

Program EVALPLOT  
(Version 2018-1)

by

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(Present Contact Information)

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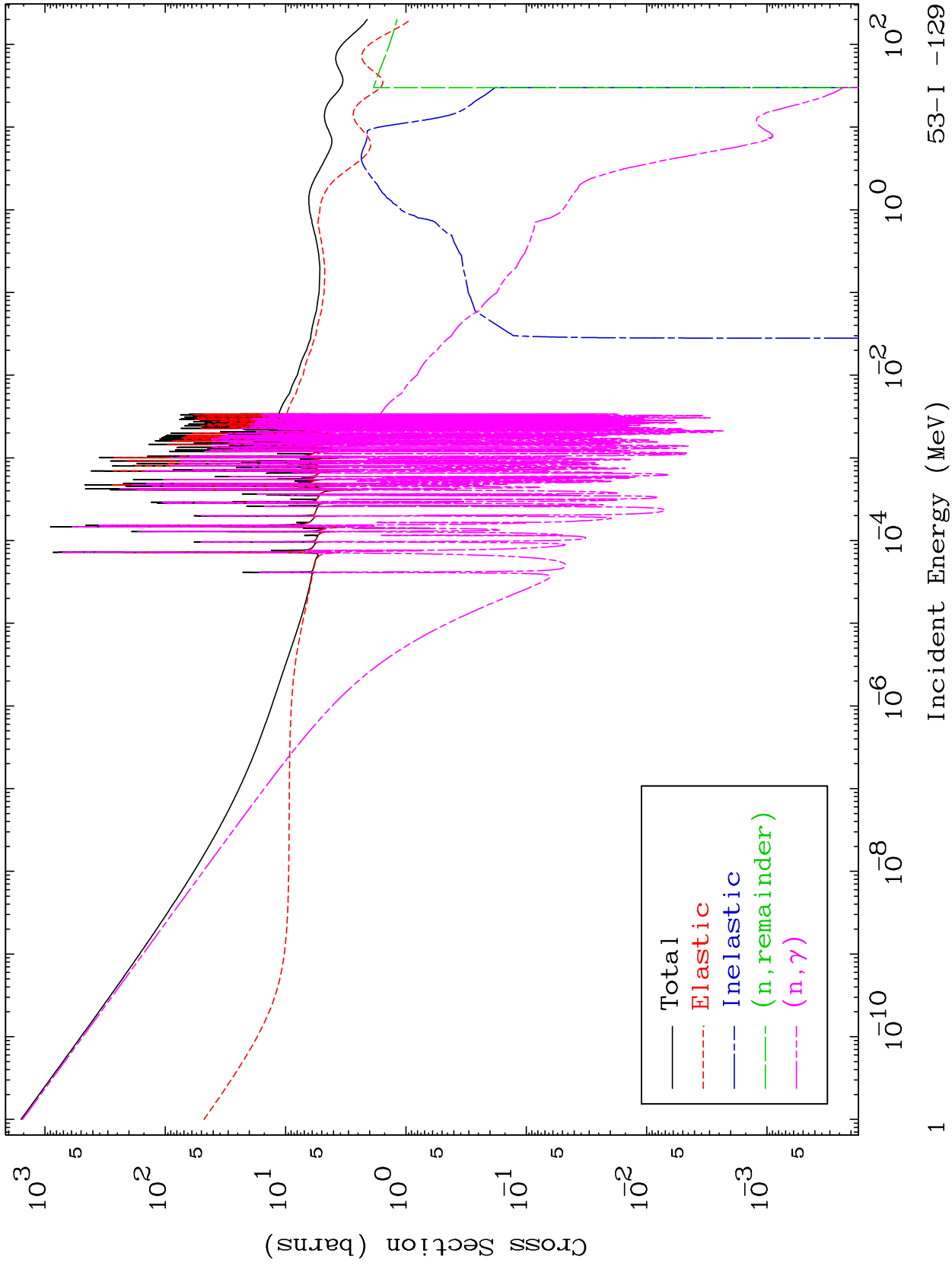
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

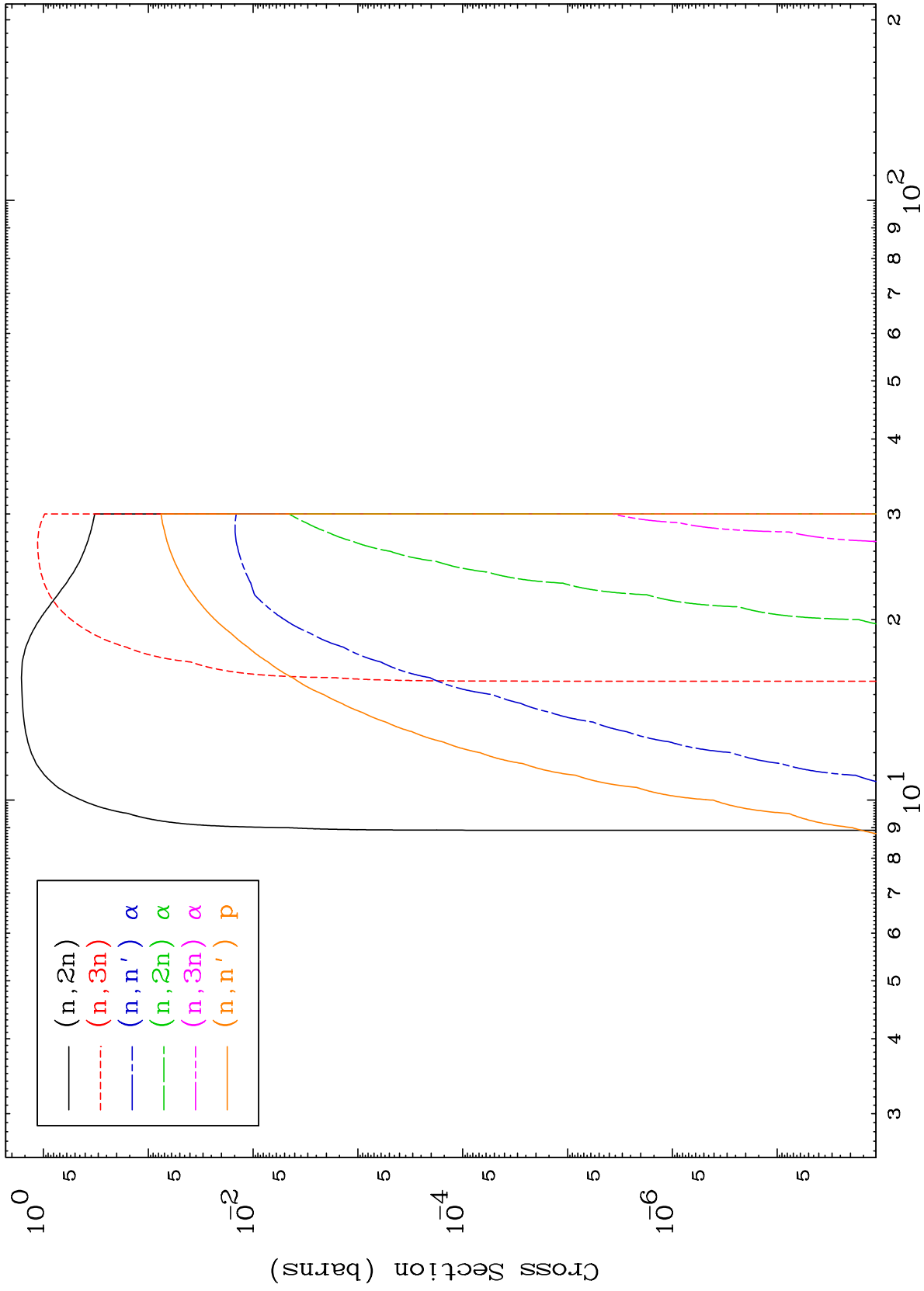
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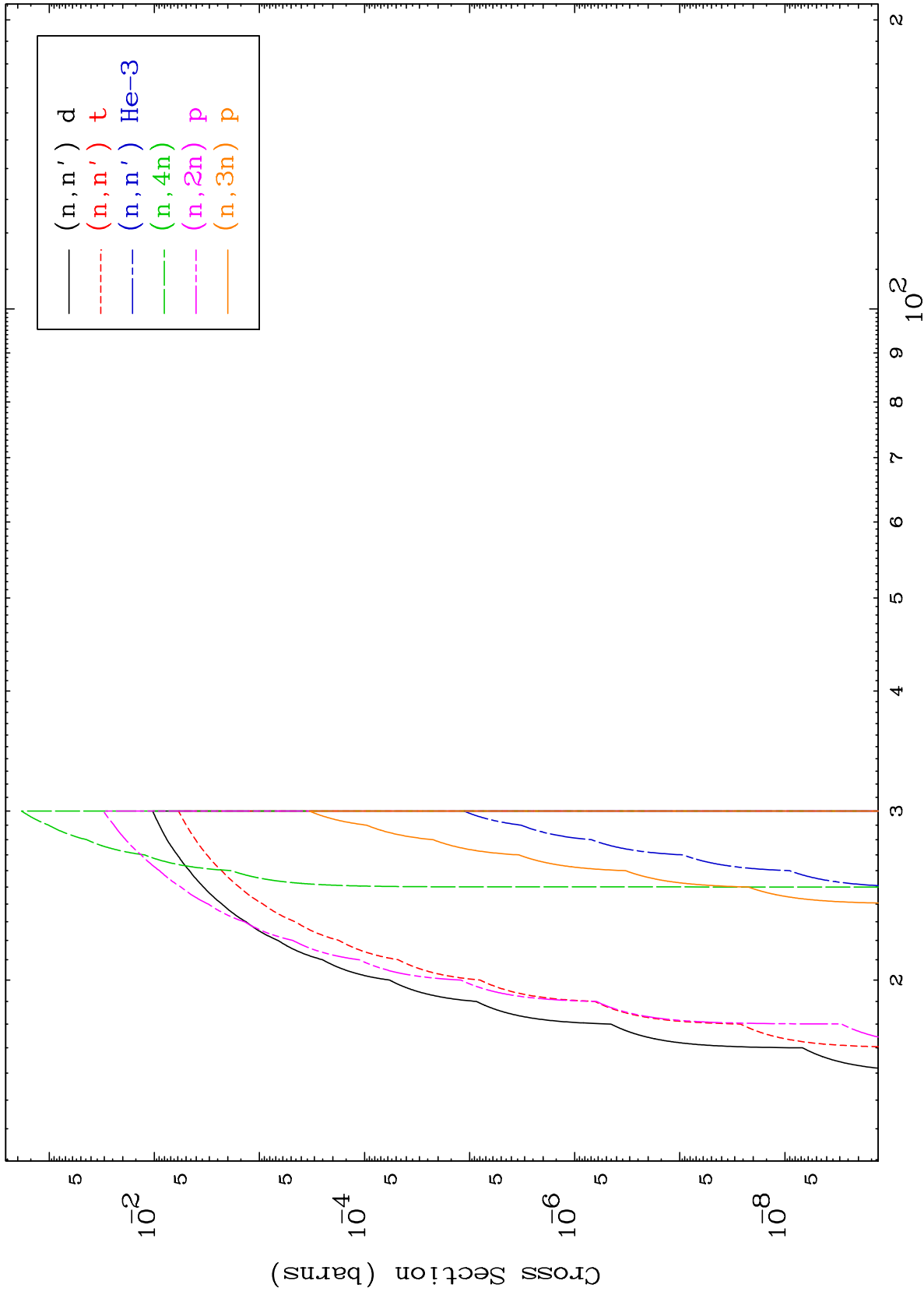
MAT 5331

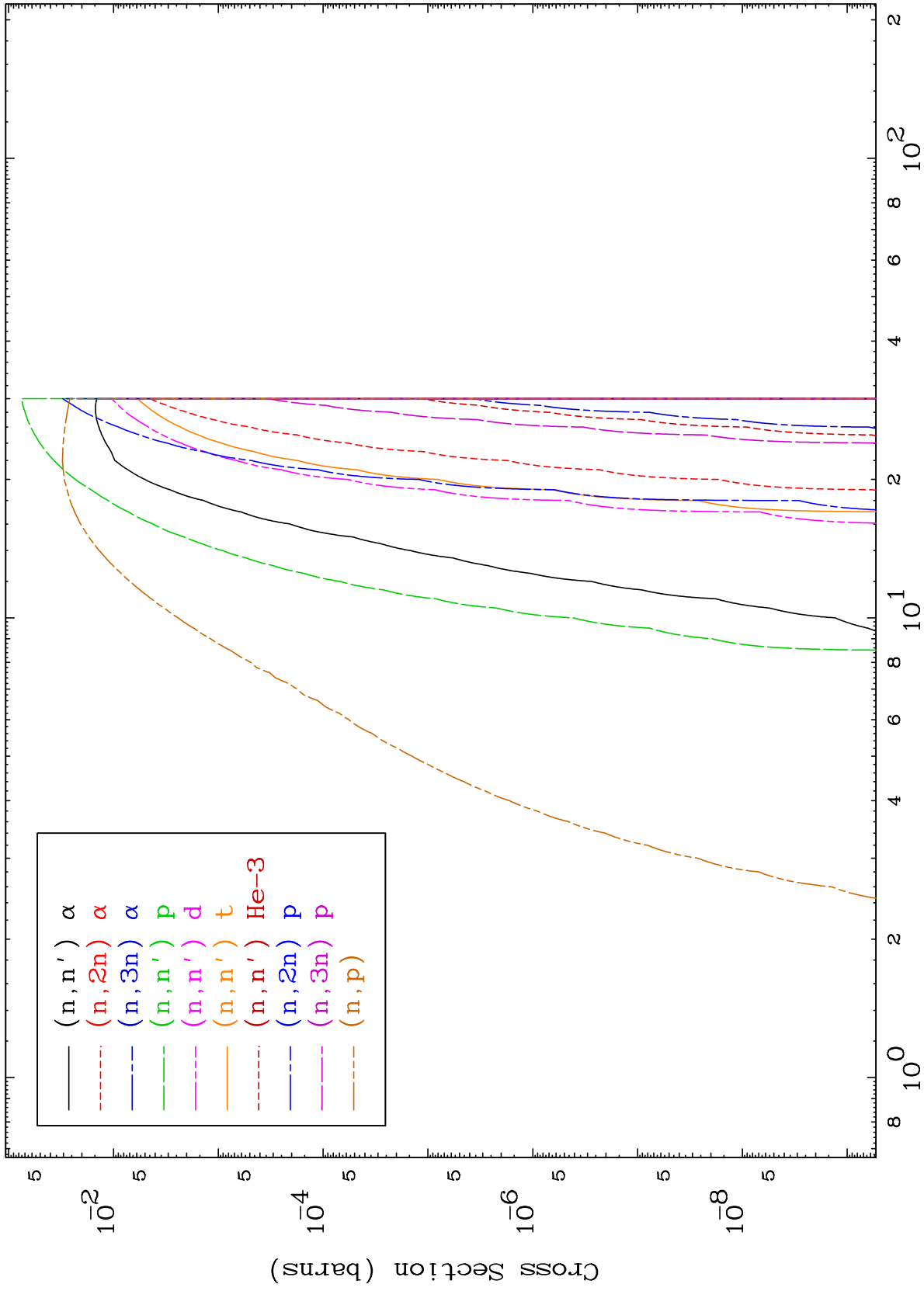
Major  
293 Kelvin Cross Sections

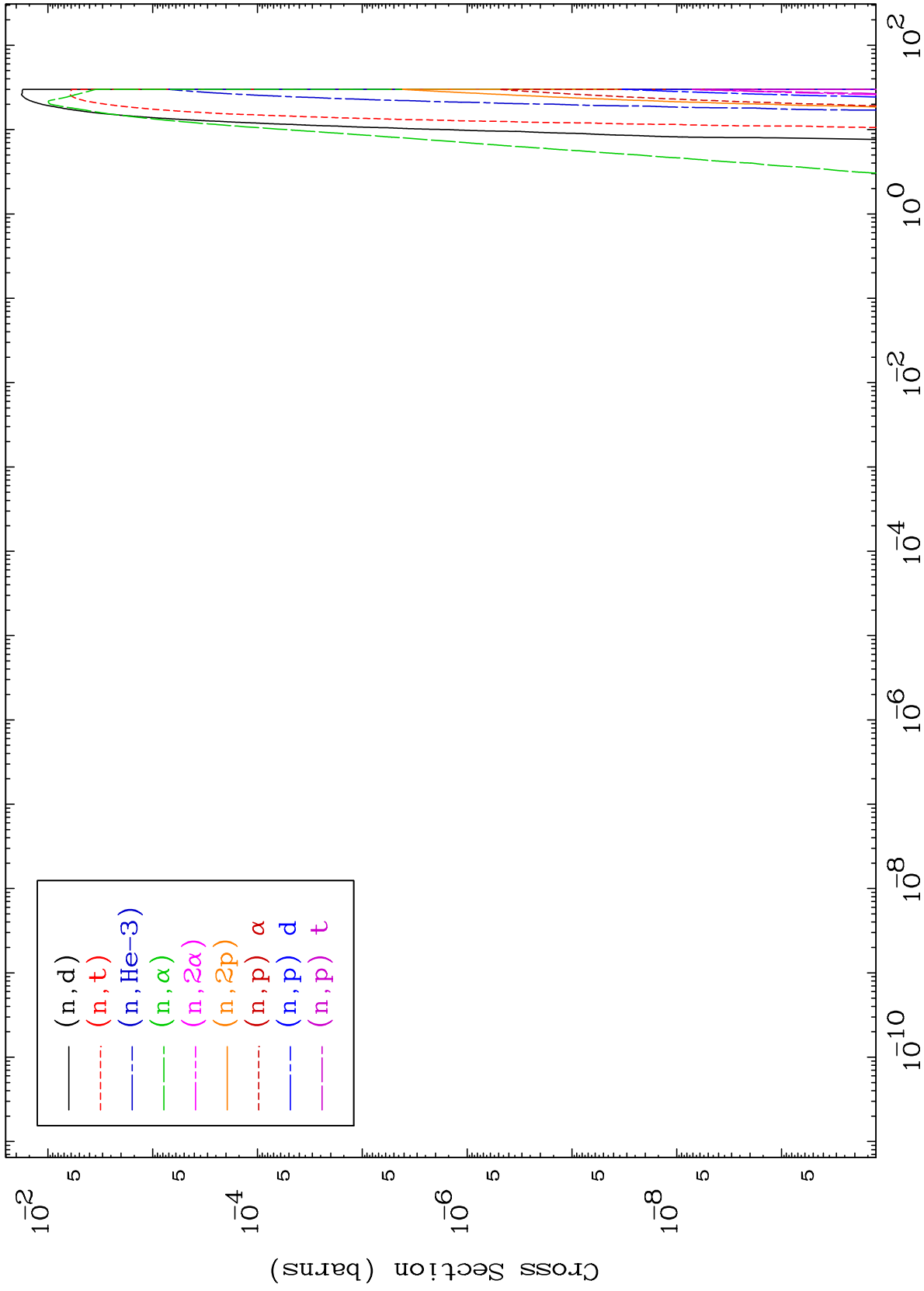
53-I -129

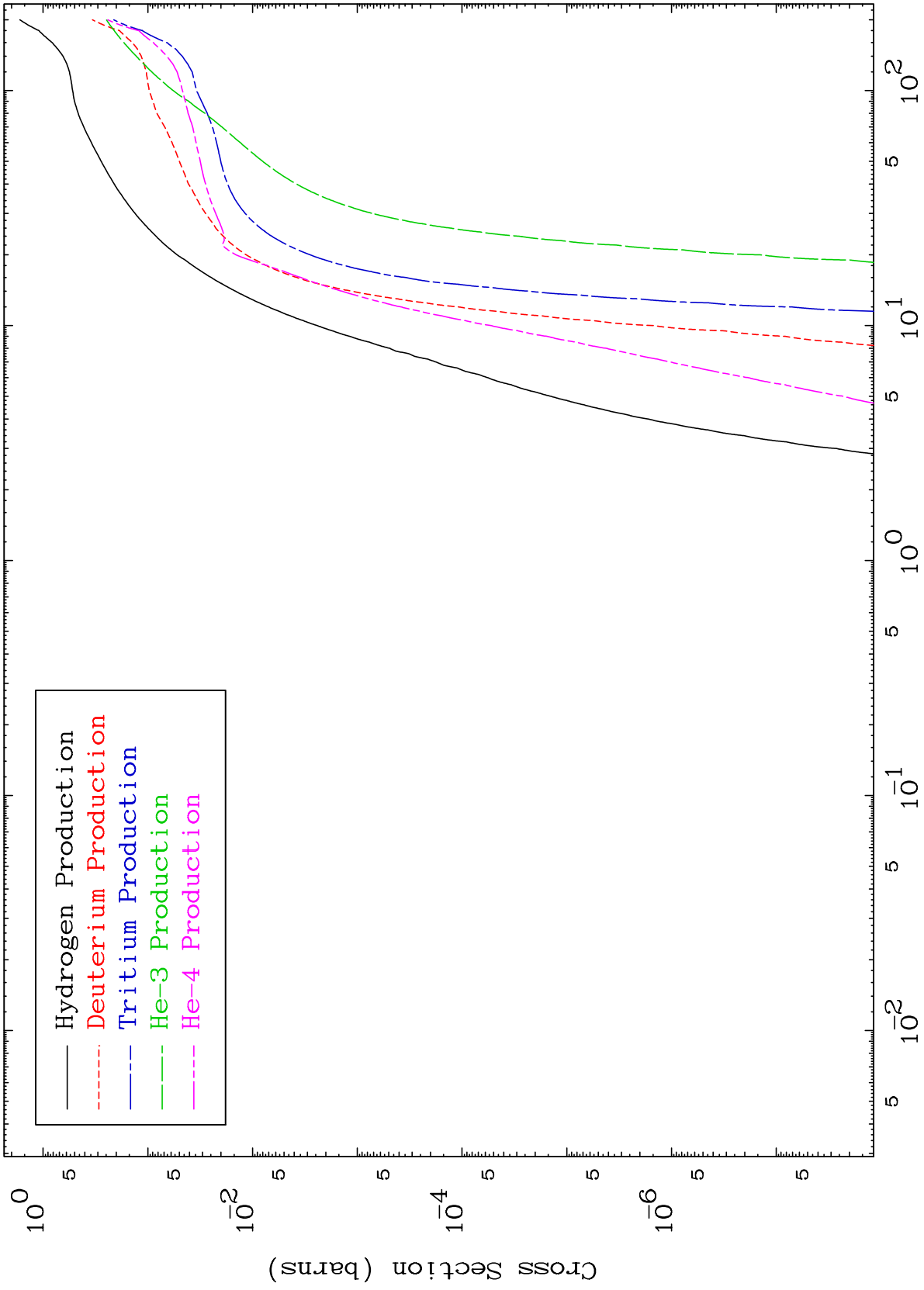


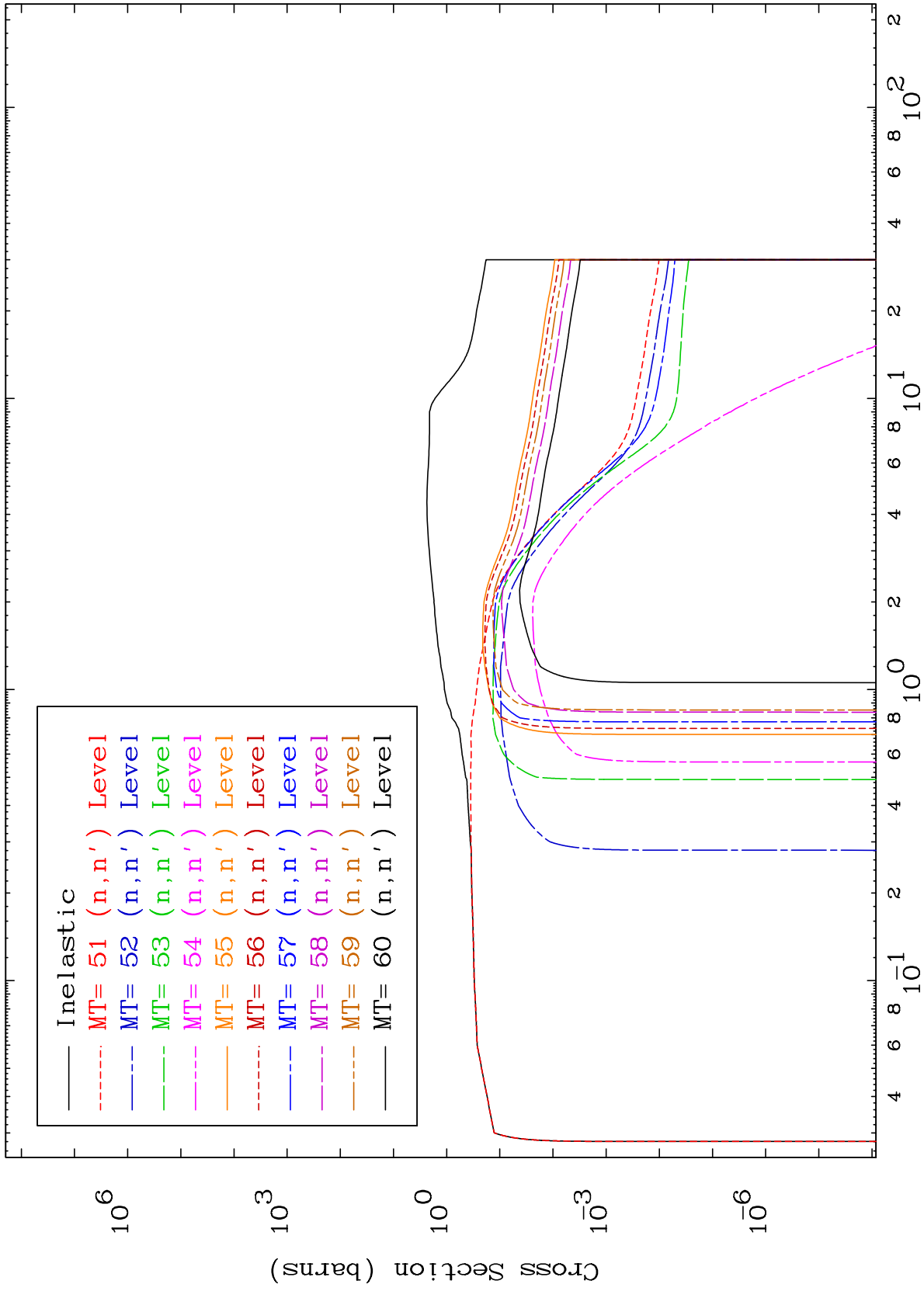












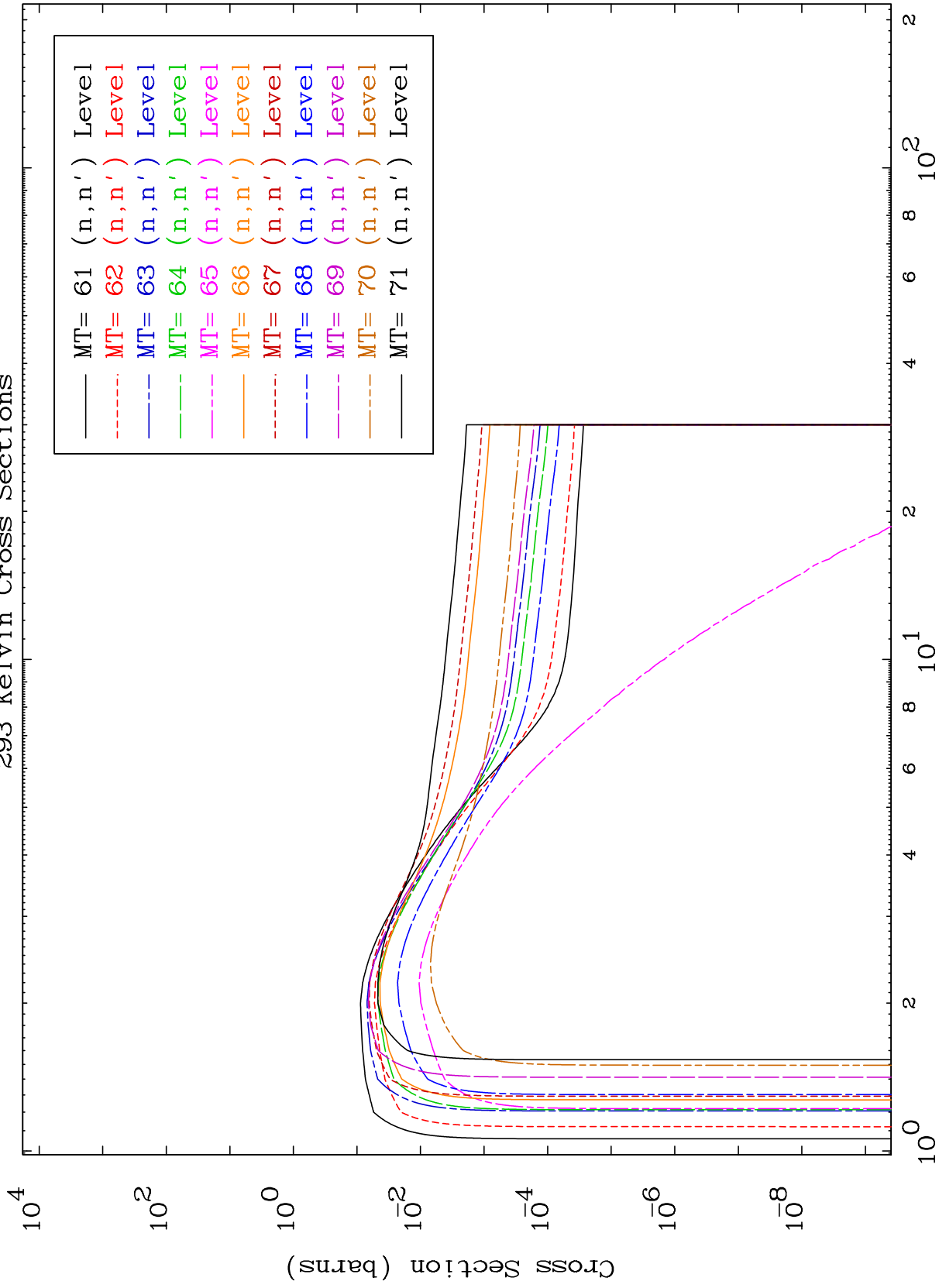


MAT 5331

(n,n') Level

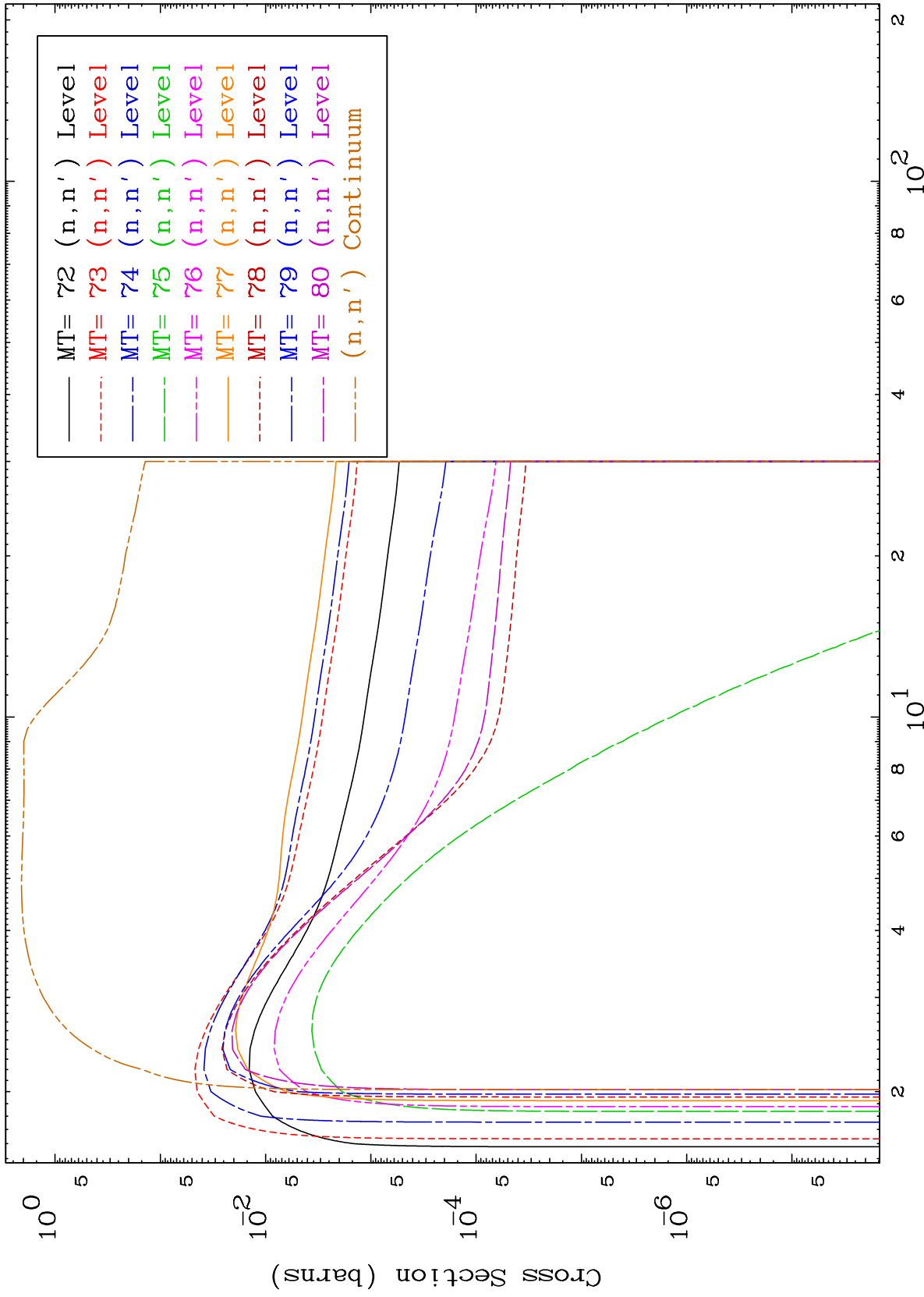
53-I -129

293 Kelvin Cross Sections



Incident Energy (MeV)

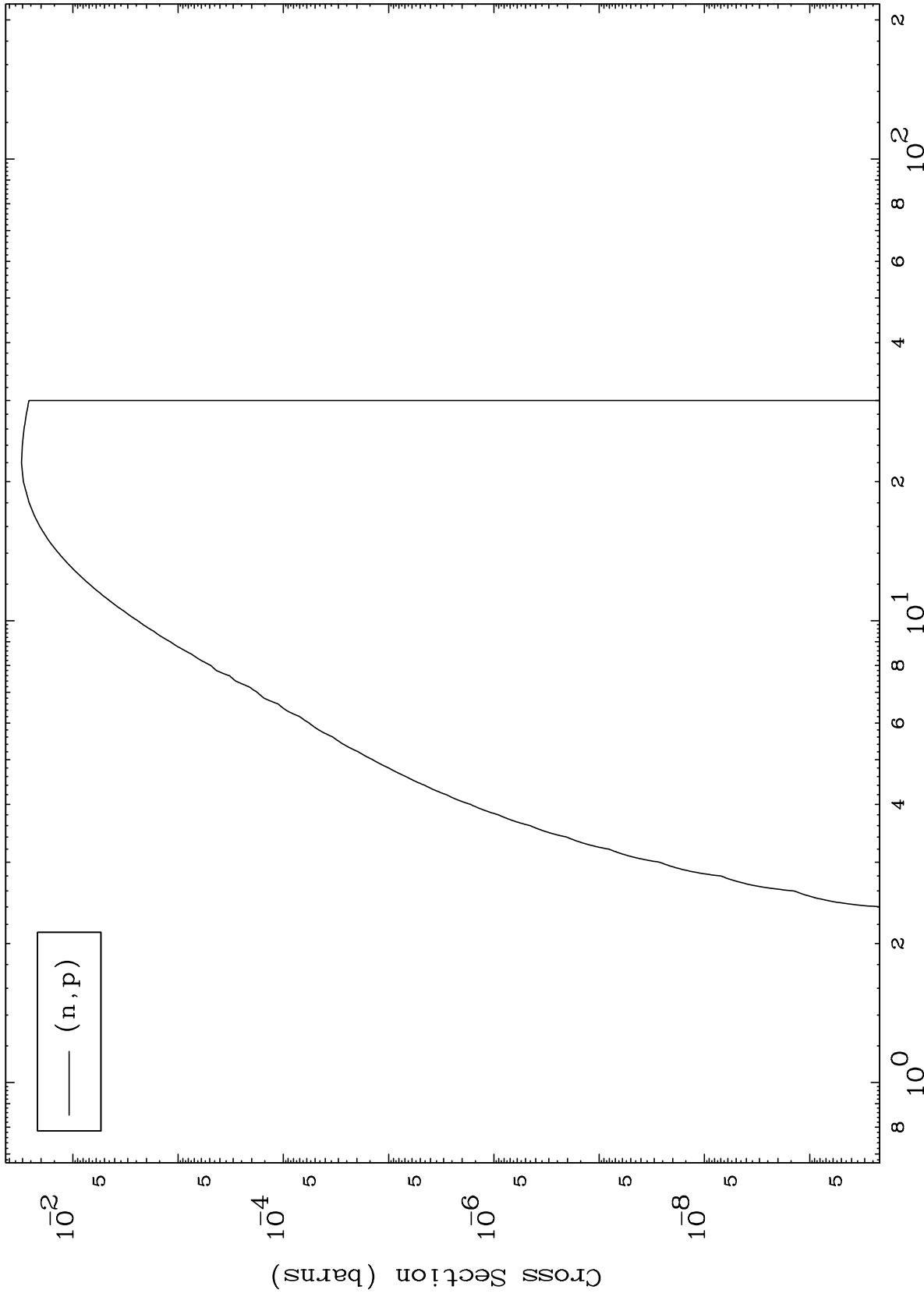
53-I -129



MAT 5331

(n,p) Levels  
293 Kelvin Cross Sections

53-I -129



10

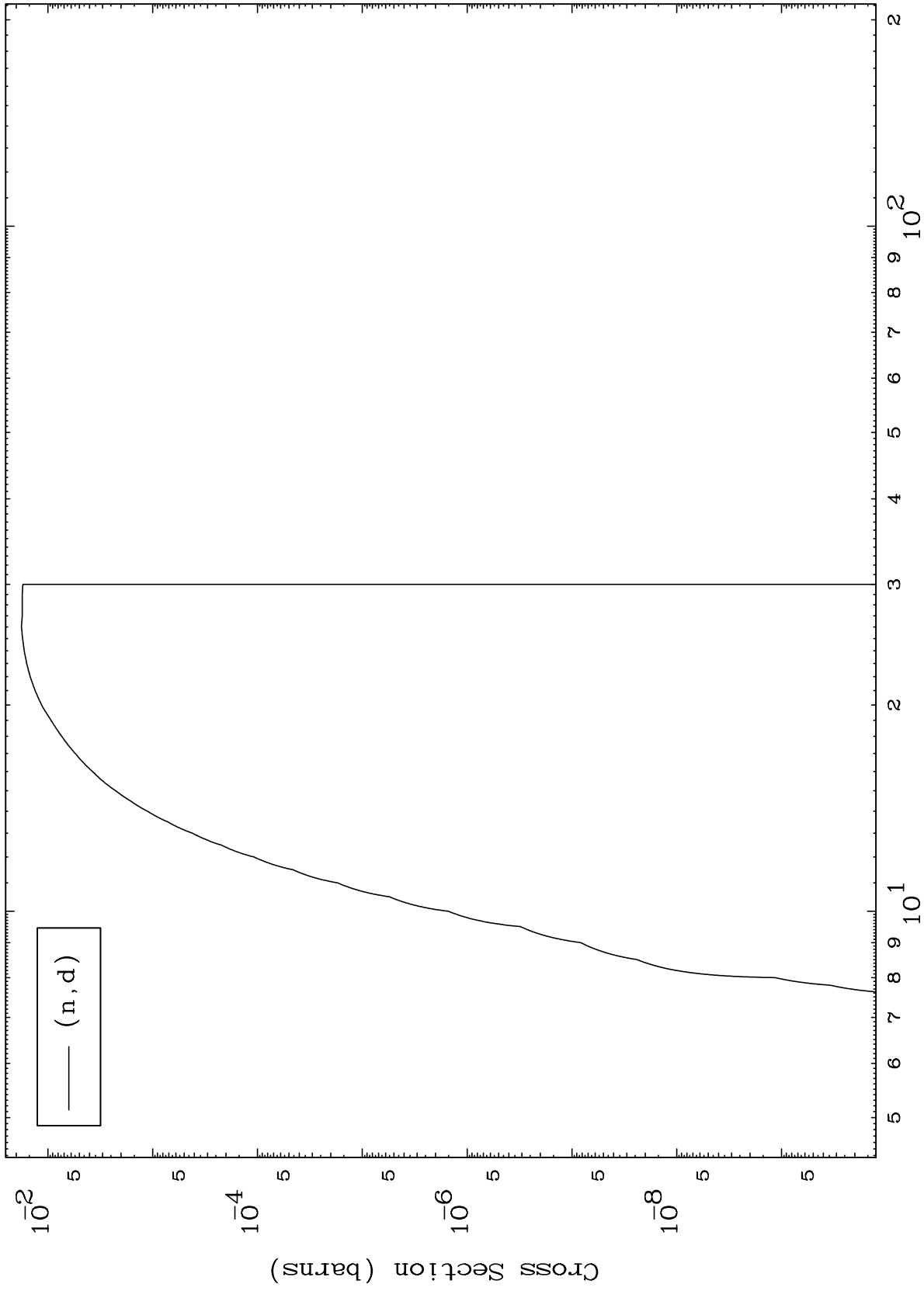
Incident Energy (MeV)

53-I -129

MAT 5331

(n,d) Levels  
293 Kelvin Cross Sections

53-I -129



11

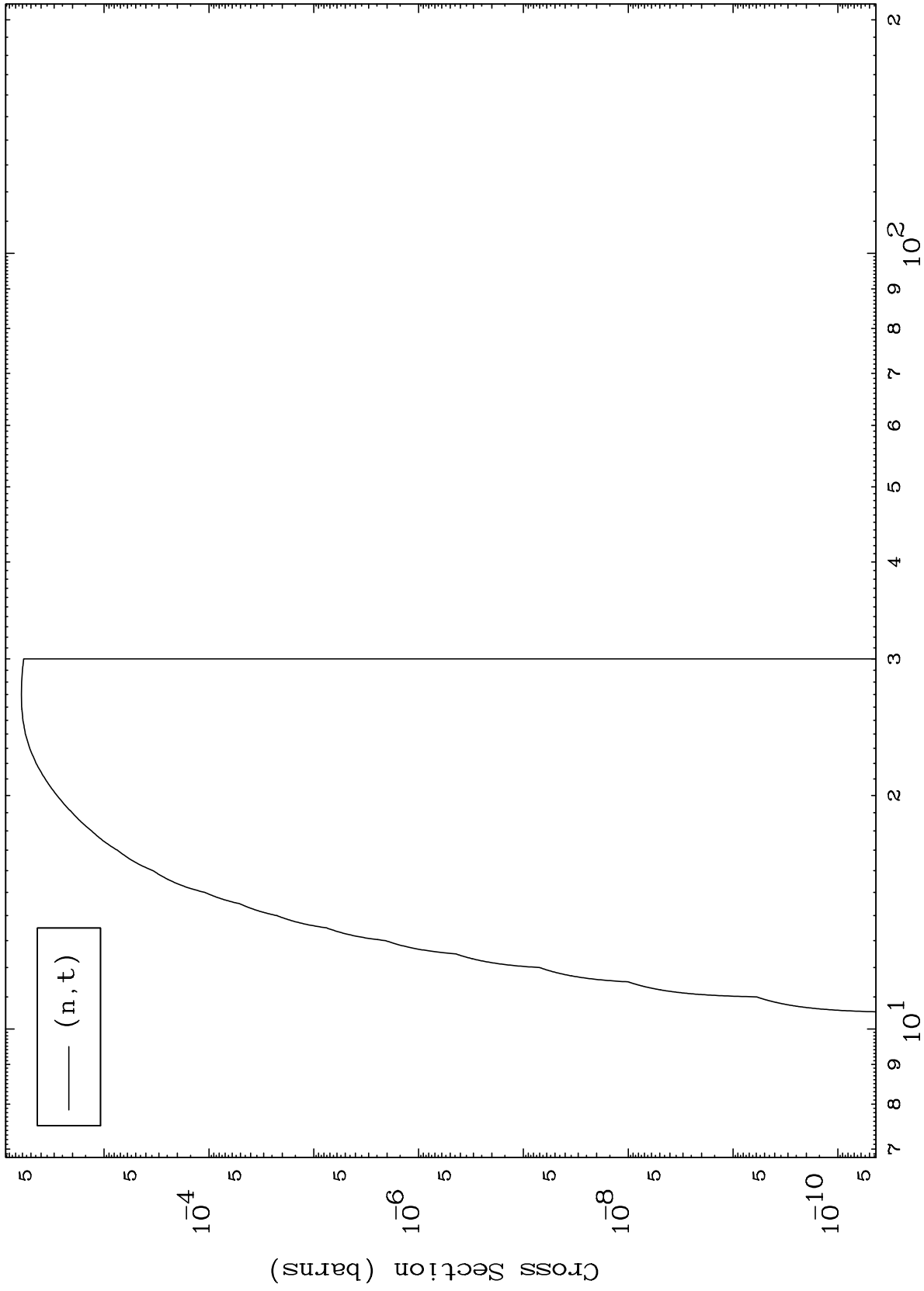
Incident Energy (MeV)

53-I -129

MAT 5331

(n,t) Levels  
293 Kelvin Cross Sections

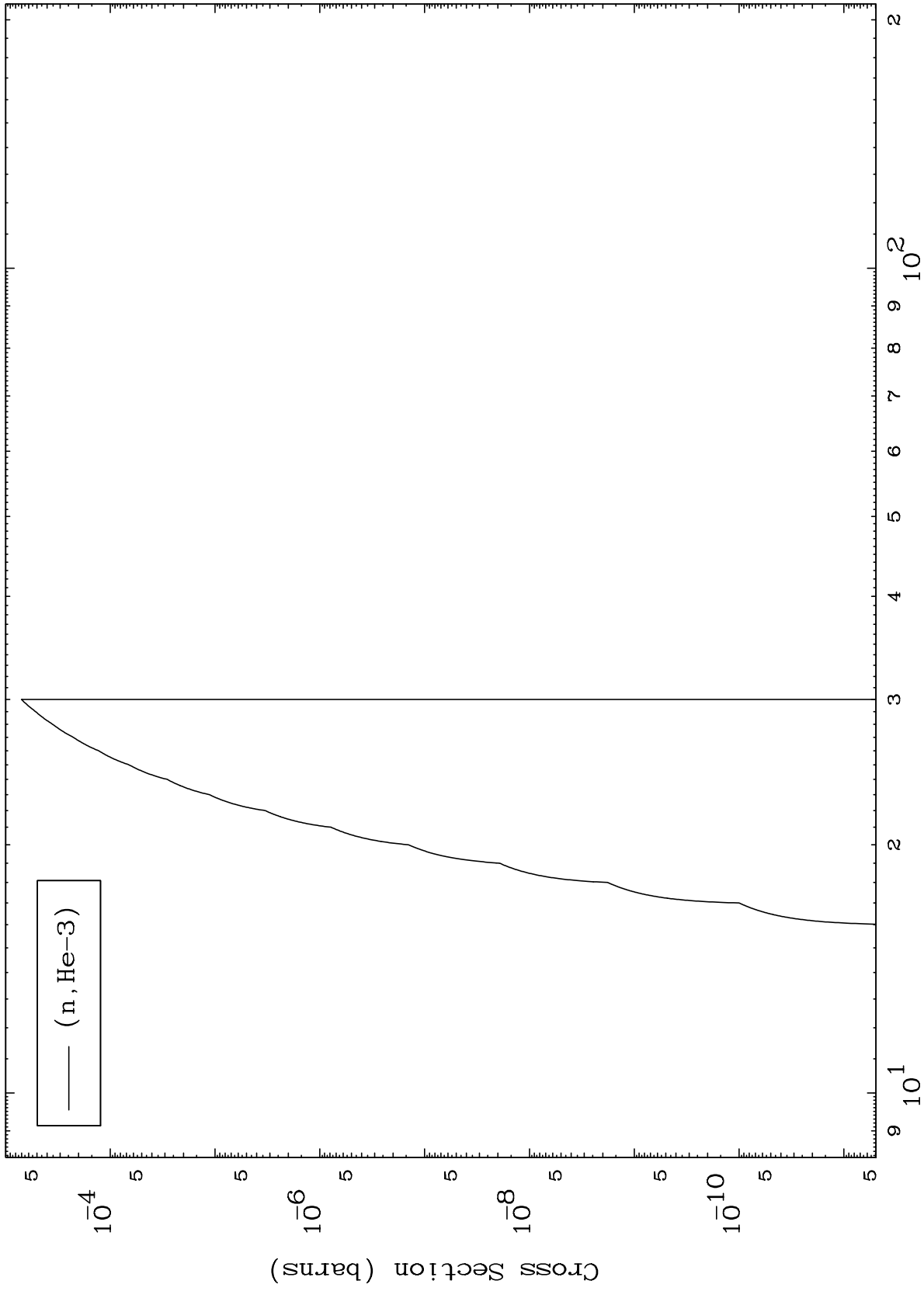
53-I -129



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Incident Energy (MeV)

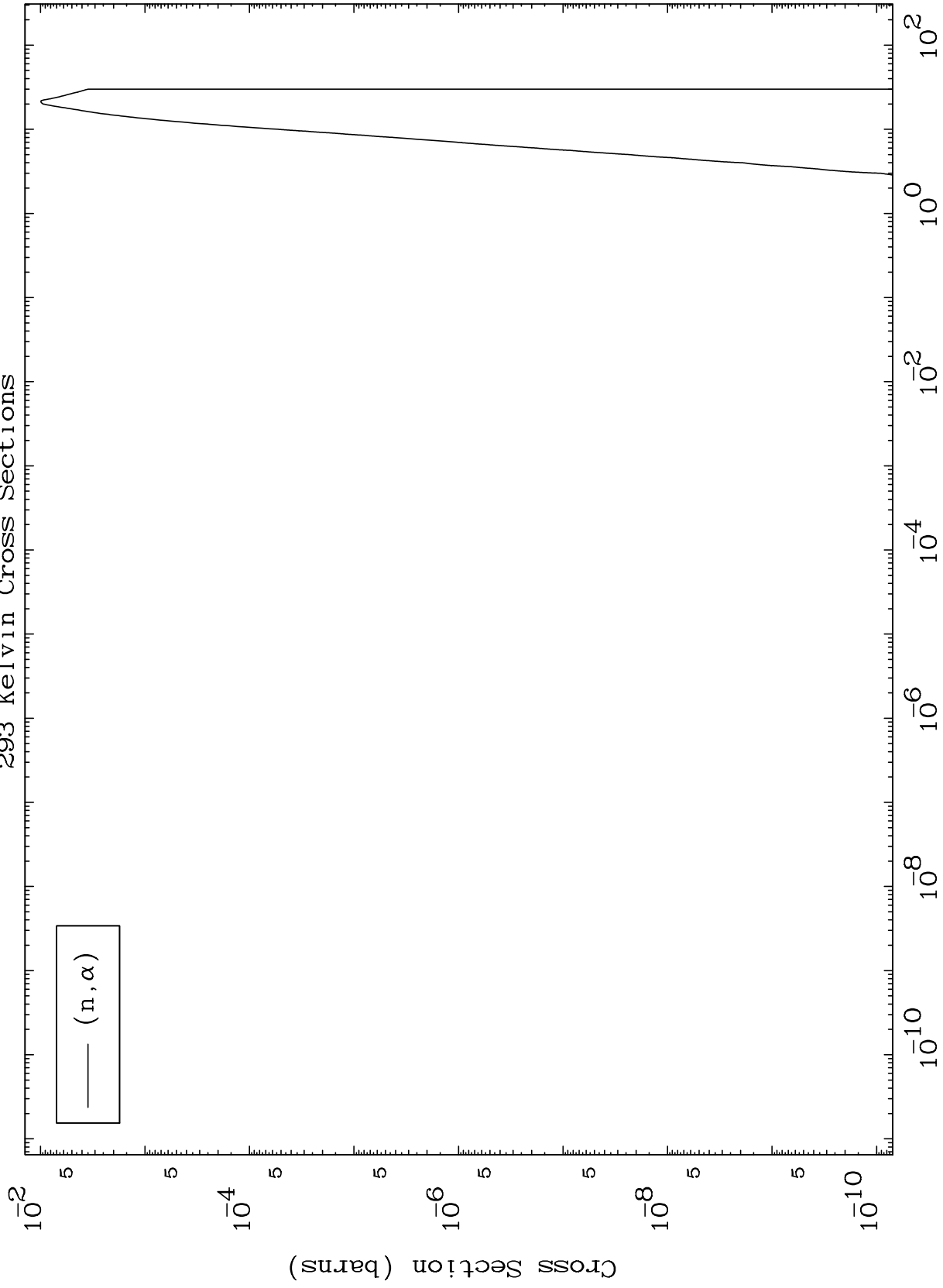
53-I -129



MAT 5331

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

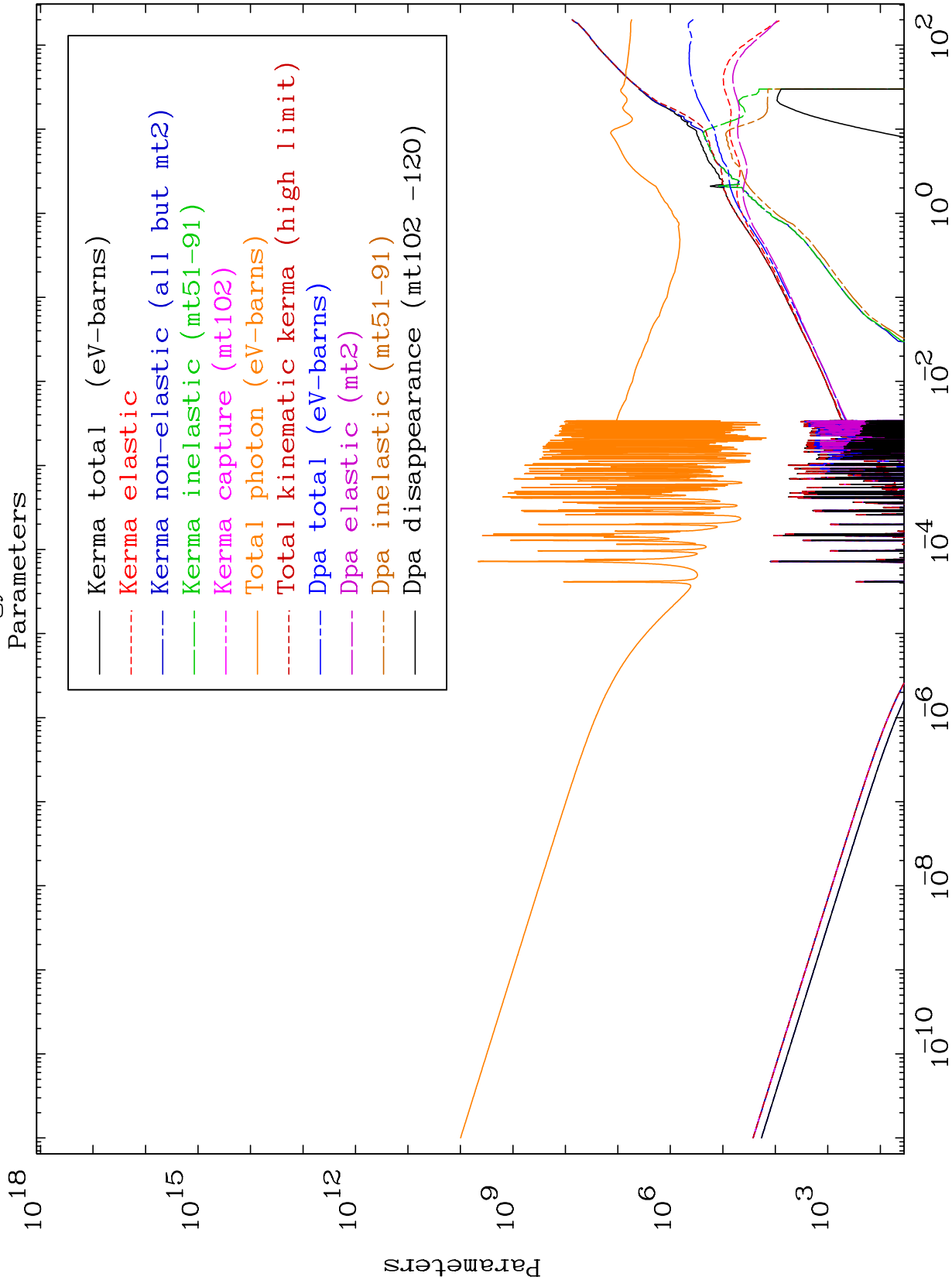
53-I -129



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Incident Energy (MeV)

53-I -129

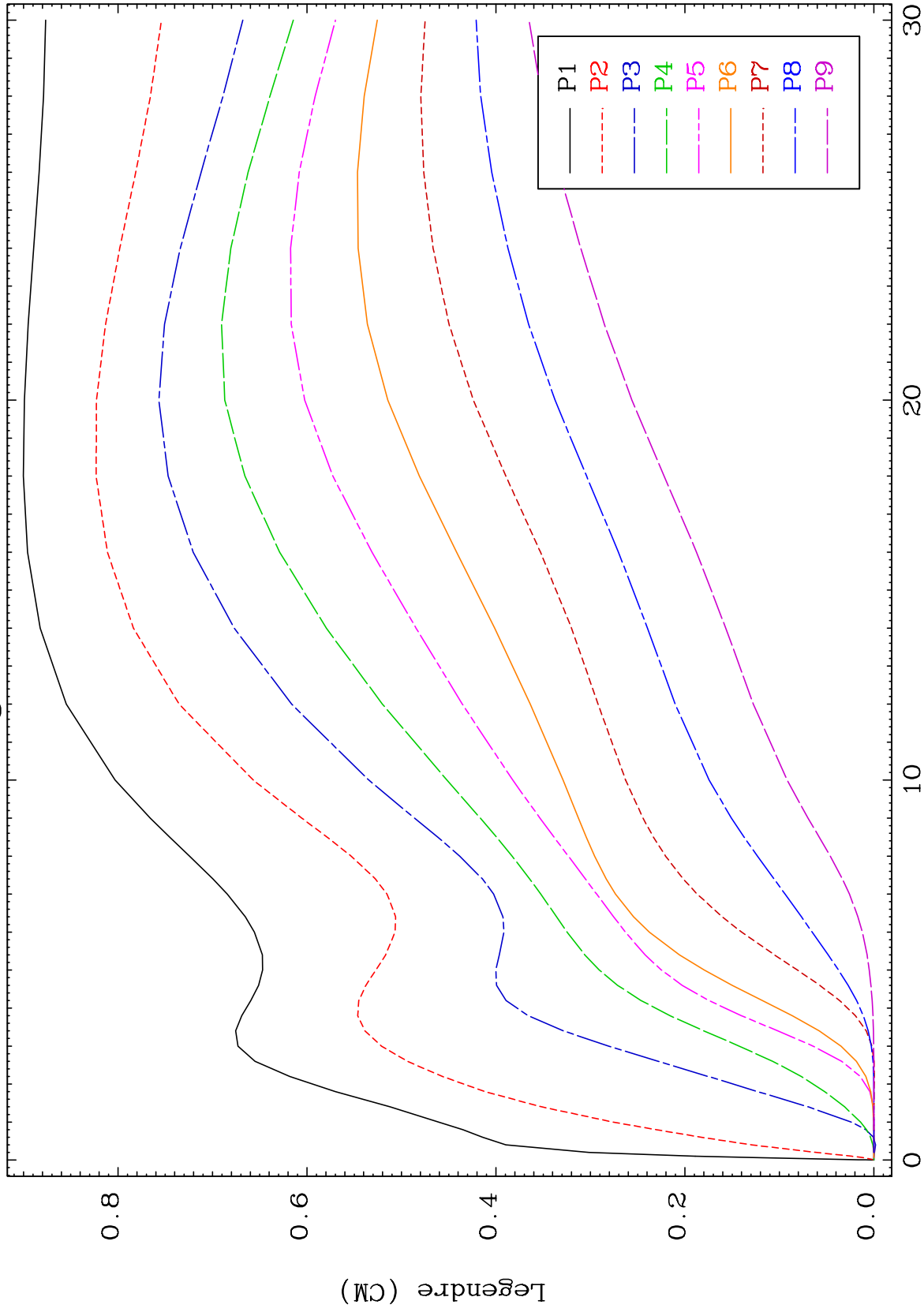




MAT 5331

Elastic Legendre Coefficients

53-I -129



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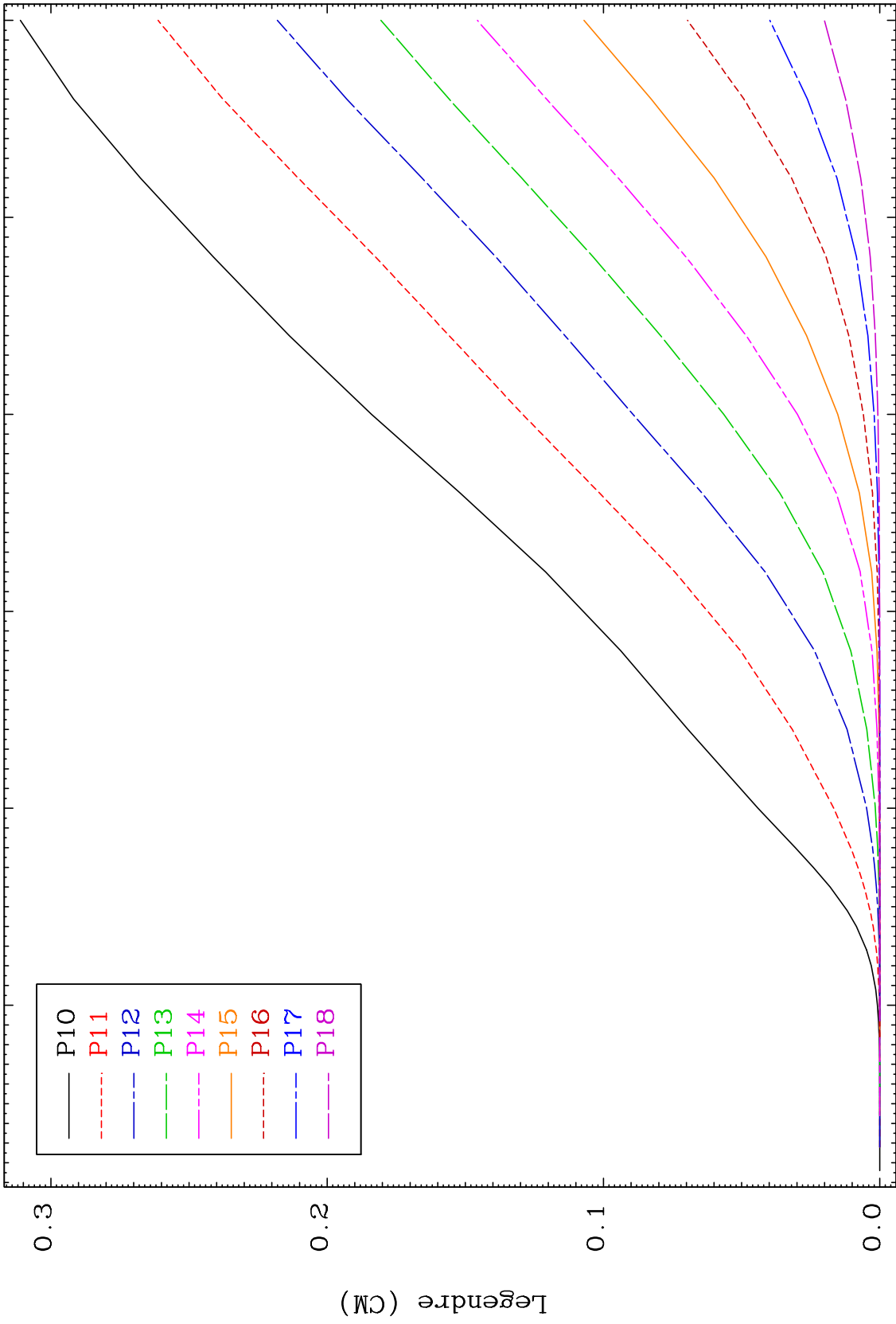
Incident Energy (MeV)

53-I -129

MAT 5331

Elastic Legendre Coefficients

53-I -129



17

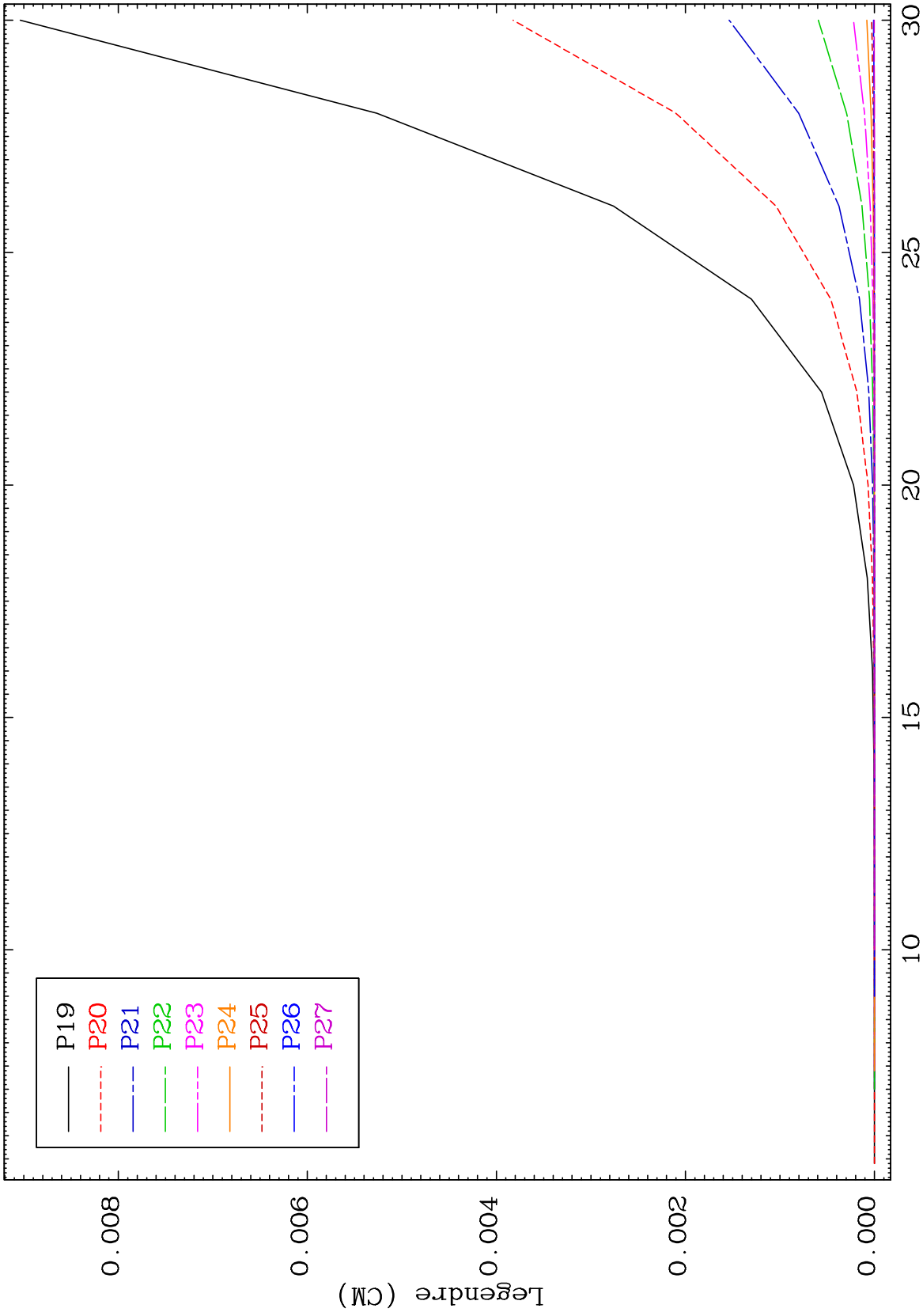
Incident Energy (MeV)

53-I -129

MAT 5331

### Elastic Legendre Coefficients

53-I -129



18

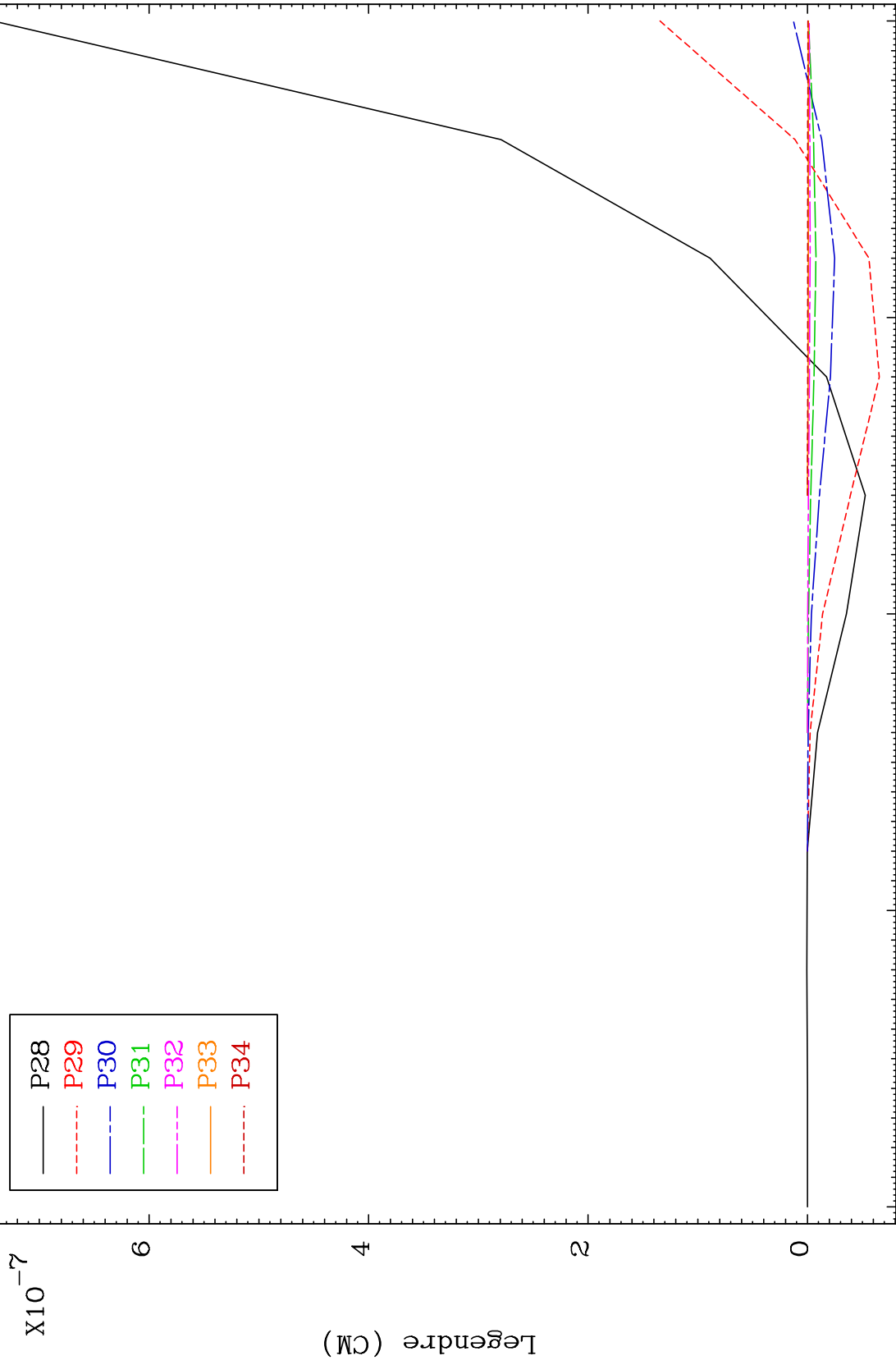
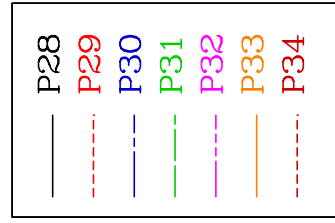
Incident Energy (MeV)

53-I -129

MAT 5331

Elastic Legendre Coefficients

53-I -129



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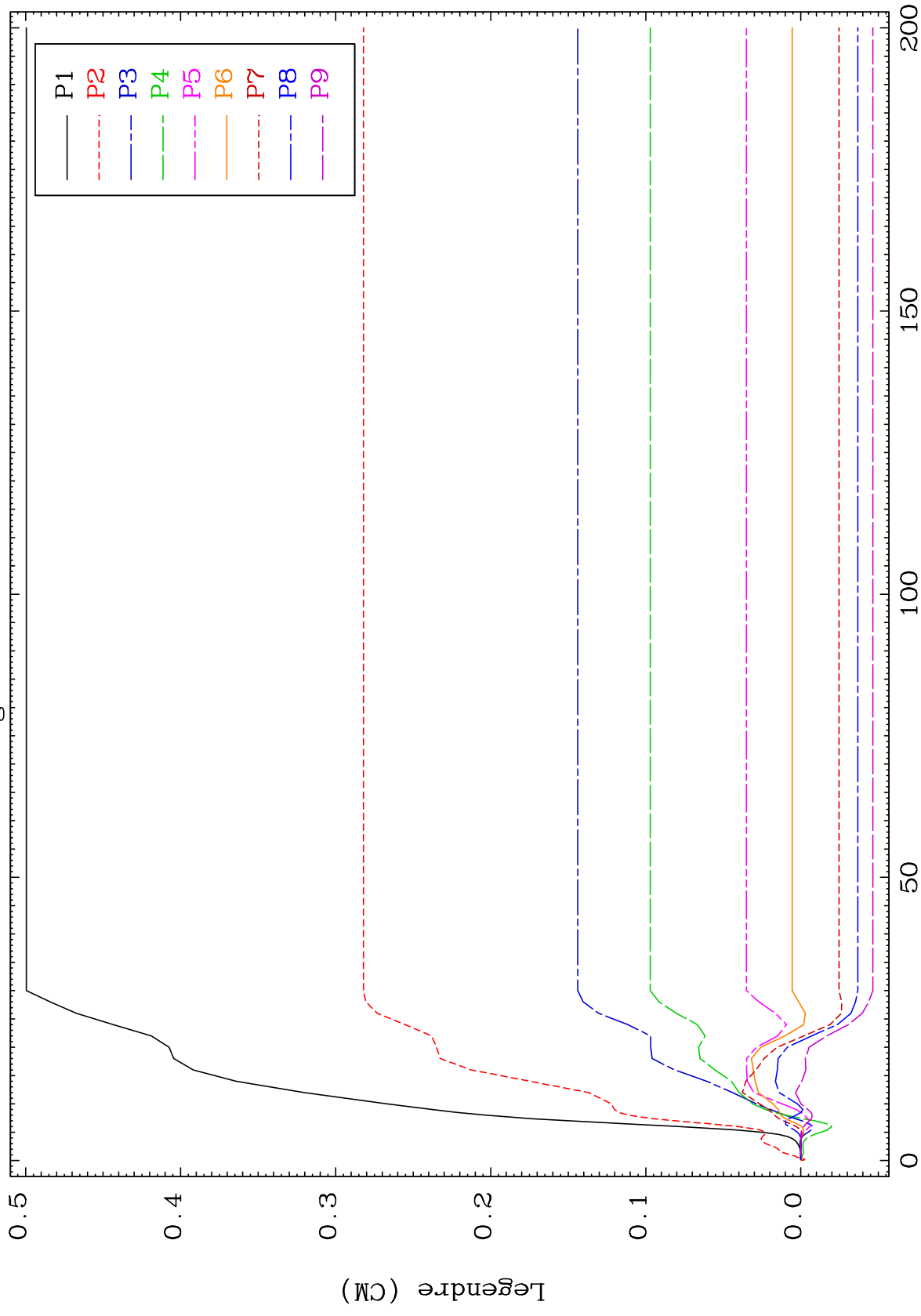
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



20

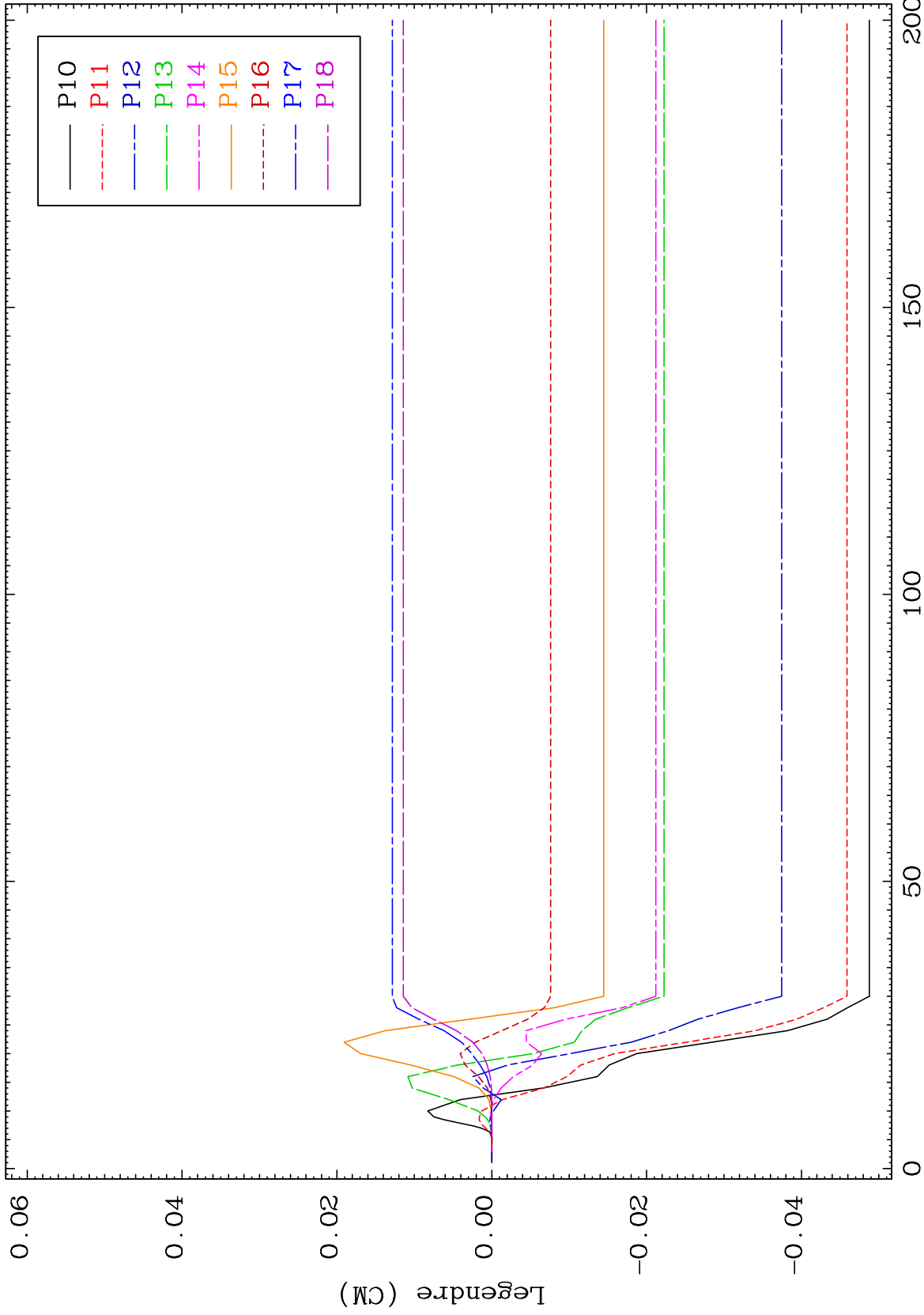
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



21

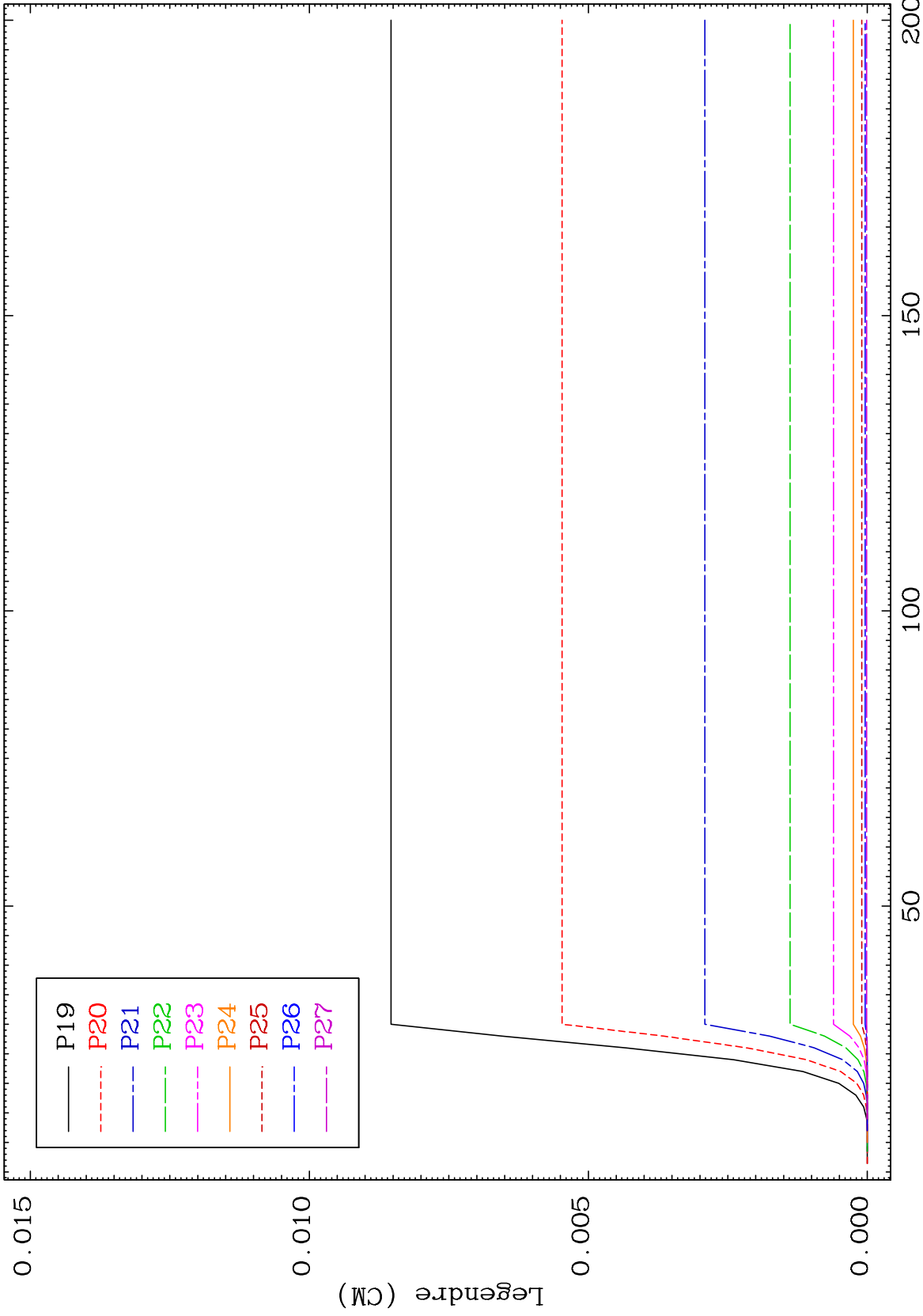
Incident Energy (MeV)

53-I -129

MAT 5331

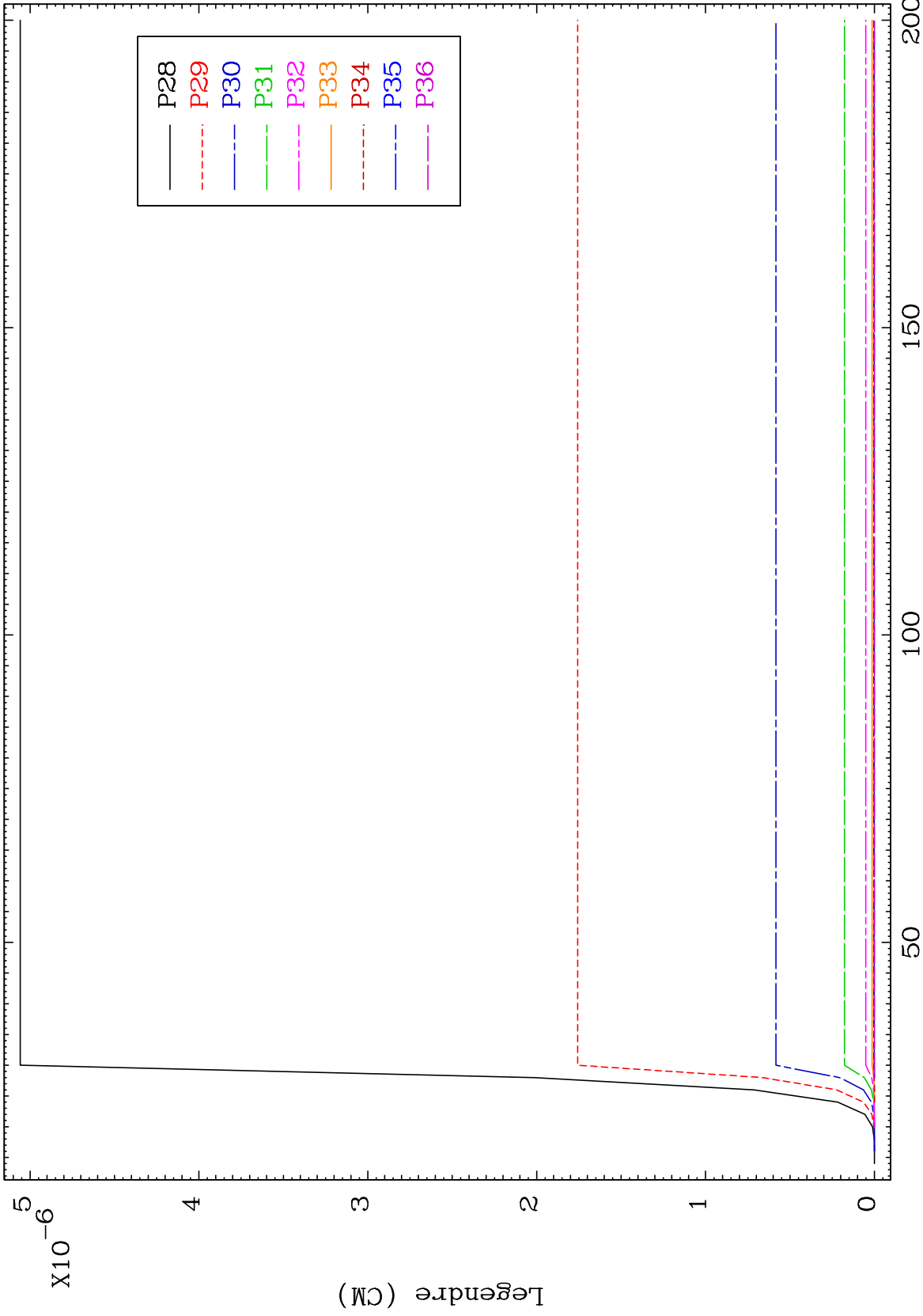
MT= 51 (n,n') Level  
Legendre Coefficients

53-I -129



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53-I -129

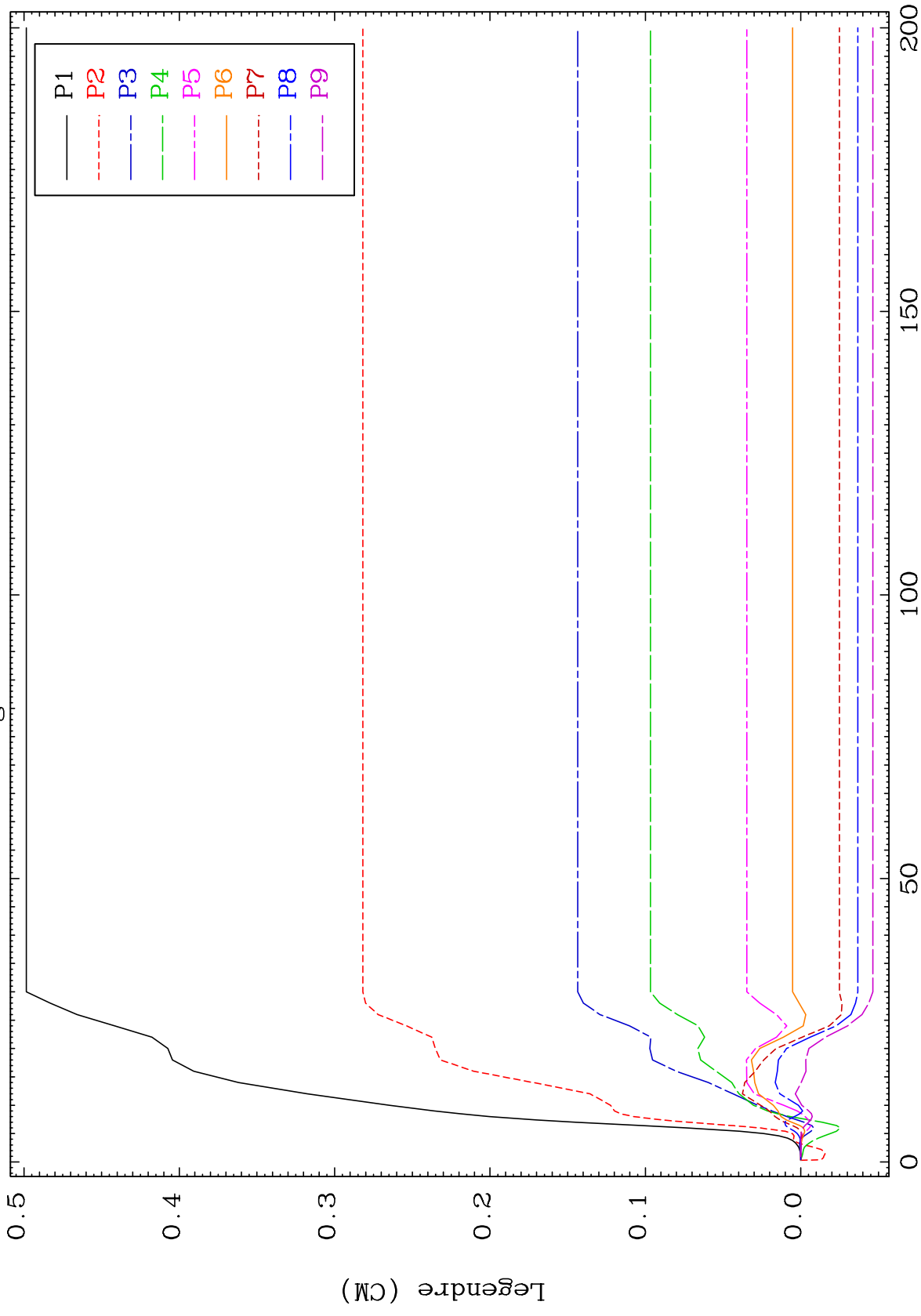




MAT 5331

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

53-I -129



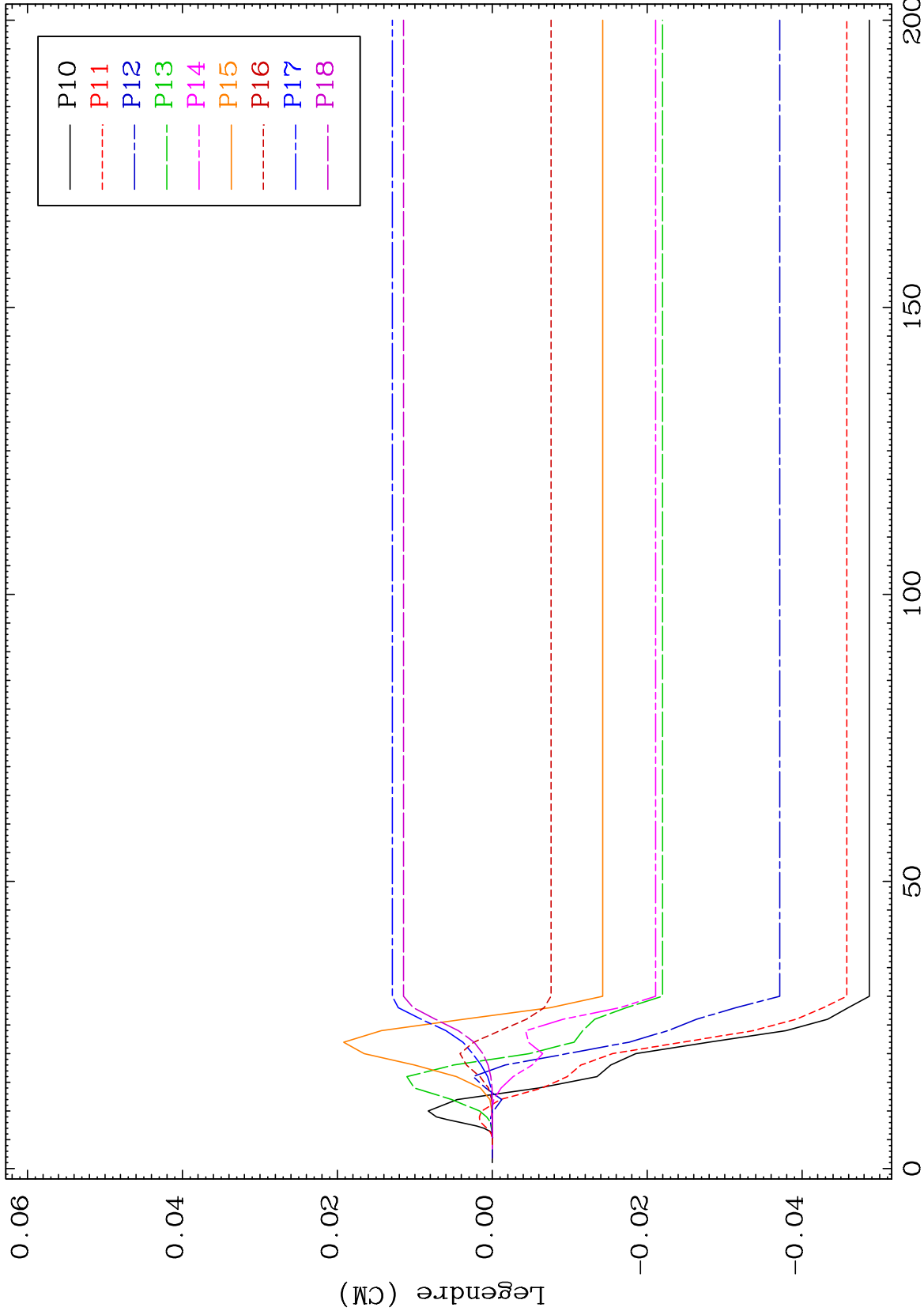
24

53-I -129

MAT 5331

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

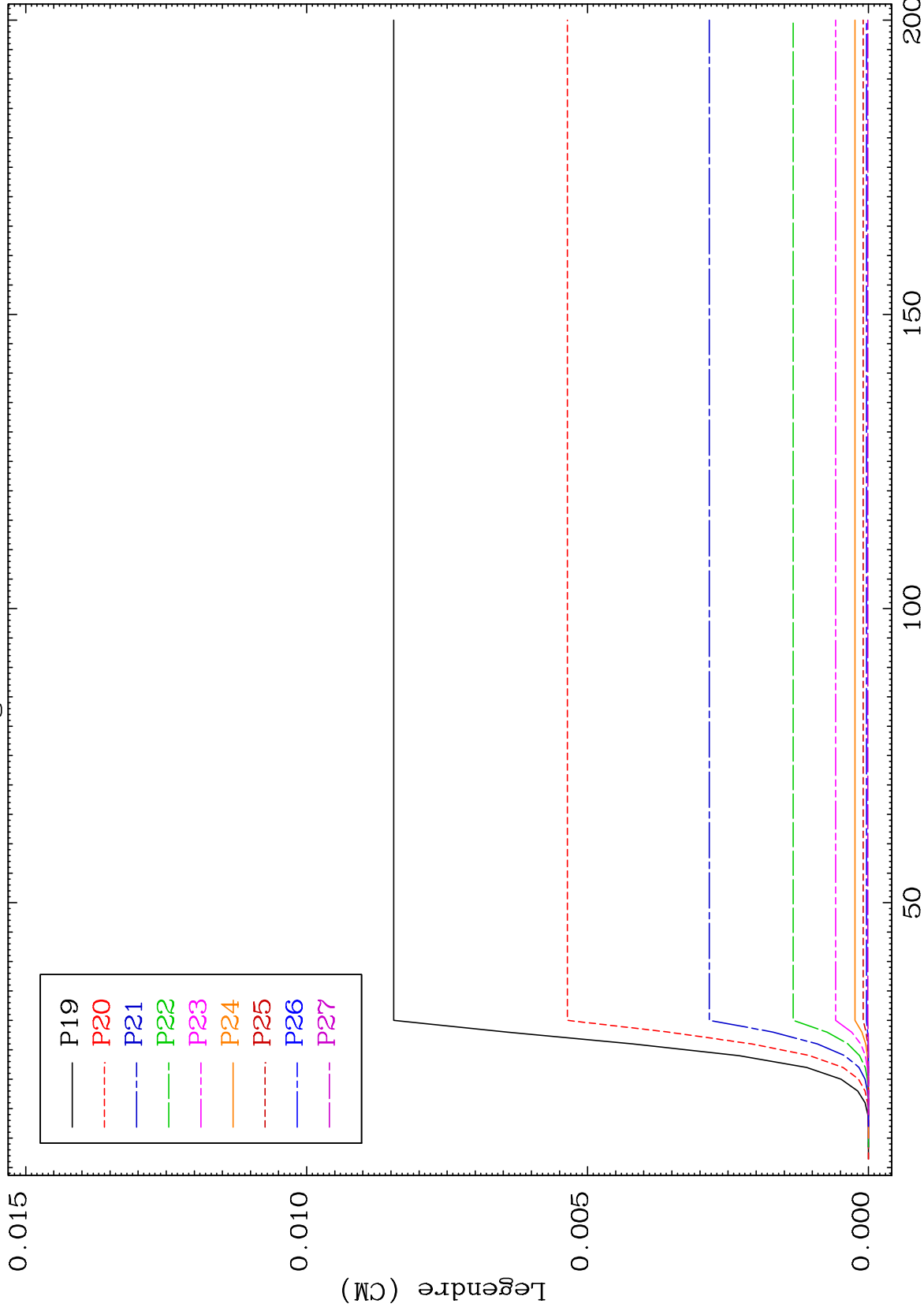
53-I -129



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Incident Energy (MeV)

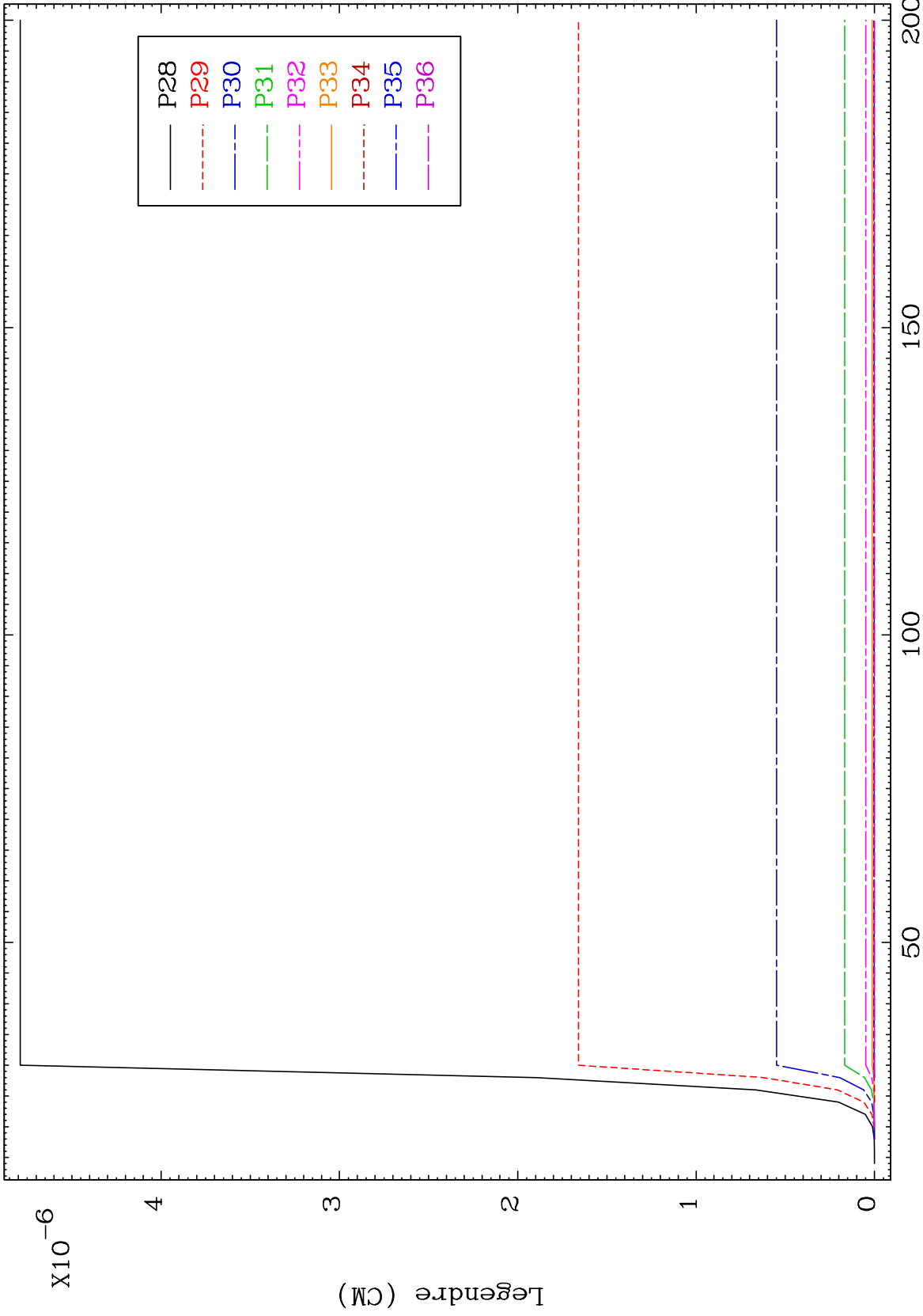
53-I -129



MAT 5331

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

53-I -129



27

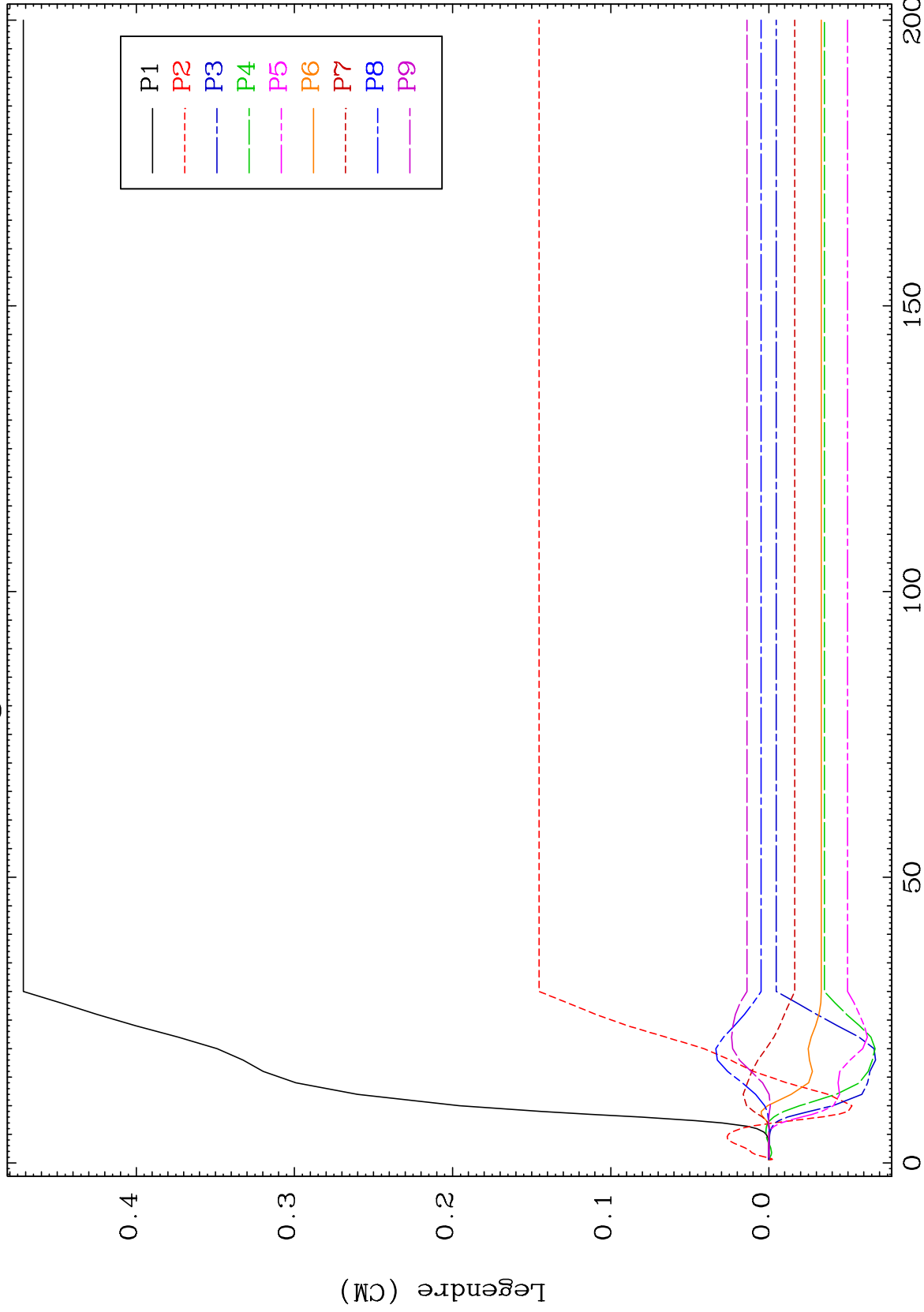
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



28

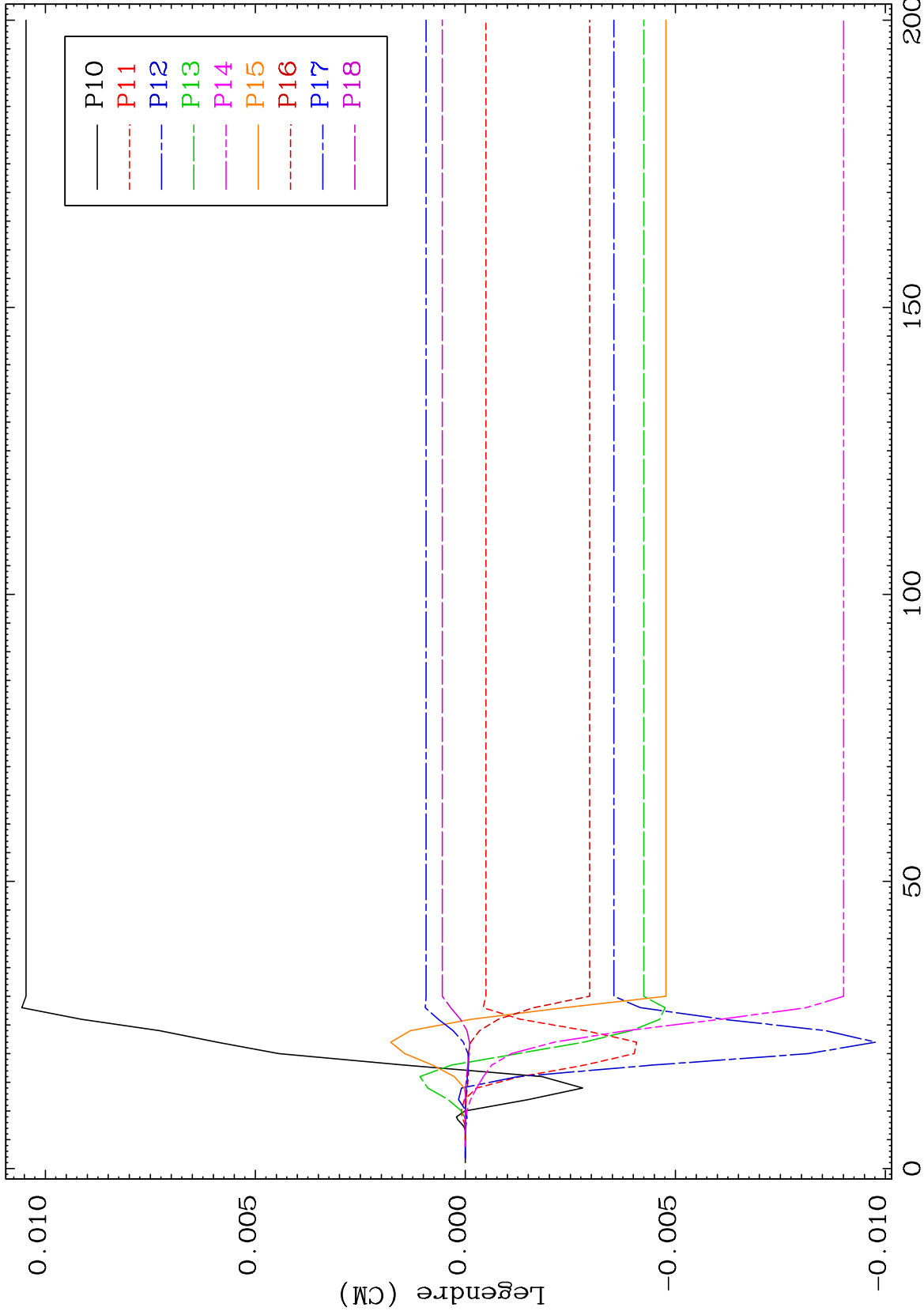
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



29

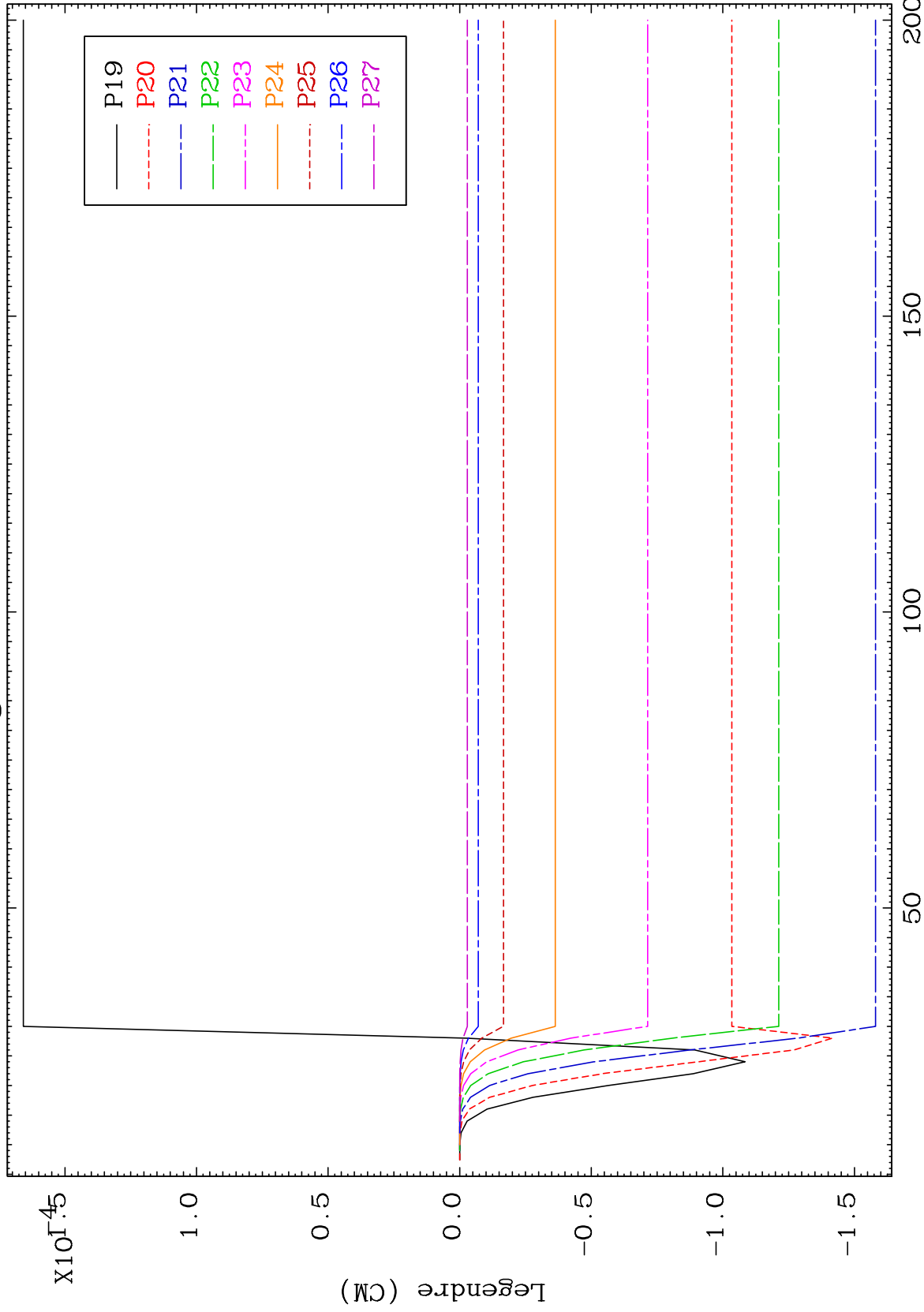
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



30

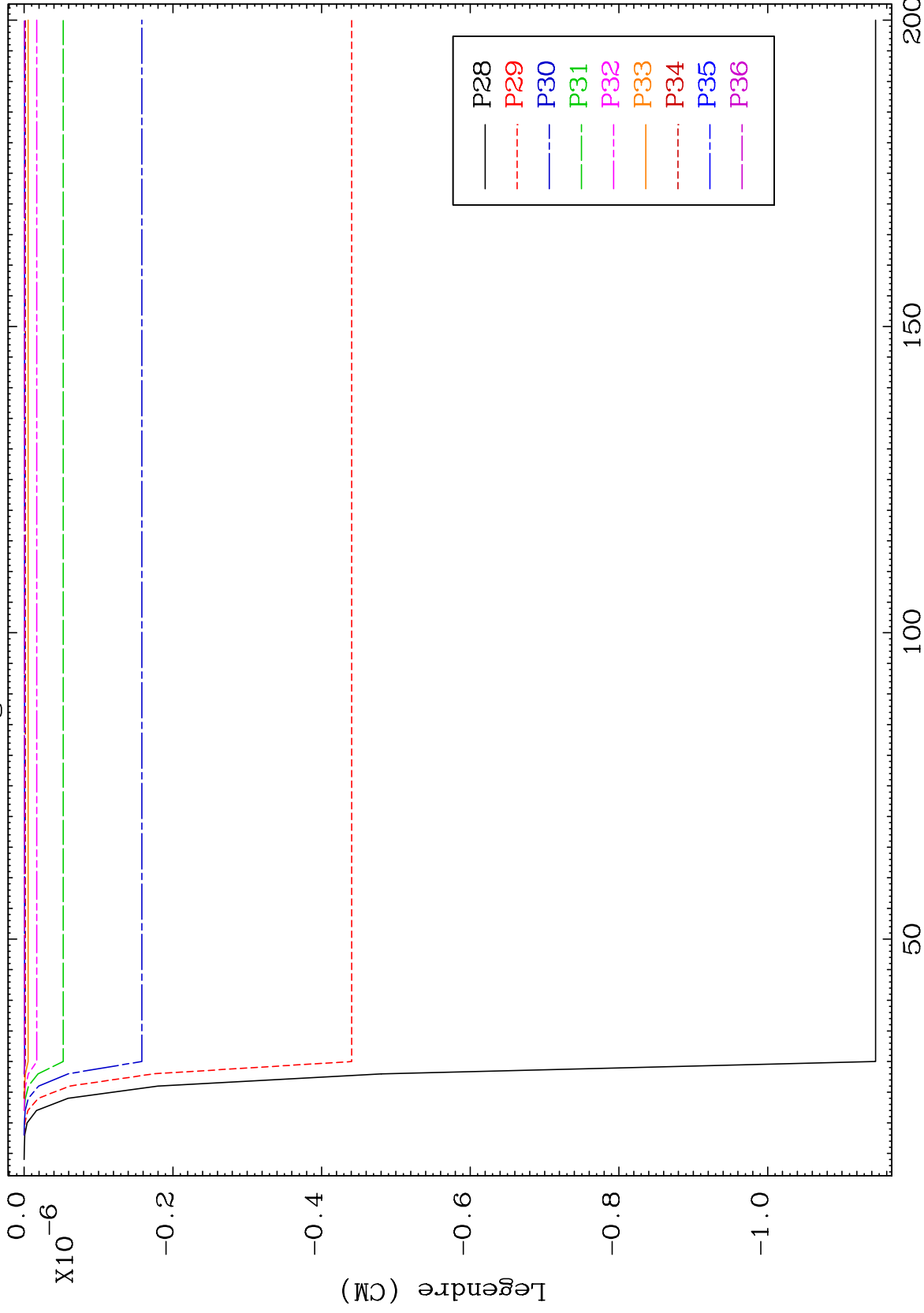
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



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Incident Energy (MeV)

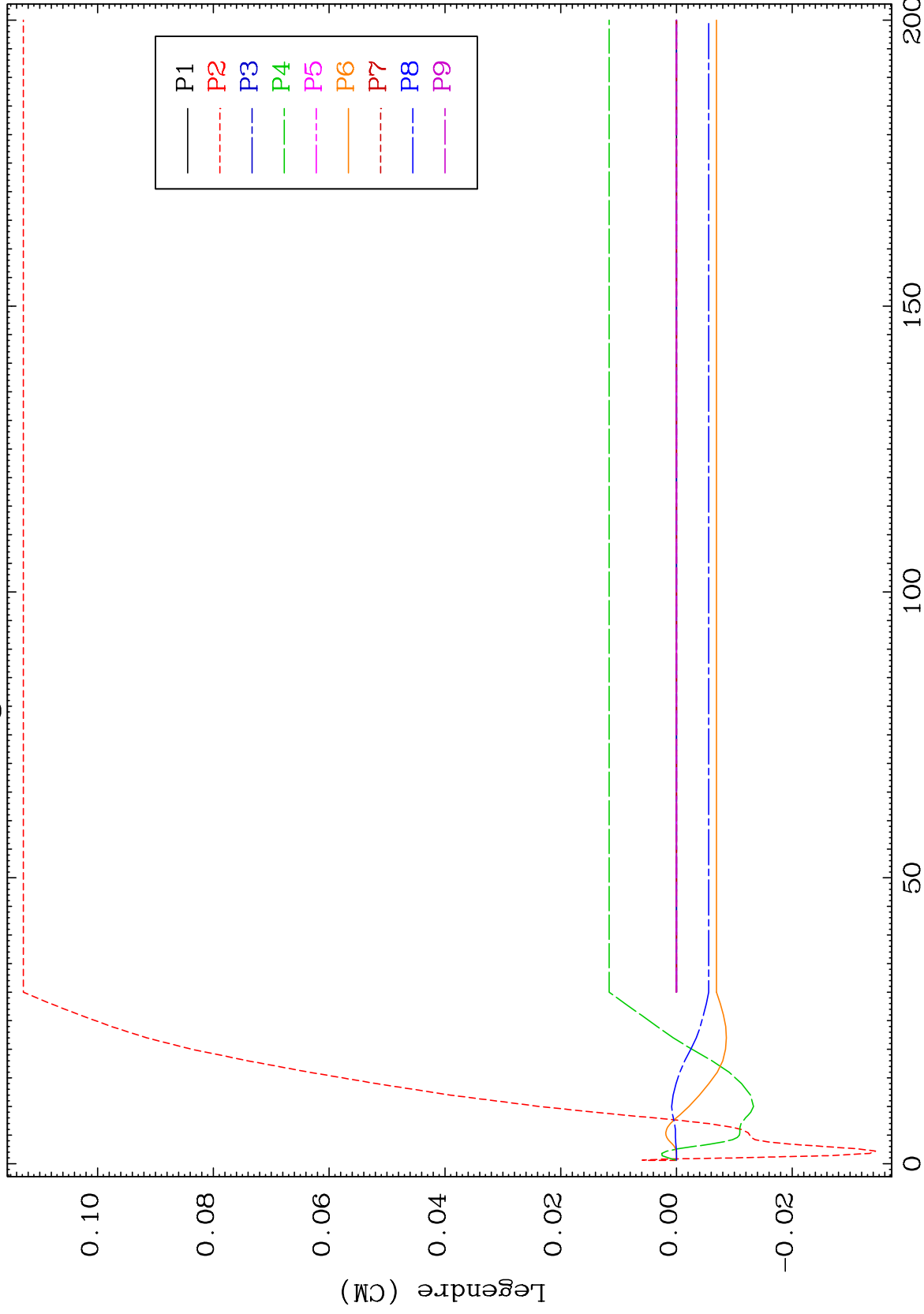
53-I -129



MAT 5331

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

53-I -129



32

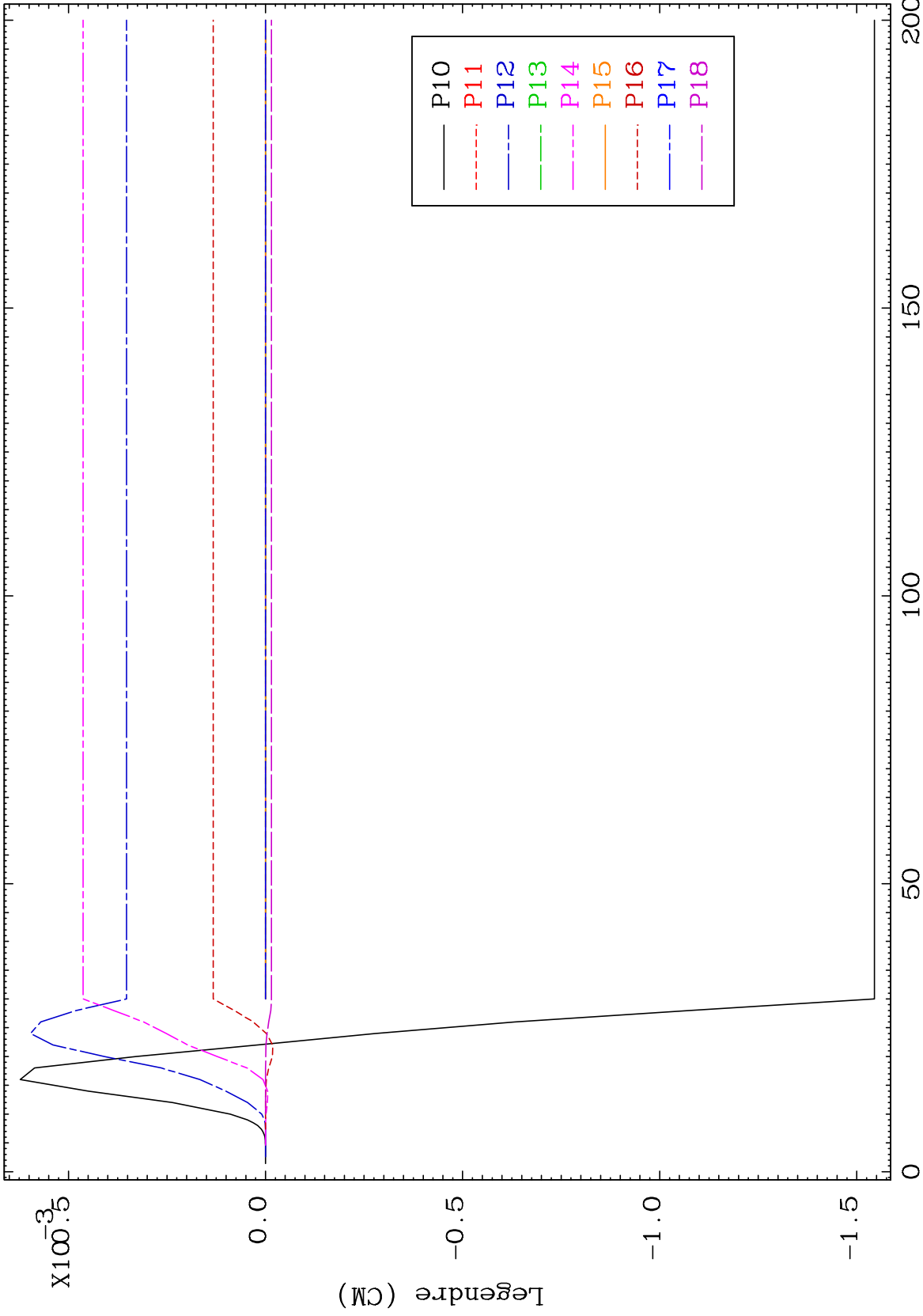
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



33

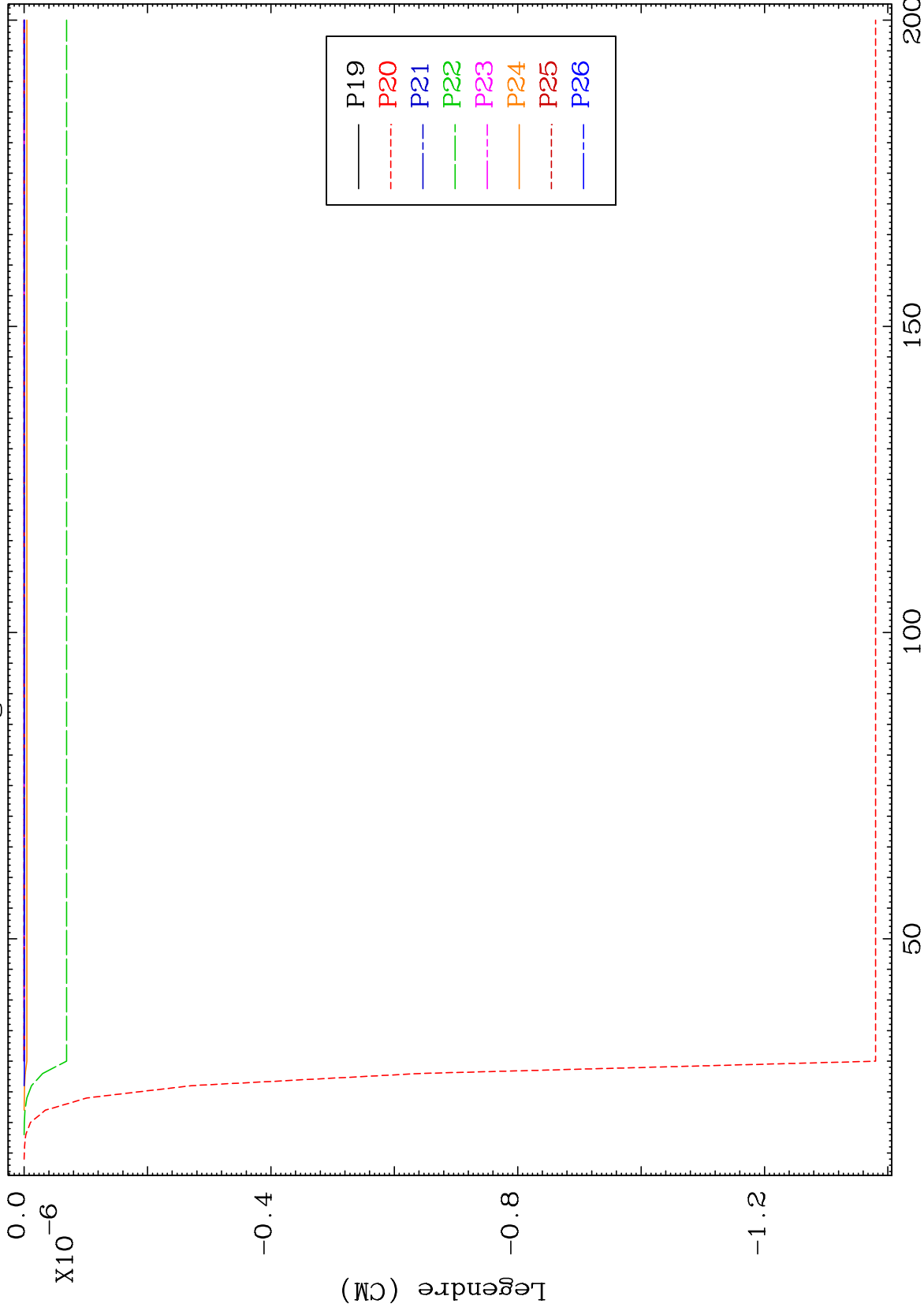
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



34

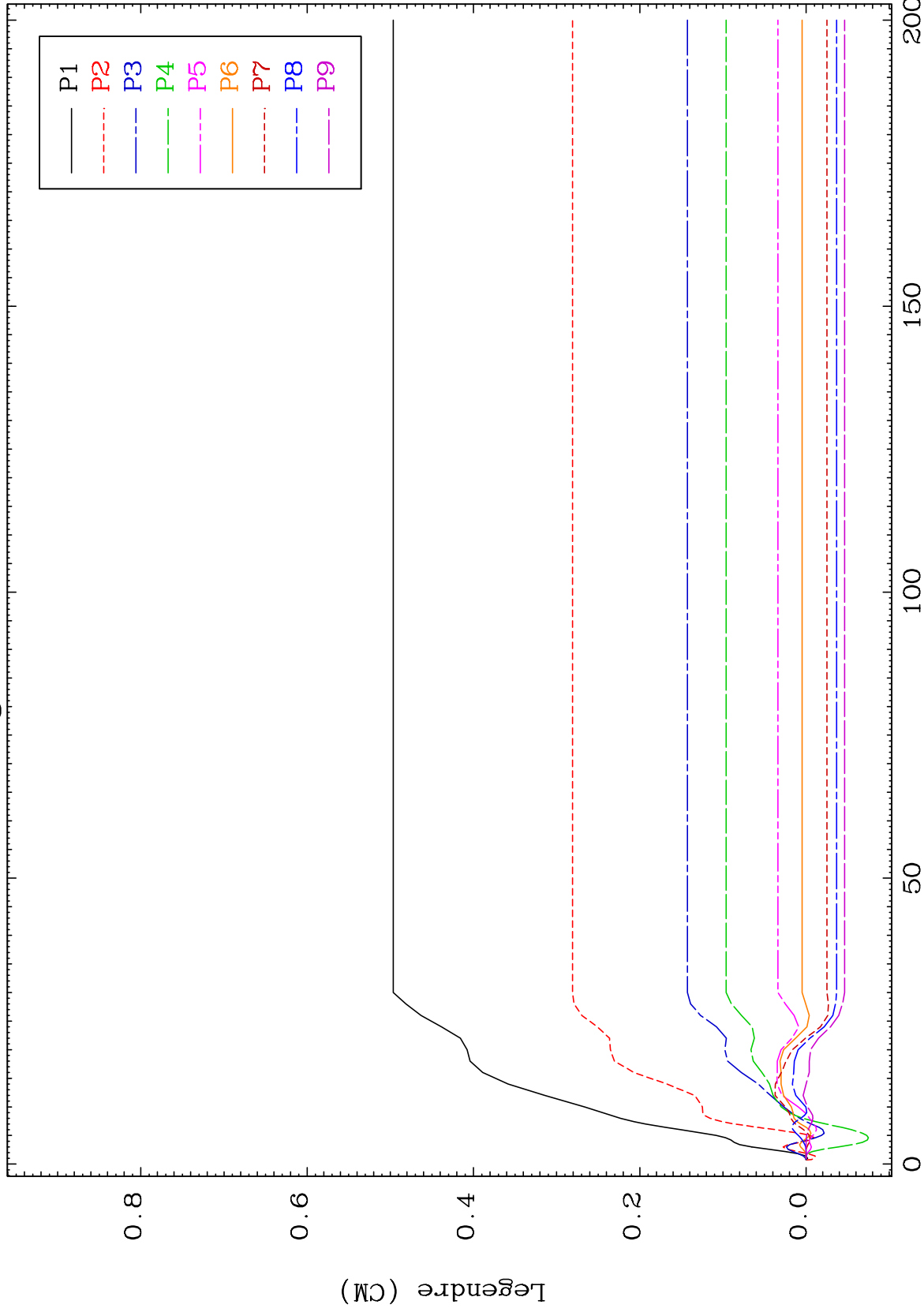
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



35

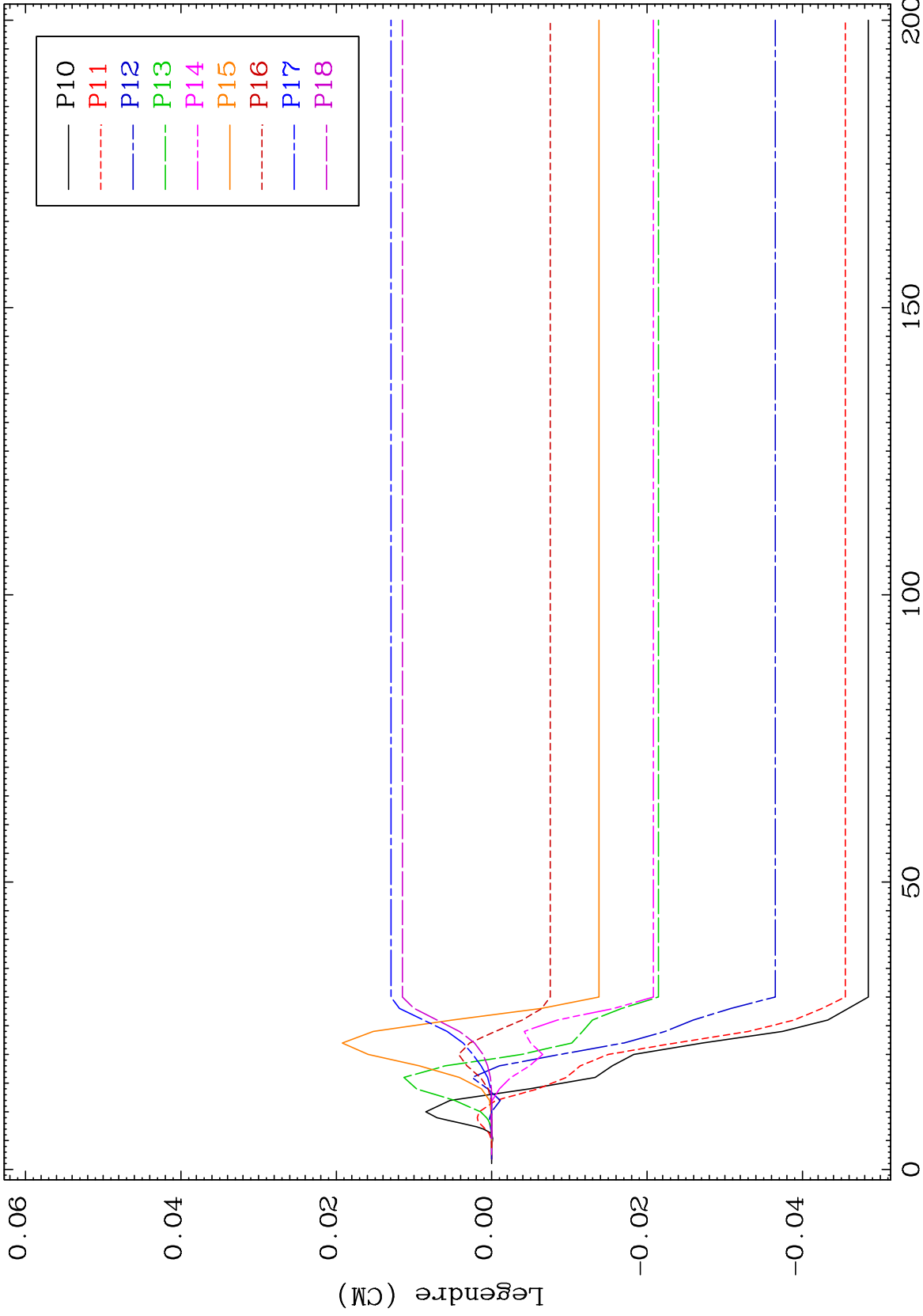
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



36

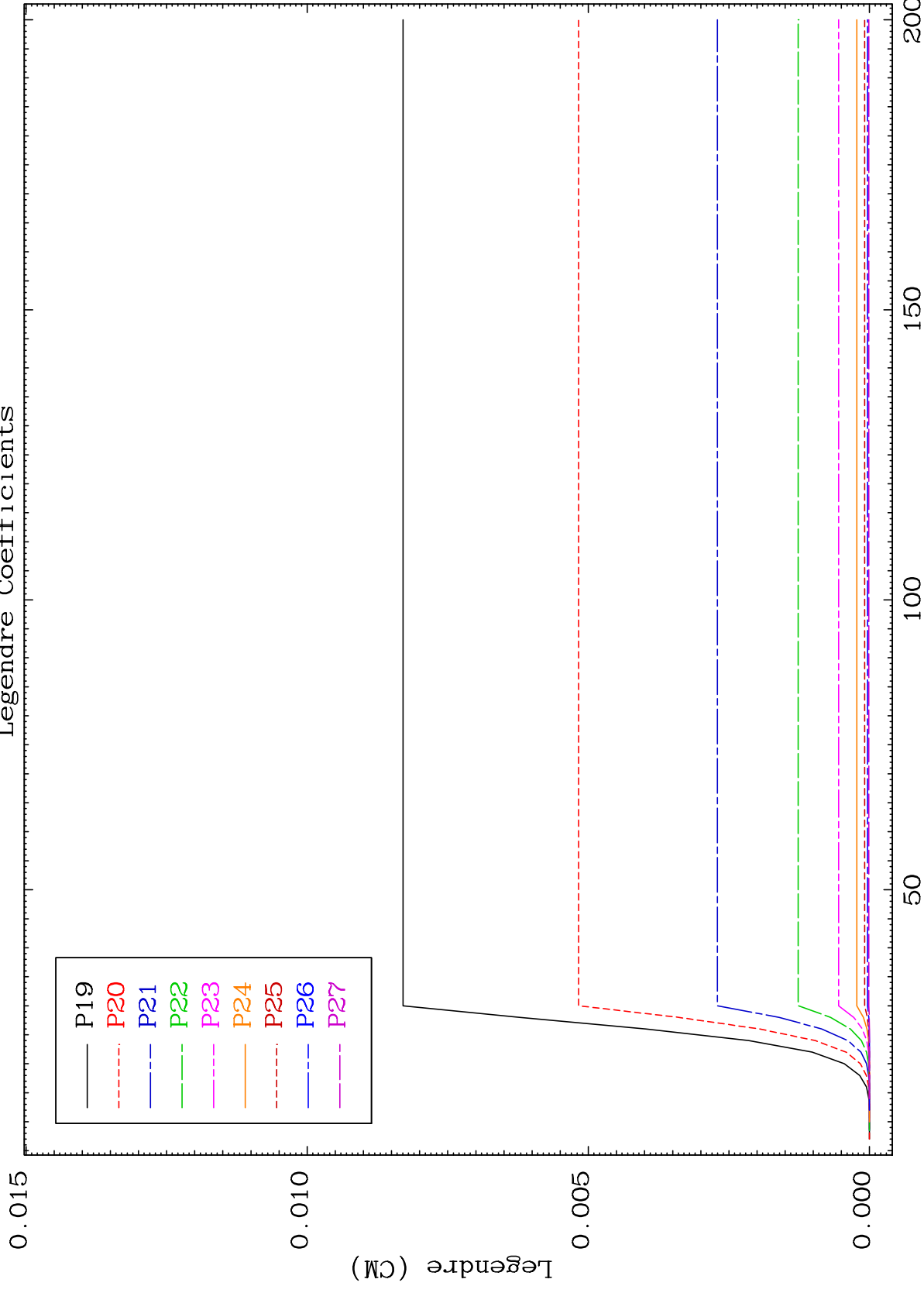
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



37

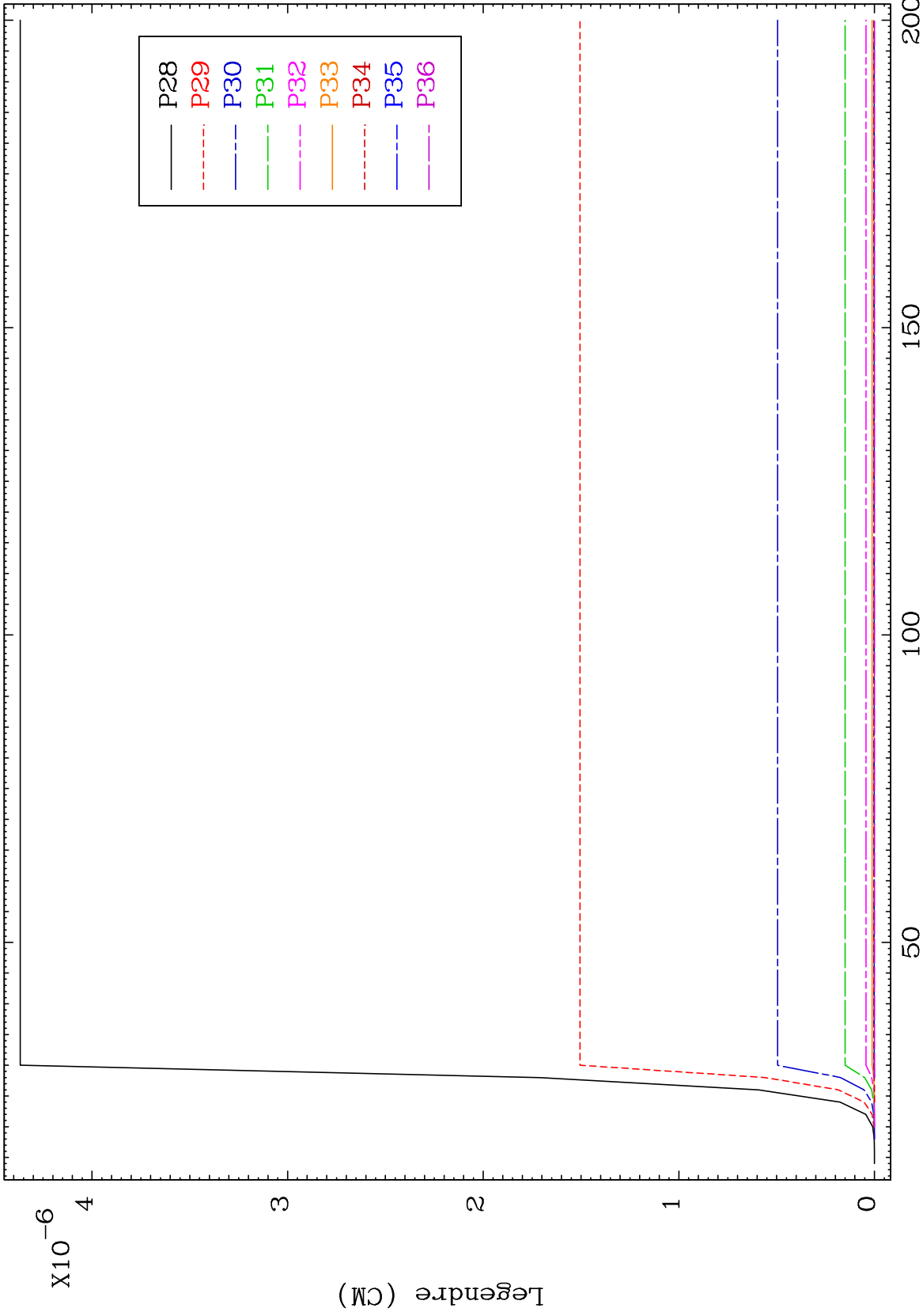
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



38

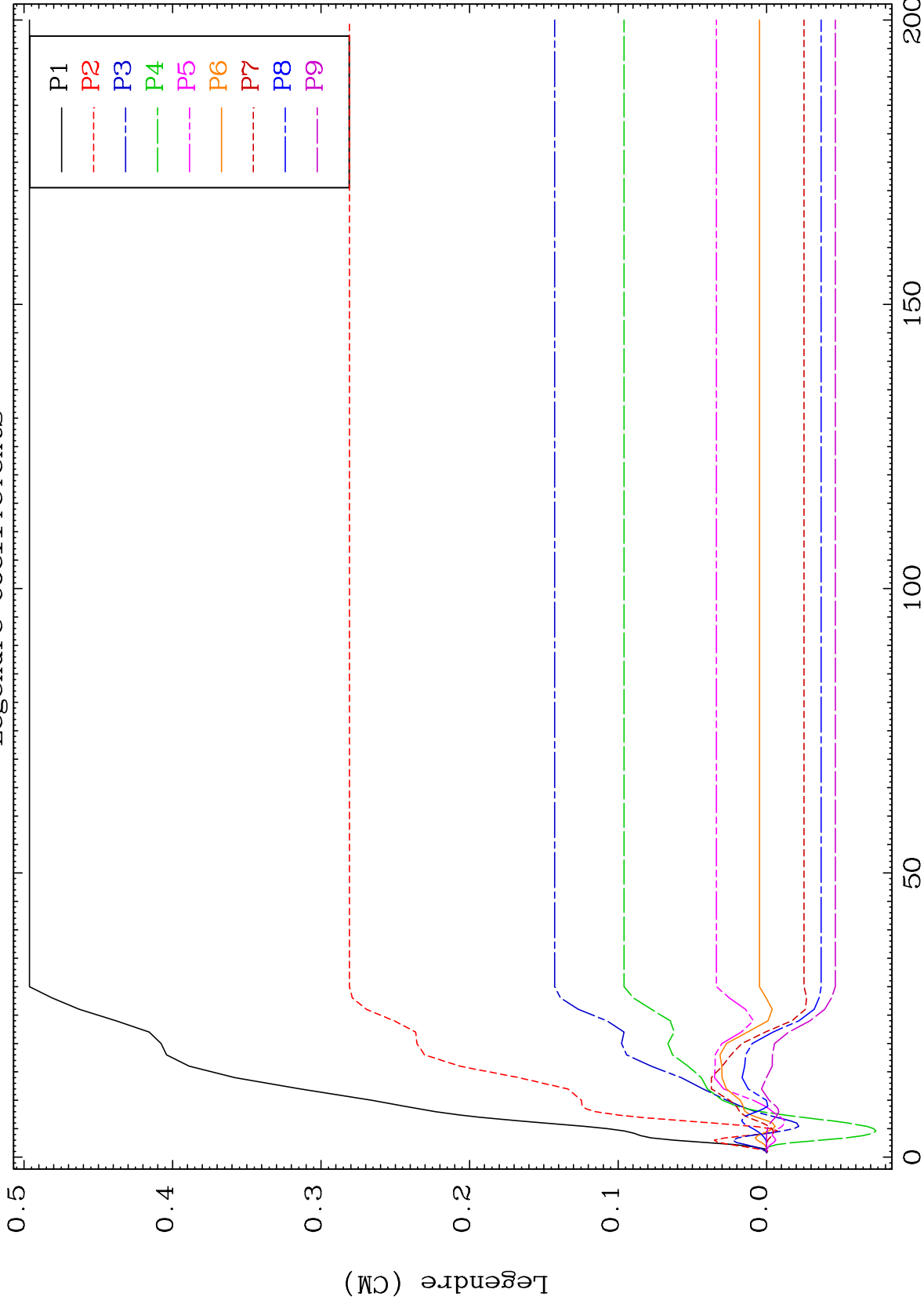
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



39

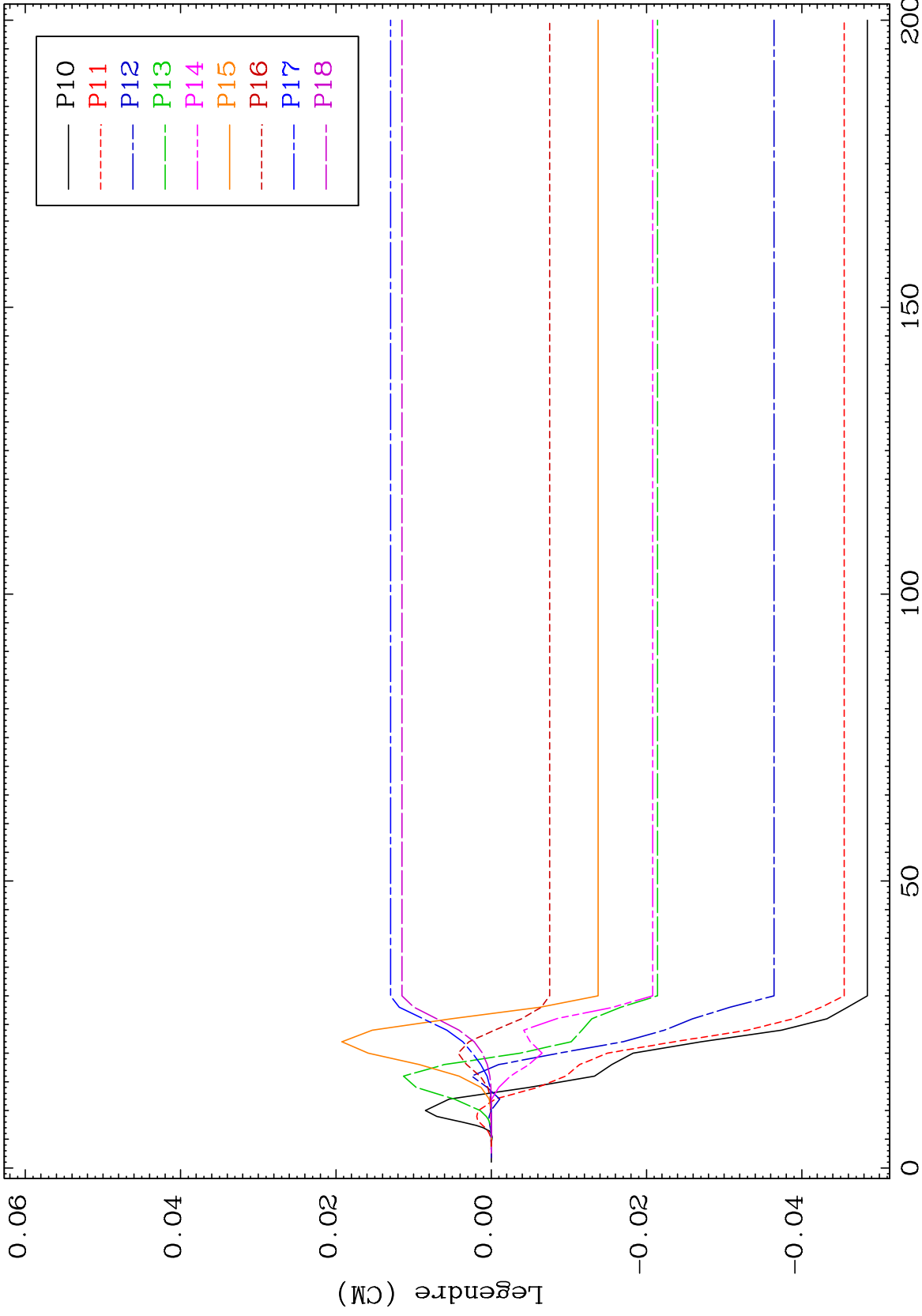
53-I -129



MAT 5331

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

53-I -129



40

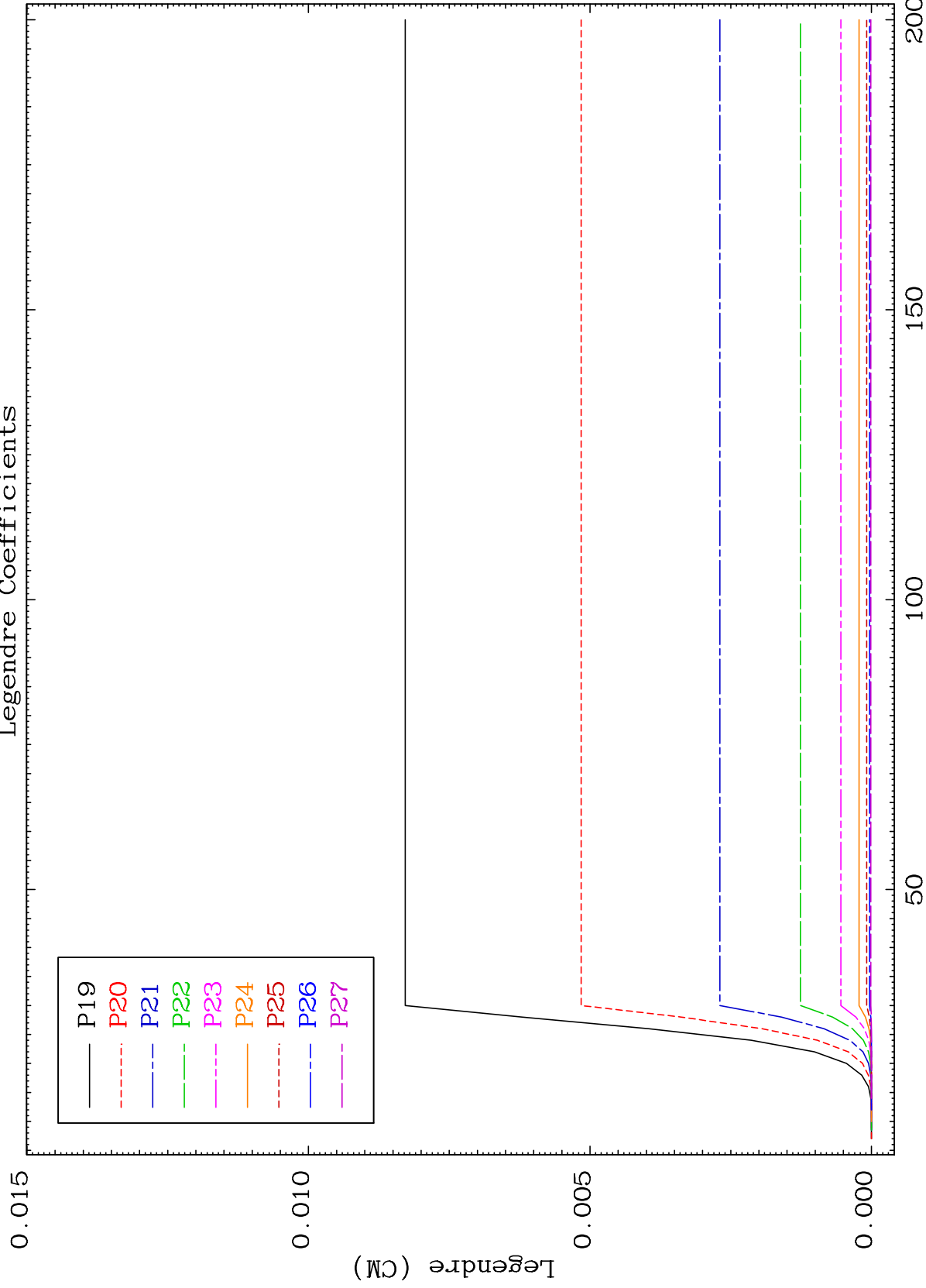
Incident Energy (MeV)

53-I -129

MAT 5331

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

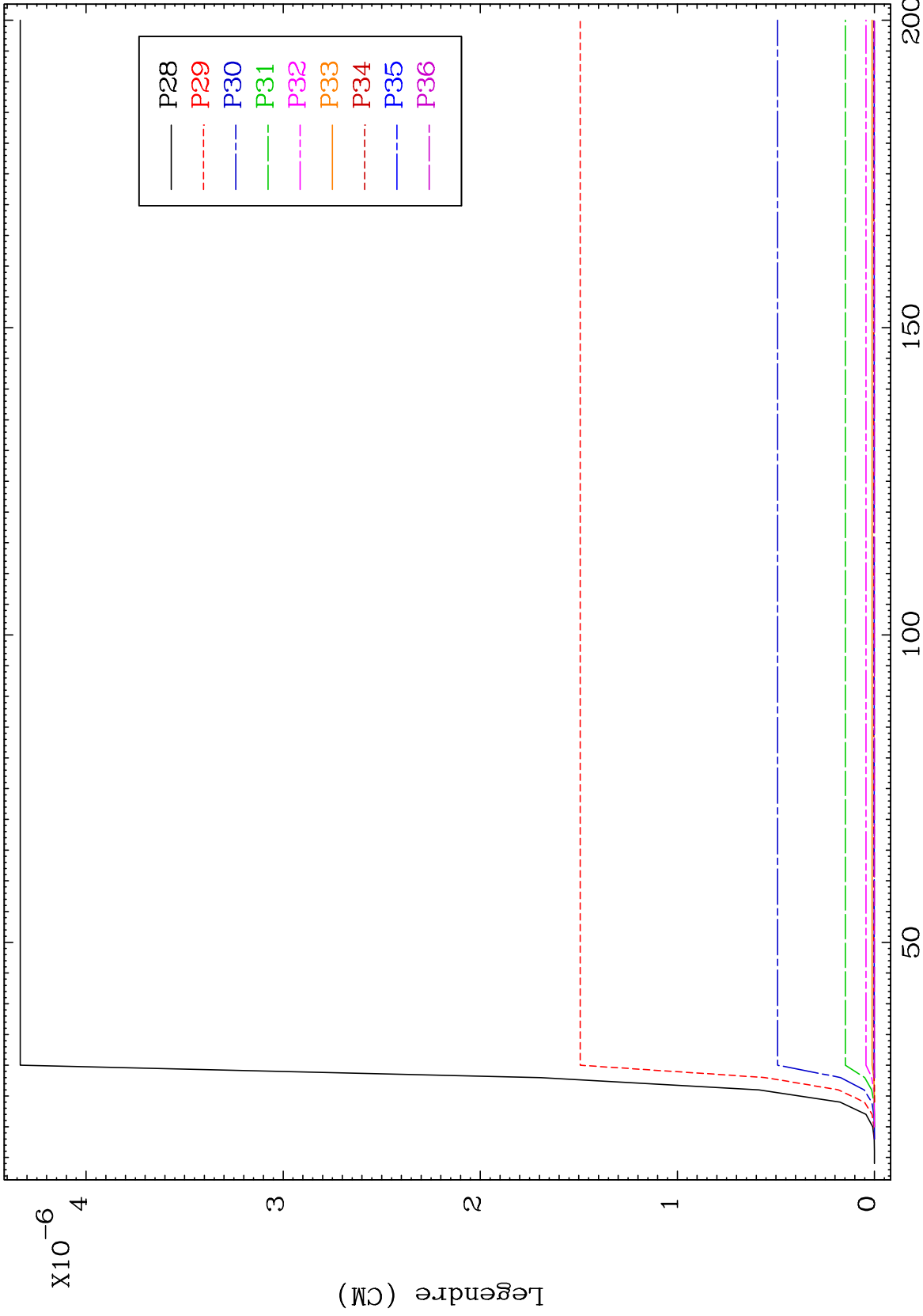
53-I -129



MAT 5331

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

53-I -129



42

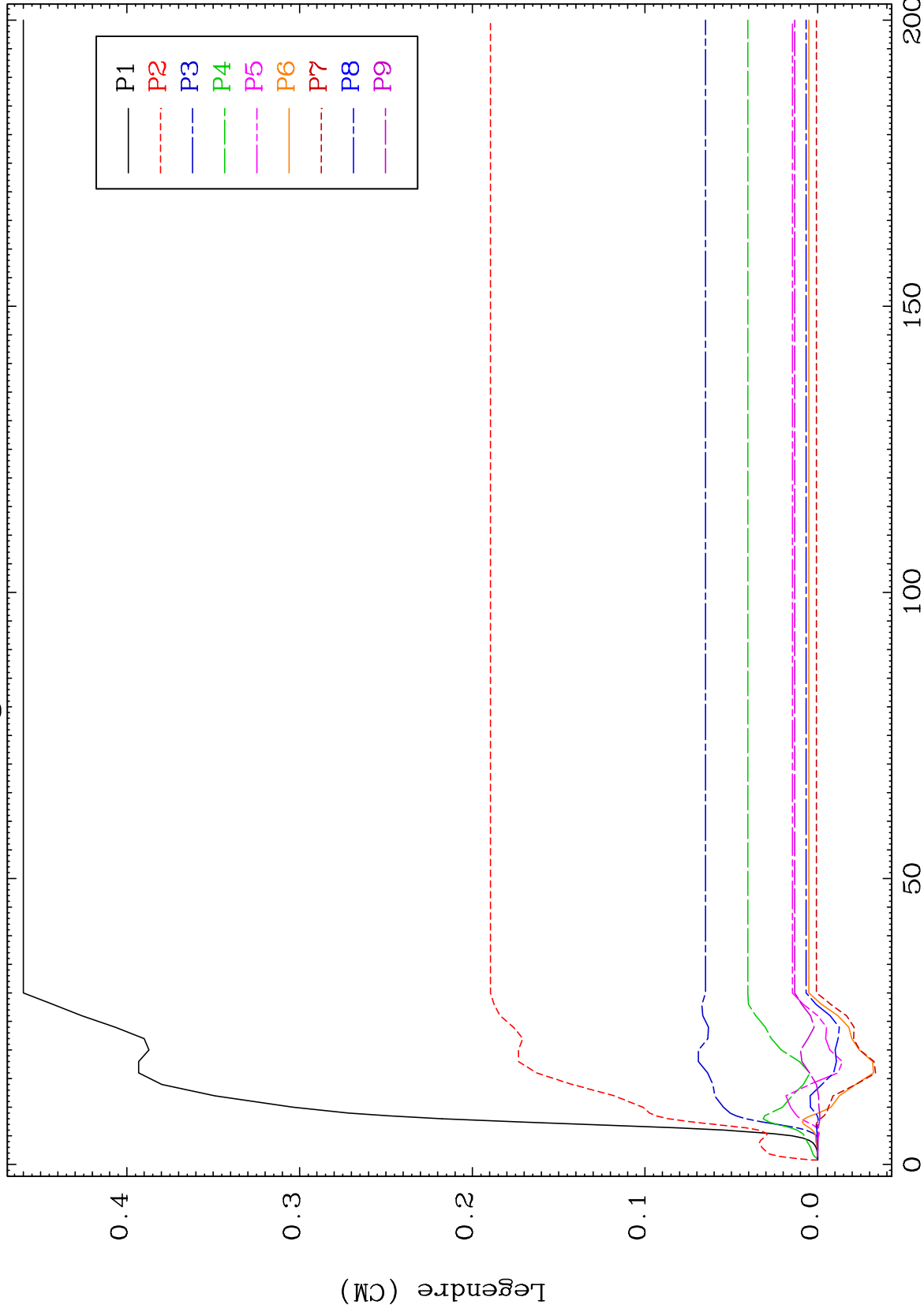
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



43

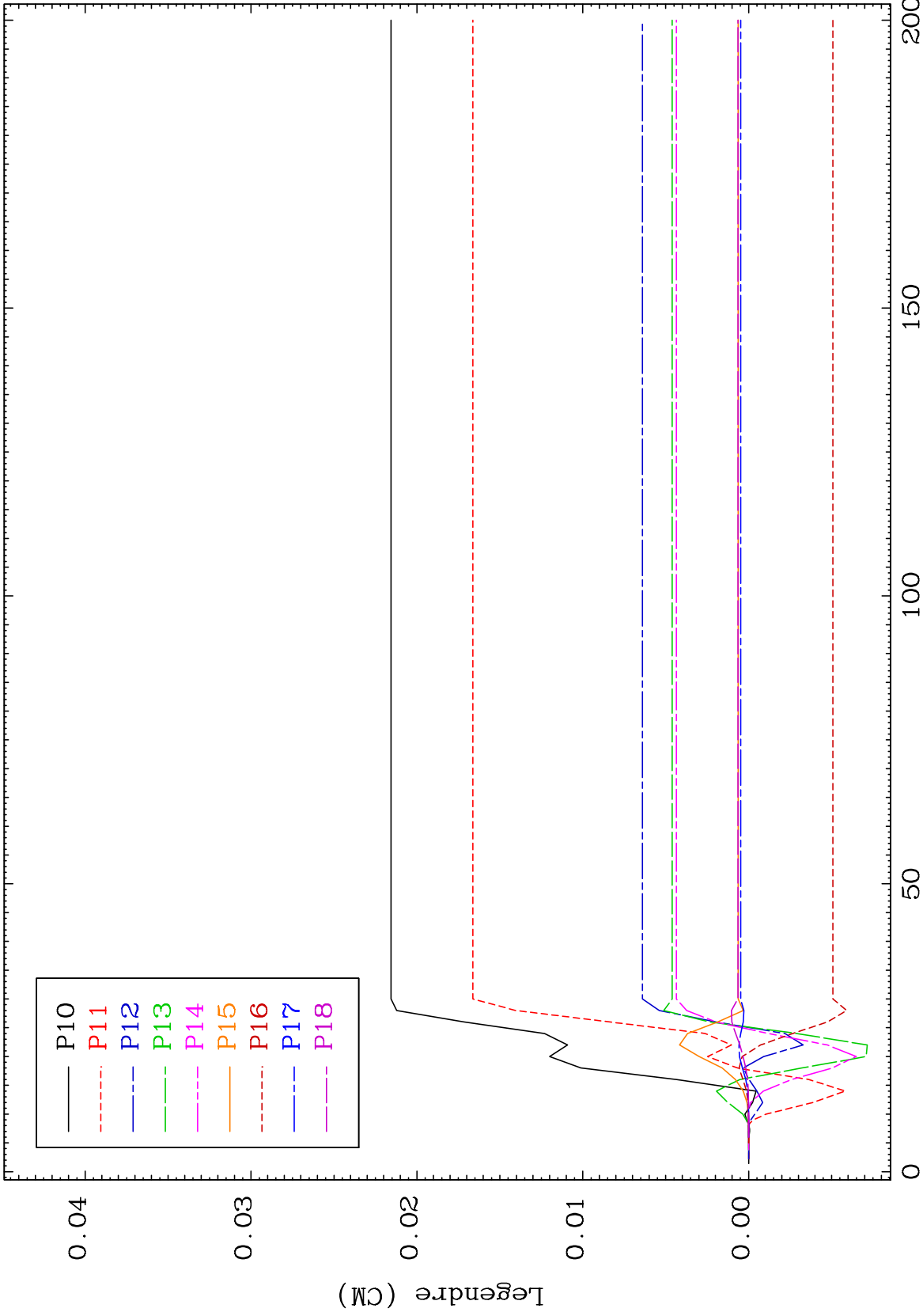
Incident Energy (MeV)

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MAT 5331

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

53-I -129



44

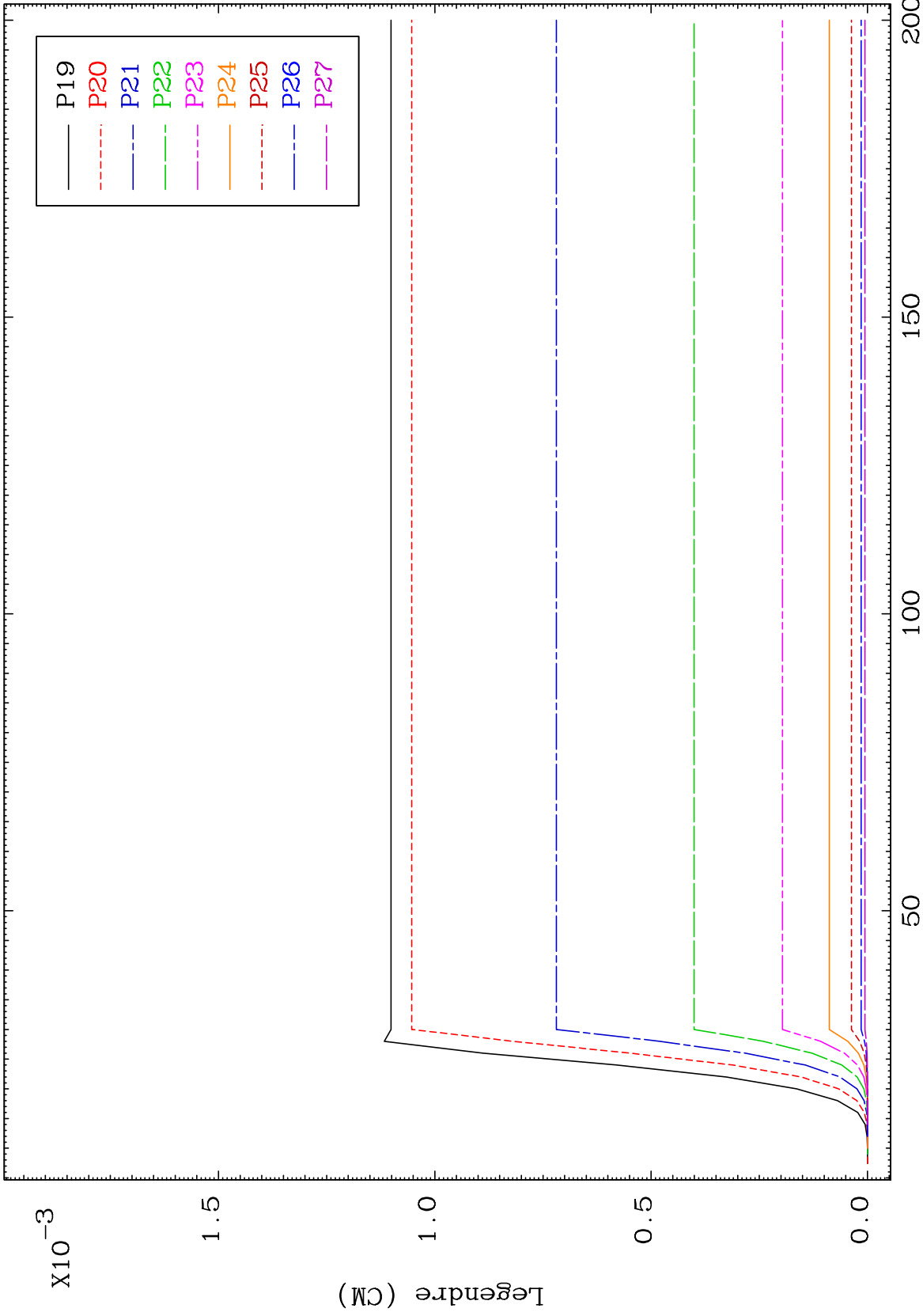
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



45

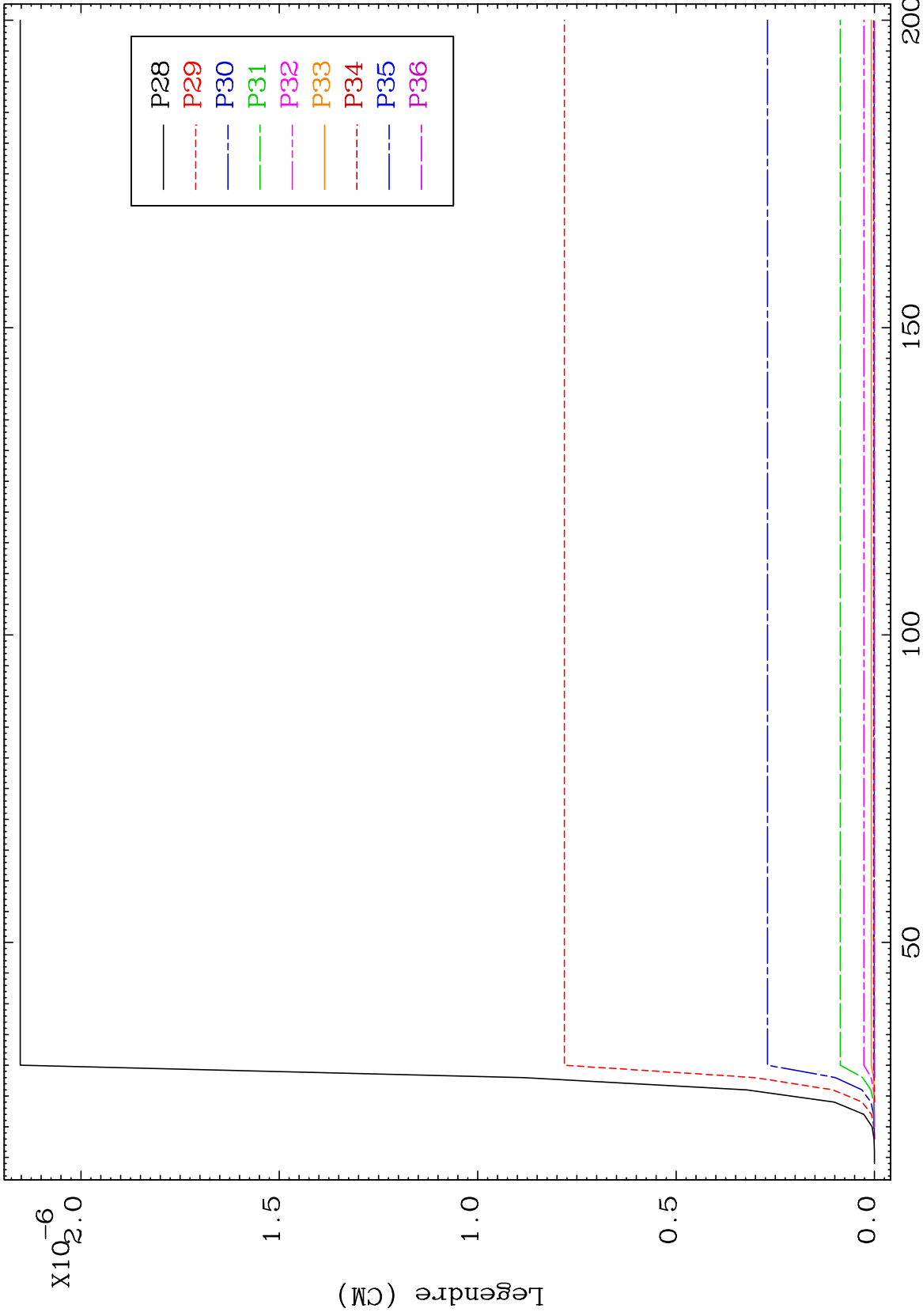
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



46

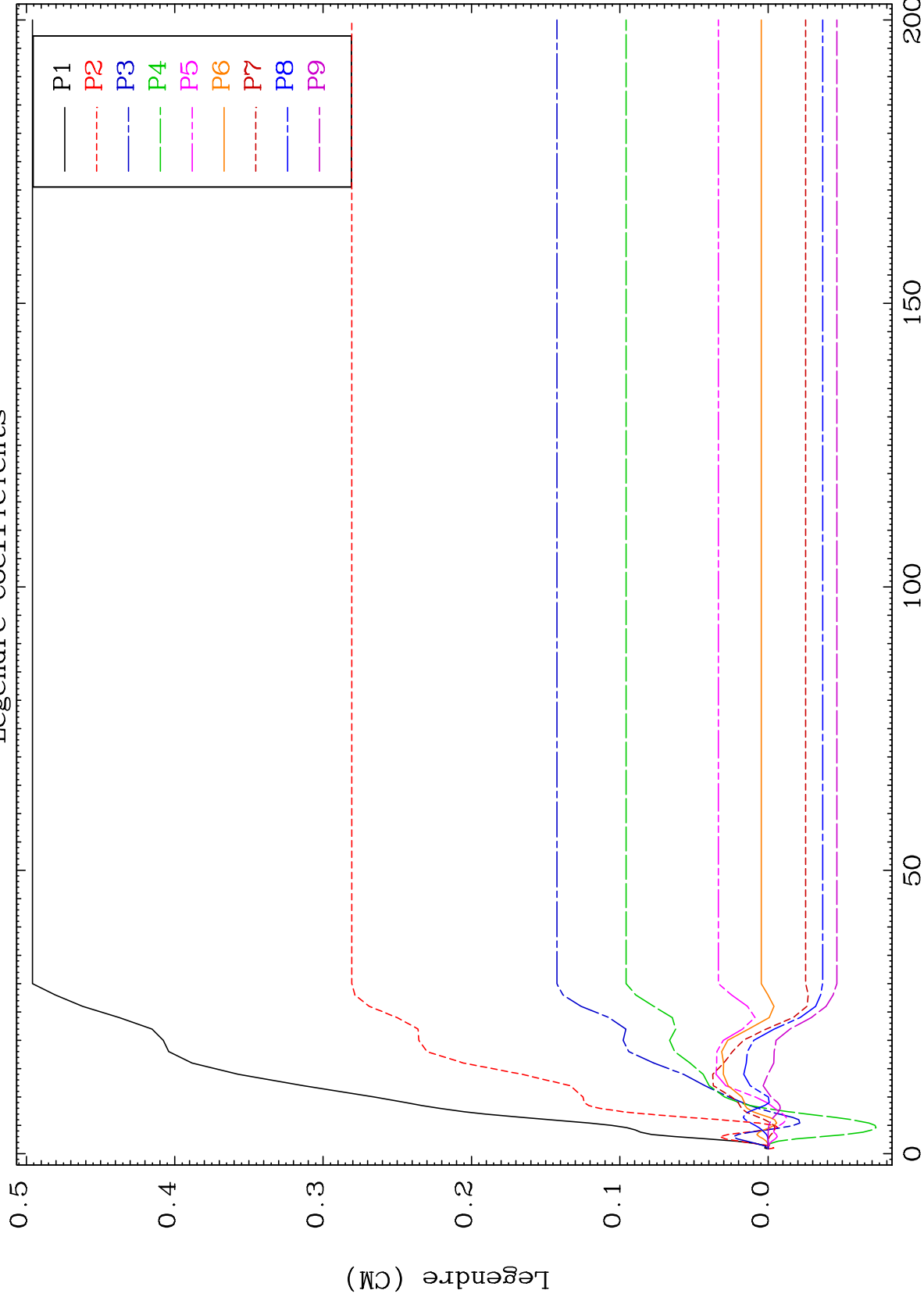
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



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Incident Energy (MeV)

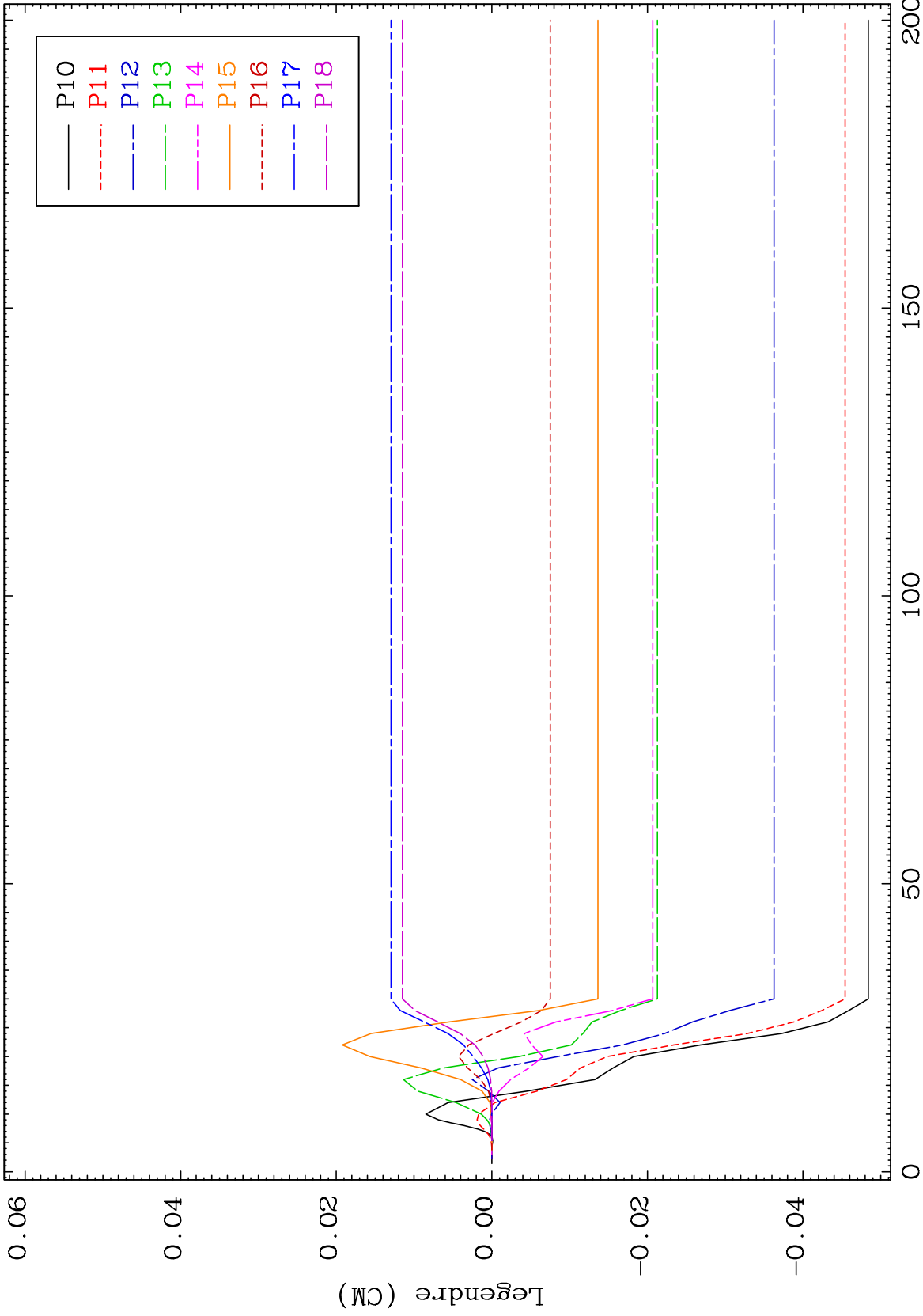
53-I -129



MAT 5331

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

53-I -129



48

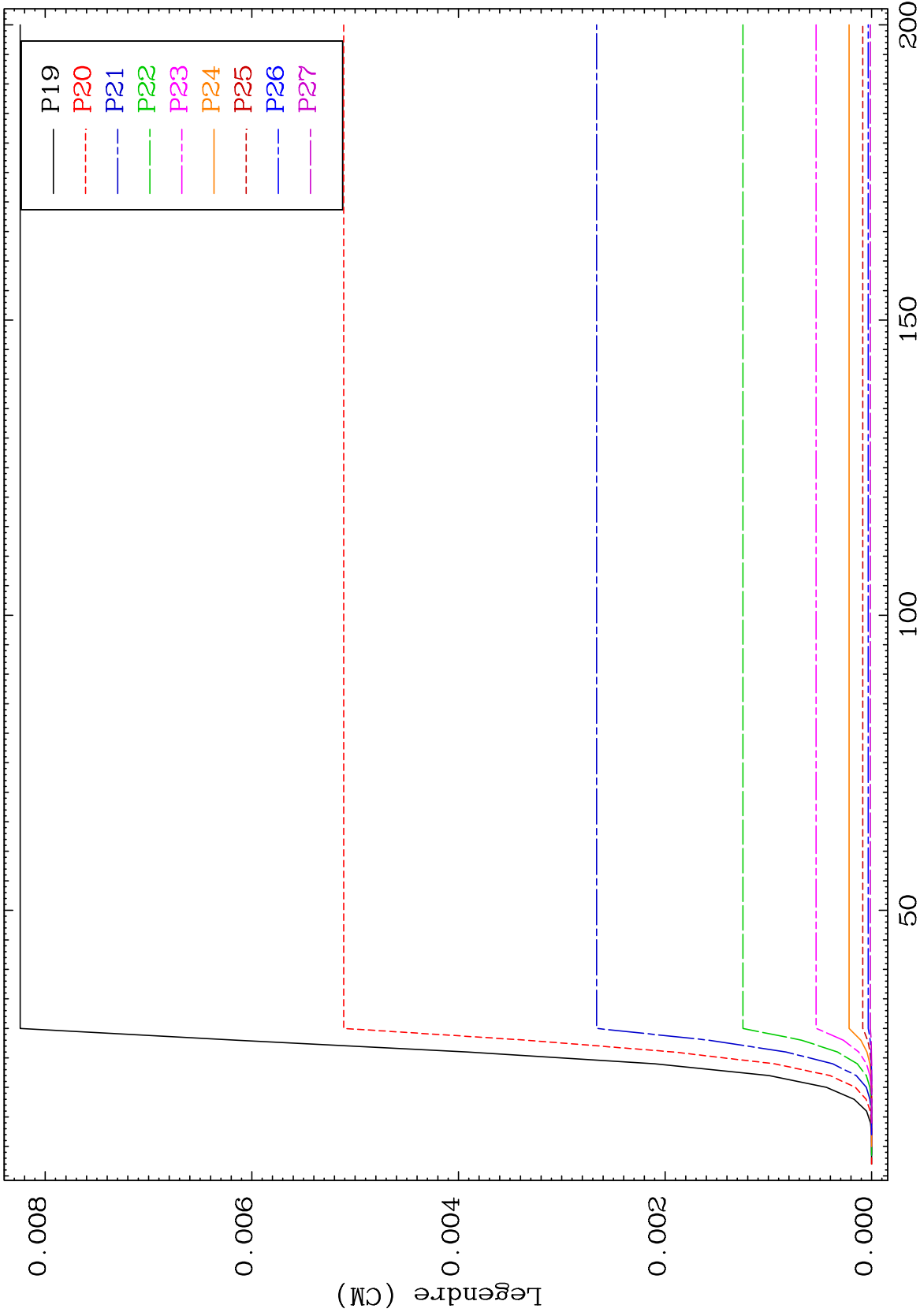
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



49

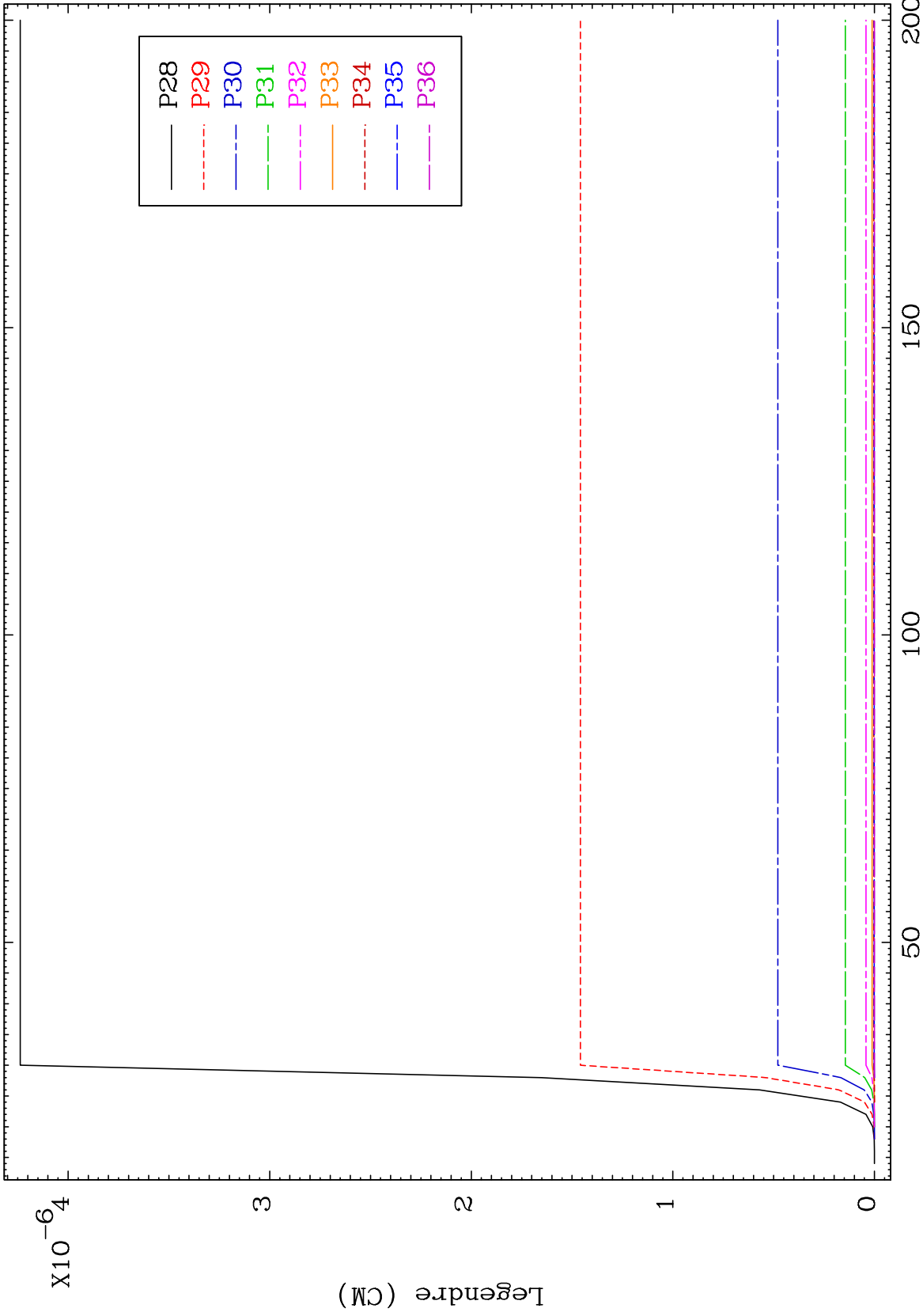
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



50

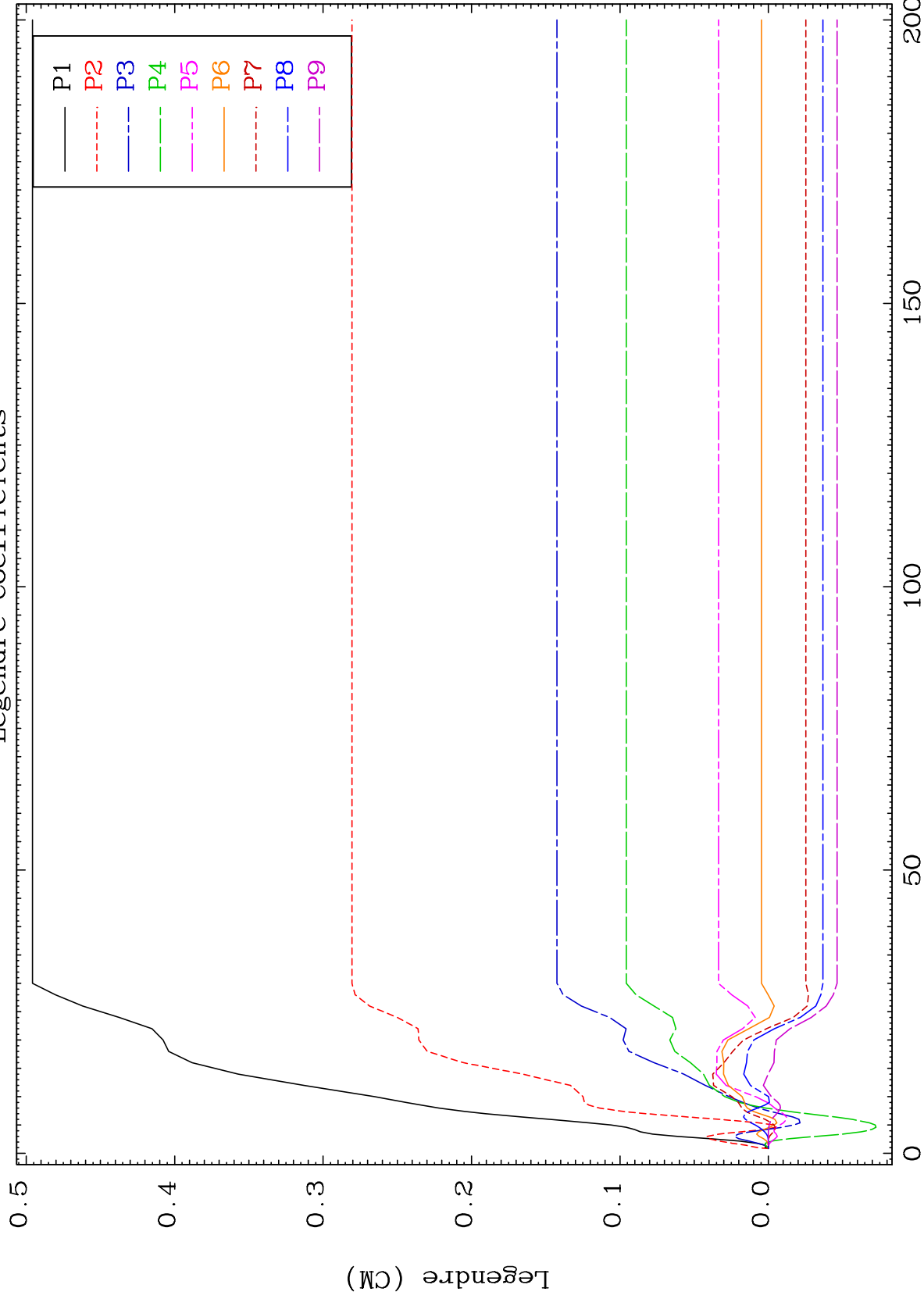
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



51

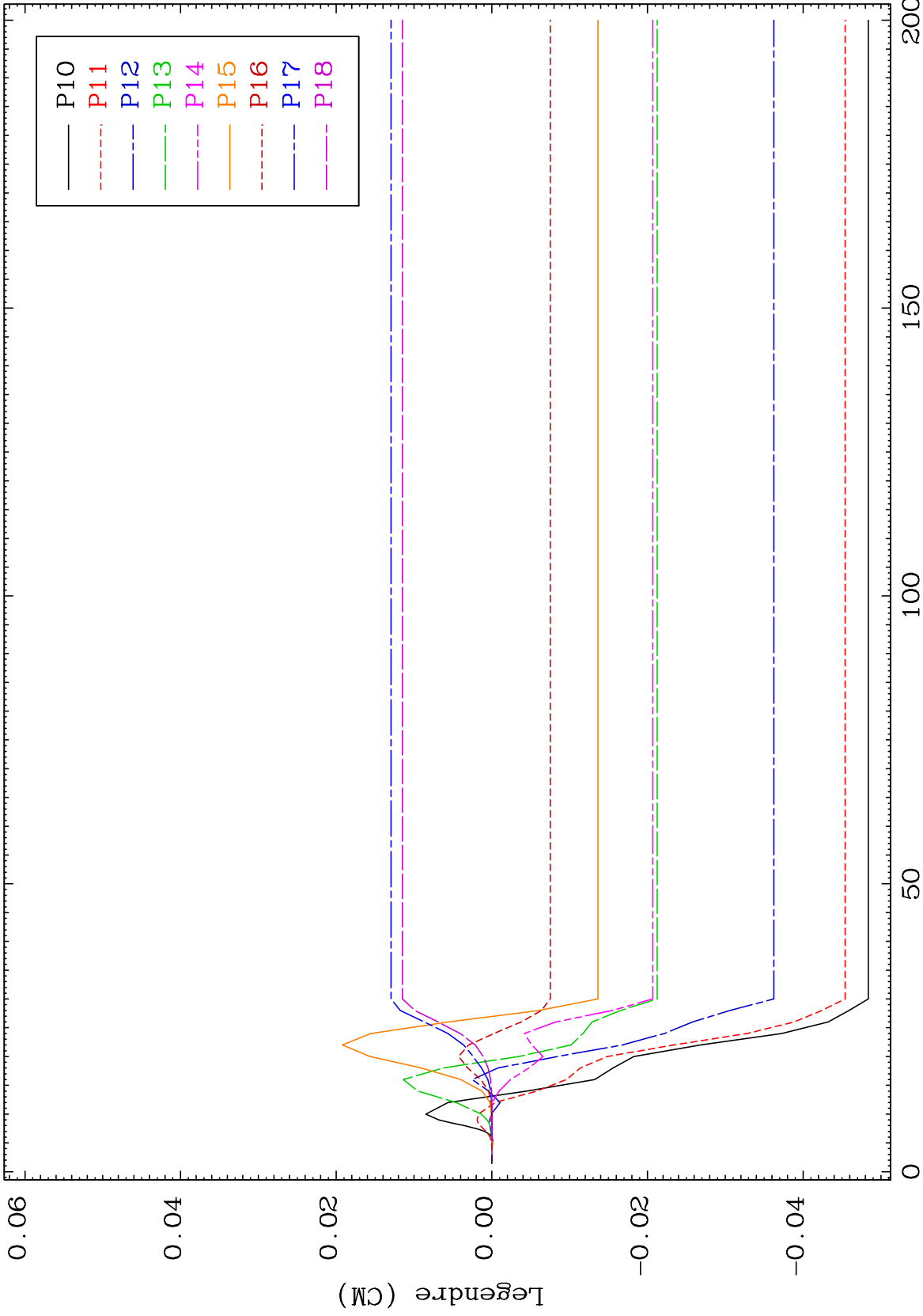
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



52

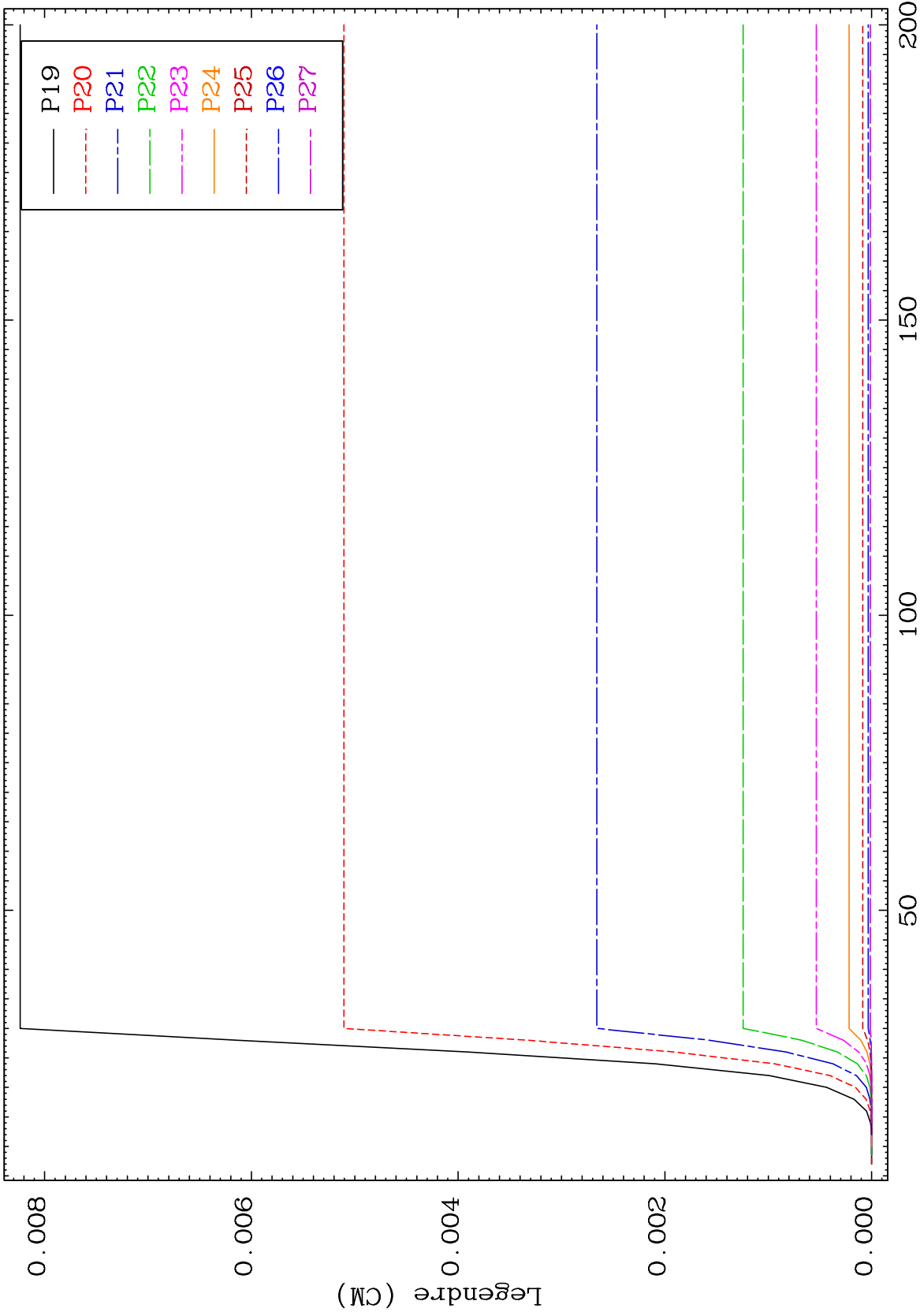
Incident Energy (MeV)

53-I -129

MAT 5331

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

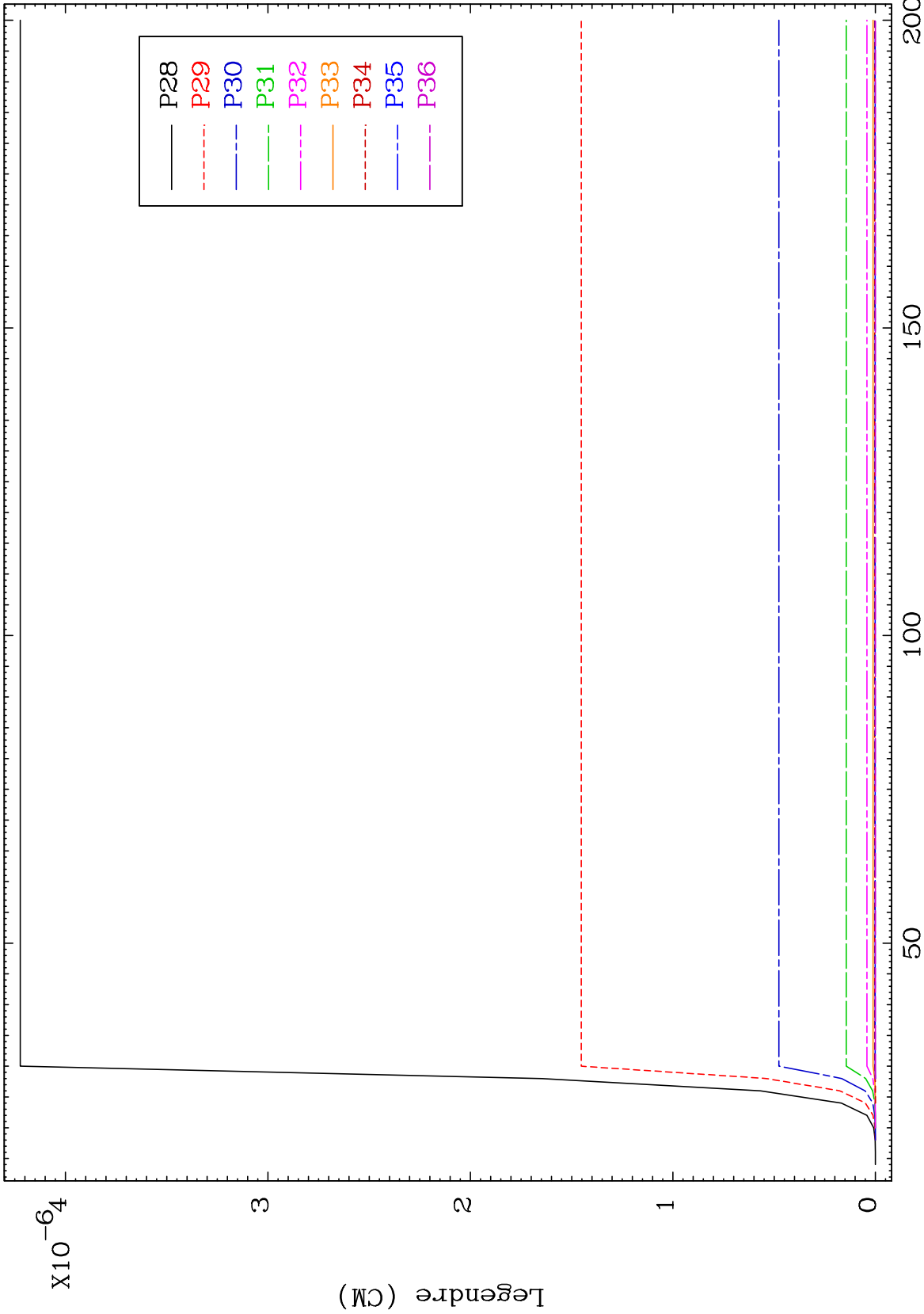
53-I -129



53

Incident Energy (MeV)

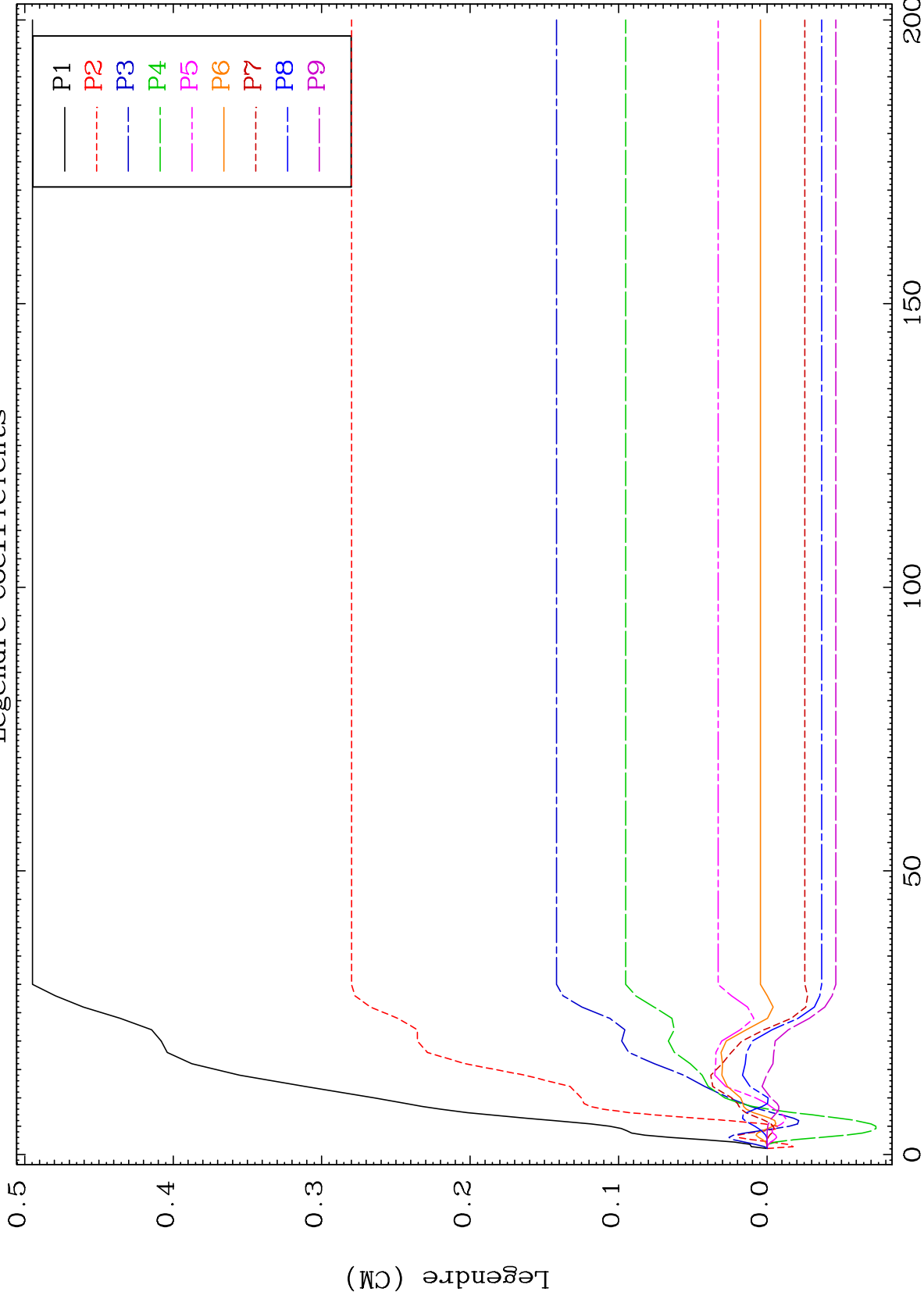
53-I -129



MAT 5331

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

53-I -129



55

Incident Energy (MeV)

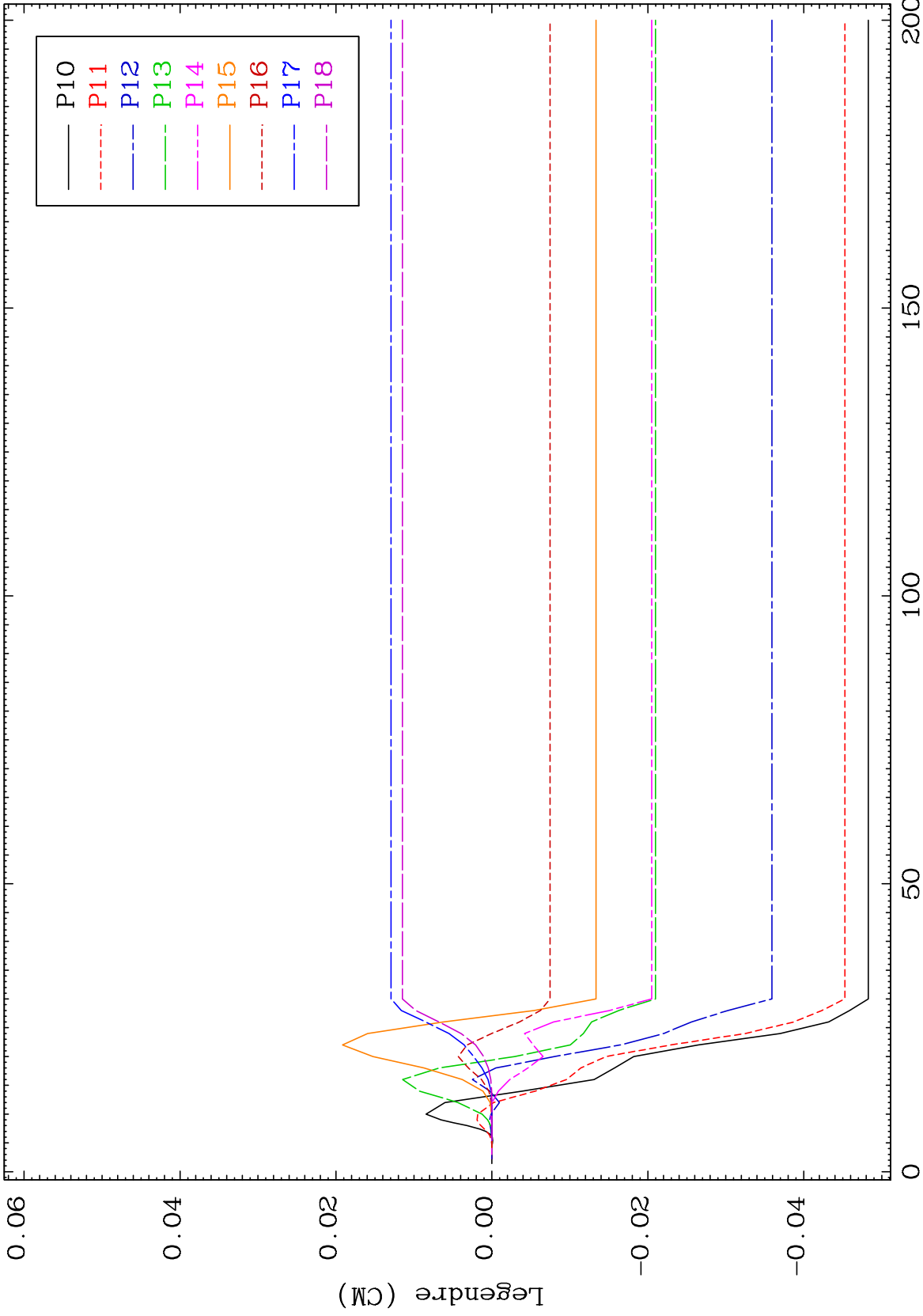
53-I -129



MAT 5331

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

53-I -129



56

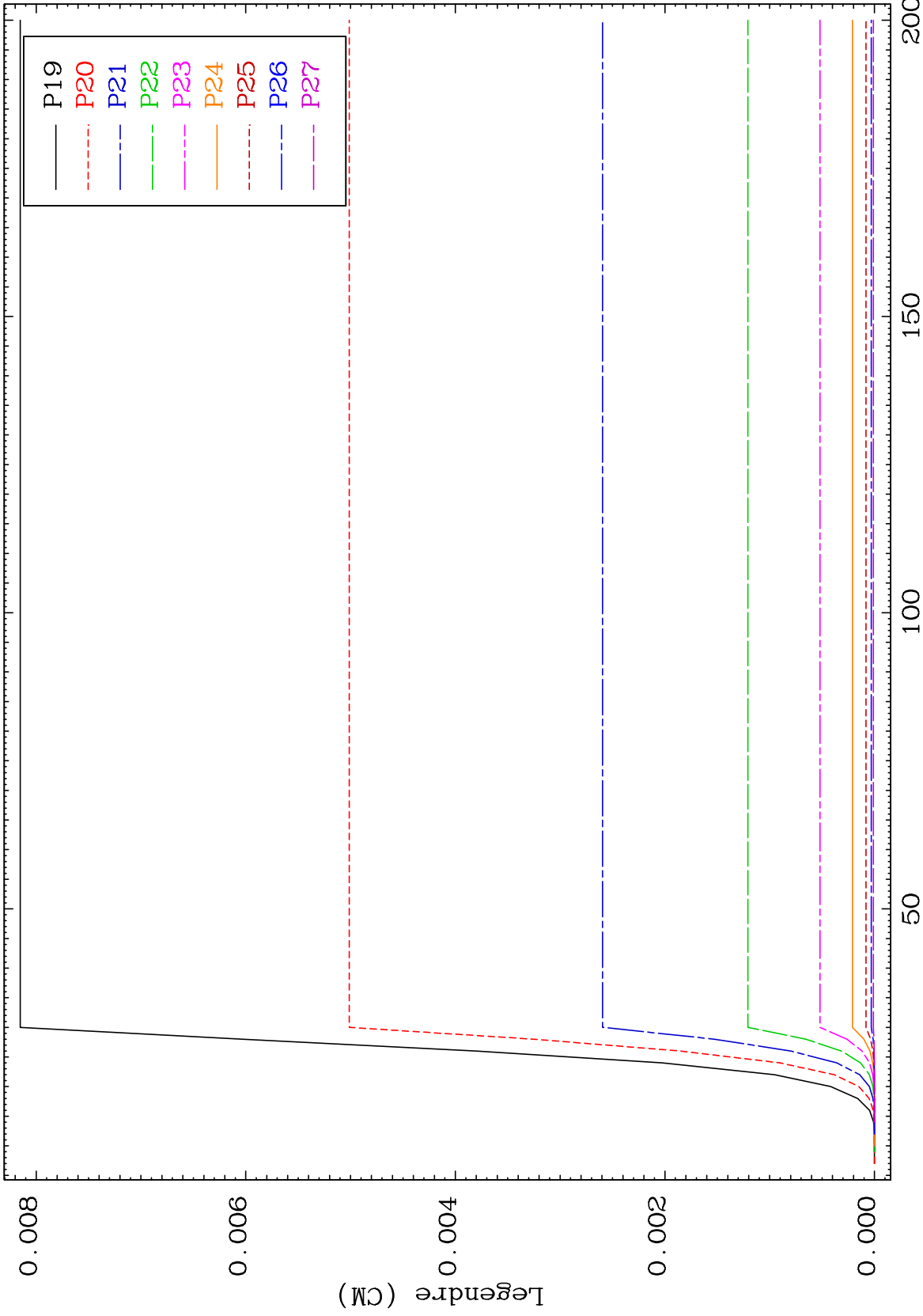
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



57

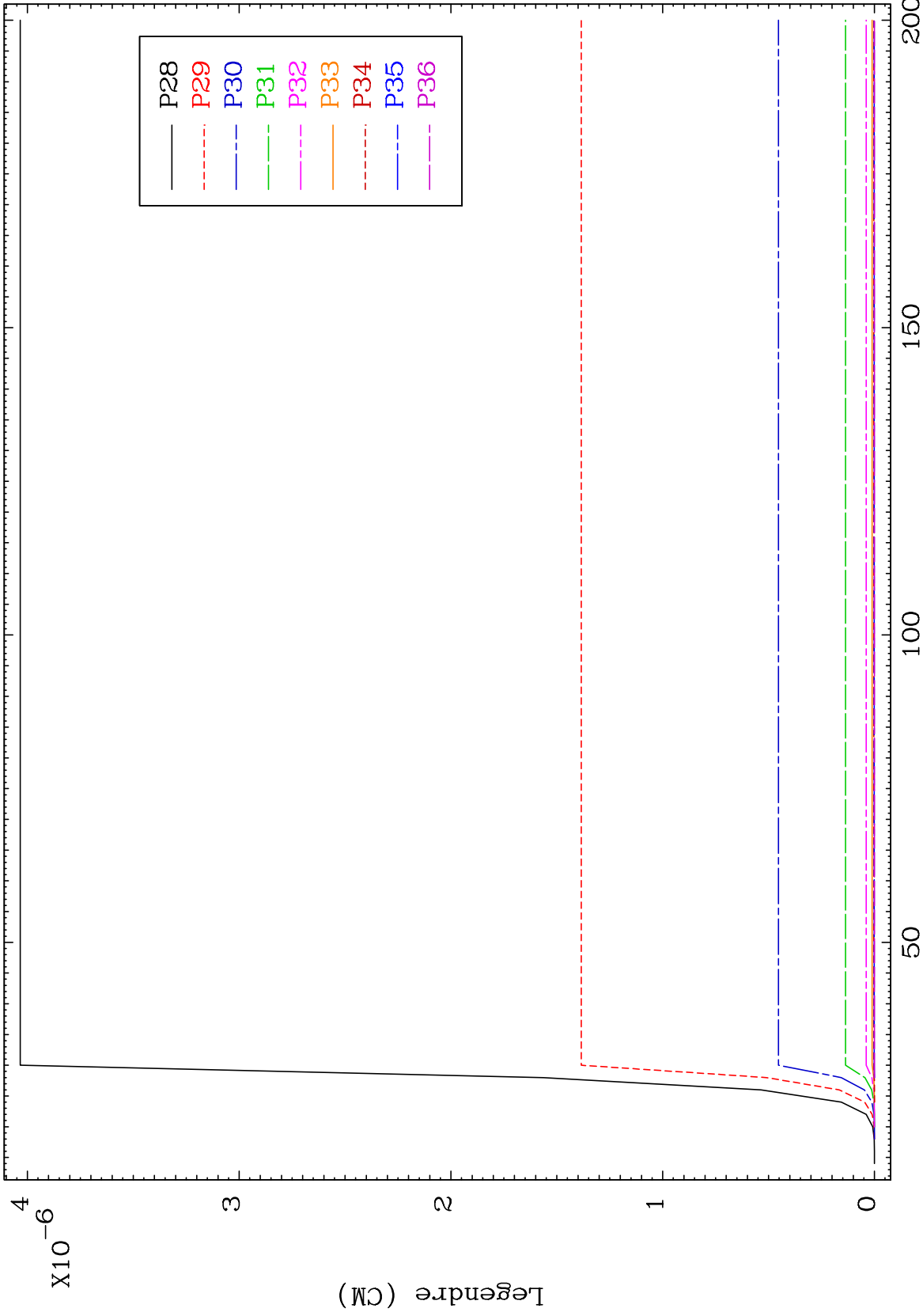
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



58

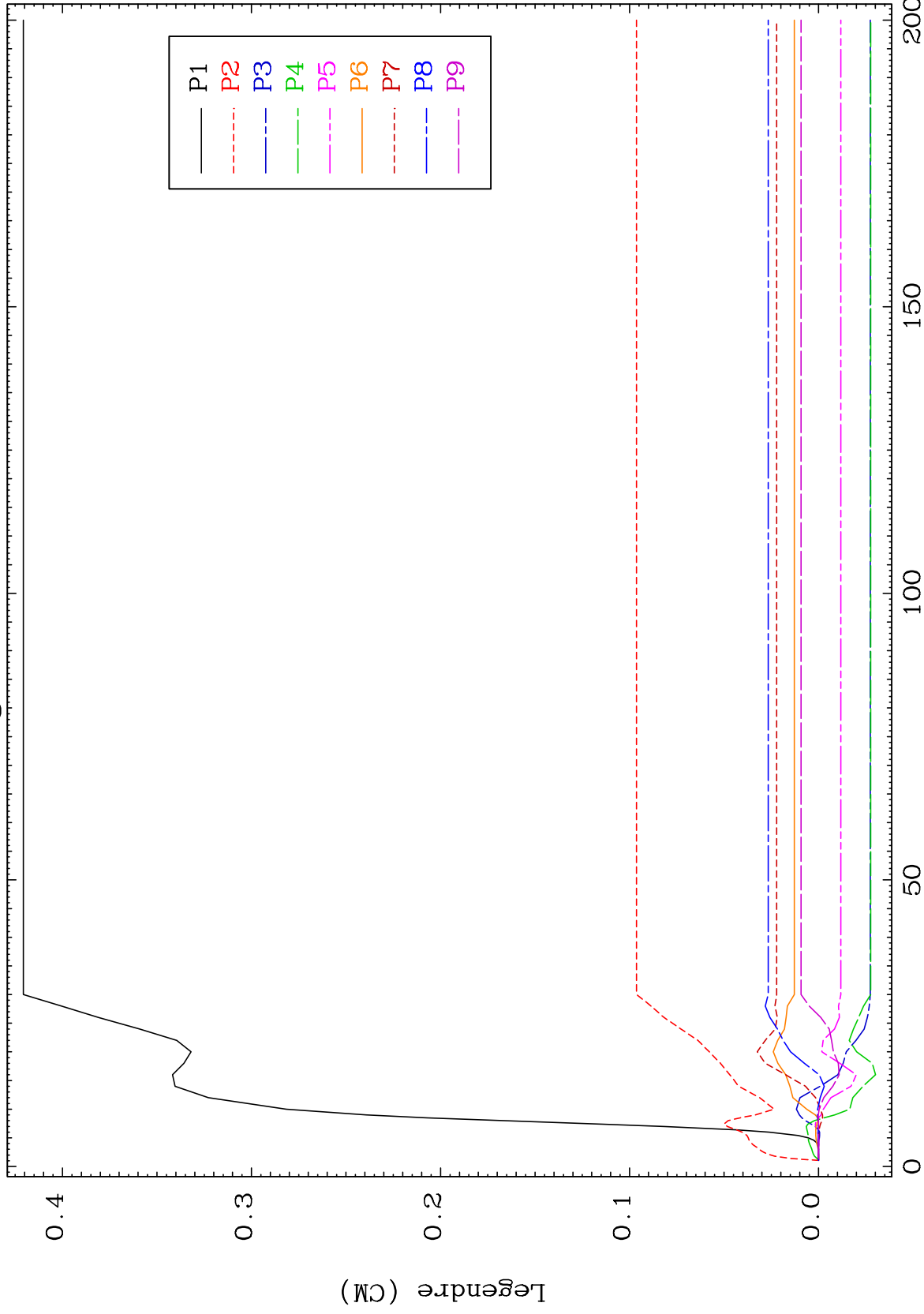
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



59

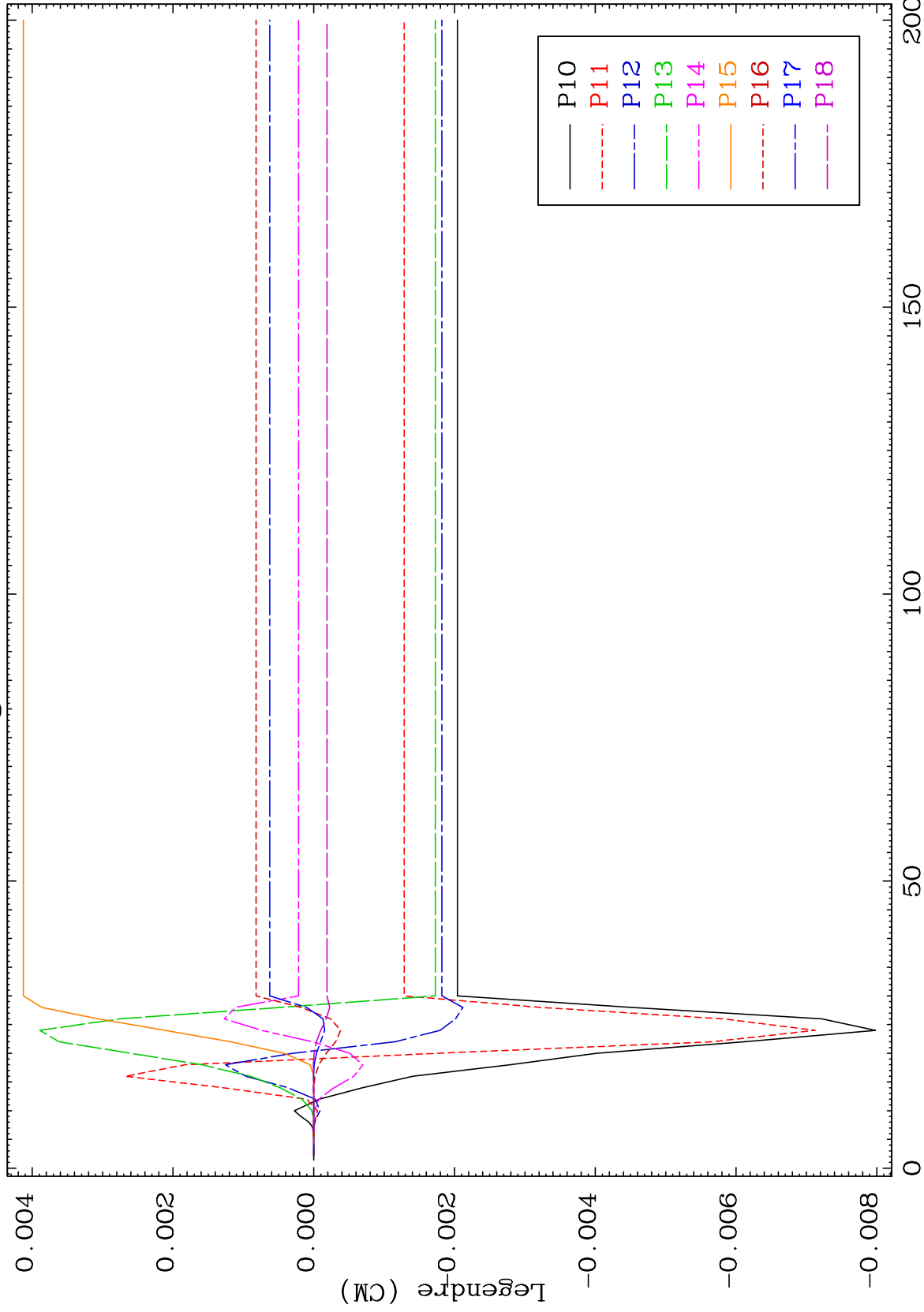
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



60

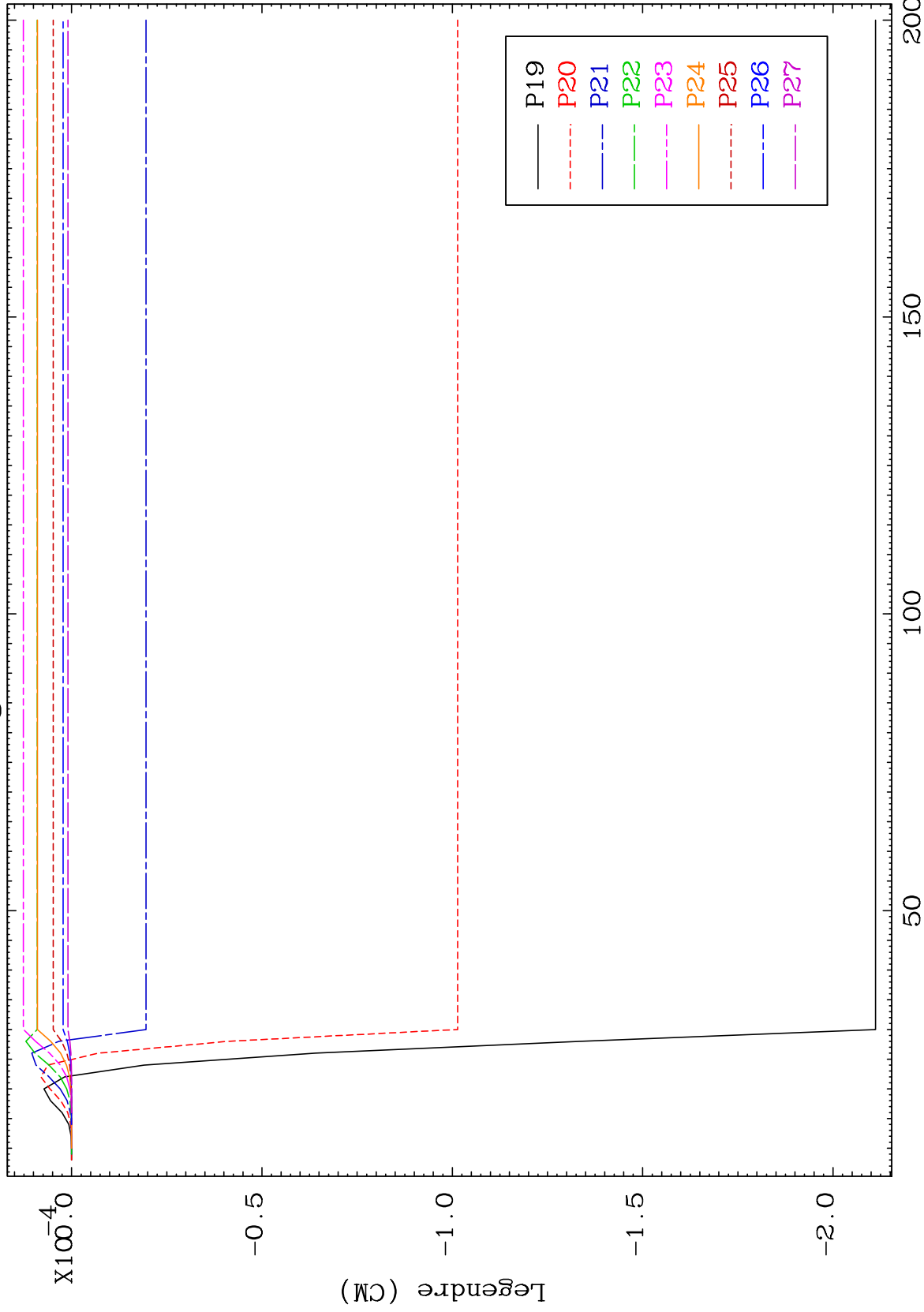
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



61

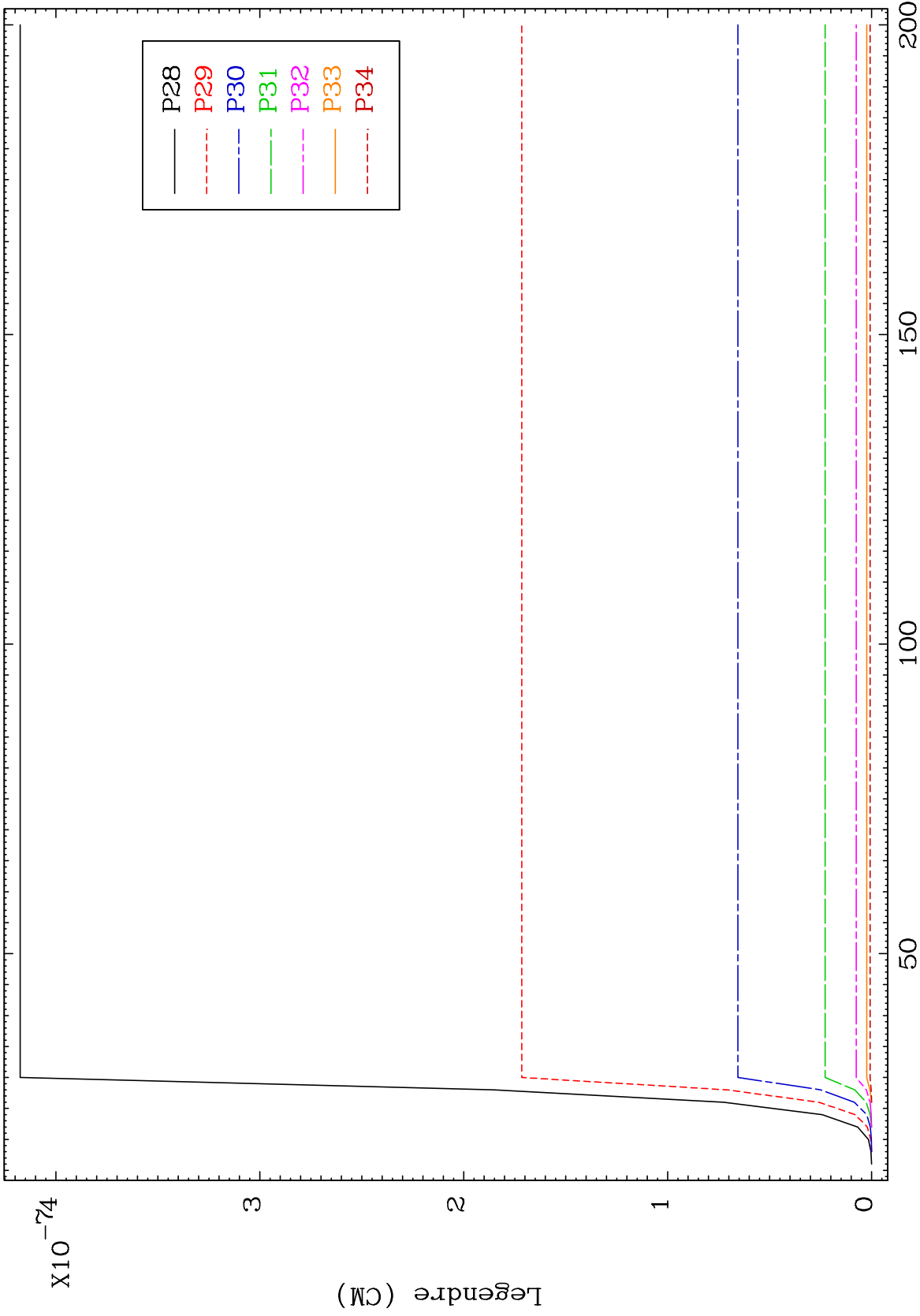
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



62

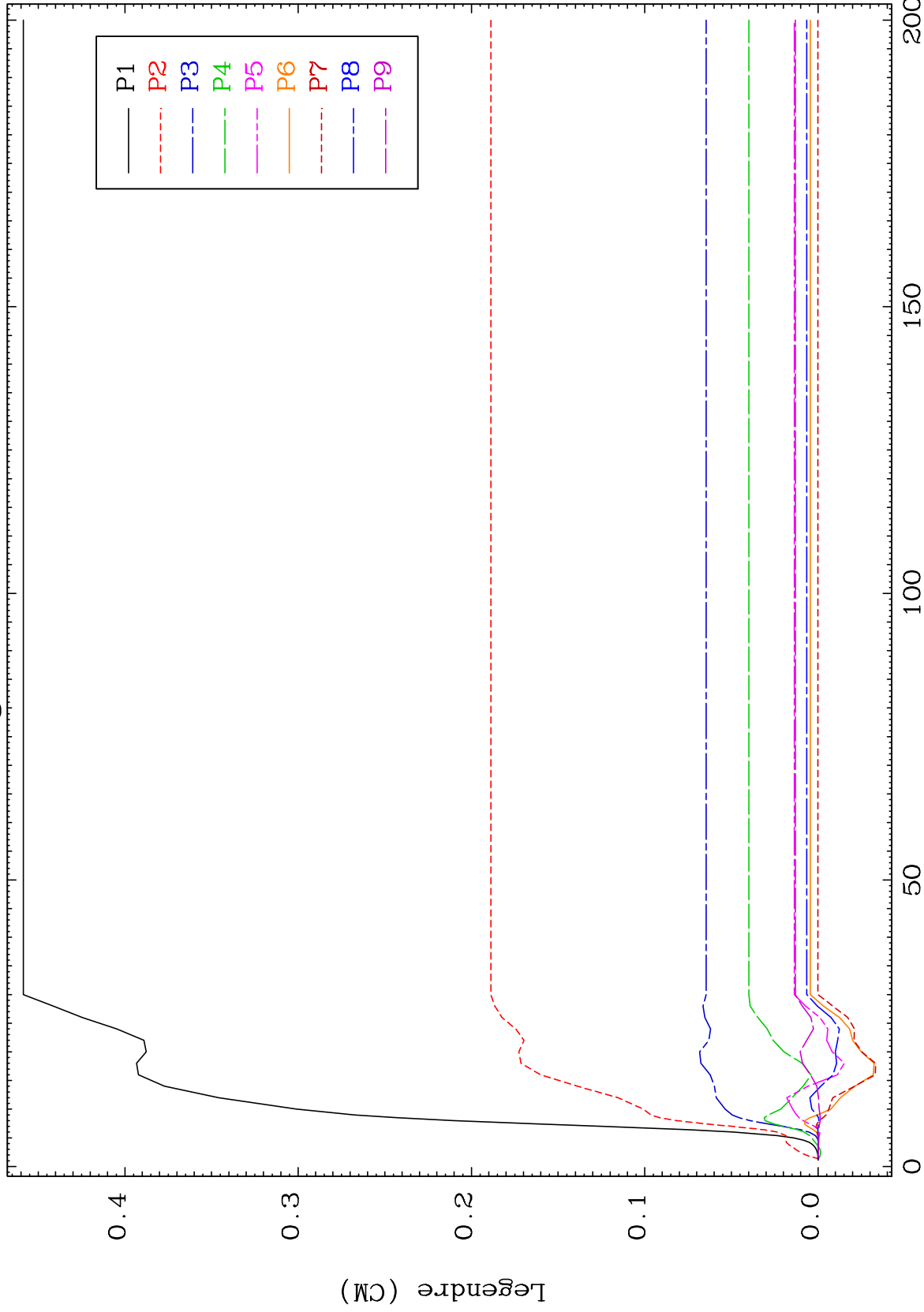
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



63

Incident Energy (MeV)

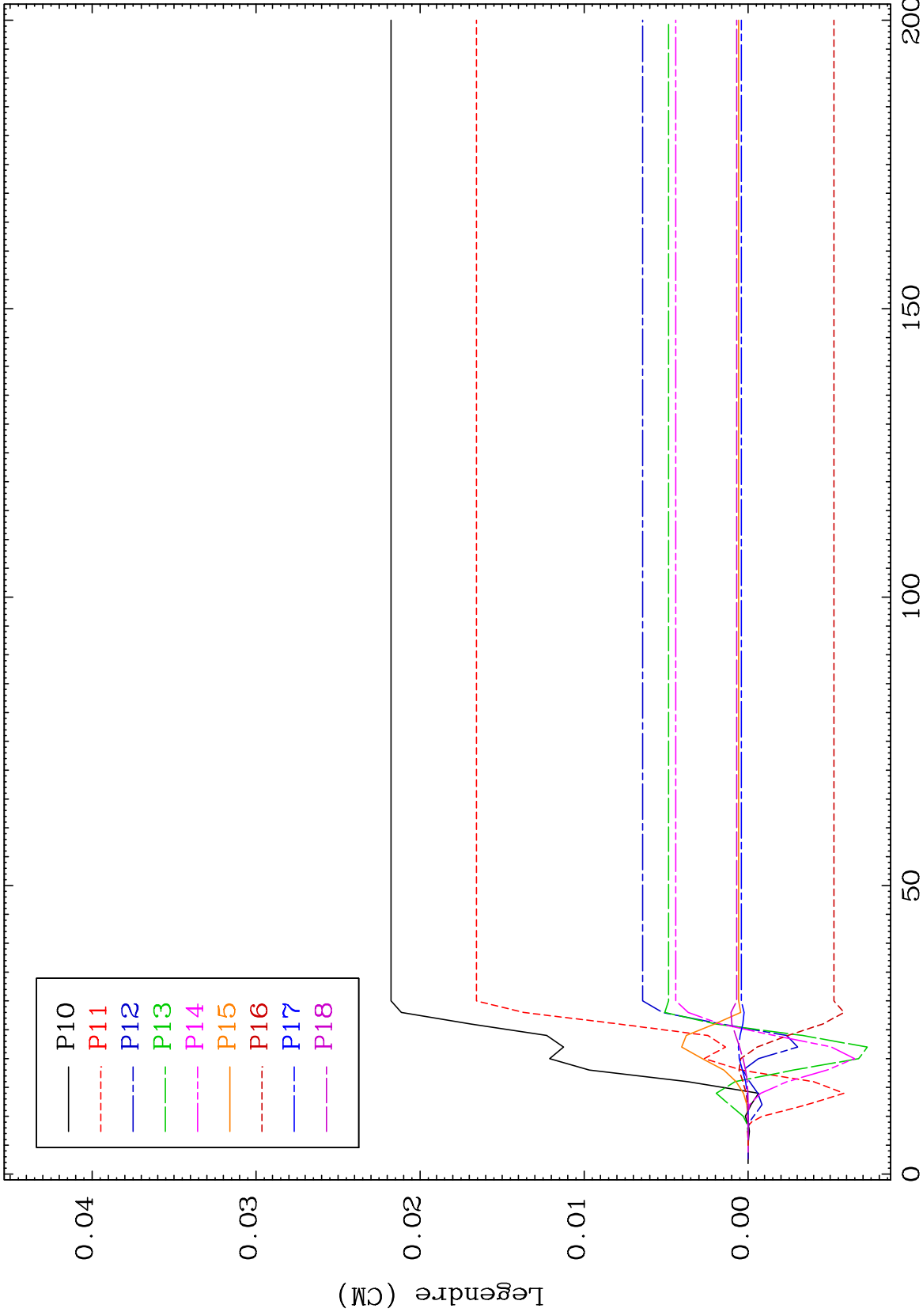
53-I -129



MAT 5331

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

53-I -129



64

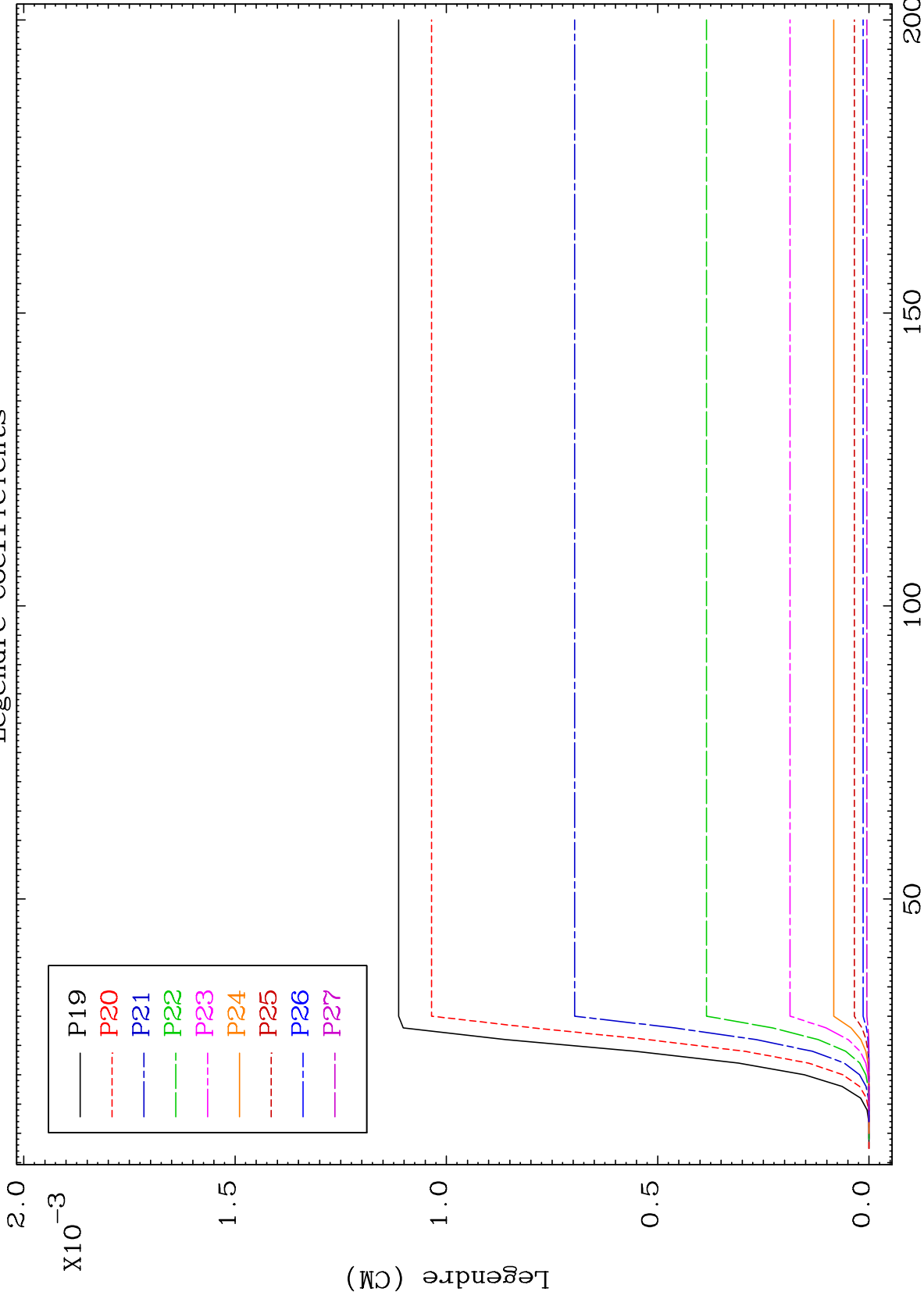
Incident Energy (MeV)

53-I -129

MAT 5331

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

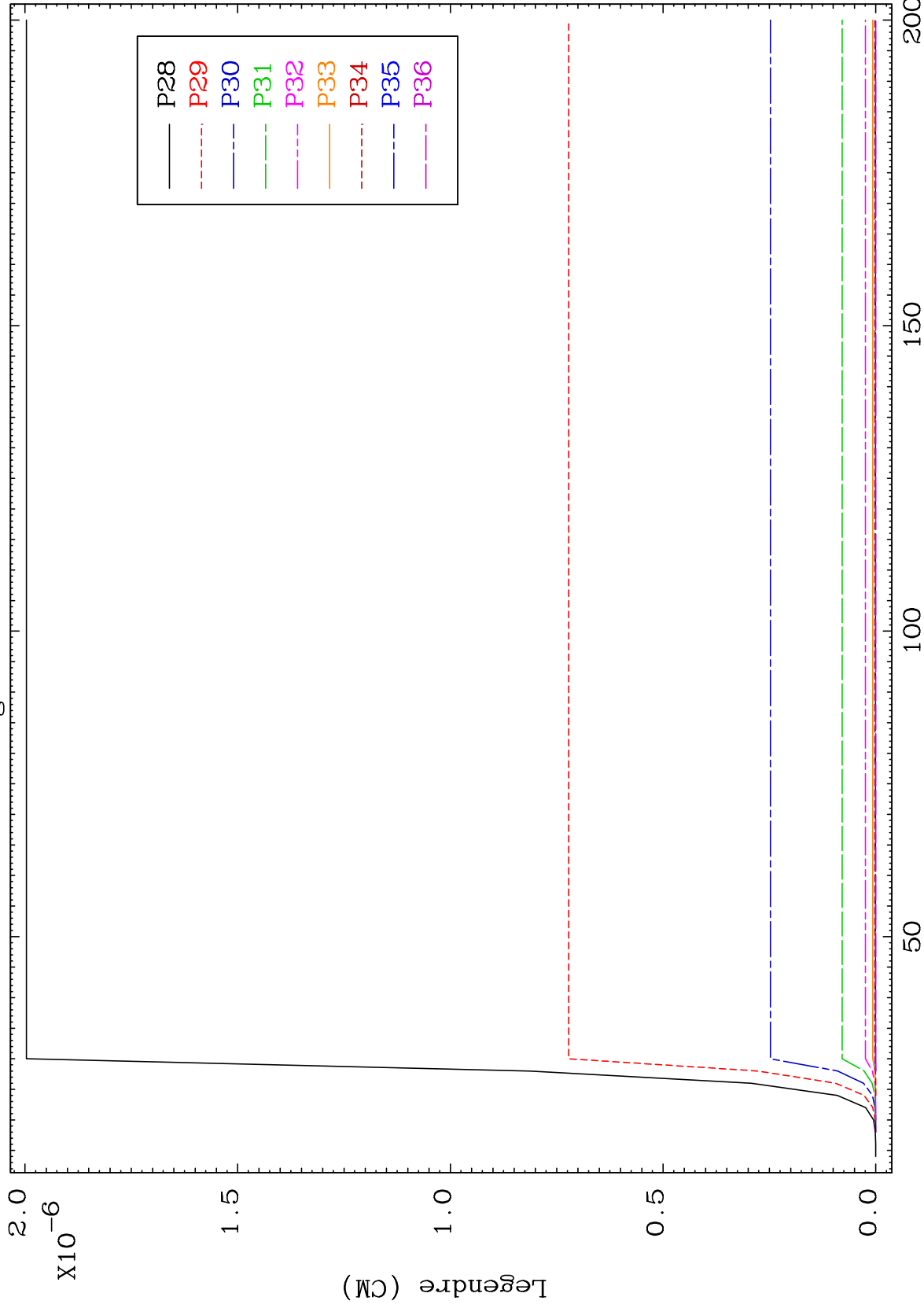
53-I -129



65

Incident Energy (MeV)

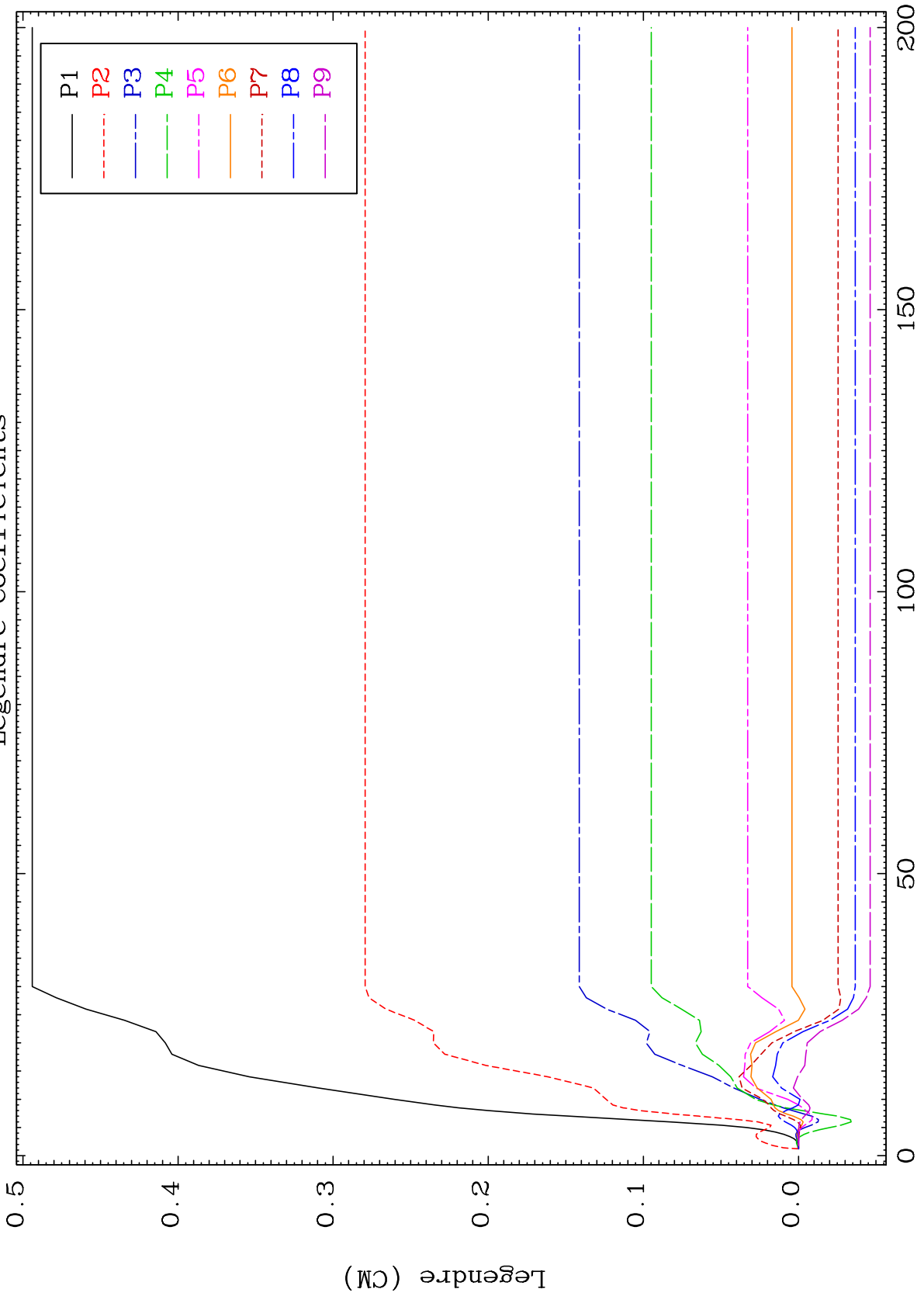
53-I -129



MAT 5331

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

53-I -129



67

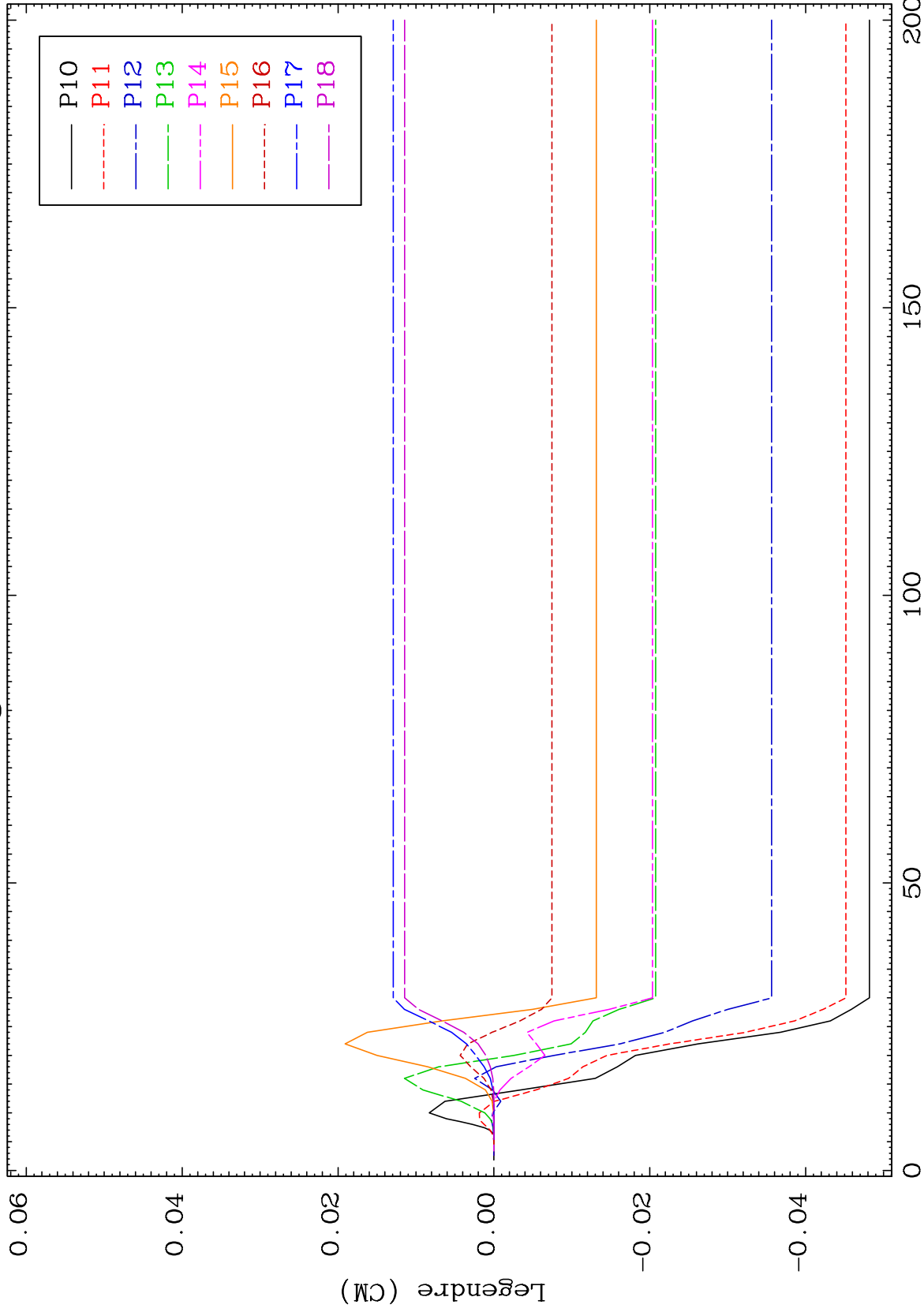
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



68

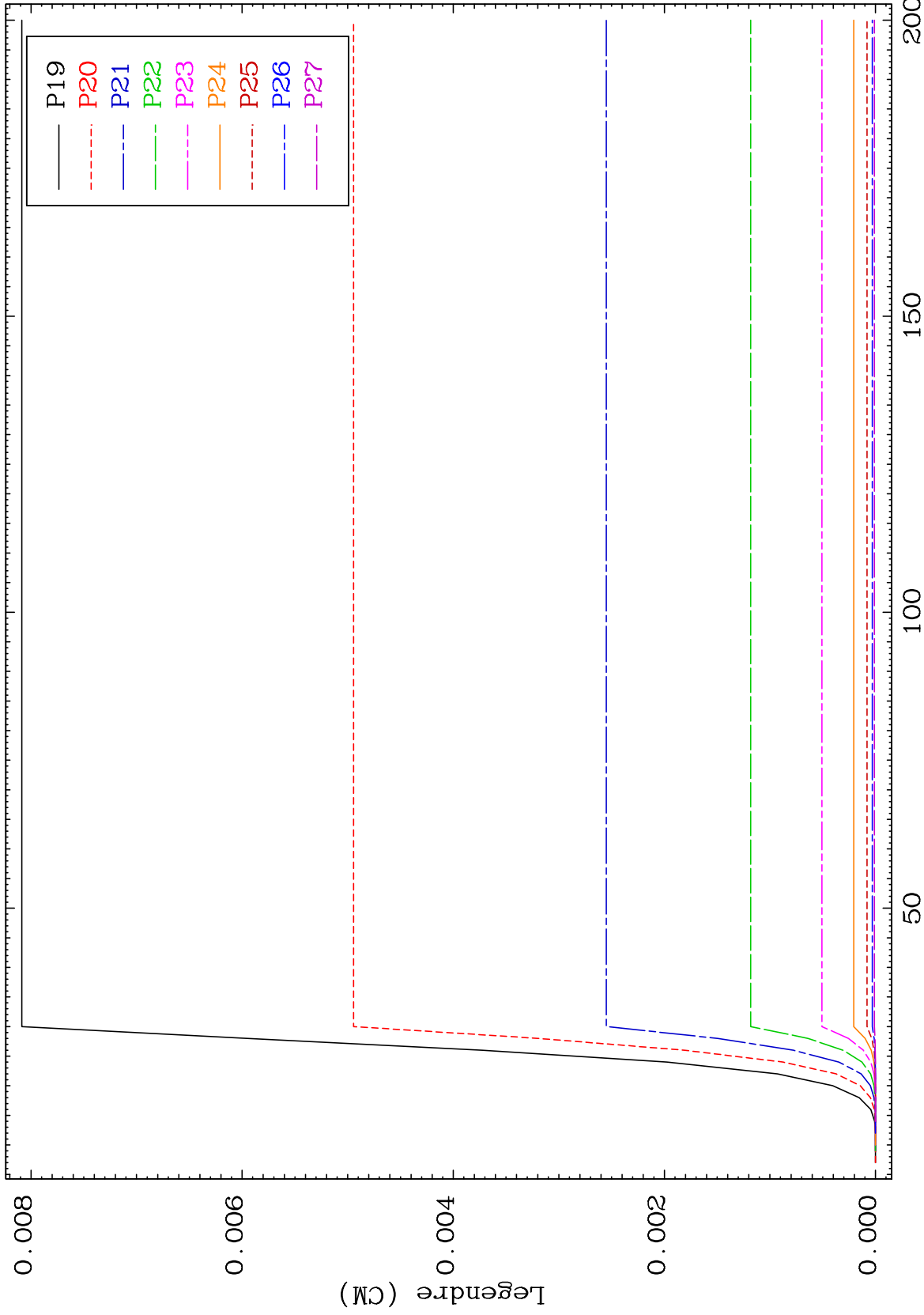
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



69

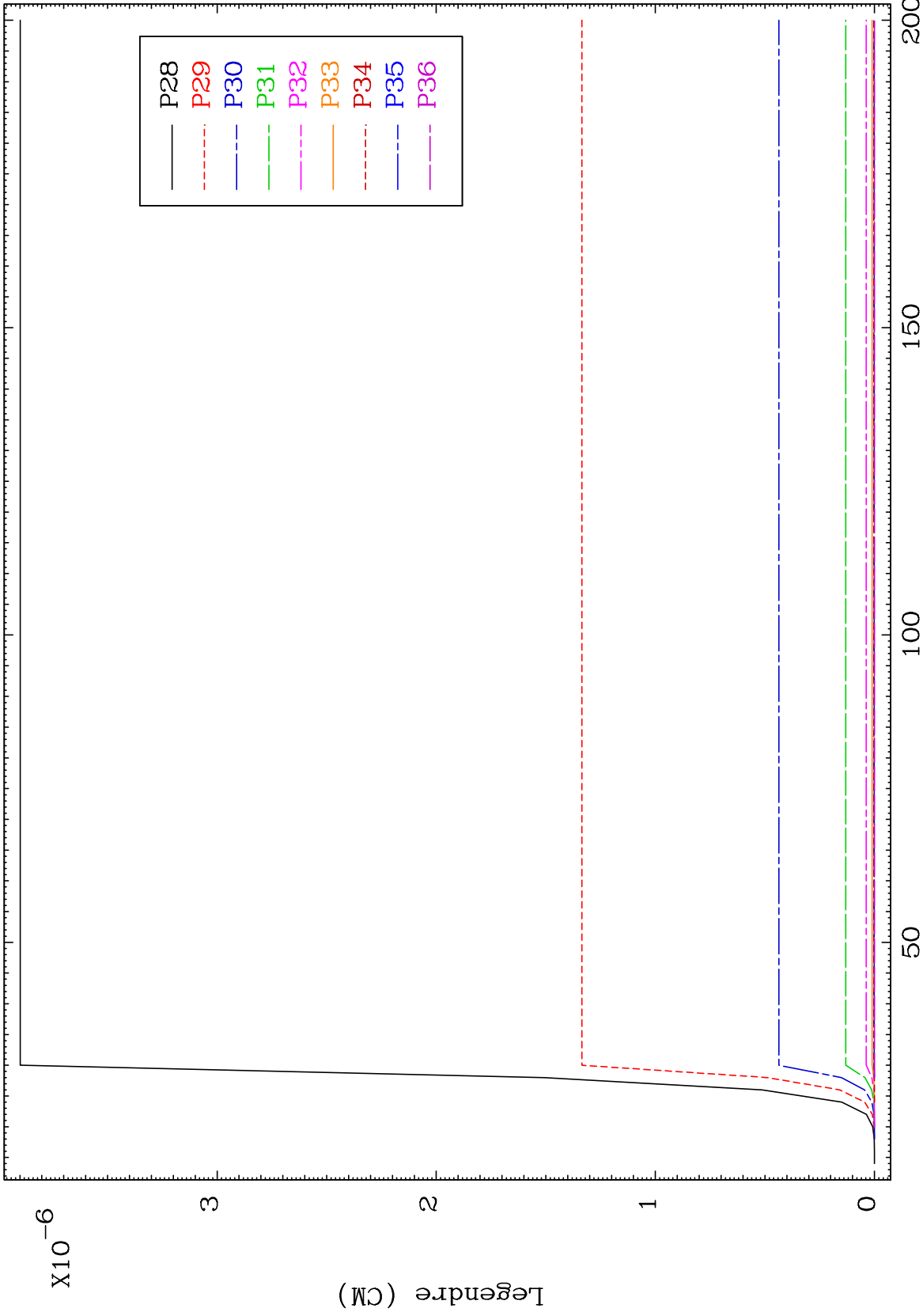
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



70

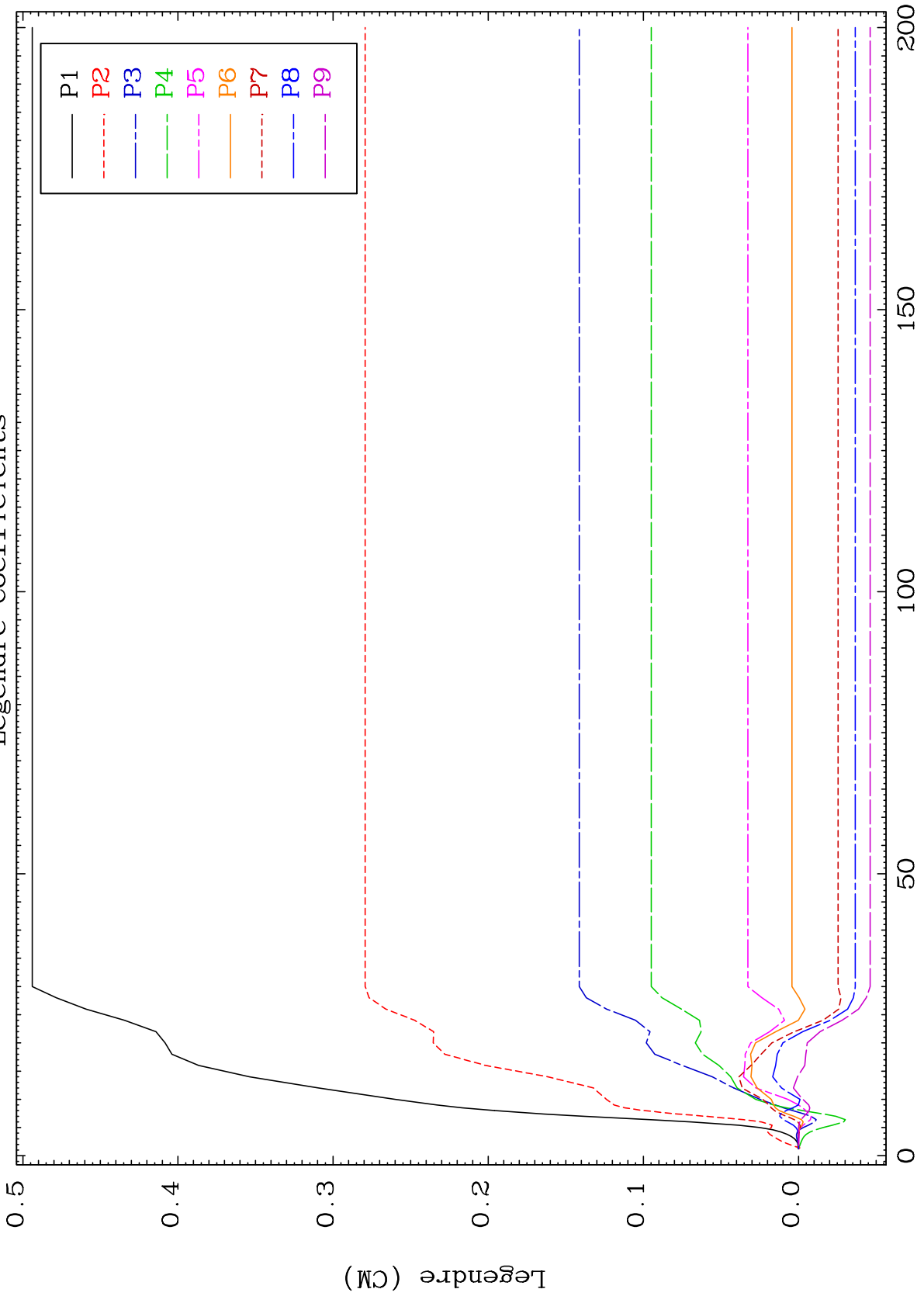
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



71

Incident Energy (MeV)

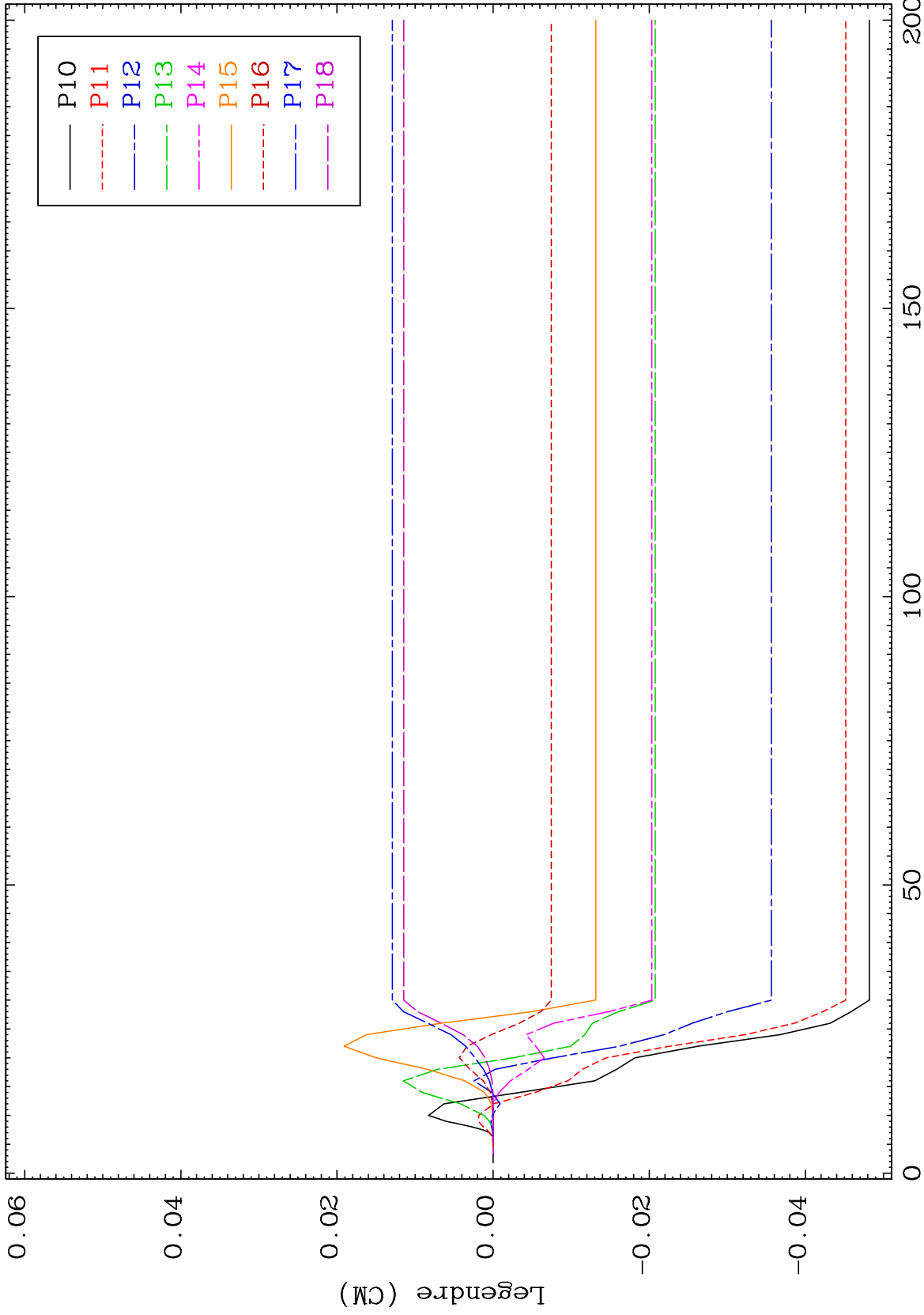
53-I -129



MAT 5331

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

53-I -129



72

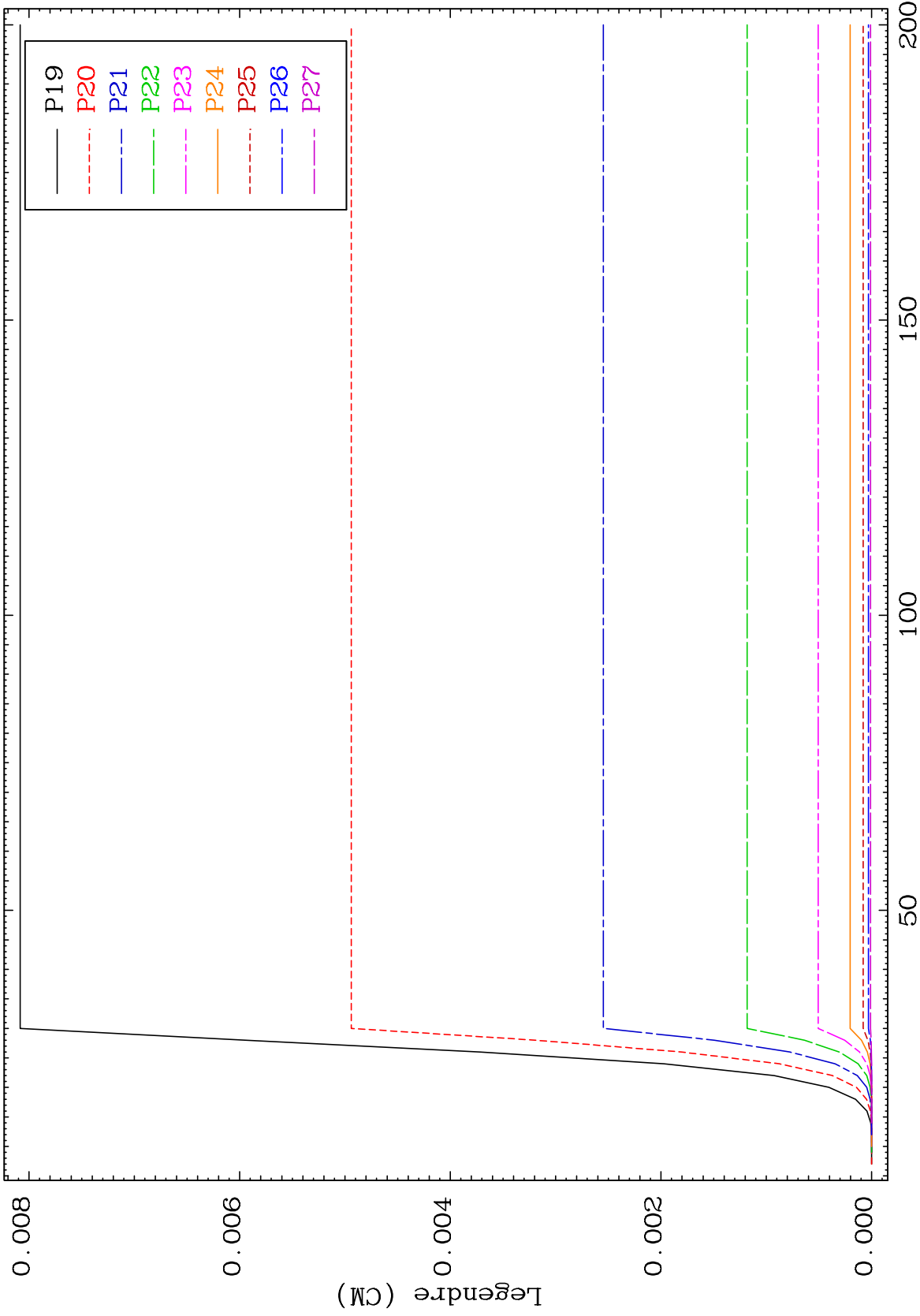
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



73

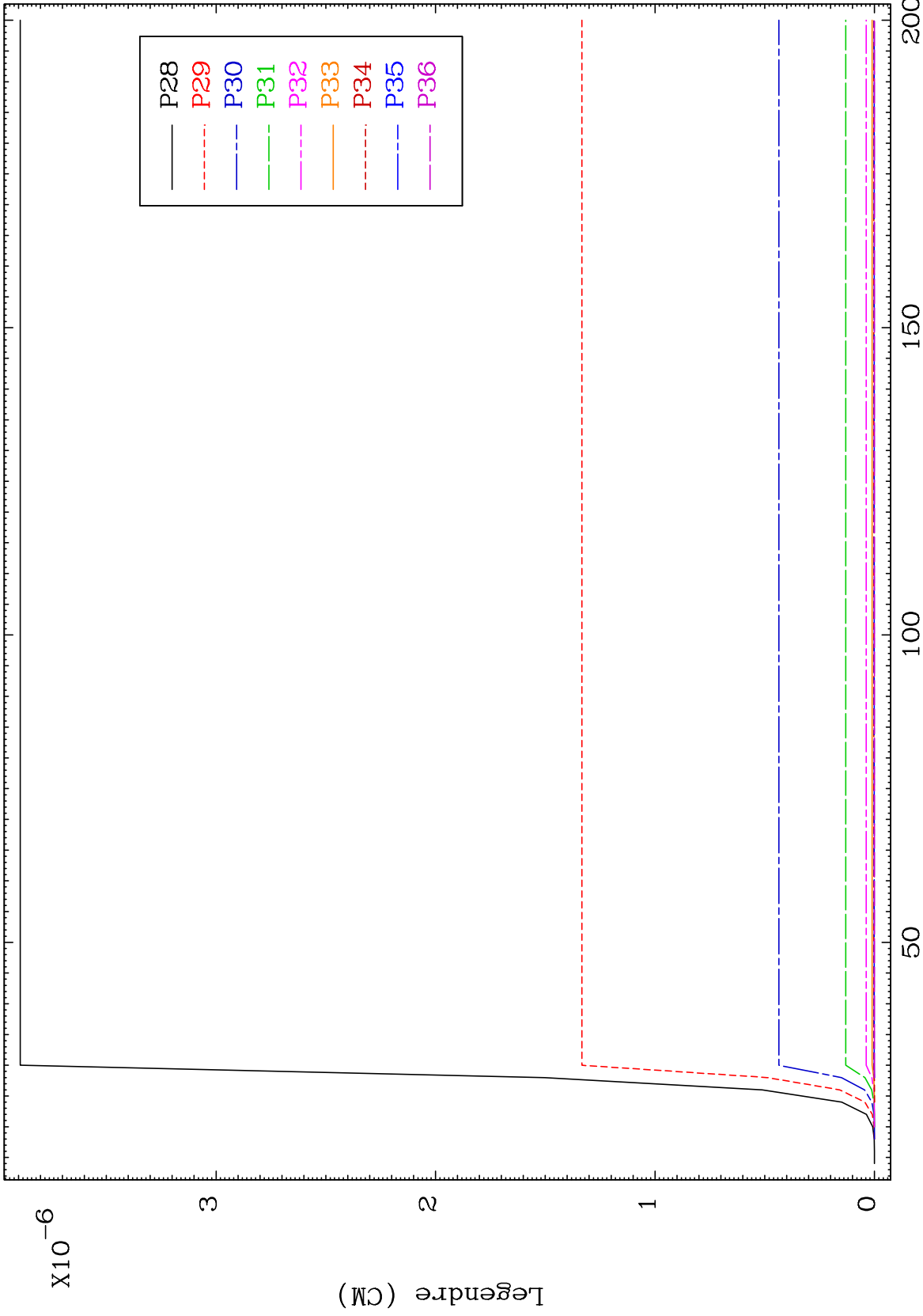
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



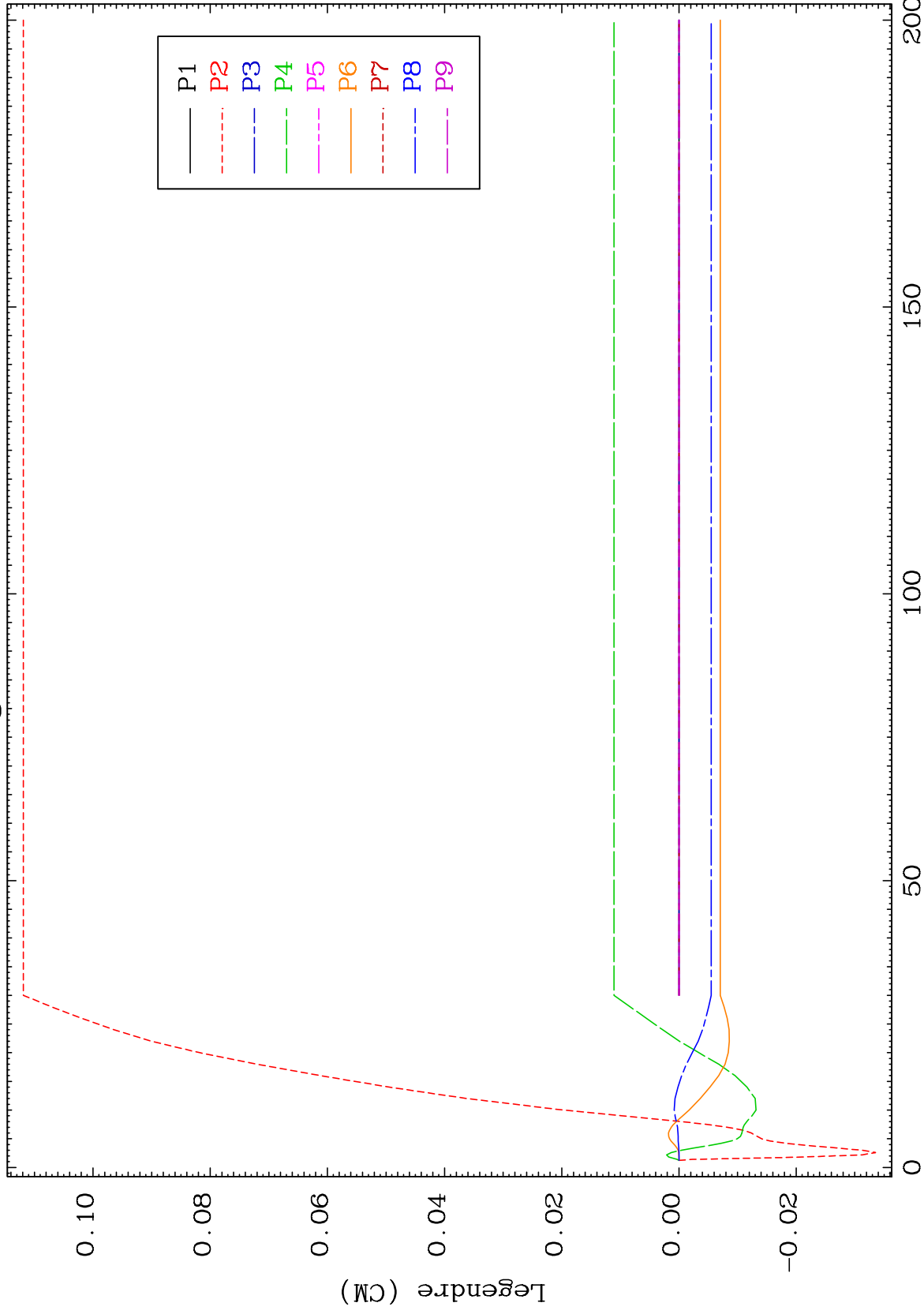
74

53-I -129

MAT 5331

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

53-I -129



75

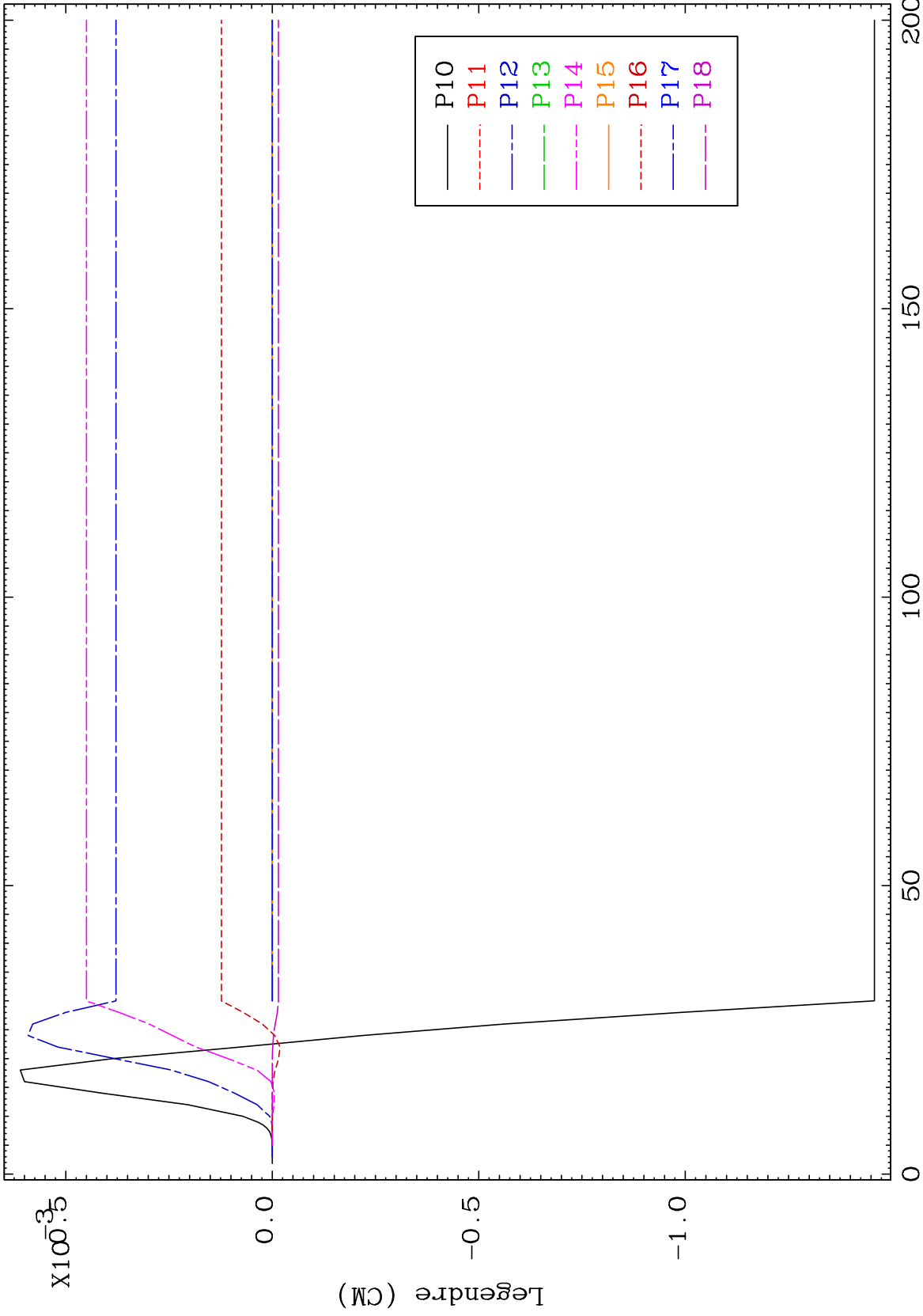
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



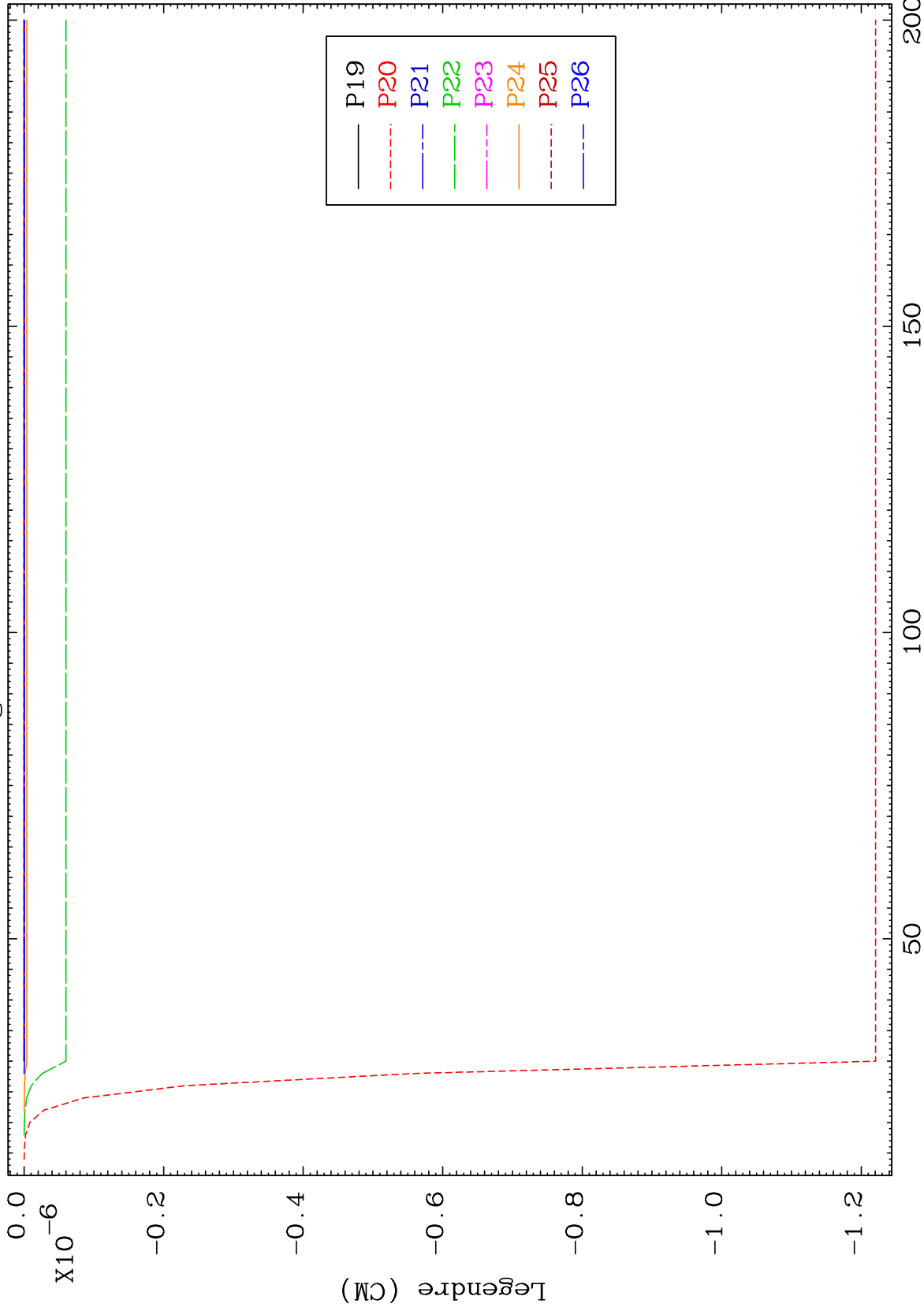
76

53-I -129

MAT 5331

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

53-I -129



77

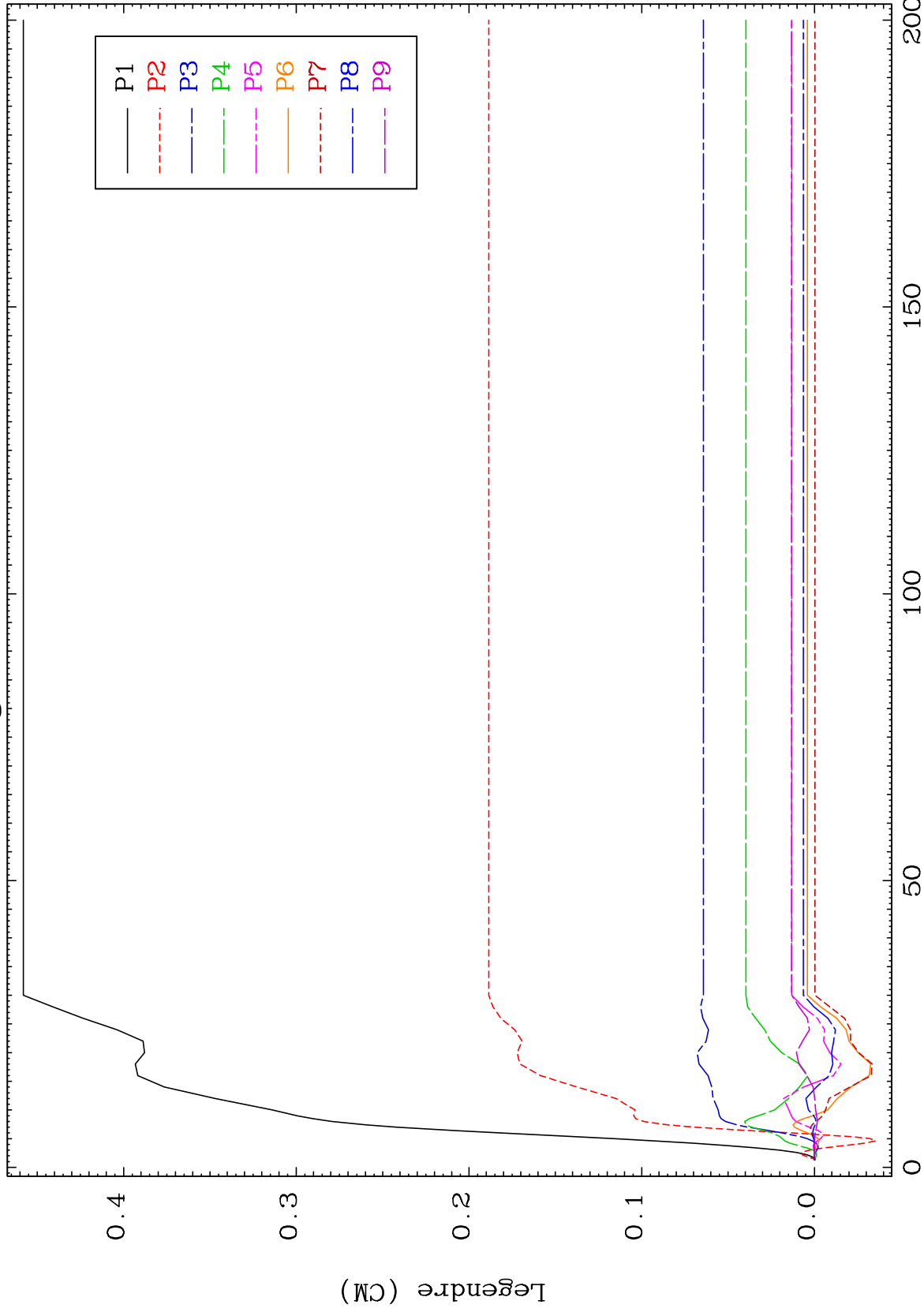
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



78

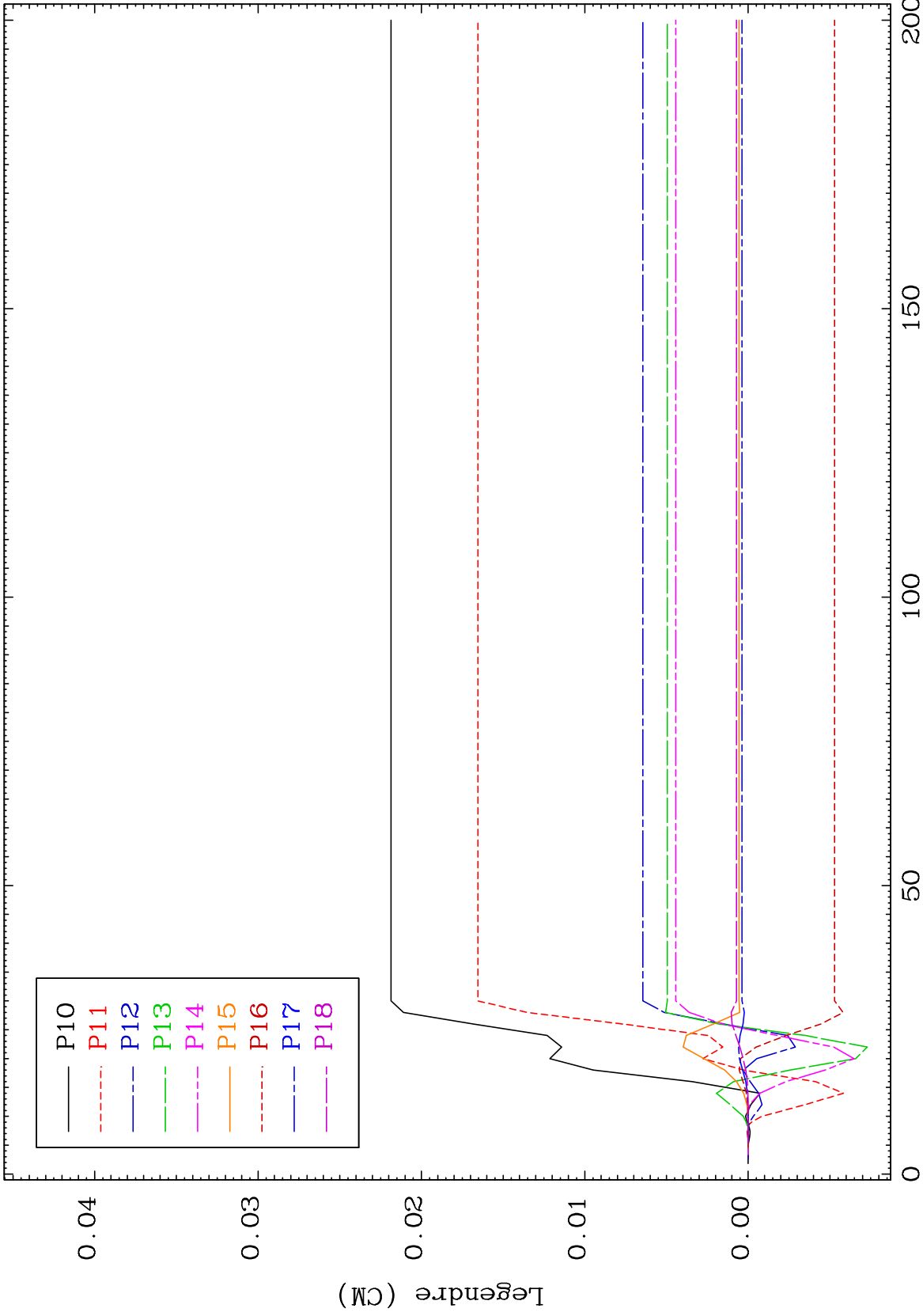
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



79

Incident Energy (MeV)

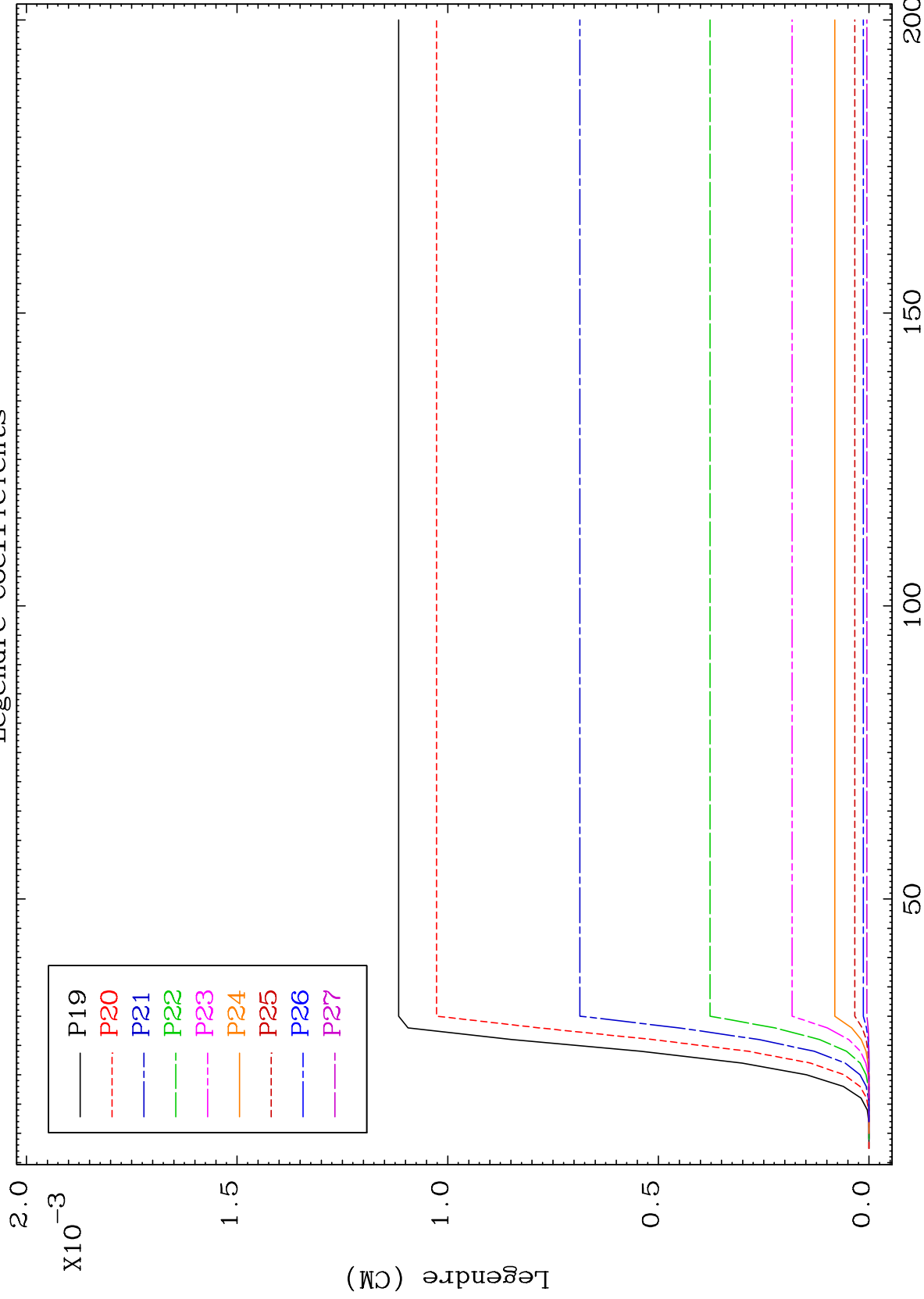
53-I -129



MAT 5331

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

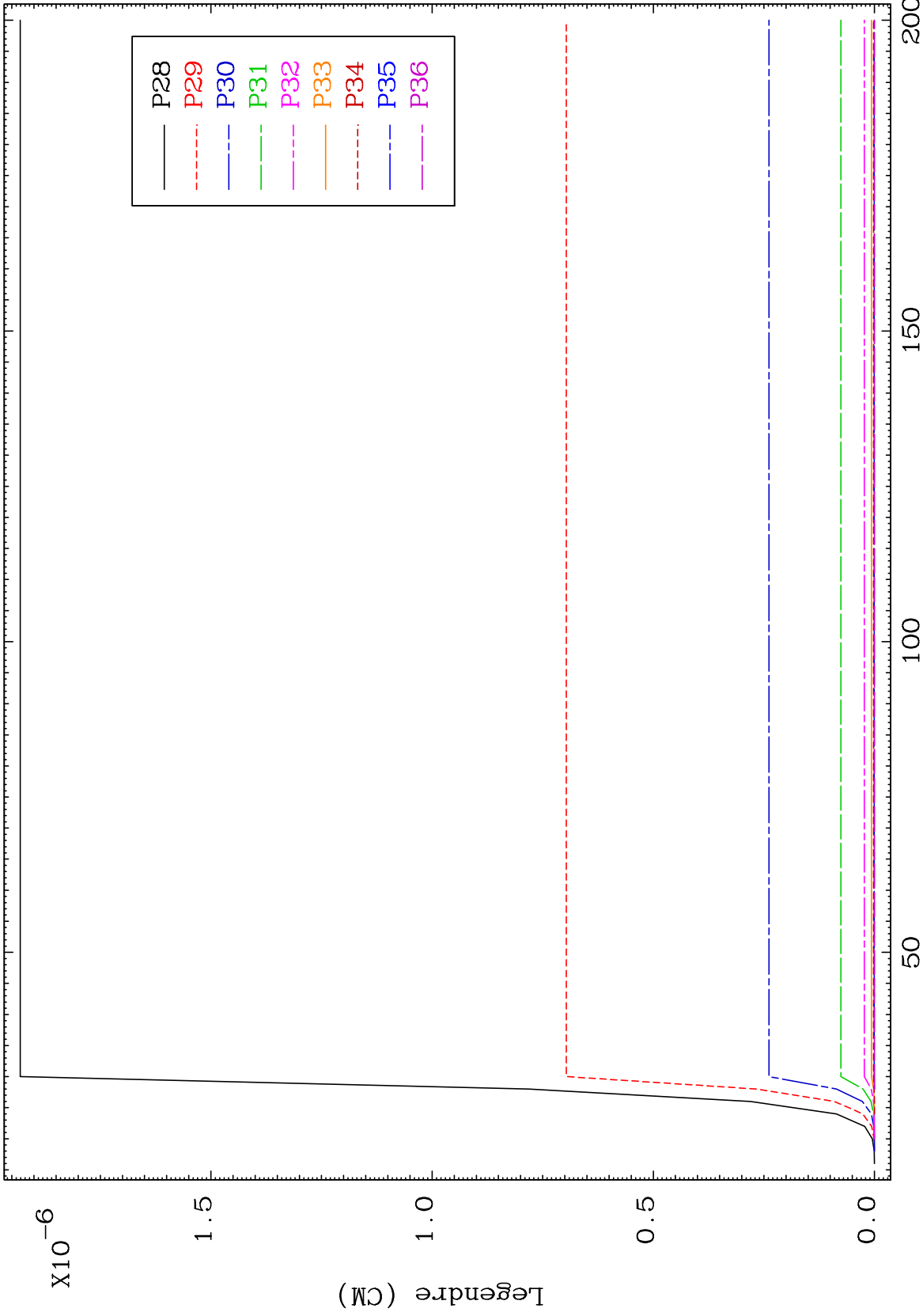
53-I -129



80

Incident Energy (MeV)

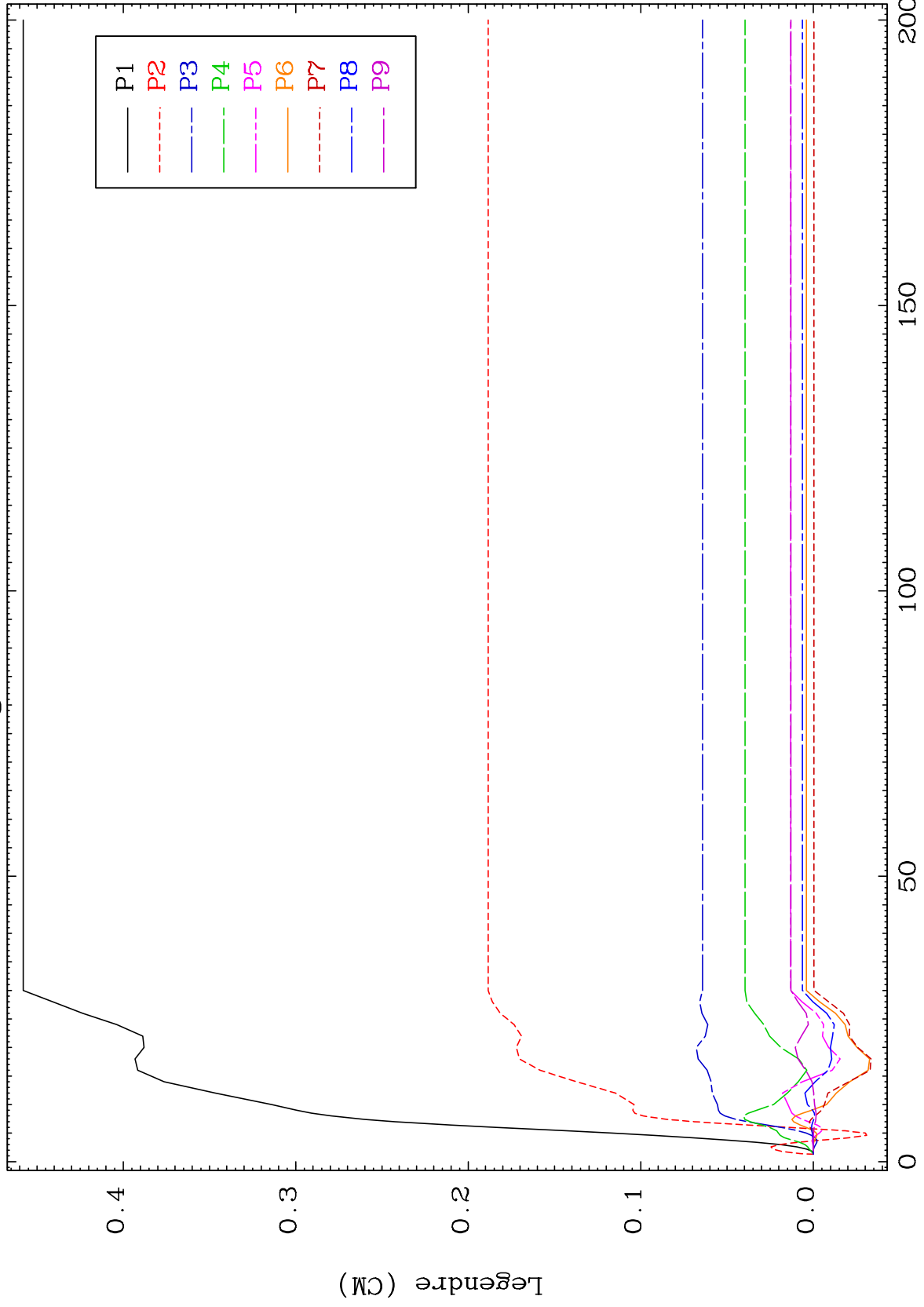
53-I -129



MAT 5331

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

53-I -129



82

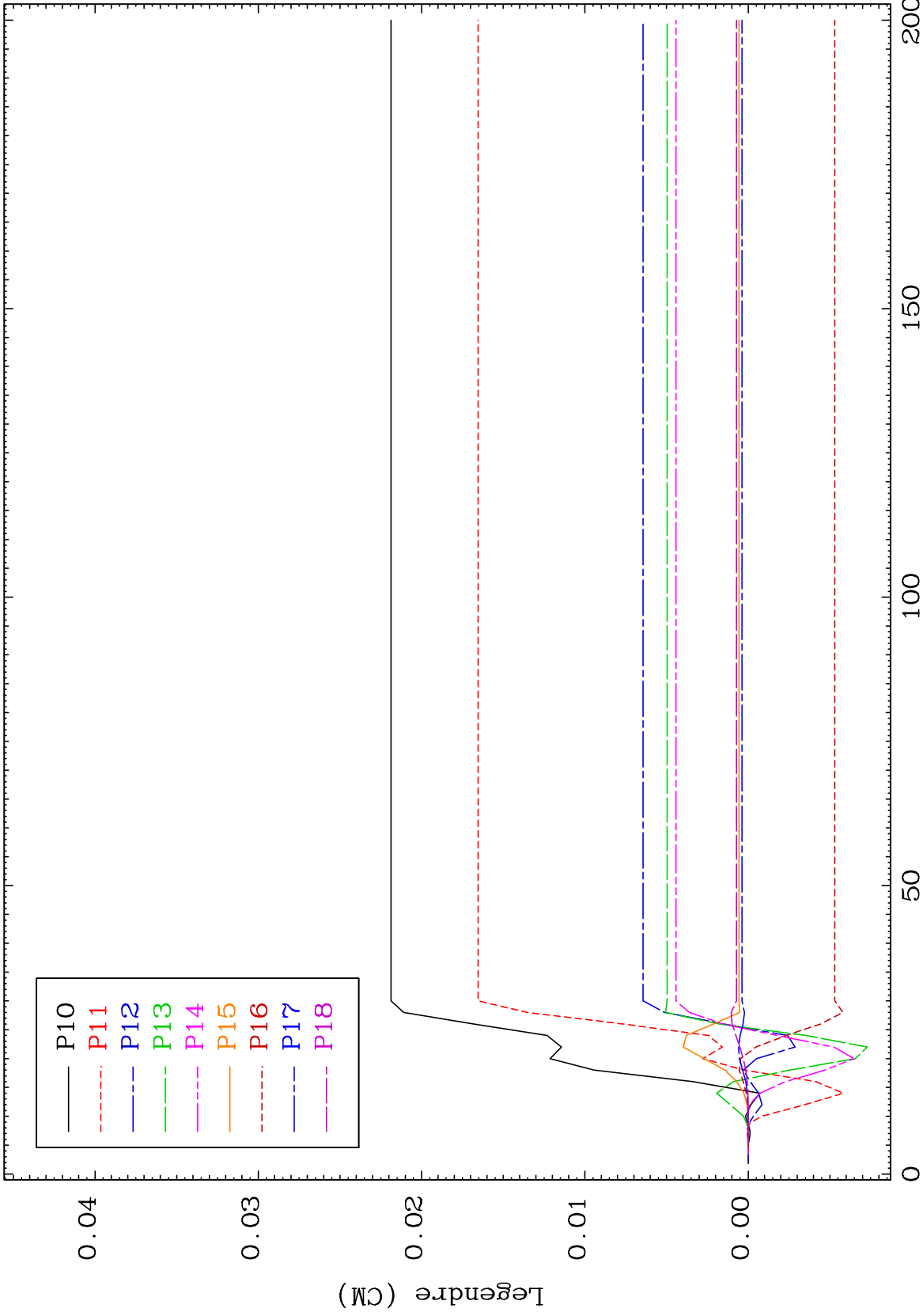
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



83

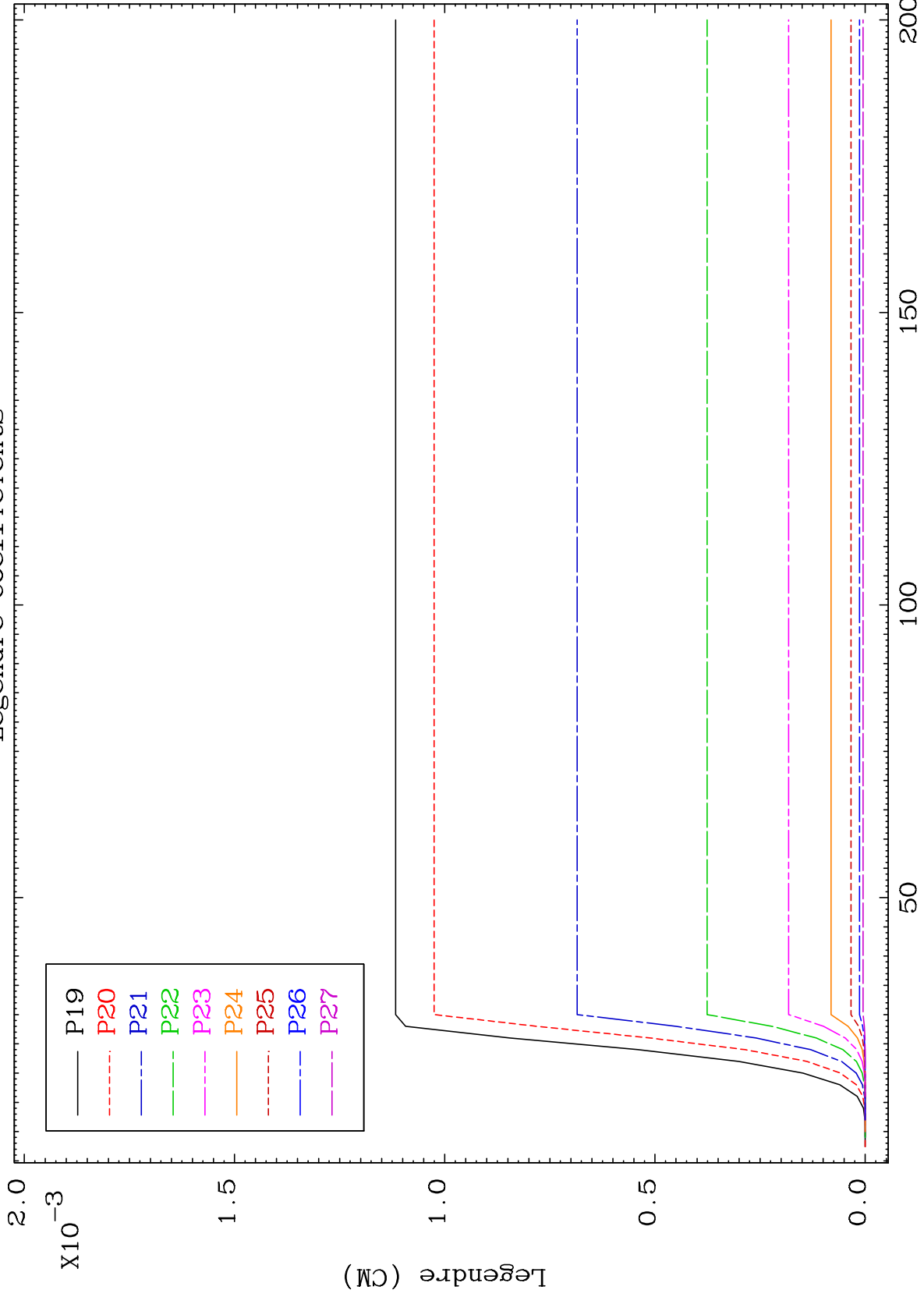
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



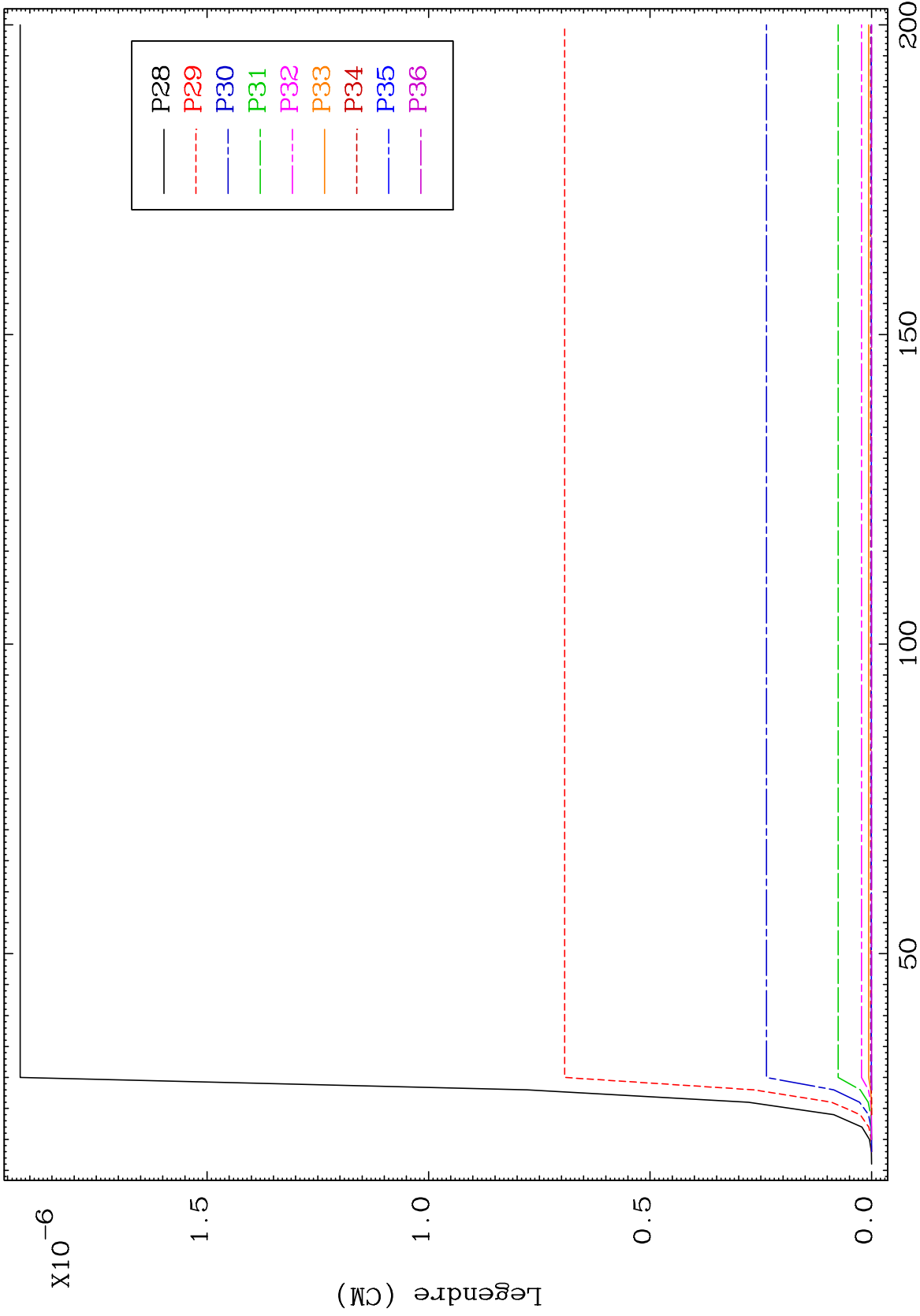
84

53-I -129

MAT 5331

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

53-I -129



85

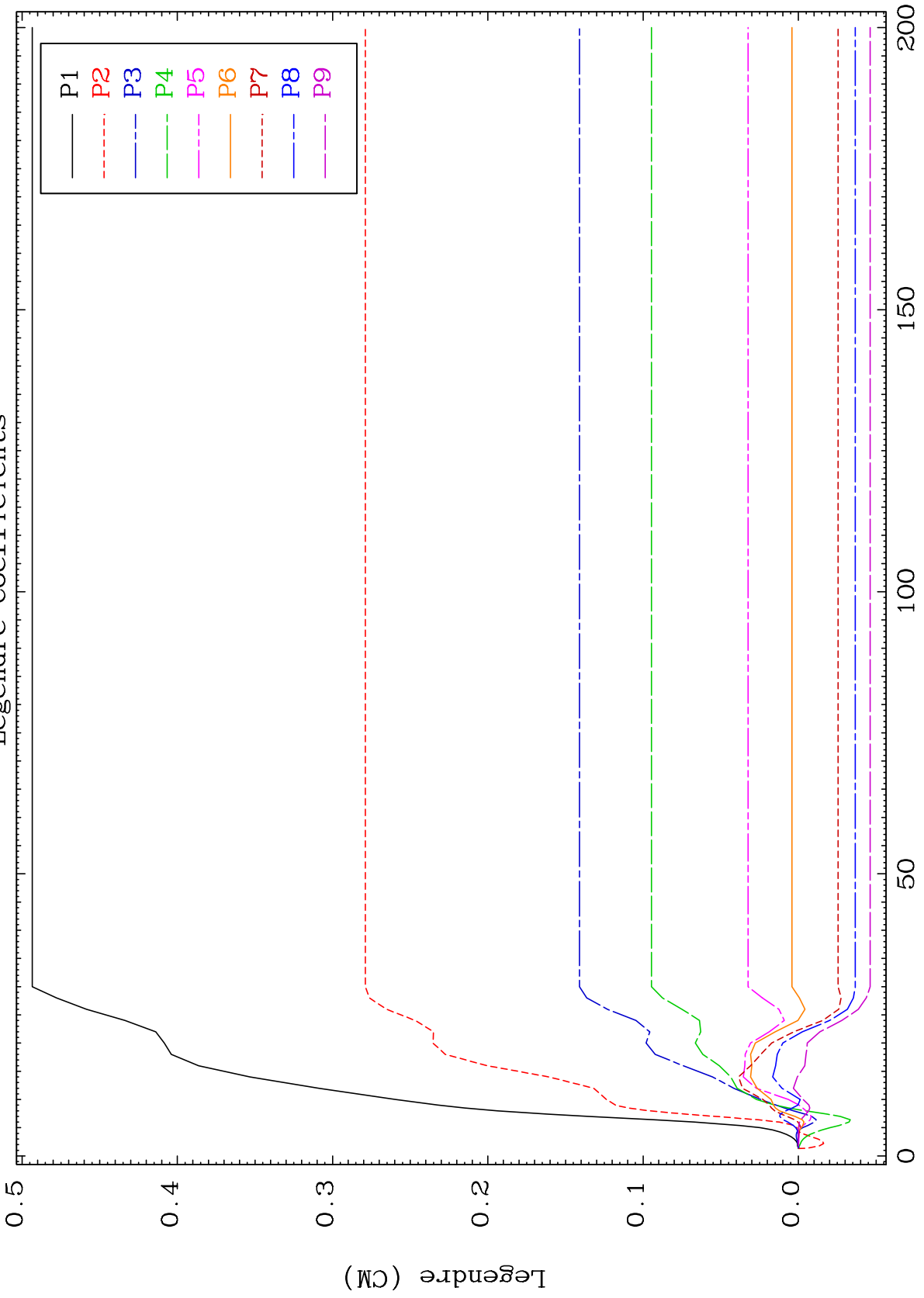
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



86

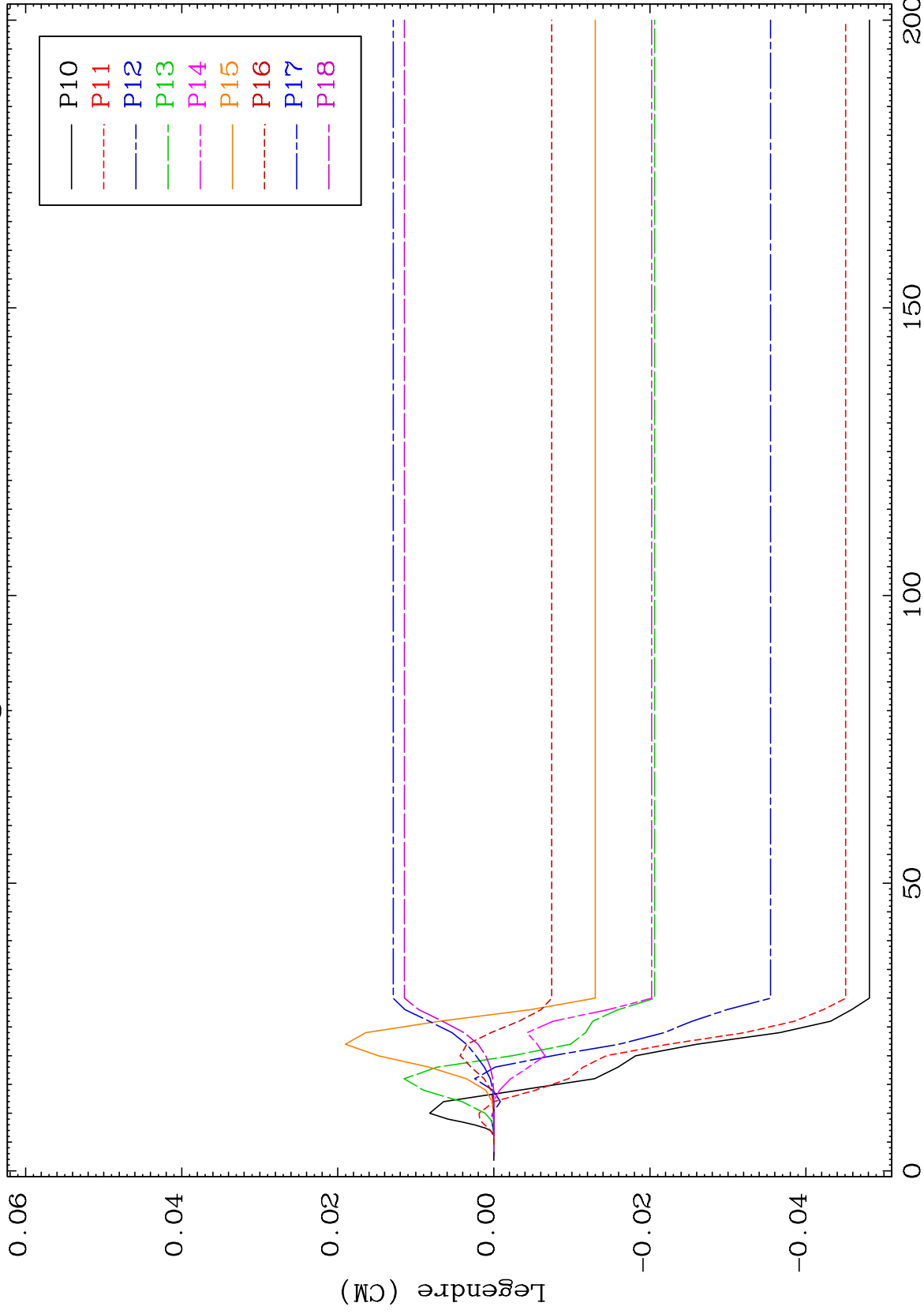
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



87

Incident Energy (MeV)

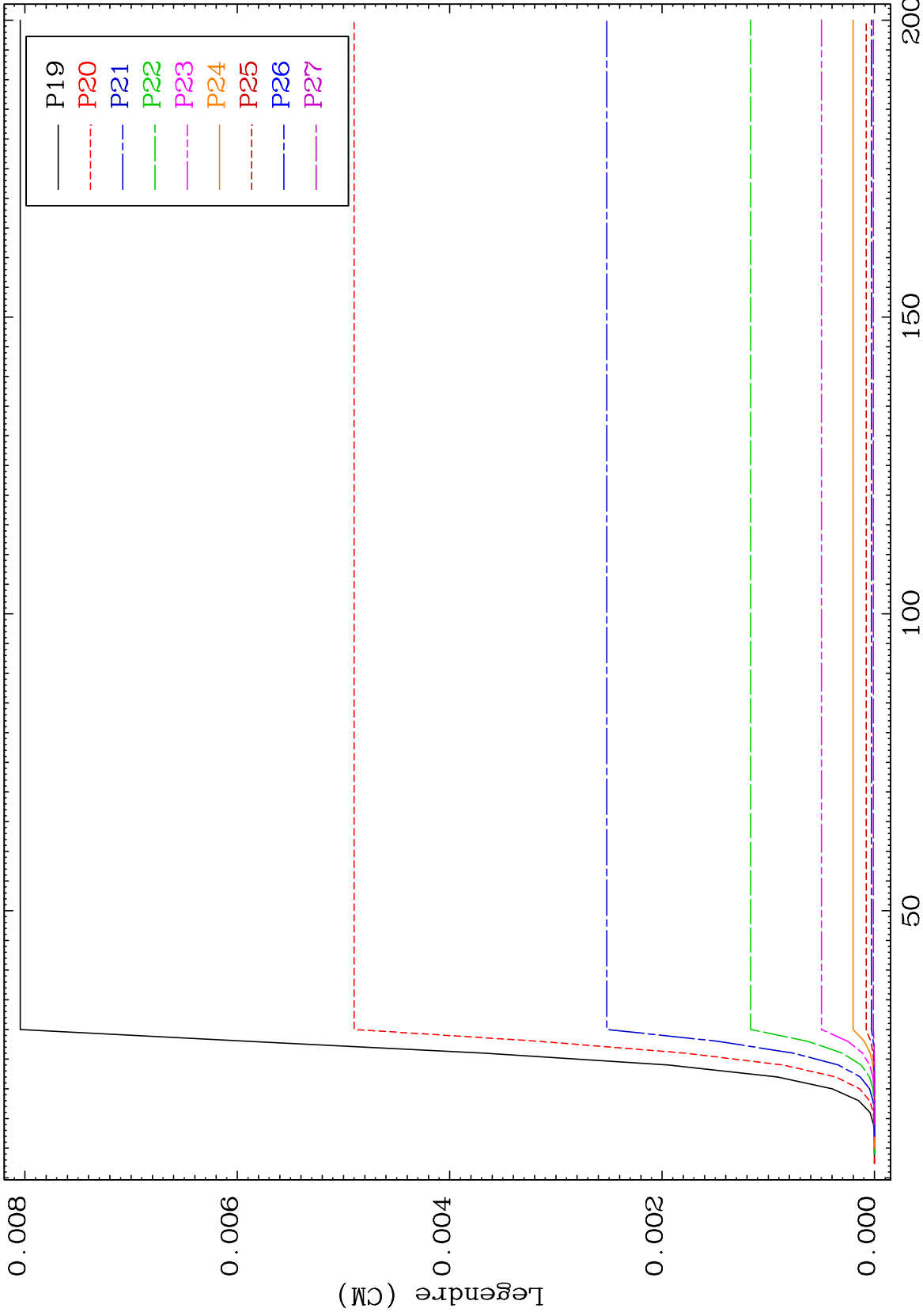
53-I -129



MAT 5331

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

53-I -129



88

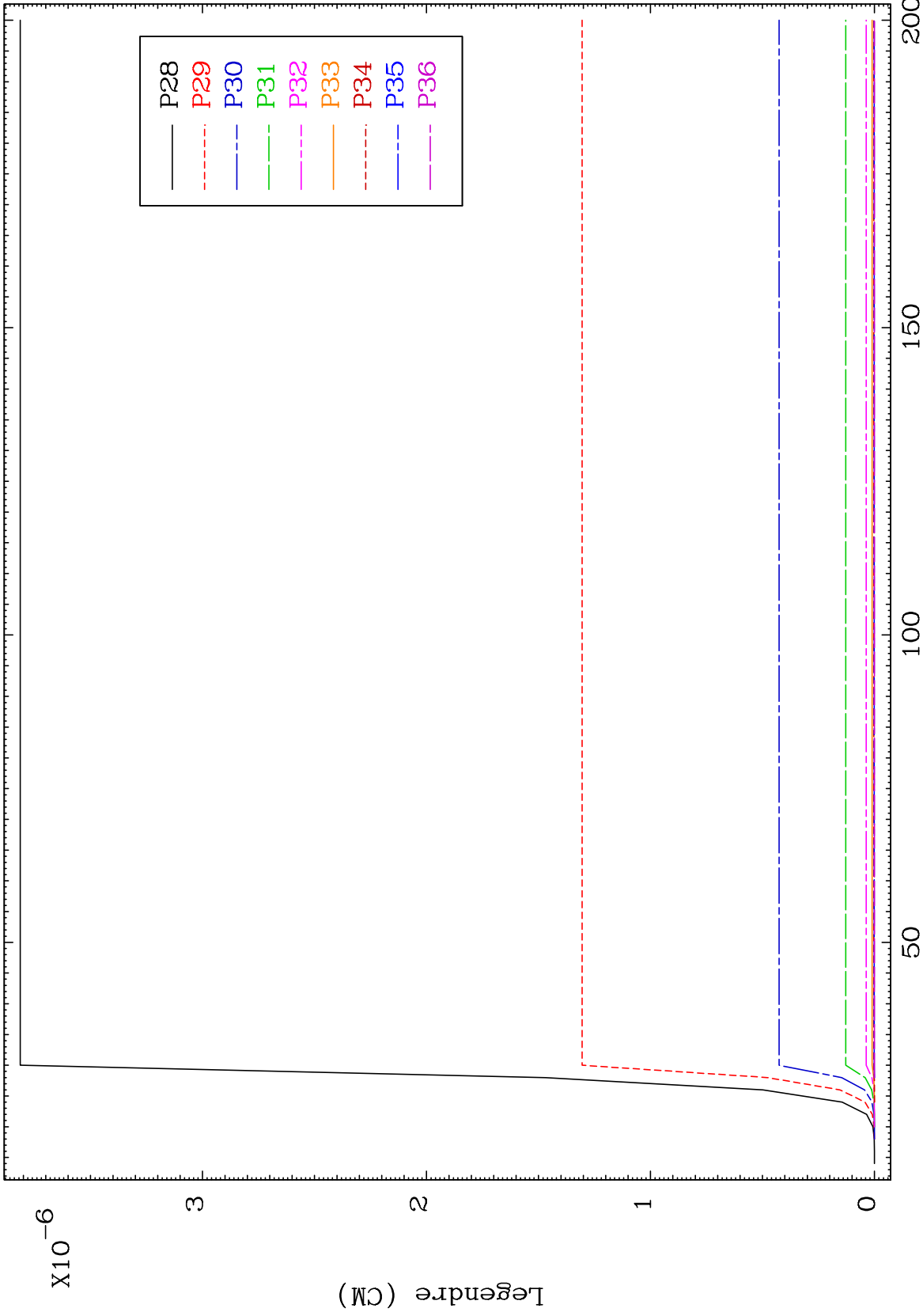
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



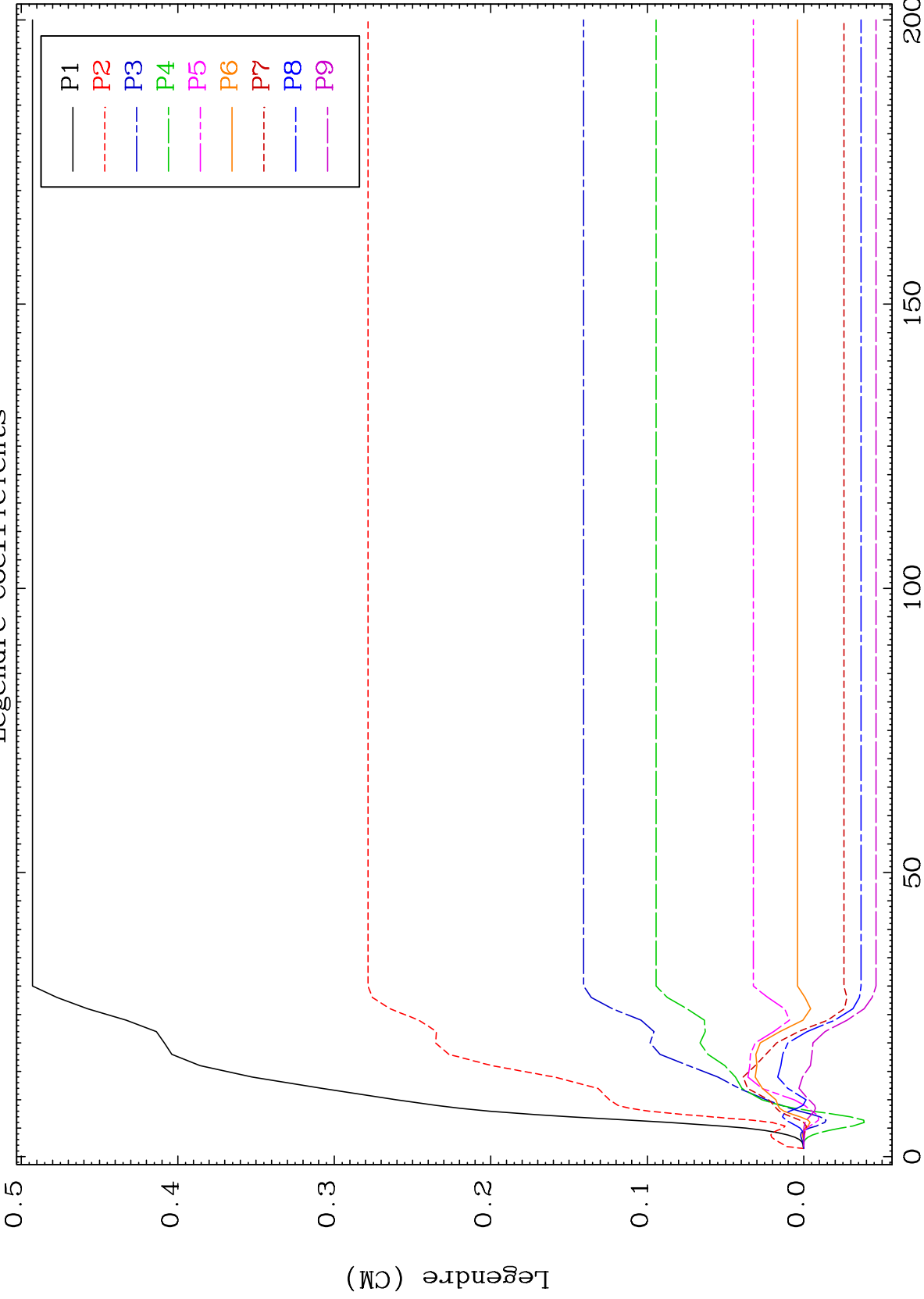
89

53-I -129

MAT 5331

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

53-I -129



90

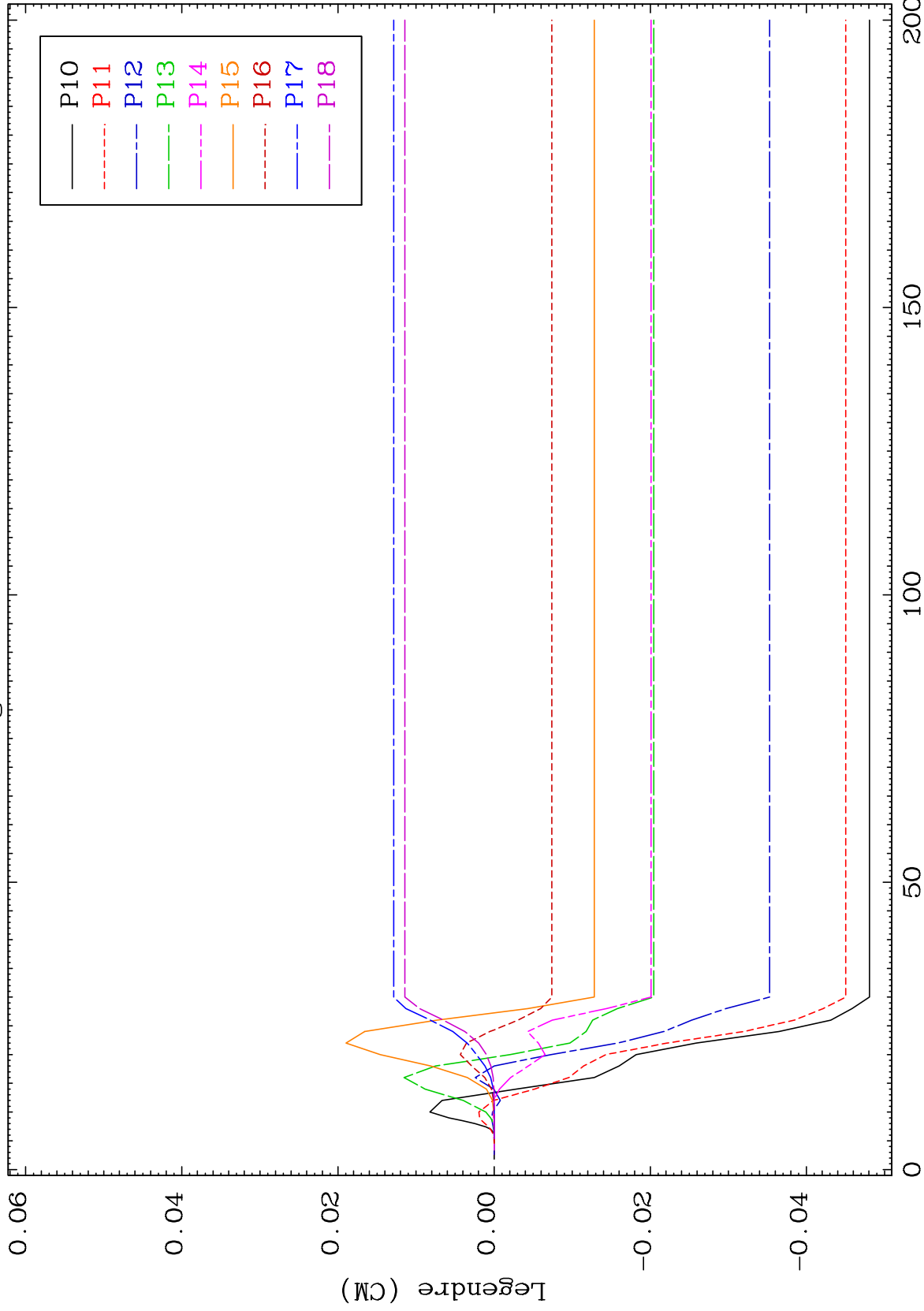
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



91

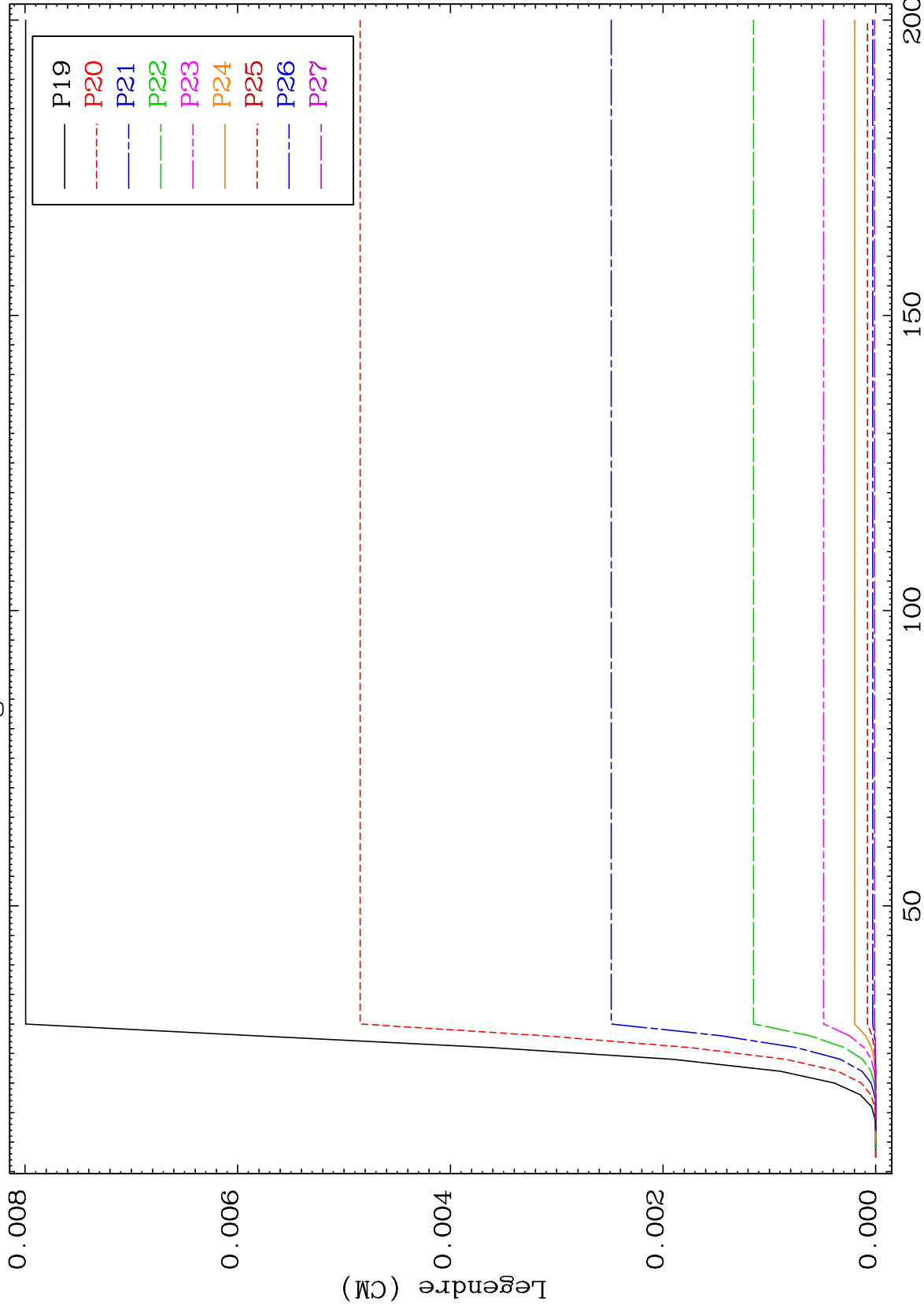
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



92

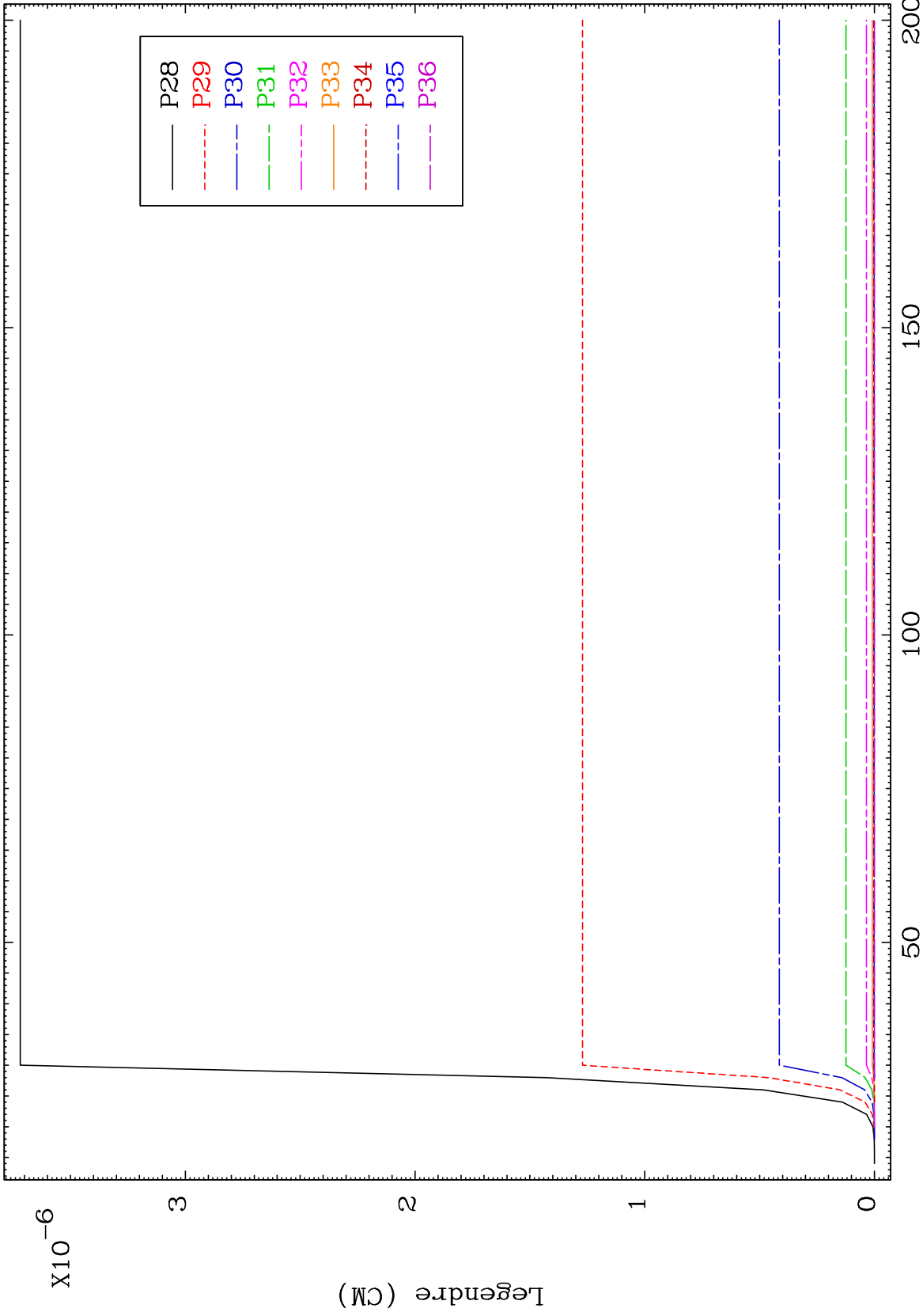
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



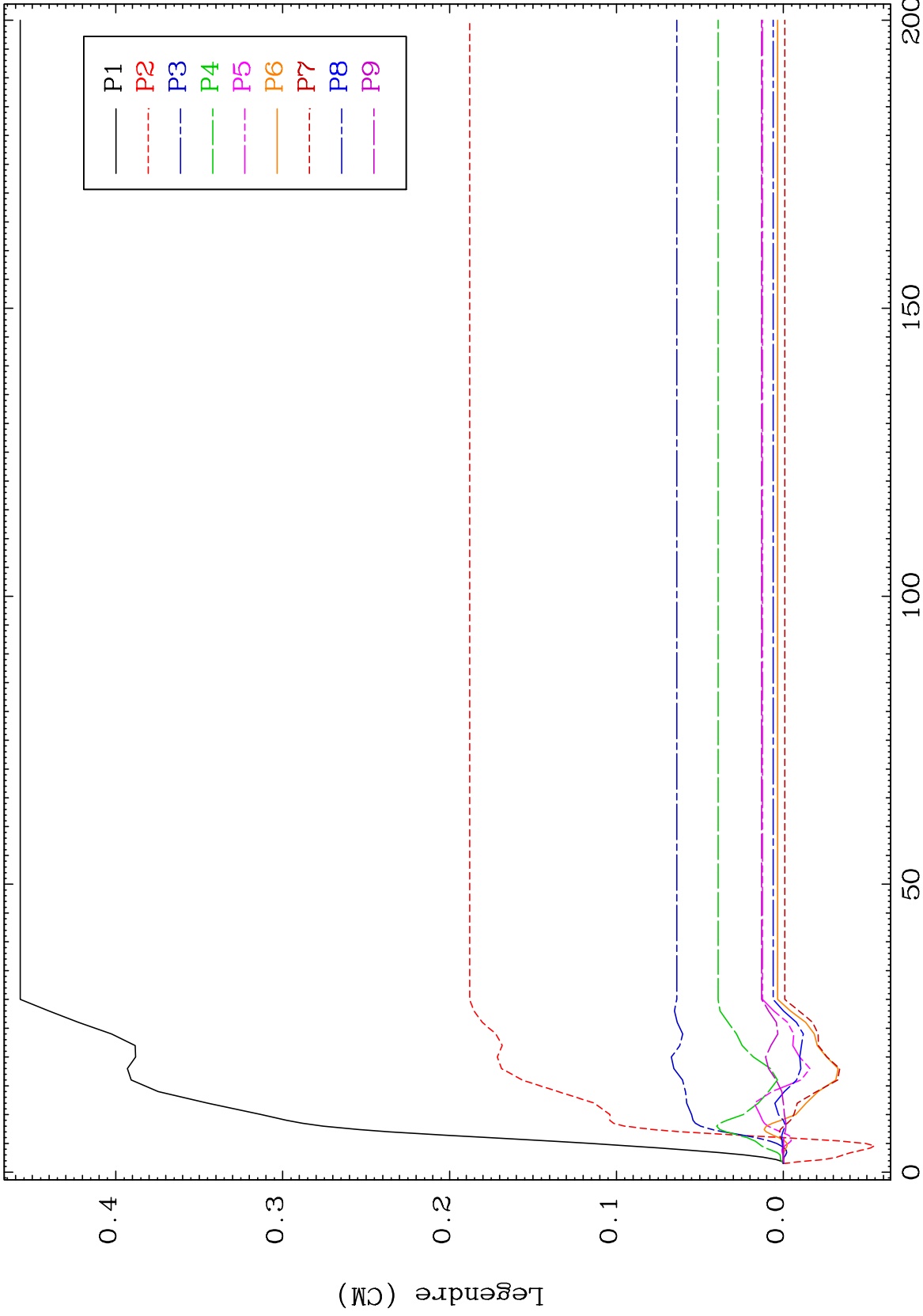
93

53-I -129

MAT 5331

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

53-I -129



94

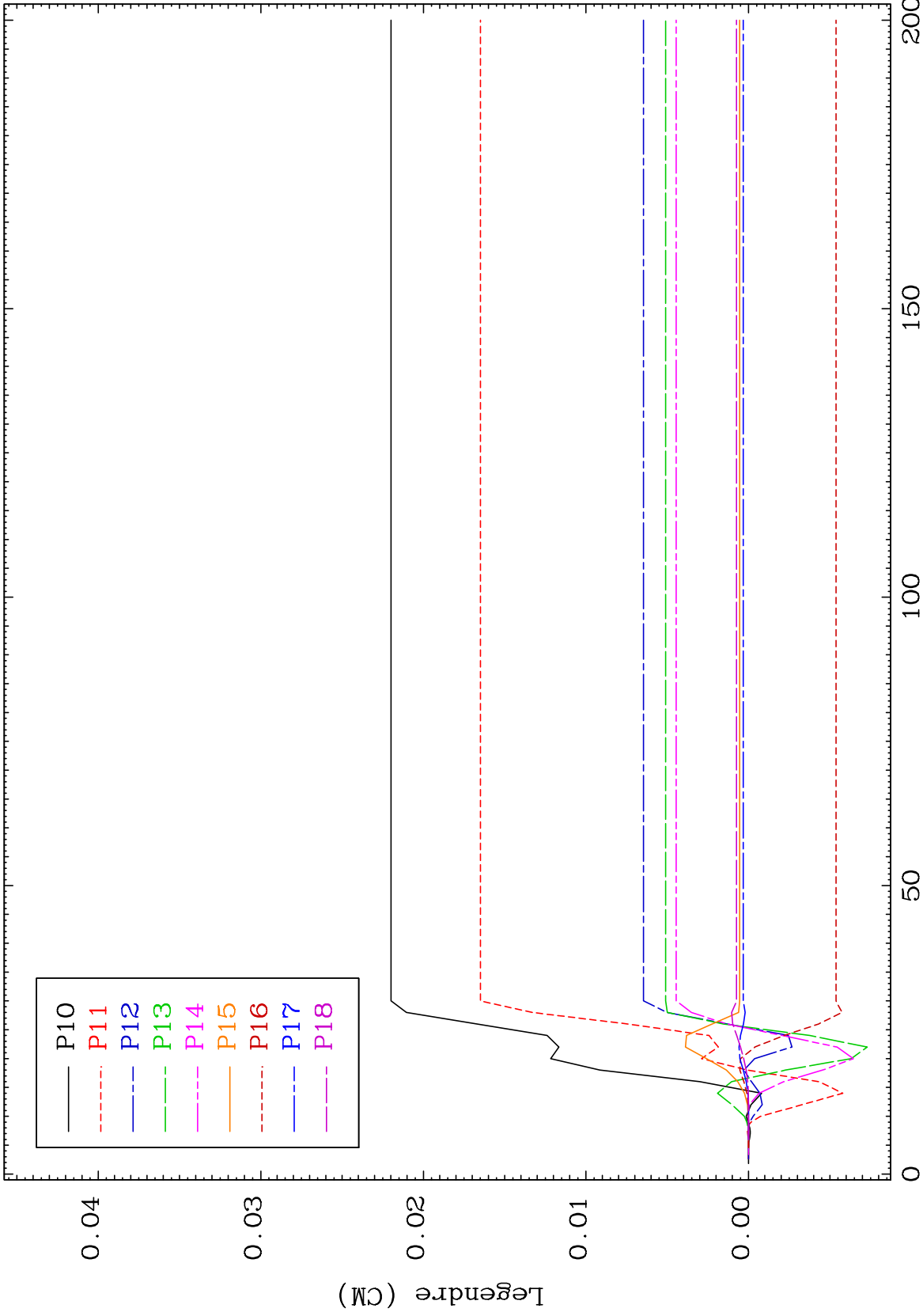
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



95

Incident Energy (MeV)

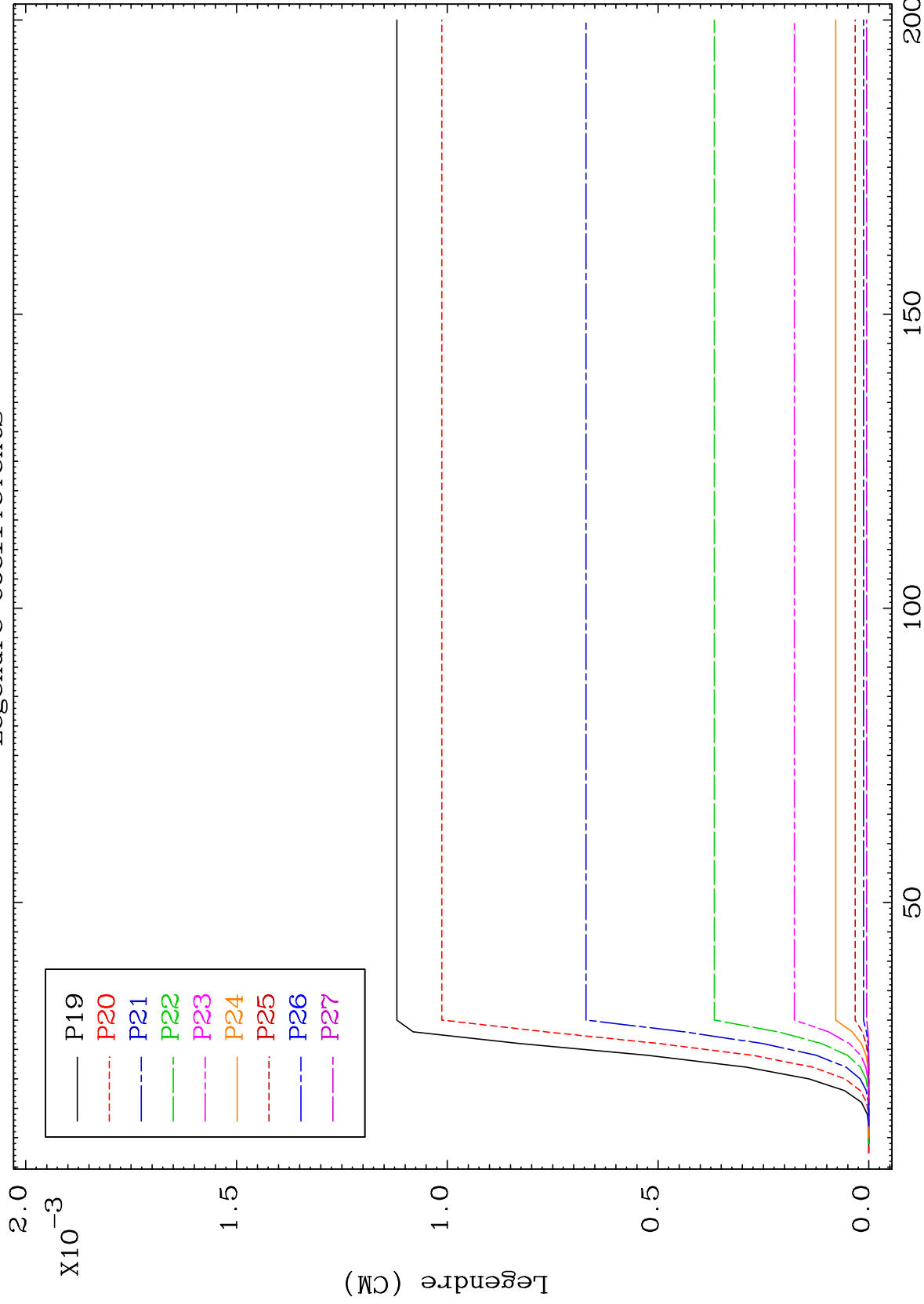
53-I -129



MAT 5331

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

53-I -129



96

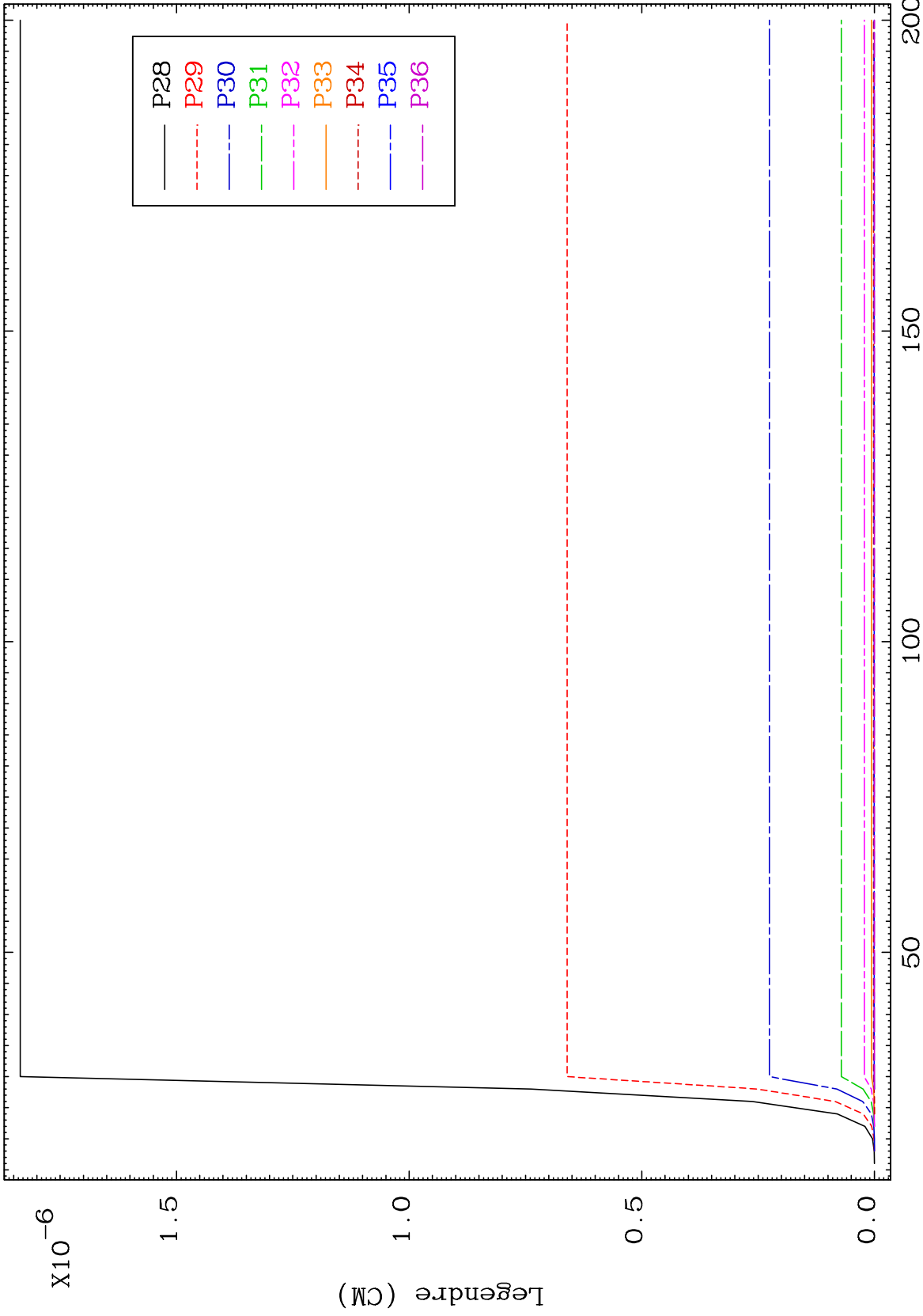
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



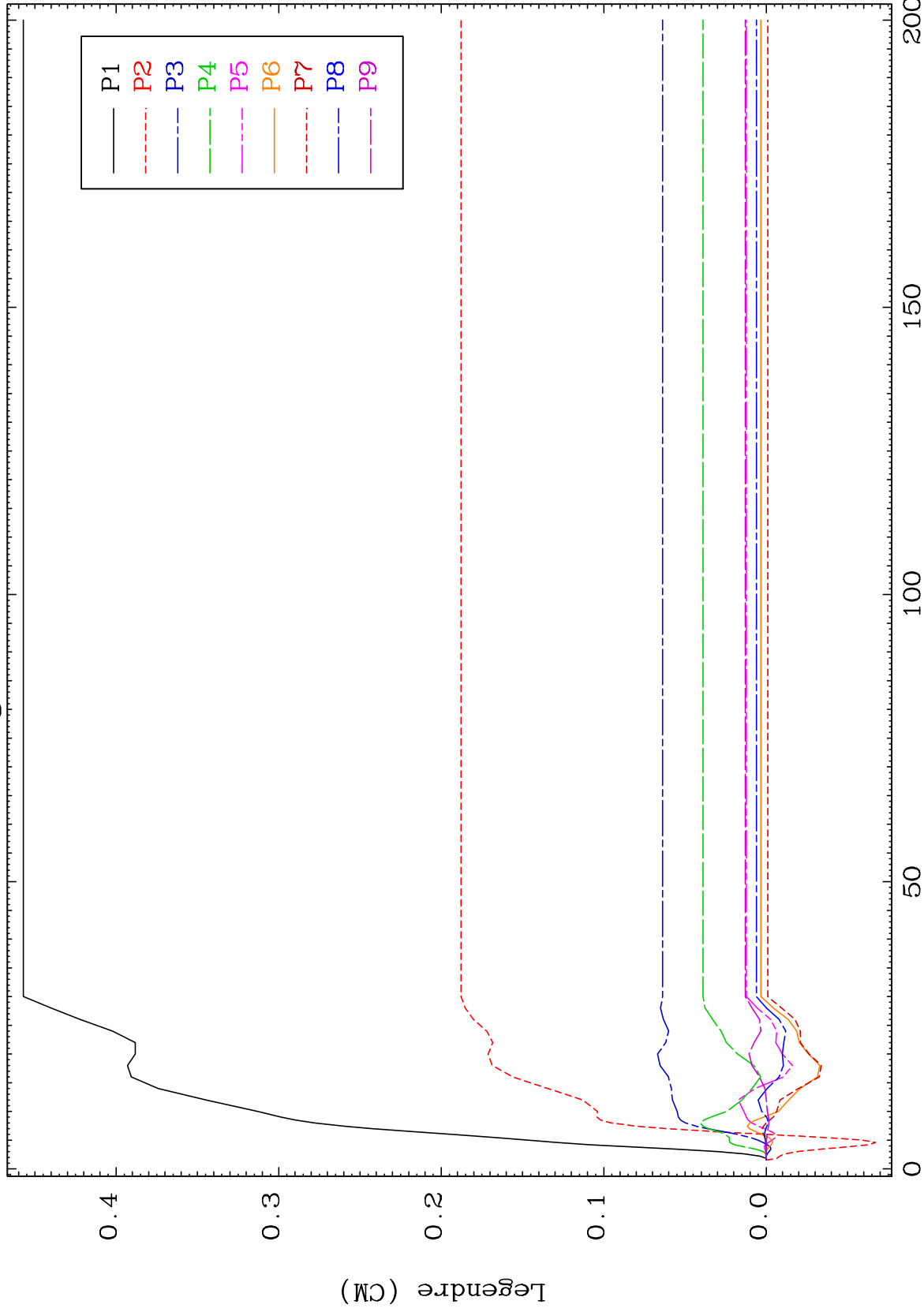
97

53-I -129

MAT 5331

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

53-I -129



98

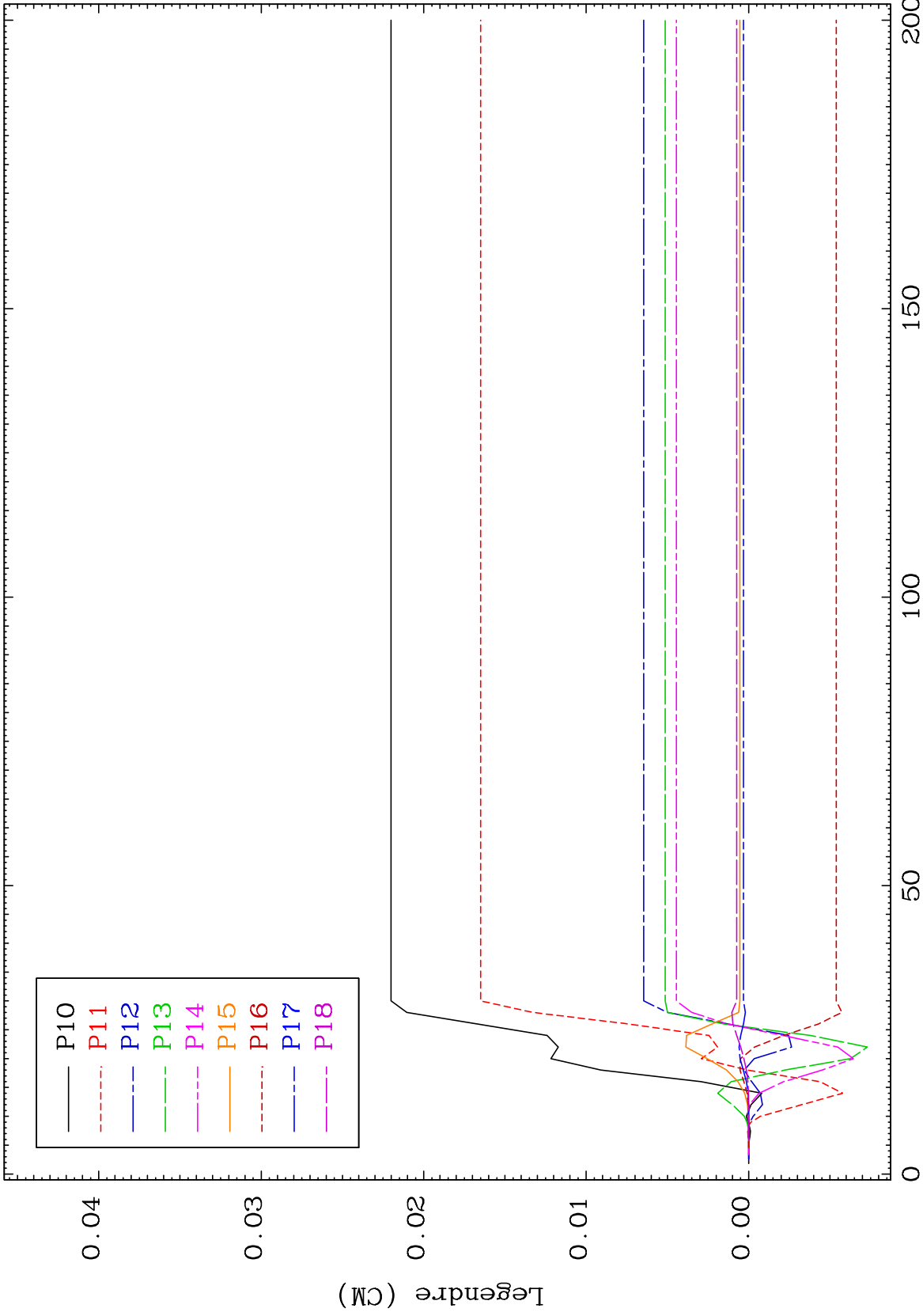
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



99

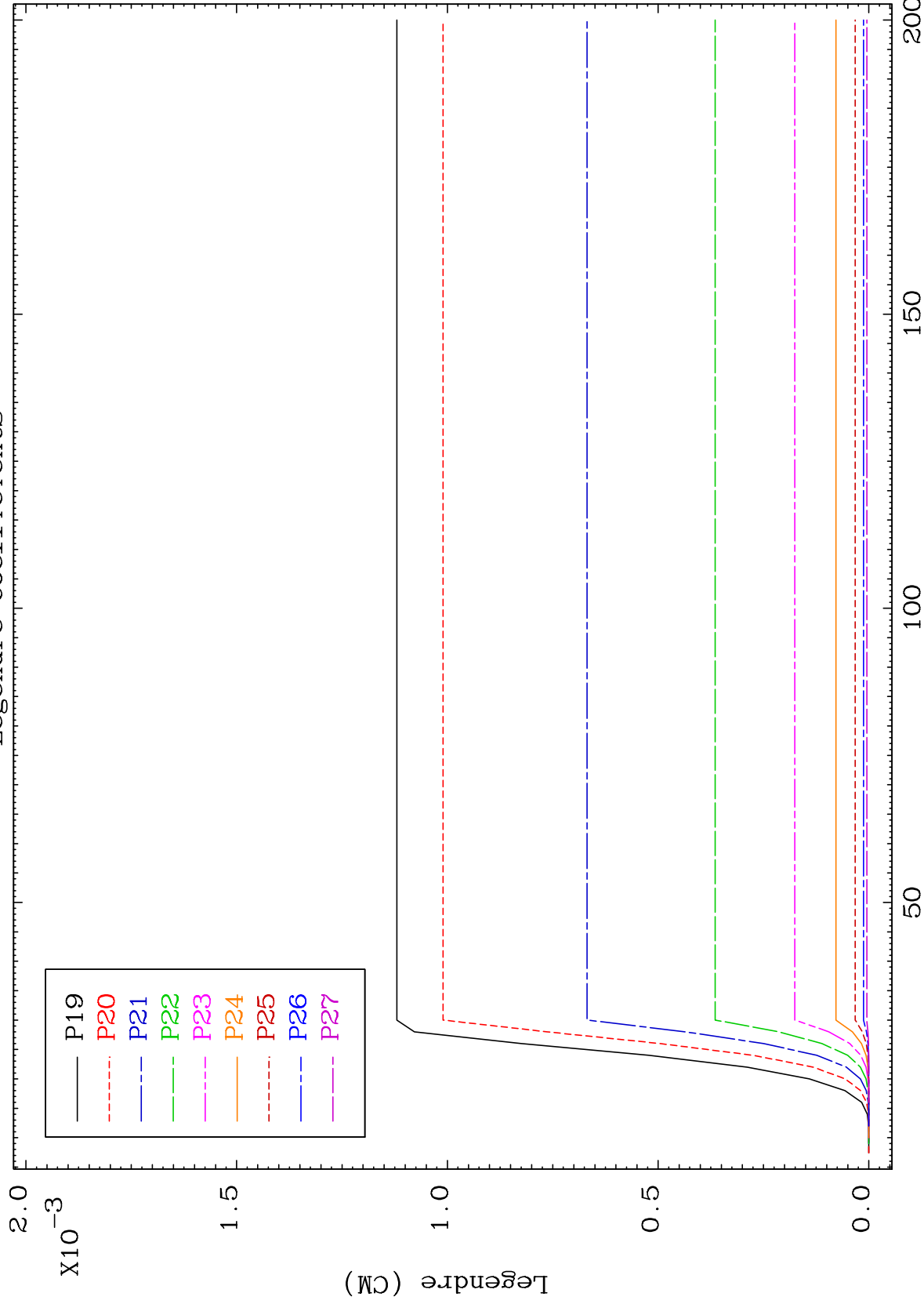
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



100

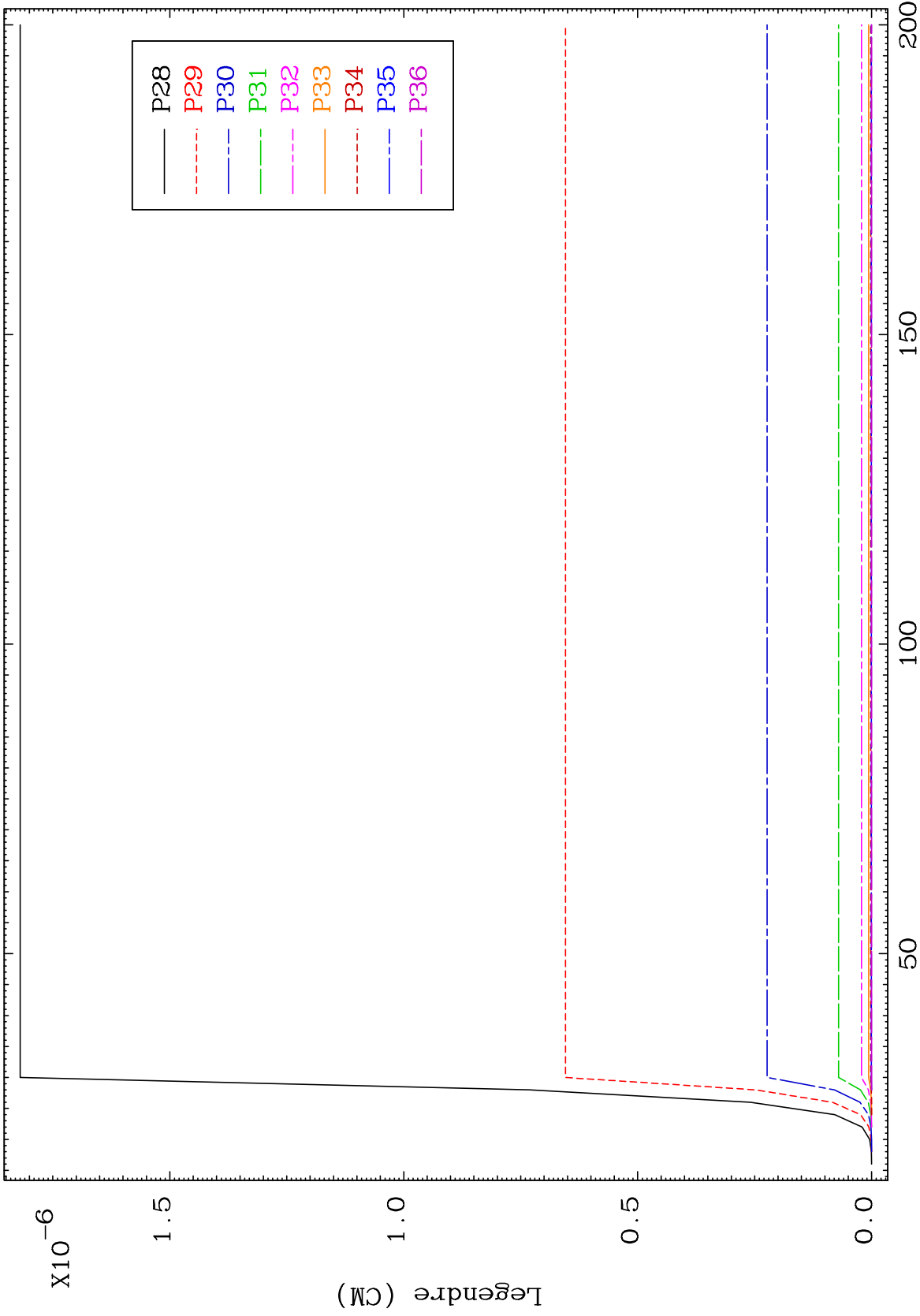
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



101

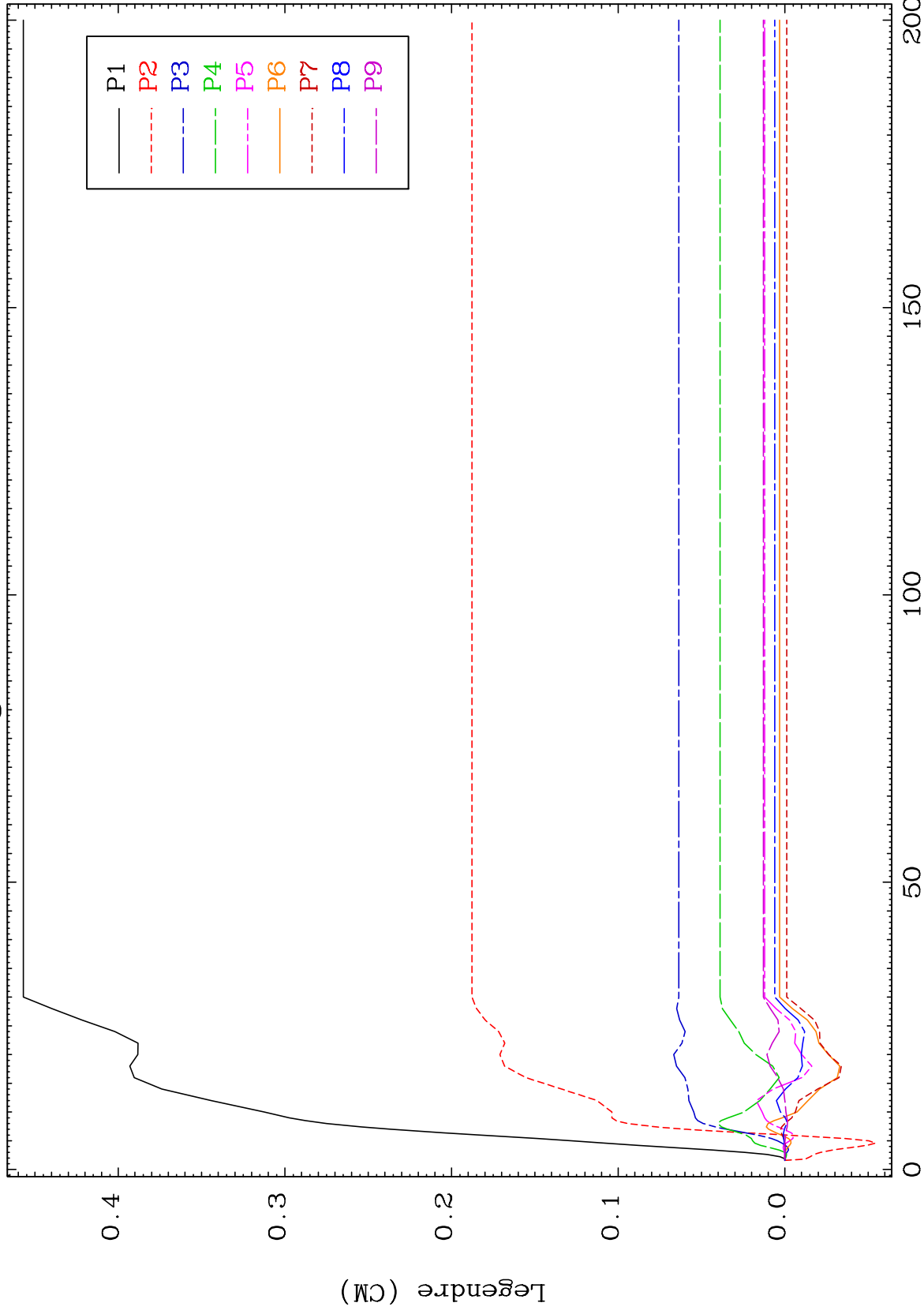
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



102

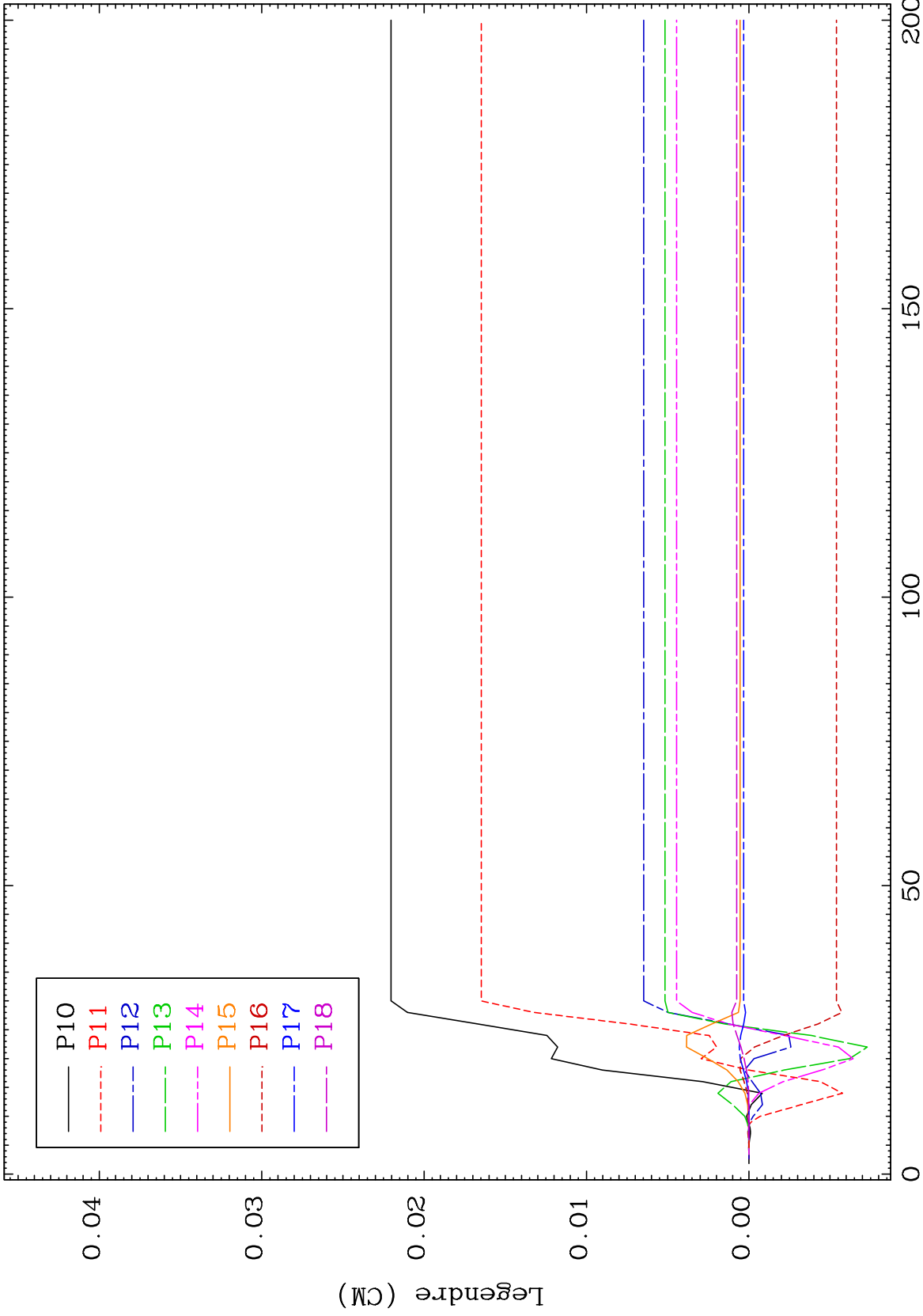
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



103

Incident Energy (MeV)

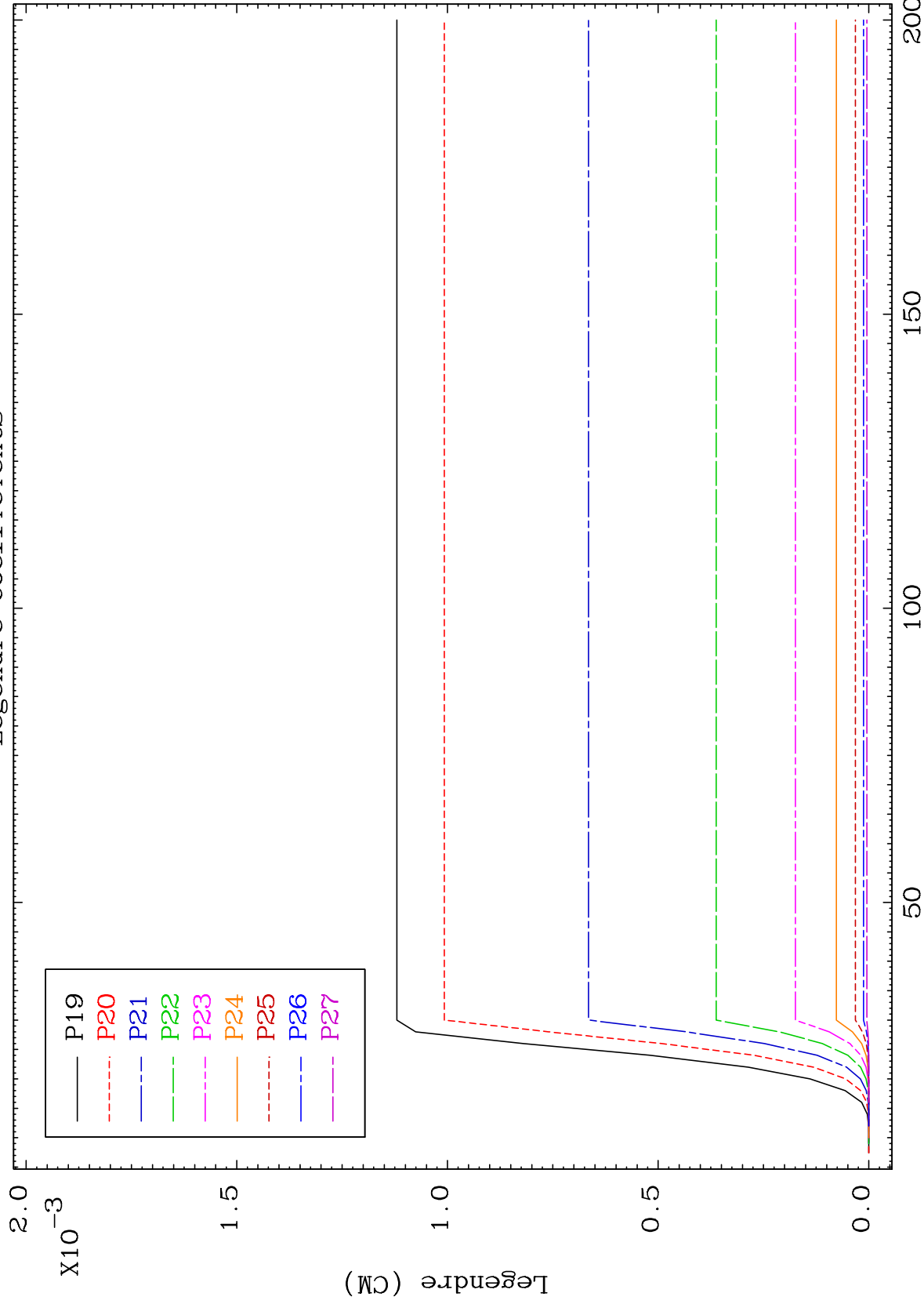
53-I -129



MAT 5331

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

53-I -129



104

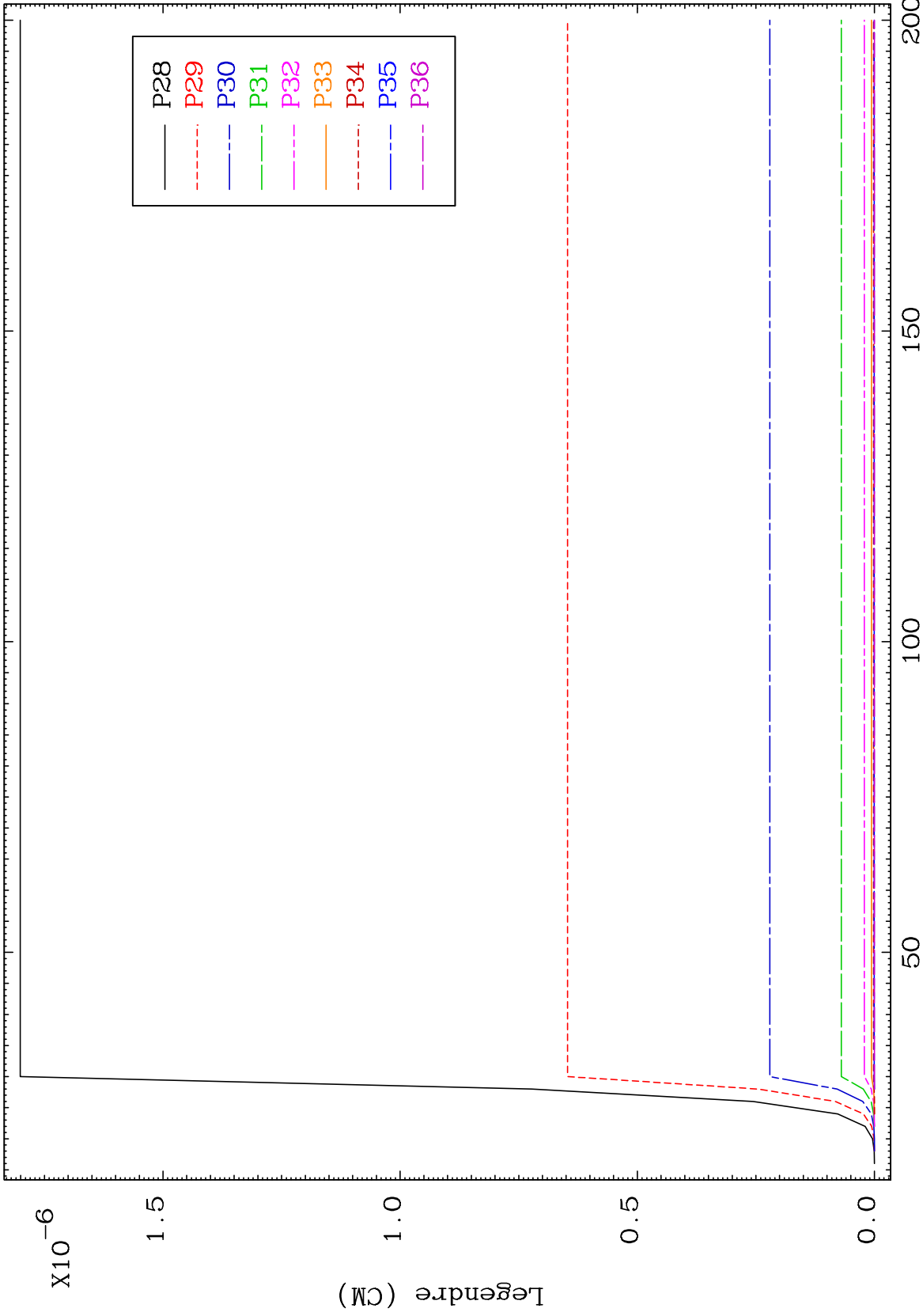
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



105

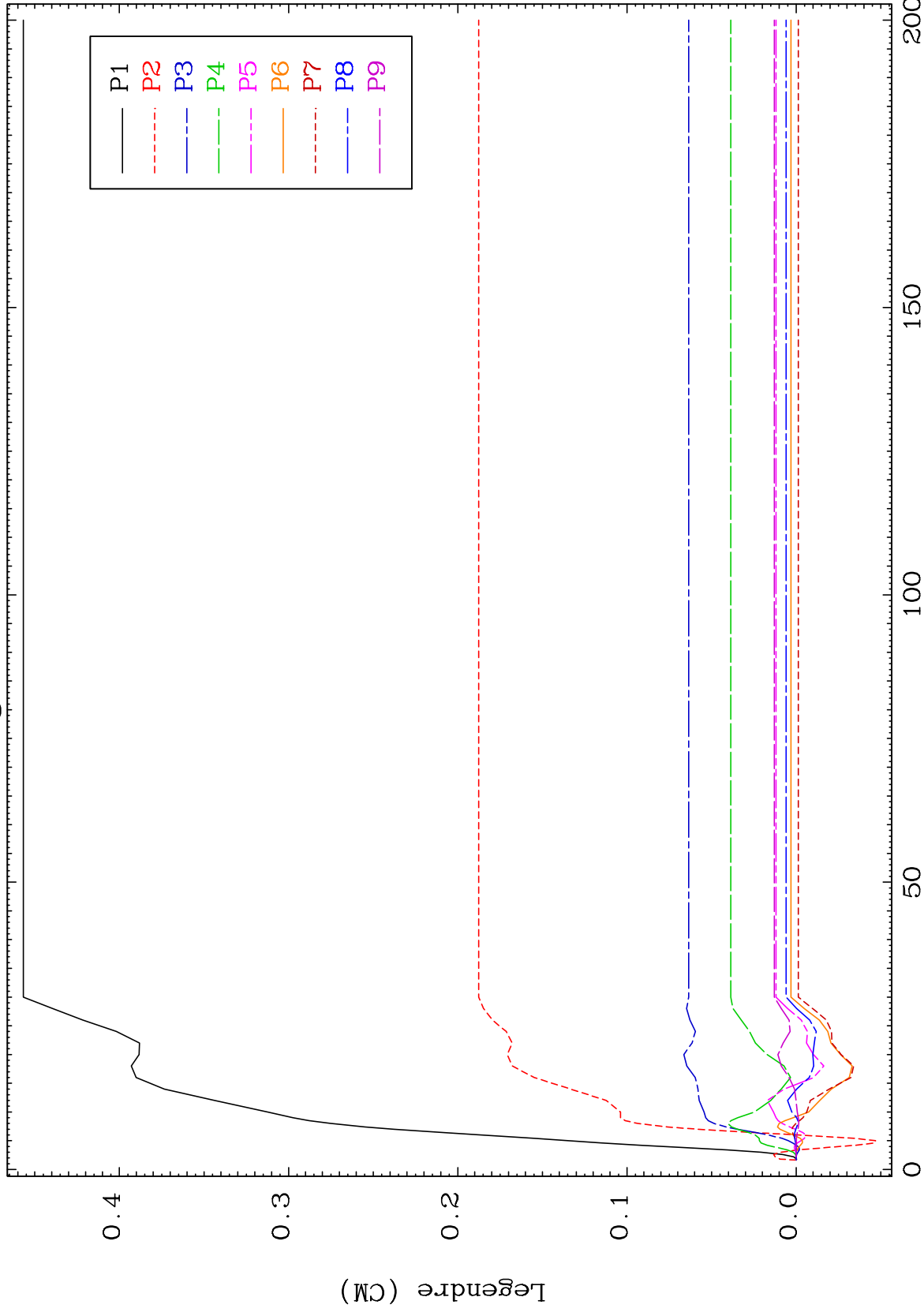
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



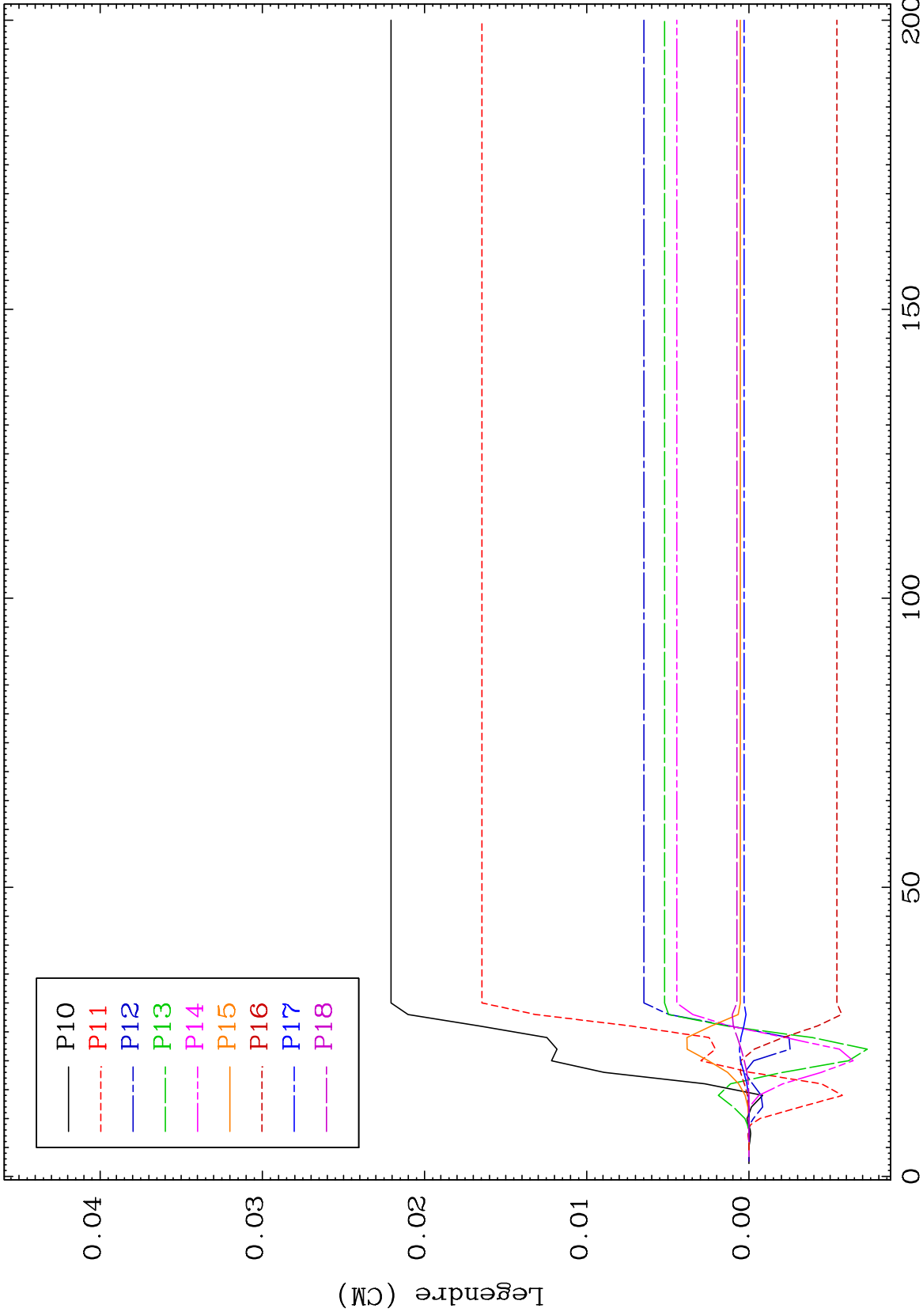
106

53-I -129

MAT 5331

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

53-I -129



107

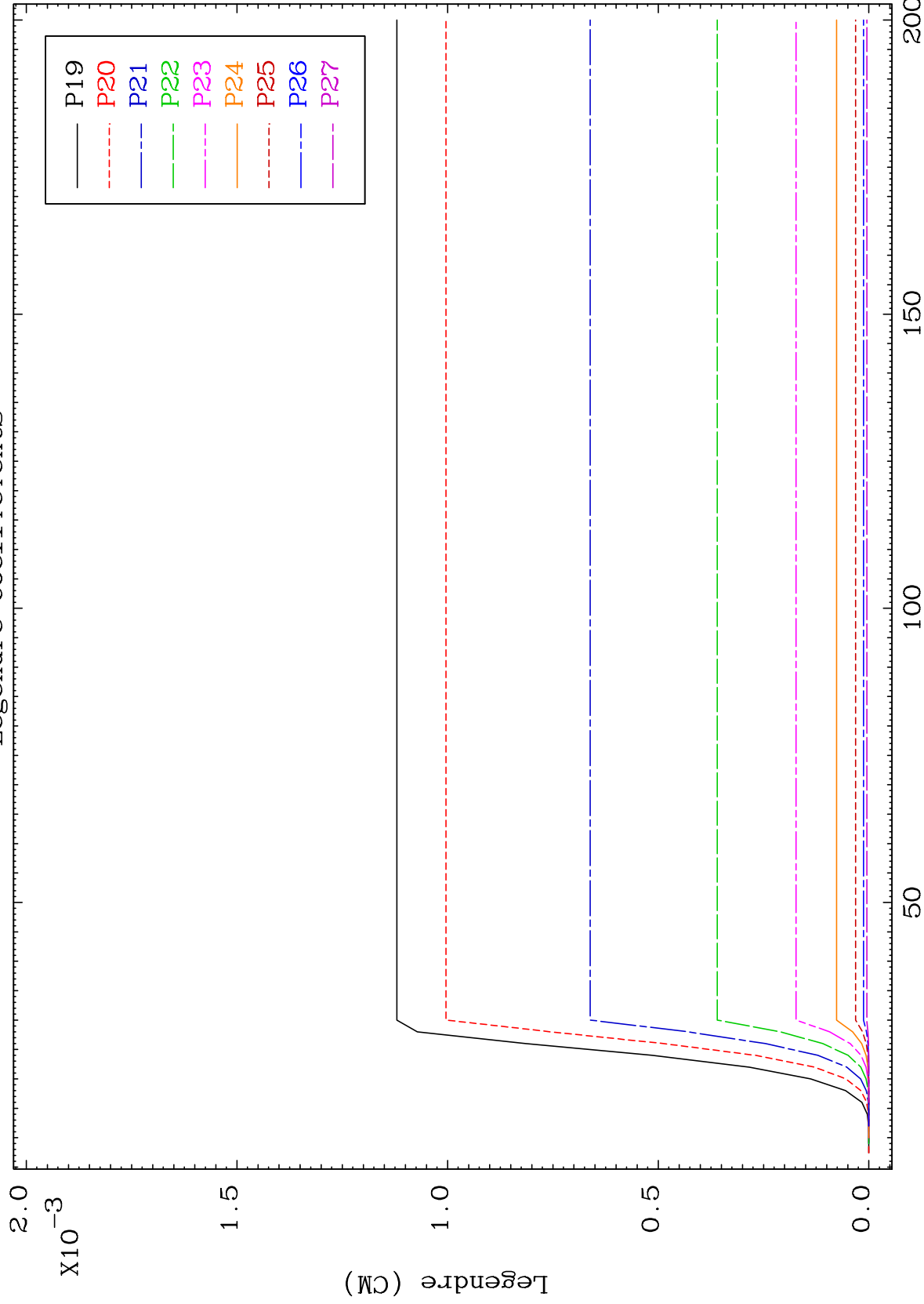
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



108

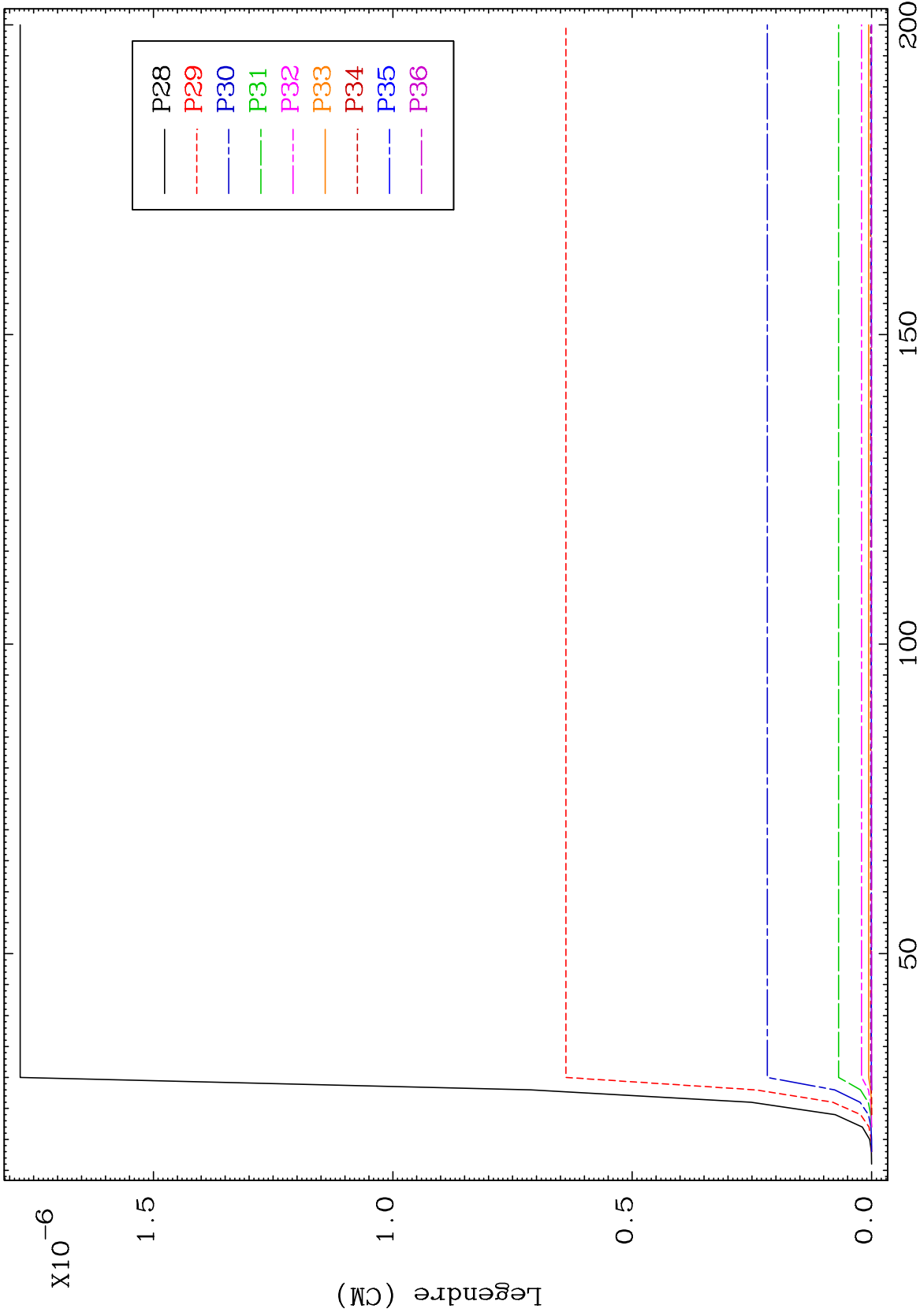
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



109

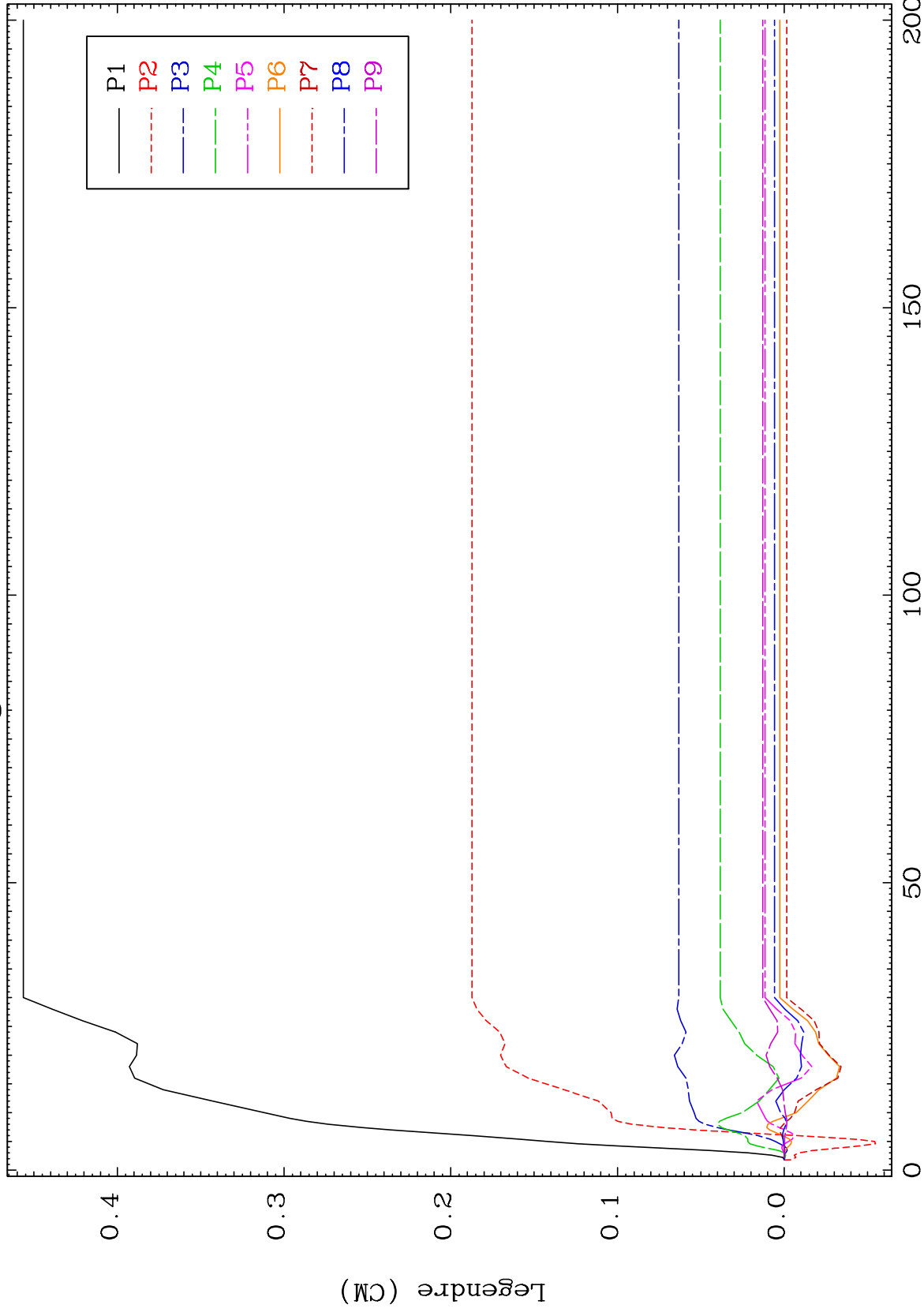
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



53-I -129

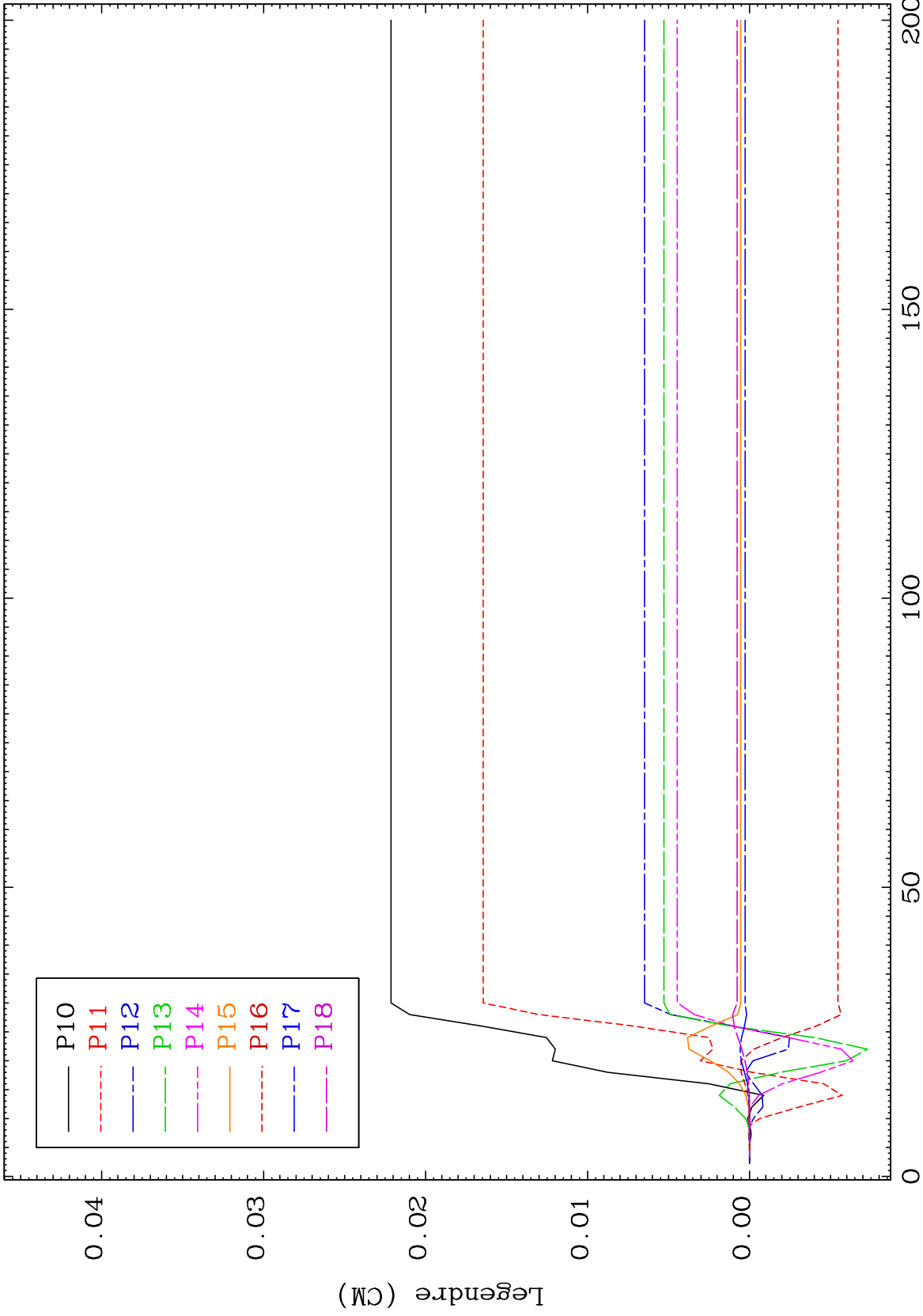
Incident Energy (MeV)

110

MAT 5331

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

53-I -129



111

Incident Energy (MeV)

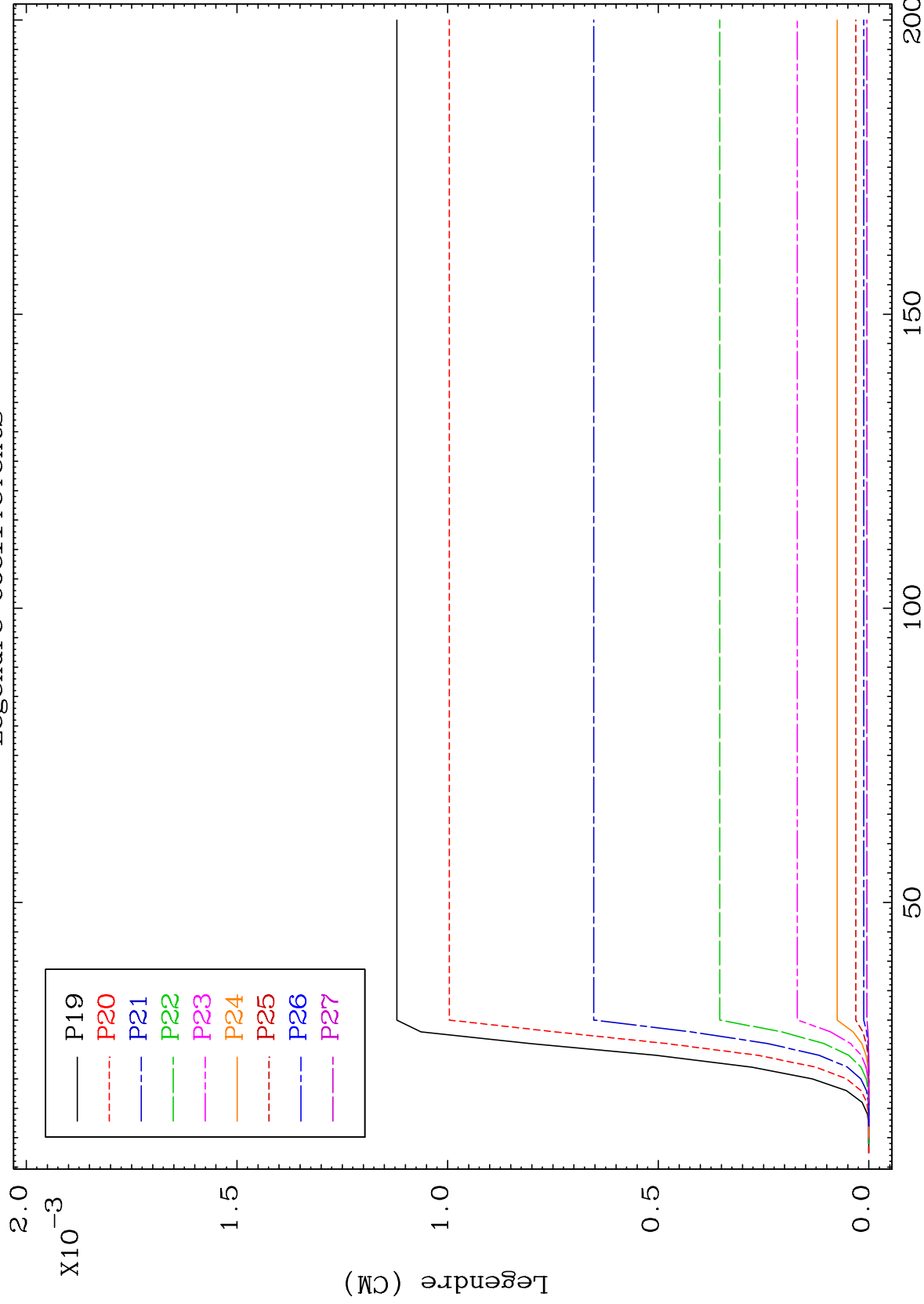
53-I -129



MAT 5331

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

53-I -129



112

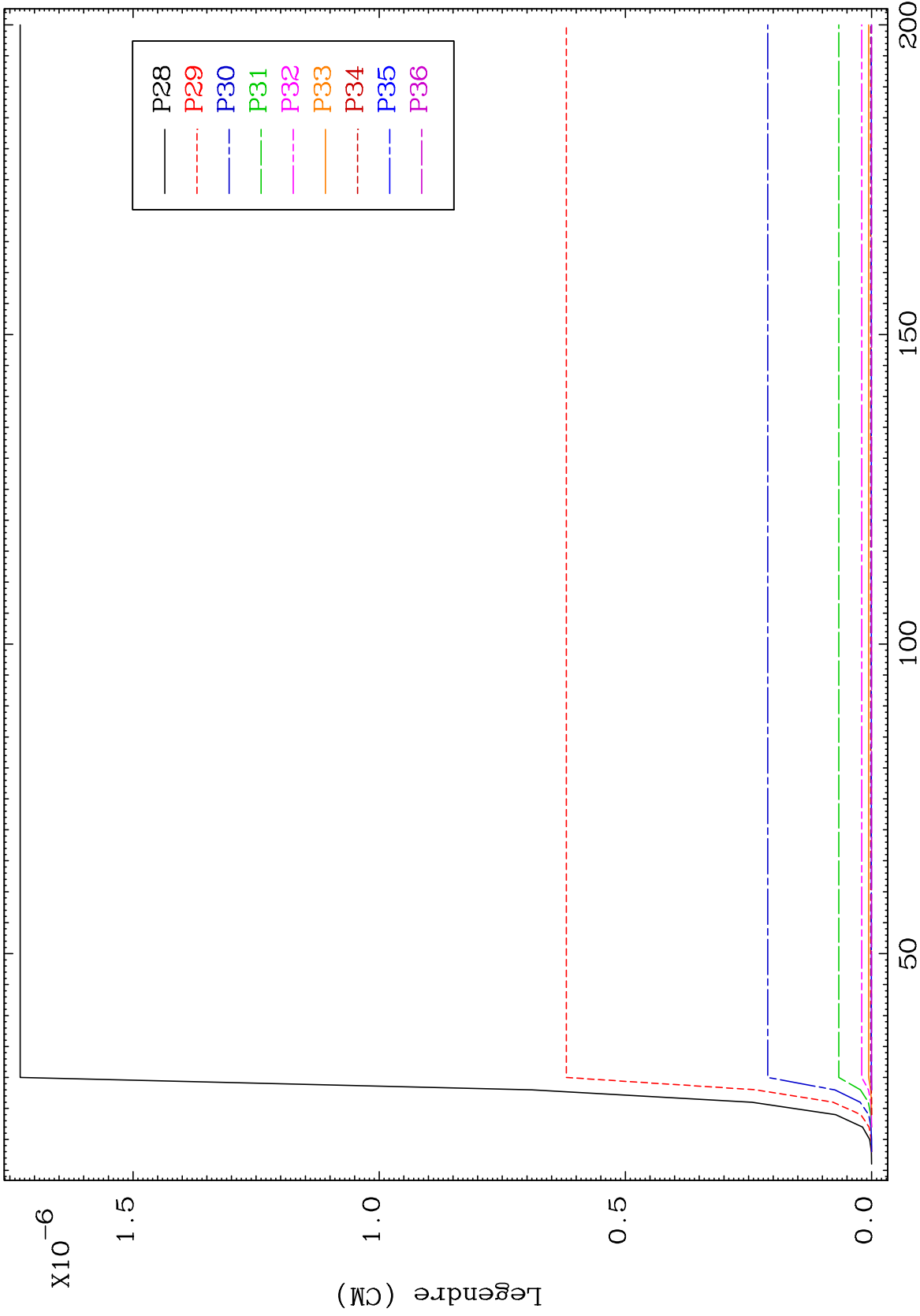
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



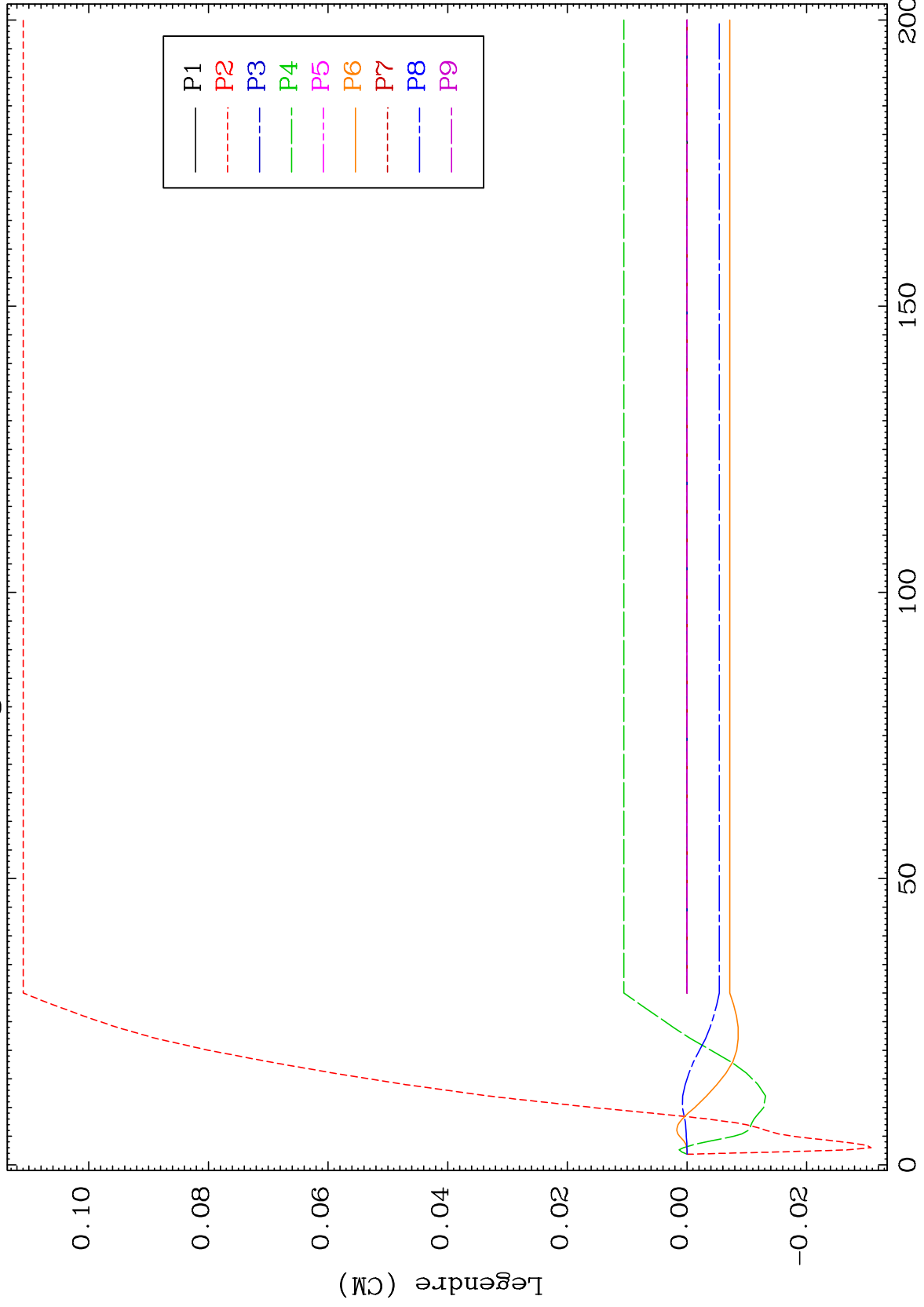
113

53-I -129

MAT 5331

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

53-I -129



114

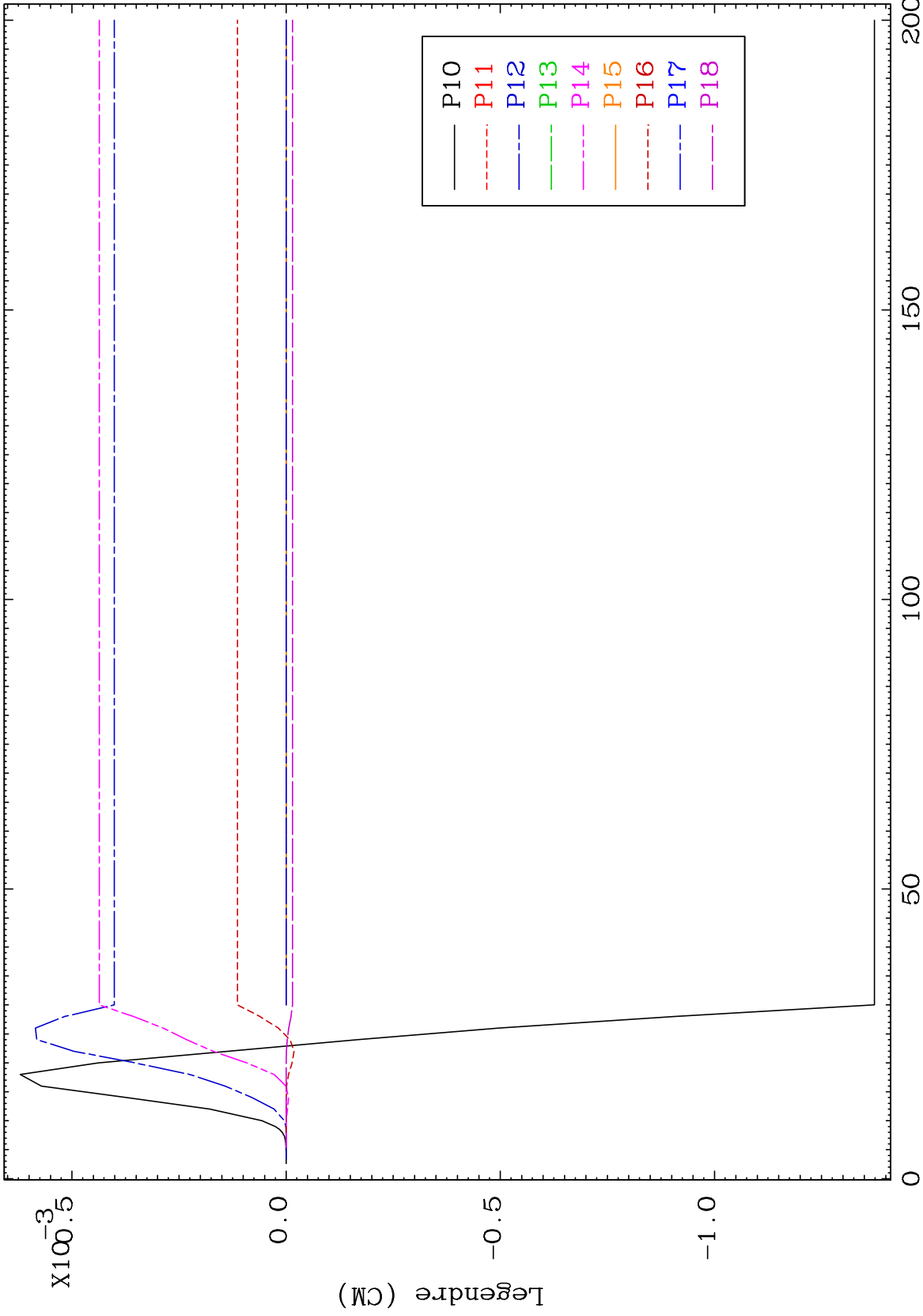
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



115

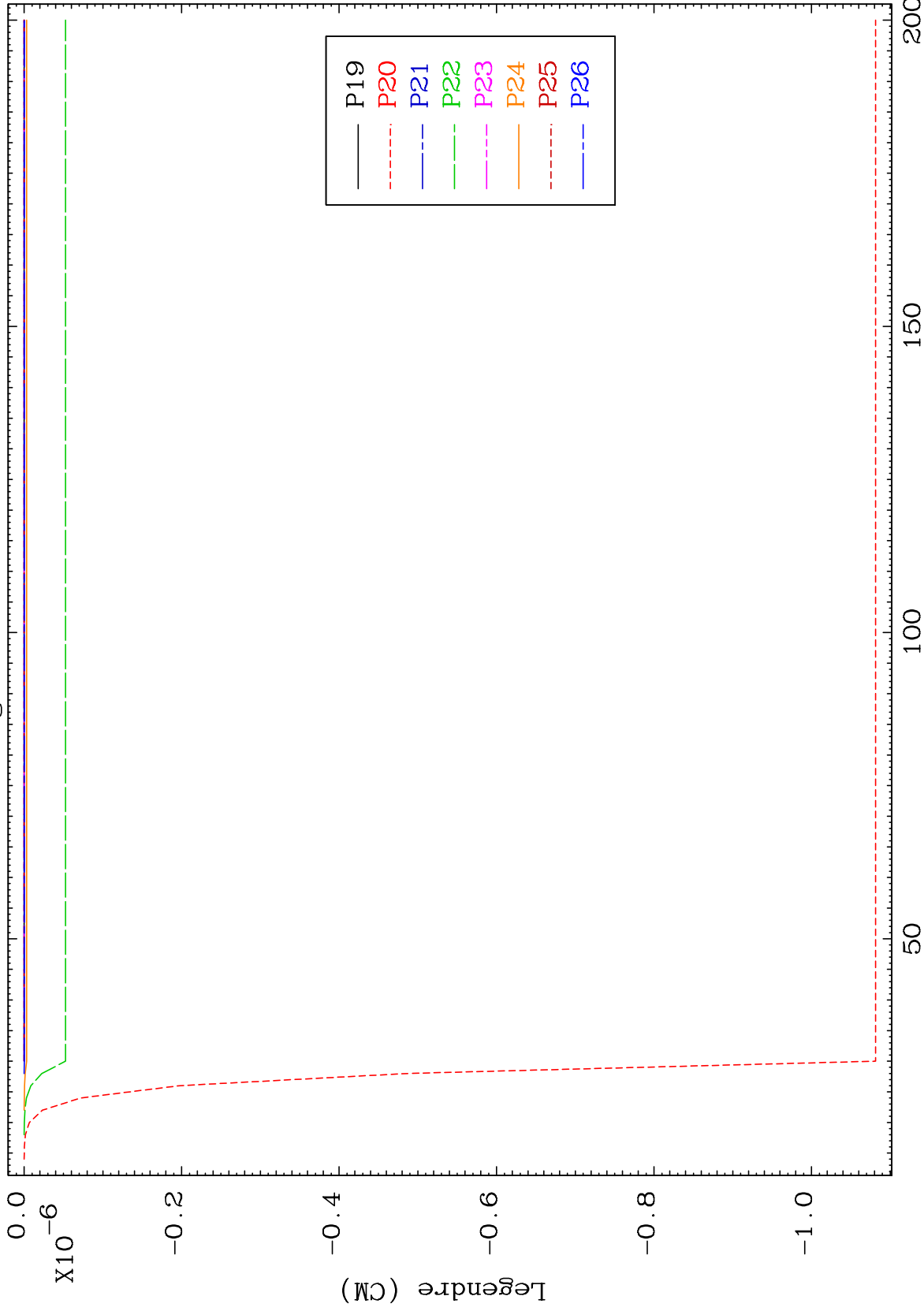
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



116

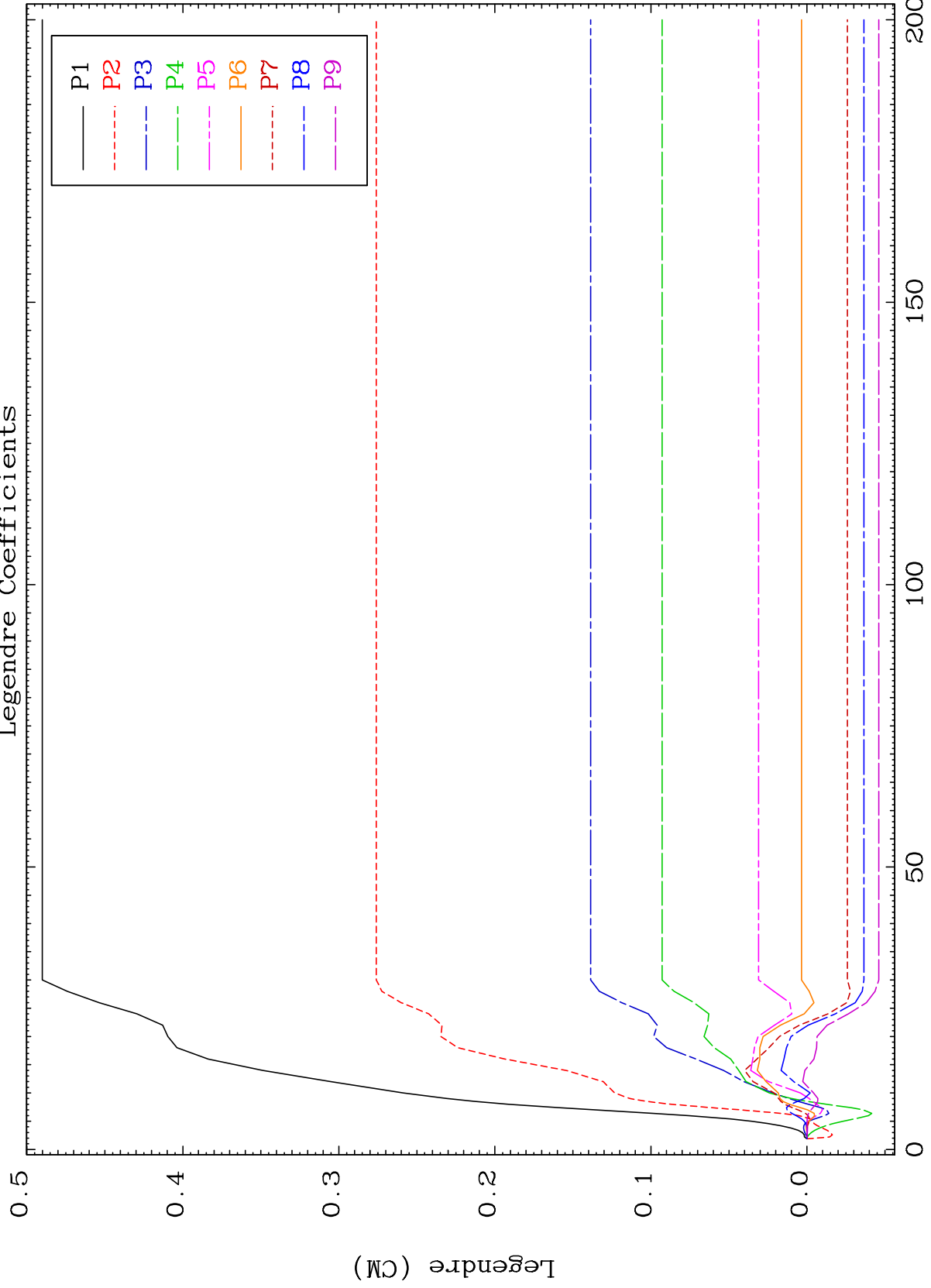
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



117

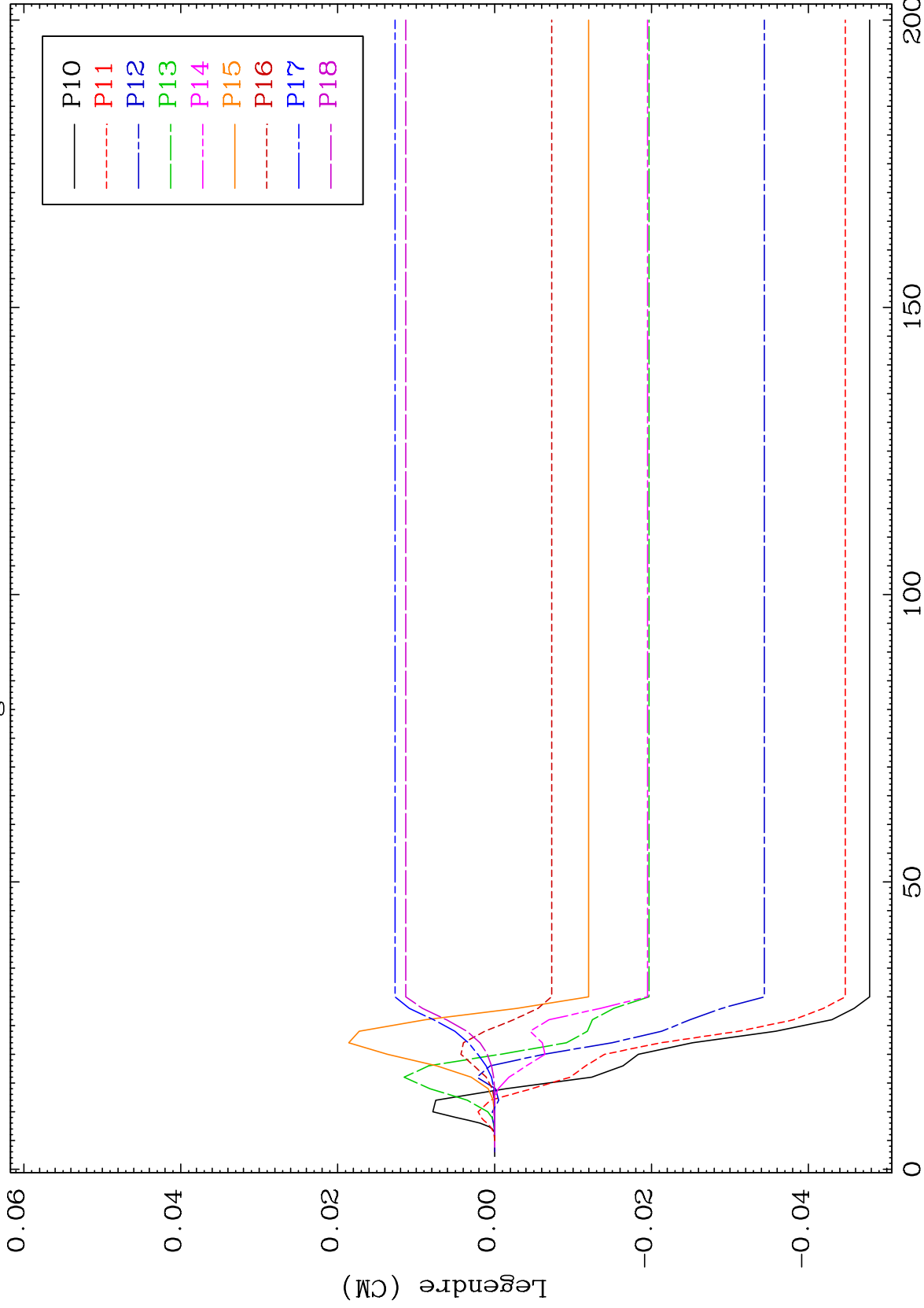
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



118

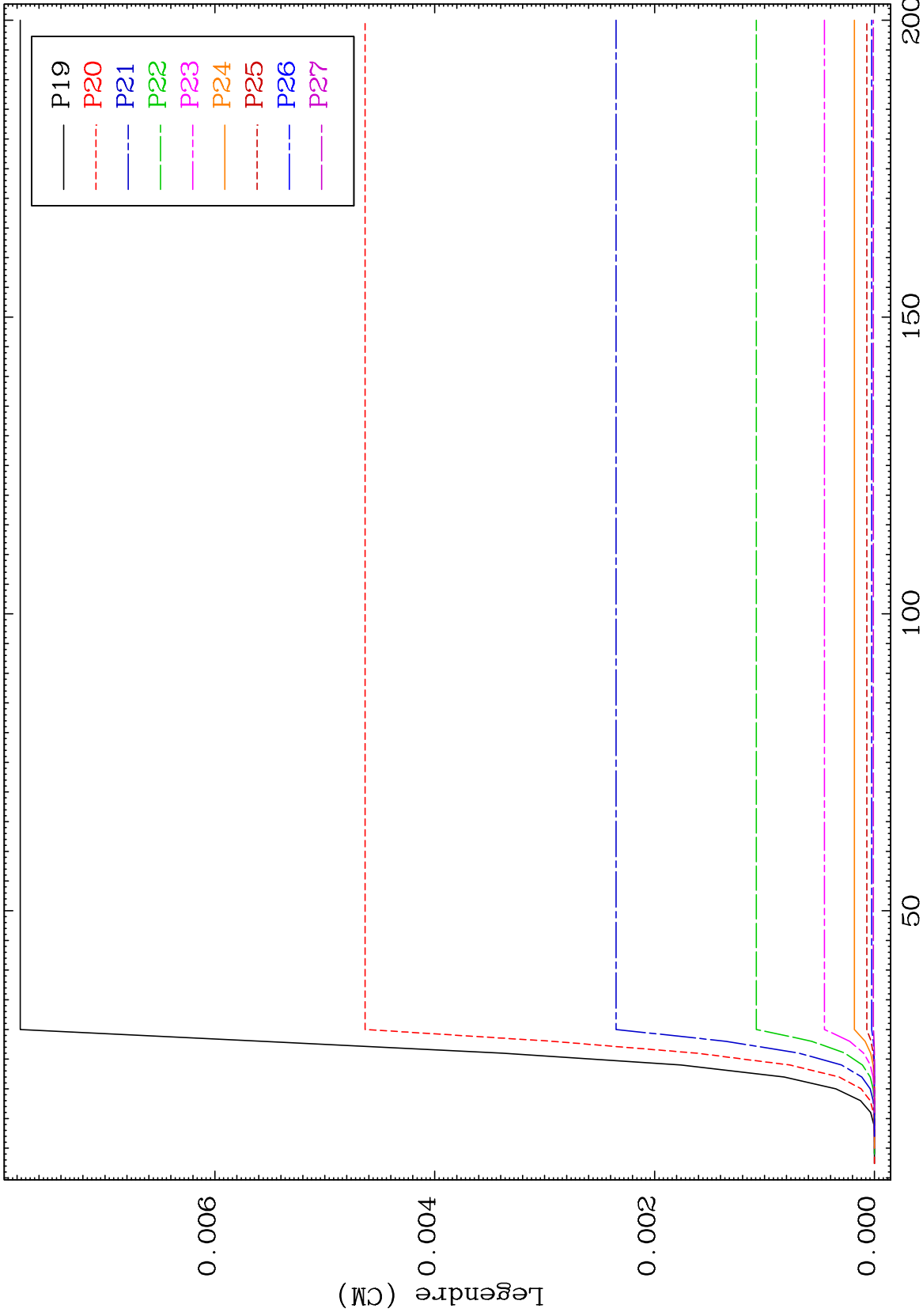
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



119

Incident Energy (MeV)

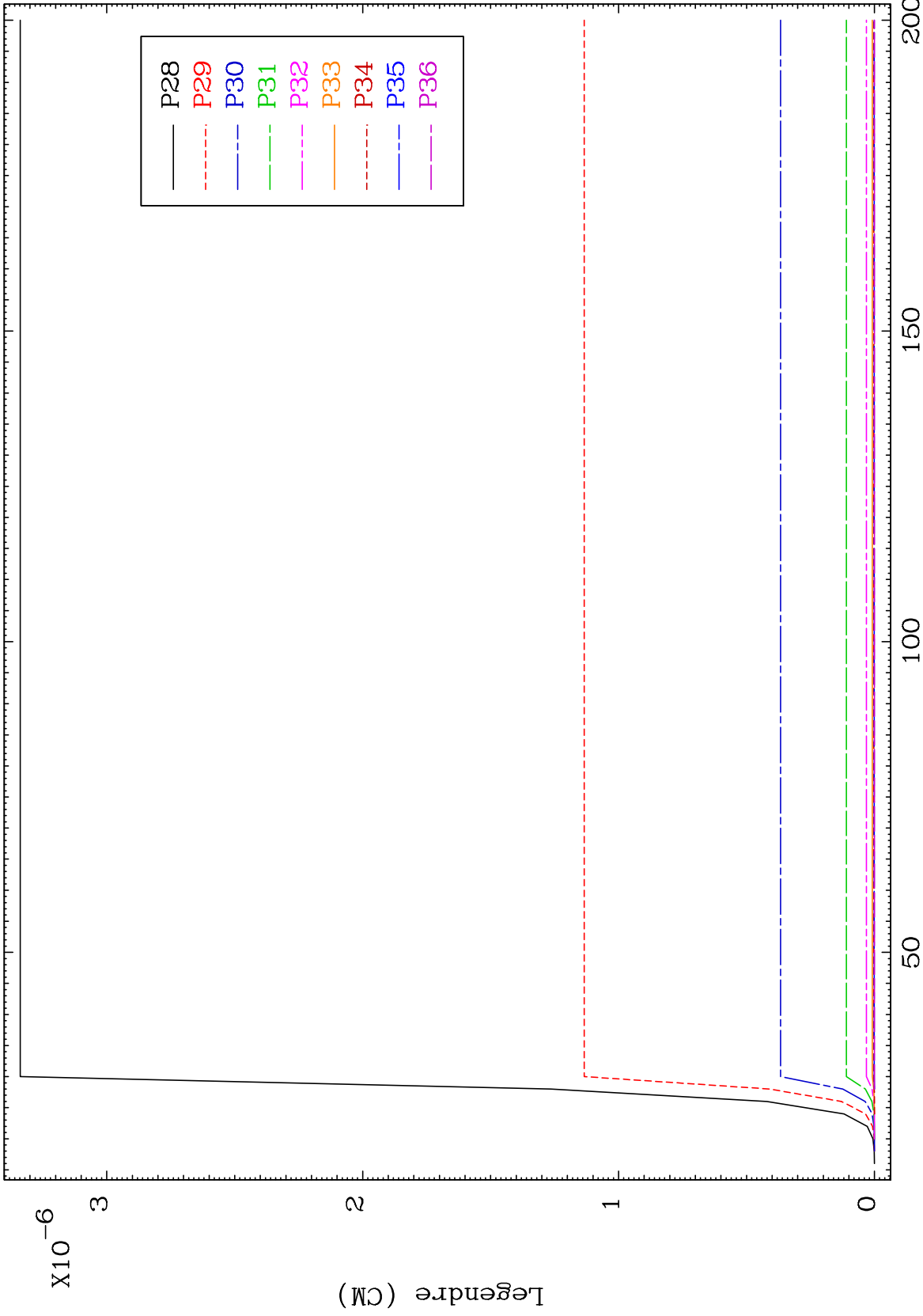
53-I -129



MAT 5331

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

53-I -129



120

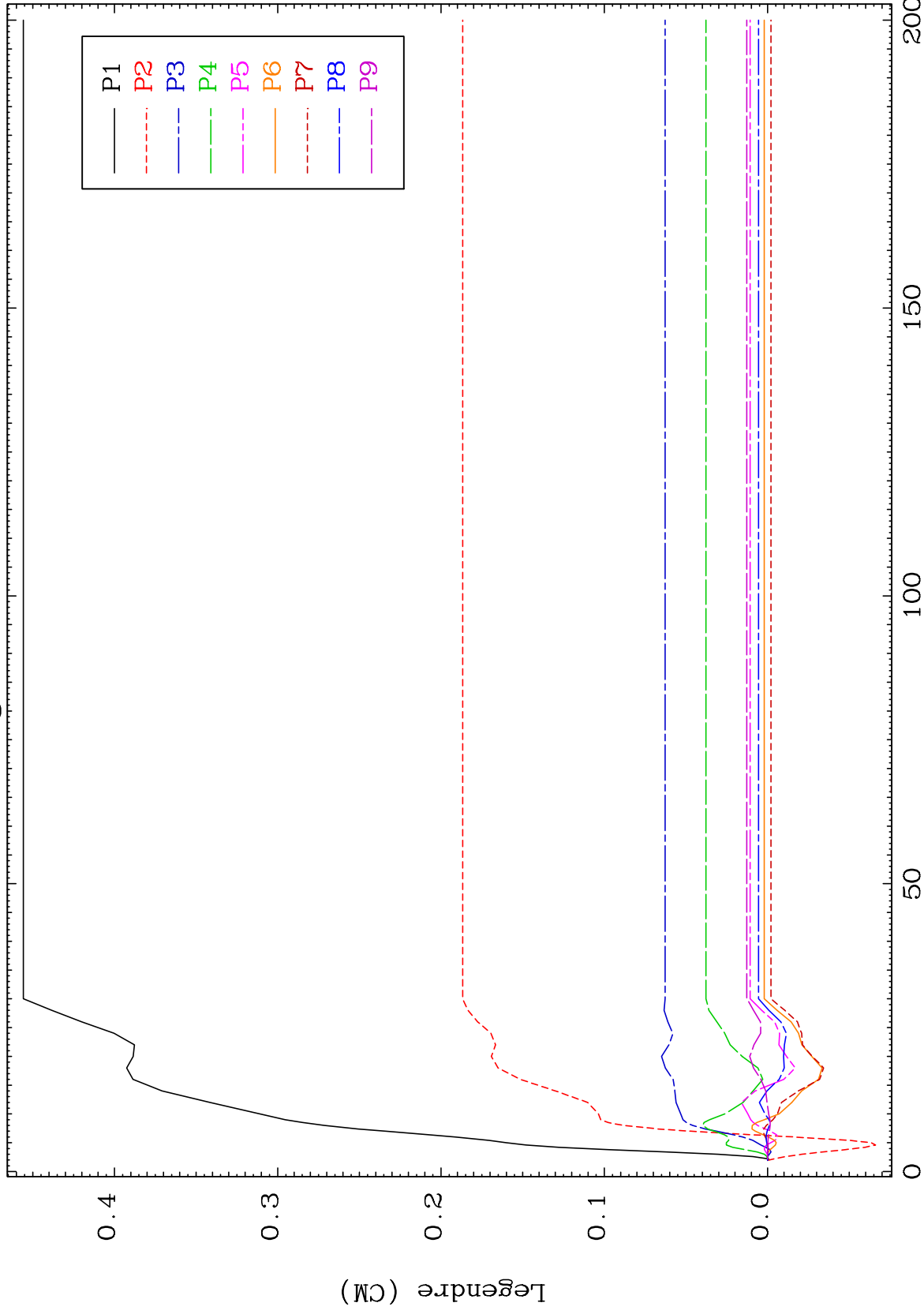
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



121

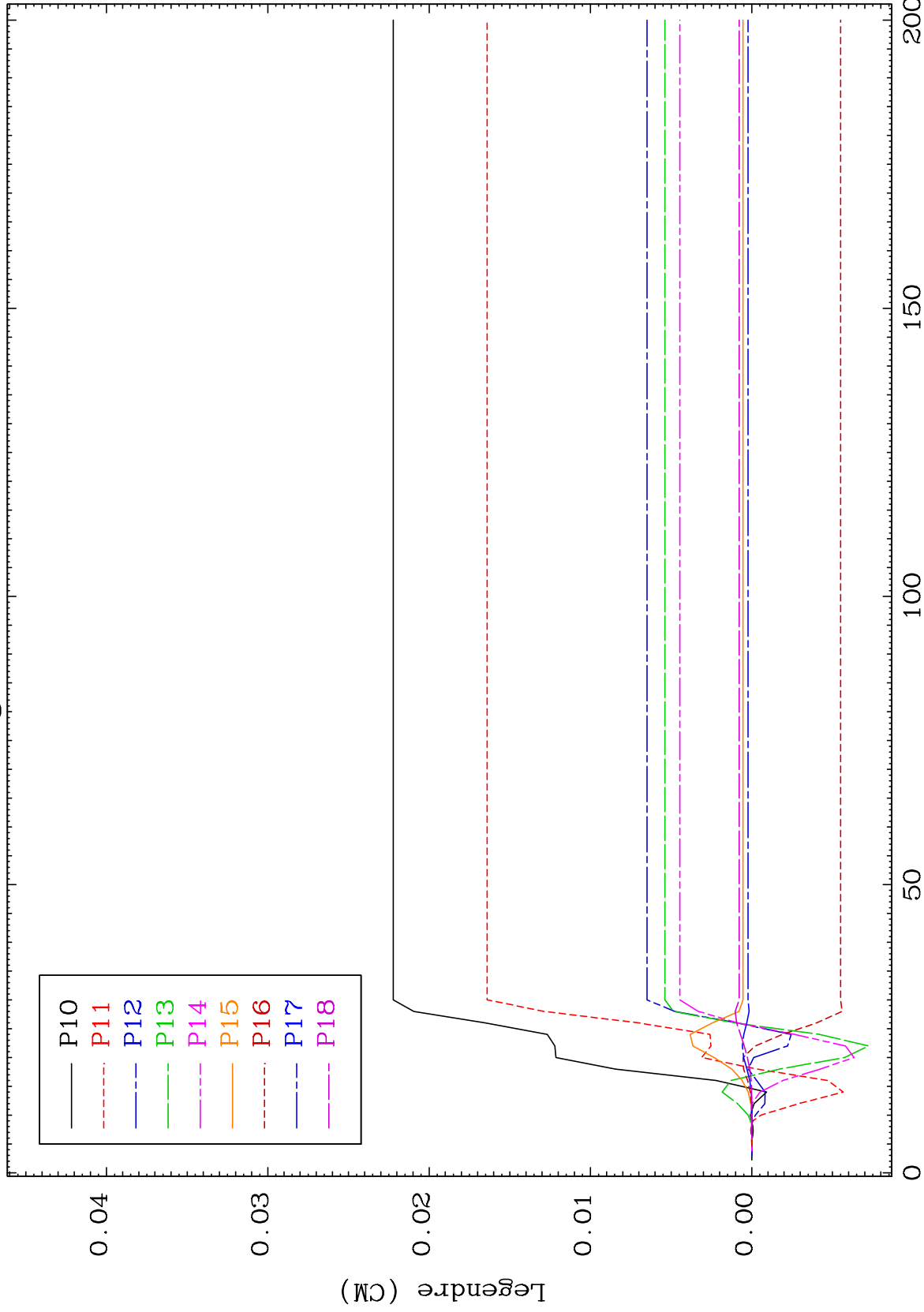
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



122

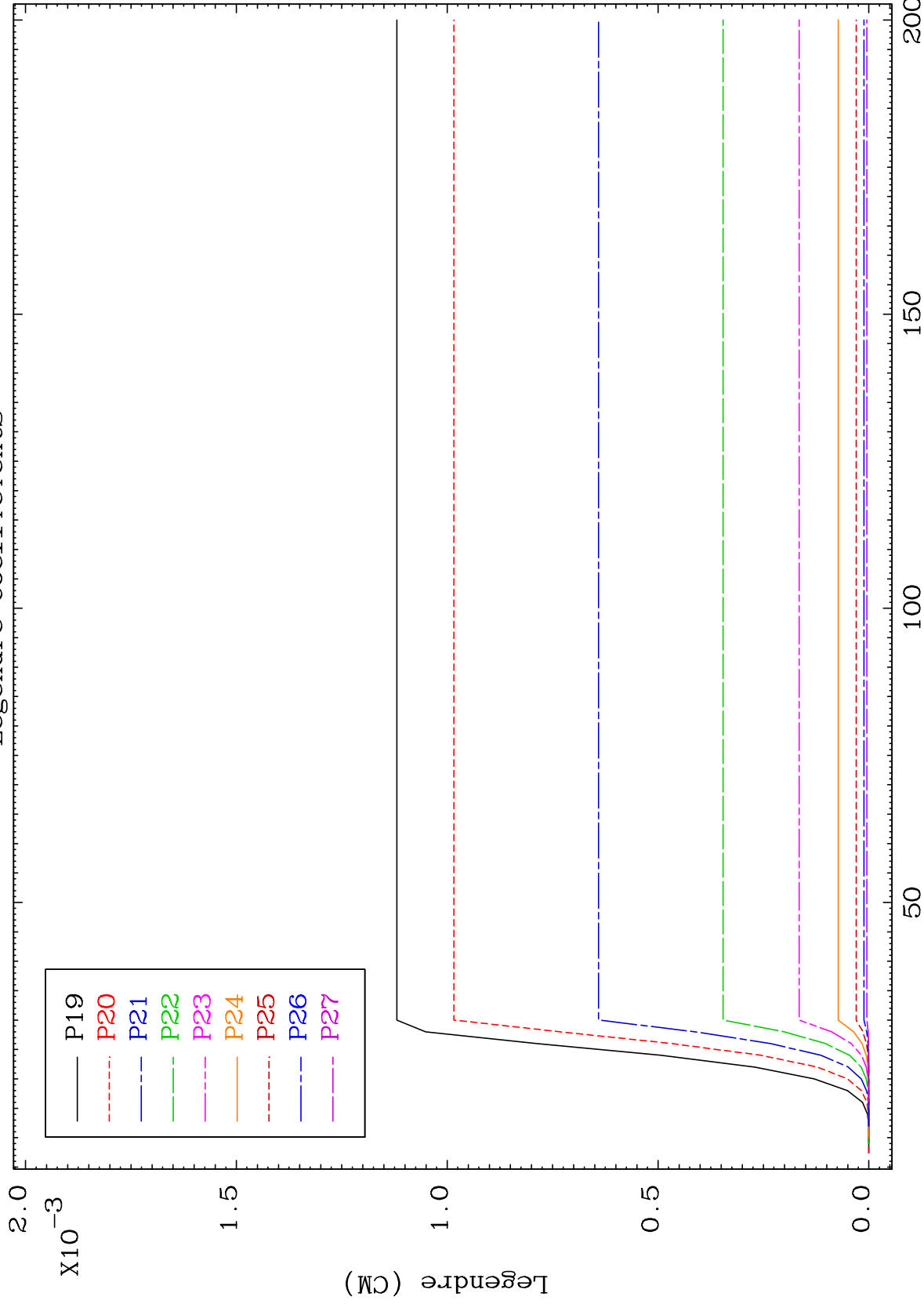
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



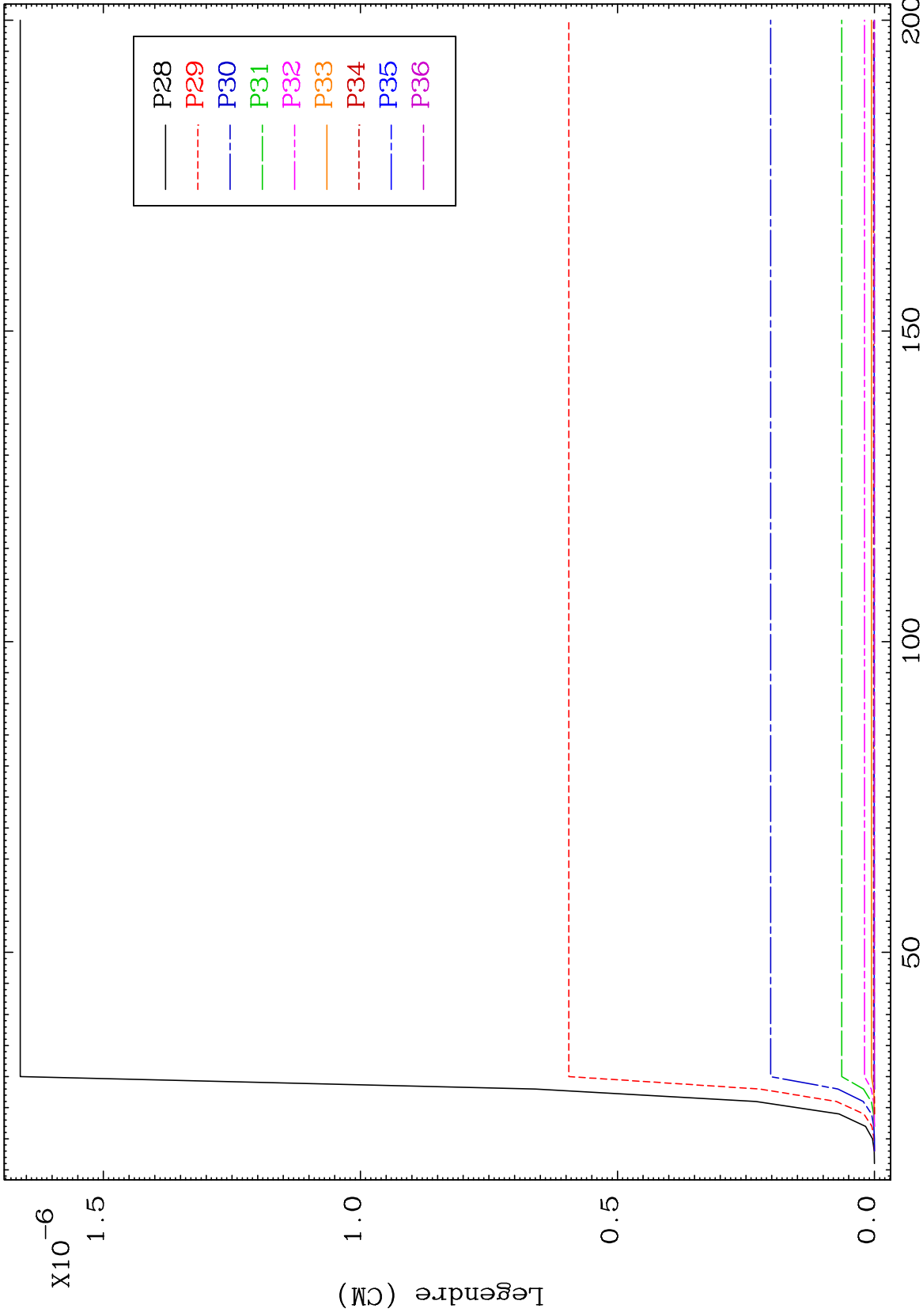
123

53-I -129

MAT 5331

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

53-I -129



124

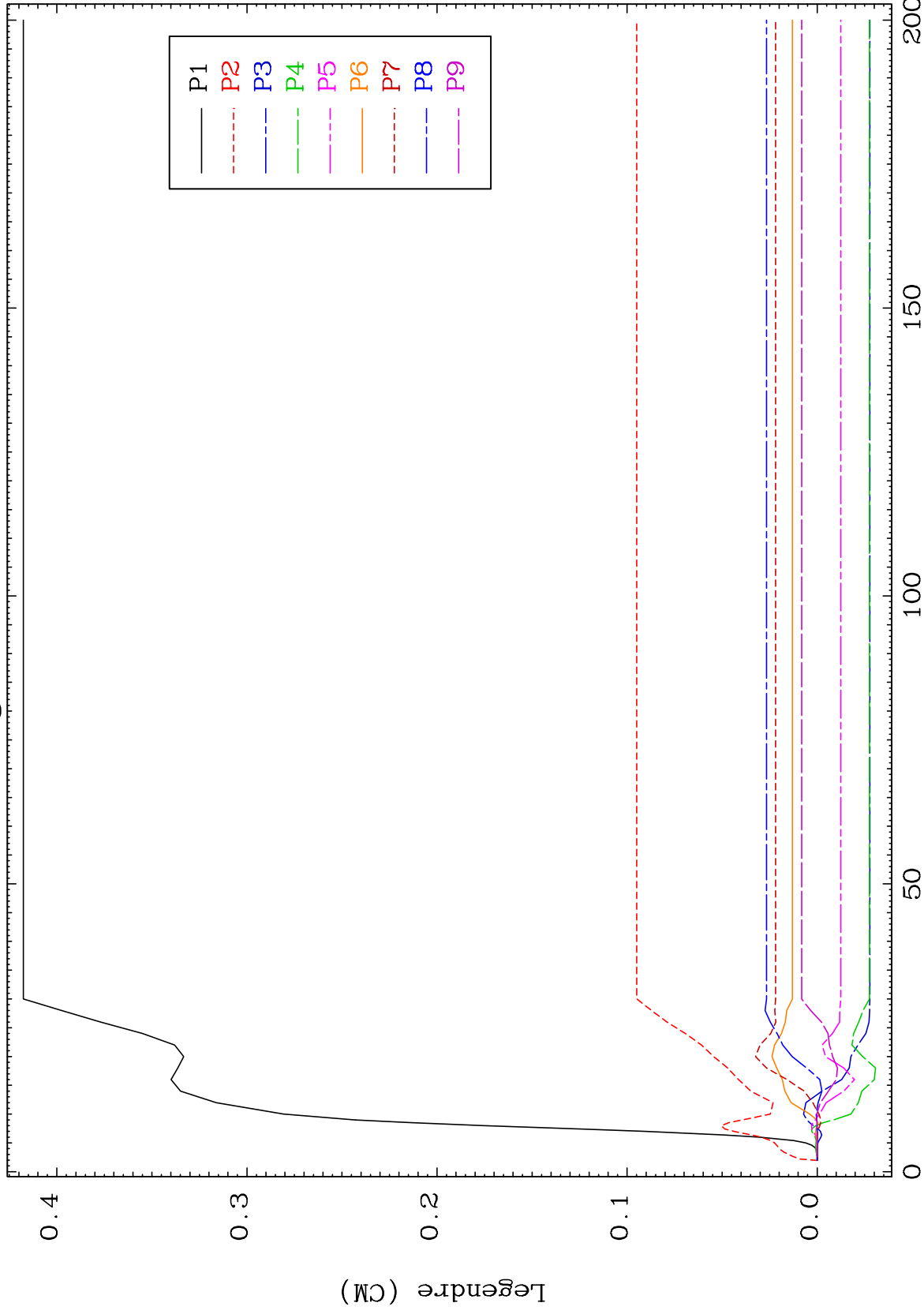
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



125

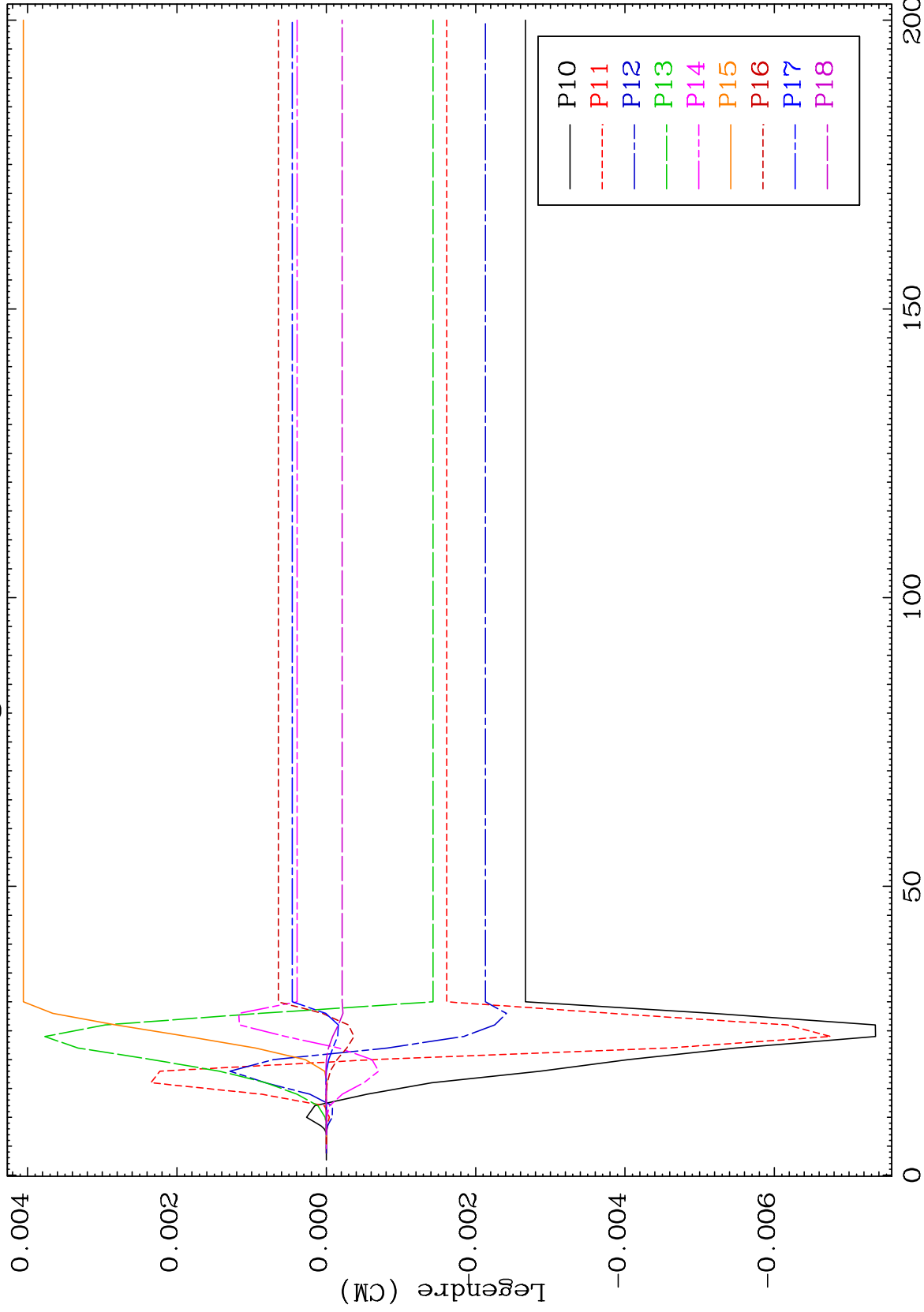
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



126

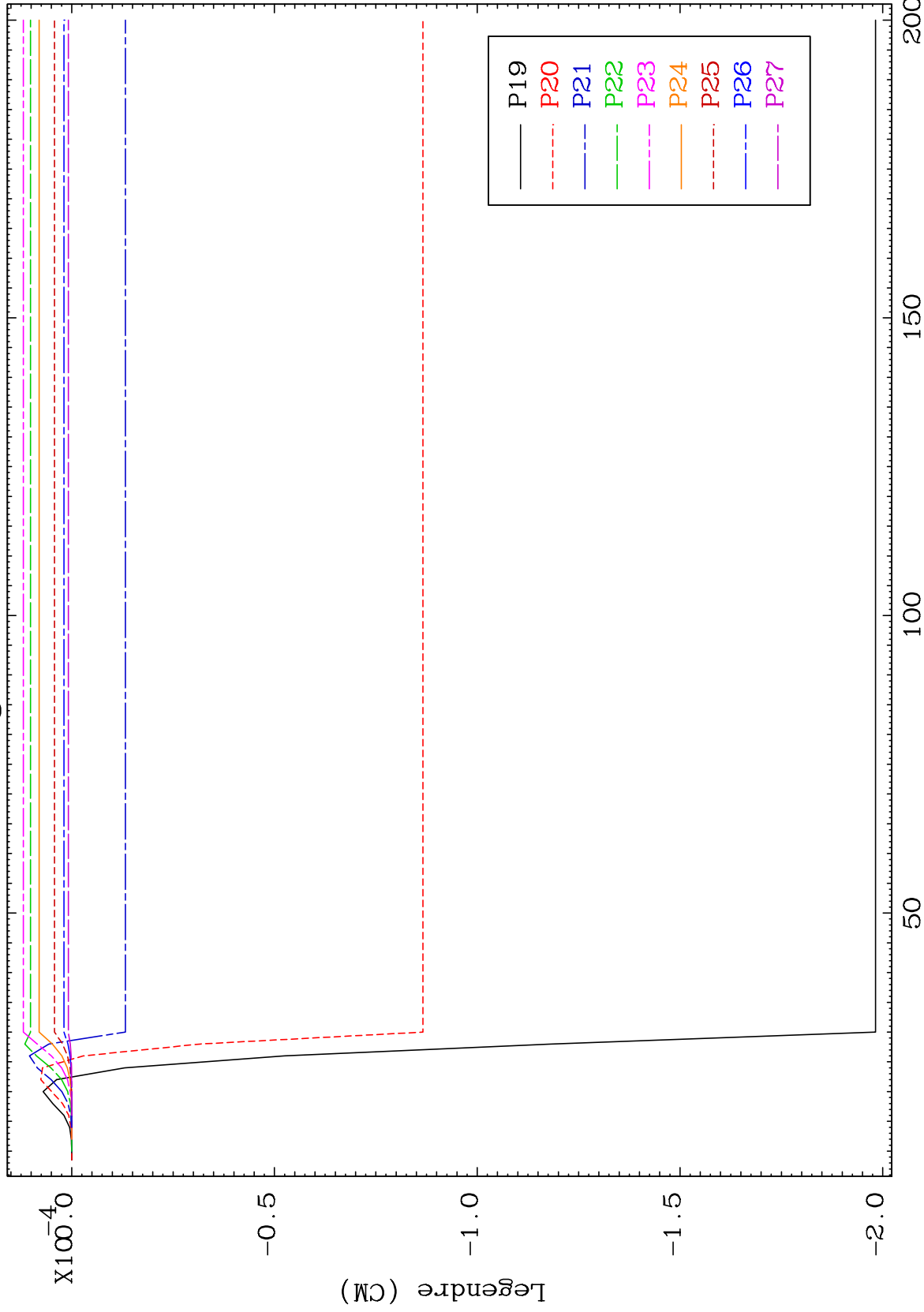
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



127

Incident Energy (MeV)

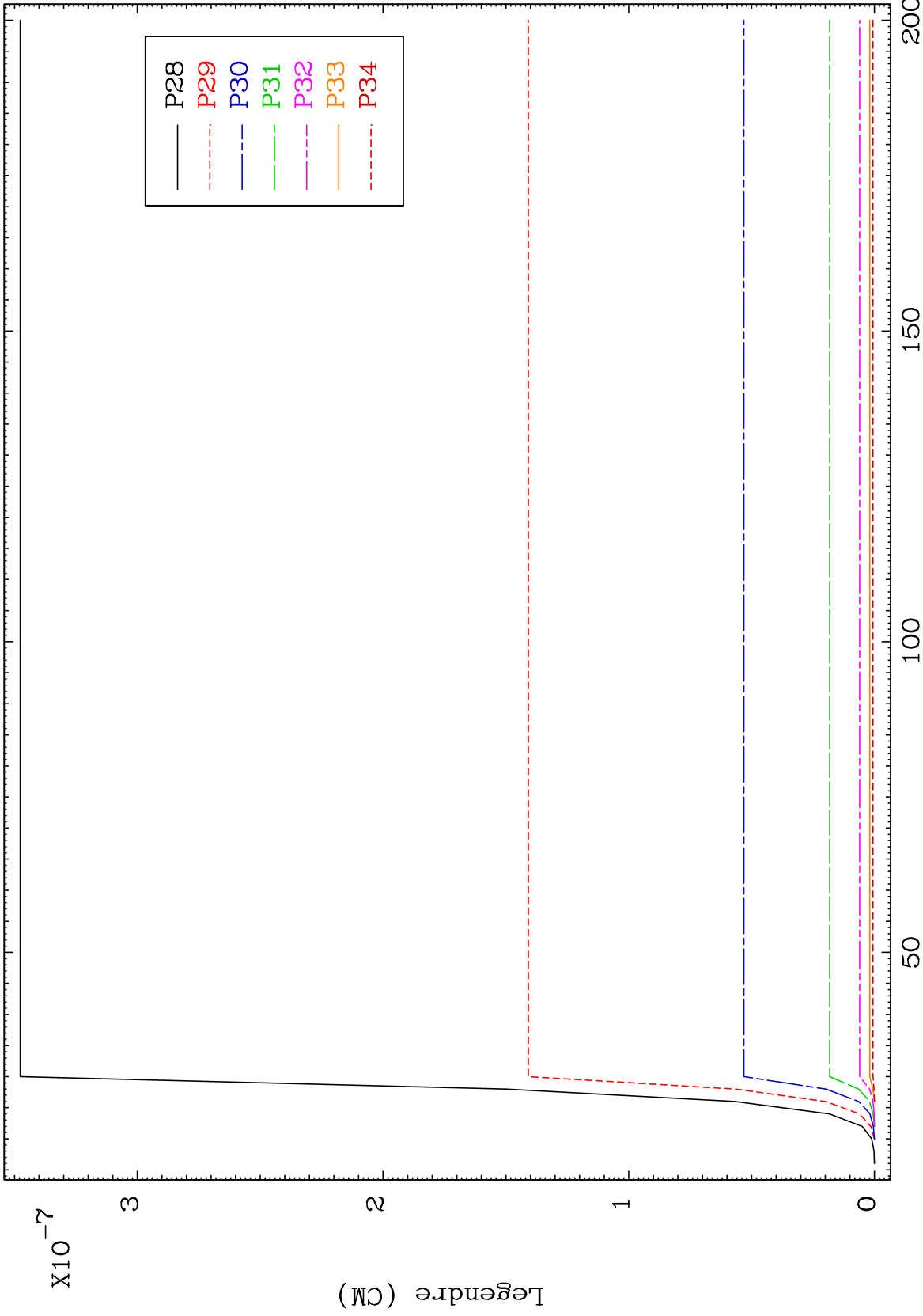
53-I -129



MAT 5331

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

53-I -129



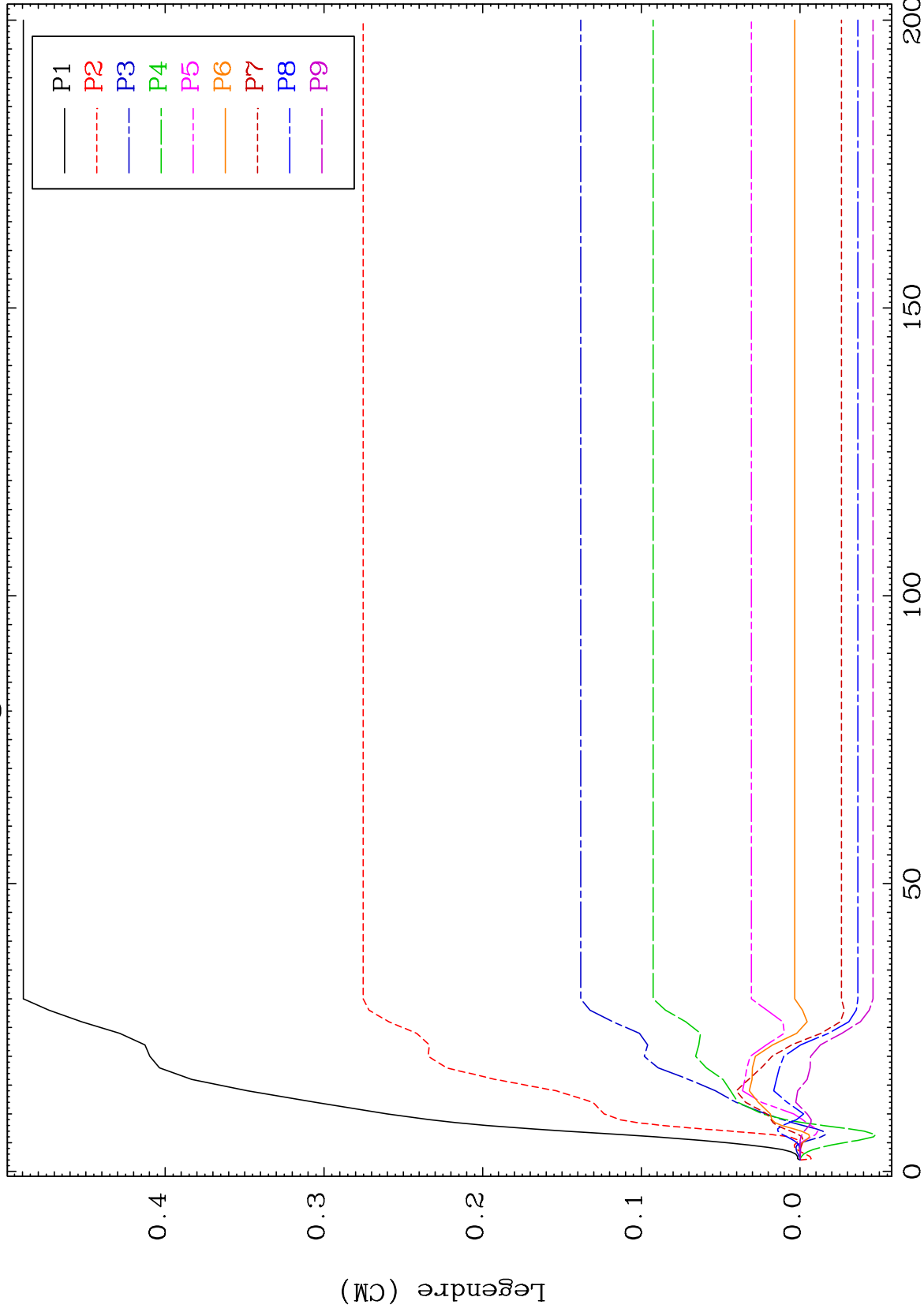
128

53-I -129

MAT 5331

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

53-I -129



129

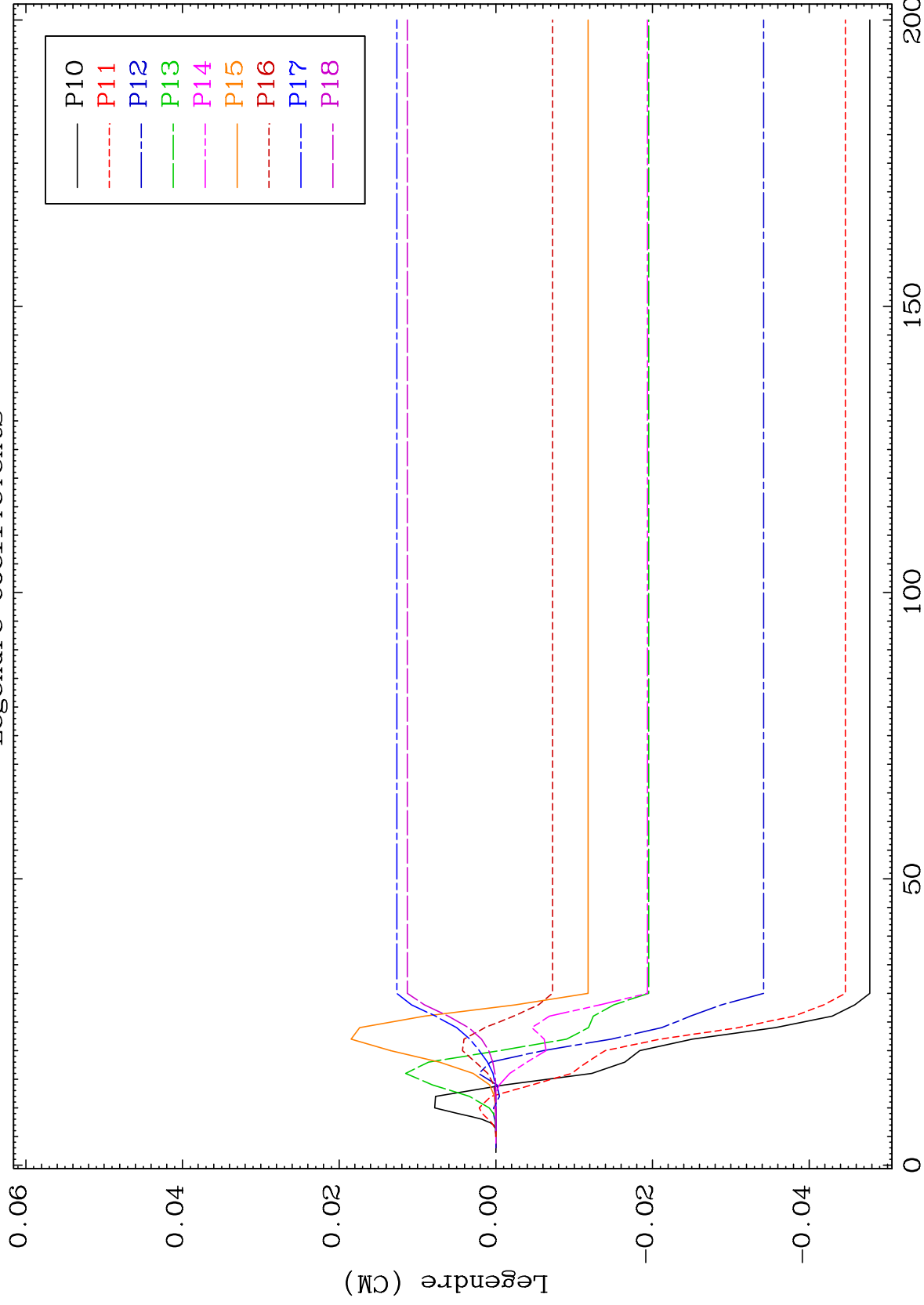
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



130

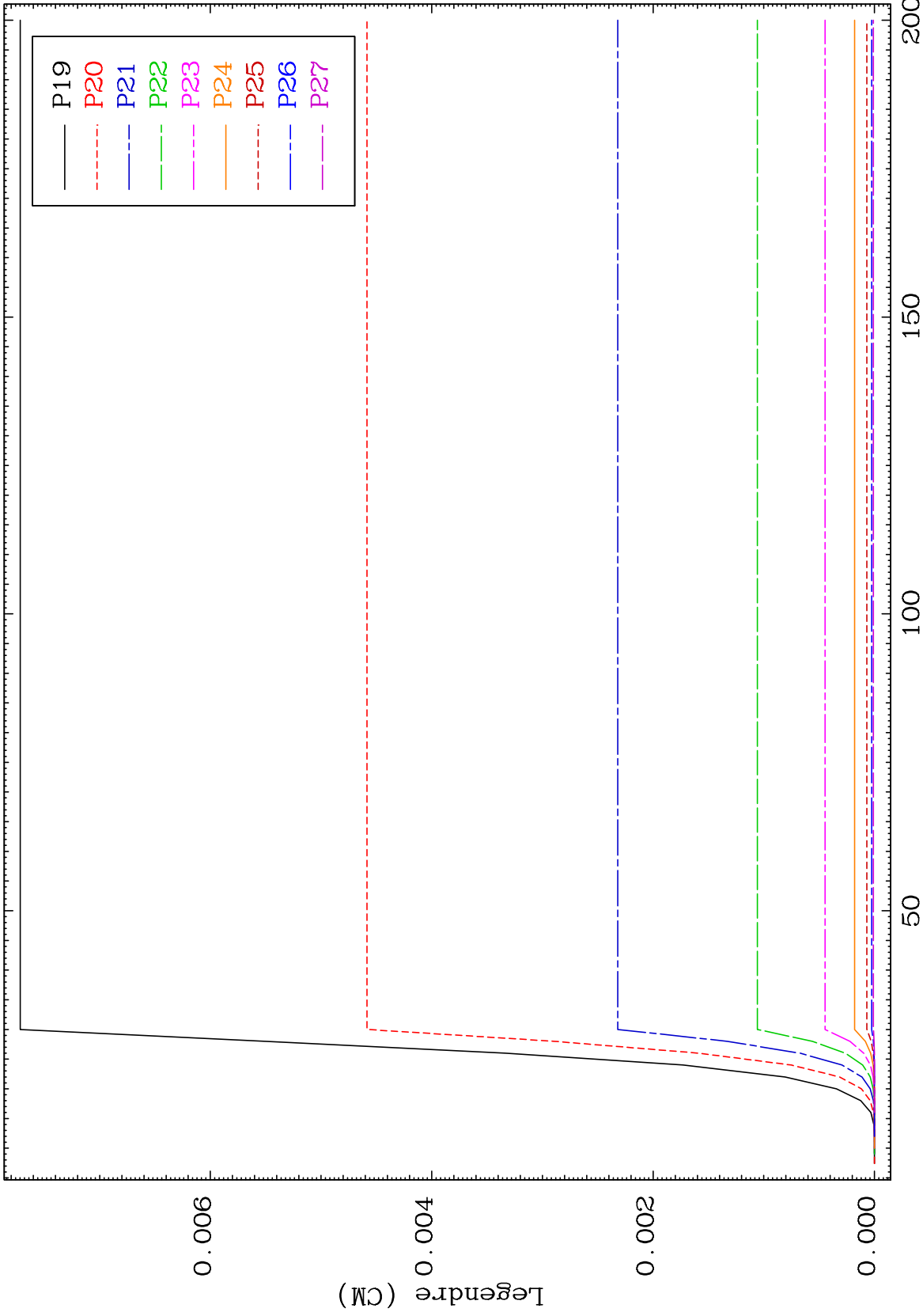
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



131

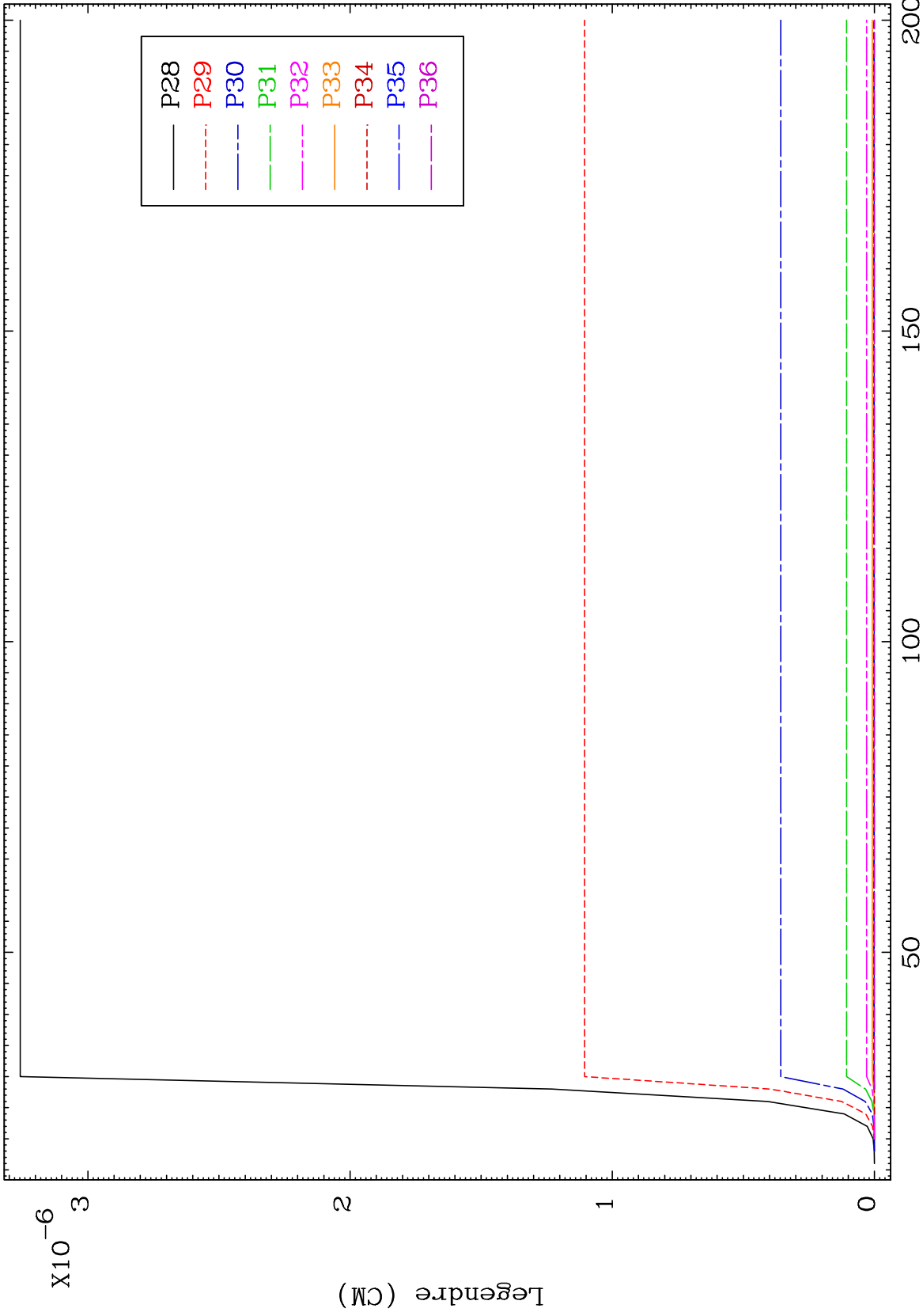
Incident Energy (MeV)

53-I -129

MAT 5331

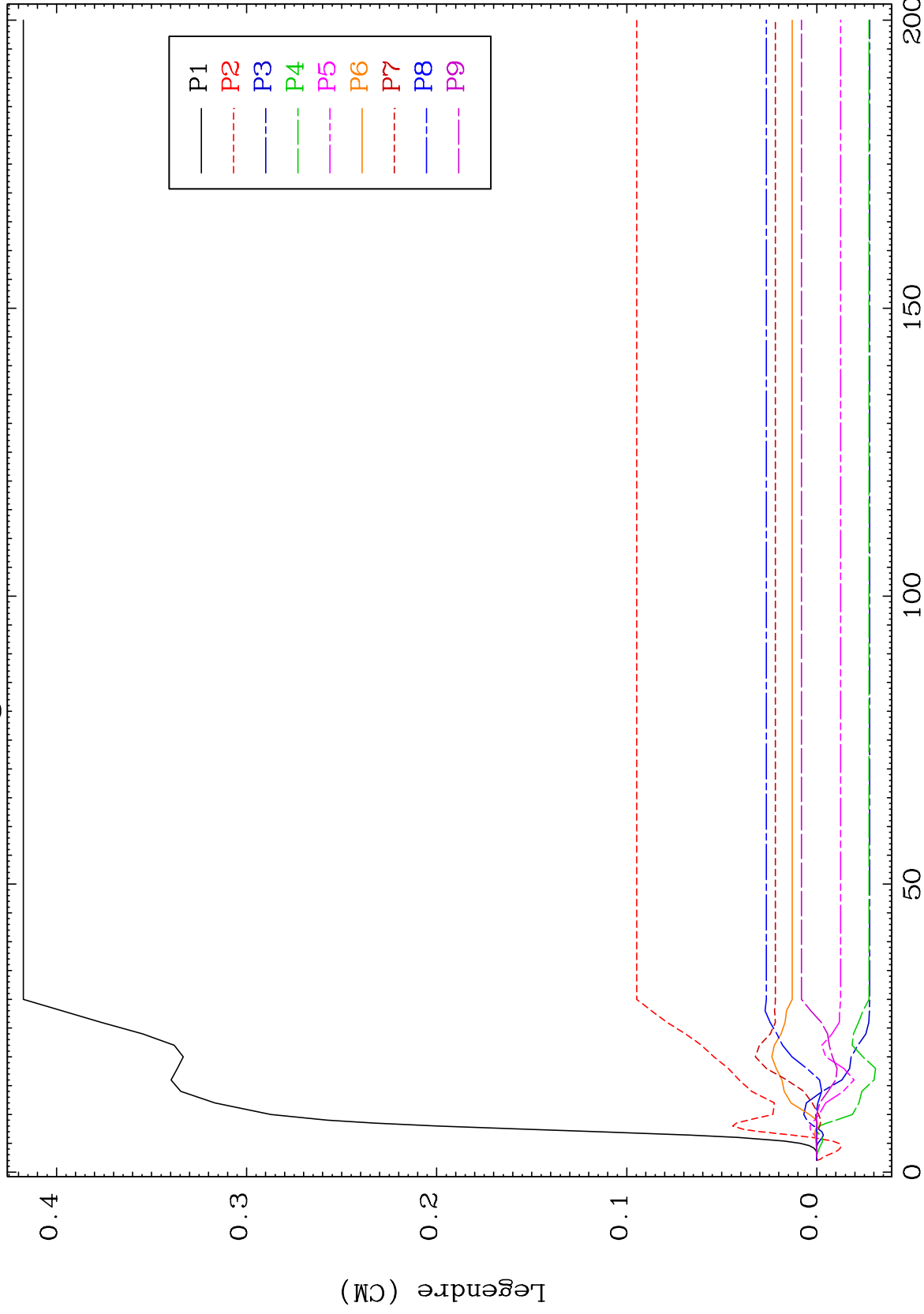
MT= 79 (n,n') Level  
Legendre Coefficients

53-I -129



132

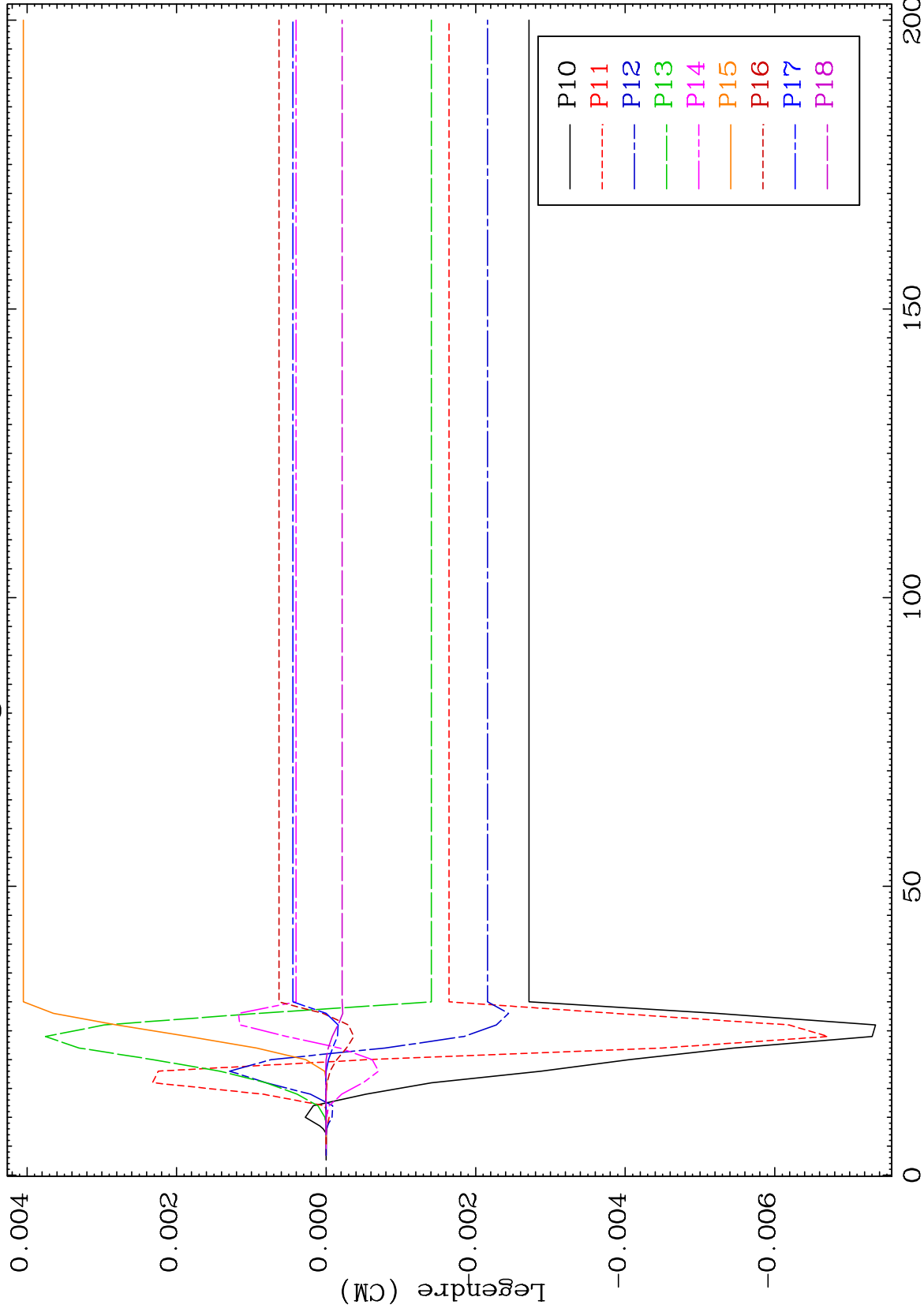
53-I -129



MAT 5331

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

53-I -129



134

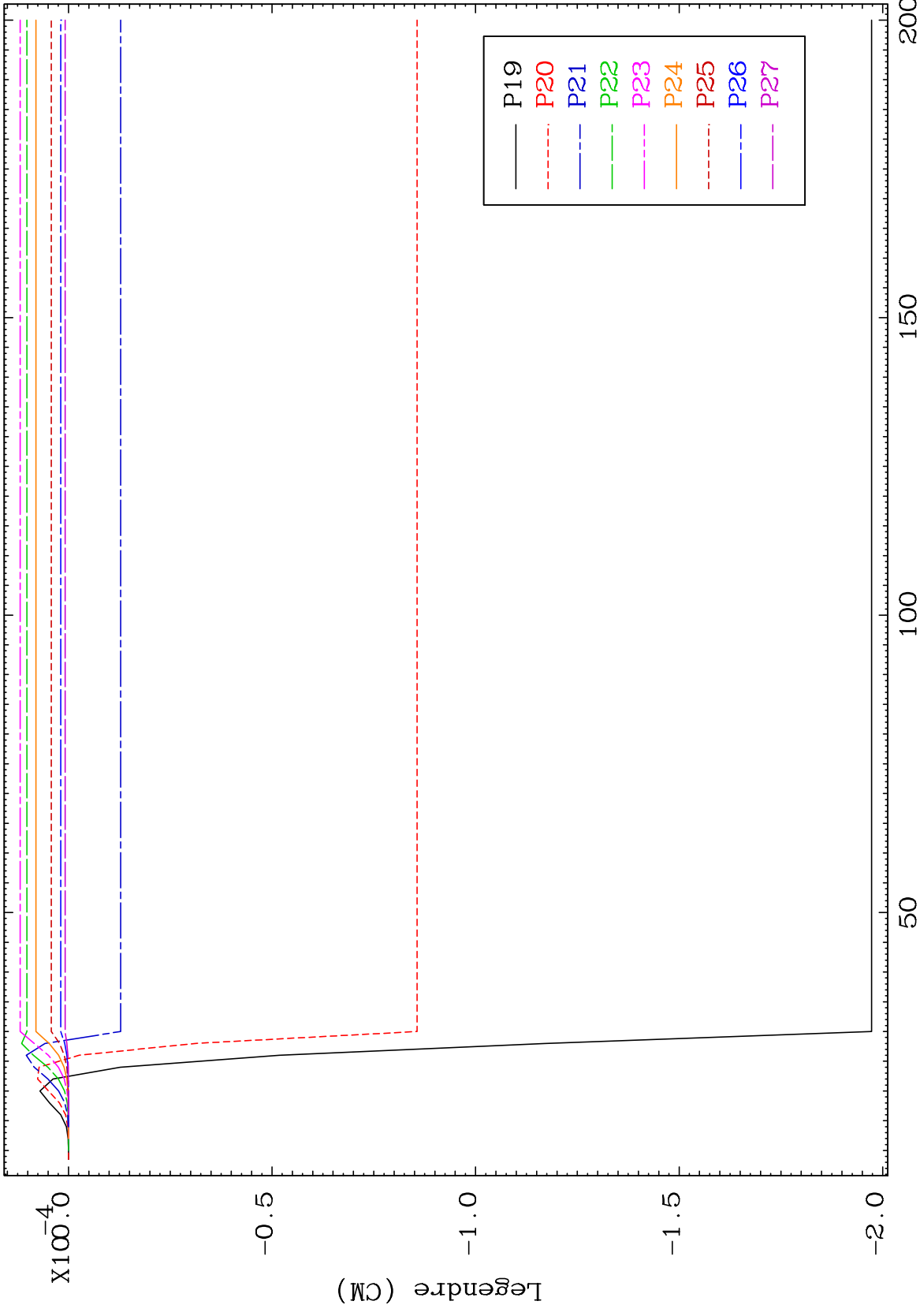
Incident Energy (MeV)

53-I -129

MAT 5331

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

53-I -129



135

Incident Energy (MeV)

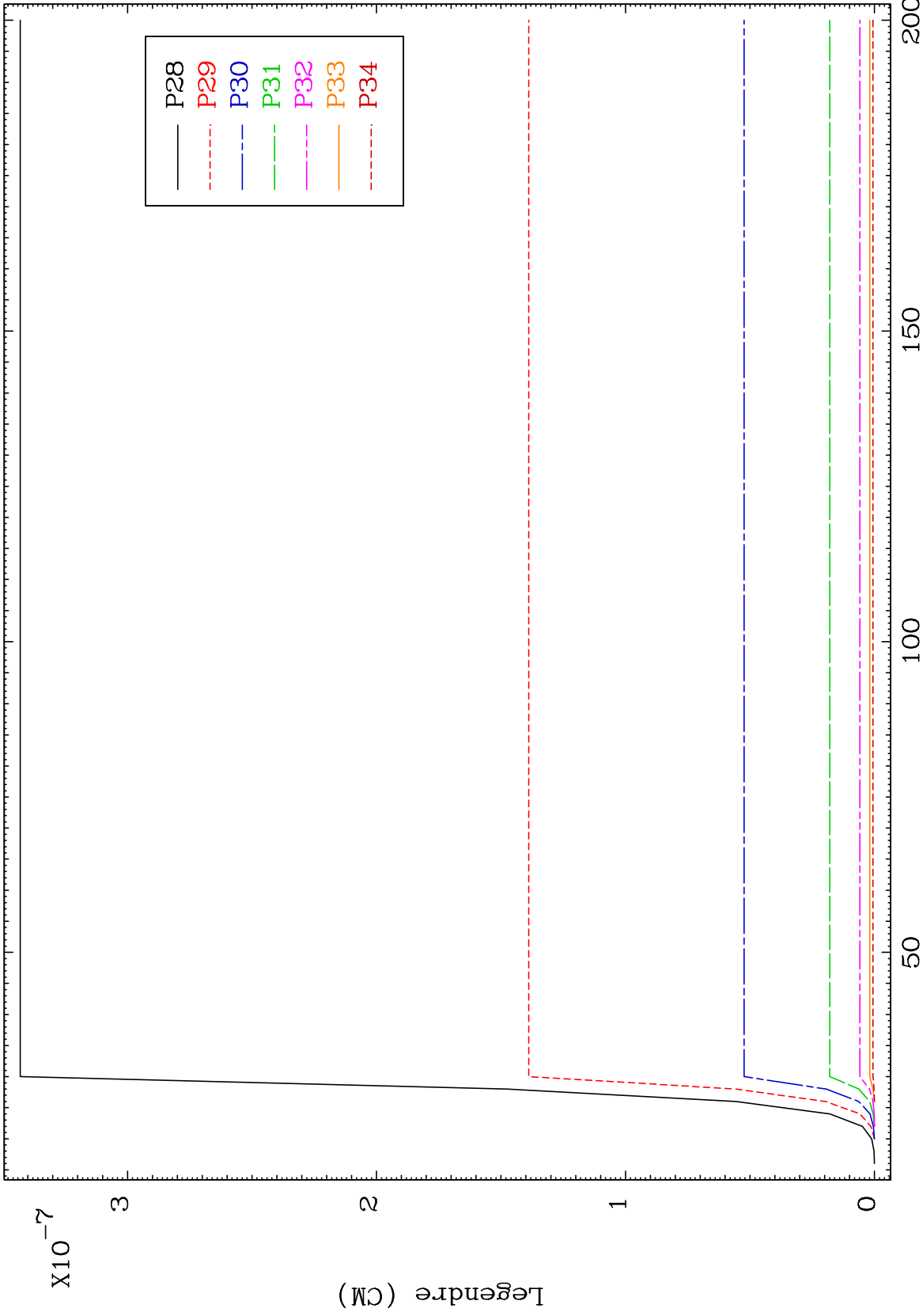
53-I -129



MAT 5331

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

53-I -129



136

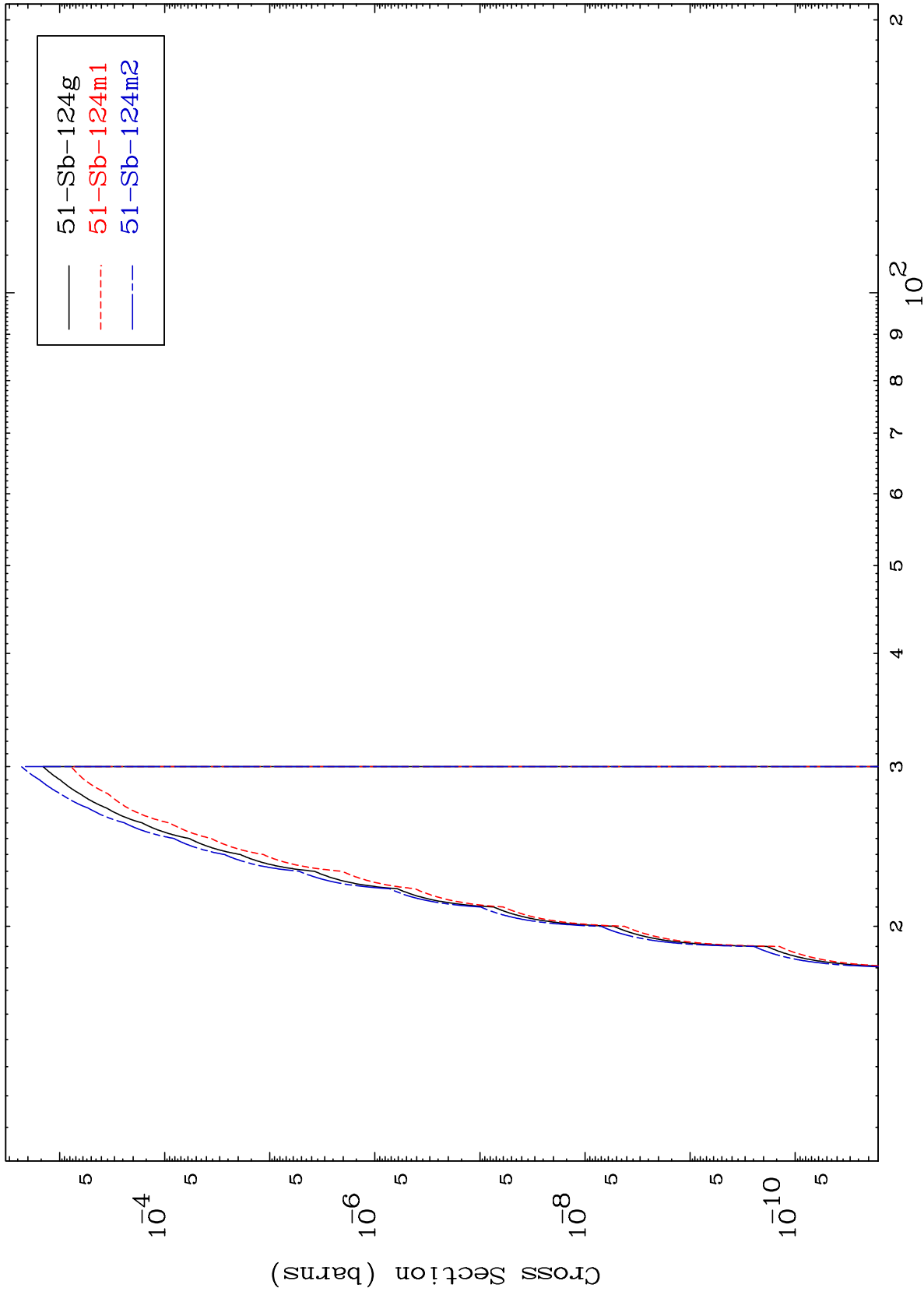
53-I -129

MAT 5331

(n,2n)  $\alpha$

53-I -129

Radionuclide Production Cross Section



137

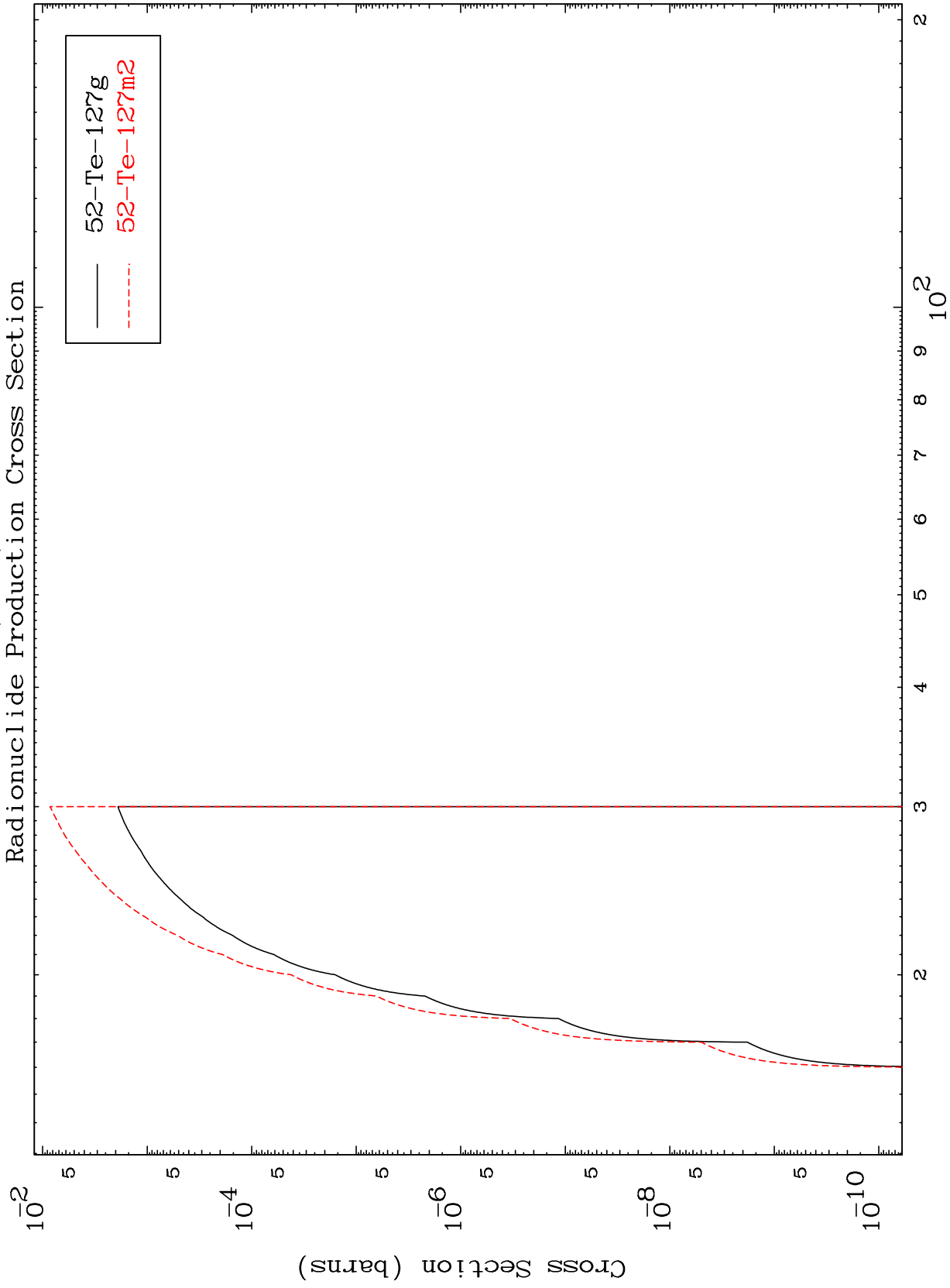
Incident Energy (MeV)

53-I -129

MAT 5331

(n,n') d

53-I -129

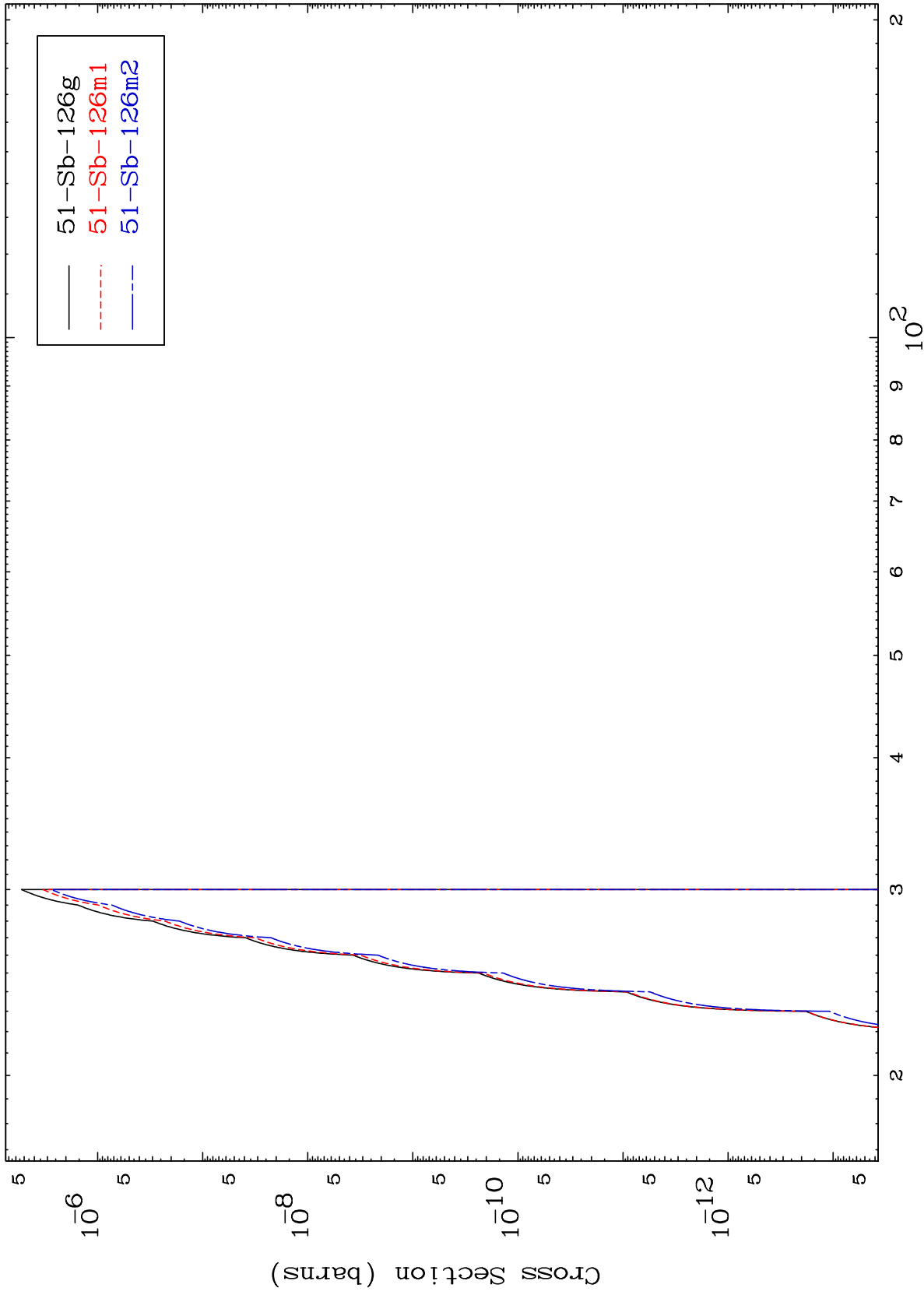


138

Incident Energy (MeV)

53-I -129

Radionuclide Production Cross Section

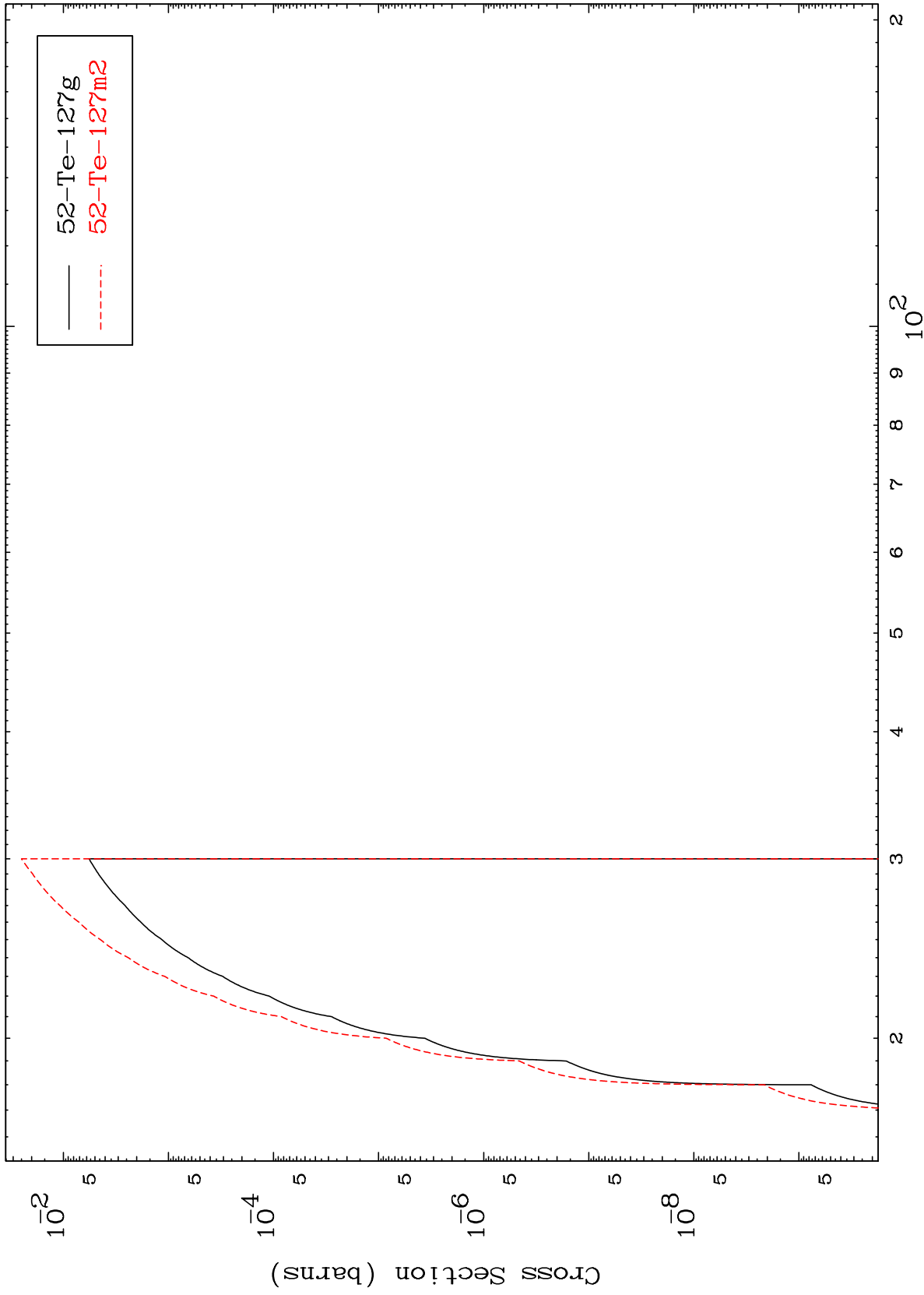


MAT 5331

(n,2n) p

53-I -129

Radionuclide Production Cross Section



140

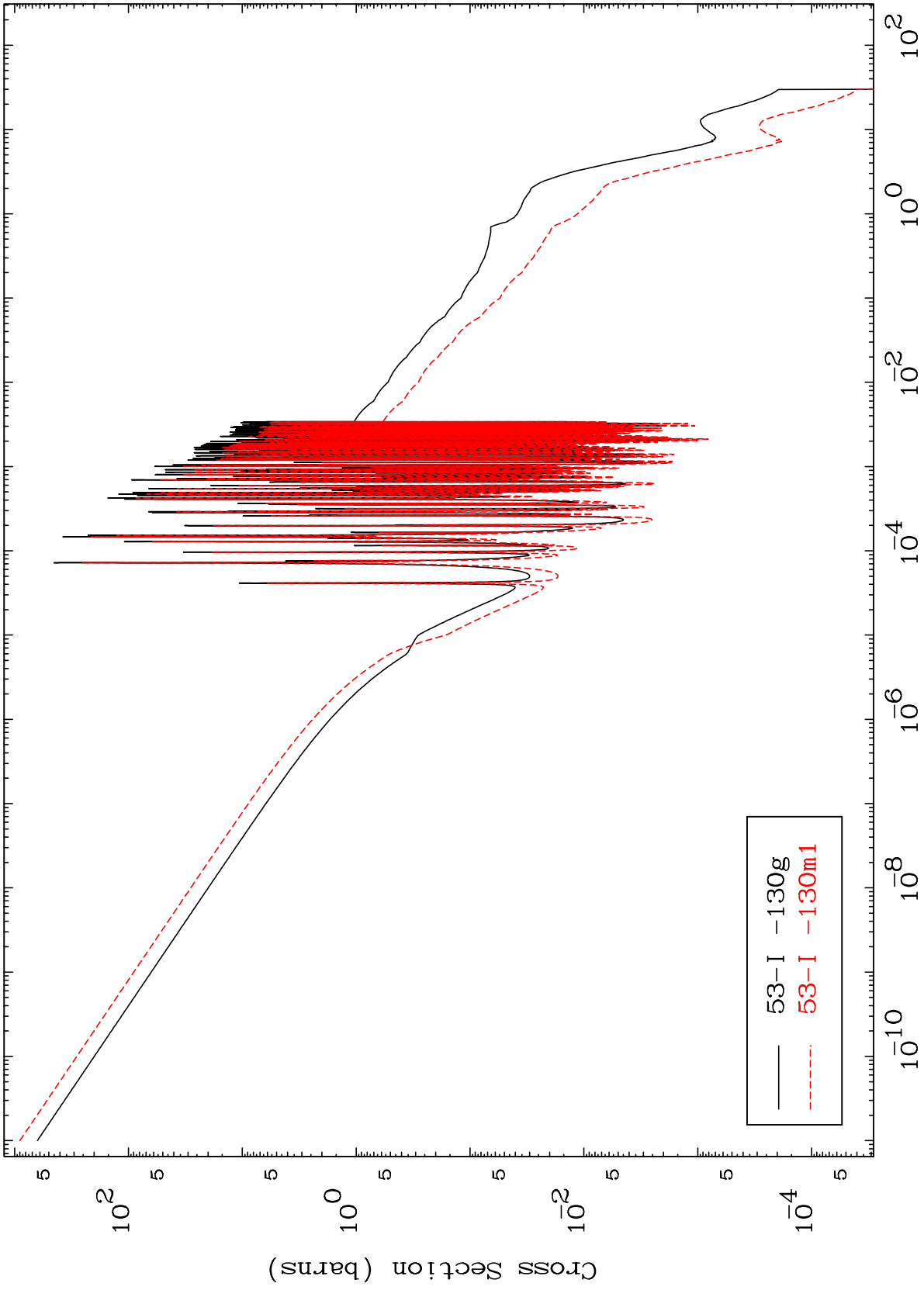
Incident Energy (MeV)

53-I -129

MAT 5331

53-I -129

(n,γ)  
Radionuclide Production Cross Section

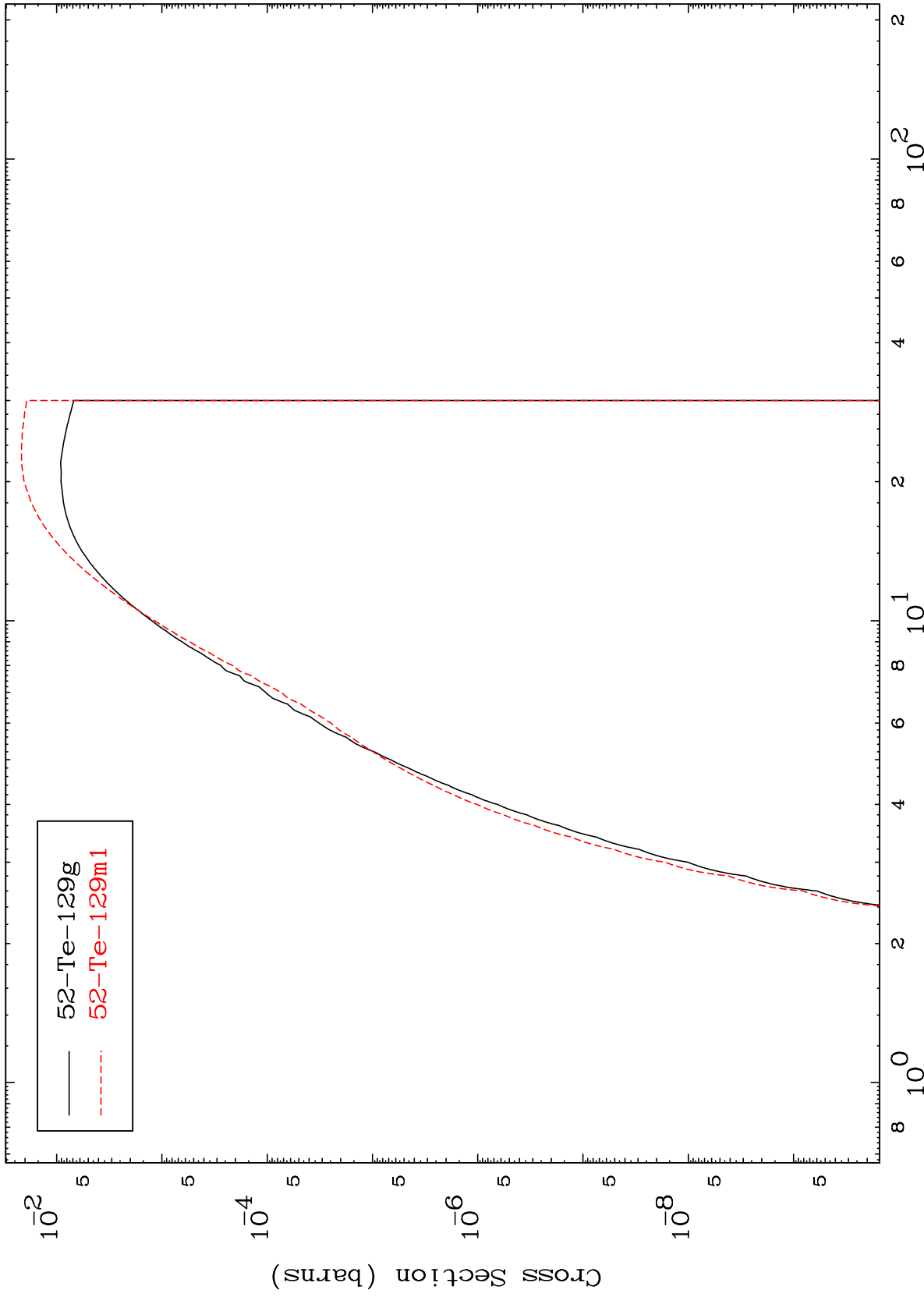


141

MAT 5331

53-I -129

(n,p)  
Radionuclide Production Cross Section



142

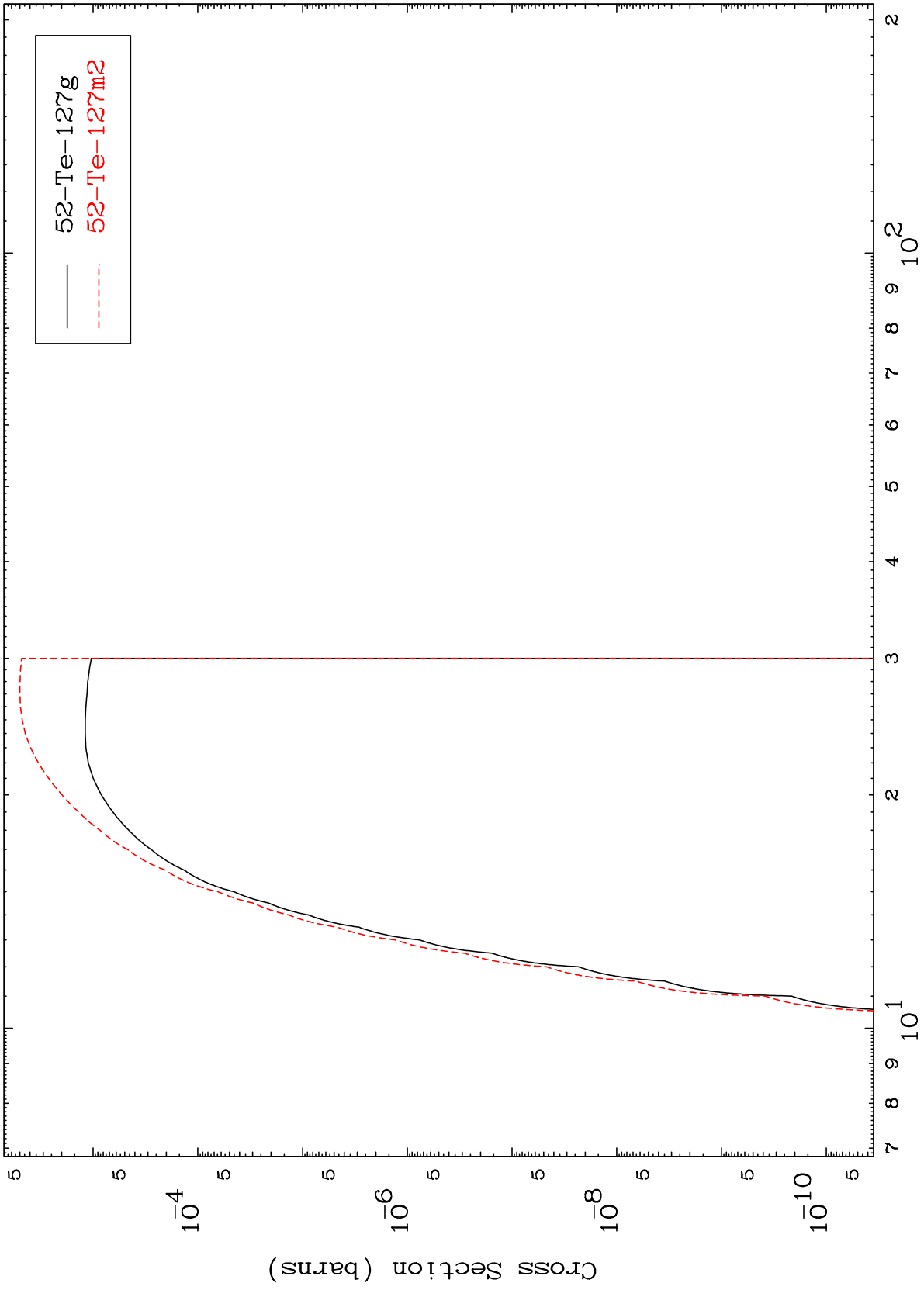
Incident Energy (MeV)

53-I -129

MAT 5331

53-I -129

(n,t)  
Radionuclide Production Cross Section



143

Incident Energy (MeV)

53-I -129

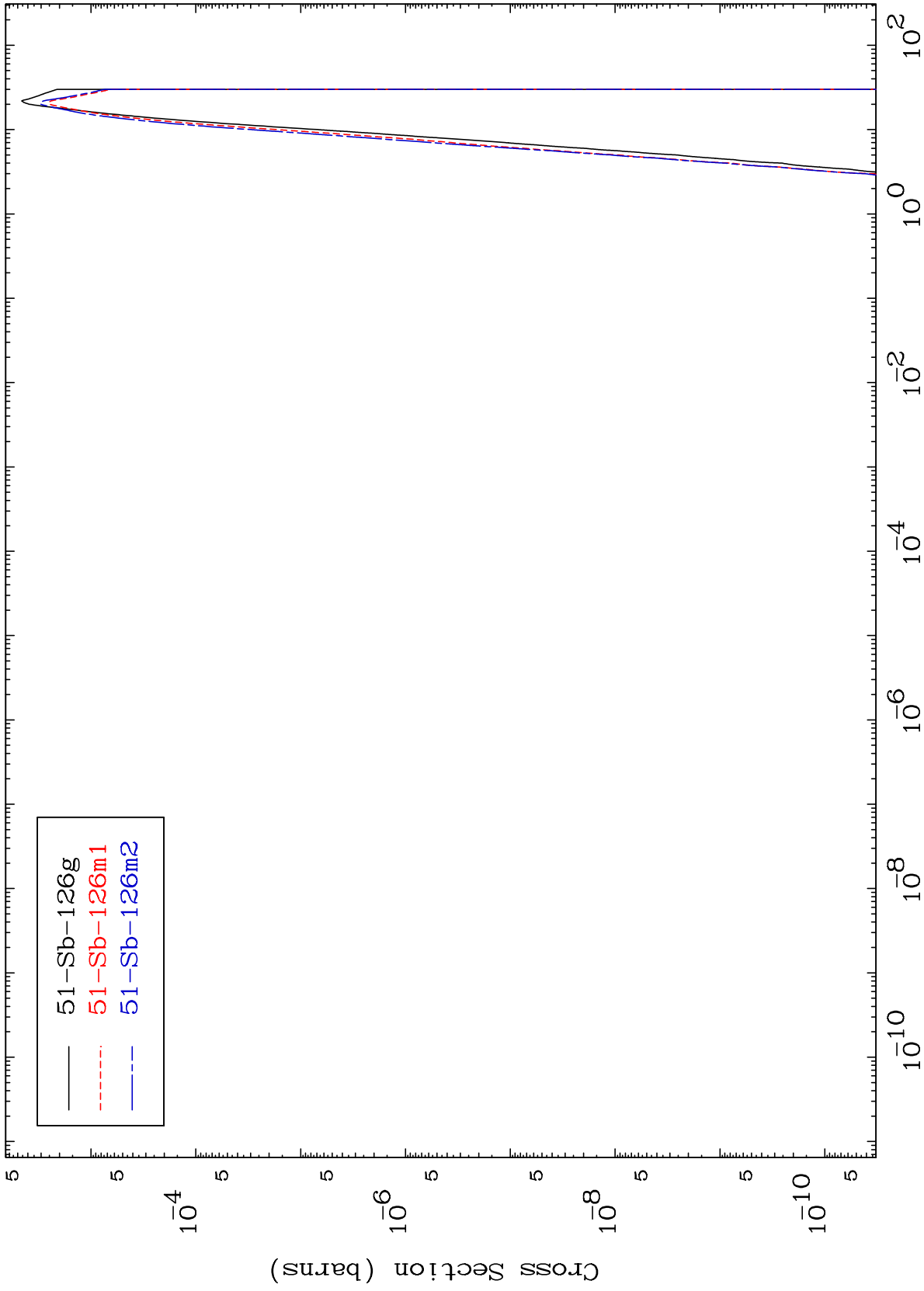


MAT 5331

(n,α)

53-I -129

Radionuclide Production Cross Section



144

Incident Energy (MeV)

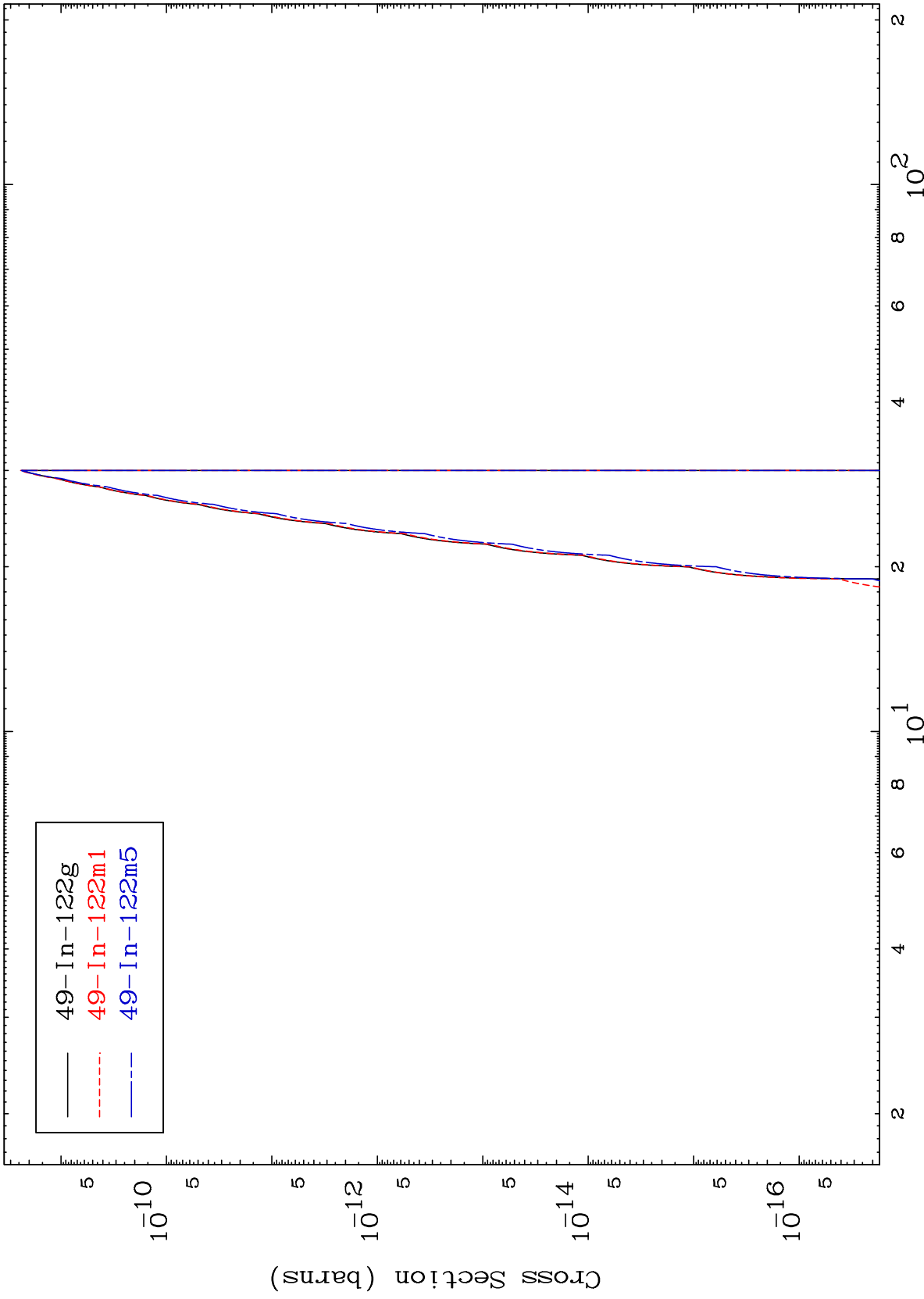
53-I -129

MAT 5331

(n,2α)

53-I -129

Radionuclide Production Cross Section



49-I n-122g  
49-I n-122m1  
49-I n-122m5

145

Incident Energy (MeV)

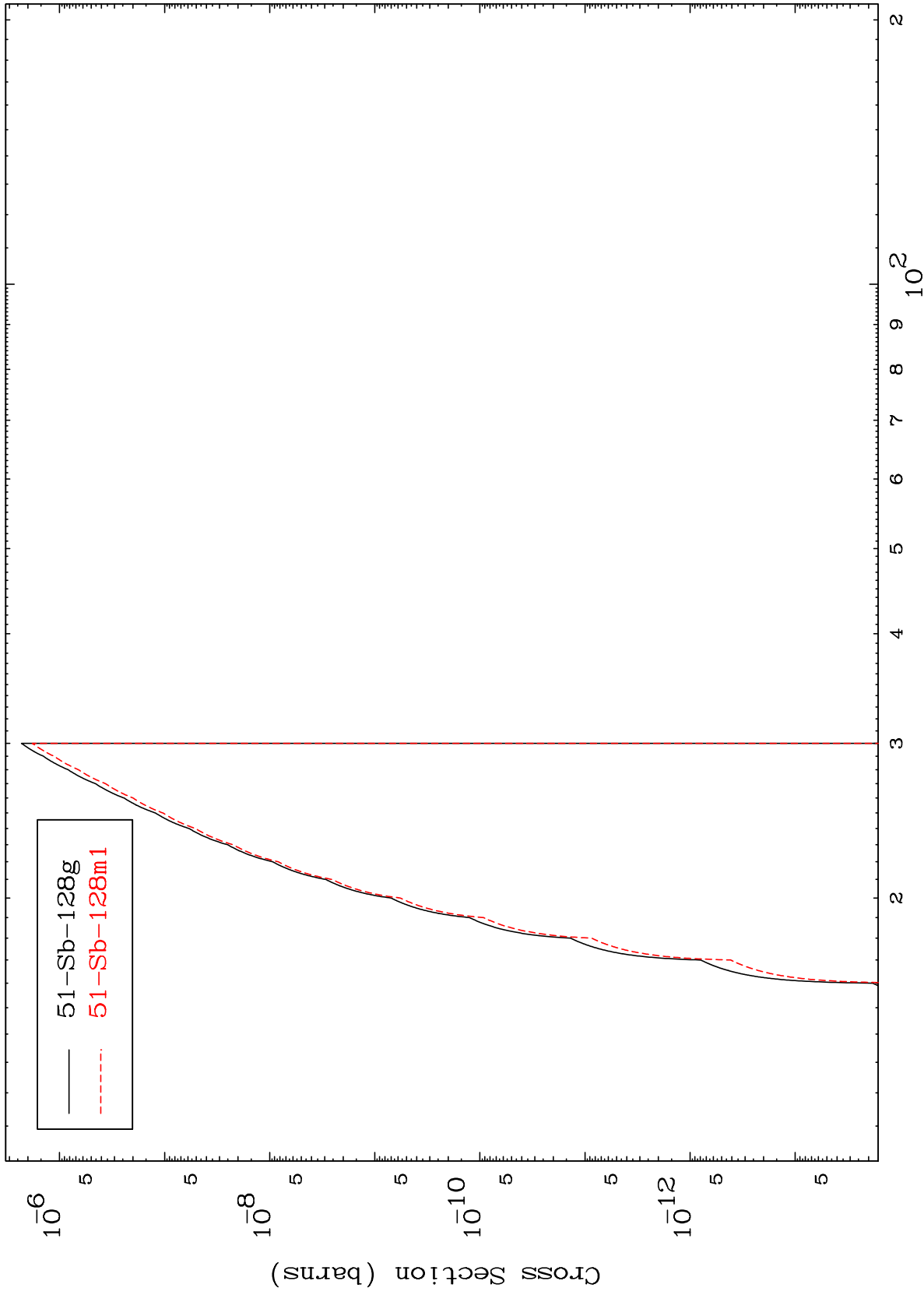
53-I -129

MAT 5331

(n,2p)

53-I -129

Radionuclide Production Cross Section



146

Incident Energy (MeV)

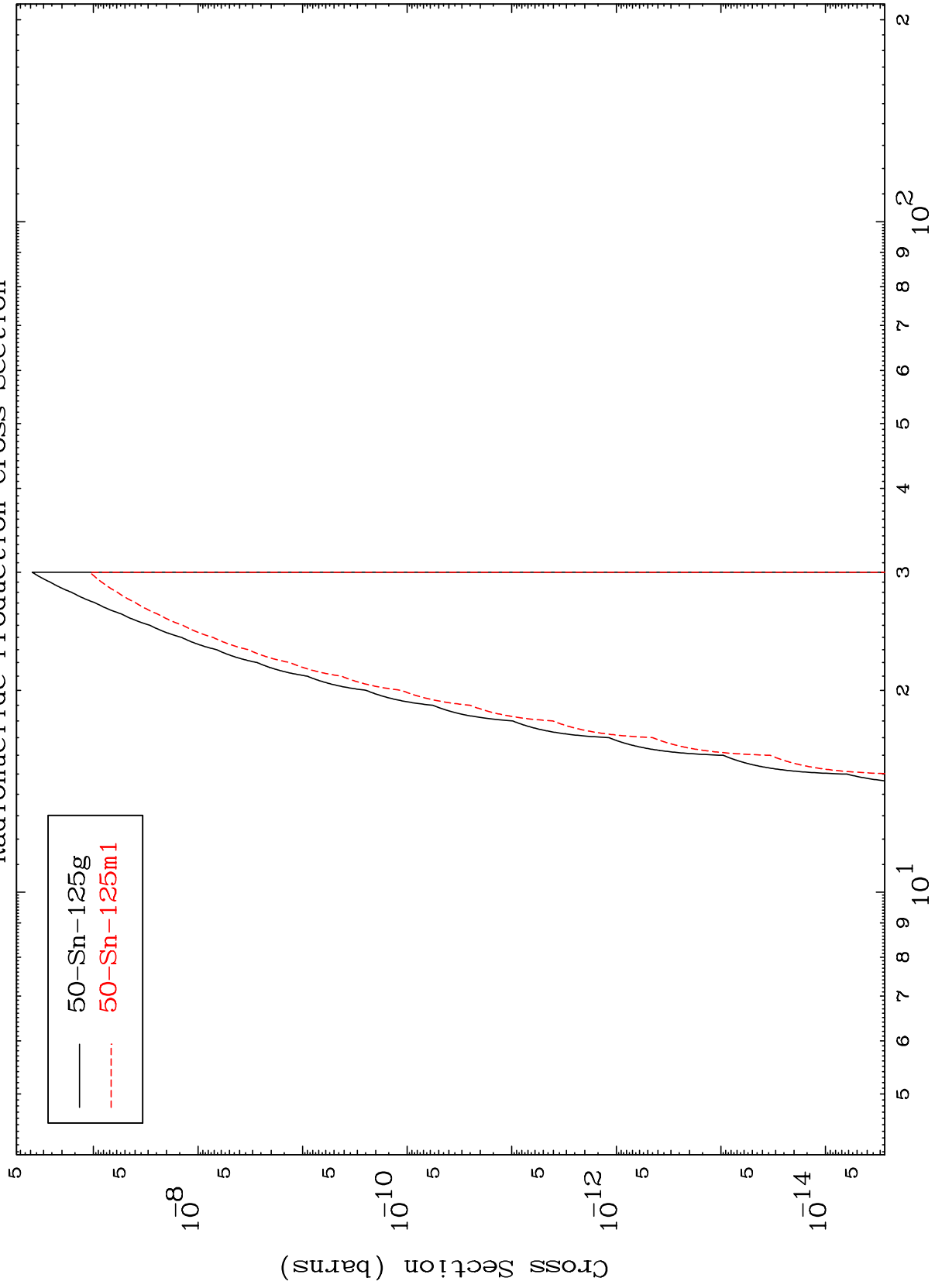
53-I -129

MAT 5331

(n,p)  $\alpha$

53-I -129

Radionuclide Production Cross Section



147

Incident Energy (MeV)

53-I -129

Radionuclide Production Cross Section

