

Program EVALPLOT  
(Version 2018-1)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550

U.S.A.

Tele: 925-443-1911

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

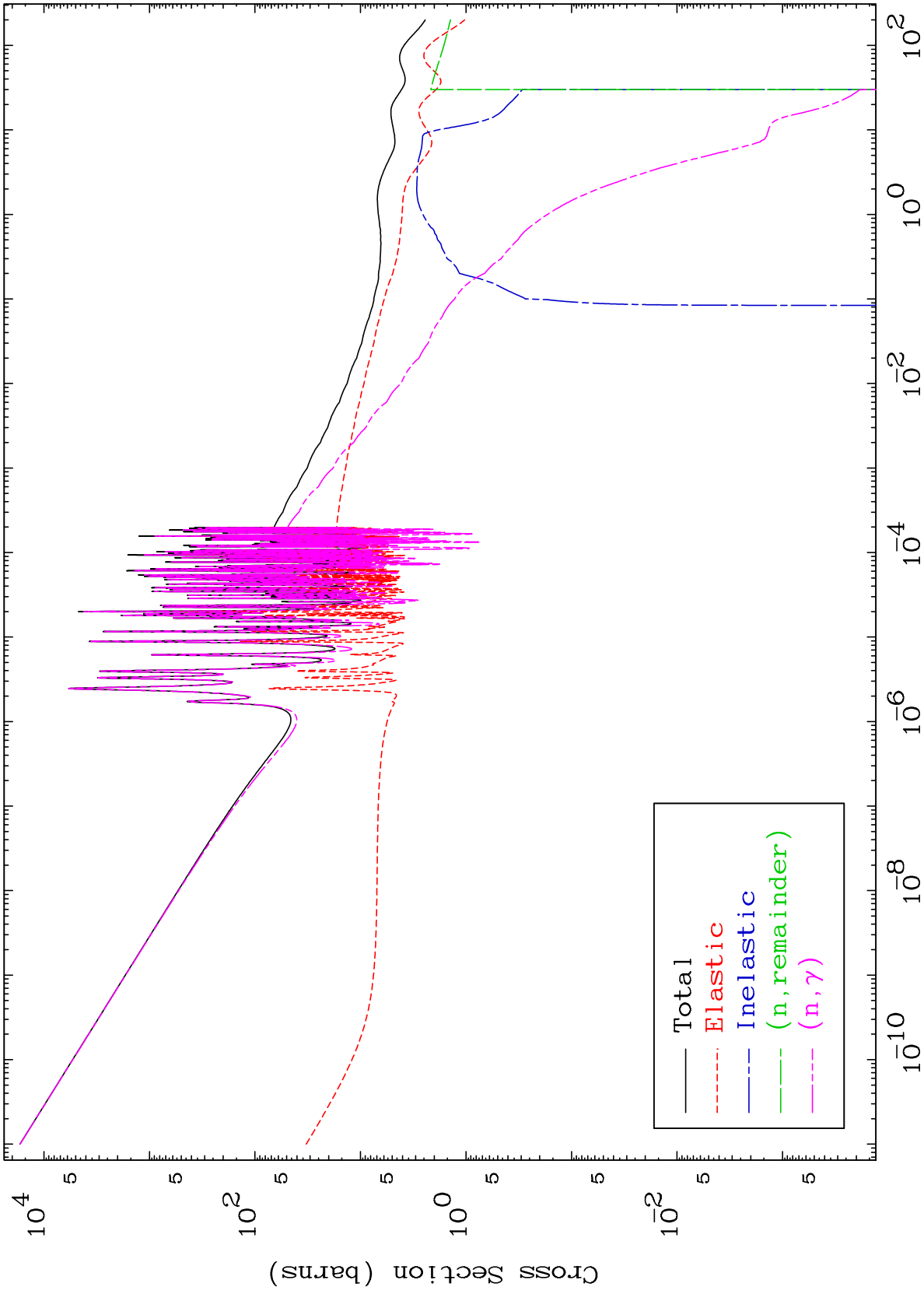
Press Mouse Button to Start

MAT 6331

Major

293 Kelvin Cross Sections

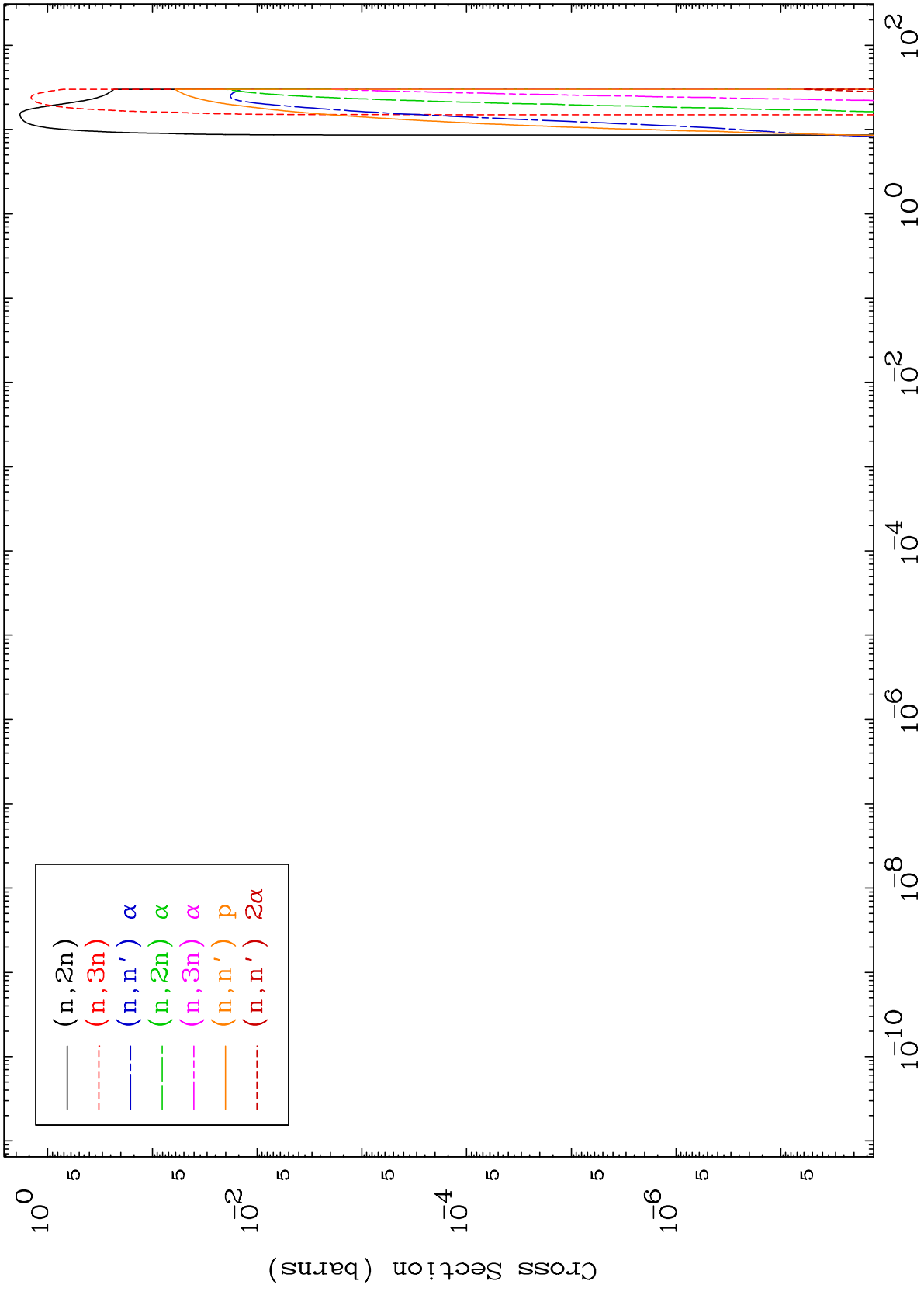
63-Eu-153



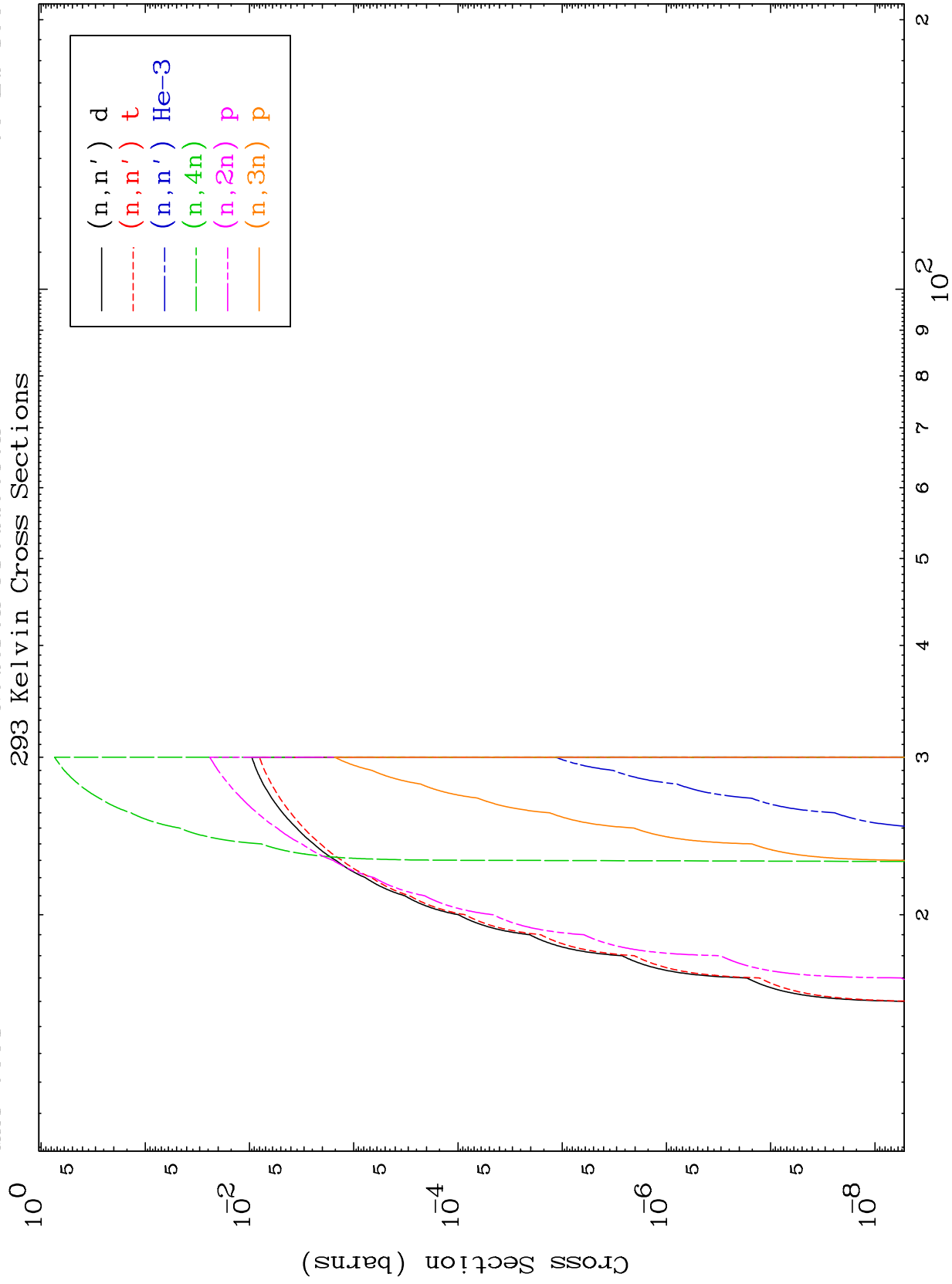
MAT 6331

Neutron Production  
293 Kelvin Cross Sections

63-Eu-153



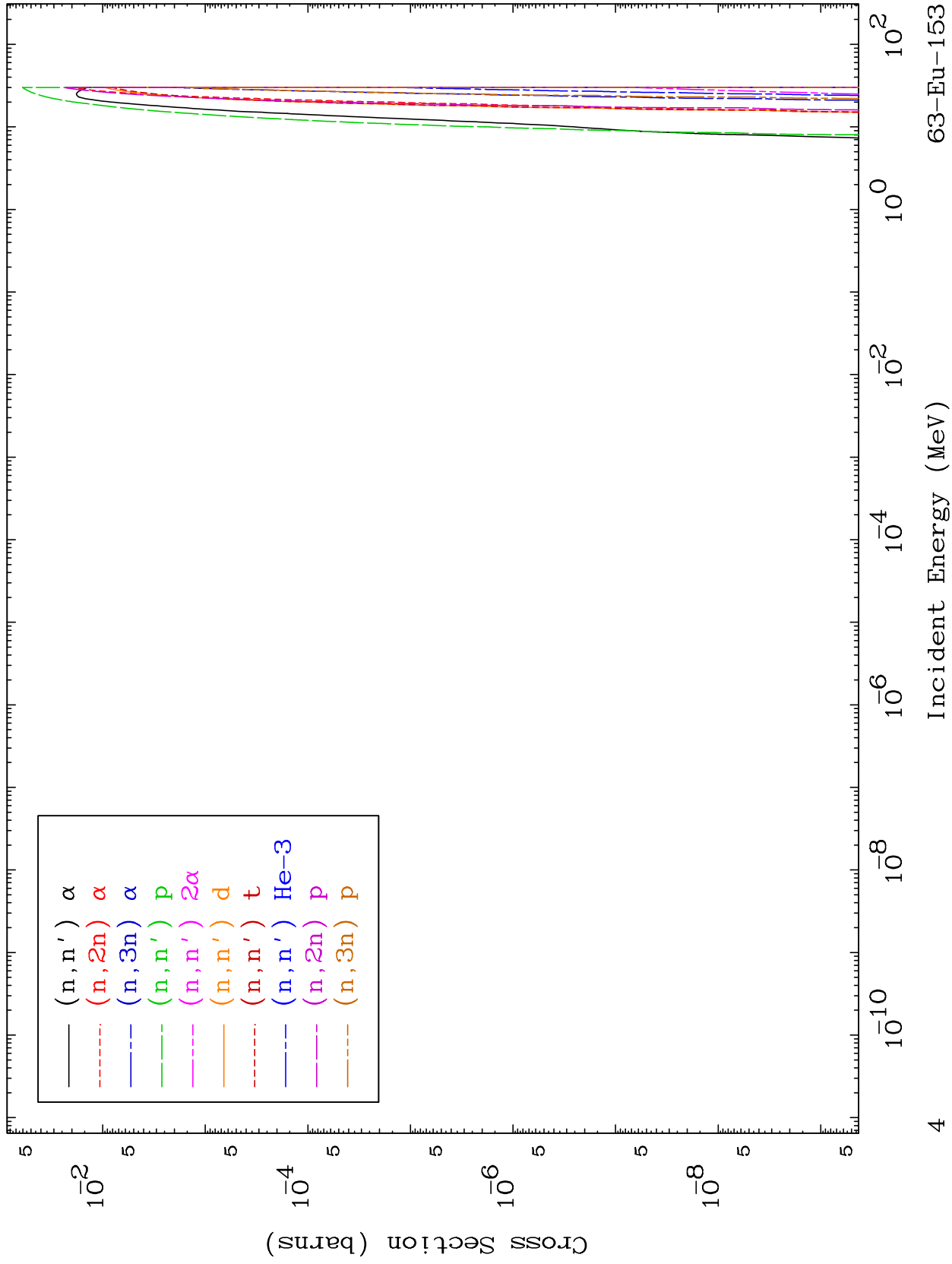
63-Eu-153



MAT 6331

Charged Particle  
293 Kelvin Cross Sections

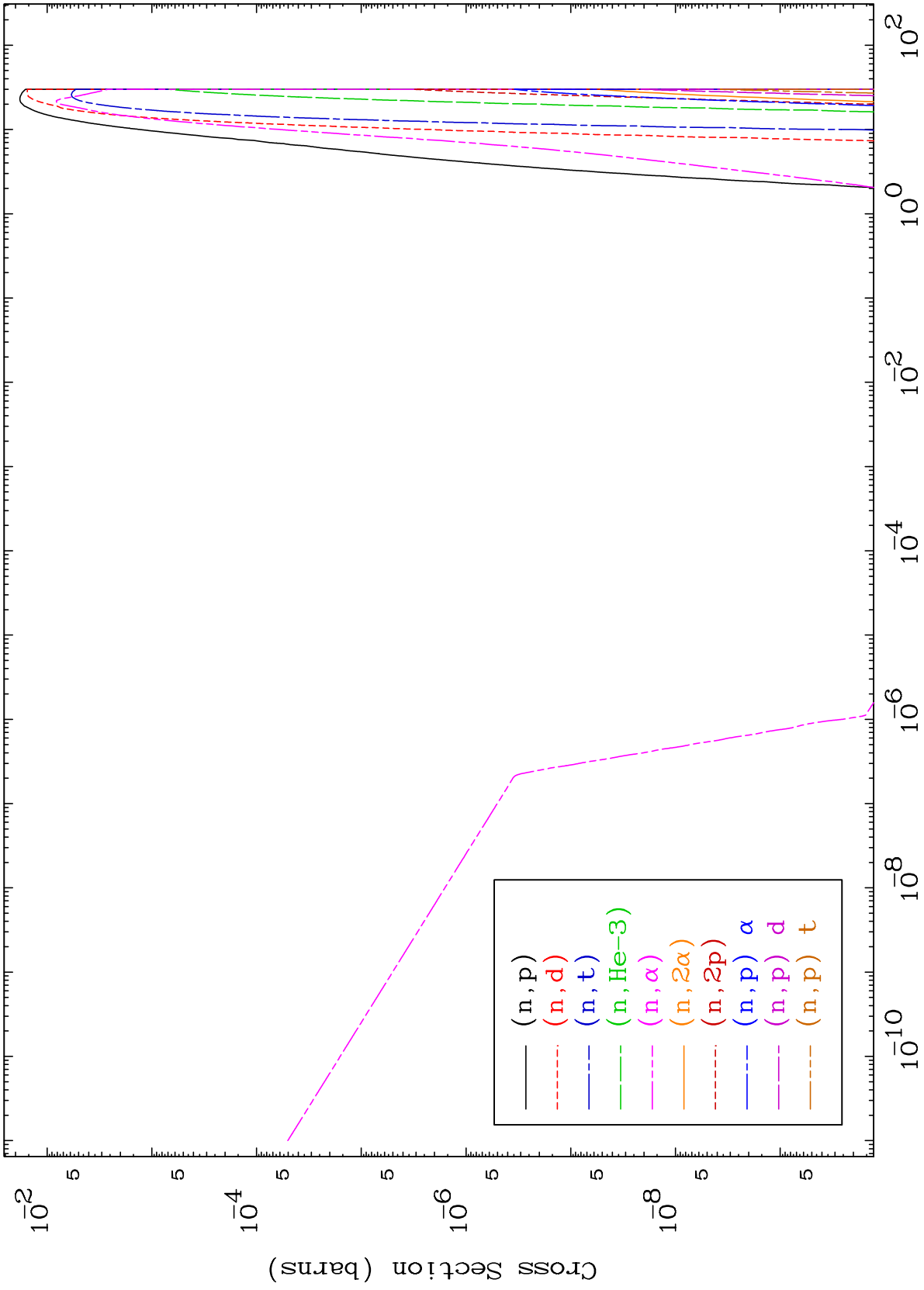
63-Eu-153



MAT 6331

Charged Particle  
293 Kelvin Cross Sections

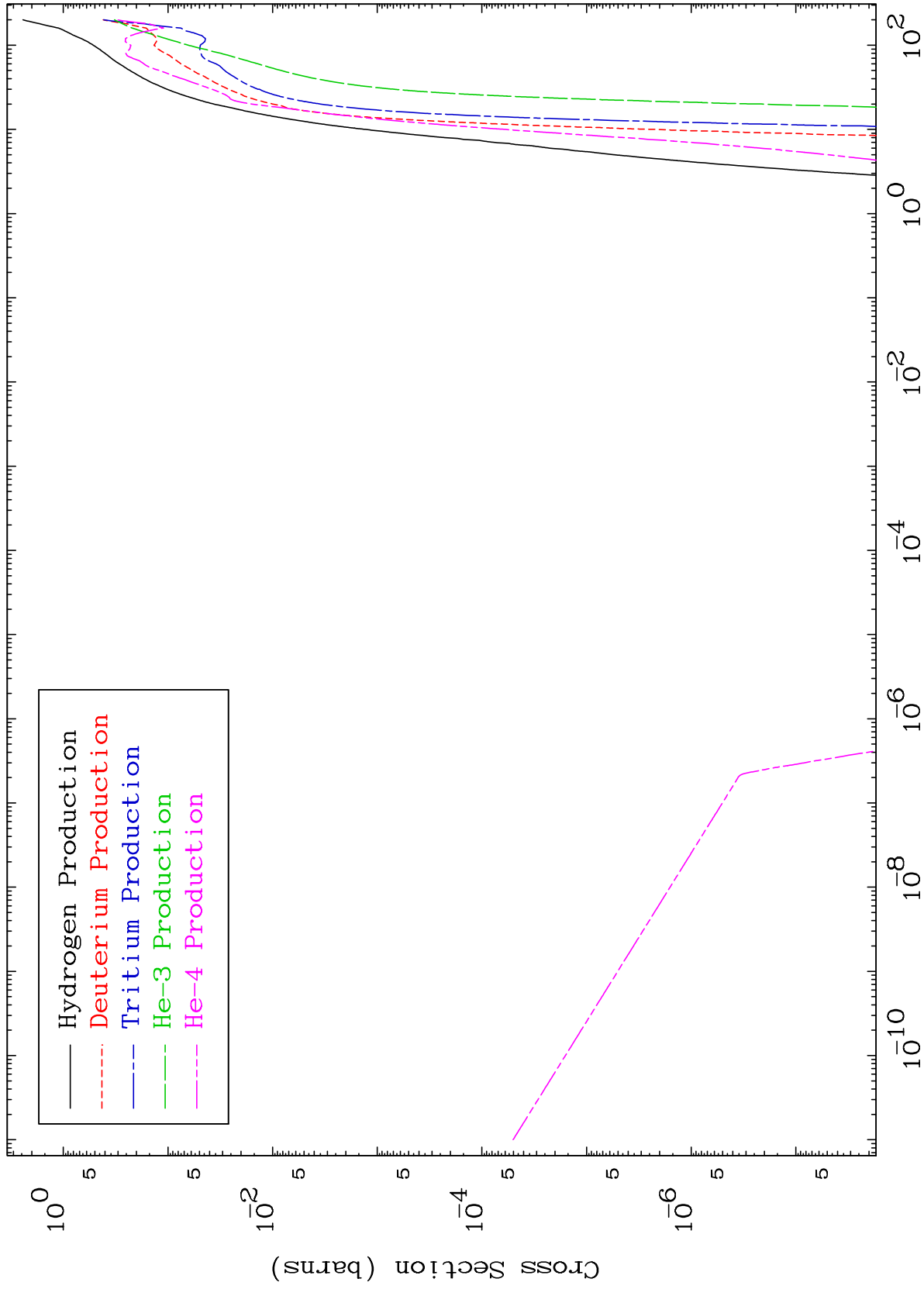
63-Eu-153



MAT 6331

Particle Production  
293 Kelvin Cross Sections

63-Eu-153



6

Incident Energy (MeV)

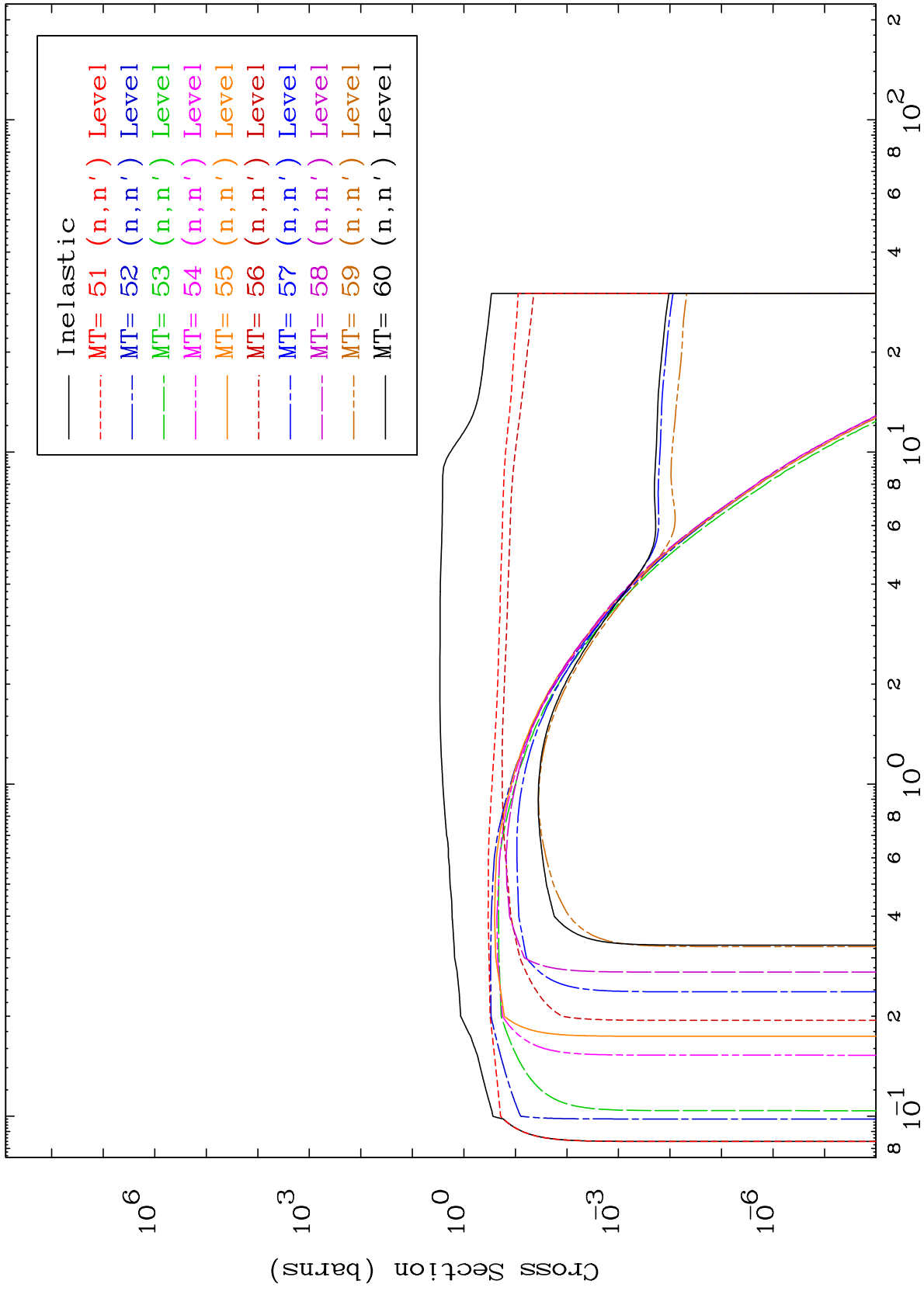
63-Eu-153

MAT 6331

(n,n') Level

63-Eu-153

293 Kelvin Cross Sections



7

Incident Energy (MeV)

63-Eu-153

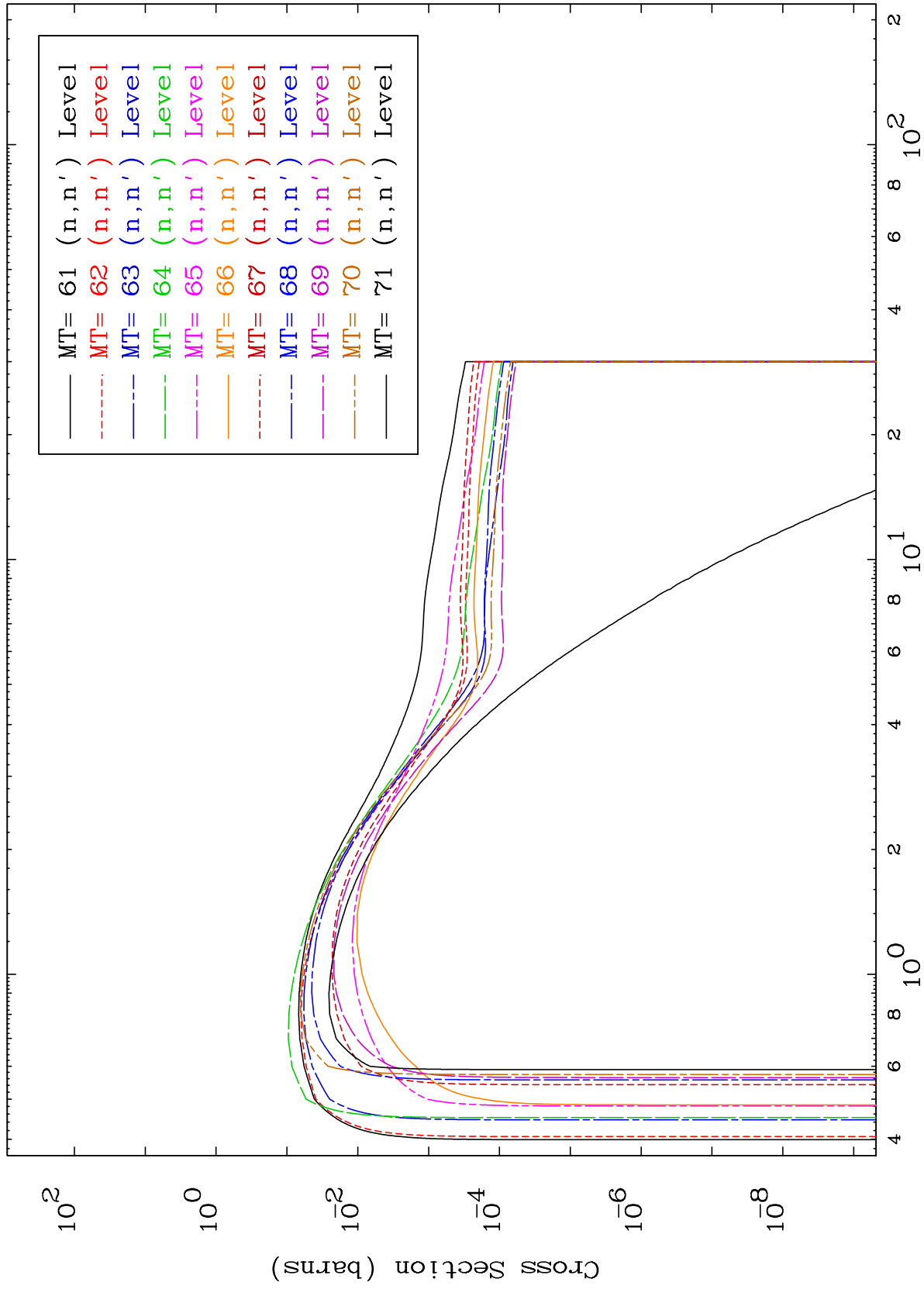


MAT 6331

(n,n') Level

63-Eu-153

293 Kelvin Cross Sections



8

Incident Energy (MeV)

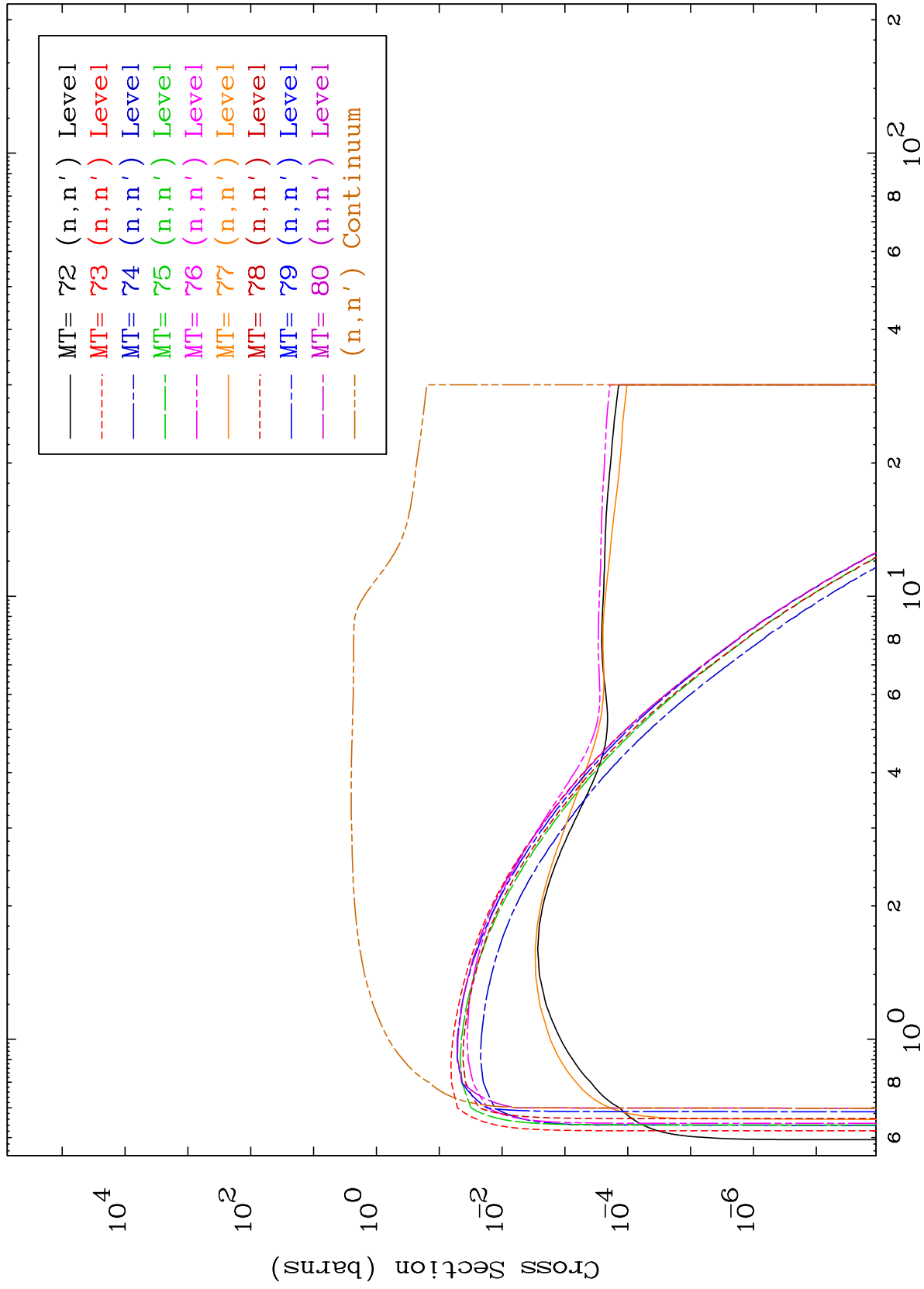
63-Eu-153

MAT 6331

(n,n') Level

63-Eu-153

293 Kelvin Cross Sections



9

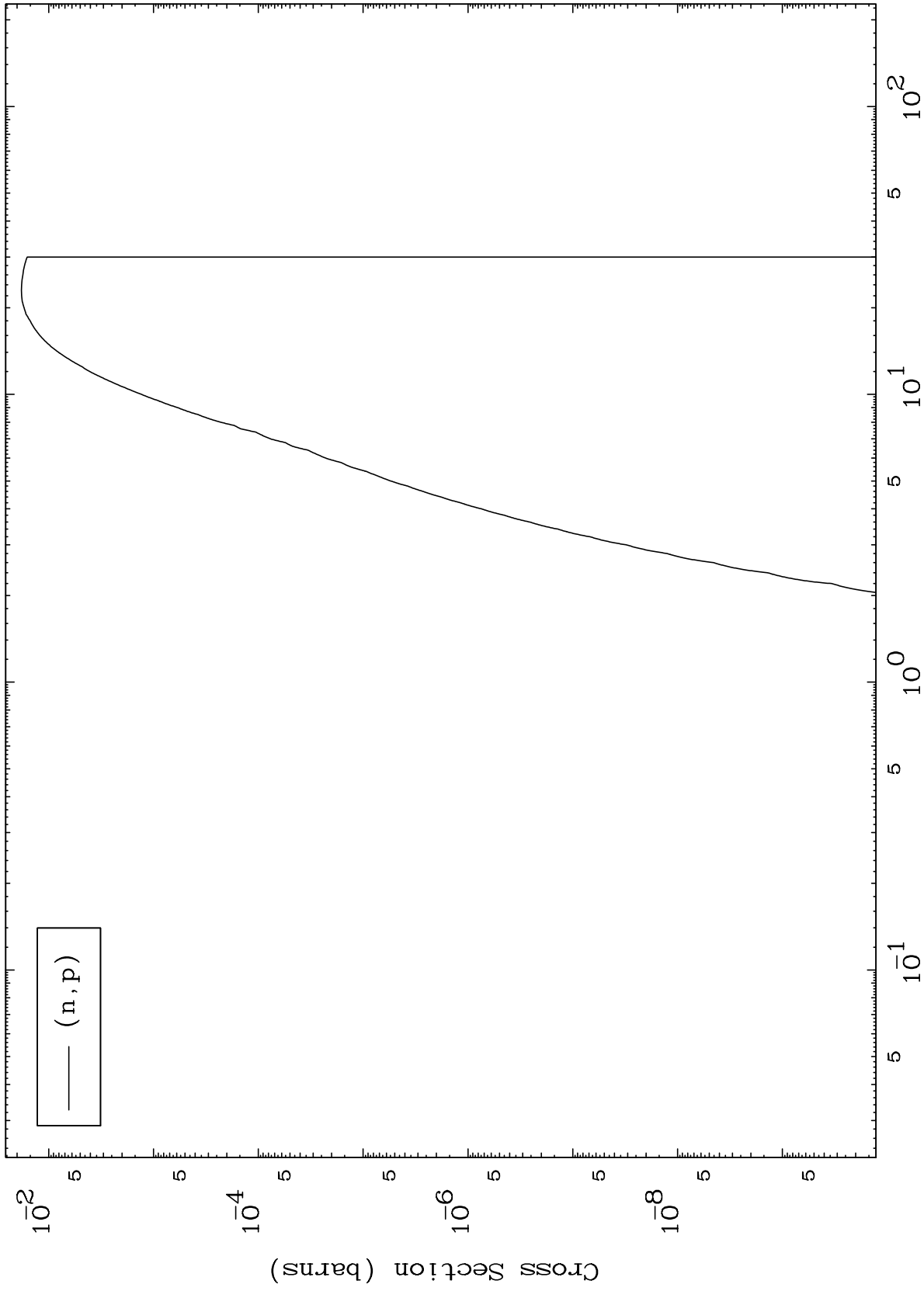
Incident Energy (MeV)

63-Eu-153

MAT 6331

(n,p) Levels  
293 Kelvin Cross Sections

63-Eu-153



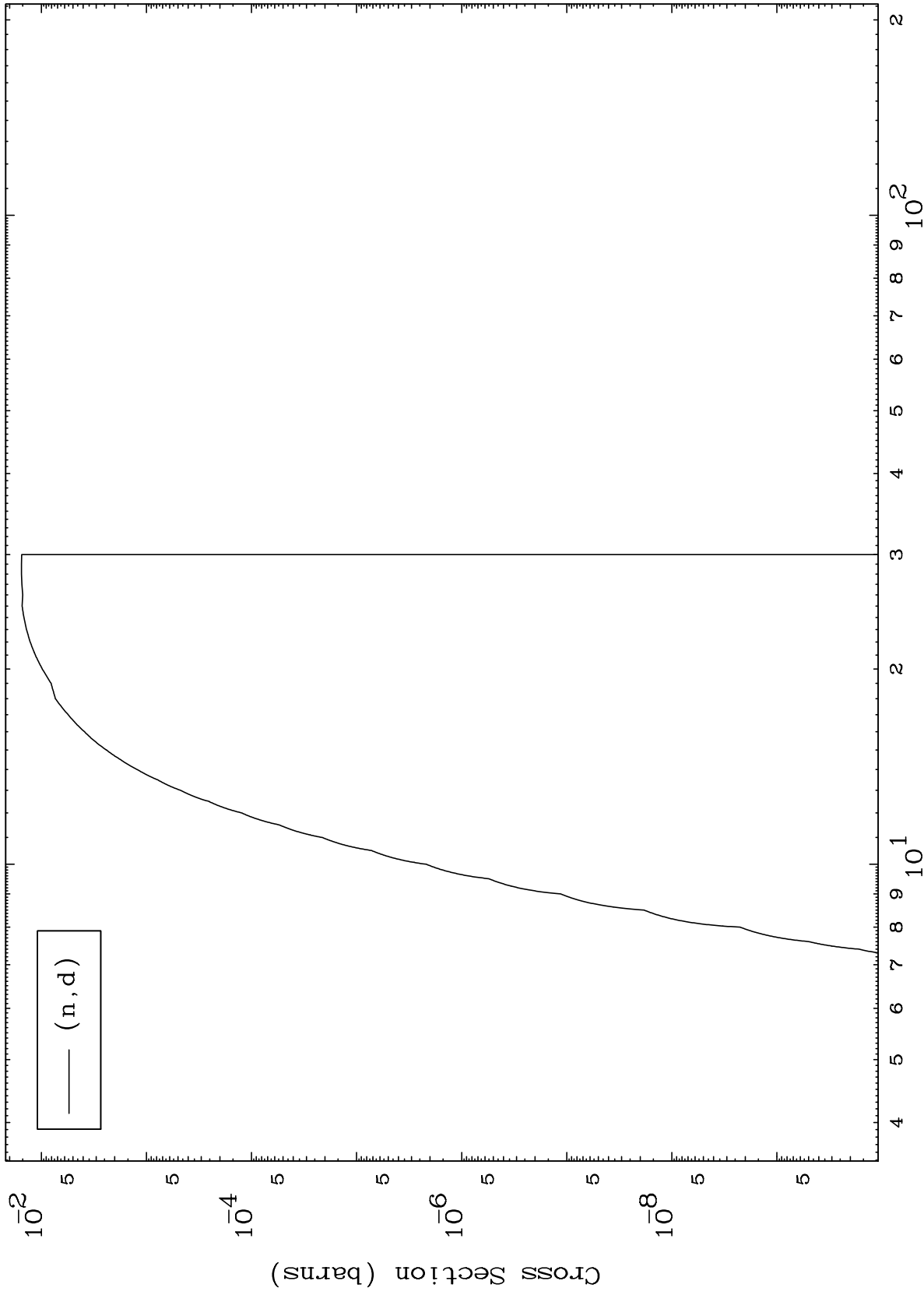
10

63-Eu-153

MAT 6331

(n,d) Levels  
293 Kelvin Cross Sections

63-Eu-153



11

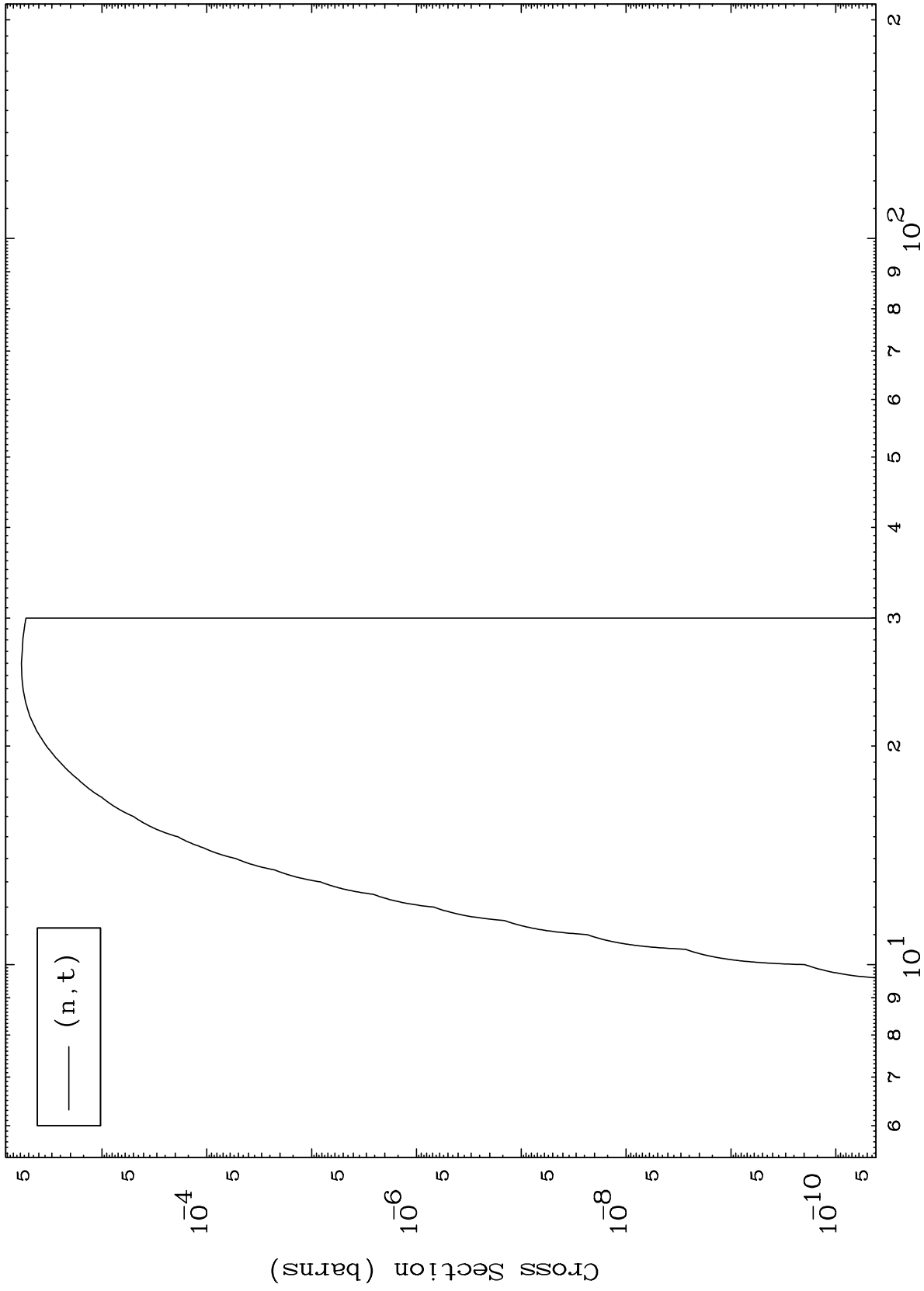
Incident Energy (MeV)

63-Eu-153

MAT 6331

(n,t) Levels  
293 Kelvin Cross Sections

63-Eu-153



12

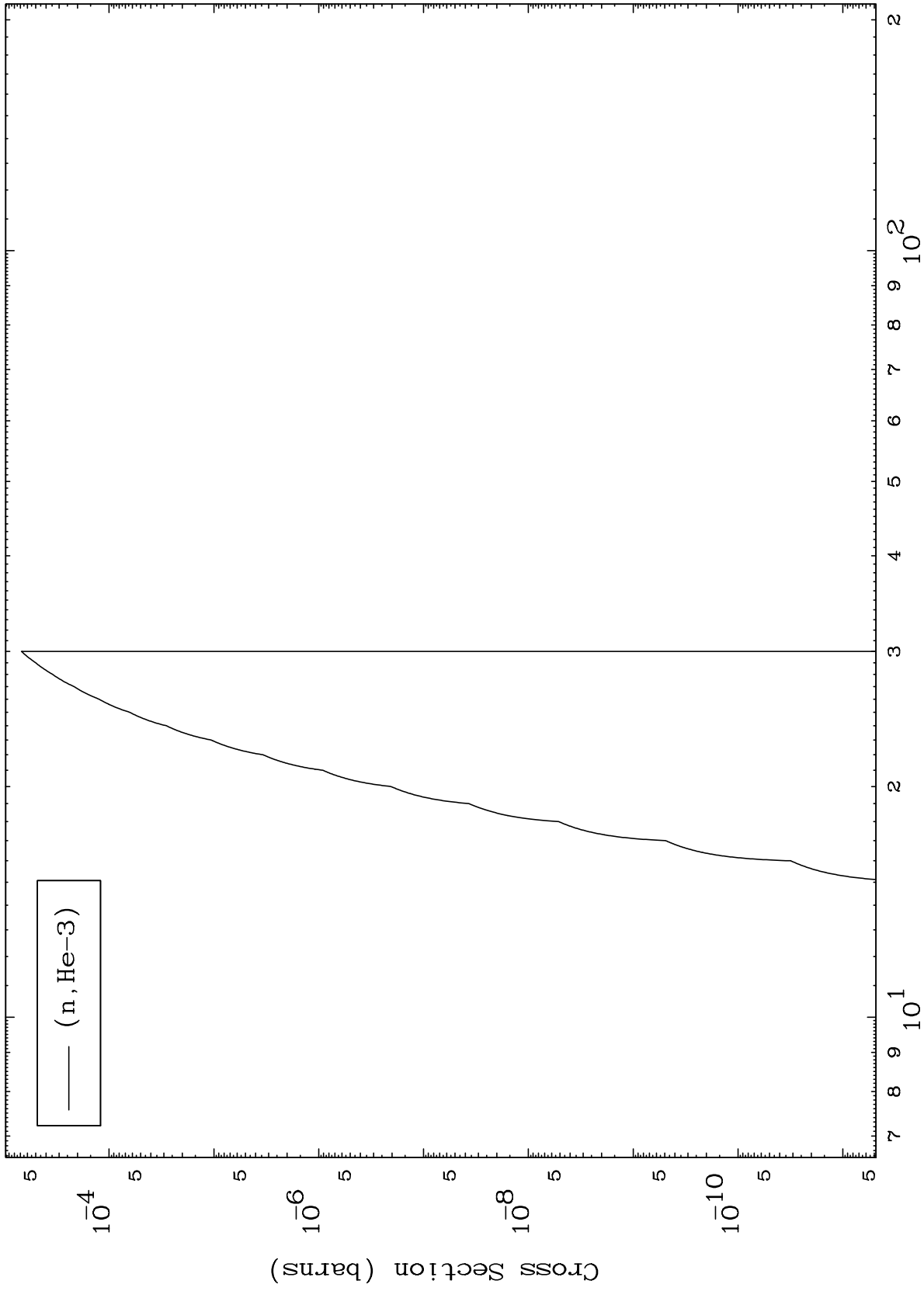
Incident Energy (MeV)

63-Eu-153

MAT 6331

(n,He3) Levels  
293 Kelvin Cross Sections

63-Eu-153



13

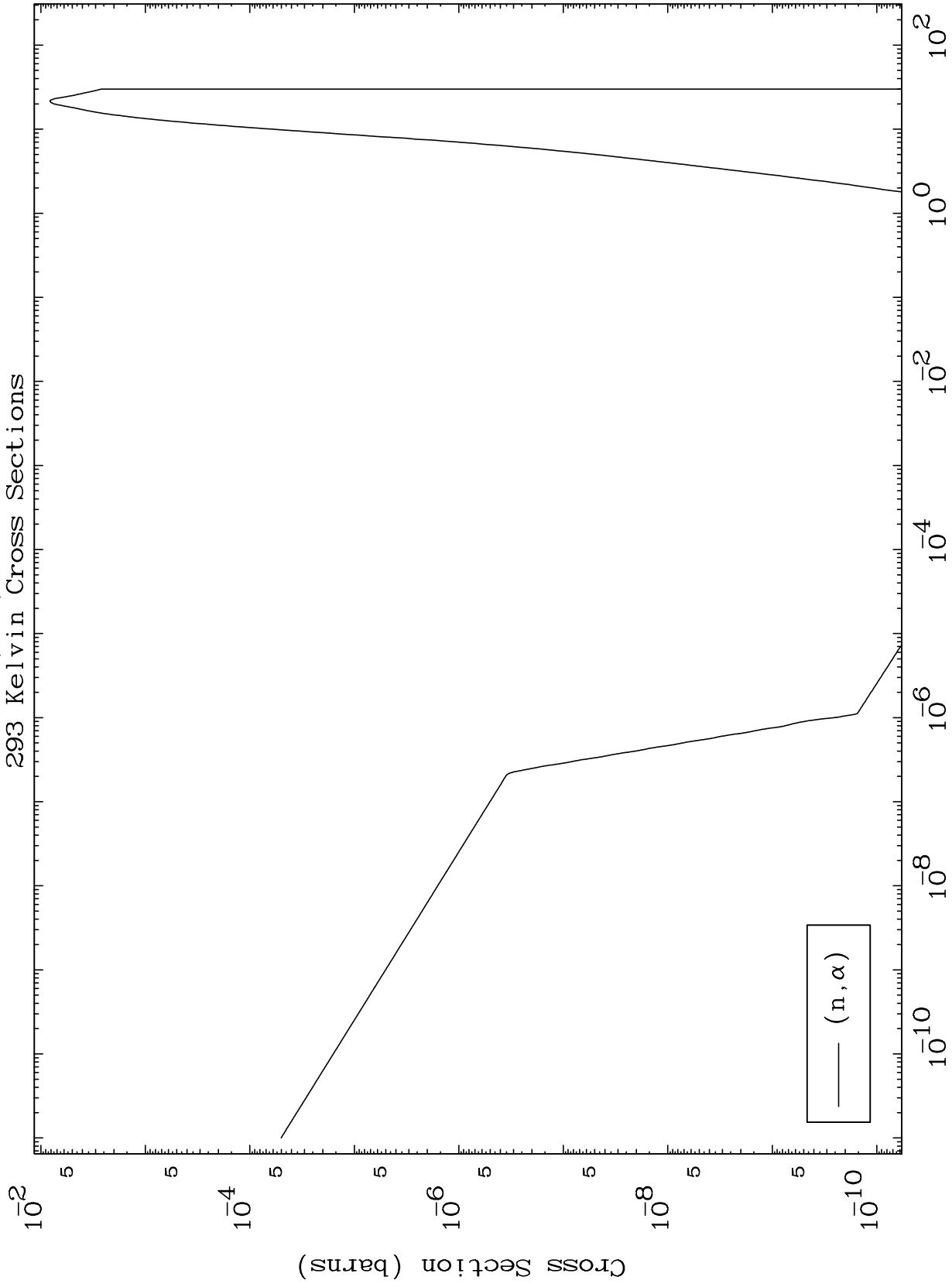
63-Eu-153

63-Eu-153

MAT 6331

(n,α) Levels  
293 Kelvin Cross Sections

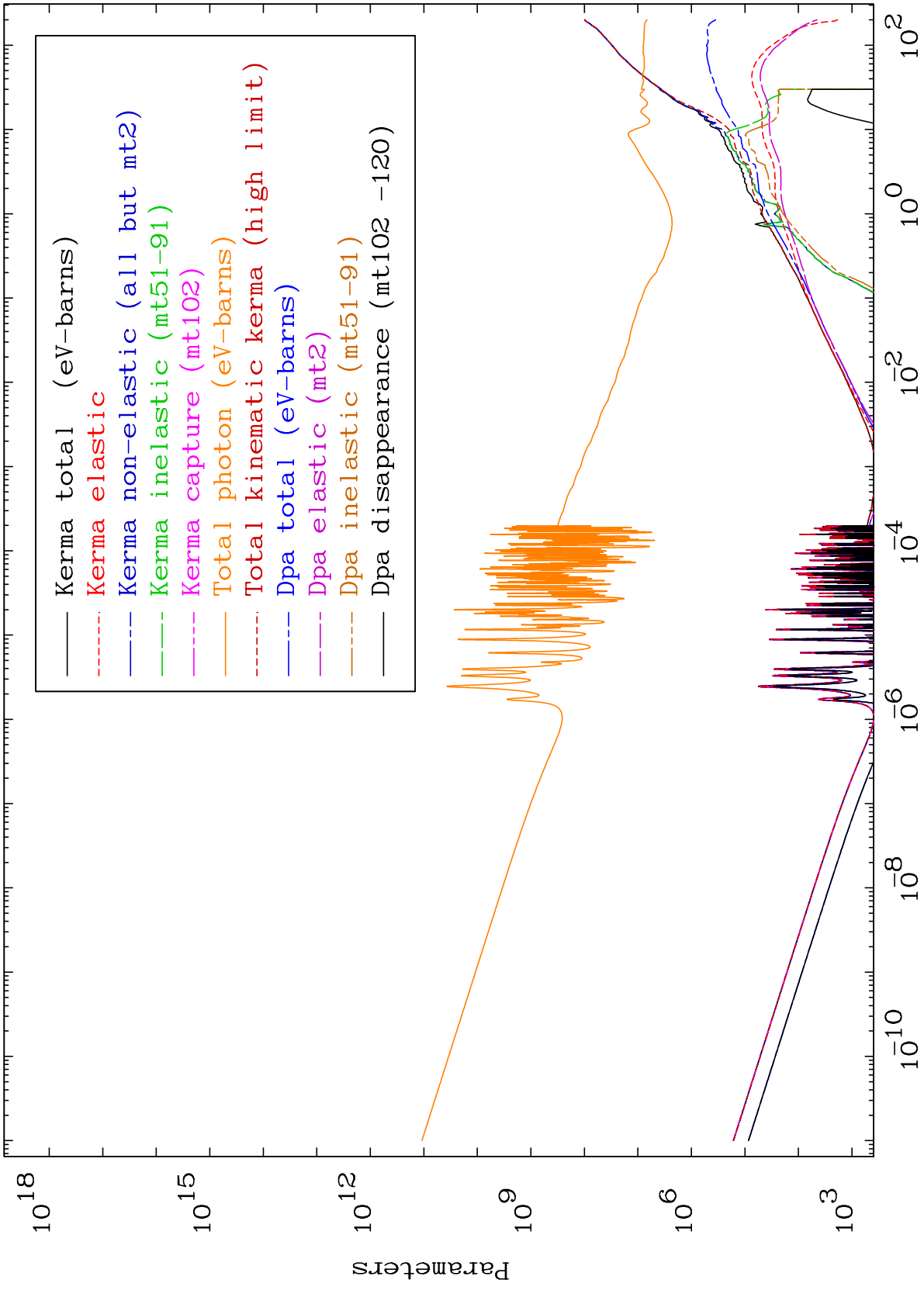
63-Eu-153



14

Incident Energy (MeV)

63-Eu-153

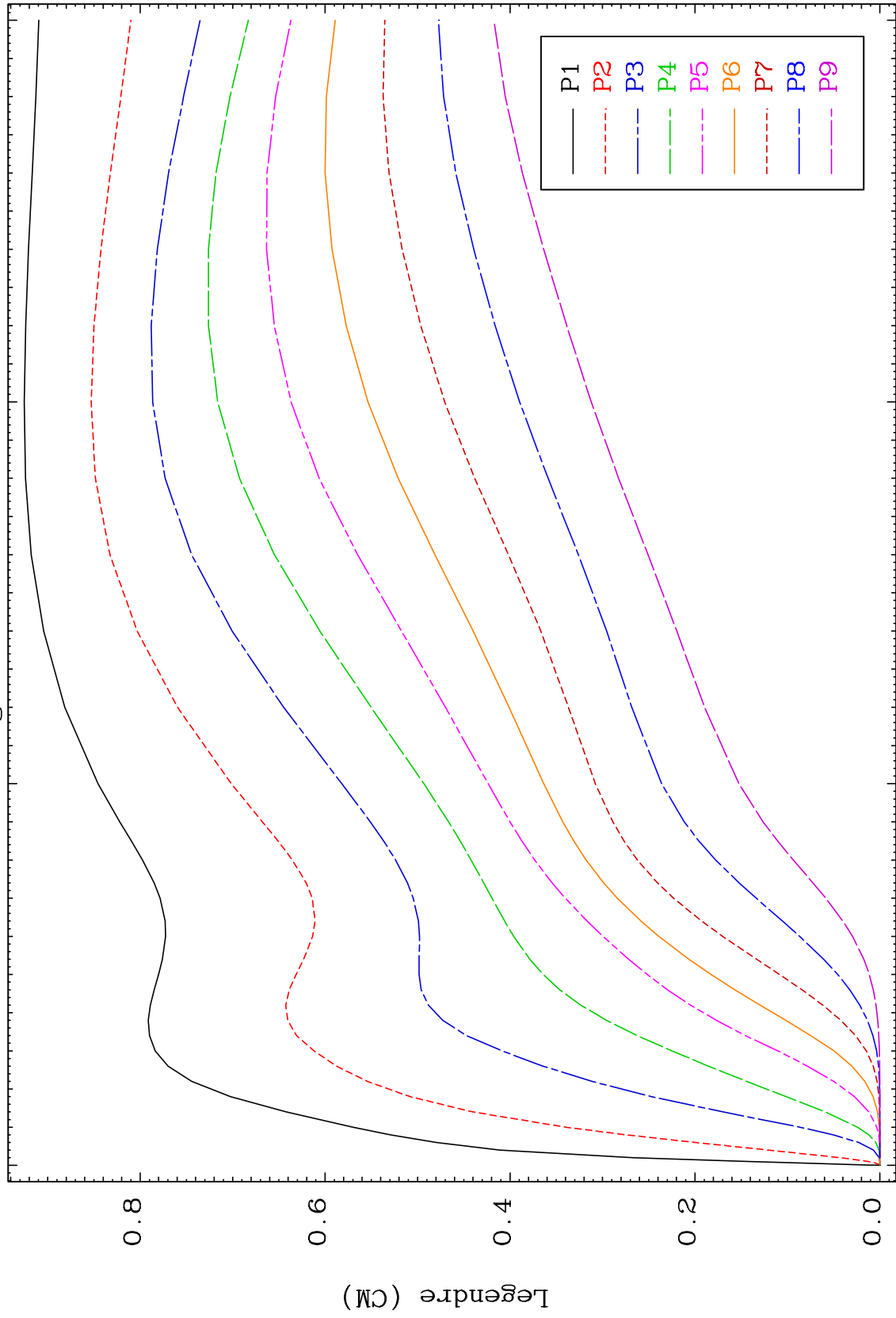




MAT 6331

Elastic Legendre Coefficients

63-Eu-153



16

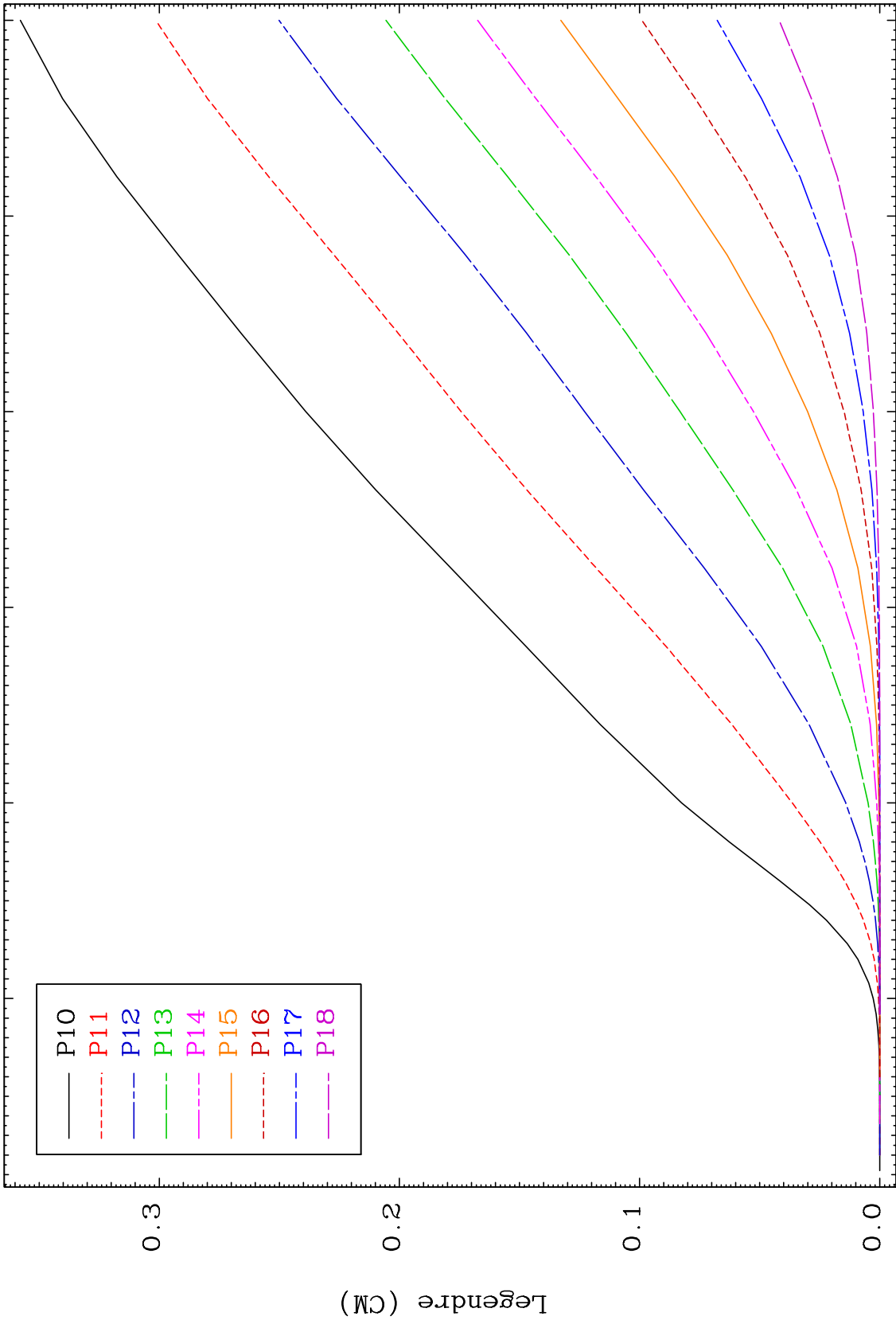
Incident Energy (MeV)

63-Eu-153

MAT 6331

Elastic Legendre Coefficients

63-Eu-153



17

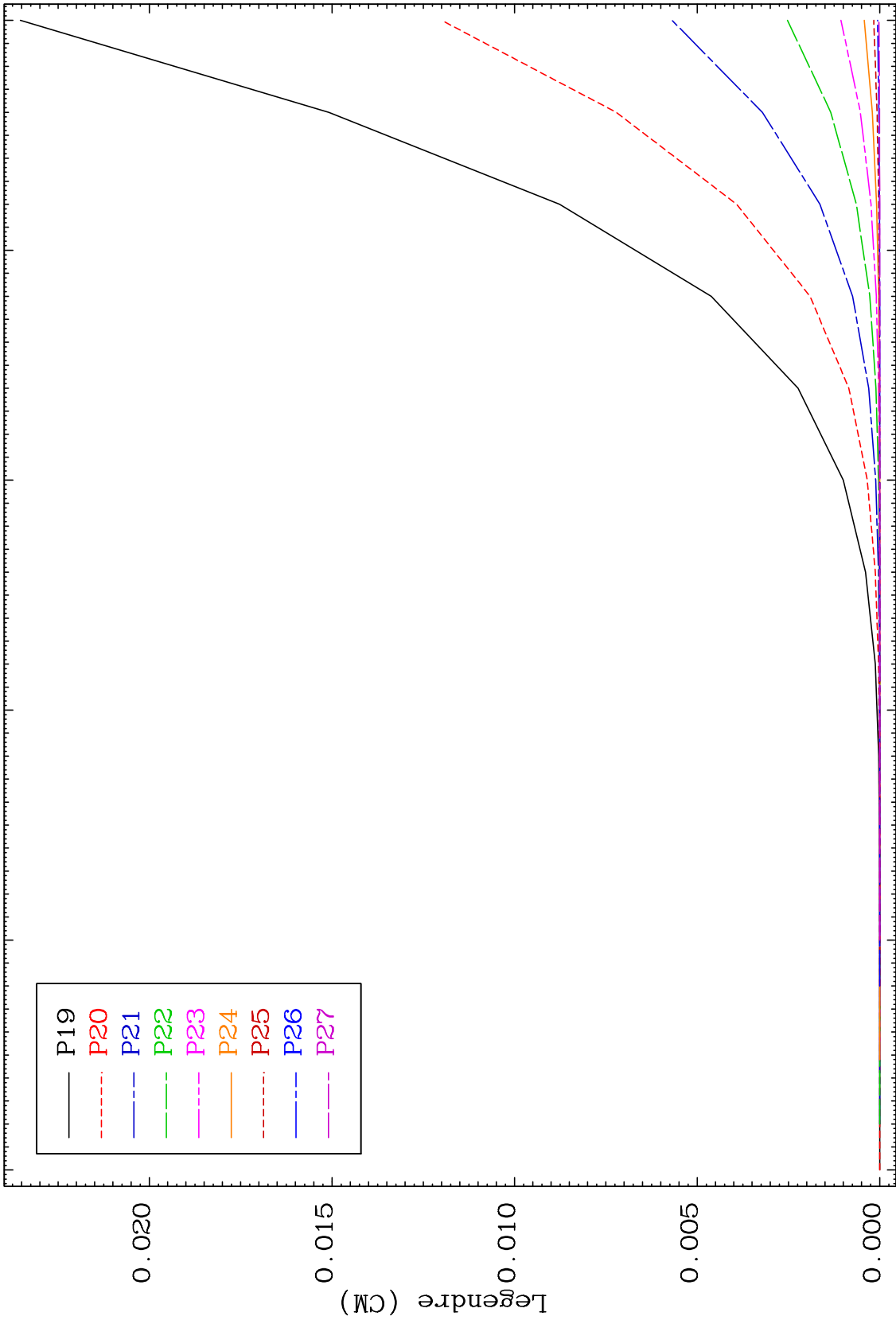
Incident Energy (MeV)

63-Eu-153

MAT 6331

### Elastic Legendre Coefficients

63-Eu-153



18

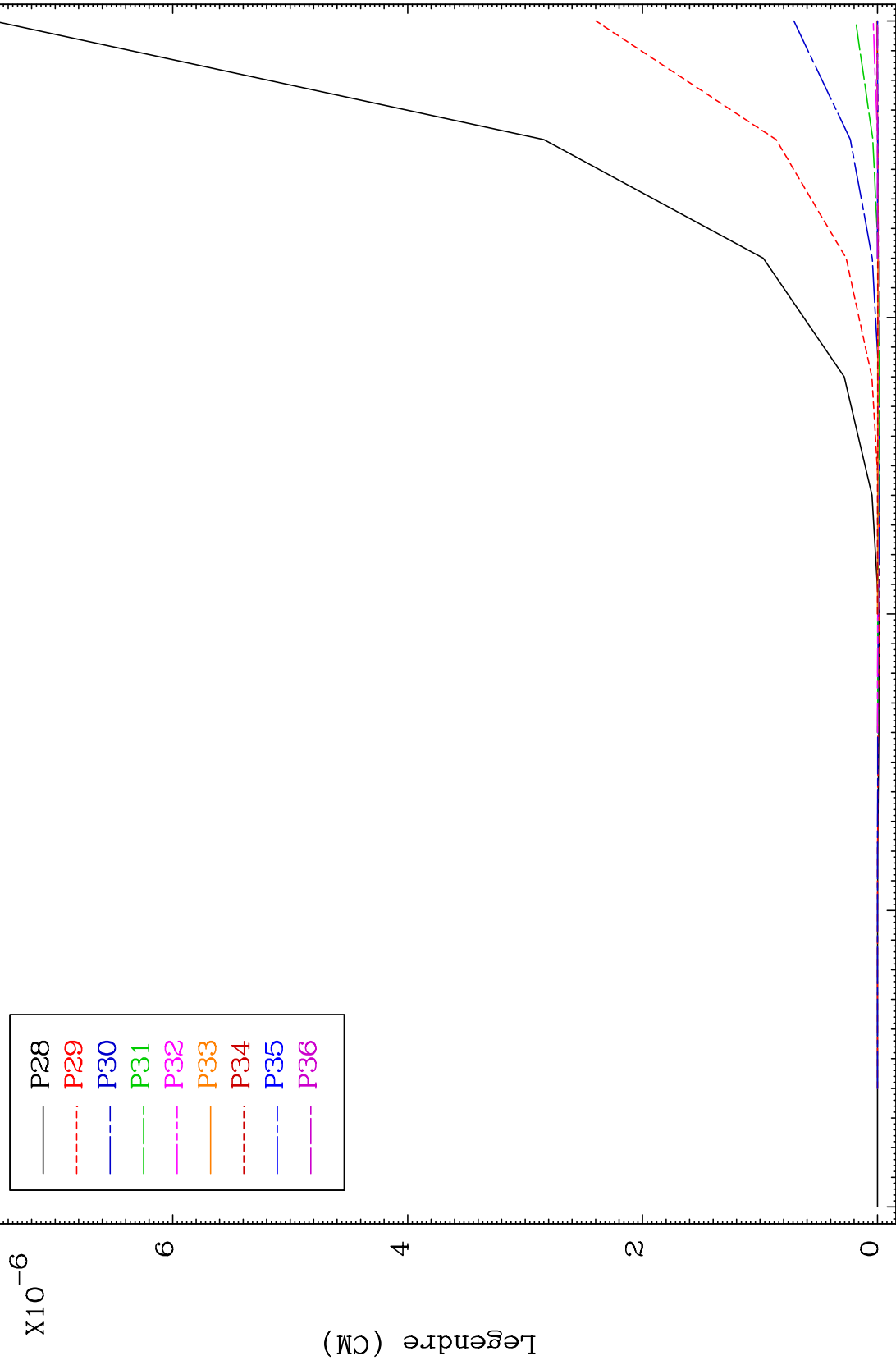
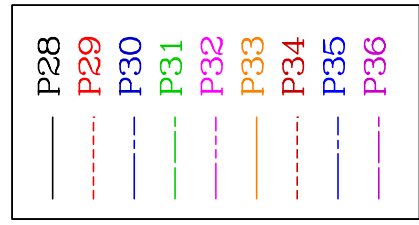
Incident Energy (MeV)

63-Eu-153

MAT 6331

Elastic Legendre Coefficients

63-Eu-153



19

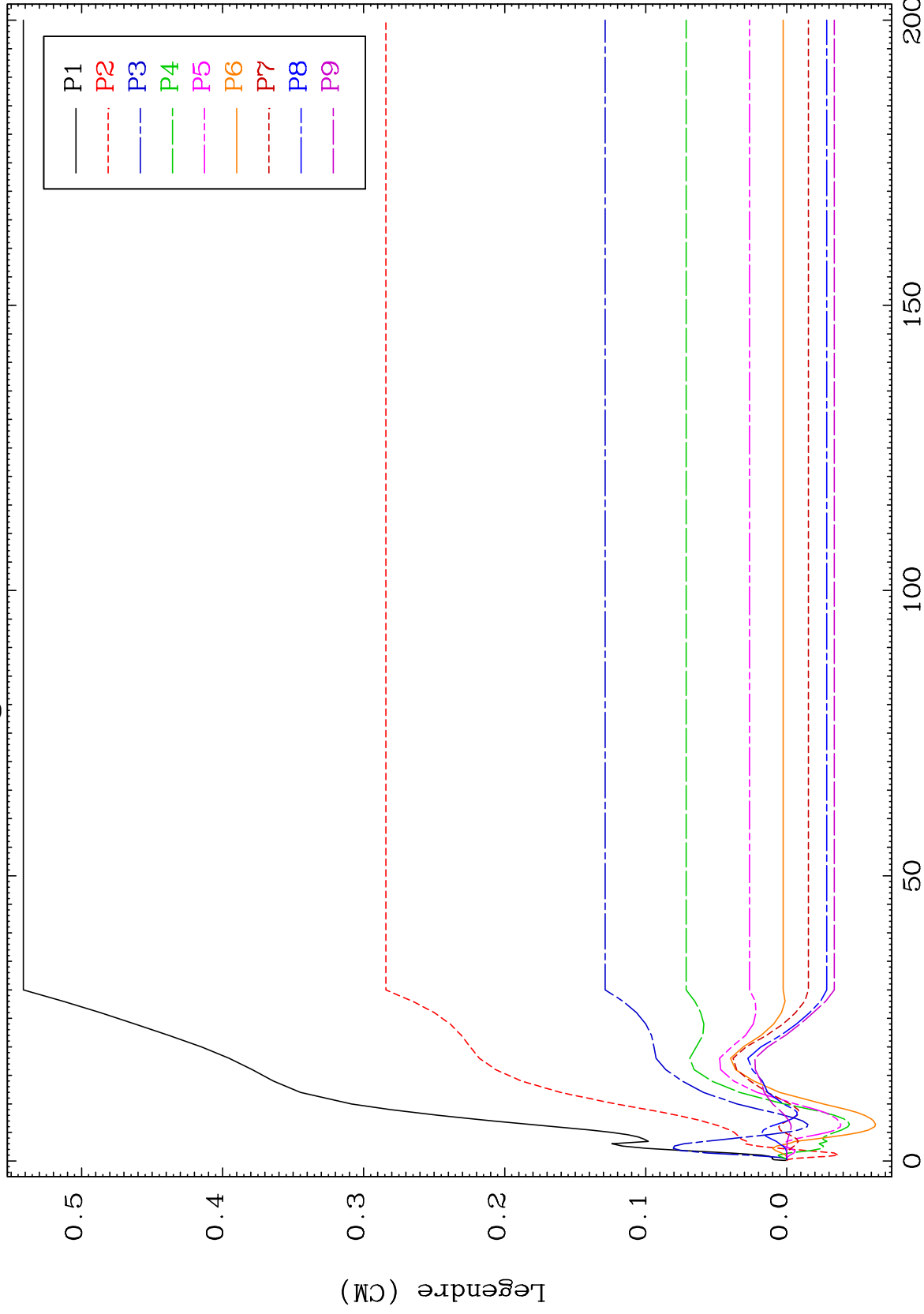
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



20

Incident Energy (MeV)

50

63-Eu-153

100

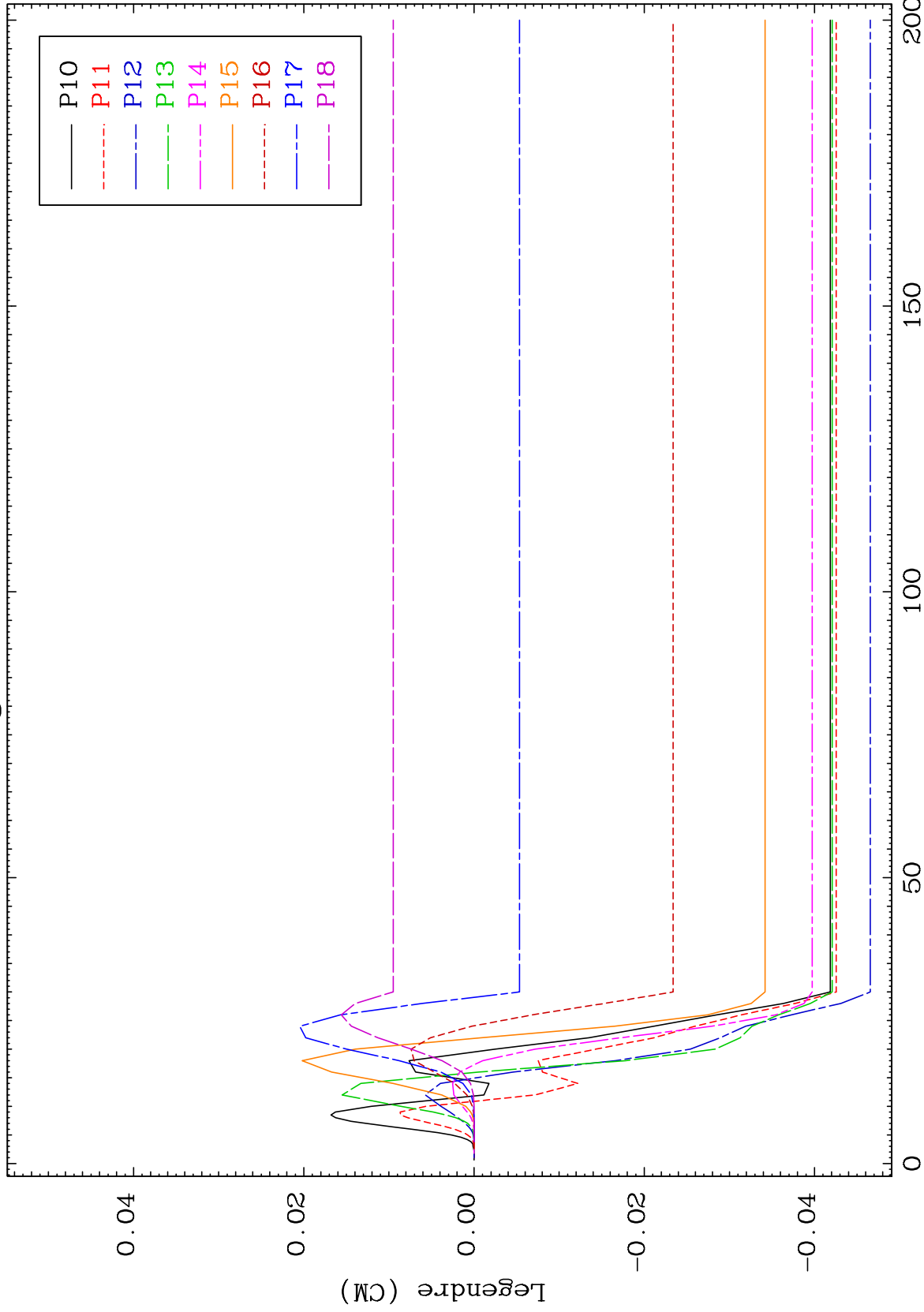
150

200

MAT 6331

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

63-Eu-153



21

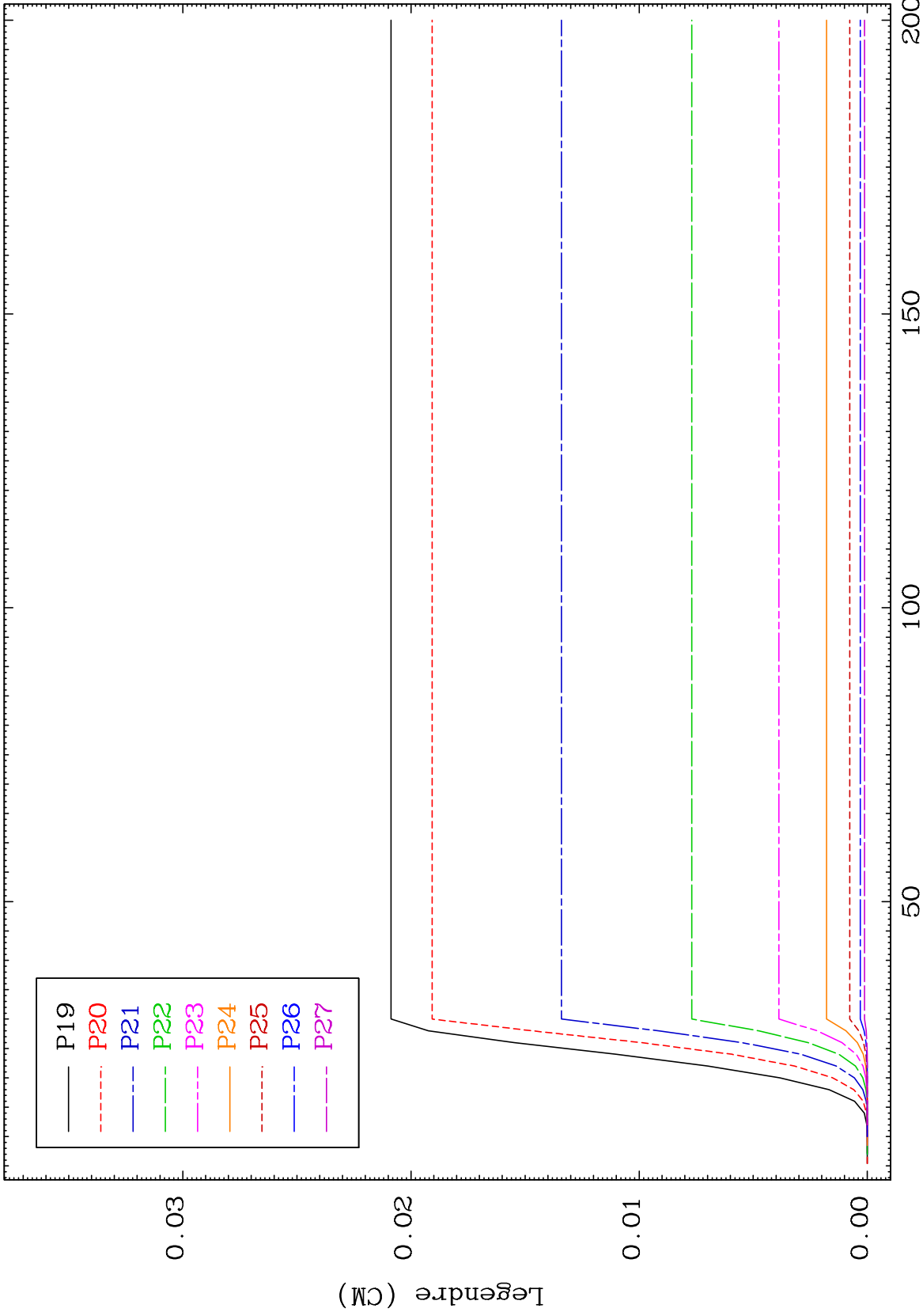
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



22

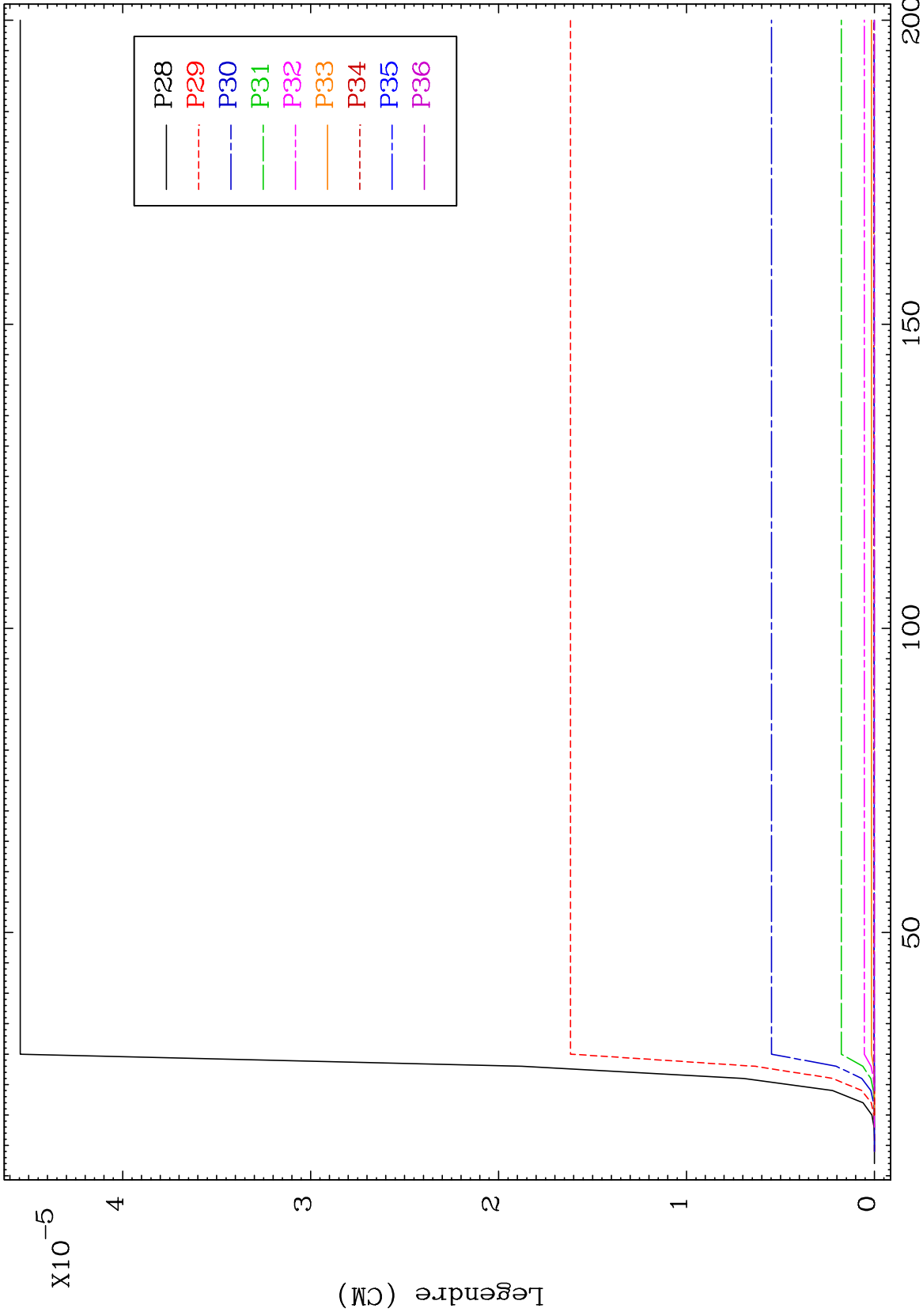
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



23

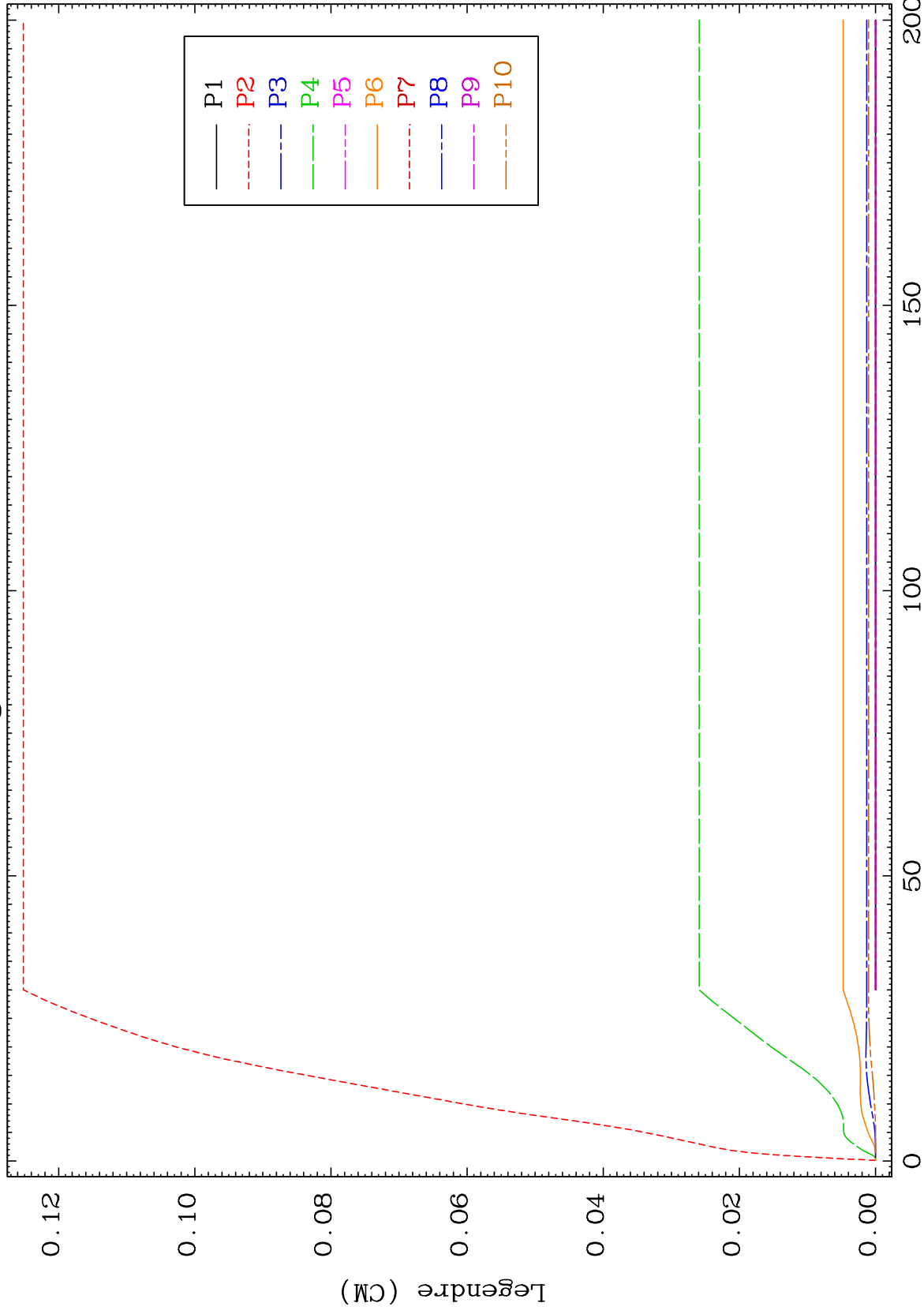
63-Eu-153



MAT 6331

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

63-Eu-153



24

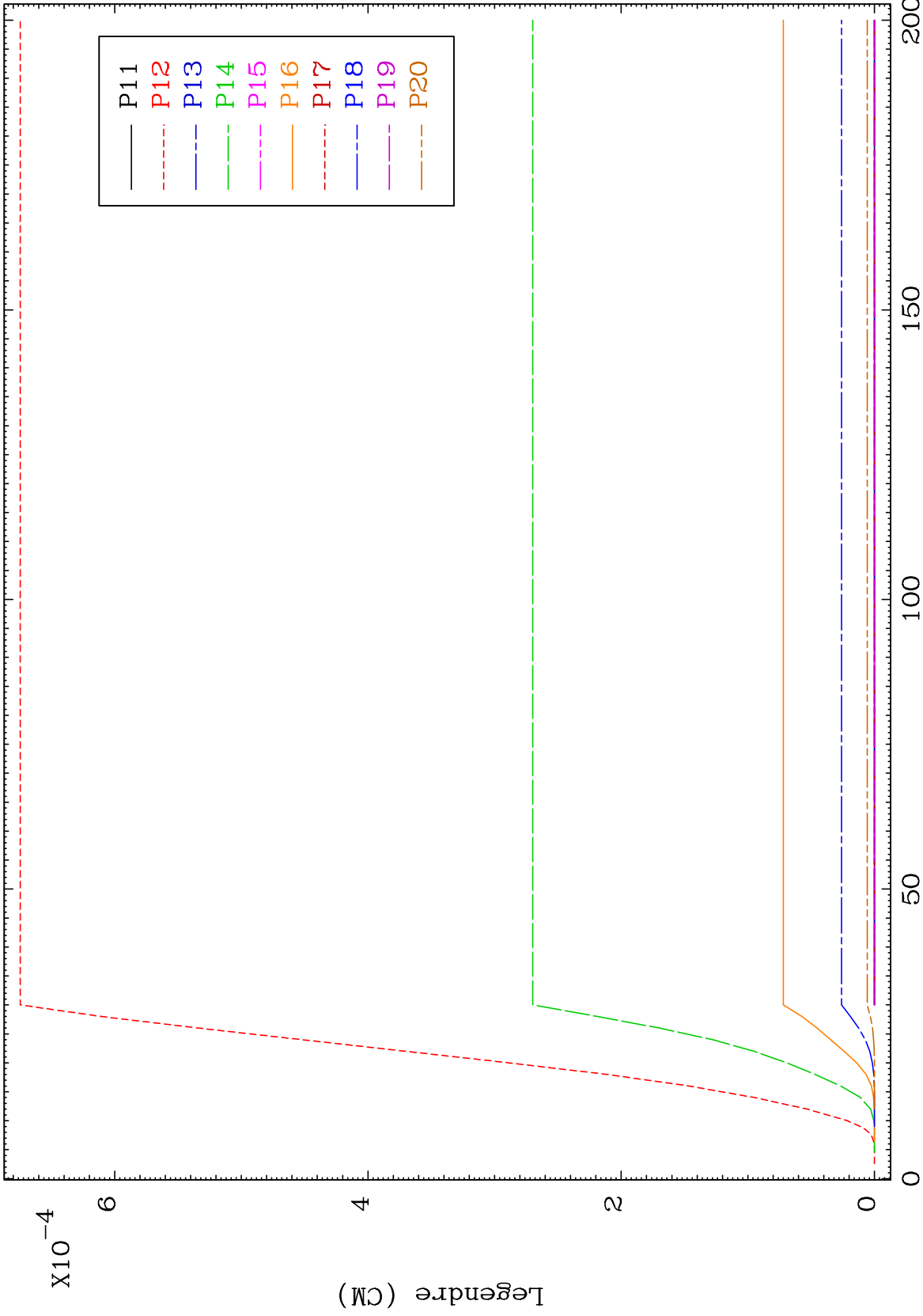
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



25

Incident Energy (MeV)

50

100

150

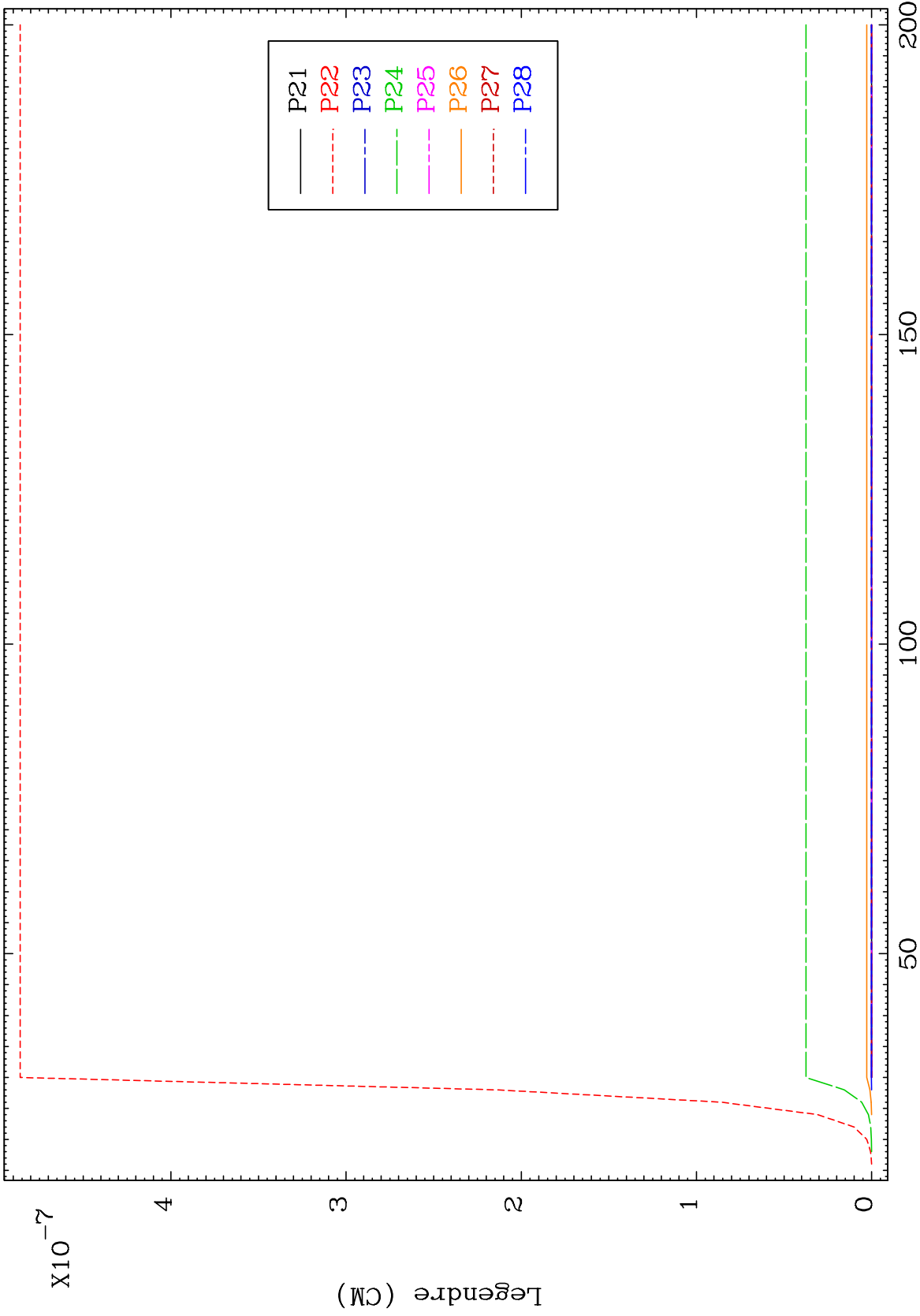
200

63-Eu-153

MAT 6331

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

63-Eu-153



26

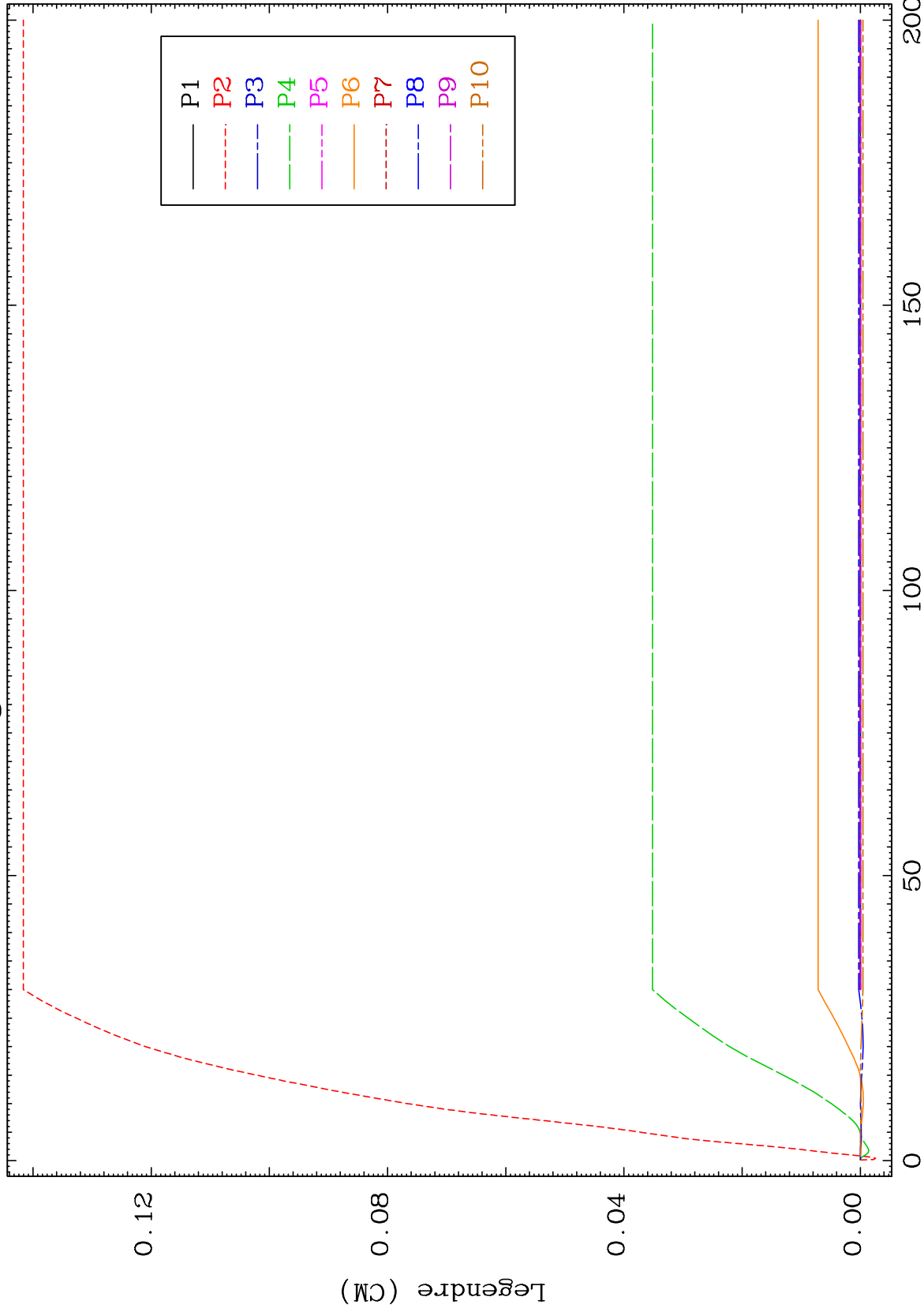
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



27

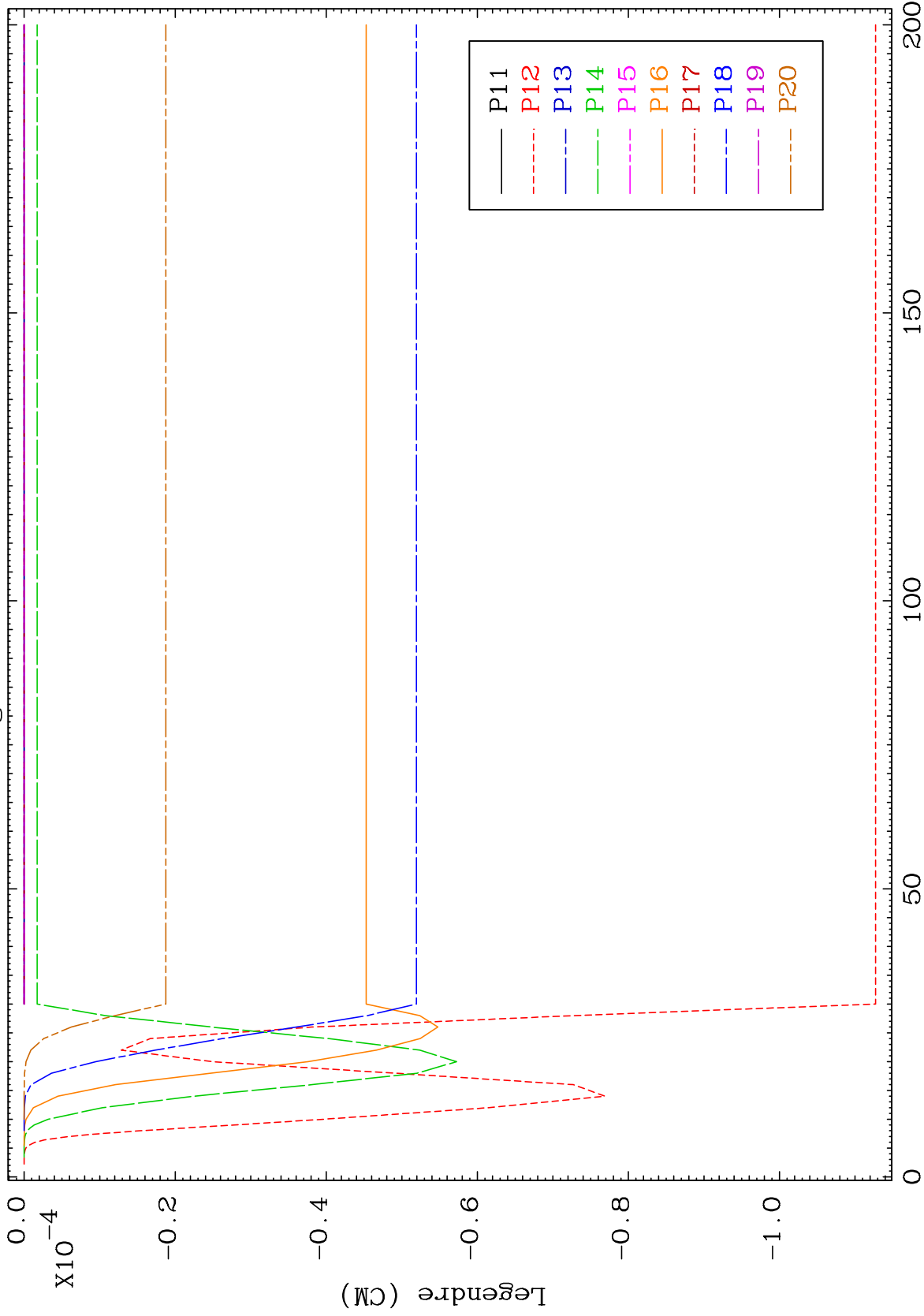
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



28

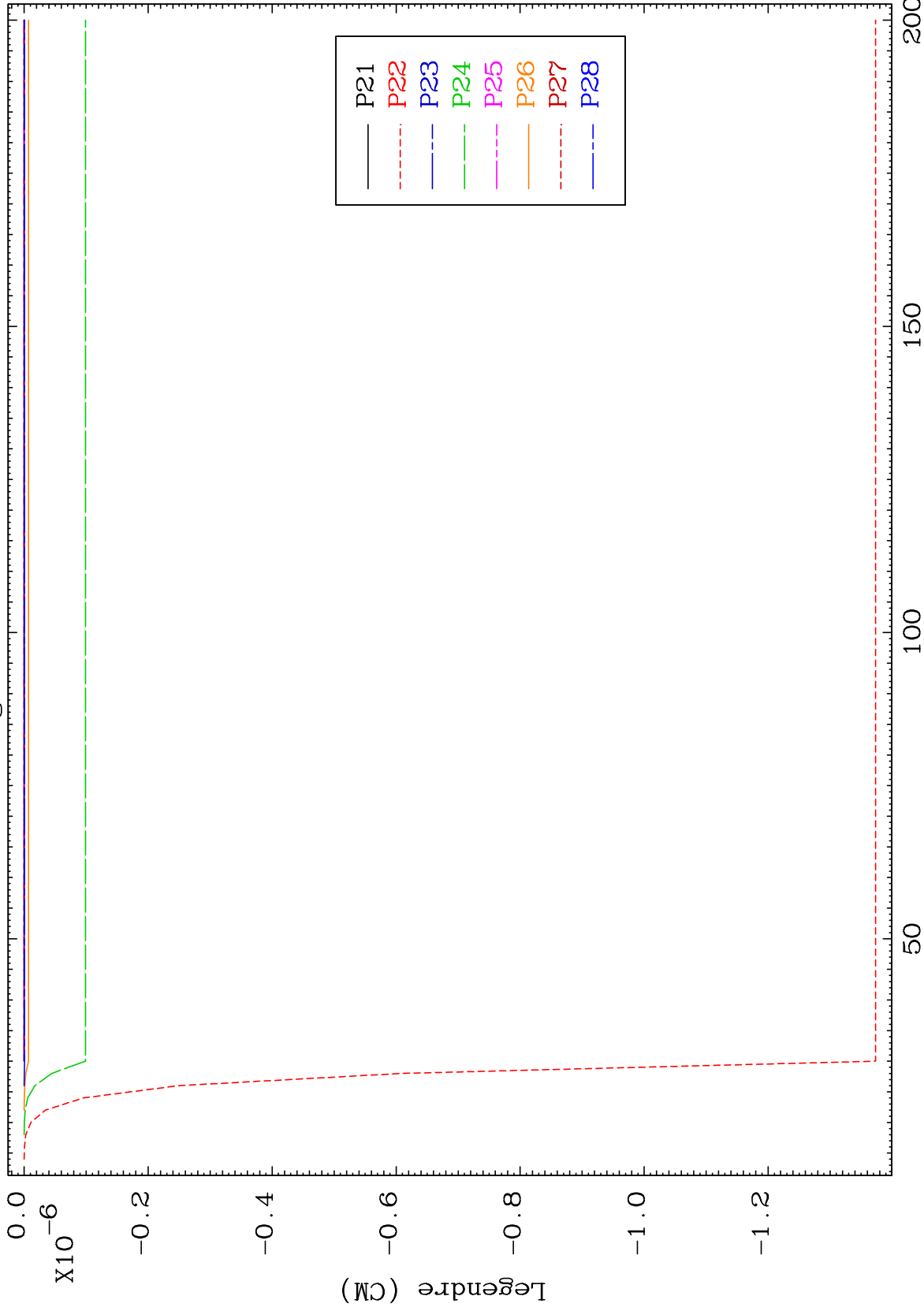
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



29

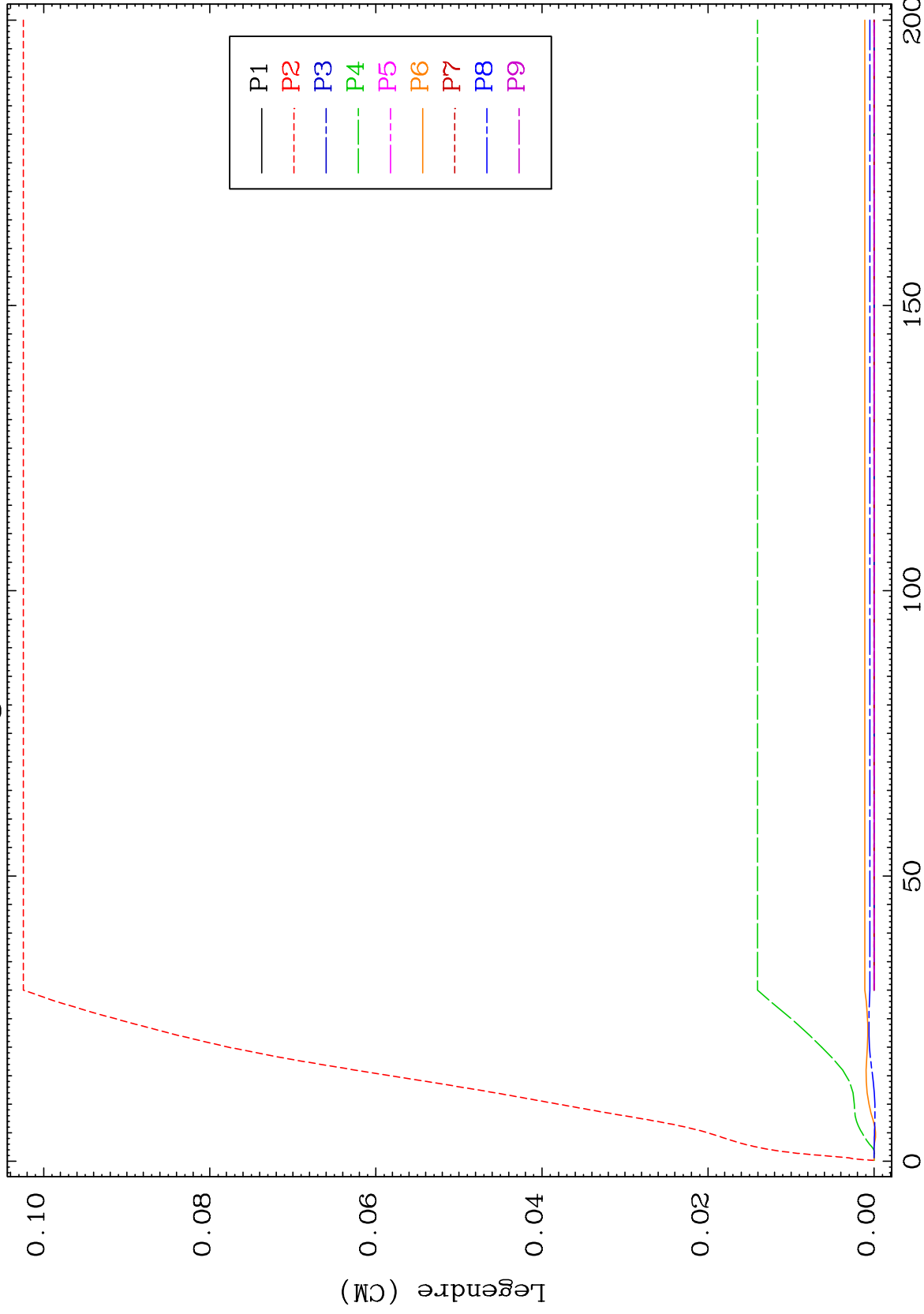
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



63-Eu-153

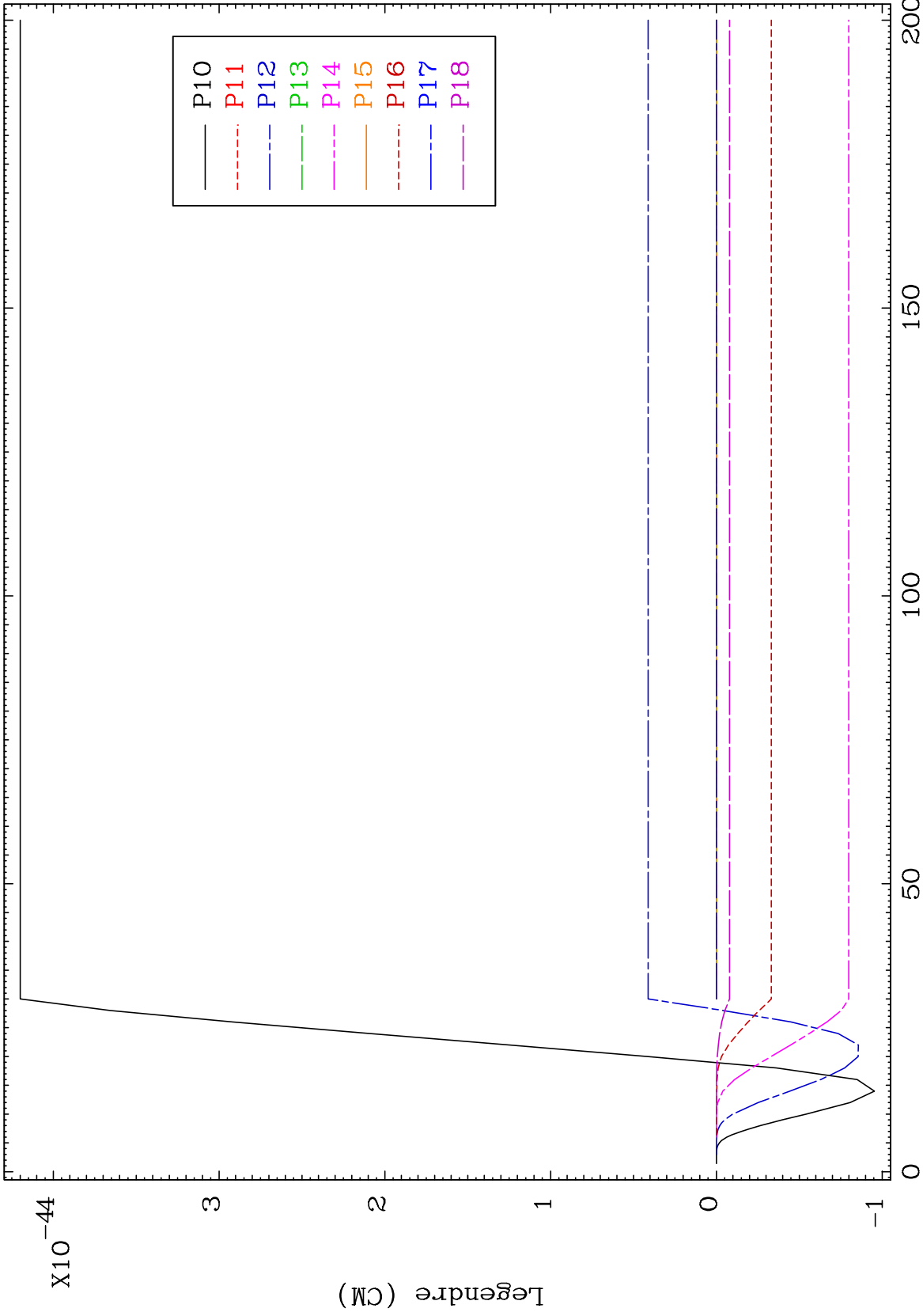
Incident Energy (MeV)

30

MAT 6331

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

63-Eu-153



31

Incident Energy (MeV)

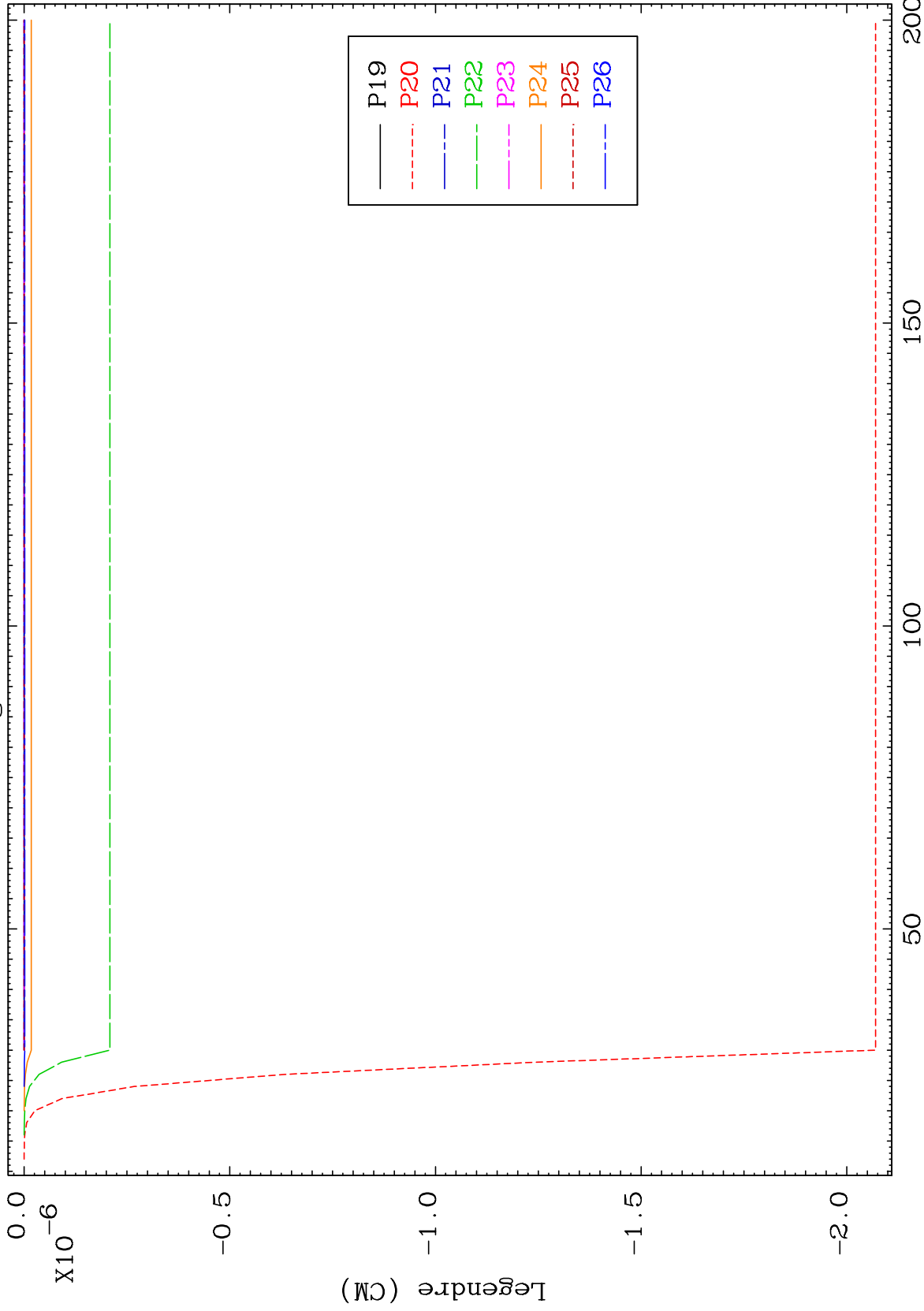
63-Eu-153



MAT 6331

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

63-Eu-153



32

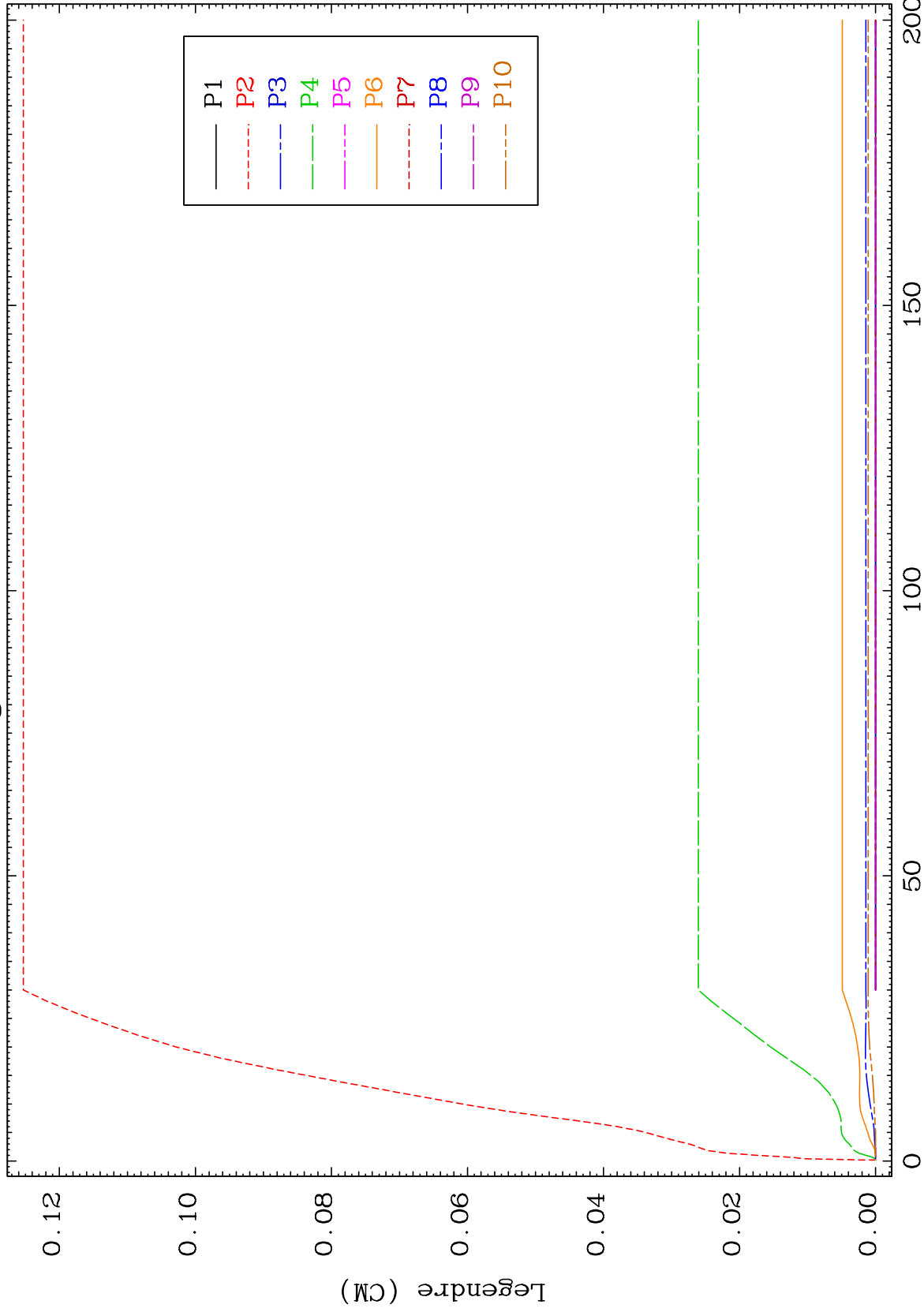
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



33

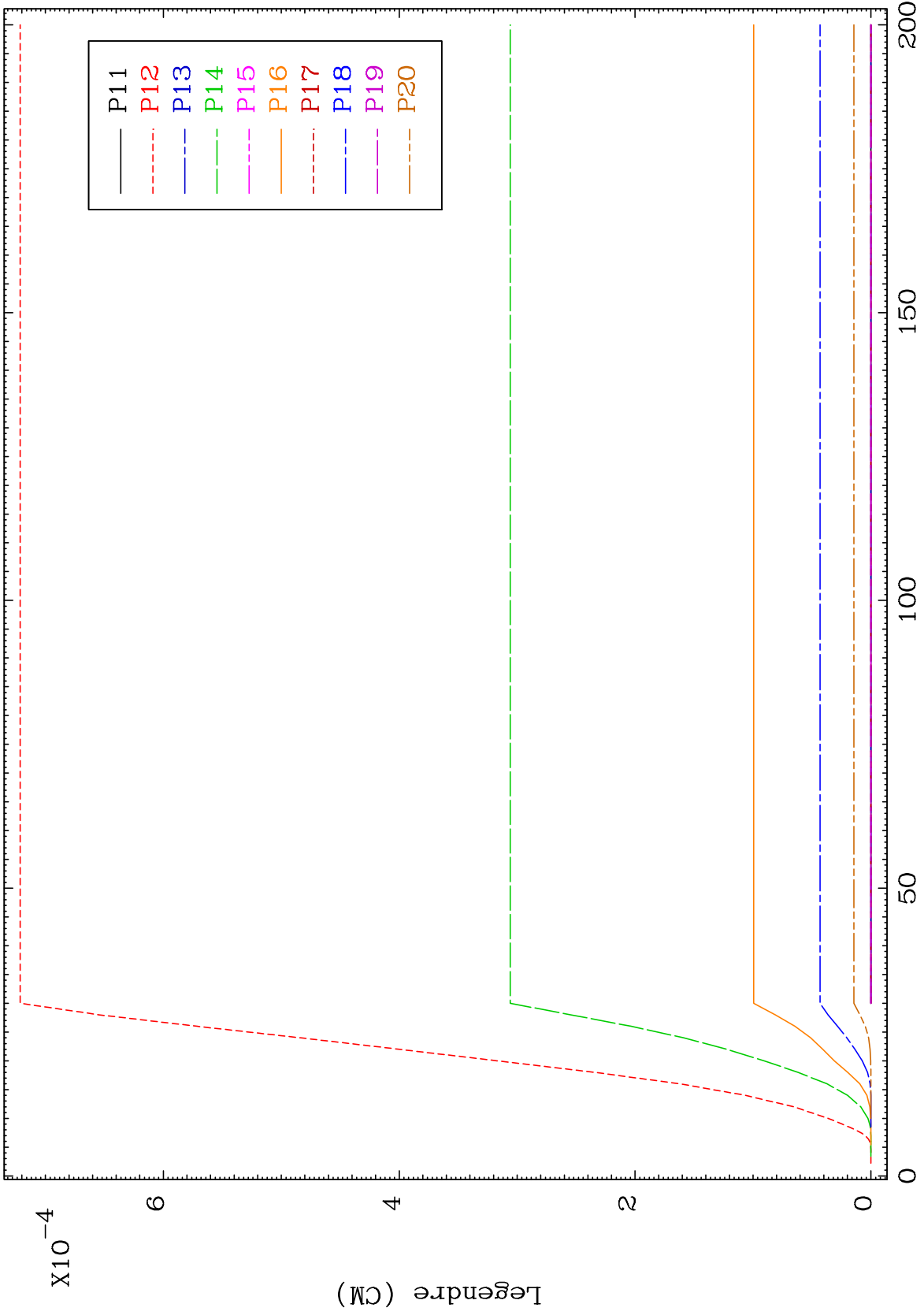
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



34

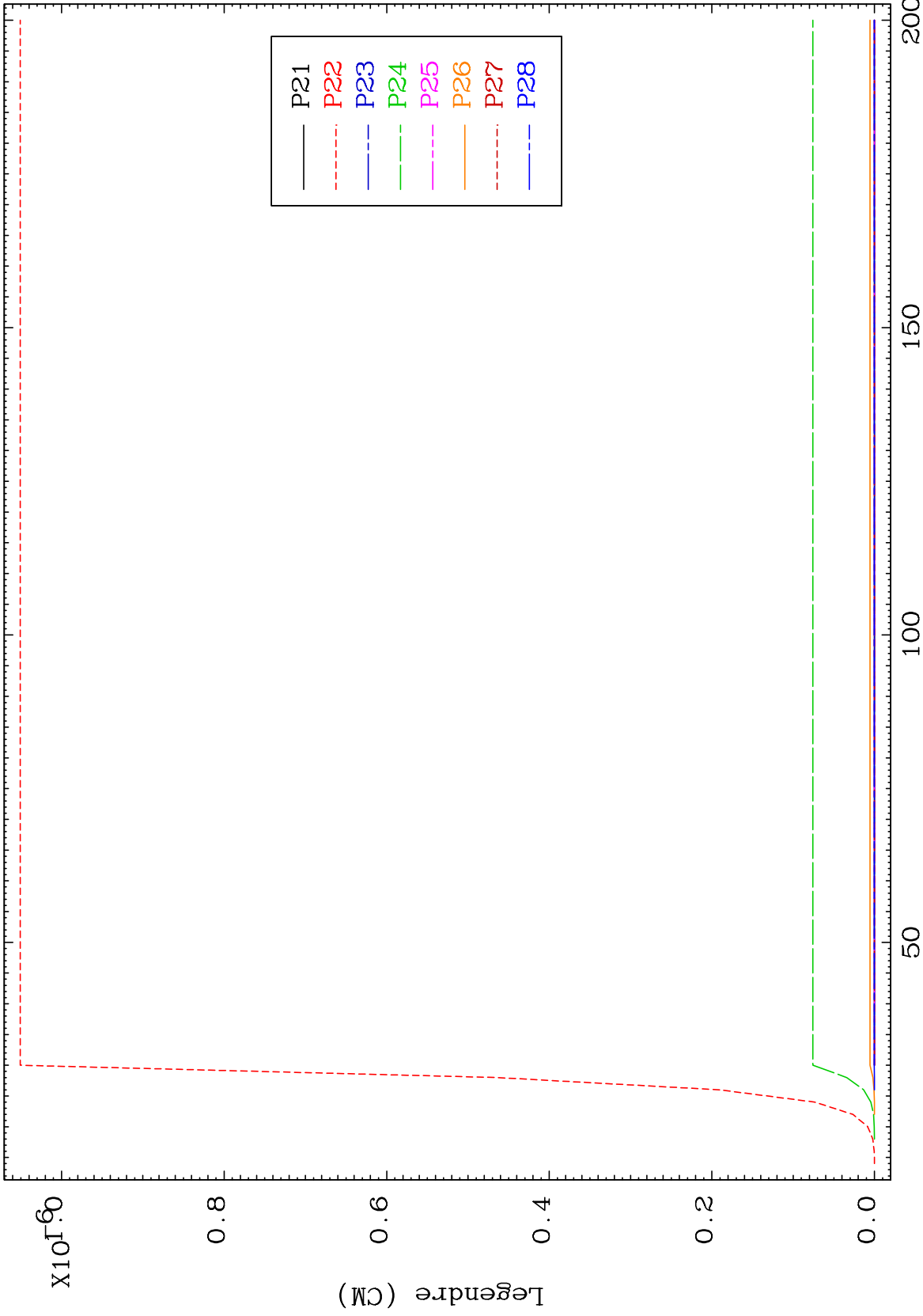
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



35

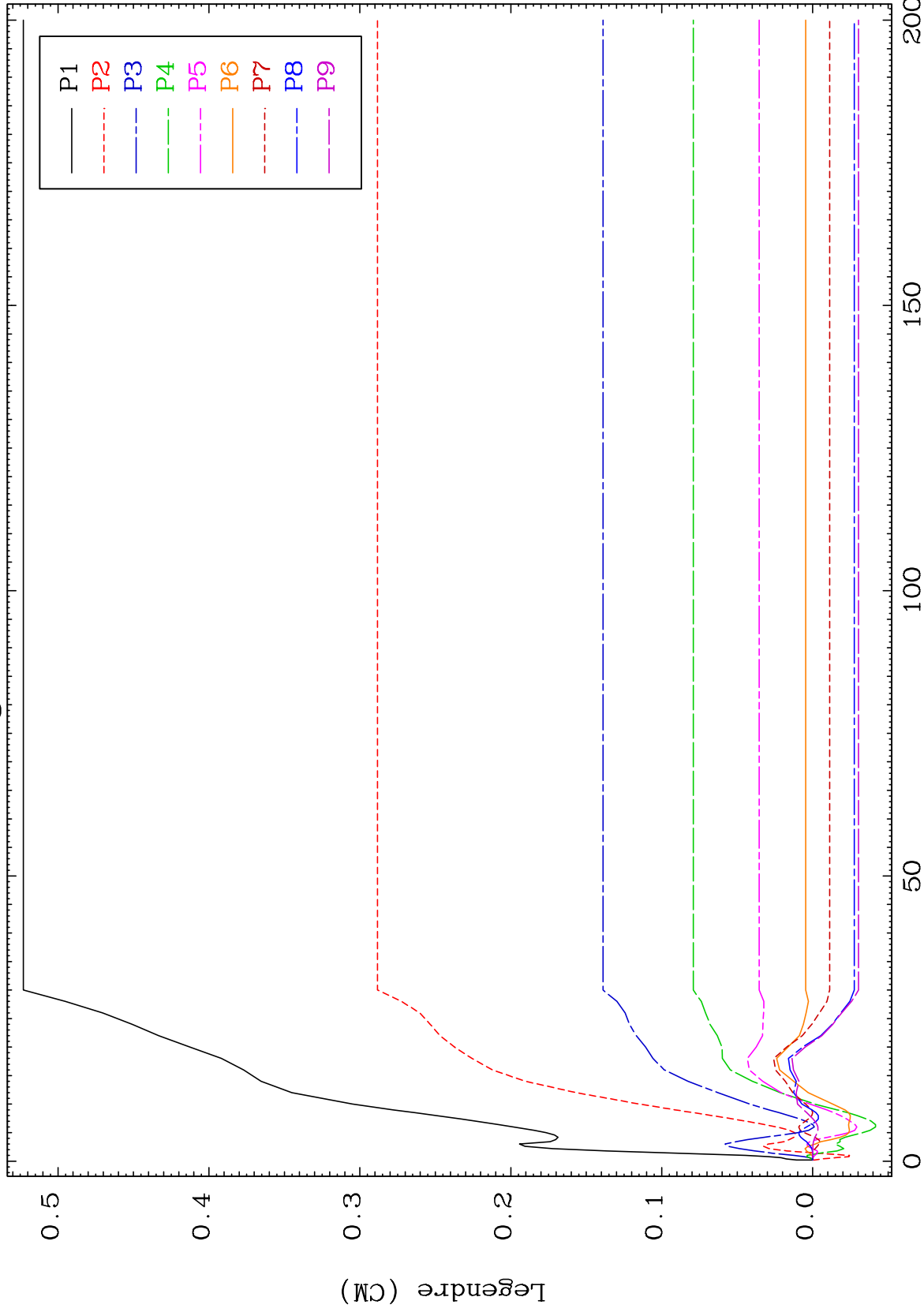
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



36

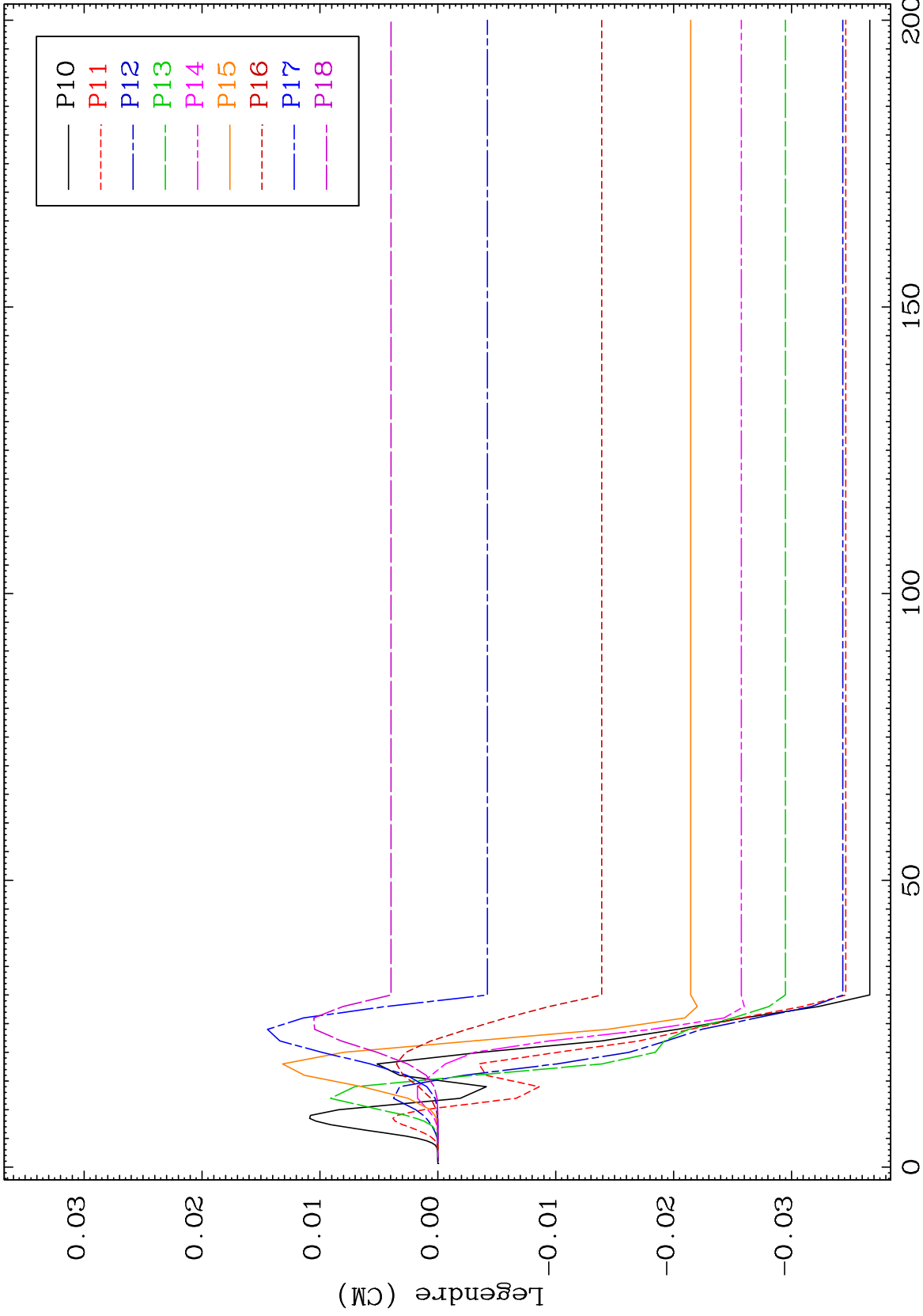
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



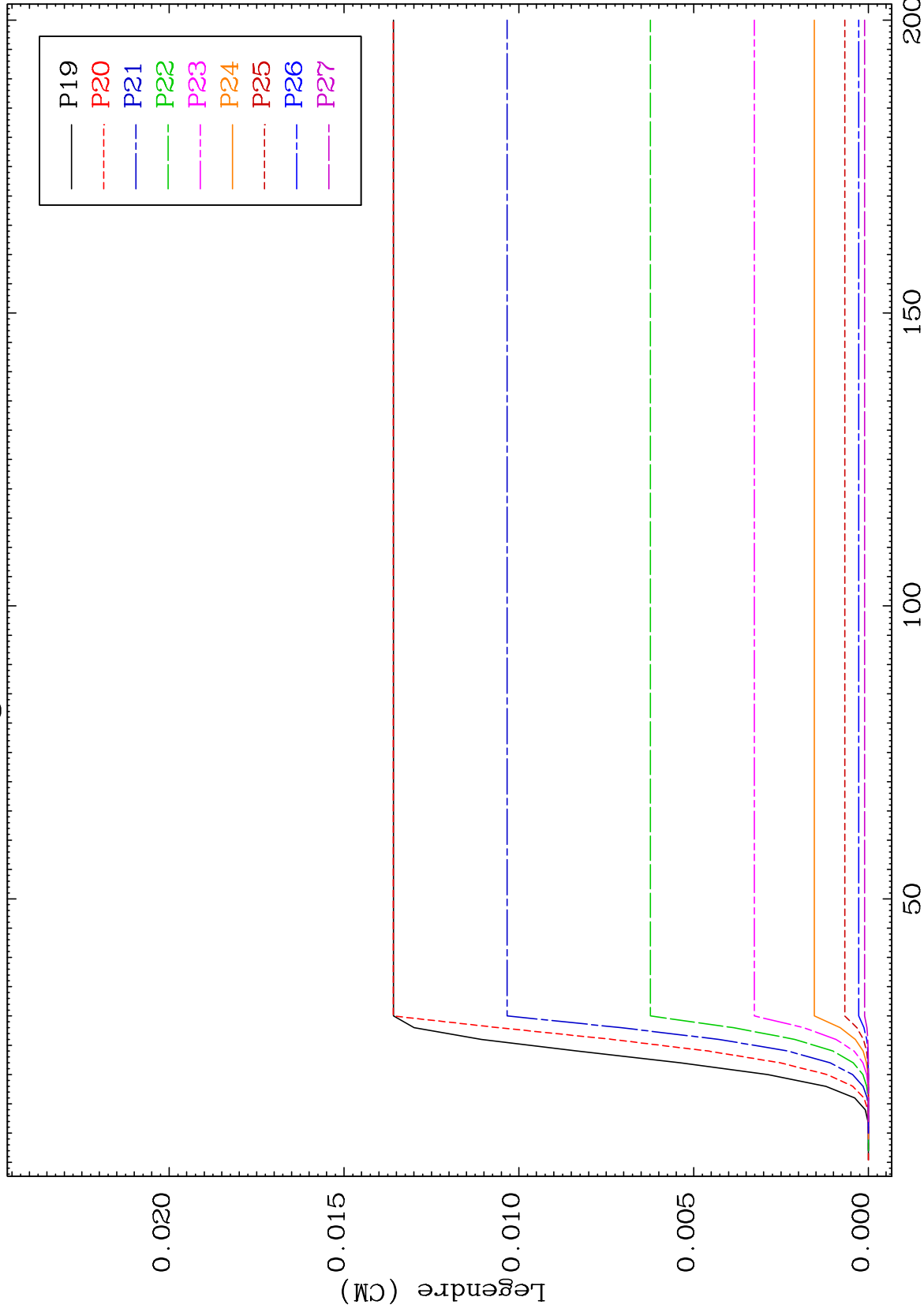
37

63-Eu-153

MAT 6331

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

63-Eu-153



38

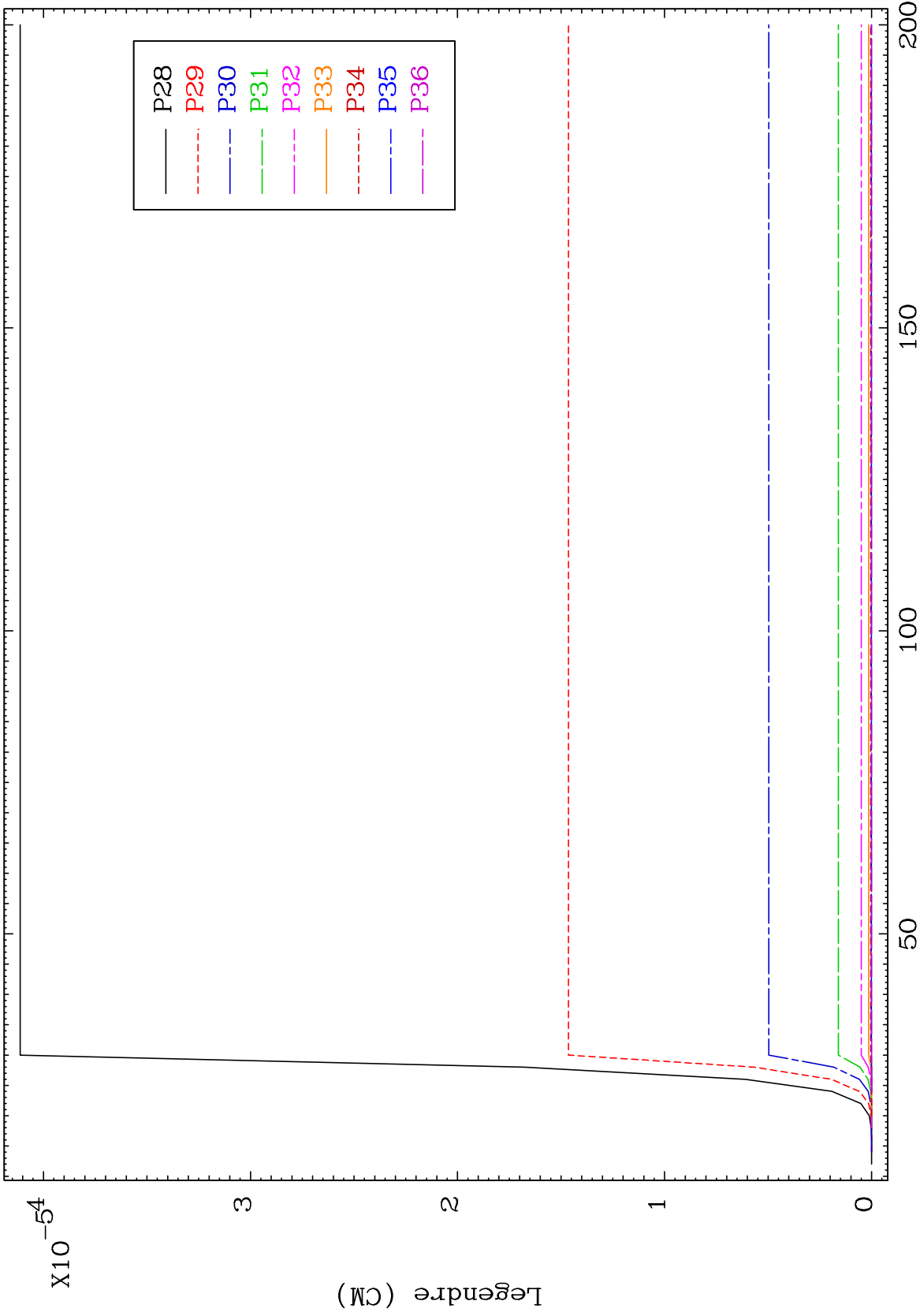
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



39

Incident Energy (MeV)

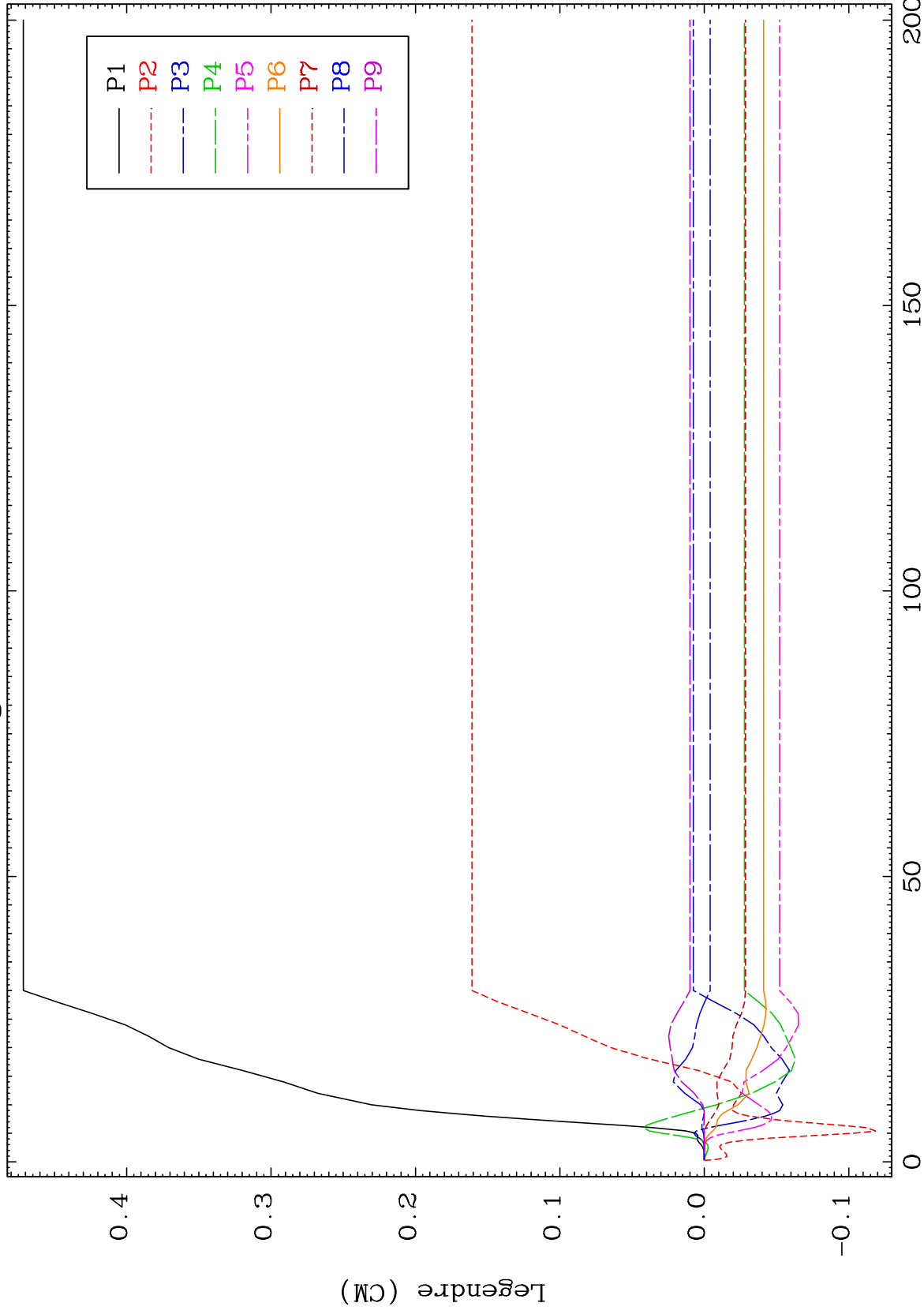
63-Eu-153



MAT 6331

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

63-Eu-153



63-Eu-153

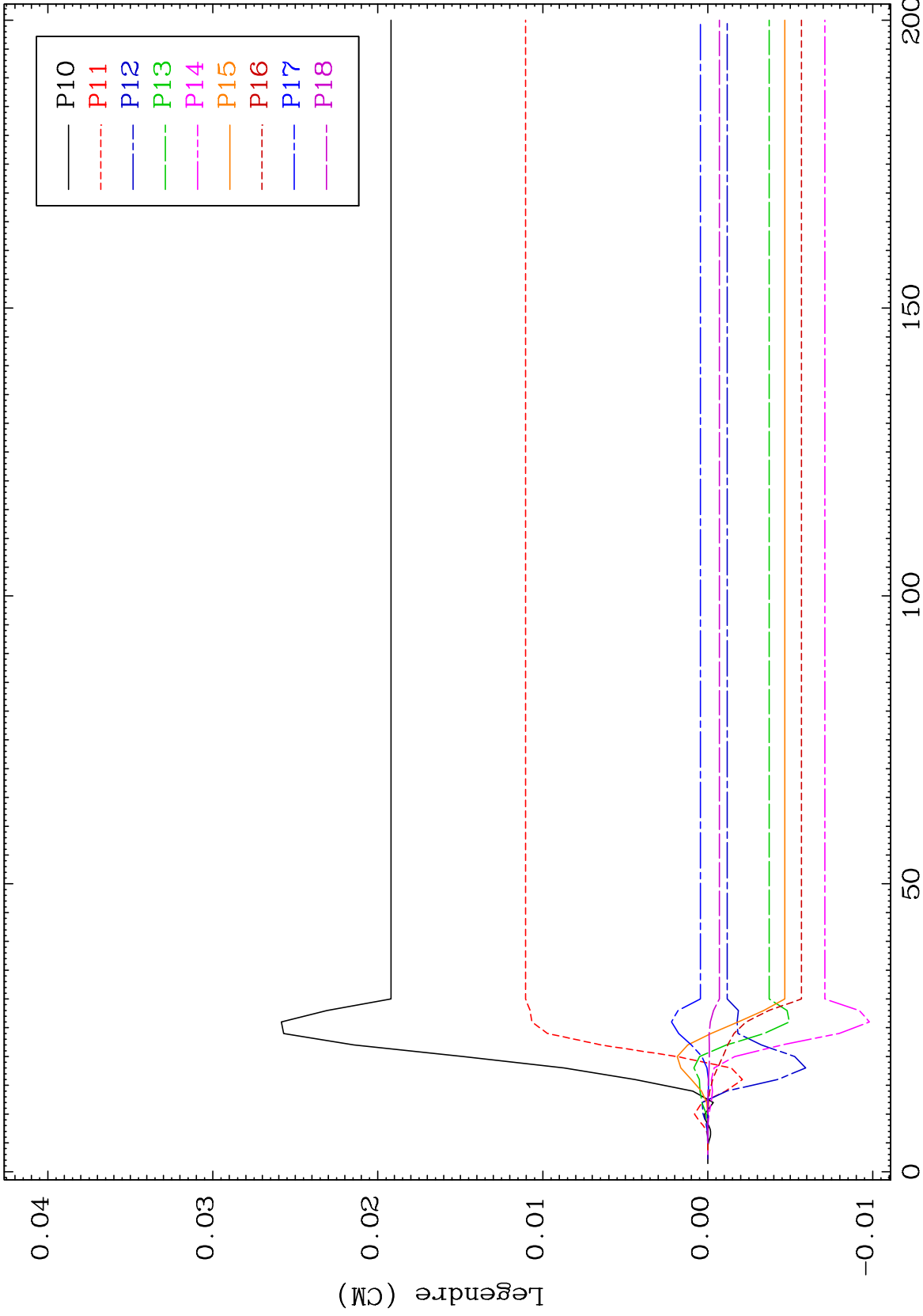
Incident Energy (MeV)

40

MAT 6331

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

63-Eu-153



41

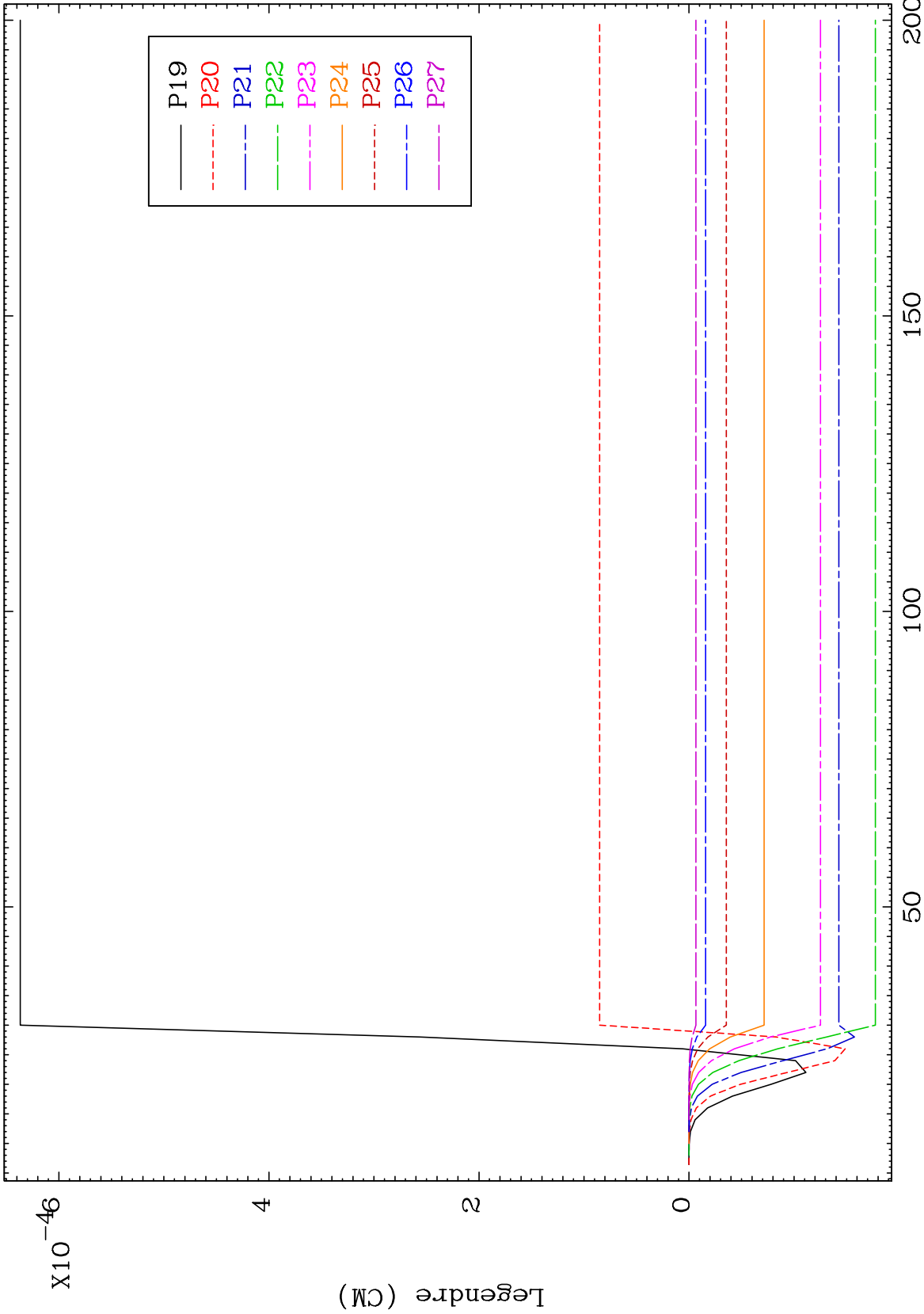
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



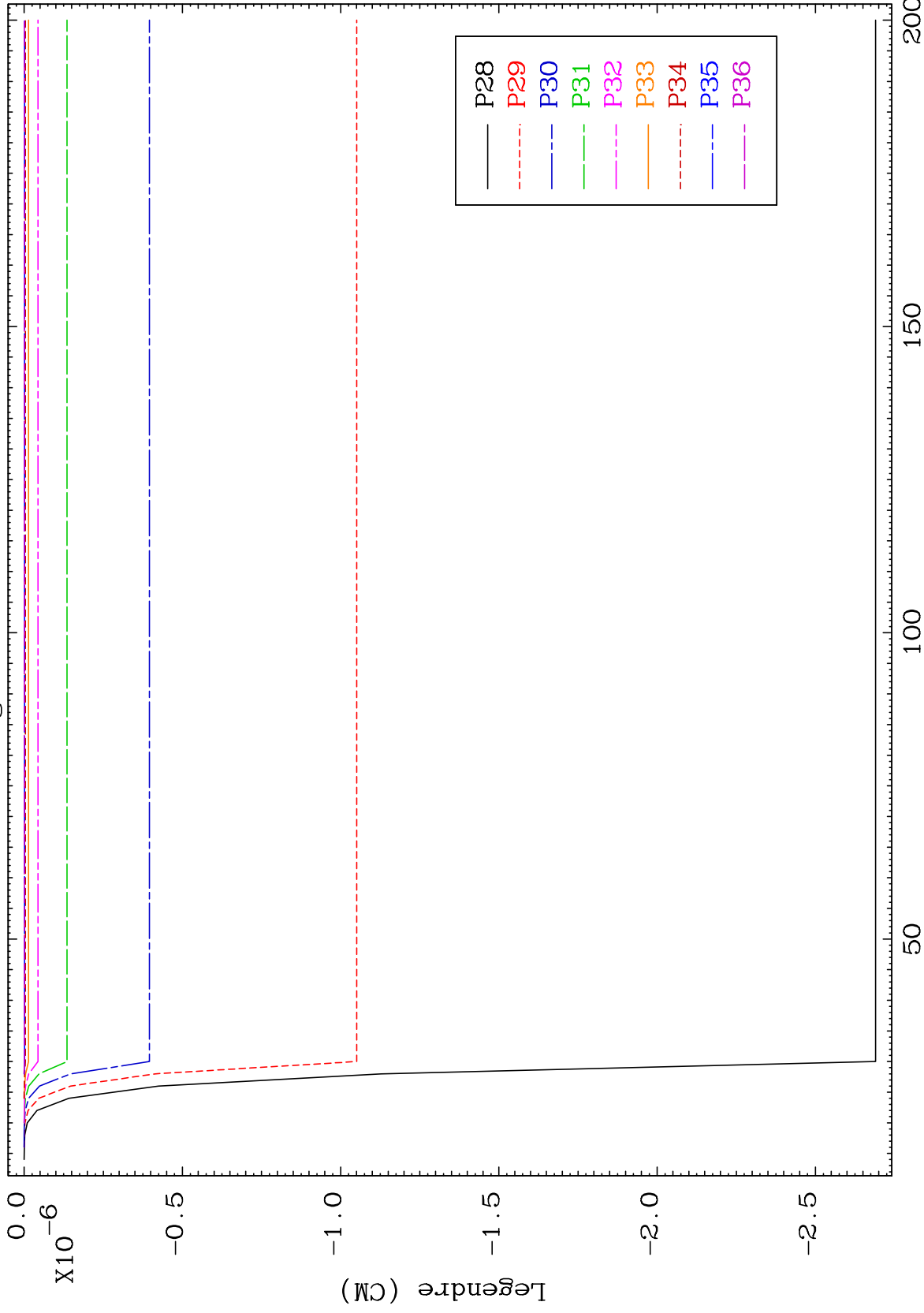
42

63-Eu-153

MAT 6331

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

63-Eu-153



43

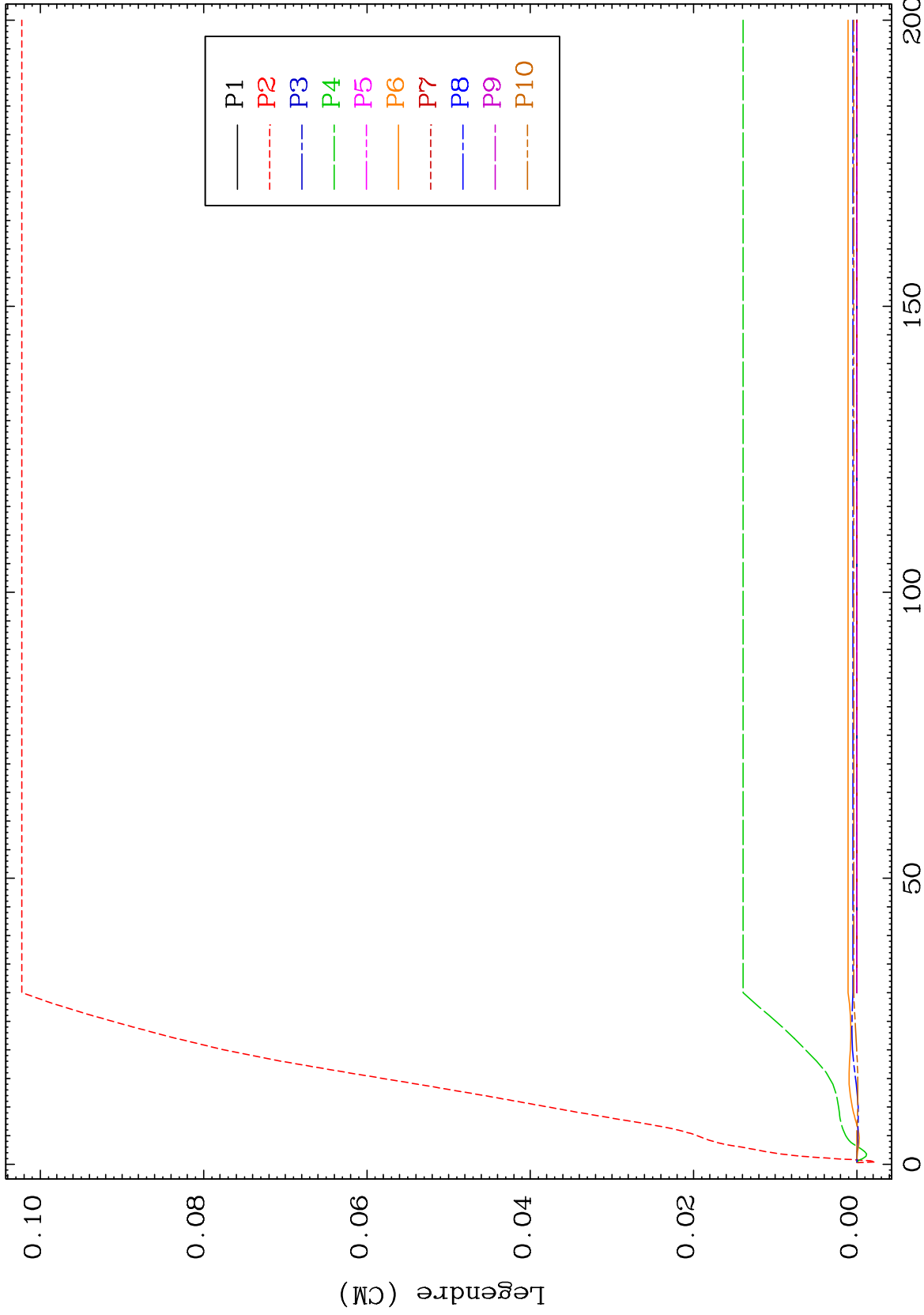
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



44

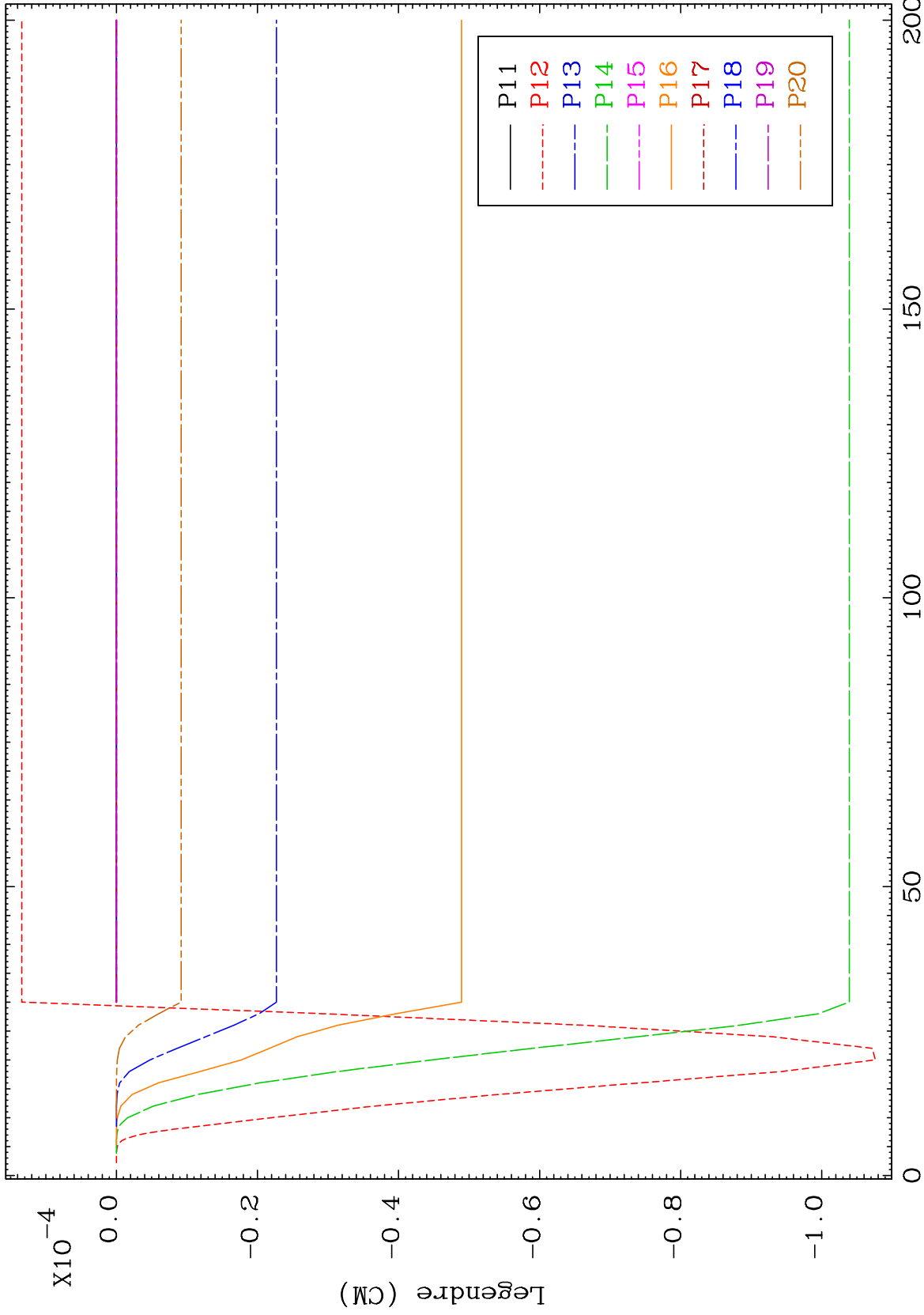
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



45

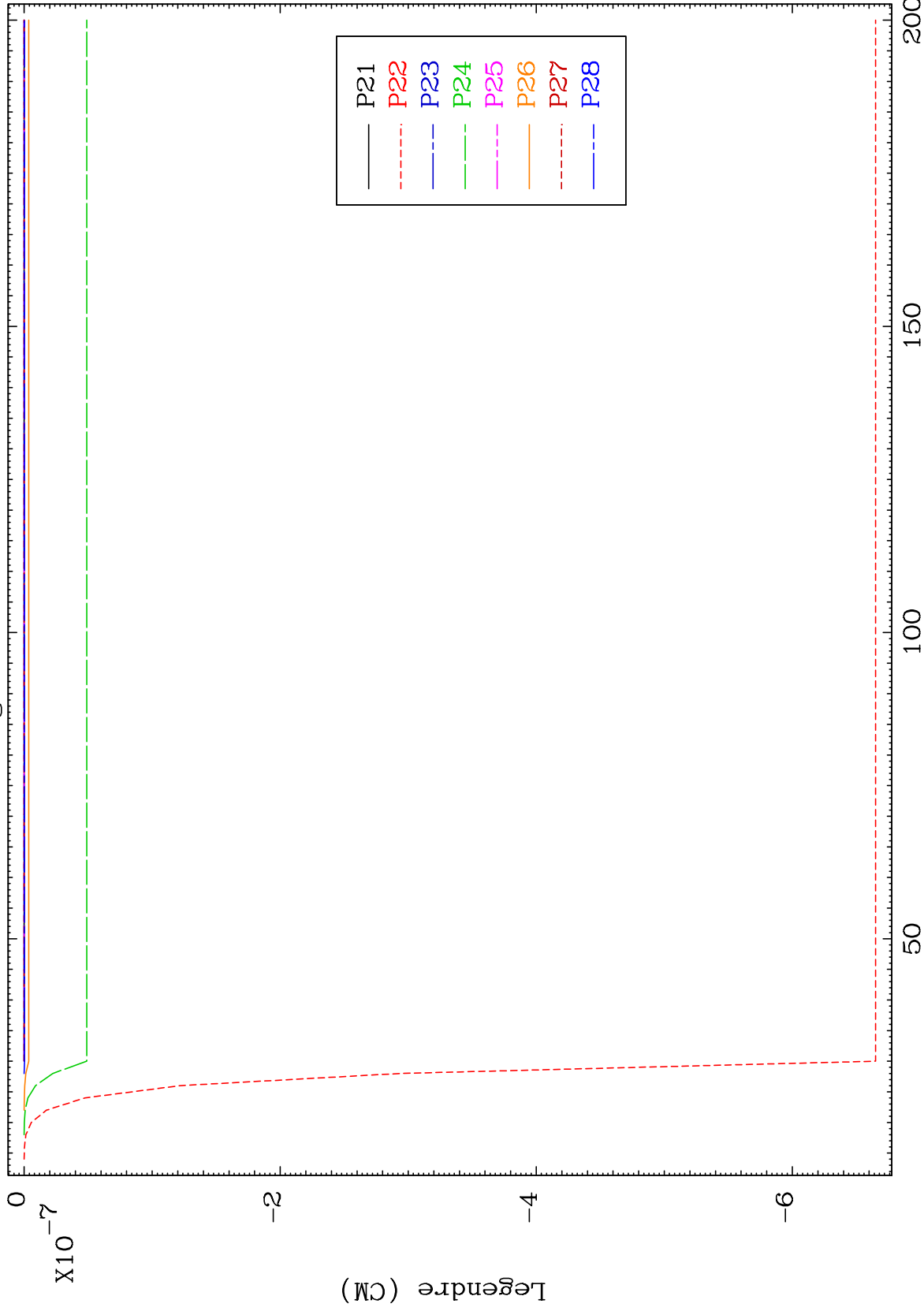
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



46

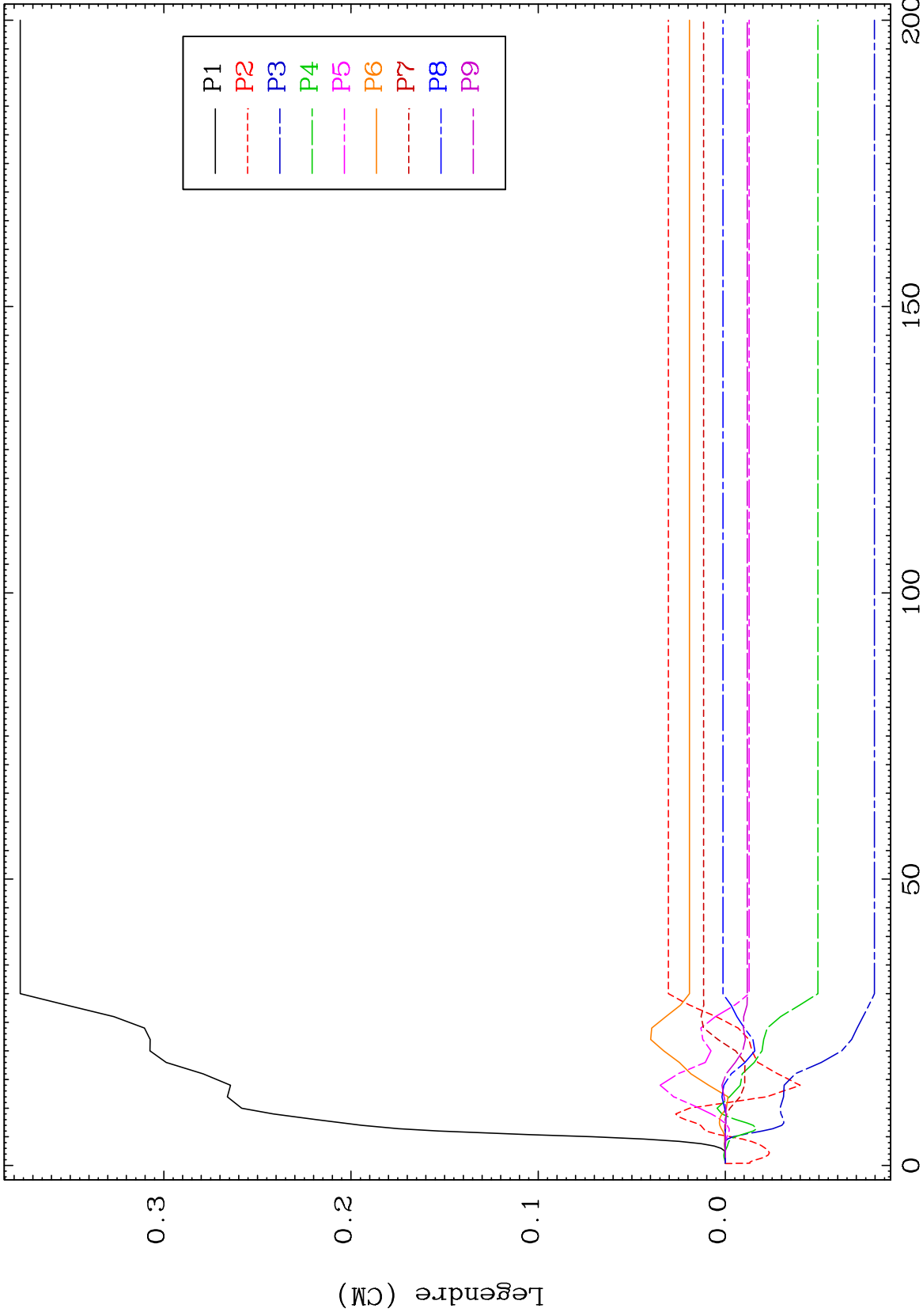
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



47

Incident Energy (MeV)

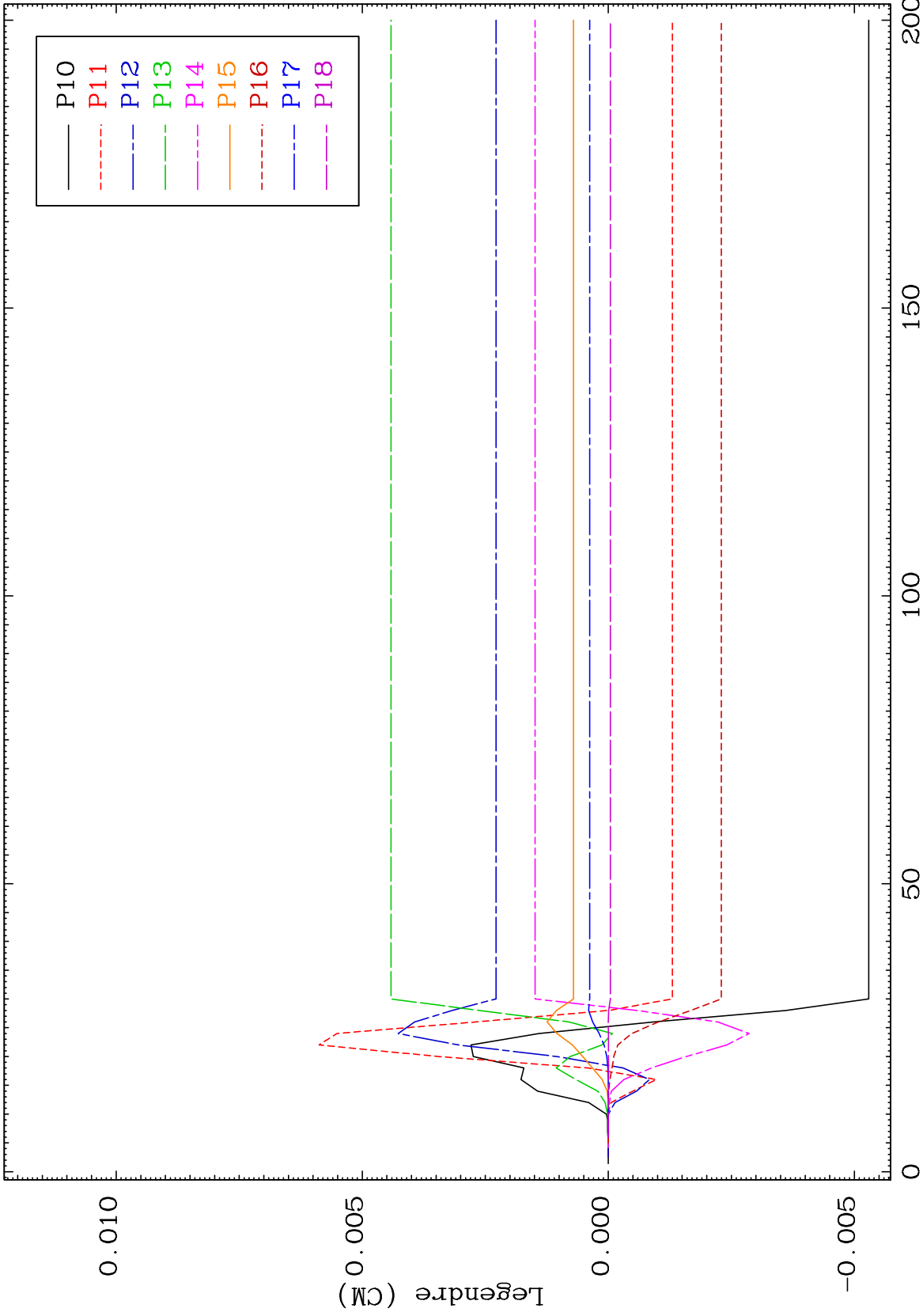
63-Eu-153



MAT 6331

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

63-Eu-153



48

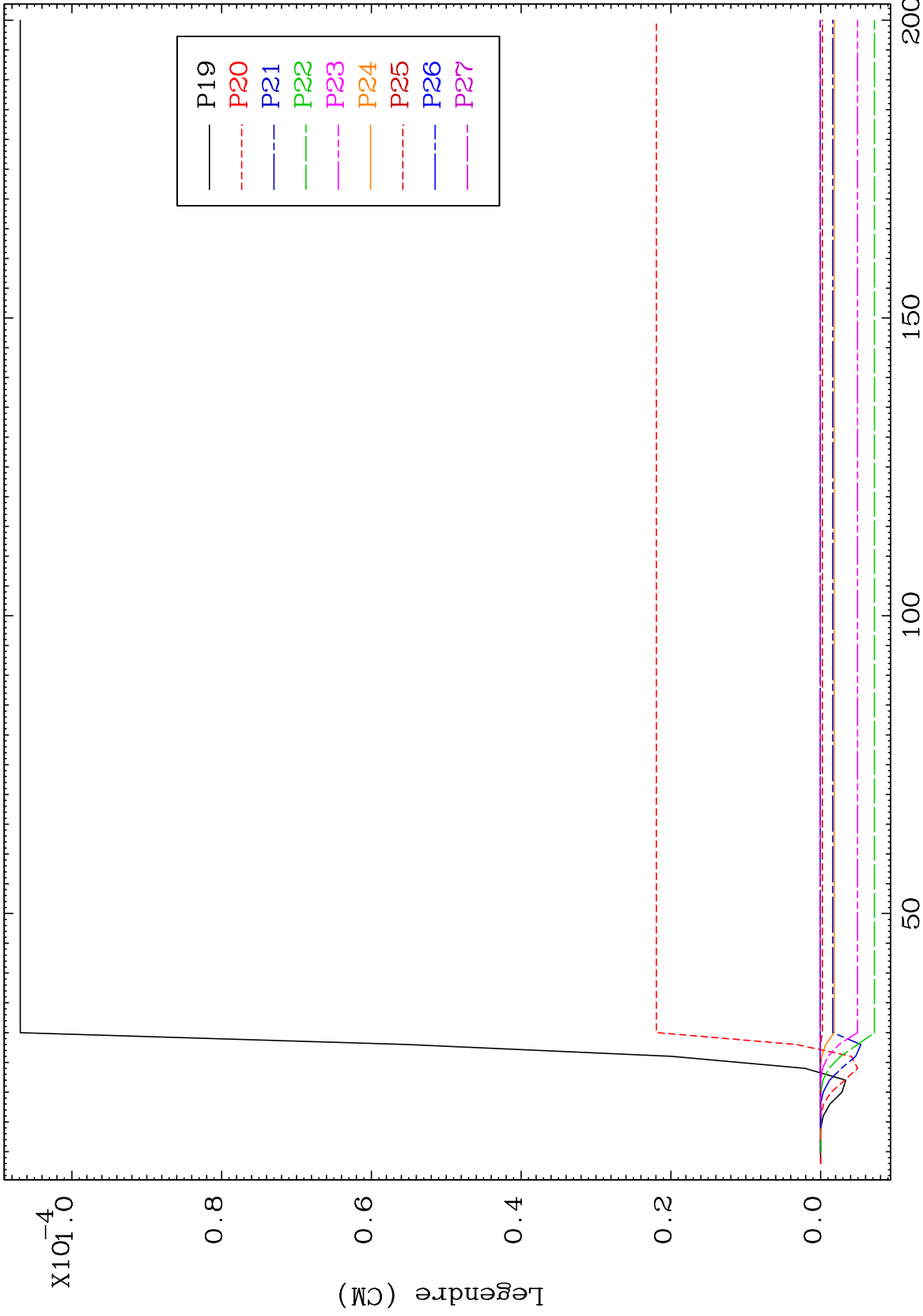
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



49

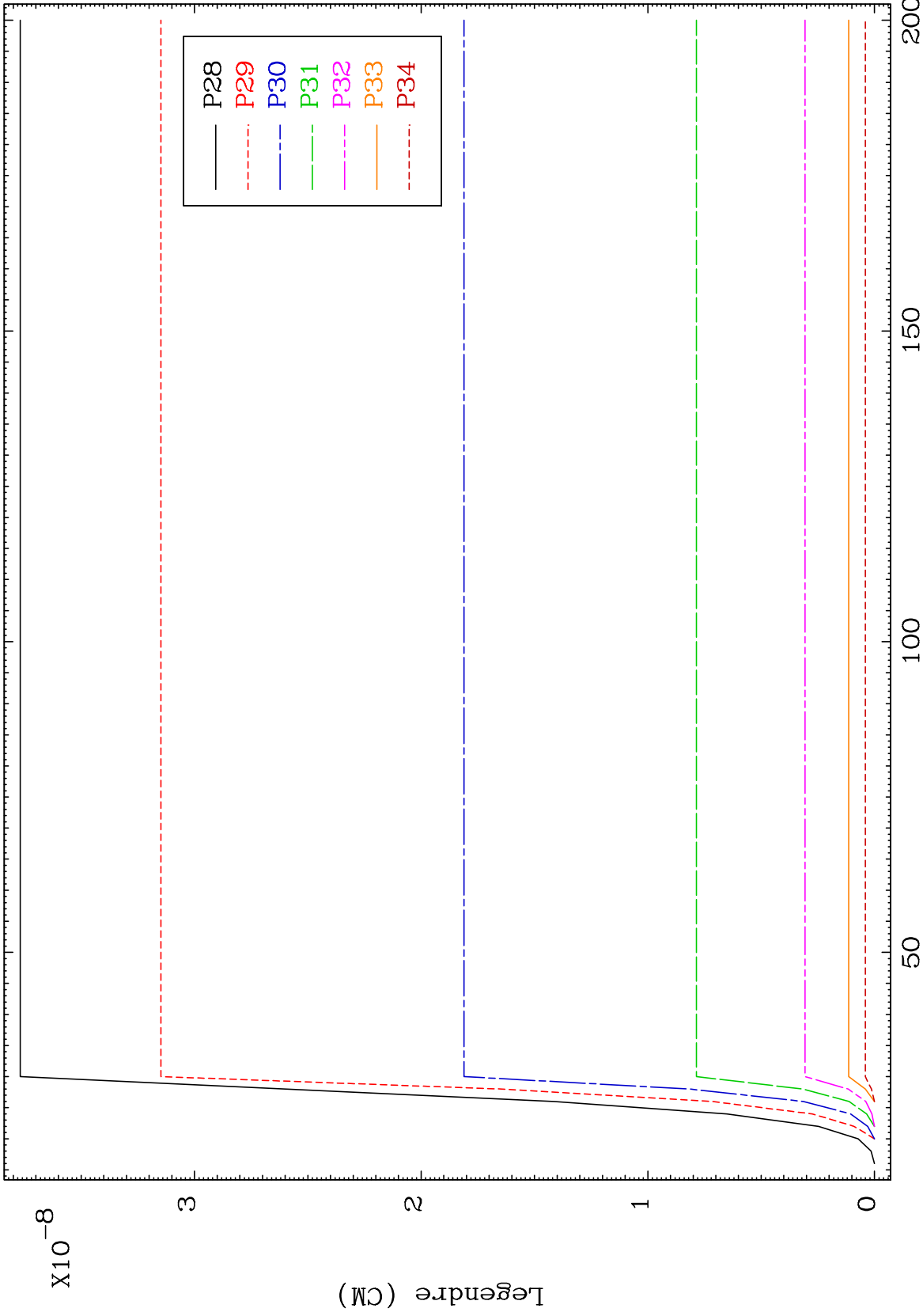
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



50

50

100

150

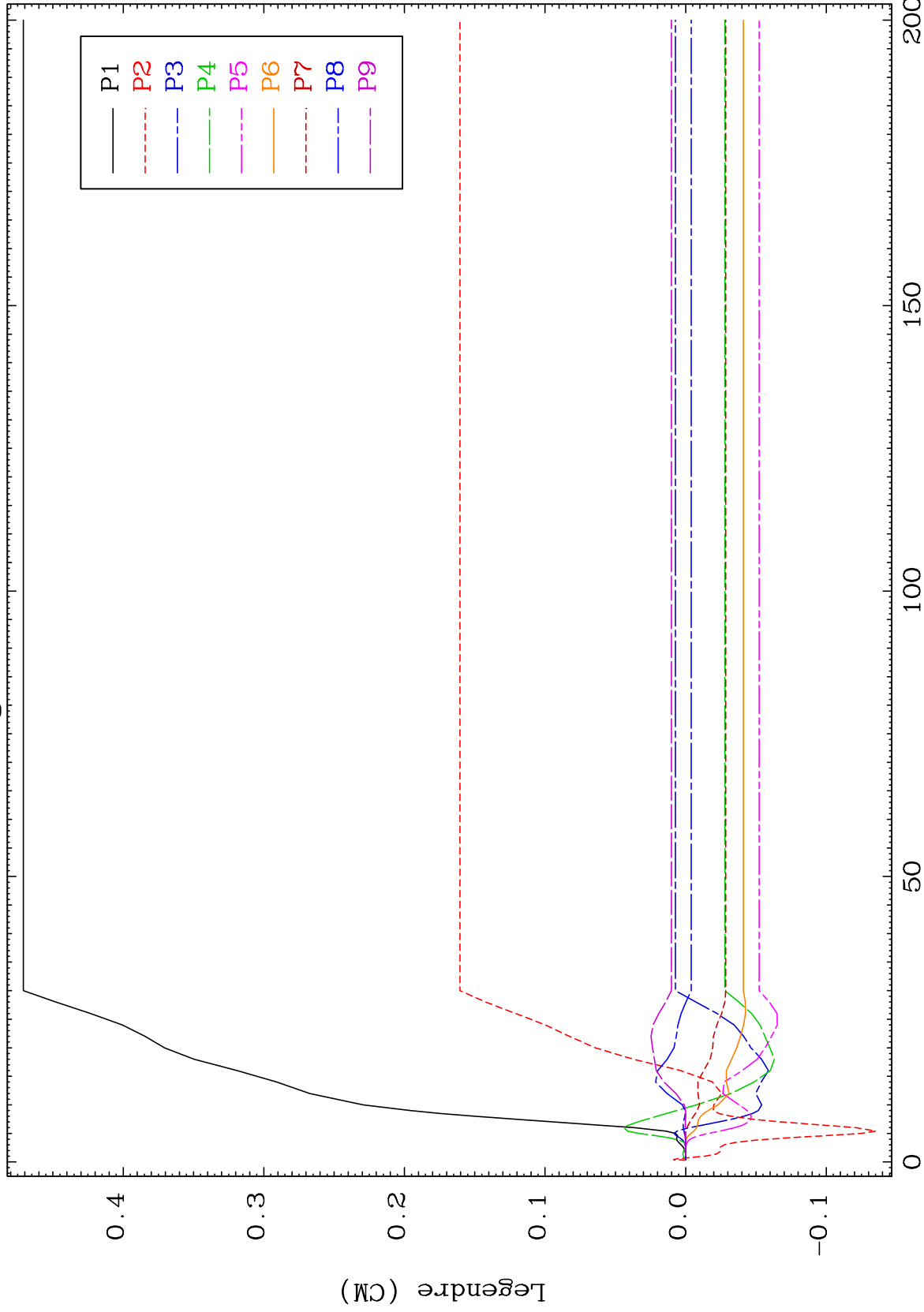
200

63-Eu-153

MAT 6331

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

63-Eu-153



51

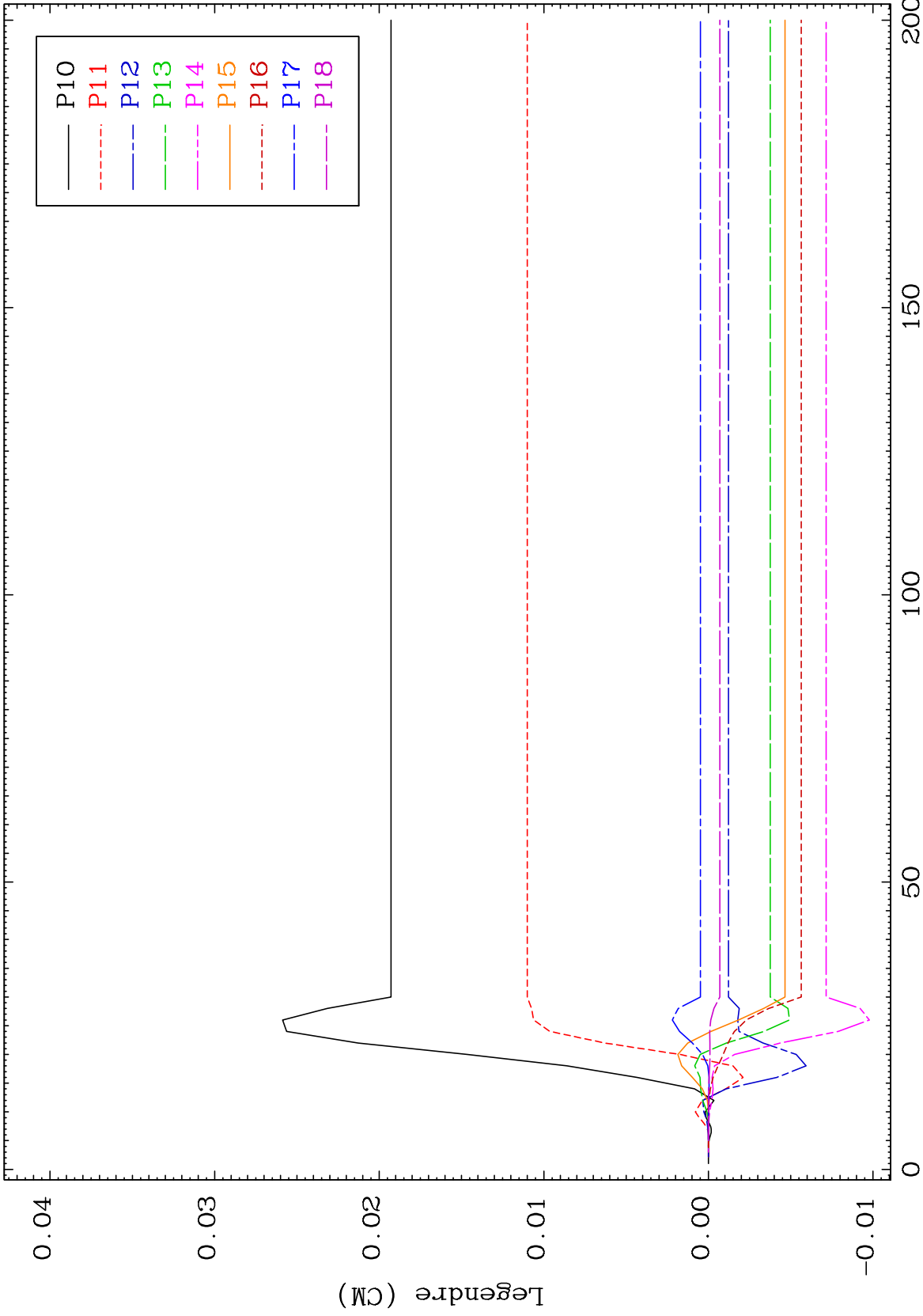
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



52

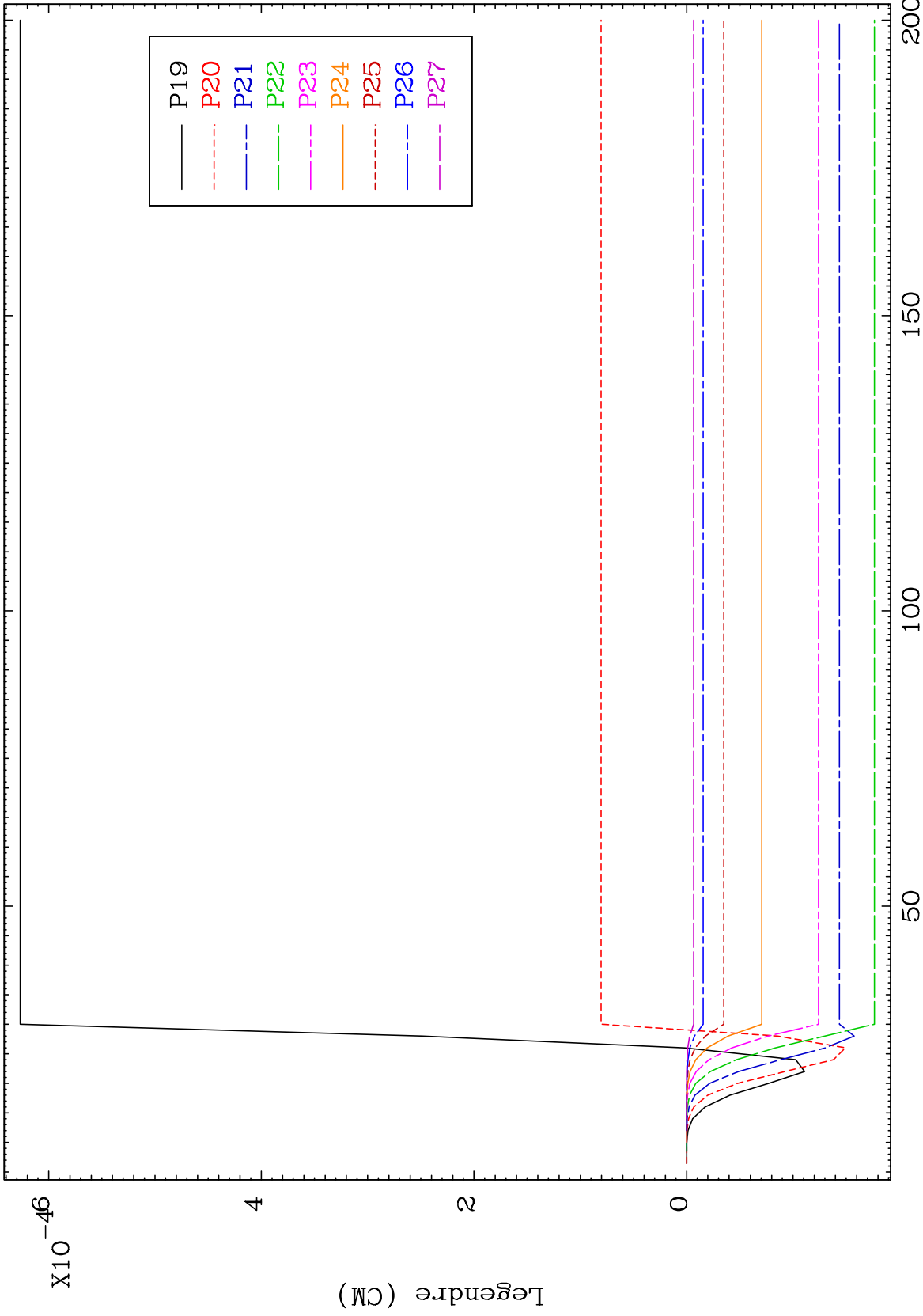
Incident Energy (MeV)

63-Eu-153

MAT 6331

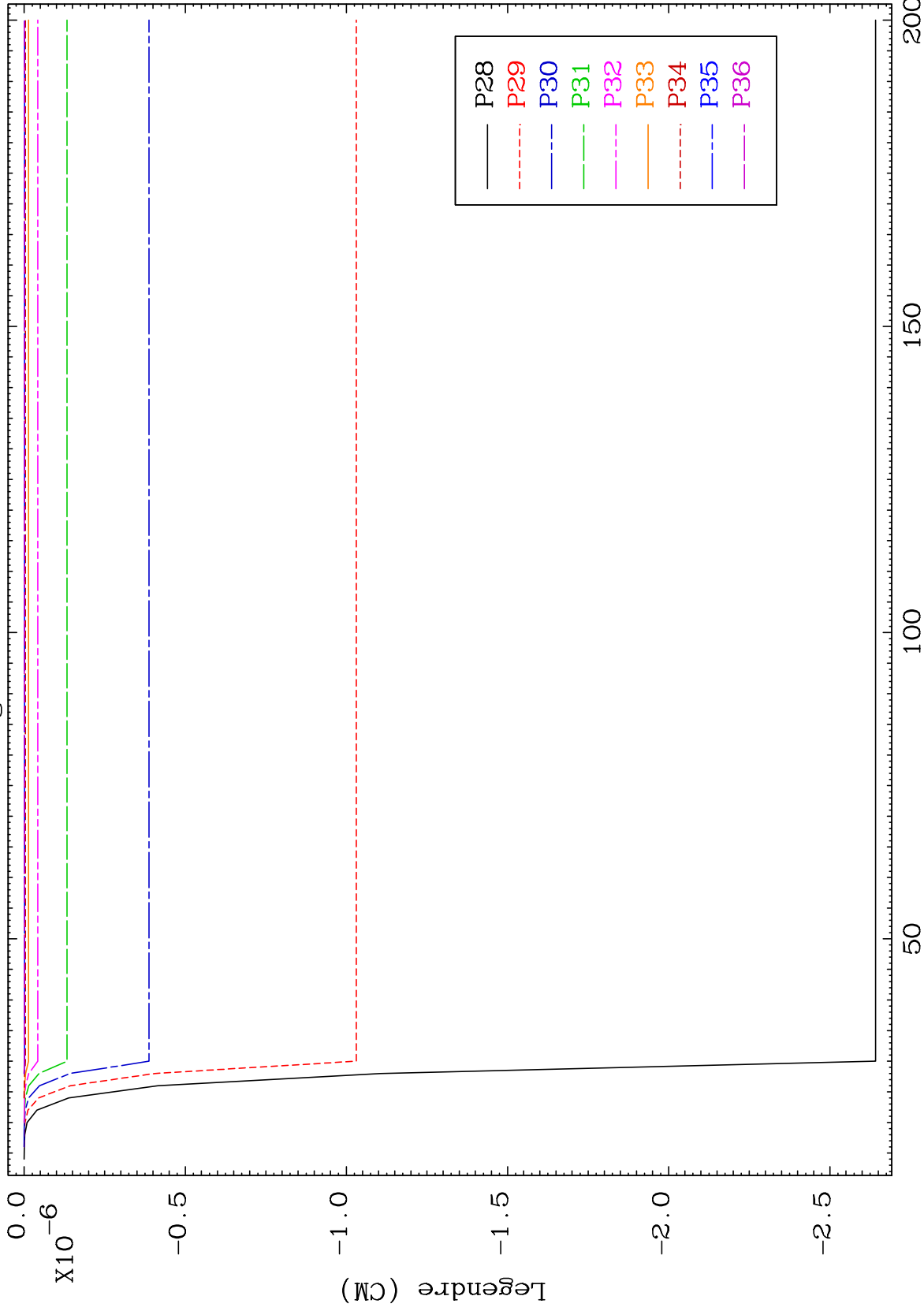
MT= 60 (n,n') Level  
Legendre Coefficients

63-Eu-153



53

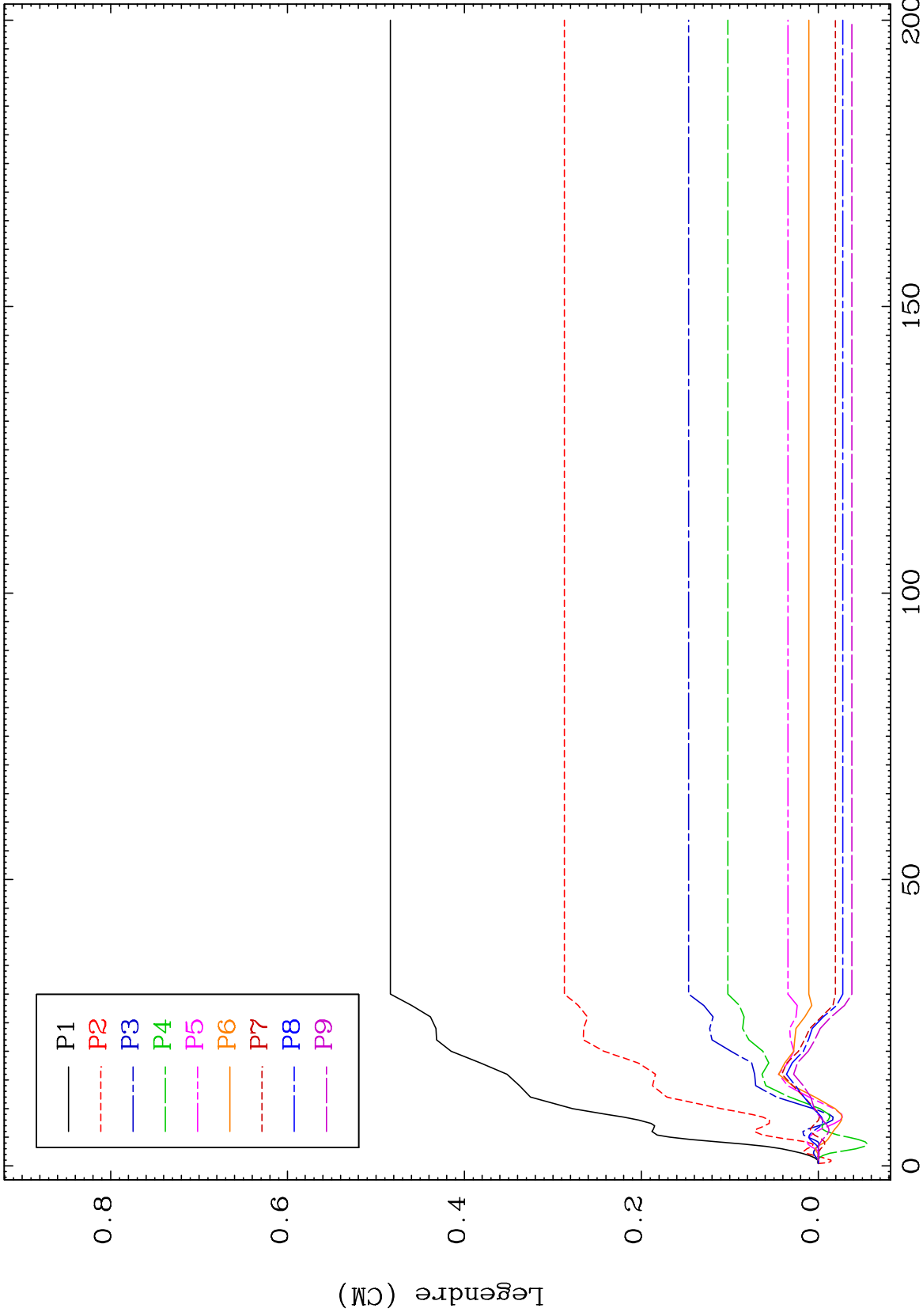
63-Eu-153



MAT 6331

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

63-Eu-153



55

Incident Energy (MeV)

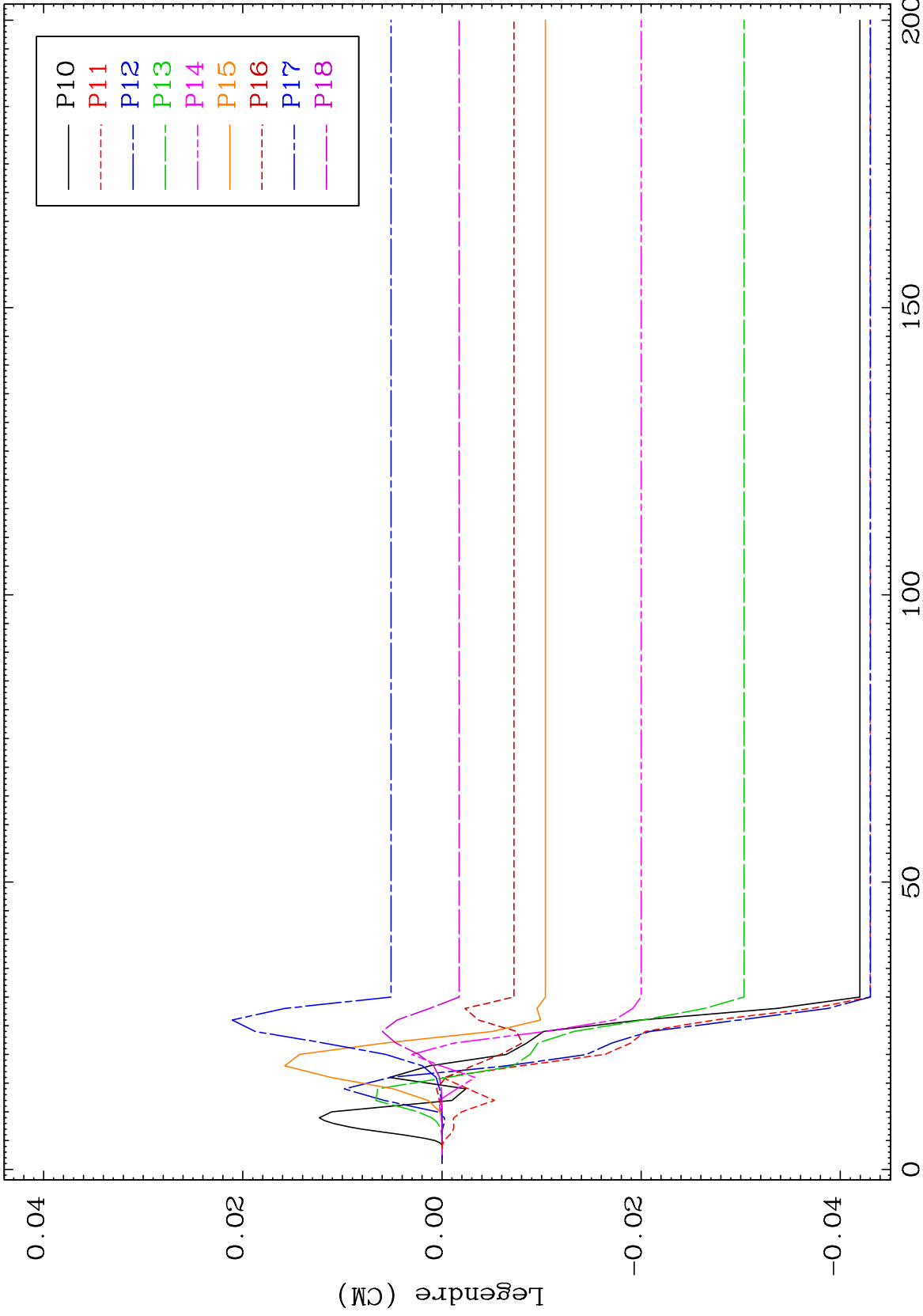
63-Eu-153



MAT 6331

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

63-Eu-153



56

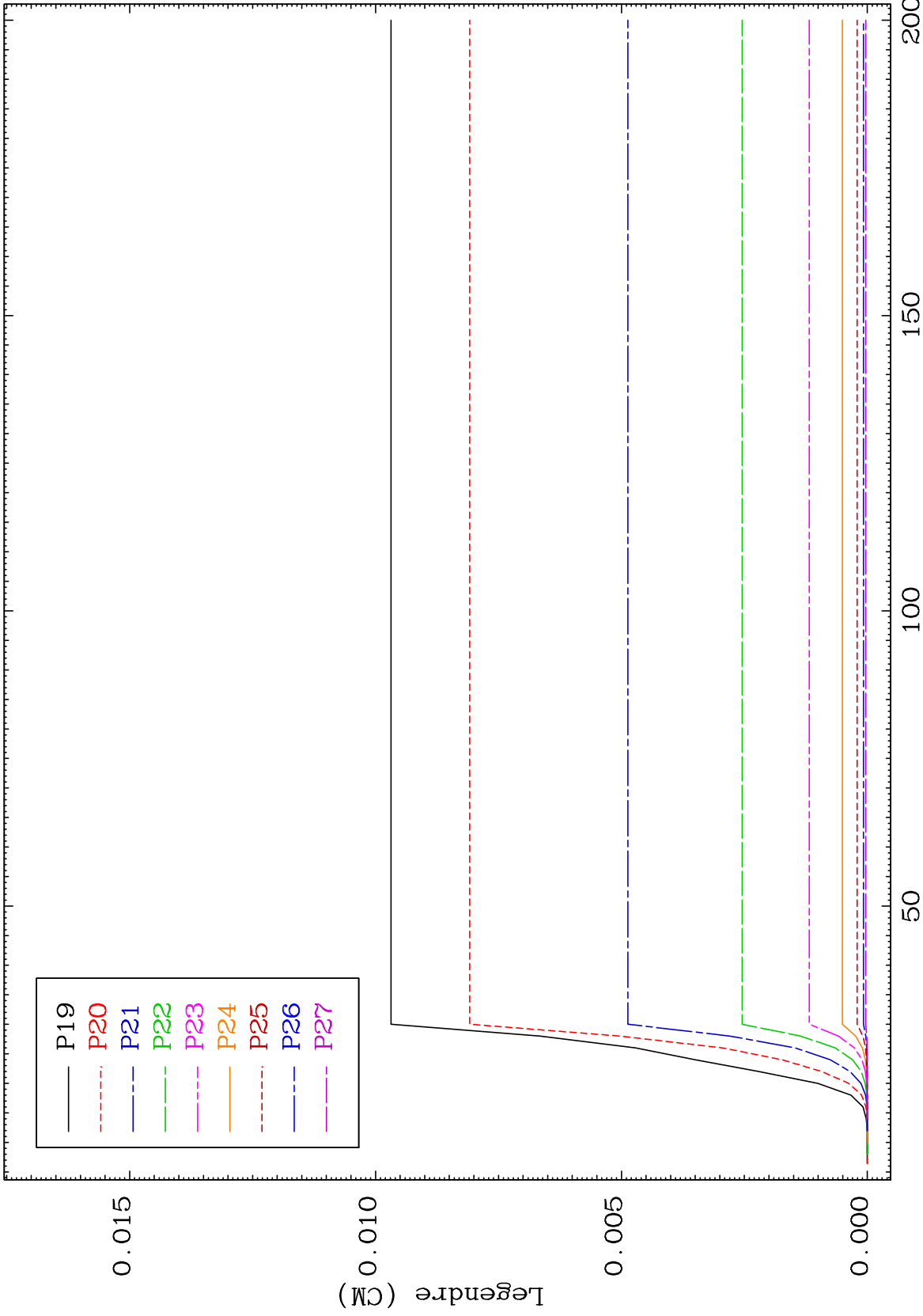
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



57

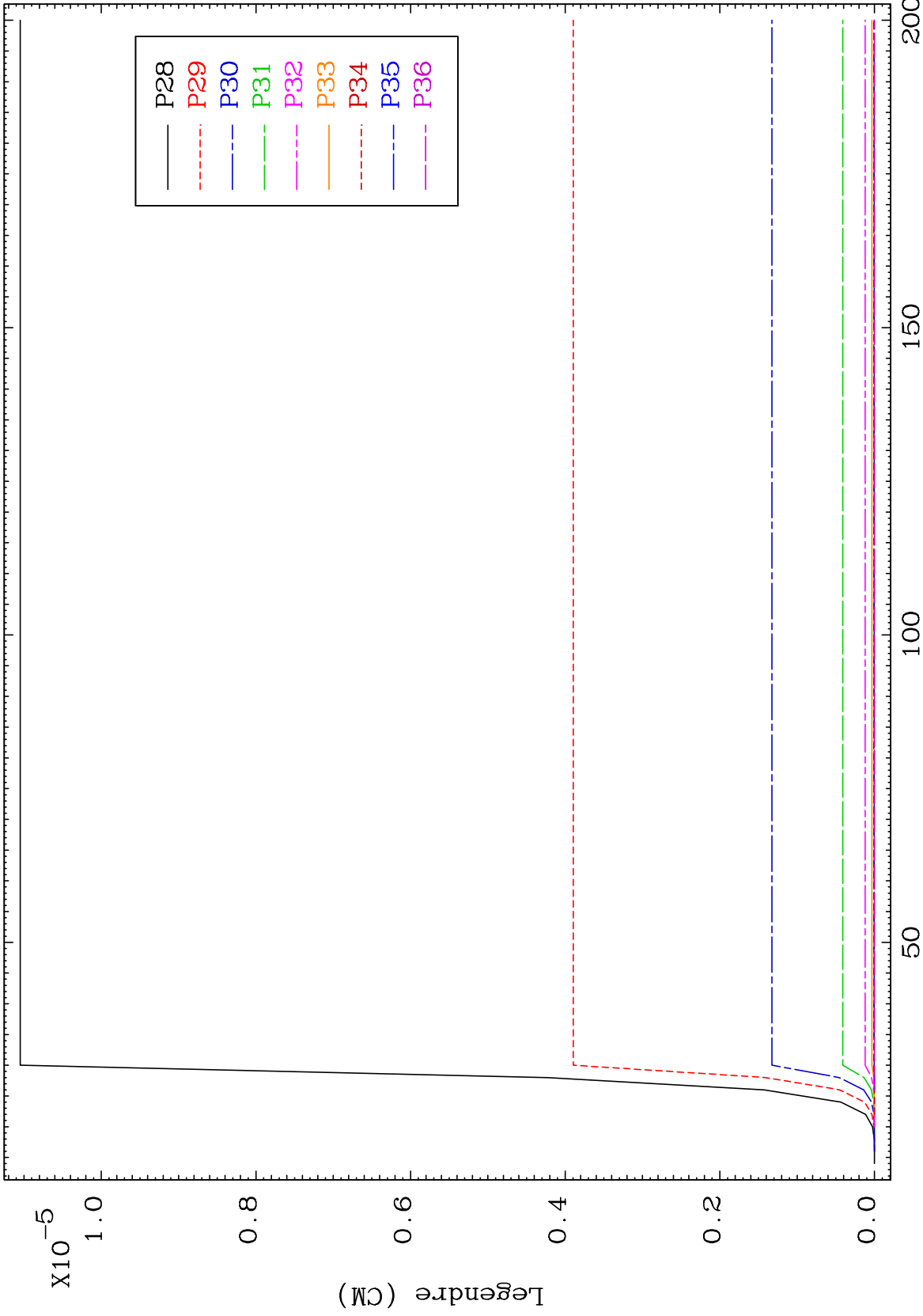
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



58

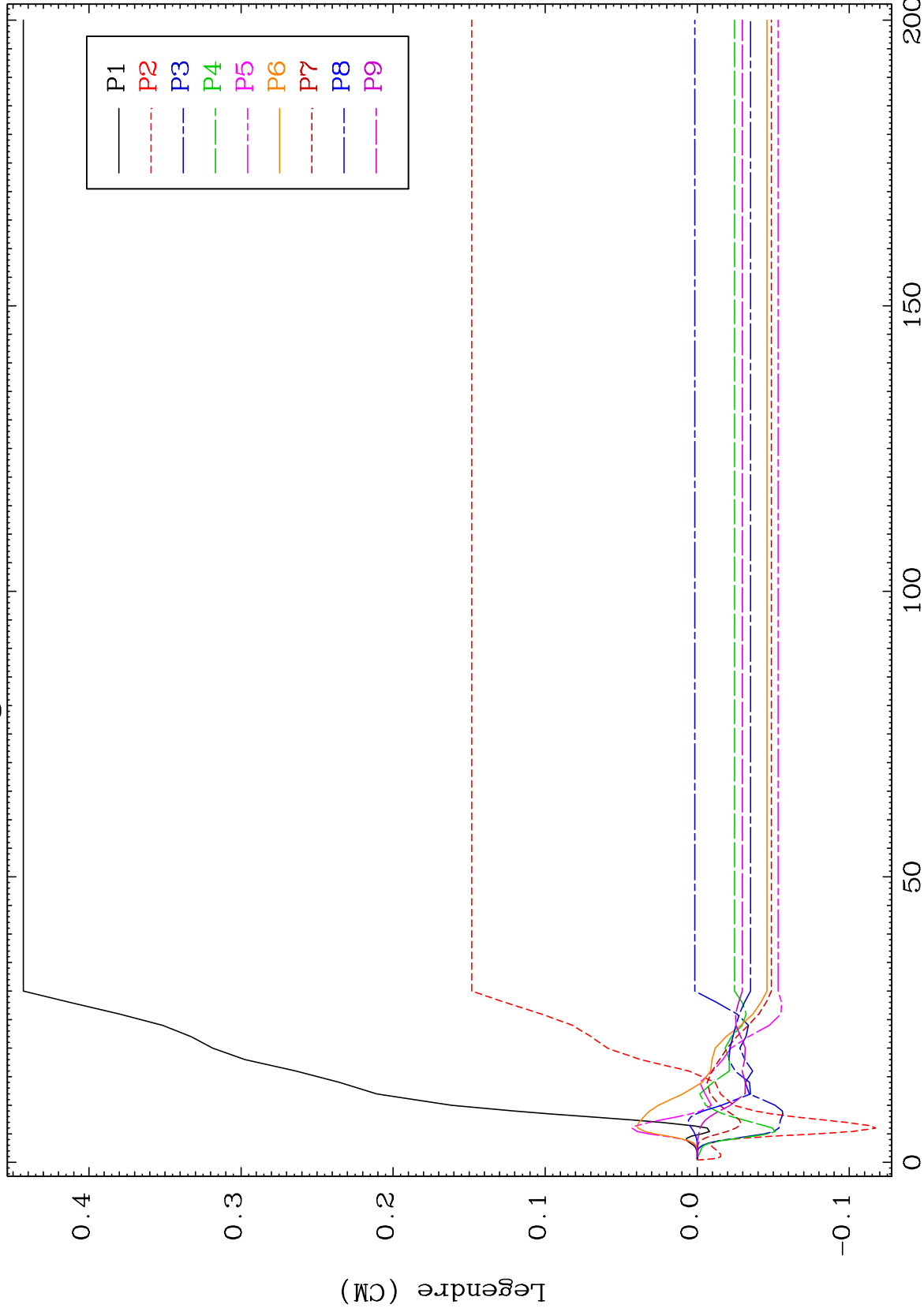
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



59

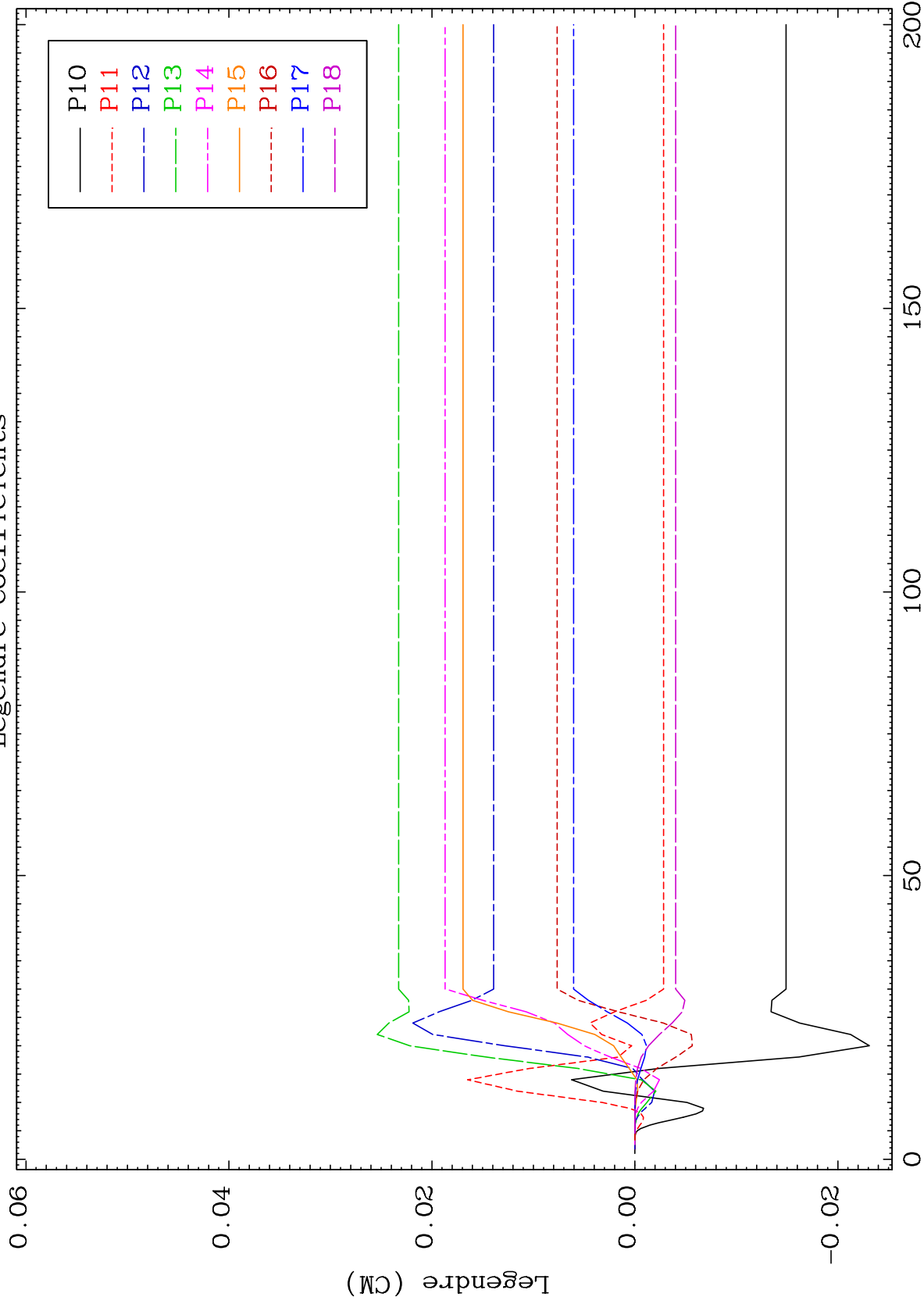
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



63-Eu-153

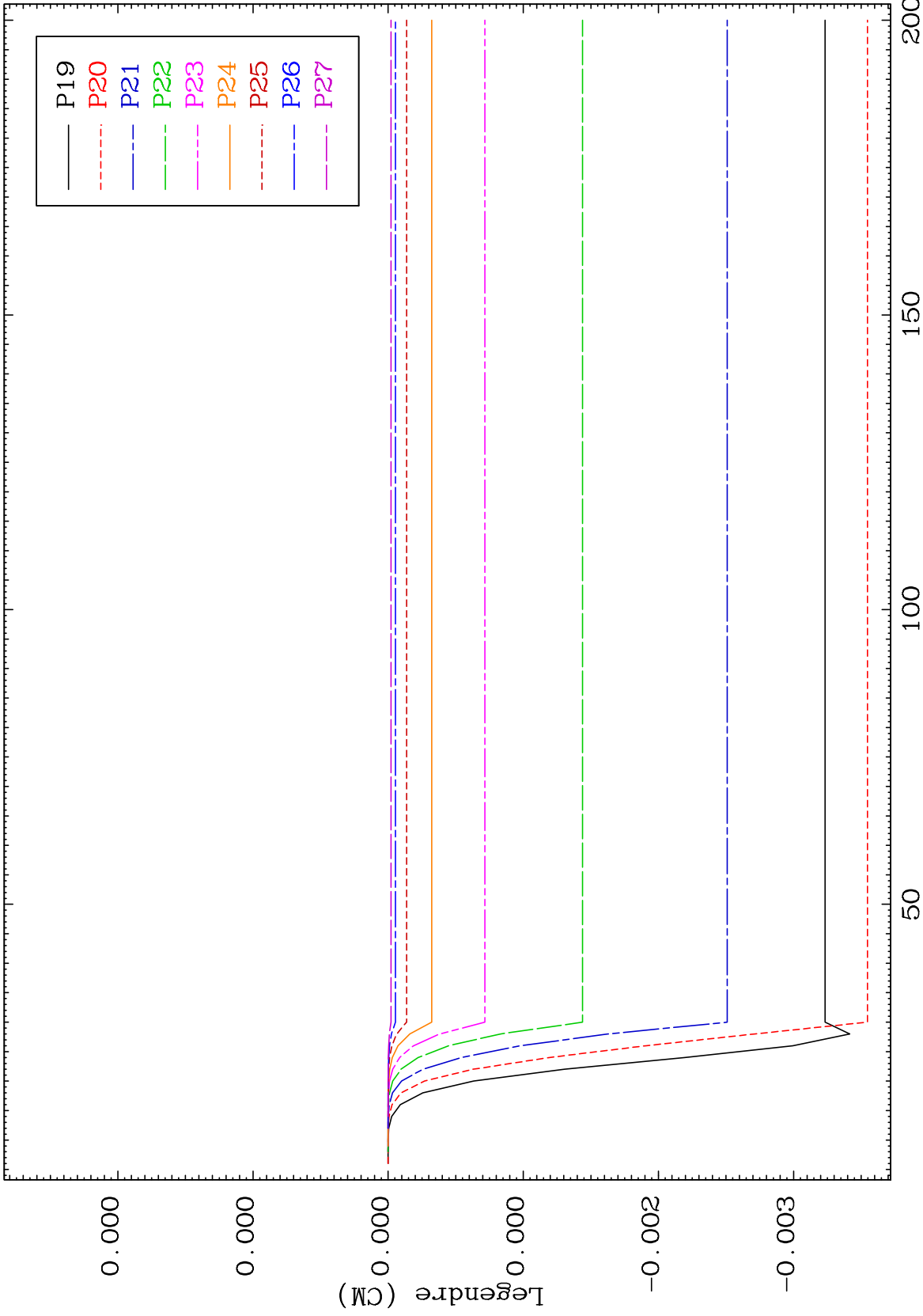
Incident Energy (MeV)

60

MAT 6331

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

63-Eu-153



61

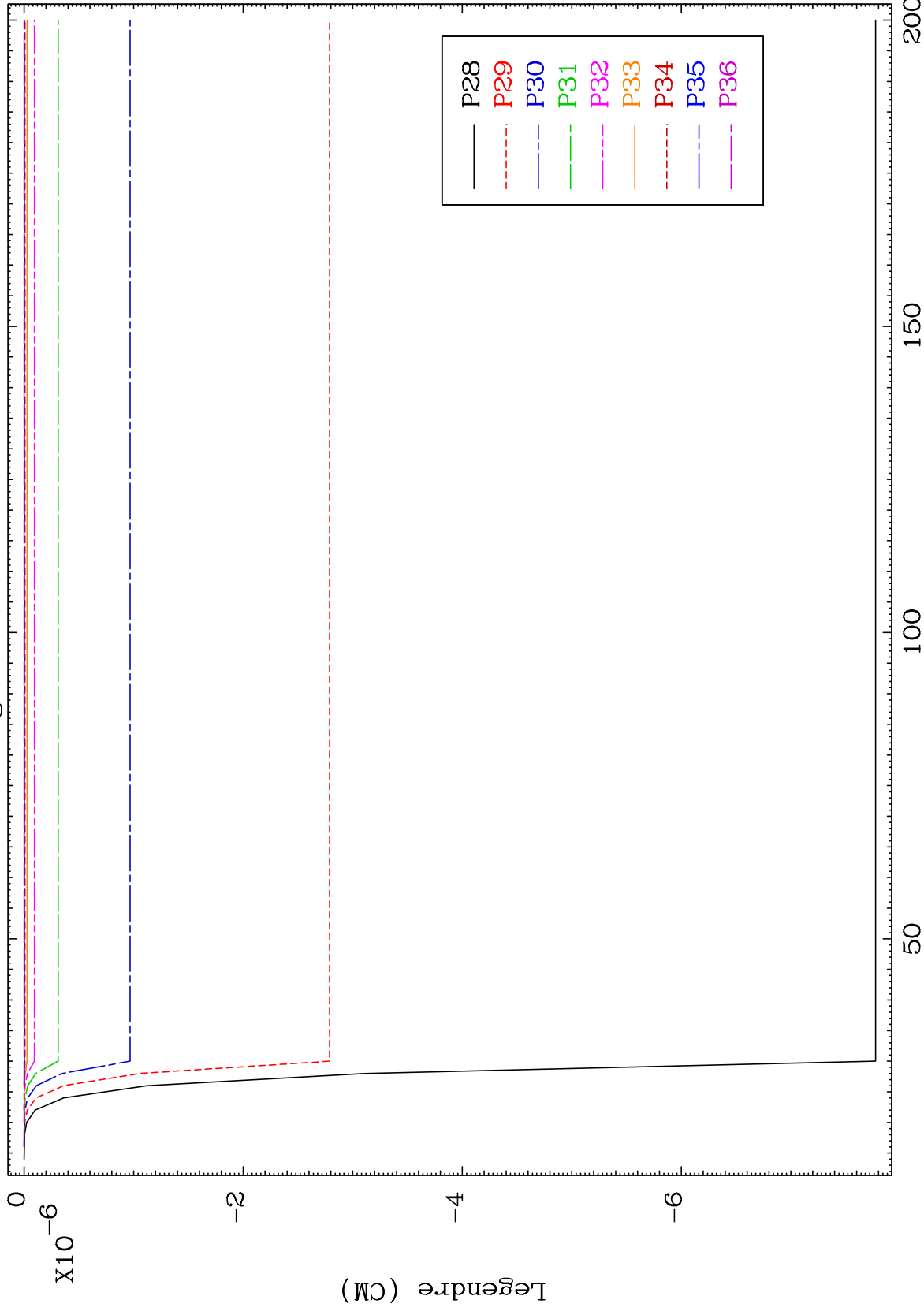
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



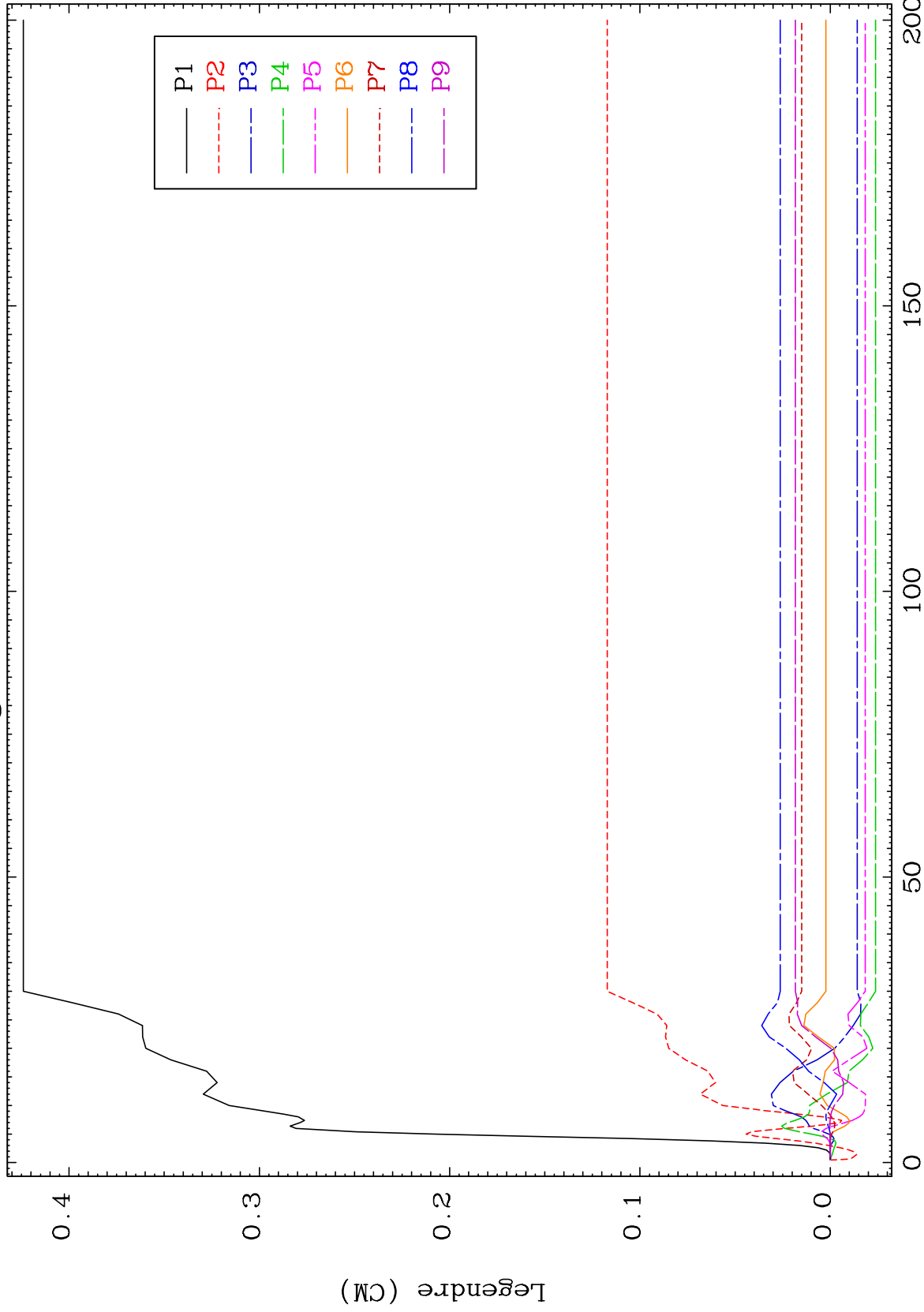
62

63-Eu-153

MAT 6331

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

63-Eu-153



63

Incident Energy (MeV)

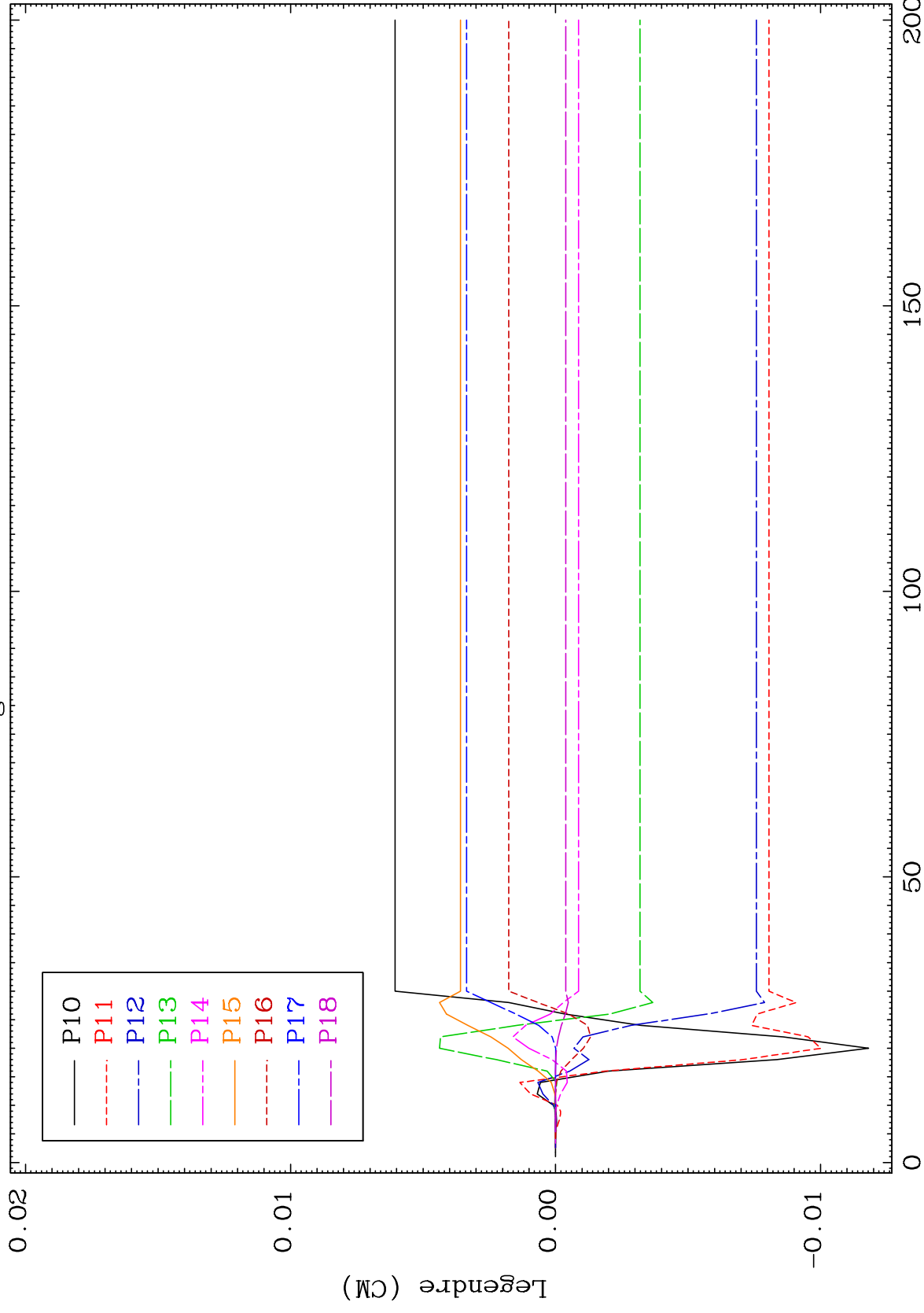
63-Eu-153



MAT 6331

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

63-Eu-153



64

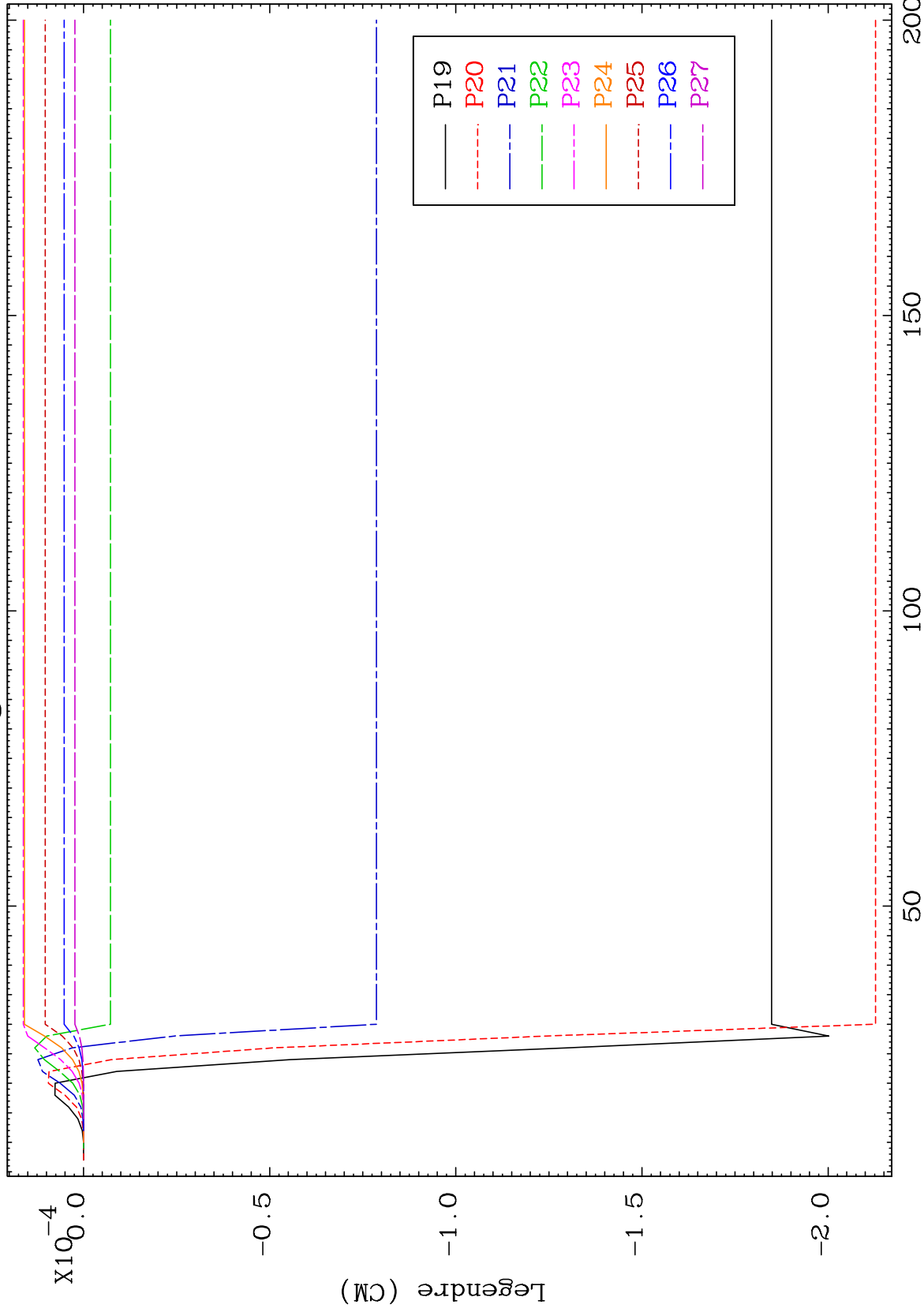
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

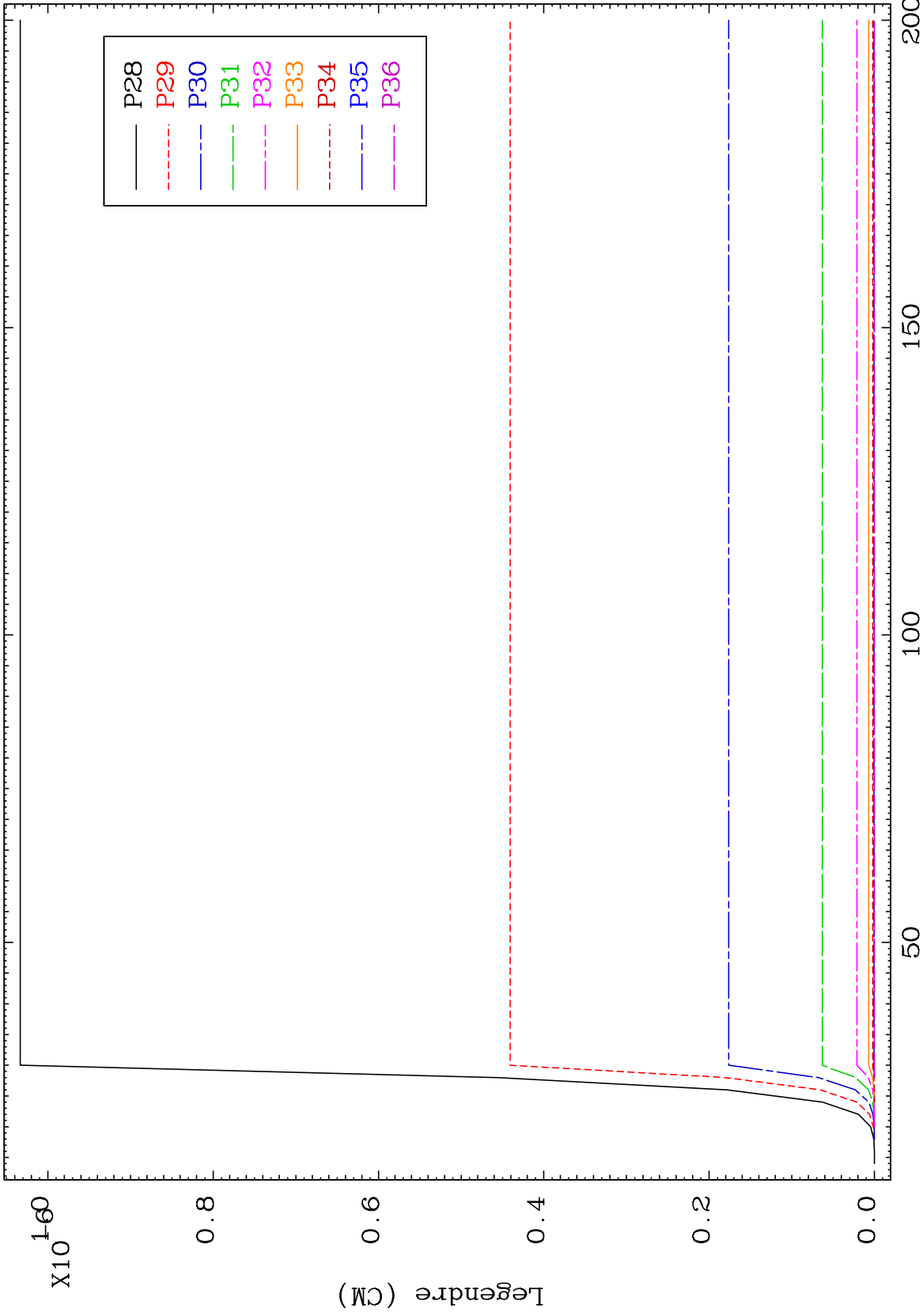
63-Eu-153



65

Incident Energy (MeV)

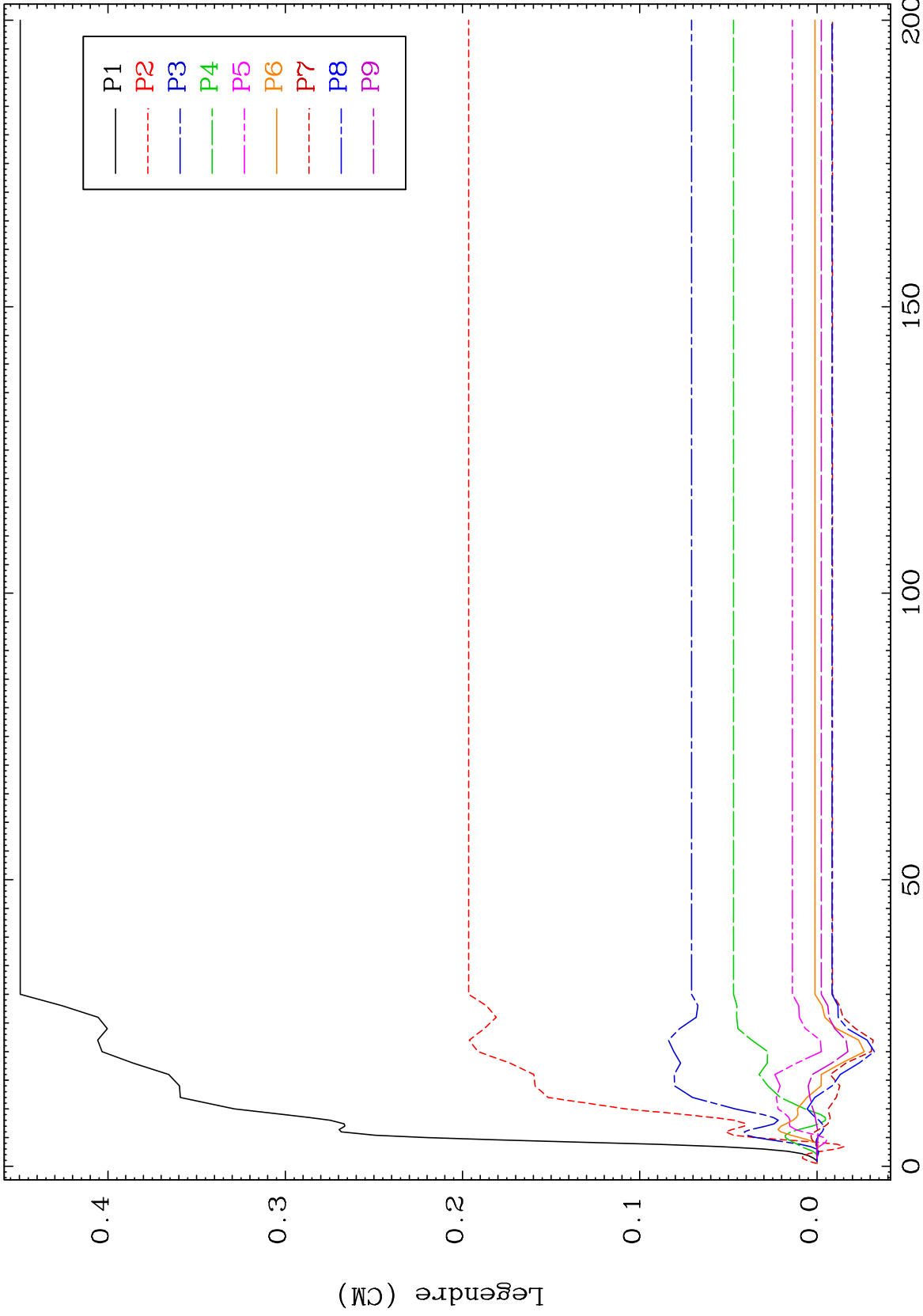
63-Eu-153



MAT 6331

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

63-Eu-153



67

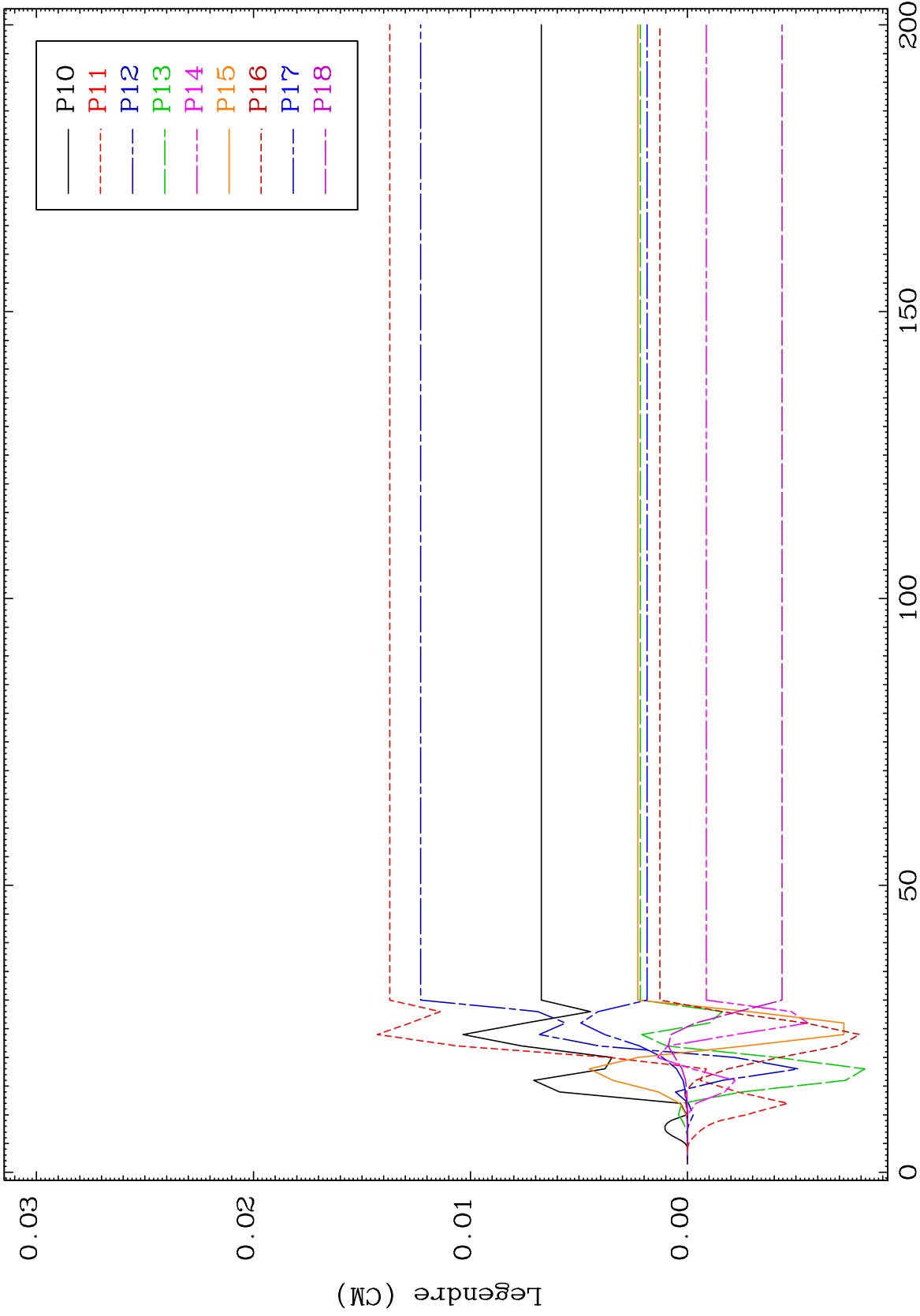
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



68

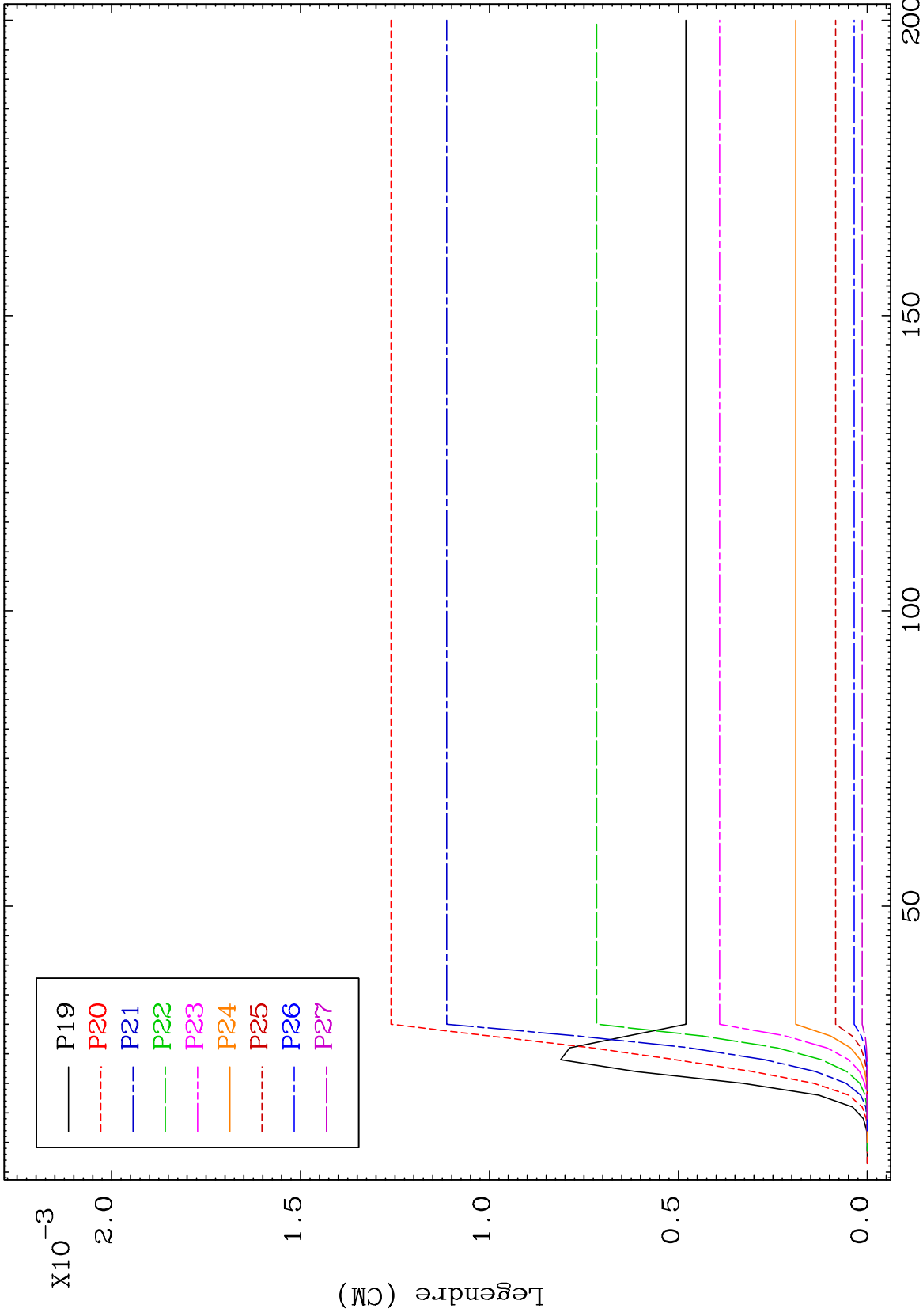
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



69

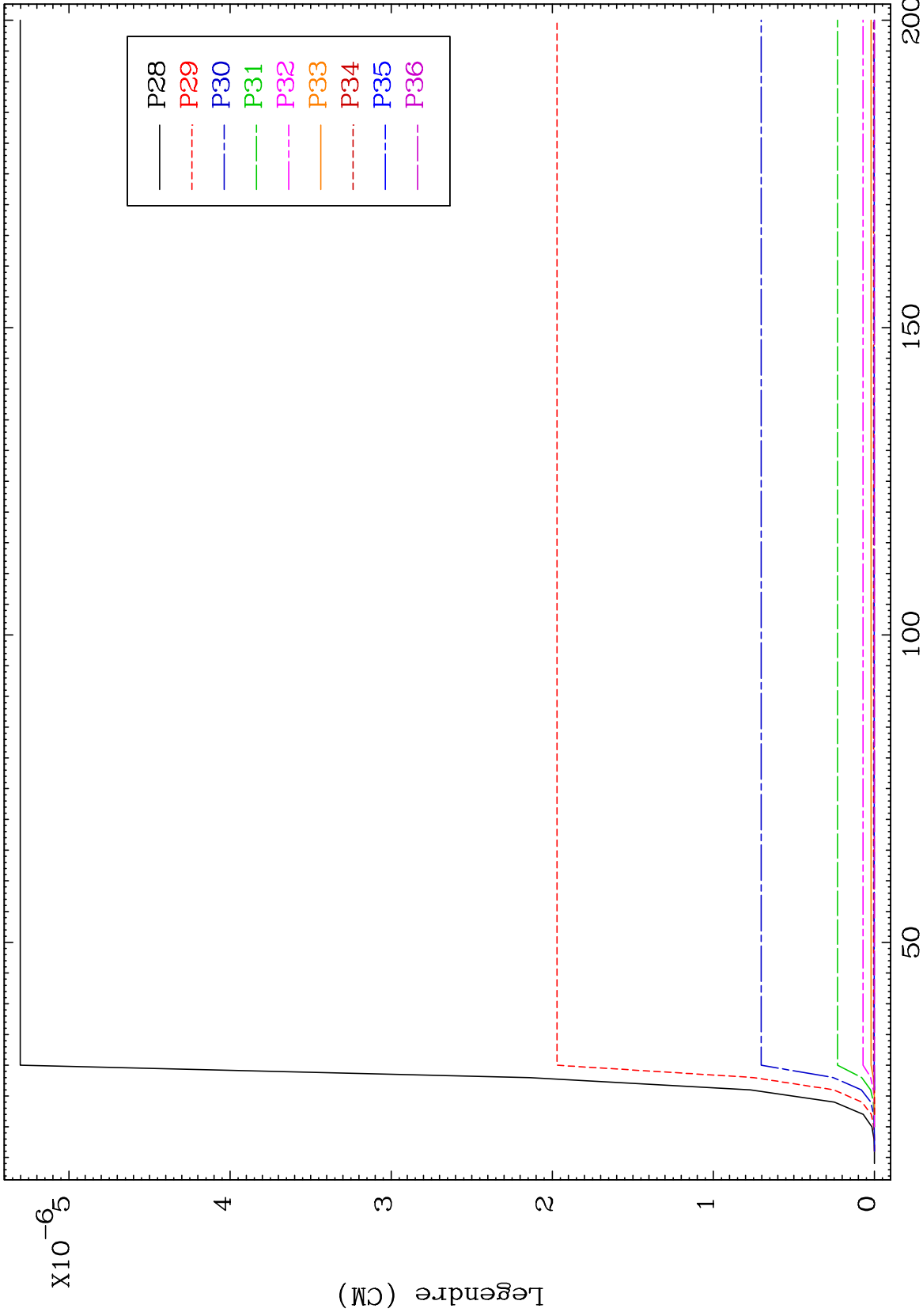
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



70

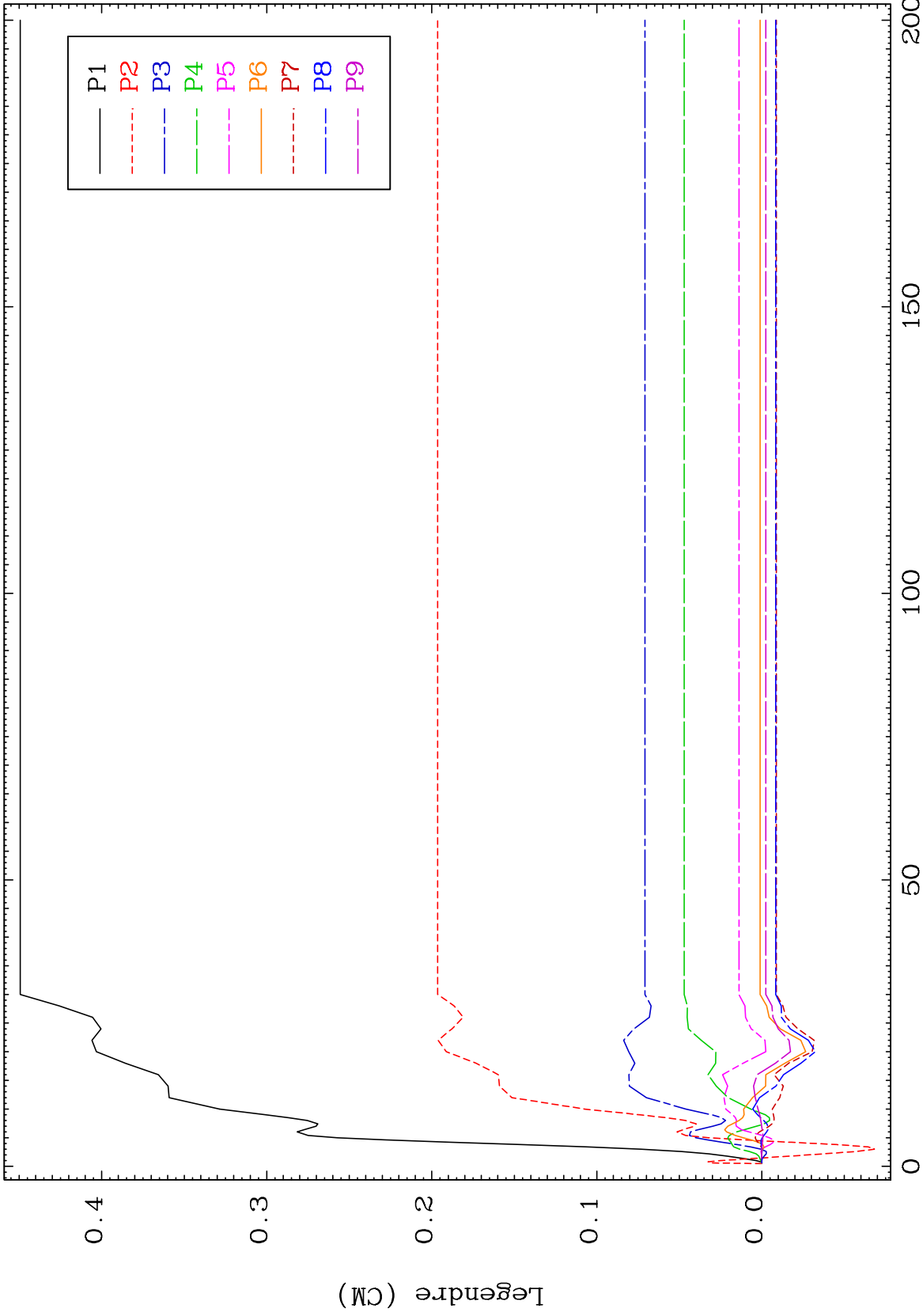
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



71

Incident Energy (MeV)

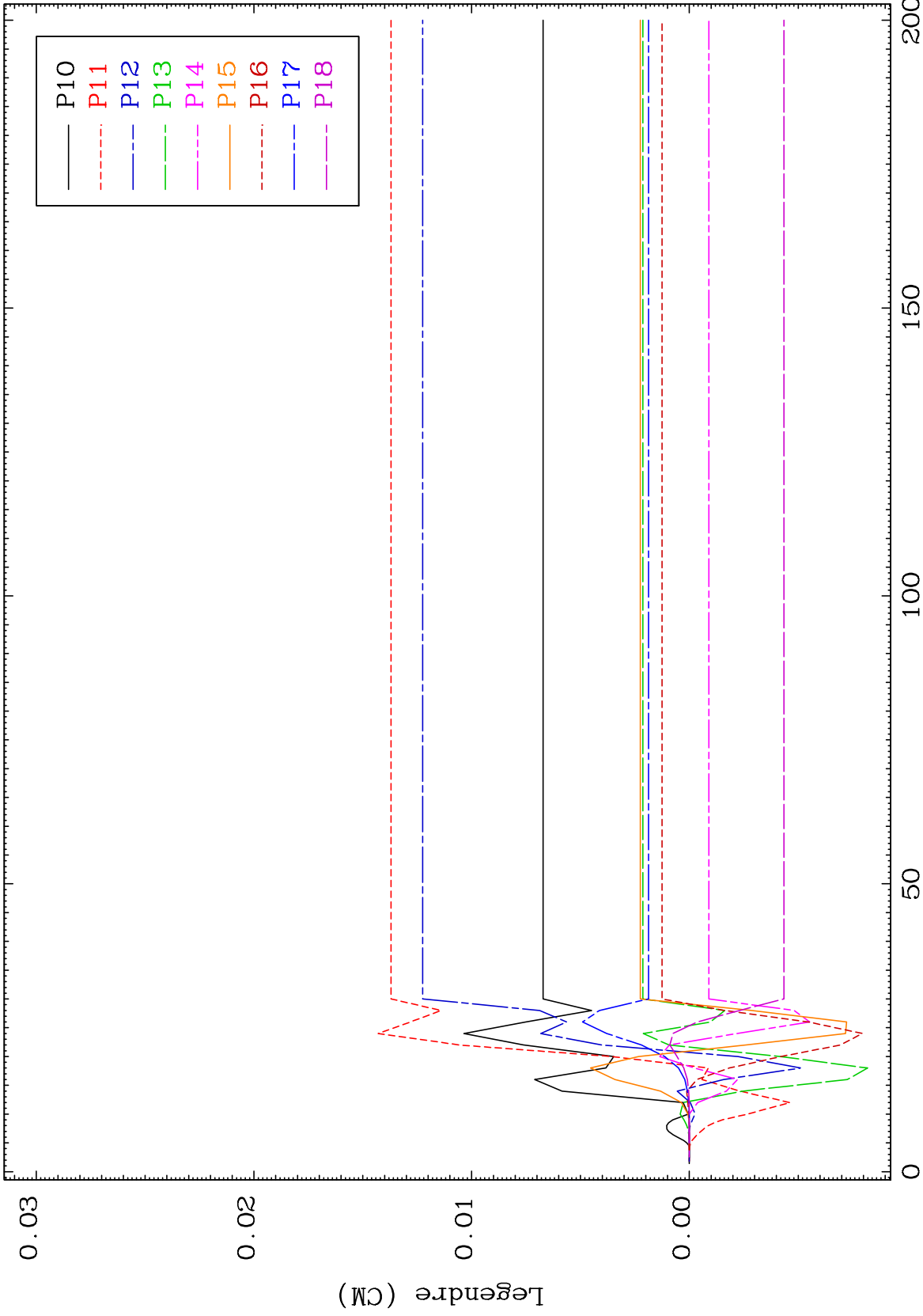
63-Eu-153



MAT 6331

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

63-Eu-153



72

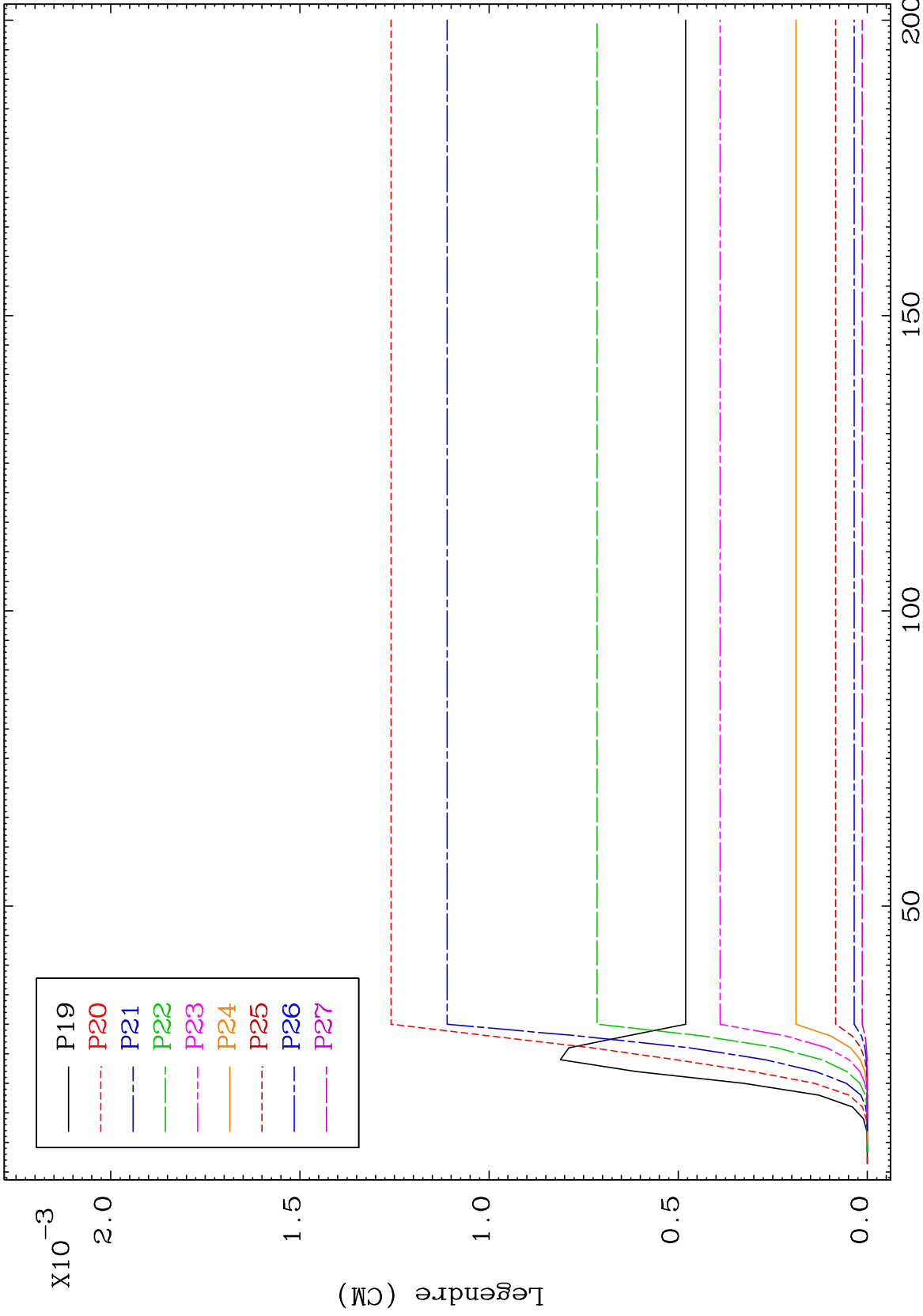
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



73

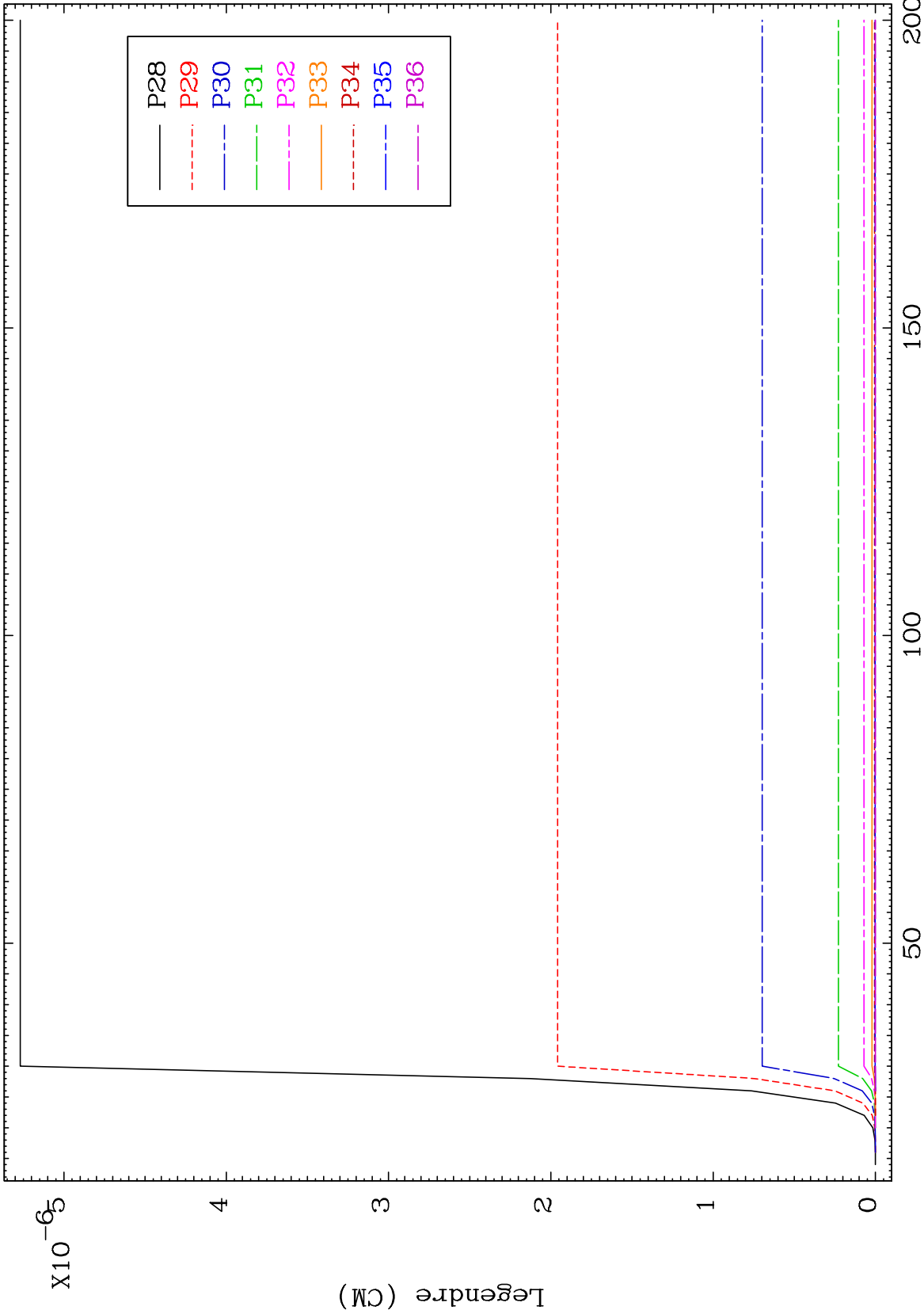
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



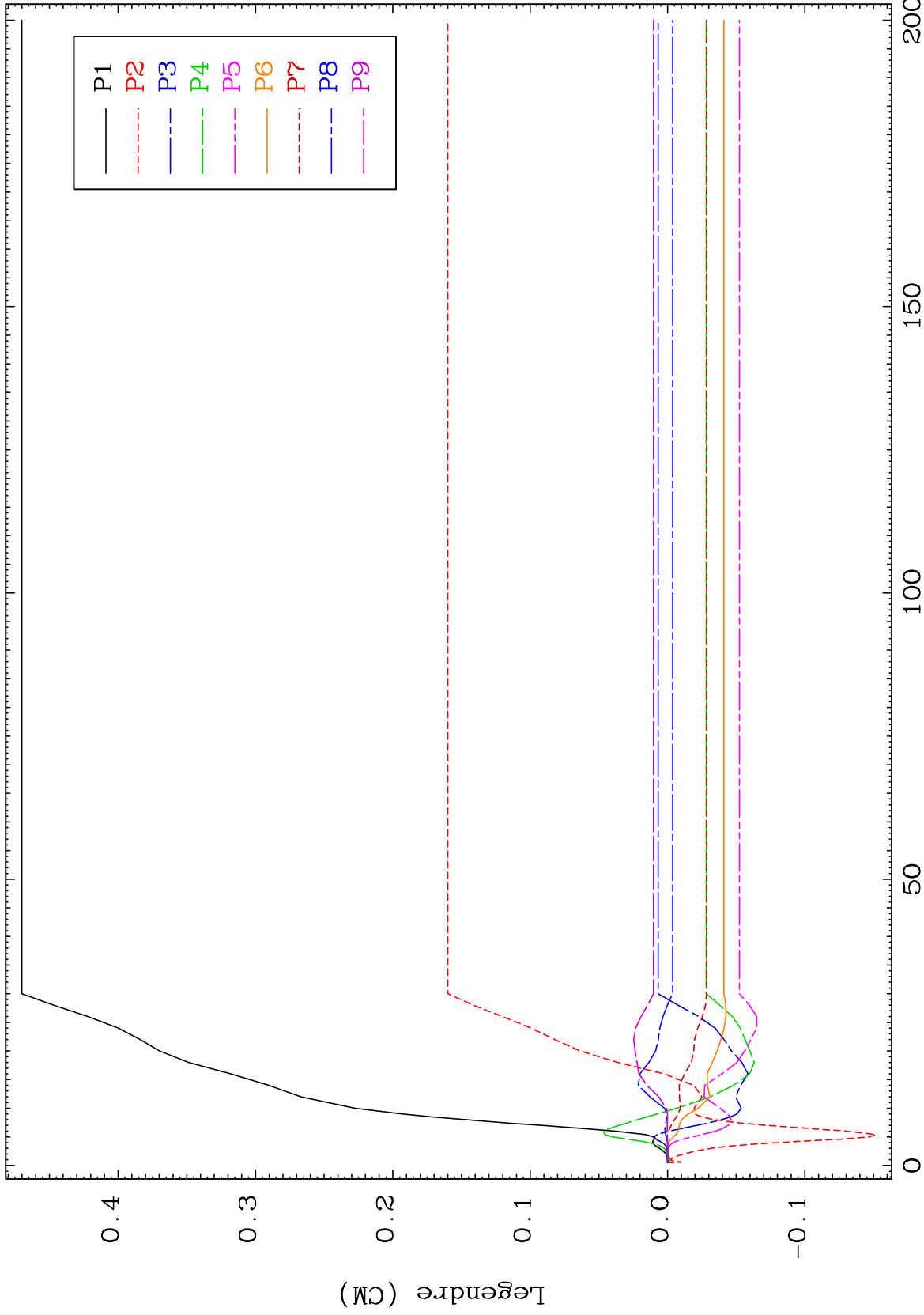
74

63-Eu-153

MAT 6331

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

63-Eu-153



75

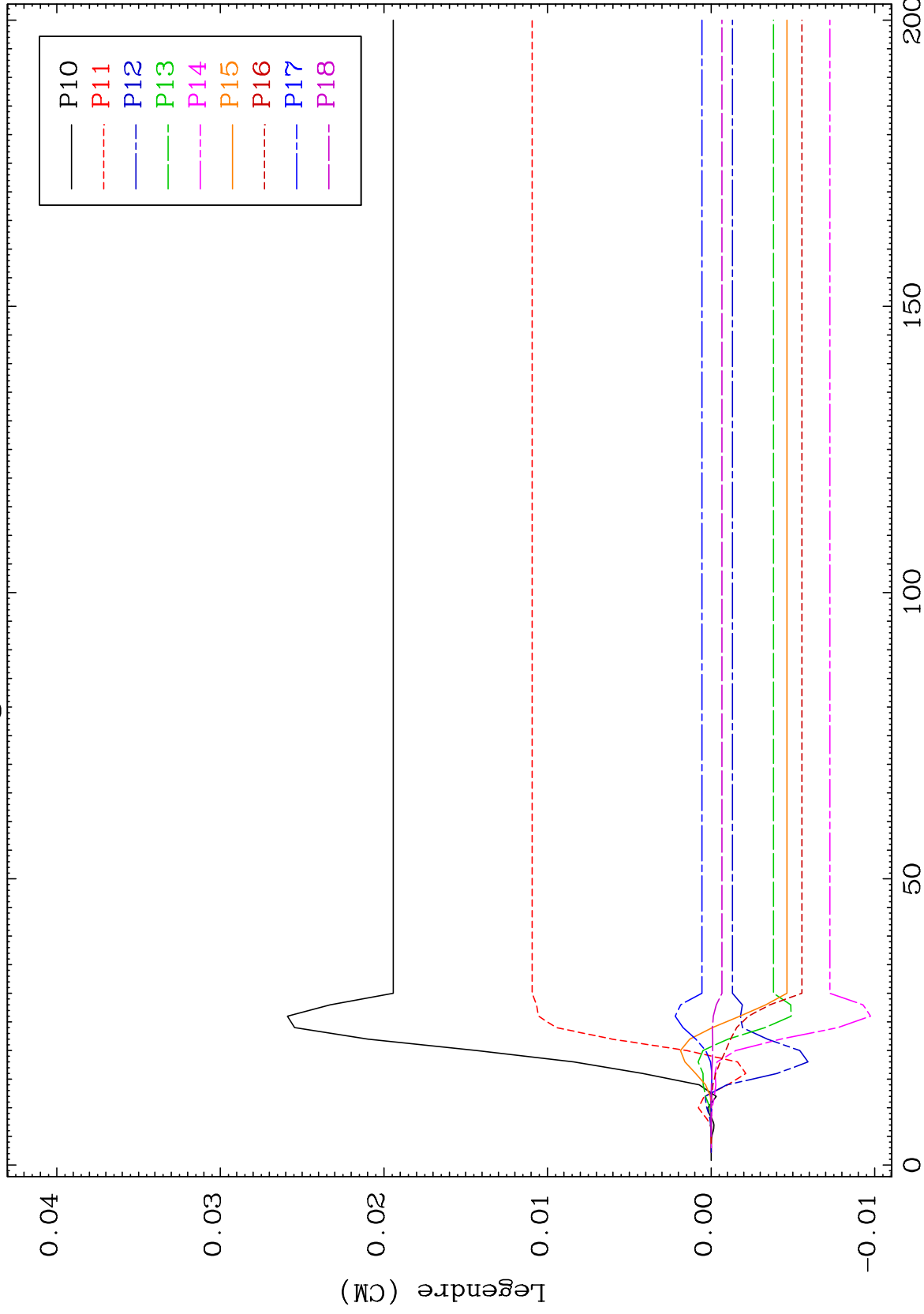
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



76

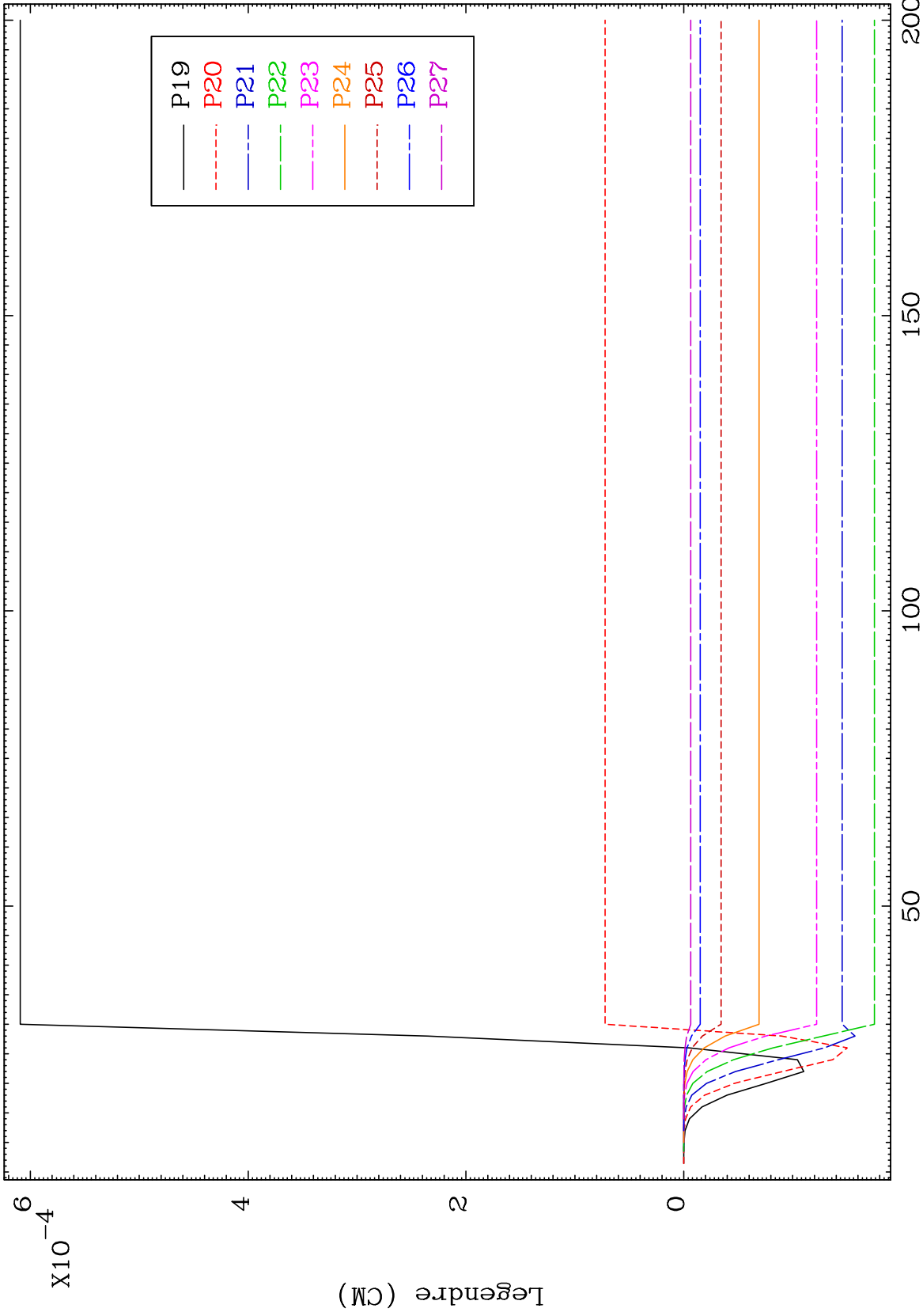
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



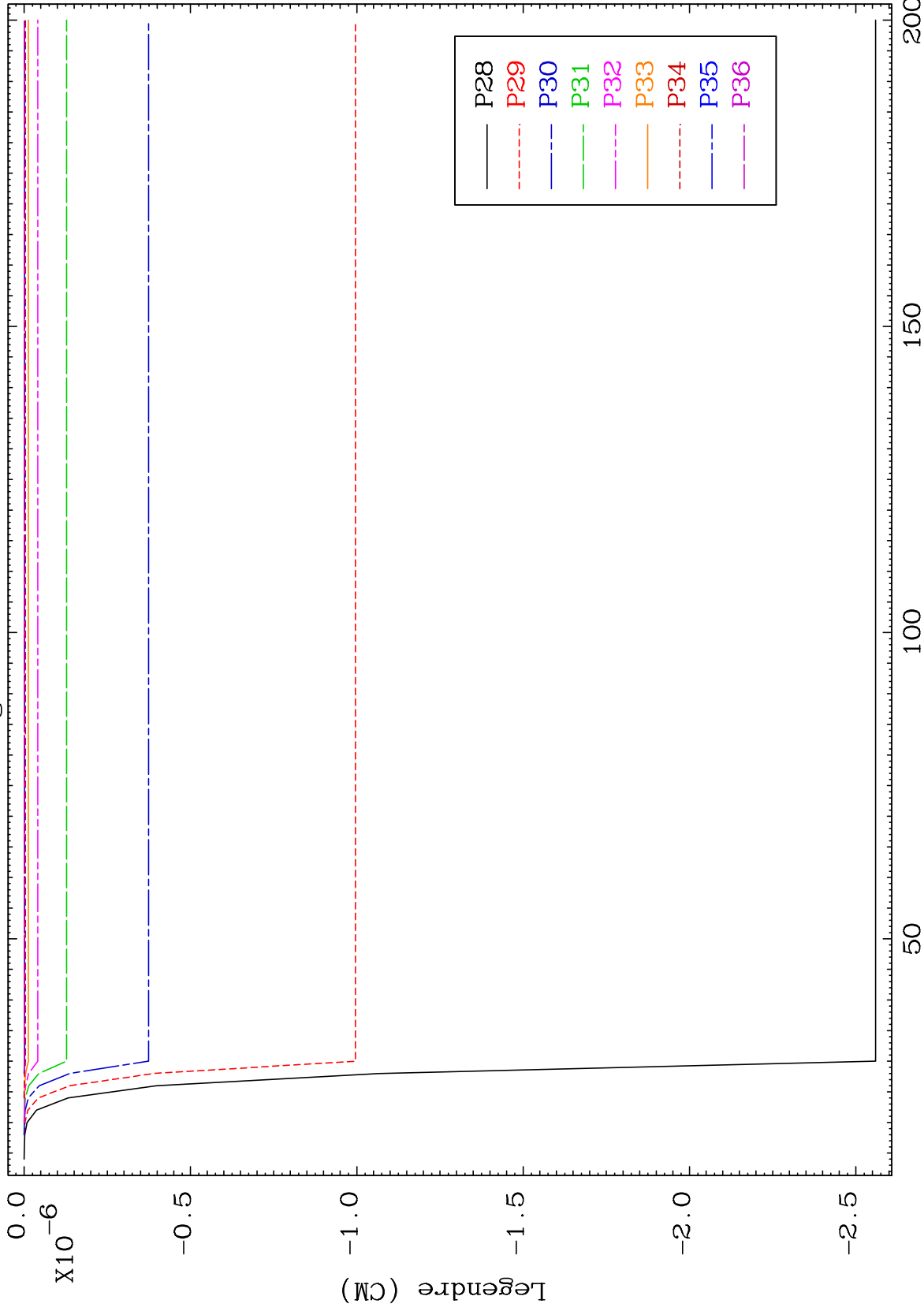
77

63-Eu-153

MAT 6331

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

63-Eu-153



78

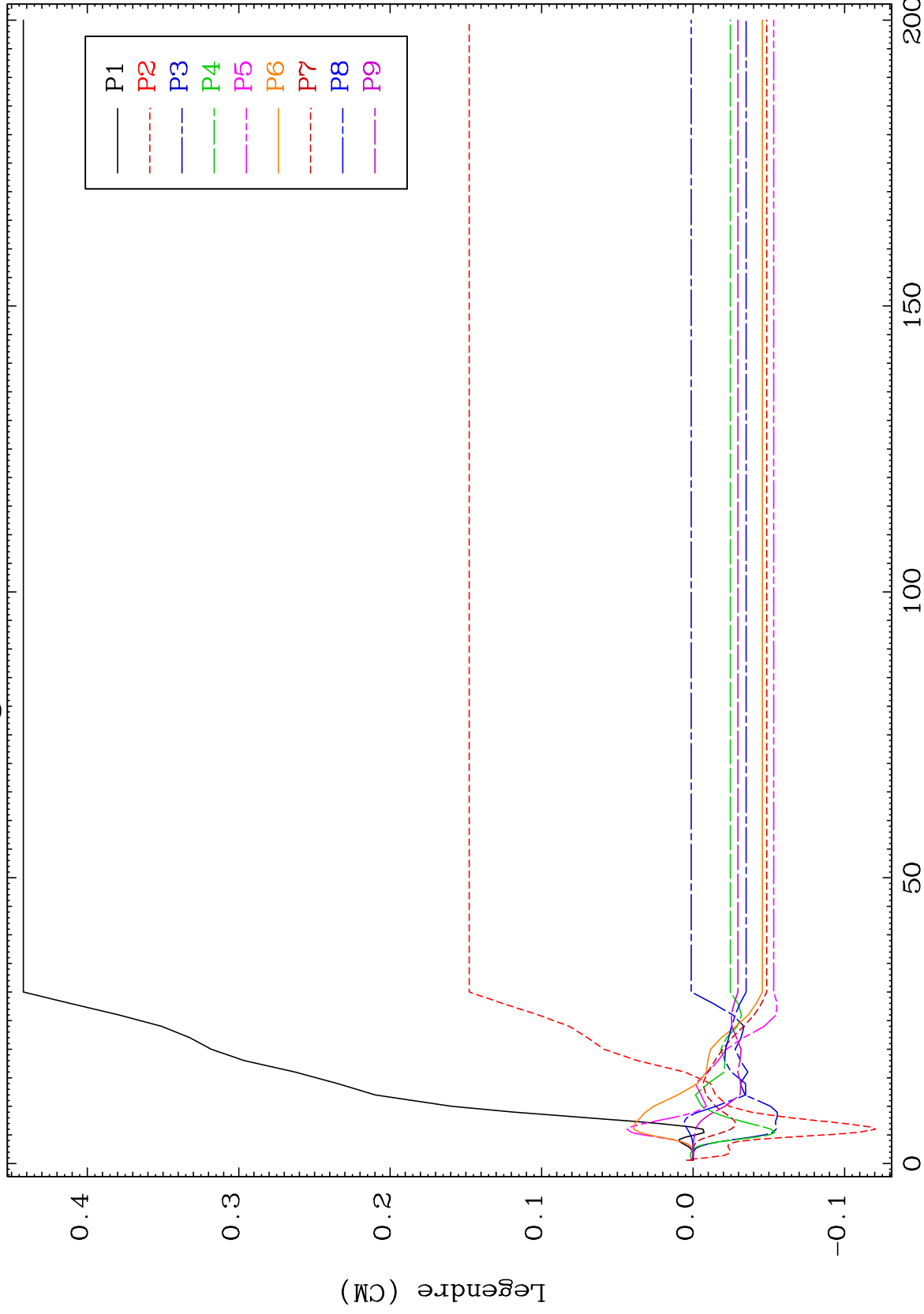
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



79

Incident Energy (MeV)

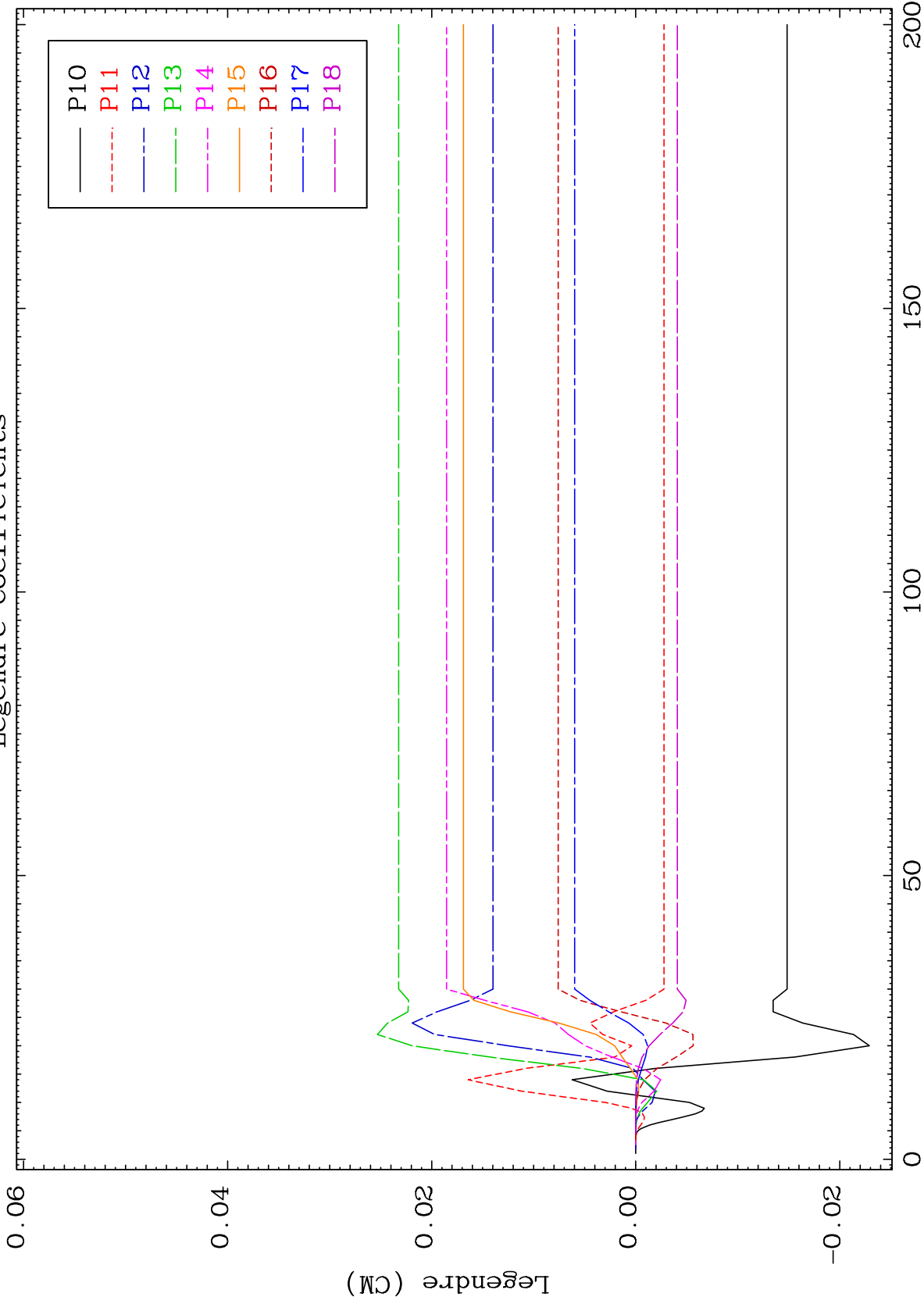
63-Eu-153



MAT 6331

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

63-Eu-153



63-Eu-153

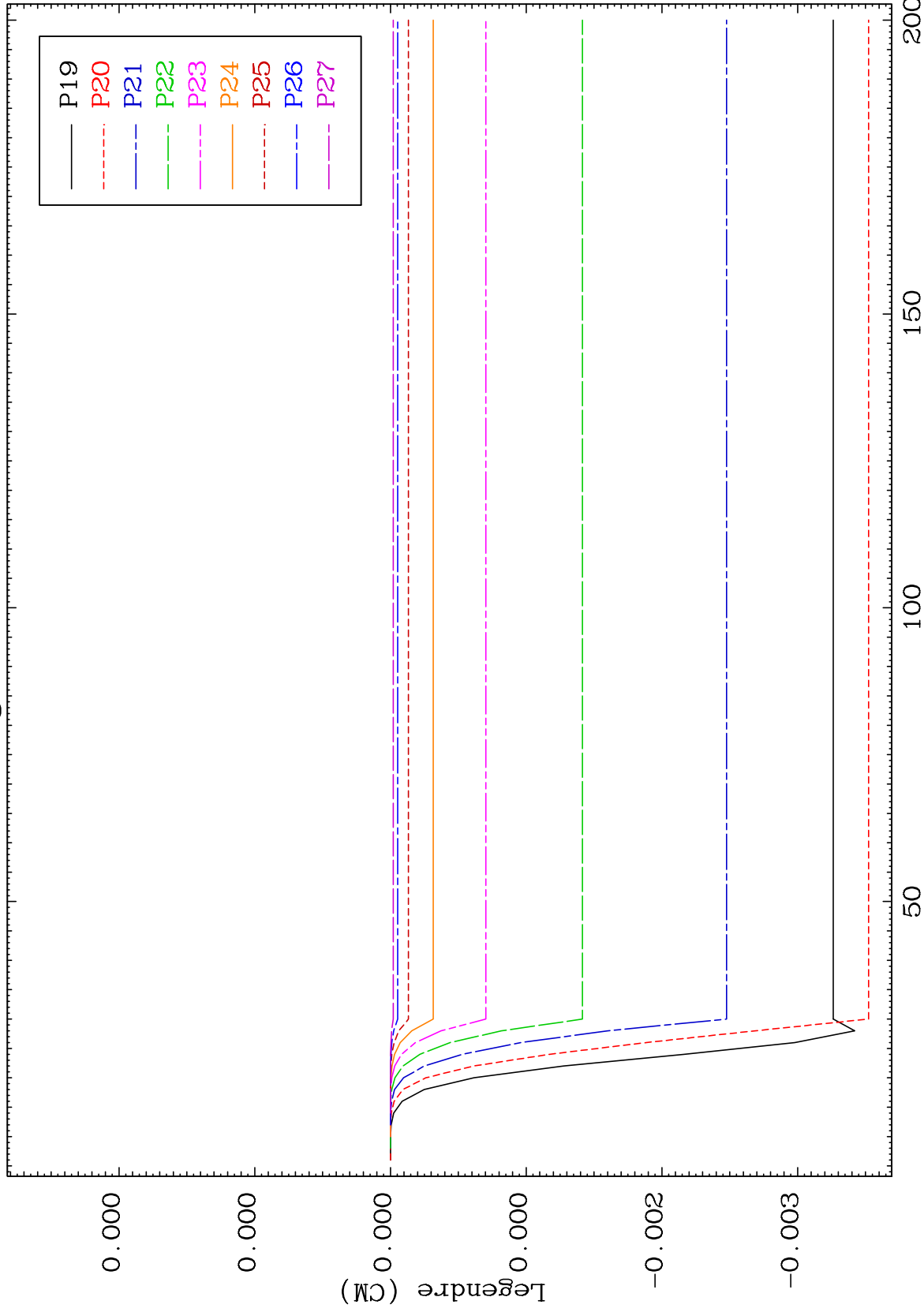
Incident Energy (MeV)

80

MAT 6331

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

63-Eu-153



81

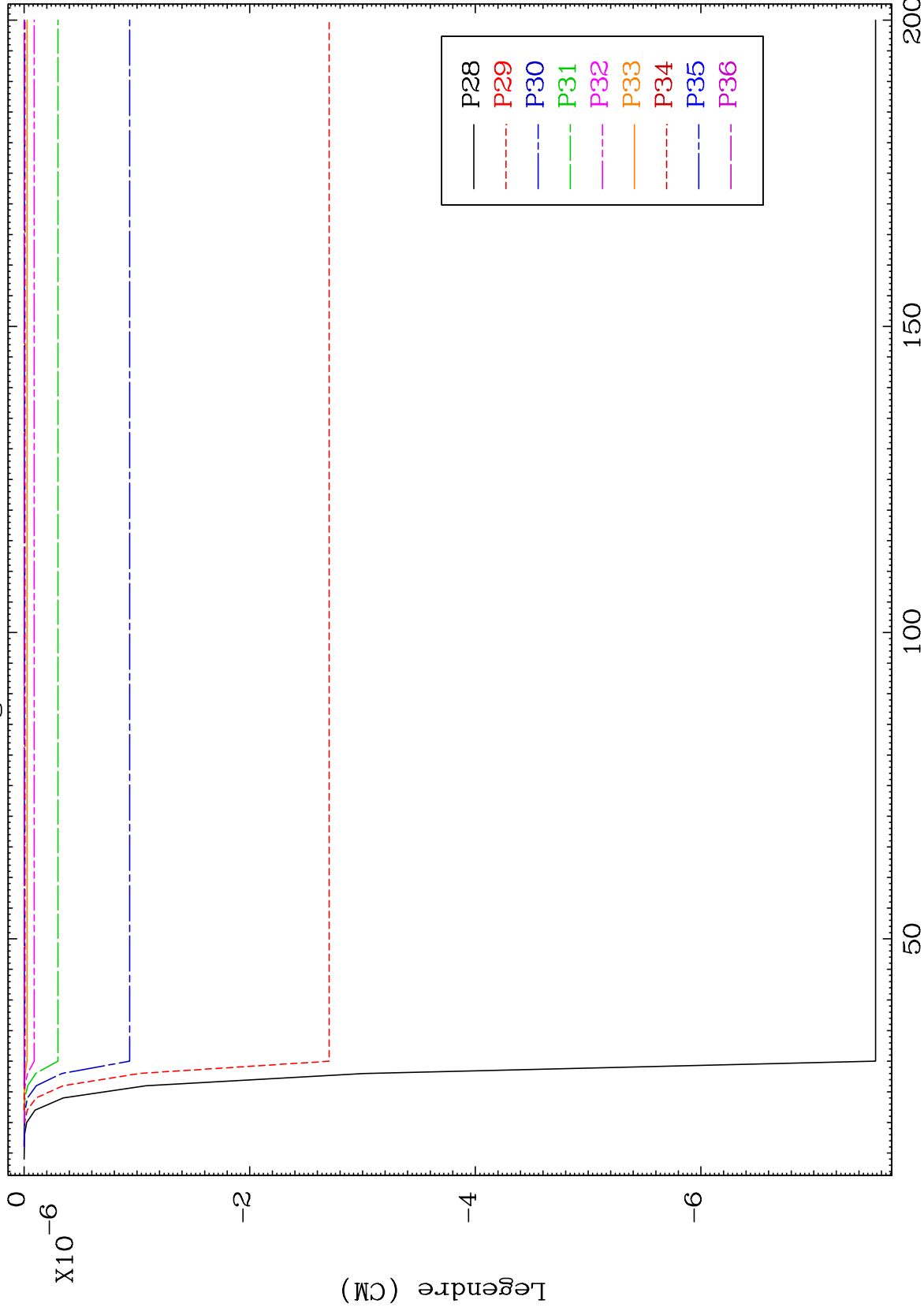
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



82

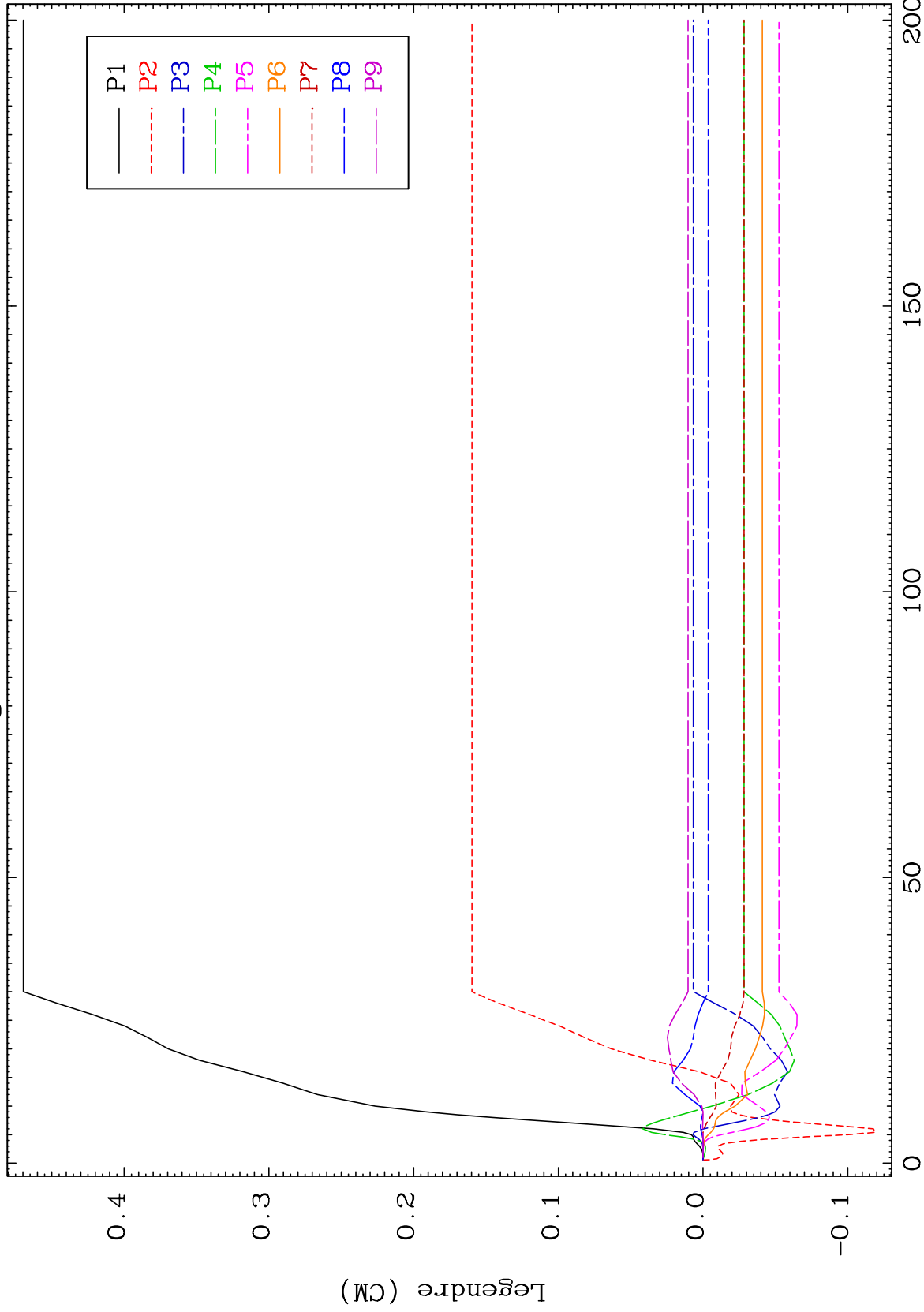
63-Eu-153

63-Eu-153

MAT 6331

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

63-Eu-153



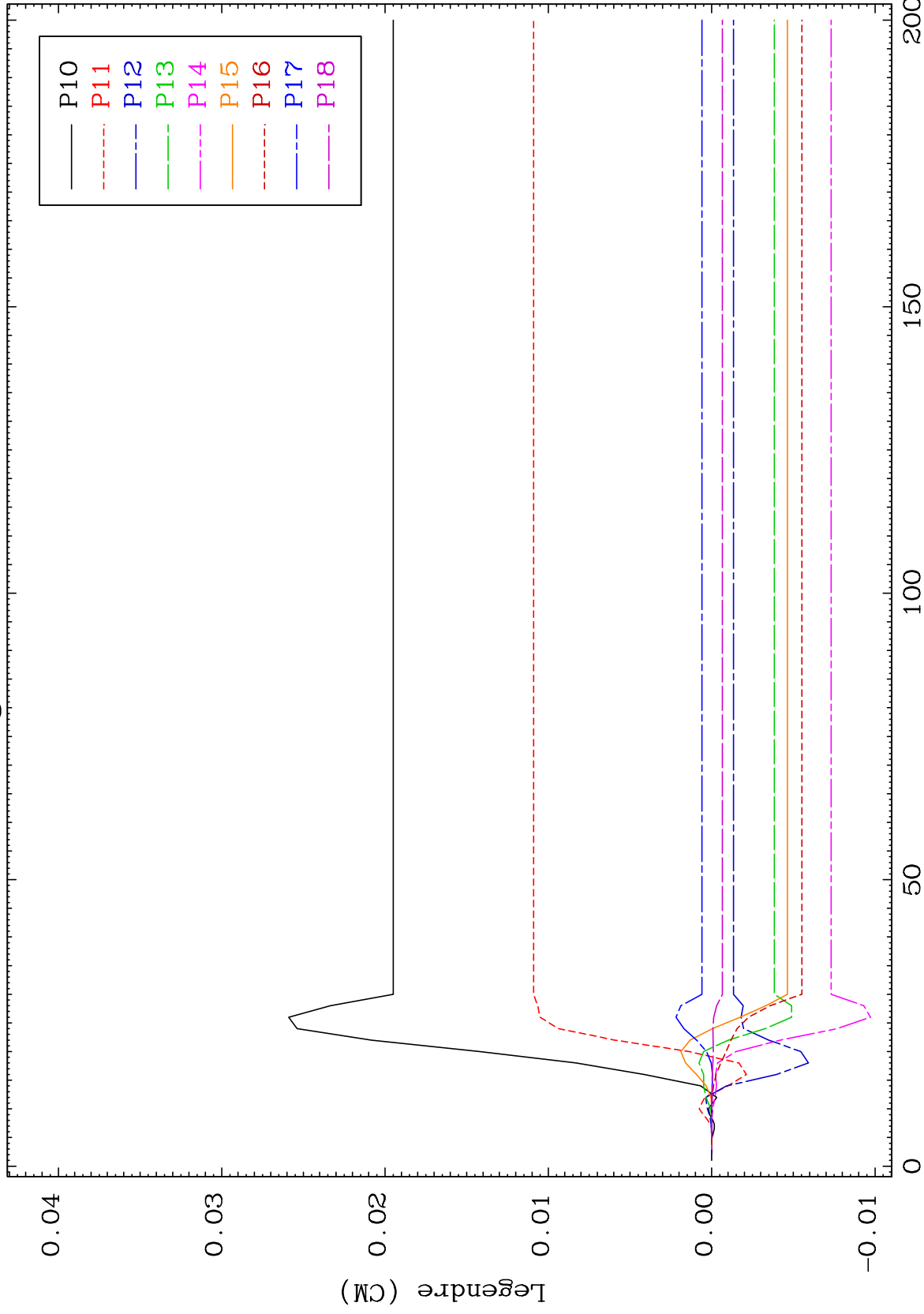
83

63-Eu-153

MAT 6331

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

63-Eu-153



84

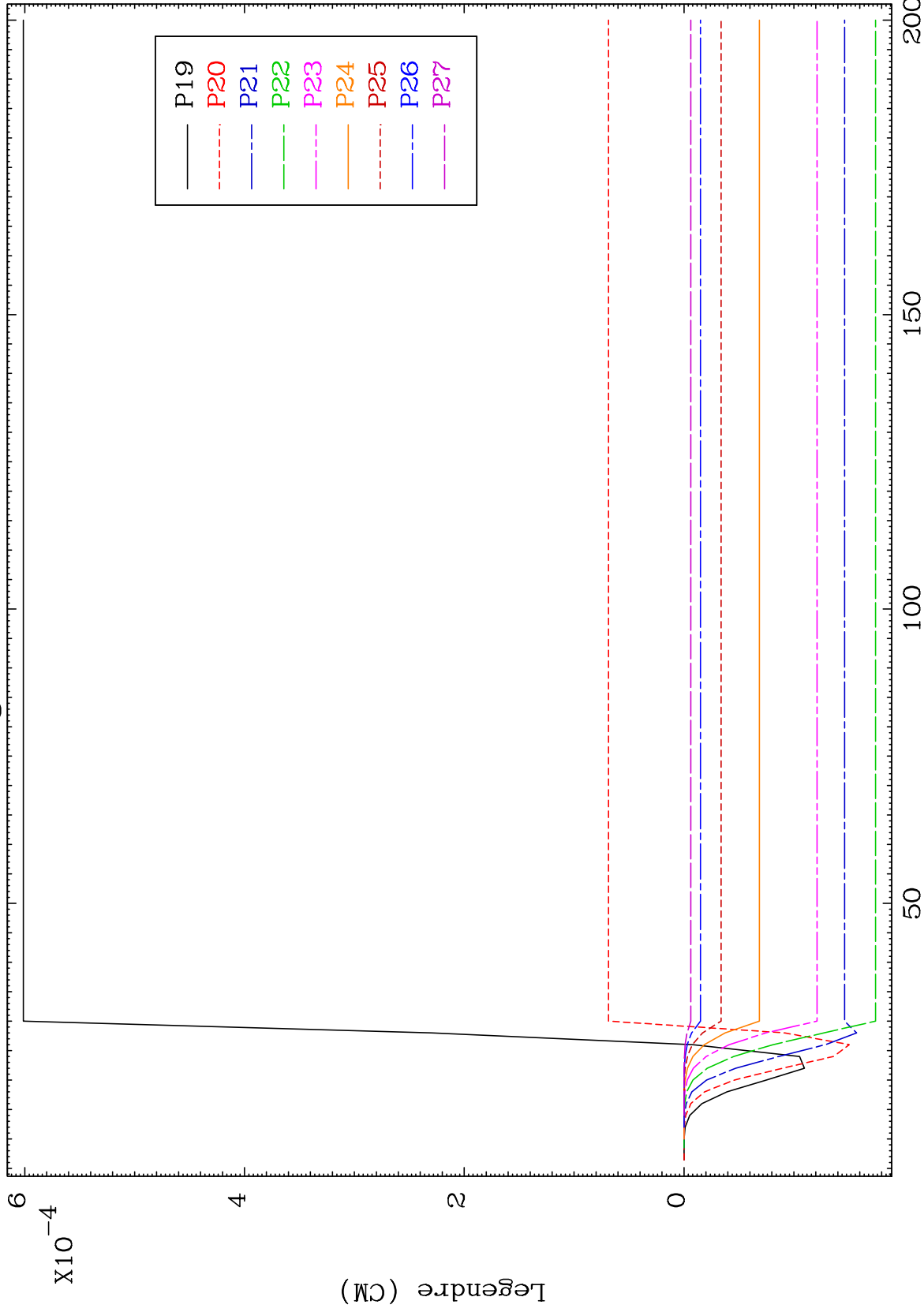
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



85

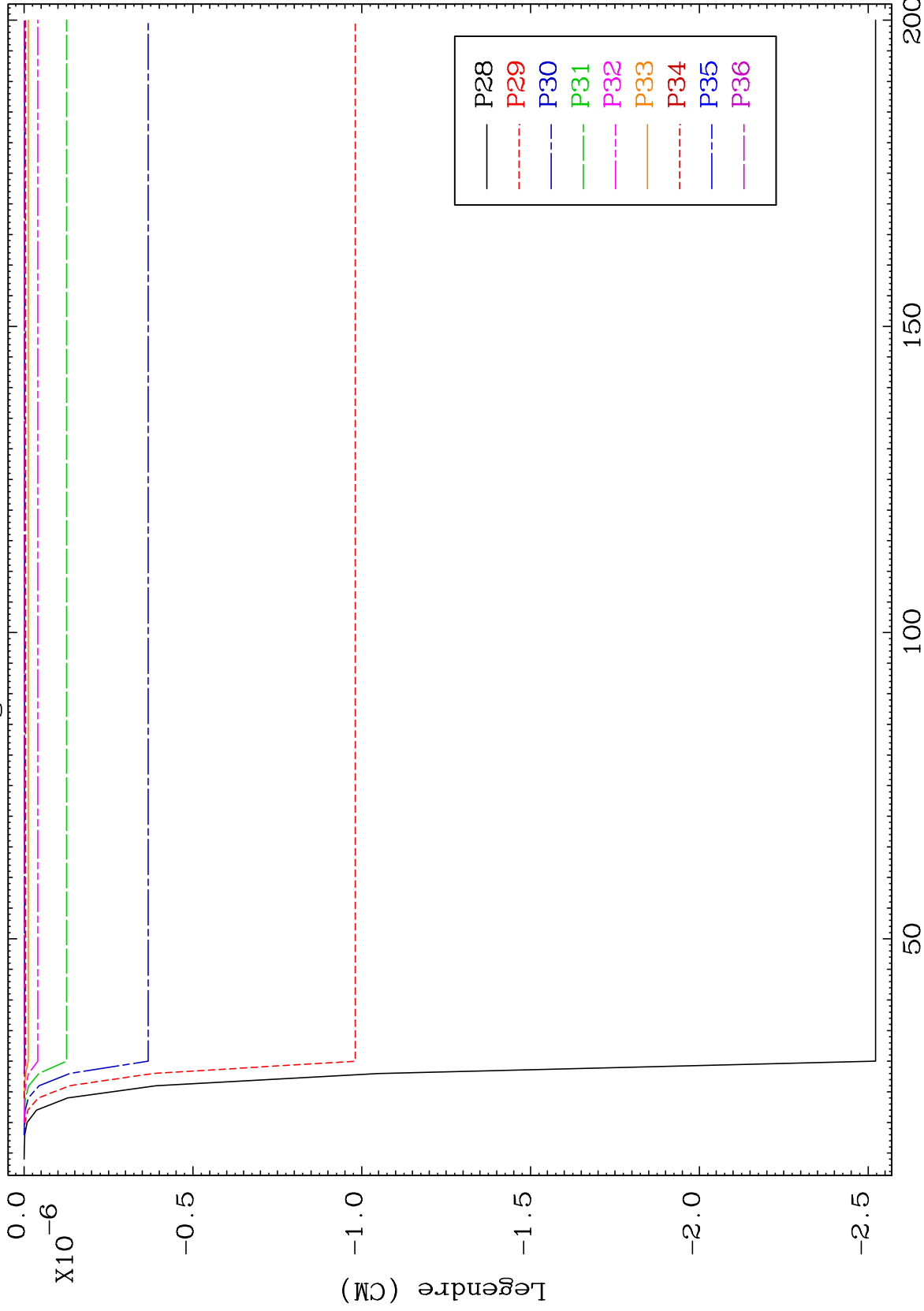
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



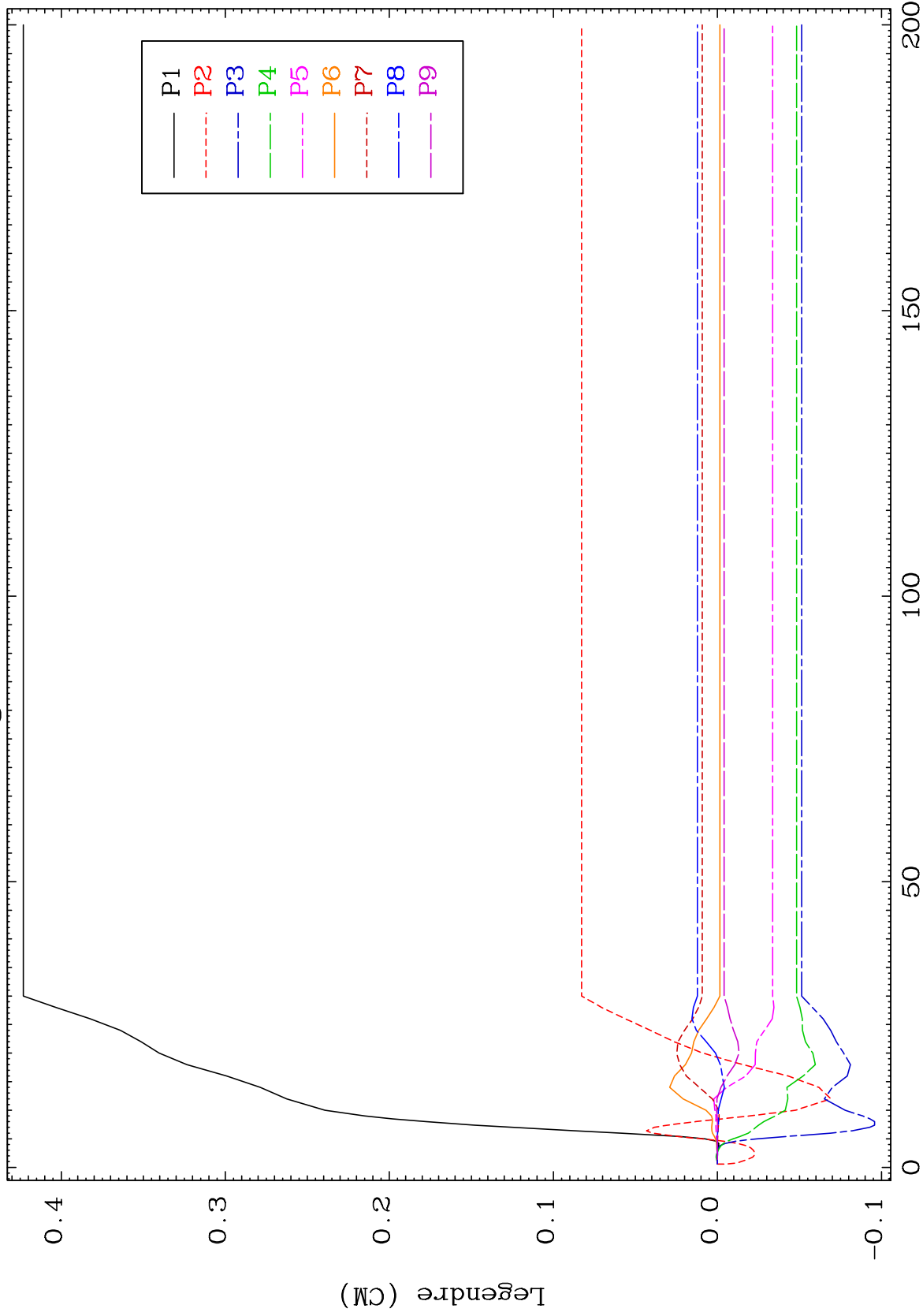
86

63-Eu-153

MAT 6331

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

63-Eu-153



87

Incident Energy (MeV)

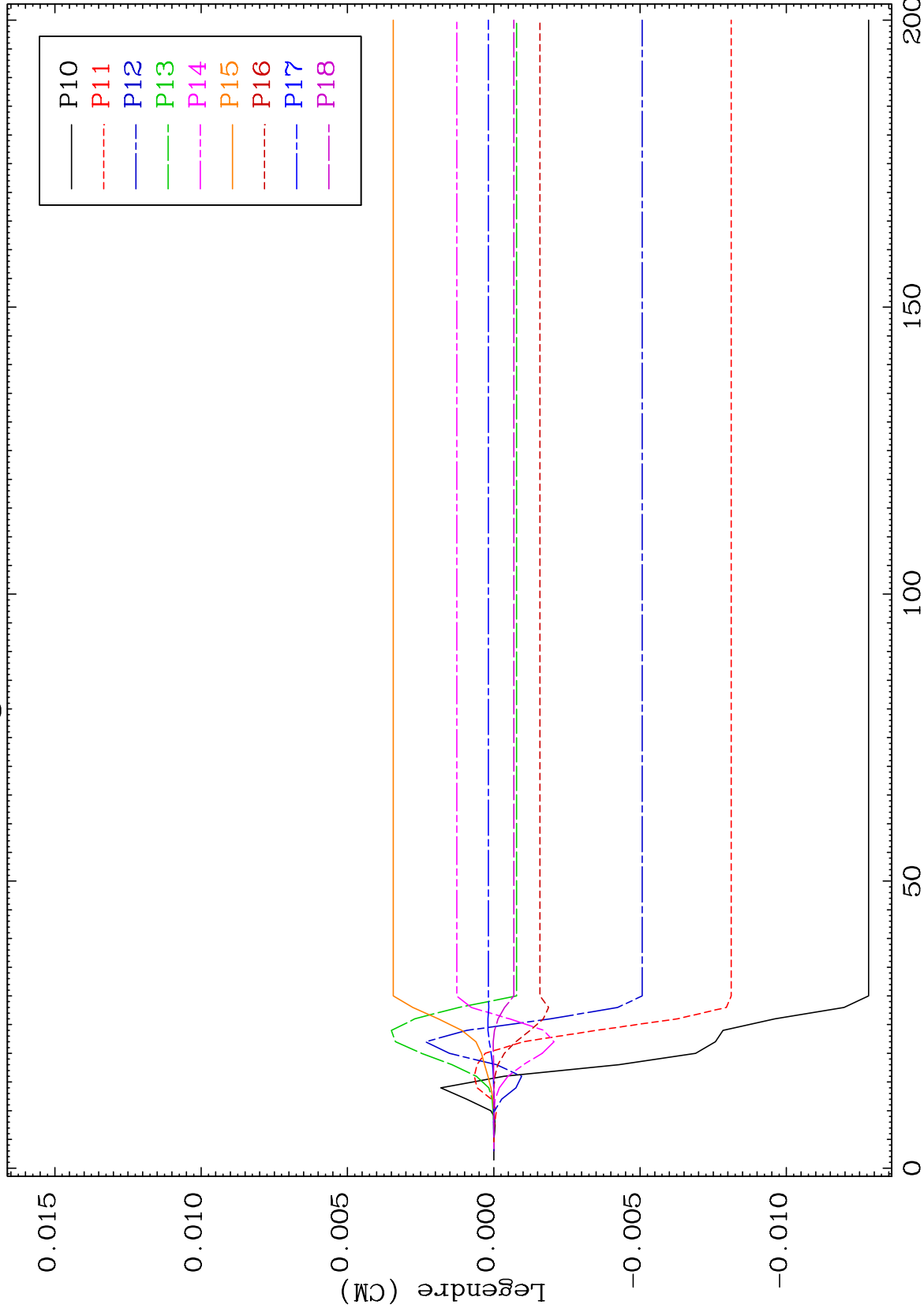
63-Eu-153



MAT 6331

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

63-Eu-153



88

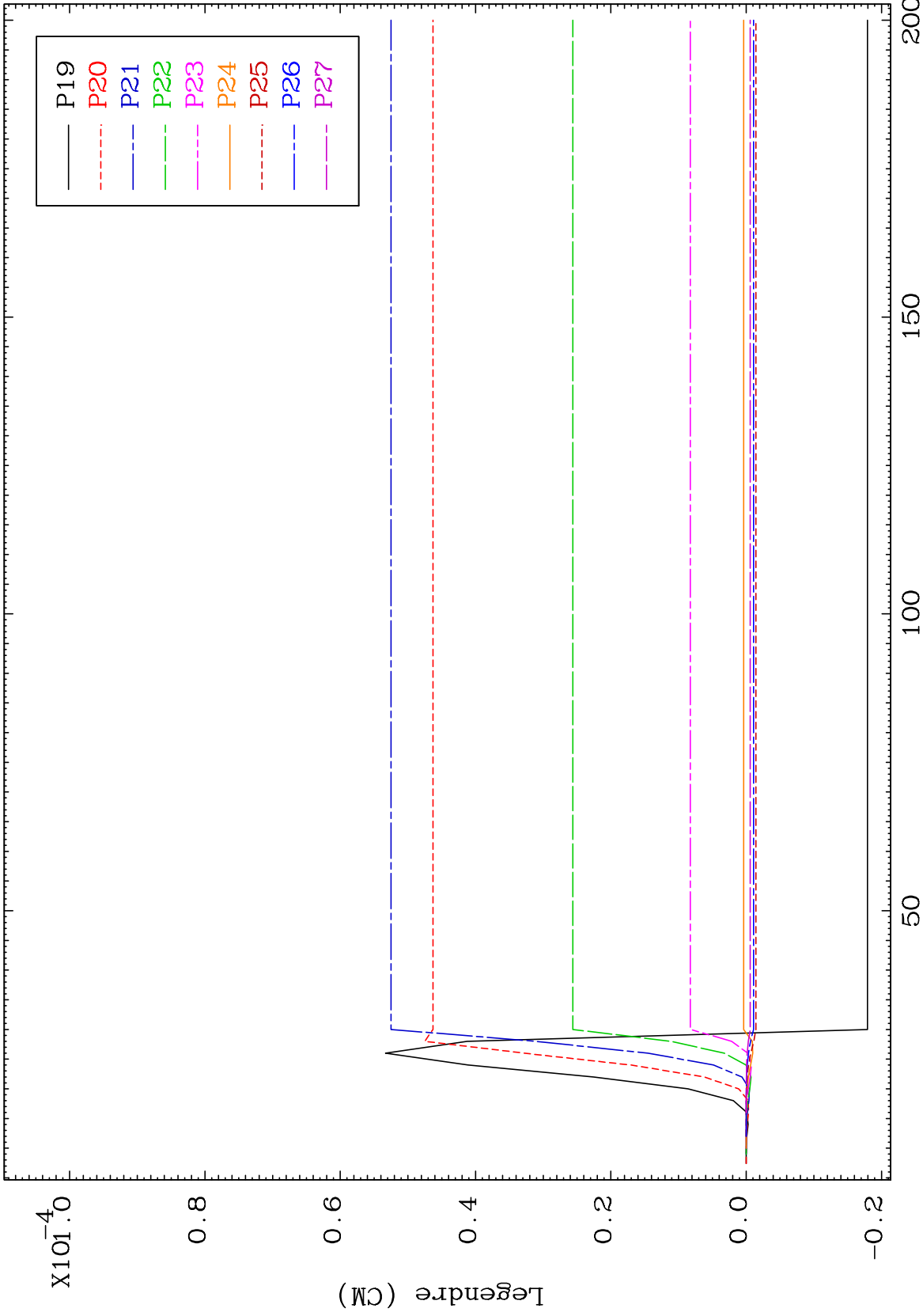
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

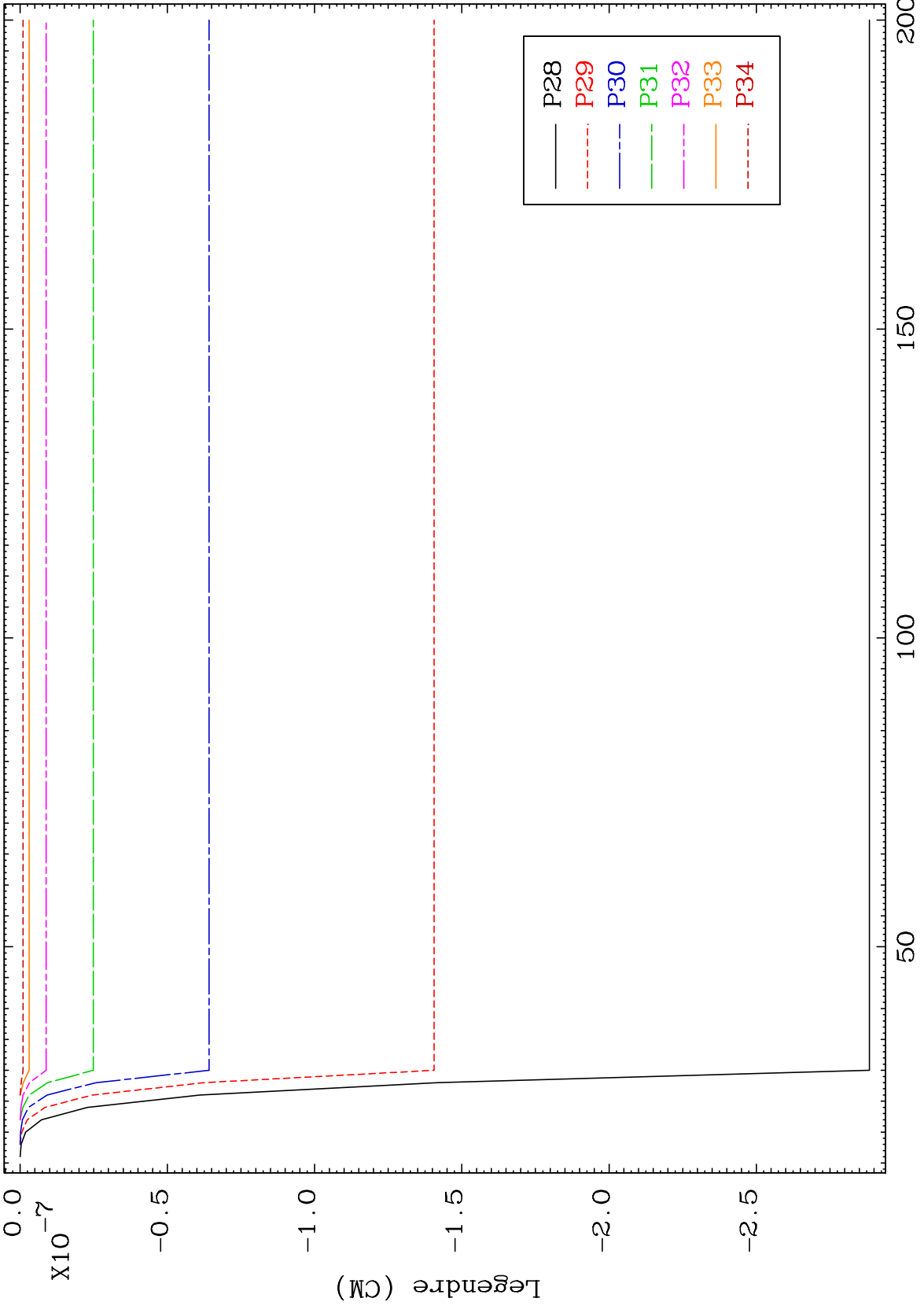
63-Eu-153



89

63-Eu-153

MAT 6331 MT= 69 (n,n') Level Legendre Coefficients 63-Eu-153

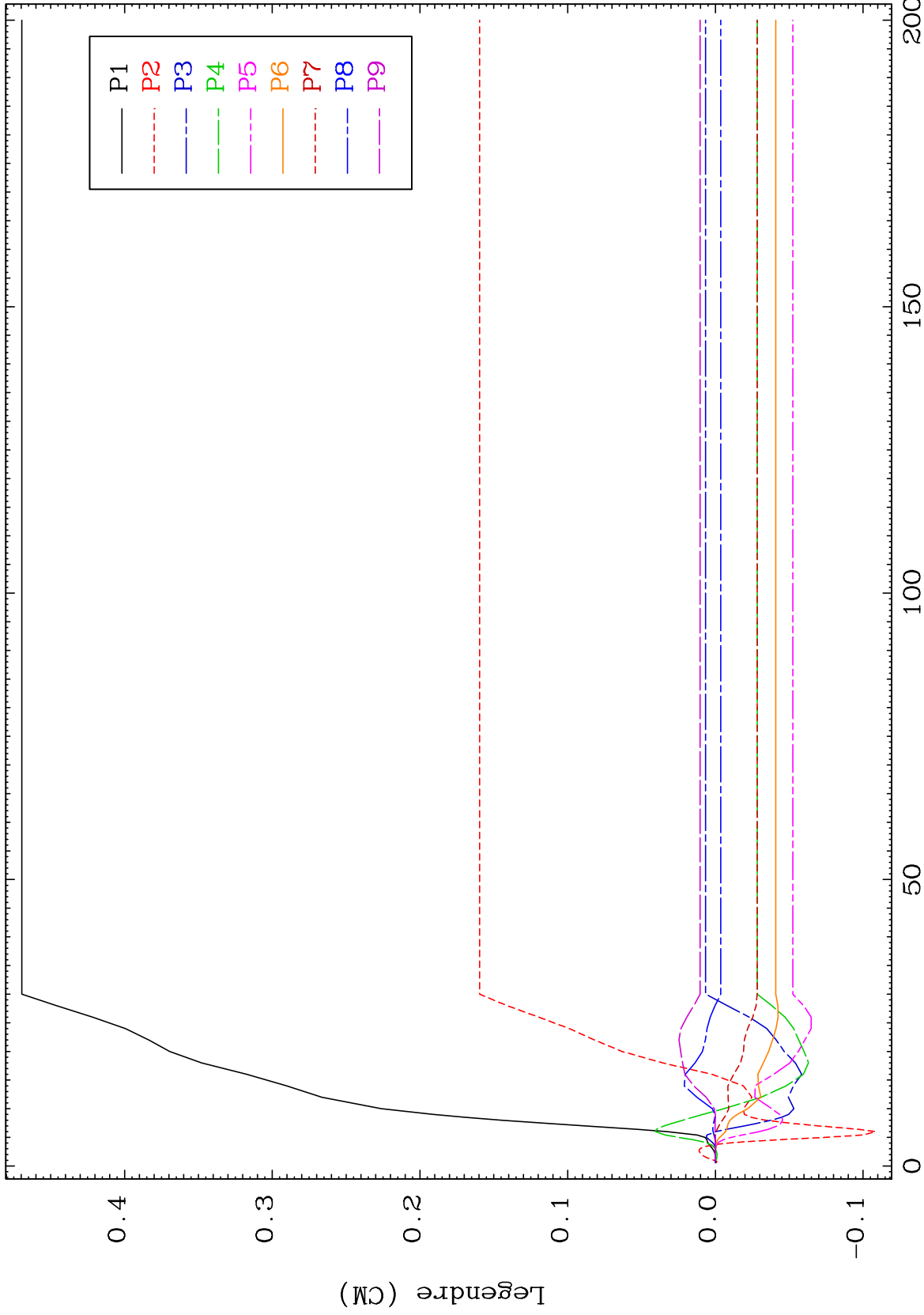


90 Incident Energy (MeV) 63-Eu-153

MAT 6331

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

63-Eu-153



91

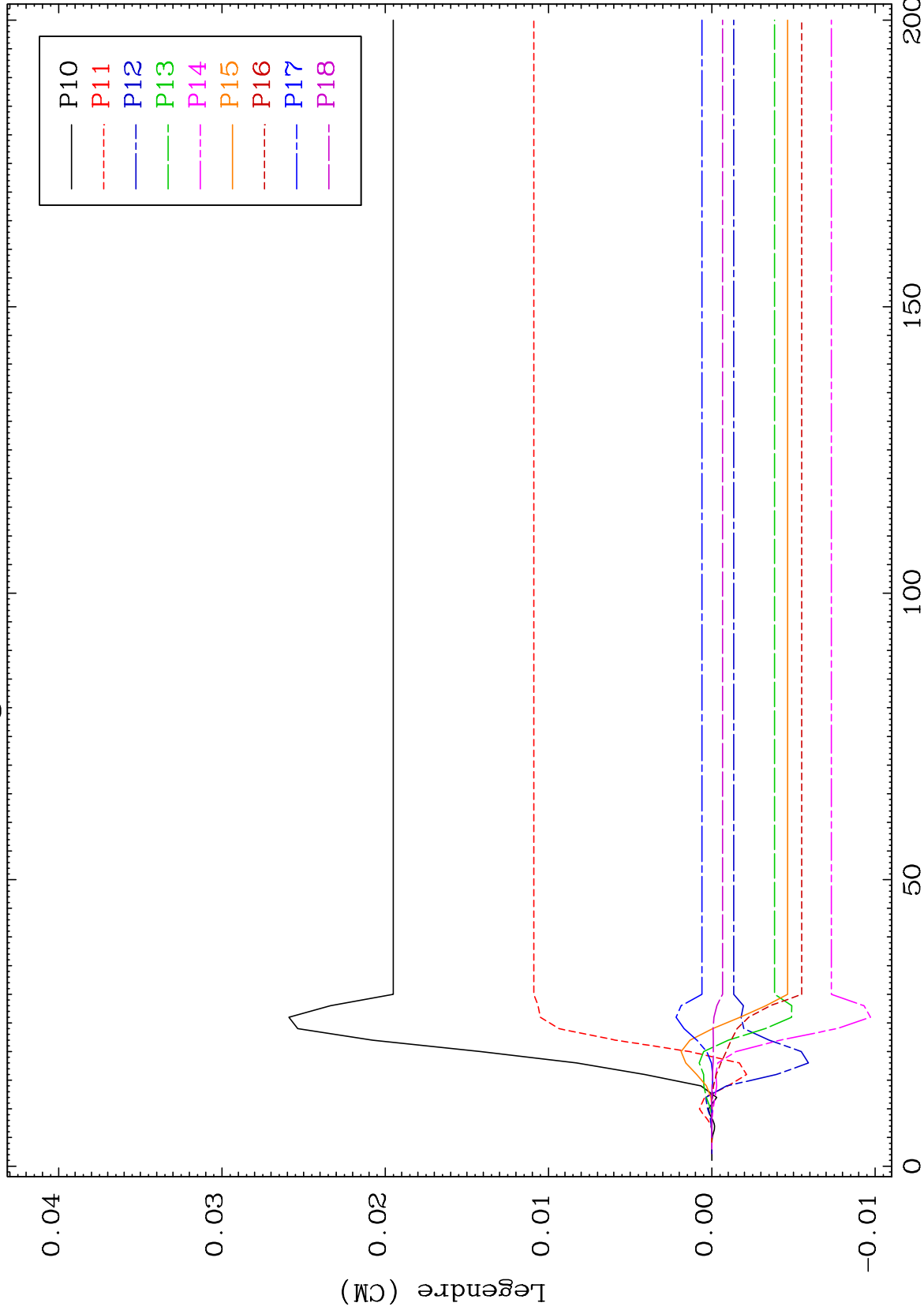
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

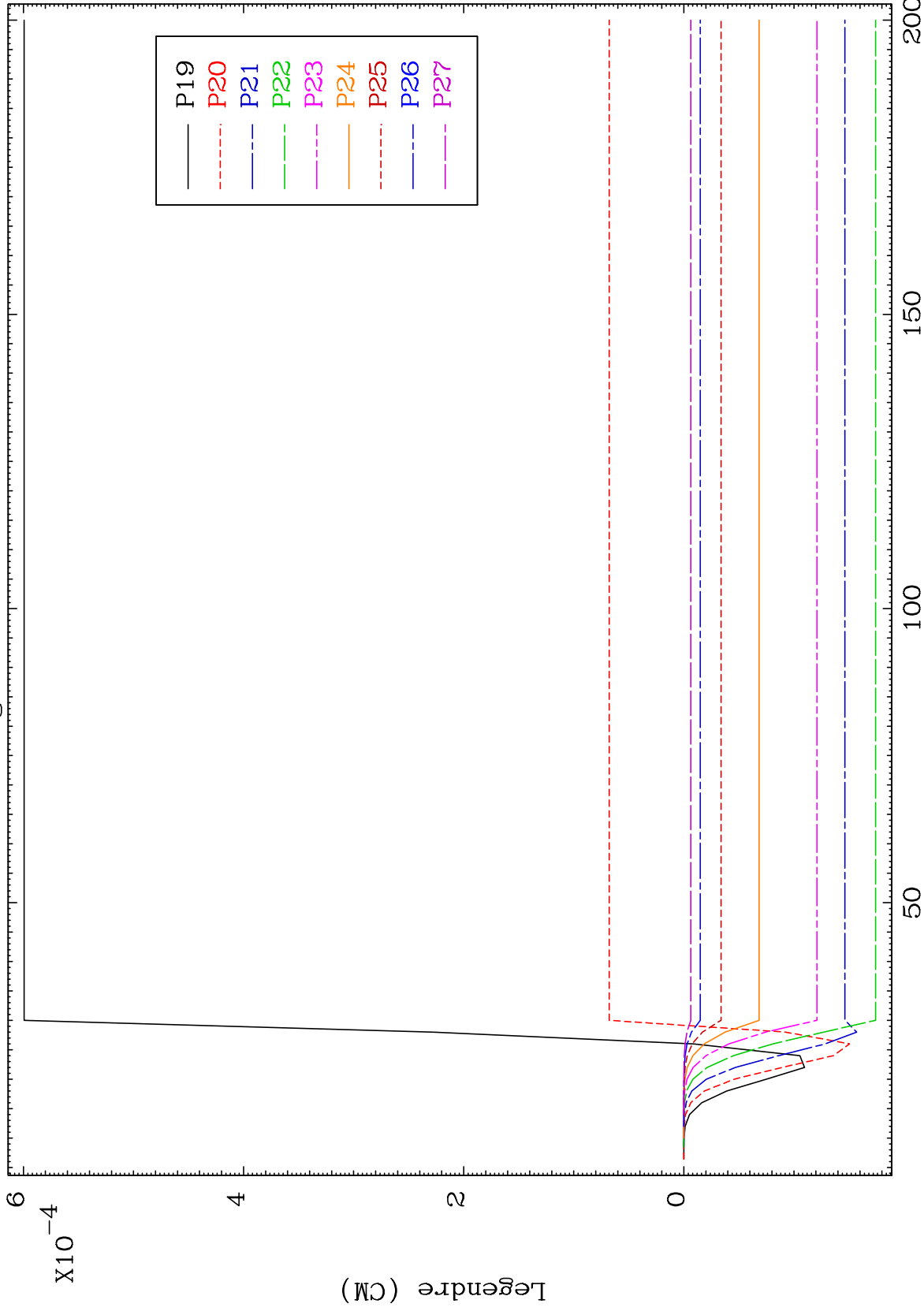
63-Eu-153



92

Incident Energy (MeV)

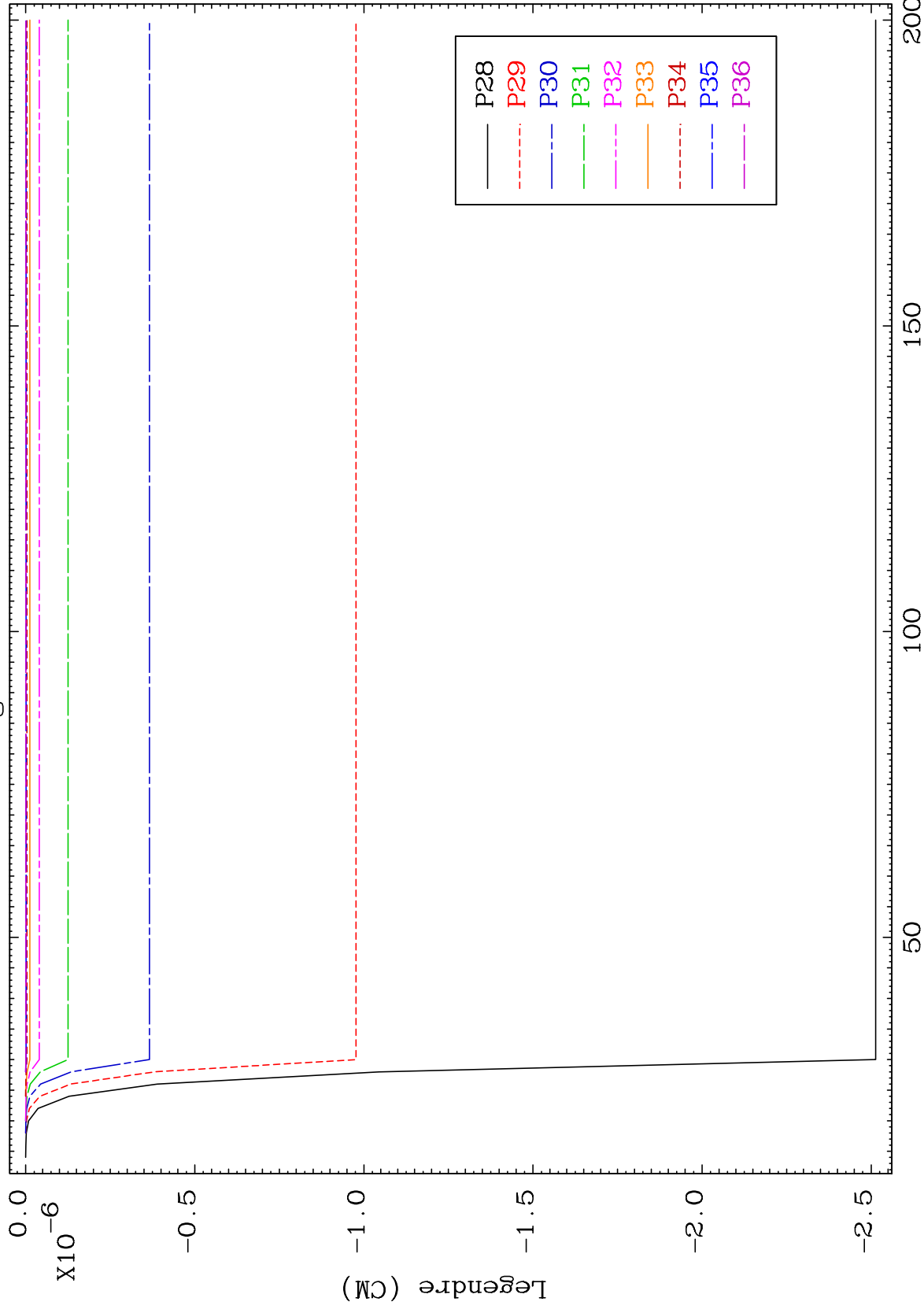
63-Eu-153



MAT 6331

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

63-Eu-153



94

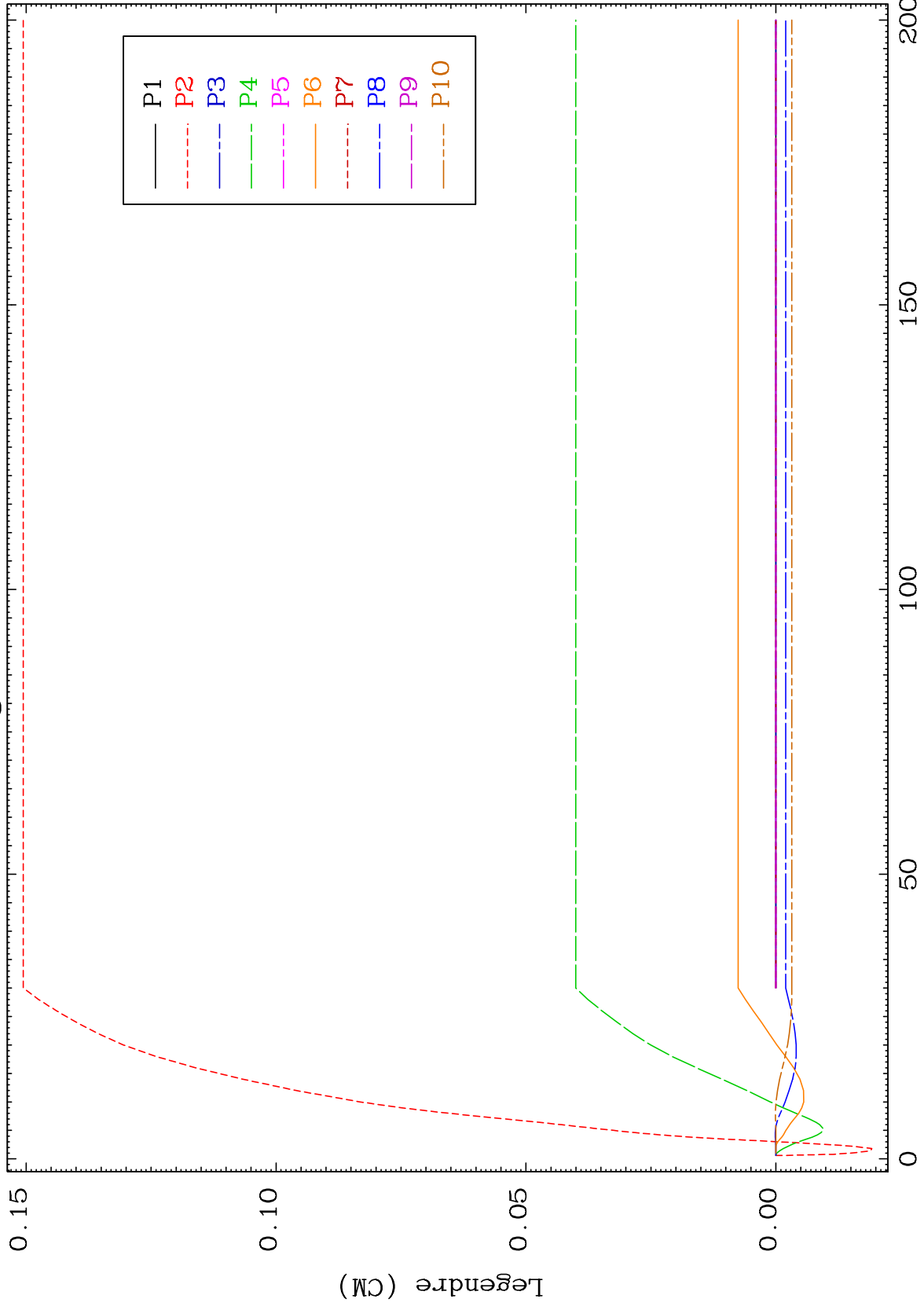
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



95

Incident Energy (MeV)

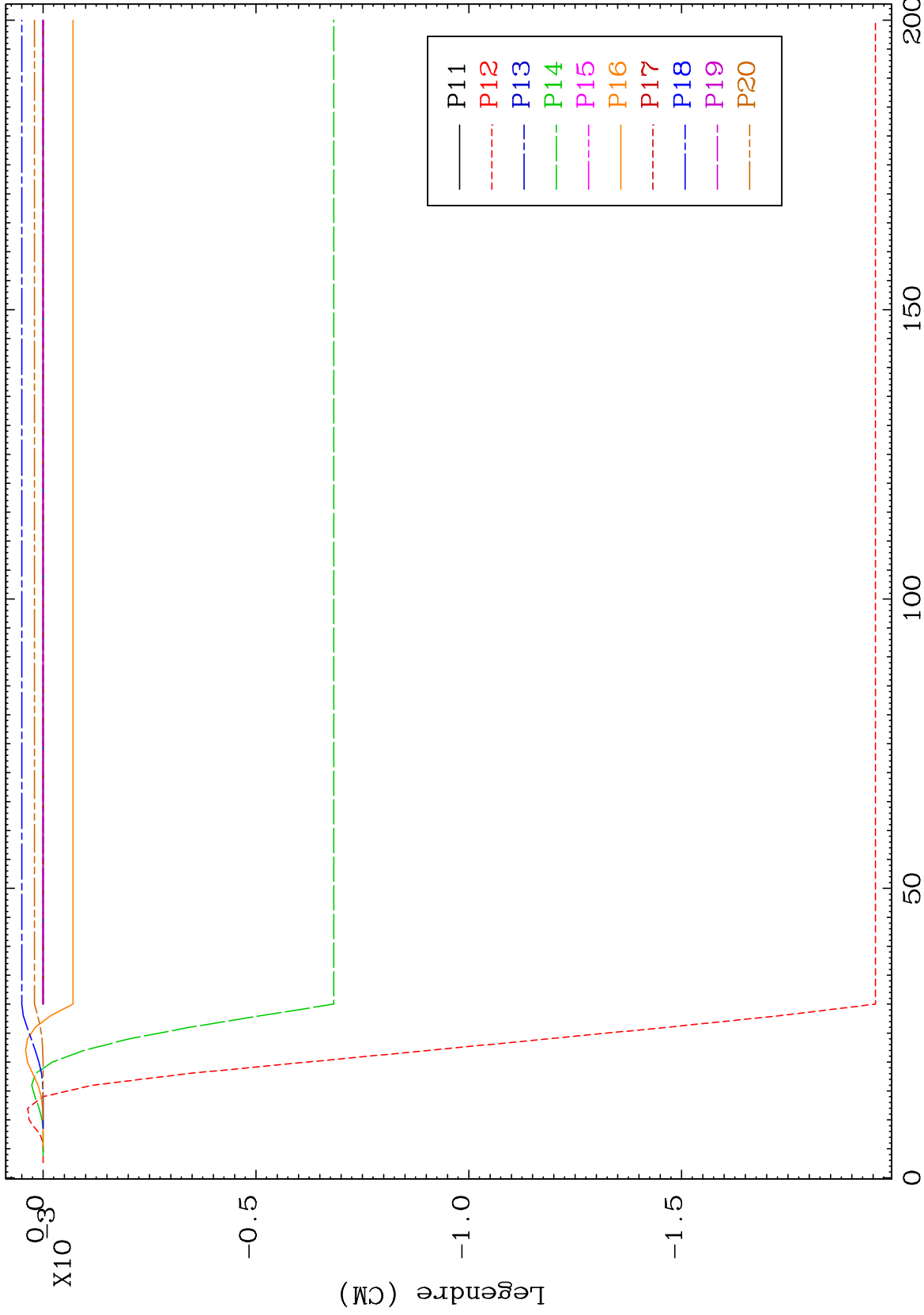
63-Eu-153



MAT 6331

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

63-Eu-153



96

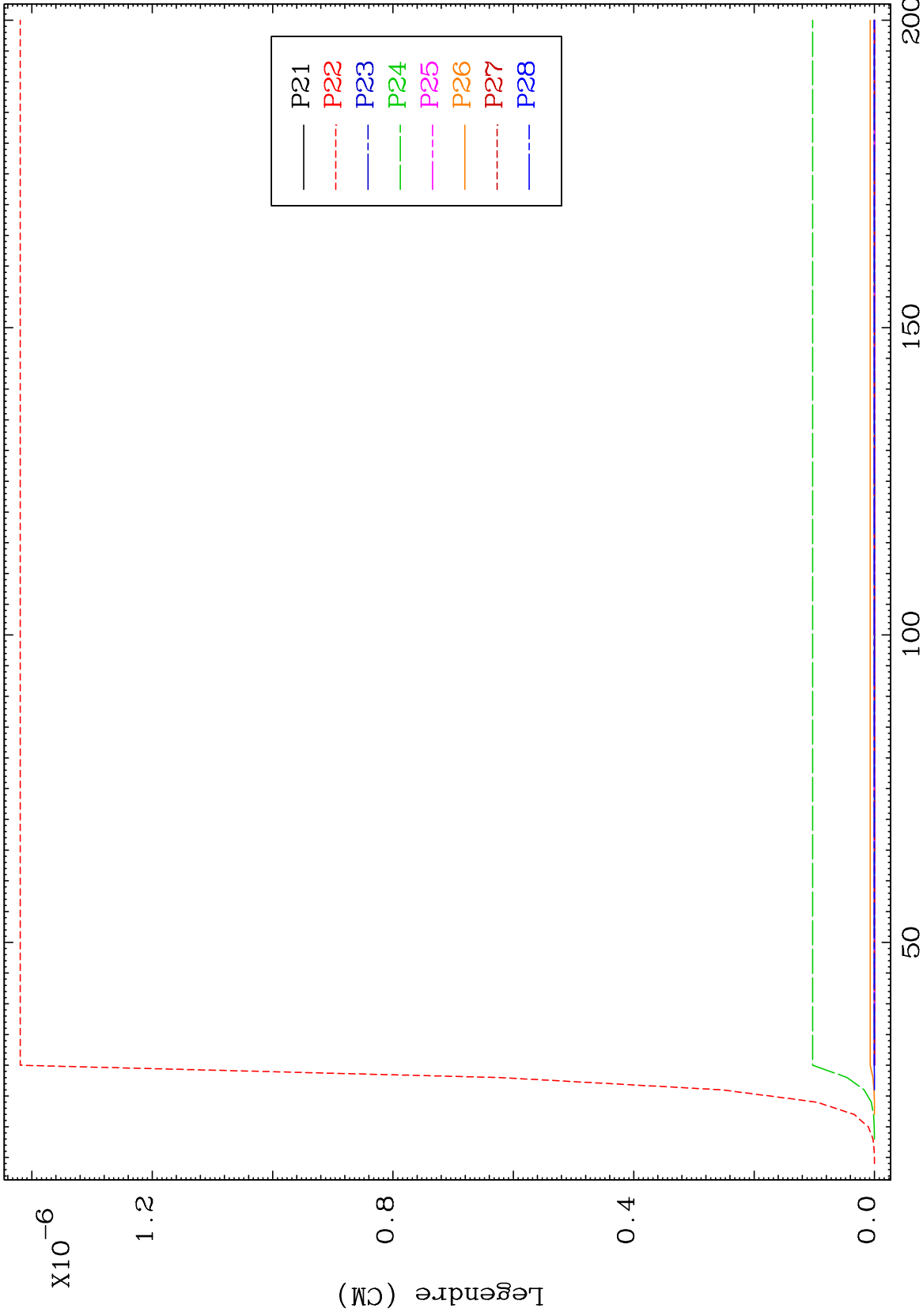
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



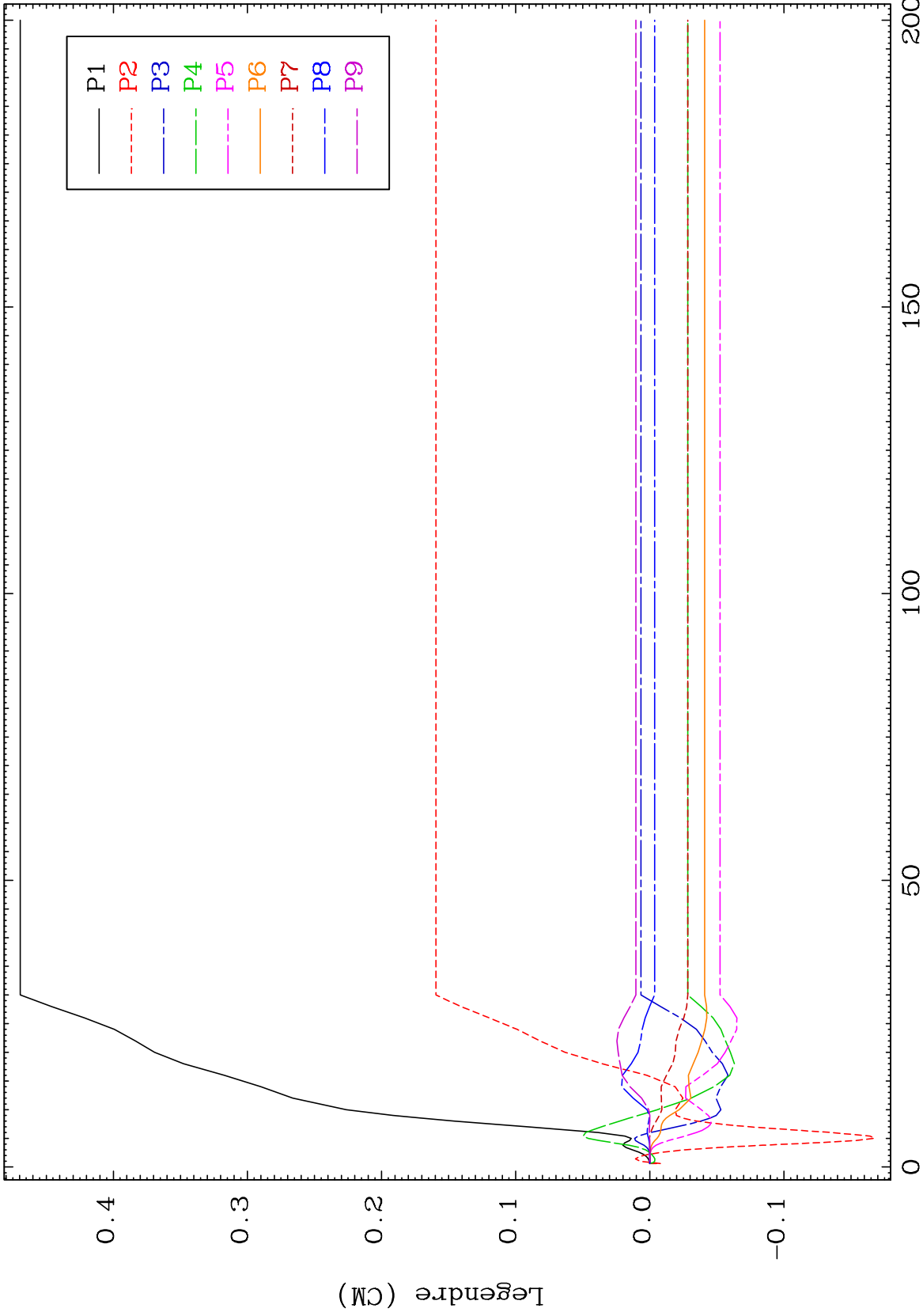
97

63-Eu-153

MAT 6331

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

63-Eu-153



98

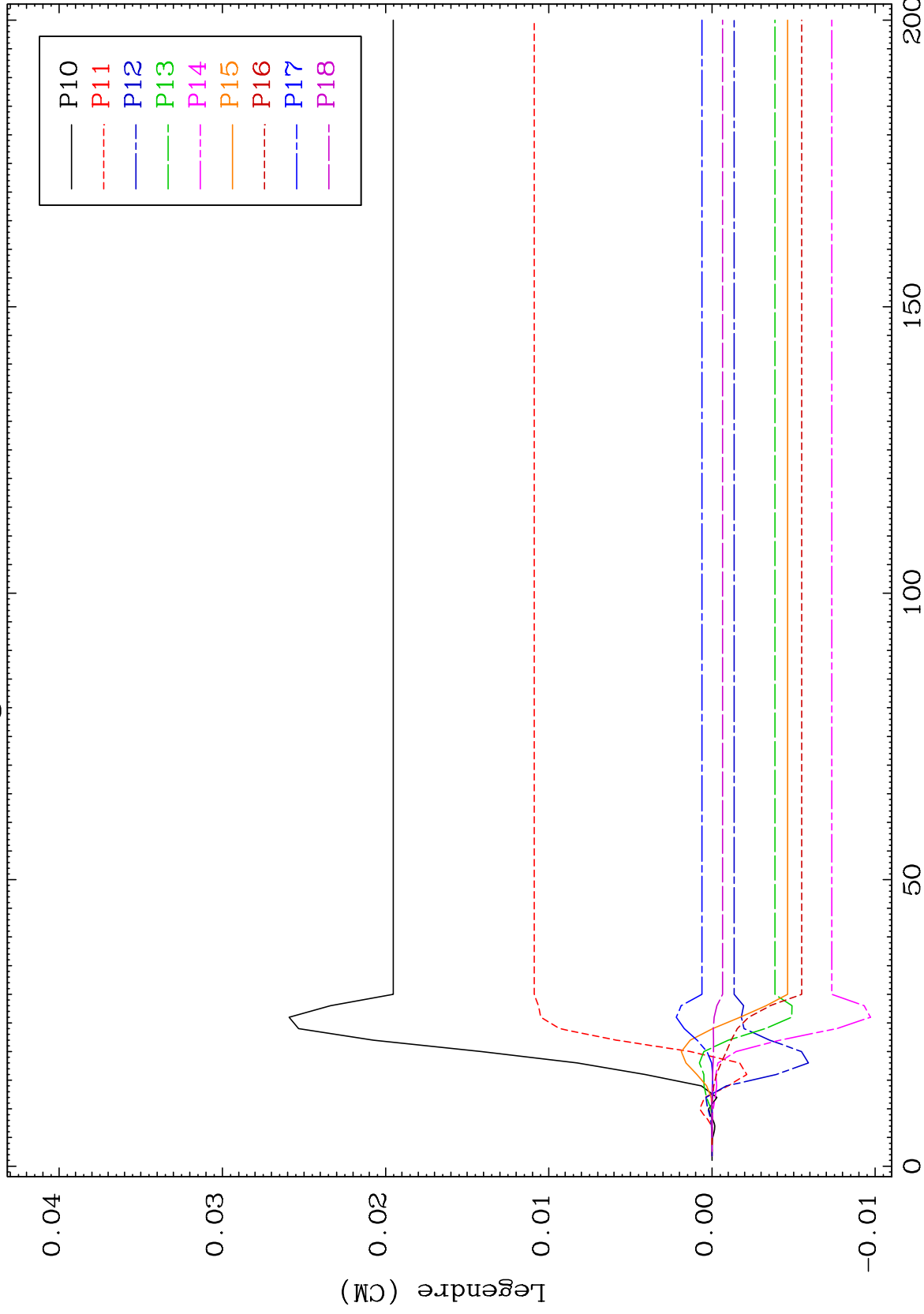
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



99

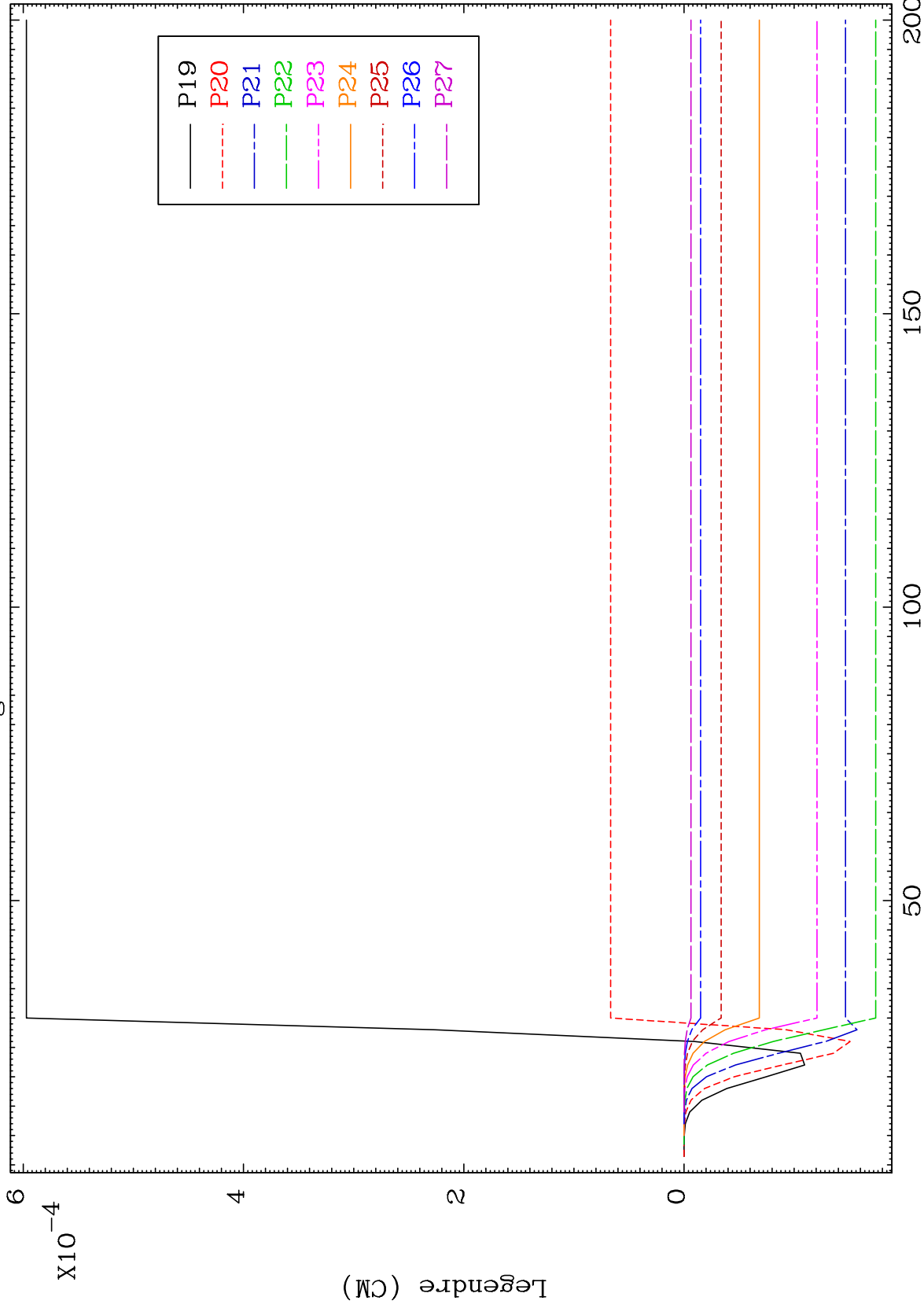
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



100

Incident Energy (MeV)

50

100

150

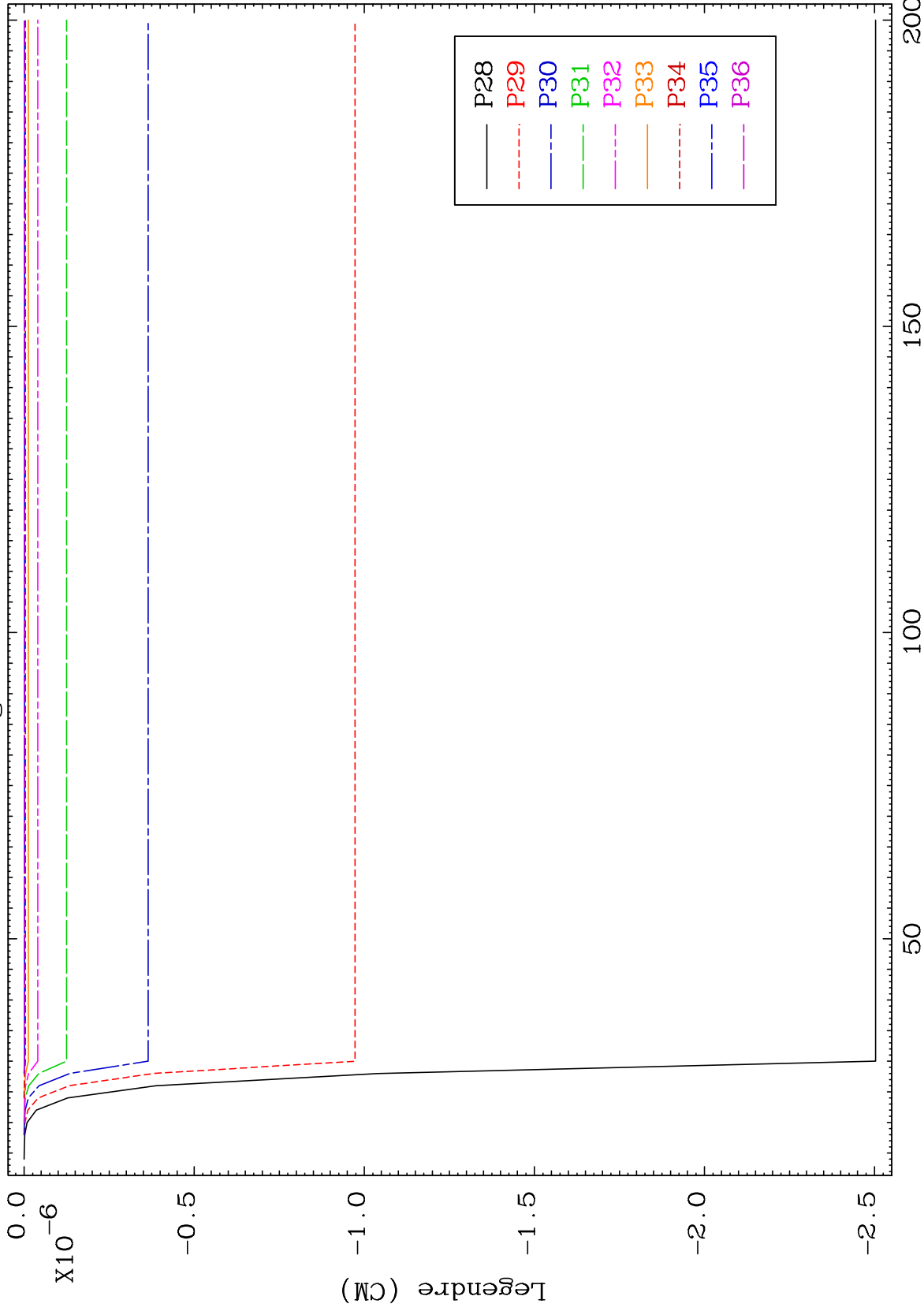
200

63-Eu-153

MAT 6331

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

63-Eu-153



101

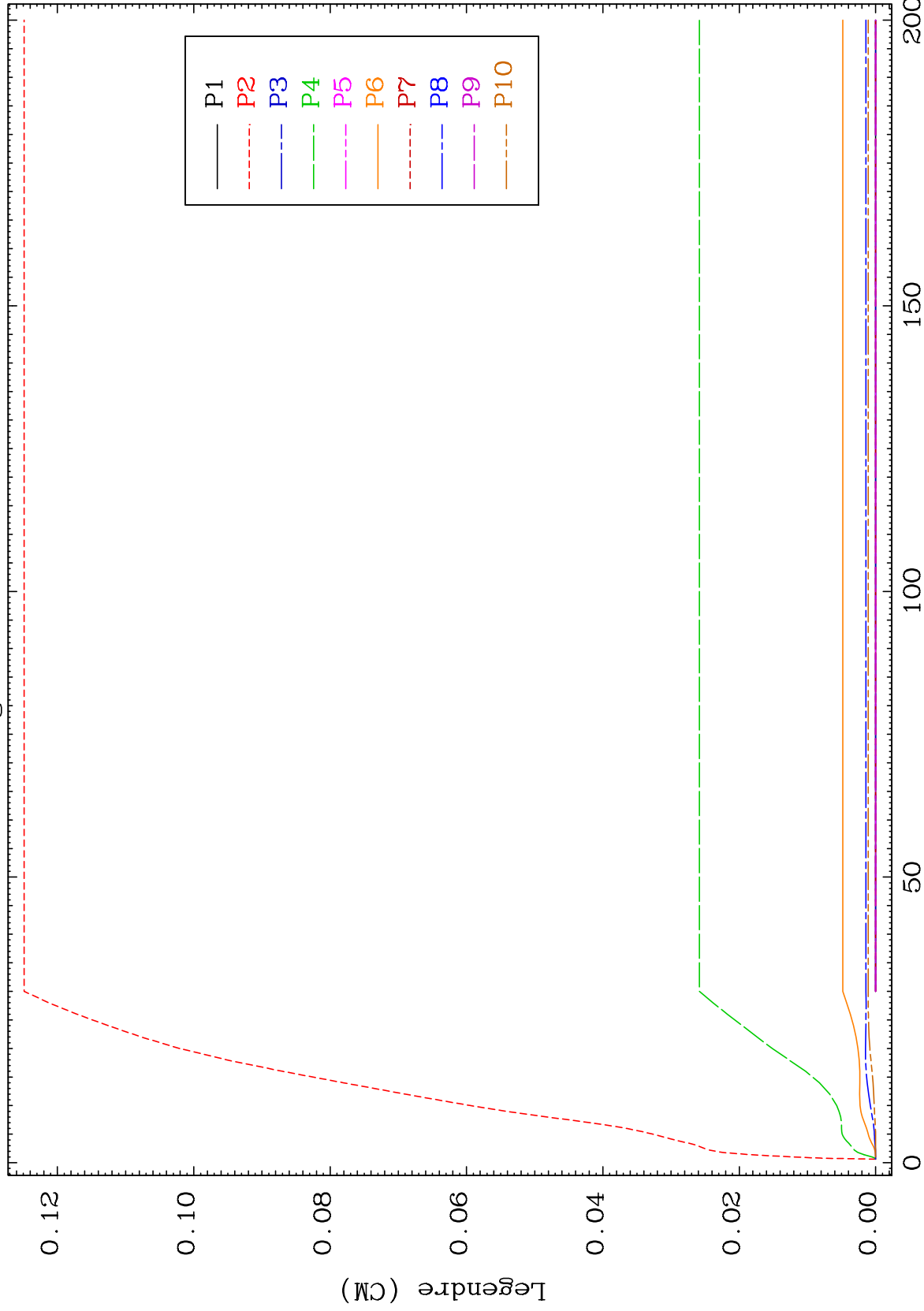
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



102

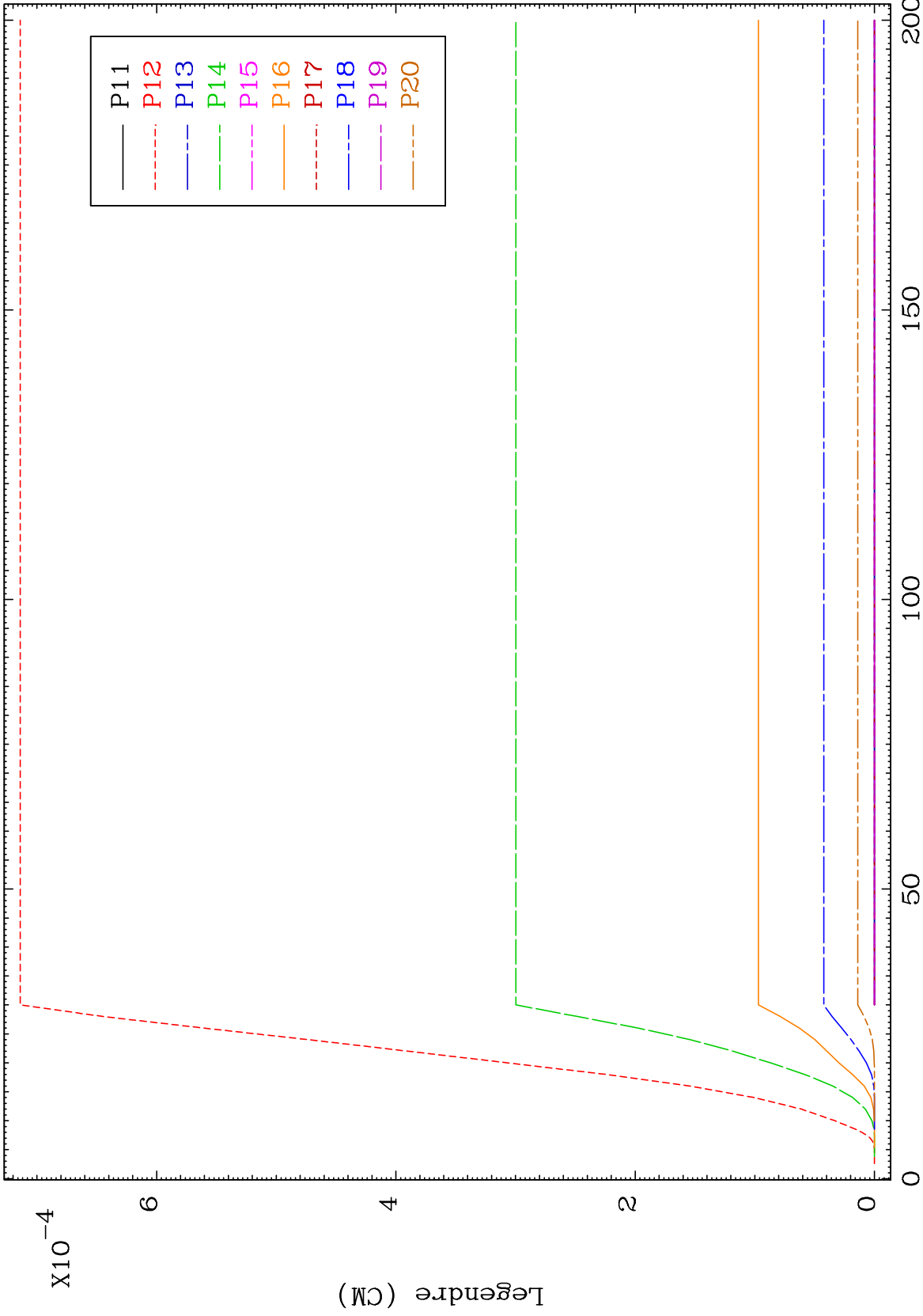
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



103

Incident Energy (MeV)

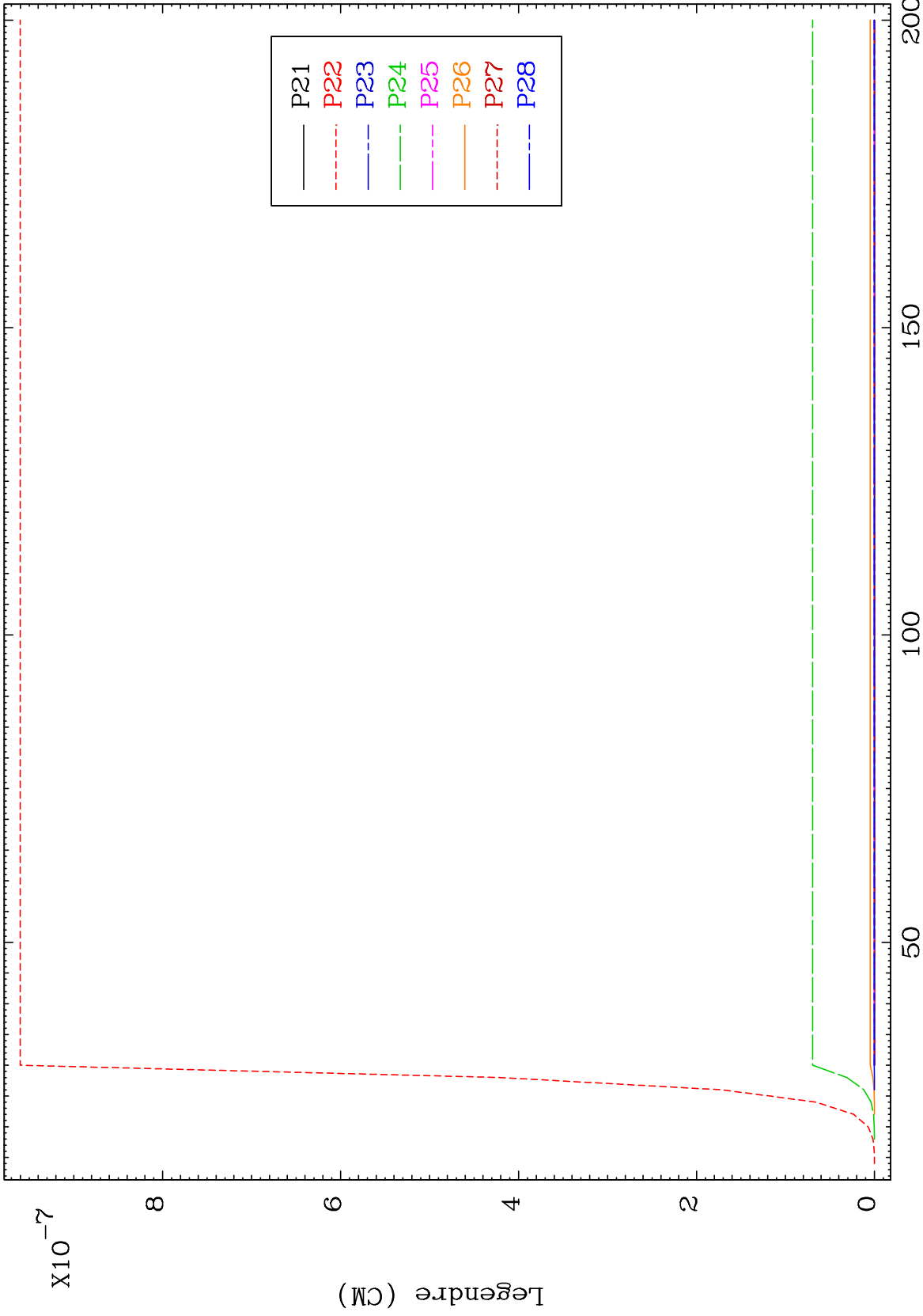
63-Eu-153



MAT 6331

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

63-Eu-153



104

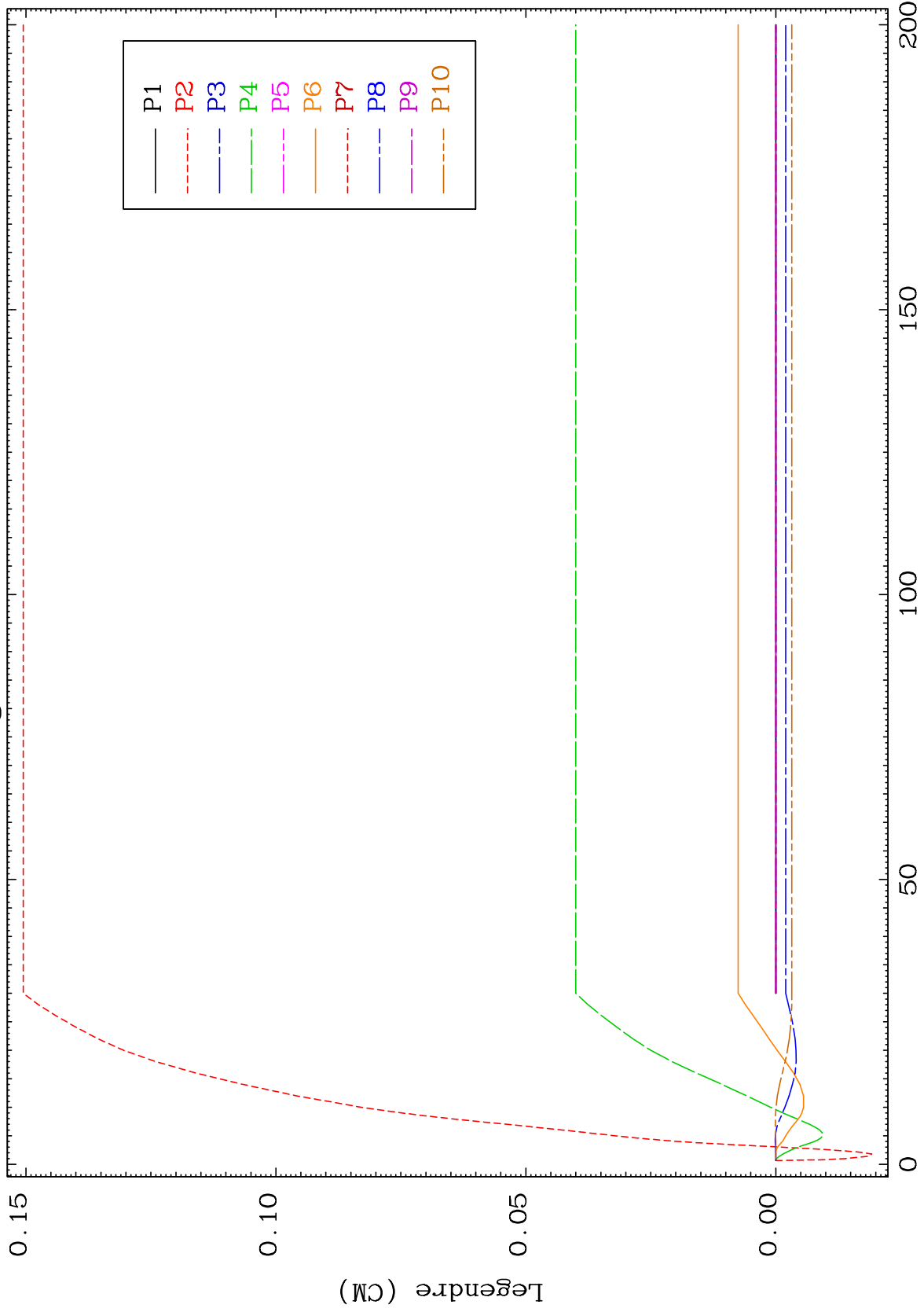
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



63-Eu-153

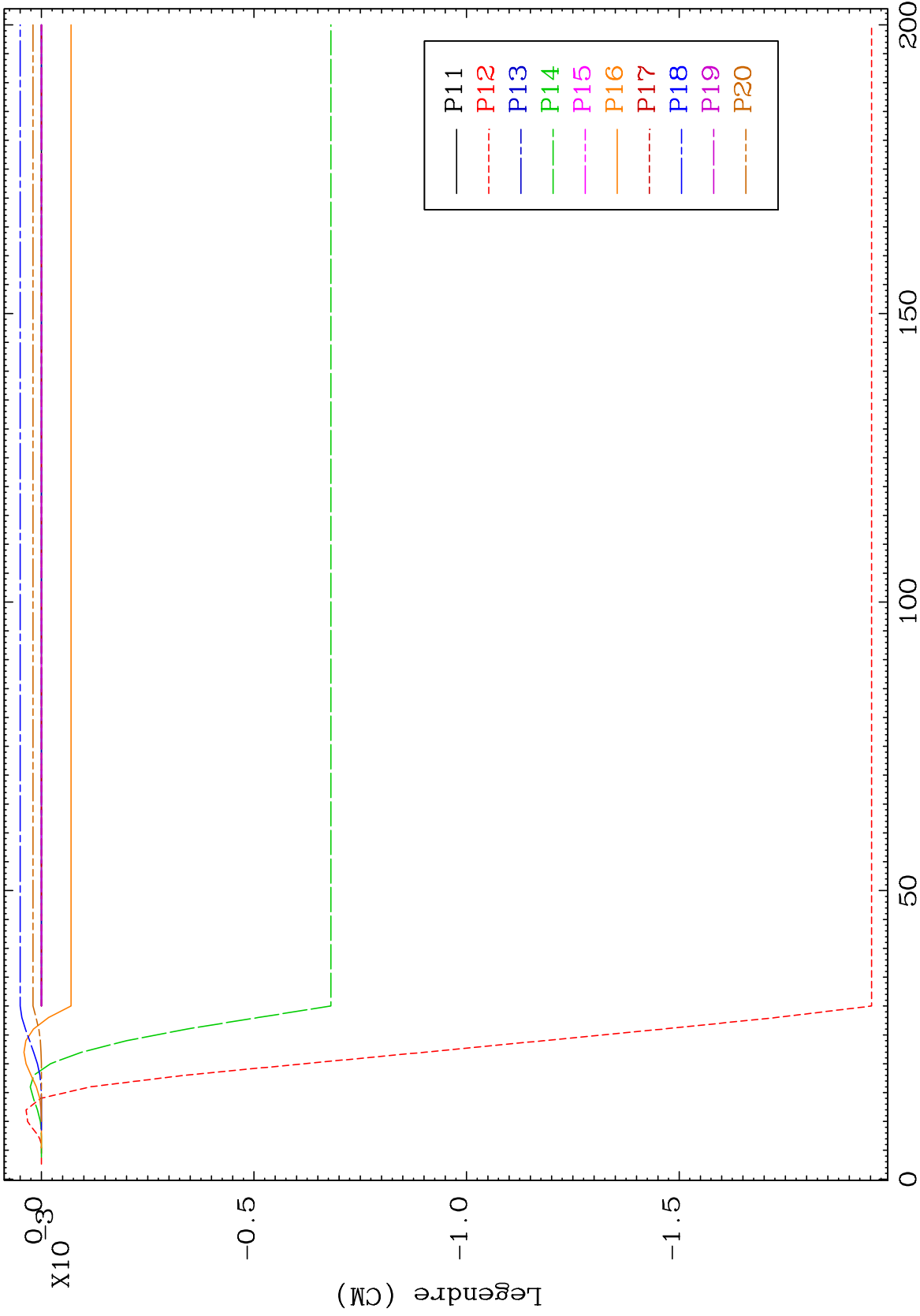
Incident Energy (MeV)

105

MAT 6331

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

63-Eu-153



106

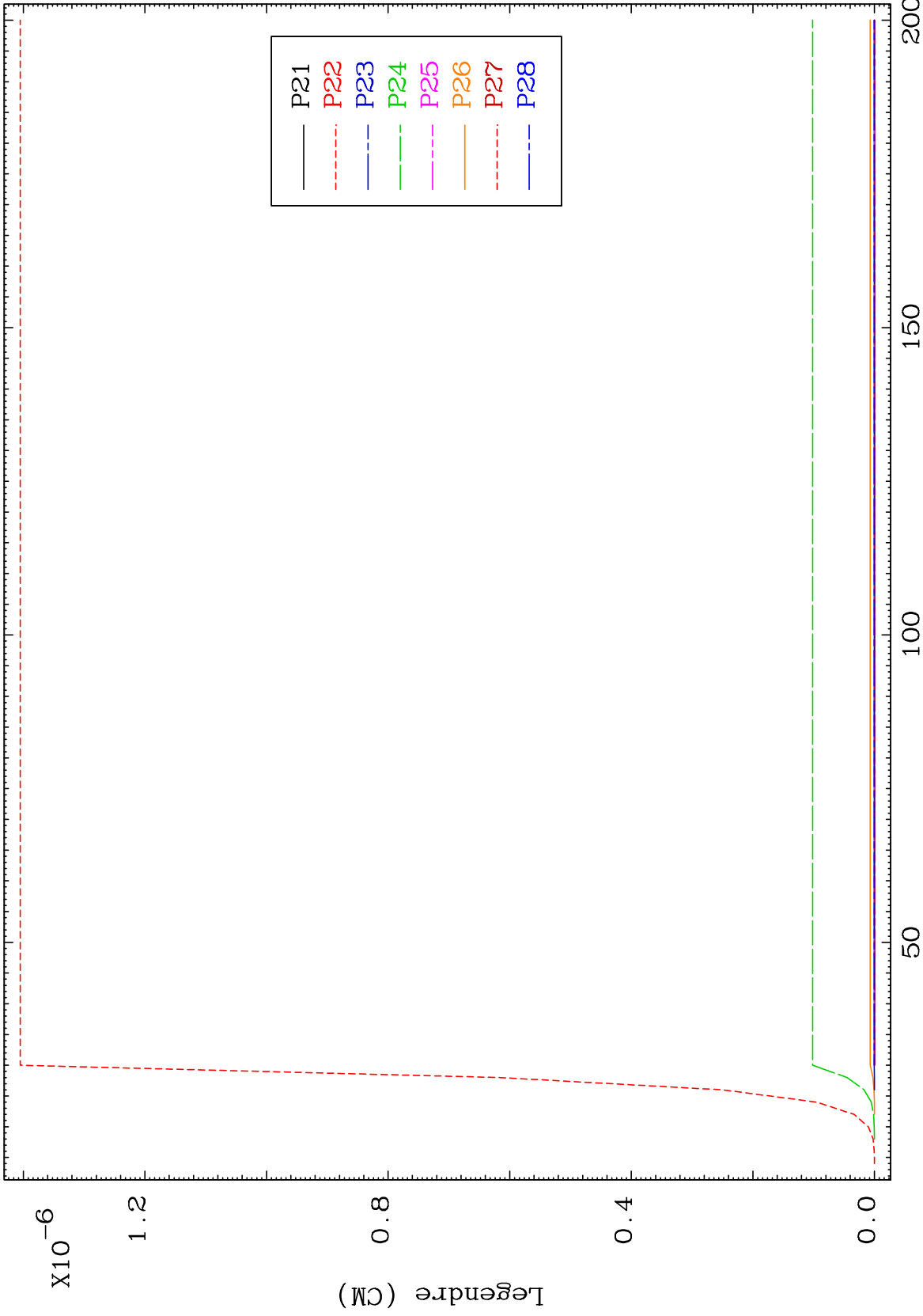
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



107

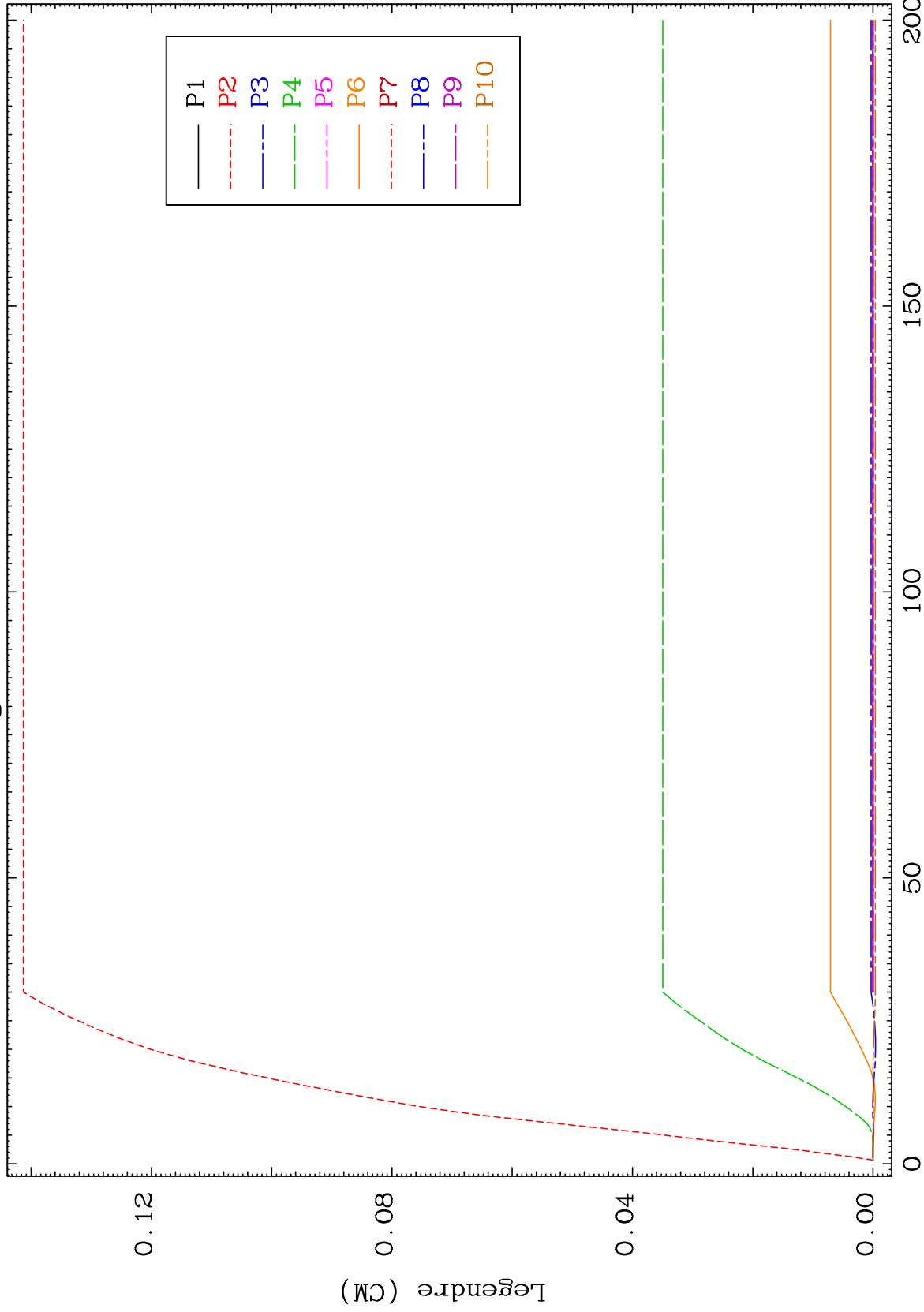
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



63-Eu-153

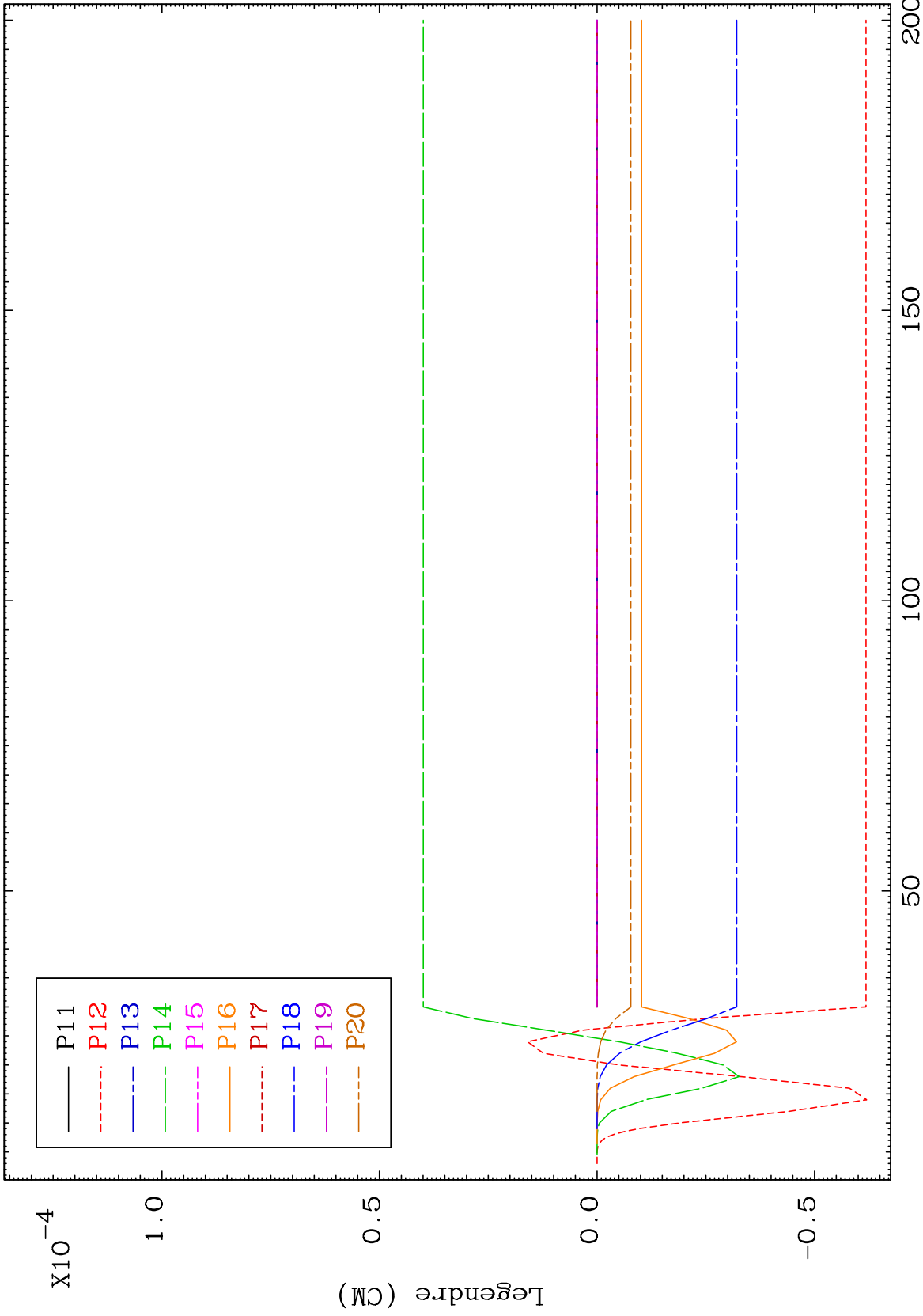
Incident Energy (MeV)

108

MAT 6331

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

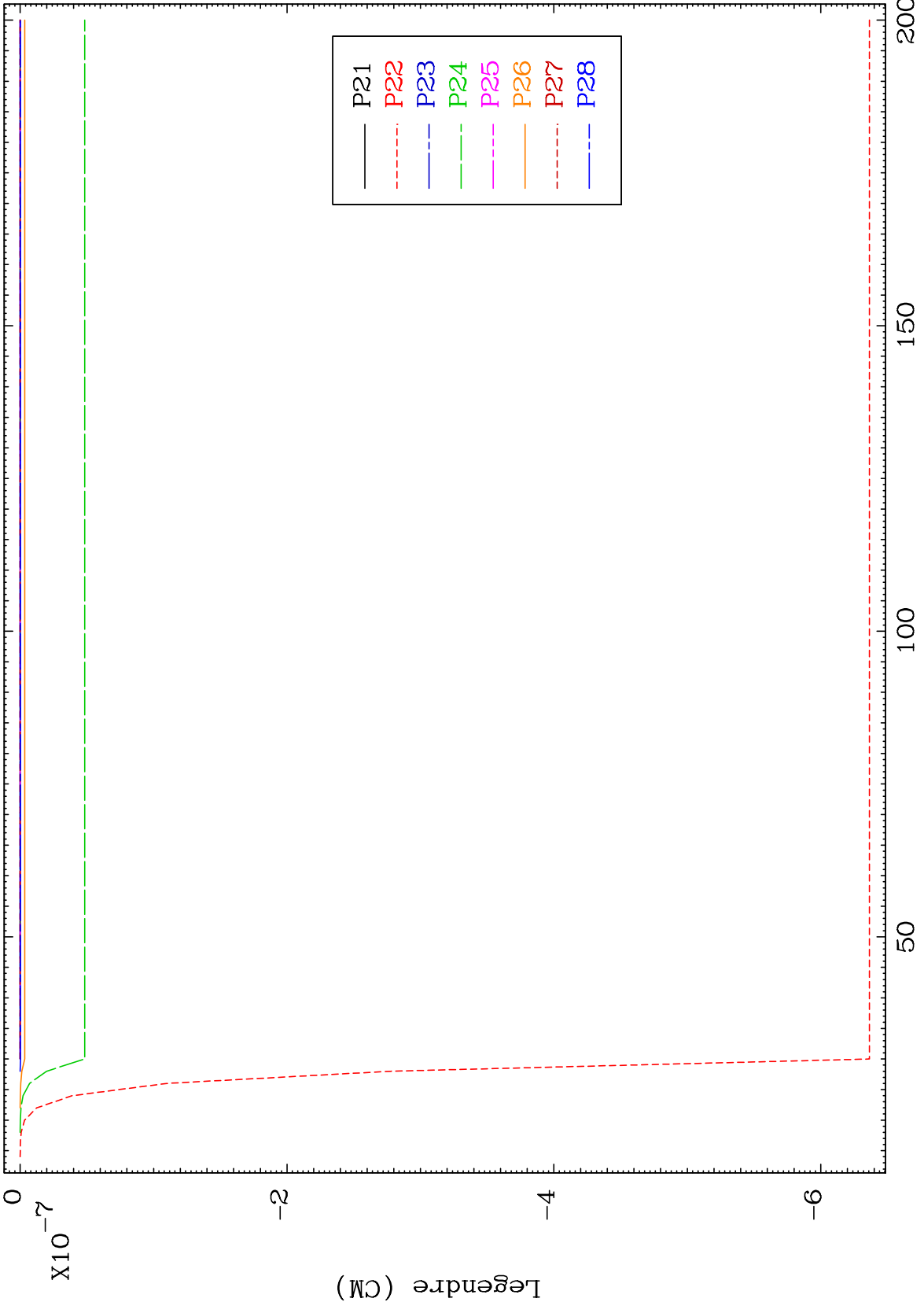
63-Eu-153



109

63-Eu-153

MAT 6331 MT= 75 (n,n') Level Legendre Coefficients 63-Eu-153

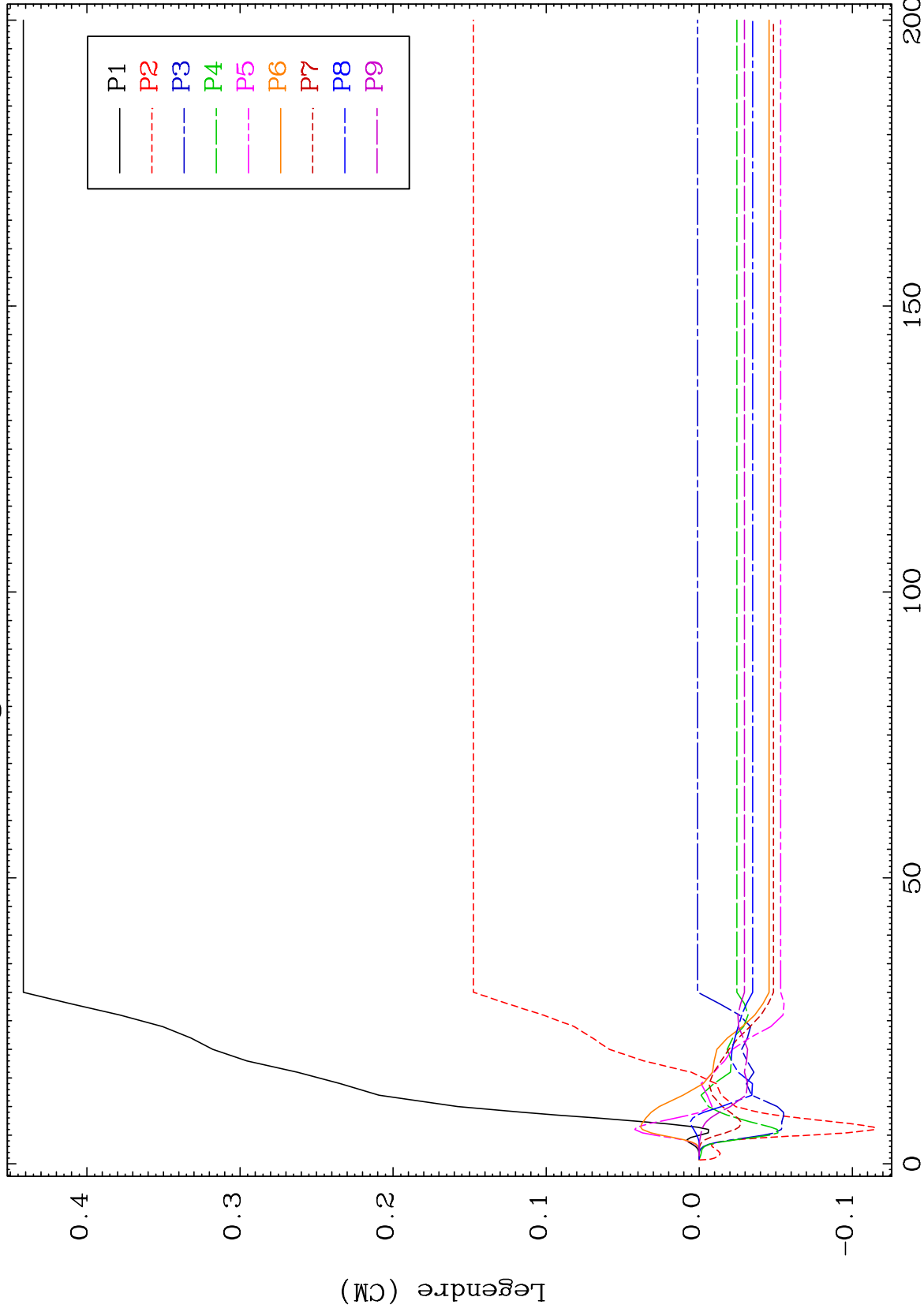


110 63-Eu-153

MAT 6331

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

63-Eu-153



111

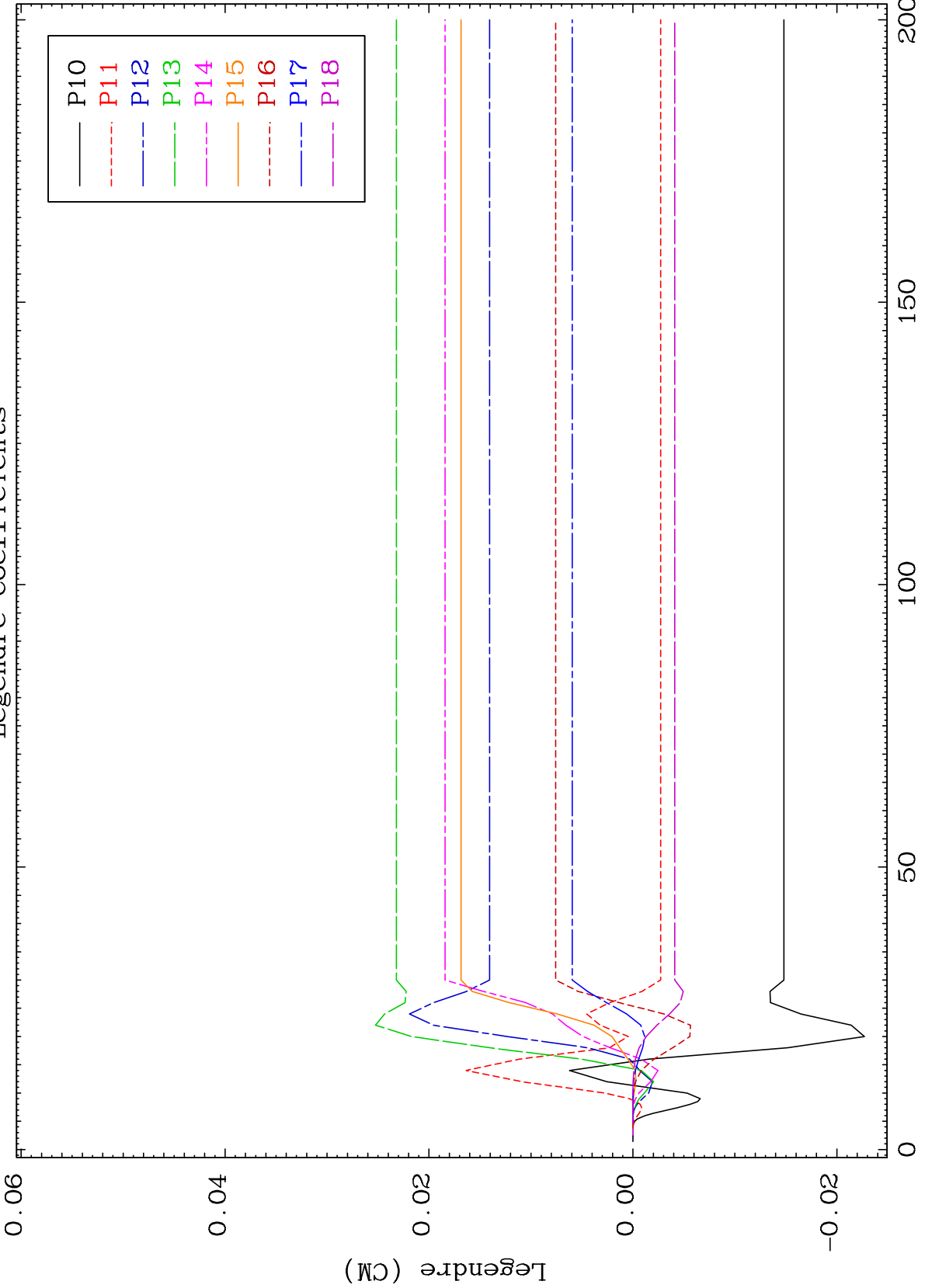
Incident Energy (MeV)

63-Eu-153



MAT 6331 MT= 76 (n,n') Level Legendre Coefficients

63-Eu-153



63-Eu-153

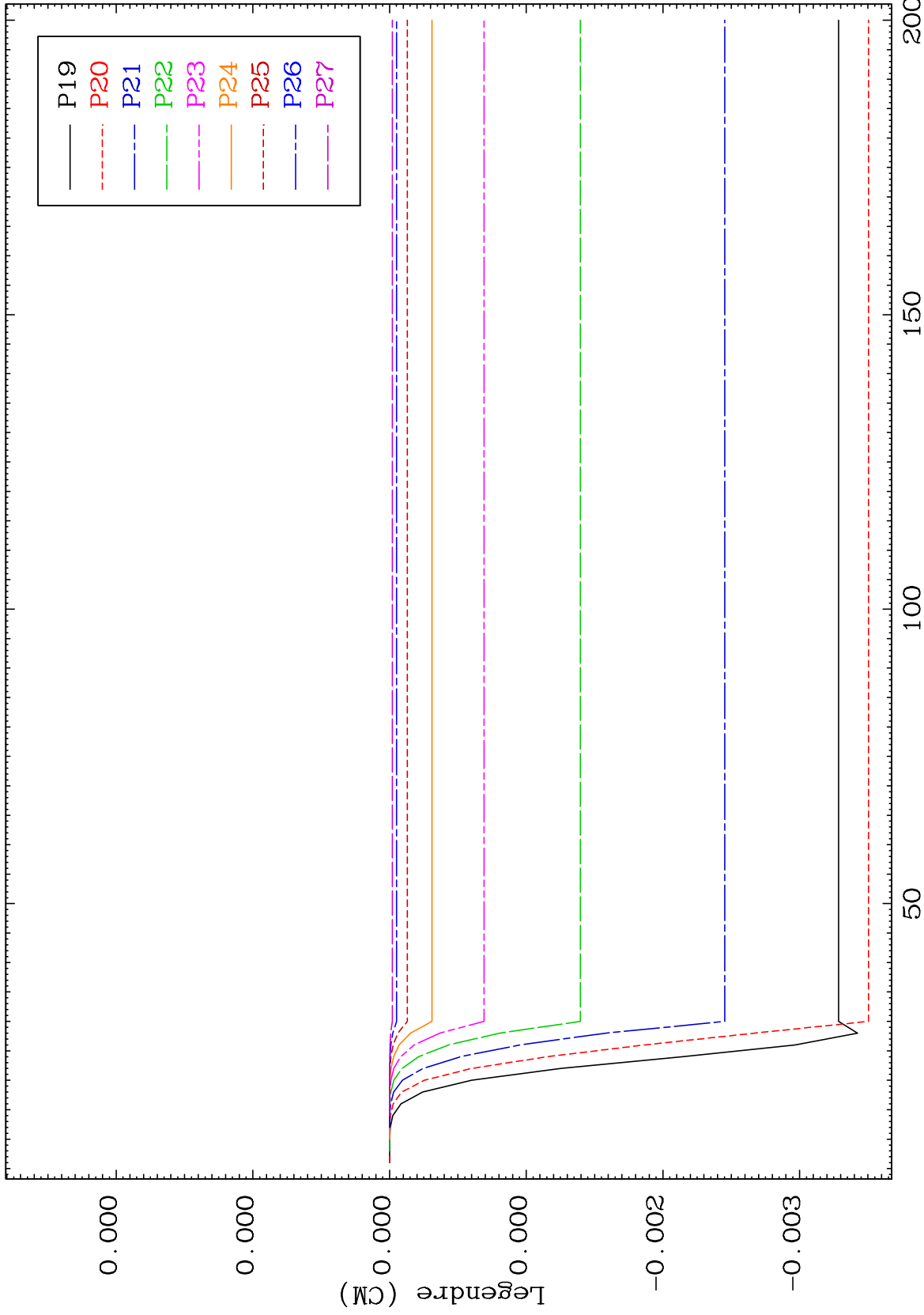
Incident Energy (MeV)

112

MAT 6331

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

63-Eu-153



113

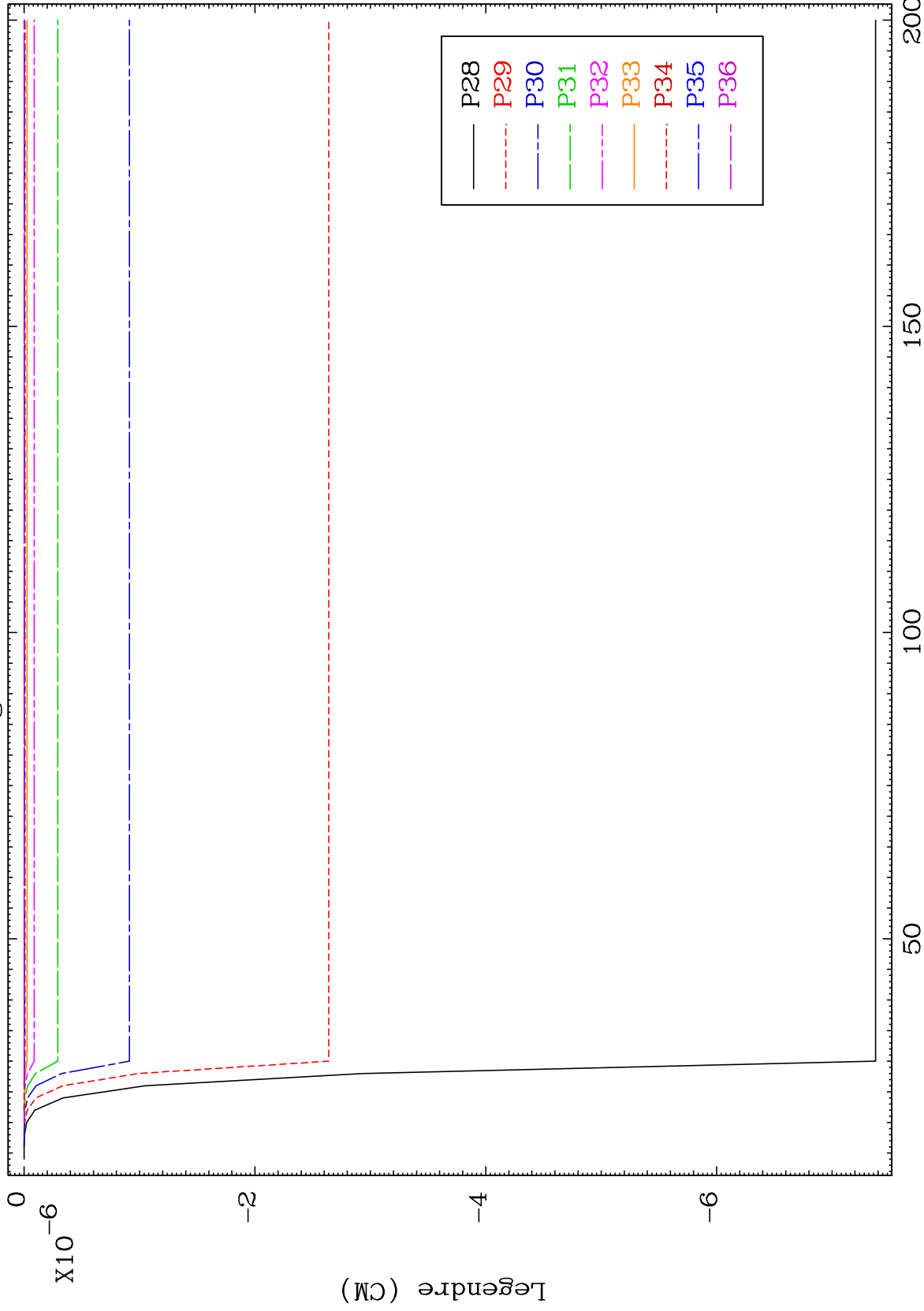
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



63-Eu-153

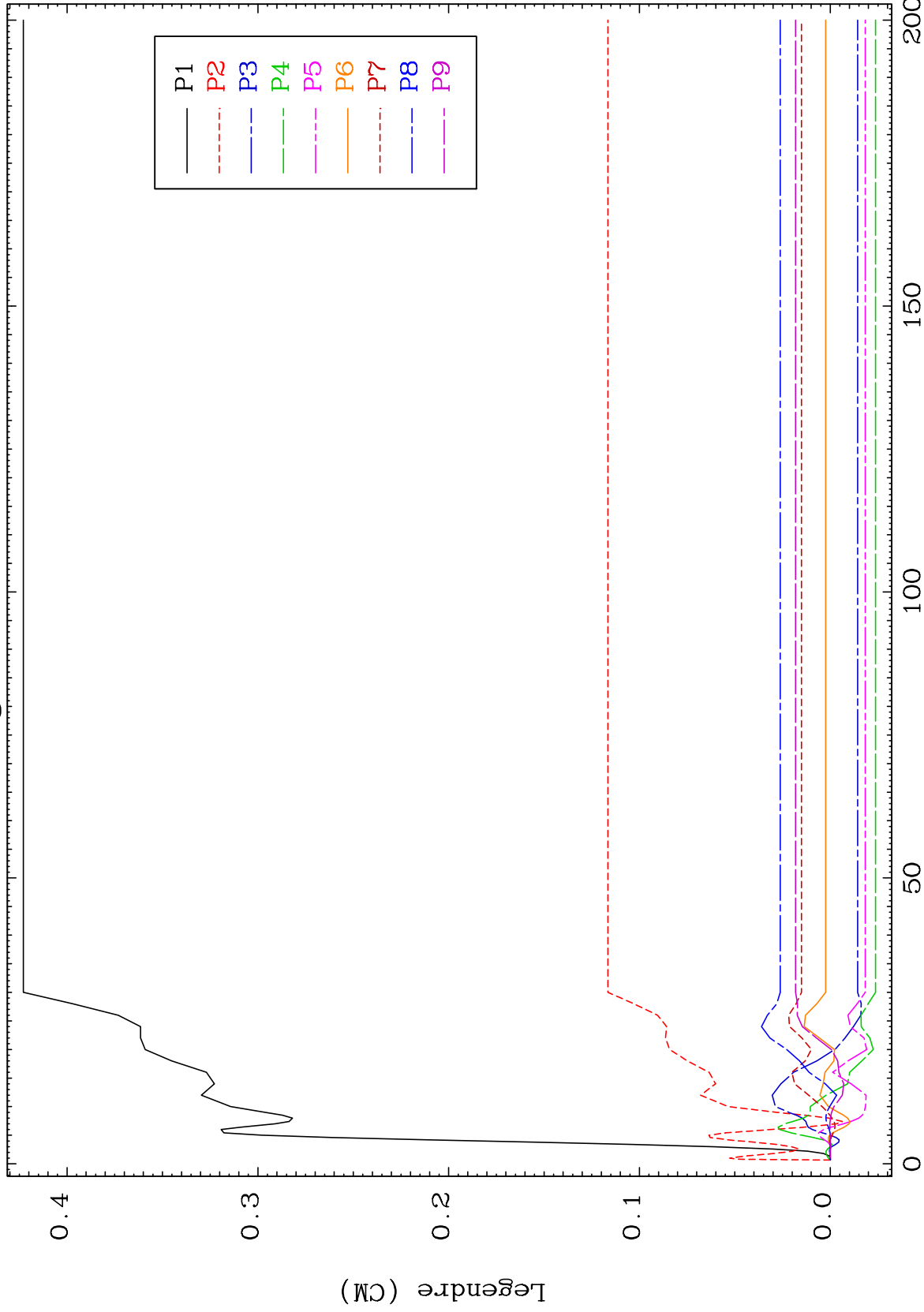
Incident Energy (MeV)

114

MAT 6331

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

63-Eu-153



115

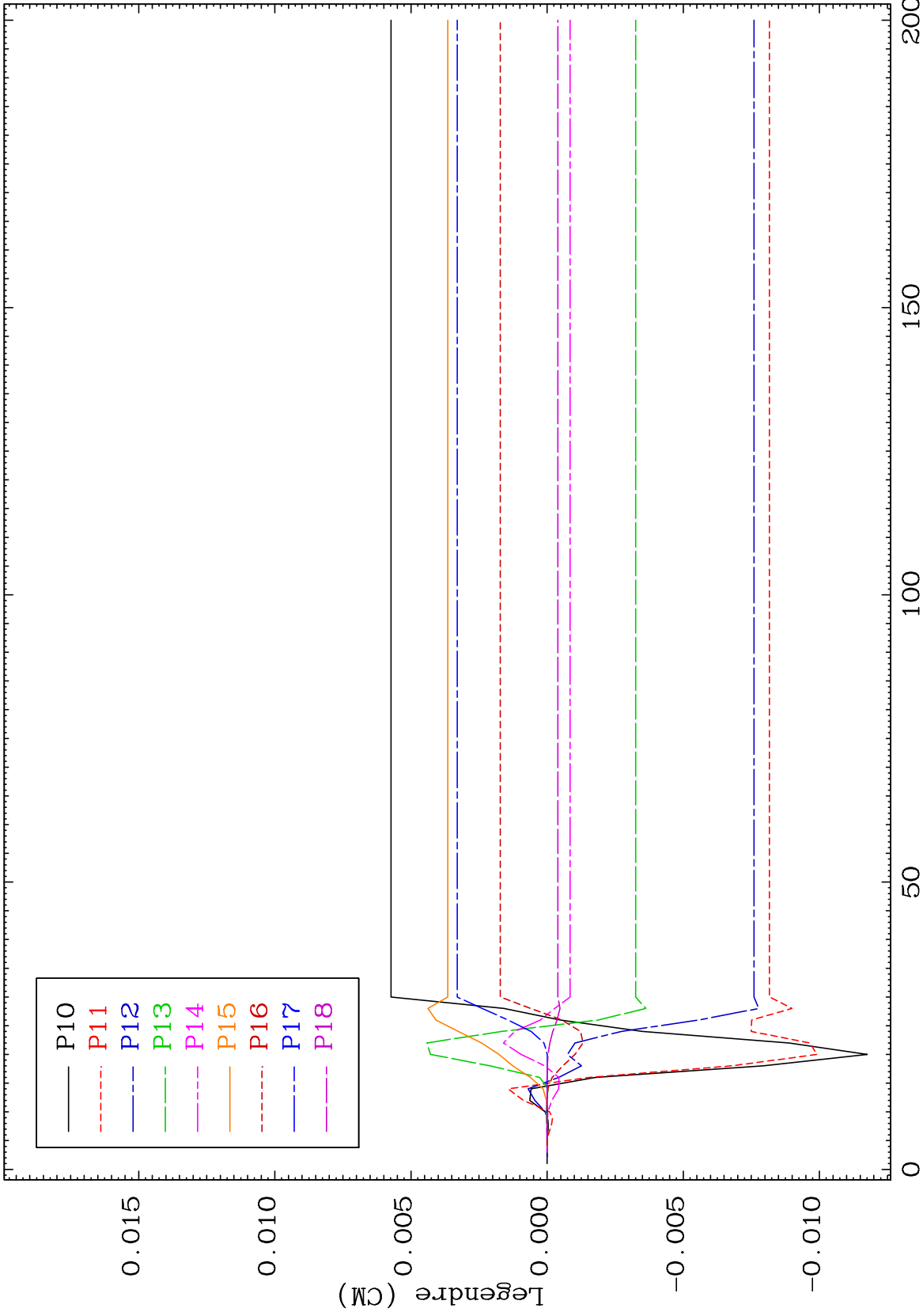
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



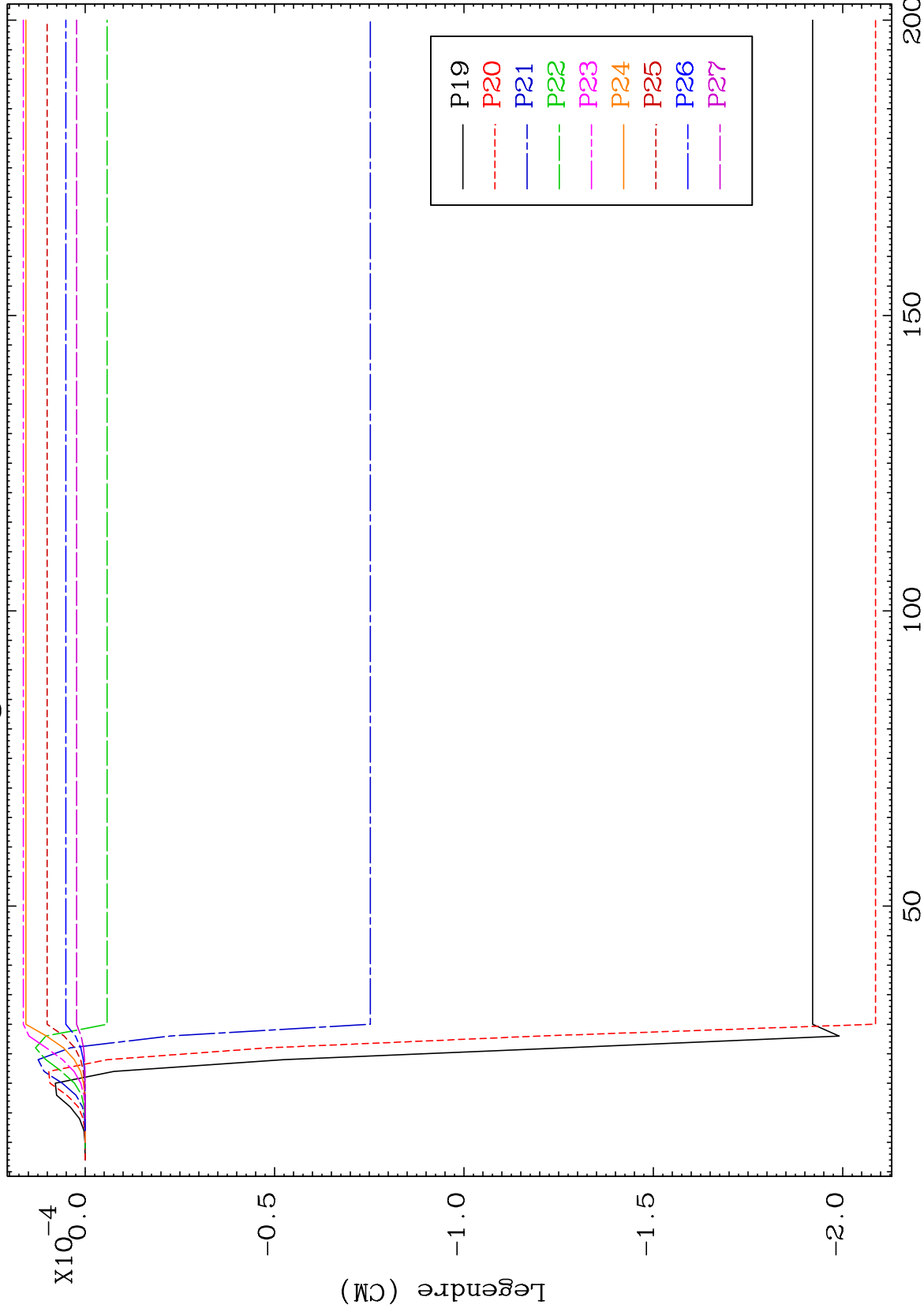
116

63-Eu-153

MAT 6331

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

63-Eu-153



117

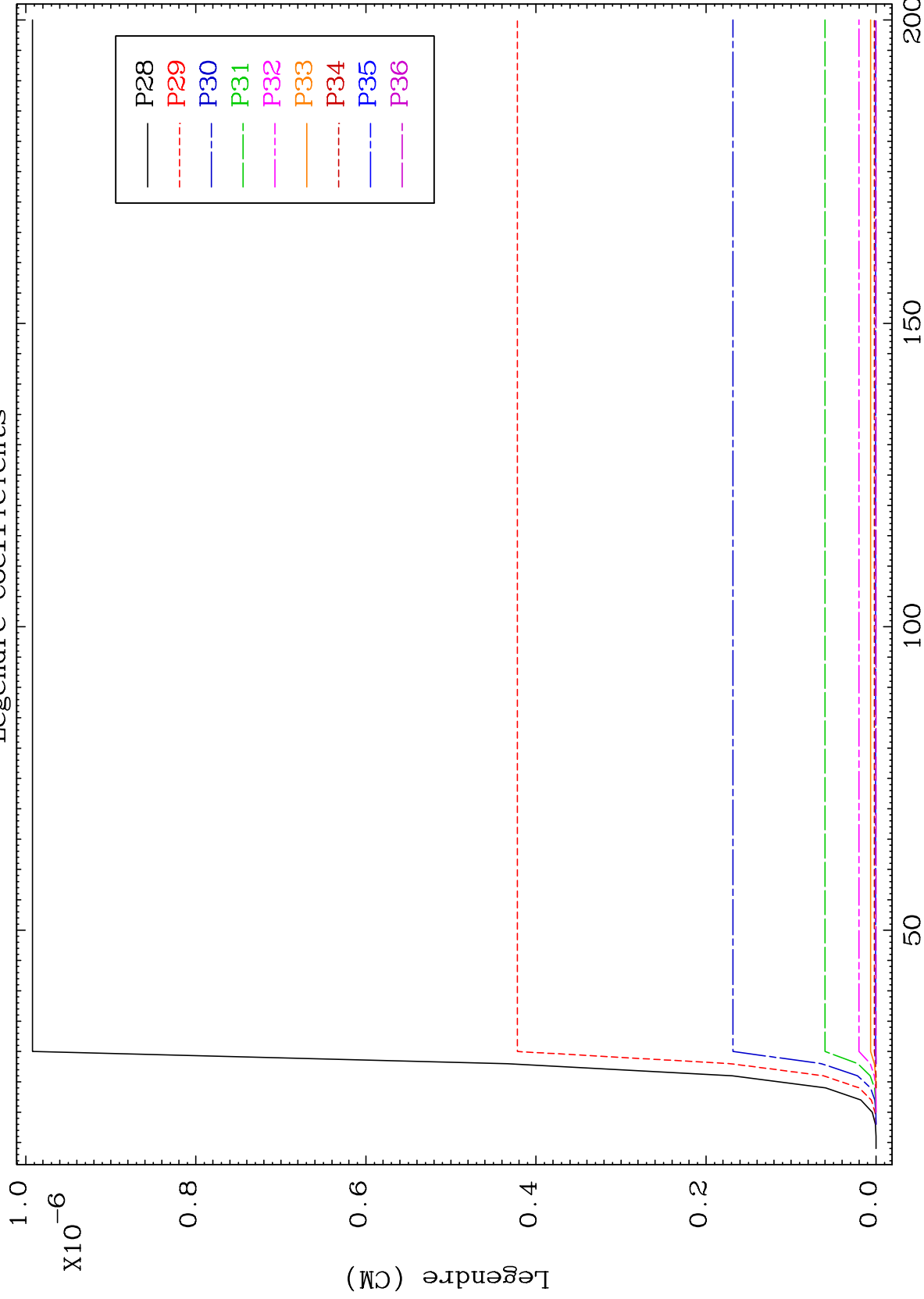
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



118

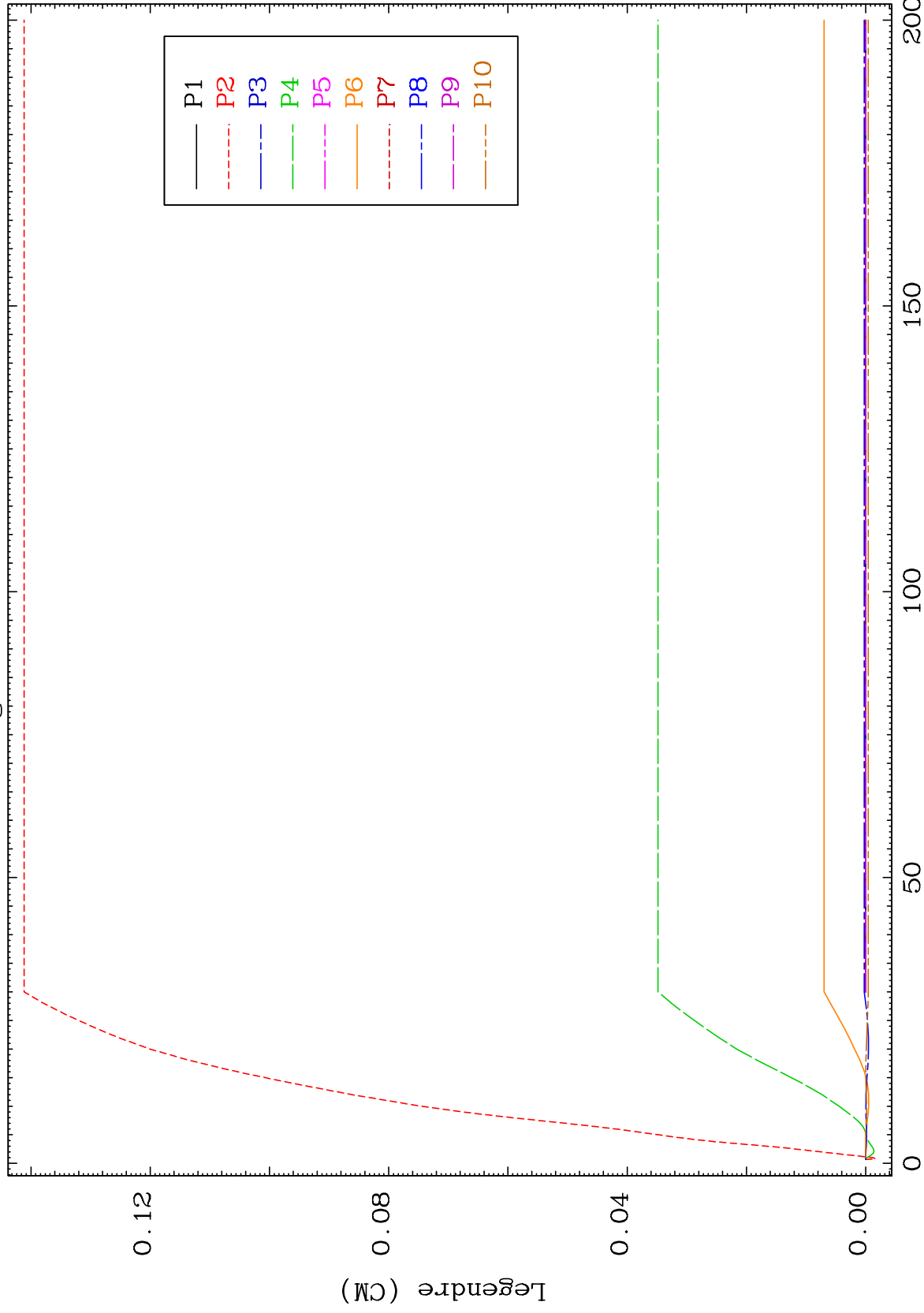
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



63-Eu-153

Incident Energy (MeV)

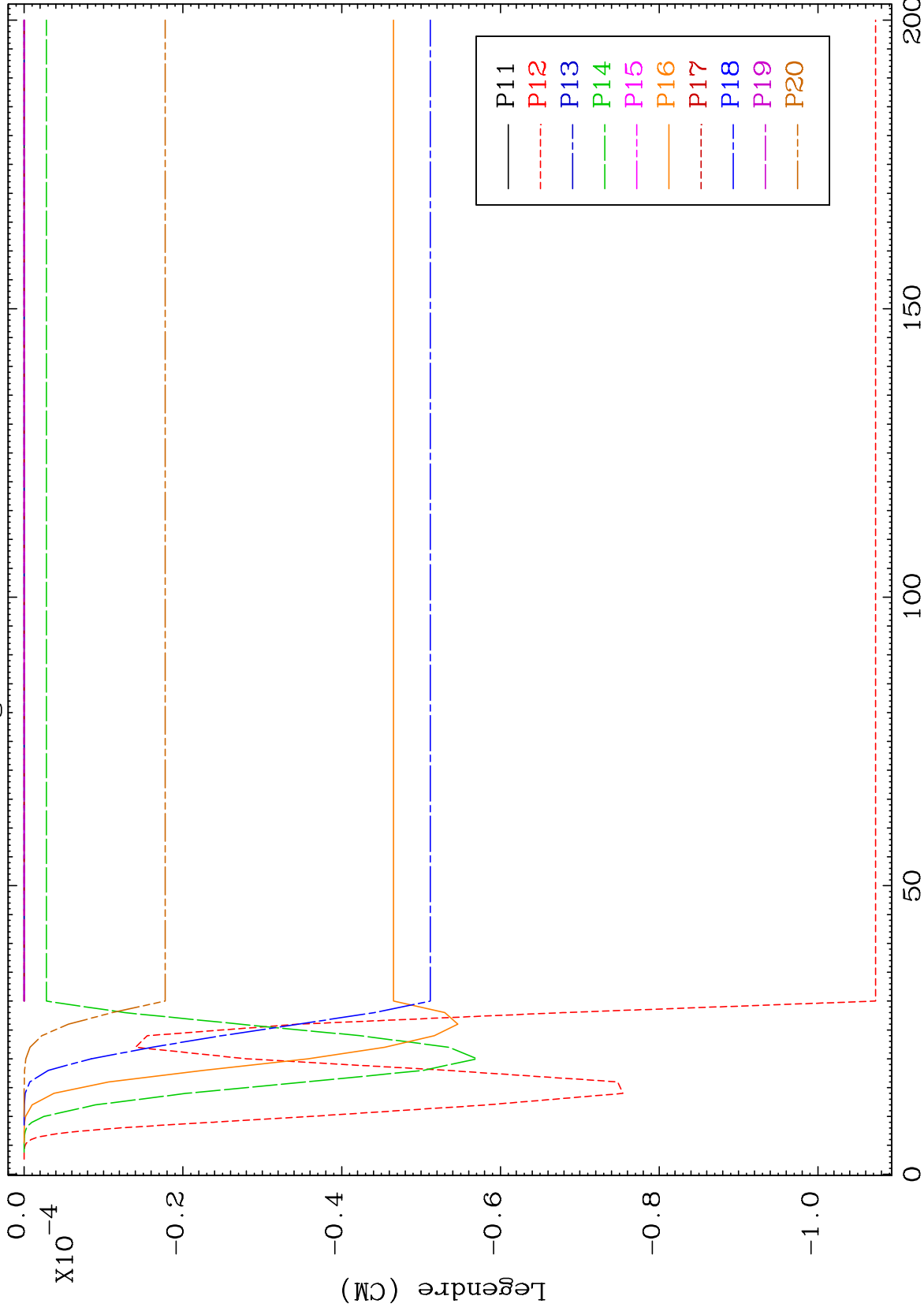
119



MAT 6331

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

63-Eu-153



120

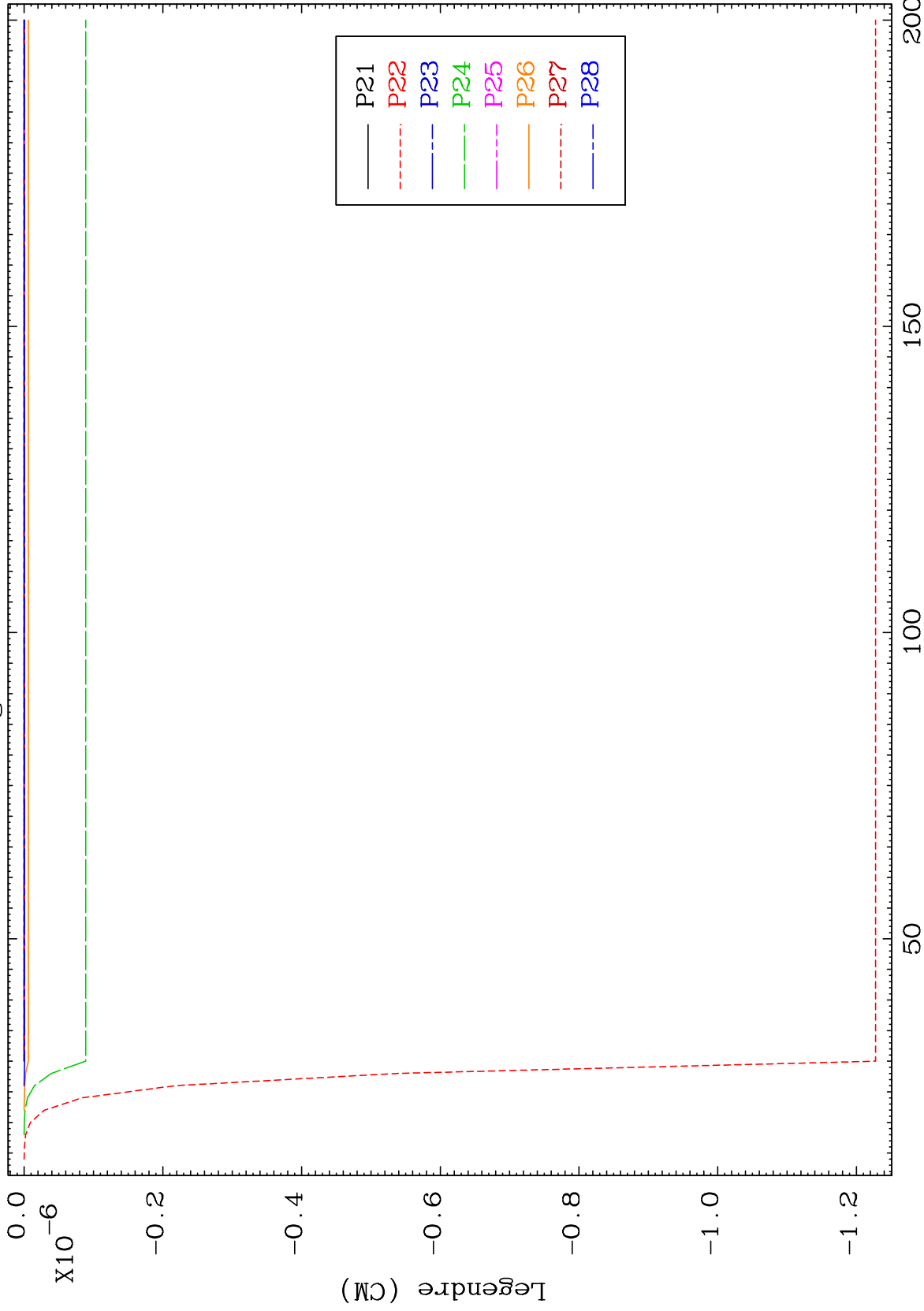
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



121

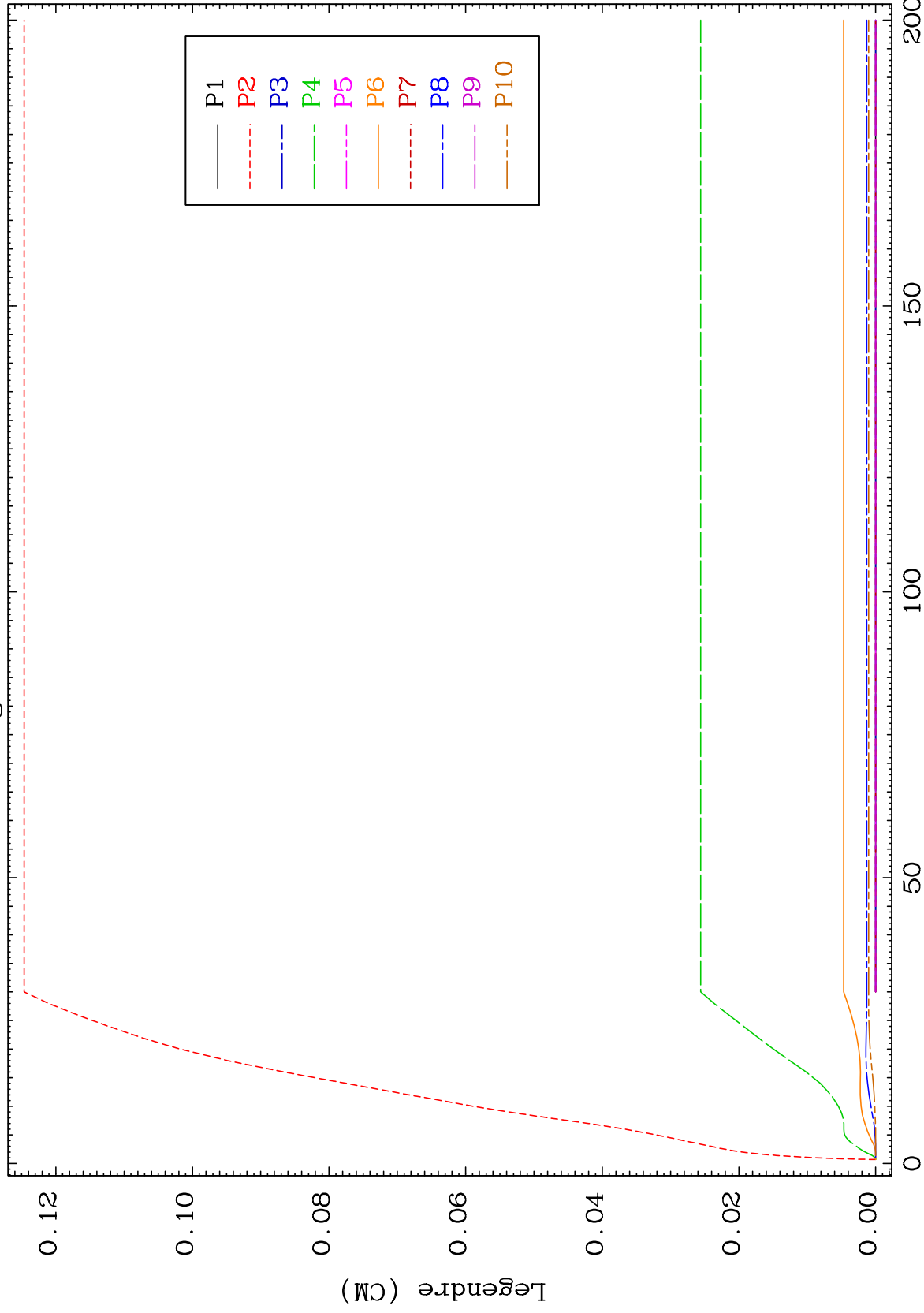
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



122

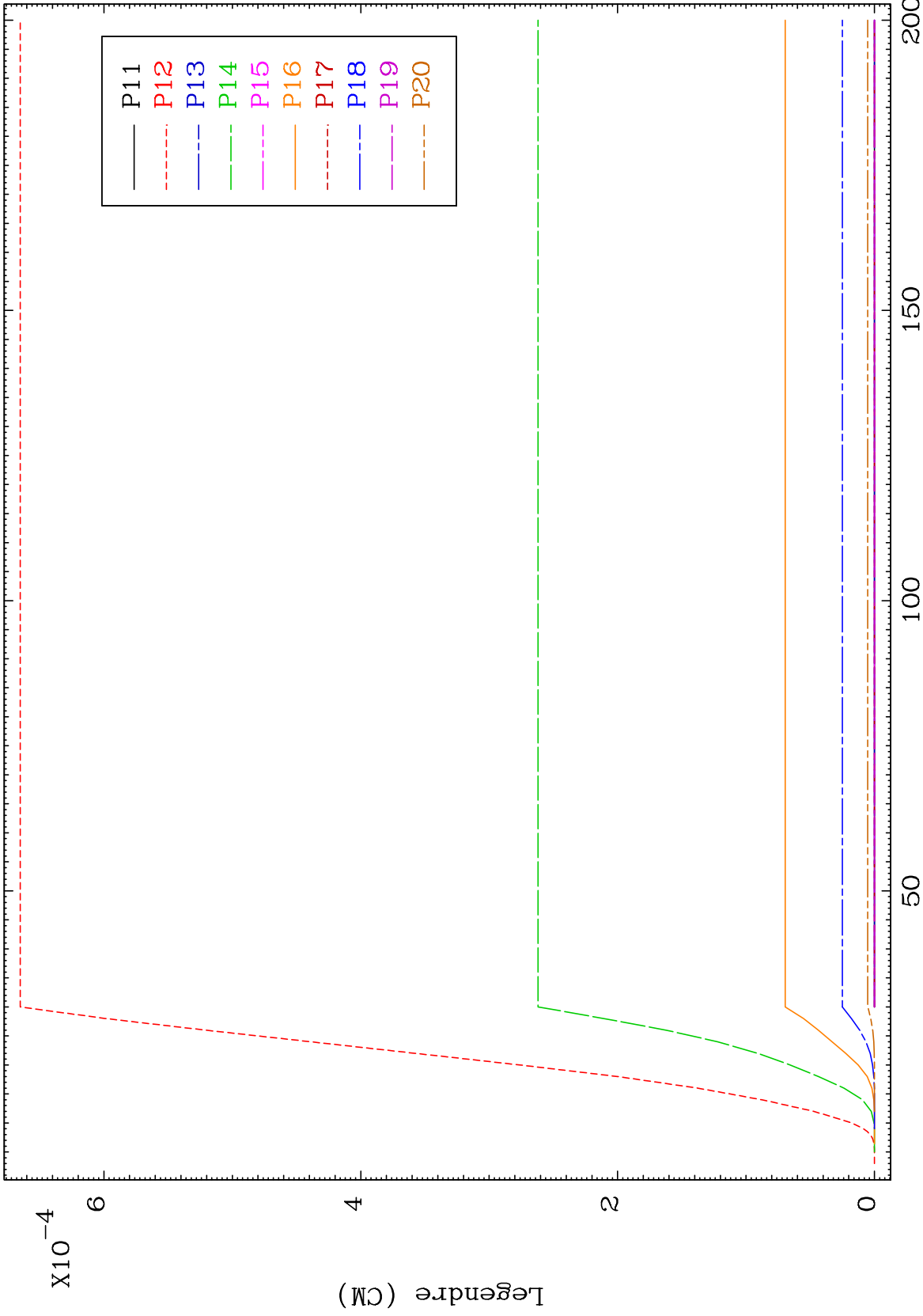
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



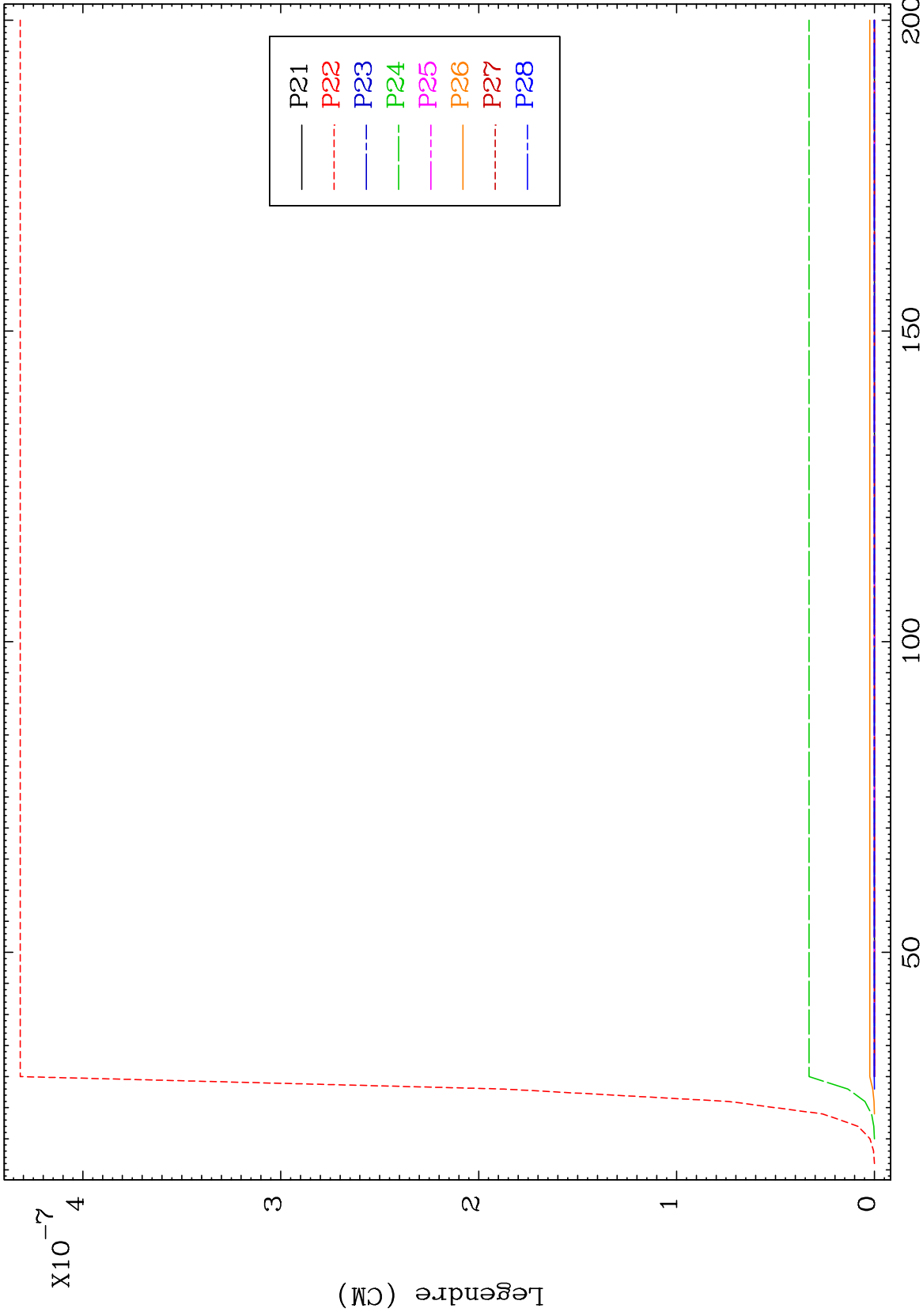
123

63-Eu-153

MAT 6331

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

63-Eu-153

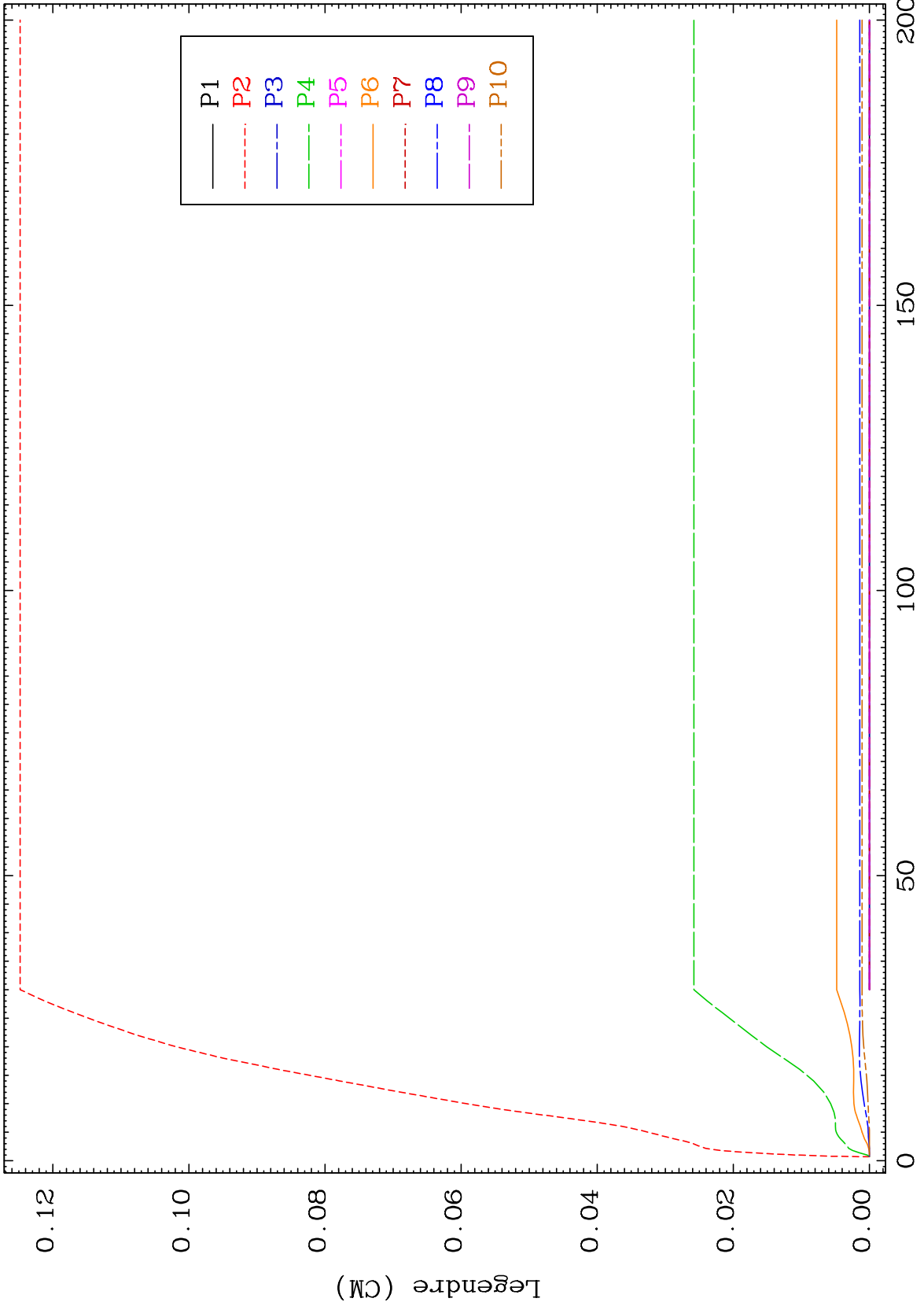


124

Incident Energy (MeV)

63-Eu-153

MAT 6331 MT= 80 (n,n') Level Legendre Coefficients 63-Eu-153

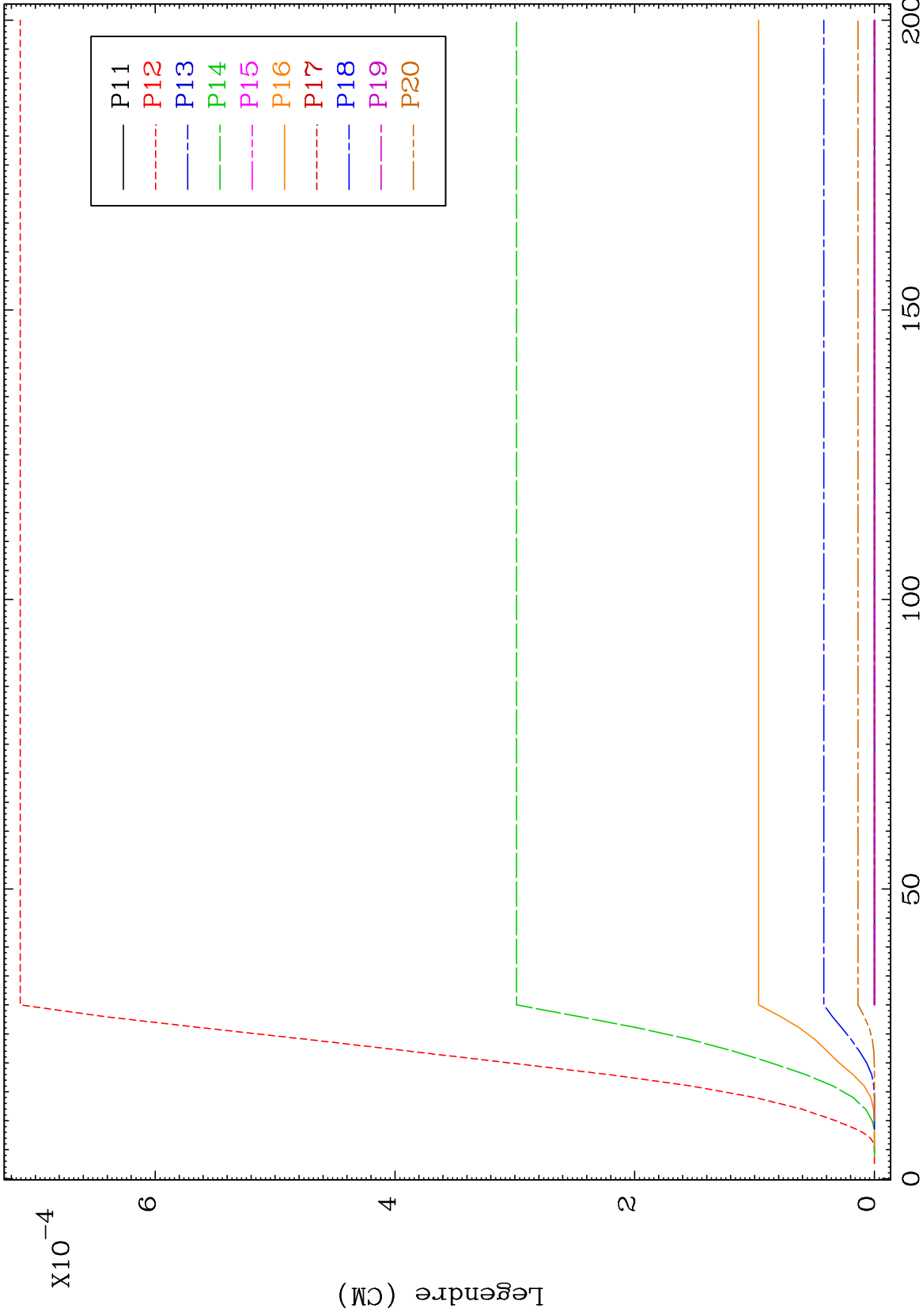


125 Incident Energy (MeV) 63-Eu-153

MAT 6331

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

63-Eu-153



126

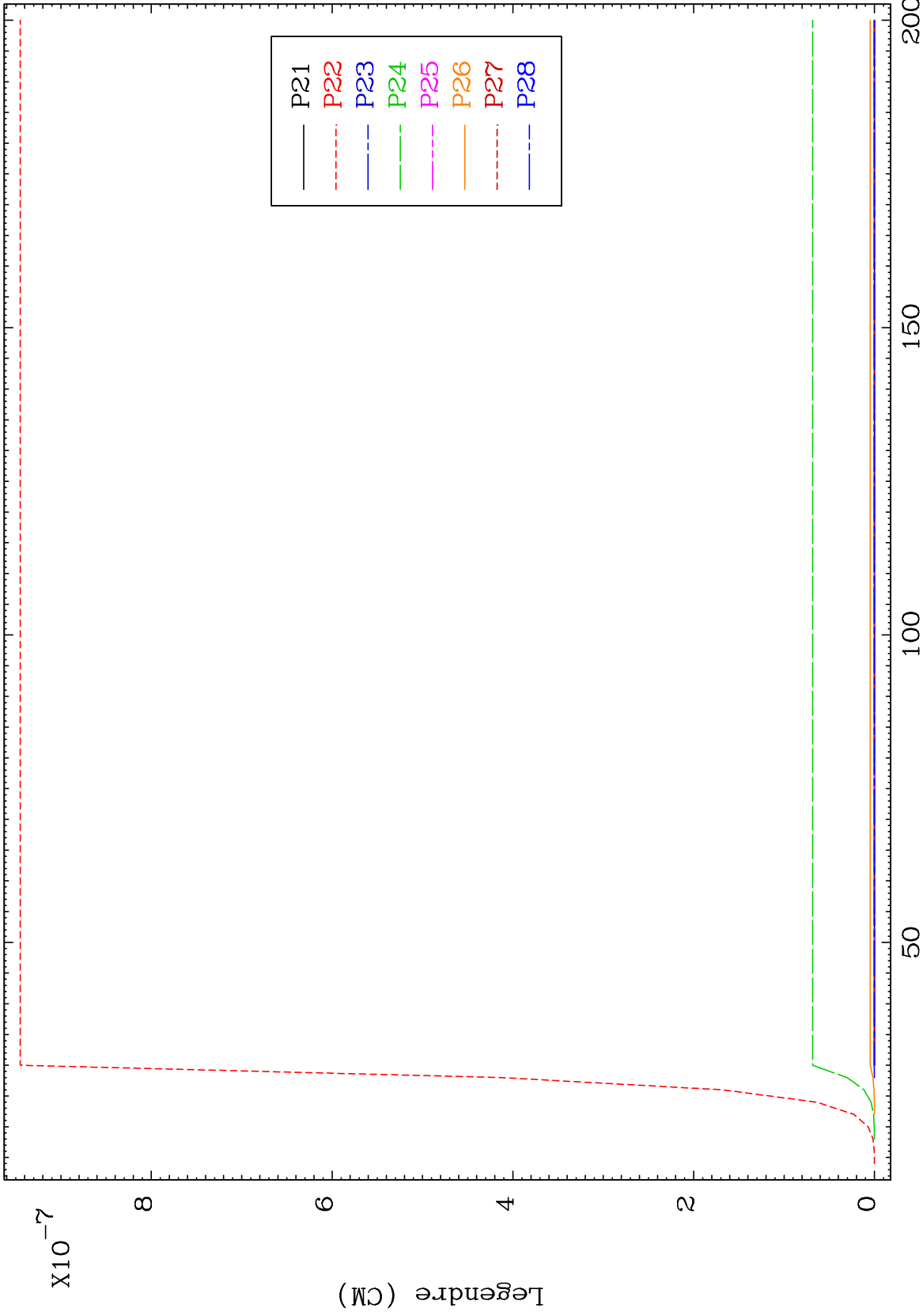
Incident Energy (MeV)

63-Eu-153

MAT 6331

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

63-Eu-153



127

Incident Energy (MeV)

63-Eu-153

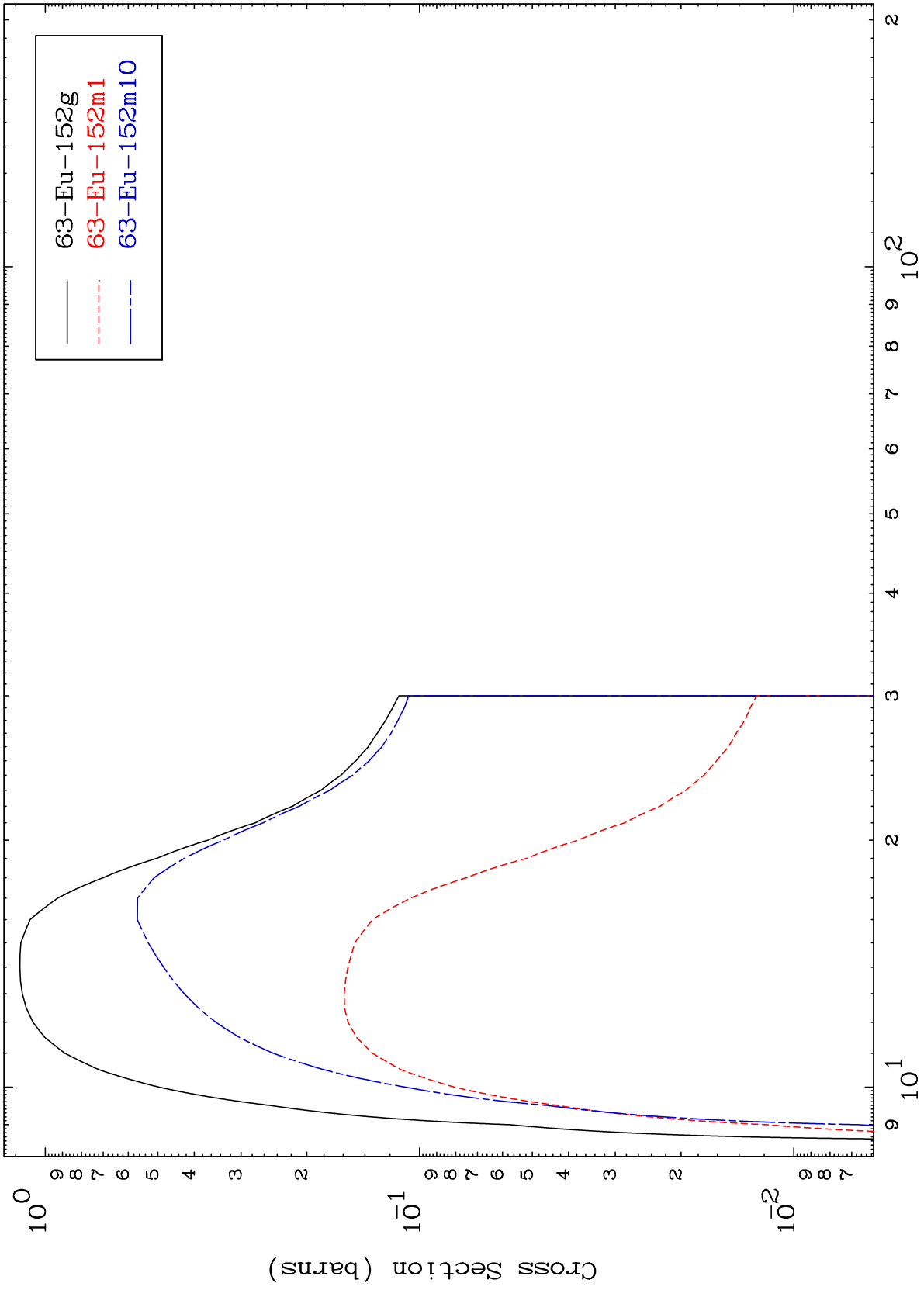


MAT 6331

(n,2n)

63-Eu-153

Radionuclide Production Cross Section



128

Incident Energy (MeV)

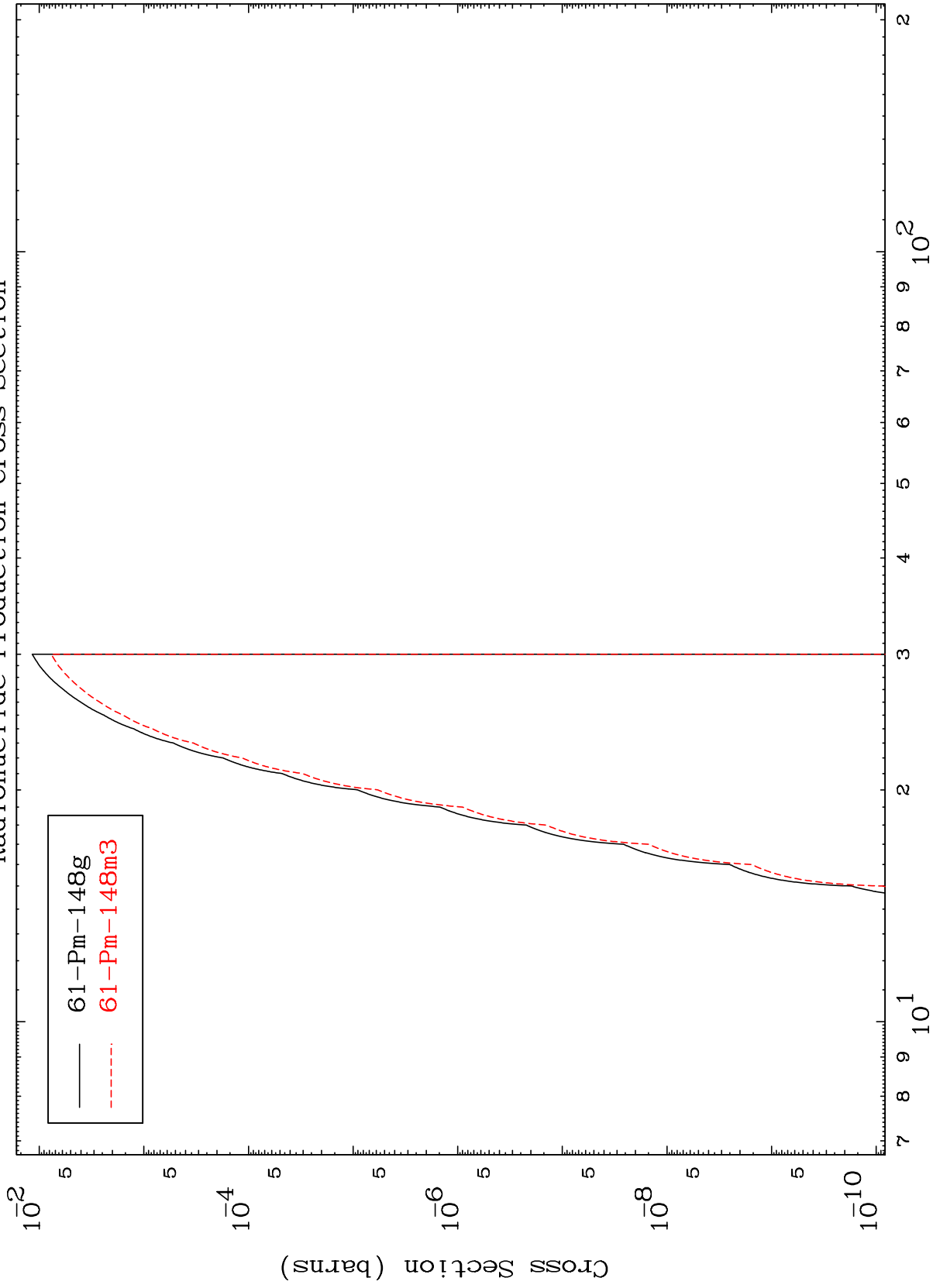
63-Eu-153

MAT 6331

(n,2n)  $\alpha$

63-Eu-153

Radionuclide Production Cross Section



129

Incident Energy (MeV)

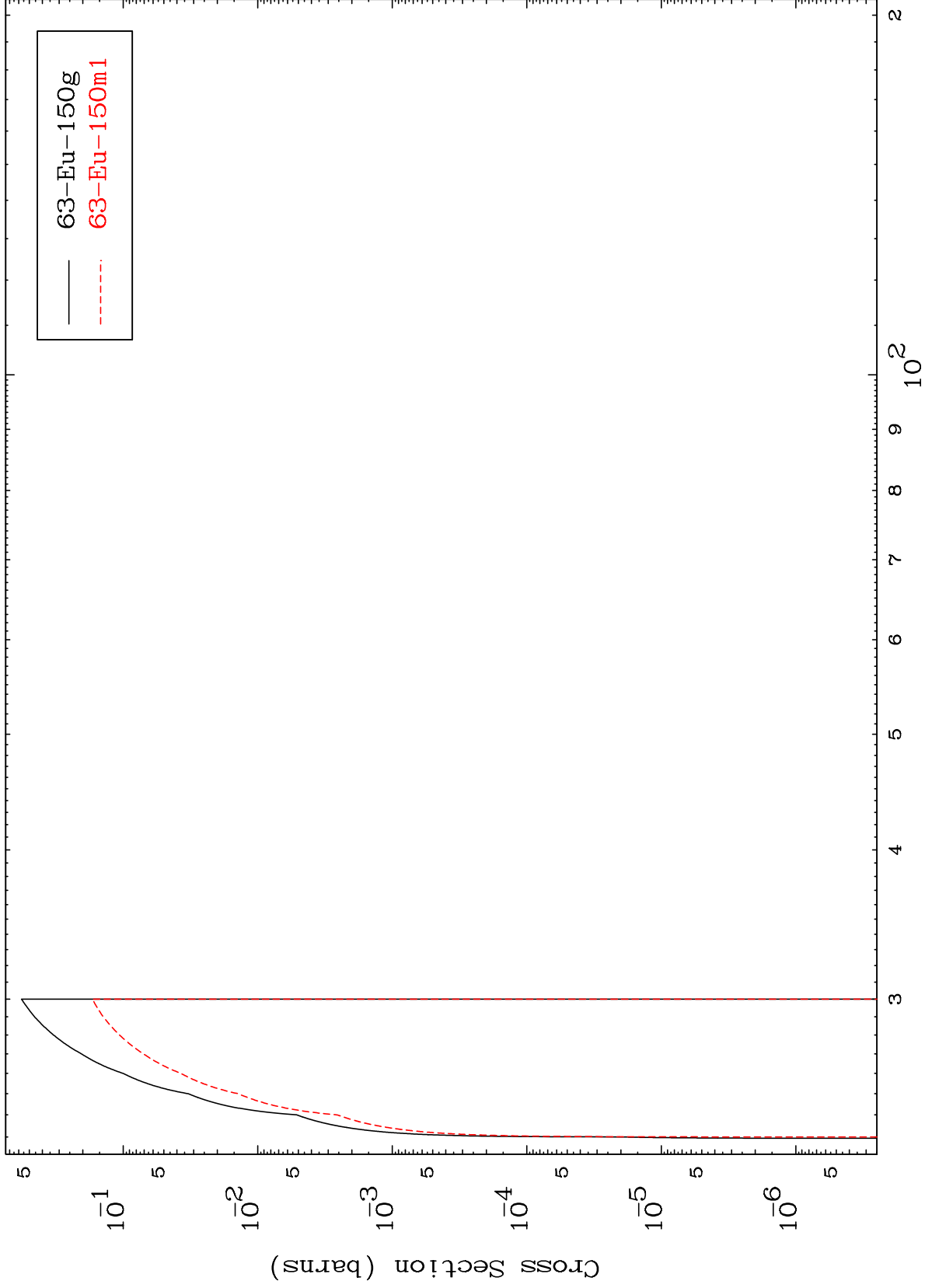
63-Eu-153

MAT 6331

(n,4n)

63-Eu-153

Radionuclide Production Cross Section



130

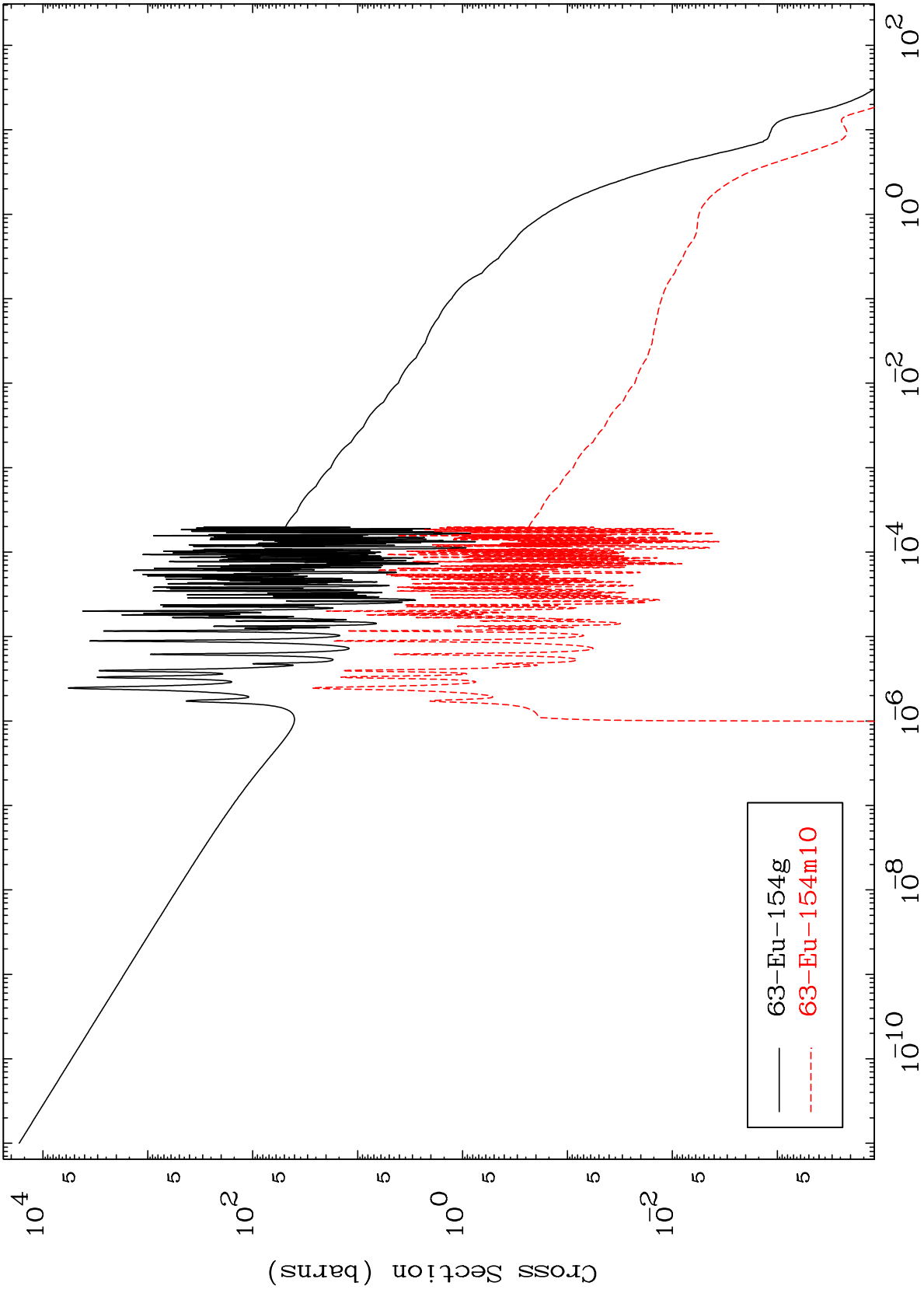
Incident Energy (MeV)

63-Eu-153

MAT 6331

63-Eu-153

(n,γ)  
Radionuclide Production Cross Section



63-Eu-153

Incident Energy (MeV)

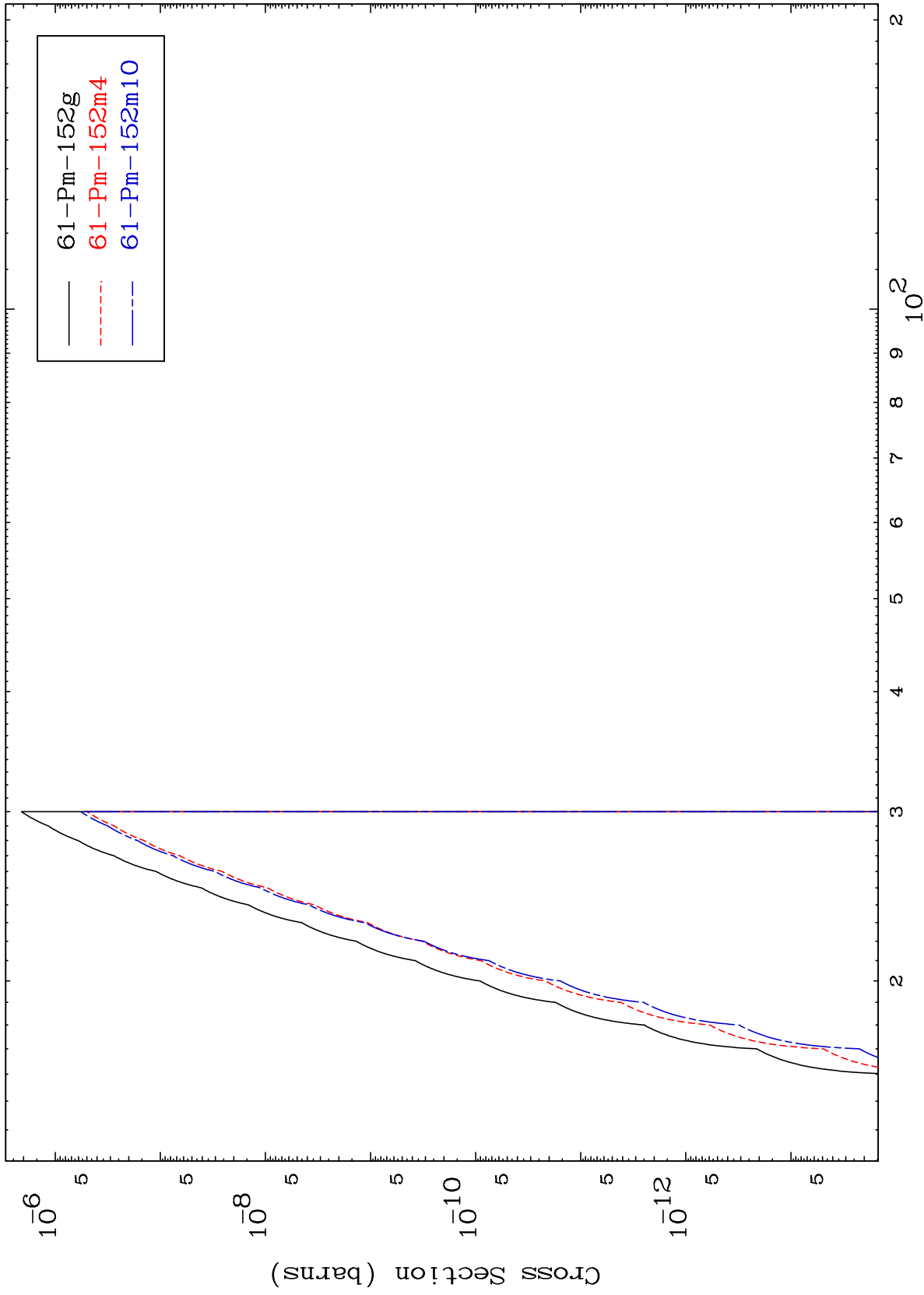
131

MAT 6331

(n,2p)

63-Eu-153

Radionuclide Production Cross Section



132

Incident Energy (MeV)

63-Eu-153