

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

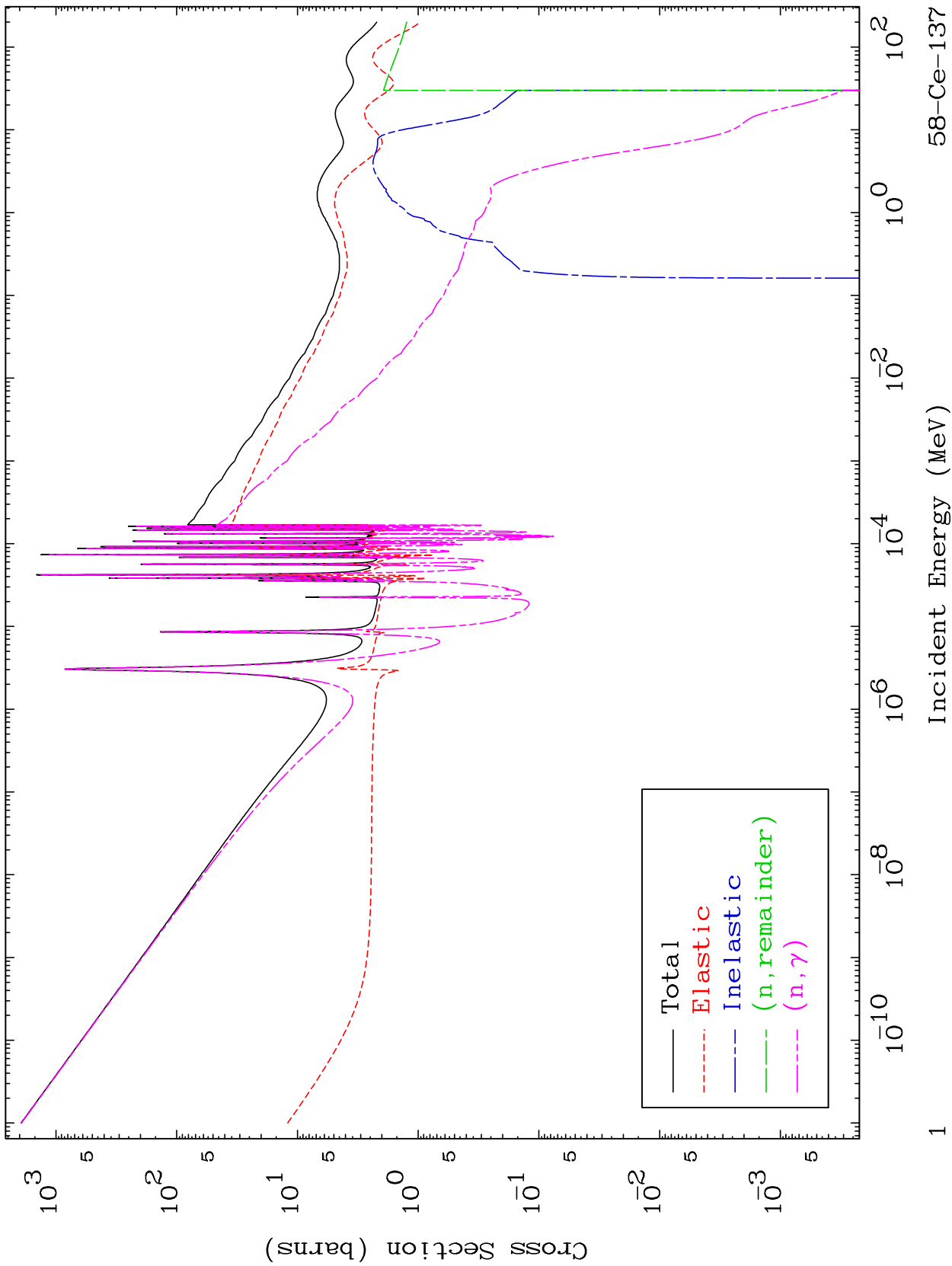
Press Mouse Button to Start

MAT 5828

Major

293 Kelvin Cross Sections

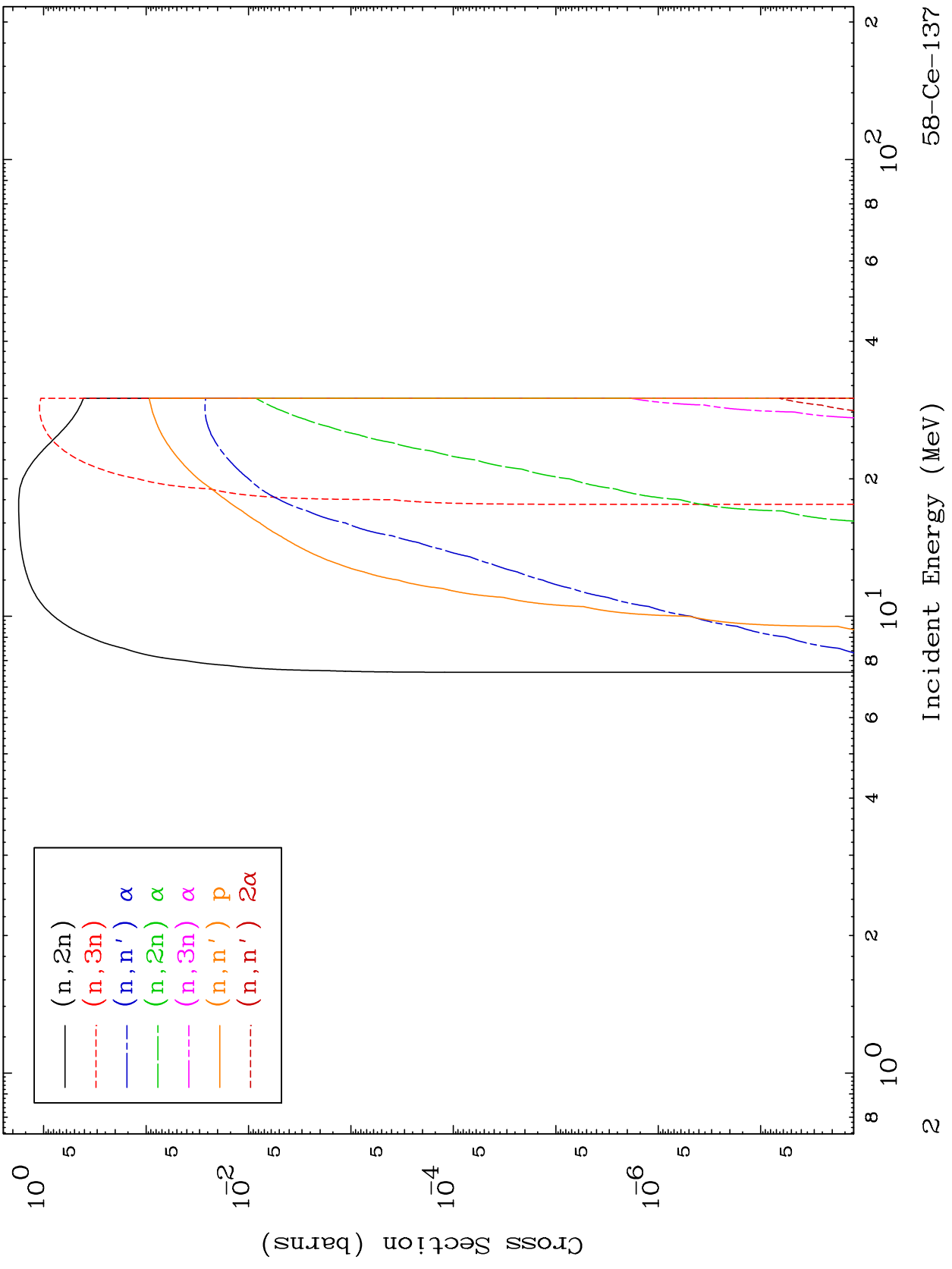
58-Ce-137

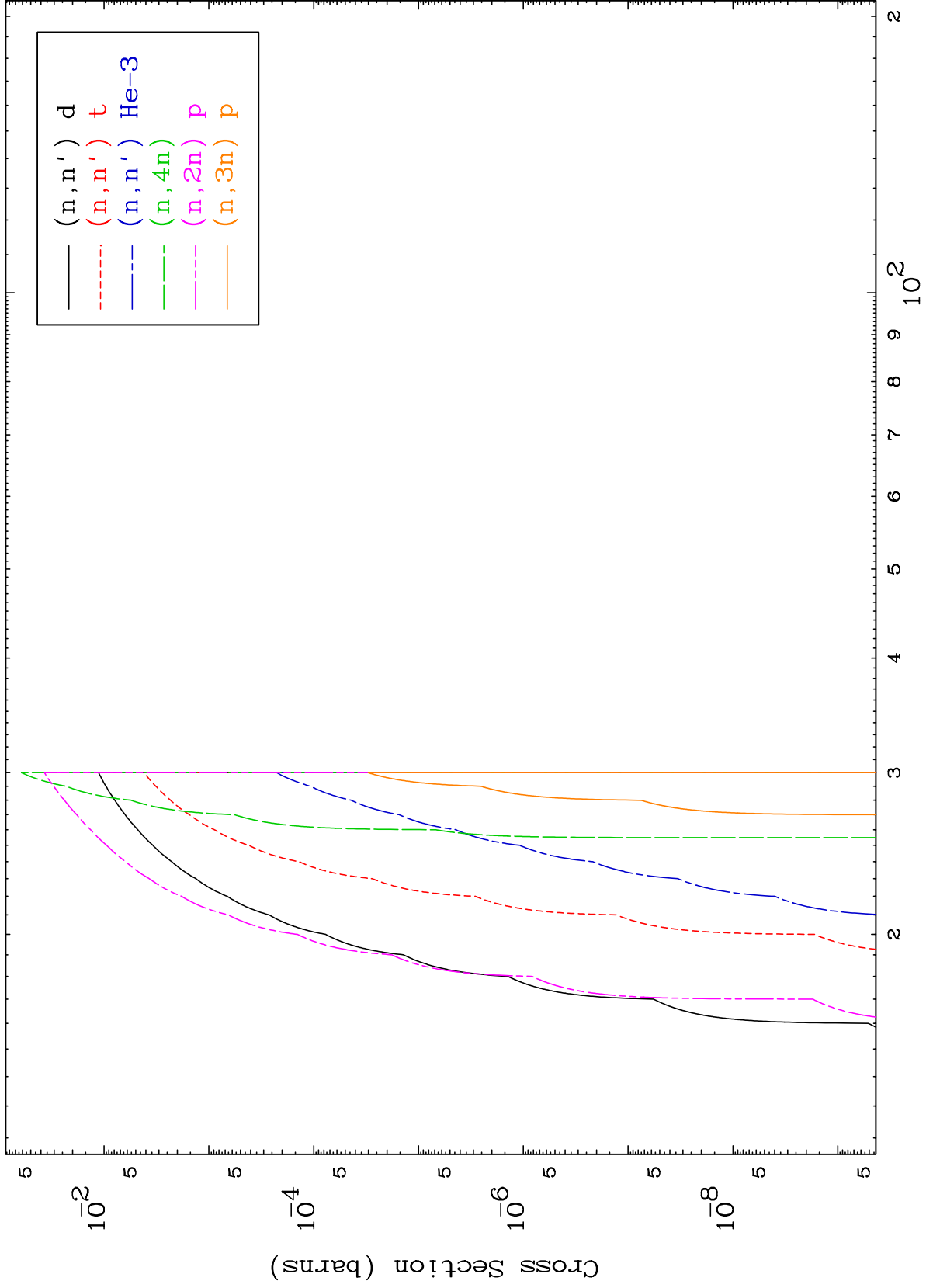


MAT 5828

Neutron Production  
293 Kelvin Cross Sections

58-Ce-137

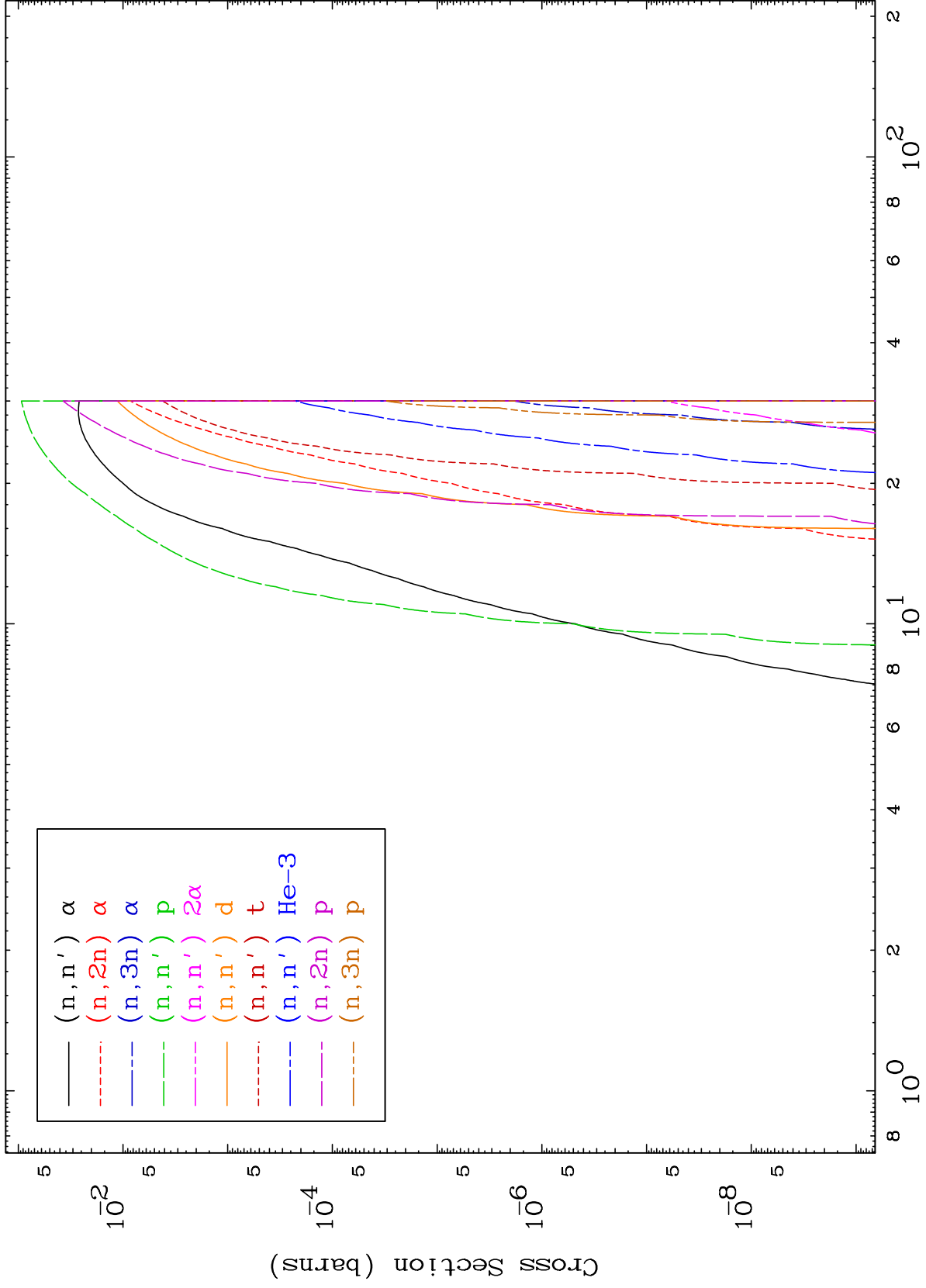




MAT 5828

Charged Particle  
293 Kelvin Cross Sections

58-Ce-137



58-Ce-137

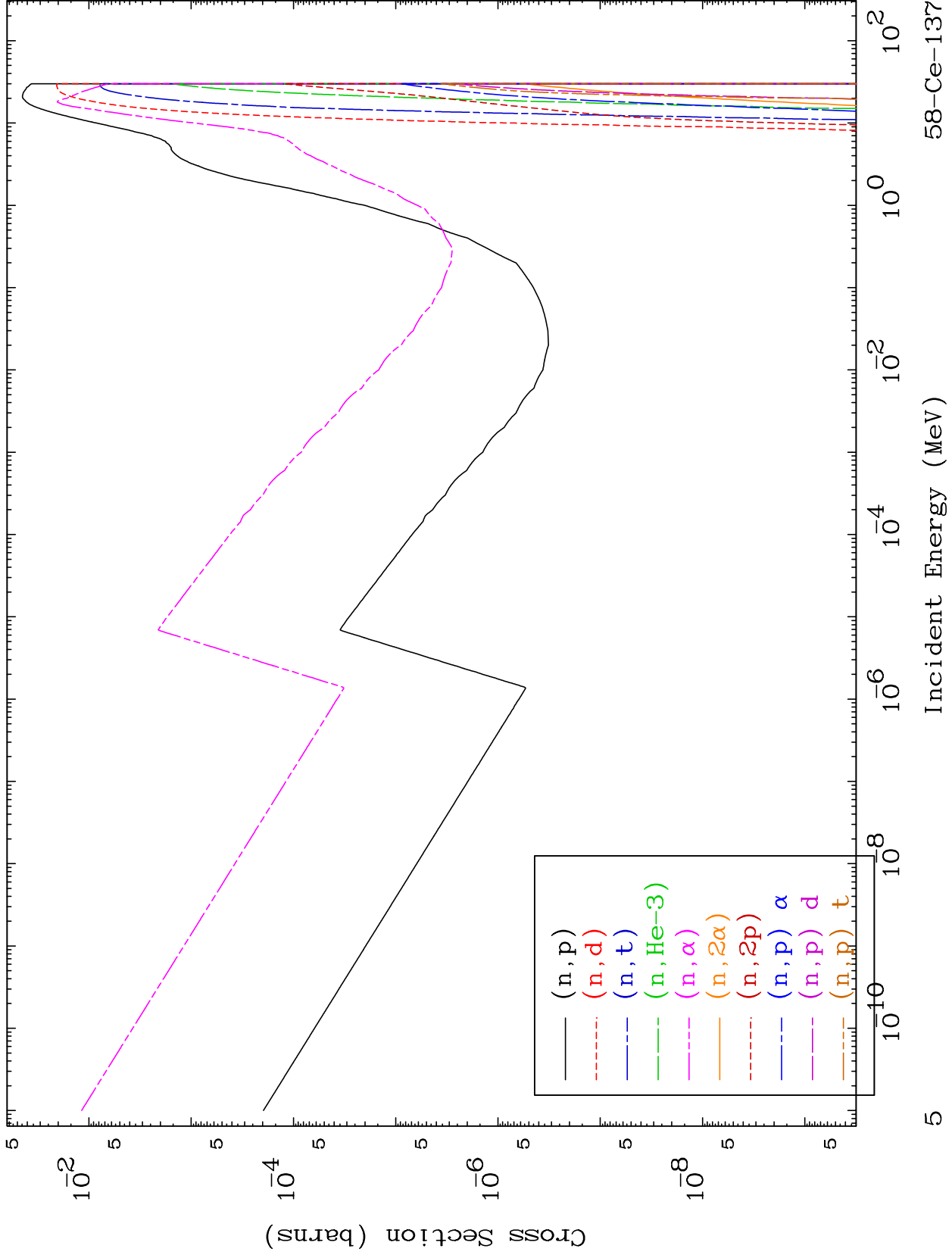
Incident Energy (MeV)

4

MAT 5828

Charged Particle  
293 Kelvin Cross Sections

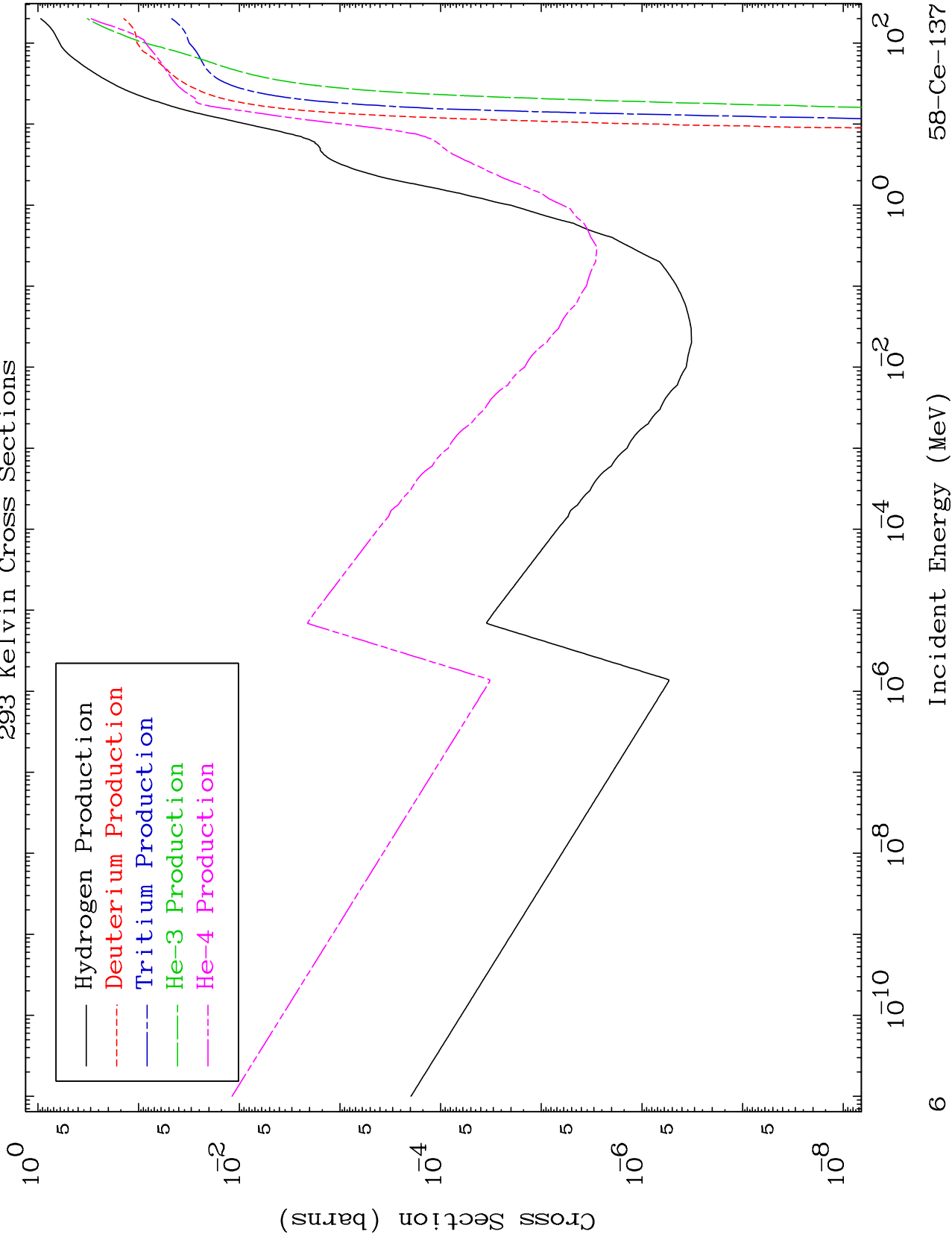
58-Ce-137



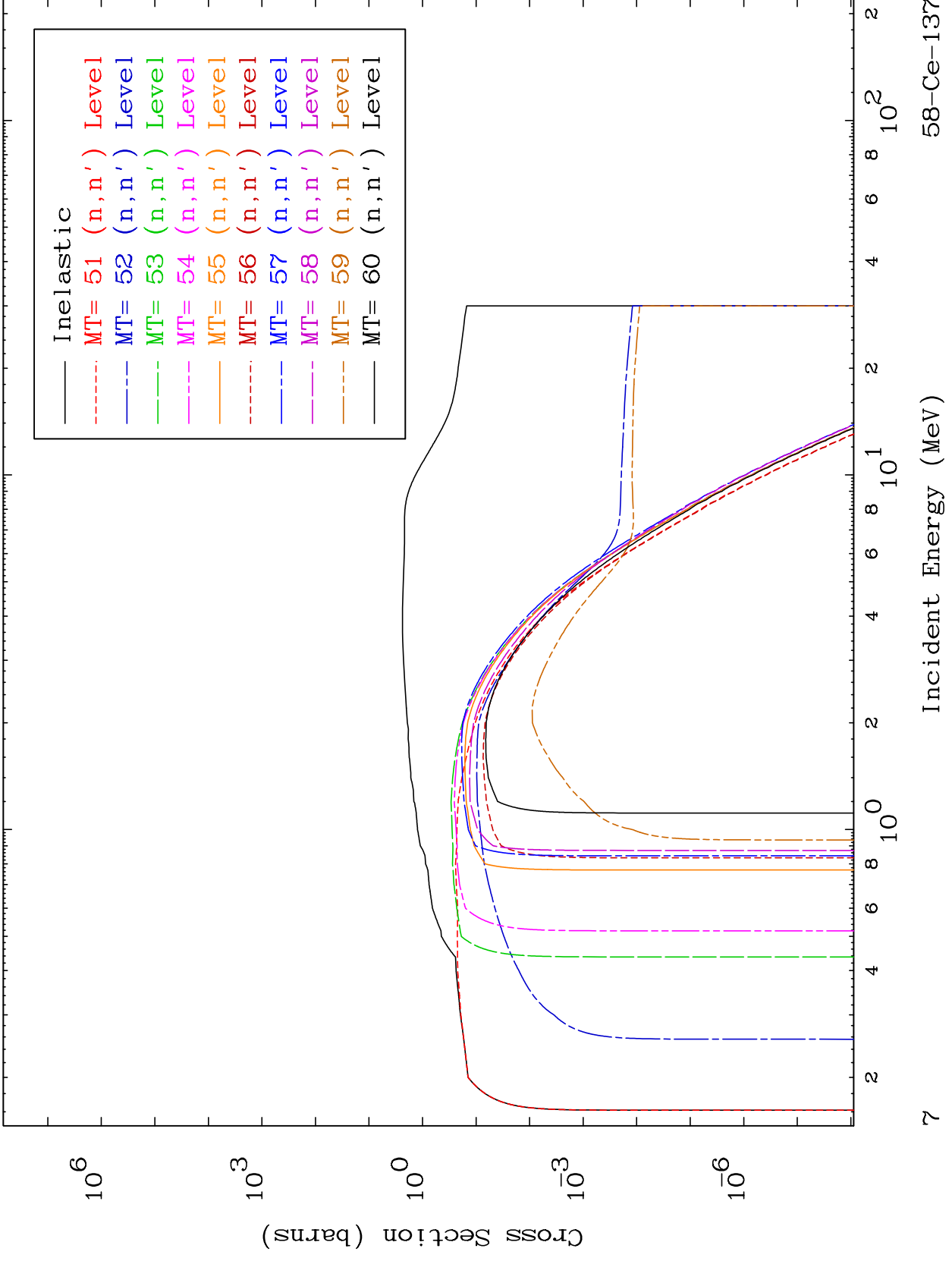
MAT 5828

Particle Production  
293 Kelvin Cross Sections

58-Ce-137



293 Kelvin Cross Sections



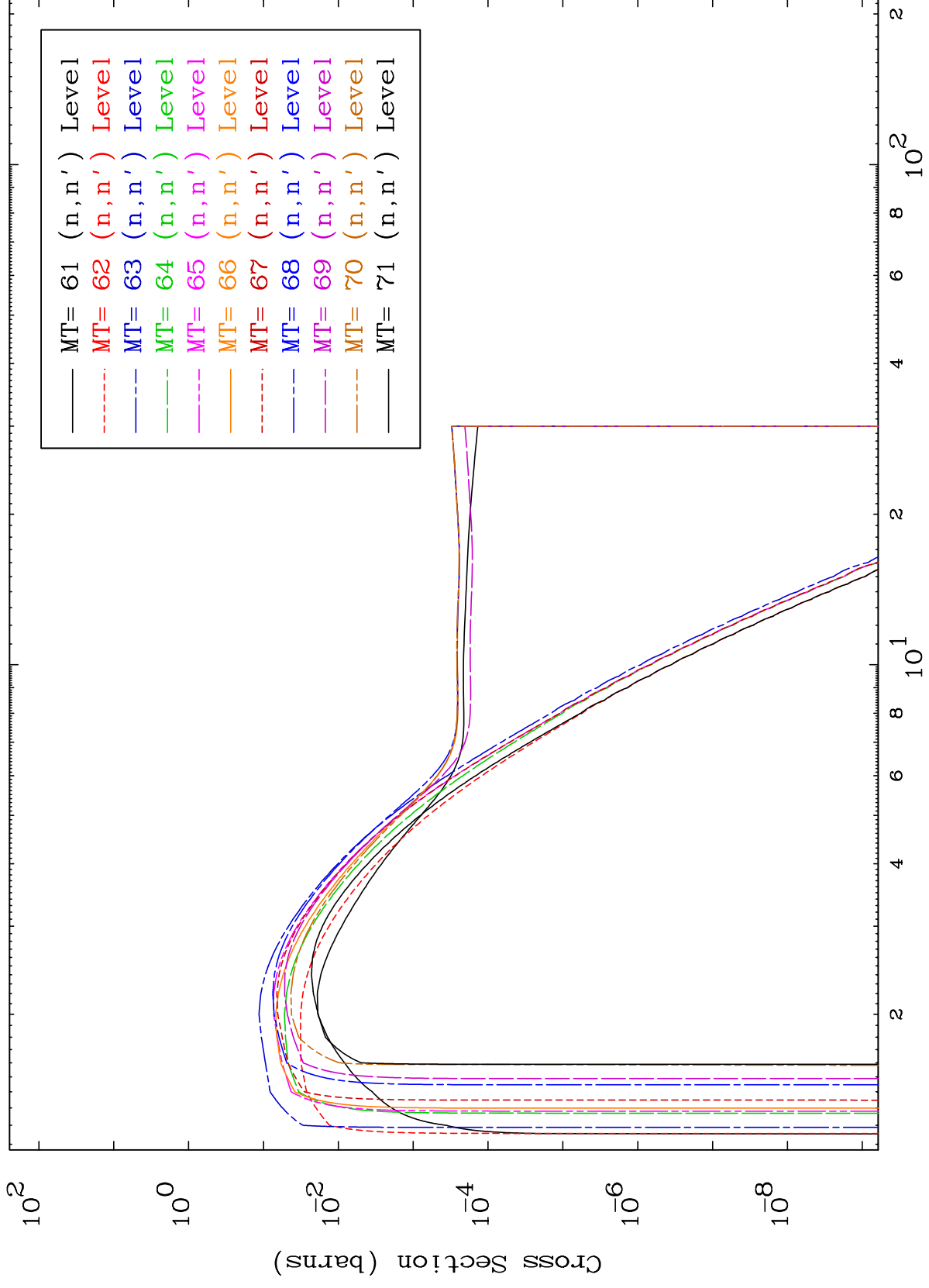


MAT 5828

(n,n') Level

58-Ce-137

293 Kelvin Cross Sections

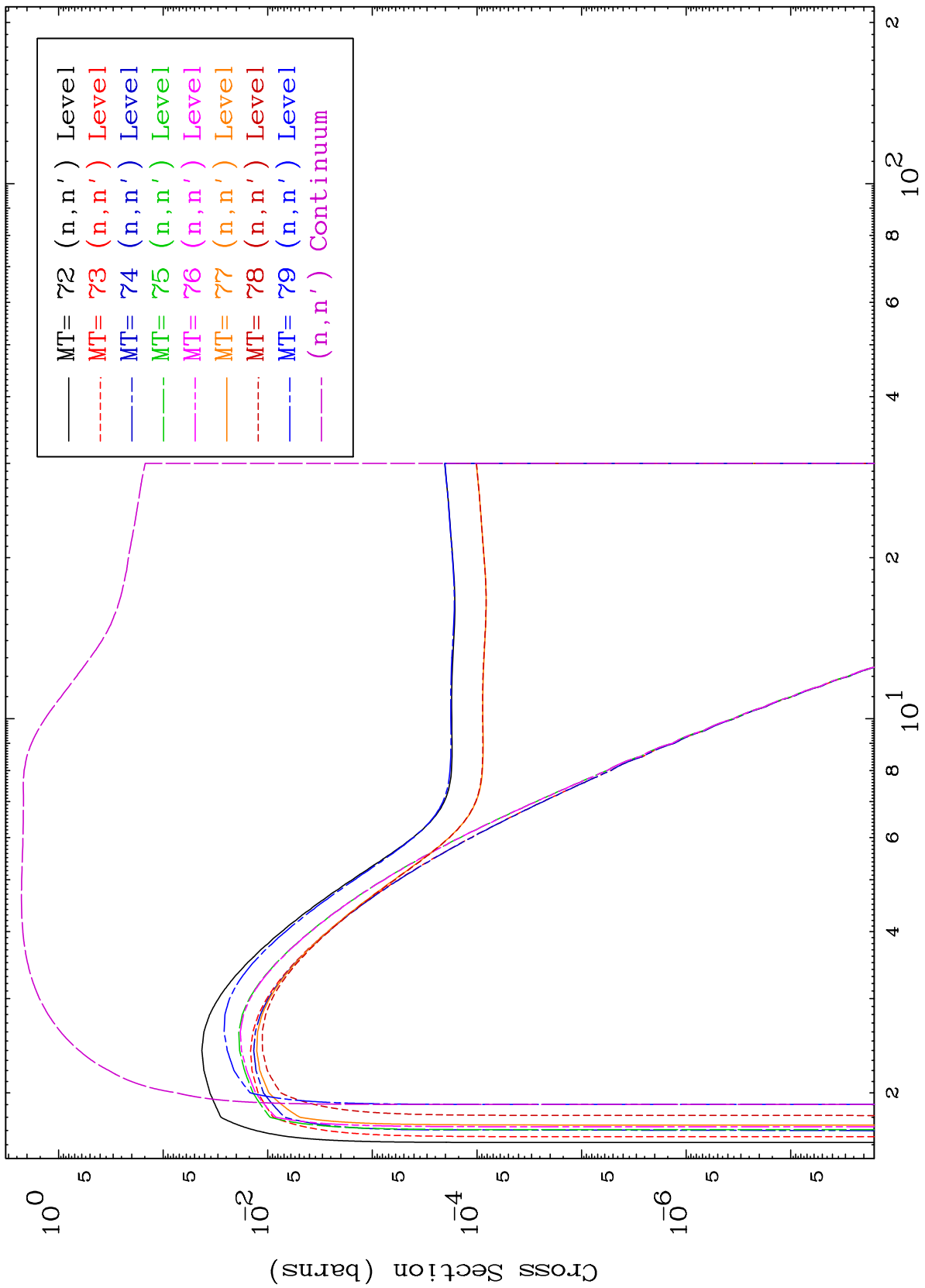


8

Incident Energy (MeV)

58-Ce-137

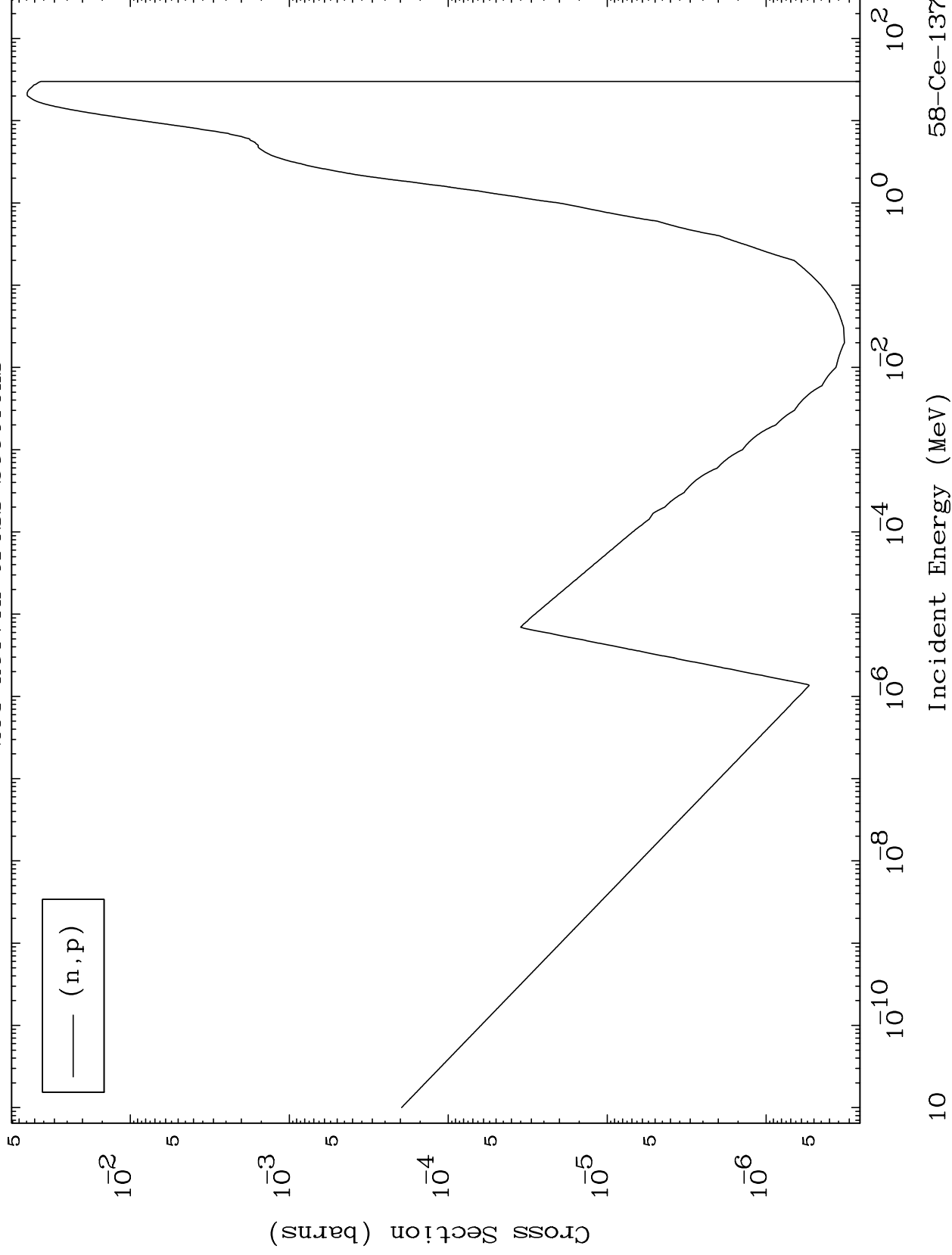
293 Kelvin Cross Sections



MAT 5828

(n,p) Levels  
293 Kelvin Cross Sections

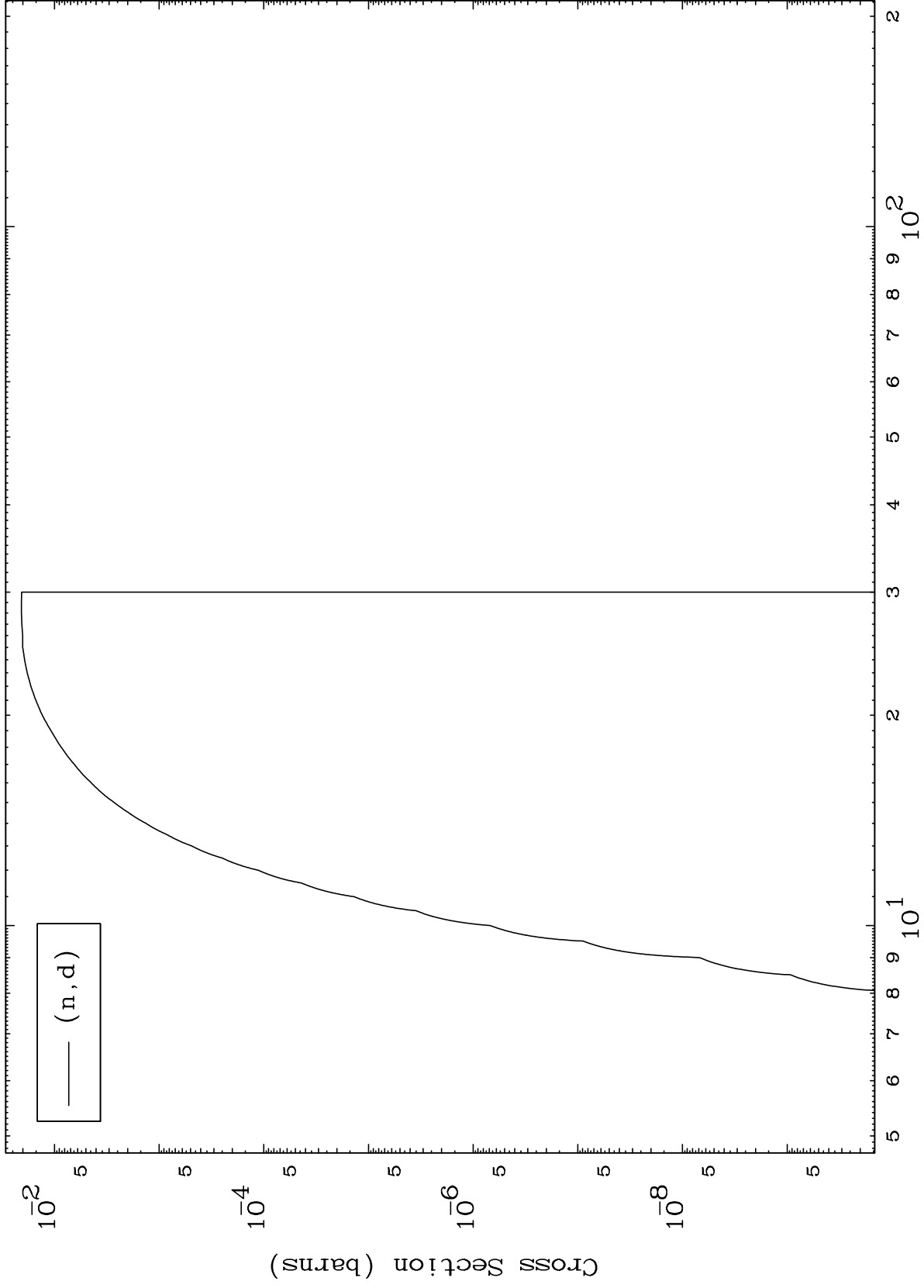
58-Ce-137



MAT 5828

(n,d) Levels  
293 Kelvin Cross Sections

58-Ce-137



11

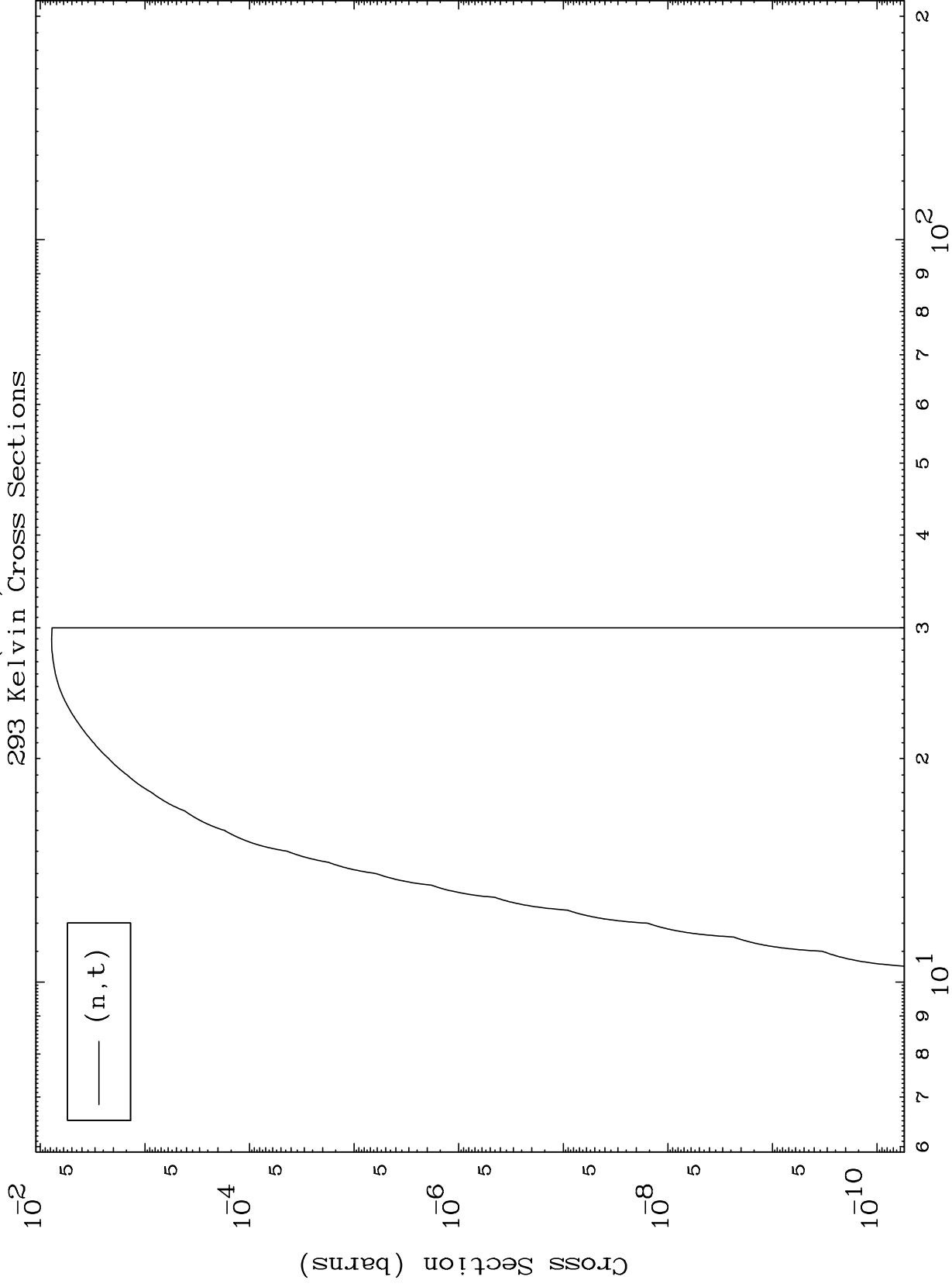
Incident Energy (MeV)

58-Ce-137

MAT 5828

(n,t) Levels  
293 Kelvin Cross Sections

58-Ce-137



12

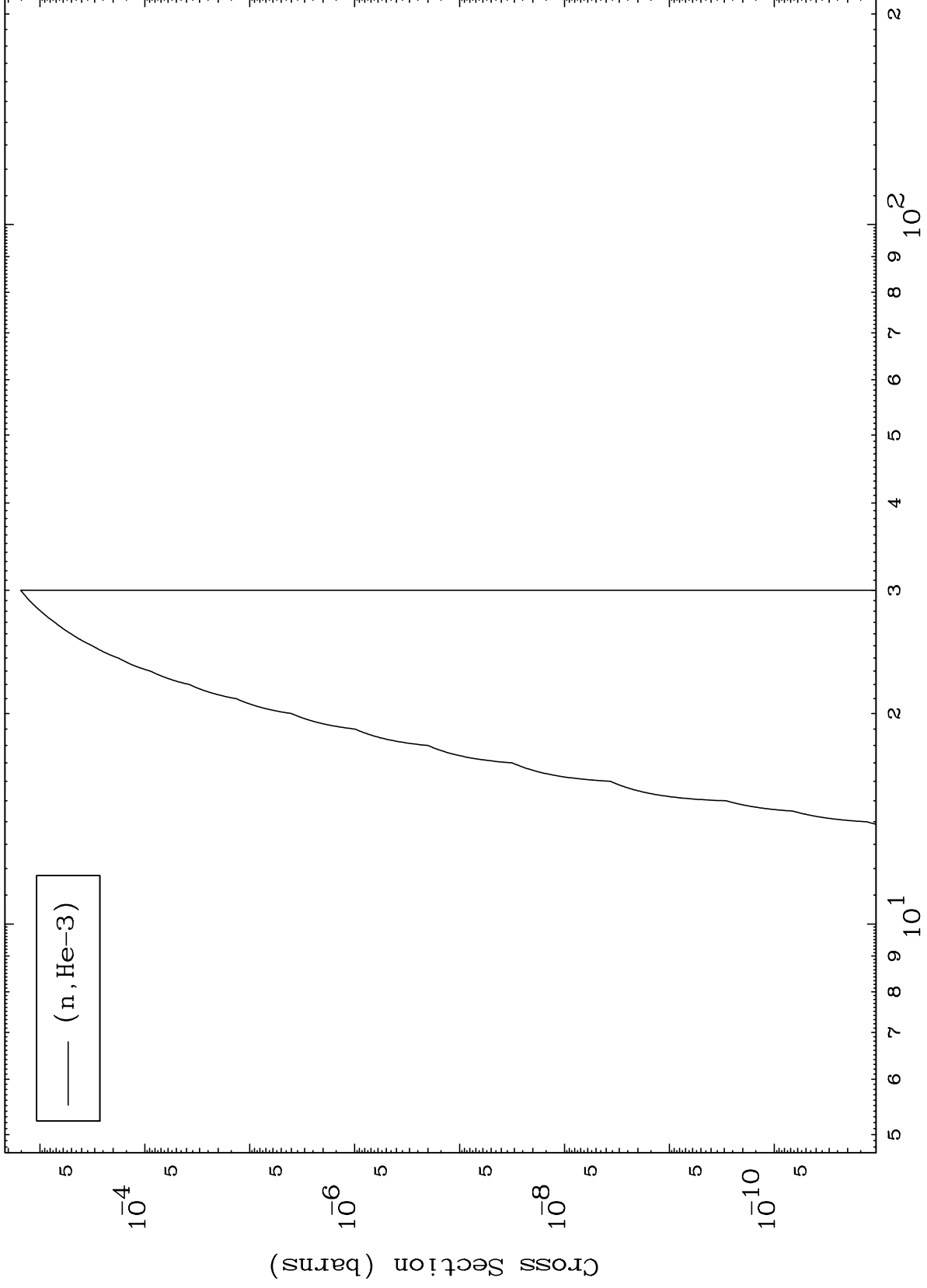
Incident Energy (MeV)

58-Ce-137

MAT 5828

(n,He3) Levels  
293 Kelvin Cross Sections

58-Ce-137



13

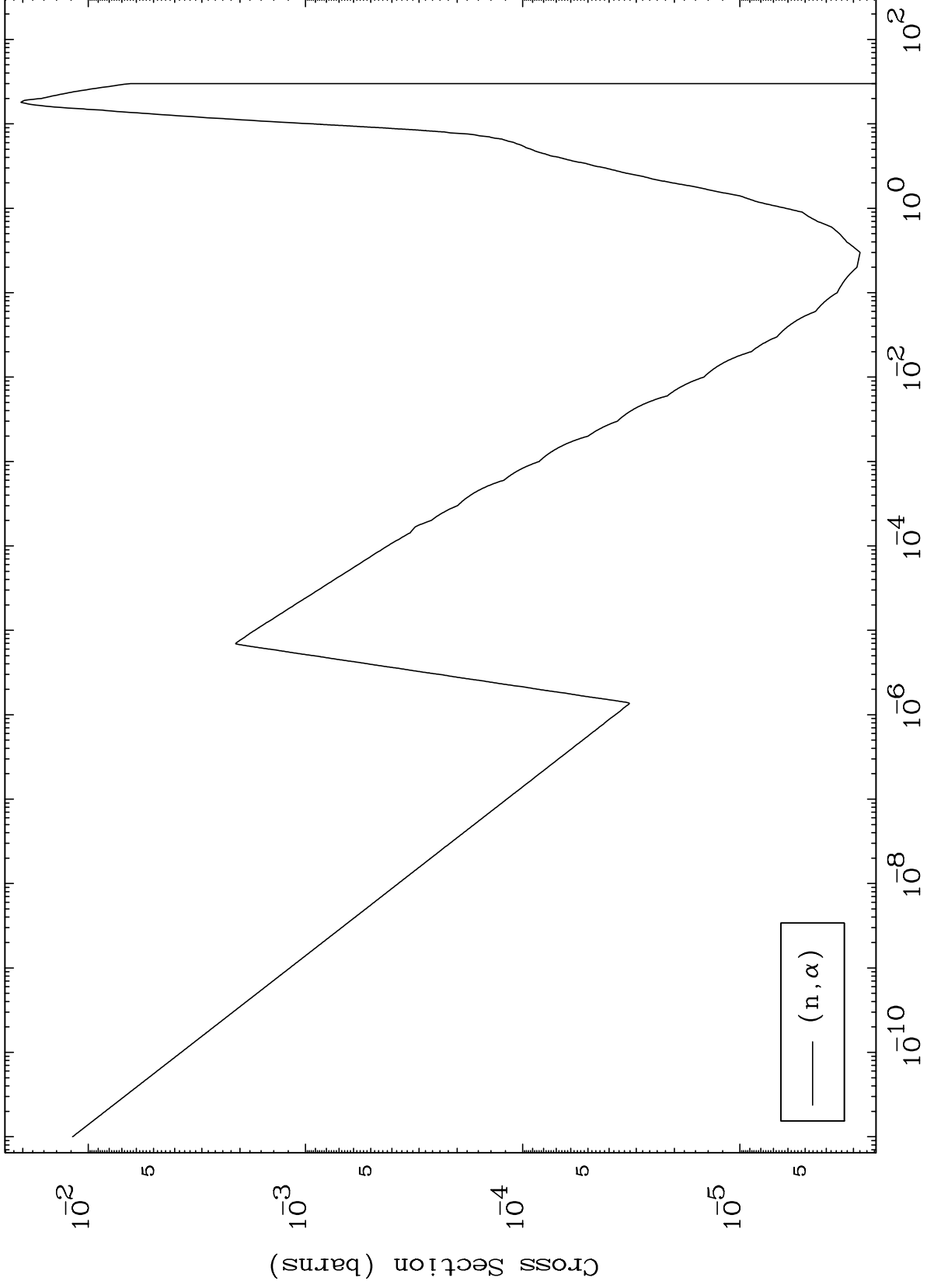
Incident Energy (MeV)

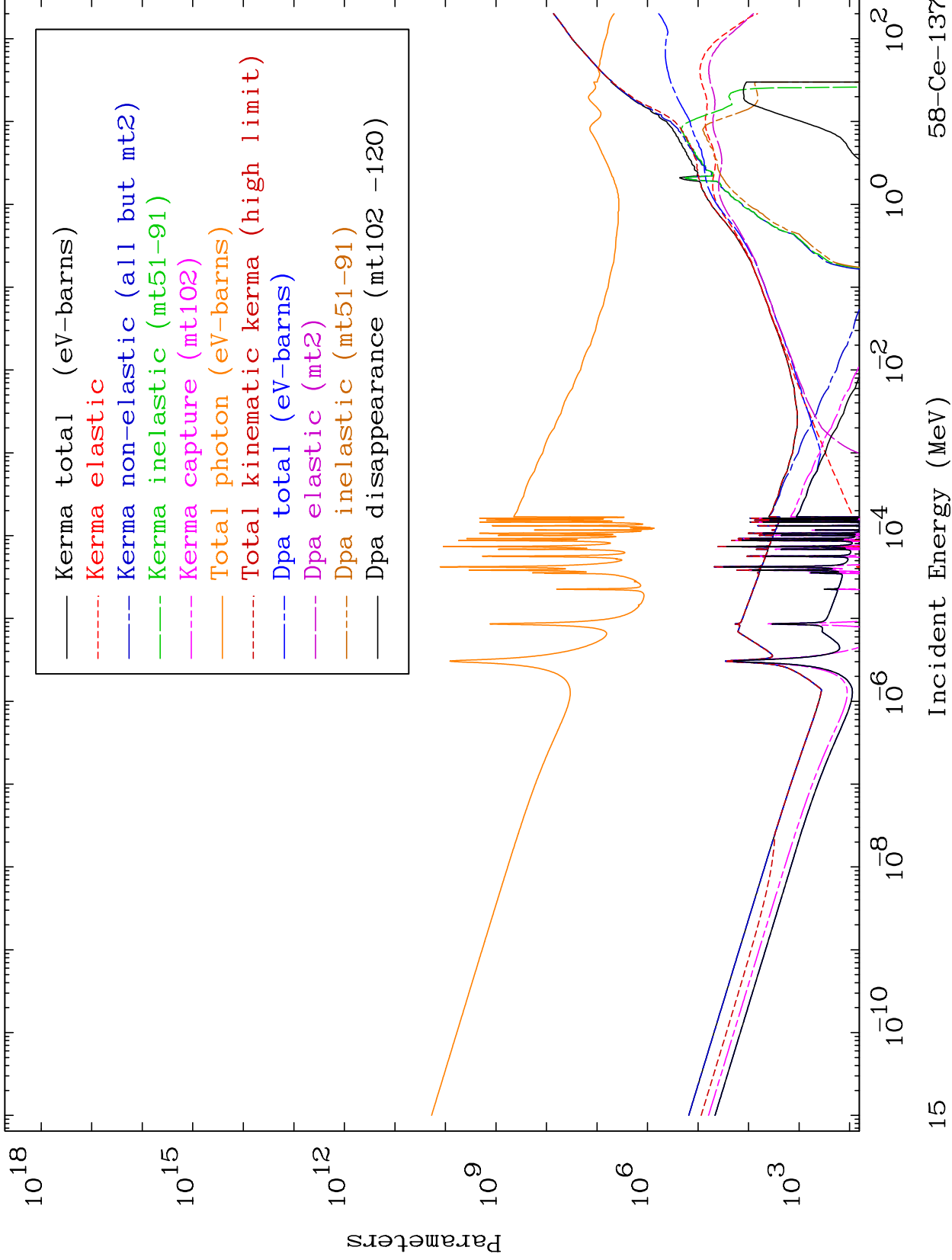
58-Ce-137

MAT 5828

(n,α) Levels  
293 Kelvin Cross Sections

58-Ce-137



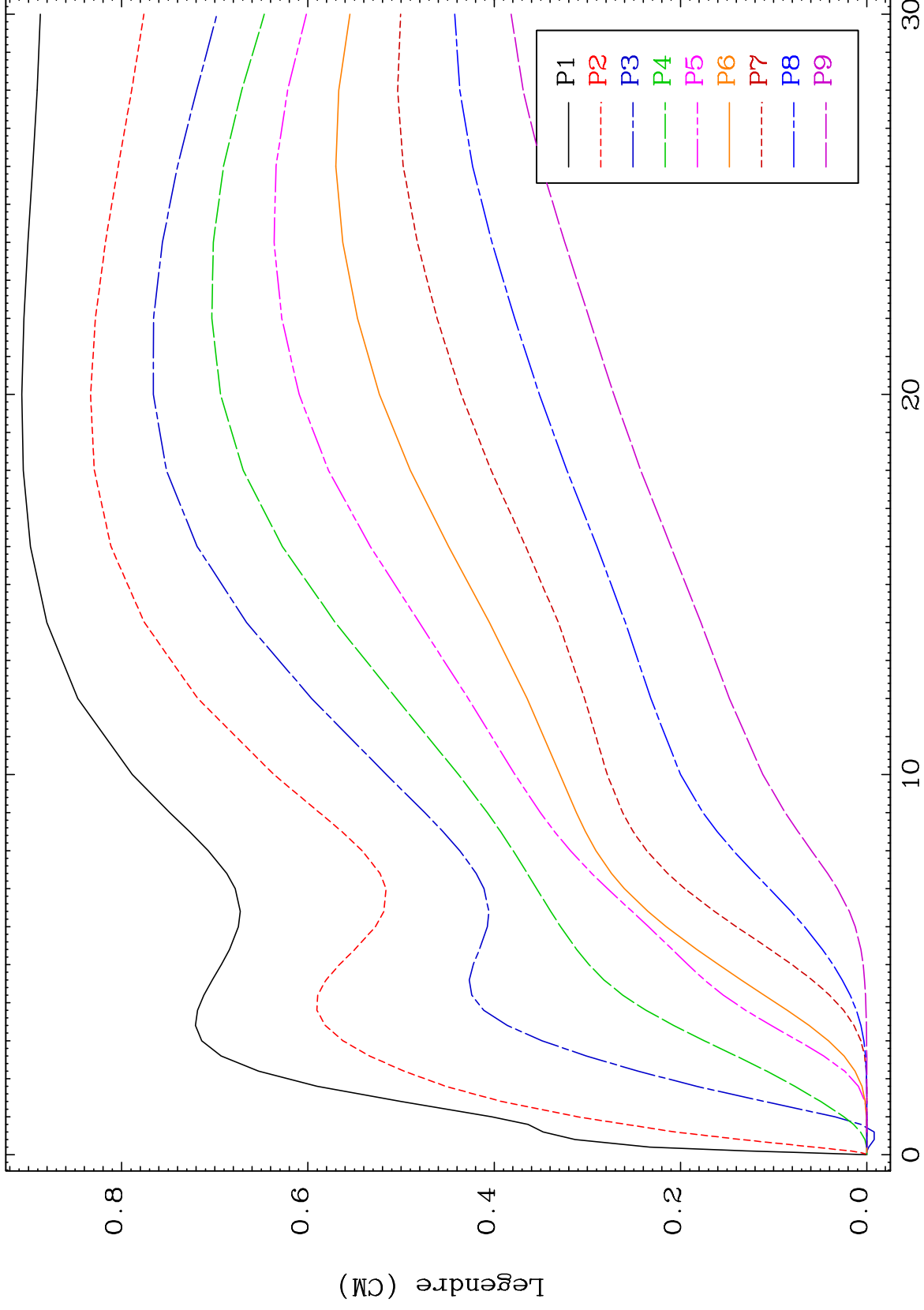




MAT 5828

Elastic Legendre Coefficients

58-Ce-137



16

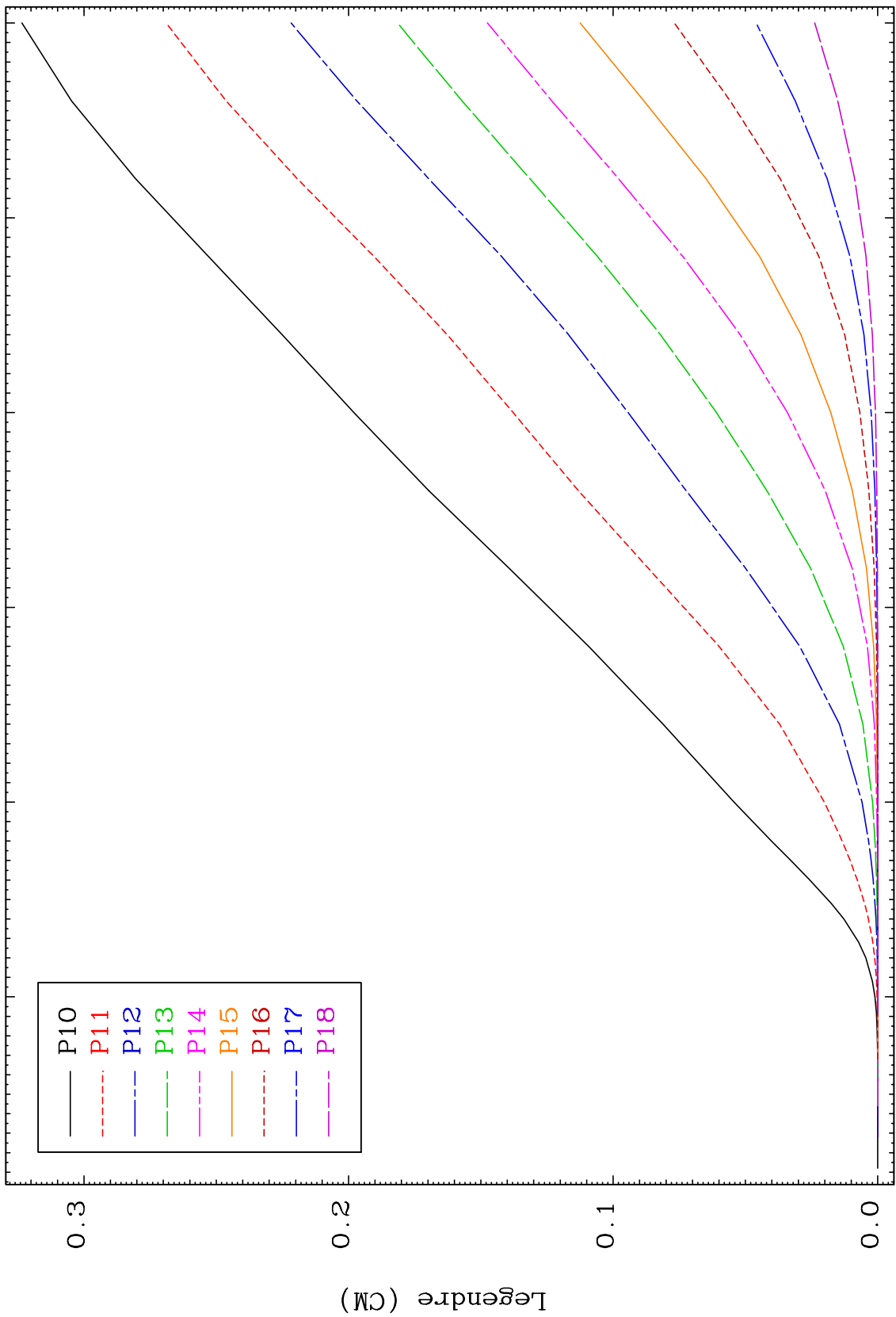
Incident Energy (MeV)

58-Ce-137

MAT 5828

Elastic Legendre Coefficients

58-Ce-137



17

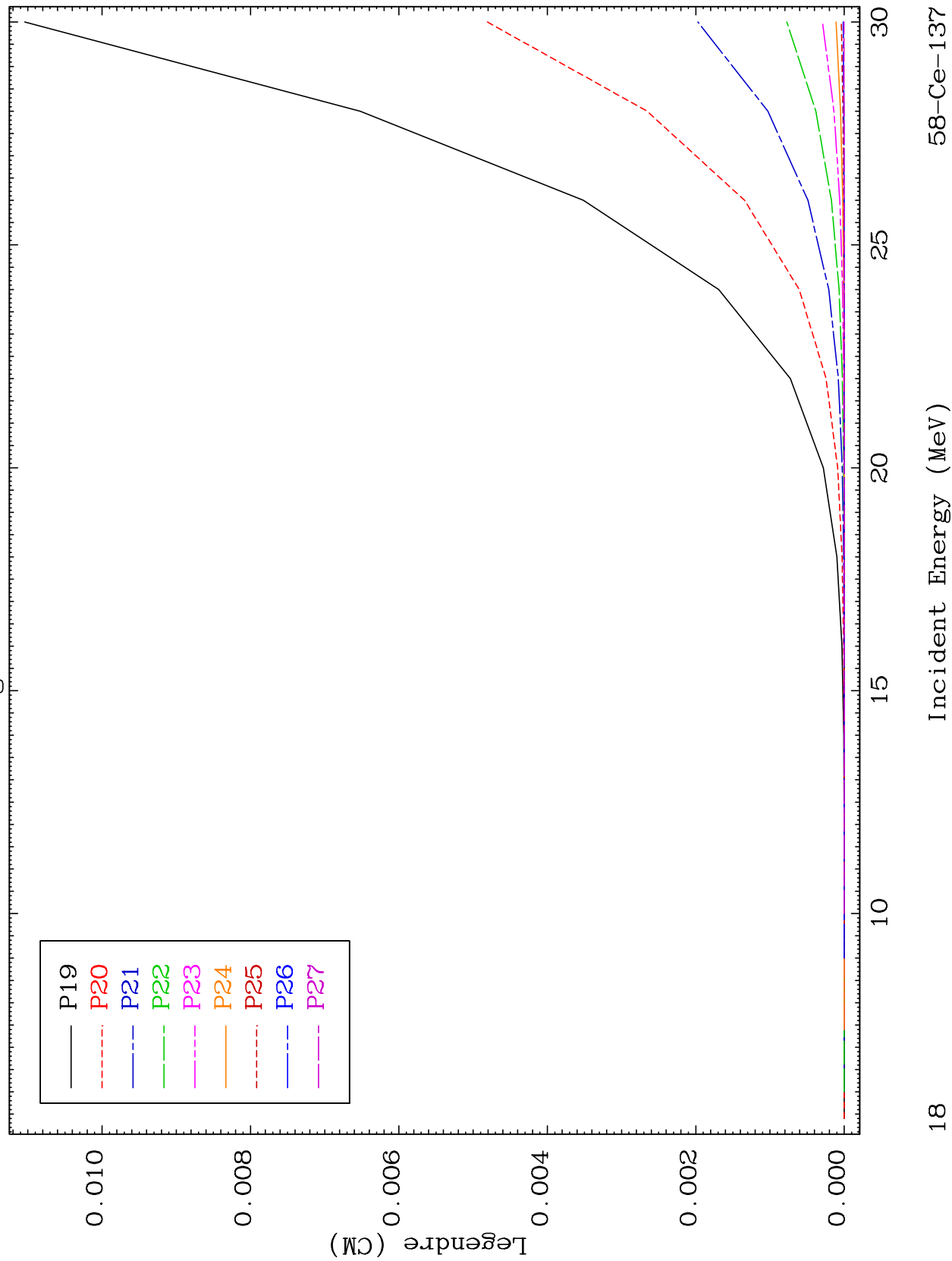
Incident Energy (MeV)

58-Ce-137

MAT 5828

### Elastic Legendre Coefficients

58-Ce-137



18

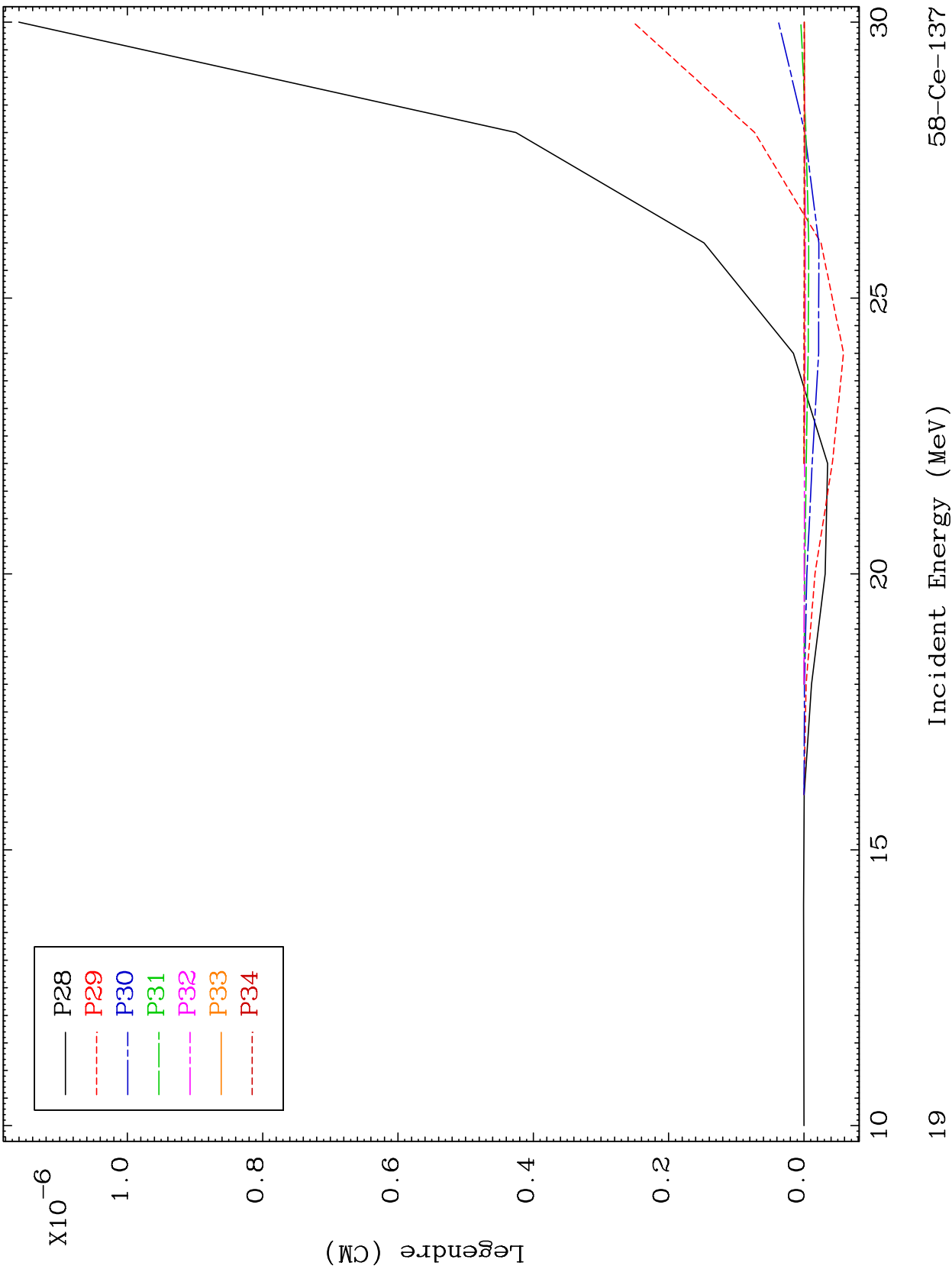
Incident Energy (MeV)

58-Ce-137

MAT 5828

Elastic Legendre Coefficients

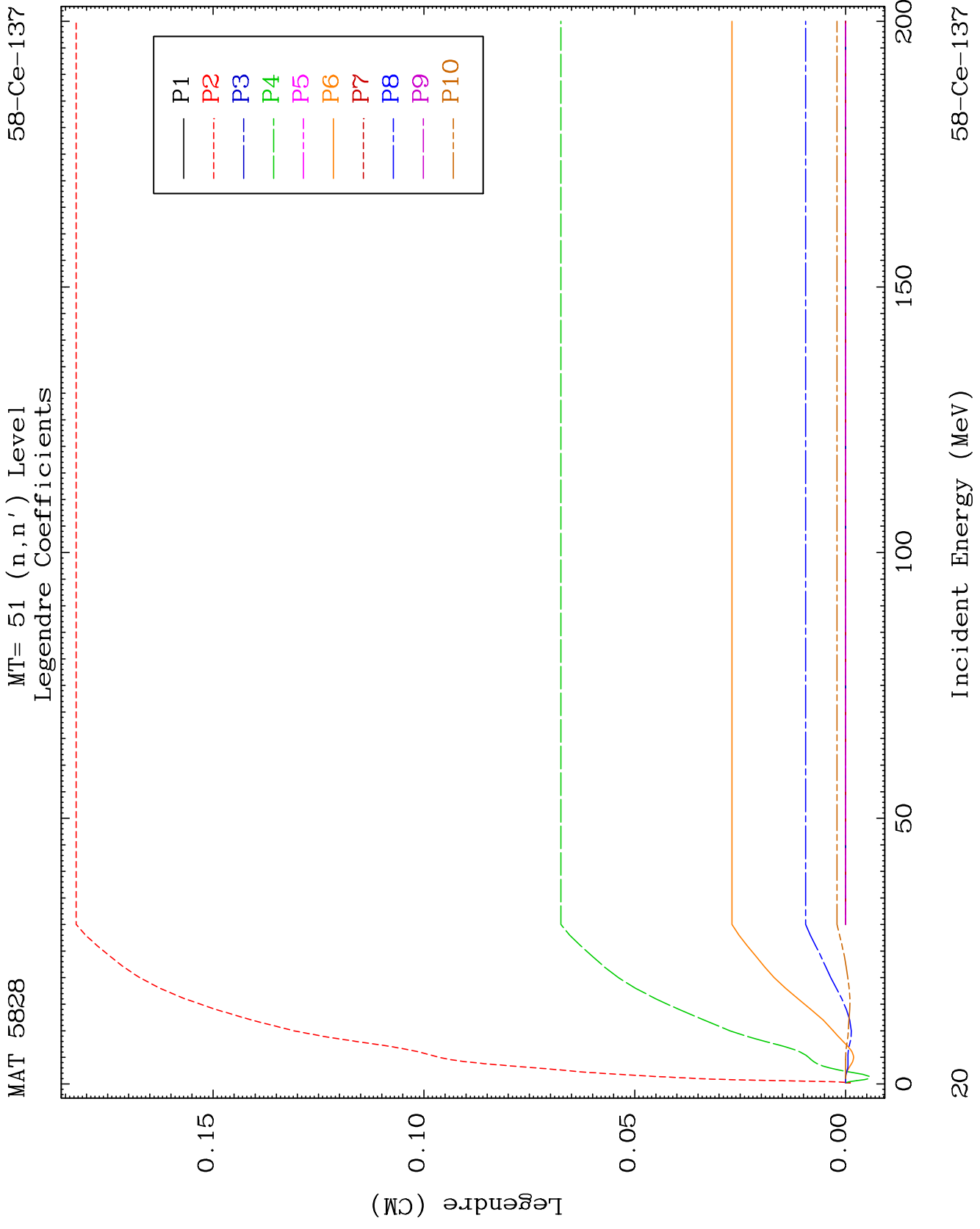
58-Ce-137



19

Incident Energy (MeV)

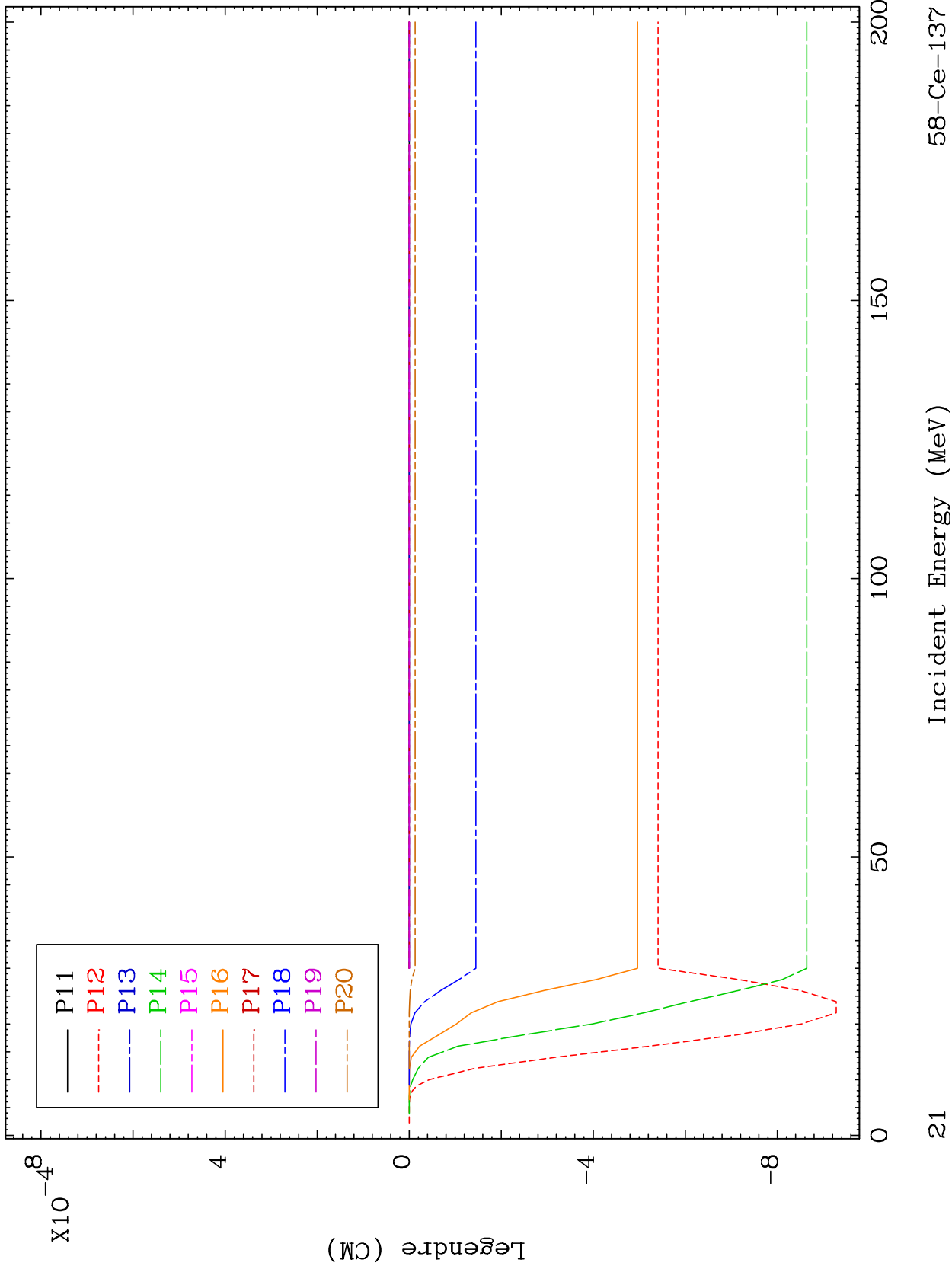
58-Ce-137



MAT 5828

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

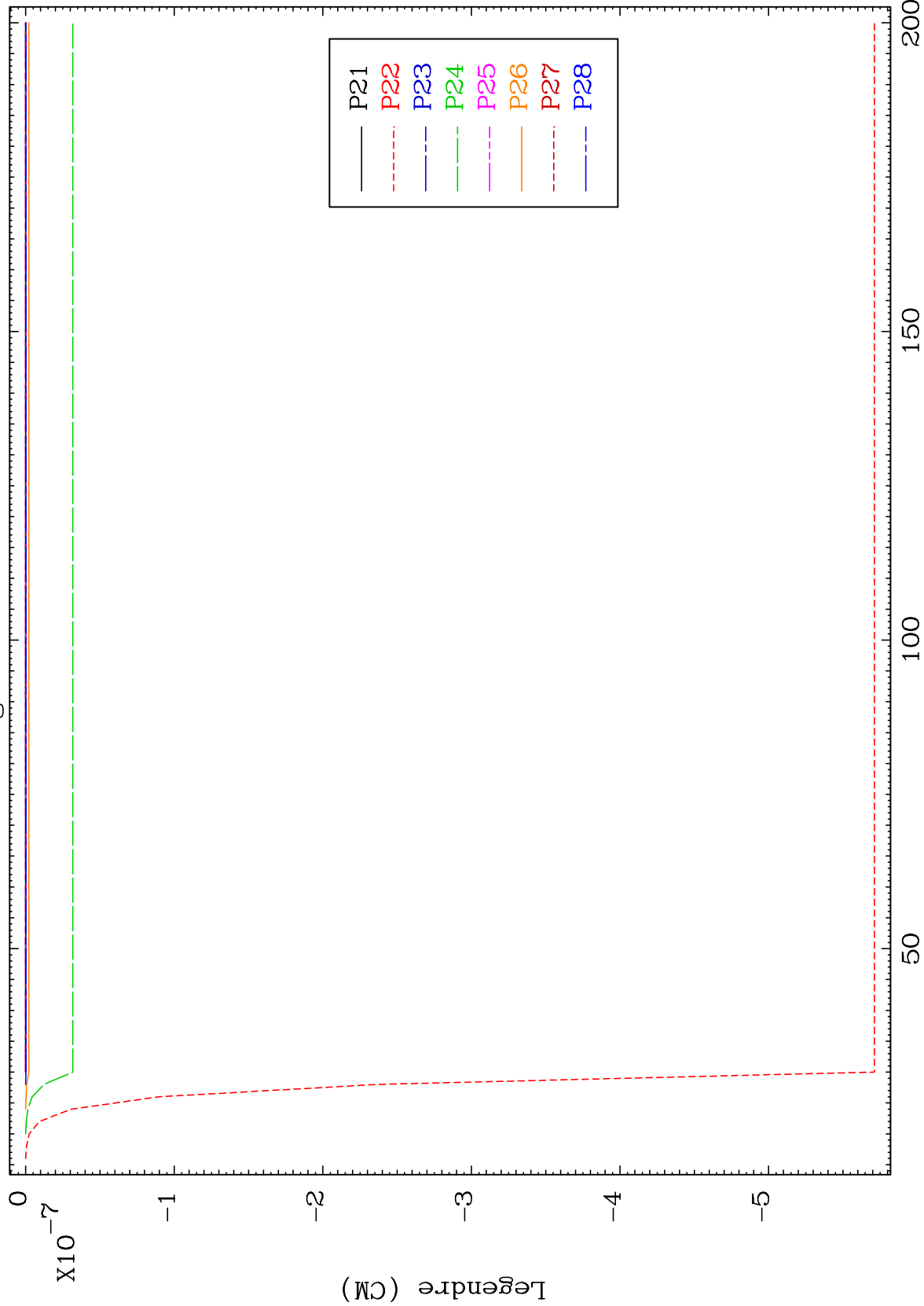
58-Ce-137



MAT 5828

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

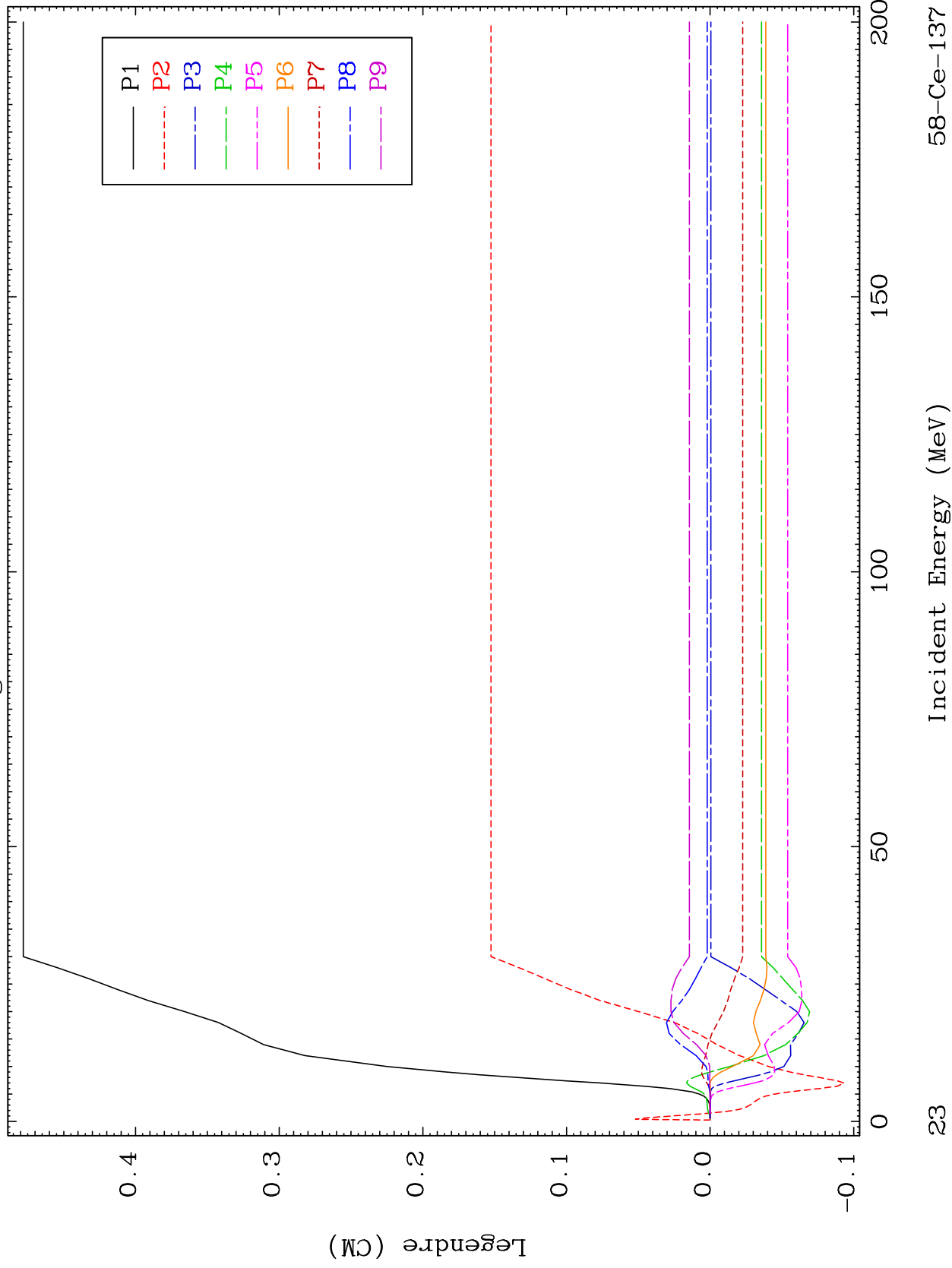
58-Ce-137



MAT 5828

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

58-Ce-137



23

Incident Energy (MeV)

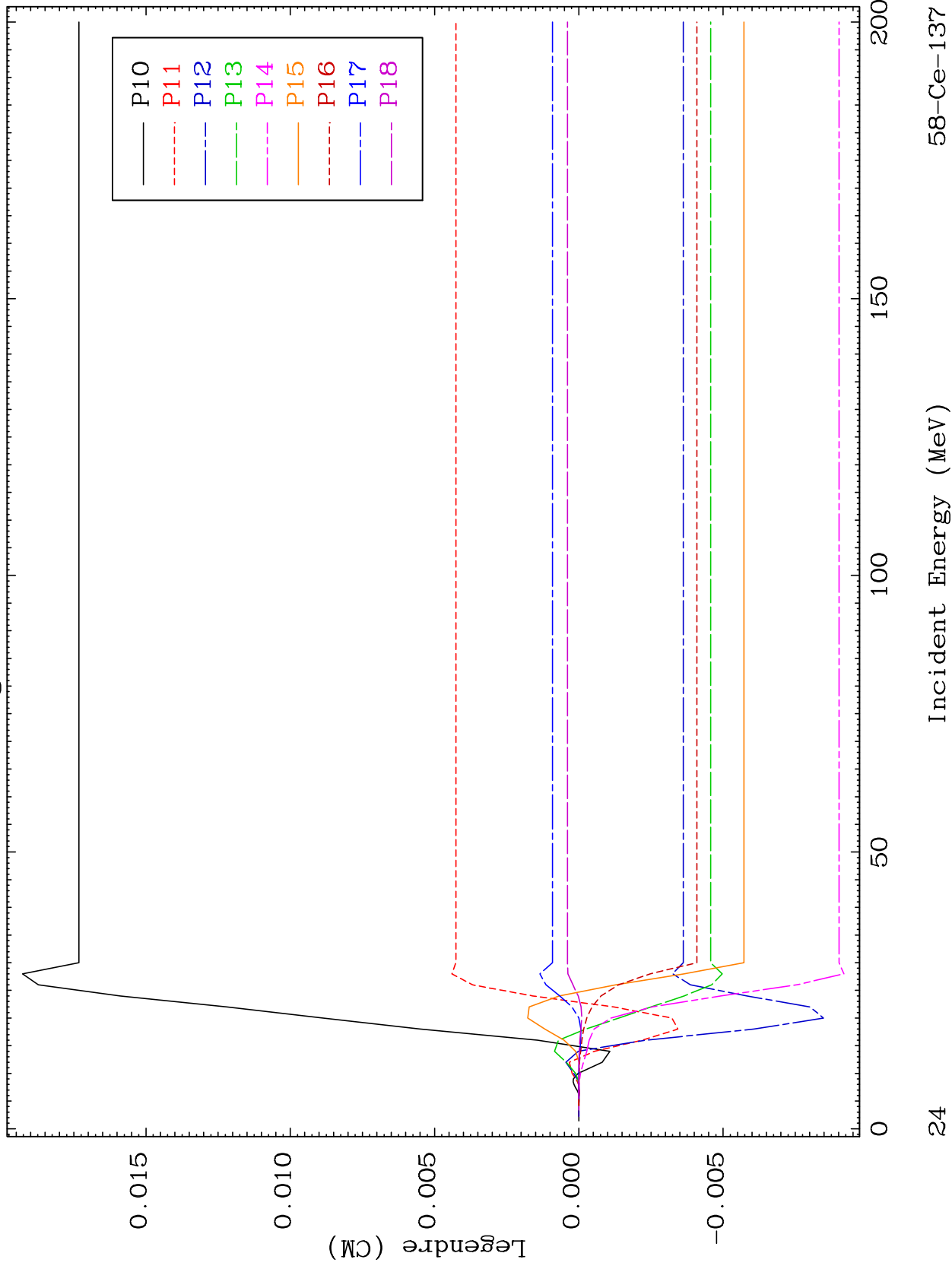
58-Ce-137



MAT 5828

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

58-Ce-137



58-Ce-137

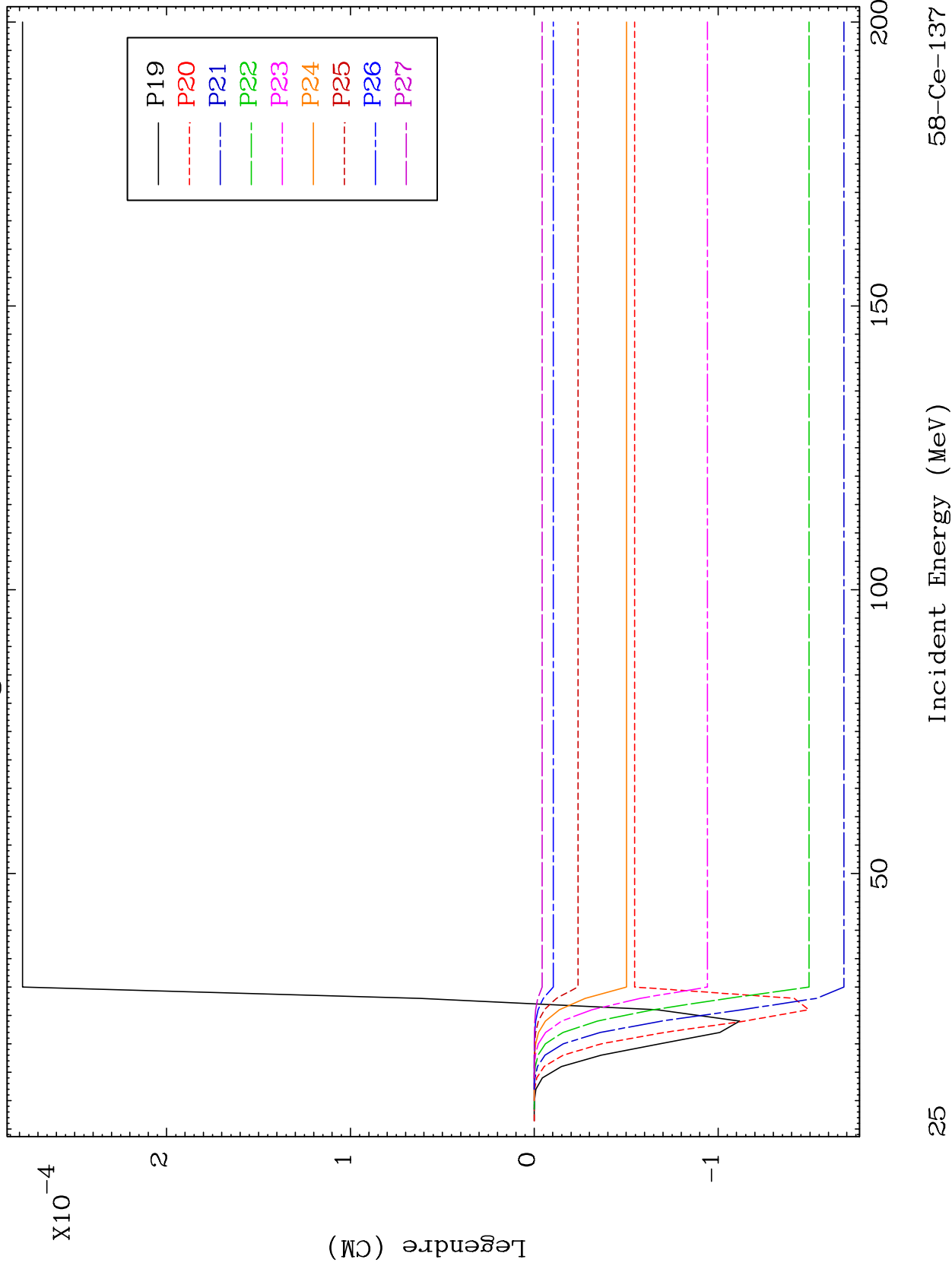
Incident Energy (MeV)

24

MAT 5828

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

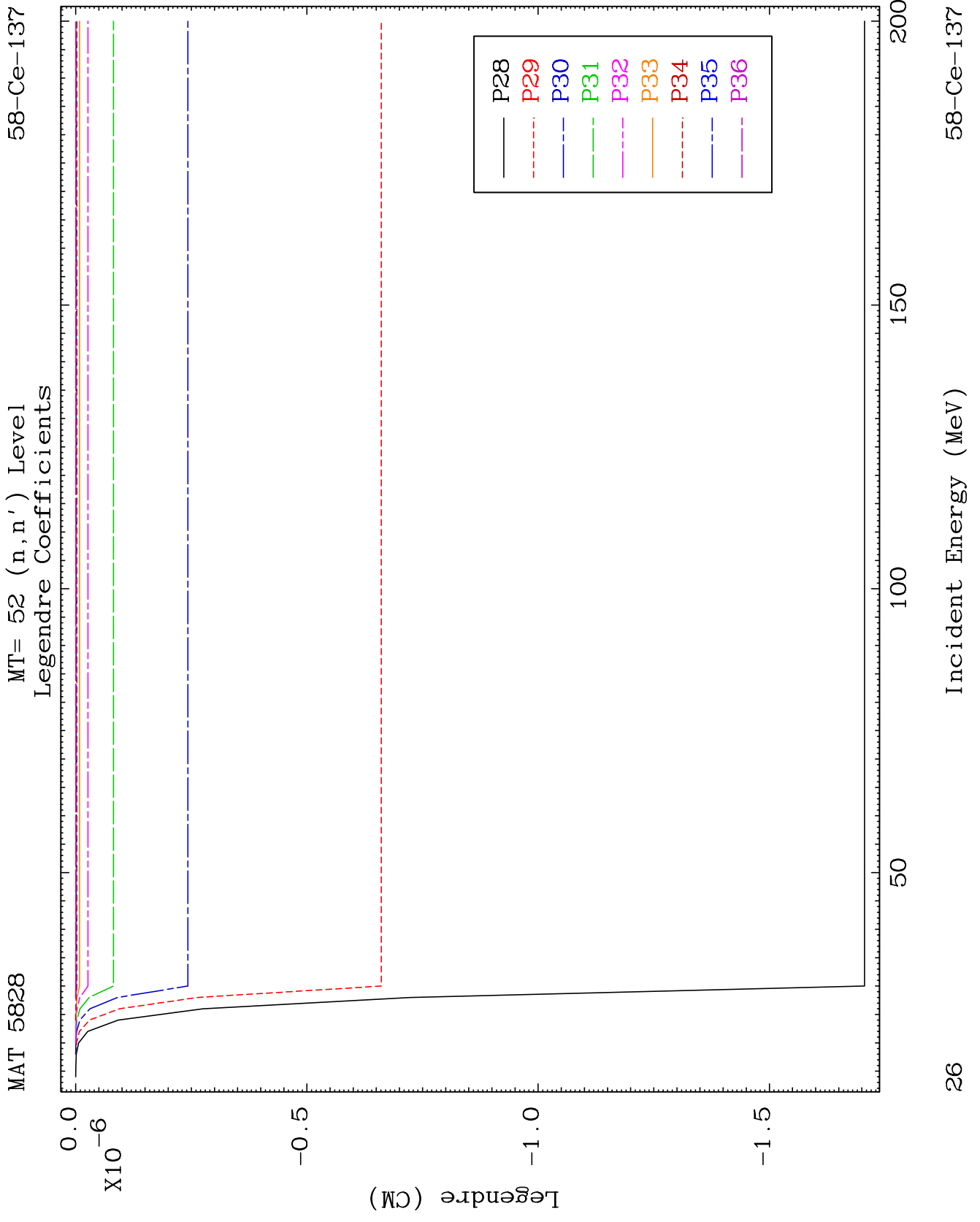
58-Ce-137



25

Incident Energy (MeV)

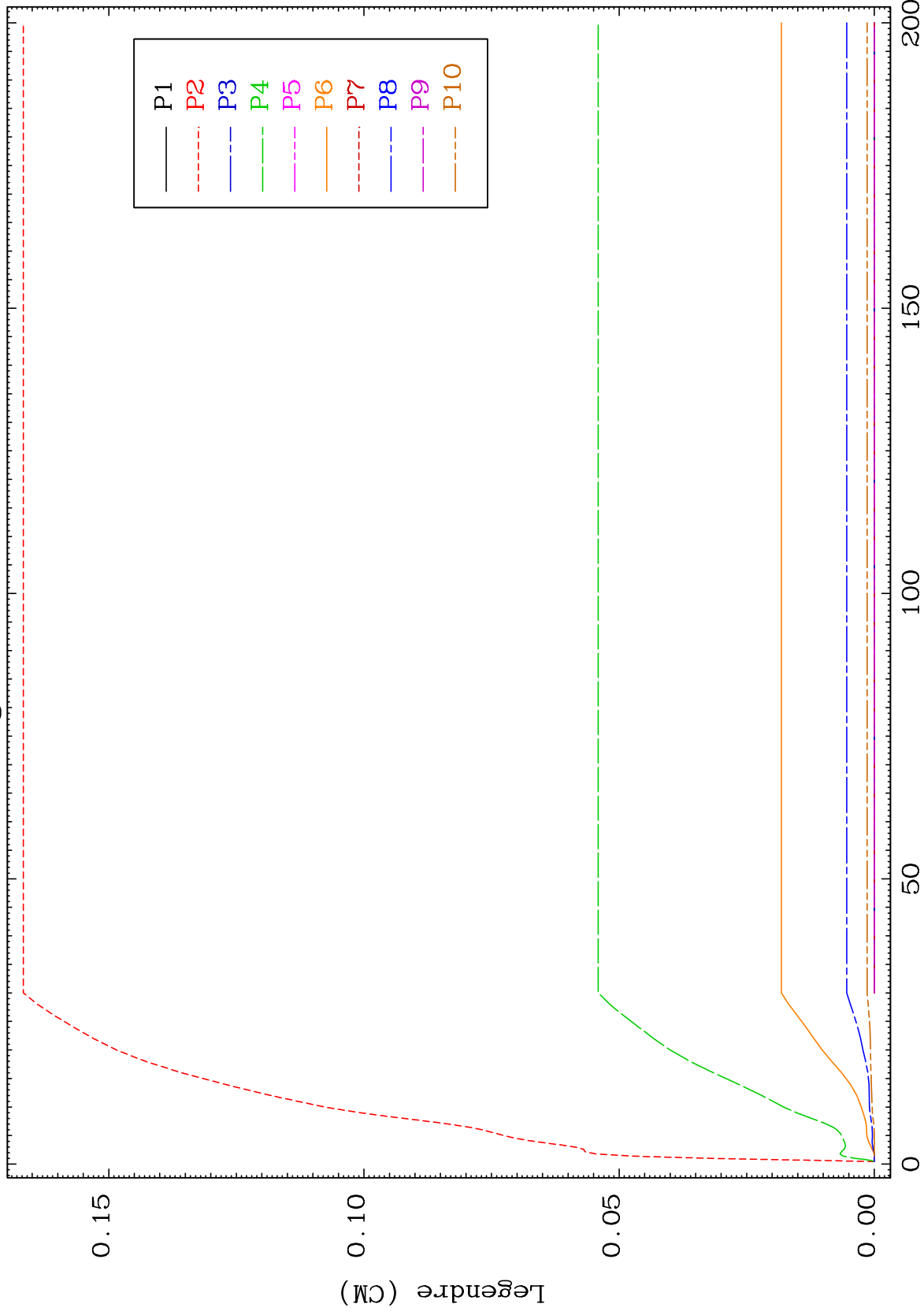
58-Ce-137



MAT 5828

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

58-Ce-137



27

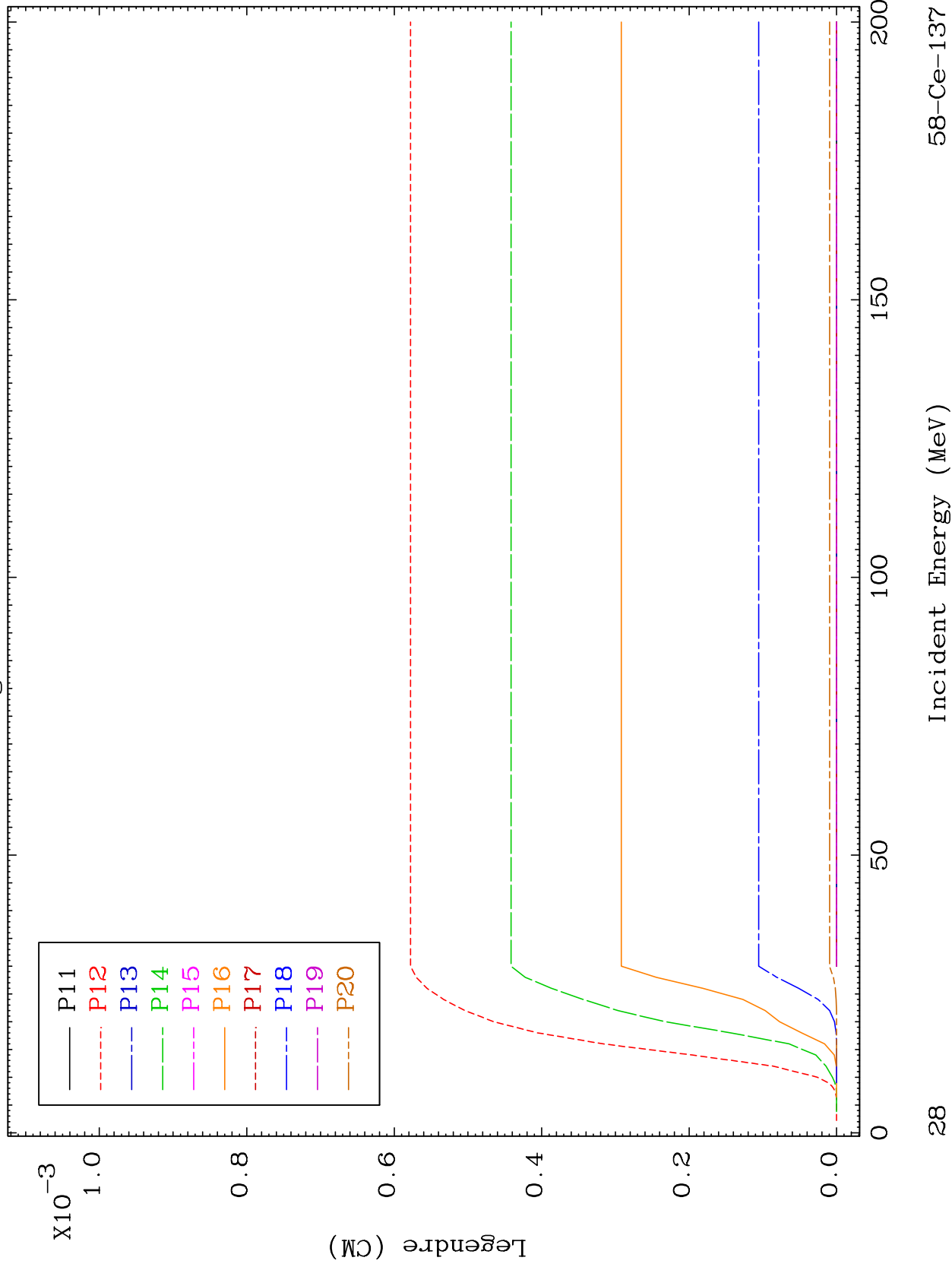
Incident Energy (MeV)

58-Ce-137

MAT 5828

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

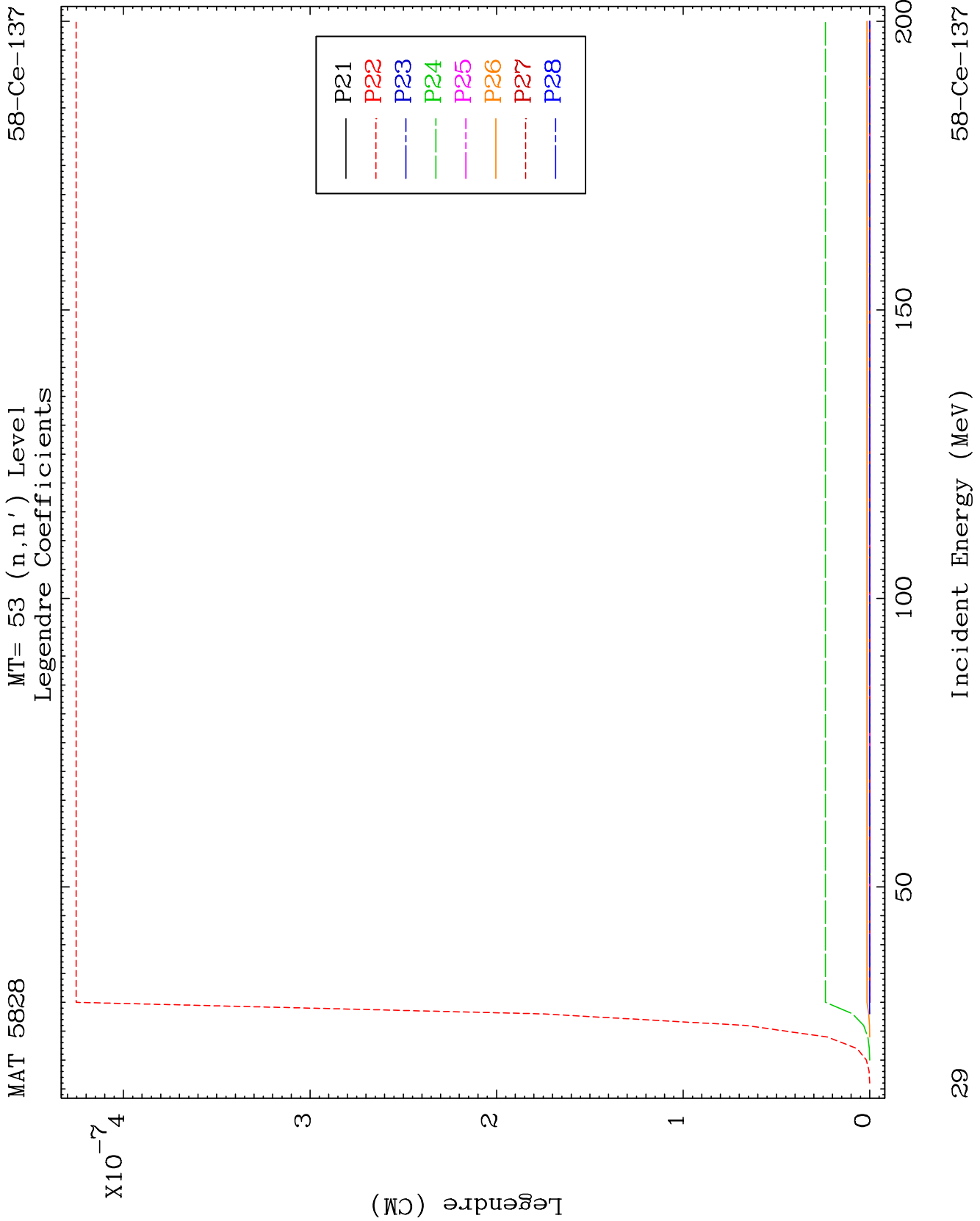
58-Ce-137

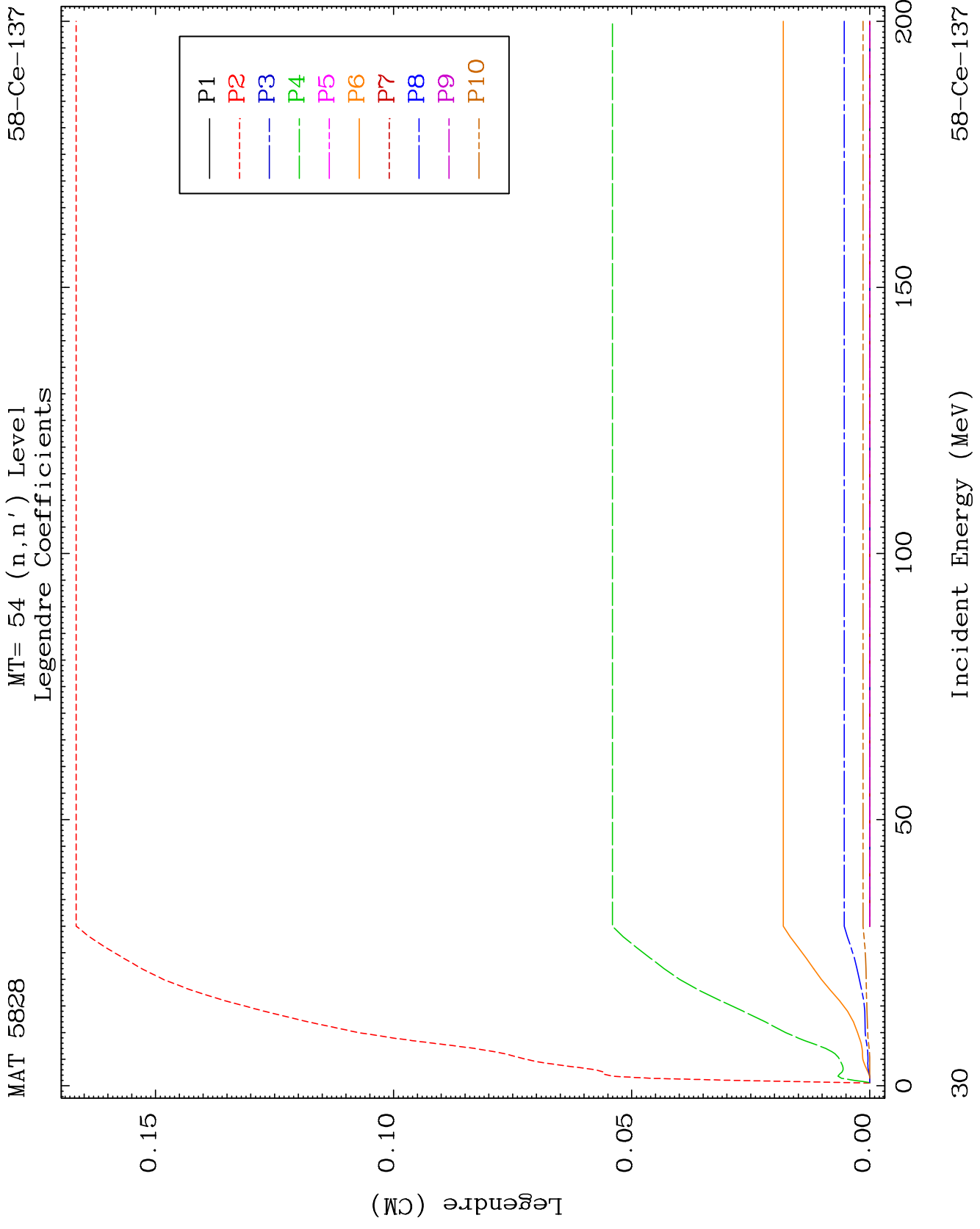


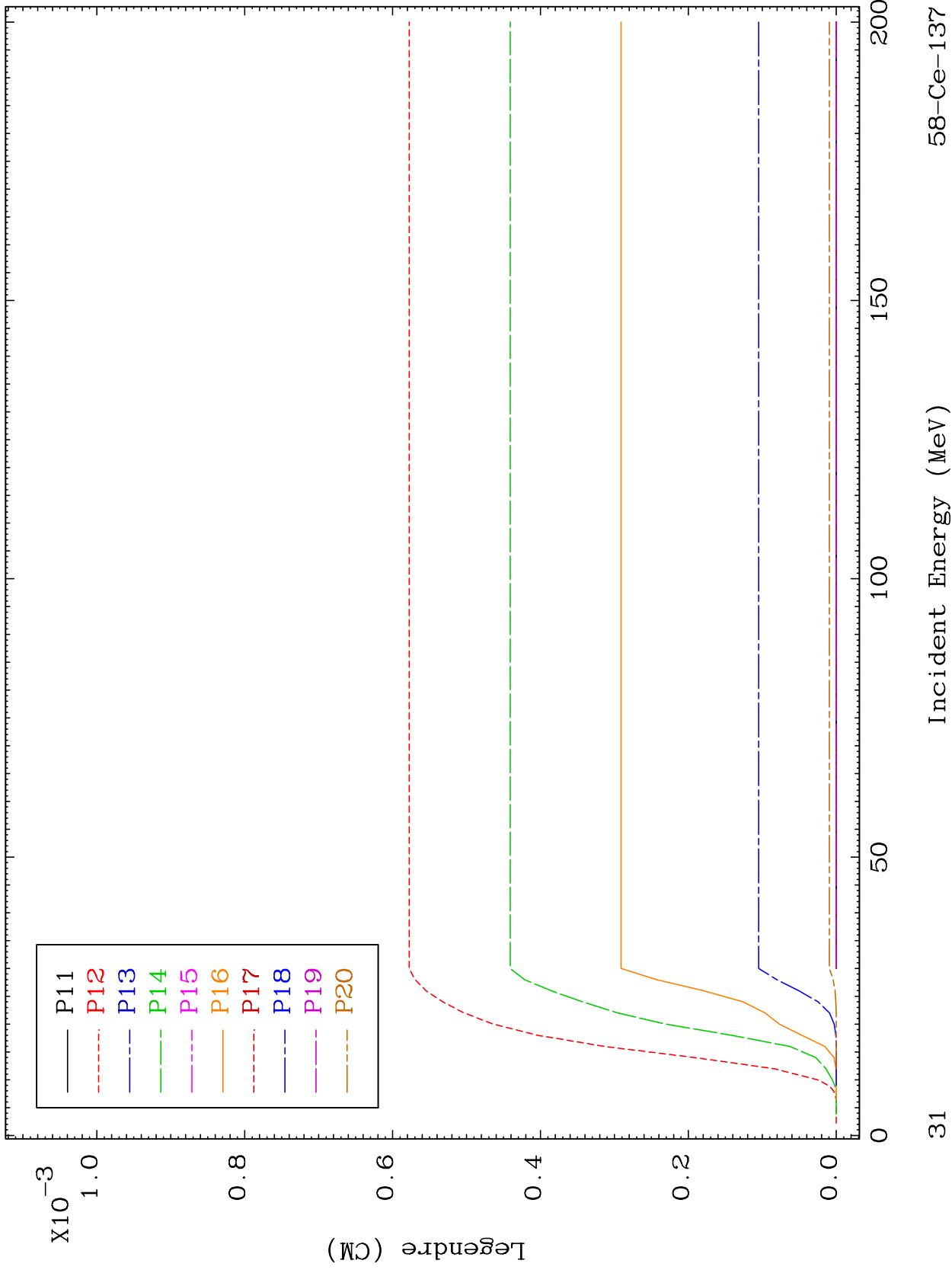
28

Incident Energy (MeV)

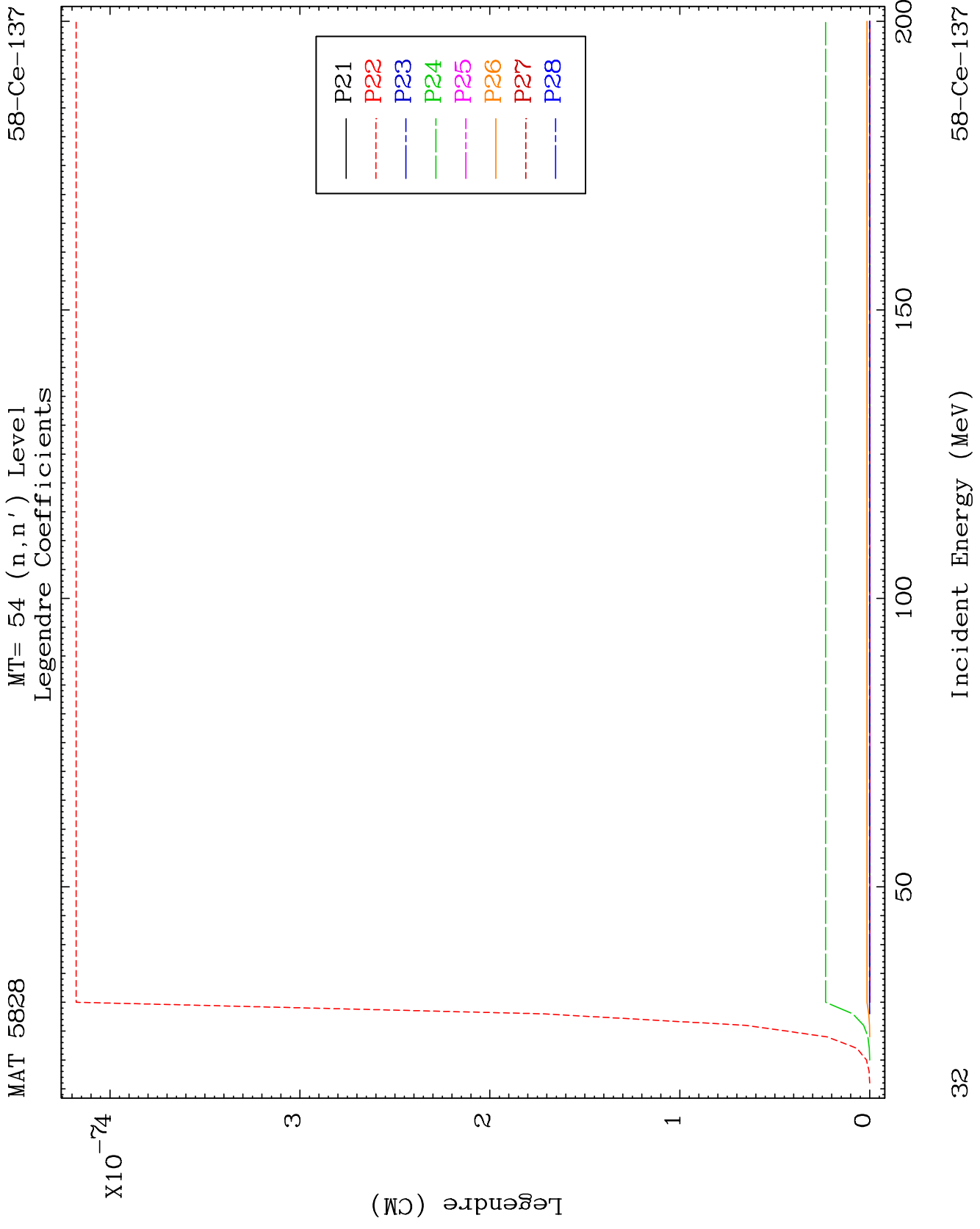
58-Ce-137

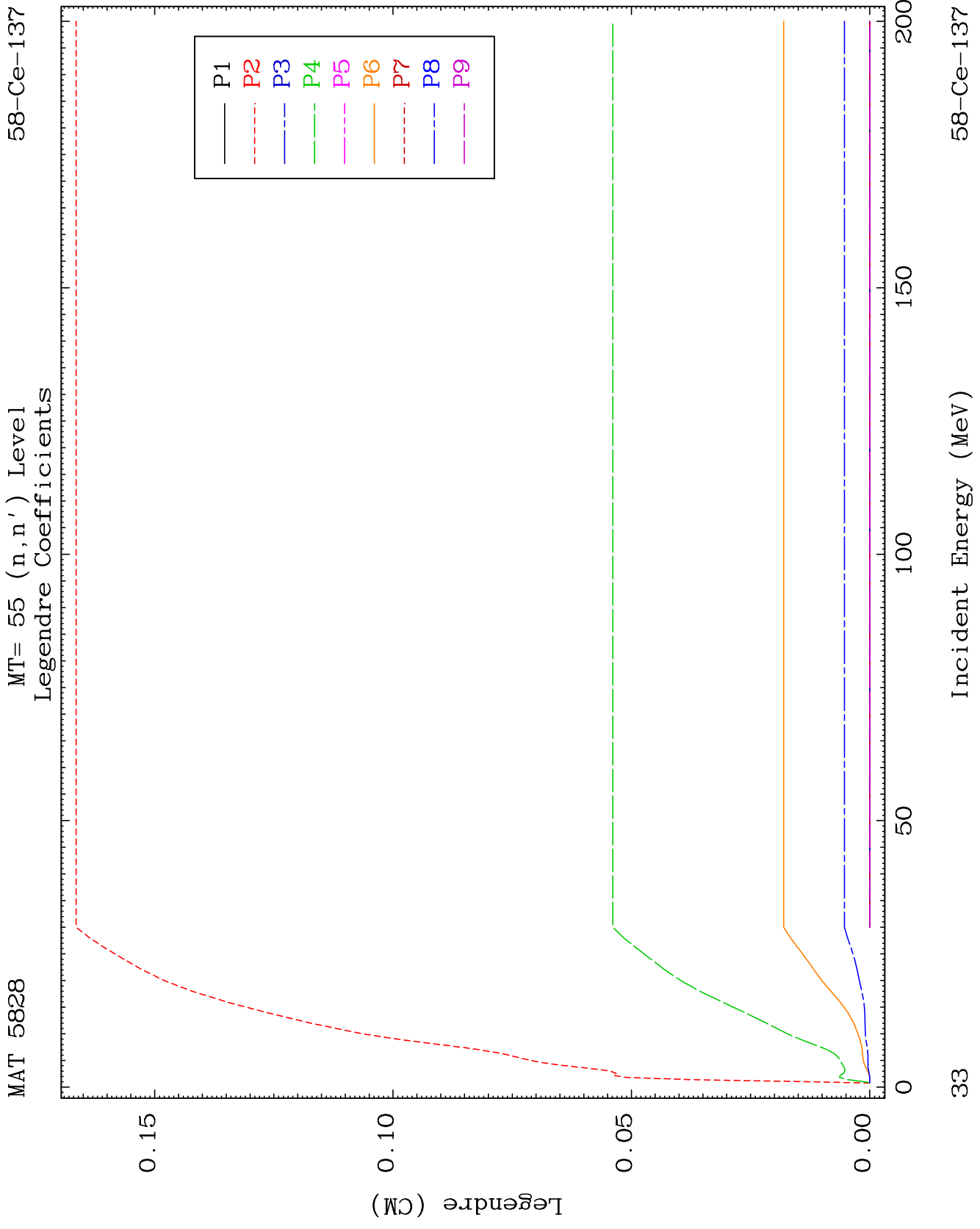








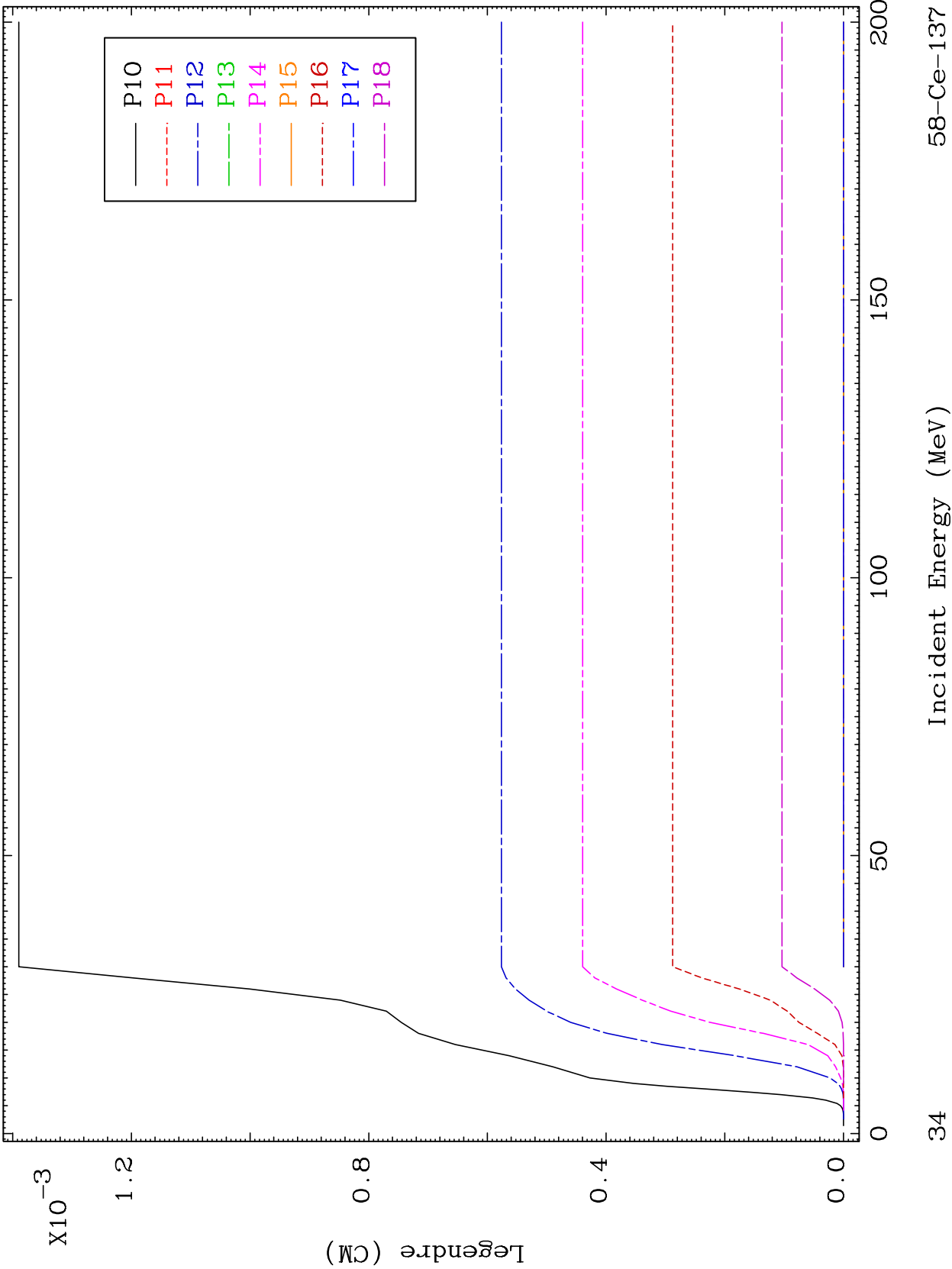




MAT 5828

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

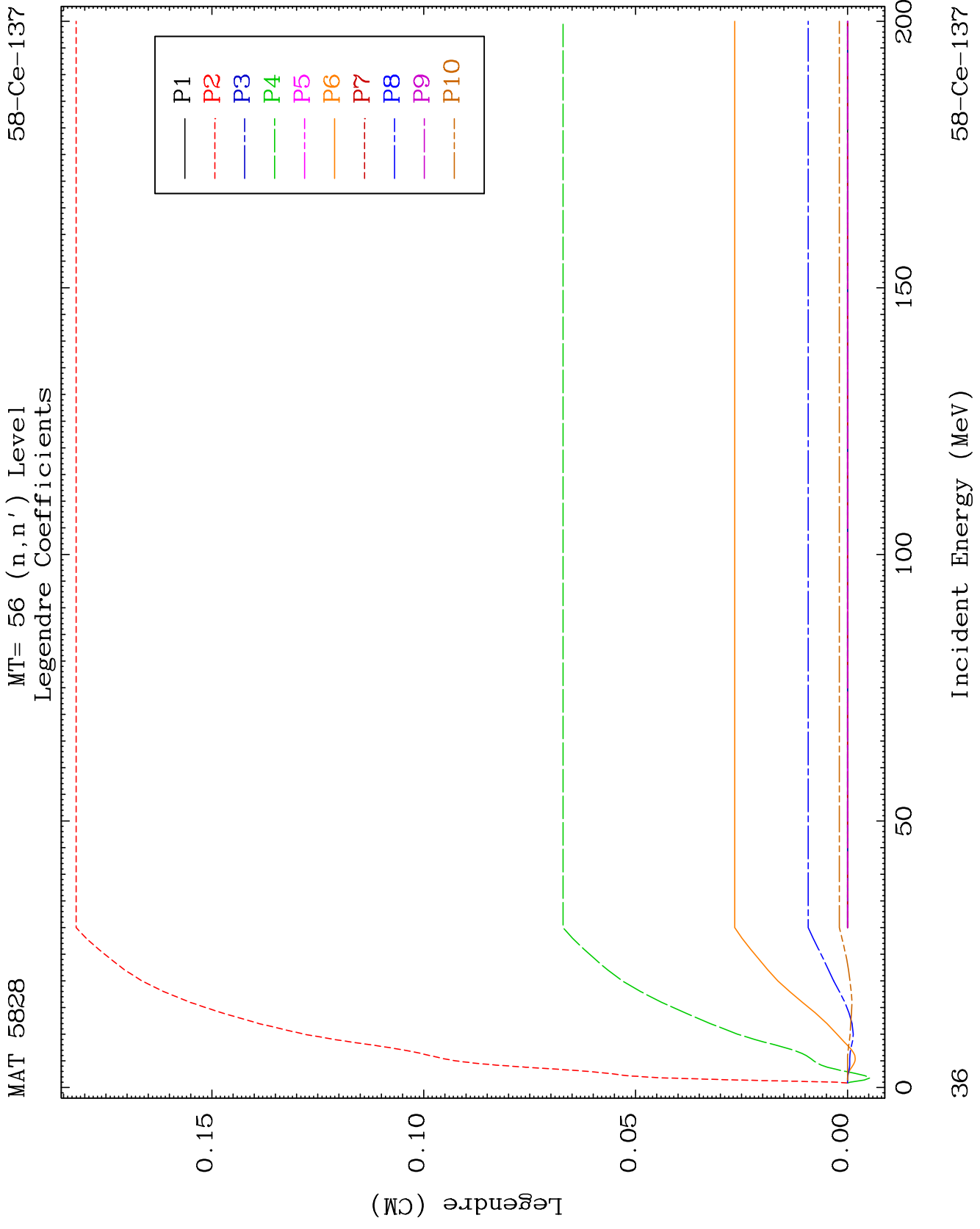
58-Ce-137



34

58-Ce-137

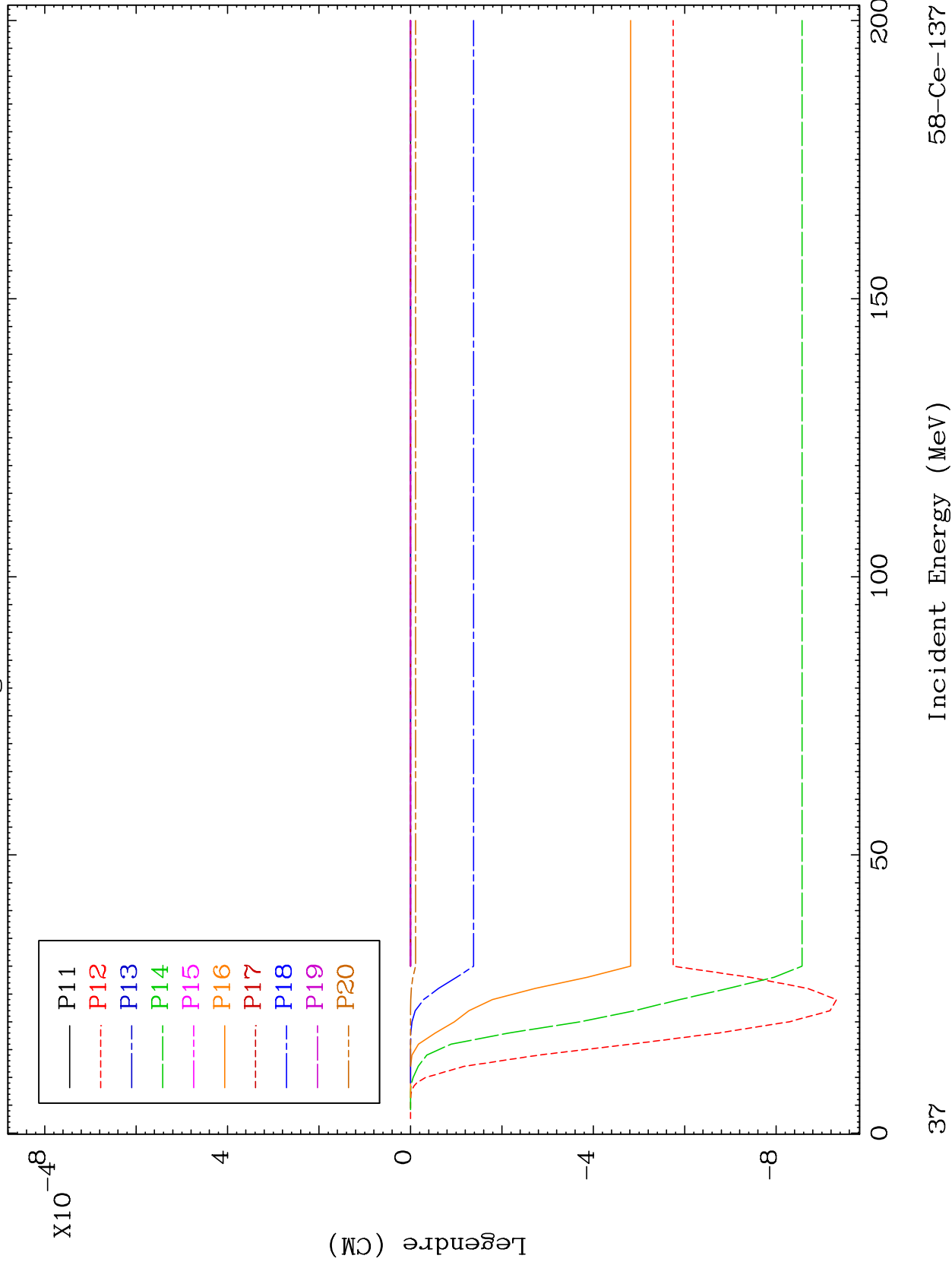




MAT 5828

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

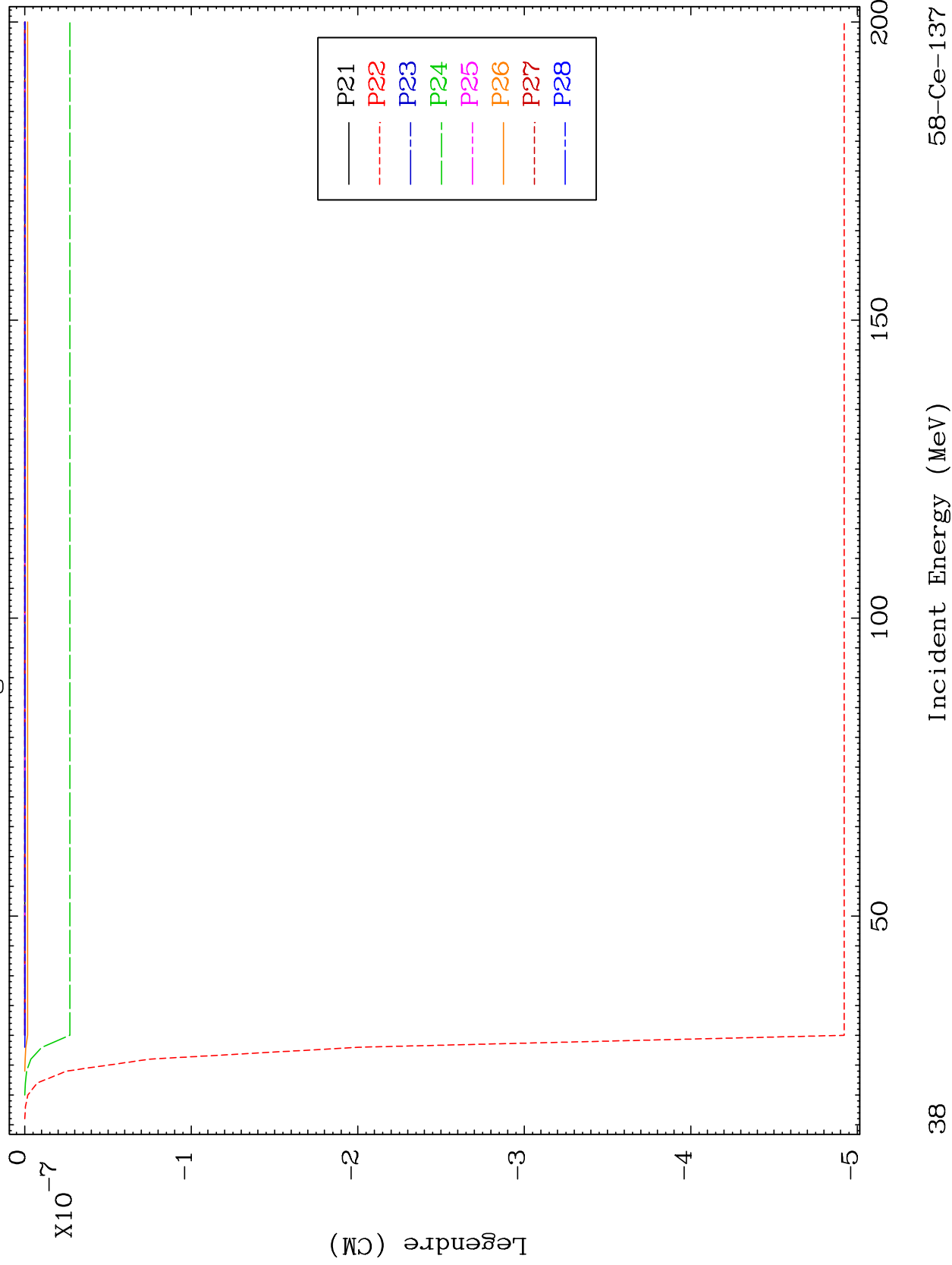
58-Ce-137



MAT 5828

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

58-Ce-137



38

Incident Energy (MeV)

58-Ce-137

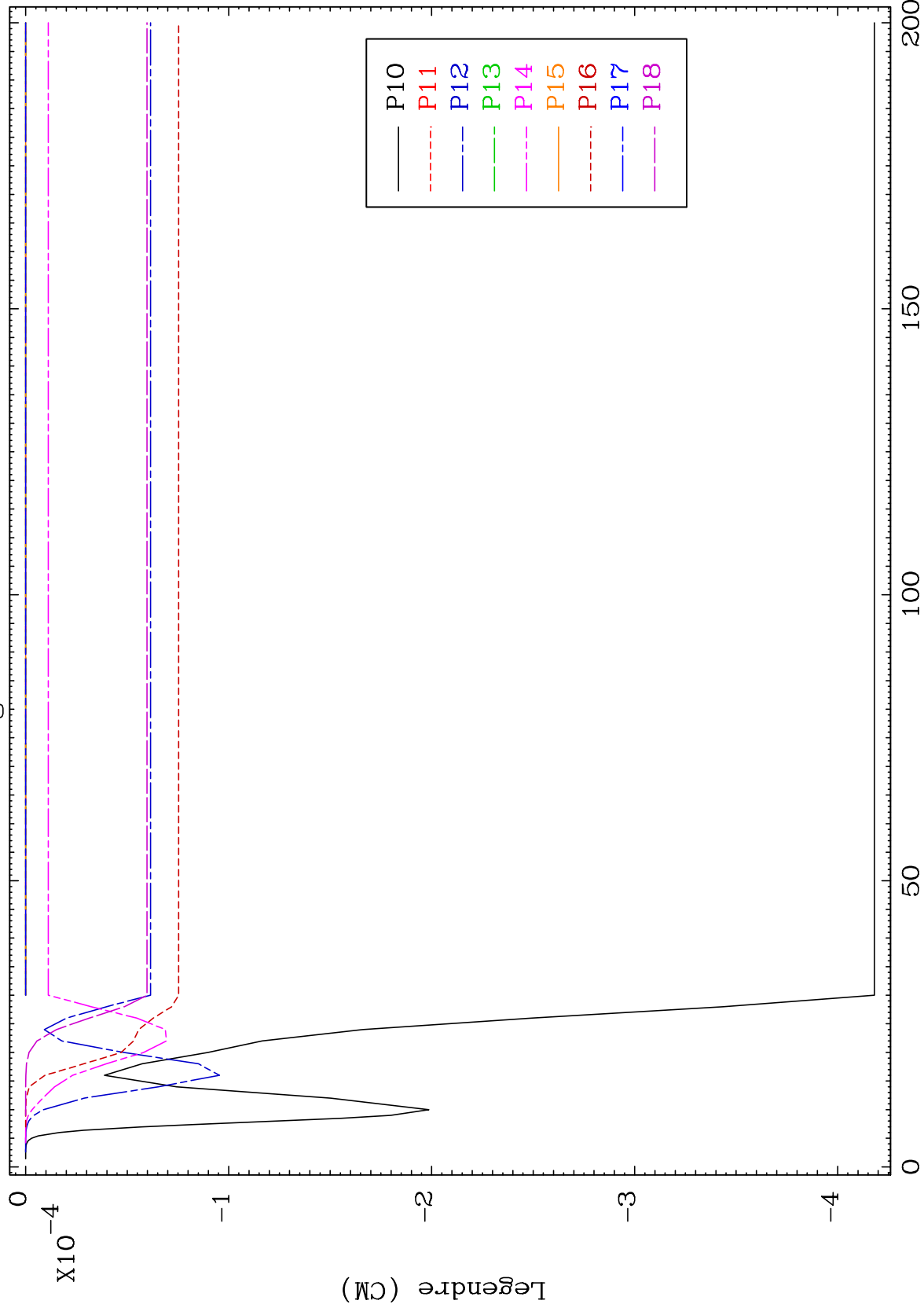




MAT 5828

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

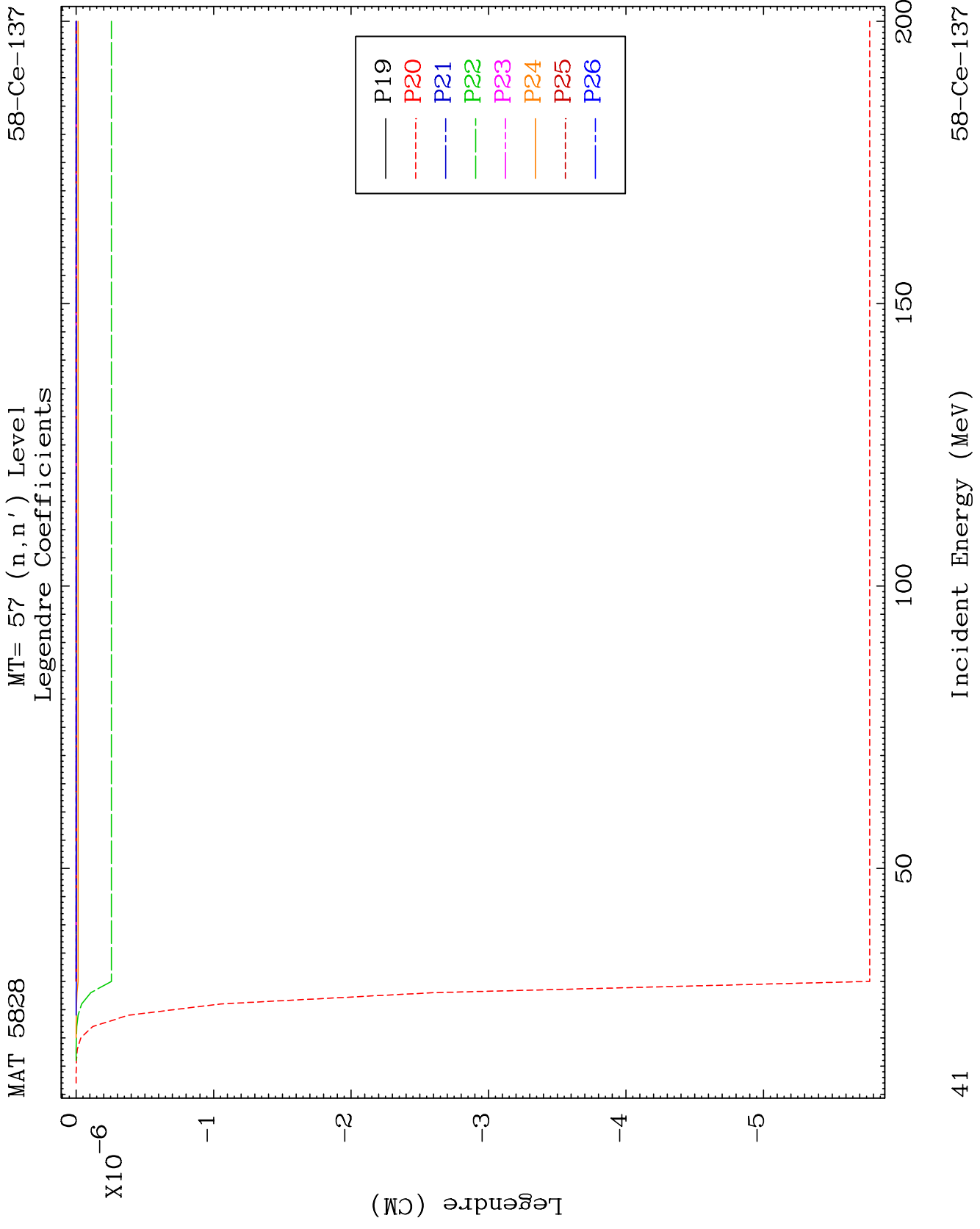
58-Ce-137

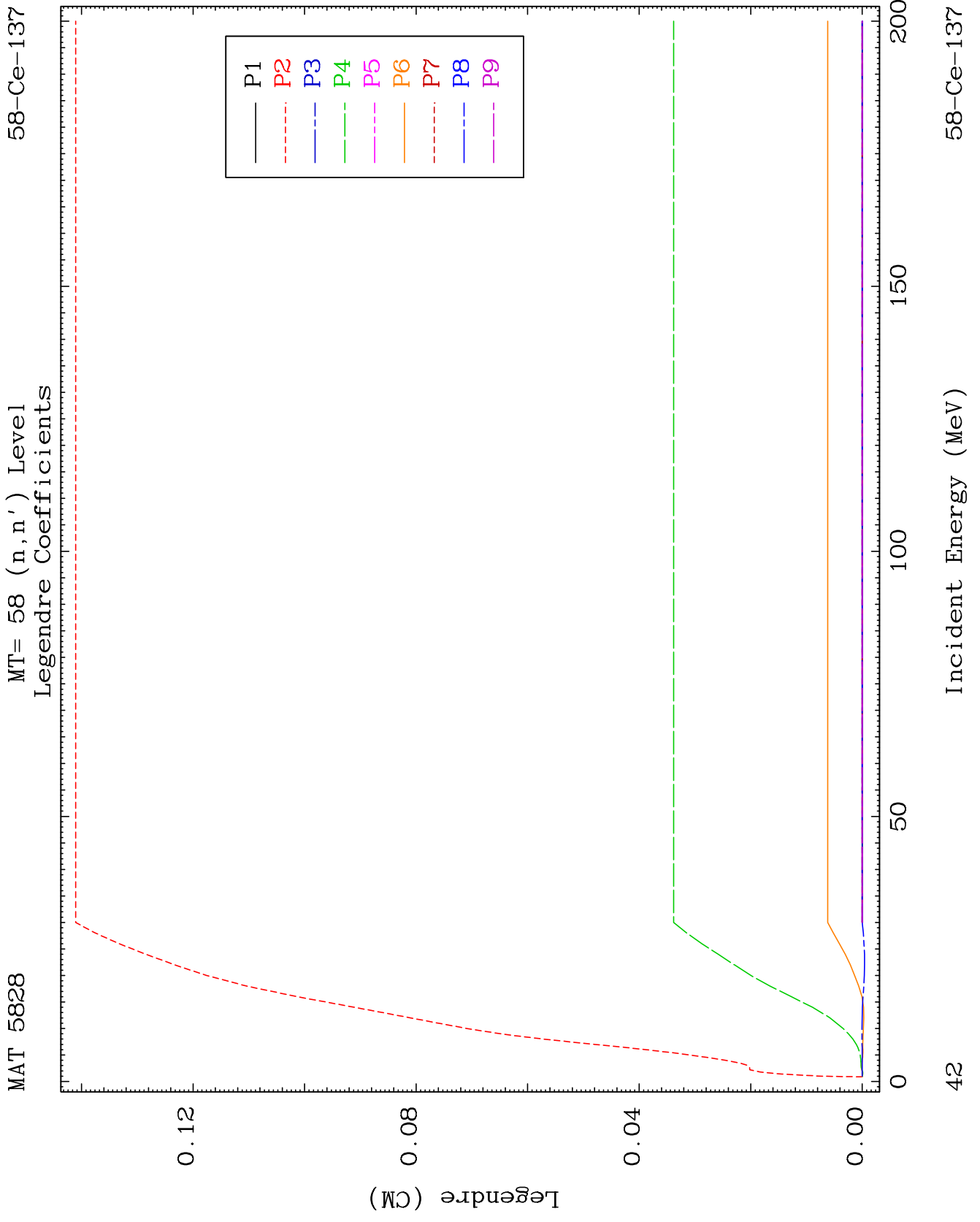


58-Ce-137

Incident Energy (MeV)

40

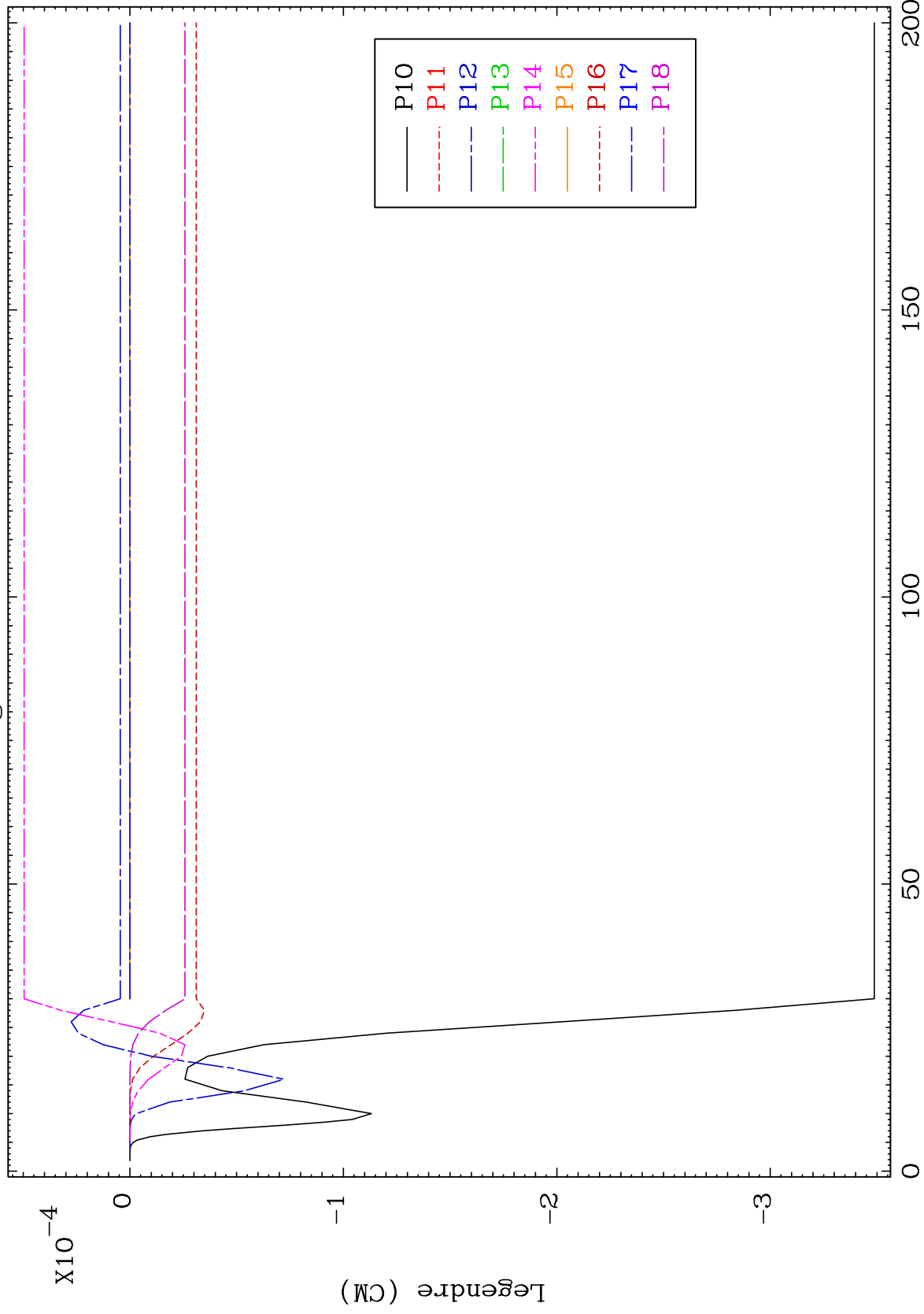




MAT 5828

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

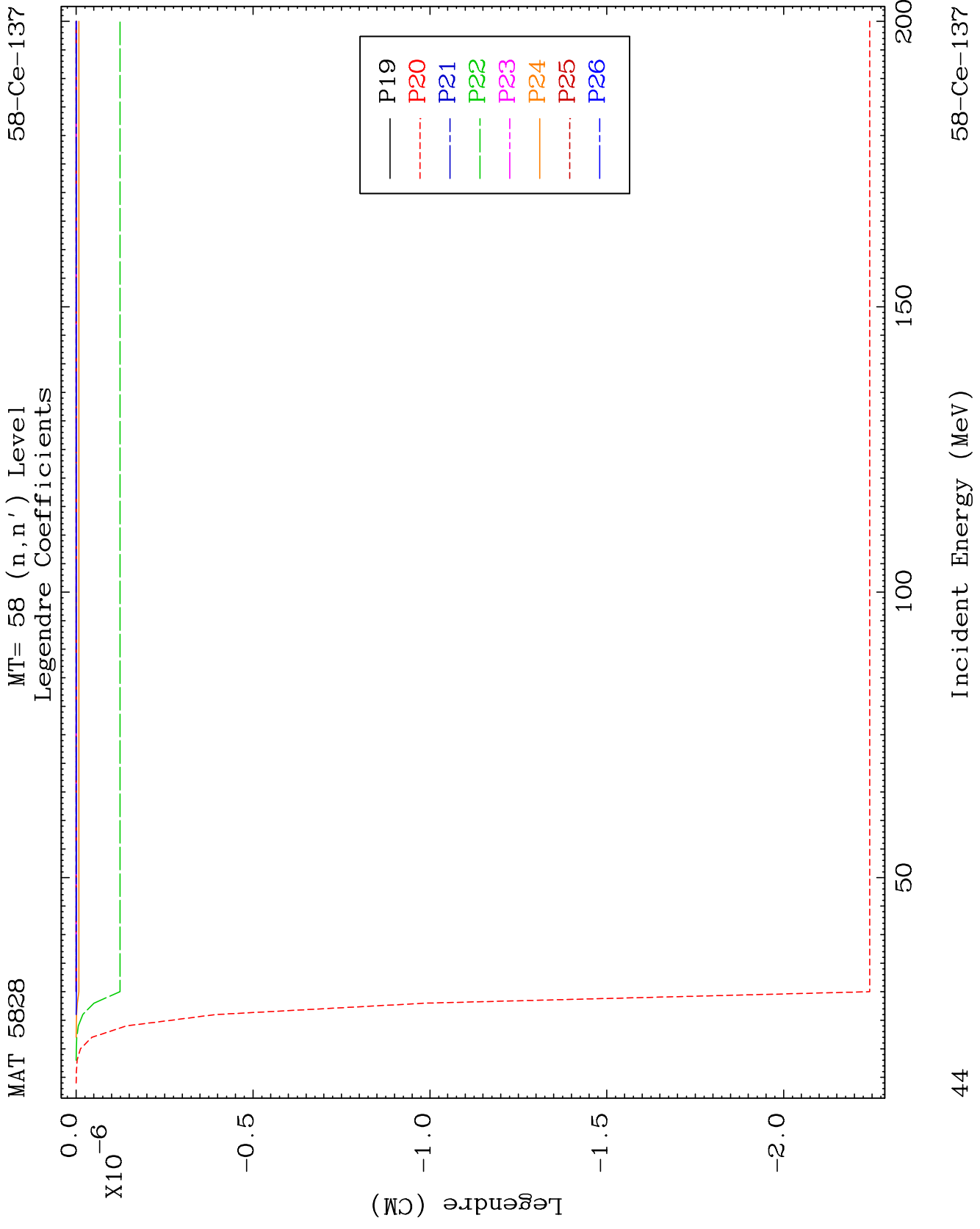
58-Ce-137



43

Incident Energy (MeV)

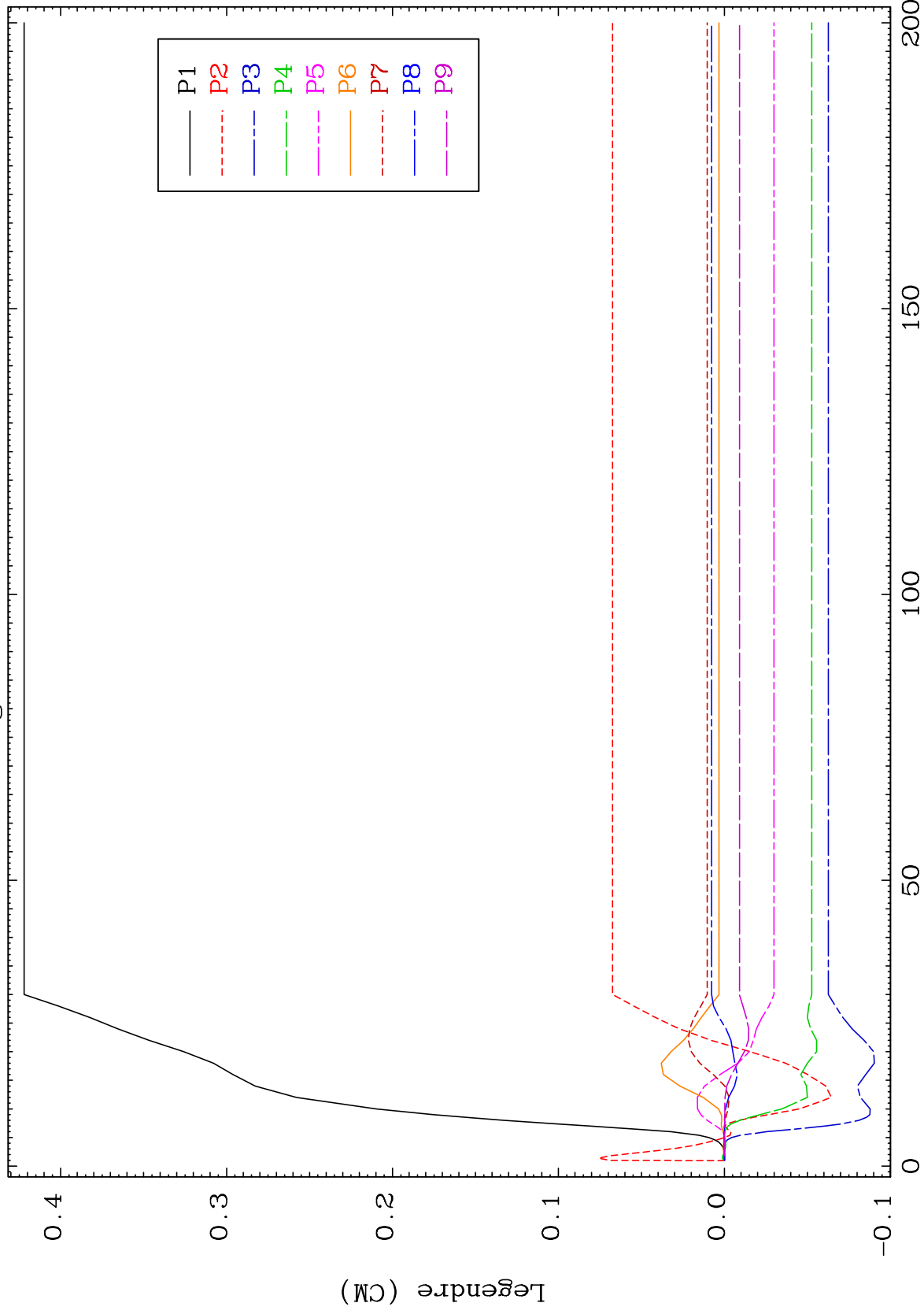
58-Ce-137



MAT 5828

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

58-Ce-137



58-Ce-137

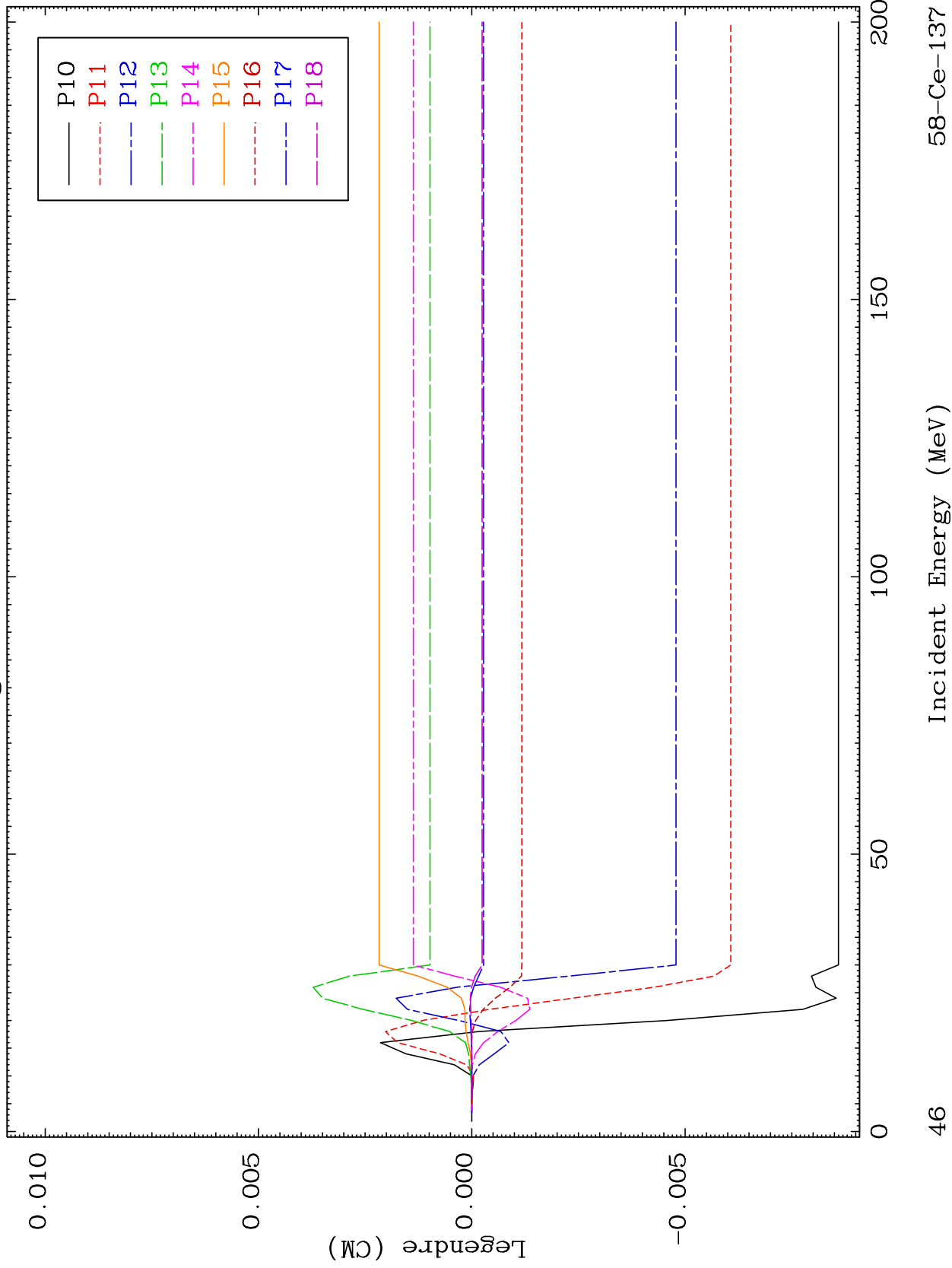
Incident Energy (MeV)

45

MAT 5828

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

58-Ce-137



46

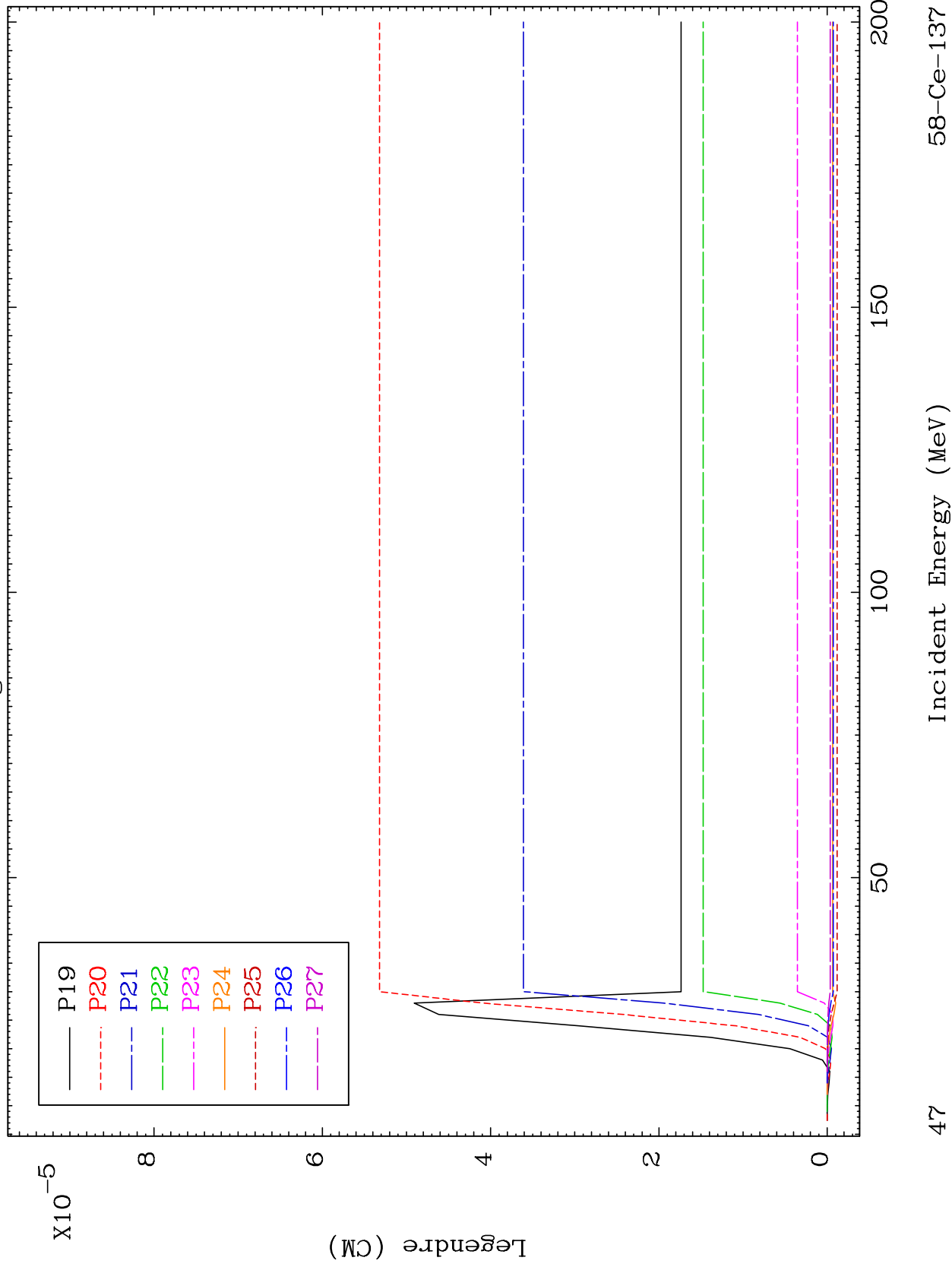
Incident Energy (MeV)

58-Ce-137

MAT 5828

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

58-Ce-137

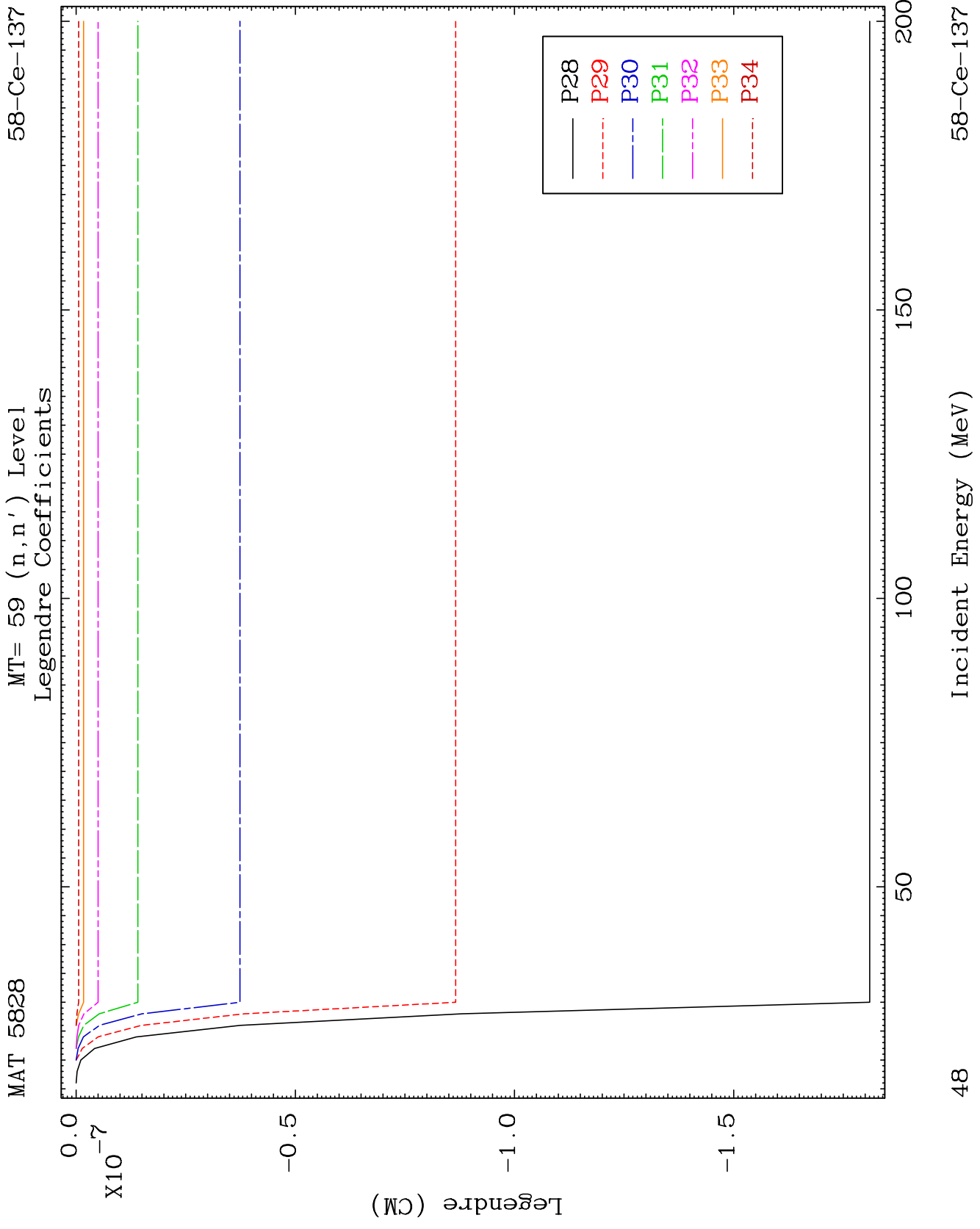


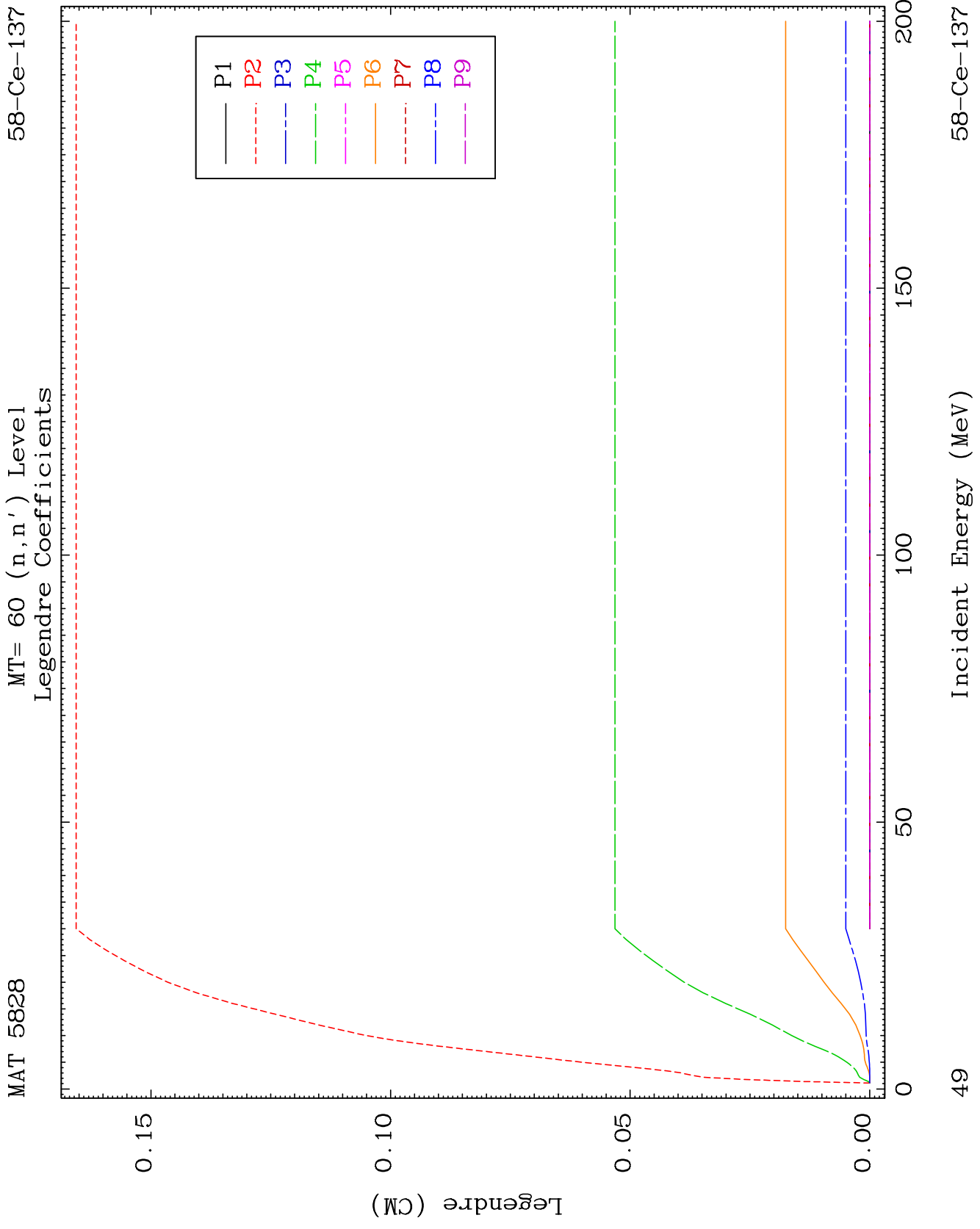
47

Incident Energy (MeV)

58-Ce-137



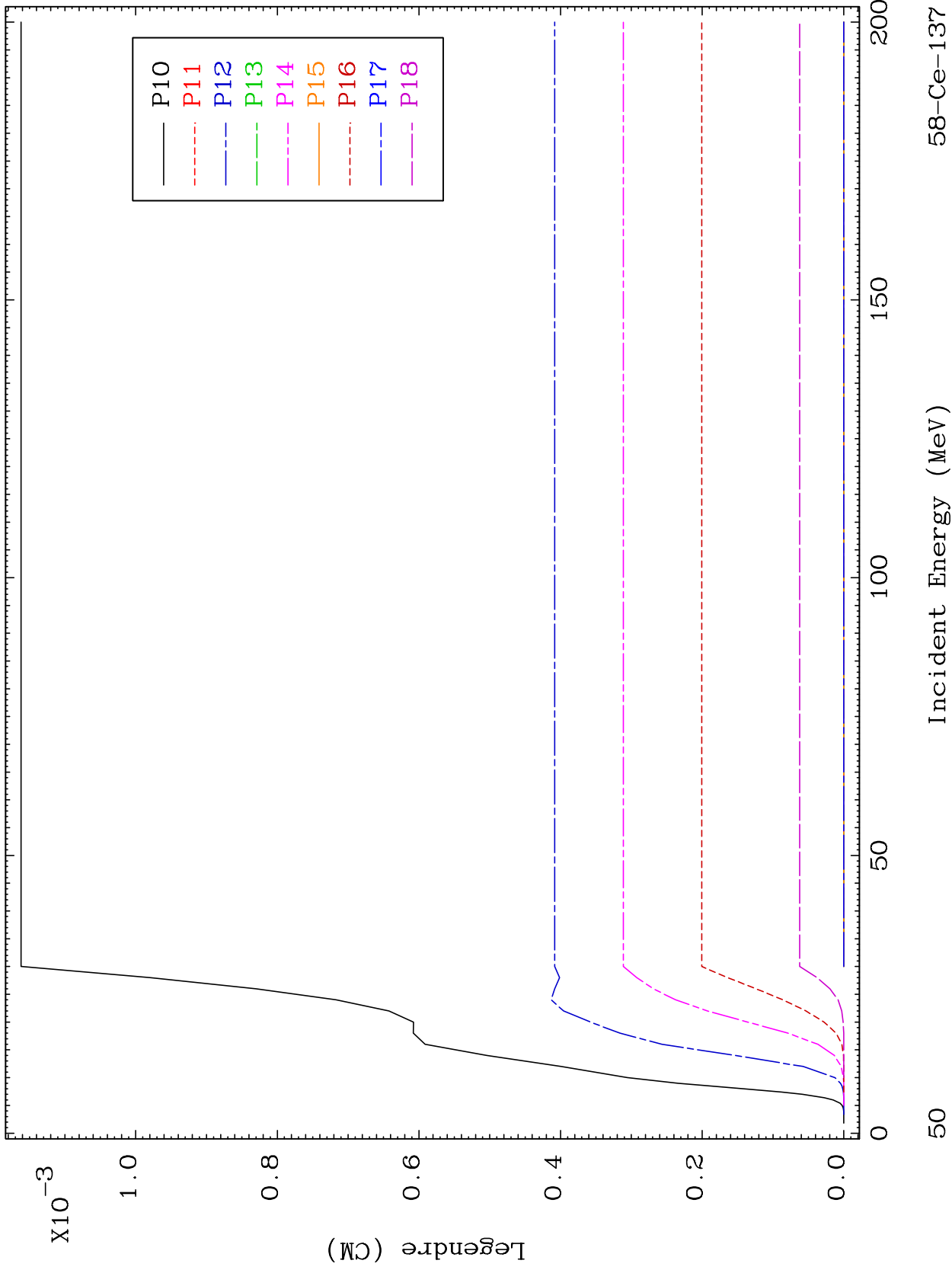


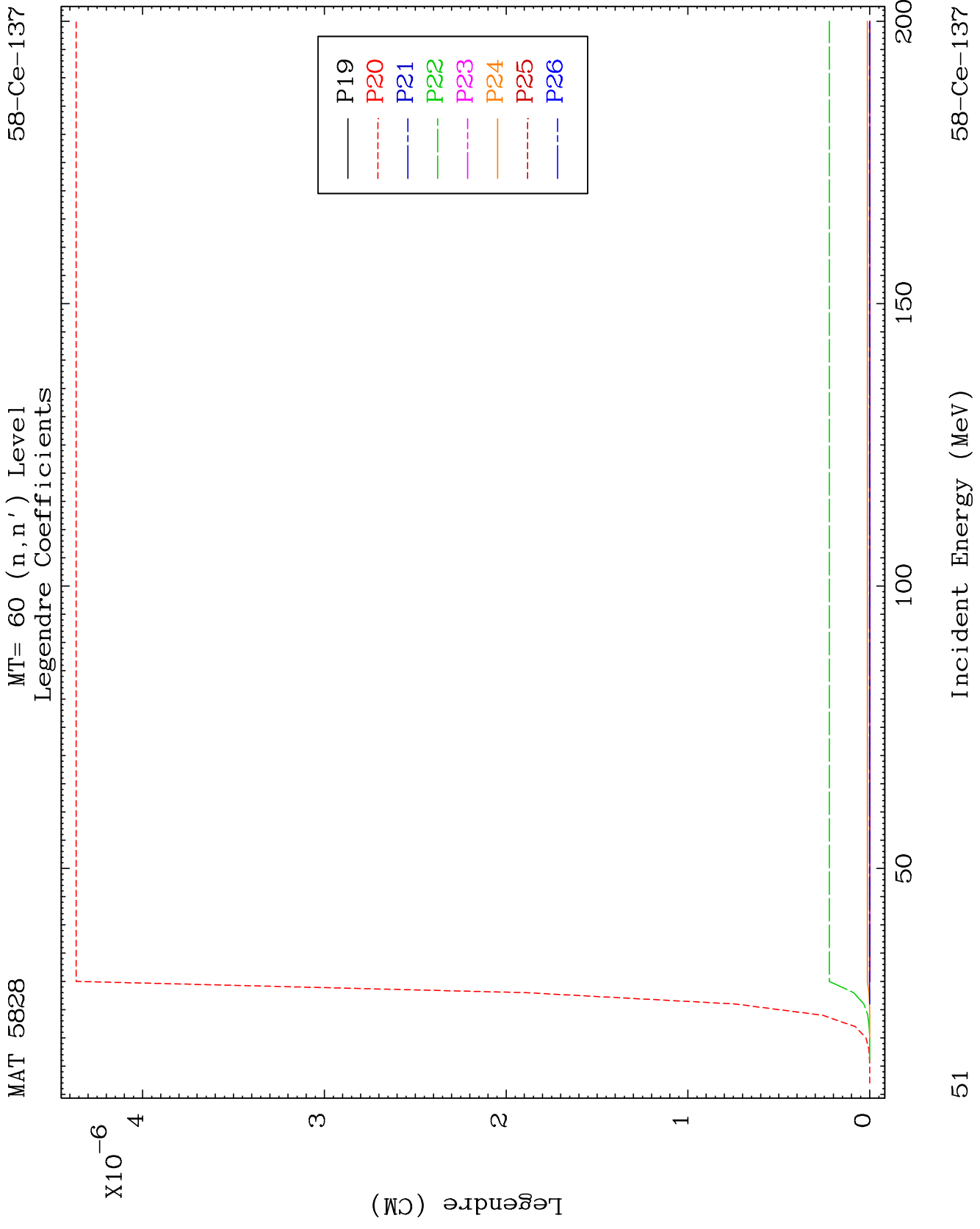


MAT 5828

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

58-Ce-137





58-Ce-137

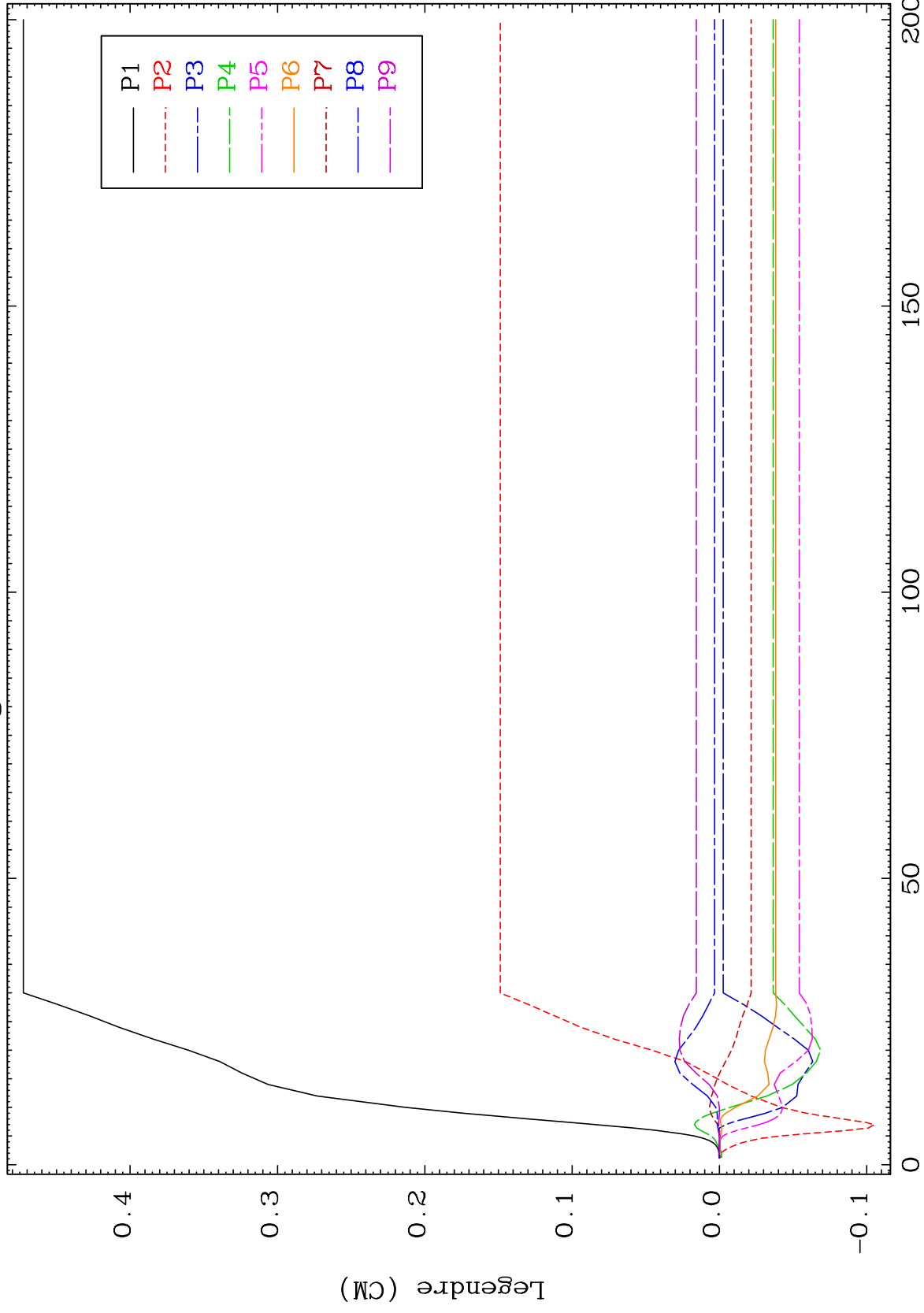
Incident Energy (MeV)

51

MAT 5828

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

58-Ce-137



58-Ce-137

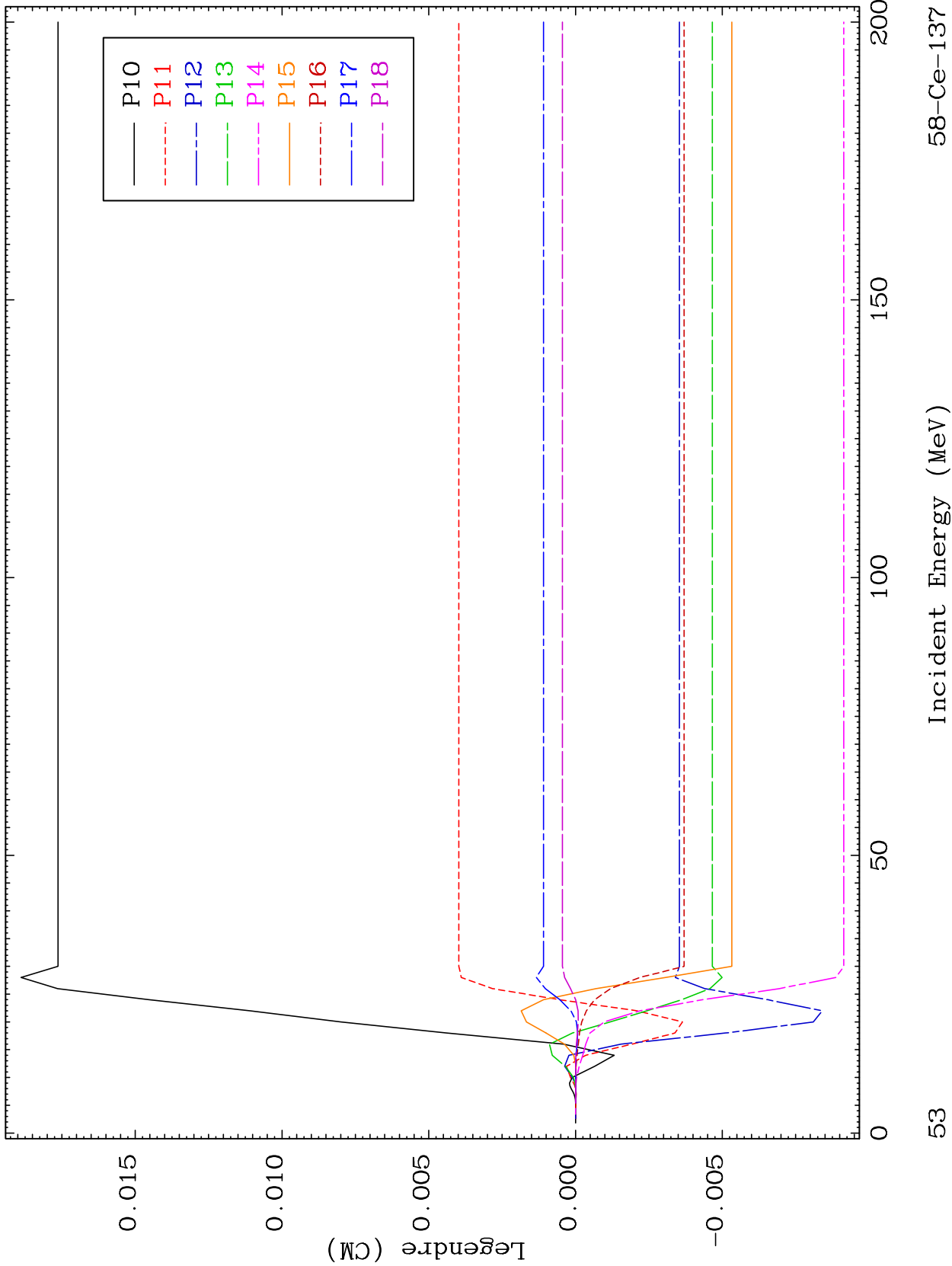
Incident Energy (MeV)

52

MAT 5828

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

58-Ce-137



53

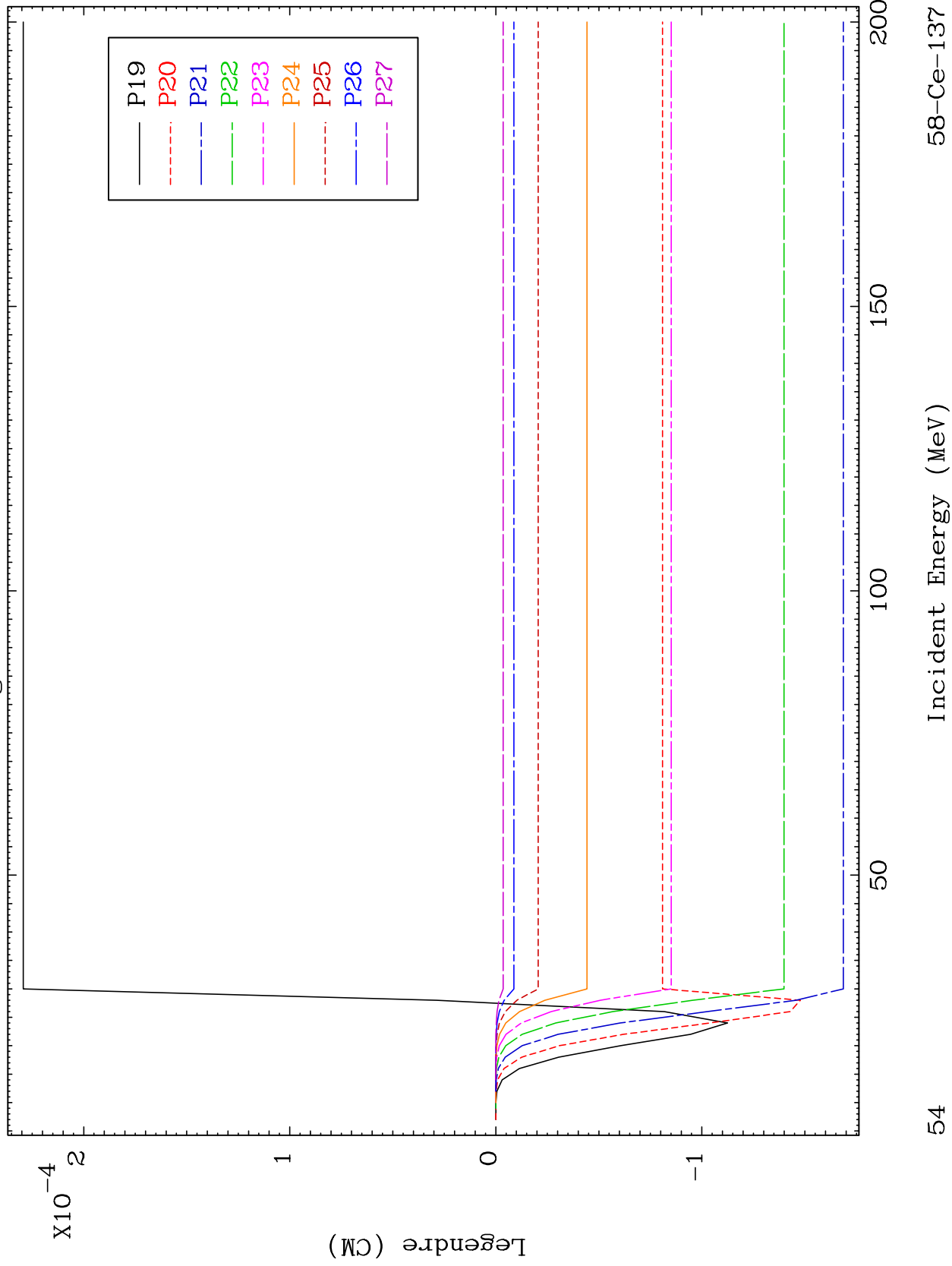
Incident Energy (MeV)

58-Ce-137

MAT 5828

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

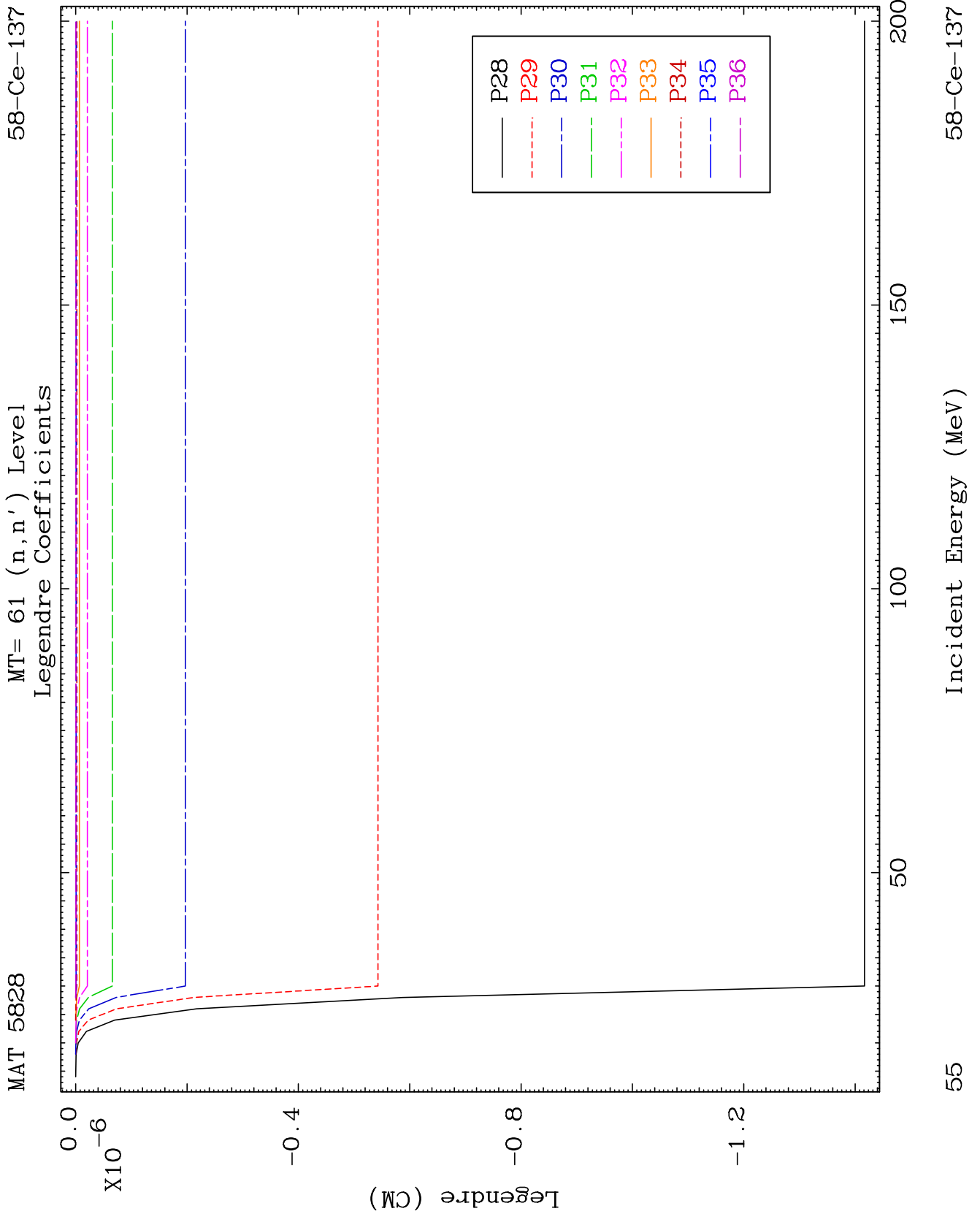
58-Ce-137



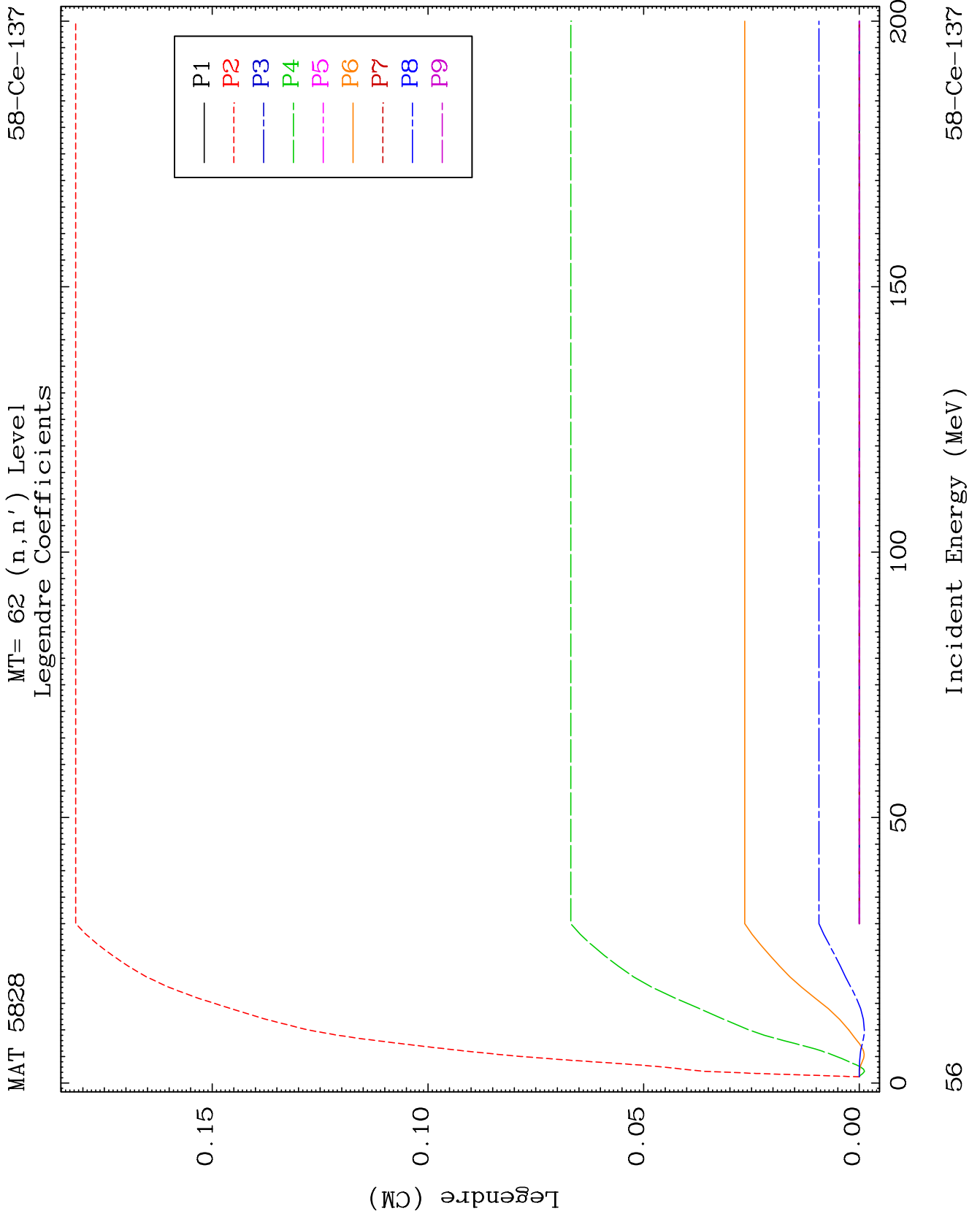
54

Incident Energy (MeV)

58-Ce-137



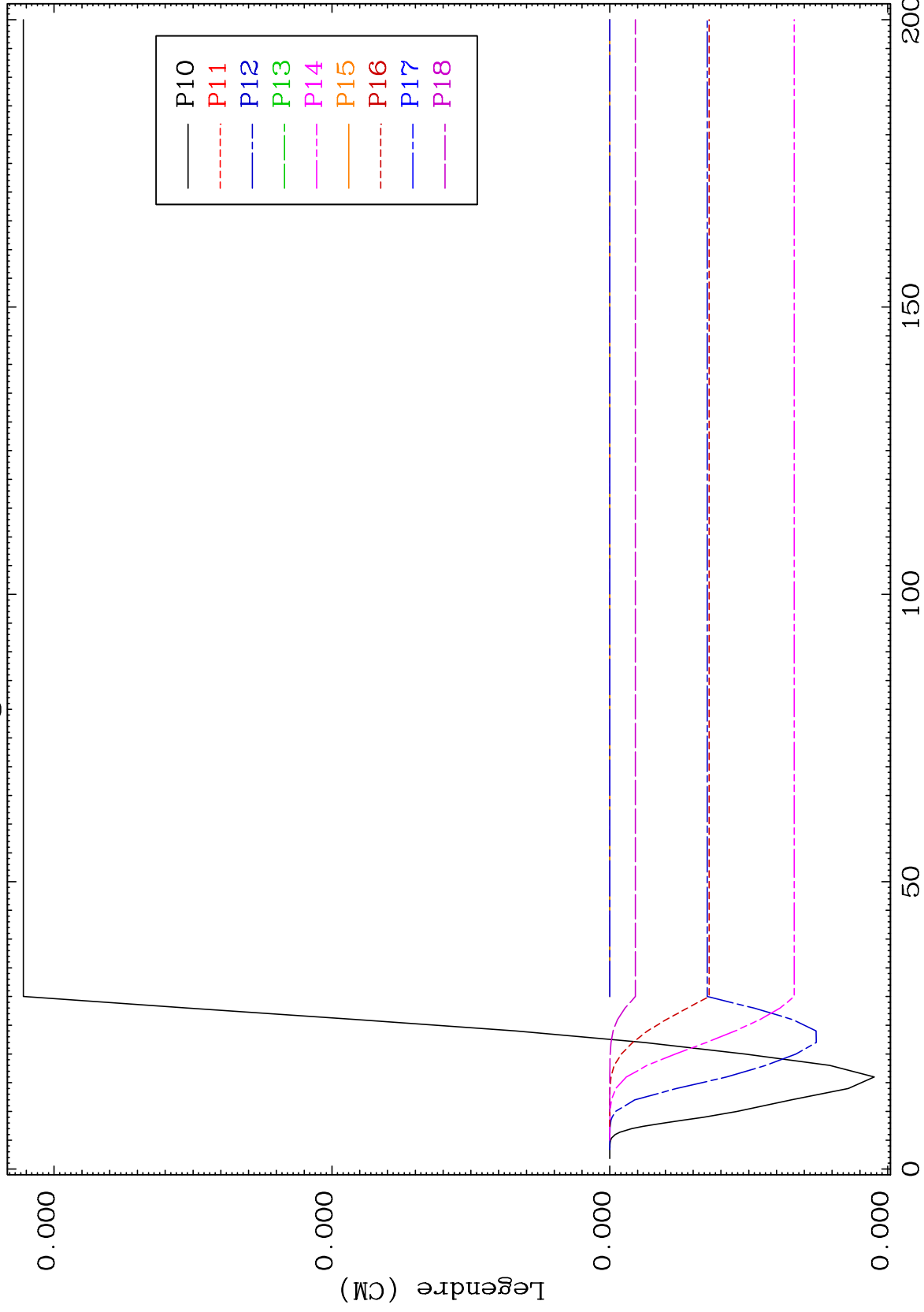




MAT 5828

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

58-Ce-137



57

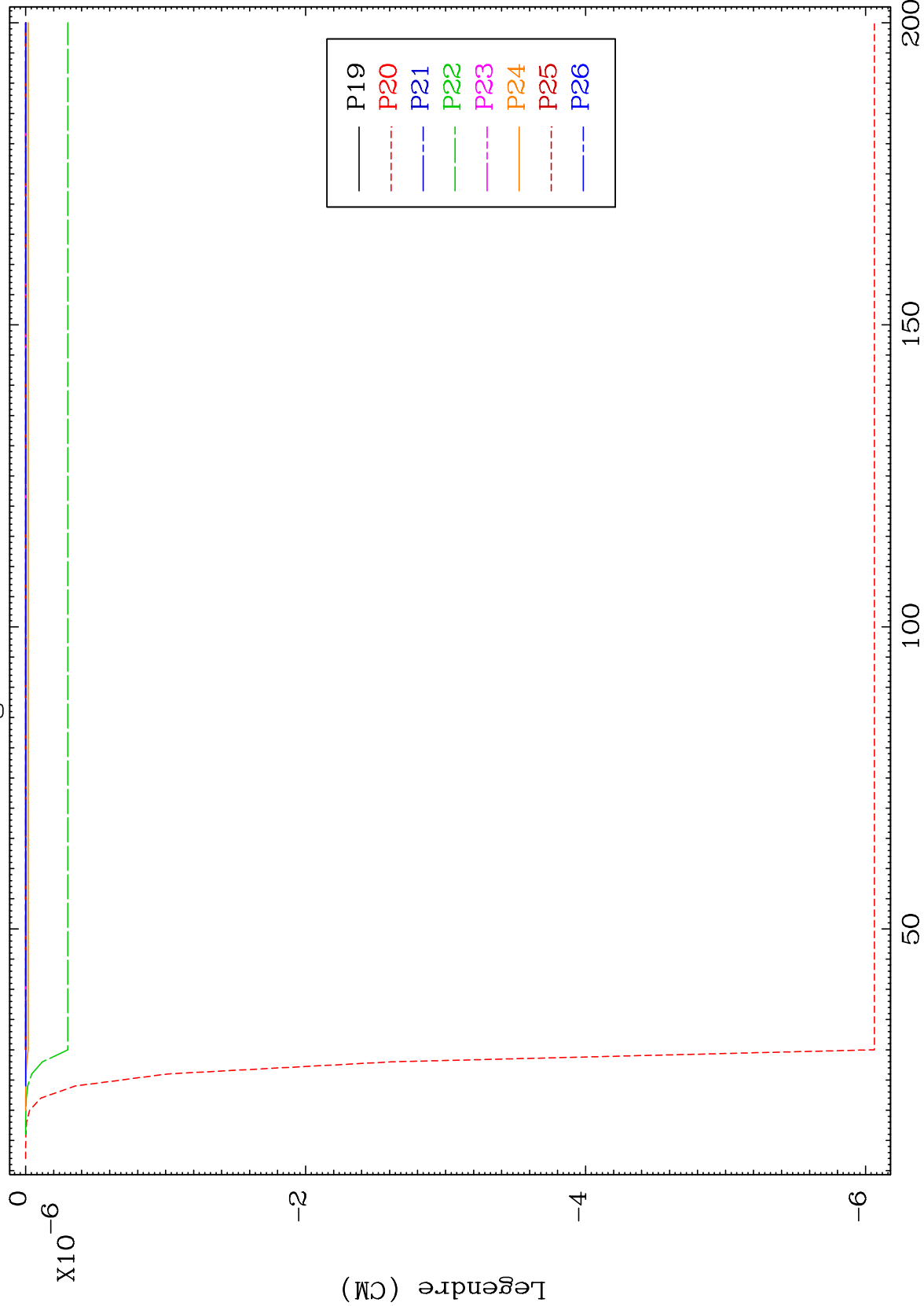
Incident Energy (MeV)

58-Ce-137

MAT 5828

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

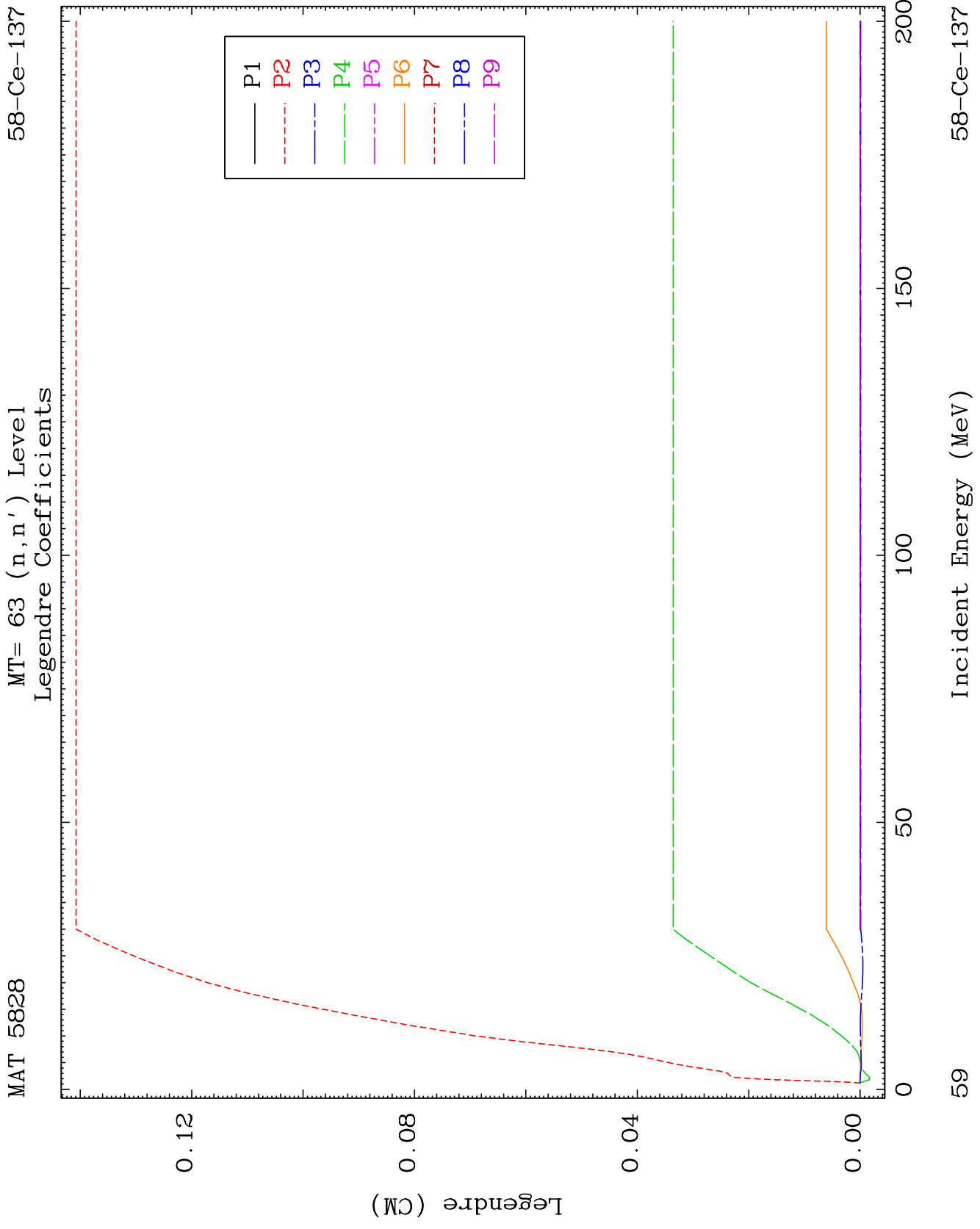
58-Ce-137

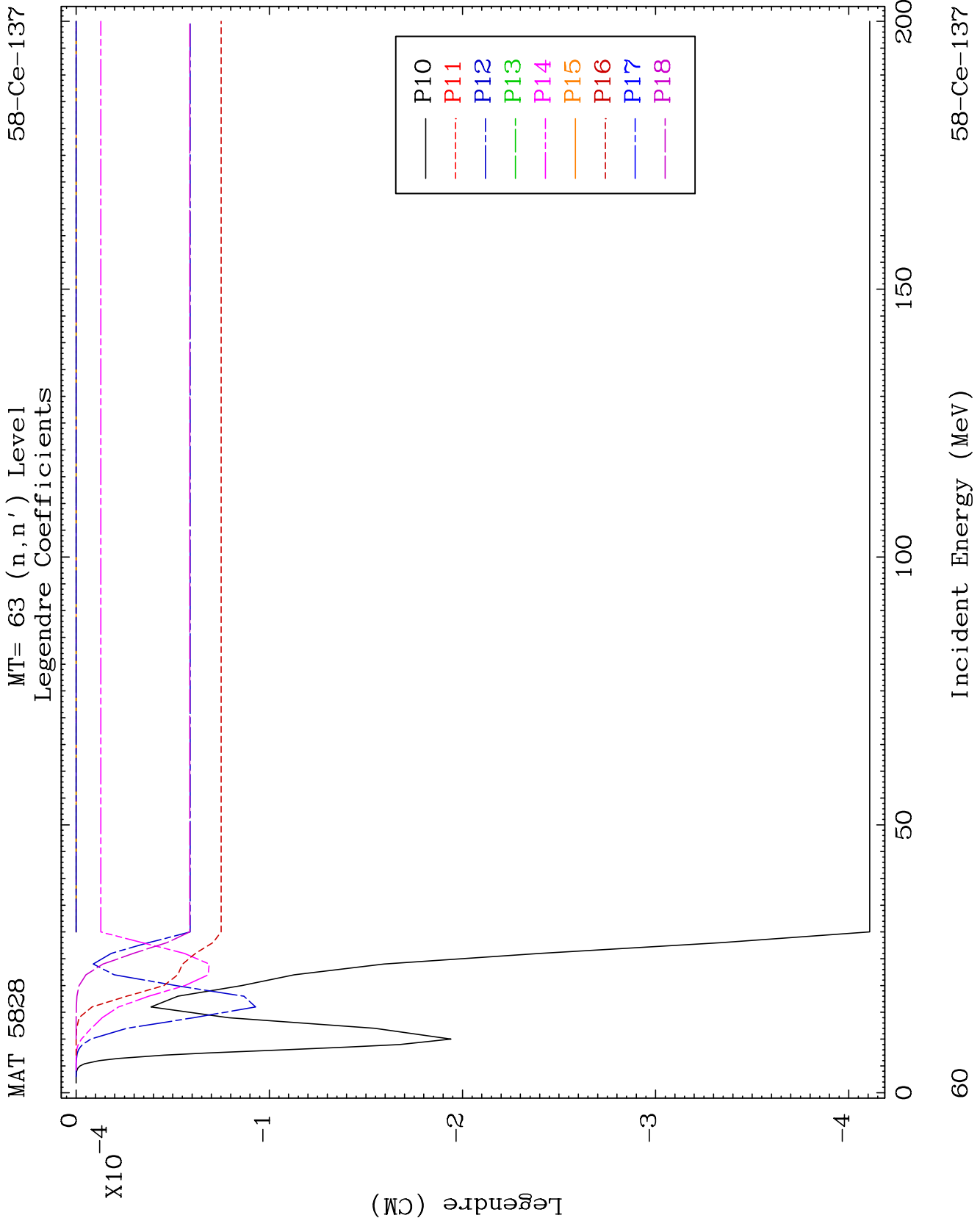


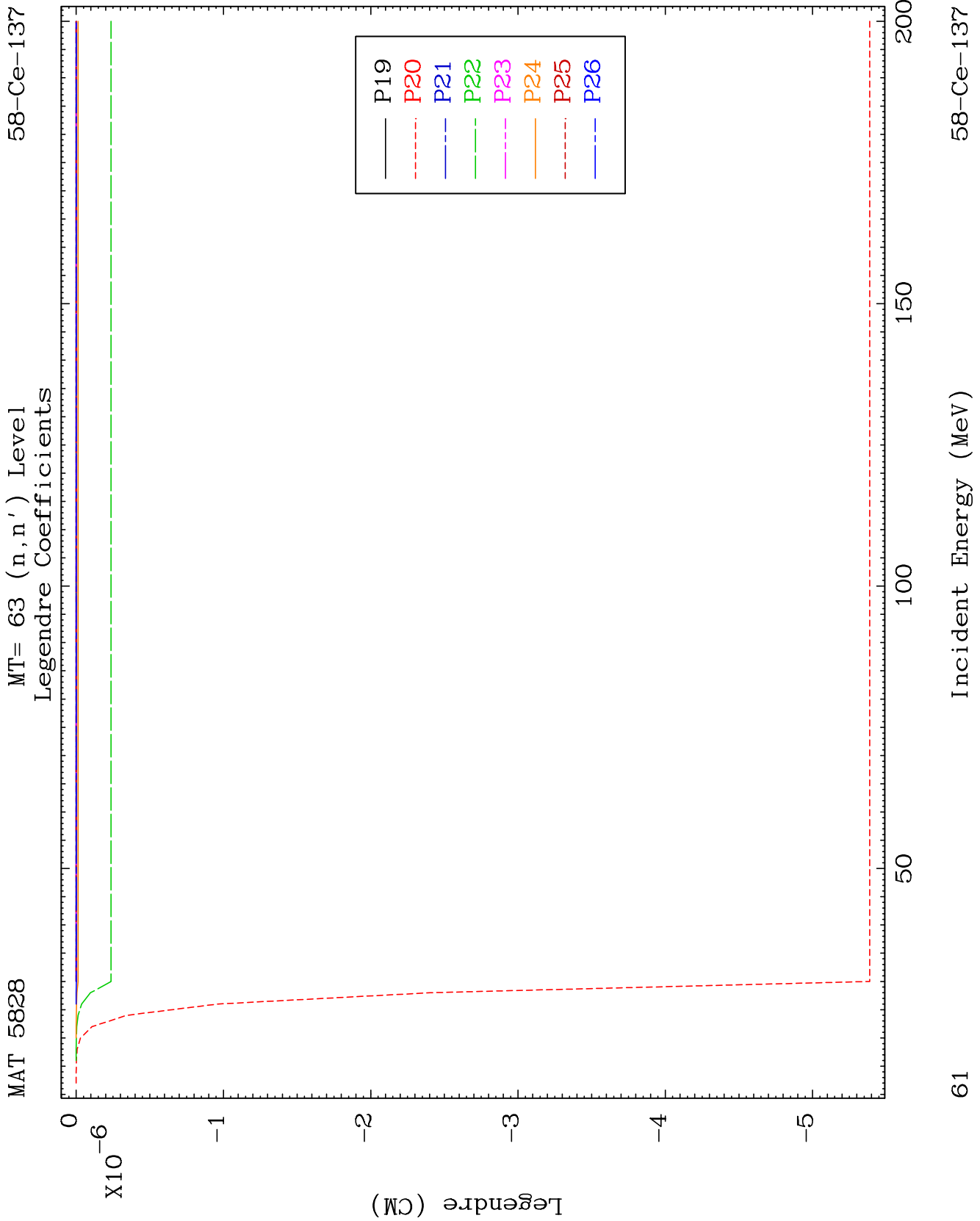
58-Ce-137

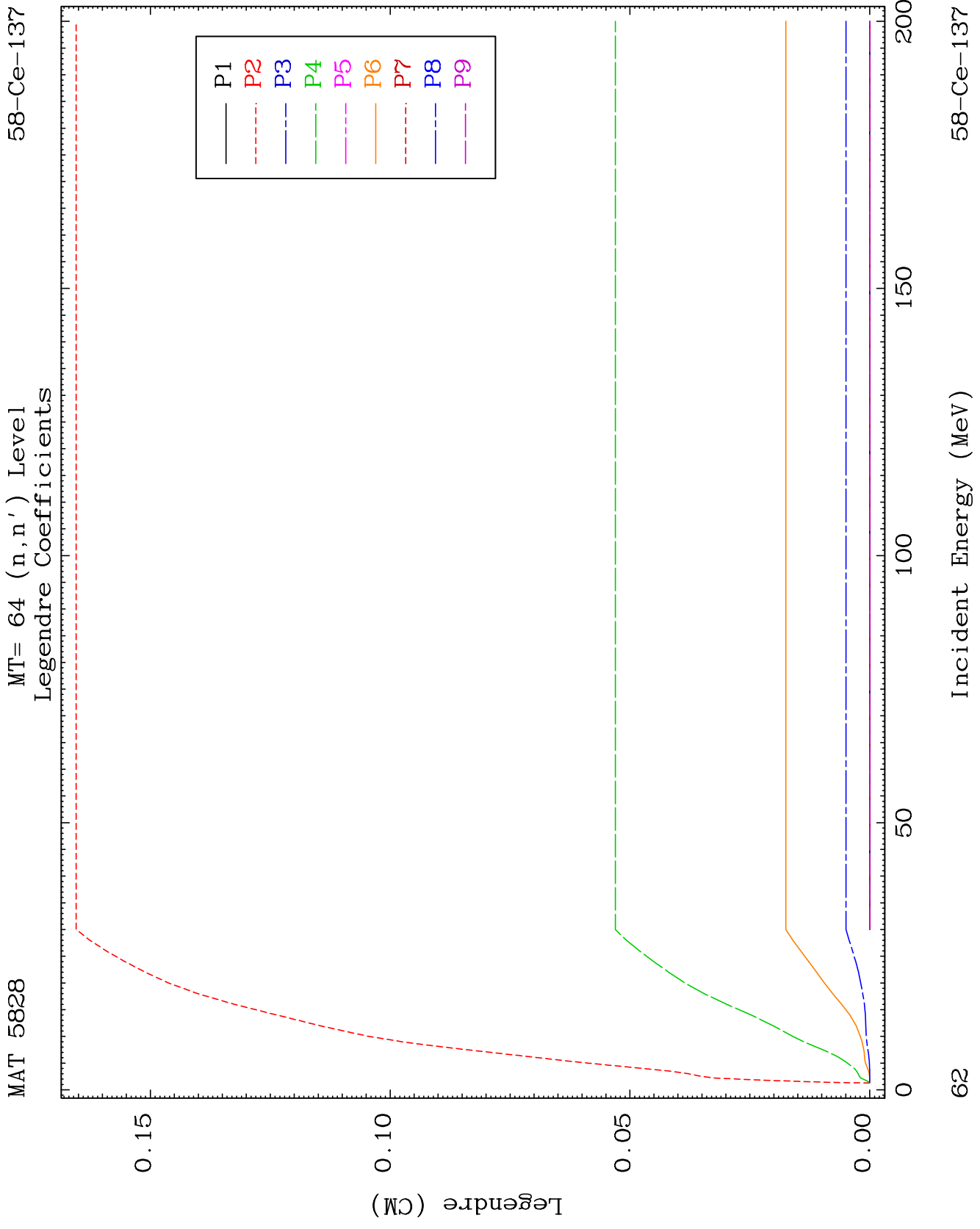
Incident Energy (MeV)

58





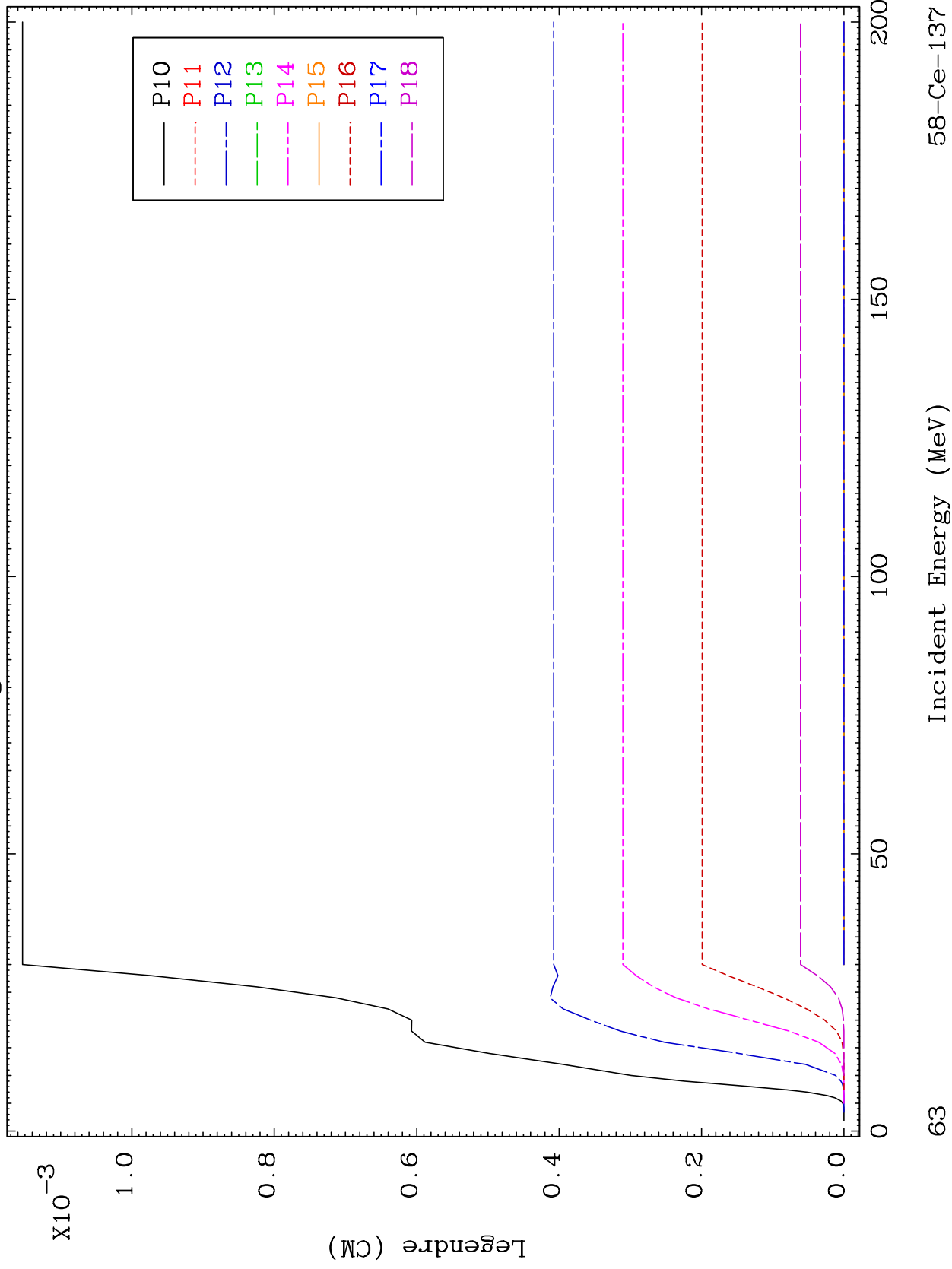




MAT 5828

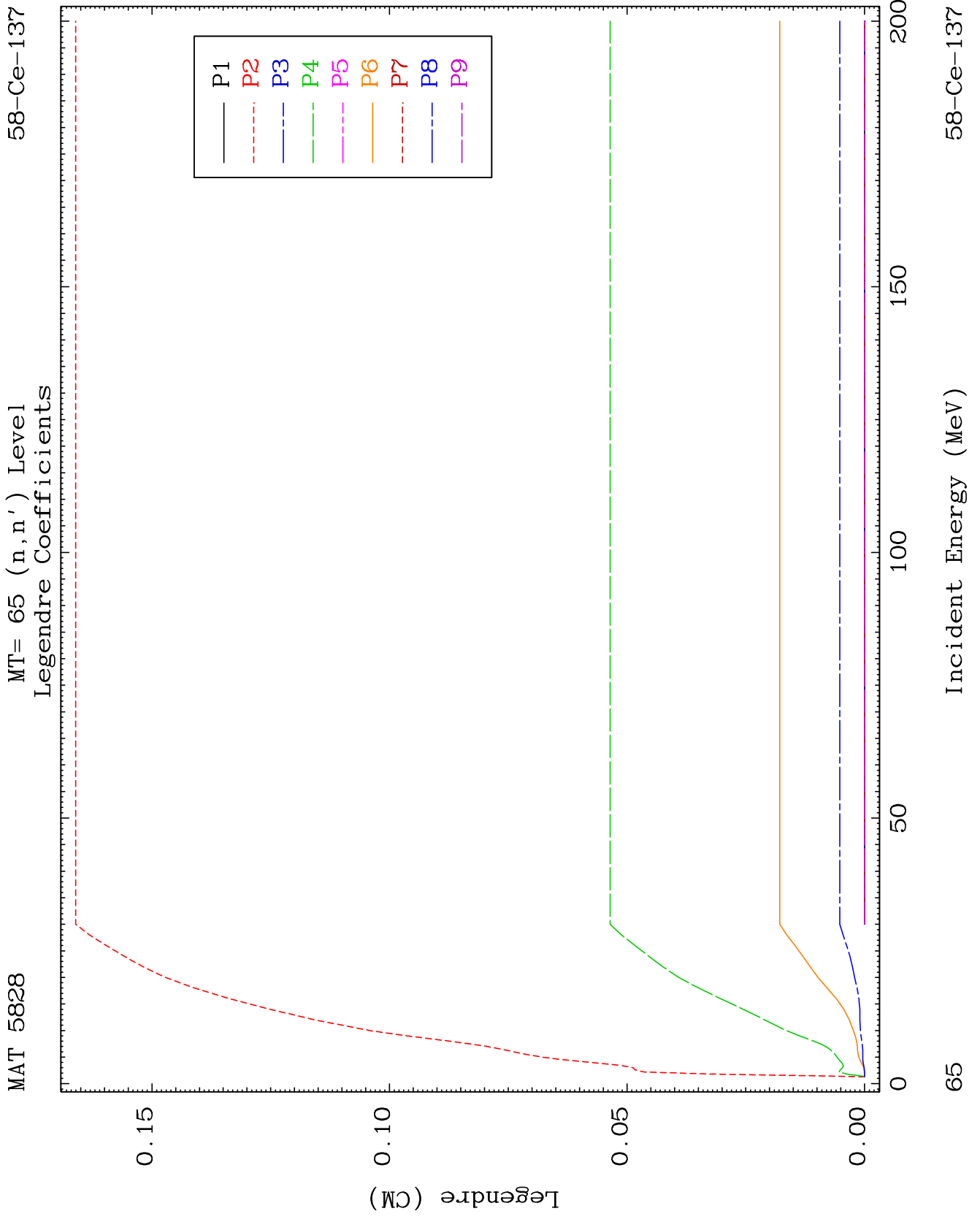
MT= 64 (n,n') Level  
Legendre Coefficients

58-Ce-137





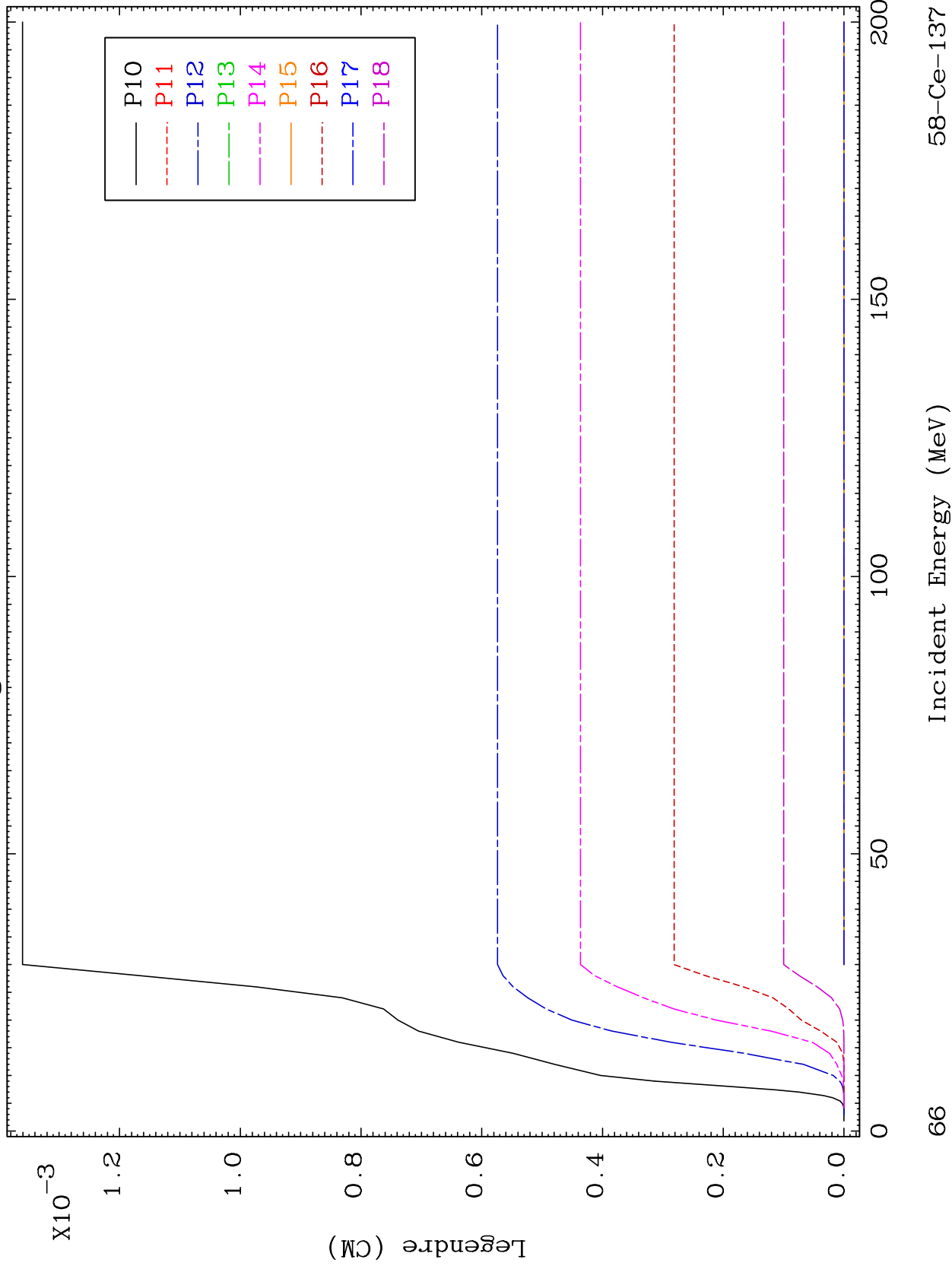




MAT 5828

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

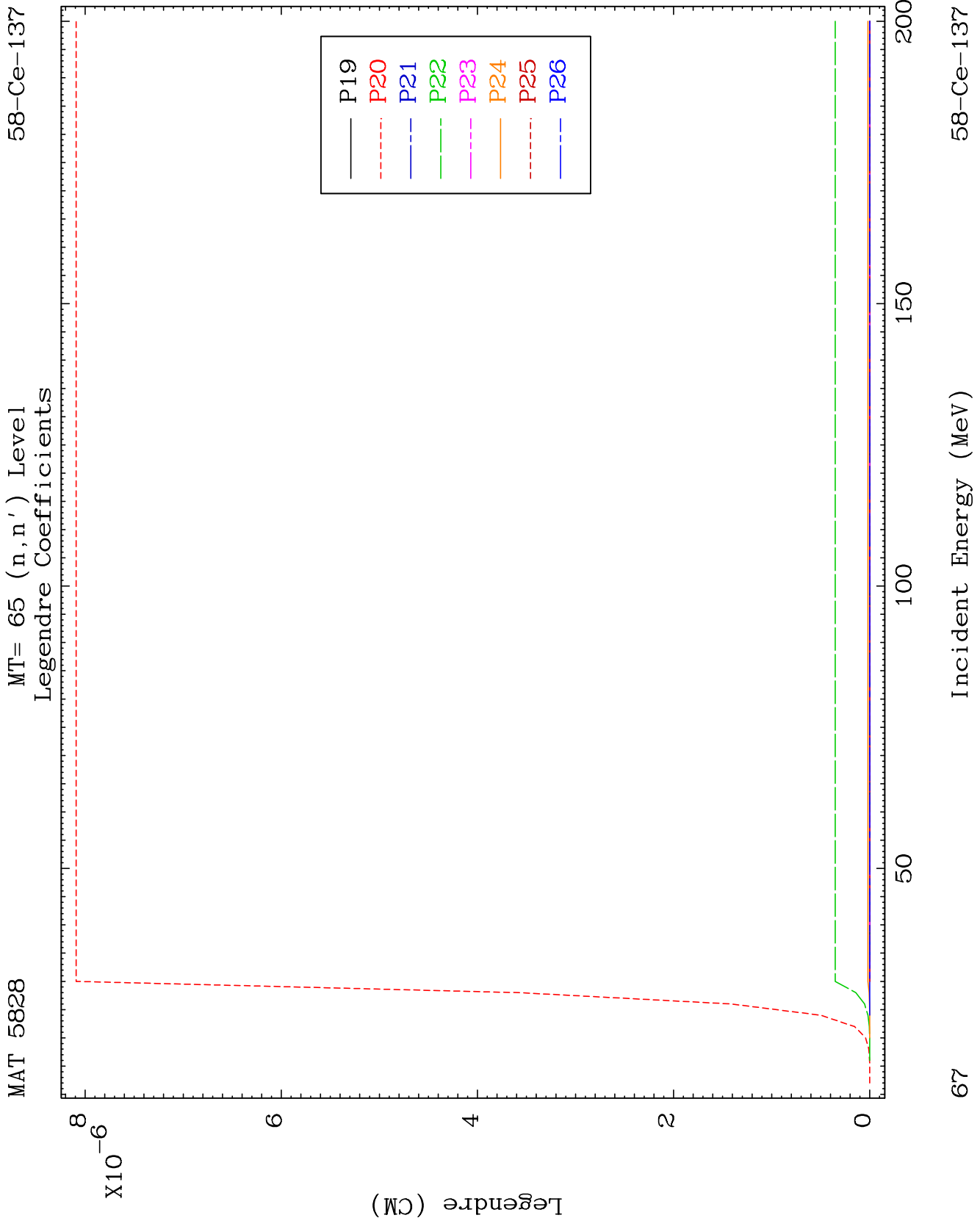
58-Ce-137



58-Ce-137

Incident Energy (MeV)

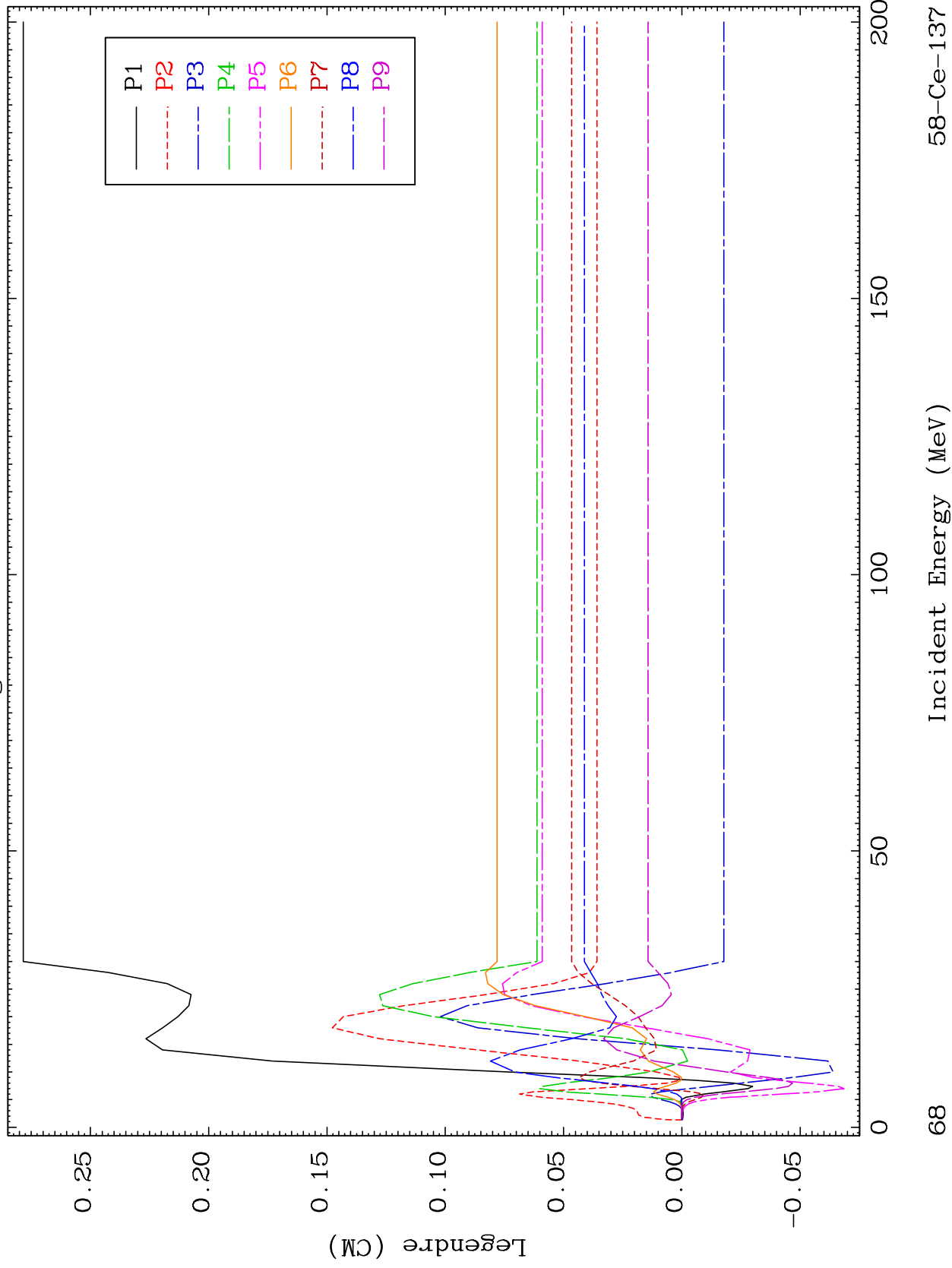
66



MAT 5828

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

58-Ce-137



58-Ce-137

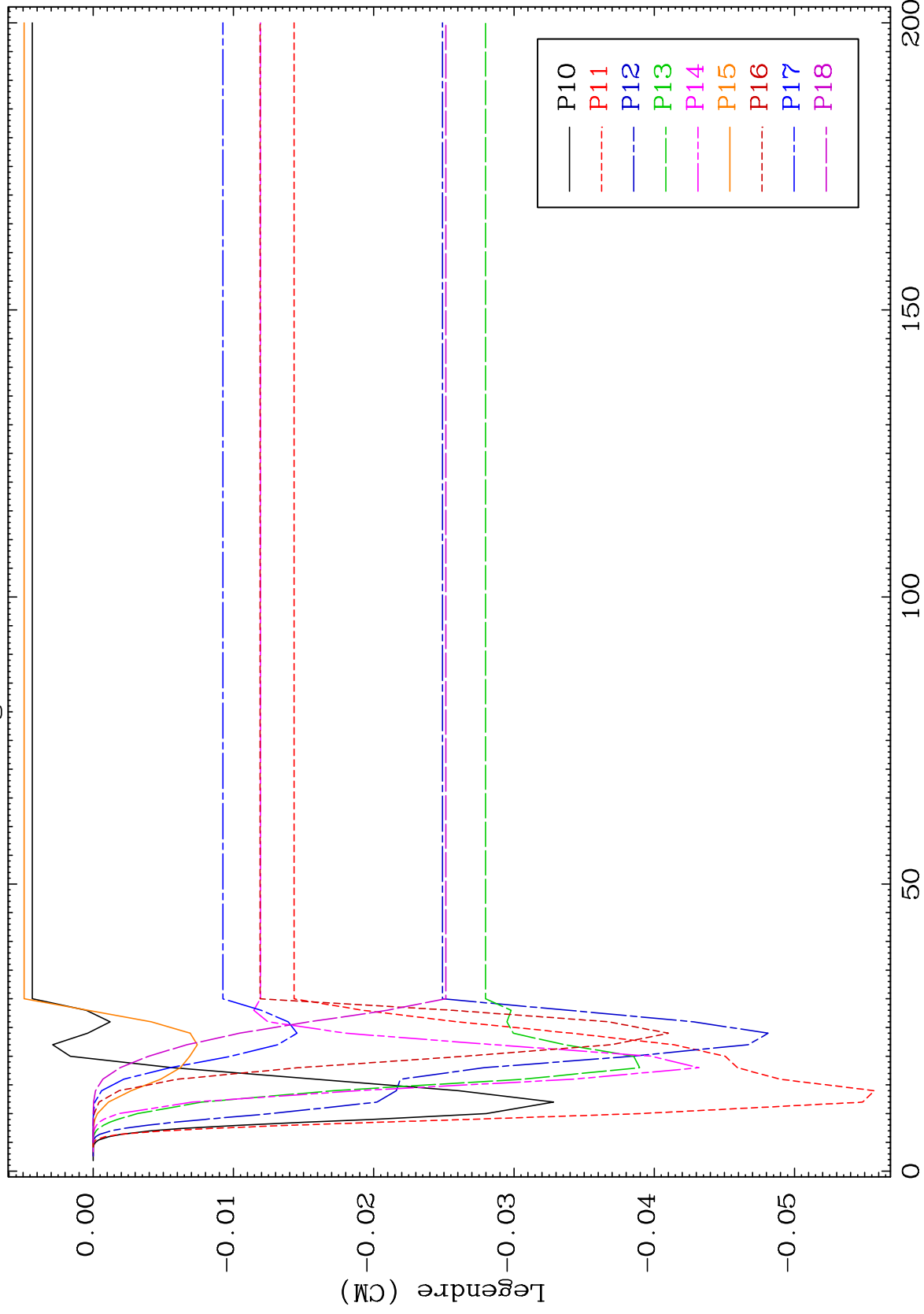
Incident Energy (MeV)

68

MAT 5828

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

58-Ce-137



69

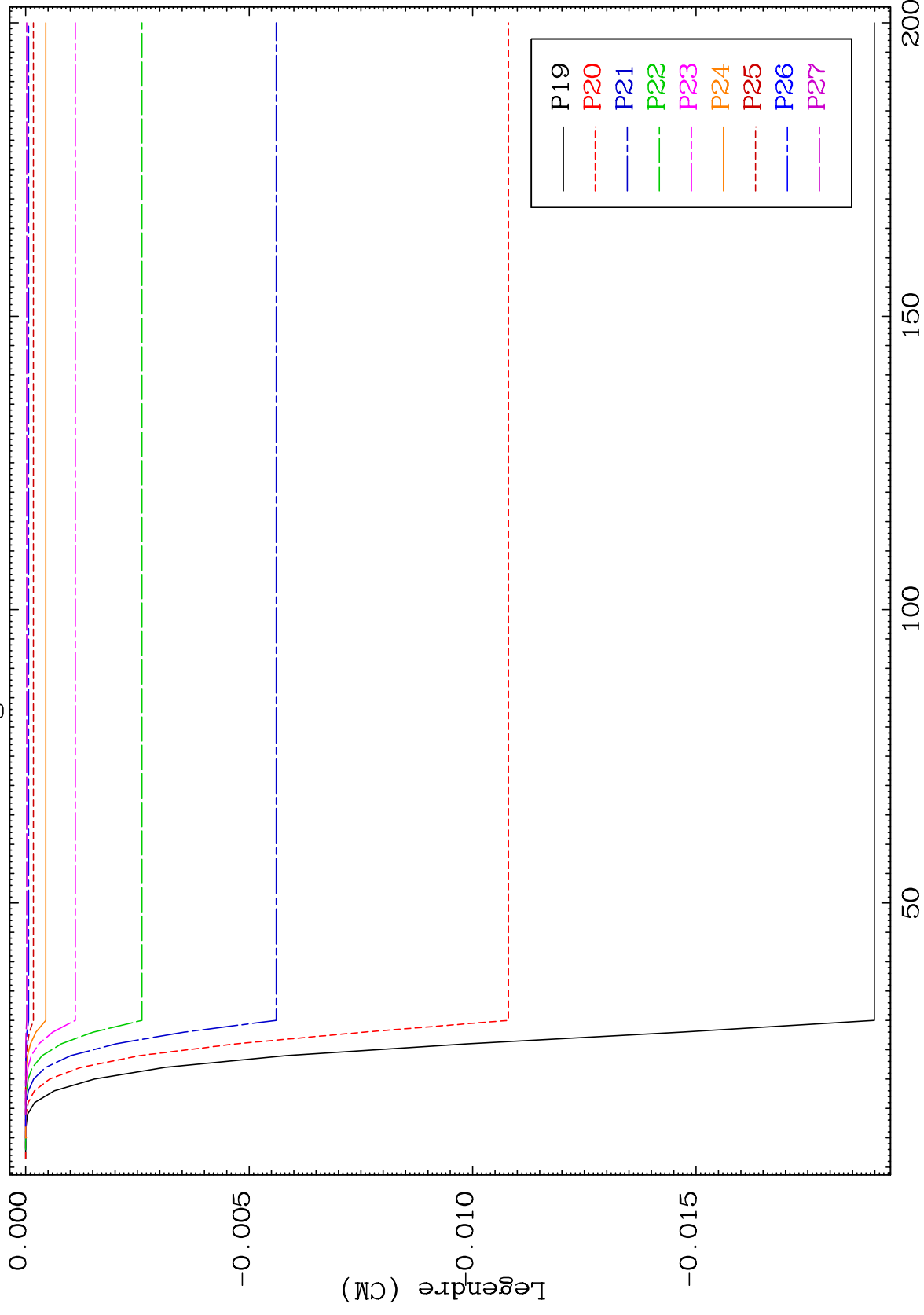
Incident Energy (MeV)

58-Ce-137

MAT 5828

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

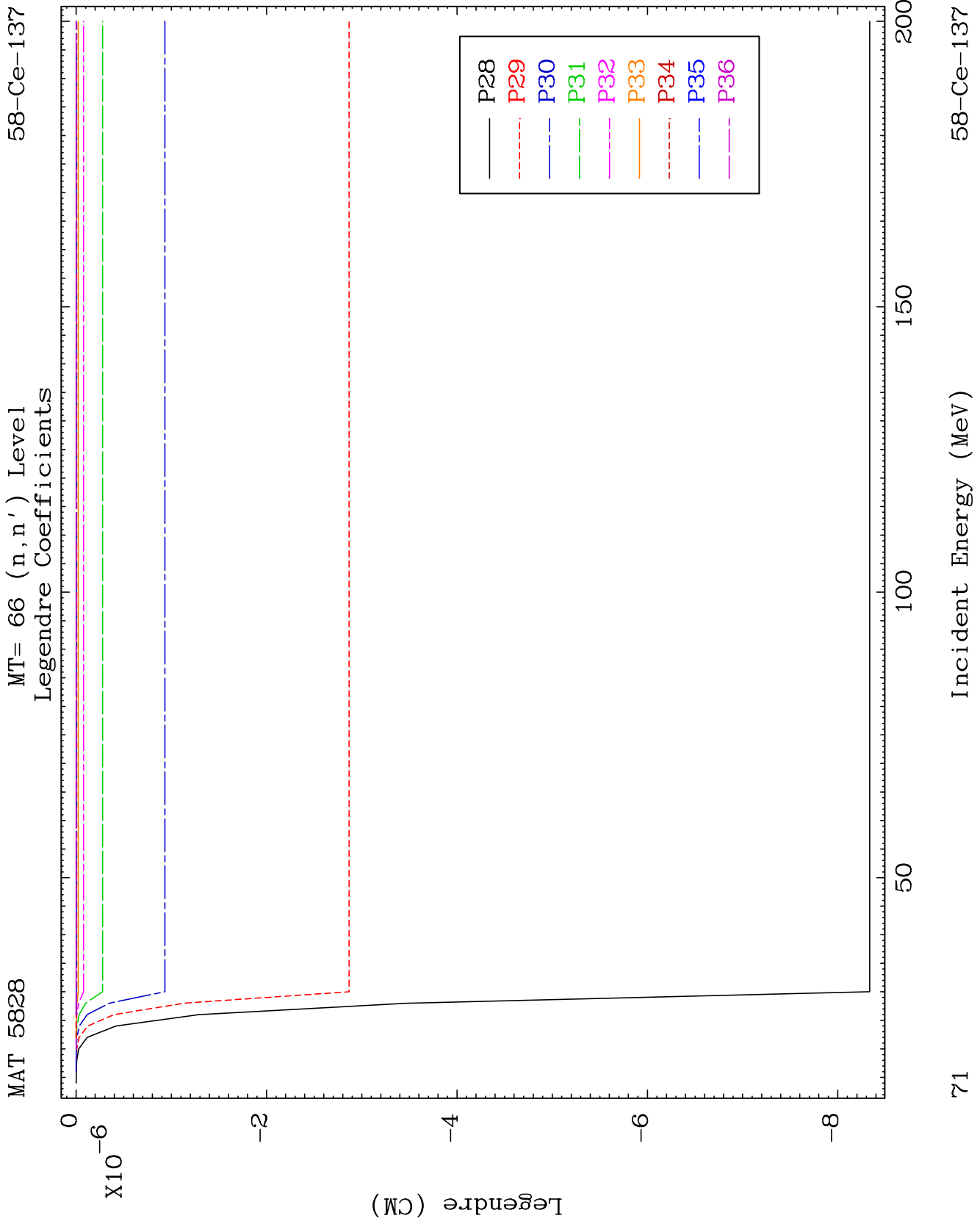
58-Ce-137



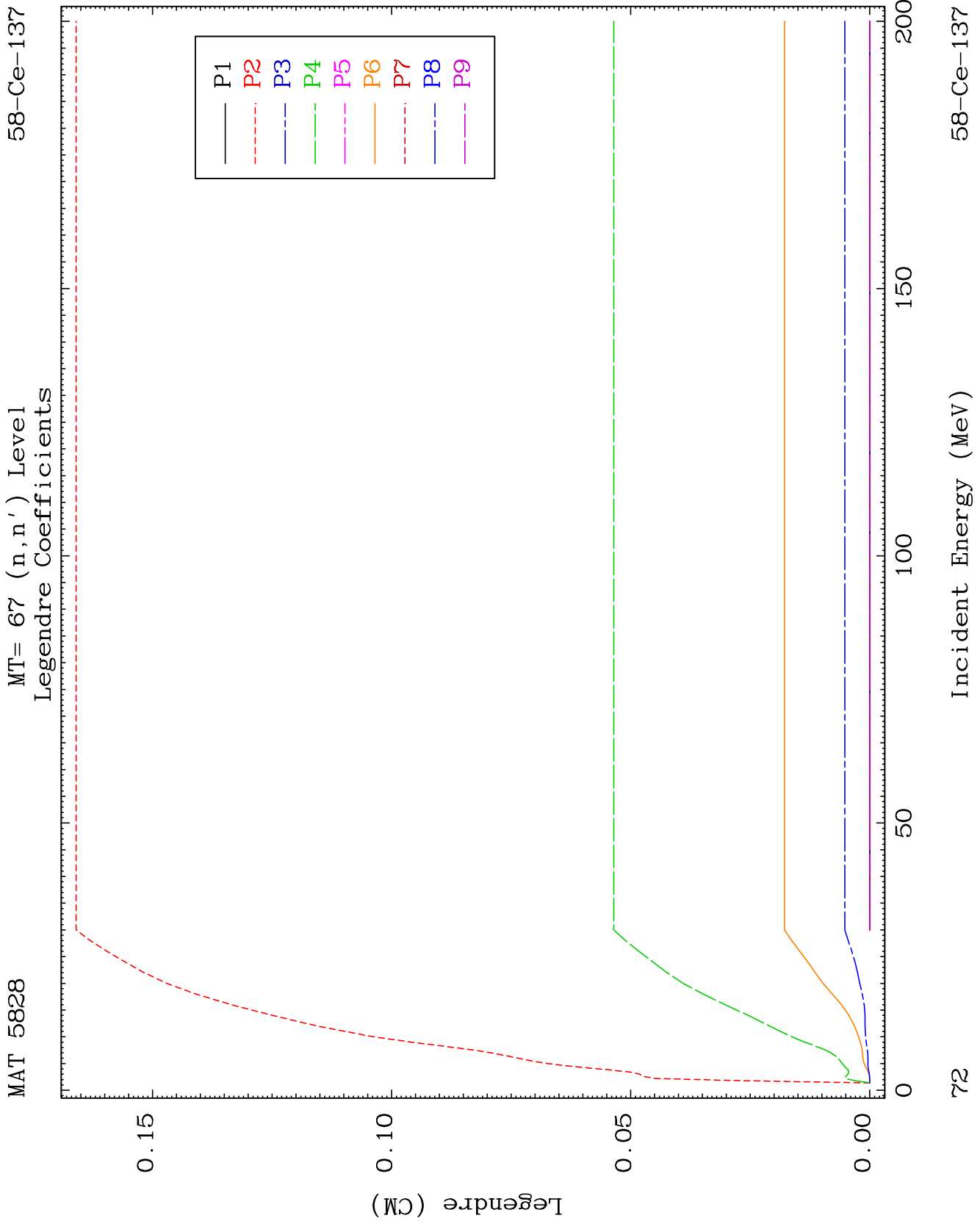
70

Incident Energy (MeV)

58-Ce-137



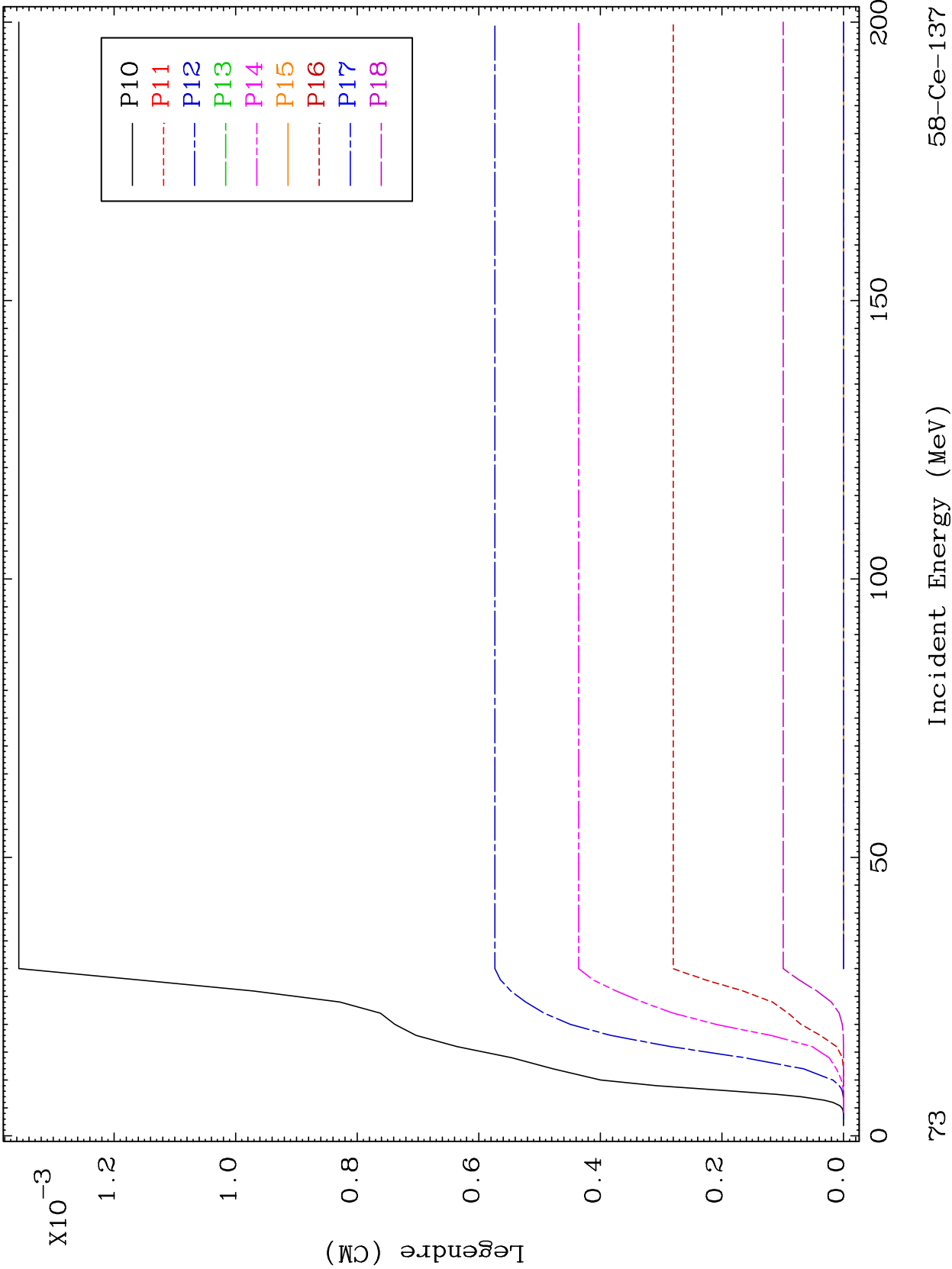




MAT 5828

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

58-Ce-137



73

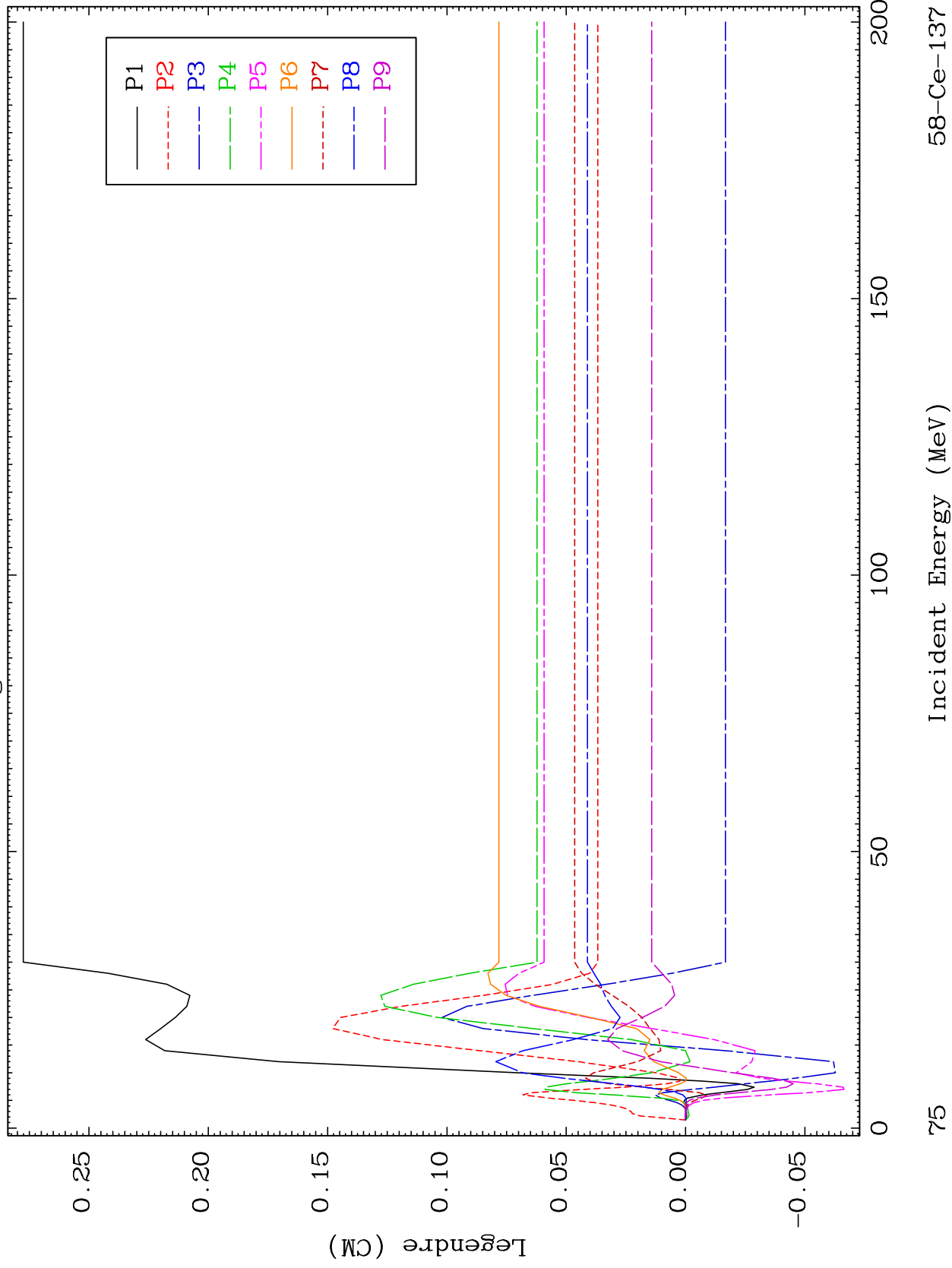
58-Ce-137



MAT 5828

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

58-Ce-137



58-Ce-137

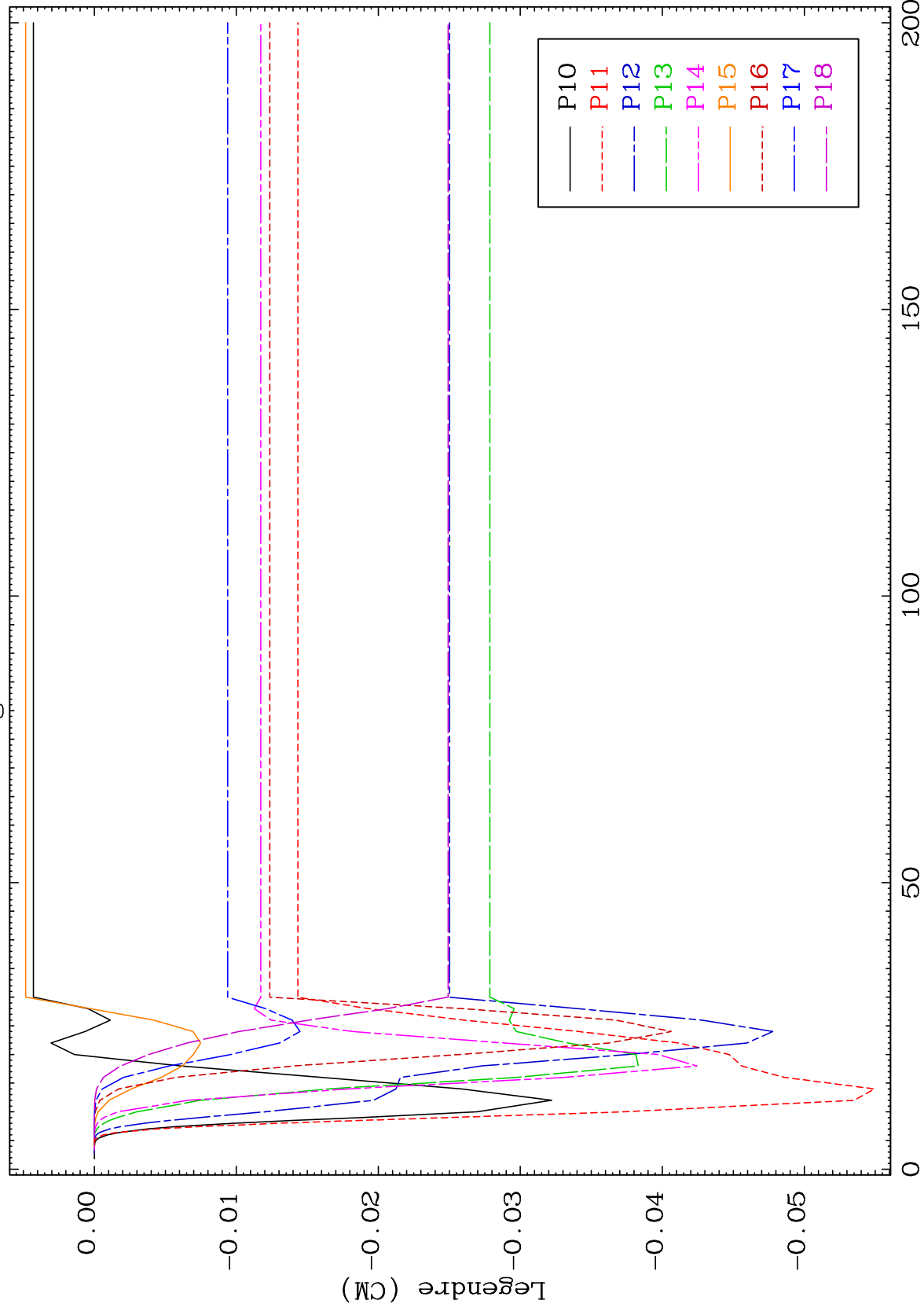
Incident Energy (MeV)

75

MAT 5828

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

58-Ce-137



76

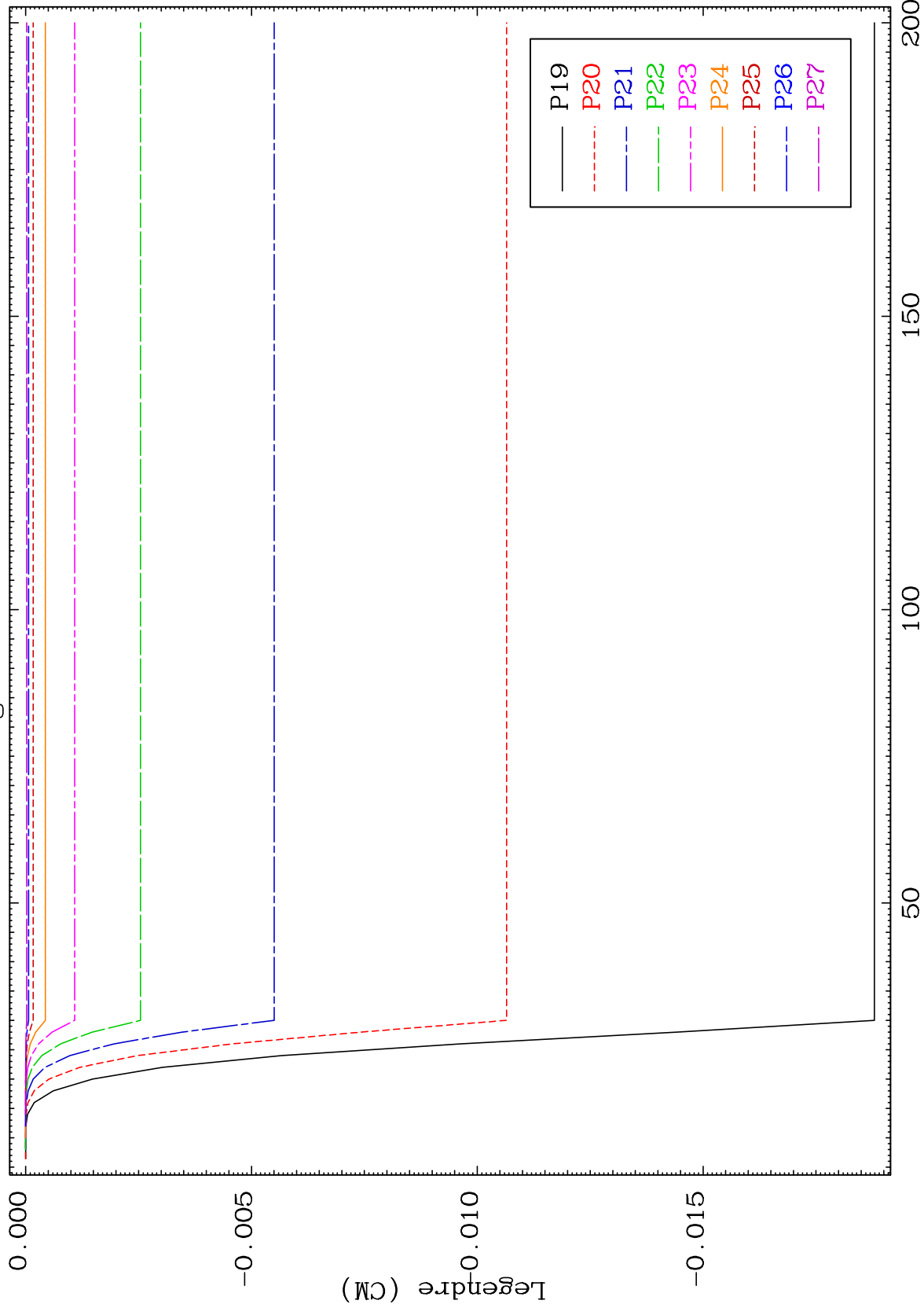
Incident Energy (MeV)

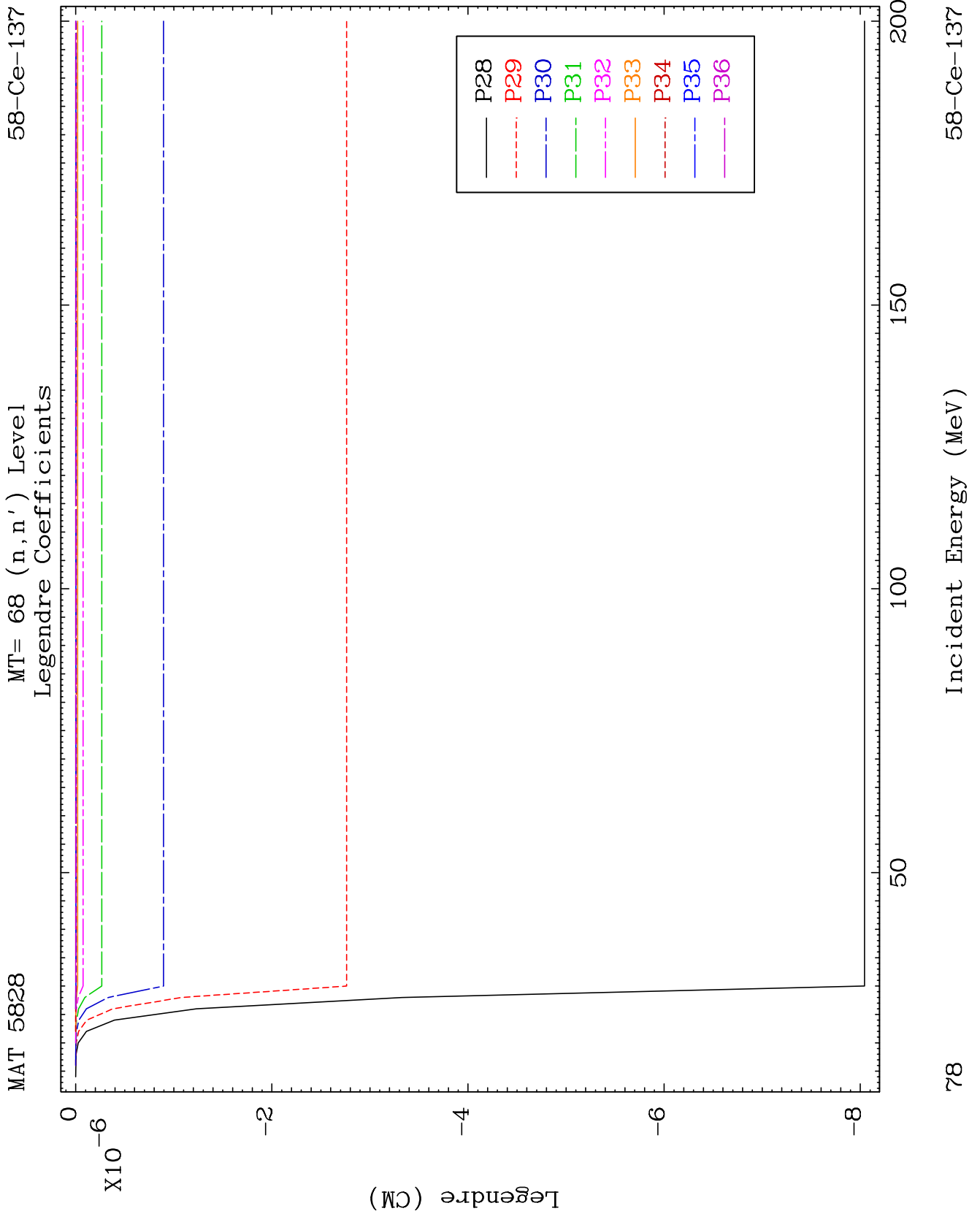
58-Ce-137

MAT 5828

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

58-Ce-137

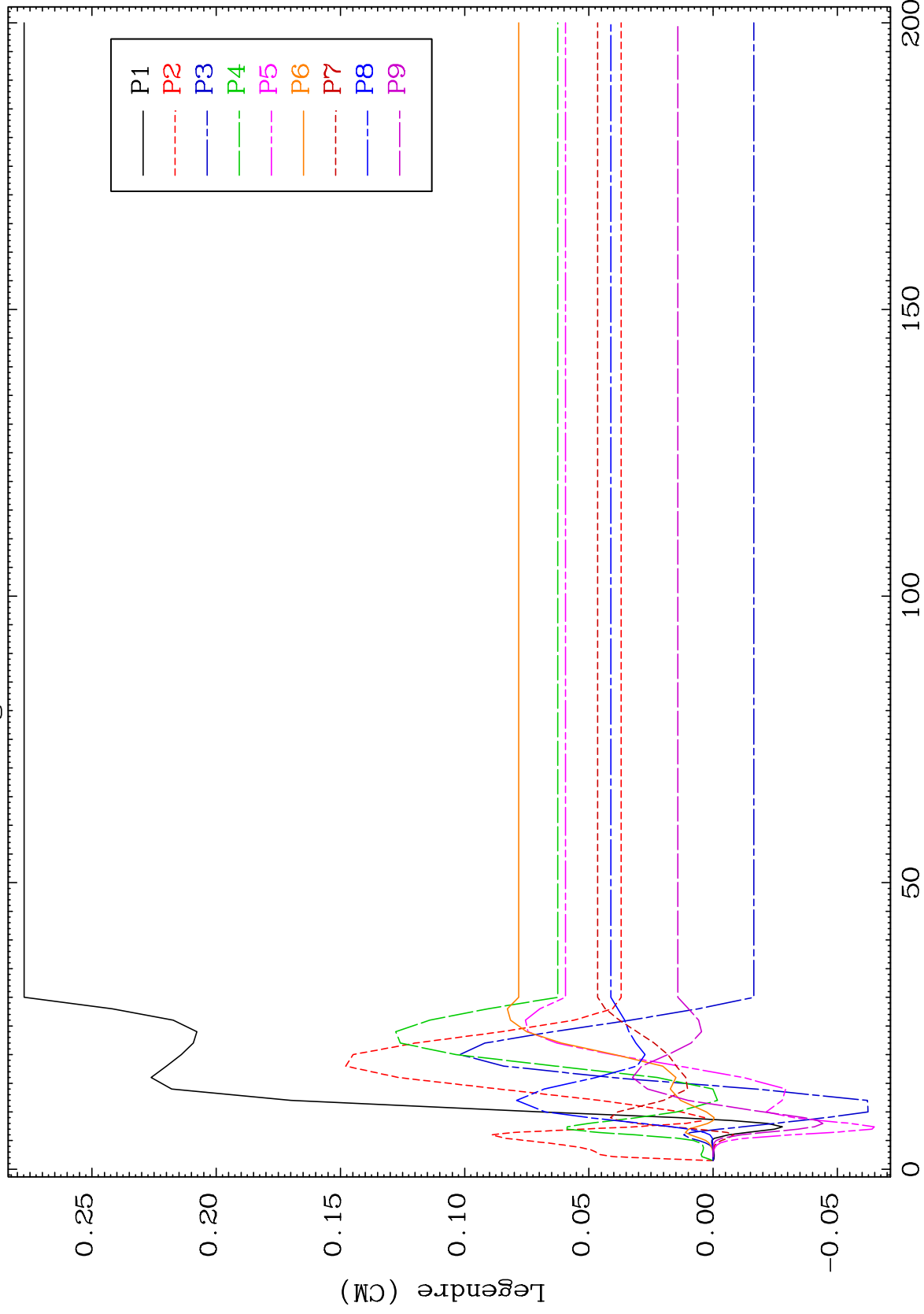




MAT 5828

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

58-Ce-137



79

Incident Energy (MeV)

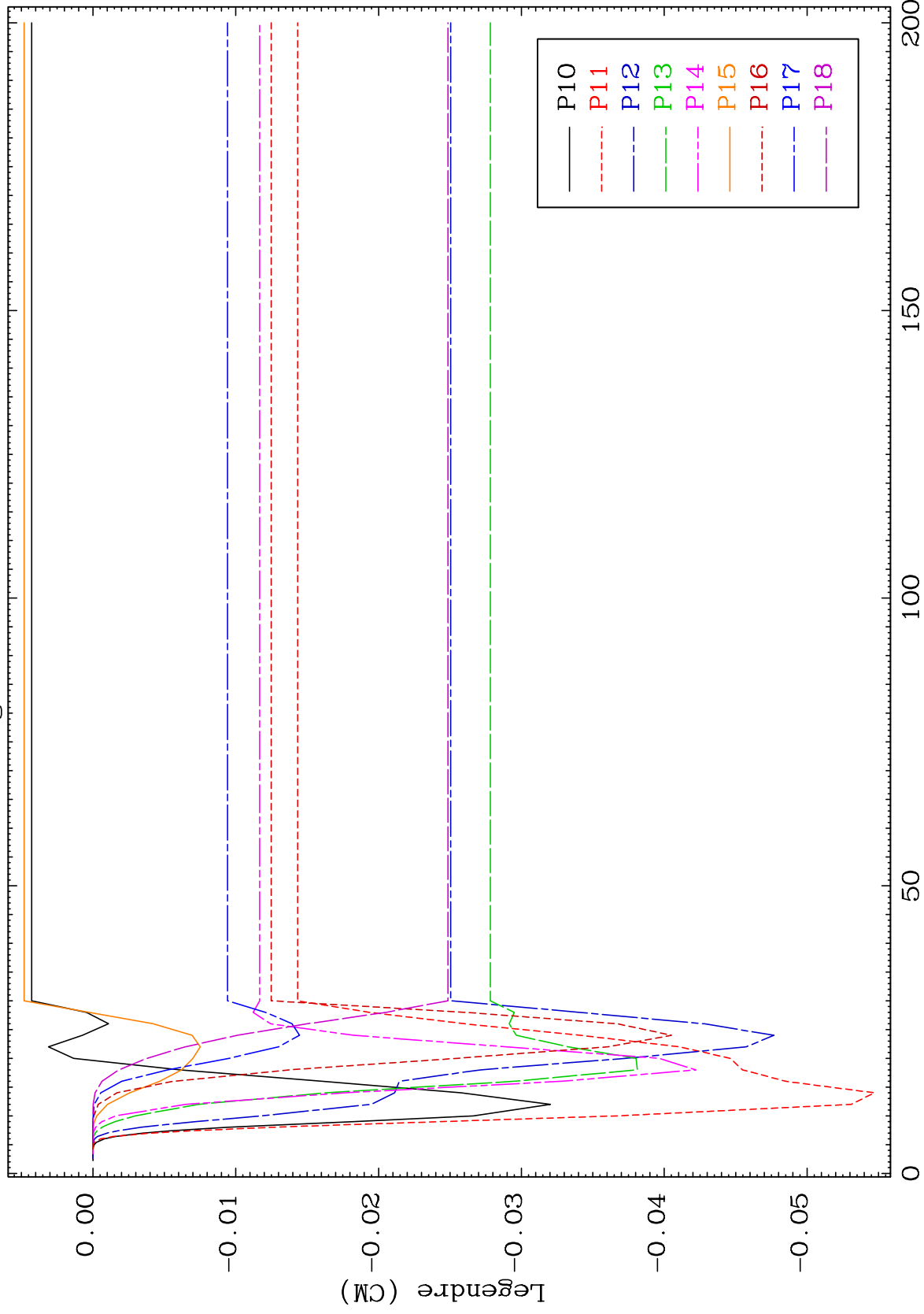
58-Ce-137



MAT 5828

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

58-Ce-137



80

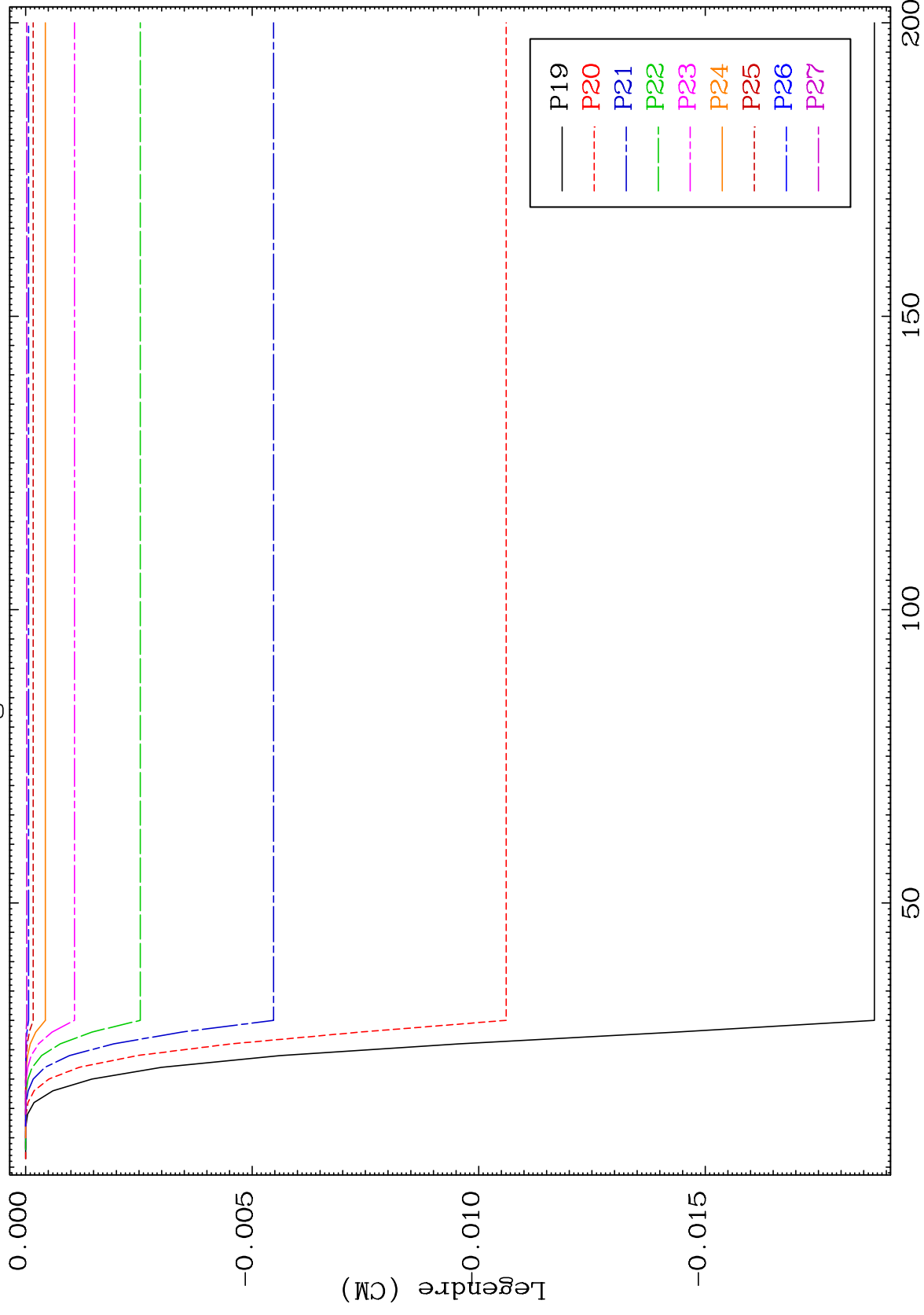
Incident Energy (MeV)

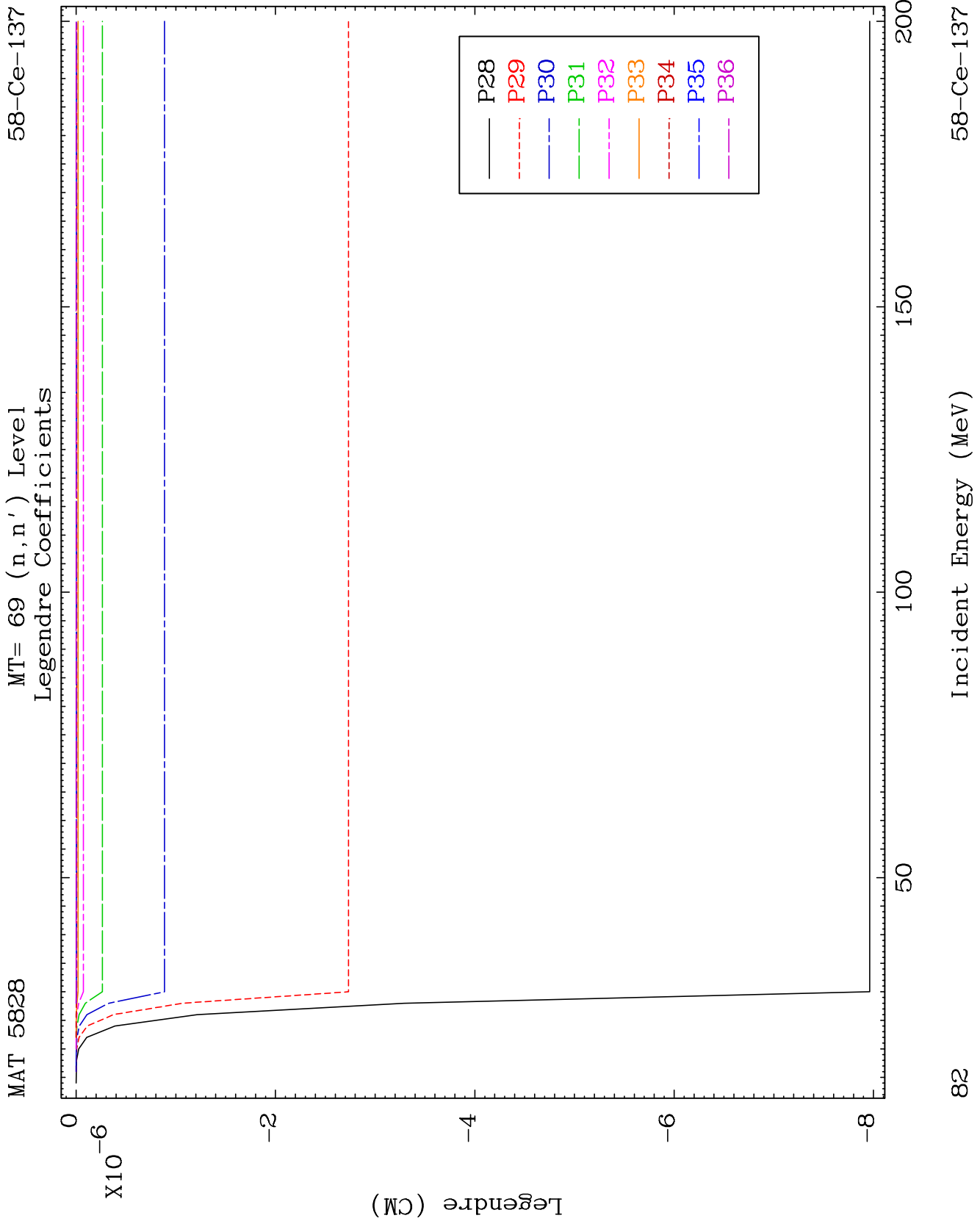
58-Ce-137

MAT 5828

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

58-Ce-137

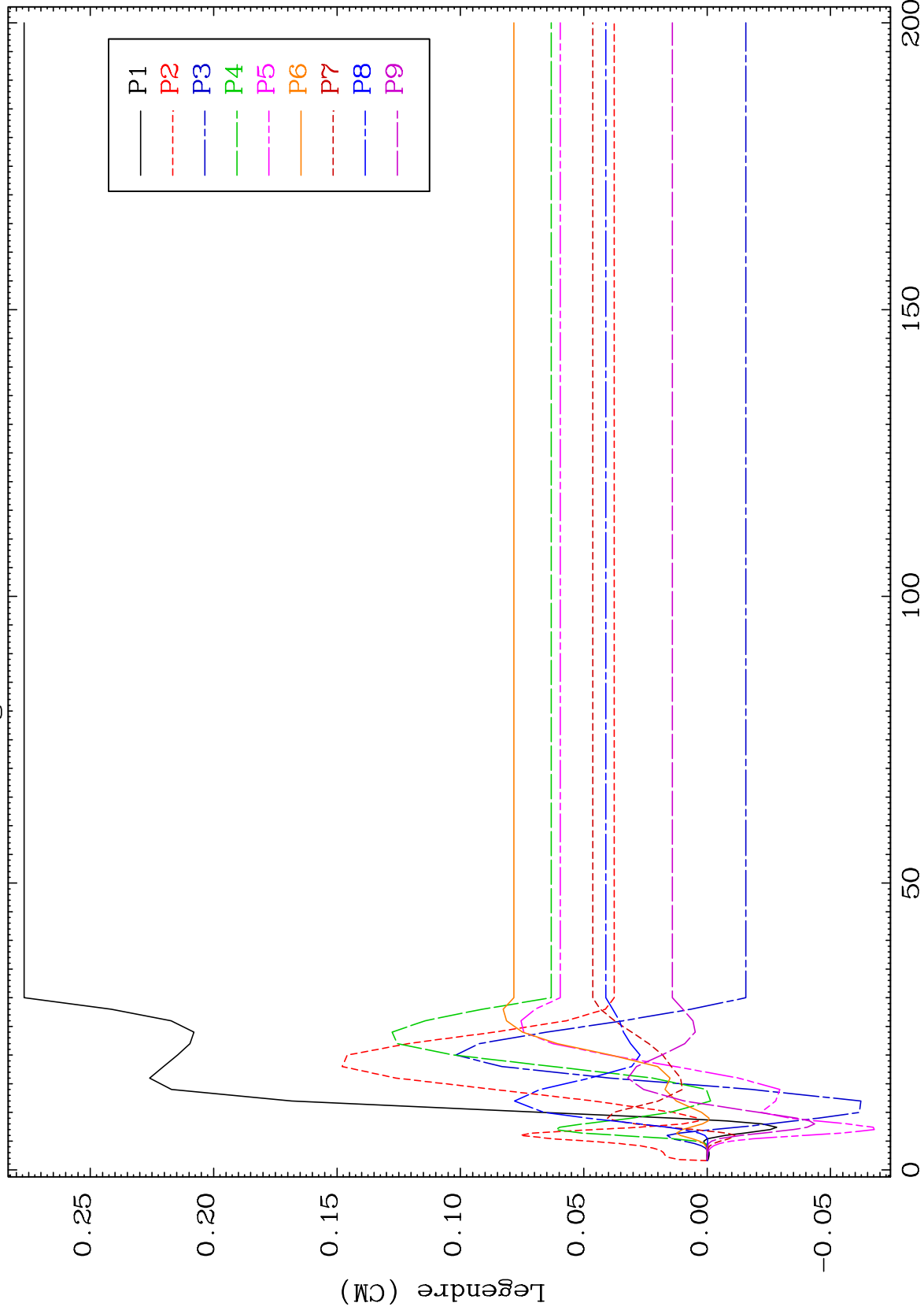




MAT 5828

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

58-Ce-137



83

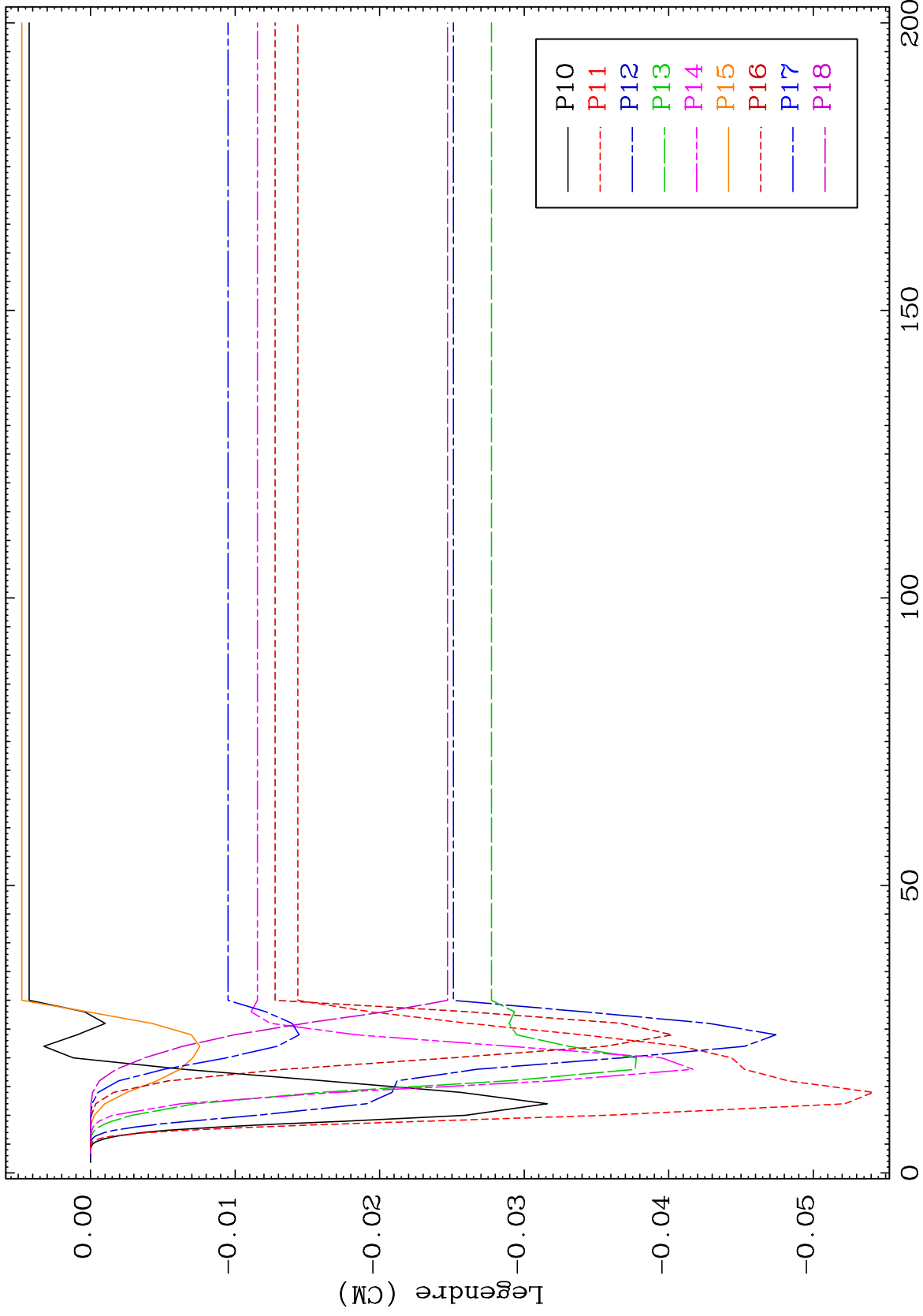
Incident Energy (MeV)

58-Ce-137

MAT 5828

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

58-Ce-137



84

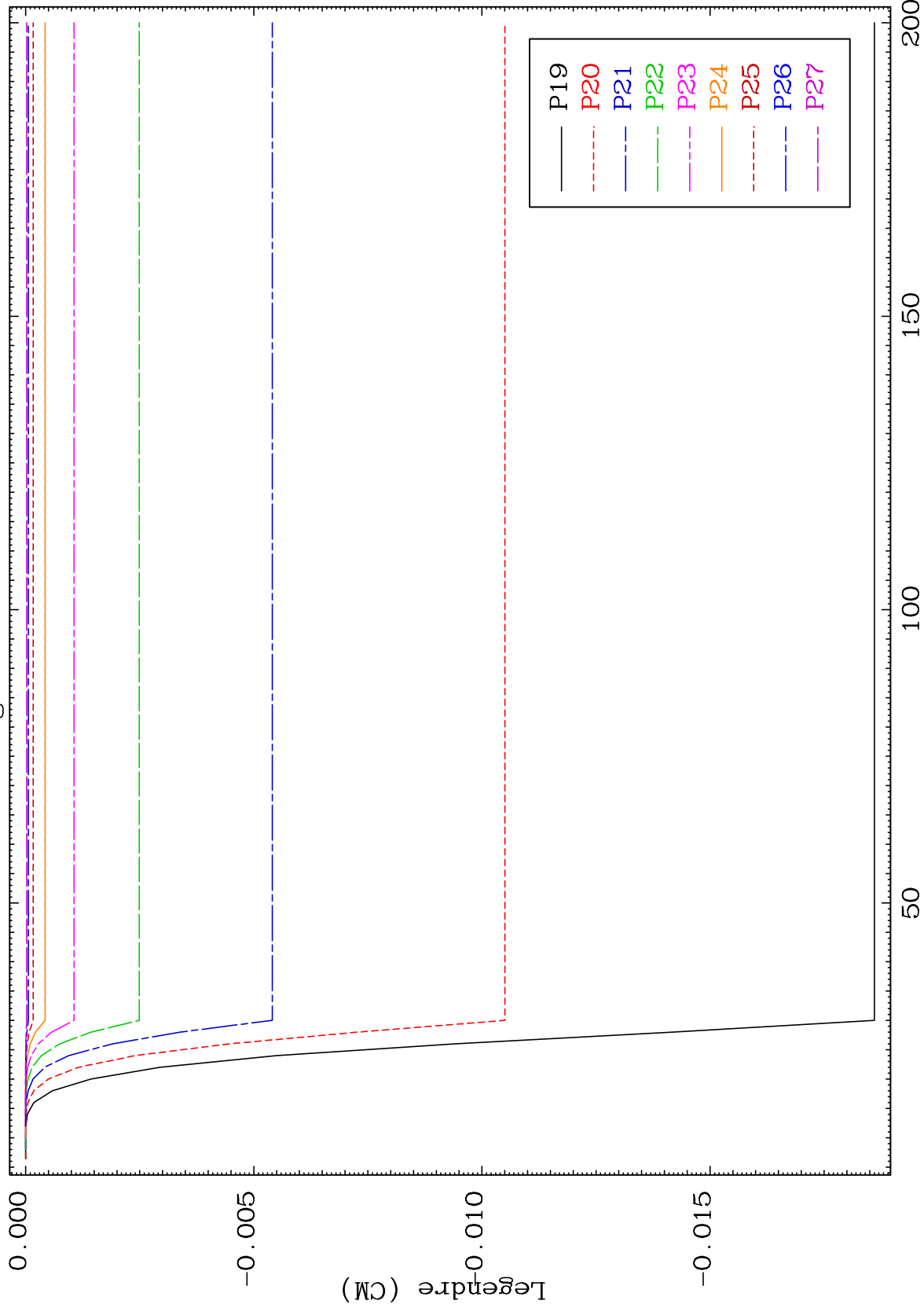
Incident Energy (MeV)

58-Ce-137

MAT 5828

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

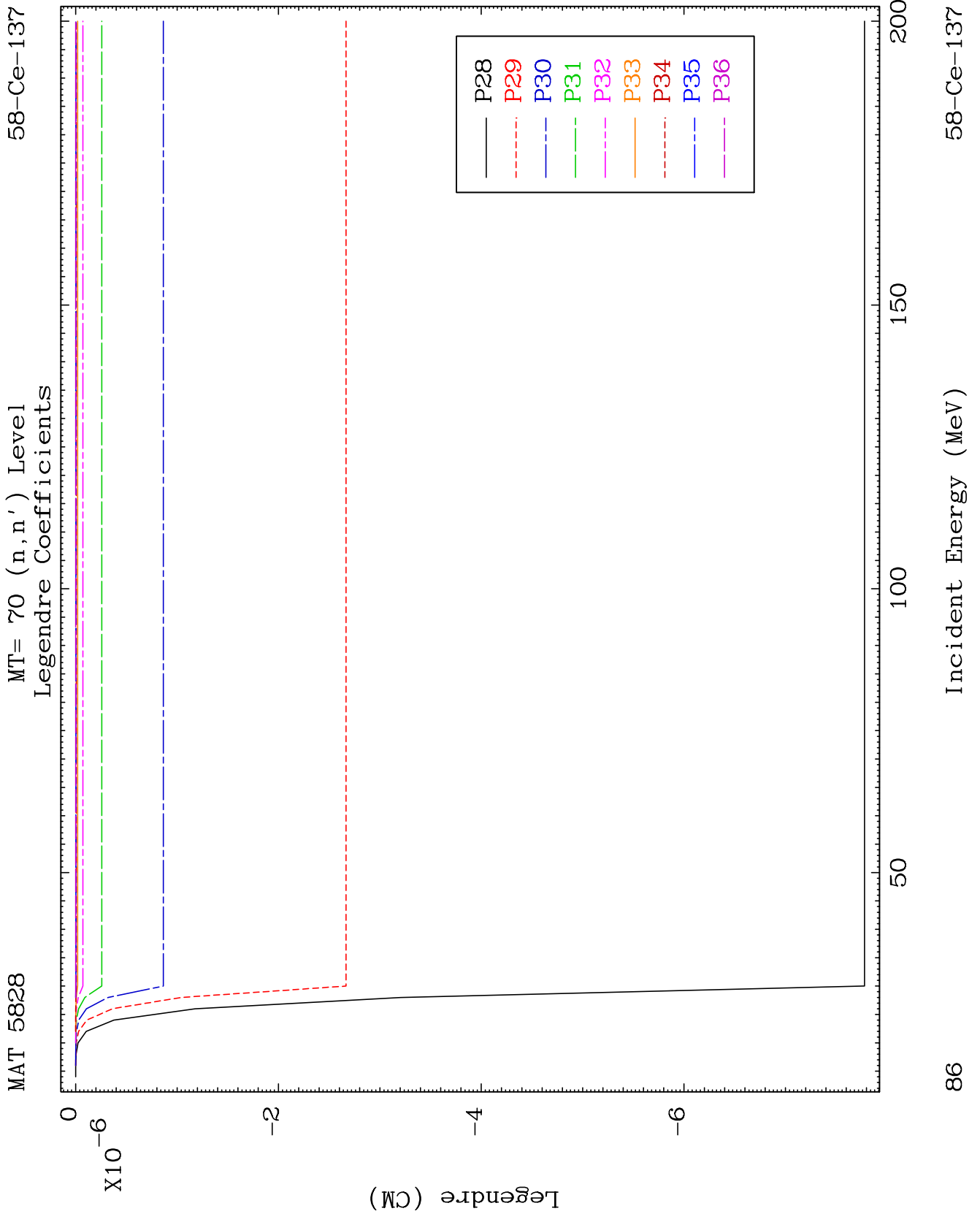
58-Ce-137



85

Incident Energy (MeV)

58-Ce-137



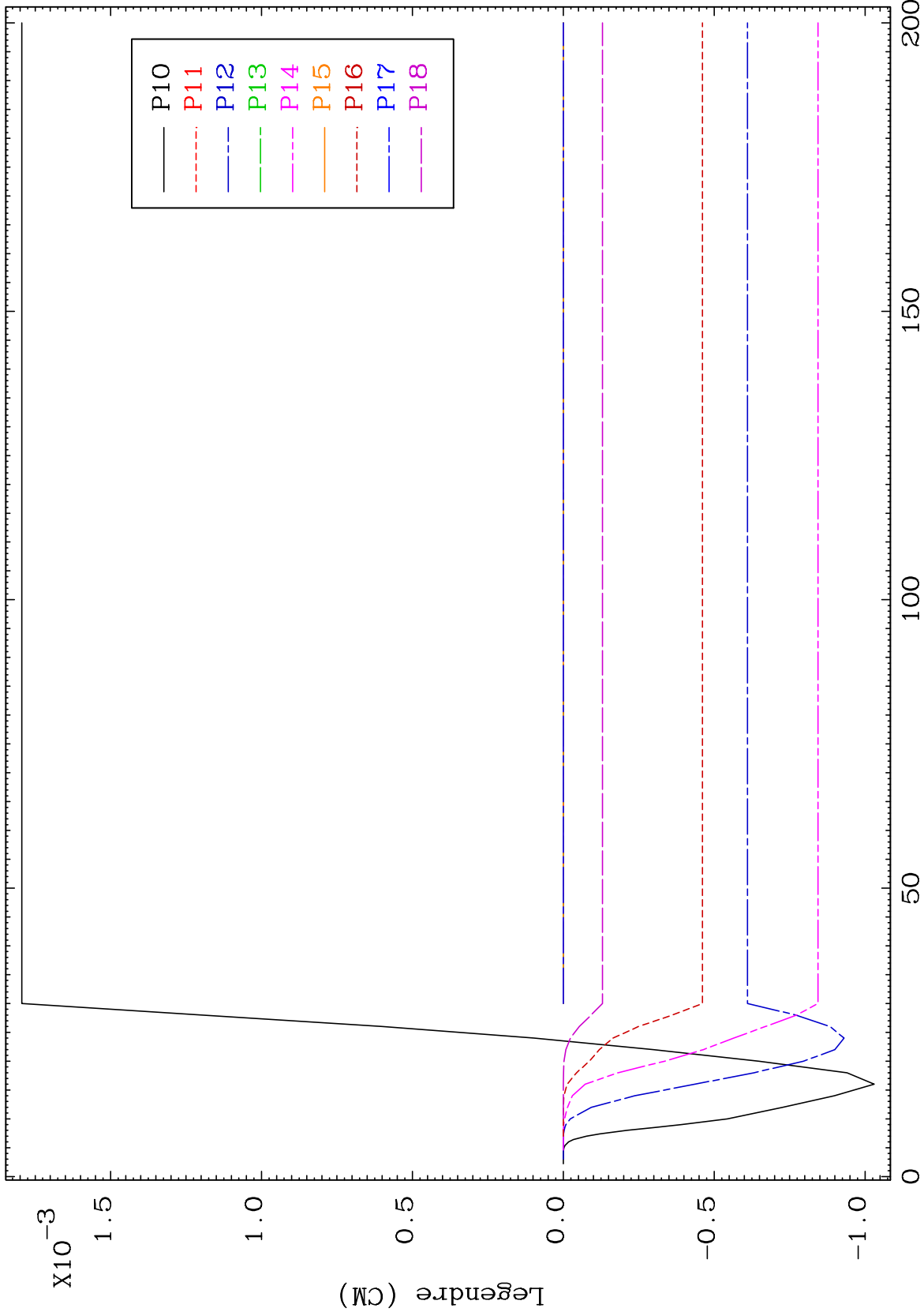




MAT 5828

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

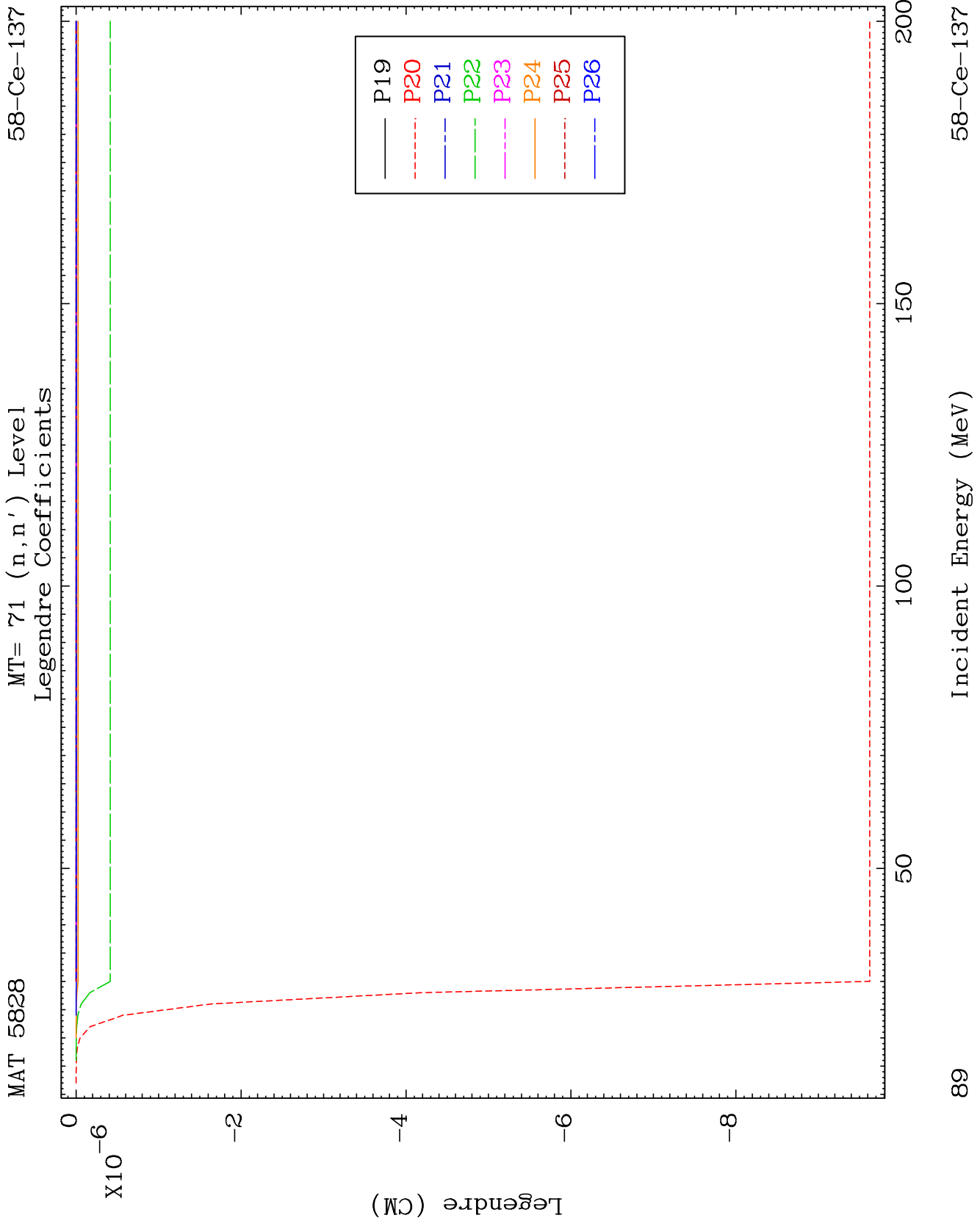
58-Ce-137



88

Incident Energy (MeV)

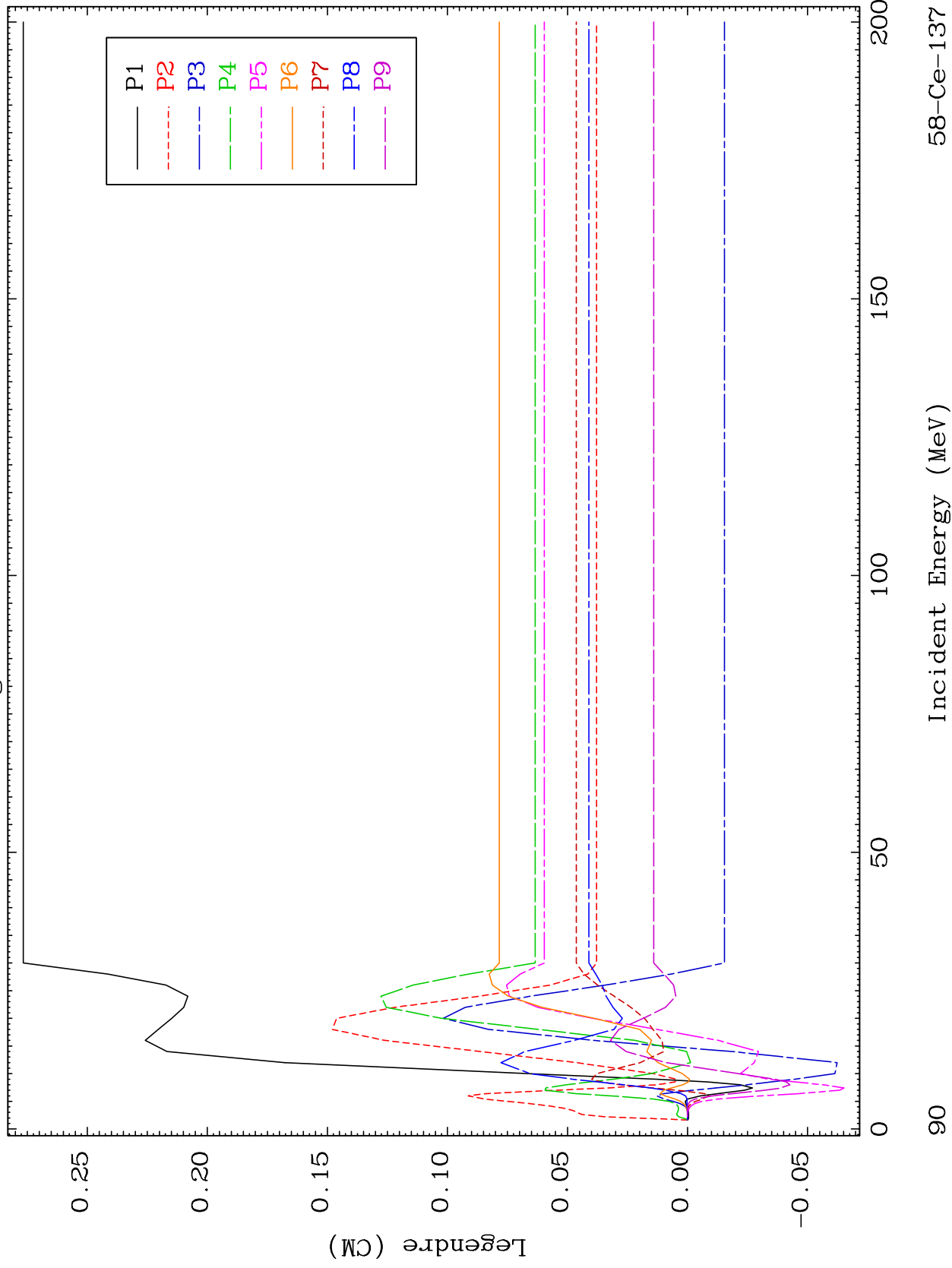
58-Ce-137



MAT 5828

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

58-Ce-137



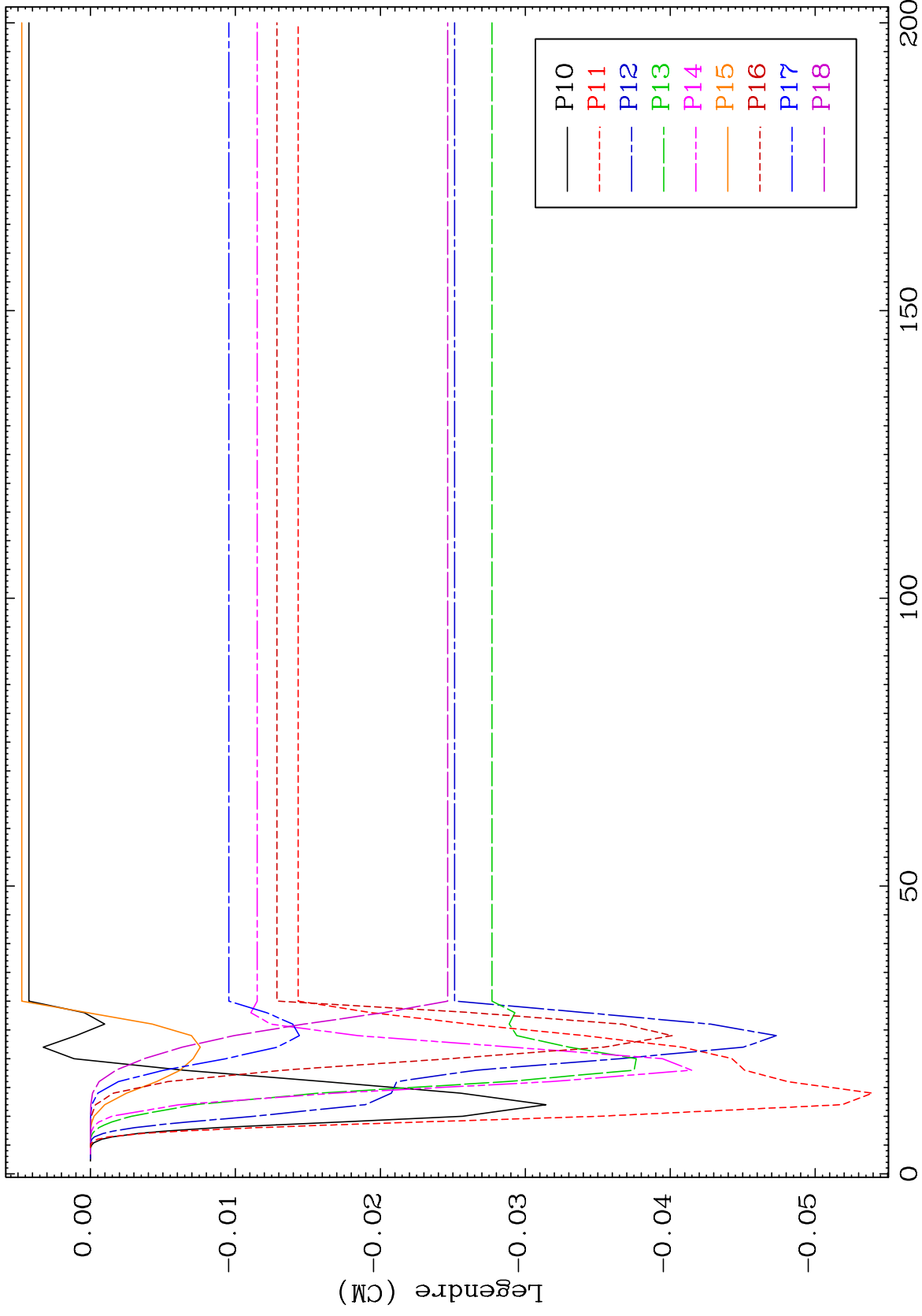
58-Ce-137

Incident Energy (MeV)

MAT 5828

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

58-Ce-137



91

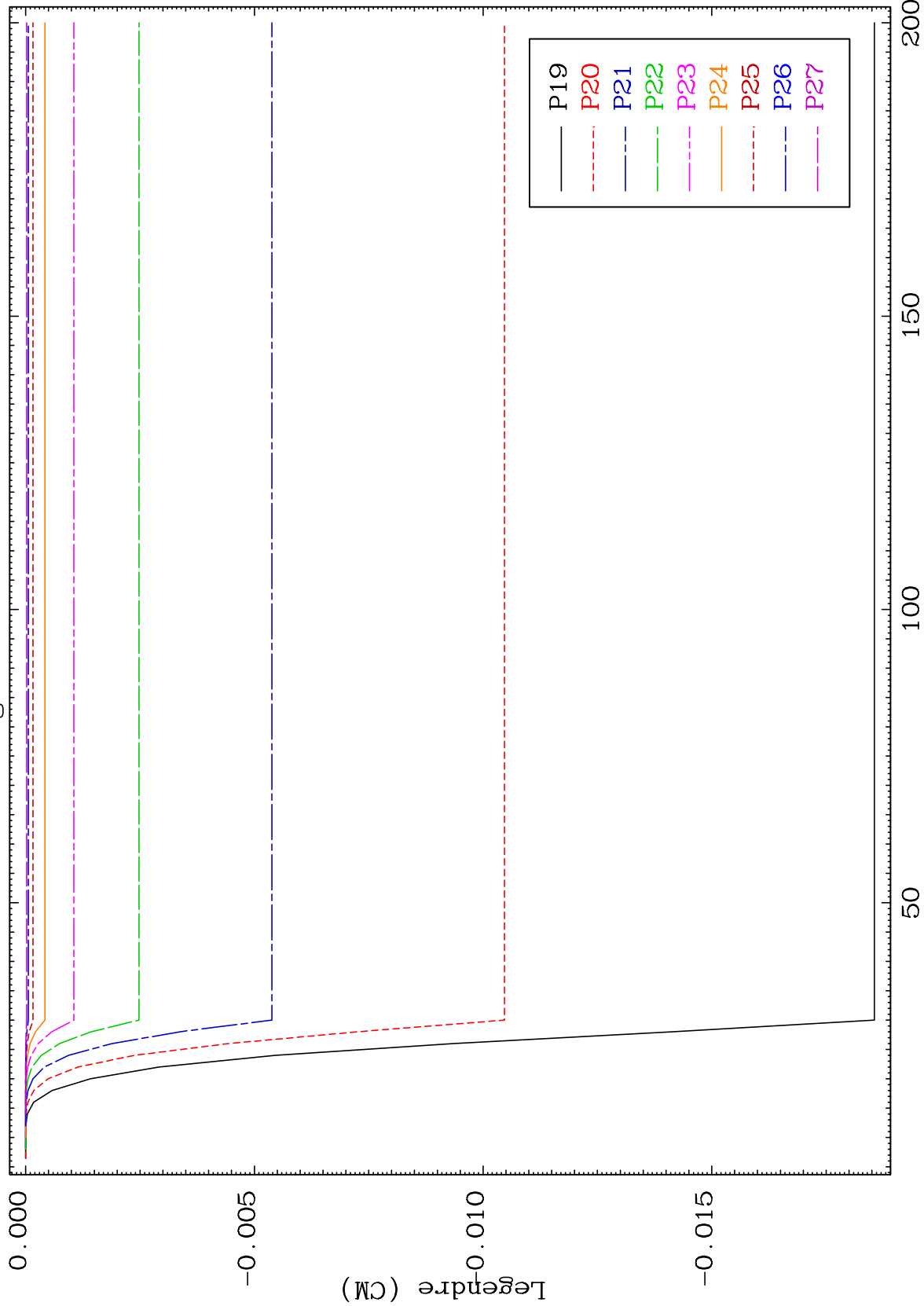
Incident Energy (MeV)

58-Ce-137

MAT 5828

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

58-Ce-137



58-Ce-137

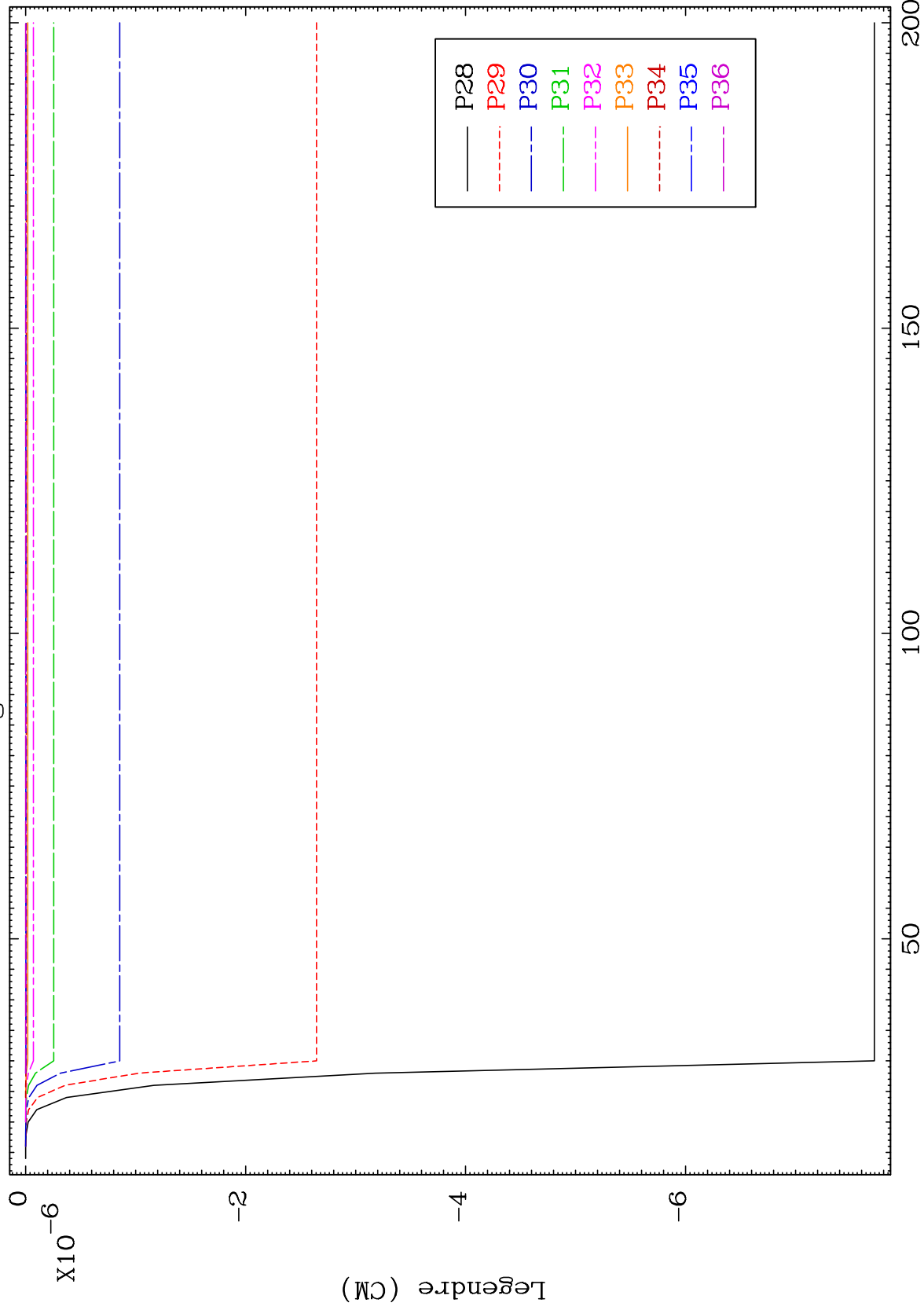
Incident Energy (MeV)

92

MAT 5828

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

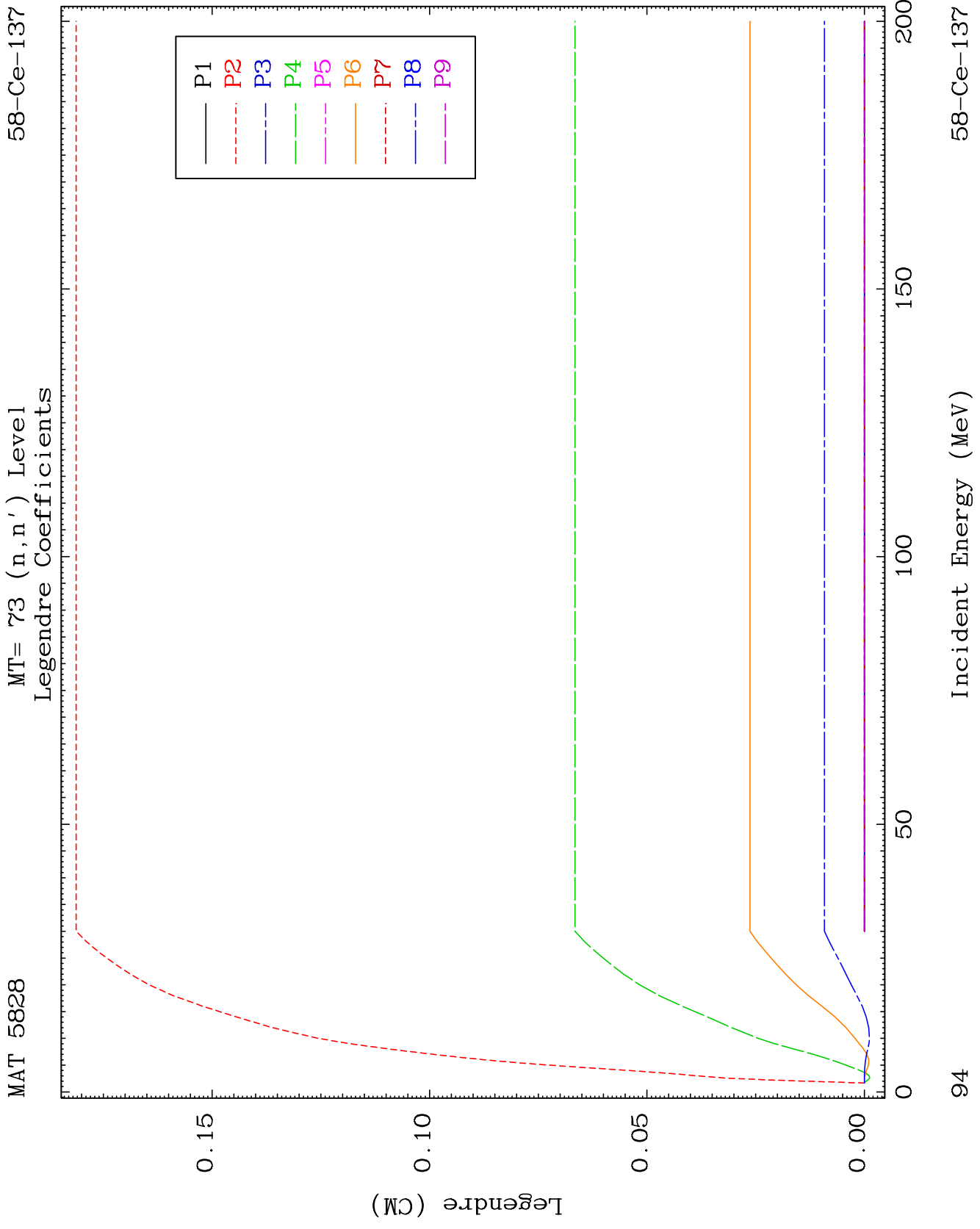
58-Ce-137



93

Incident Energy (MeV)

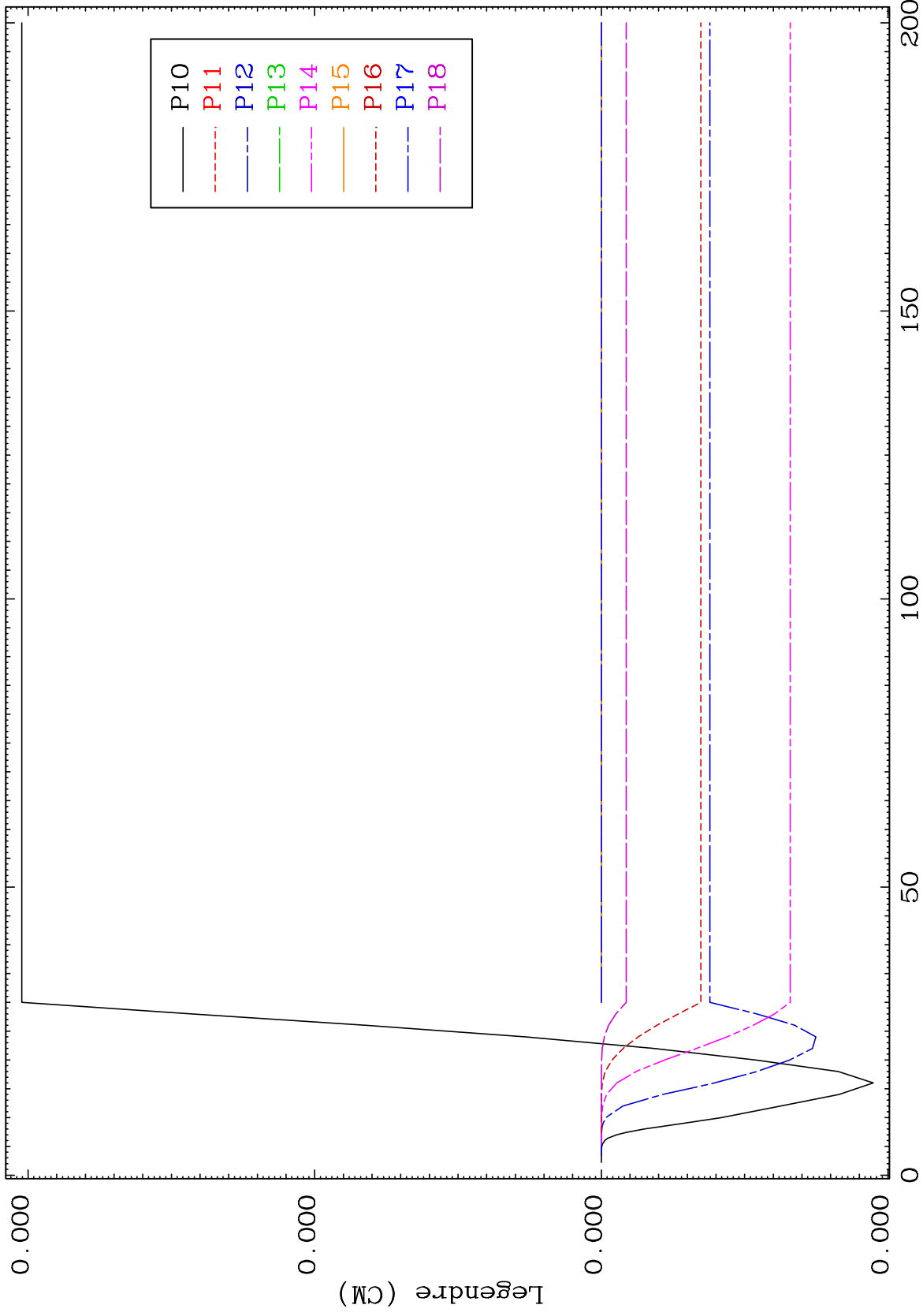
58-Ce-137



MAT 5828

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

58-Ce-137

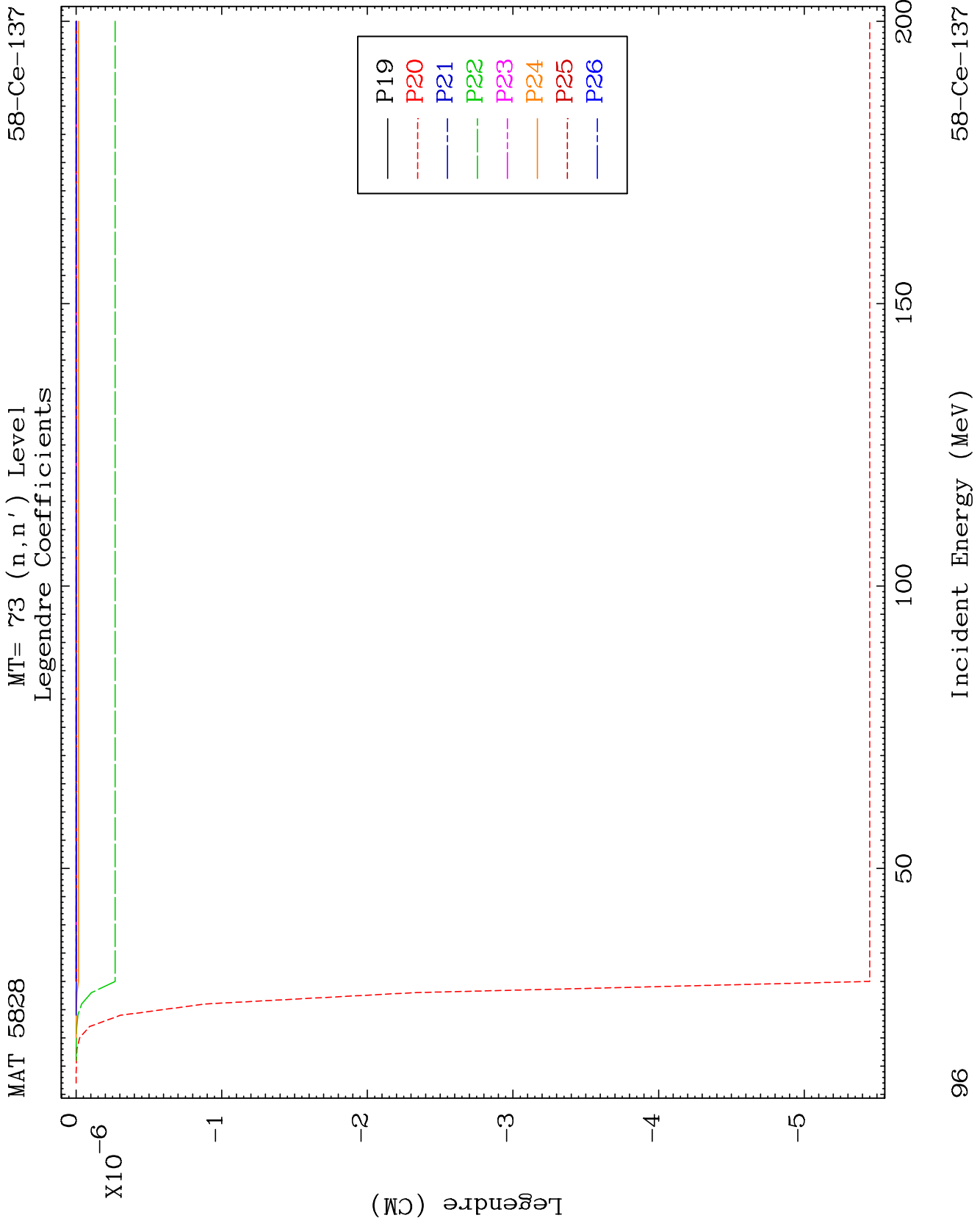


95

Incident Energy (MeV)

58-Ce-137

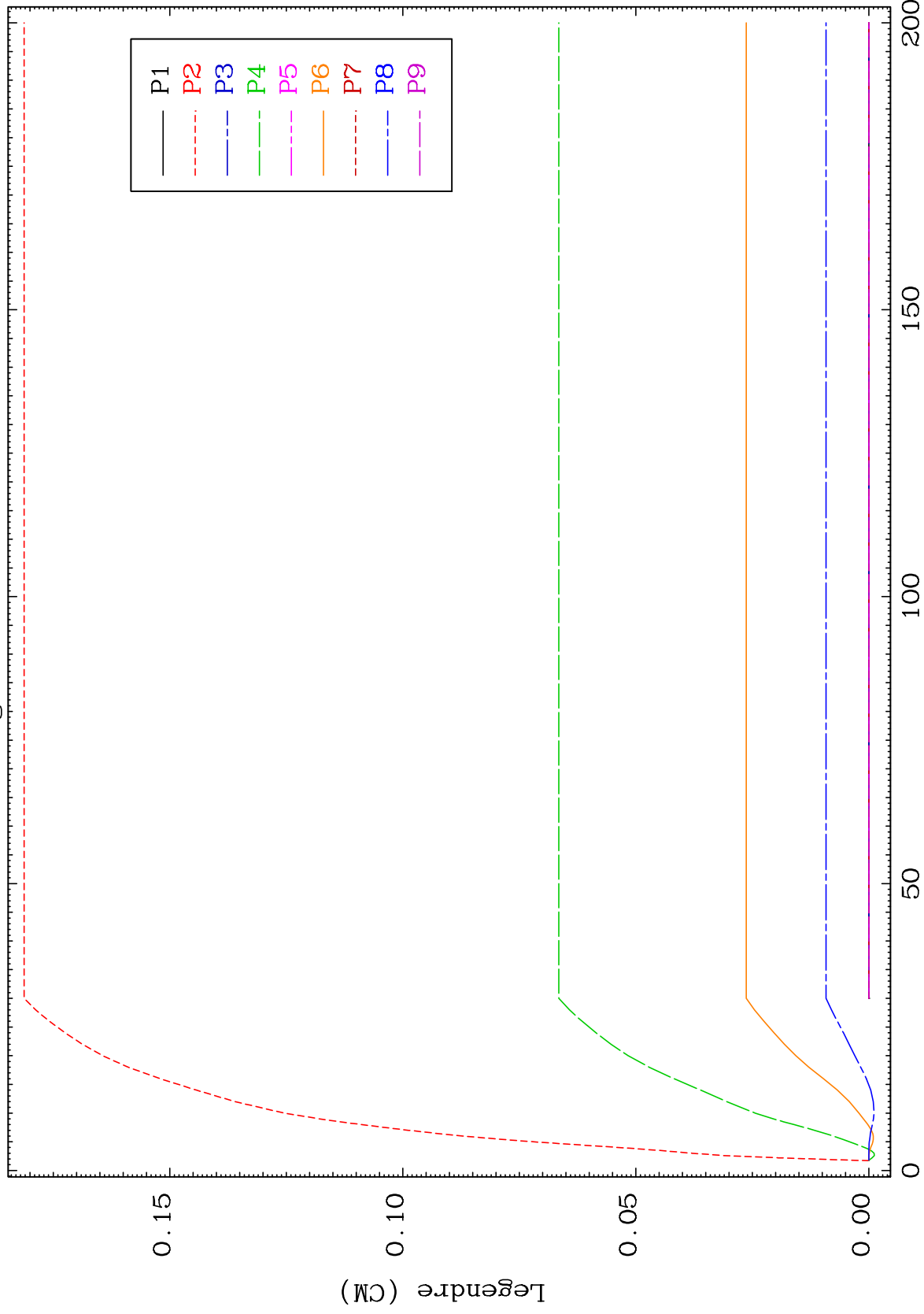




MAT 5828

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

58-Ce-137



97

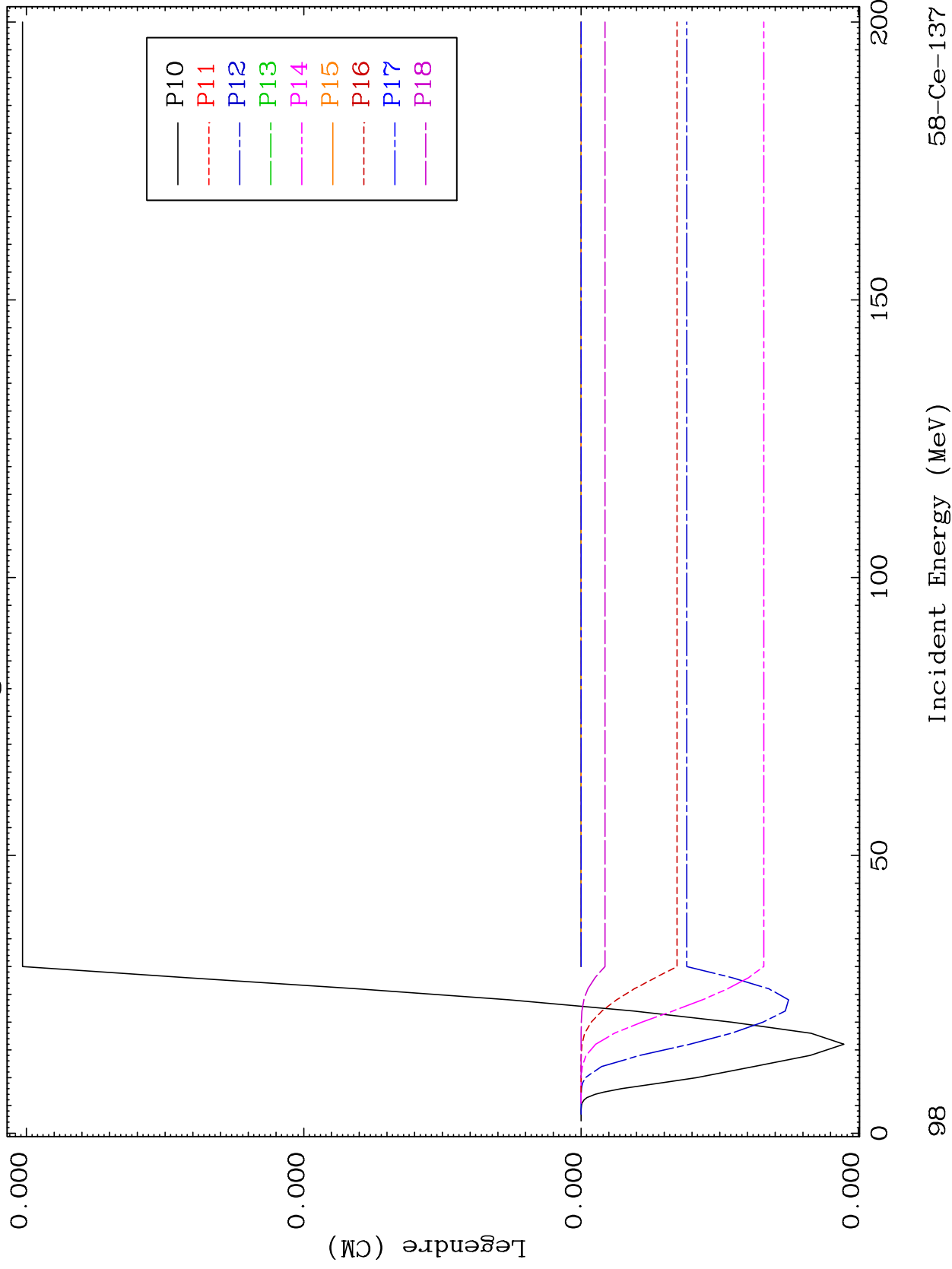
Incident Energy (MeV)

58-Ce-137

MAT 5828

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

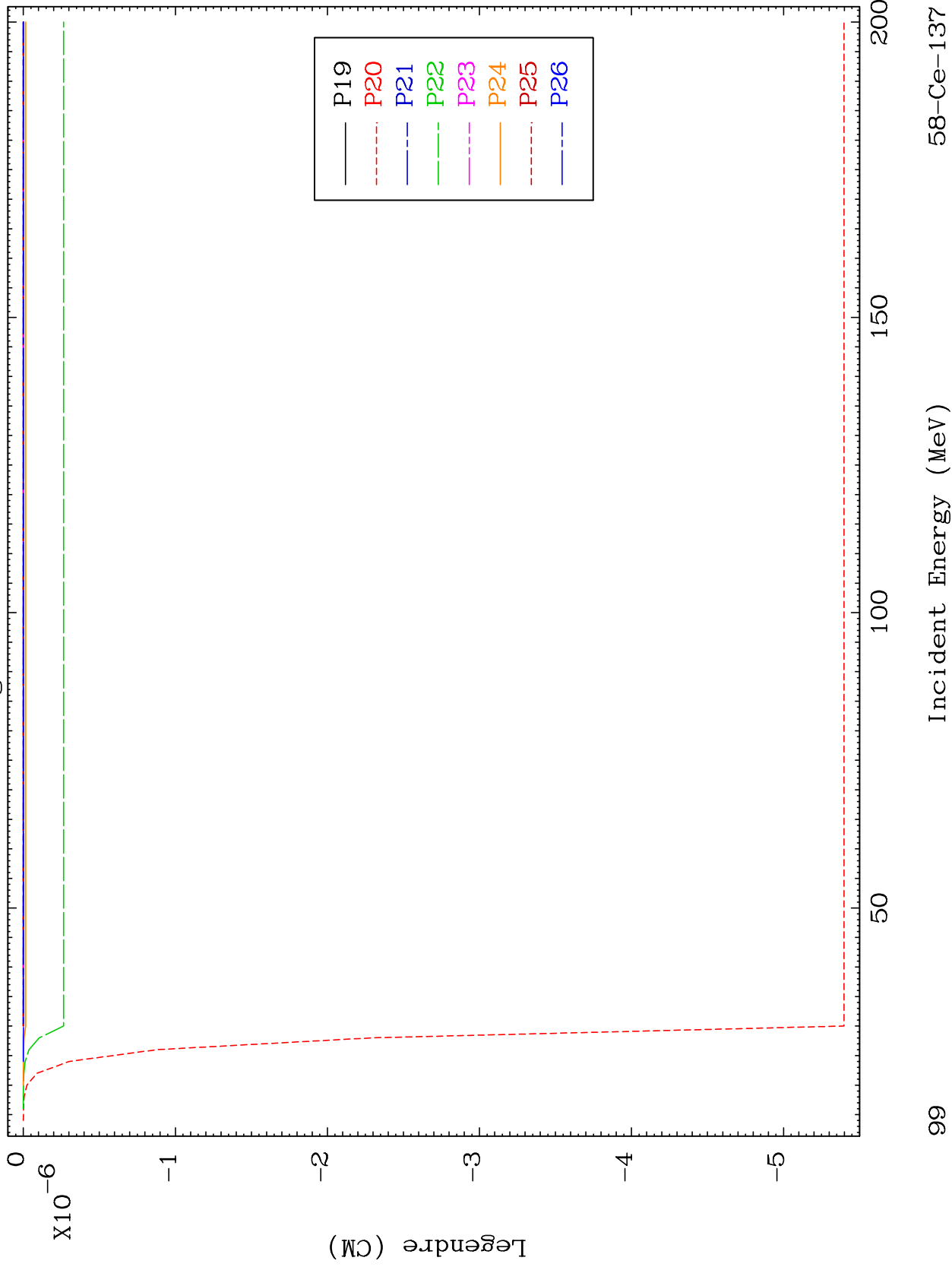
58-Ce-137

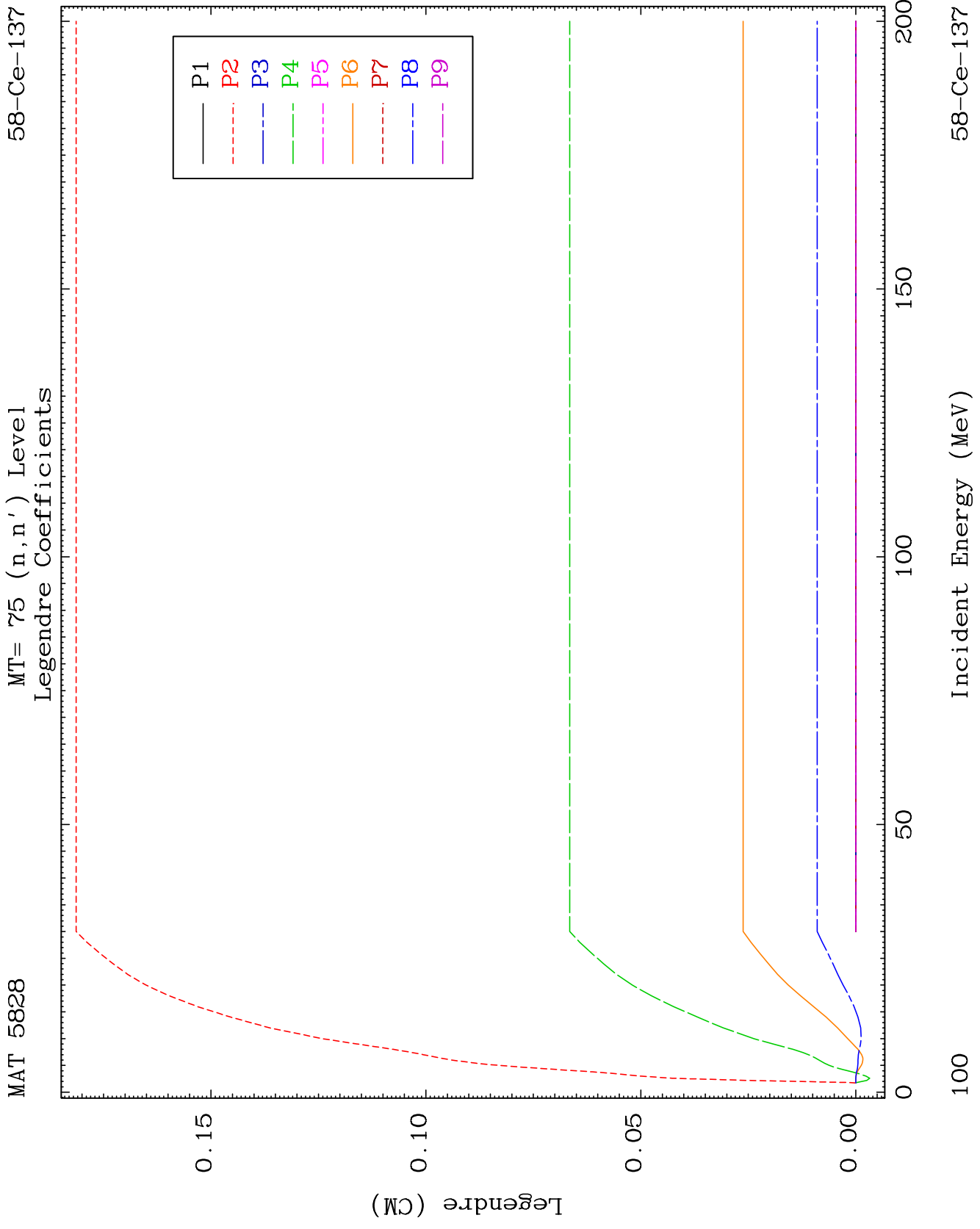


MAT 5828

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

58-Ce-137

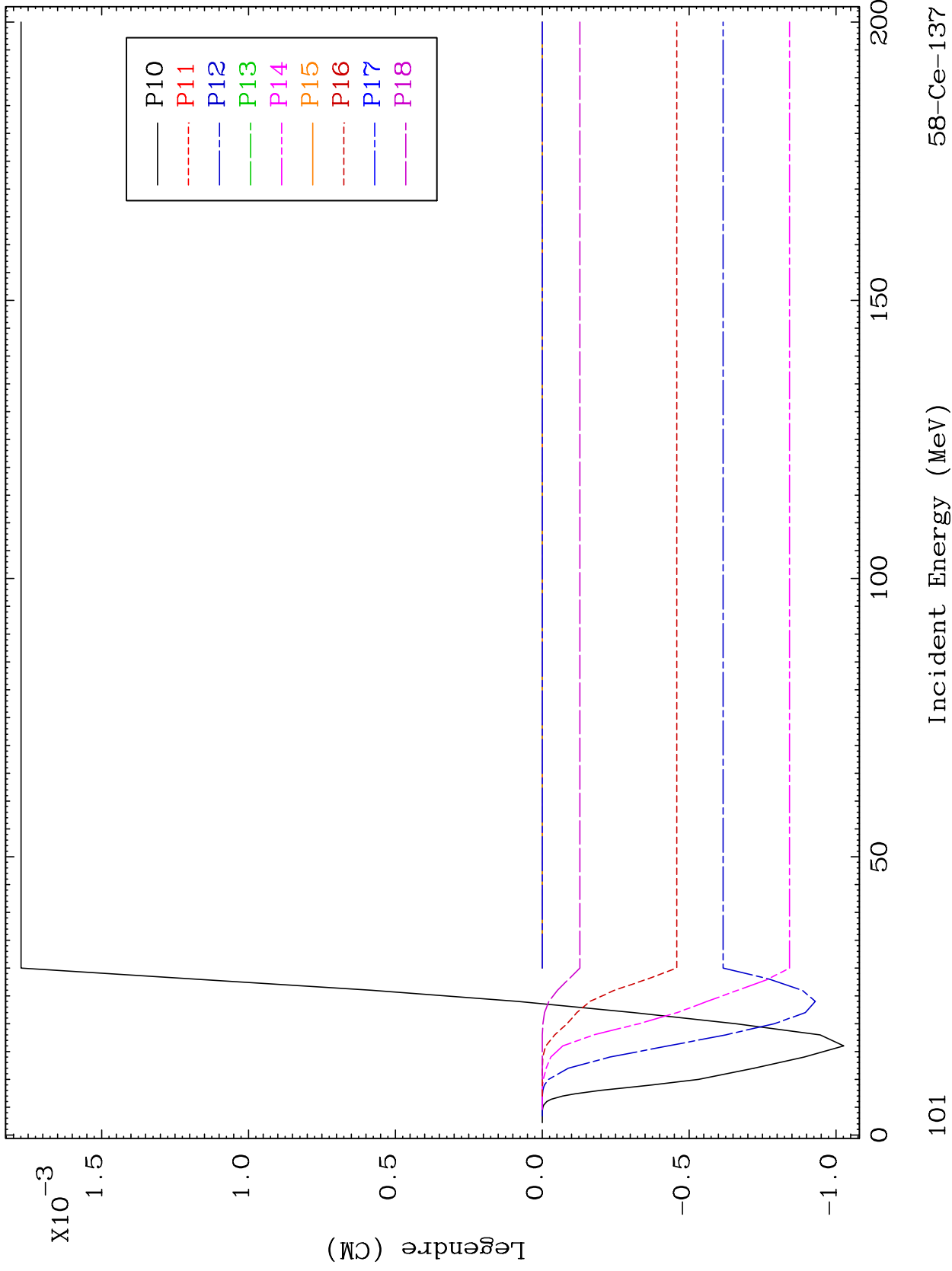


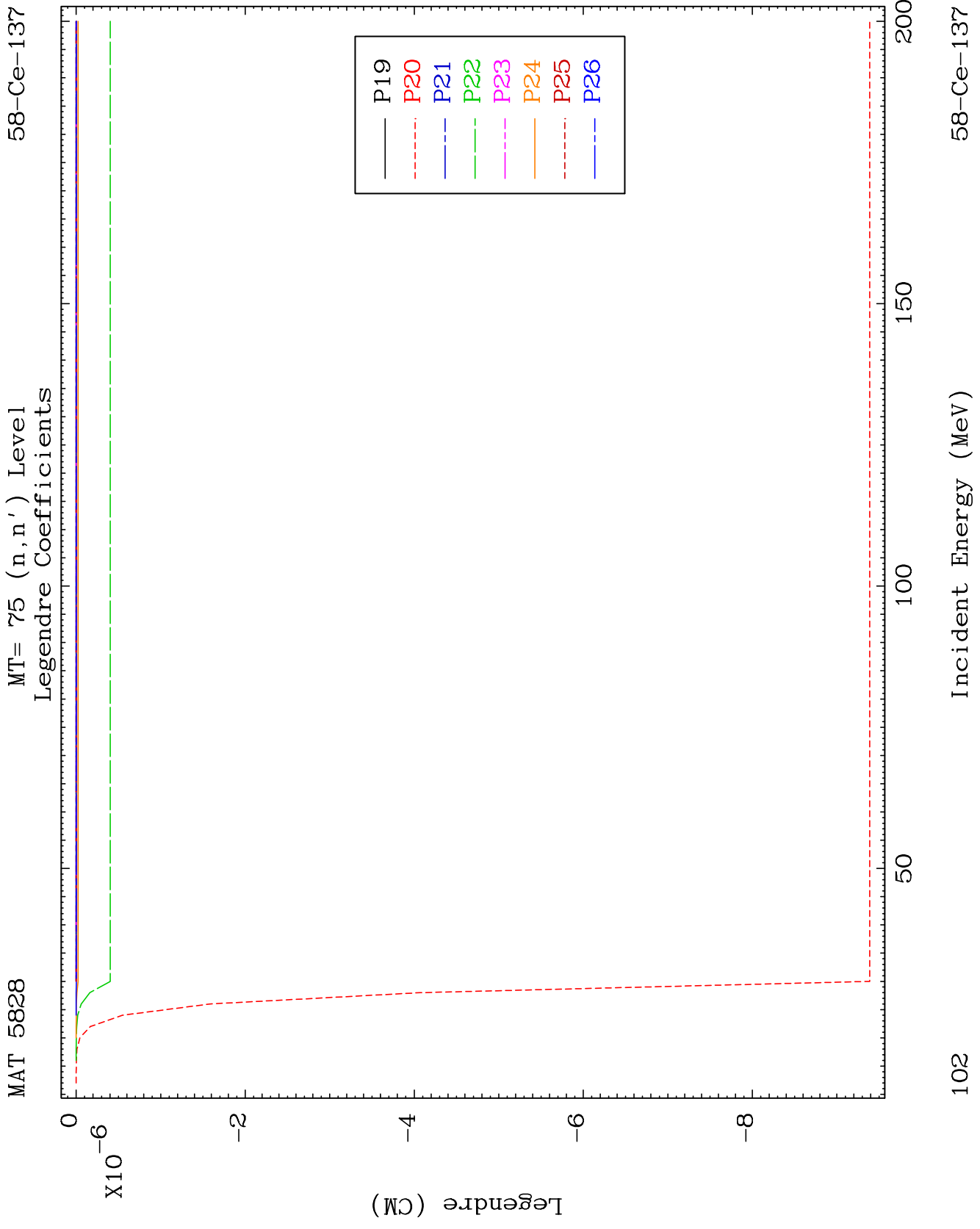


MAT 5828

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

58-Ce-137





58-Ce-137

Incident Energy (MeV)

102

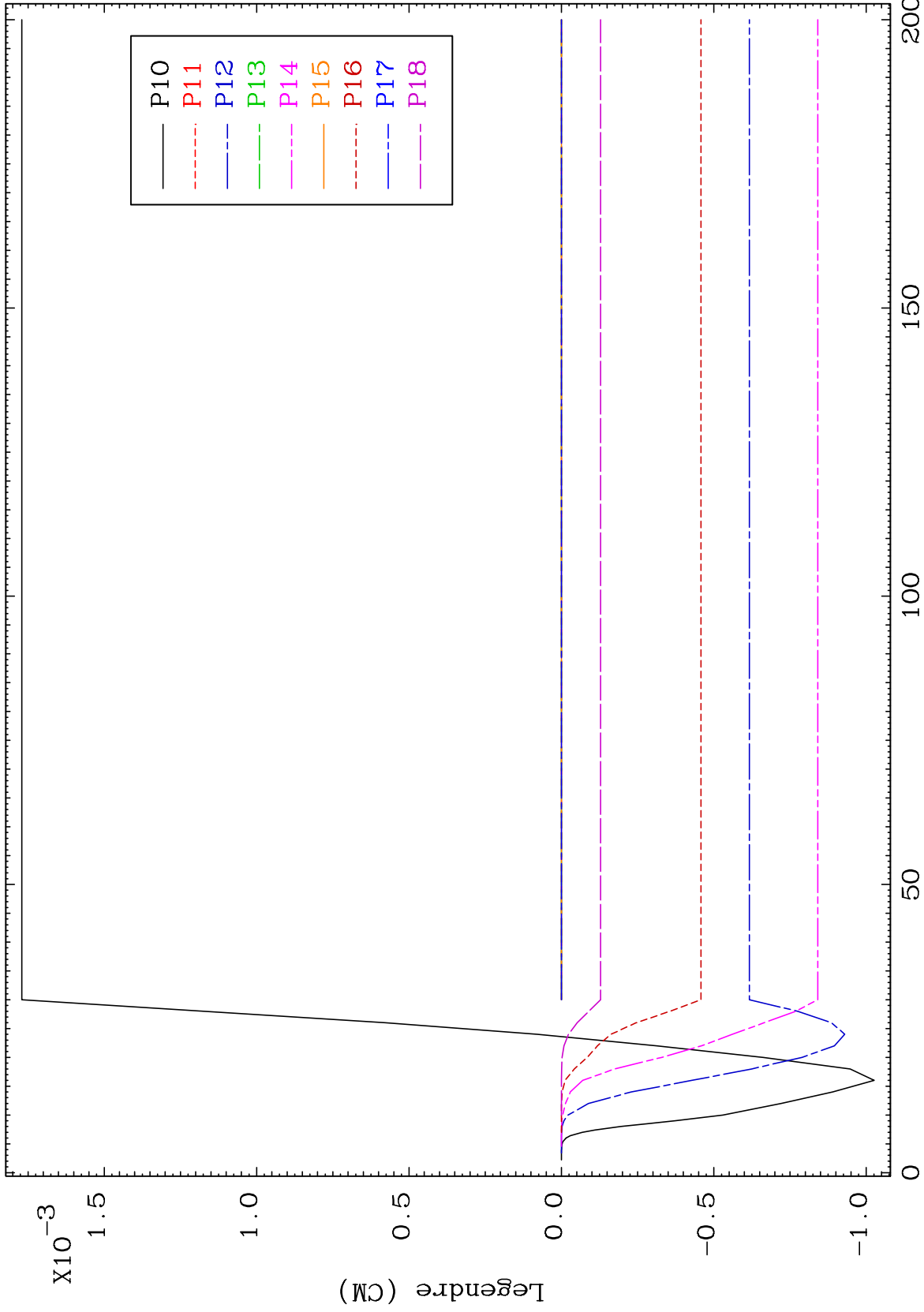




MAT 5828

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

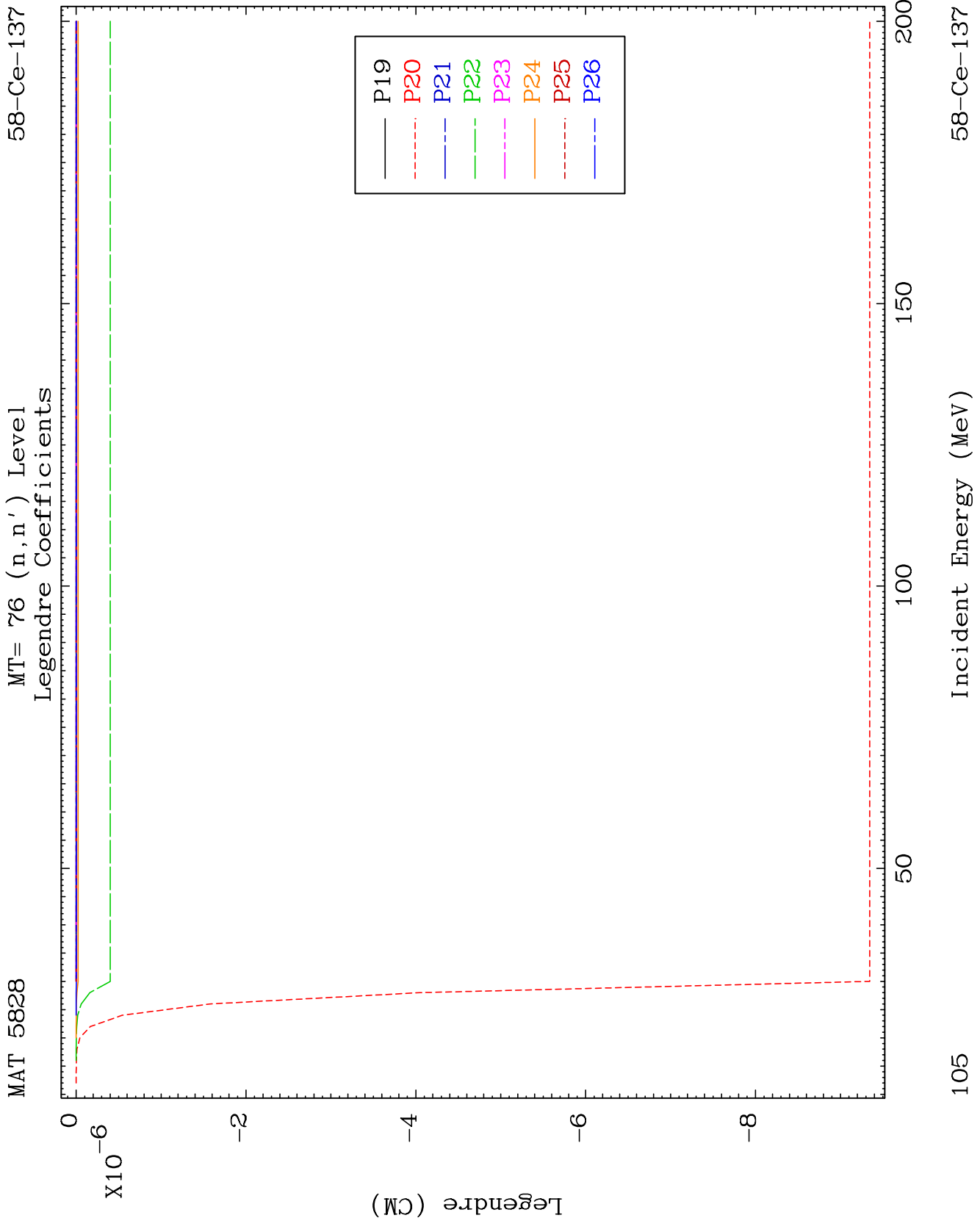
58-Ce-137



104

Incident Energy (MeV)

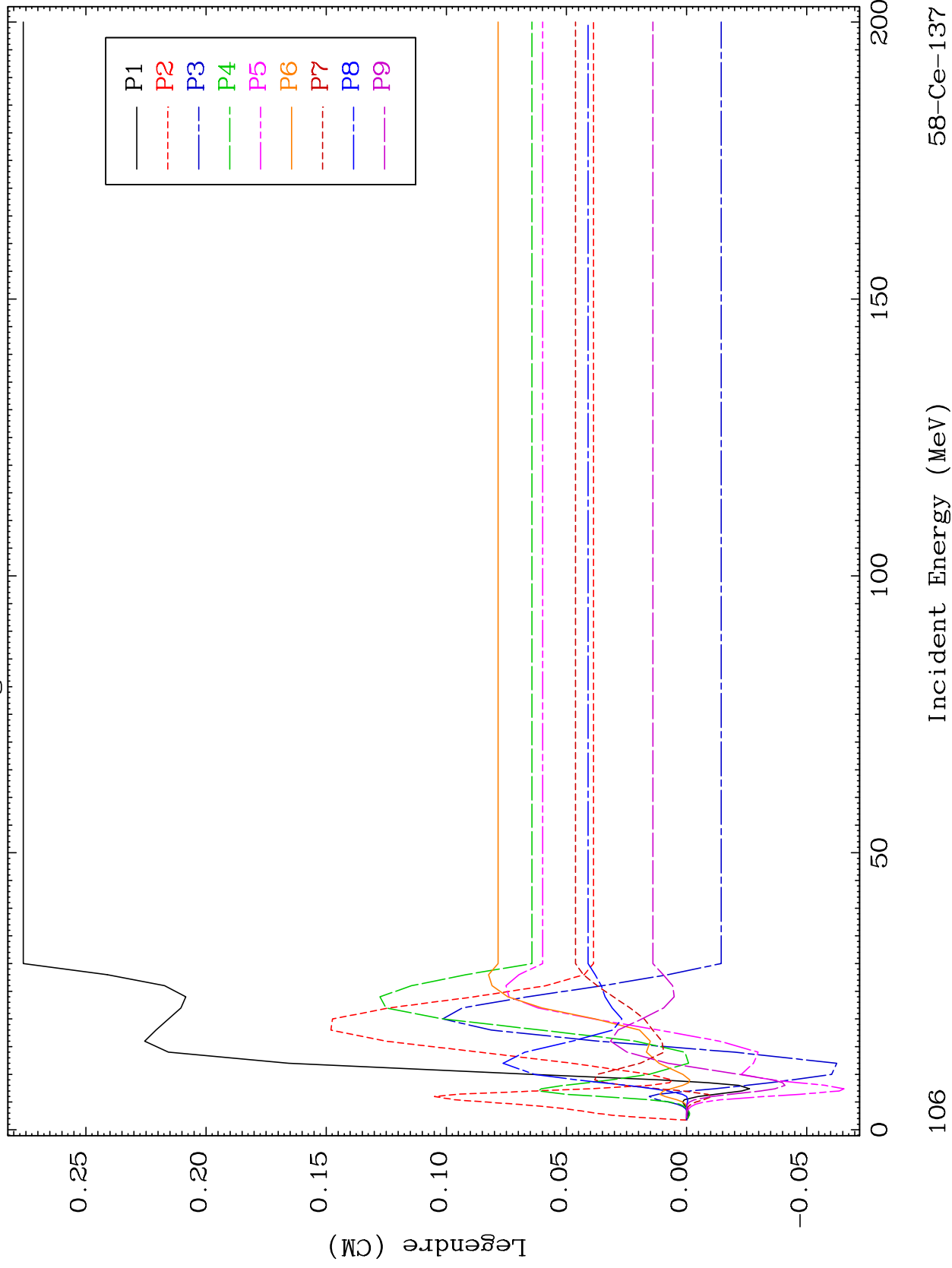
58-Ce-137



MAT 5828

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

58-Ce-137



58-Ce-137

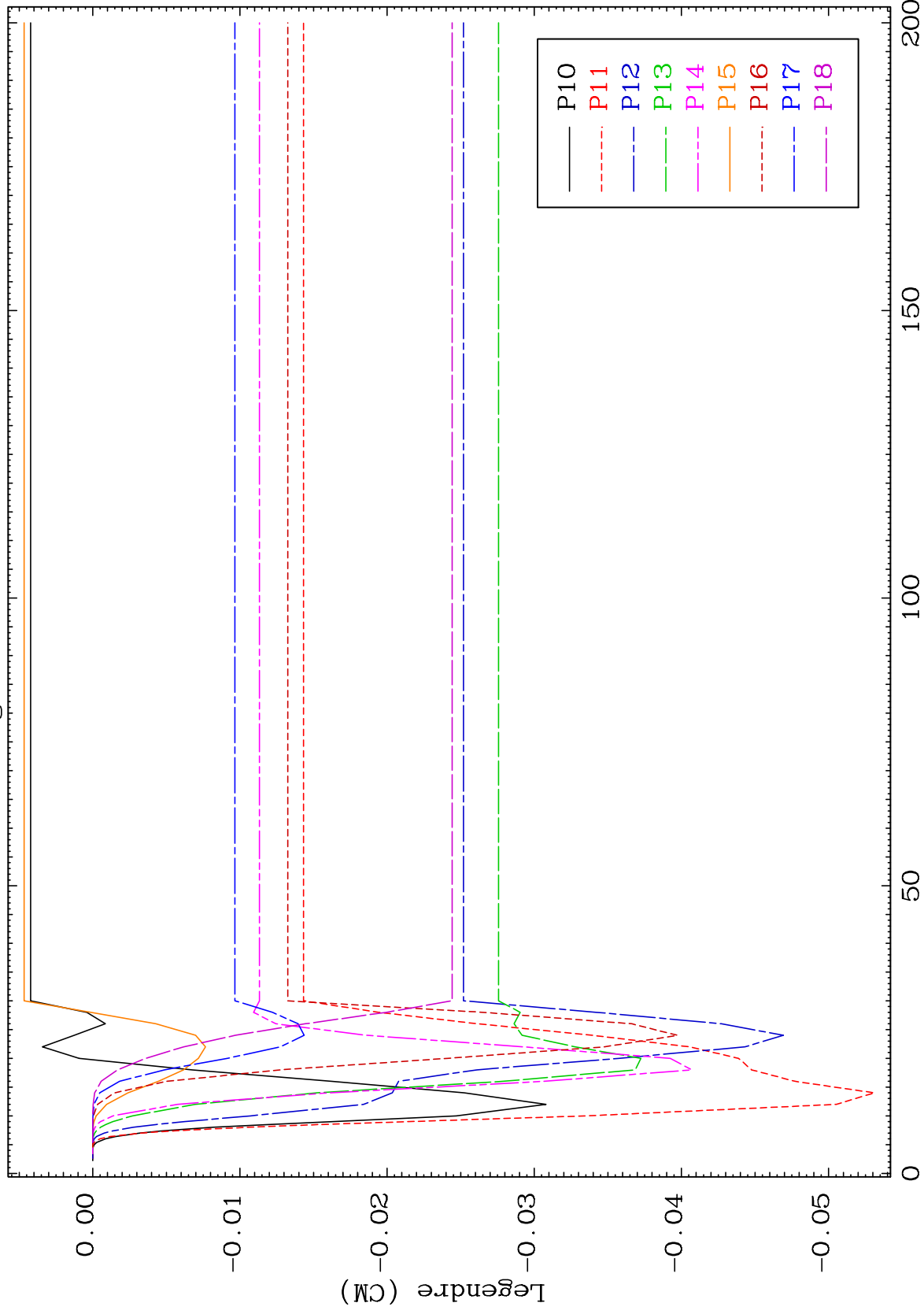
Incident Energy (MeV)

106

MAT 5828

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

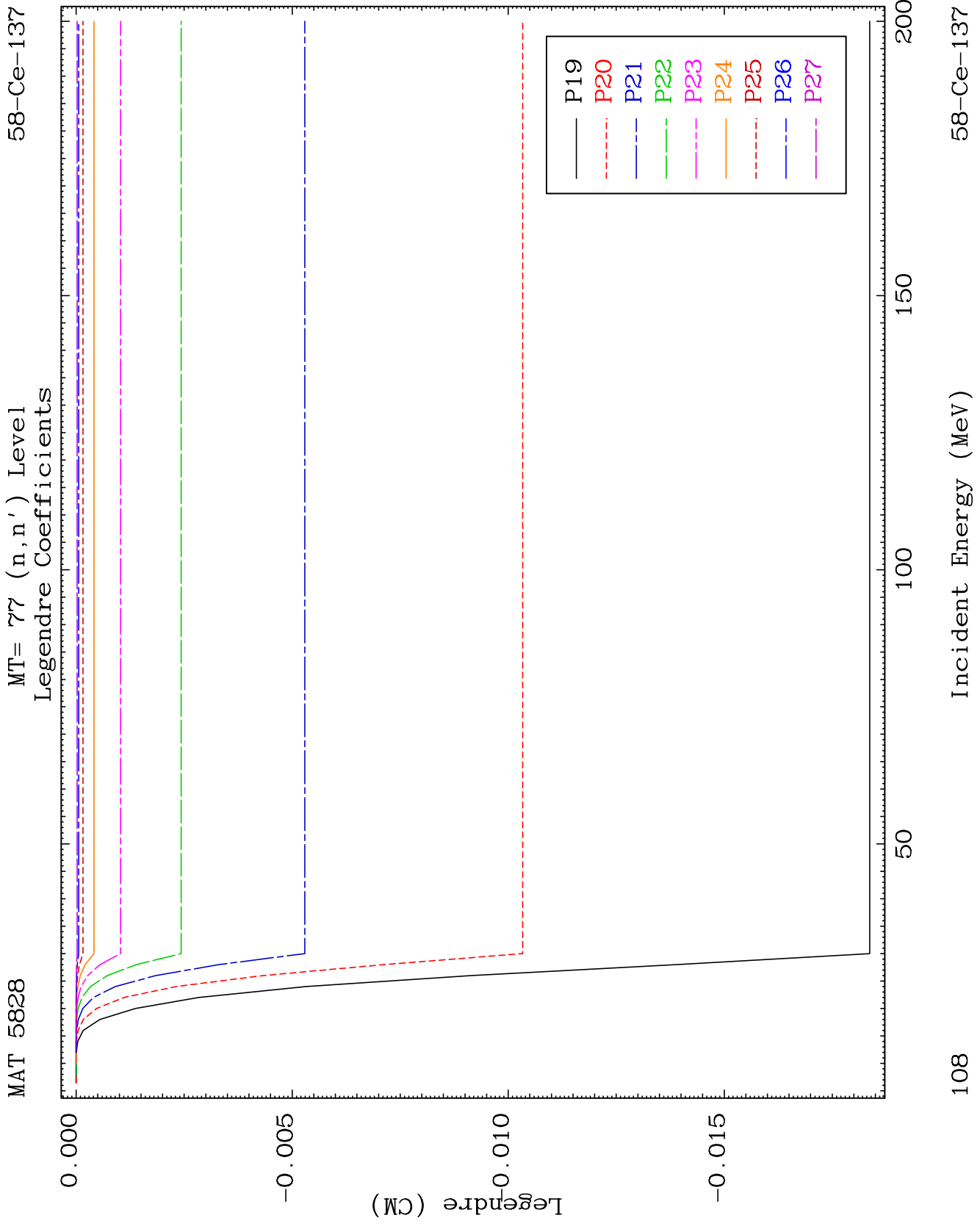
58-Ce-137

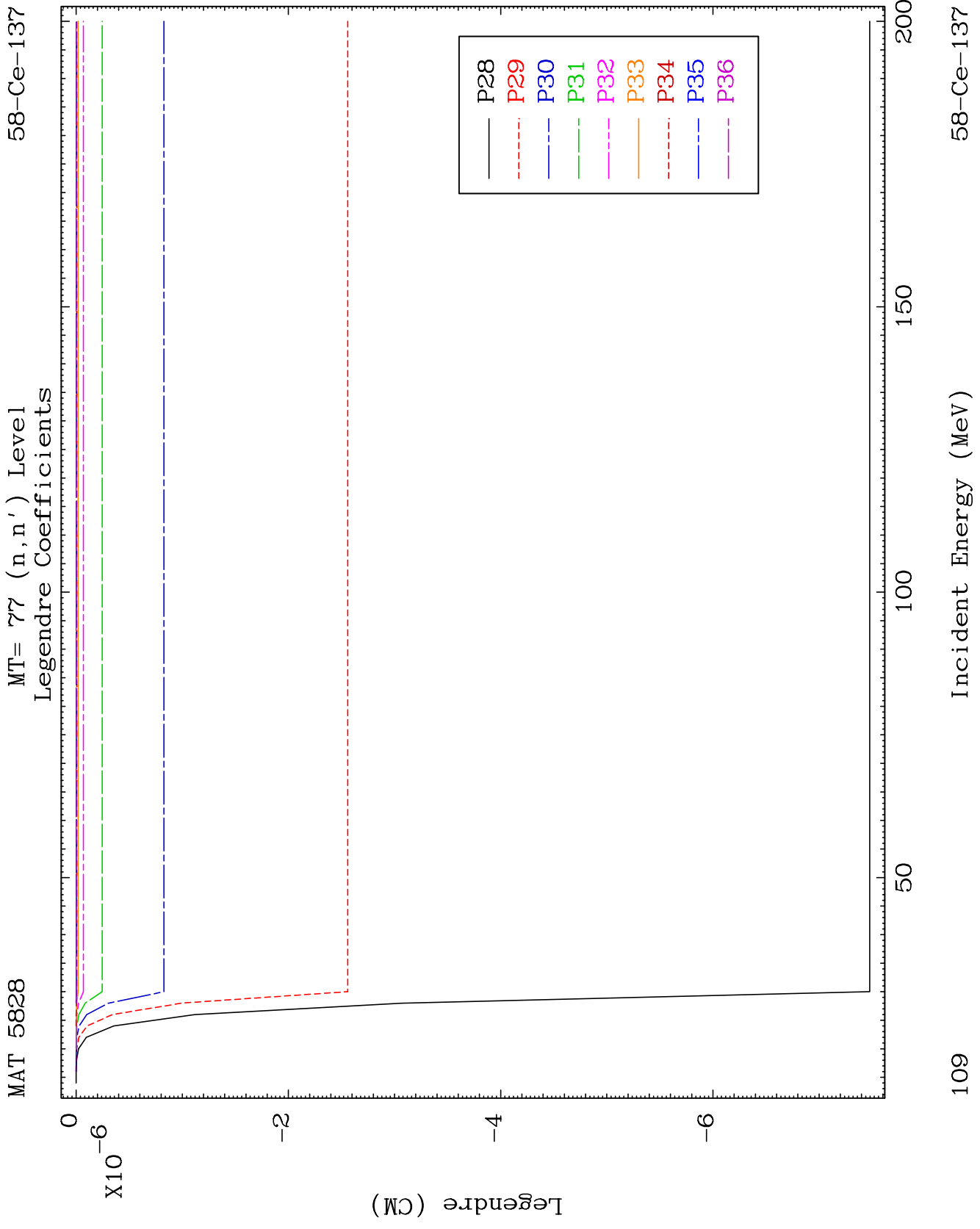


107

Incident Energy (MeV)

58-Ce-137

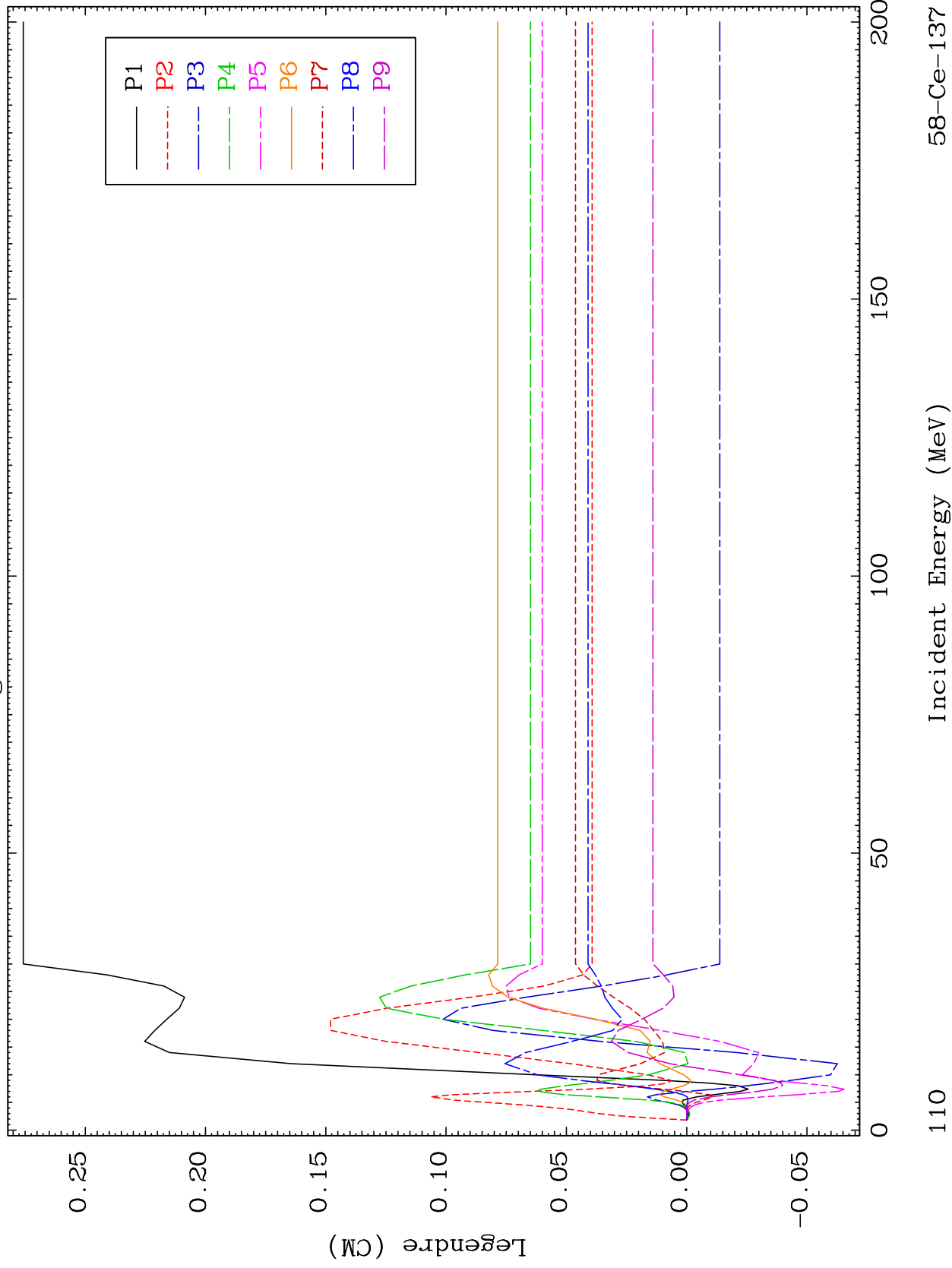




MAT 5828

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

58-Ce-137



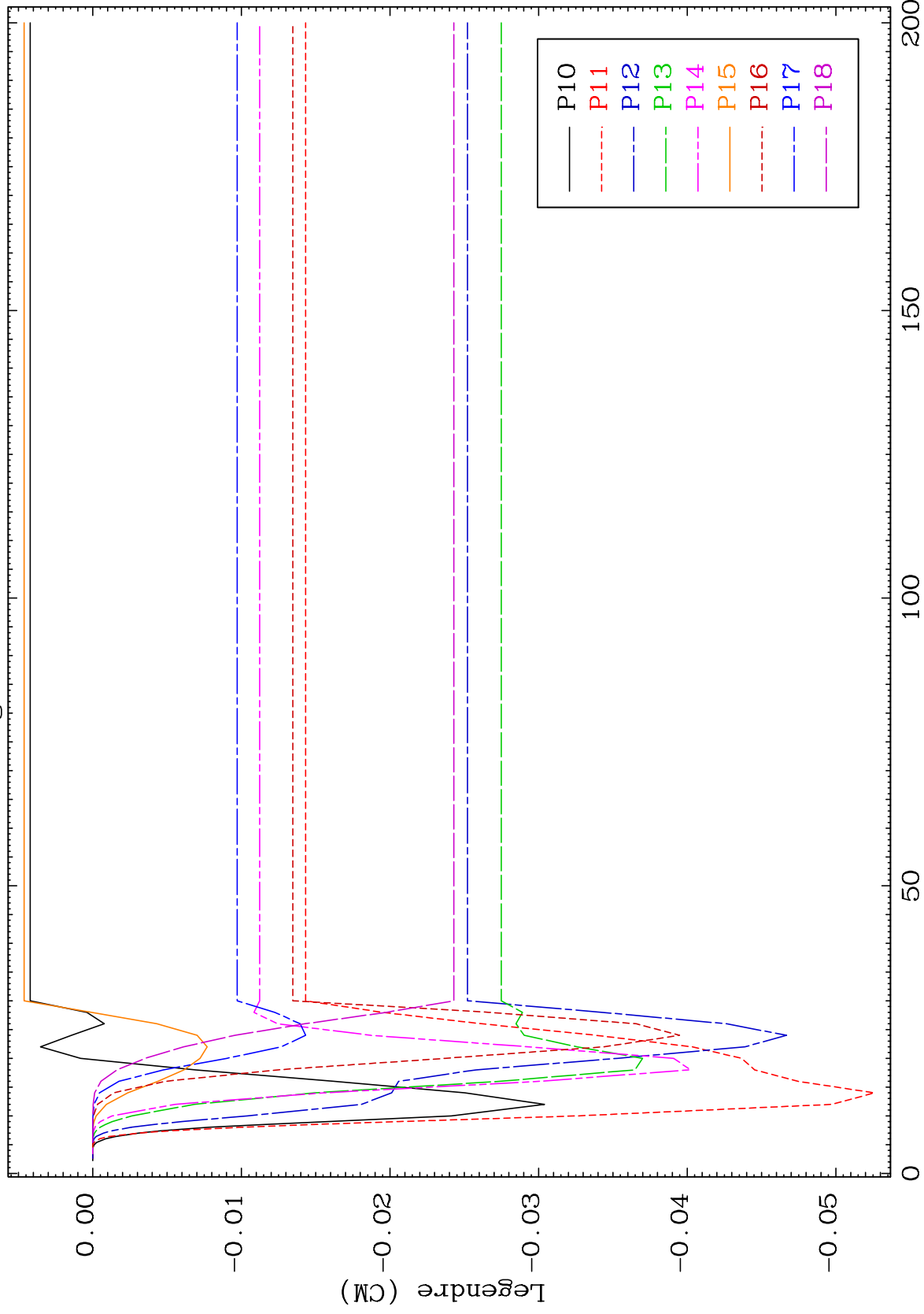
58-Ce-137

Incident Energy (MeV)

MAT 5828

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

58-Ce-137



111

Incident Energy (MeV)

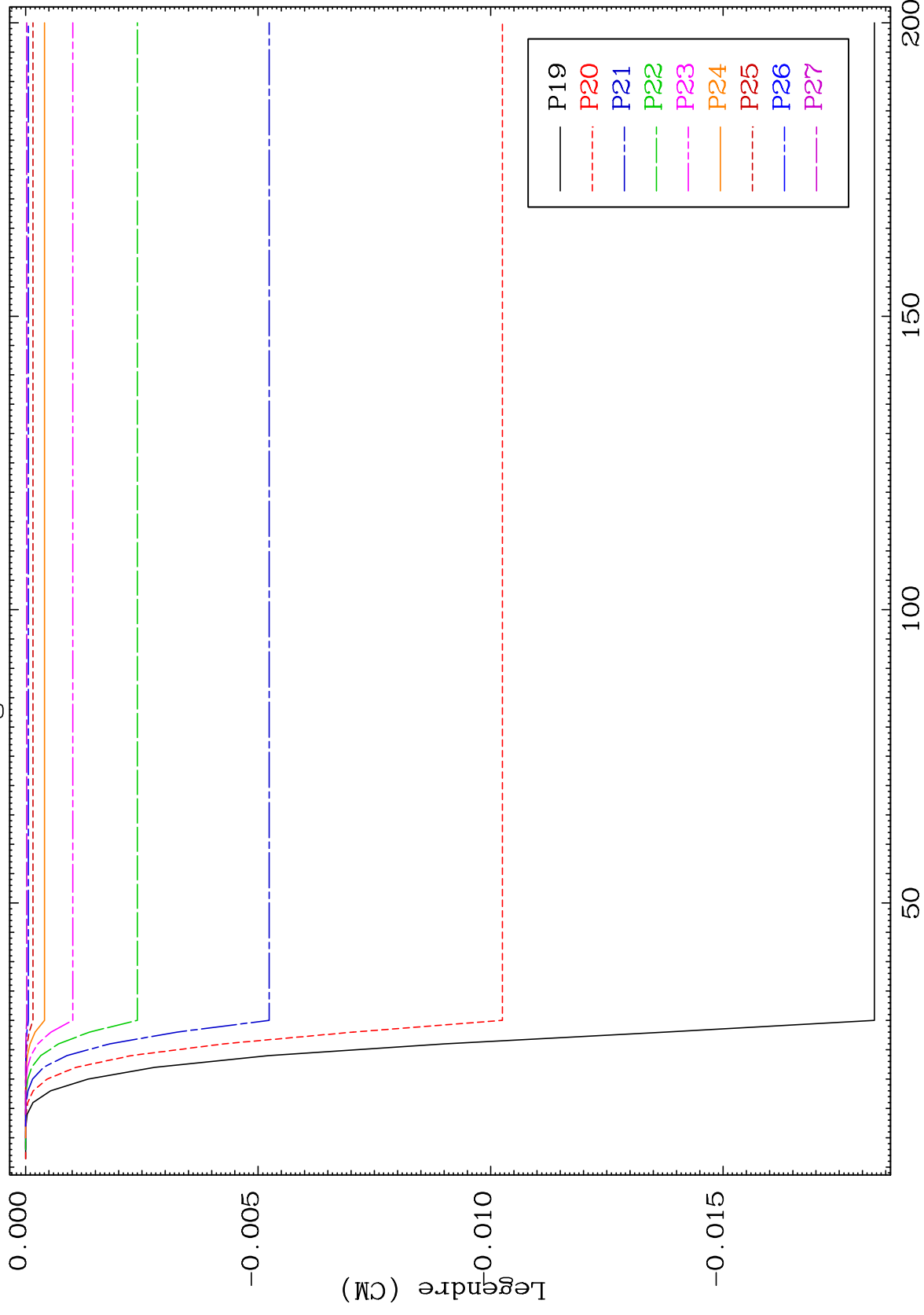
58-Ce-137



MAT 5828

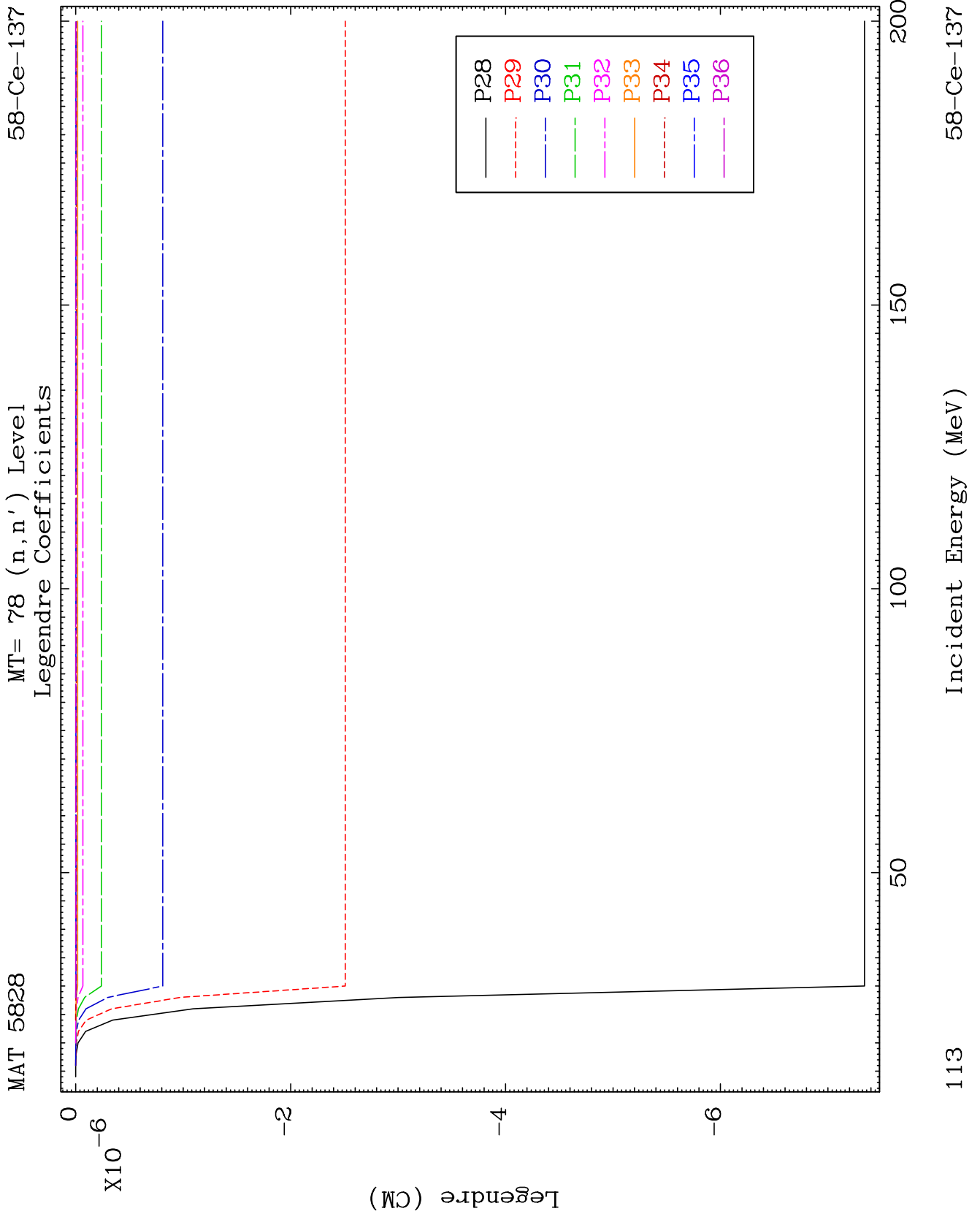
MT= 78 (n,n') Level  
Legendre Coefficients

58-Ce-137



112

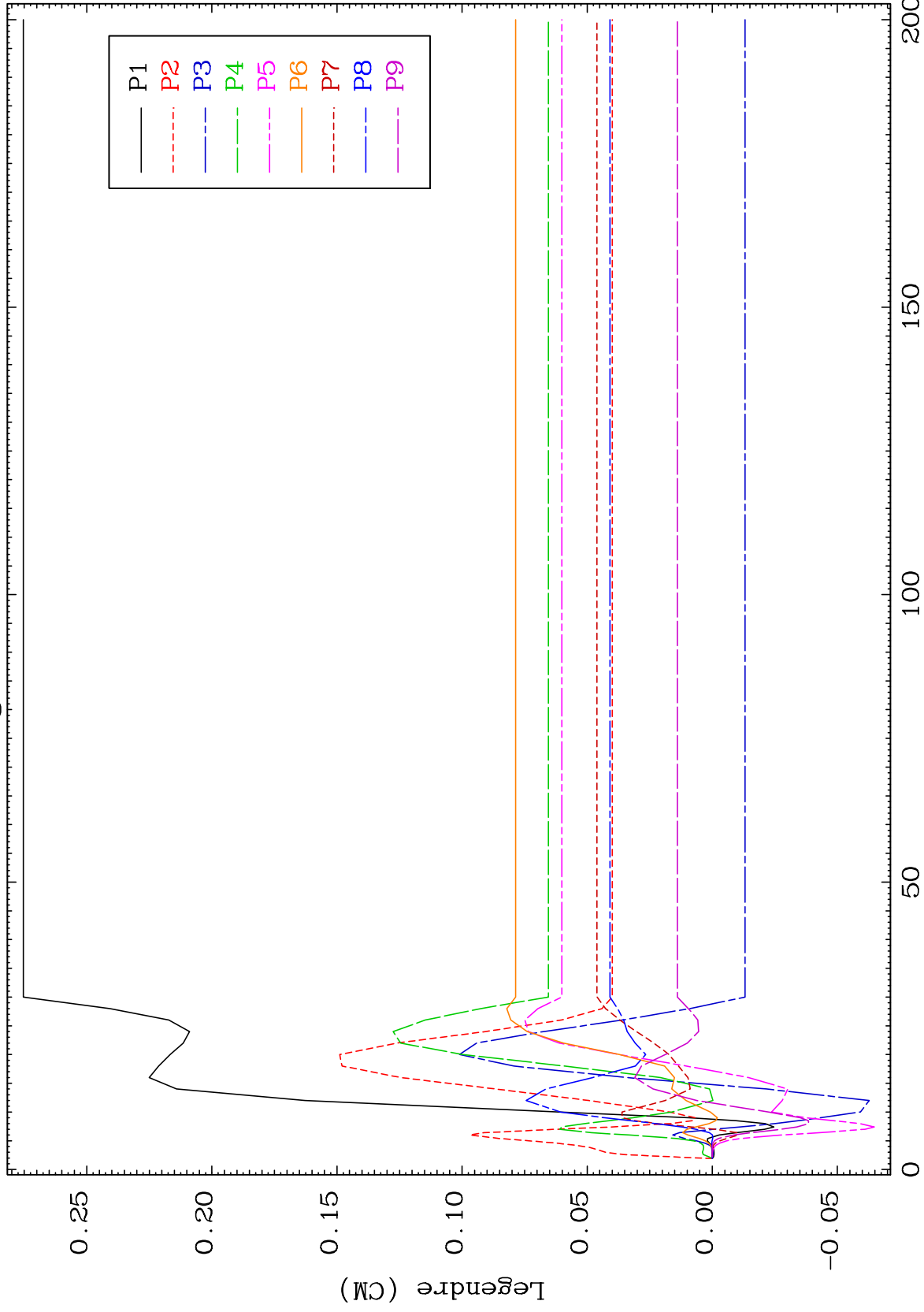
58-Ce-137



MAT 5828

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

58-Ce-137



114

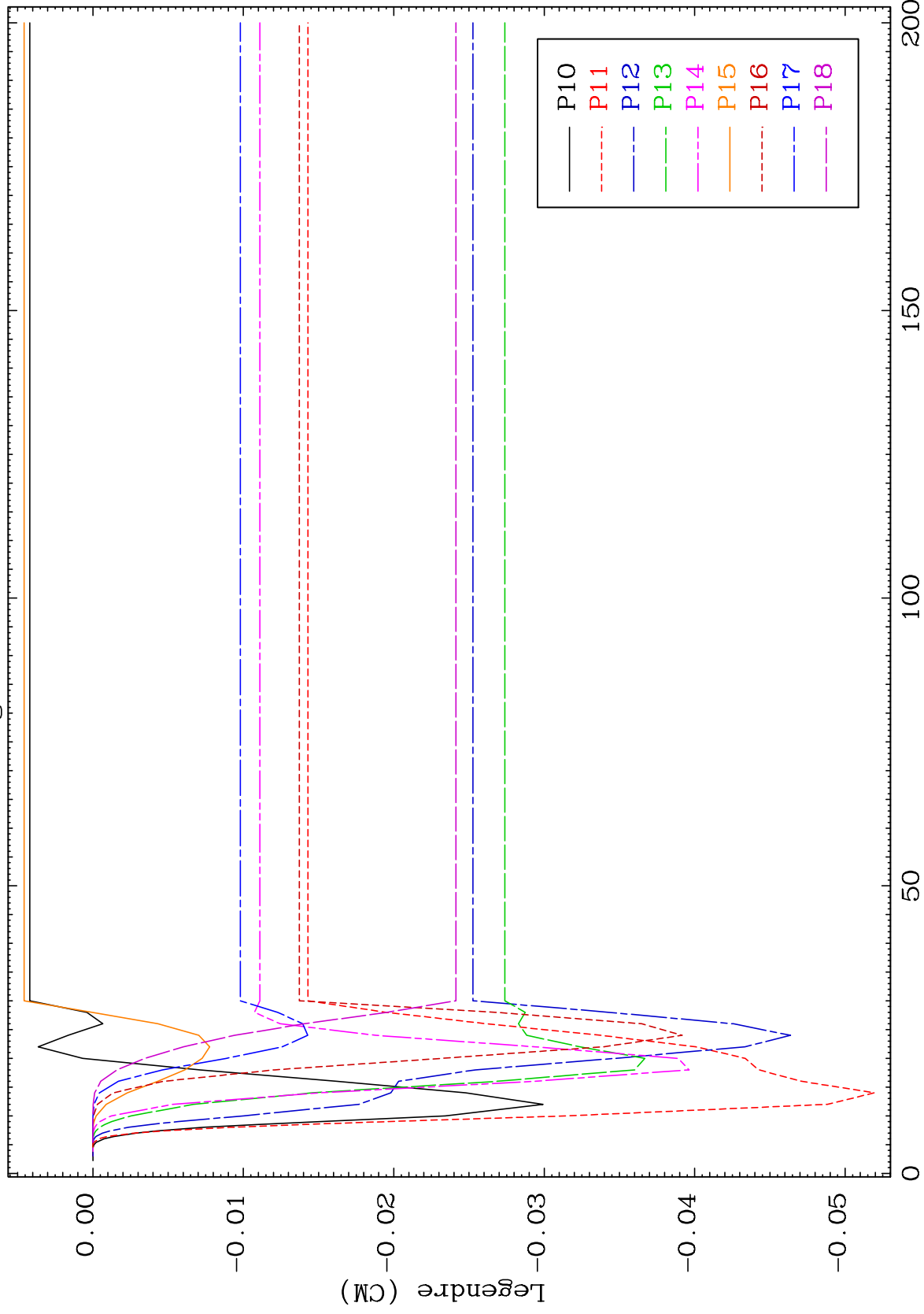
Incident Energy (MeV)

58-Ce-137

MAT 5828

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

58-Ce-137



0

50

100

150

200

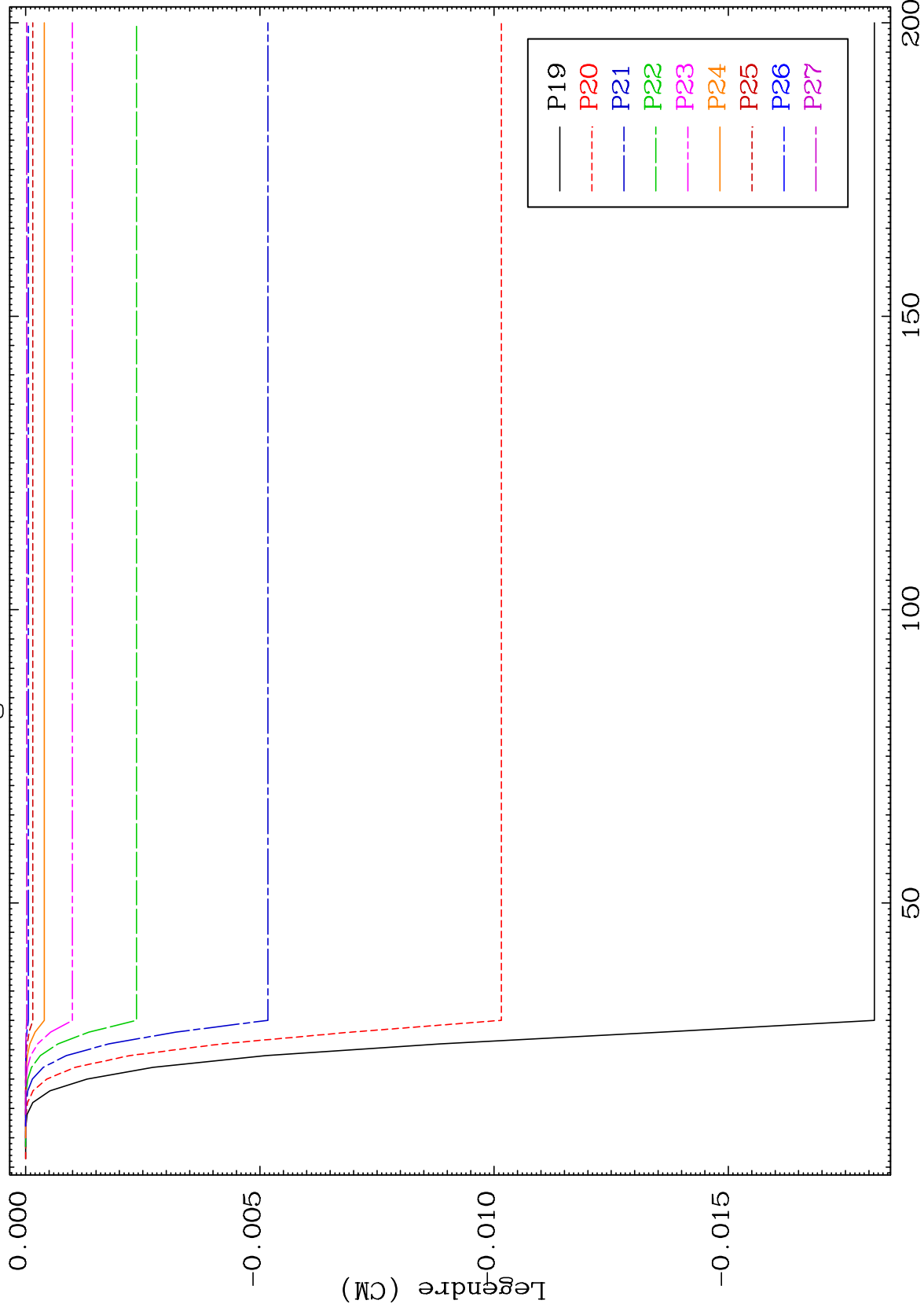
Incident Energy (MeV)

58-Ce-137

MAT 5828

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

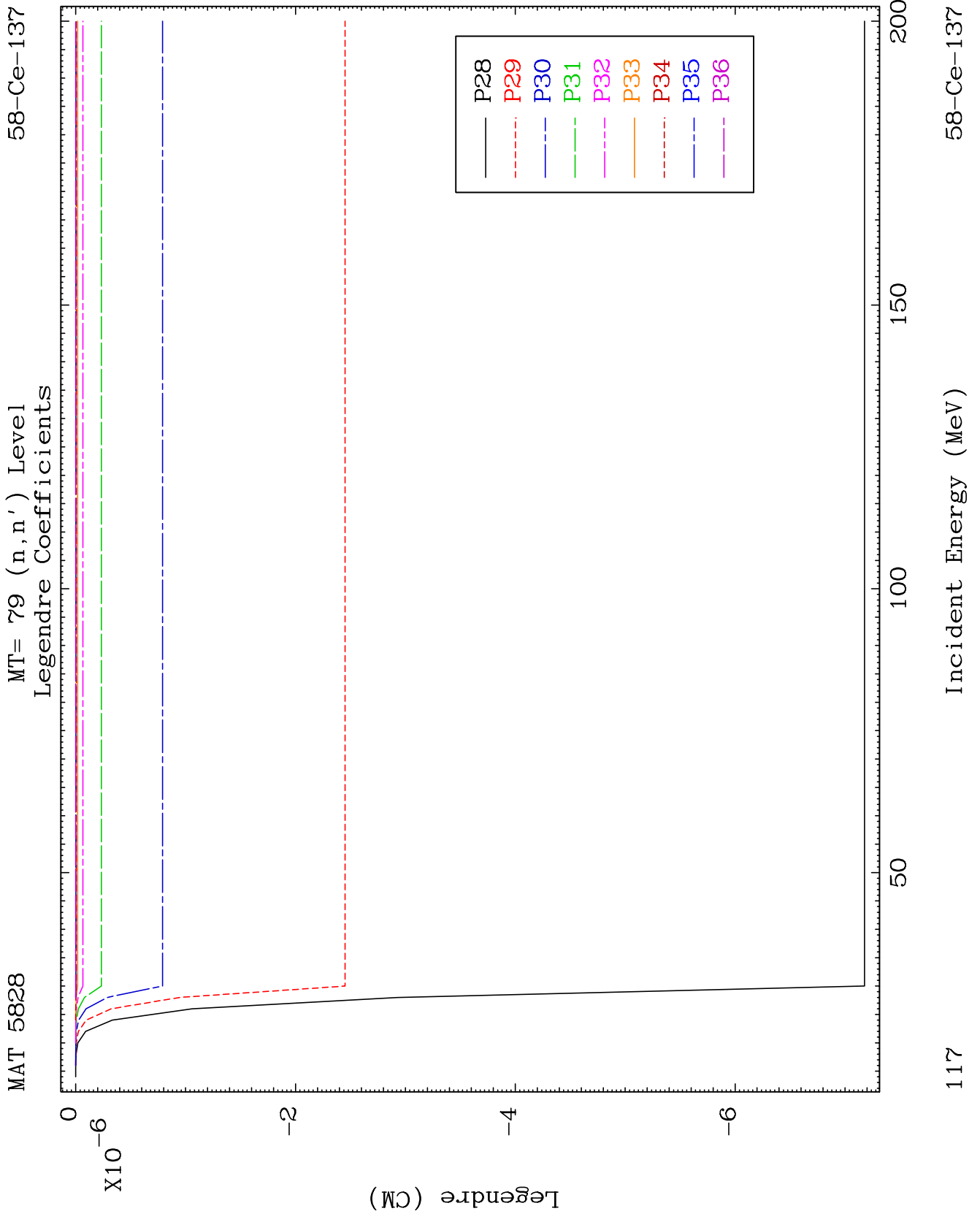
58-Ce-137



116

Incident Energy (MeV)

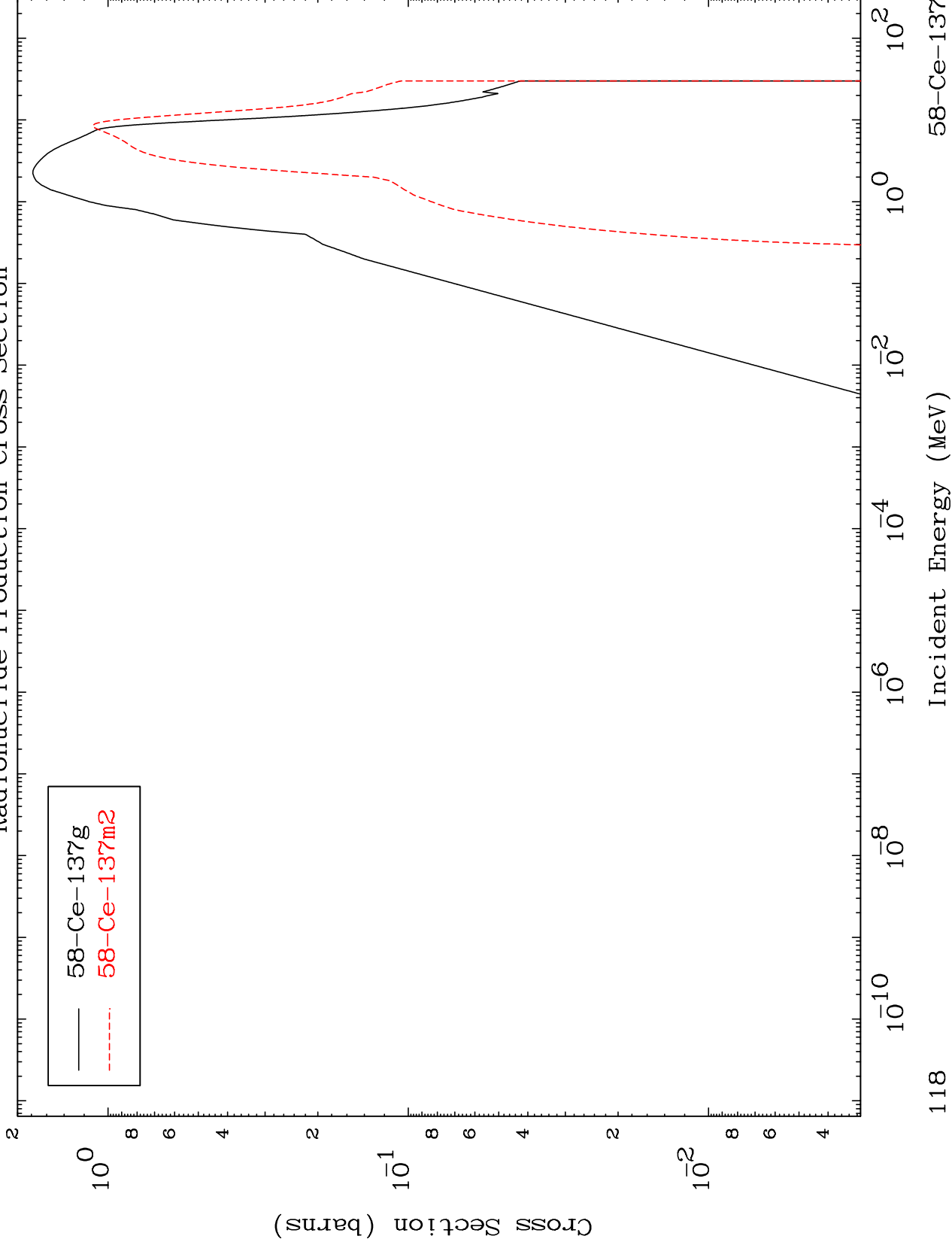
58-Ce-137



MAT 5828

Inelastic  
Radionuclide Production Cross Section

58-Ce-137



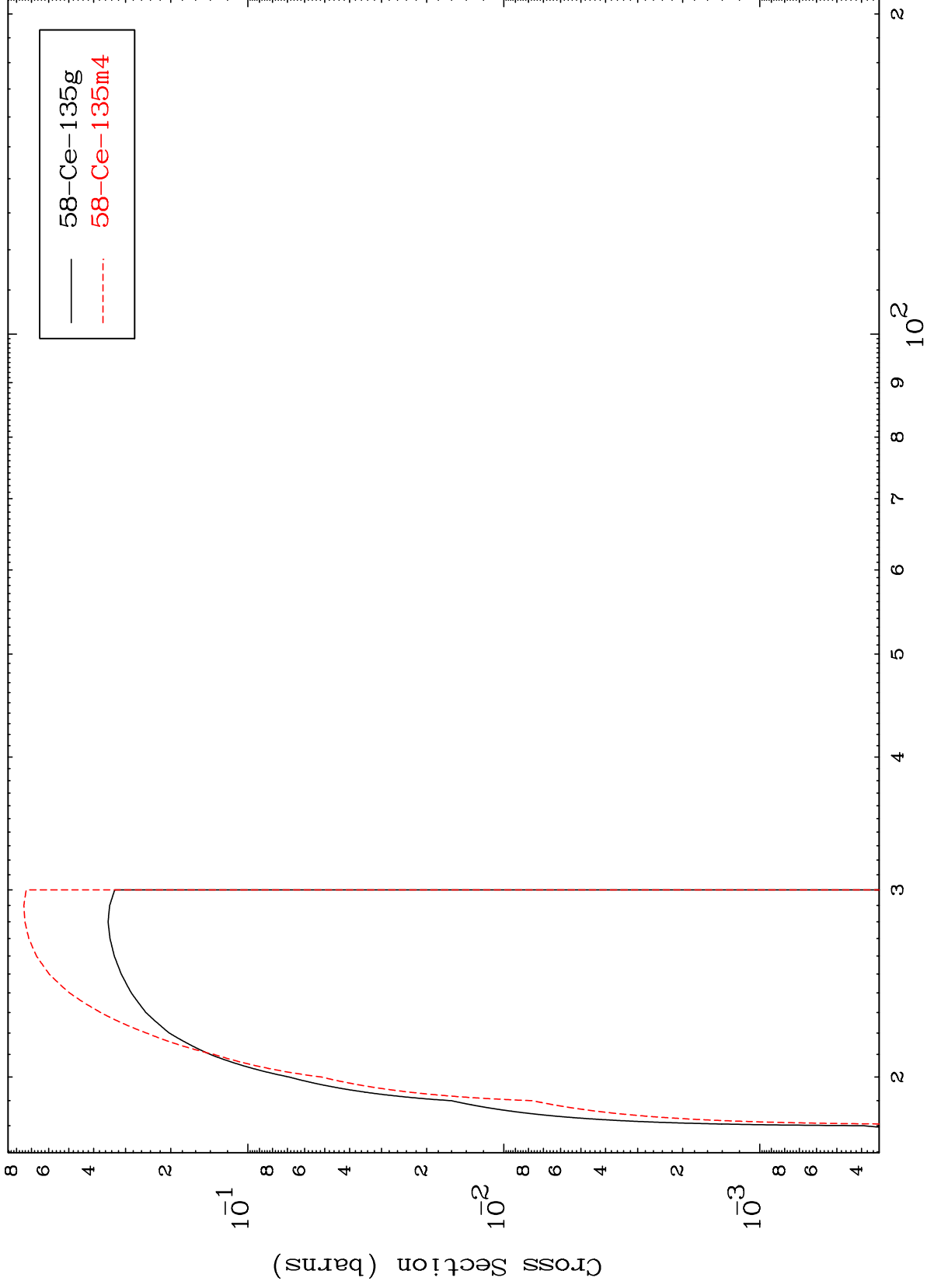
58-Ce-137

MAT 5828

(n,3n)

58-Ce-137

Radionuclide Production Cross Section



119

Incident Energy (MeV)

58-Ce-137

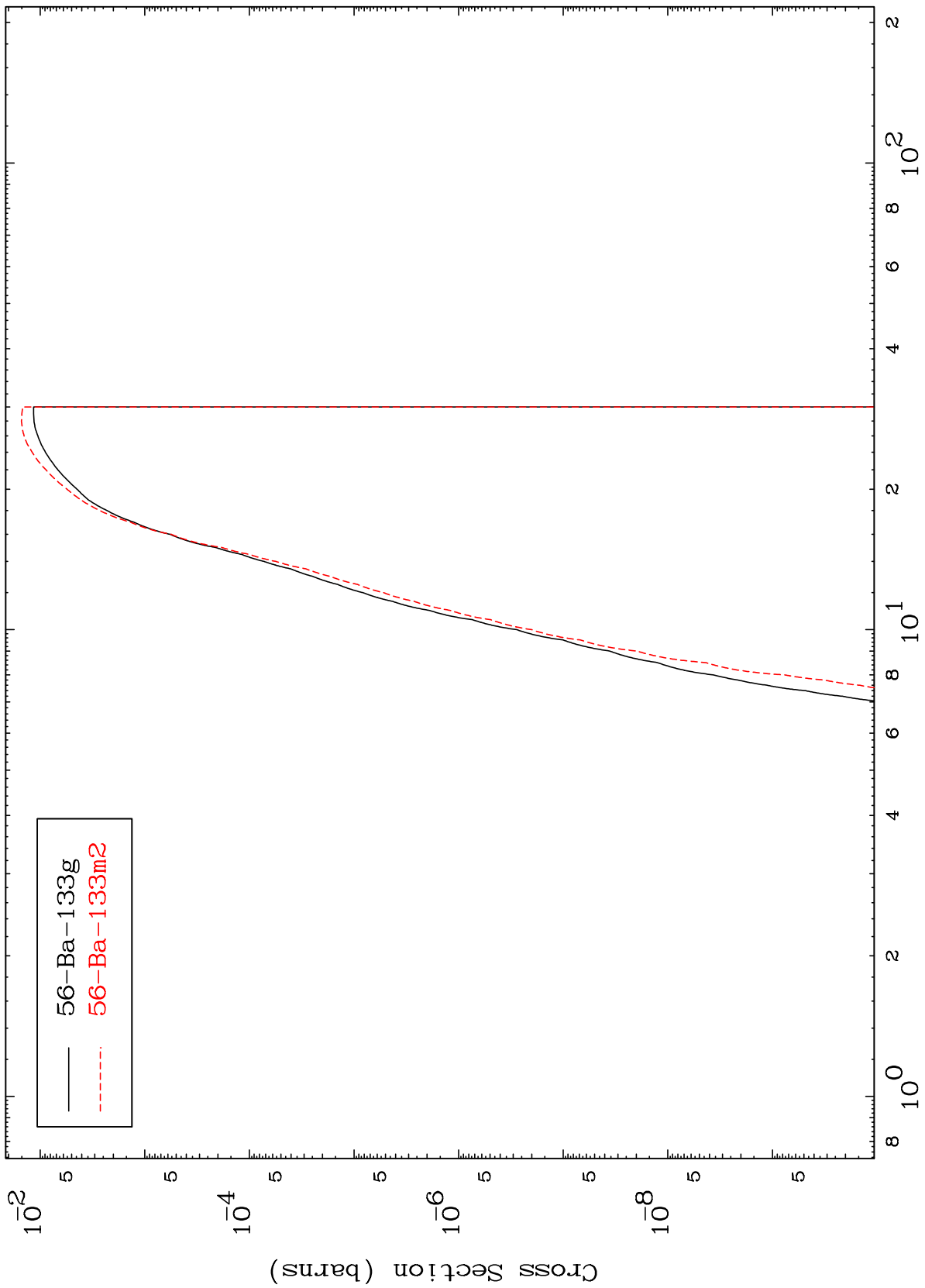


MAT 5828

(n,n')  $\alpha$

58-Ce-137

Radionuclide Production Cross Section



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

Incident Energy (MeV)

58-Ce-137

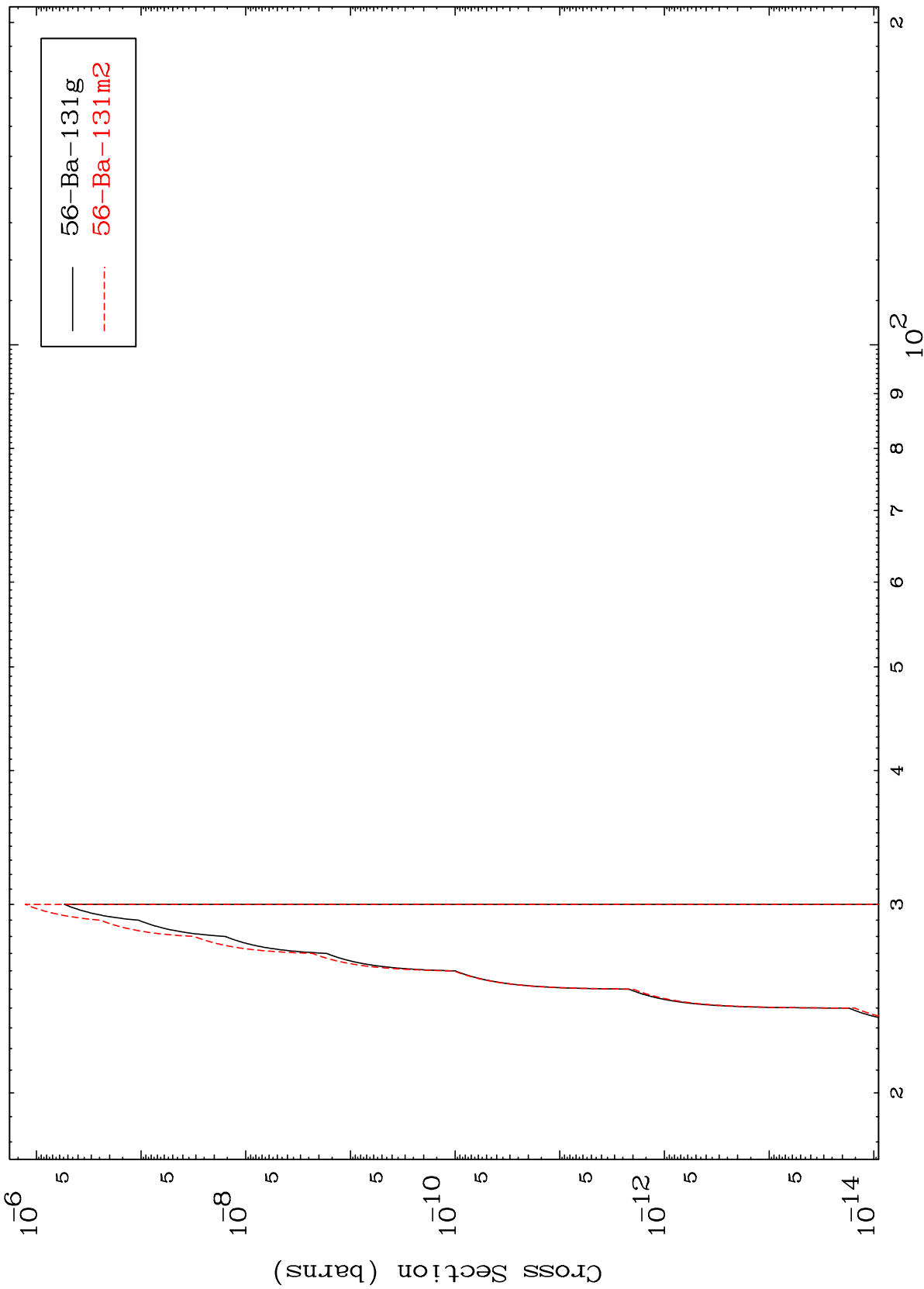
120

MAT 5828

(n,3n)  $\alpha$

58-Ce-137

Radionuclide Production Cross Section



121

Incident Energy (MeV)

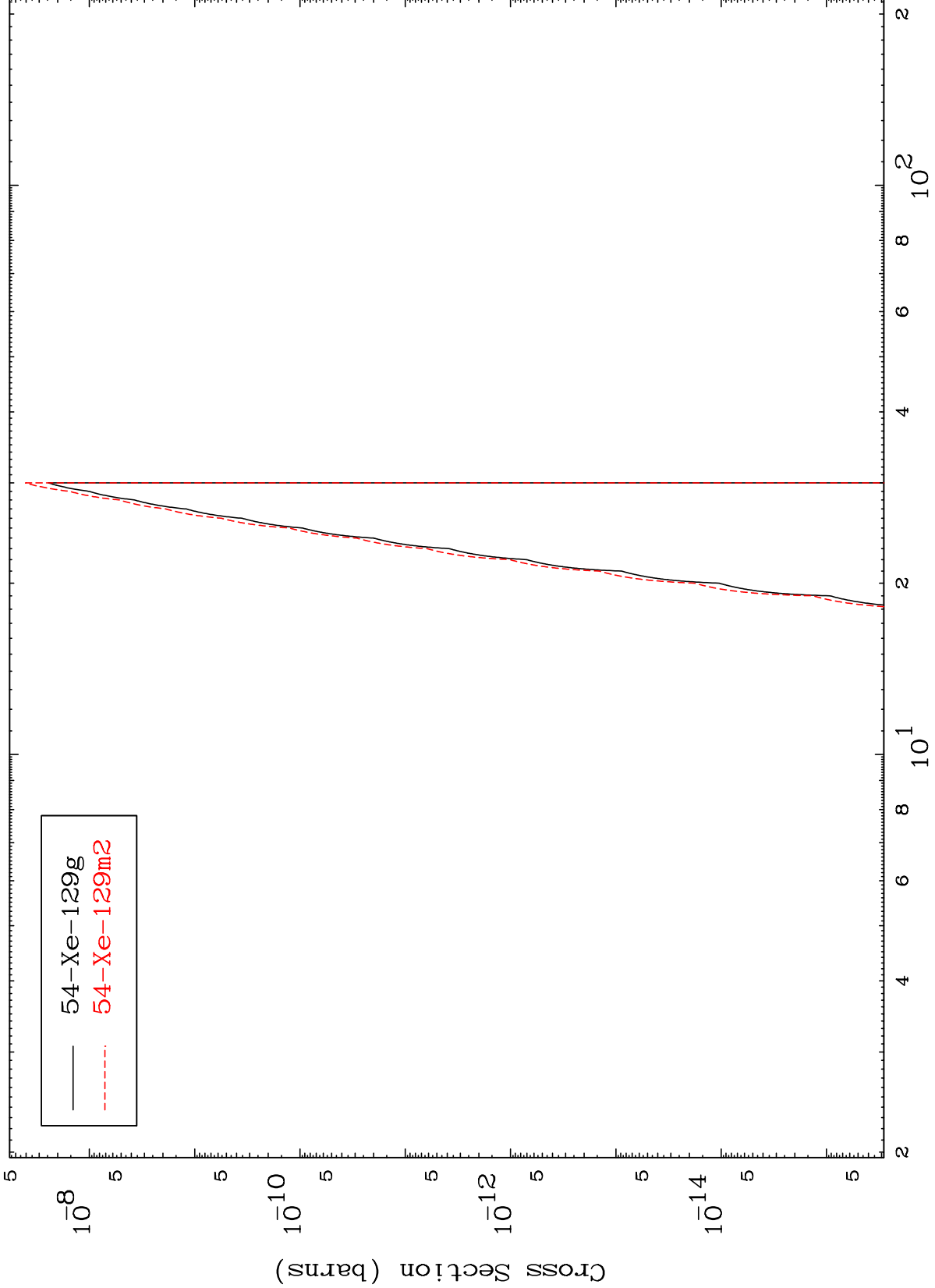
58-Ce-137

MAT 5828

(n,n') 2α

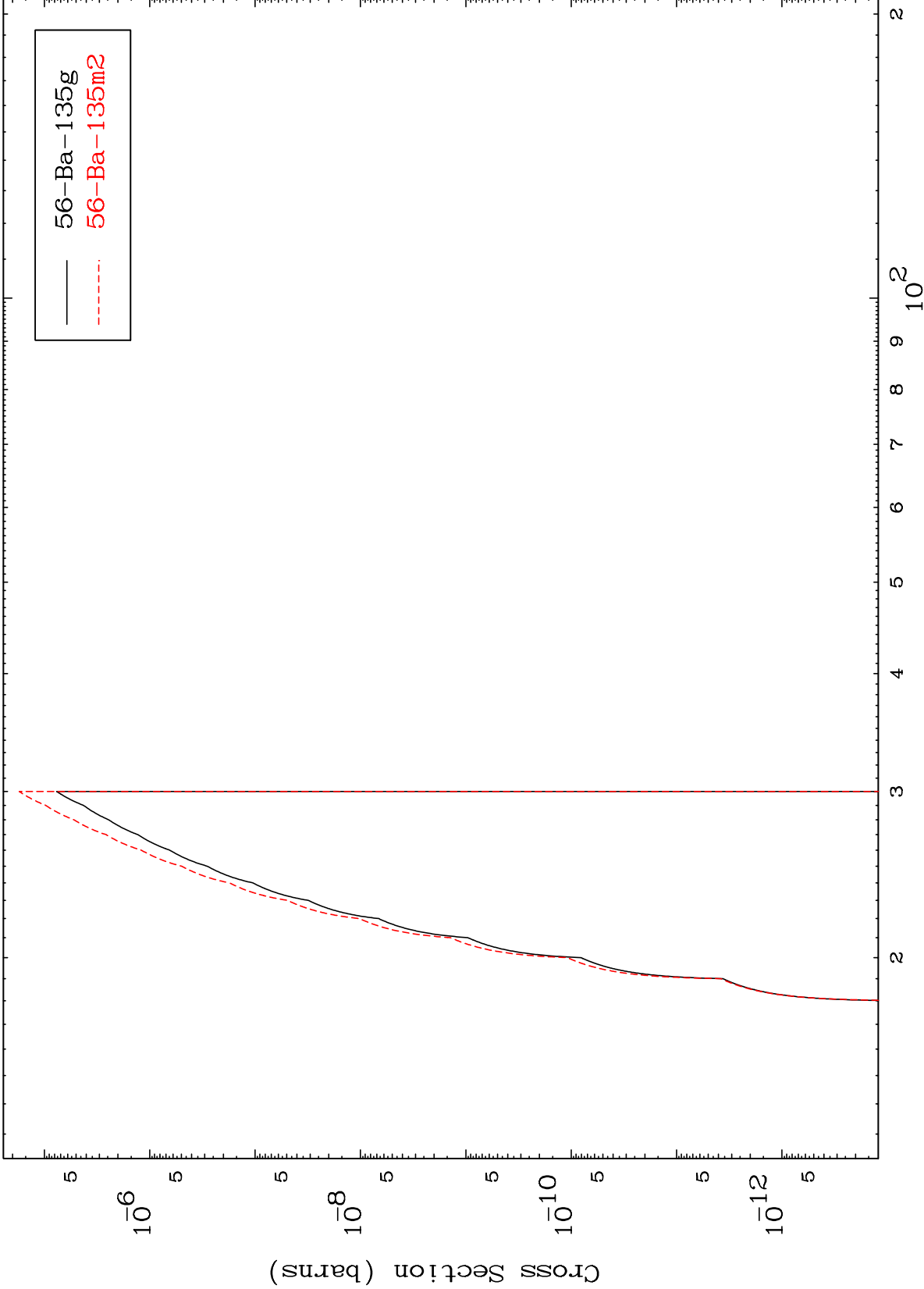
58-Ce-137

Radionuclide Production Cross Section



54-Xe-129g  
54-Xe-129m2

Radionuclide Production Cross Section



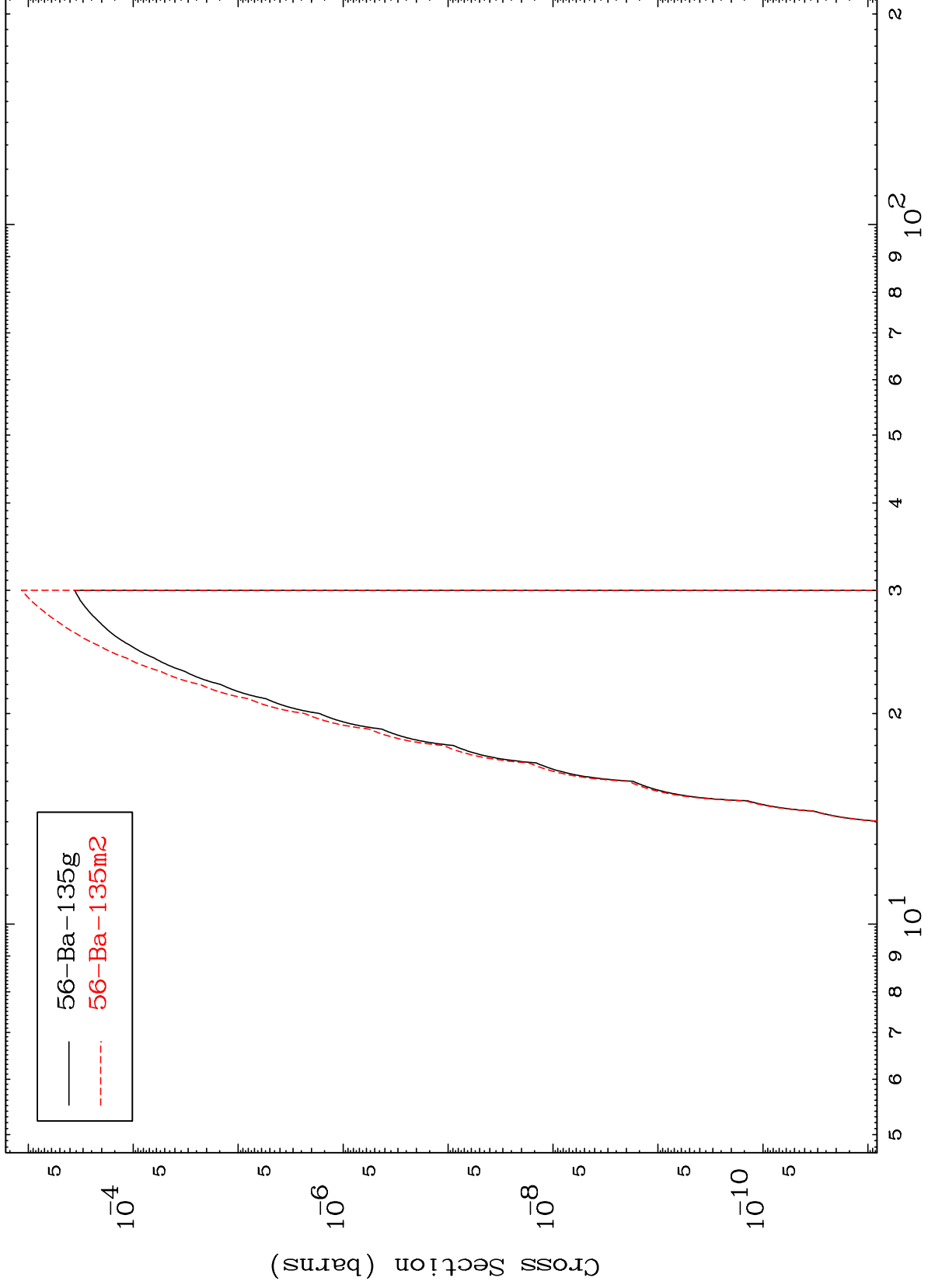
56-Ba-135g  
56-Ba-135m2

MAT 5828

(n,He-3)

58-Ce-137

Radionuclide Production Cross Section



124

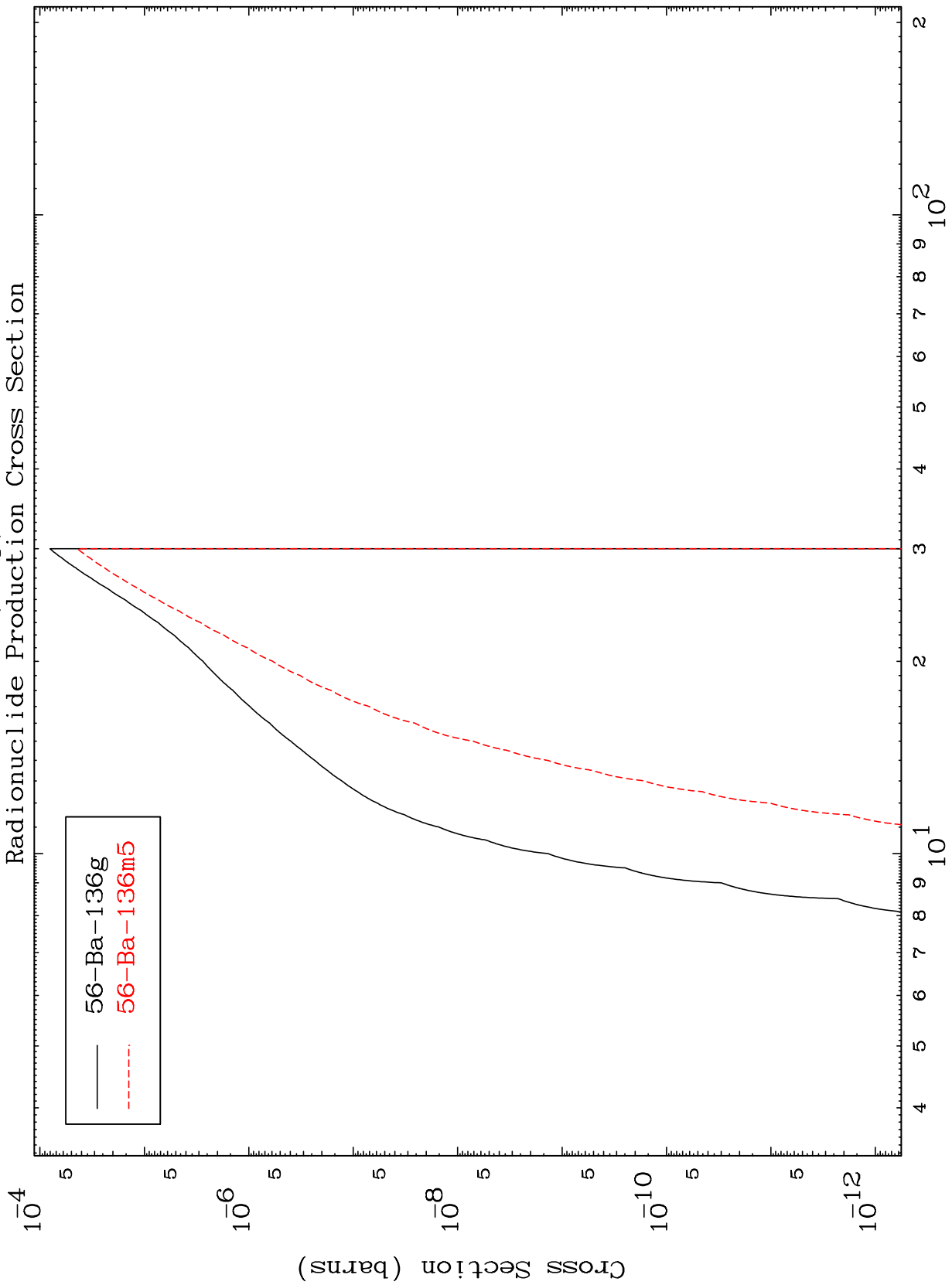
Incident Energy (MeV)

58-Ce-137

MAT 5828

58-Ce-137

(n,2p)  
Radionuclide Production Cross Section



56-Ba-136g  
56-Ba-136m5

58-Ce-137

Incident Energy (MeV)

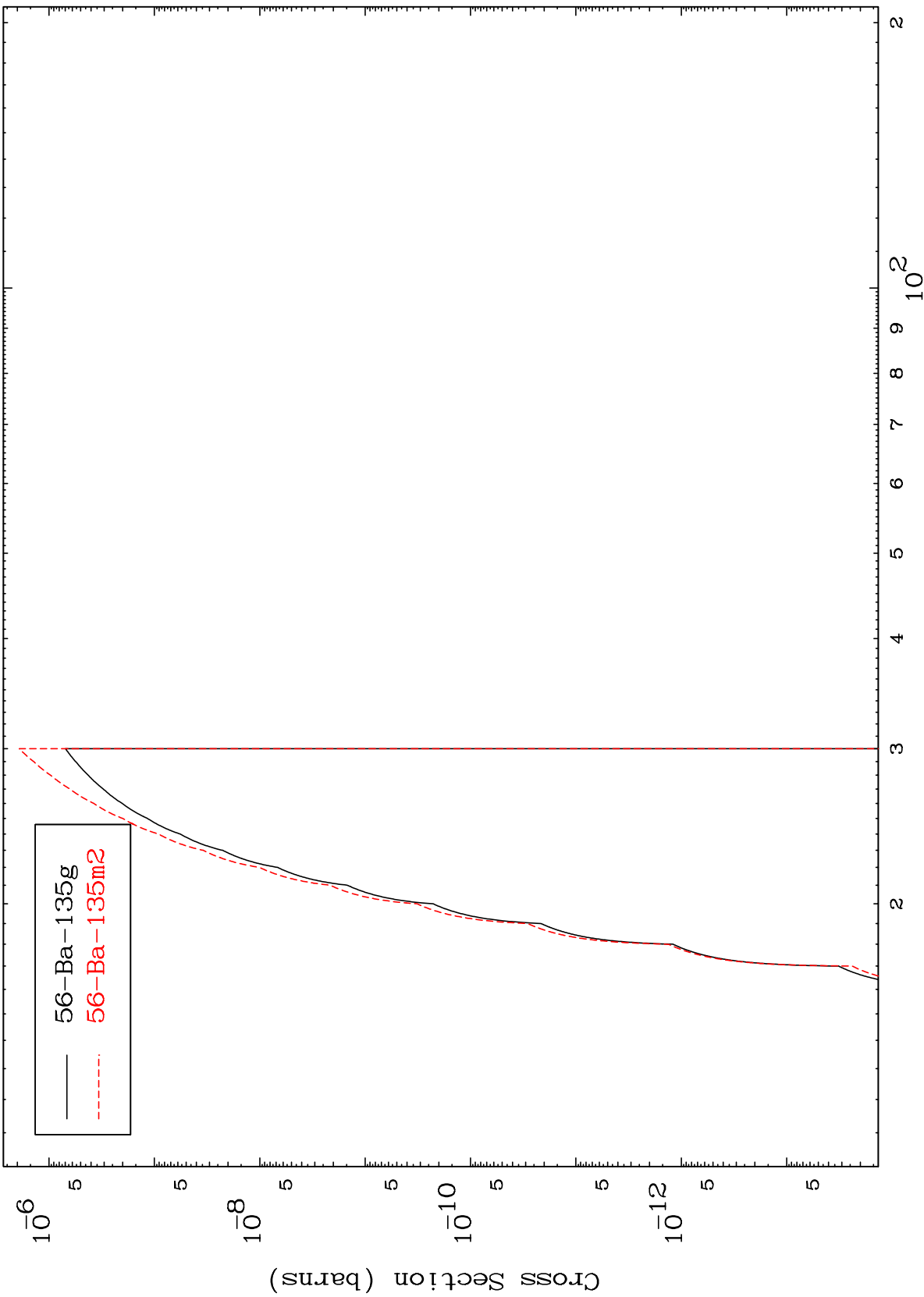
125

MAT 5828

(n,p) d

58-Ce-137

Radionuclide Production Cross Section



126

Incident Energy (MeV)

58-Ce-137