

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

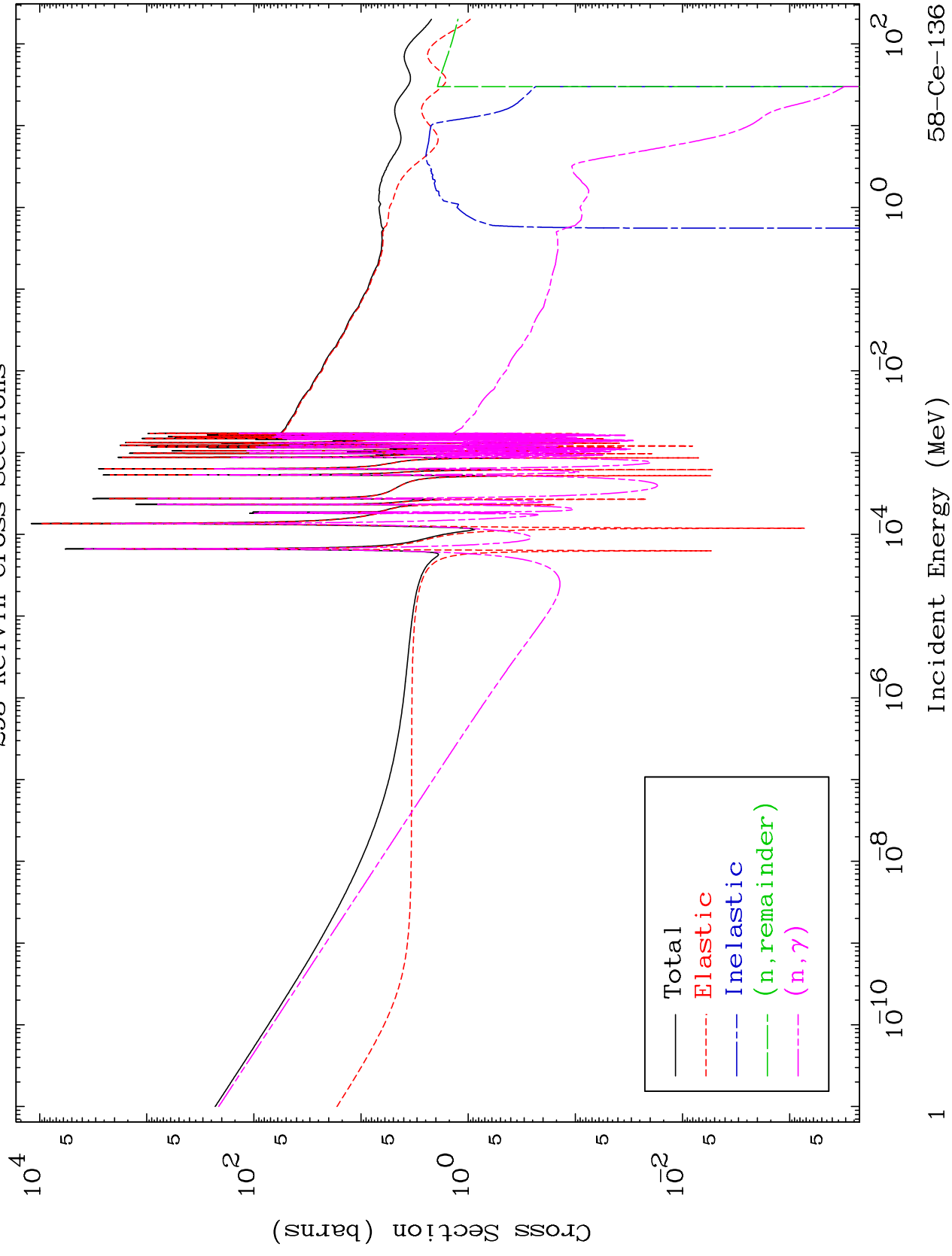
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5825

Major  
293 Kelvin Cross Sections

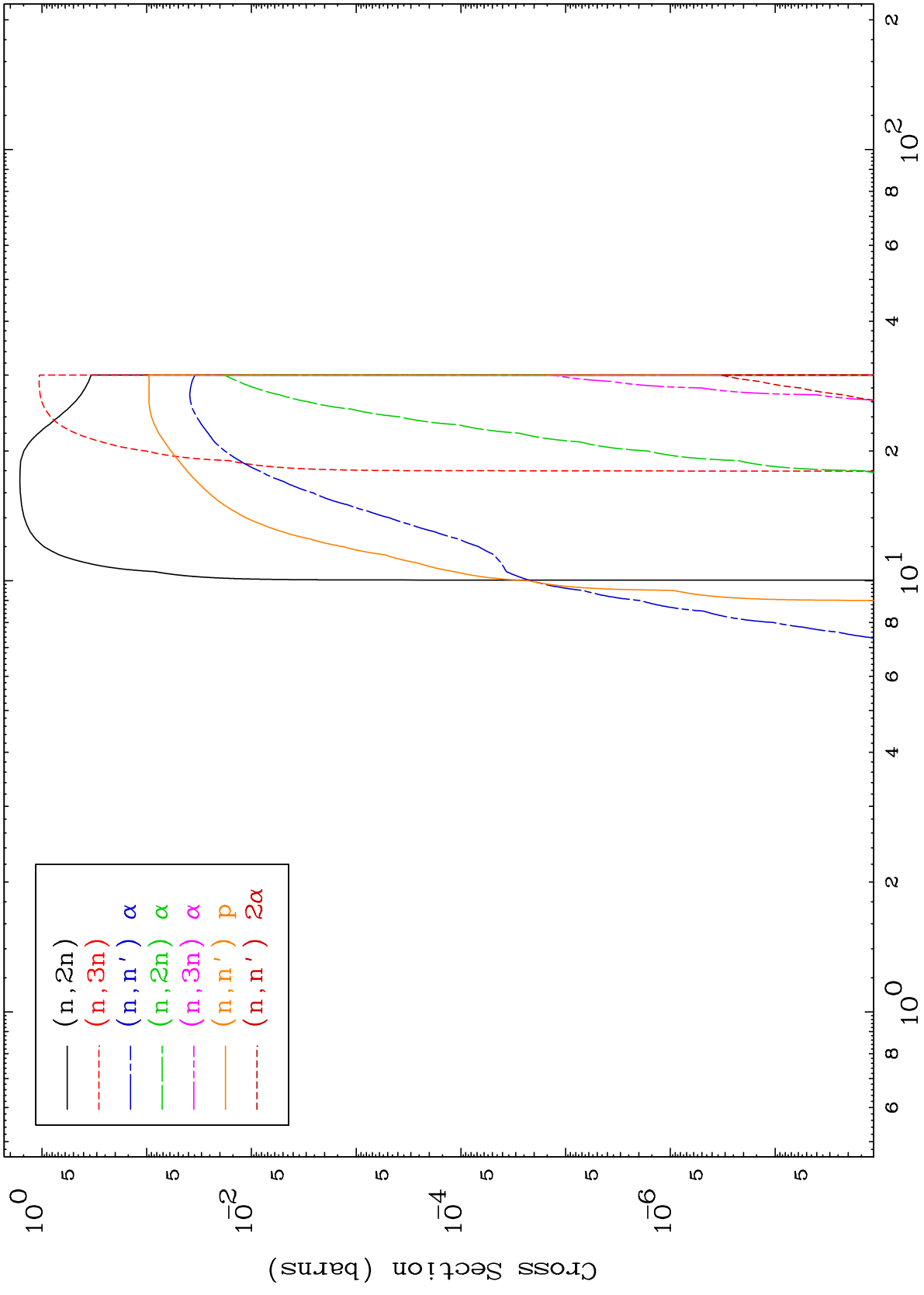
58-Ce-136



MAT 5825

Neutron Production  
293 Kelvin Cross Sections

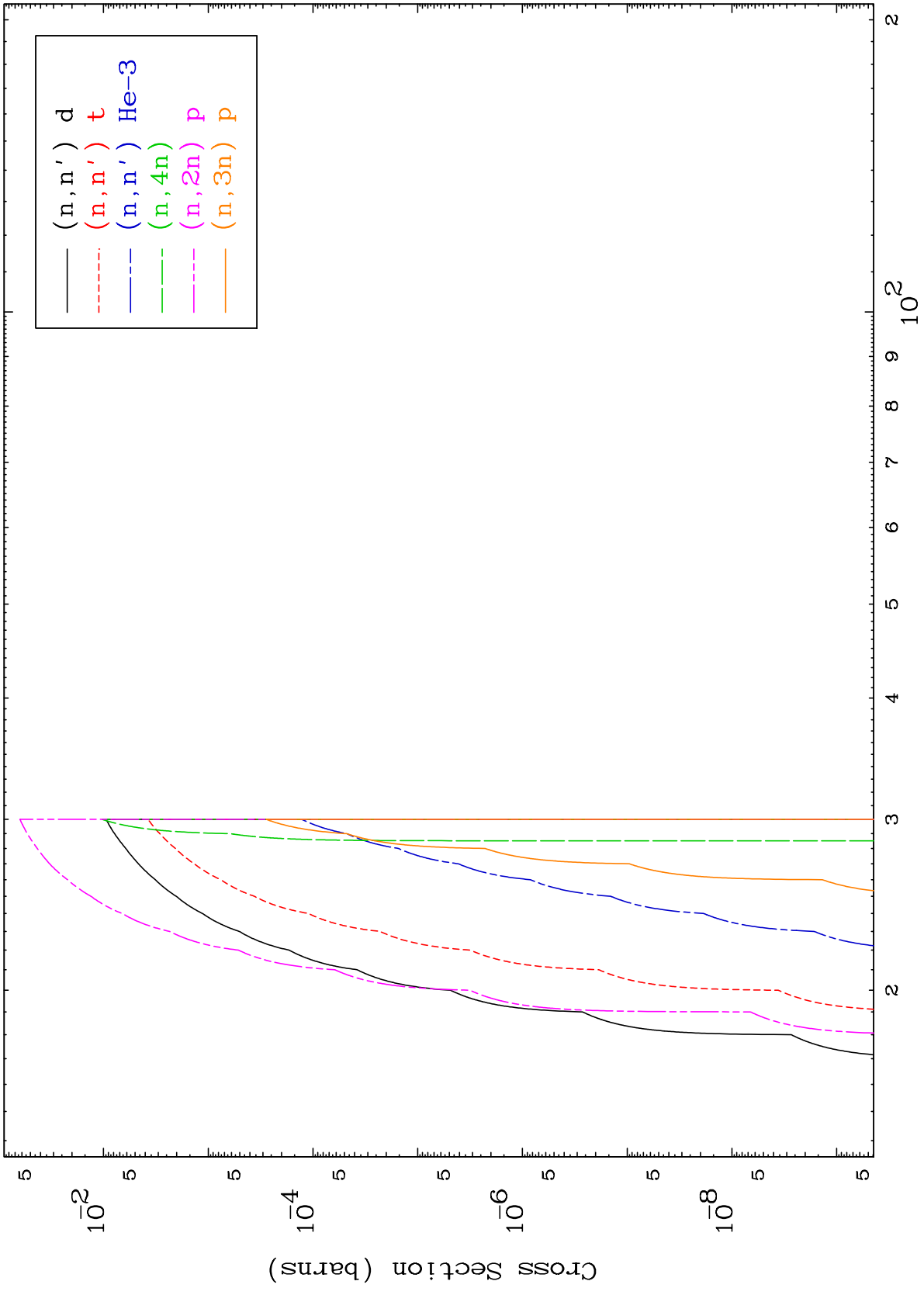
58-Ce-136



2

Incident Energy (MeV)

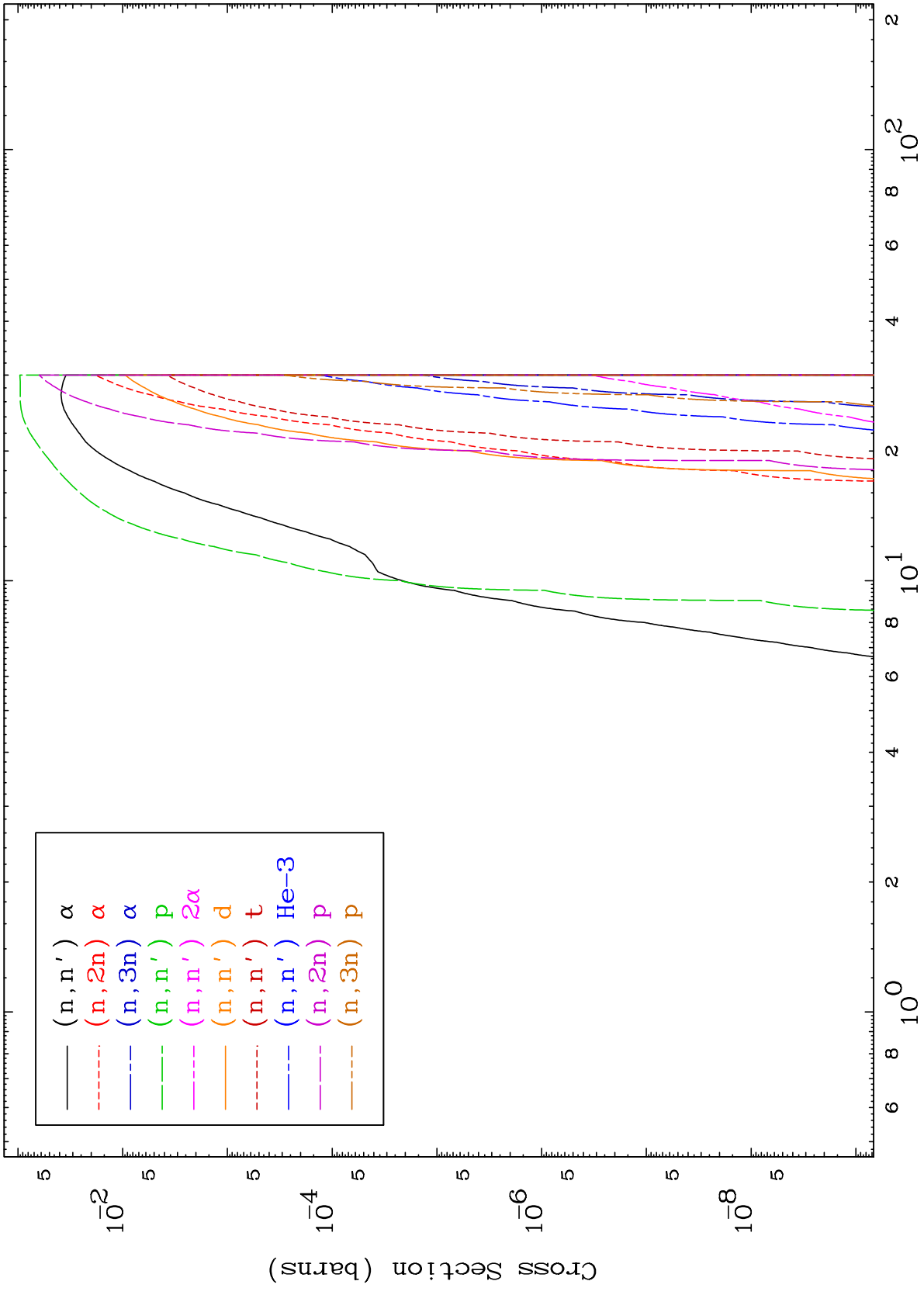
58-Ce-136



MAT 5825

293 Kelvin Cross Sections

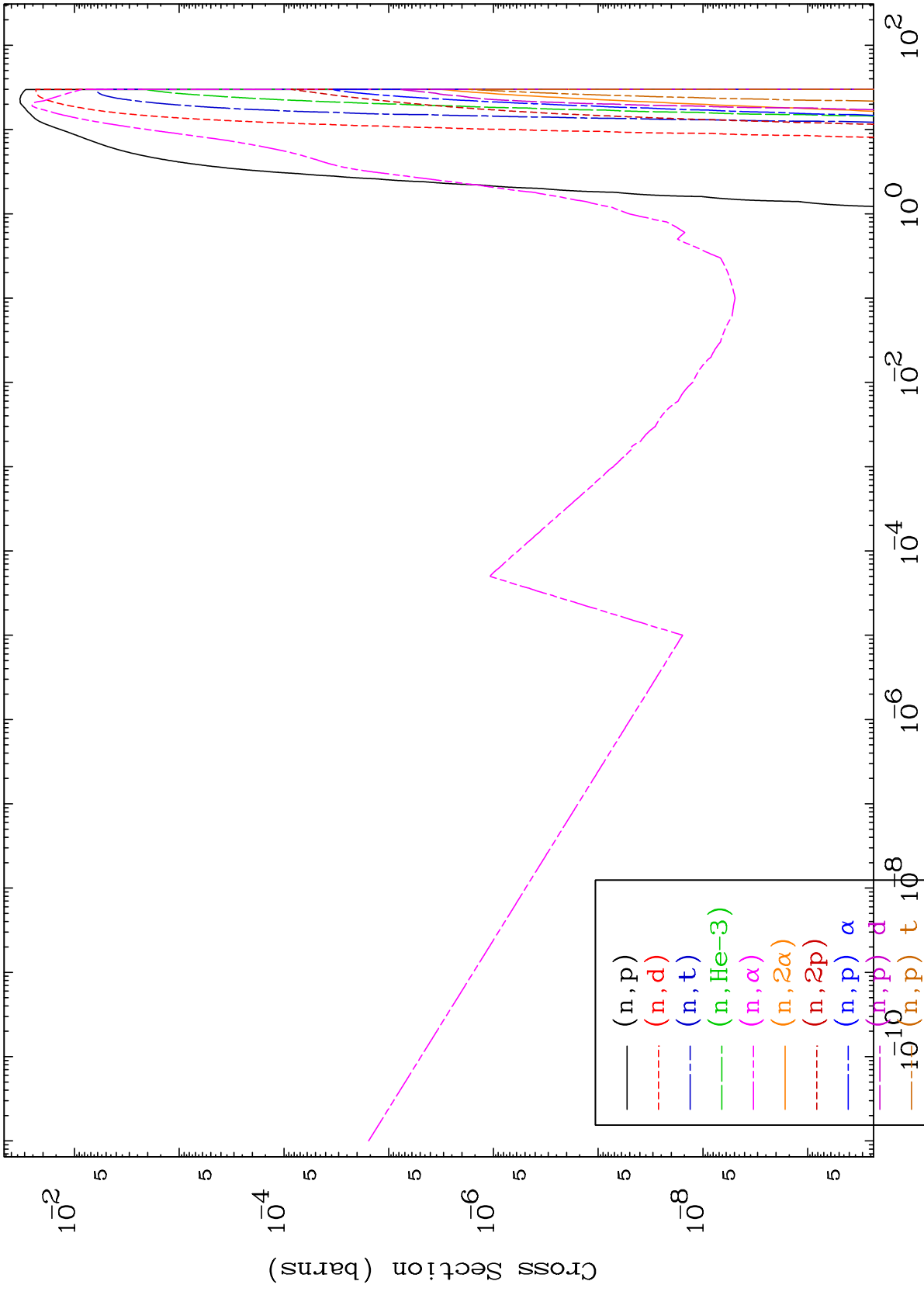
58-Ce-136



MAT 5825

293 Kelvin Cross Sections  
Charged Particle

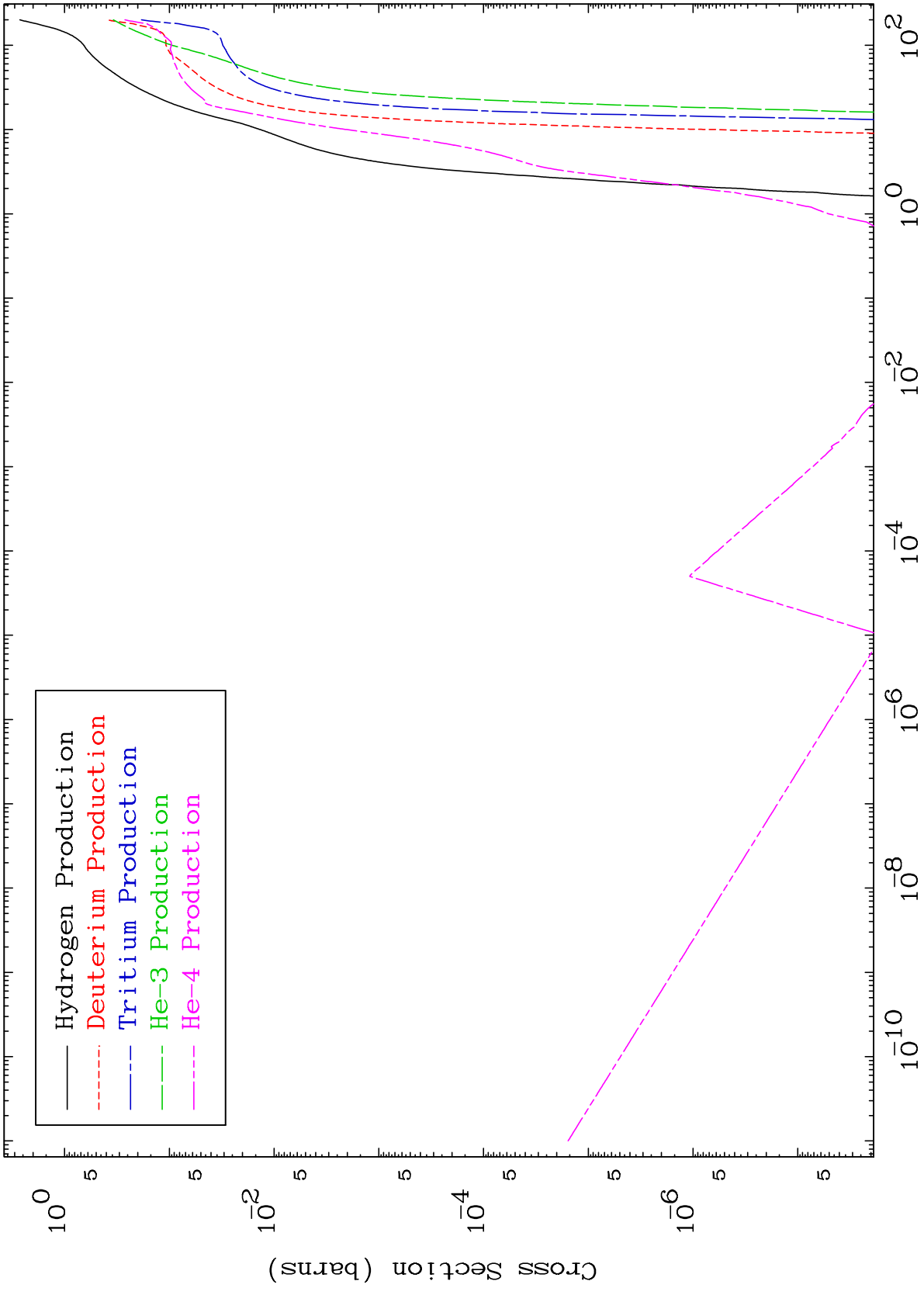
58-Ce-136



58-Ce-136

Incident Energy (MeV)

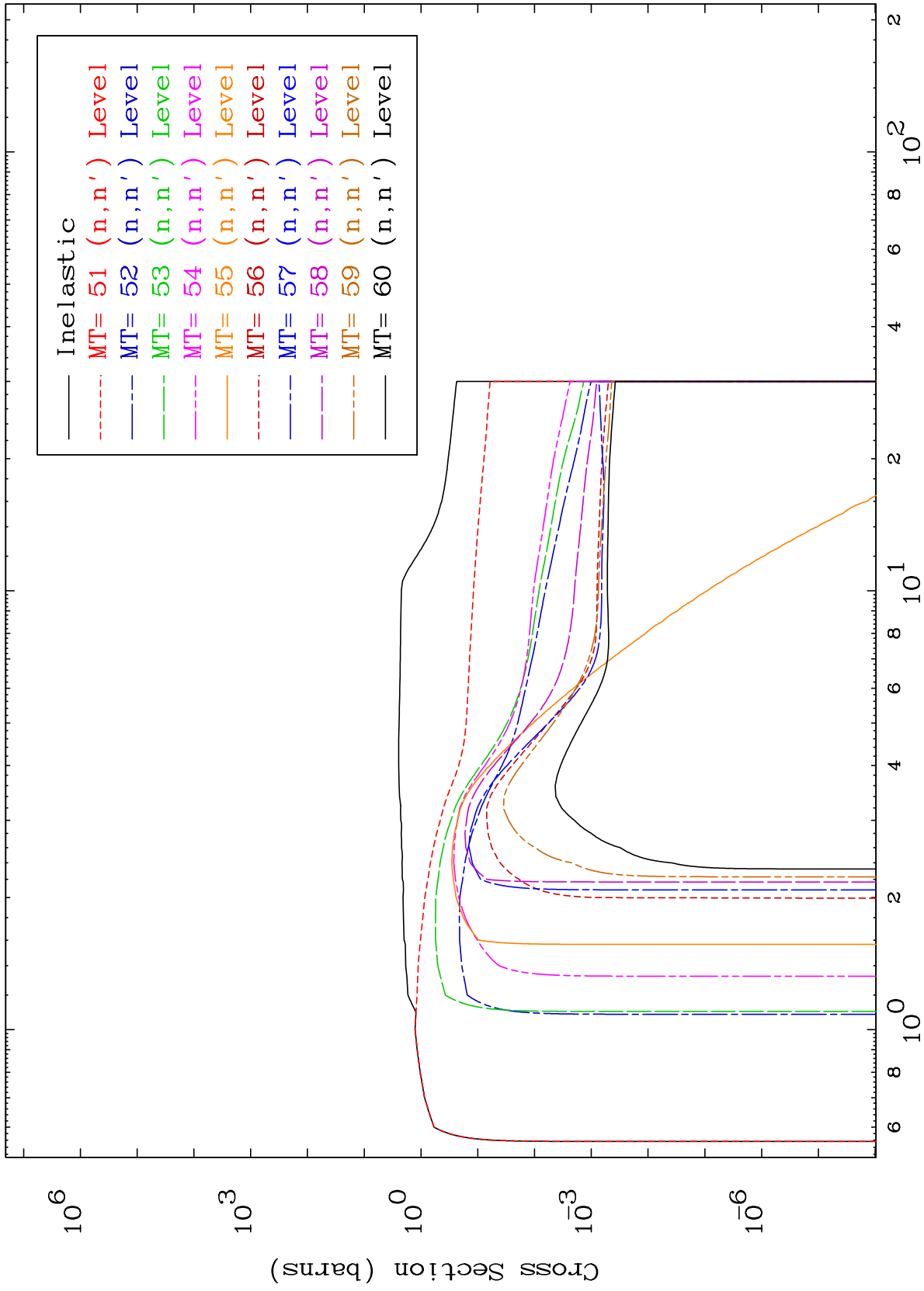
5



MAT 5825

(n,n') Level  
293 Kelvin Cross Sections

58-Ce-136



7

Incident Energy (MeV)

58-Ce-136

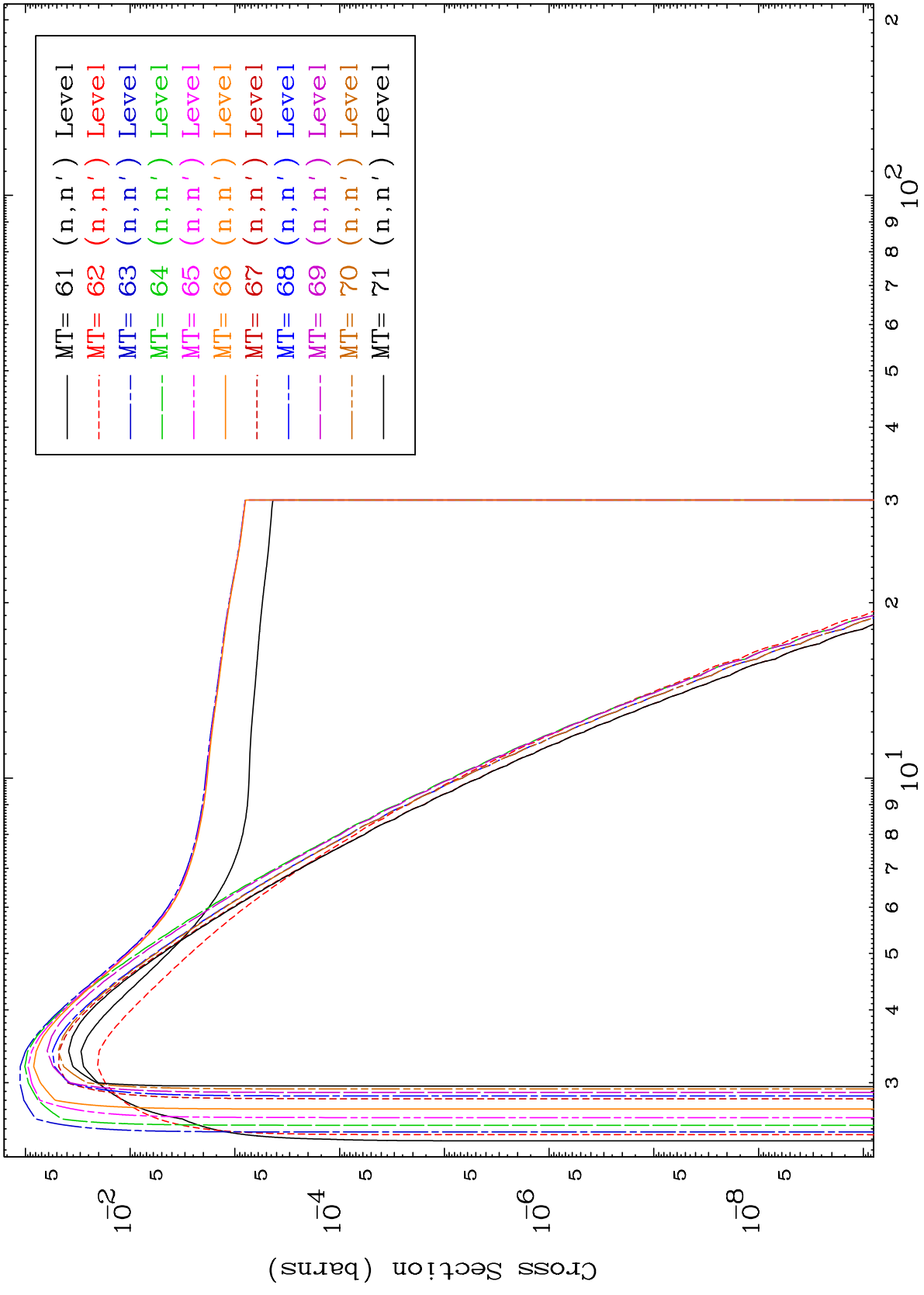


MAT 5825

(n,n') Level

58-Ce-136

293 Kelvin Cross Sections



8

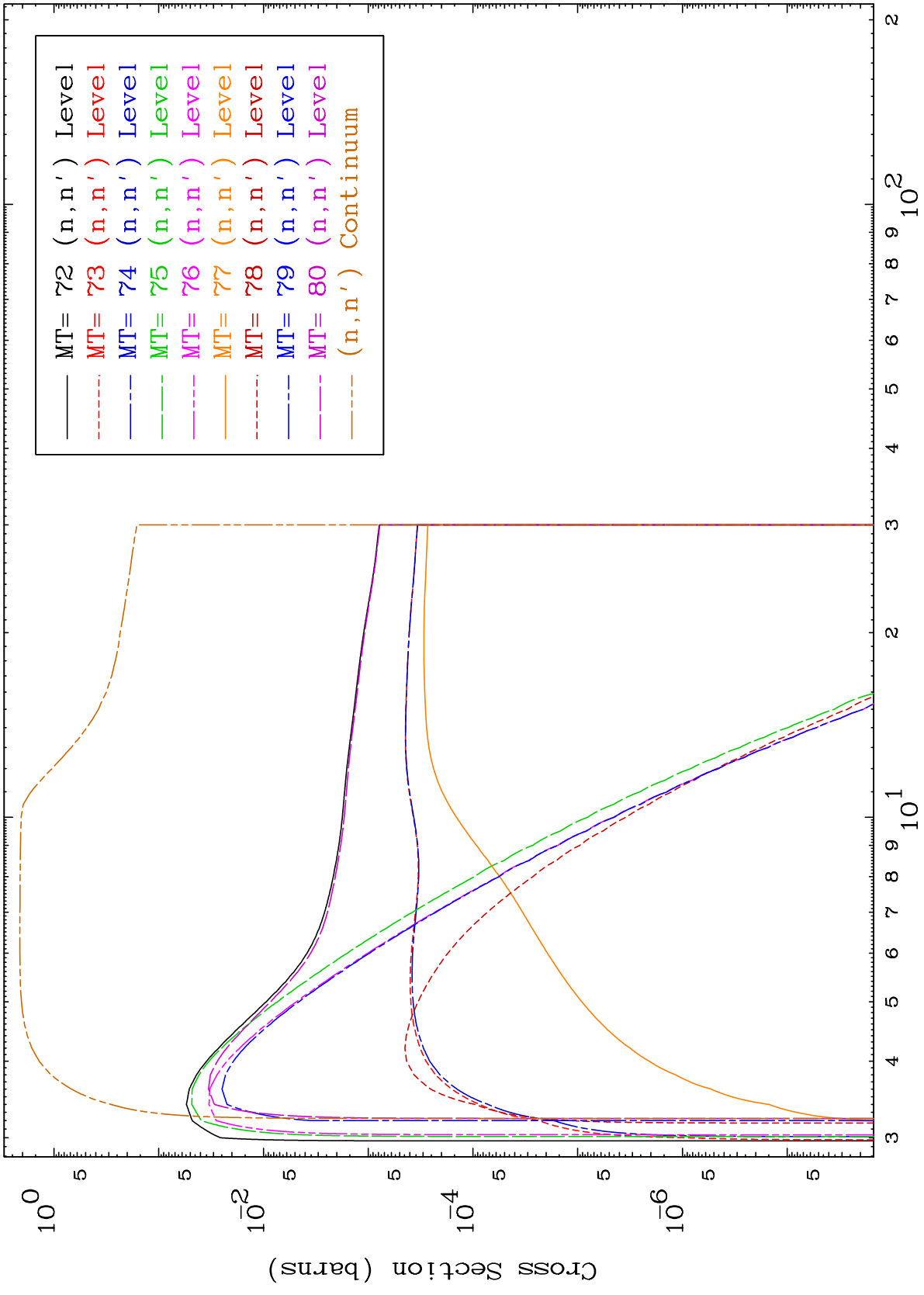
Incident Energy (MeV)

58-Ce-136

MAT 5825

(n,n') Level  
293 Kelvin Cross Sections

58-Ce-136



9

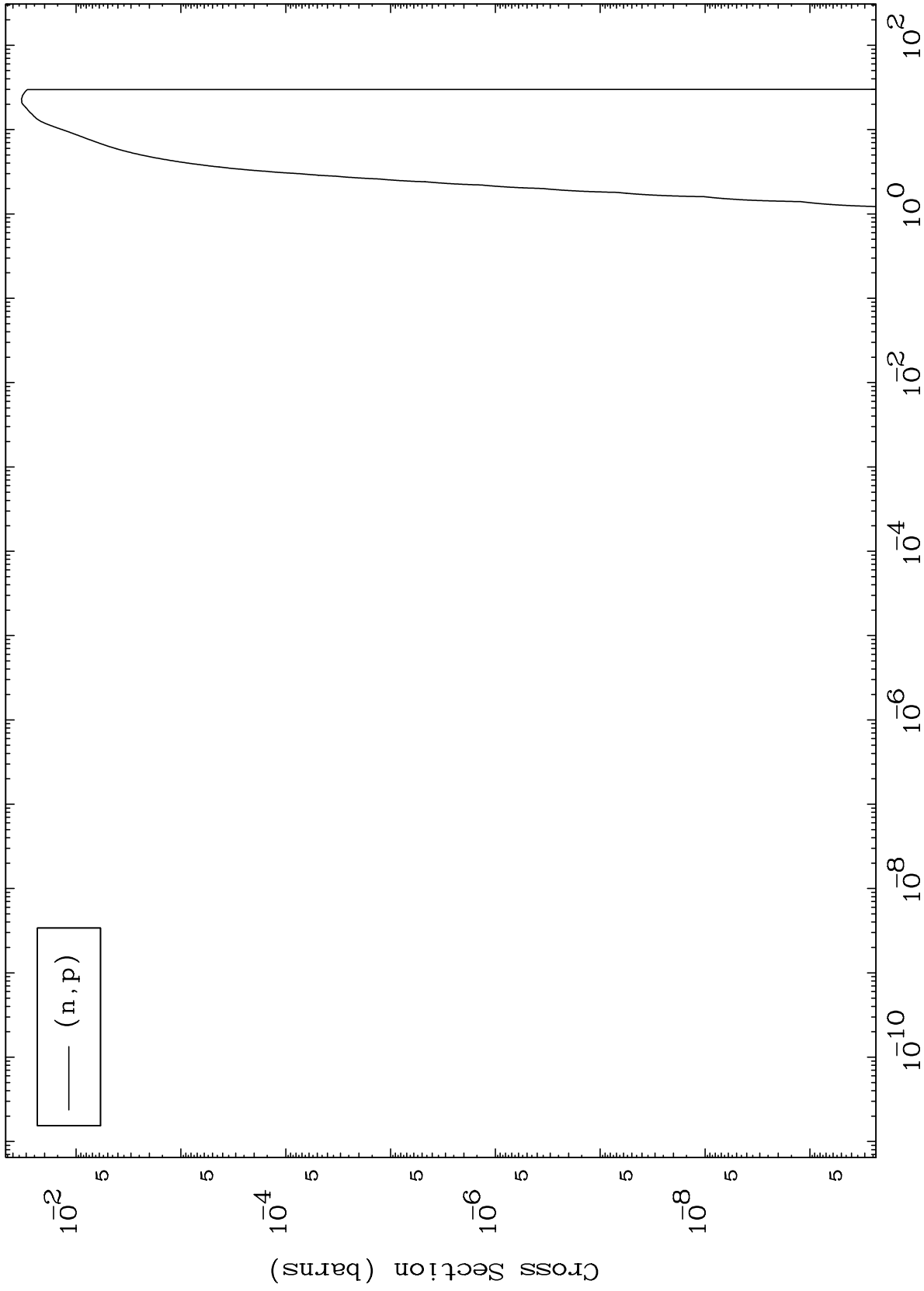
Incident Energy (MeV)

58-Ce-136

MAT 5825

(n,p) Levels  
293 Kelvin Cross Sections

58-Ce-136



10

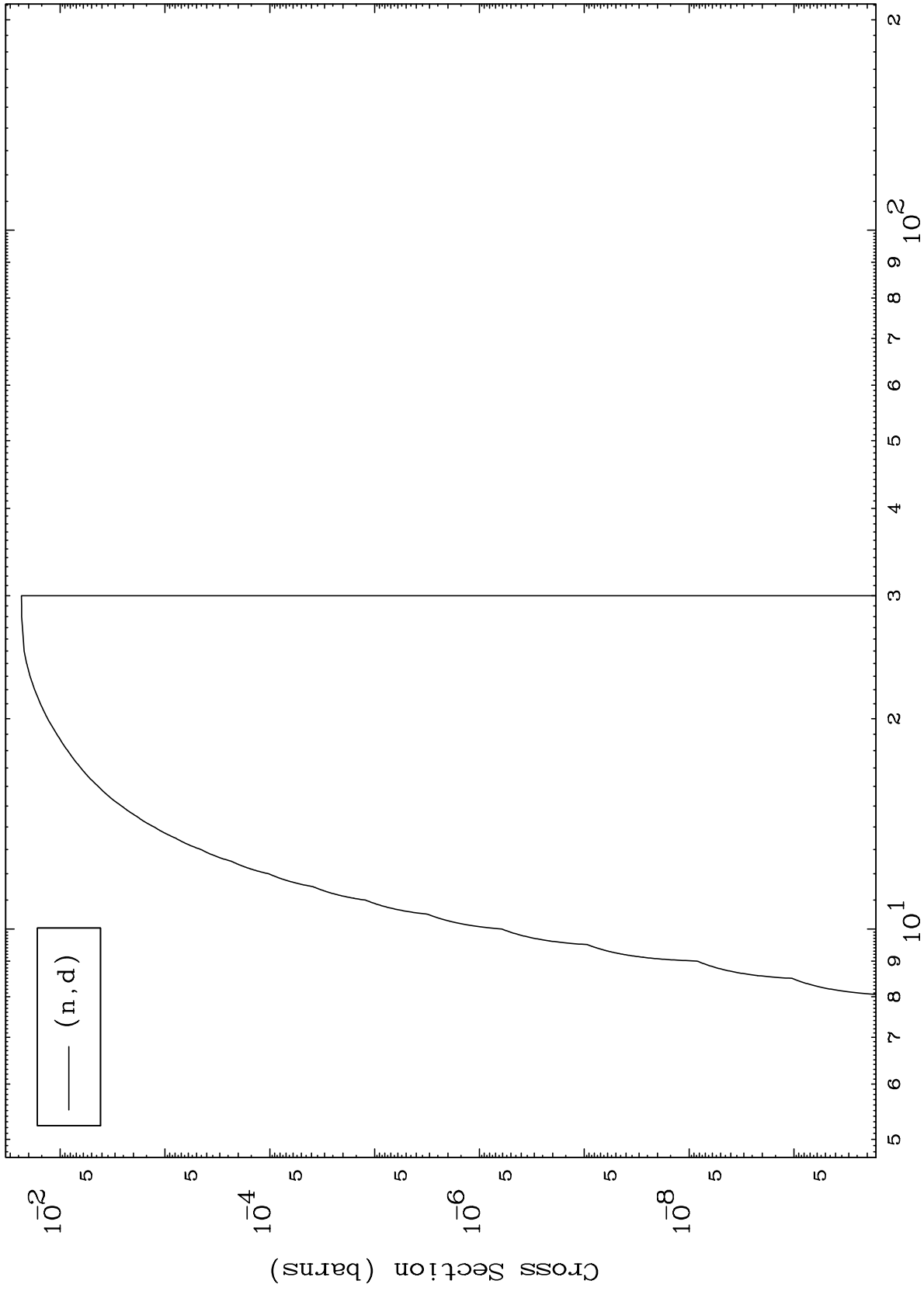
Incident Energy (MeV)

58-Ce-136

MAT 5825

(n,d) Levels  
293 Kelvin Cross Sections

58-Ce-136



11

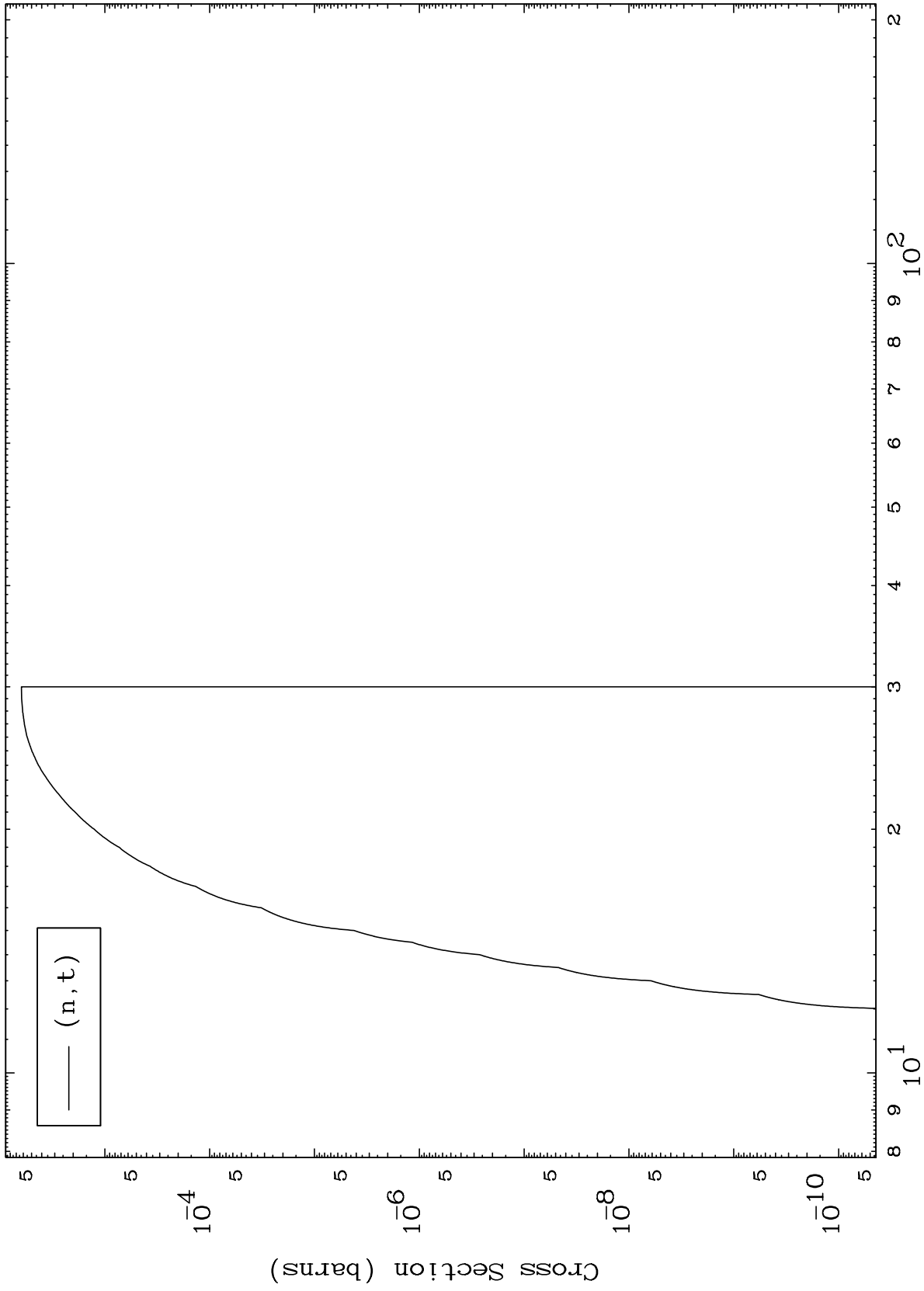
Incident Energy (MeV)

58-Ce-136

MAT 5825

(n,t) Levels  
293 Kelvin Cross Sections

58-Ce-136



12

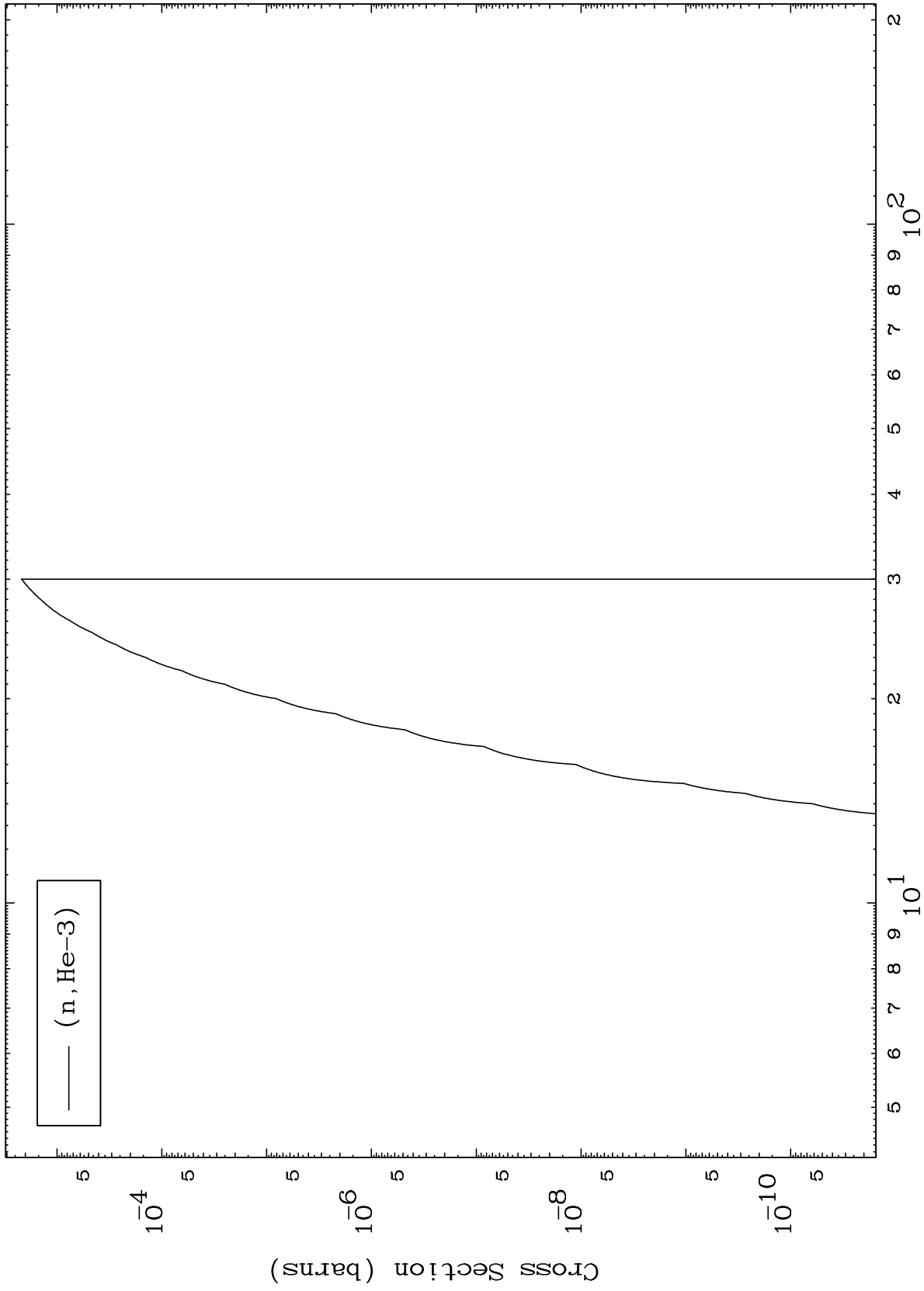
Incident Energy (MeV)

58-Ce-136

MAT 5825

(n,He3) Levels  
293 Kelvin Cross Sections

58-Ce-136



13

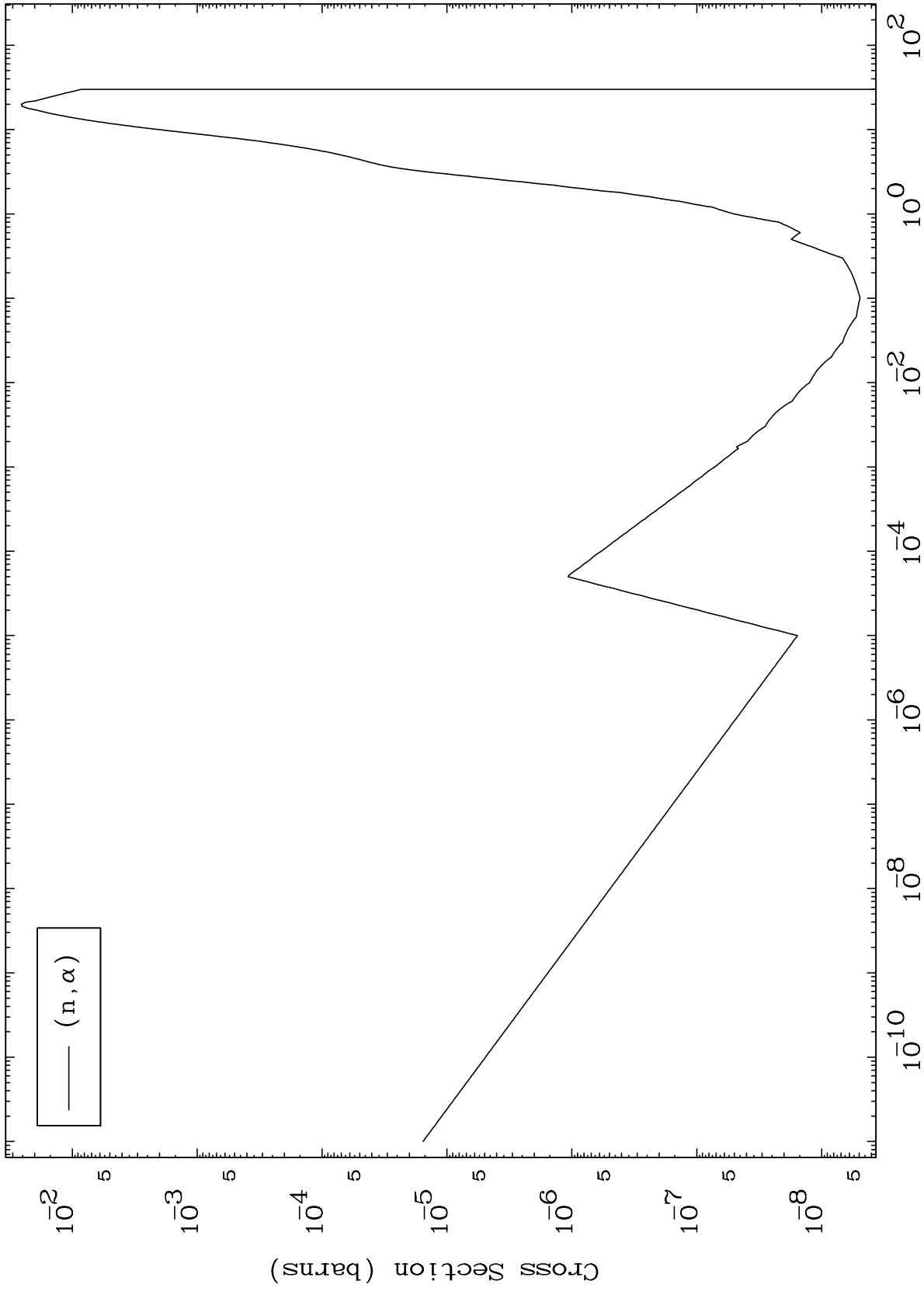
Incident Energy (MeV)

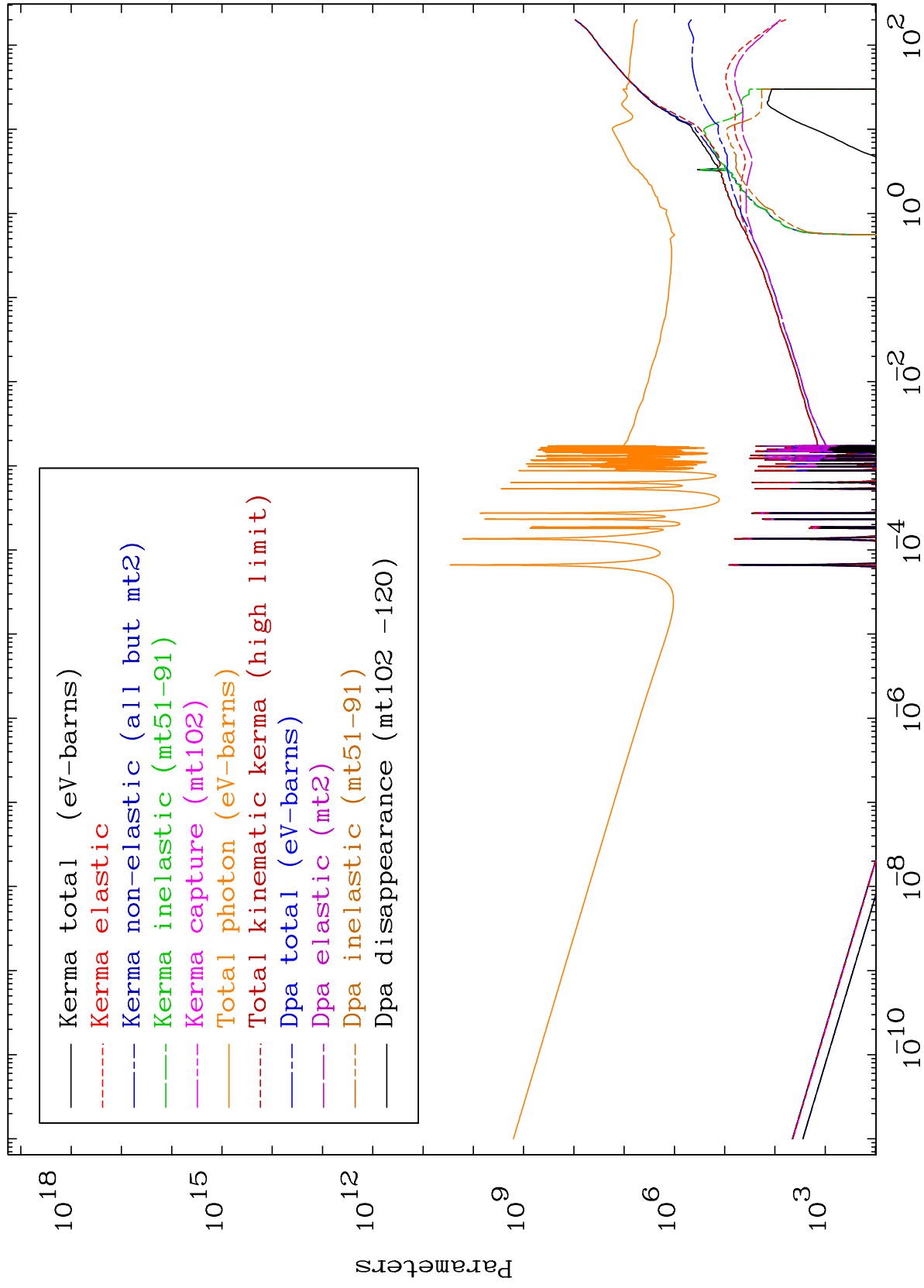
58-Ce-136

MAT 5825

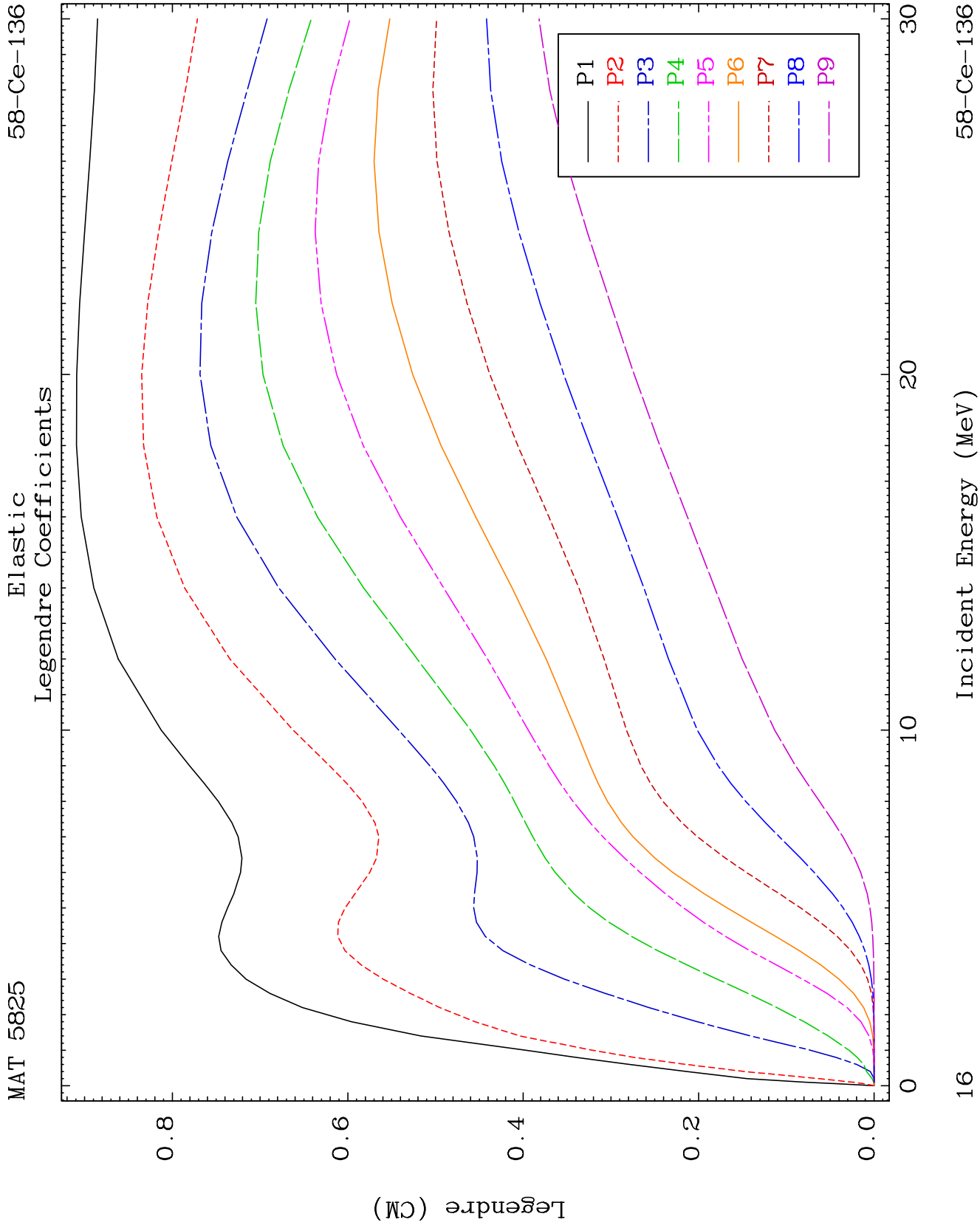
(n,α) Levels  
293 Kelvin Cross Sections

58-Ce-136





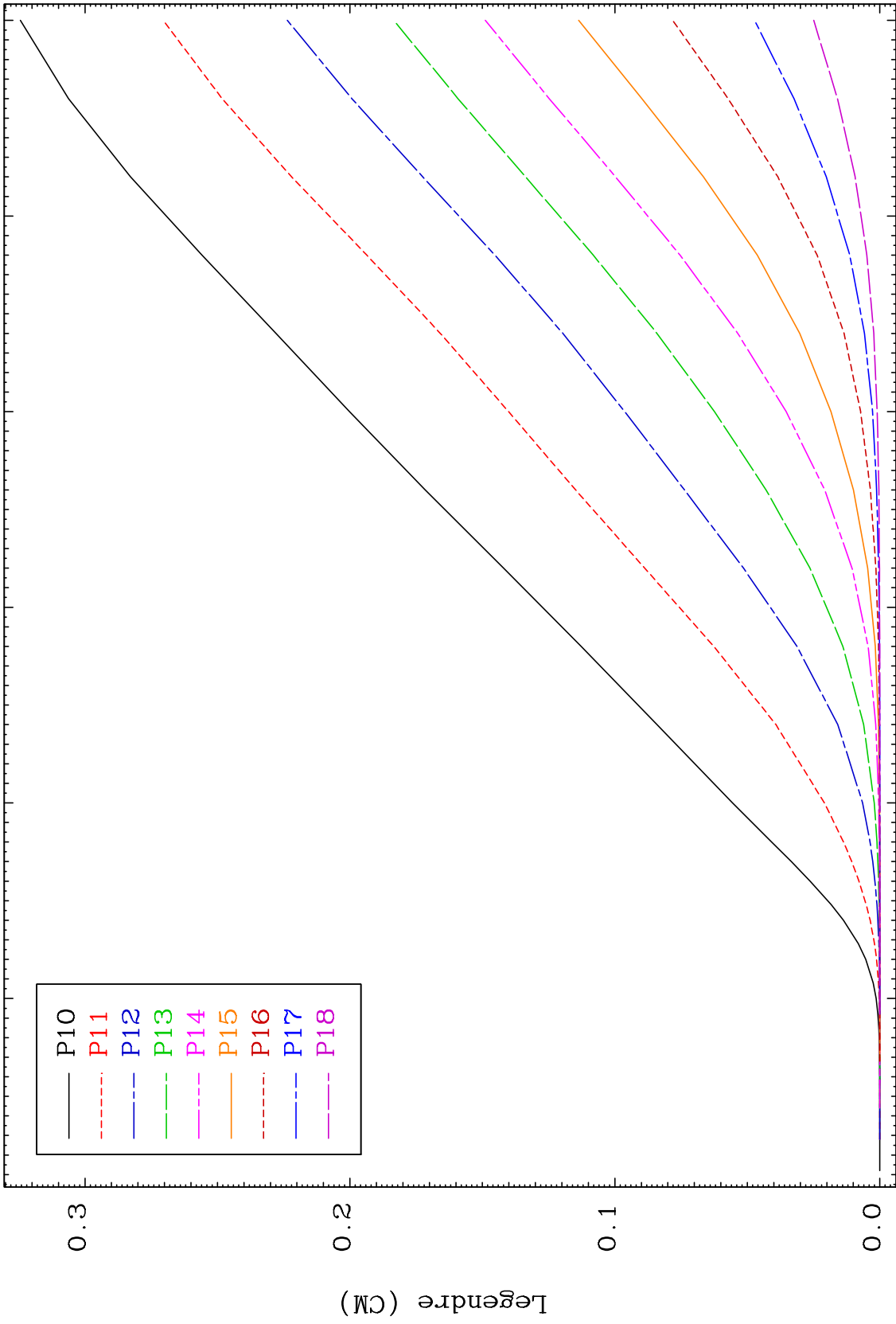




MAT 5825

Elastic Legendre Coefficients

58-Ce-136



17

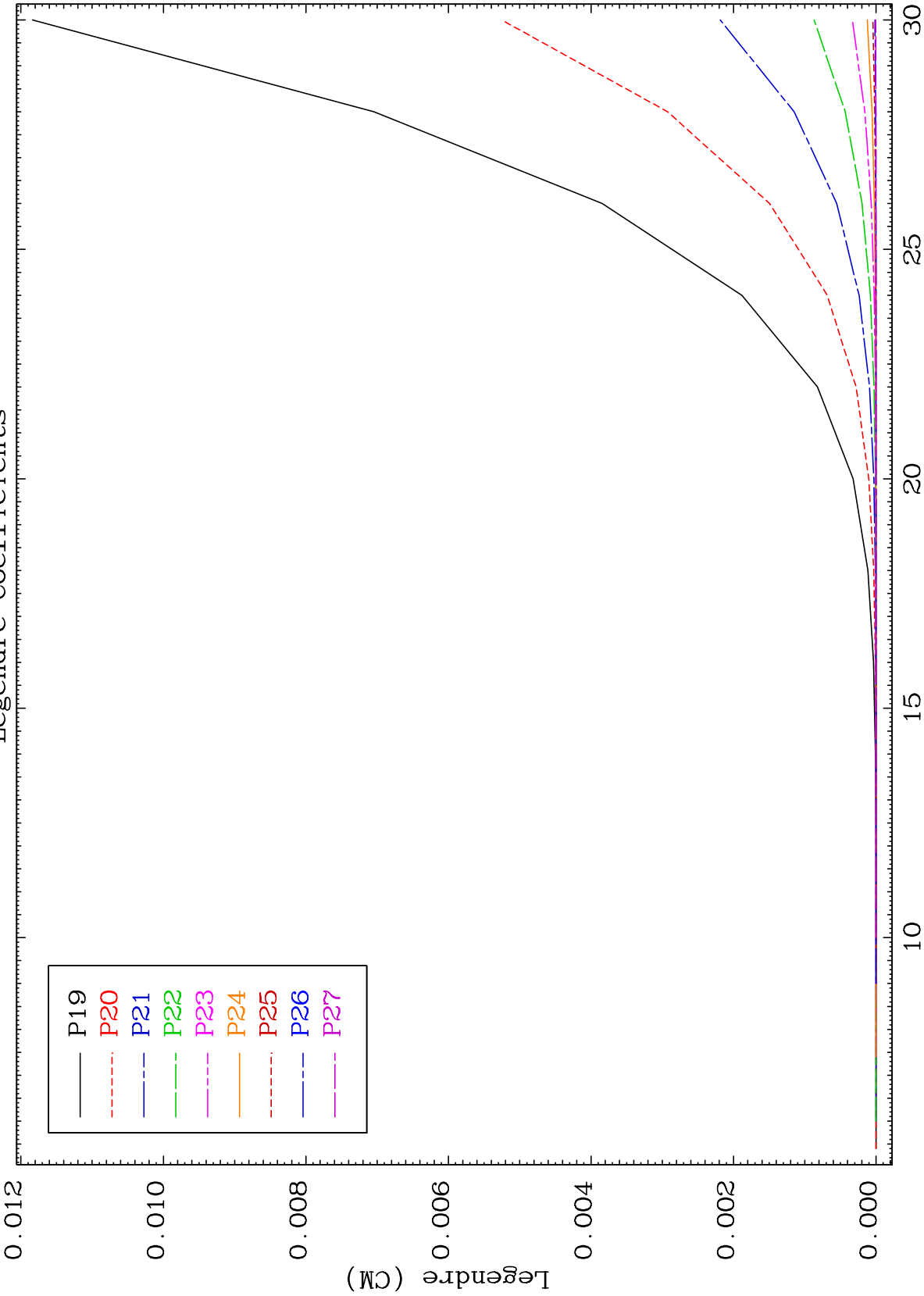
Incident Energy (MeV)

58-Ce-136

MAT 5825

Elastic Legendre Coefficients

58-Ce-136



18

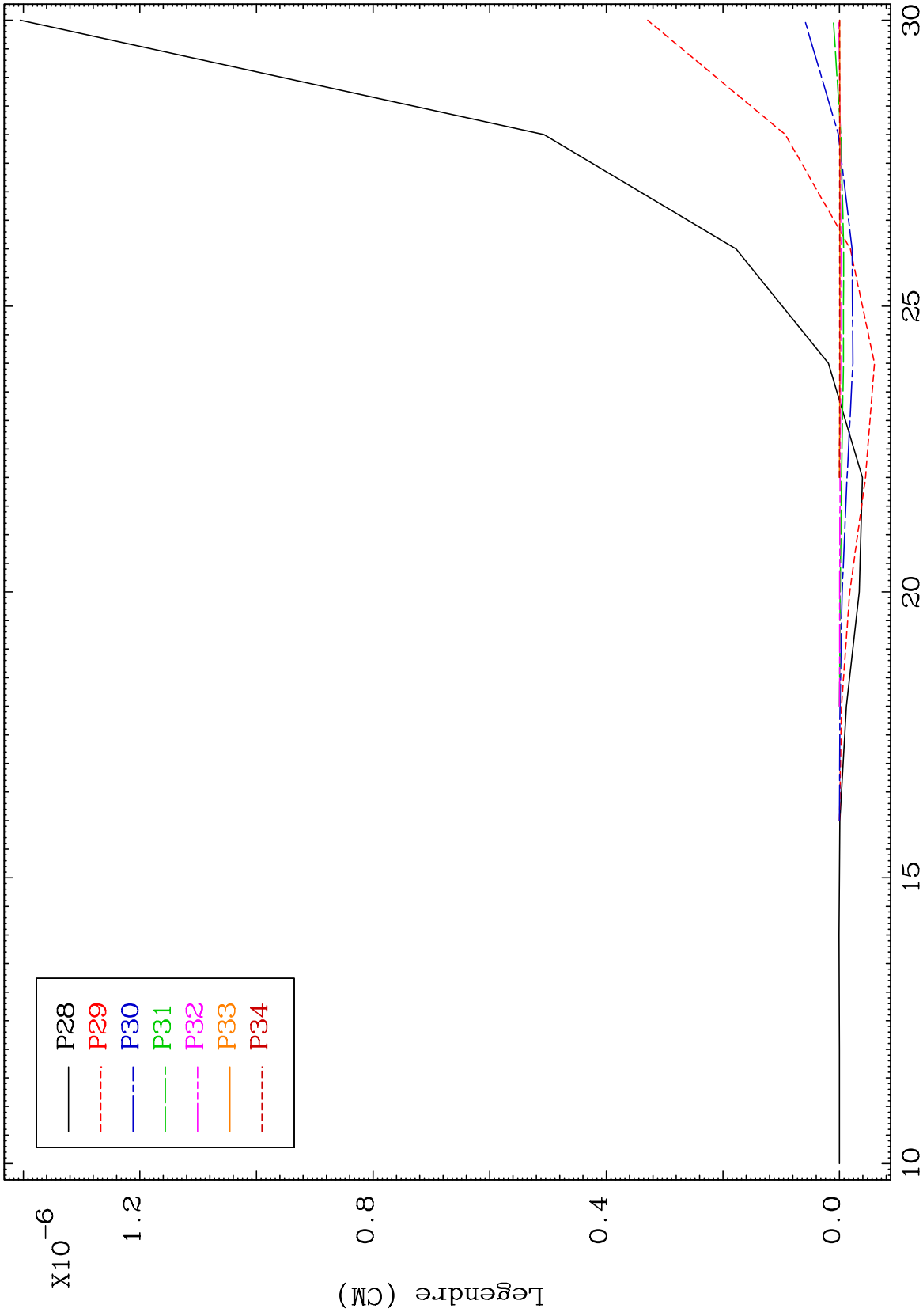
Incident Energy (MeV)

58-Ce-136

MAT 5825

Elastic Legendre Coefficients

58-Ce-136



19

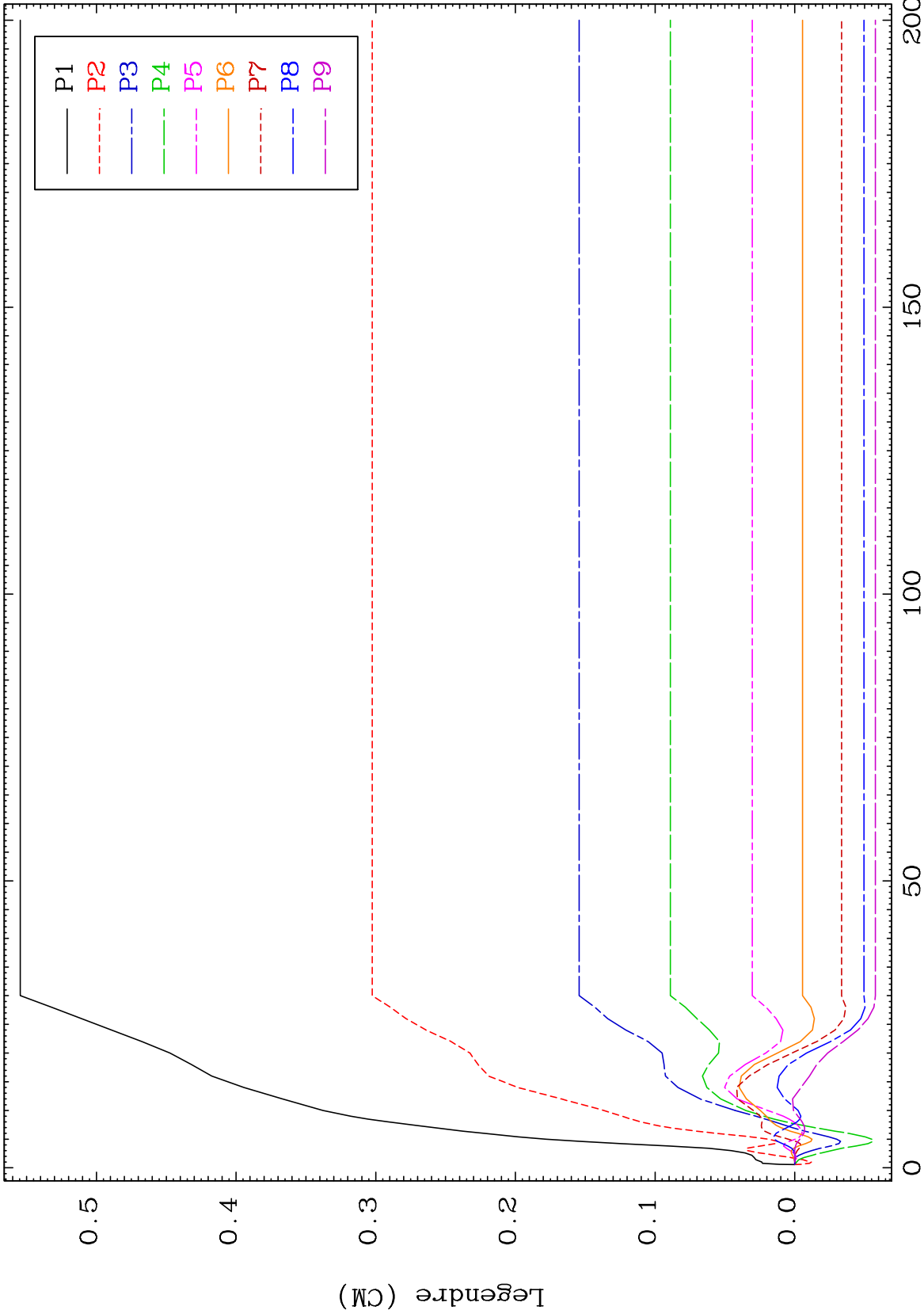
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



58-Ce-136

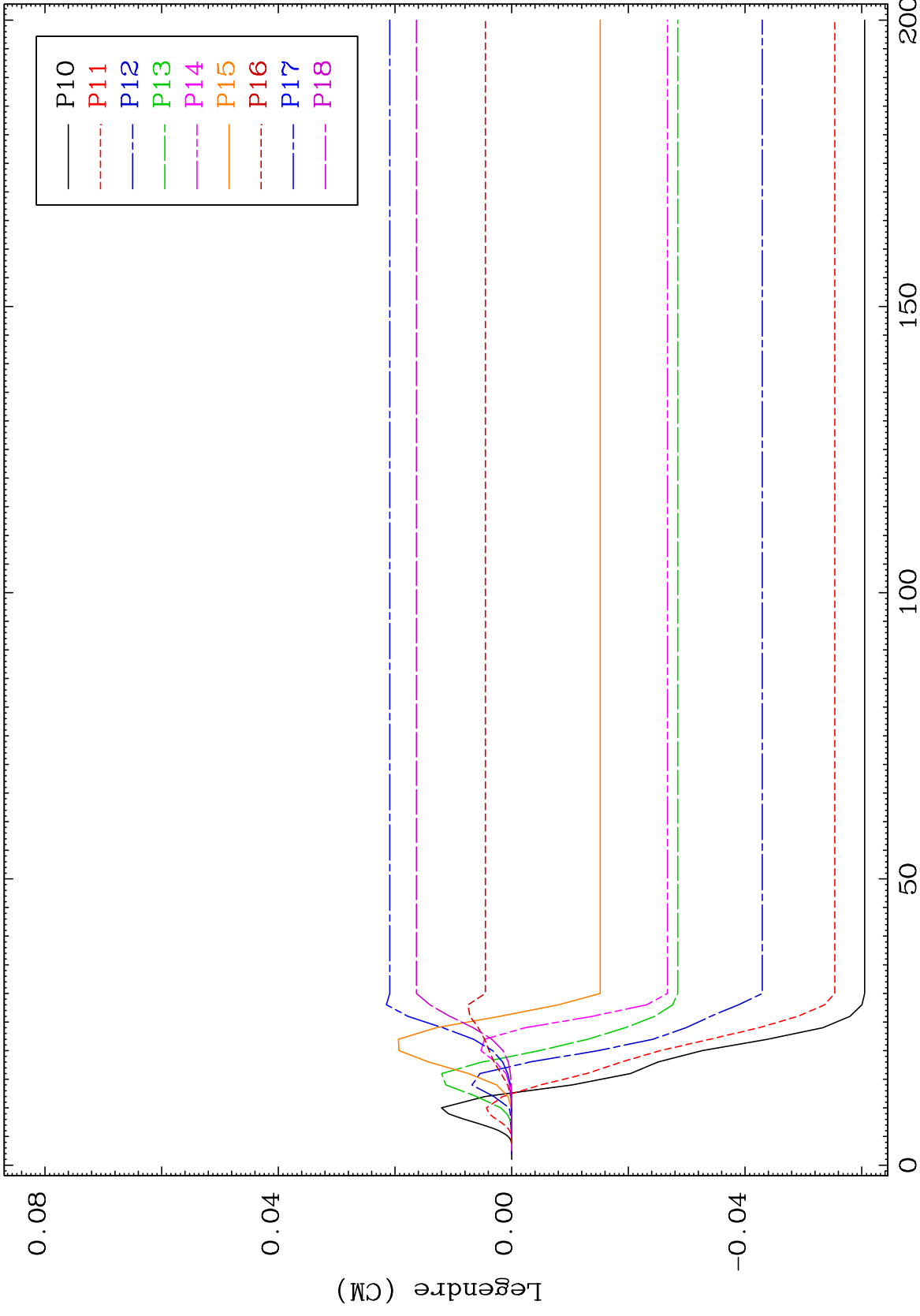
Incident Energy (MeV)

20

MAT 5825

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

58-Ce-136



21

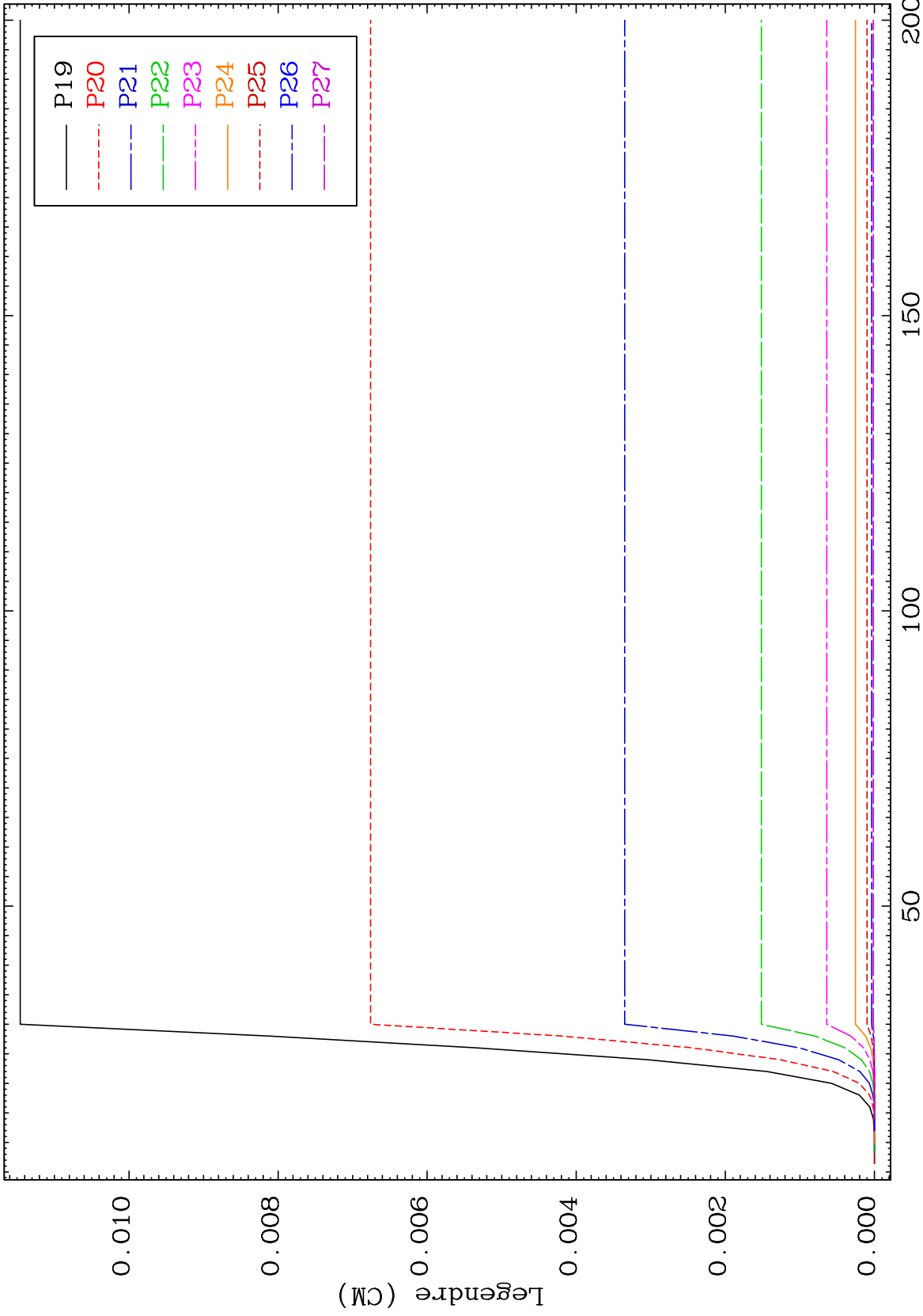
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



22

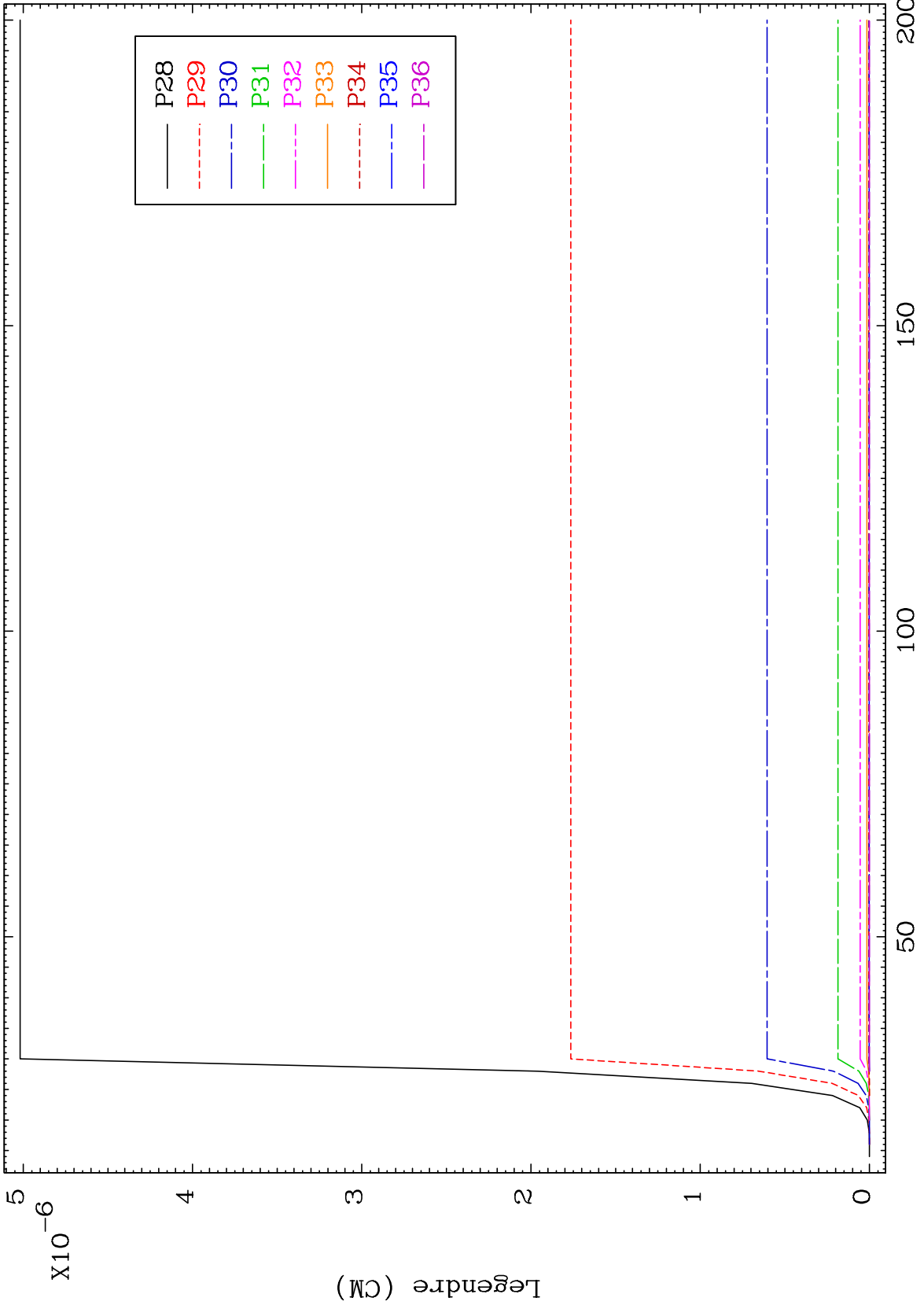
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



23

Incident Energy (MeV)

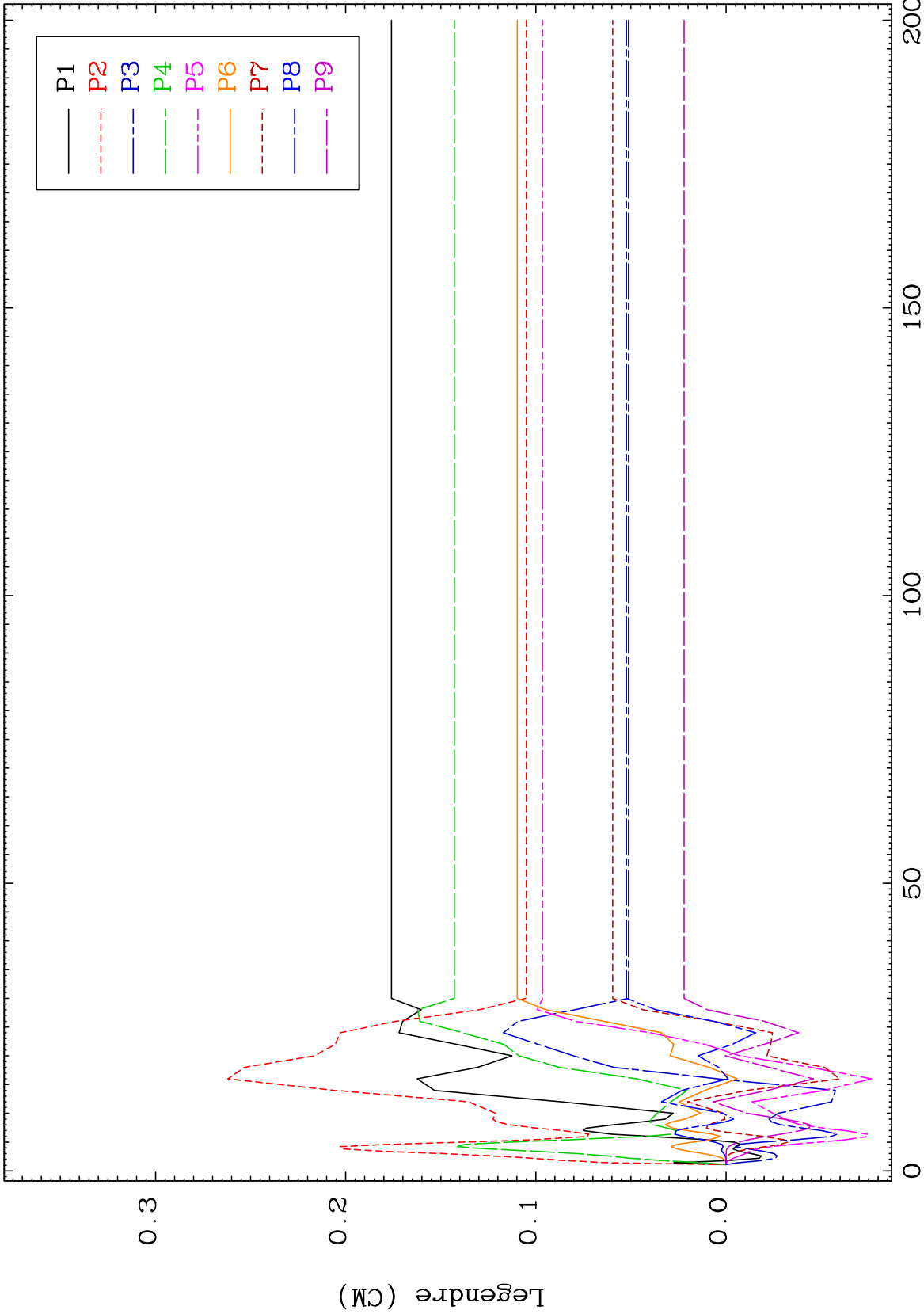
58-Ce-136



MAT 5825

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

58-Ce-136



24

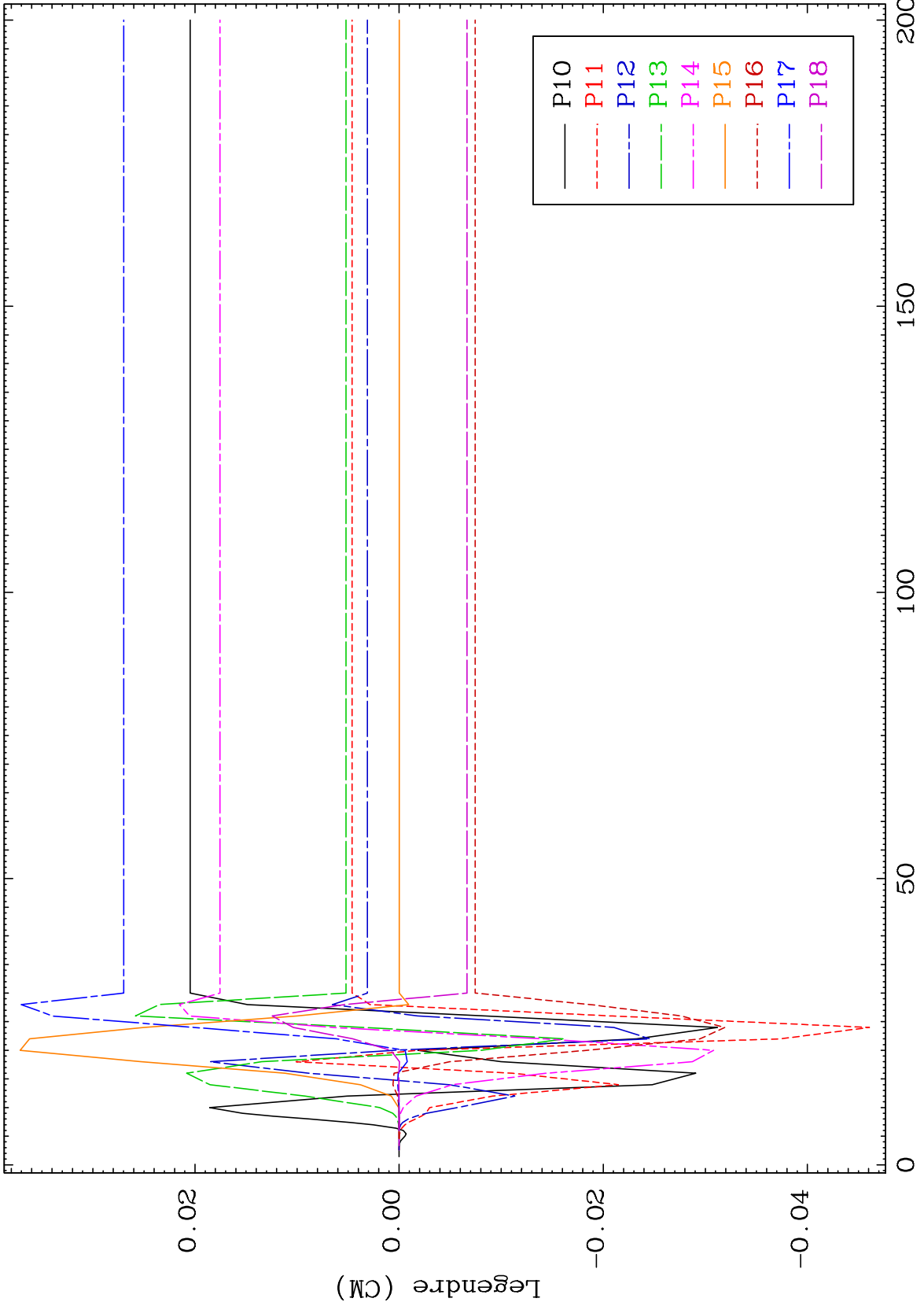
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



25

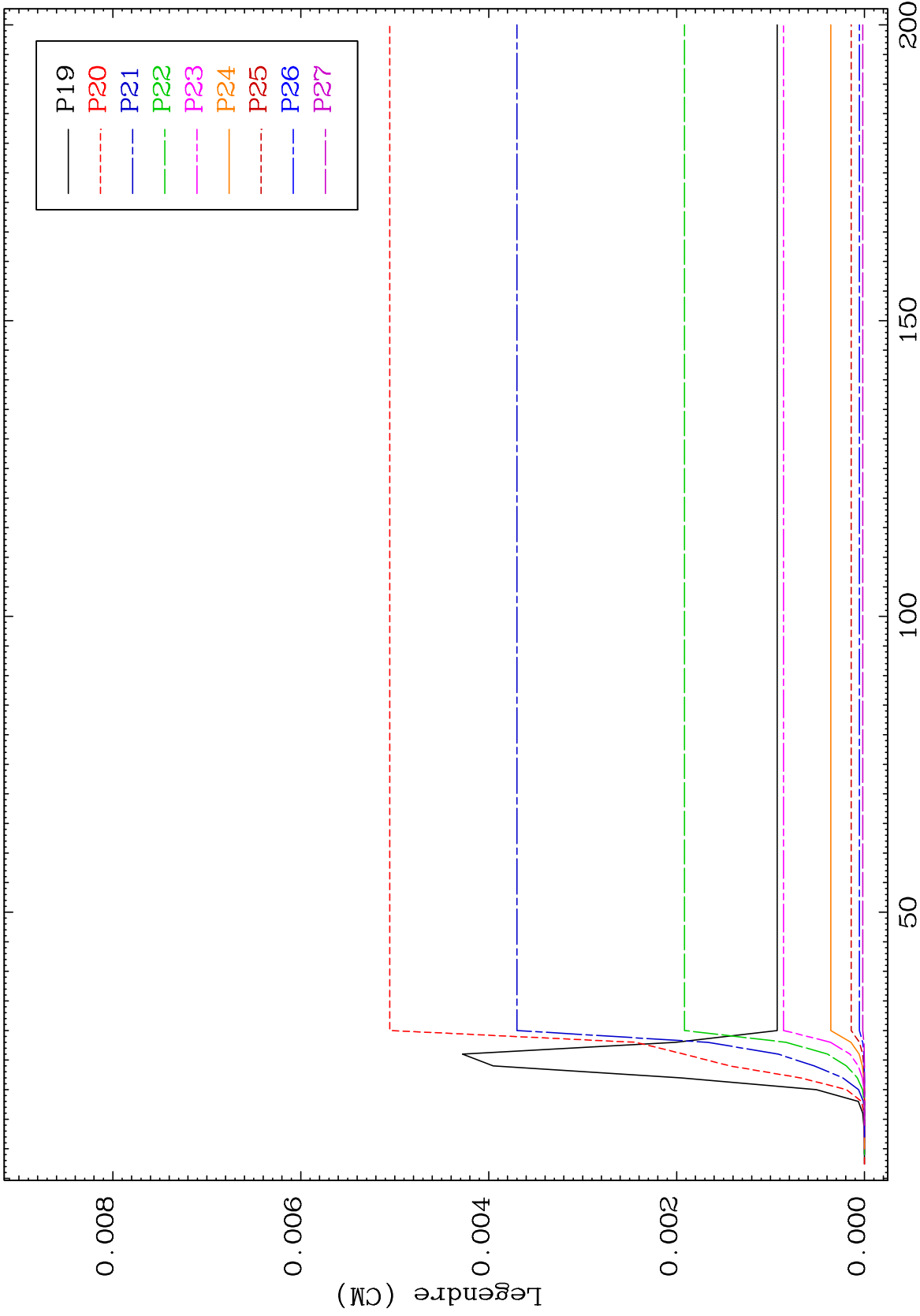
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



26

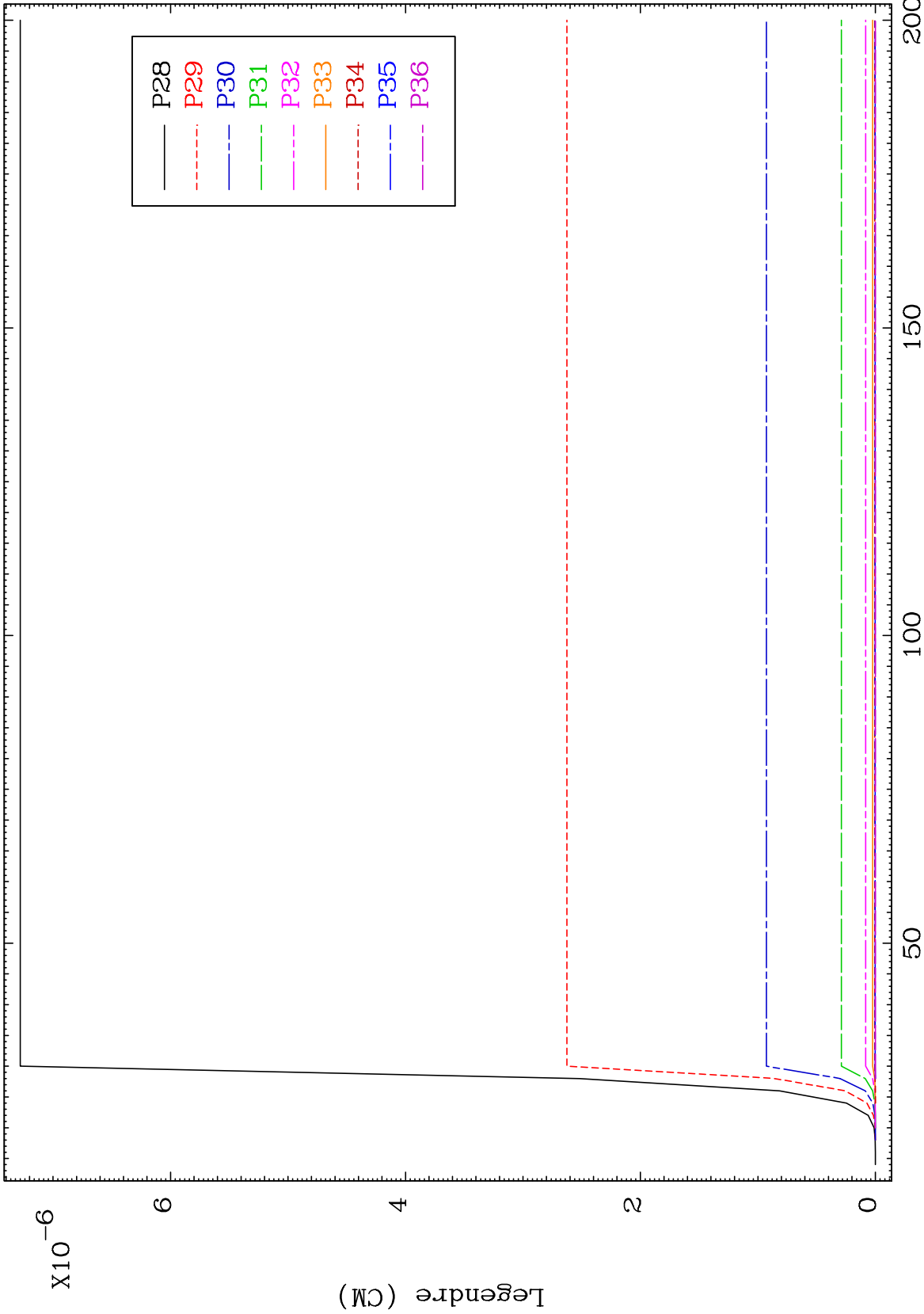
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



27

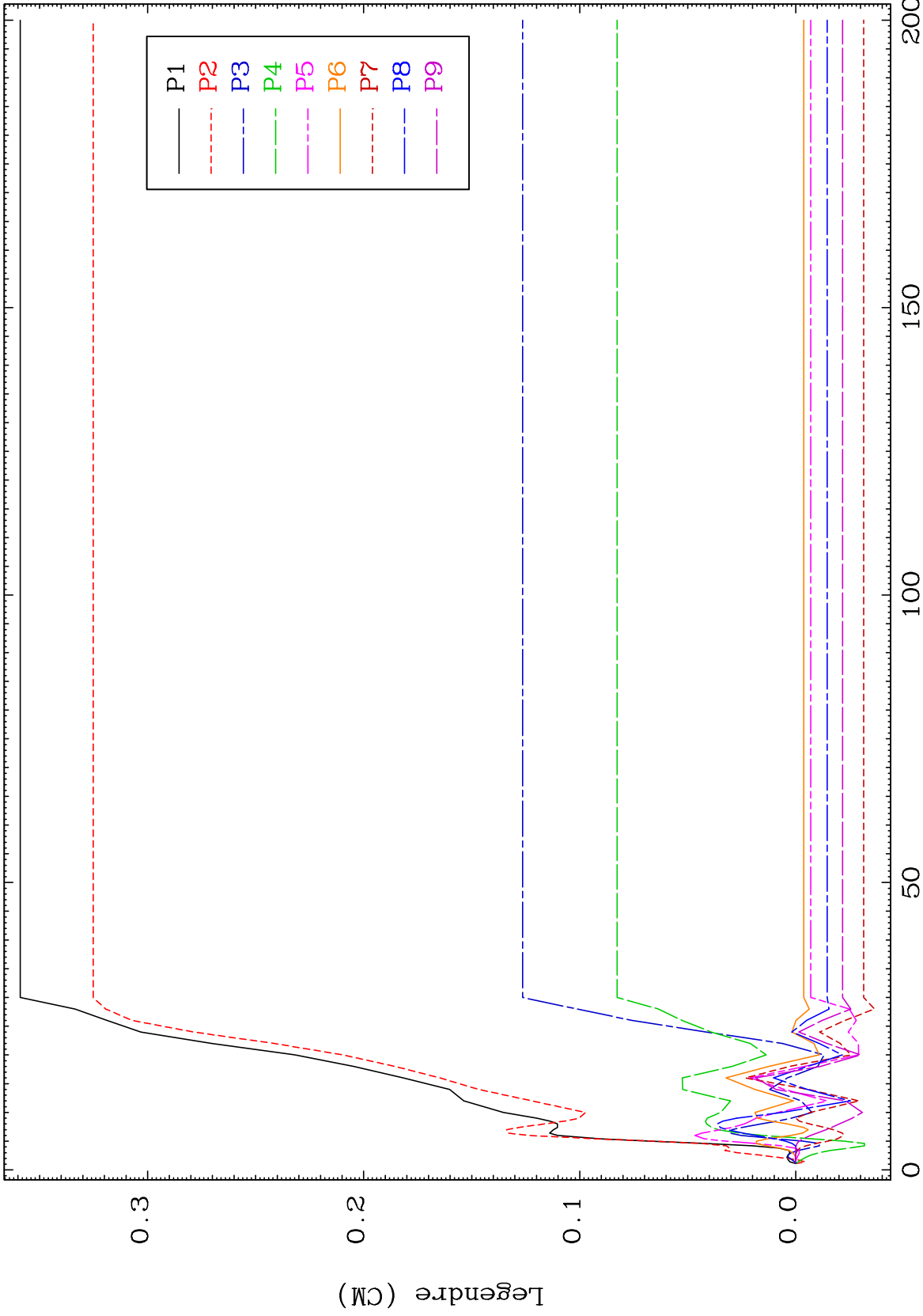
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



28

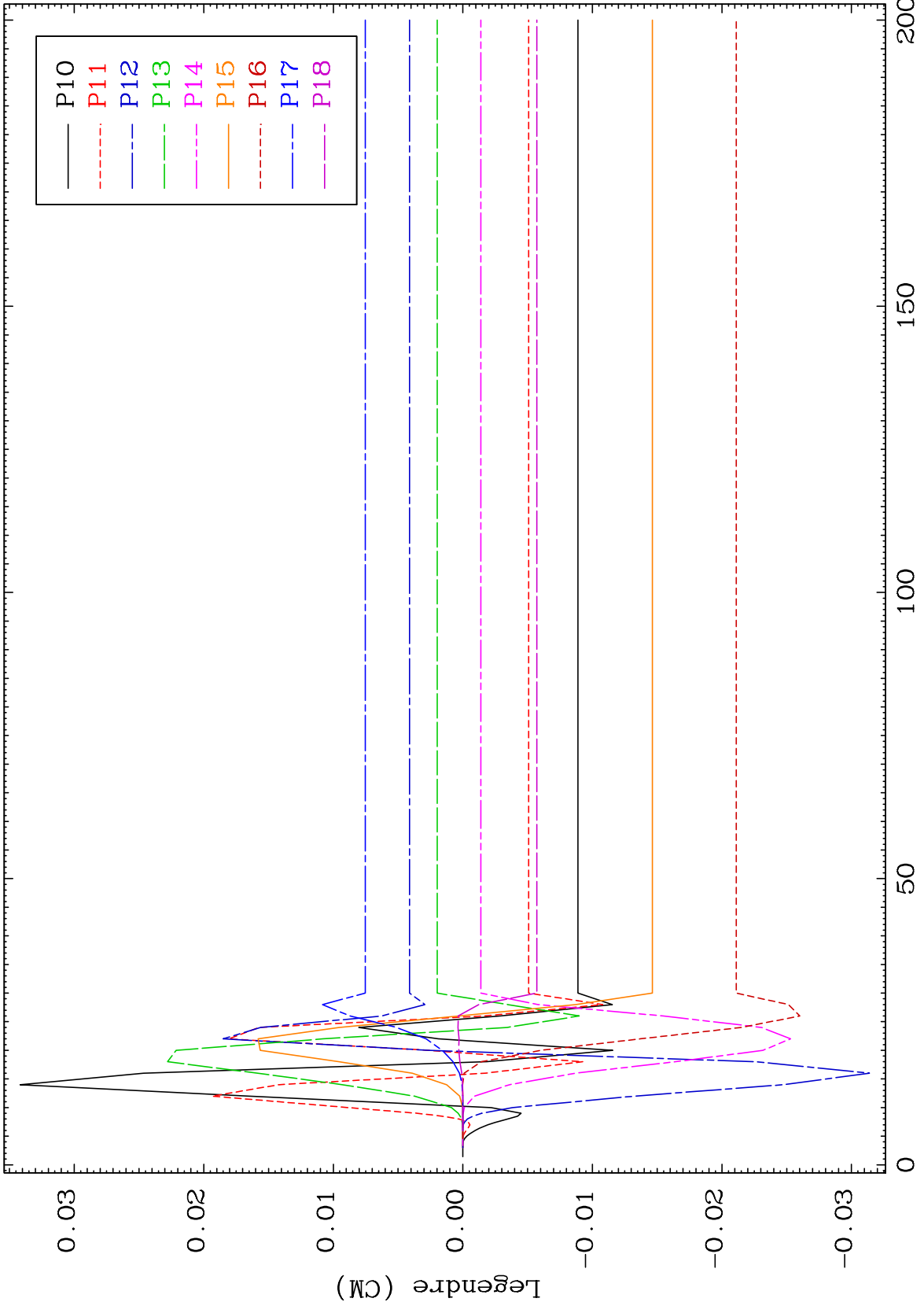
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



29

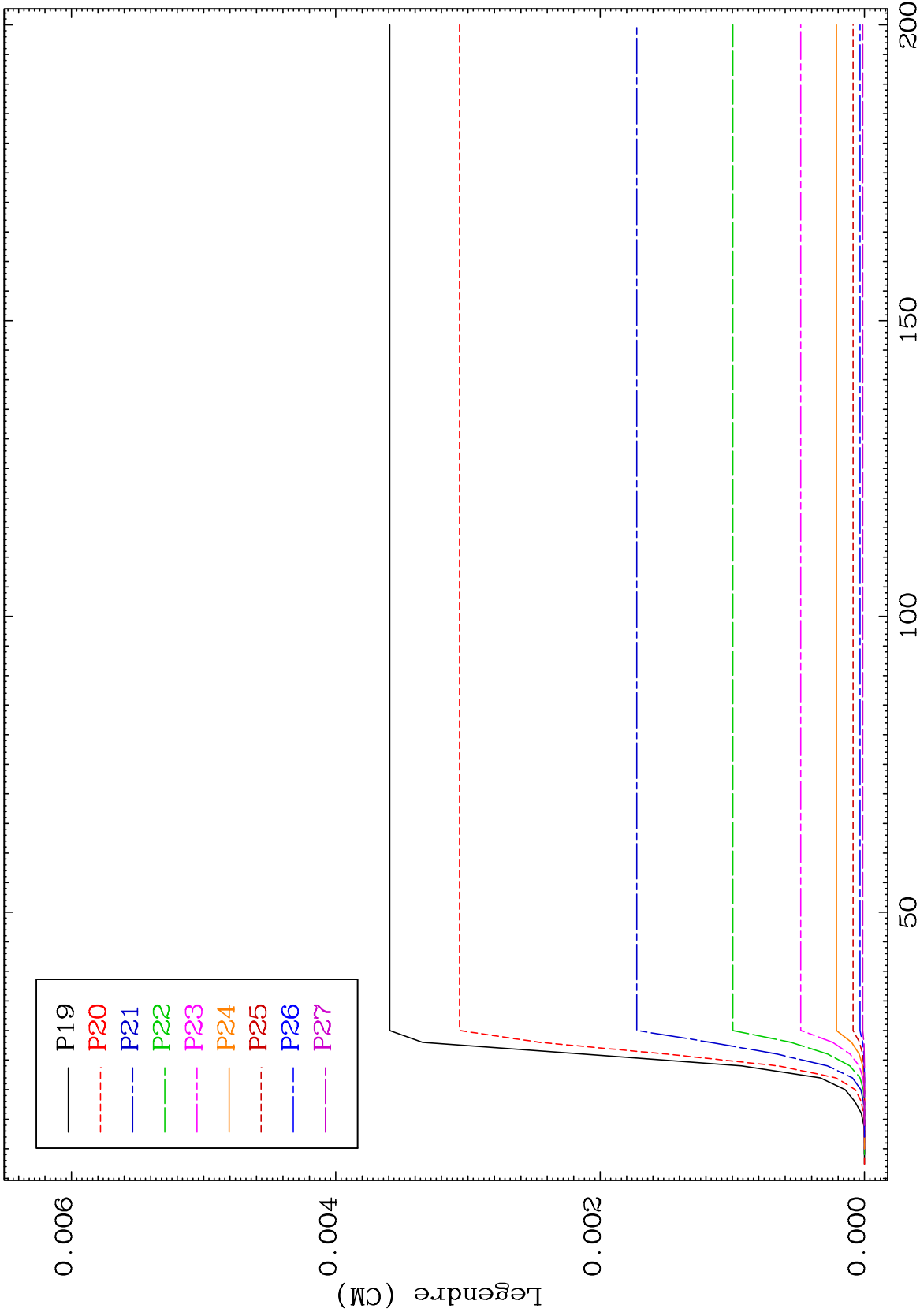
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



30

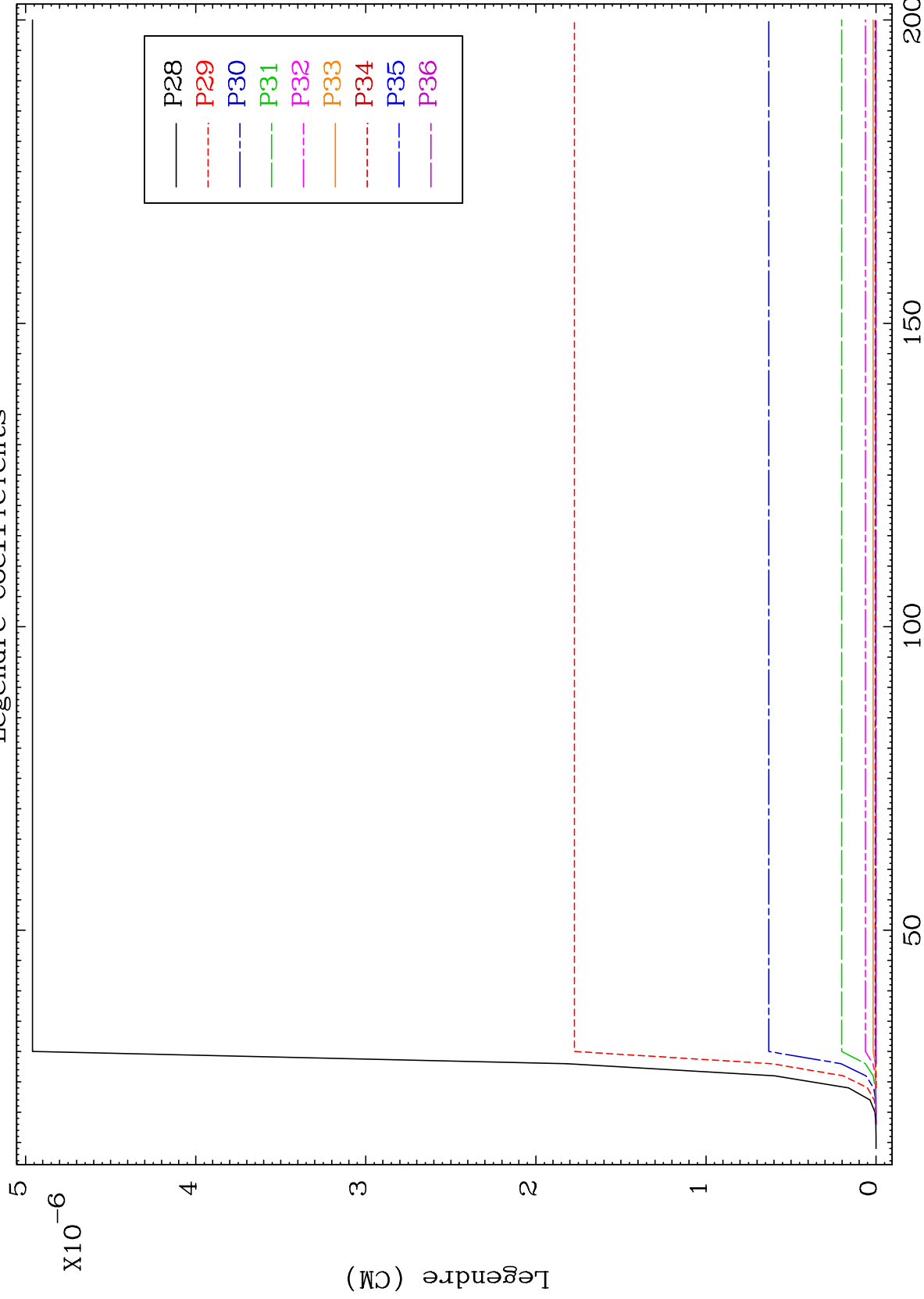
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



31

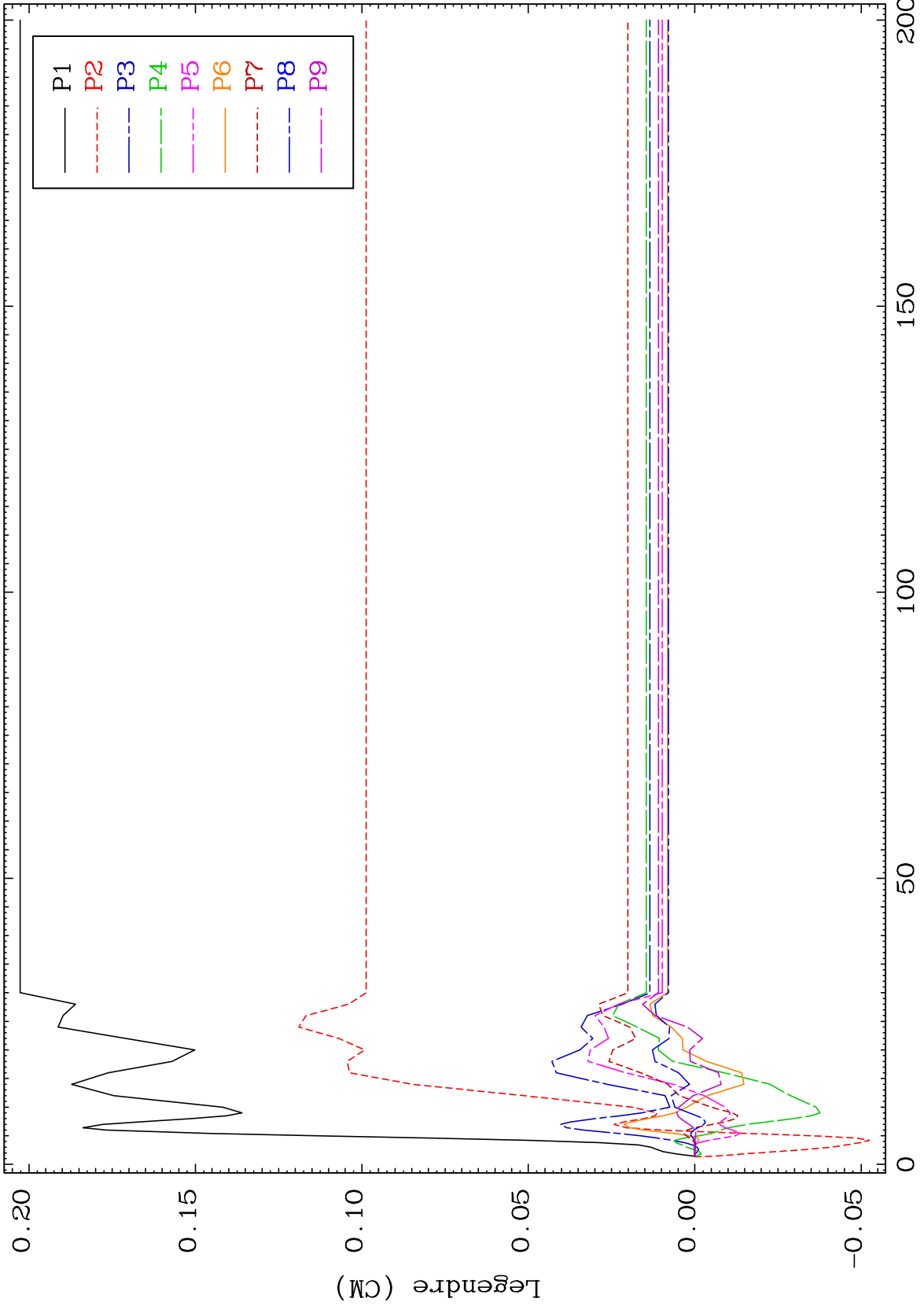
58-Ce-136



MAT 5825

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

58-Ce-136



32

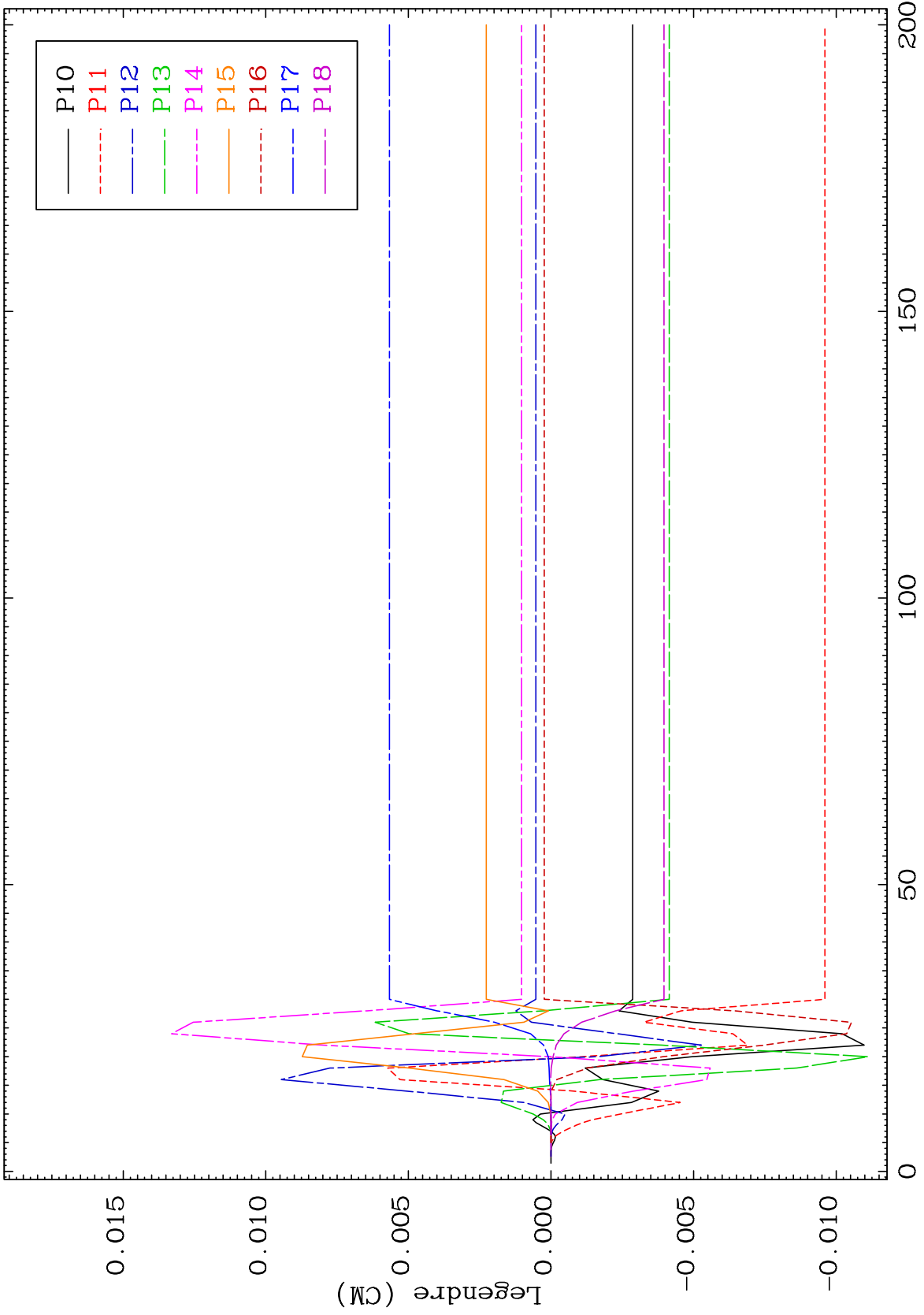
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



33

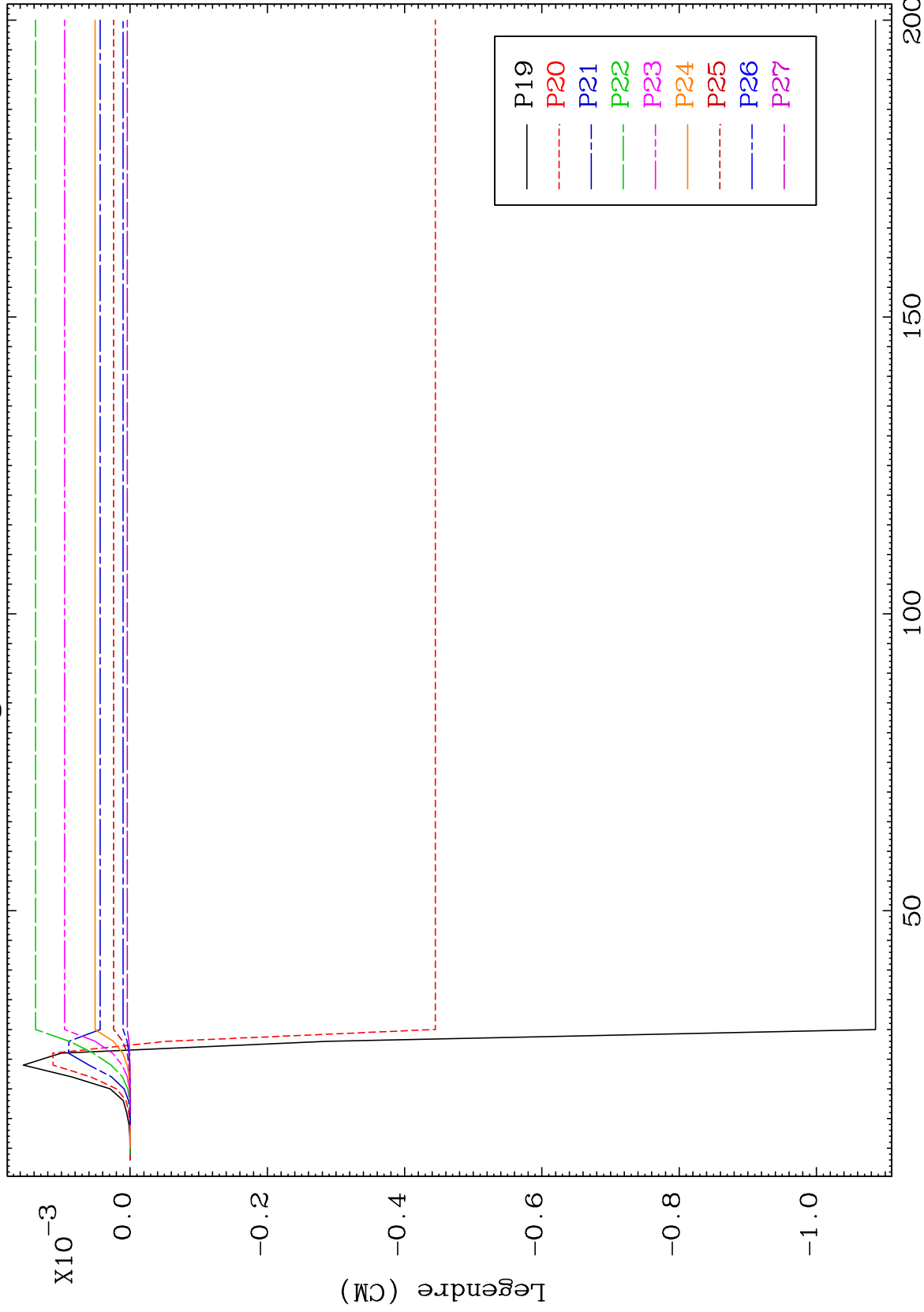
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



34

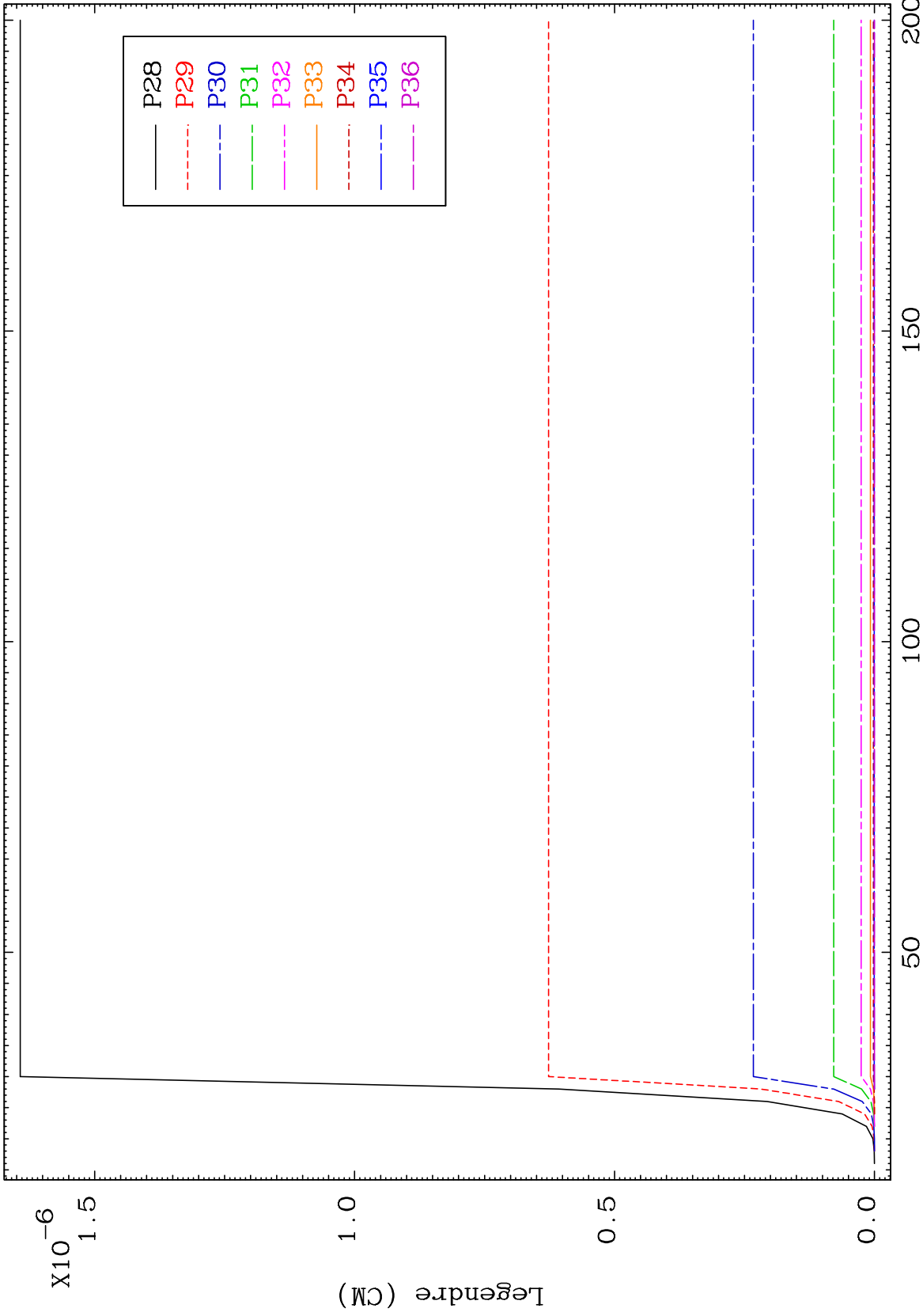
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



35

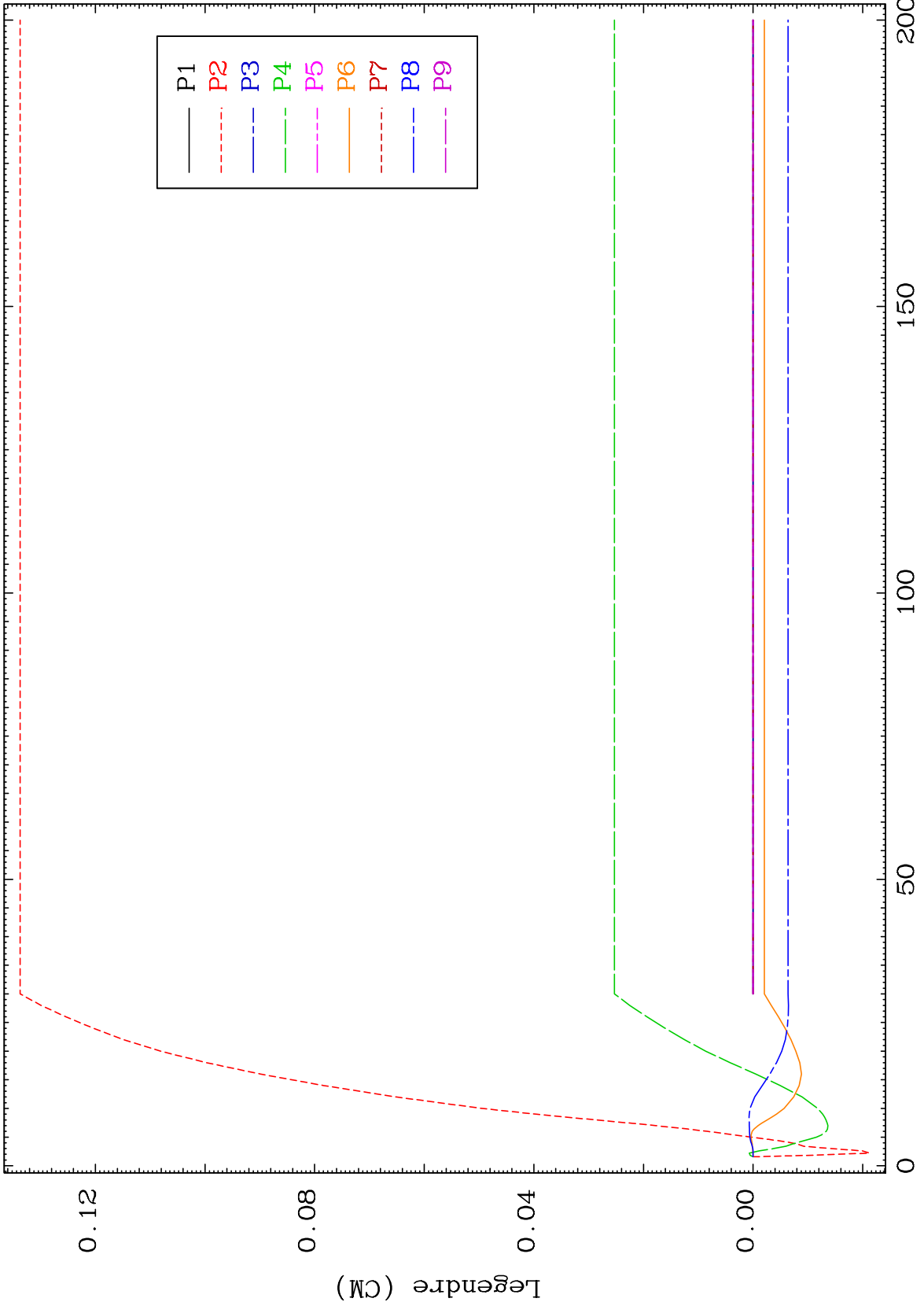
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



36

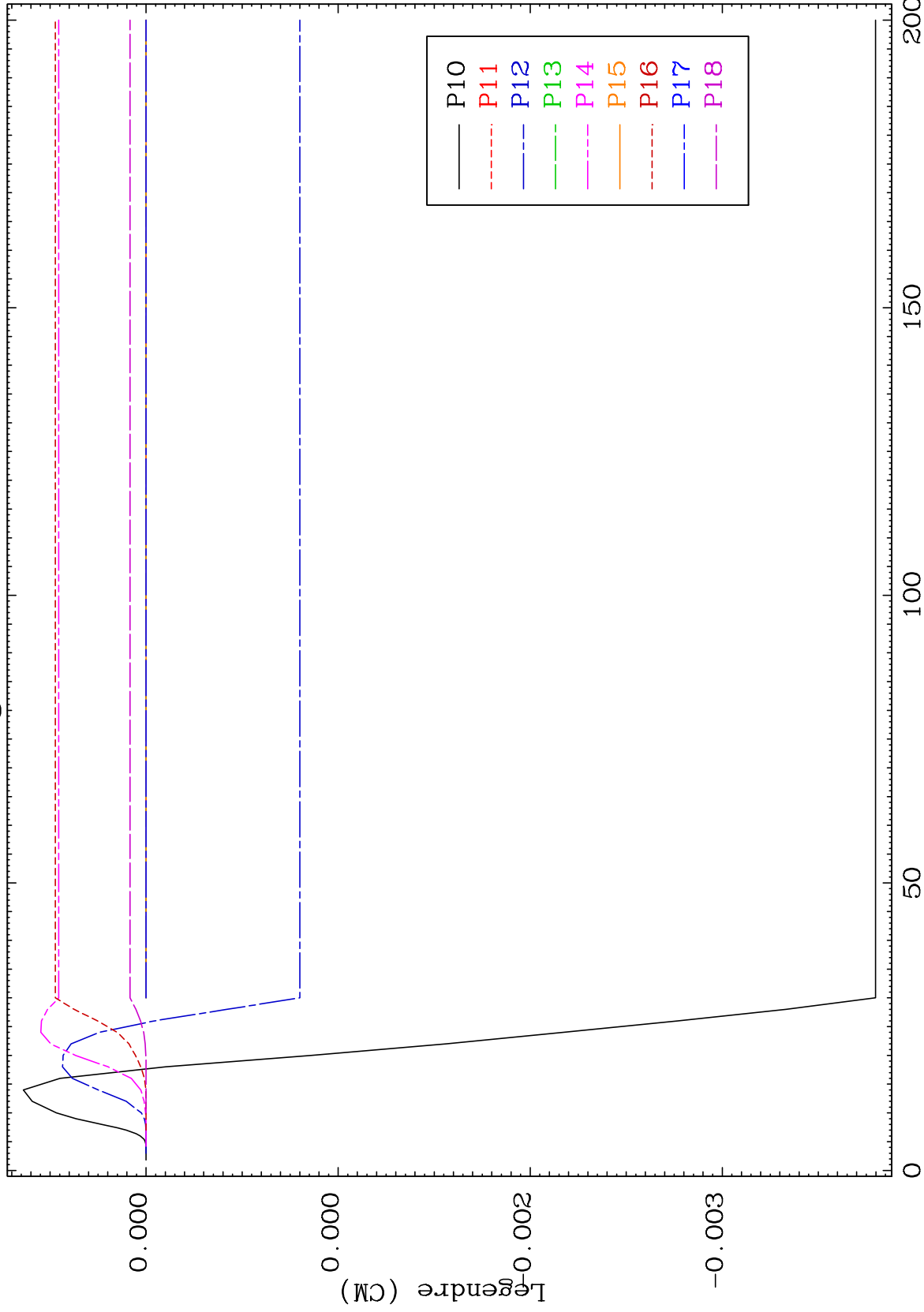
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



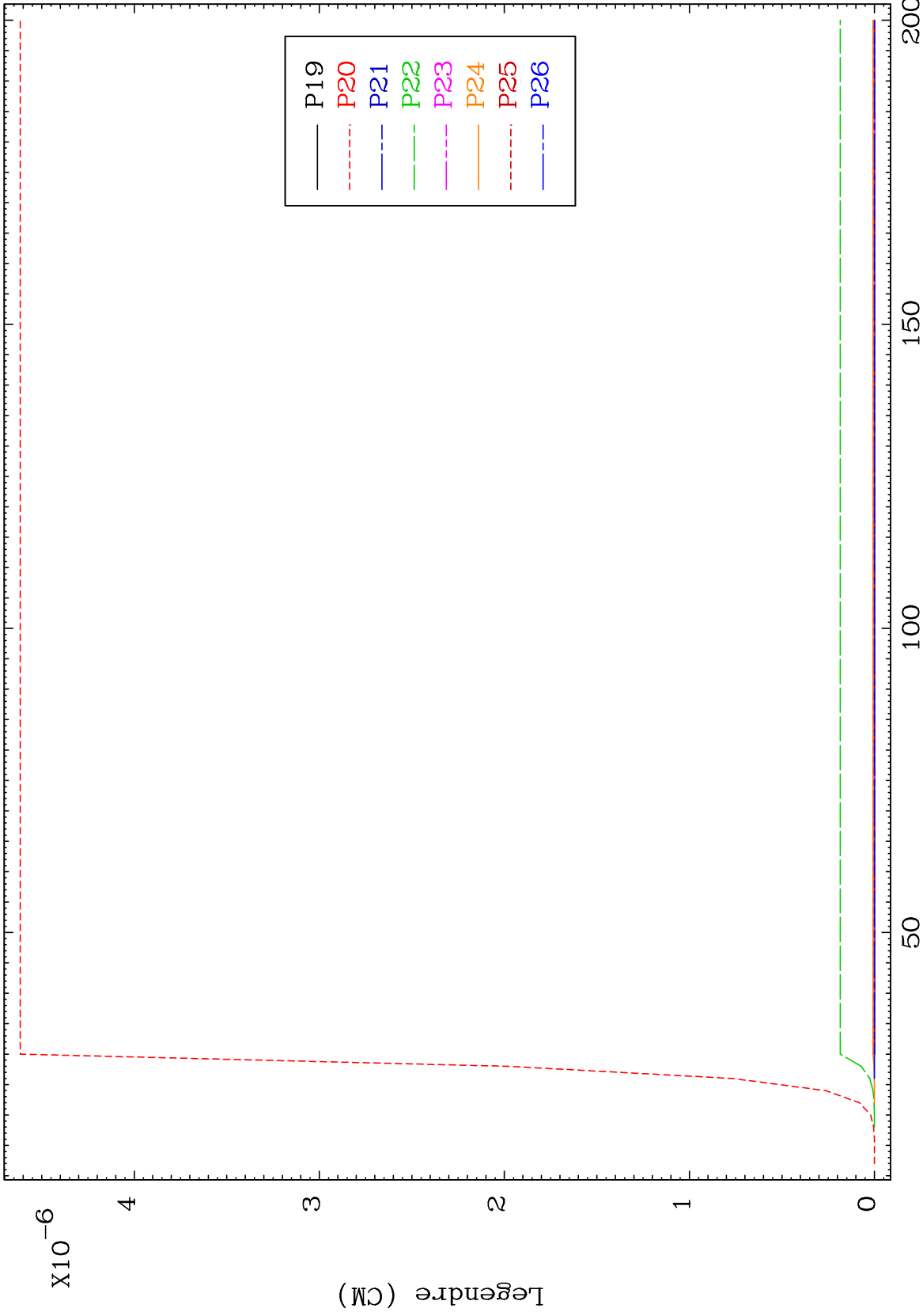
37

58-Ce-136

MAT 5825

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

58-Ce-136



38

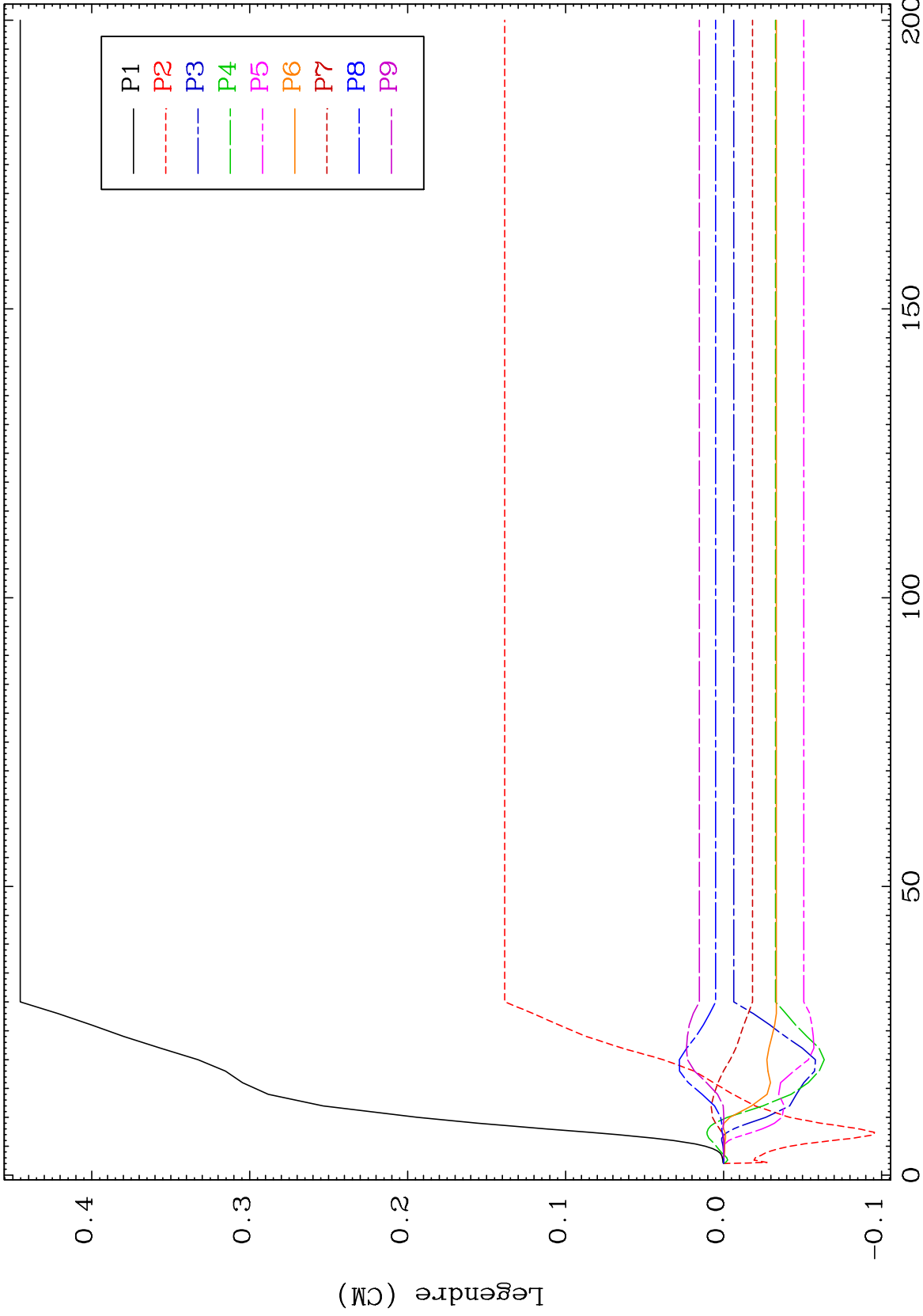
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



39

Incident Energy (MeV)

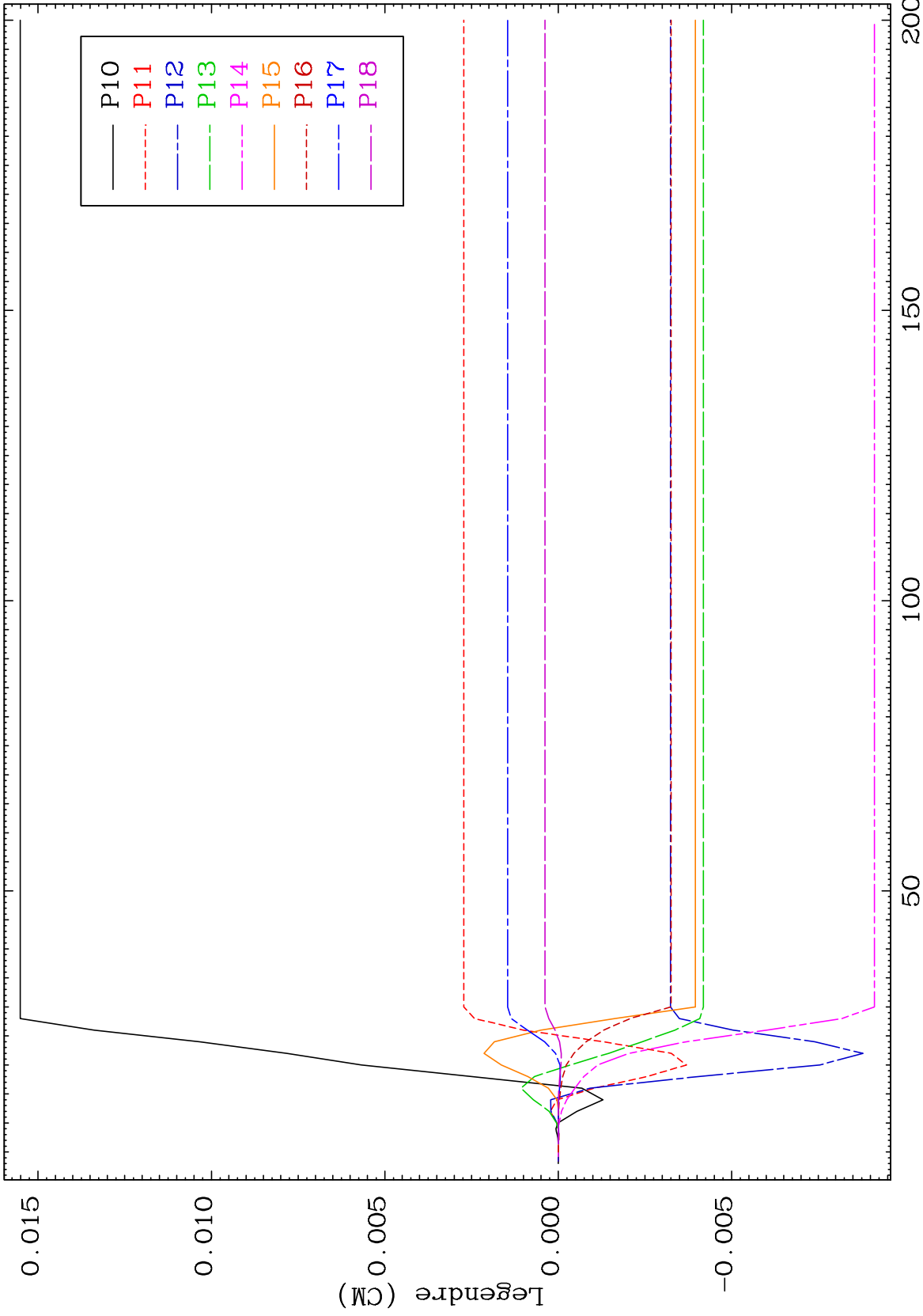
58-Ce-136



MAT 5825

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

58-Ce-136



40

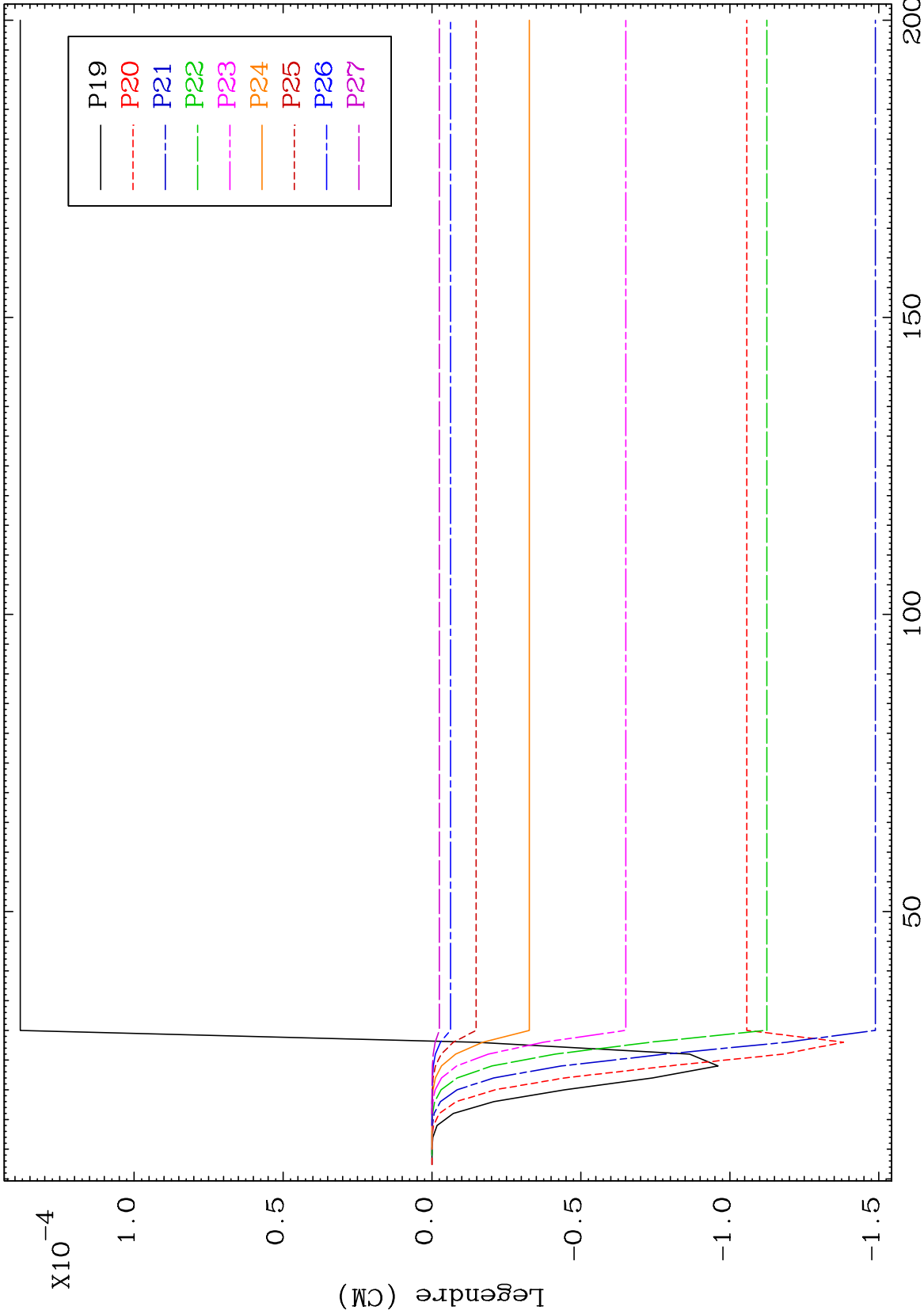
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



41

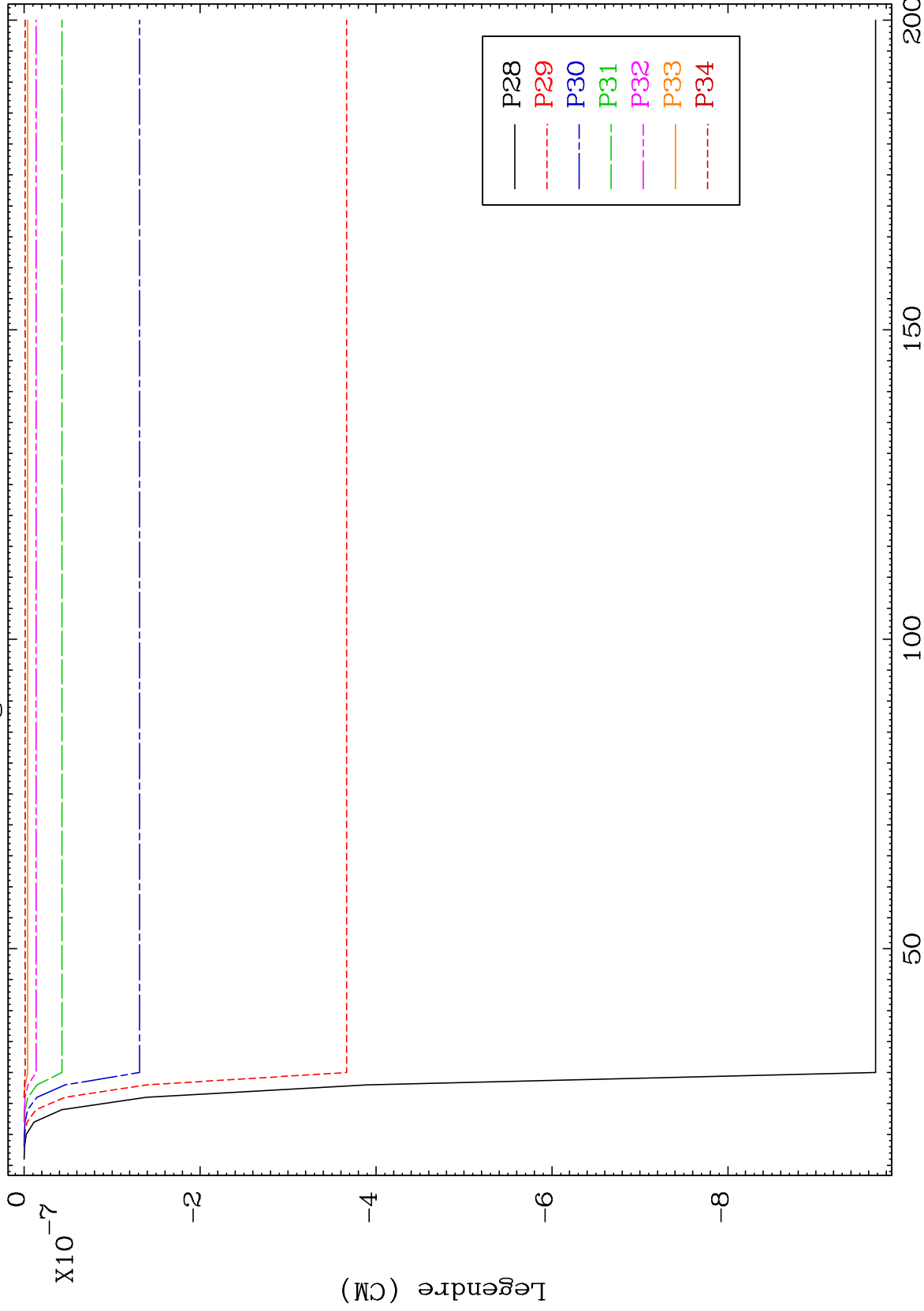
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



42

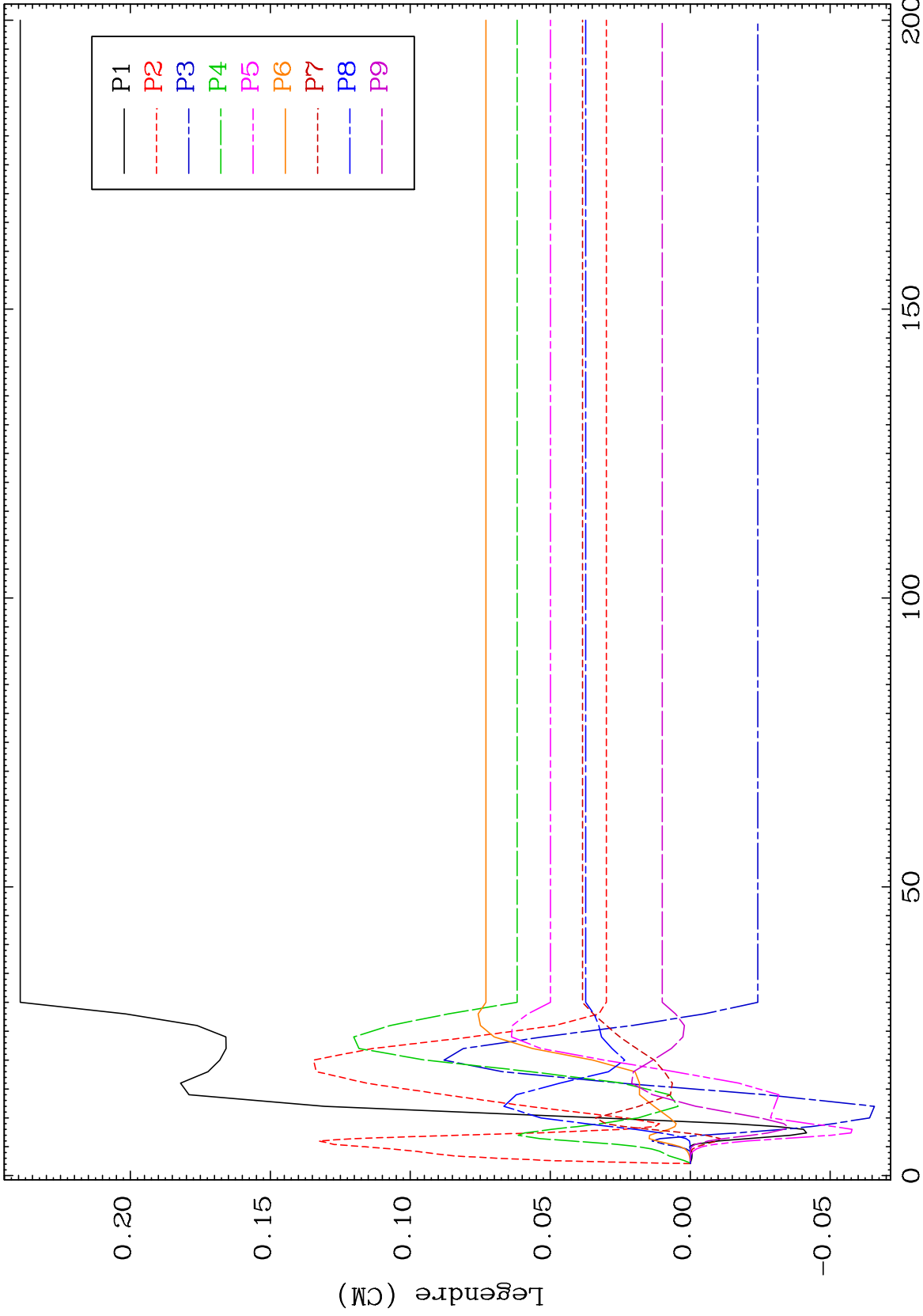
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



43

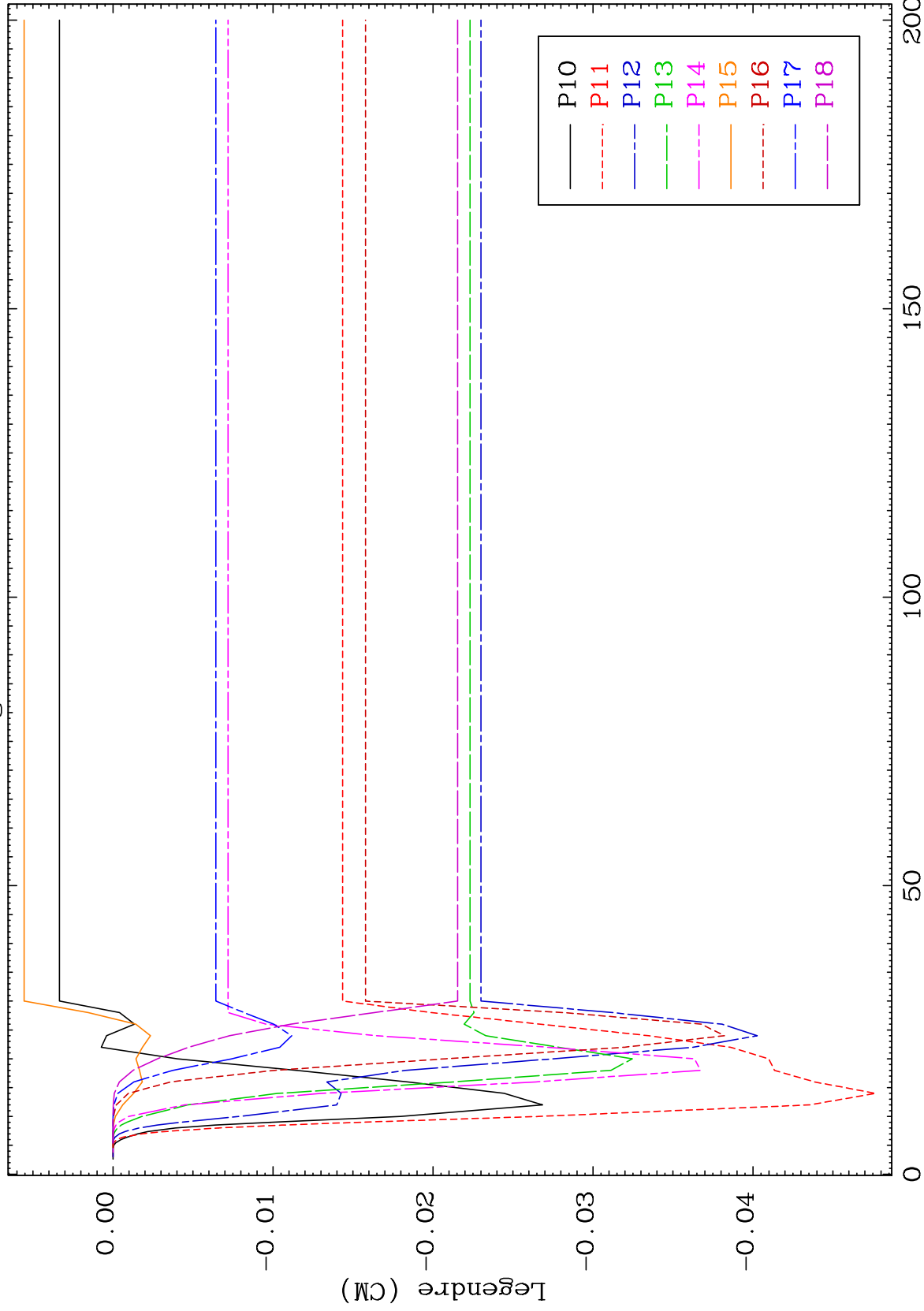
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136

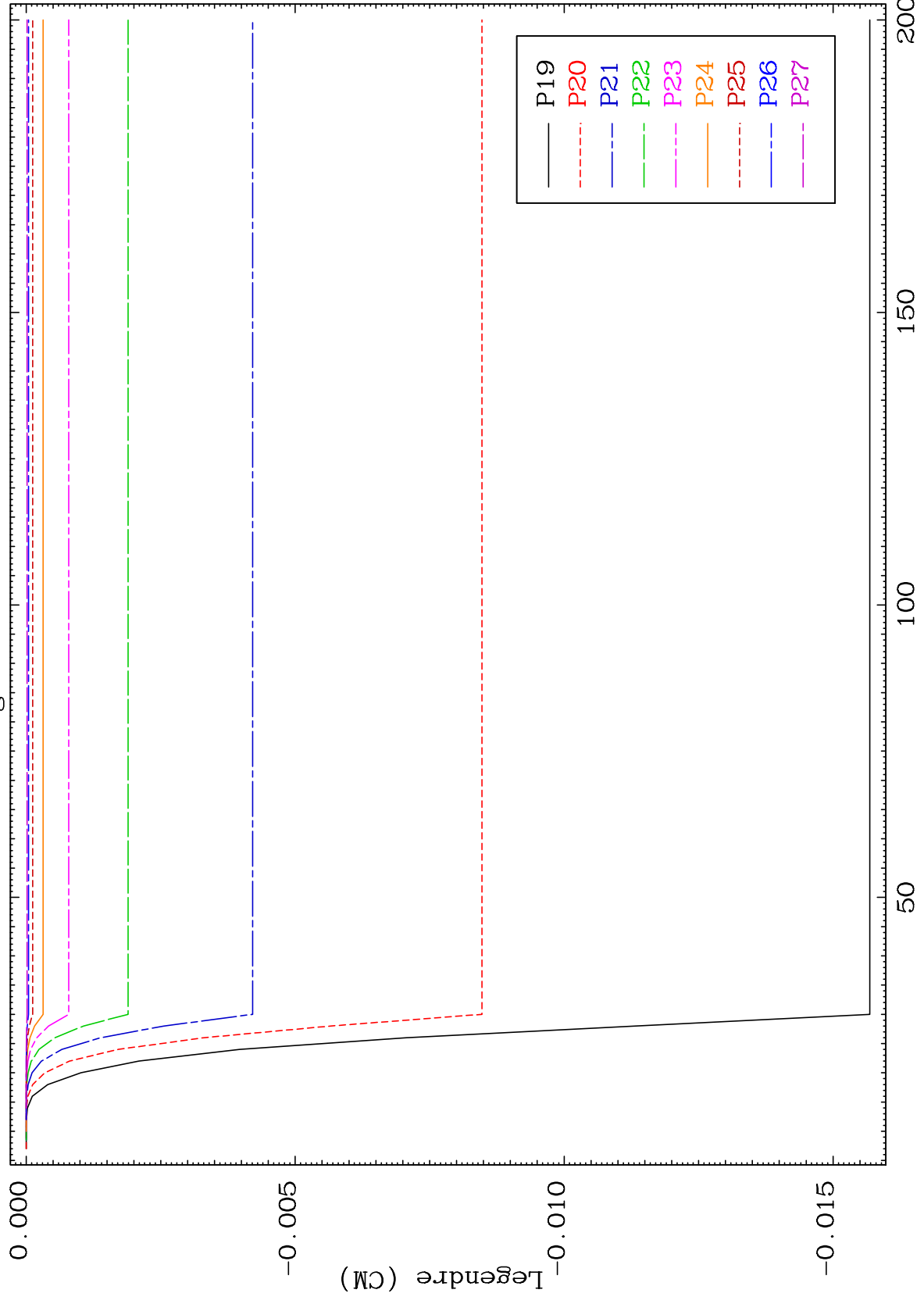


44

Incident Energy (MeV)

58-Ce-136

MAT 5825 MT= 57 (n,n') Level Legendre Coefficients 58-Ce-136

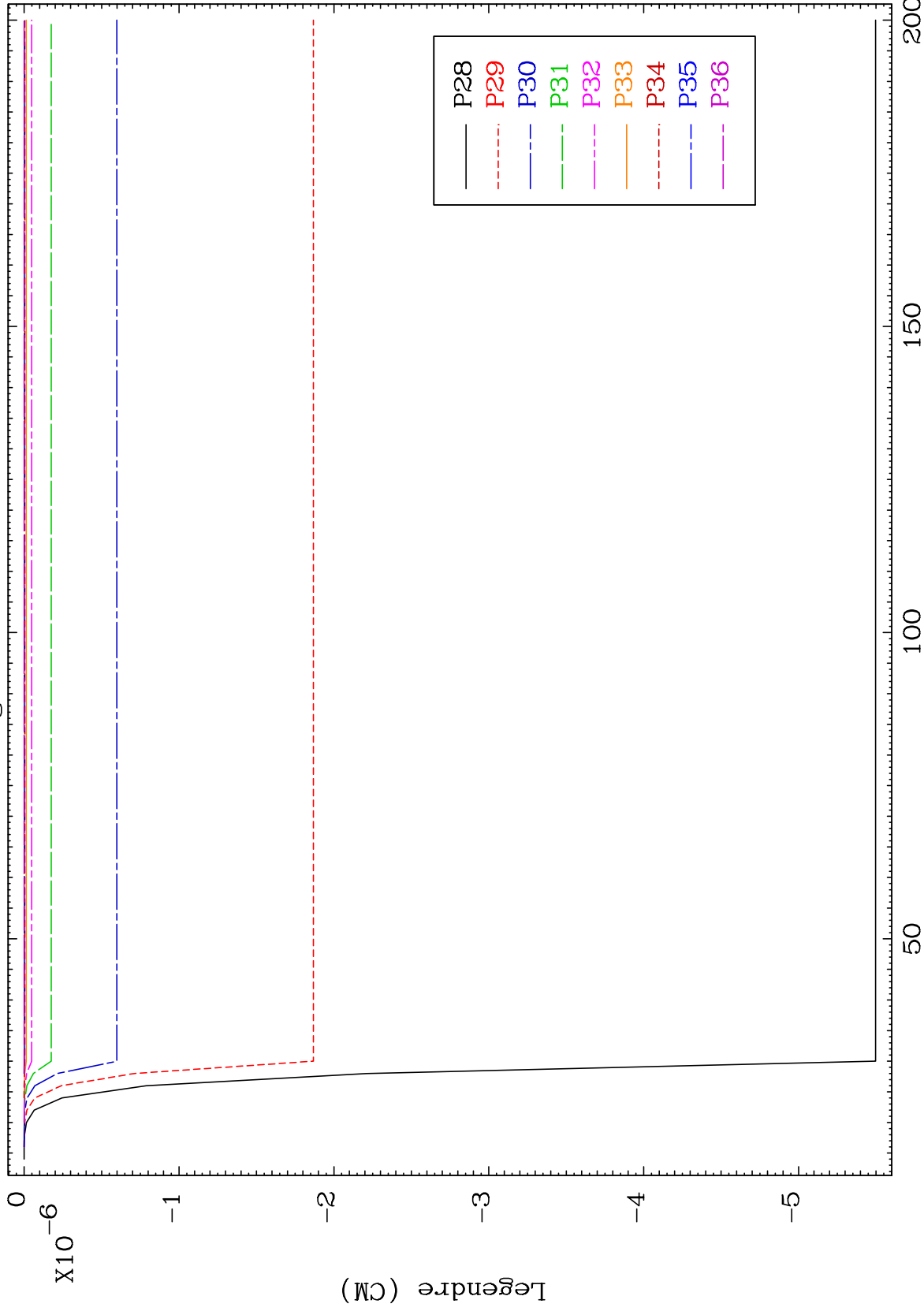


45 Incident Energy (MeV) 58-Ce-136

MAT 5825

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

58-Ce-136



46

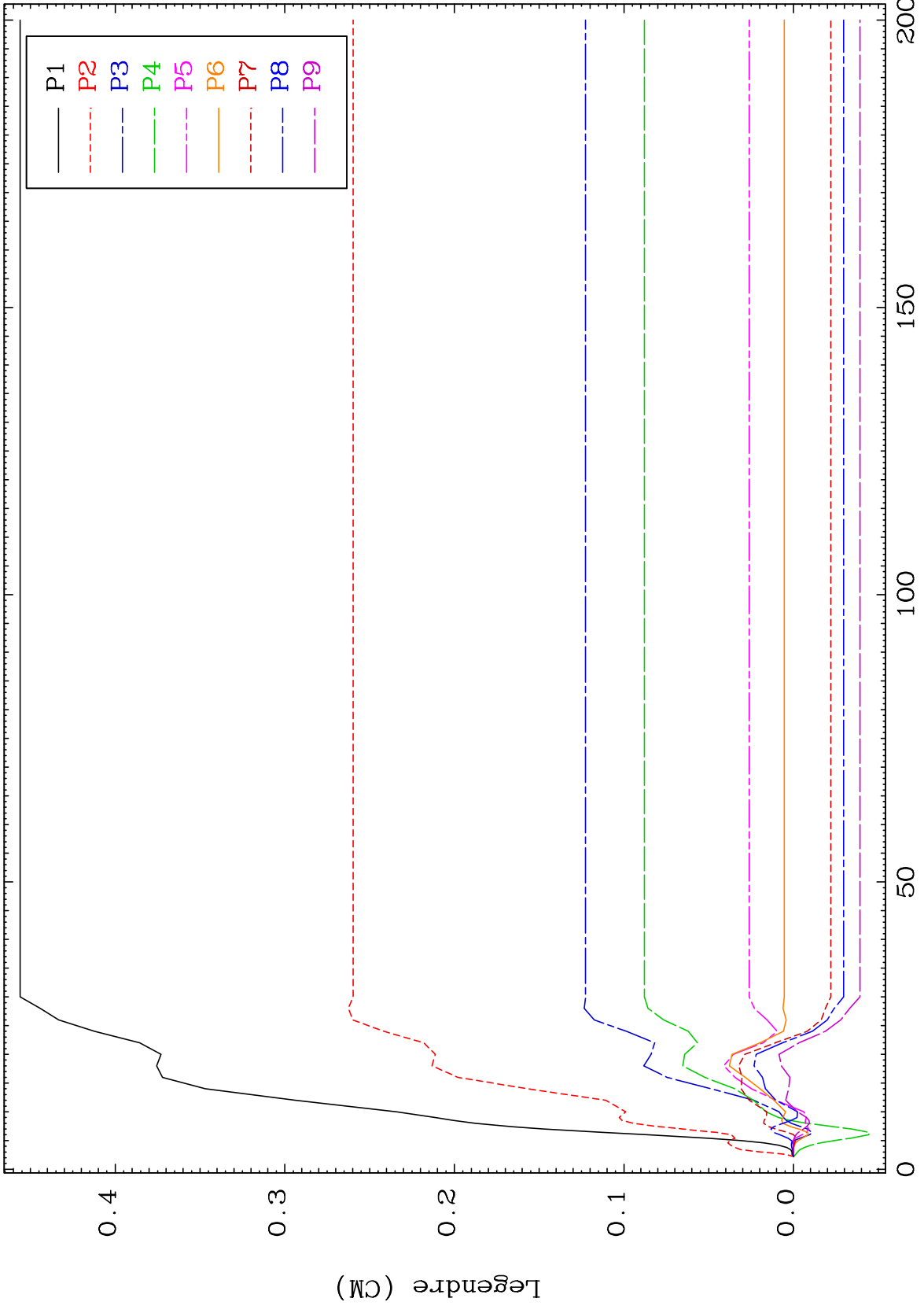
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



47

Incident Energy (MeV)

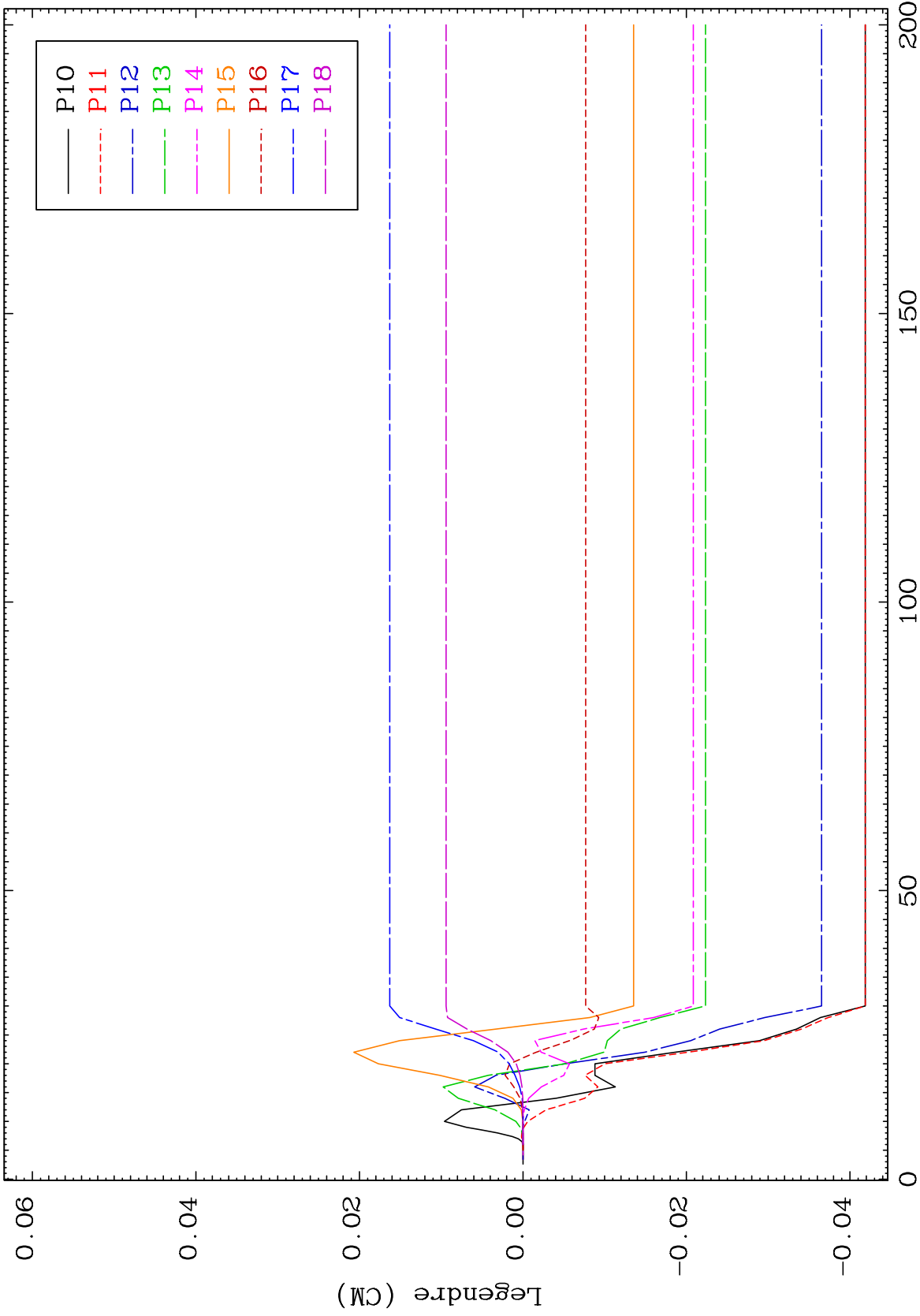
58-Ce-136



MAT 5825

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

58-Ce-136



48

Incident Energy (MeV)

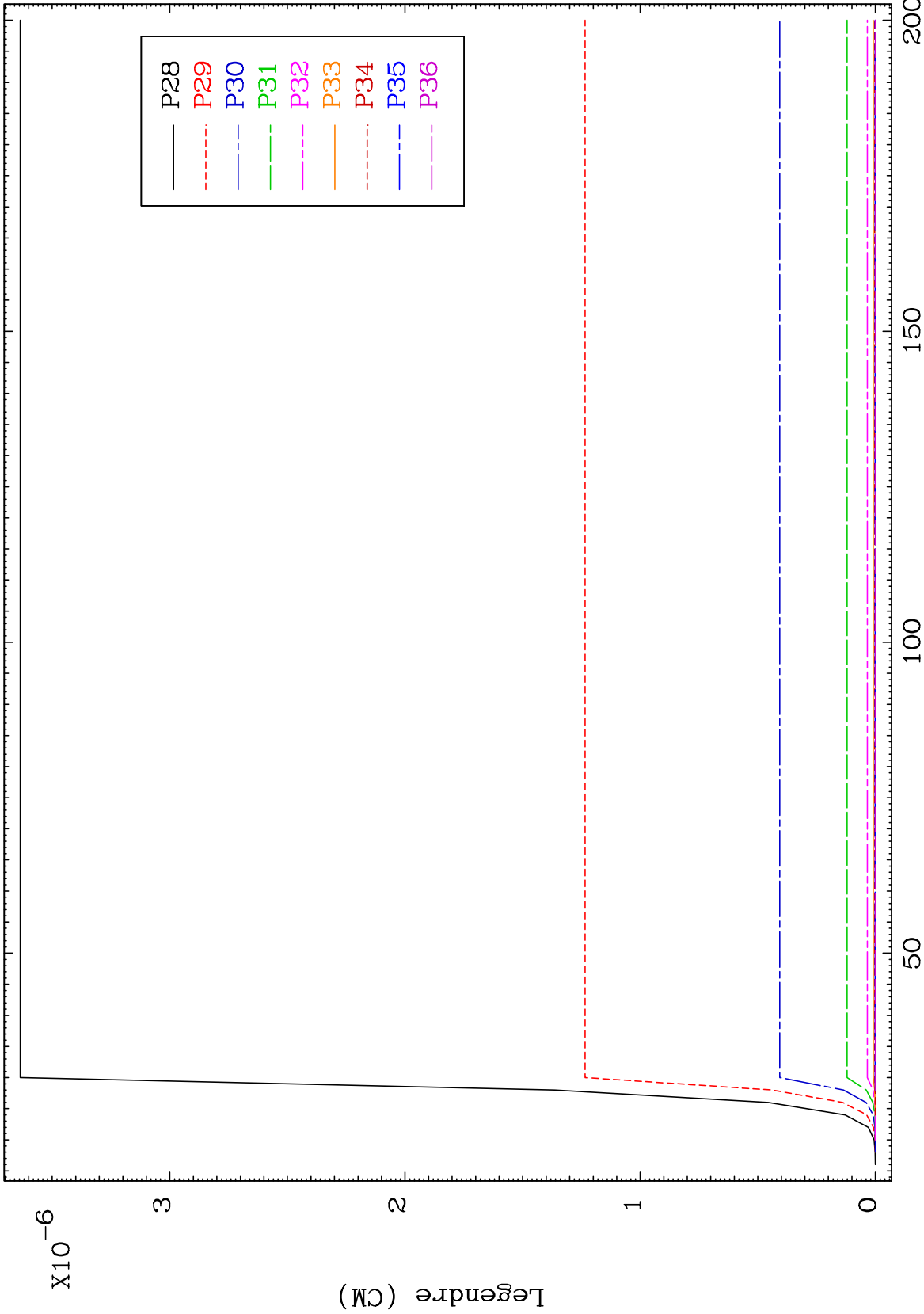
58-Ce-136



MAT 5825

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

58-Ce-136



50

50

100

150

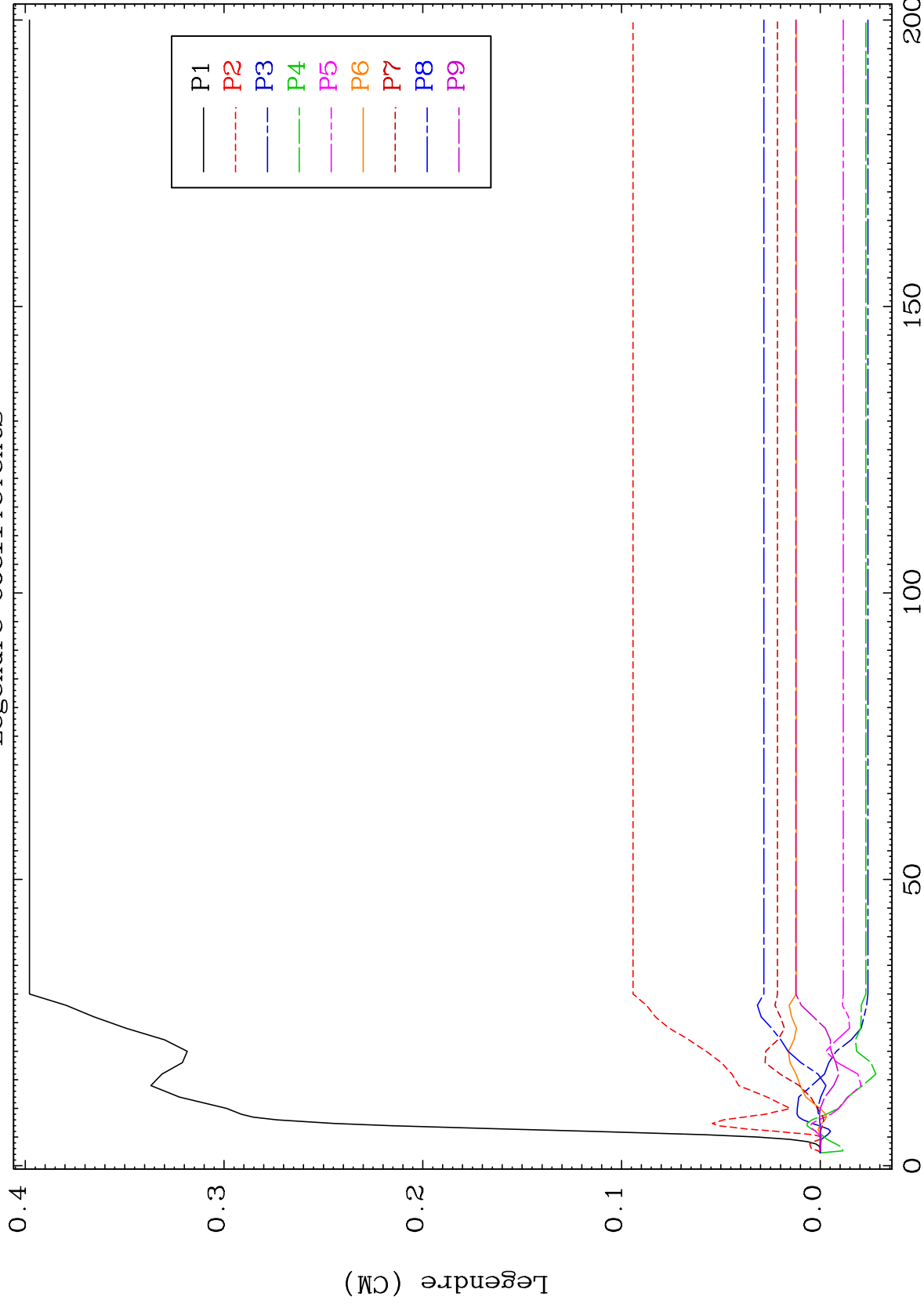
200

58-Ce-136

MAT 5825

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

58-Ce-136



51

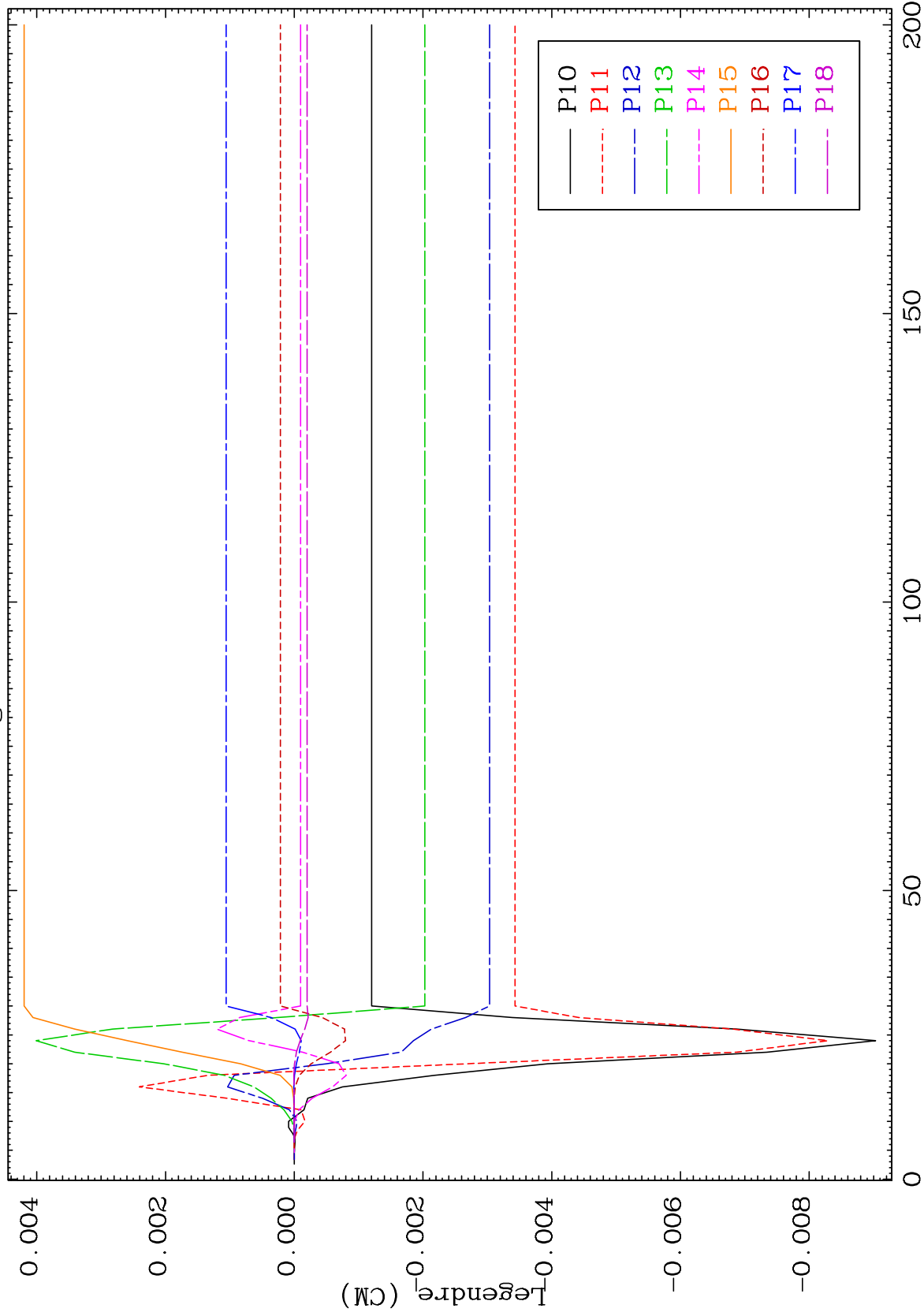
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



52

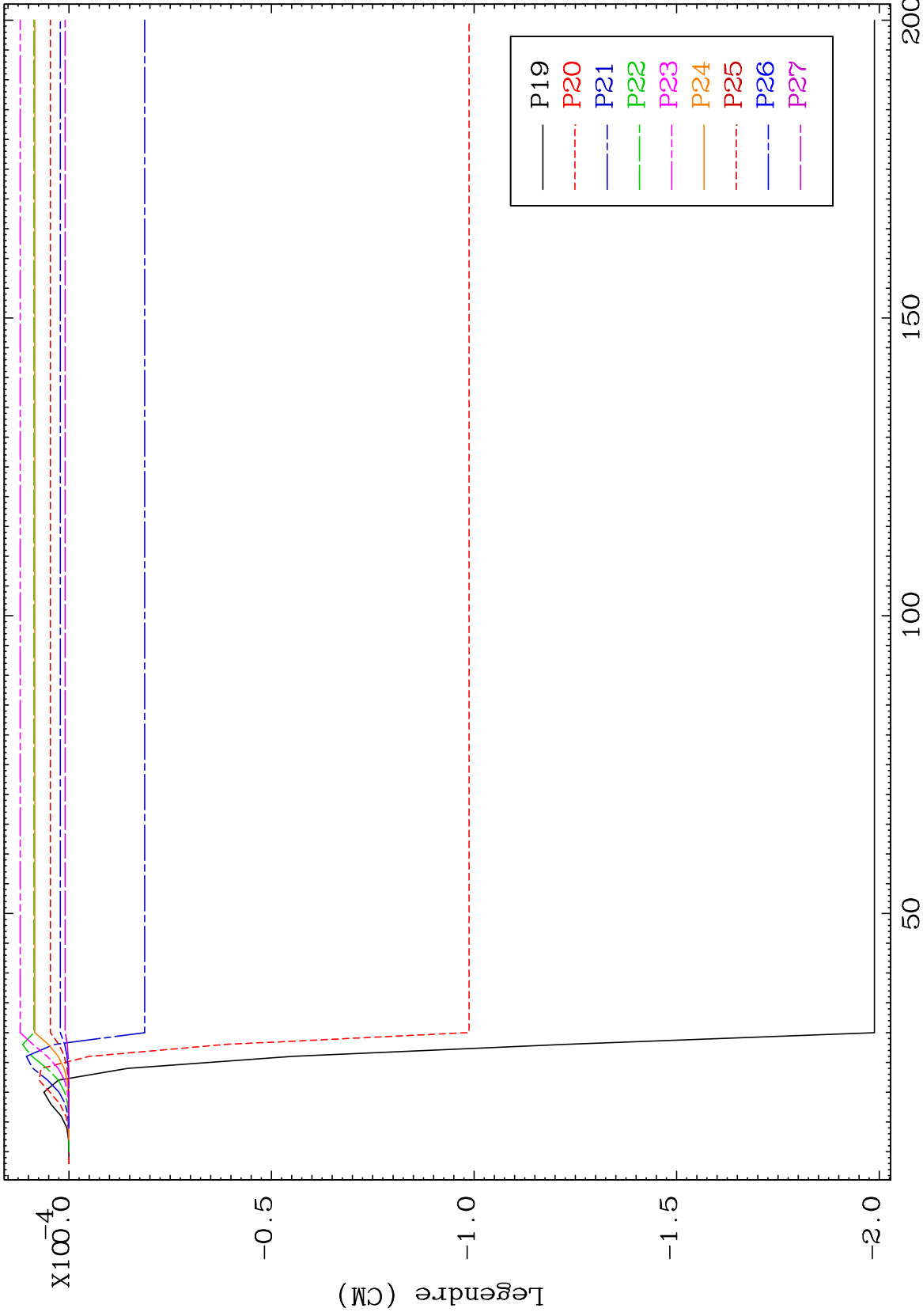
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



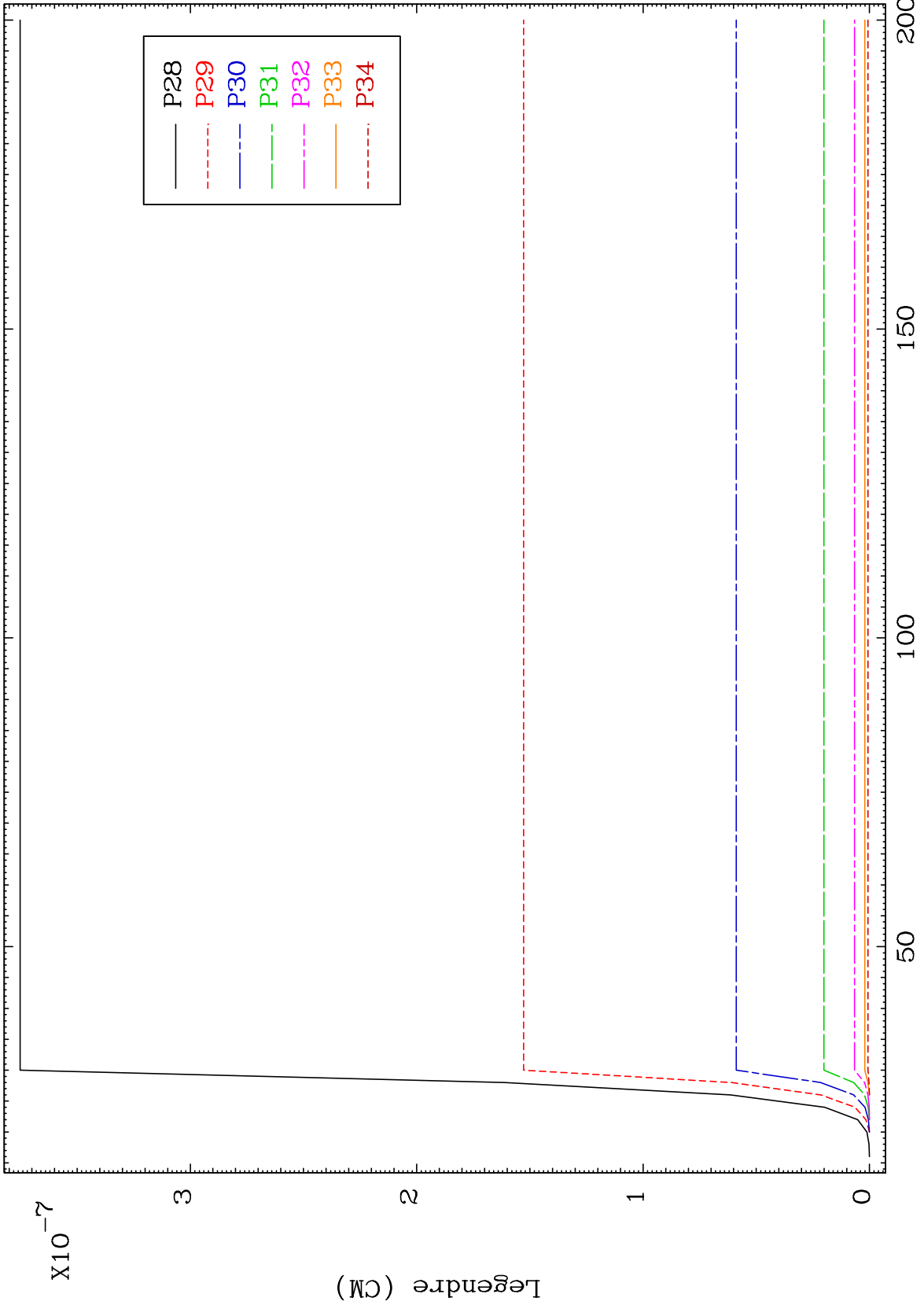
53

58-Ce-136

MAT 5825

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

58-Ce-136



54

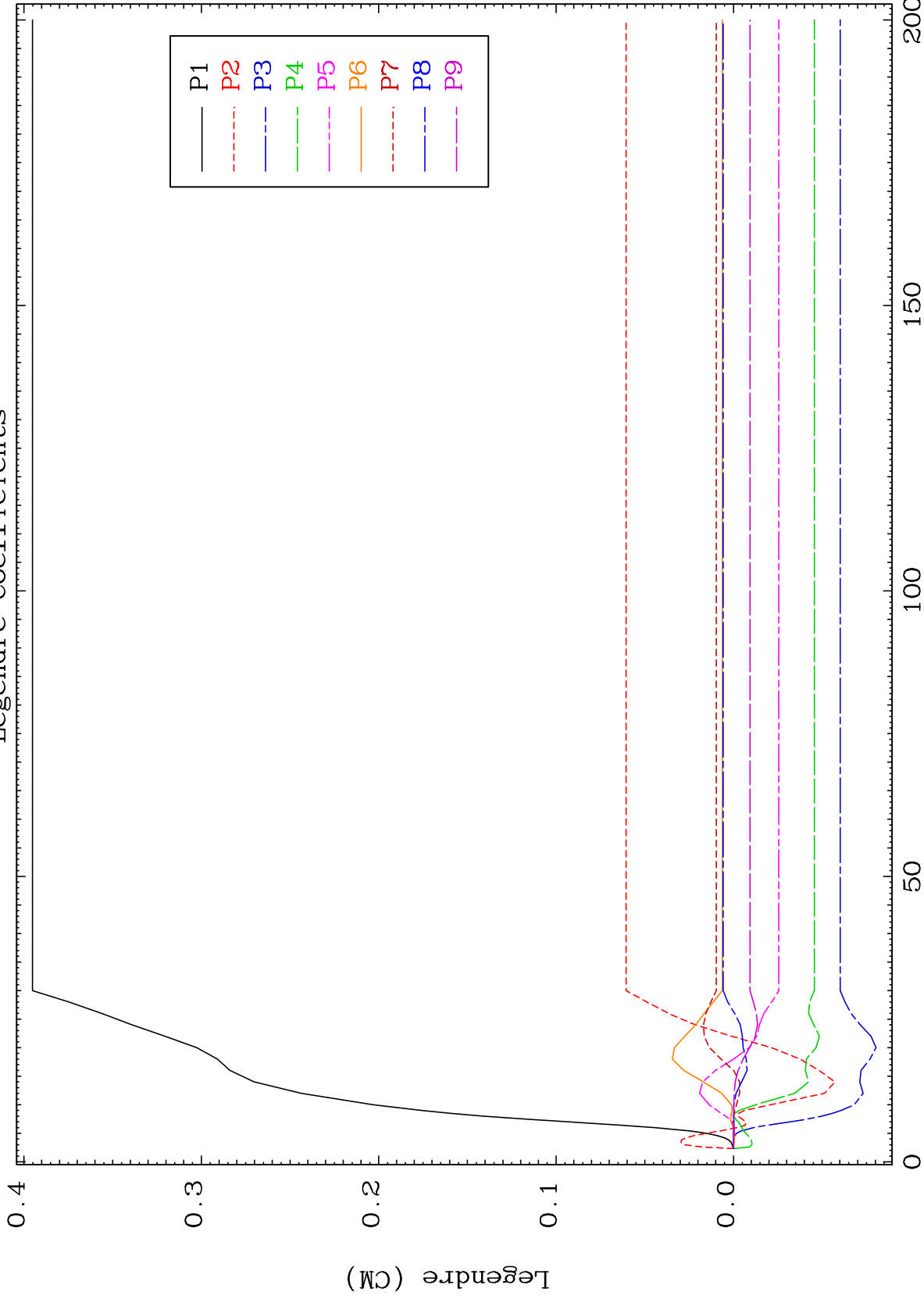
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



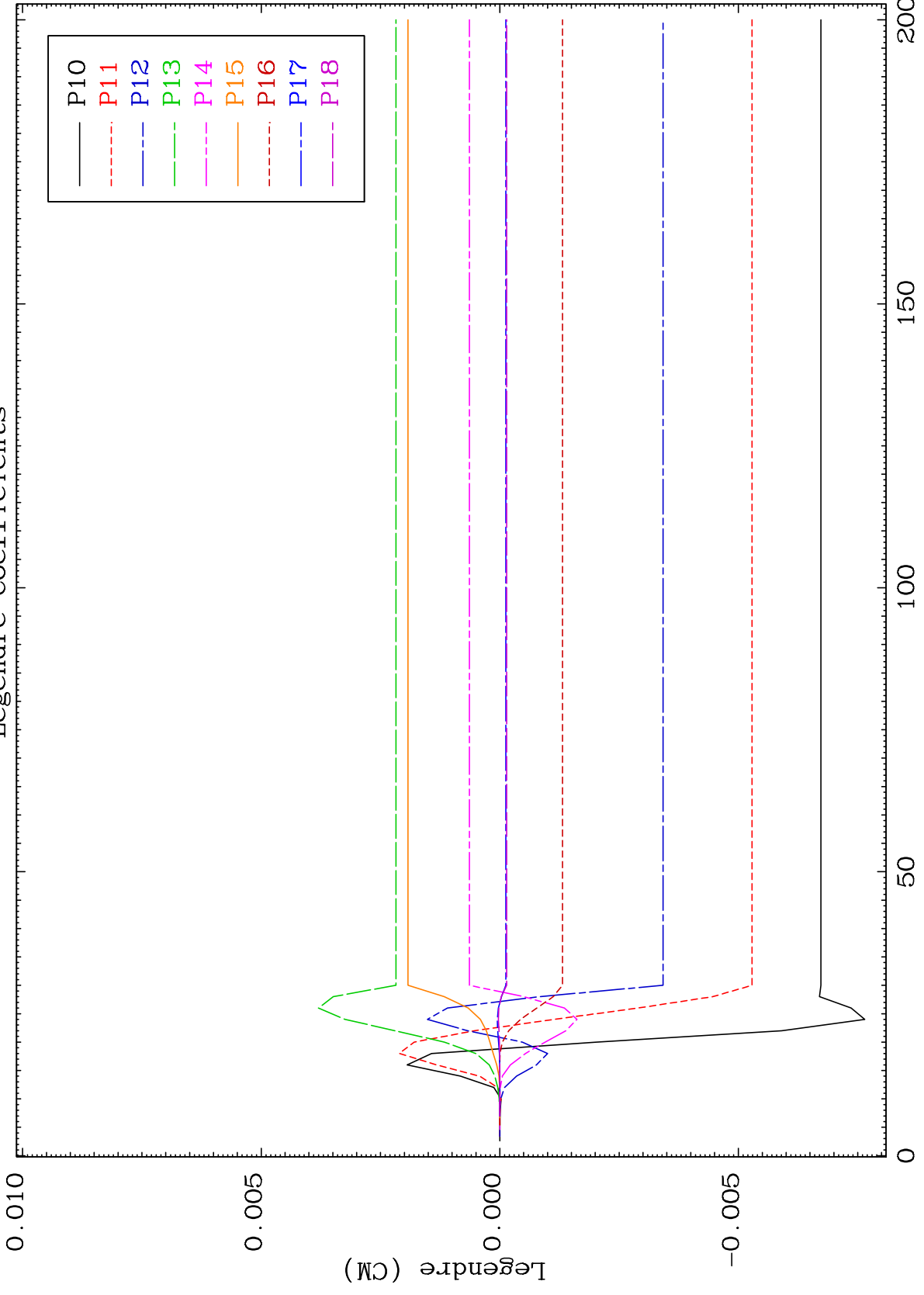
55

Incident Energy (MeV)

58-Ce-136



MAT 5825 MT= 60 (n,n') Level Legendre Coefficients 58-Ce-136

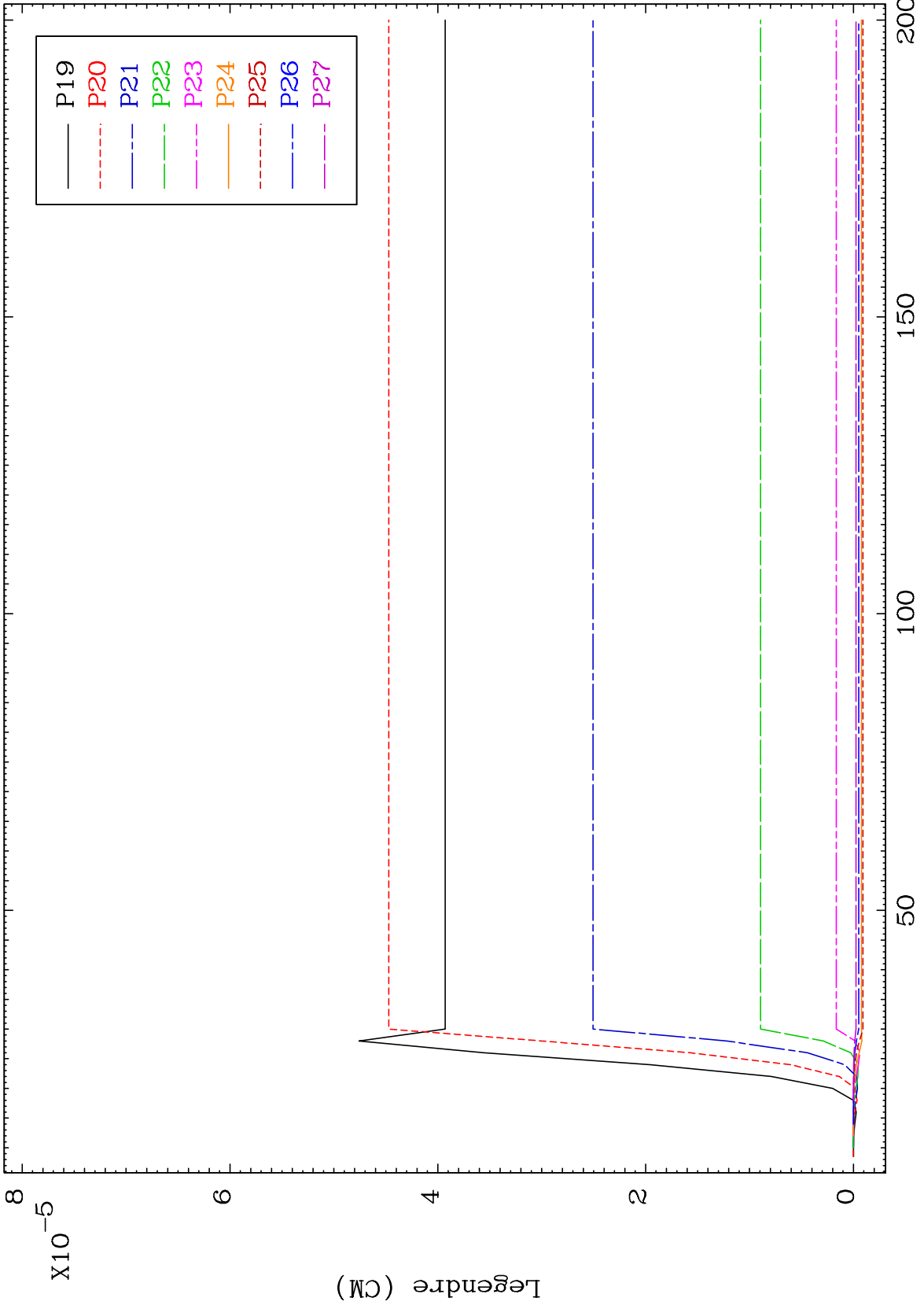


56 58-Ce-136

MAT 5825

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

58-Ce-136



57

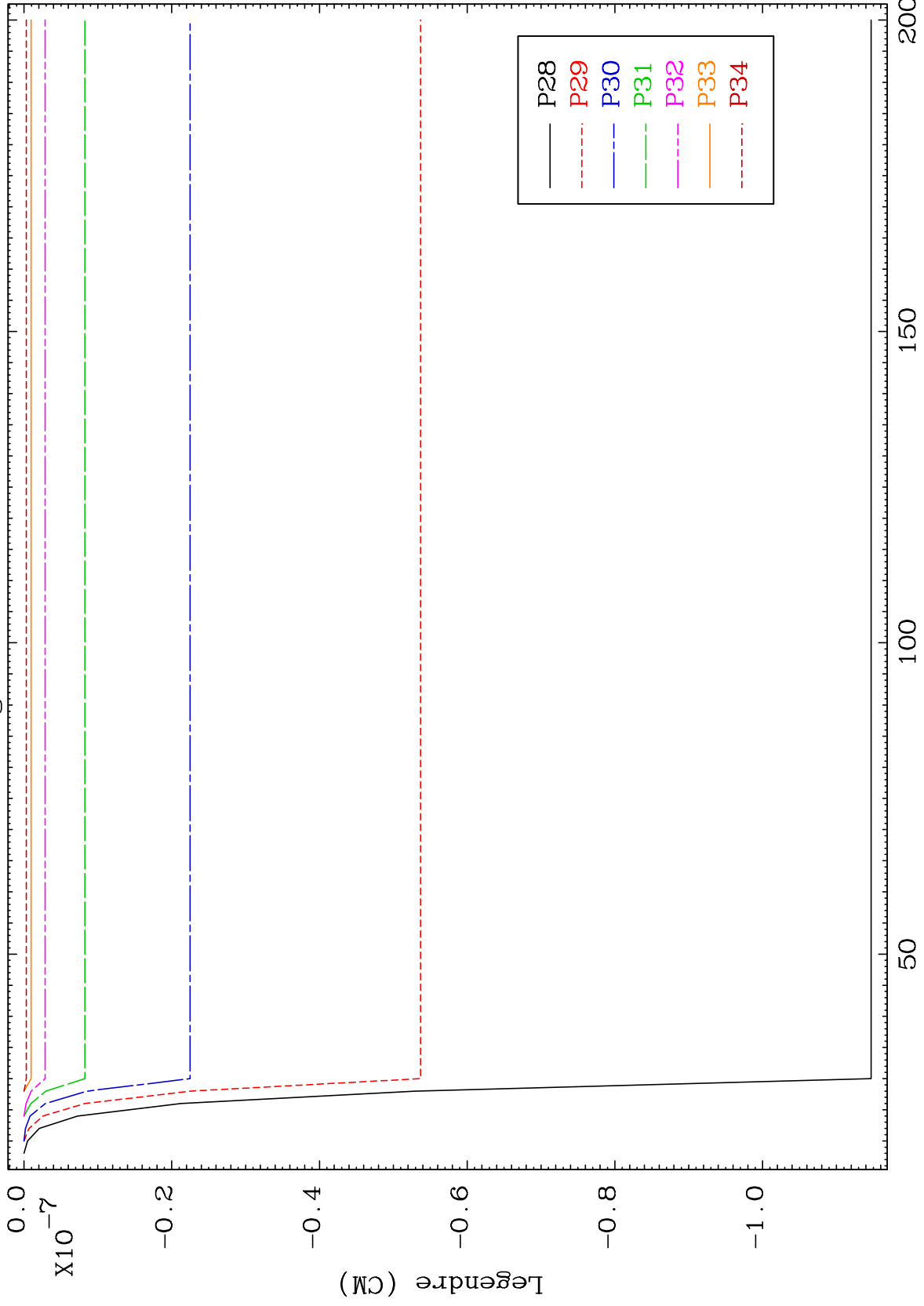
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



58-Ce-136

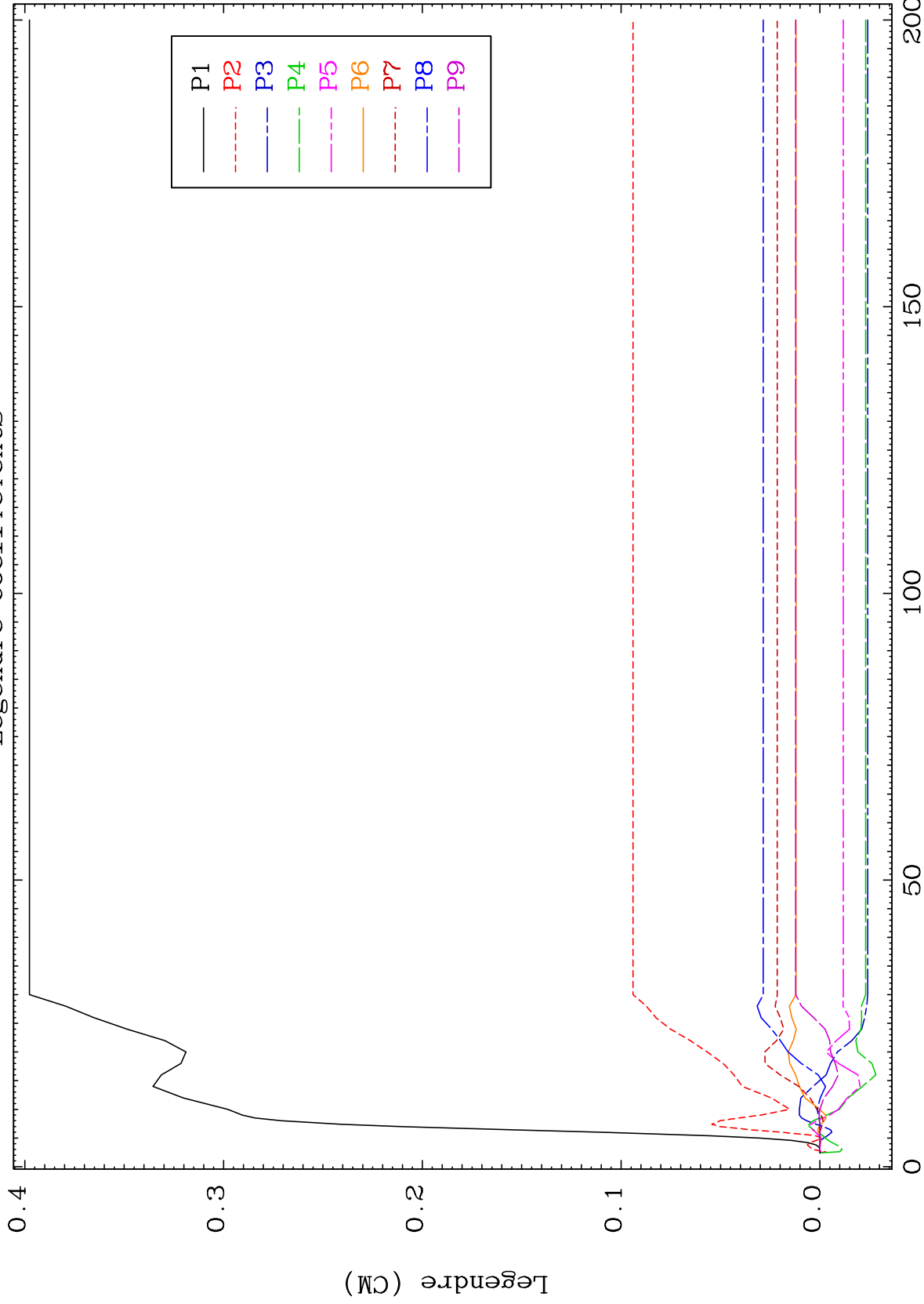
Incident Energy (MeV)

58

MAT 5825

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

58-Ce-136



59

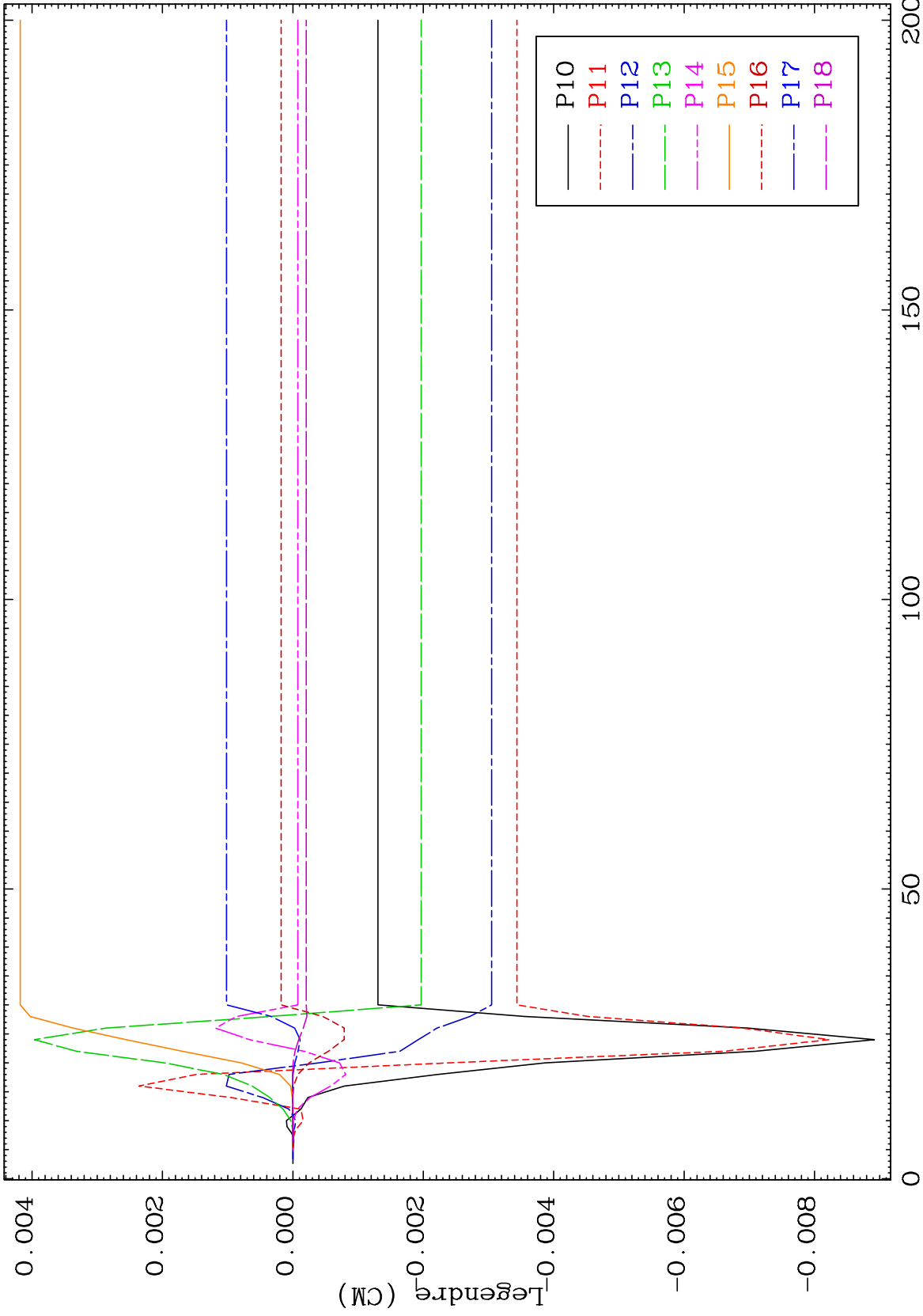
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



60

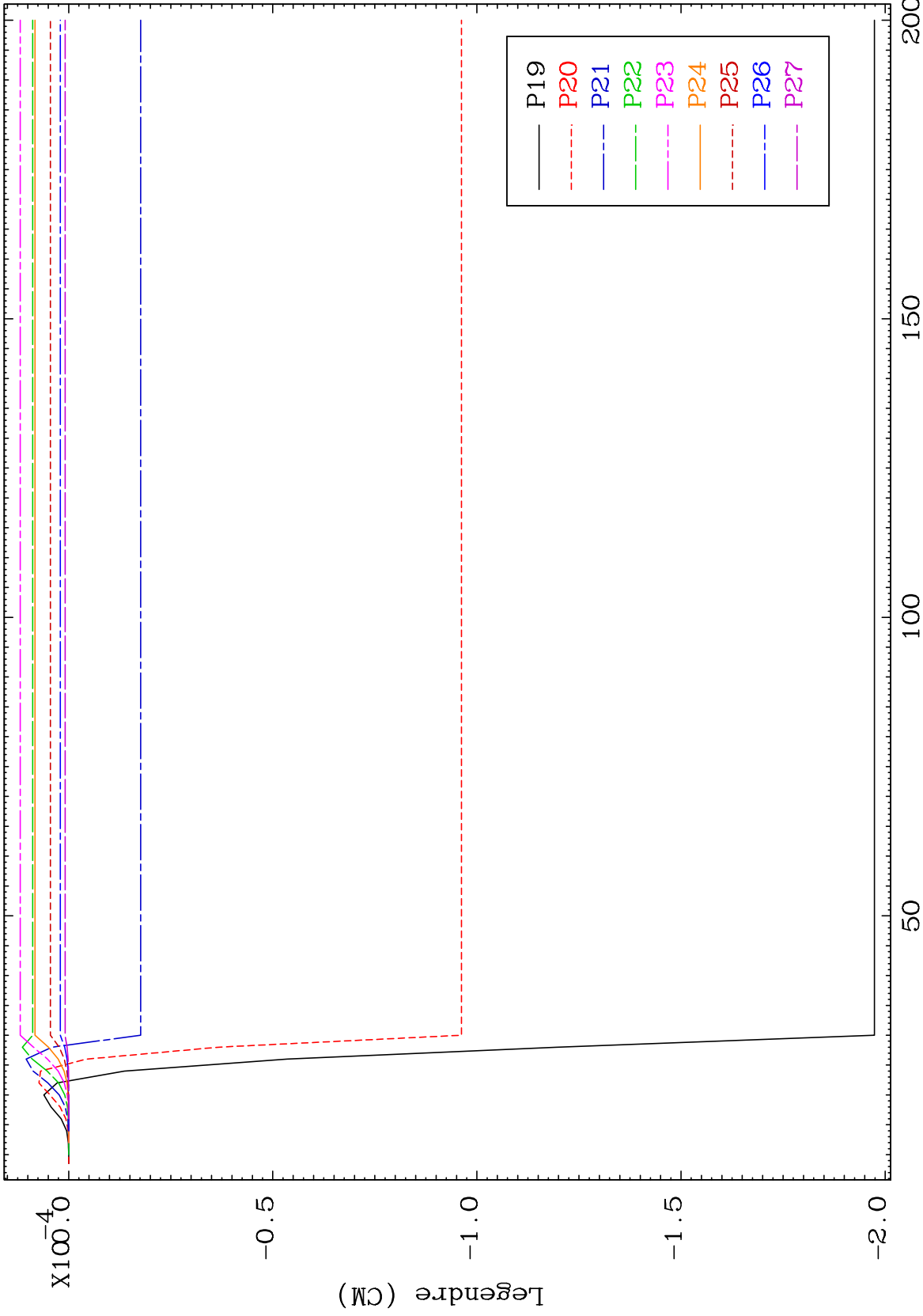
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



61

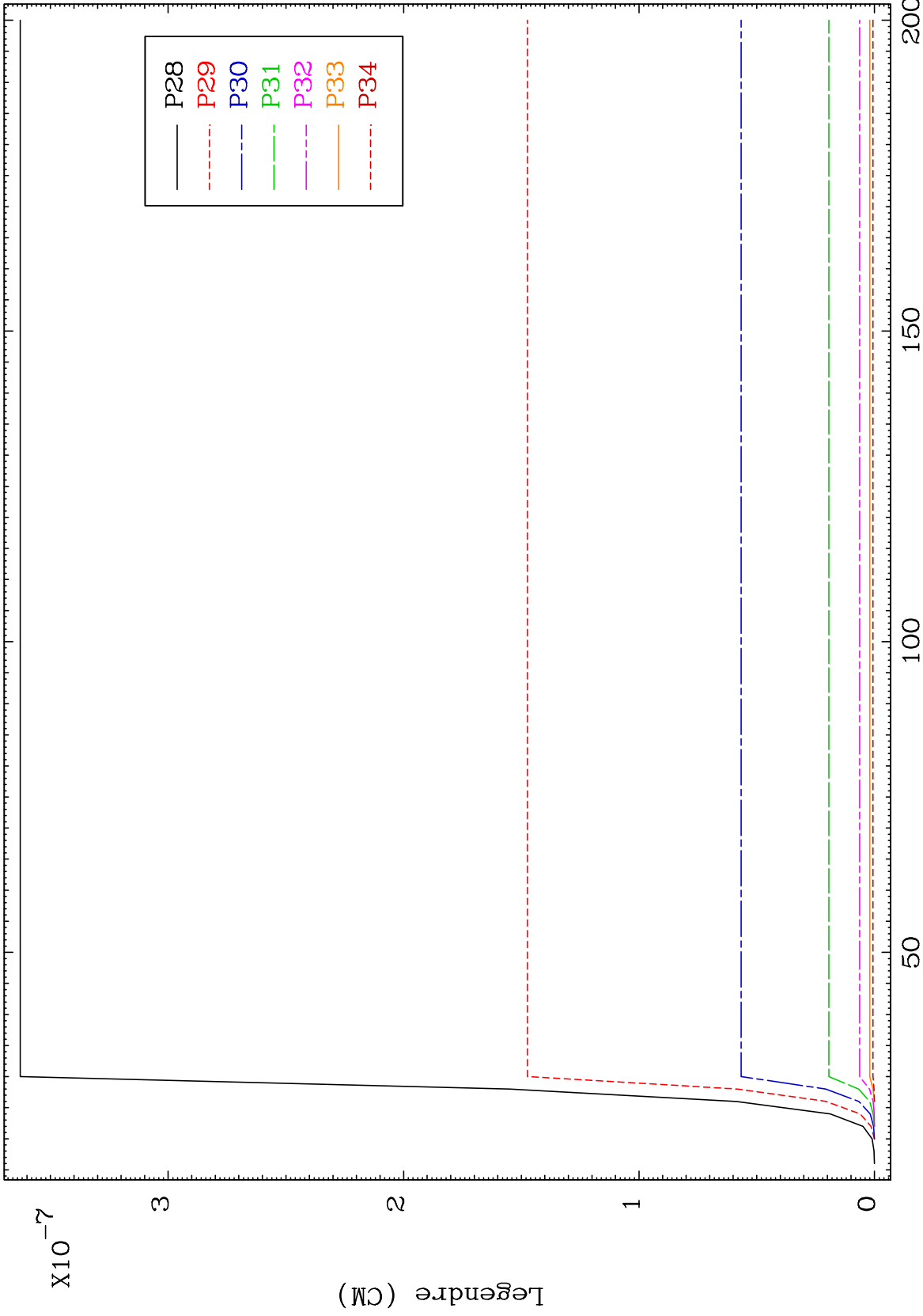
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



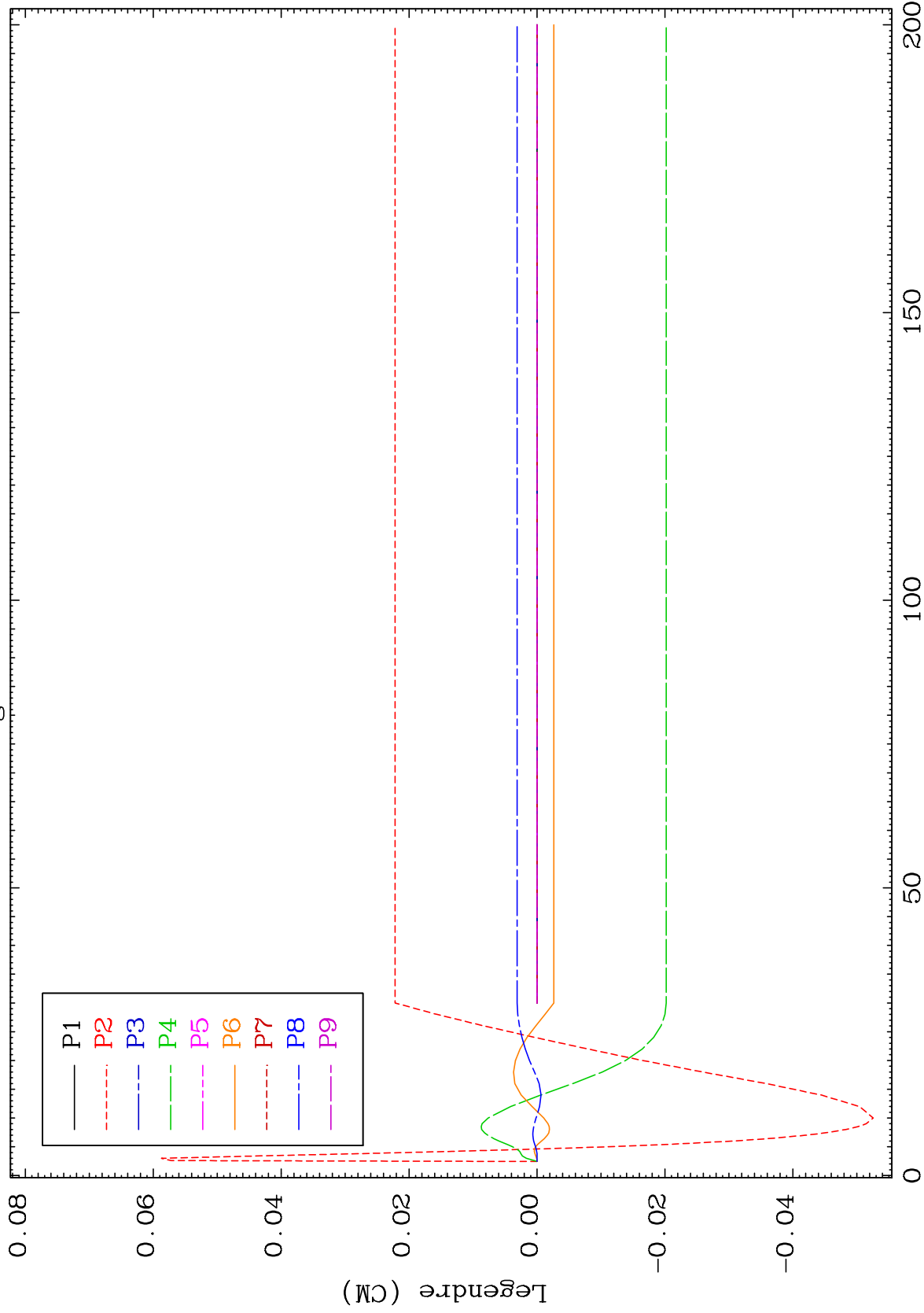
62

58-Ce-136

MAT 5825

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

58-Ce-136



63

Incident Energy (MeV)

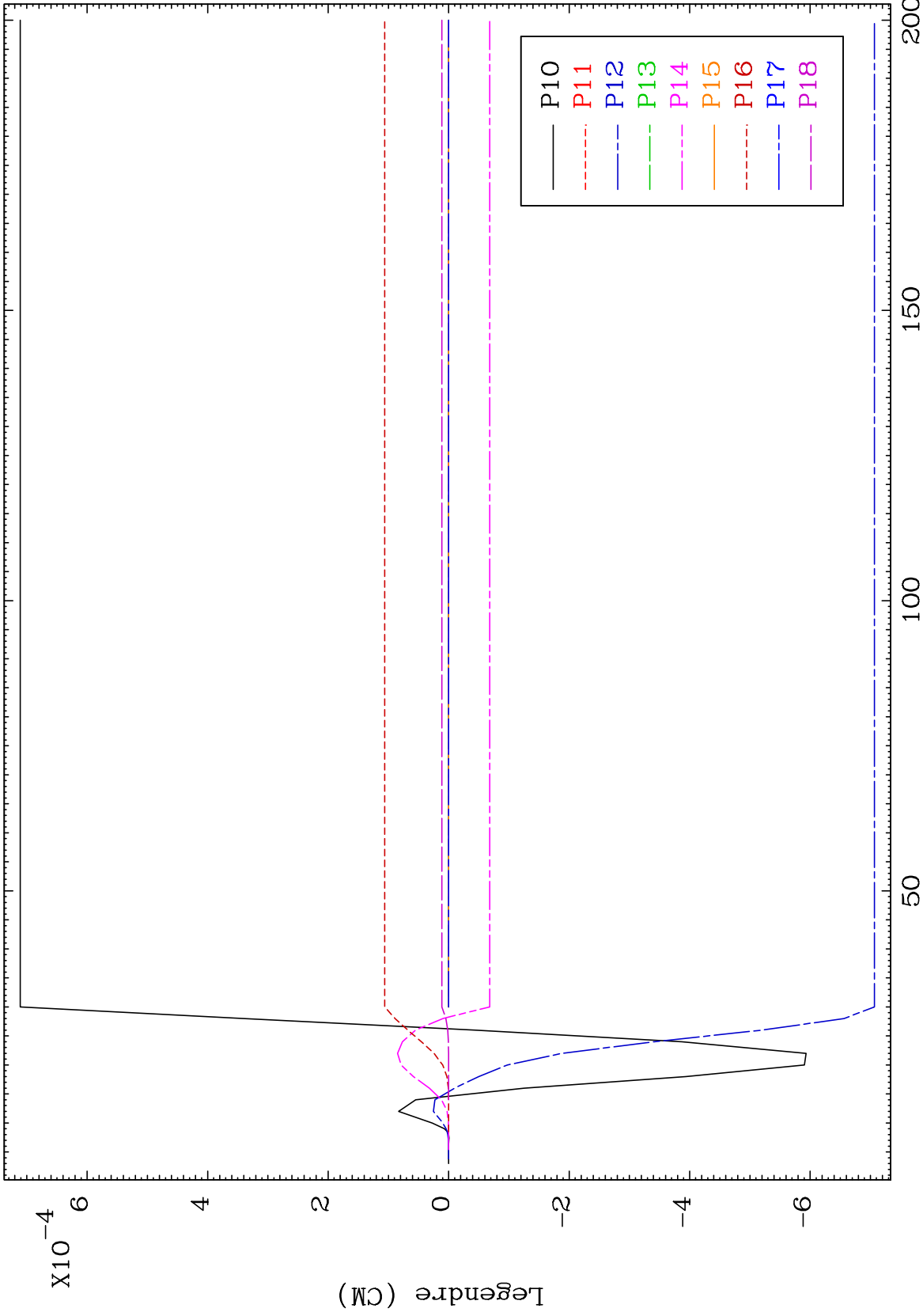
58-Ce-136



MAT 5825

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

58-Ce-136



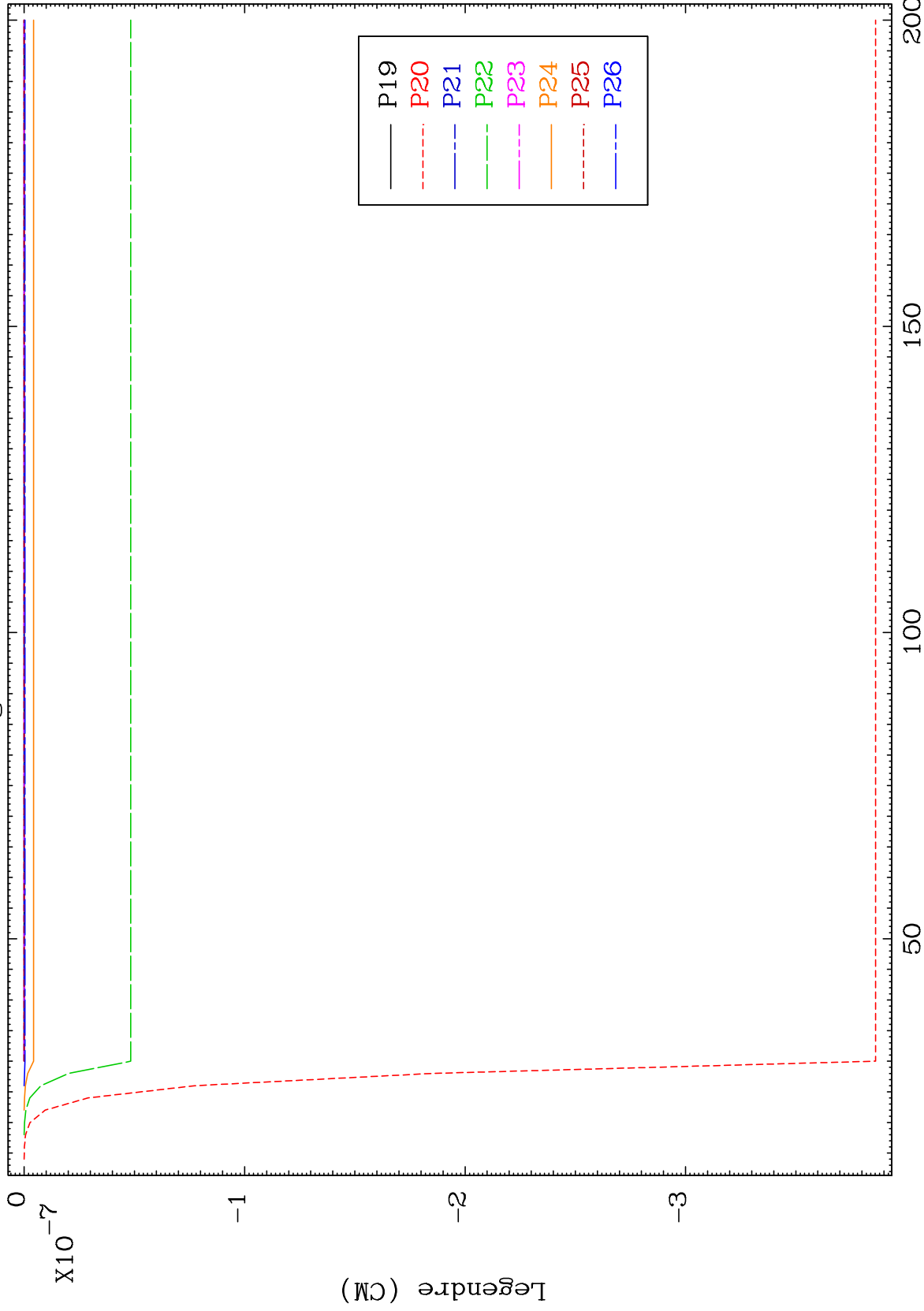
64

58-Ce-136

MAT 5825

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

58-Ce-136



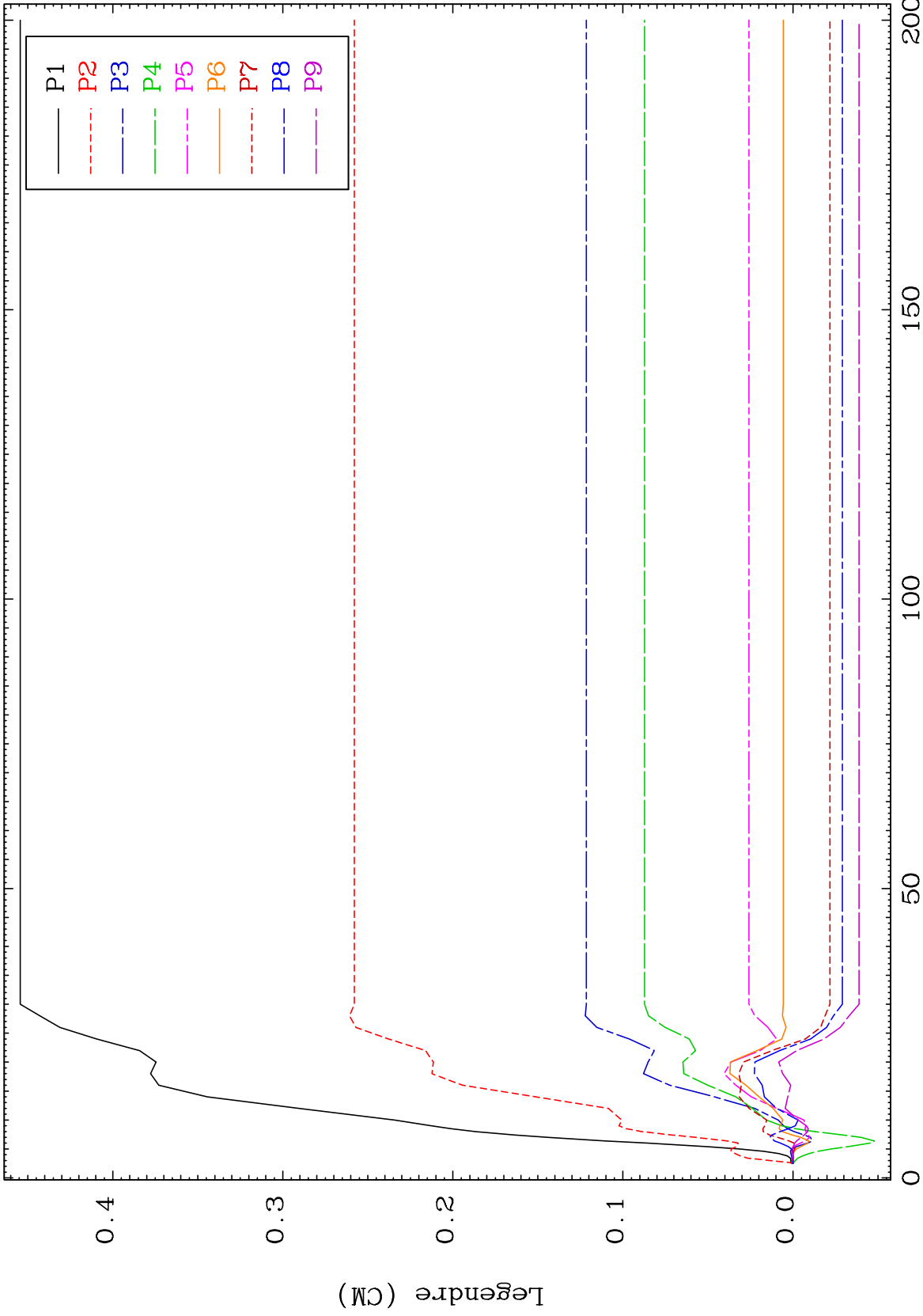
65

58-Ce-136

MAT 5825

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

58-Ce-136



66

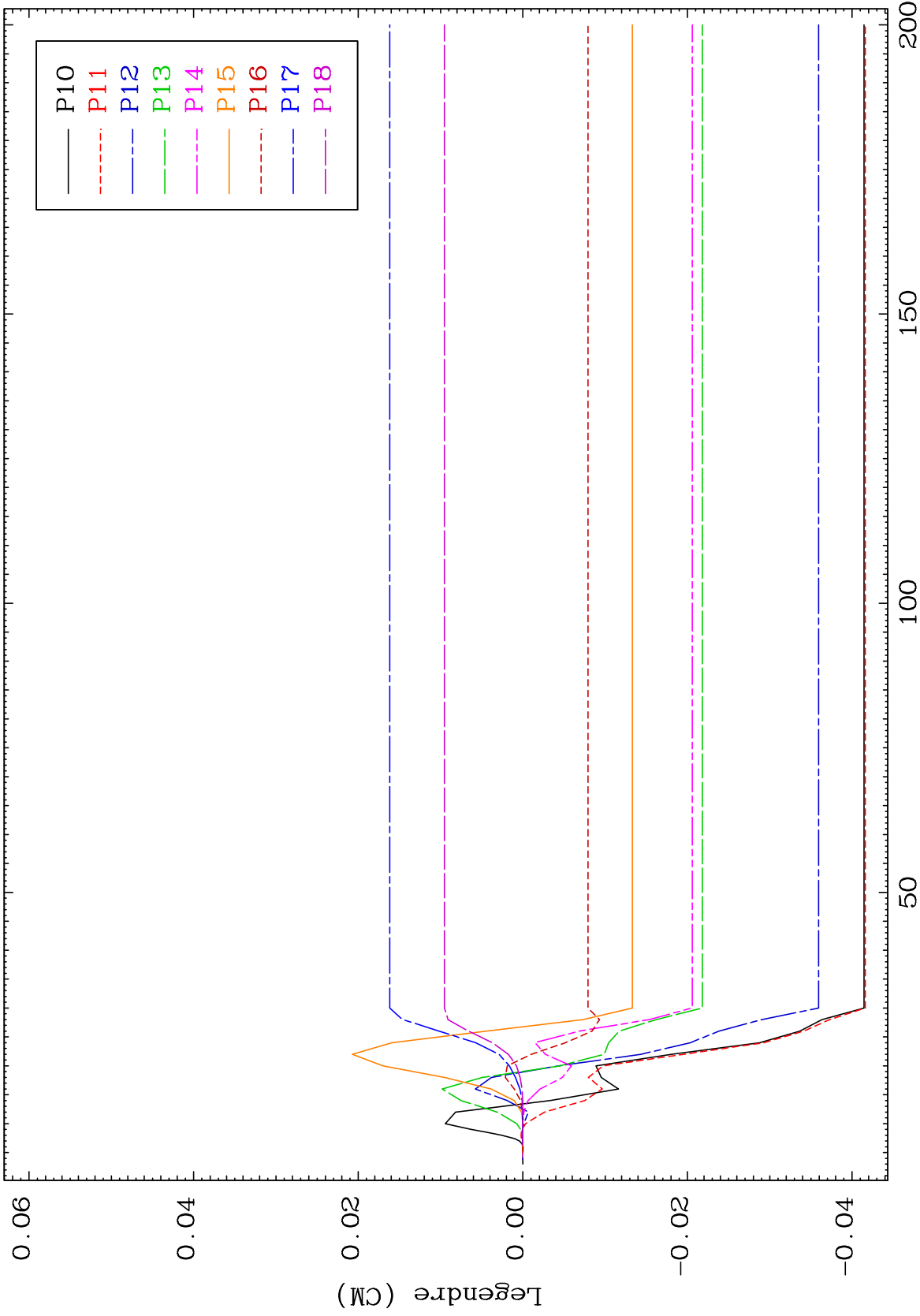
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



67

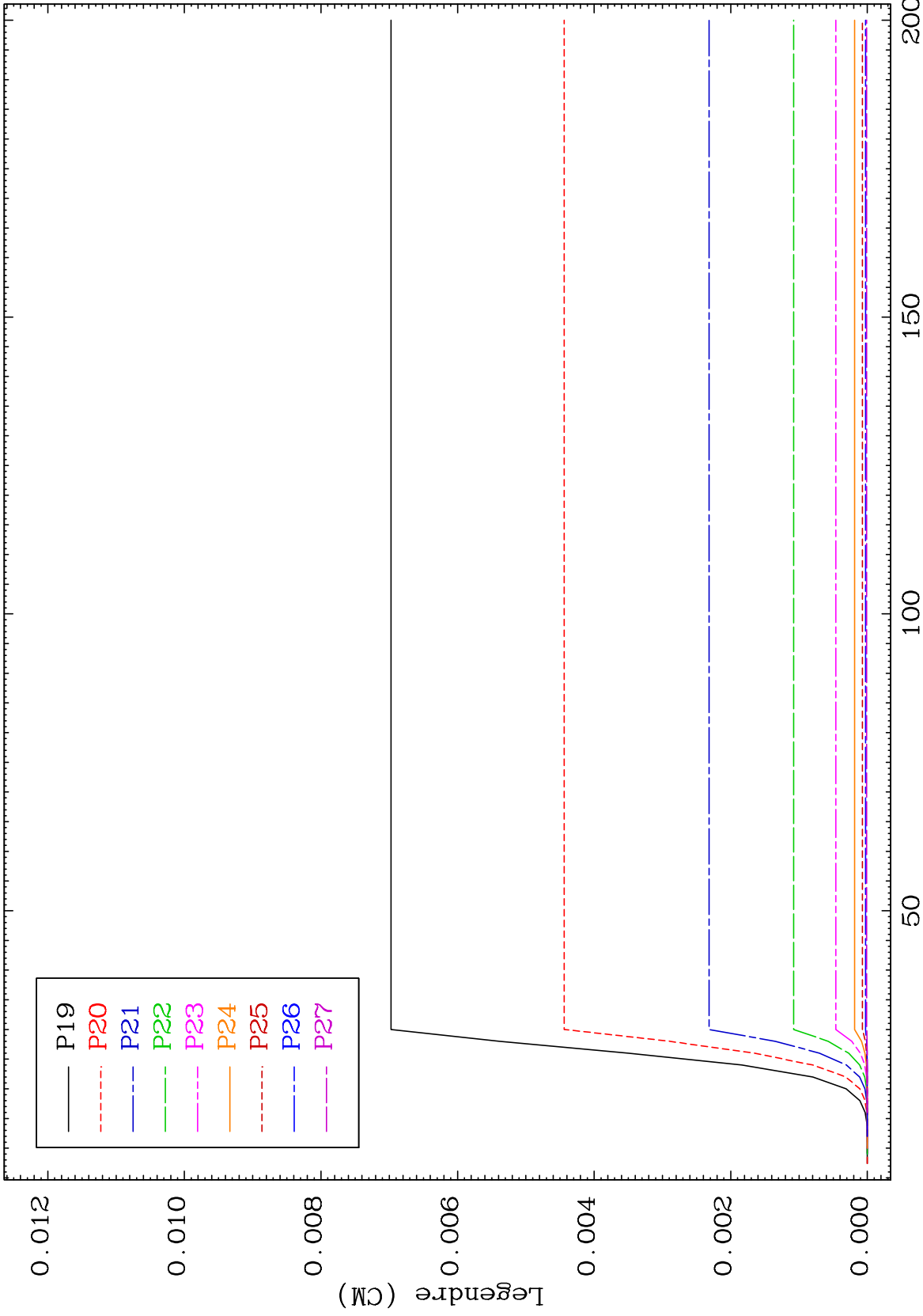
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



68

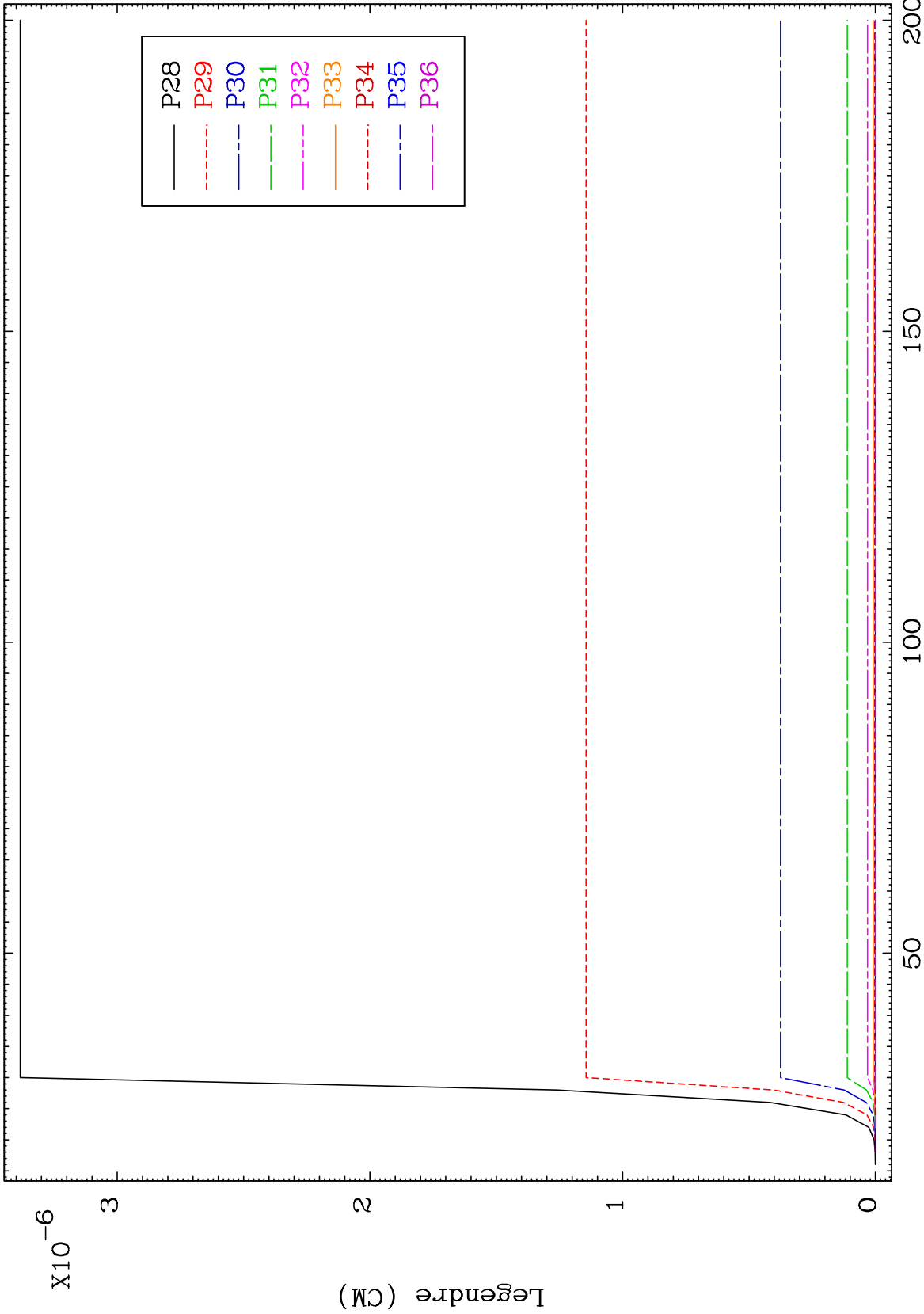
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



69

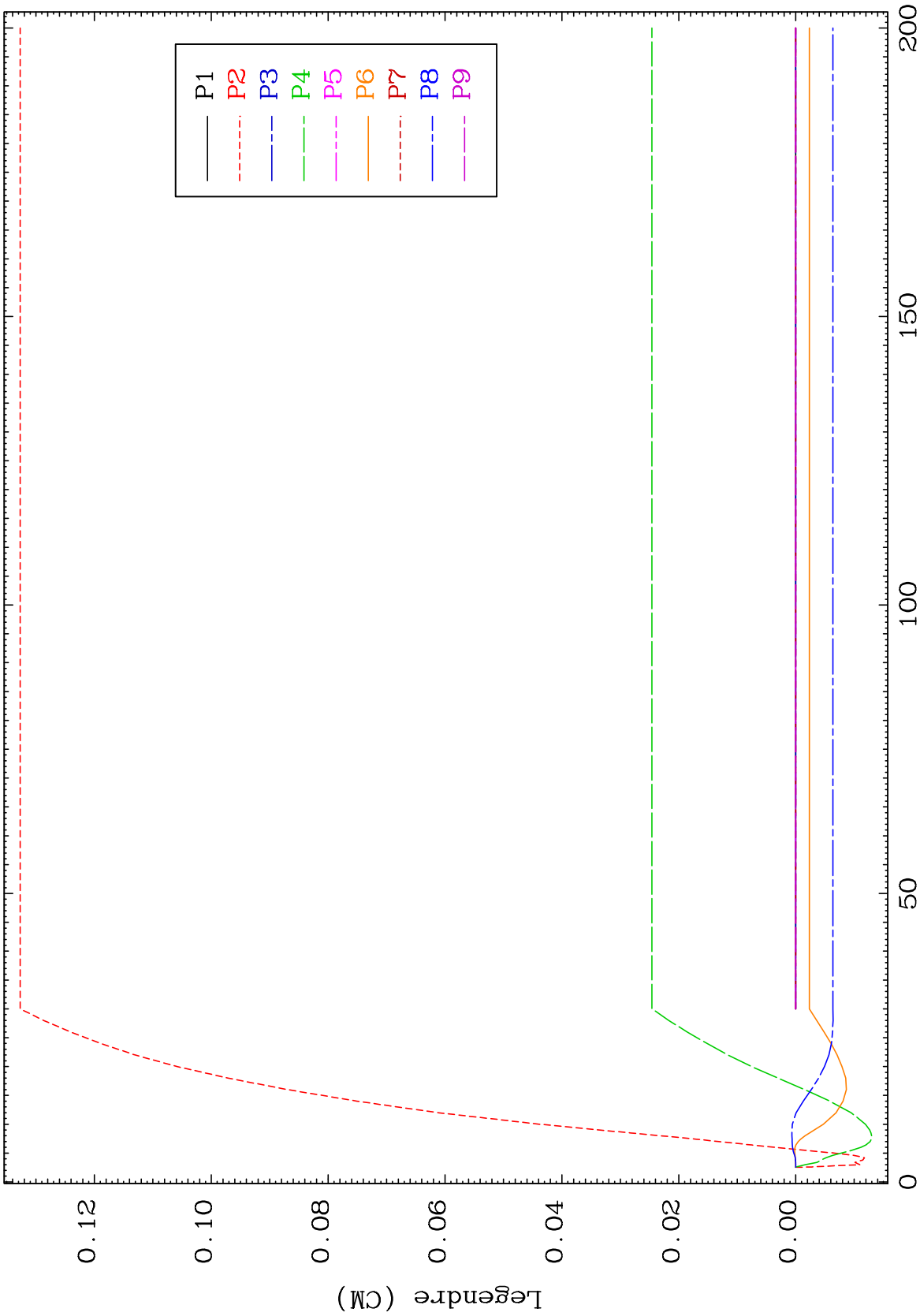
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



70

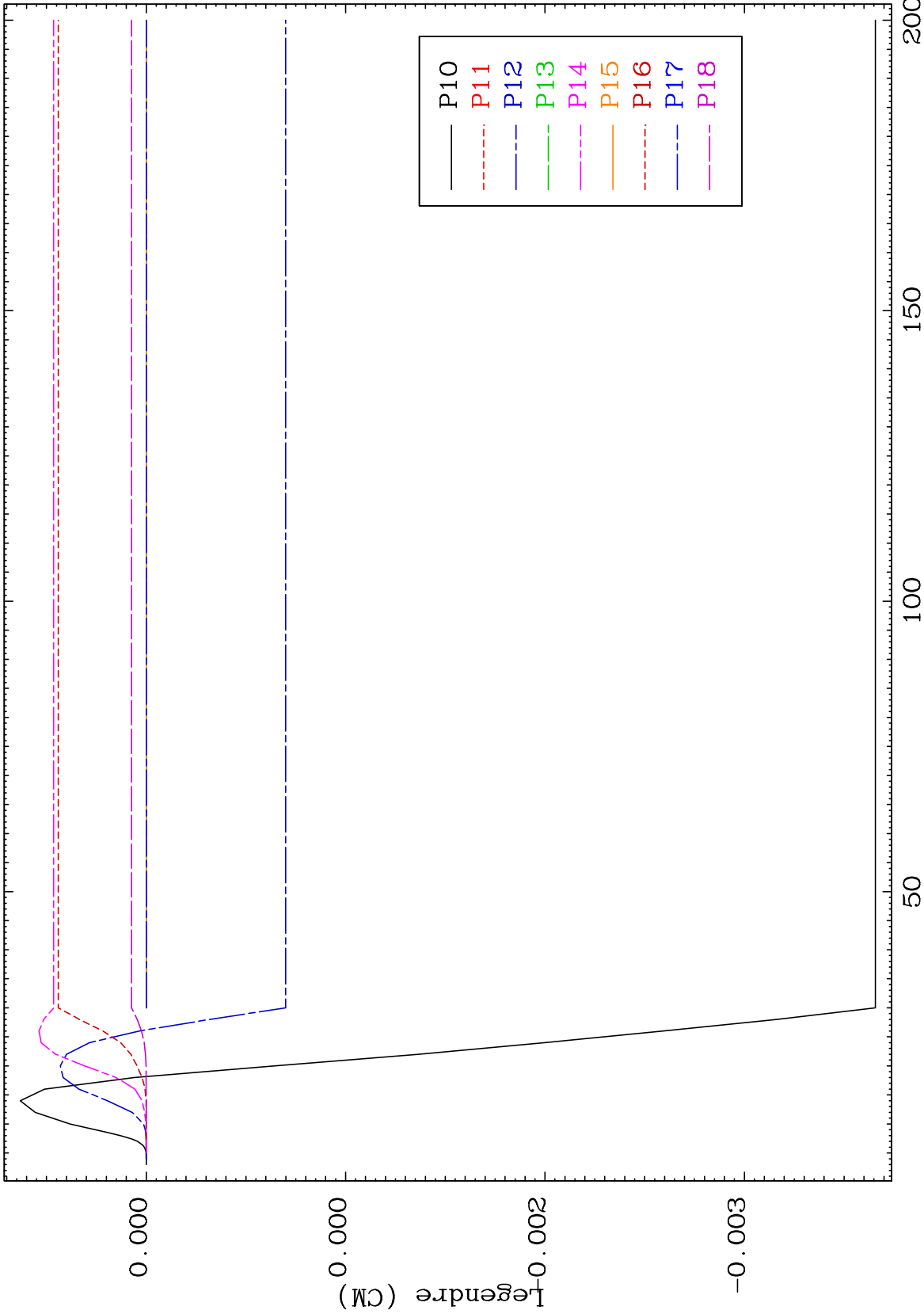
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



71

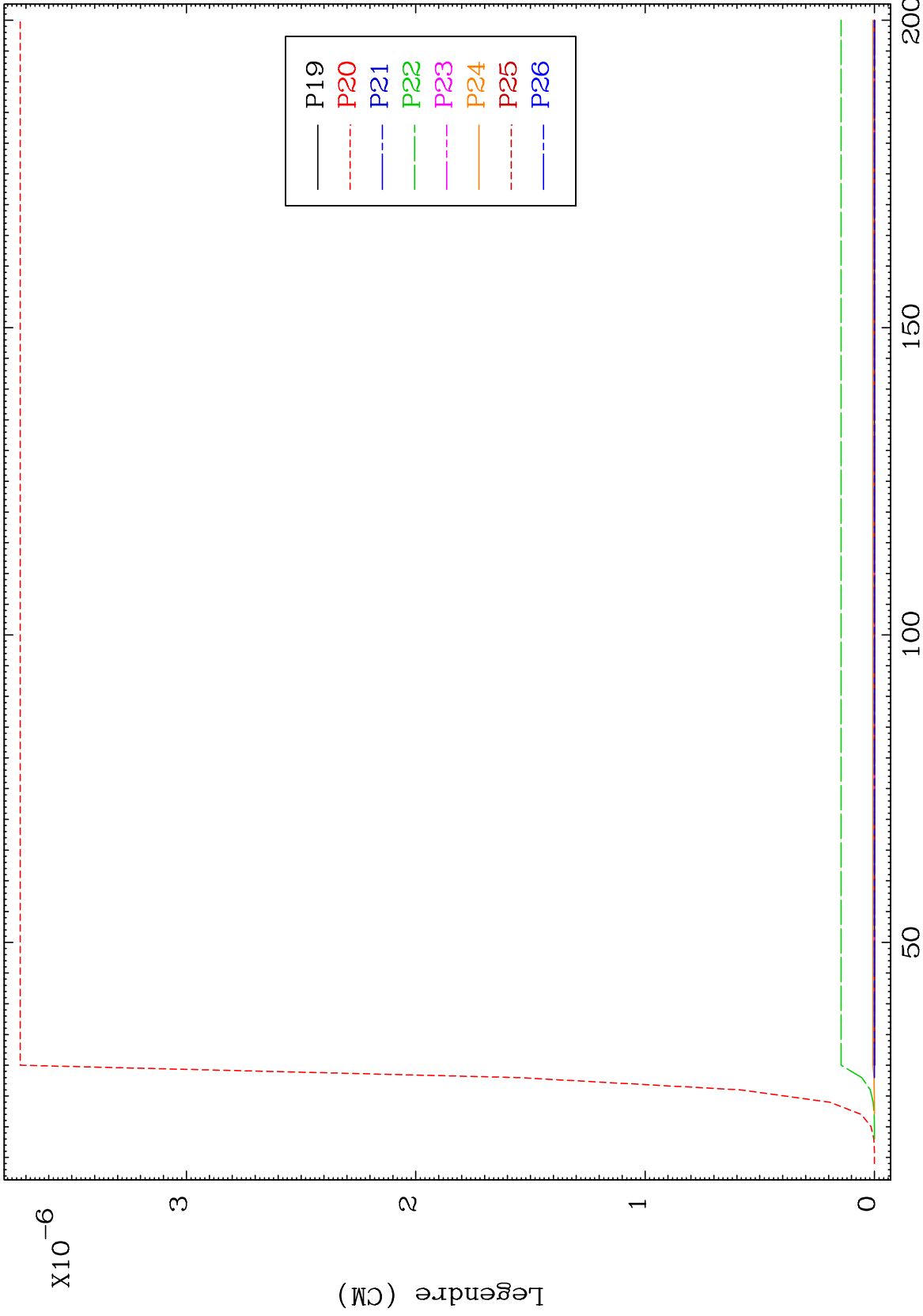
58-Ce-136



MAT 5825

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

58-Ce-136



72

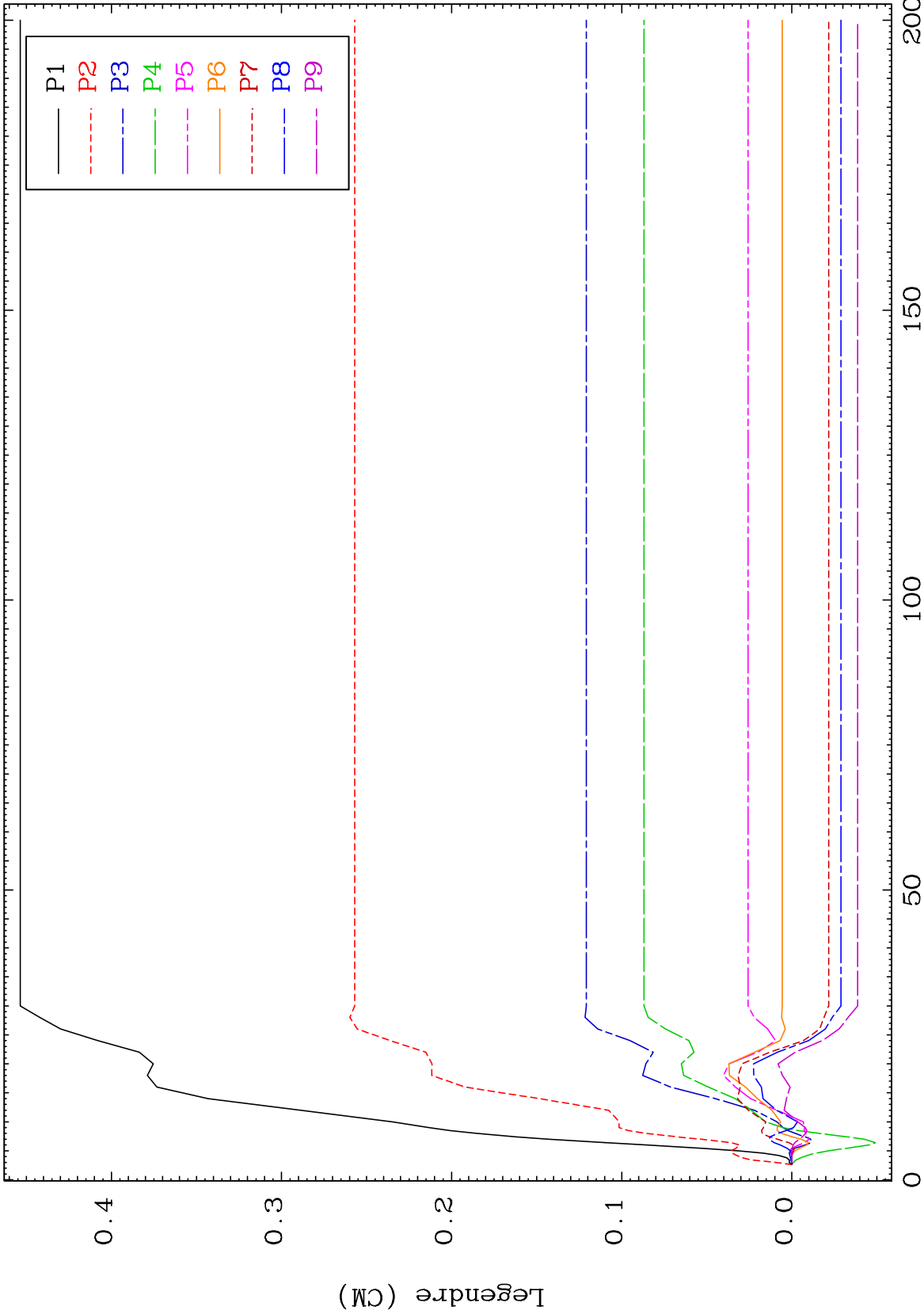
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



73

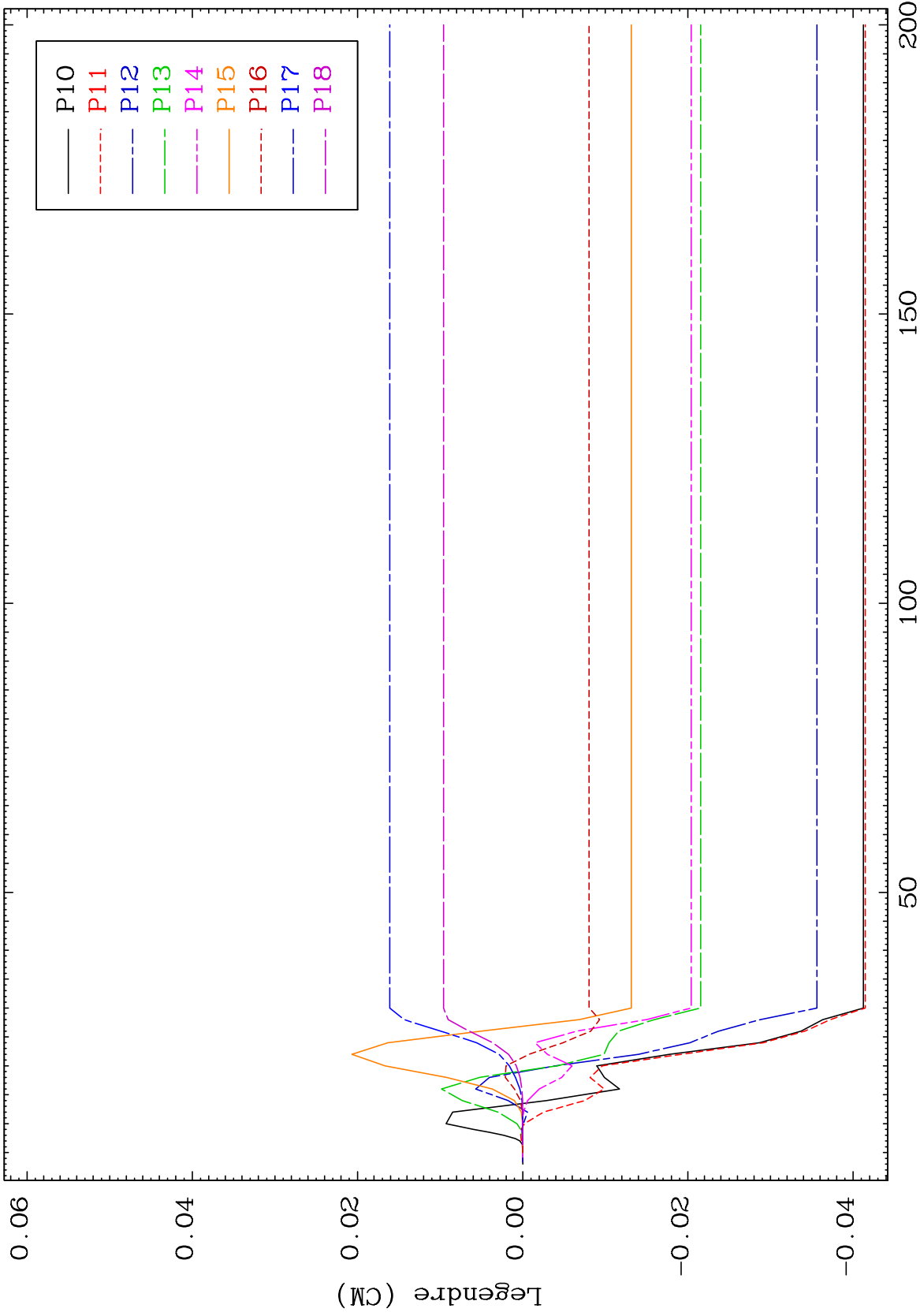
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



74

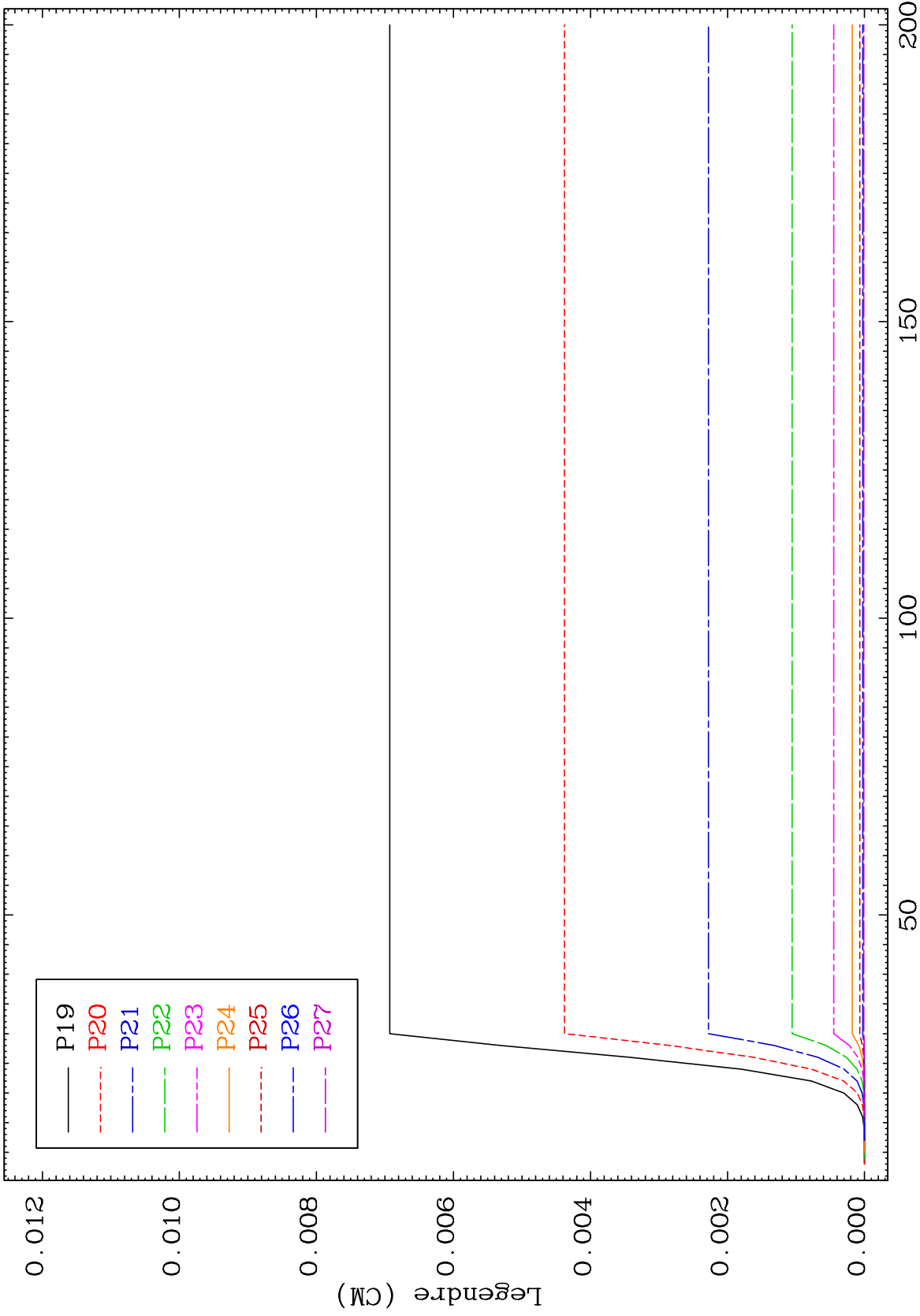
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



75

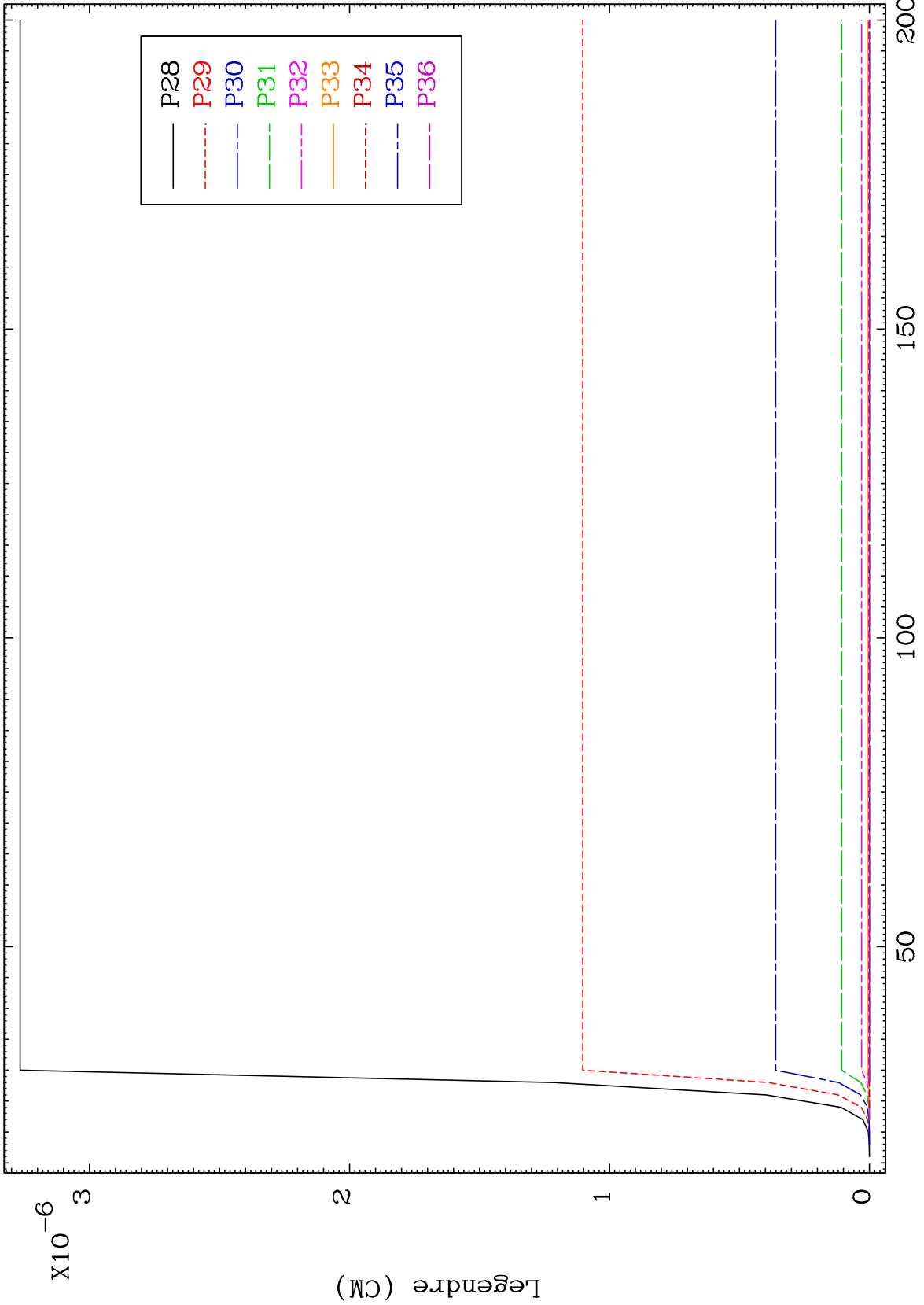
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



76

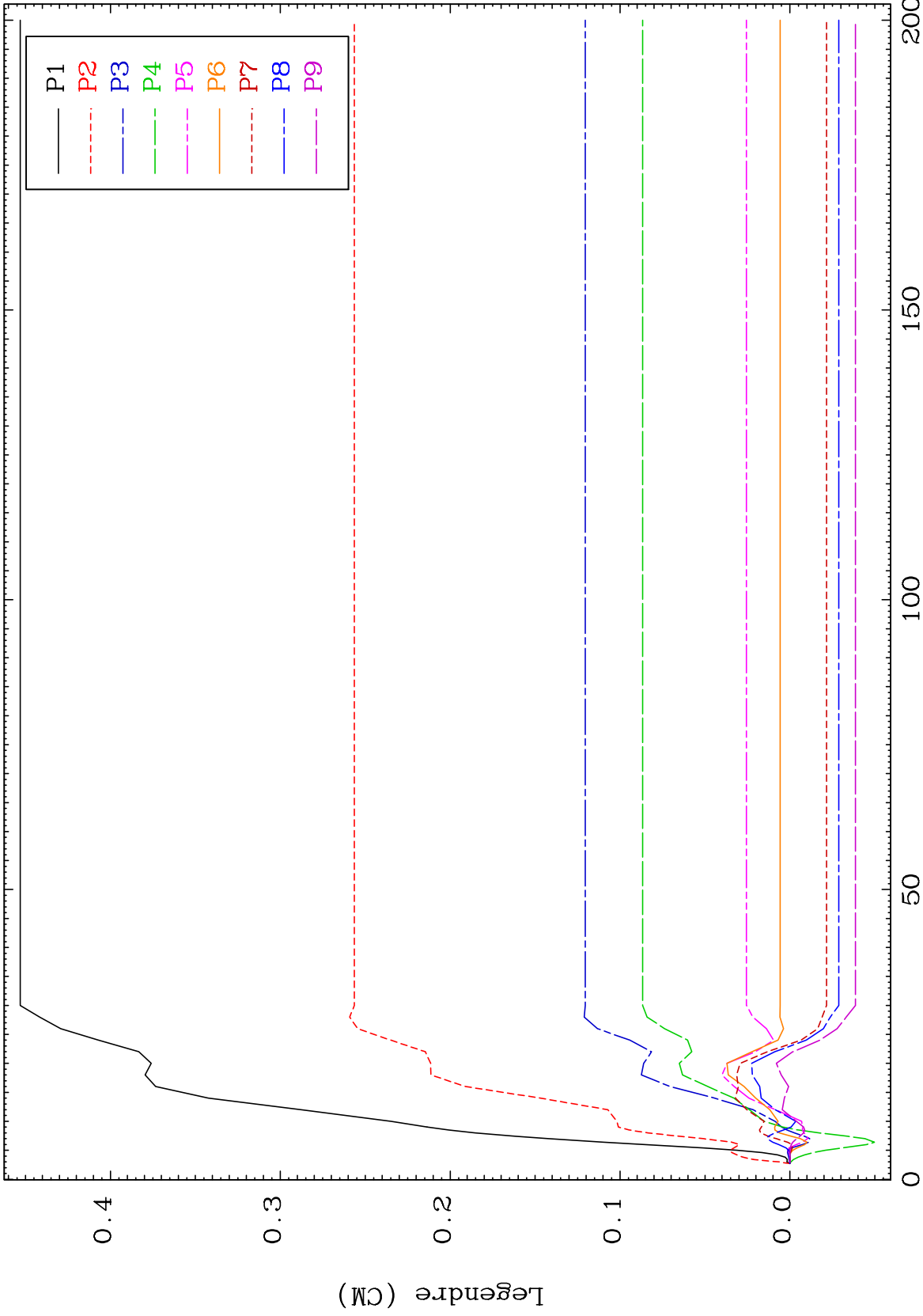
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



77

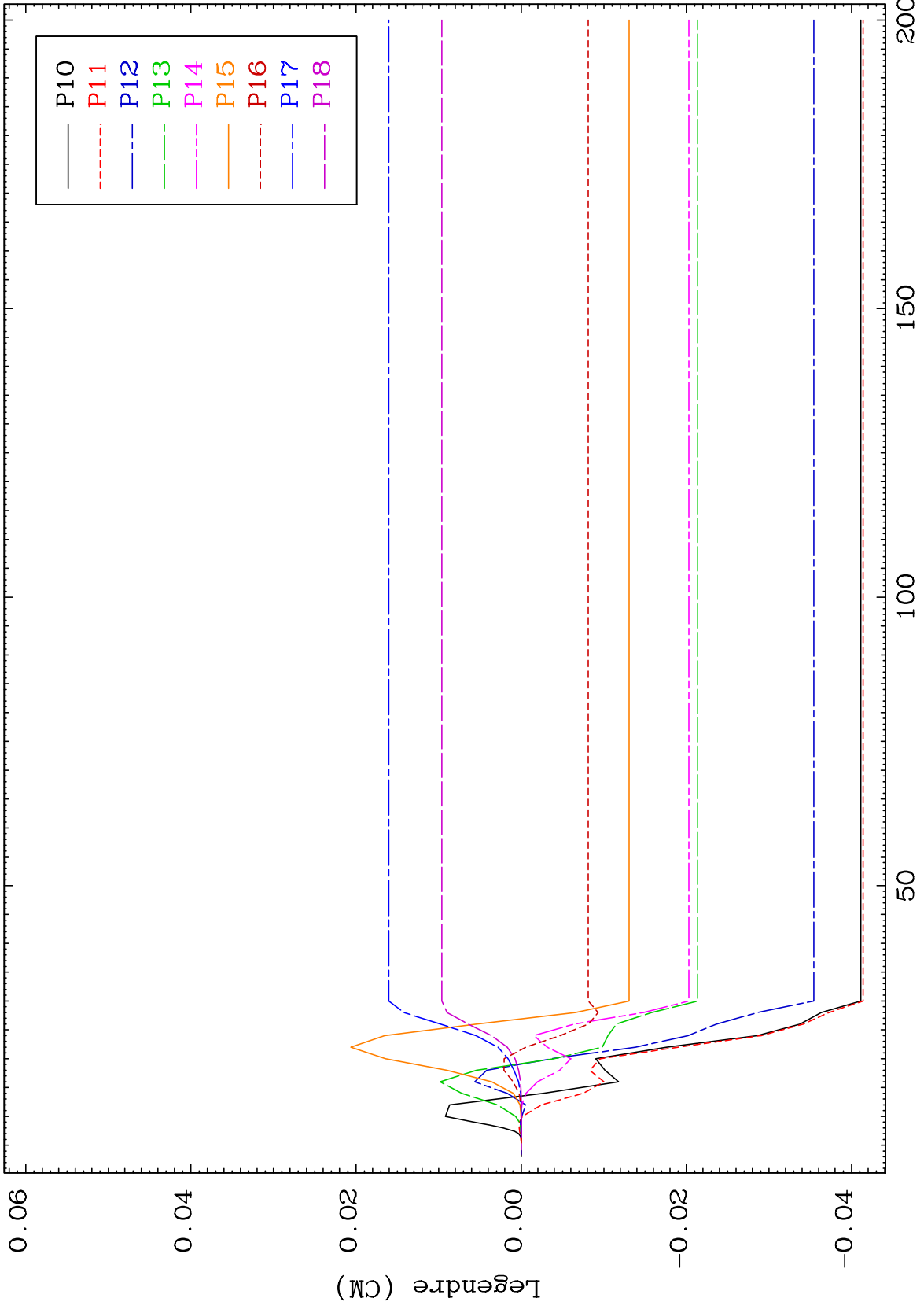
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



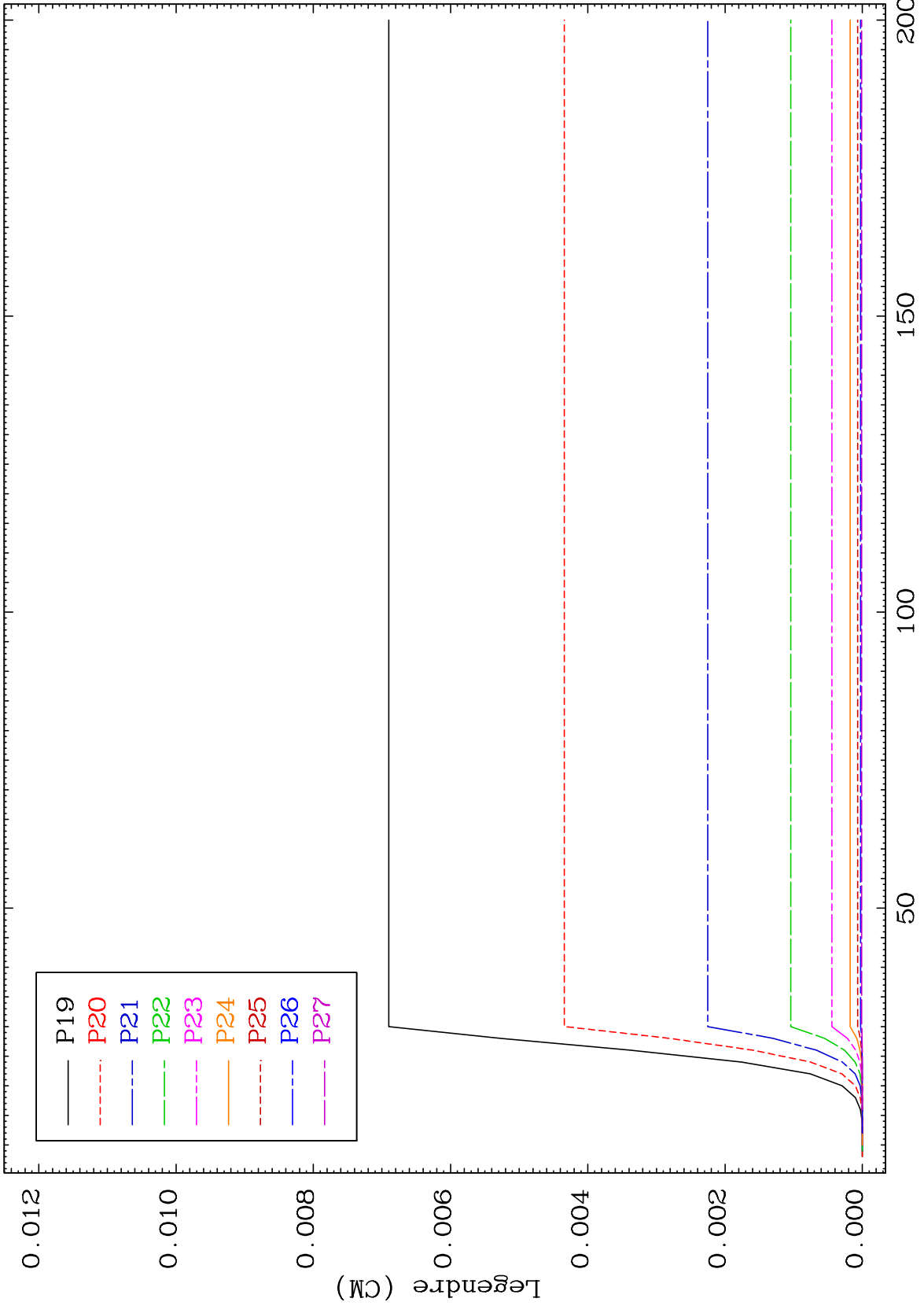
78

58-Ce-136

MAT 5825

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

58-Ce-136



79

Incident Energy (MeV)

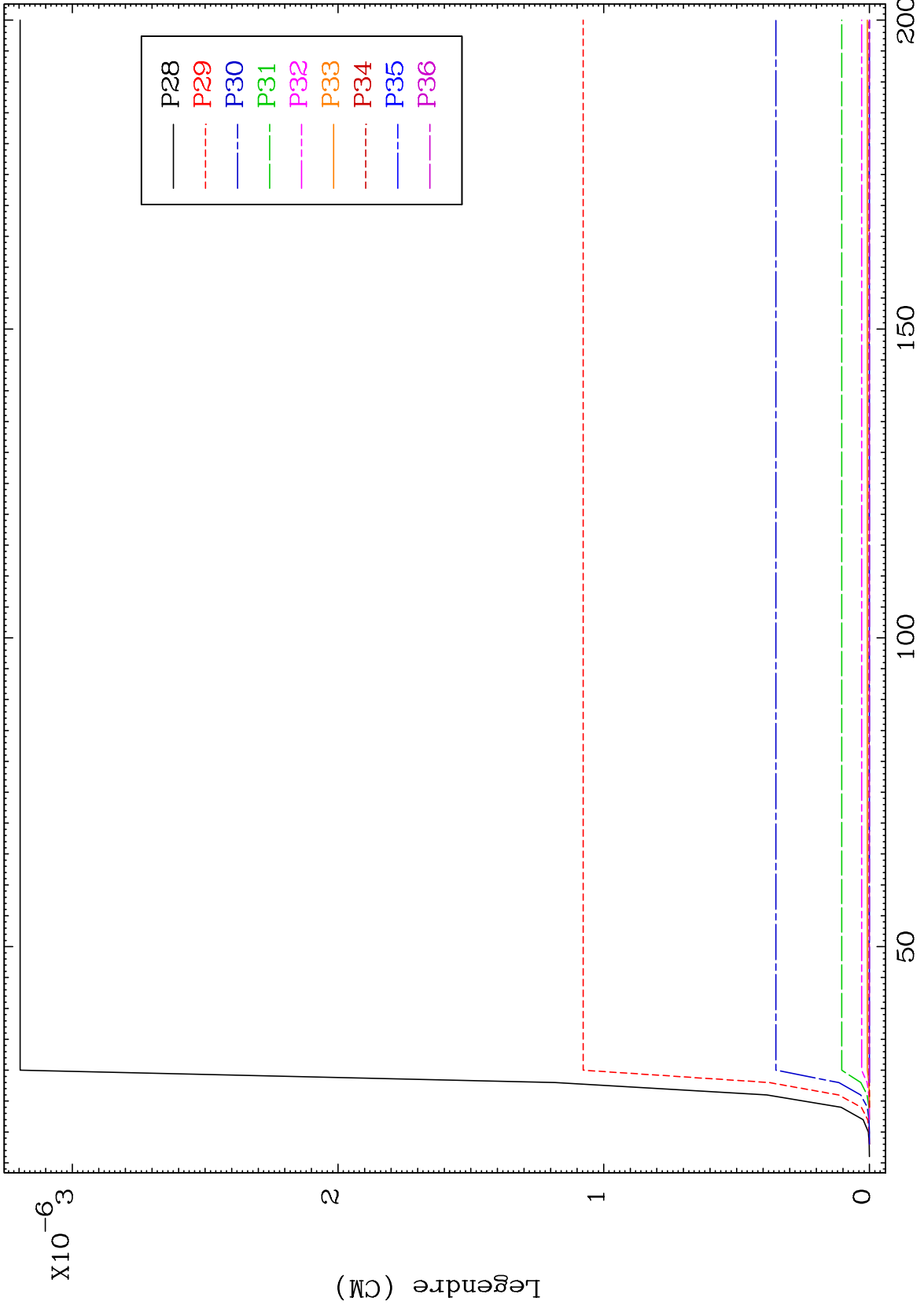
58-Ce-136



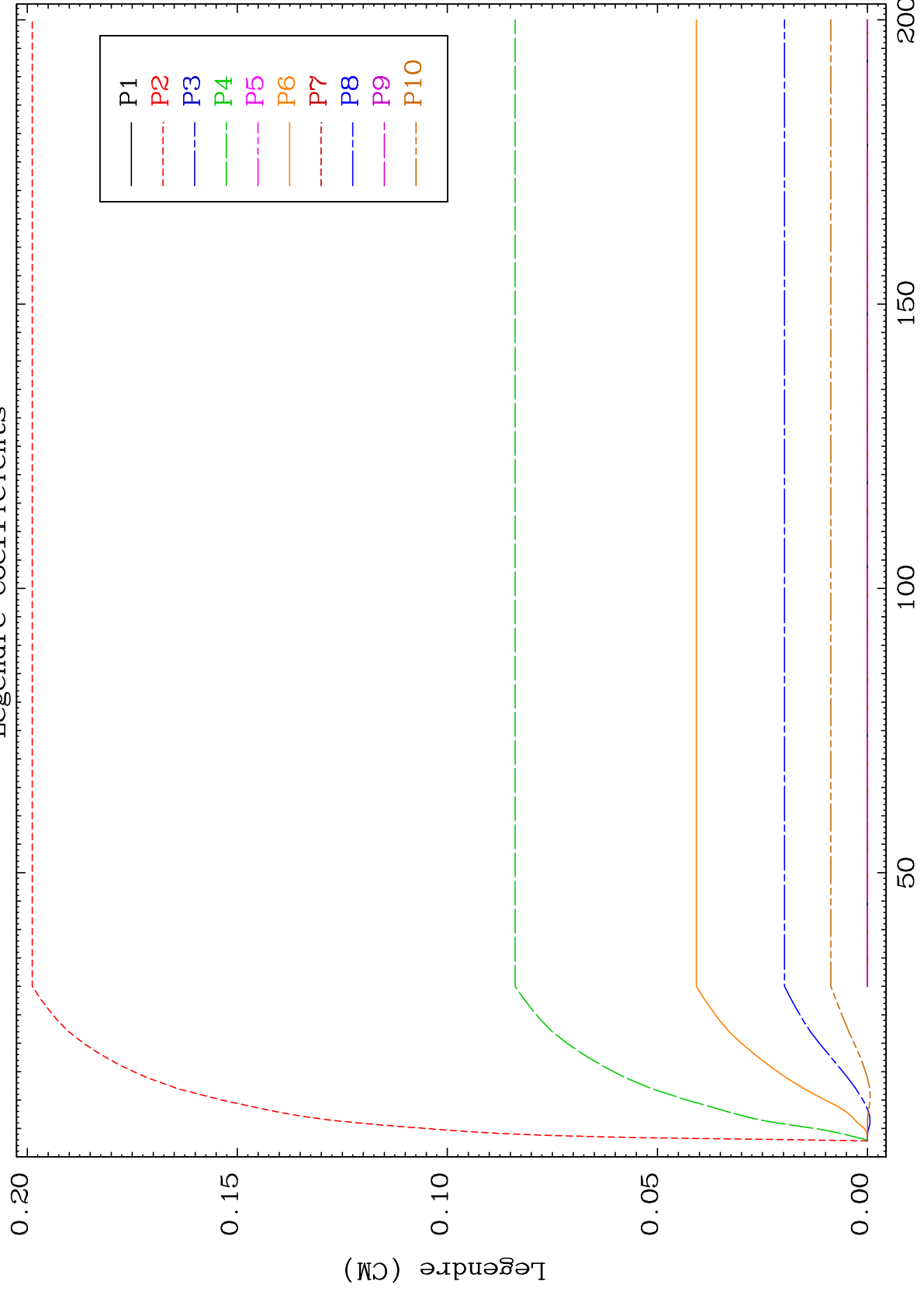
MAT 5825

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

58-Ce-136



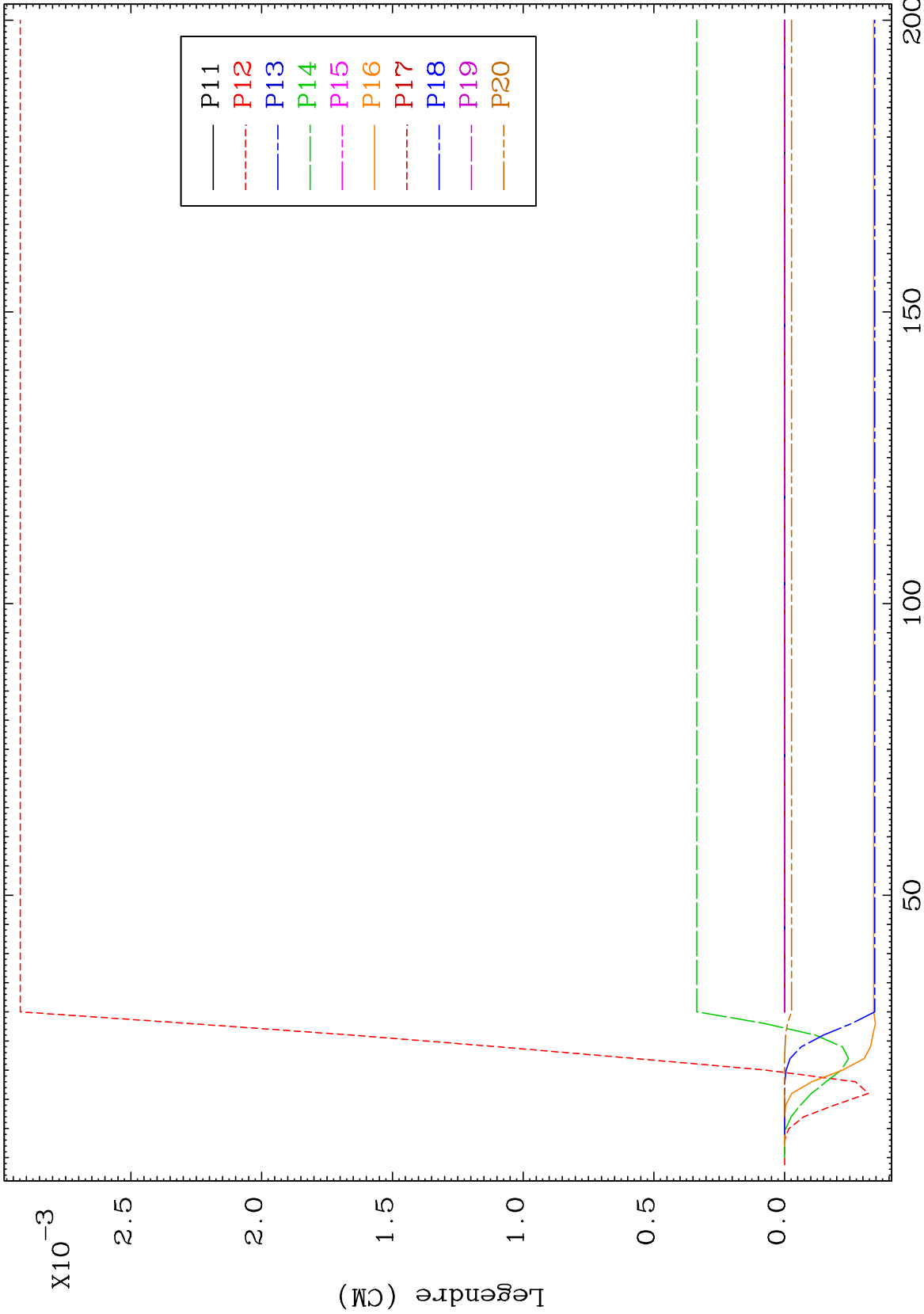
MAT 5825 MT= 67 (n,n') Level Legendre Coefficients 58-Ce-136



MAT 5825

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

58-Ce-136



82

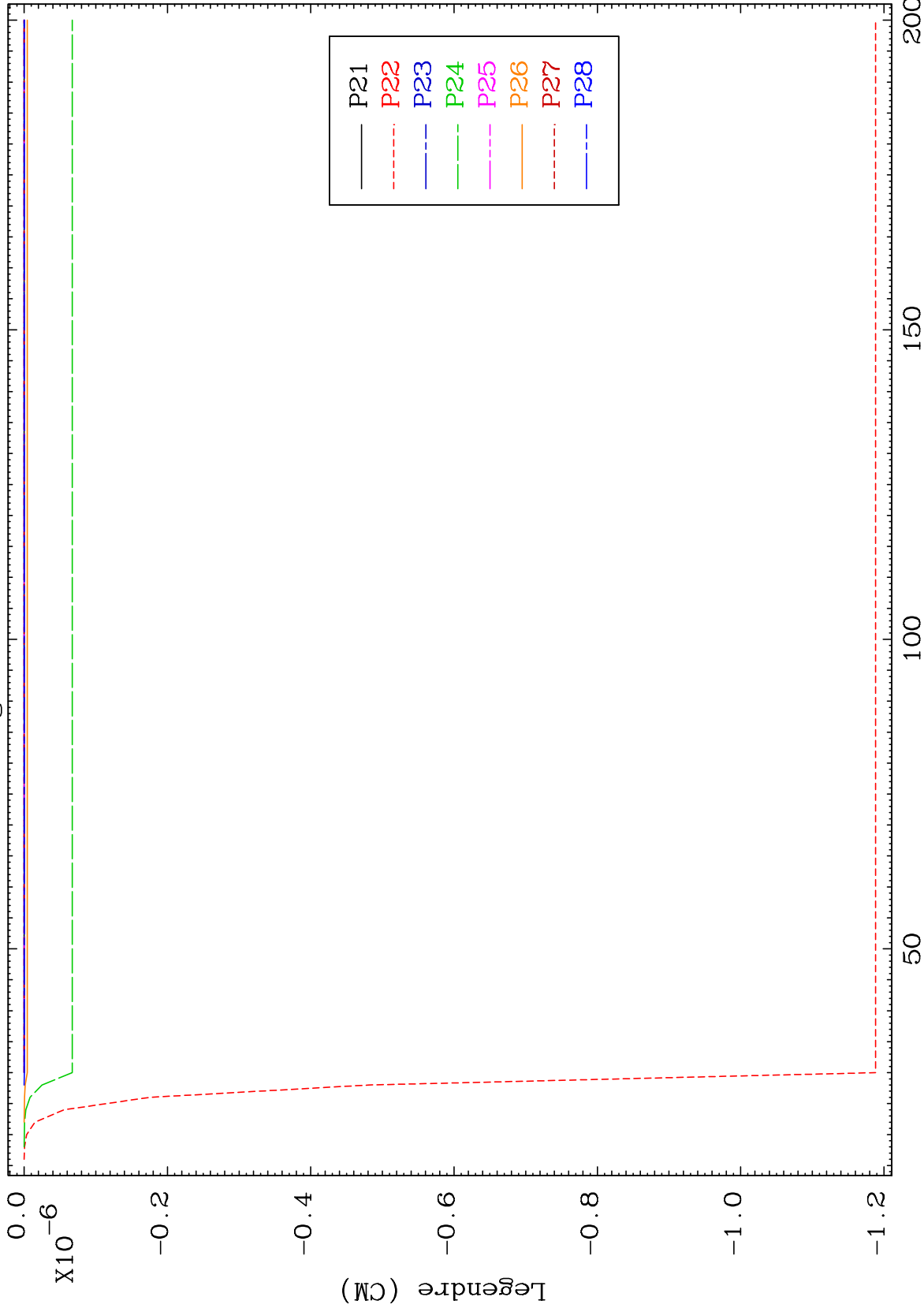
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



83

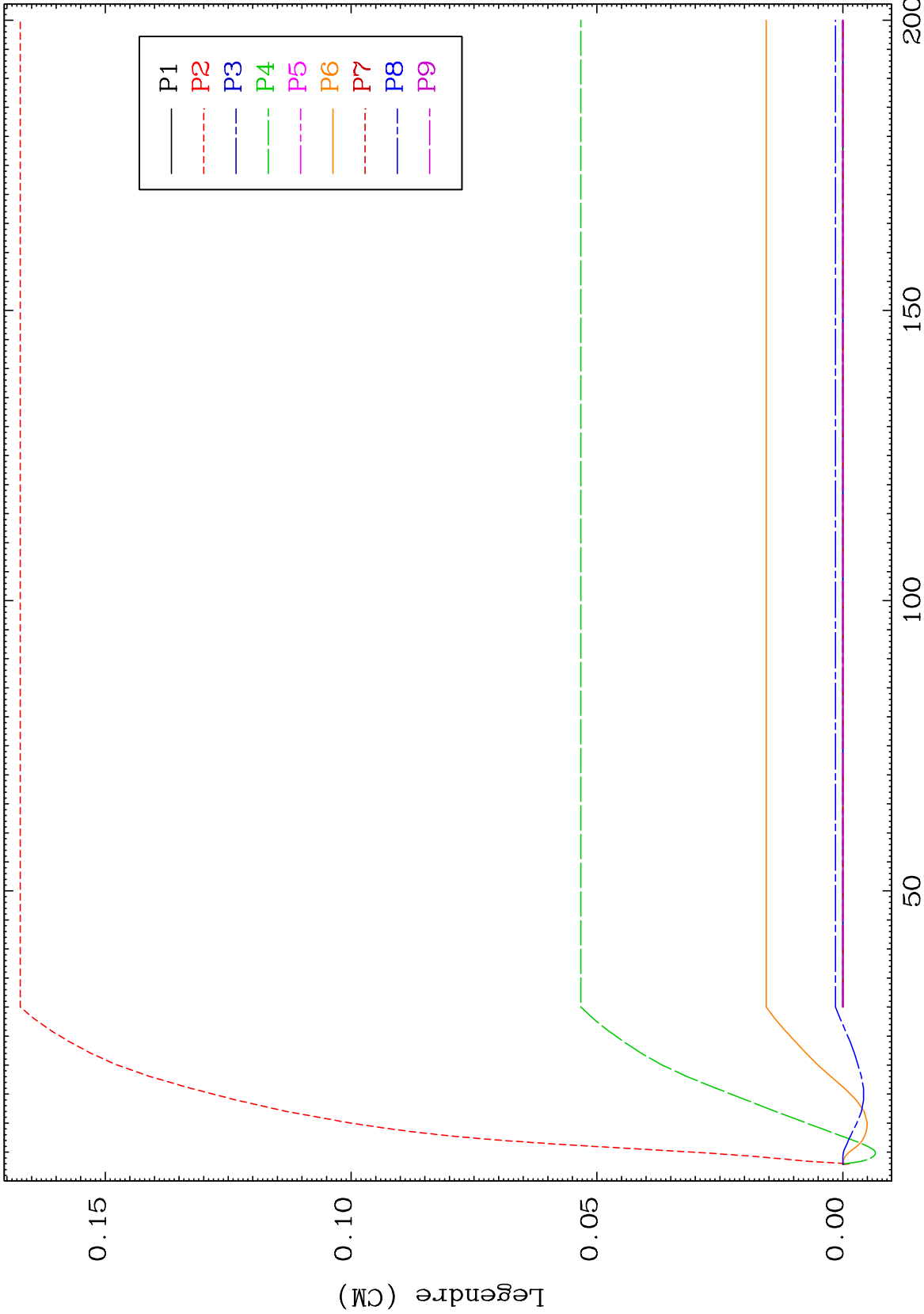
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



84

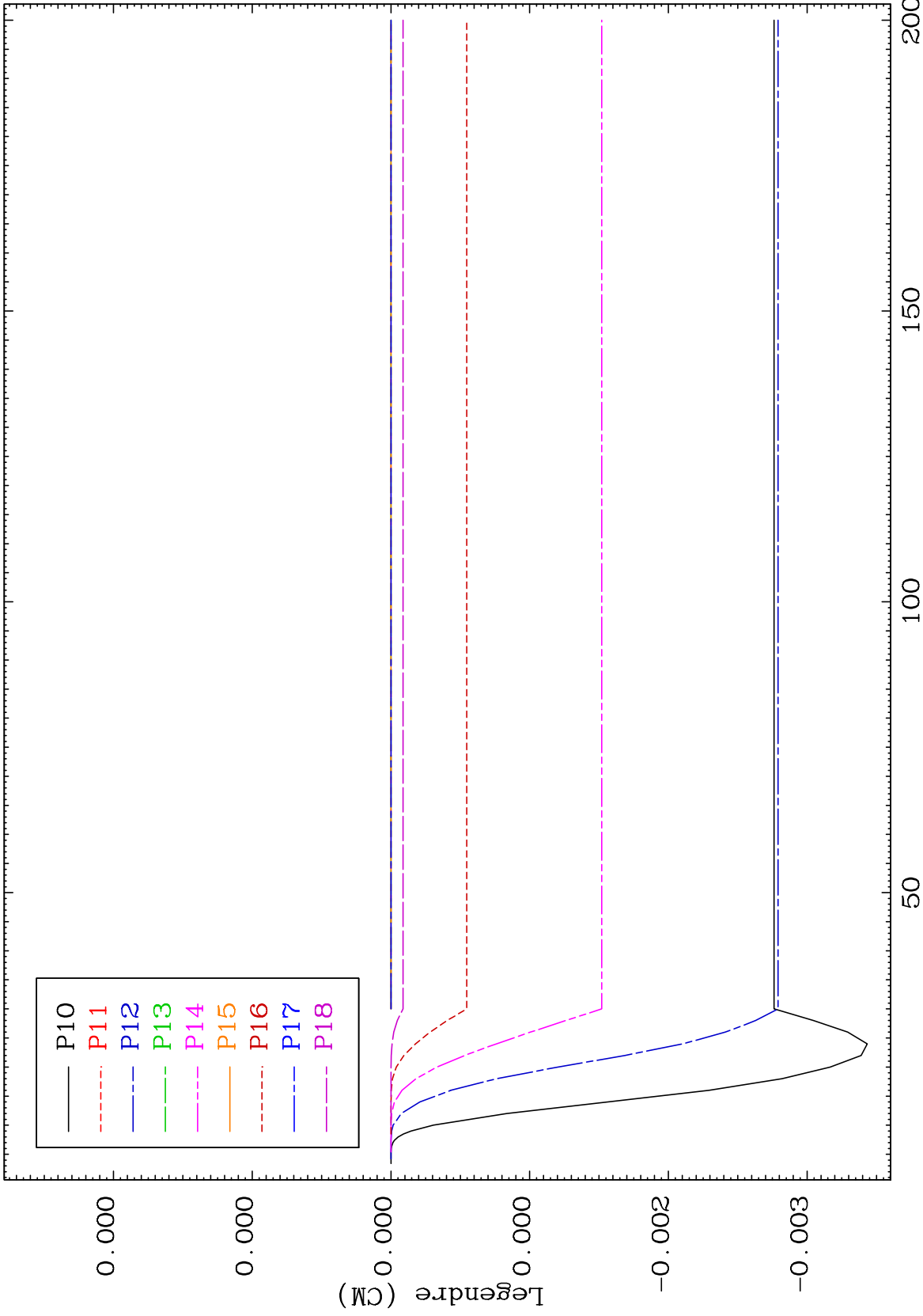
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



85

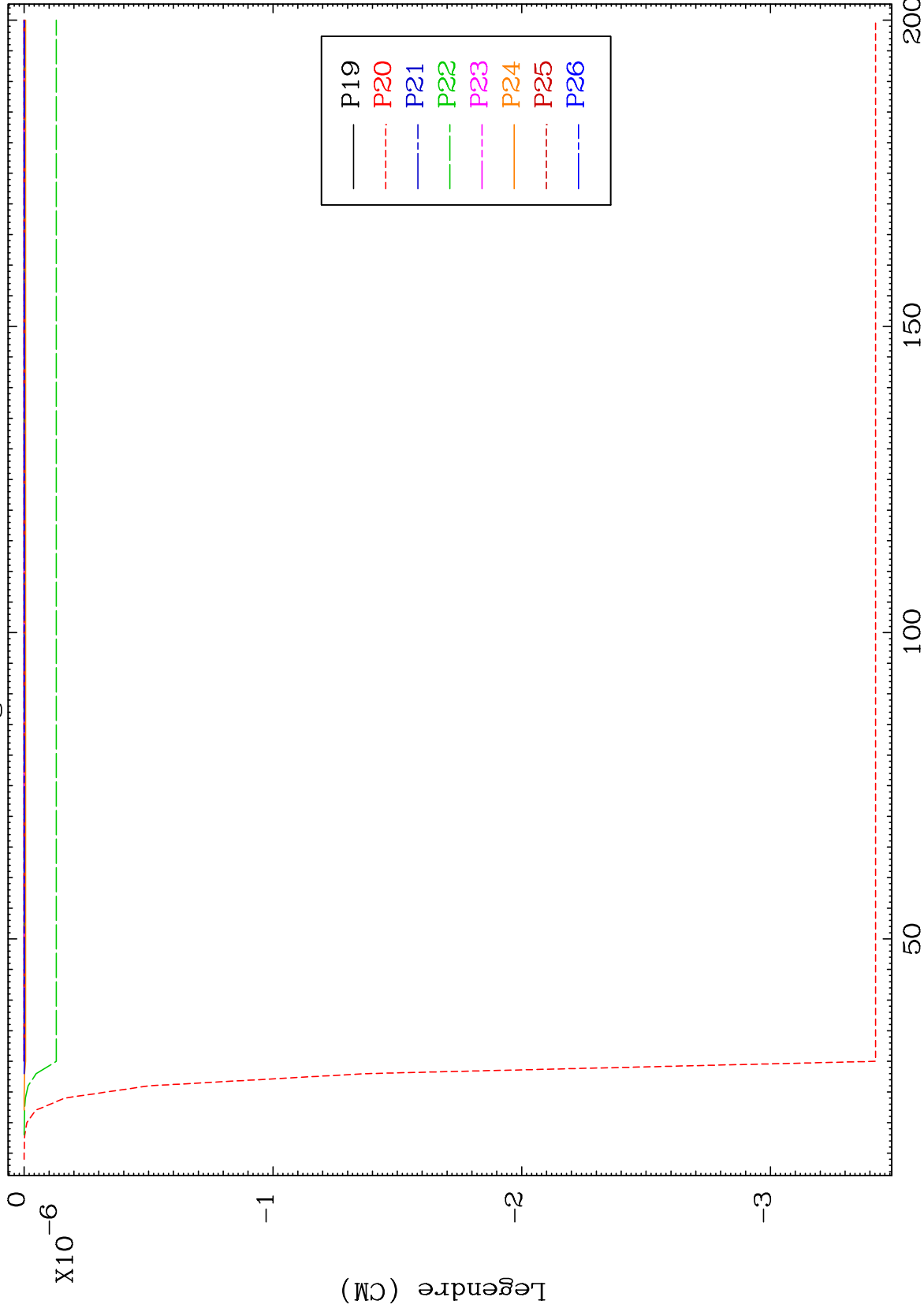
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



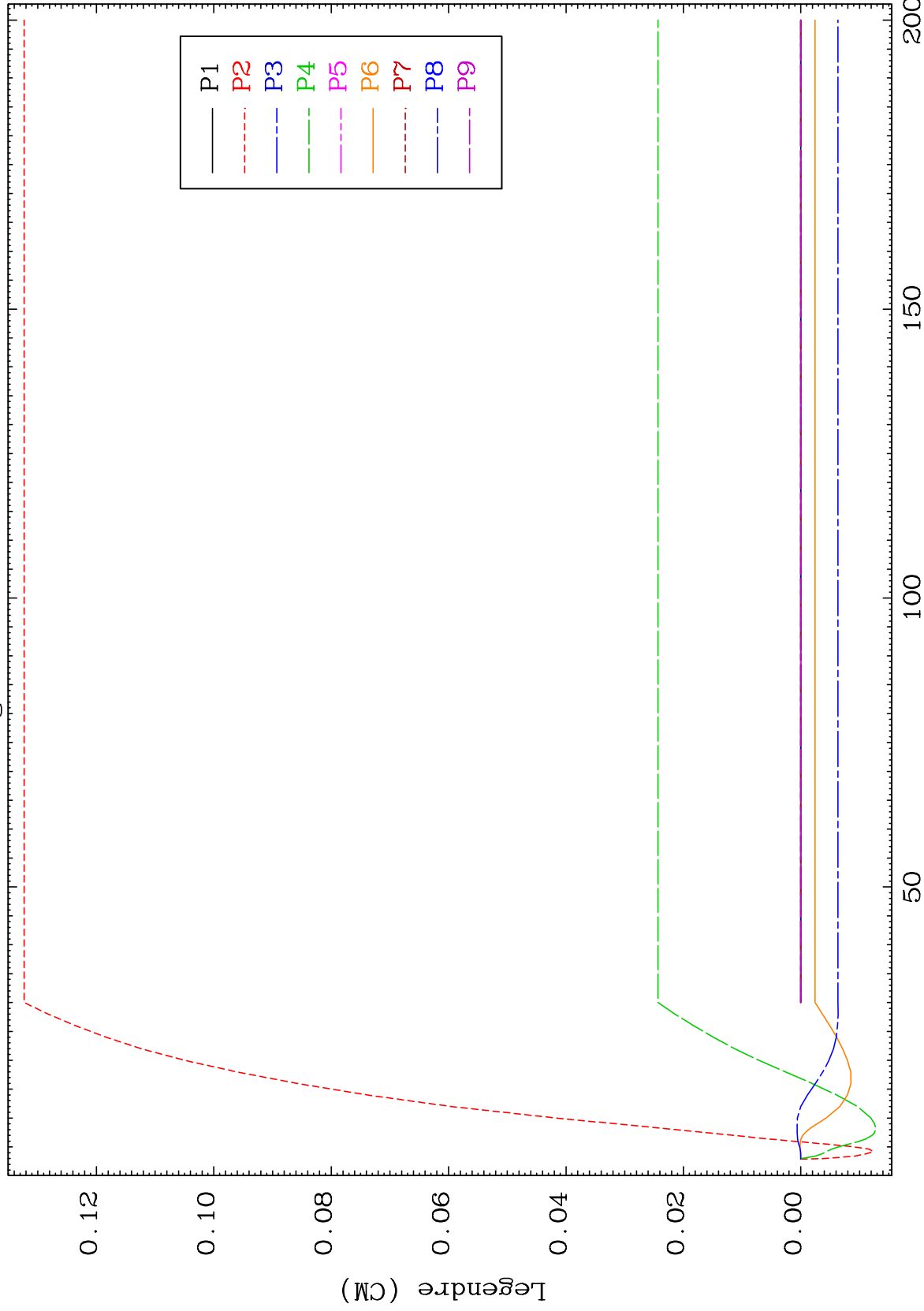
86

58-Ce-136

MAT 5825

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

58-Ce-136



87

Incident Energy (MeV)

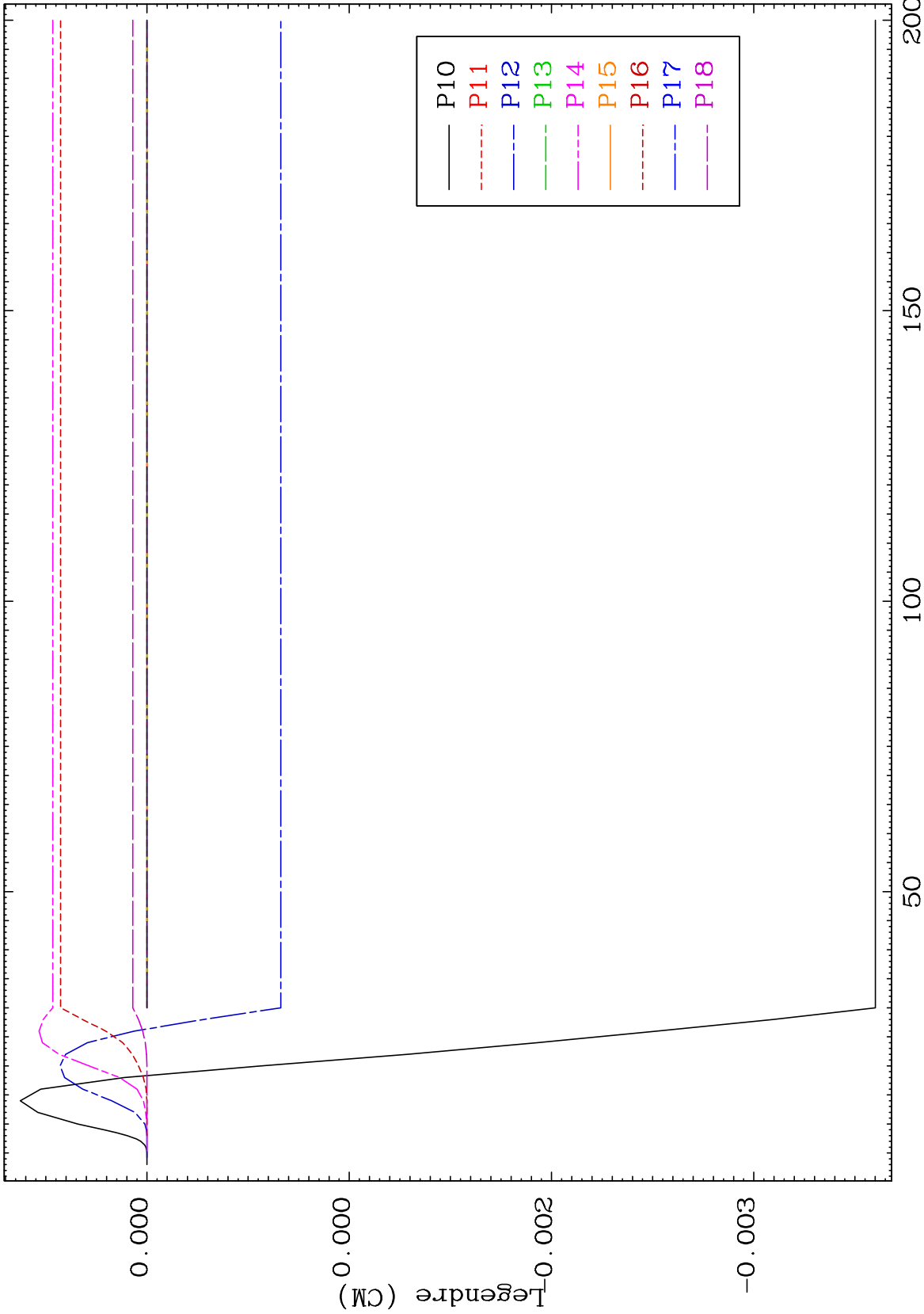
58-Ce-136



MAT 5825

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

58-Ce-136



88

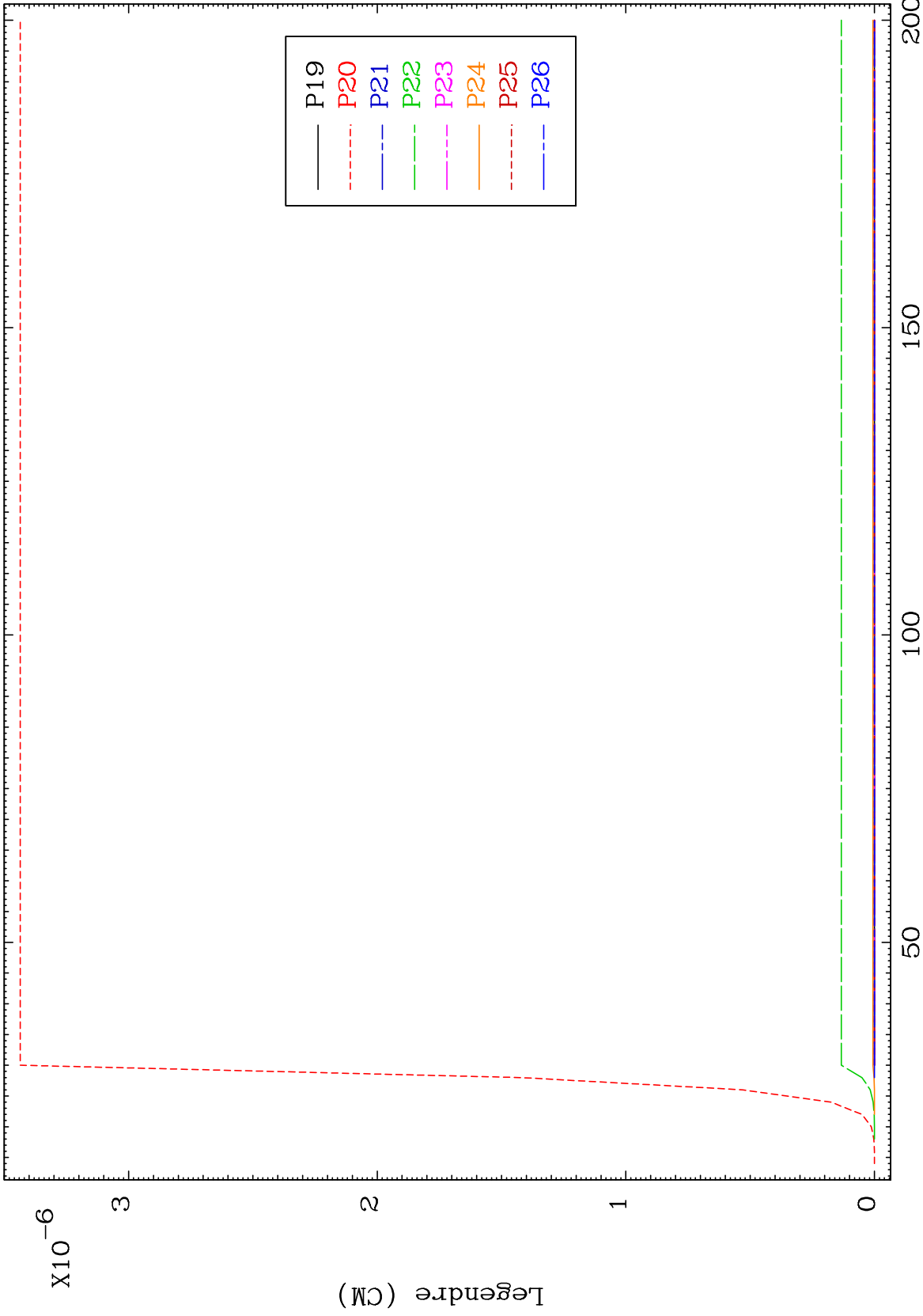
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



89

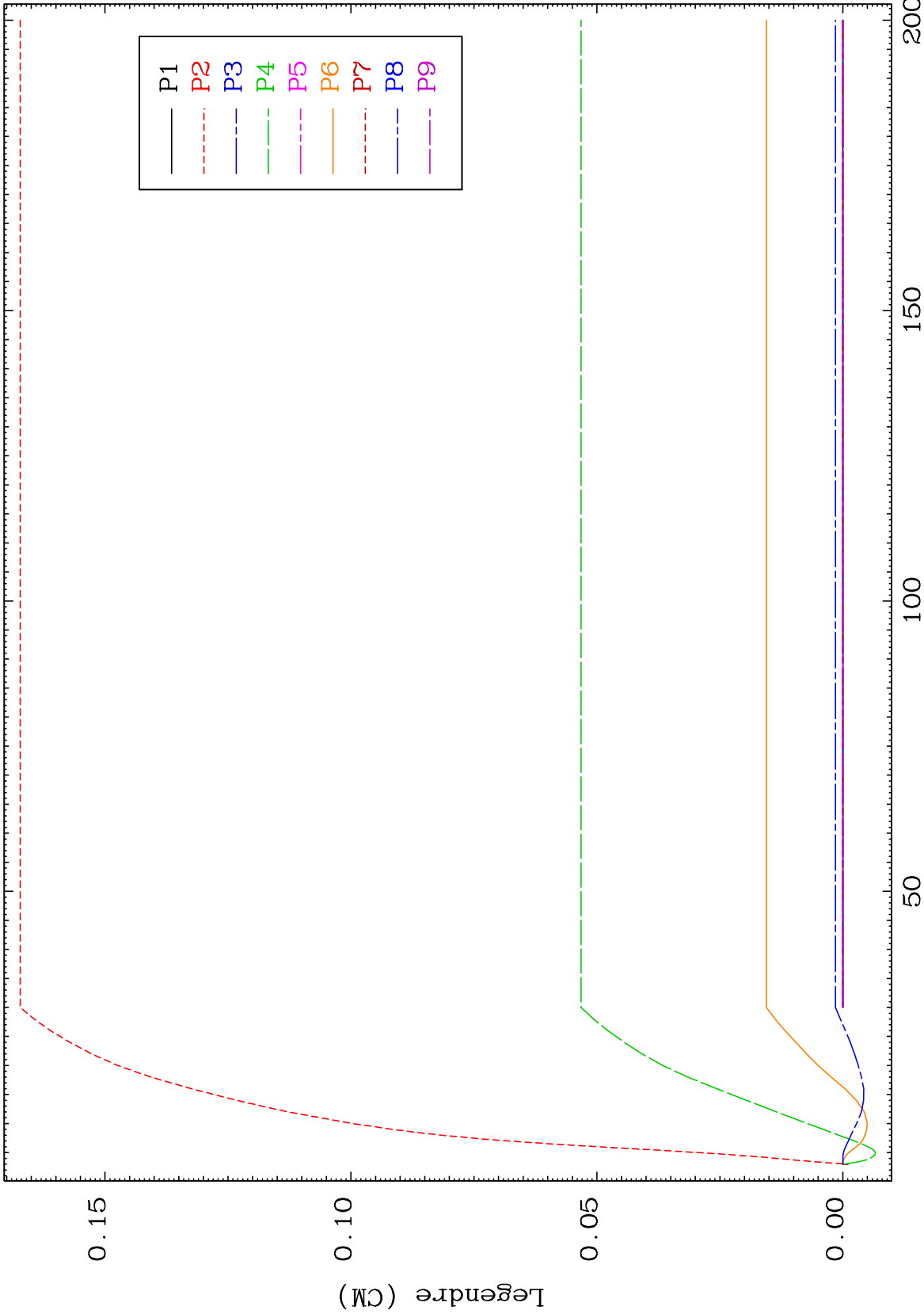
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



90

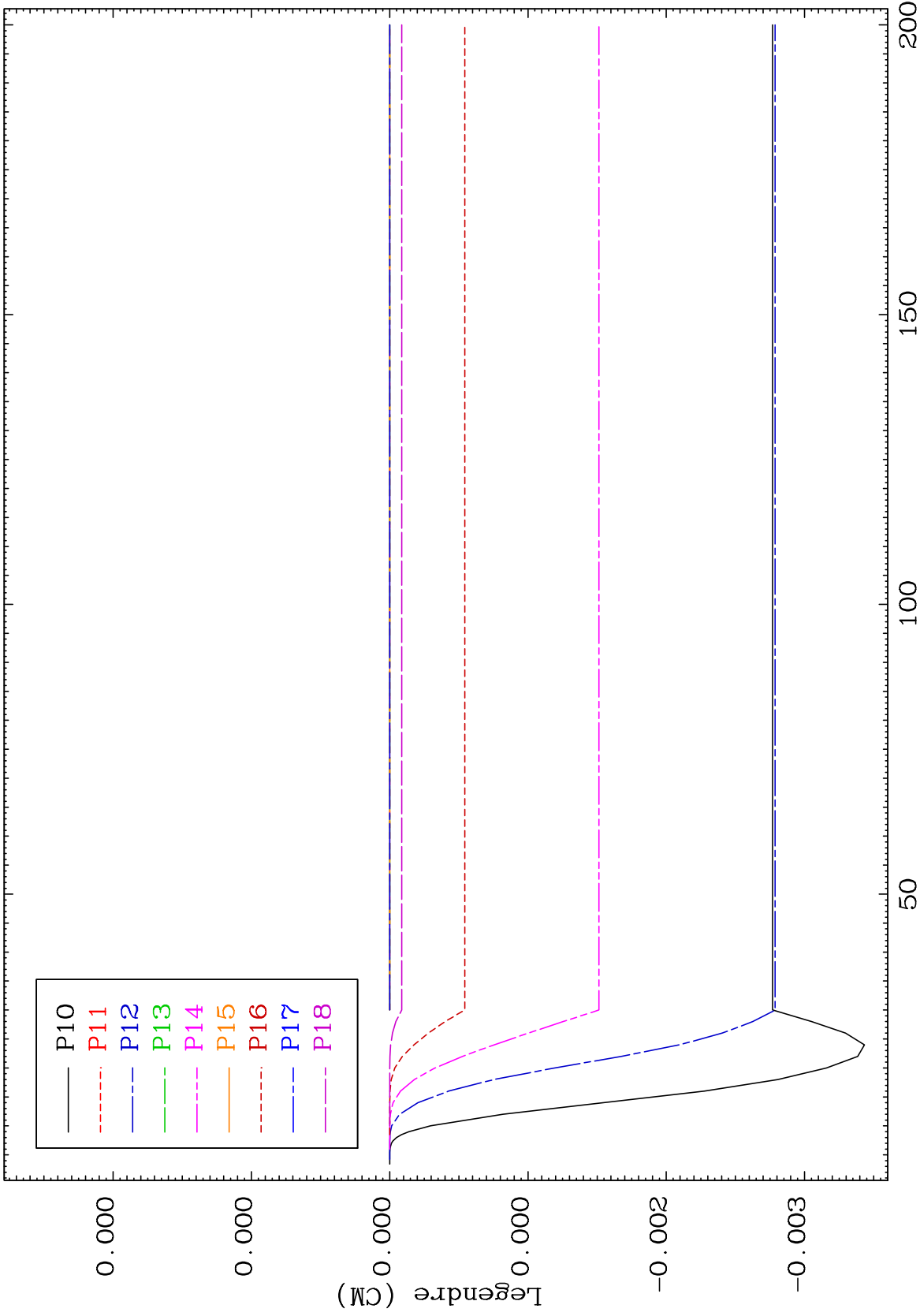
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



91

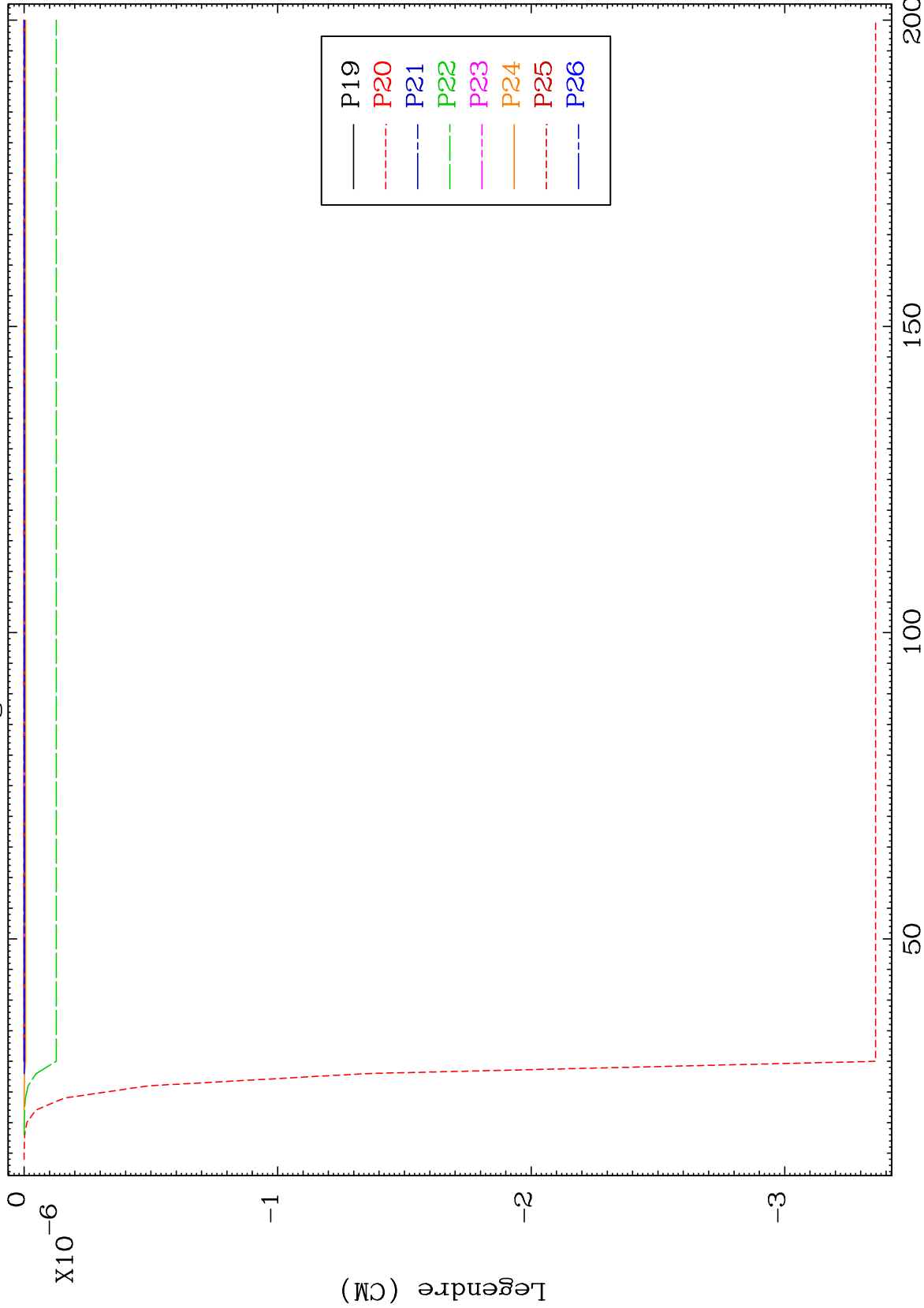
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136

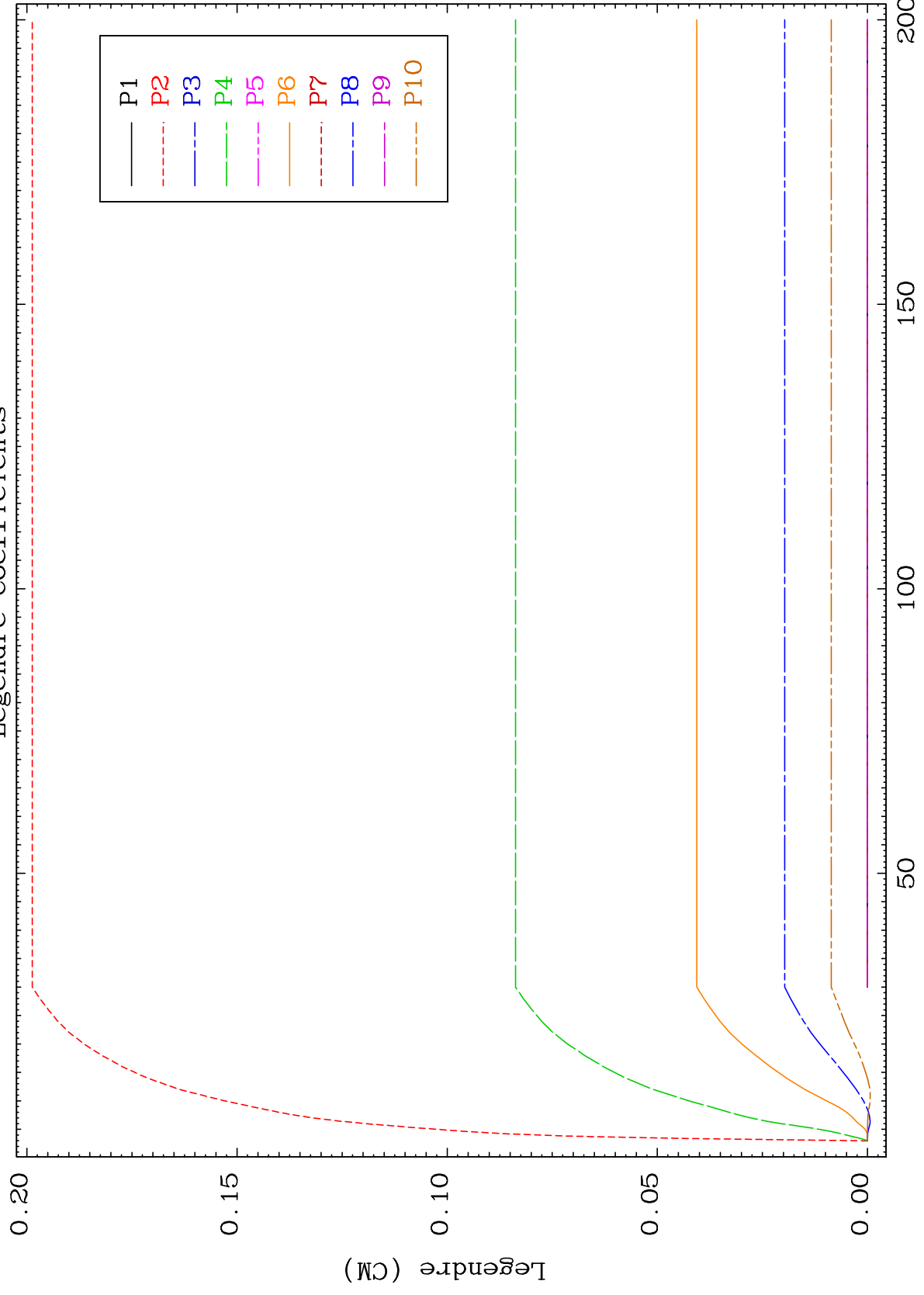


92

Incident Energy (MeV)

58-Ce-136

MAT 5825 MT= 71 (n,n') Level Legendre Coefficients 58-Ce-136

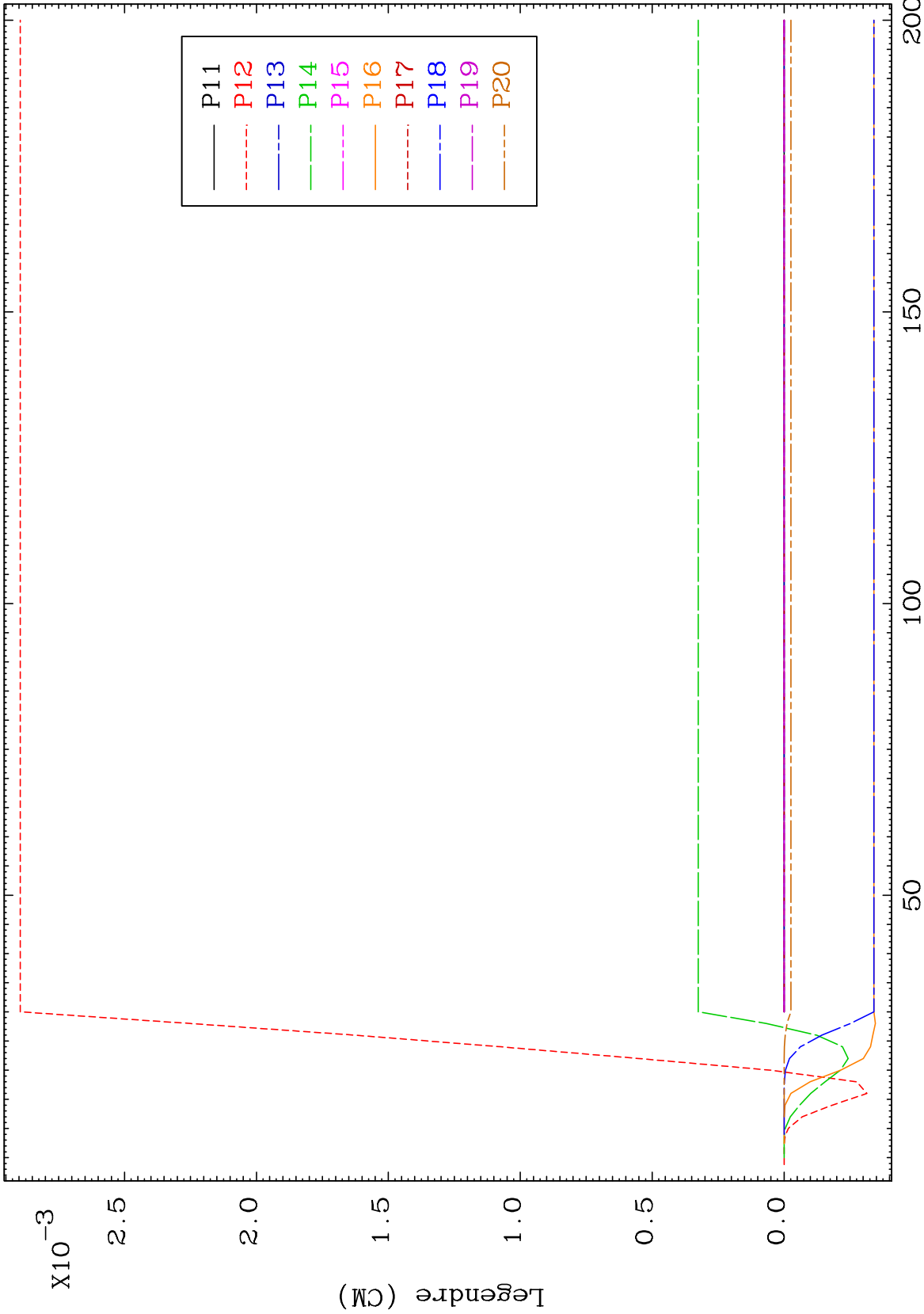


93 Incident Energy (MeV) 58-Ce-136

MAT 5825

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

58-Ce-136



94

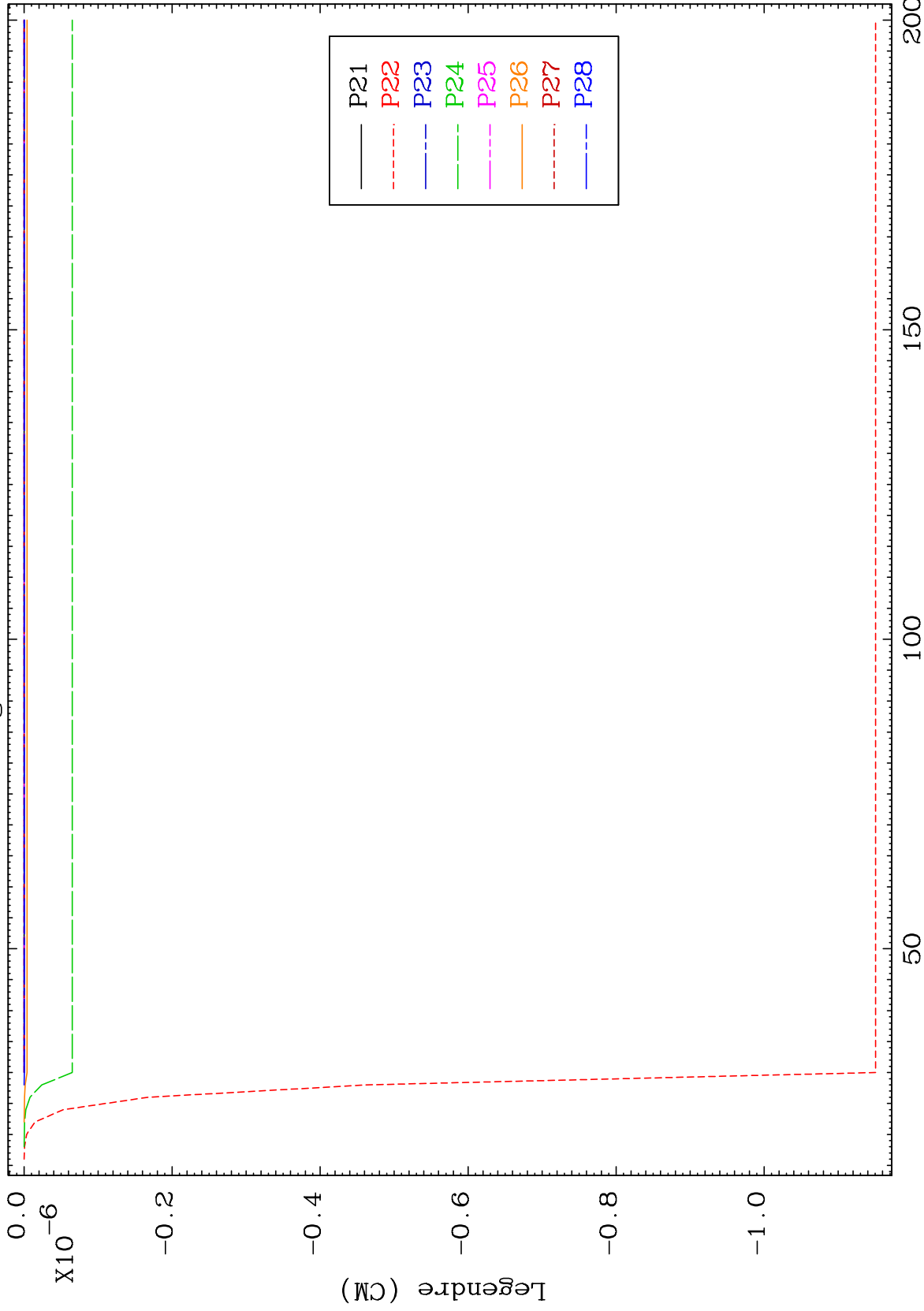
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



95

Incident Energy (MeV)

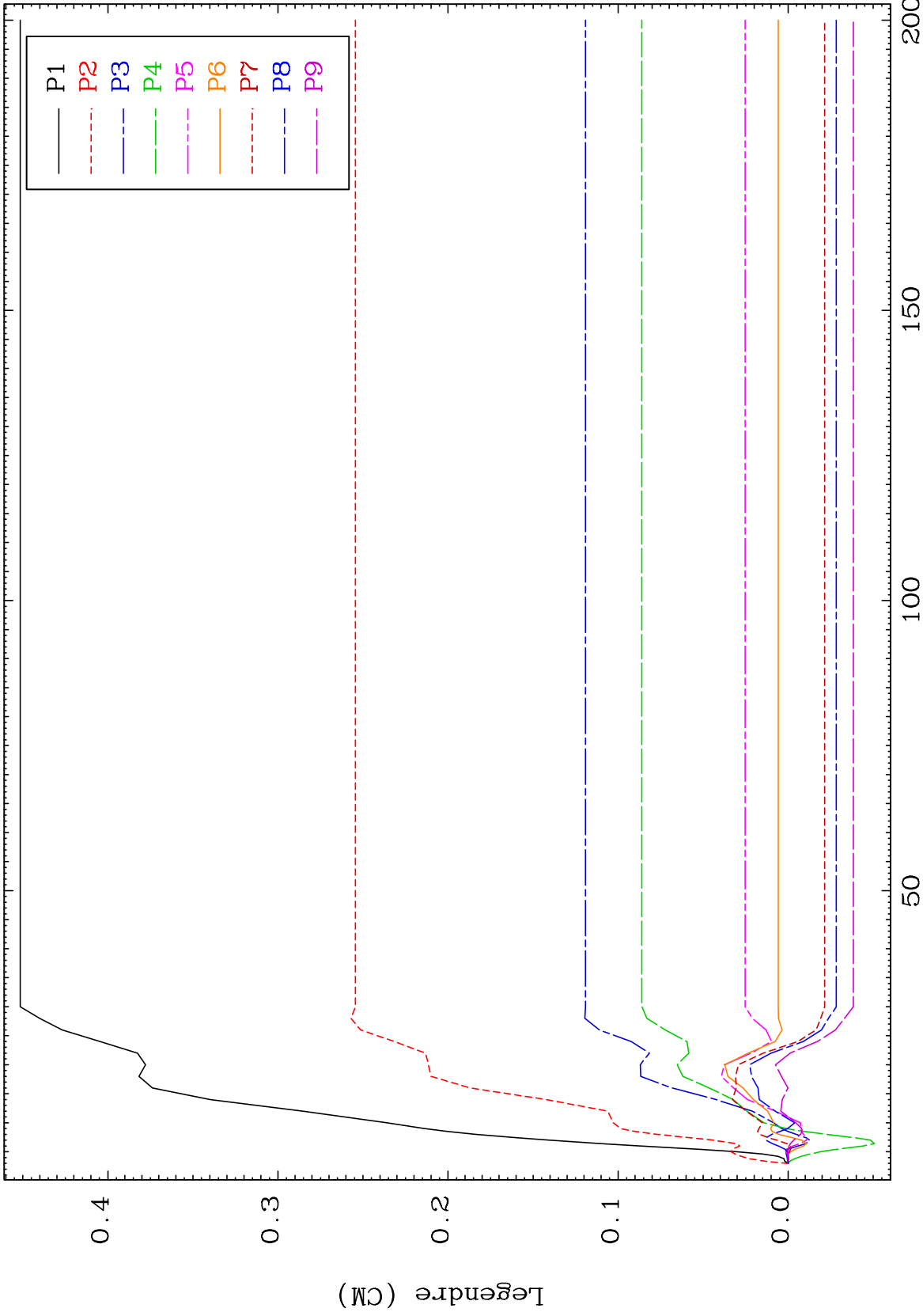
58-Ce-136



MAT 5825

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

58-Ce-136



96

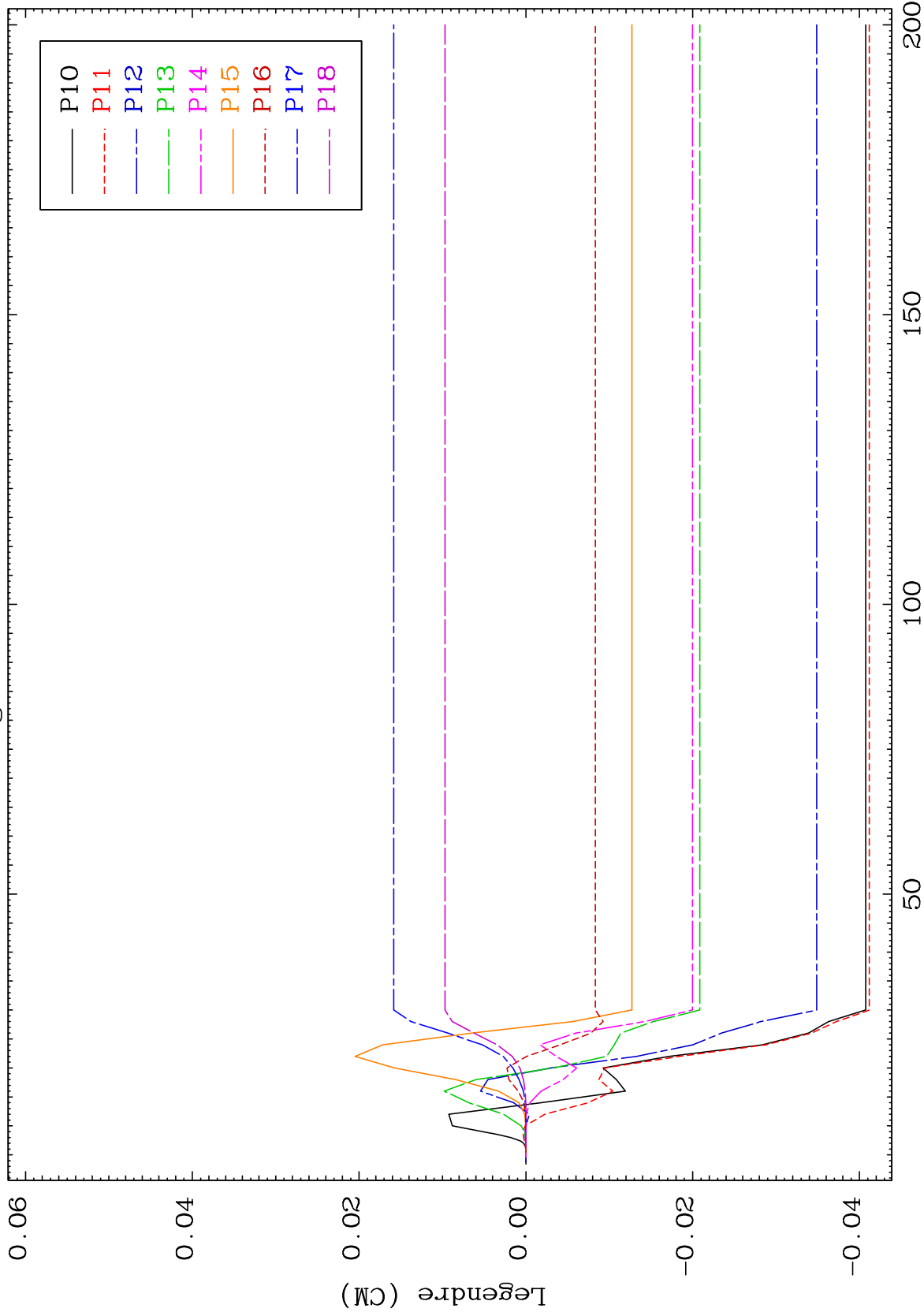
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



97

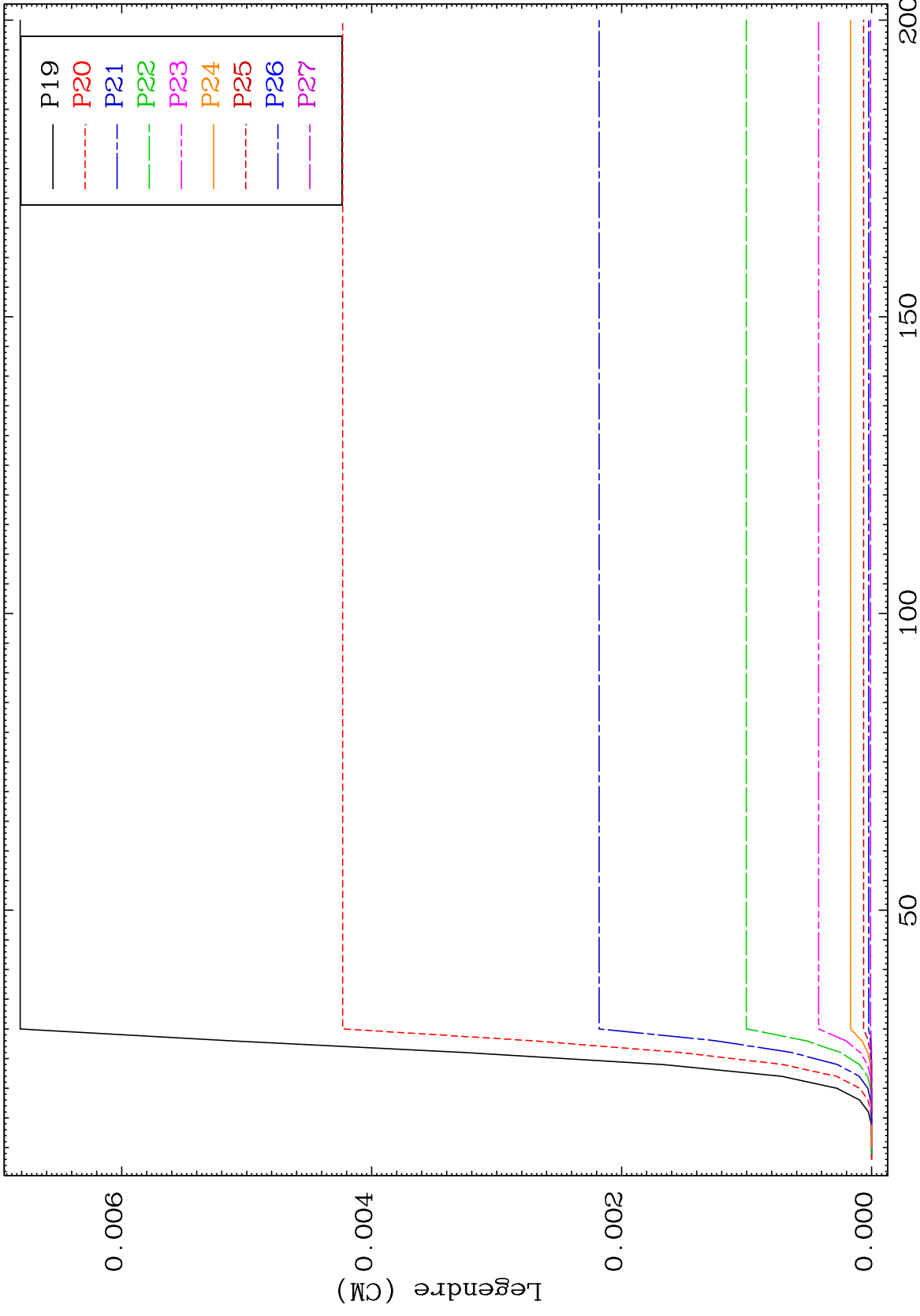
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



98

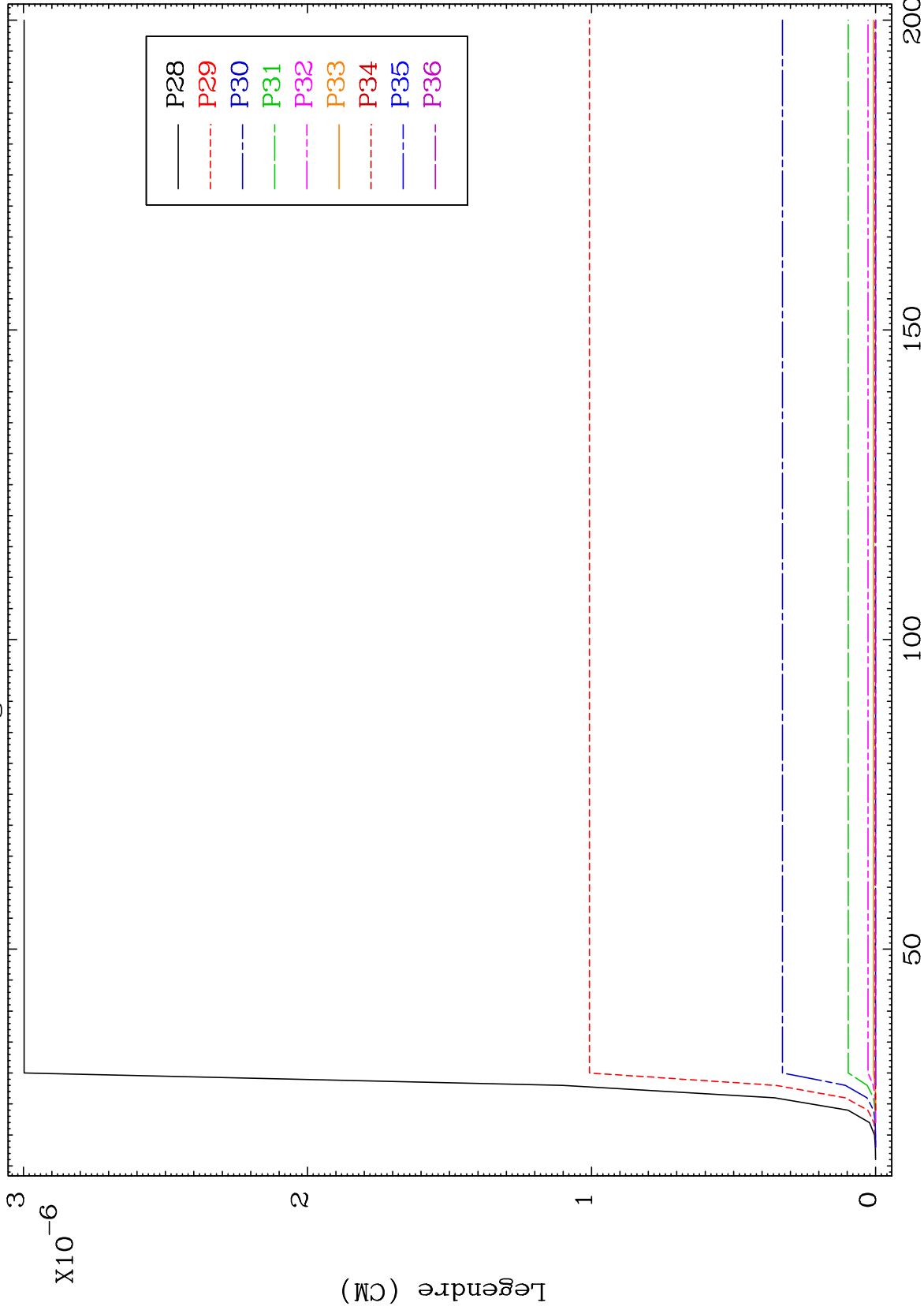
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



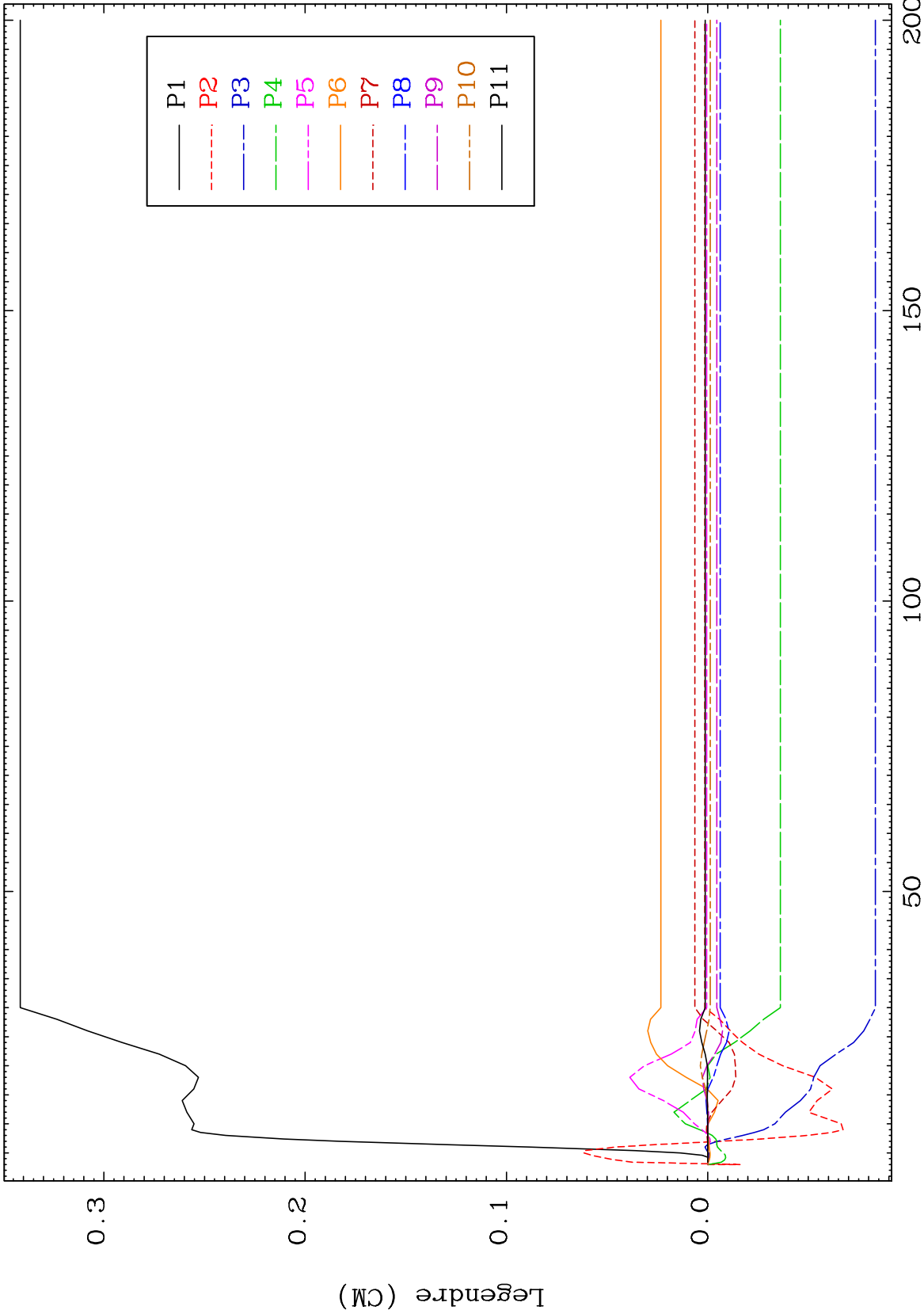
99

58-Ce-136

MAT 5825

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

58-Ce-136



100

50

100

150

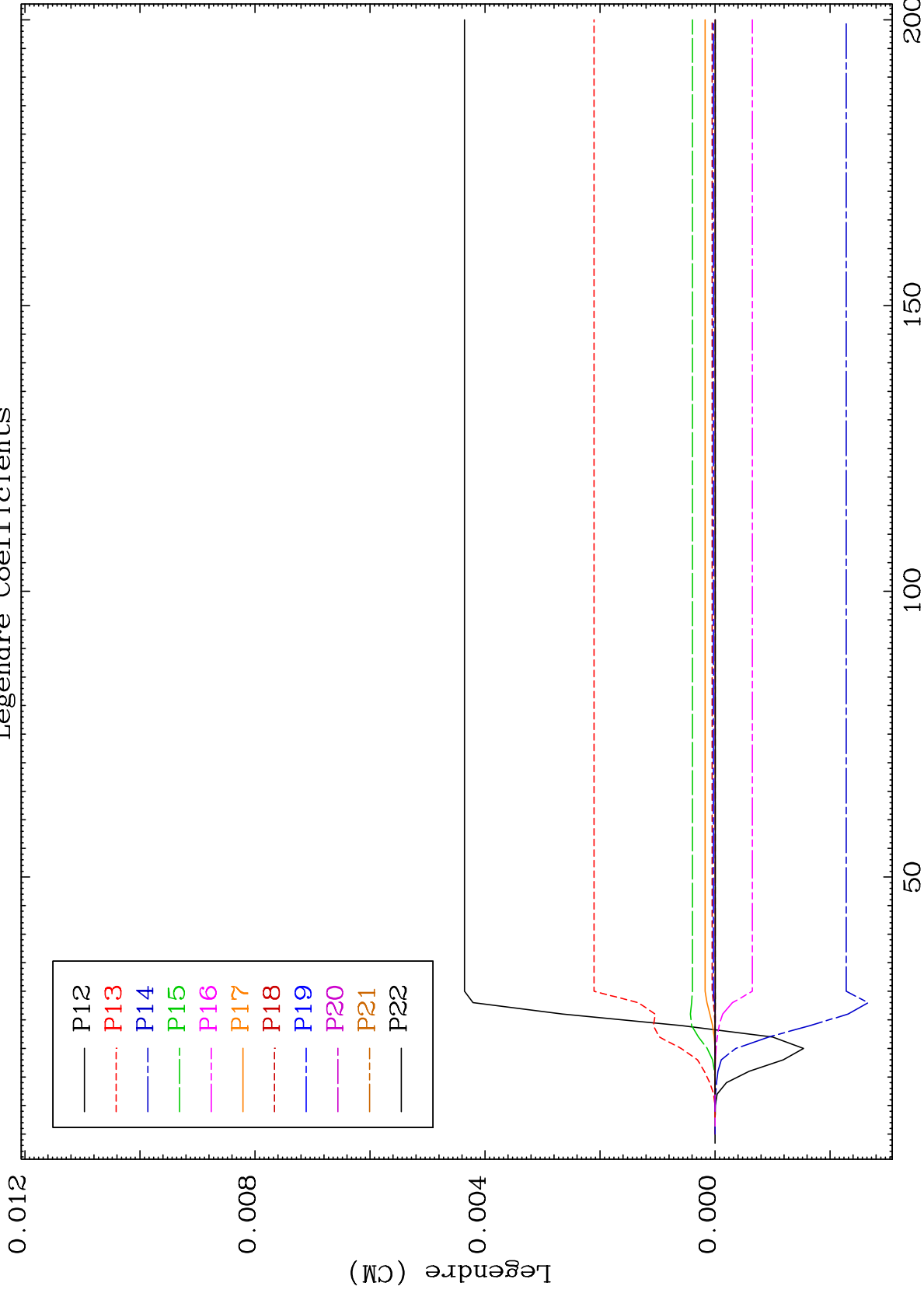
200

58-Ce-136

MAT 5825

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

58-Ce-136



101

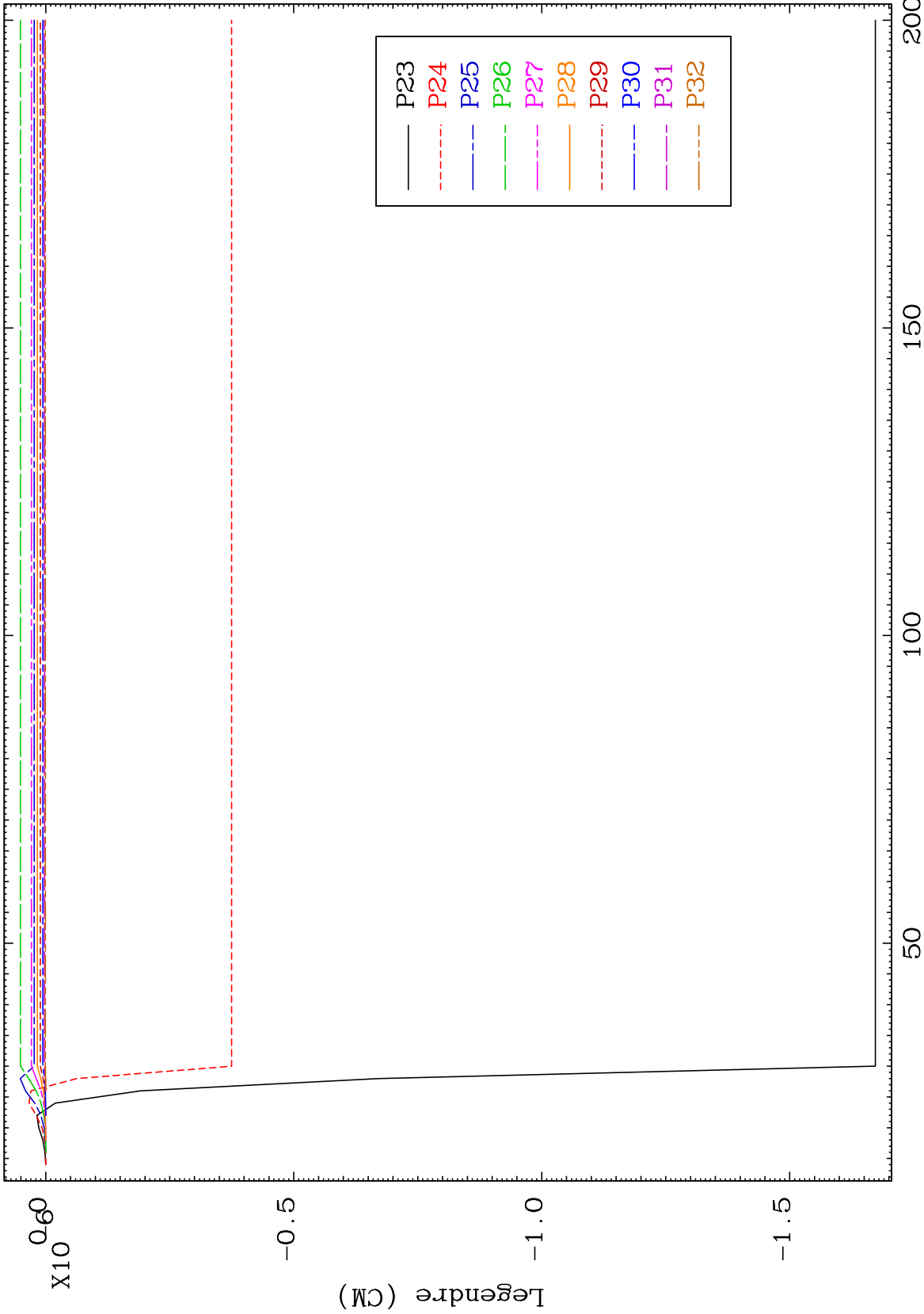
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



102

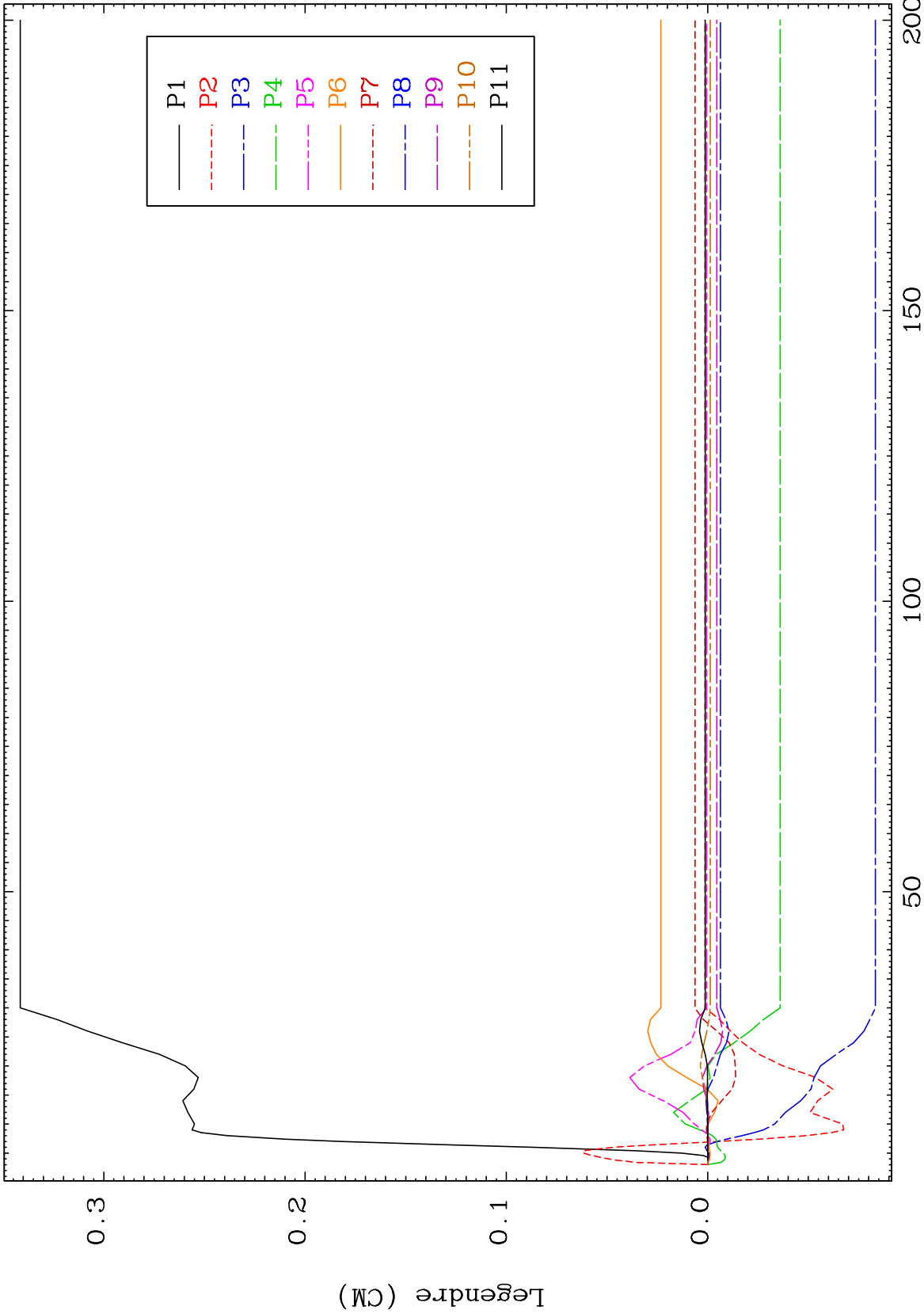
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



103

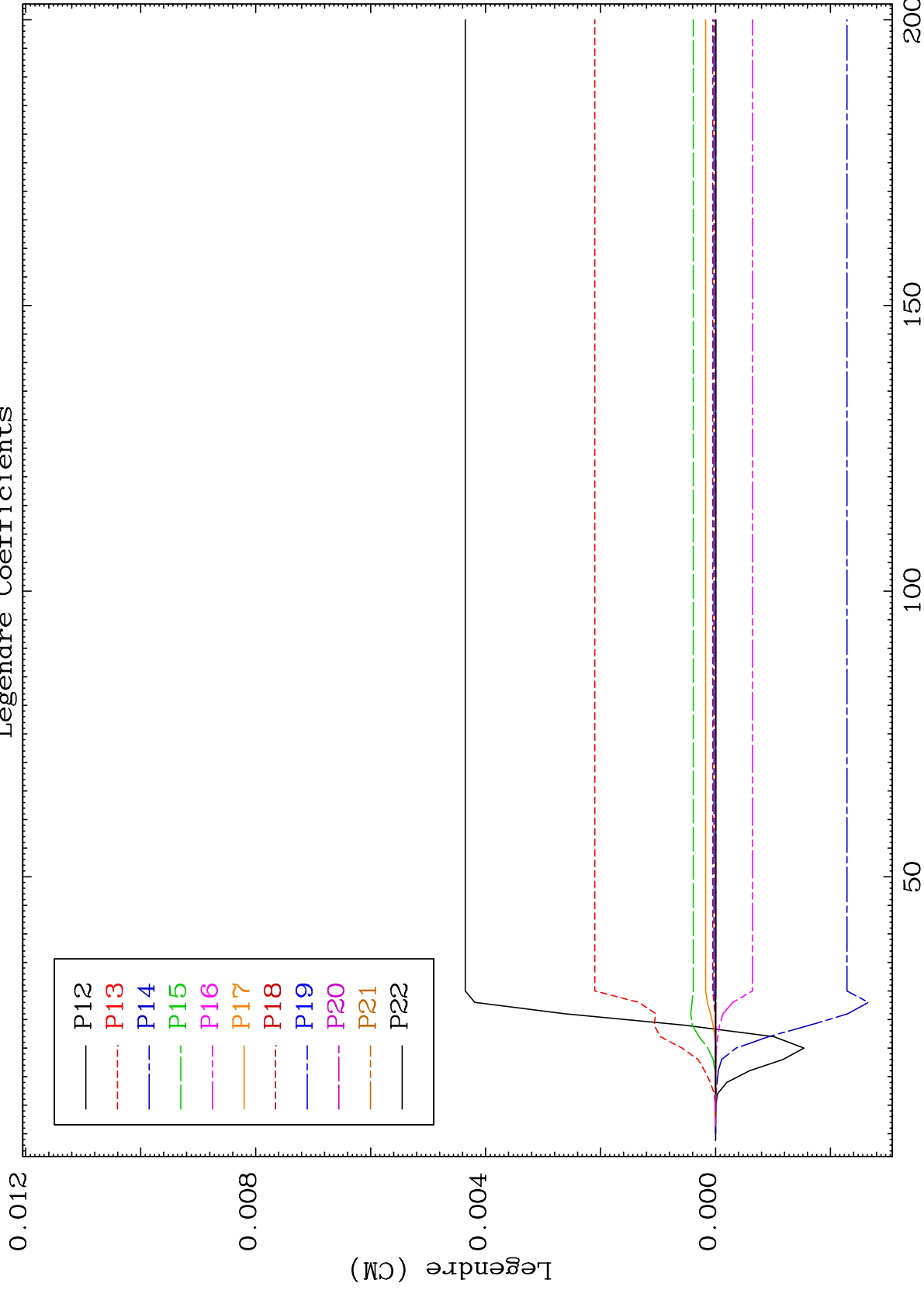
58-Ce-136



MAT 5825

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

58-Ce-136



104

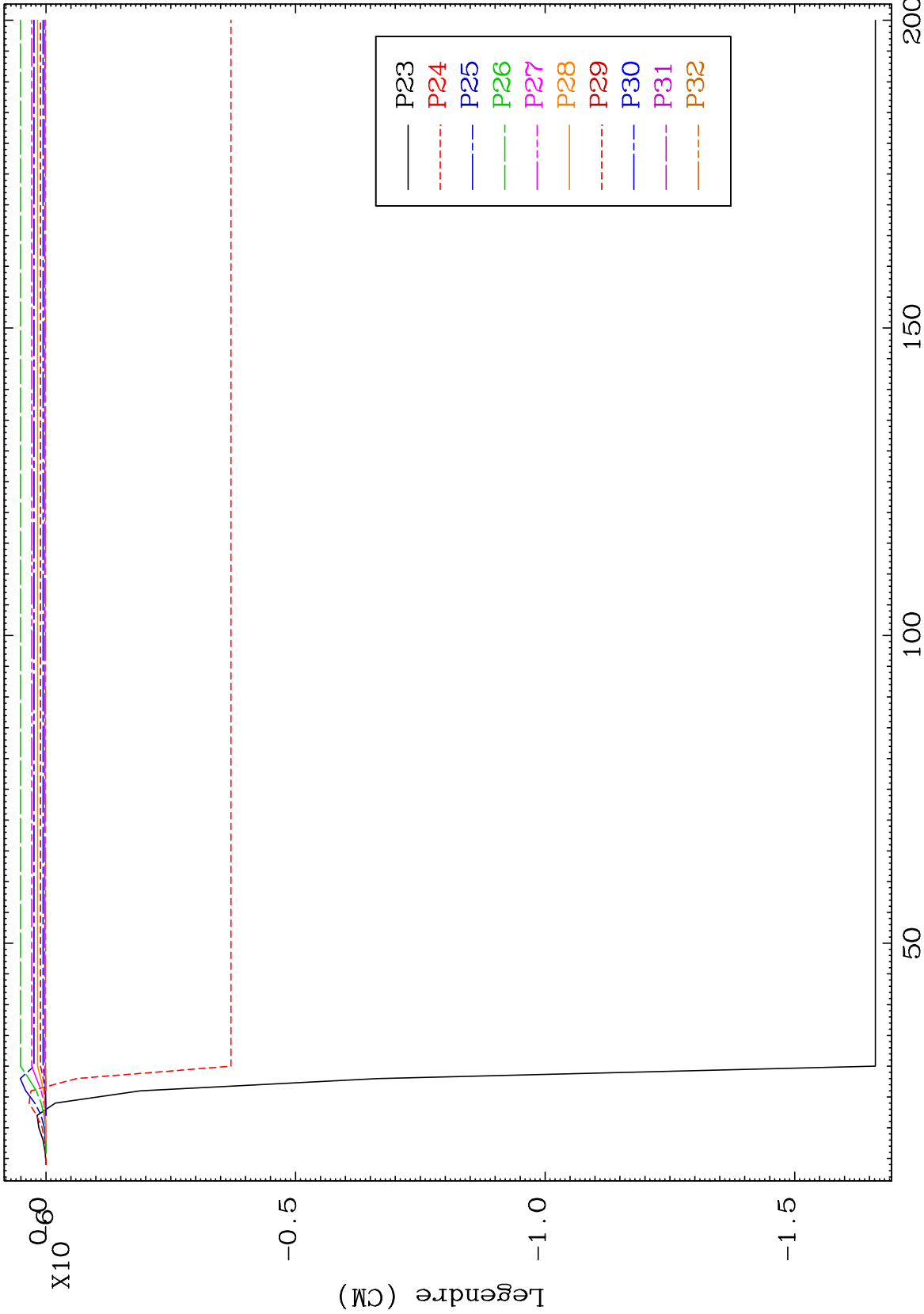
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



105

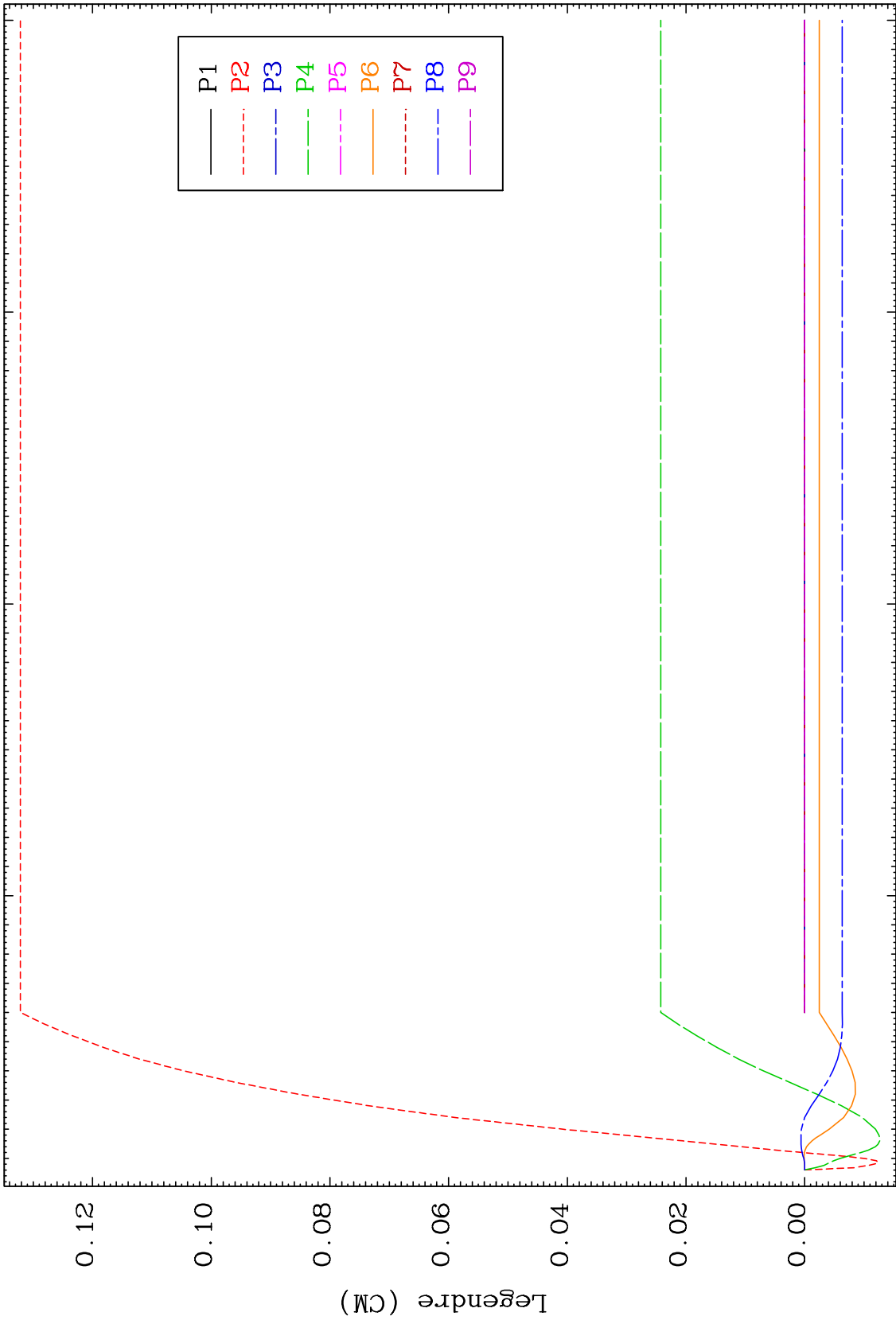
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



106

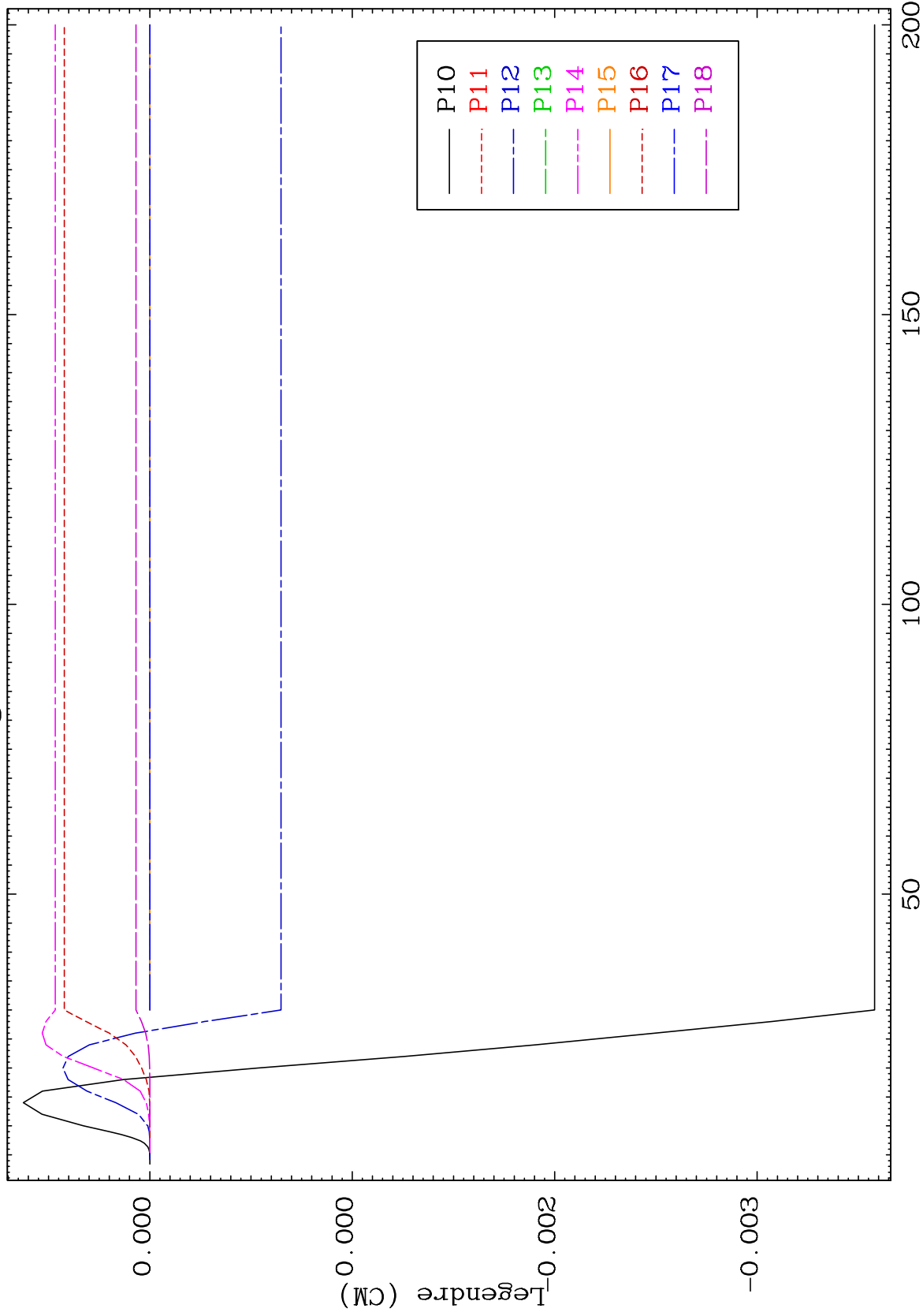
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



107

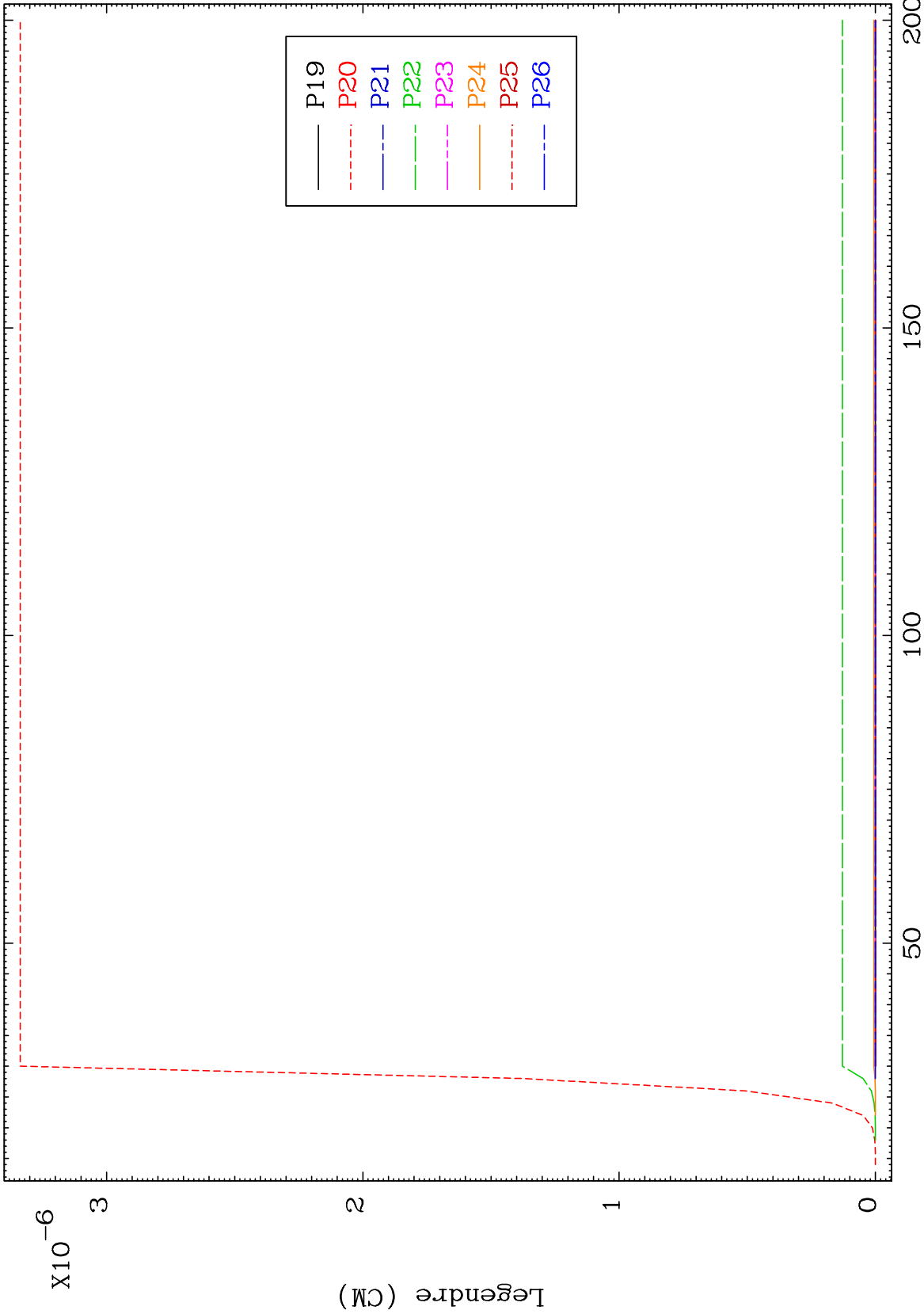
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136

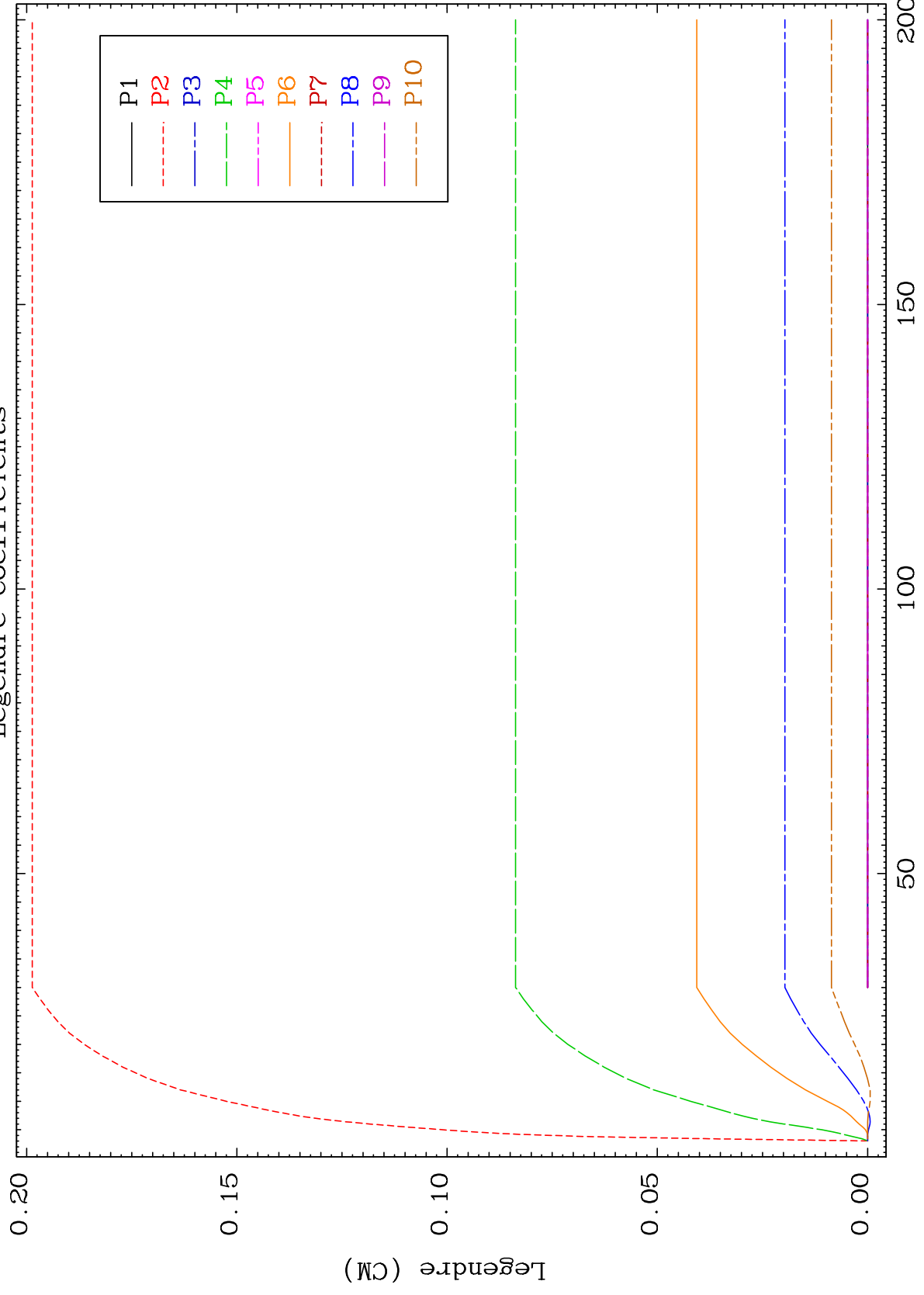


108

Incident Energy (MeV)

58-Ce-136

MAT 5825 MT= 76 (n,n') Level Legendre Coefficients 58-Ce-136

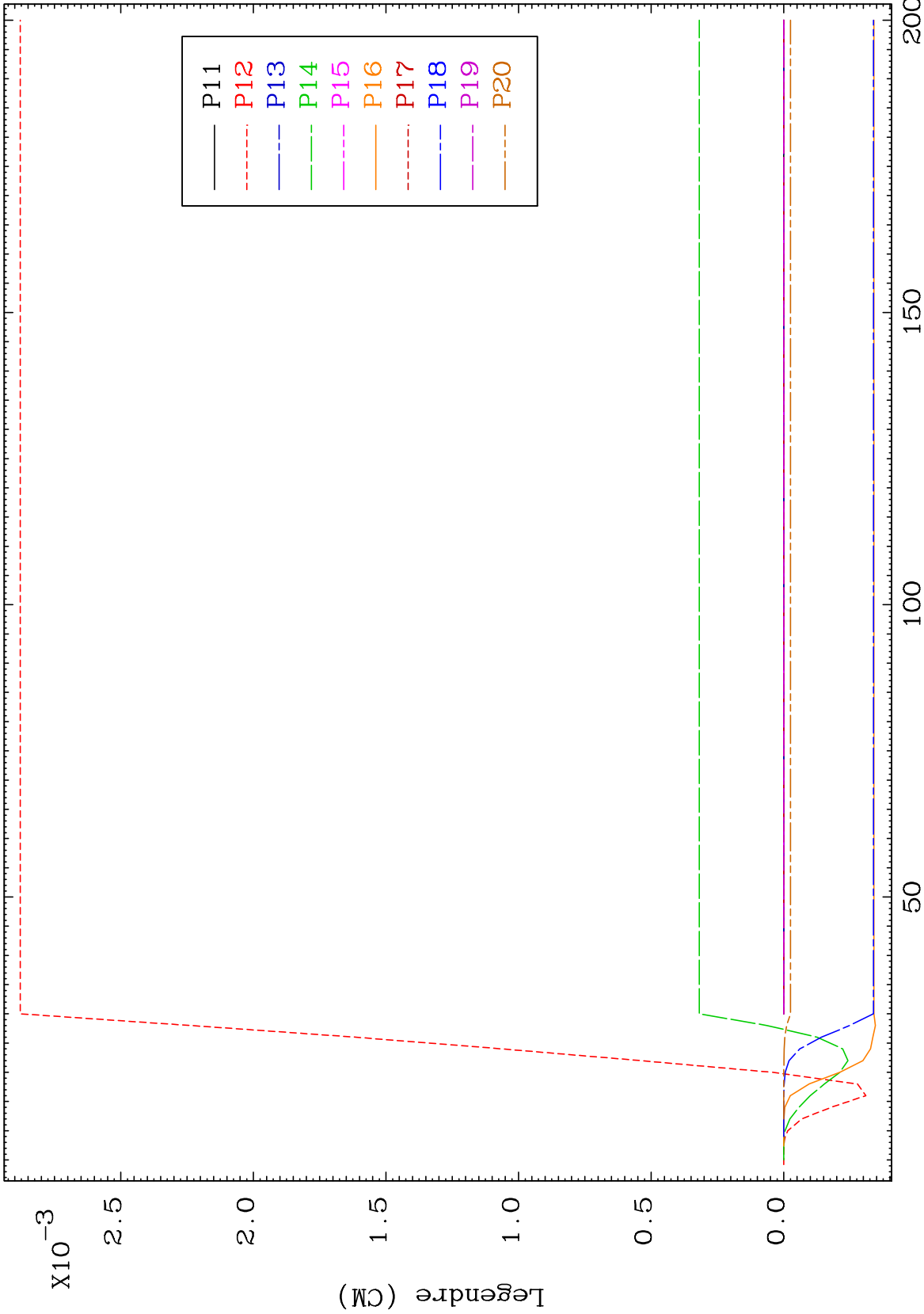


58-Ce-136

MAT 5825

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

58-Ce-136



110

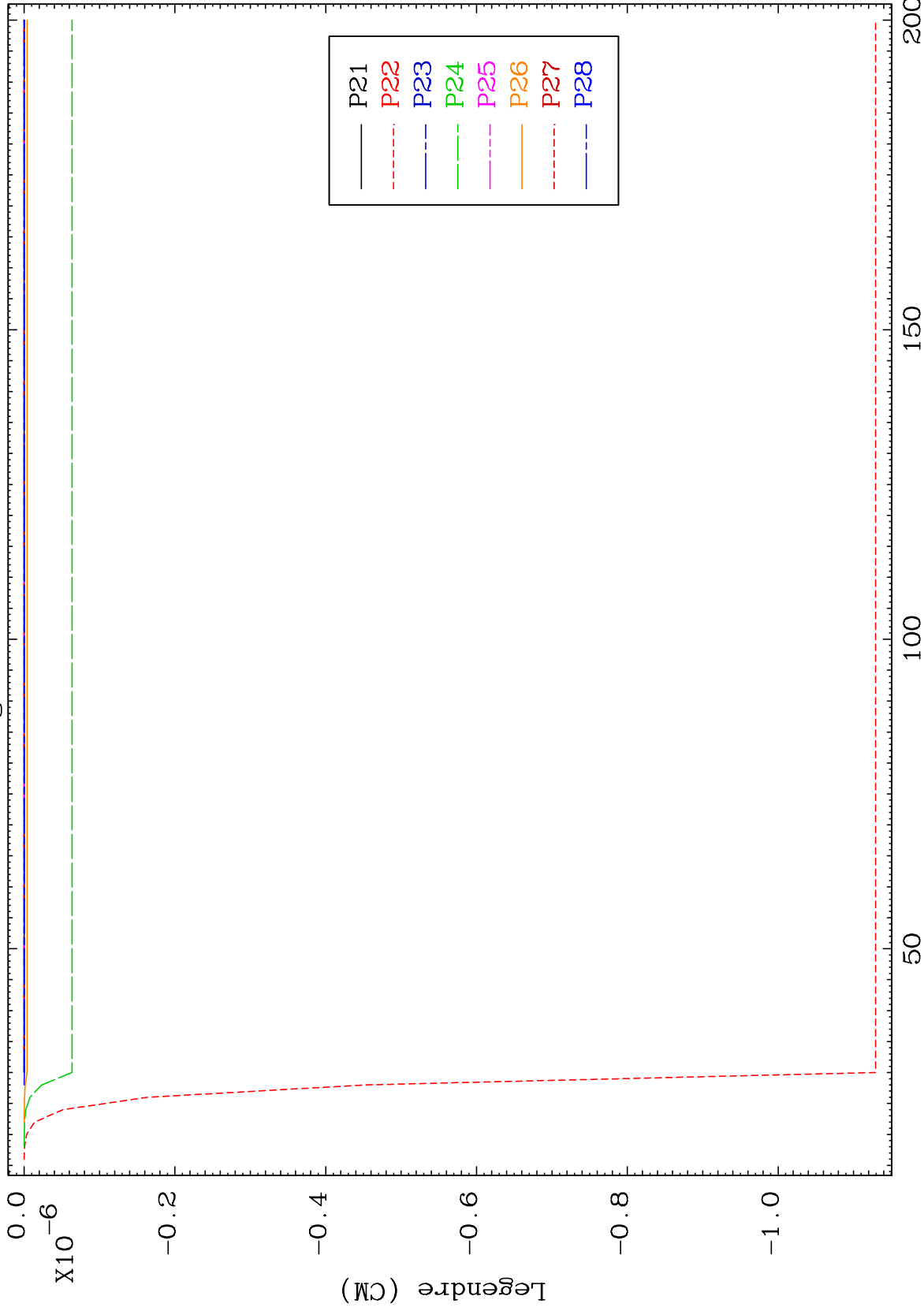
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



111

Incident Energy (MeV)

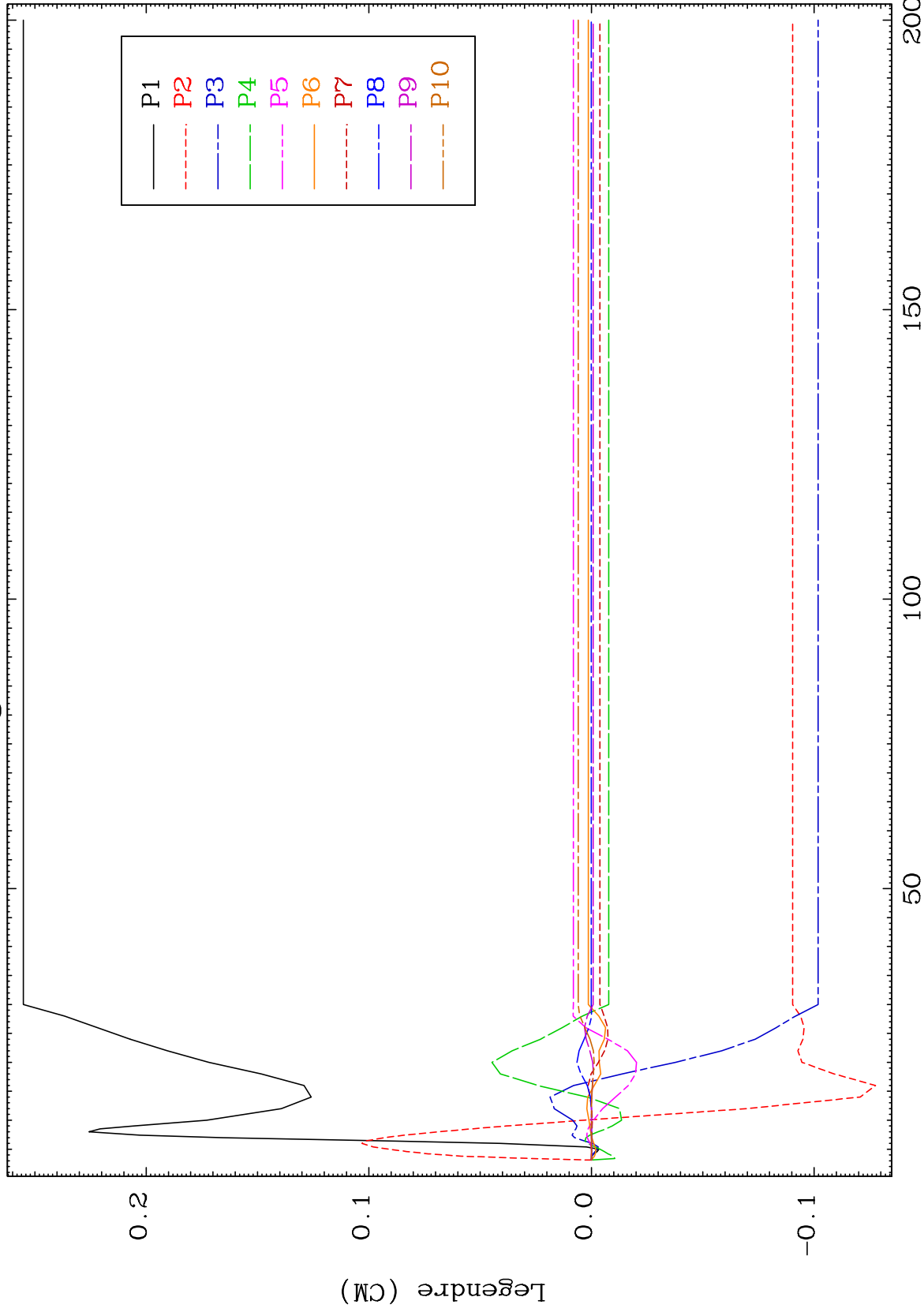
58-Ce-136



MAT 5825

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

58-Ce-136



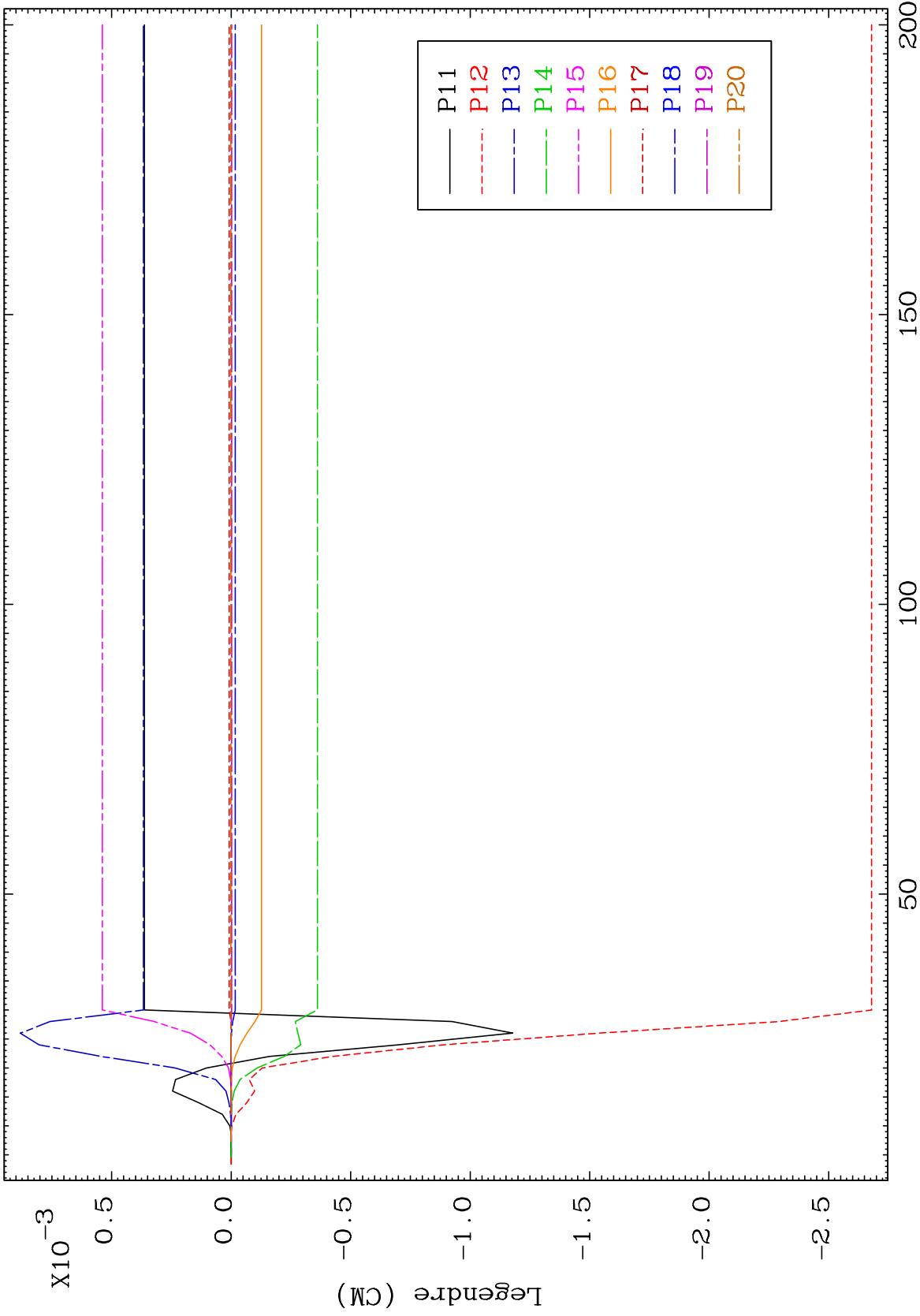
112

58-Ce-136

MAT 5825

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

58-Ce-136



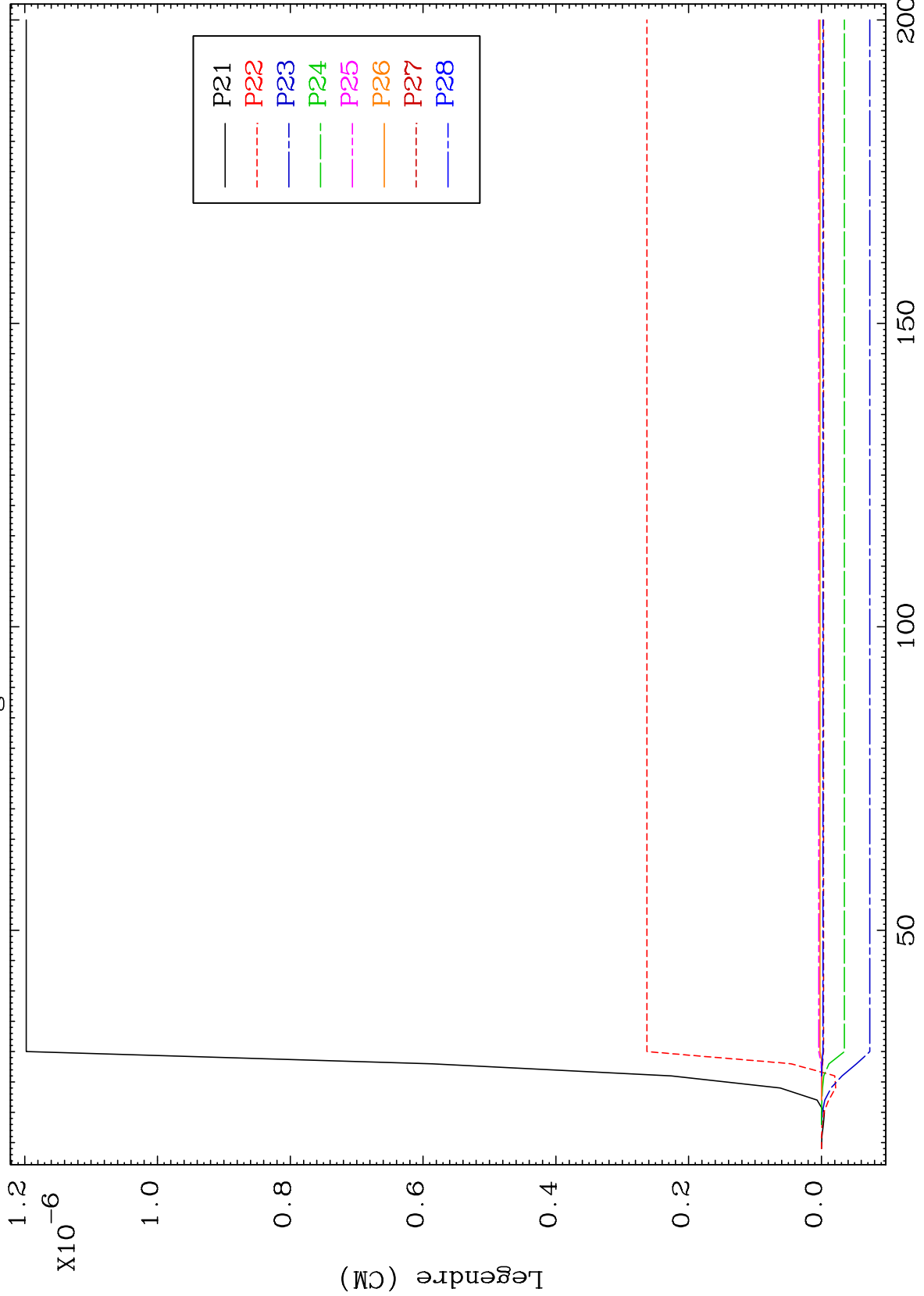
113

58-Ce-136

MAT 5825

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

58-Ce-136



114

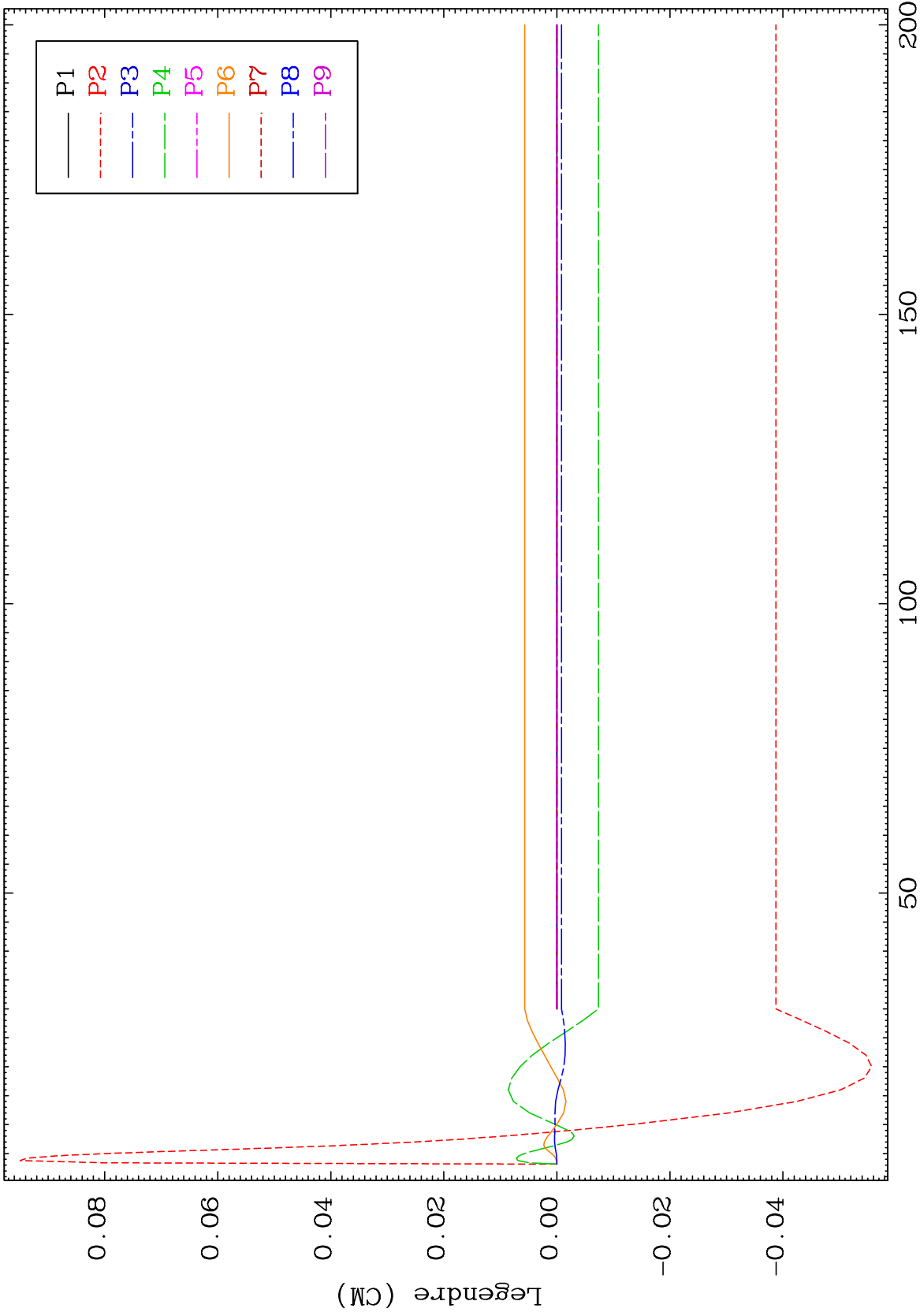
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



115

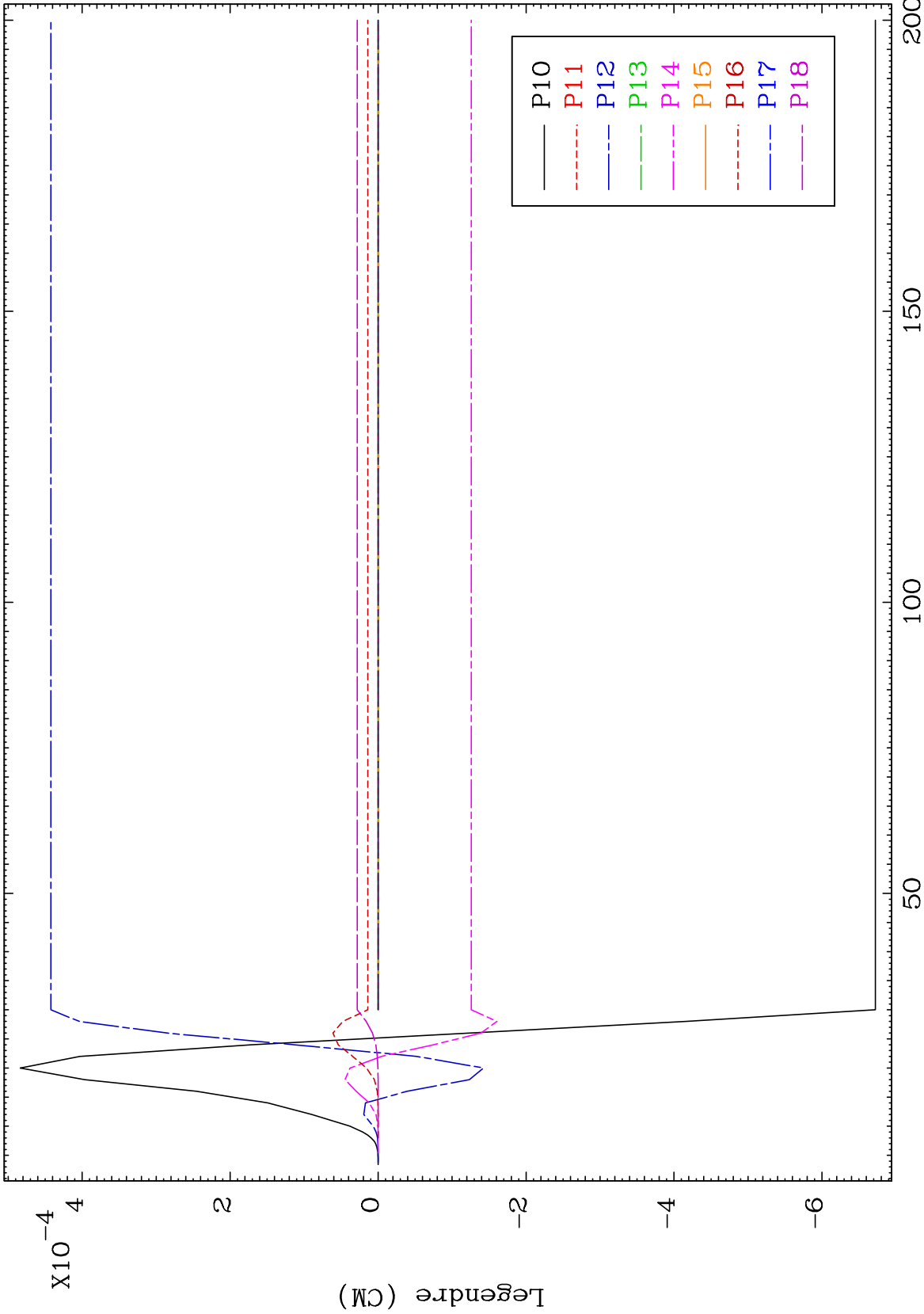
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



116

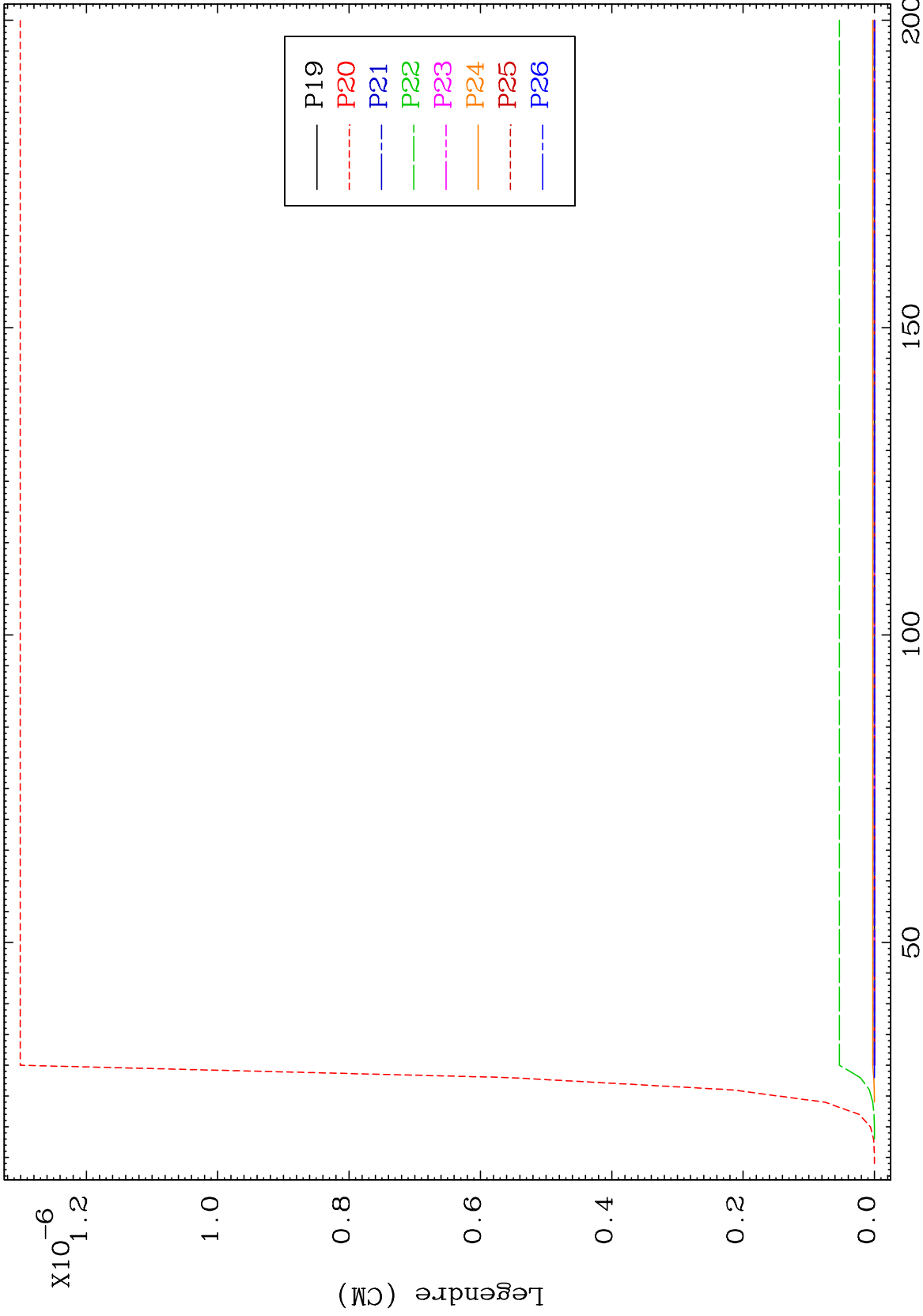
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

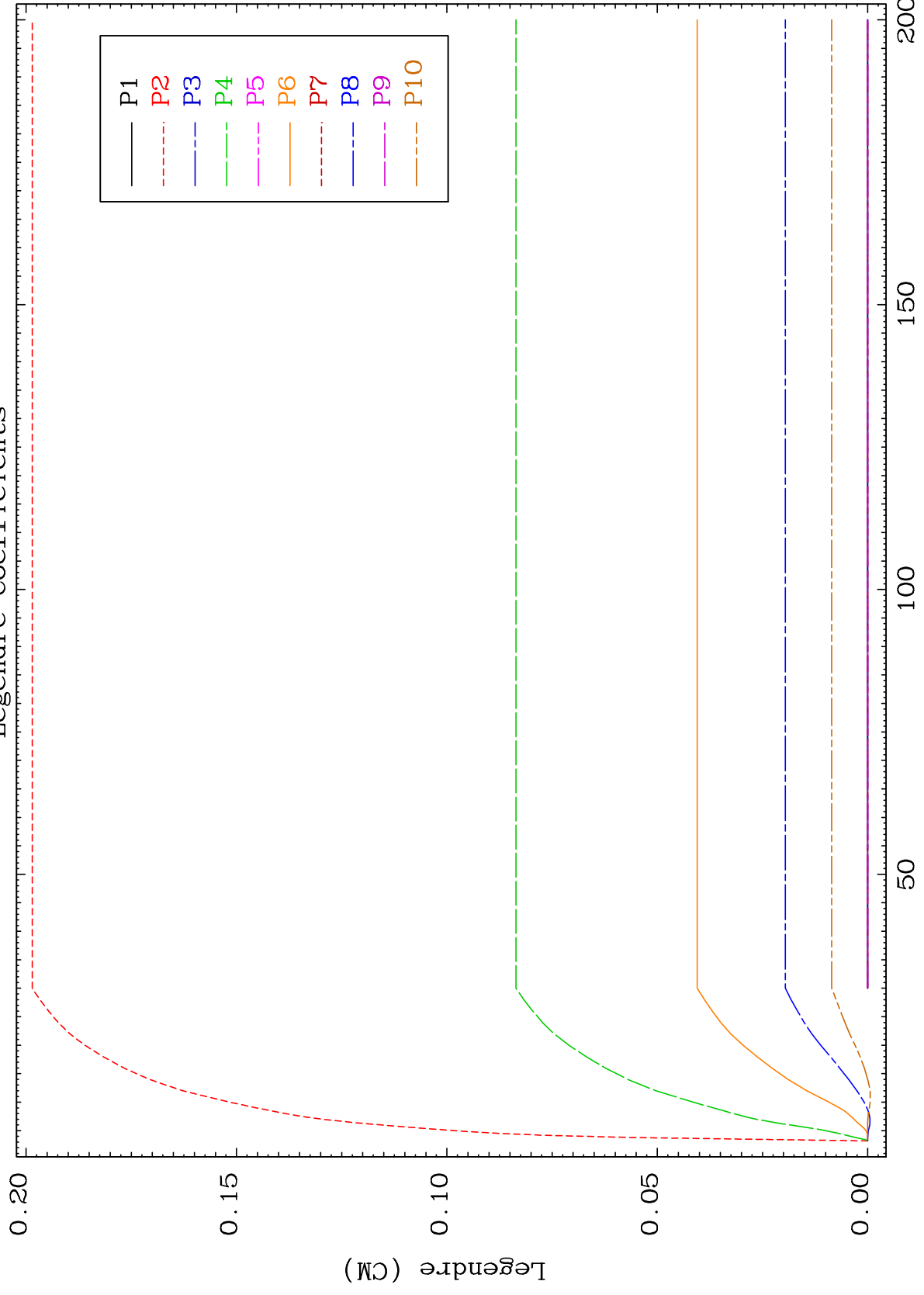
58-Ce-136



117

58-Ce-136

MAT 5825 MT= 79 (n,n') Level Legendre Coefficients 58-Ce-136

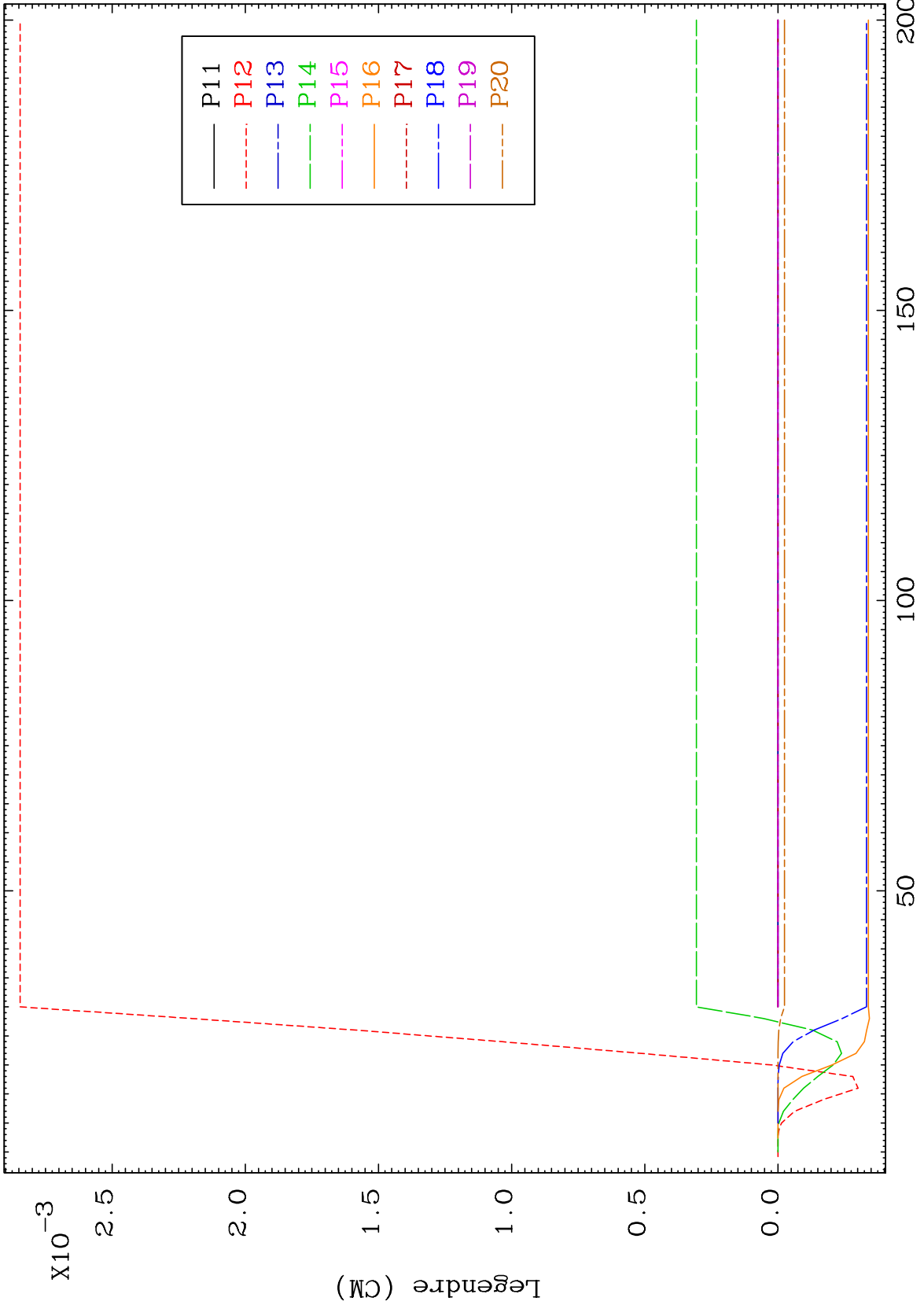


118 Incident Energy (MeV) 58-Ce-136

MAT 5825

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

58-Ce-136



119

Incident Energy (MeV)

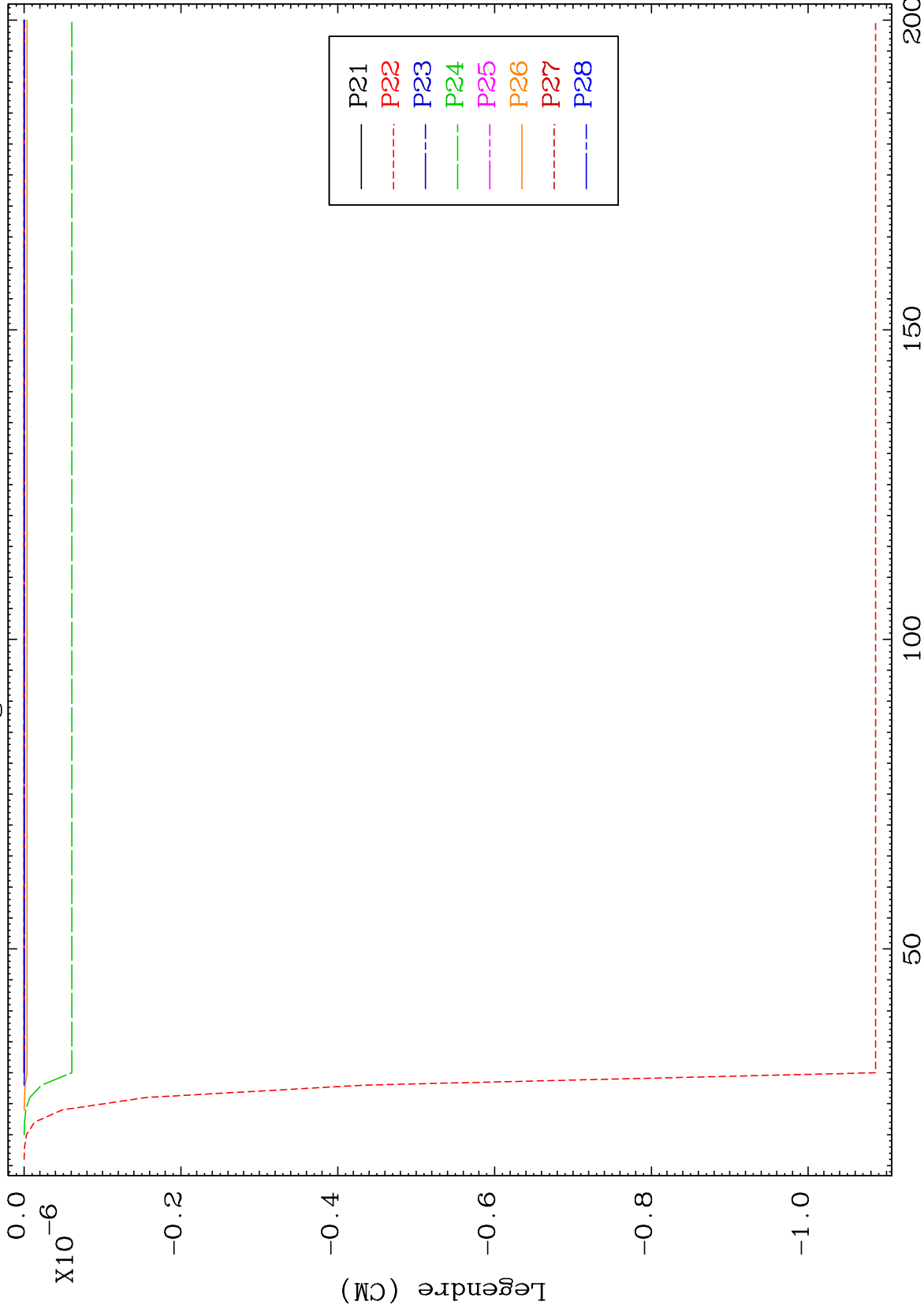
58-Ce-136



MAT 5825

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

58-Ce-136



58-Ce-136

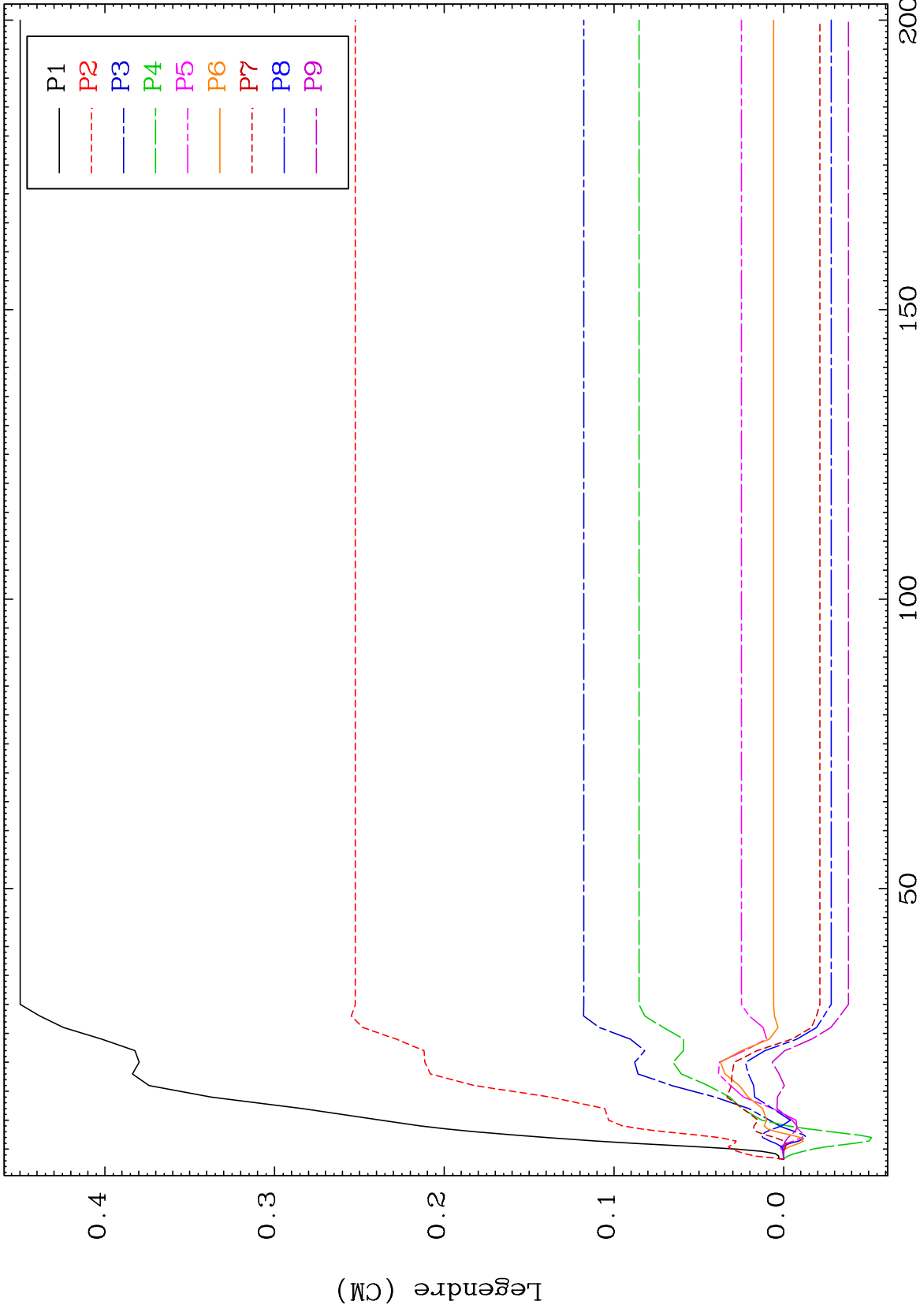
Incident Energy (MeV)

120

MAT 5825

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

58-Ce-136



121

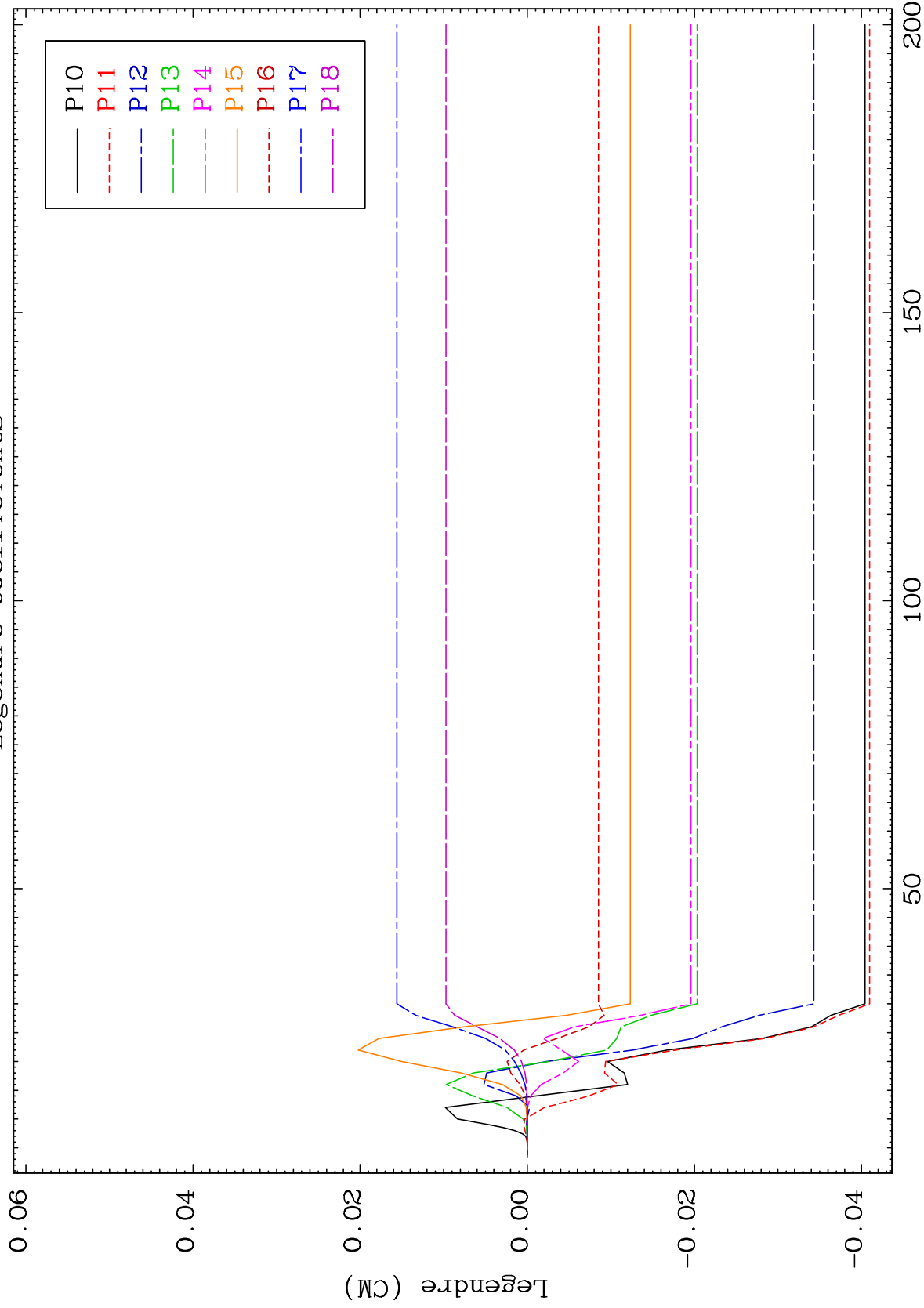
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



122

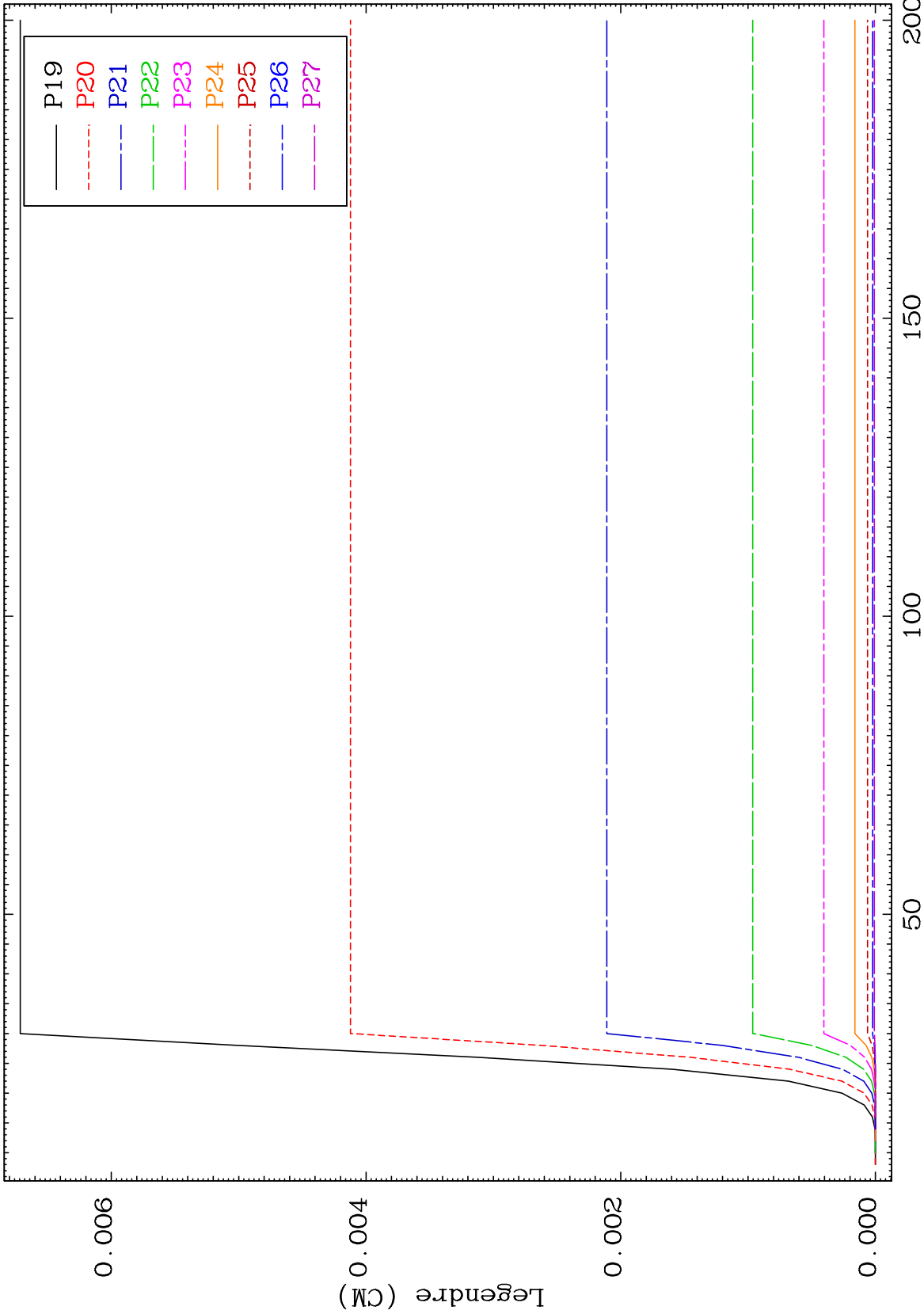
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



123

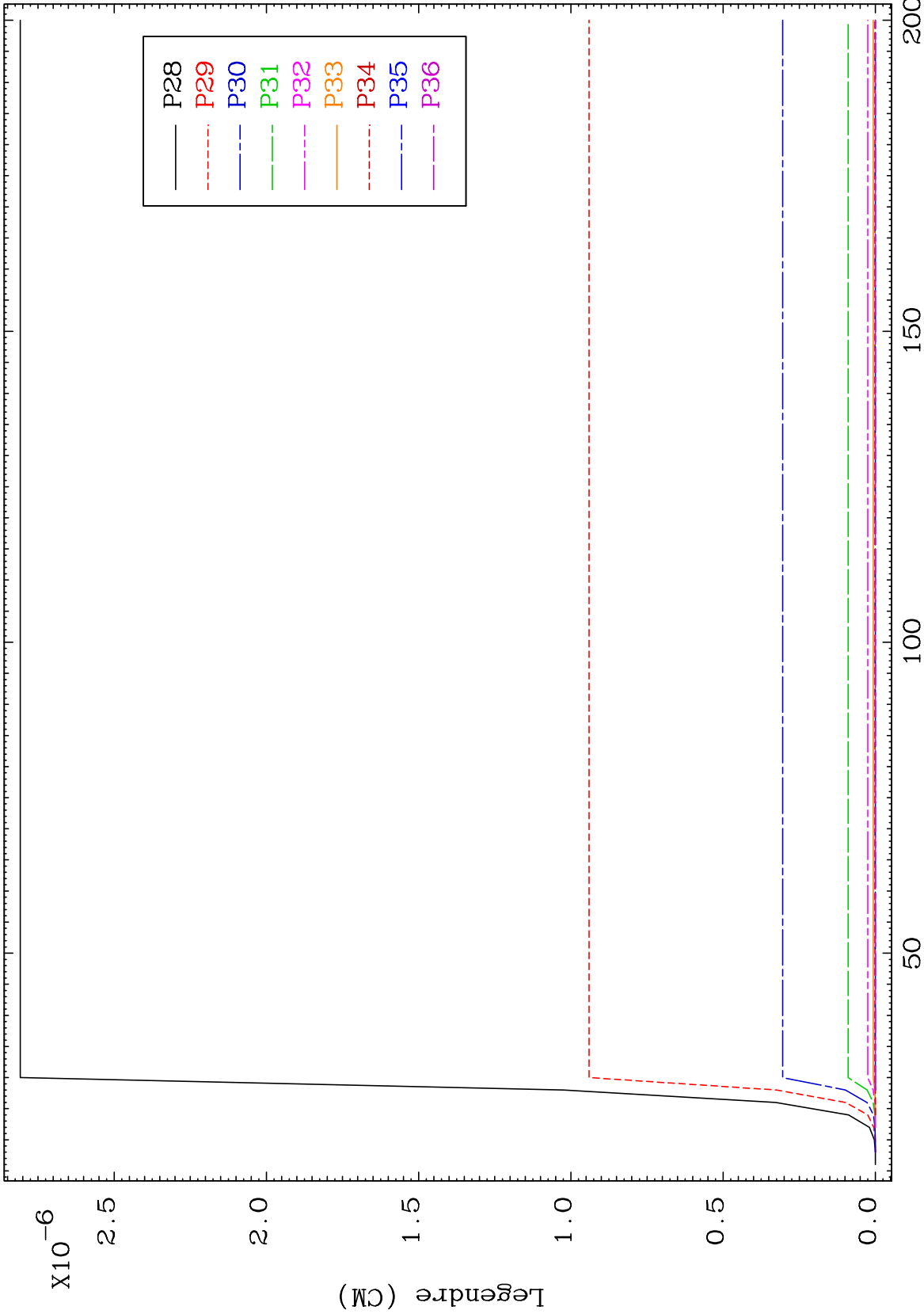
Incident Energy (MeV)

58-Ce-136

MAT 5825

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

58-Ce-136



124

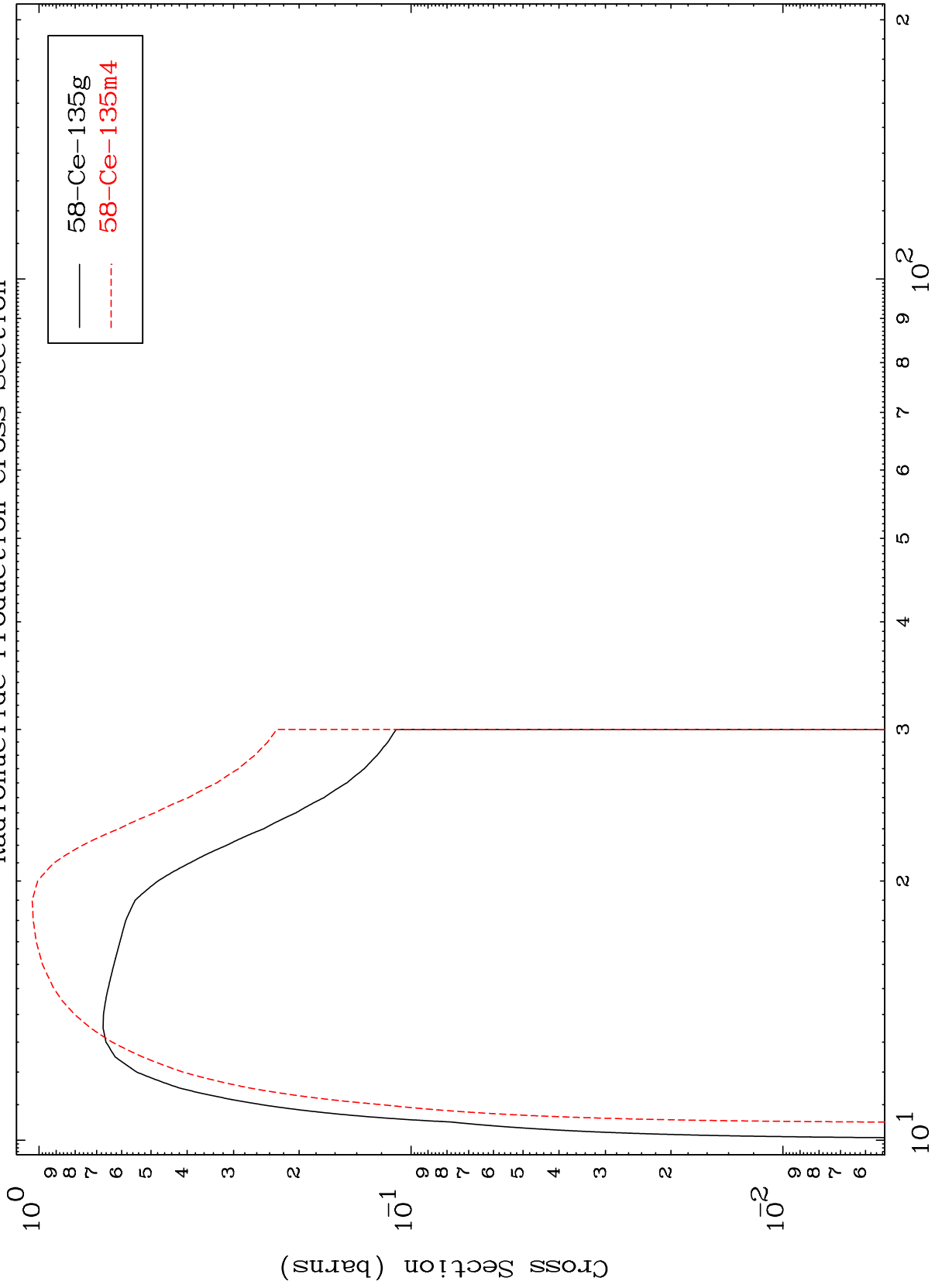
Incident Energy (MeV)

58-Ce-136

MAT 5825

58-Ce-136

(n,2n)  
Radionuclide Production Cross Section



58-Ce-136

Incident Energy (MeV)

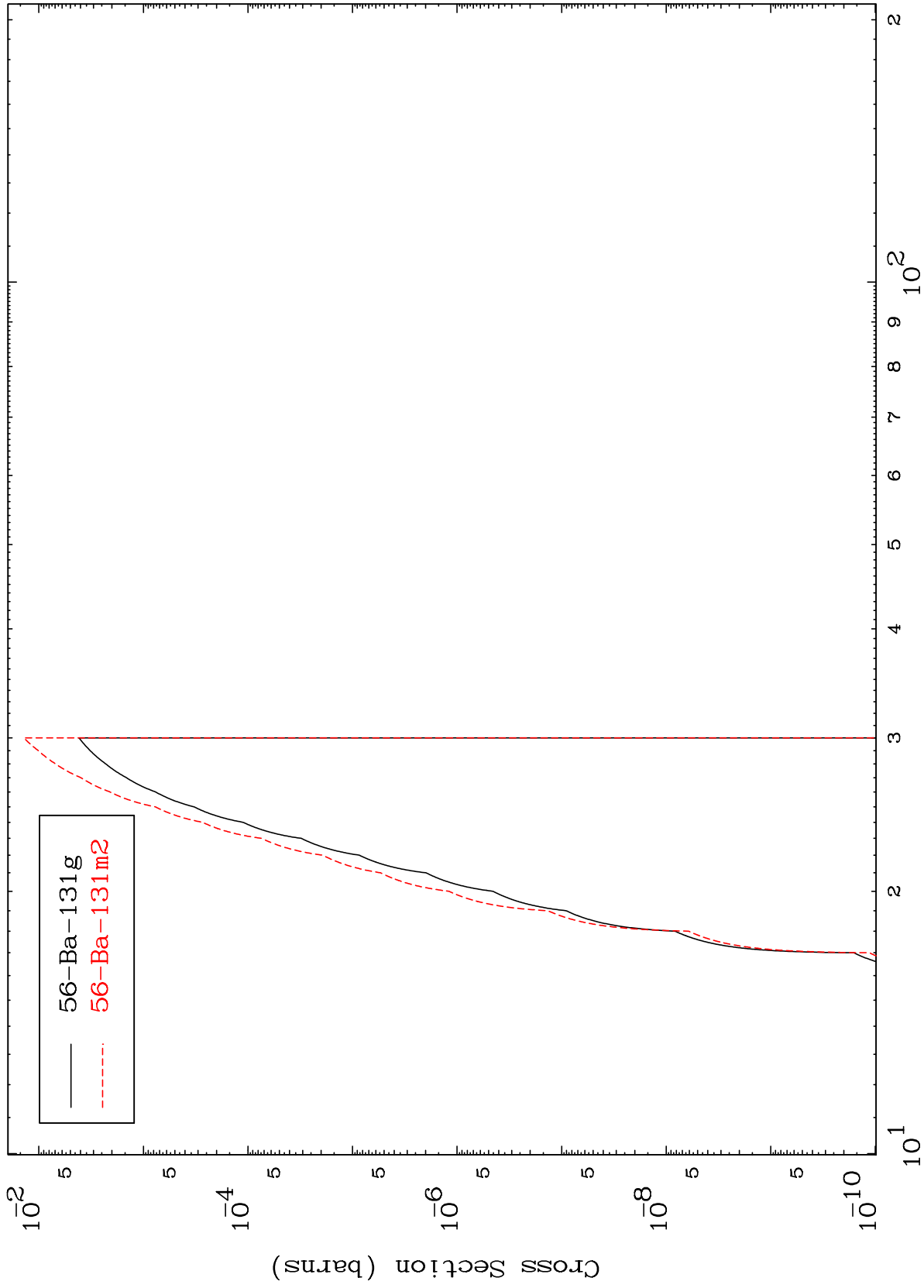
125

MAT 5825

(n,2n)  $\alpha$

58-Ce-136

Radionuclide Production Cross Section



126

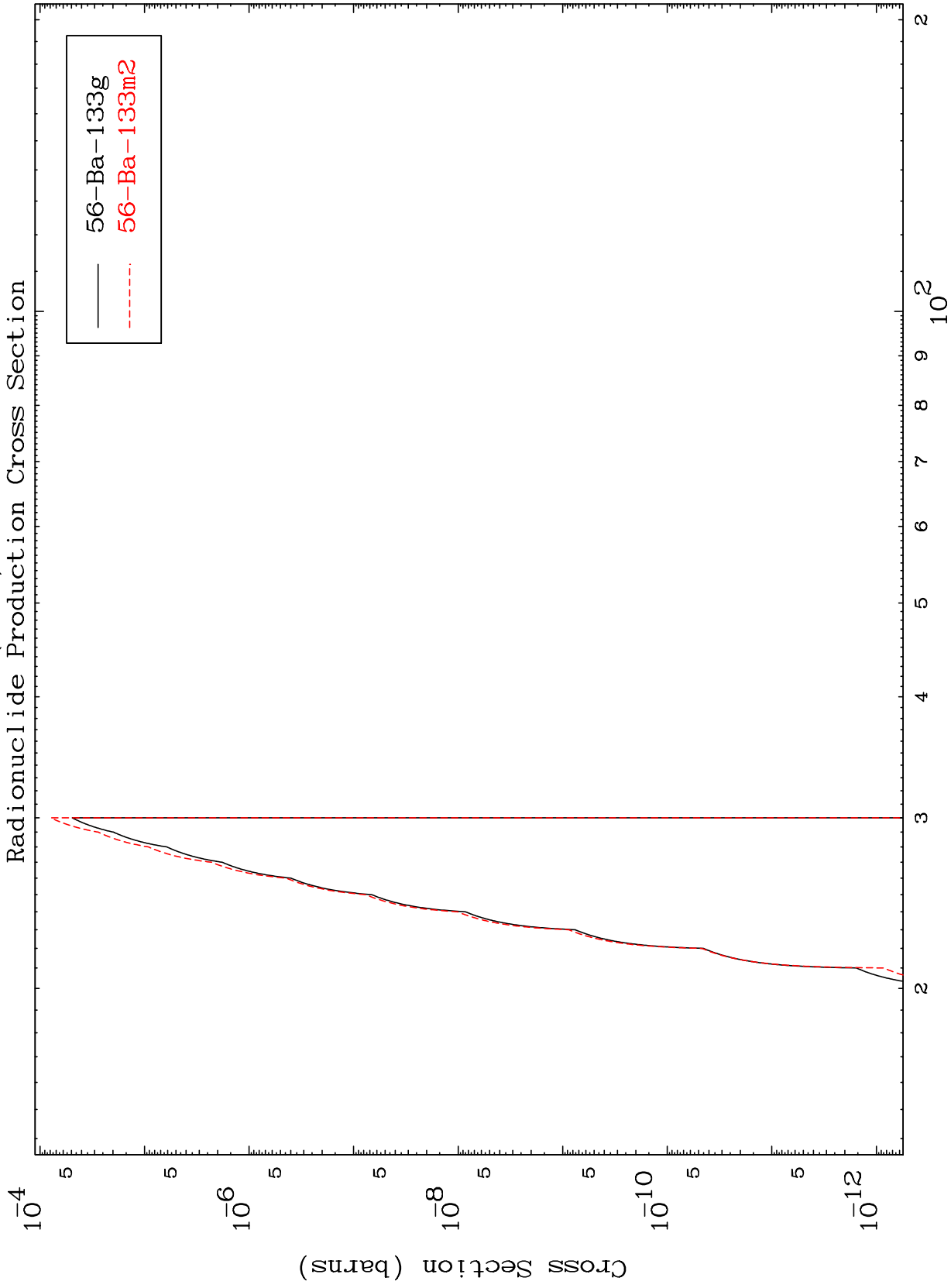
Incident Energy (MeV)

58-Ce-136

MAT 5825

(n, n') He-3

58-Ce-136



127

Incident Energy (MeV)

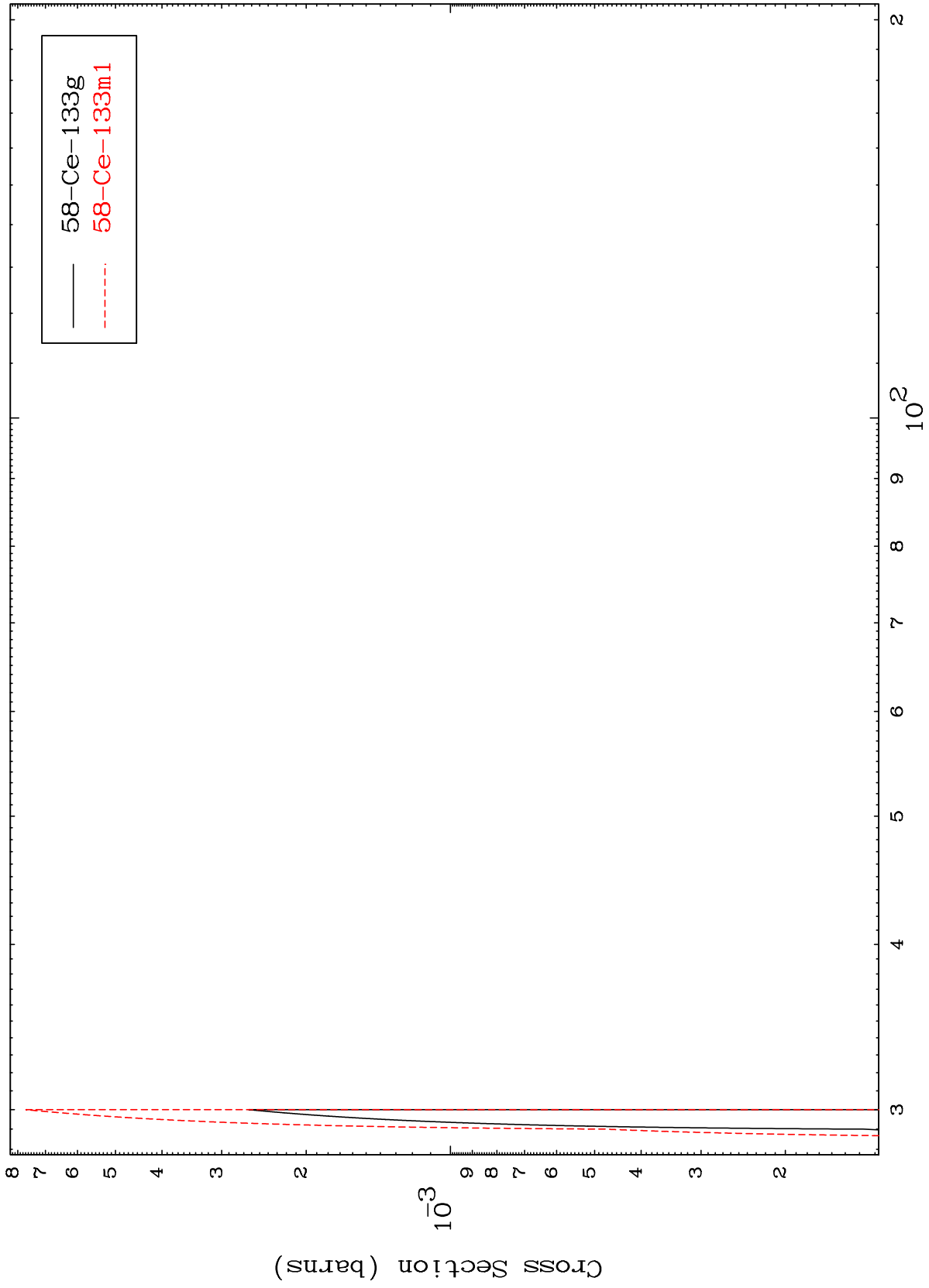
58-Ce-136



MAT 5825

58-Ce-136

(n,4n)  
Radionuclide Production Cross Section



58-Ce-136

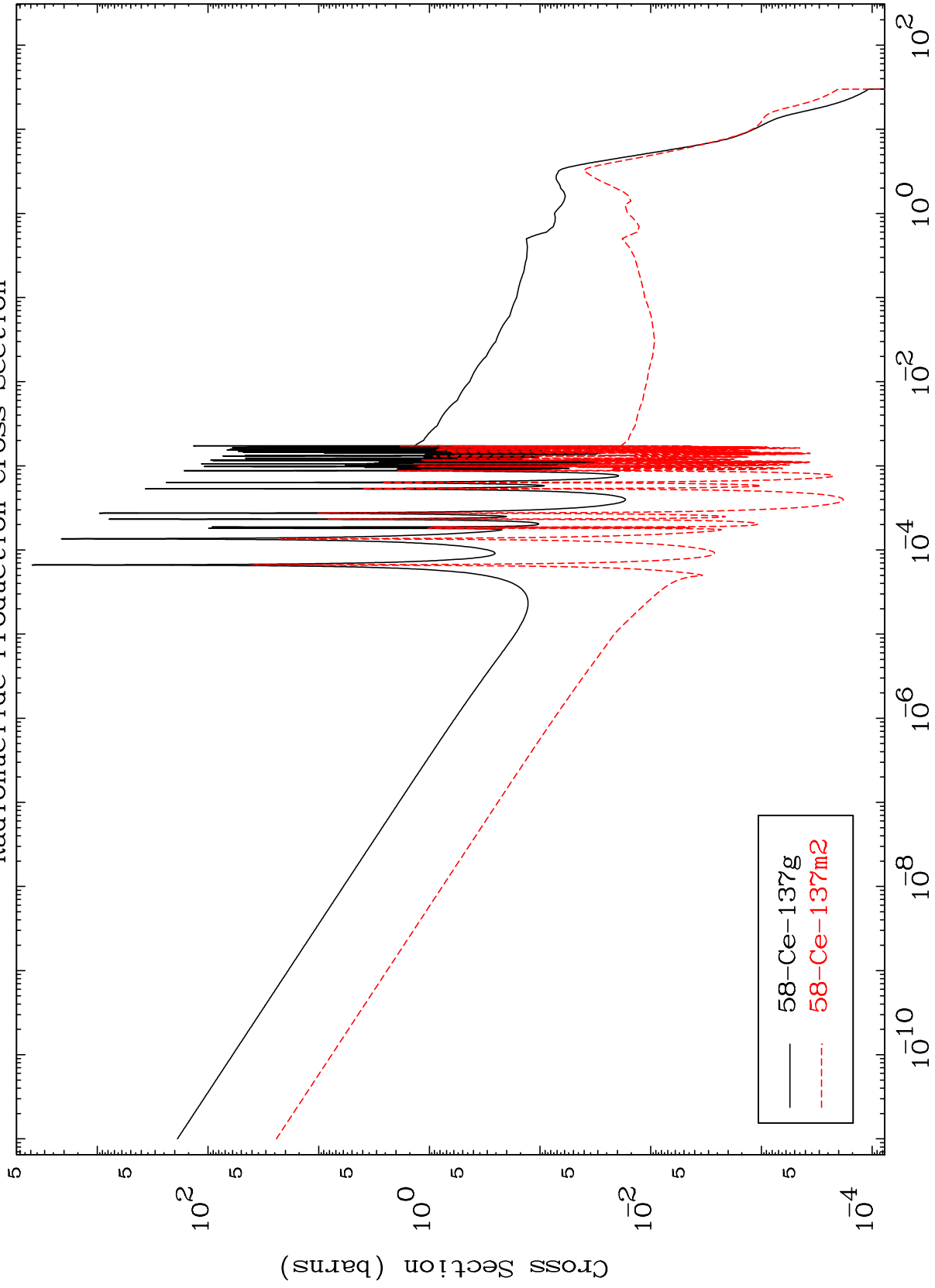
Incident Energy (MeV)

128

MAT 5825

58-Ce-136

(n,γ)  
Radionuclide Production Cross Section



129

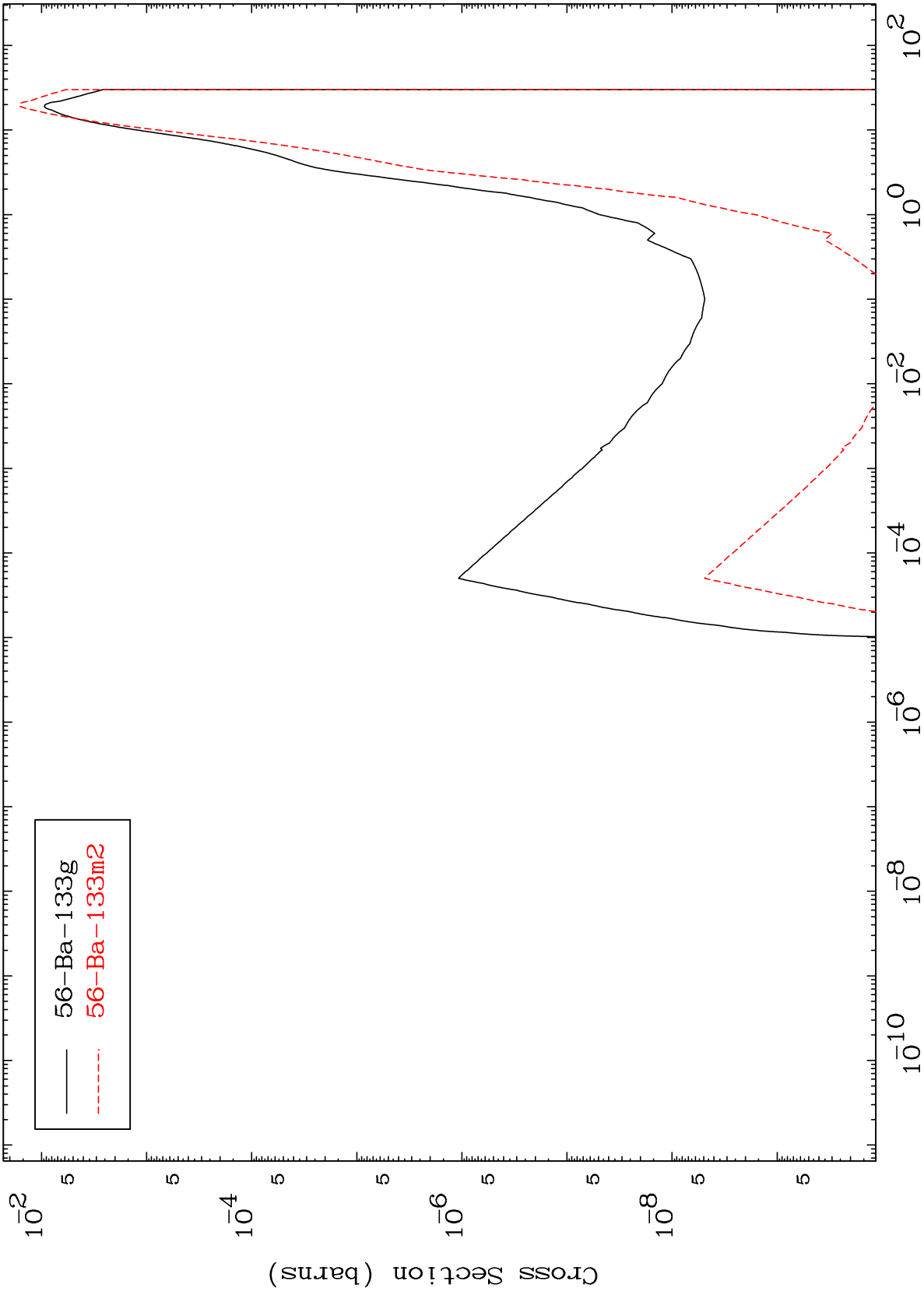
58-Ce-136

MAT 5825

(n,  $\alpha$ )

58-Ce-136

Radionuclide Production Cross Section



130

Incident Energy (MeV)

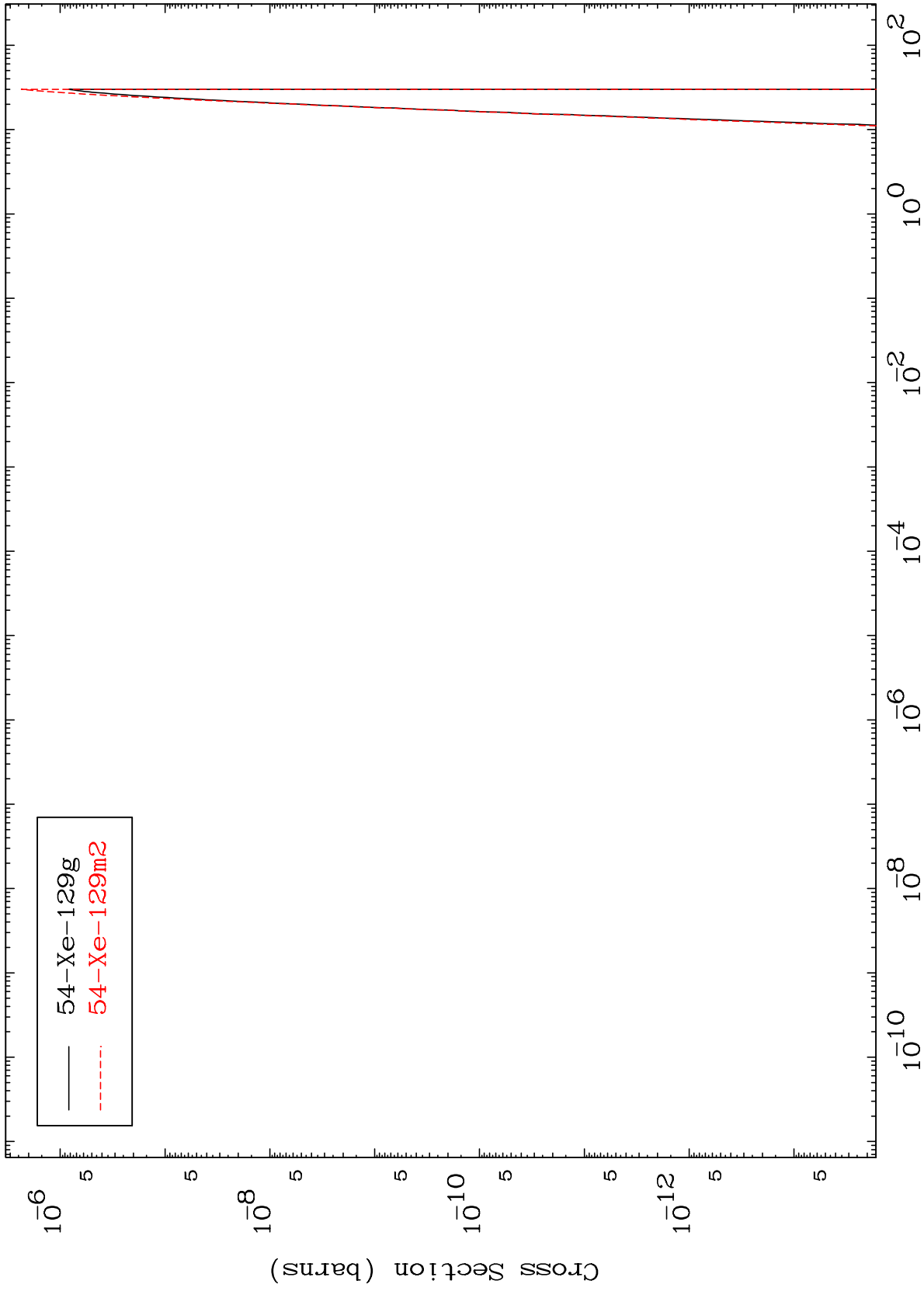
58-Ce-136

MAT 5825

(n,2α)

58-Ce-136

Radionuclide Production Cross Section



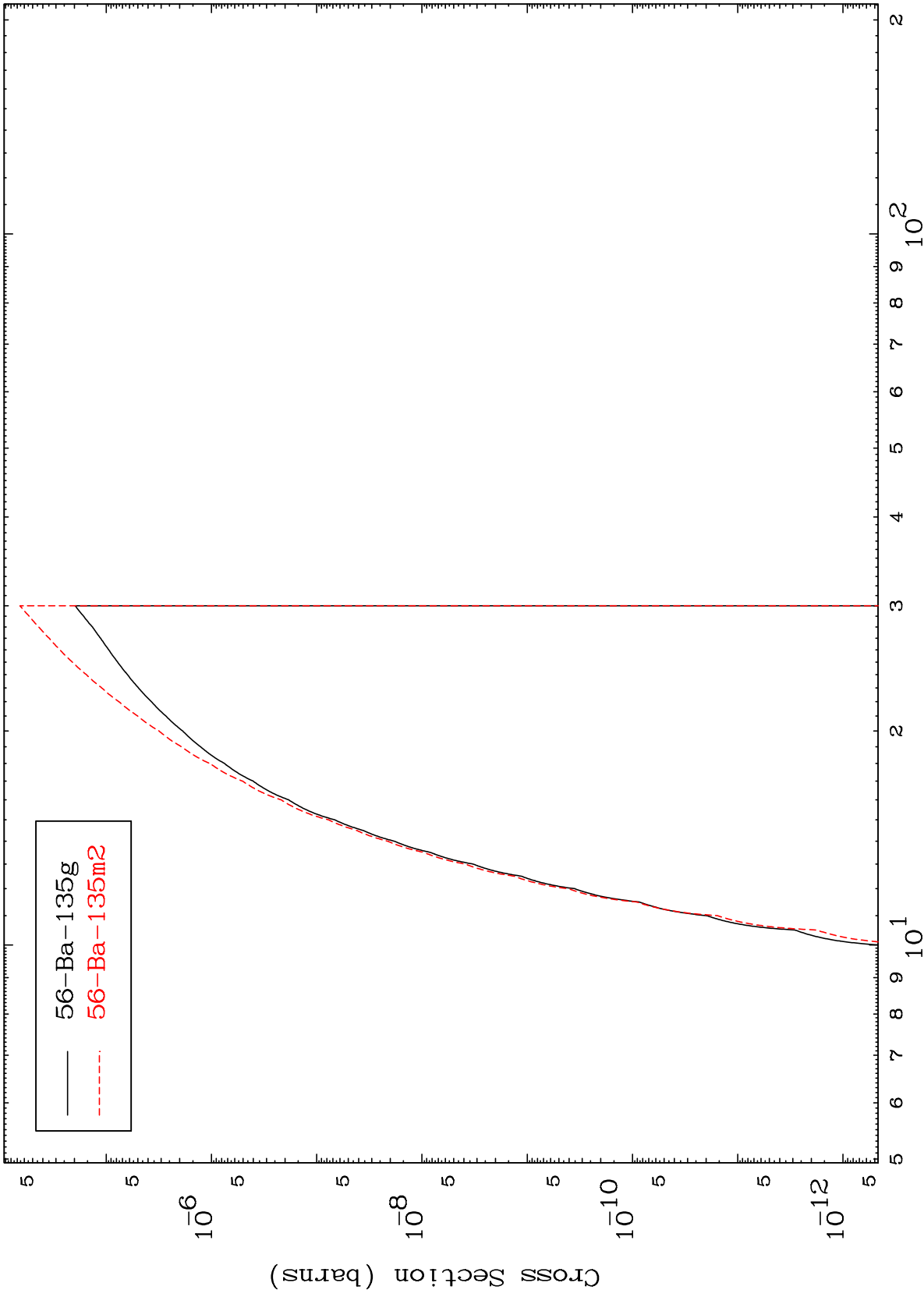
131

58-Ce-136

MAT 5825

58-Ce-136

Radionuclide Production Cross Section (n,2p)



56-Ba-135g  
56-Ba-135m2

132

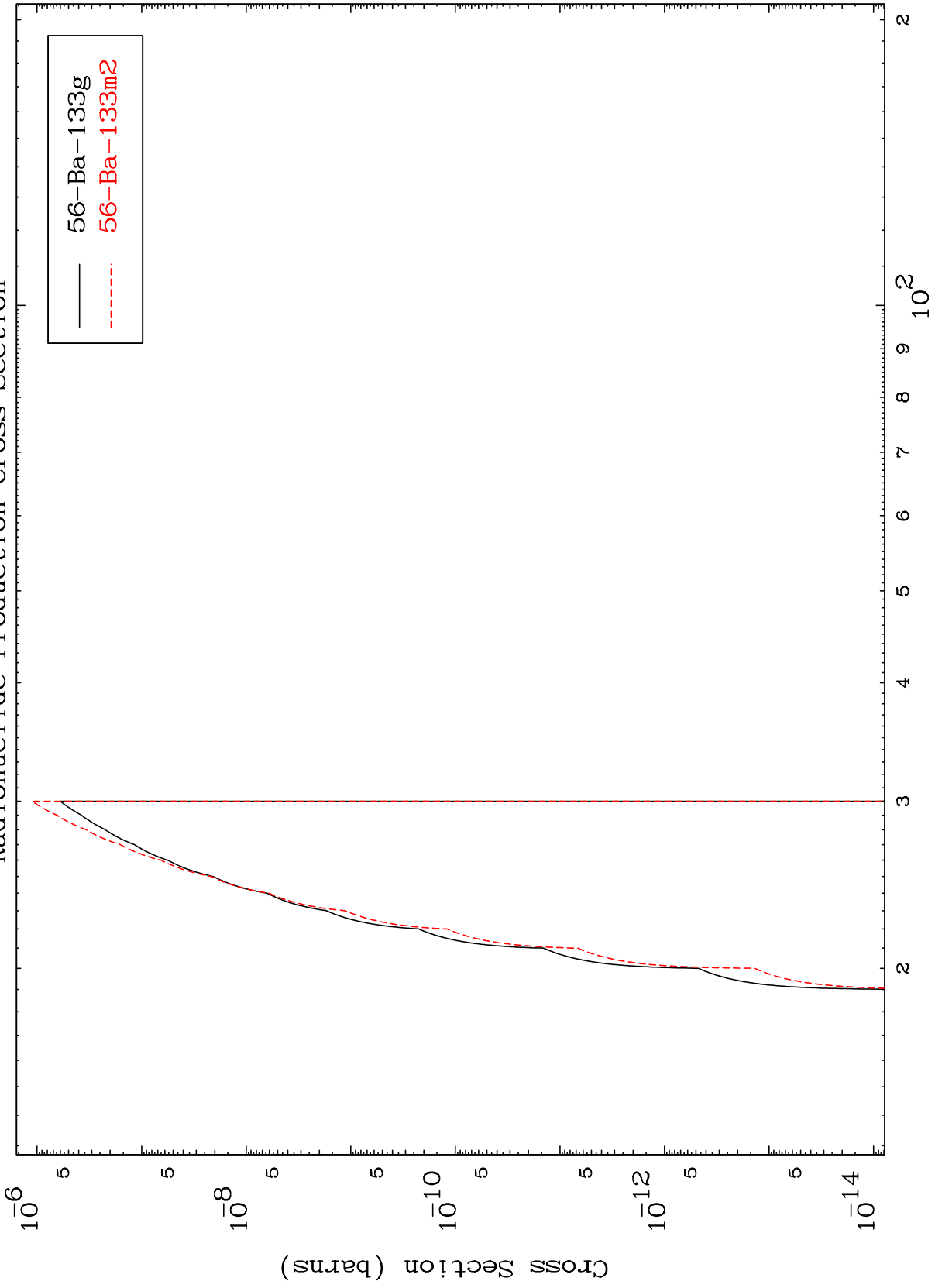
58-Ce-136

MAT 5825

(n,p) t

58-Ce-136

Radionuclide Production Cross Section



56-Ba-133g  
56-Ba-133m2

133

Incident Energy (MeV)

58-Ce-136