

Program EVALPLOT  
(Version 2021-1)

by

Dermott E. Cullen  
(Present Contact Information)

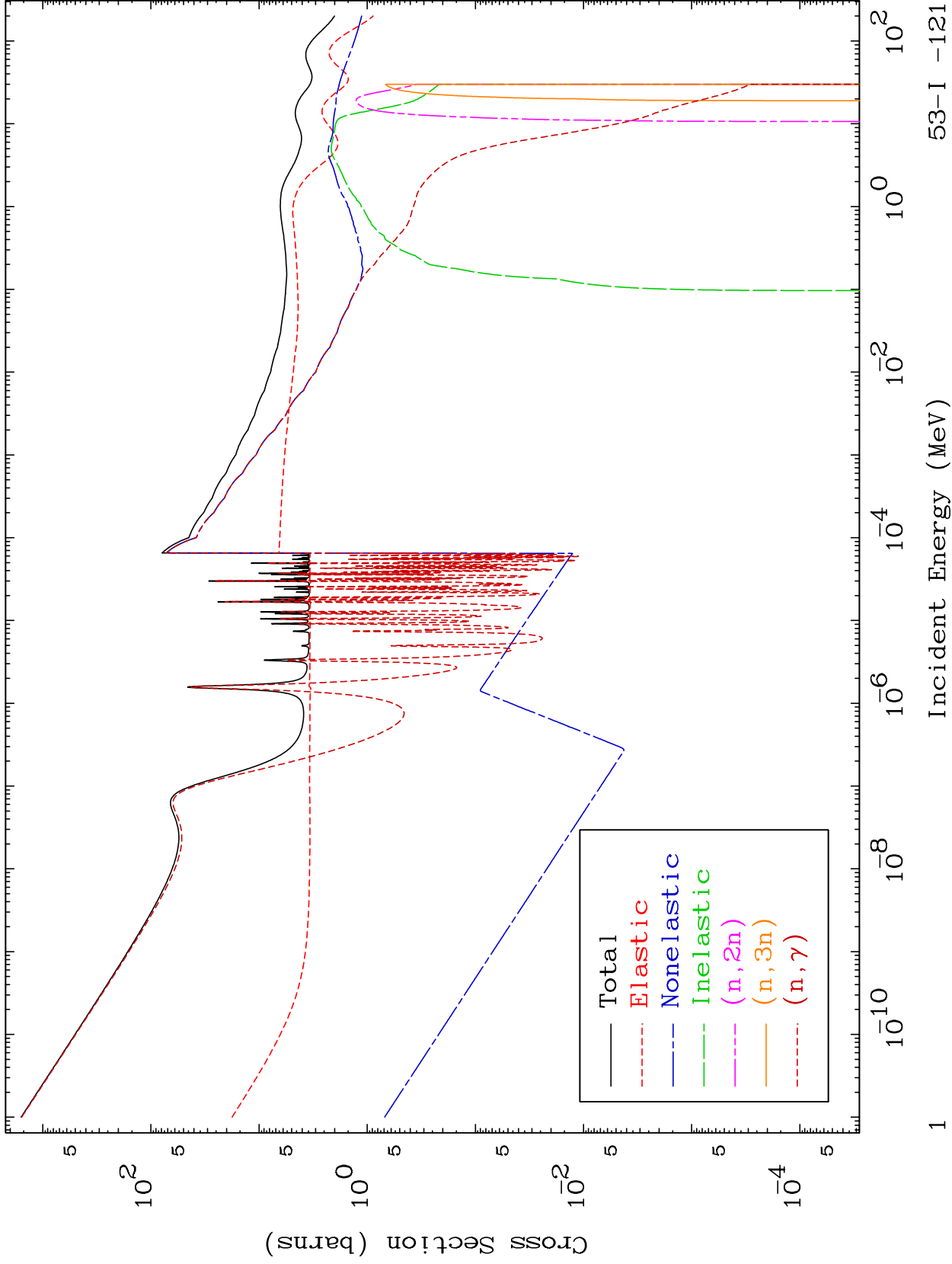
Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550  
U.S.A.

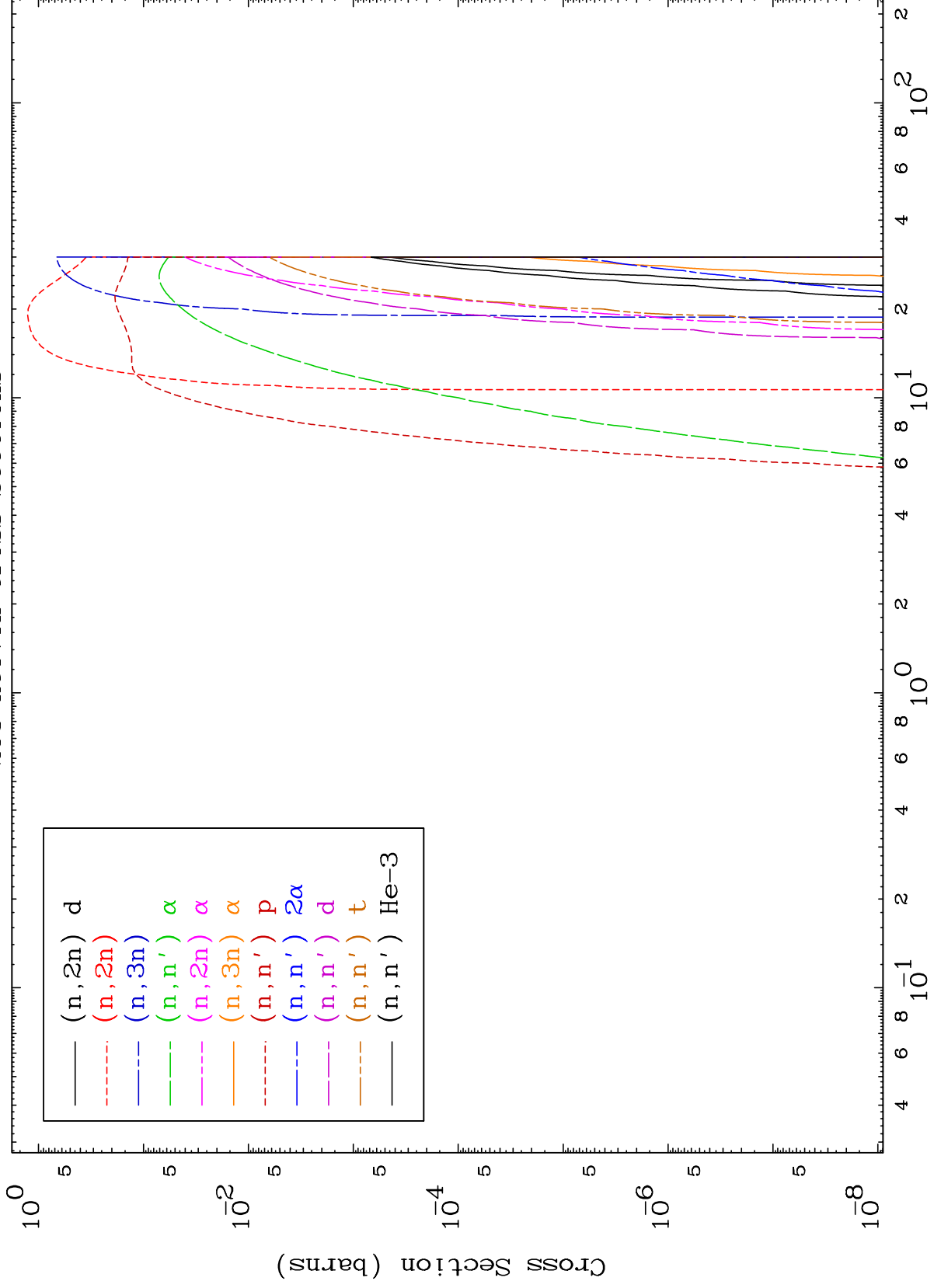
Tele: 925-443-1911

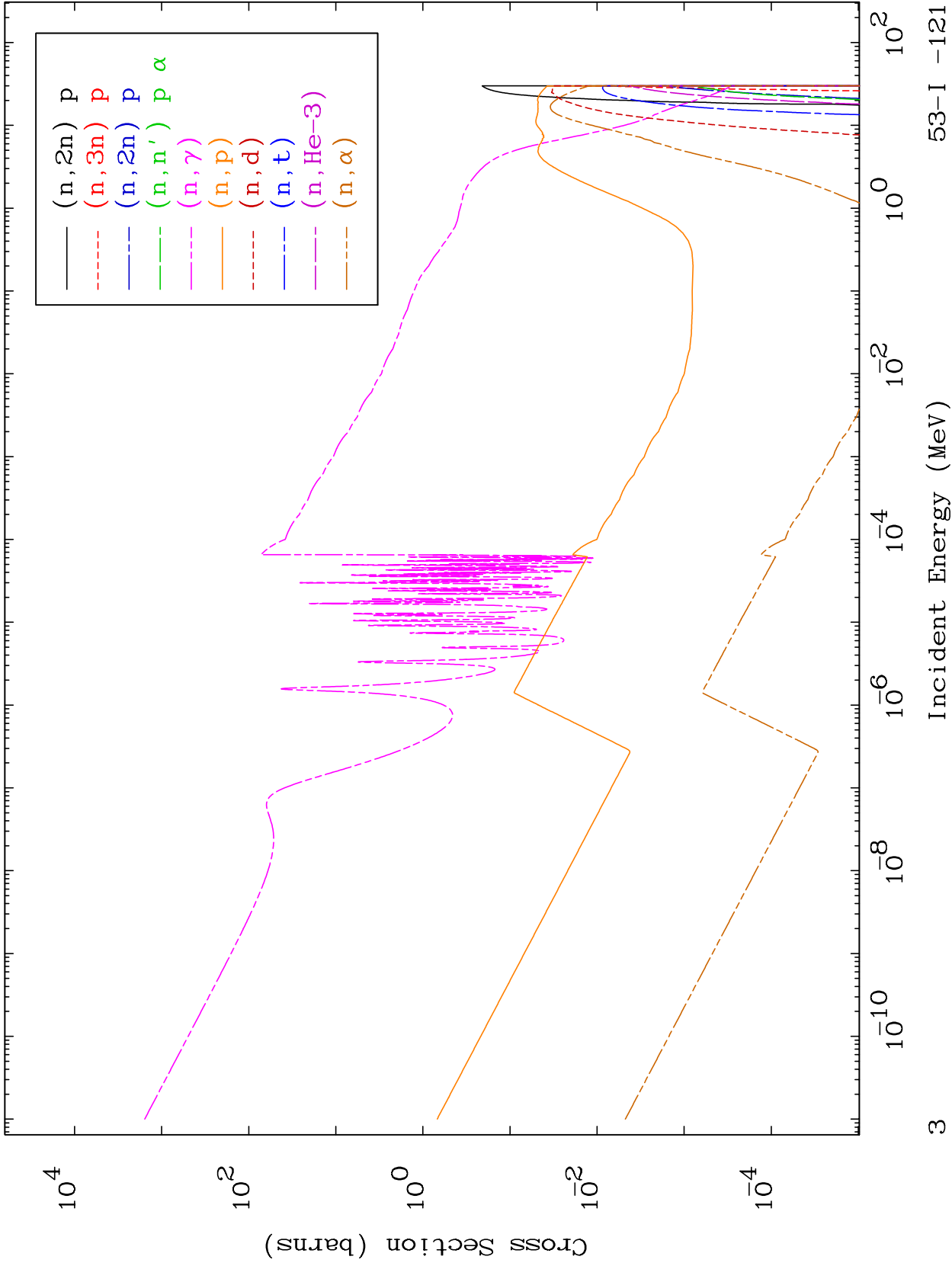
E.Mail:redcullen1@comcast.net

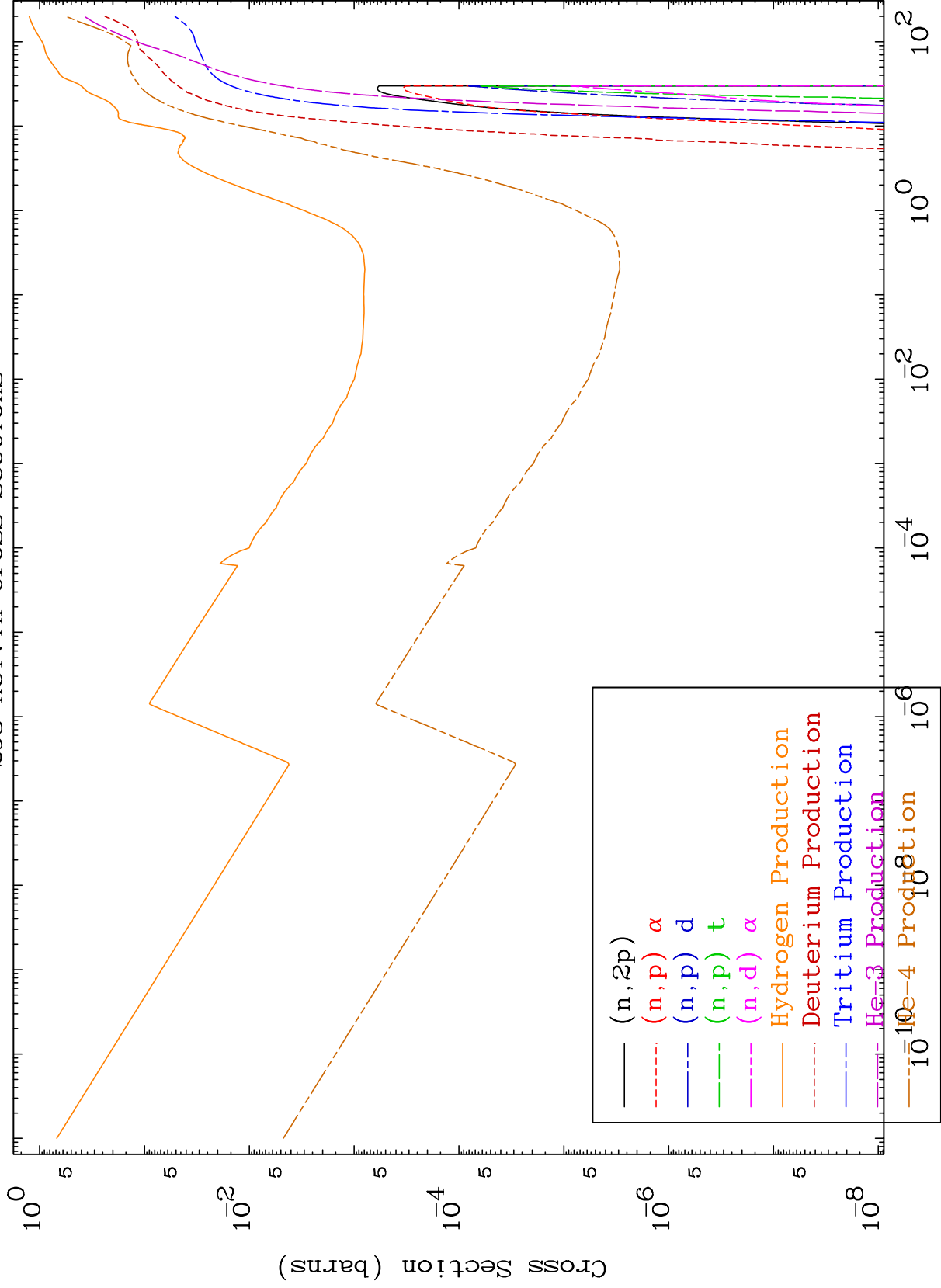
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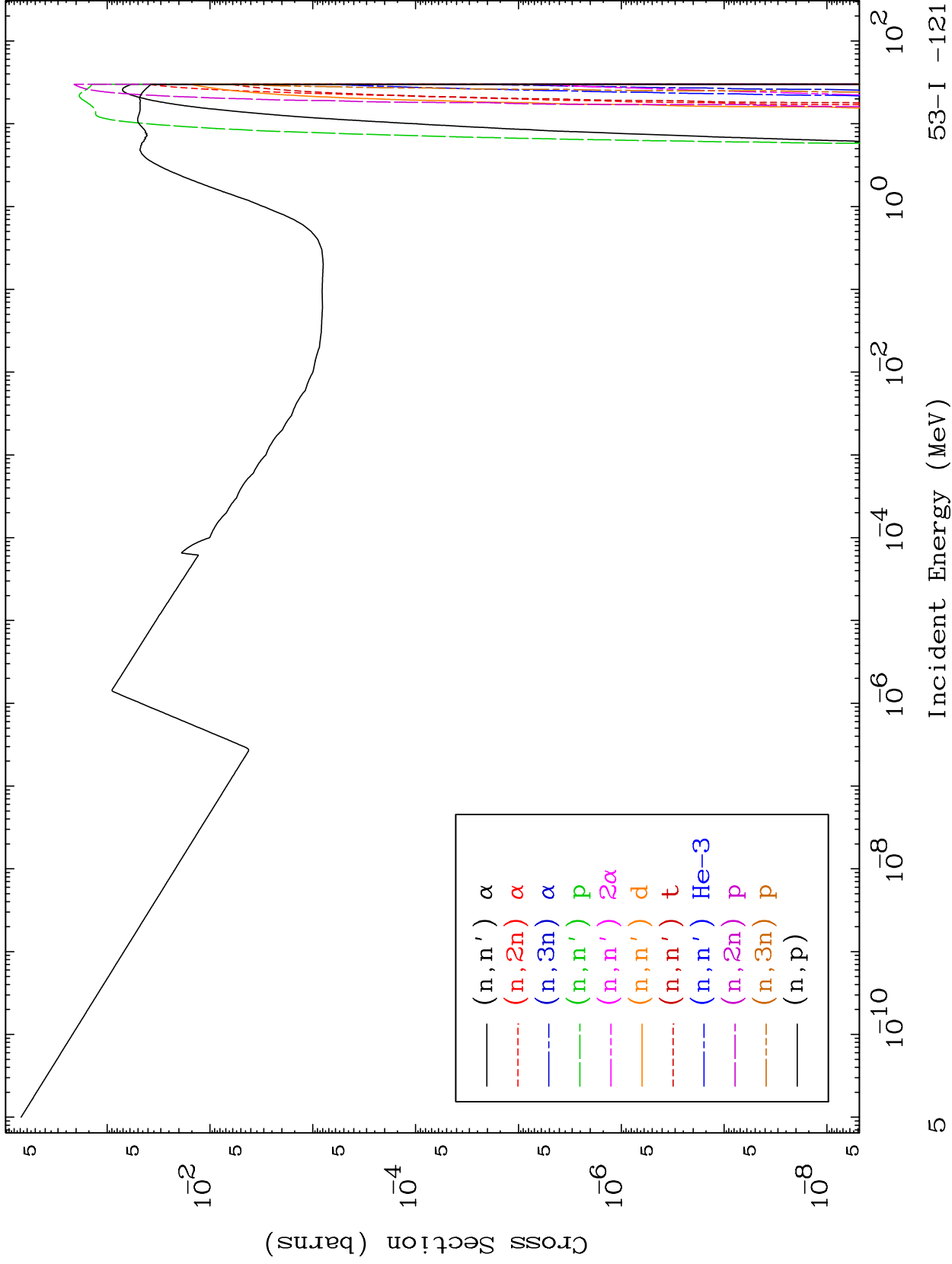
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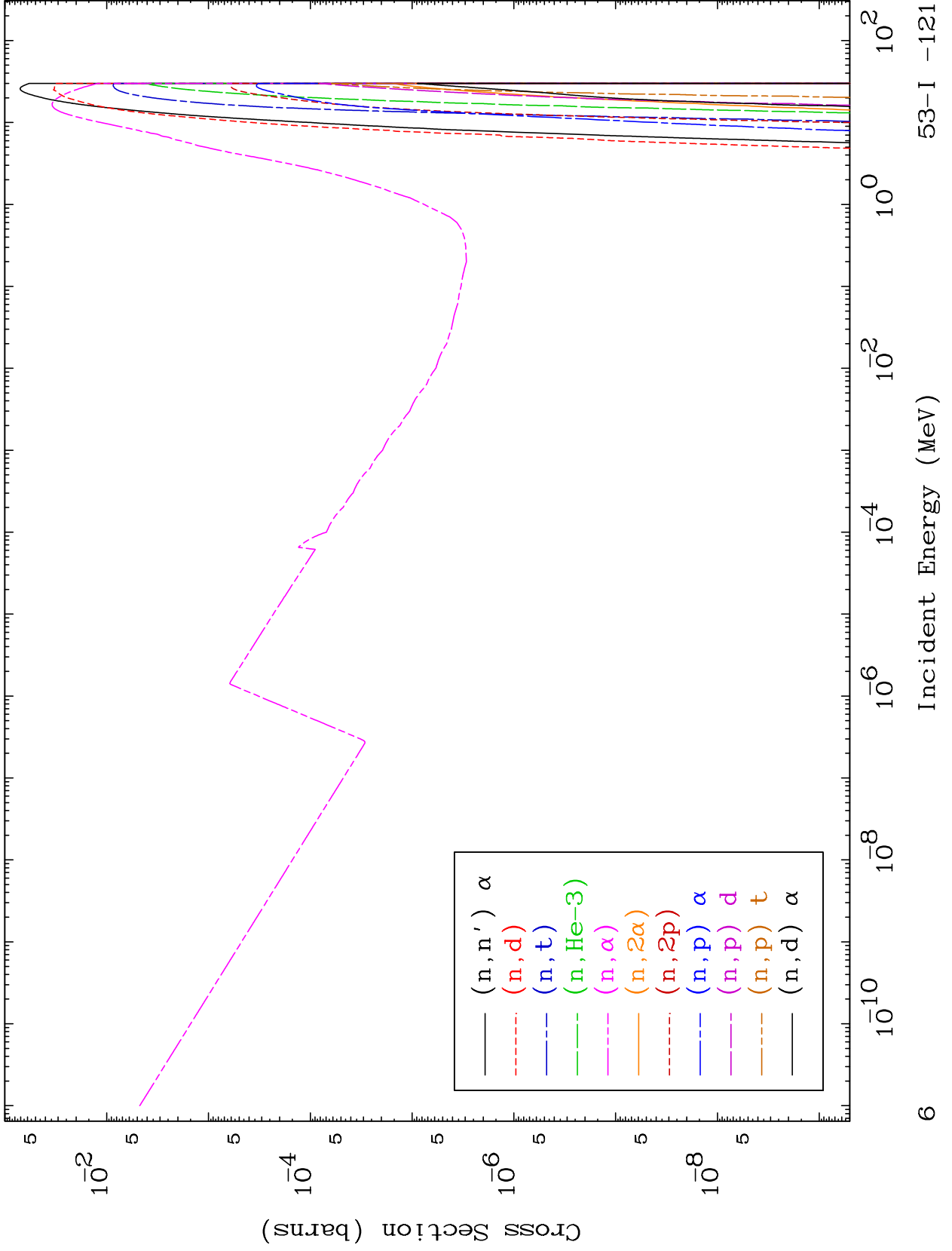


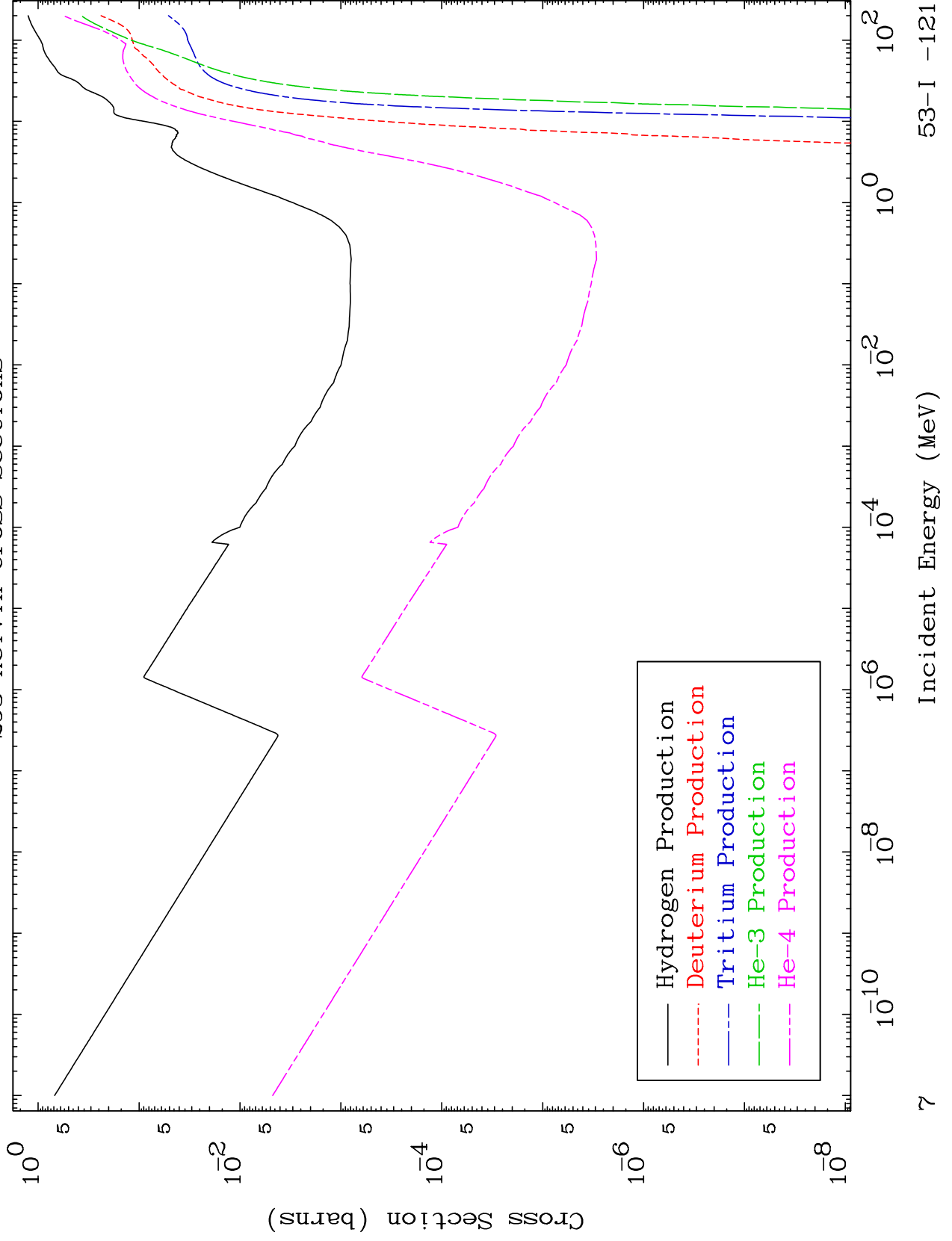


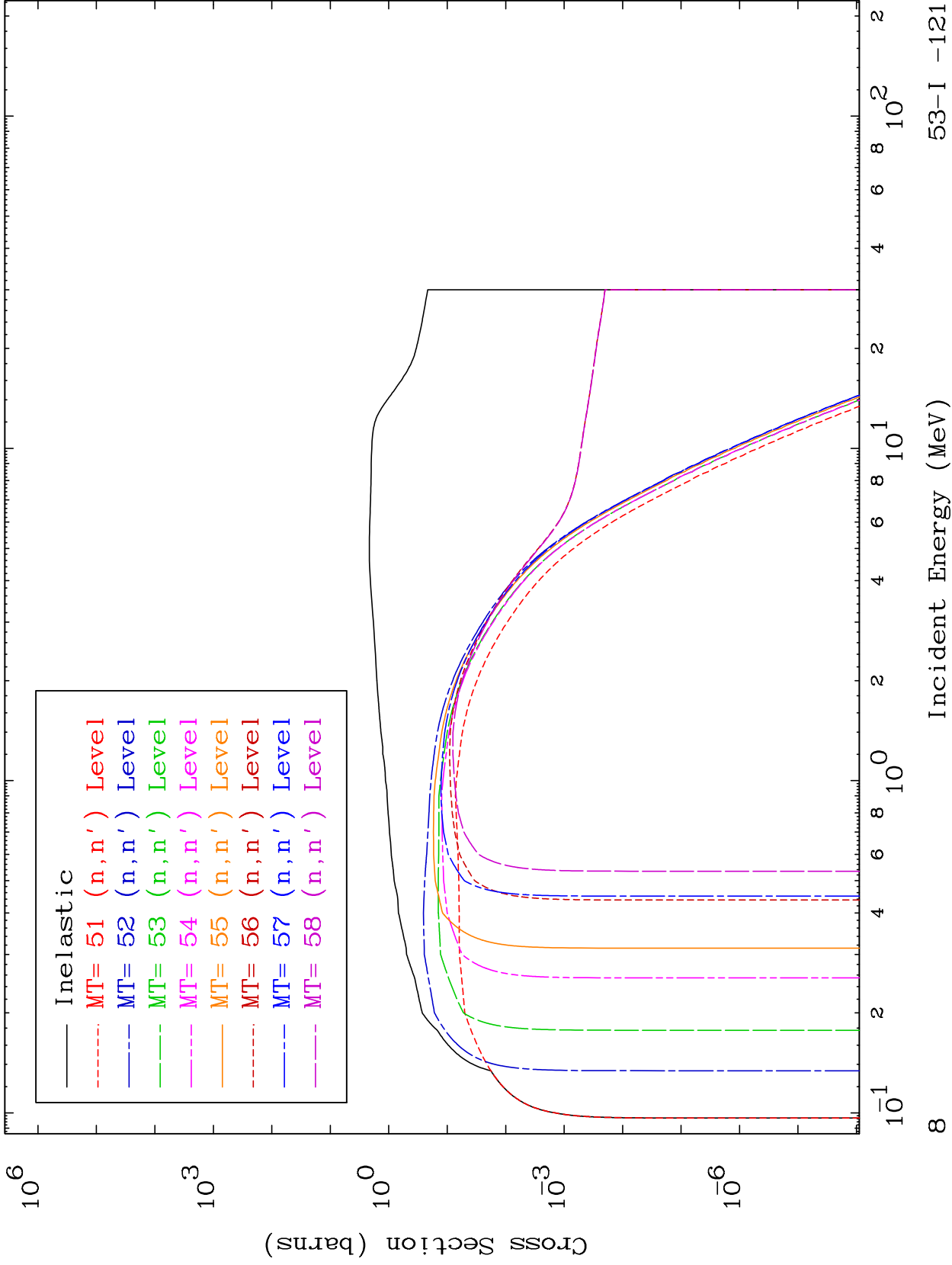


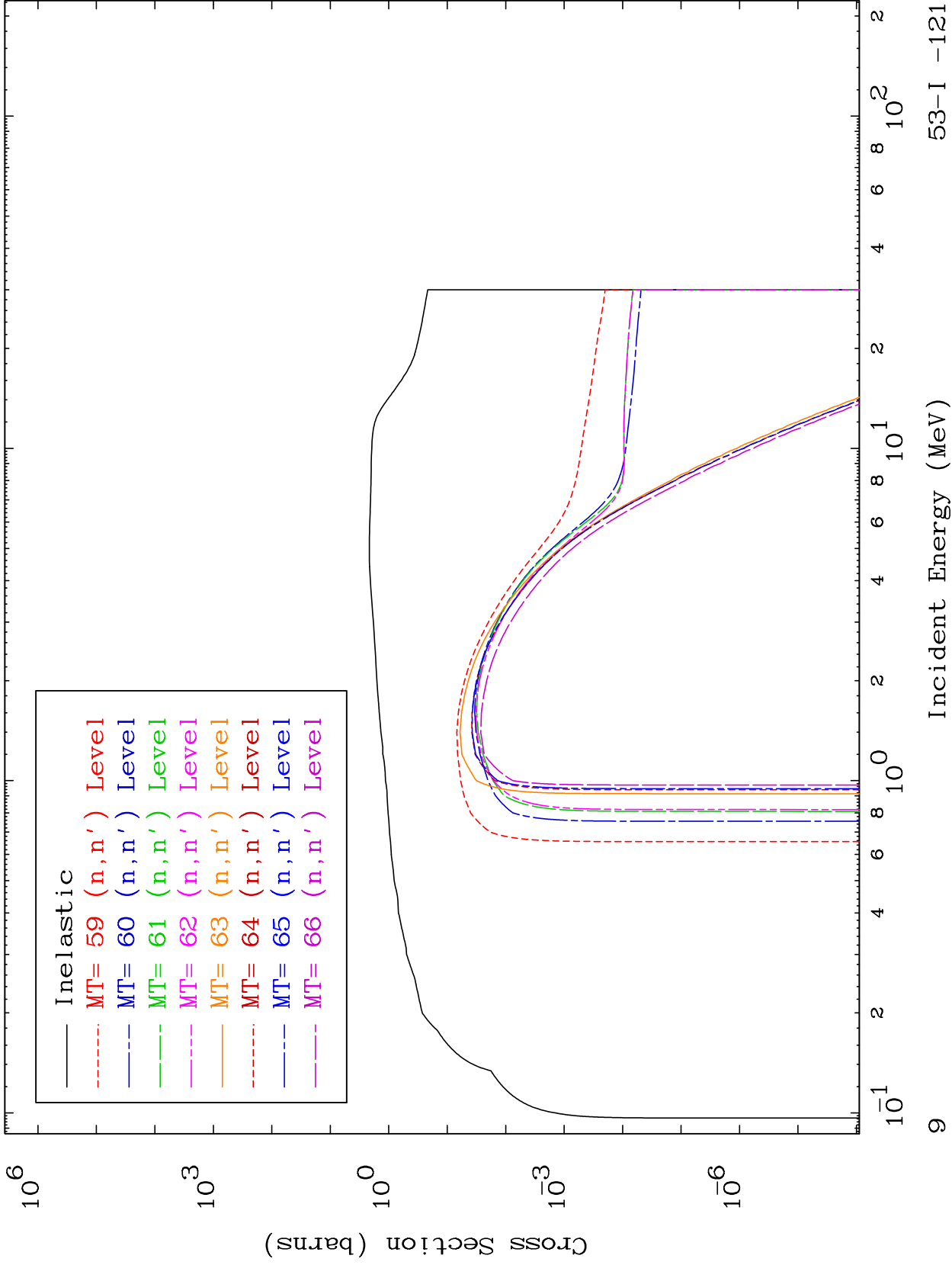


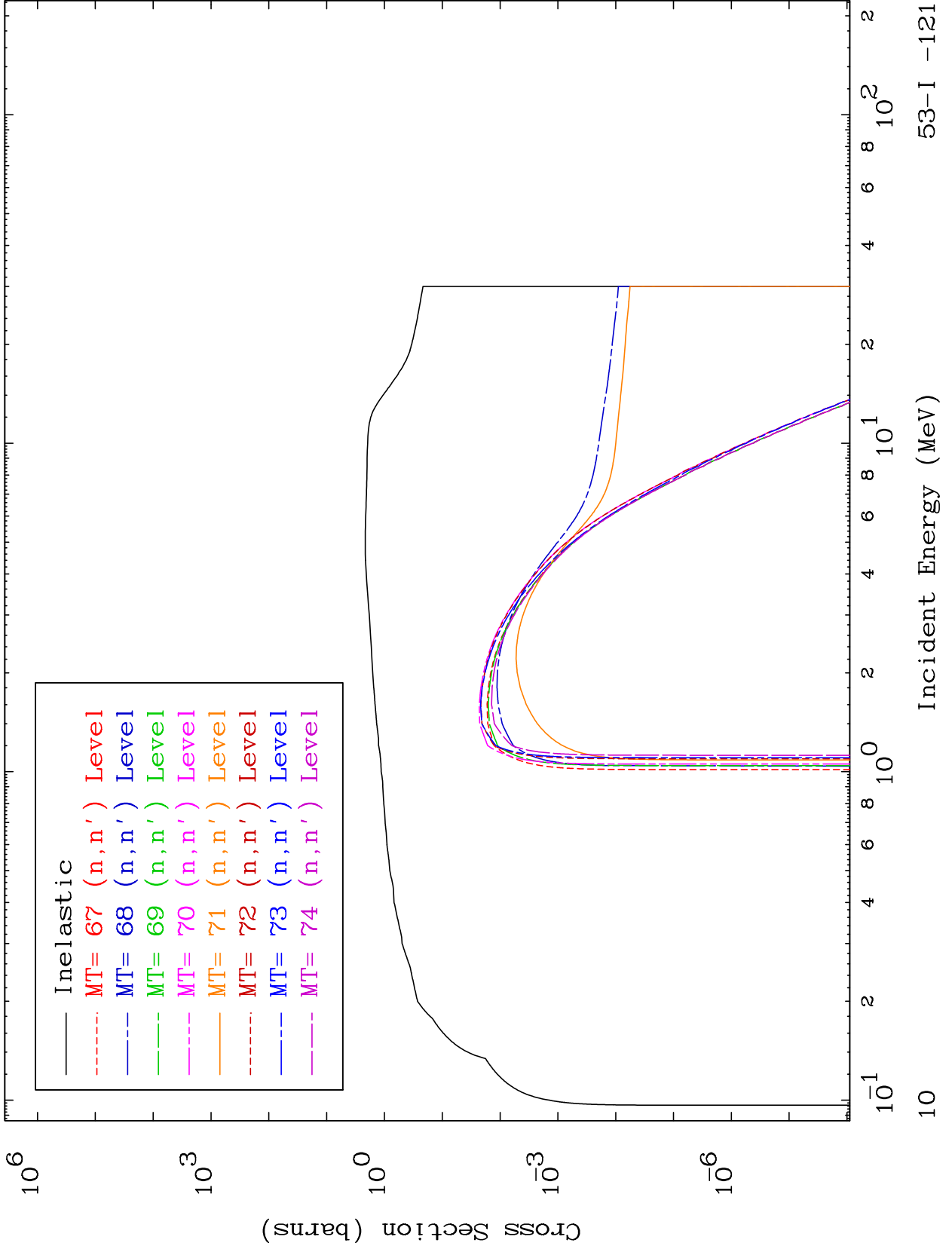


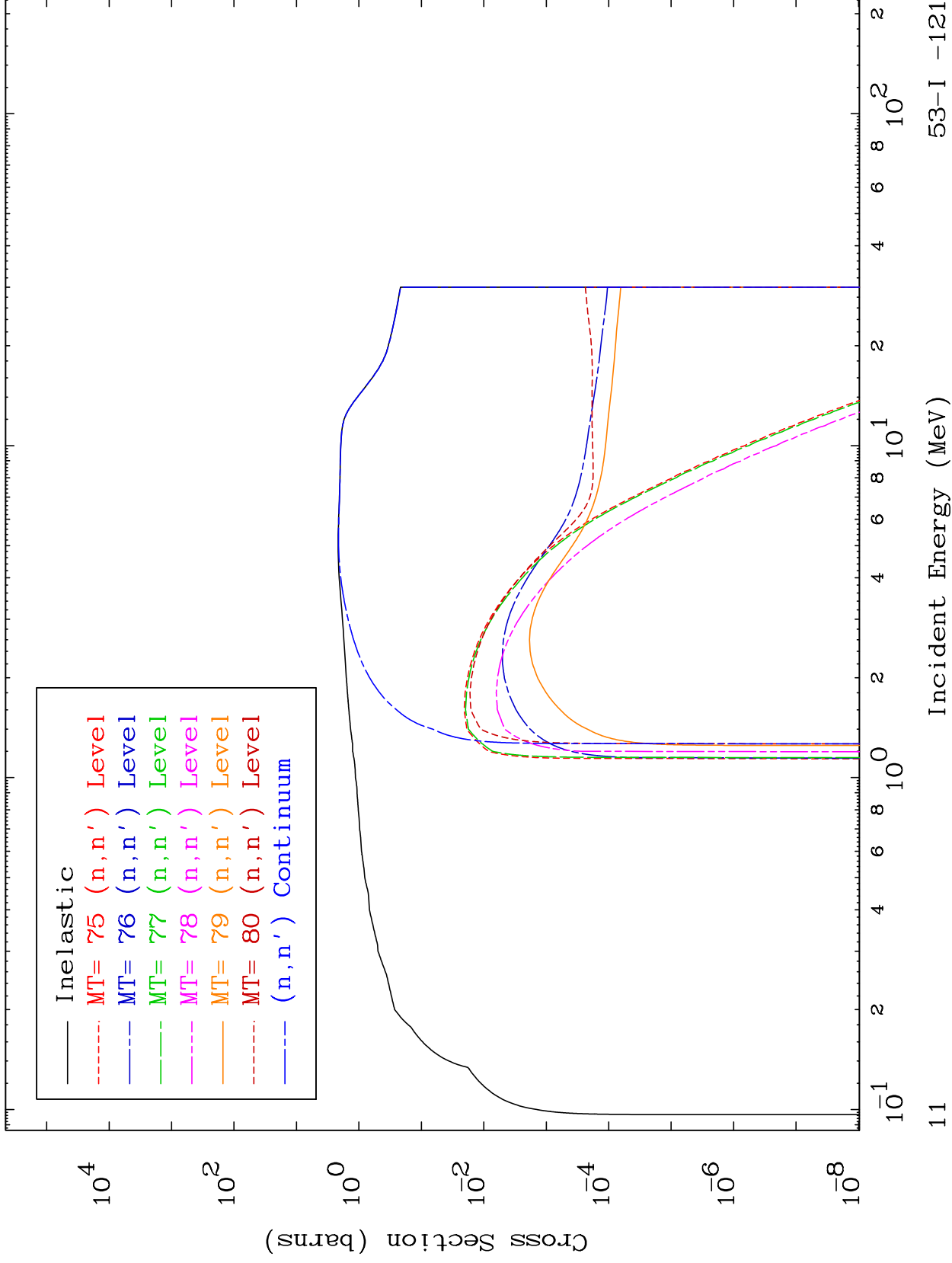


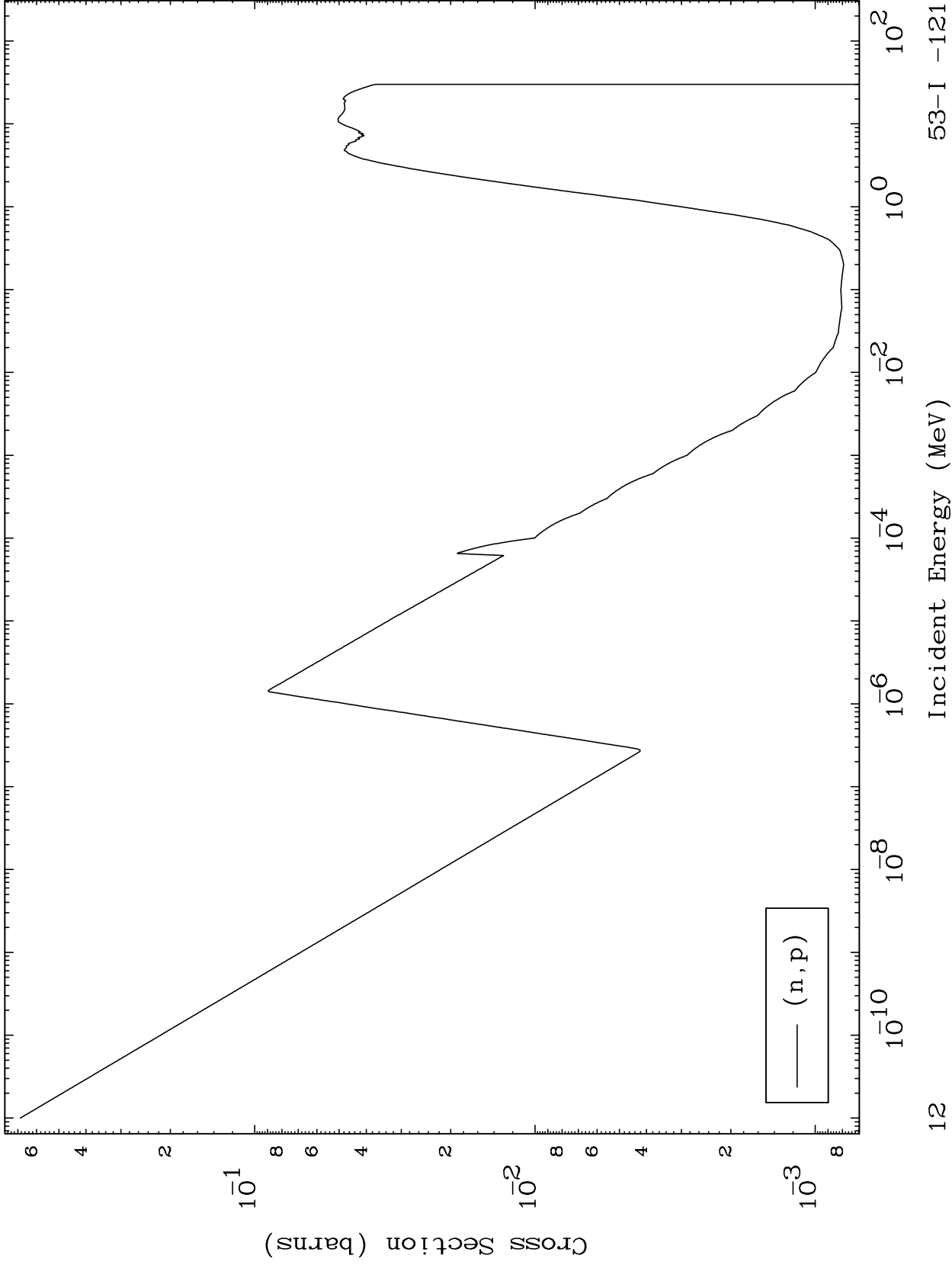








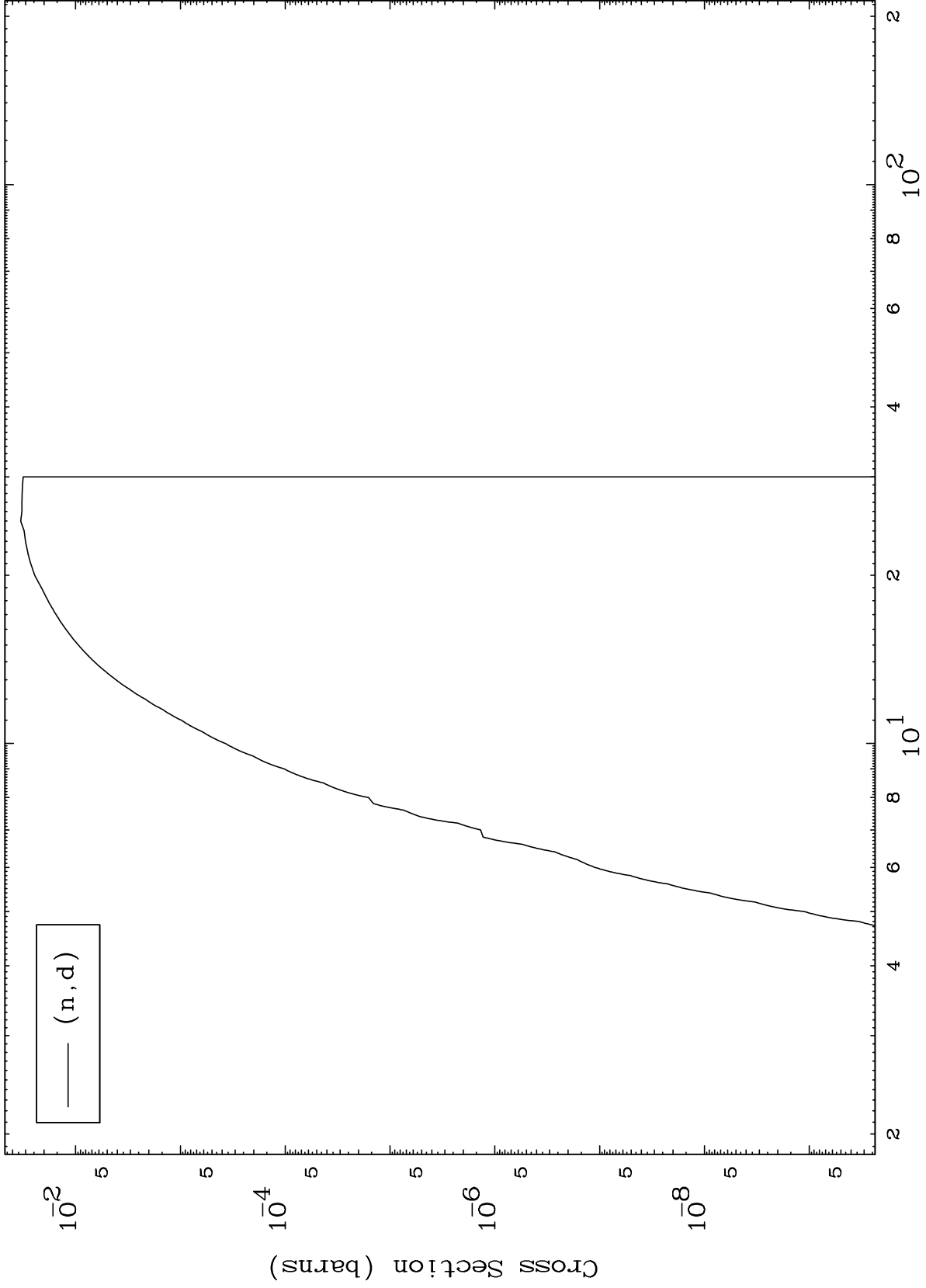




MAT 5307

(n,d) Levels  
293 Kelvin Cross Sections

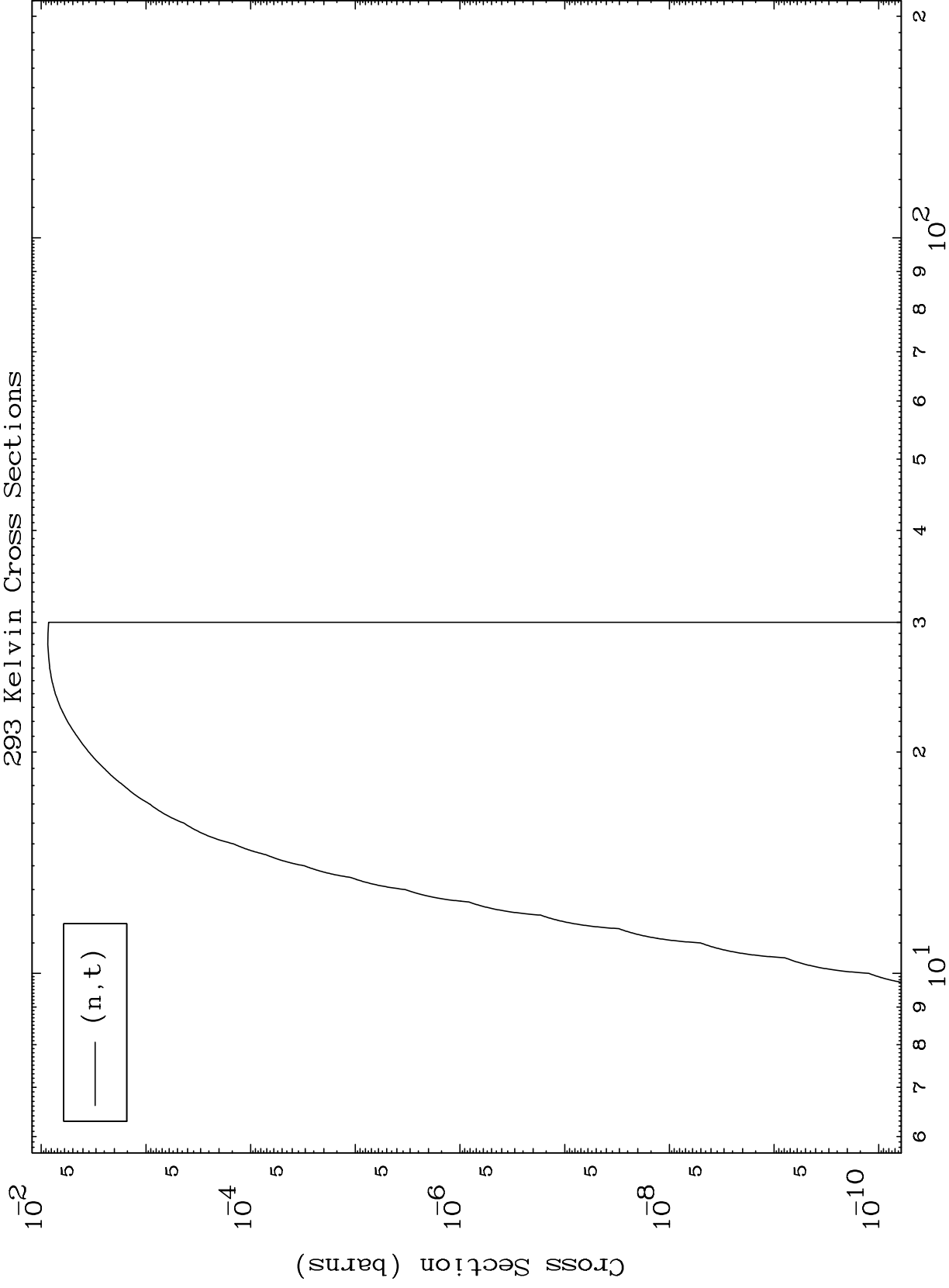
53-I -121

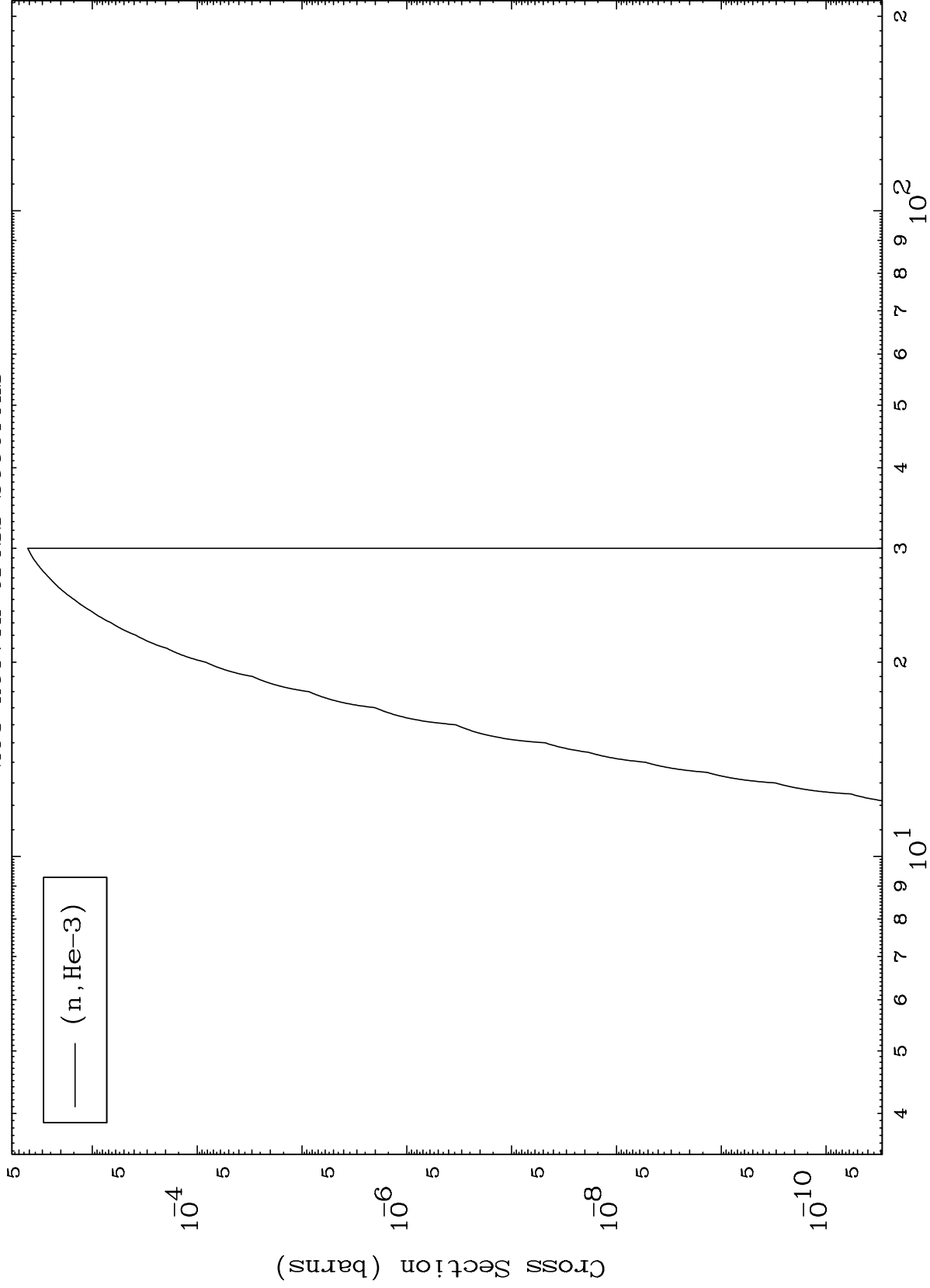


13

Incident Energy (MeV)

53-I -121

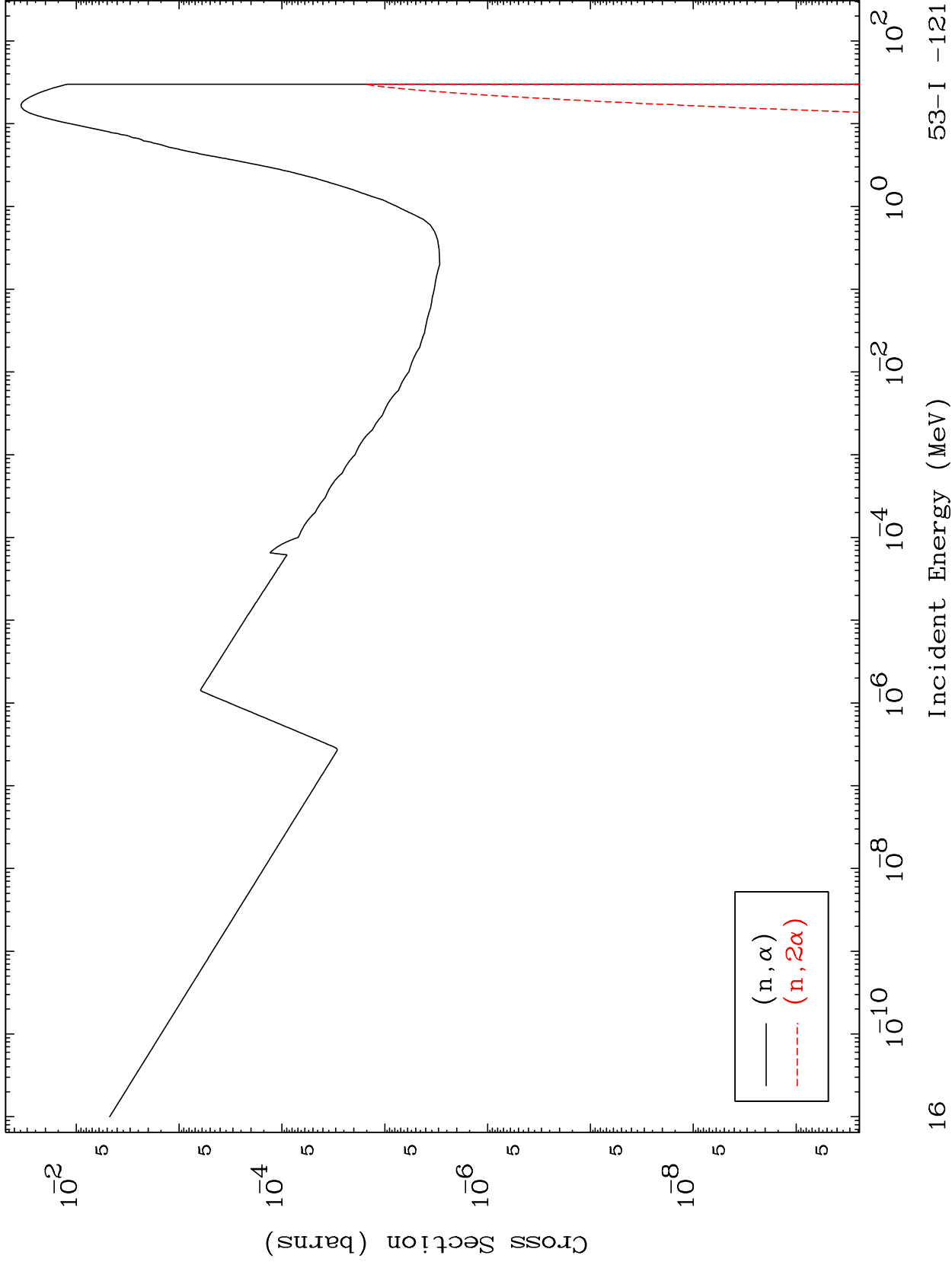




MAT 5307

(n,α) Levels  
293 Kelvin Cross Sections

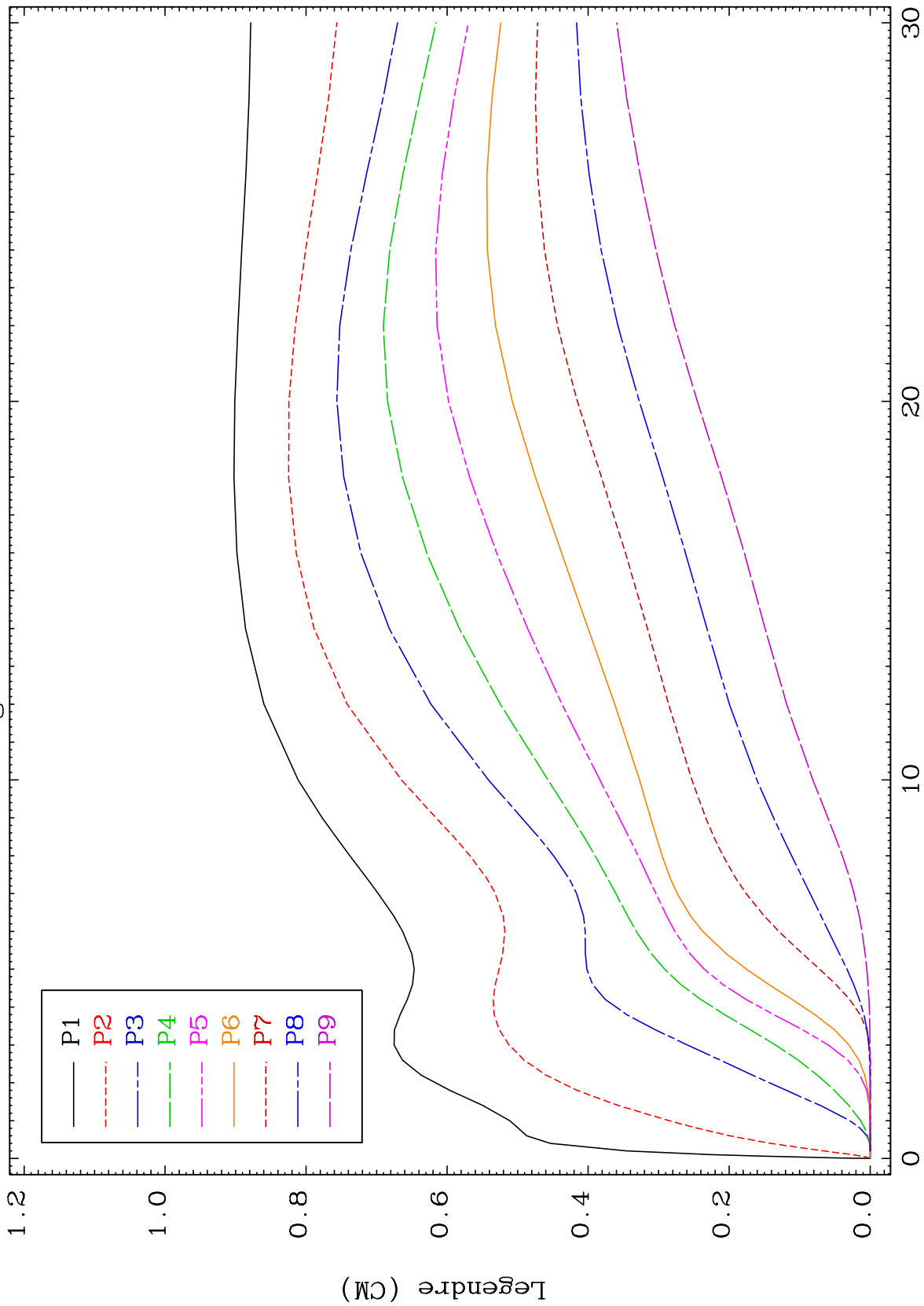
53-I -121



MAT 5307

Elastic Legendre Coefficients

53-I -121



17

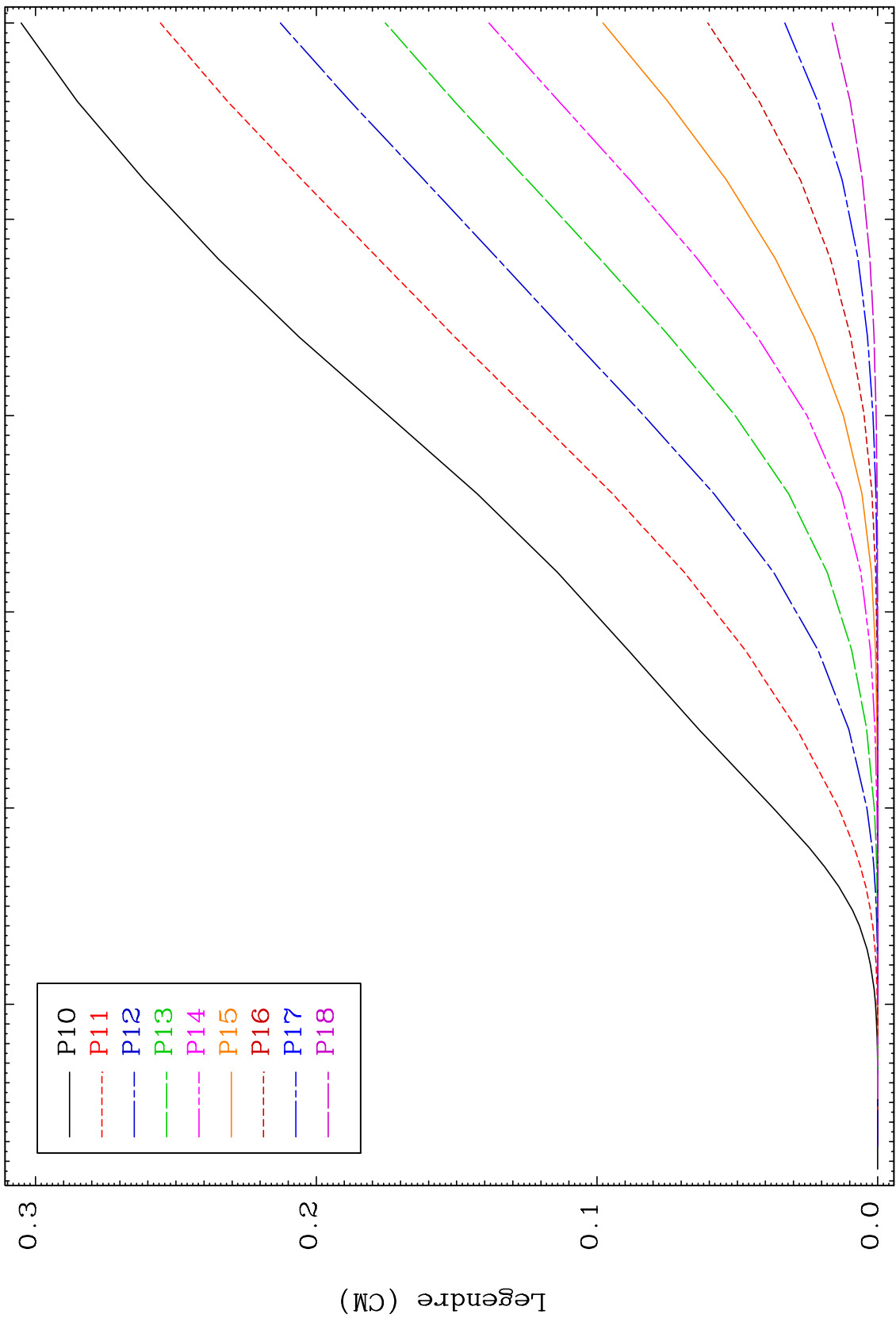
Incident Energy (MeV)

53-I -121

MAT 5307

Elastic Legendre Coefficients

53-I -121

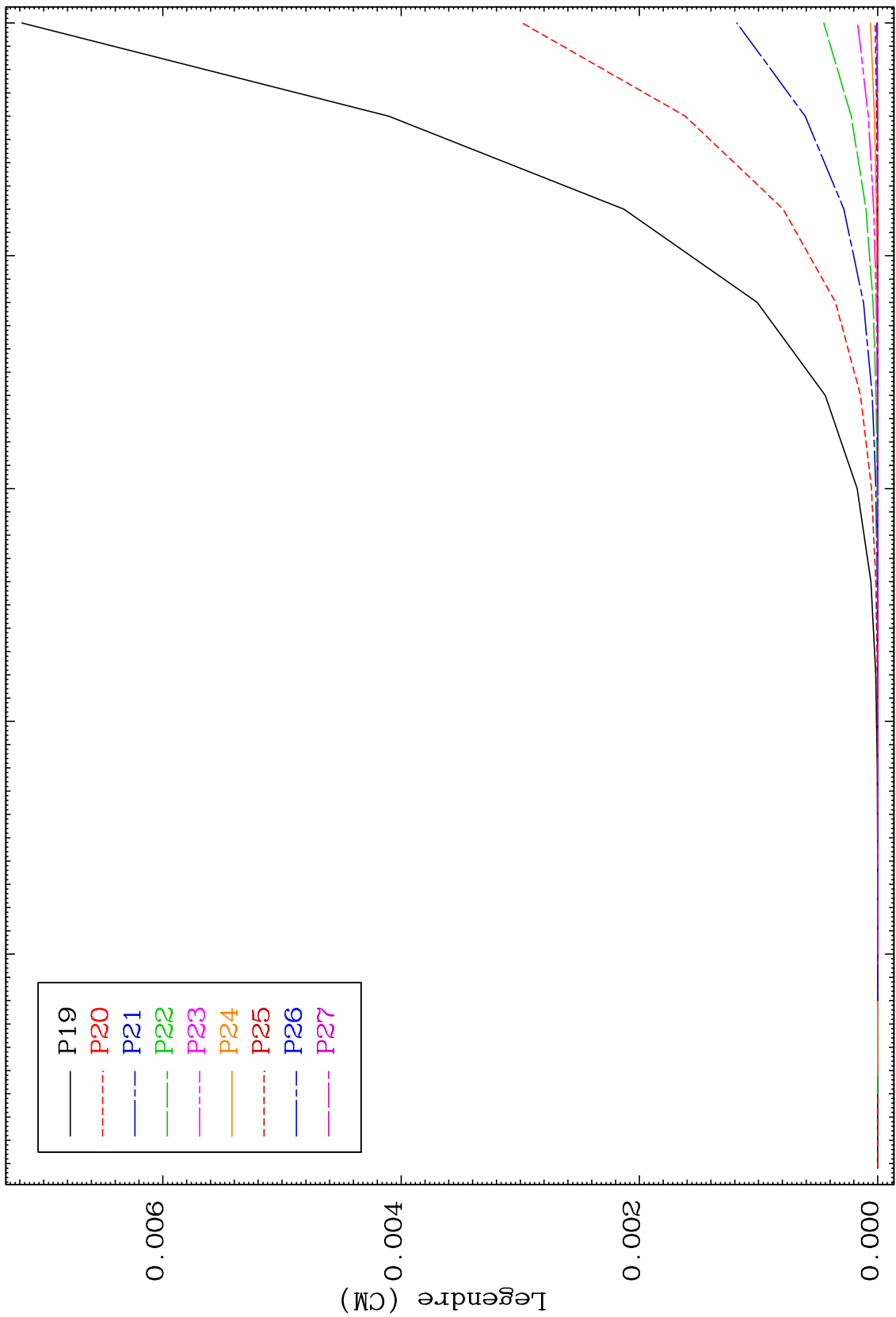


18

Incident Energy (MeV)

53-I -121

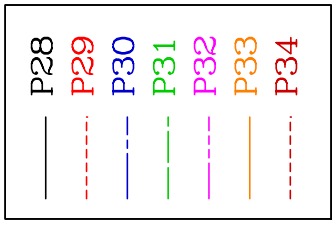
Elastic Legendre Coefficients



MAT 5307

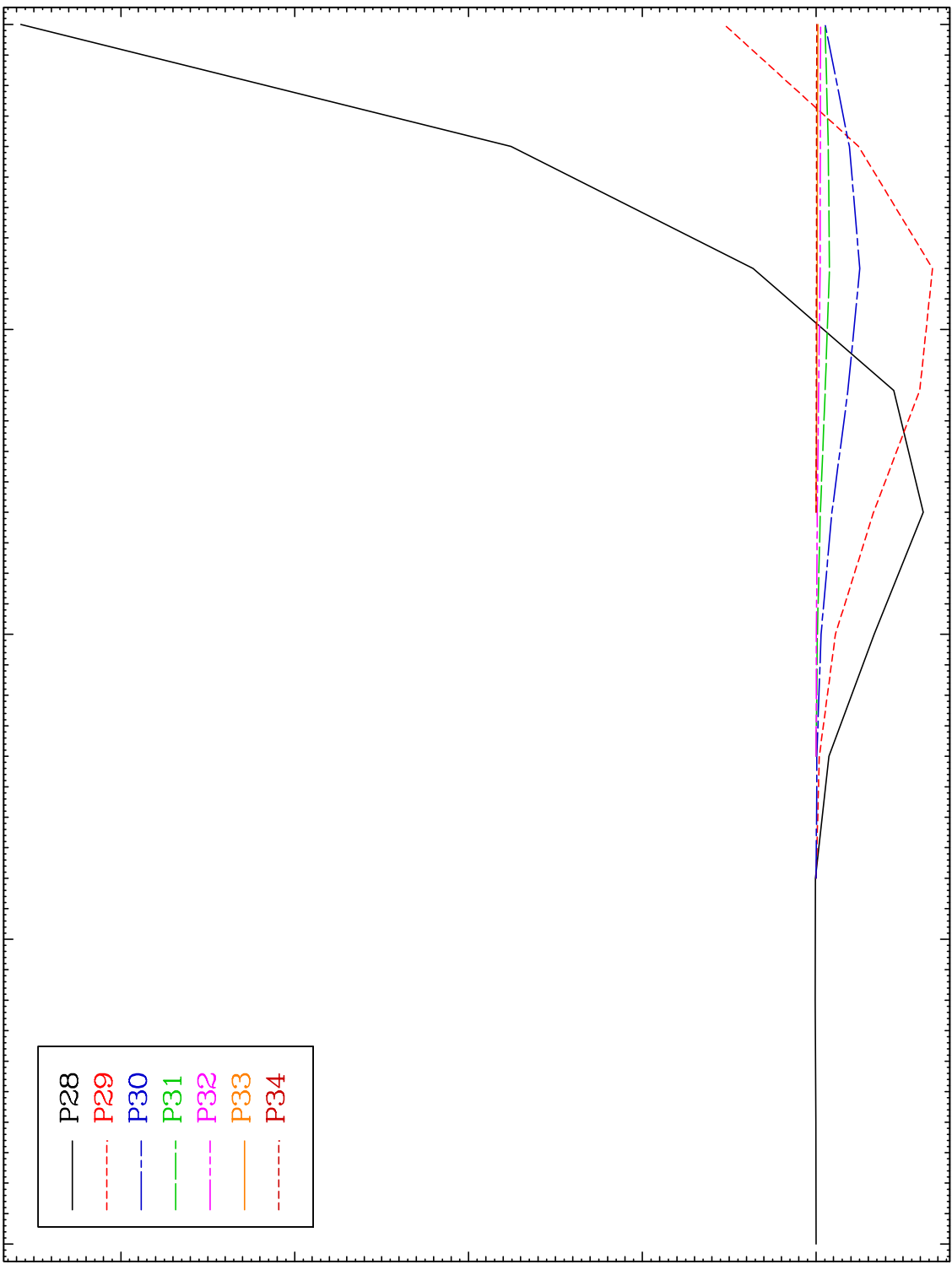
Elastic Legendre Coefficients

53-I -121



$\times 10^{-7}$

Legendre (CM)



30

25

20

15

10

Incident Energy (MeV)

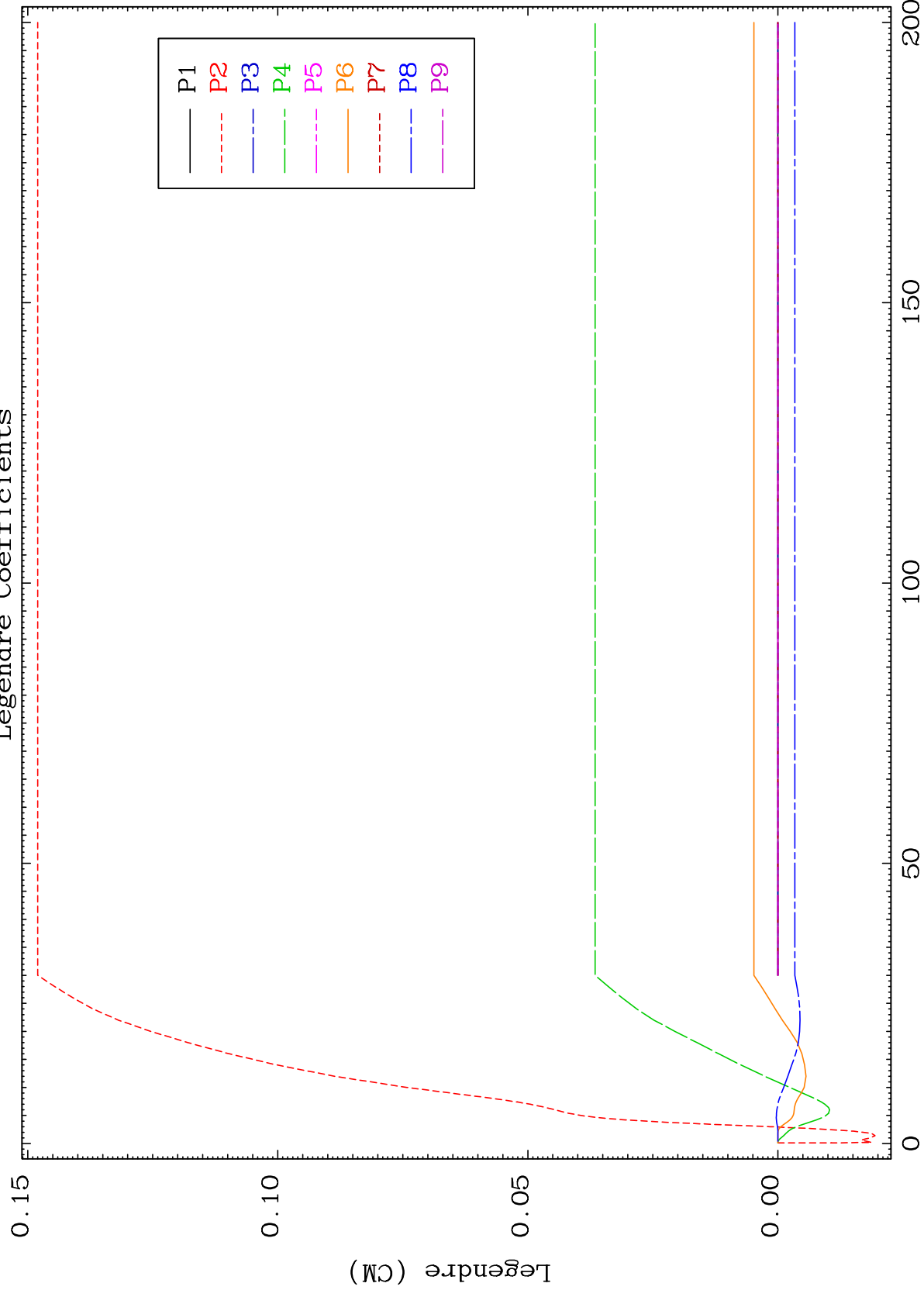
53-I -121

20

MAT 5307

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

53-I -121



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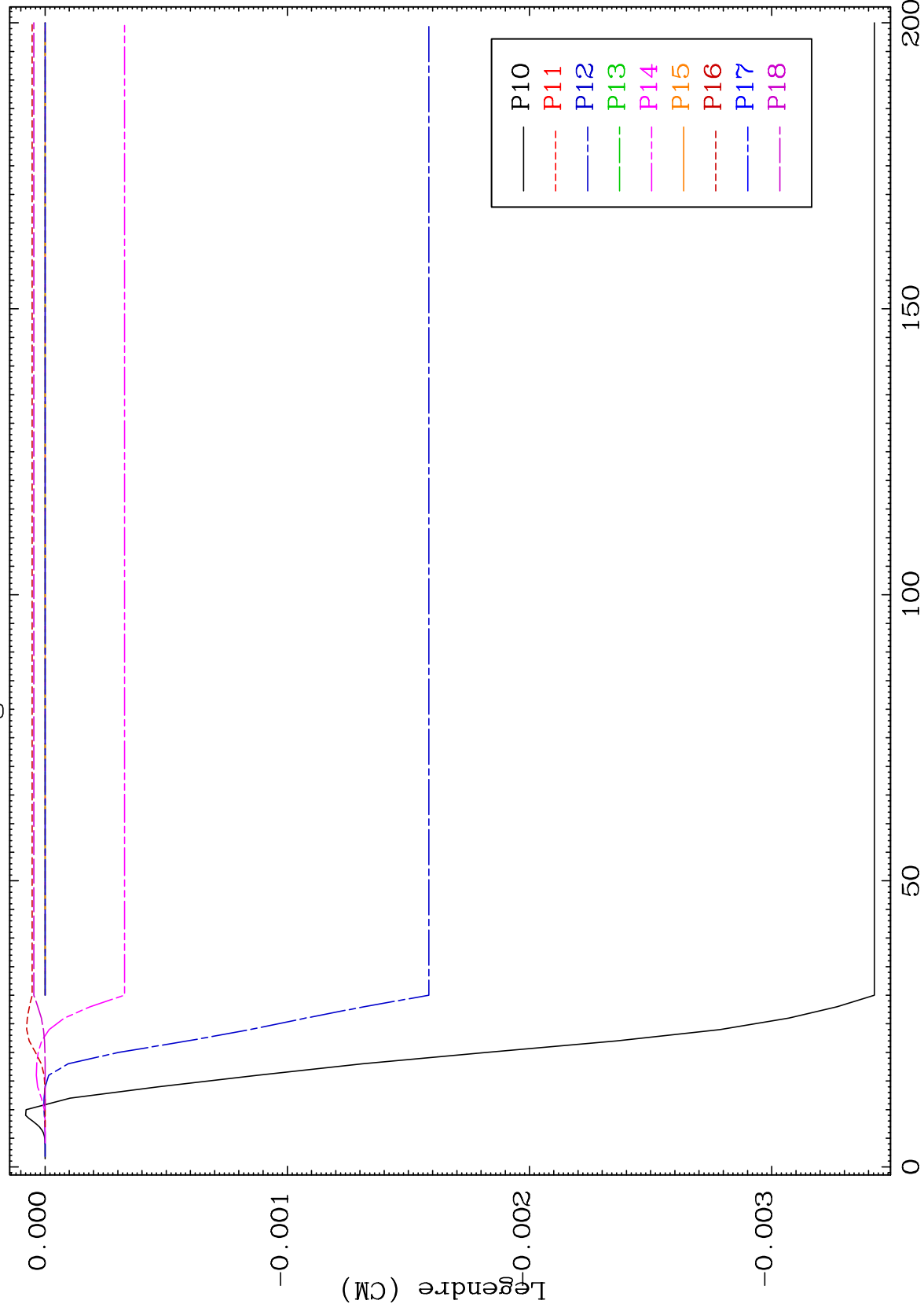
Incident Energy (MeV)

53-I -121

MAT 5307

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

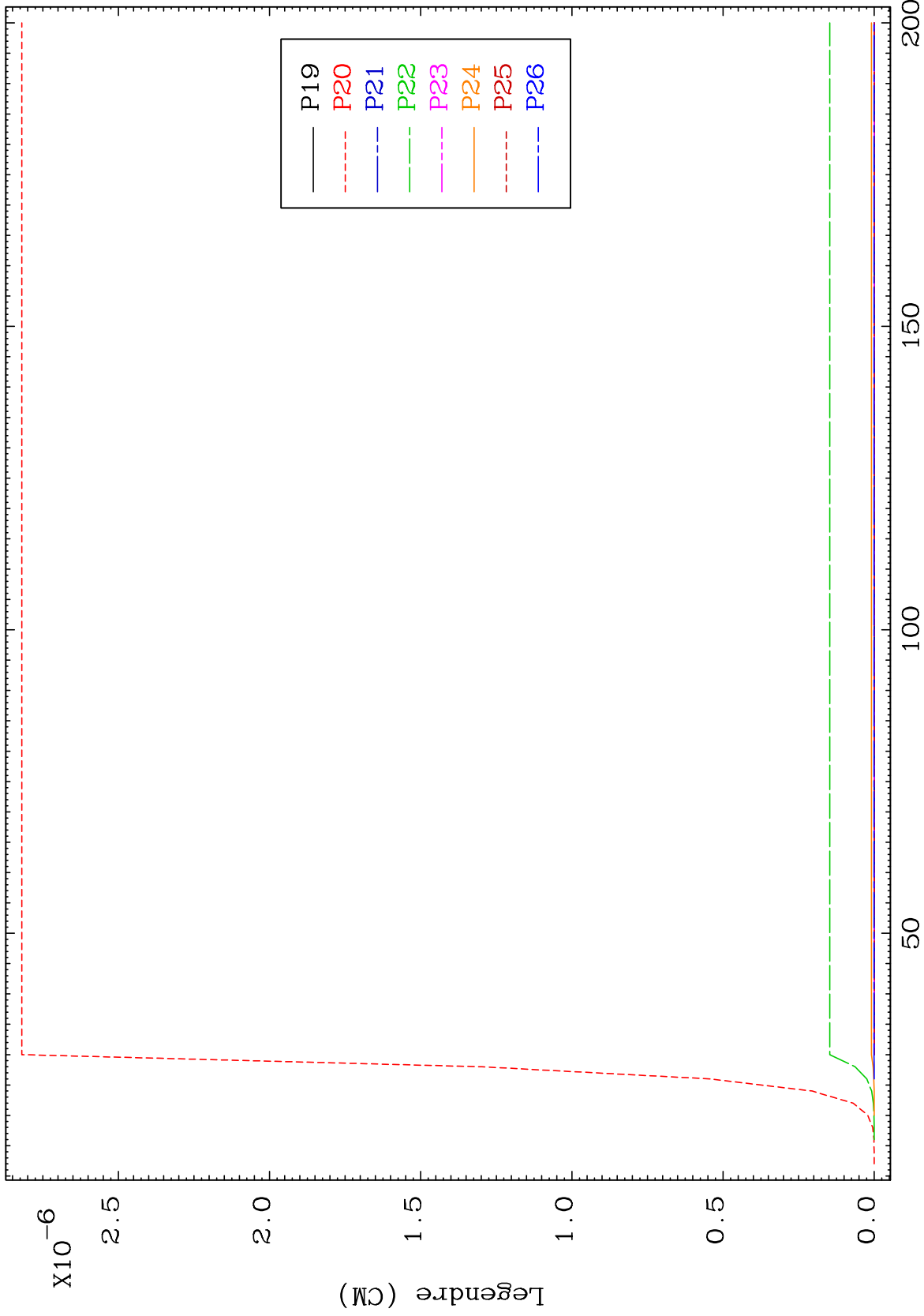
53-I -121



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Incident Energy (MeV)

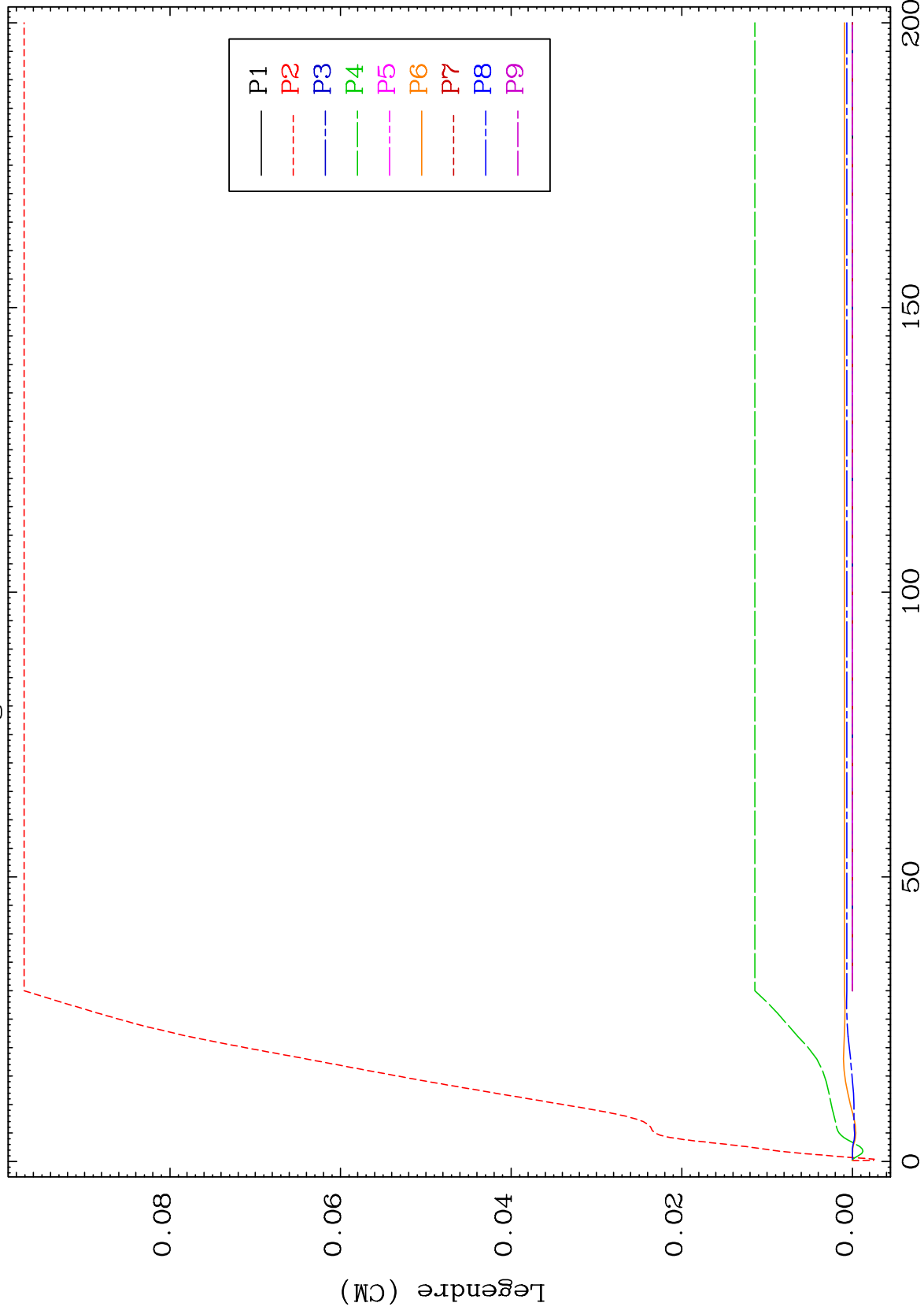
53-I -121



MAT 5307

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

53-I -121



24

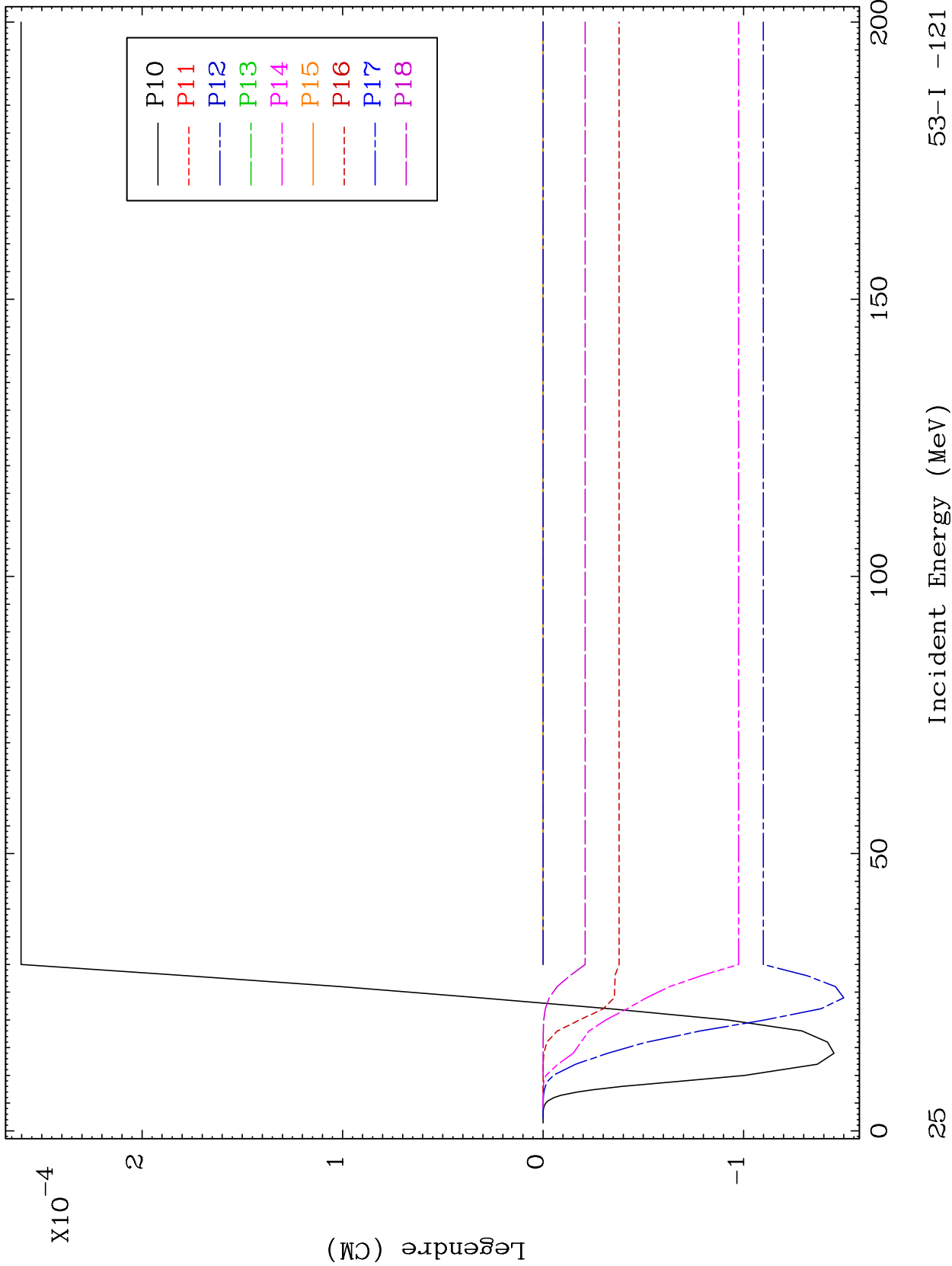
Incident Energy (MeV)

53-I -121

MAT 5307

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

53-I -121



25

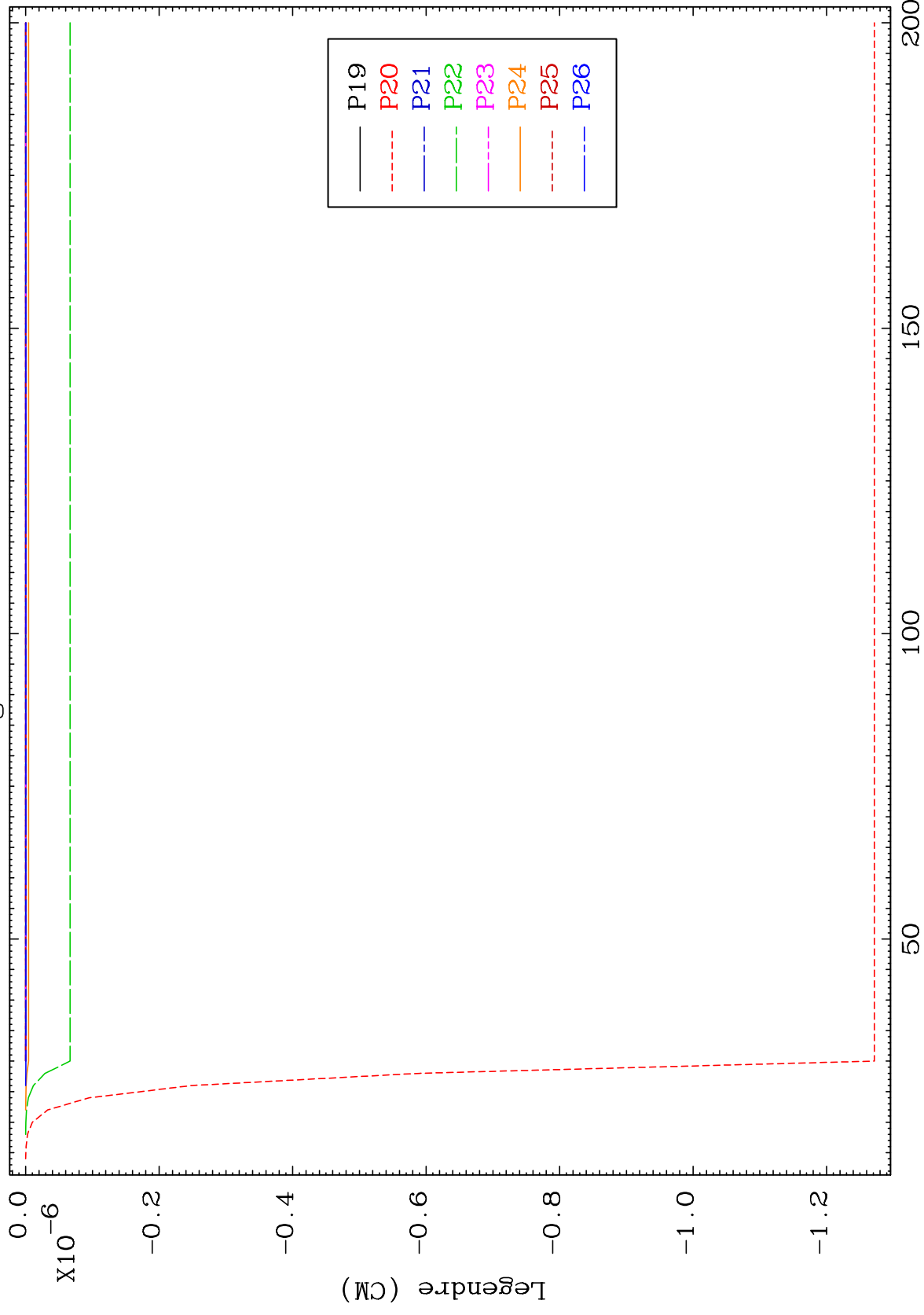
Incident Energy (MeV)

53-I -121

MAT 5307

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

53-I -121



26

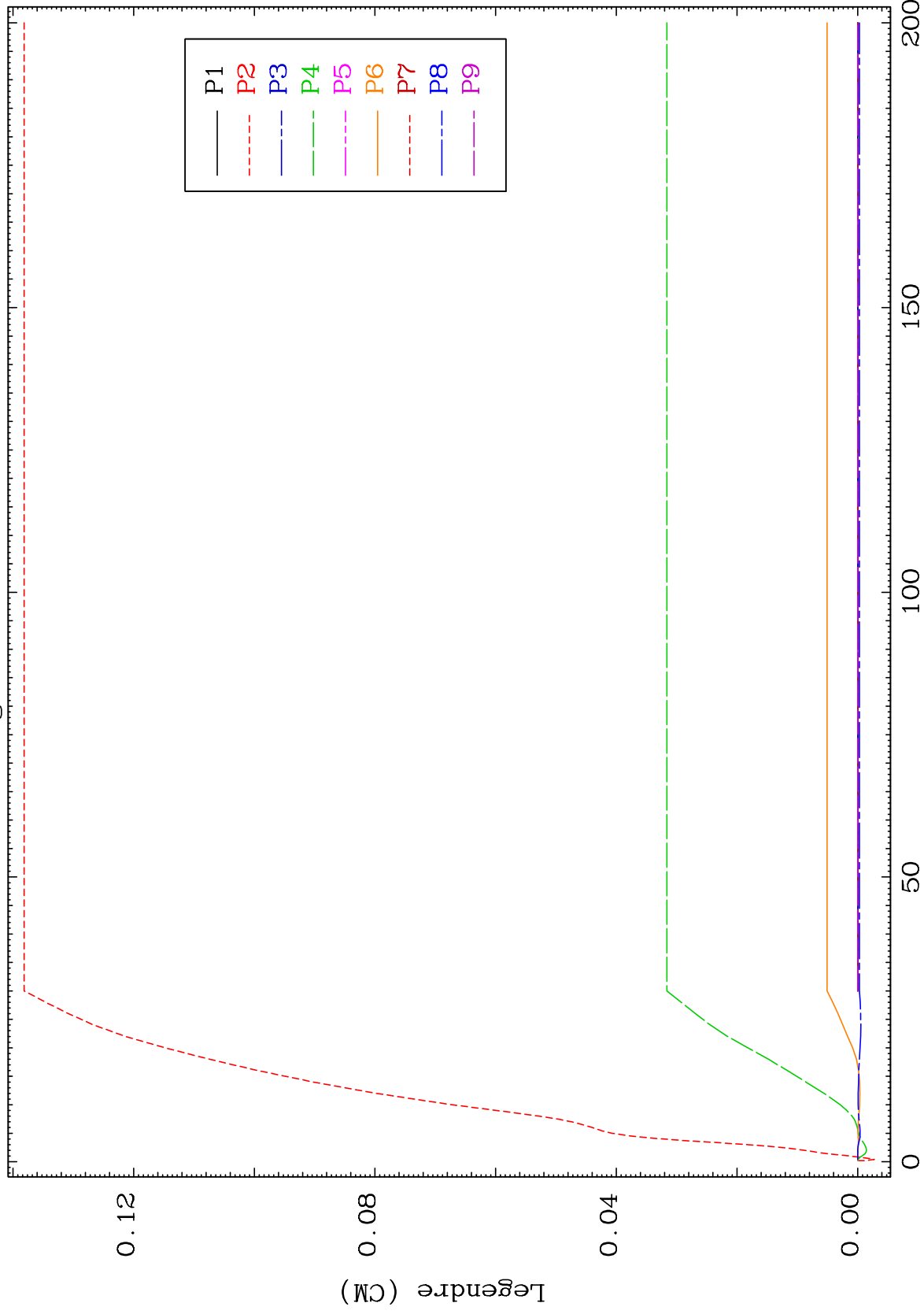
Incident Energy (MeV)

53-I -121

MAT 5307

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

53-I -121



27

Incident Energy (MeV)

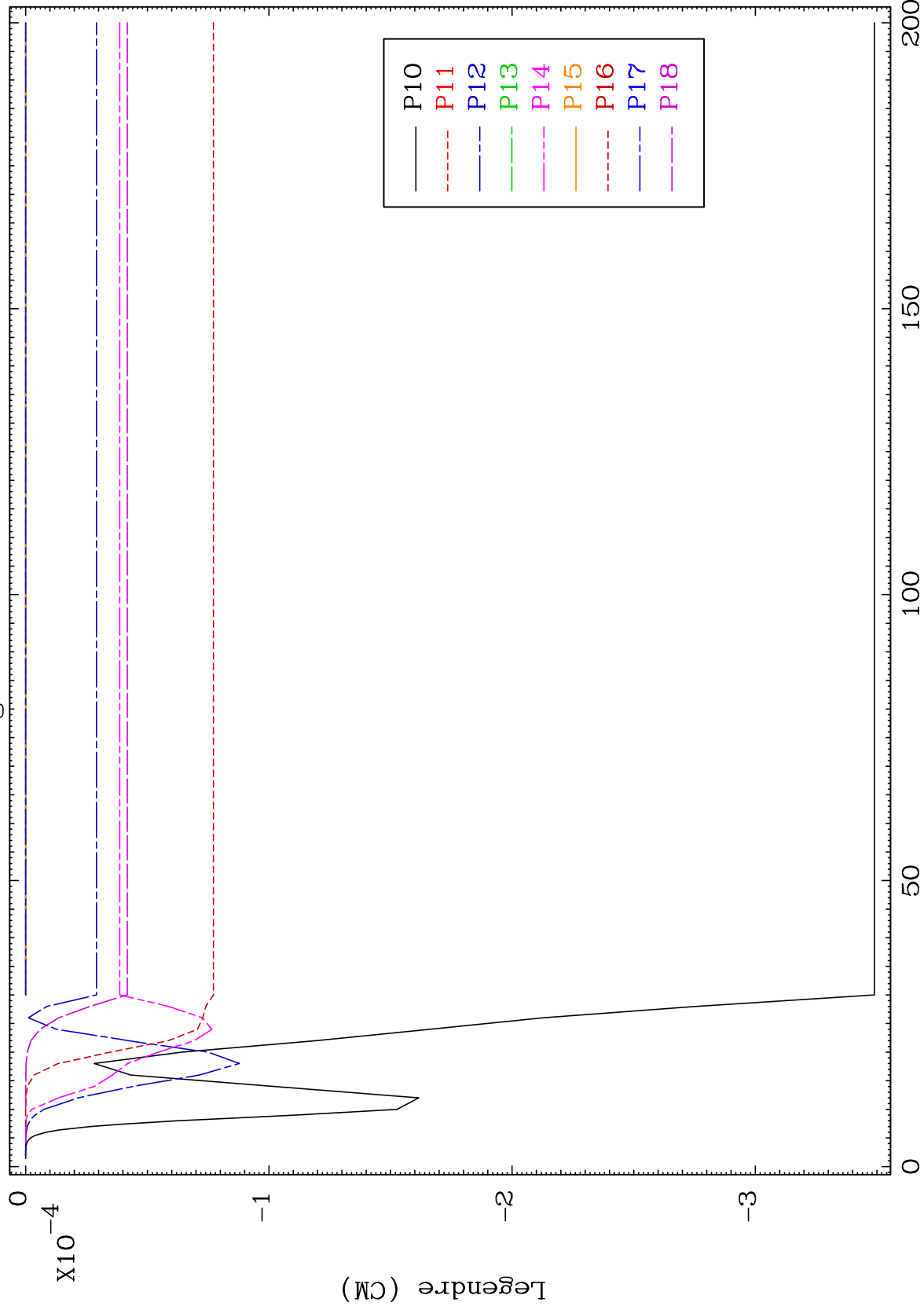
53-I -121

MAT 5307

MT= 53 (n,n') Level

53-I -121

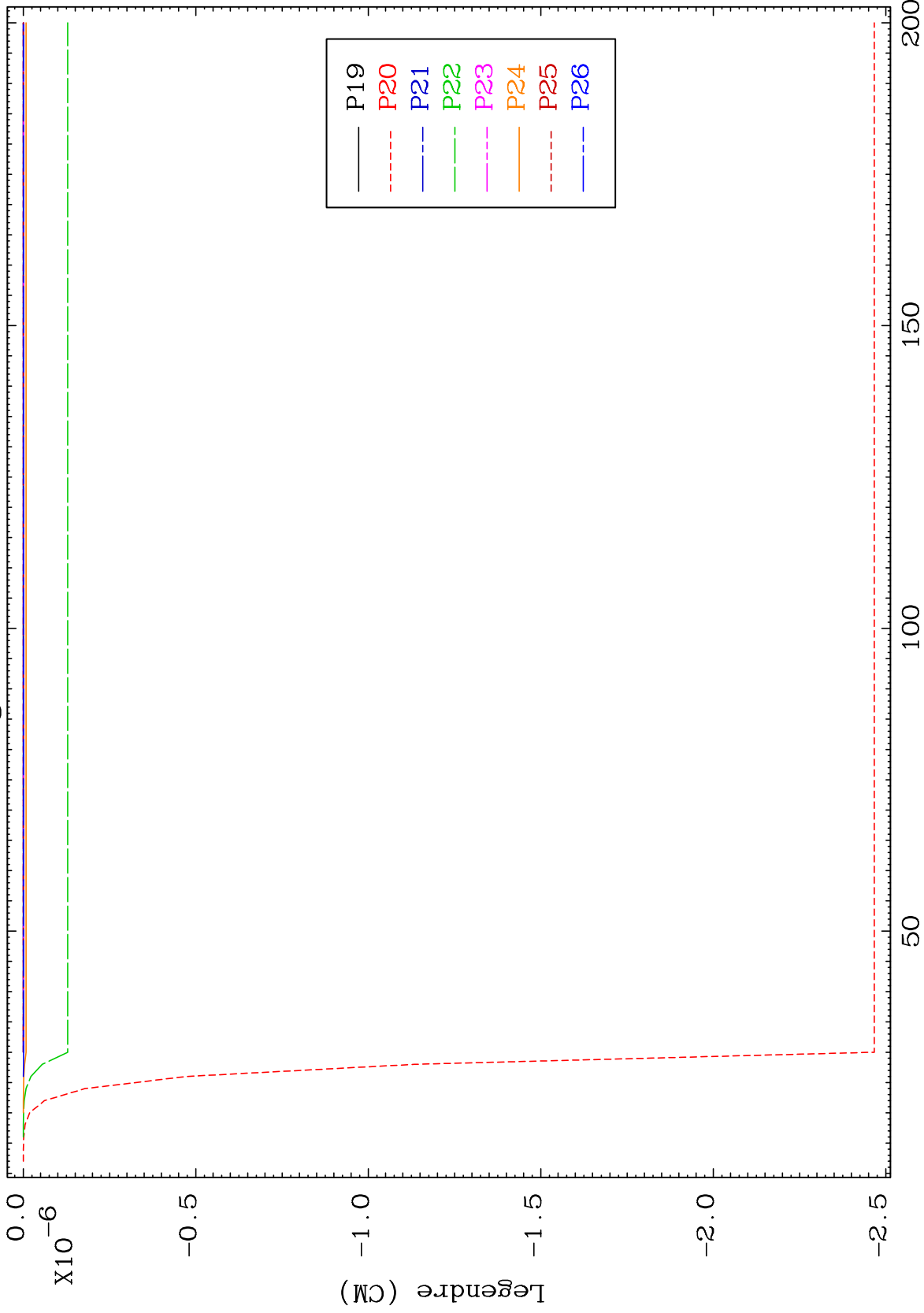
Legendre Coefficients



28

Incident Energy (MeV)

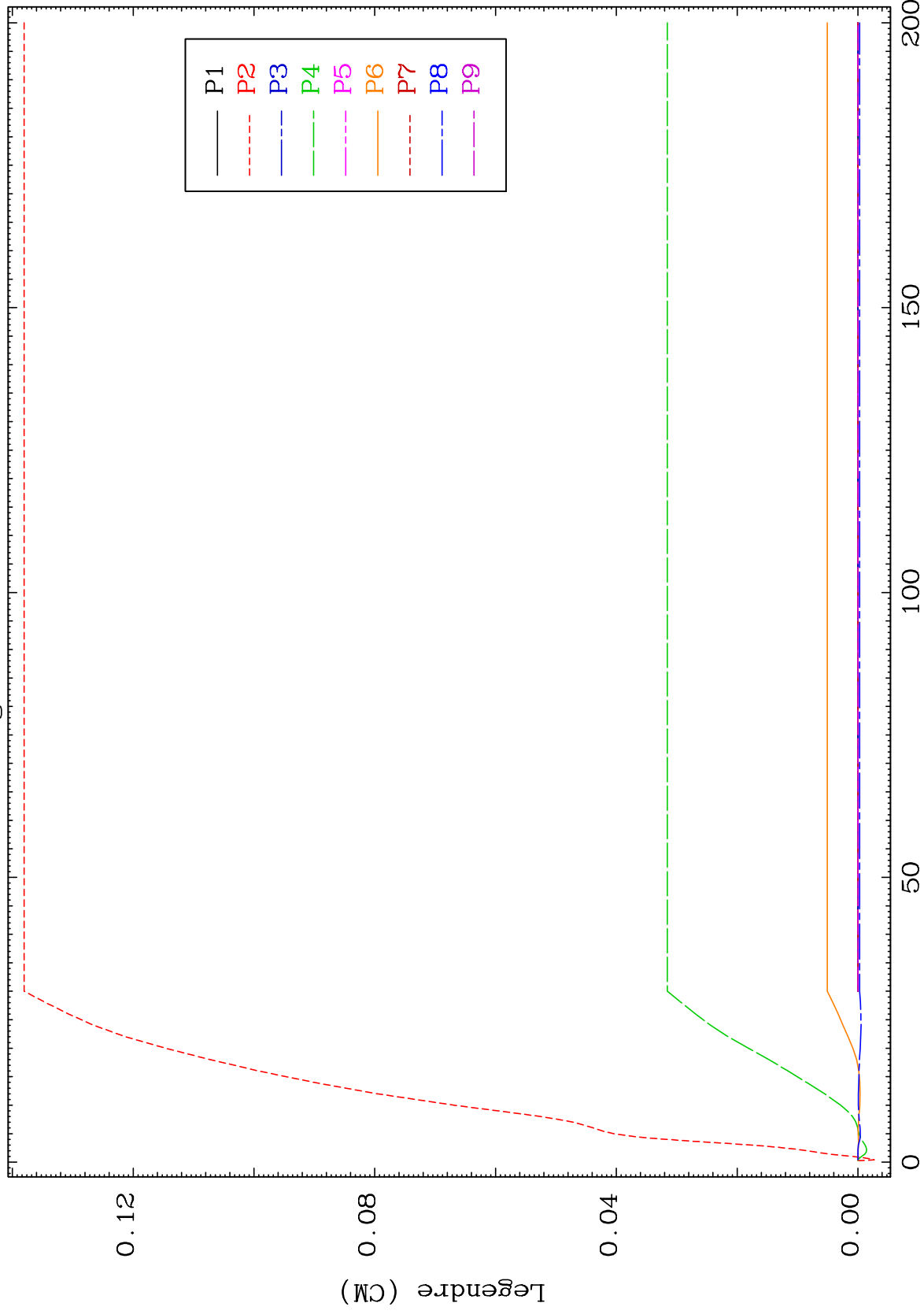
53-I -121



MAT 5307

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

53-I -121



53-I -121

Incident Energy (MeV)

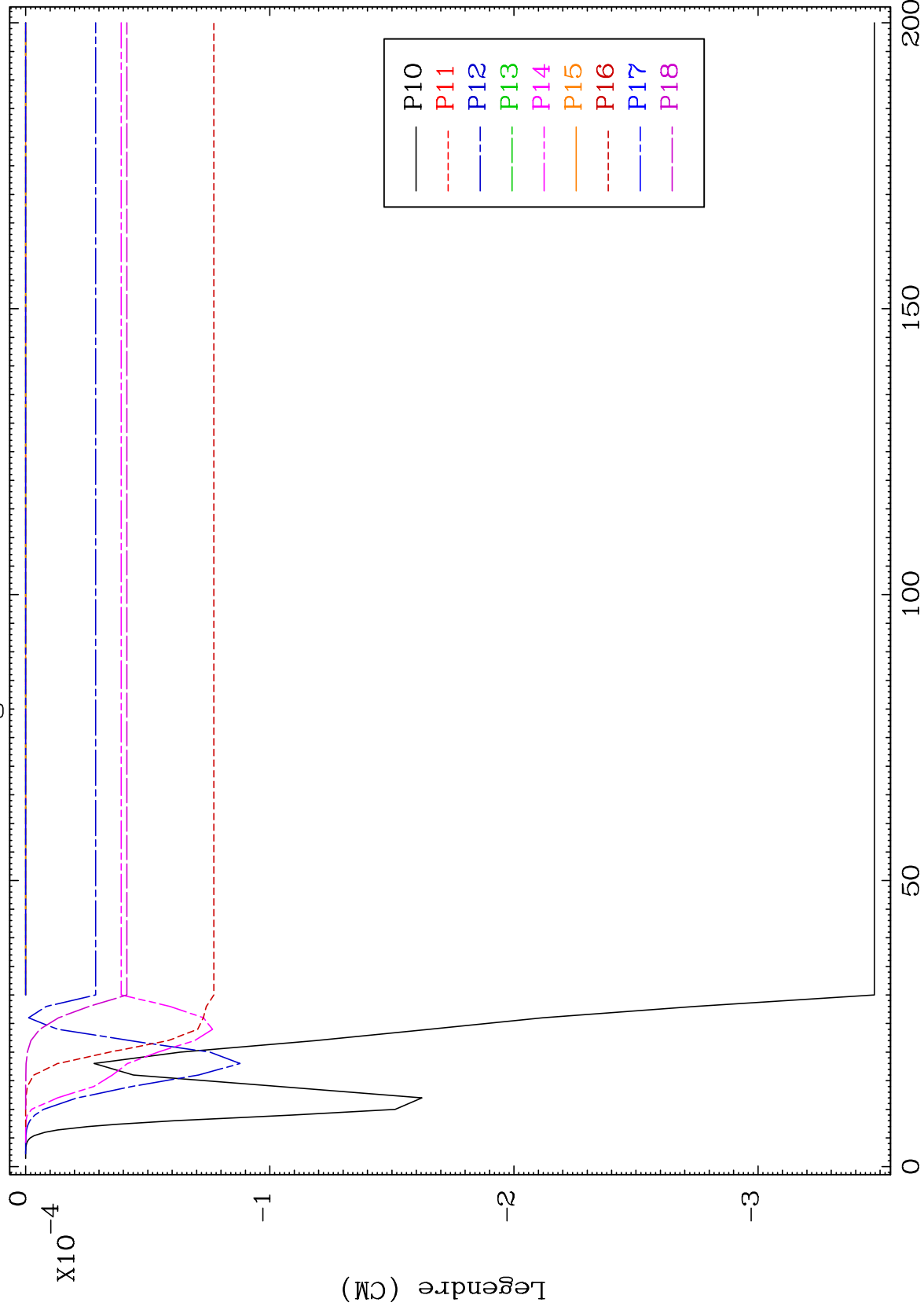
30

MAT 5307

MT= 54 (n,n') Level

53-I -121

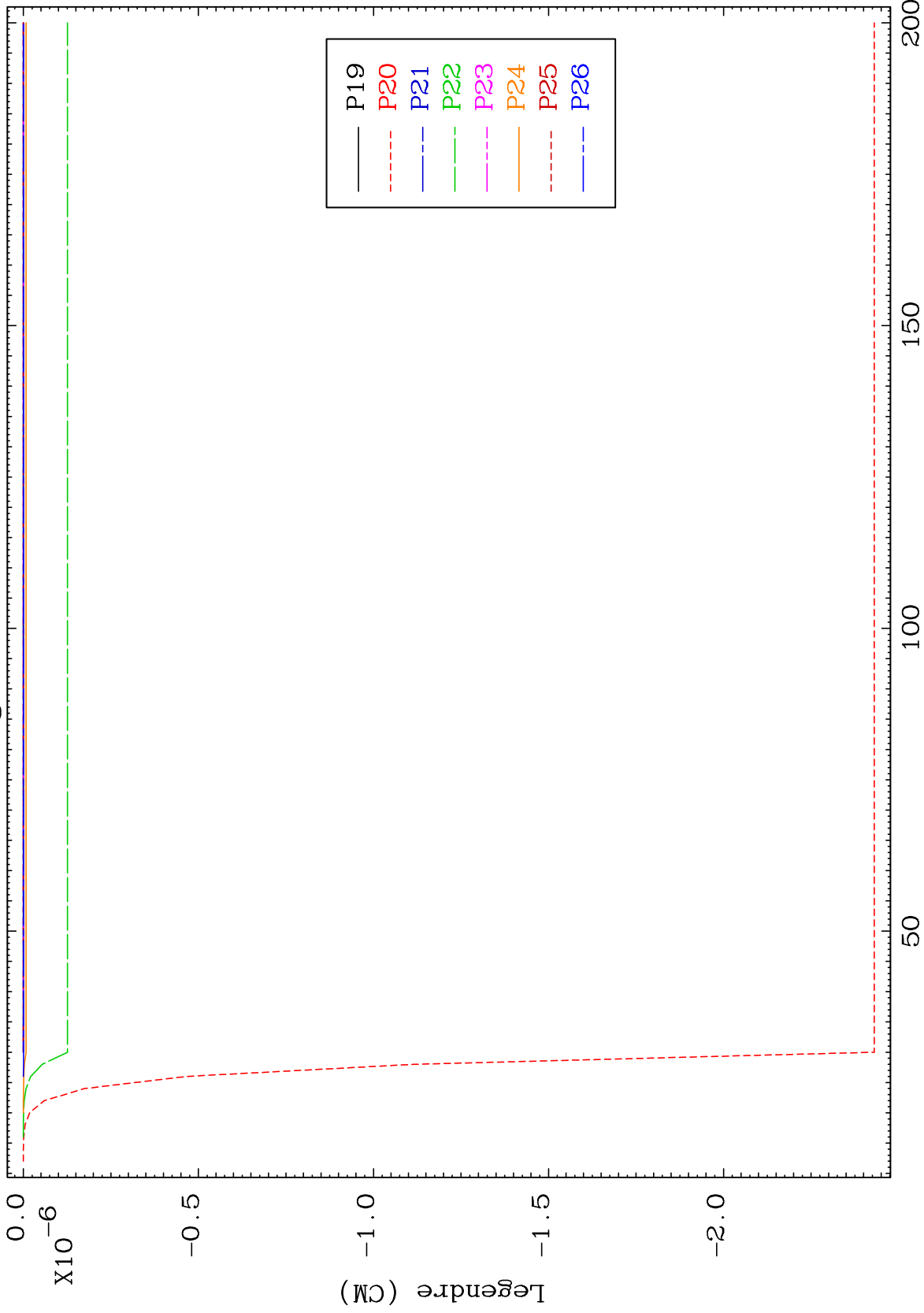
Legendre Coefficients



31

Incident Energy (MeV)

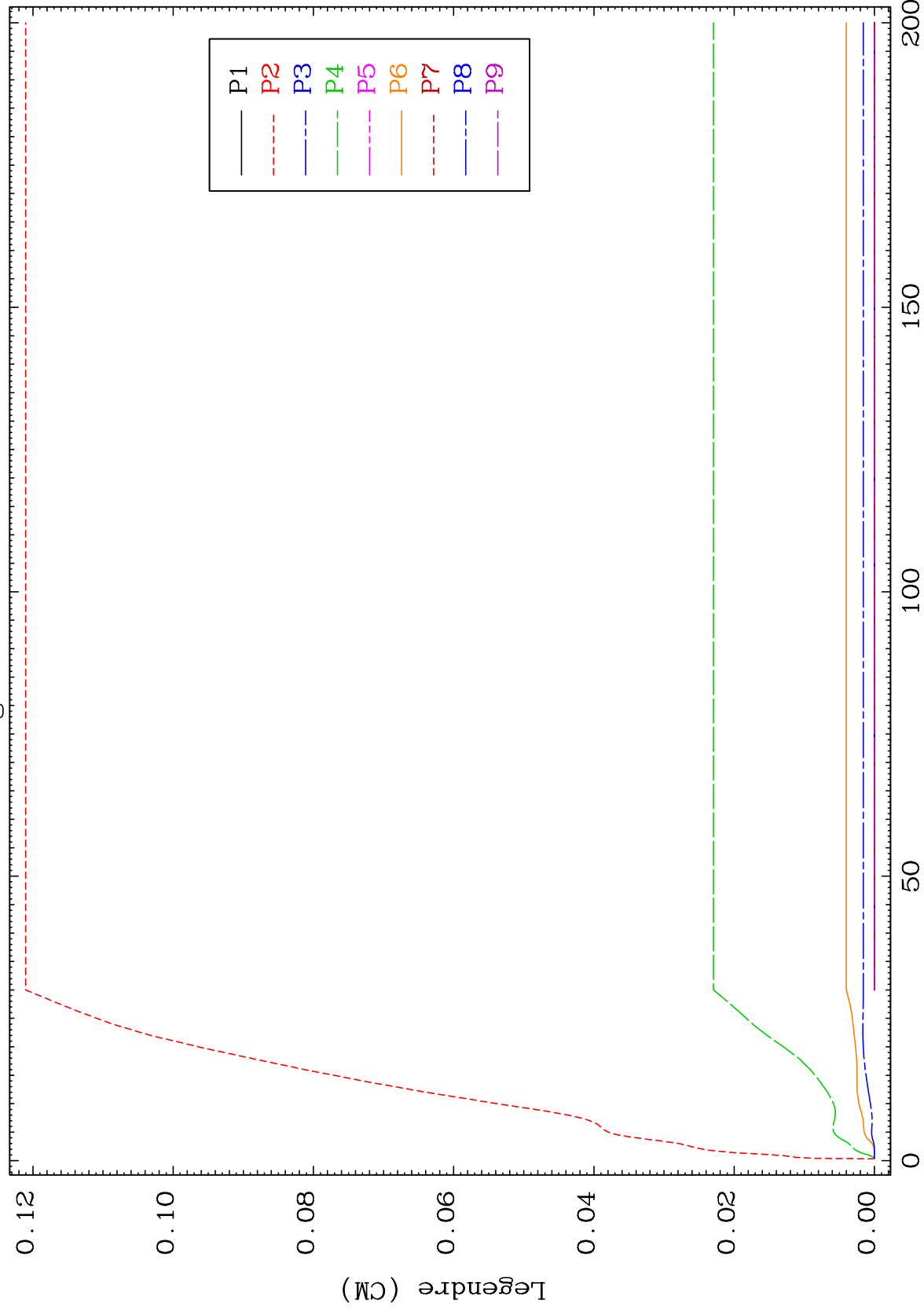
53-I -121



MAT 5307

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

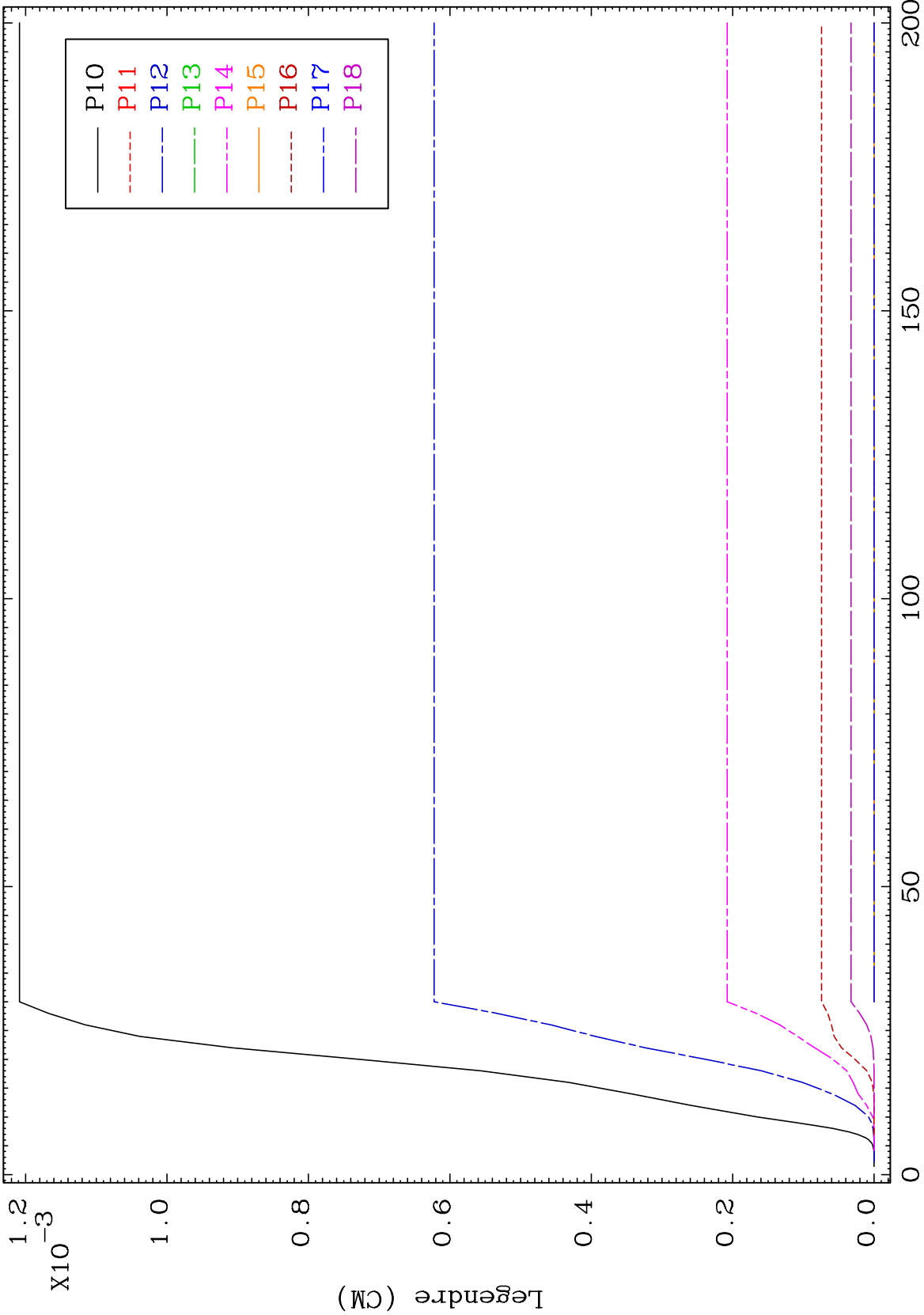
53-I -121



33

Incident Energy (MeV)

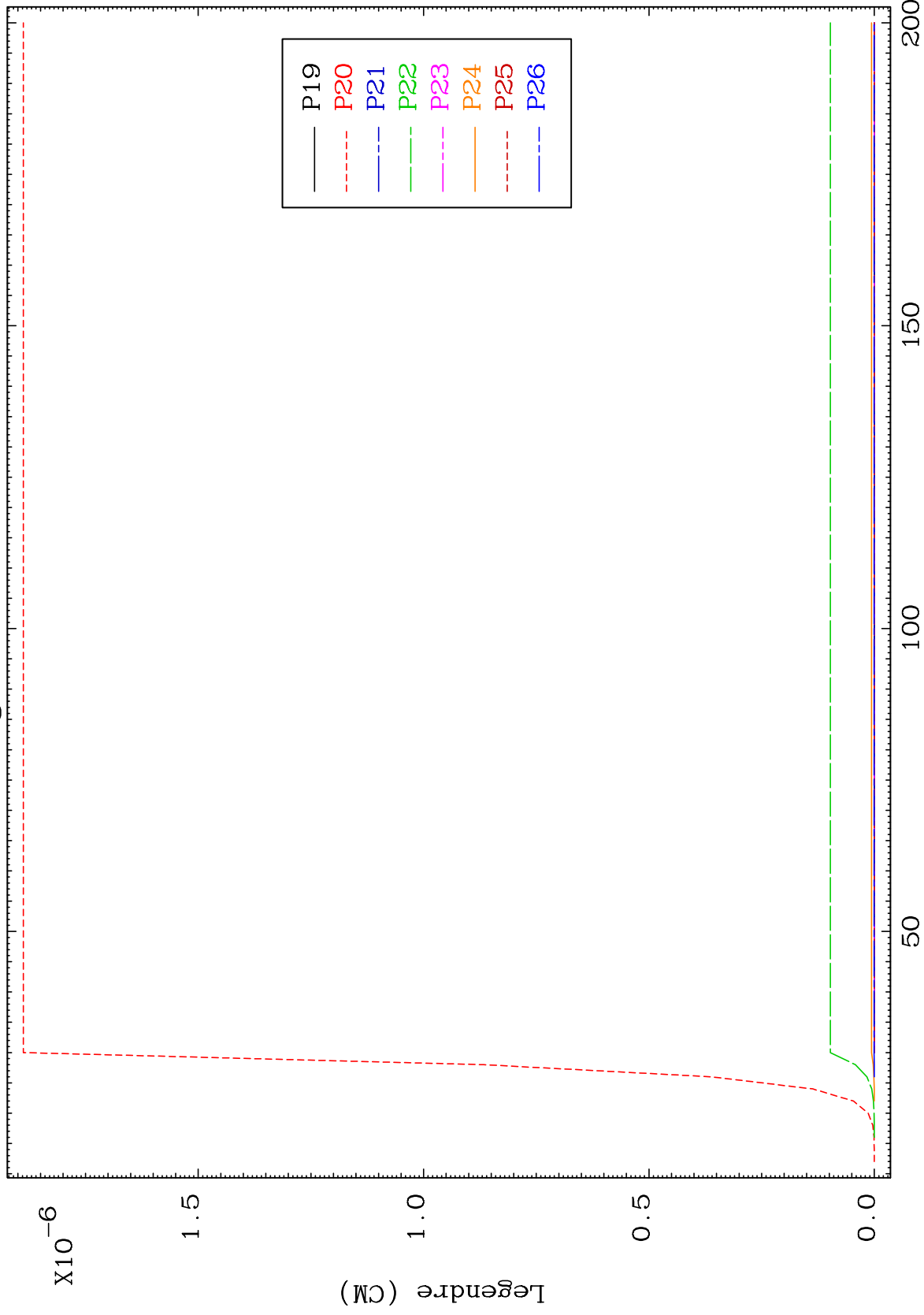
53-I -121



MAT 5307

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

53-I -121



35

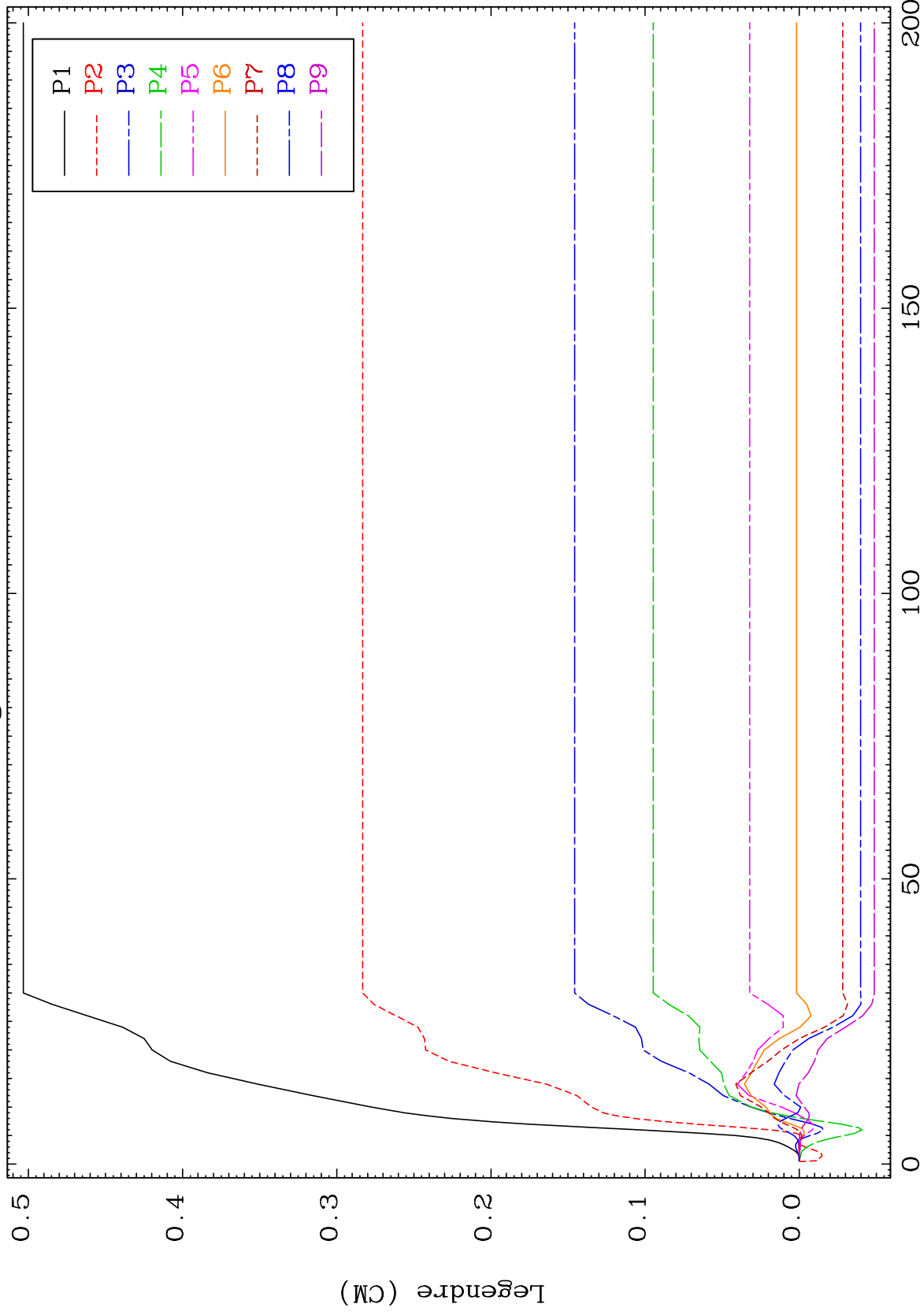
Incident Energy (MeV)

53-I -121

MAT 5307

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

53-I -121



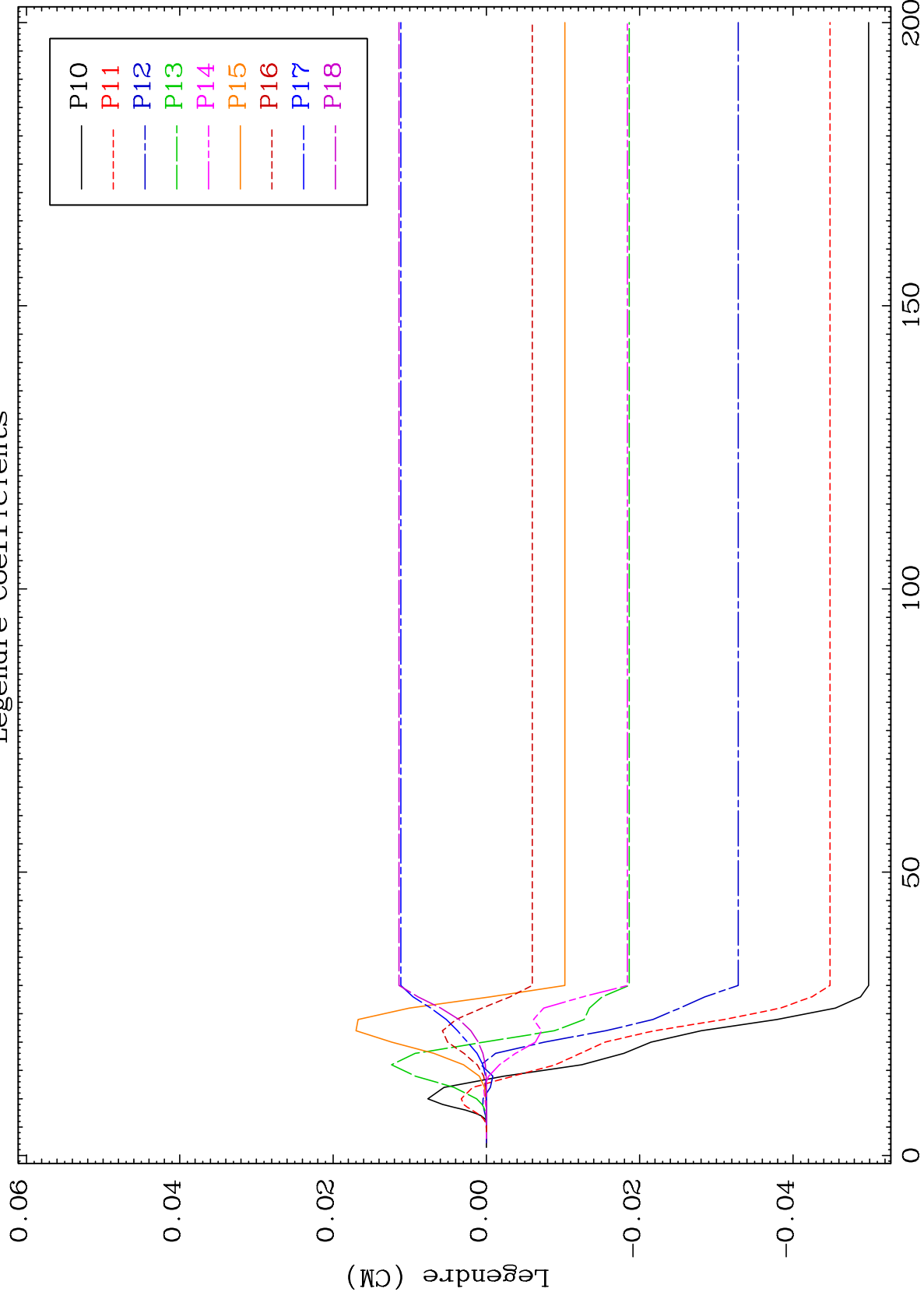
36

53-I -121

MAT 5307

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

53-I -121



37

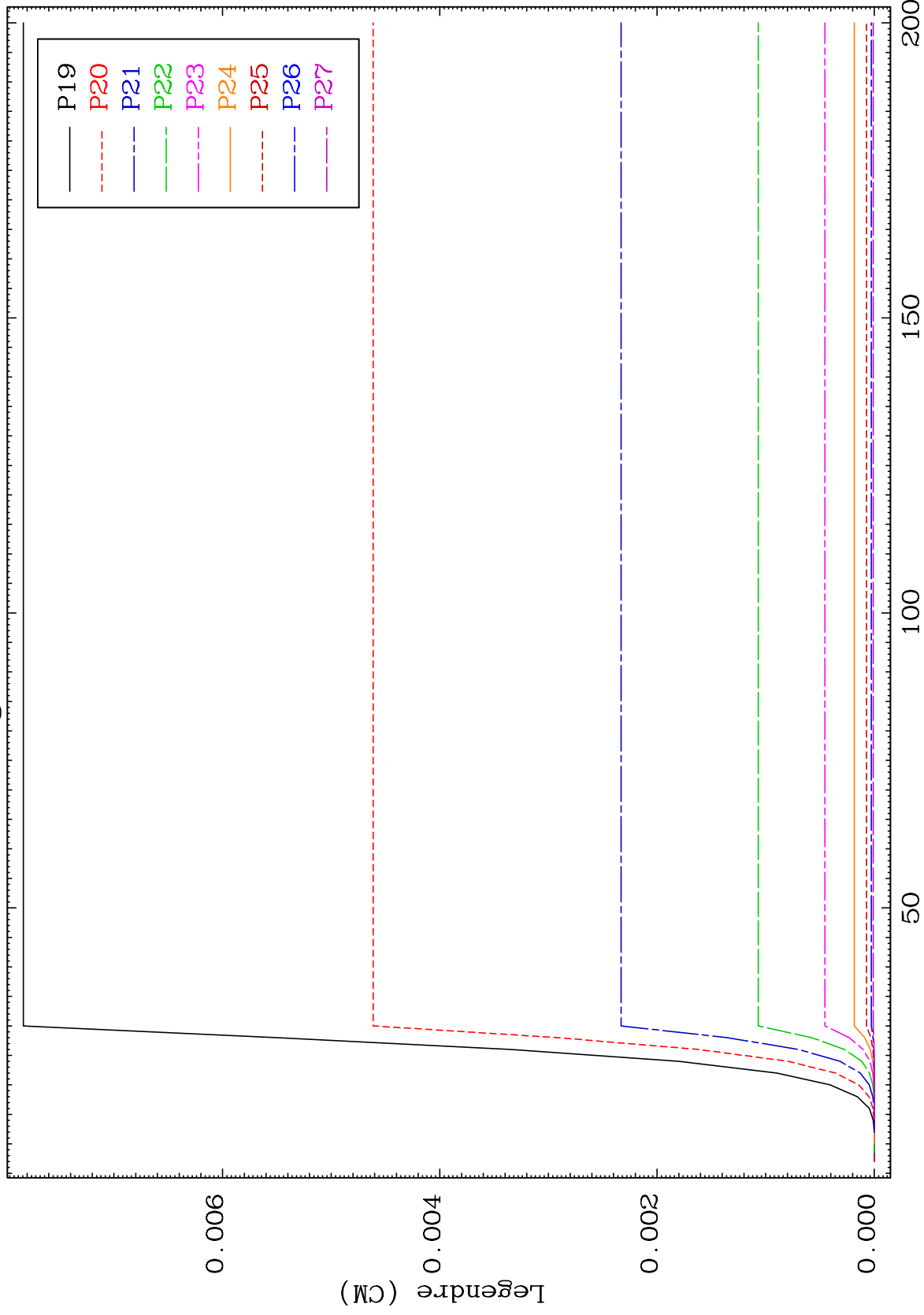
Incident Energy (MeV)

53-I -121

MAT 5307

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

53-I -121



38

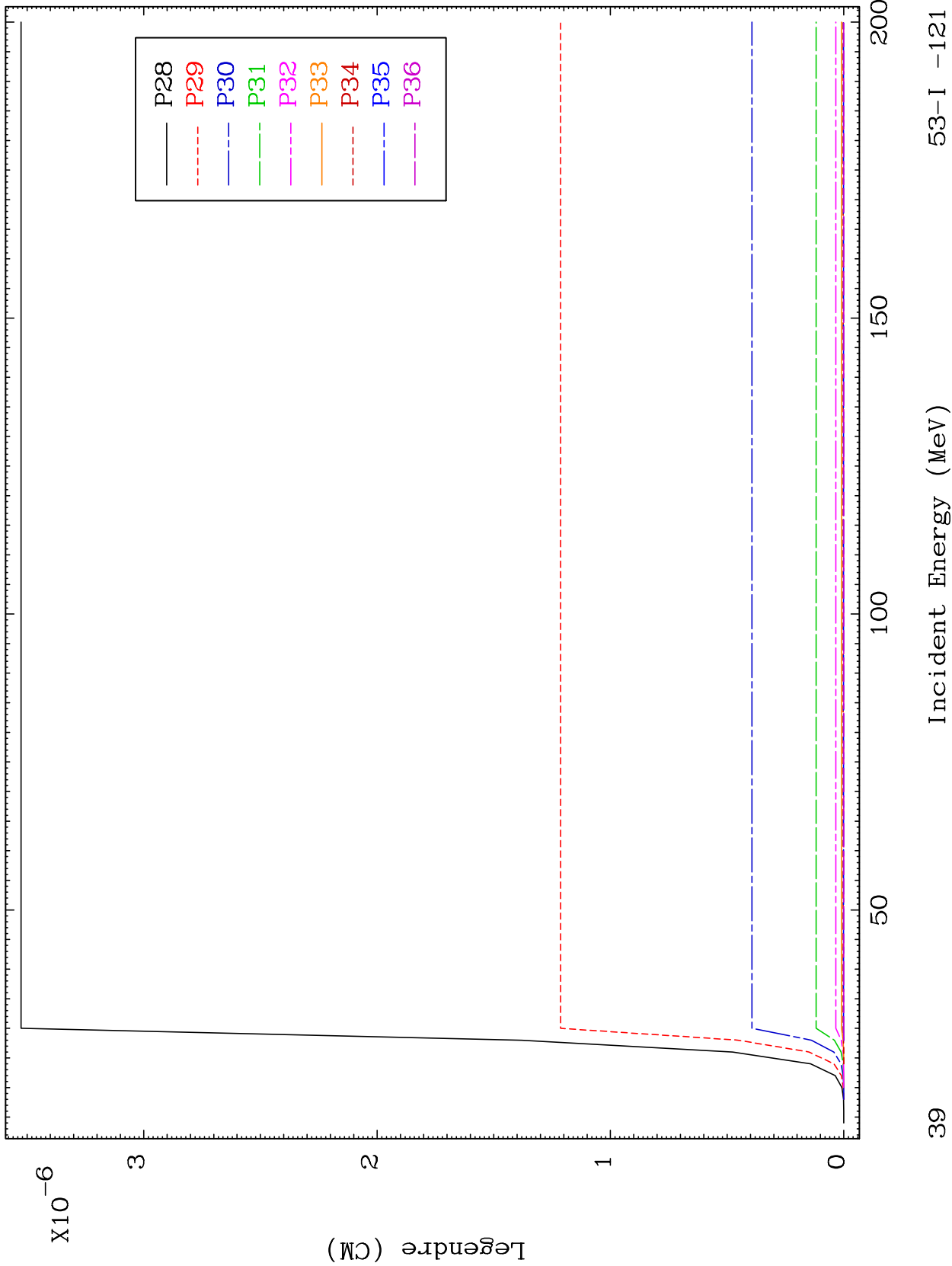
Incident Energy (MeV)

53-I -121

MAT 5307

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

53-I -121



39

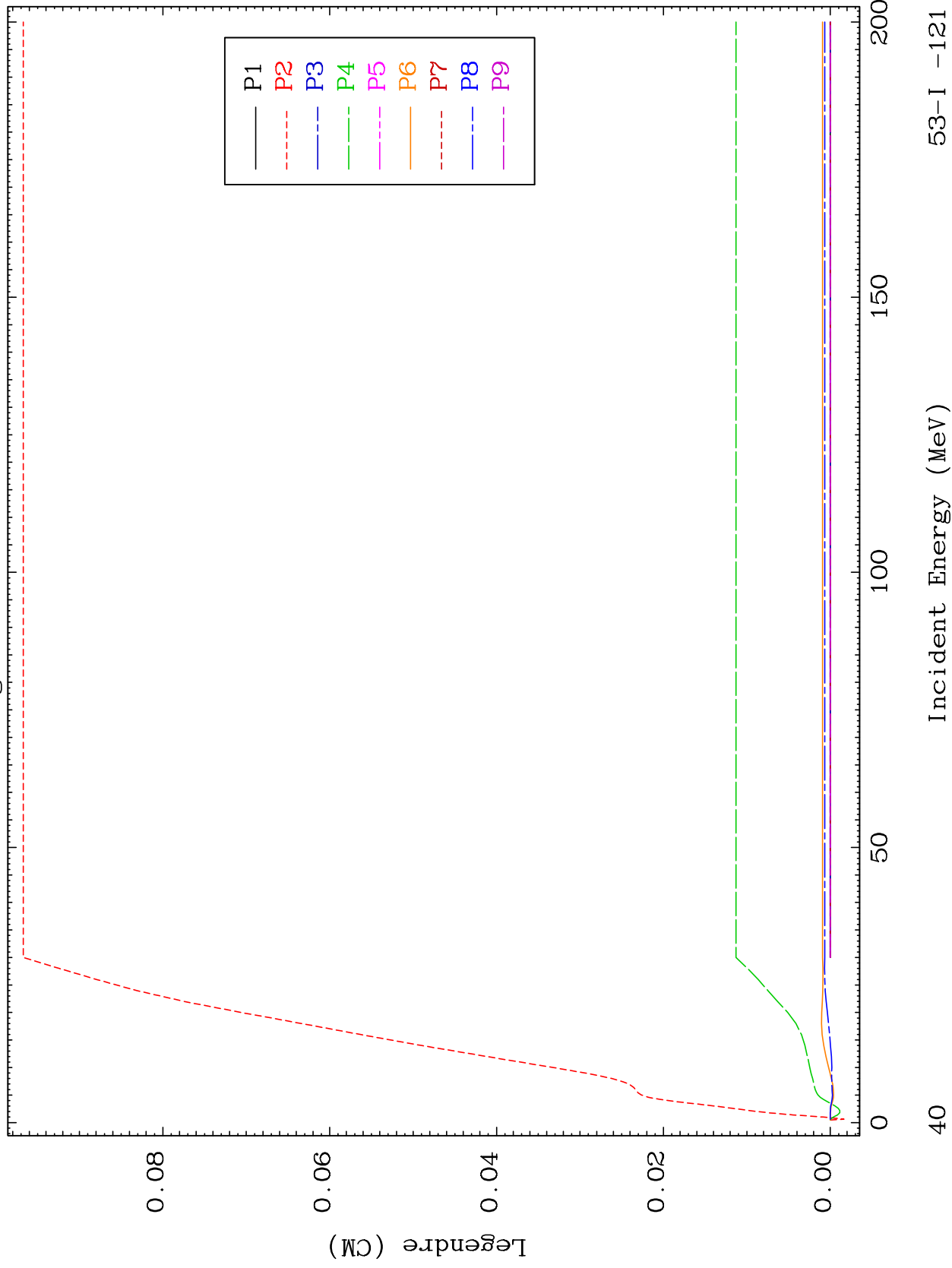
Incident Energy (MeV)

53-I -121

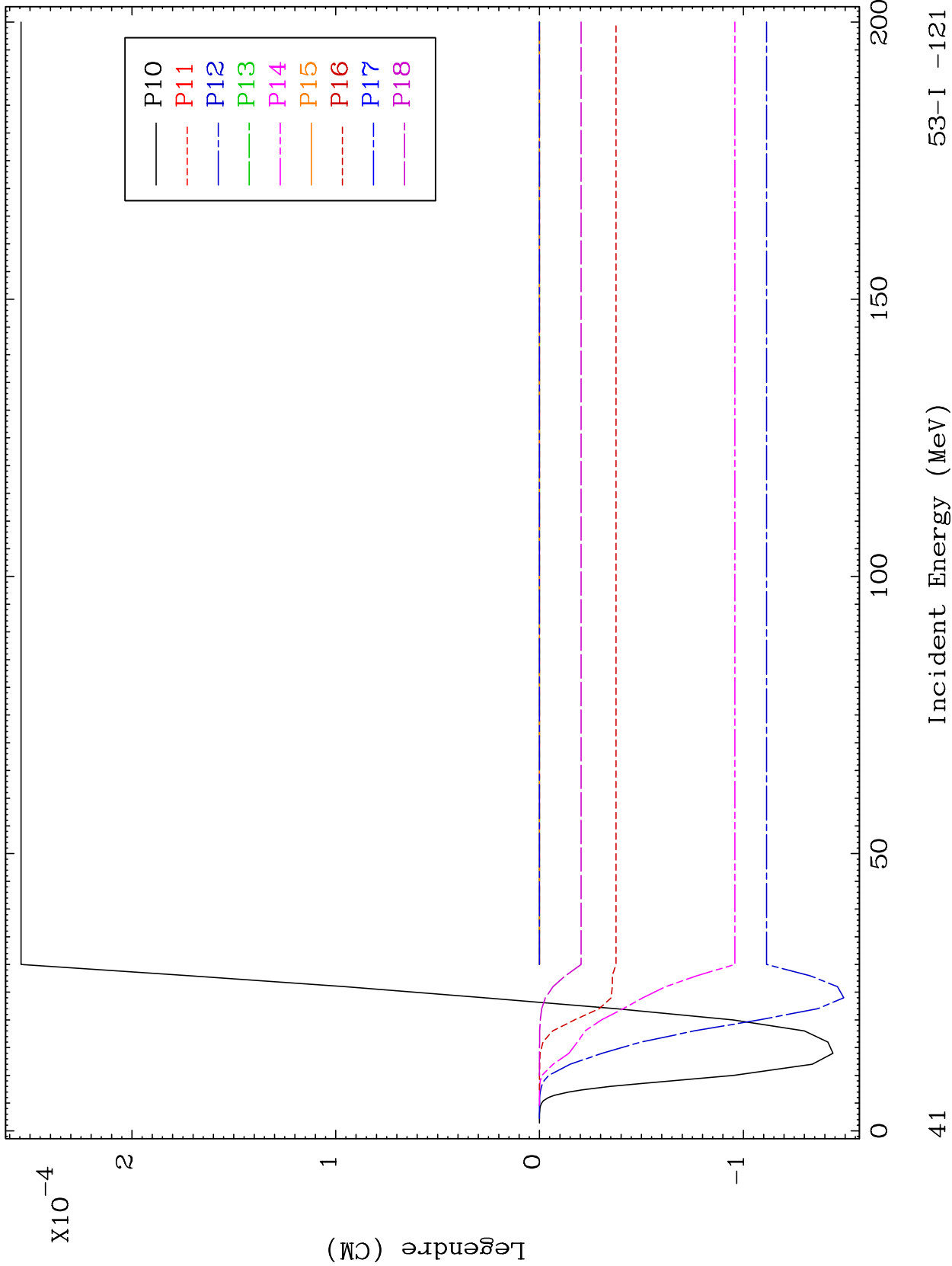
MAT 5307

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

53-I -121



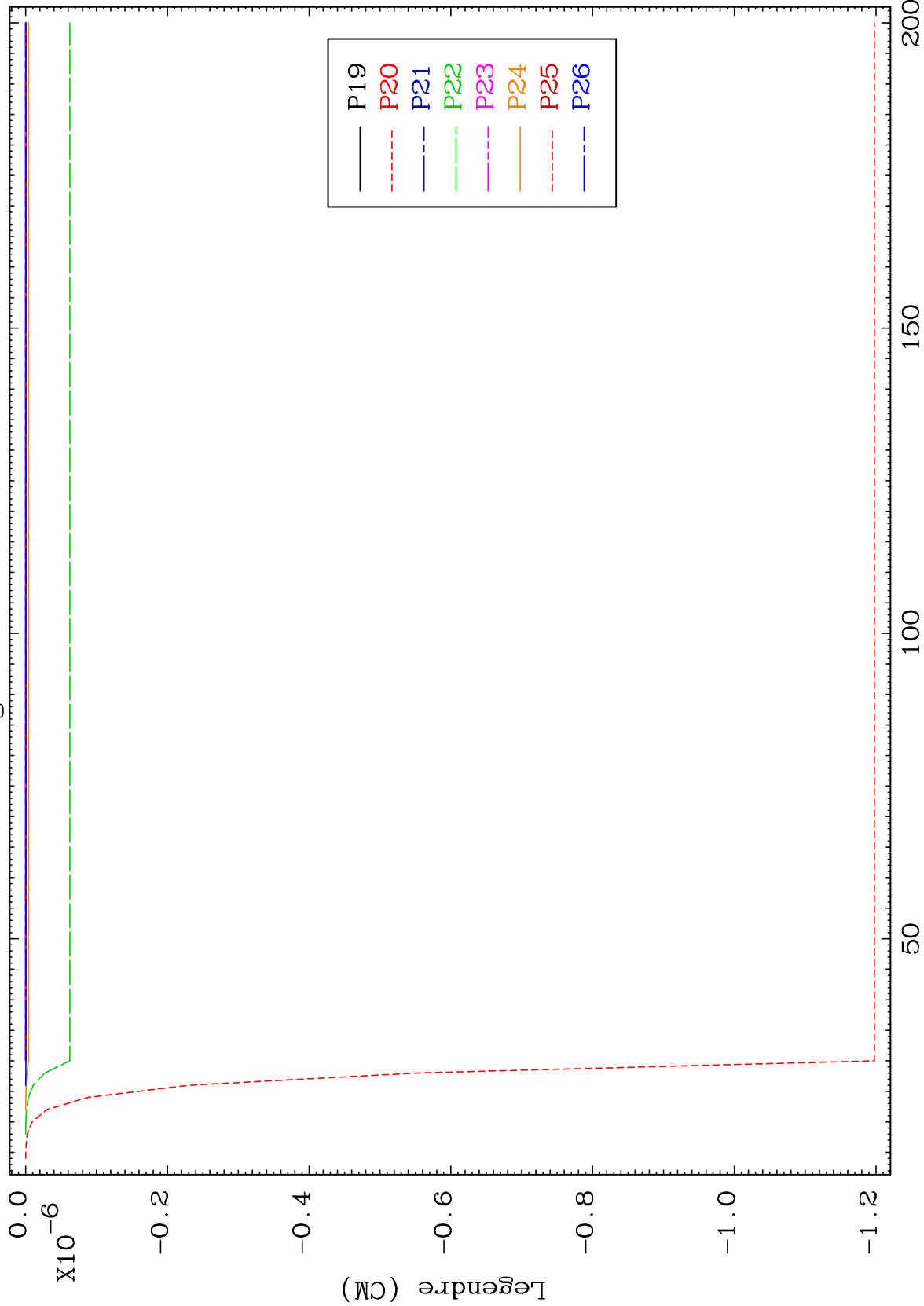
53-I -121



MAT 5307

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

53-I -121



42

Incident Energy (MeV)

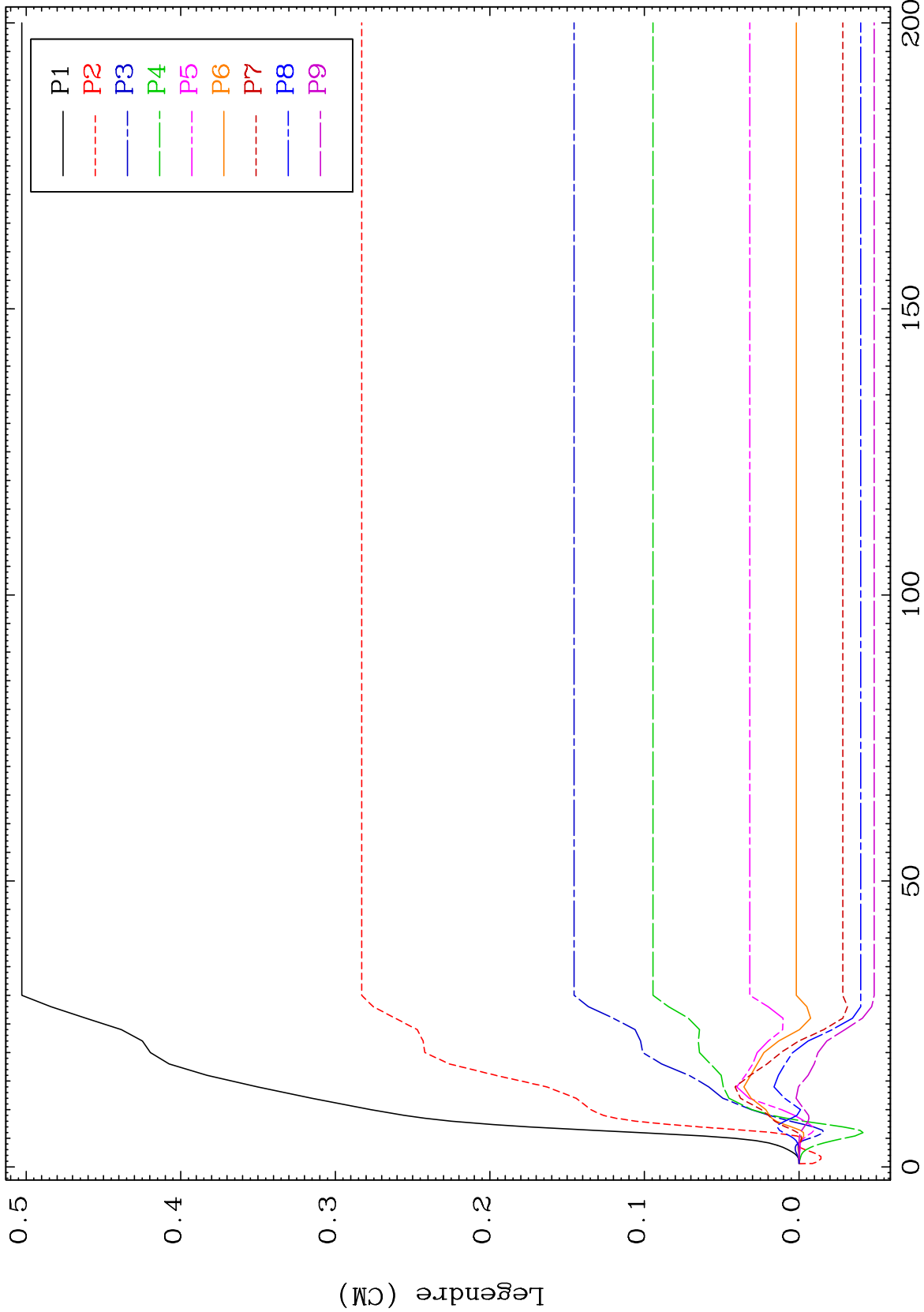
53-I -121

MAT 5307

MT= 58 (n,n') Level

53-I -121

Legendre Coefficients



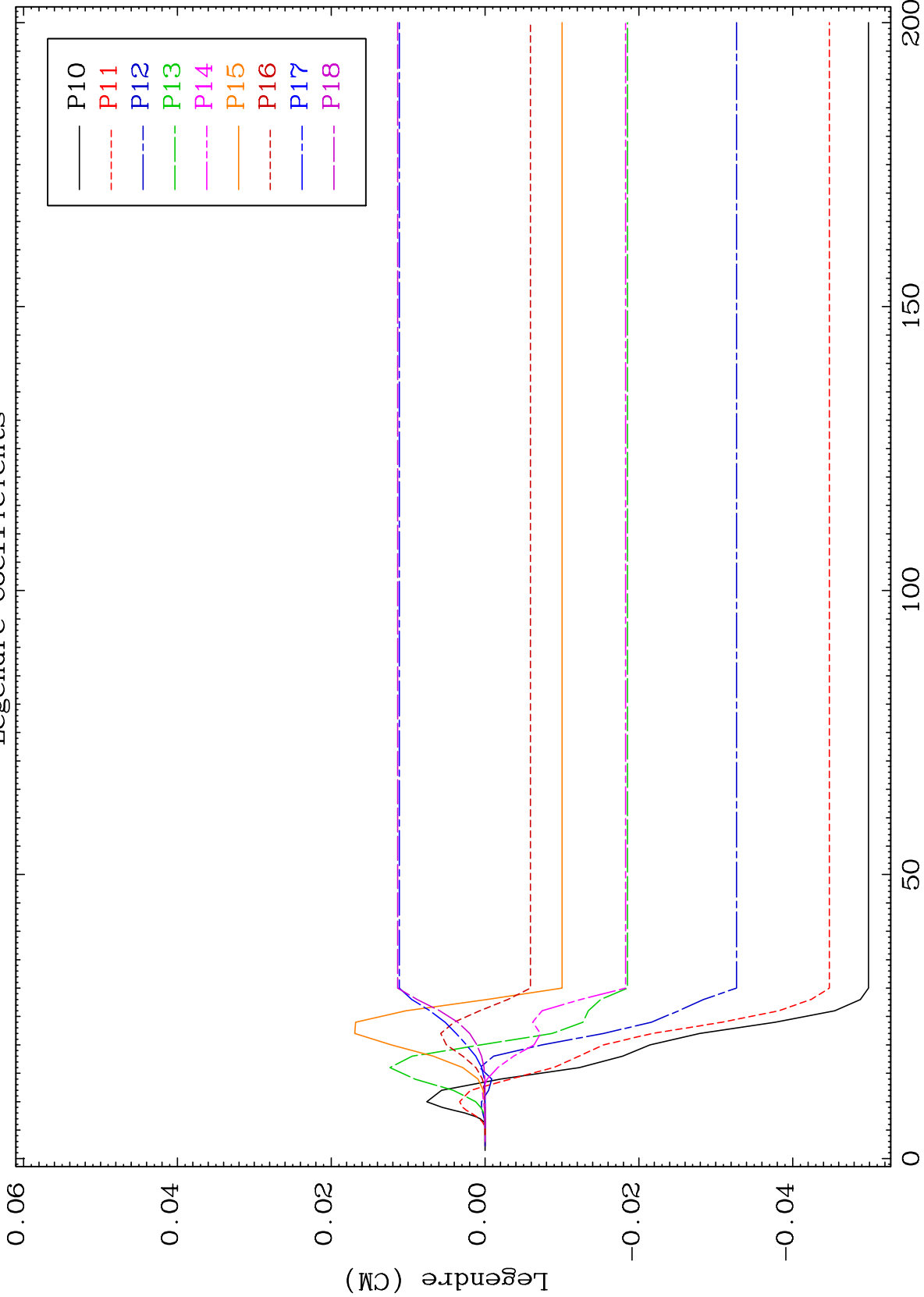
43

53-I -121

MAT 5307

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

53-I -121



44

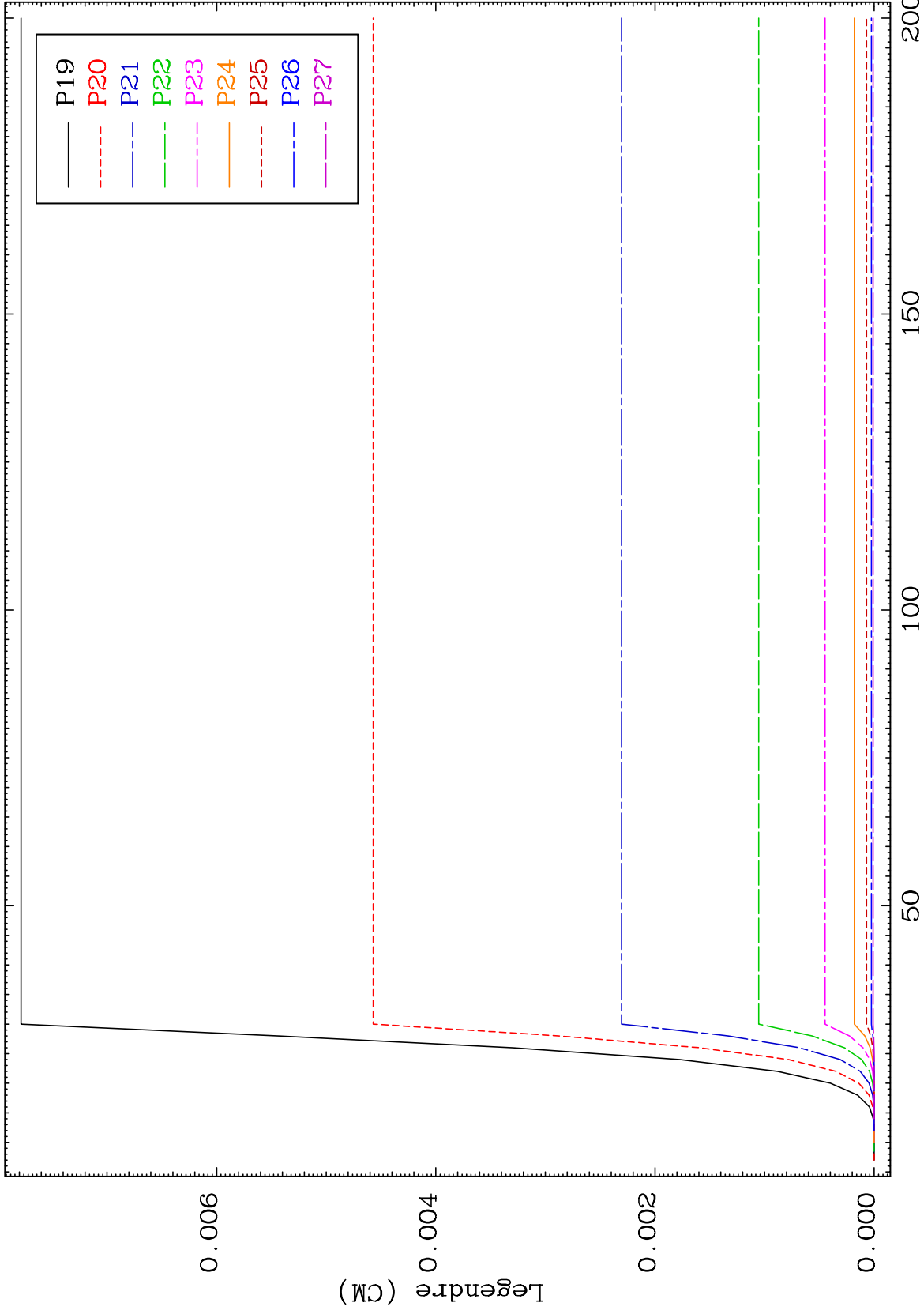
Incident Energy (MeV)

53-I -121

MAT 5307

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

53-I -121



45

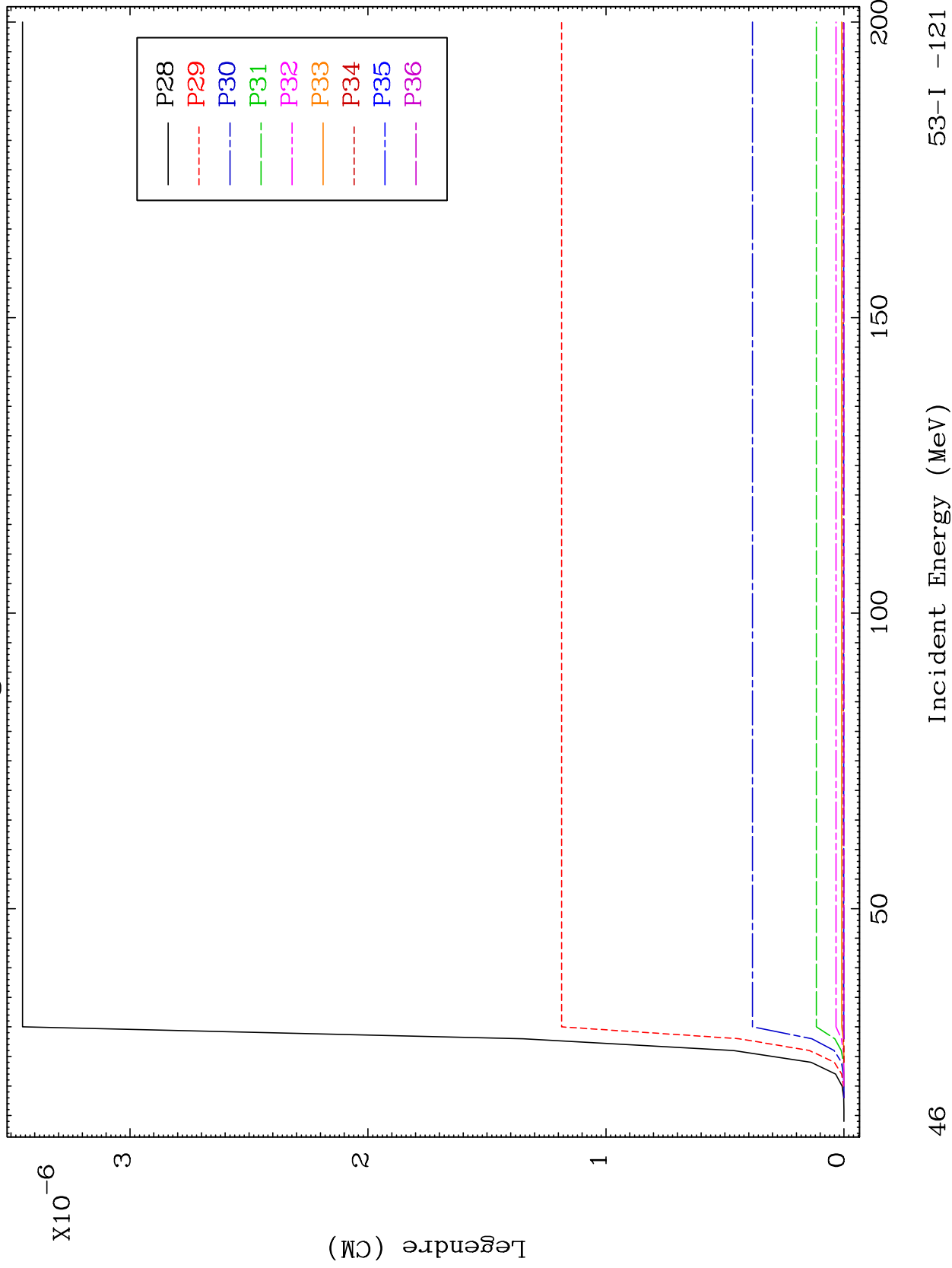
Incident Energy (MeV)

53-I -121

MAT 5307

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

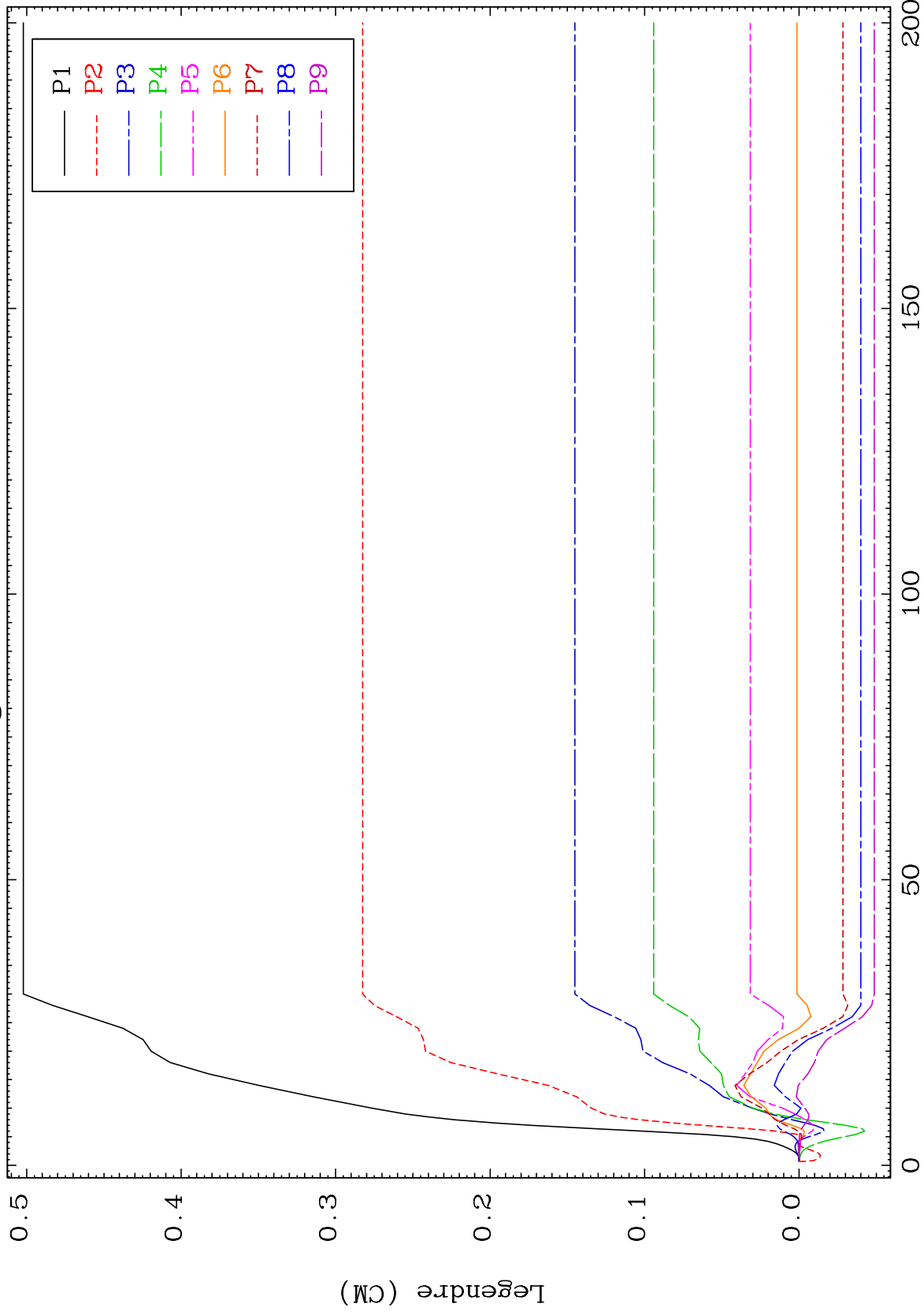
53-I -121



MAT 5307

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

53-I -121



47

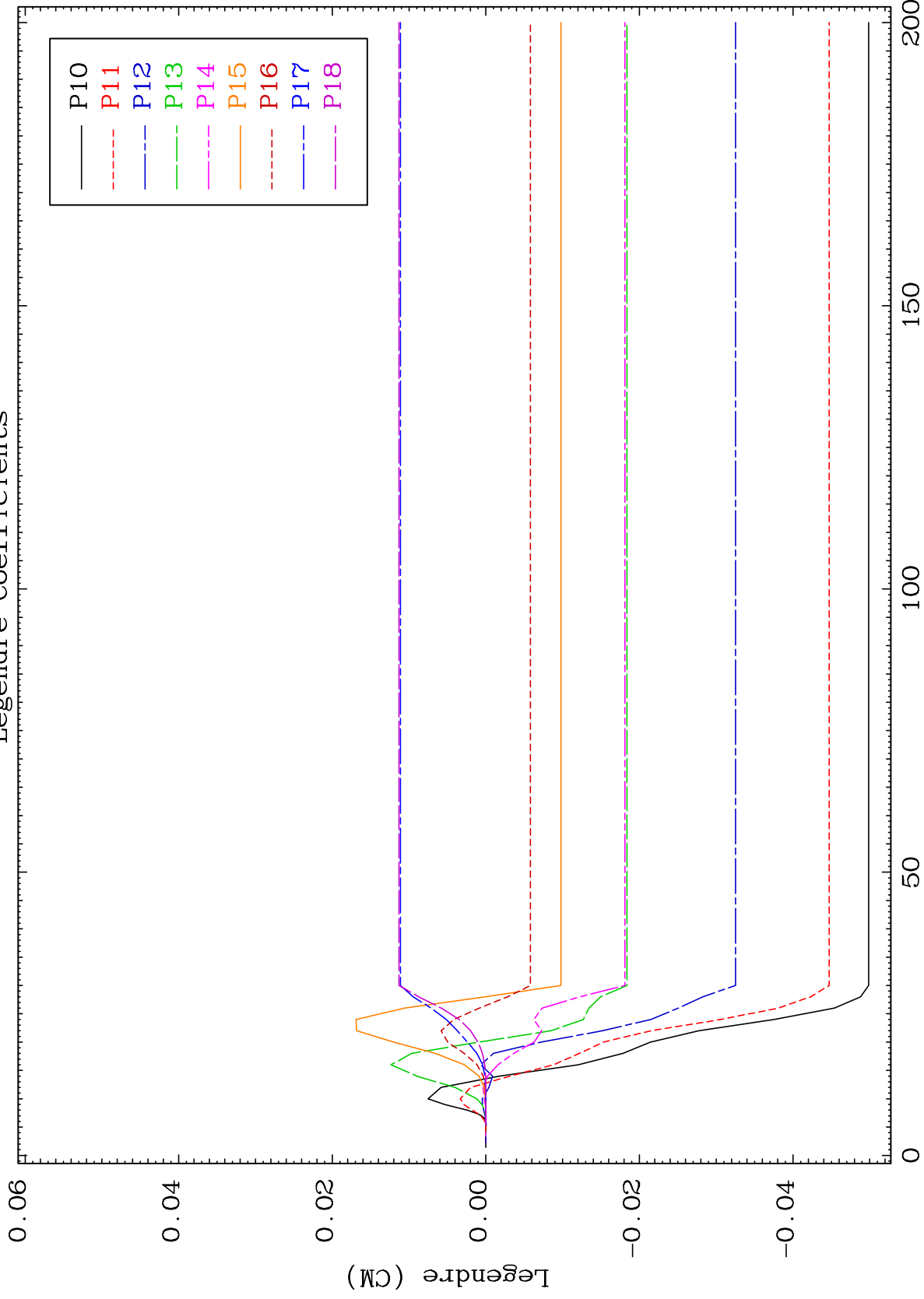
Incident Energy (MeV)

53-I -121

MAT 5307

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

53-I -121



48

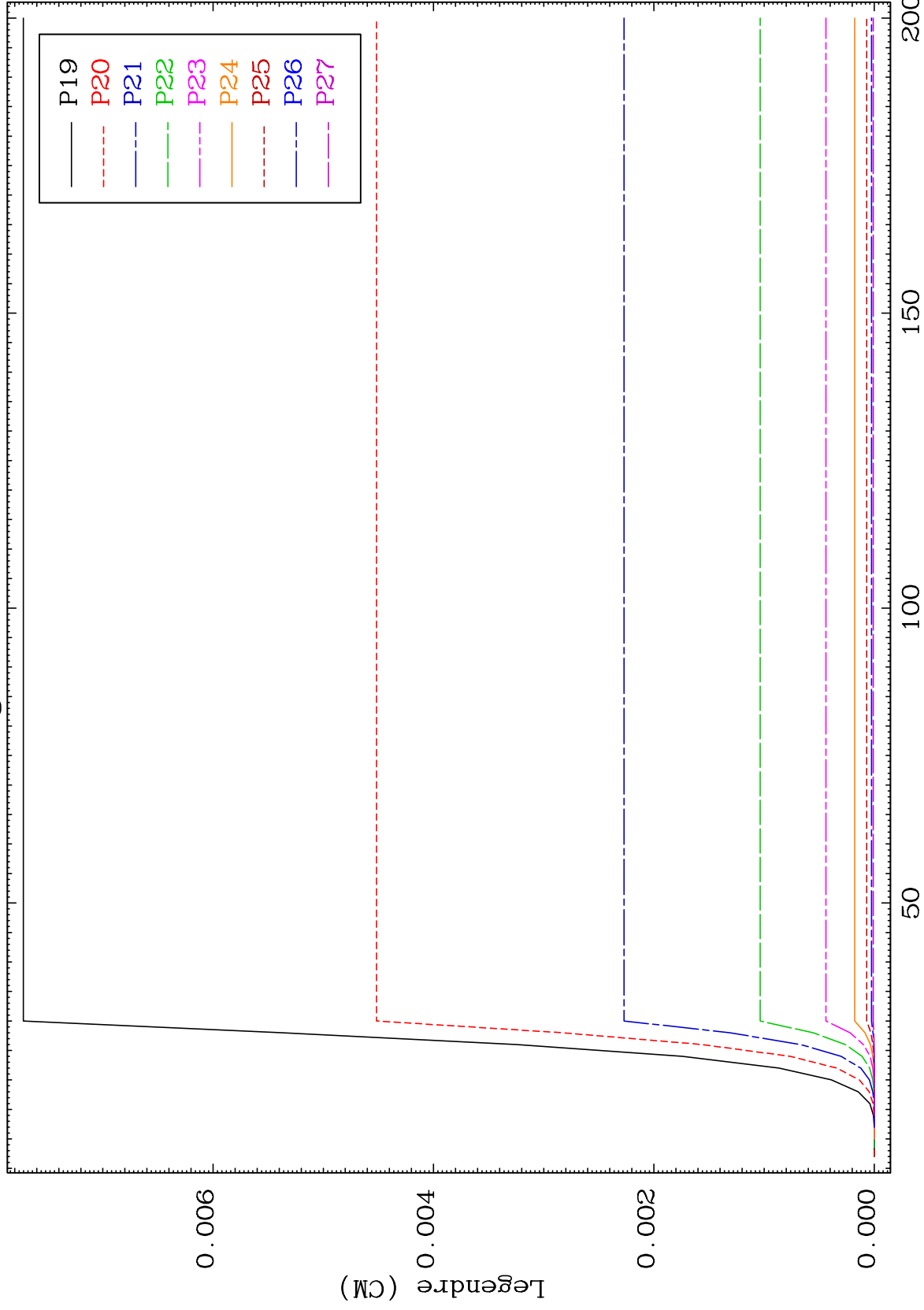
Incident Energy (MeV)

53-I -121

MAT 5307

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

53-I -121



49

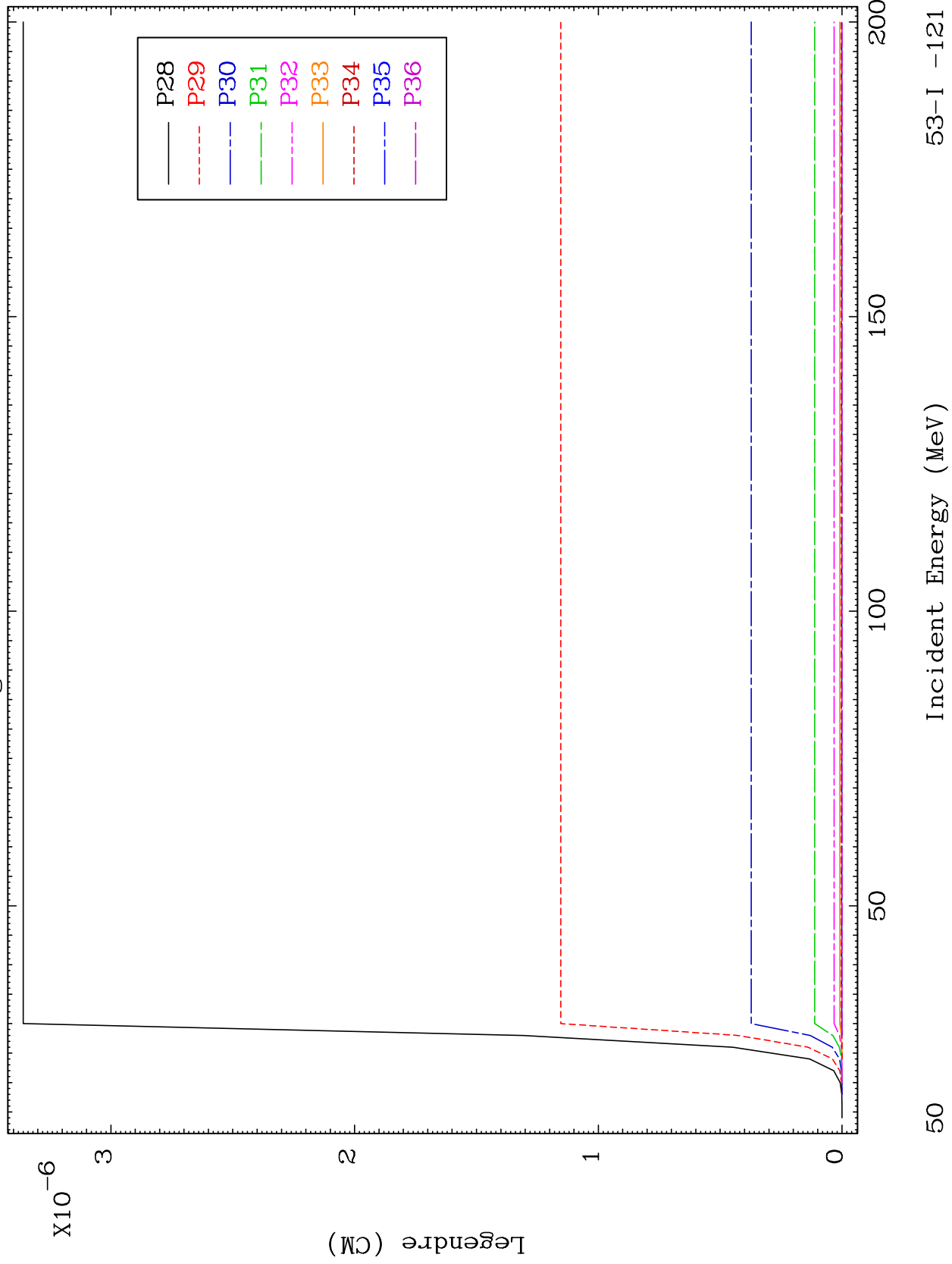
Incident Energy (MeV)

53-I -121

MAT 5307

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

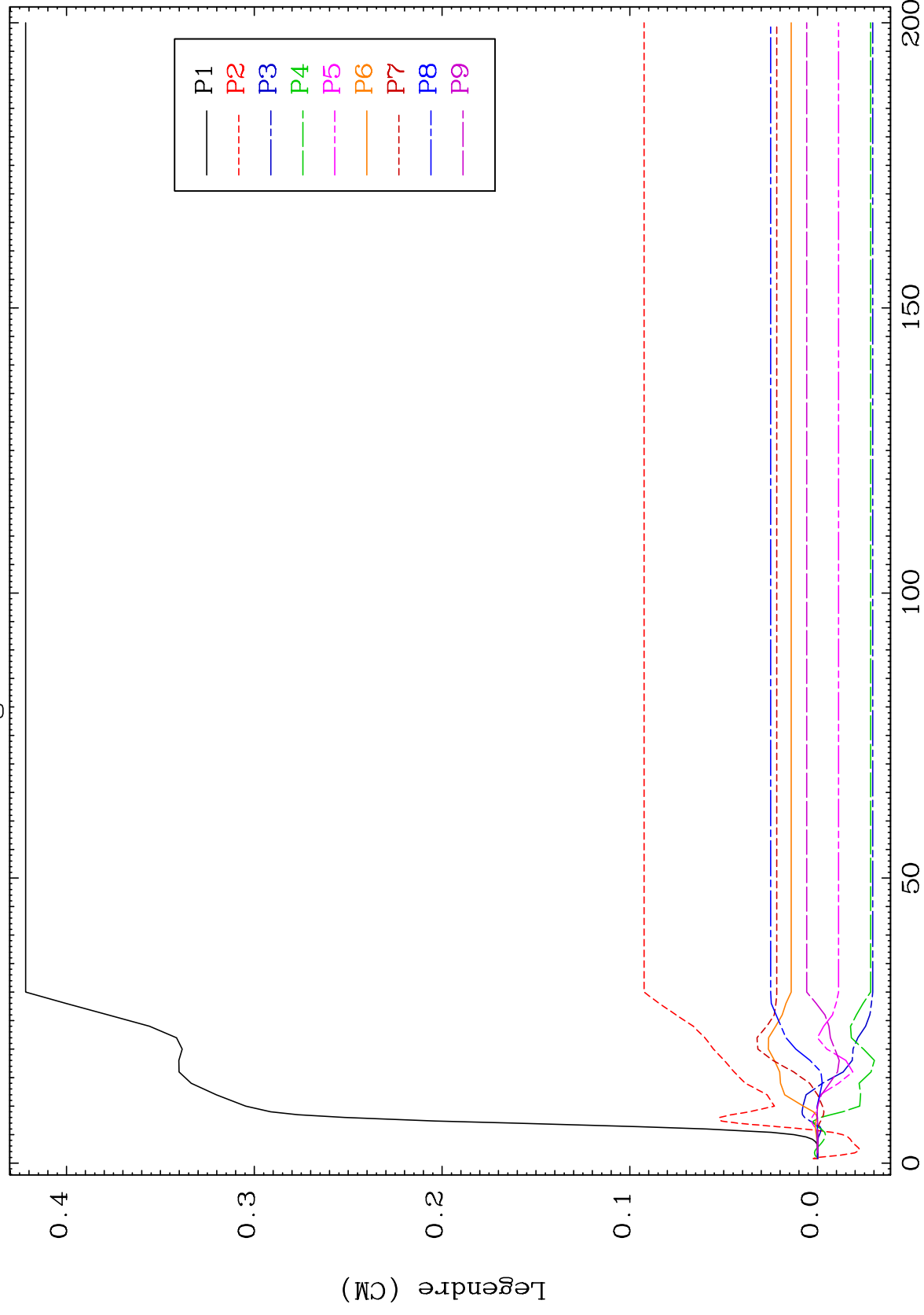
53-I -121



53-I -121

Incident Energy (MeV)

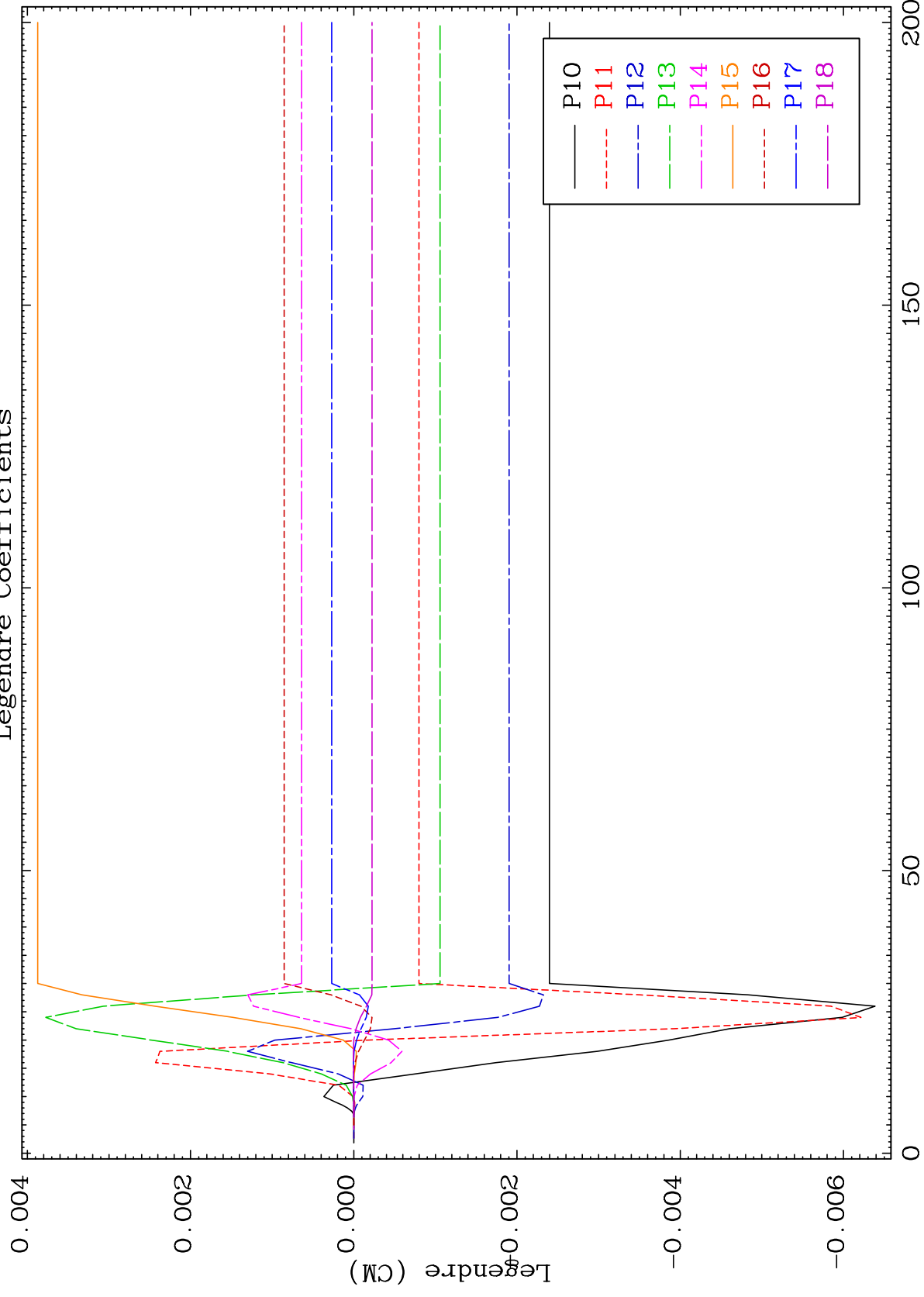
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MAT 5307

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

53-I -121



52

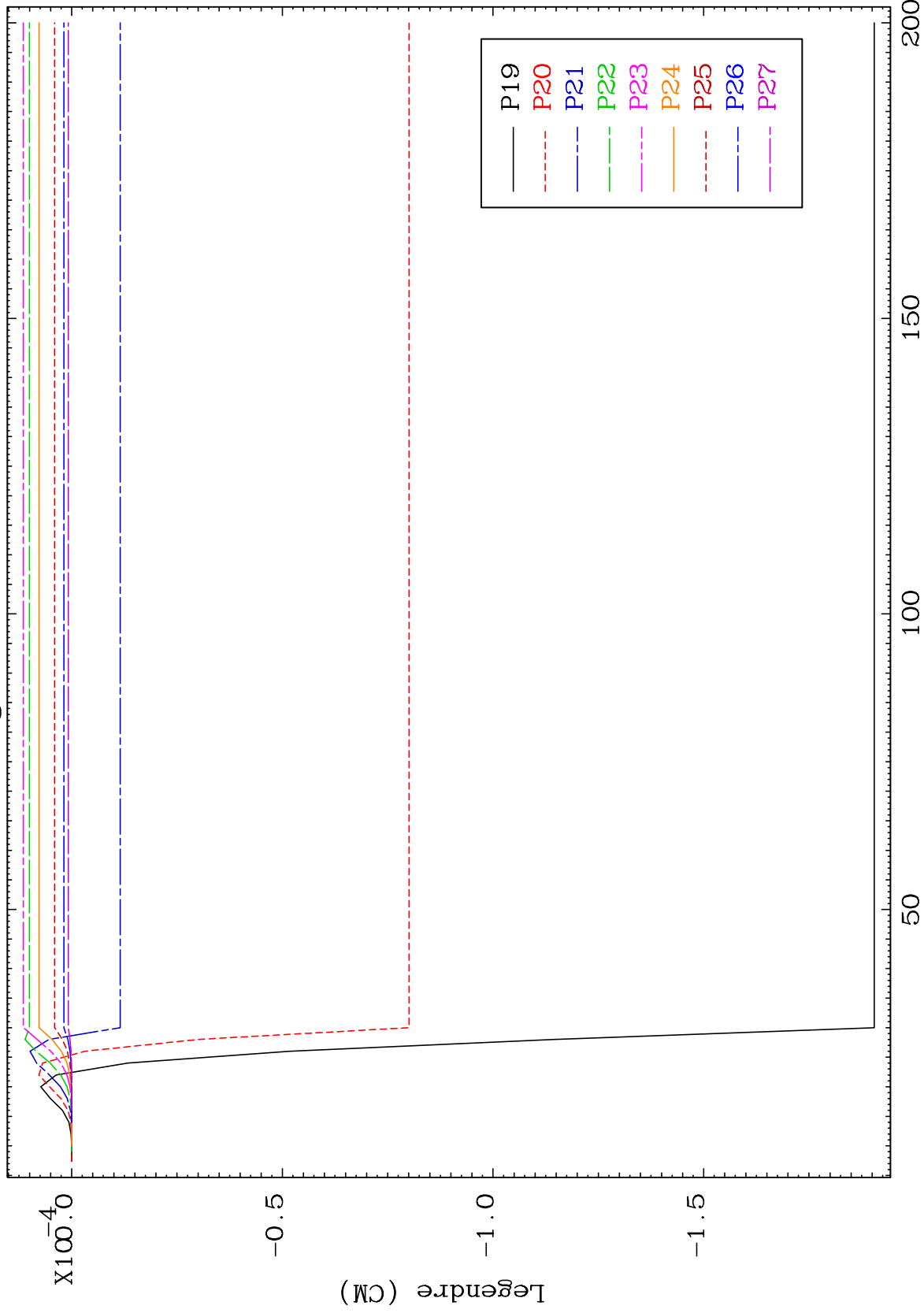
Incident Energy (MeV)

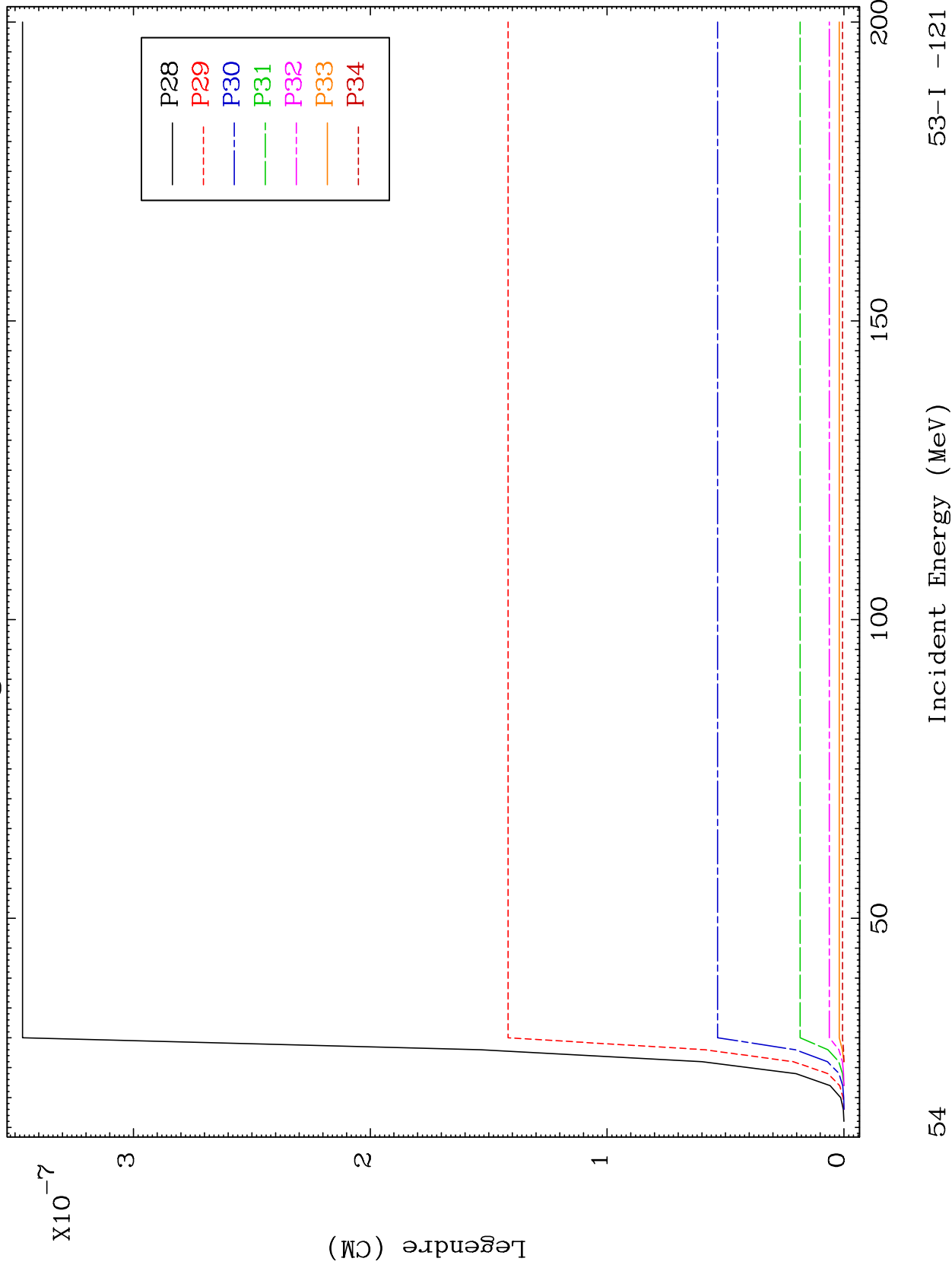
53-I -121

MAT 5307

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

53-I -121

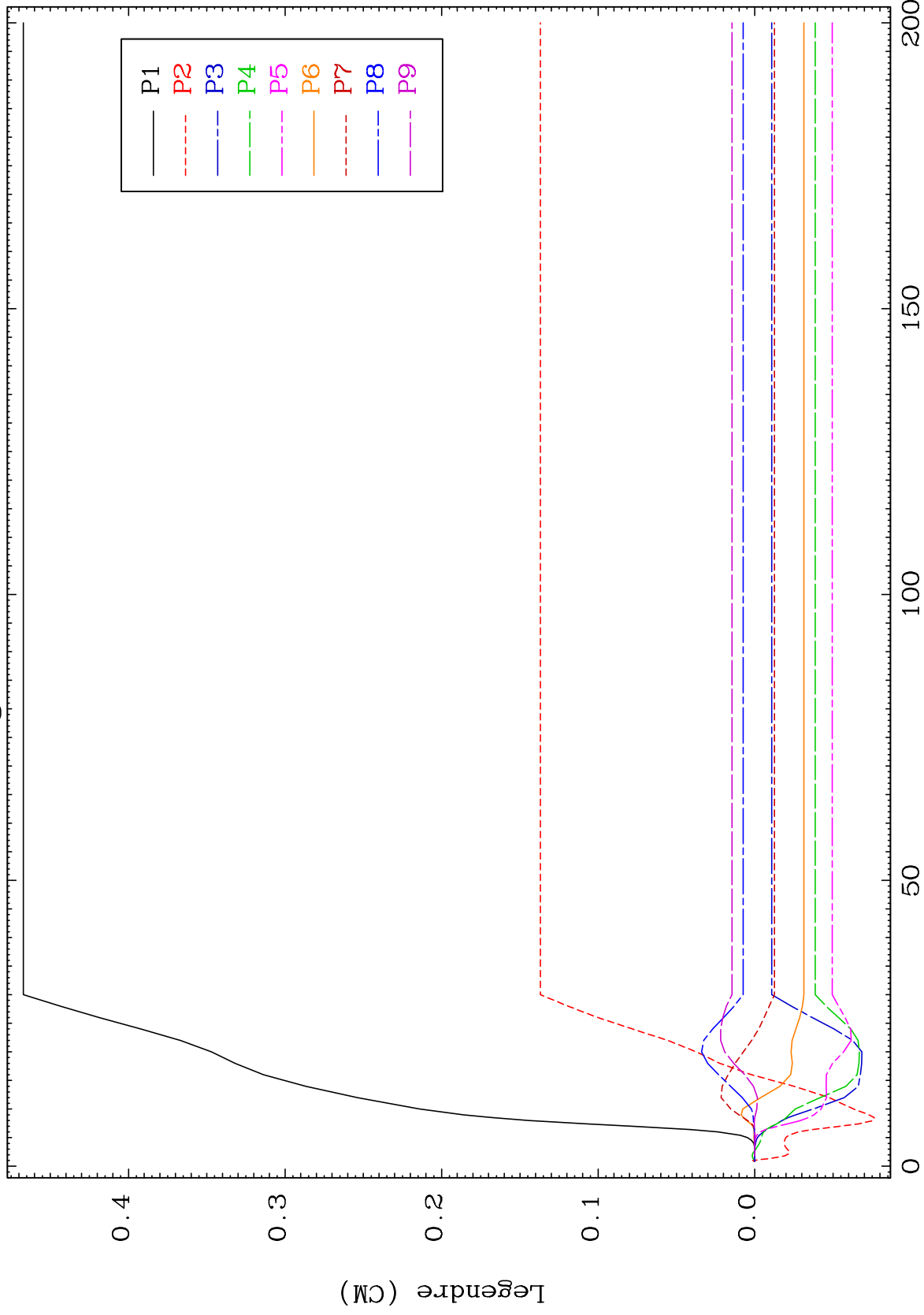




MAT 5307

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

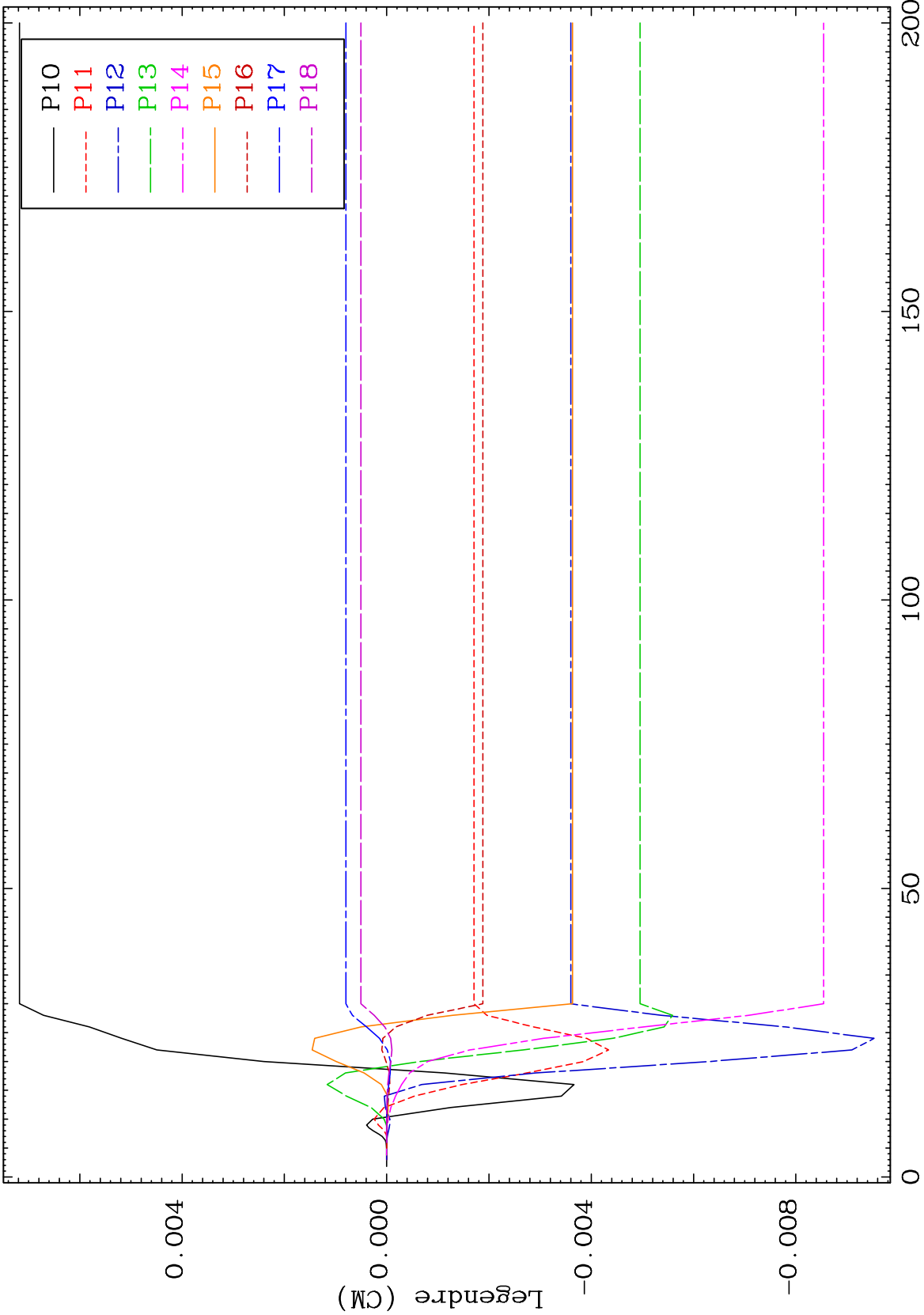
53-I -121

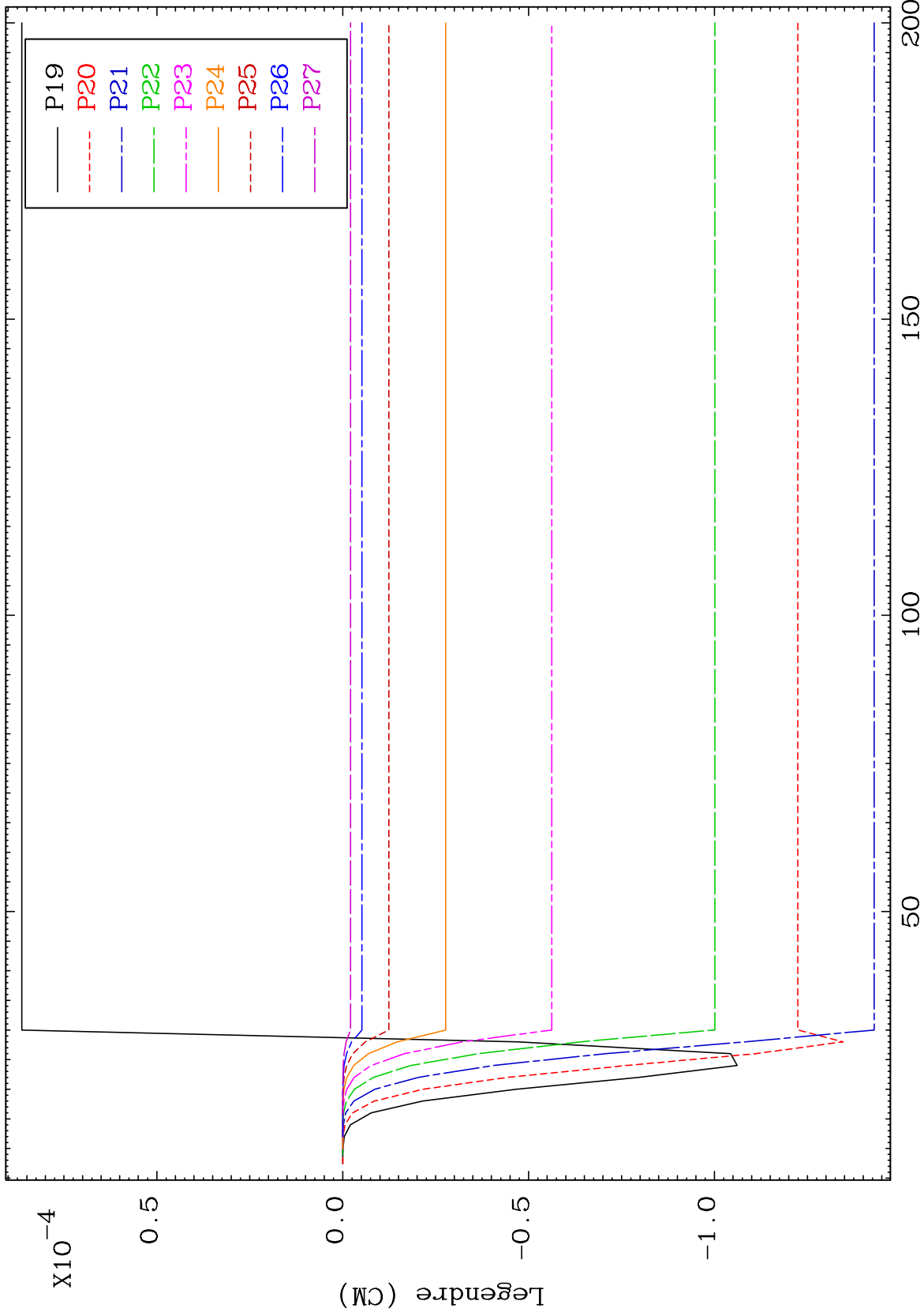


53-I -121

Incident Energy (MeV)

55

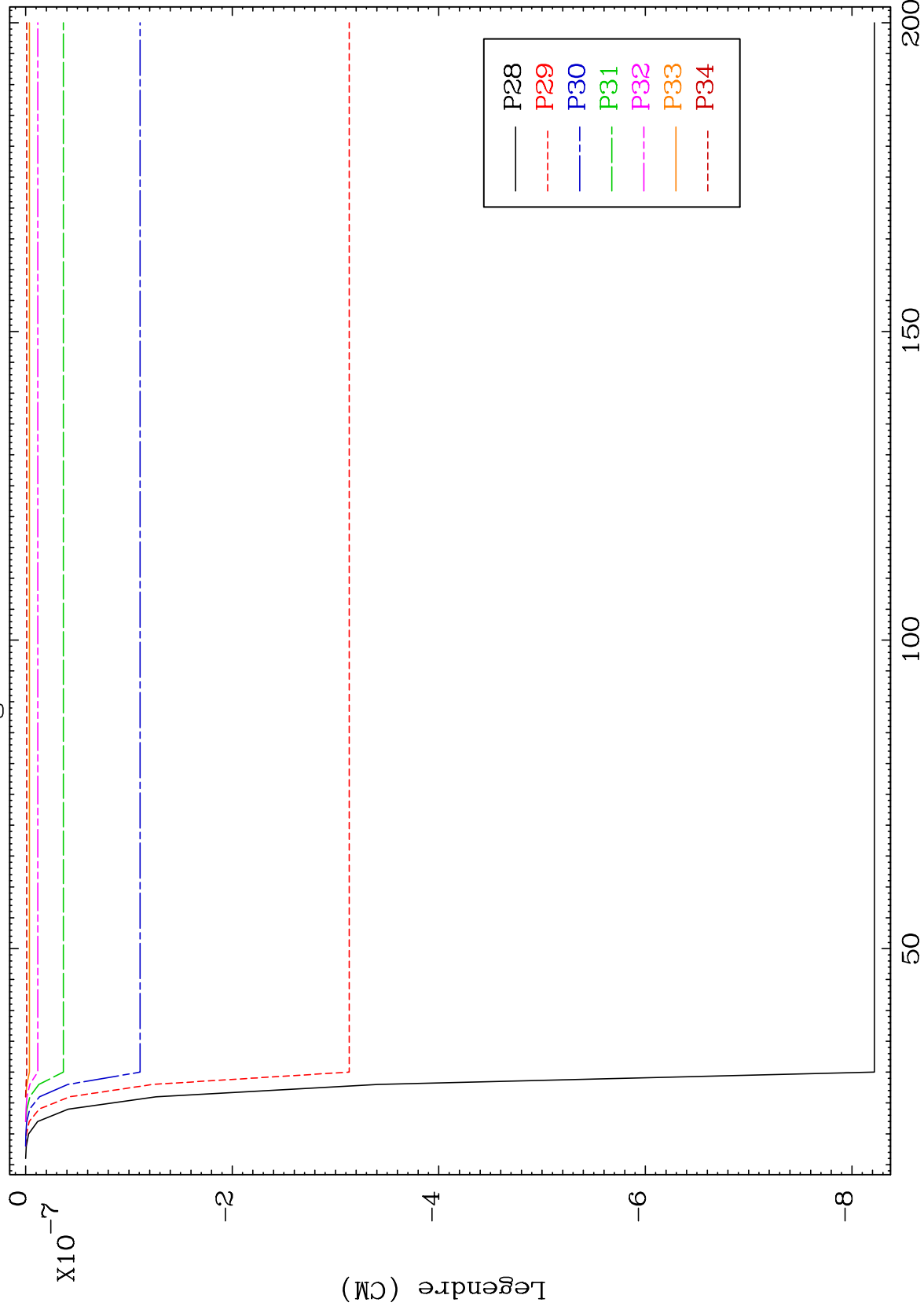




MAT 5307

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

53-I -121



58

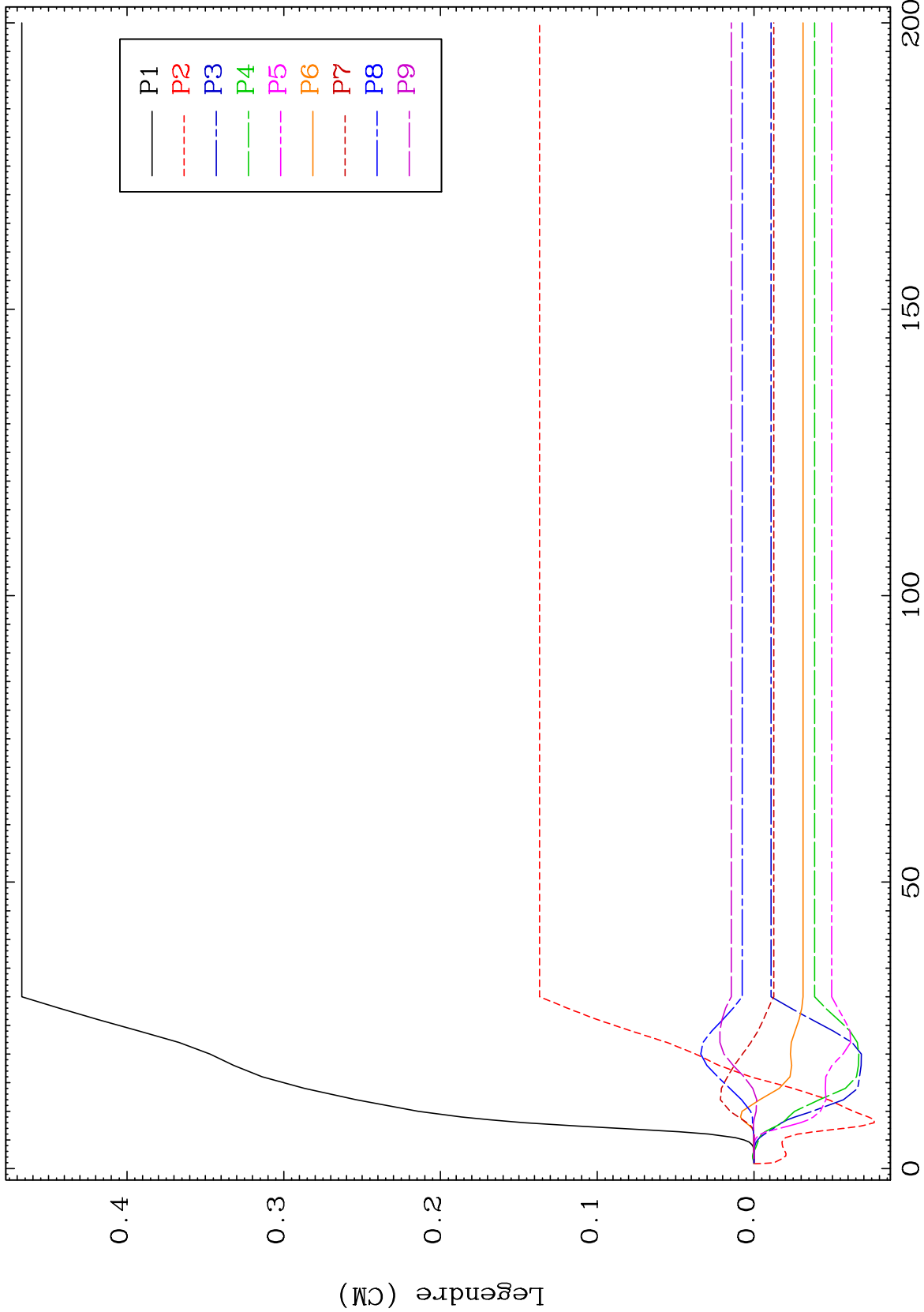
Incident Energy (MeV)

53-I -121

MAT 5307

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

53-I -121



59

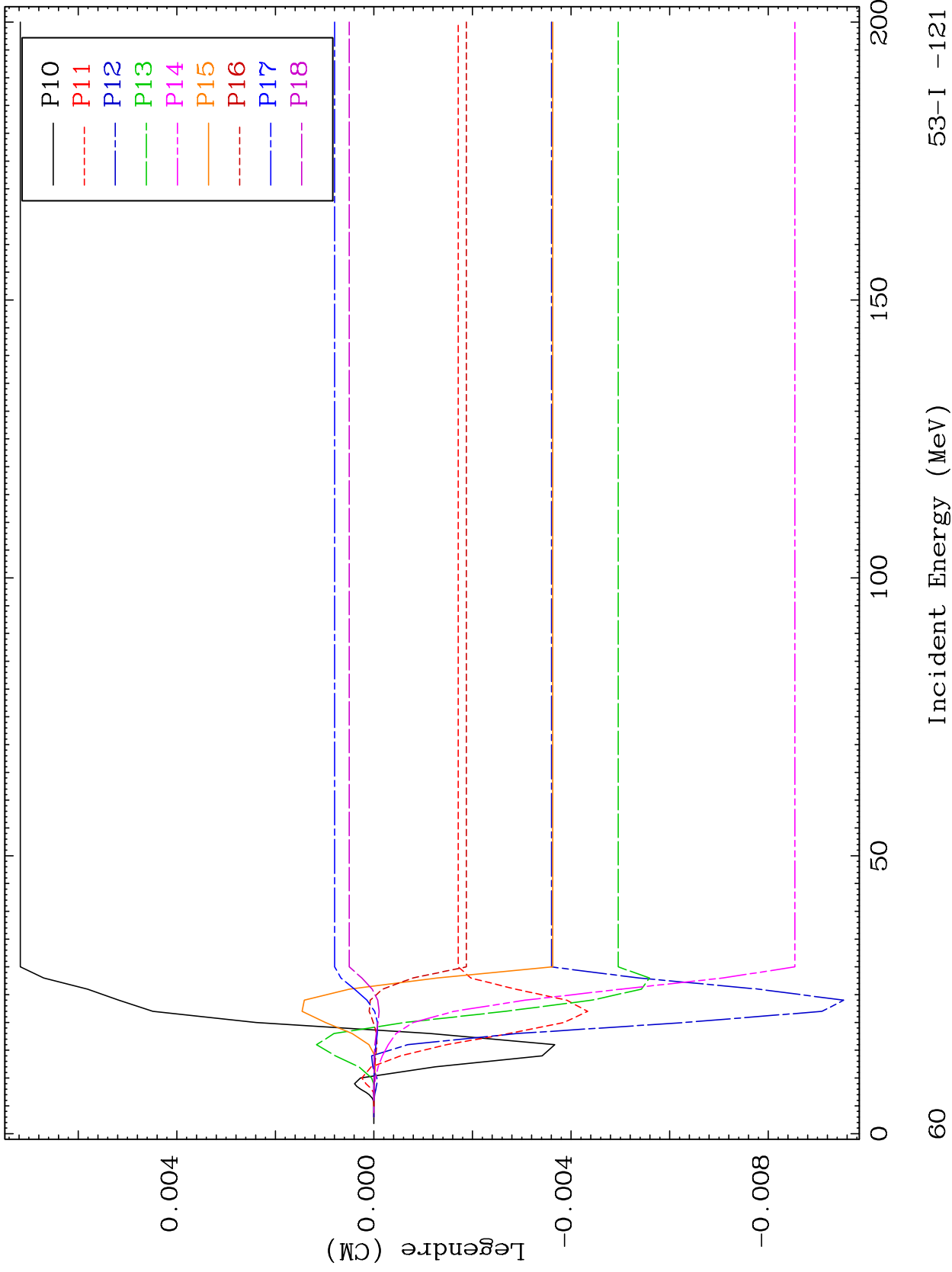
Incident Energy (MeV)

53-I -121

MAT 5307

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

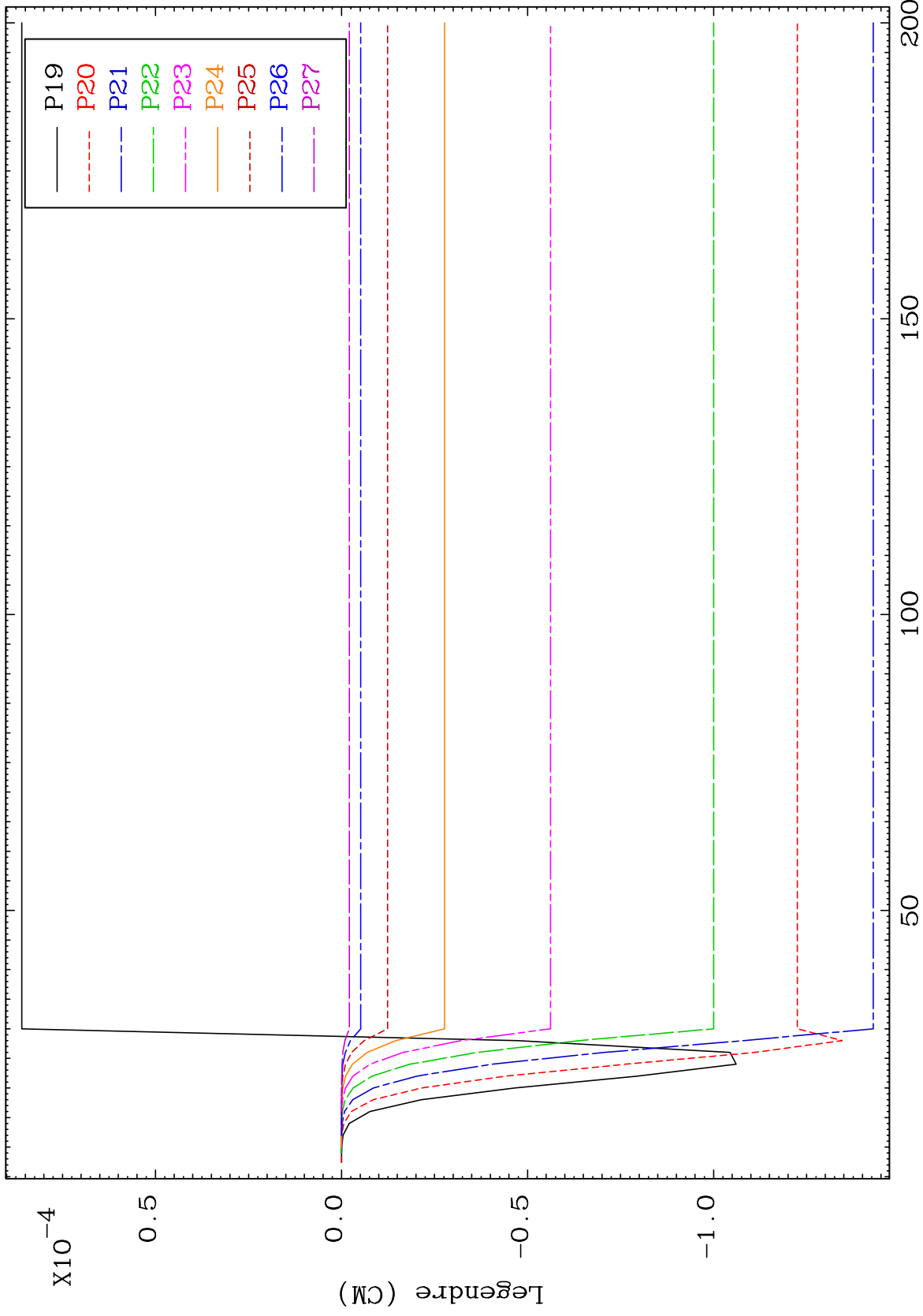
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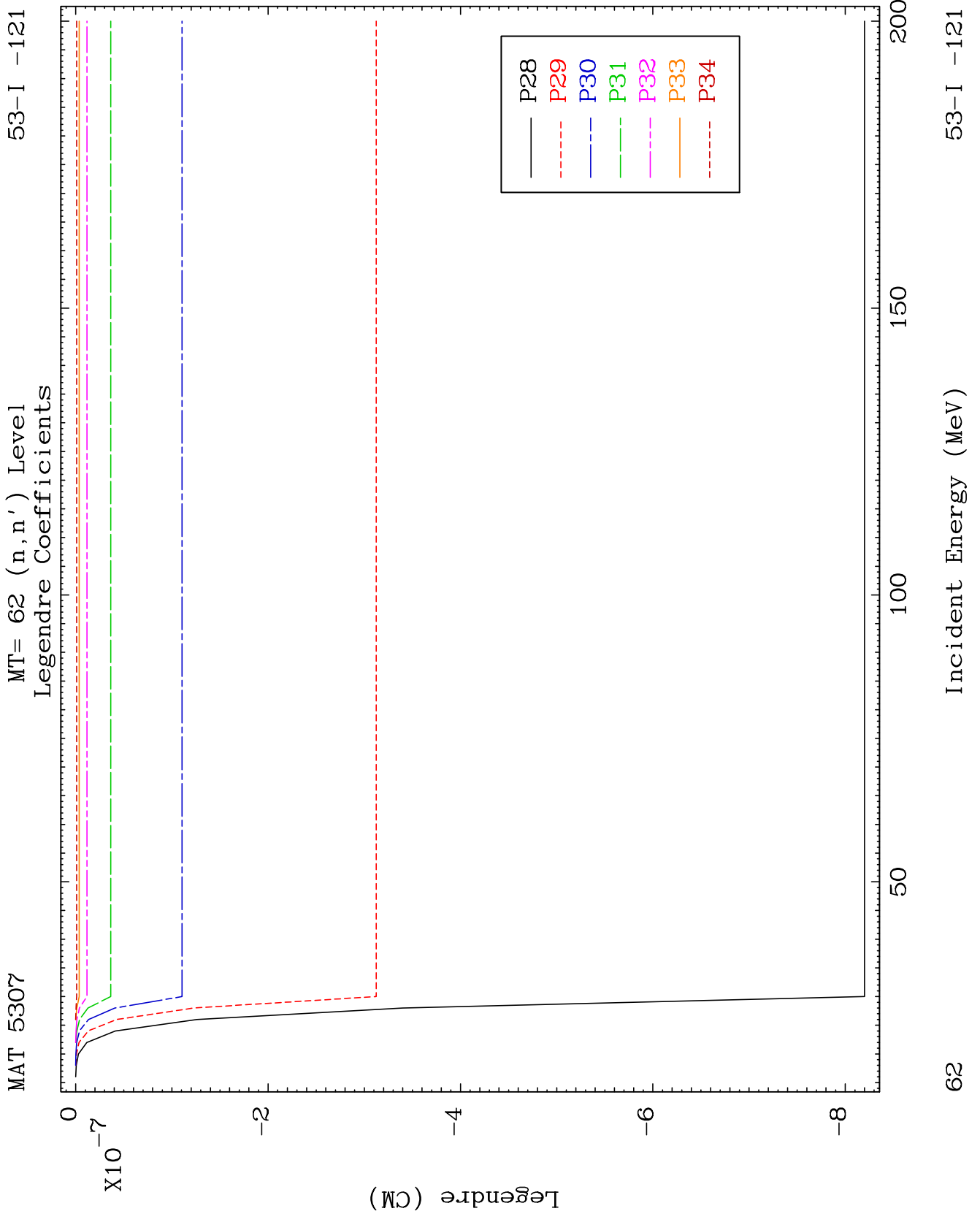


53-I -121

Incident Energy (MeV)

60

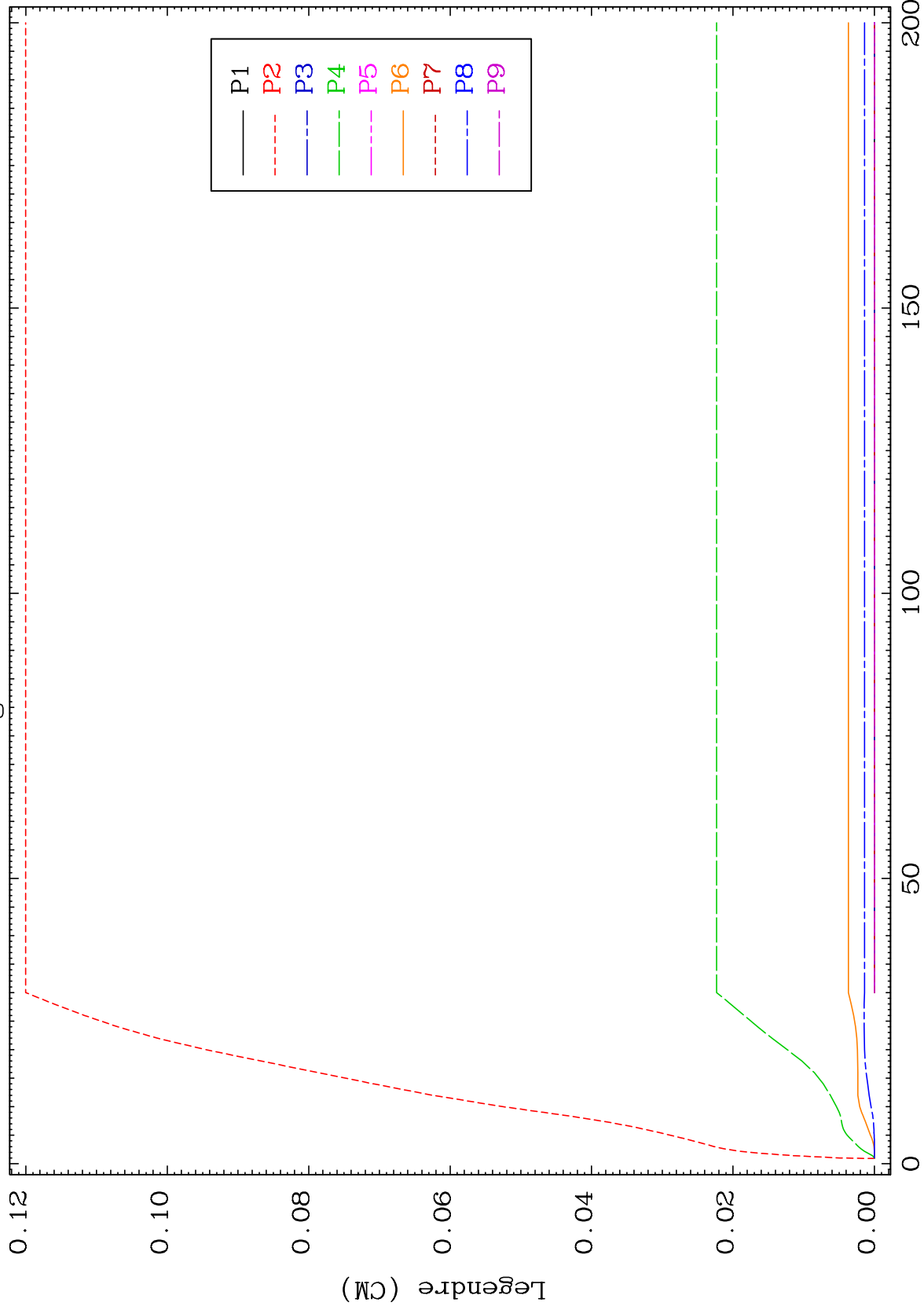




MAT 5307

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

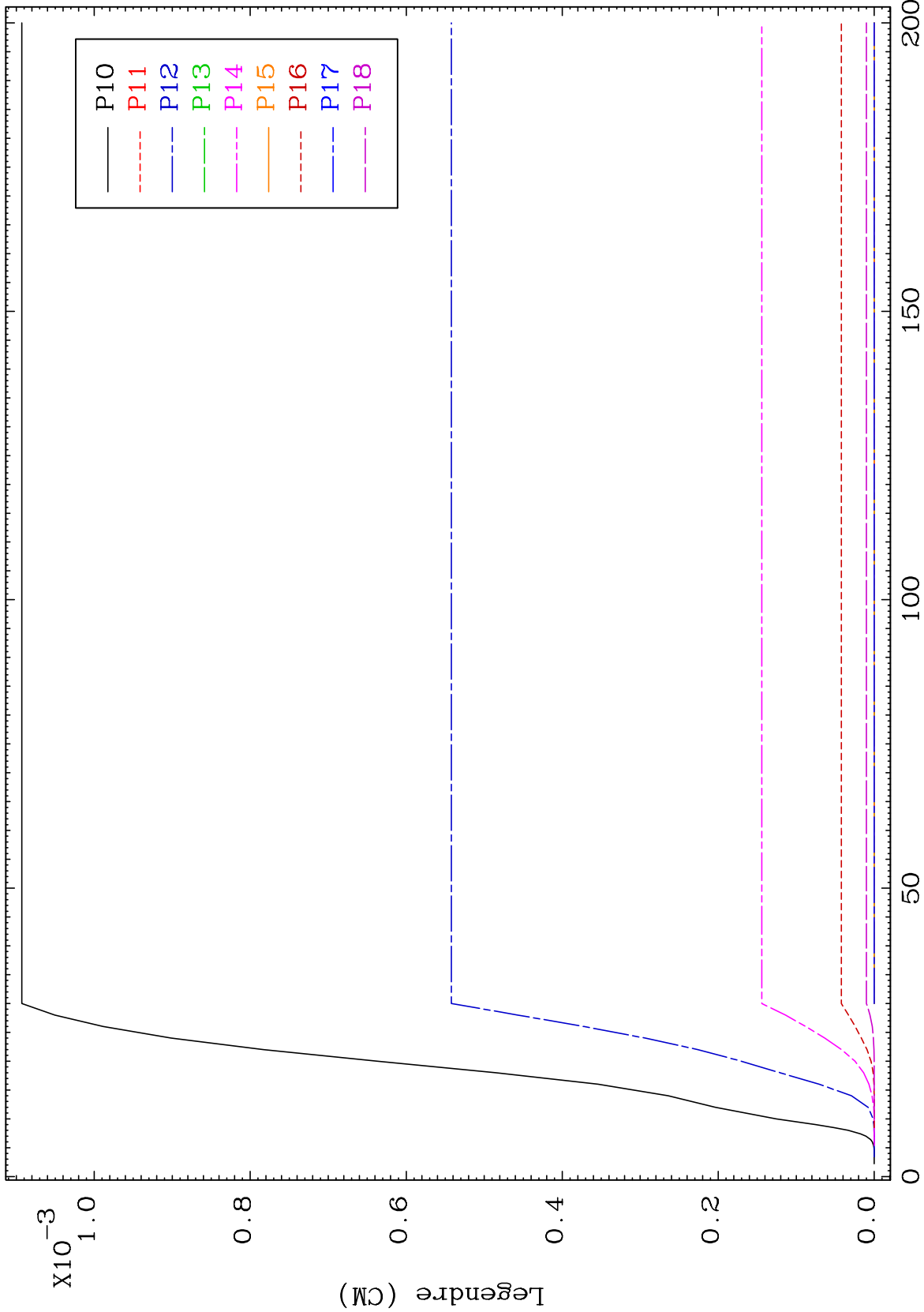
53-I -121



63

Incident Energy (MeV)

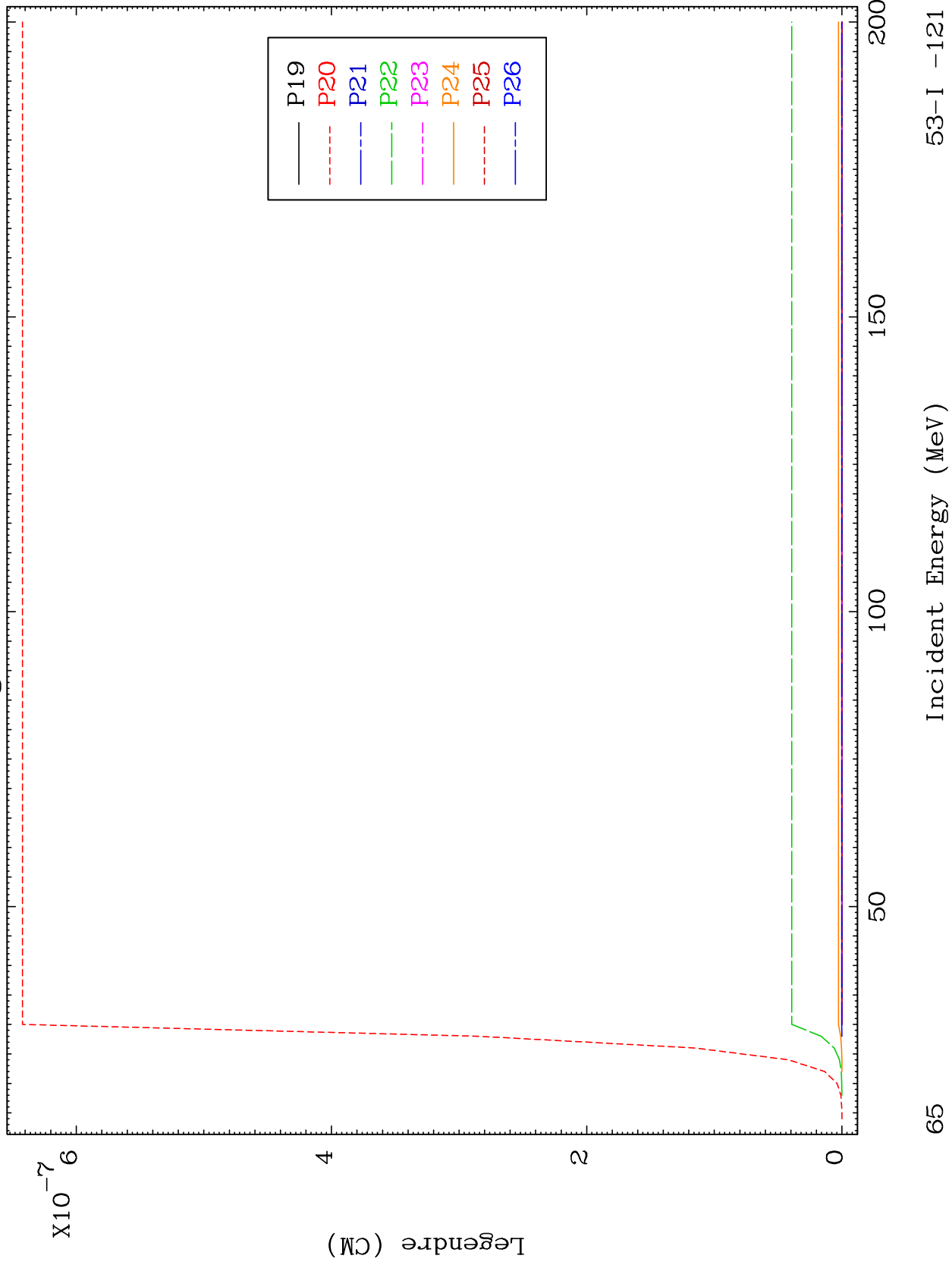
53-I -121



MAT 5307

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

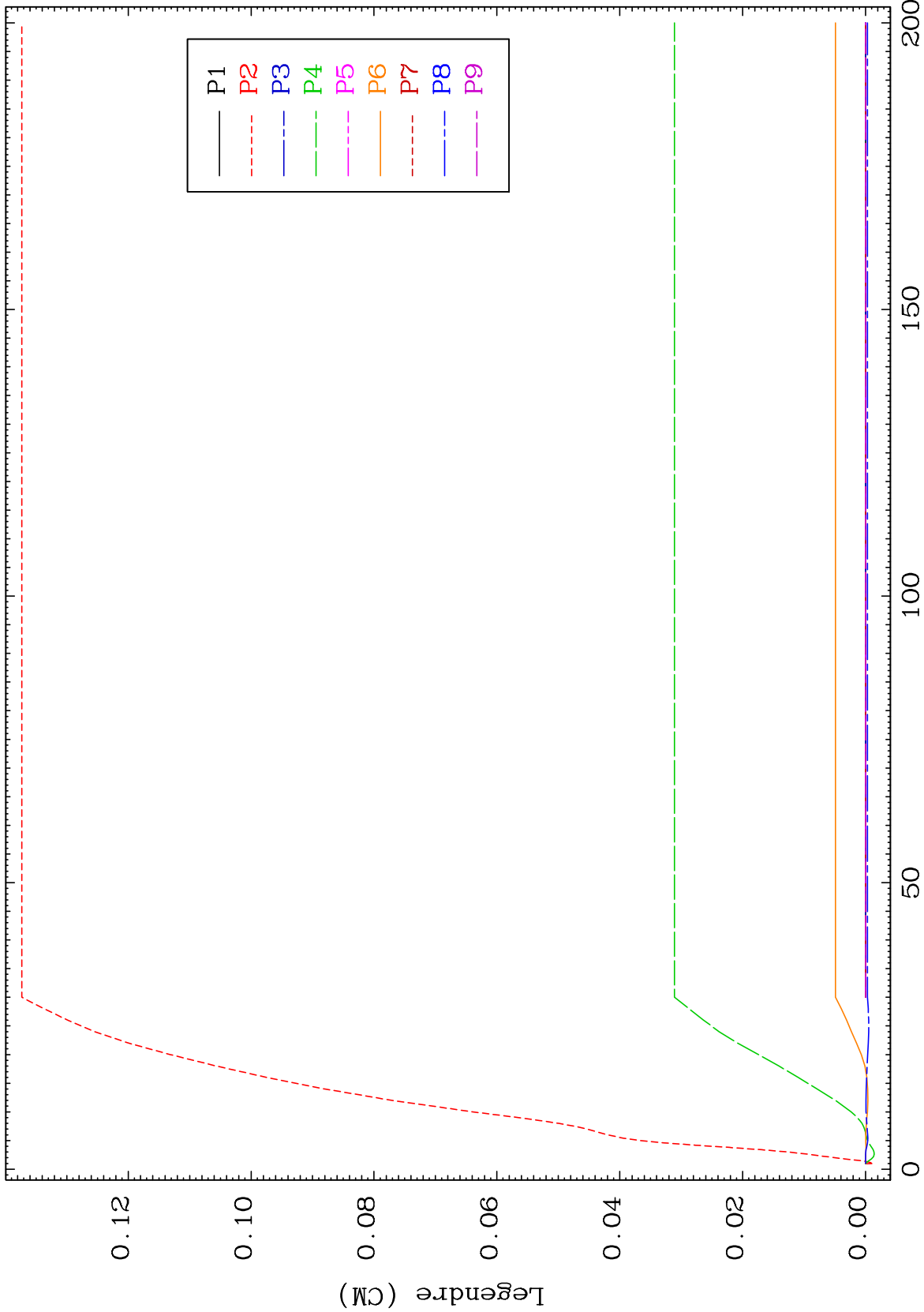
53-I -121



MAT 5307

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

53-I -121



66

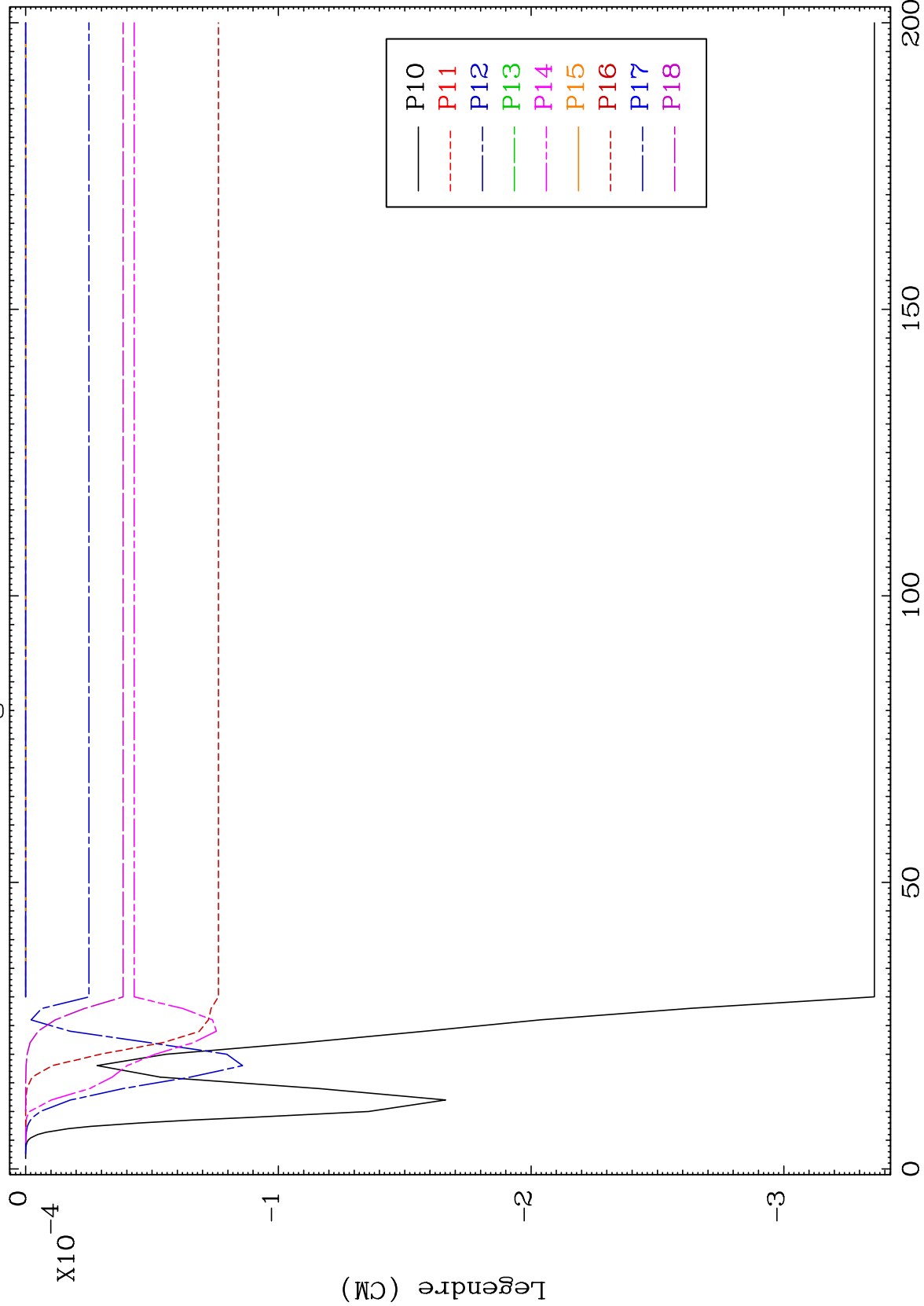
Incident Energy (MeV)

53-I -121

MAT 5307

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

53-I -121



67

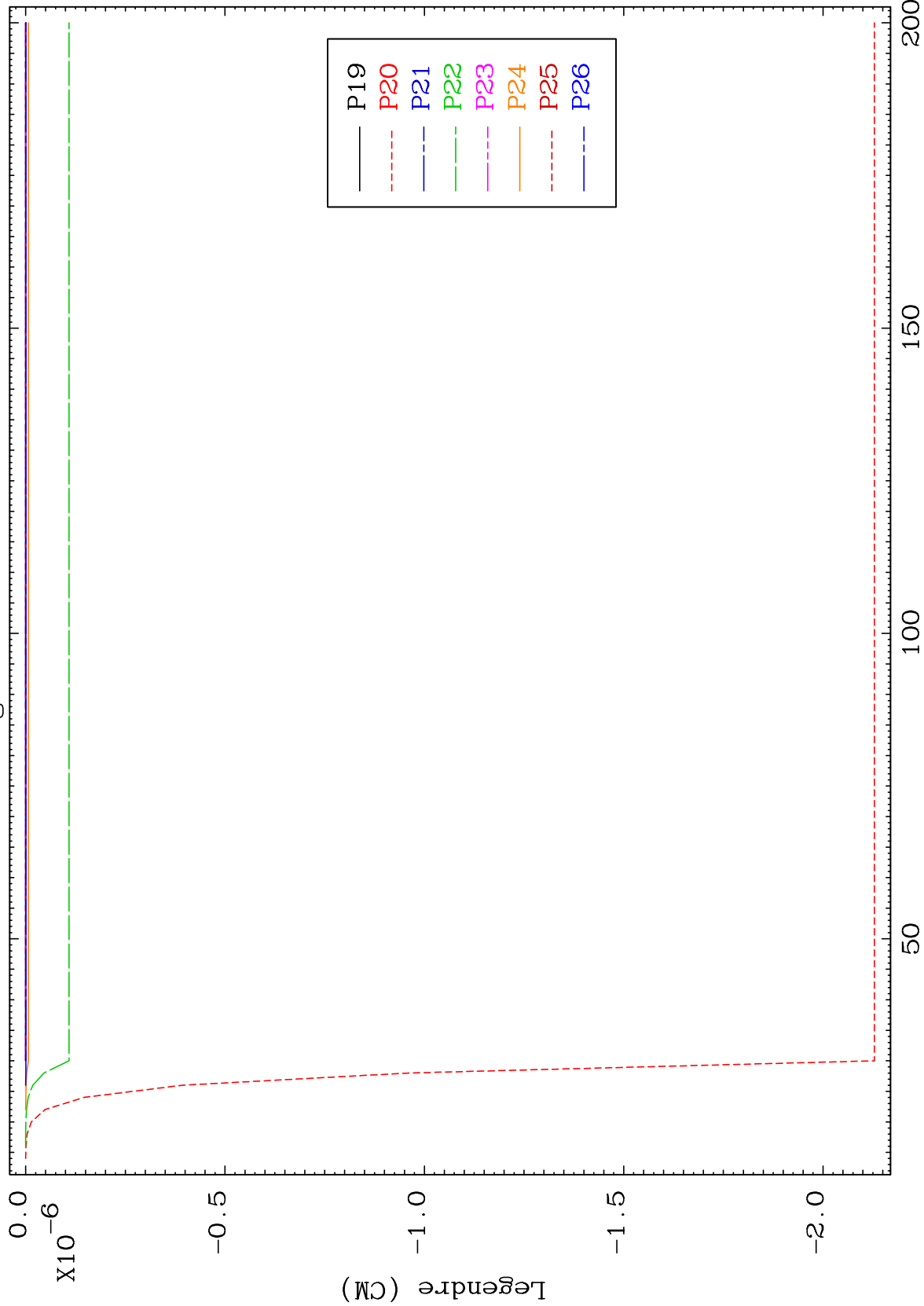
Incident Energy (MeV)

53-I -121

MAT 5307

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

53-I -121



68

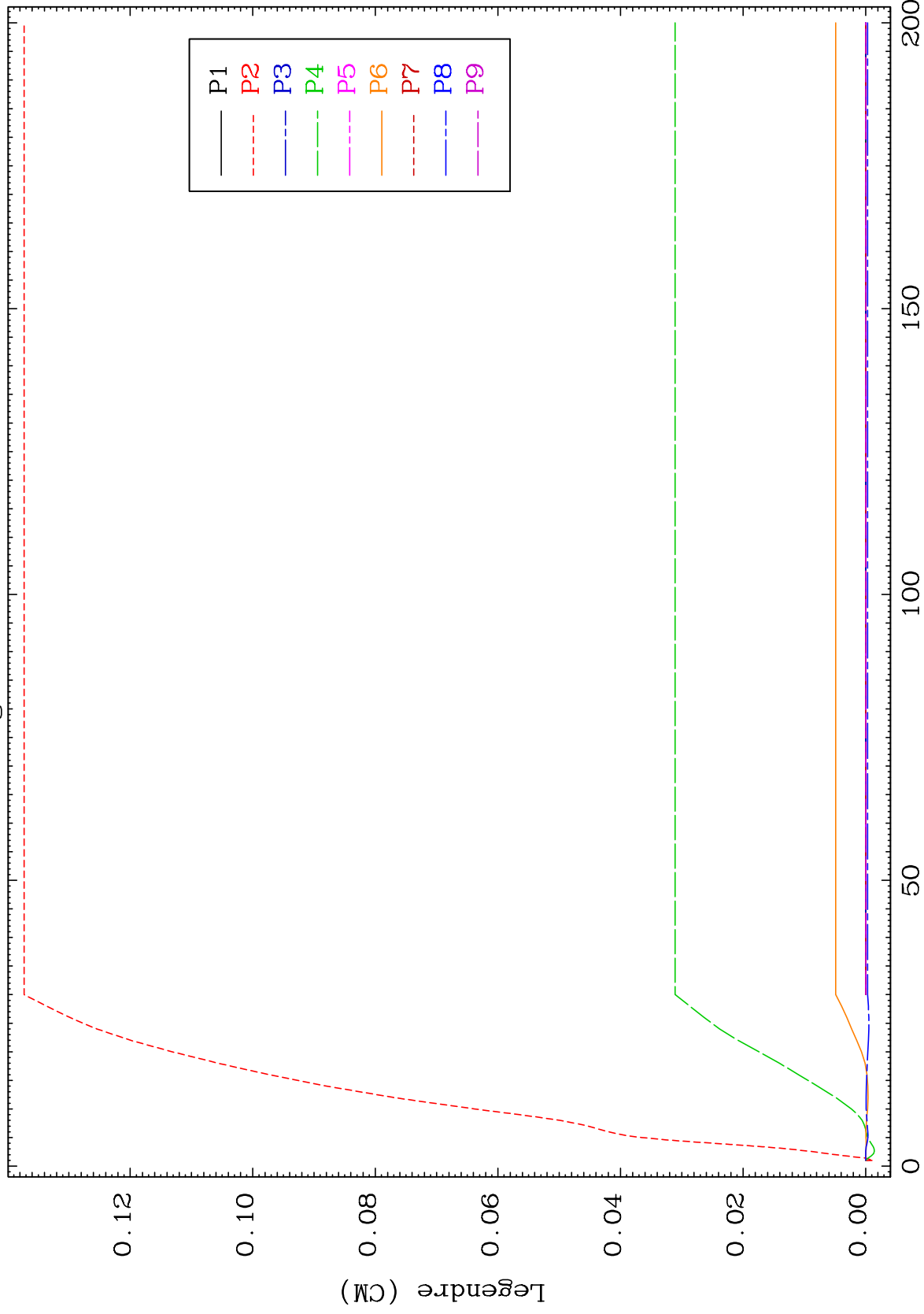
Incident Energy (MeV)

53-I -121

MAT 5307

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

53-I -121



69

Incident Energy (MeV)

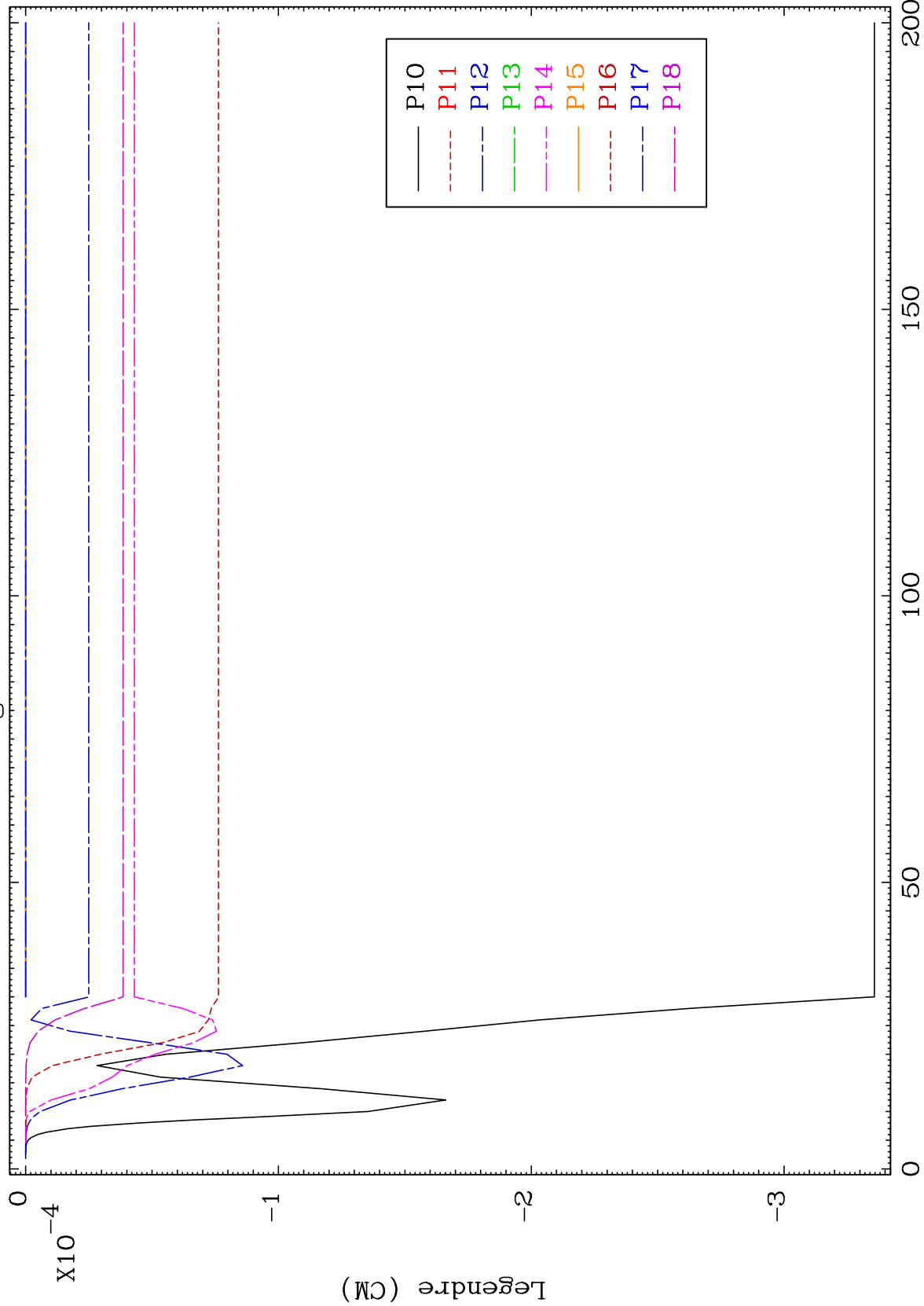
53-I -121

MAT 5307

MT= 65 (n,n') Level

53-I -121

Legendre Coefficients



70

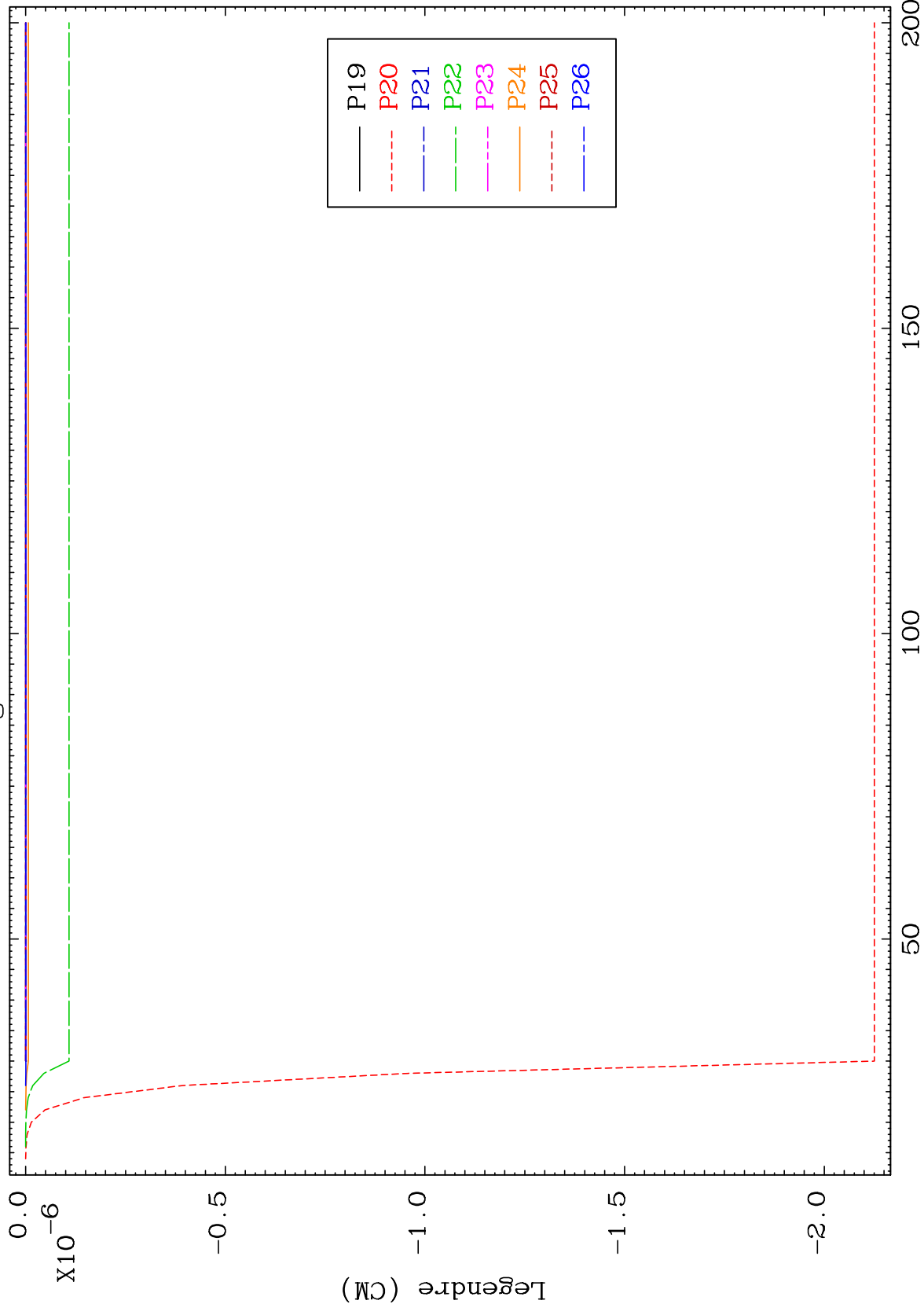
Incident Energy (MeV)

53-I -121

MAT 5307

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

53-I -121



71

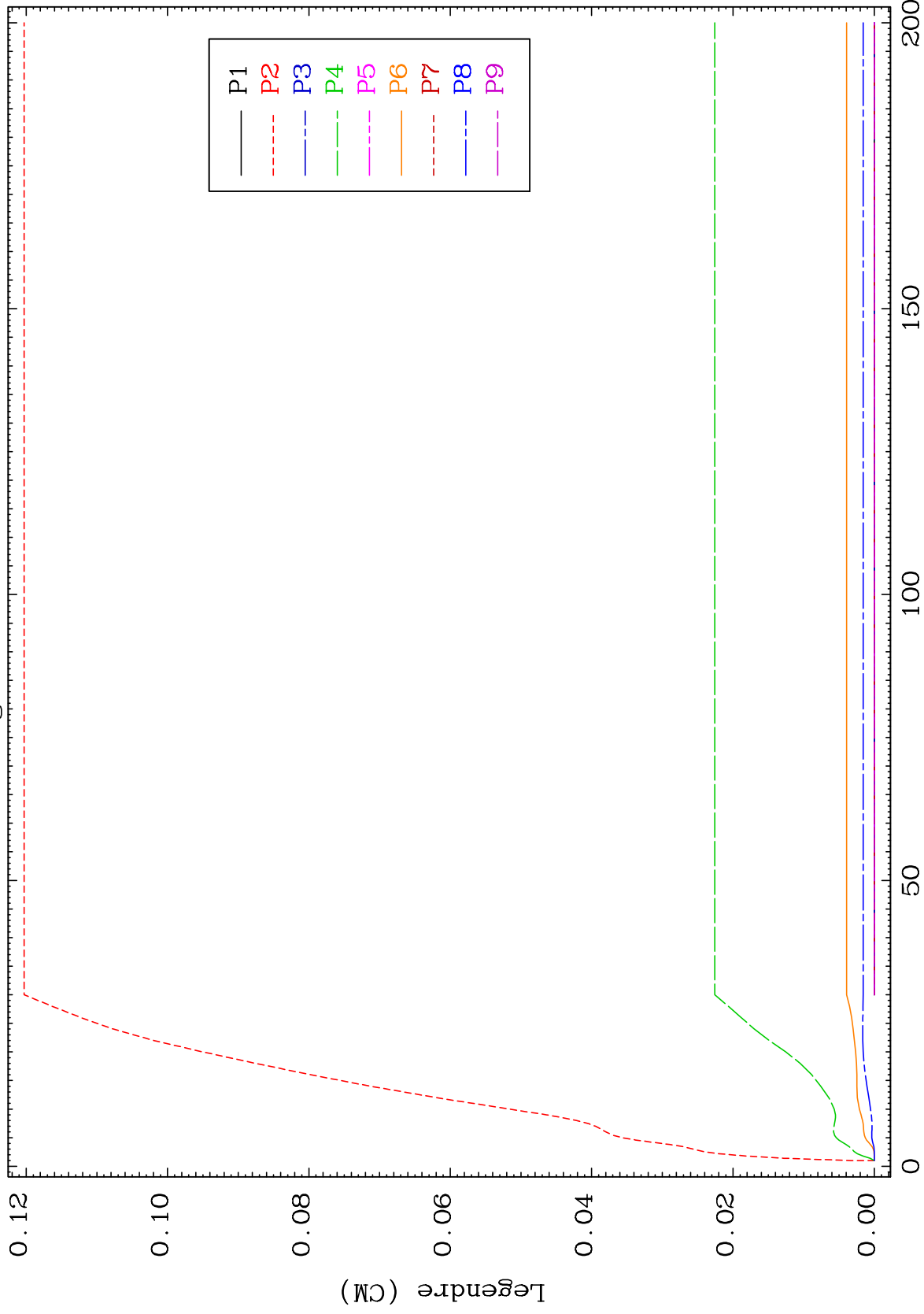
Incident Energy (MeV)

53-I -121

MAT 5307

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

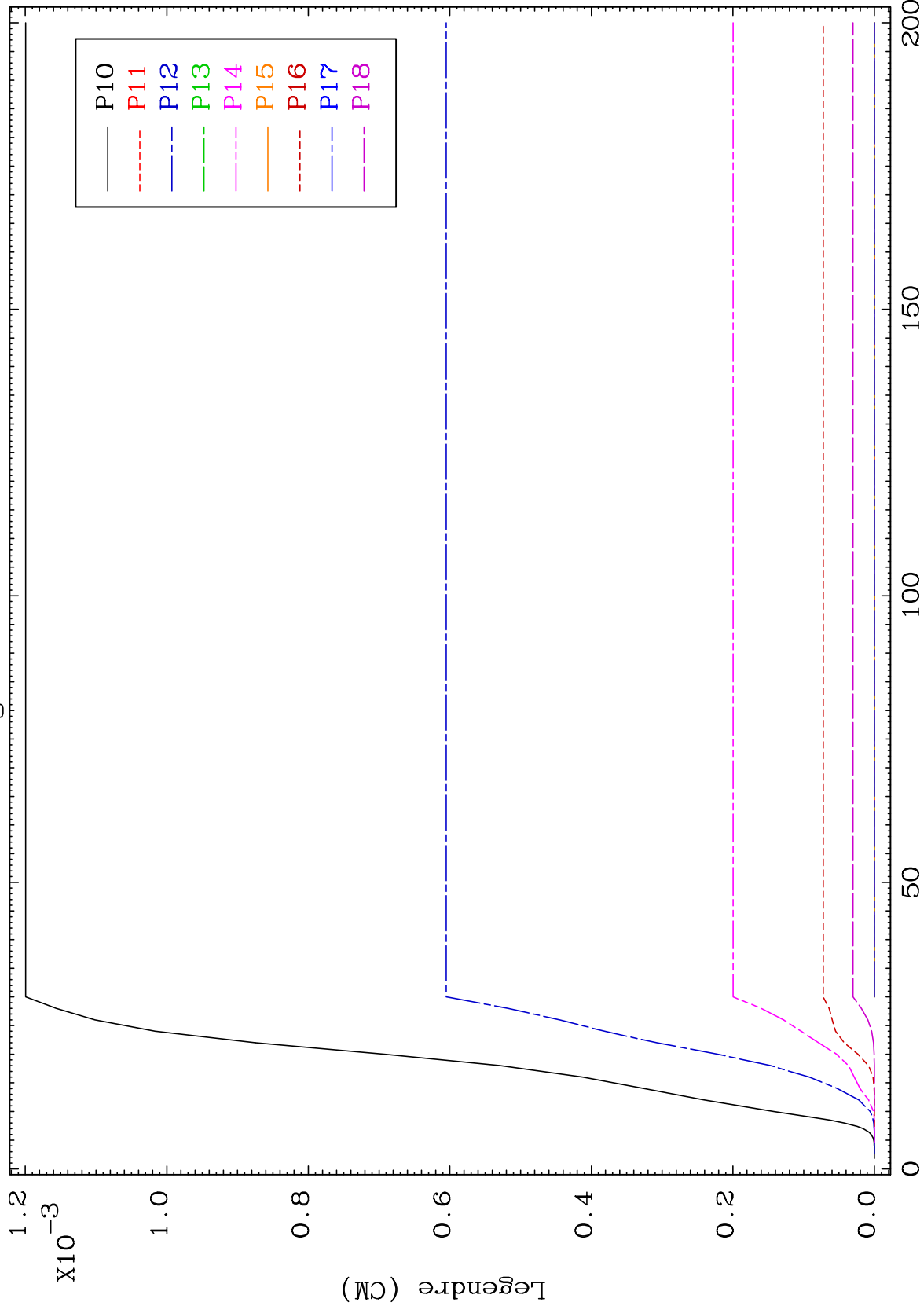
53-I -121



72

Incident Energy (MeV)

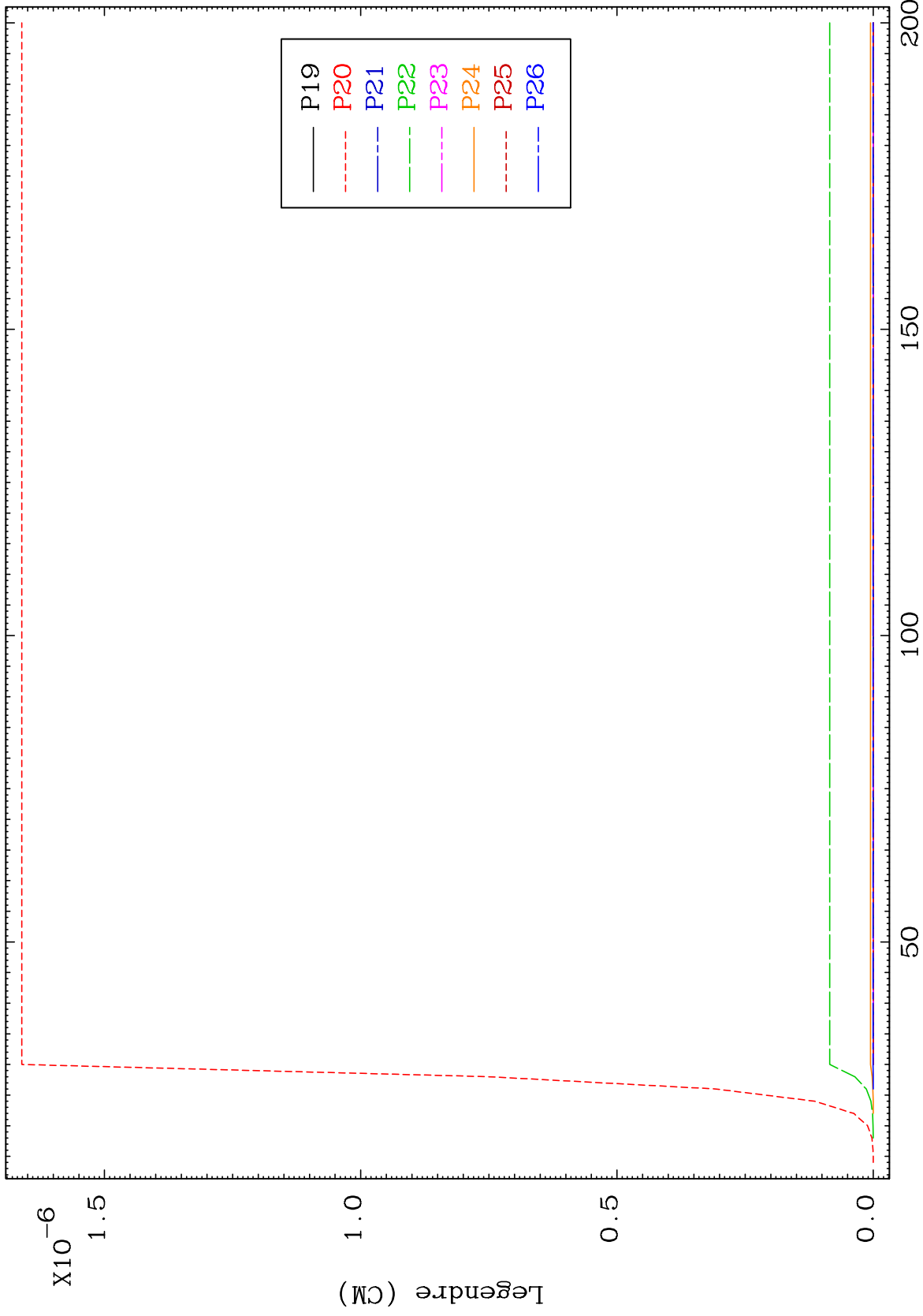
53-I -121



MAT 5307

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

53-I -121



74

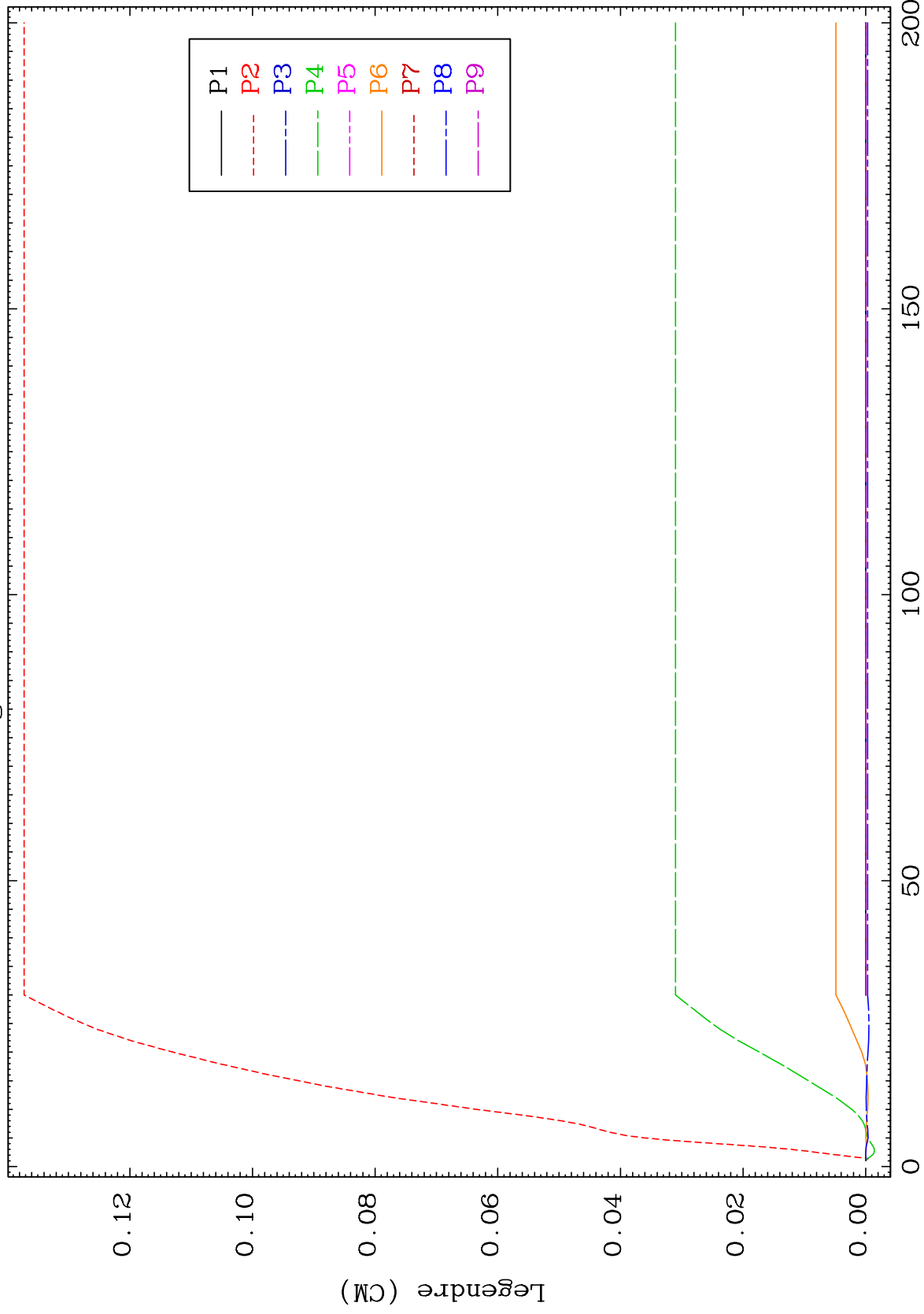
Incident Energy (MeV)

53-I -121

MAT 5307

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

53-I -121



75

Incident Energy (MeV)

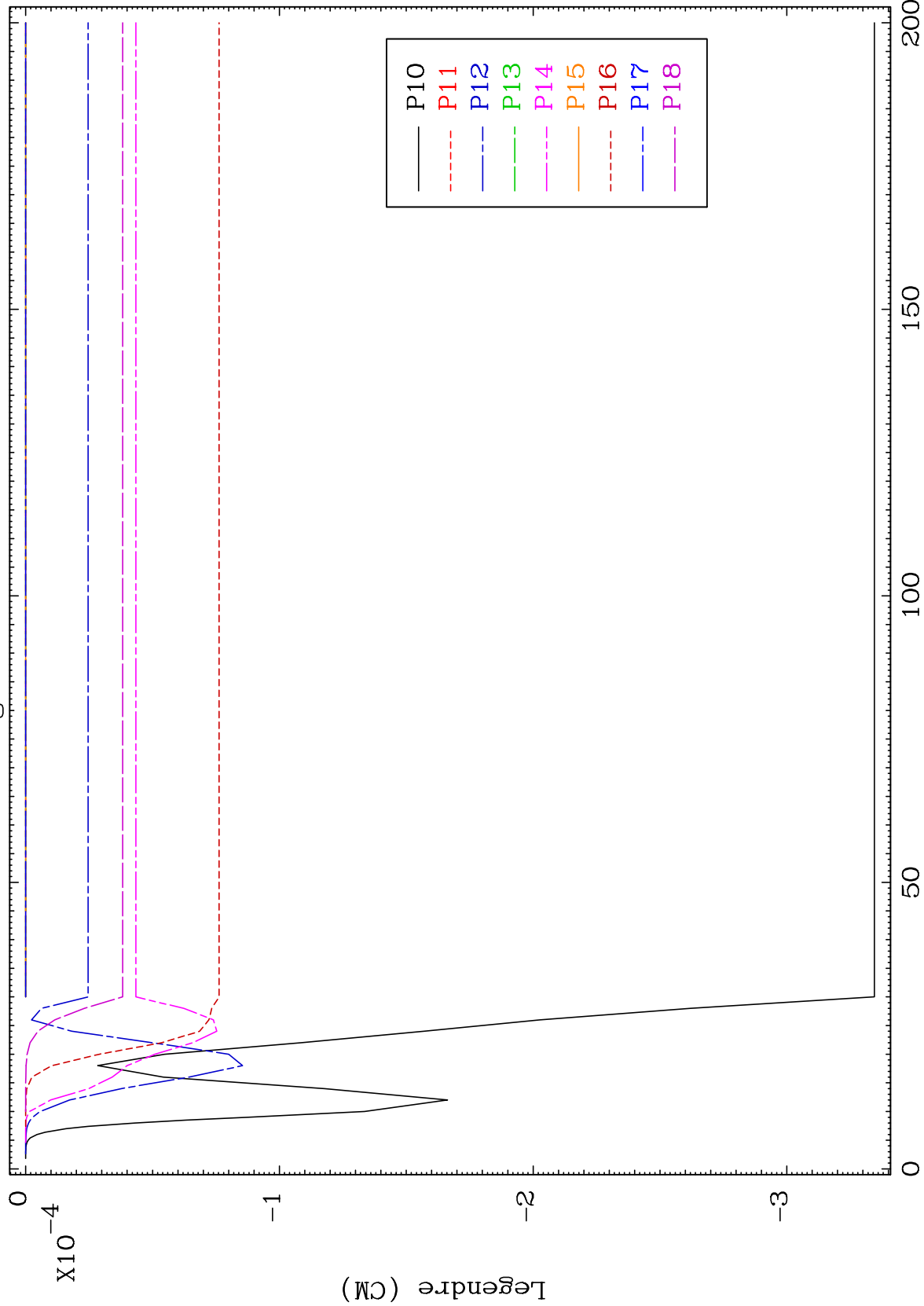
53-I -121

MAT 5307

MT= 67 (n,n') Level

53-I -121

Legendre Coefficients



76

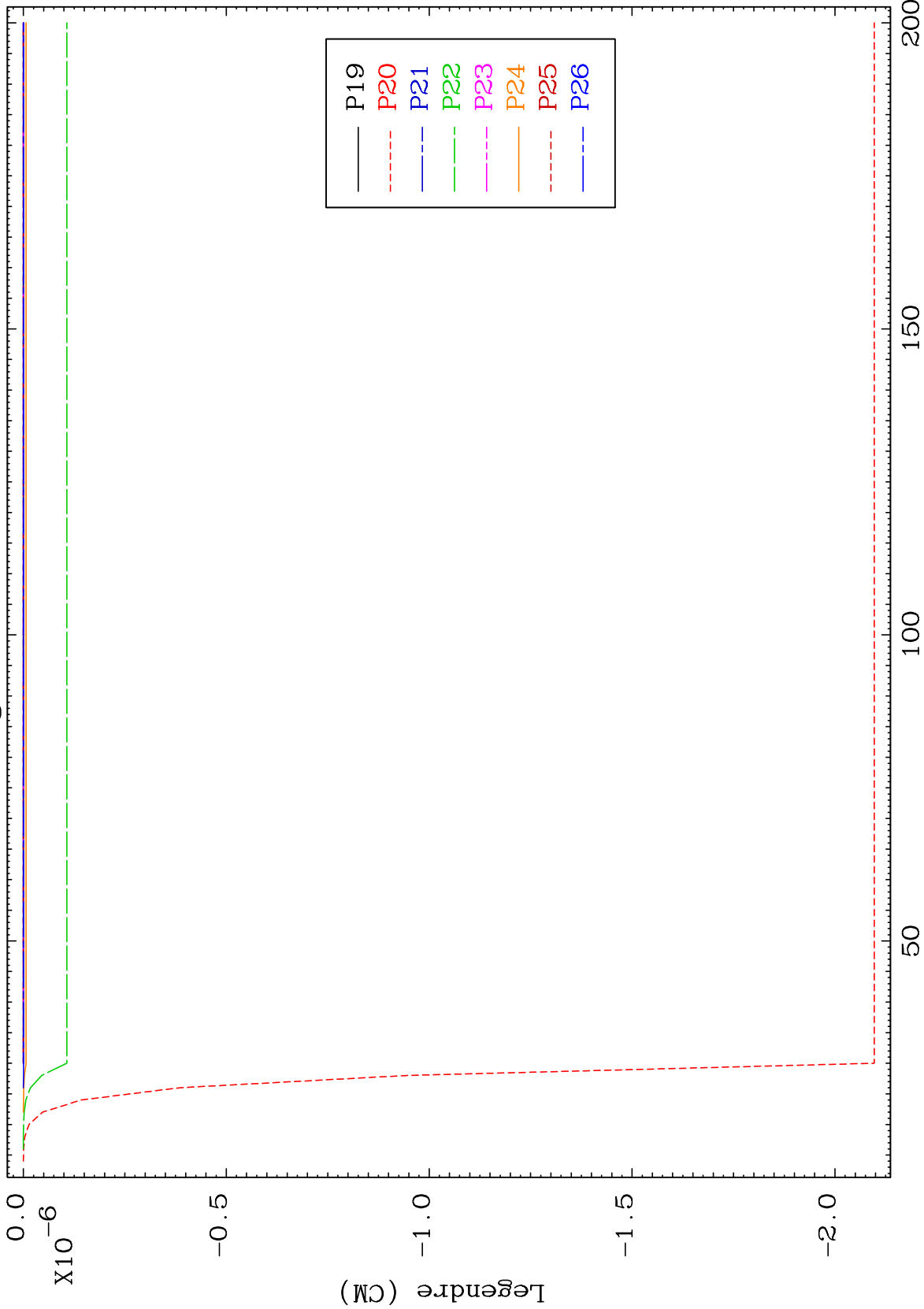
Incident Energy (MeV)

53-I -121

MAT 5307

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

53-I -121



77

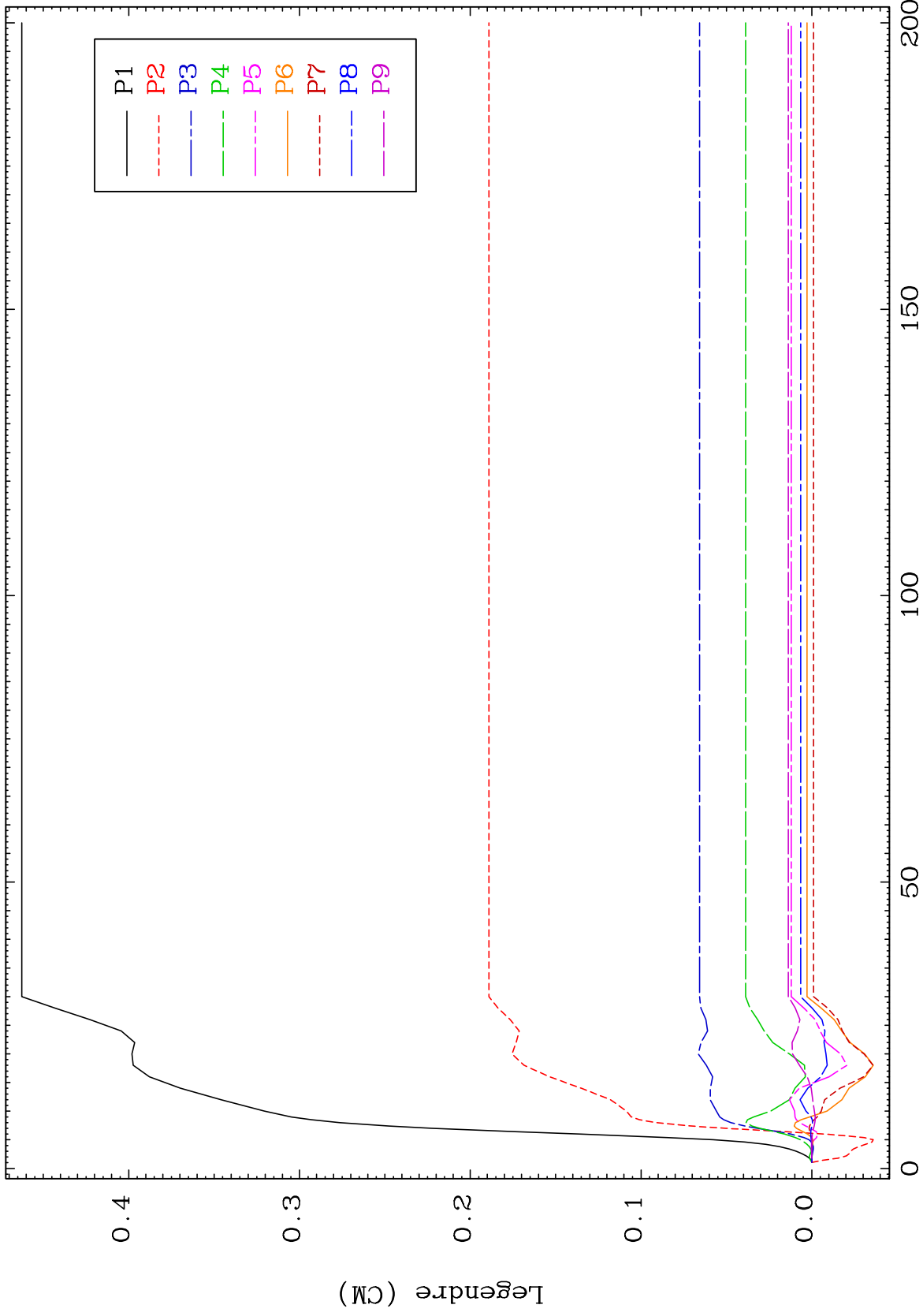
Incident Energy (MeV)

53-I -121

MAT 5307

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

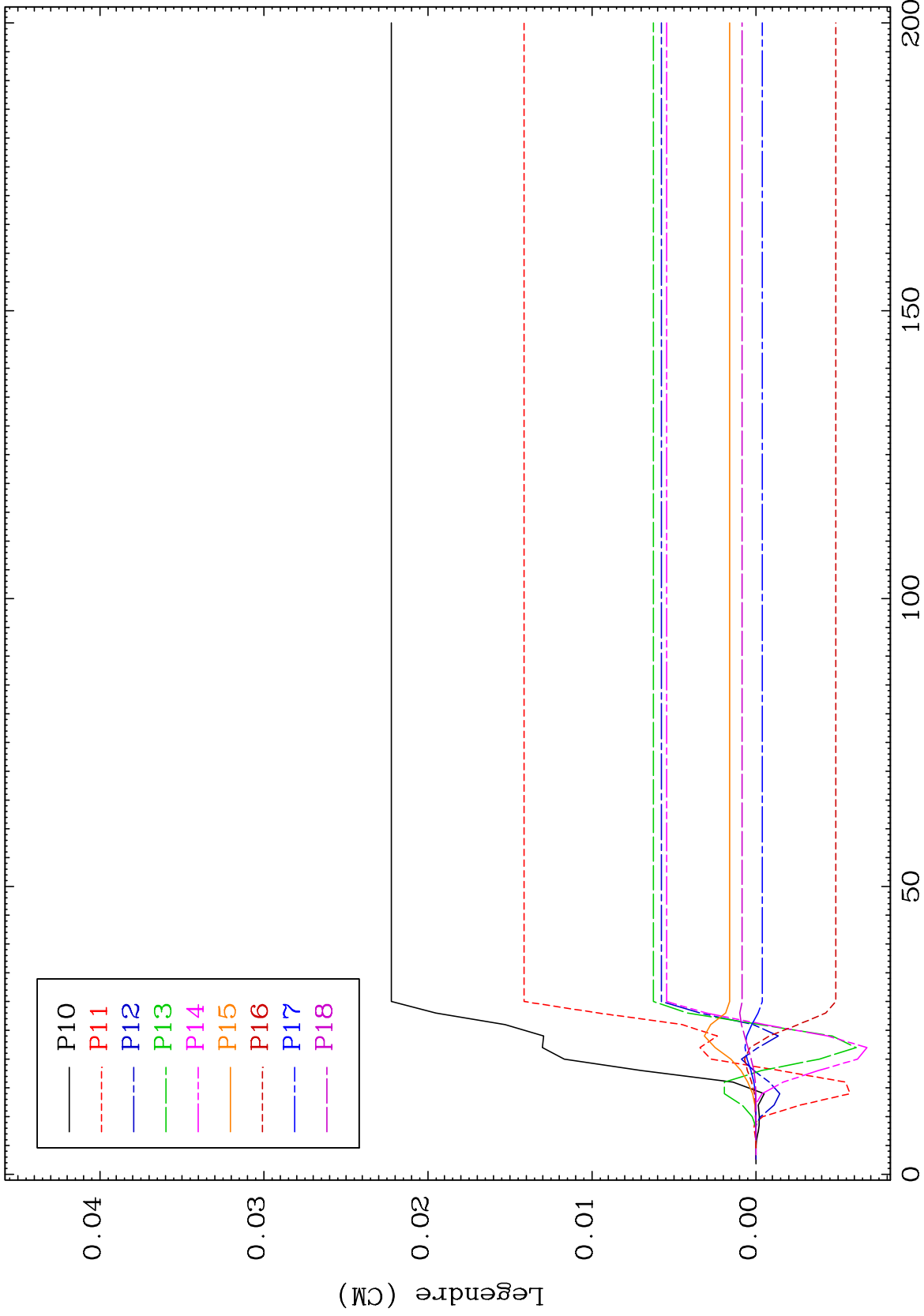
53-I -121

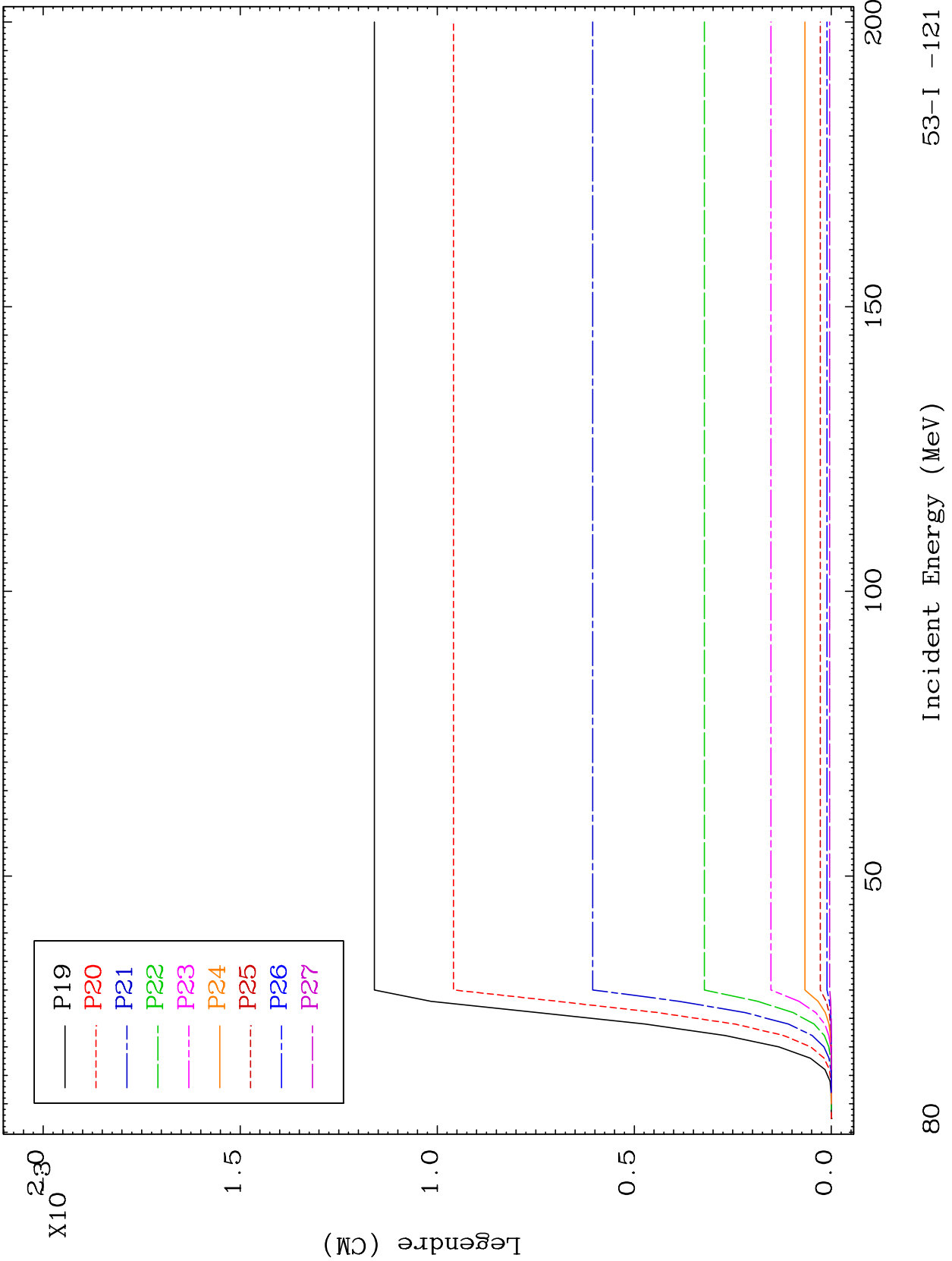


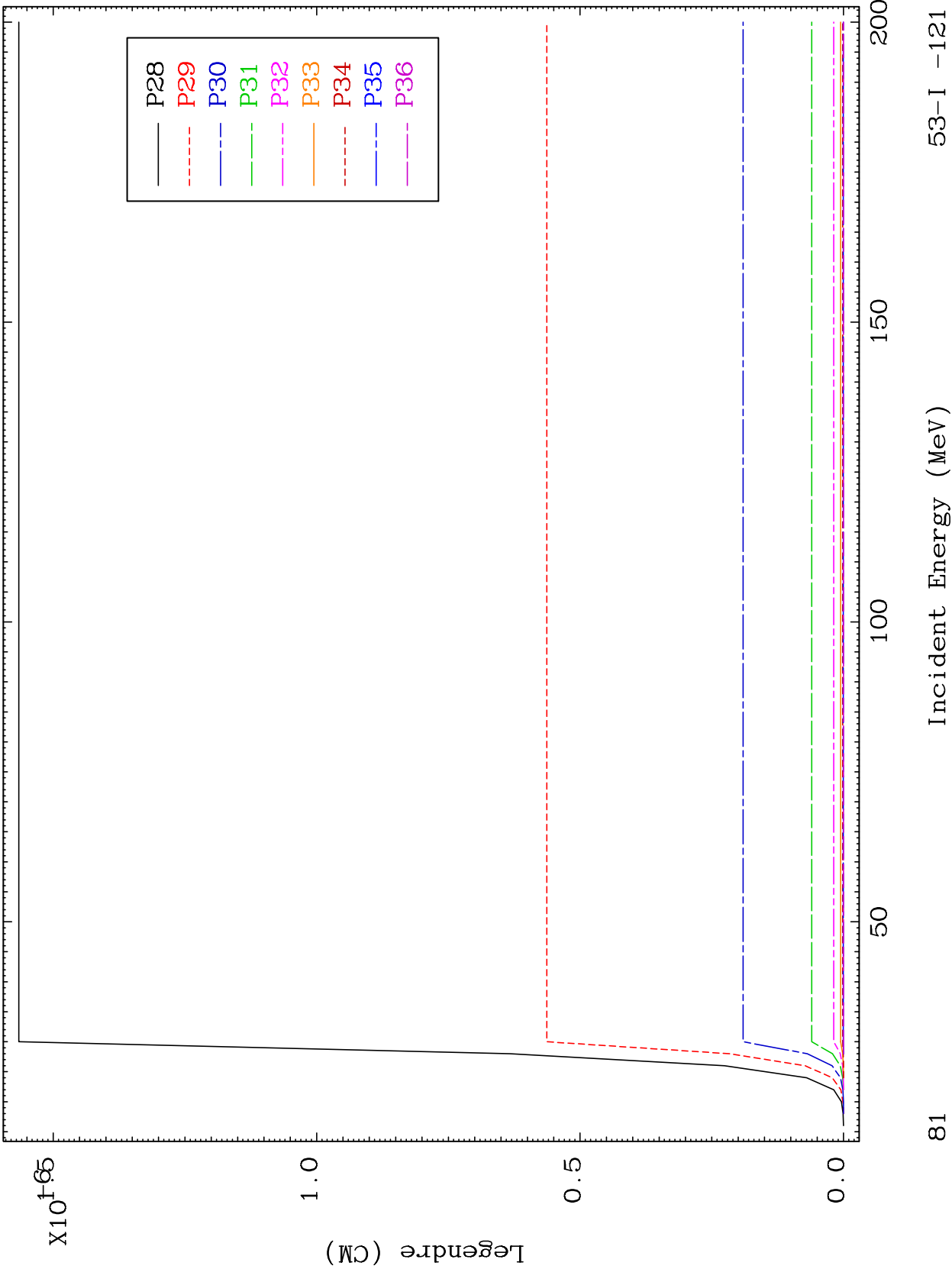
78

Incident Energy (MeV)

53-I -121



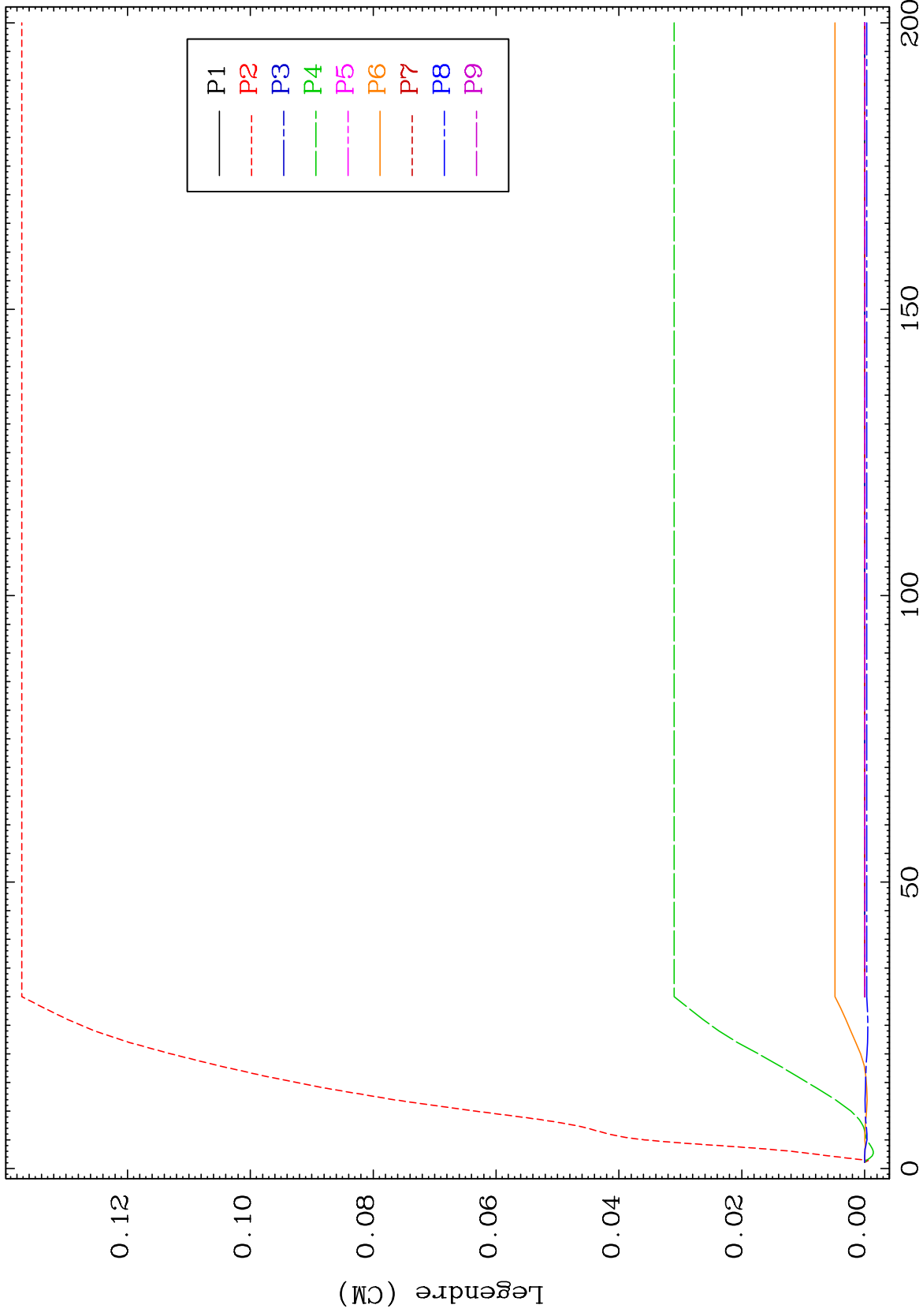




MAT 5307

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

53-I -121



82

Incident Energy (MeV)

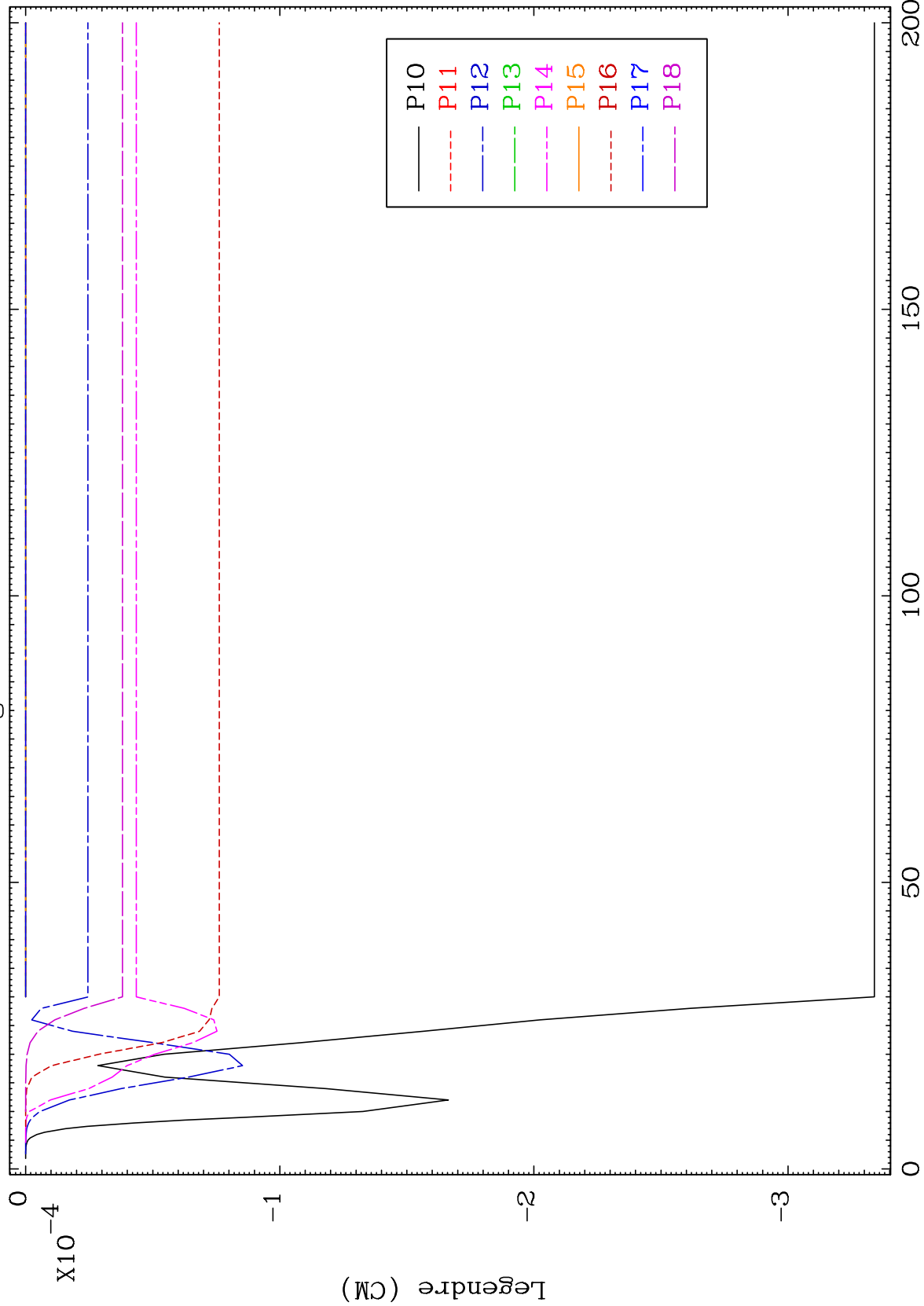
53-I -121

MAT 5307

MT= 69 (n,n') Level

53-I -121

Legendre Coefficients



83

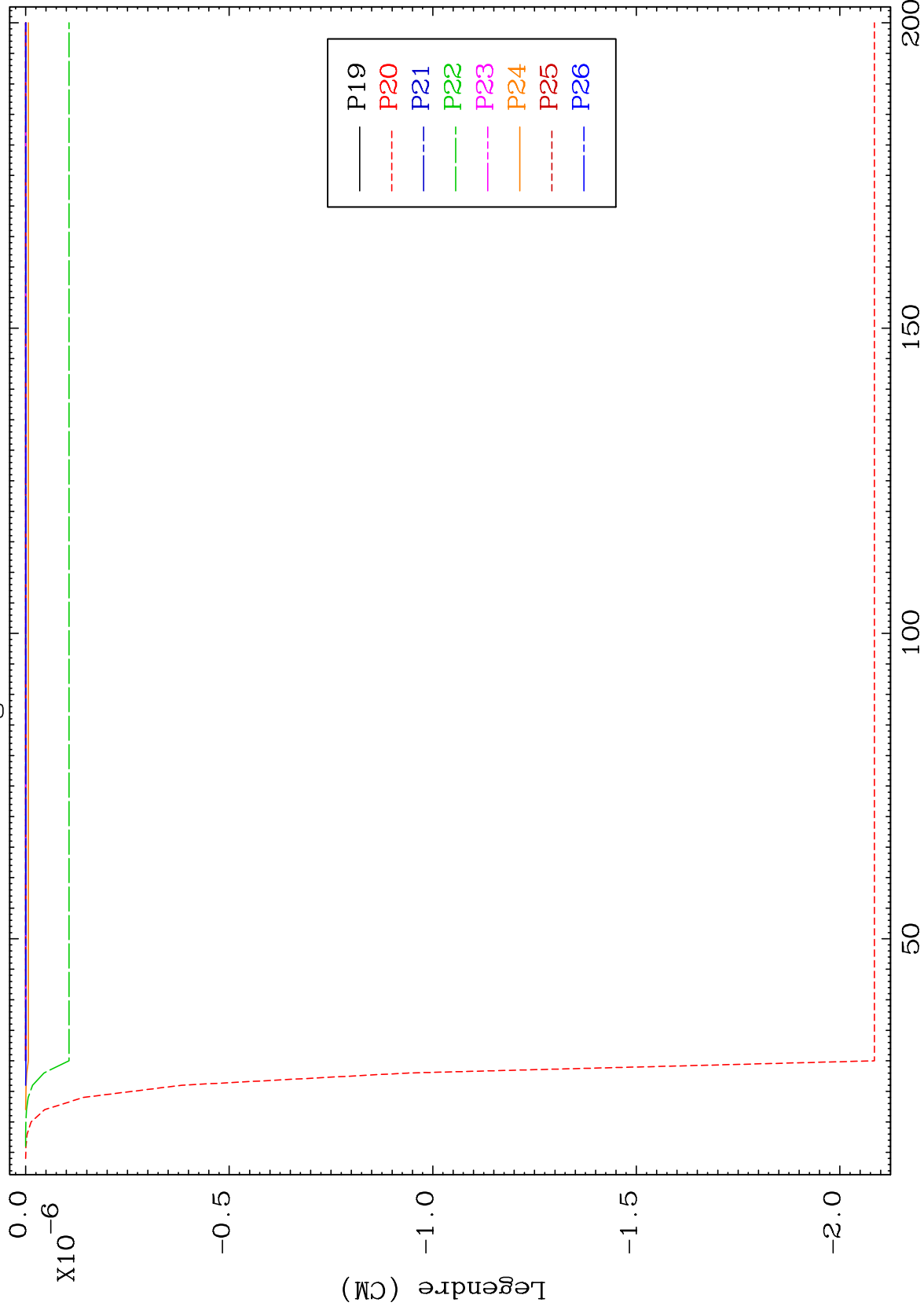
Incident Energy (MeV)

53-I -121

MAT 5307

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

53-I -121



84

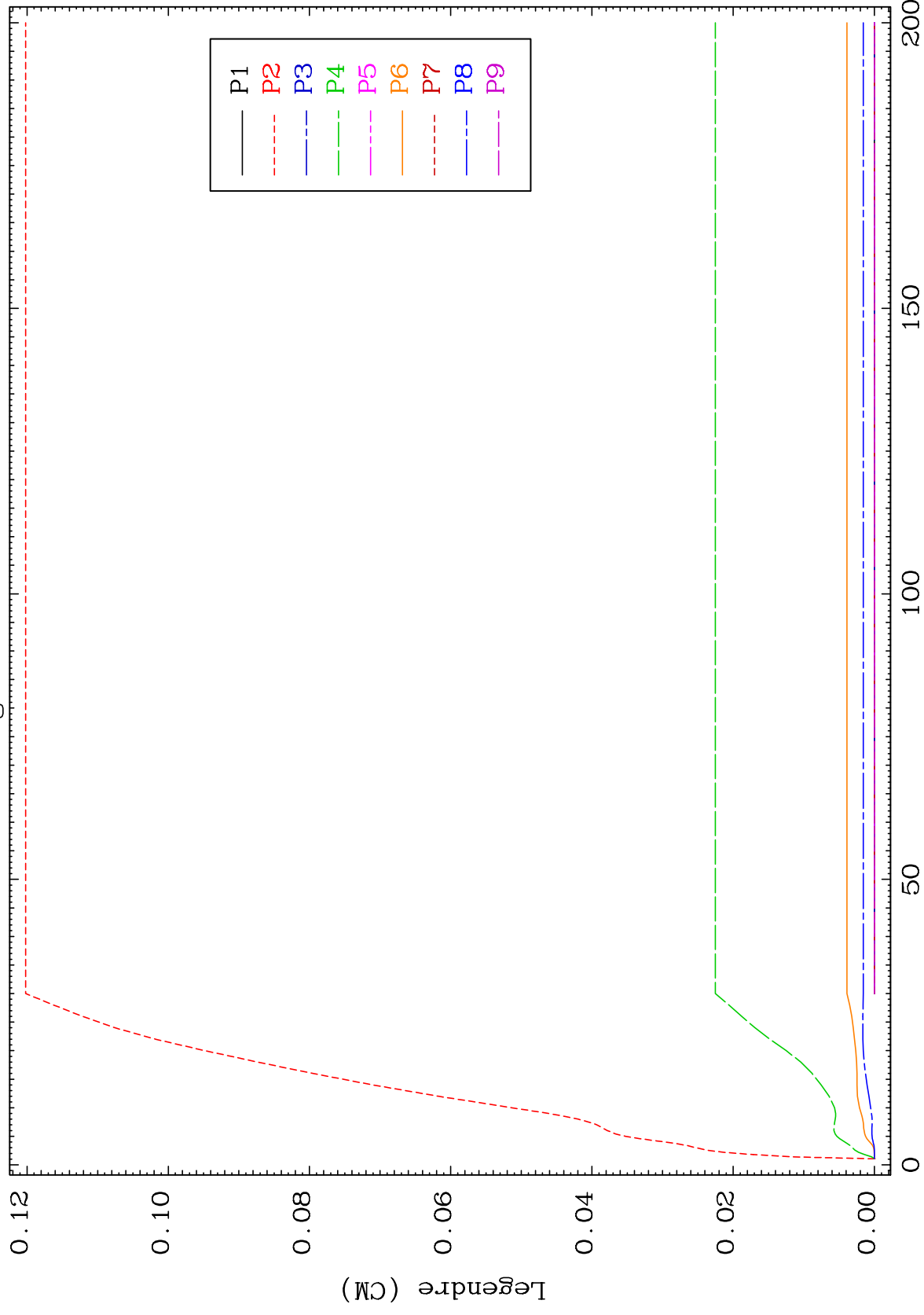
Incident Energy (MeV)

53-I -121

MAT 5307

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

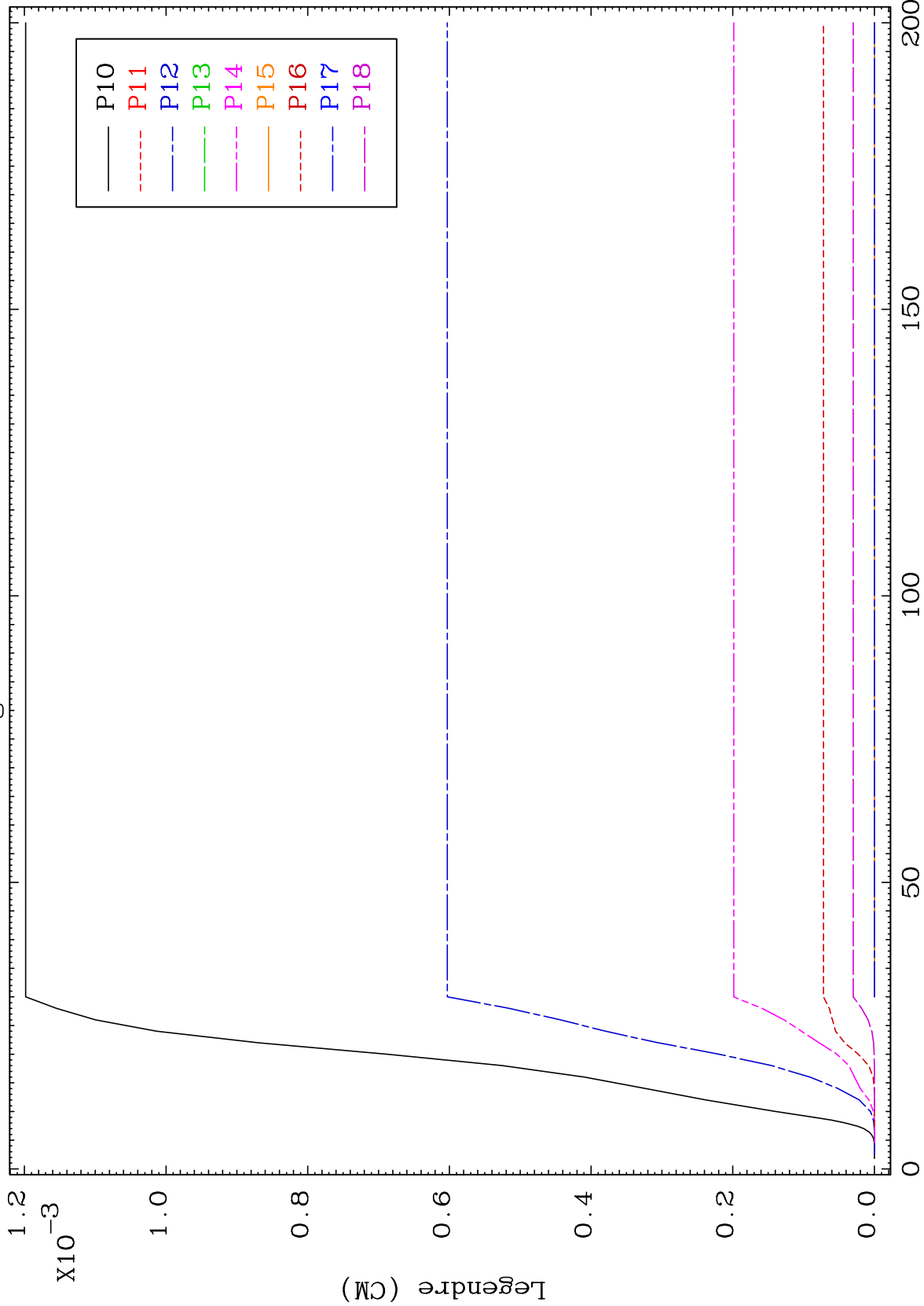
53-I -121



85

Incident Energy (MeV)

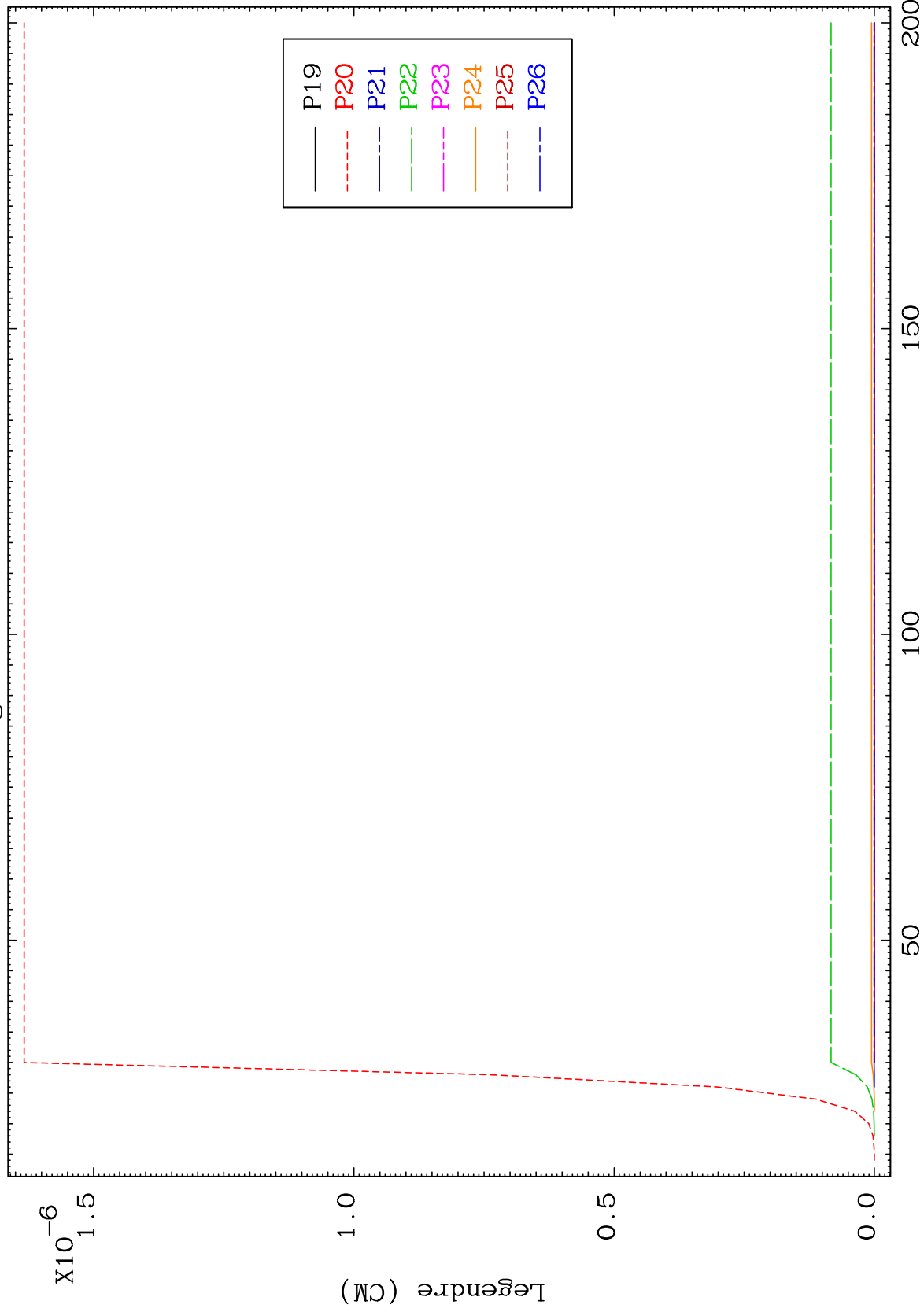
53-I -121



MAT 5307

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

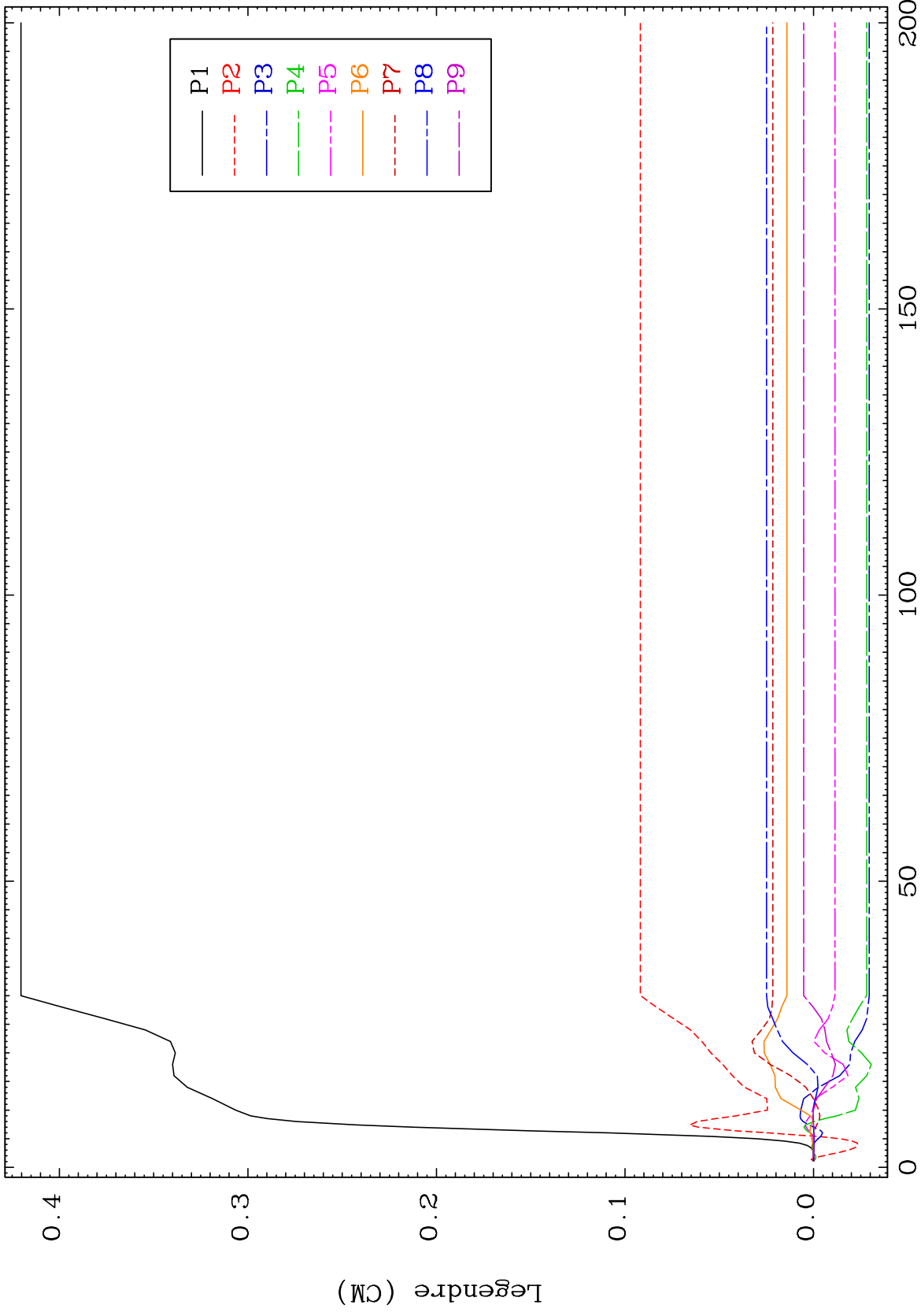
53-I -121



87

Incident Energy (MeV)

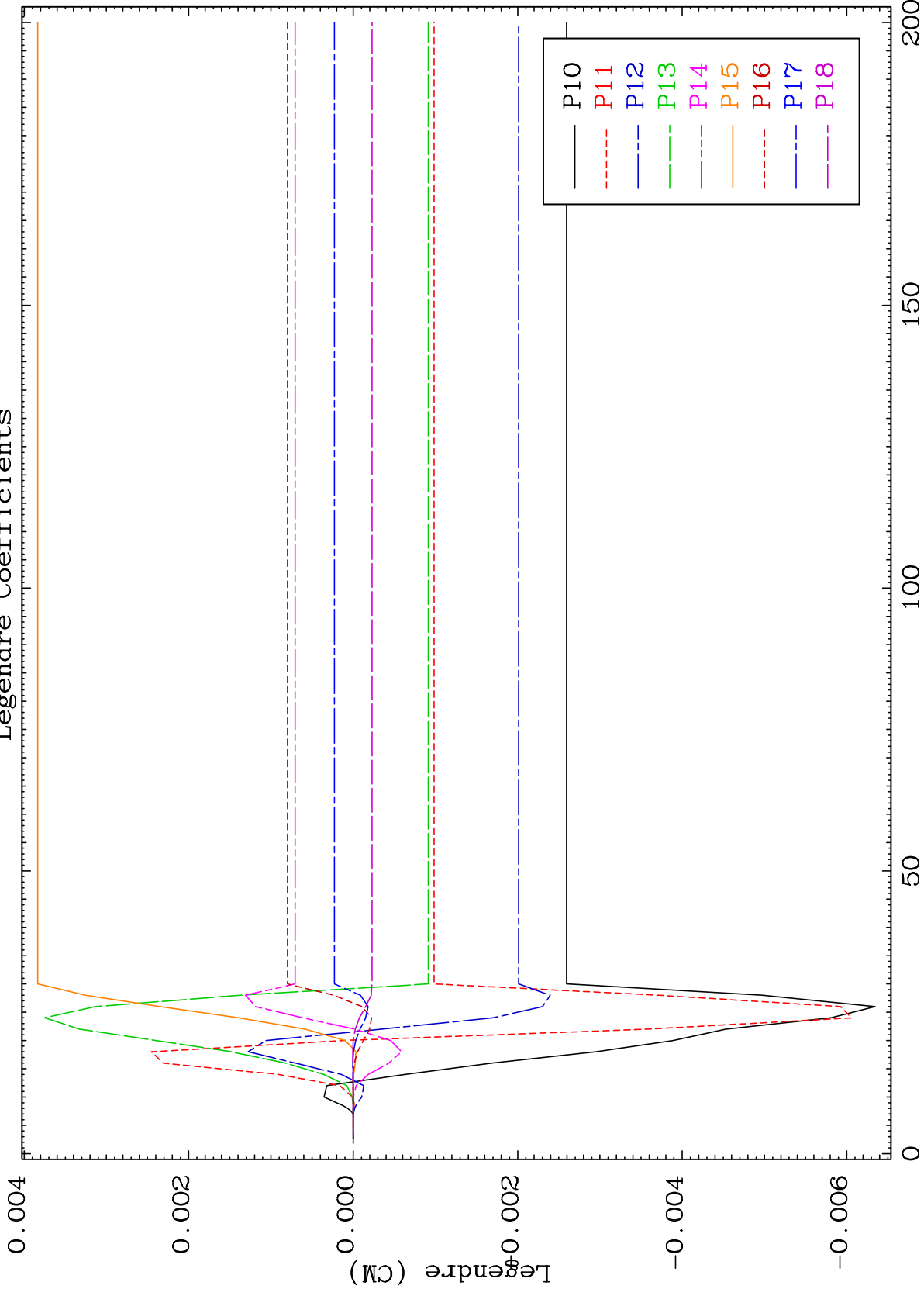
53-I -121



MAT 5307

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

53-I -121



89

Incident Energy (MeV)

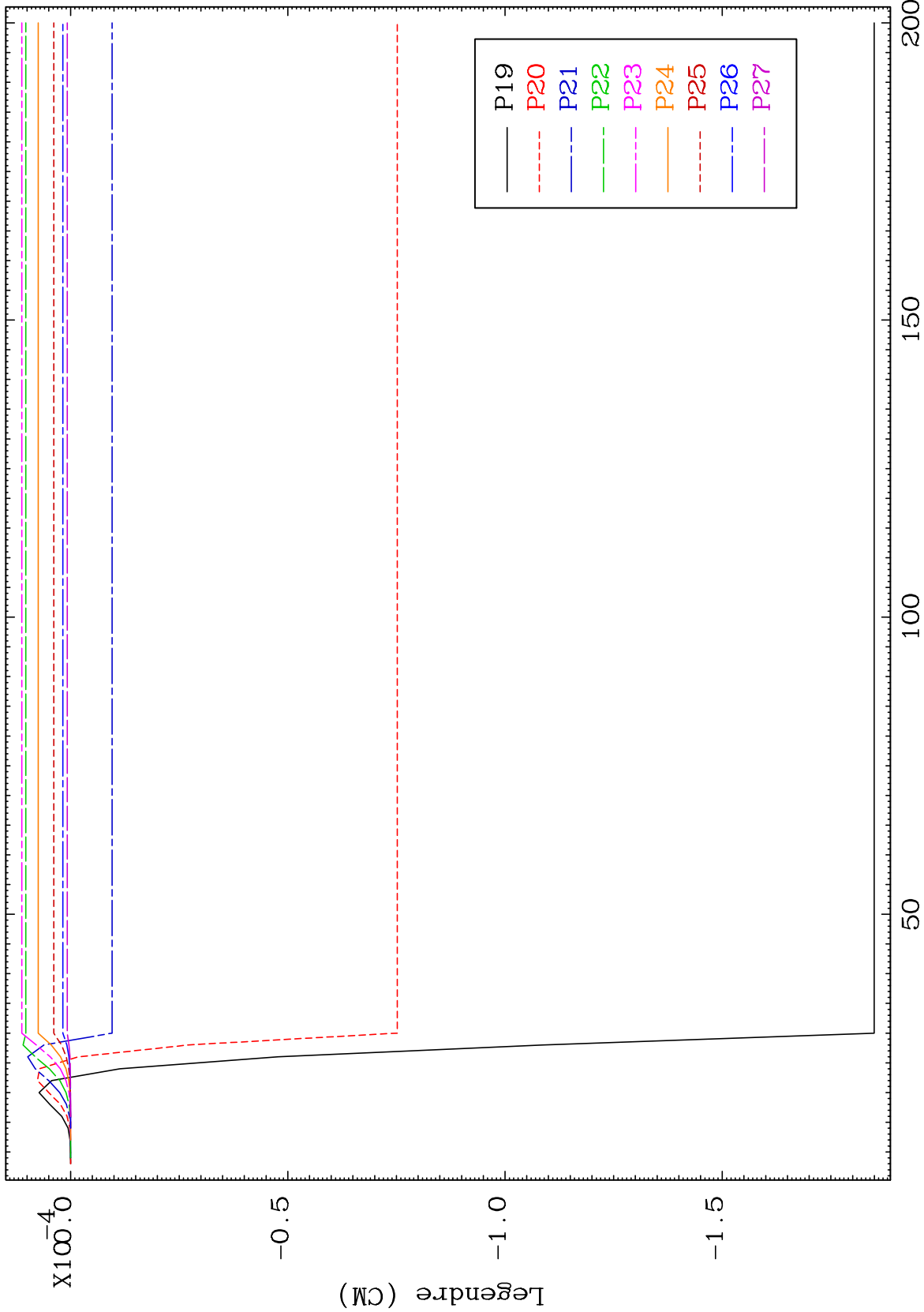
53-I -121

MAT 5307

MT= 71 (n,n') Level

53-I -121

Legendre Coefficients



90

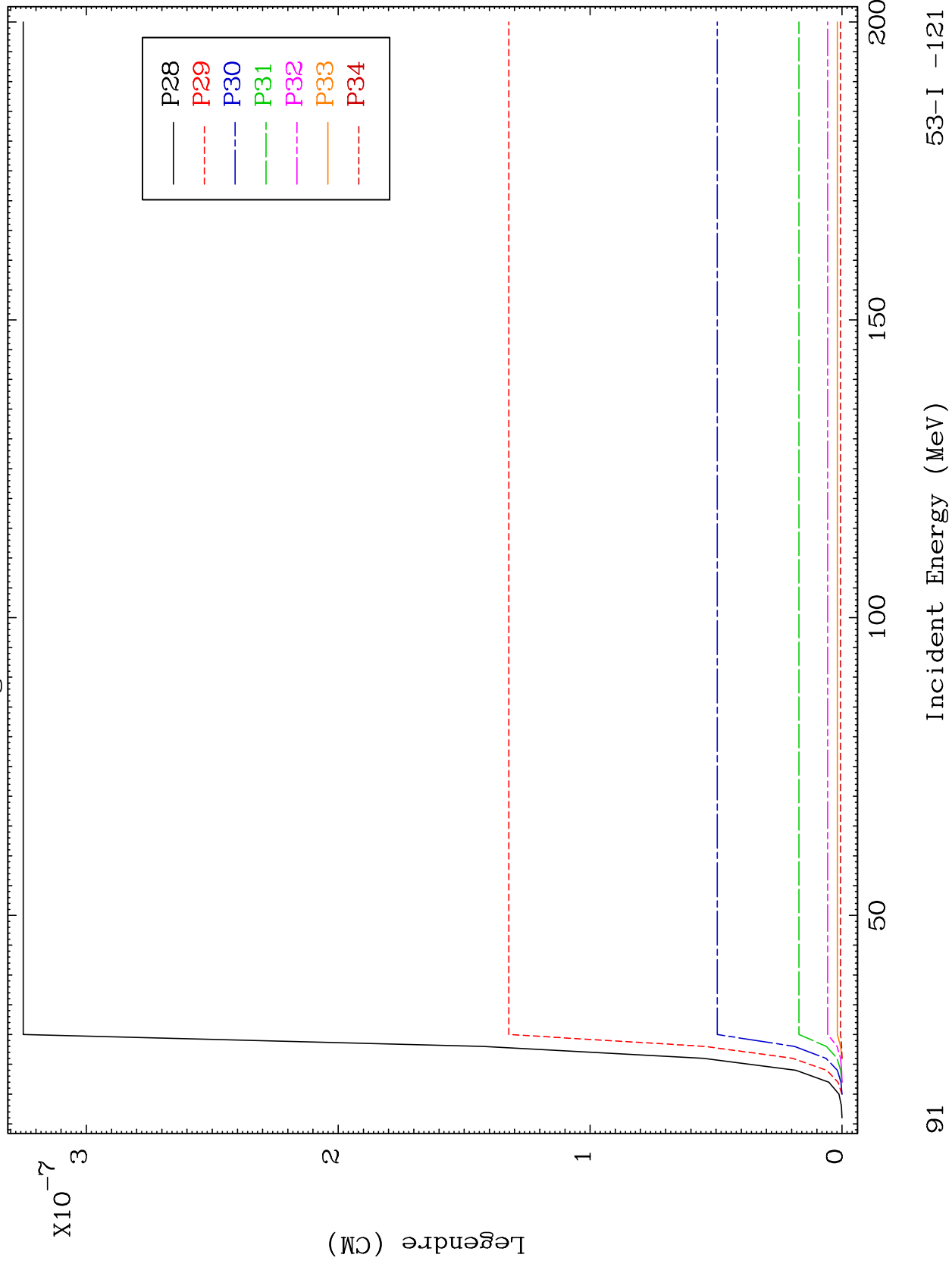
Incident Energy (MeV)

53-I -121

MAT 5307

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

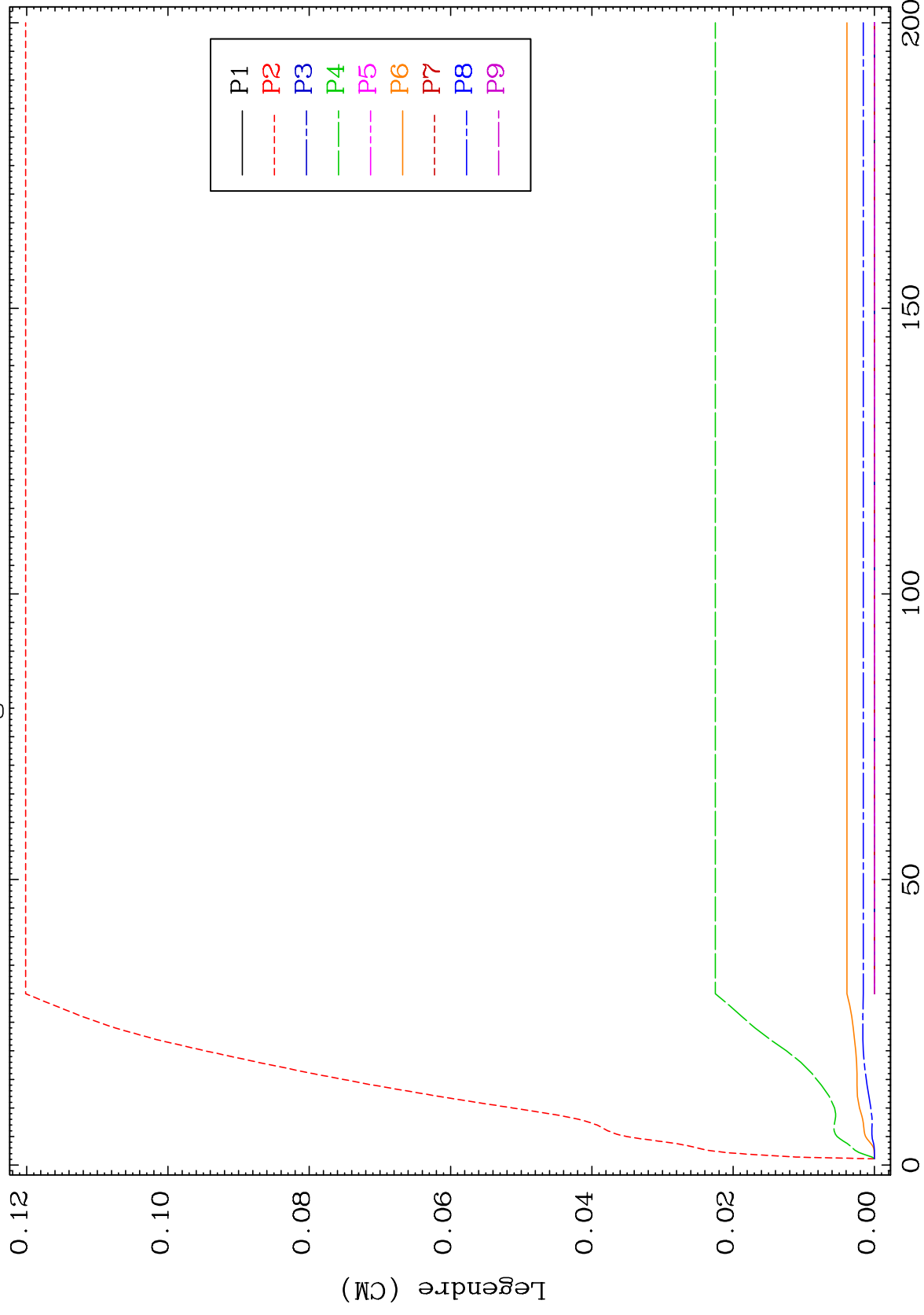
53-I -121



MAT 5307

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

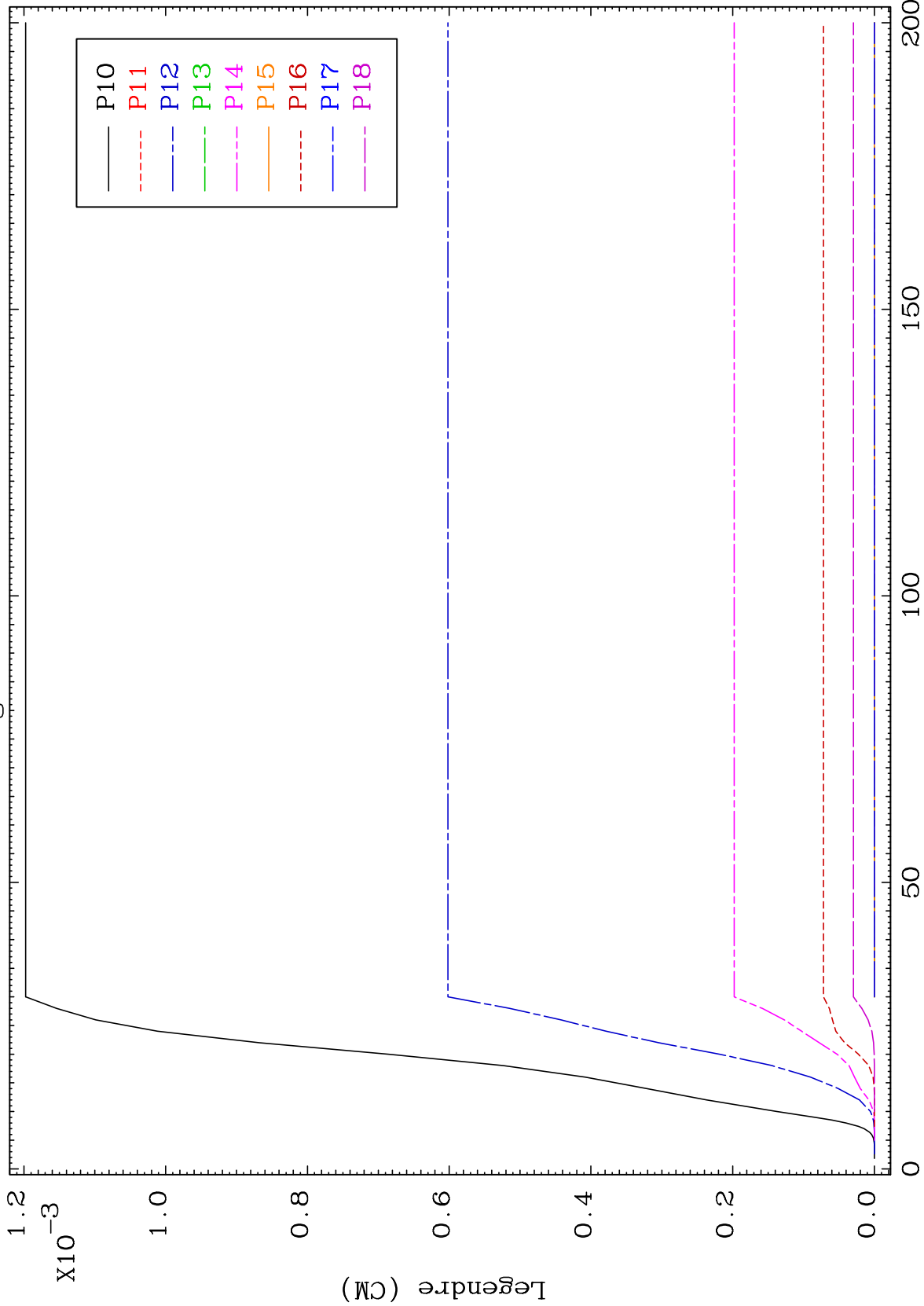
53-I -121



92

Incident Energy (MeV)

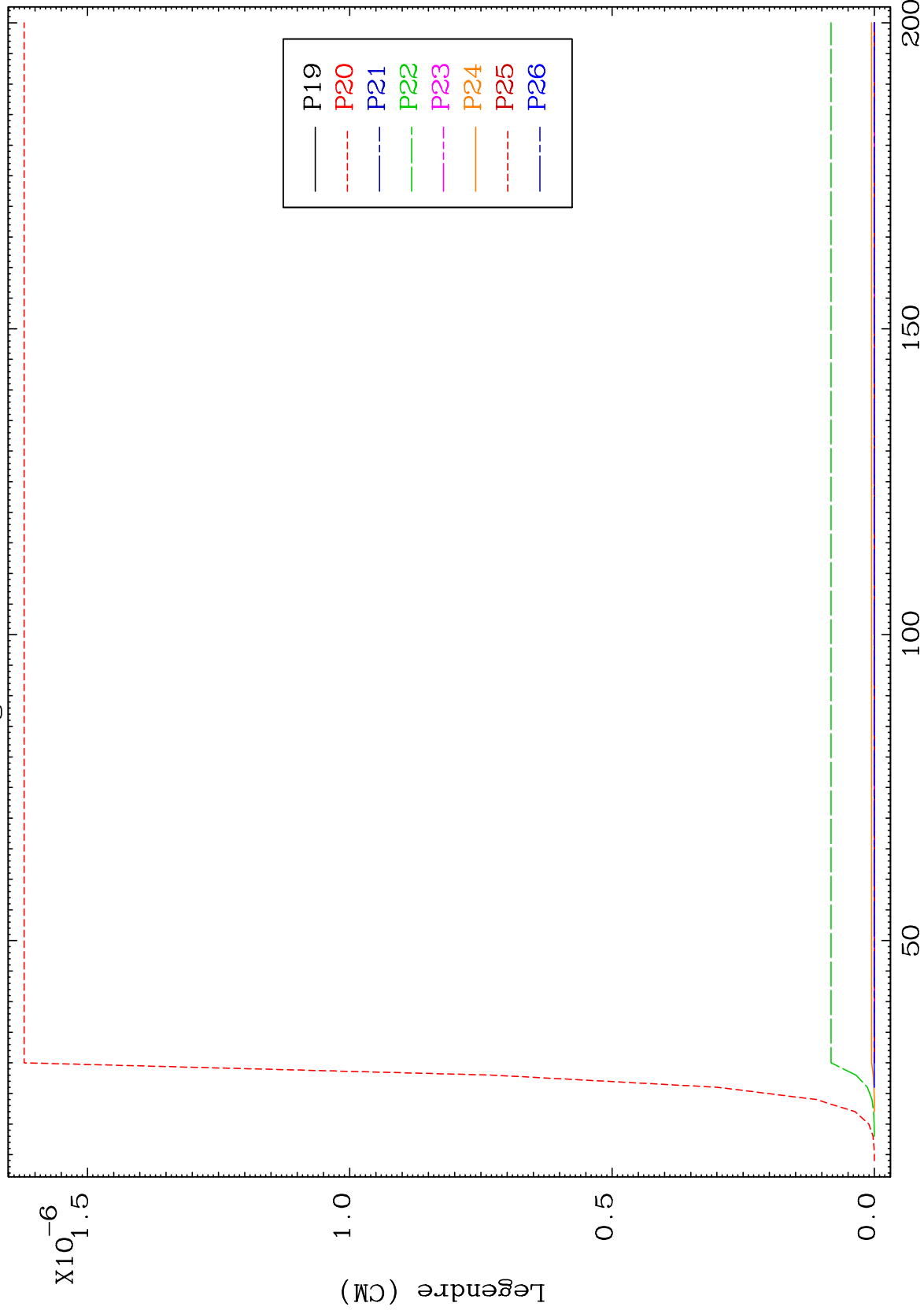
53-I -121



MAT 5307

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

53-I -121



94

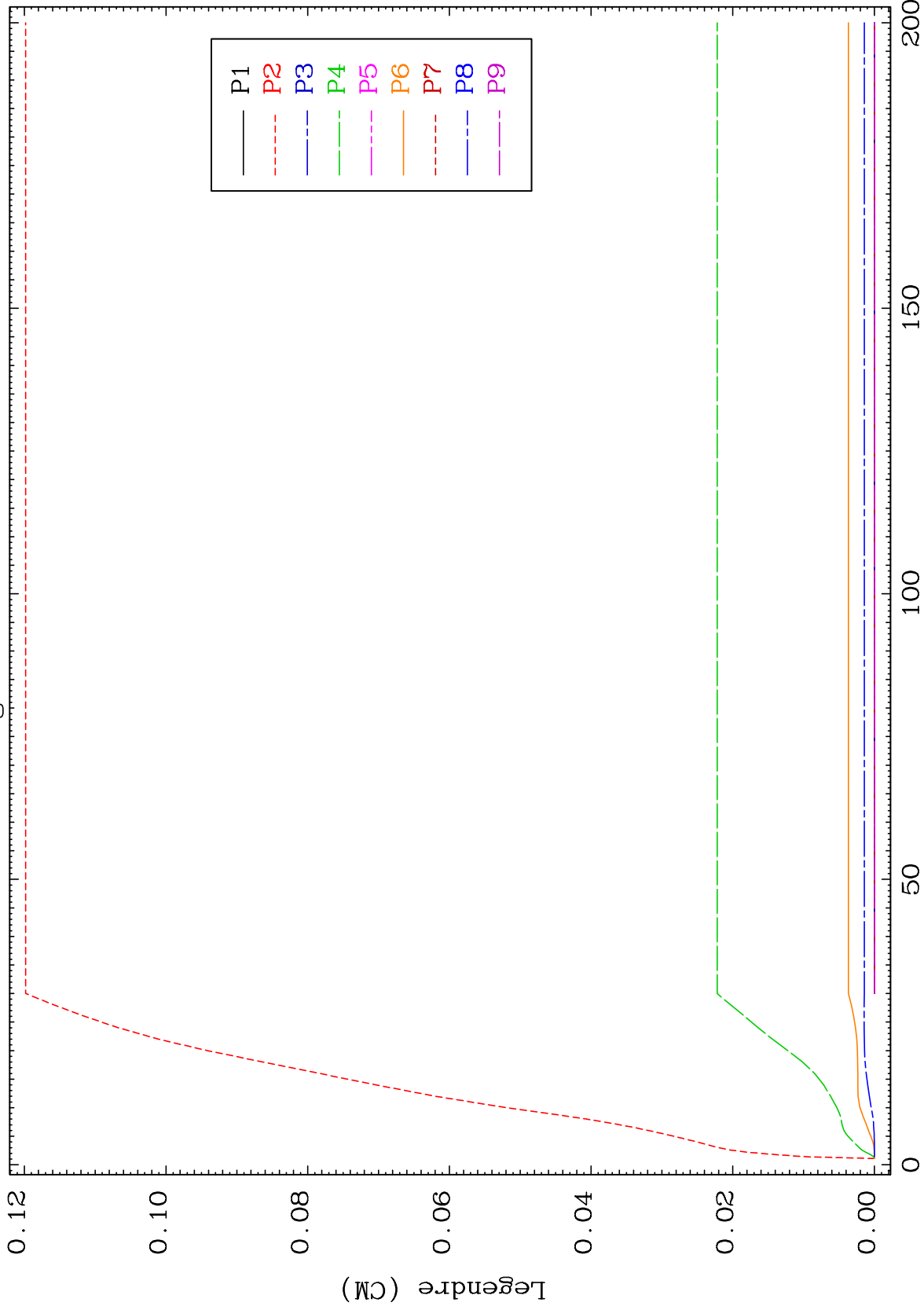
Incident Energy (MeV)

53-I -121

MAT 5307

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

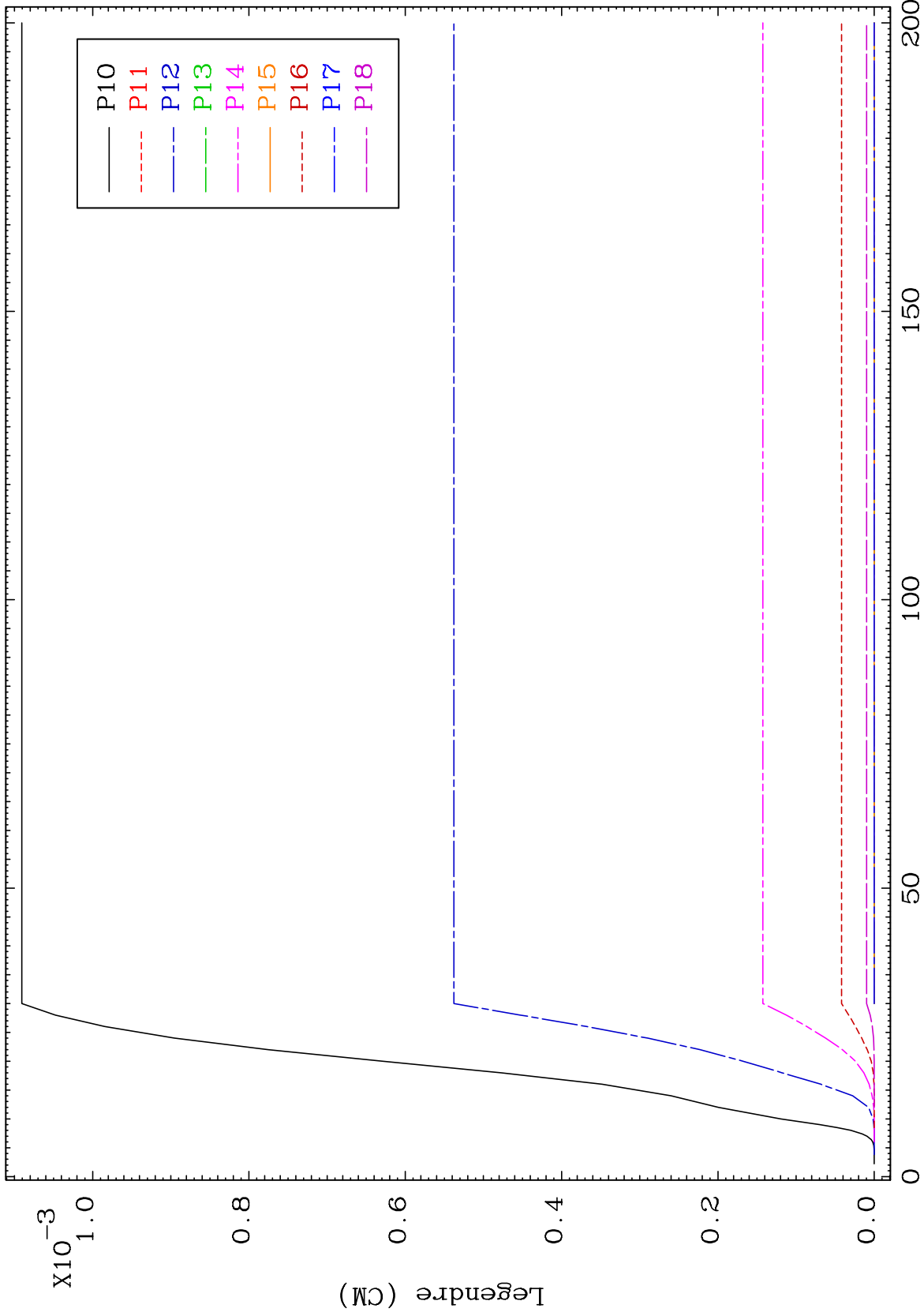
53-I -121



95

Incident Energy (MeV)

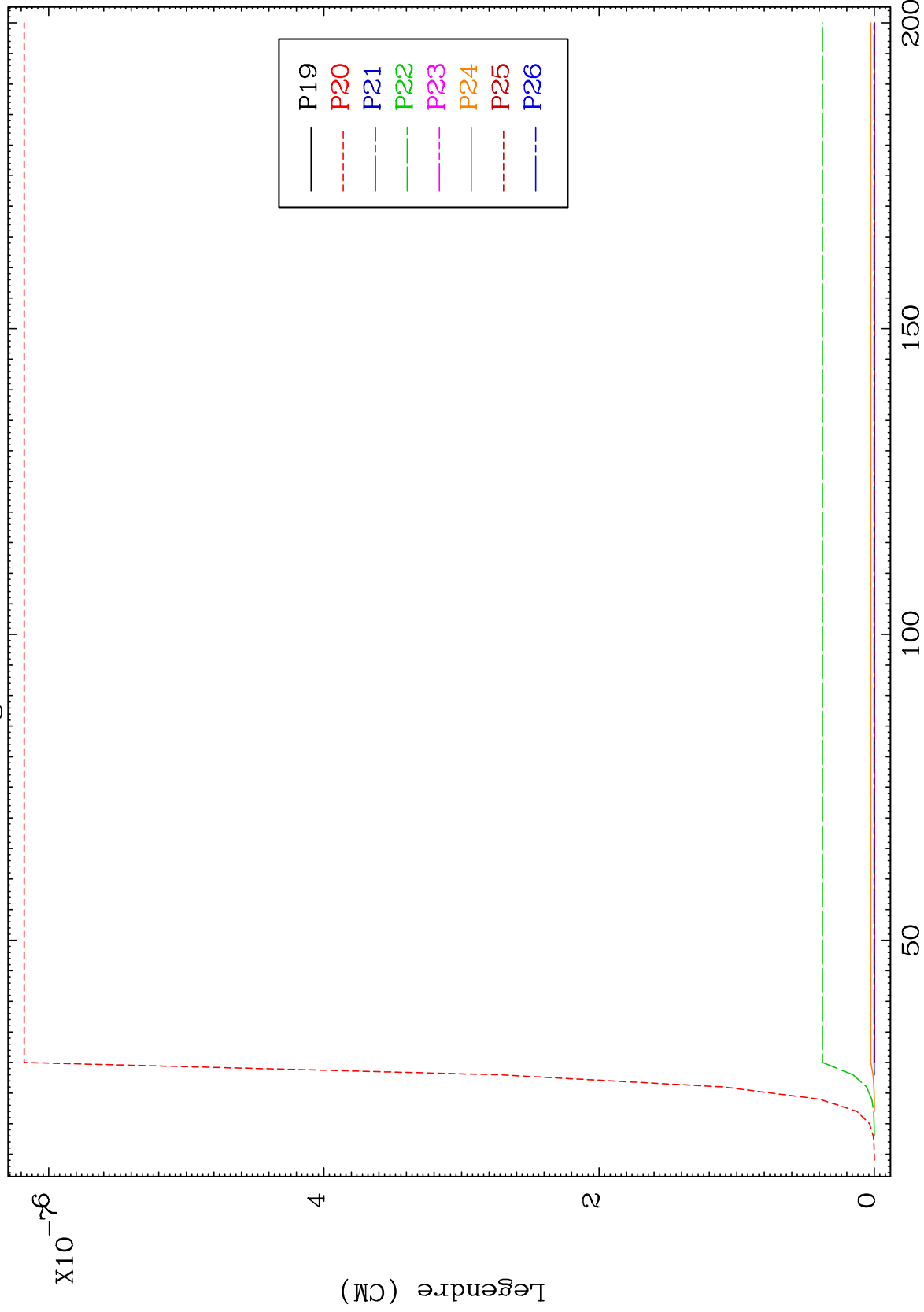
53-I -121



MAT 5307

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

53-I -121



97

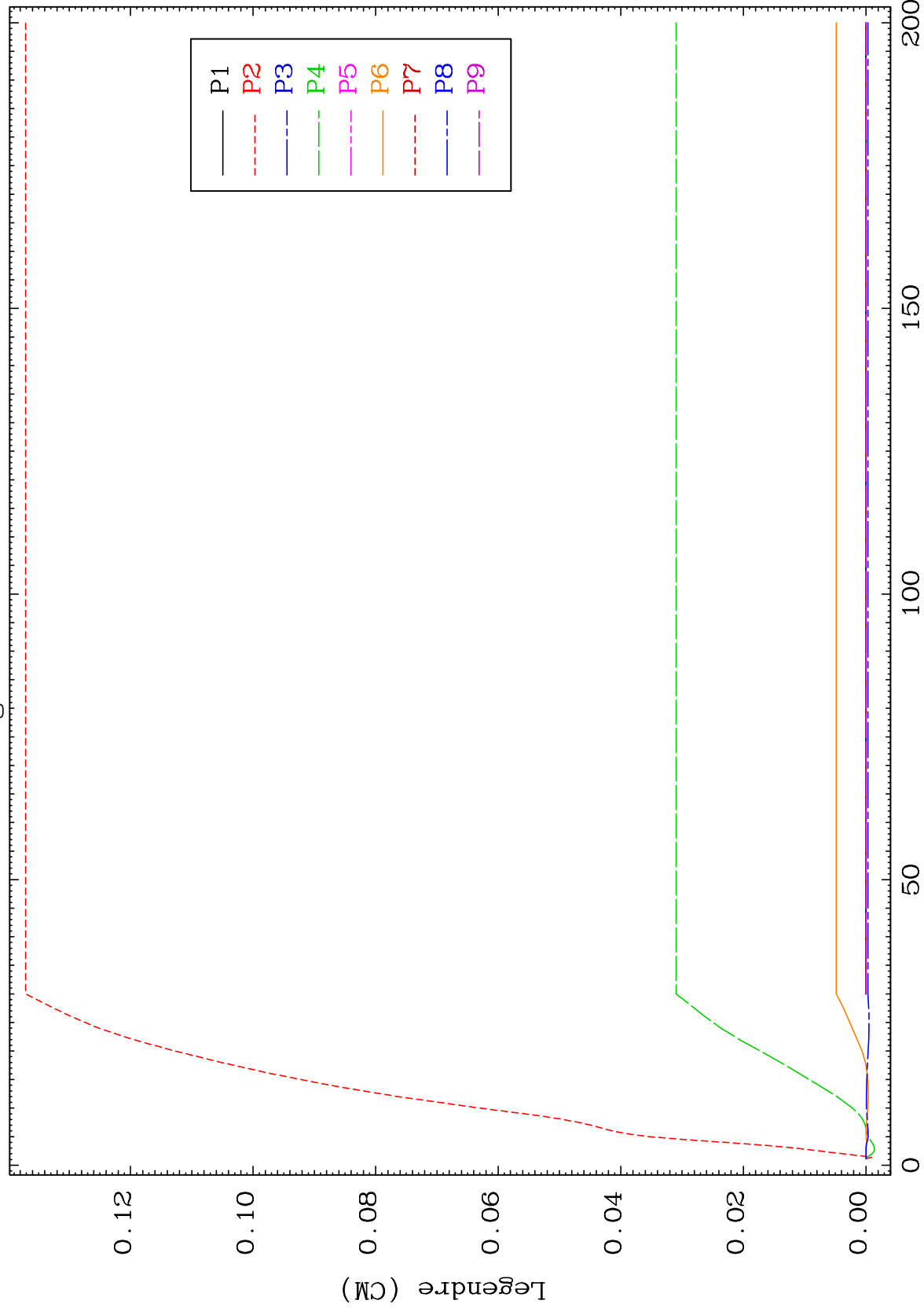
Incident Energy (MeV)

53-I -121

MAT 5307

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

53-I -121



98

Incident Energy (MeV)

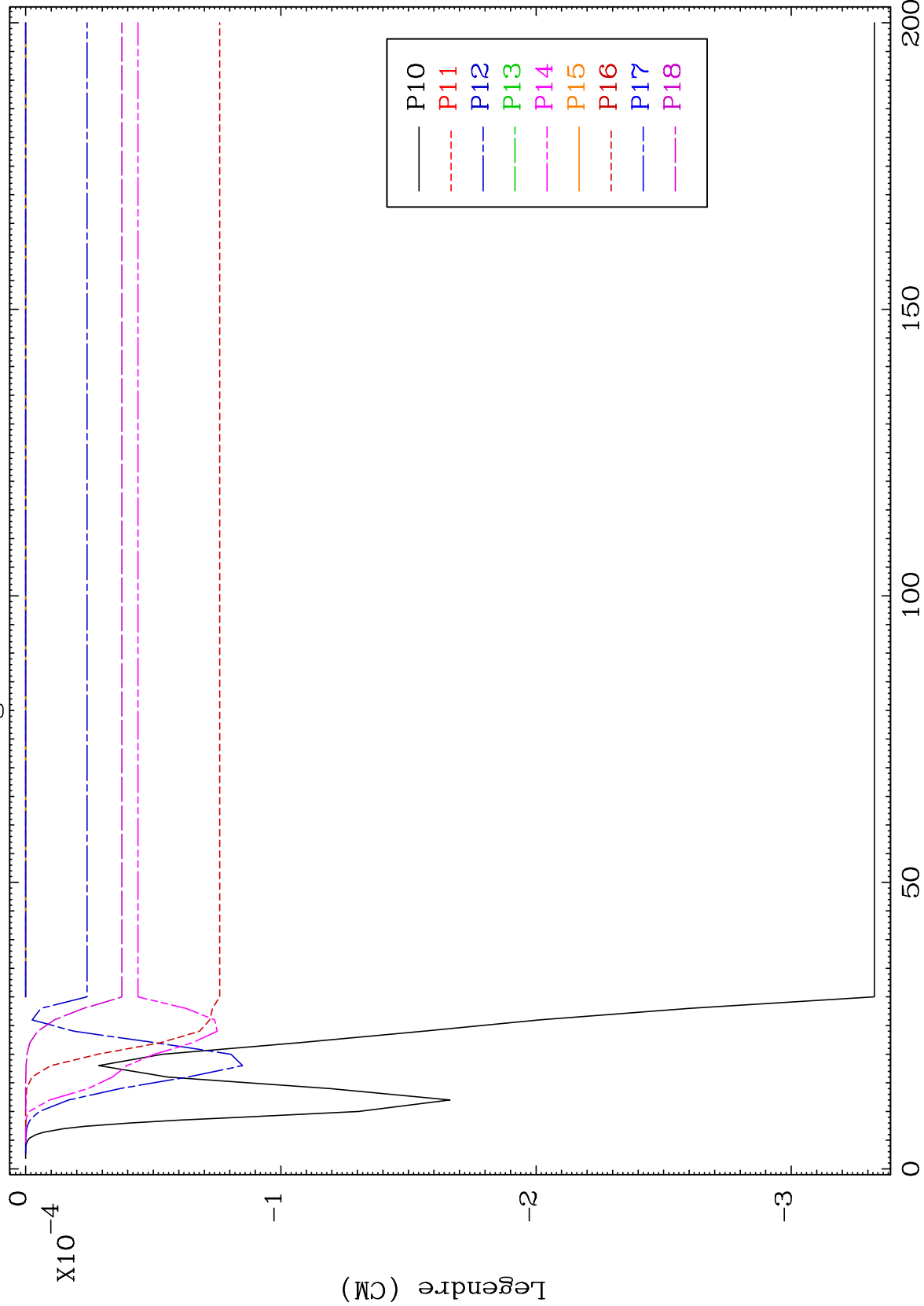
53-I -121

MAT 5307

MT= 74 (n,n') Level

53-I -121

Legendre Coefficients



99

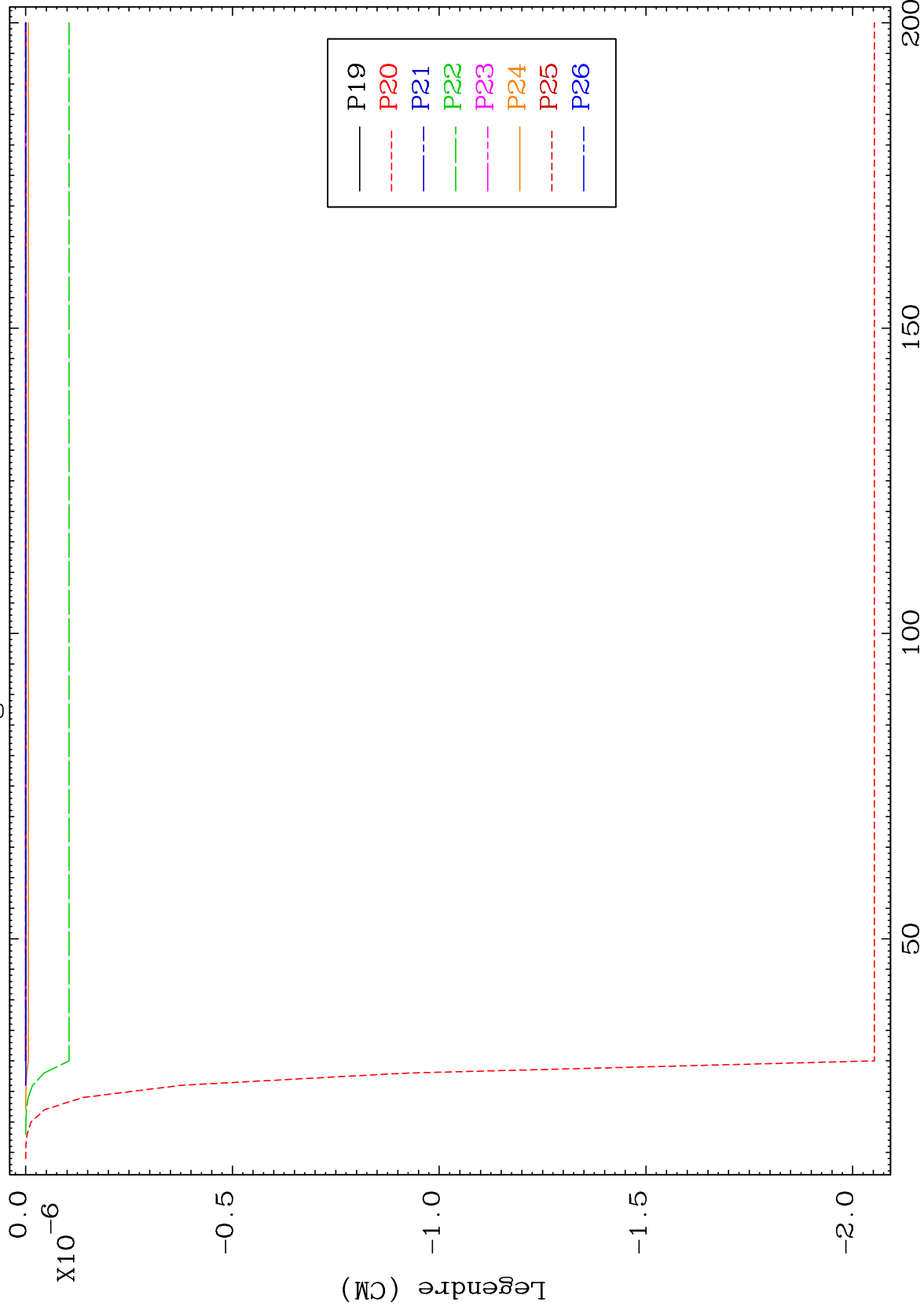
Incident Energy (MeV)

53-I -121

MAT 5307

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

53-I -121



100

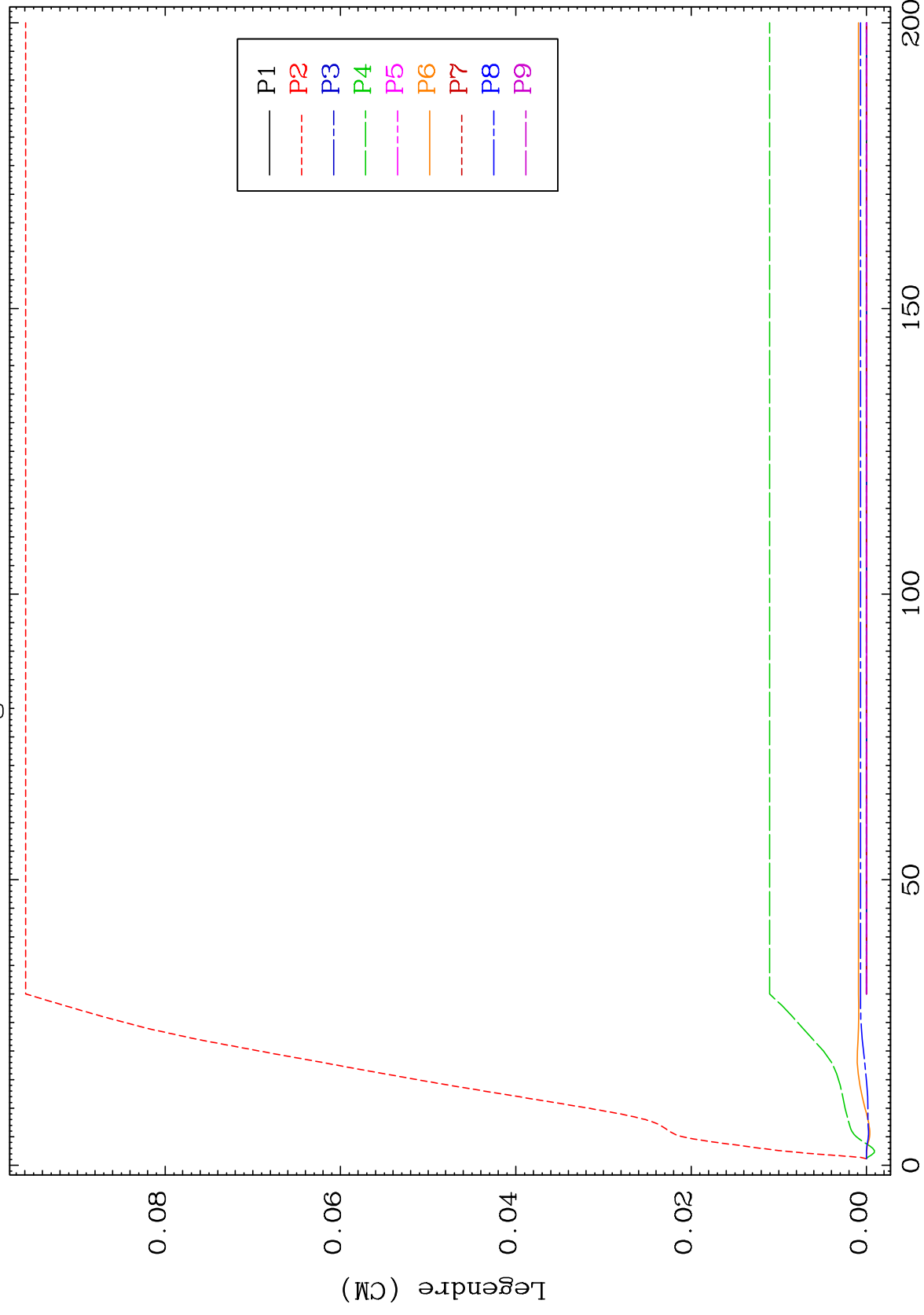
Incident Energy (MeV)

53-I -121

MAT 5307

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

53-I -121



101

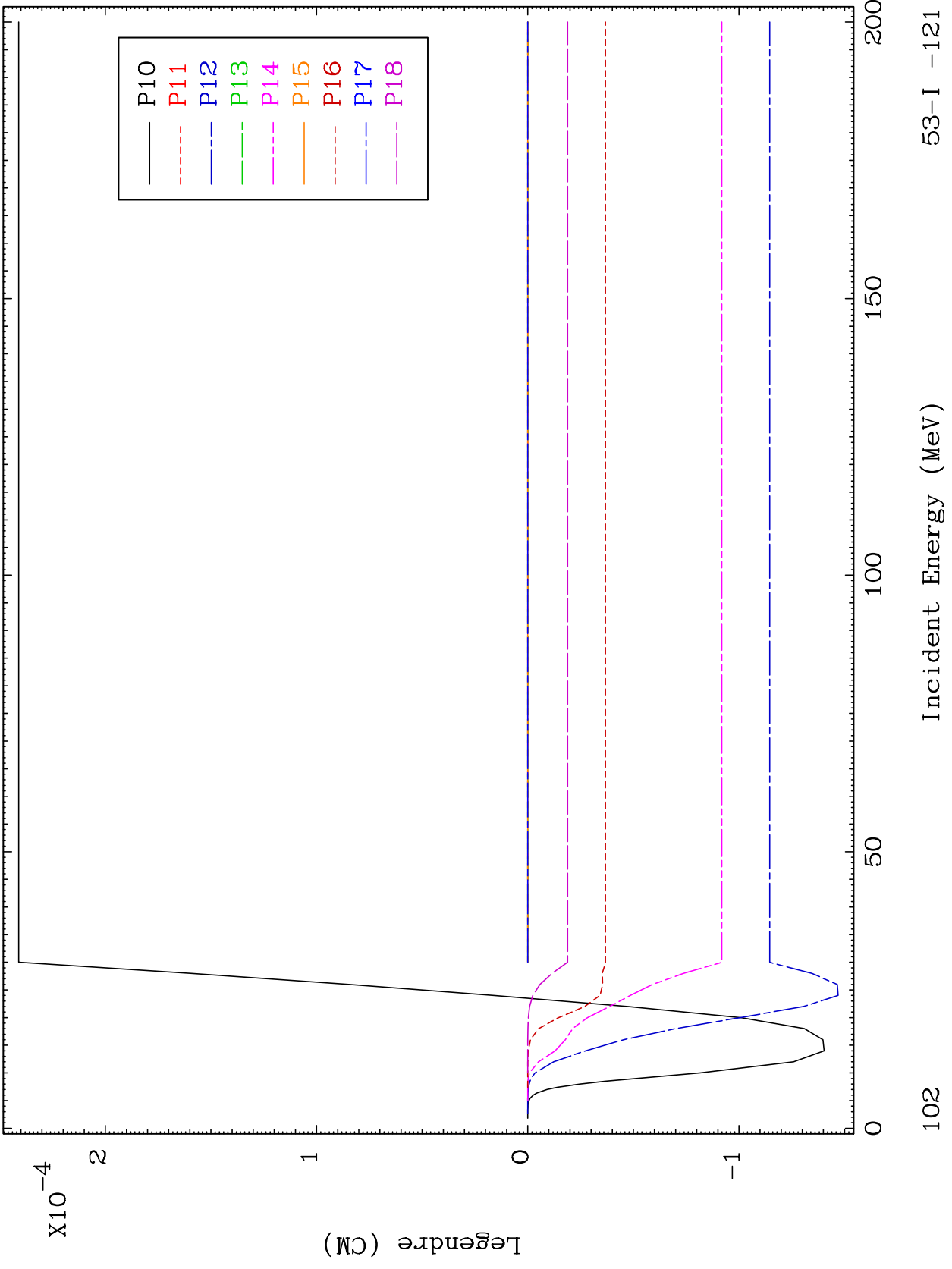
Incident Energy (MeV)

53-I -121

MAT 5307

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

53-I -121



53-I -121

Incident Energy (MeV)

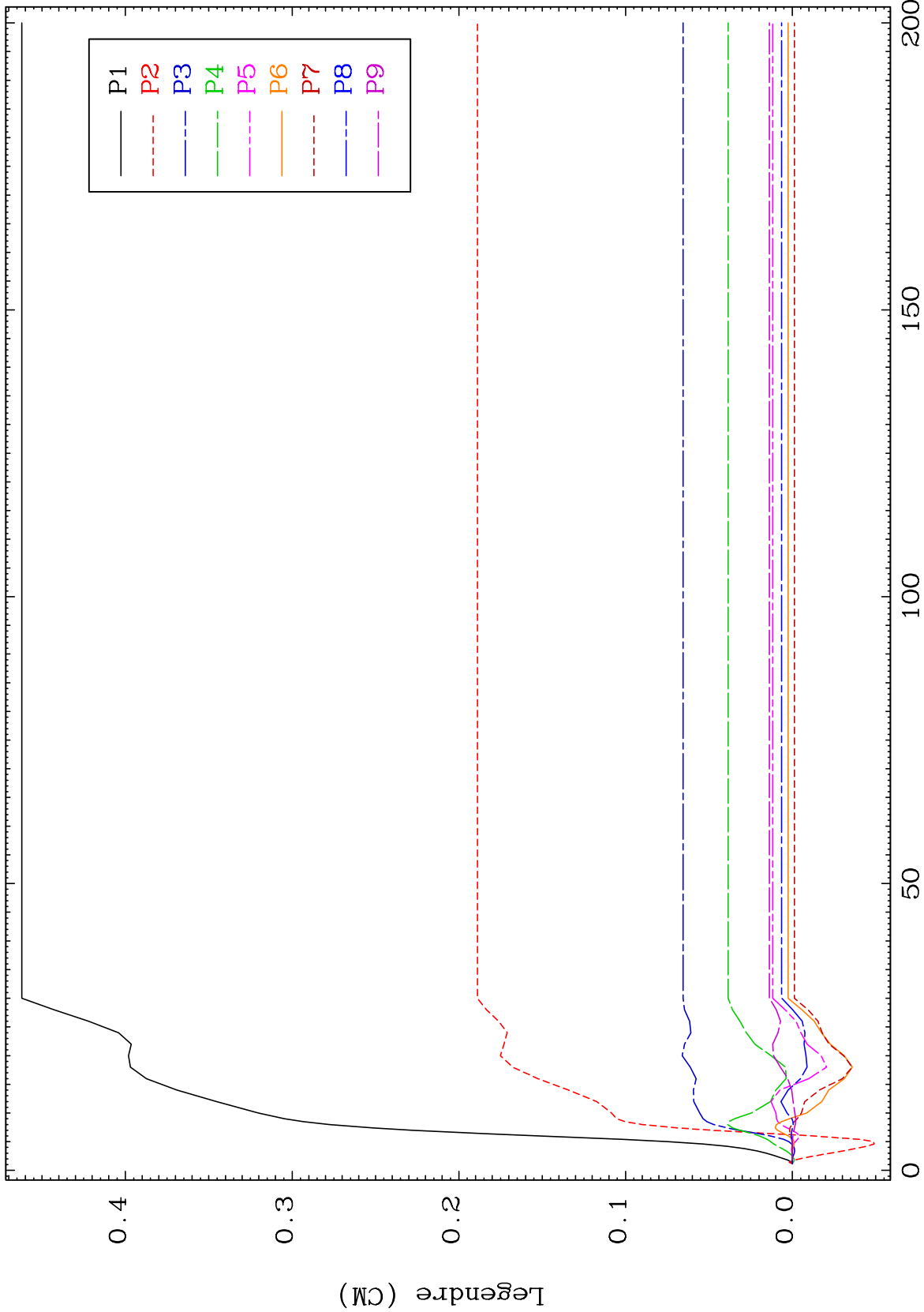
102



MAT 5307

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

53-I -121



104

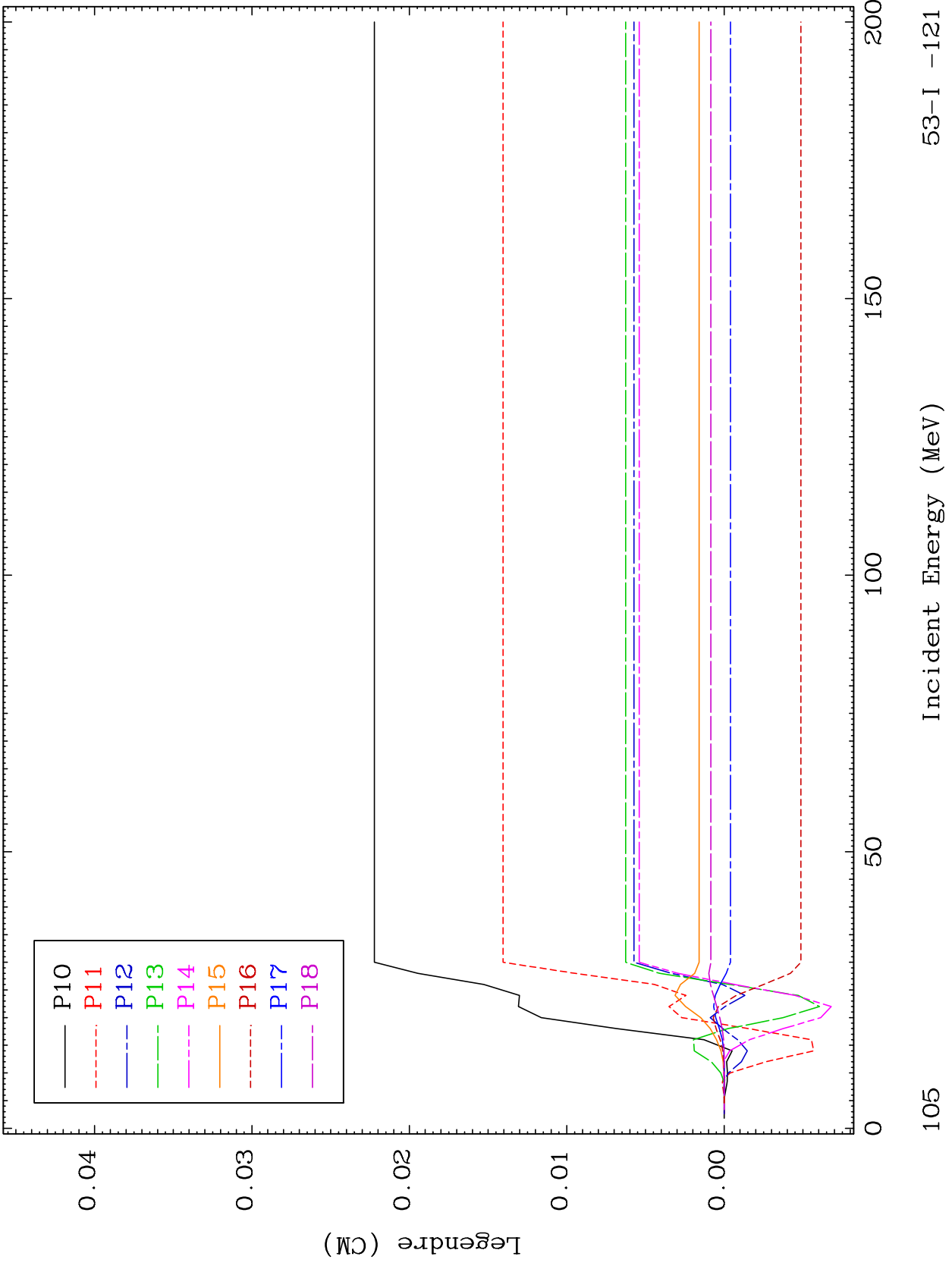
Incident Energy (MeV)

53-I -121

MAT 5307

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

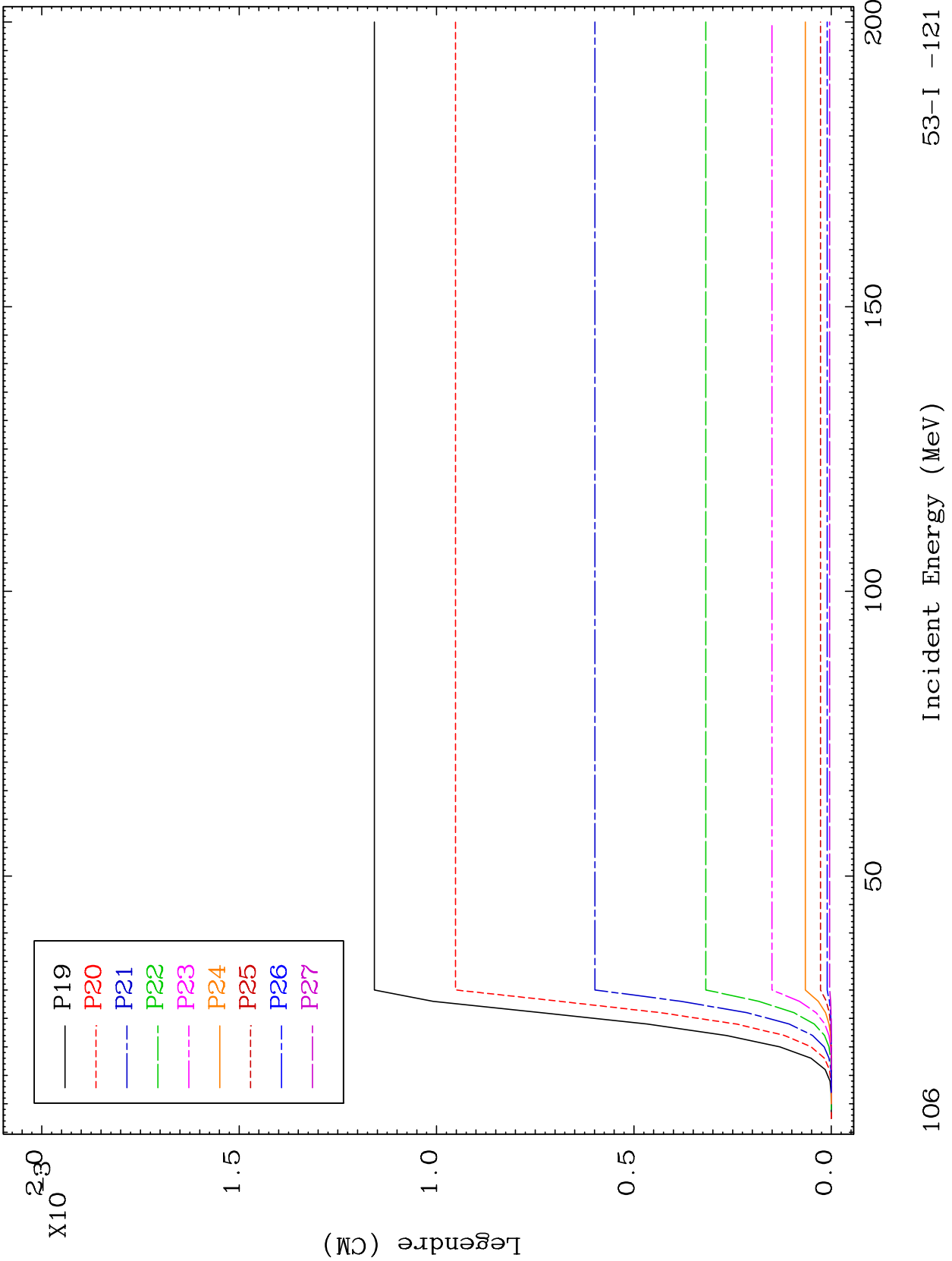
53-I -121



105

Incident Energy (MeV)

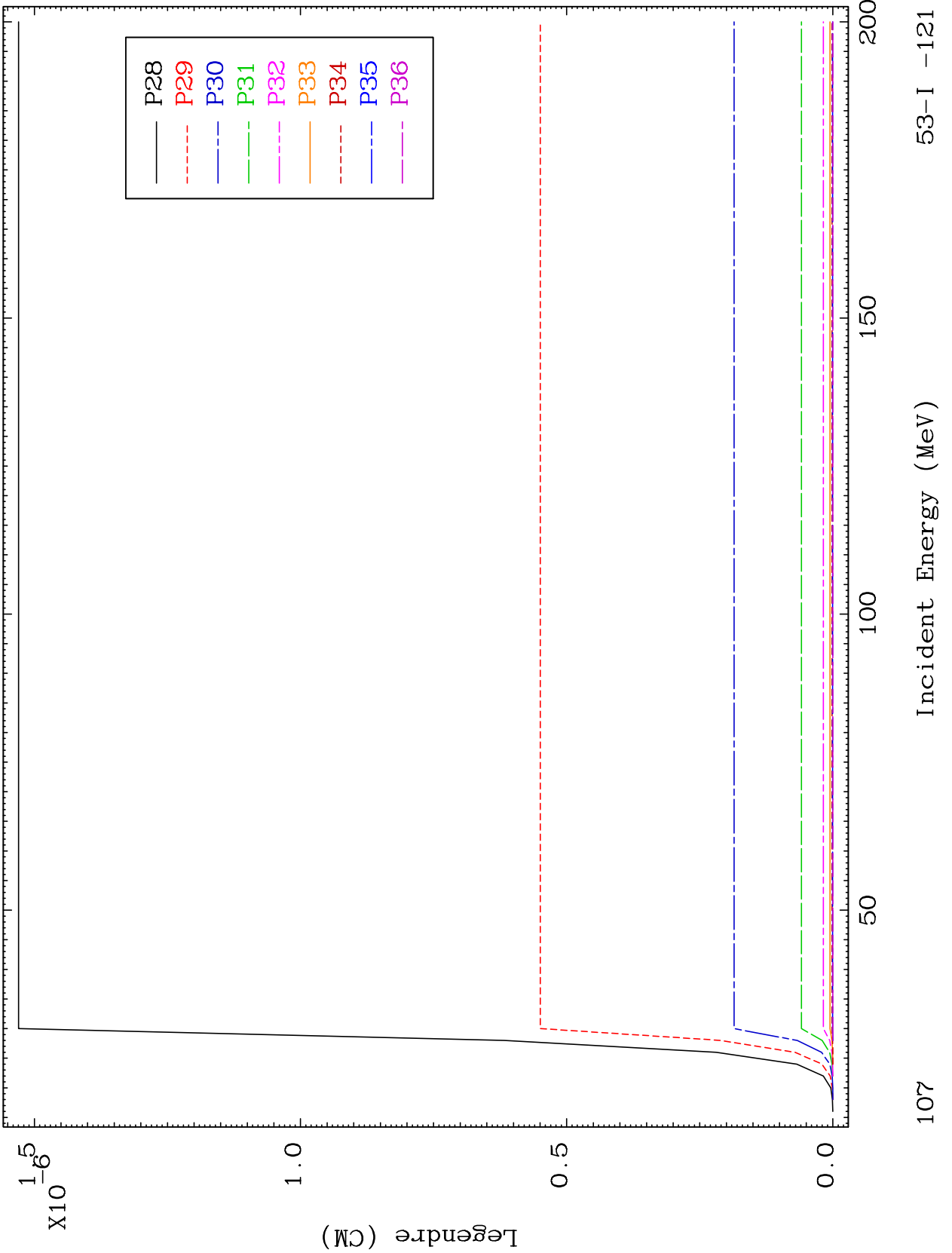
53-I -121



MAT 5307

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

53-I -121



107

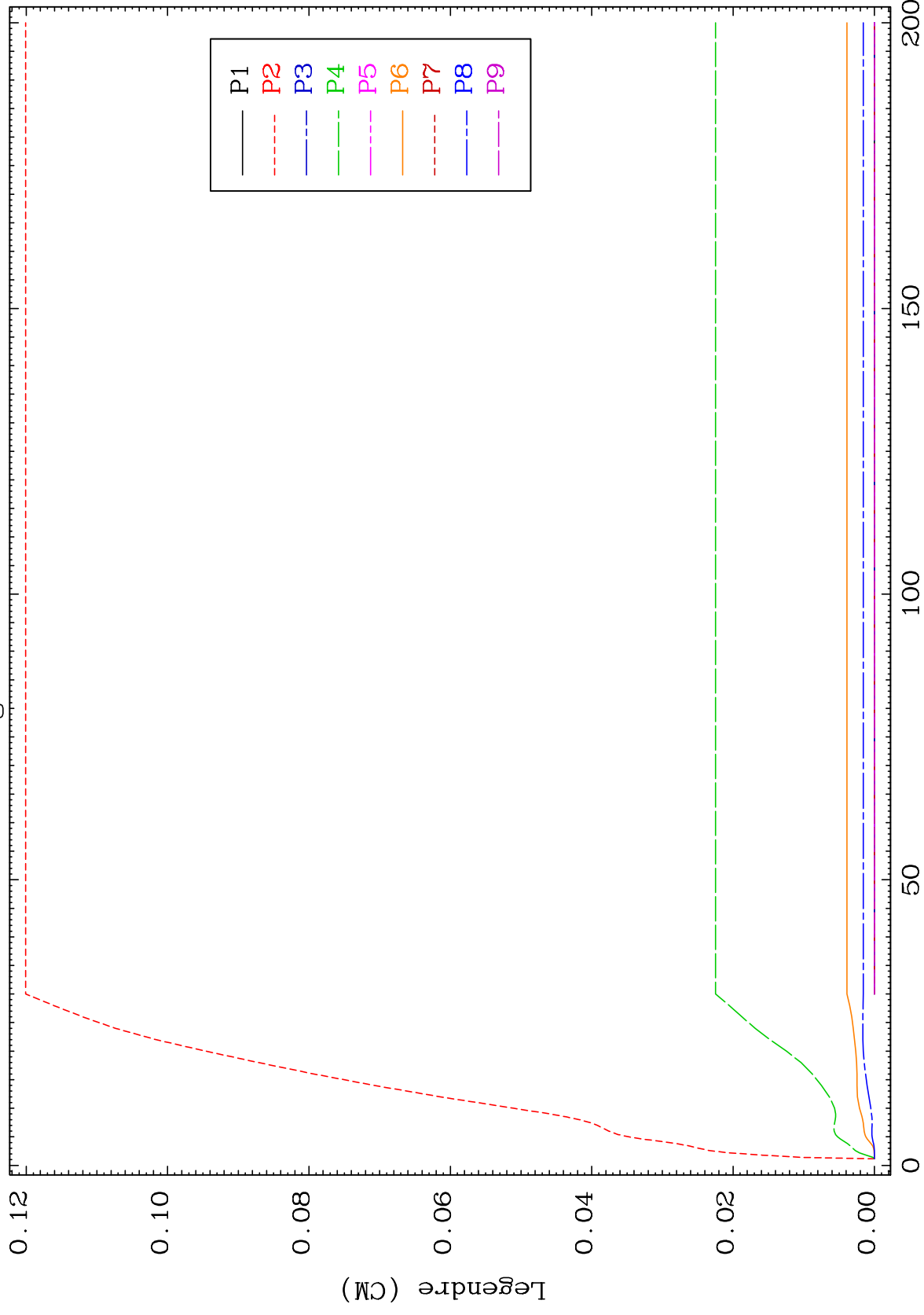
Incident Energy (MeV)

53-I -121

MAT 5307

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

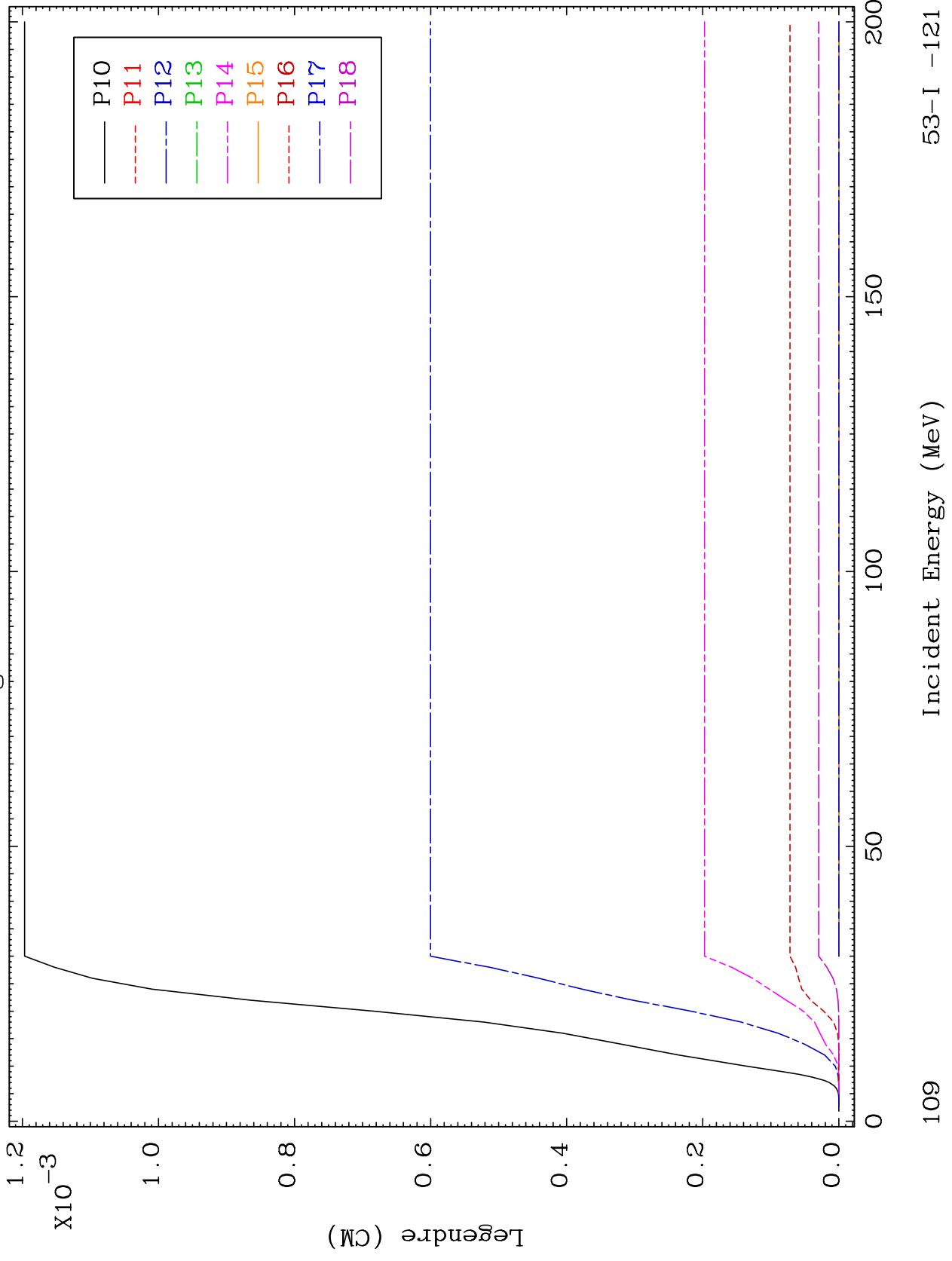
53-I -121



108

Incident Energy (MeV)

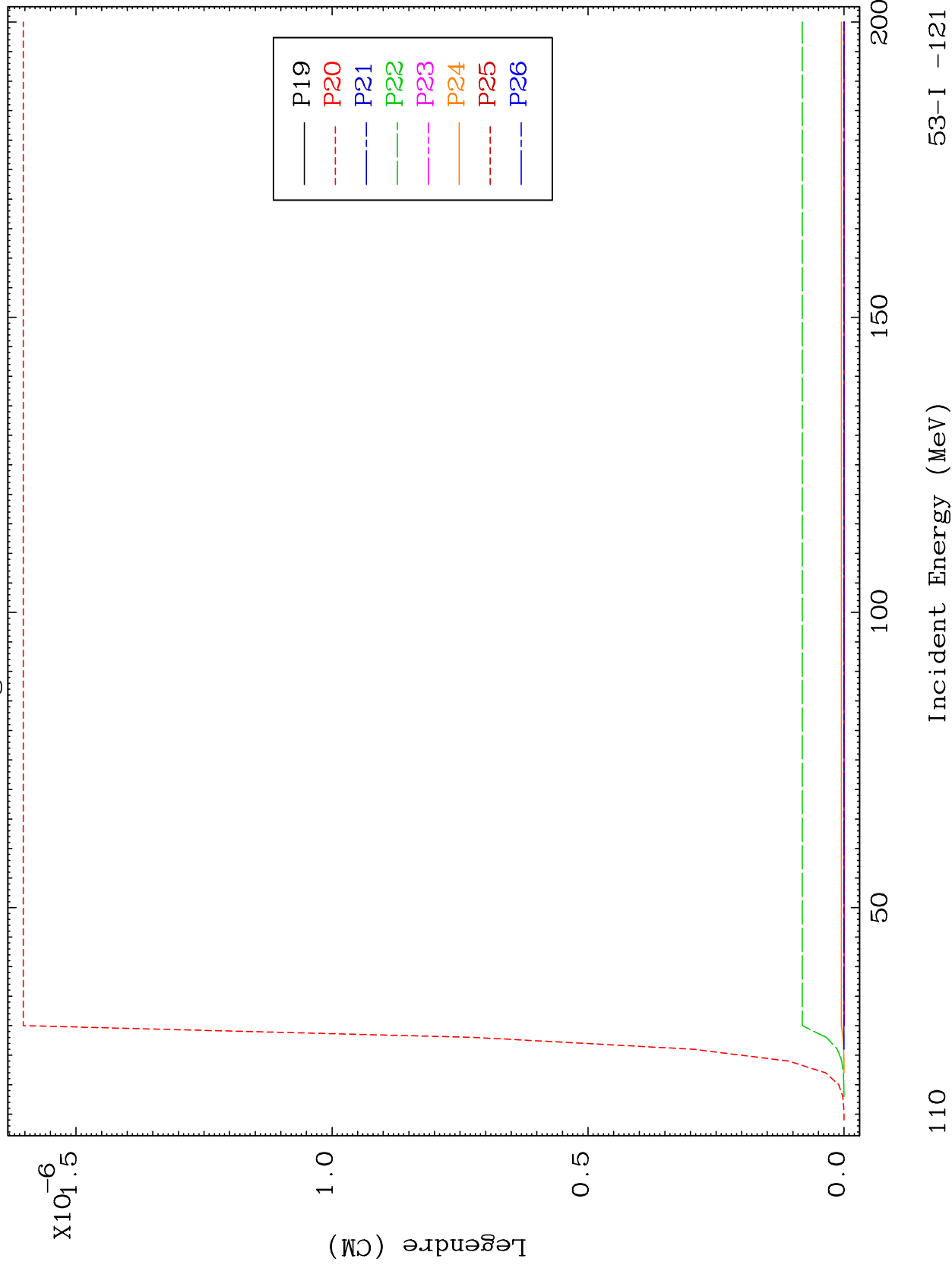
53-I -121

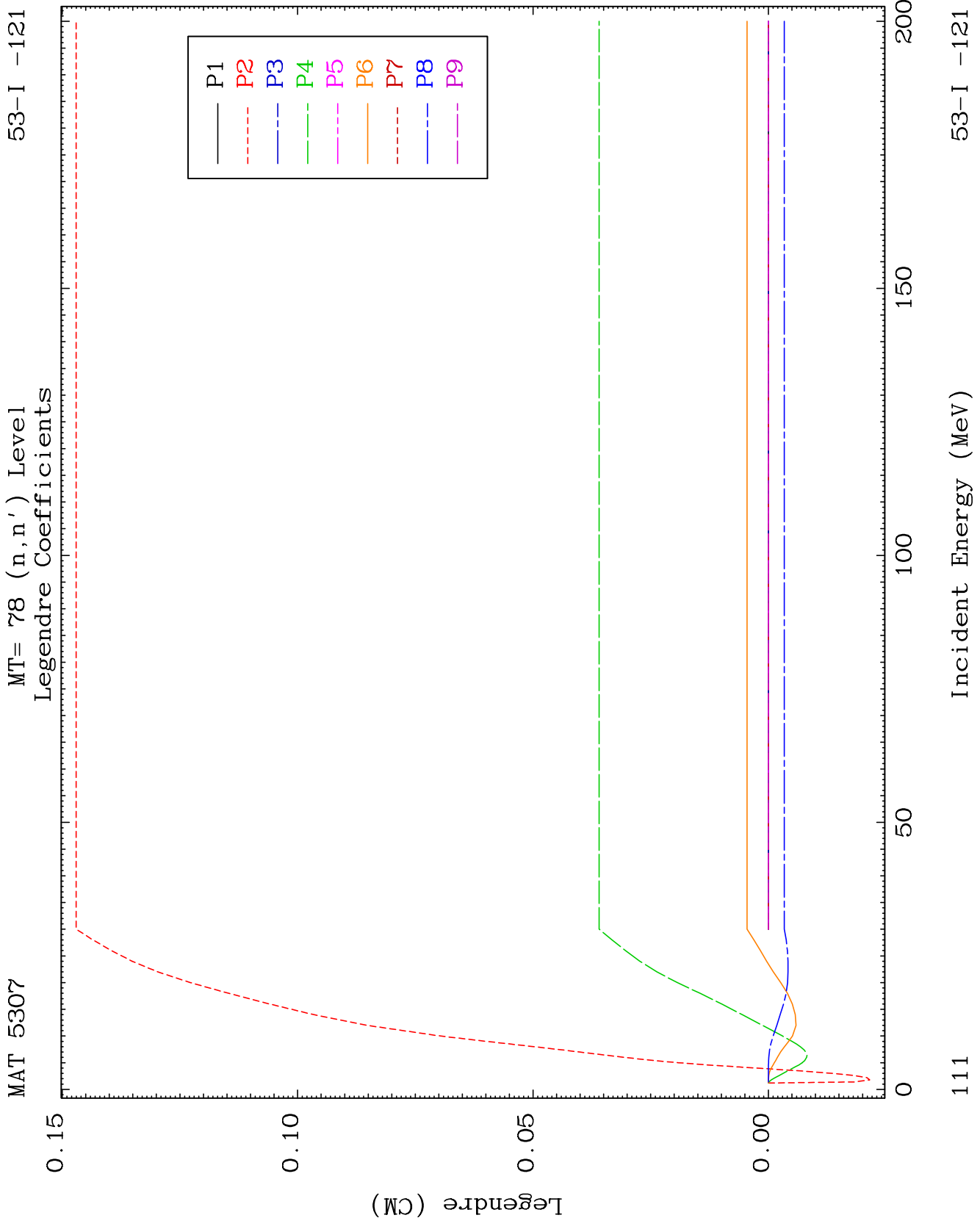


MAT 5307

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

53-I -121

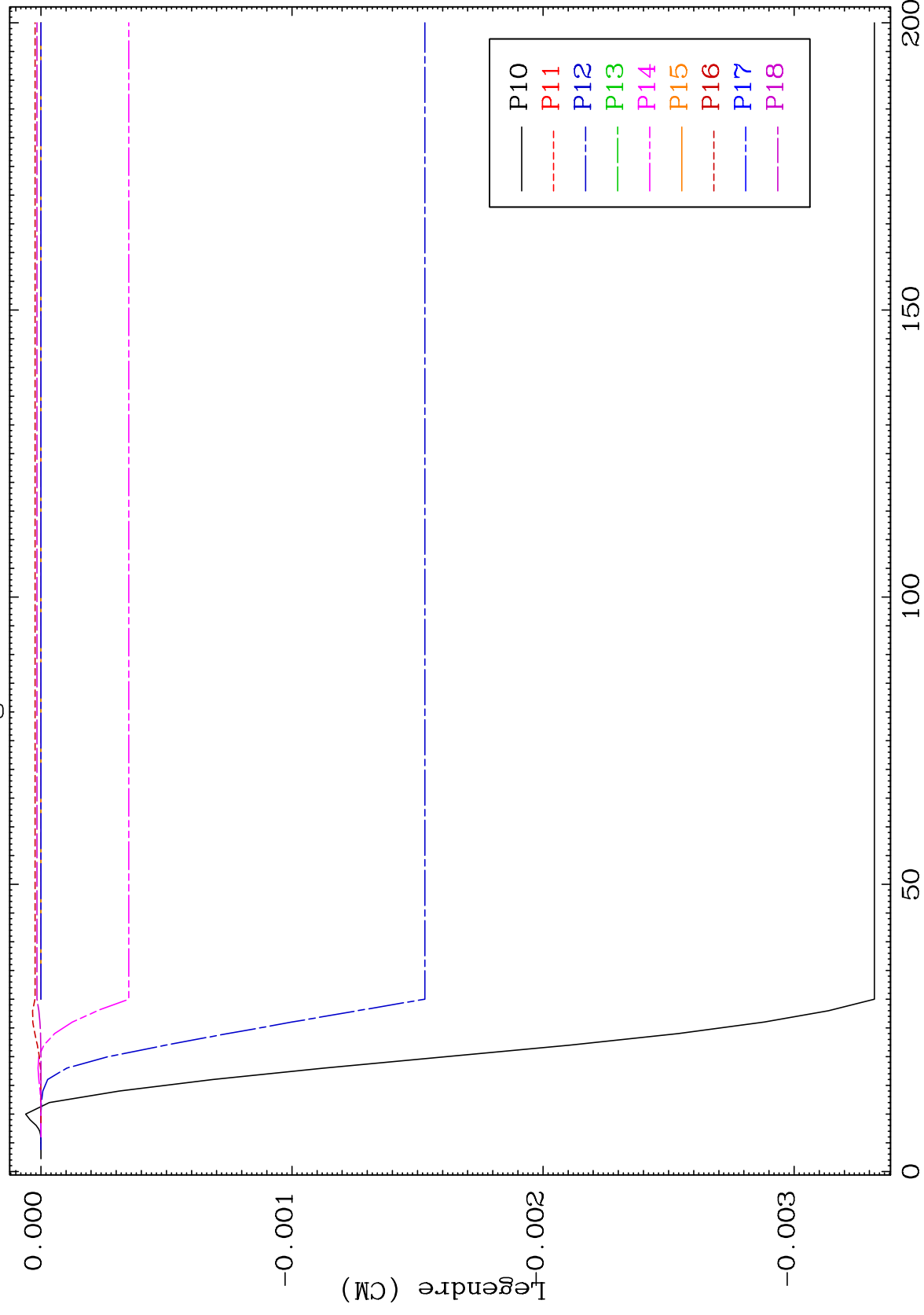




MAT 5307

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

53-I -121



112

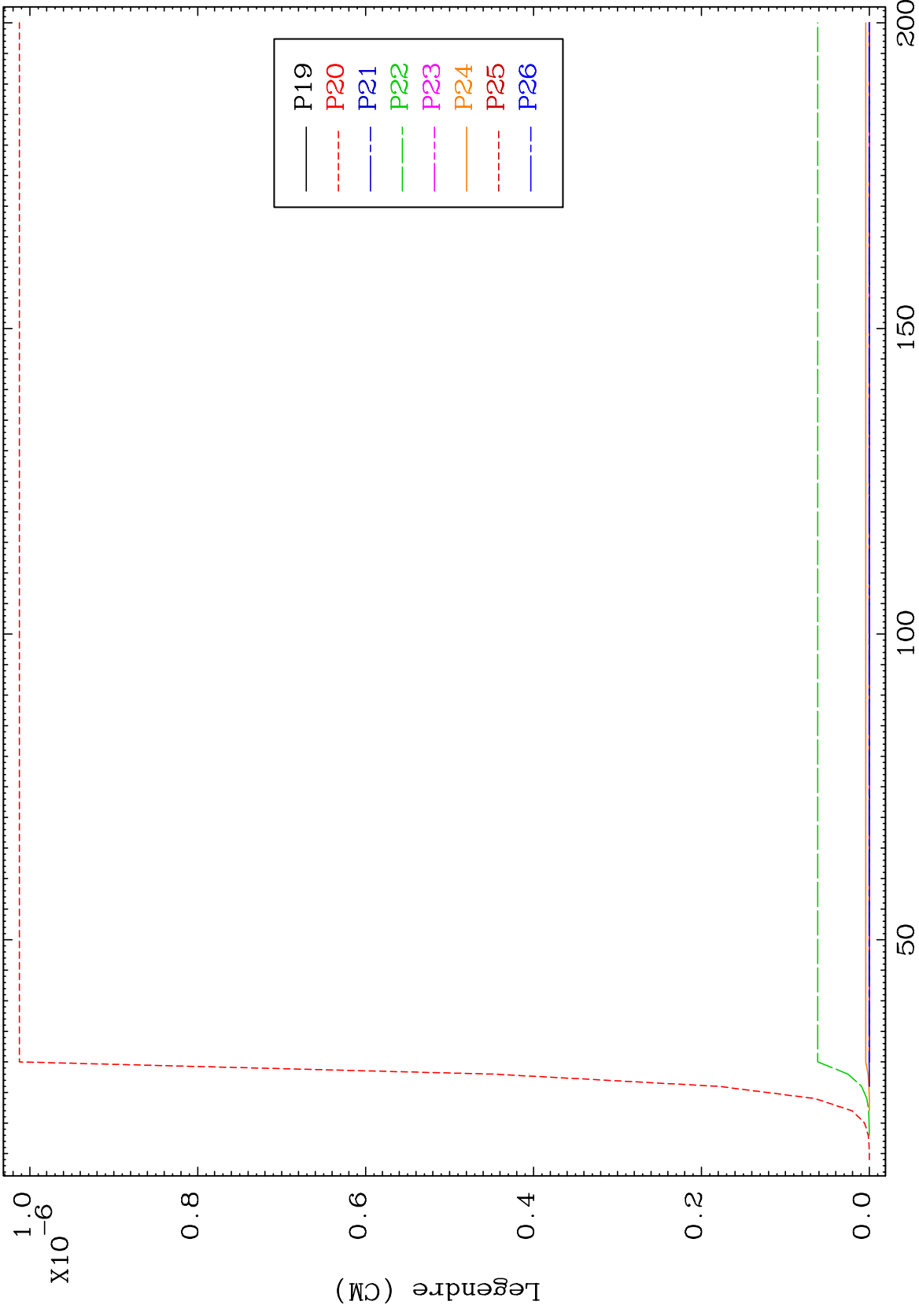
Incident Energy (MeV)

53-I -121

MAT 5307

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

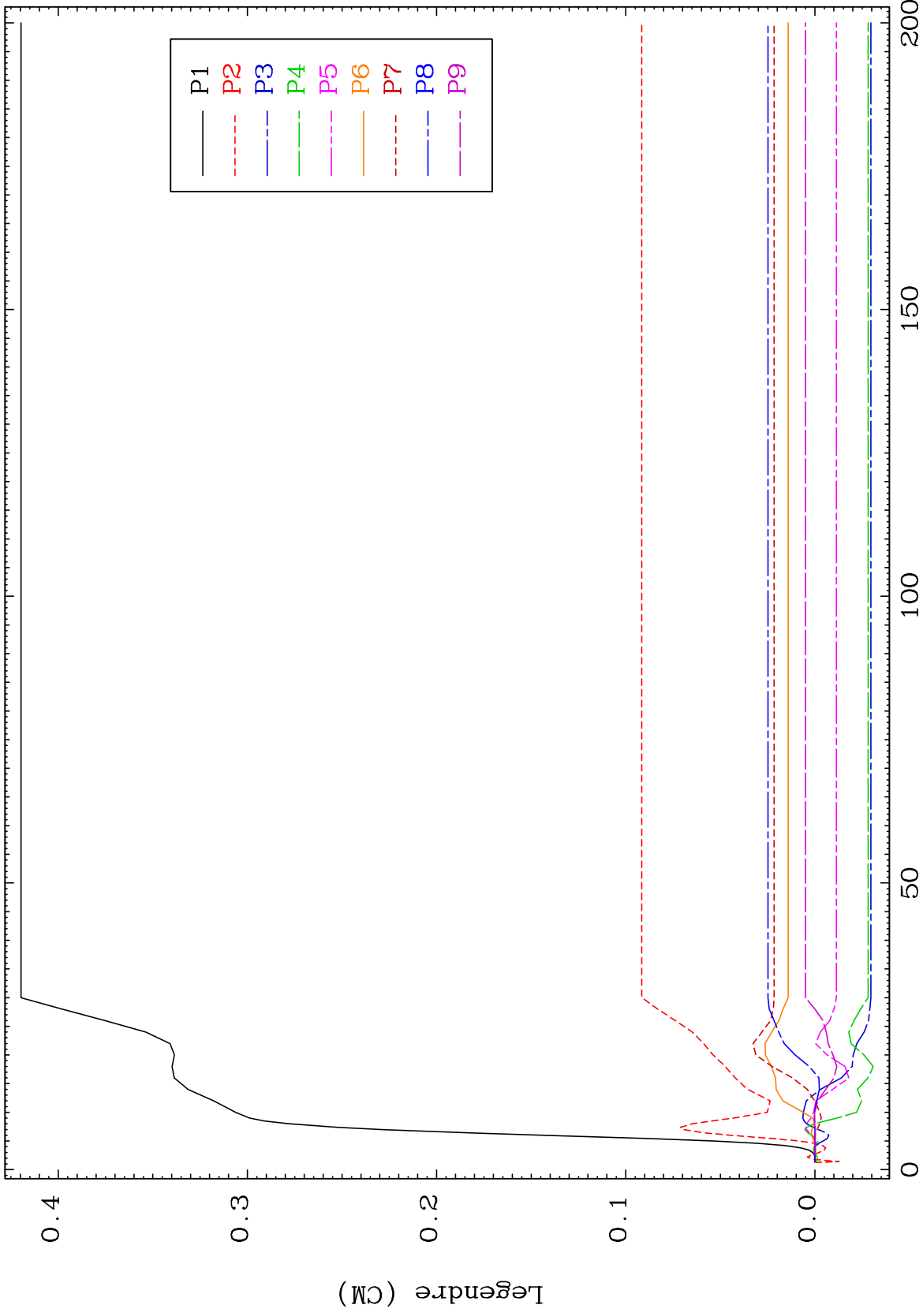
53-I -121



113

Incident Energy (MeV)

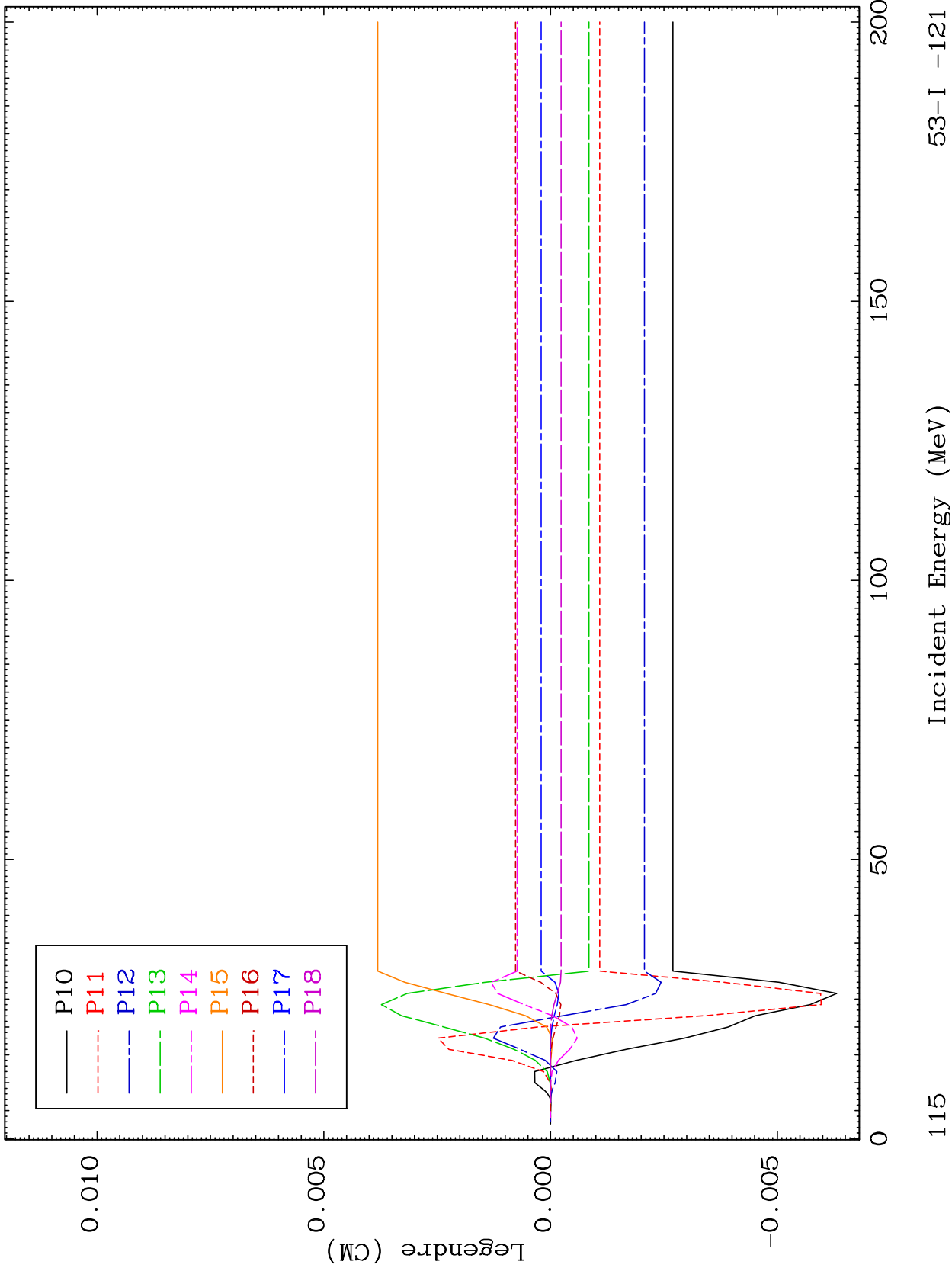
53-I -121



MAT 5307

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

53-I -121



115

Incident Energy (MeV)

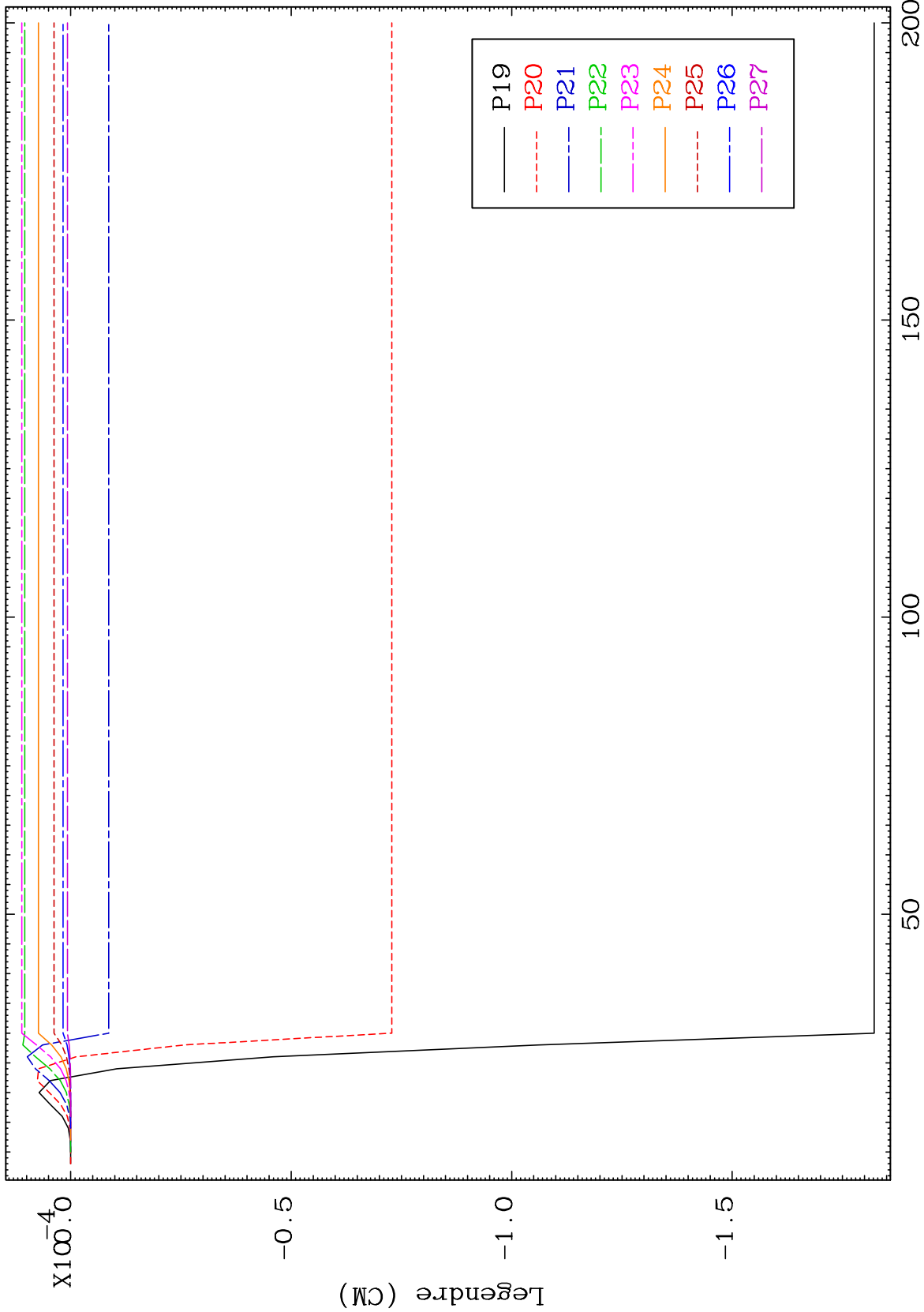
53-I -121

MAT 5307

MT= 79 (n,n') Level

53-I -121

Legendre Coefficients



116

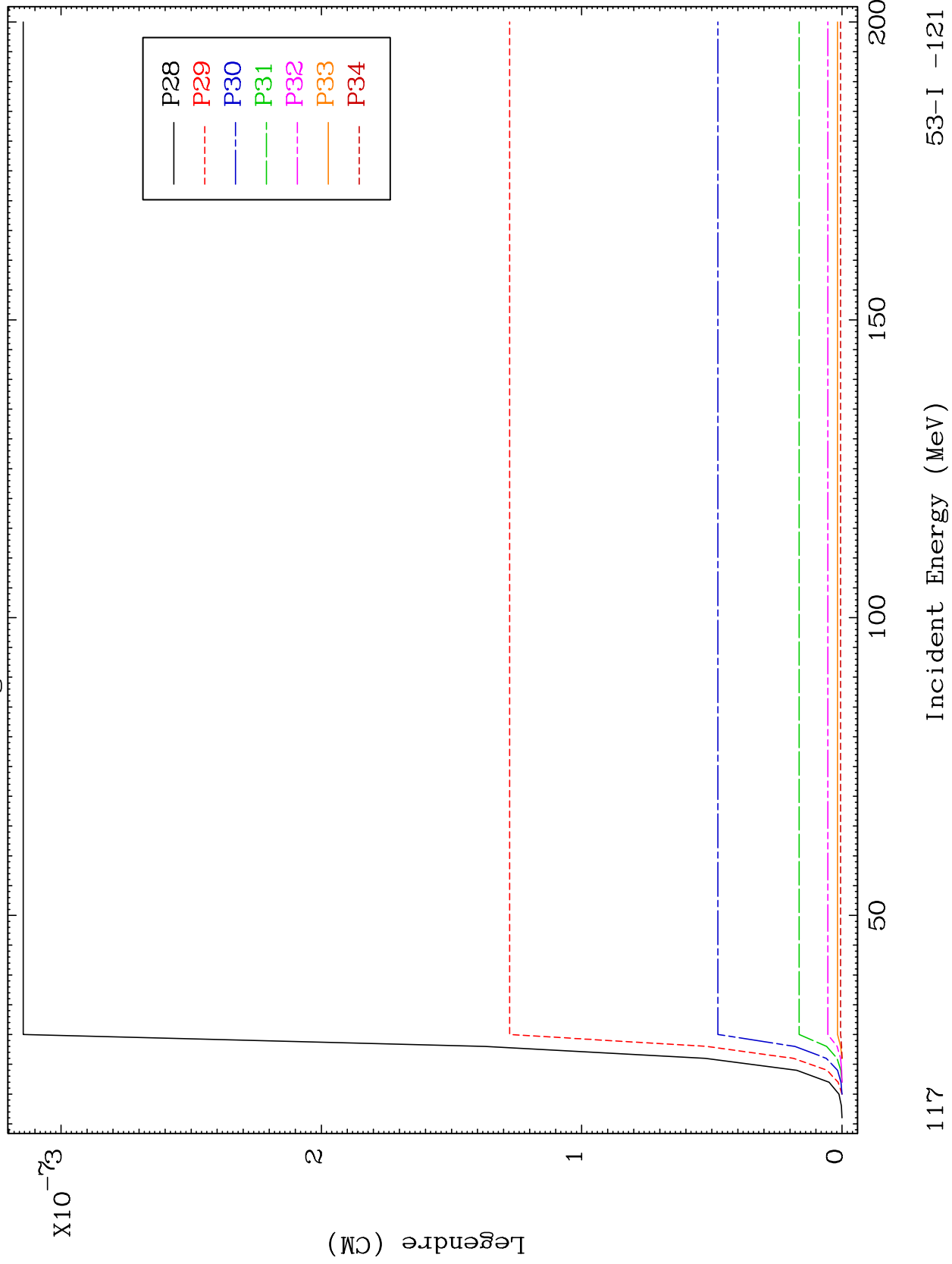
Incident Energy (MeV)

53-I -121

MAT 5307

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

53-I -121



117

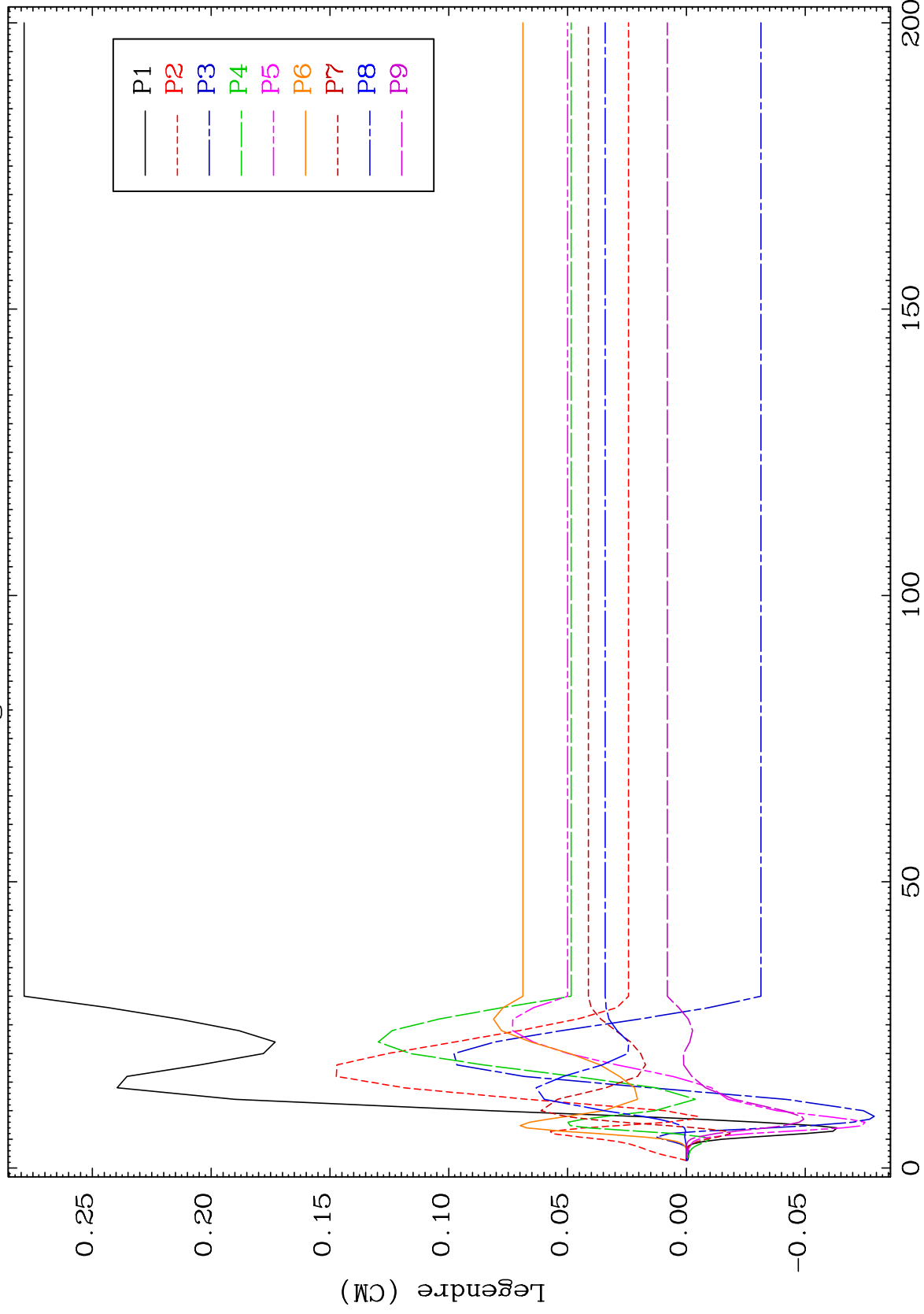
Incident Energy (MeV)

53-I -121

MAT 5307

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

53-I -121



53-I -121

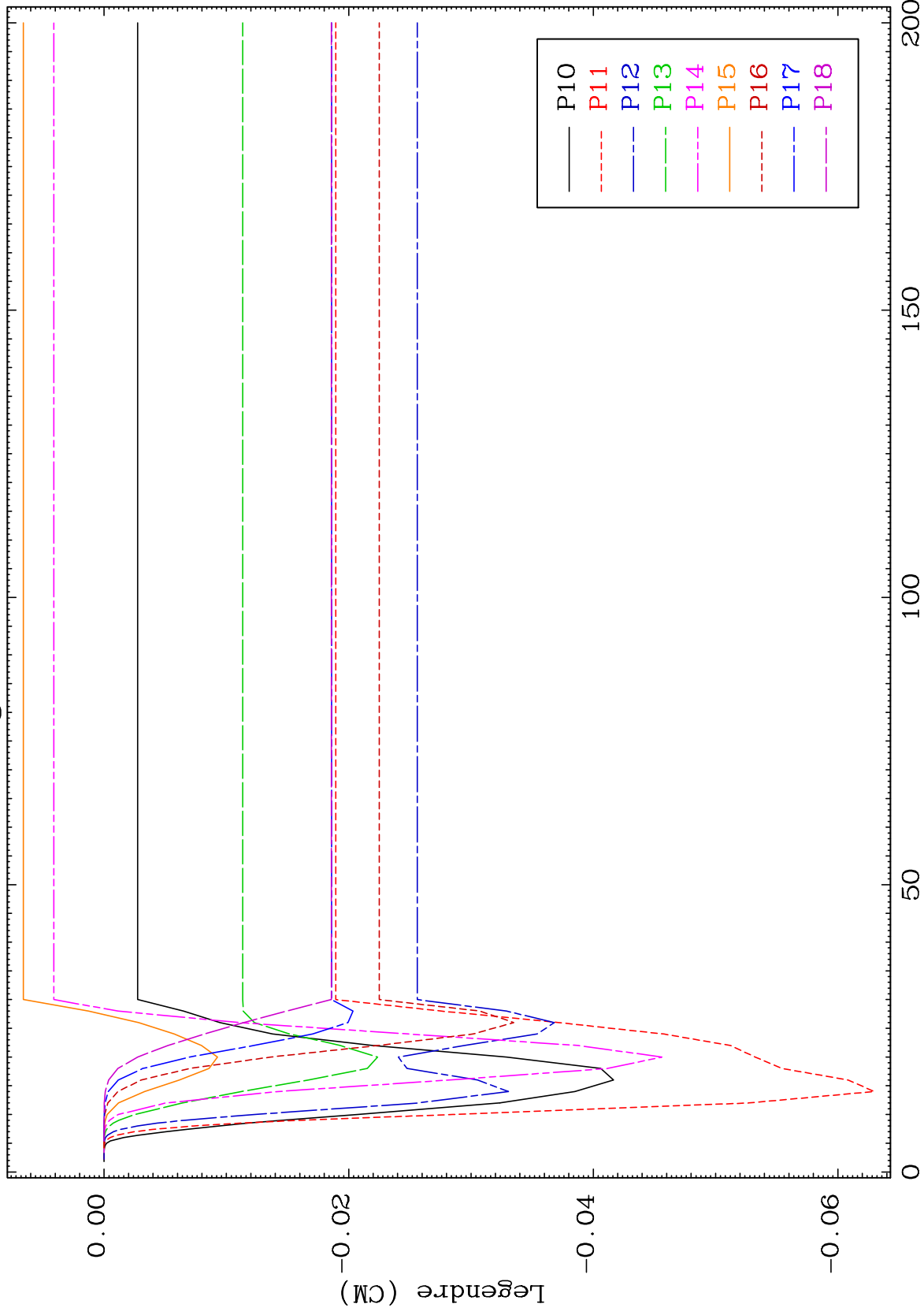
Incident Energy (MeV)

118

MAT 5307

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

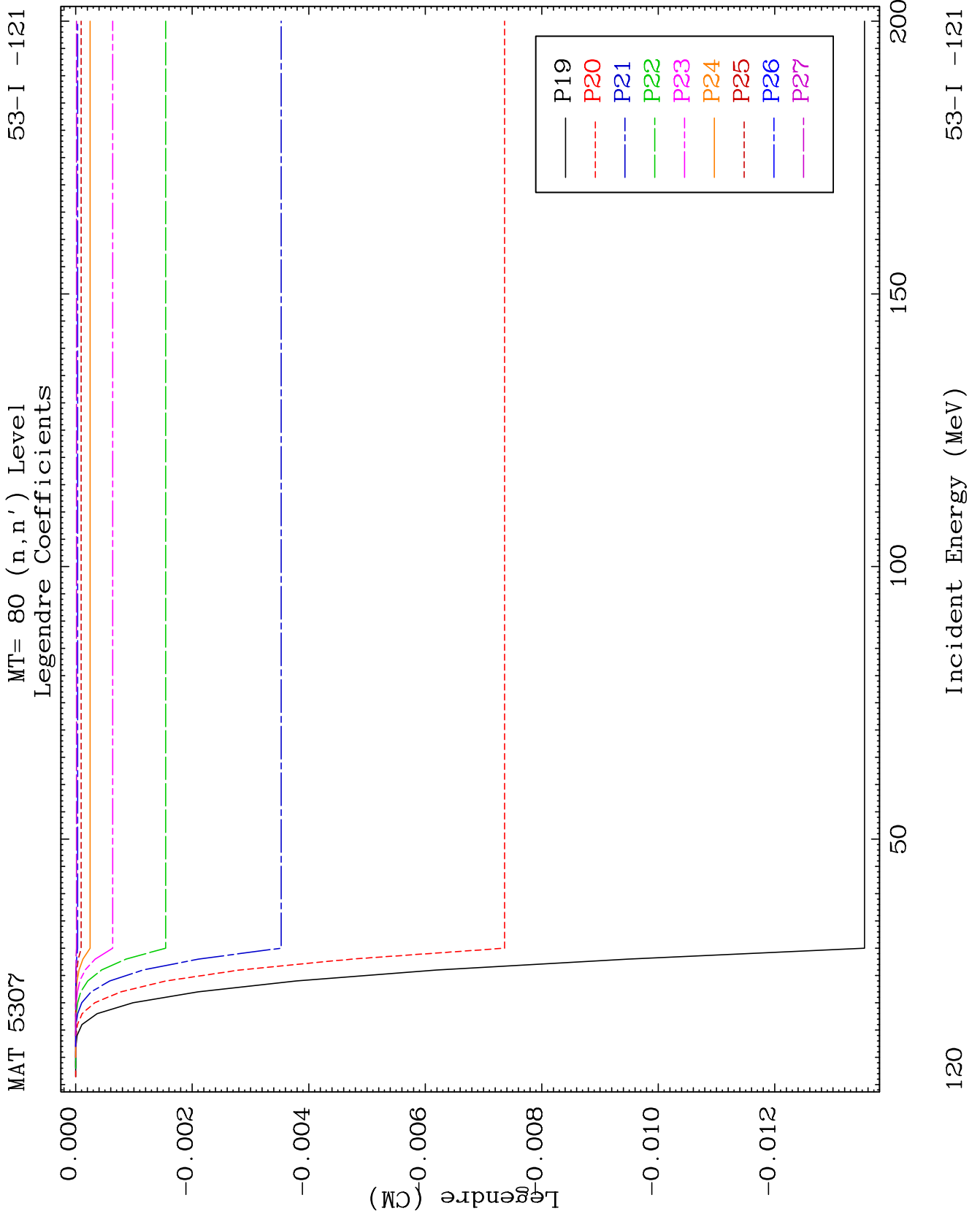
53-I -121

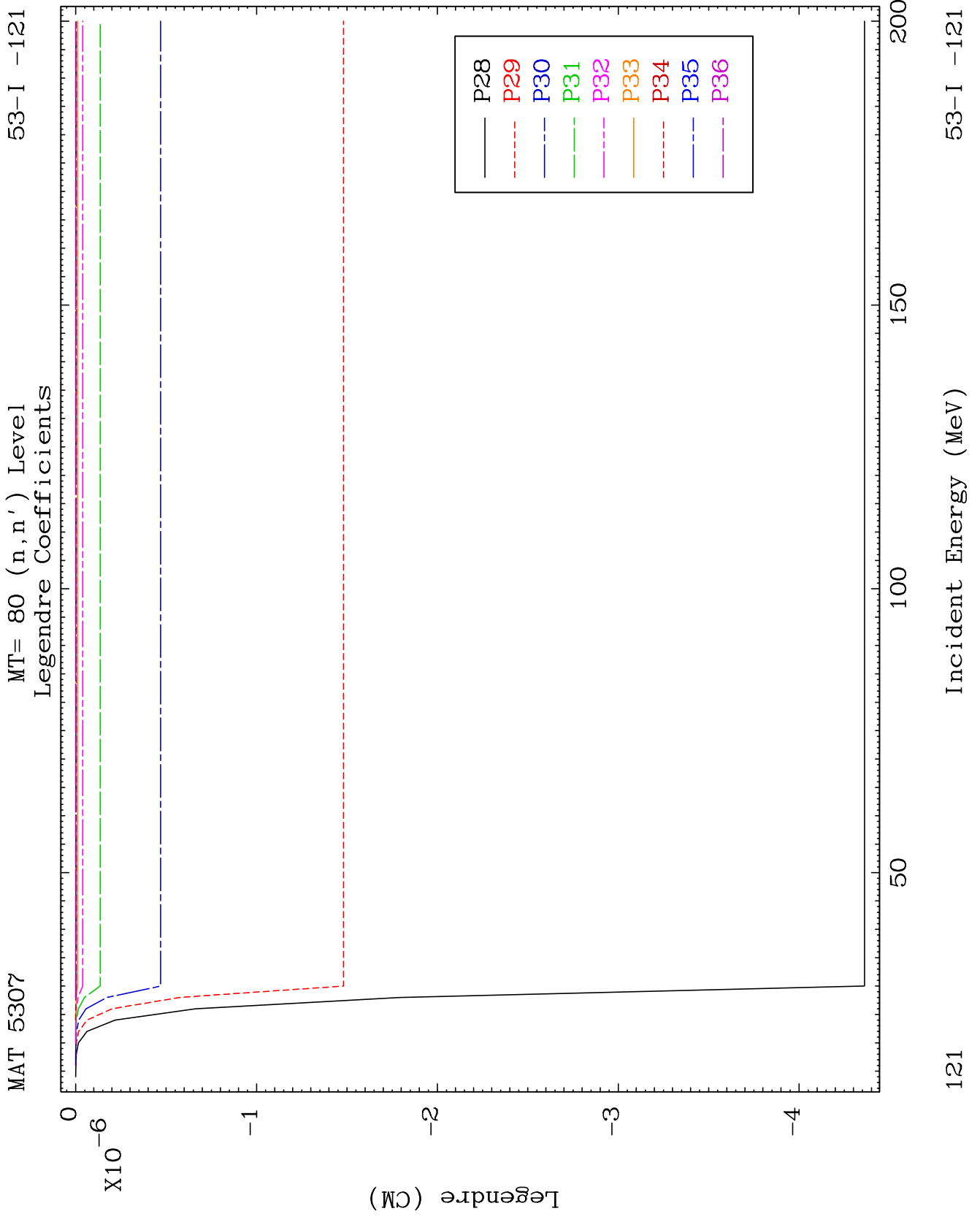


119

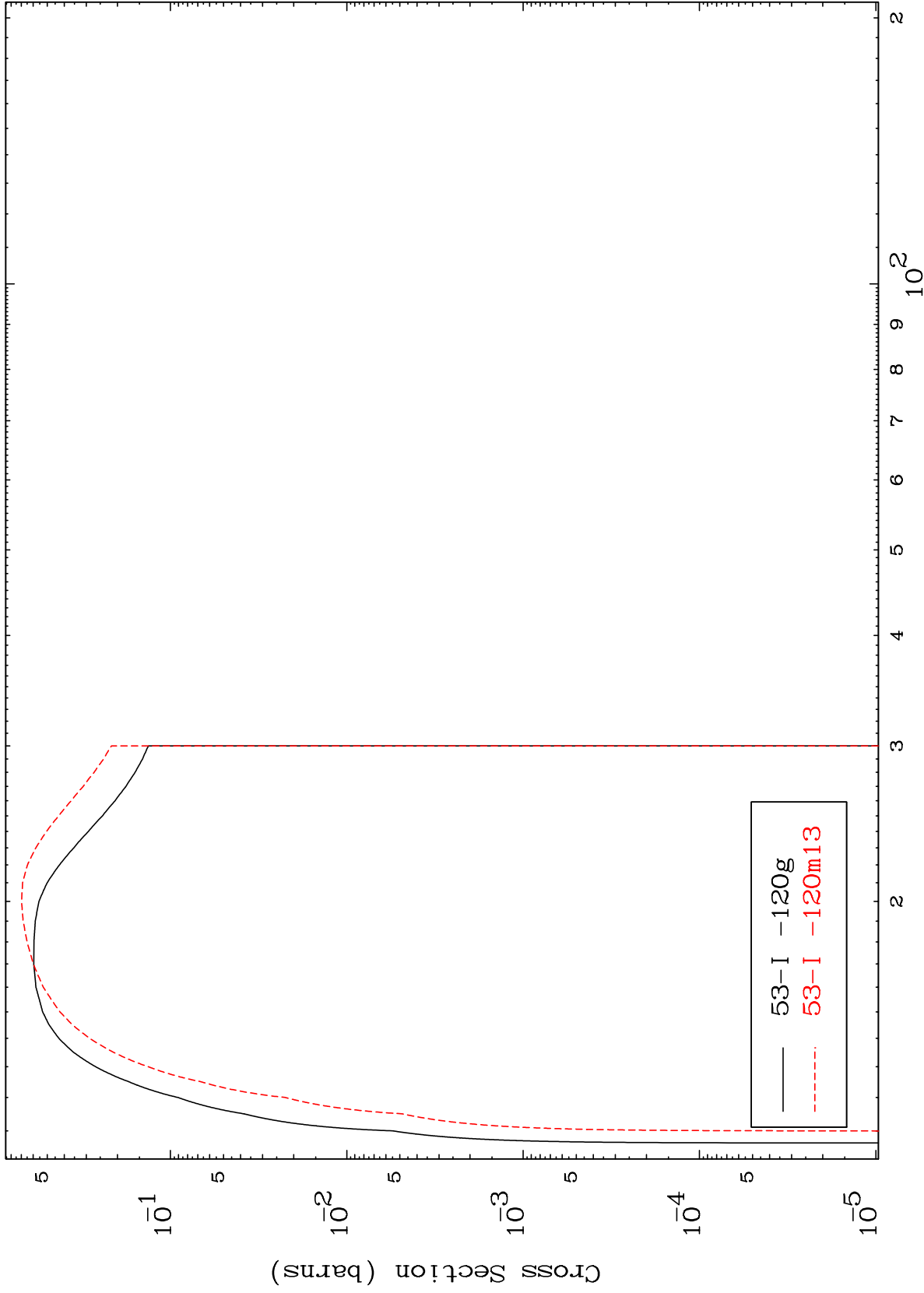
Incident Energy (MeV)

53-I -121





Radionuclide Production Cross Section (n,2n)

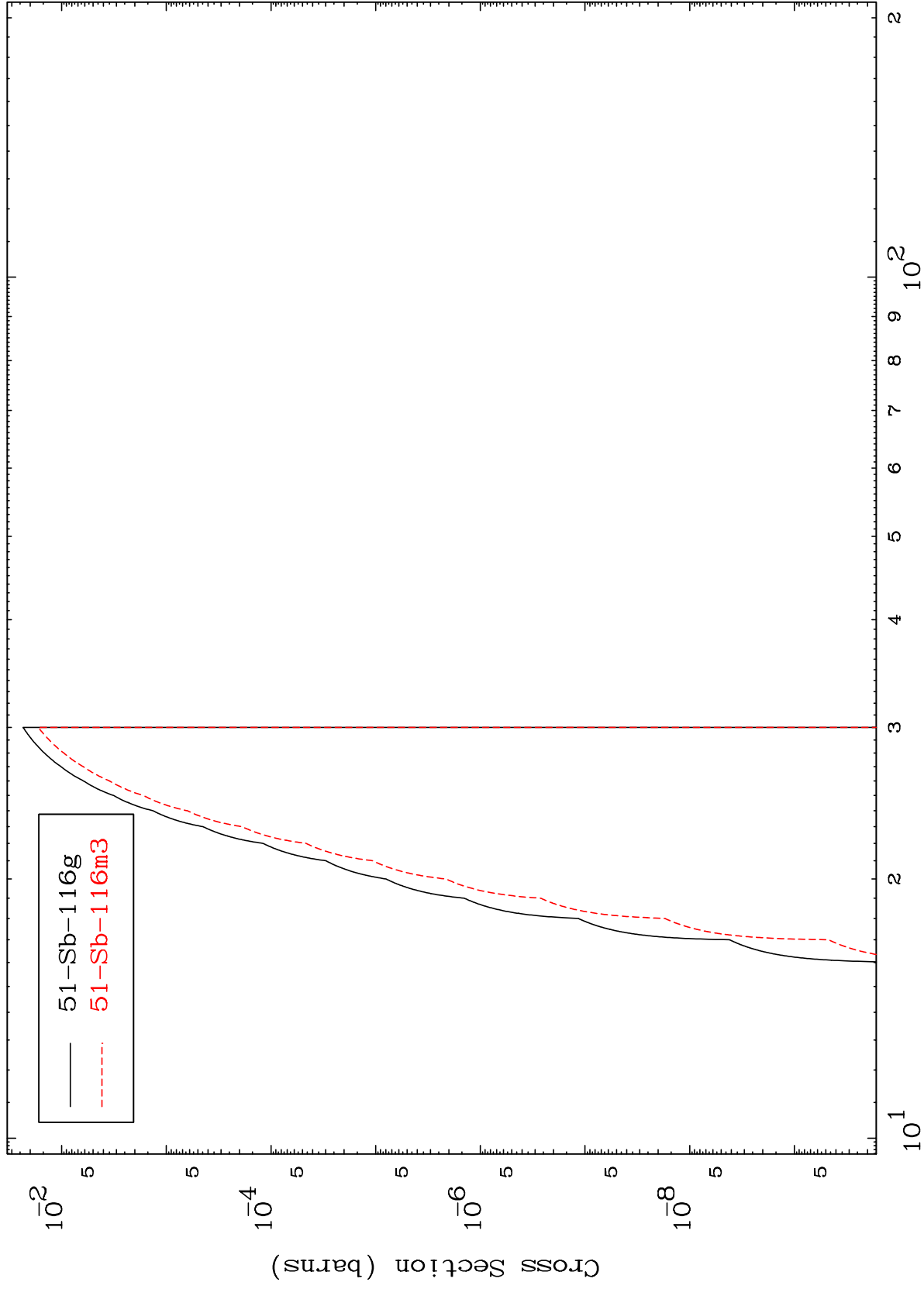


MAT 5307

(n,2n)  $\alpha$

53-I -121

Radionuclide Production Cross Section

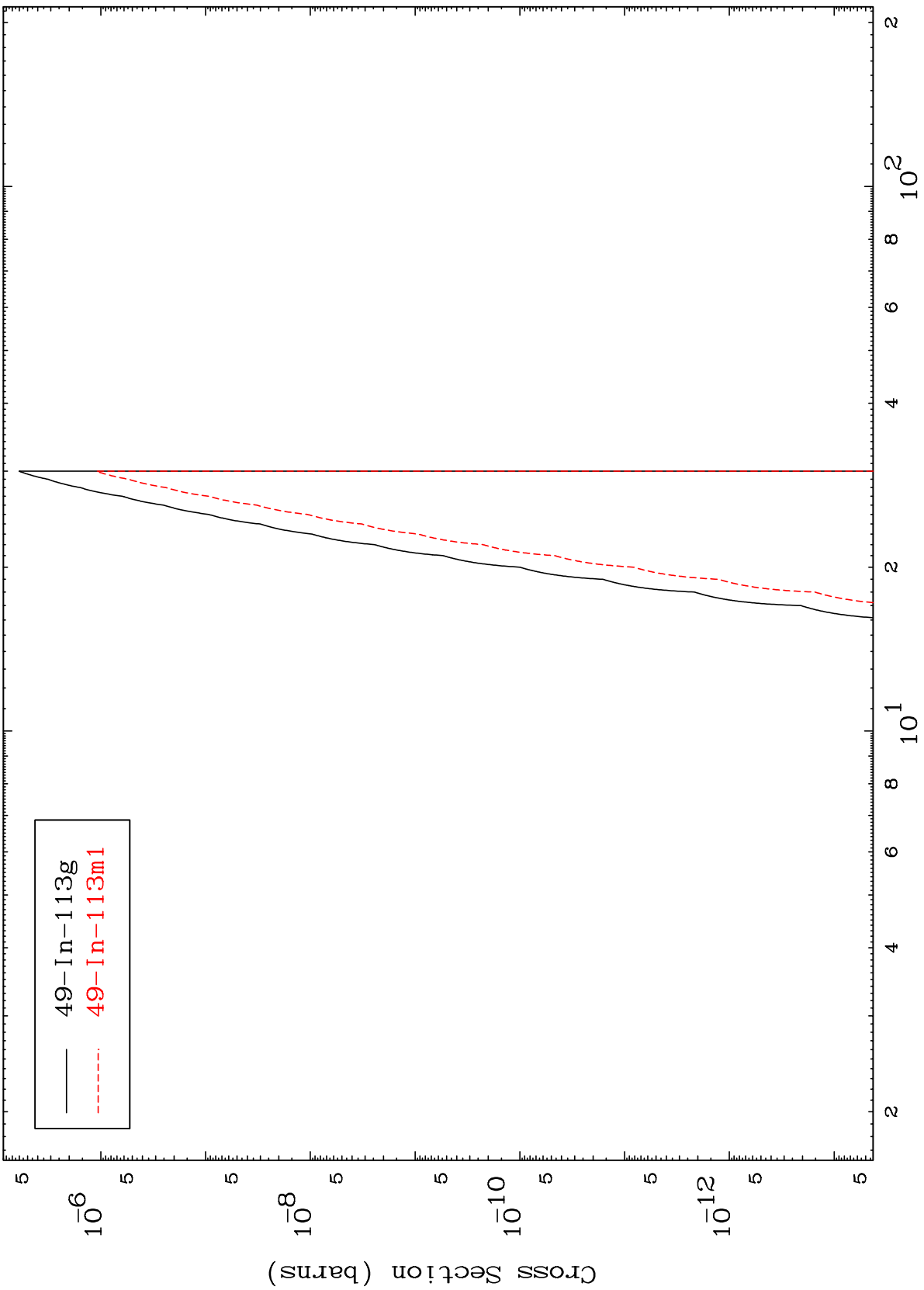


Incident Energy (MeV)

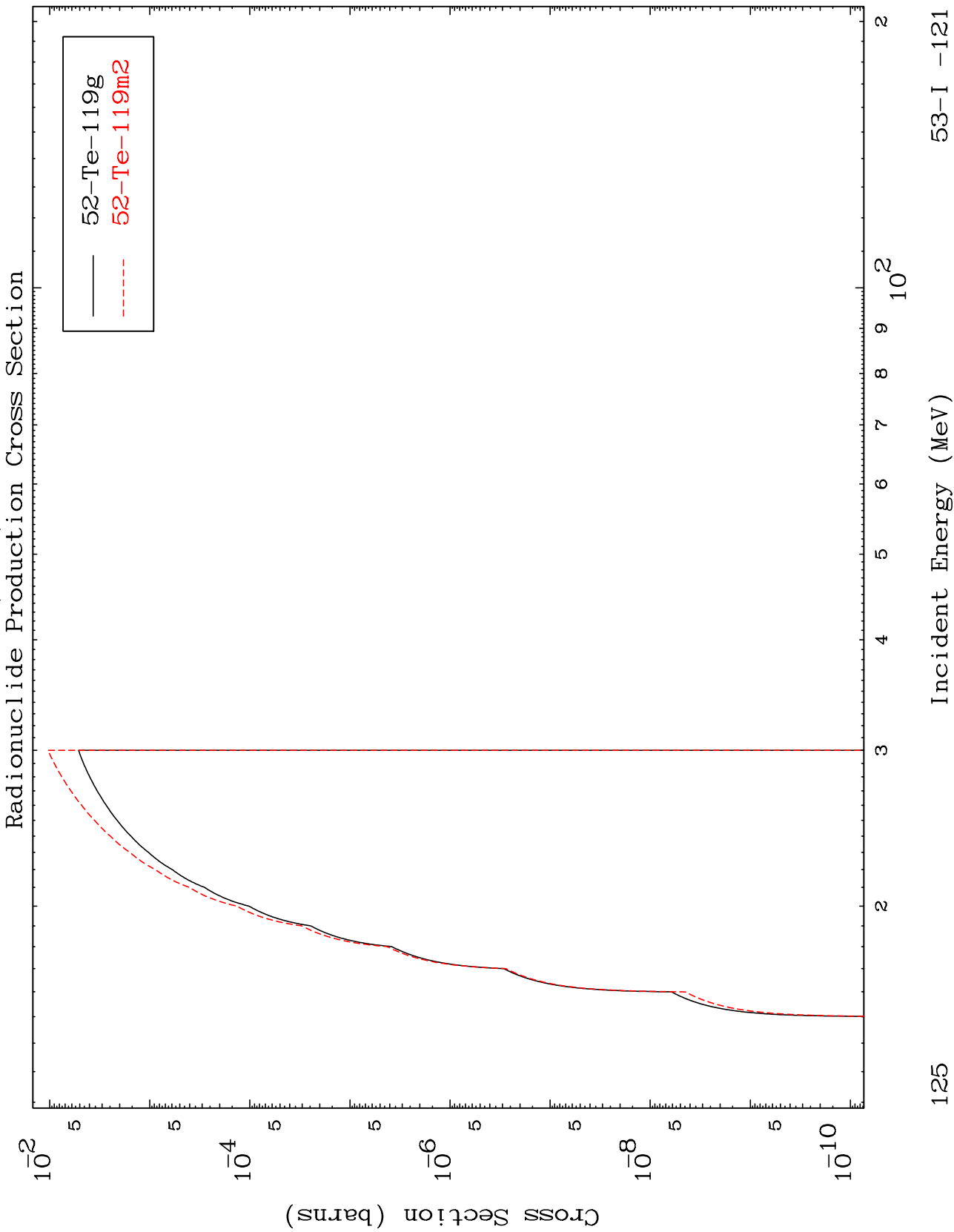
53-I -121

123

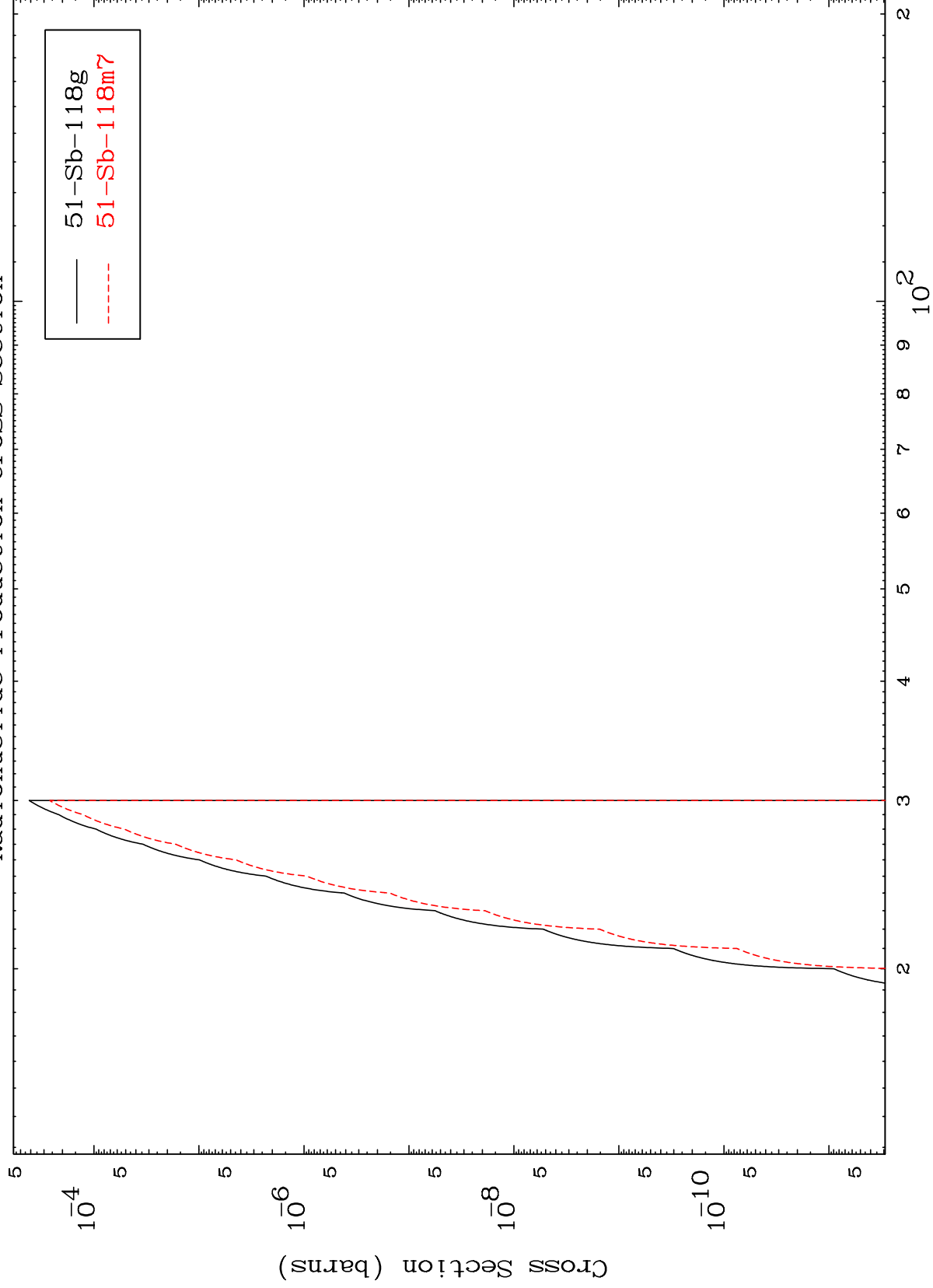
Radionuclide Production Cross Section



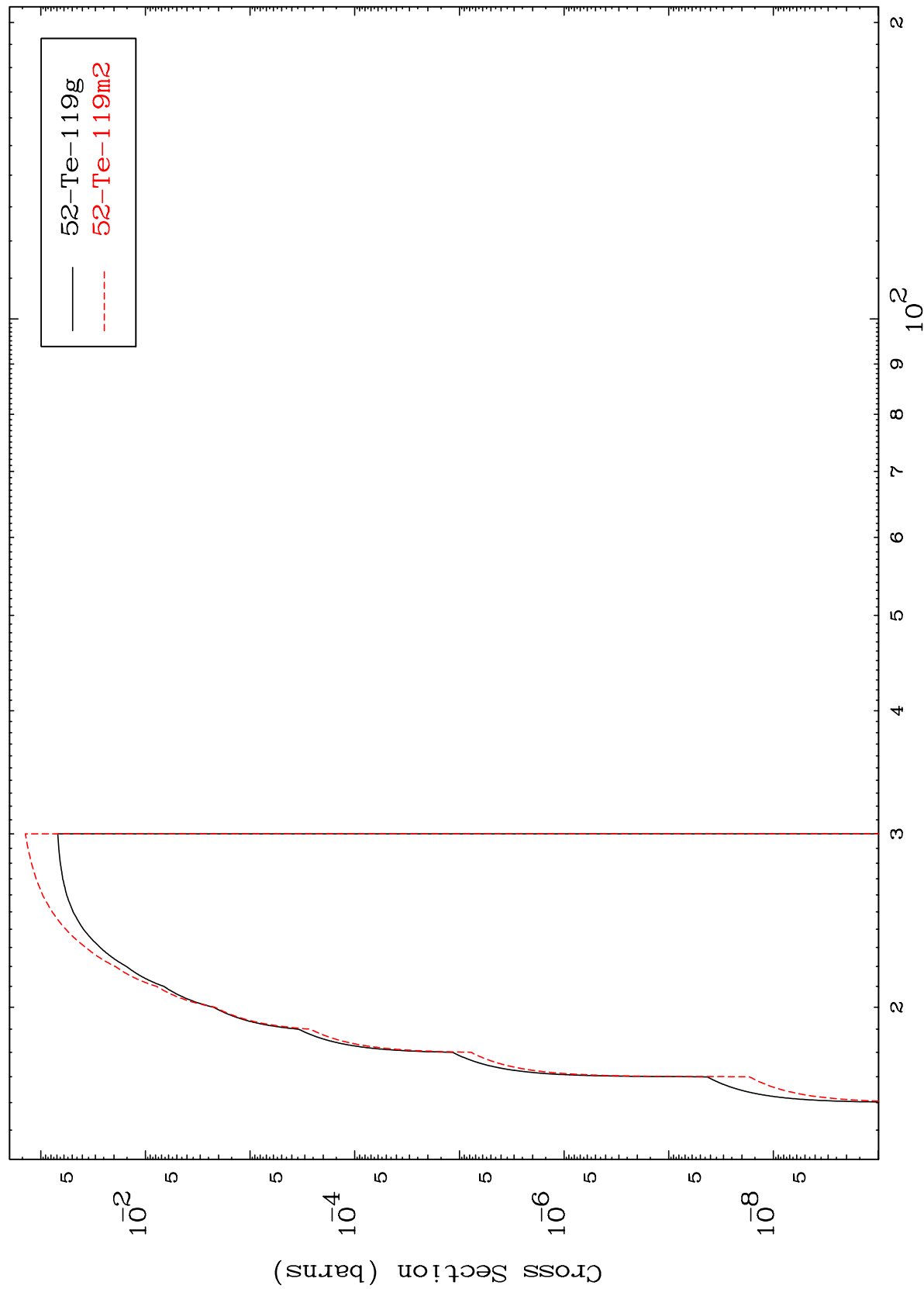
— 49-In-113g  
- - - 49-In-113m1



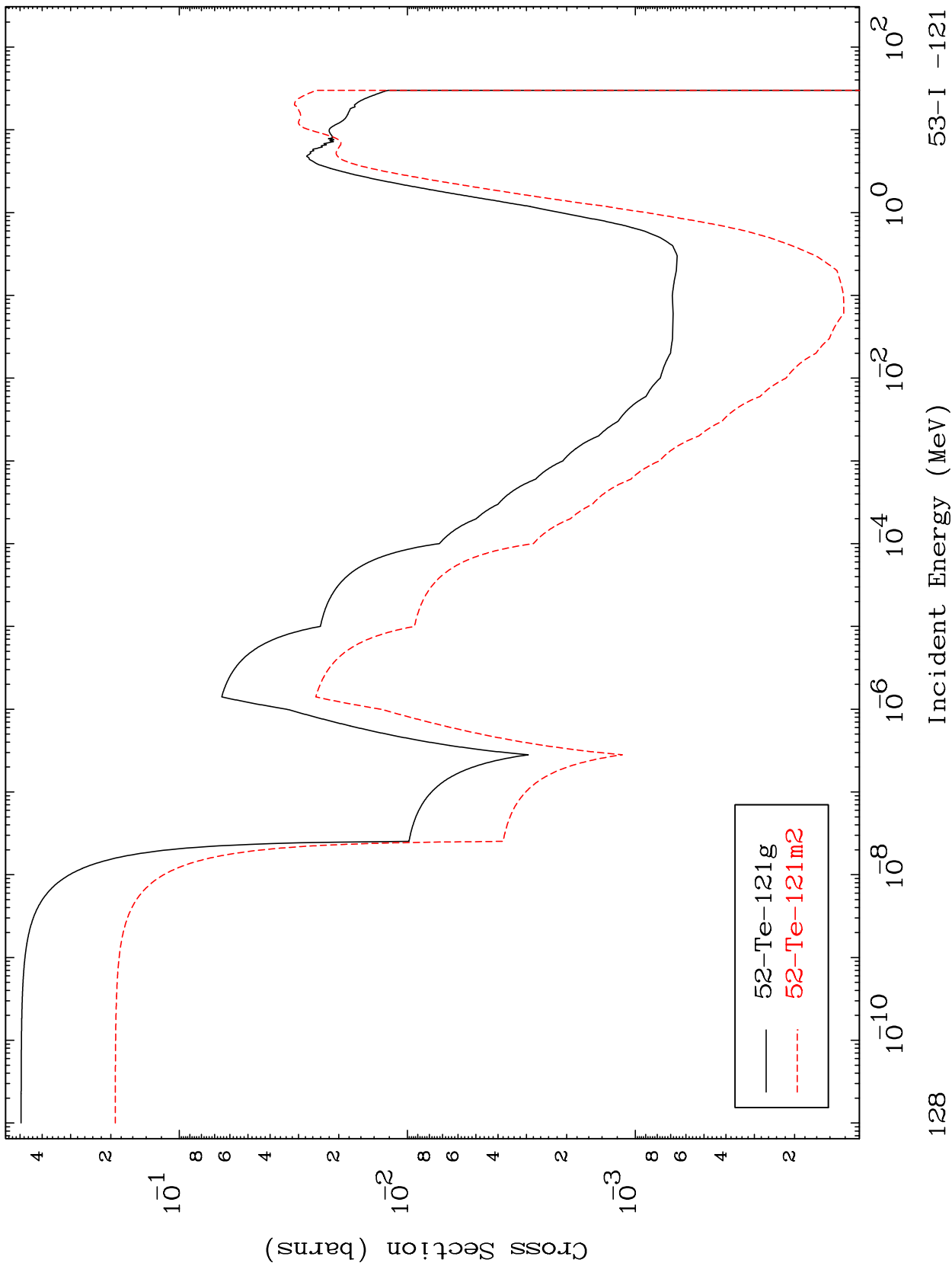
Radionuclide Production Cross Section



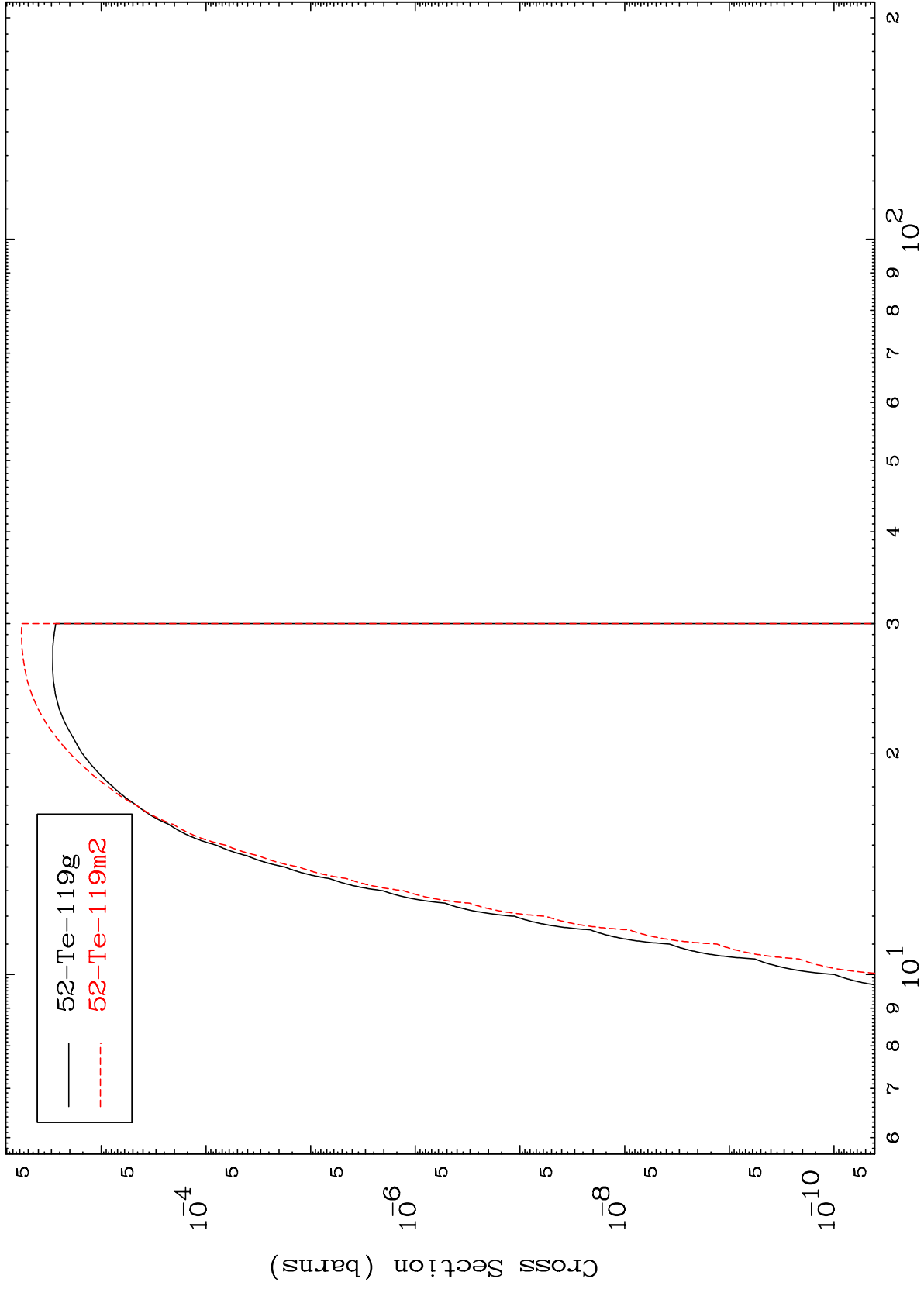
Radionuclide Production Cross Section



Radionuclide Production Cross Section (n,p)



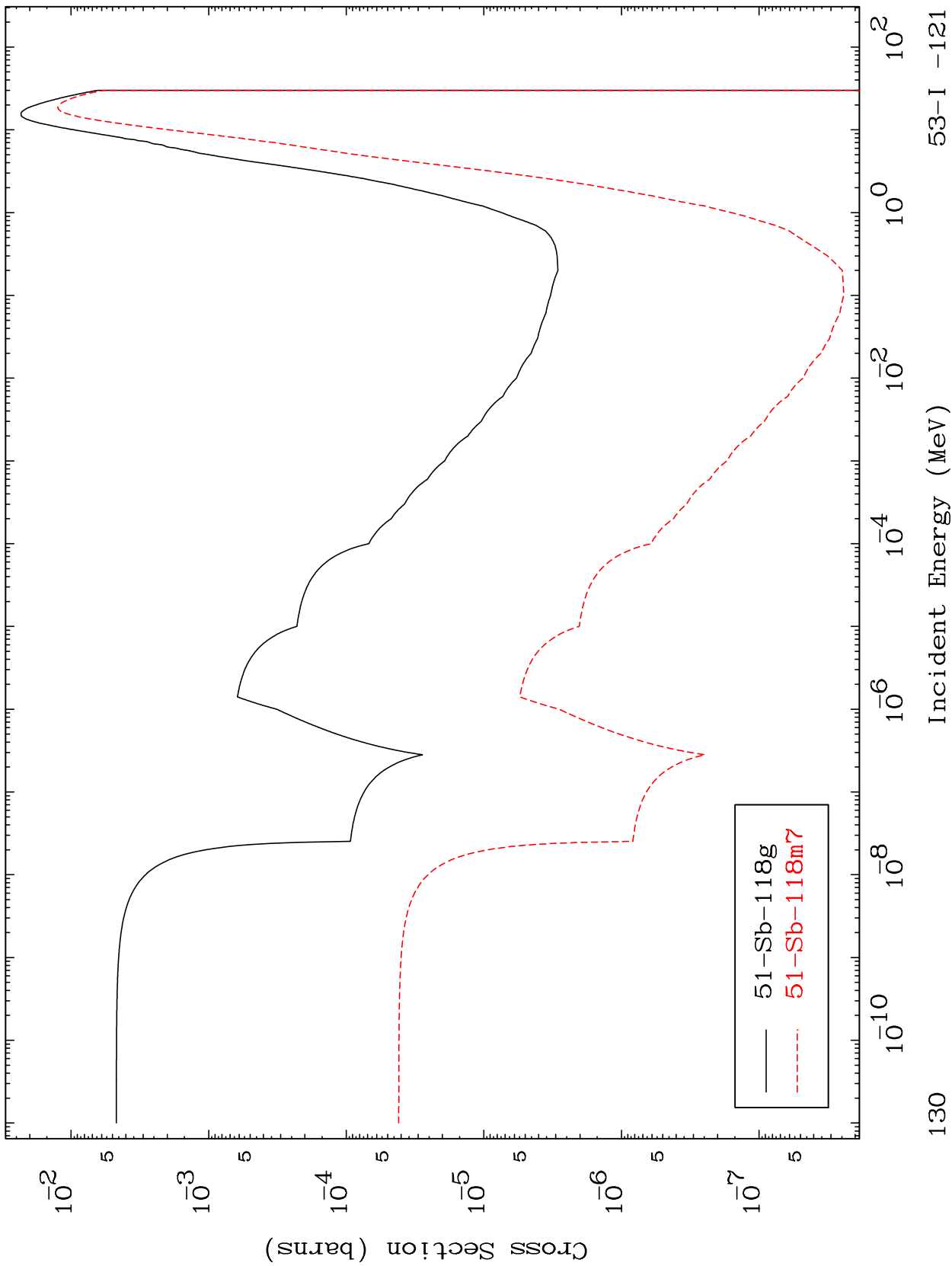
(n,t)  
Radionuclide Production Cross Section



MAT 5307

53-I -121

Radionuclide Production Cross Section

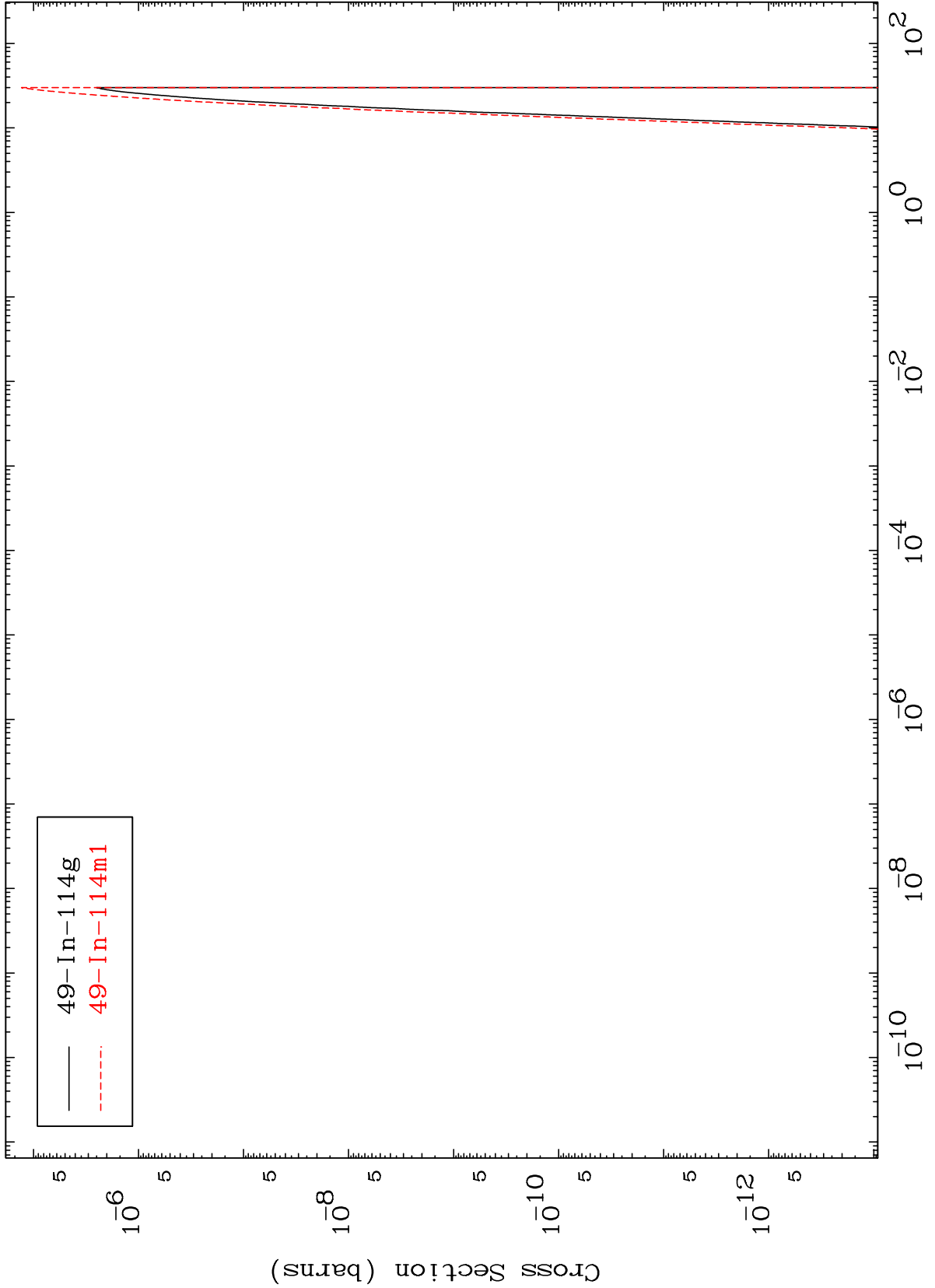


MAT 5307

(n,2α)

53-I -121

Radionuclide Production Cross Section

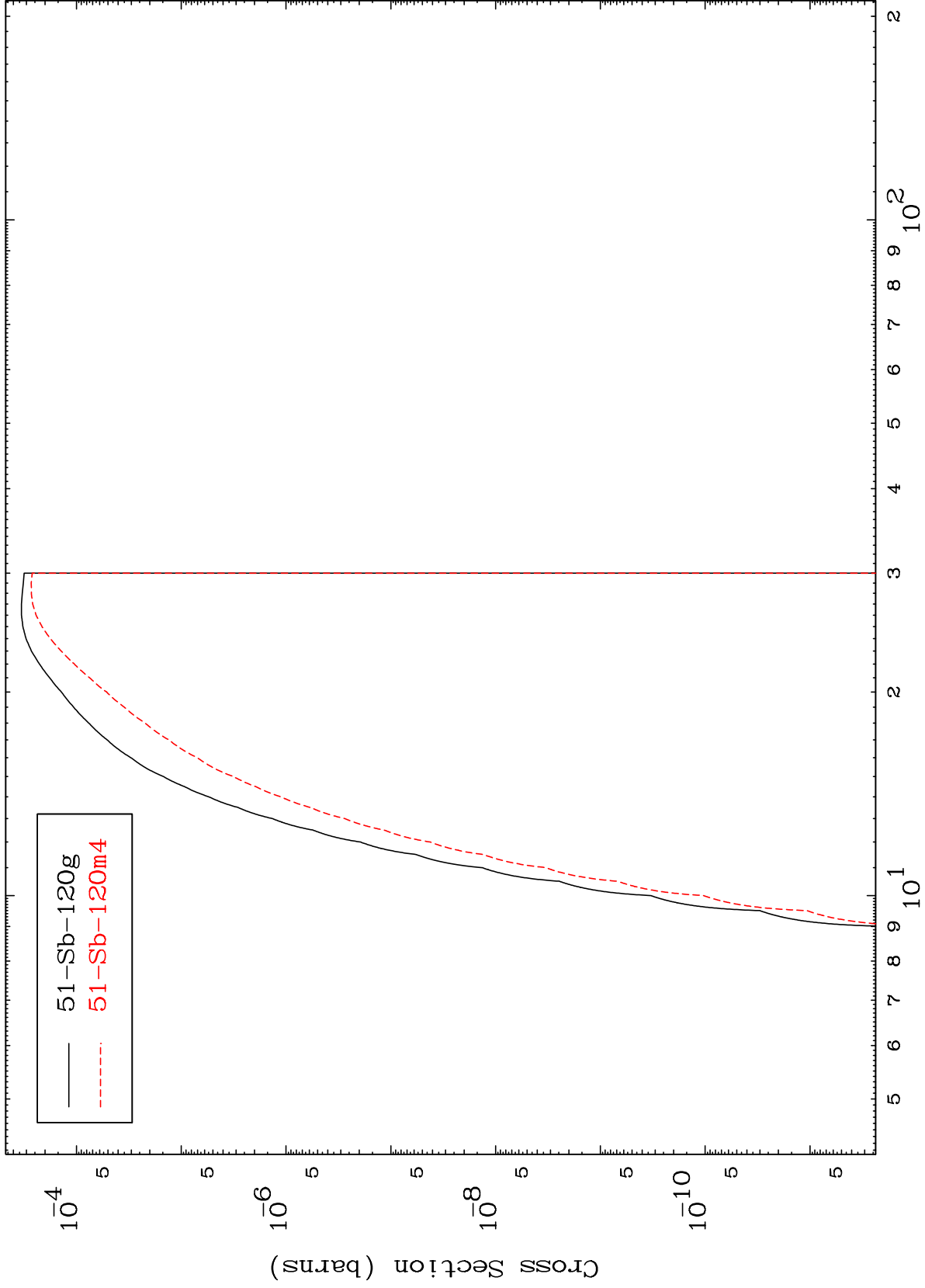


131

Incident Energy (MeV)

53-I -121

(n,2p)  
Radionuclide Production Cross Section

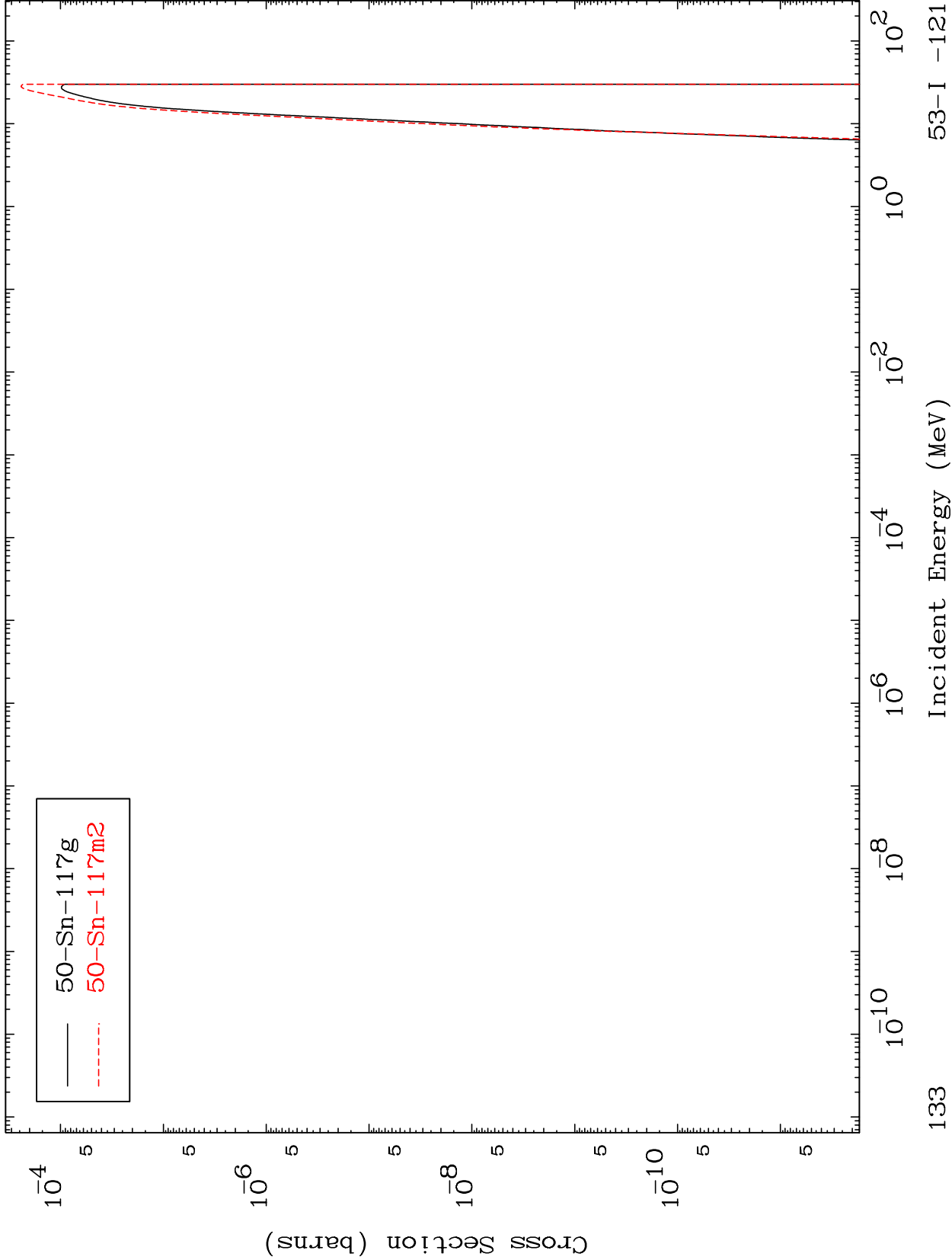


MAT 5307

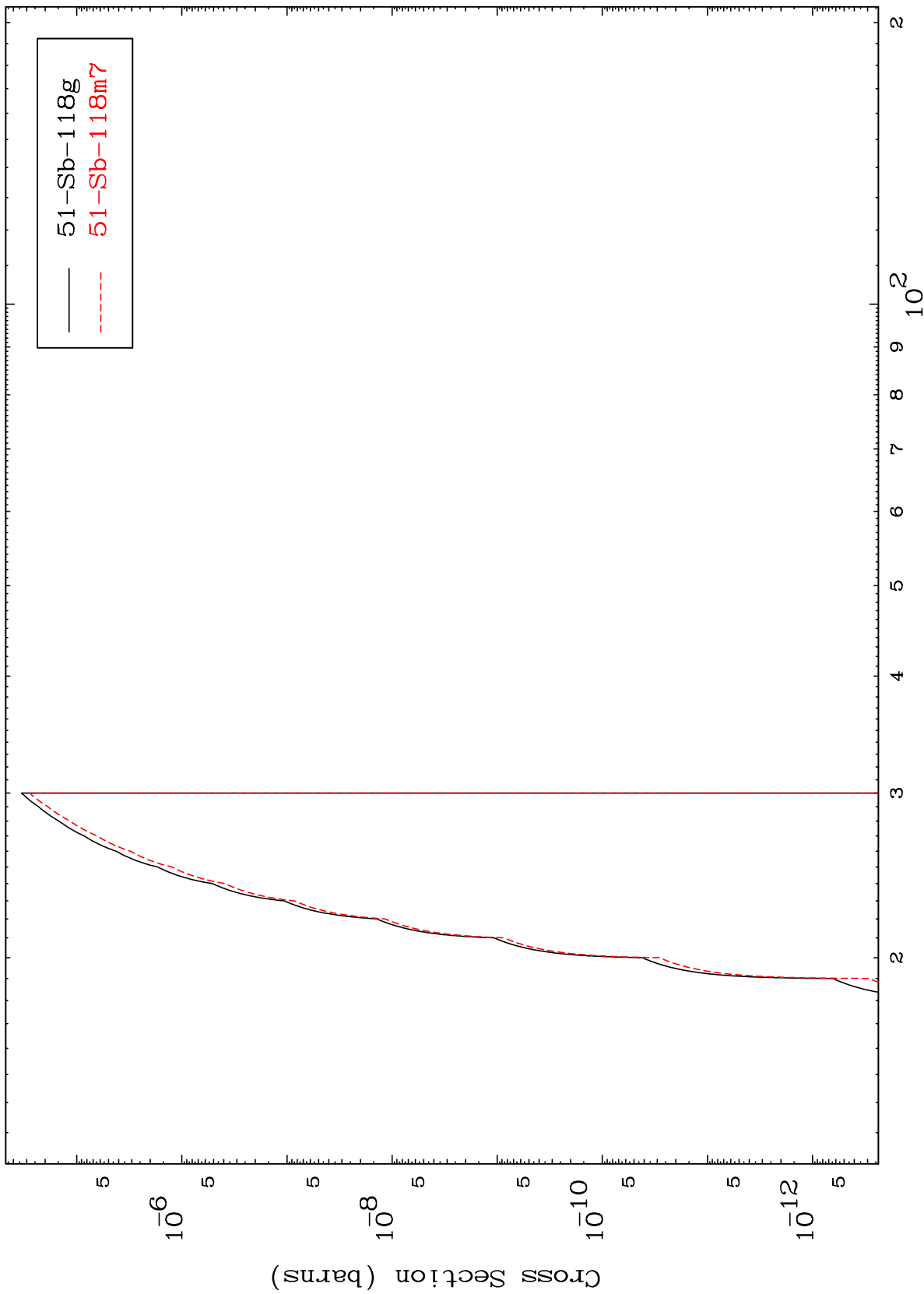
(n,p)  $\alpha$

53-I -121

Radionuclide Production Cross Section



Radionuclide Production Cross Section



51-Sb-118g  
51-Sb-118m7