

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

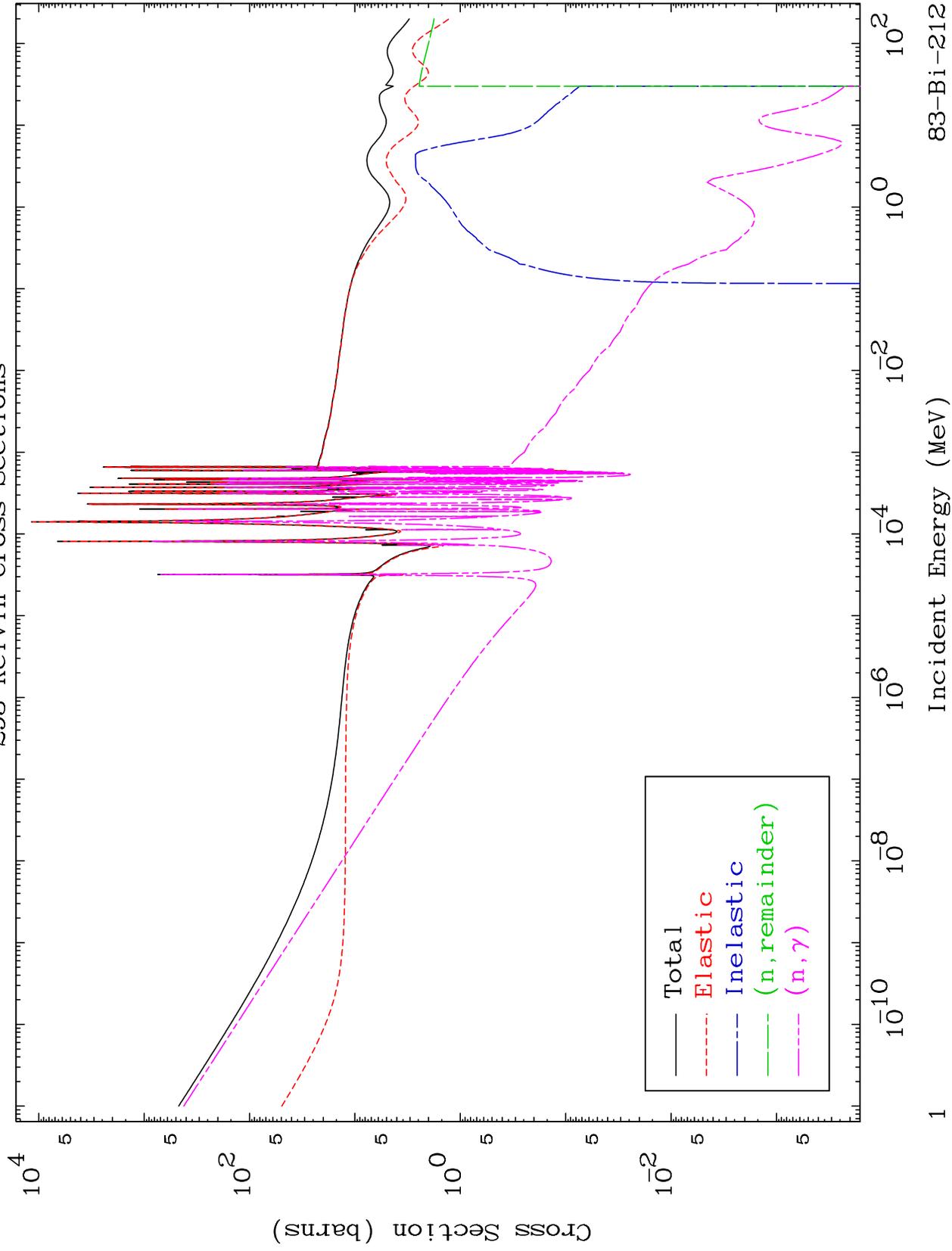
Press Mouse Button to Start

MAT 8334

Major

293 Kelvin Cross Sections

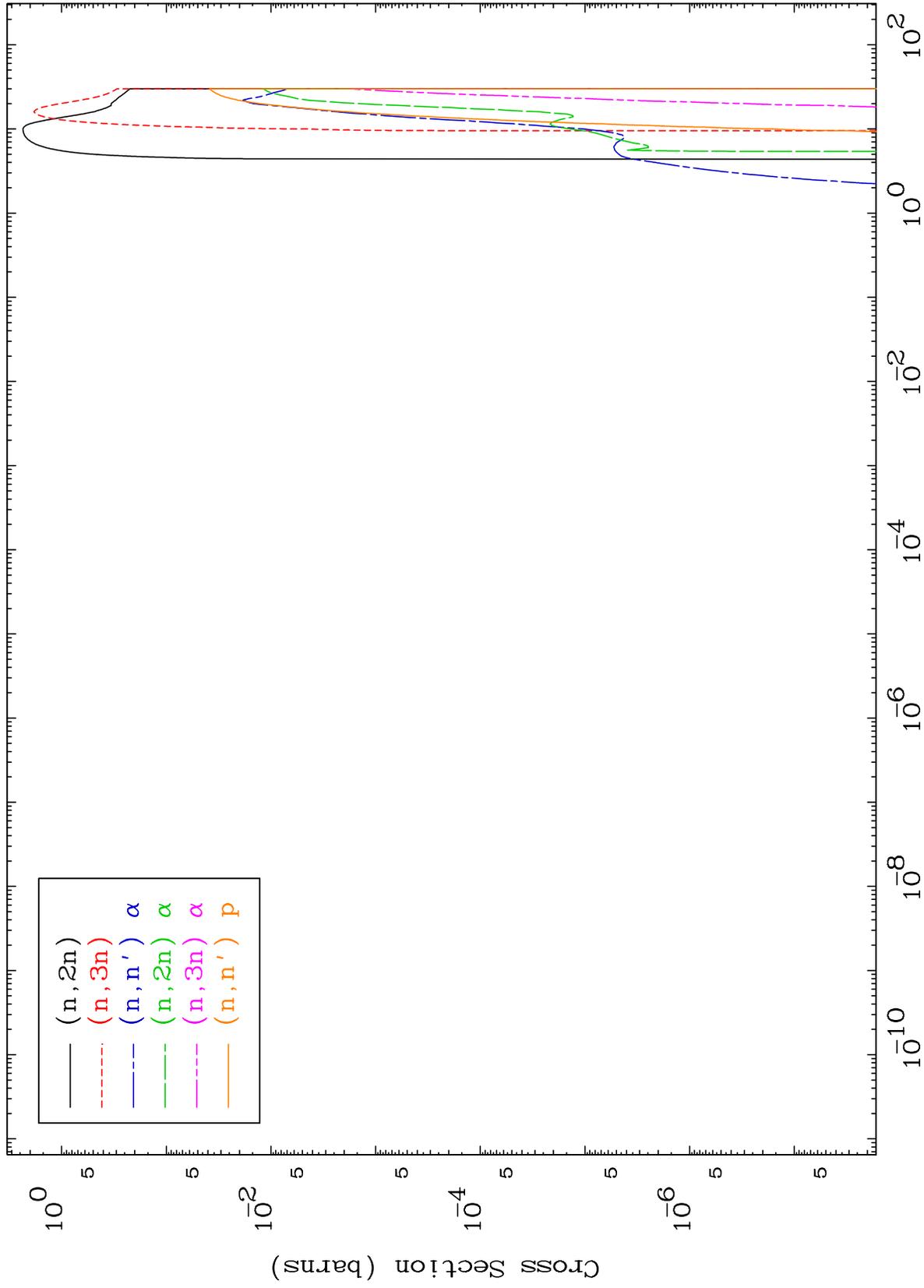
83-Bi-212



MAT 8334

Neutron Production  
293 Kelvin Cross Sections

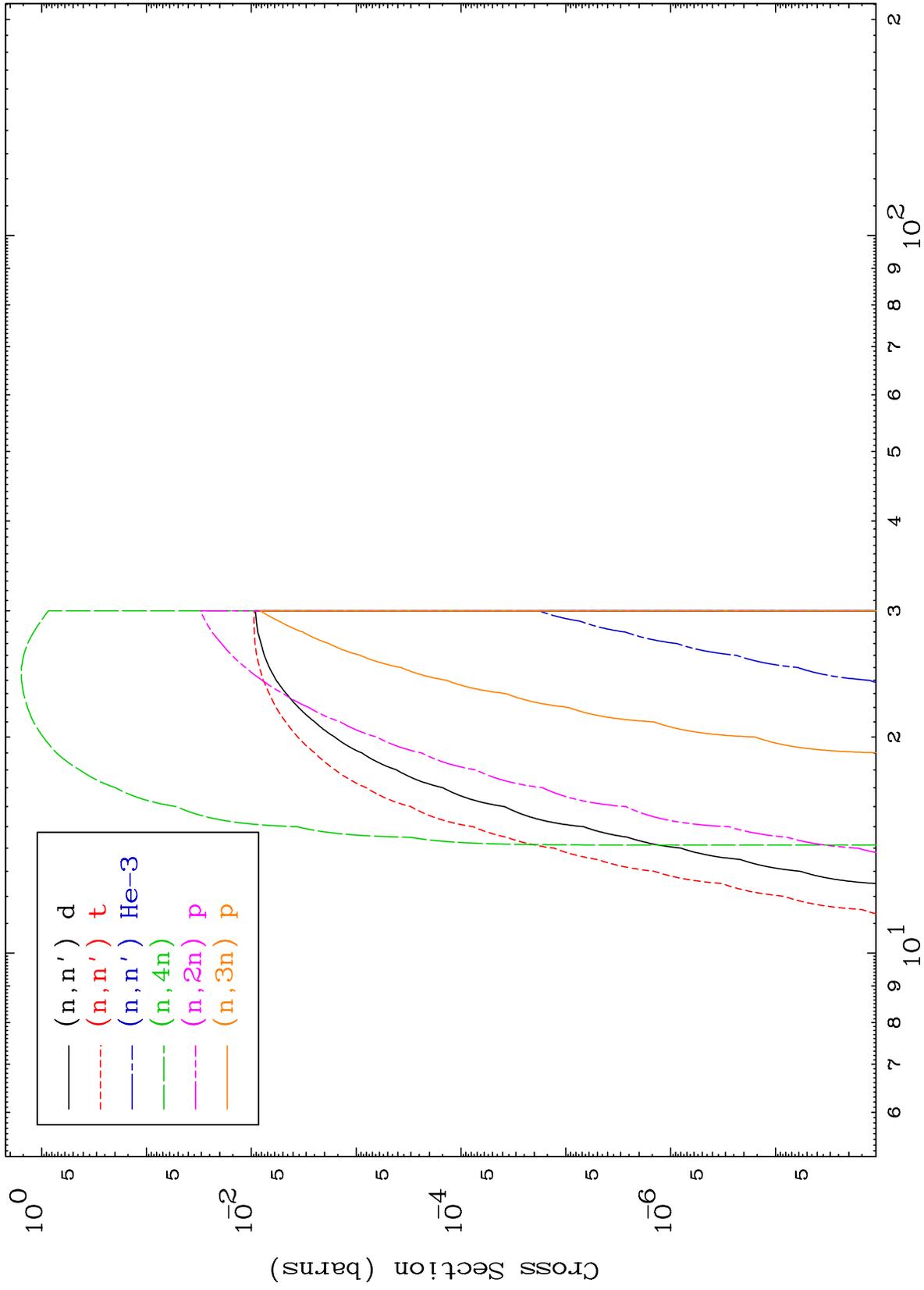
83-Bi-212



2

Incident Energy (MeV)

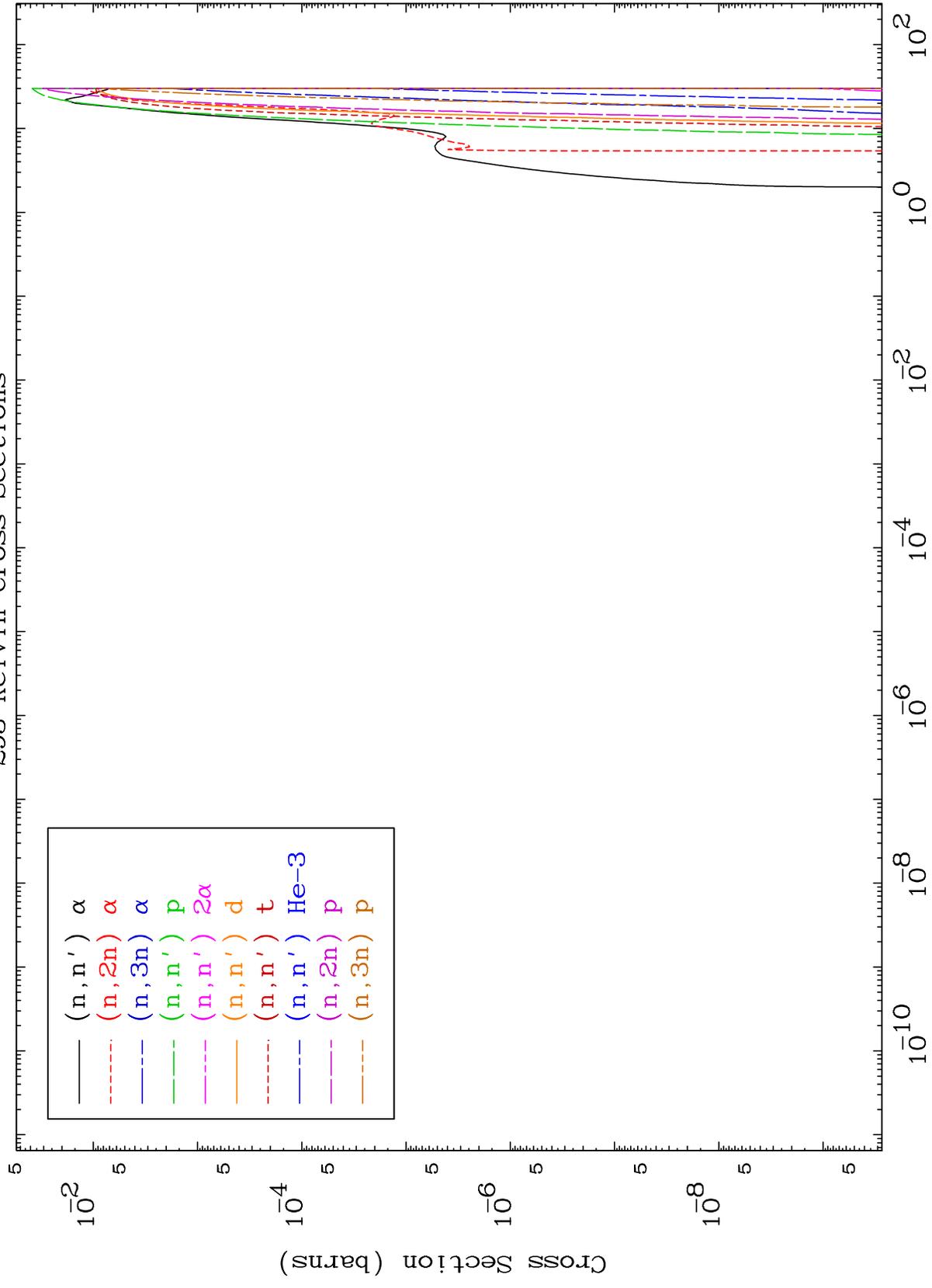
83-Bi-212



MAT 8334

293 Charged Particle  
Kelvin Cross Sections

83-Bi-212

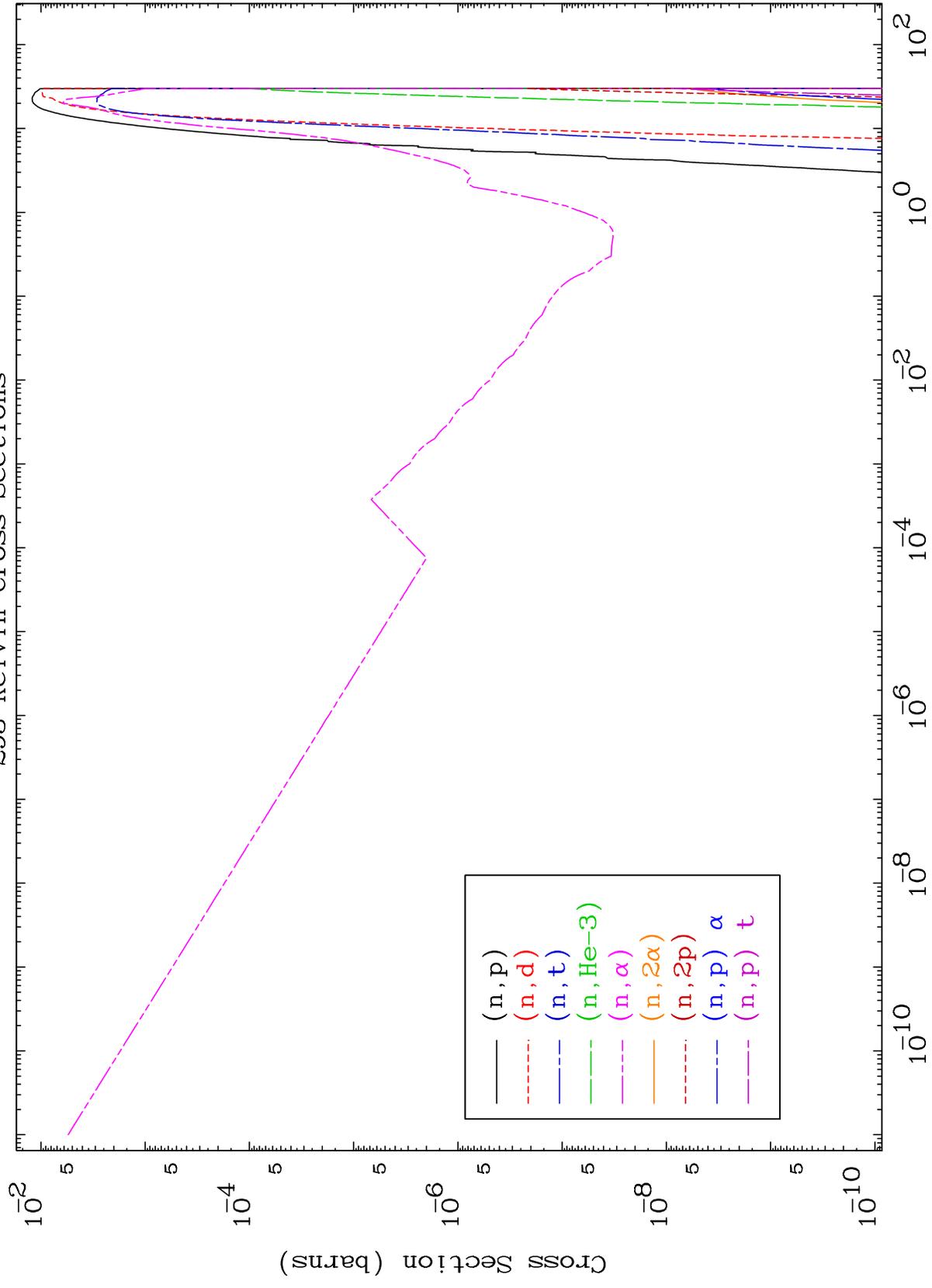


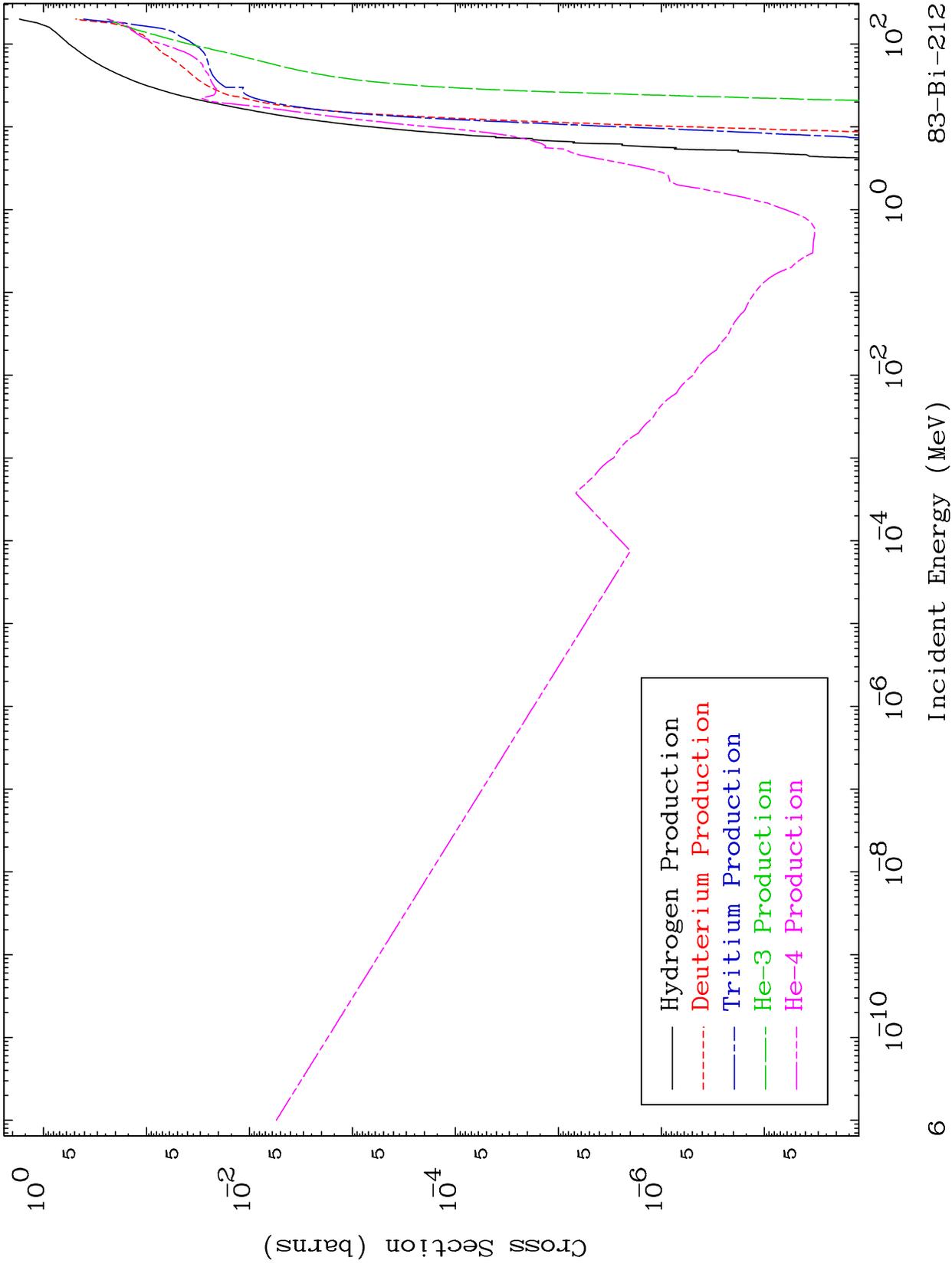
83-Bi-212

MAT 8334

293 Kelvin Cross Sections

83-Bi-212



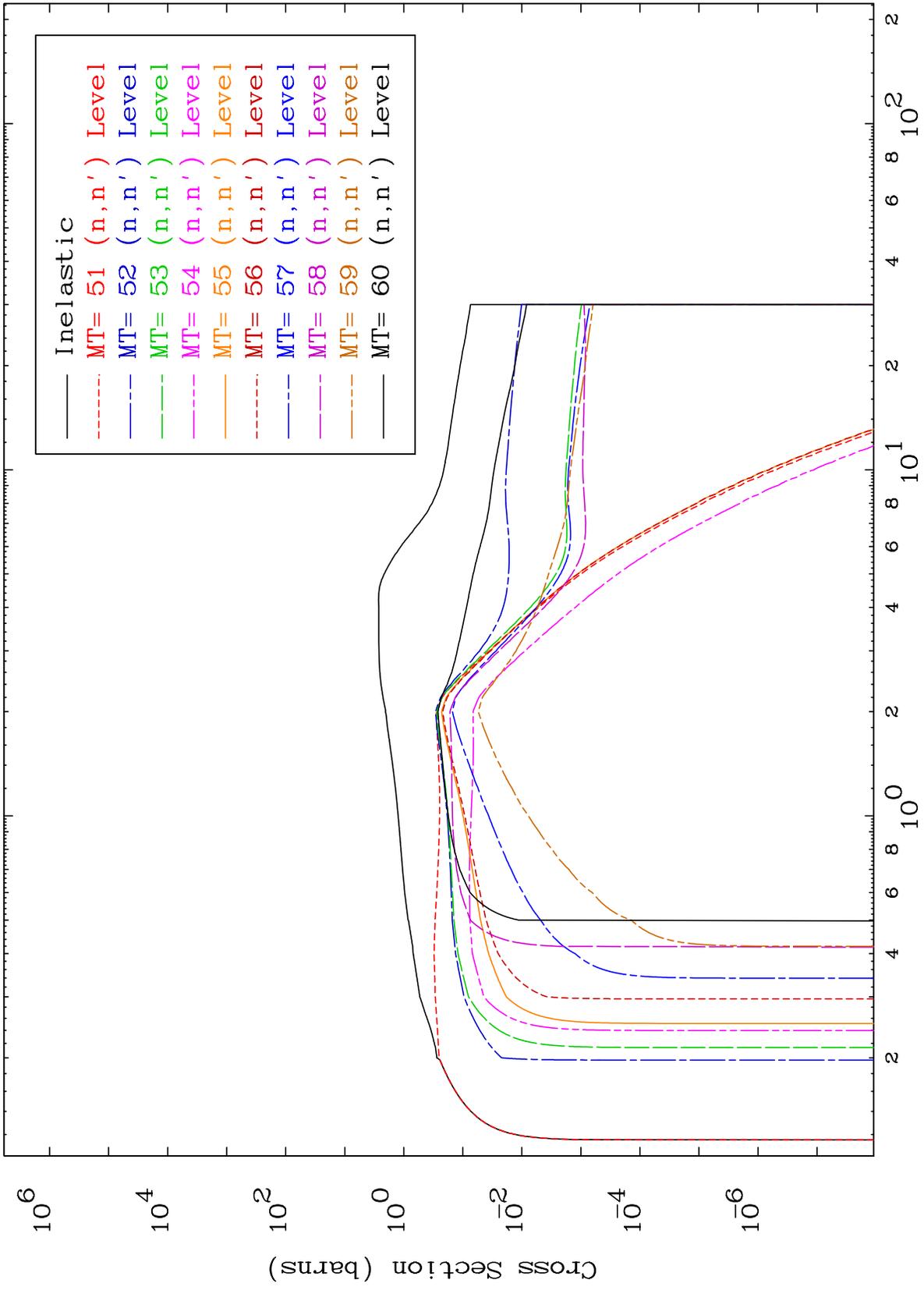


MAT 8334

(n,n') Level

83-Bi-212

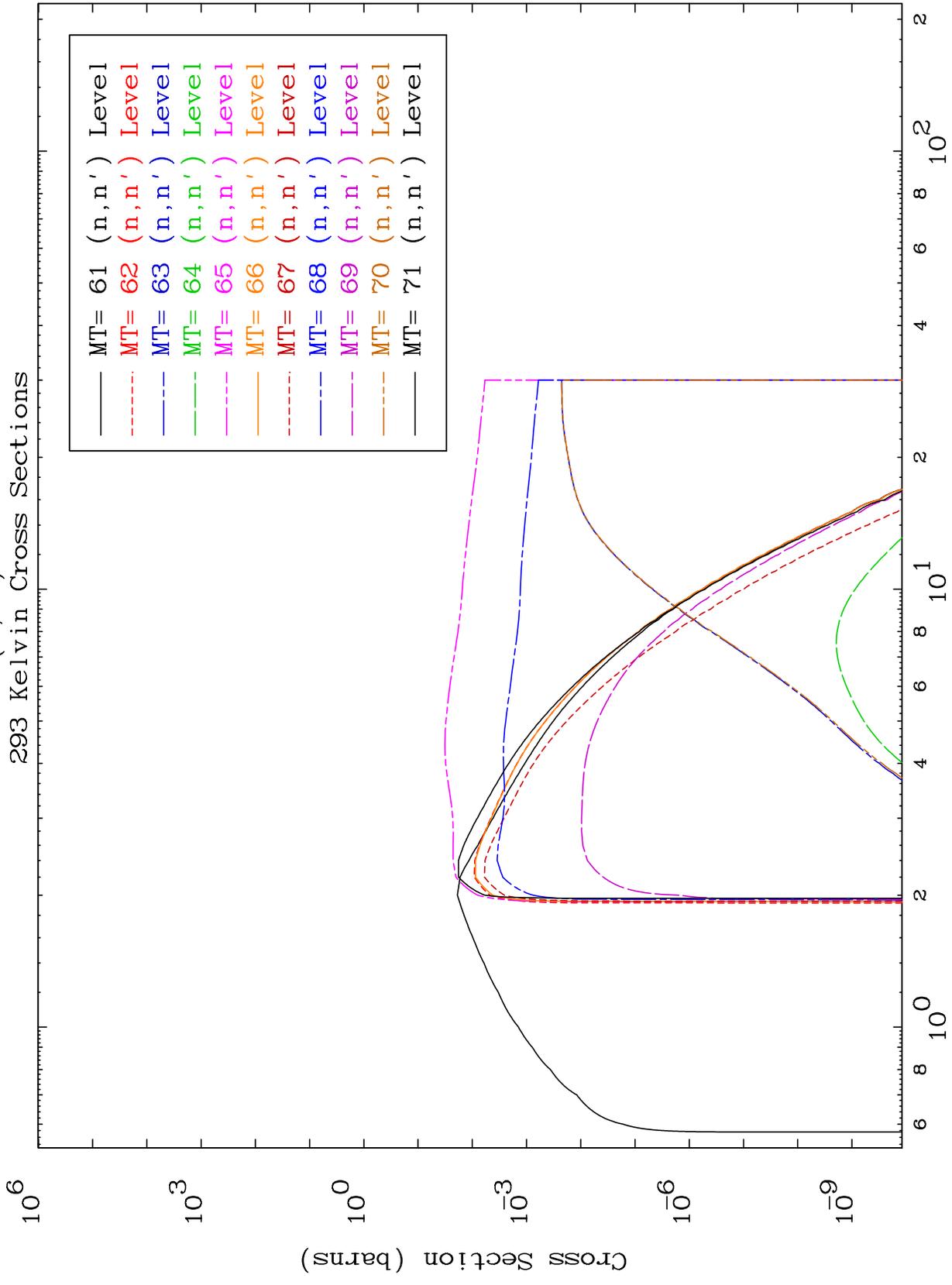
293 Kelvin Cross Sections



MAT 8334

(n,n') Level

83-Bi-212

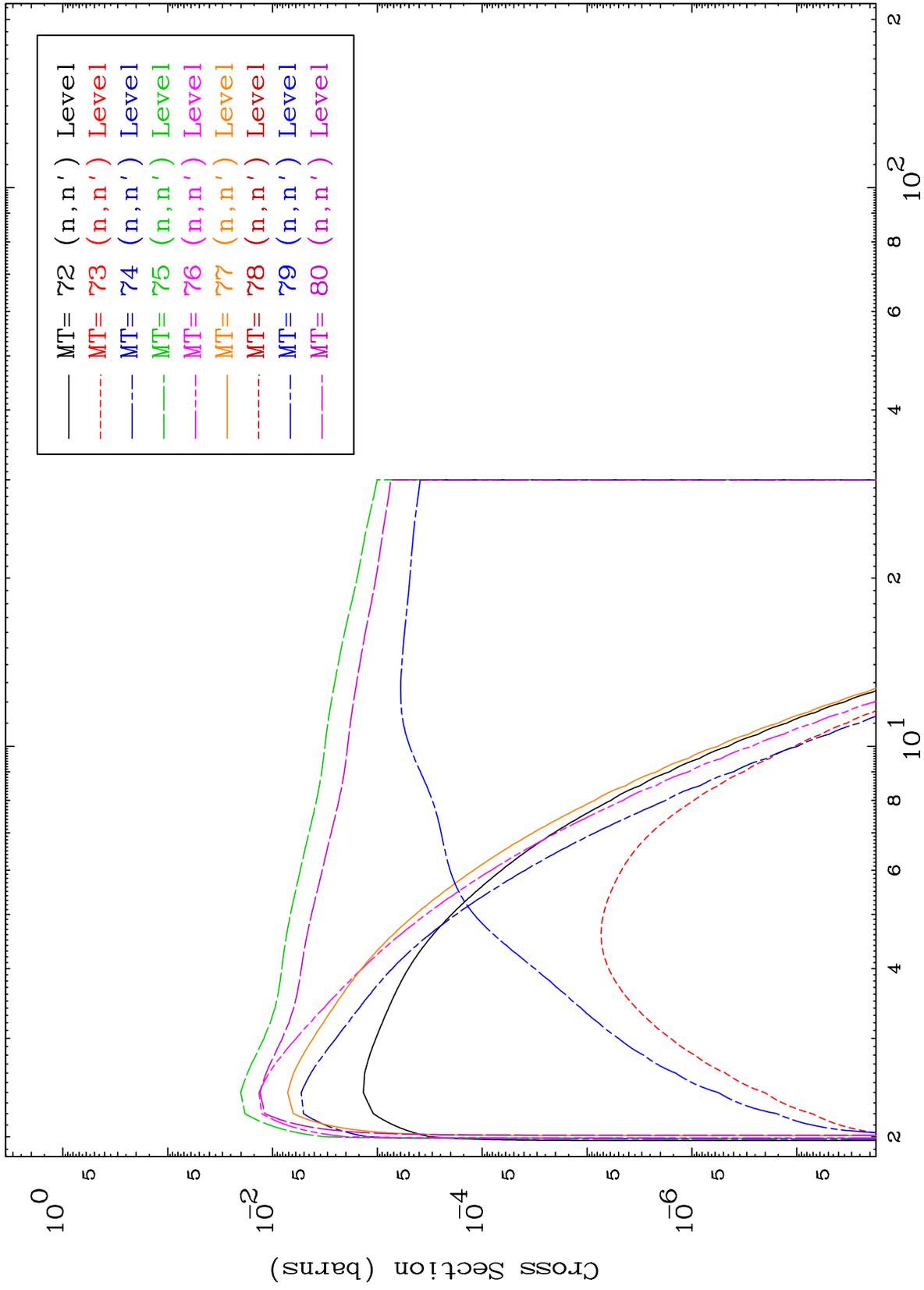


8

MAT 8334

(n,n') Level  
293 Kelvin Cross Sections

83-Bi-212



9

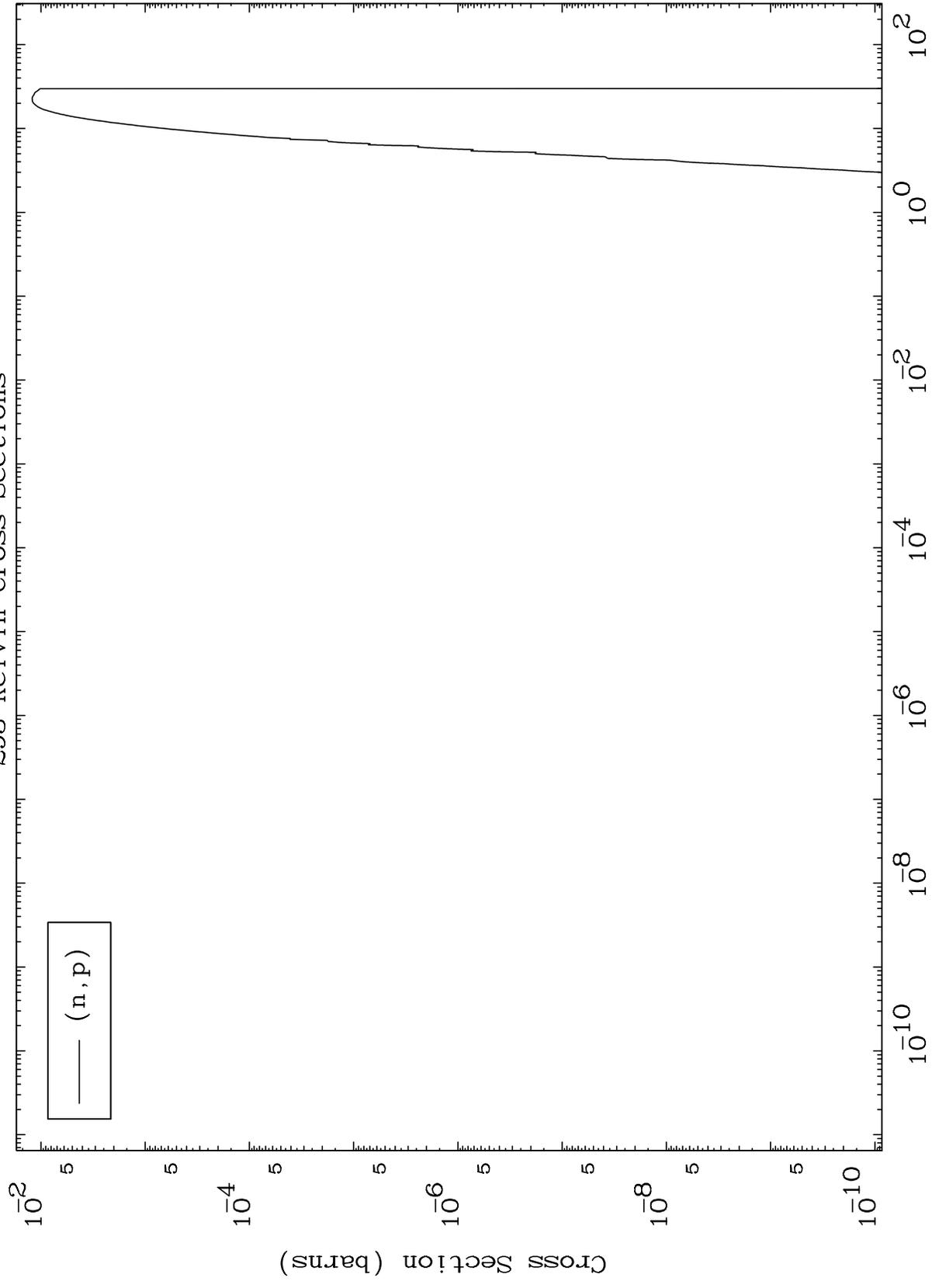
Incident Energy (MeV)

83-Bi-212

MAT 8334

(n,p) Levels  
293 Kelvin Cross Sections

83-Bi-212



10

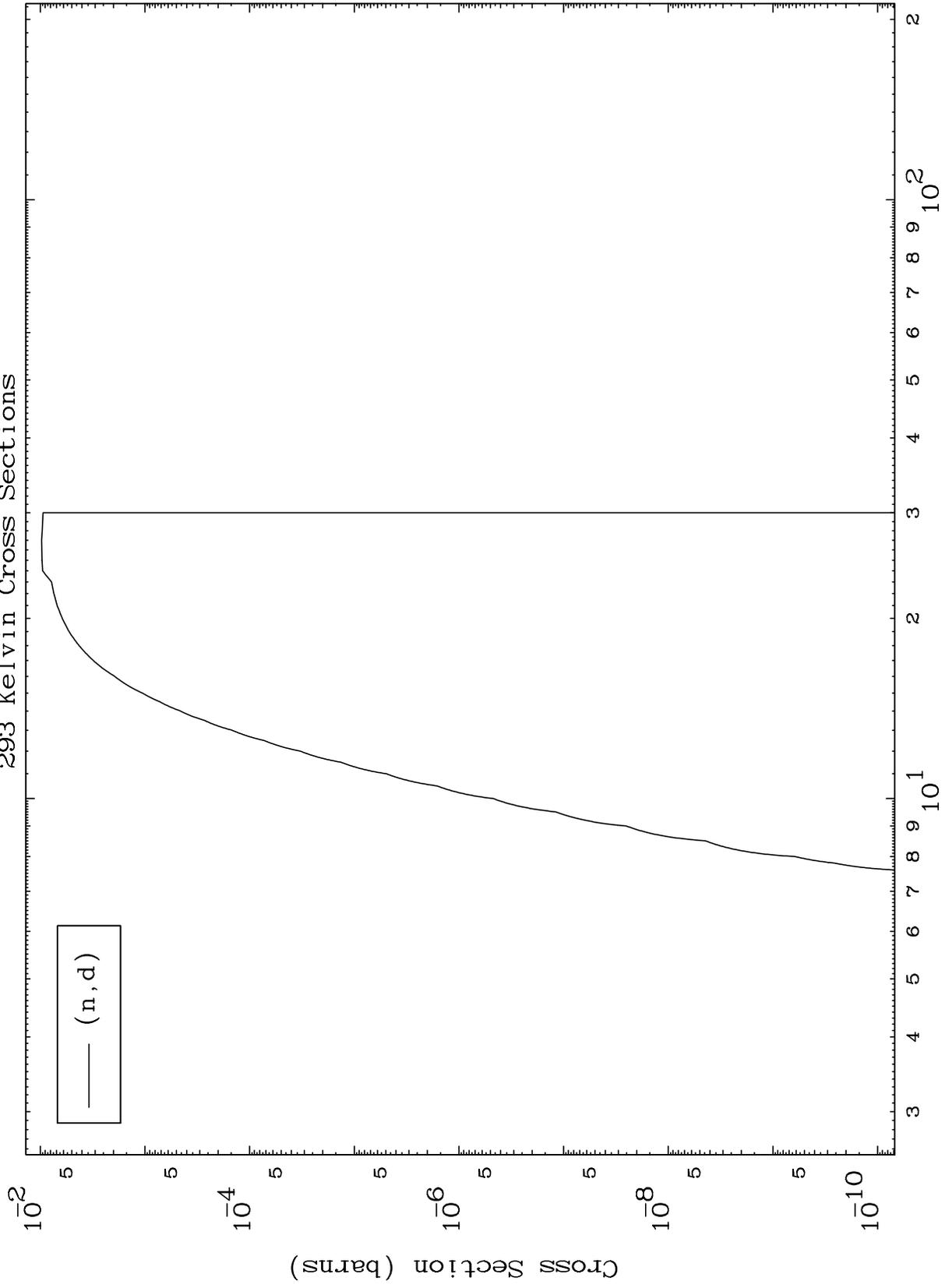
Incident Energy (MeV)

83-Bi-212

MAT 8334

(n,d) Levels  
293 Kelvin Cross Sections

83-Bi-212



11

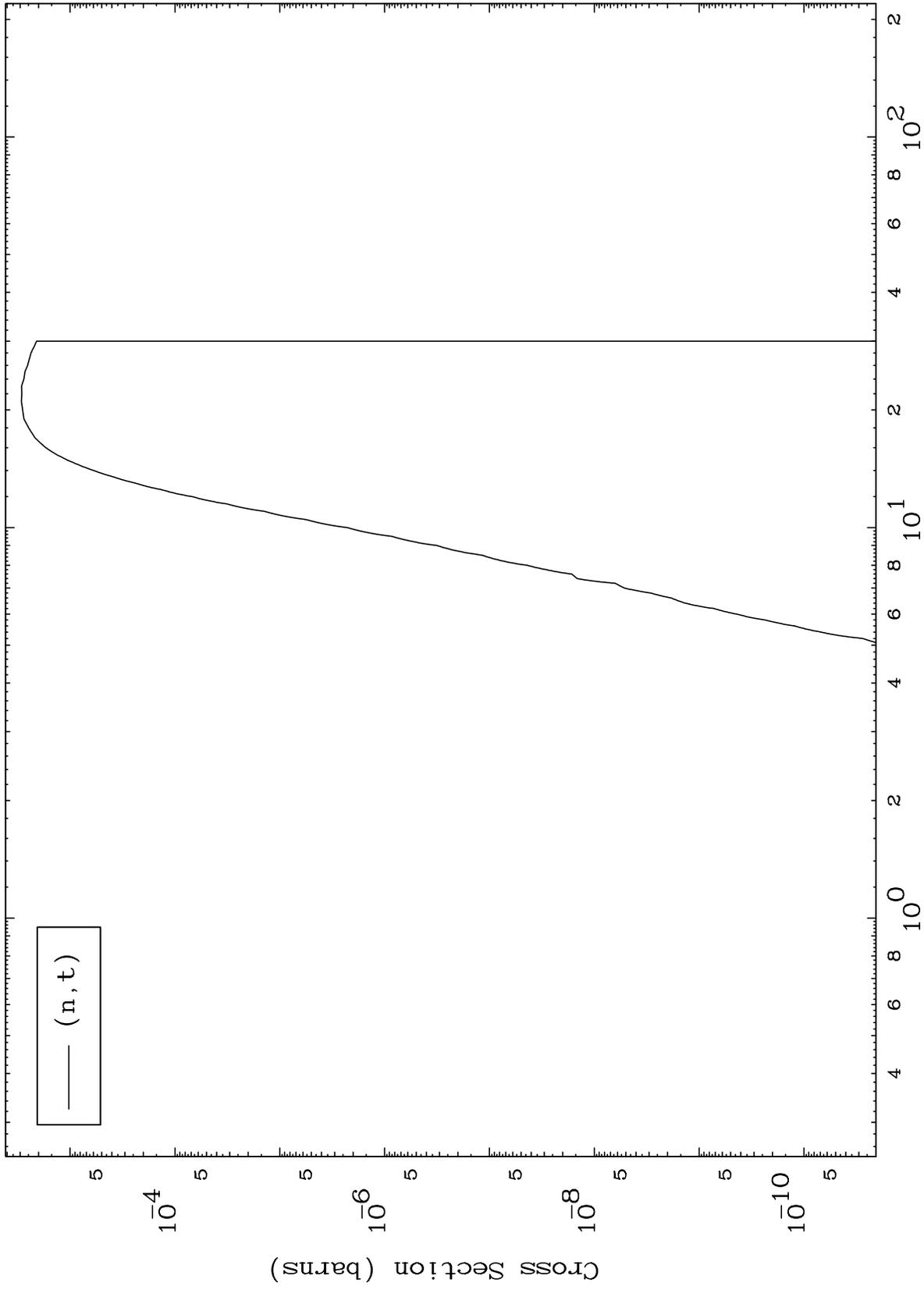
Incident Energy (MeV)

83-Bi-212

MAT 8334

(n,t) Levels  
293 Kelvin Cross Sections

83-Bi-212



12

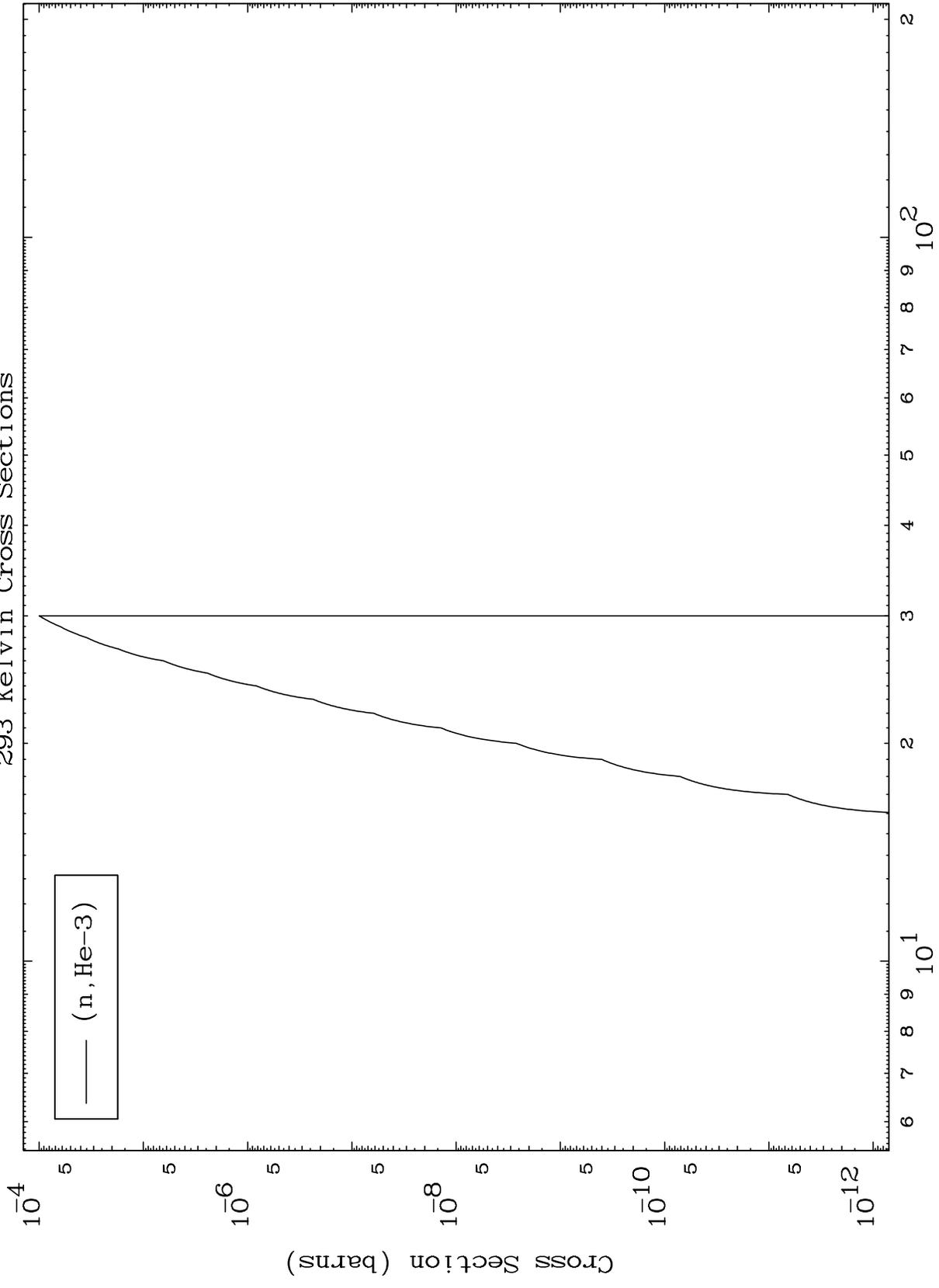
Incident Energy (MeV)

83-Bi-212

MAT 8334

83-Bi-212

(n,He3) Levels  
293 Kelvin Cross Sections



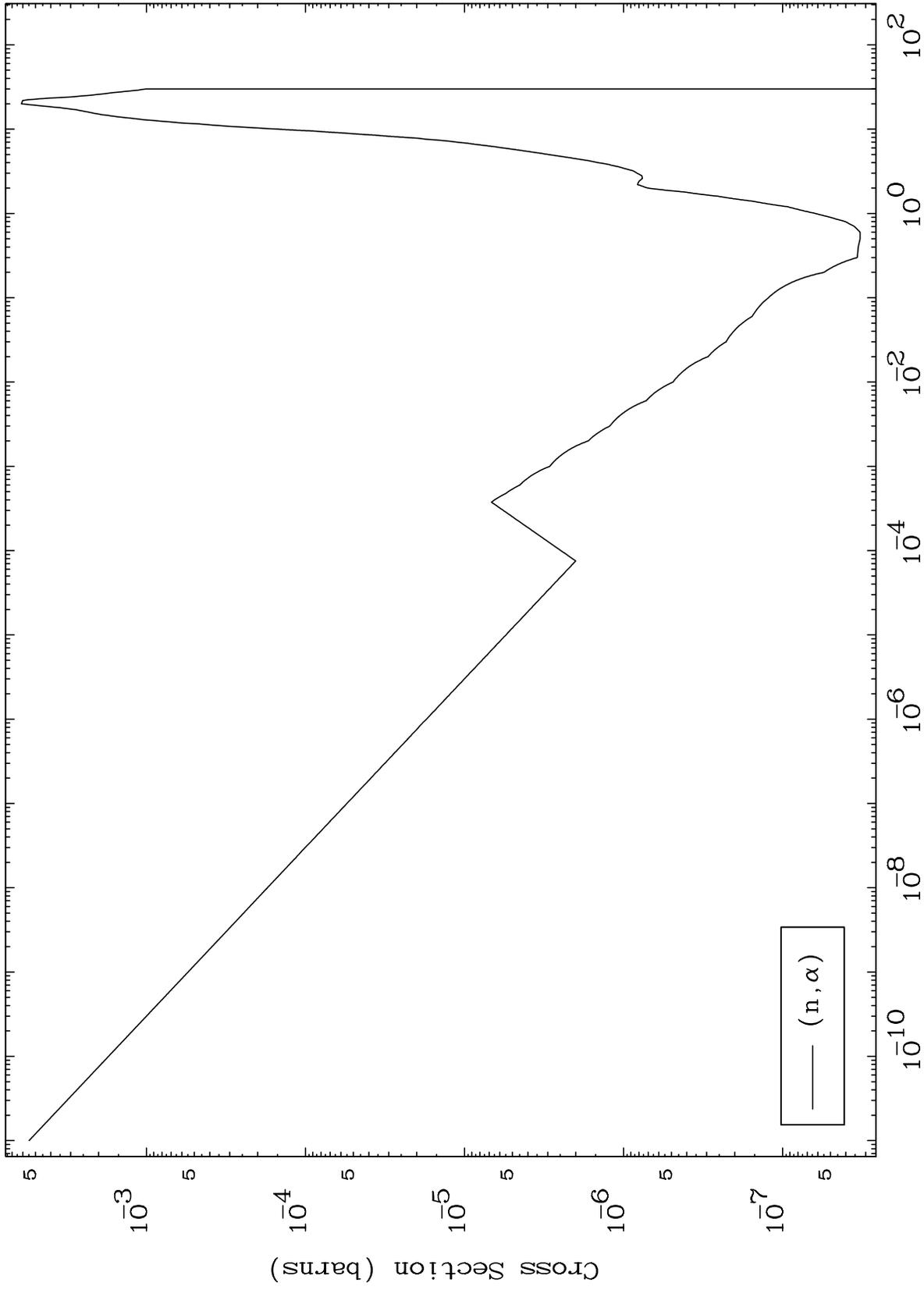
13

83-Bi-212

MAT 8334

(n,α) Levels  
293 Kelvin Cross Sections

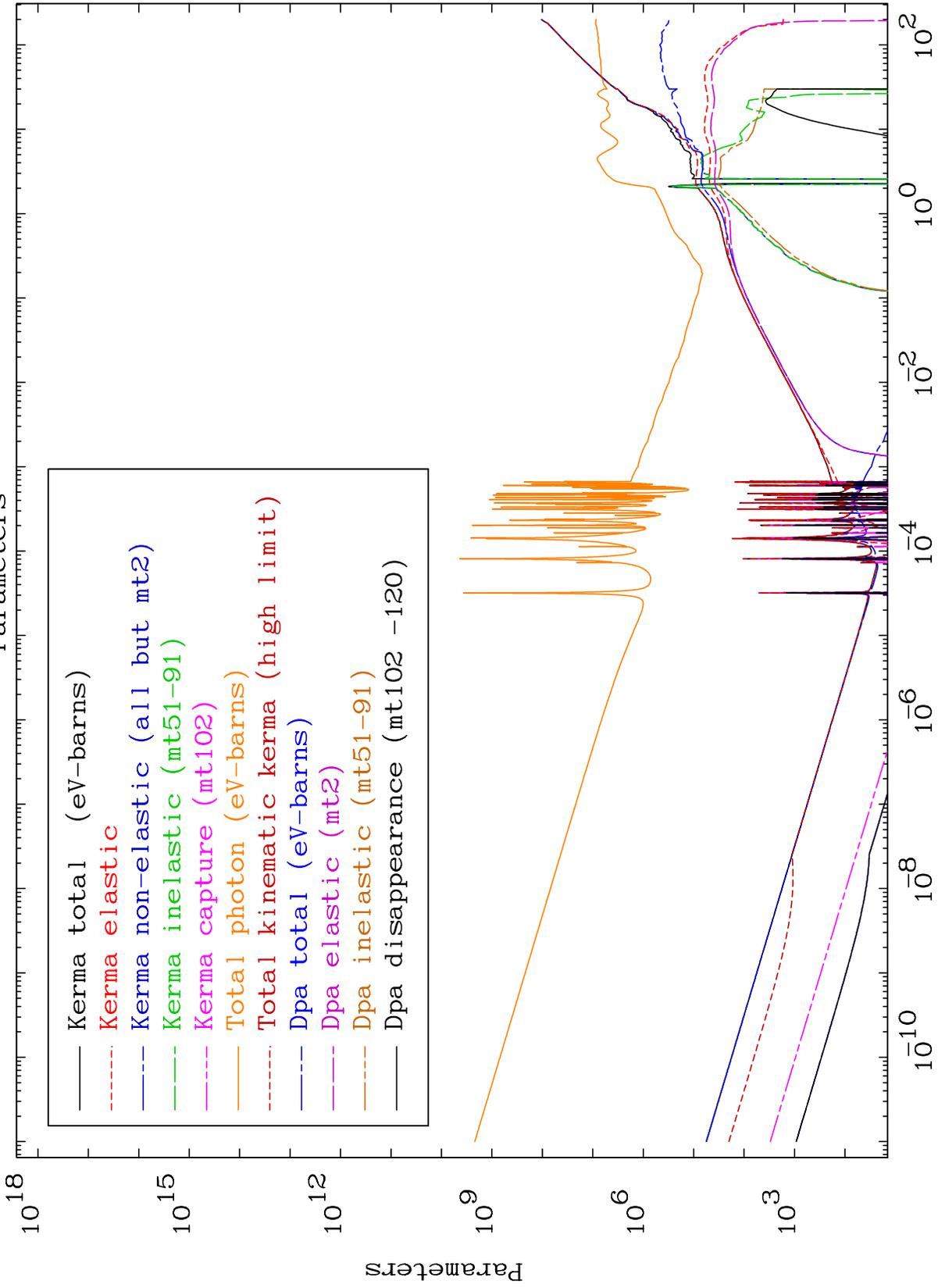
83-Bi-212



14

Incident Energy (MeV)

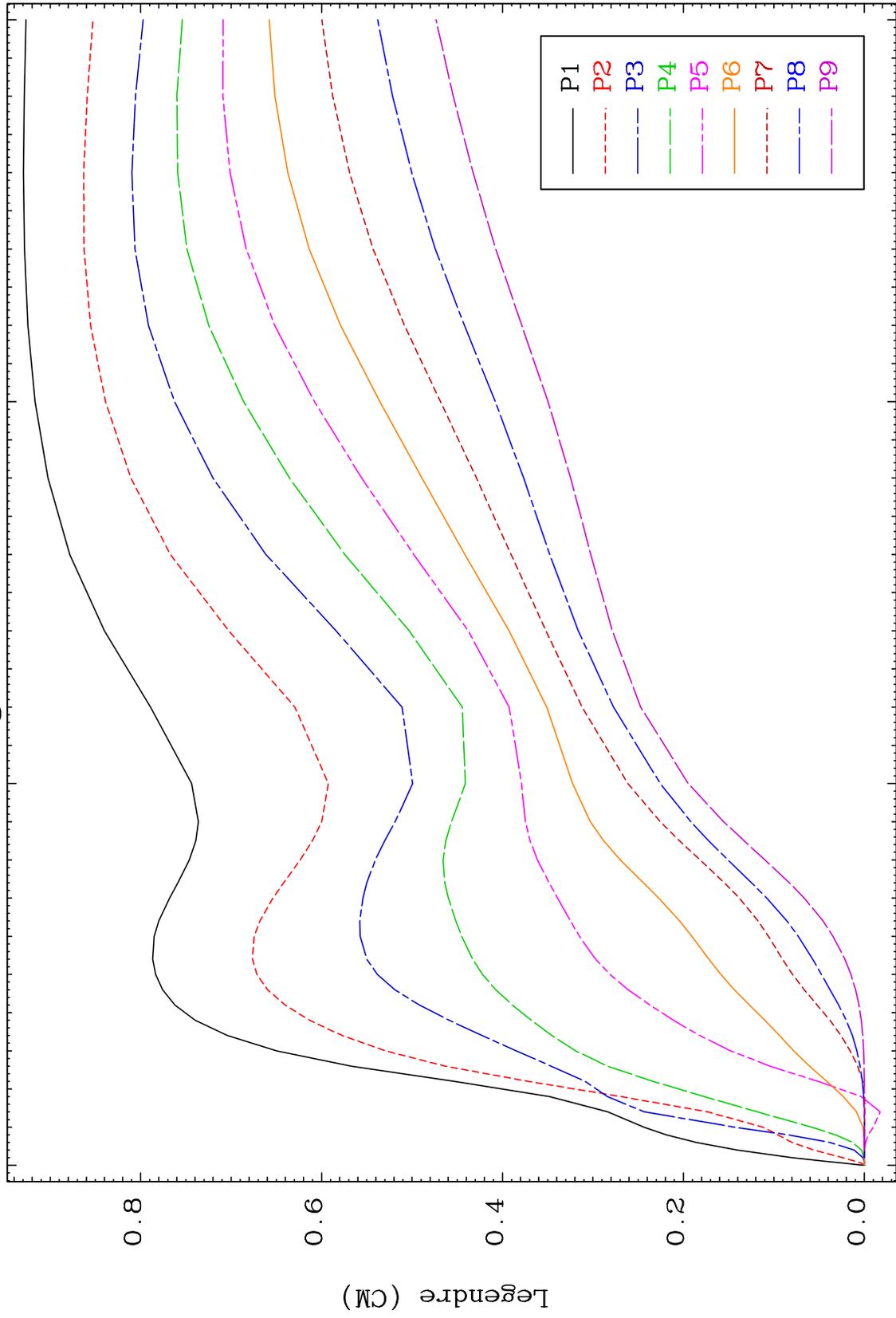
83-Bi-212



MAT 8334

Elastic Legendre Coefficients

83-Bi-212



0

16

10

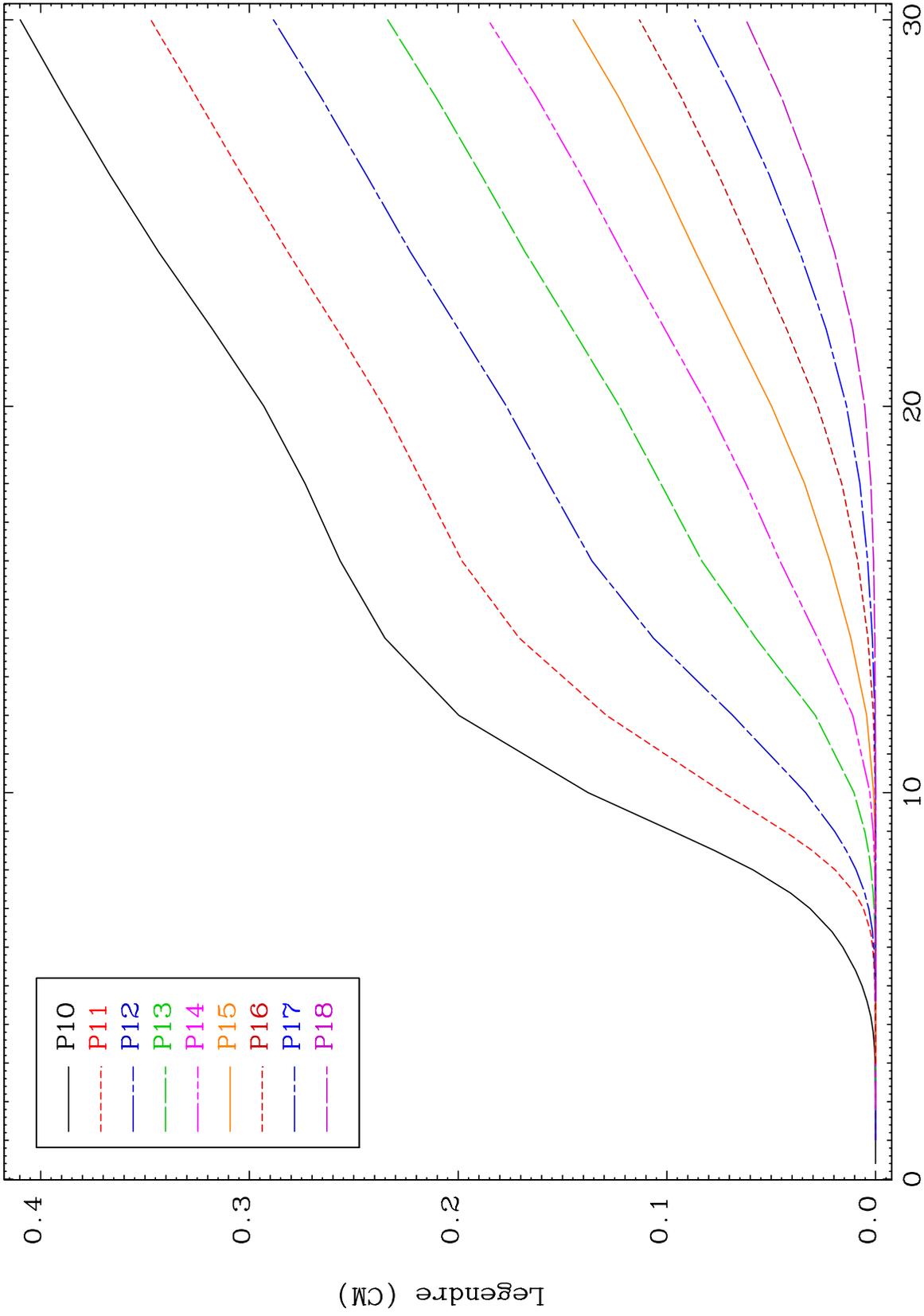
20

30

MAT 8334

Elastic Legendre Coefficients

83-Bi-212



17

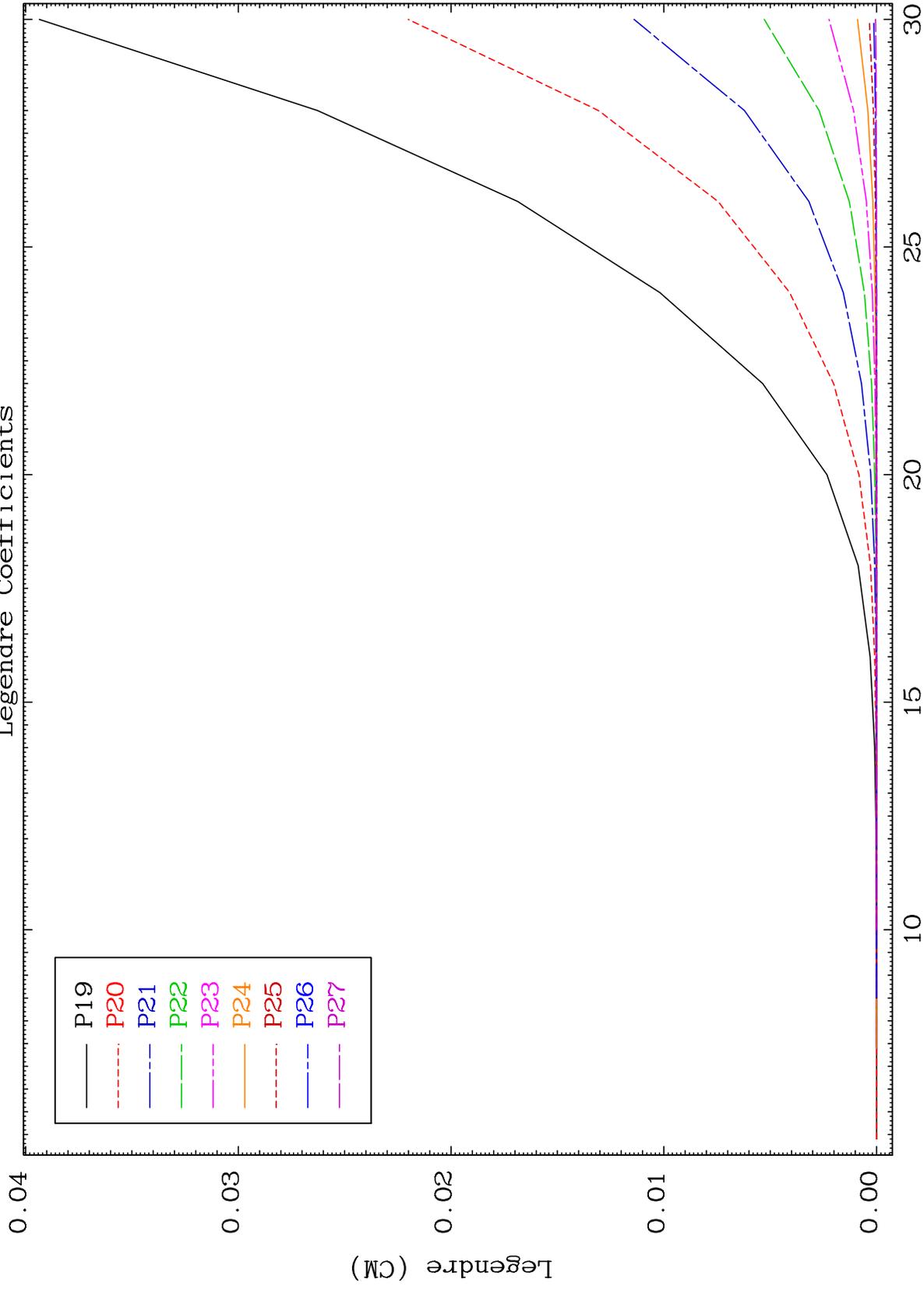
Incident Energy (MeV)

83-Bi-212

MAT 8334

Elastic Legendre Coefficients

83-Bi-212



18

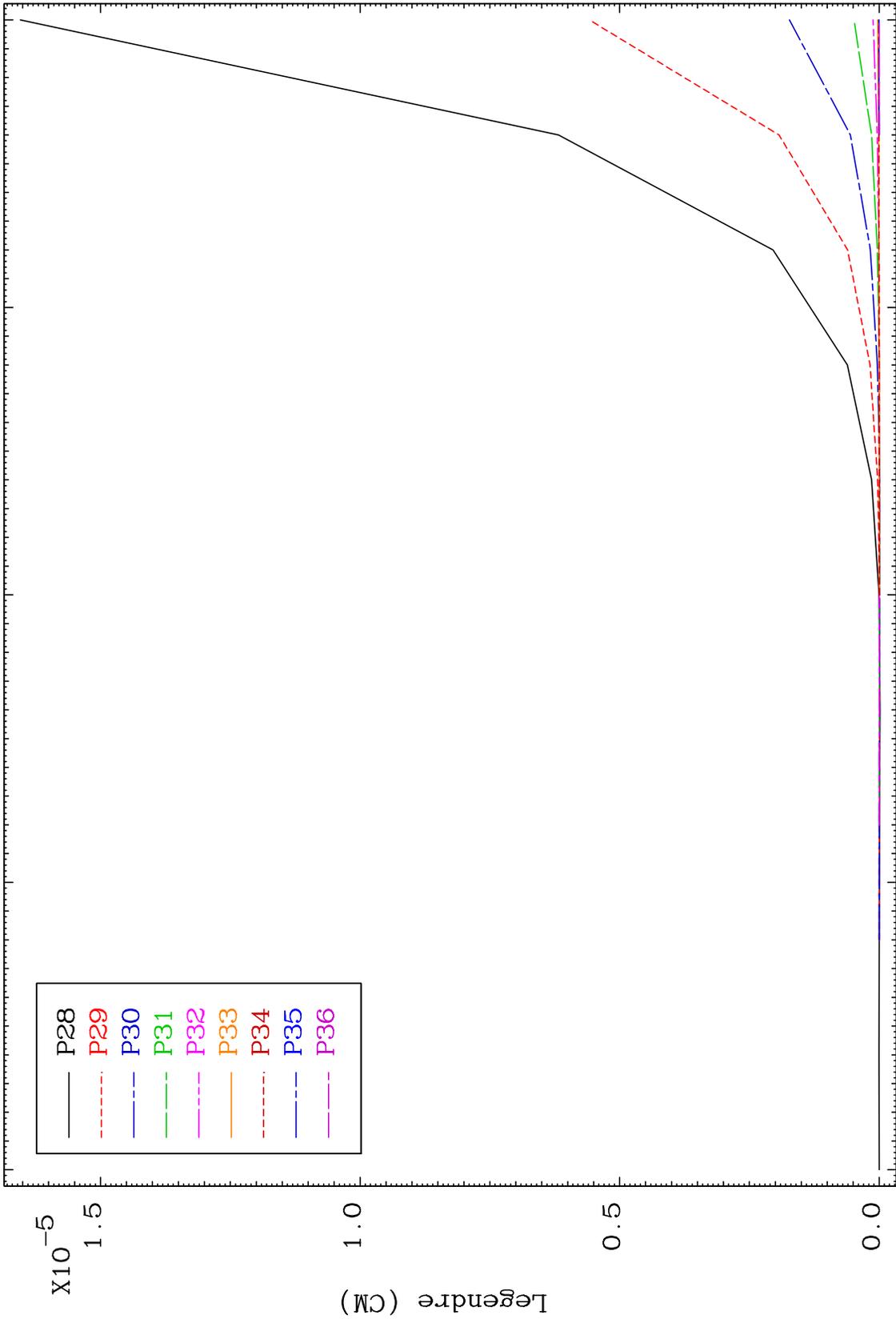
Incident Energy (MeV)

83-Bi-212

MAT 8334

### Elastic Legendre Coefficients

83-Bi-212



19

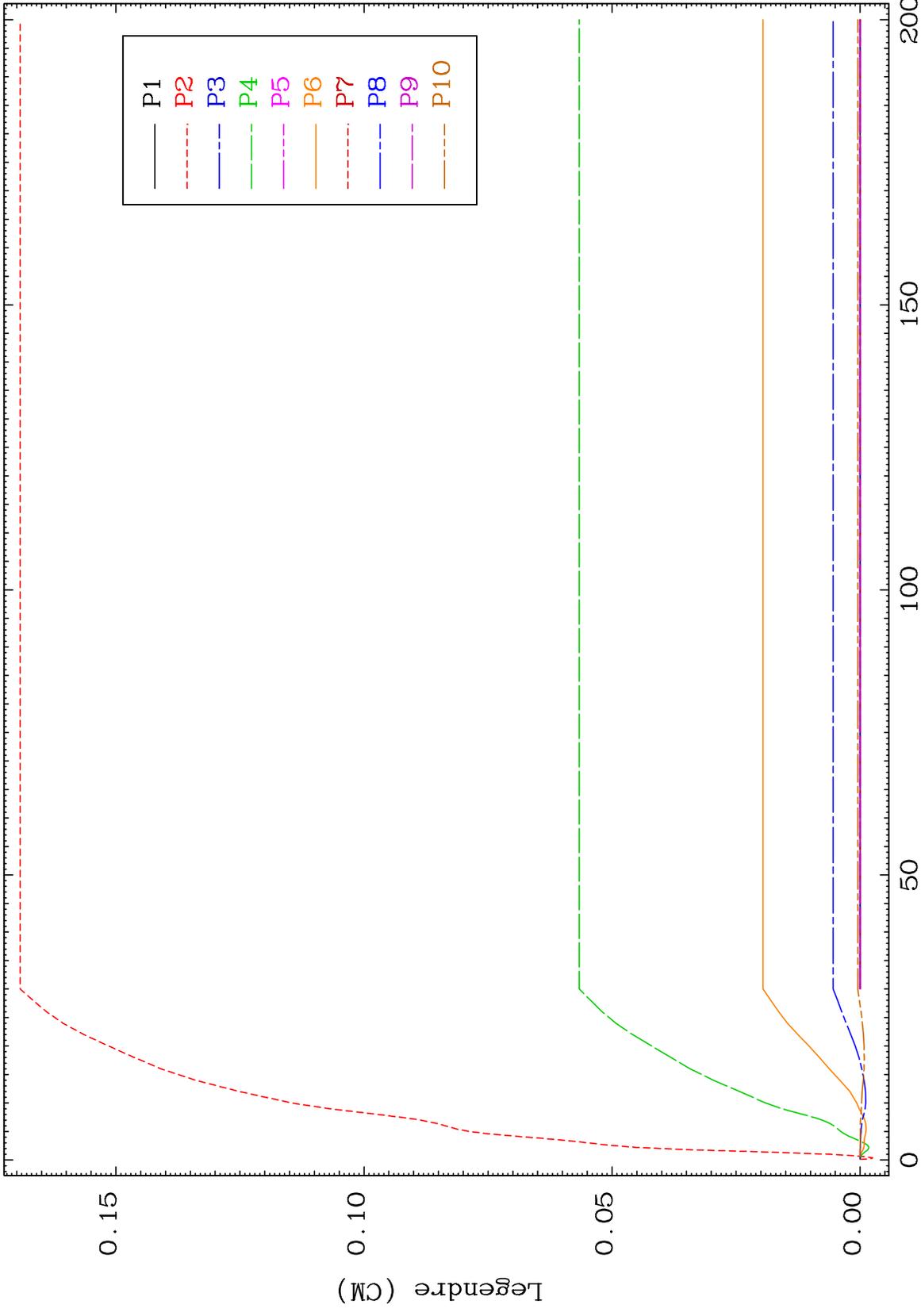
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212

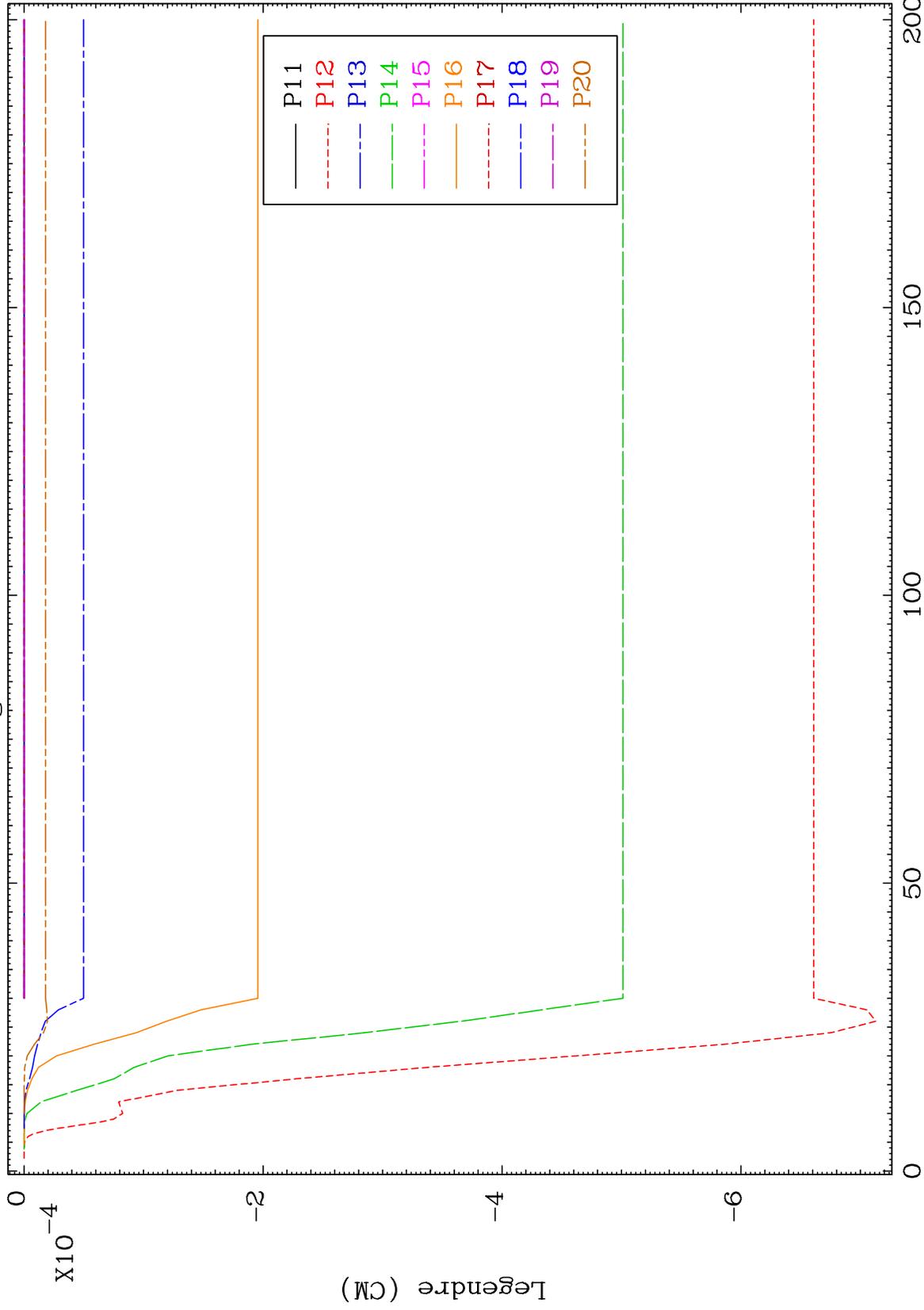


83-Bi-212

MAT 8334

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

83-Bi-212



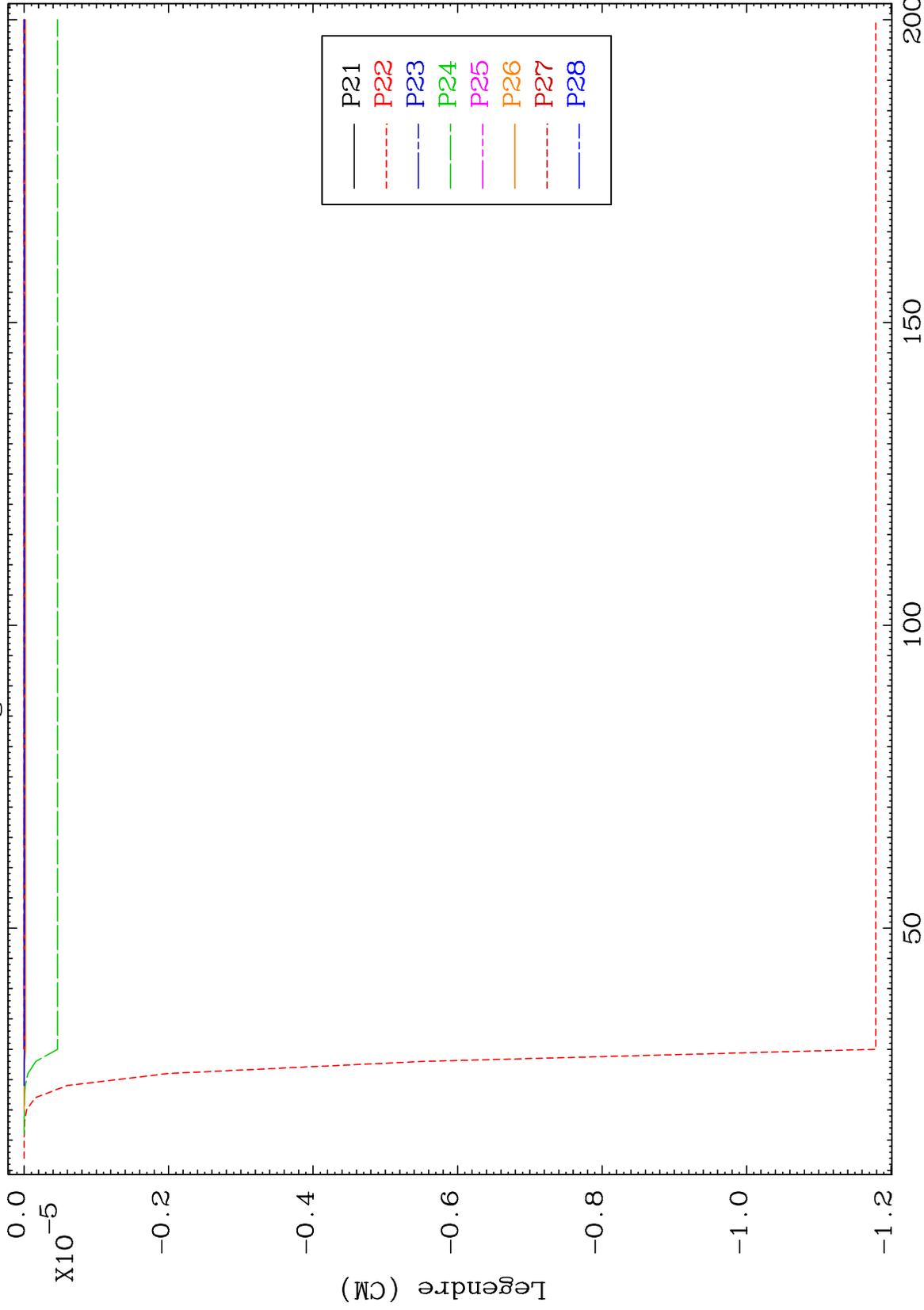
21

83-Bi-212

MAT 8334

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

83-Bi-212



22

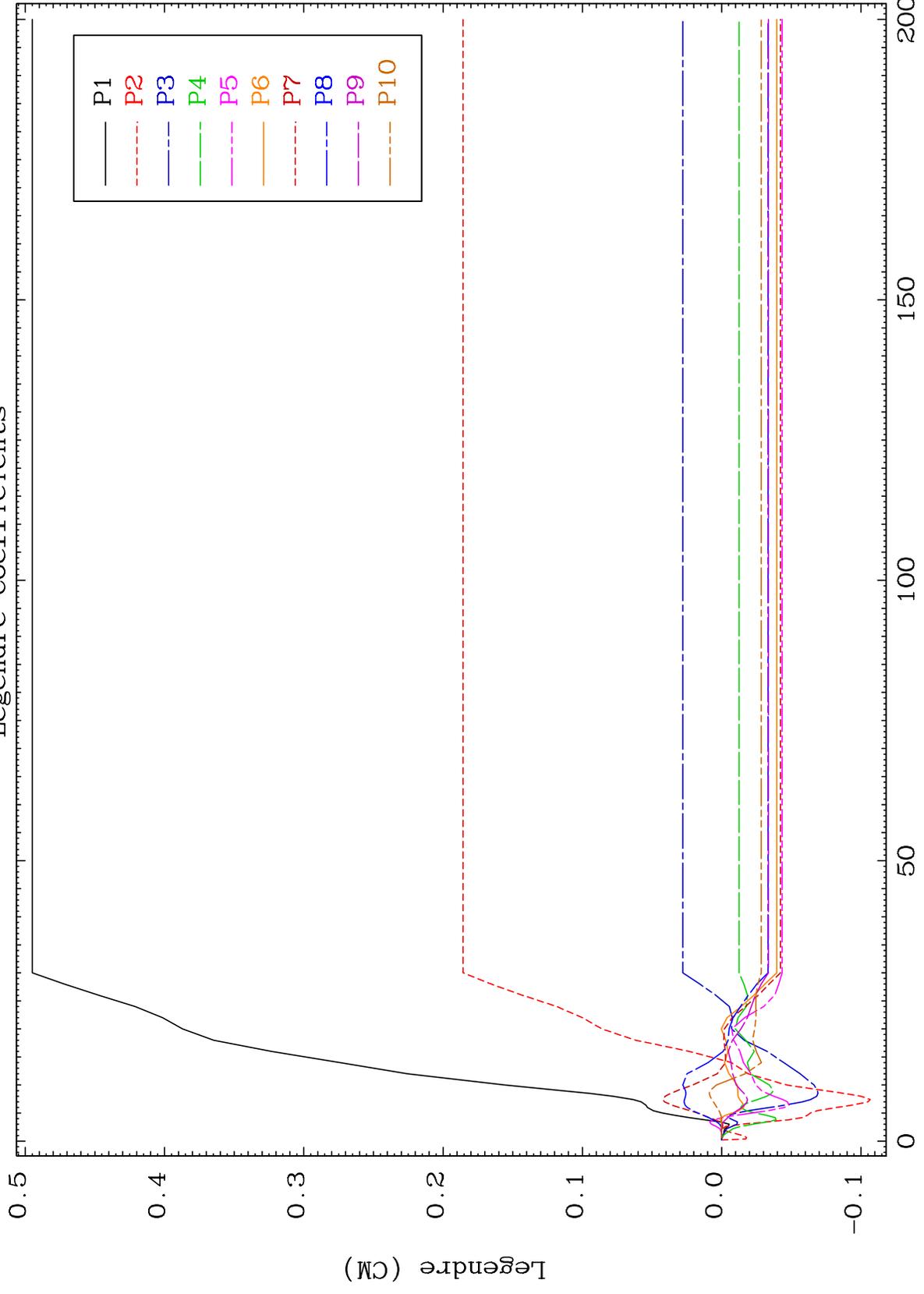
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



23

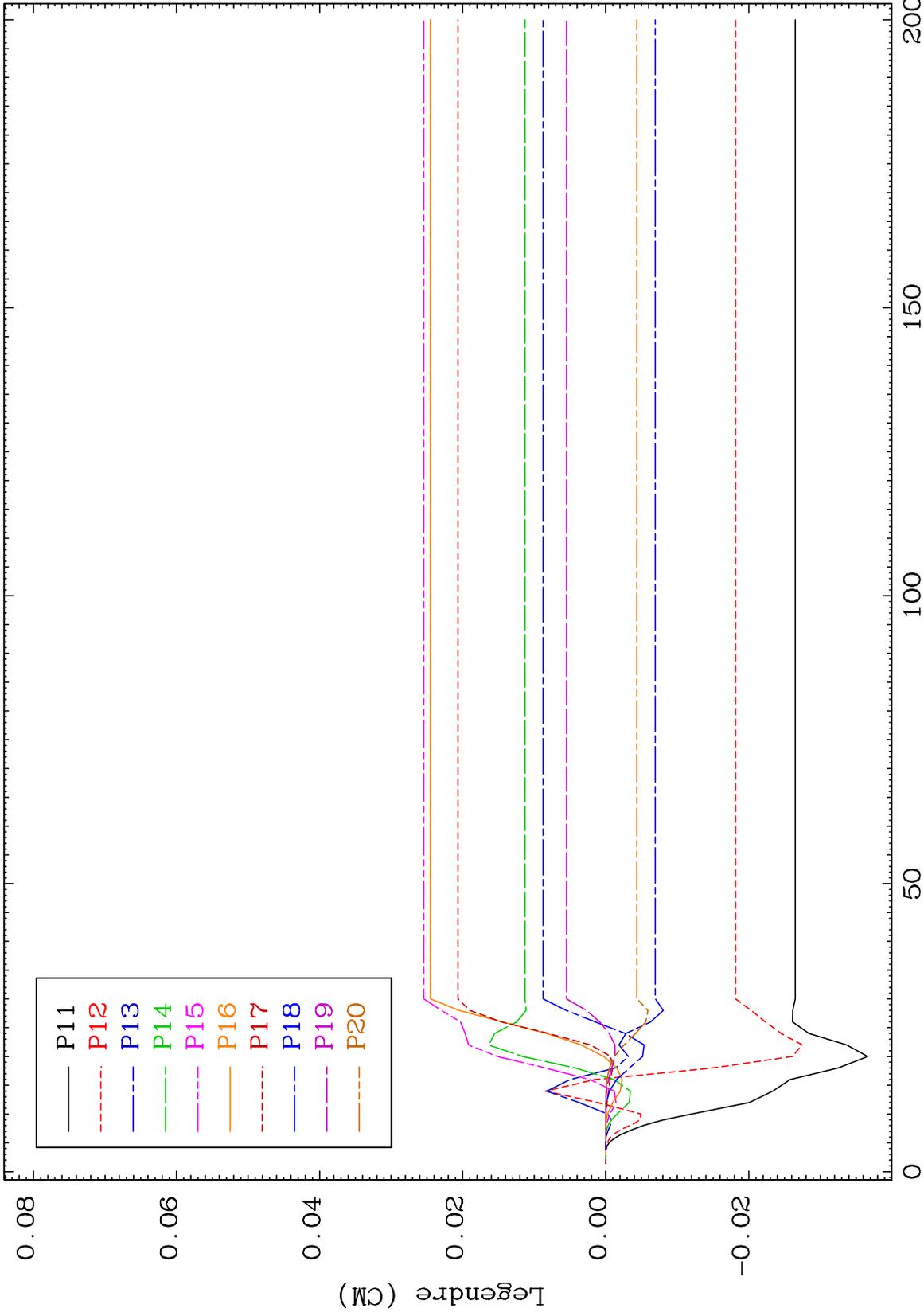
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



24

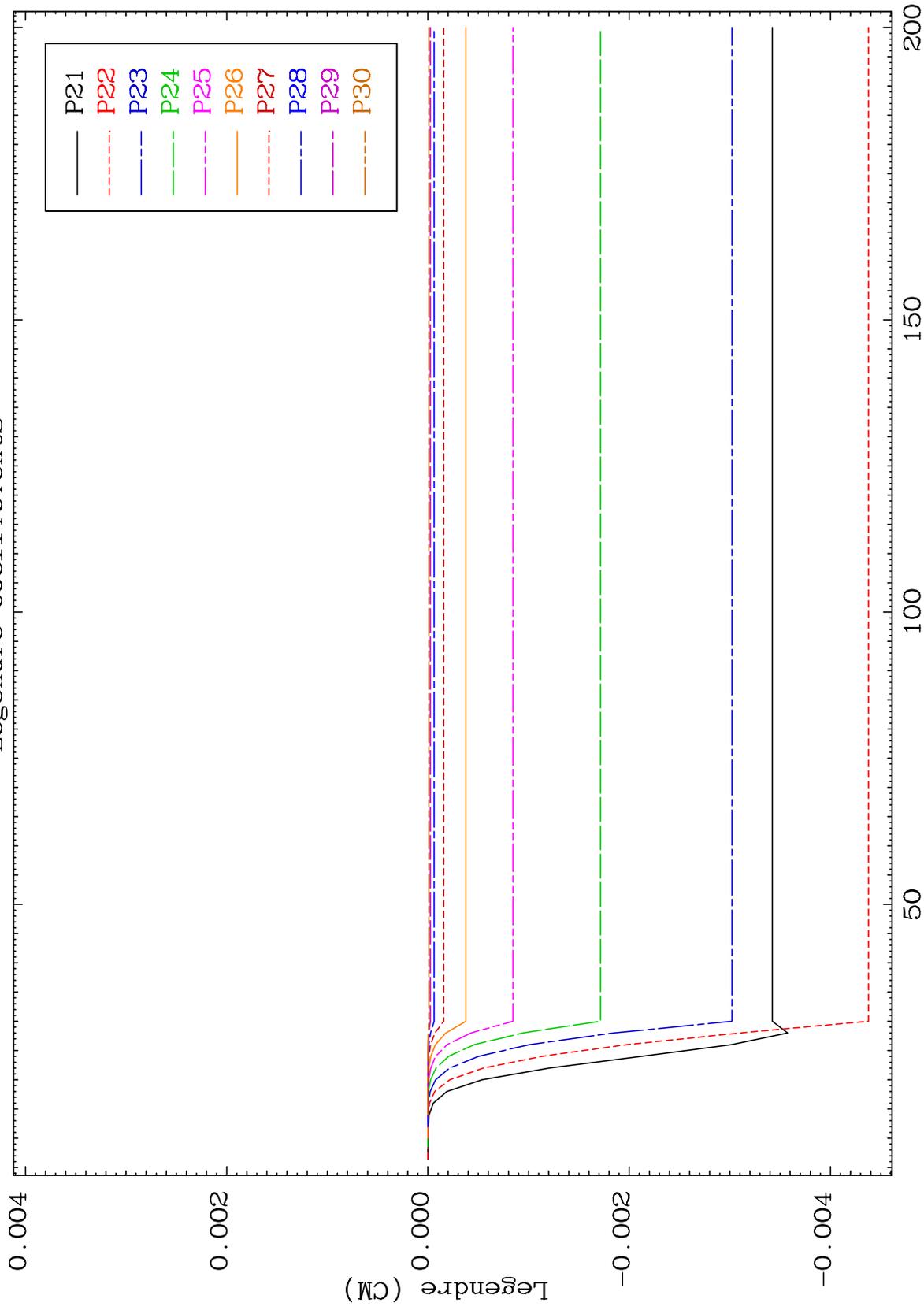
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



25

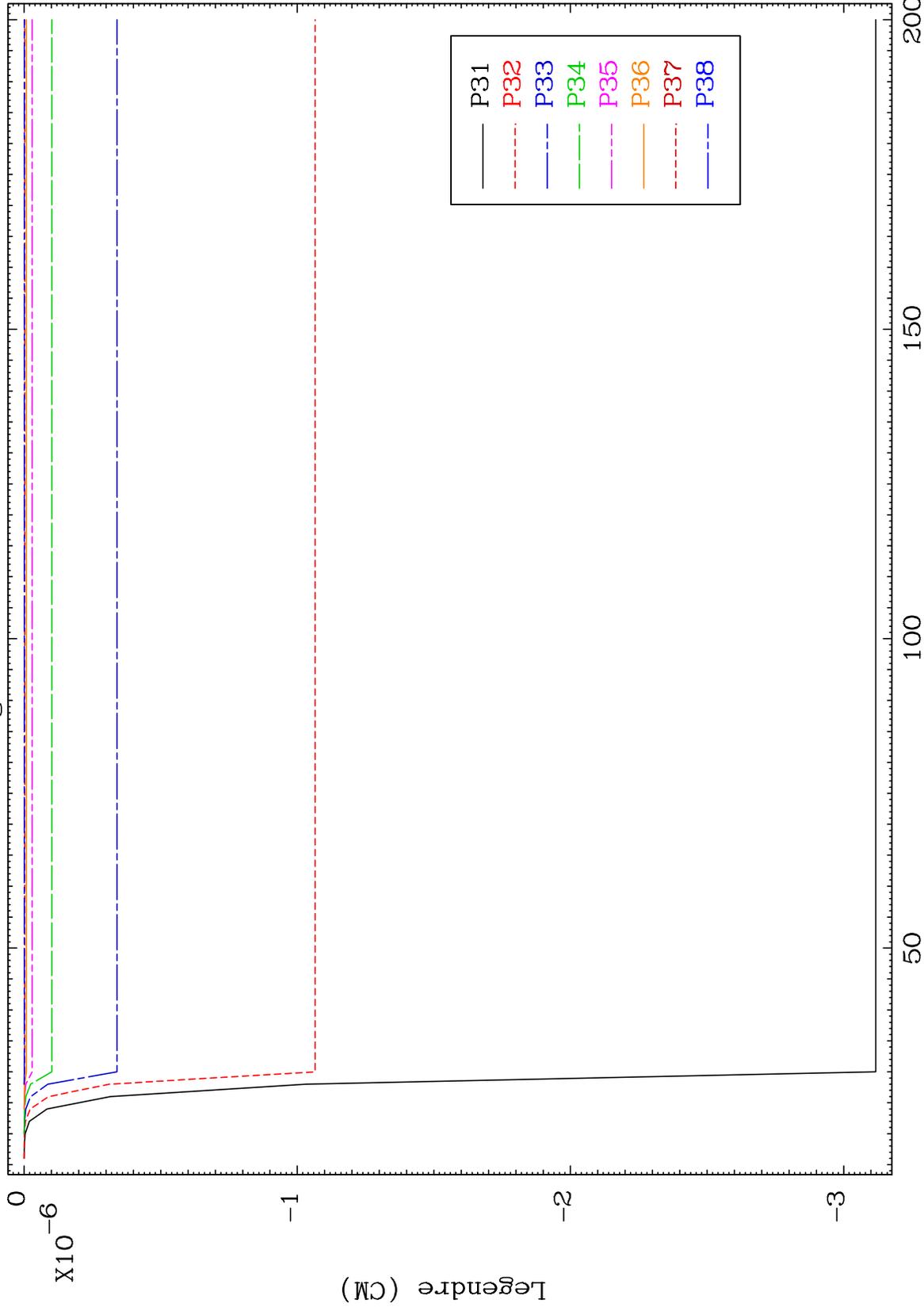
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



26

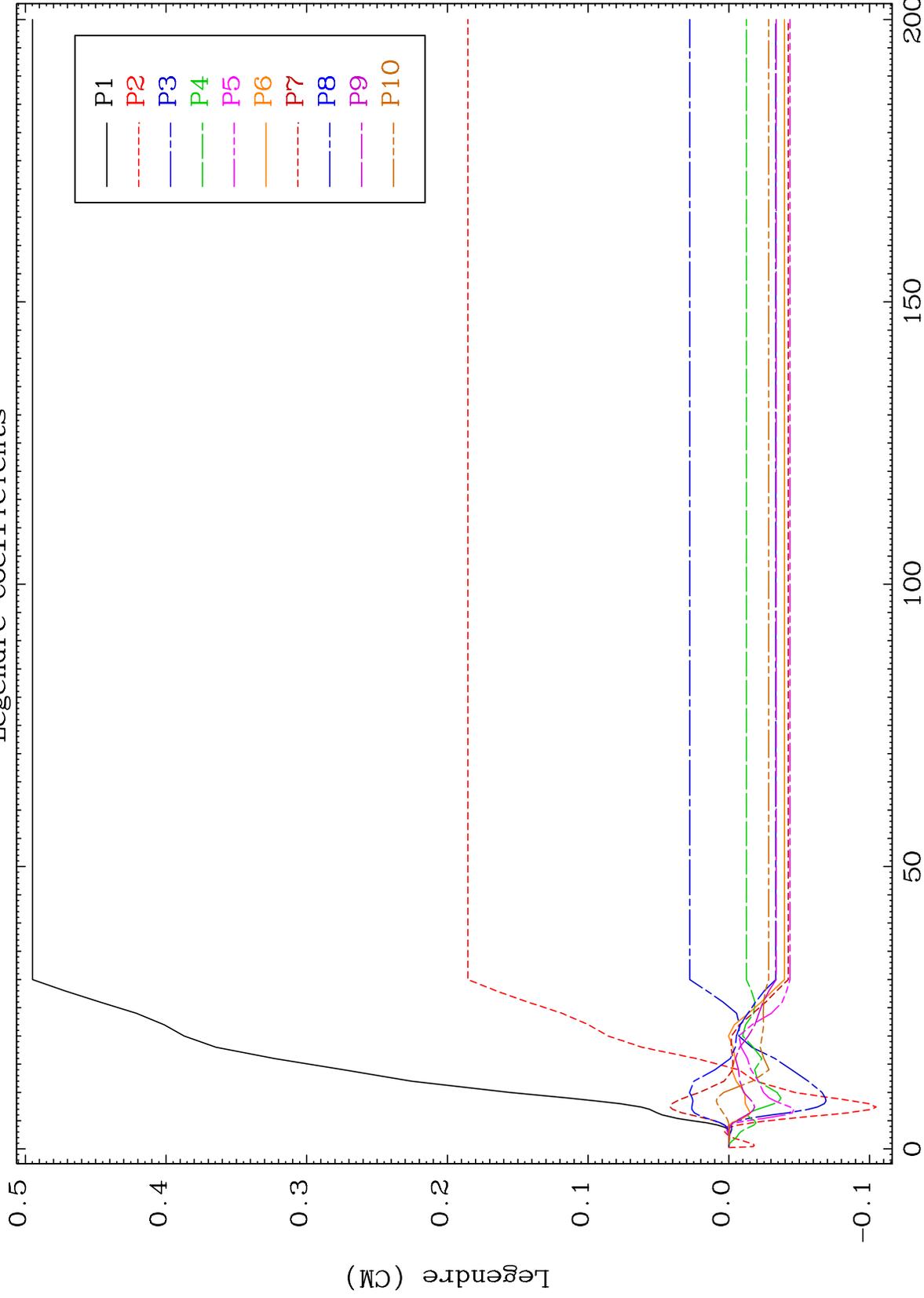
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



27

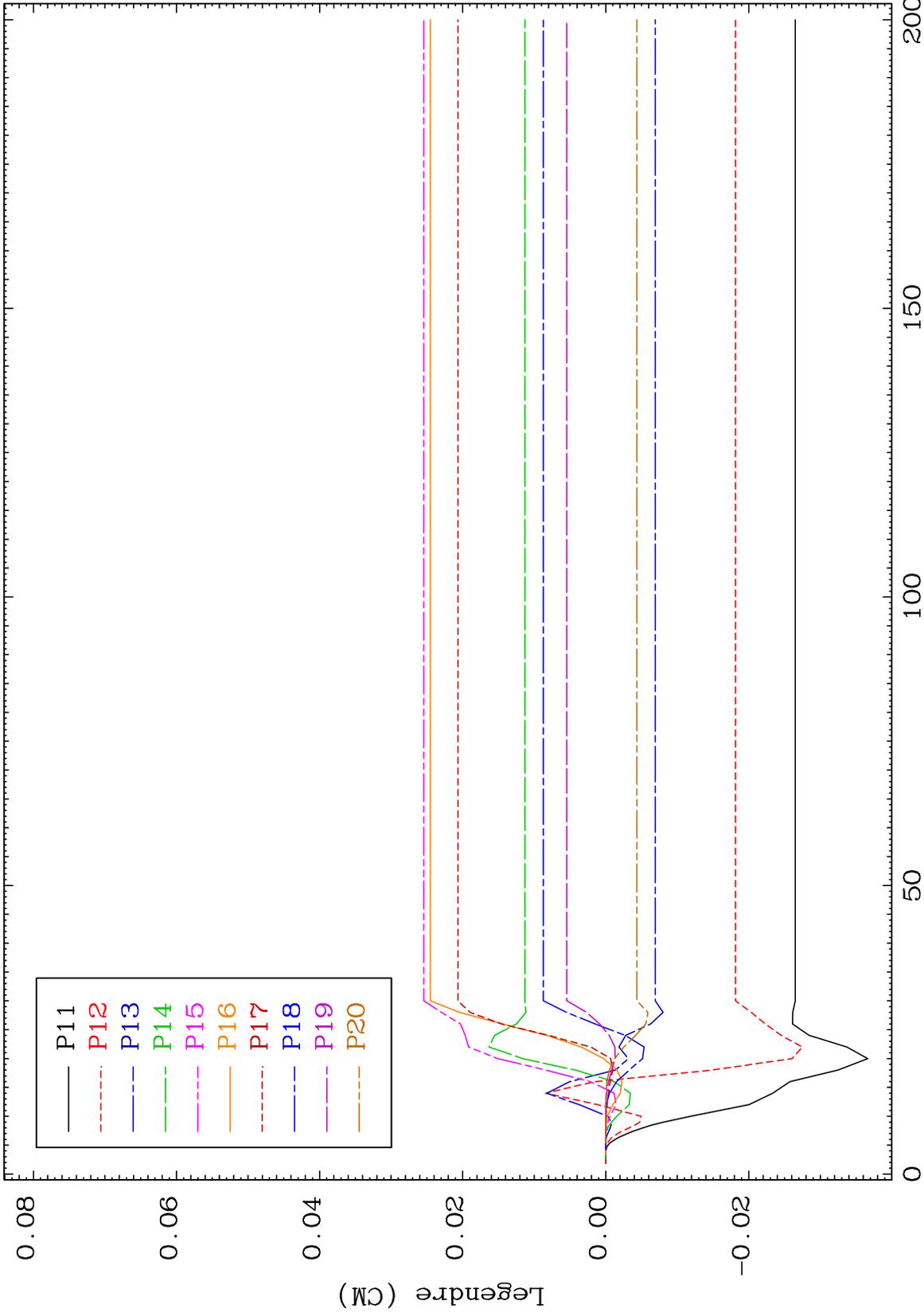
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



28

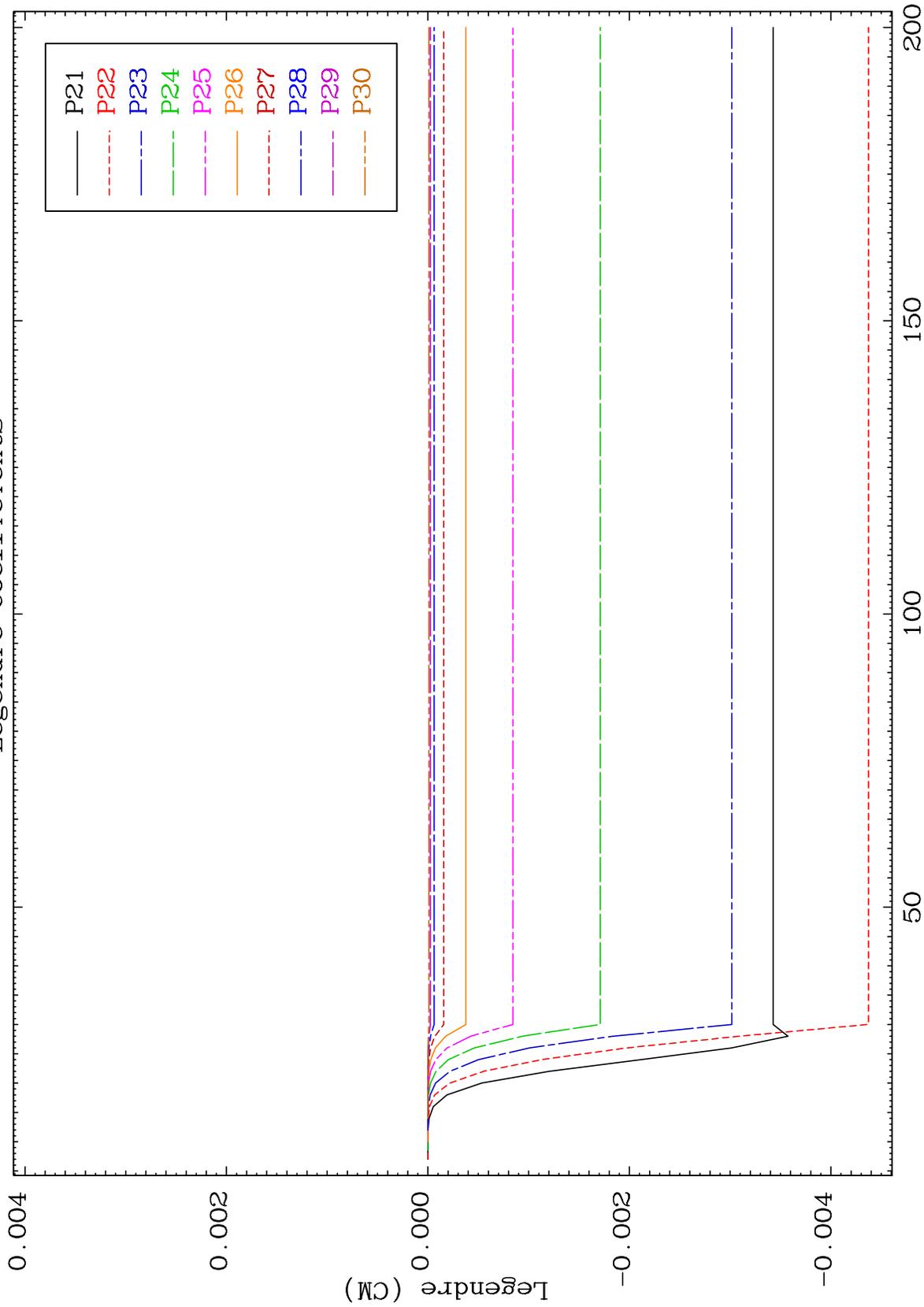
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



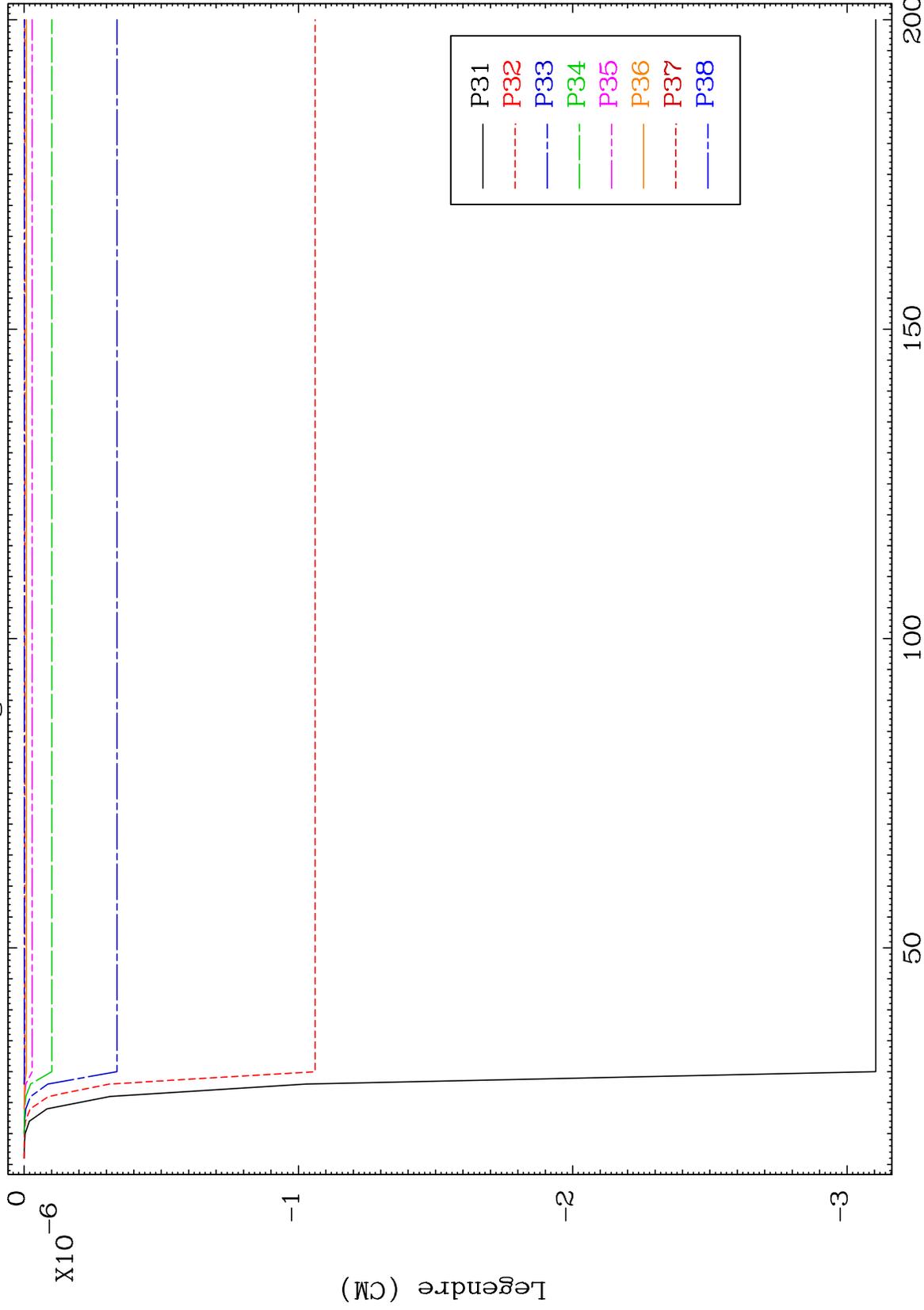
29

83-Bi-212

MAT 8334

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

83-Bi-212



30

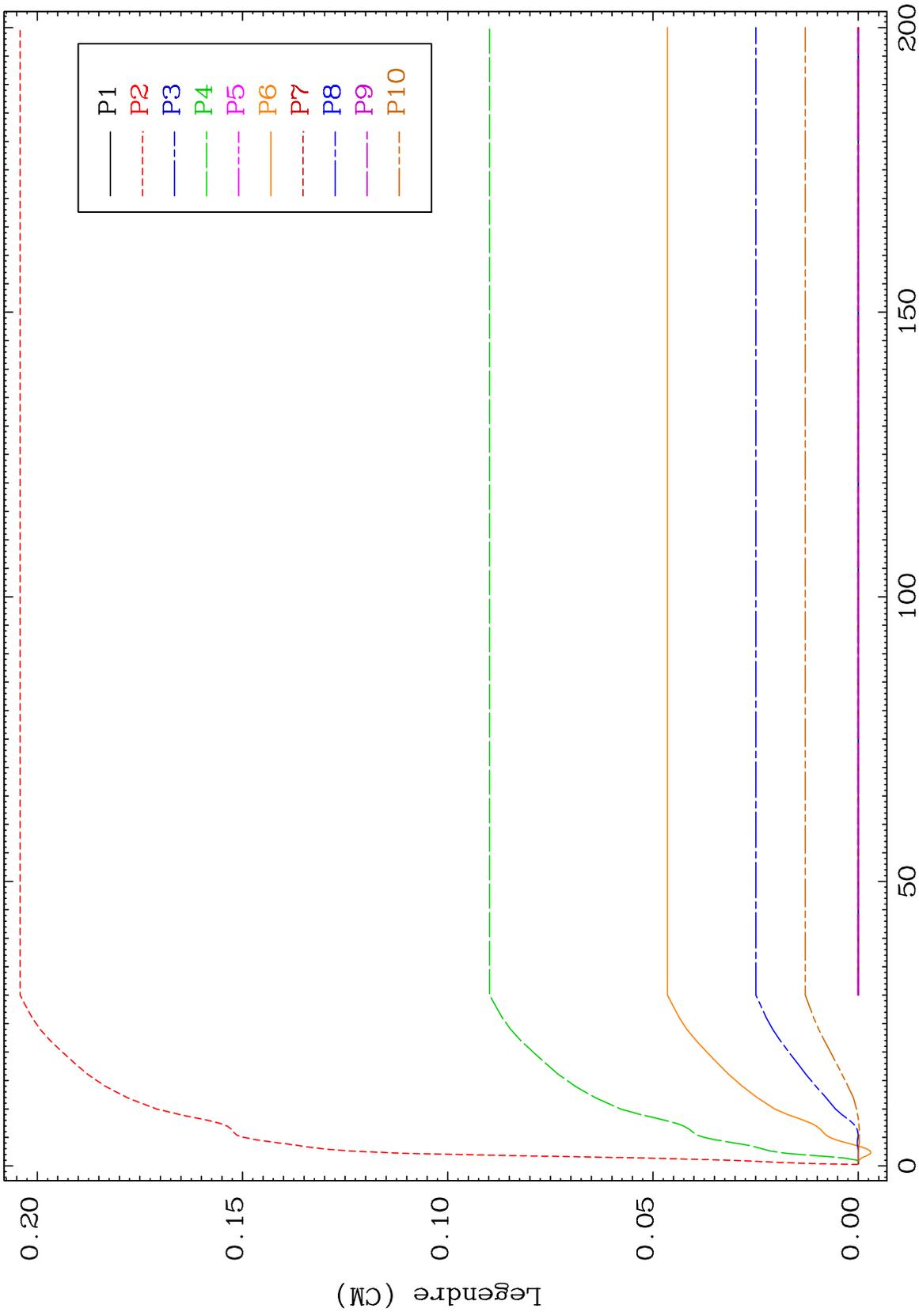
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



31

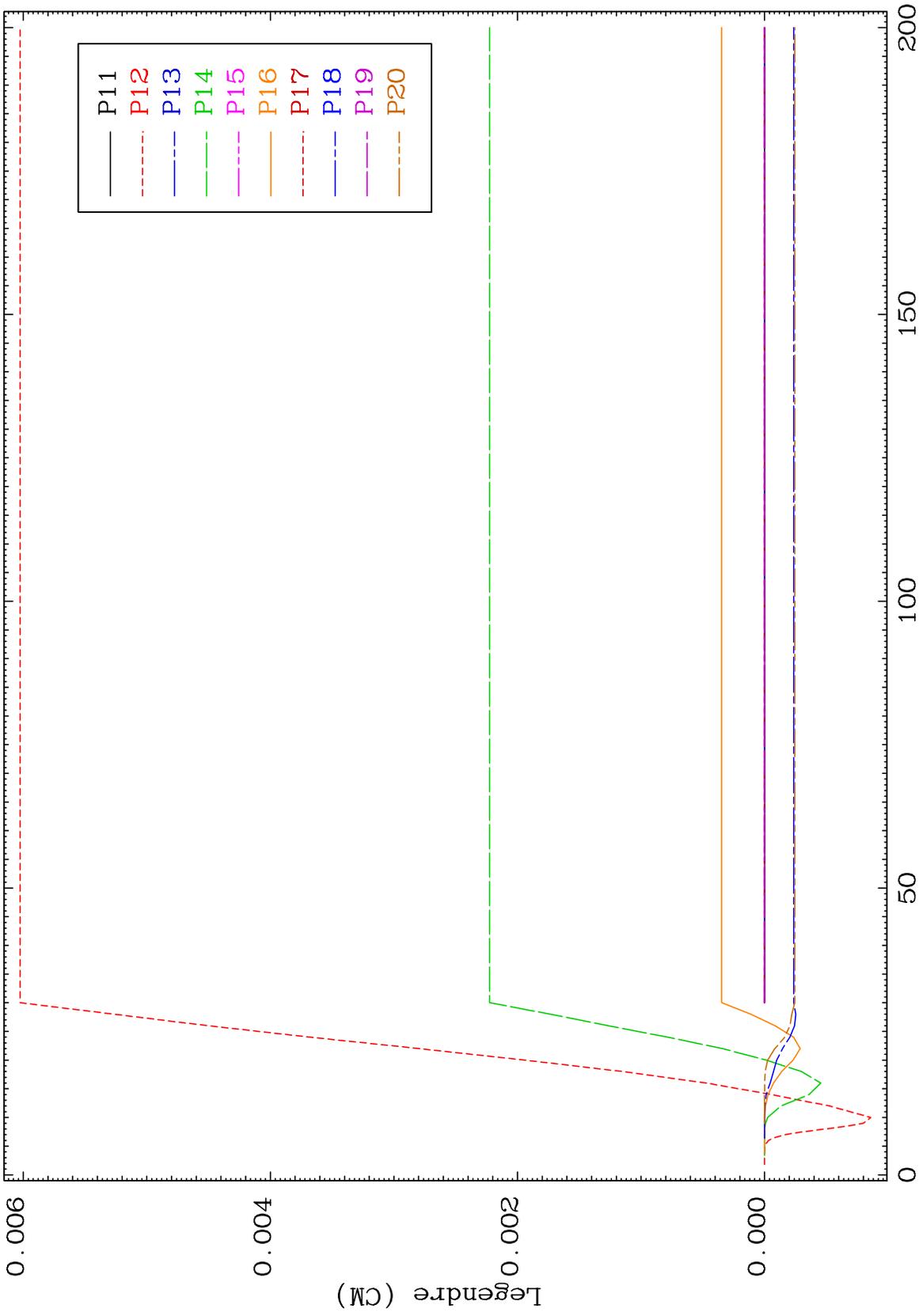
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



32

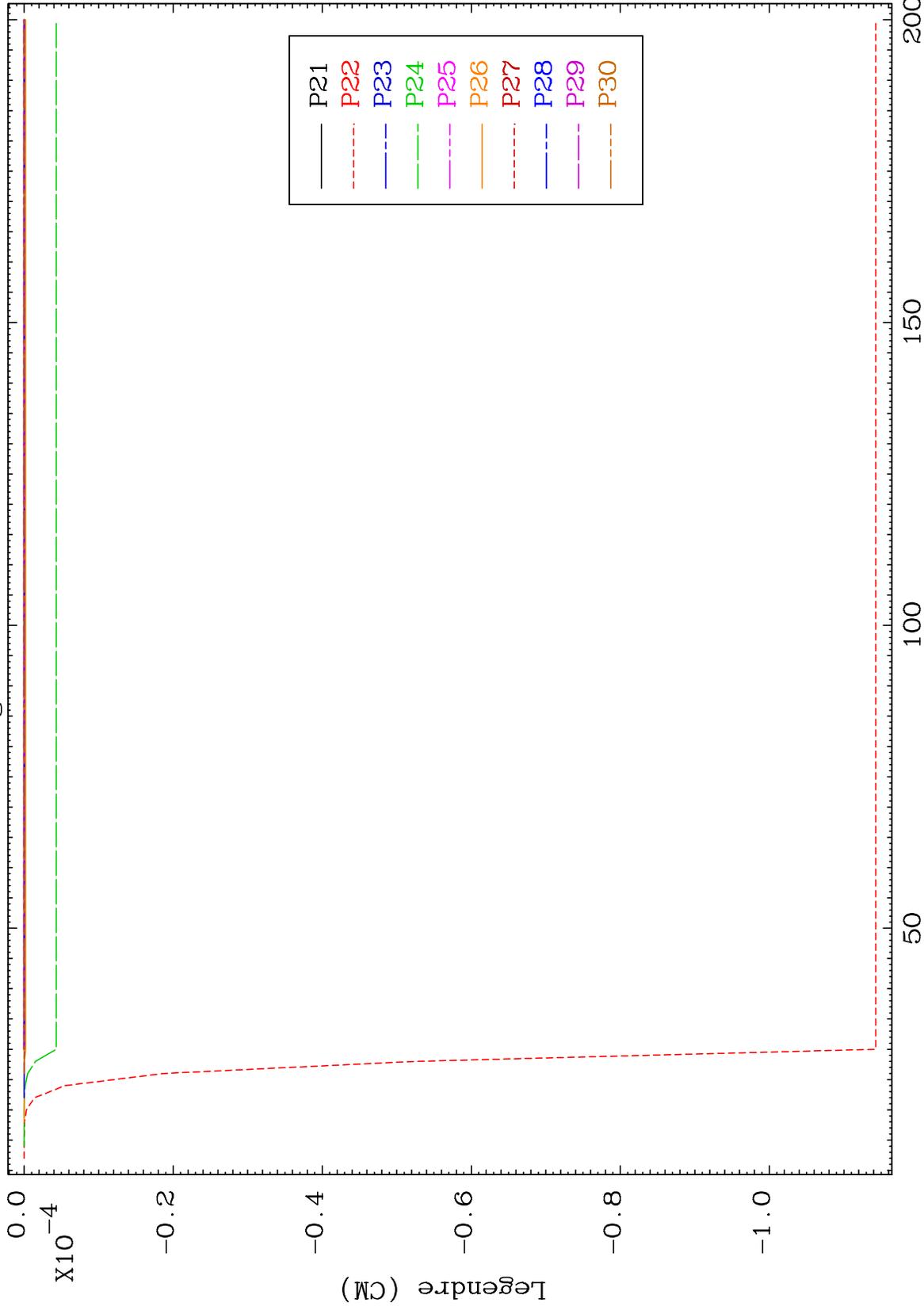
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



33

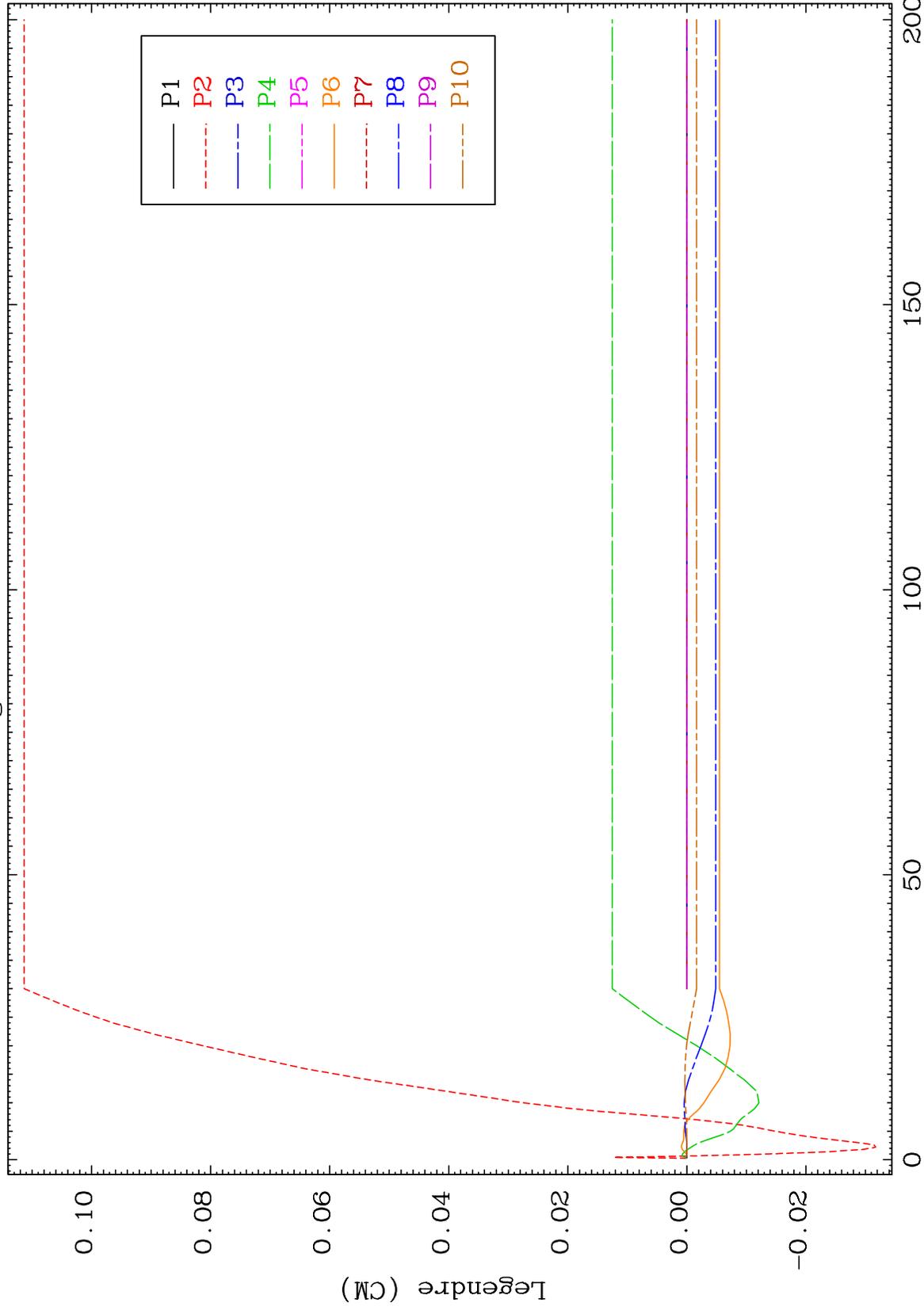
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



34

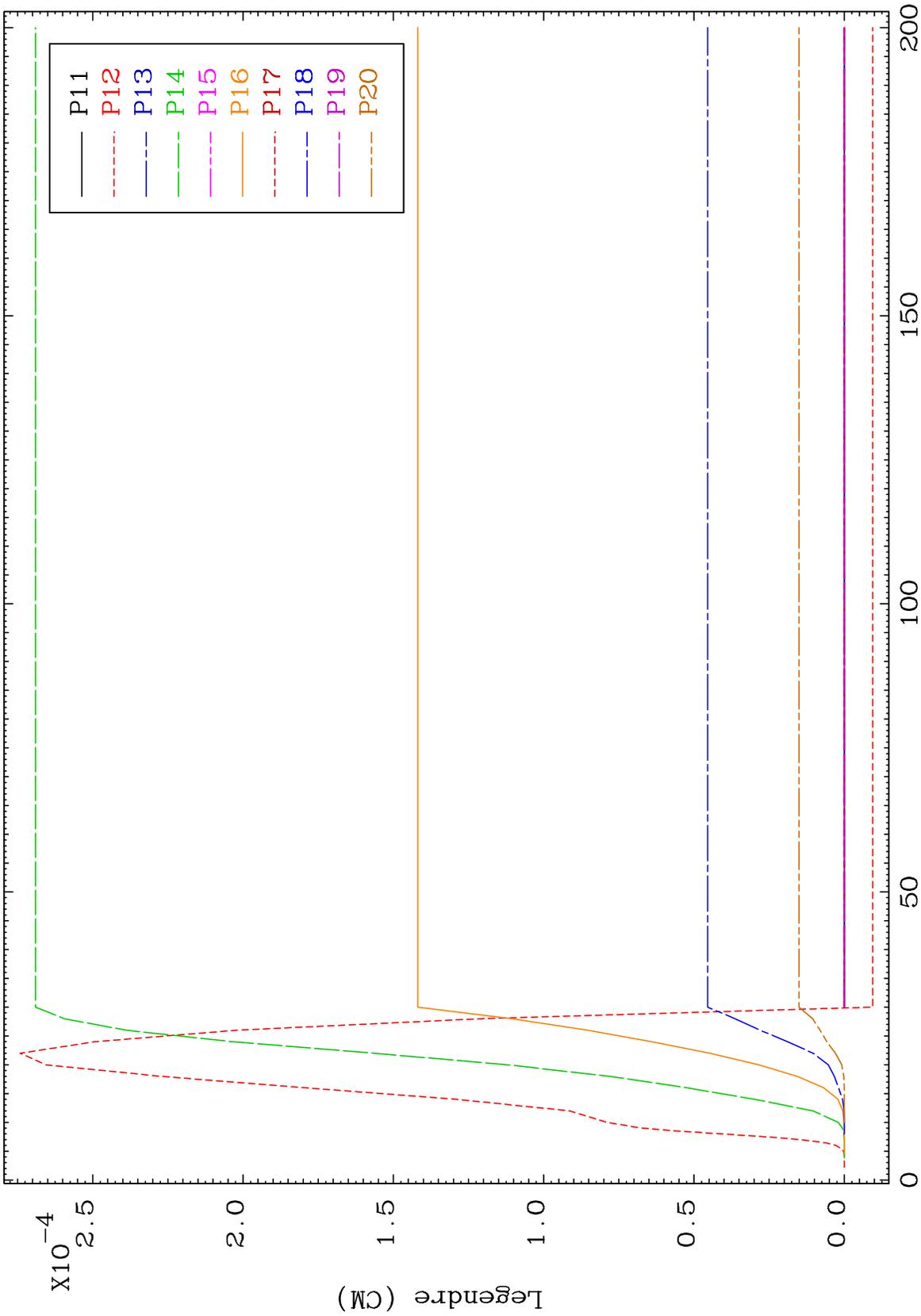
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



35

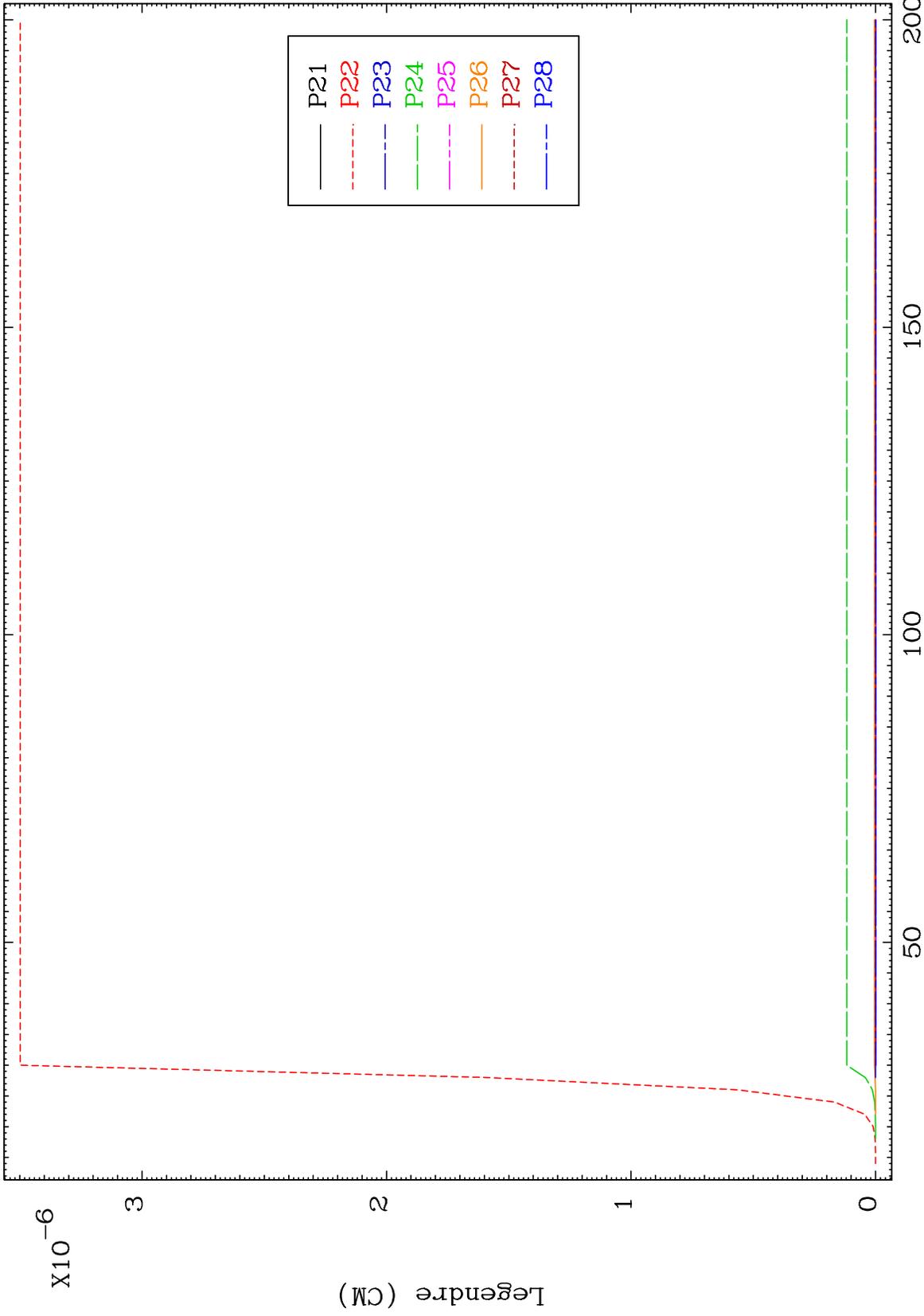
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



36

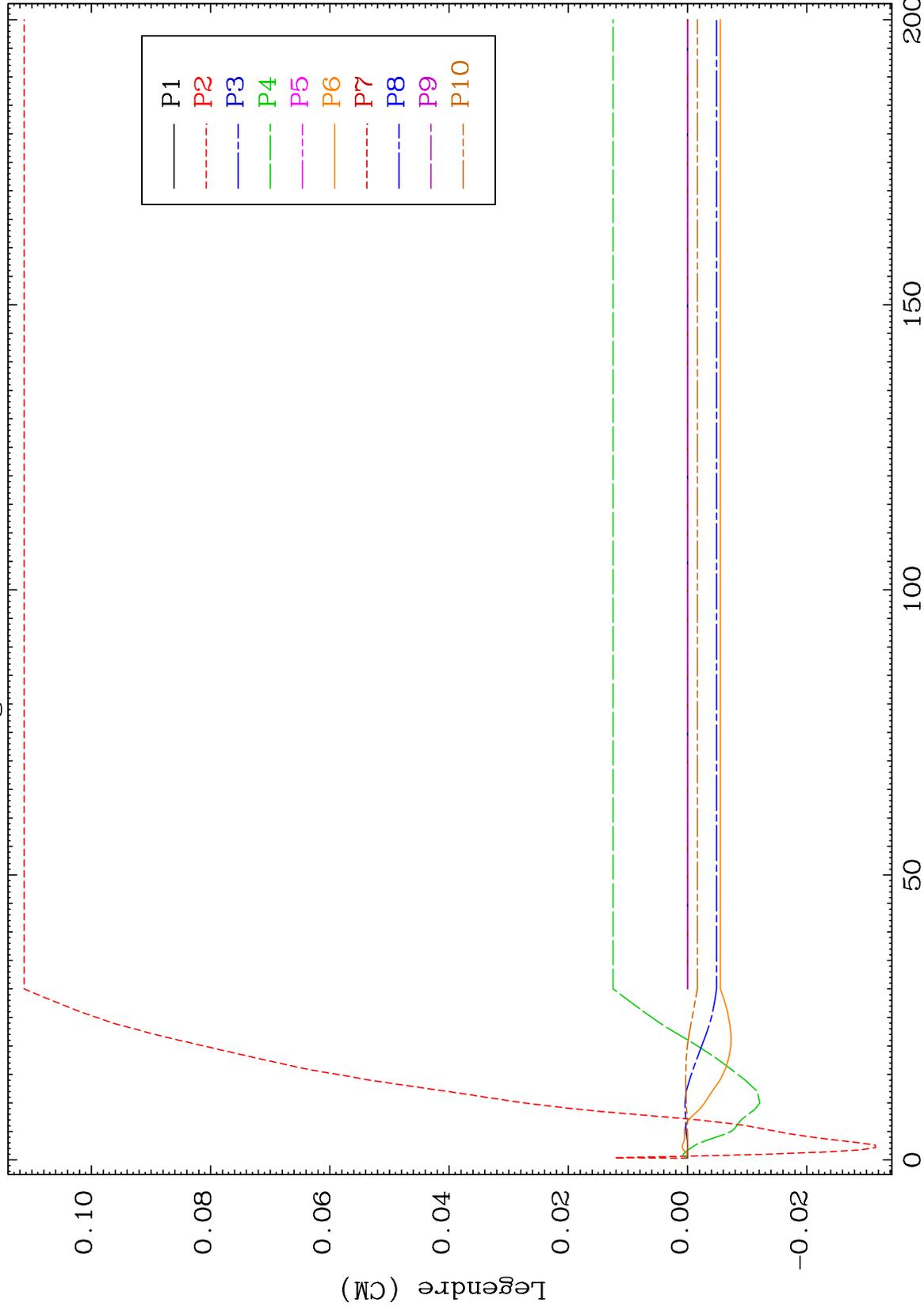
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



37

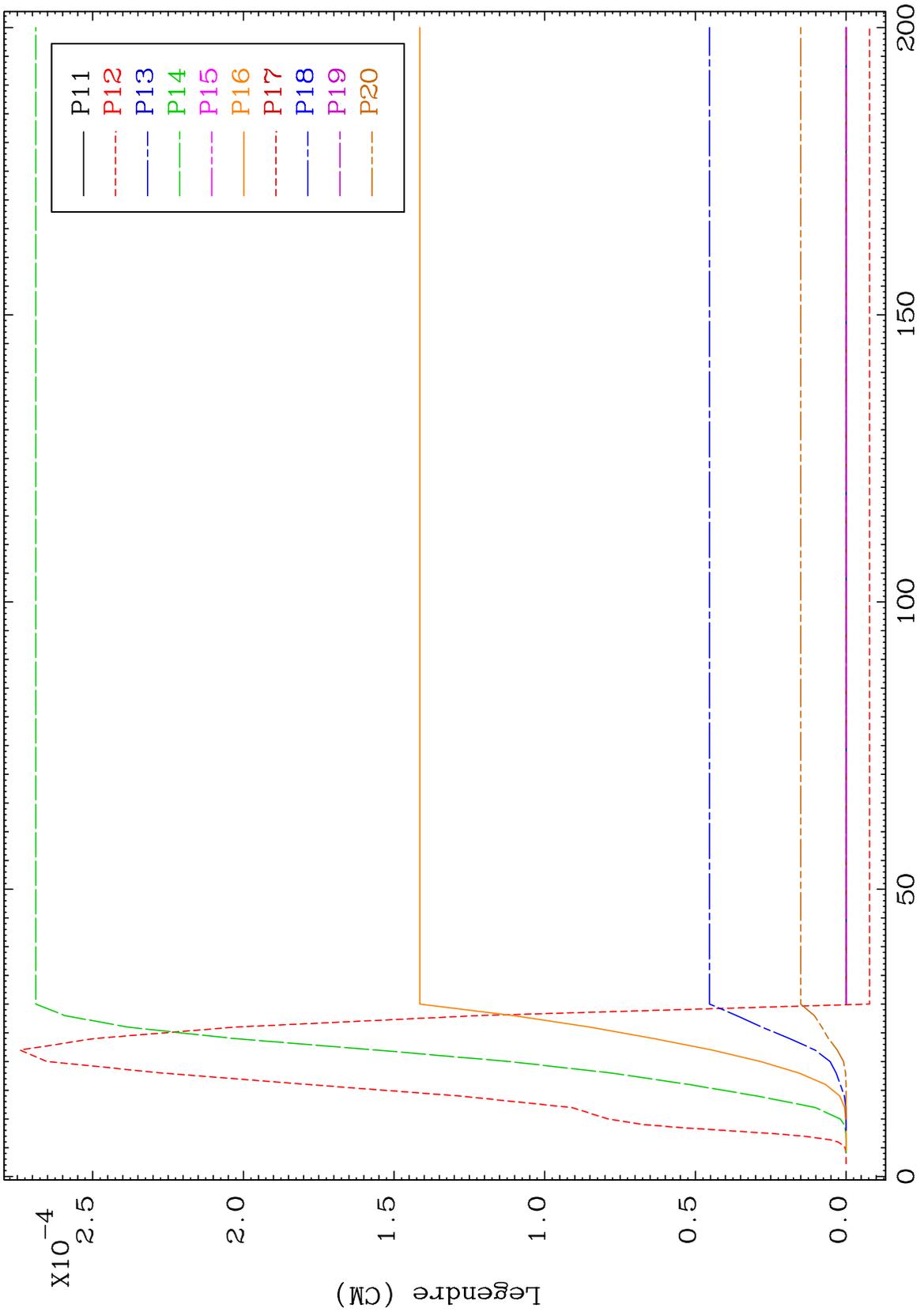
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



38

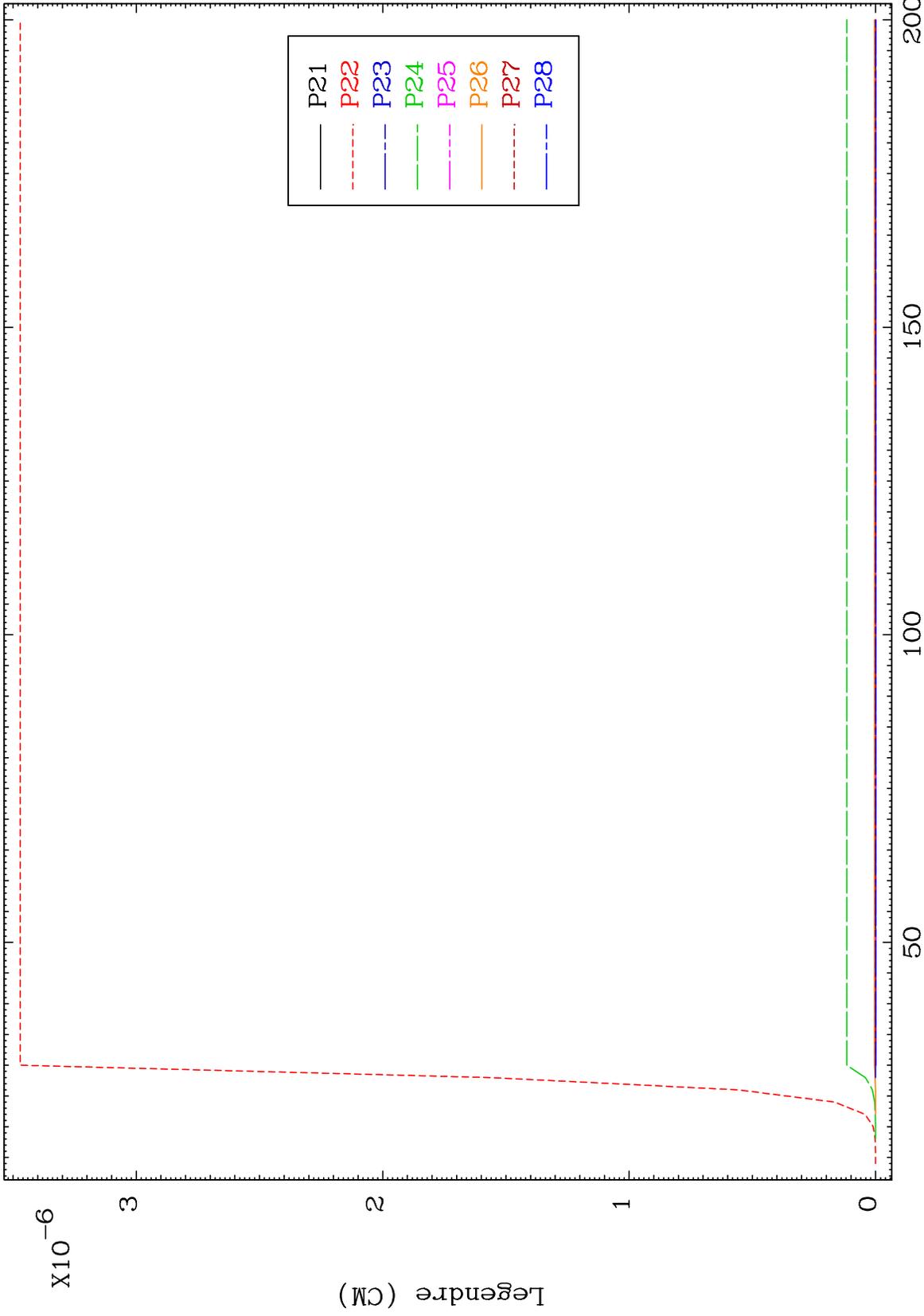
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



39

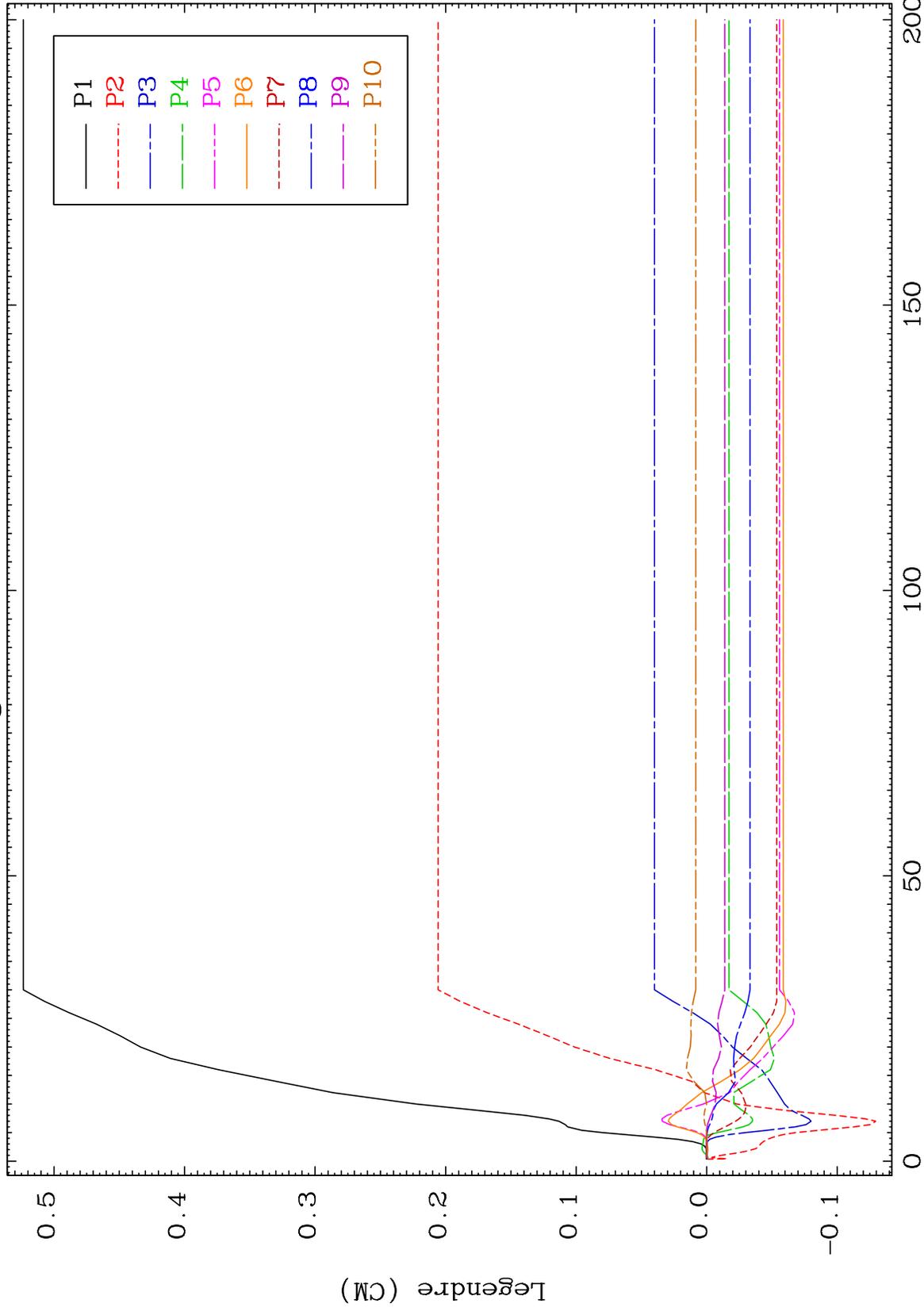
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



83-Bi-212

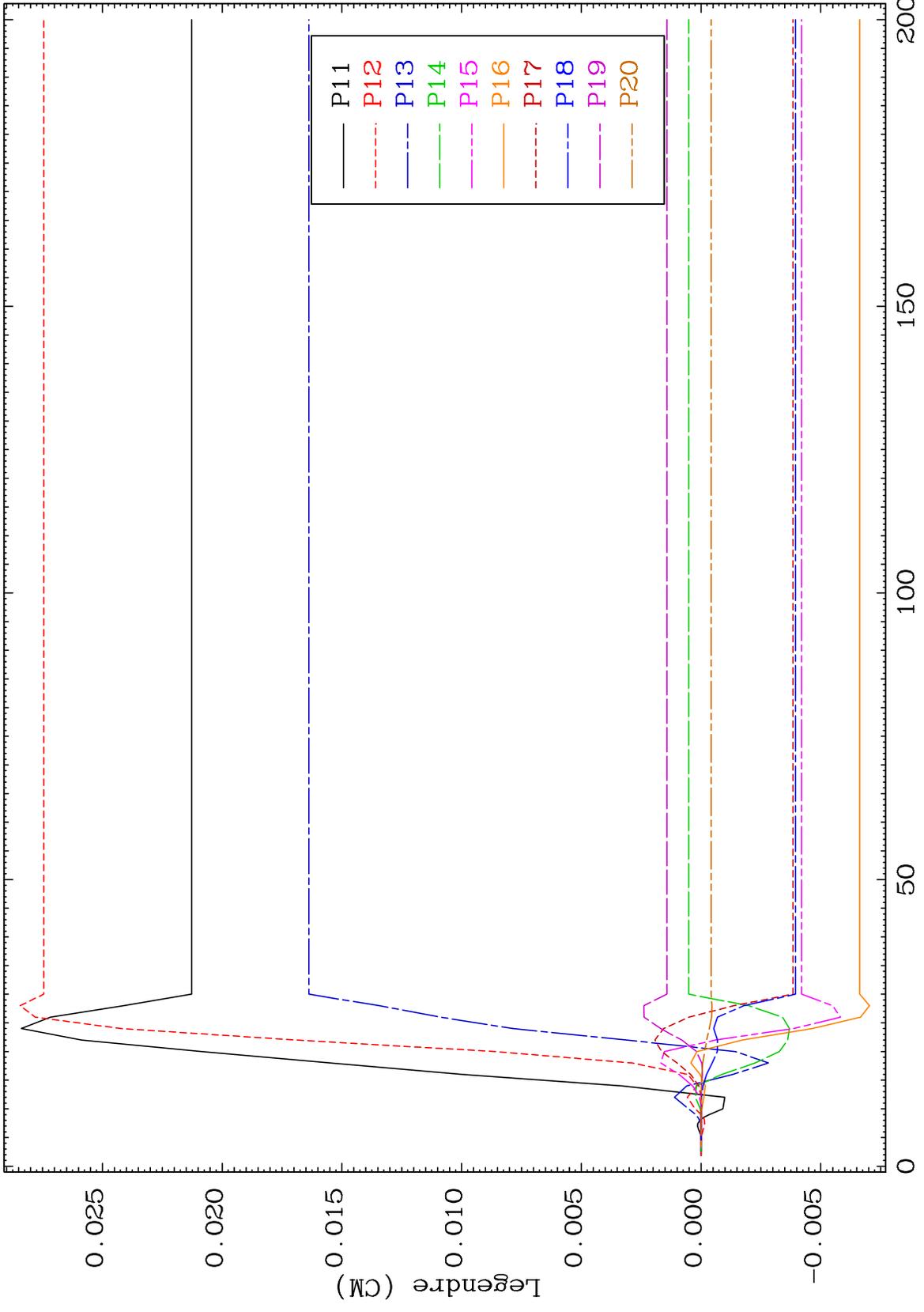
Incident Energy (MeV)

Legendre (CM)

MAT 8334

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

83-Bi-212



41

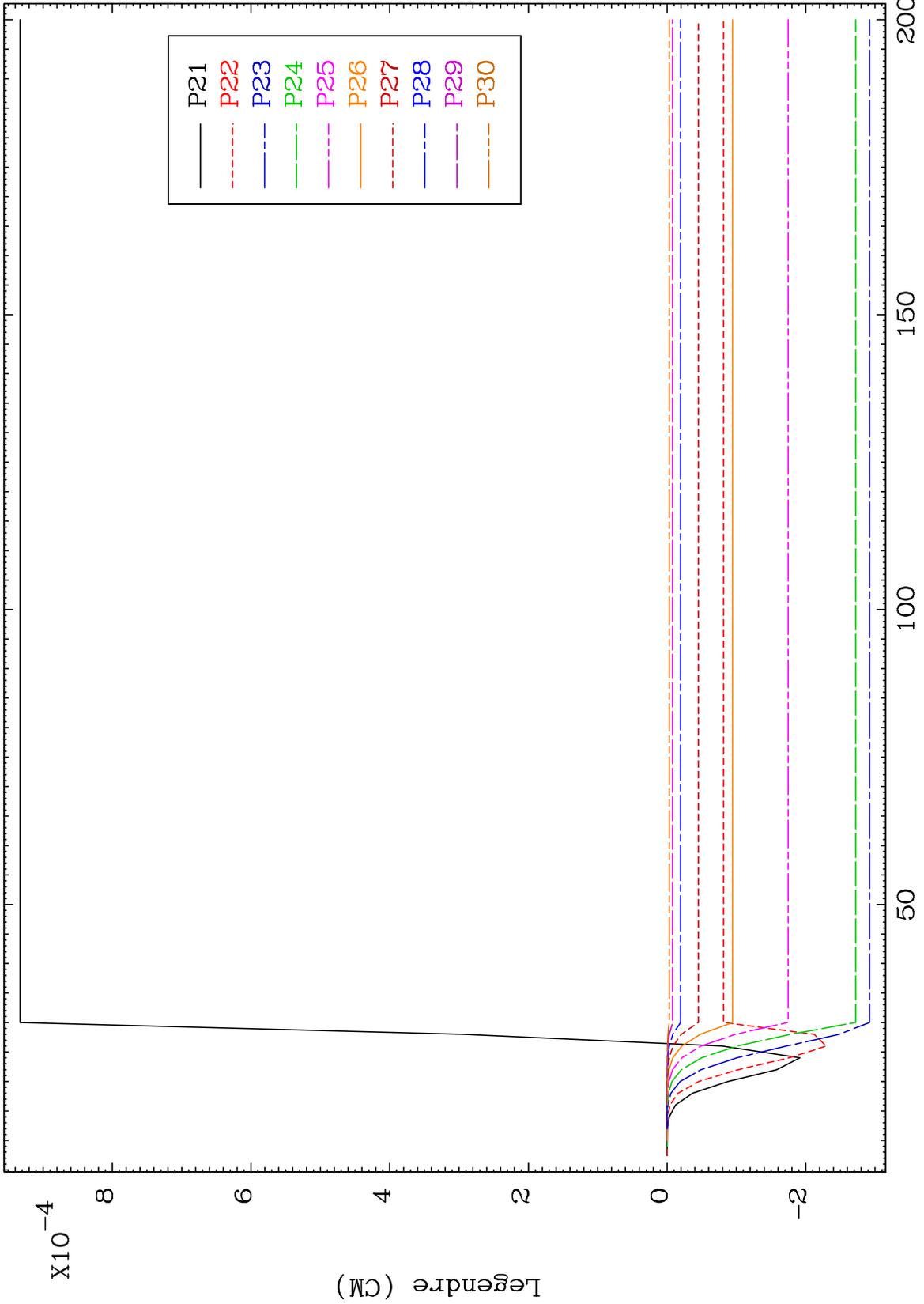
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



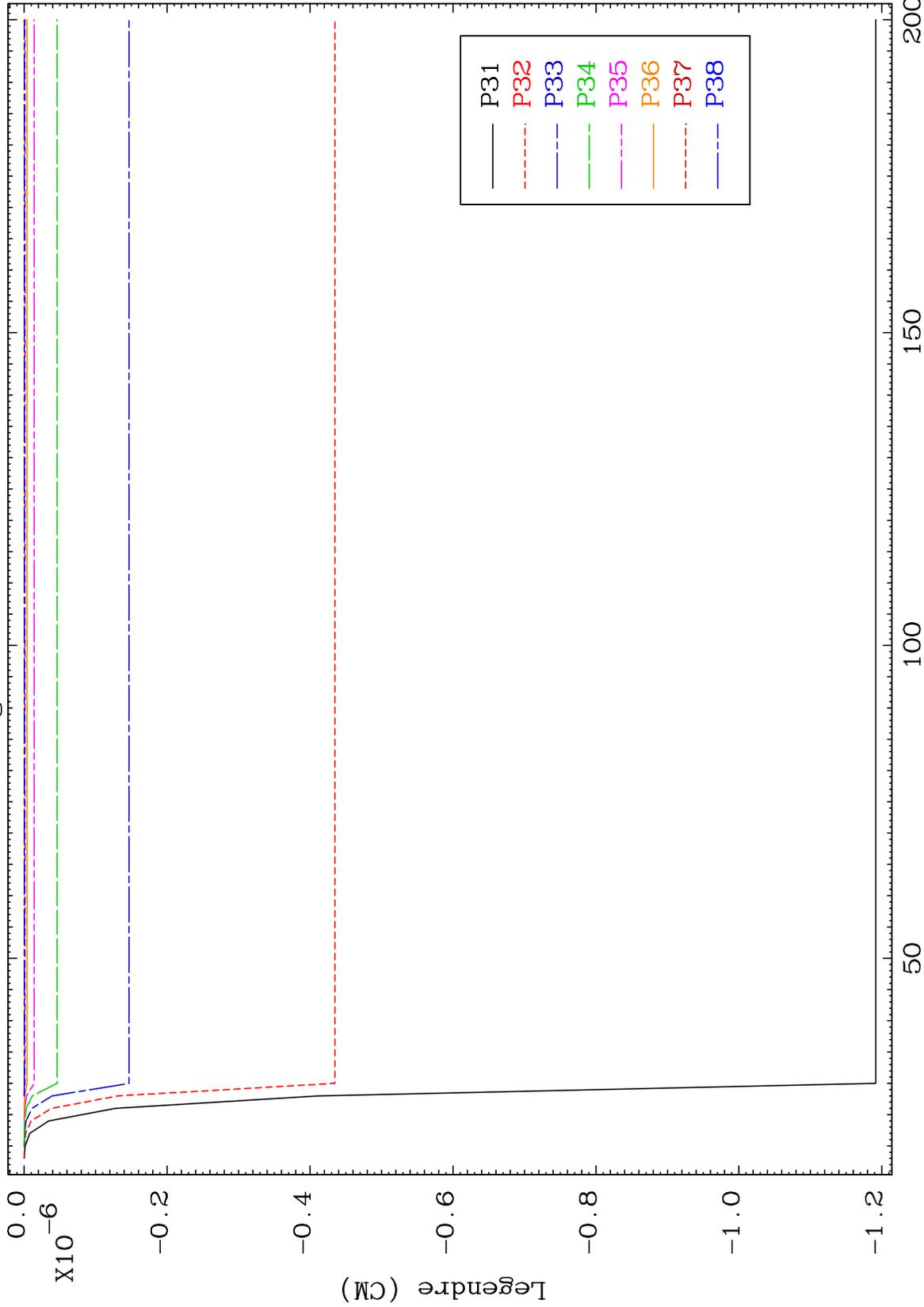
42

83-Bi-212

MAT 8334

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

83-Bi-212



43

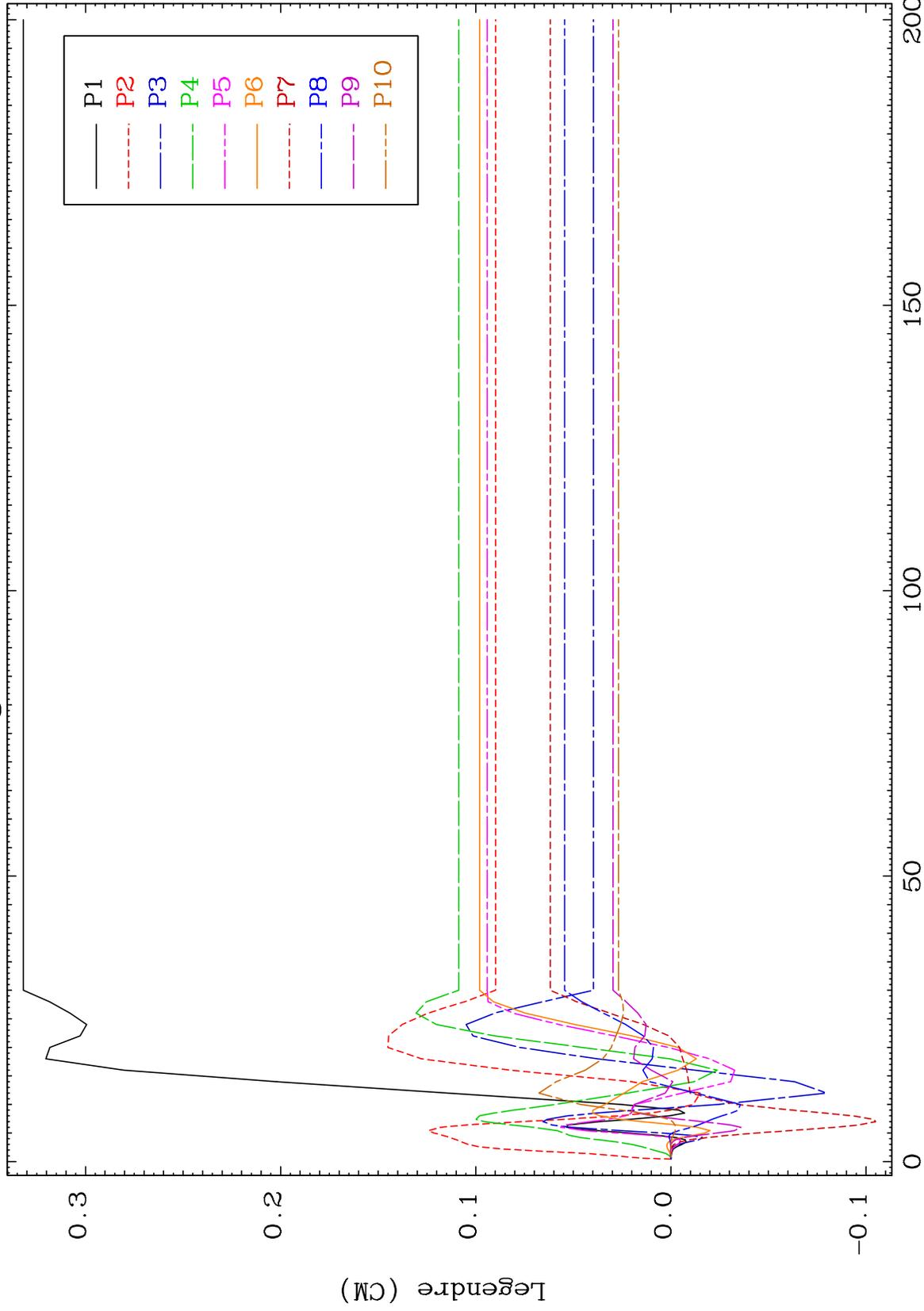
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



44

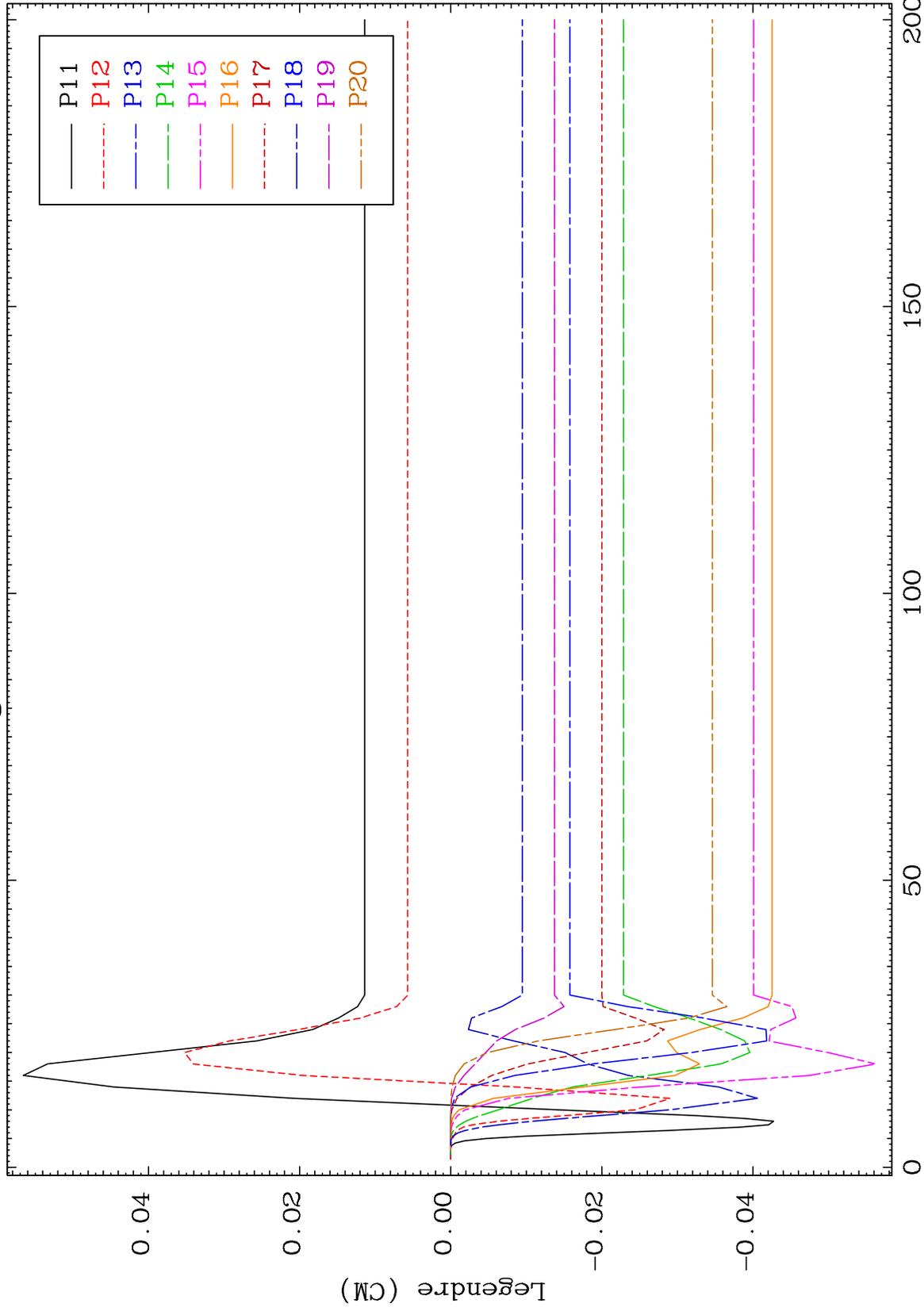
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



45

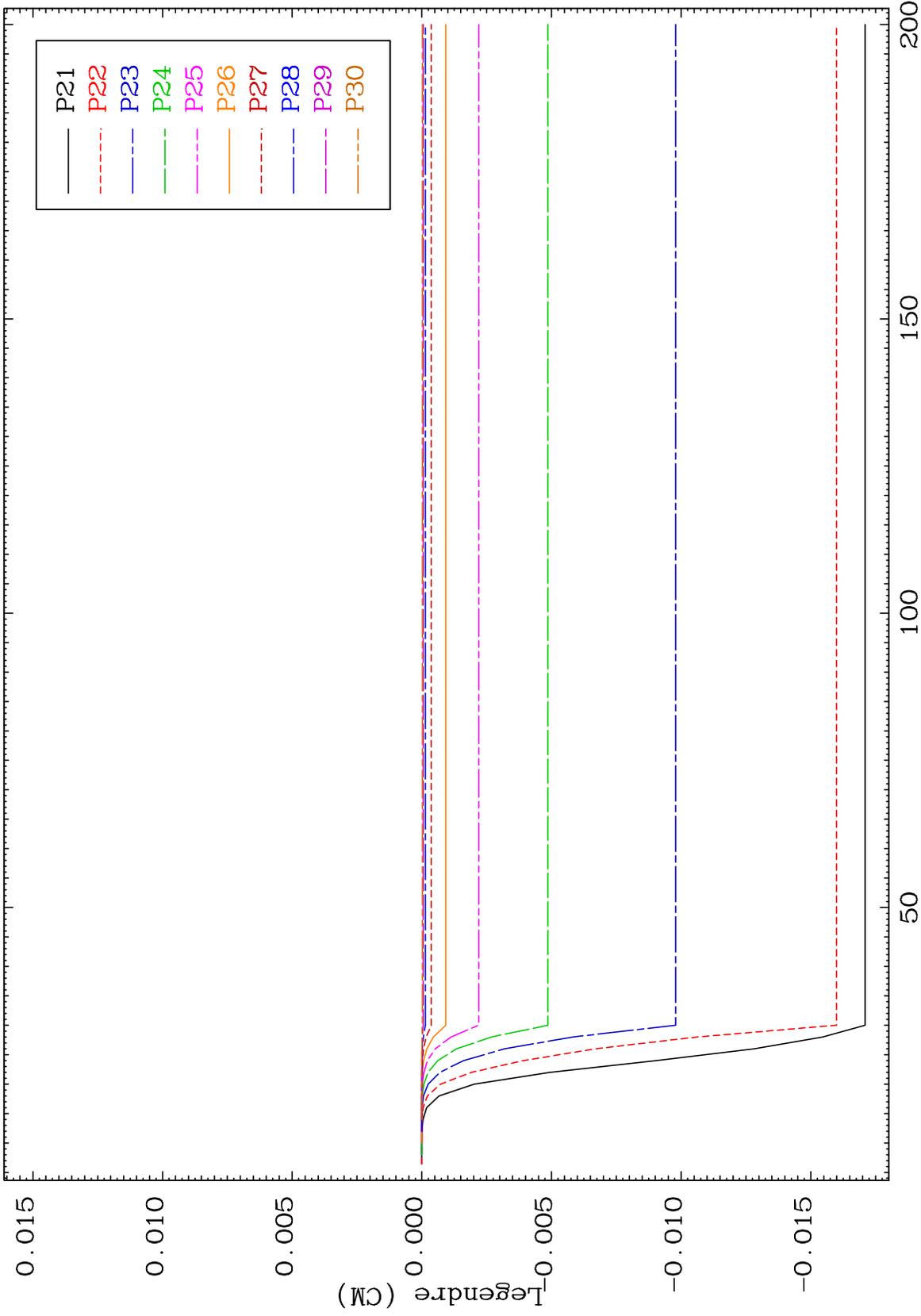
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



46

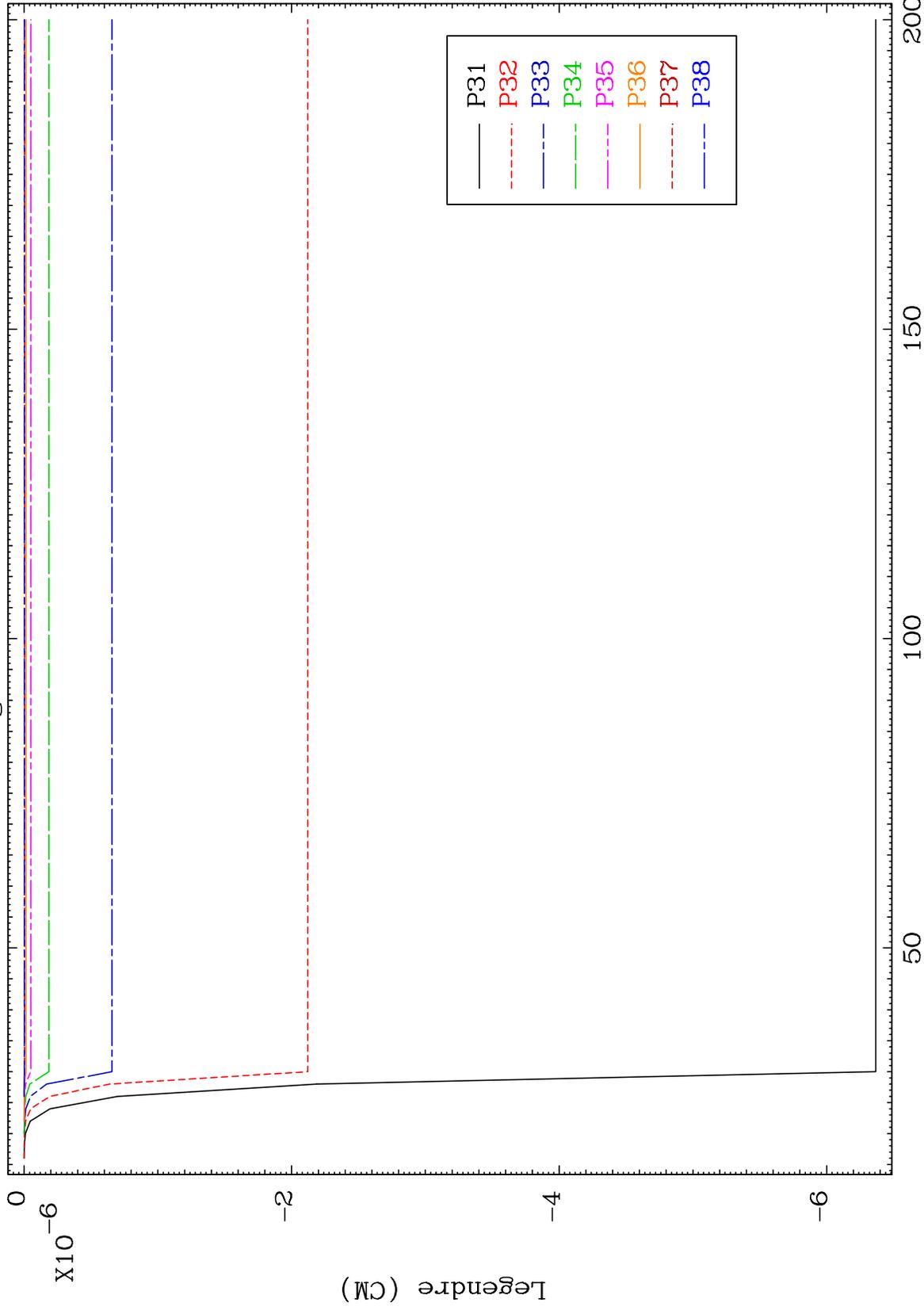
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



47

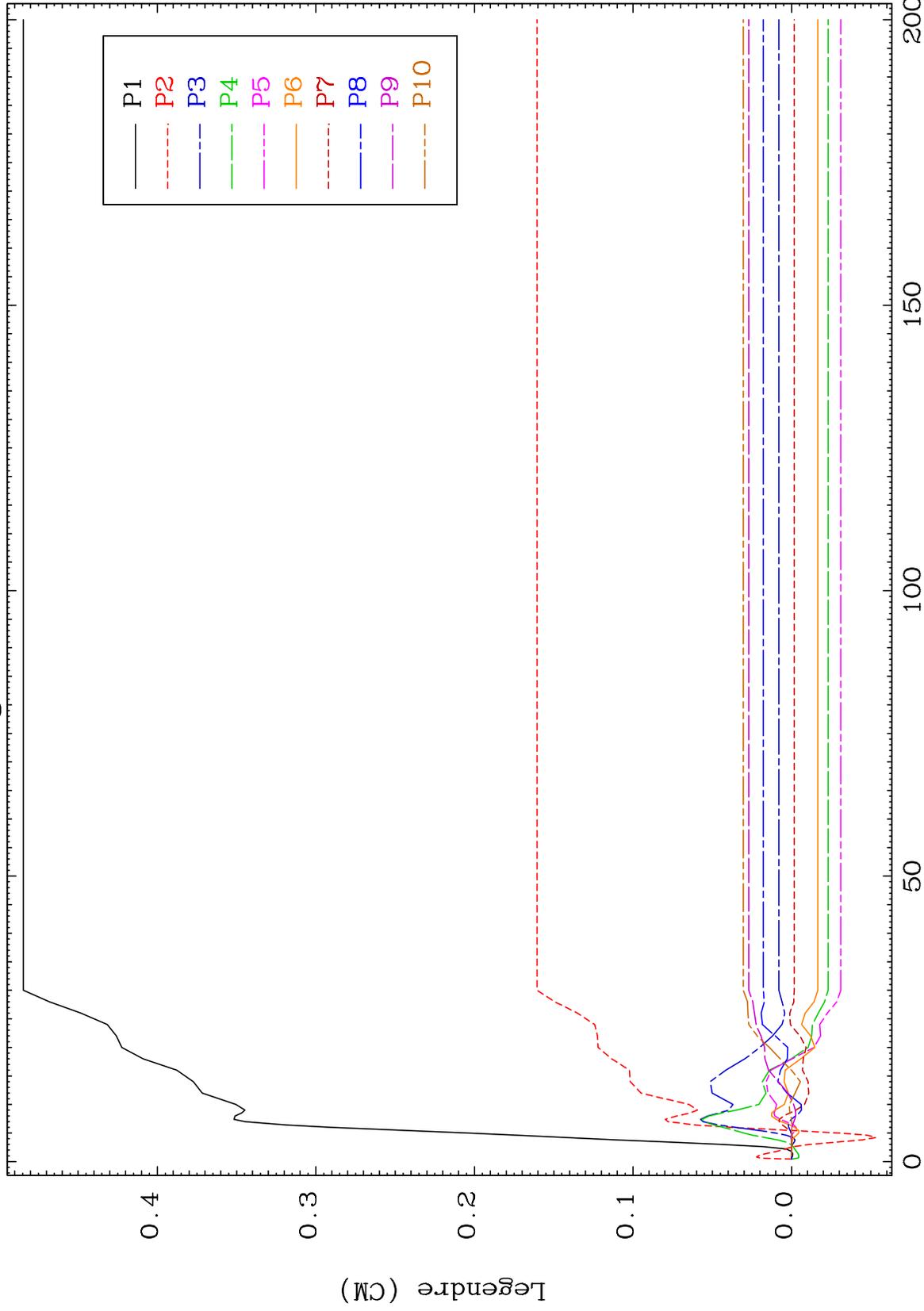
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



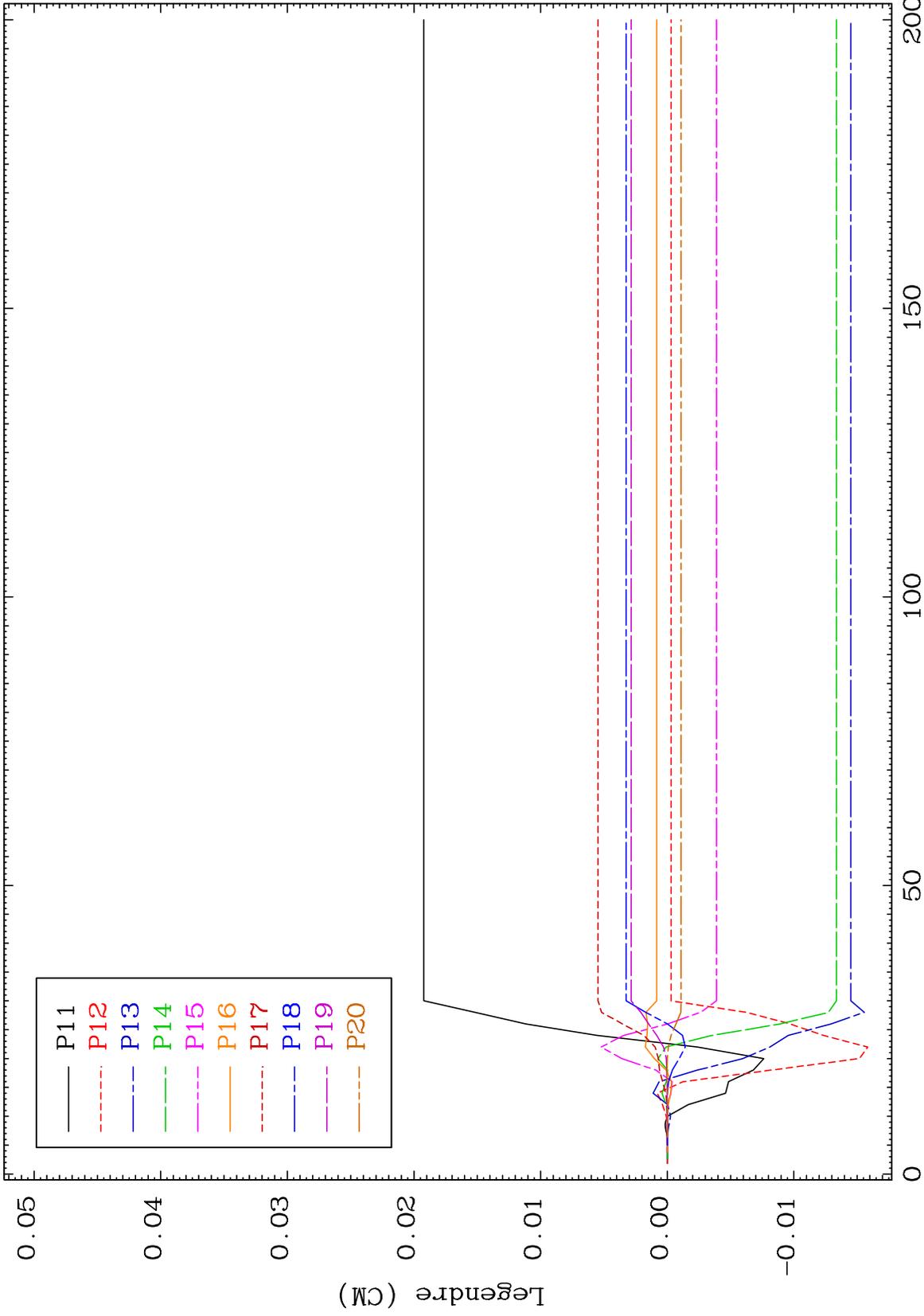
48

83-Bi-212

MAT 8334

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

83-Bi-212



49

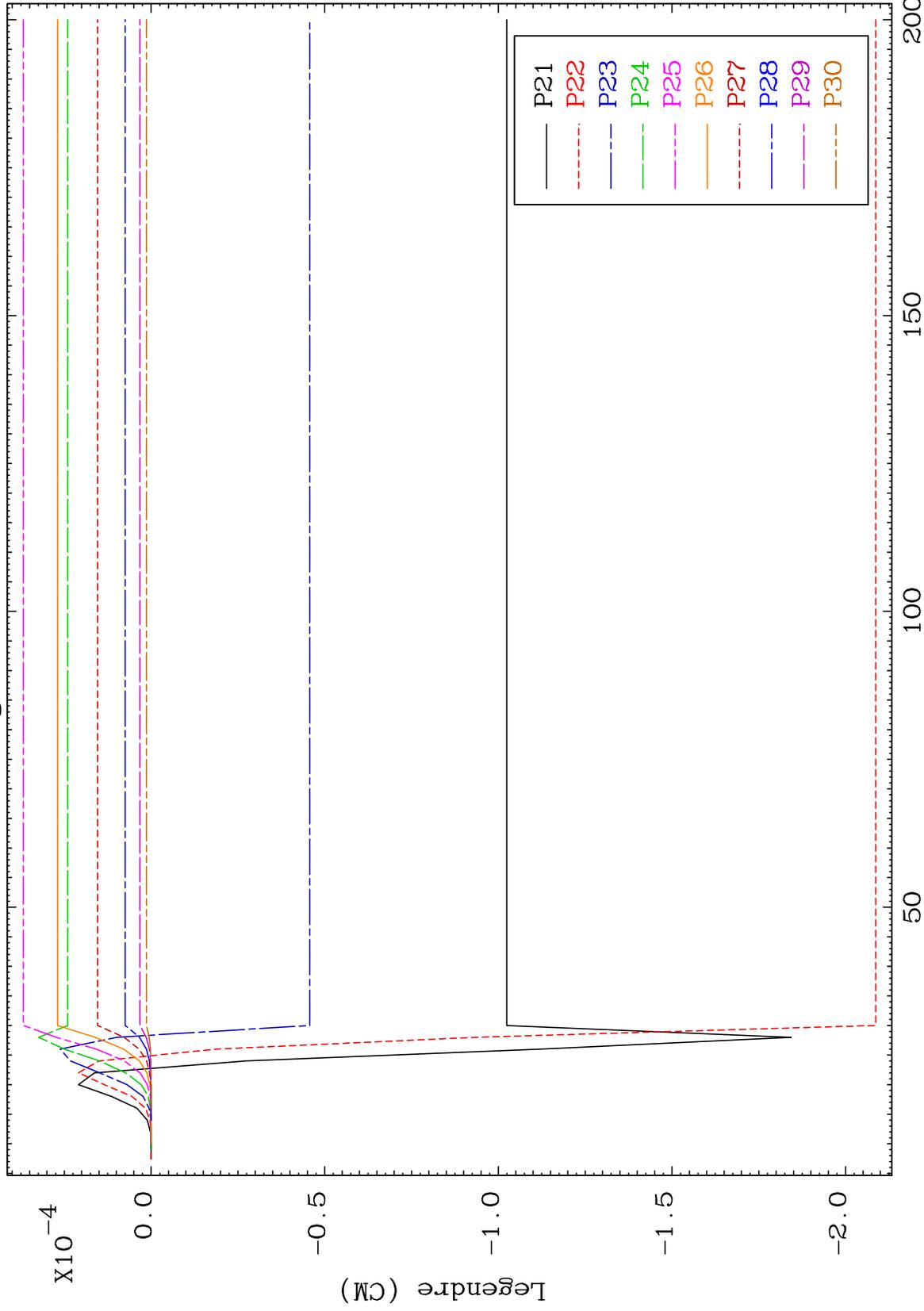
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



50

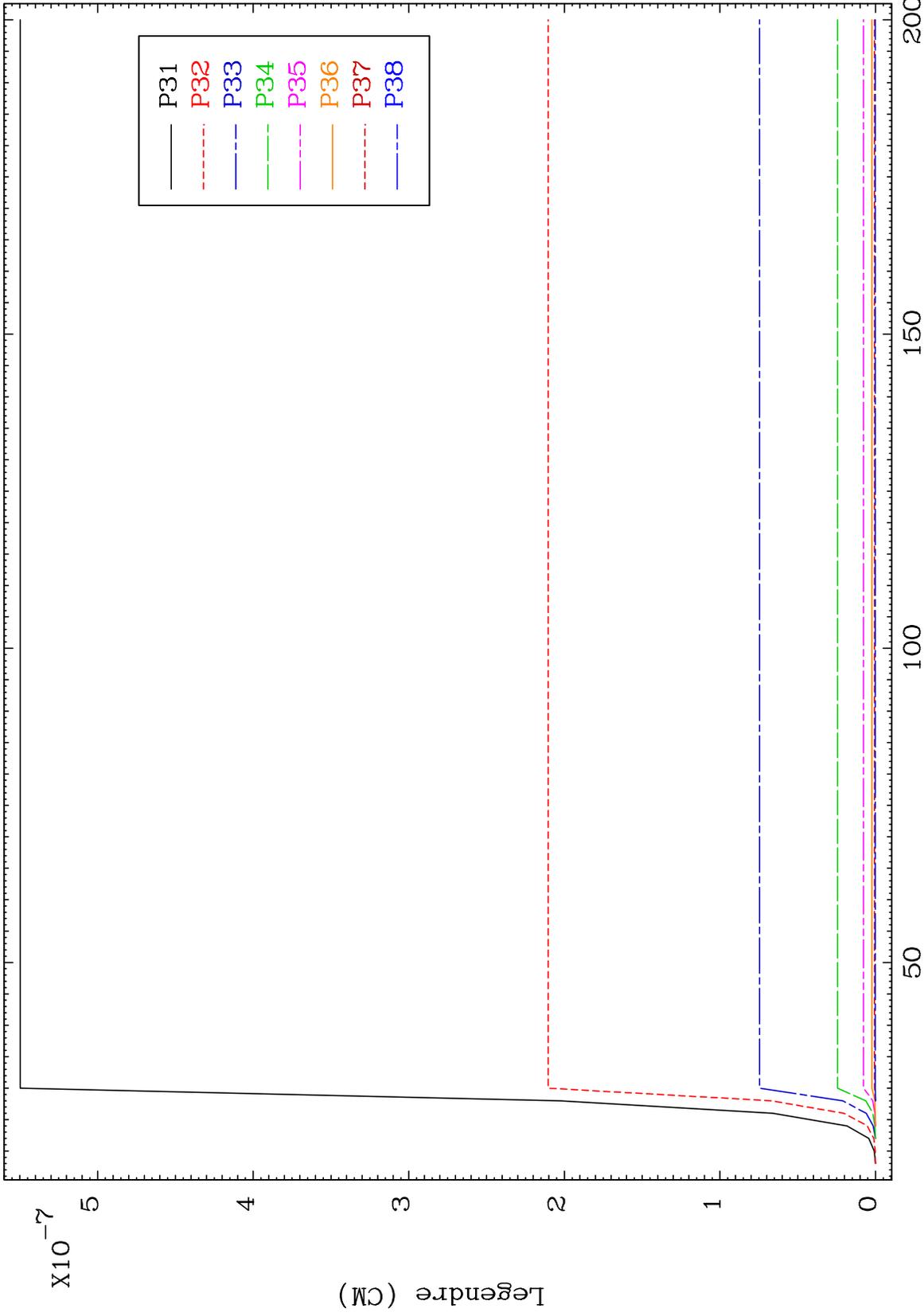
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



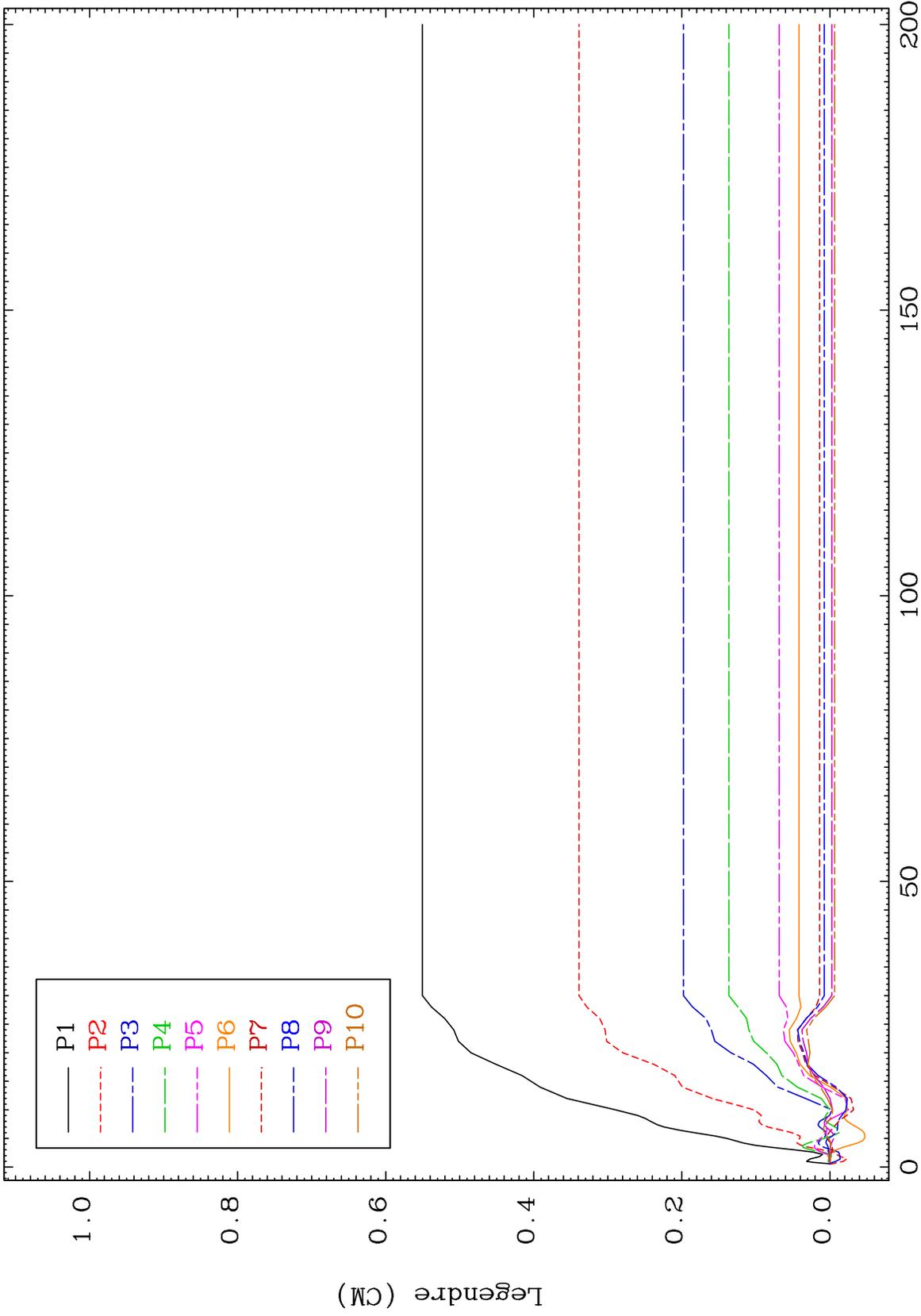
51

83-Bi-212

MAT 8334

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

83-Bi-212



52

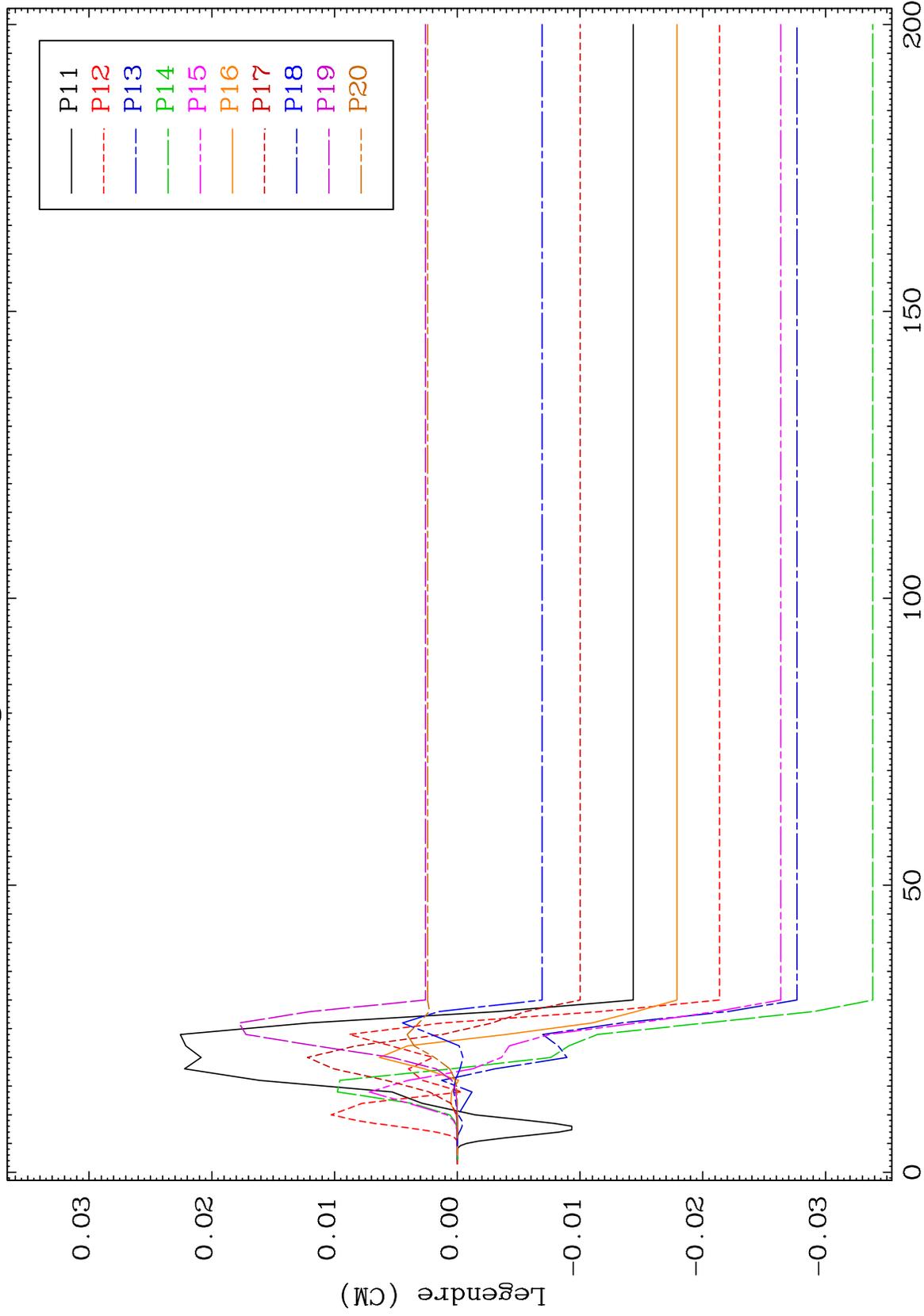
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

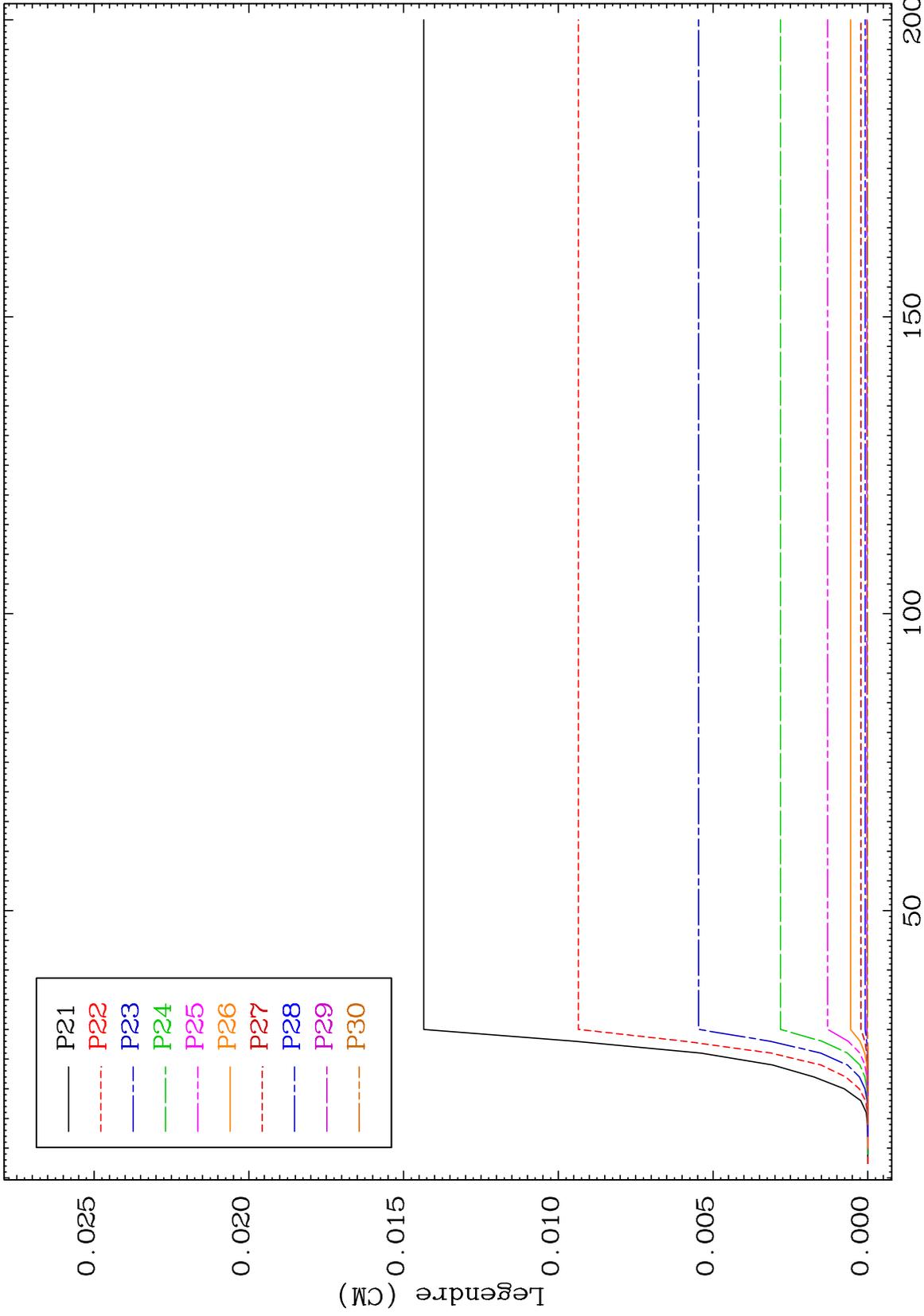
83-Bi-212



53

Incident Energy (MeV)

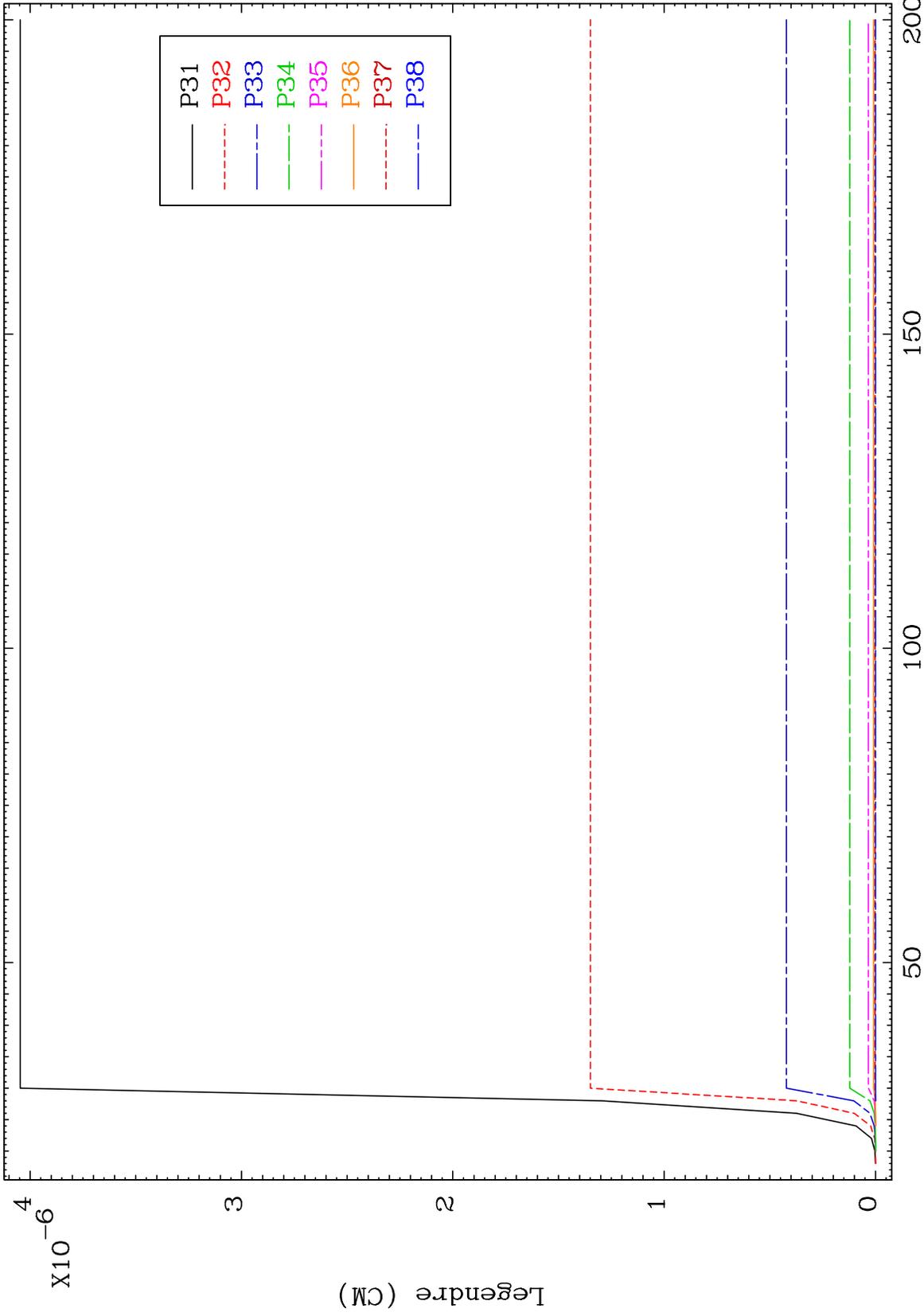
83-Bi-212



MAT 8334

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

83-Bi-212



55

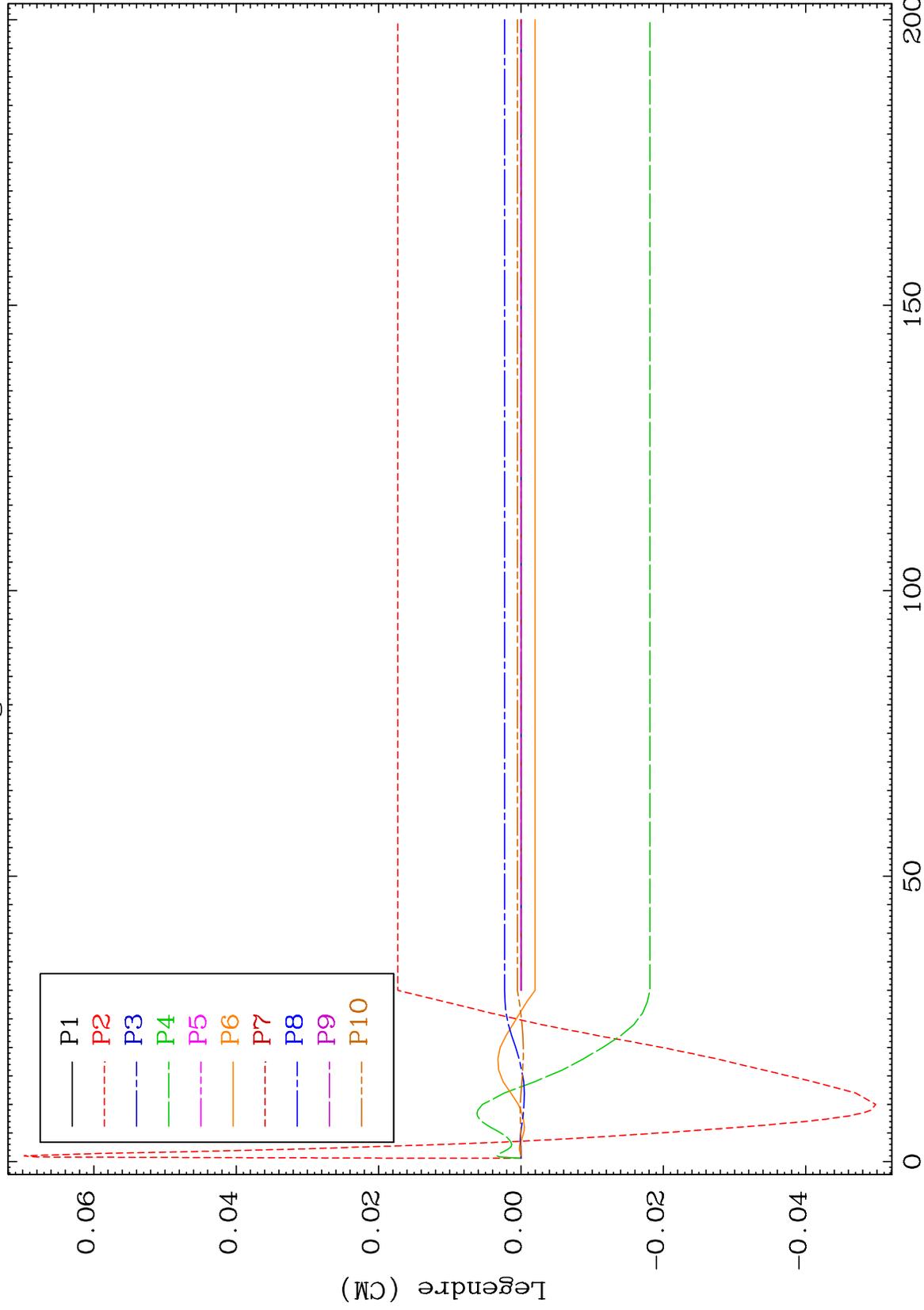
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



56

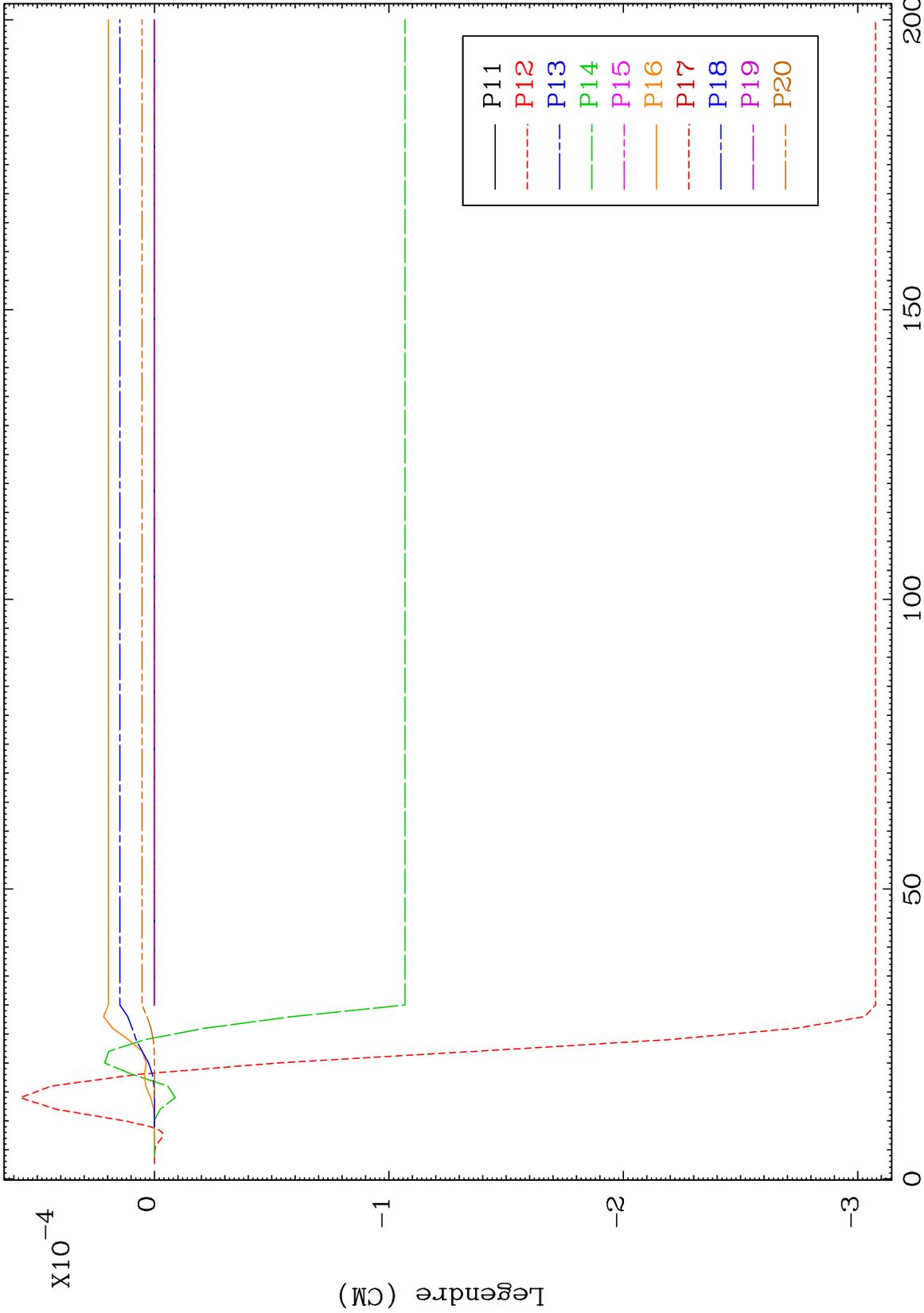
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



57

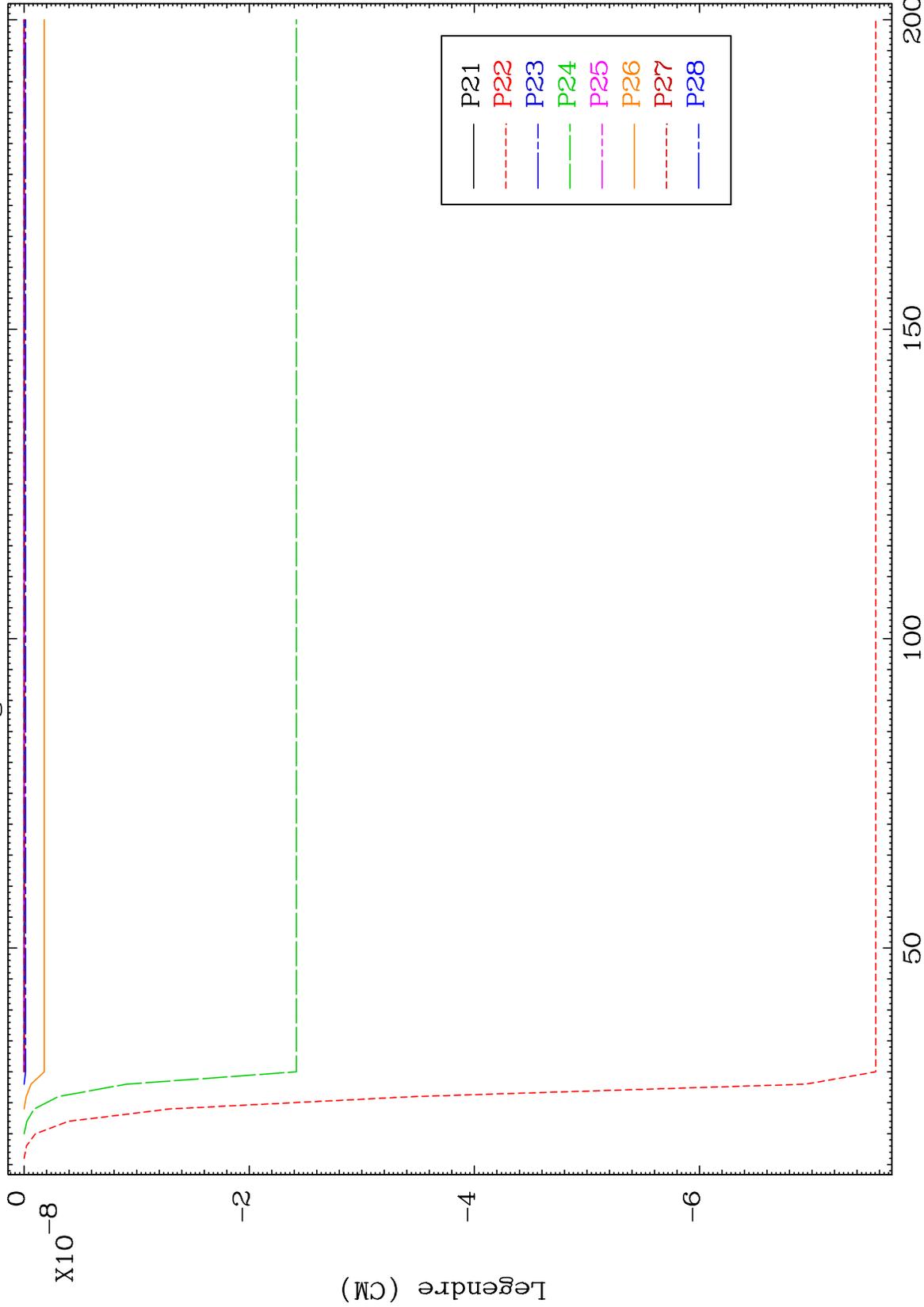
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



58

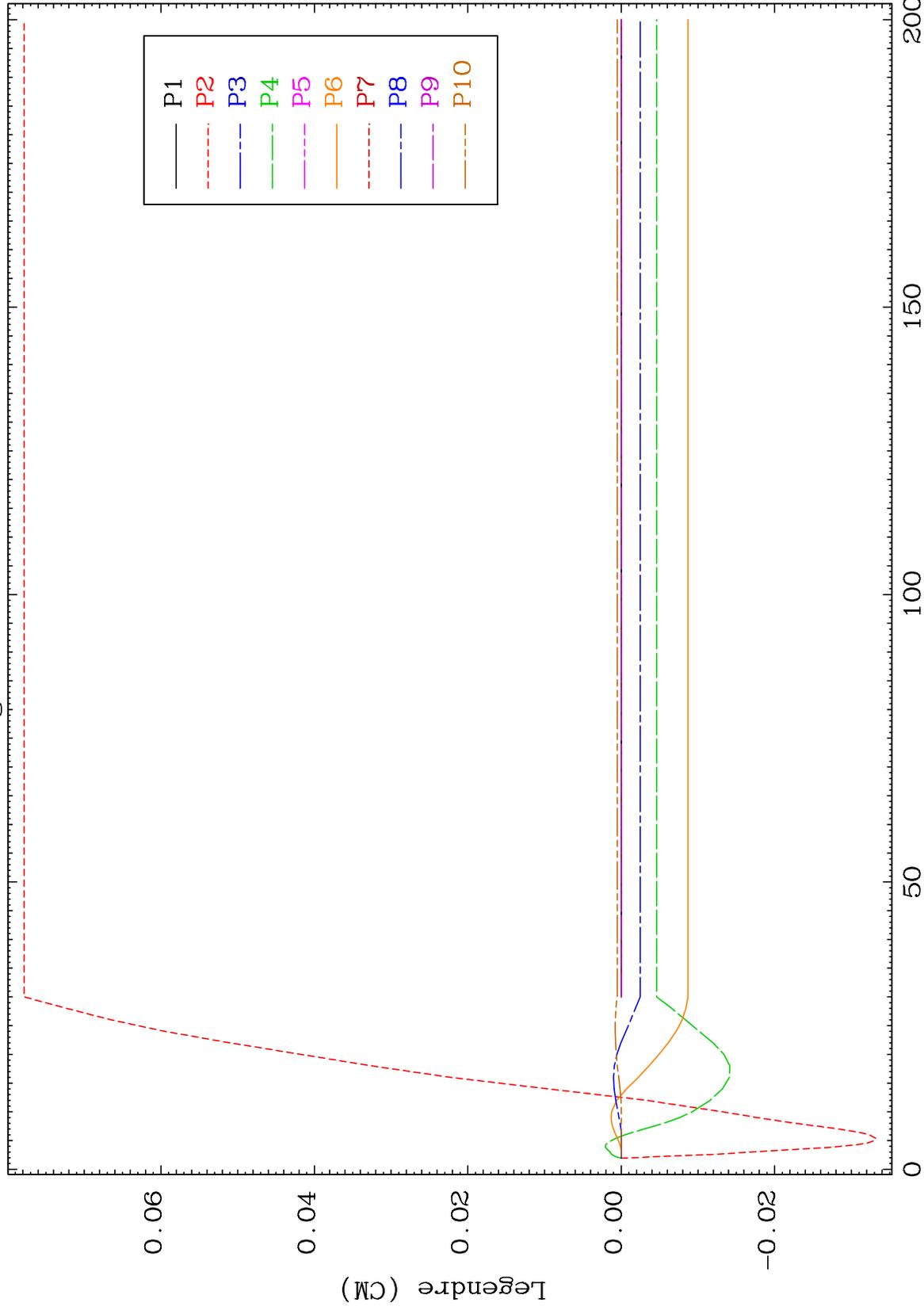
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



59

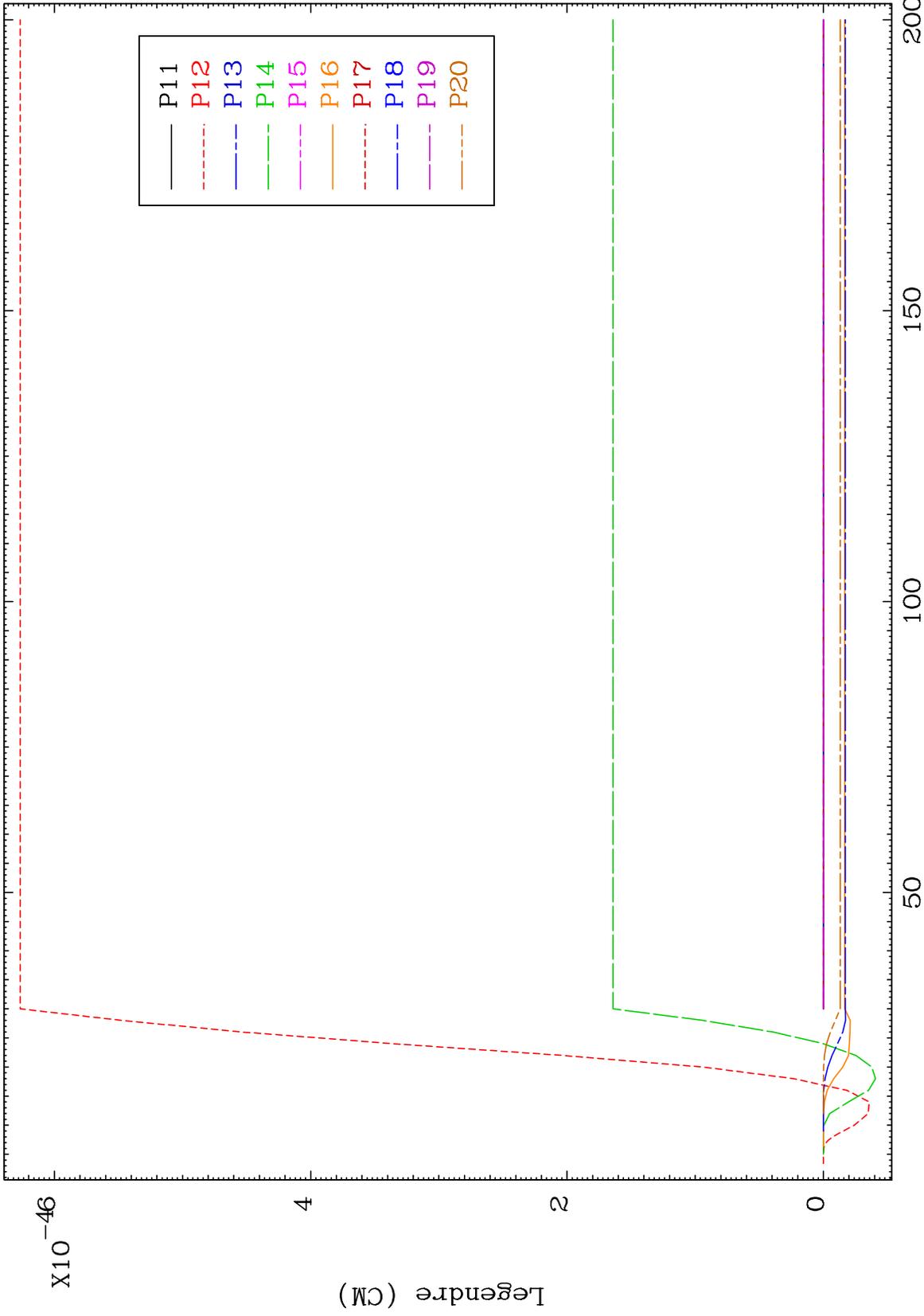
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



60

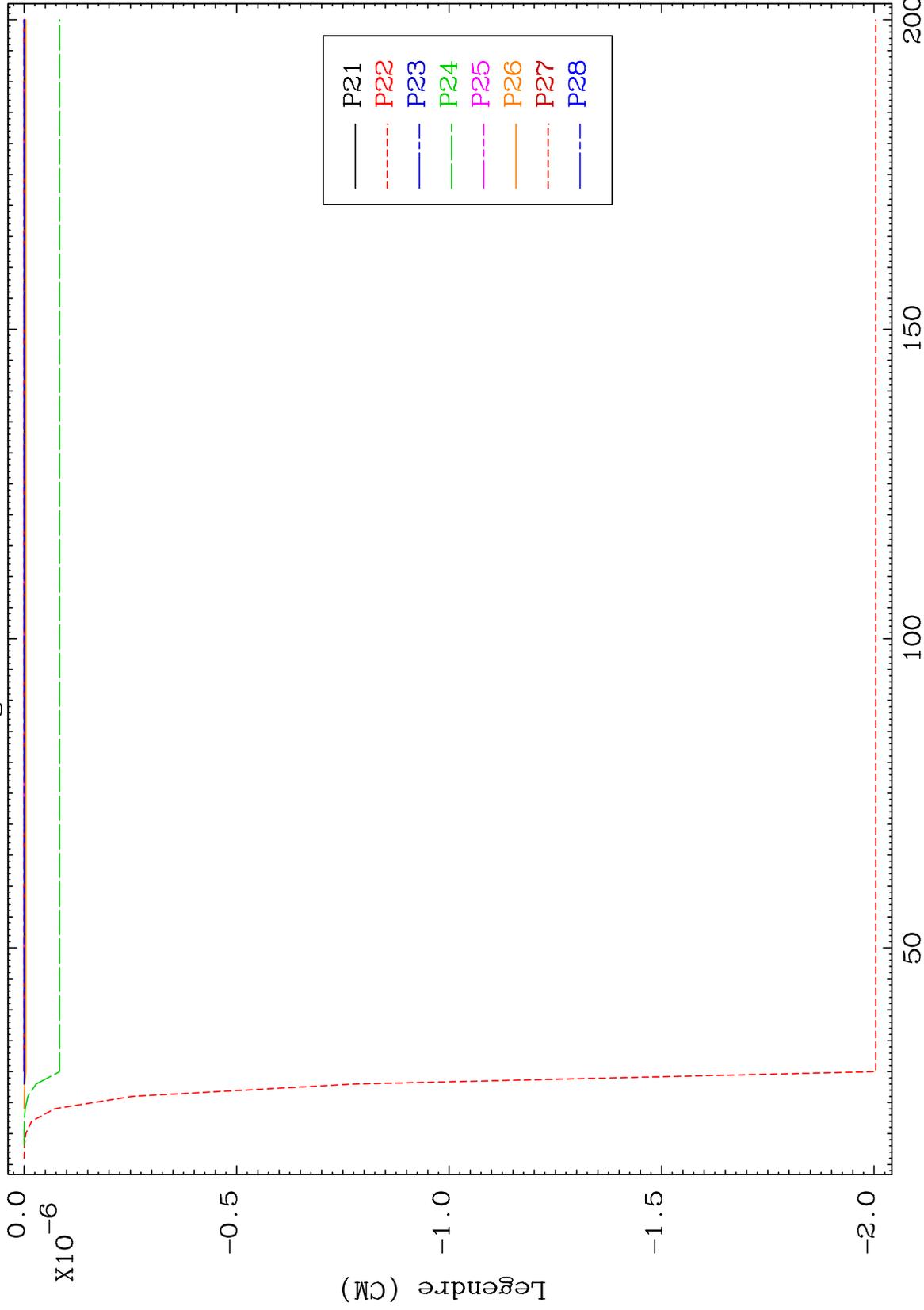
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



61

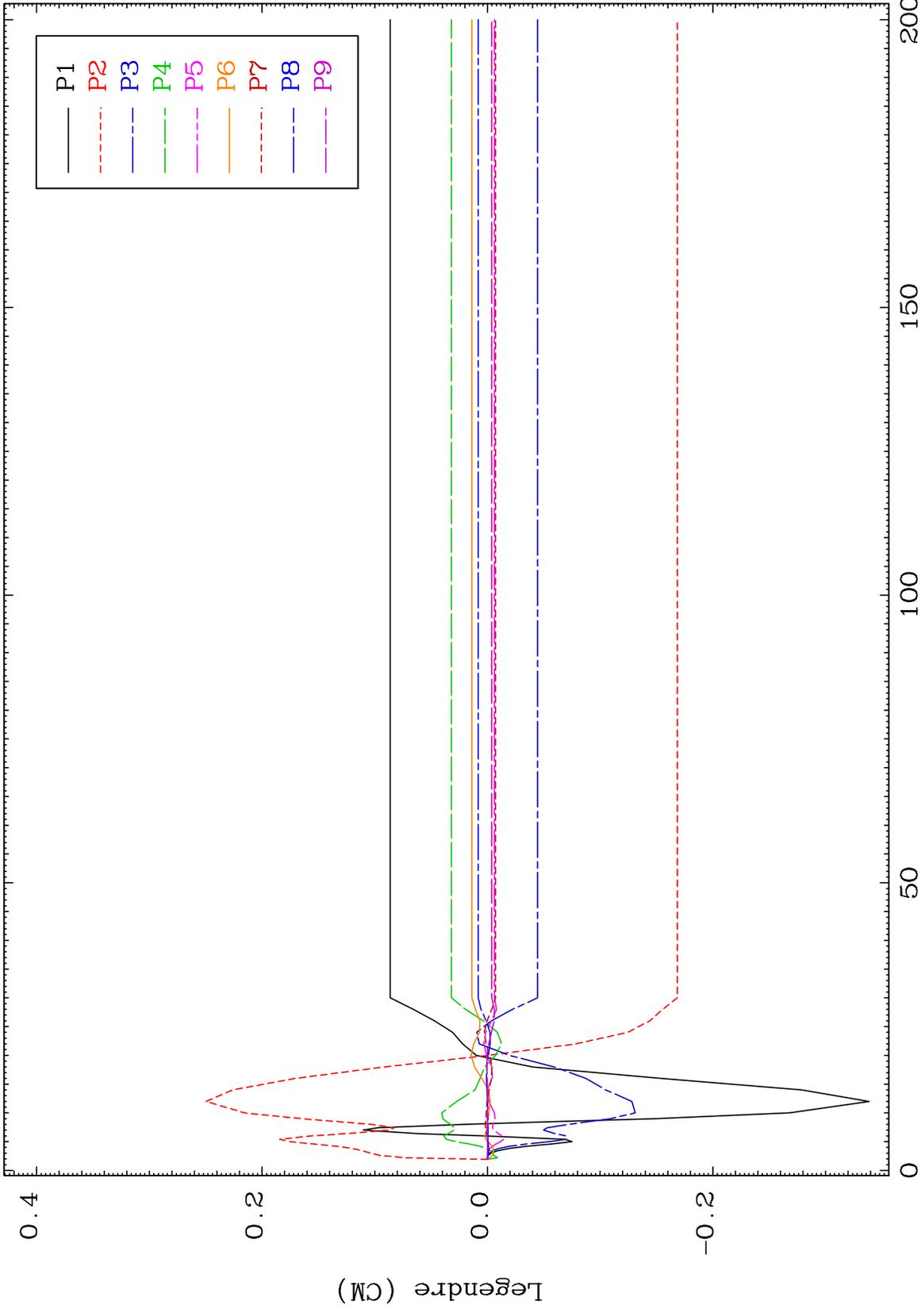
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



62

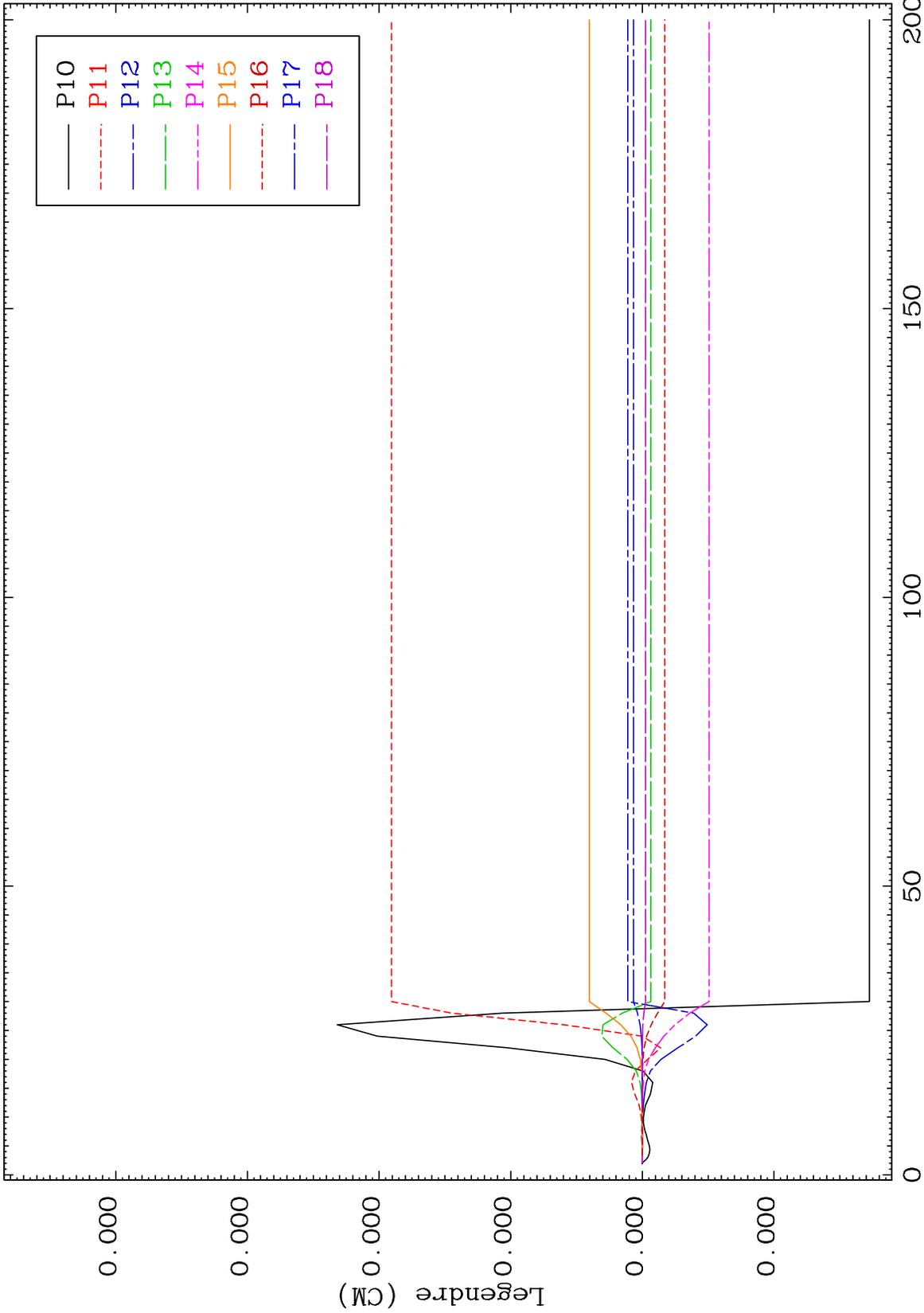
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



63

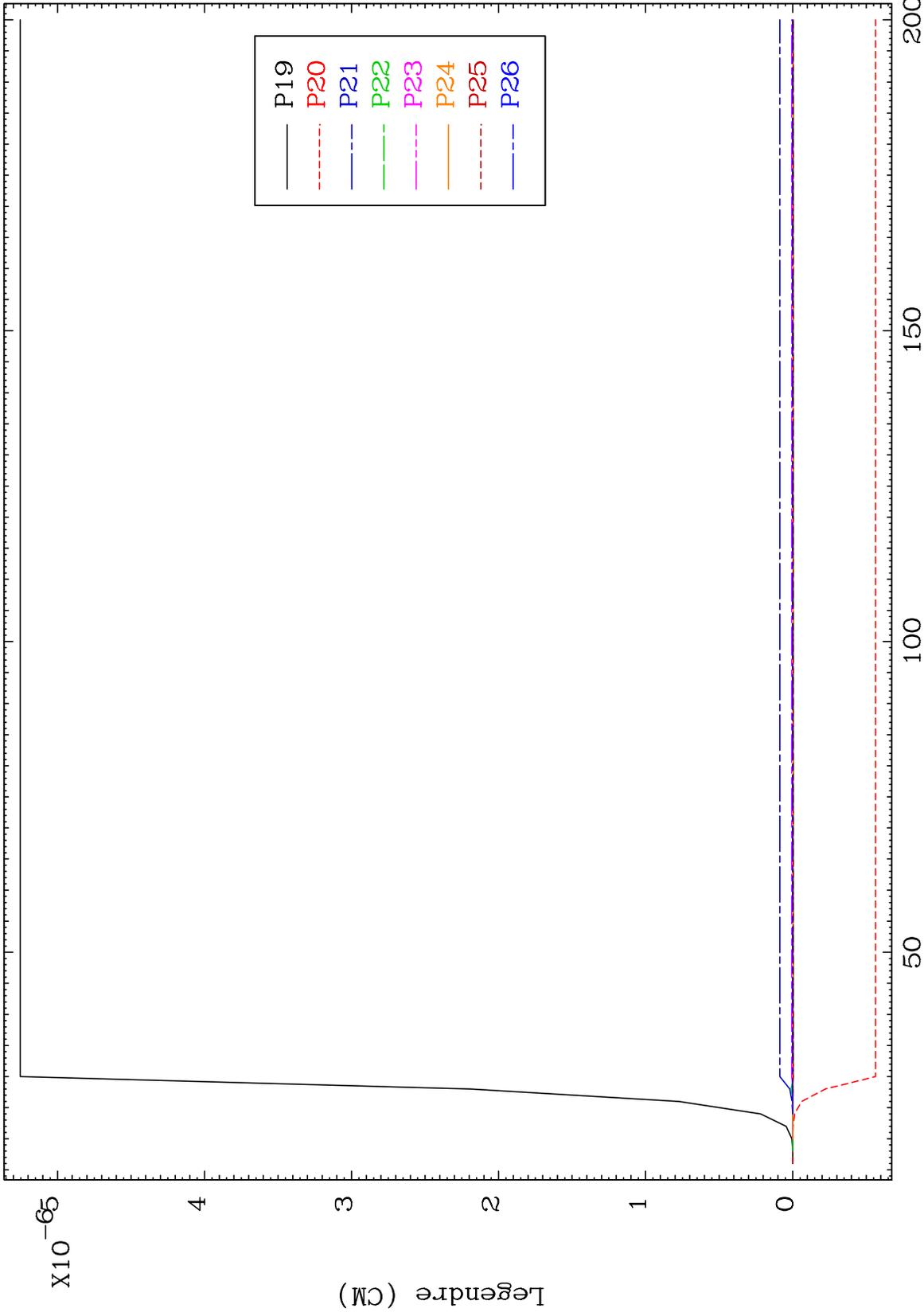
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



64

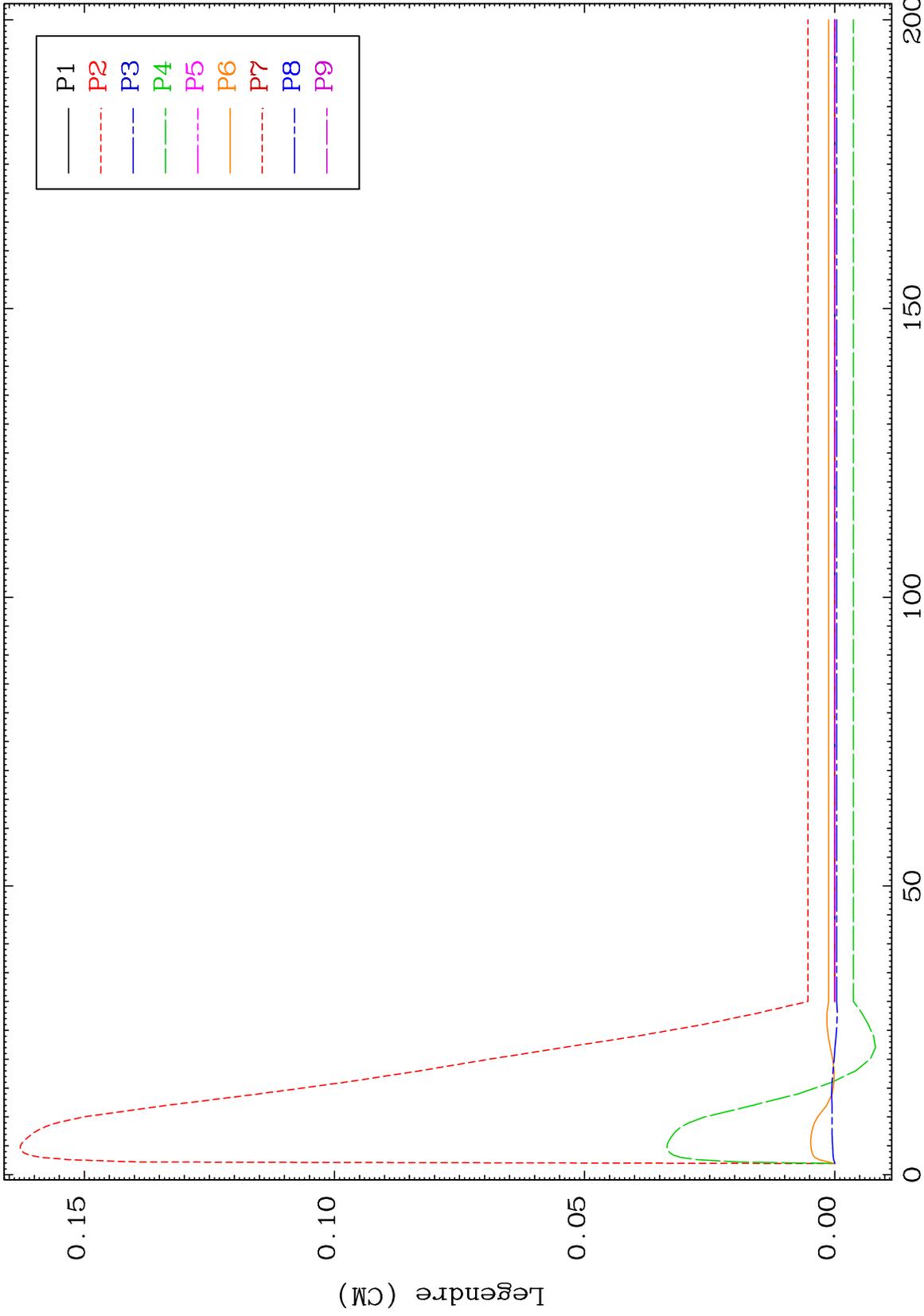
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



65

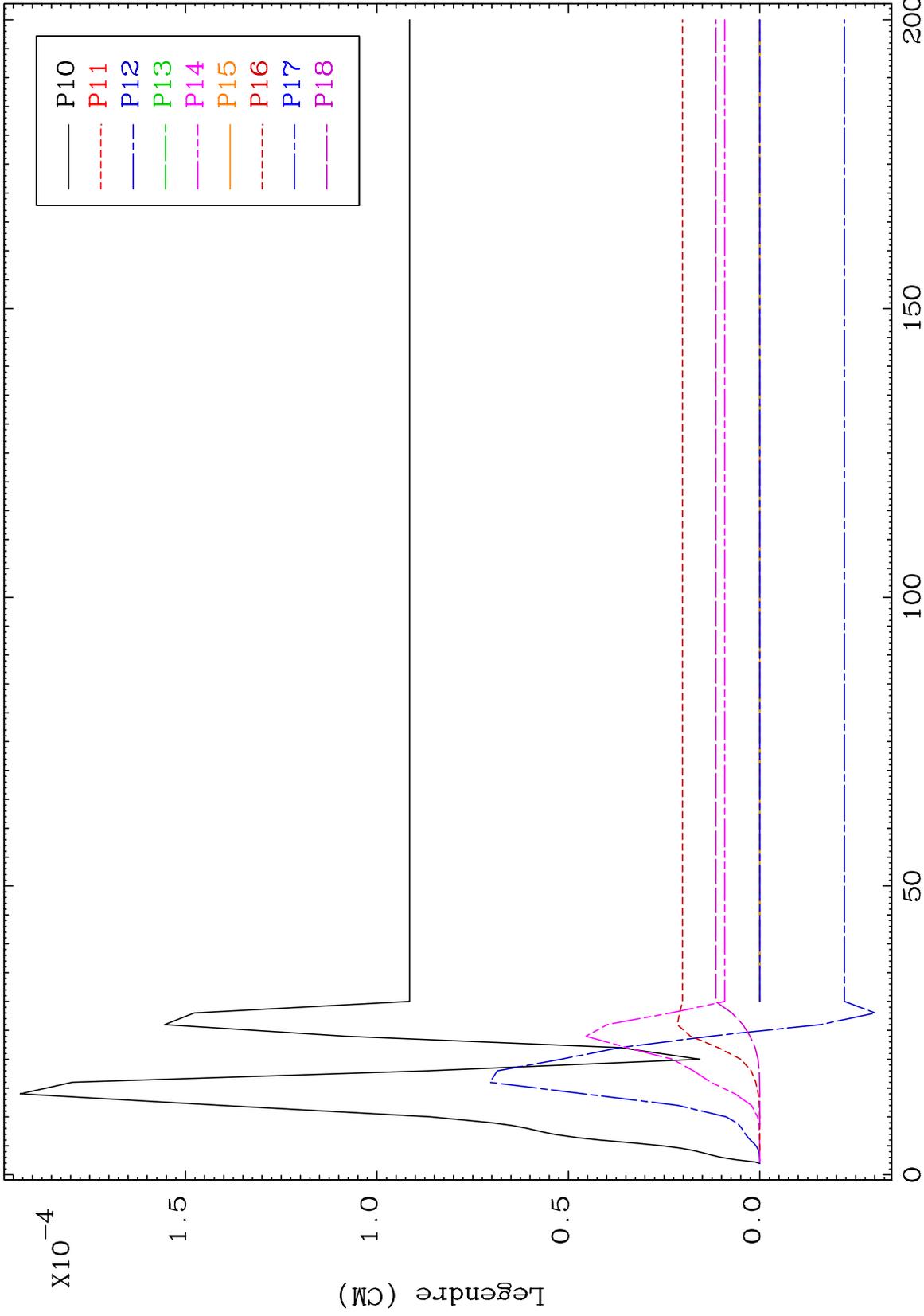
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



66

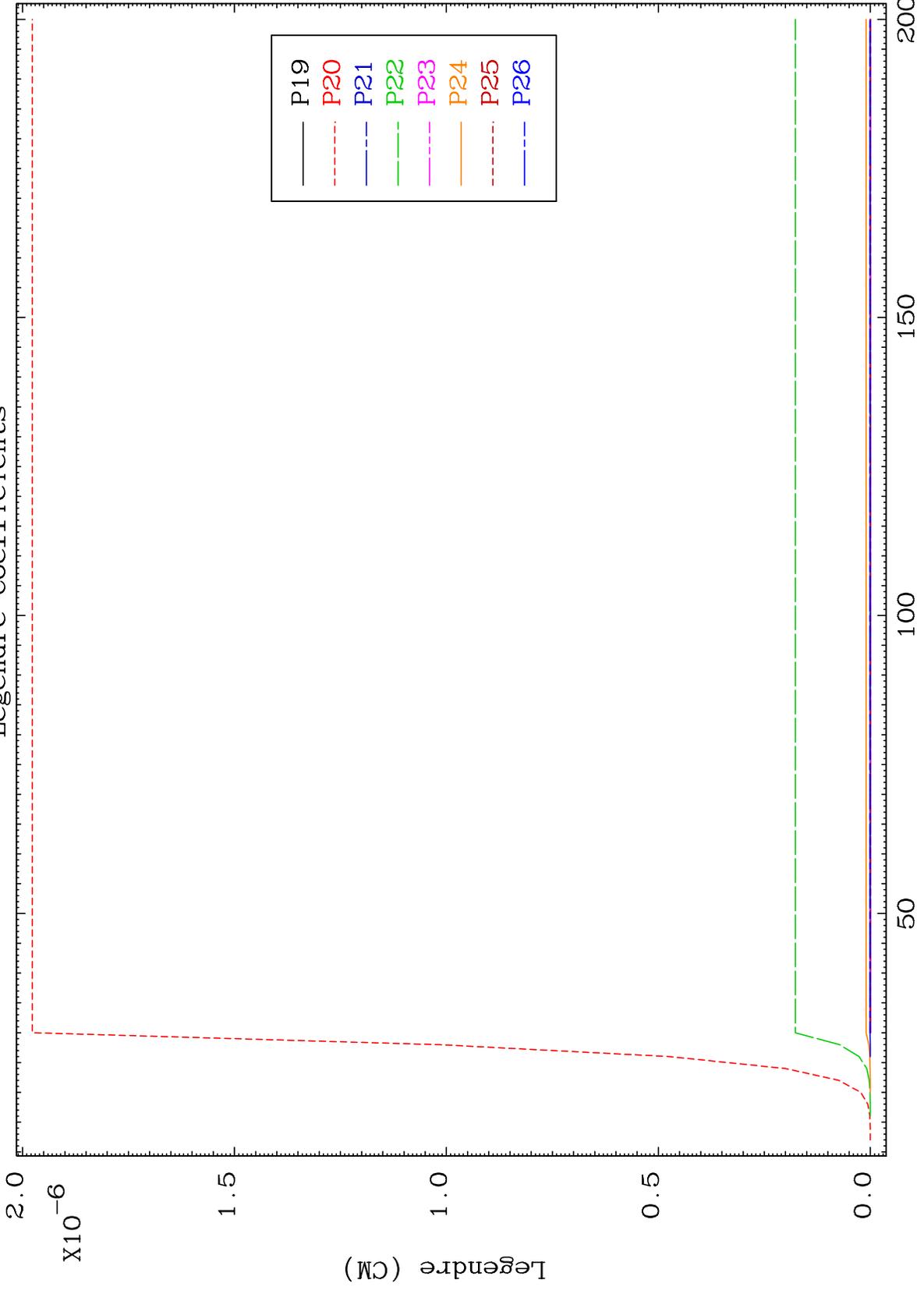
Incident Energy (MeV)

83-Bi-212

83-Bi-212

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

MAT 8334



83-Bi-212

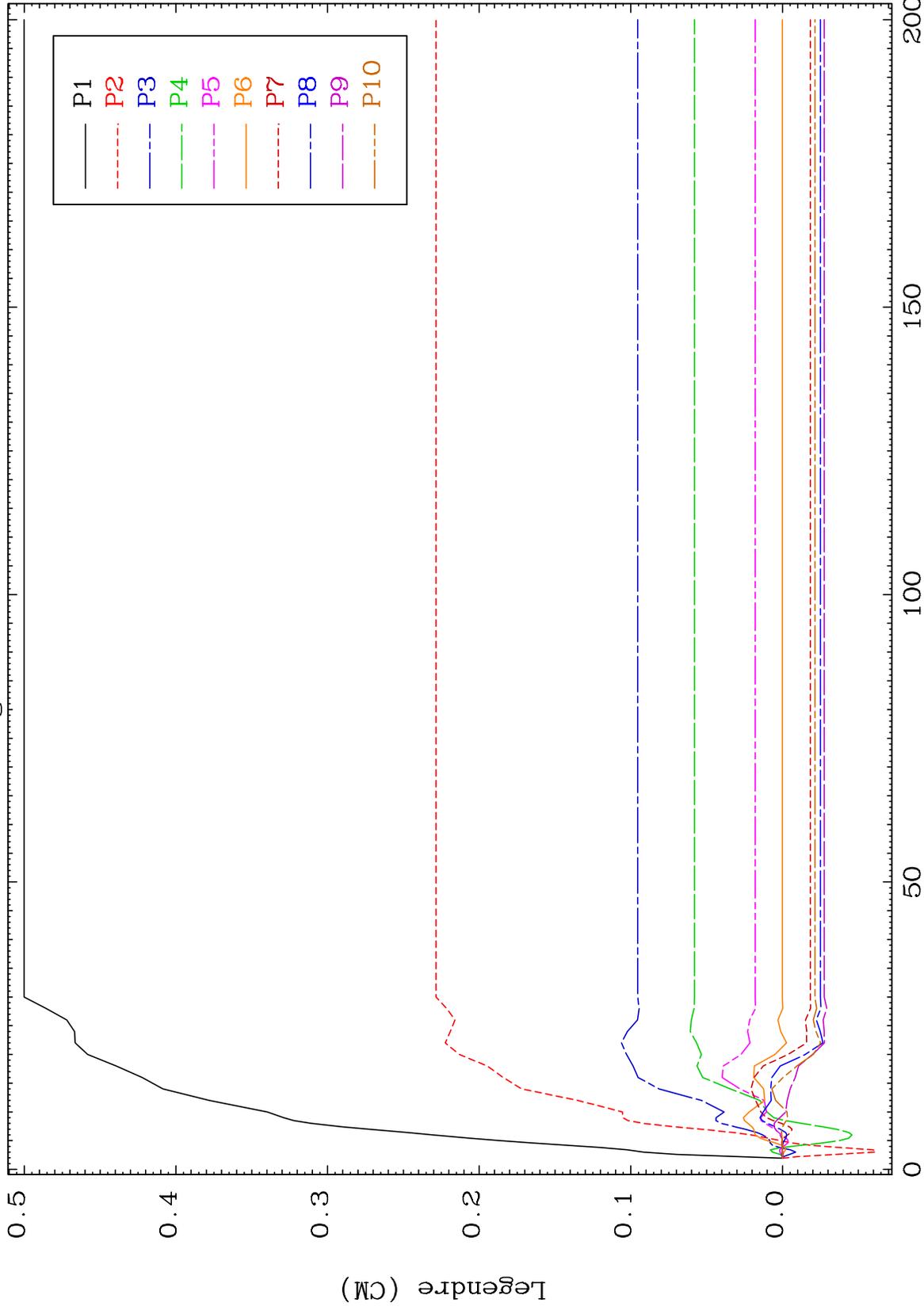
Incident Energy (MeV)

67

MAT 8334

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

83-Bi-212



68

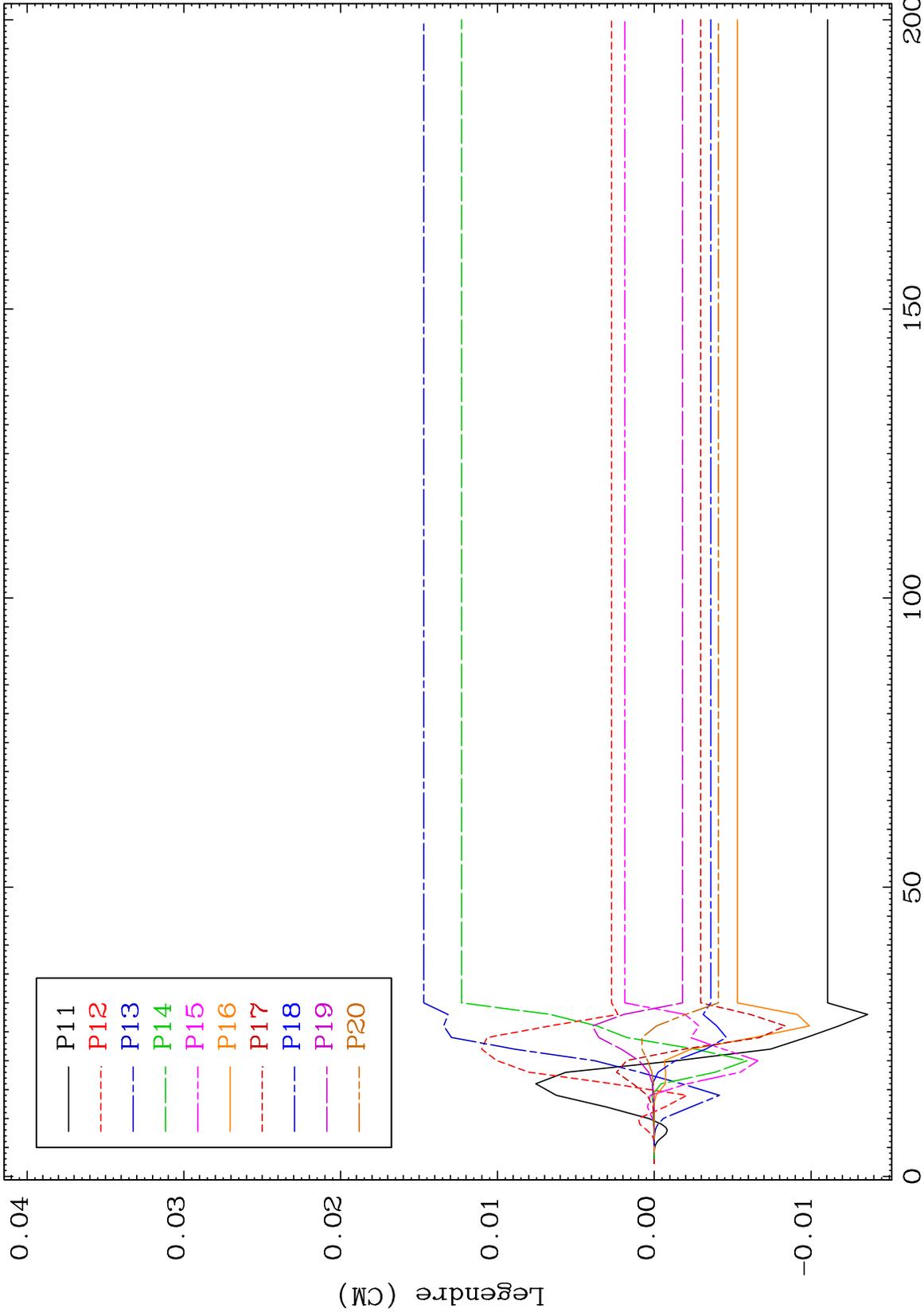
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



69

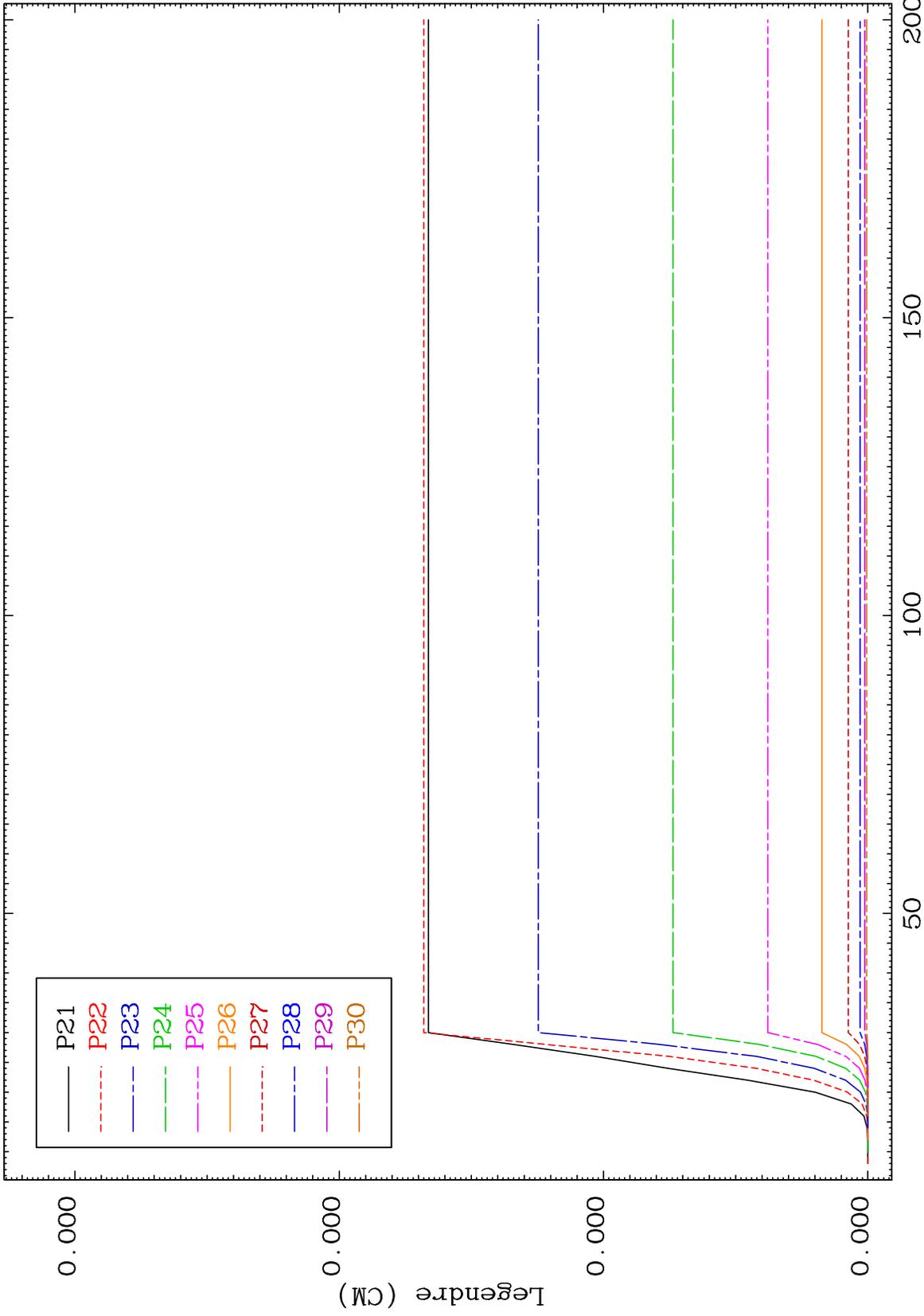
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



70

Incident Energy (MeV)

50

100

150

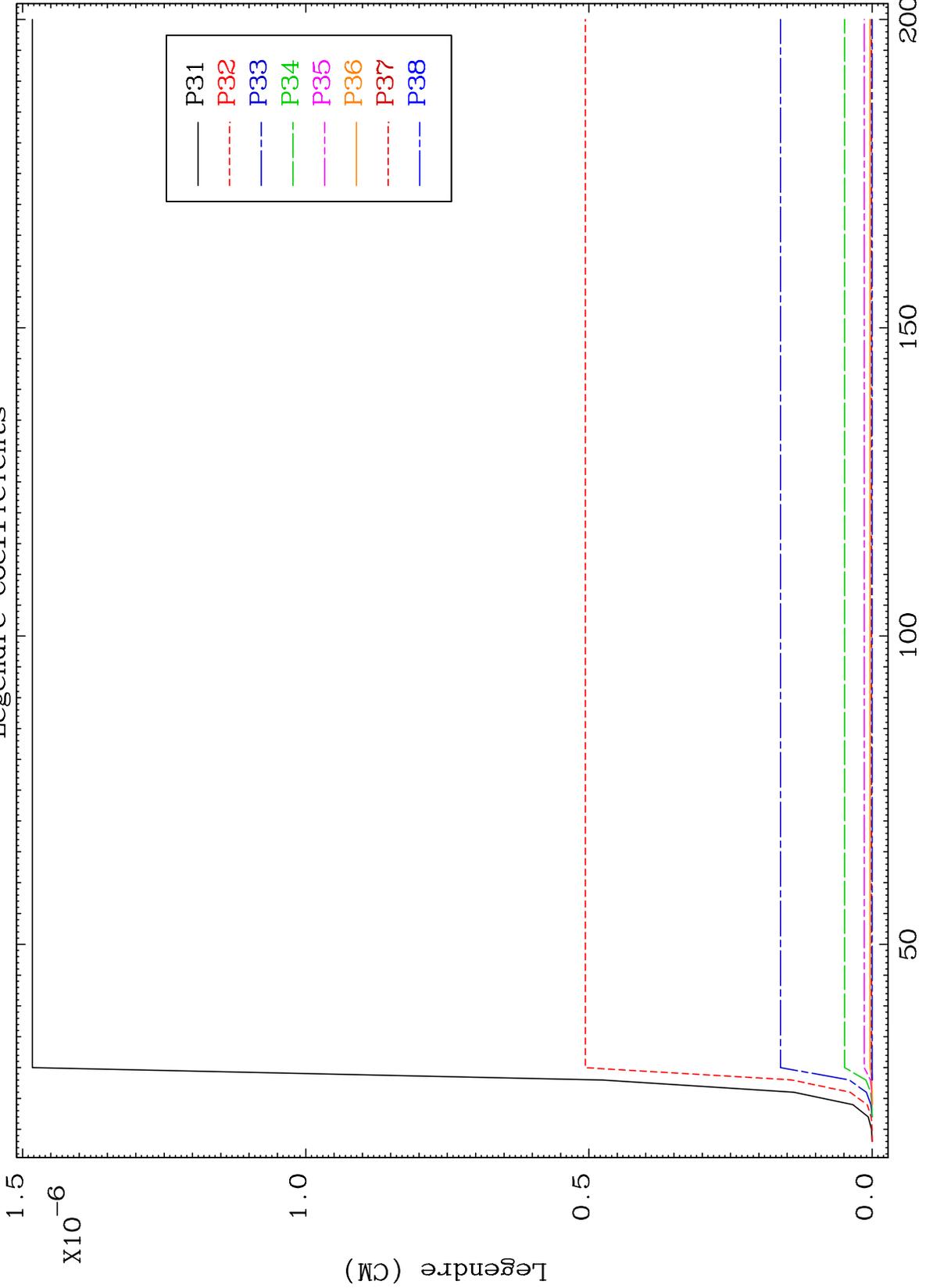
200

83-Bi-212

MAT 8334

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

83-Bi-212



71

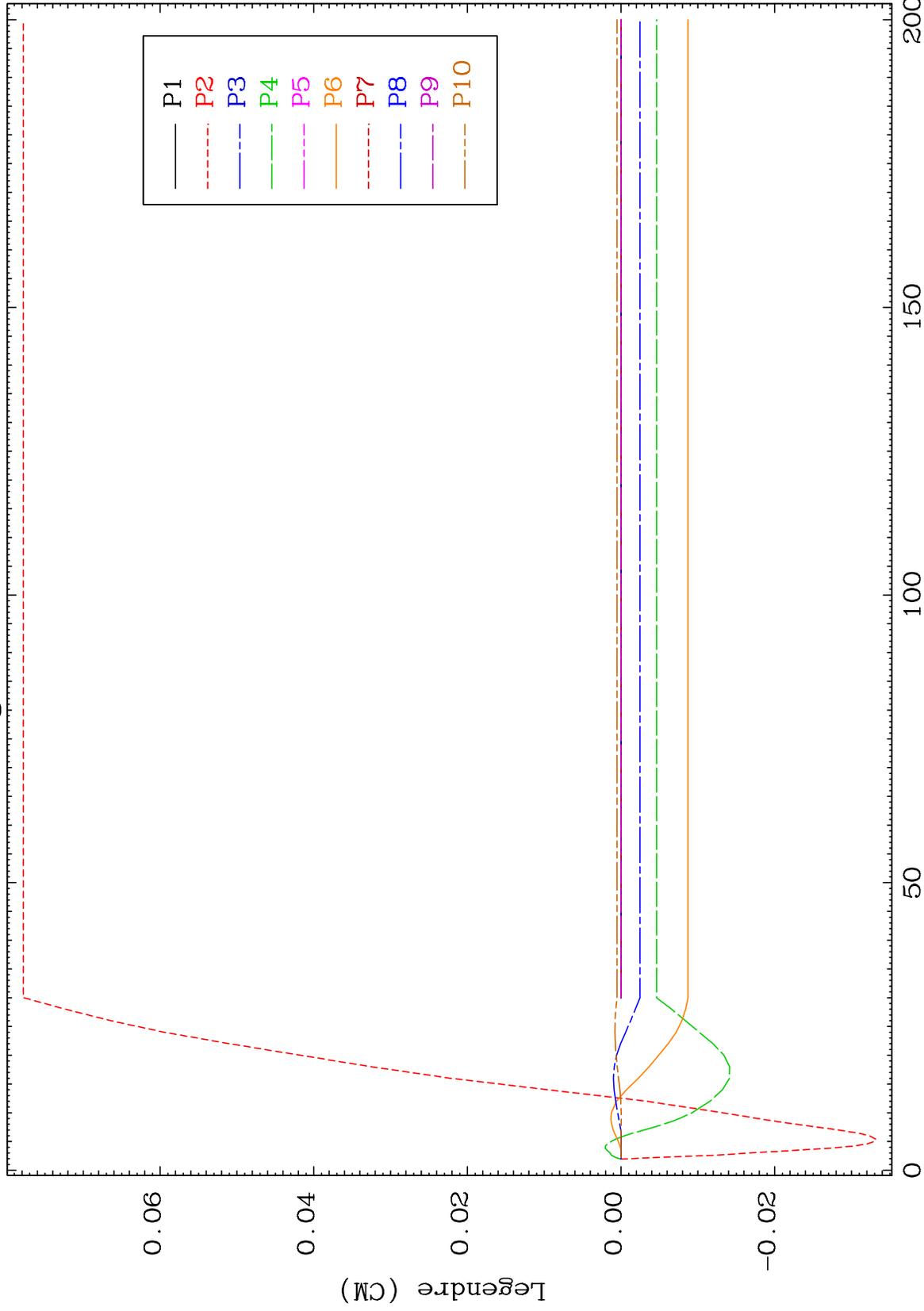
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



72

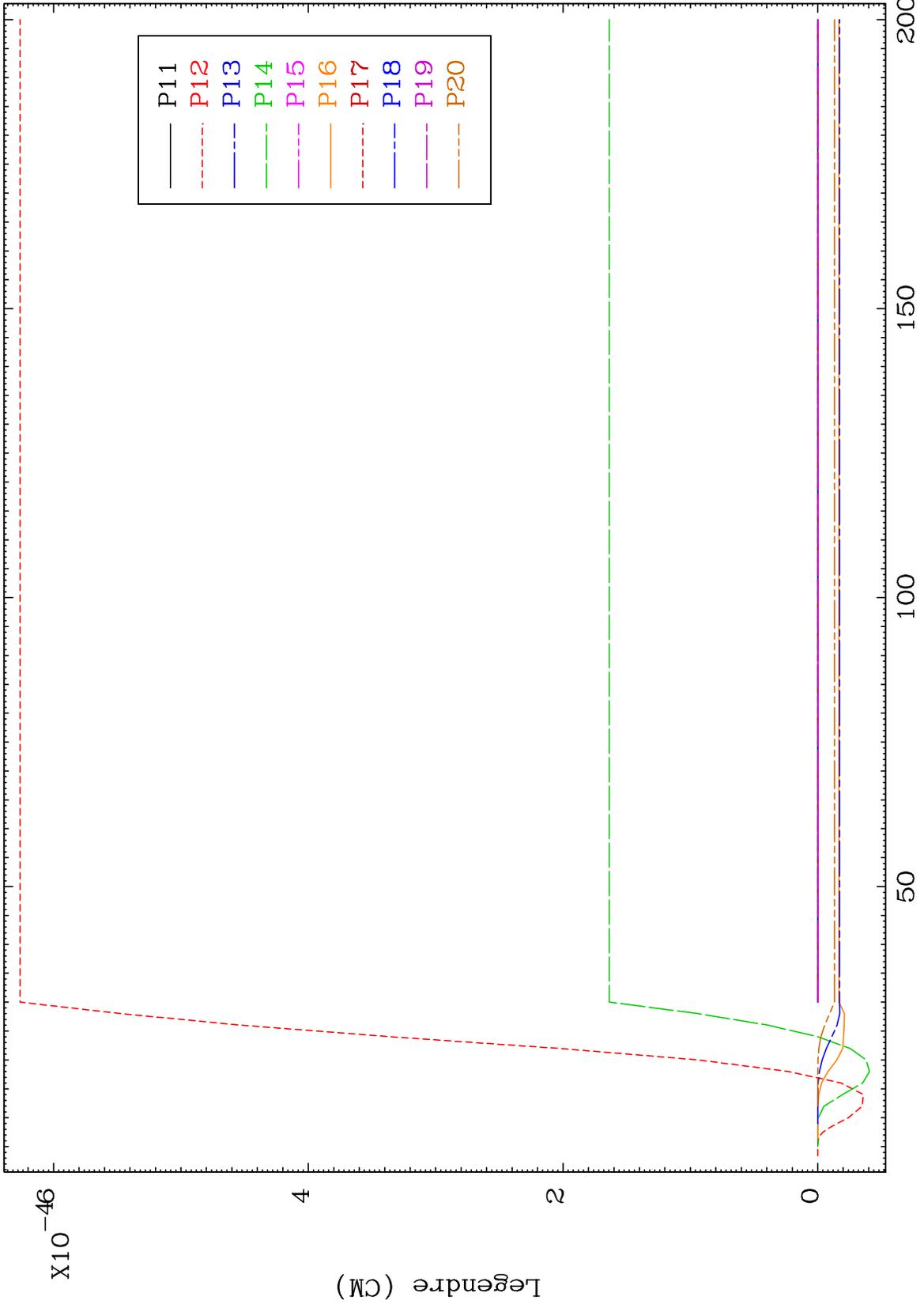
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



73

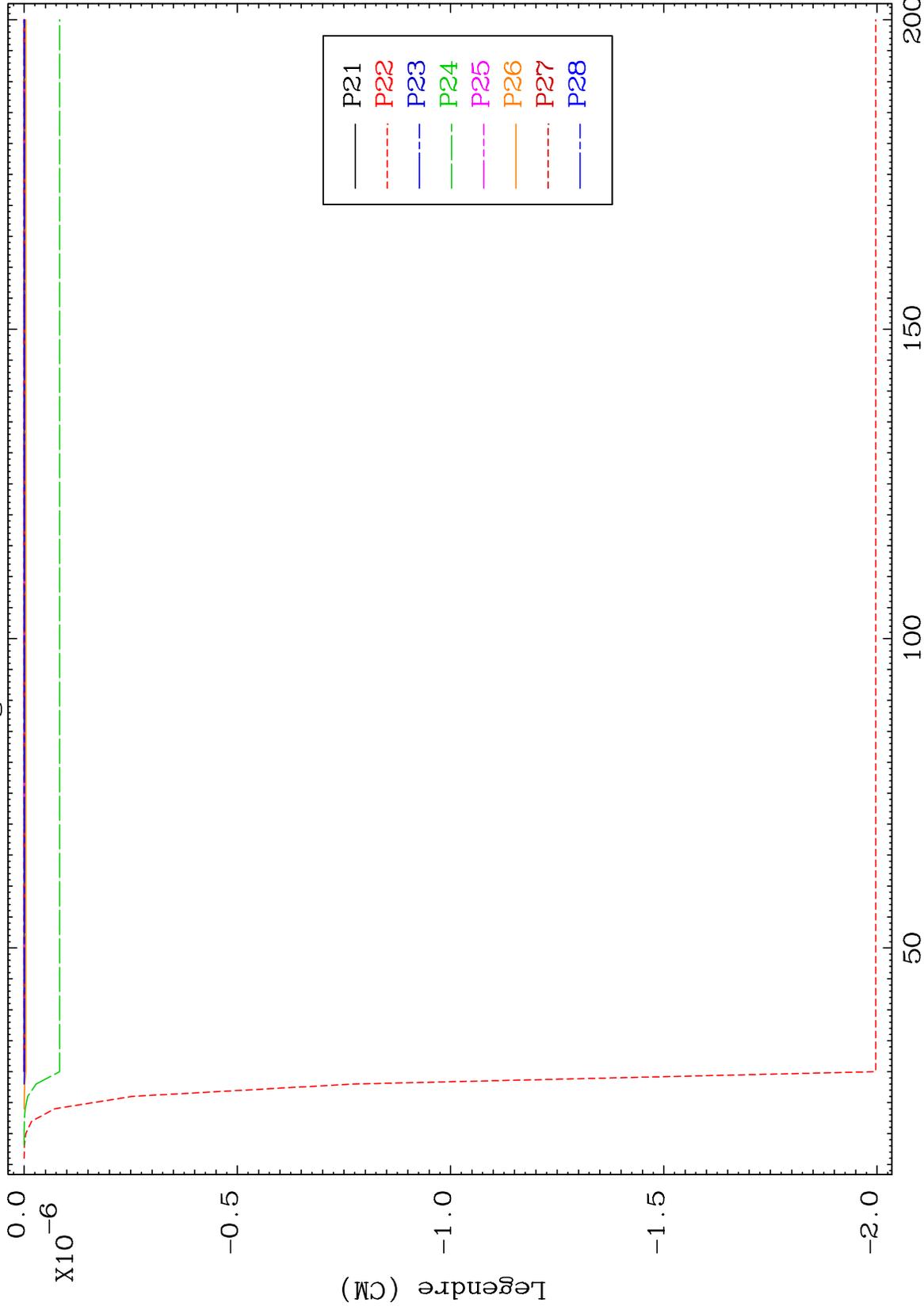
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



74

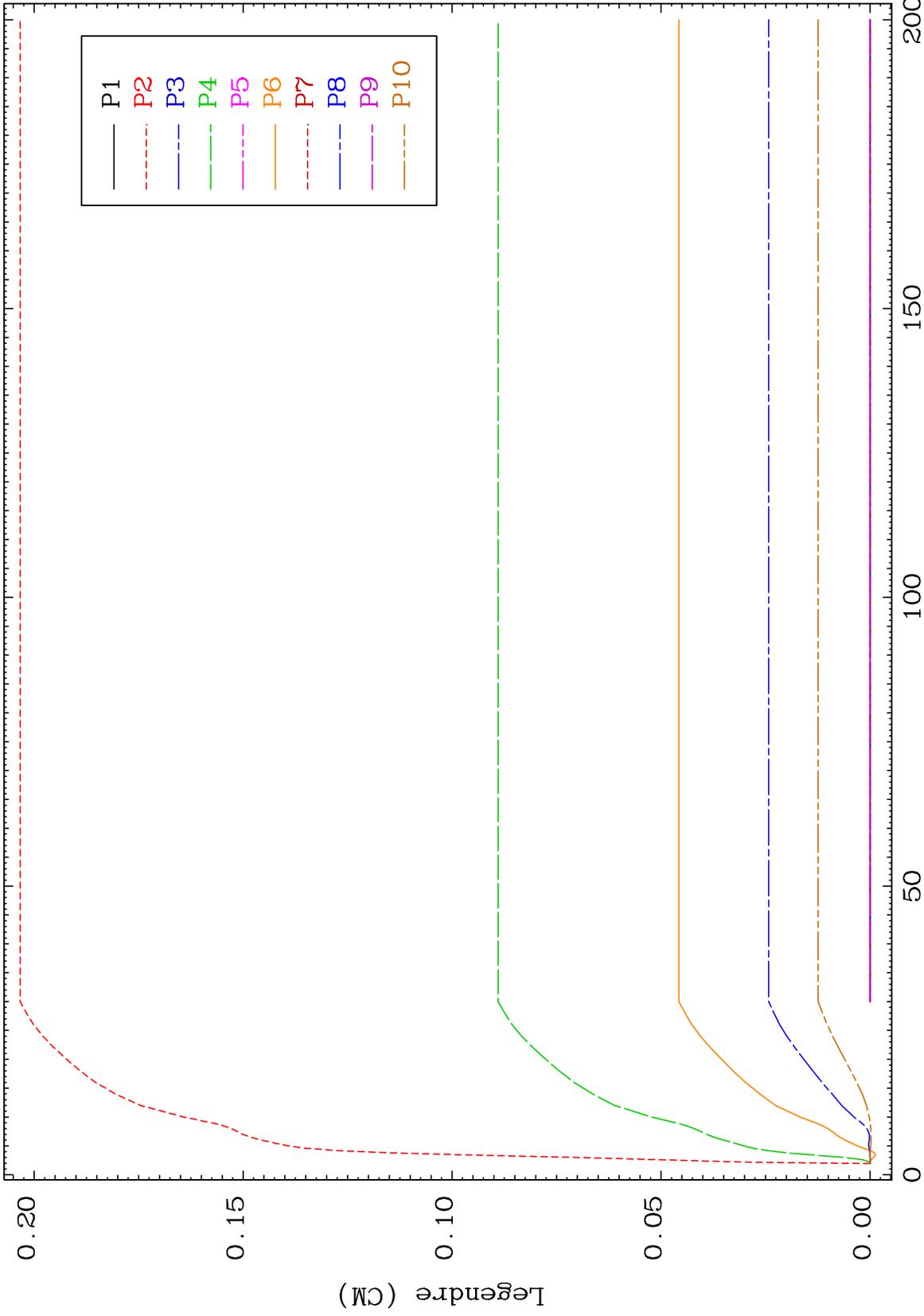
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



75

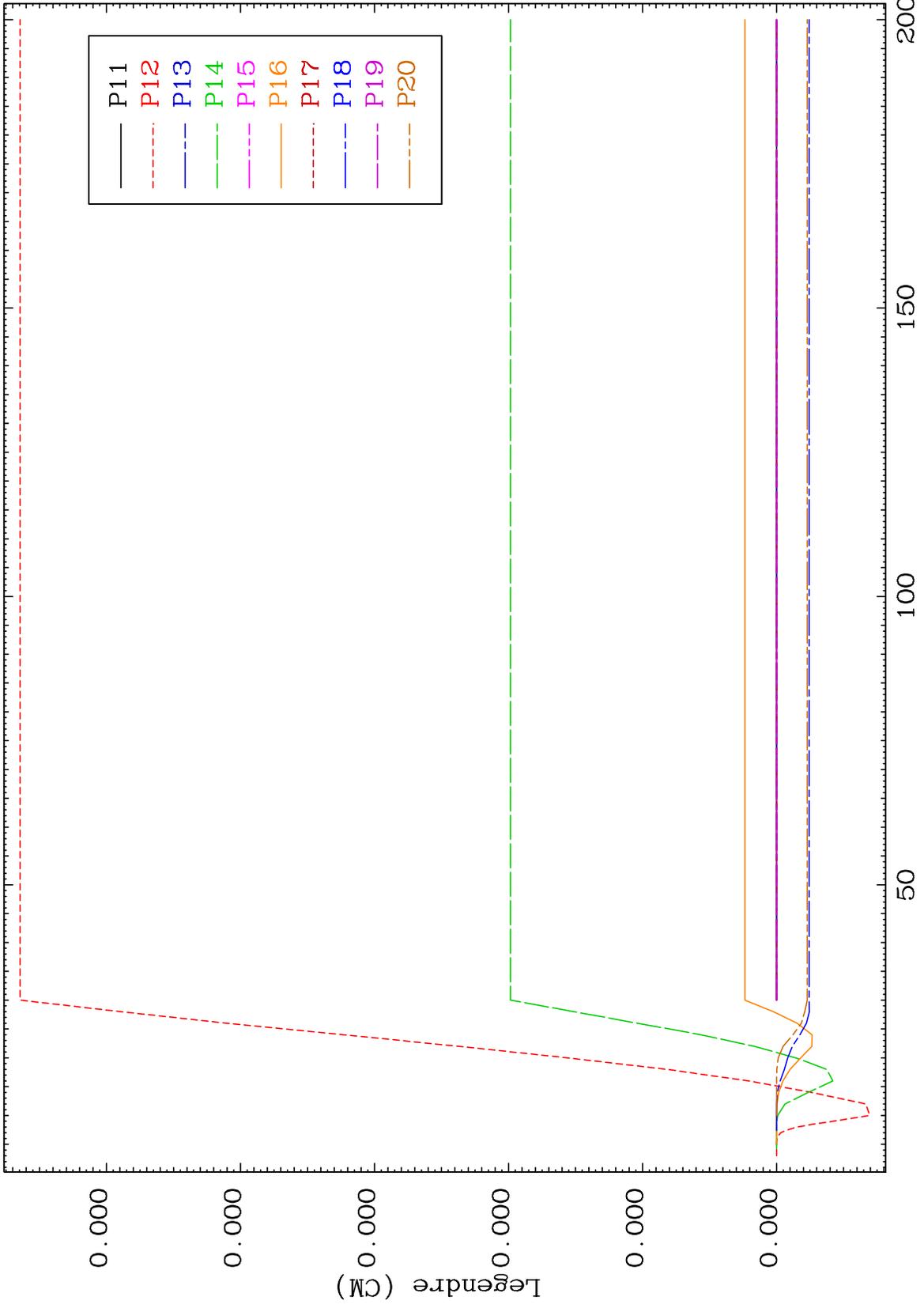
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



76

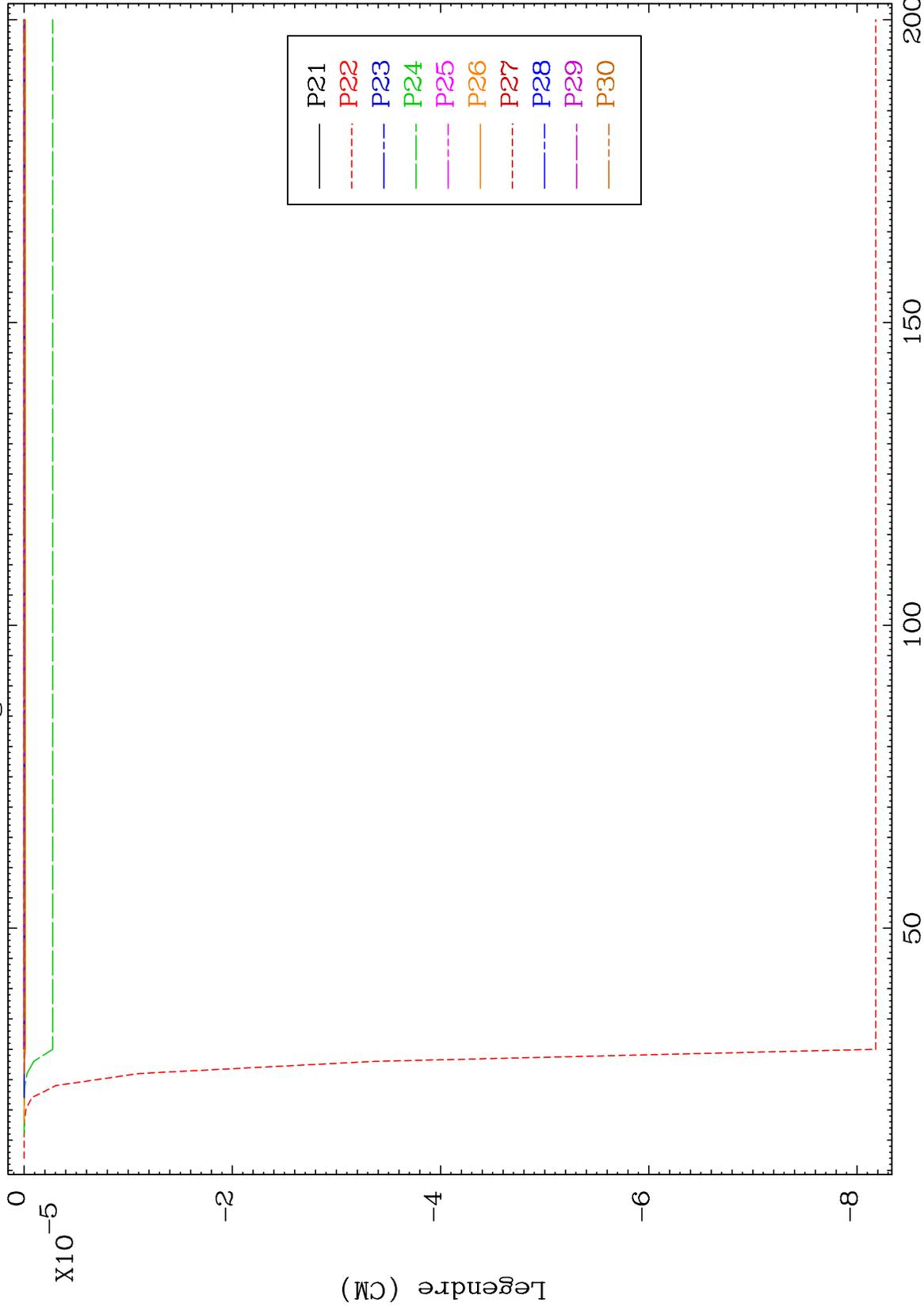
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



77

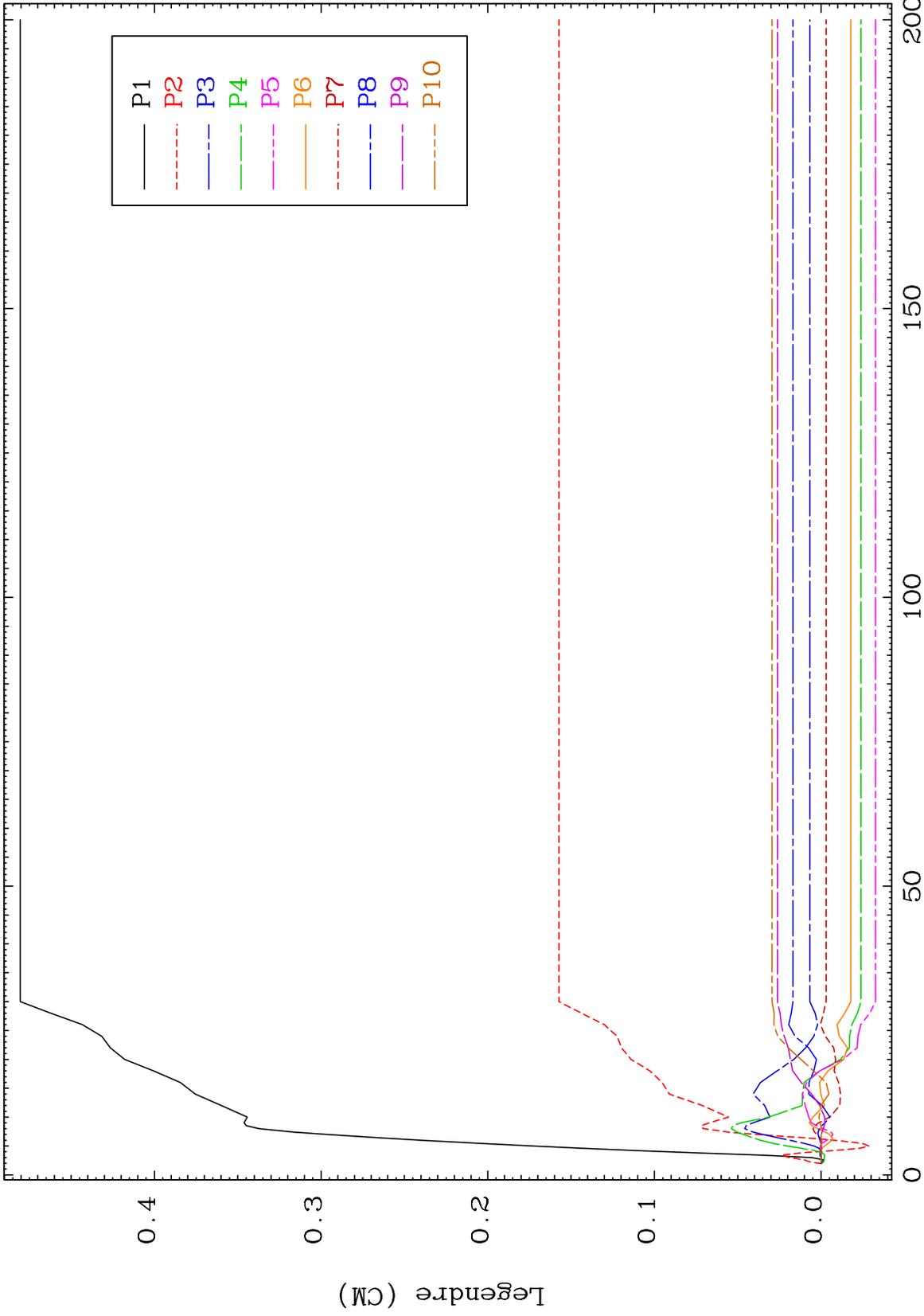
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



78

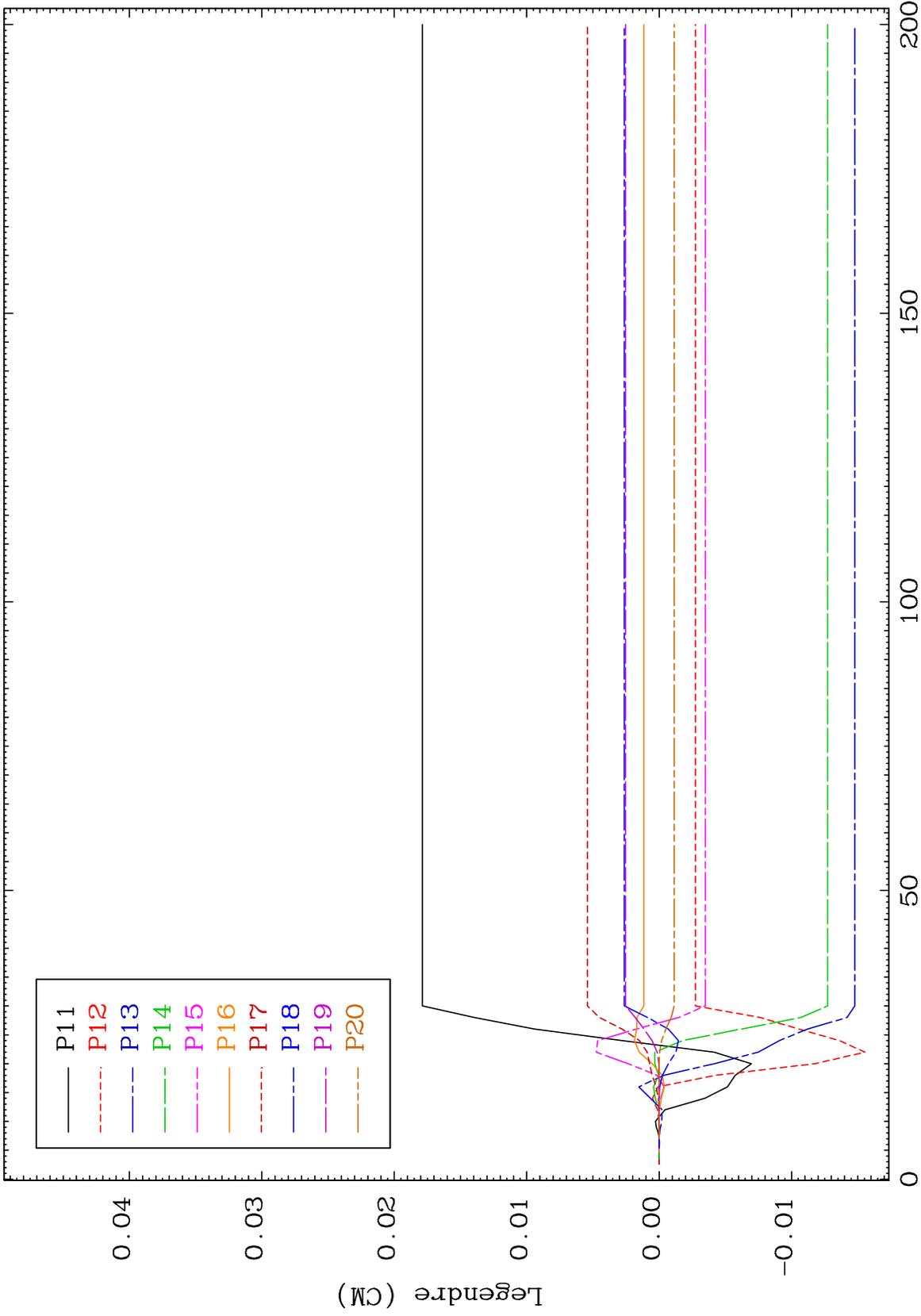
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



79

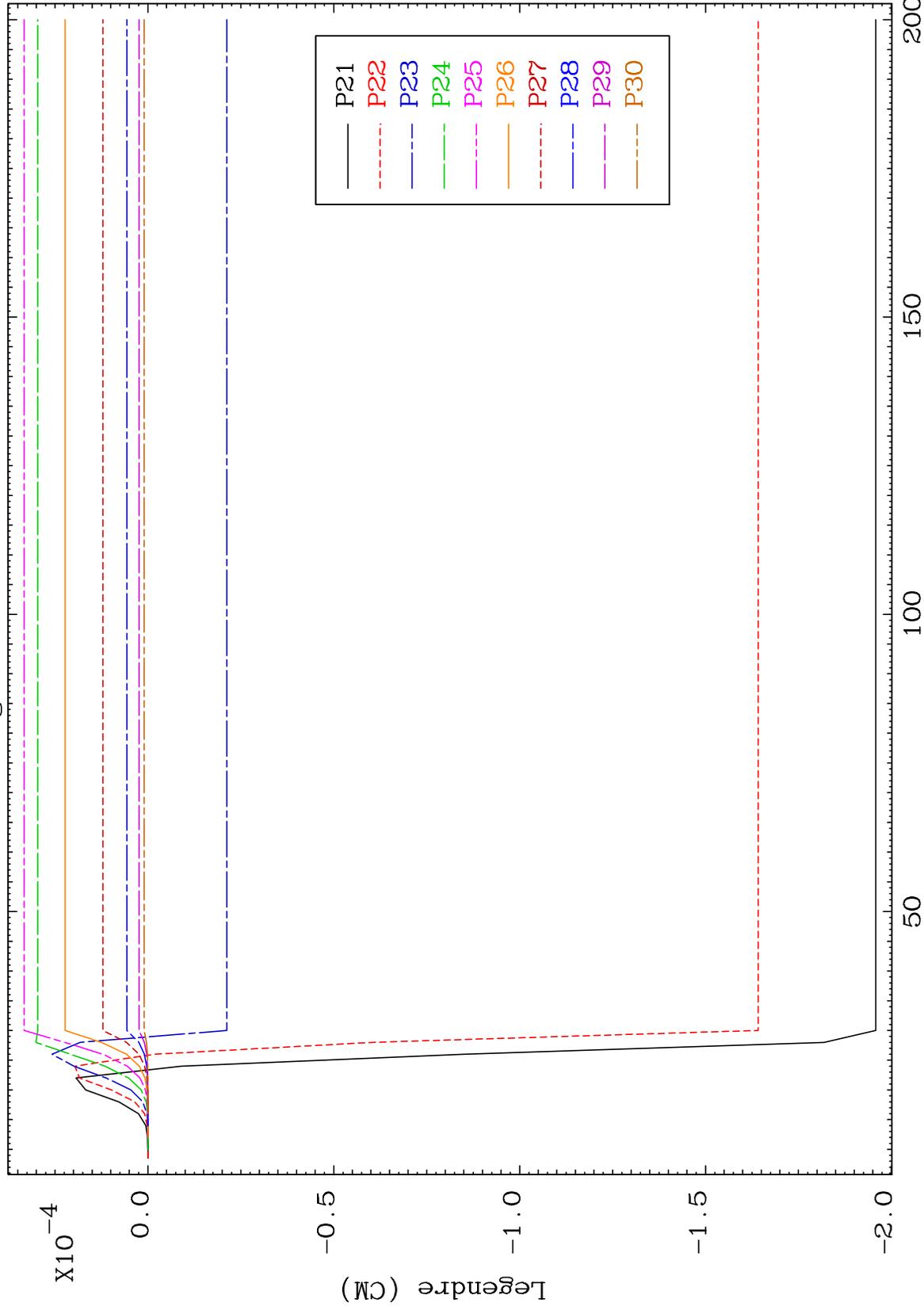
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



80

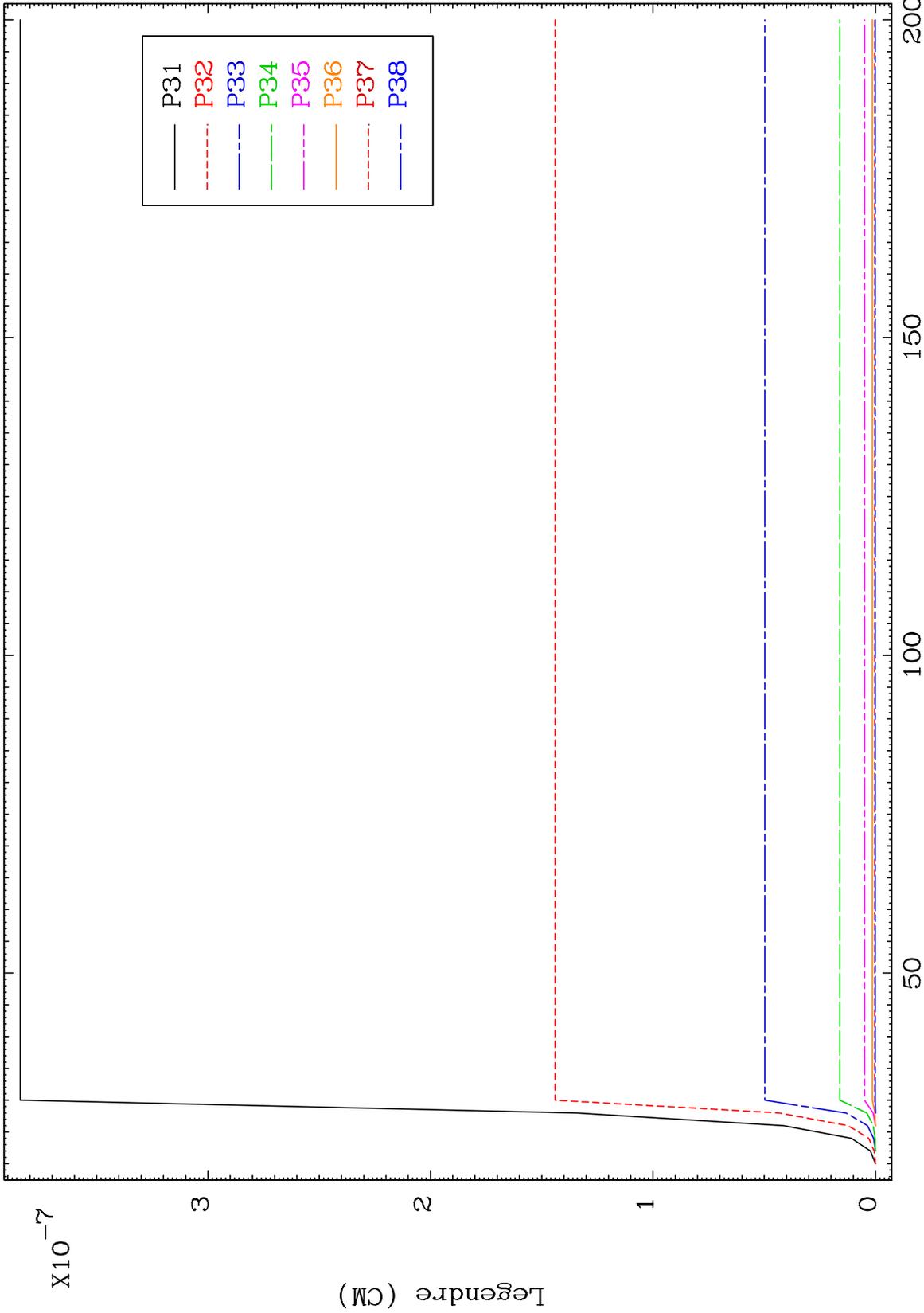
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



81

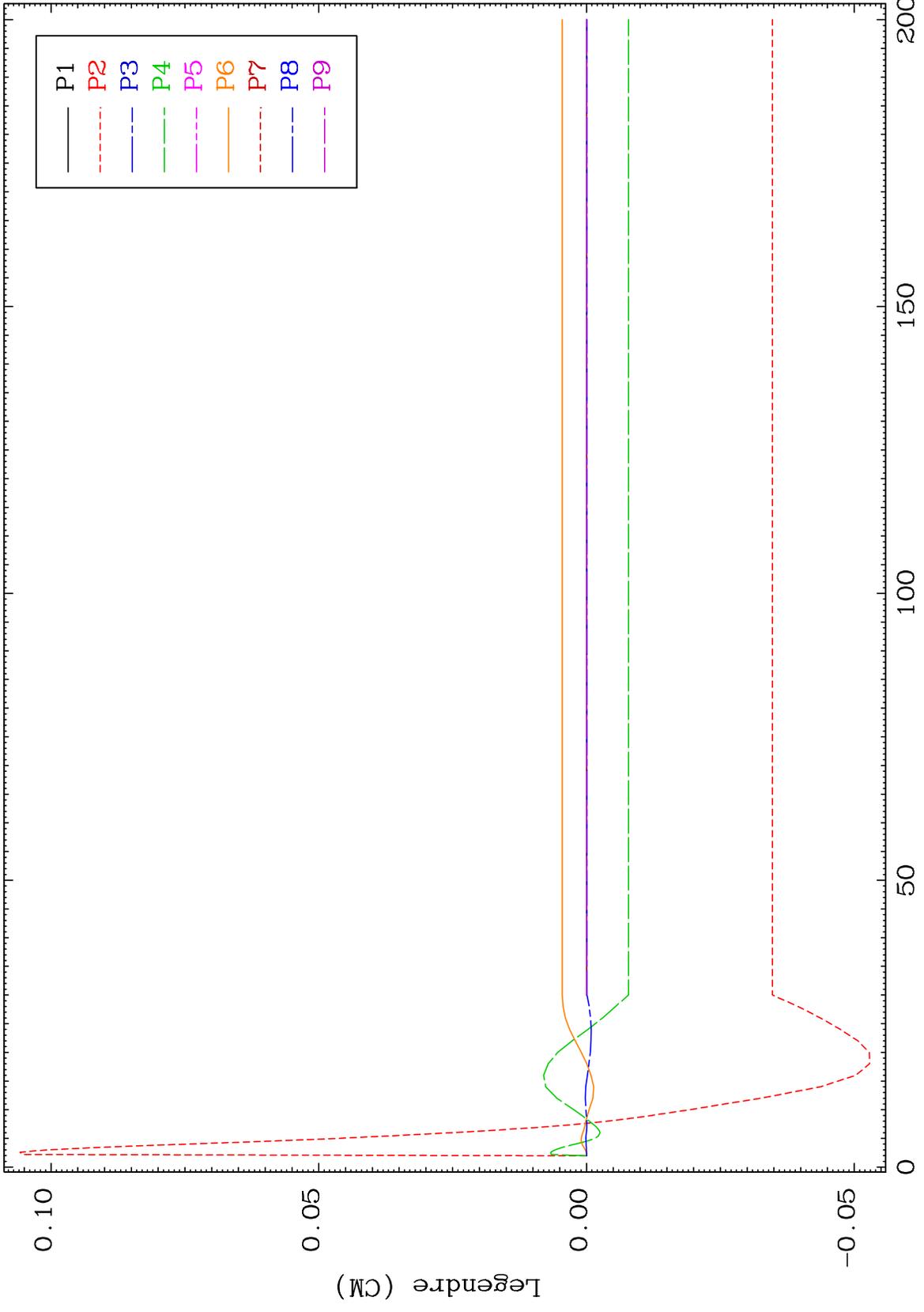
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



82

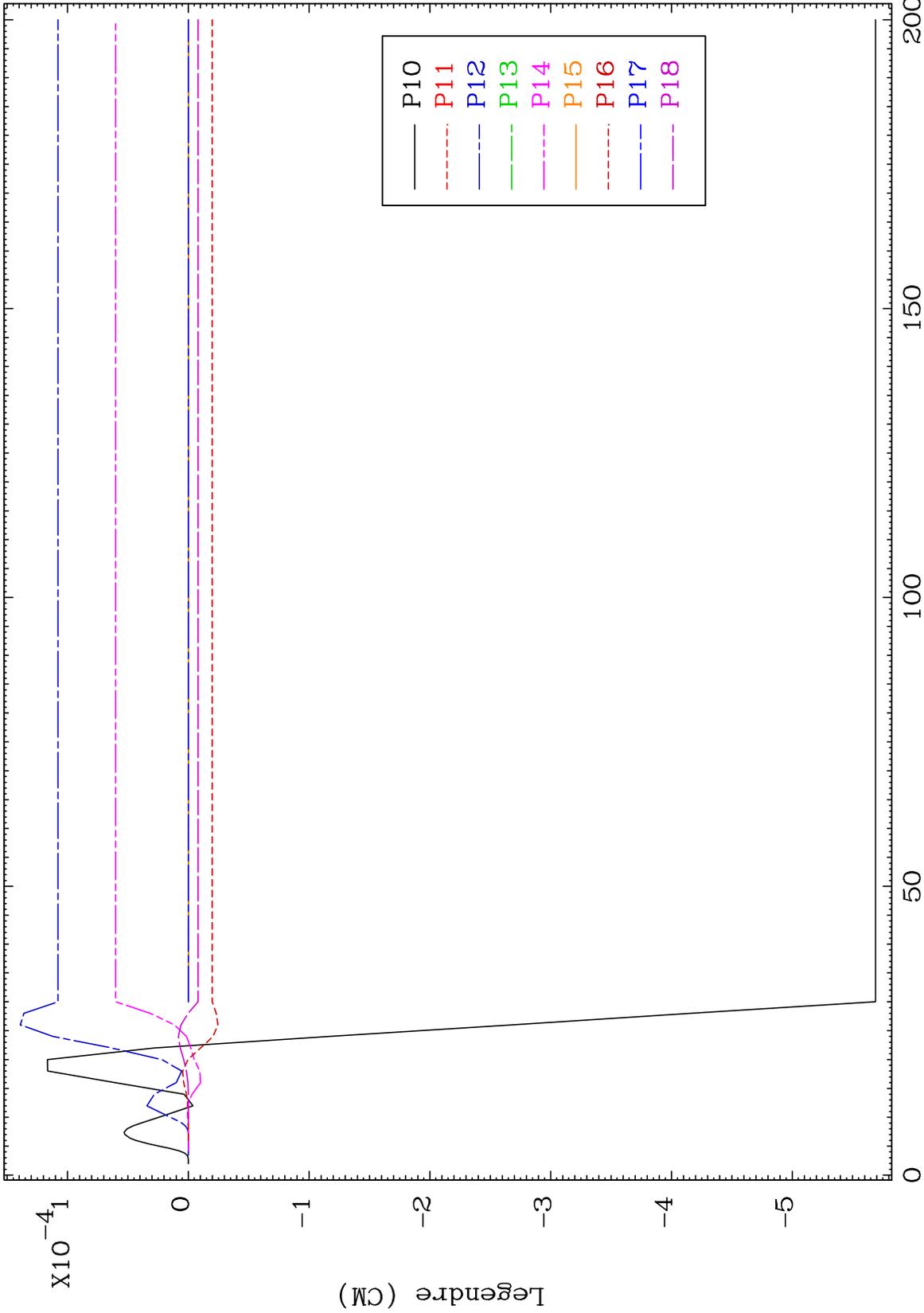
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



83

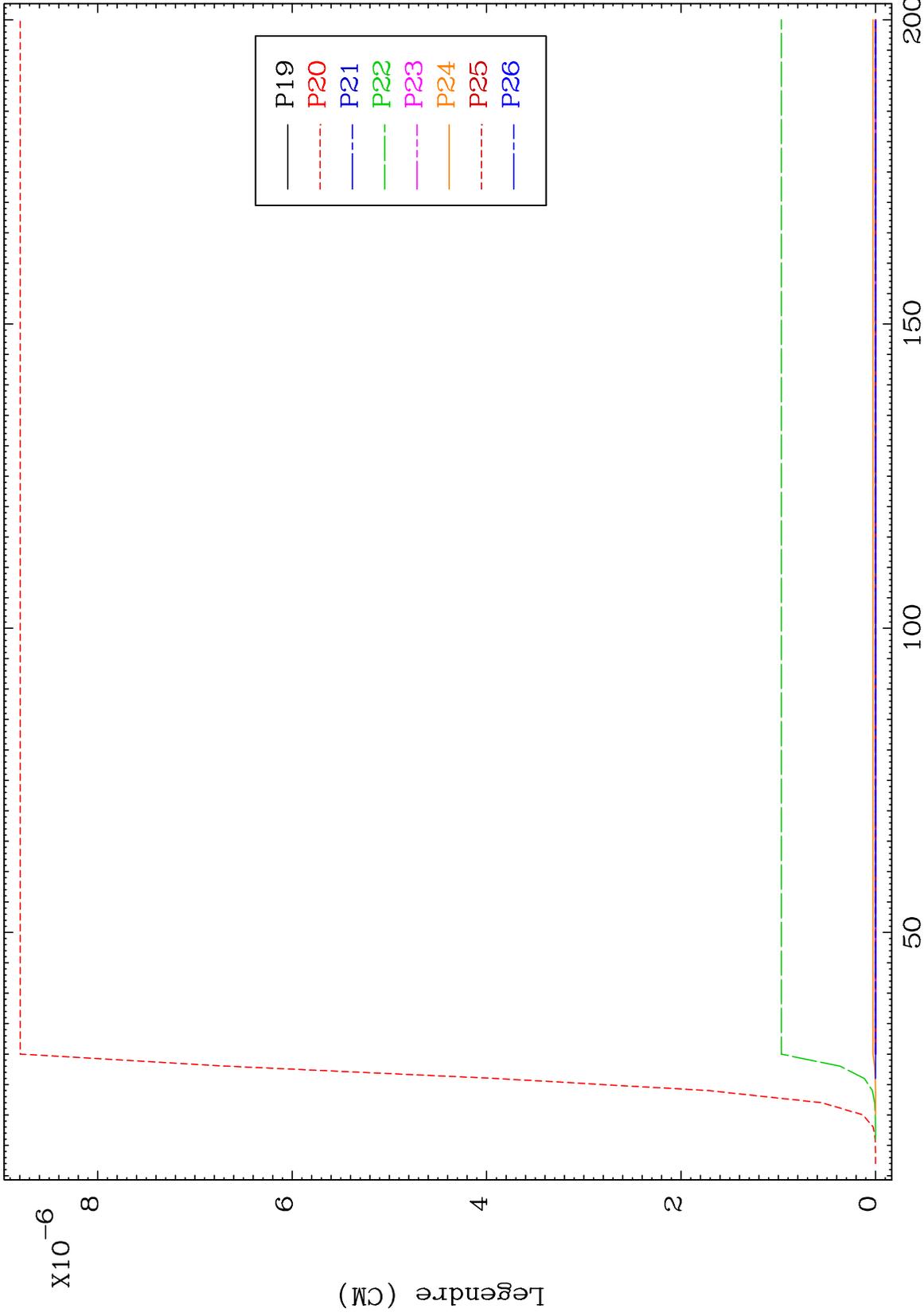
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



84

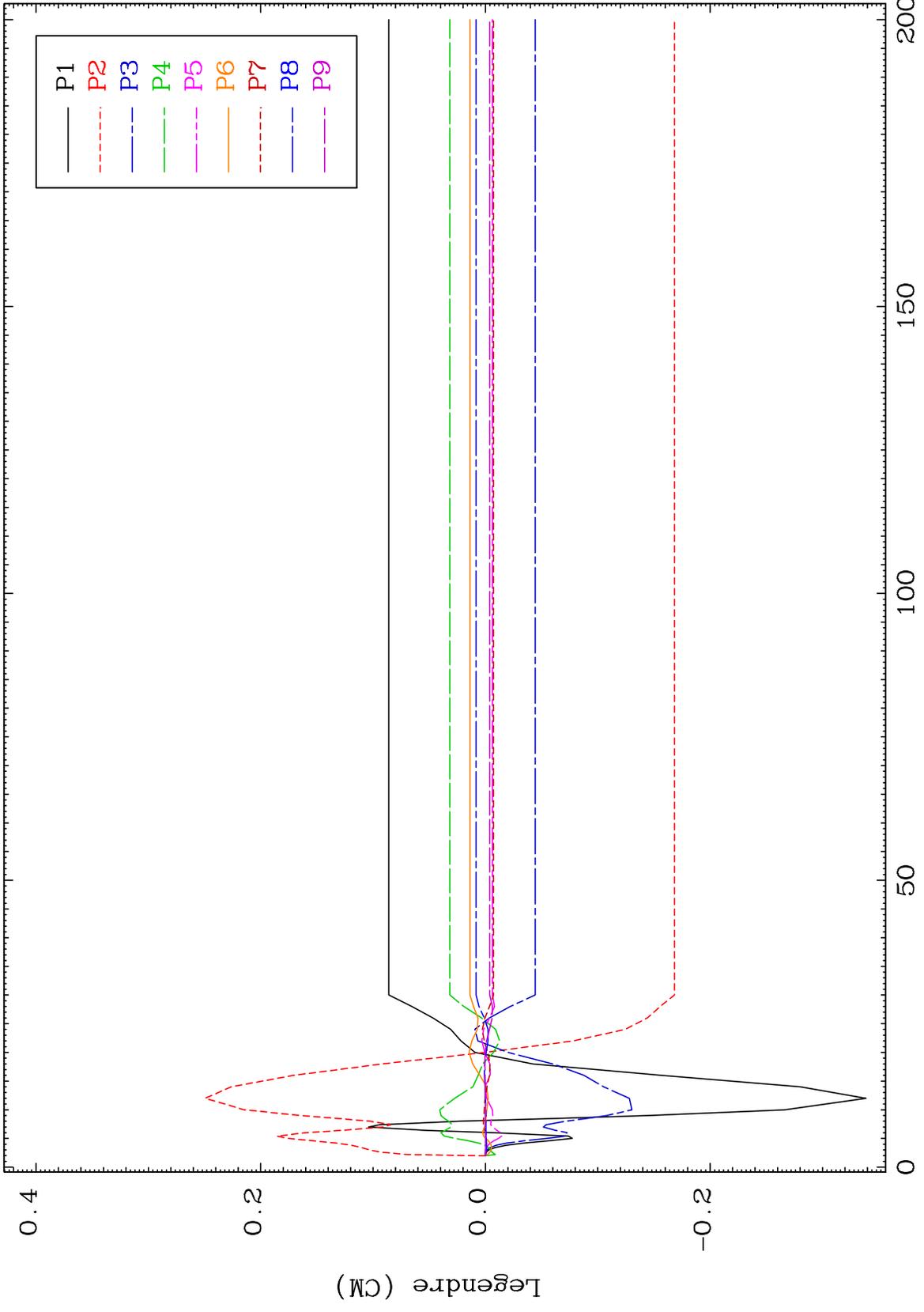
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



85

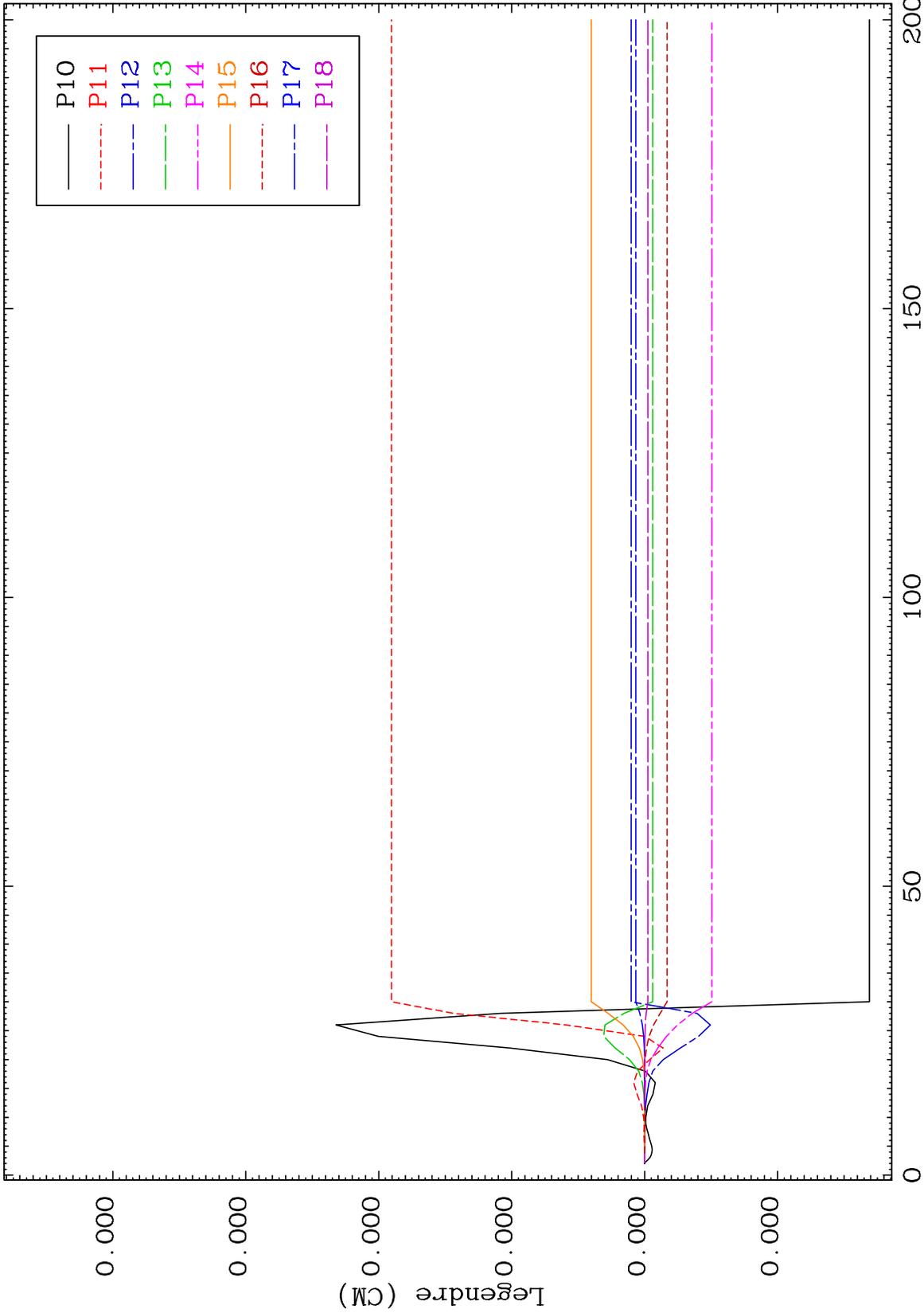
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



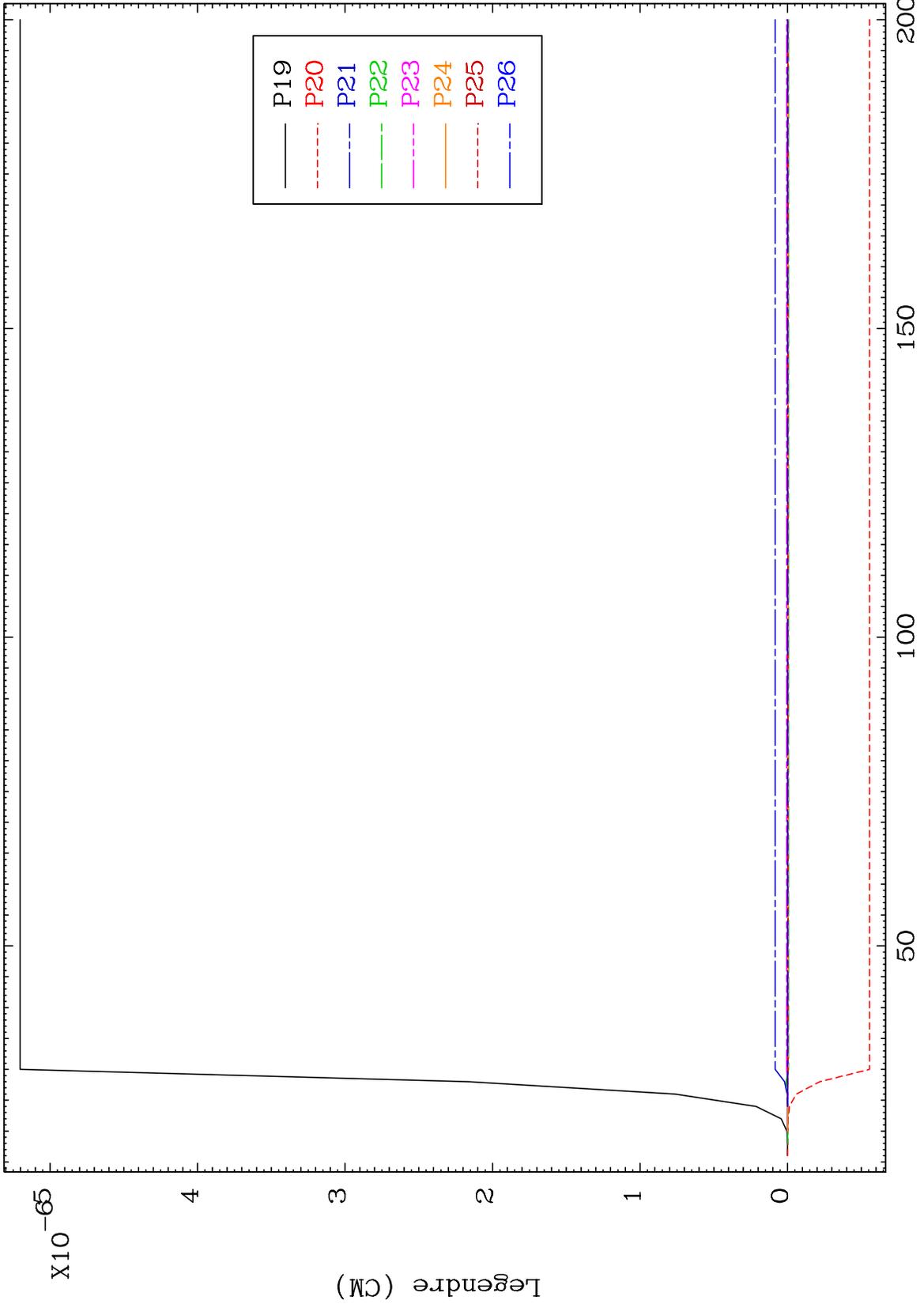
86

83-Bi-212

MAT 8334

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

83-Bi-212



87

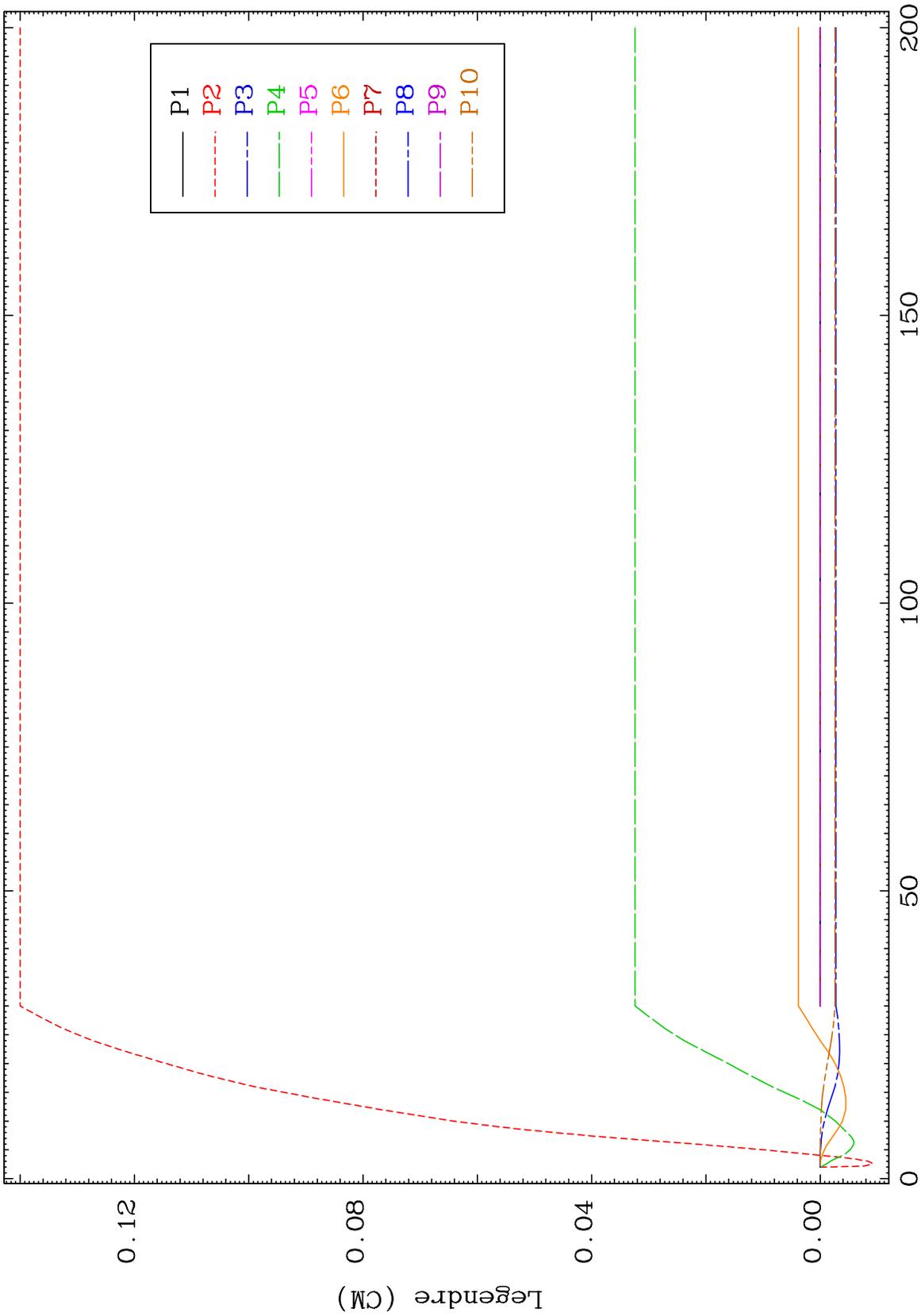
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



88

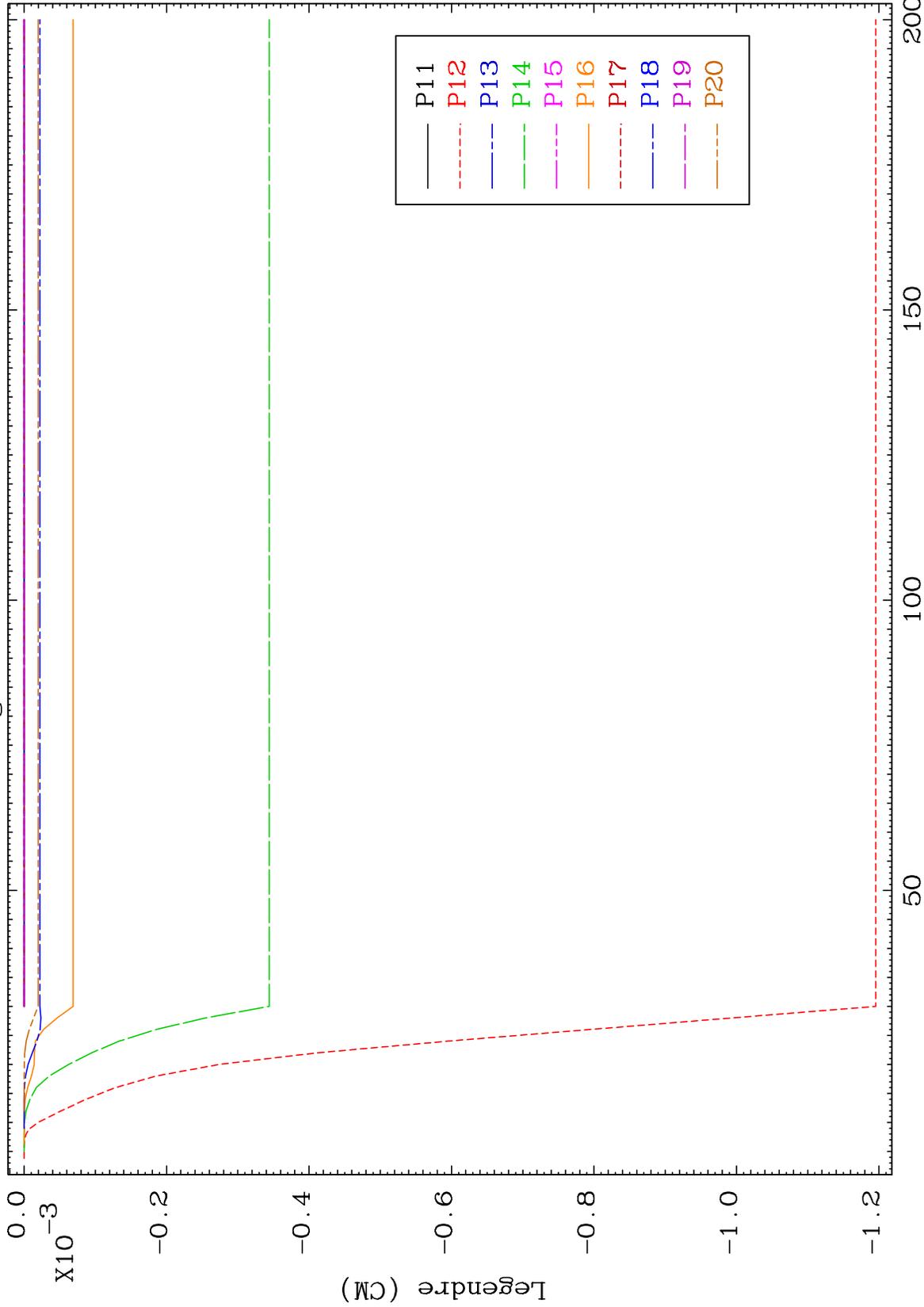
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



89

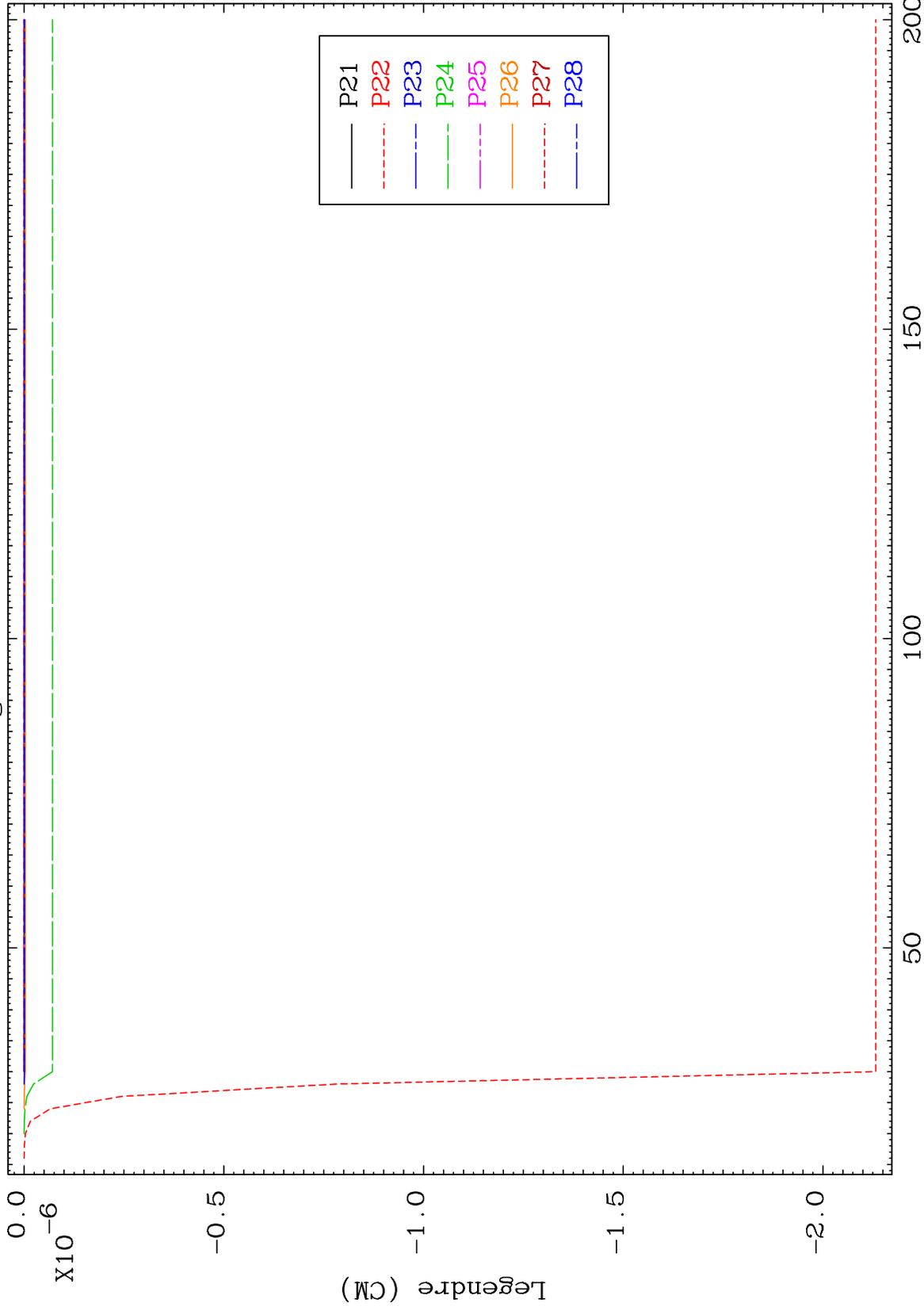
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



90

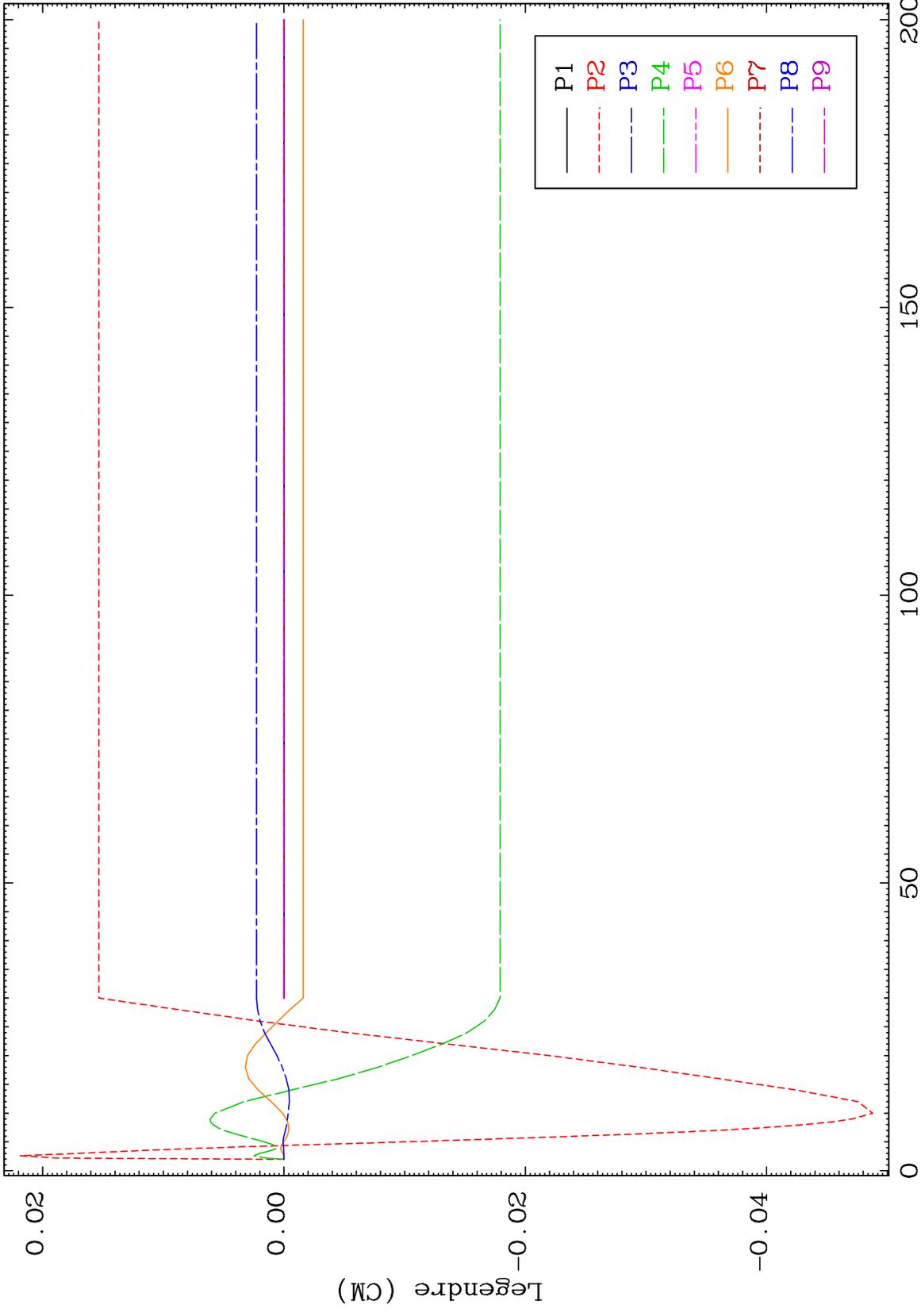
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



91

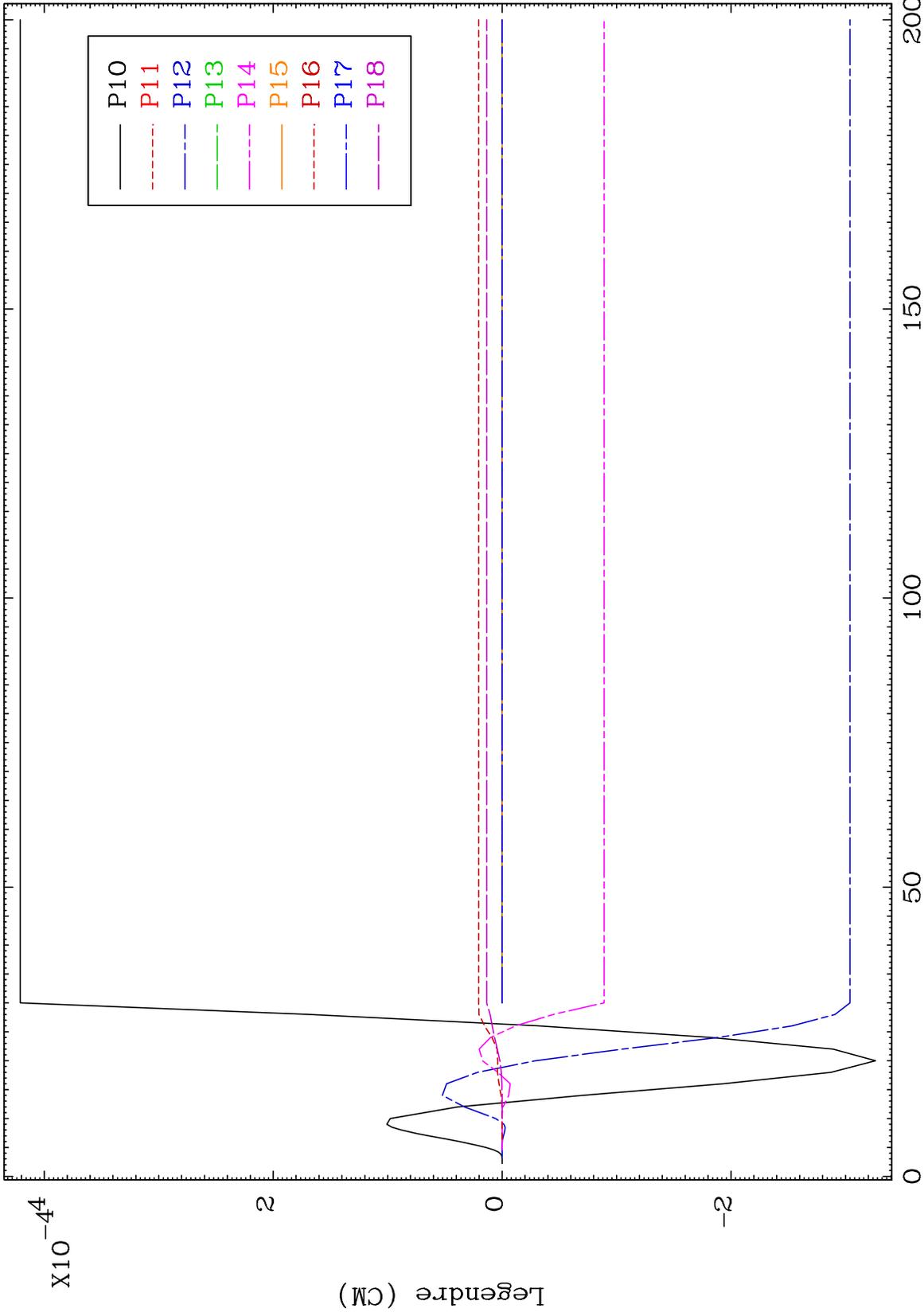
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



92

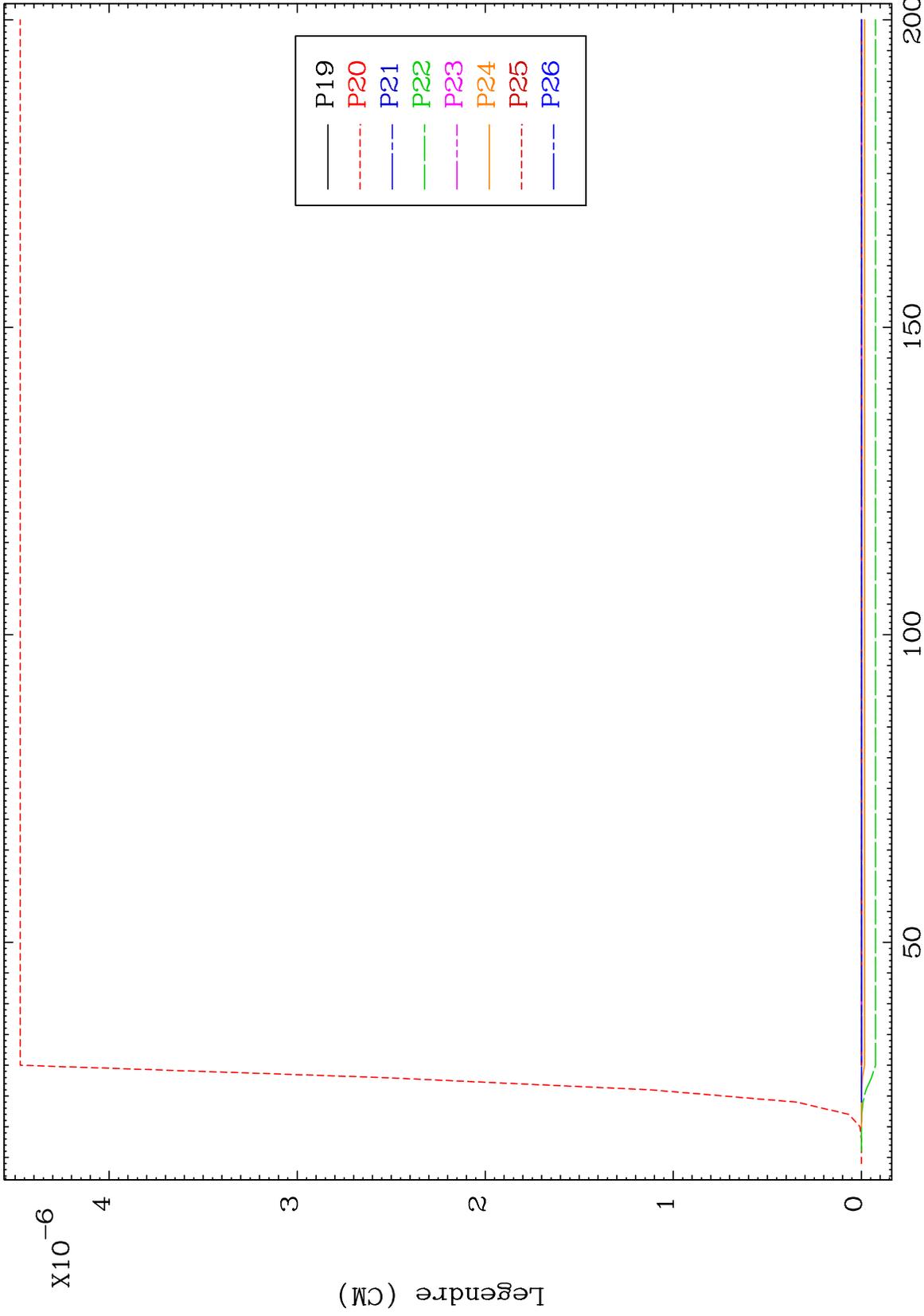
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



93

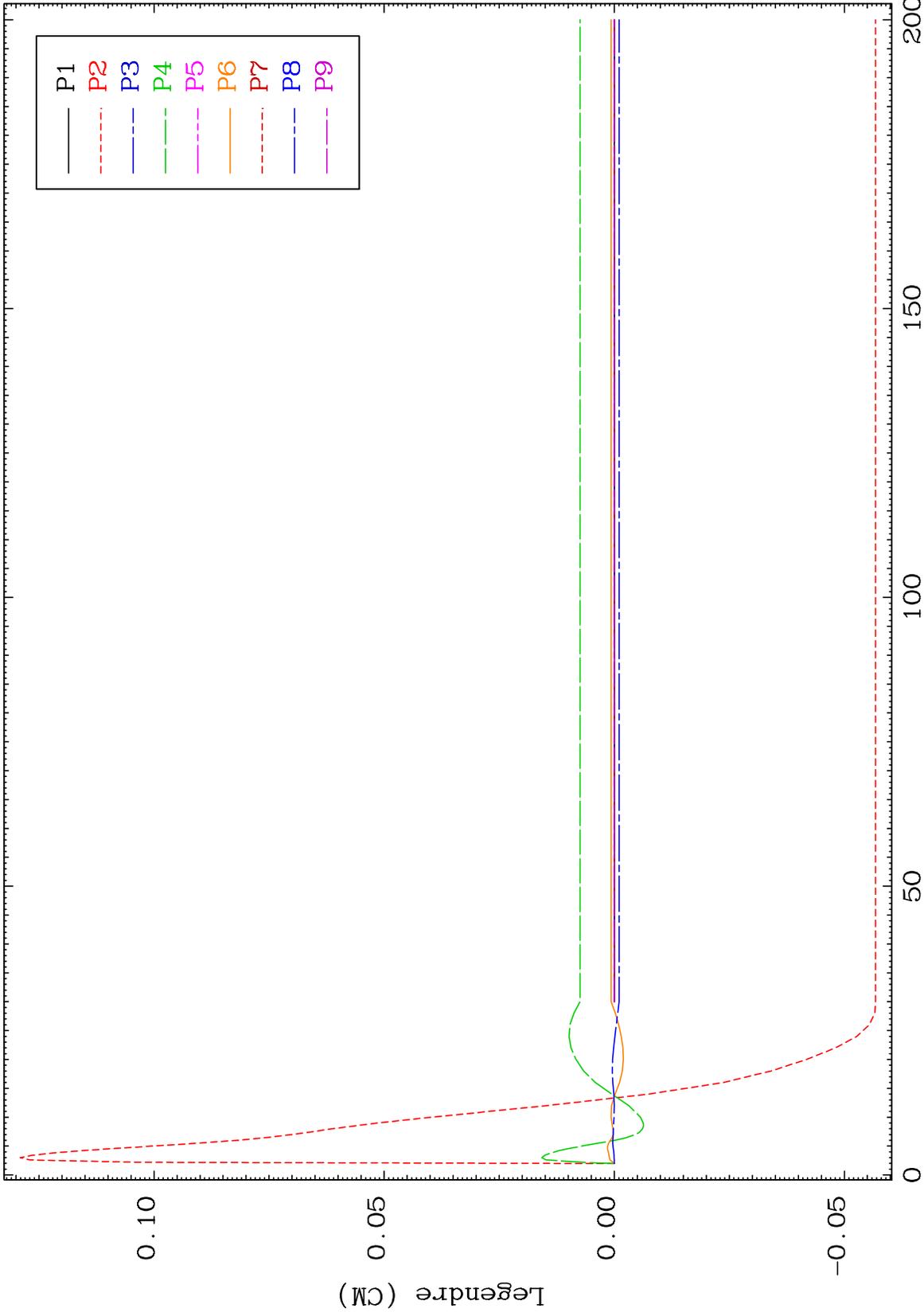
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



94

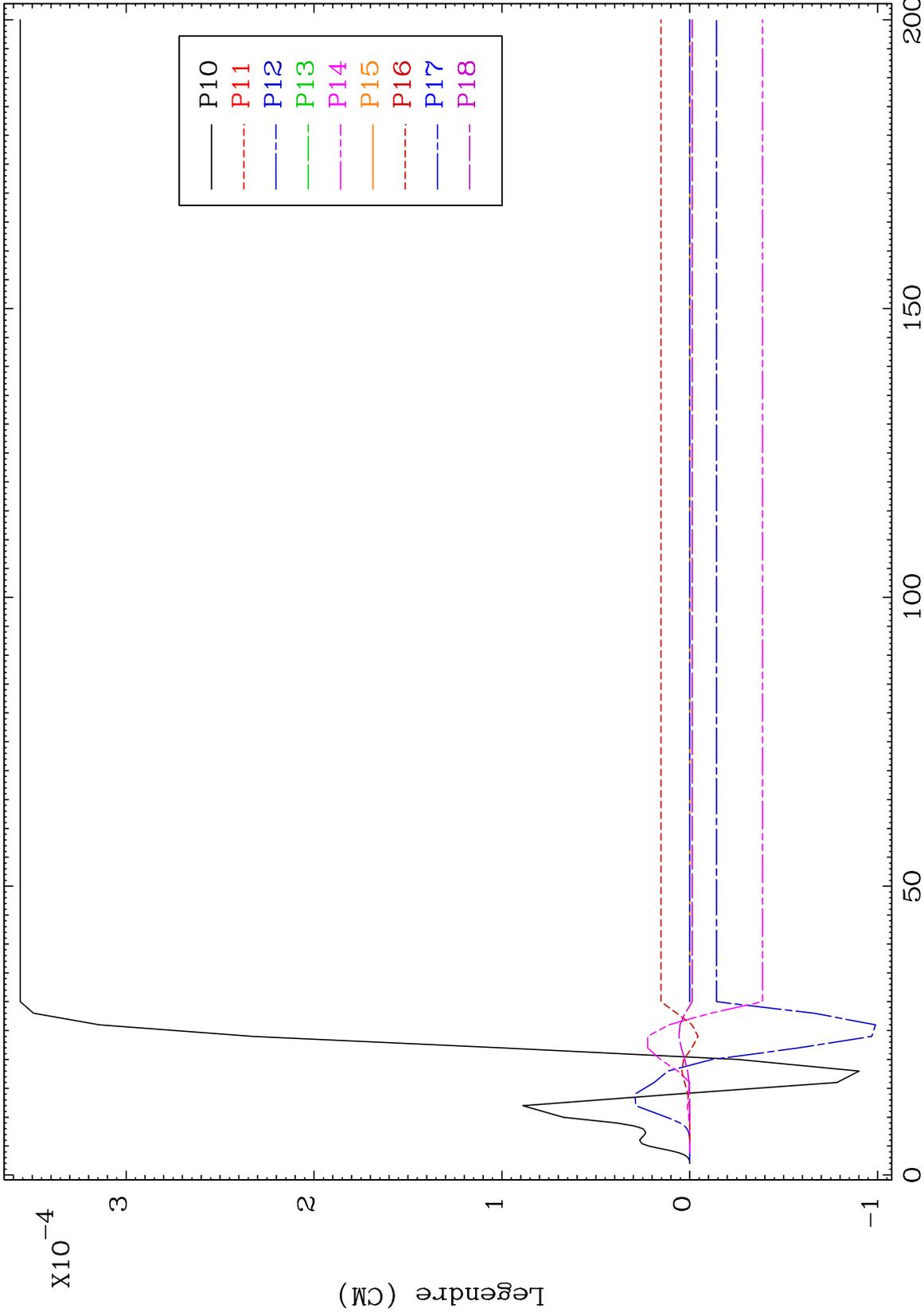
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



95

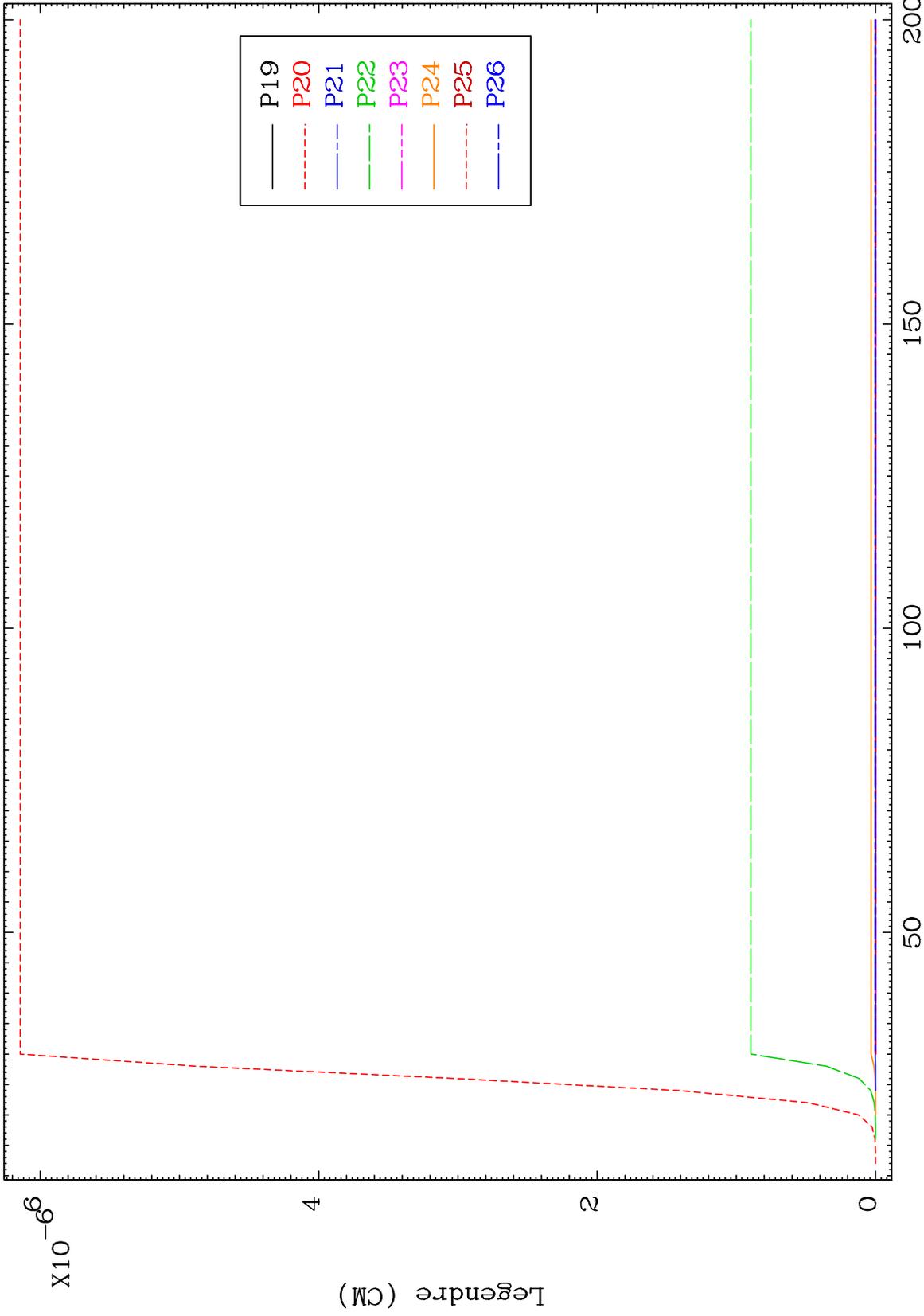
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



96

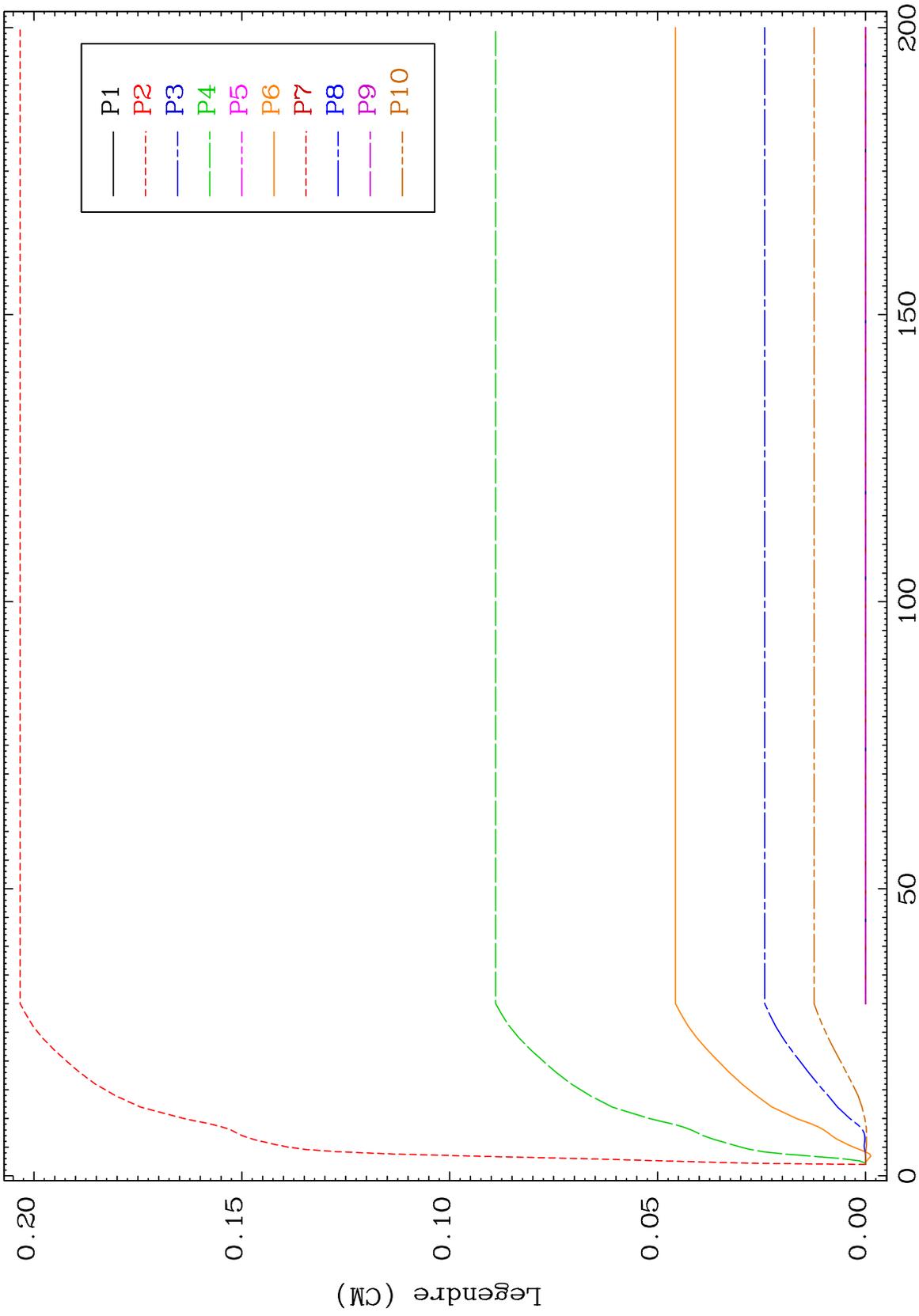
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



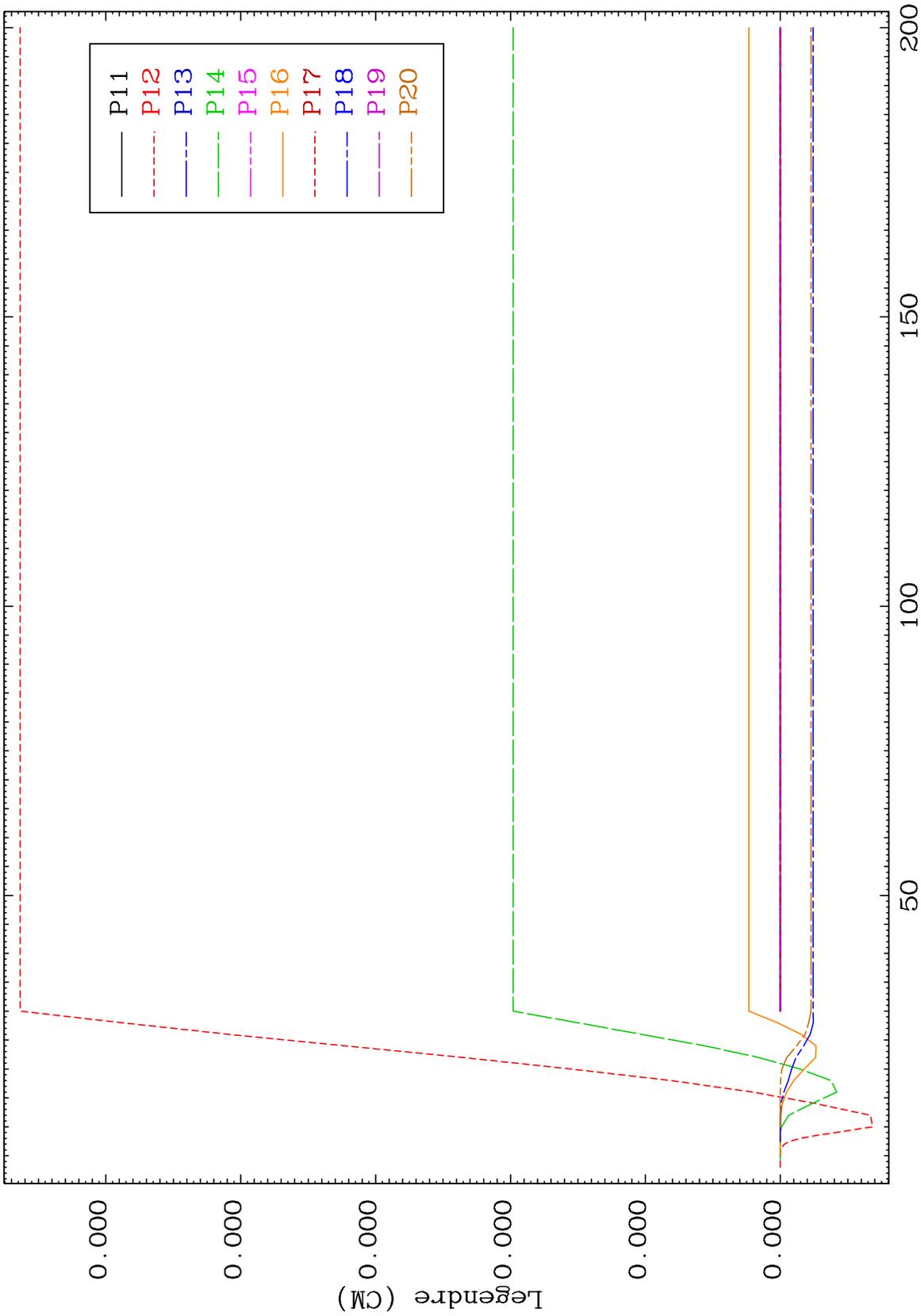
97

83-Bi-212

MAT 8334

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

83-Bi-212



98

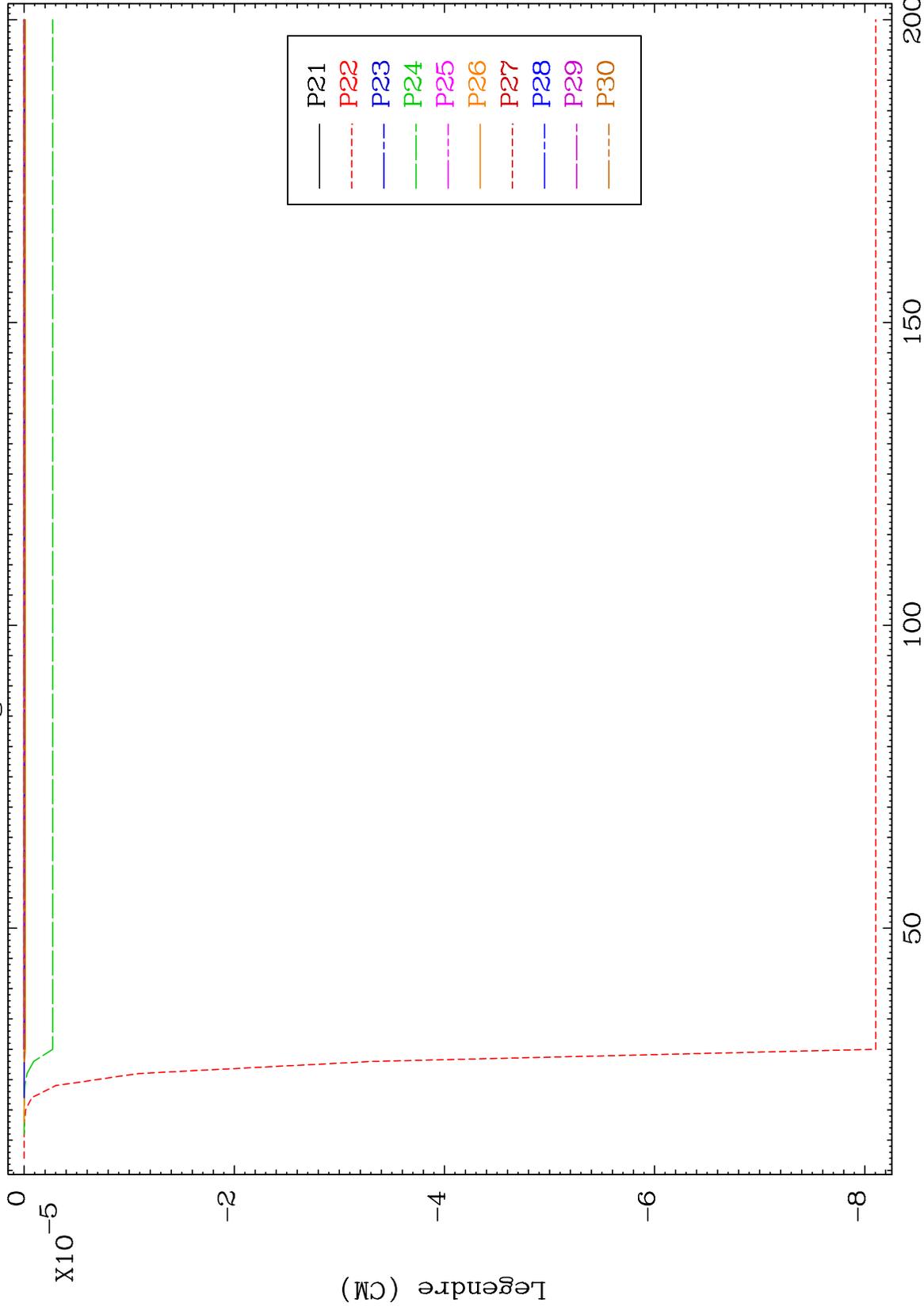
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



99

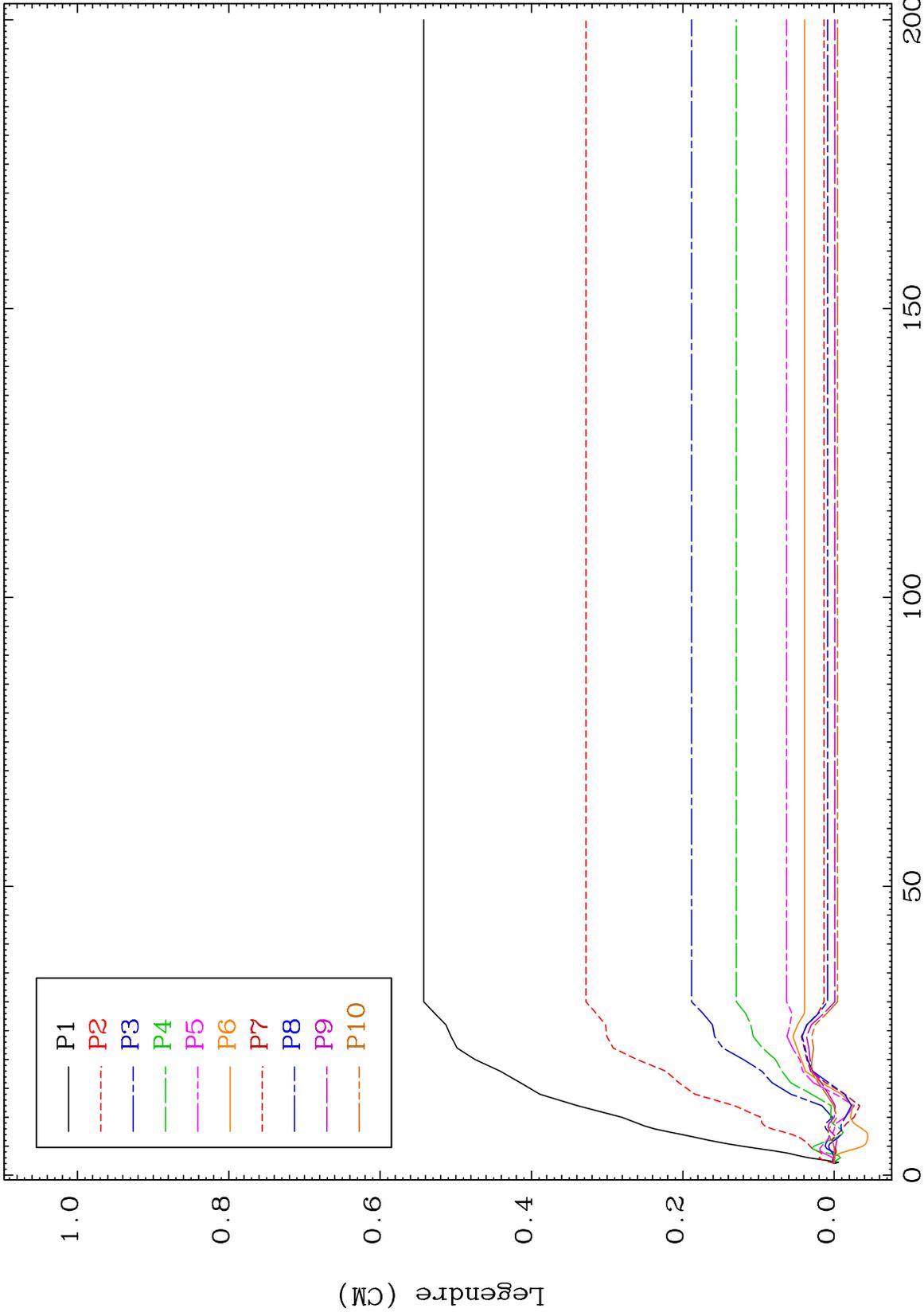
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



83-Bi-212

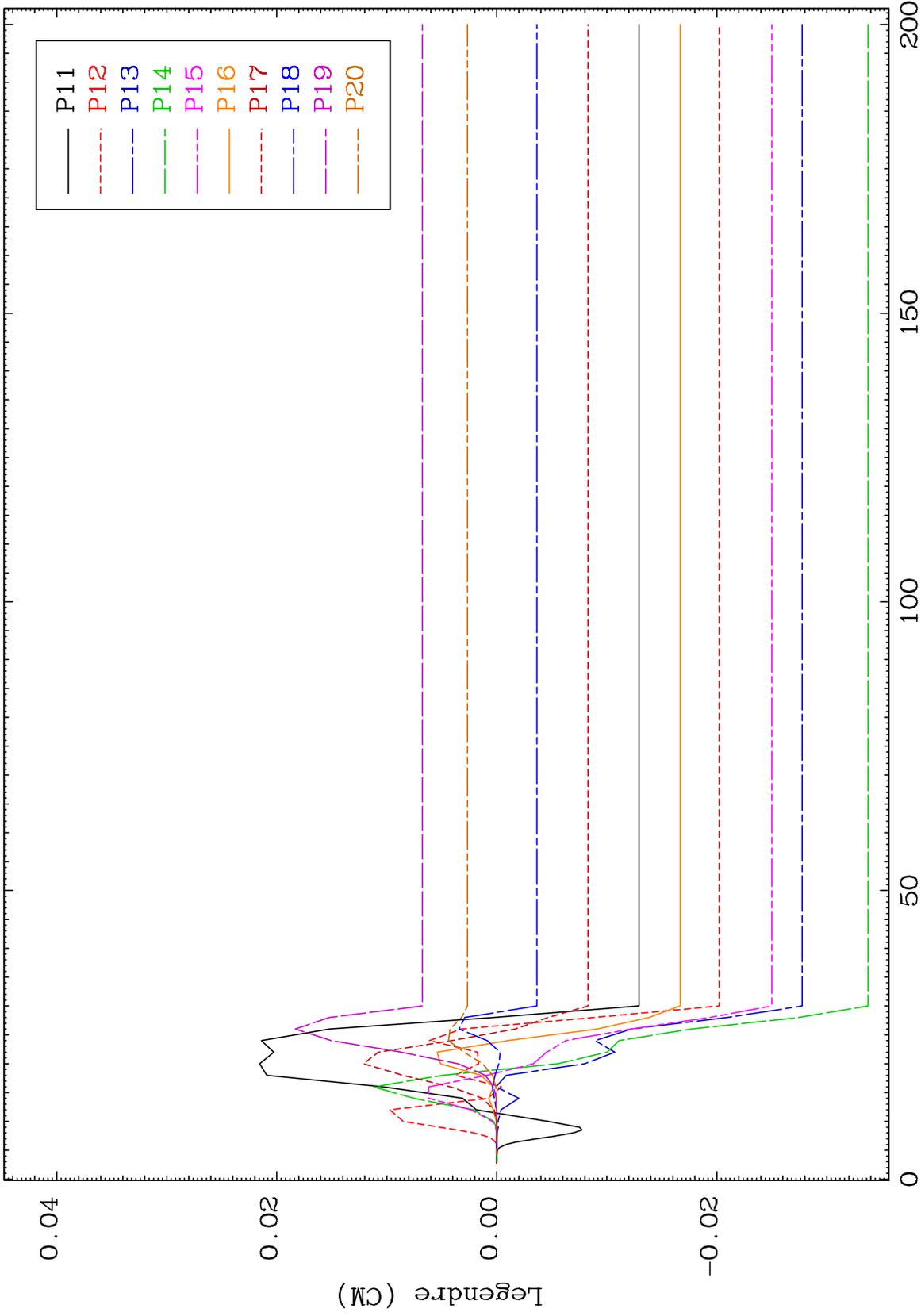
Incident Energy (MeV)

100

MAT 8334

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

83-Bi-212



101

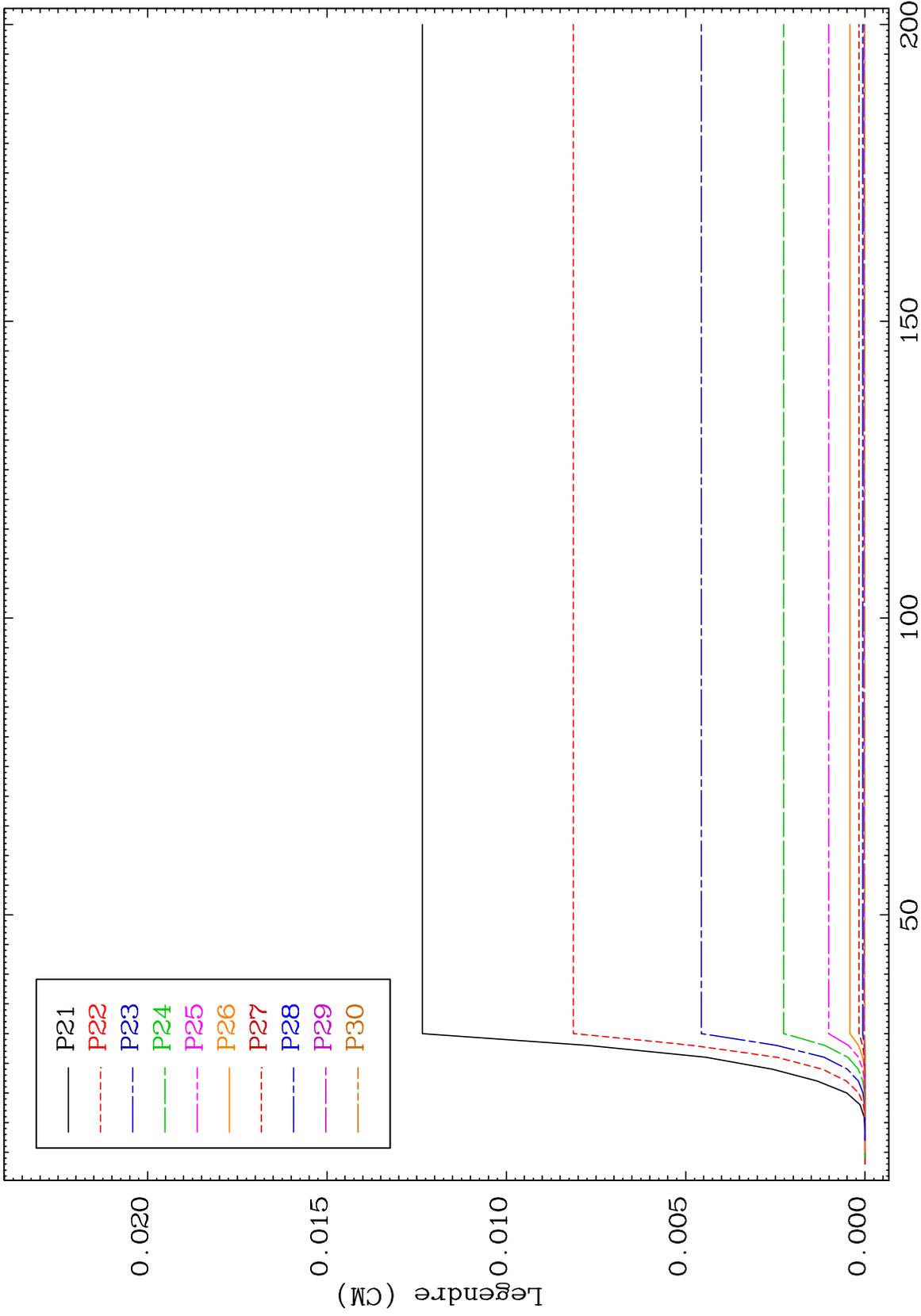
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



102

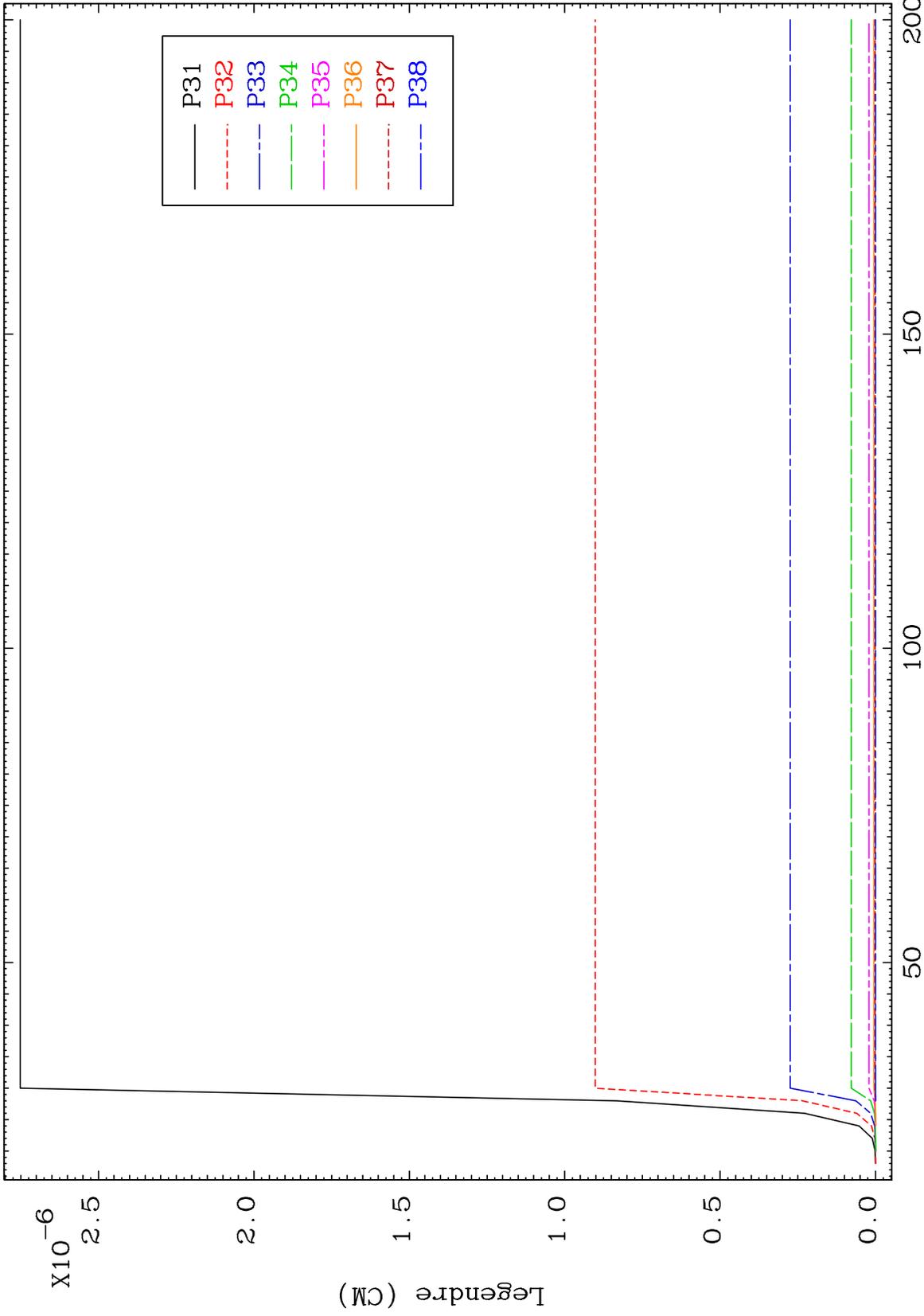
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



103

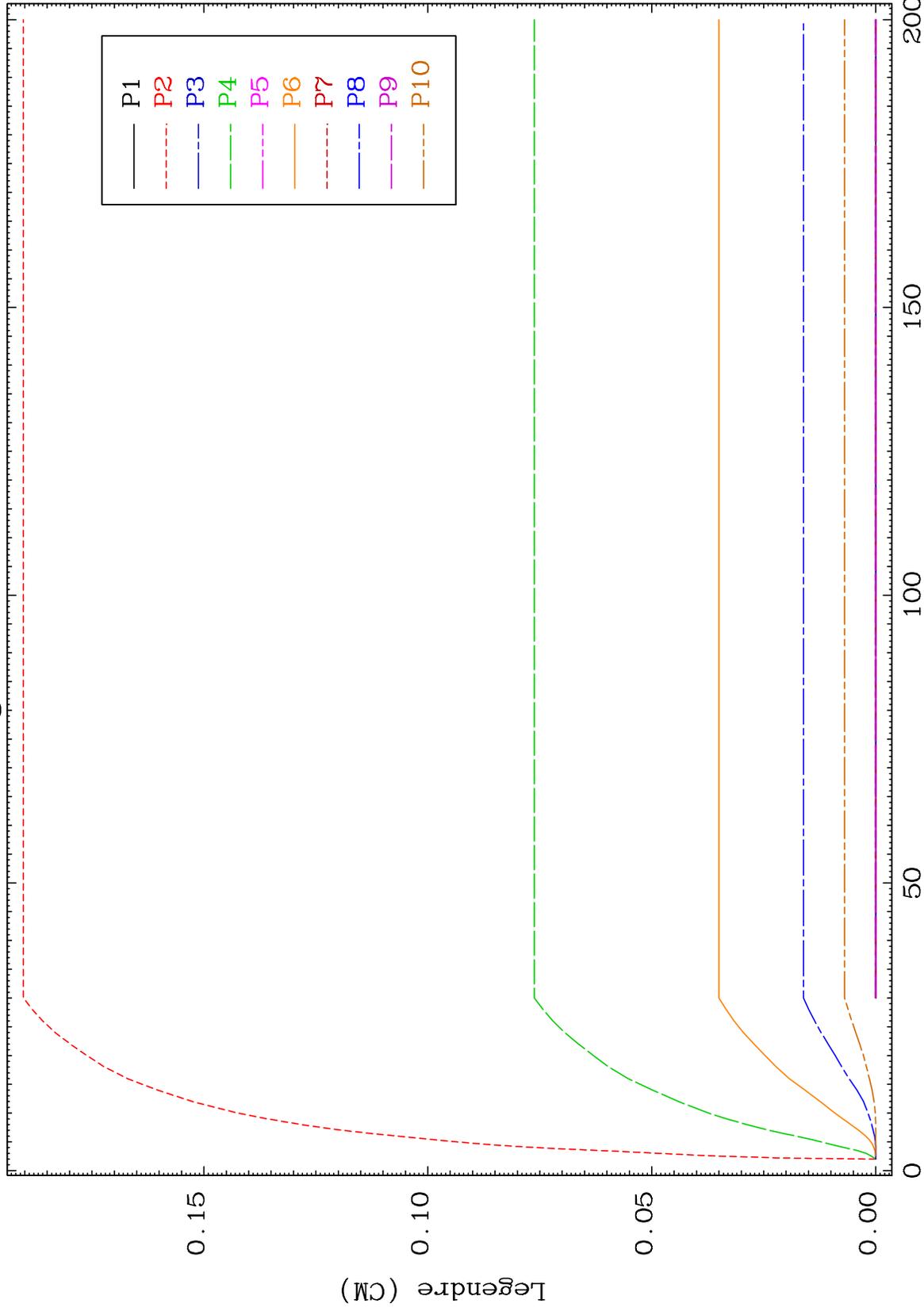
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



104

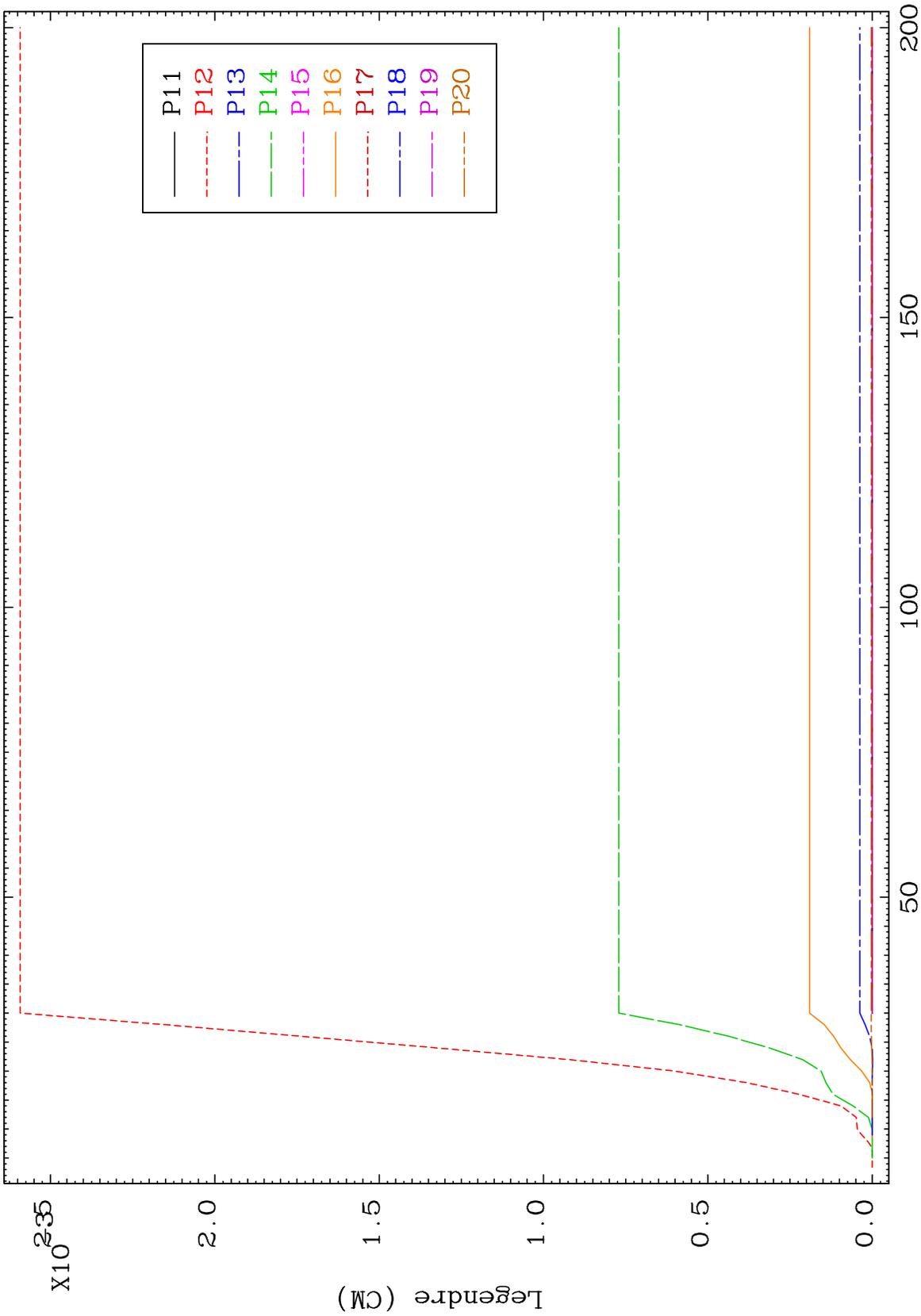
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



105

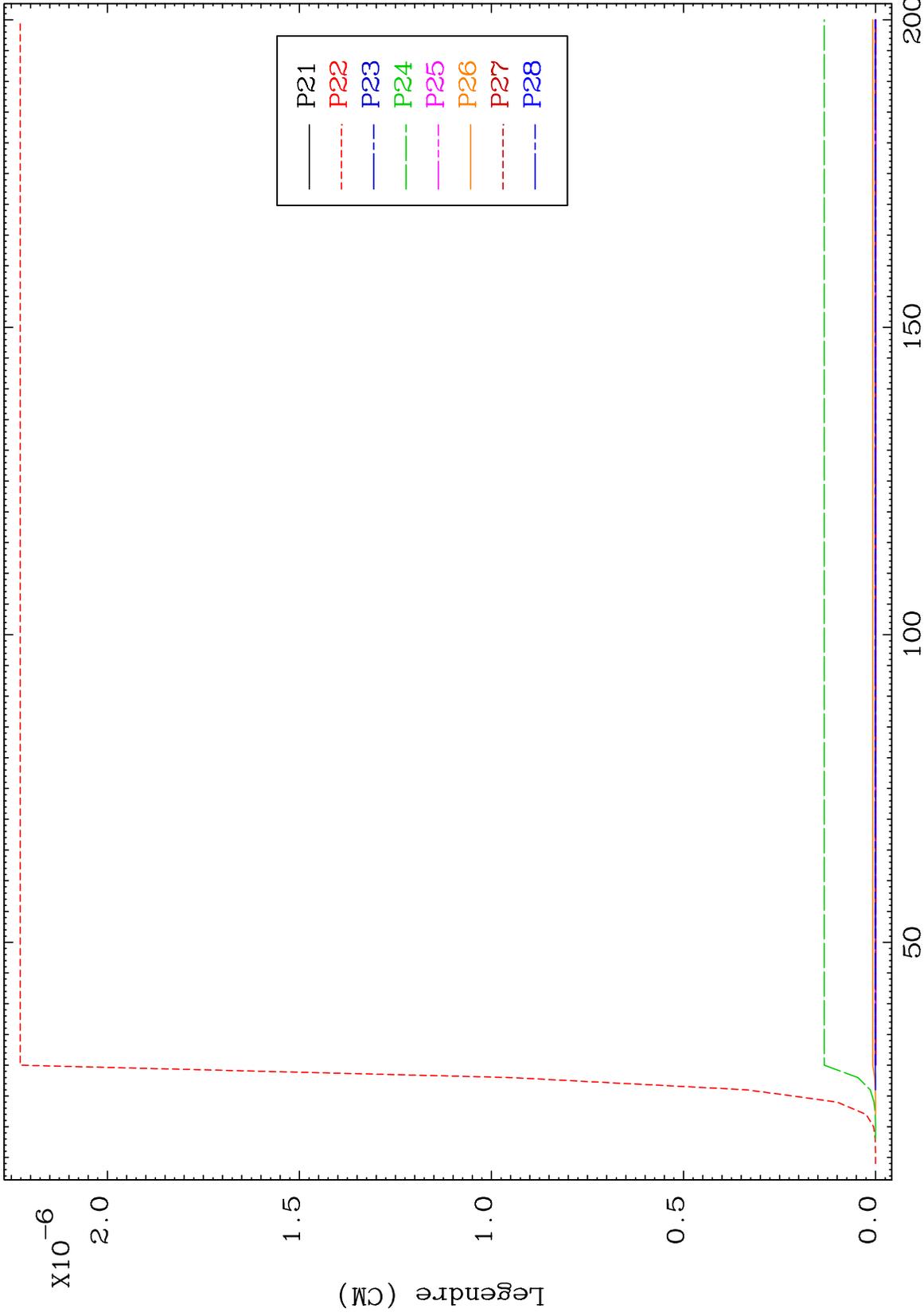
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



106

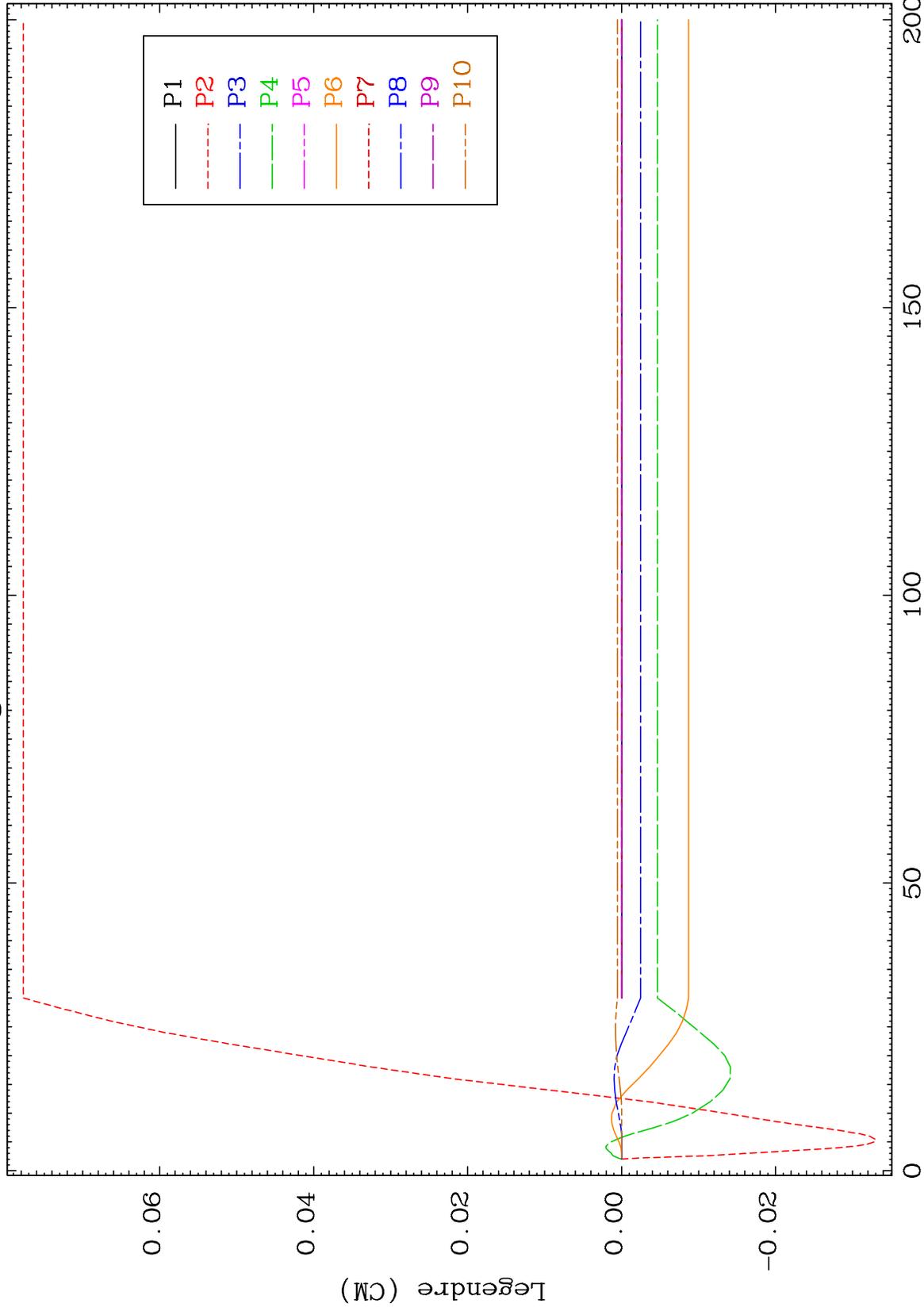
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



107

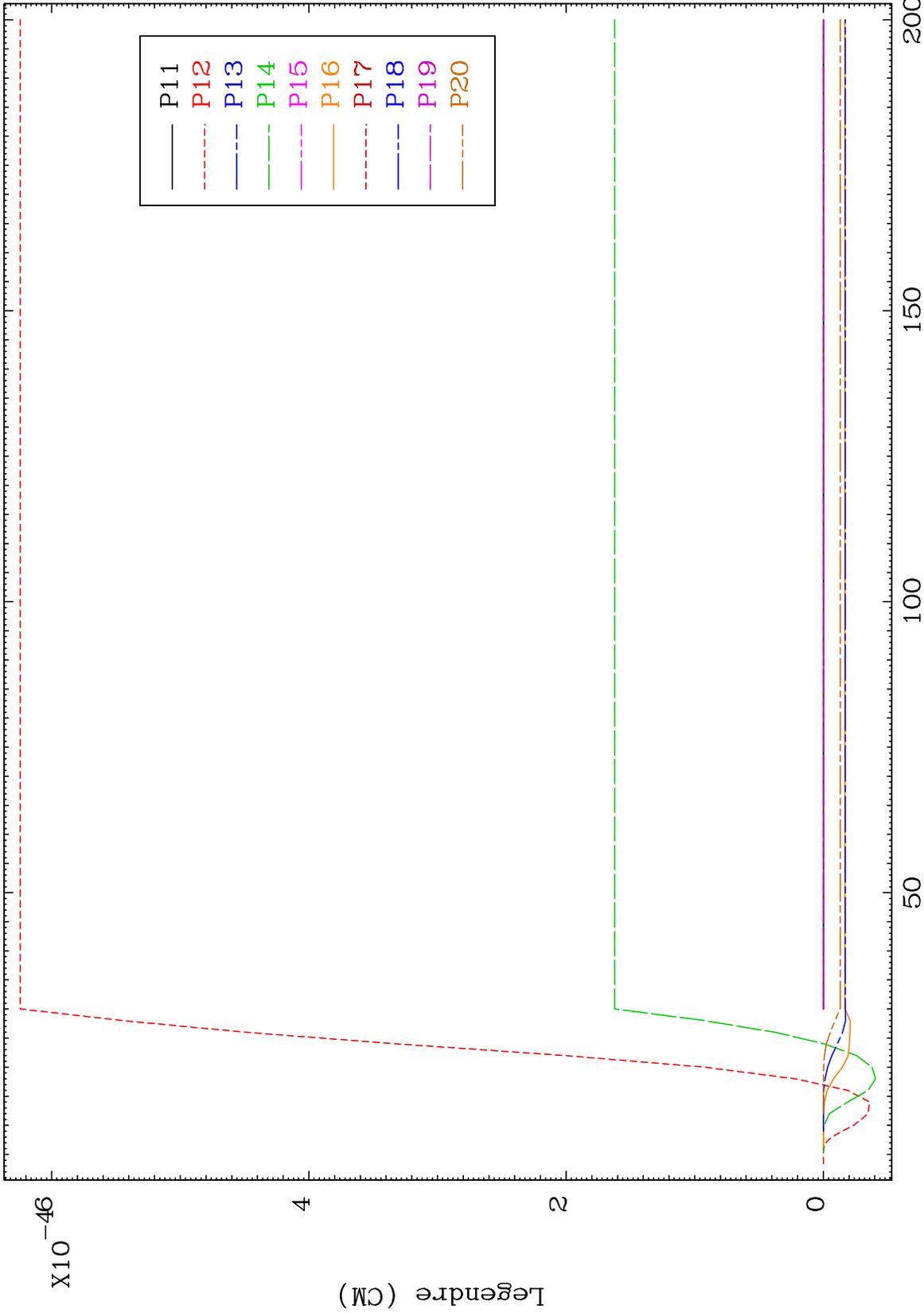
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



108

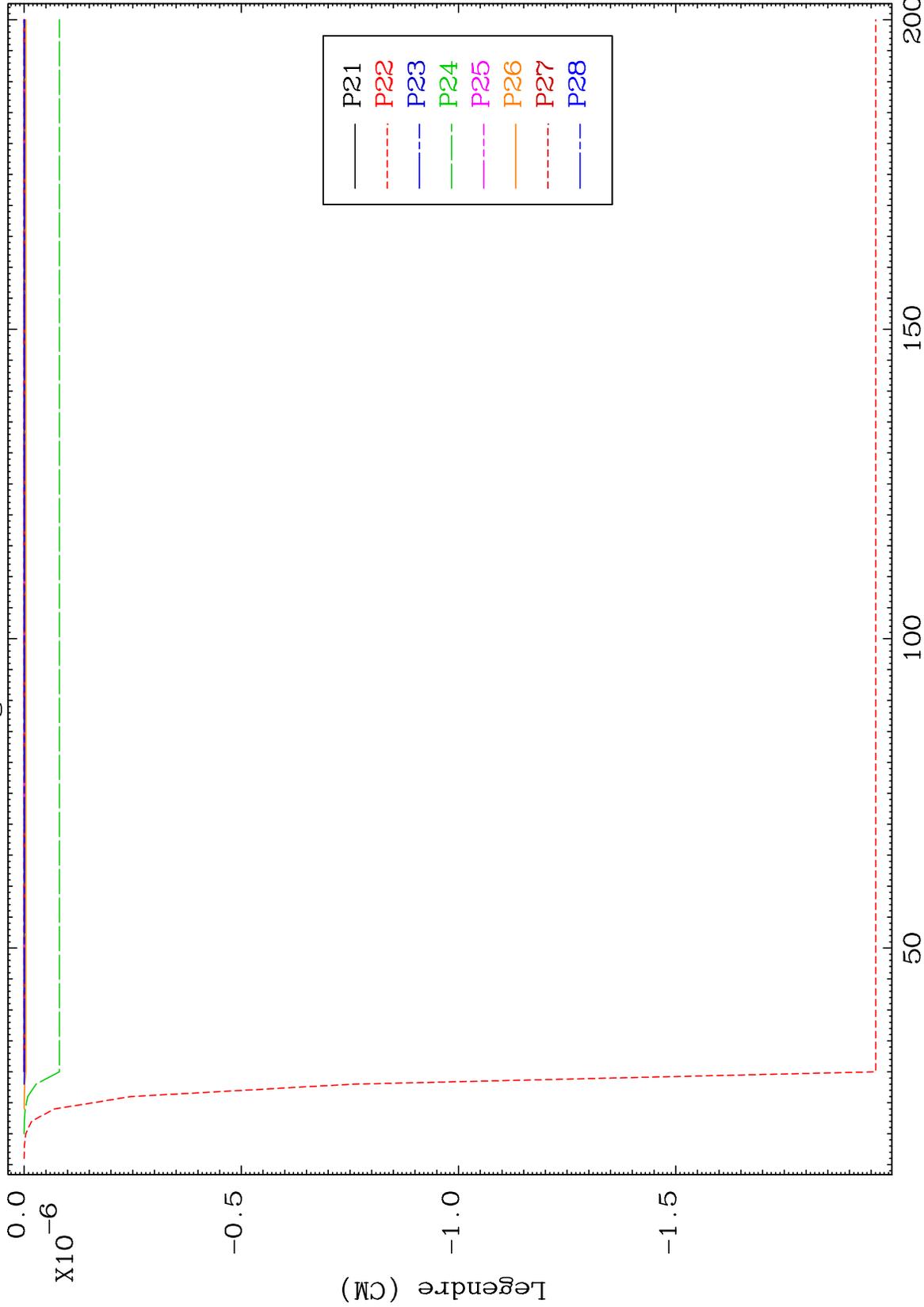
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



109

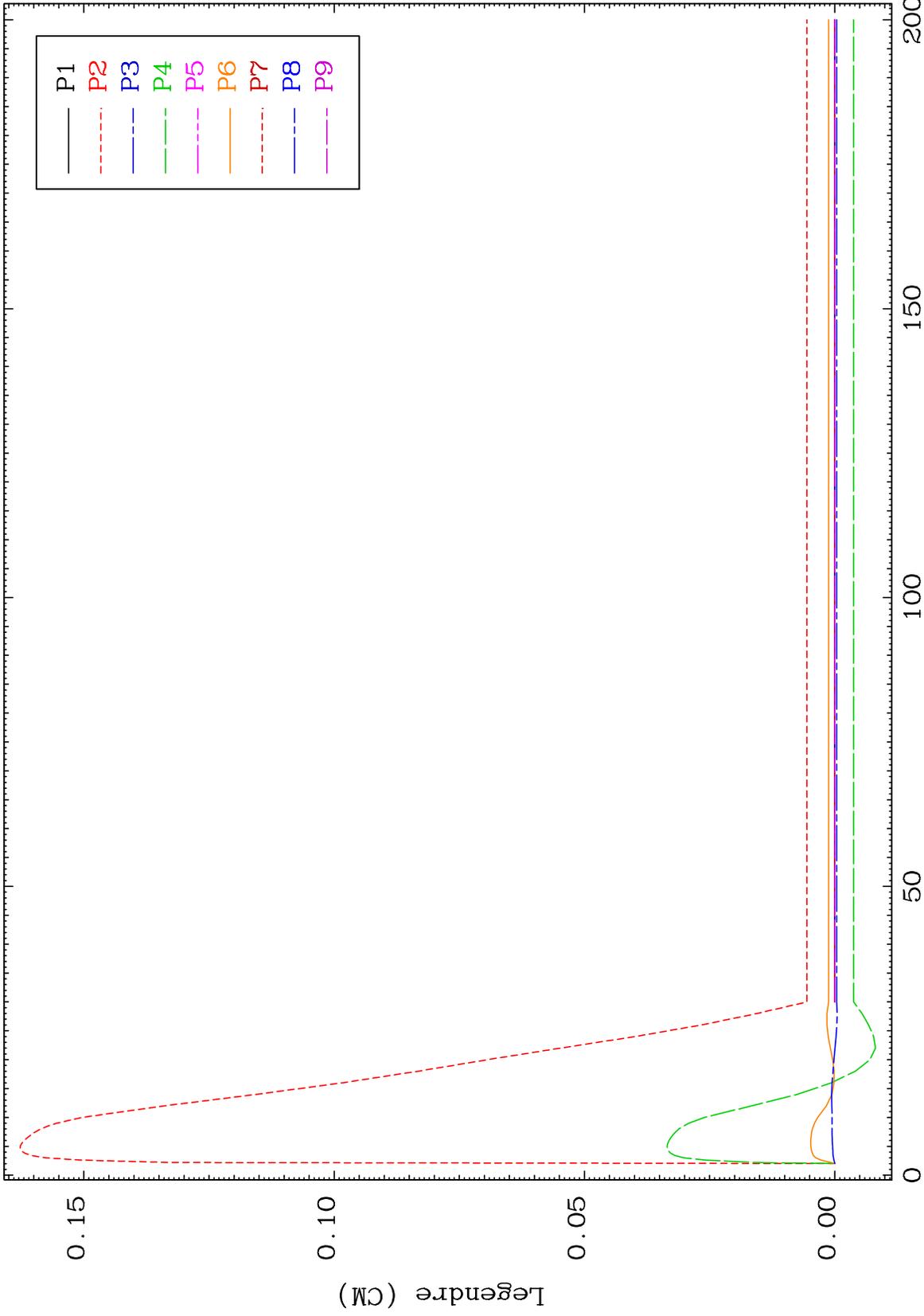
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



83-Bi-212

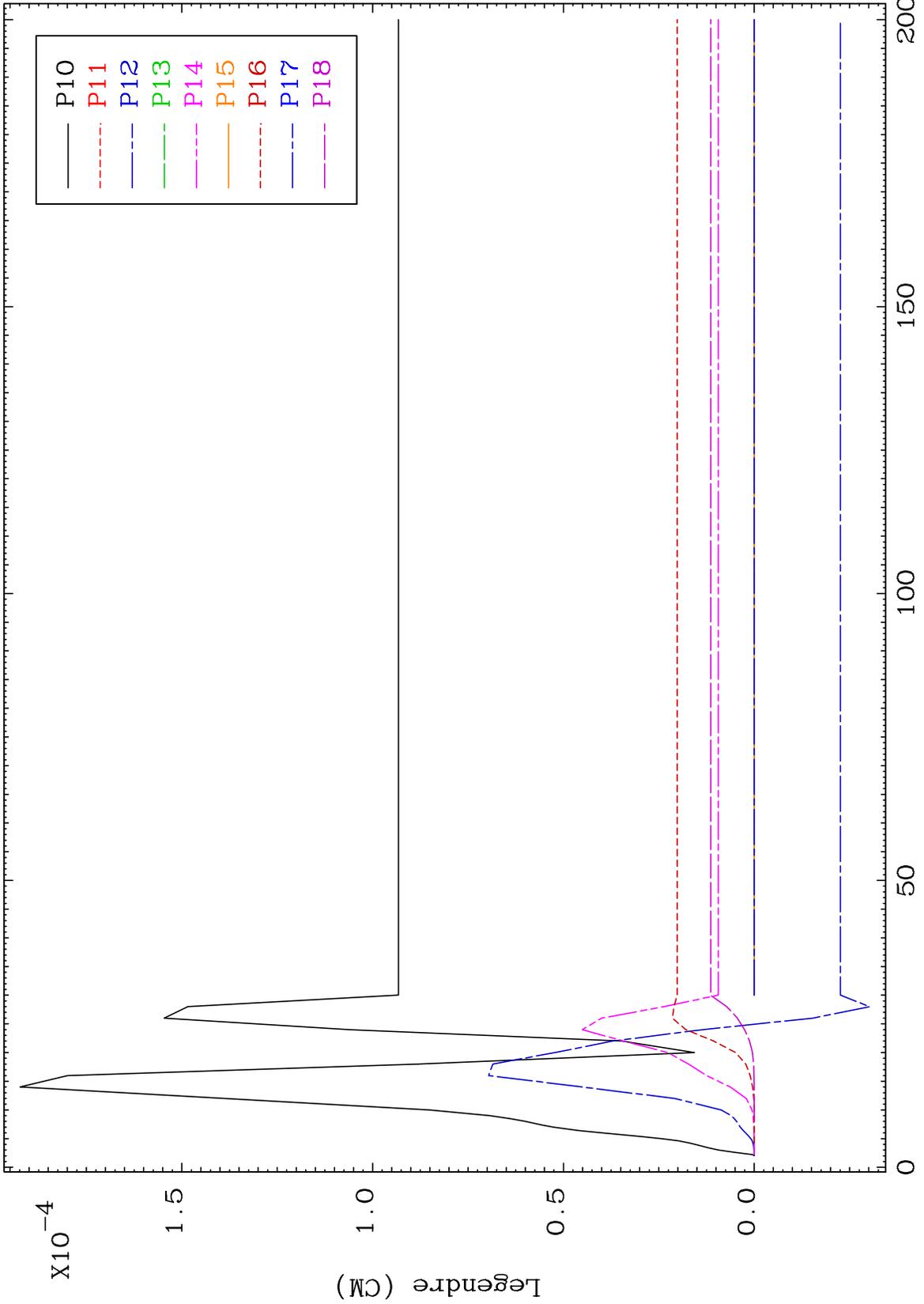
Incident Energy (MeV)

110

MAT 8334

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

83-Bi-212

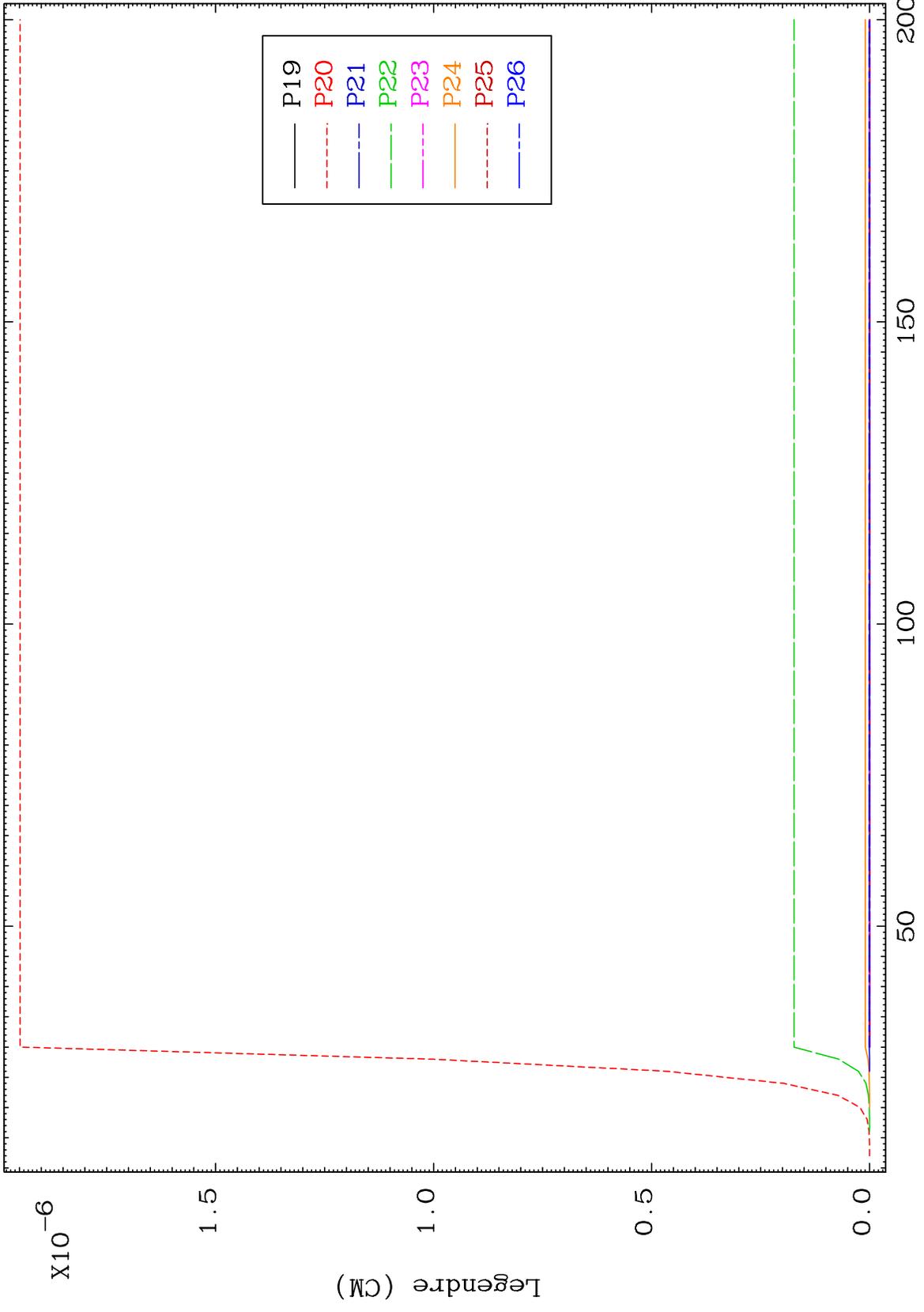


111

Incident Energy (MeV)

83-Bi-212

MAT 8334 MT= 78 (n,n') Level Legendre Coefficients 83-Bi-212

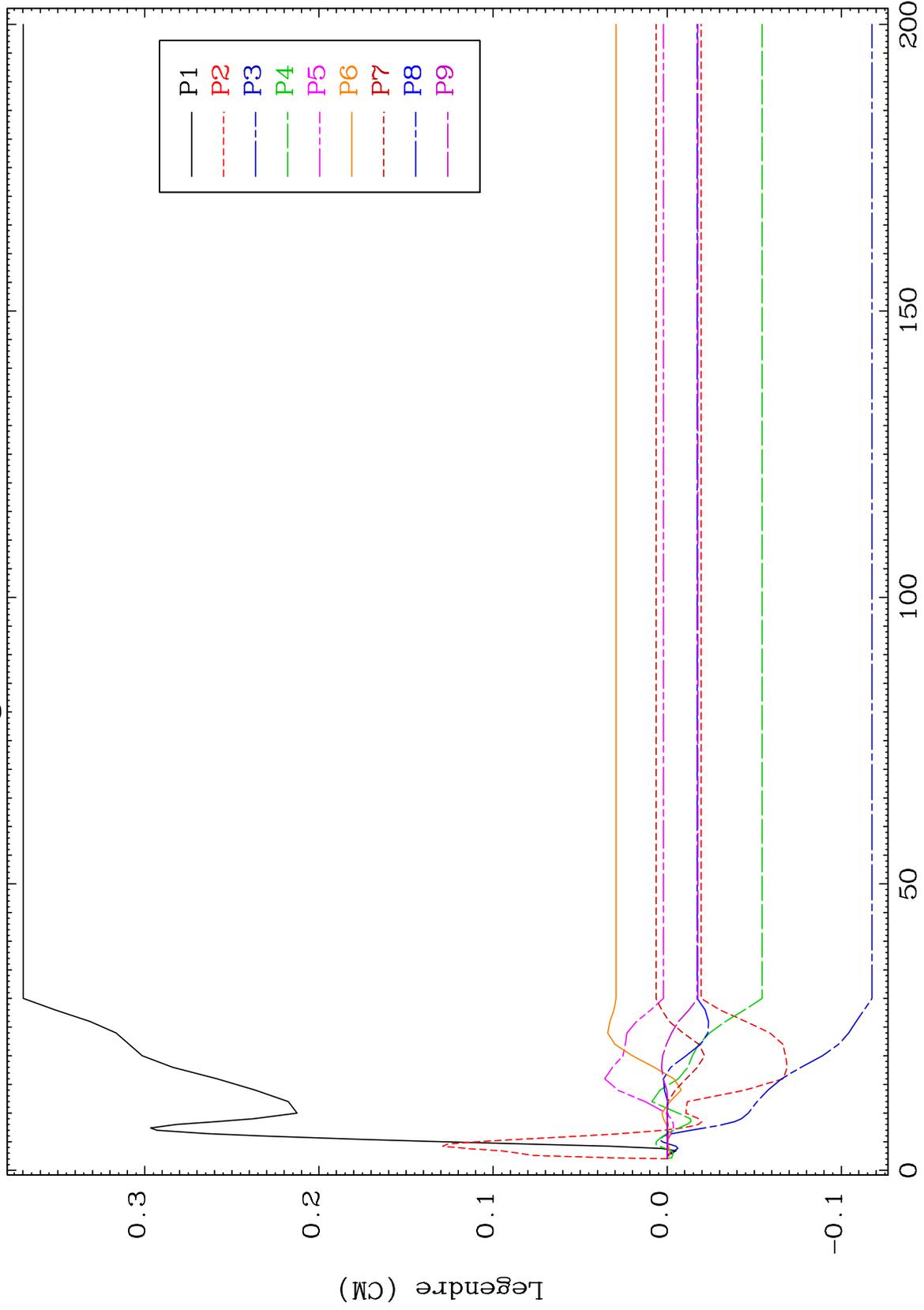


112 83-Bi-212

MAT 8334

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

83-Bi-212



113

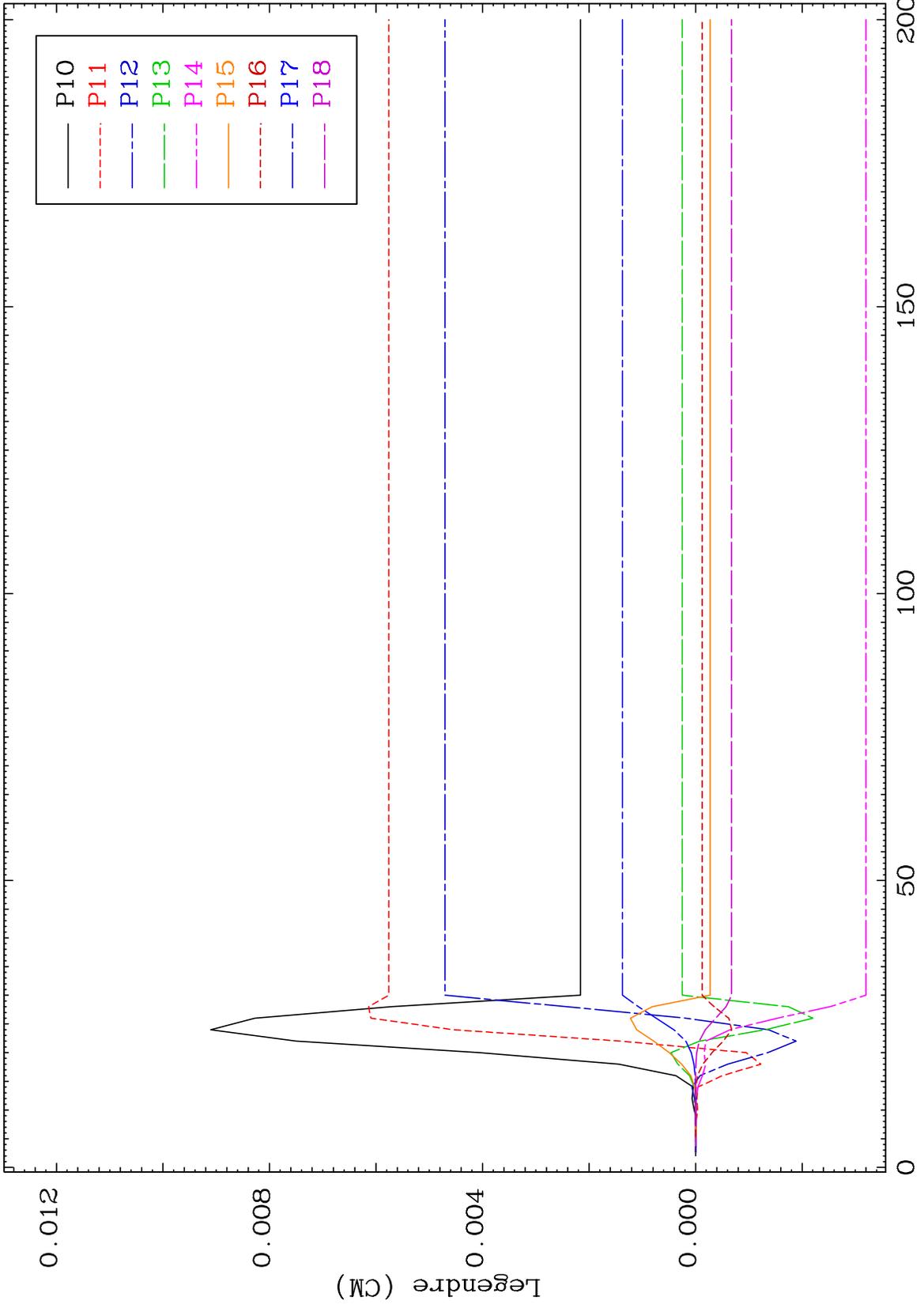
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



114

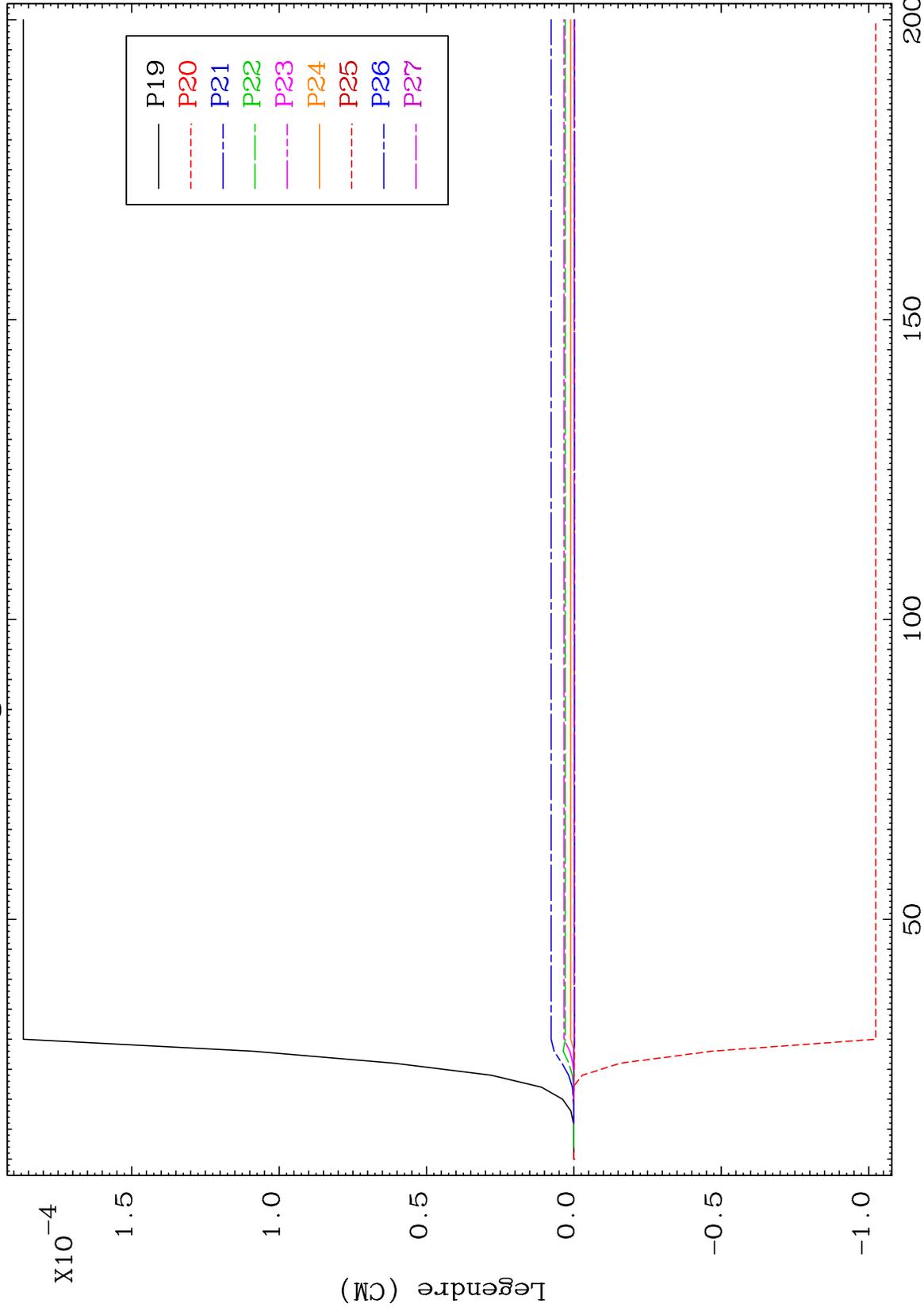
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212

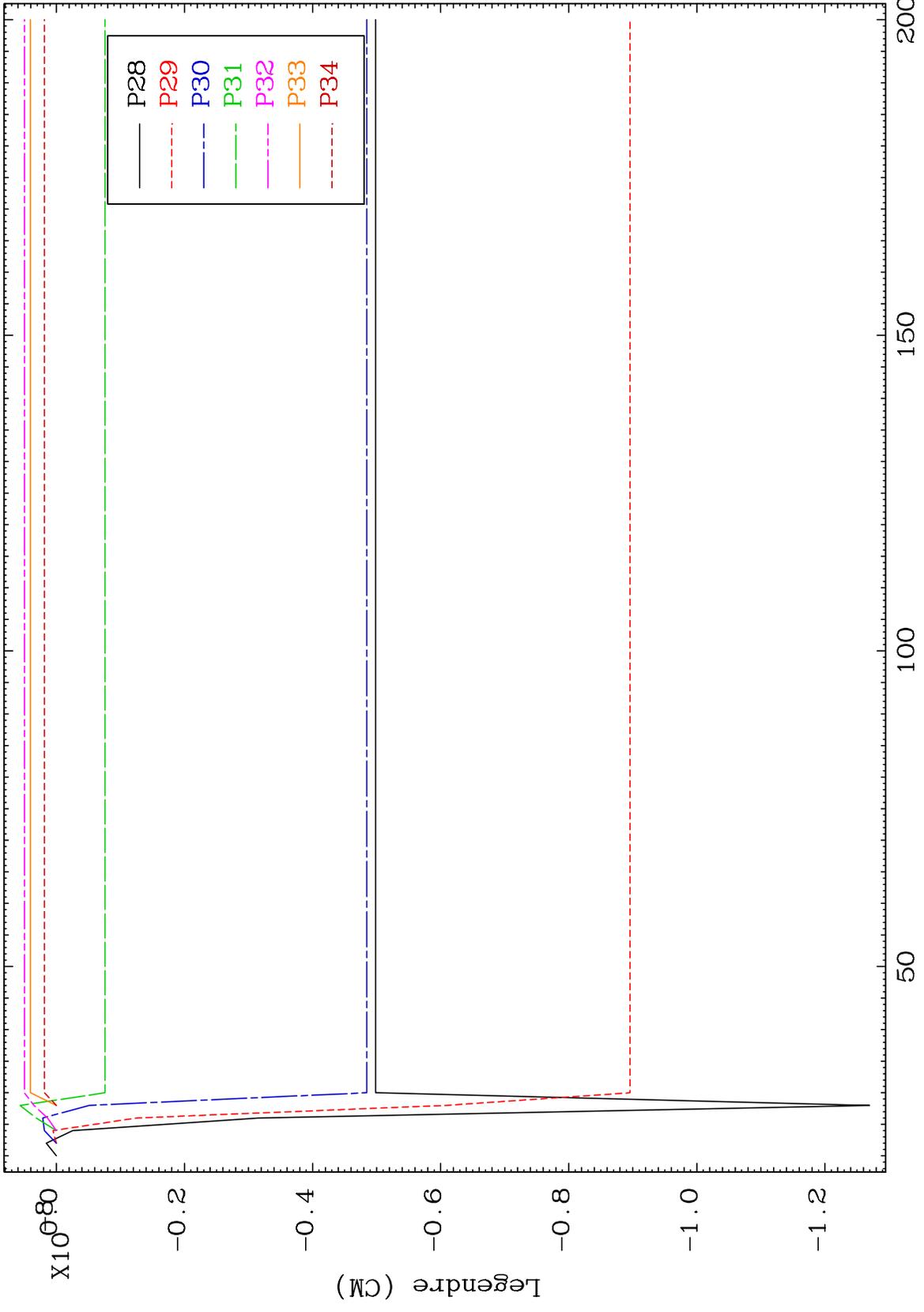


115

Incident Energy (MeV)

83-Bi-212

MAT 8334 MT= 79 (n,n') Level Legendre Coefficients 83-Bi-212

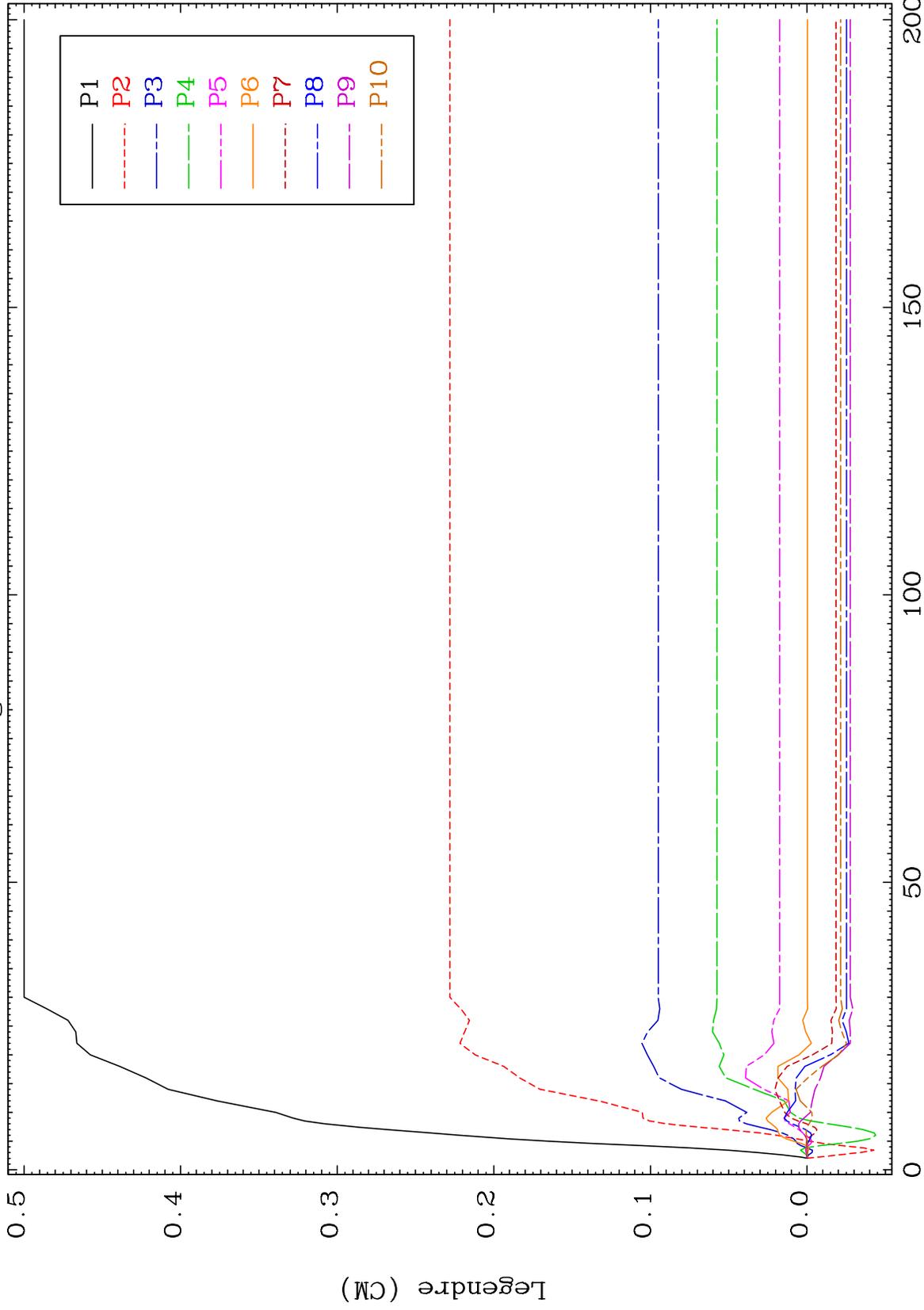


116 83-Bi-212

MAT 8334

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

83-Bi-212



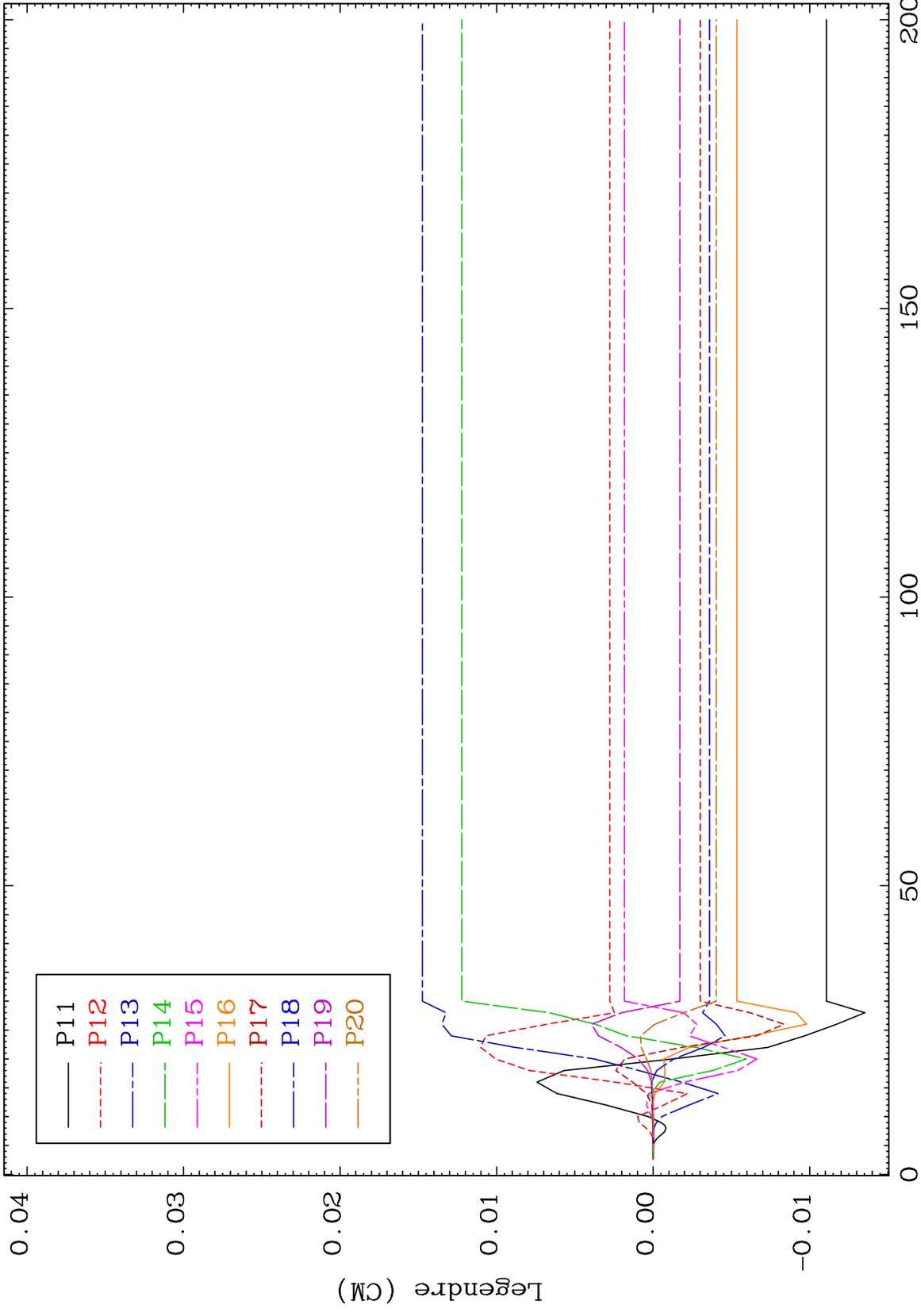
117

83-Bi-212

MAT 8334

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

83-Bi-212



118

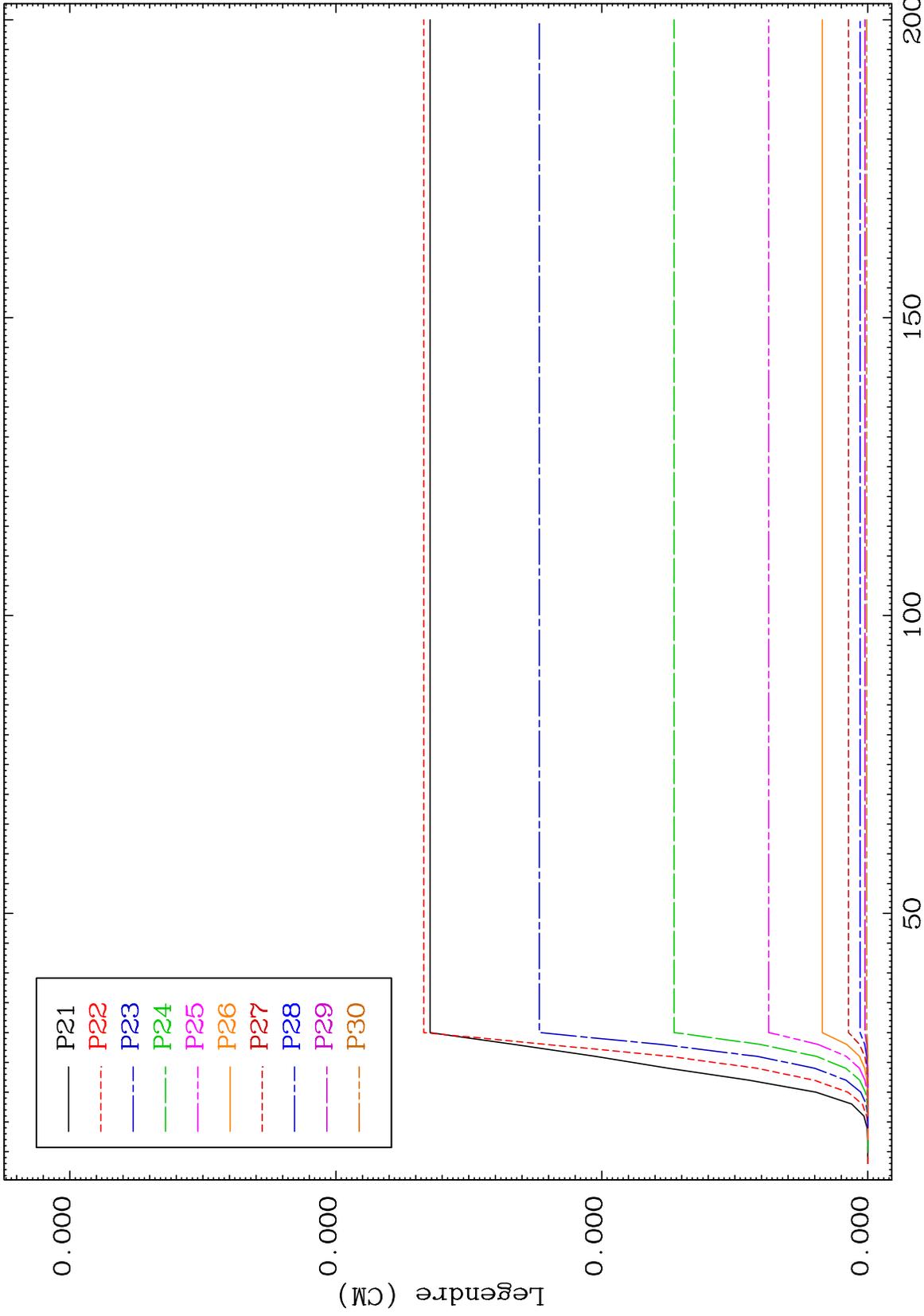
Incident Energy (MeV)

83-Bi-212

MAT 8334

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

83-Bi-212



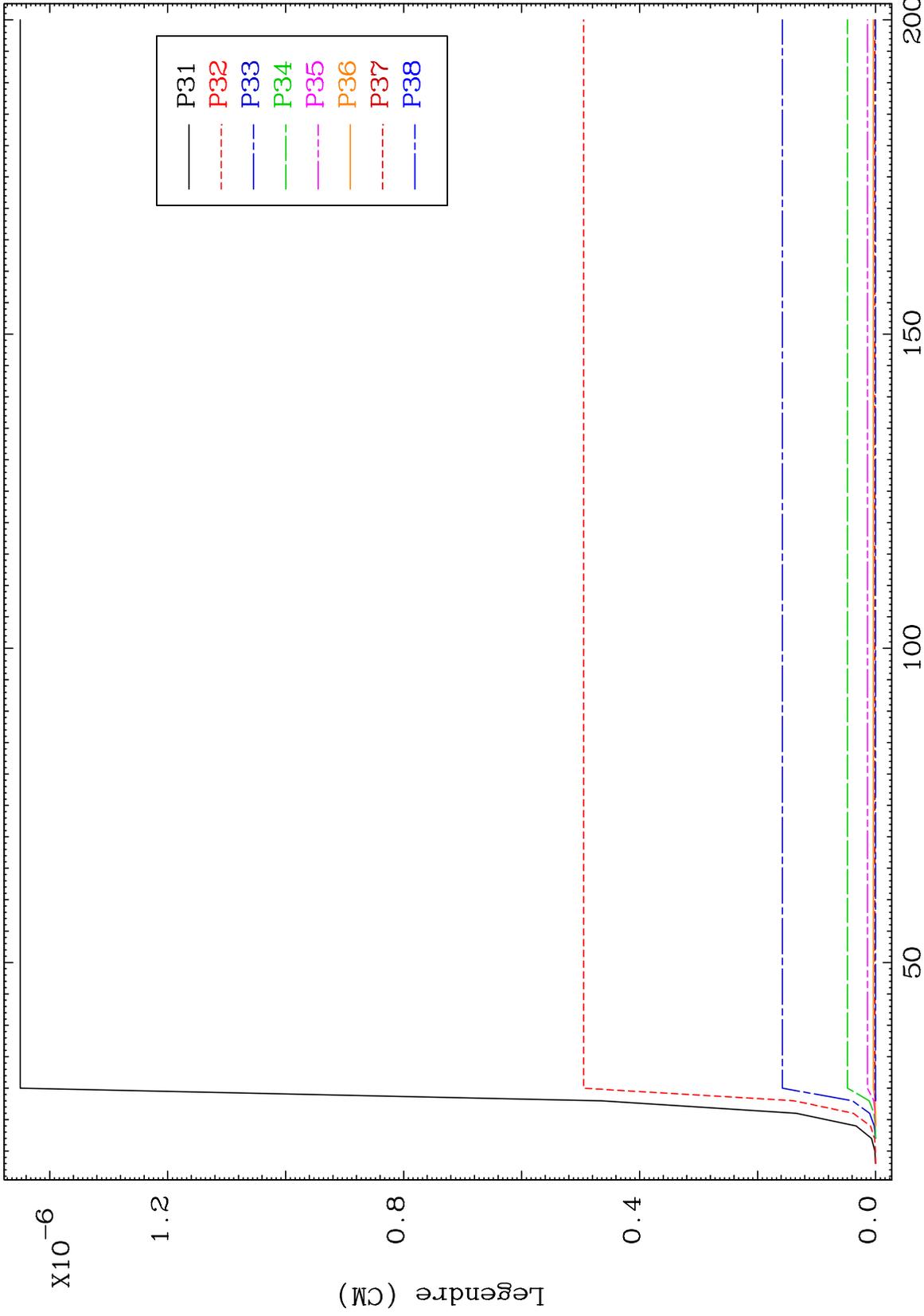
119

83-Bi-212

MAT 8334

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

83-Bi-212



120

50

100

150

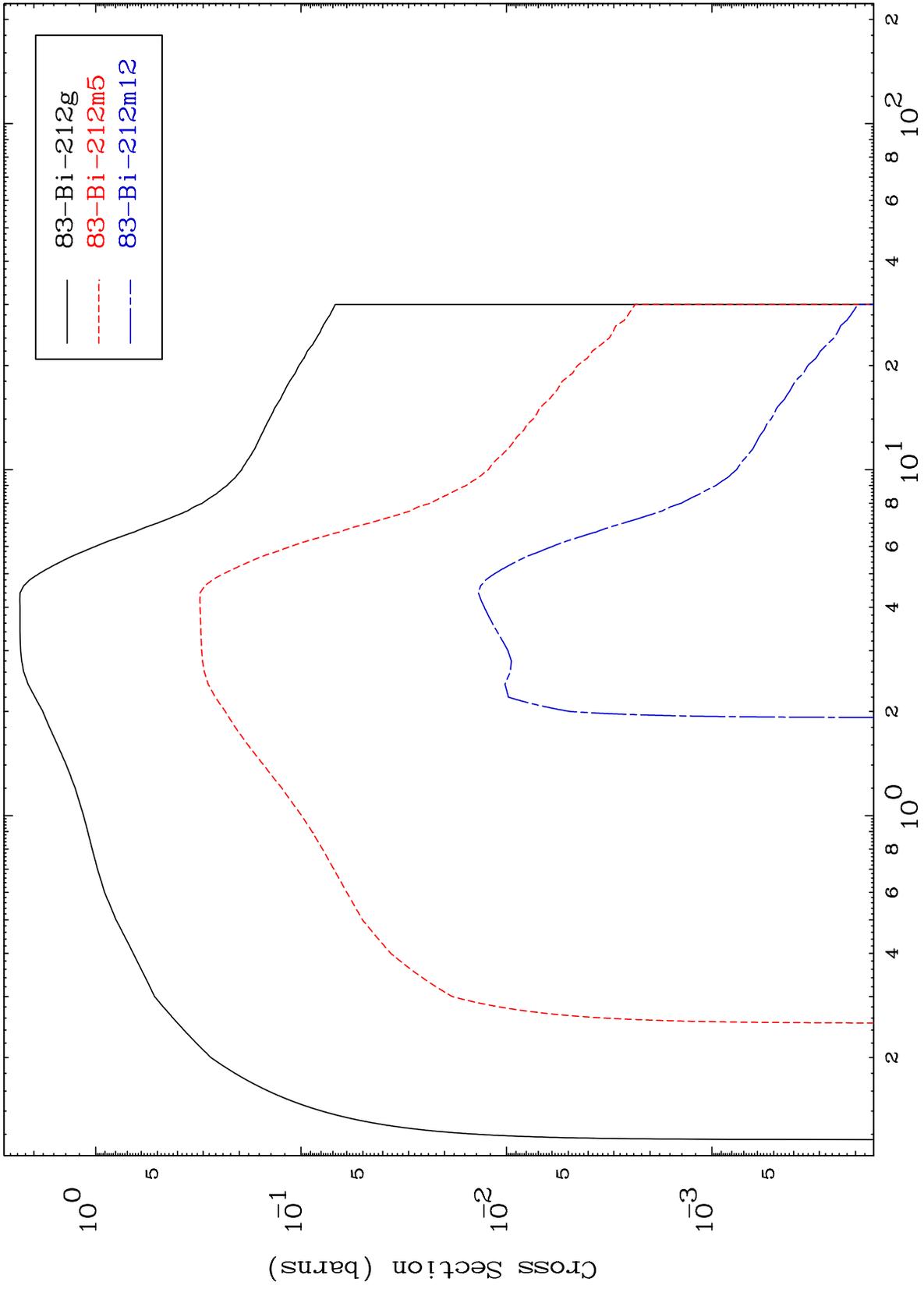
200

83-Bi-212

MAT 8334

# Inelastic Radionuclide Production Cross Section

83-Bi-212



121

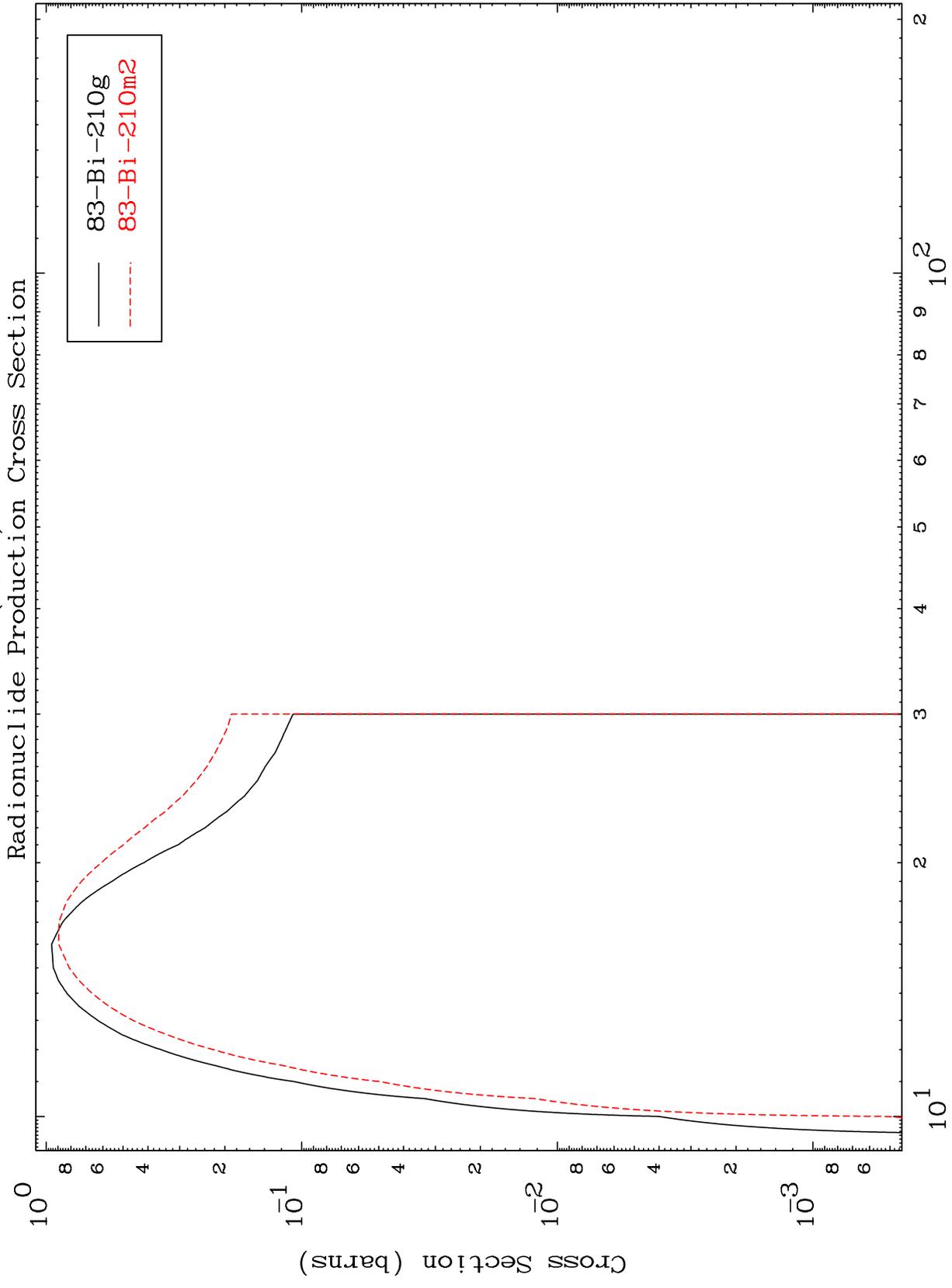
Incident Energy (MeV)

83-Bi-212

MAT 8334

(n,3n)

83-Bi-212



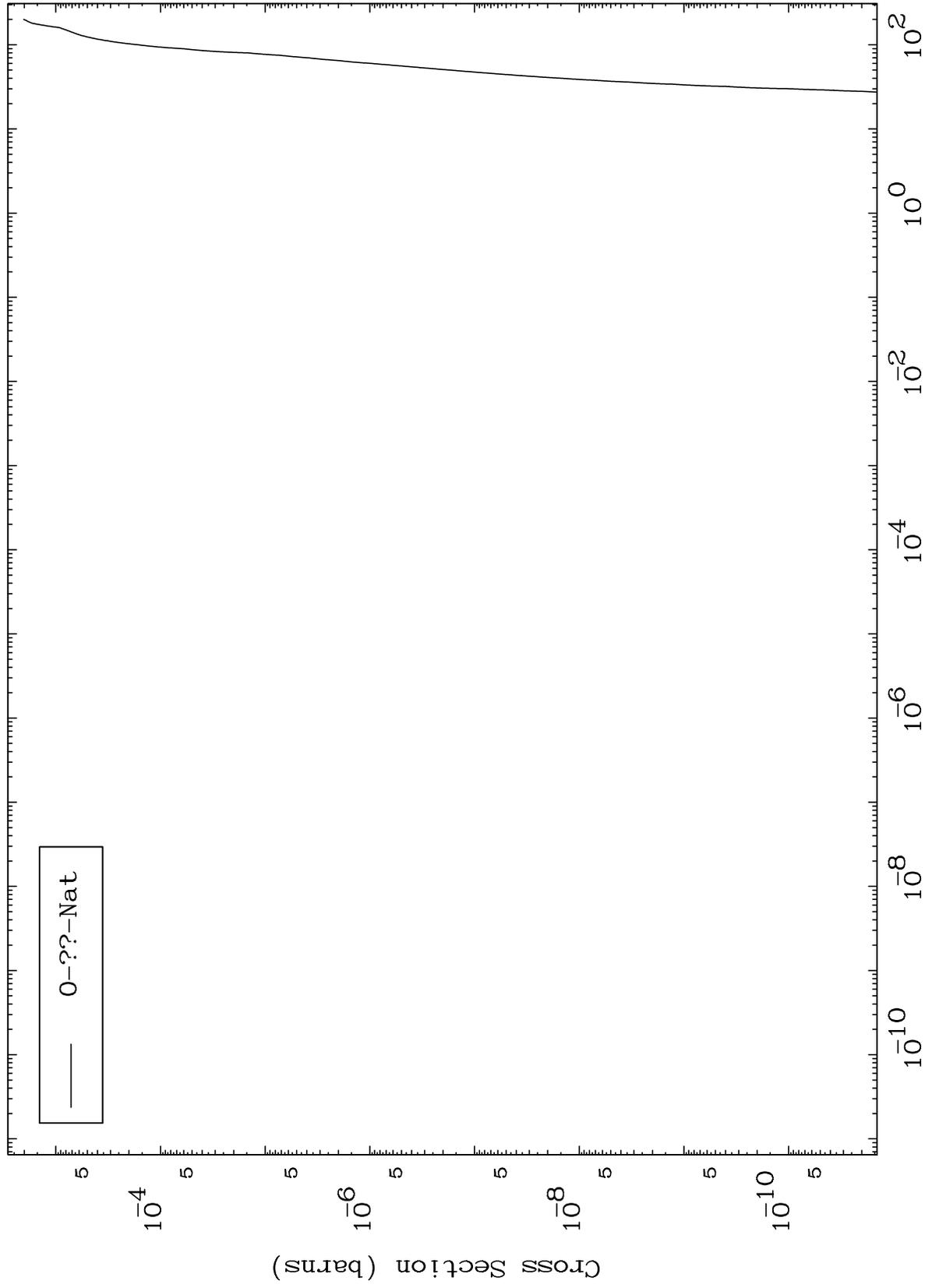
122

83-Bi-212

MAT 8334

Fission  
Radionuclide Production Cross Section

83-Bi-212

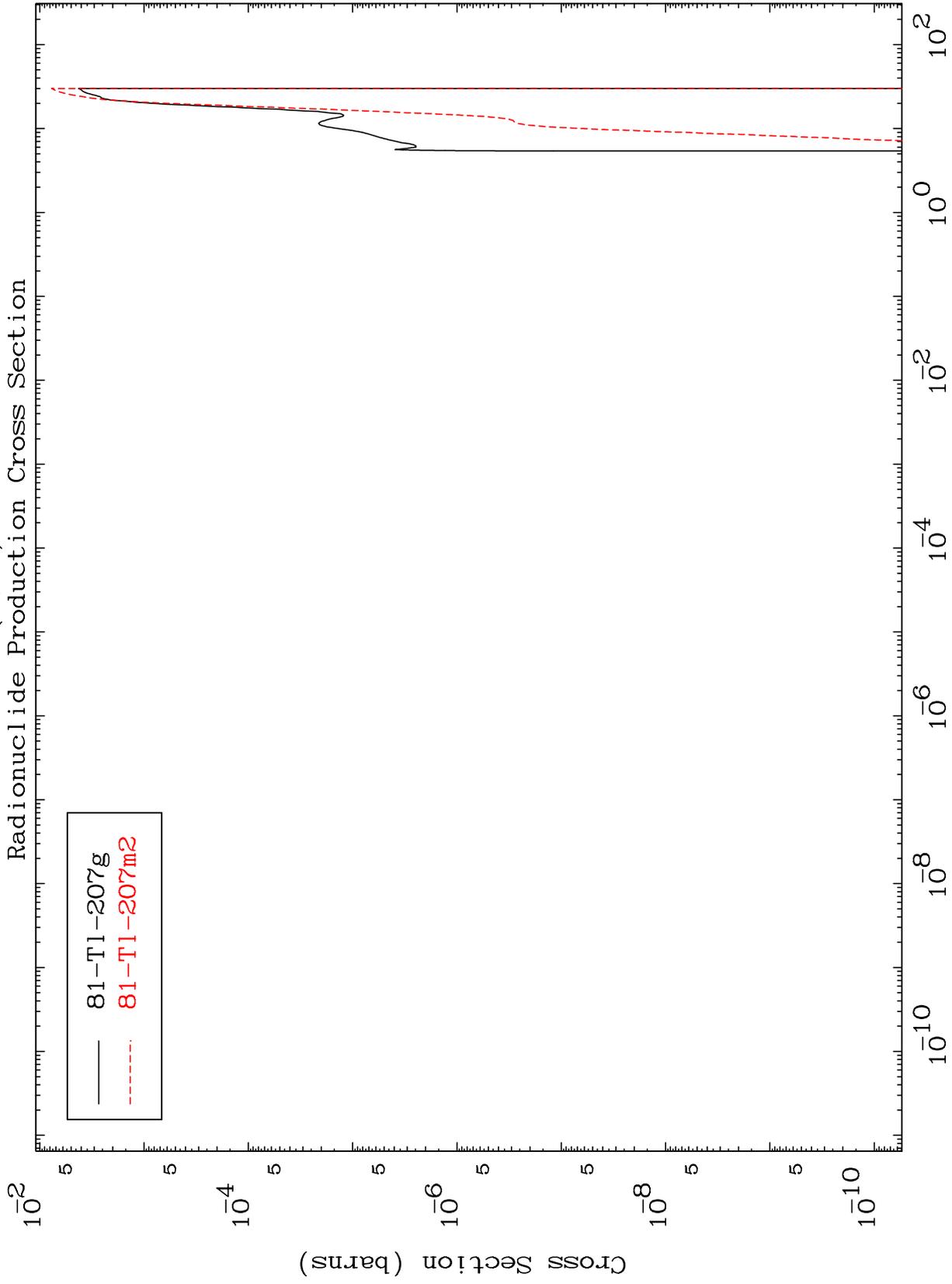


MAT 8334

(n,2n)  $\alpha$

83-Bi-212

Radionuclide Production Cross Section



124

Incident Energy (MeV)

83-Bi-212

