

Program EVALPLOT
(Version 2017-1)

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

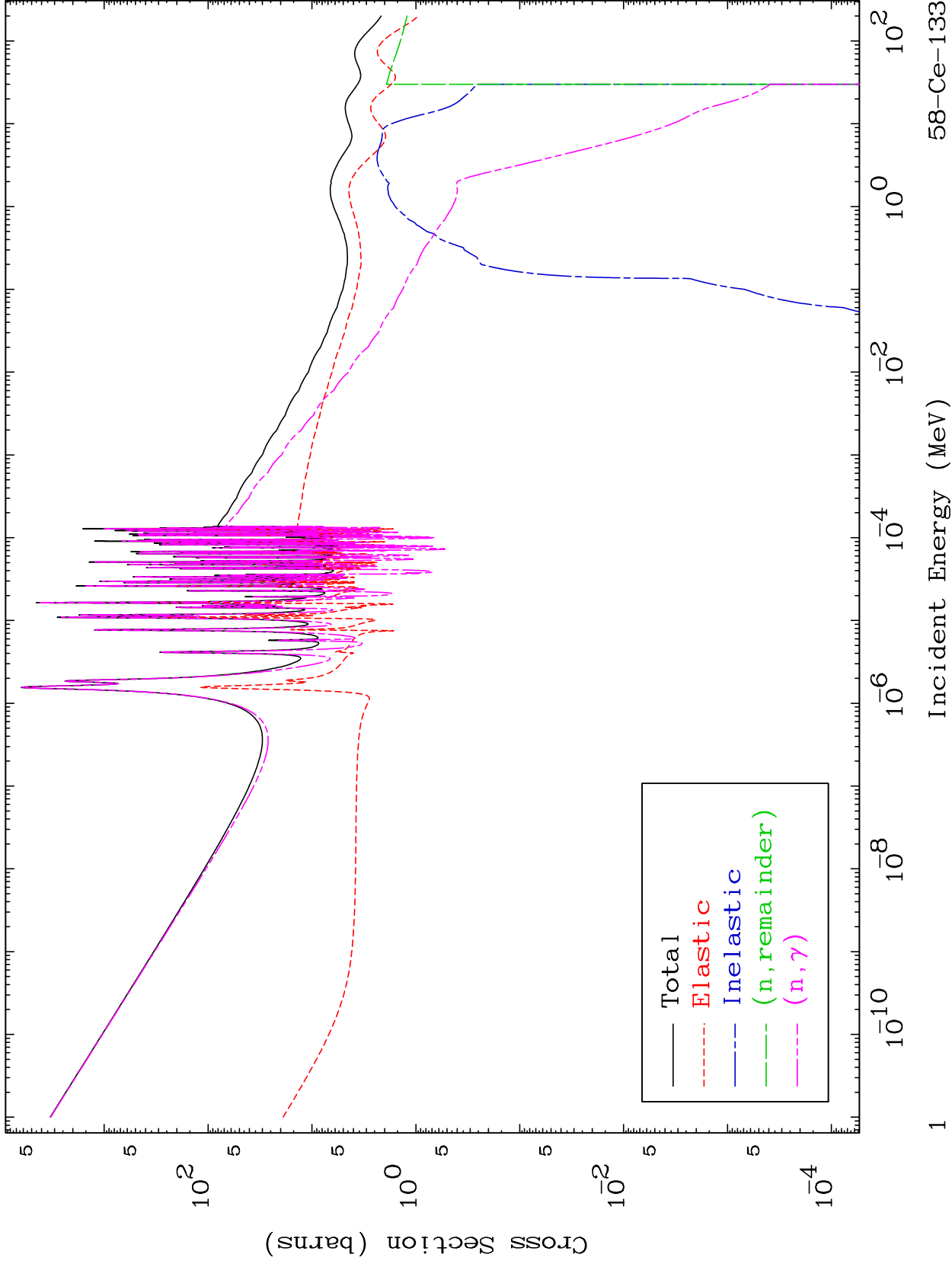
Press Mouse Button to Start

MAT 5816

Major

293 Kelvin Cross Sections

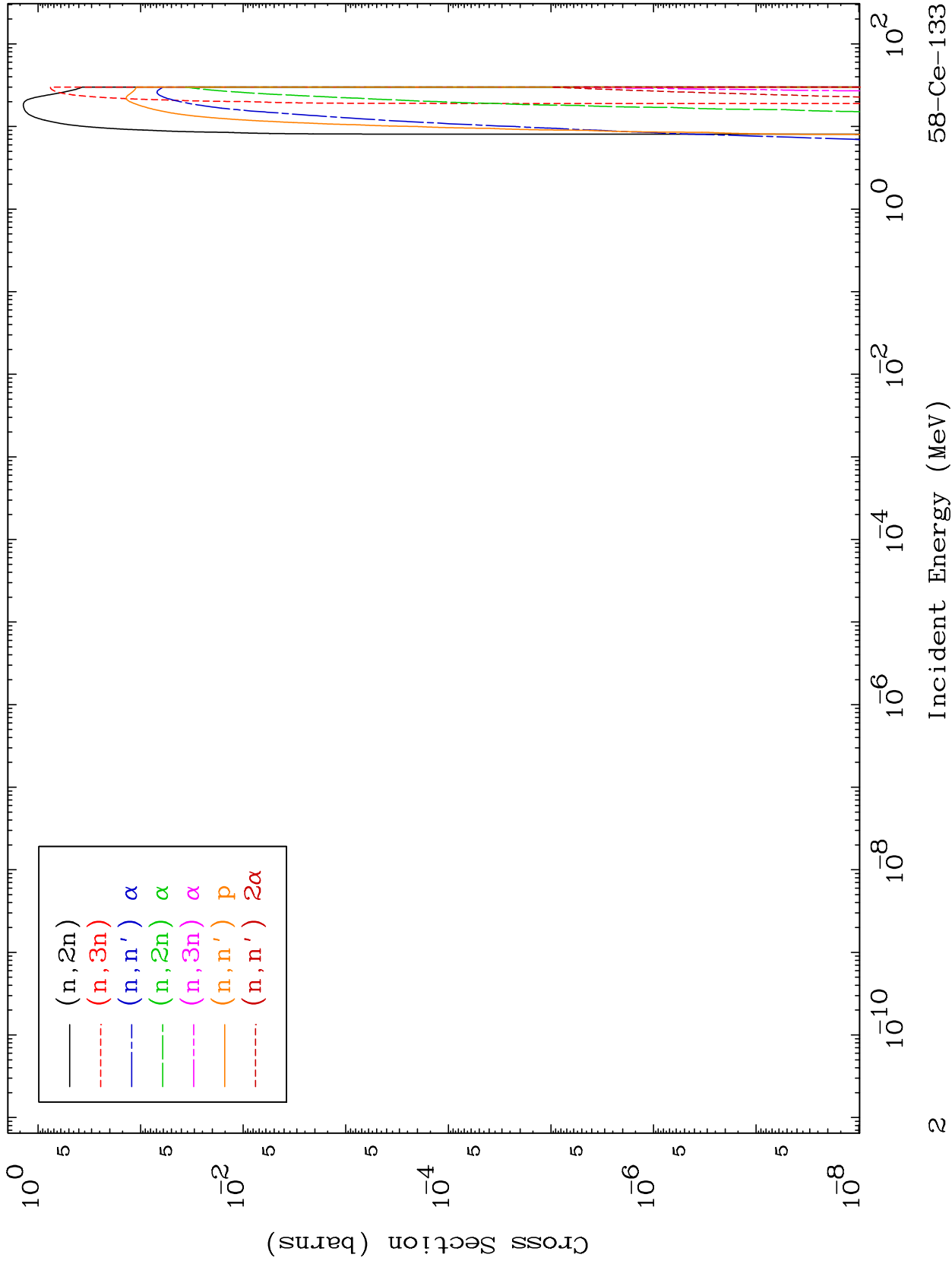
58-Ce-133

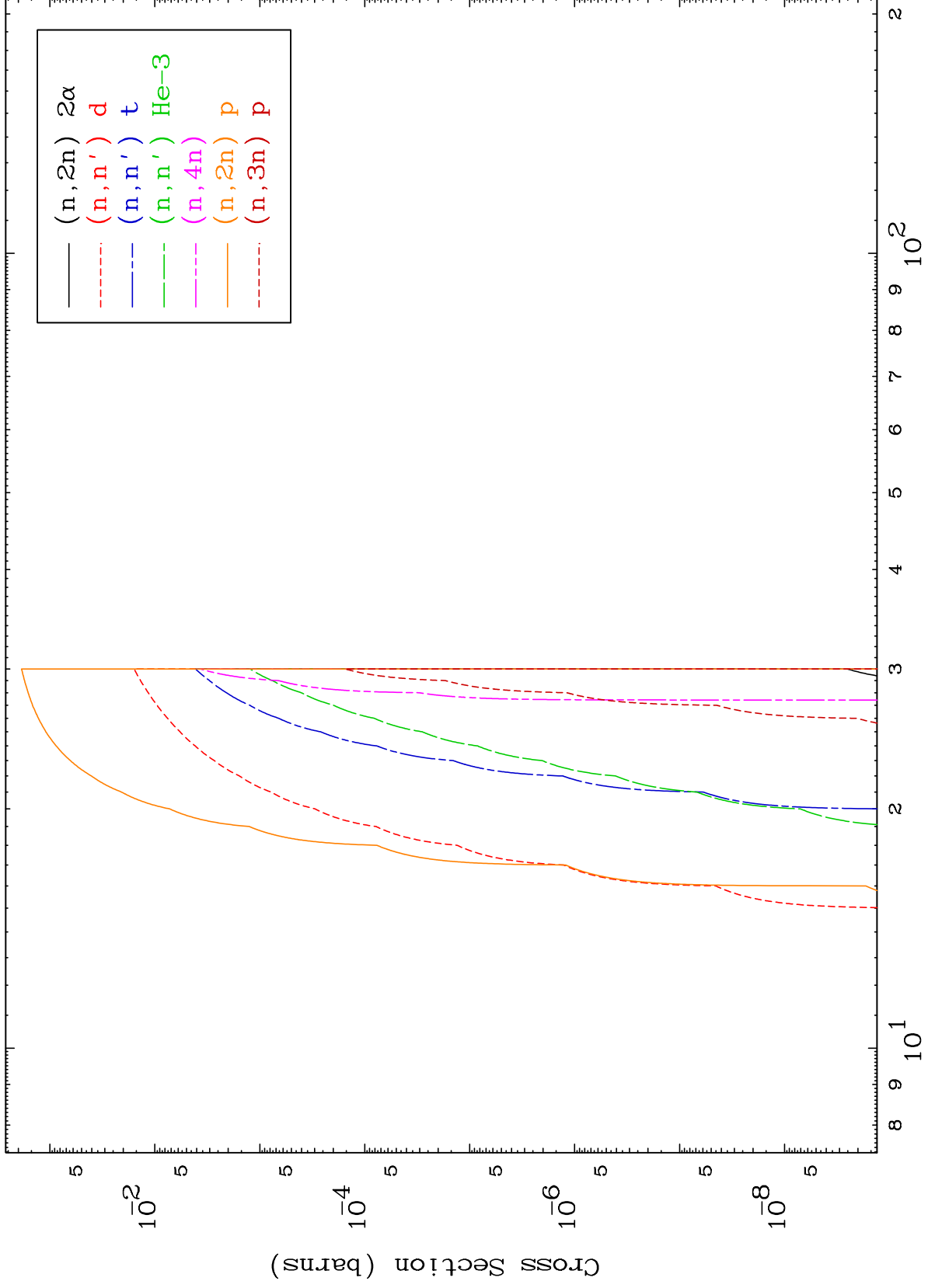


MAT 5816

Neutron Production
293 Kelvin Cross Sections

58-Ce-133

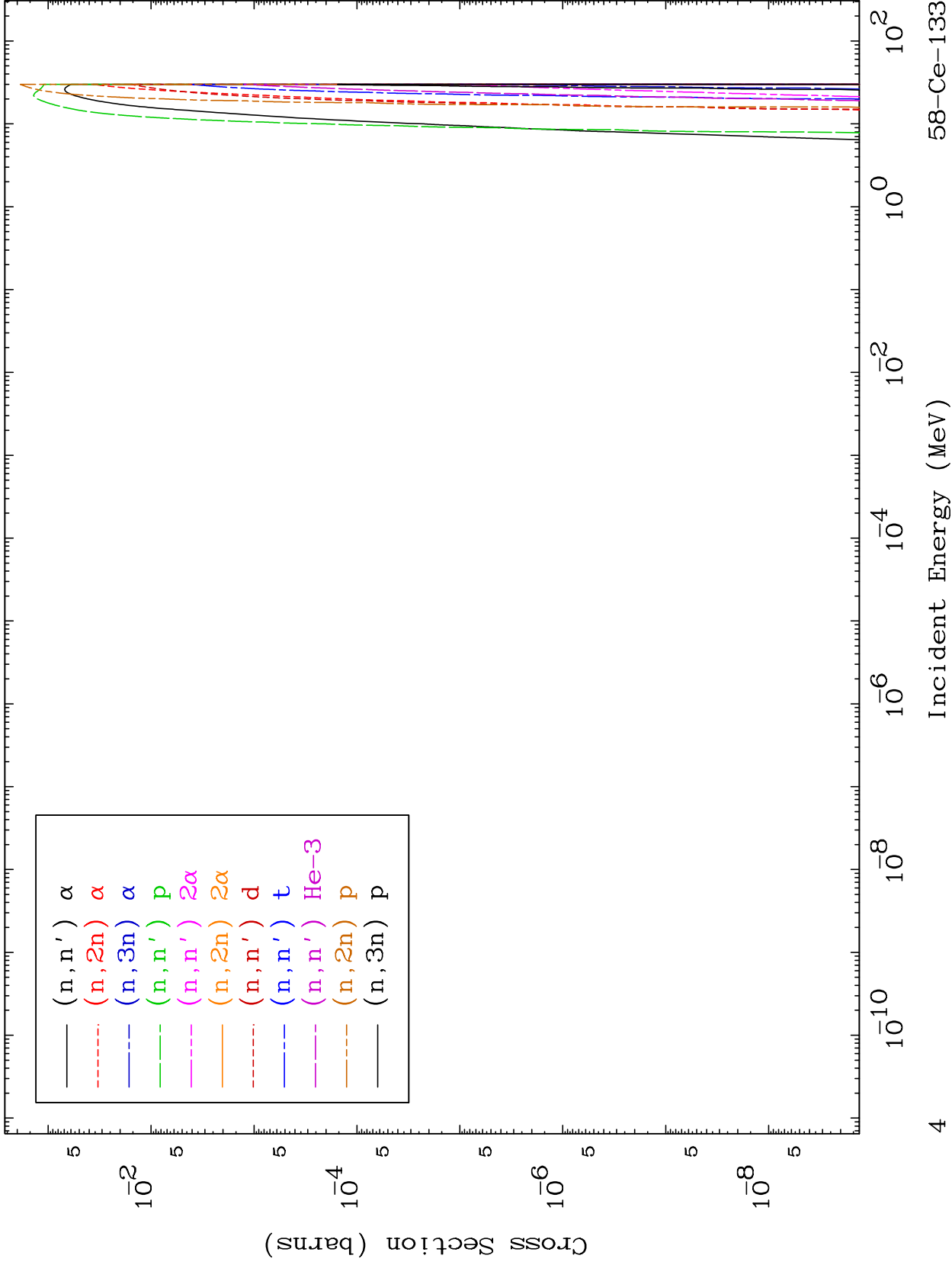




MAT 5816

Charged Particle
293 Kelvin Cross Sections

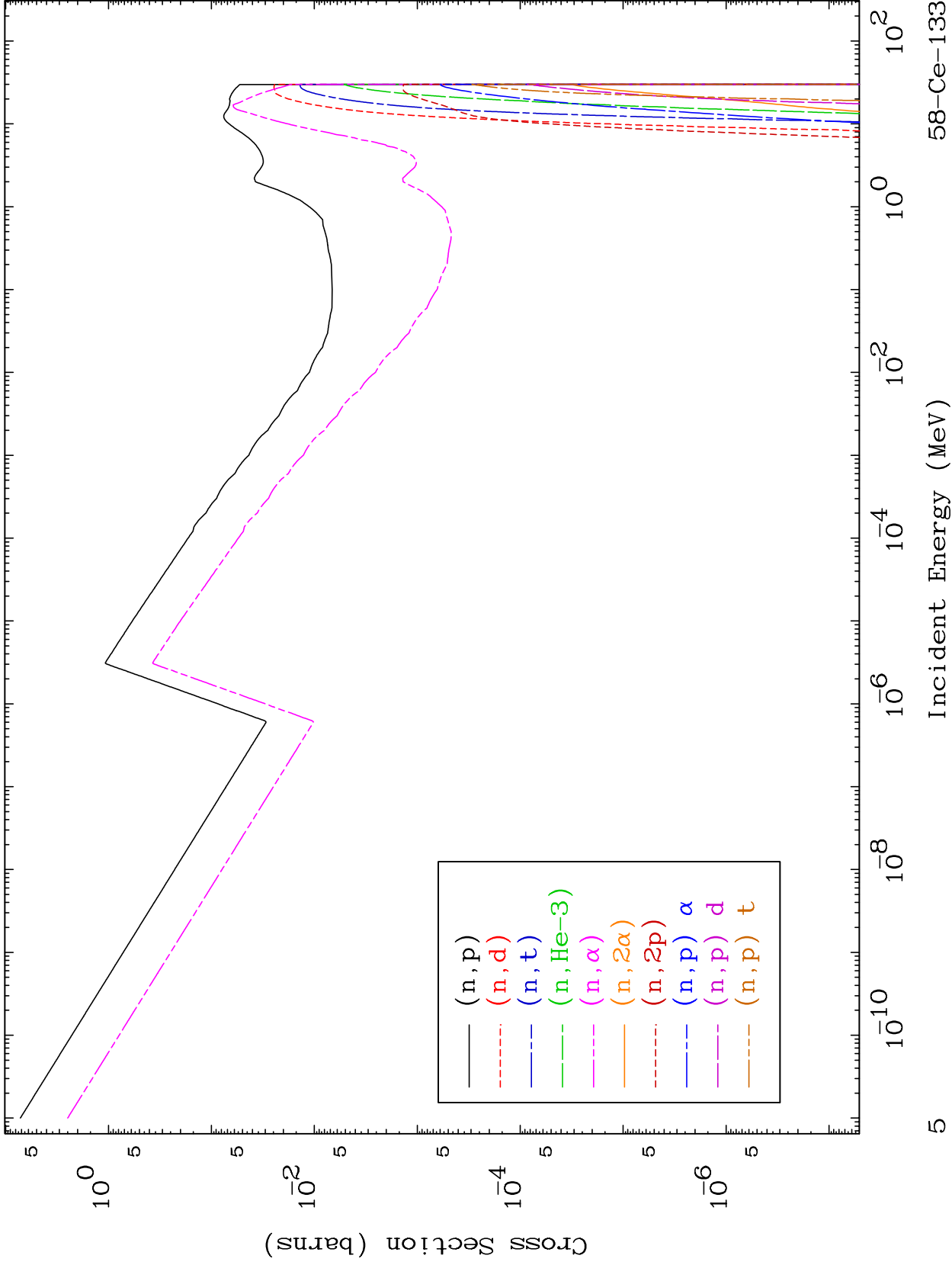
58-Ce-133

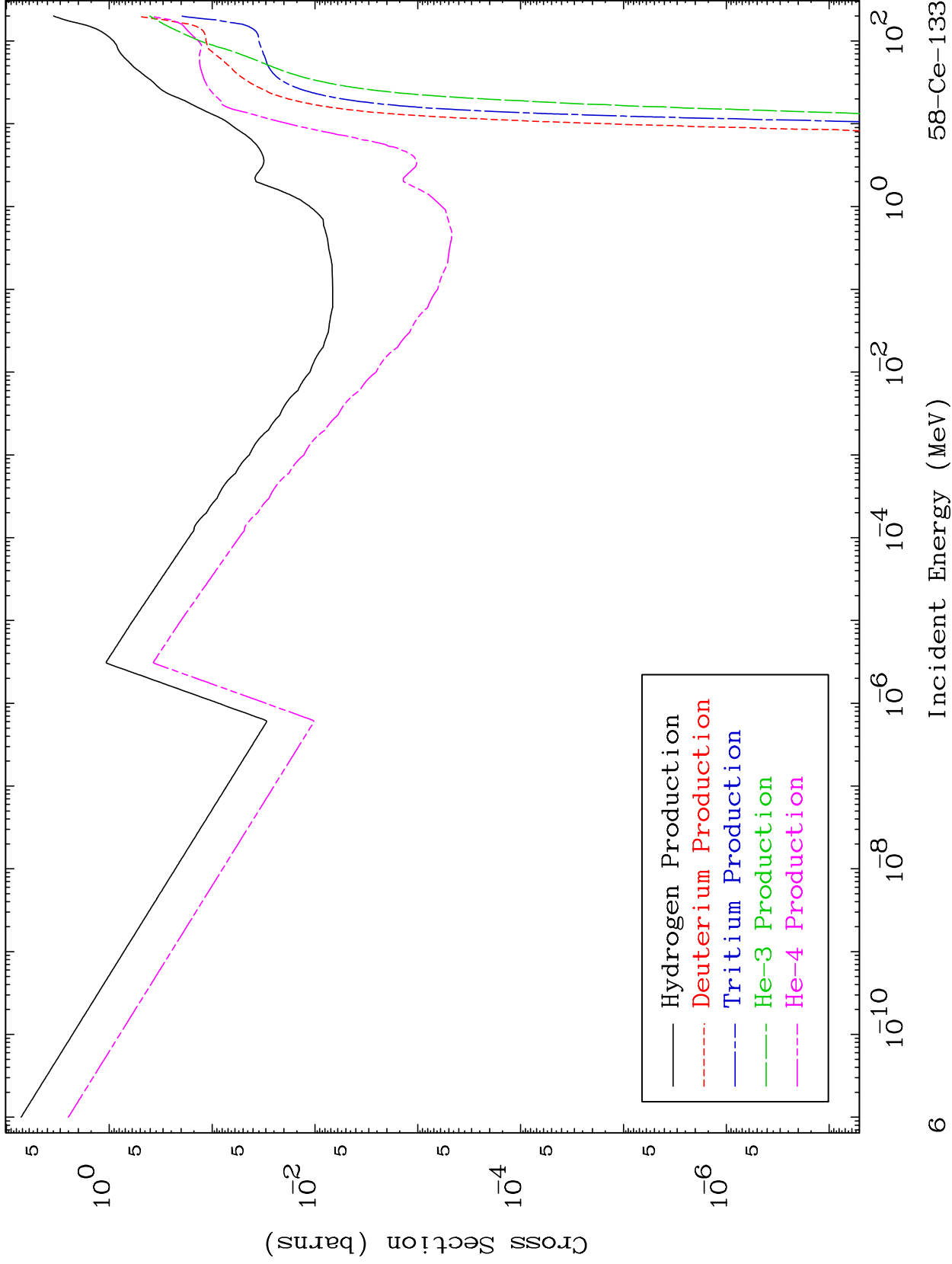


MAT 5816

Charged Particle
293 Kelvin Cross Sections

58-Ce-133

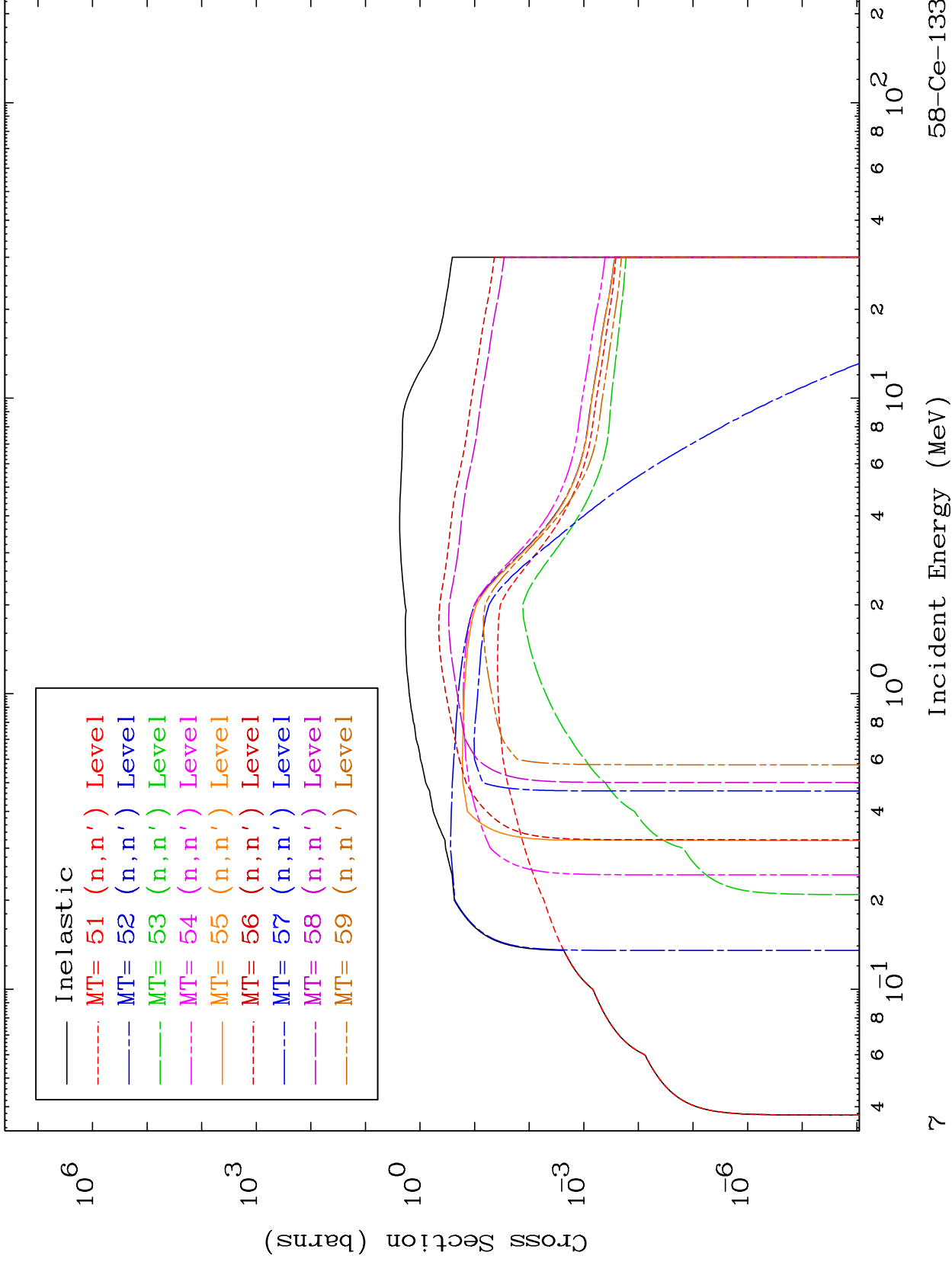




MAT 5816

(n,n') Level
293 Kelvin Cross Sections

58-Ce-133

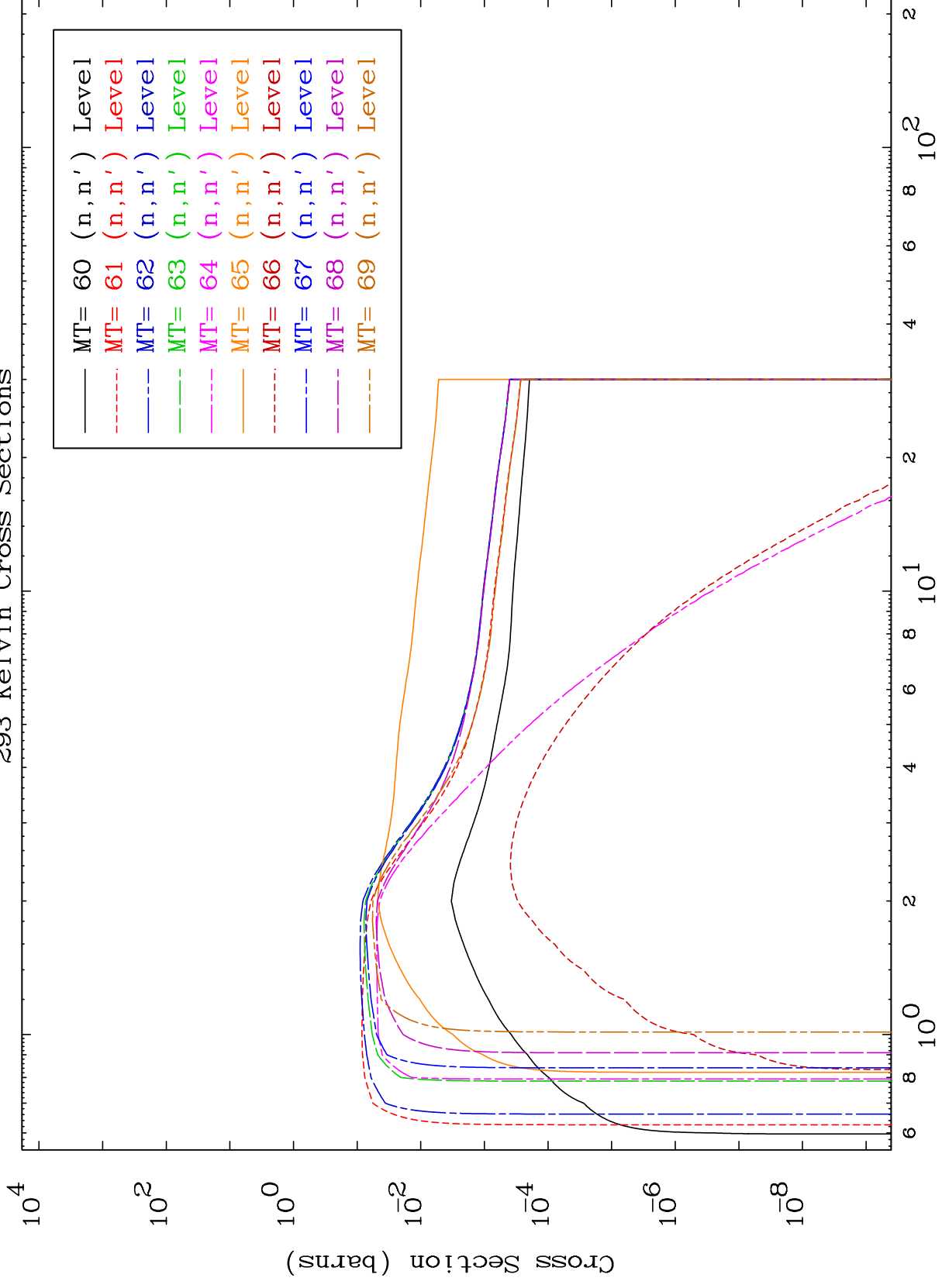


MAT 5816

(n,n') Level

58-Ce-133

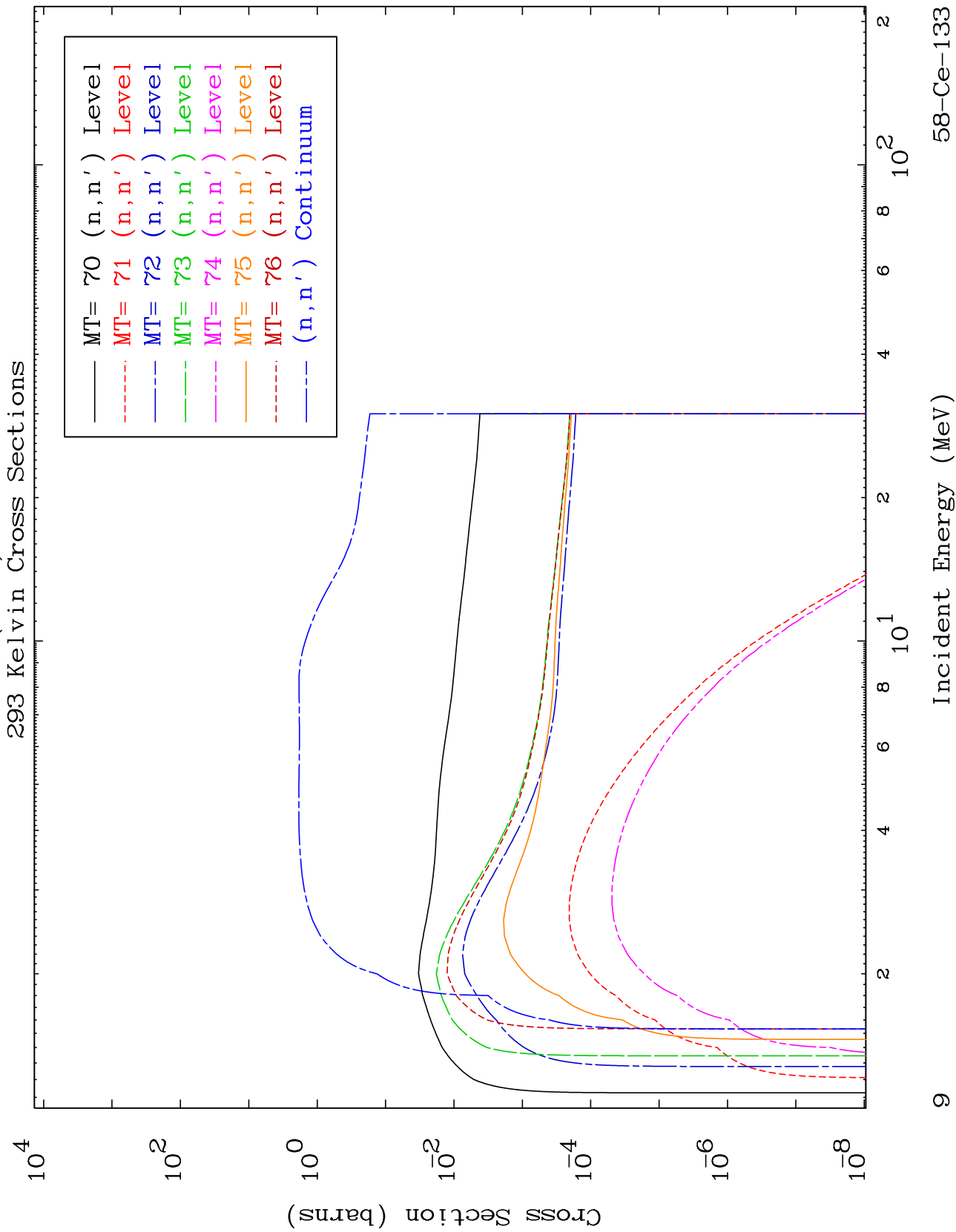
293 Kelvin Cross Sections



8

Incident Energy (MeV)

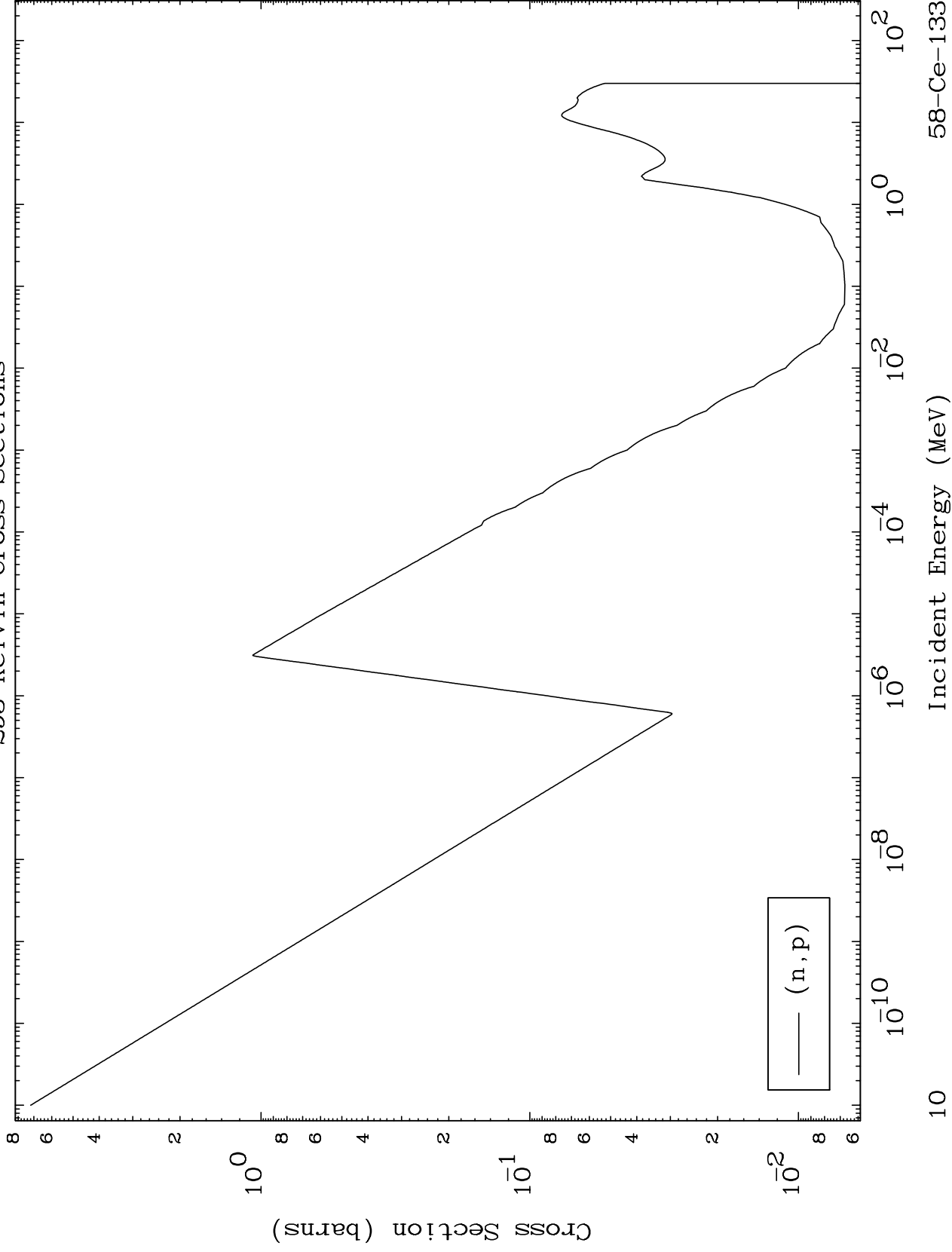
58-Ce-133



MAT 5816

(n,p) Levels
293 Kelvin Cross Sections

58-Ce-133



10

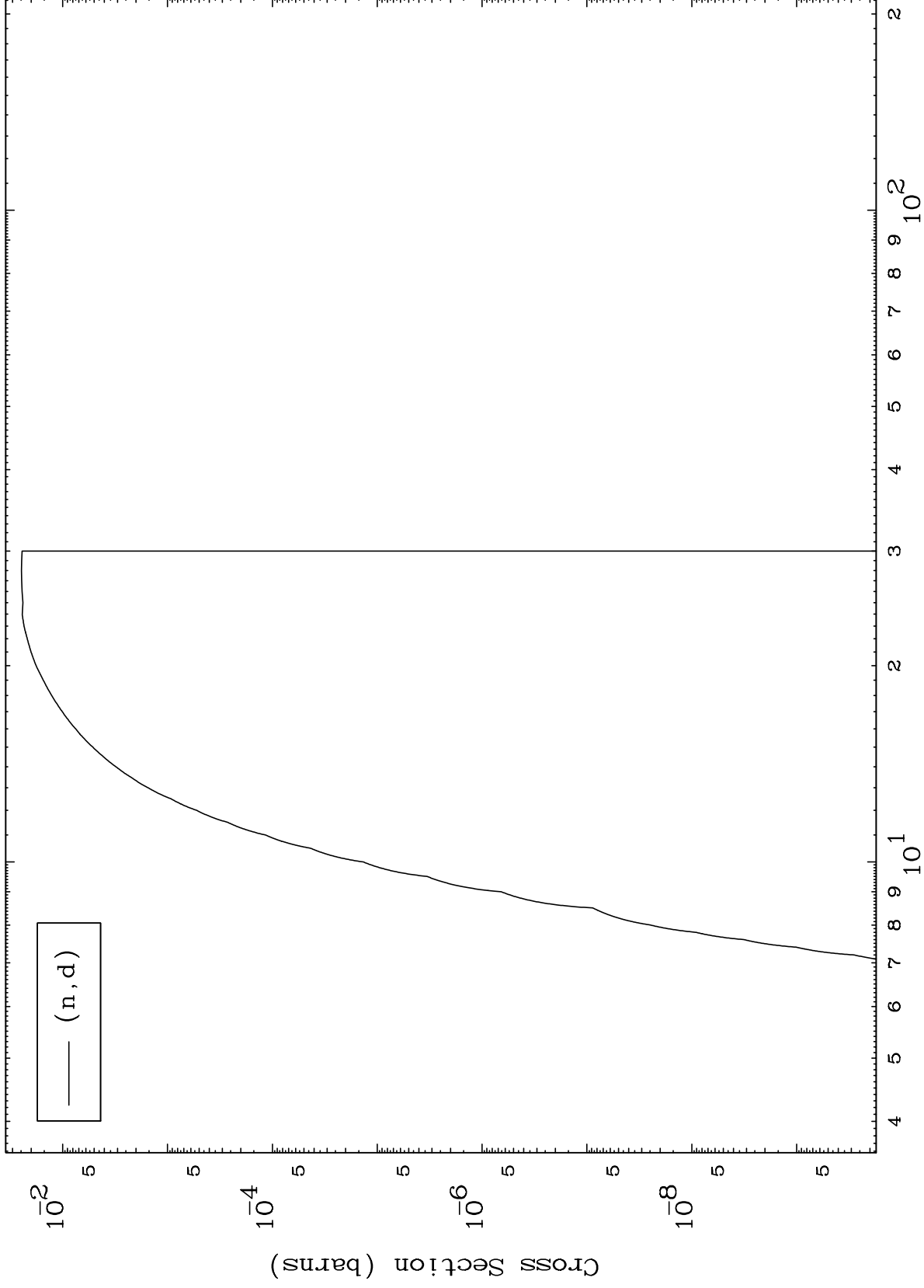
Incident Energy (MeV)

58-Ce-133

MAT 5816

(n,d) Levels
293 Kelvin Cross Sections

58-Ce-133



11

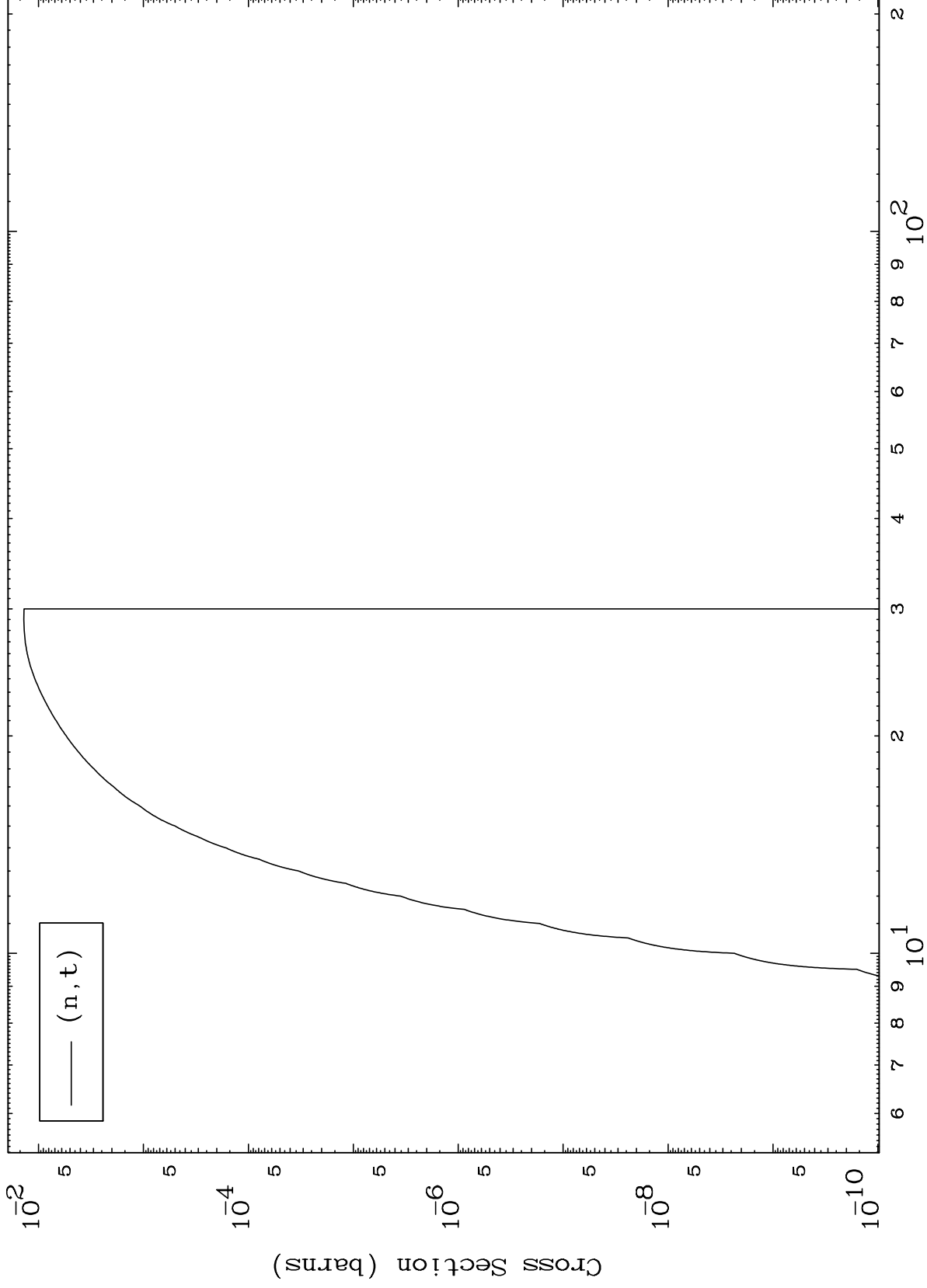
Incident Energy (MeV)

58-Ce-133

MAT 5816

(n,t) Levels
293 Kelvin Cross Sections

58-Ce-133



12

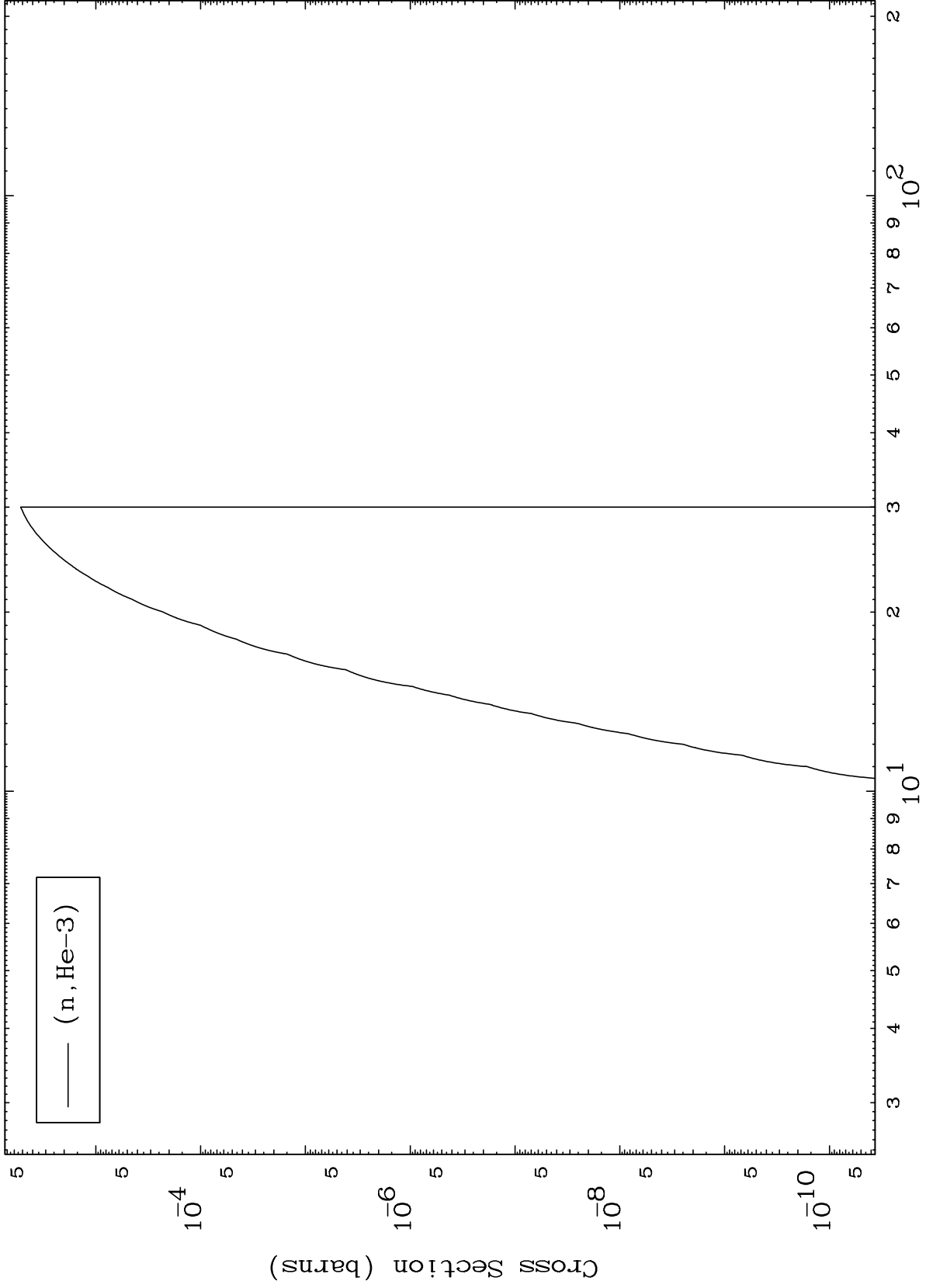
Incident Energy (MeV)

58-Ce-133

MAT 5816

(n,He3) Levels
293 Kelvin Cross Sections

58-Ce-133



13

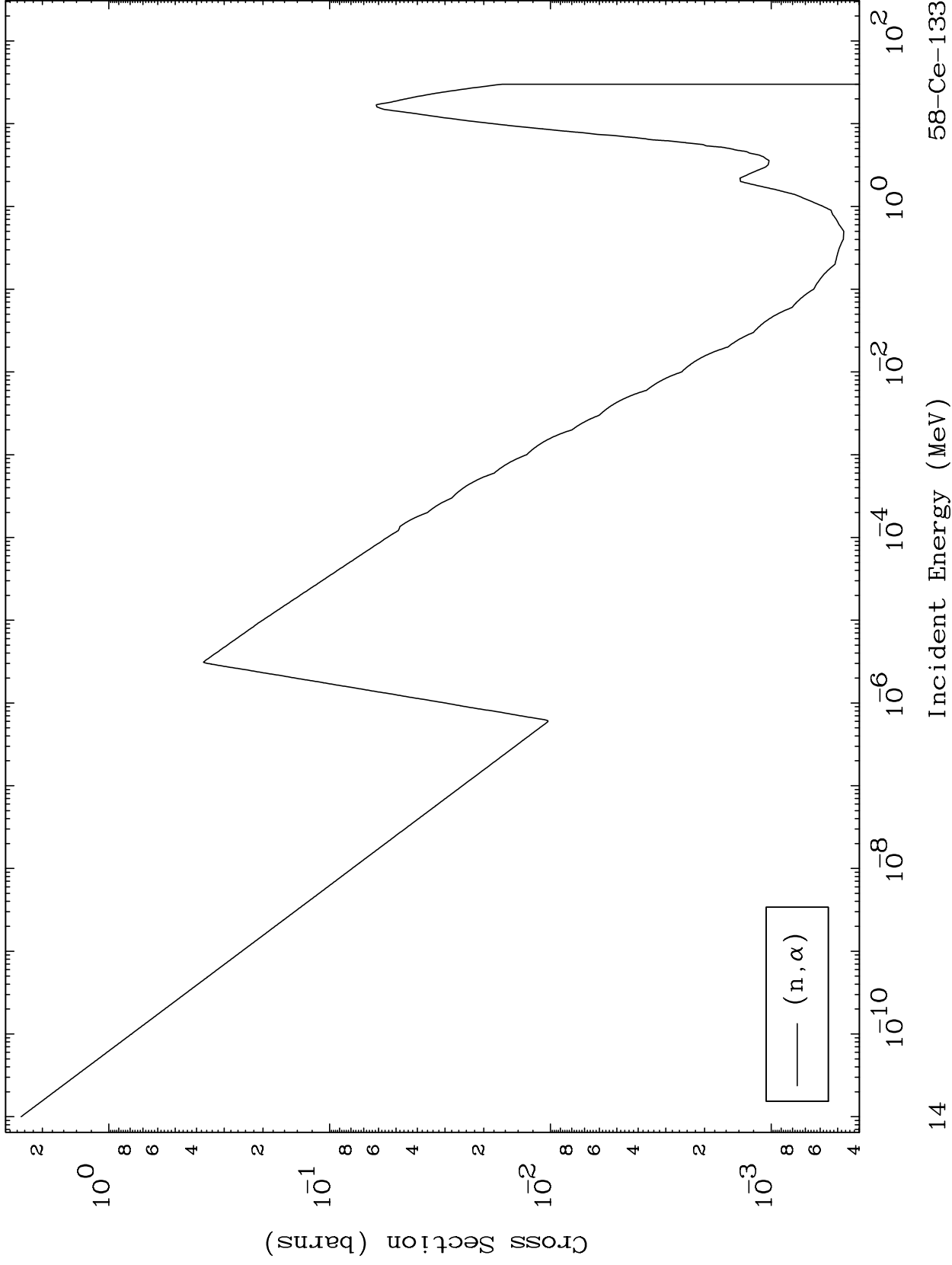
Incident Energy (MeV)

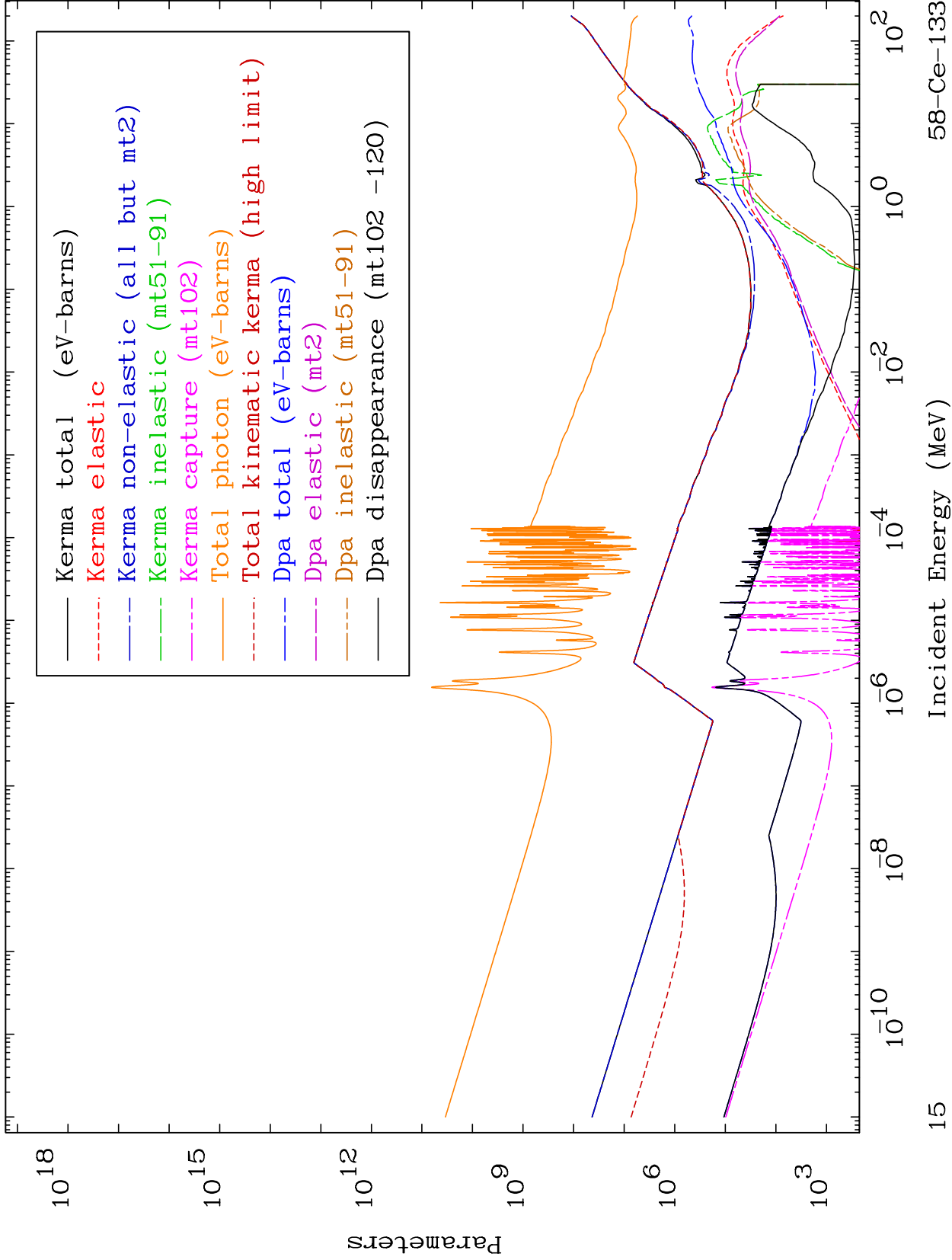
58-Ce-133

MAT 5816

(n,α) Levels
293 Kelvin Cross Sections

58-Ce-133

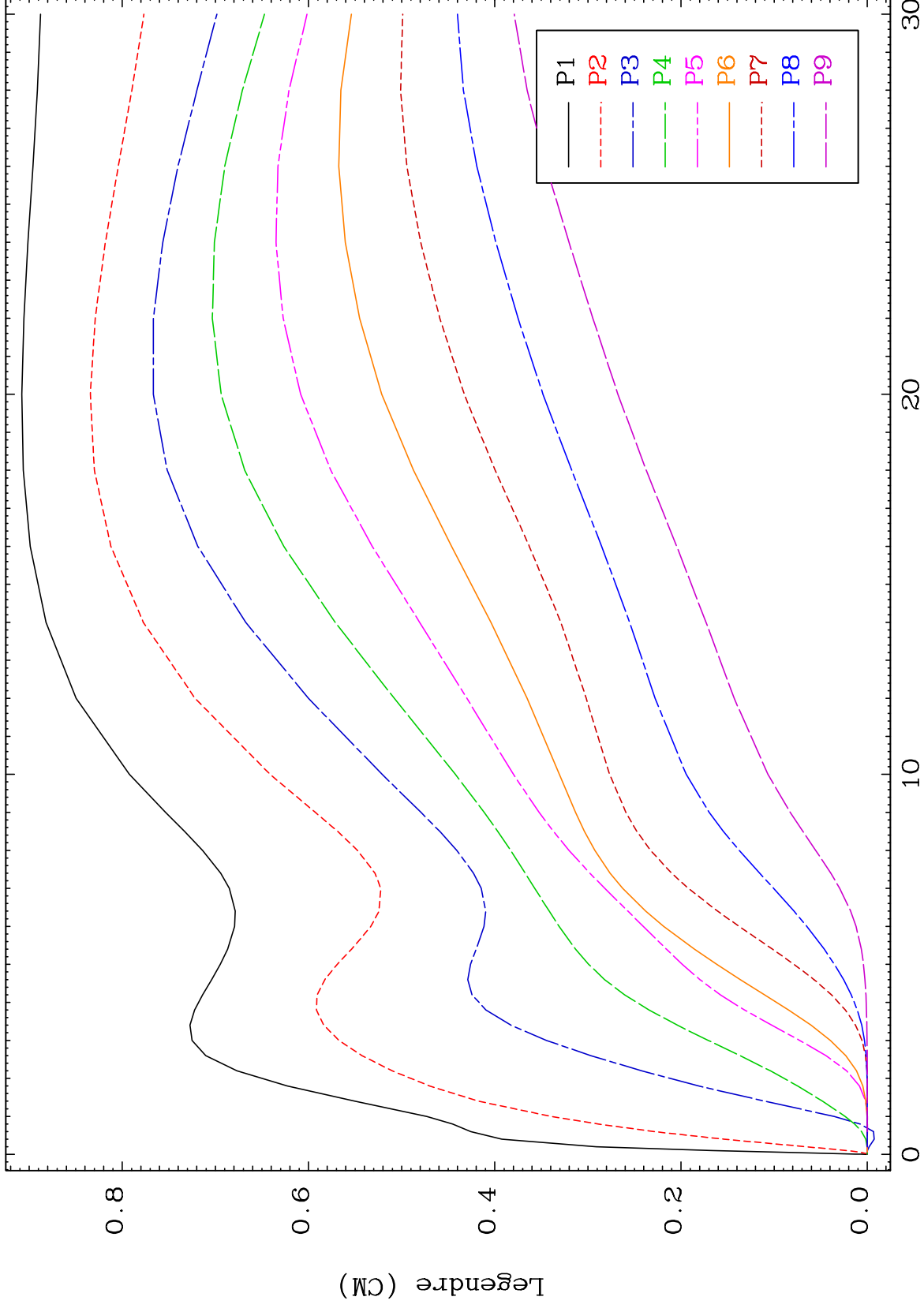




MAT 5816

Elastic Legendre Coefficients

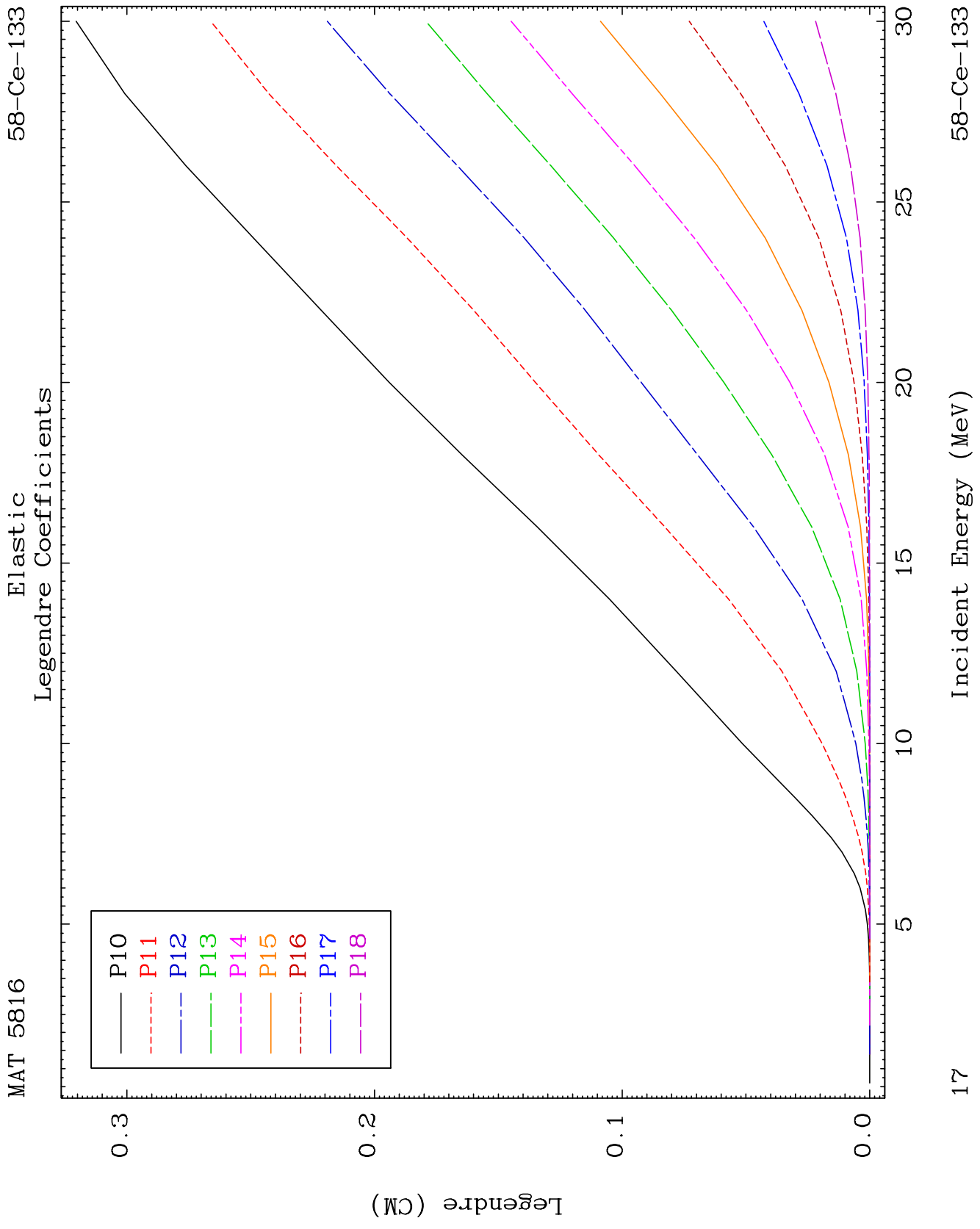
58-Ce-133



16

Incident Energy (MeV)

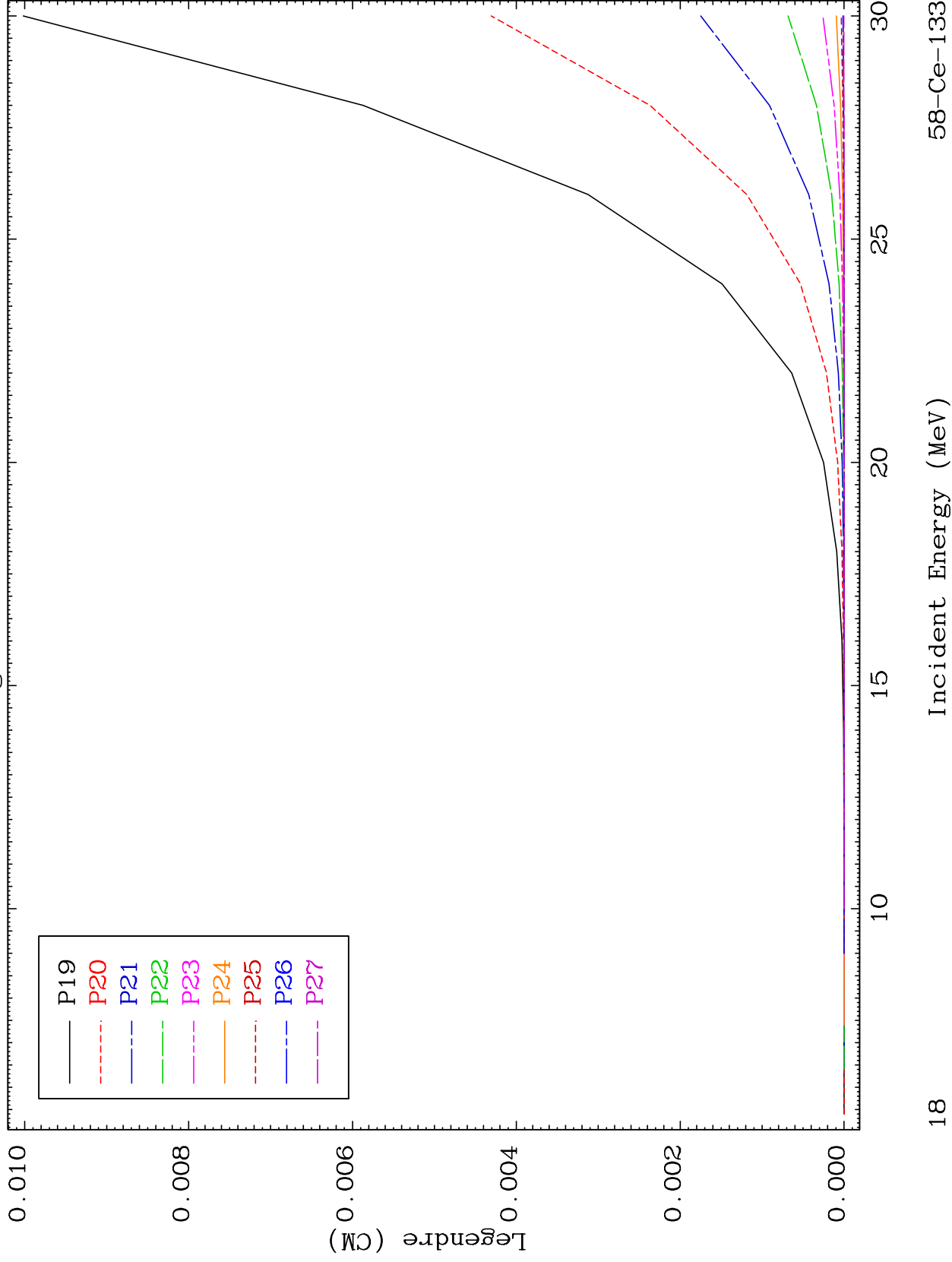
58-Ce-133



MAT 5816

Elastic Legendre Coefficients

58-Ce-133



18

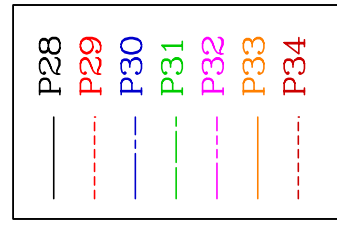
Incident Energy (MeV)

58-Ce-133

MAT 5816

Elastic
Legendre Coefficients

58-Ce-133



$\times 10^{-7}$

Legendre (CM)

8

6

4

2

0

15

20

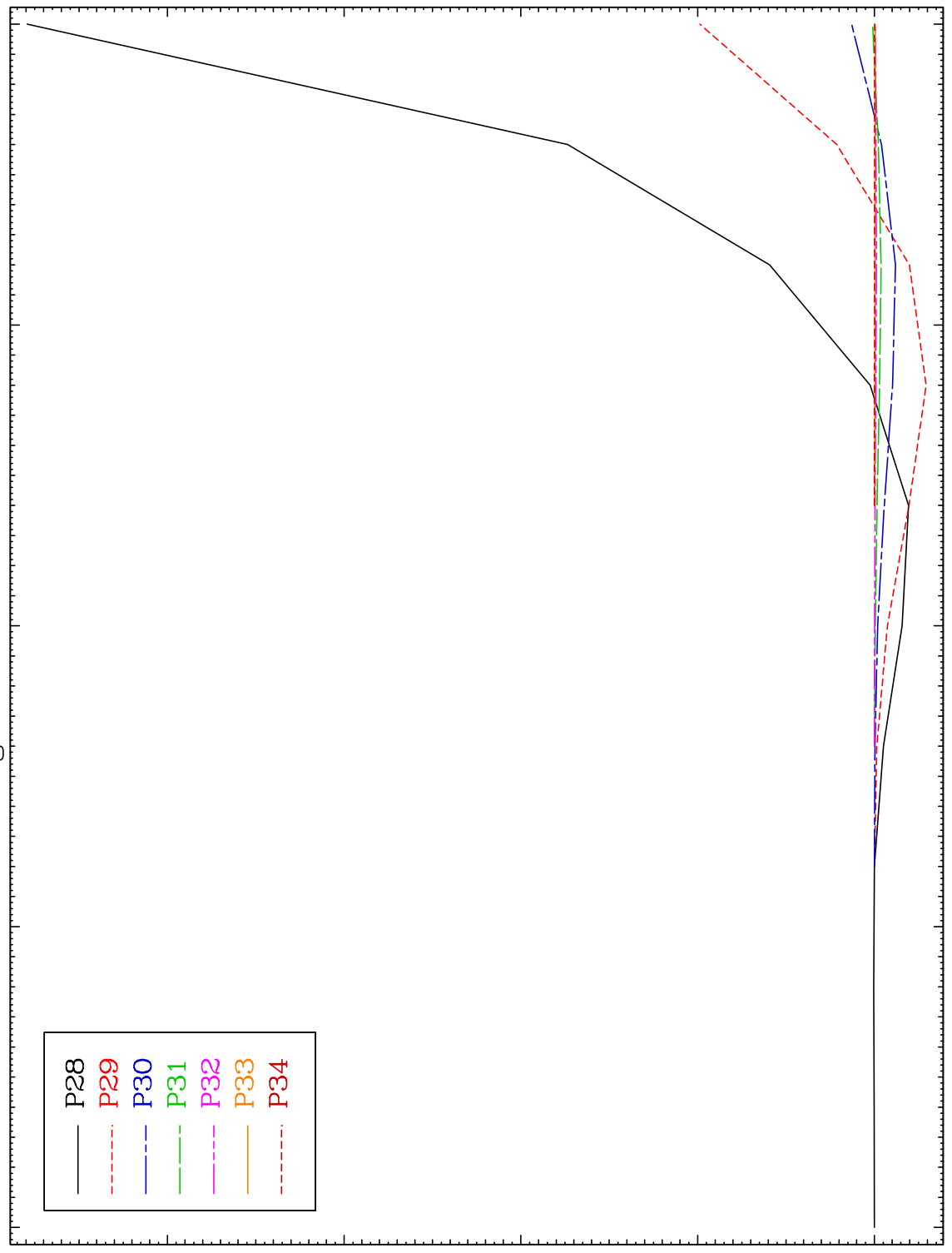
25

30

19

Incident Energy (MeV)

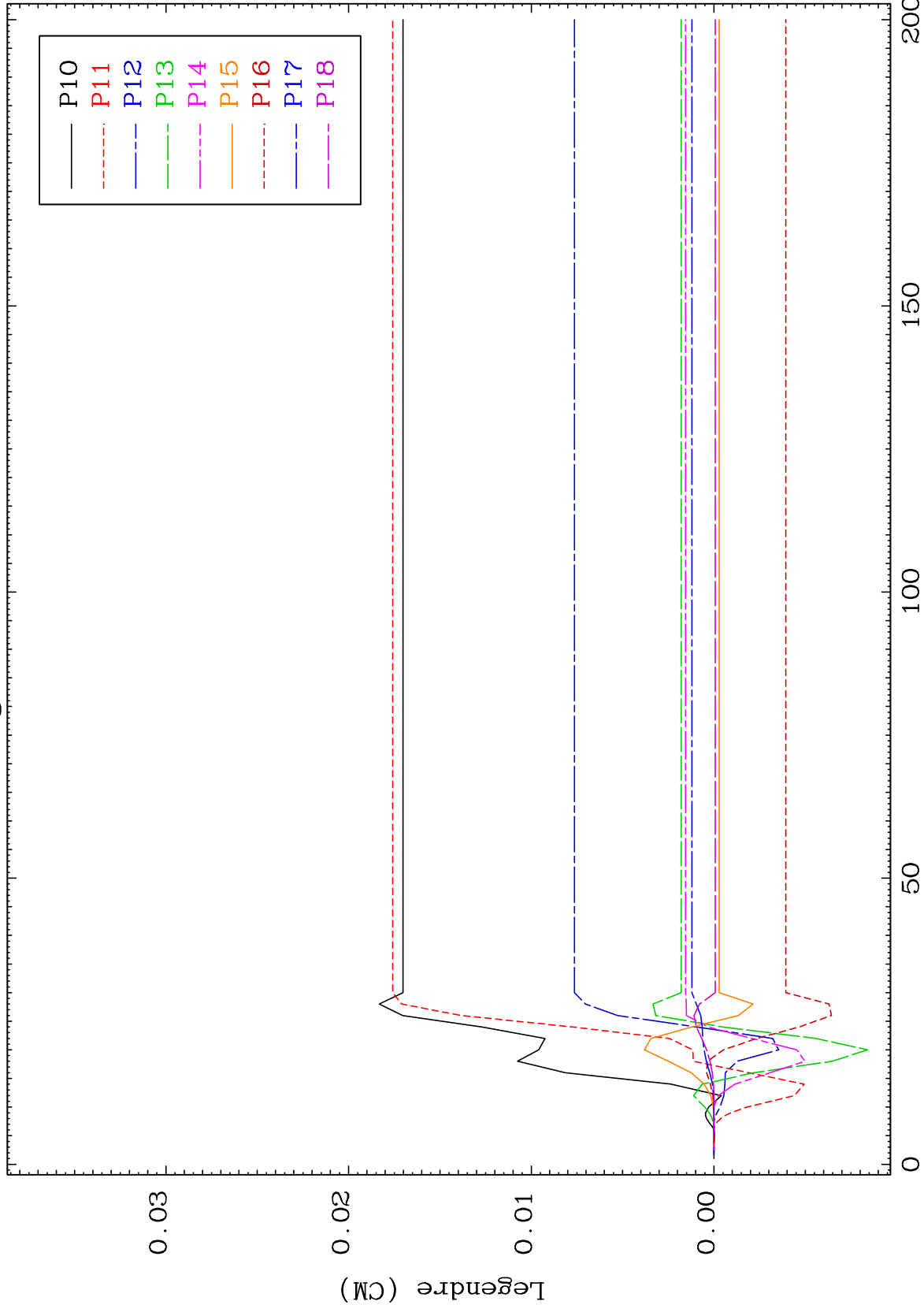
58-Ce-133



MAT 5816

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

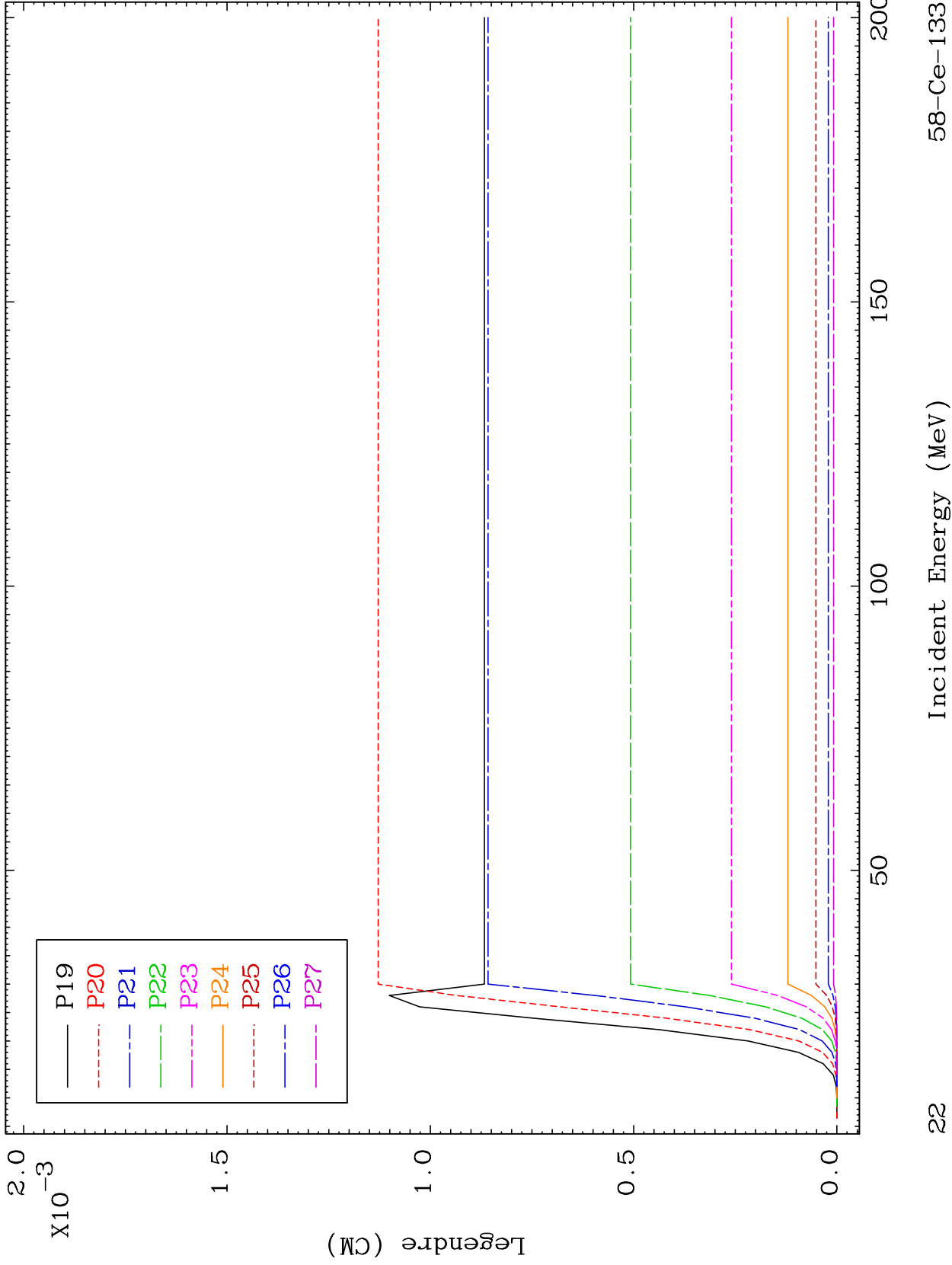
58-Ce-133



21

Incident Energy (MeV)

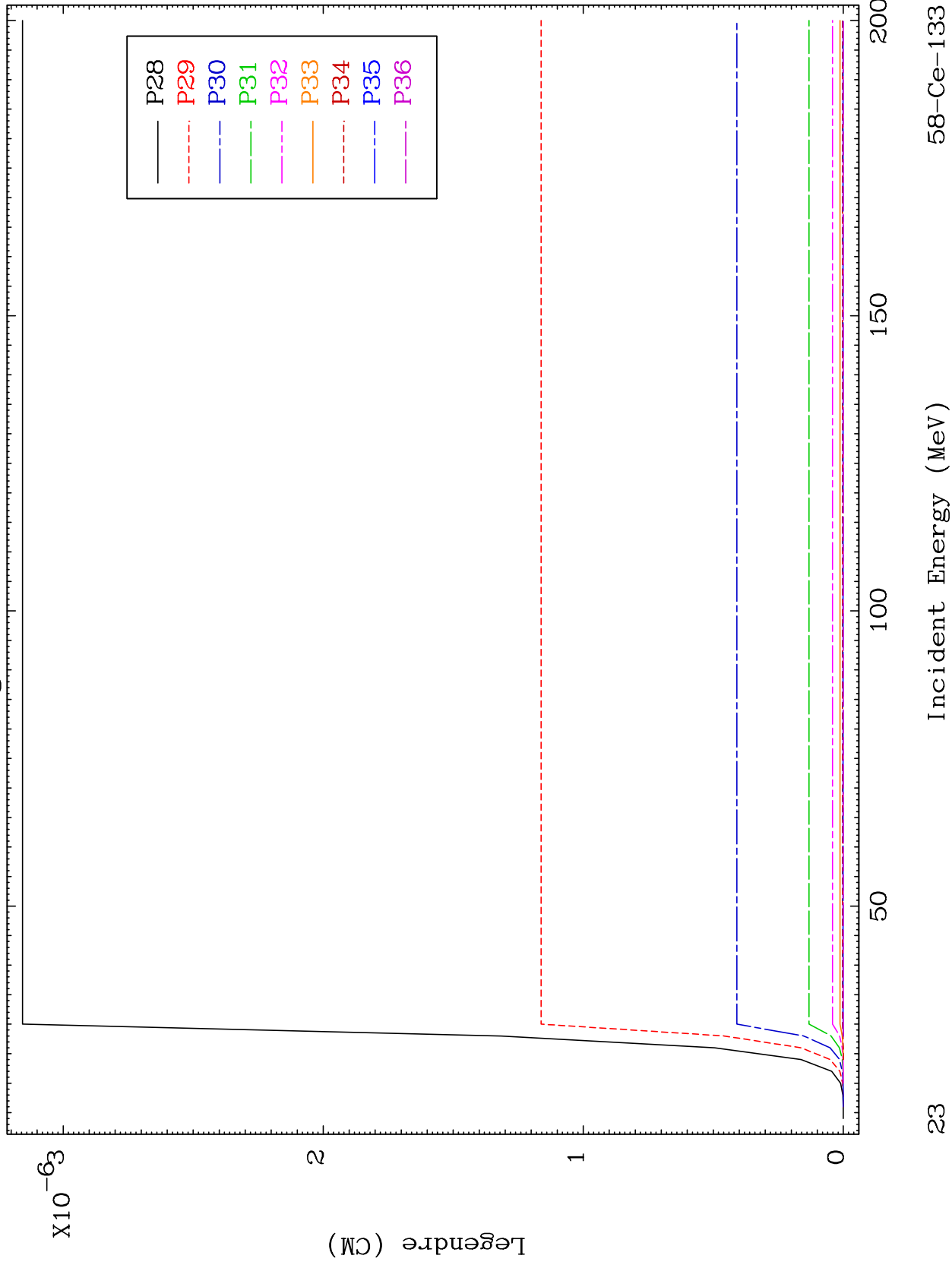
58-Ce-133



MAT 5816

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

58-Ce-133



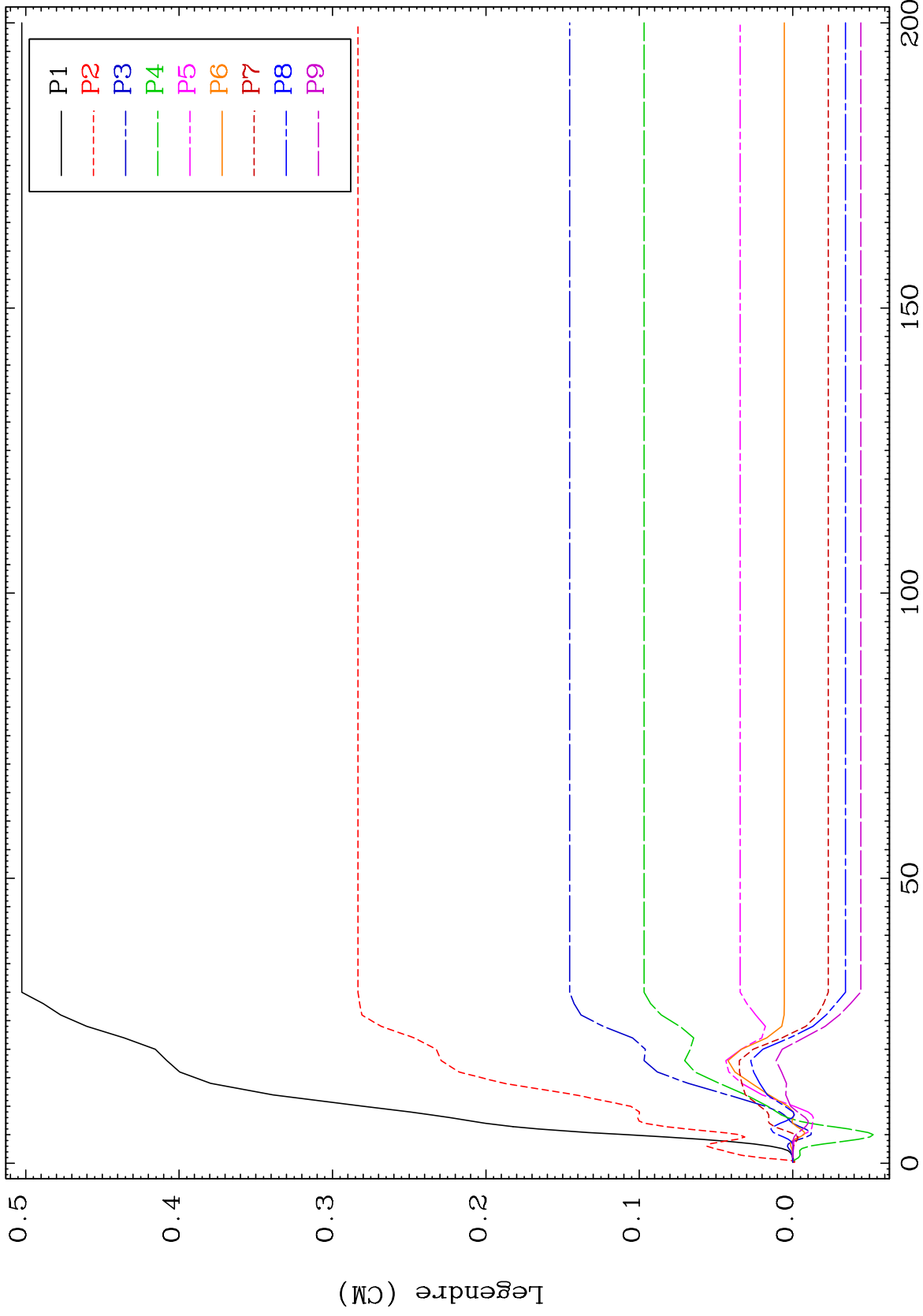
23

58-Ce-133

MAT 5816

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

58-Ce-133



58-Ce-133

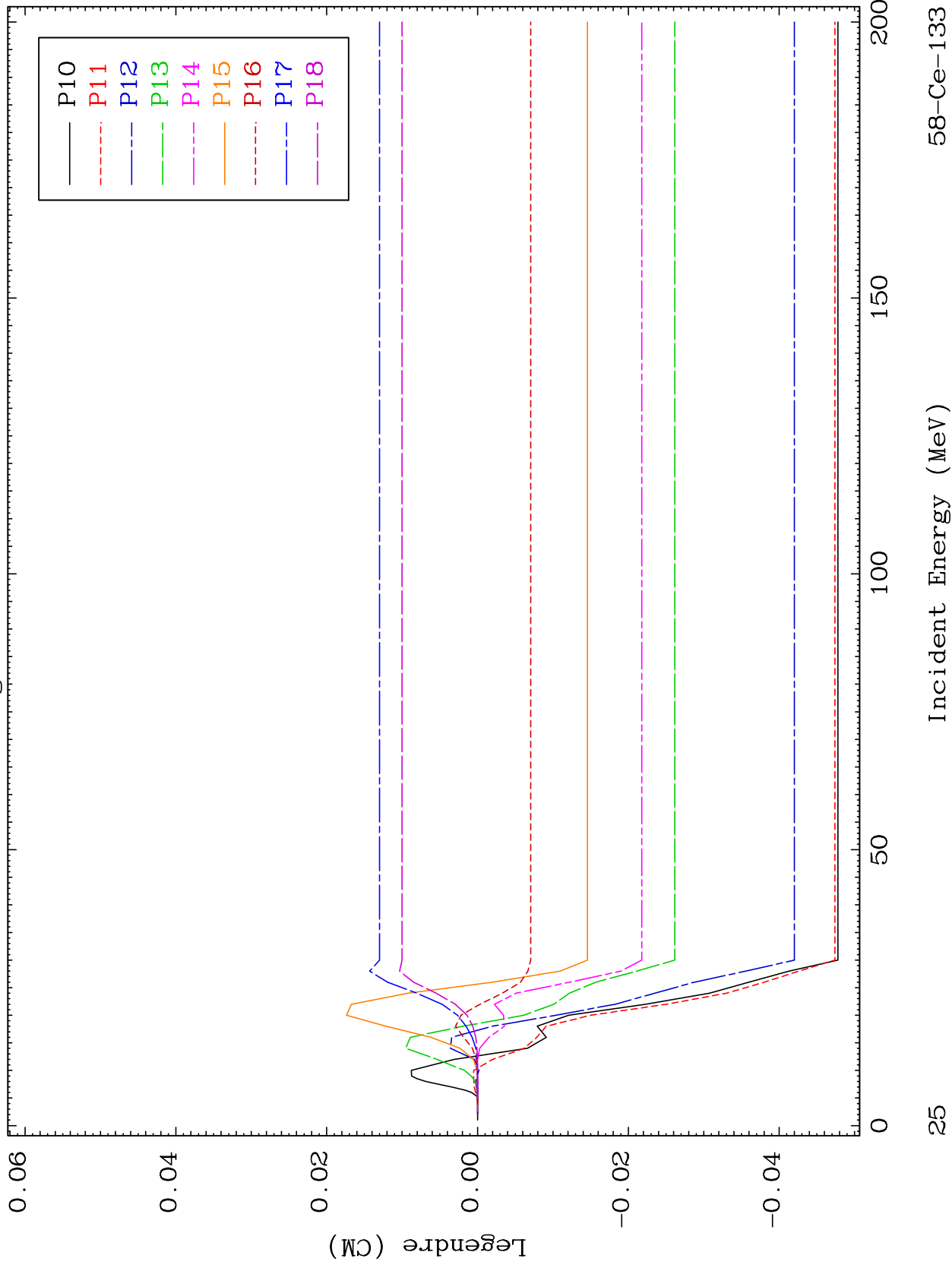
Incident Energy (MeV)

24

MAT 5816

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

58-Ce-133



58-Ce-133

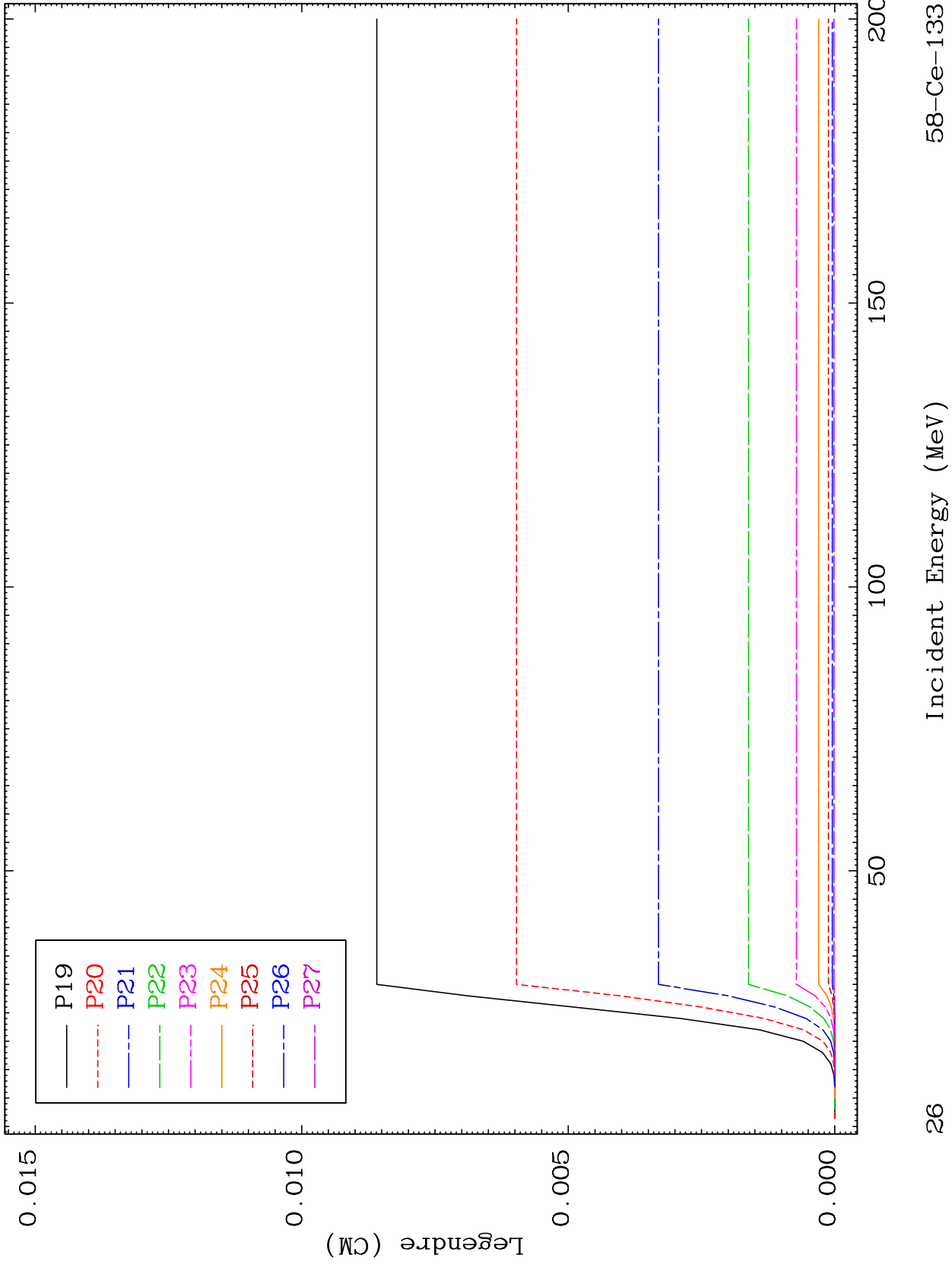
Incident Energy (MeV)

25

MAT 5816

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

58-Ce-133



26

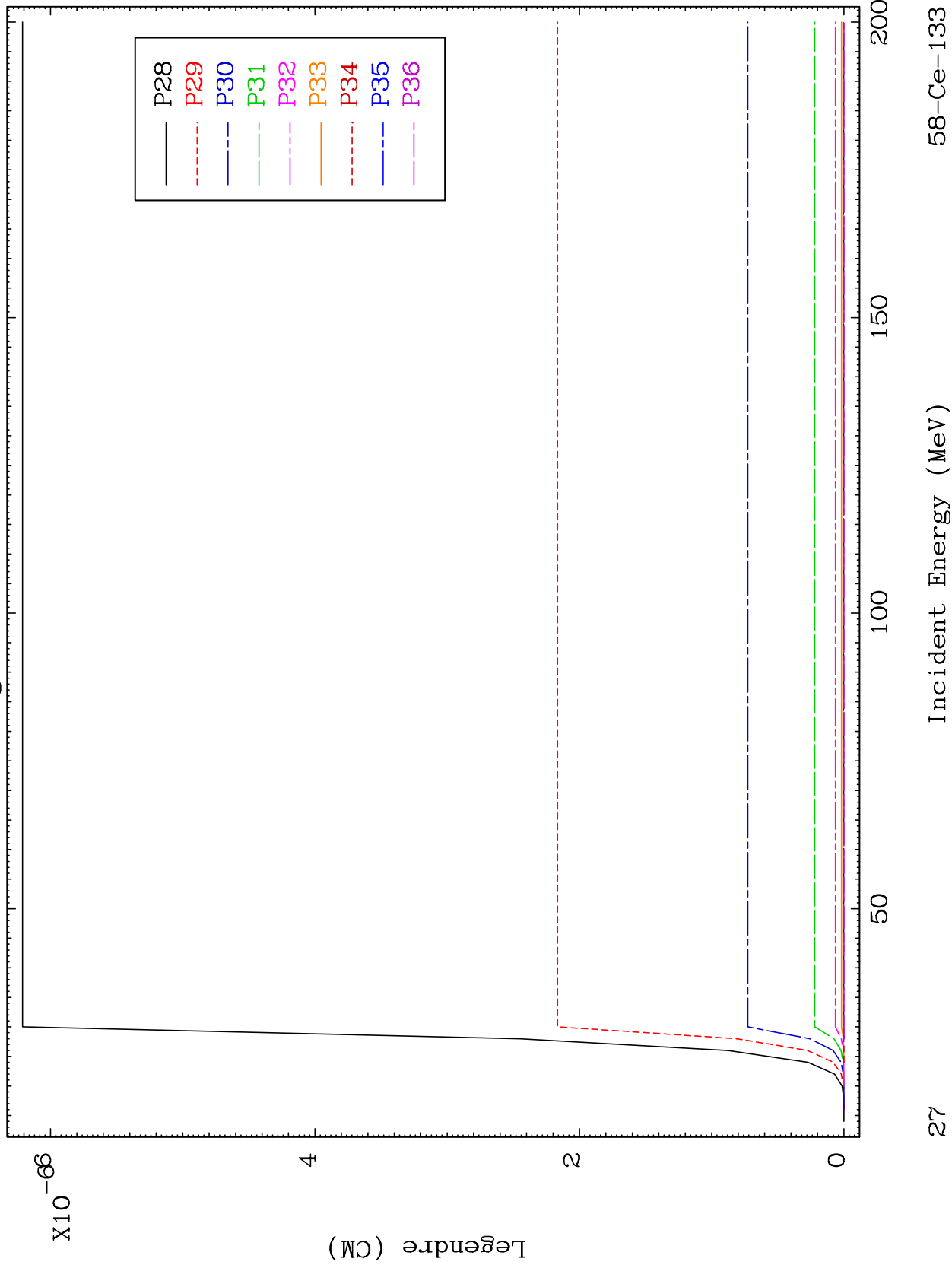
Incident Energy (MeV)

58-Ce-133

MAT 5816

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

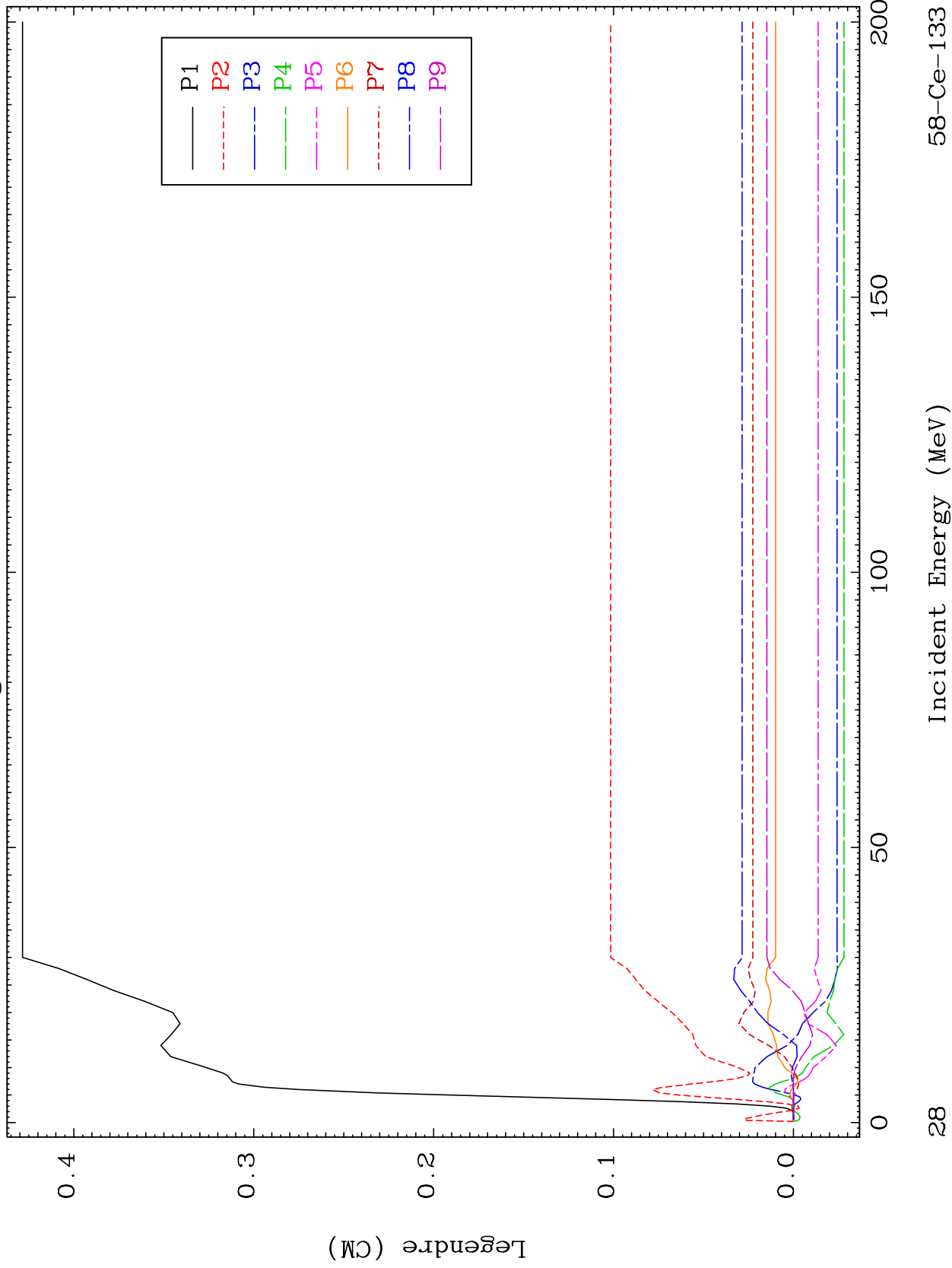
58-Ce-133



MAT 5816

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

58-Ce-133



58-Ce-133

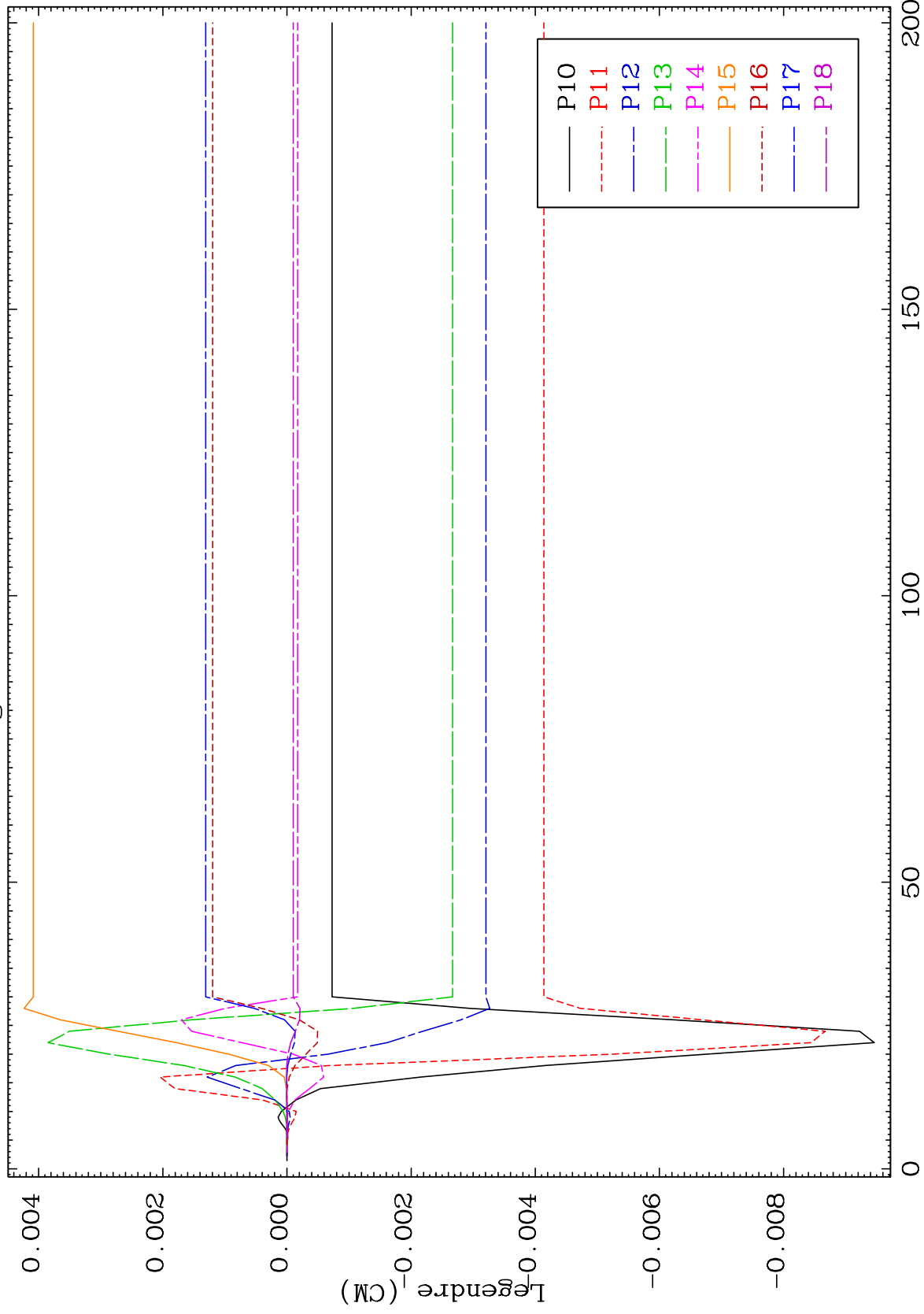
Incident Energy (MeV)

28

MAT 5816

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

58-Ce-133



29

Incident Energy (MeV)

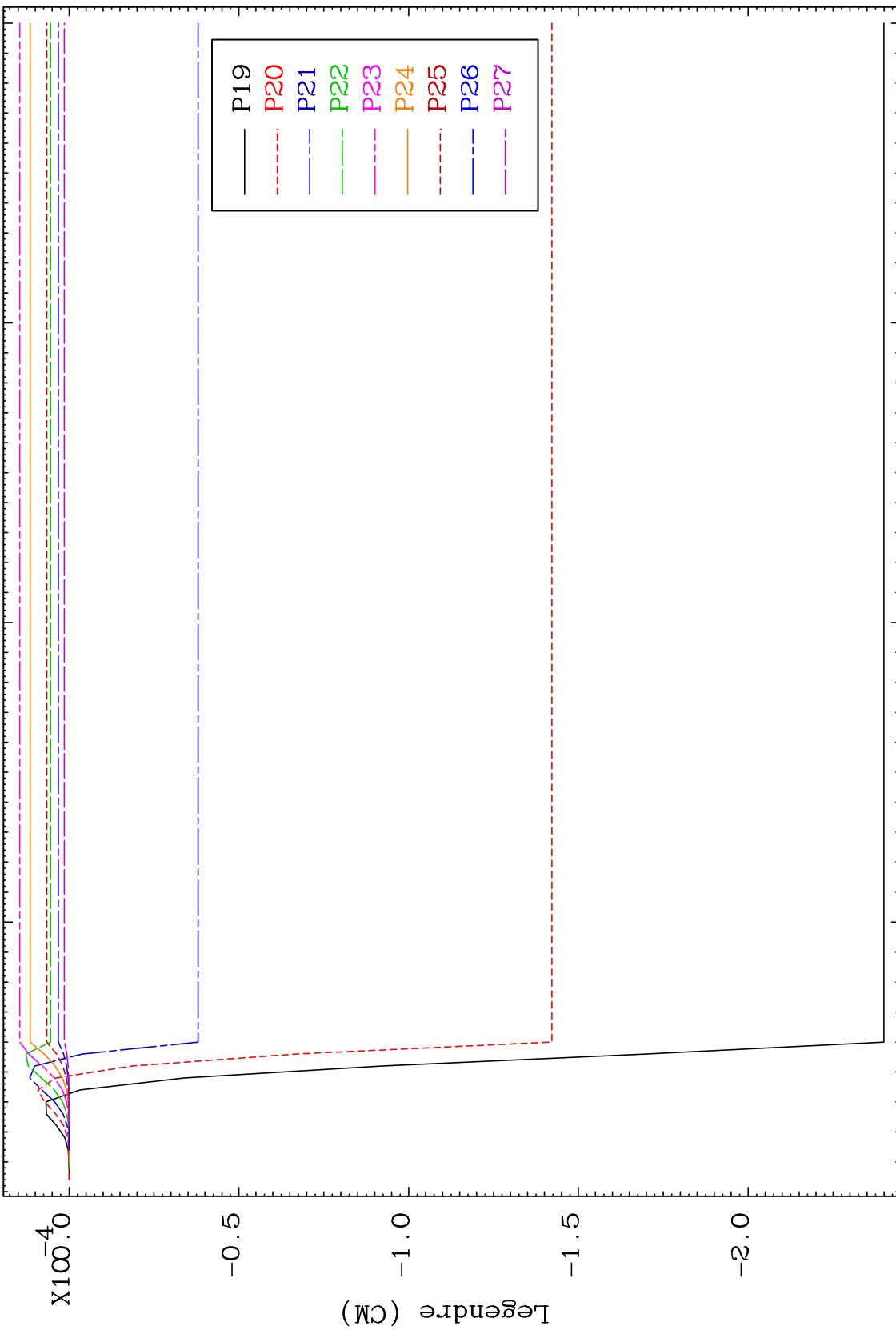
58-Ce-133

MAT 5816

MT= 53 (n,n') Level

58-Ce-133

Legendre Coefficients



58-Ce-133

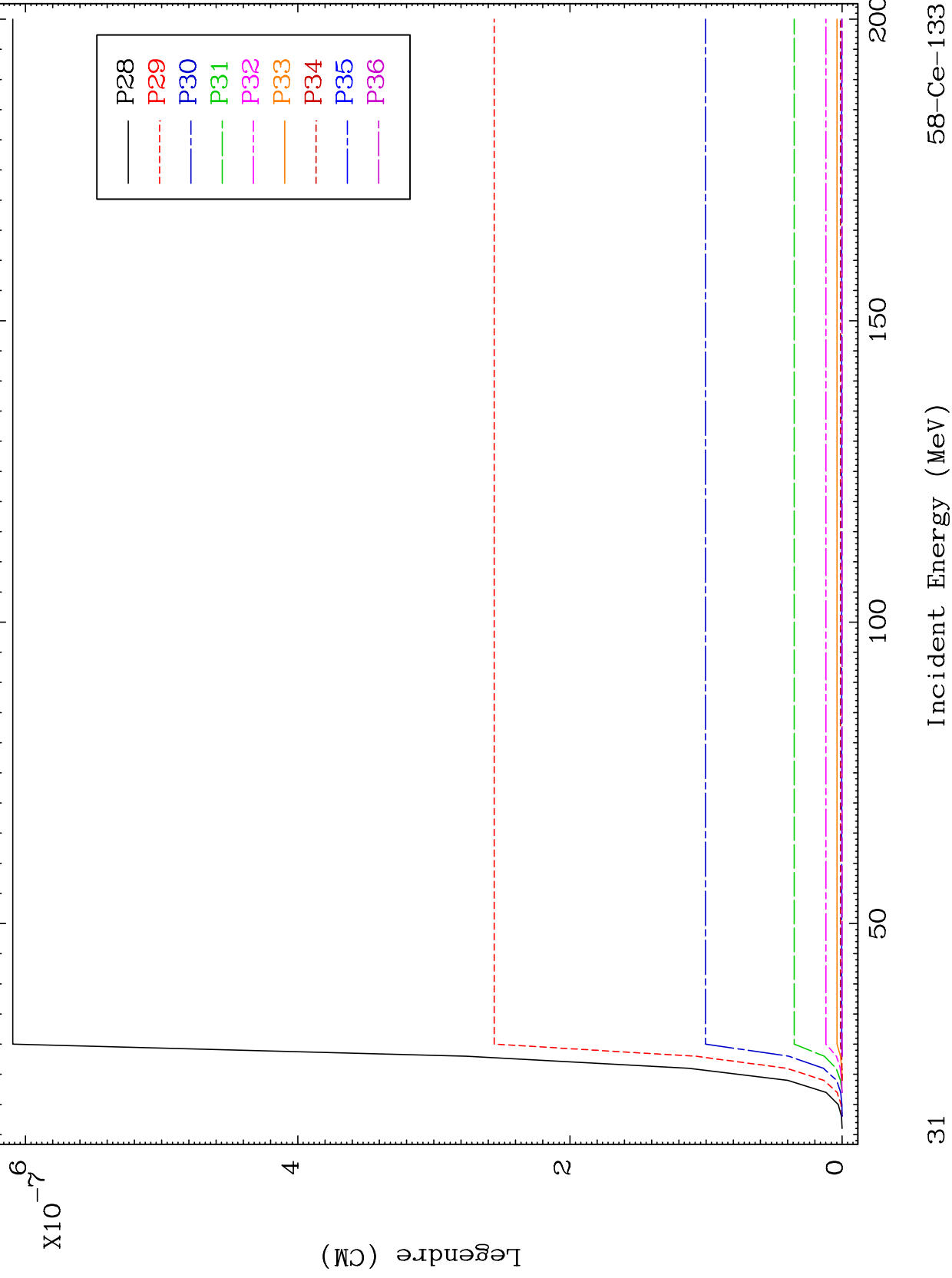
Incident Energy (MeV)

30

MAT 5816

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

58-Ce-133

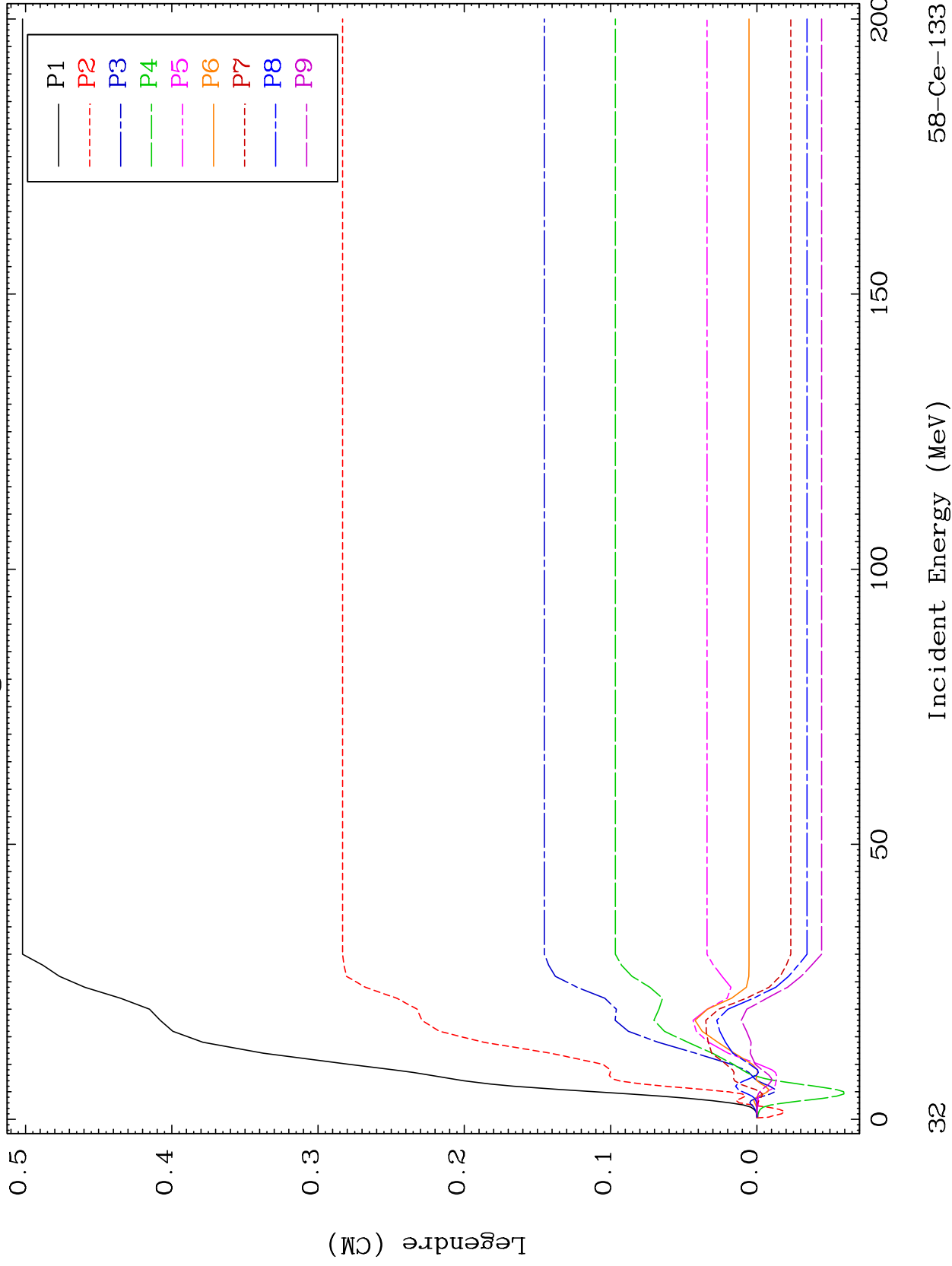


MAT 5816

MT= 54 (n,n') Level

58-Ce-133

Legendre Coefficients

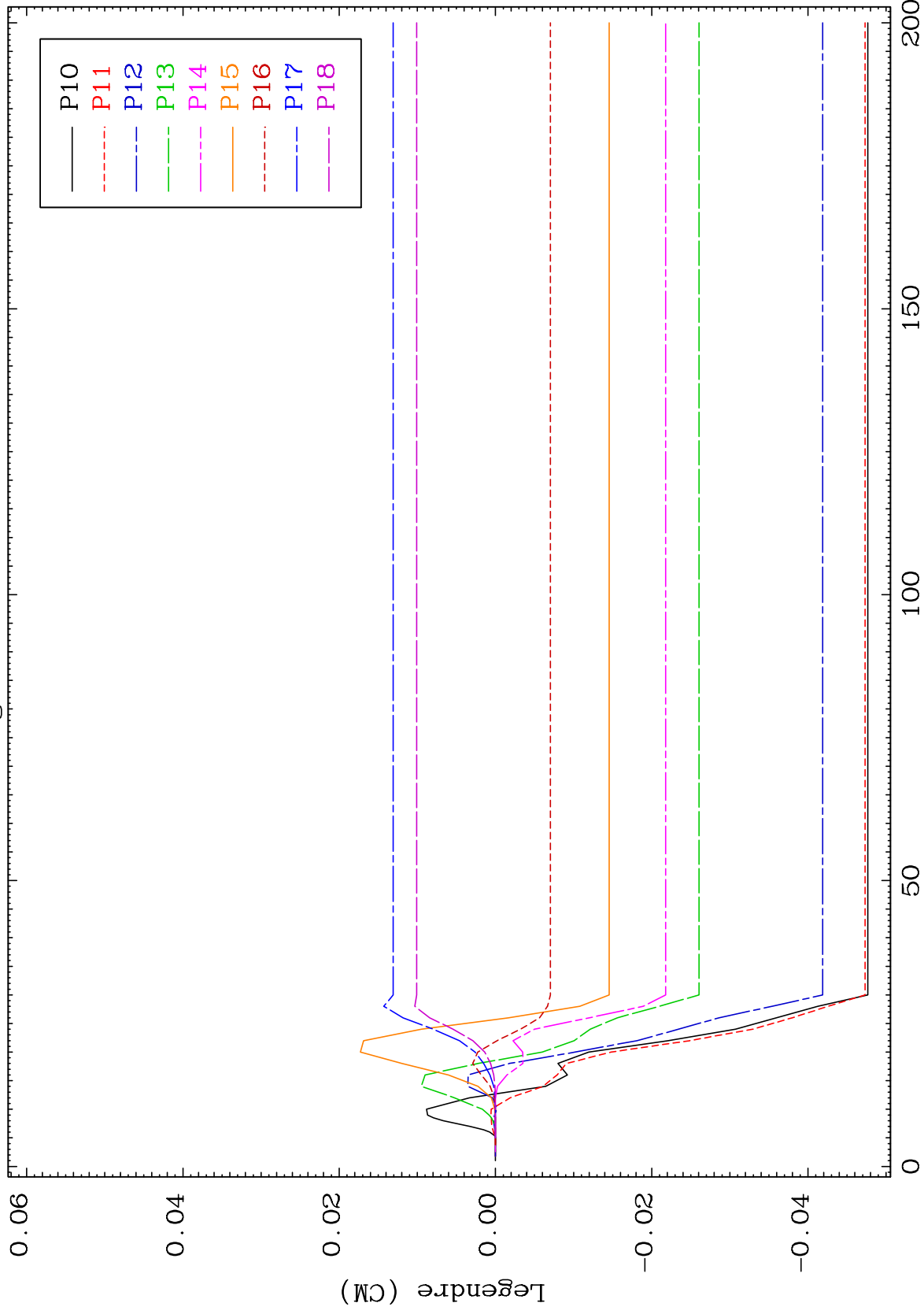


32

MAT 5816

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

58-Ce-133



33

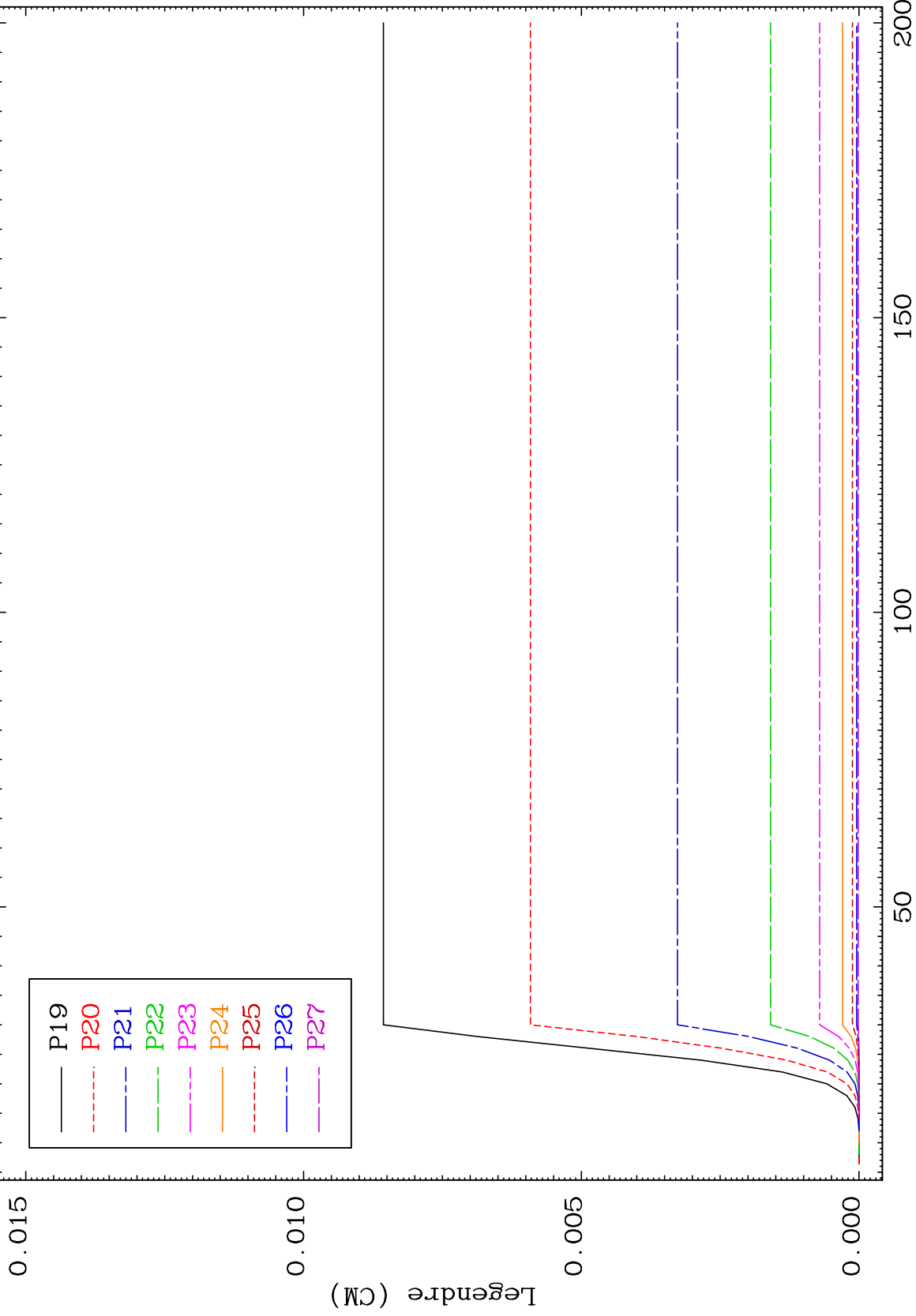
Incident Energy (MeV)

58-Ce-133

MAT 5816

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

58-Ce-133



34

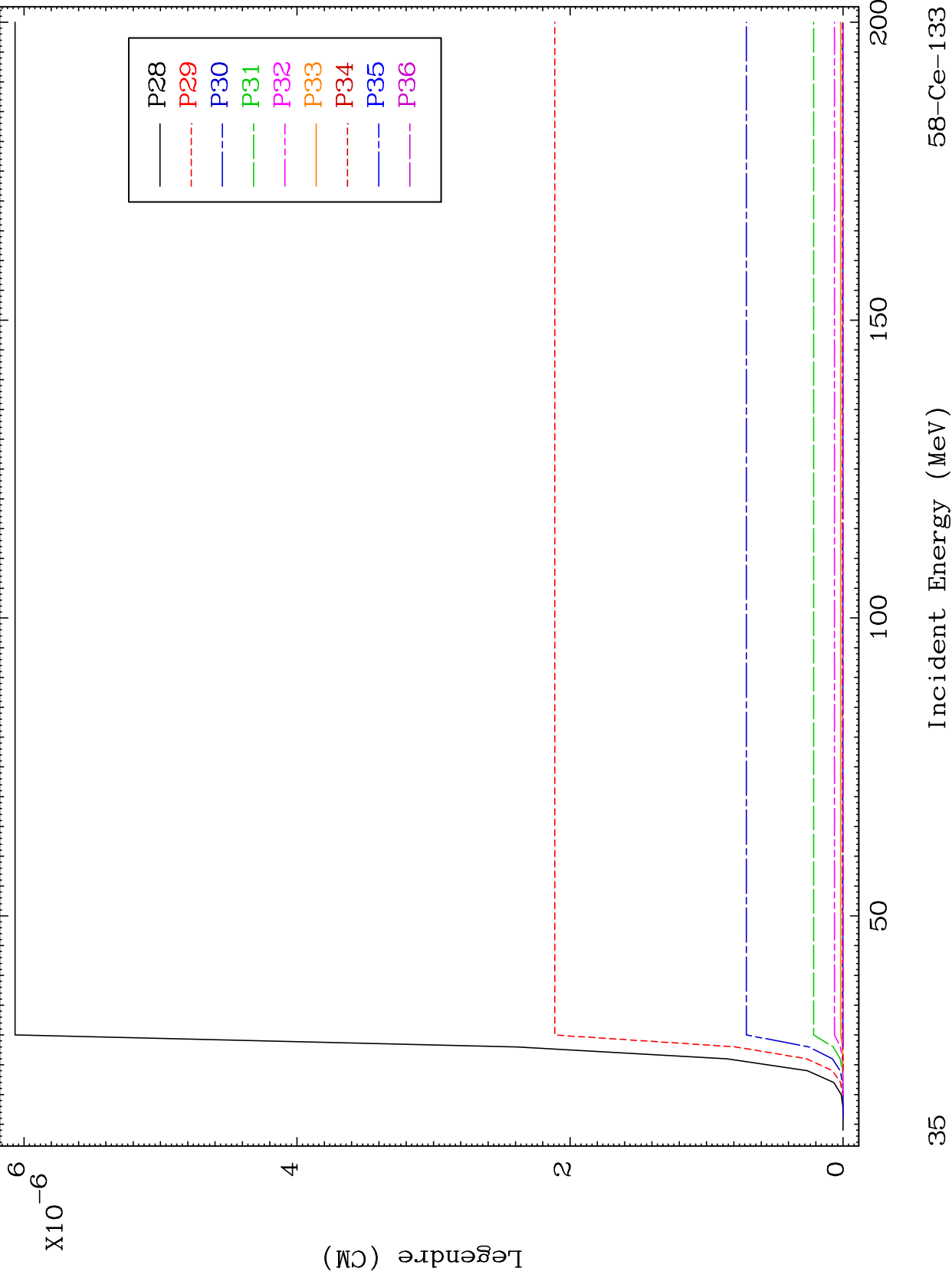
Incident Energy (MeV)

58-Ce-133

MAT 5816

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

58-Ce-133



35

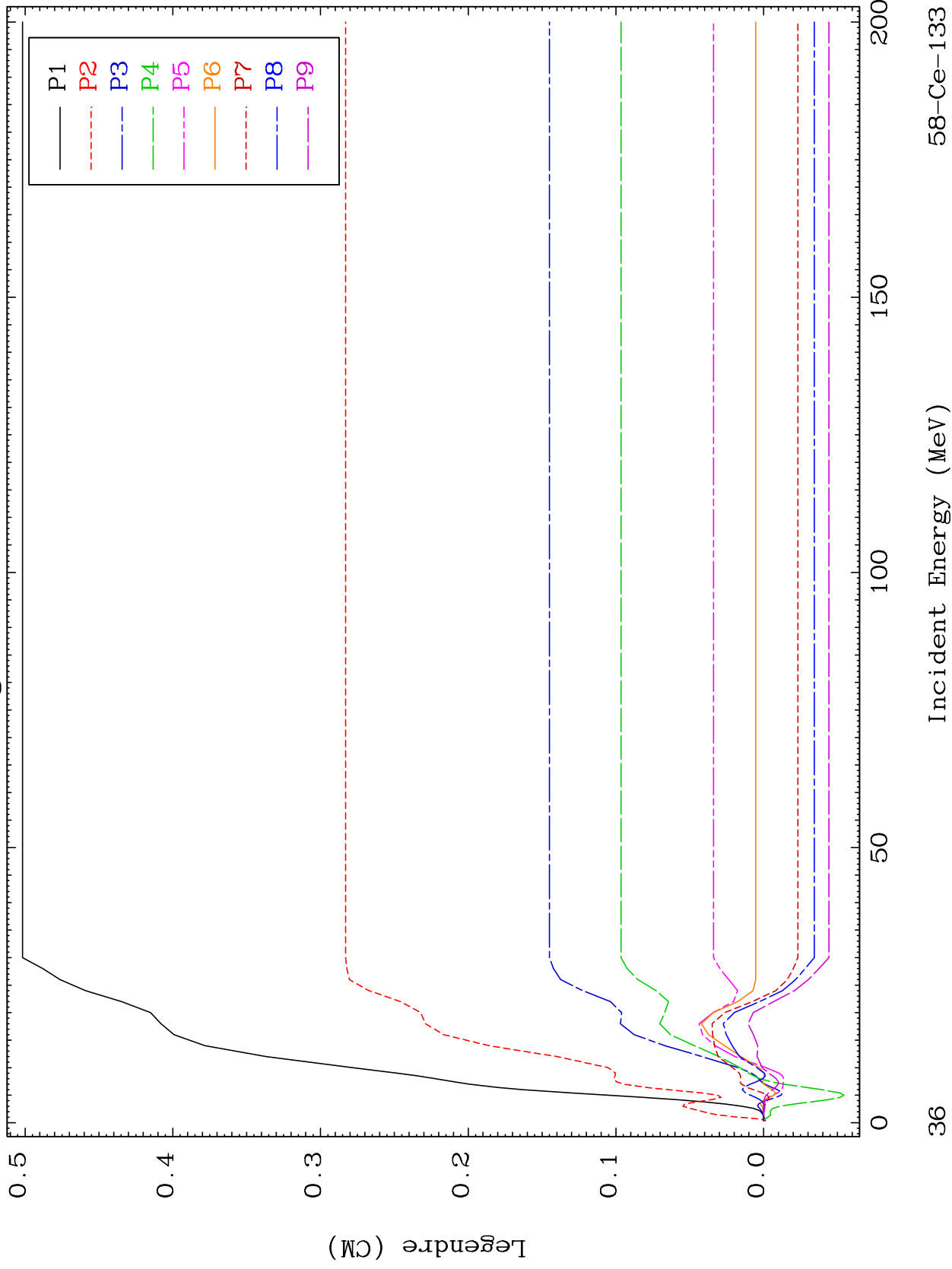
Incident Energy (MeV)

58-Ce-133

MAT 5816

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

58-Ce-133



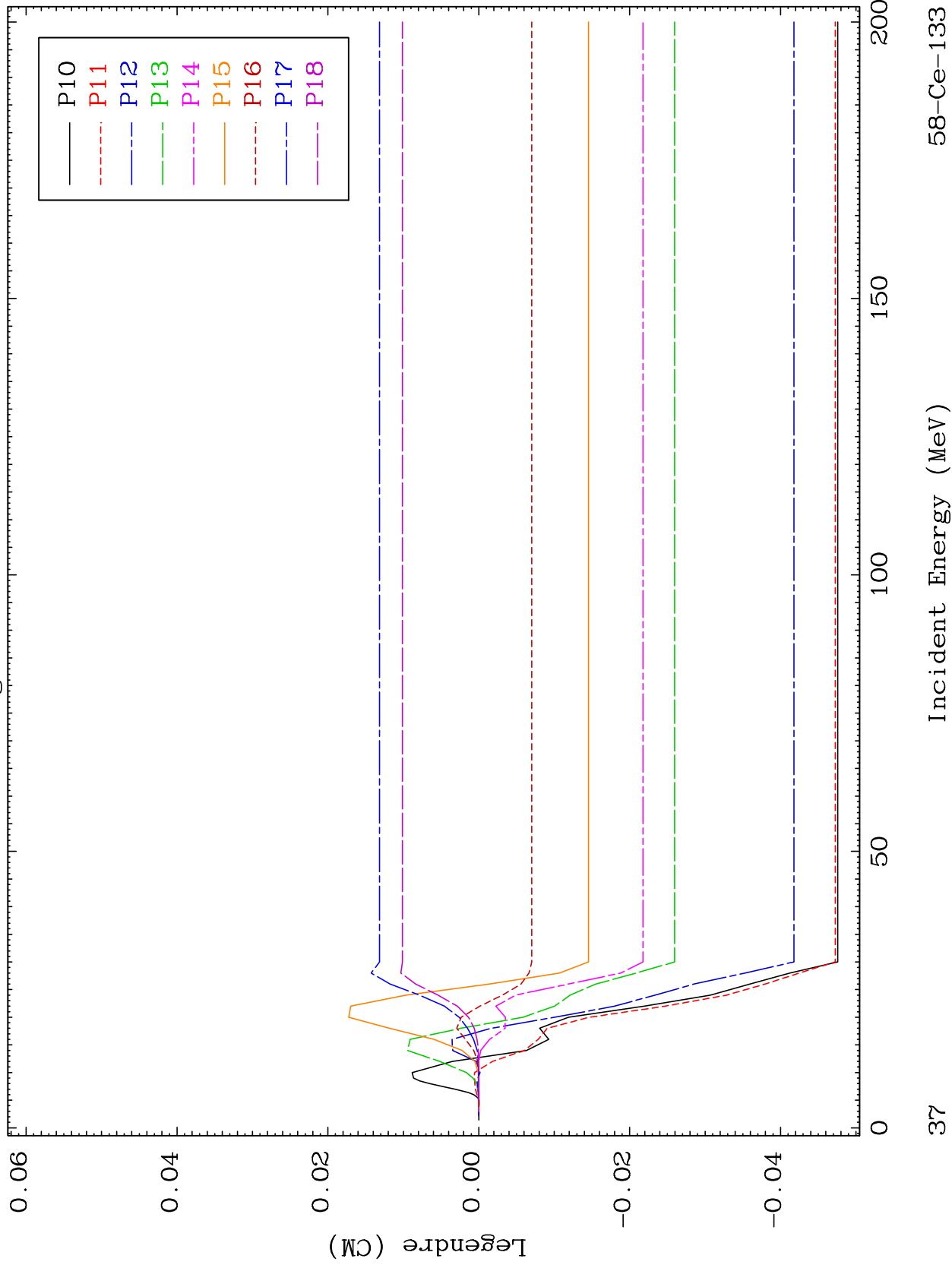
36

58-Ce-133

MAT 5816

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

58-Ce-133



37

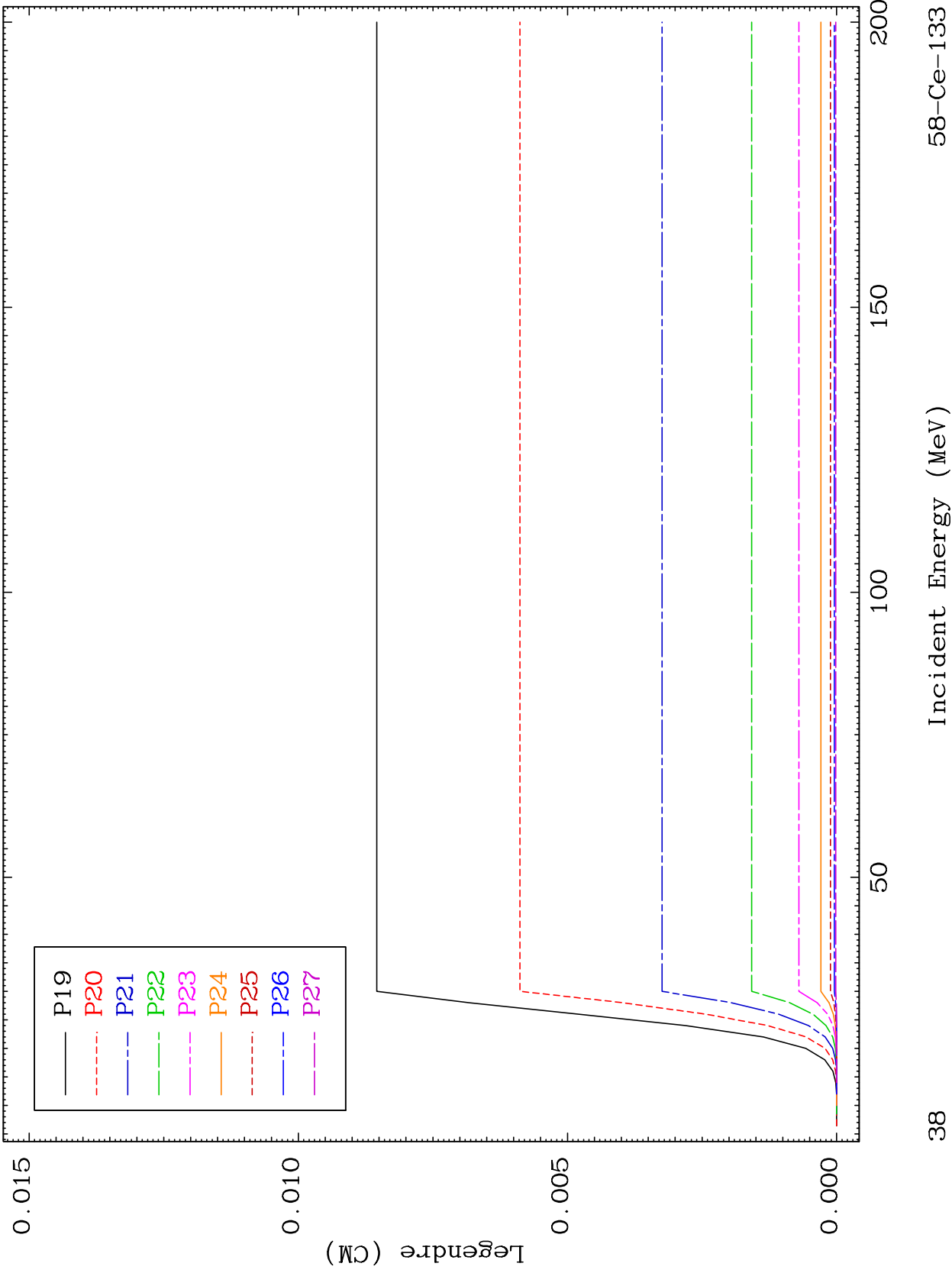
Incident Energy (MeV)

58-Ce-133

MAT 5816

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

58-Ce-133



38

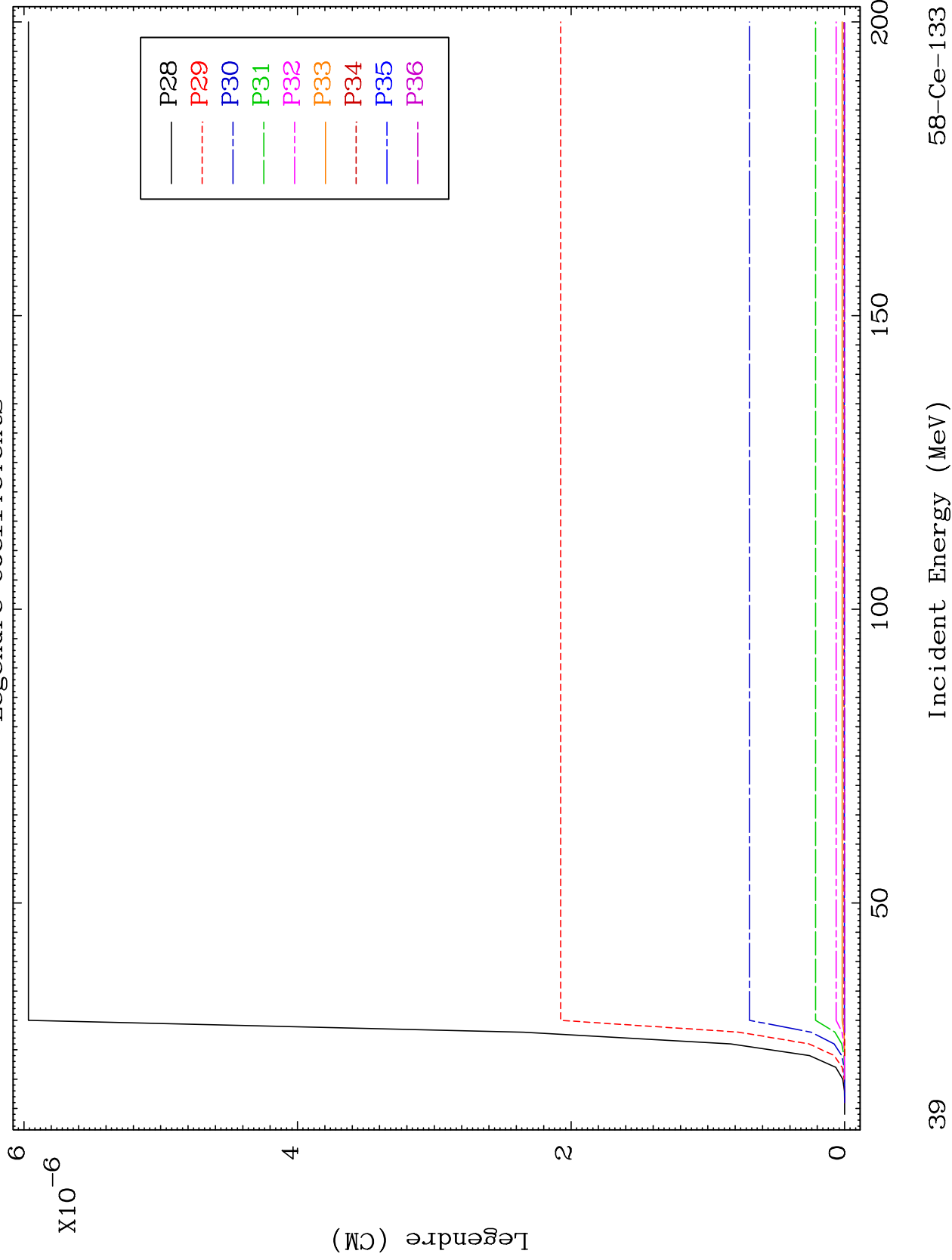
Incident Energy (MeV)

58-Ce-133

MAT 5816

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

58-Ce-133



39

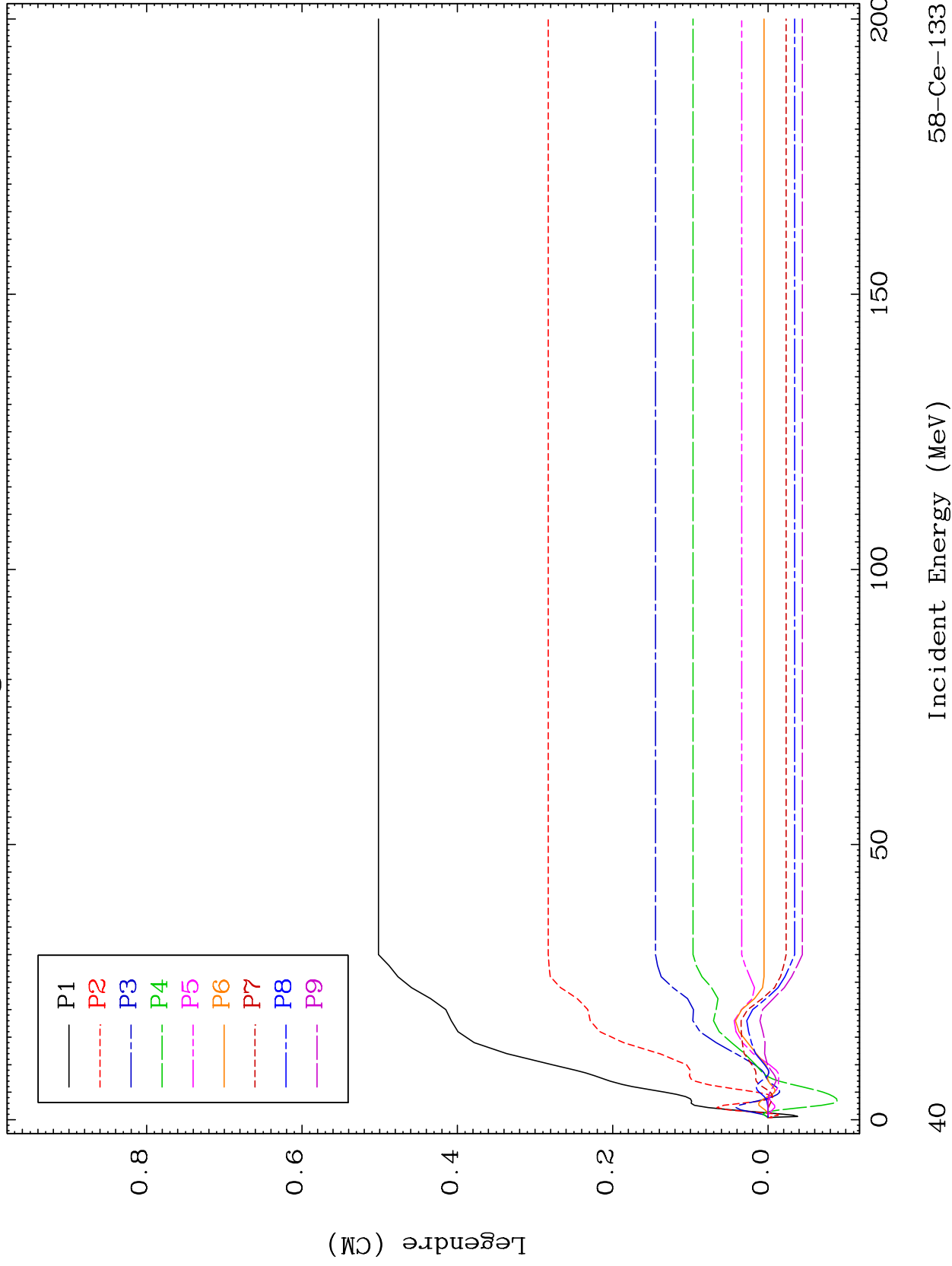
Incident Energy (MeV)

58-Ce-133

MAT 5816

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

58-Ce-133



58-Ce-133

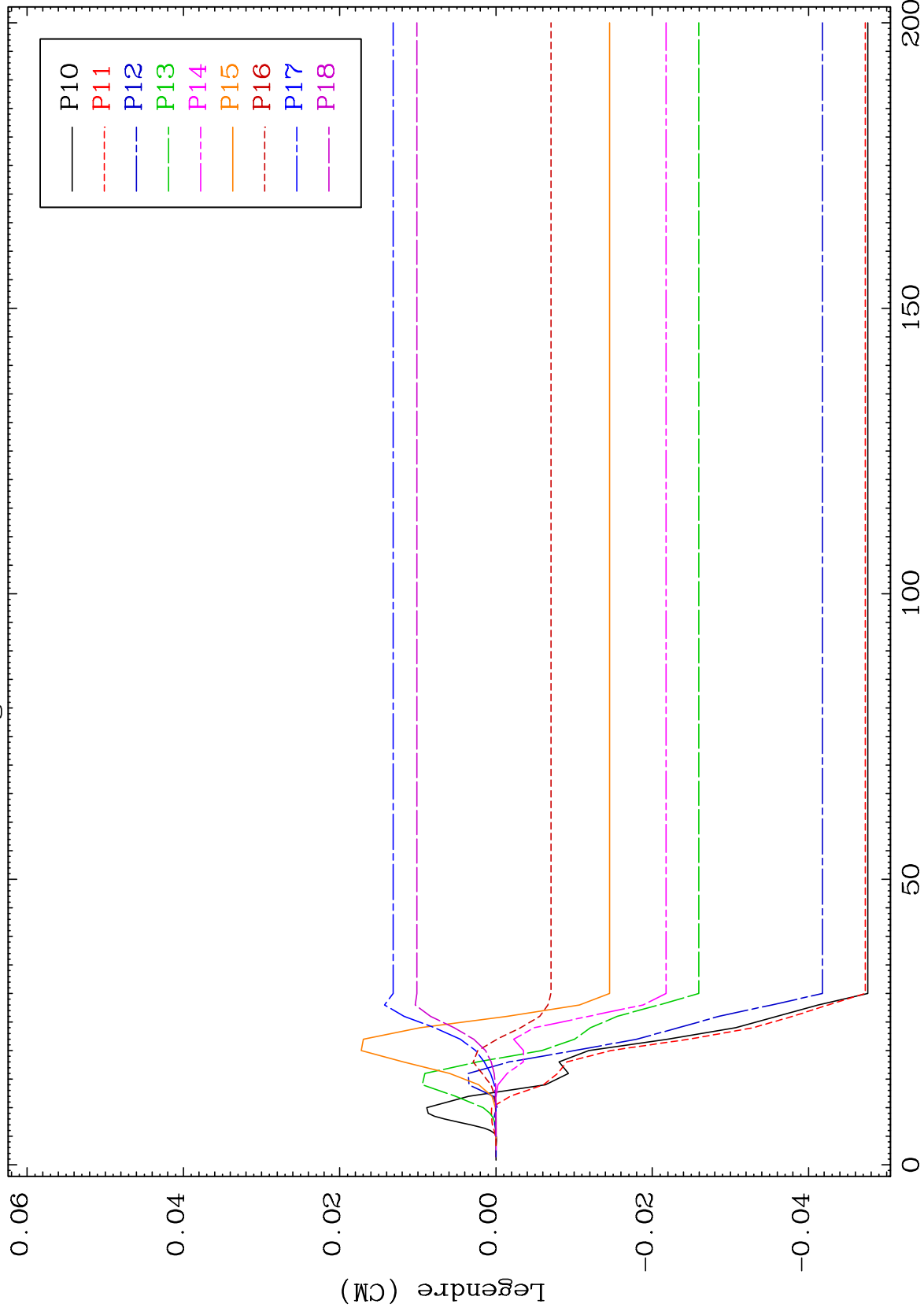
Incident Energy (MeV)

40

MAT 5816

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

58-Ce-133



41

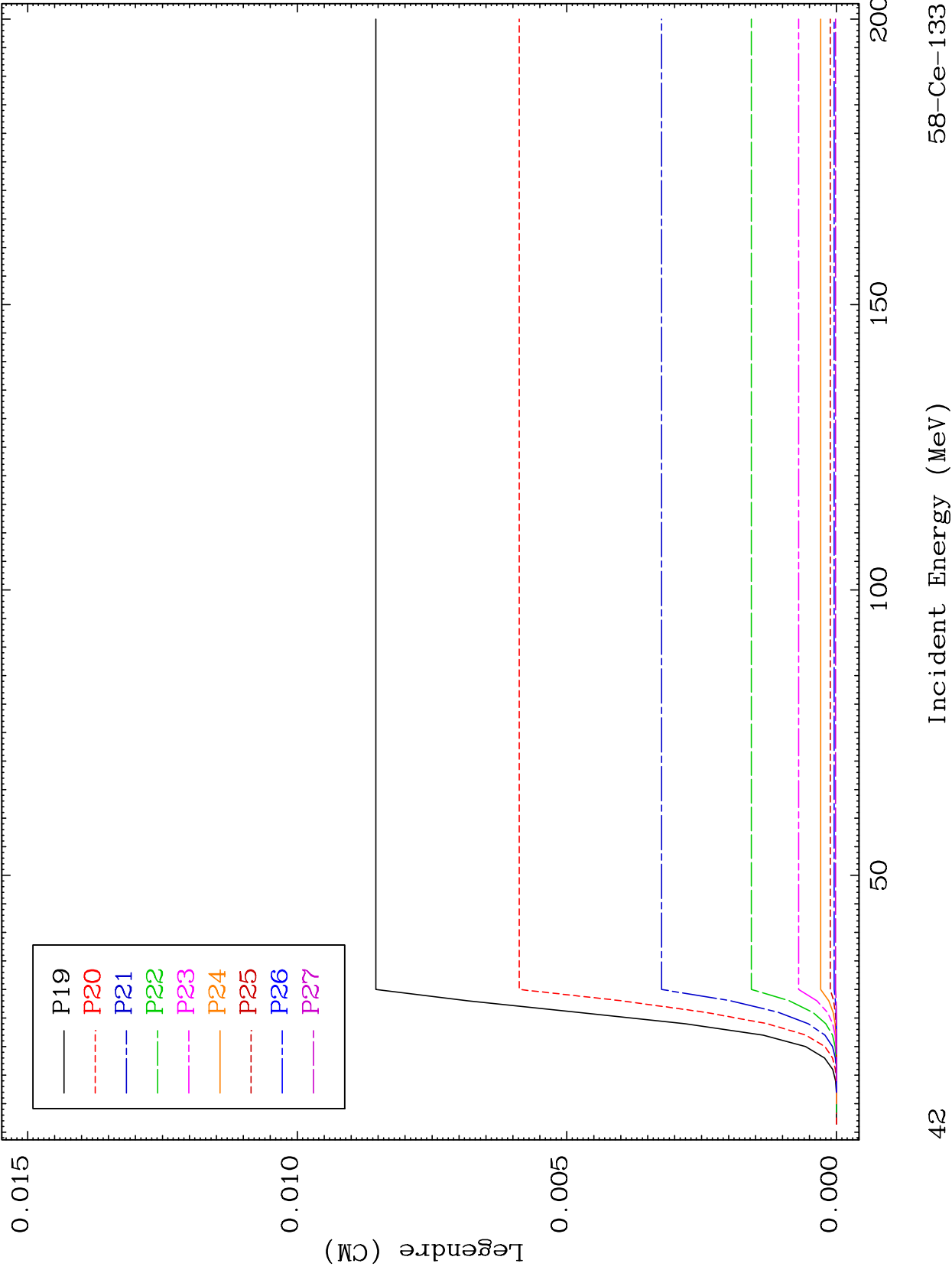
Incident Energy (MeV)

58-Ce-133

MAT 5816

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

58-Ce-133



42

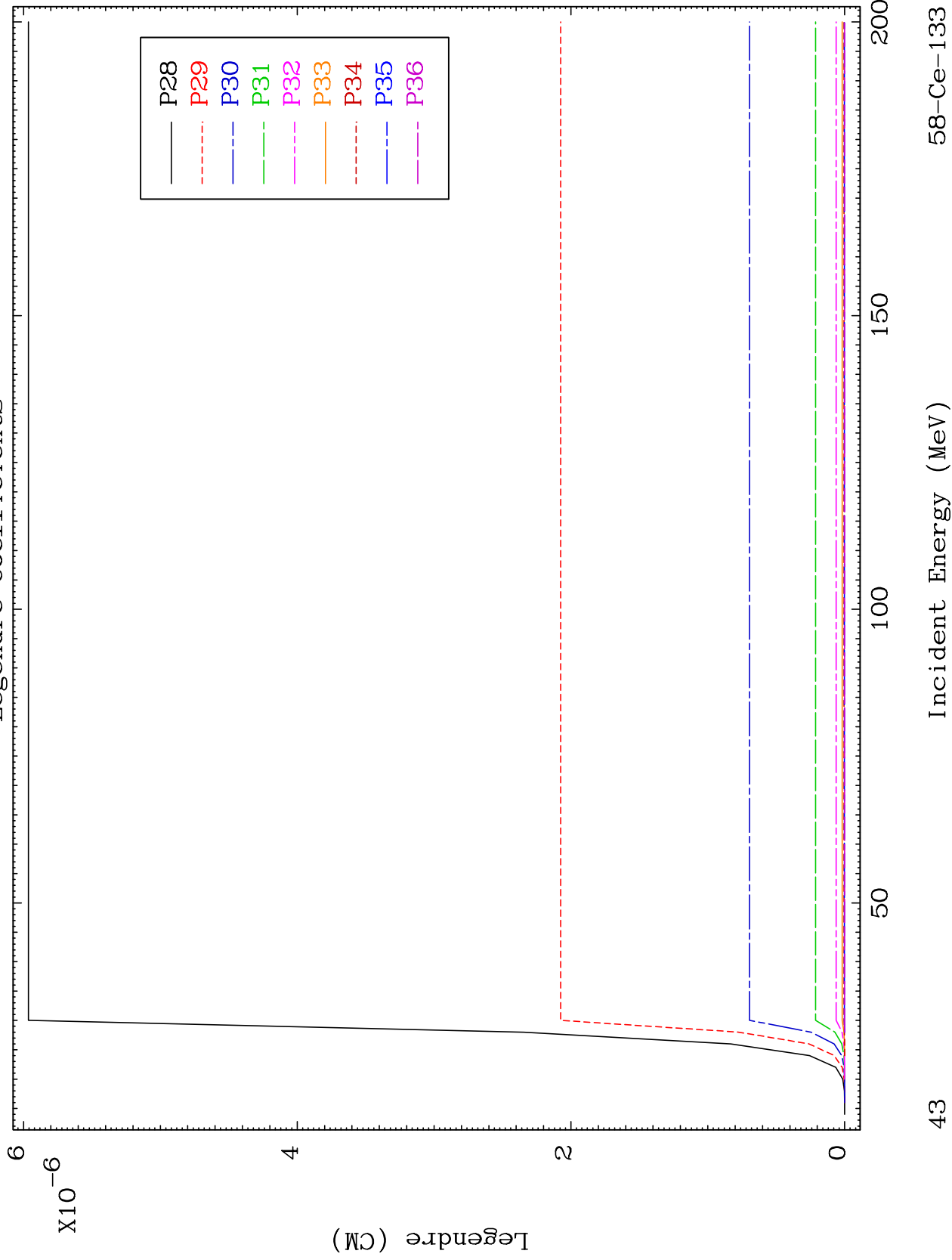
Incident Energy (MeV)

58-Ce-133

MAT 5816

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

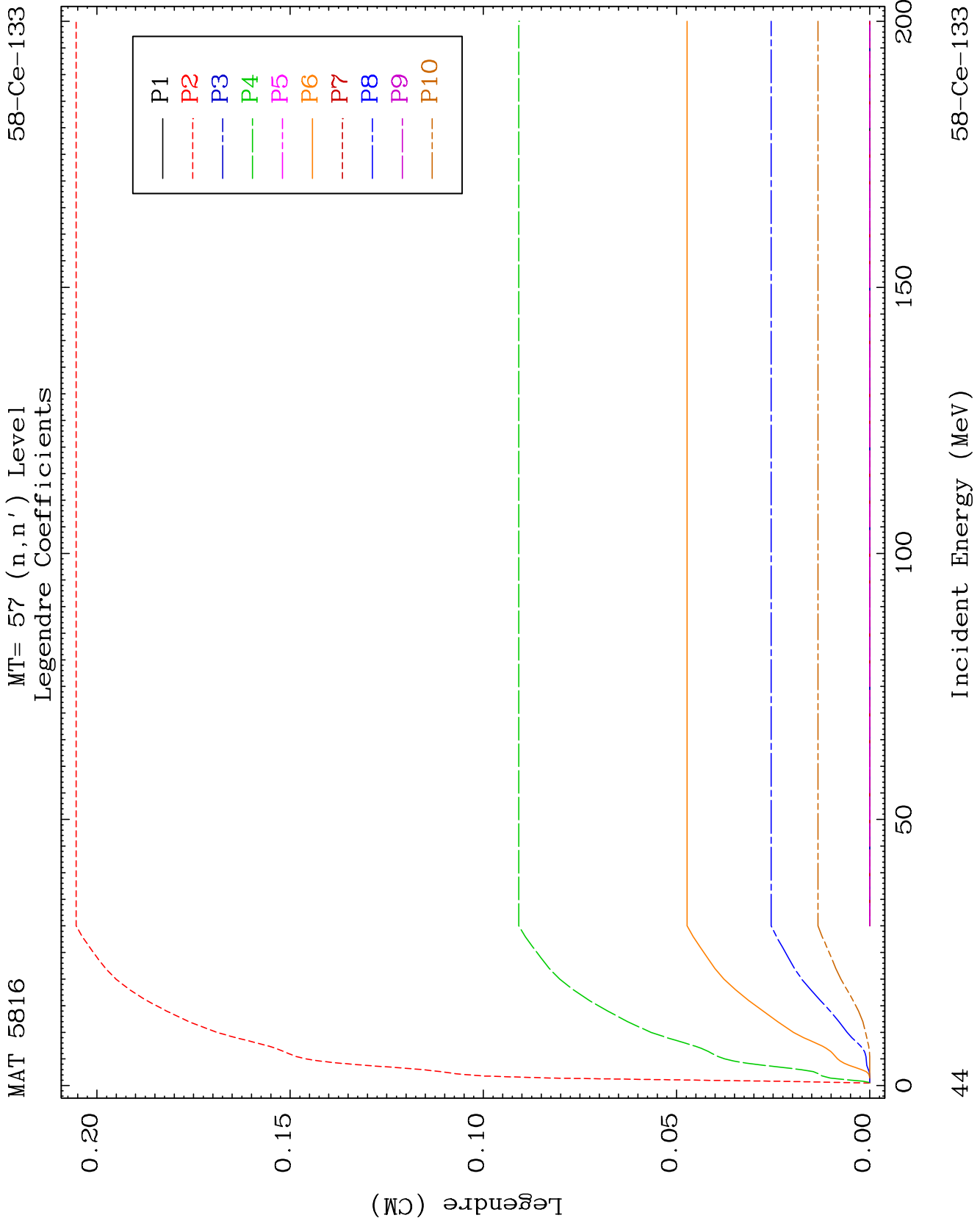
58-Ce-133



43

Incident Energy (MeV)

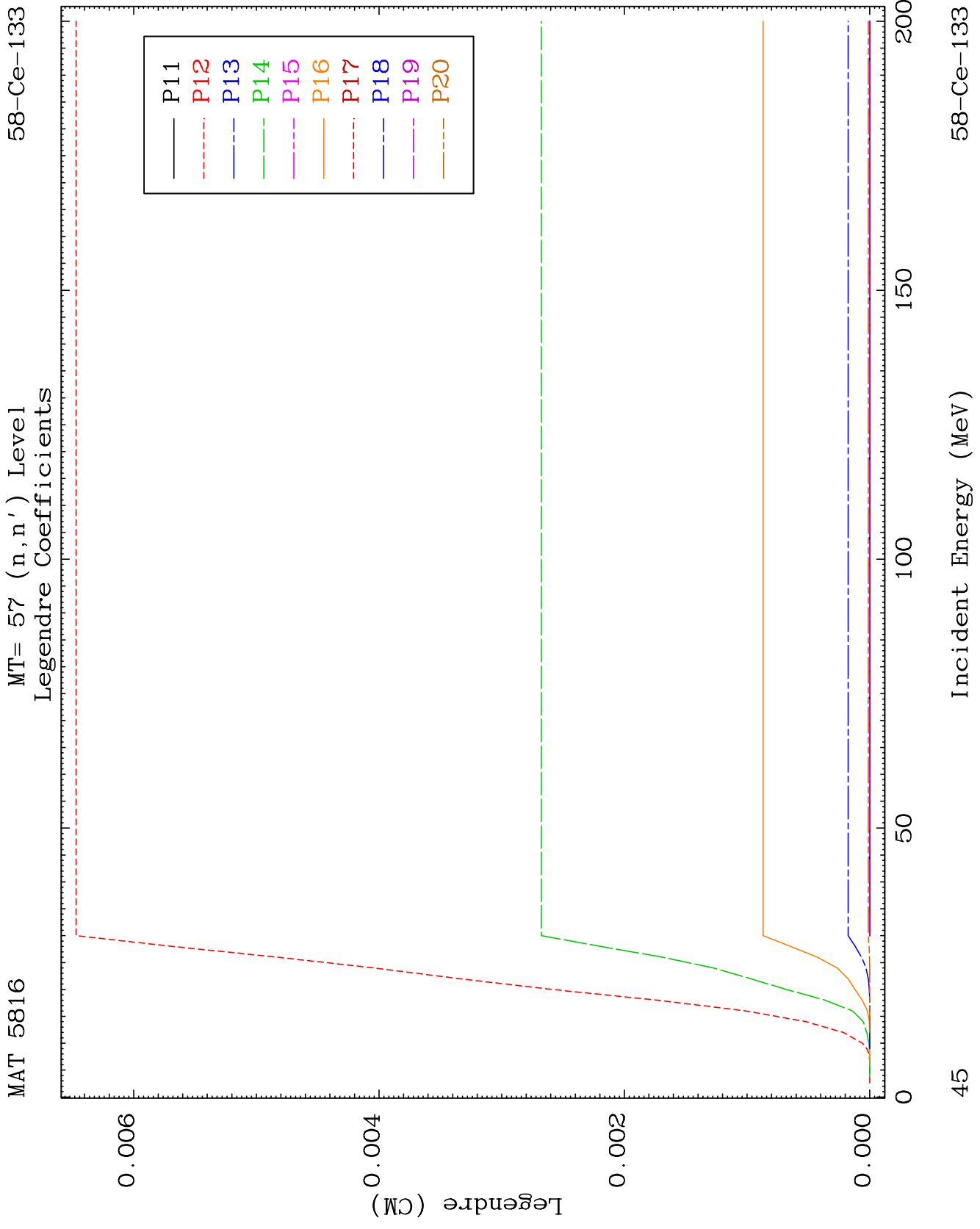
58-Ce-133

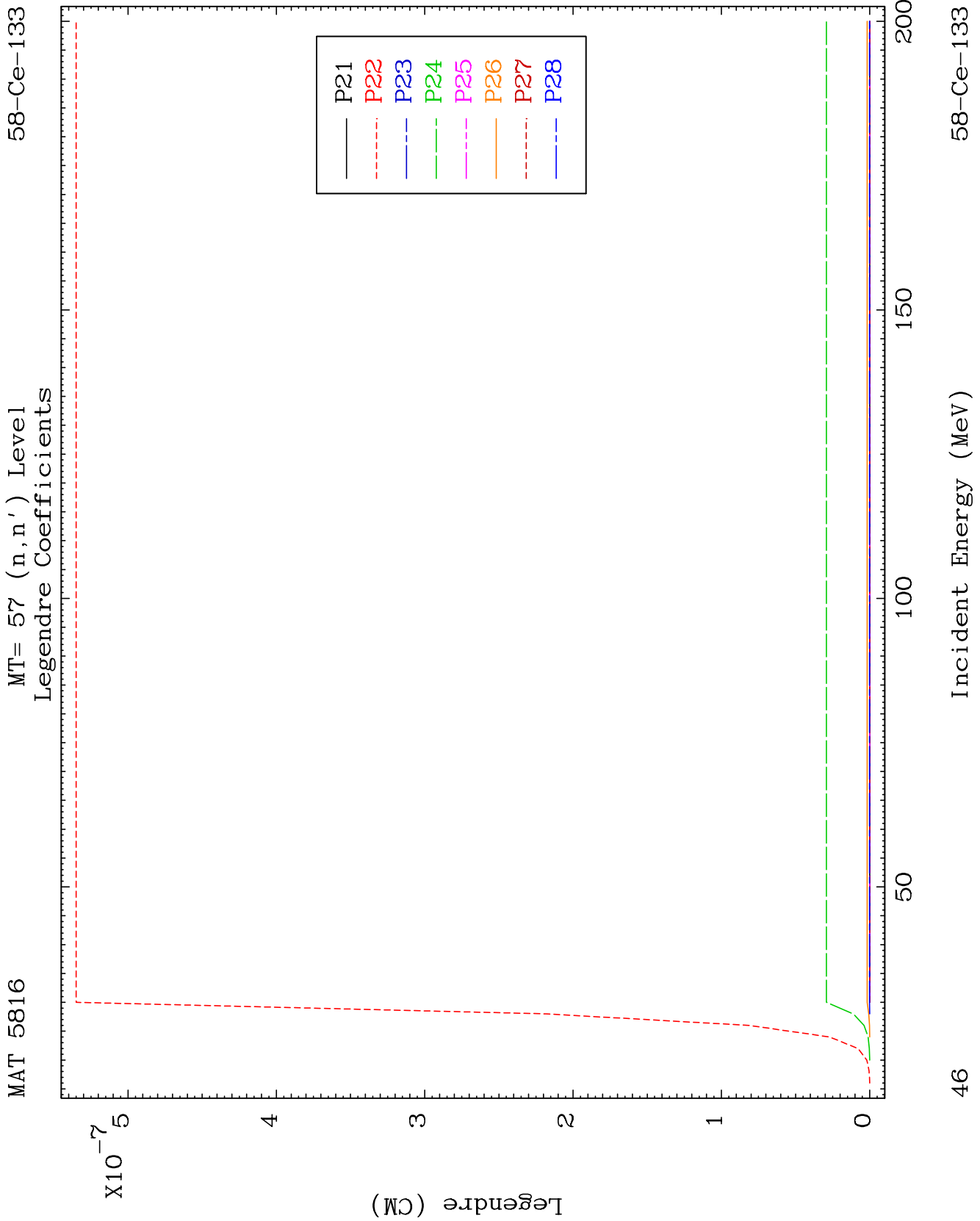


58-Ce-133

Incident Energy (MeV)

44

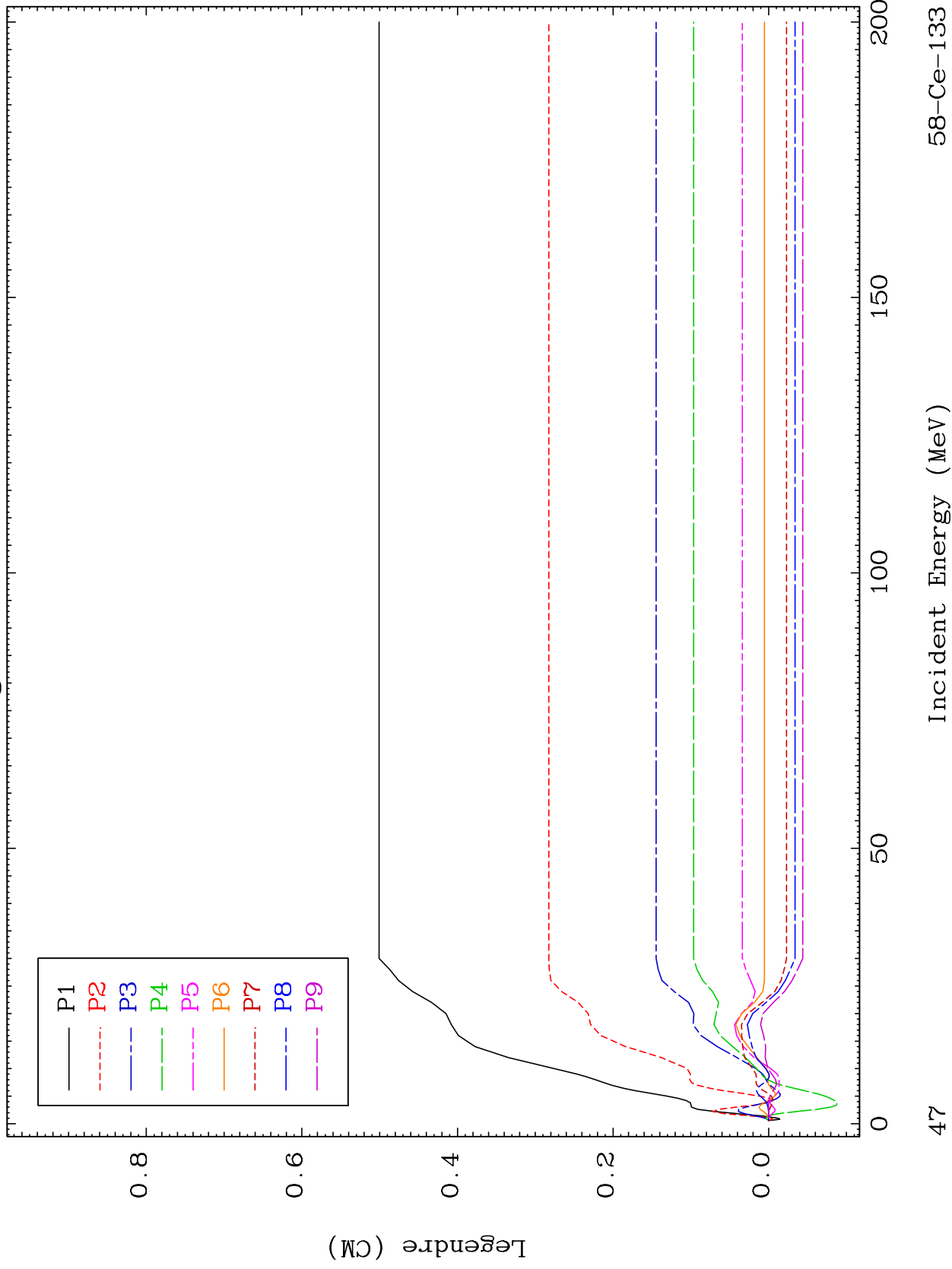




MAT 5816

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

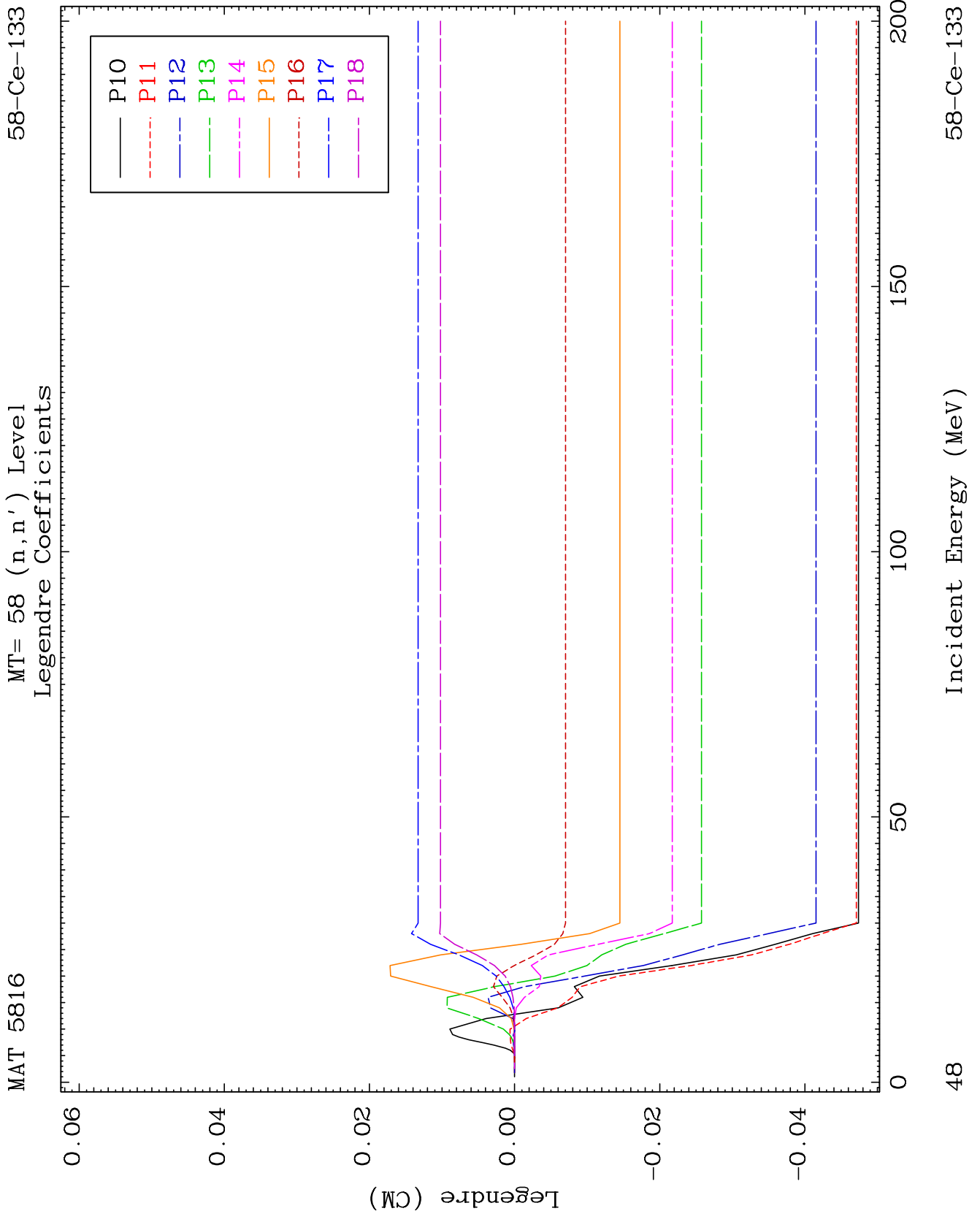
58-Ce-133



58-Ce-133

Incident Energy (MeV)

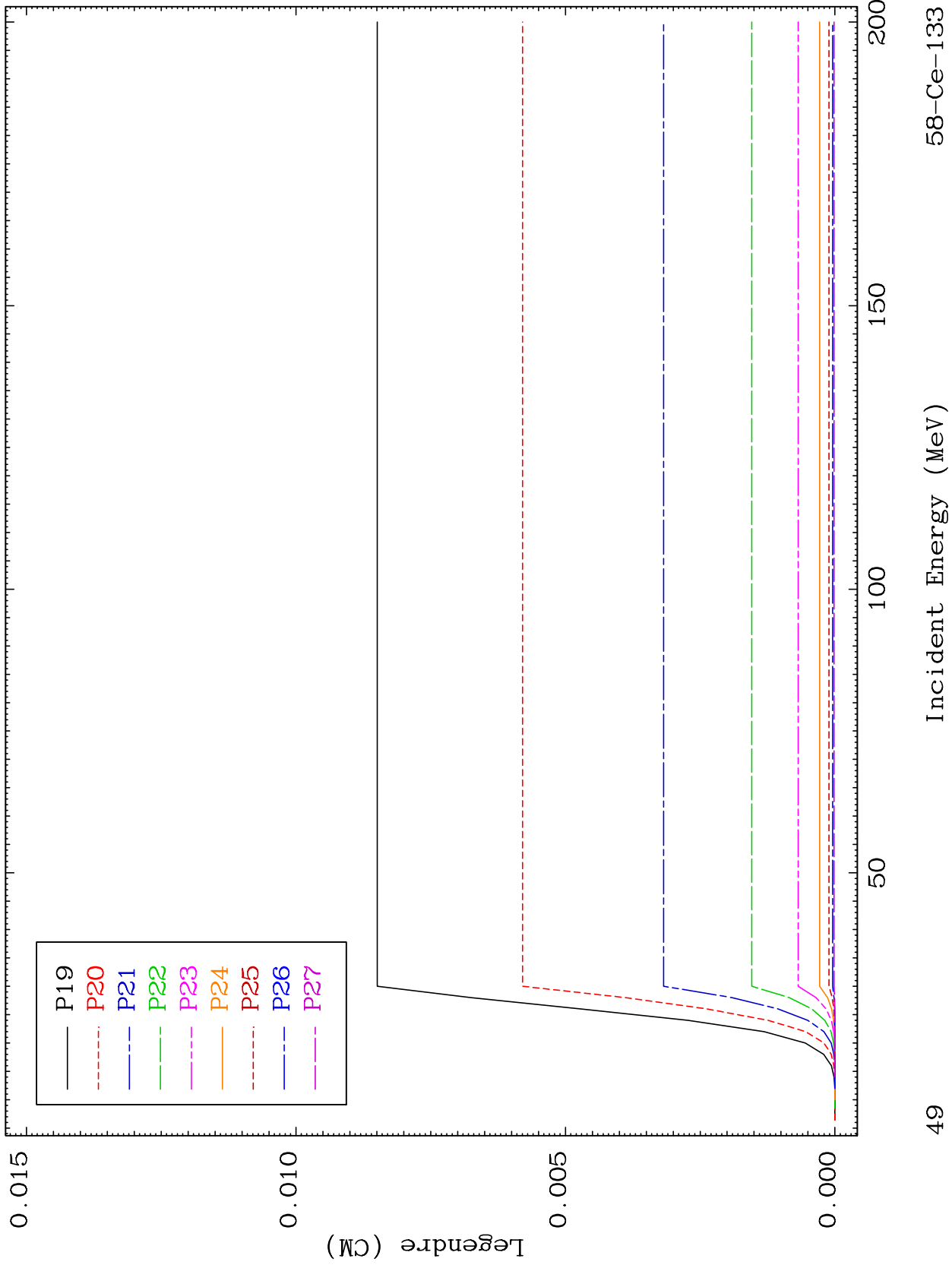
47



MAT 5816

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

58-Ce-133



49

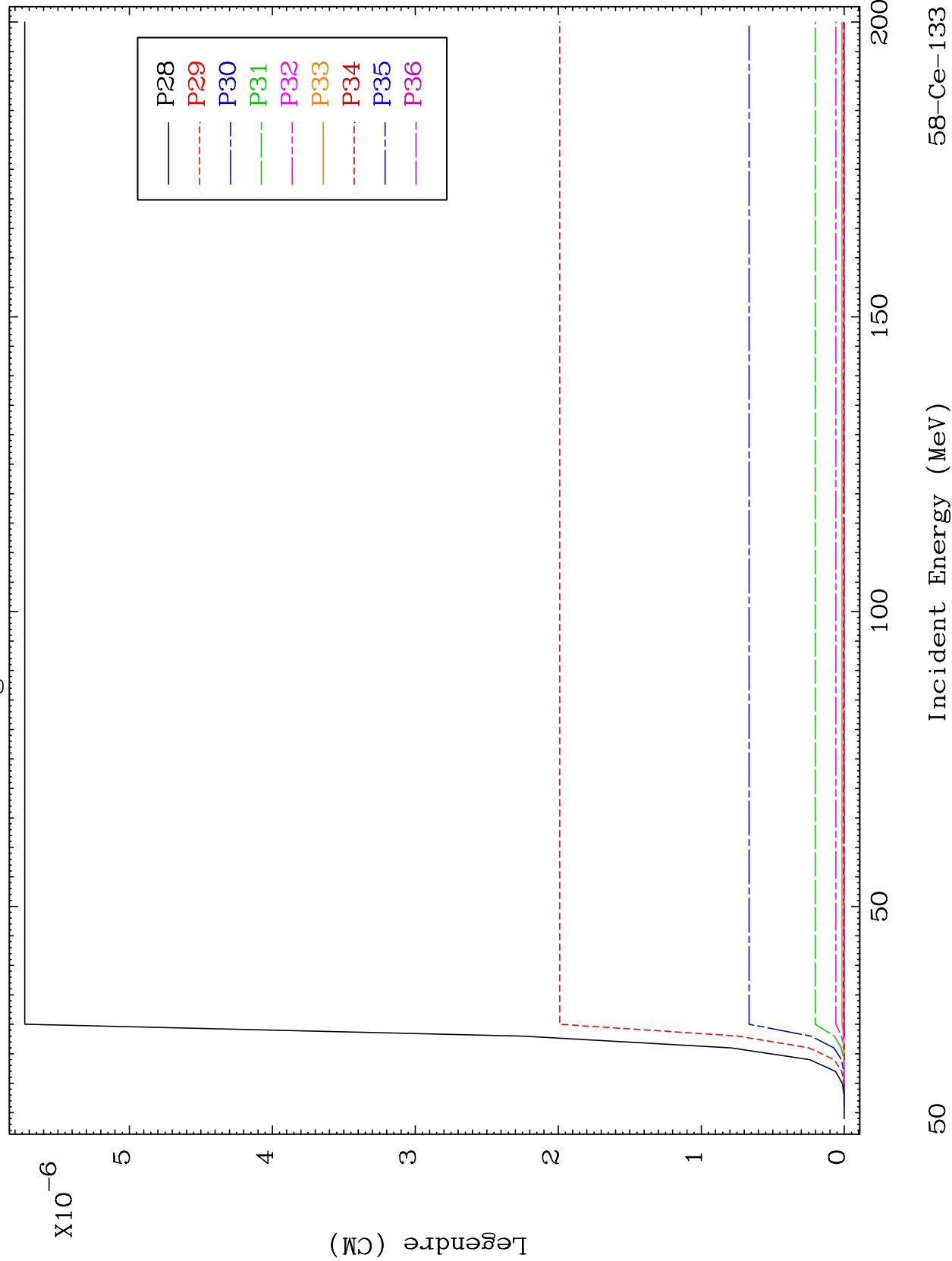
Incident Energy (MeV)

58-Ce-133

MAT 5816

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

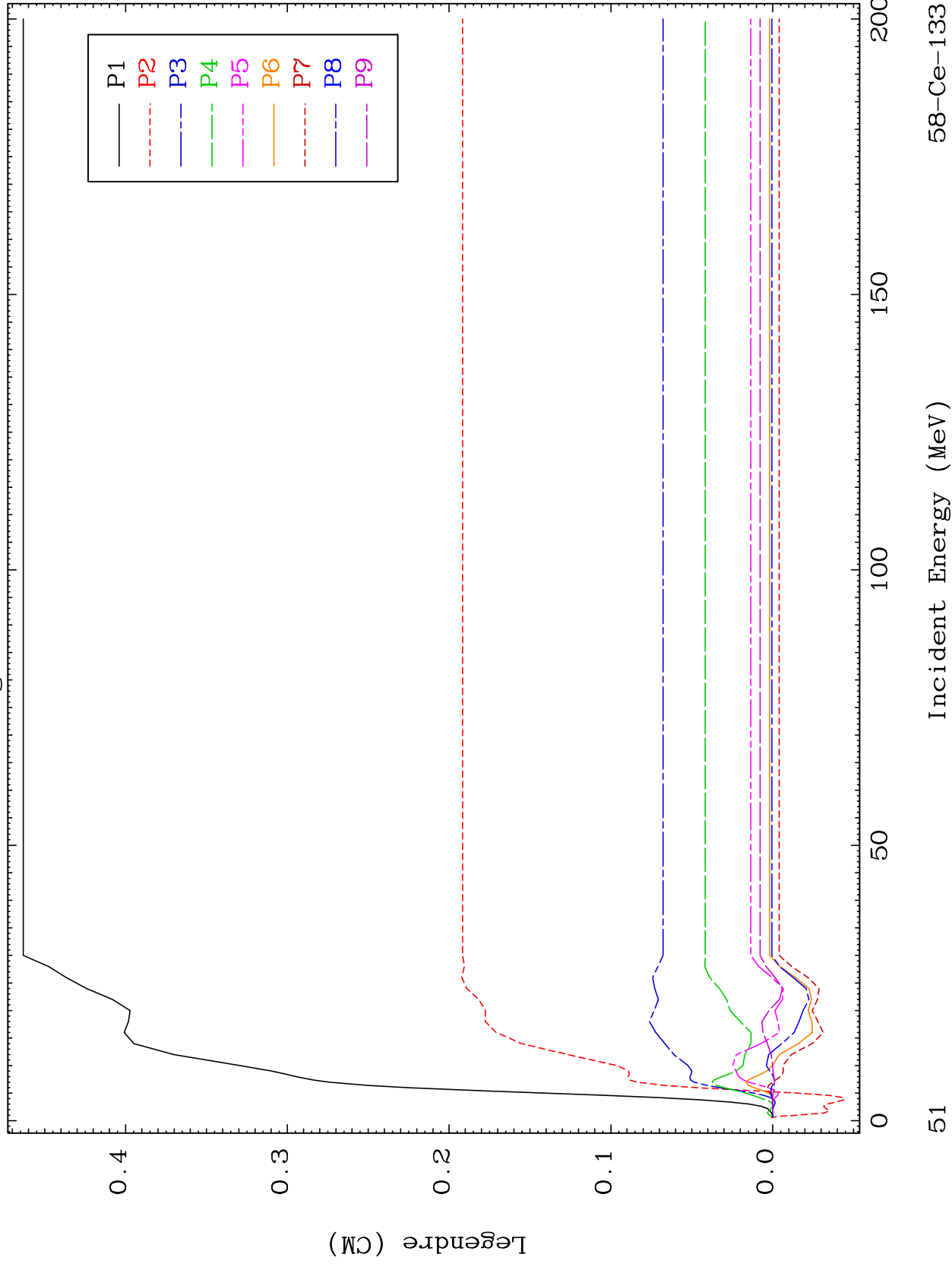
58-Ce-133



MAT 5816

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

58-Ce-133



58-Ce-133

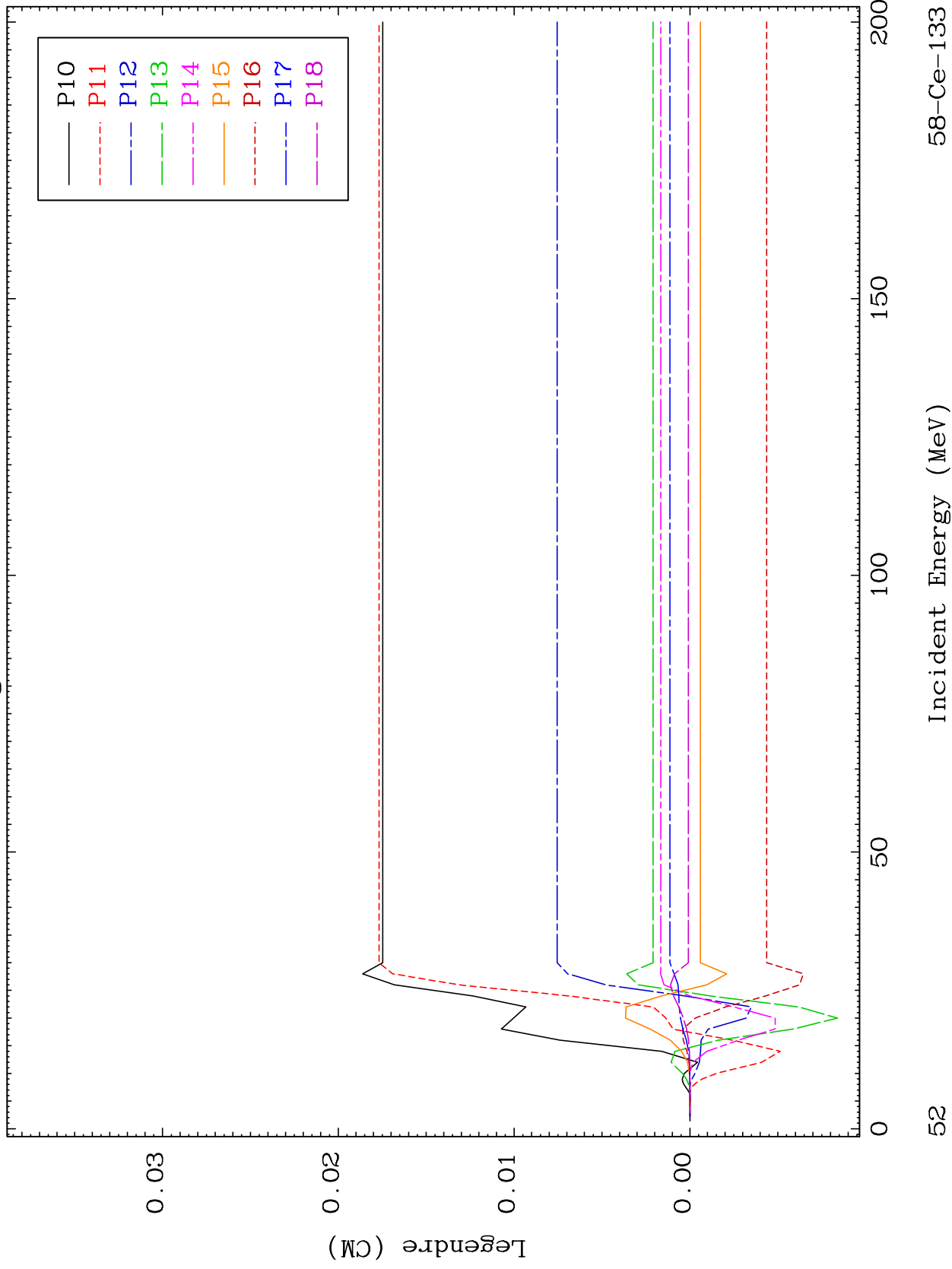
Incident Energy (MeV)

51

MAT 5816

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

58-Ce-133



58-Ce-133

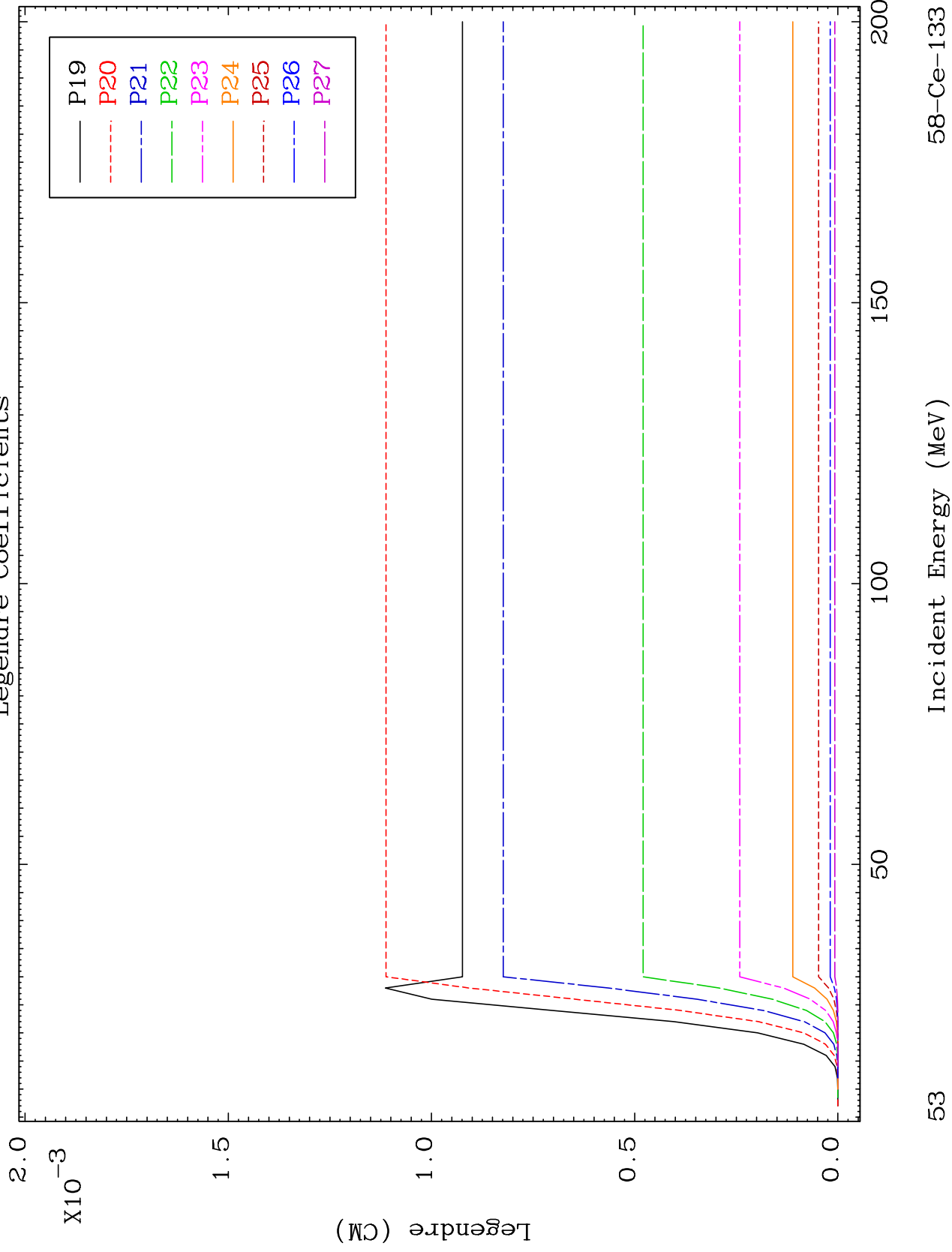
Incident Energy (MeV)

52

MAT 5816

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

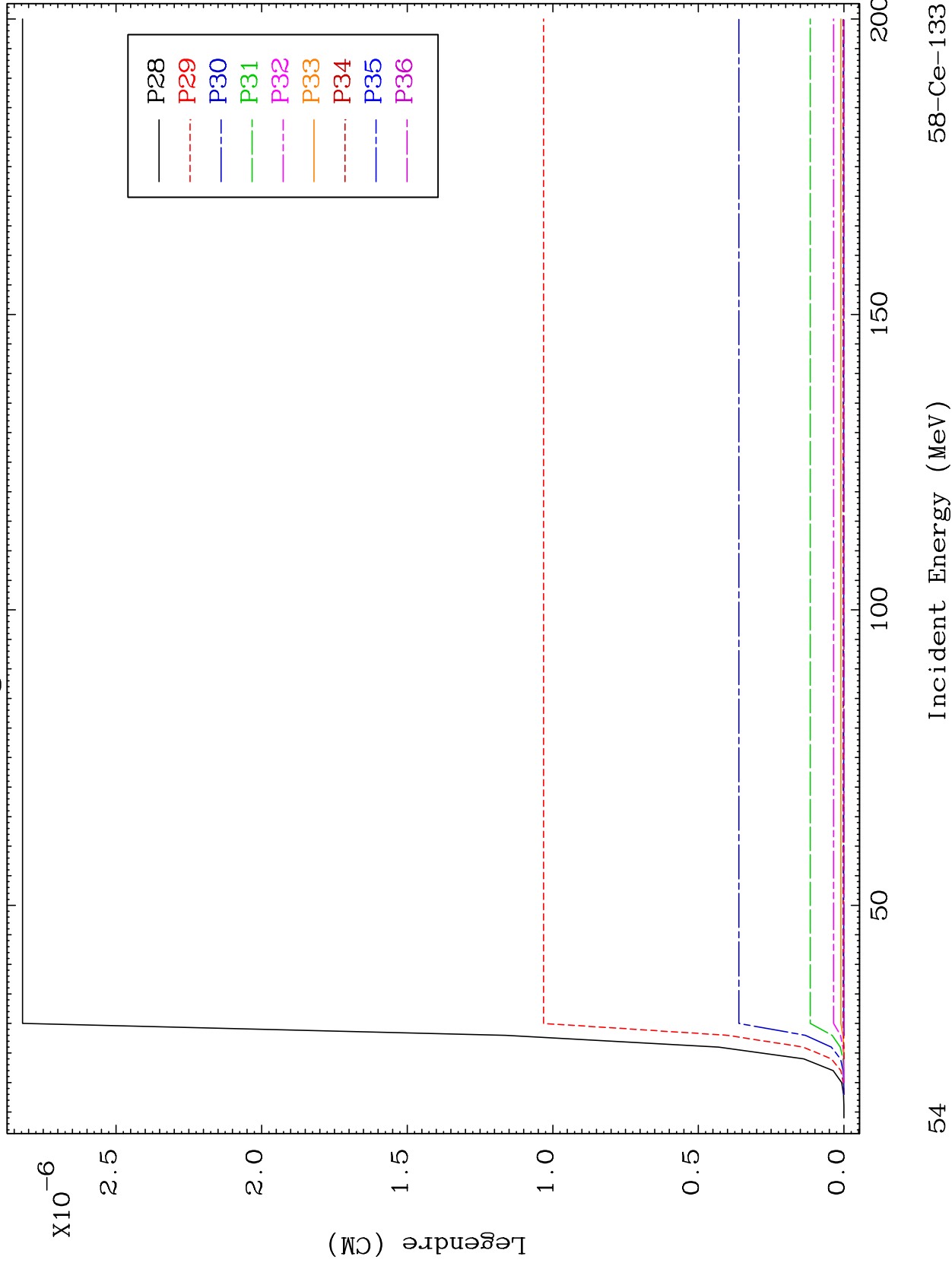
58-Ce-133



MAT 5816

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

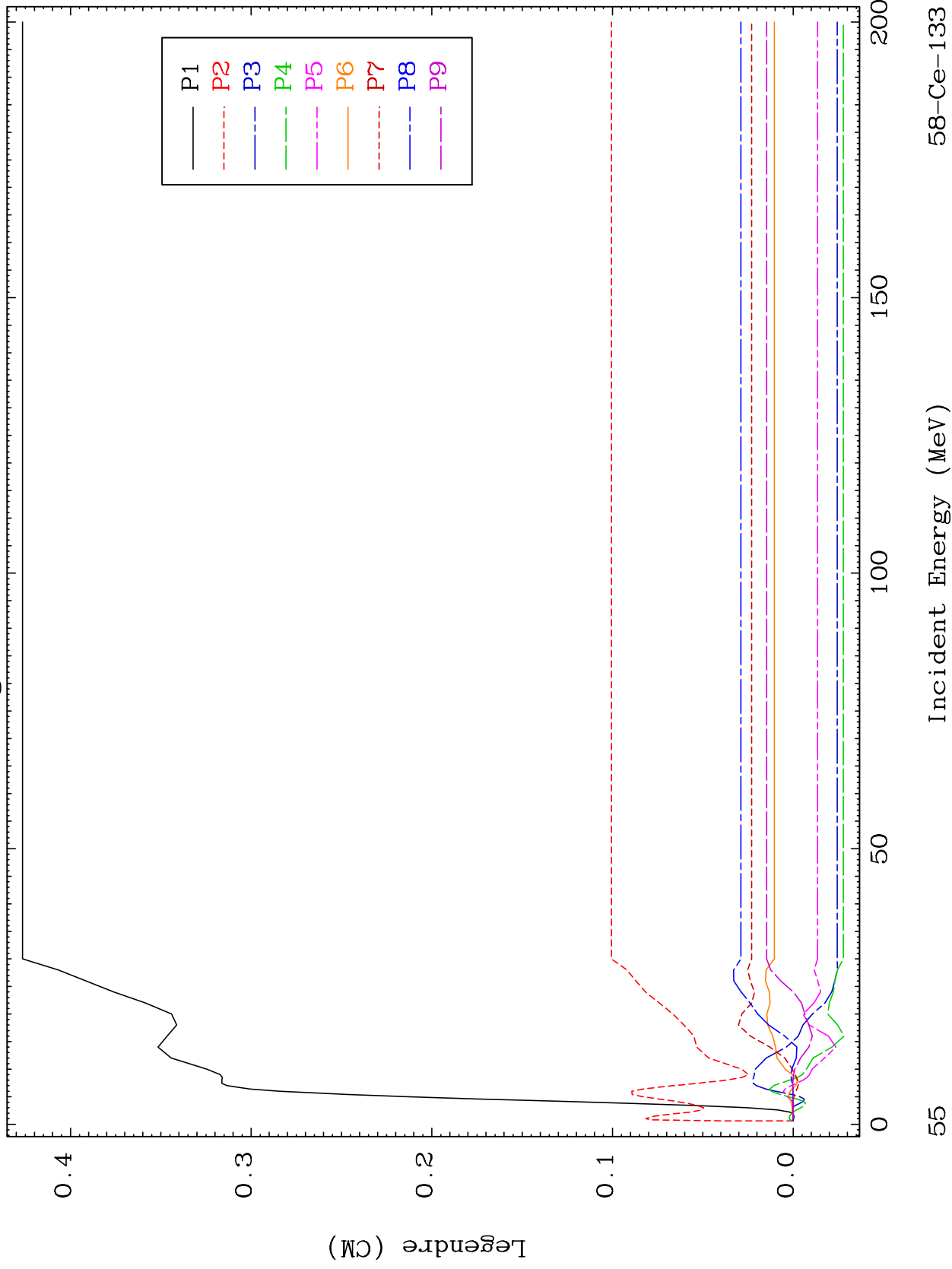
58-Ce-133



MAT 5816

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

58-Ce-133



55

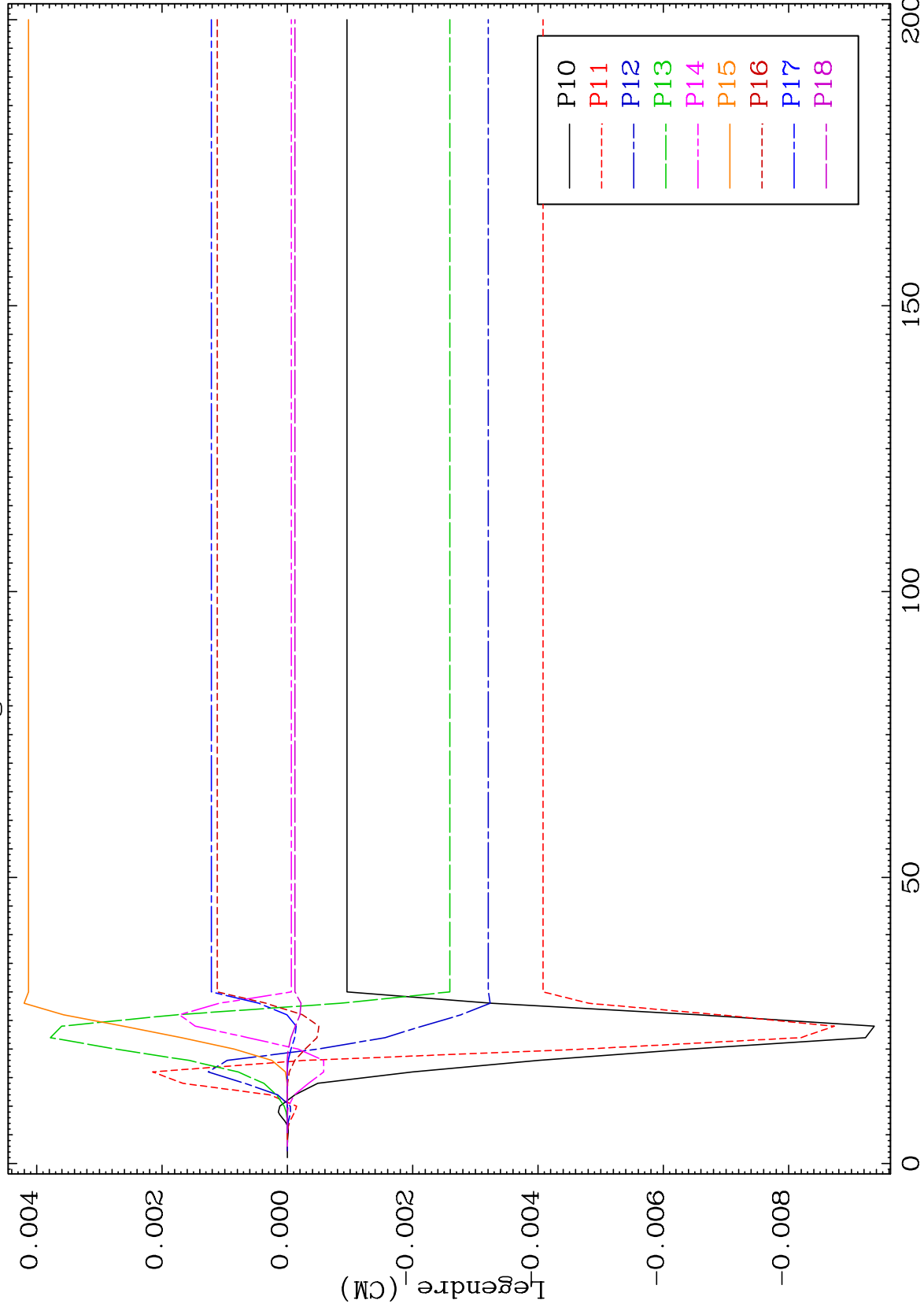
Incident Energy (MeV)

58-Ce-133

MAT 5816

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

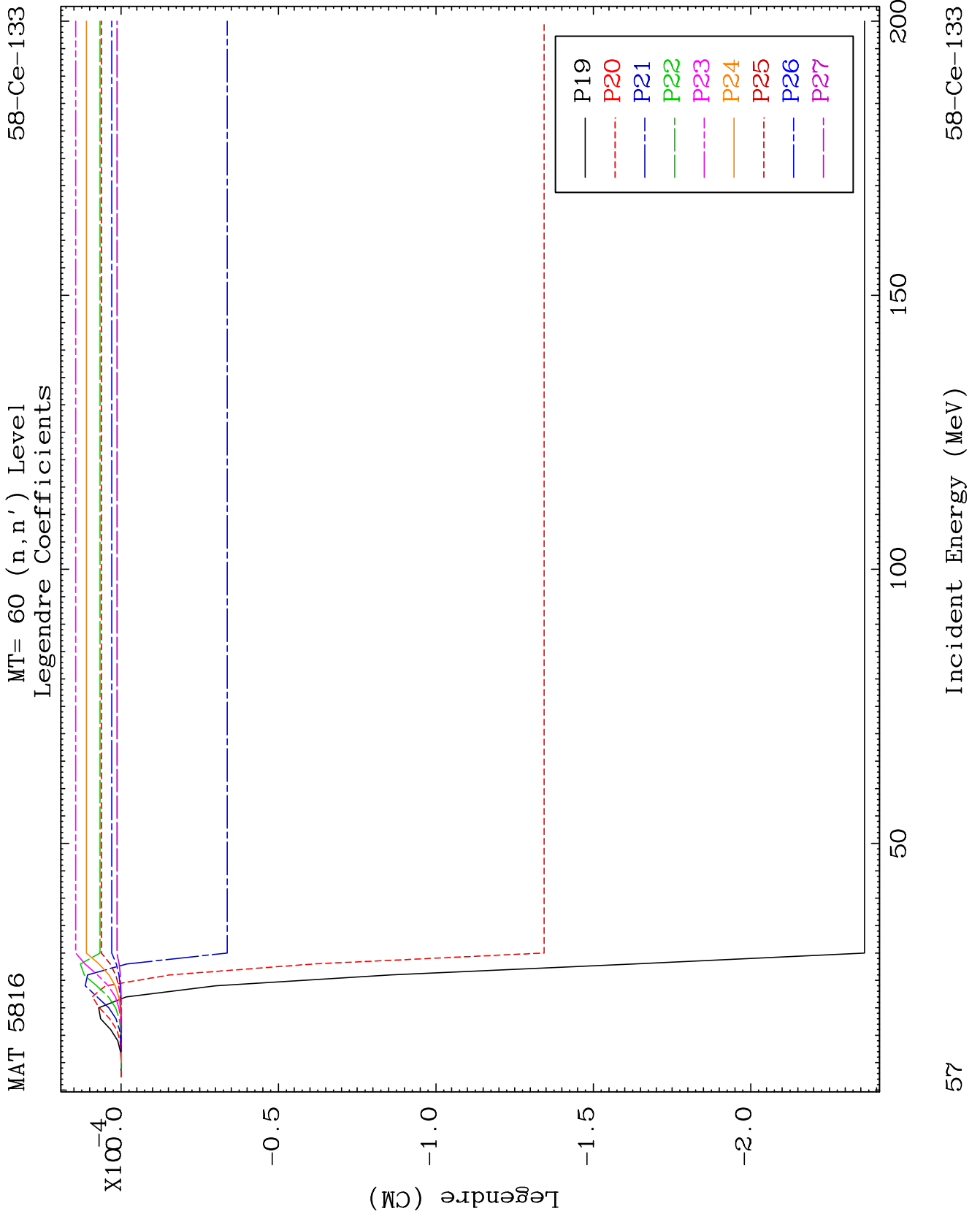
58-Ce-133



56

Incident Energy (MeV)

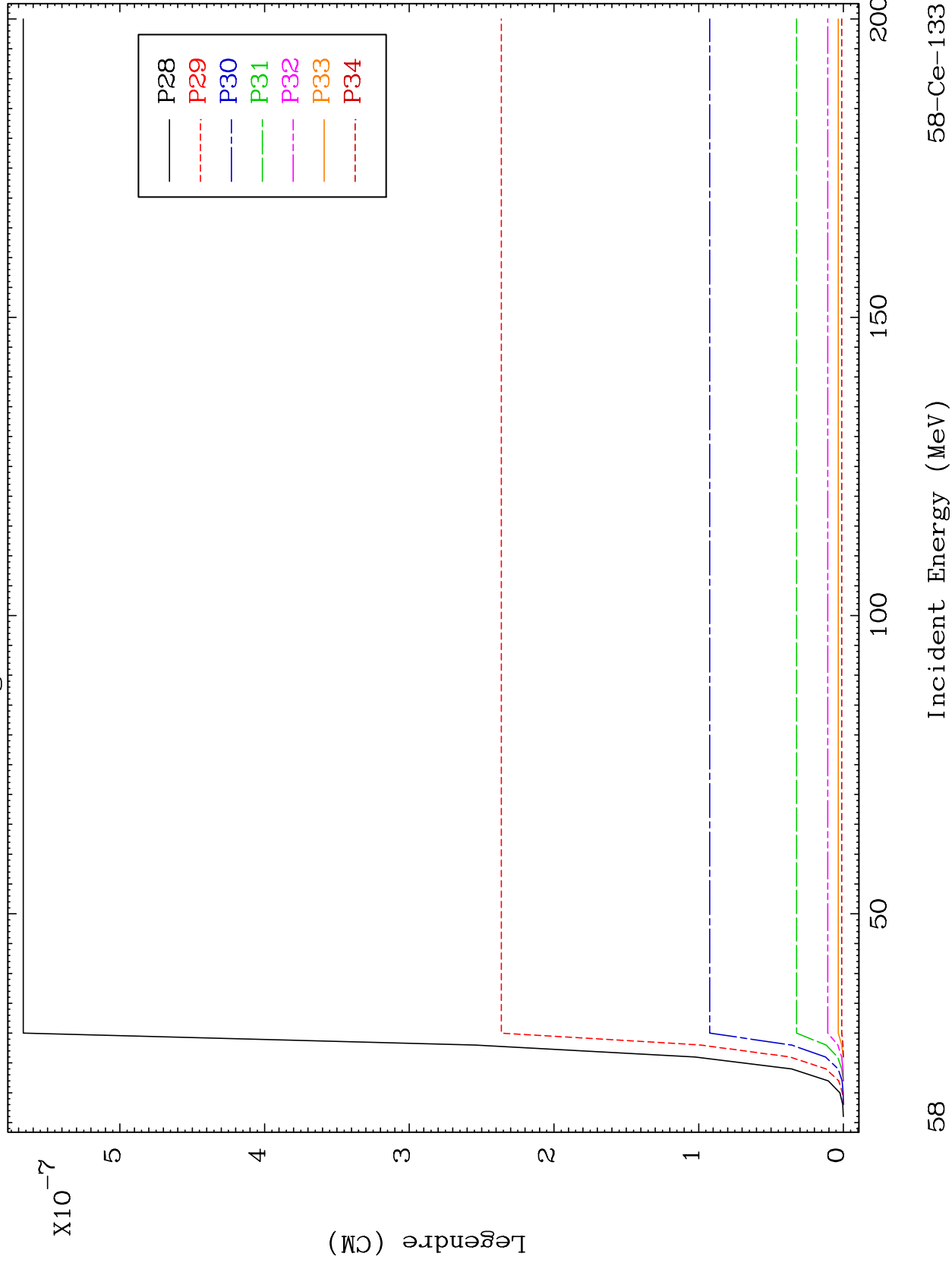
58-Ce-133

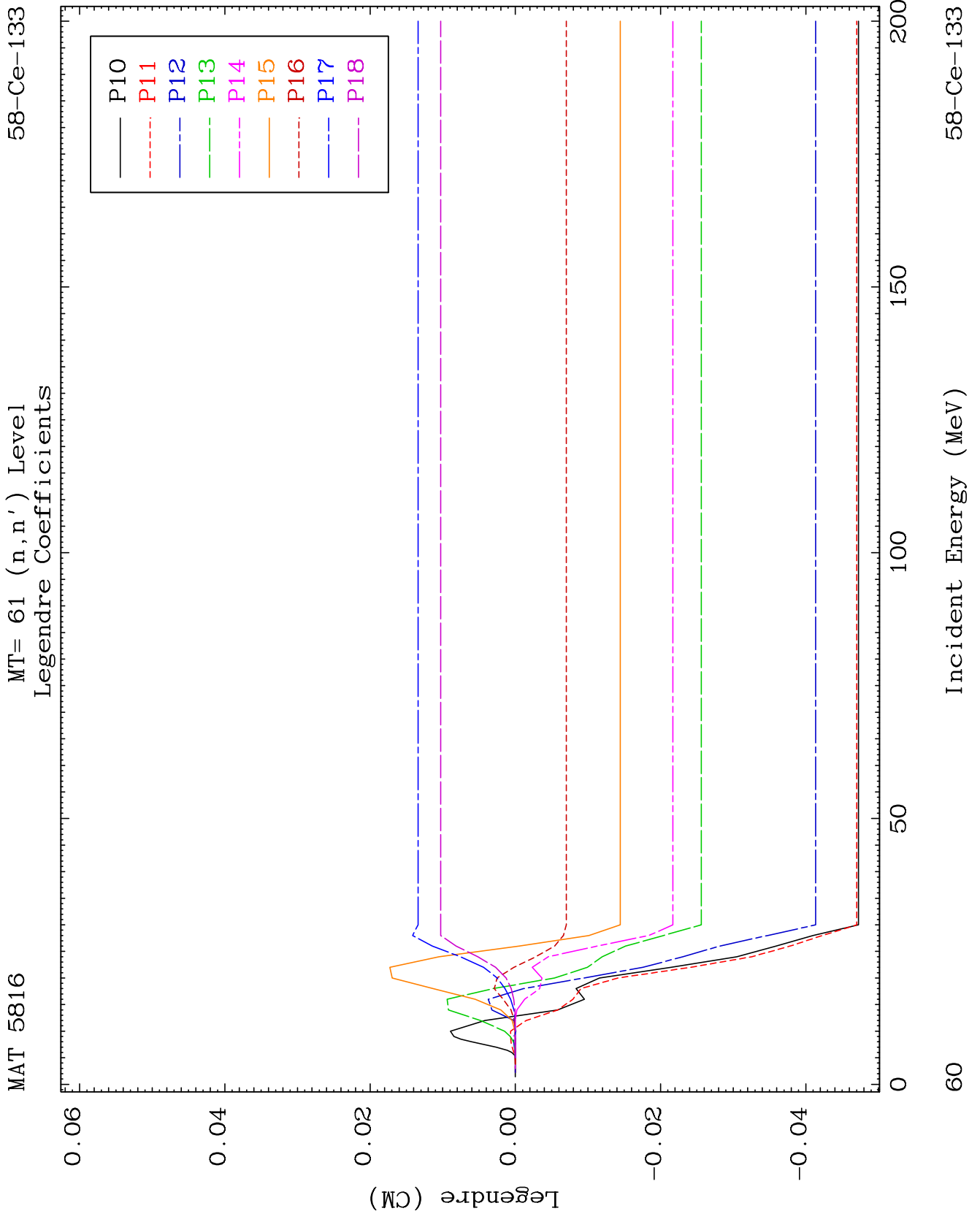


MAT 5816

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

58-Ce-133

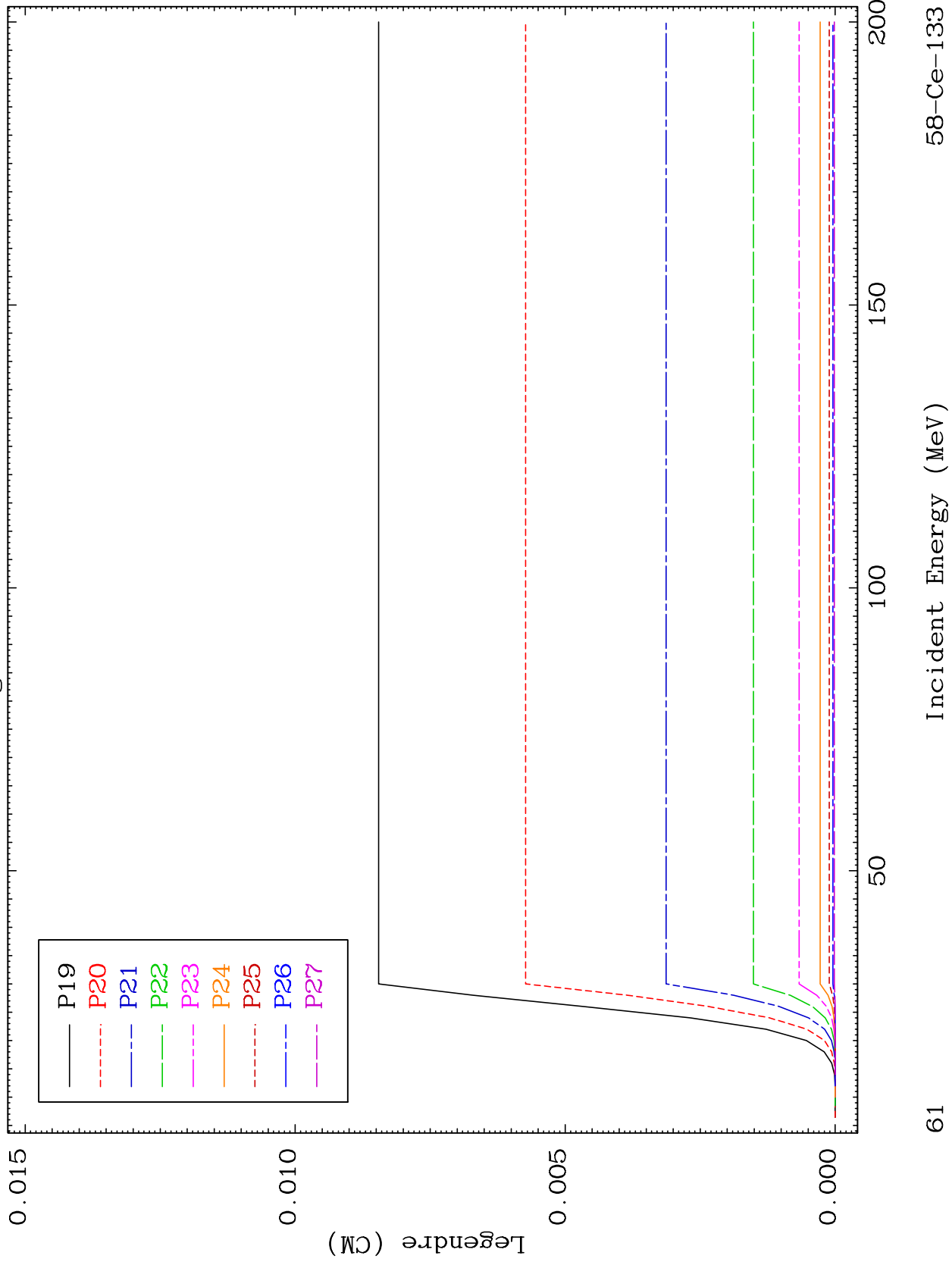




MAT 5816

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

58-Ce-133



61

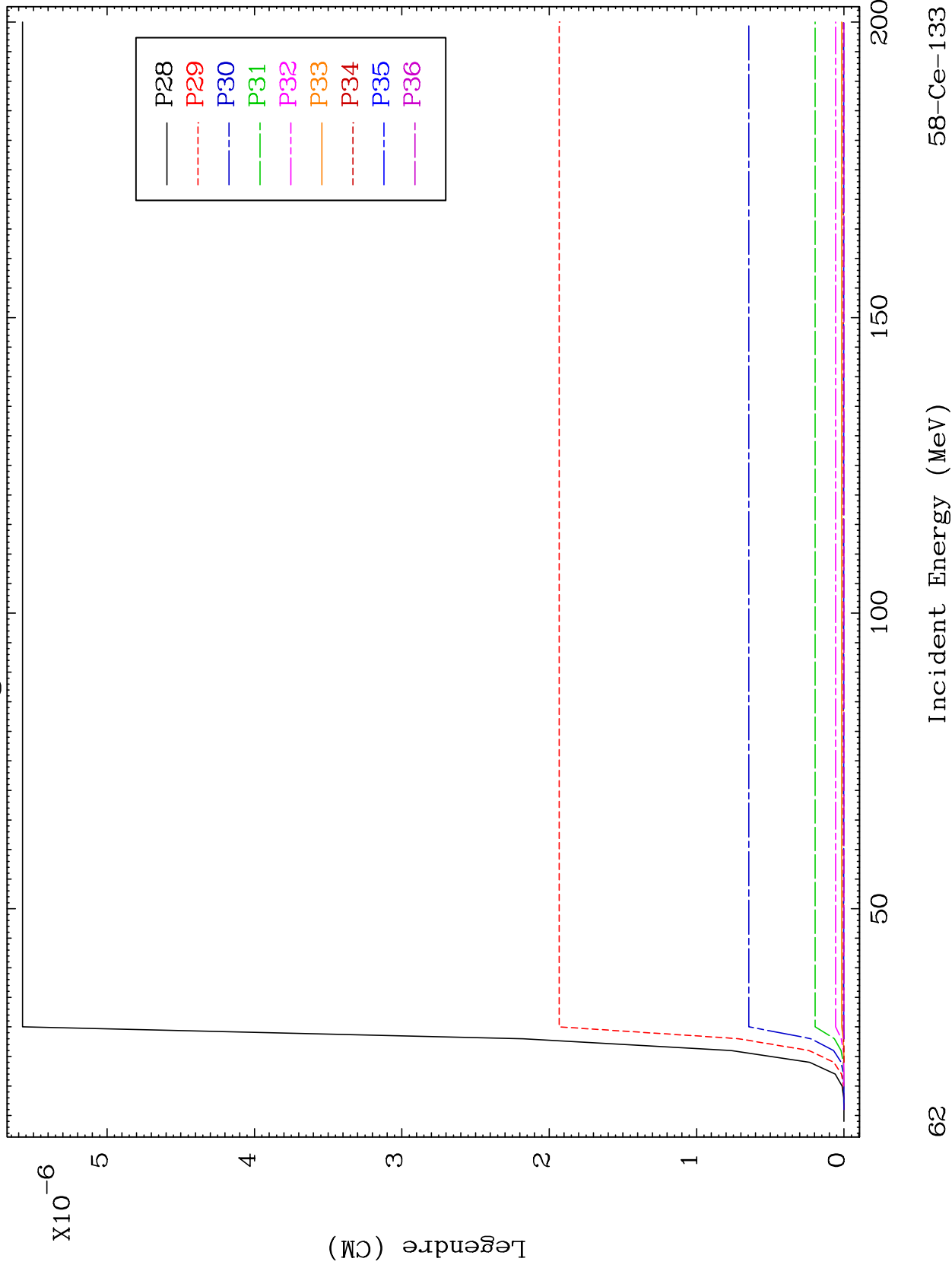
Incident Energy (MeV)

58-Ce-133

MAT 5816

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

58-Ce-133

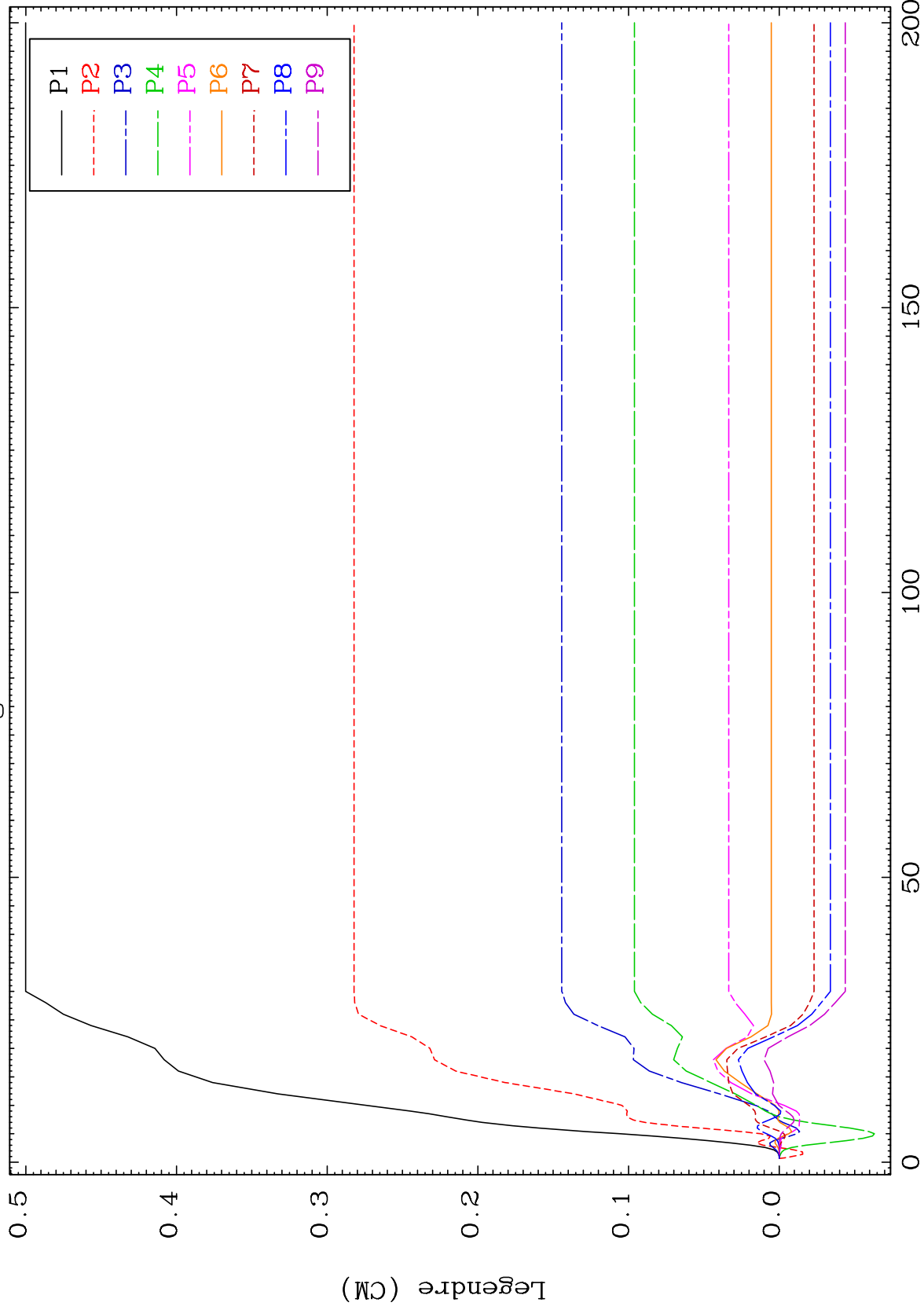


MAT 5816

MT= 62 (n,n') Level

58-Ce-133

Legendre Coefficients



63

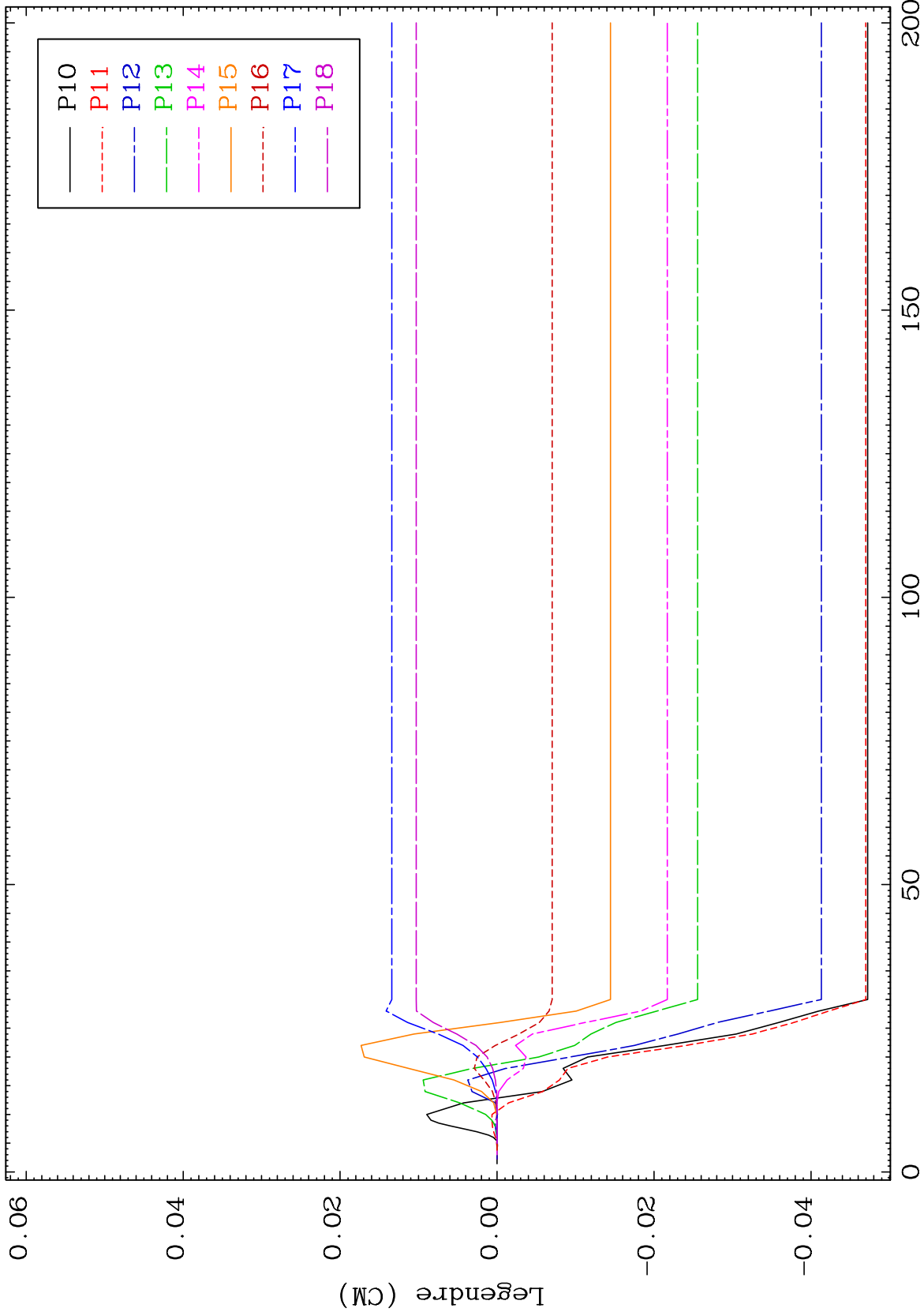
Incident Energy (MeV)

58-Ce-133

MAT 5816

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

58-Ce-133



64

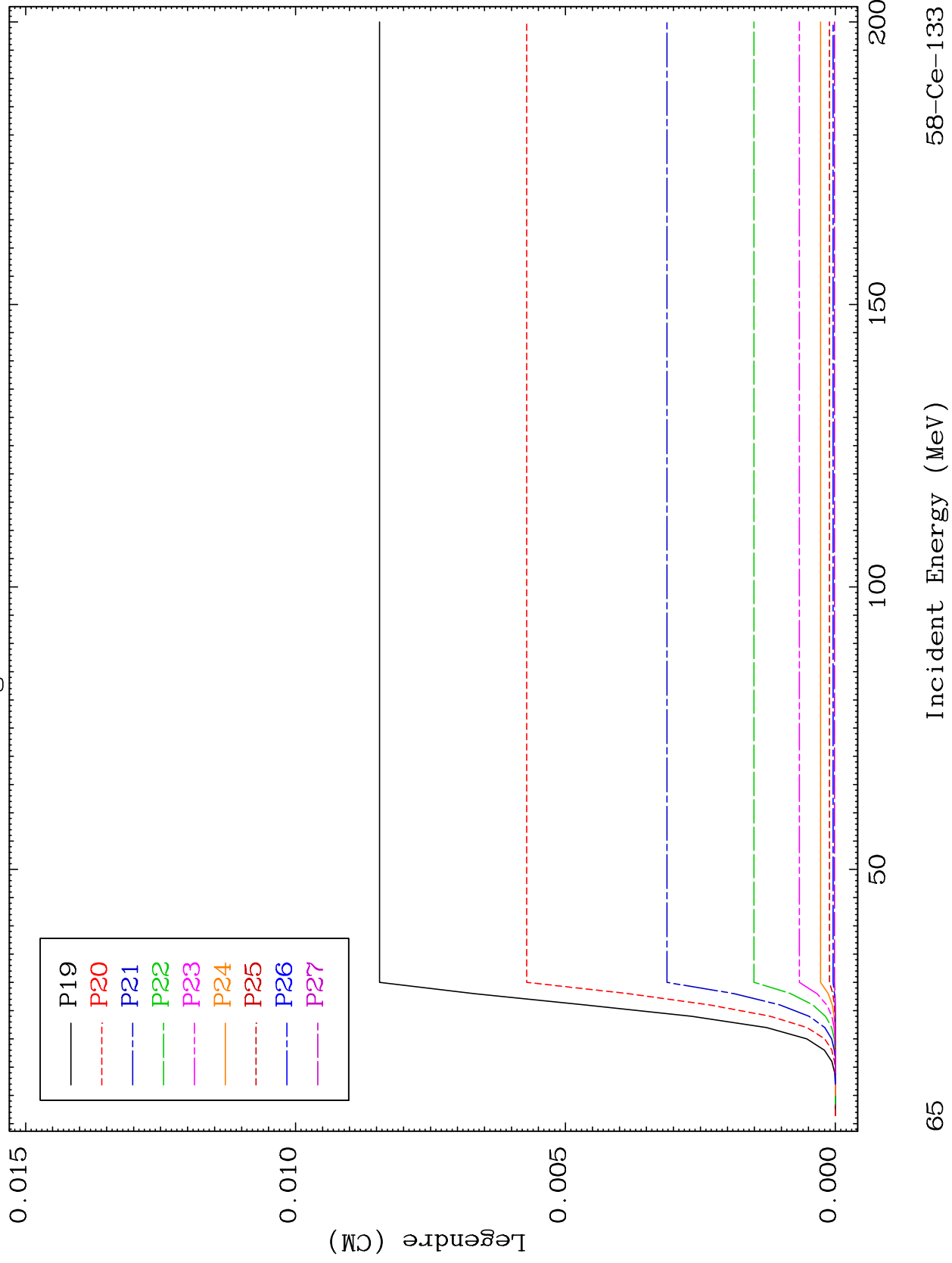
Incident Energy (MeV)

58-Ce-133

MAT 5816

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

58-Ce-133



65

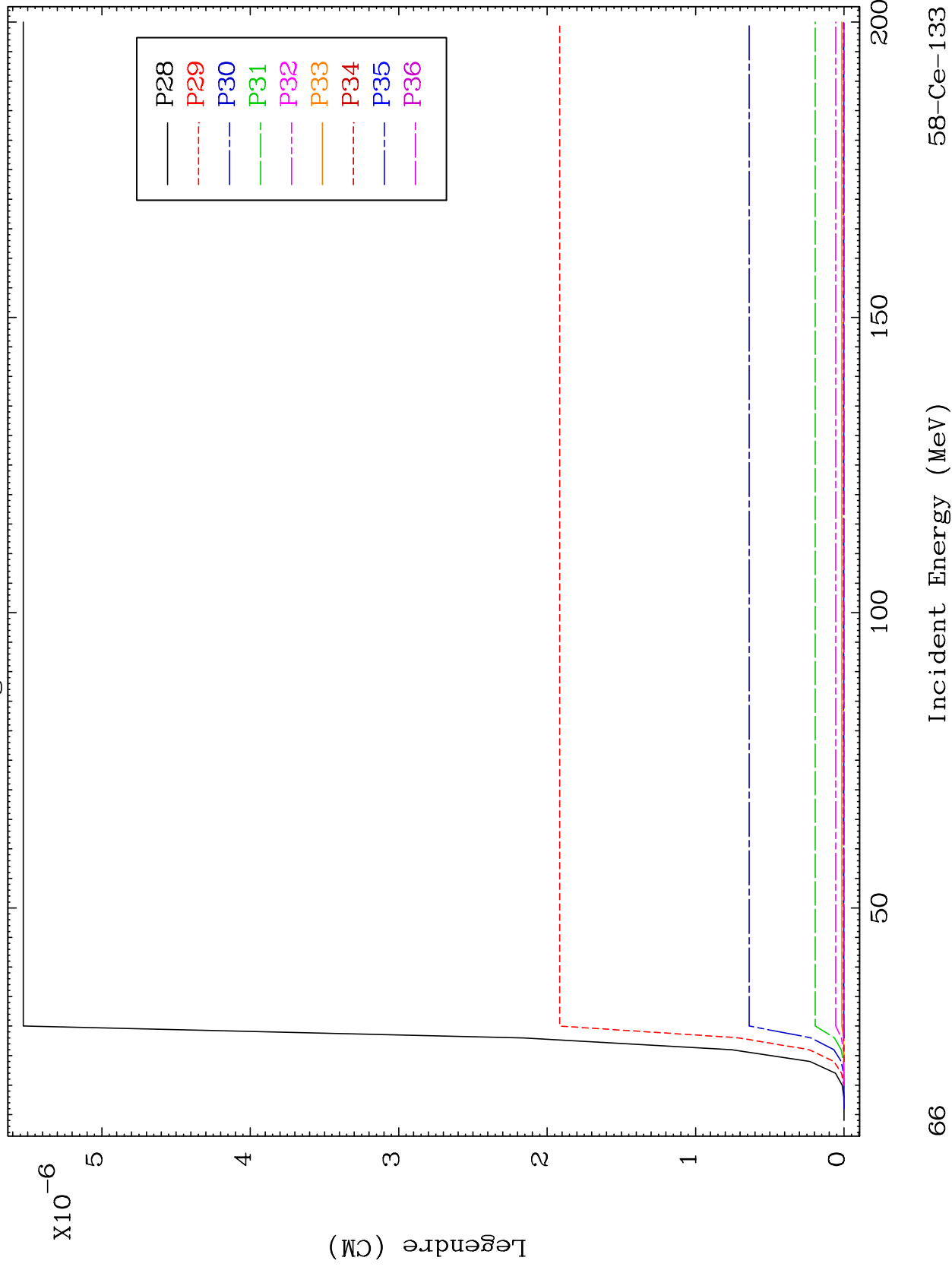
Incident Energy (MeV)

58-Ce-133

MAT 5816

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

58-Ce-133



66

Incident Energy (MeV)

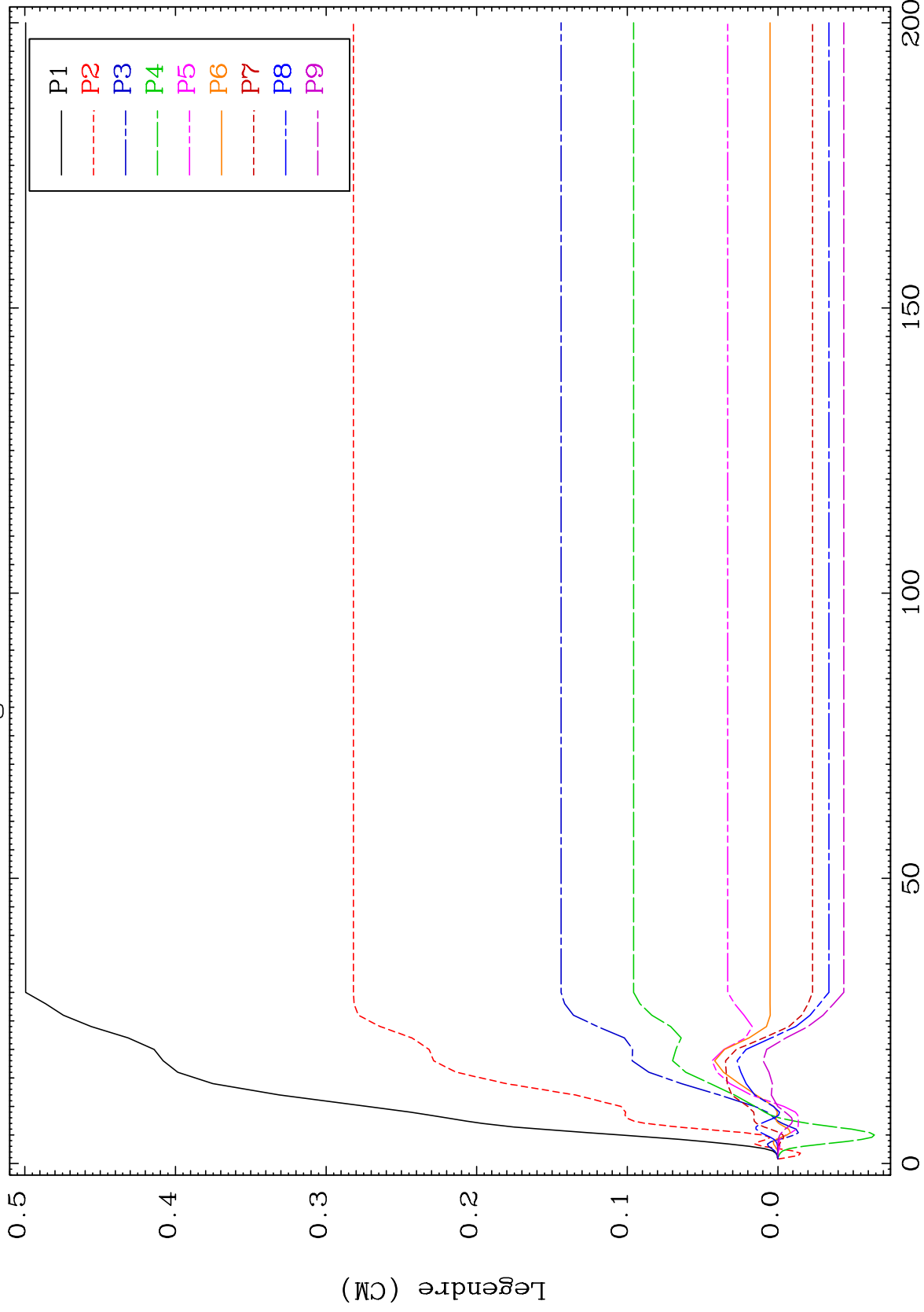
58-Ce-133

MAT 5816

MT= 63 (n,n') Level

58-Ce-133

Legendre Coefficients



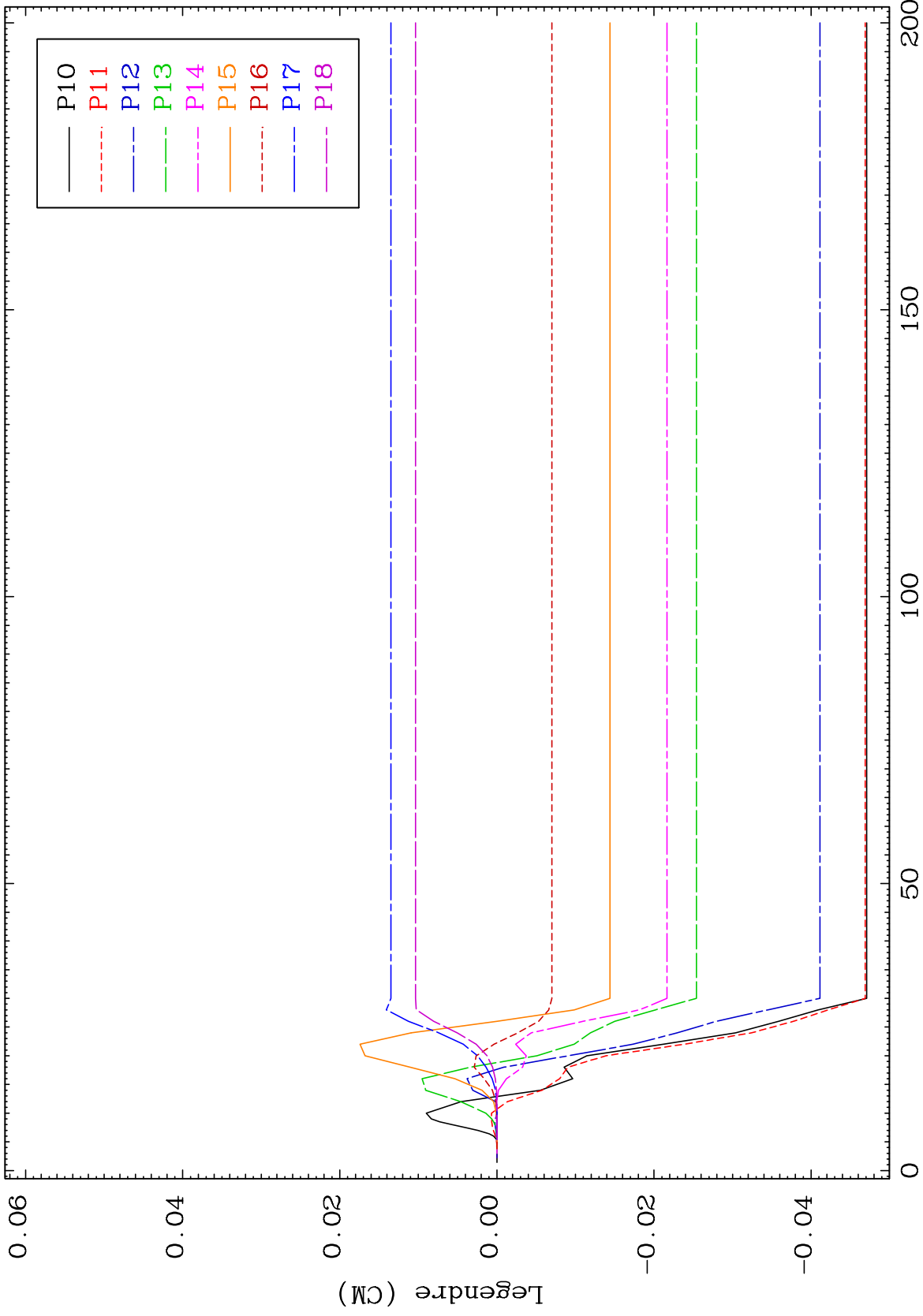
67

58-Ce-133

MAT 5816

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

58-Ce-133



68

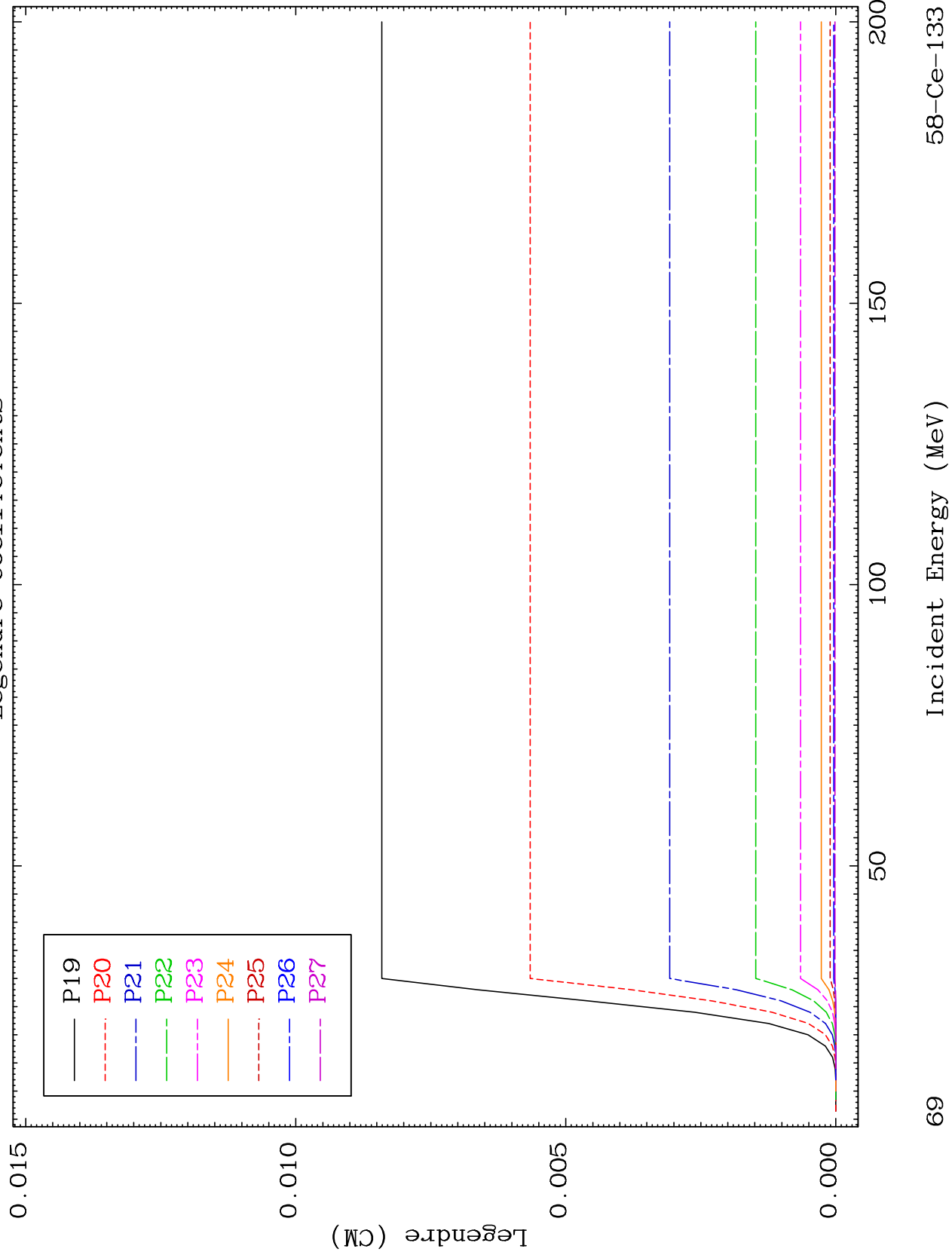
Incident Energy (MeV)

58-Ce-133

MAT 5816

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

58-Ce-133



69

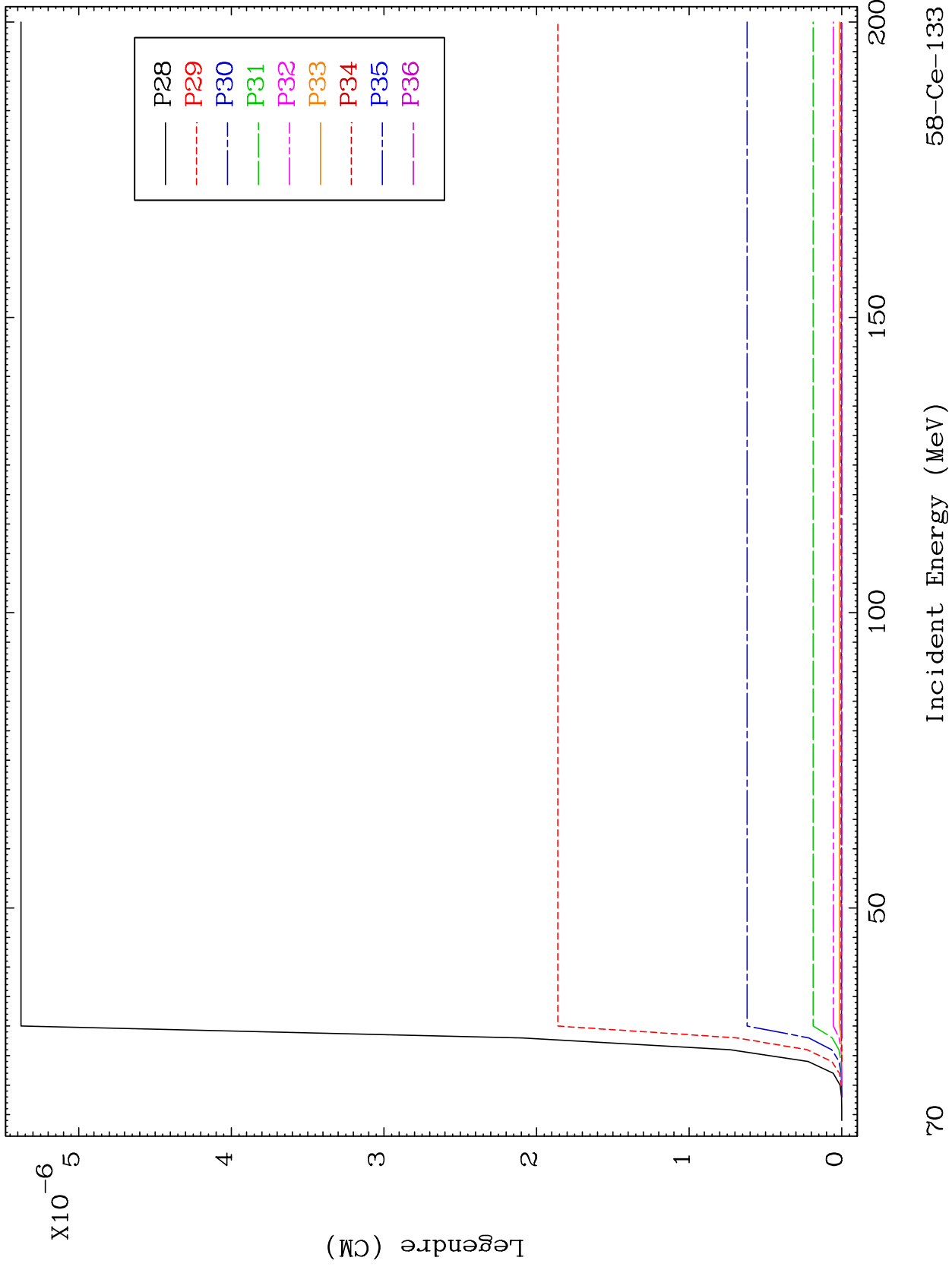
Incident Energy (MeV)

58-Ce-133

MAT 5816

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

58-Ce-133



58-Ce-133

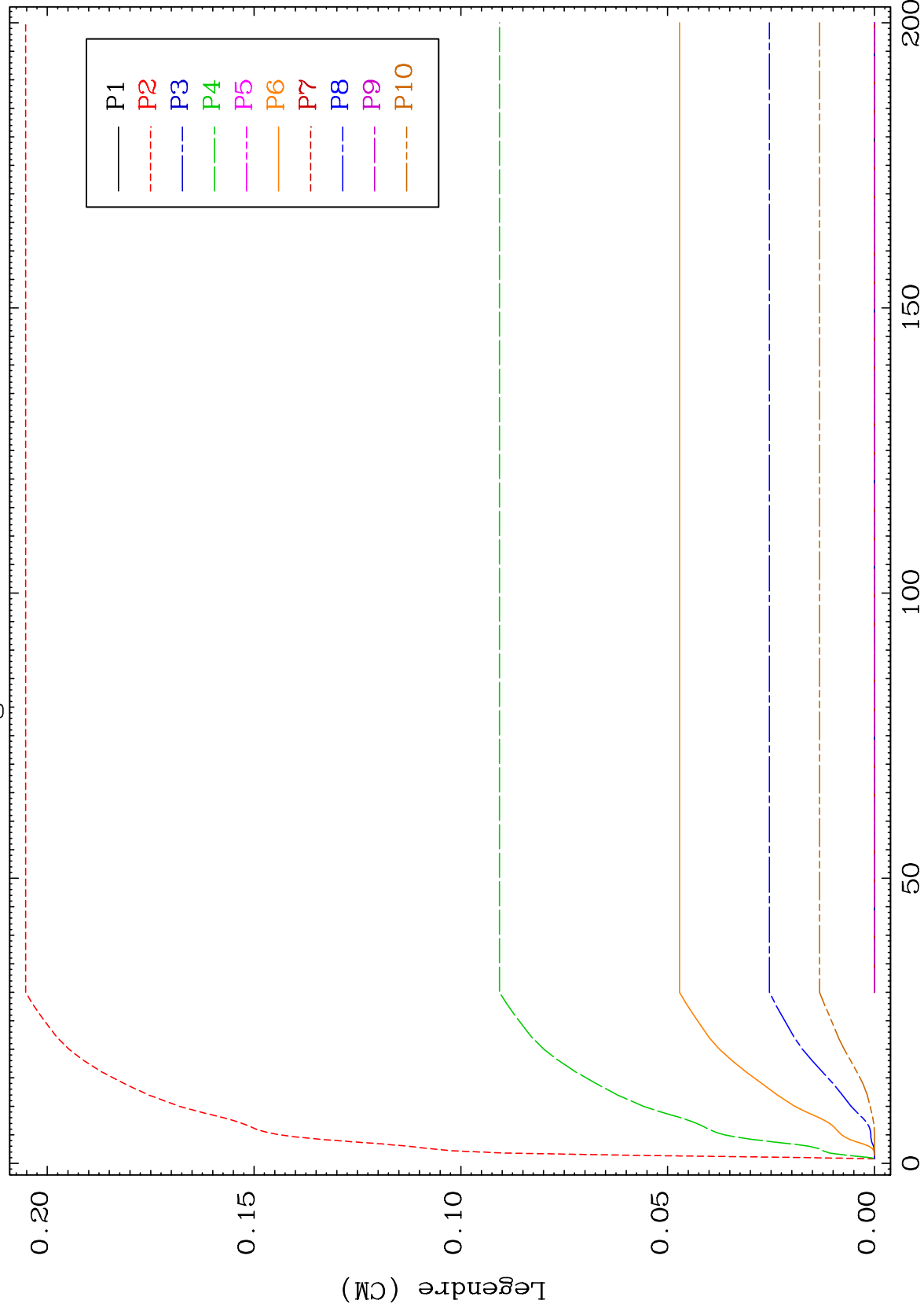
Incident Energy (MeV)

70

MAT 5816

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

58-Ce-133



71

Incident Energy (MeV)

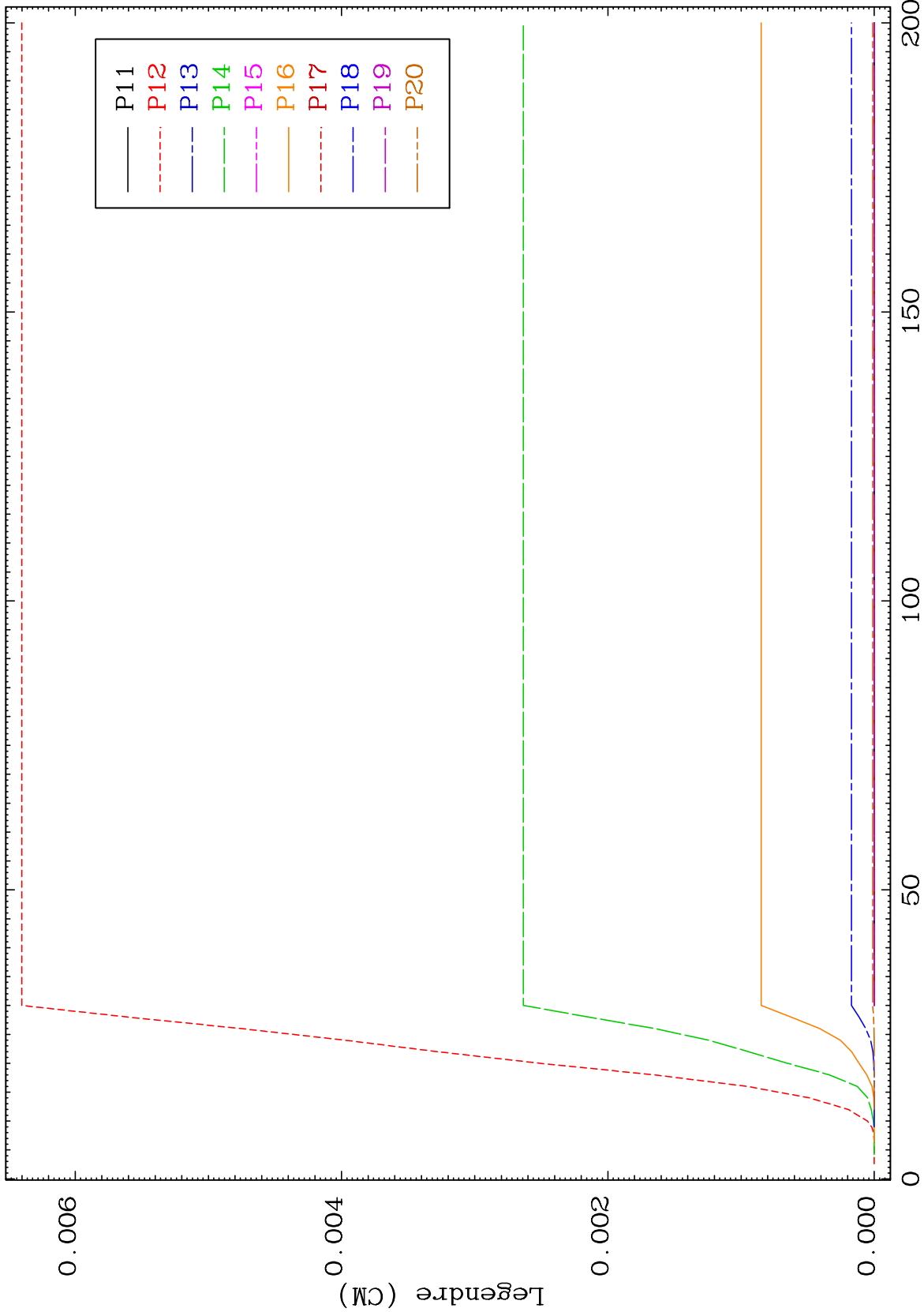
58-Ce-133

MAT 5816

MT= 64 (n,n') Level

58-Ce-133

Legendre Coefficients



72

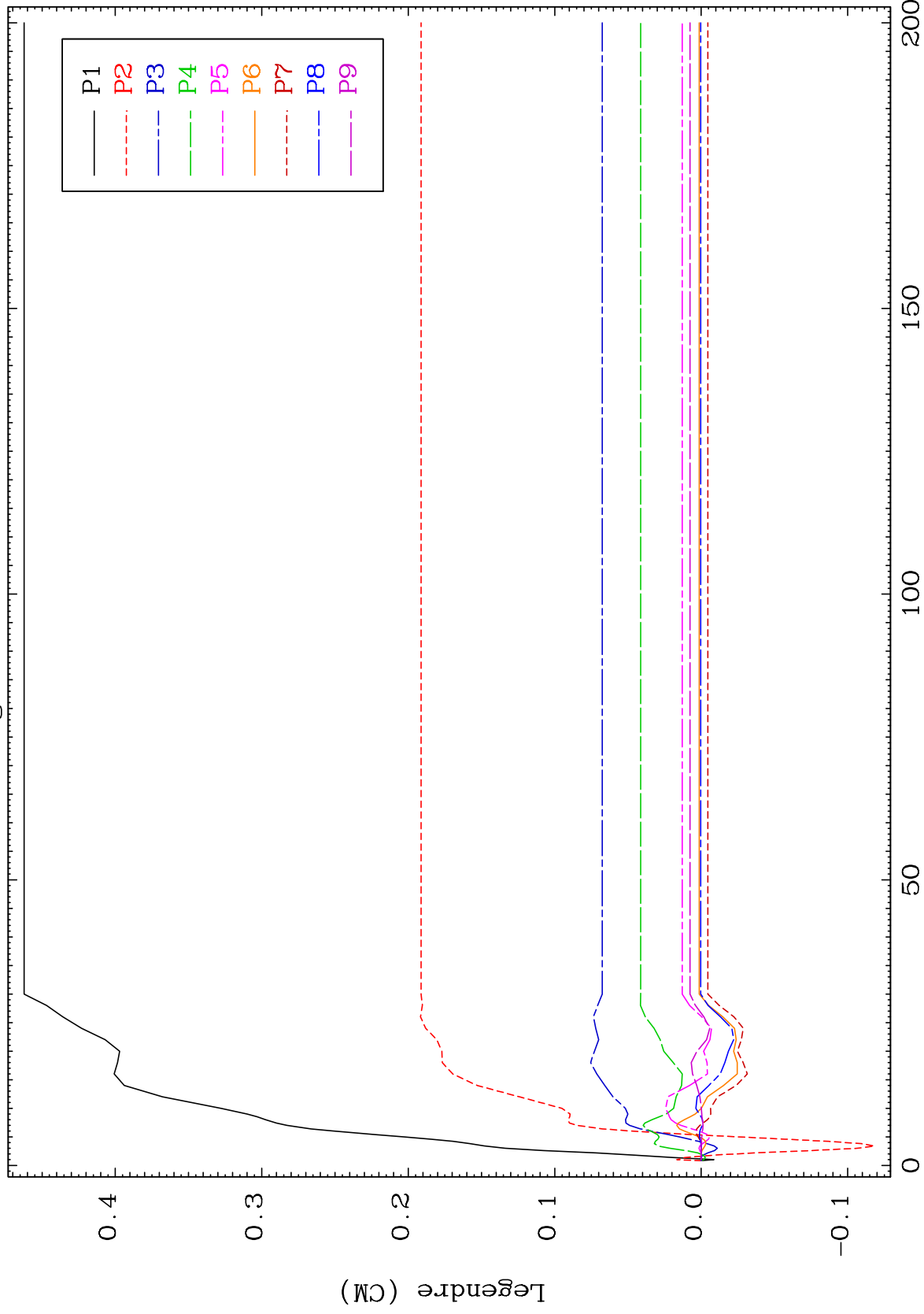
Incident Energy (MeV)

58-Ce-133

MAT 5816

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

58-Ce-133



74

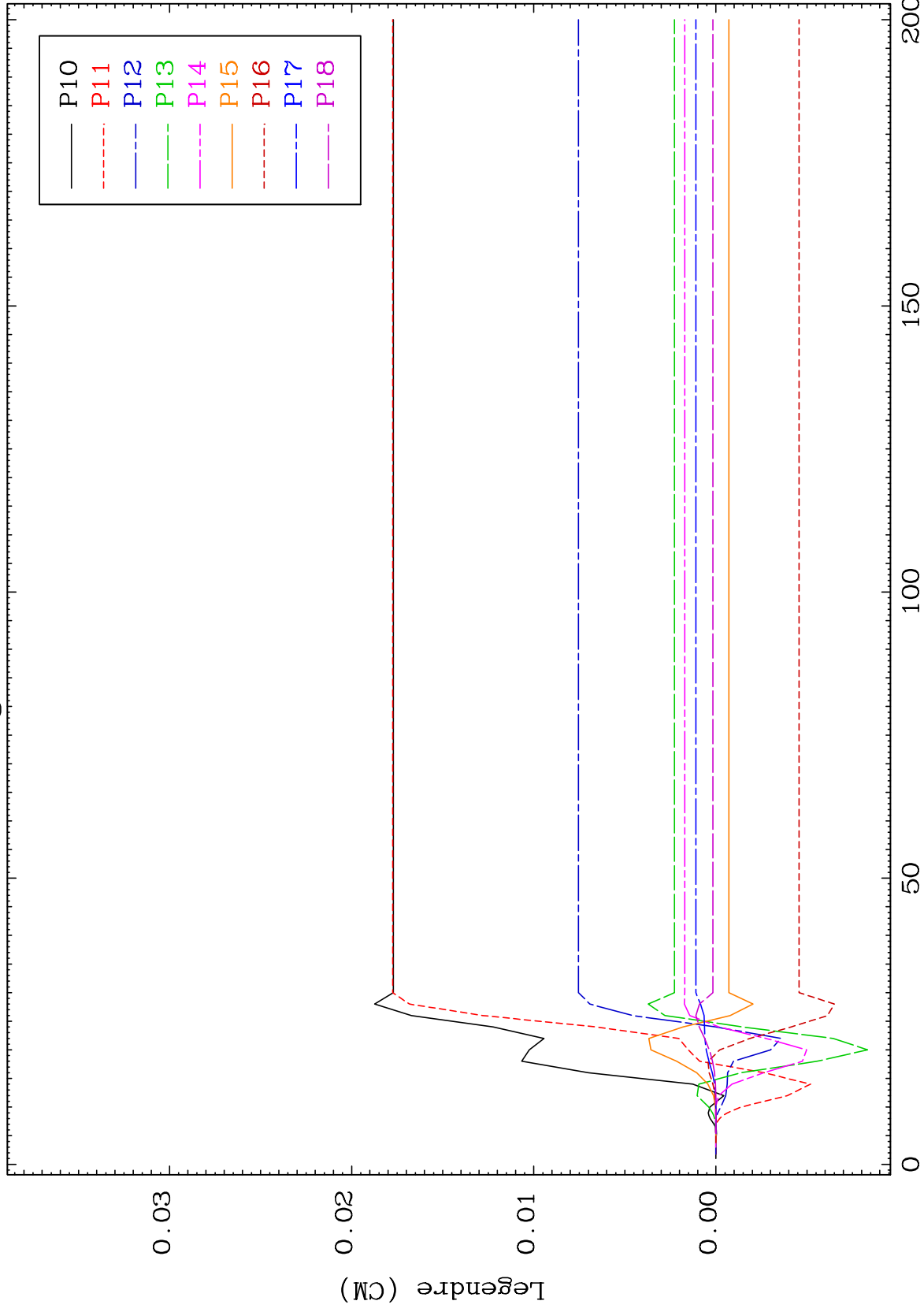
Incident Energy (MeV)

58-Ce-133

MAT 5816

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

58-Ce-133



75

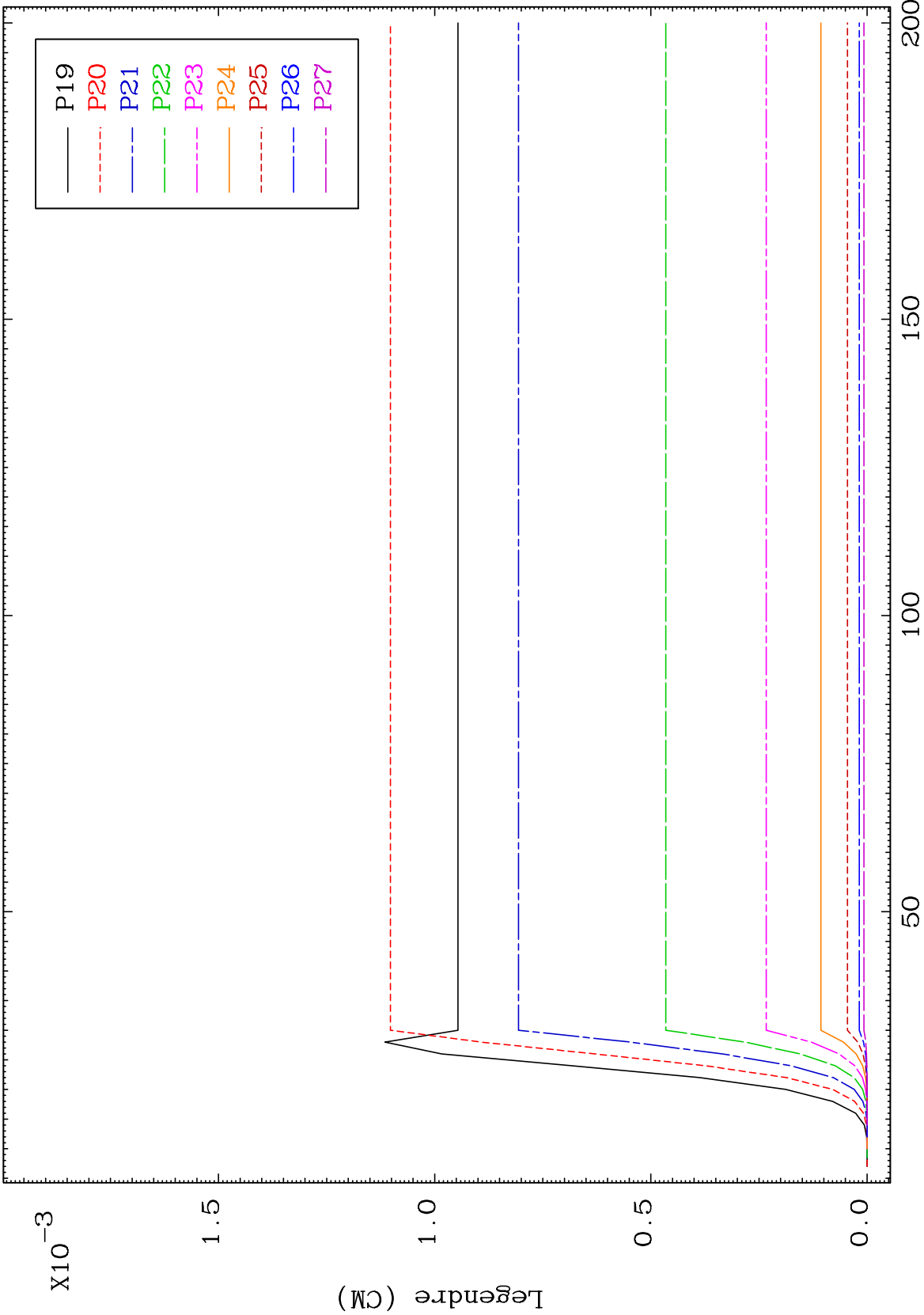
Incident Energy (MeV)

58-Ce-133

MAT 5816

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

58-Ce-133



76

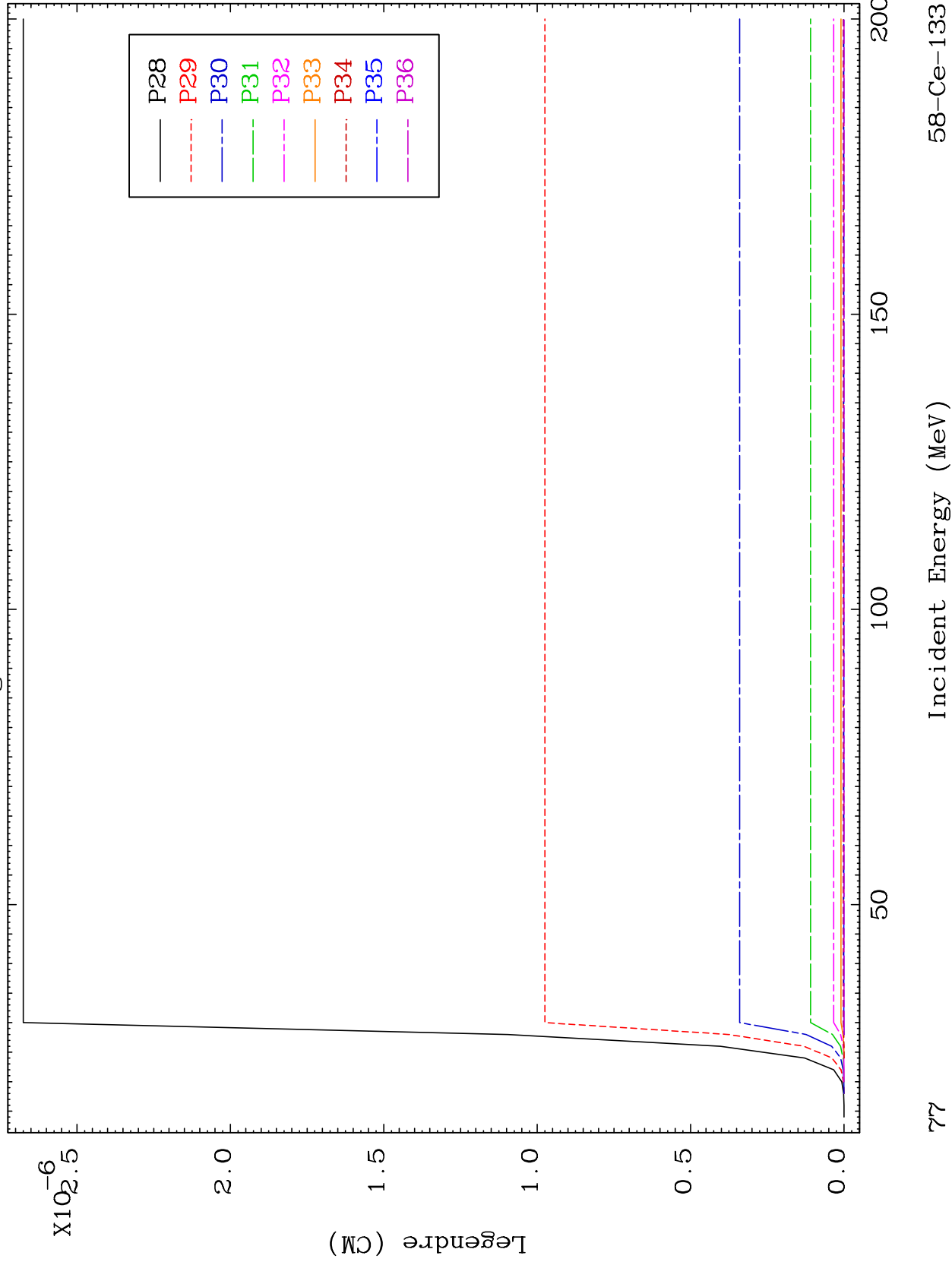
Incident Energy (MeV)

58-Ce-133

MAT 5816

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

58-Ce-133



77

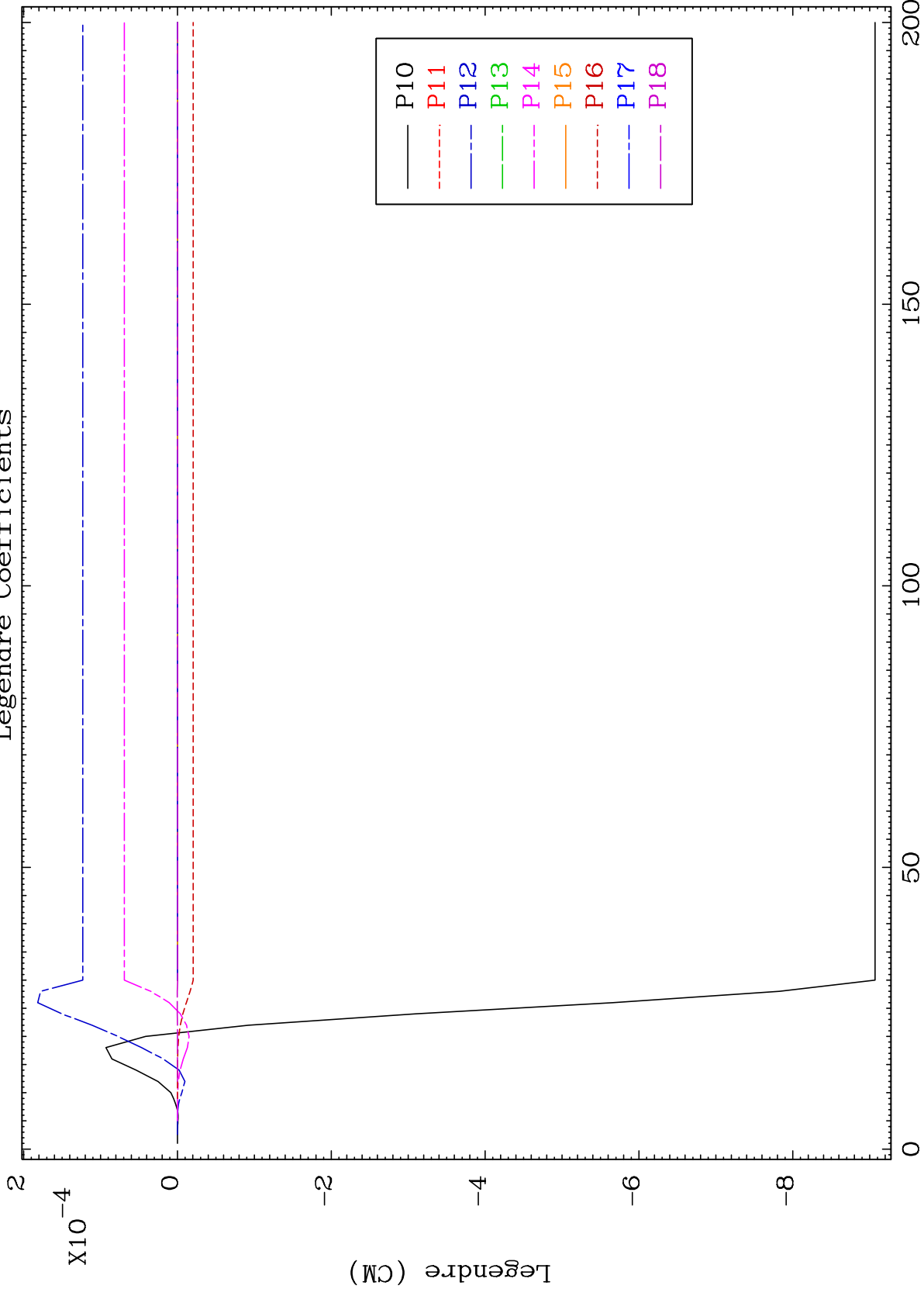
Incident Energy (MeV)

58-Ce-133

MAT 5816

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

58-Ce-133



79

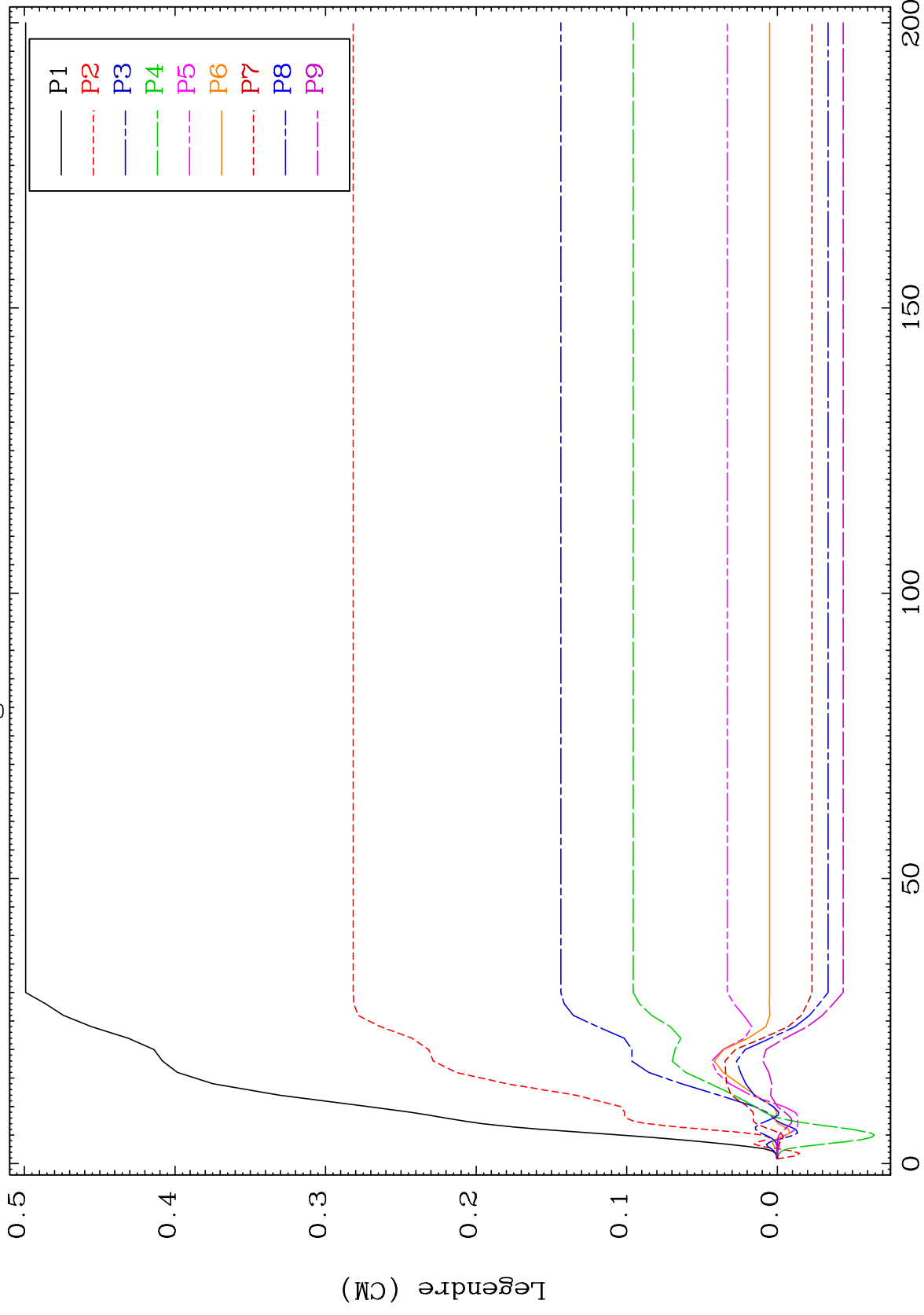
Incident Energy (MeV)

58-Ce-133

MAT 5816

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

58-Ce-133



81

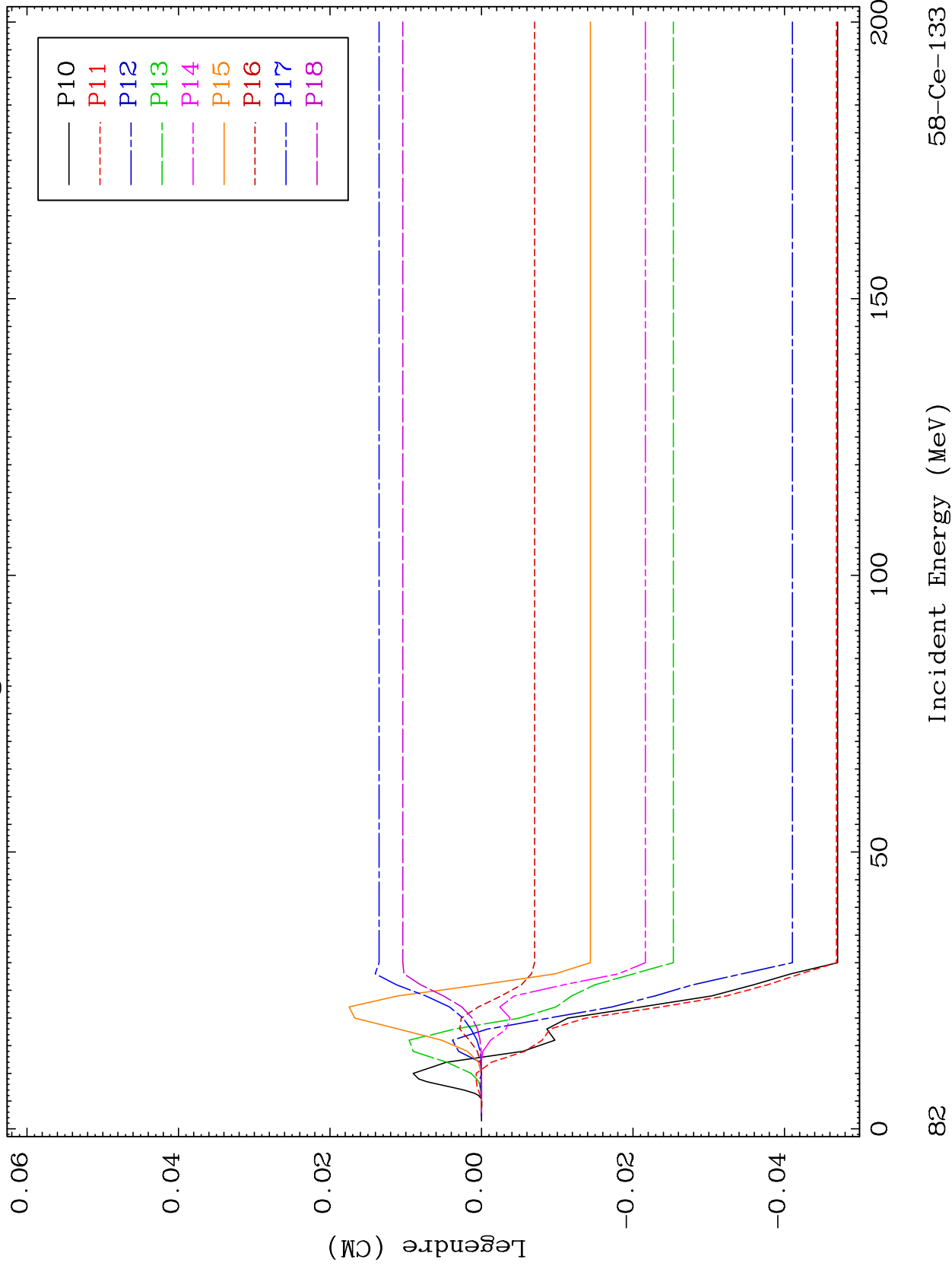
Incident Energy (MeV)

58-Ce-133

MAT 5816

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

58-Ce-133



58-Ce-133

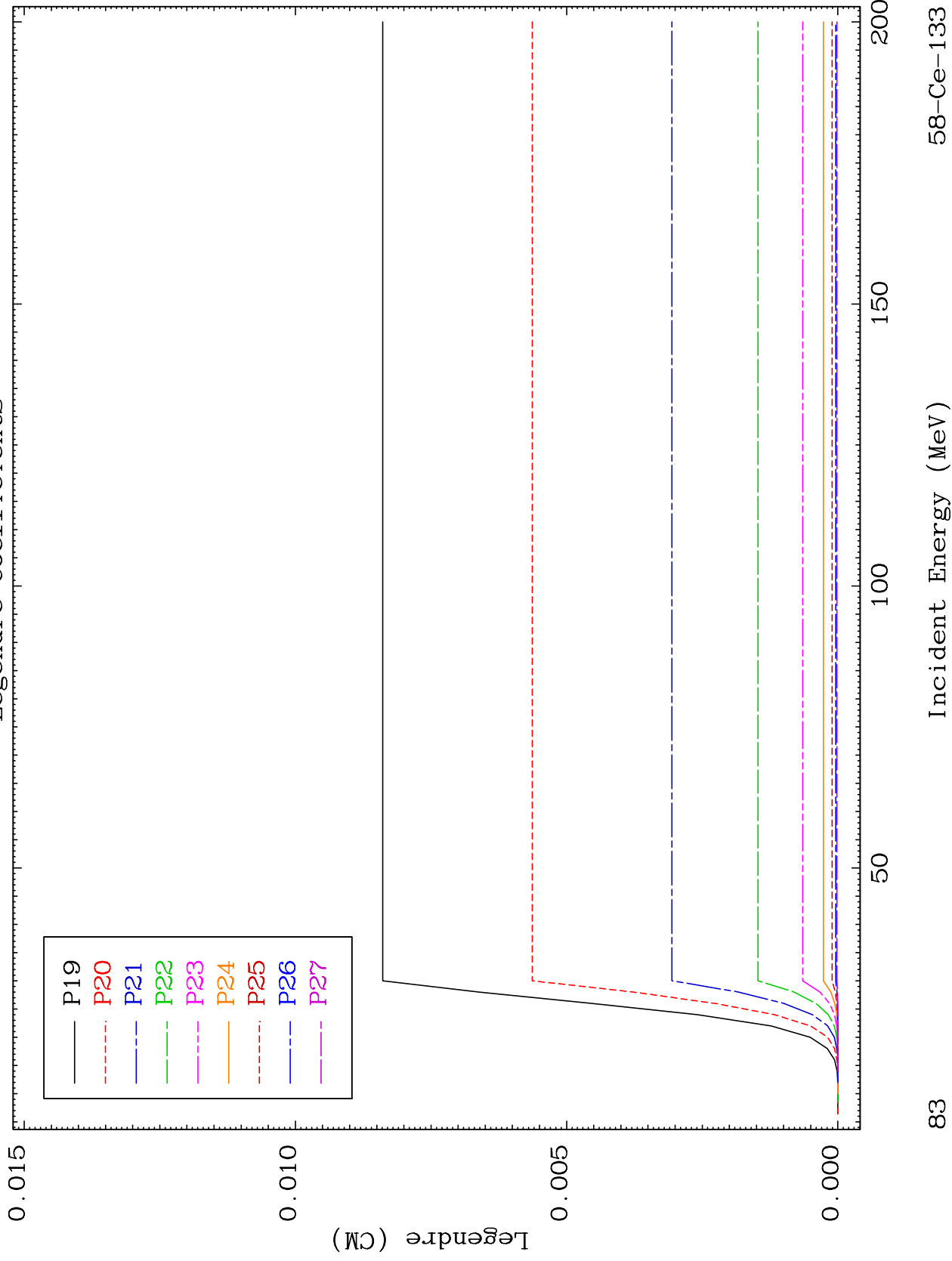
Incident Energy (MeV)

82

MAT 5816

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

58-Ce-133



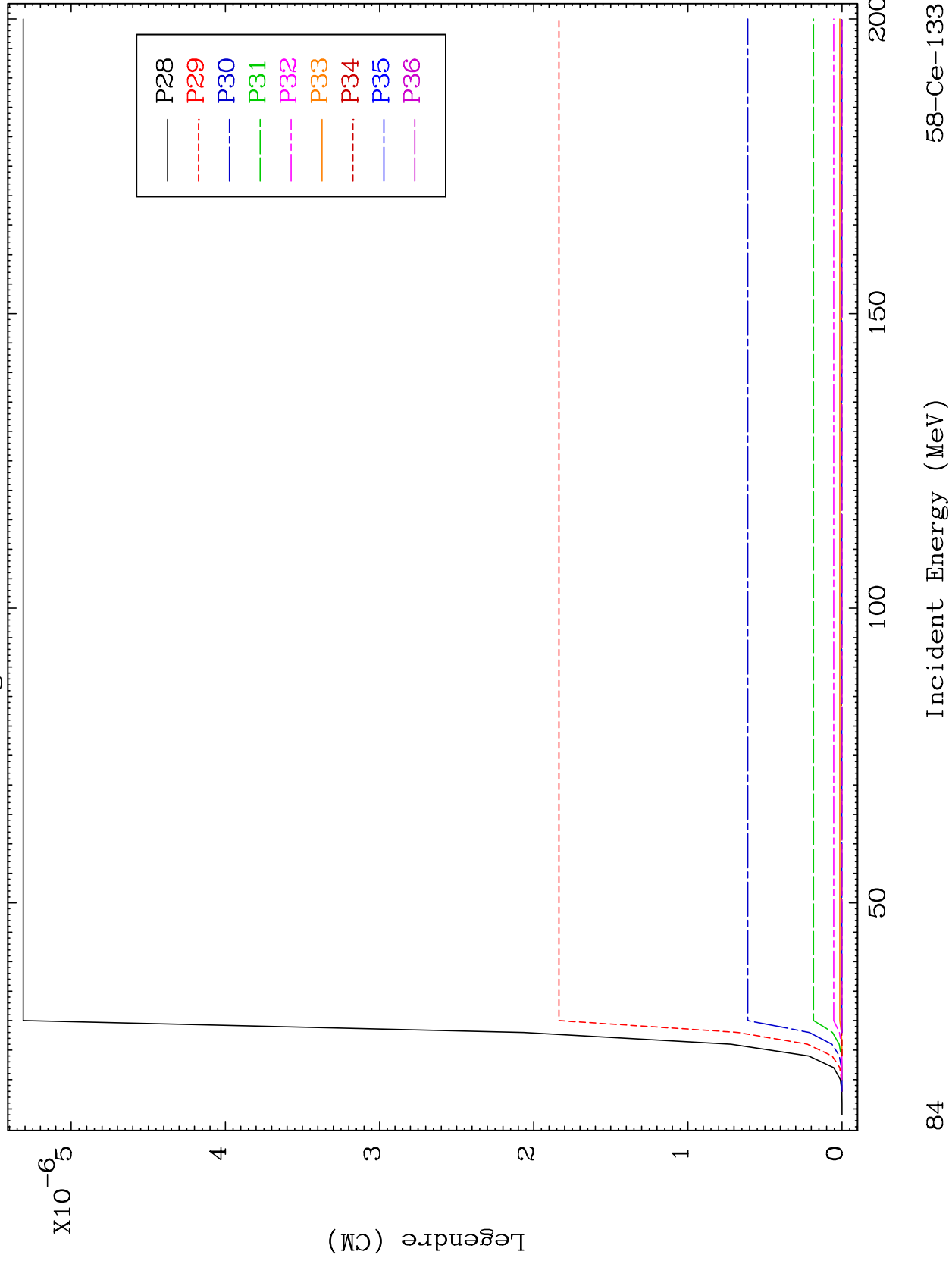
83

58-Ce-133

MAT 5816

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

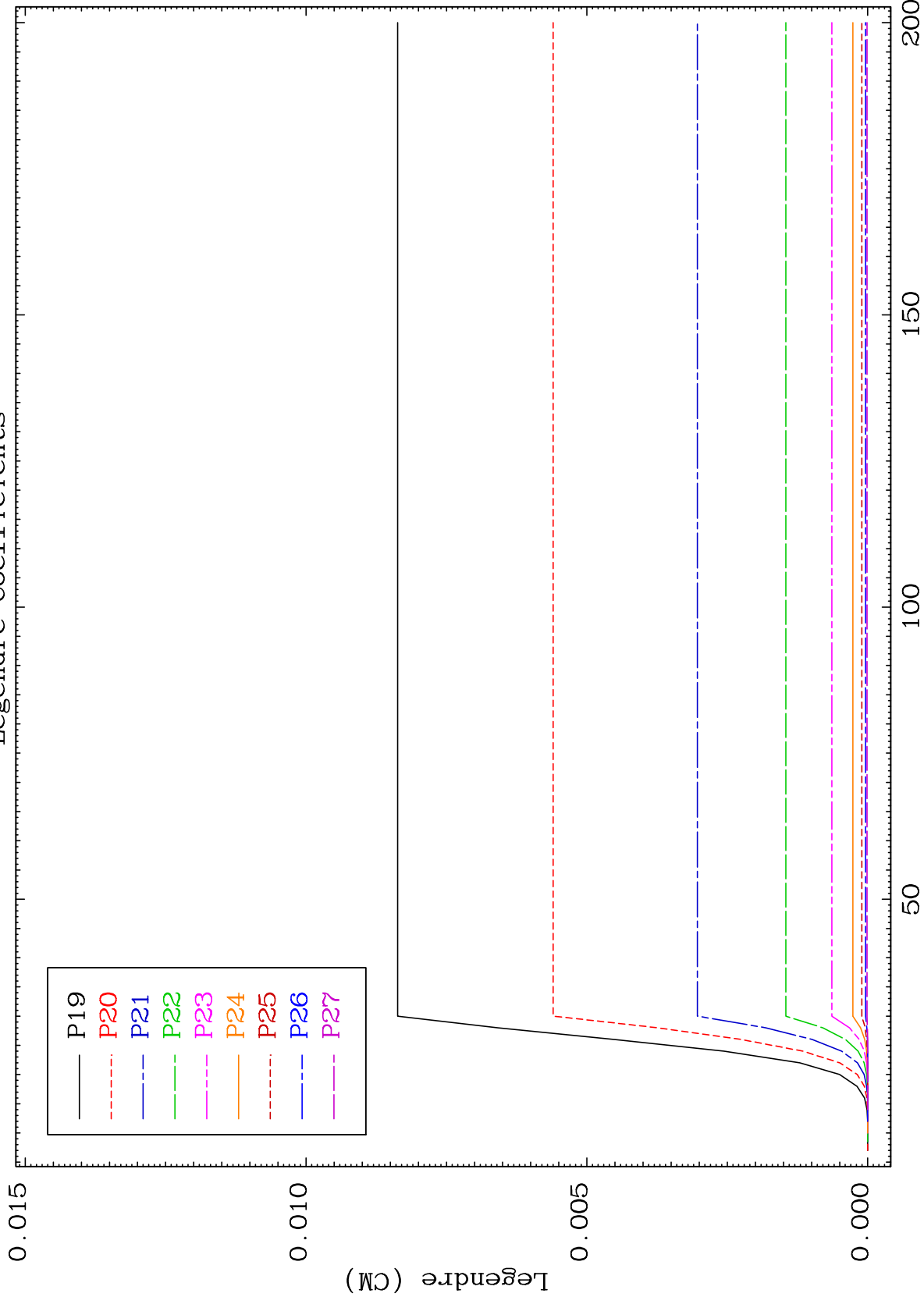
58-Ce-133



MAT 5816

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

58-Ce-133



87

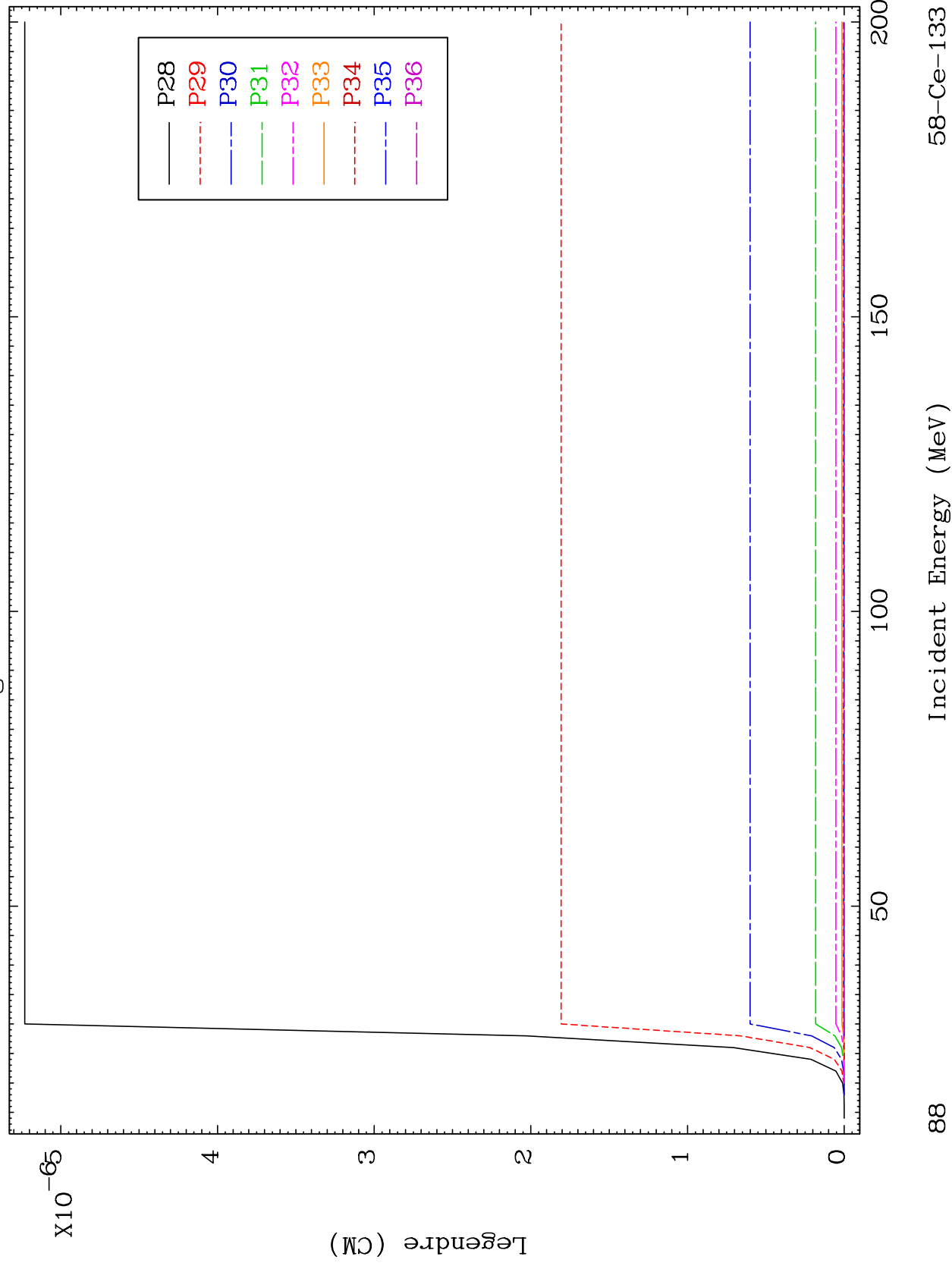
Incident Energy (MeV)

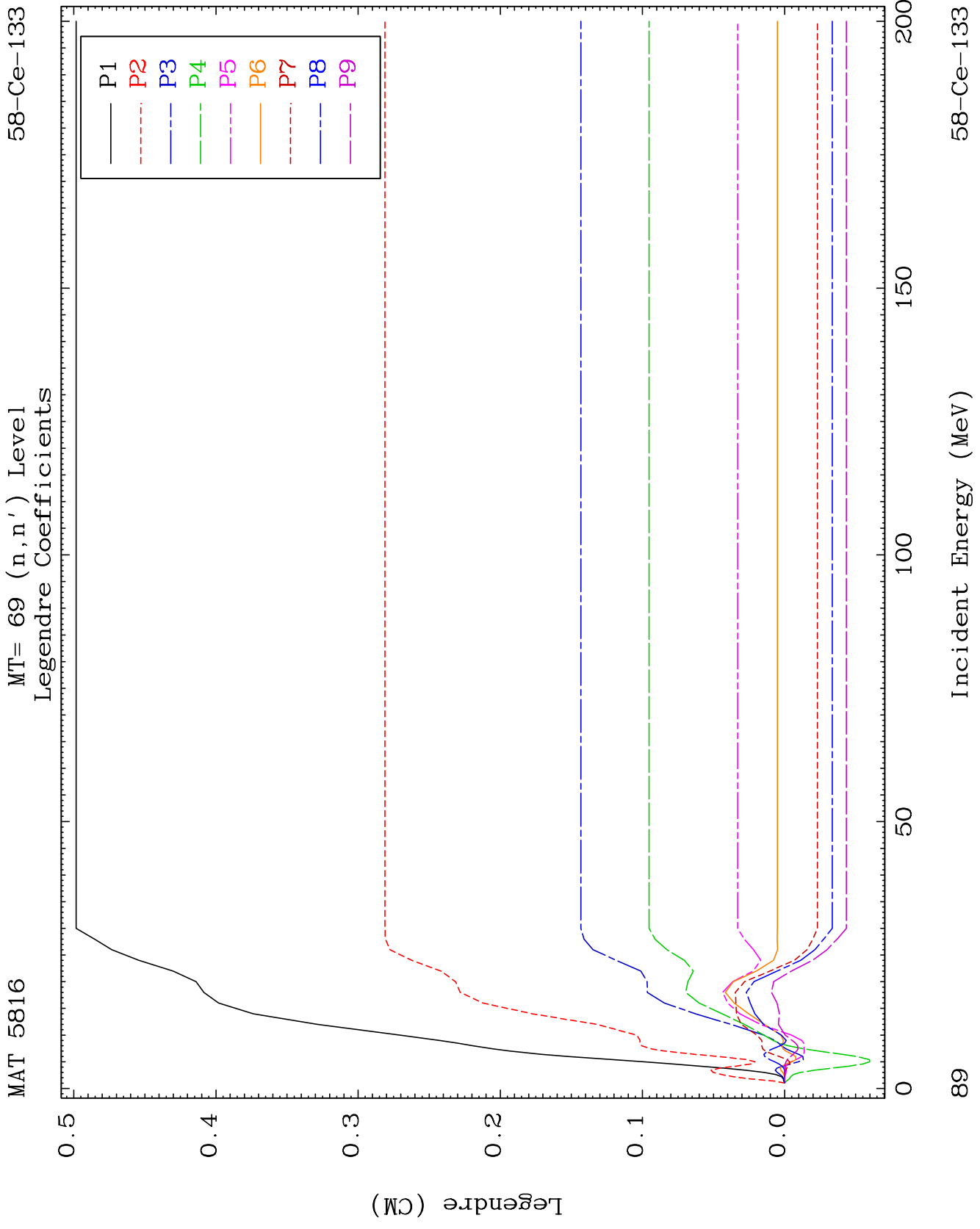
58-Ce-133

MAT 5816

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

58-Ce-133

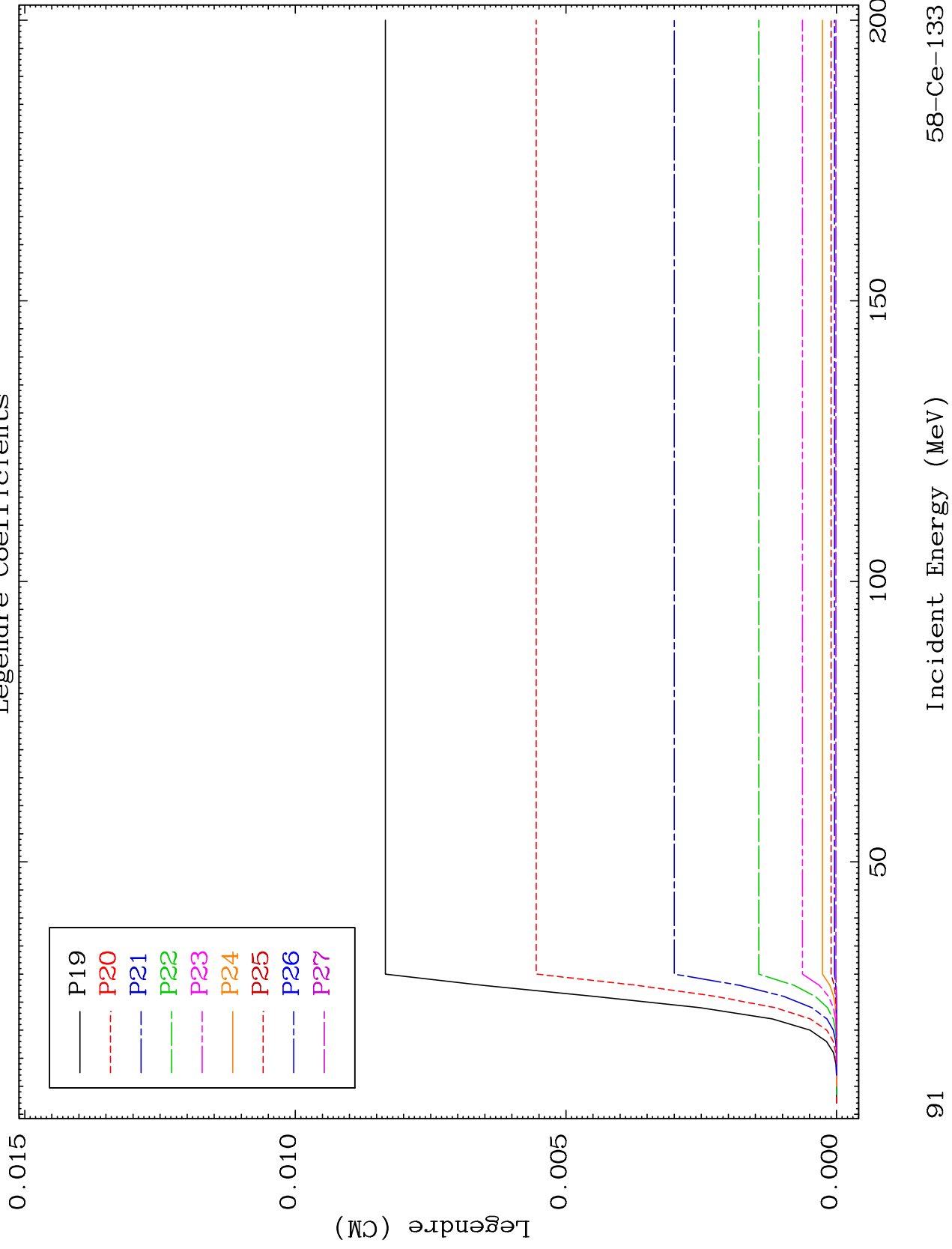




MAT 5816

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

58-Ce-133



91

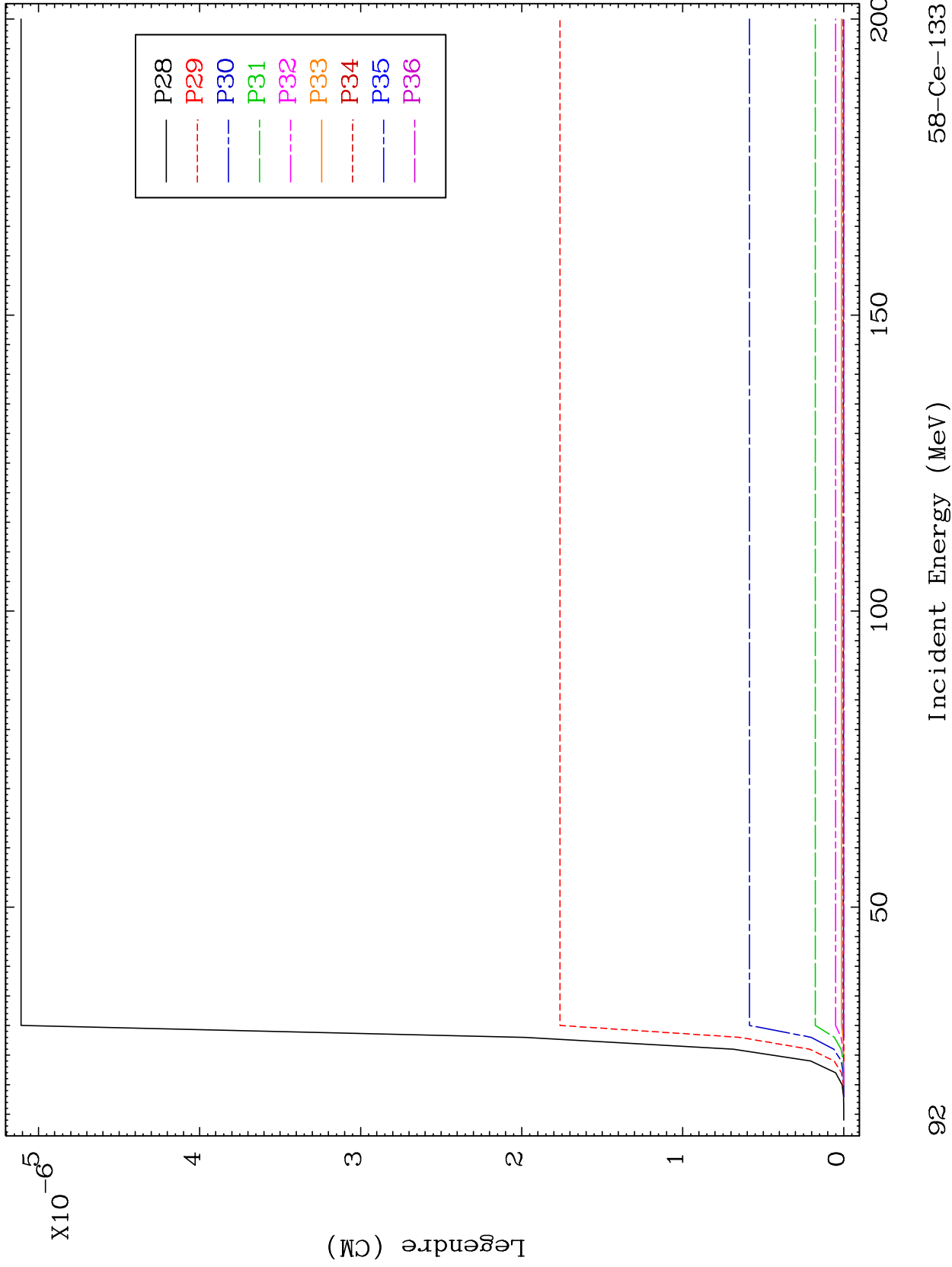
Incident Energy (MeV)

58-Ce-133

MAT 5816

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

58-Ce-133



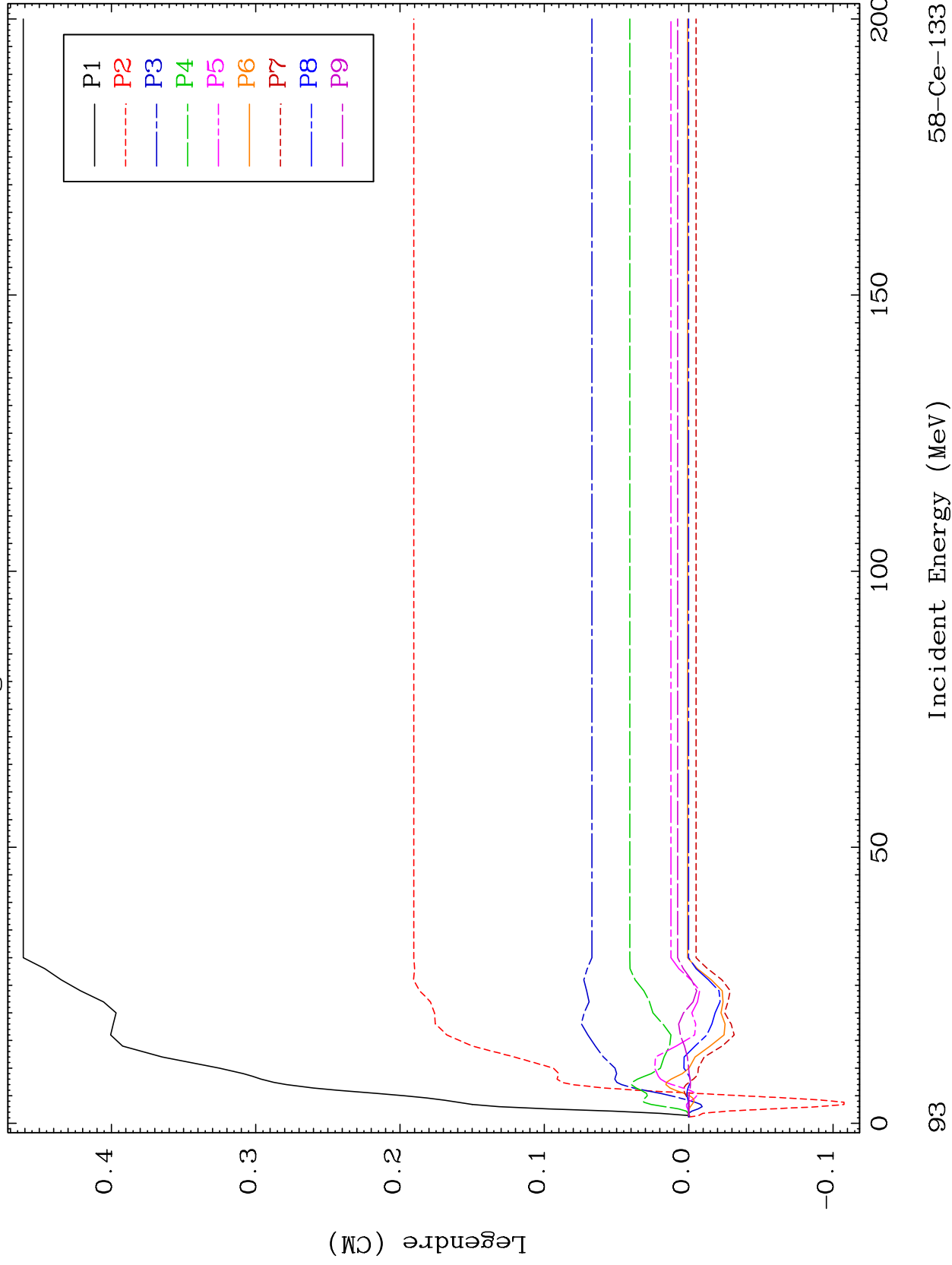
92

58-Ce-133

MAT 5816

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

58-Ce-133

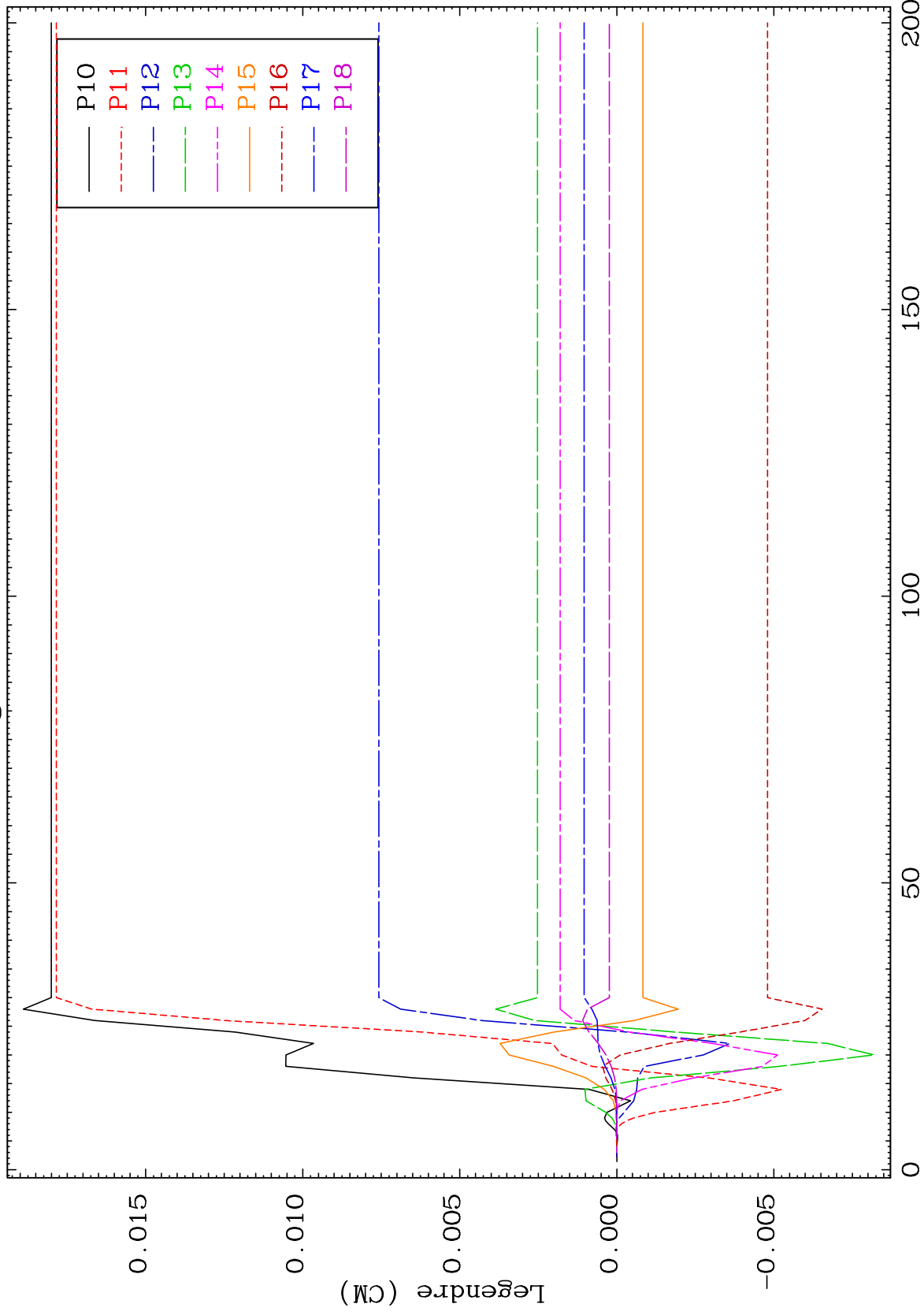


58-Ce-133

MAT 5816

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

58-Ce-133



94

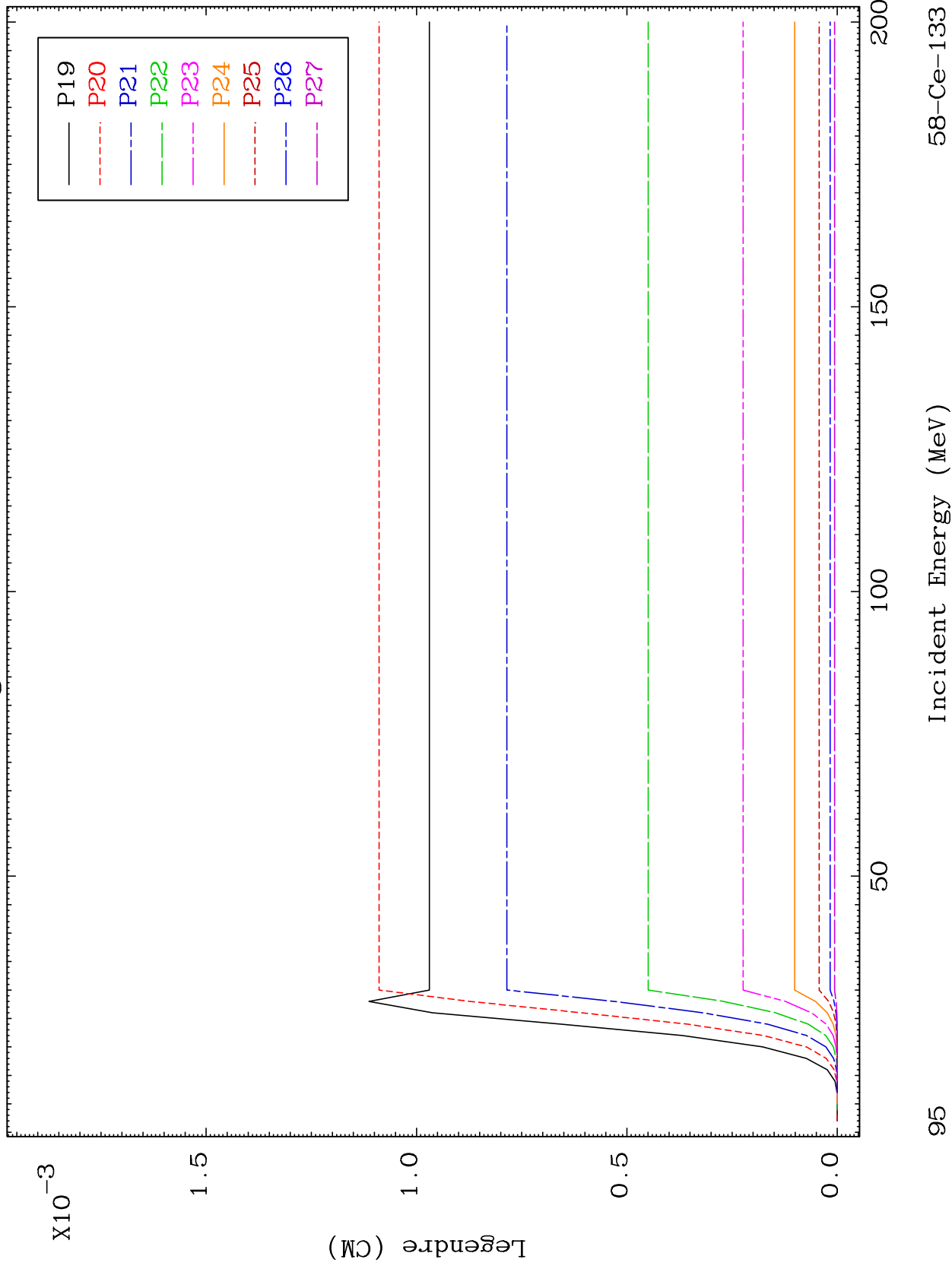
Incident Energy (MeV)

58-Ce-133

MAT 5816

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

58-Ce-133



95

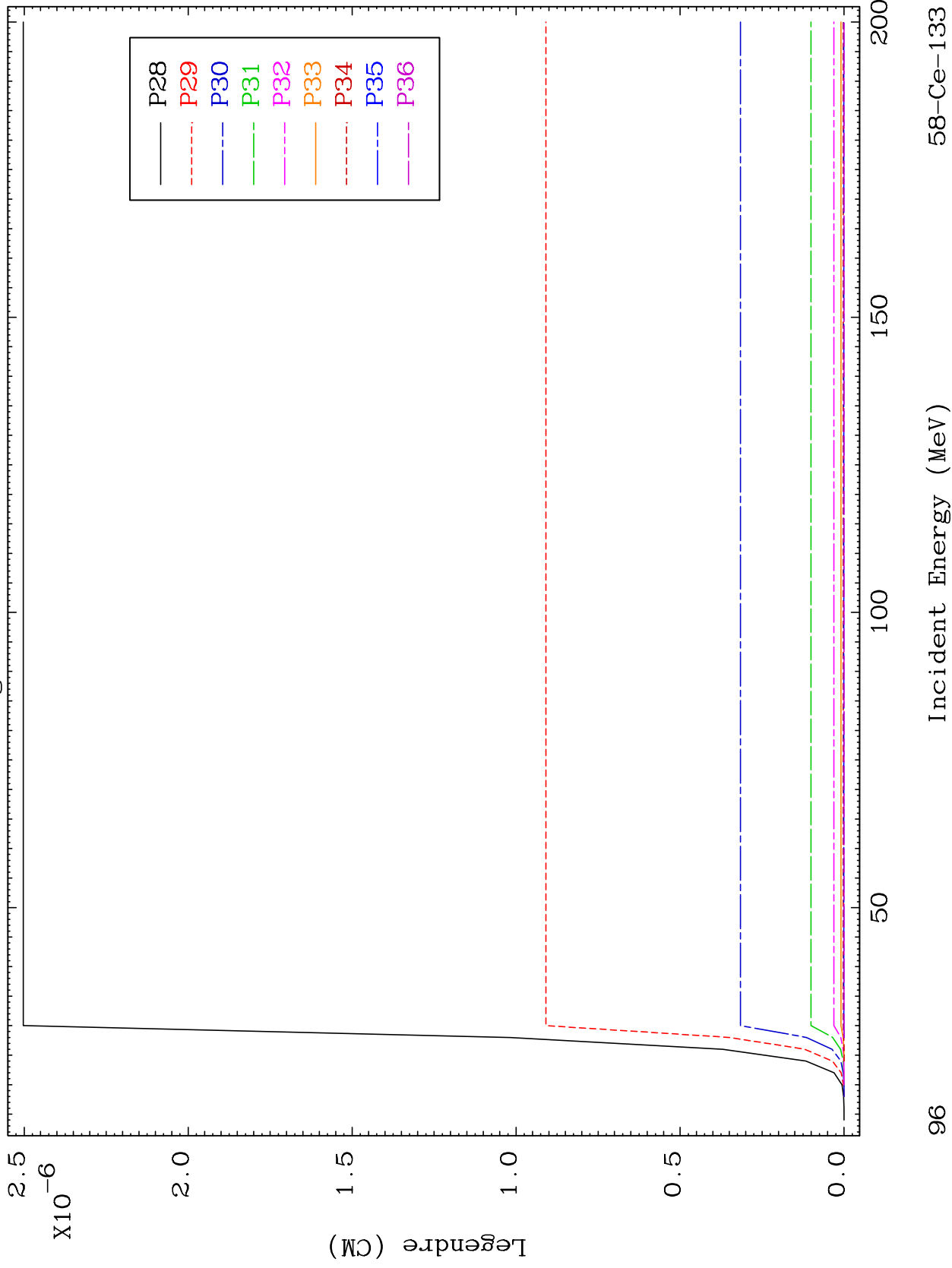
Incident Energy (MeV)

58-Ce-133

MAT 5816

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

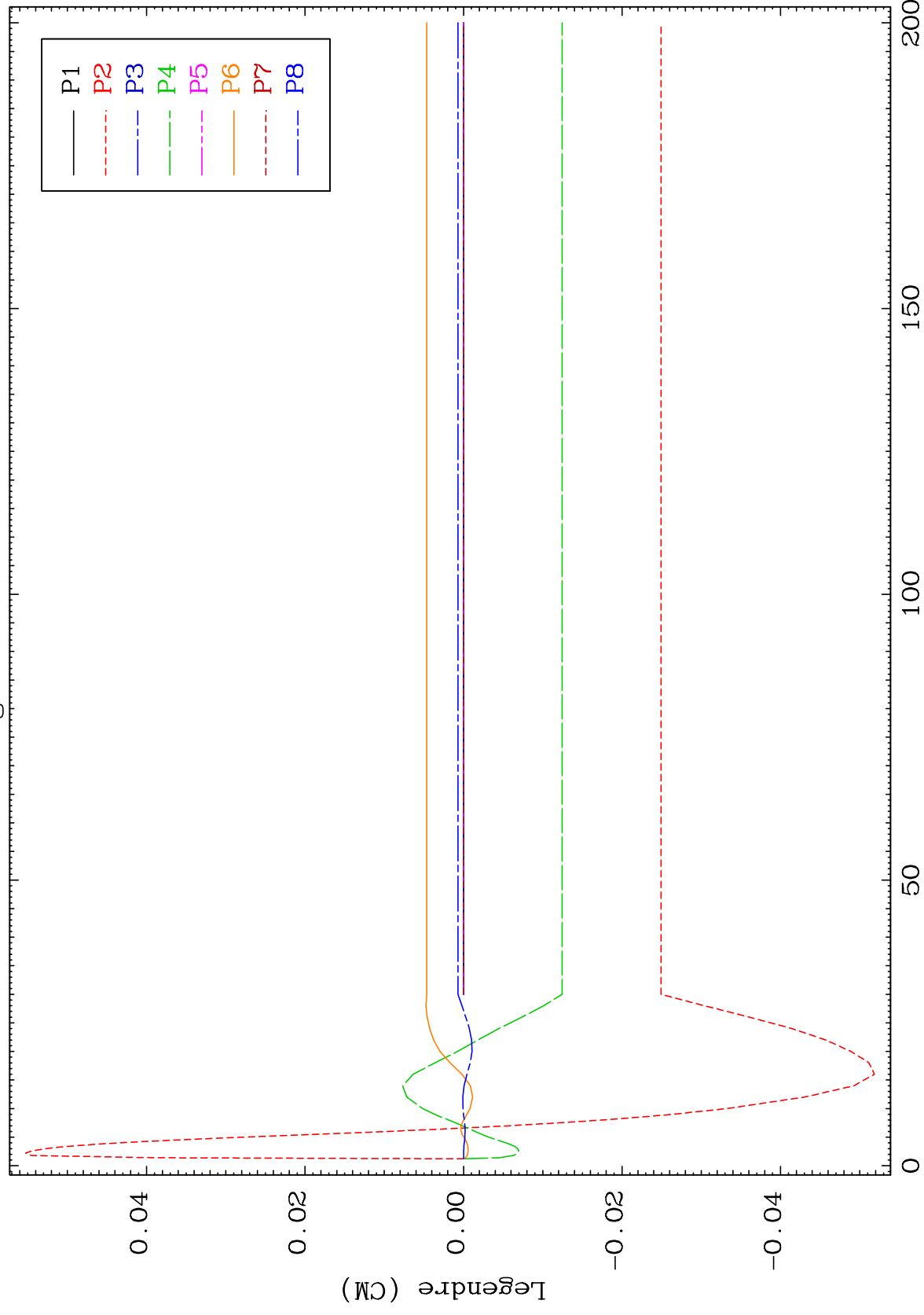
58-Ce-133



MAT 5816

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

58-Ce-133



97

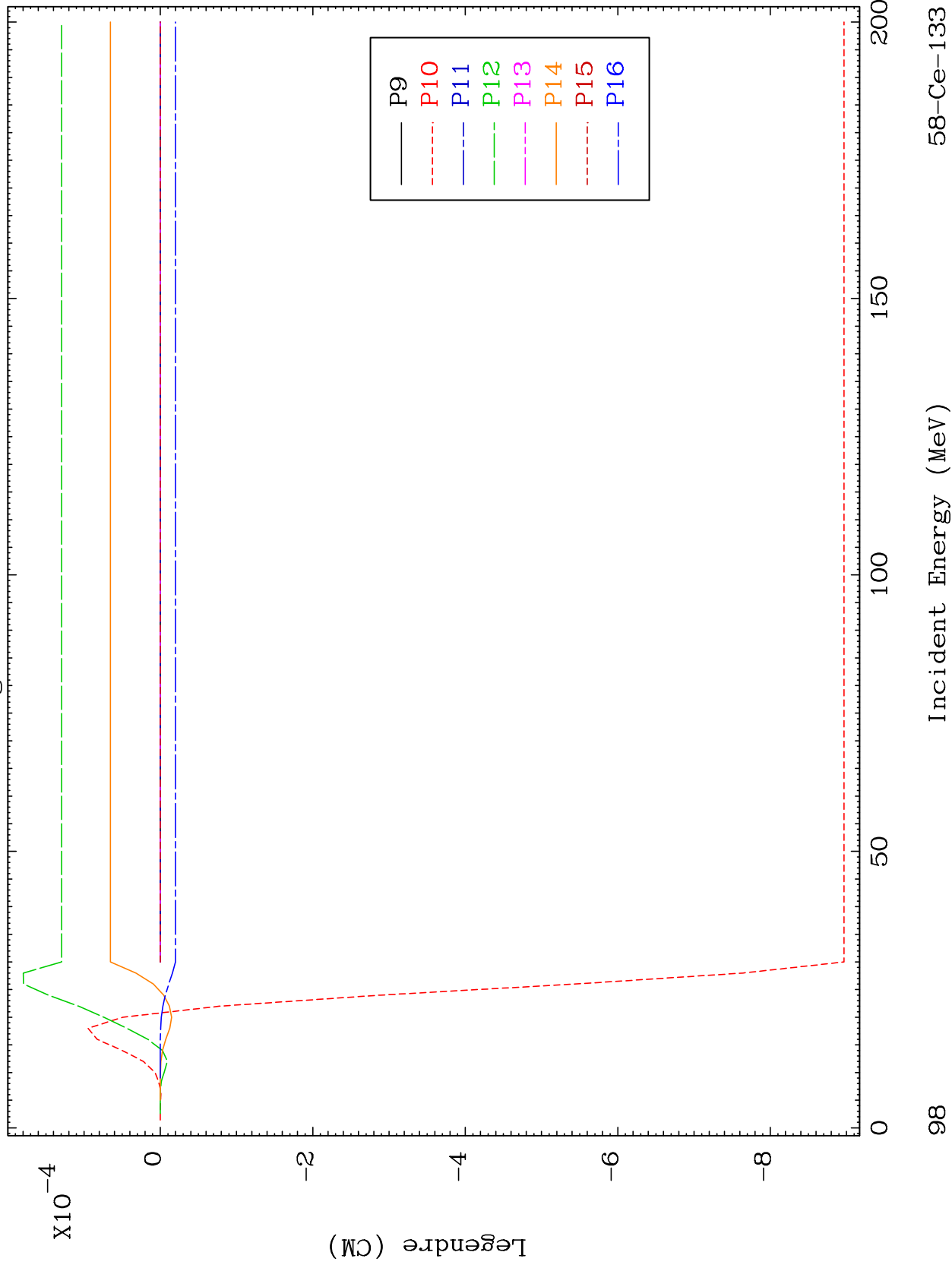
Incident Energy (MeV)

58-Ce-133

MAT 5816

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

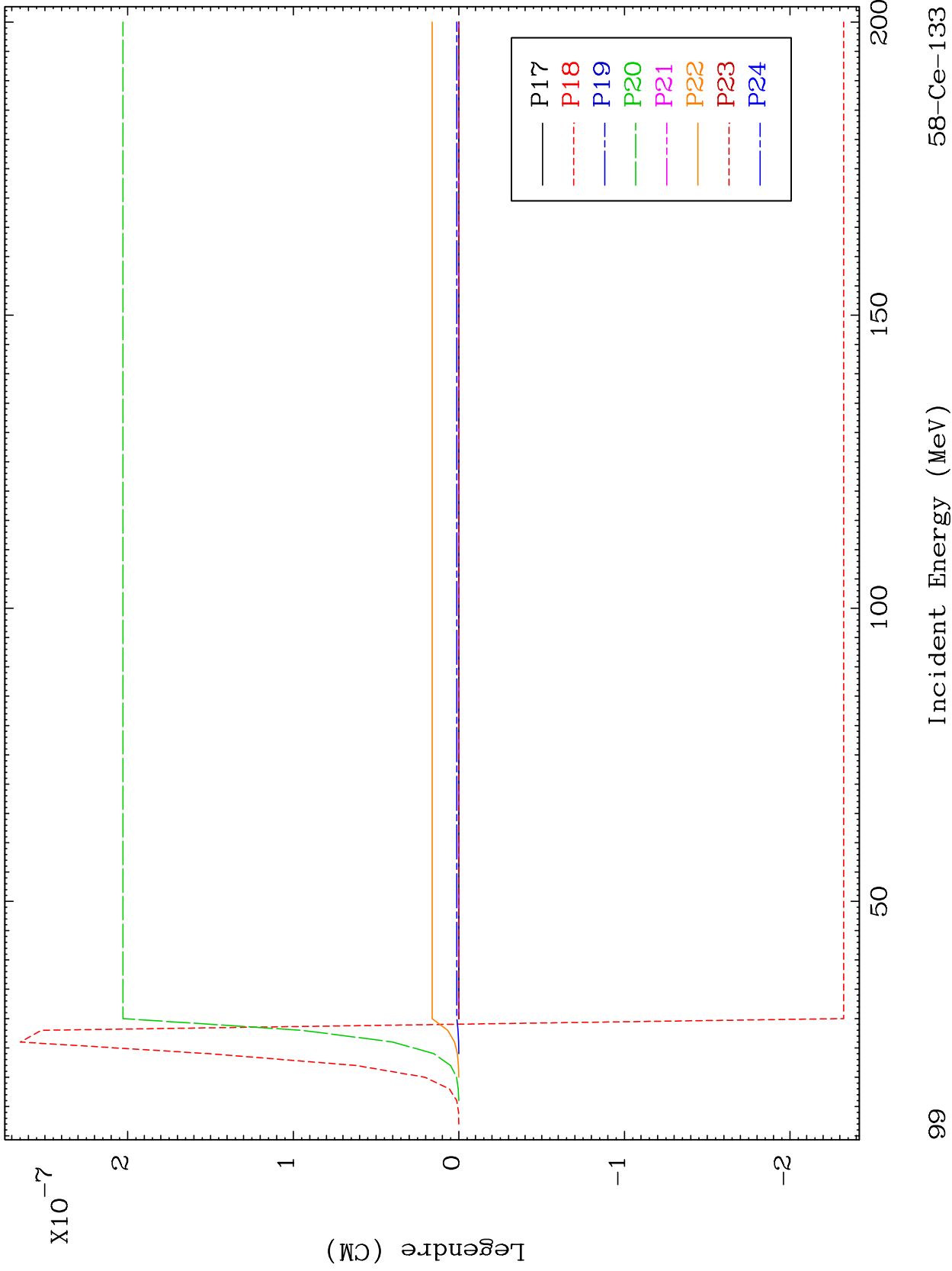
58-Ce-133



98

Incident Energy (MeV)

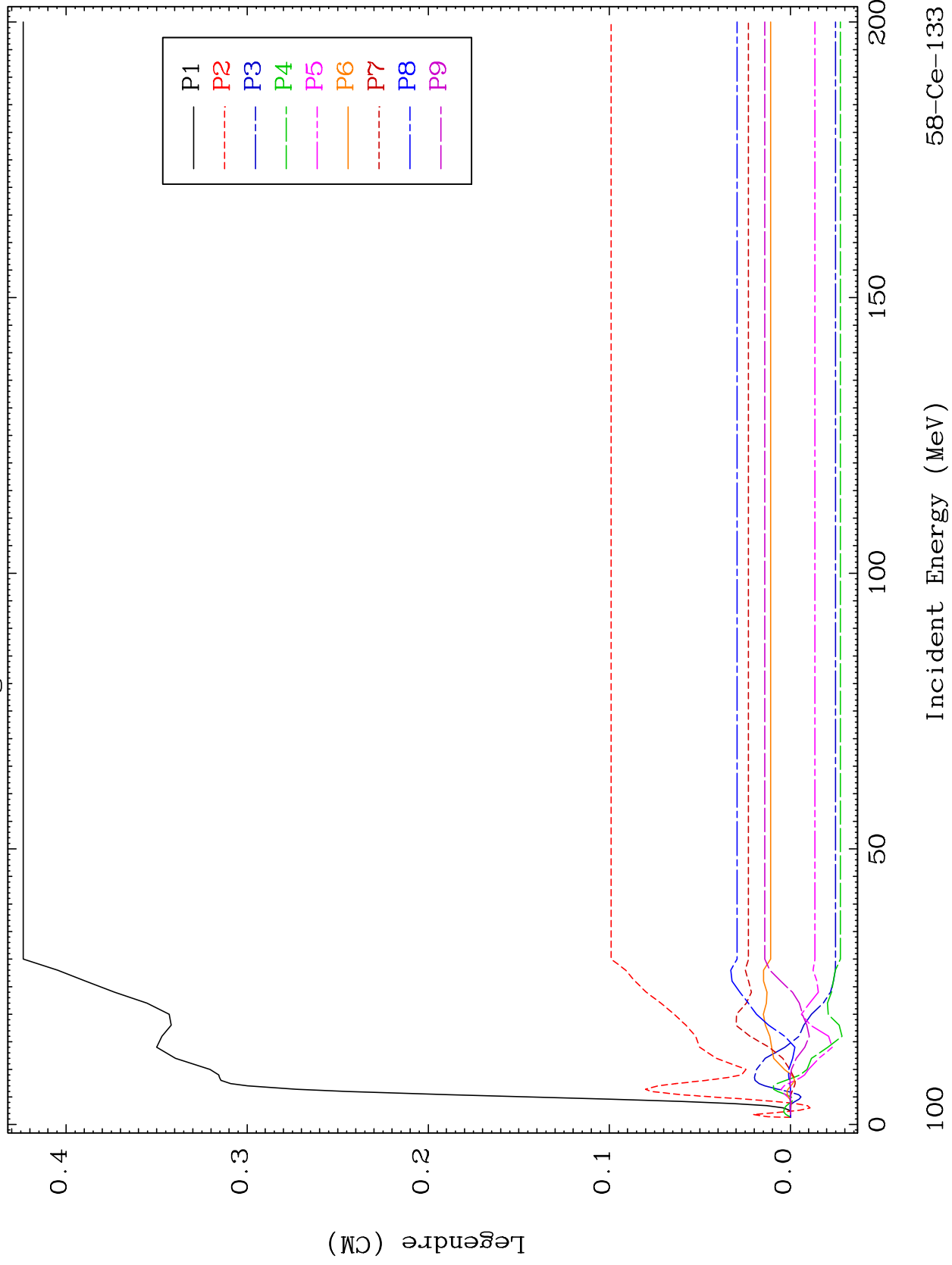
58-Ce-133



MAT 5816

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

58-Ce-133



58-Ce-133

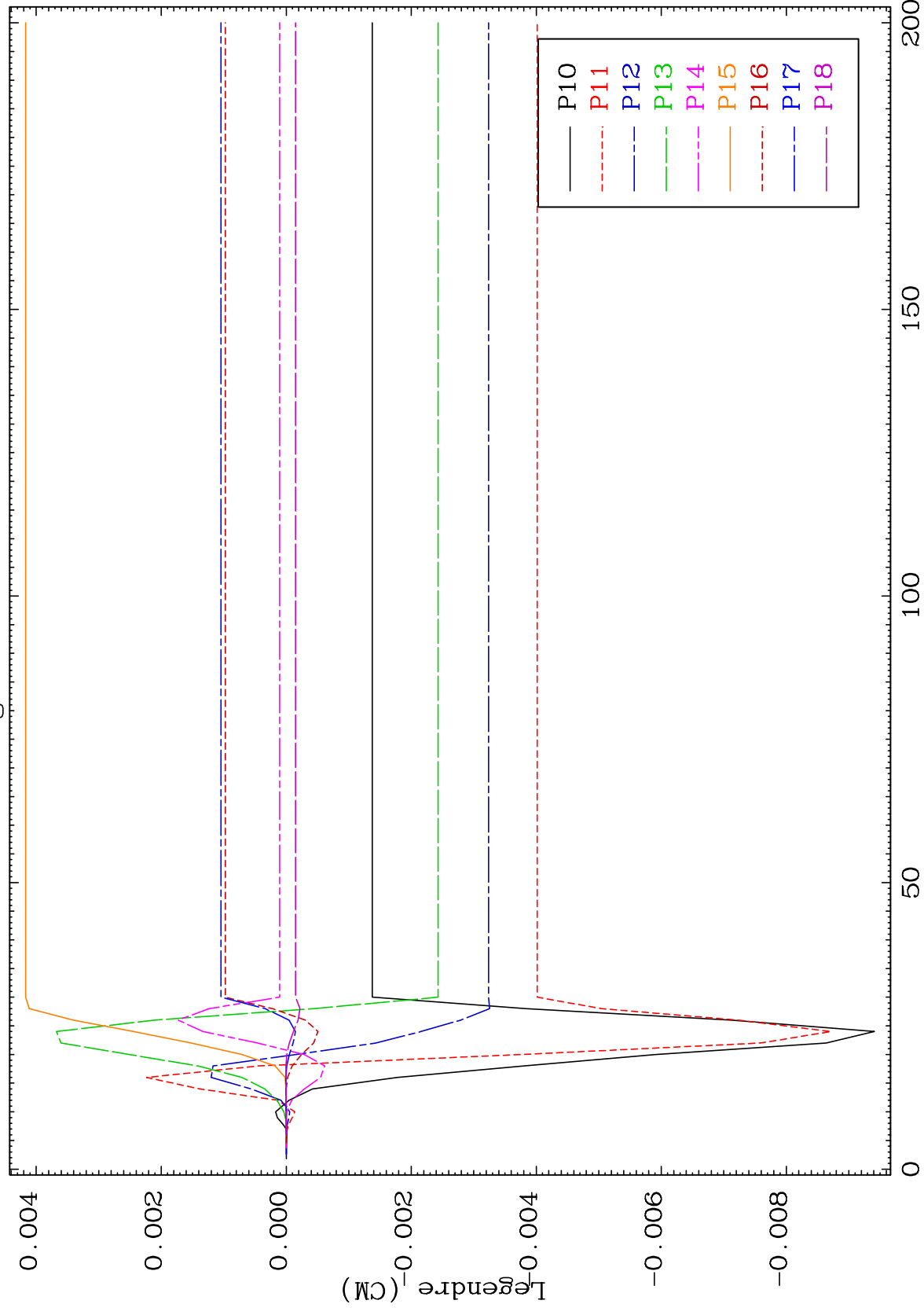
Incident Energy (MeV)

100

MAT 5816

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

58-Ce-133



101

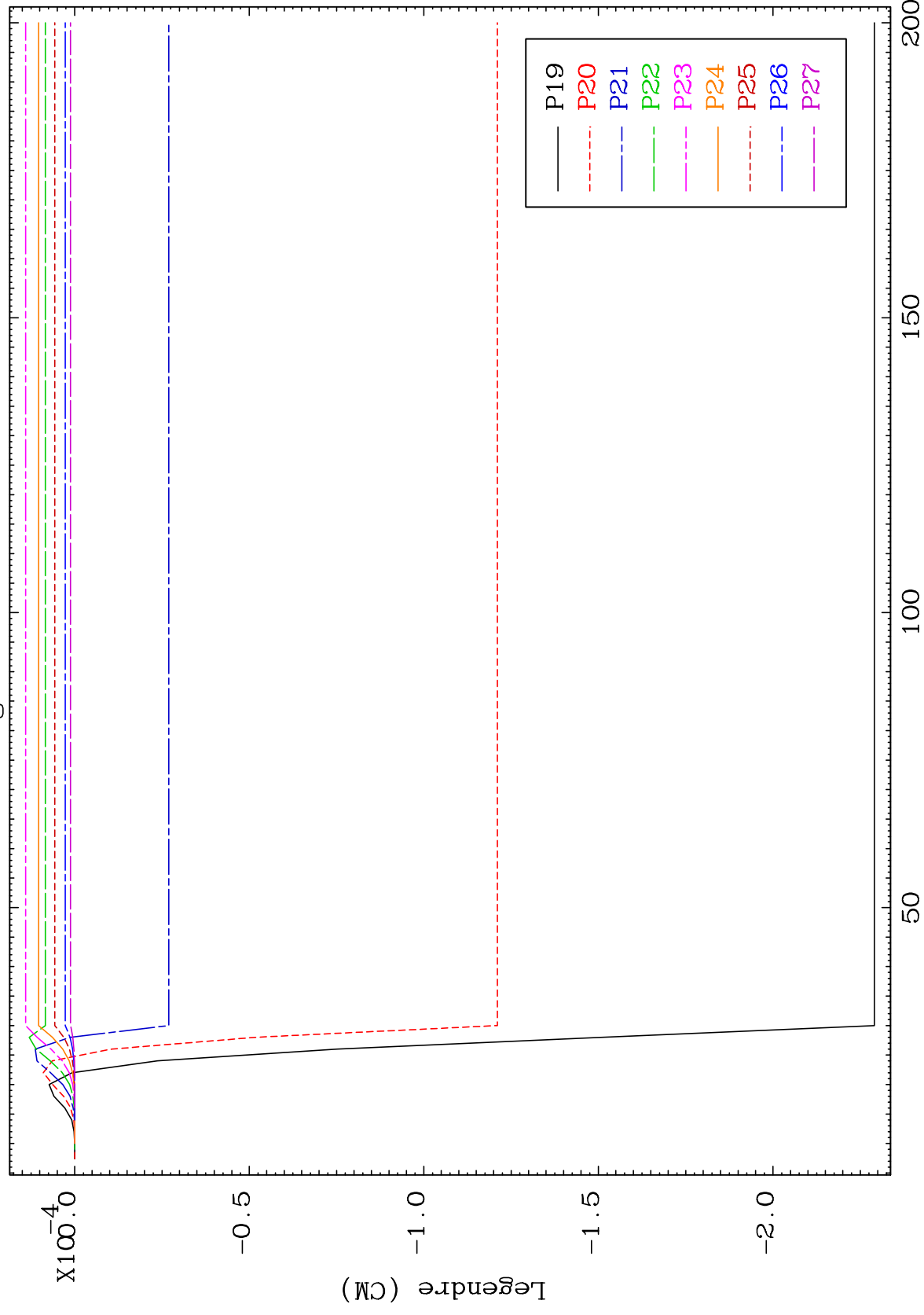
Incident Energy (MeV)

58-Ce-133

MAT 5816

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

58-Ce-133



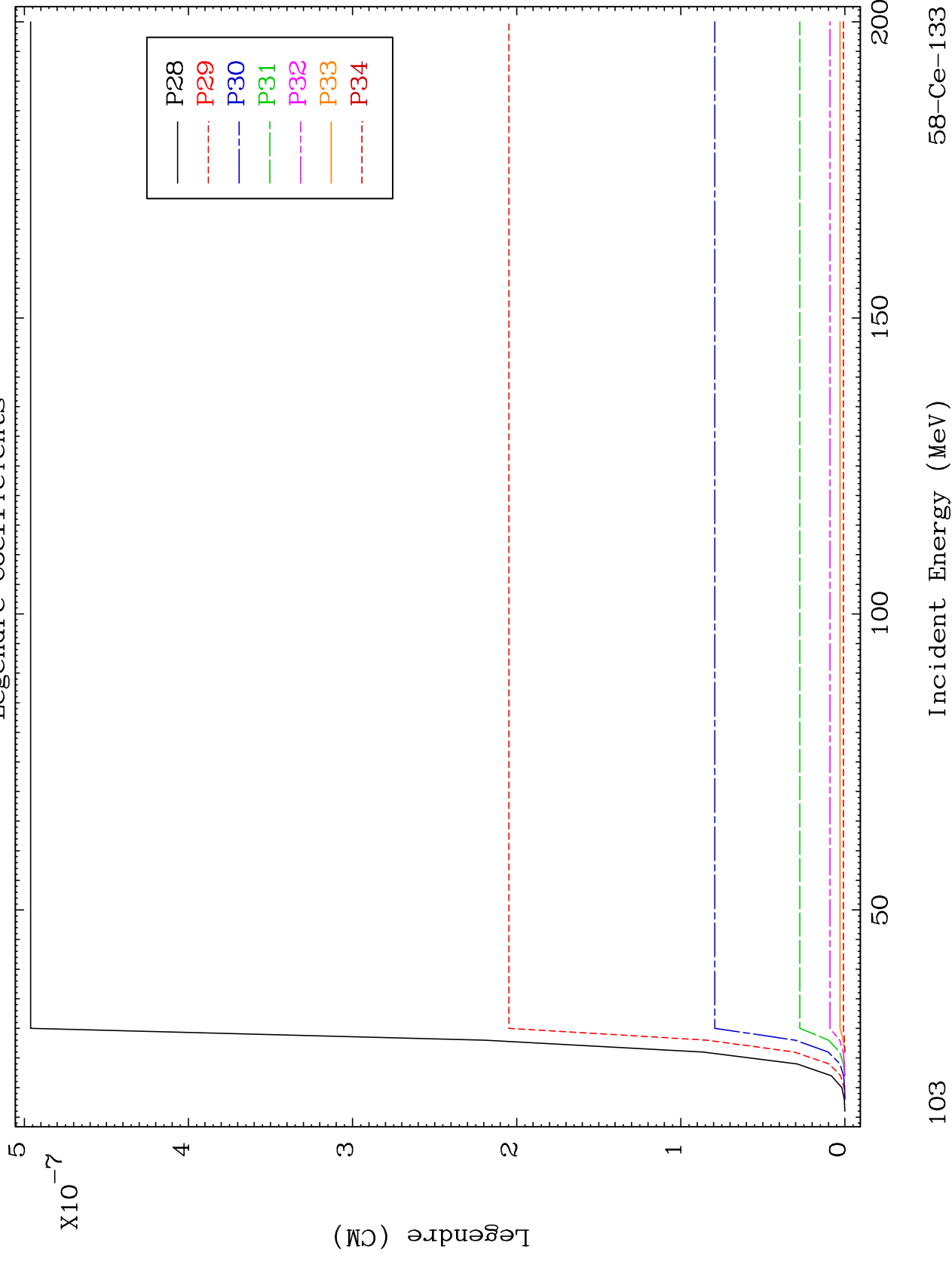
102

58-Ce-133

MAT 5816

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

58-Ce-133



103

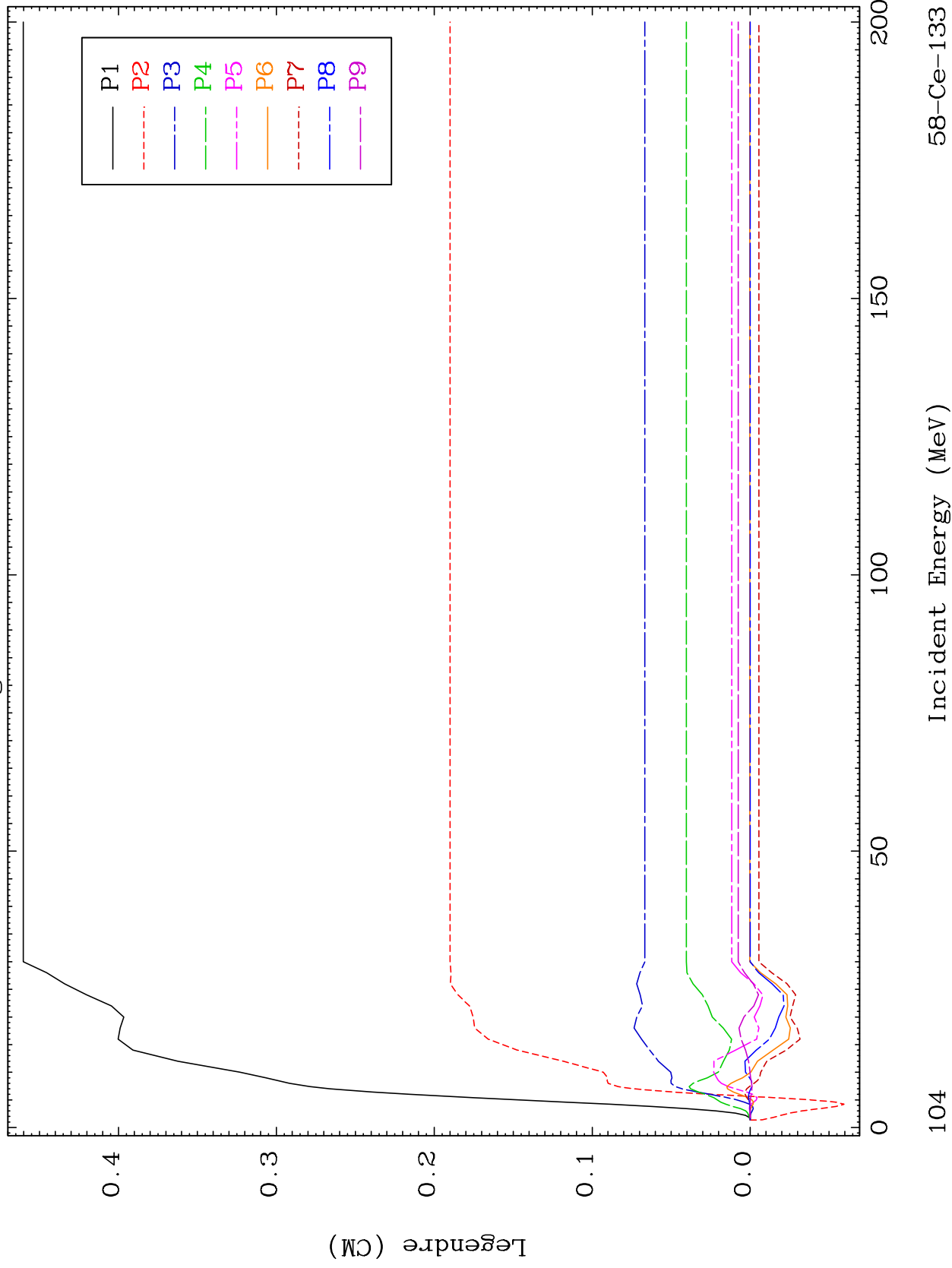
Incident Energy (MeV)

58-Ce-133

MAT 5816

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

58-Ce-133



58-Ce-133

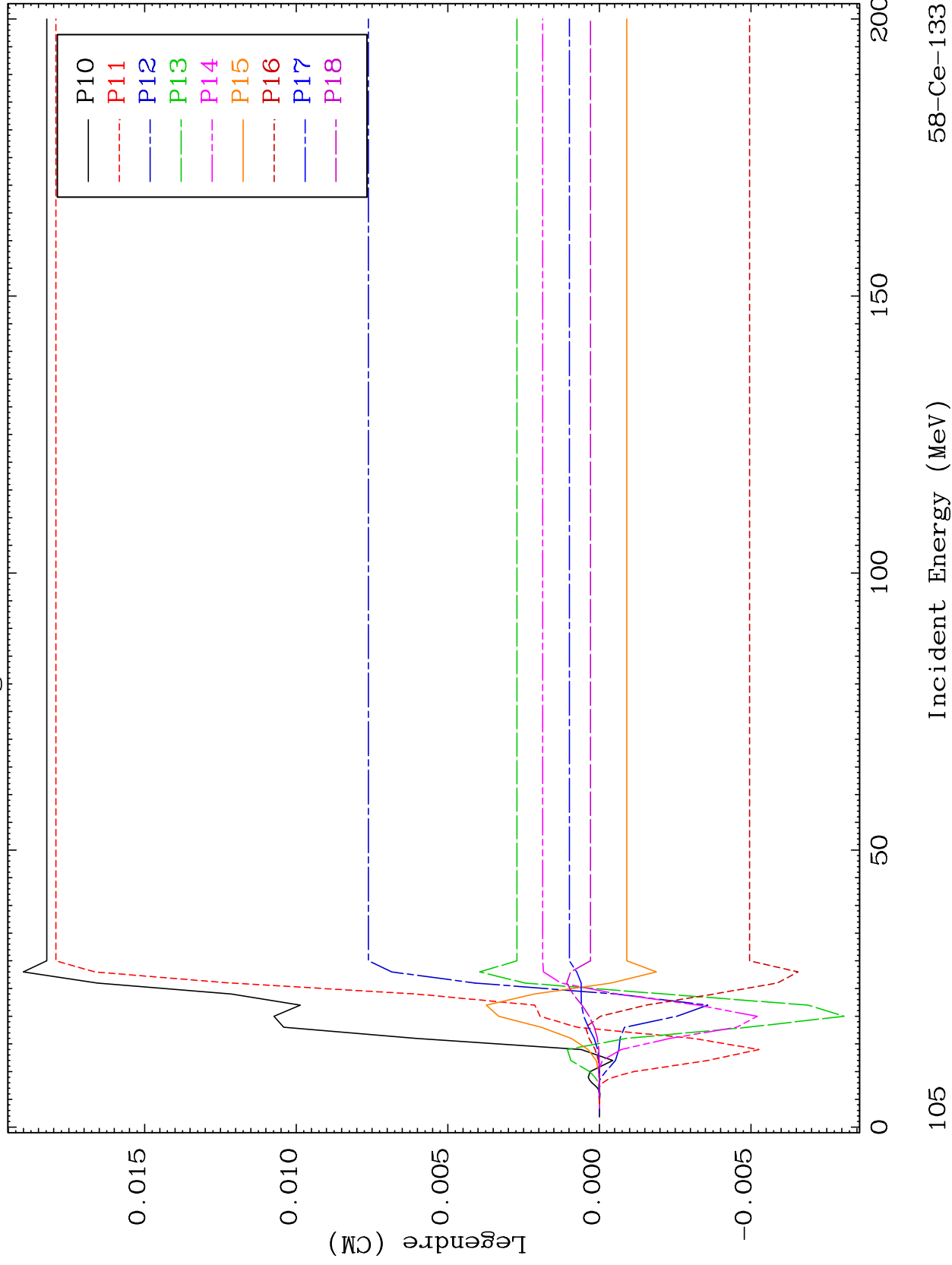
Incident Energy (MeV)

104

MAT 5816

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

58-Ce-133



58-Ce-133

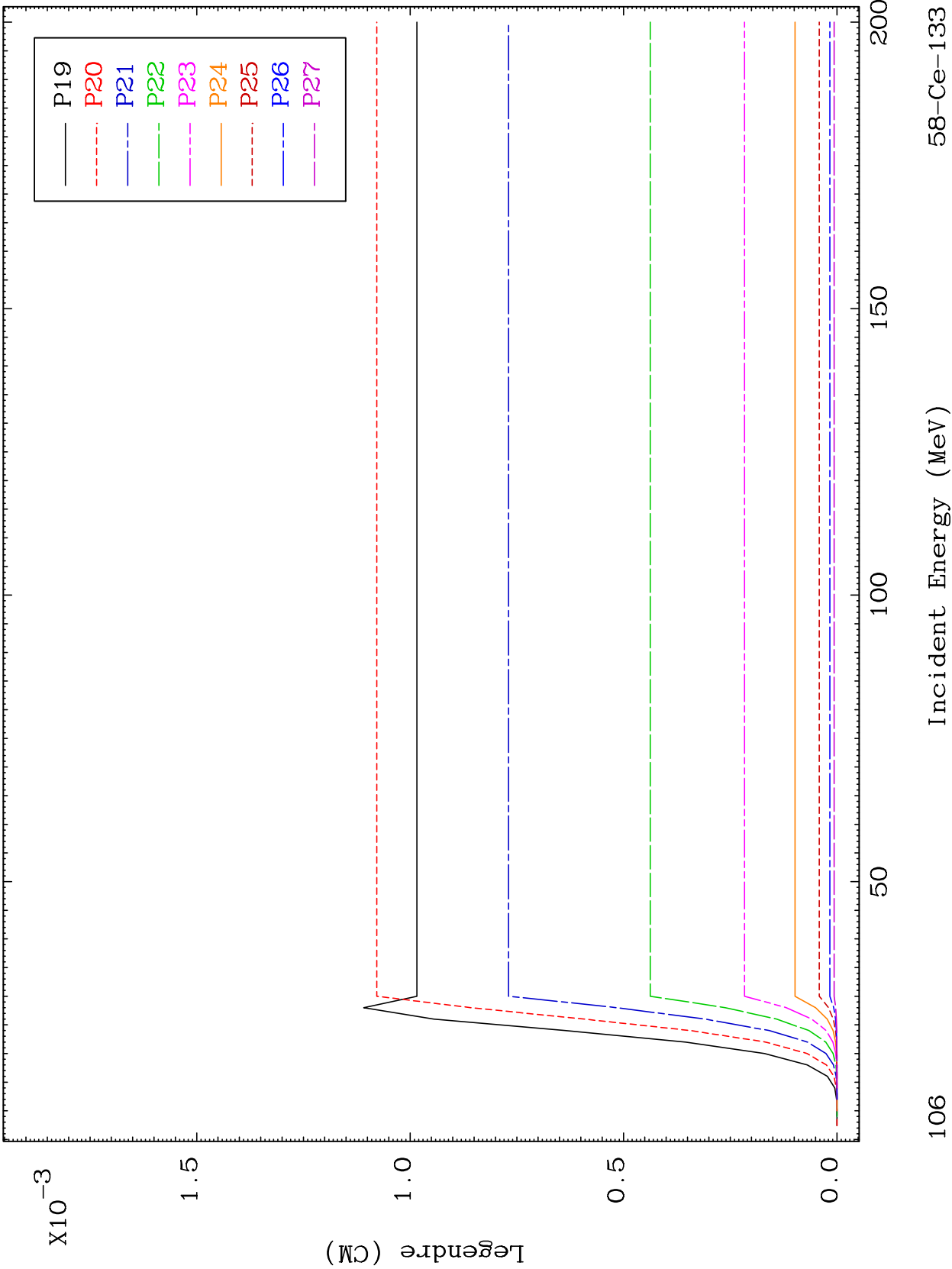
Incident Energy (MeV)

105

MAT 5816

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

58-Ce-133



106

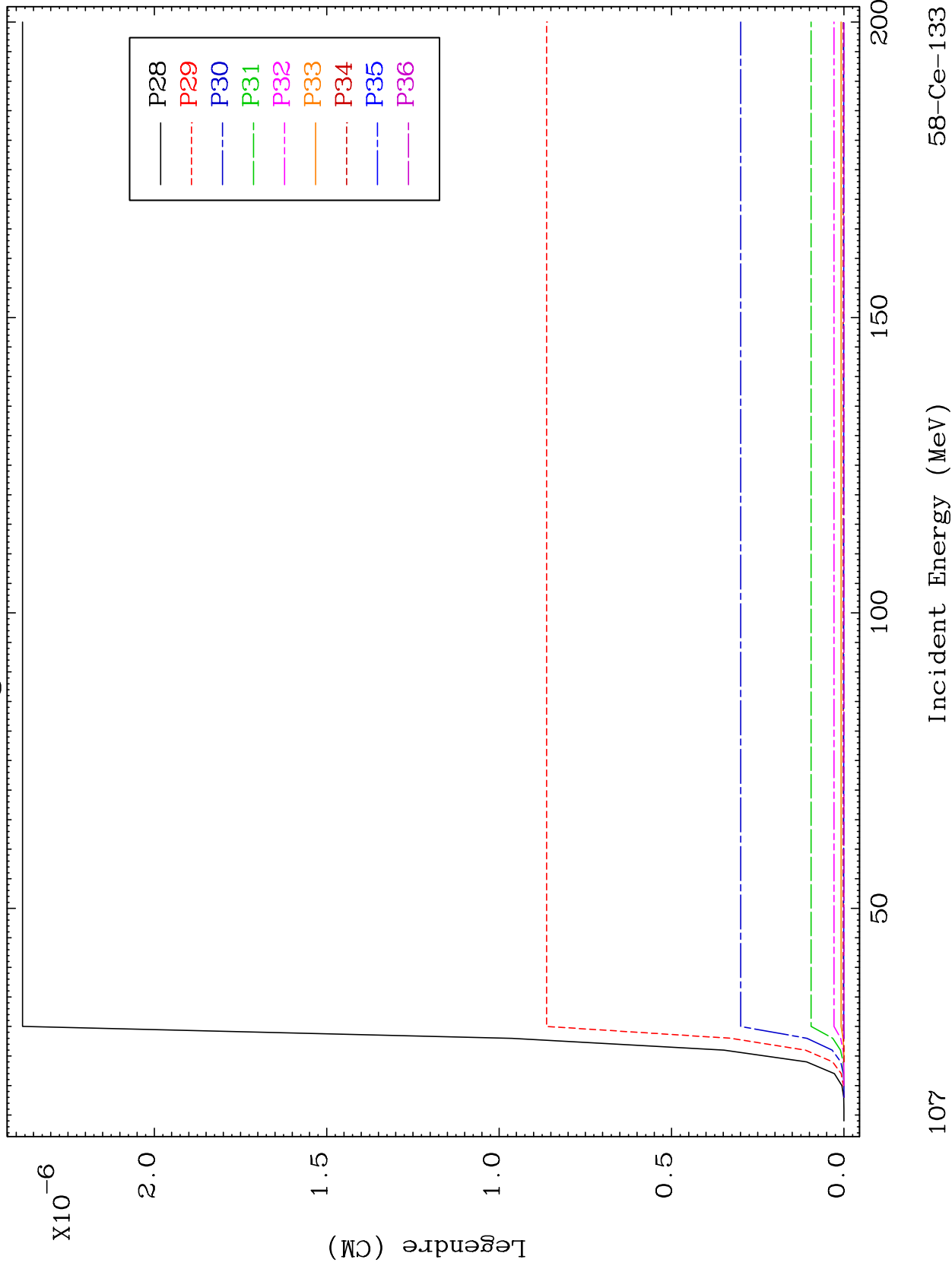
Incident Energy (MeV)

58-Ce-133

MAT 5816

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

58-Ce-133



107

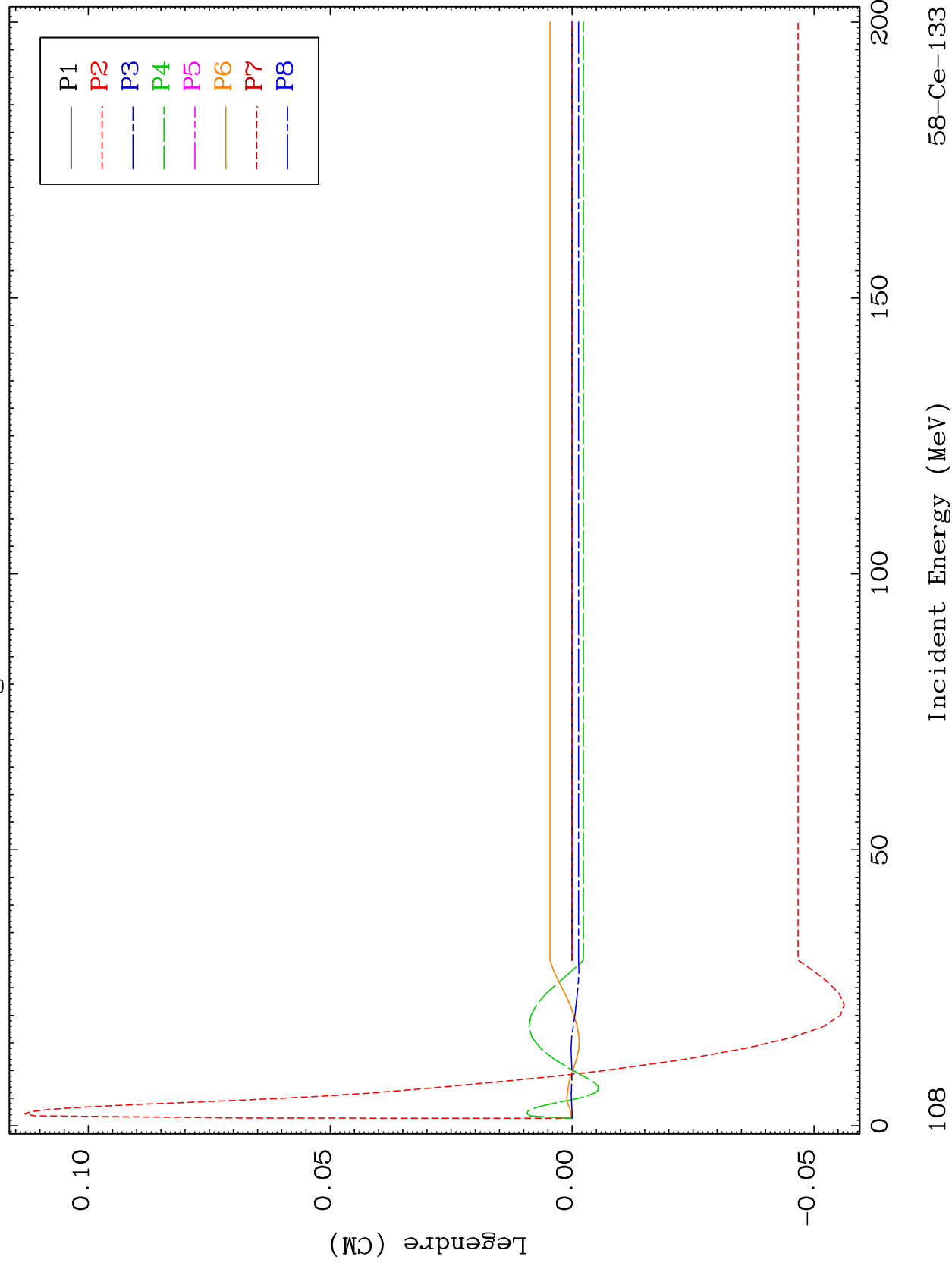
Incident Energy (MeV)

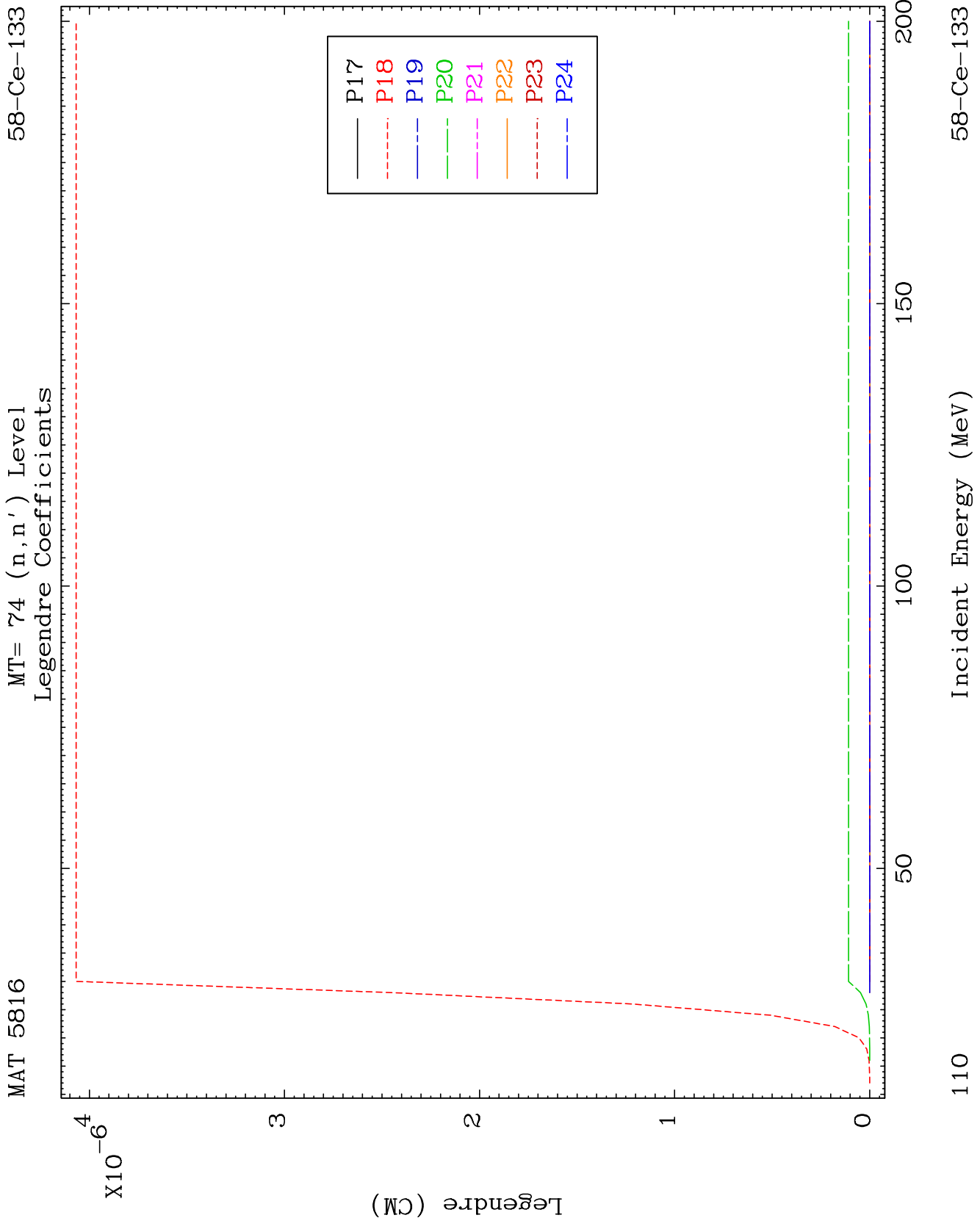
58-Ce-133

MAT 5816

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

58-Ce-133

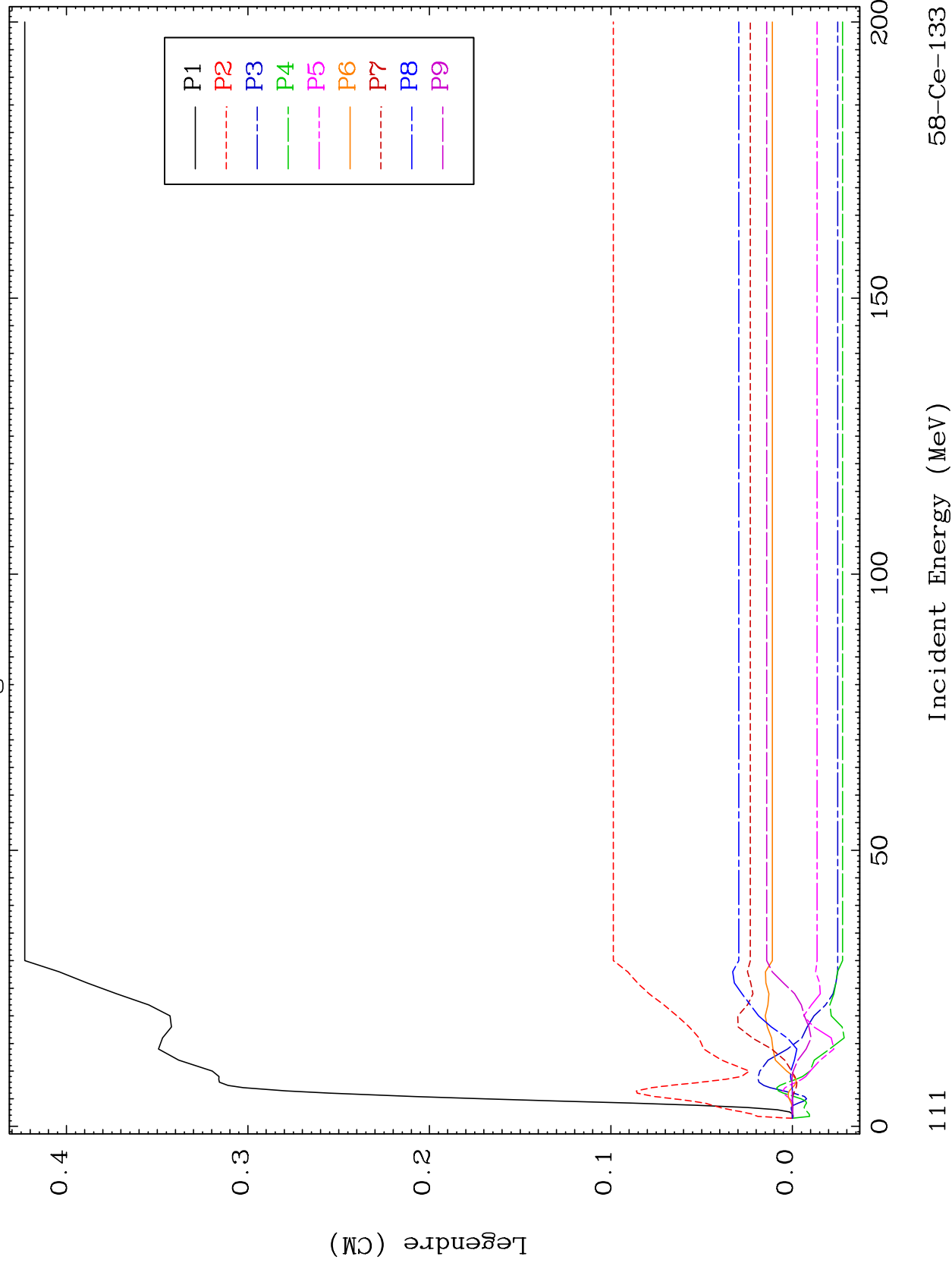




MAT 5816

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

58-Ce-133



111

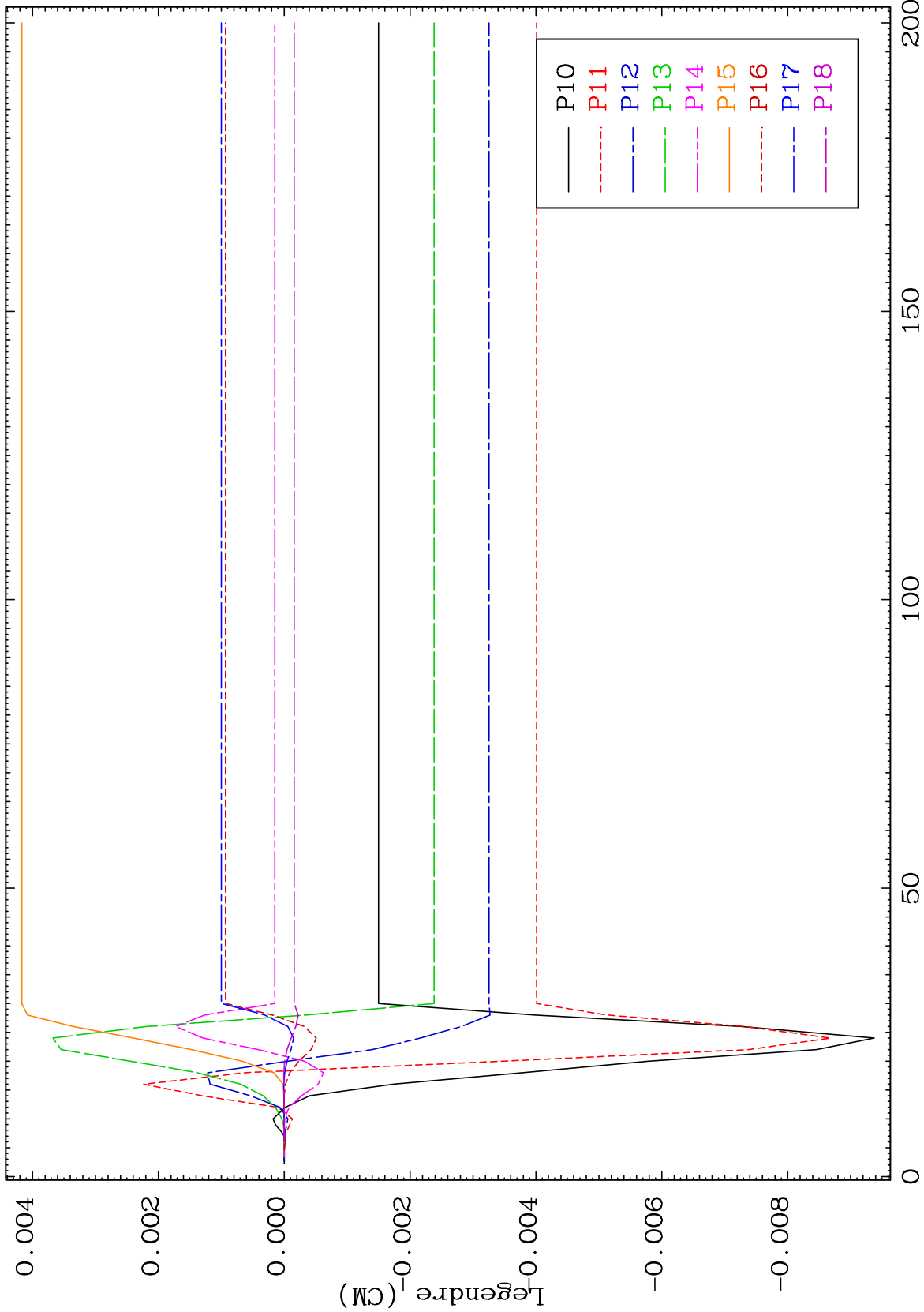
Incident Energy (MeV)

58-Ce-133

MAT 5816

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

58-Ce-133



112

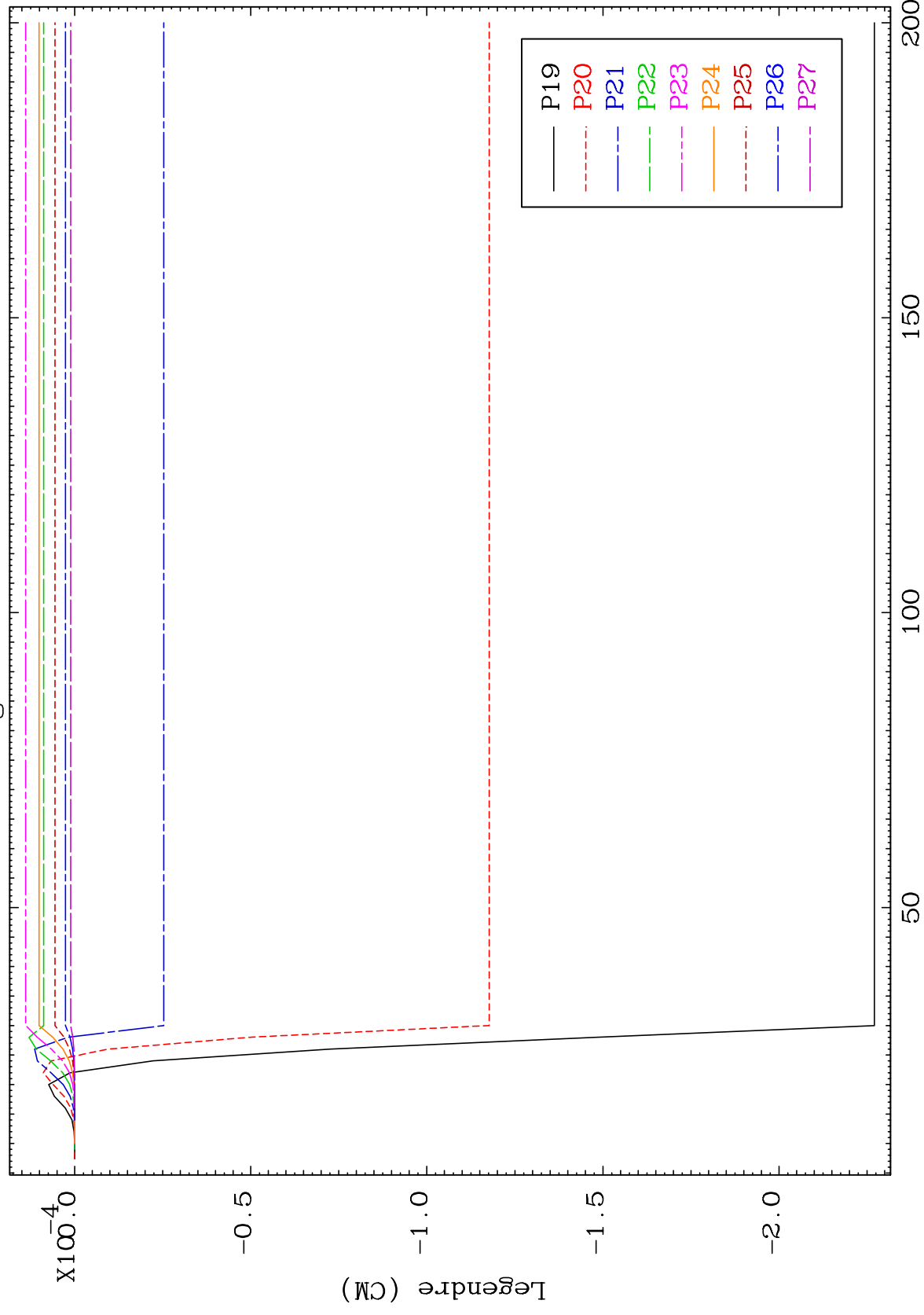
Incident Energy (MeV)

58-Ce-133

MAT 5816

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

58-Ce-133



113

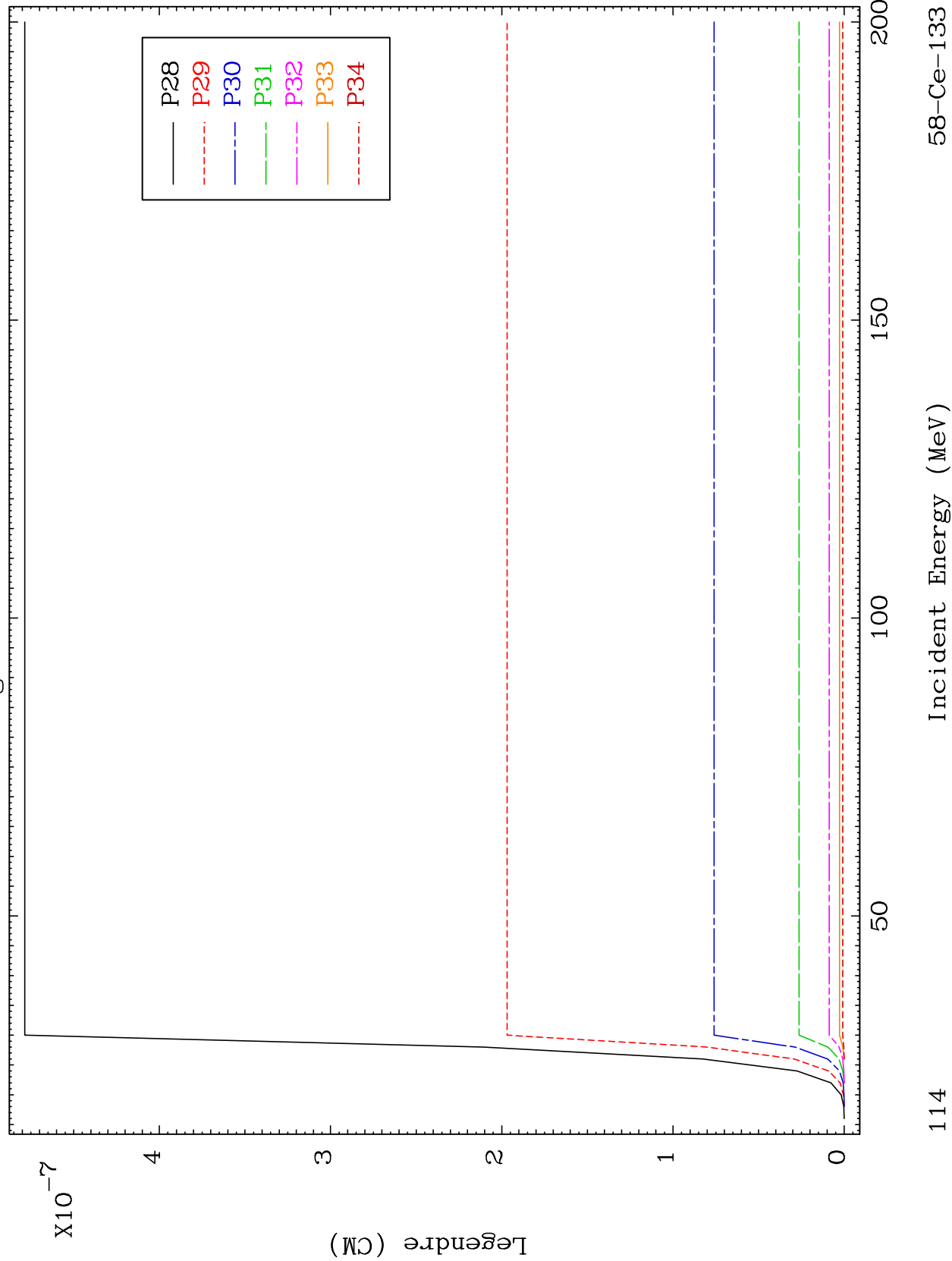
Incident Energy (MeV)

58-Ce-133

MAT 5816

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

58-Ce-133



114

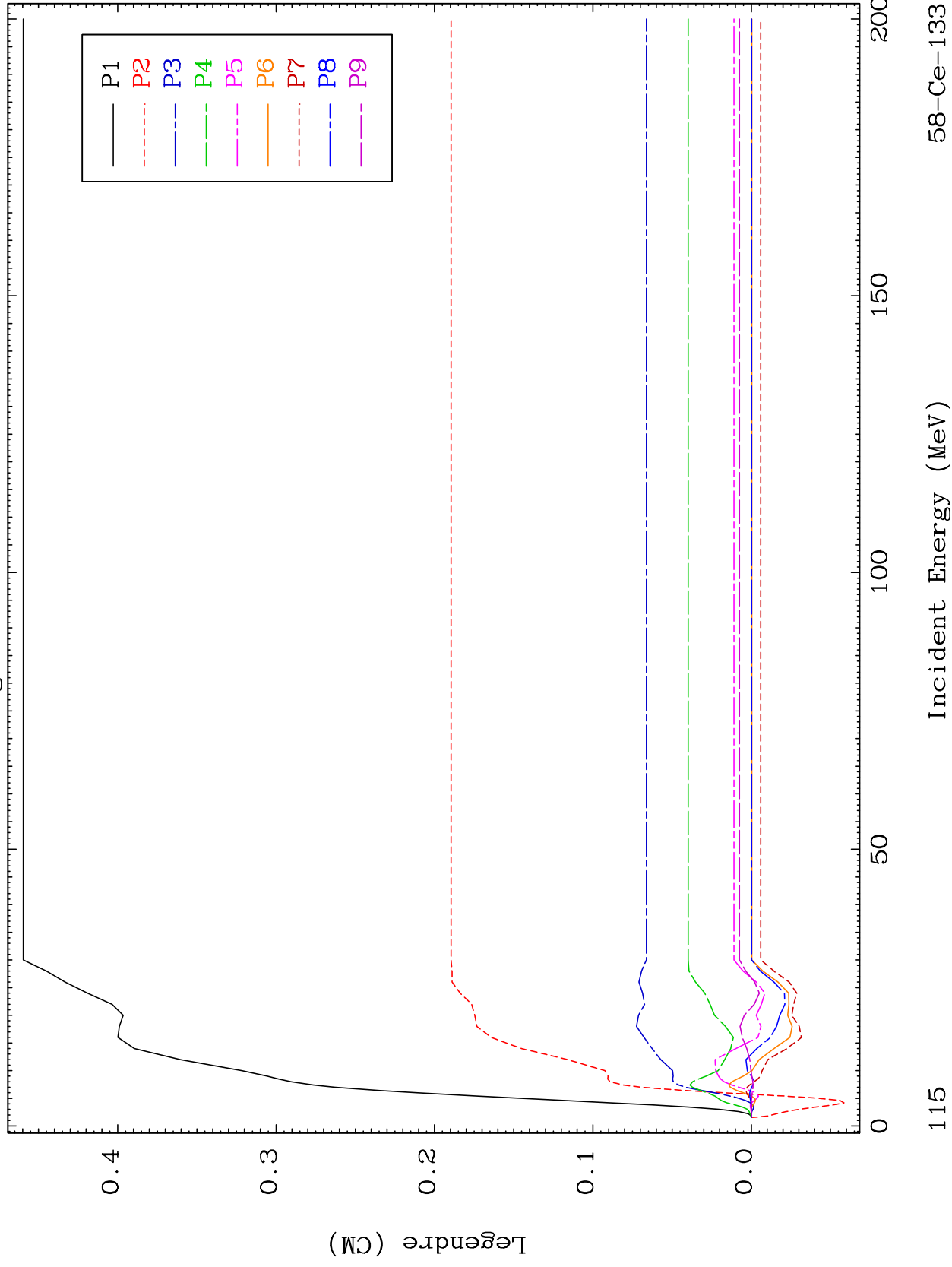
Incident Energy (MeV)

58-Ce-133

MAT 5816

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

58-Ce-133



58-Ce-133

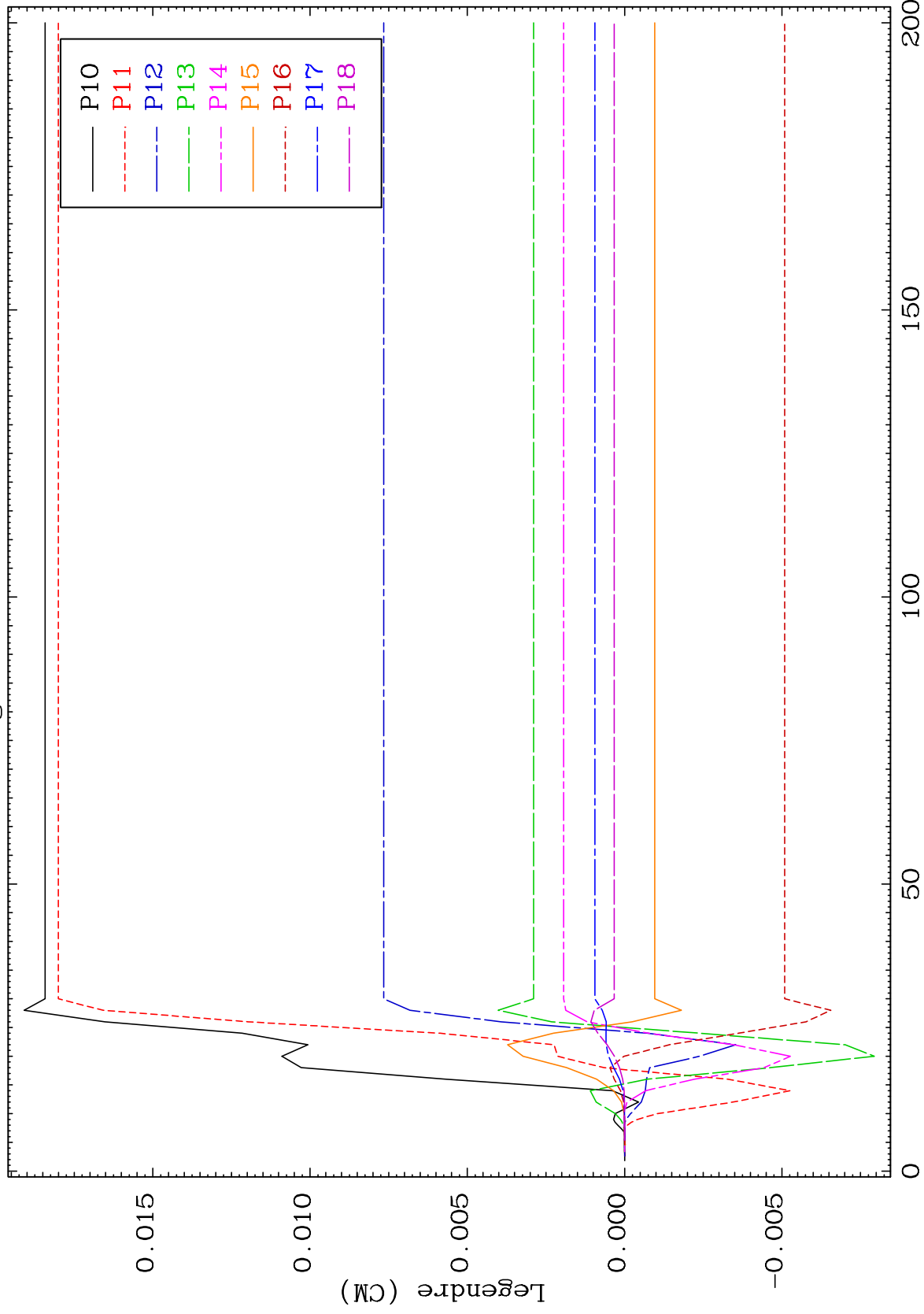
Incident Energy (MeV)

115

MAT 5816

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

58-Ce-133



116

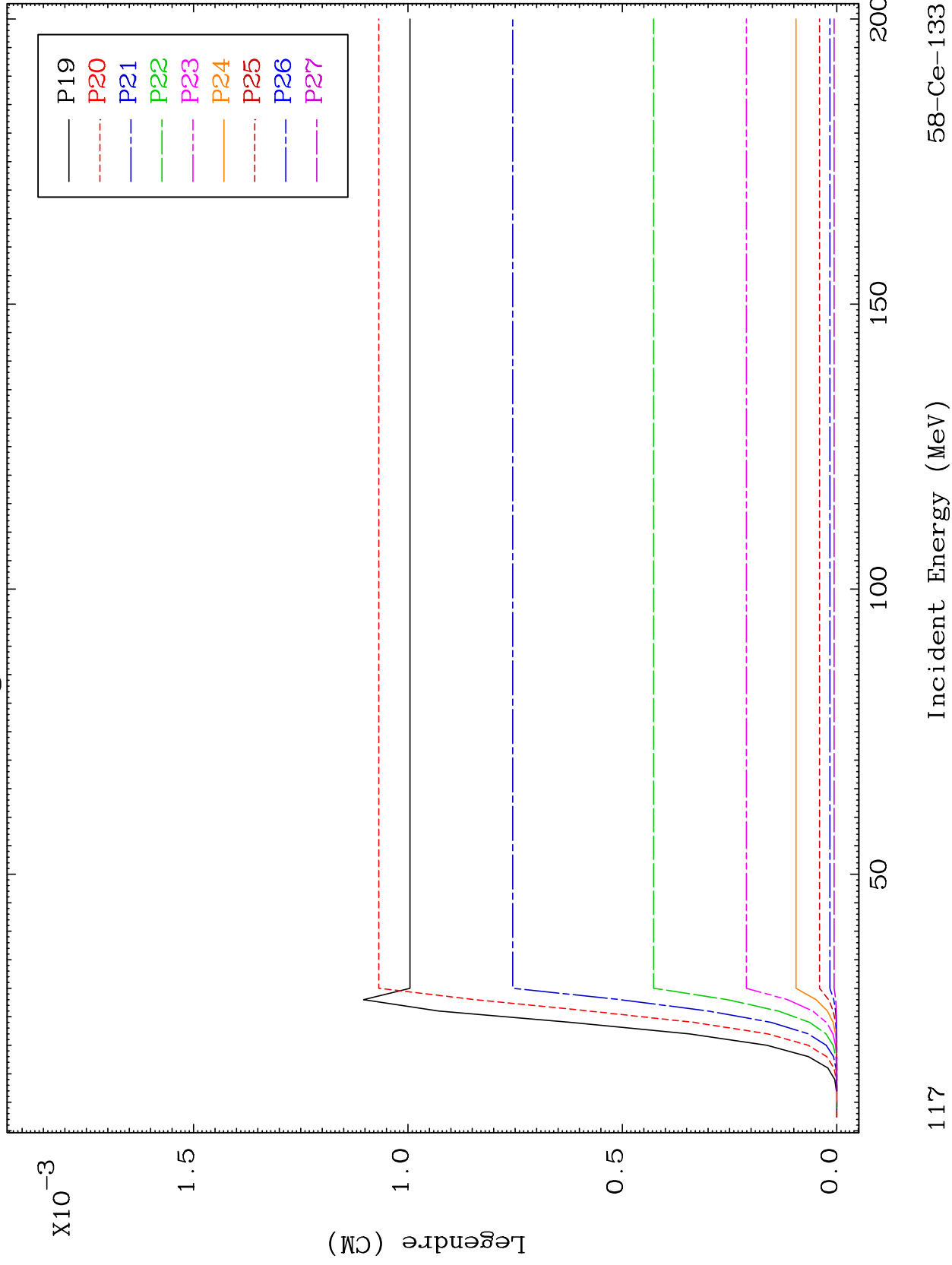
Incident Energy (MeV)

58-Ce-133

MAT 5816

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

58-Ce-133

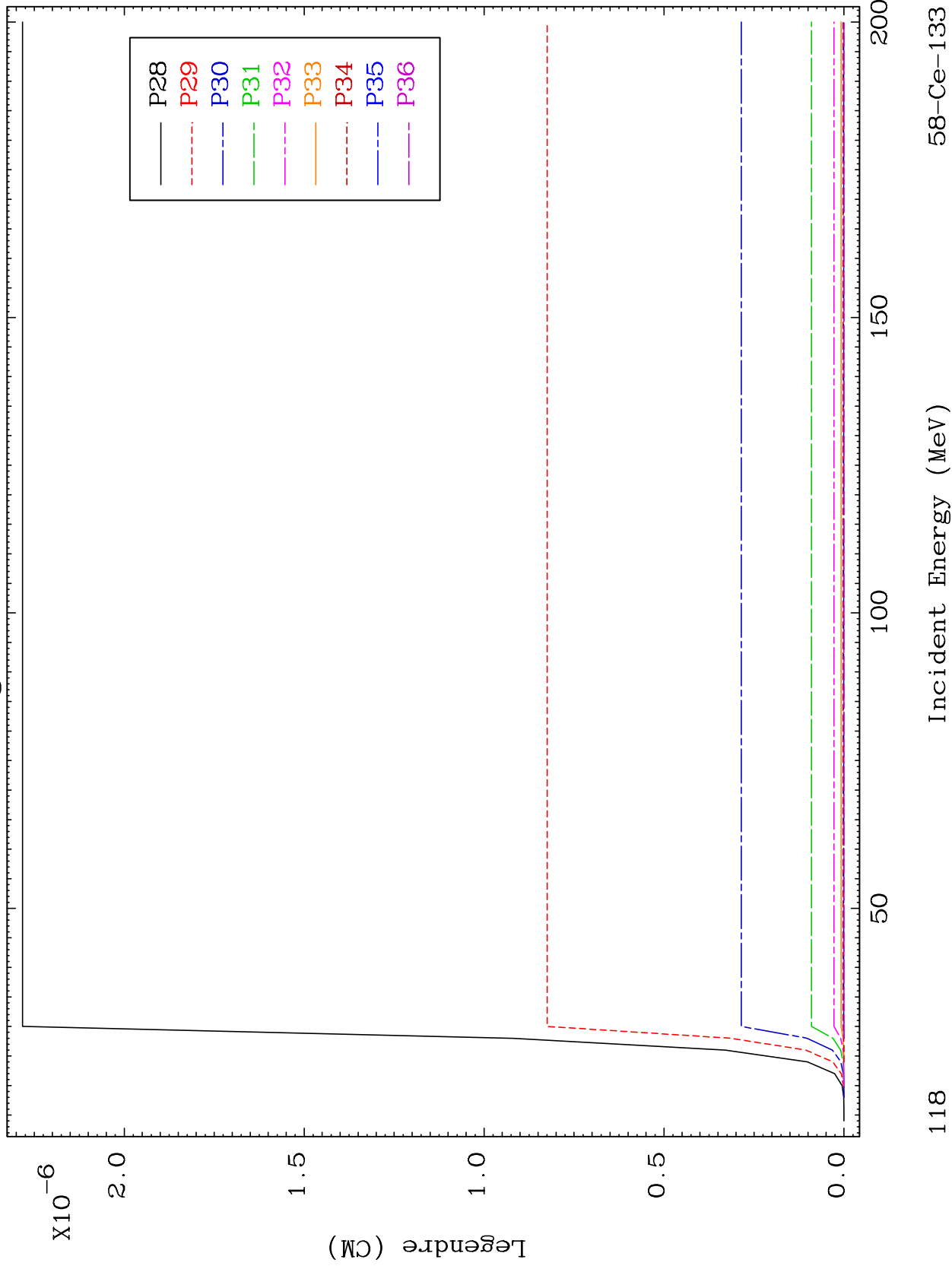


117

MAT 5816

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

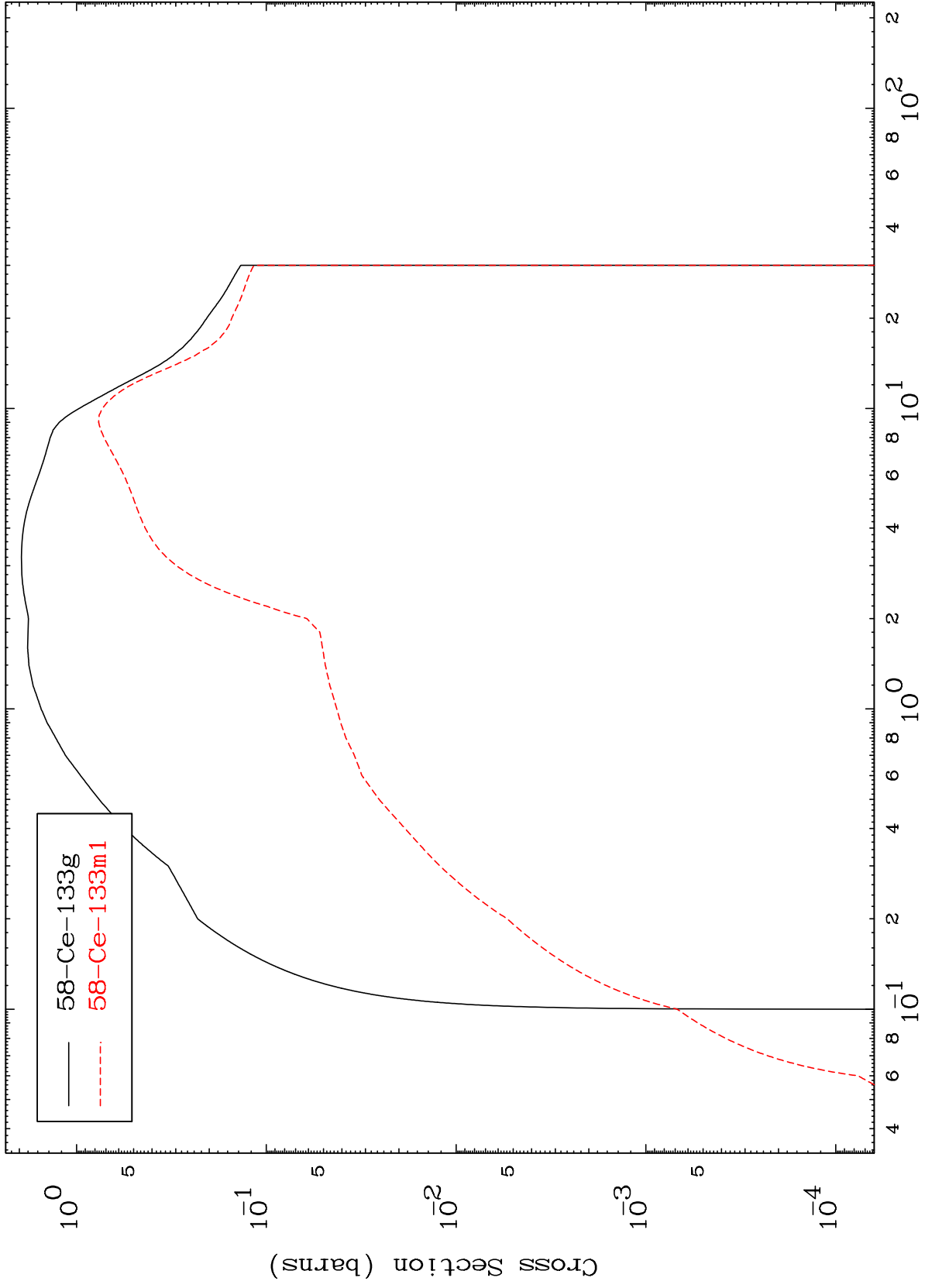
58-Ce-133



MAT 5816

58-Ce-133

Inelastic
Radionuclide Production Cross Section



58-Ce-133g
58-Ce-133m1

119

58-Ce-133

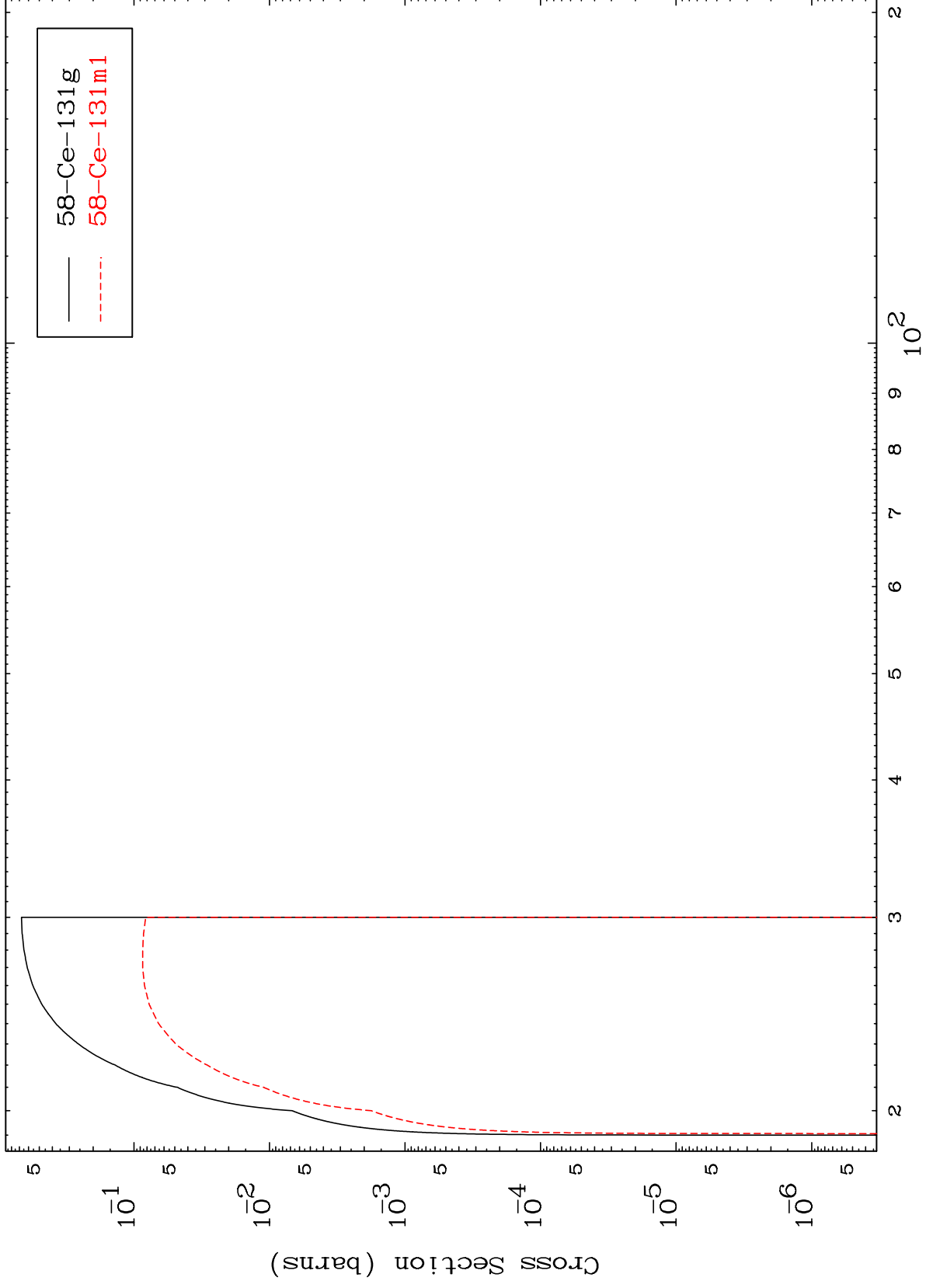
Incident Energy (MeV)

MAT 5816

(n,3n)

58-Ce-133

Radionuclide Production Cross Section



120

Incident Energy (MeV)

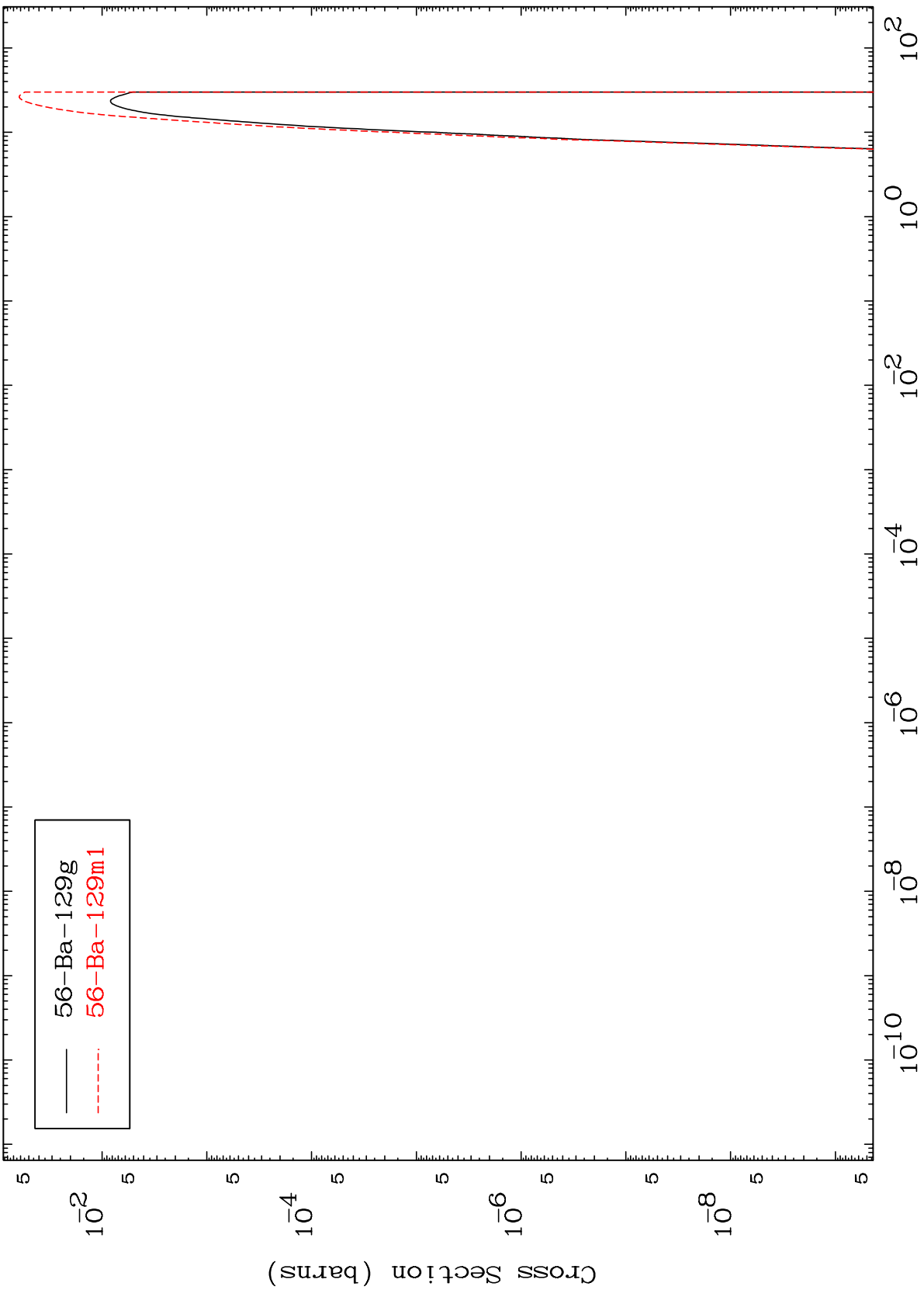
58-Ce-133

MAT 5816

$(n, n') \alpha$

58-Ce-133

Radionuclide Production Cross Section



121

Incident Energy (MeV)

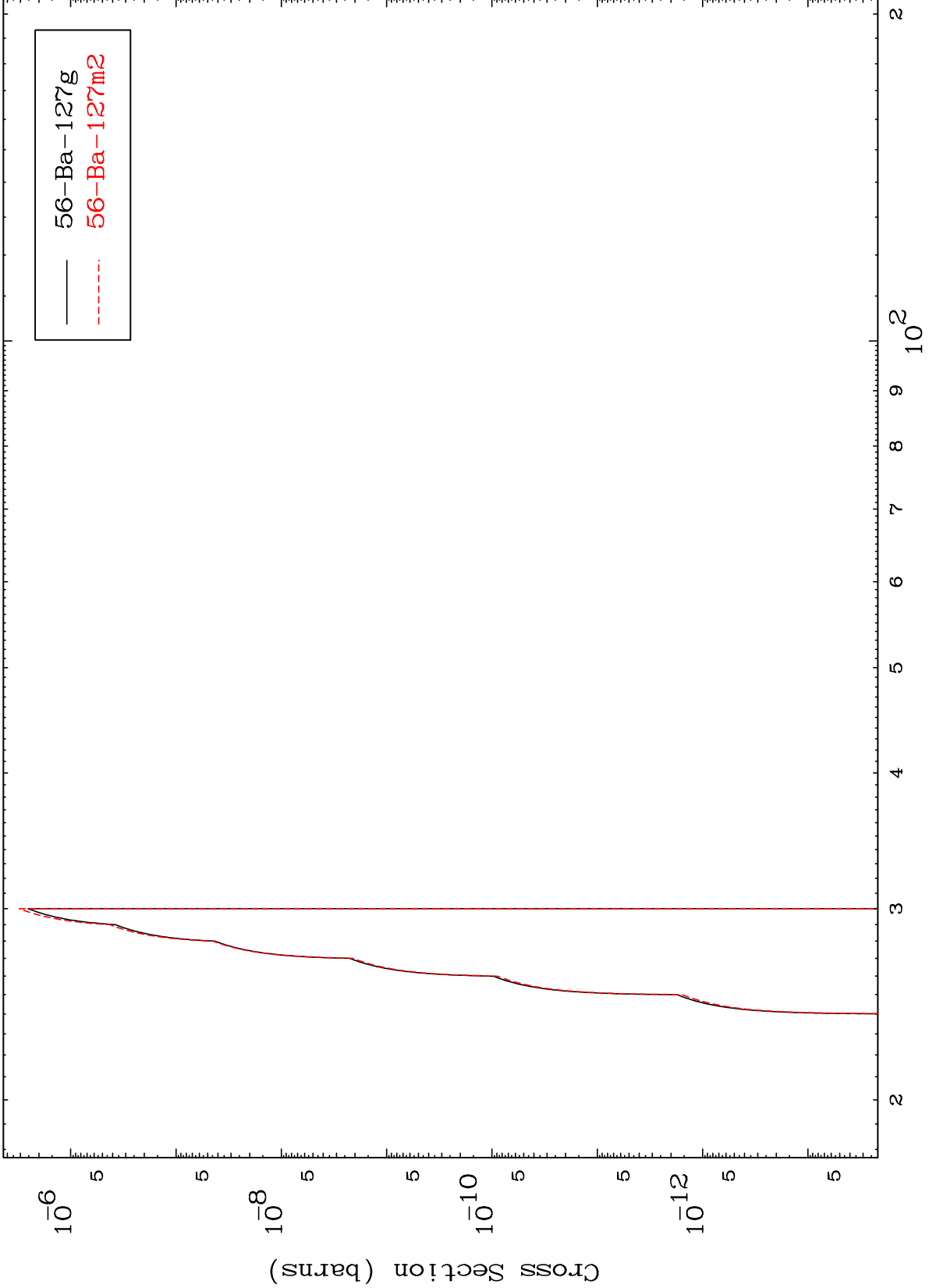
58-Ce-133

MAT 5816

(n,3n) α

58-Ce-133

Radionuclide Production Cross Section



122

Incident Energy (MeV)

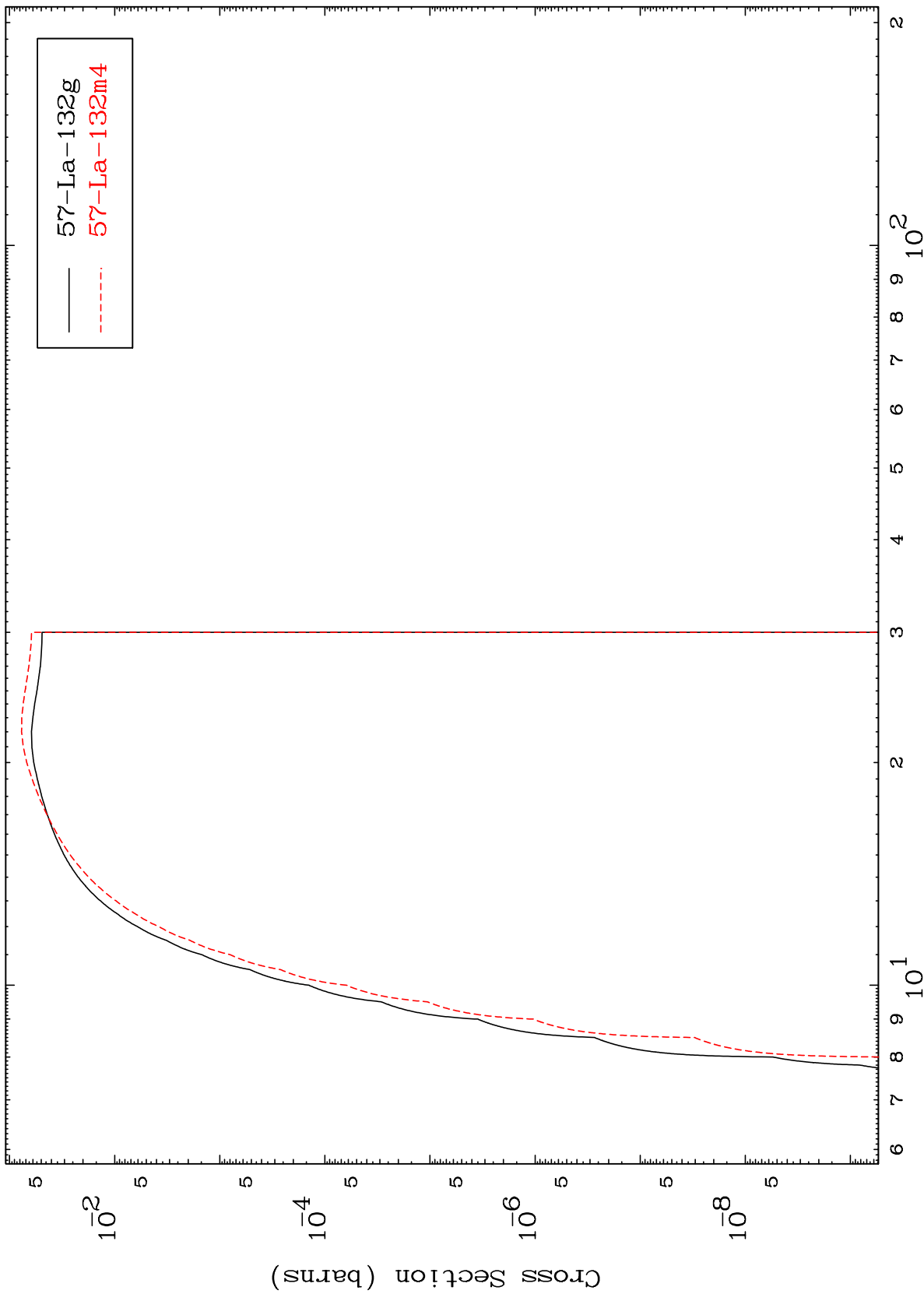
58-Ce-133

MAT 5816

(n,n') p

58-Ce-133

Radionuclide Production Cross Section



123

Incident Energy (MeV)

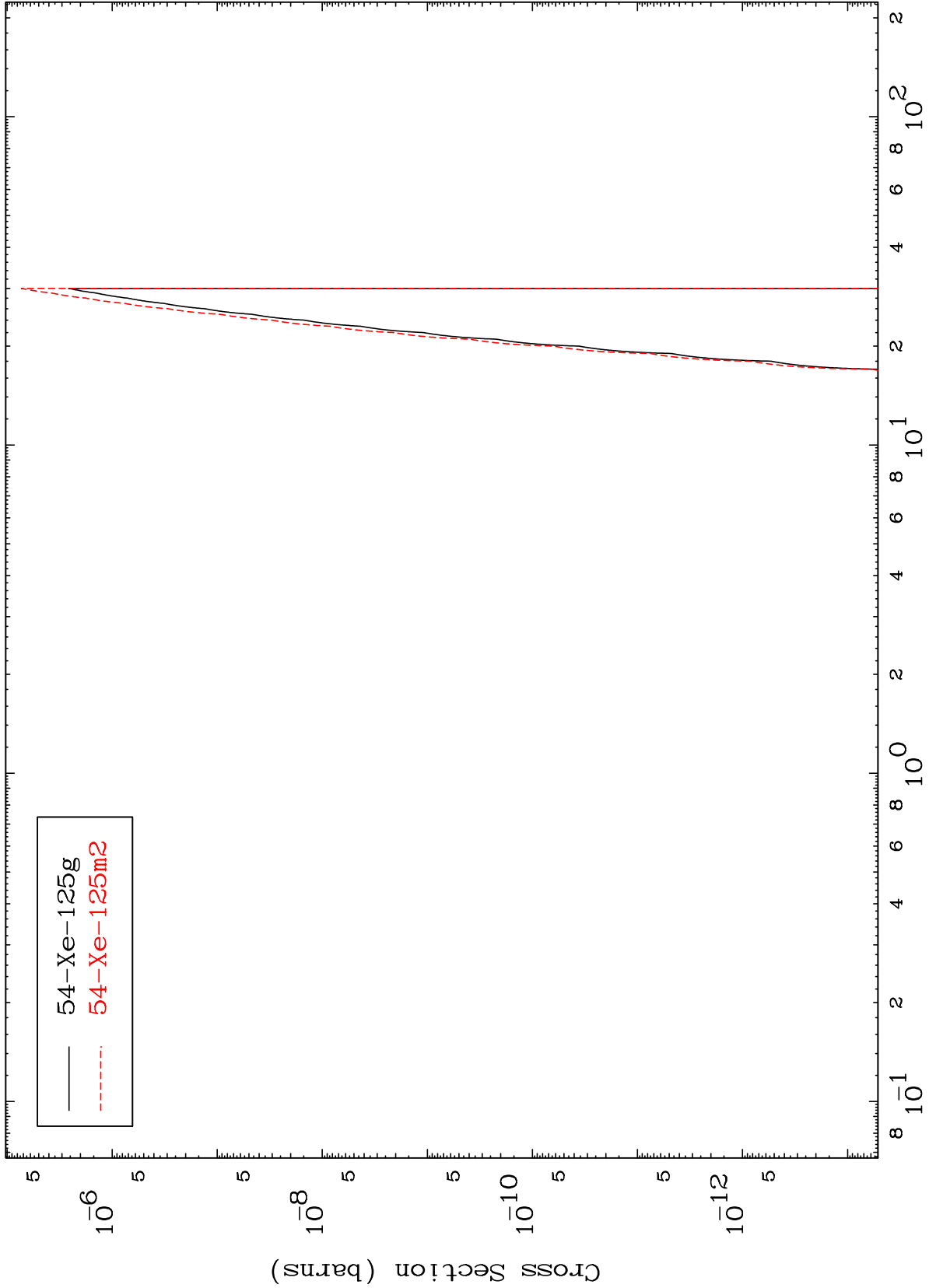
58-Ce-133

MAT 5816

(n,n') 2α

58-Ce-133

Radionuclide Production Cross Section



54-Xe-125g
54-Xe-125m2

124

Incident Energy (MeV)

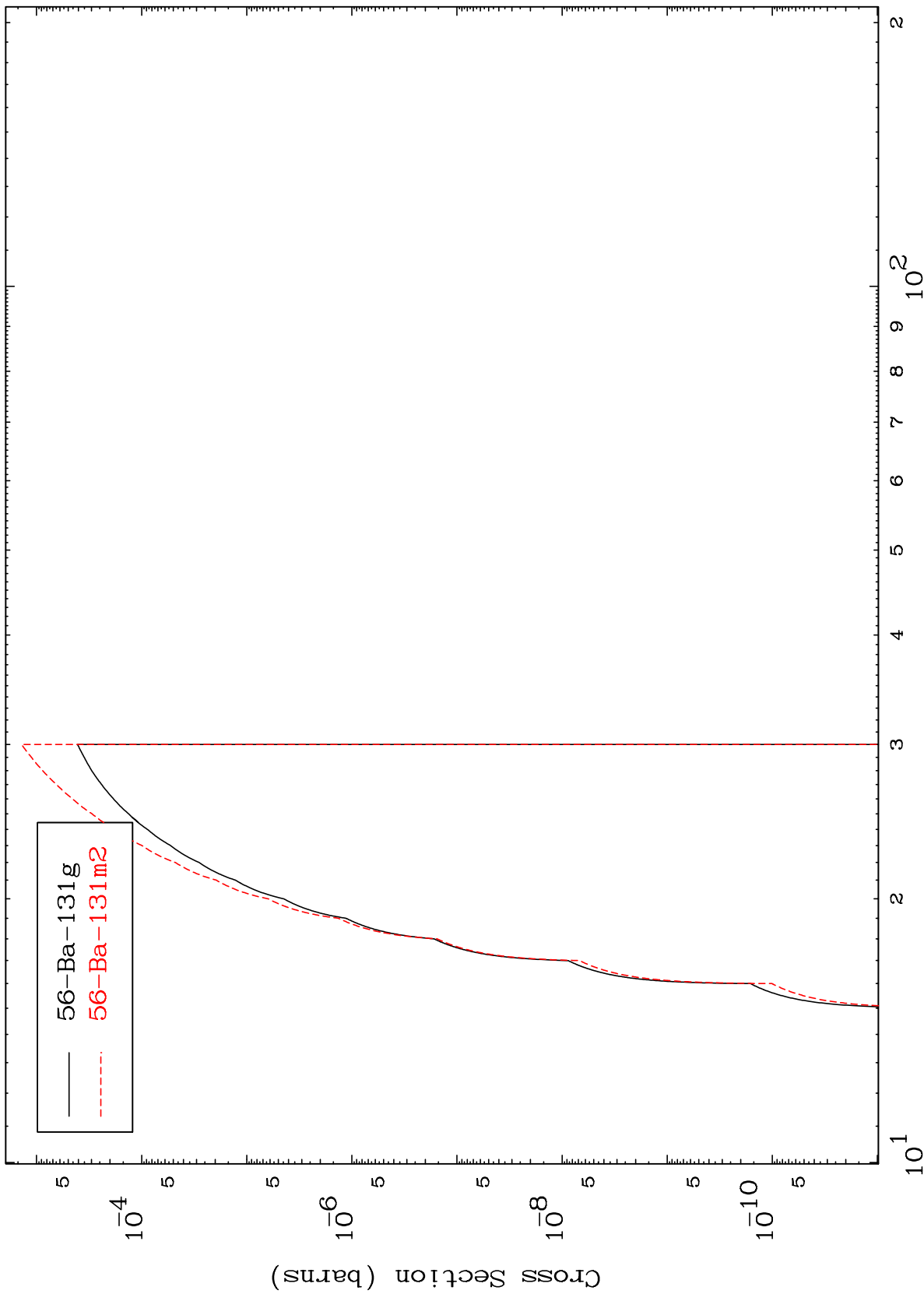
58-Ce-133

MAT 5816

(n,2n) p

58-Ce-133

Radionuclide Production Cross Section



Incident Energy (MeV)

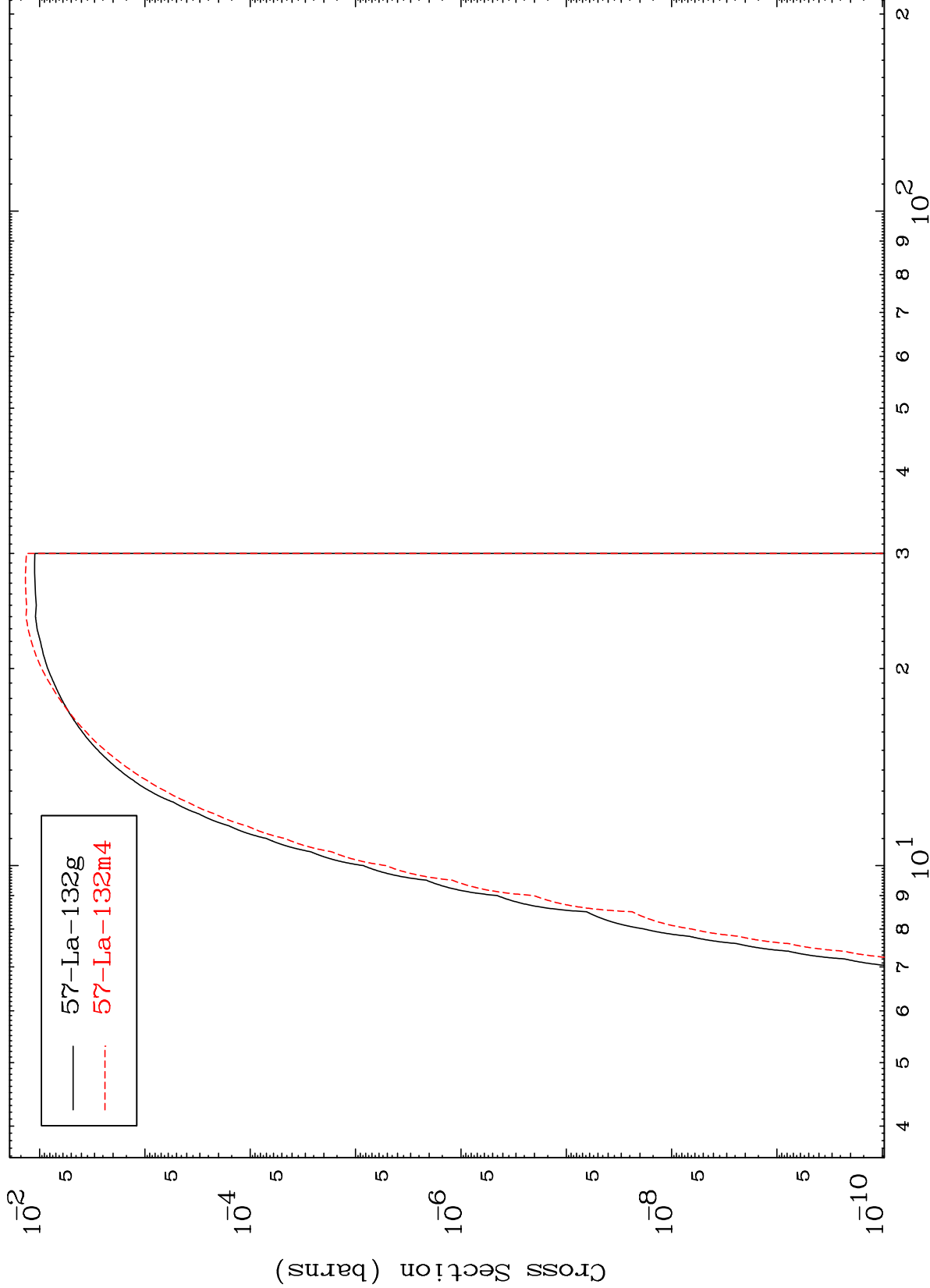
58-Ce-133

125

MAT 5816

58-Ce-133

(n,d)
Radionuclide Production Cross Section



— 57-La-132g
- - - 57-La-132m4

58-Ce-133

Incident Energy (MeV)

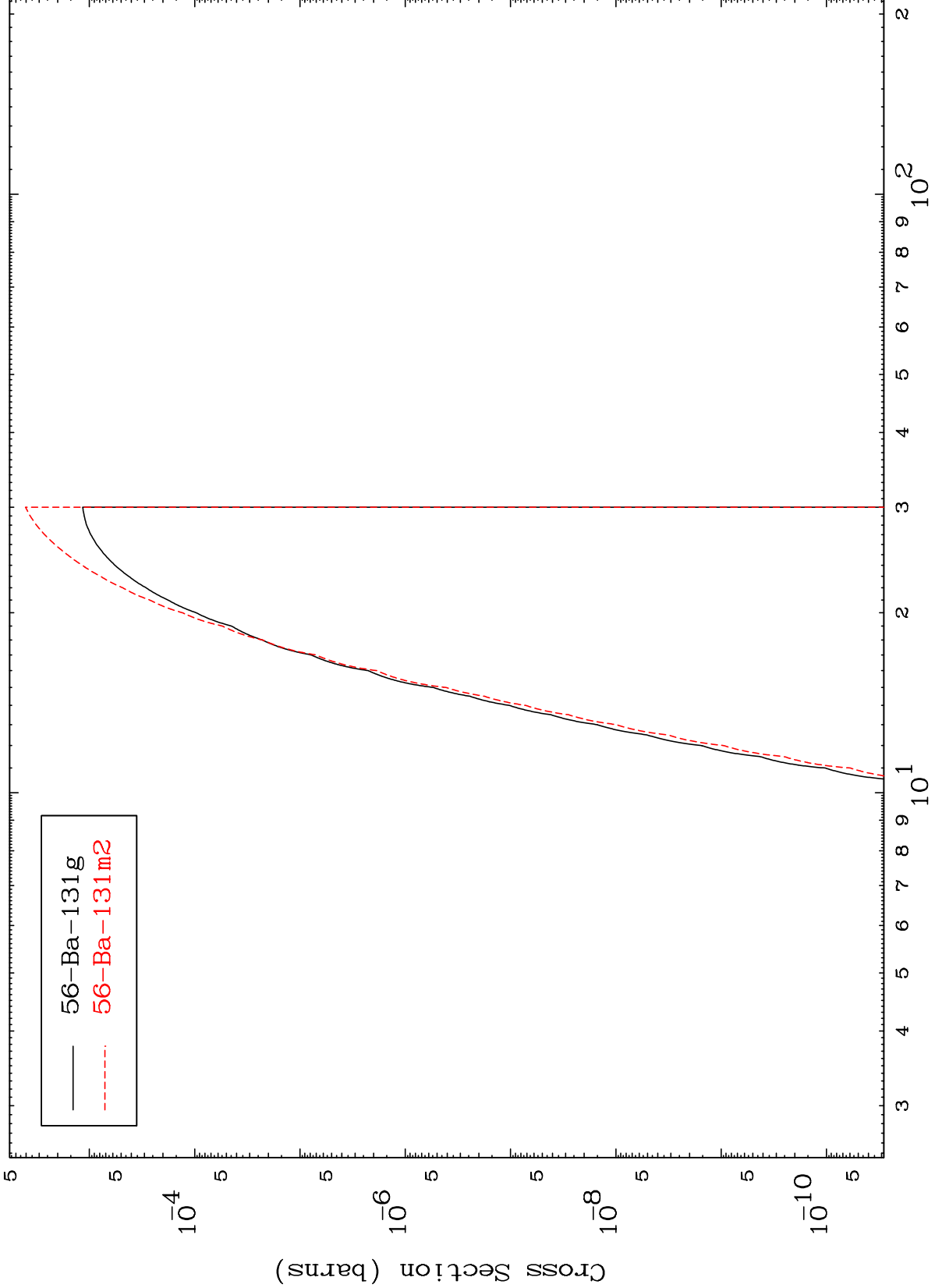
126

MAT 5816

(n,He-3)

58-Ce-133

Radionuclide Production Cross Section



56-Ba-131g
56-Ba-131m2

127

Incident Energy (MeV)

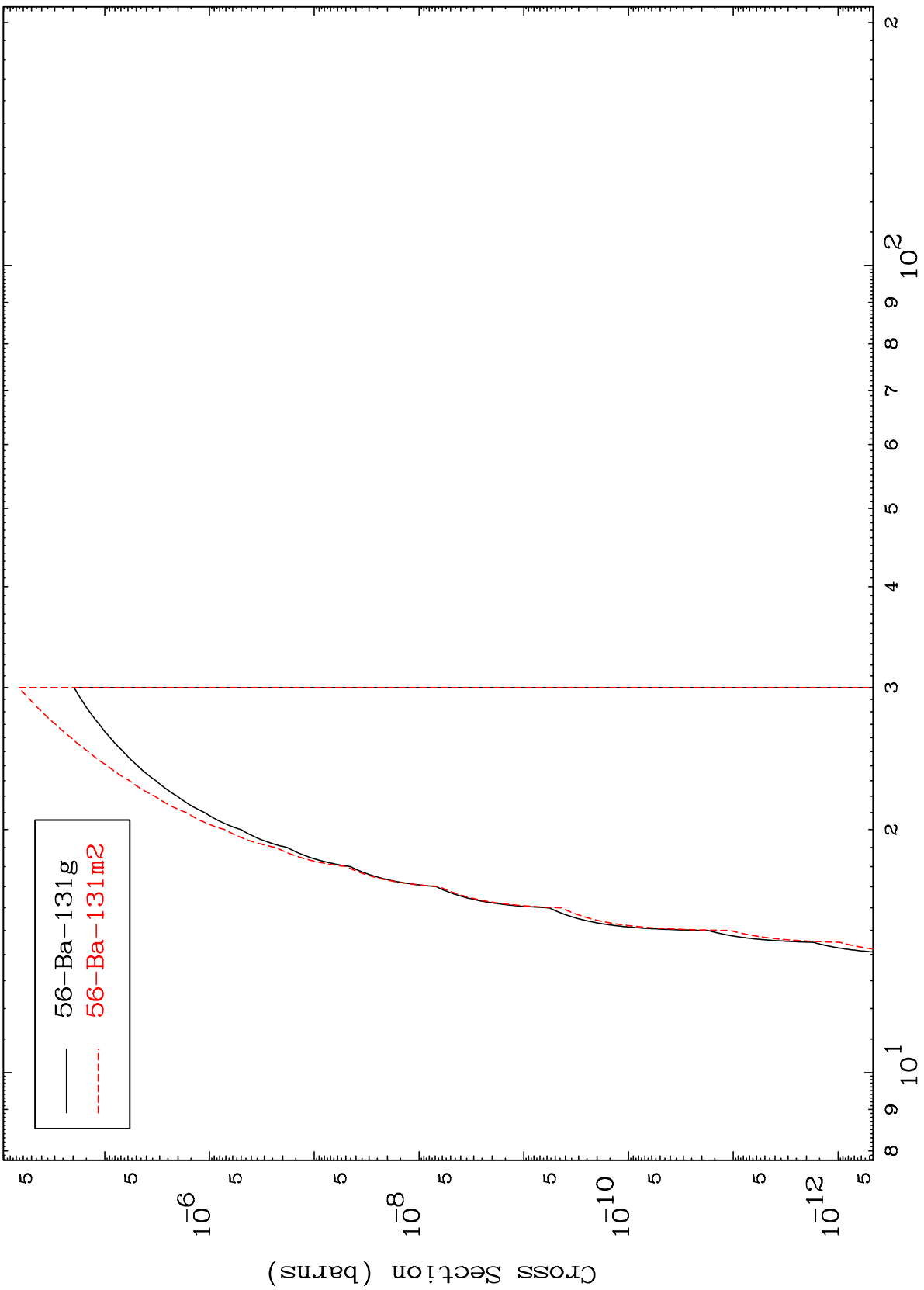
58-Ce-133

MAT 5816

(n,p) d

58-Ce-133

Radionuclide Production Cross Section



128

Incident Energy (MeV)

58-Ce-133