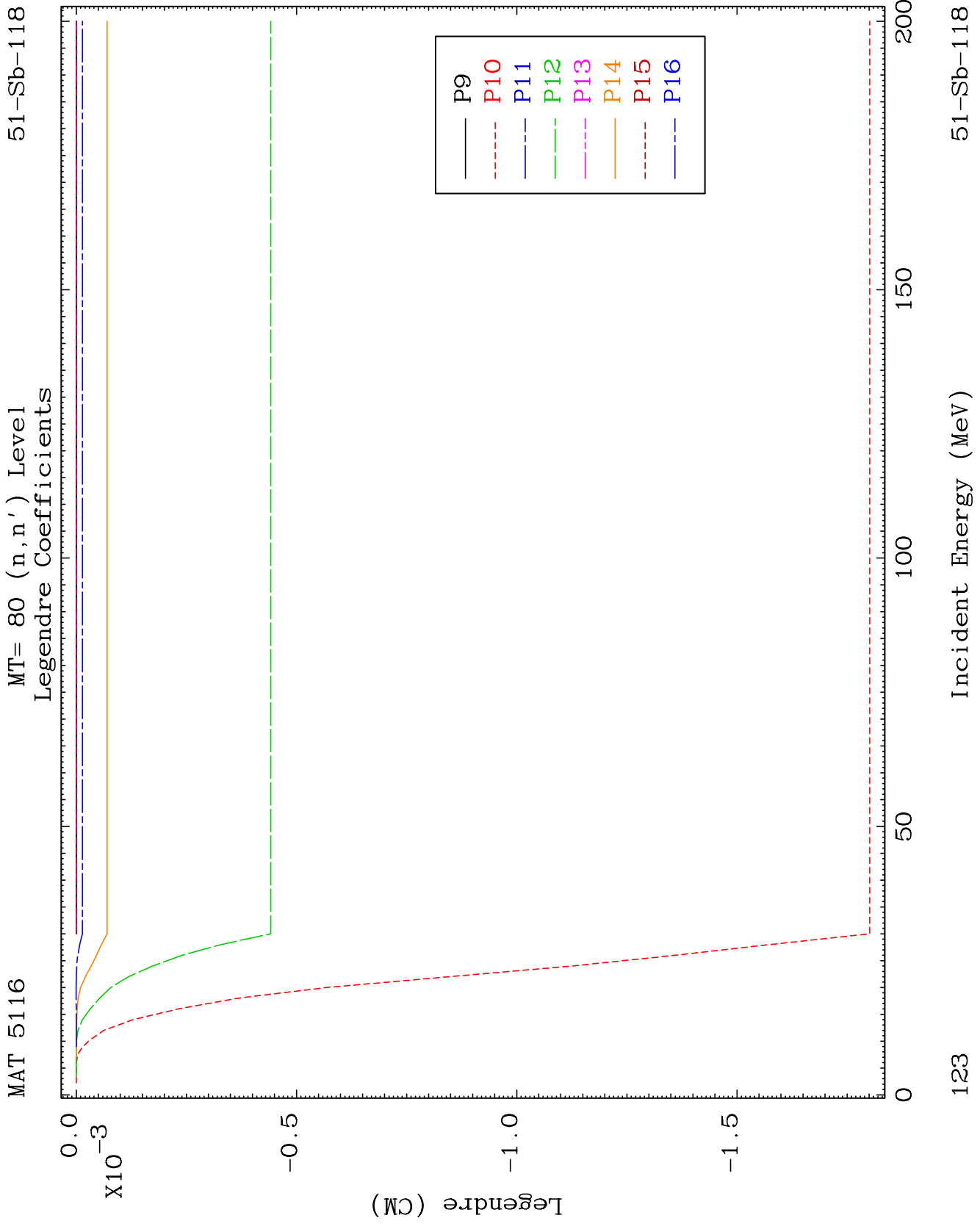


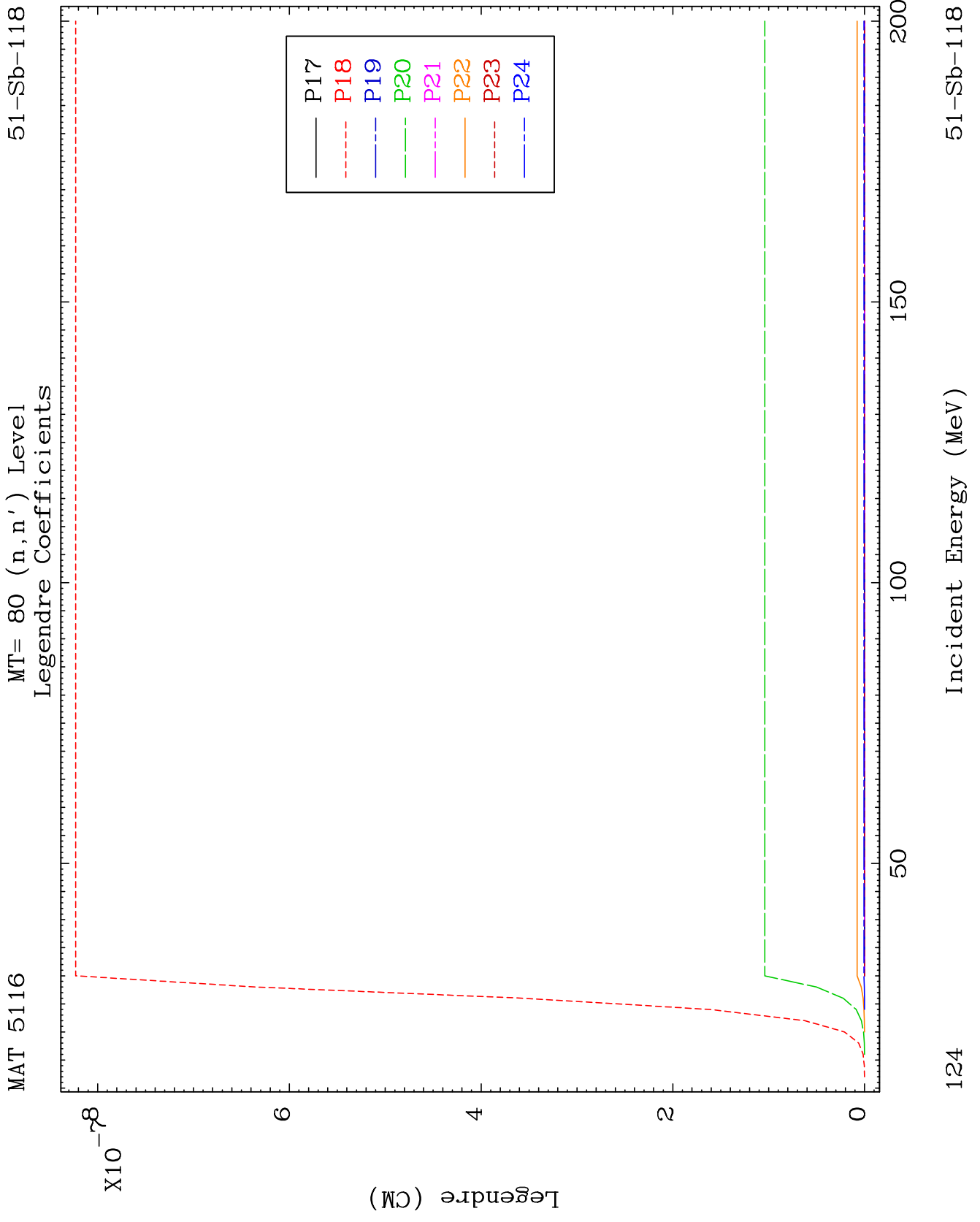








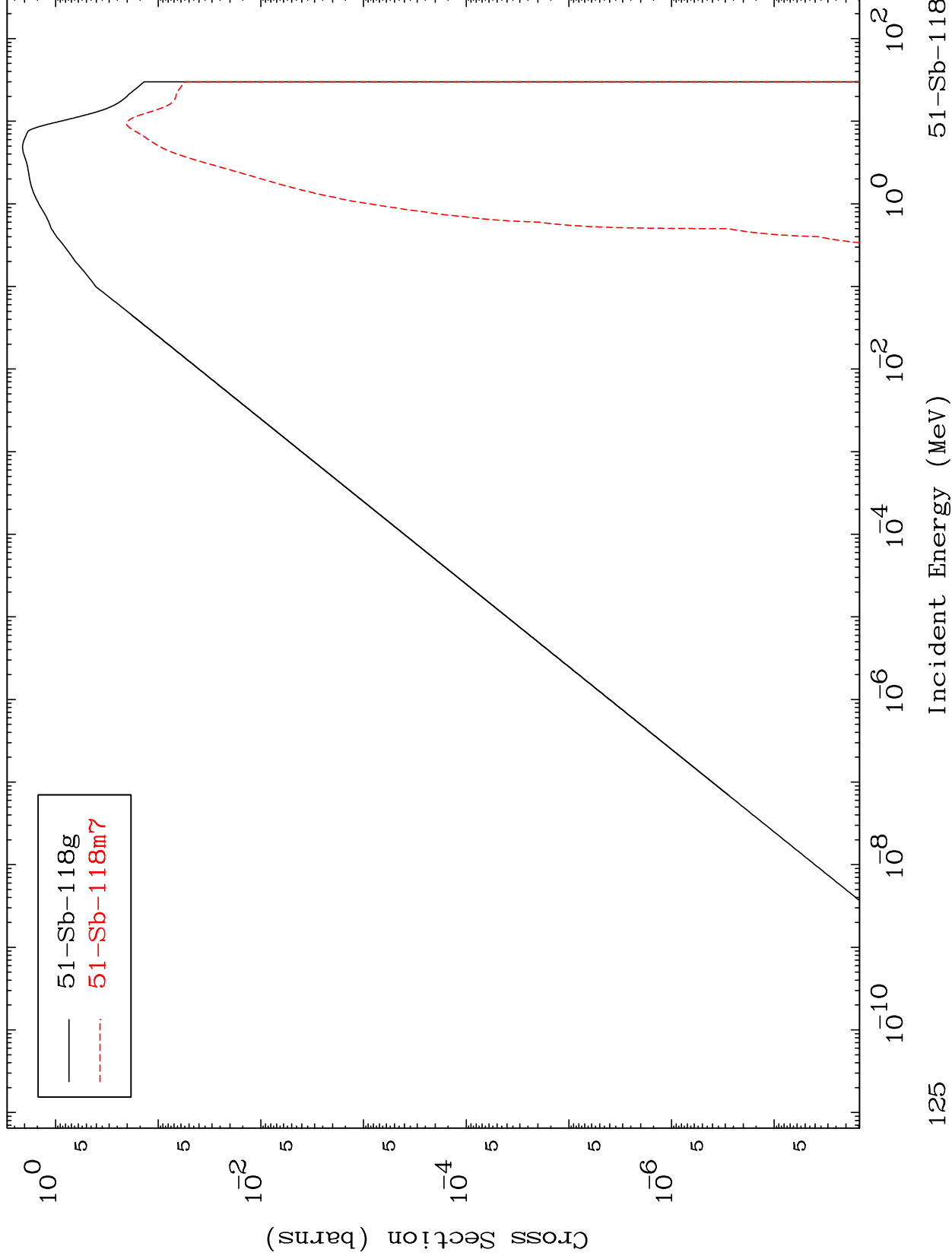




MAT 5116

Inelastic  
Radionuclide Production Cross Section

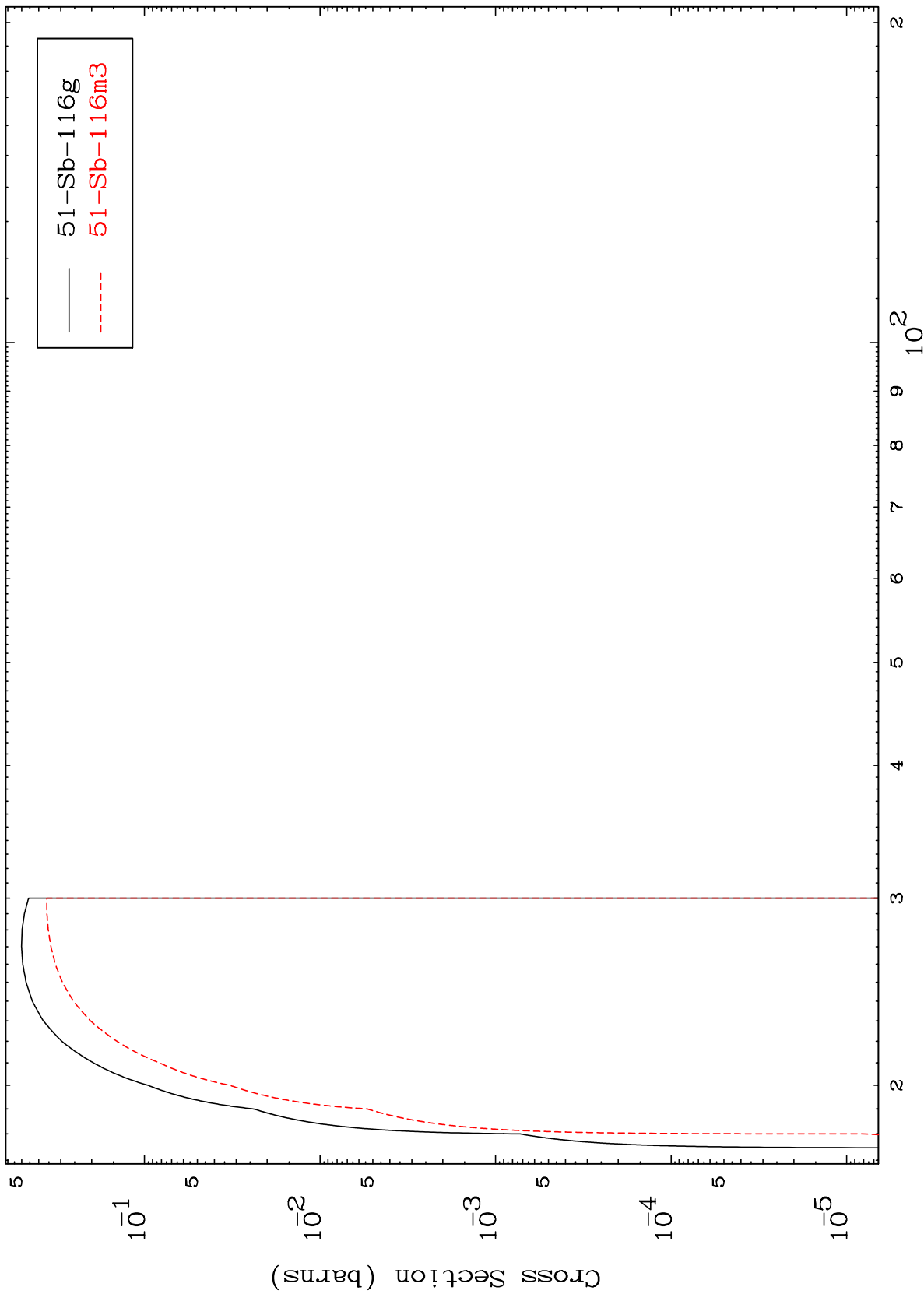
51-Sb-118



125

51-Sb-118

(n,3n)  
Radionuclide Production Cross Section



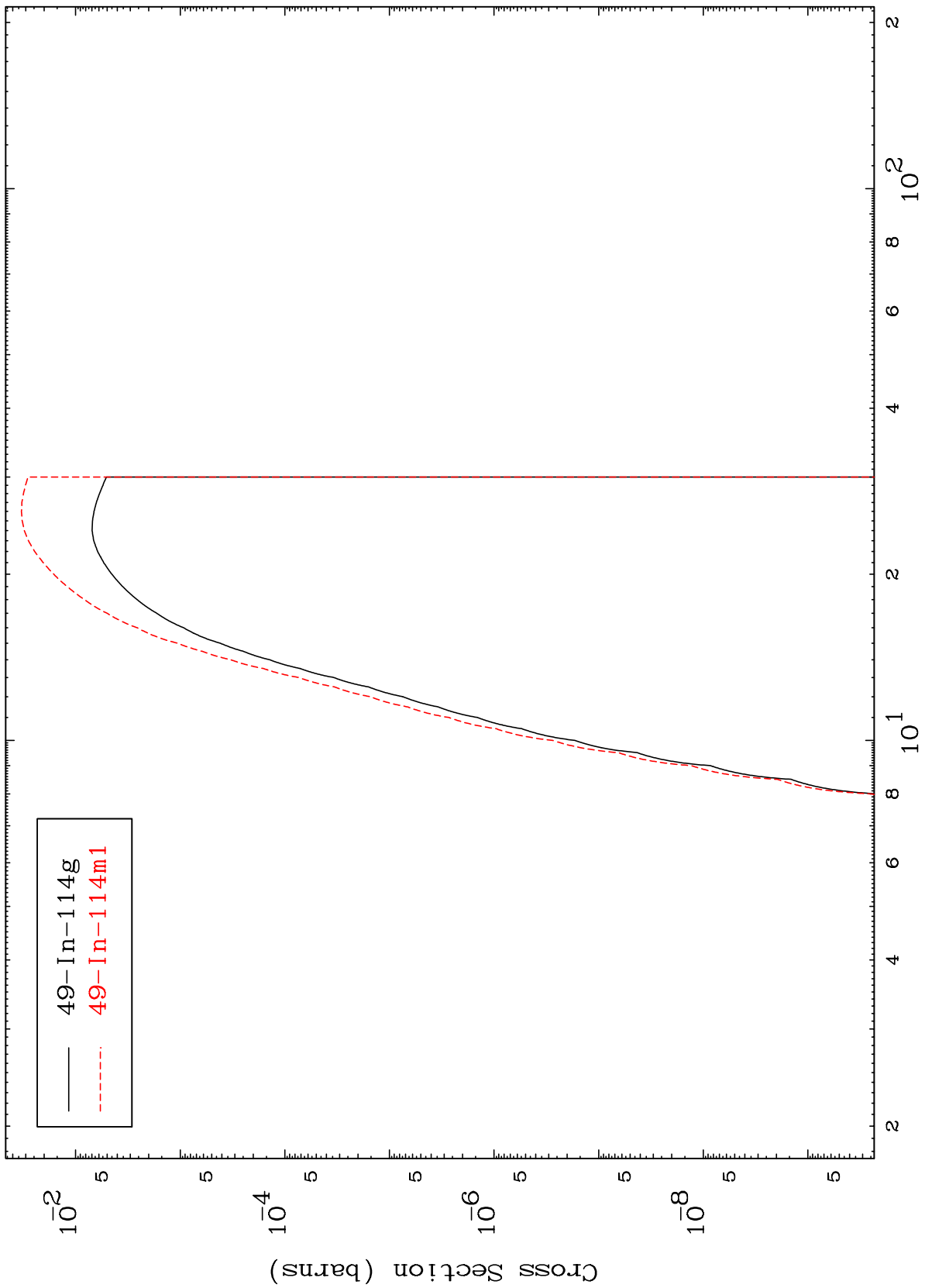
51-Sb-116g  
51-Sb-116m3

MAT 51116

51-Sb-118

(n,n')  $\alpha$

Radionuclide Production Cross Section



127

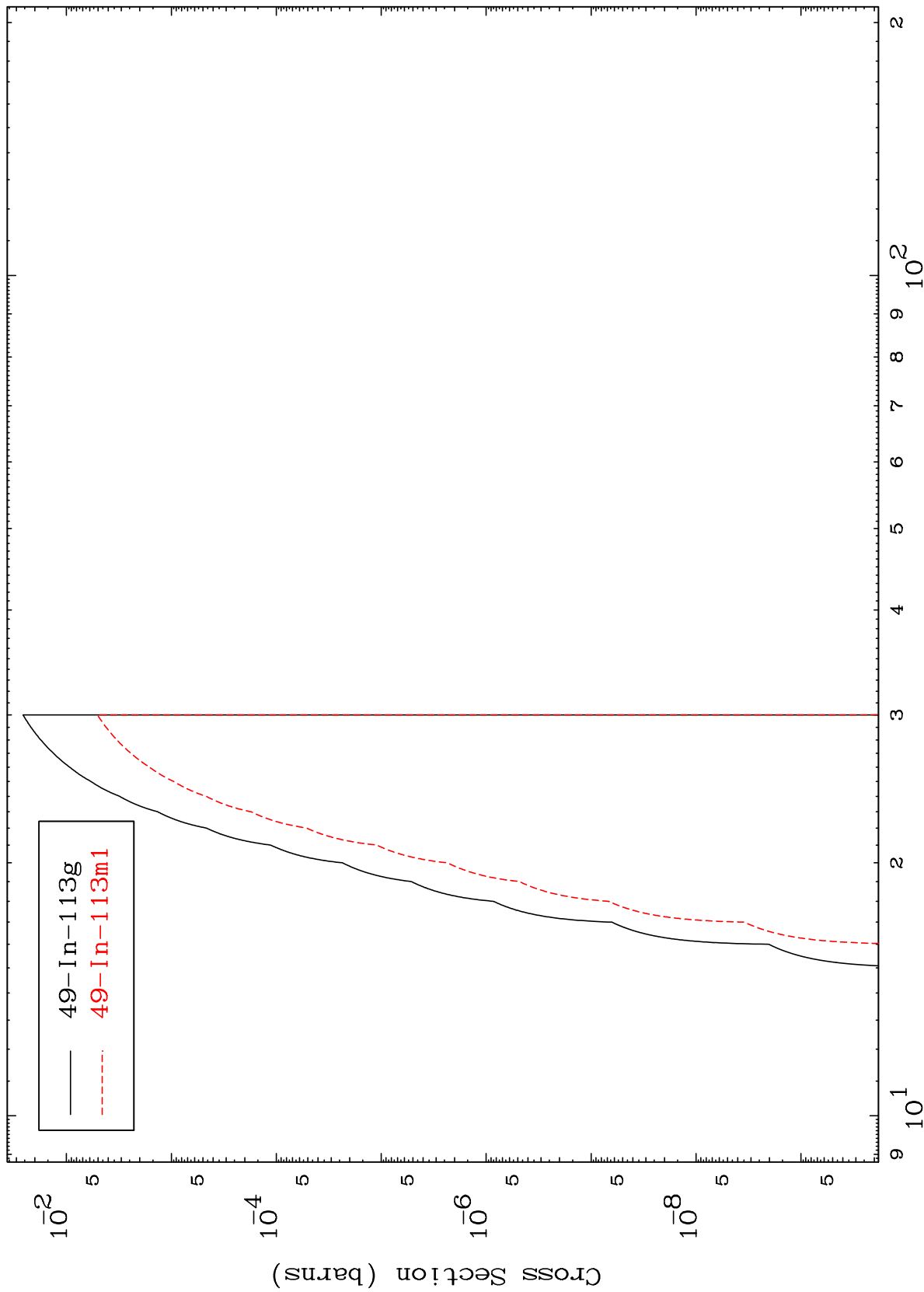
51-Sb-118

MAT 5116

(n,2n)  $\alpha$

51-Sb-118

Radionuclide Production Cross Section



Incident Energy (MeV)

51-Sb-118

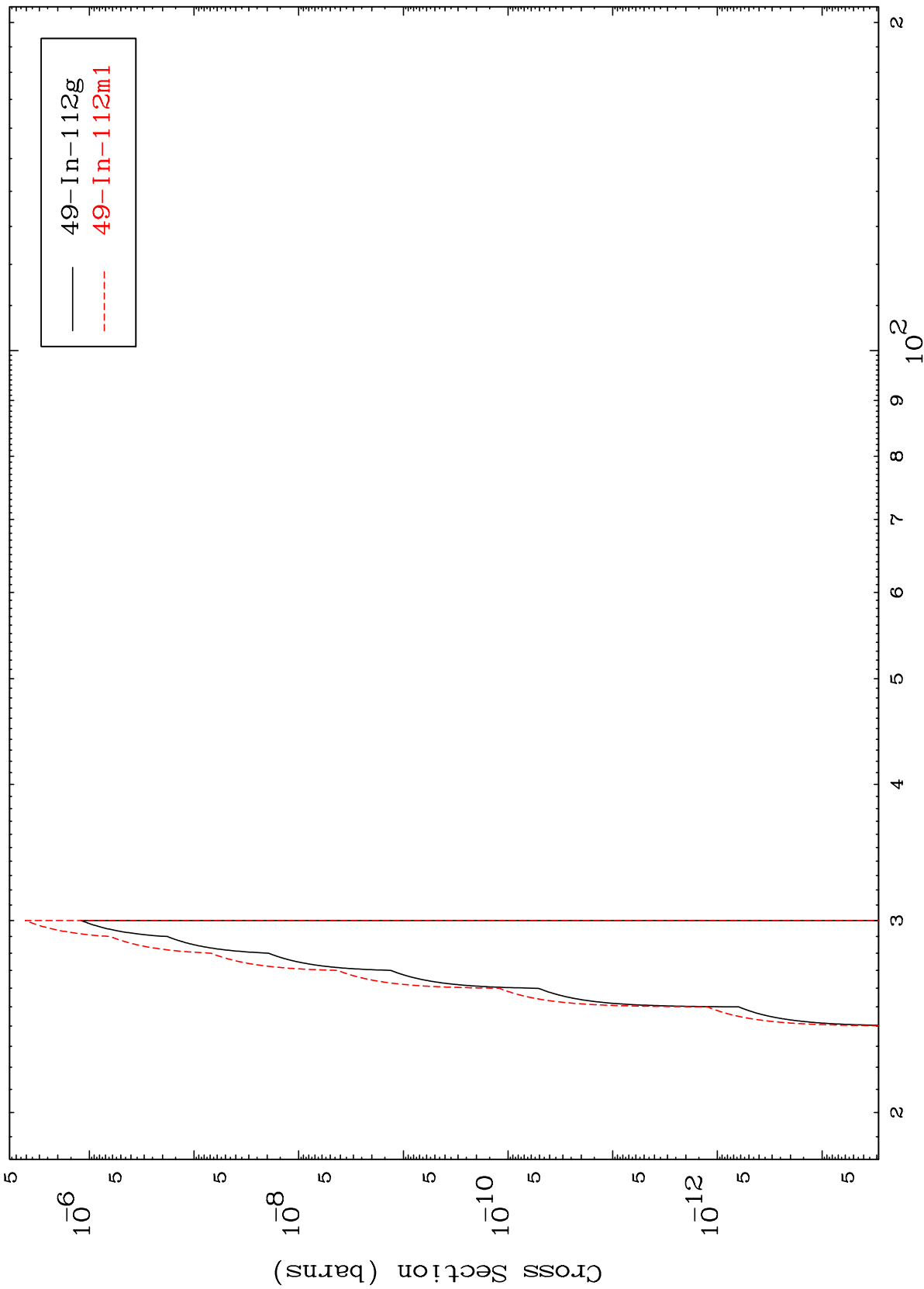
128

MAT 51116

(n,3n)  $\alpha$

51-Sb-118

Radionuclide Production Cross Section



129

Incident Energy (MeV)

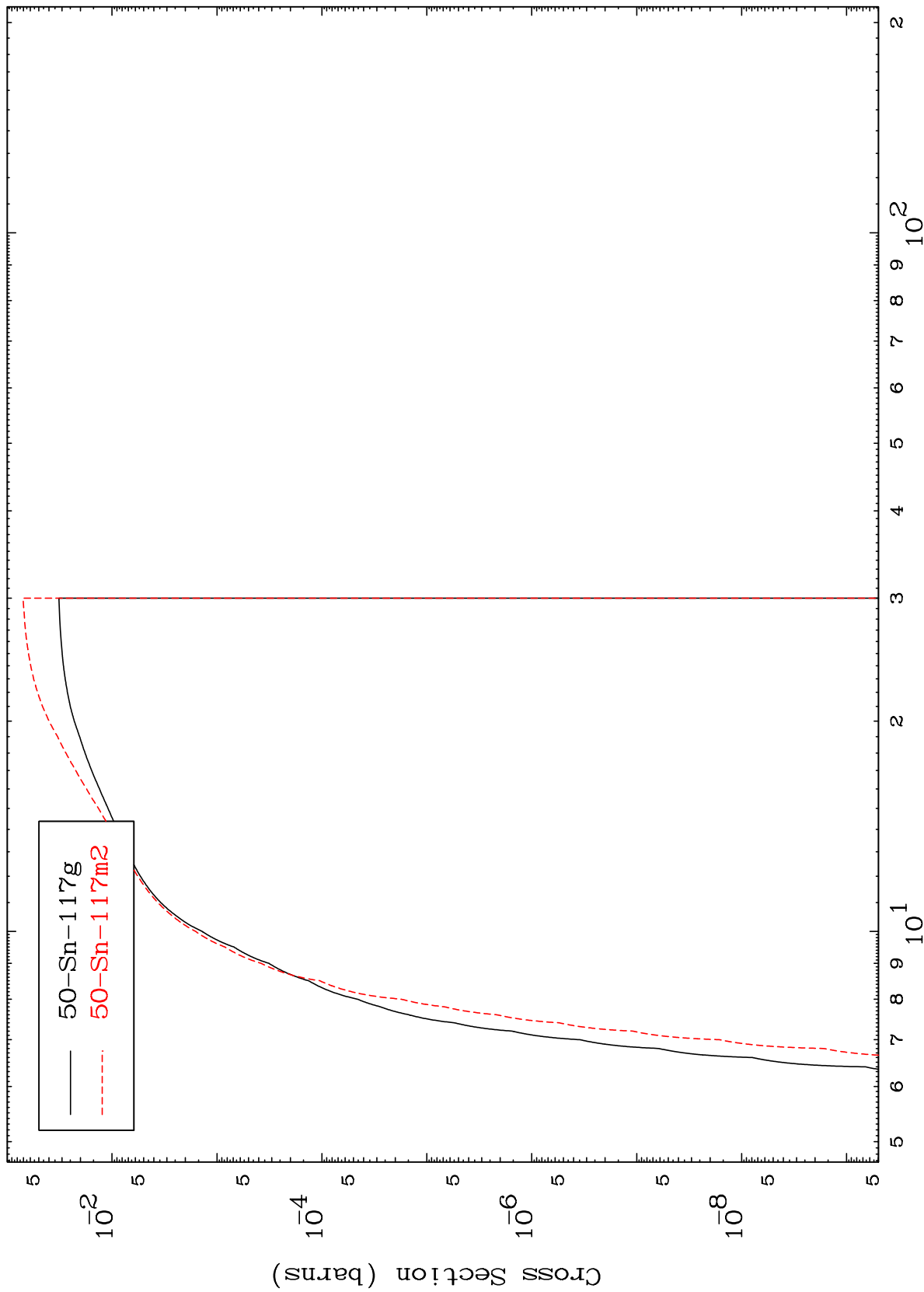
51-Sb-118

MAT 5116

(n,n') p

51-Sb-118

Radionuclide Production Cross Section



130

Incident Energy (MeV)

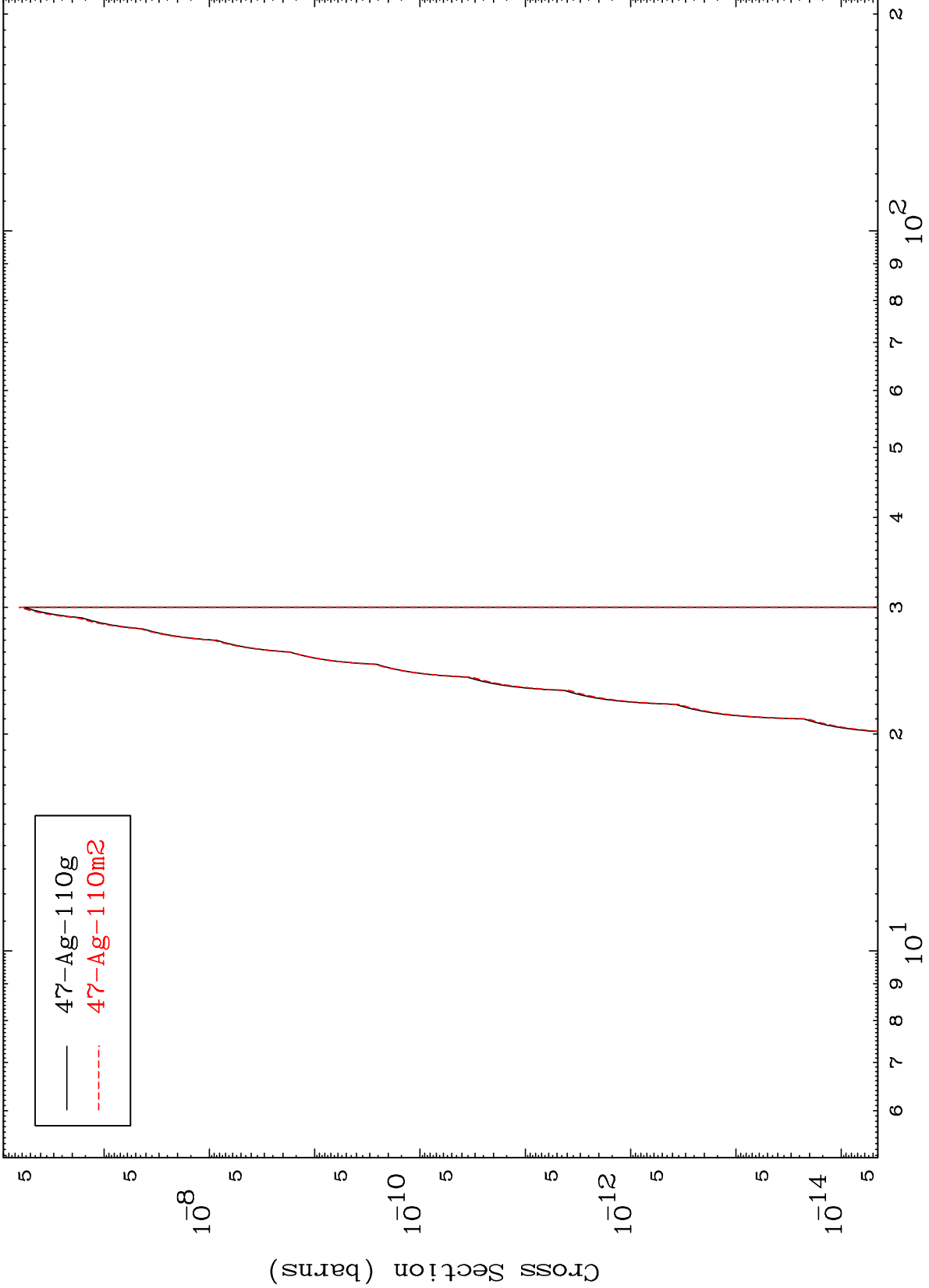
51-Sb-118

MAT 5116

(n,n') 2α

51-Sb-118

Radionuclide Production Cross Section

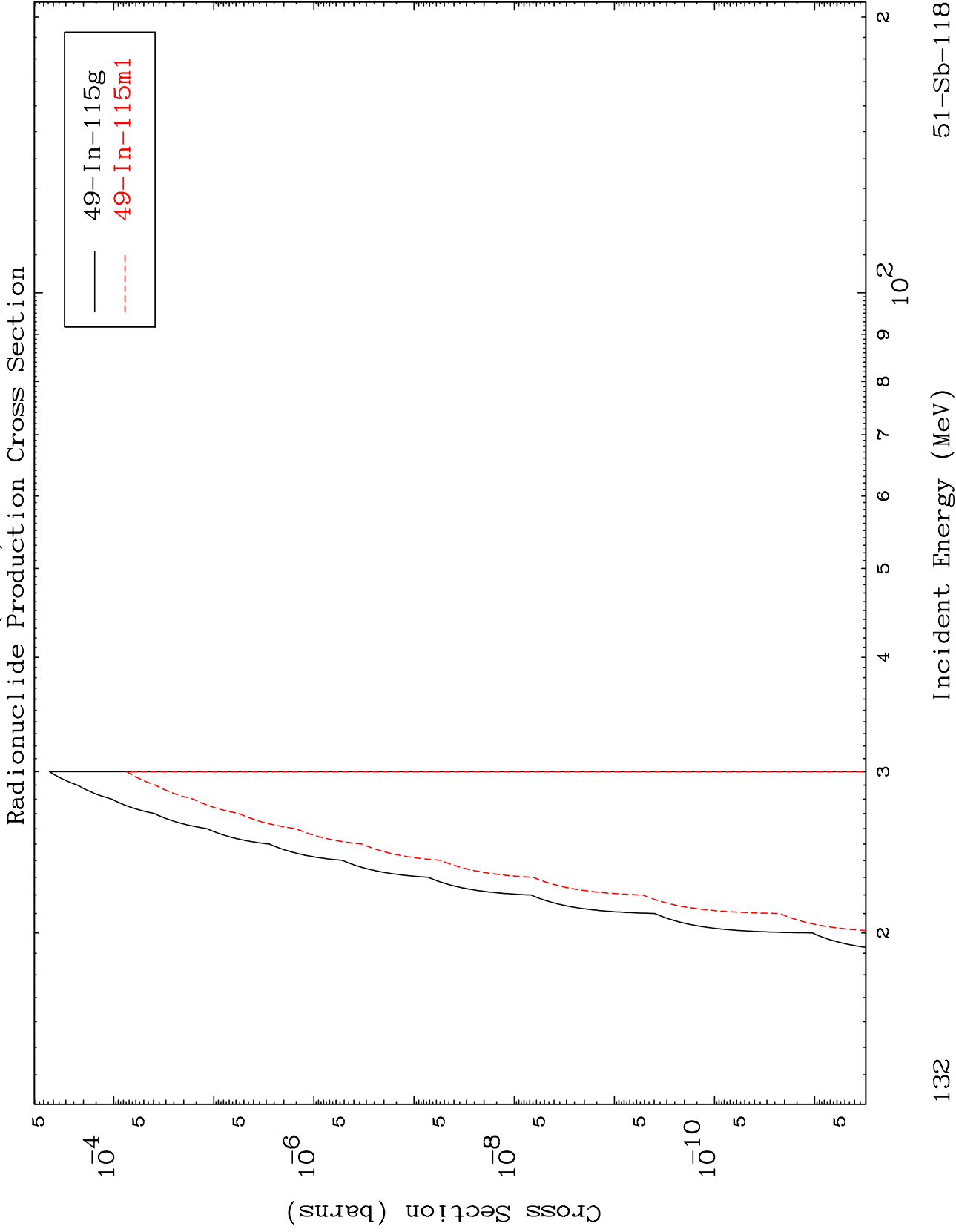


— 47-Ag-110g  
- - - 47-Ag-110m2

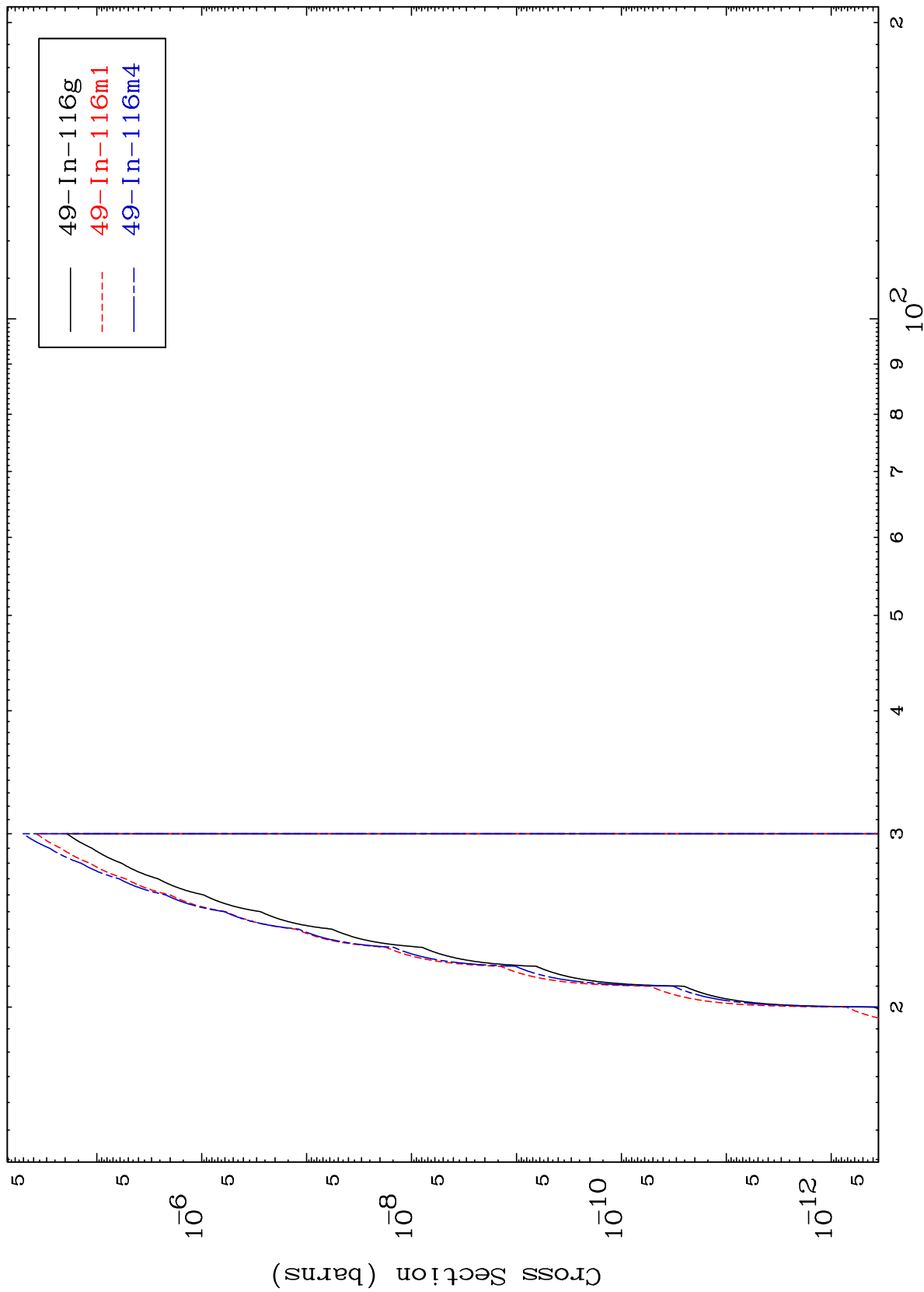
131

Incident Energy (MeV)

51-Sb-118



Radionuclide Production Cross Section

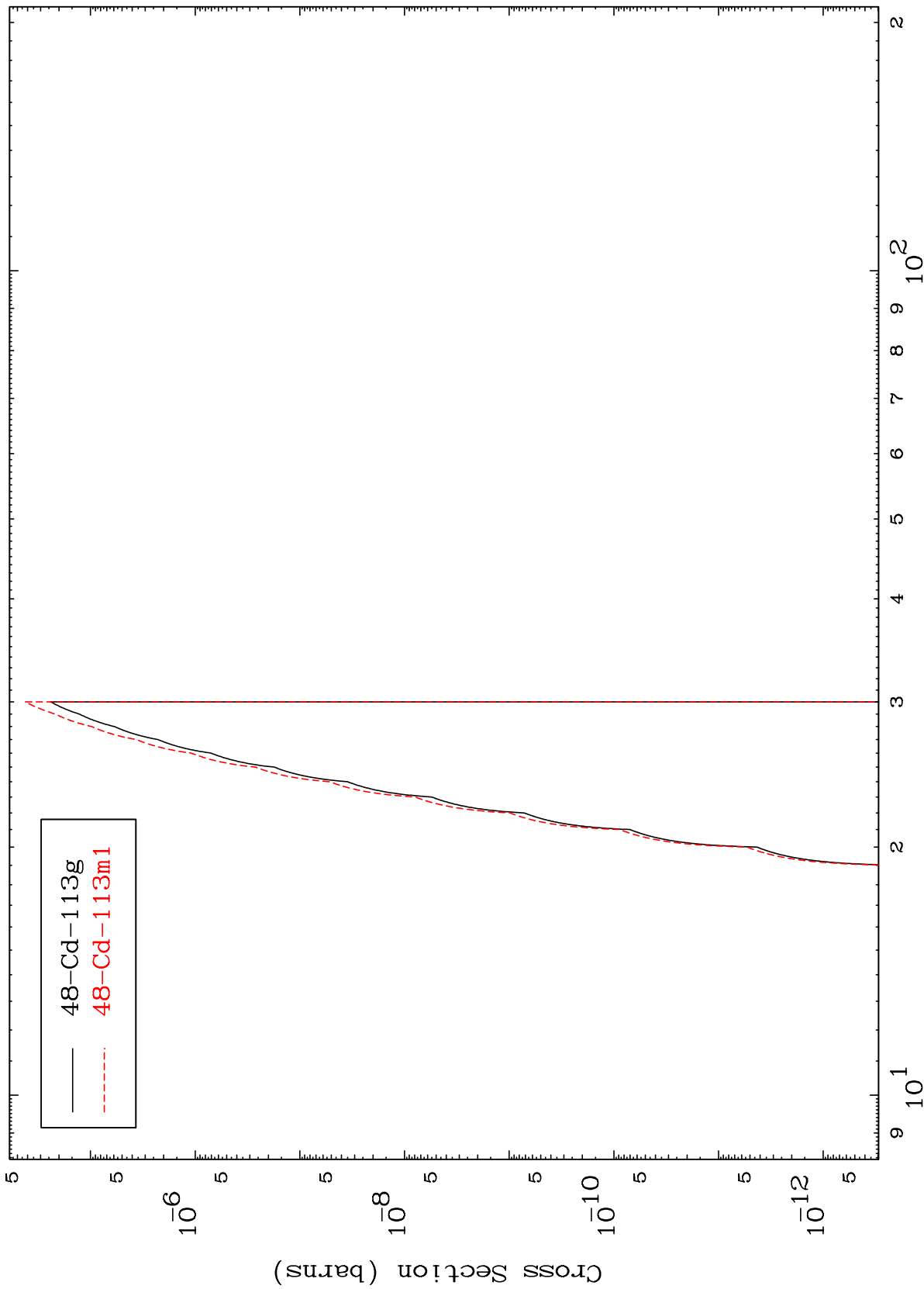


MAT 5116

(n,n') p  $\alpha$

51-Sb-118

Radionuclide Production Cross Section



134

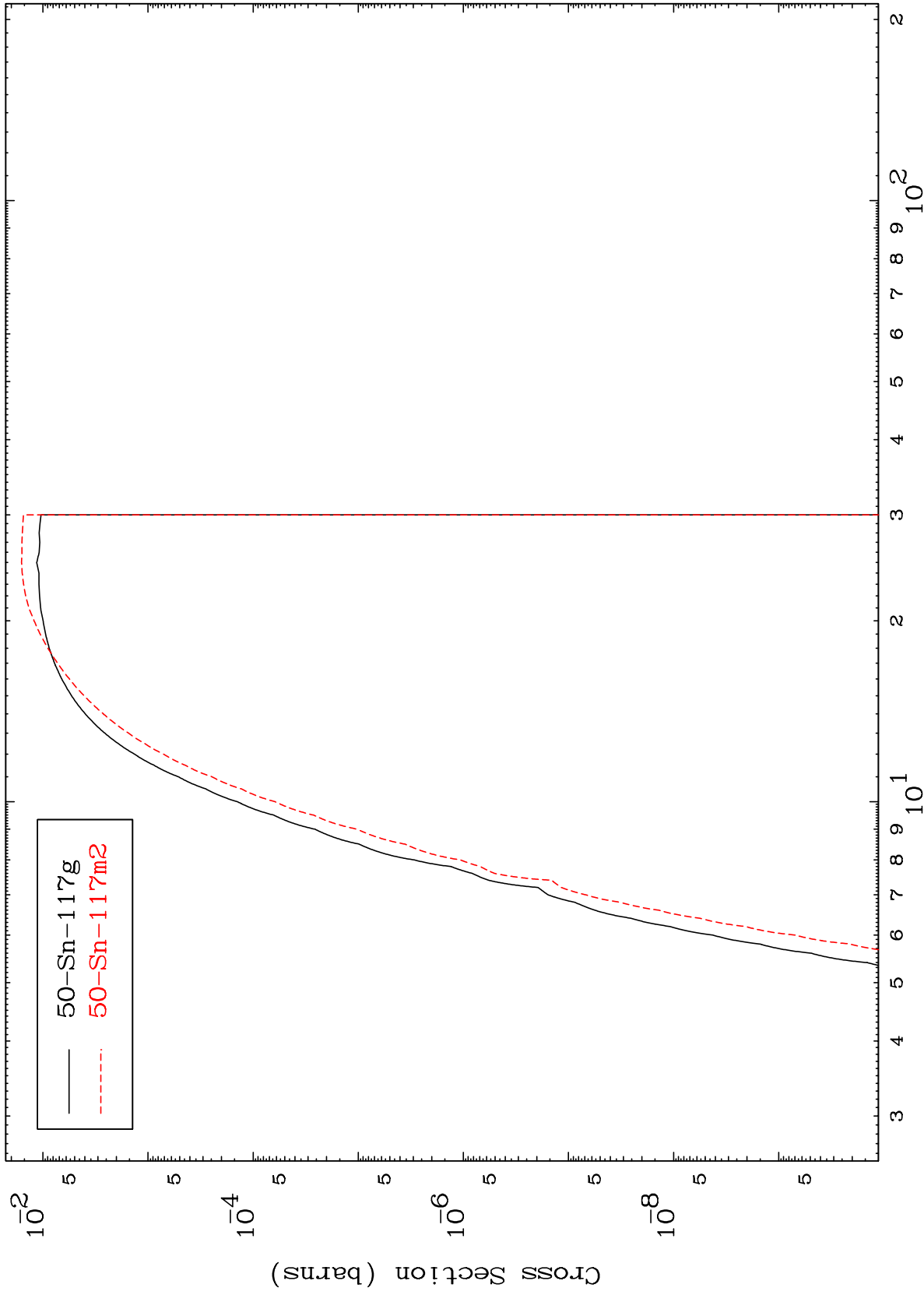
Incident Energy (MeV)

51-Sb-118

MAT 5116

51-Sb-118

(n,d)  
Radionuclide Production Cross Section

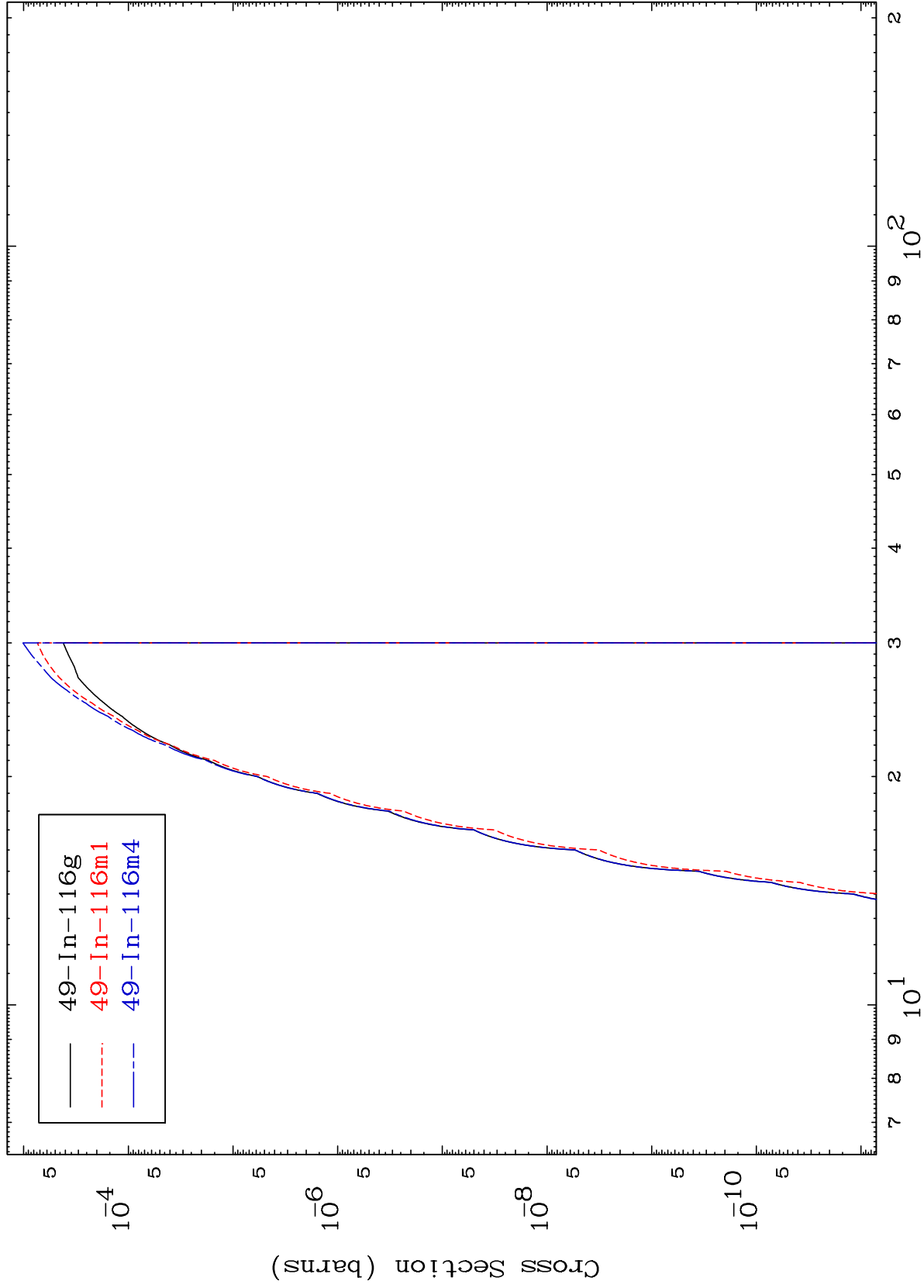


51-Sb-118

Incident Energy (MeV)

135

Radionuclide Production Cross Section

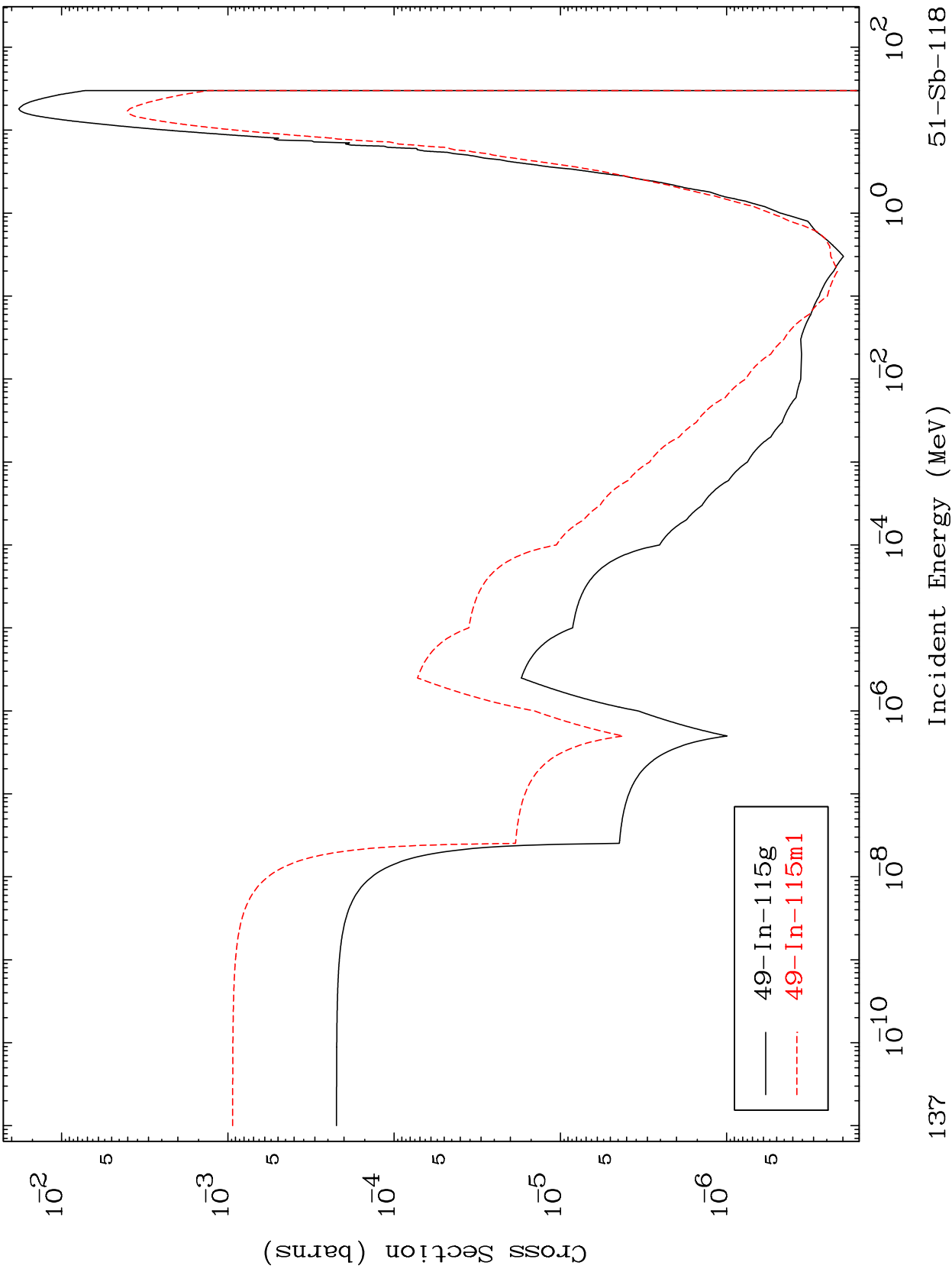


MAT 5116

(n,  $\alpha$ )

51-Sb-118

Radionuclide Production Cross Section

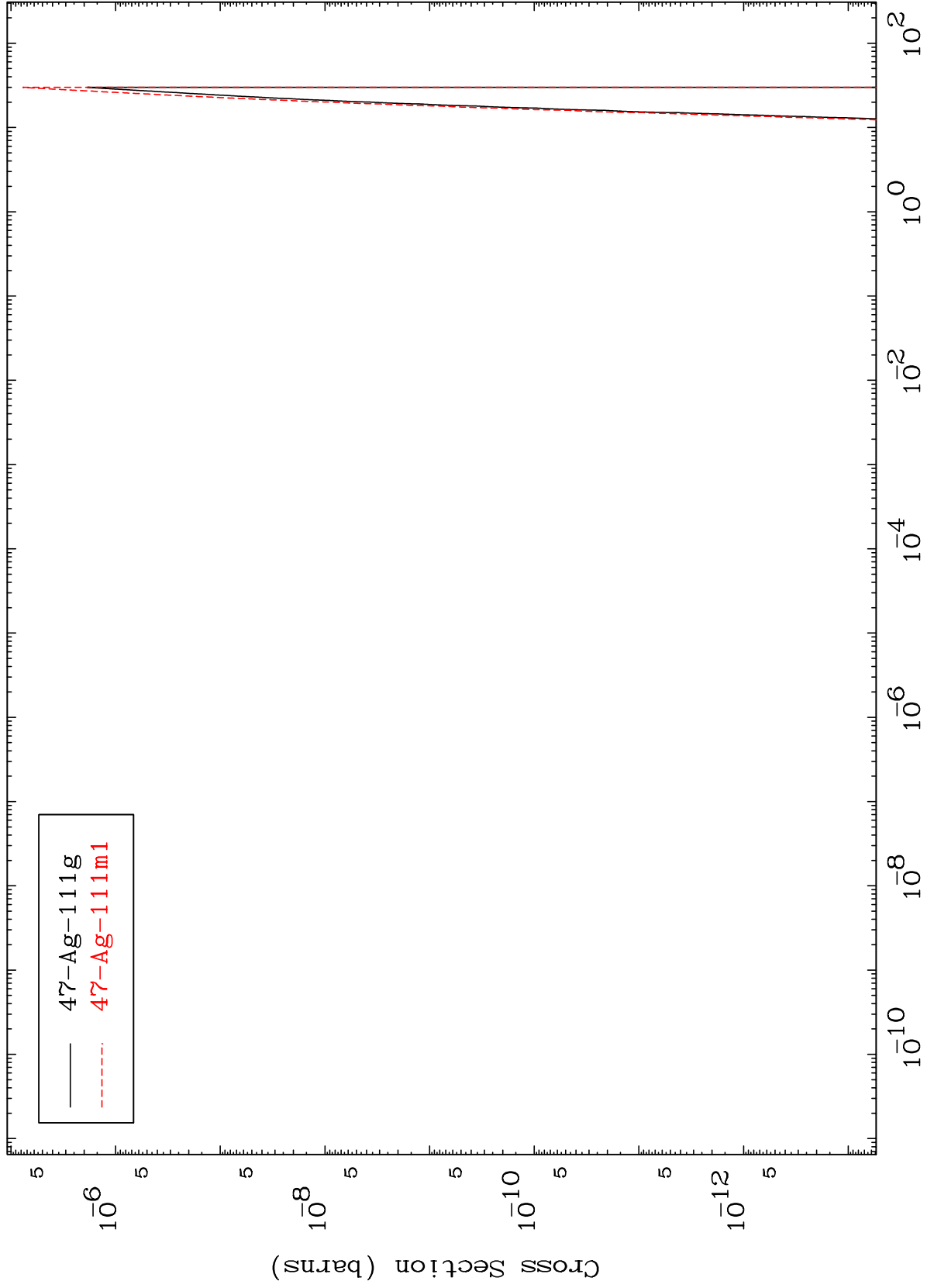


MAT 5116

(n,2α)

51-Sb-118

Radionuclide Production Cross Section



138

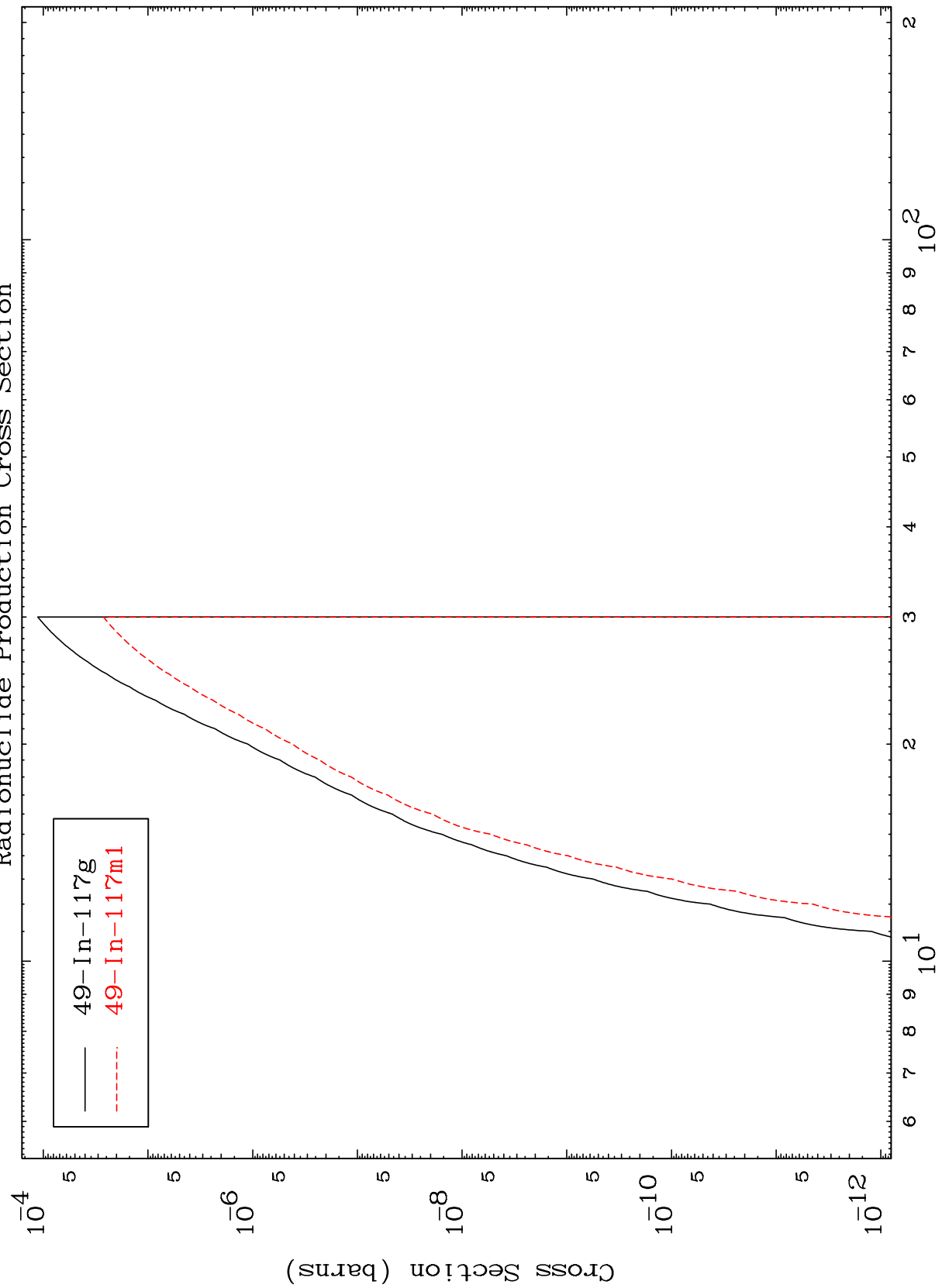
Incident Energy (MeV)

51-Sb-118

MAT 5116

51-Sb-118

(n,2p)  
Radionuclide Production Cross Section



— 49-In-117g  
- - - 49-In-117m1

51-Sb-118

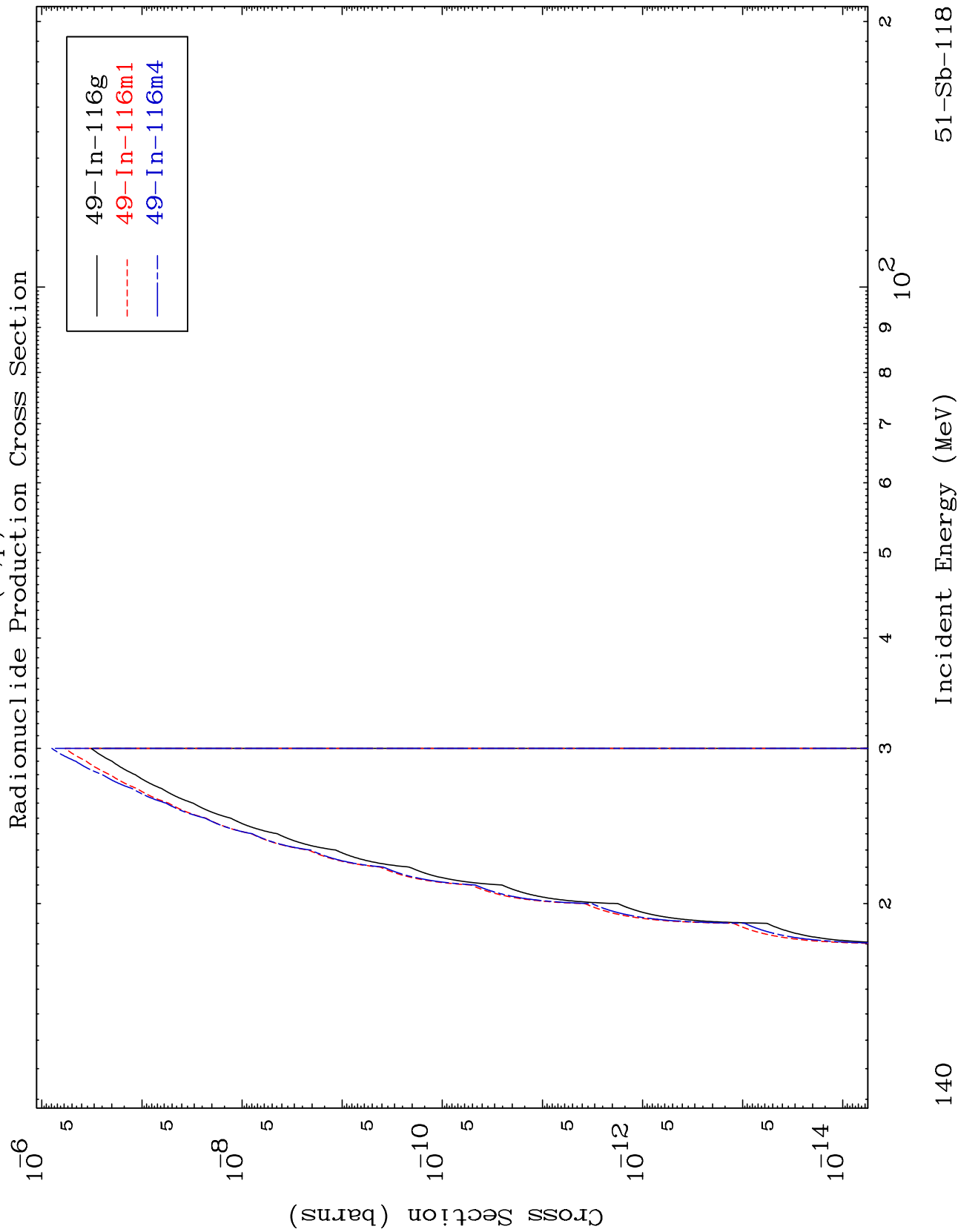
Incident Energy (MeV)

139

MAT 5116

(n,p) d

51-Sb-118



140

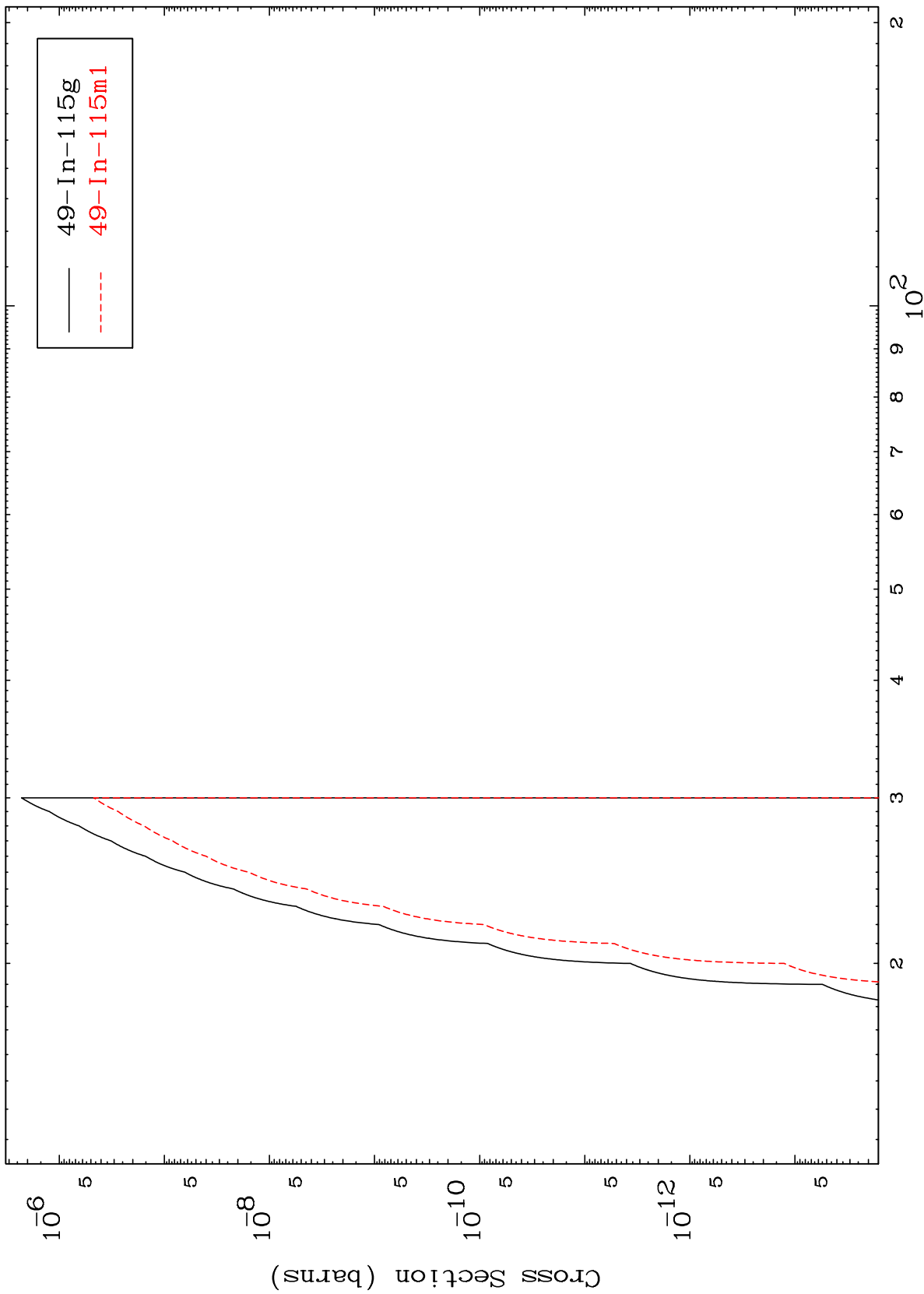
51-Sb-118

MAT 51116

(n,p) t

51-Sb-118

Radionuclide Production Cross Section



49-In-115g  
49-In-115m1

141

Incident Energy (MeV)

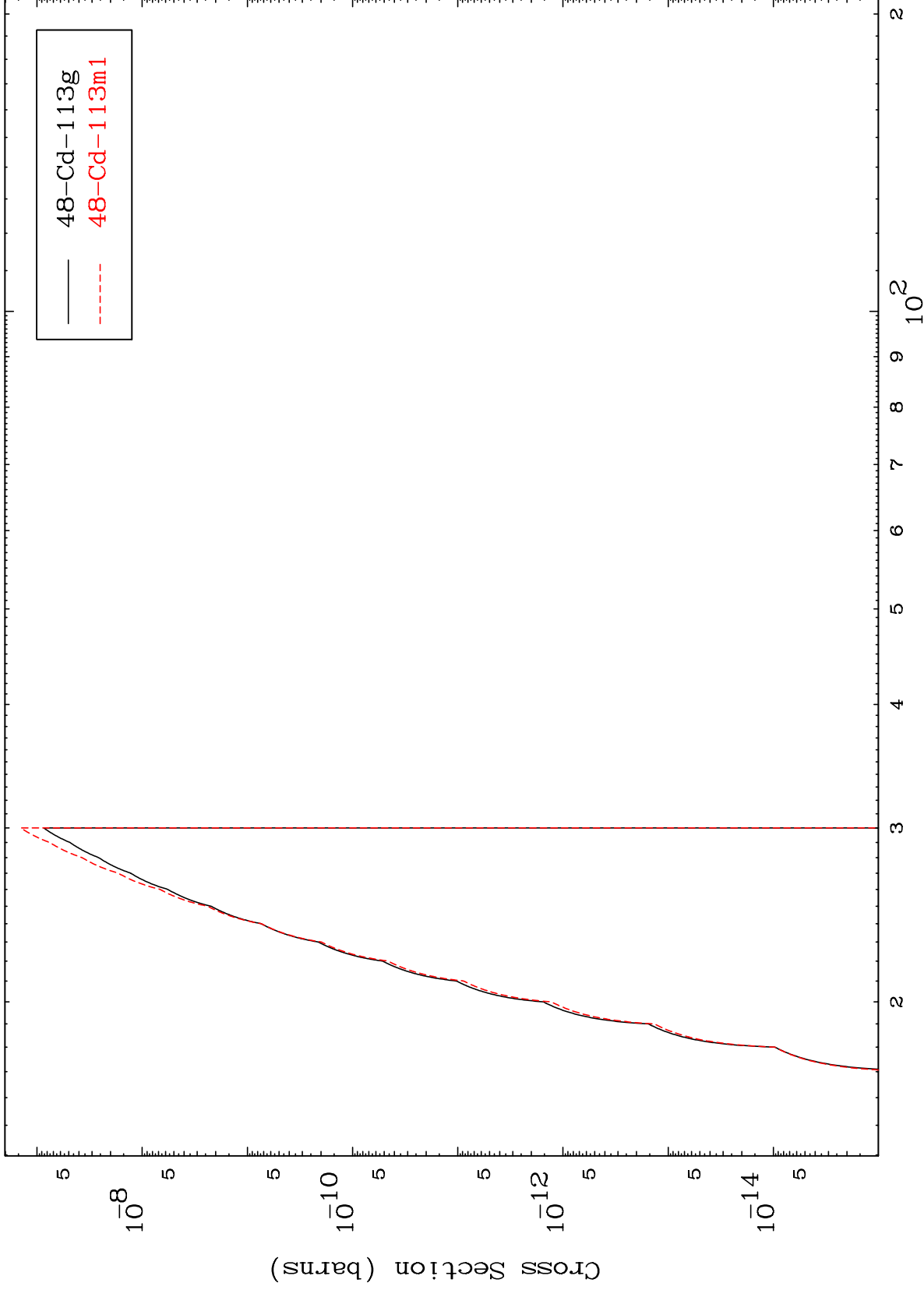
51-Sb-118

MAT 5116

(n,d)  $\alpha$

51-Sb-118

Radionuclide Production Cross Section



142

Incident Energy (MeV)

51-Sb-118