

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

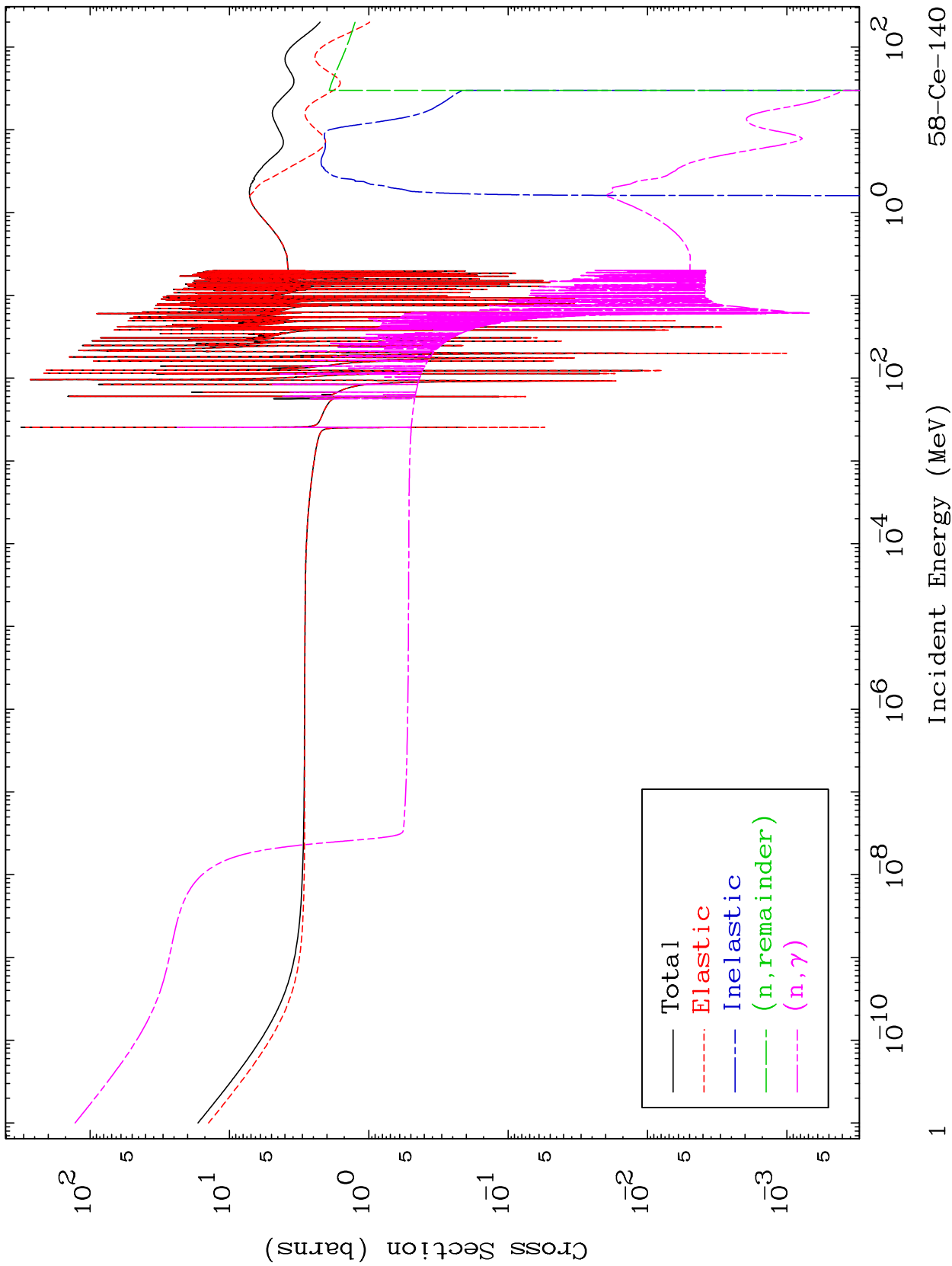
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5837

Major  
293 Kelvin Cross Sections

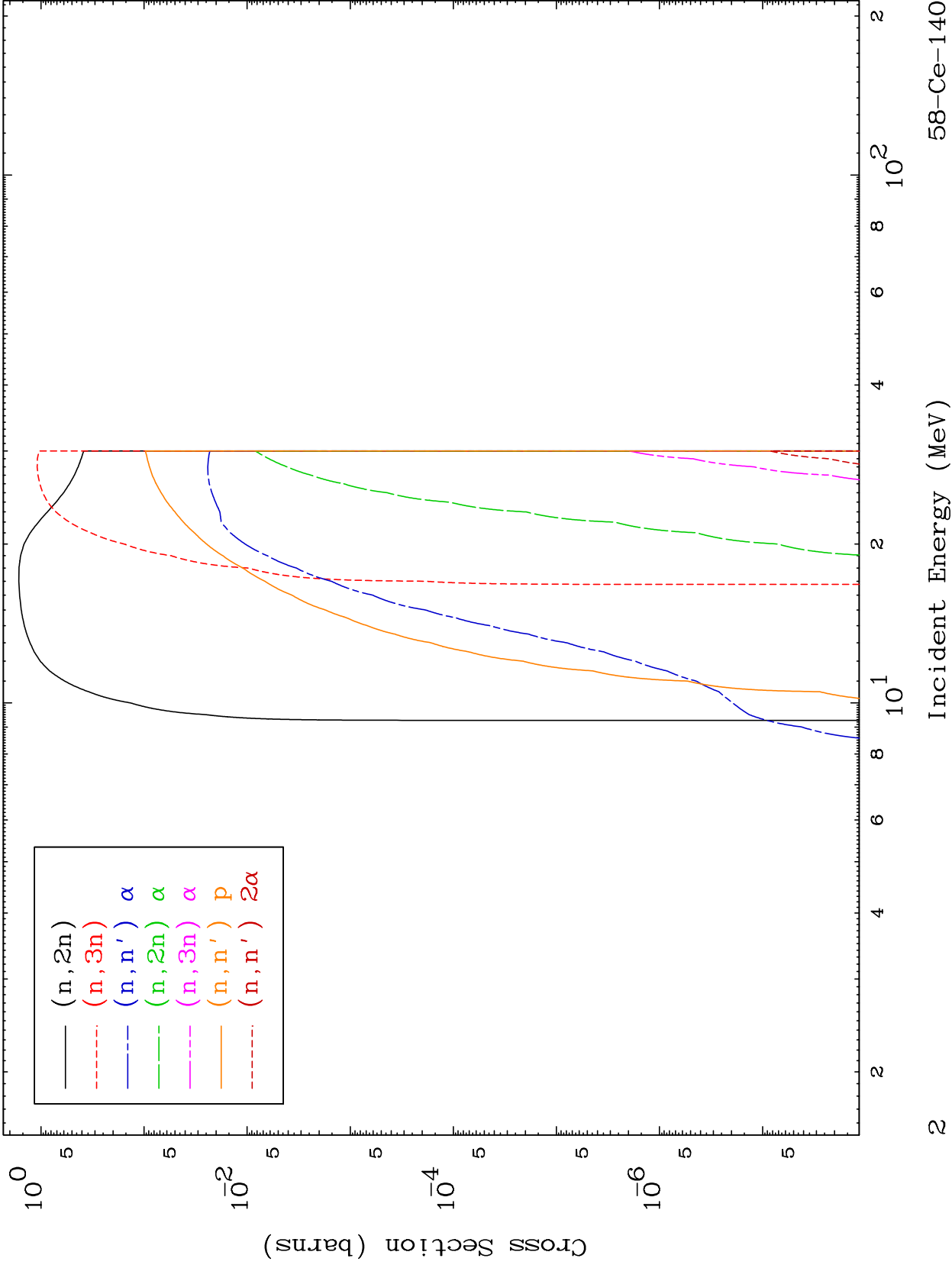
58-Ce-140

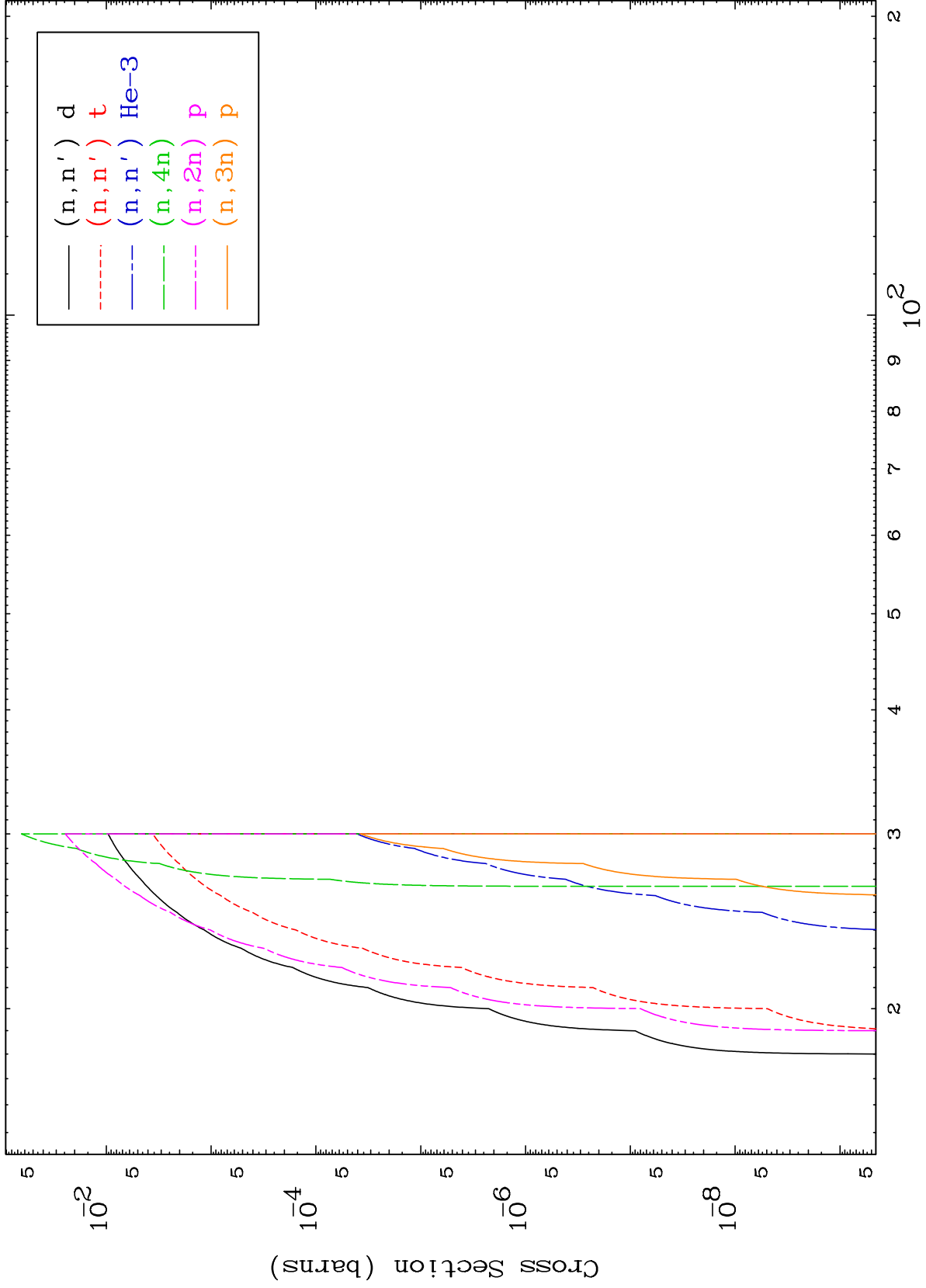


MAT 5837

Neutron Production  
293 Kelvin Cross Sections

58-Ce-140

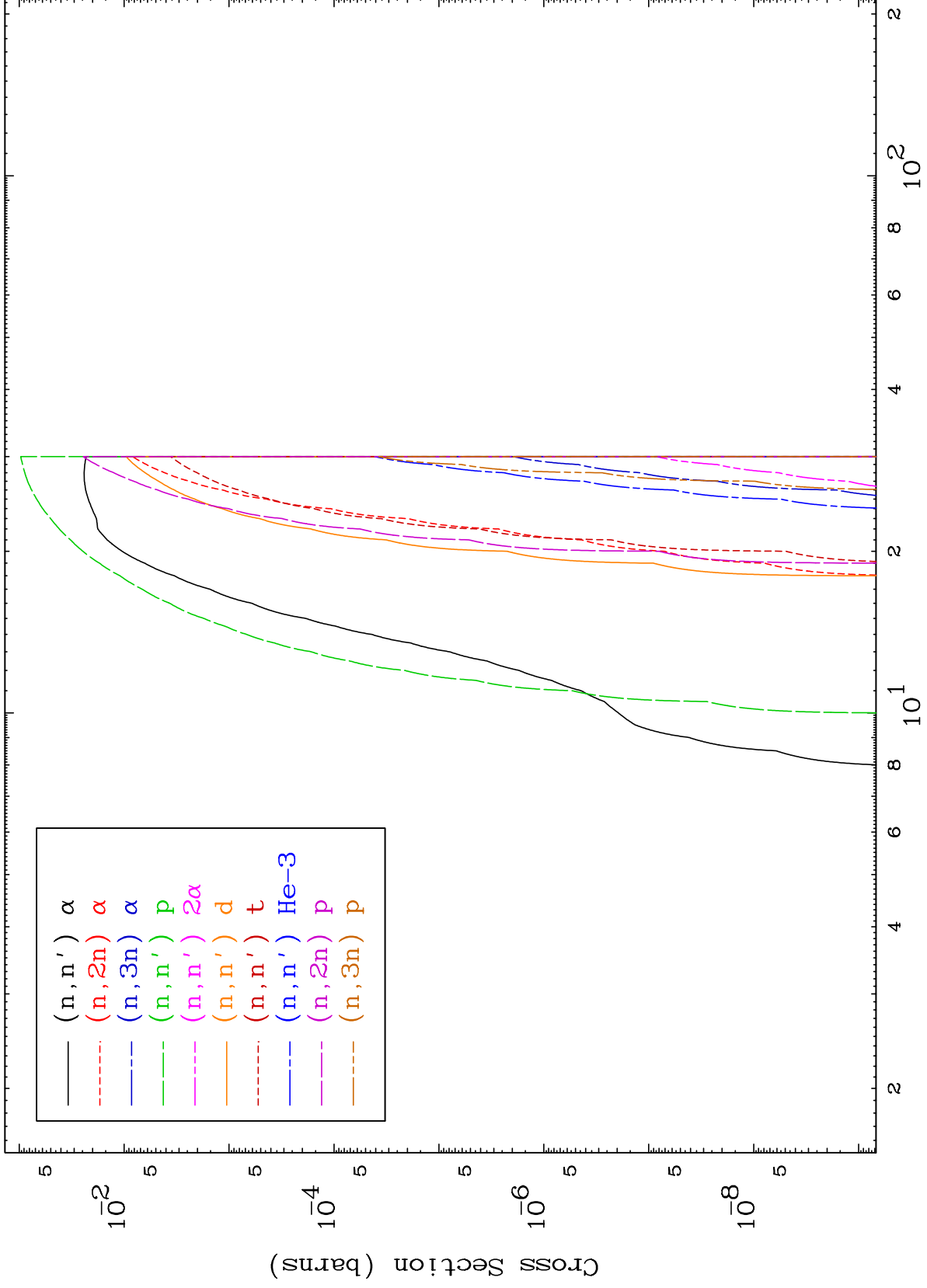




MAT 5837

Charged Particle  
293 Kelvin Cross Sections

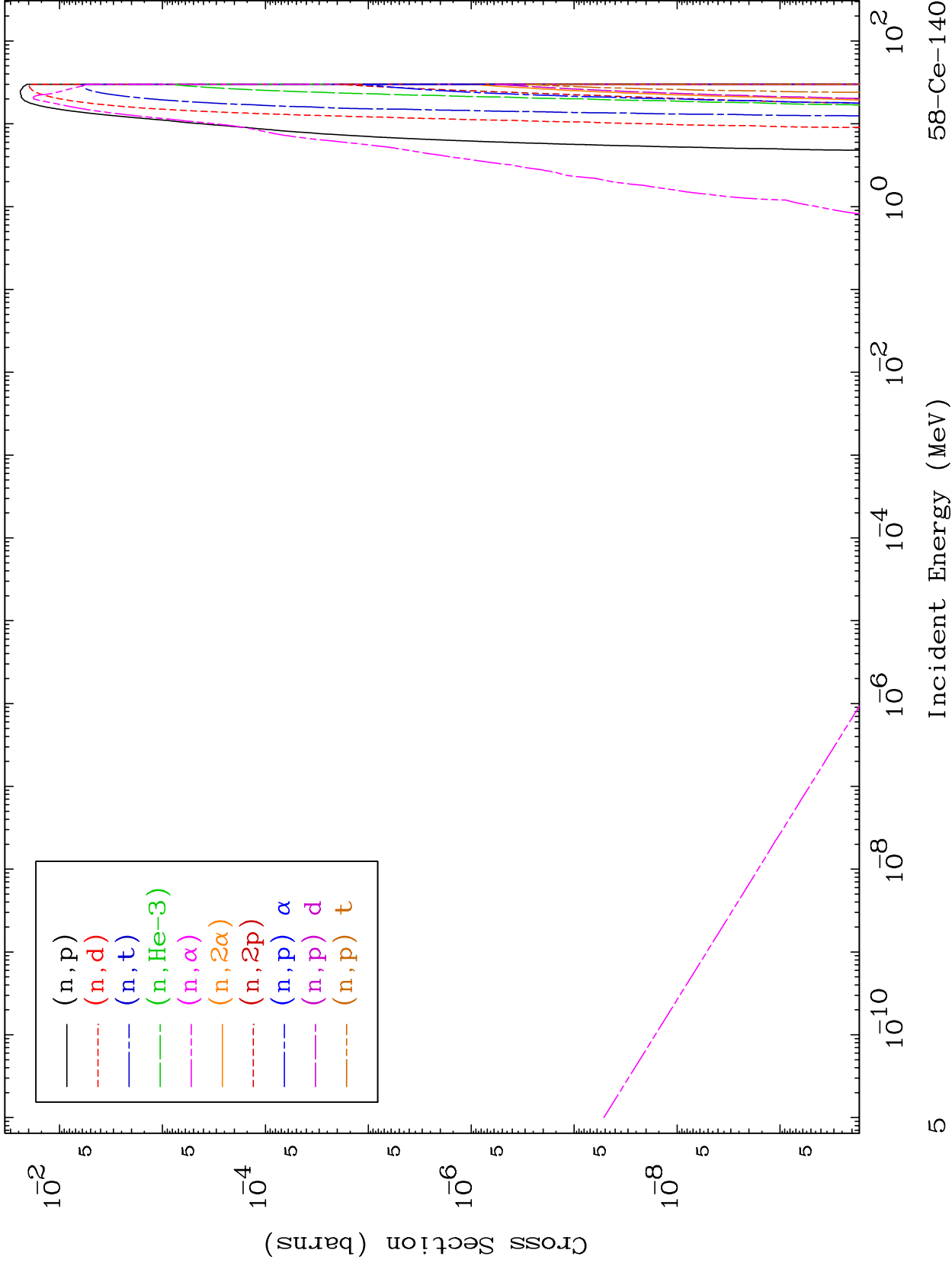
58-Ce-140



MAT 5837

Charged Particle  
293 Kelvin Cross Sections

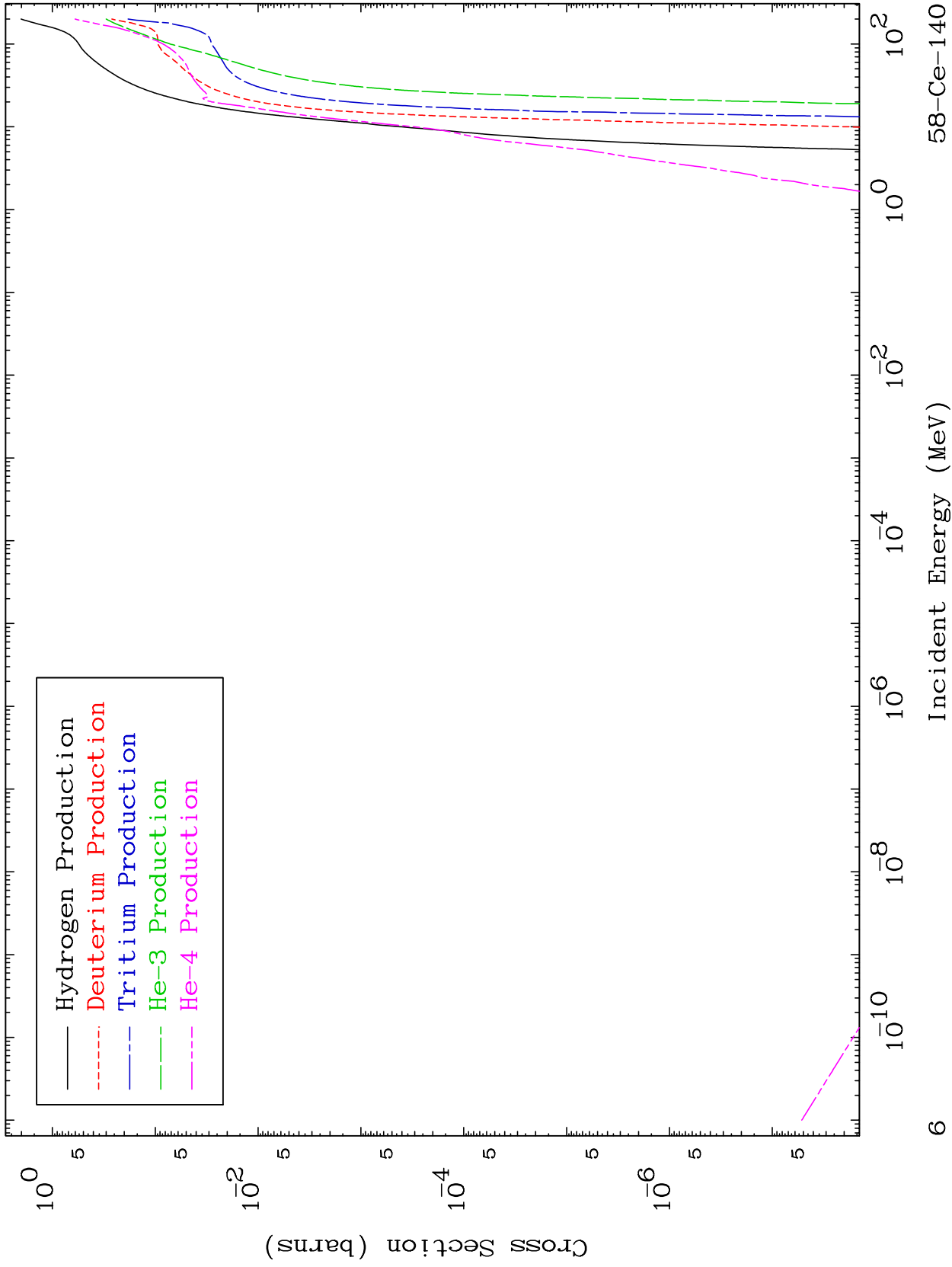
58-Ce-140



MAT 5837

Particle Production  
293 Kelvin Cross Sections

58-Ce-140

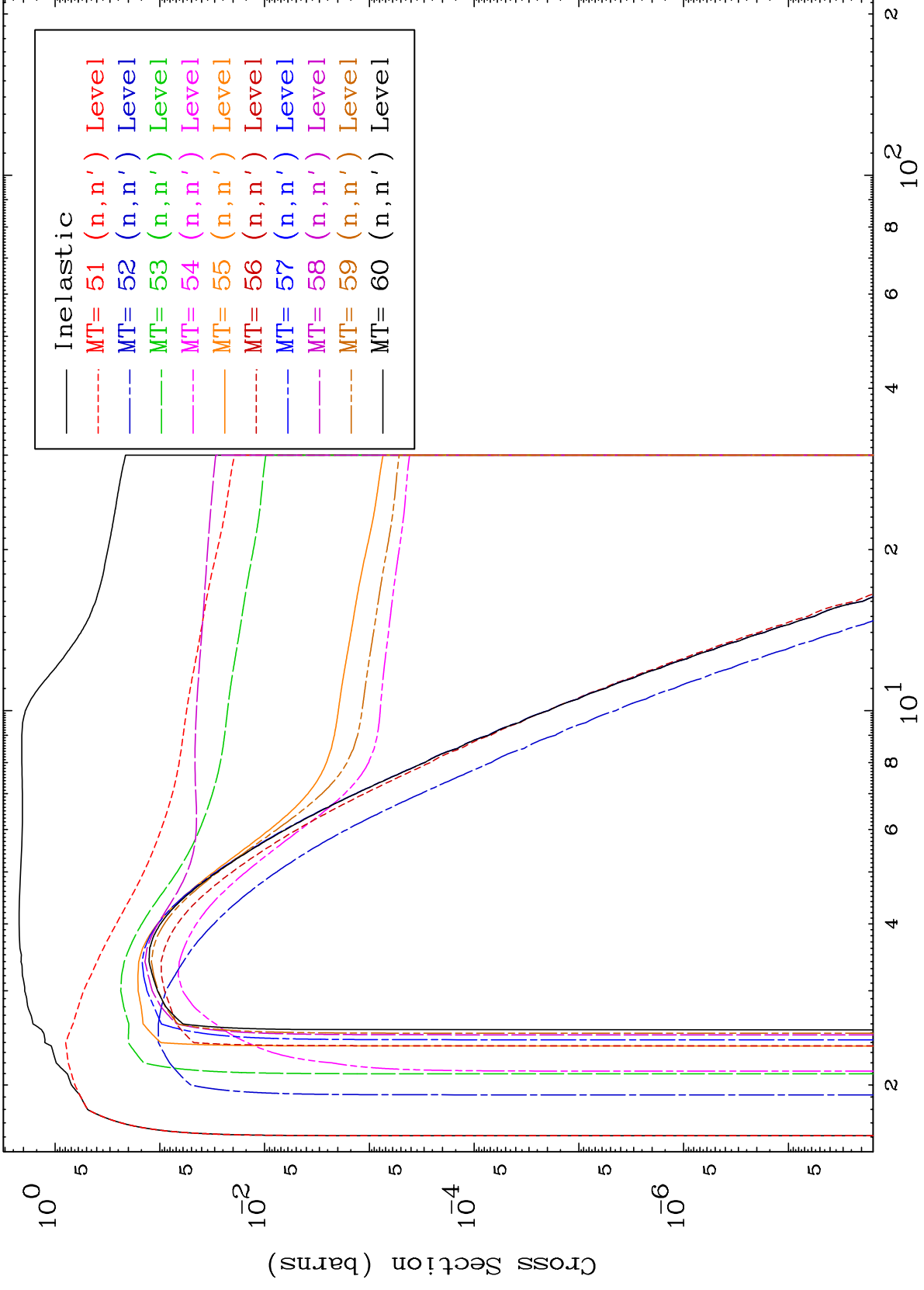


MAT 5837

(n,n') Level

58-Ce-140

293 Kelvin Cross Sections



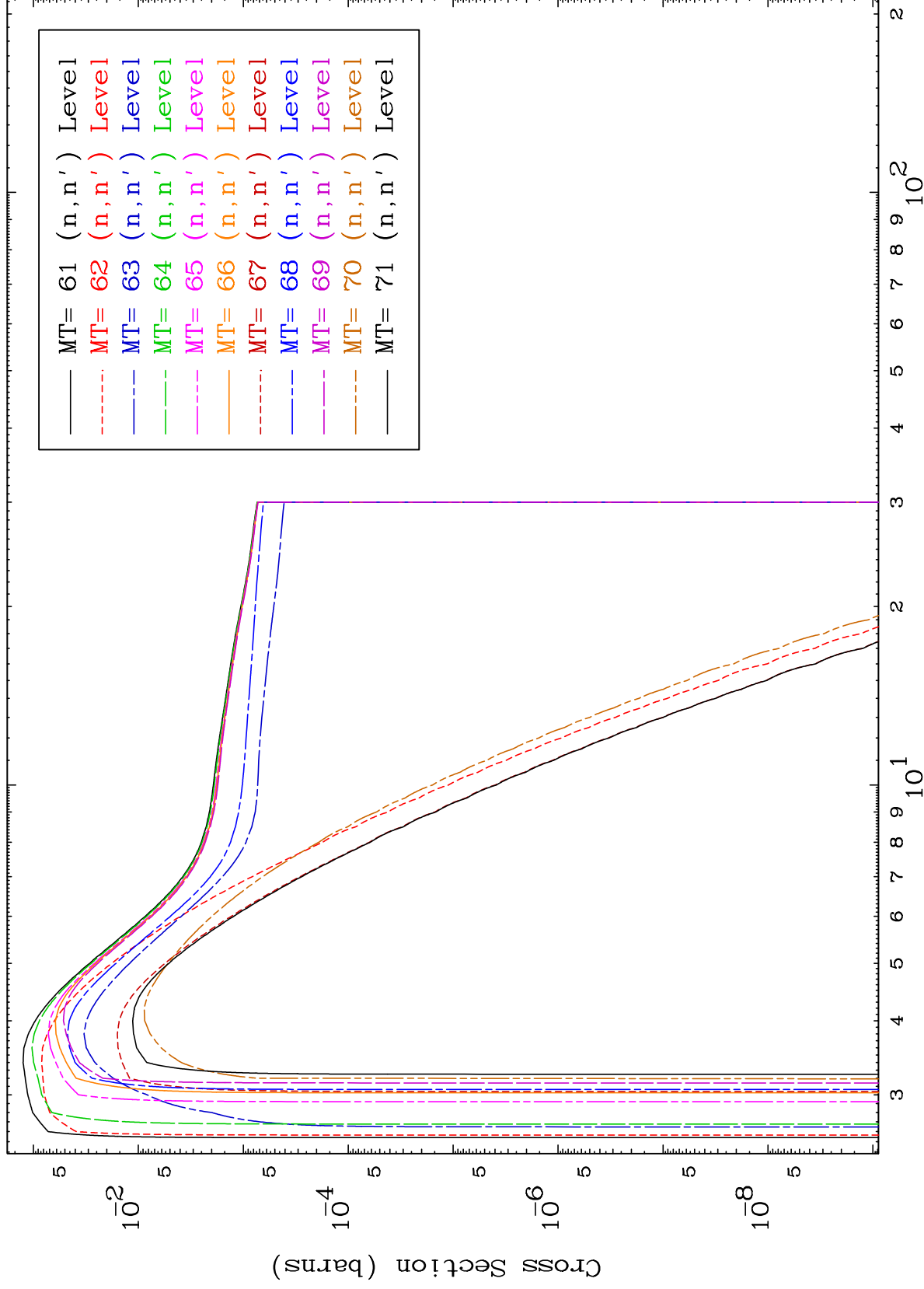


MAT 5837

(n,n') Level

58-Ce-140

293 Kelvin Cross Sections



8

Incident Energy (MeV)

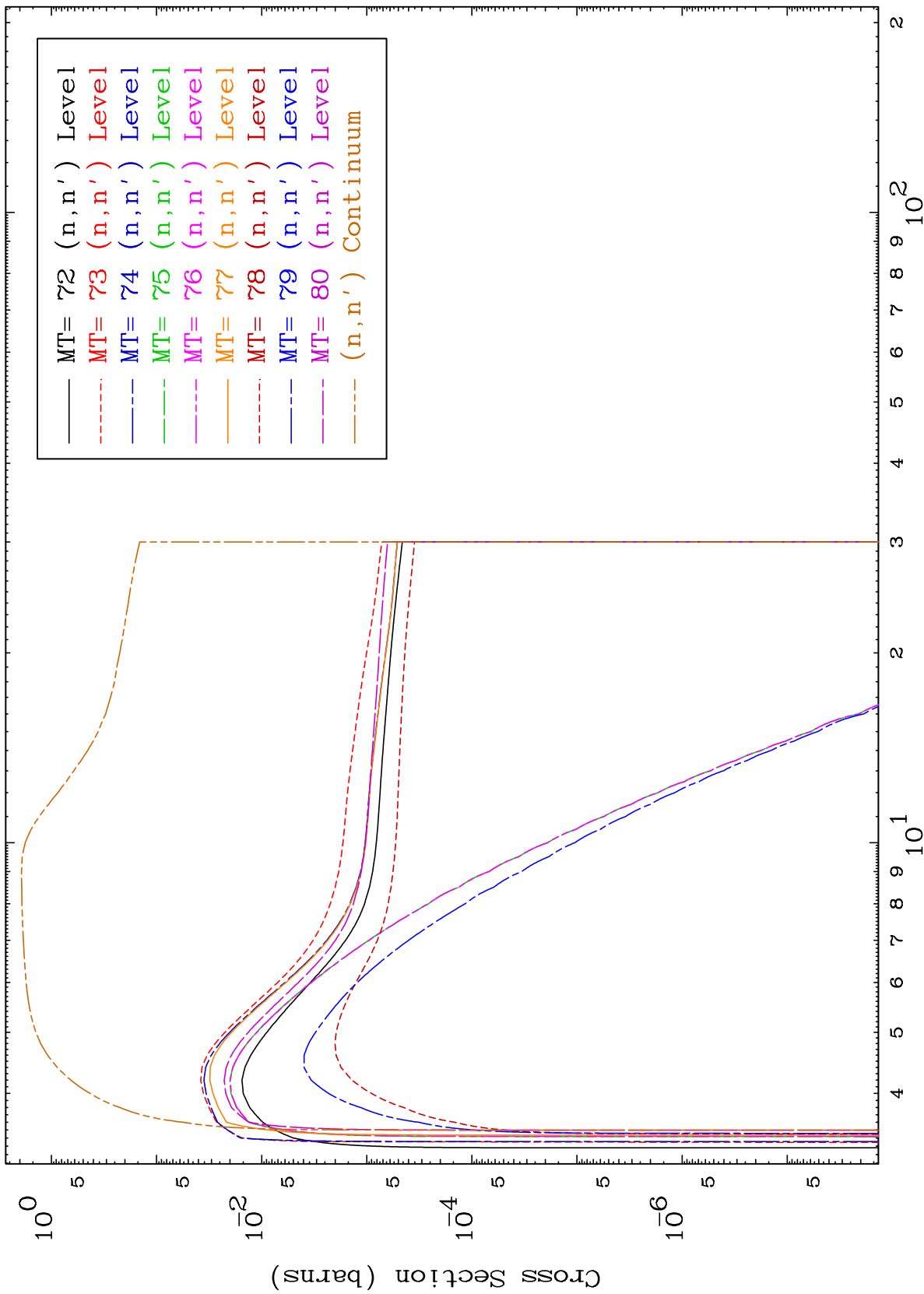
58-Ce-140

MAT 5837

(n,n') Level

58-Ce-140

293 Kelvin Cross Sections



9

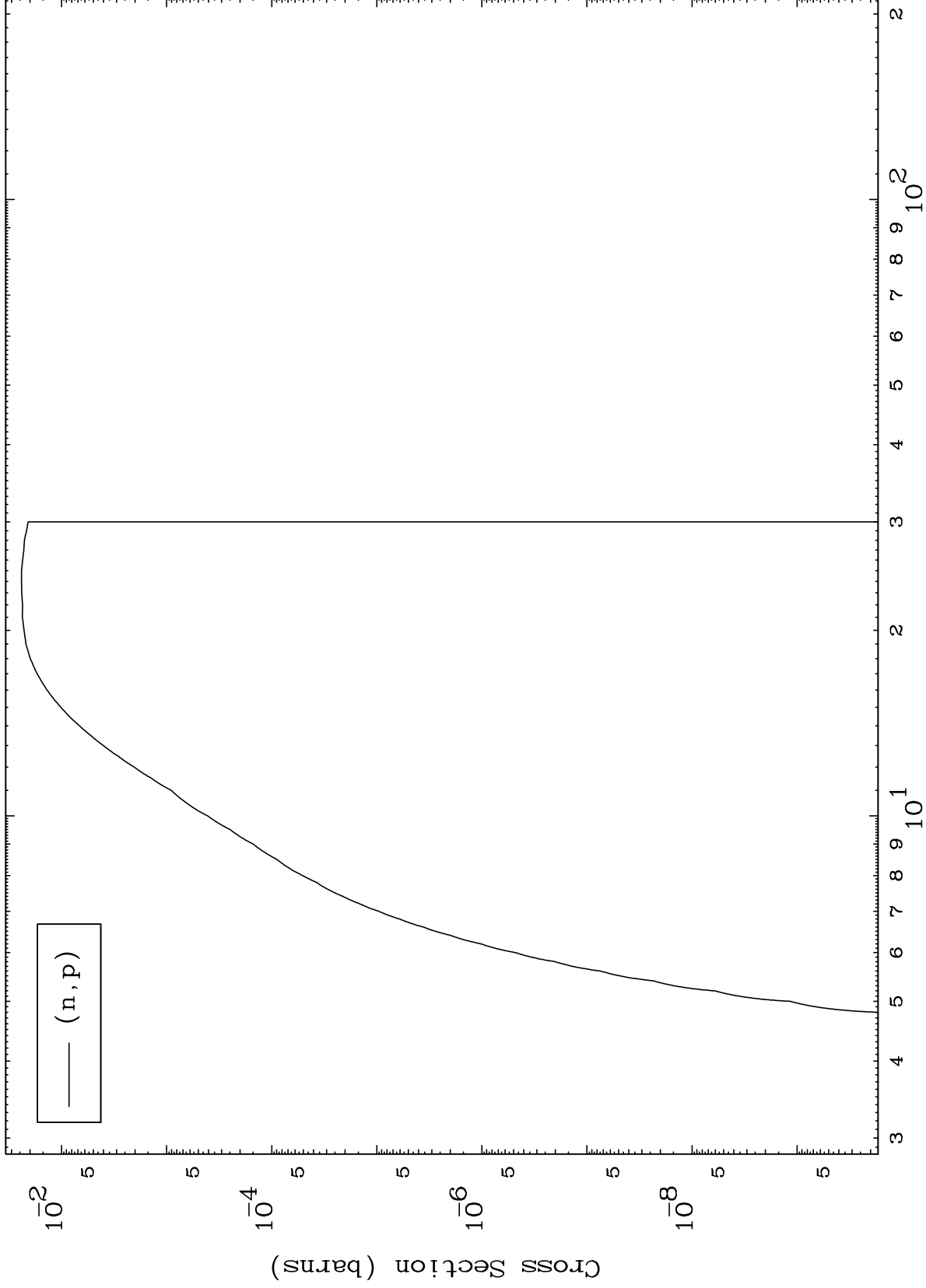
Incident Energy (MeV)

58-Ce-140

MAT 5837

(n,p) Levels  
293 Kelvin Cross Sections

58-Ce-140



10

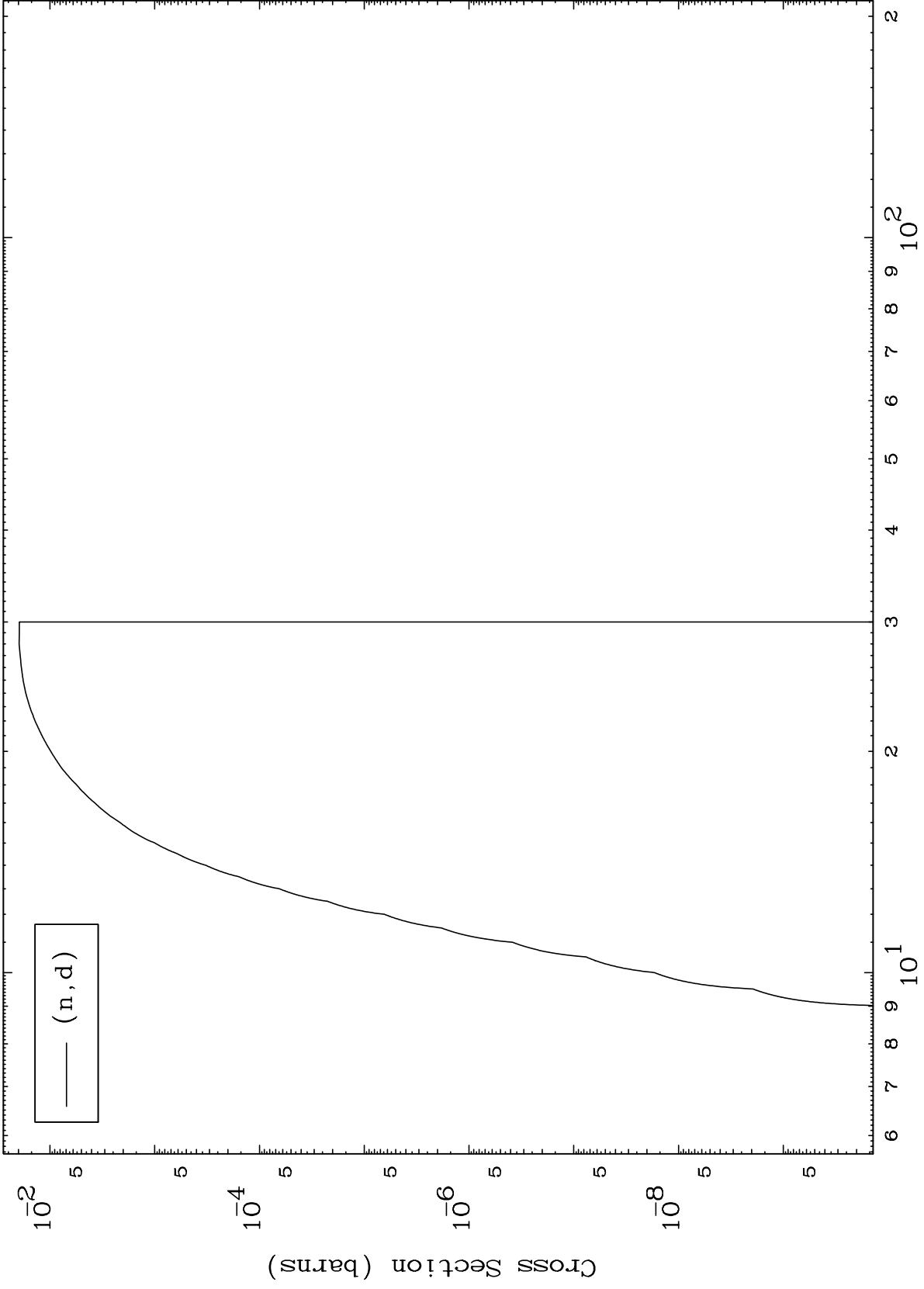
Incident Energy (MeV)

58-Ce-140

MAT 5837

(n,d) Levels  
293 Kelvin Cross Sections

58-Ce-140



11

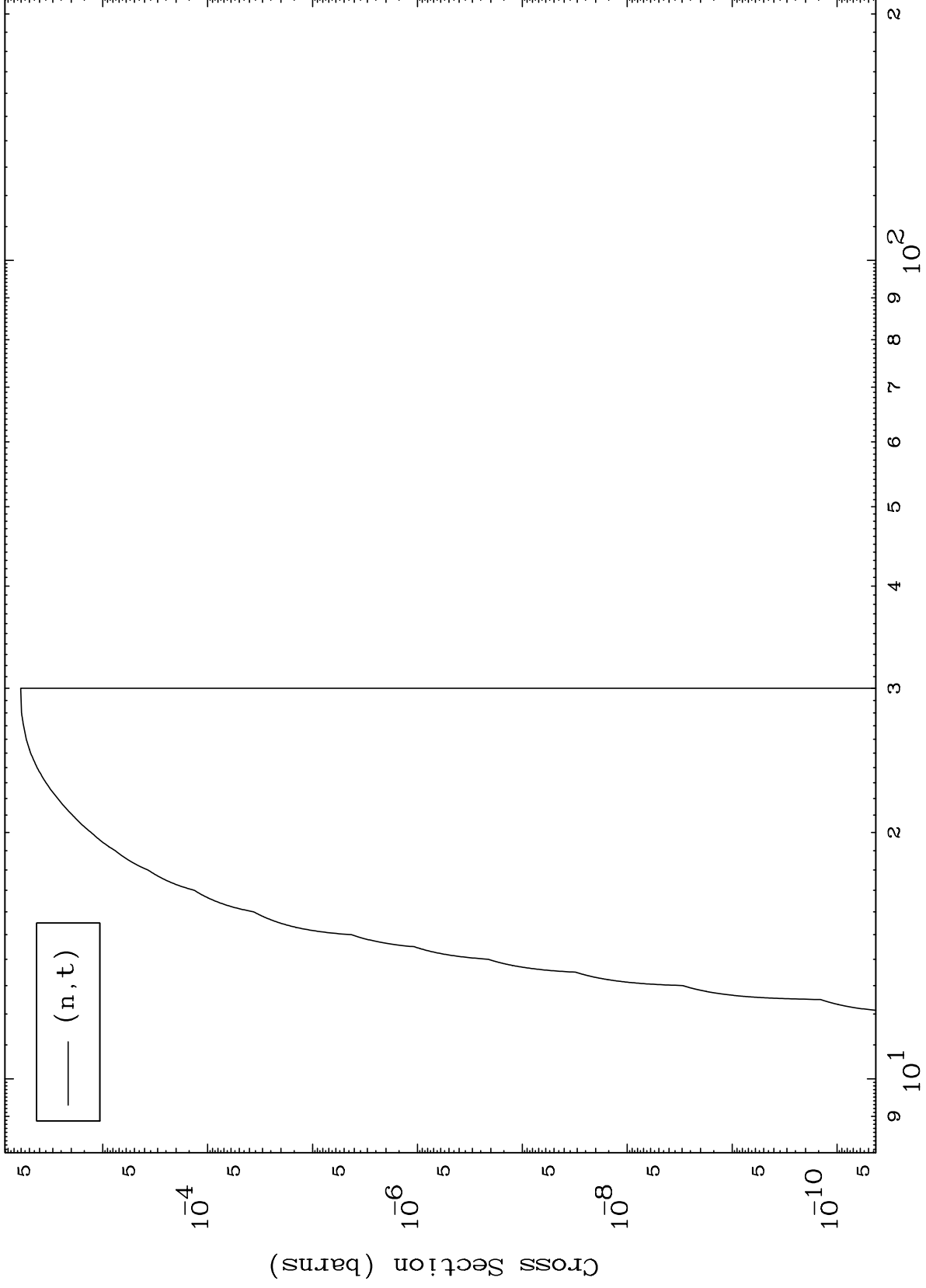
Incident Energy (MeV)

58-Ce-140

MAT 5837

(n,t) Levels  
293 Kelvin Cross Sections

58-Ce-140



12

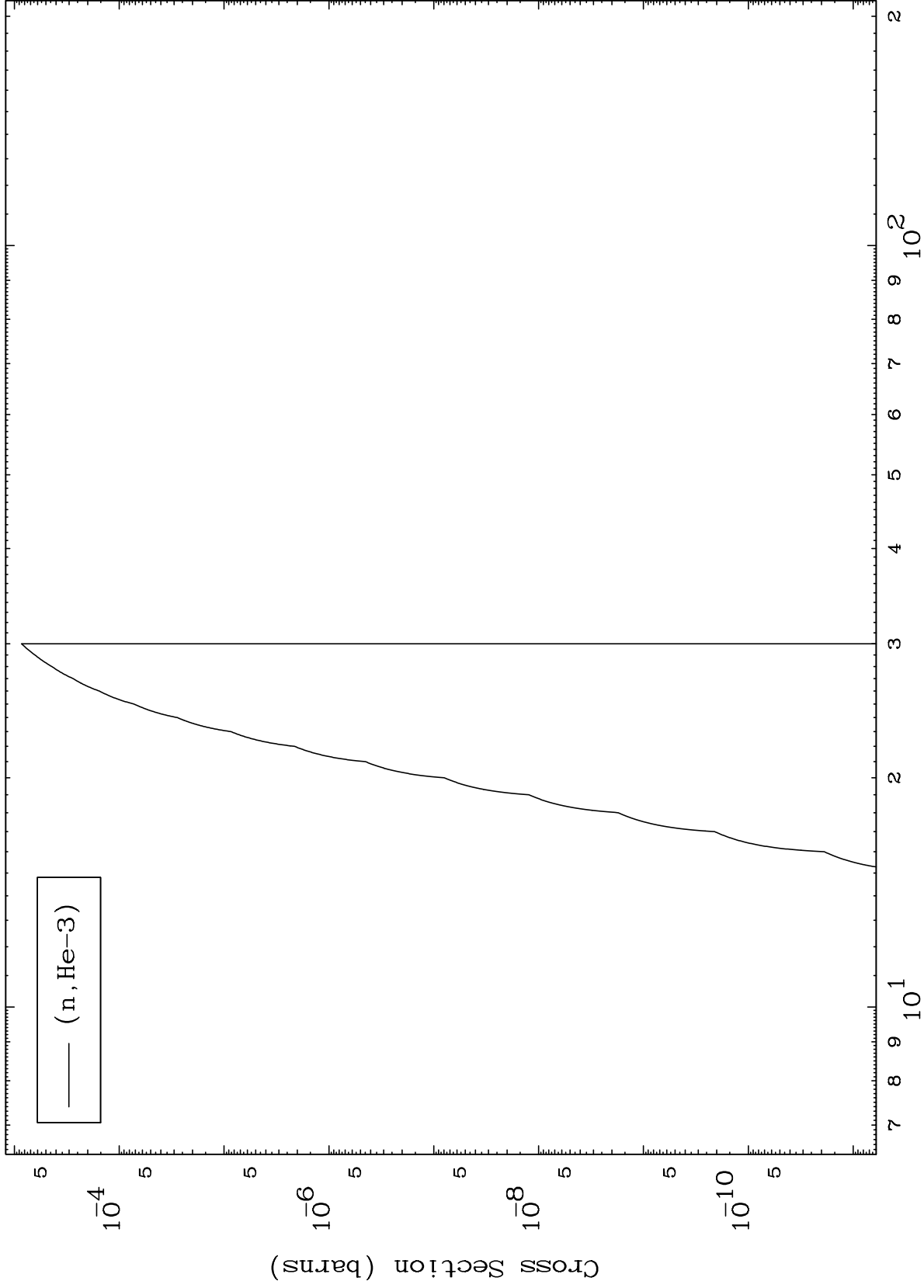
Incident Energy (MeV)

58-Ce-140

MAT 5837

(n,He3) Levels  
293 Kelvin Cross Sections

58-Ce-140



13

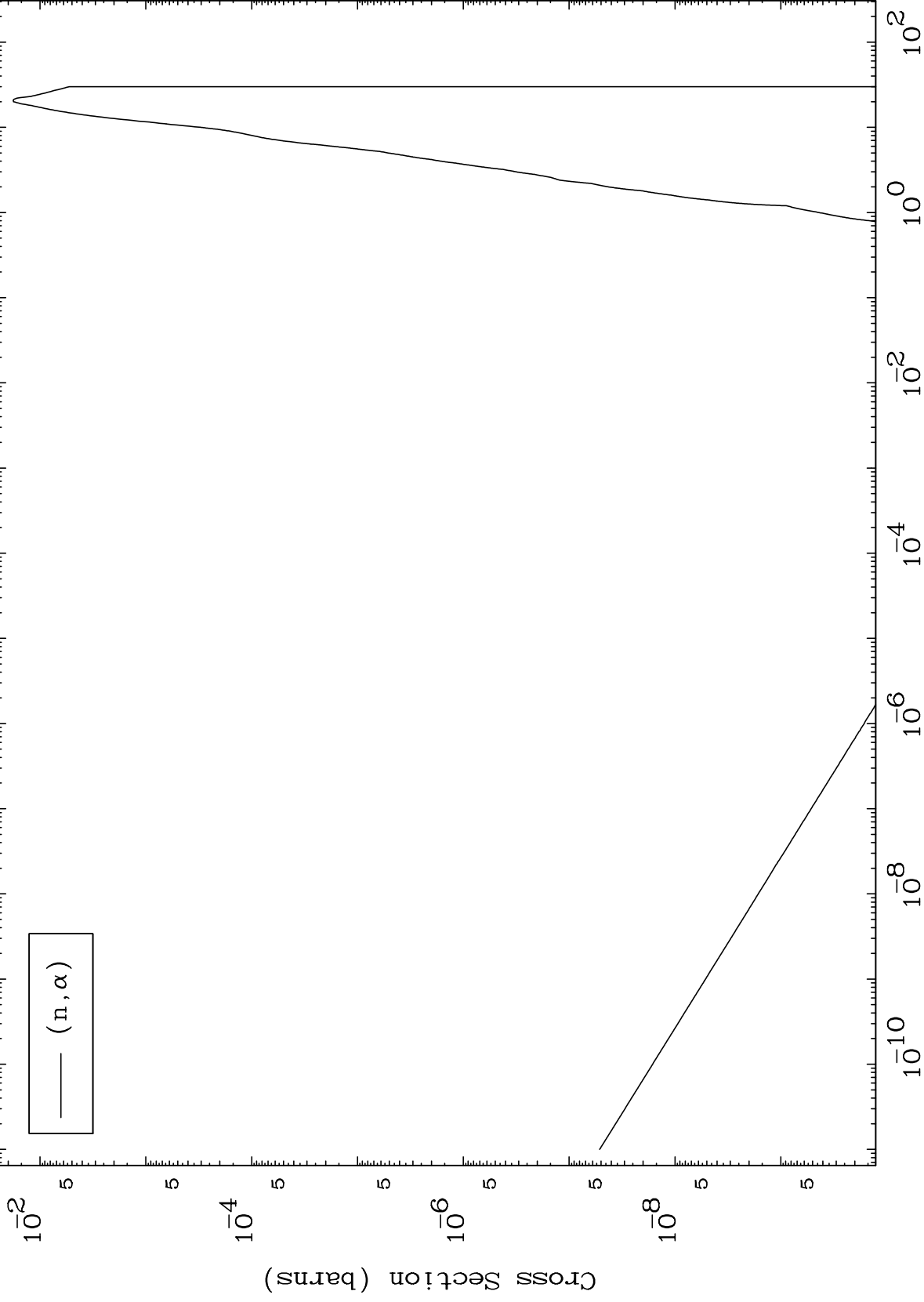
Incident Energy (MeV)

58-Ce-140

MAT 5837

(n,  $\alpha$ ) Levels  
293 Kelvin Cross Sections

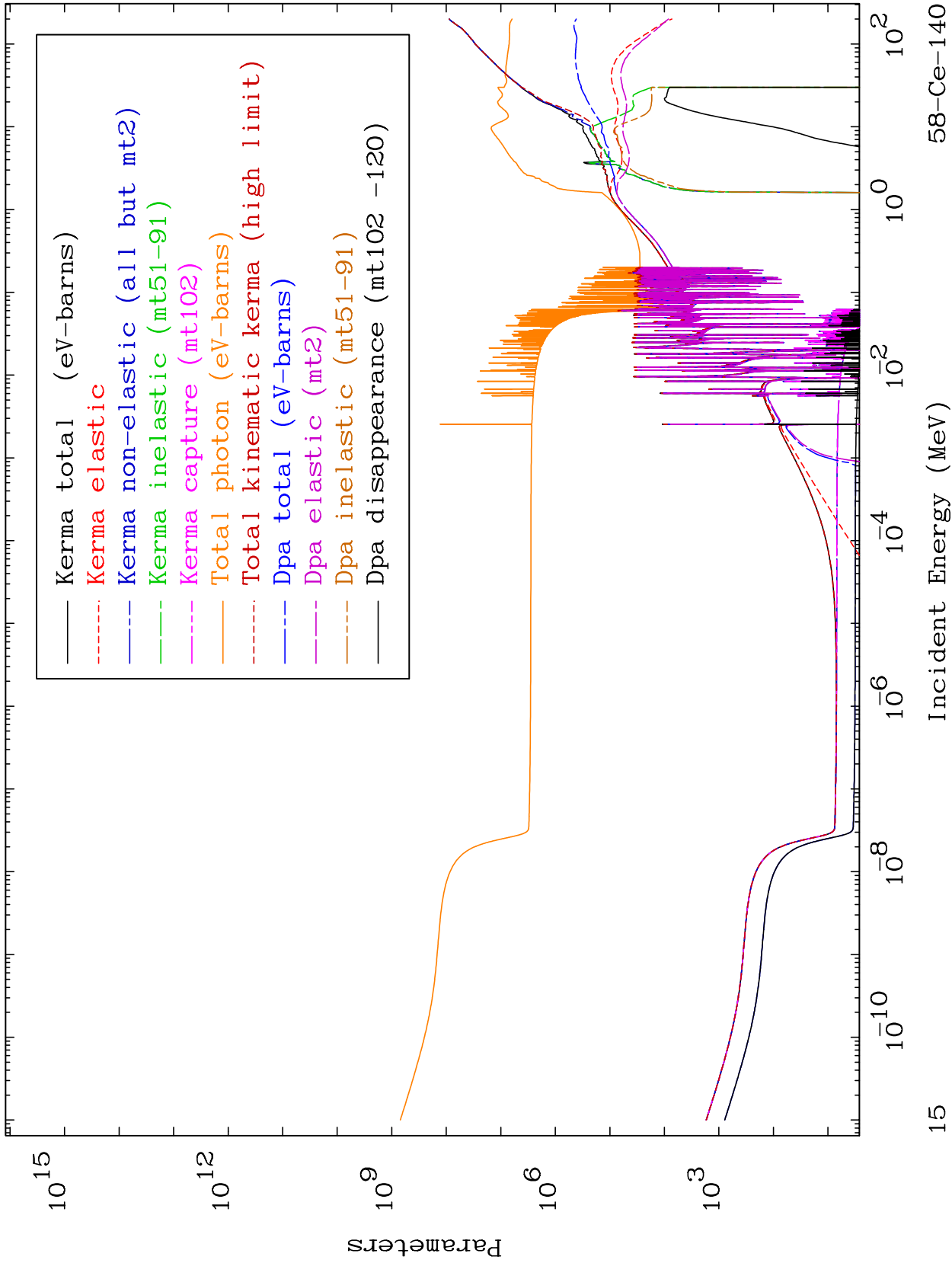
58-Ce-140



14

Incident Energy (MeV)

58-Ce-140

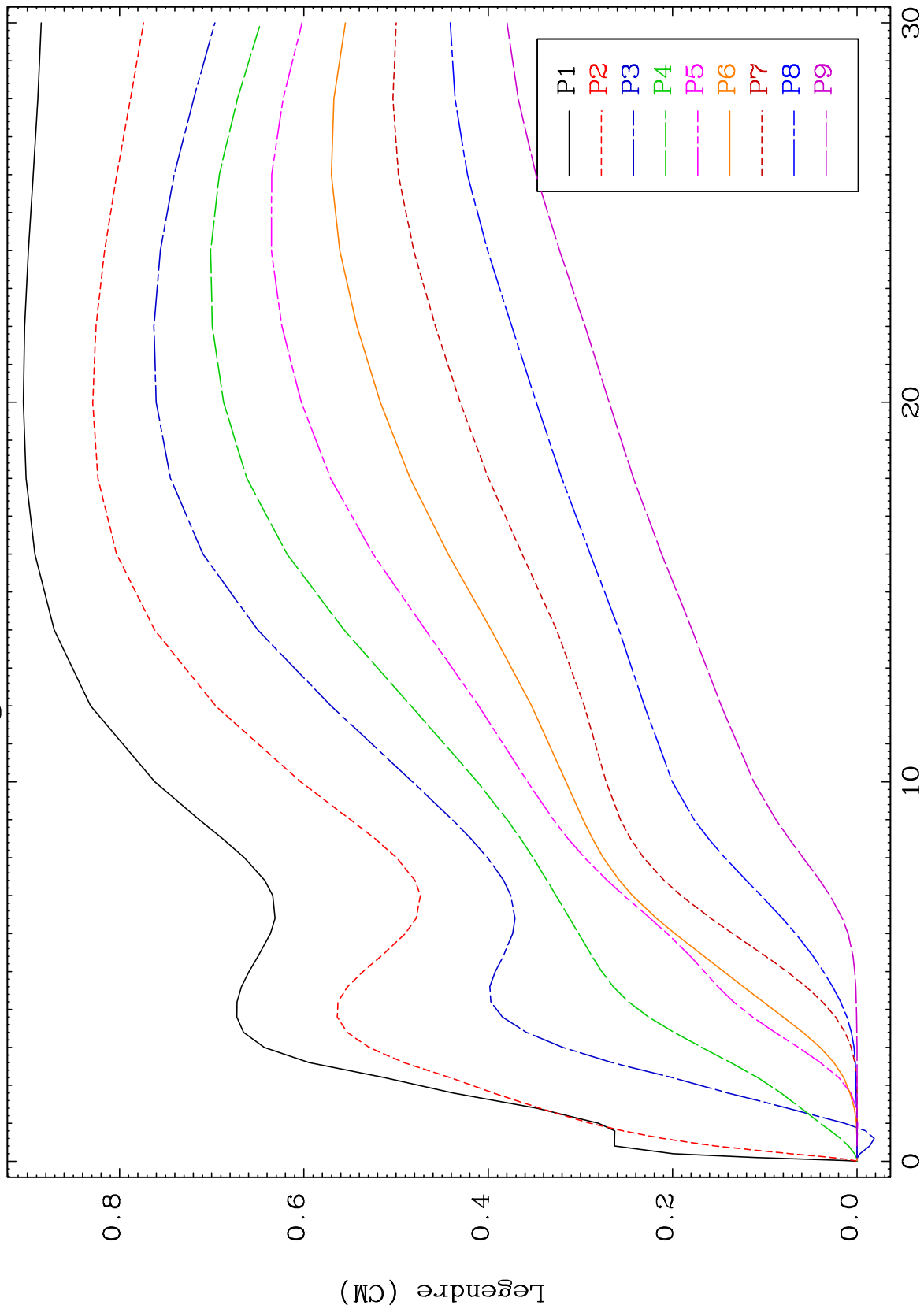




MAT 5837

Elastic Legendre Coefficients

58-Ce-140



16

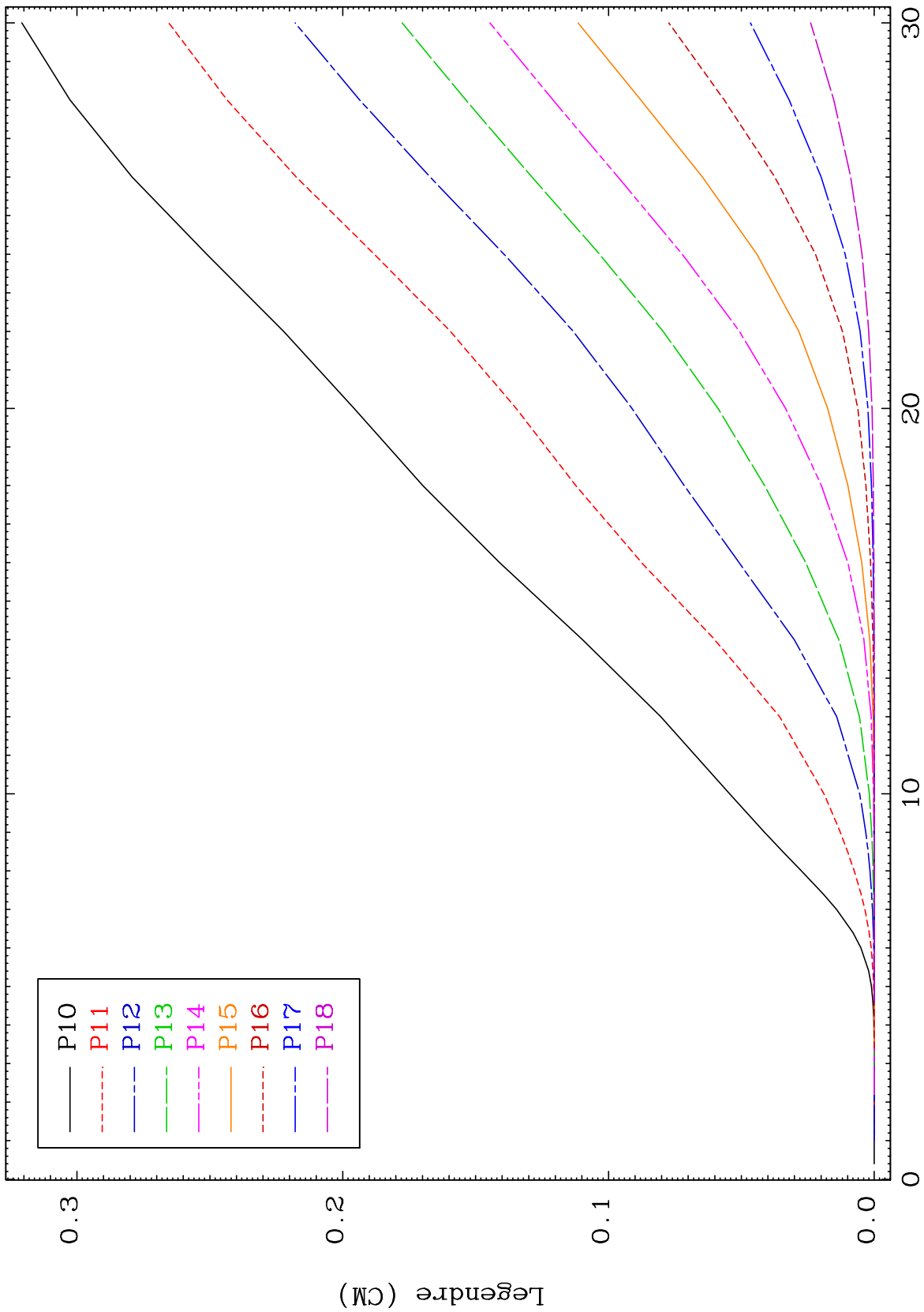
Incident Energy (MeV)

58-Ce-140

MAT 5837

Elastic Legendre Coefficients

58-Ce-140



17

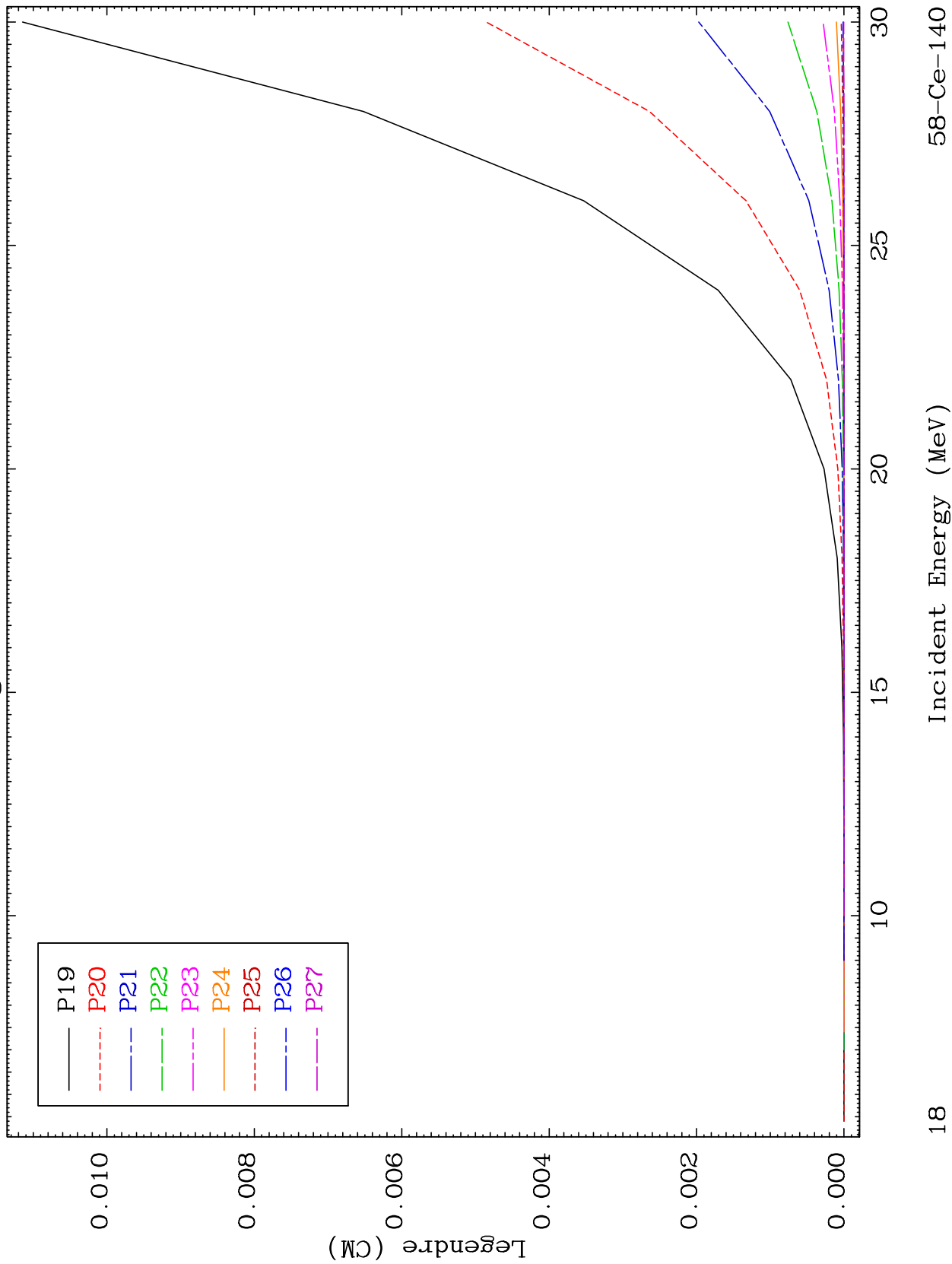
Incident Energy (MeV)

58-Ce-140

MAT 5837

### Elastic Legendre Coefficients

58-Ce-140



18

Incident Energy (MeV)

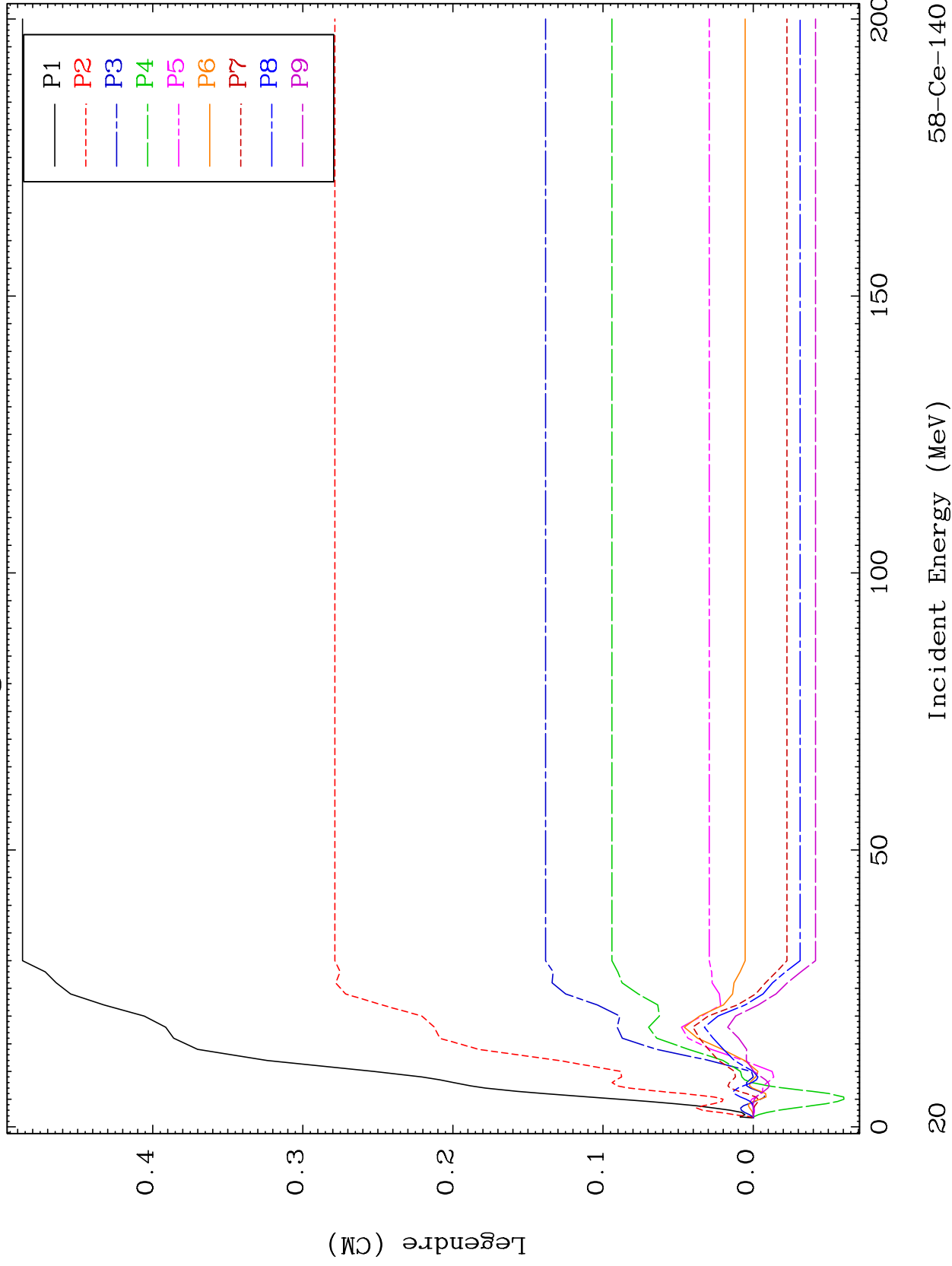
58-Ce-140



MAT 5837

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

58-Ce-140

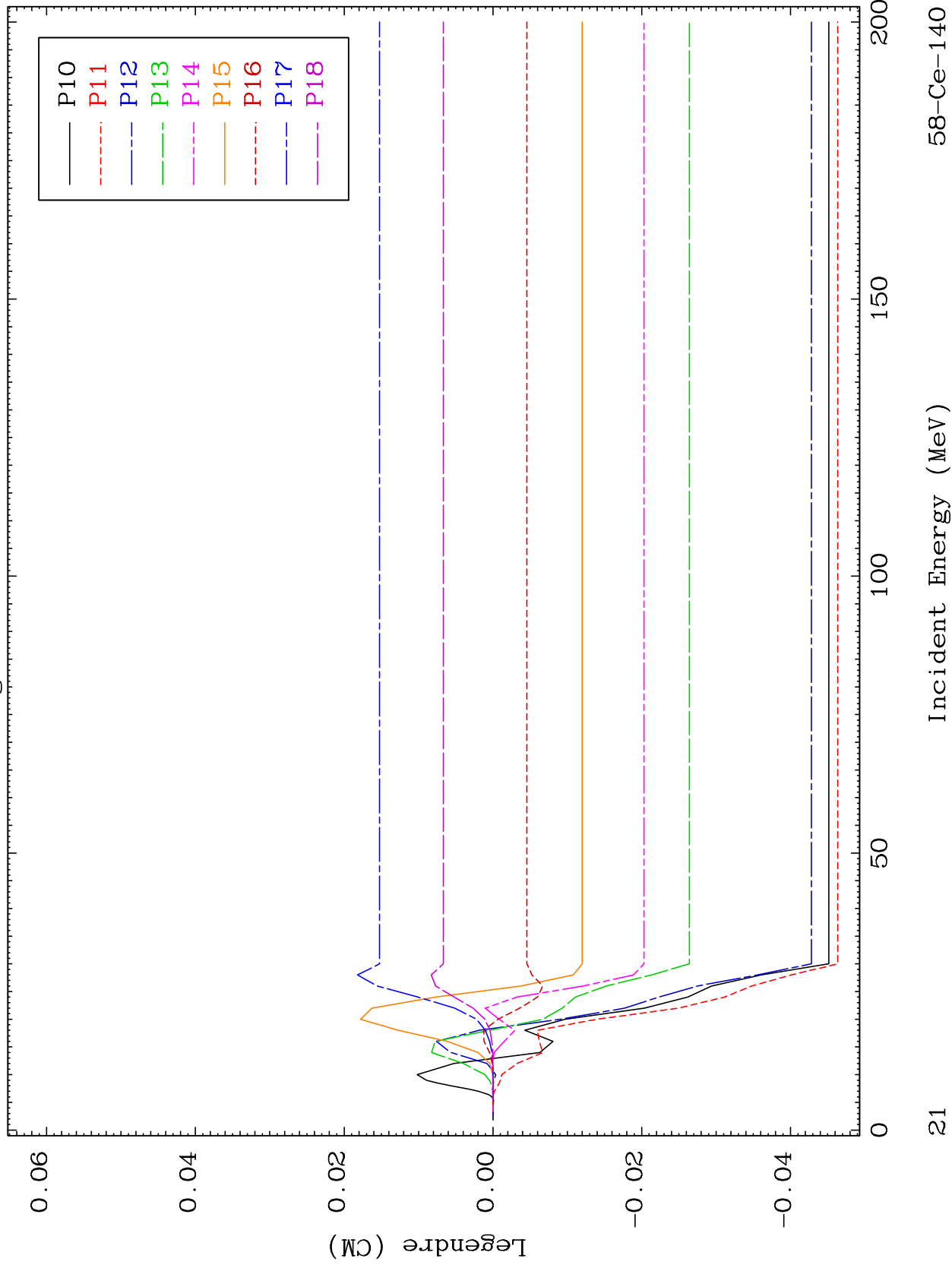


58-Ce-140

MAT 5837

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

58-Ce-140



21

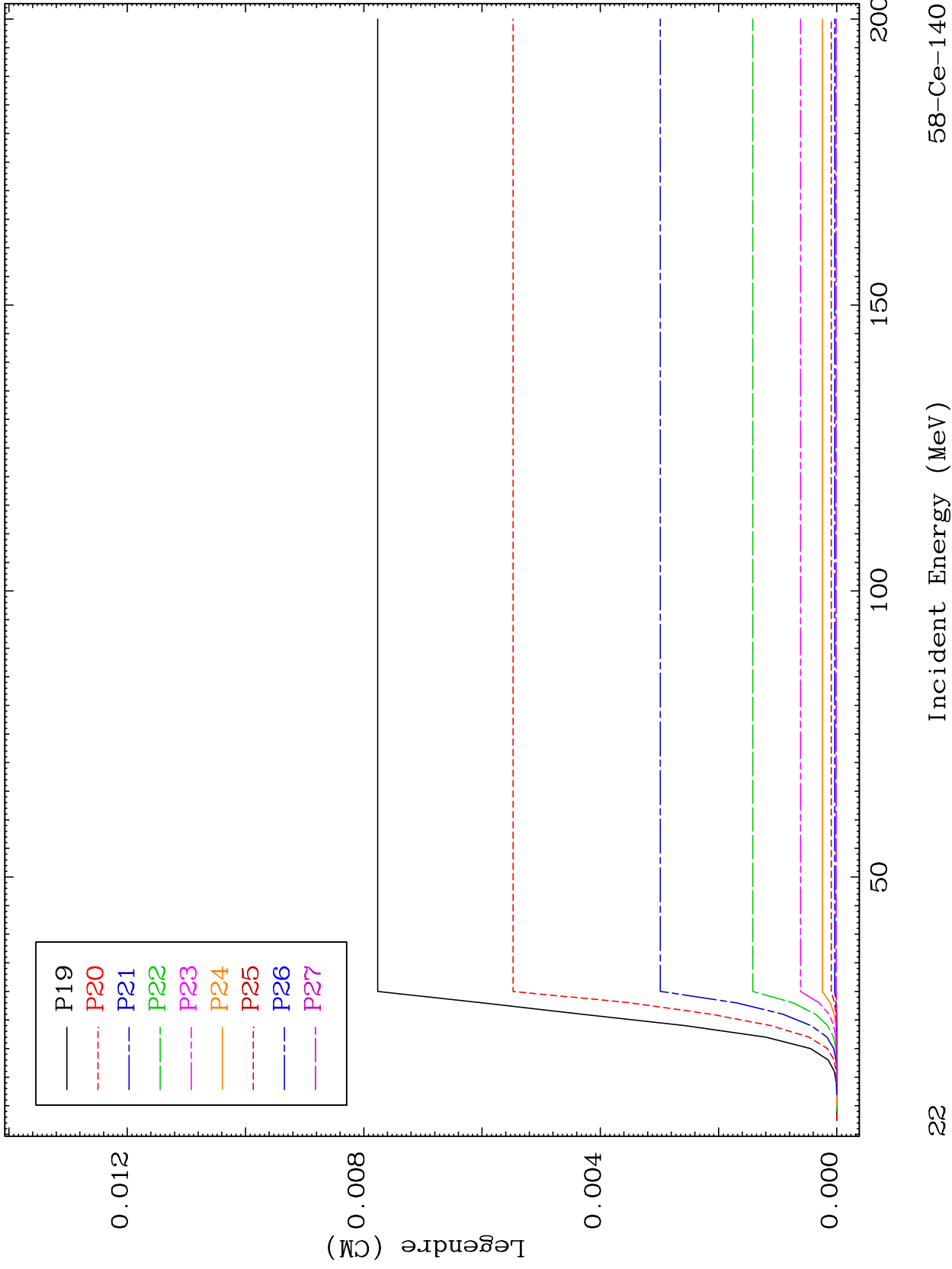
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

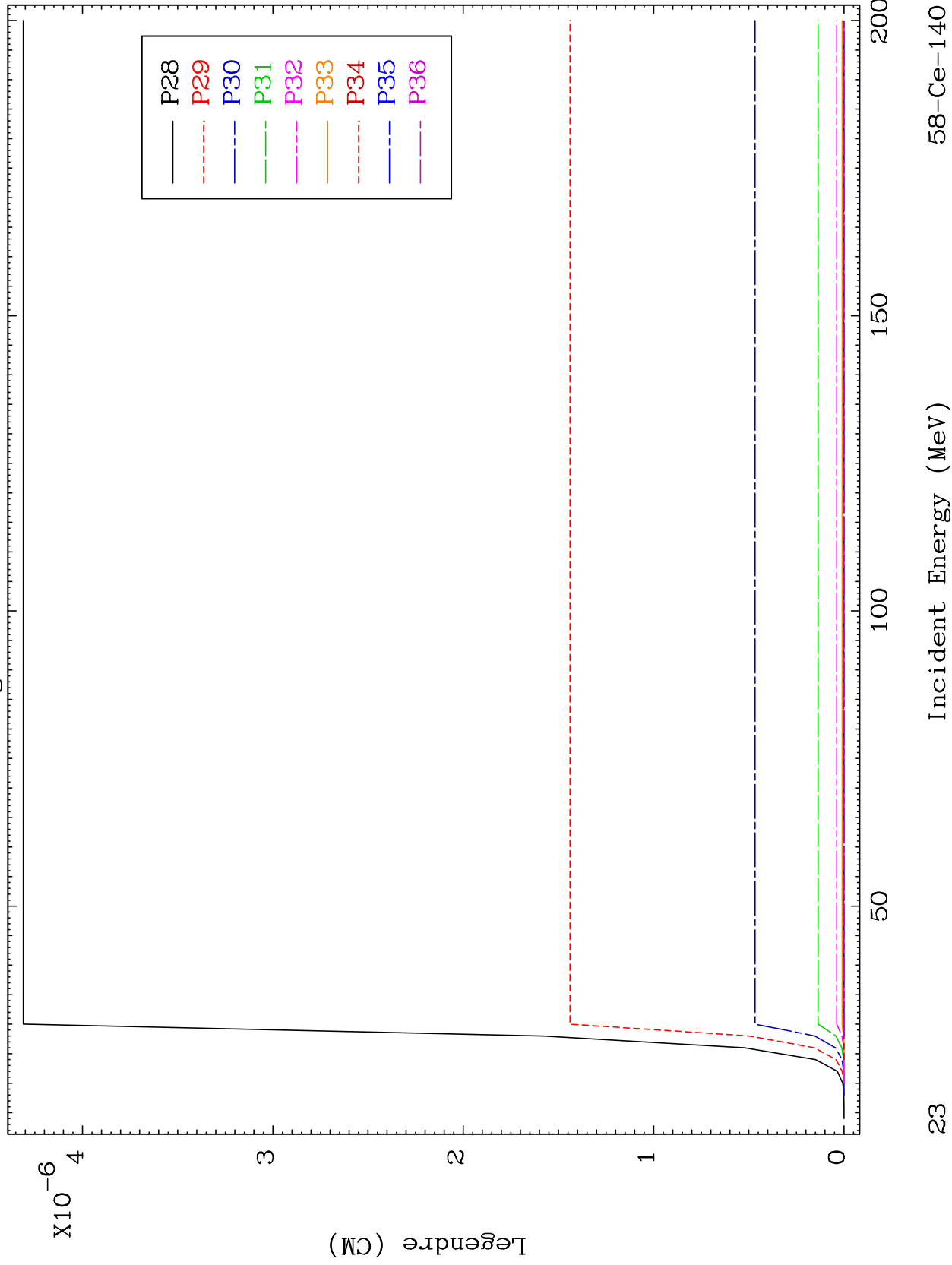
58-Ce-140



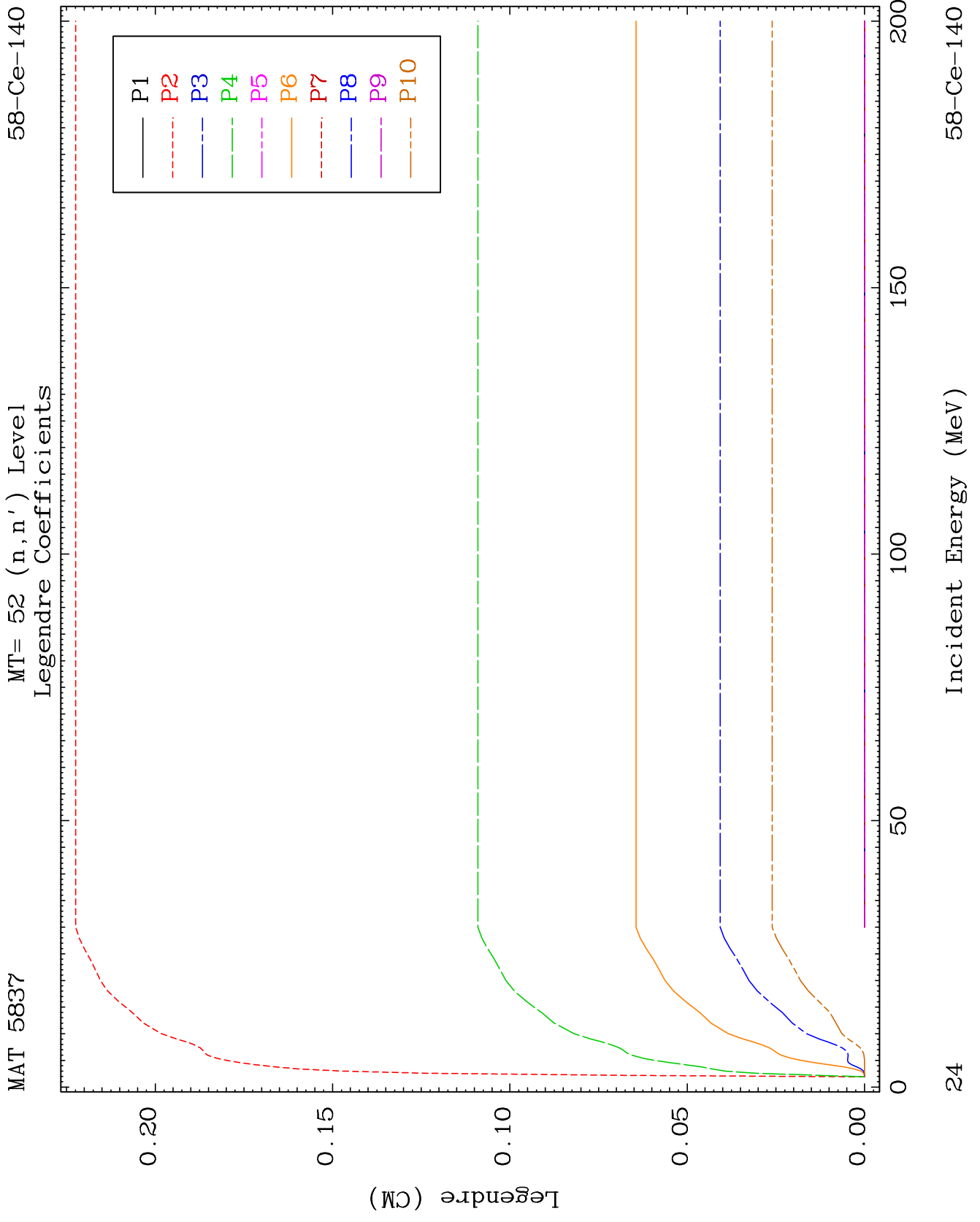
MAT 5837

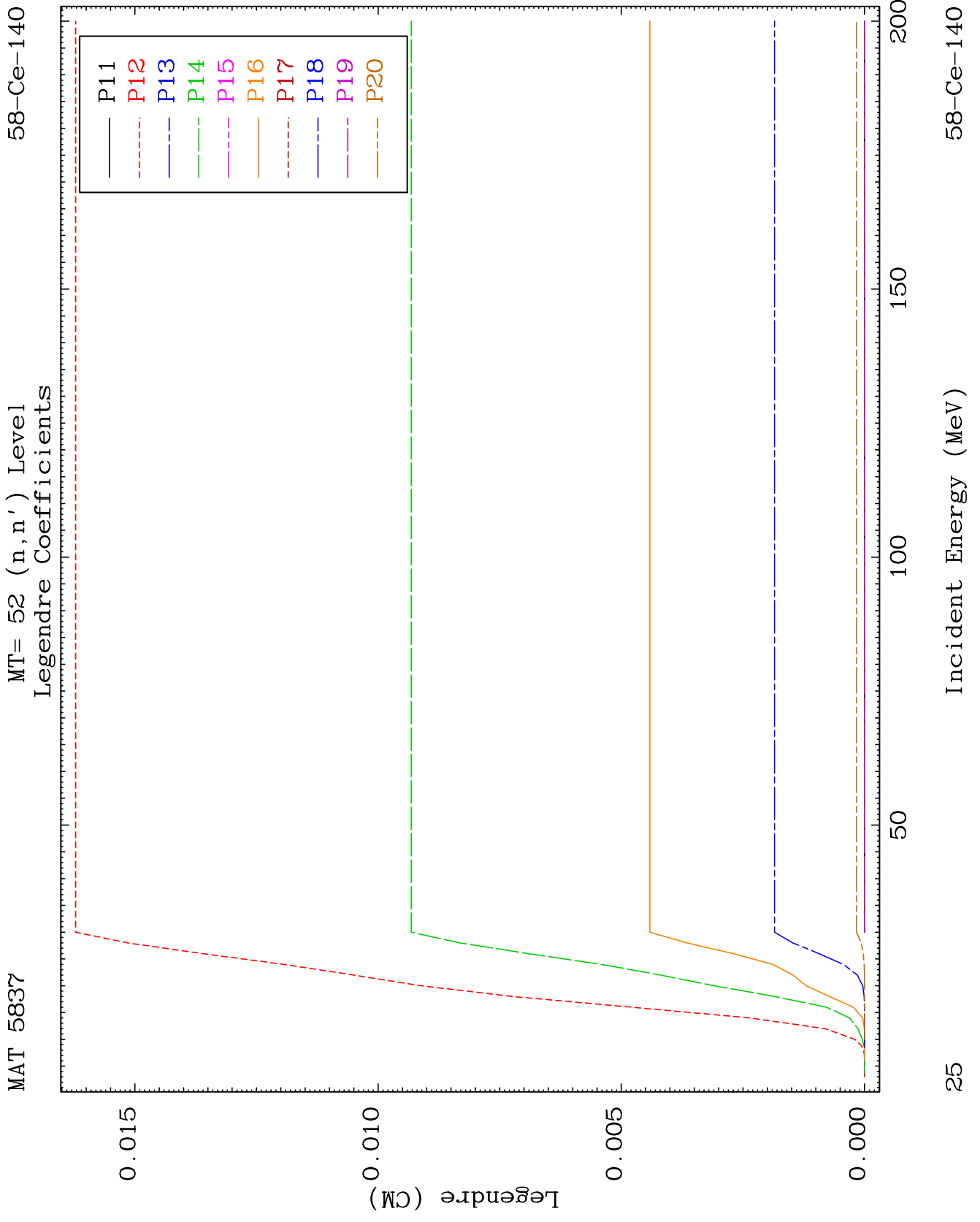
MT= 51 (n,n') Level  
Legendre Coefficients

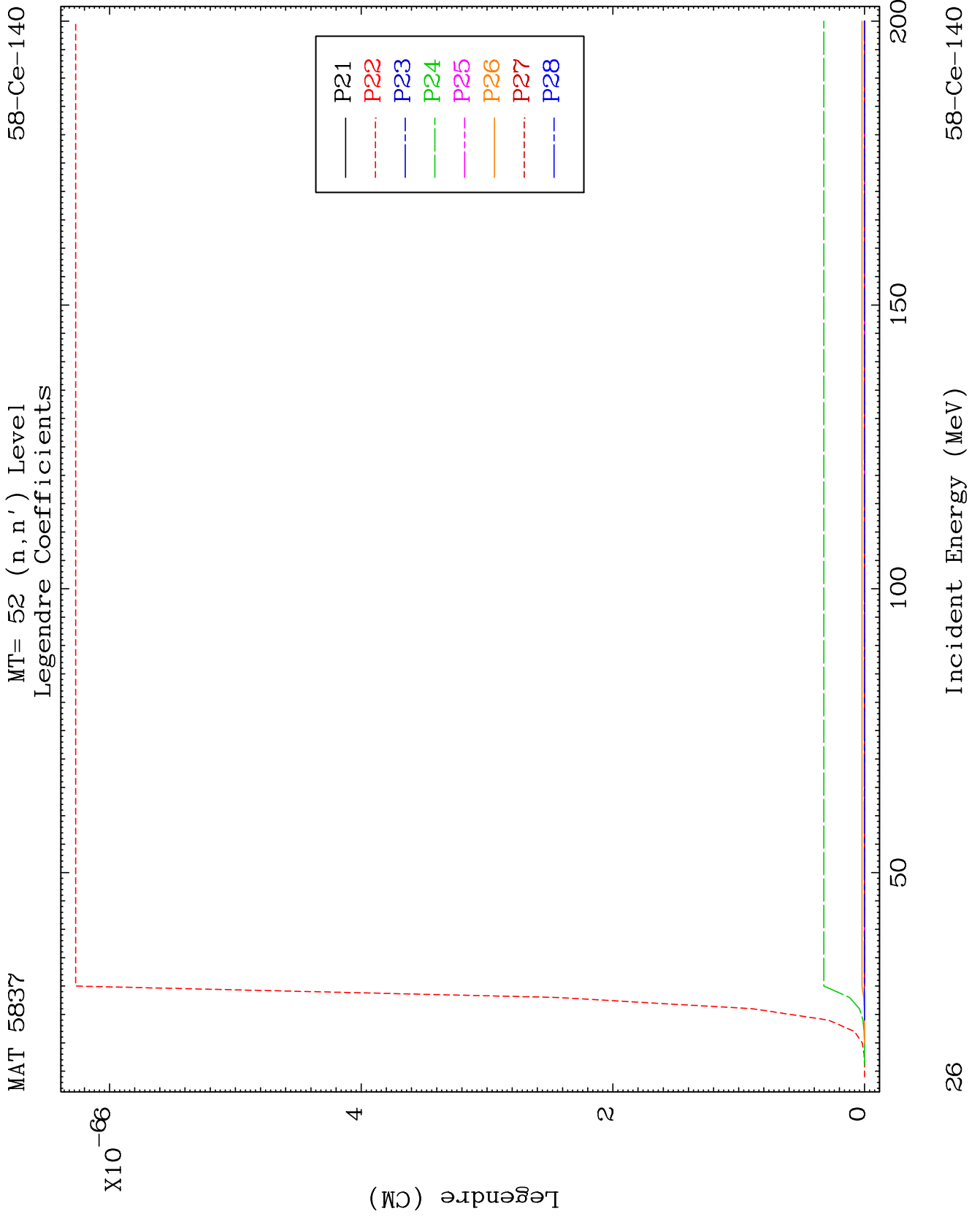
58-Ce-140







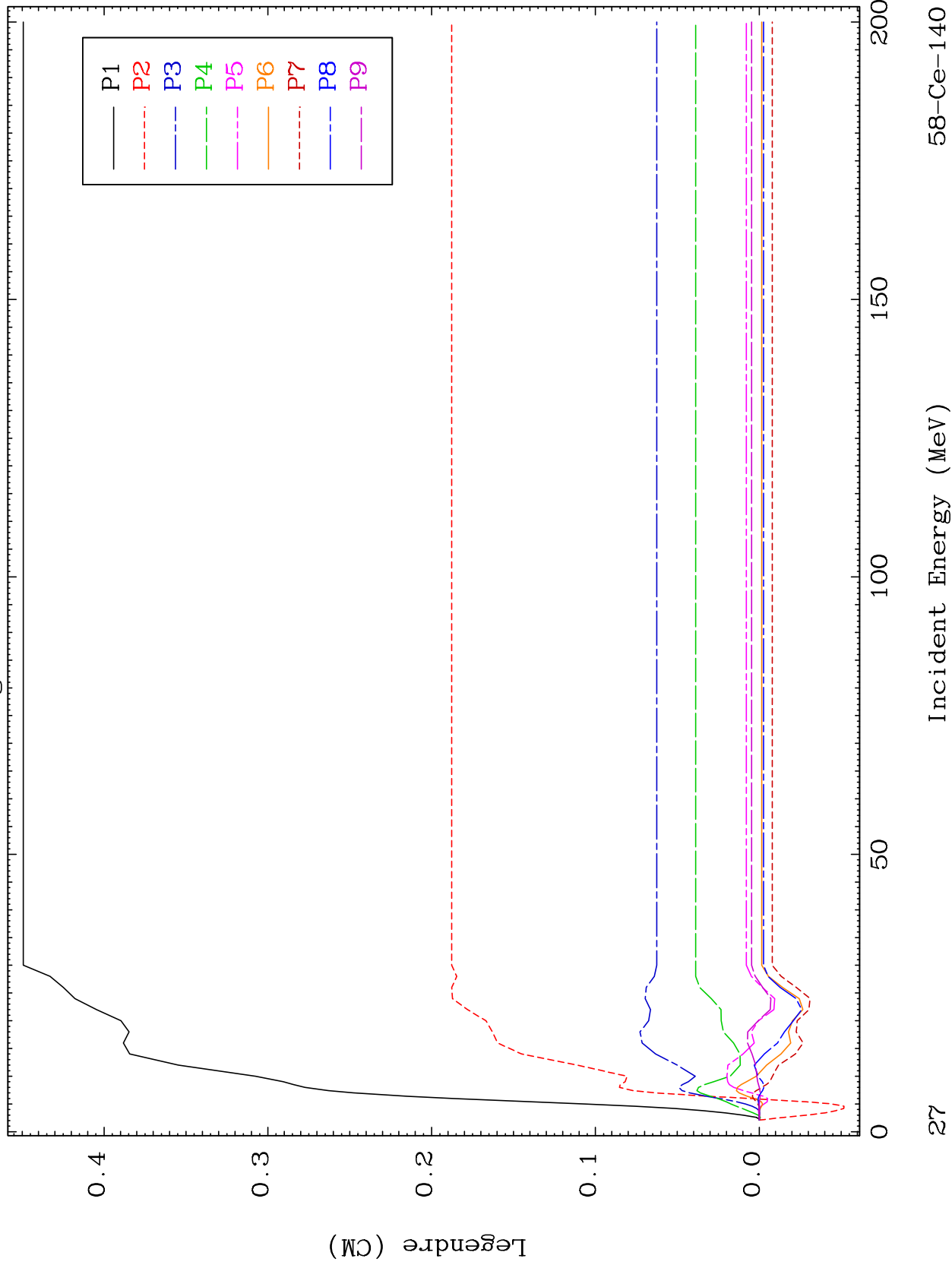




MAT 5837

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

58-Ce-140



58-Ce-140

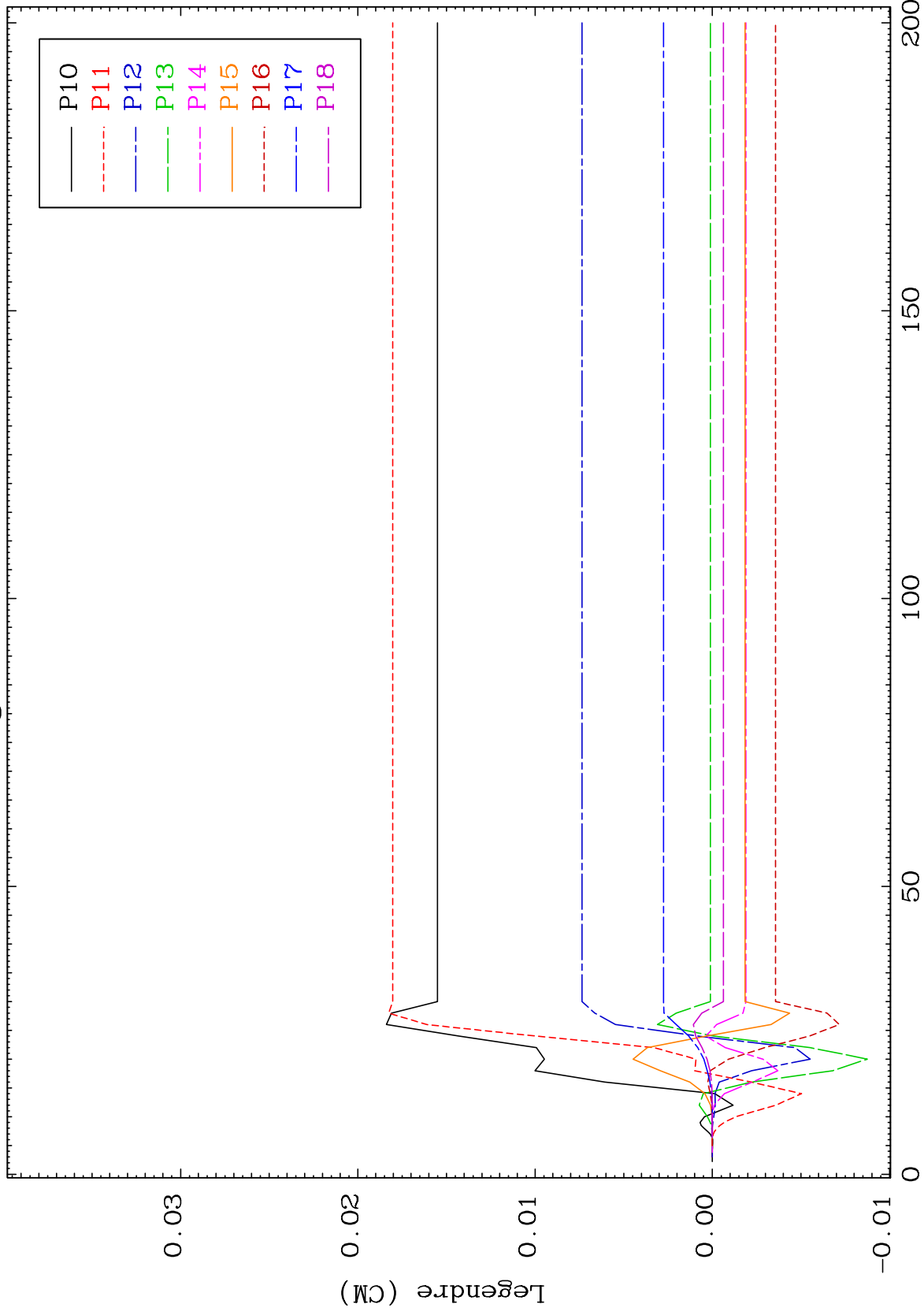
Incident Energy (MeV)

27

MAT 5837

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

58-Ce-140



28

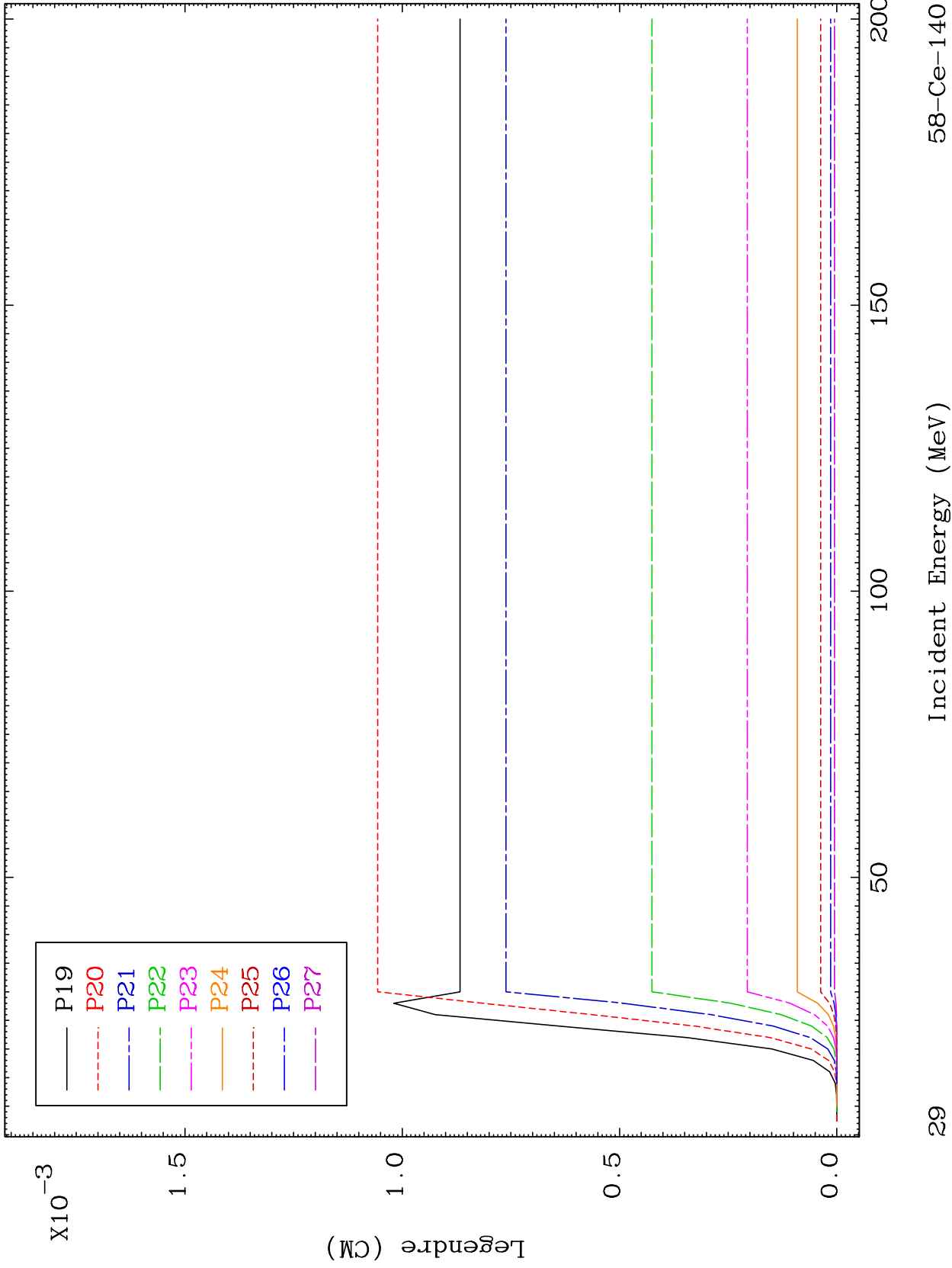
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

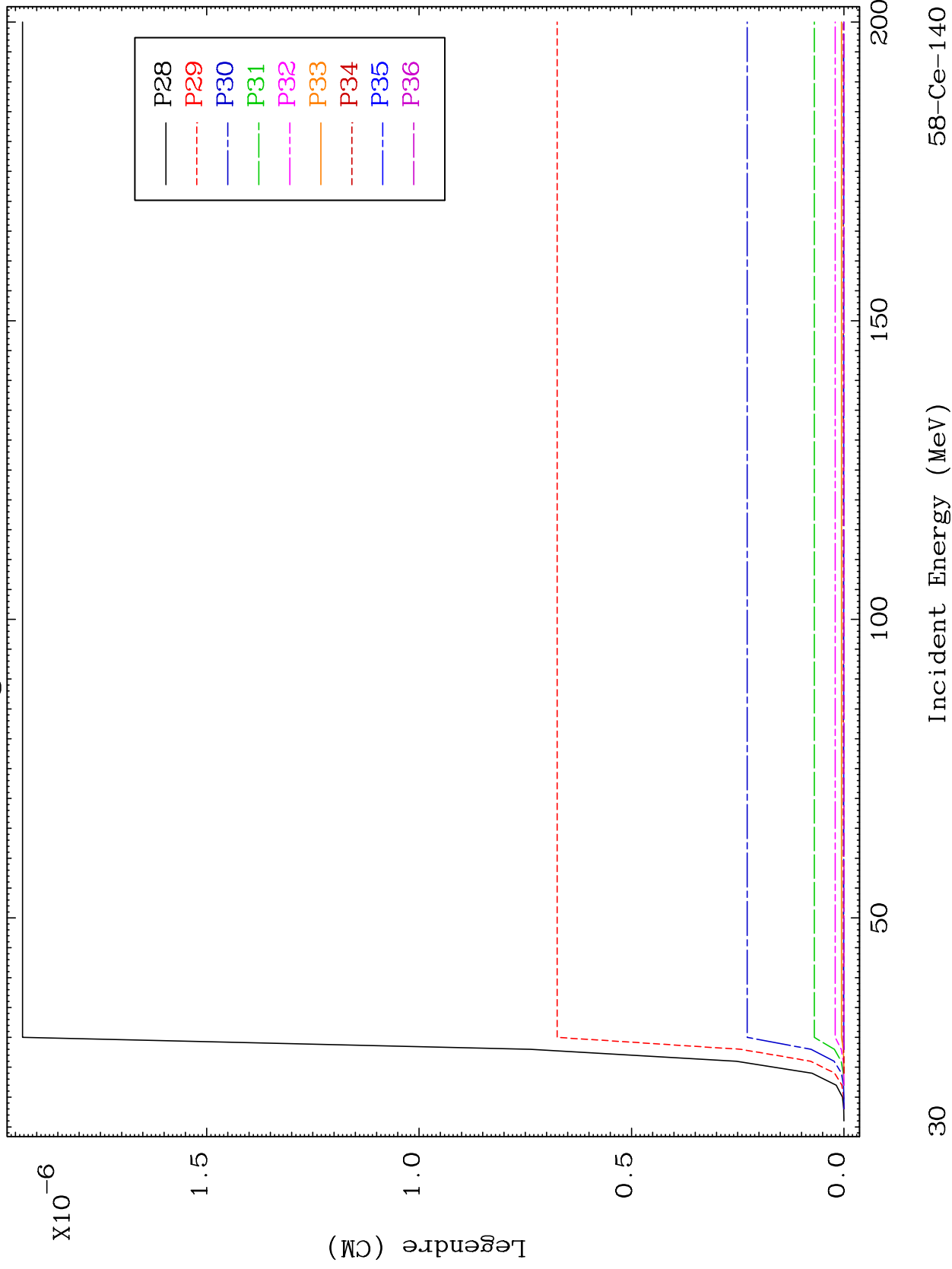
58-Ce-140



MAT 5837

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

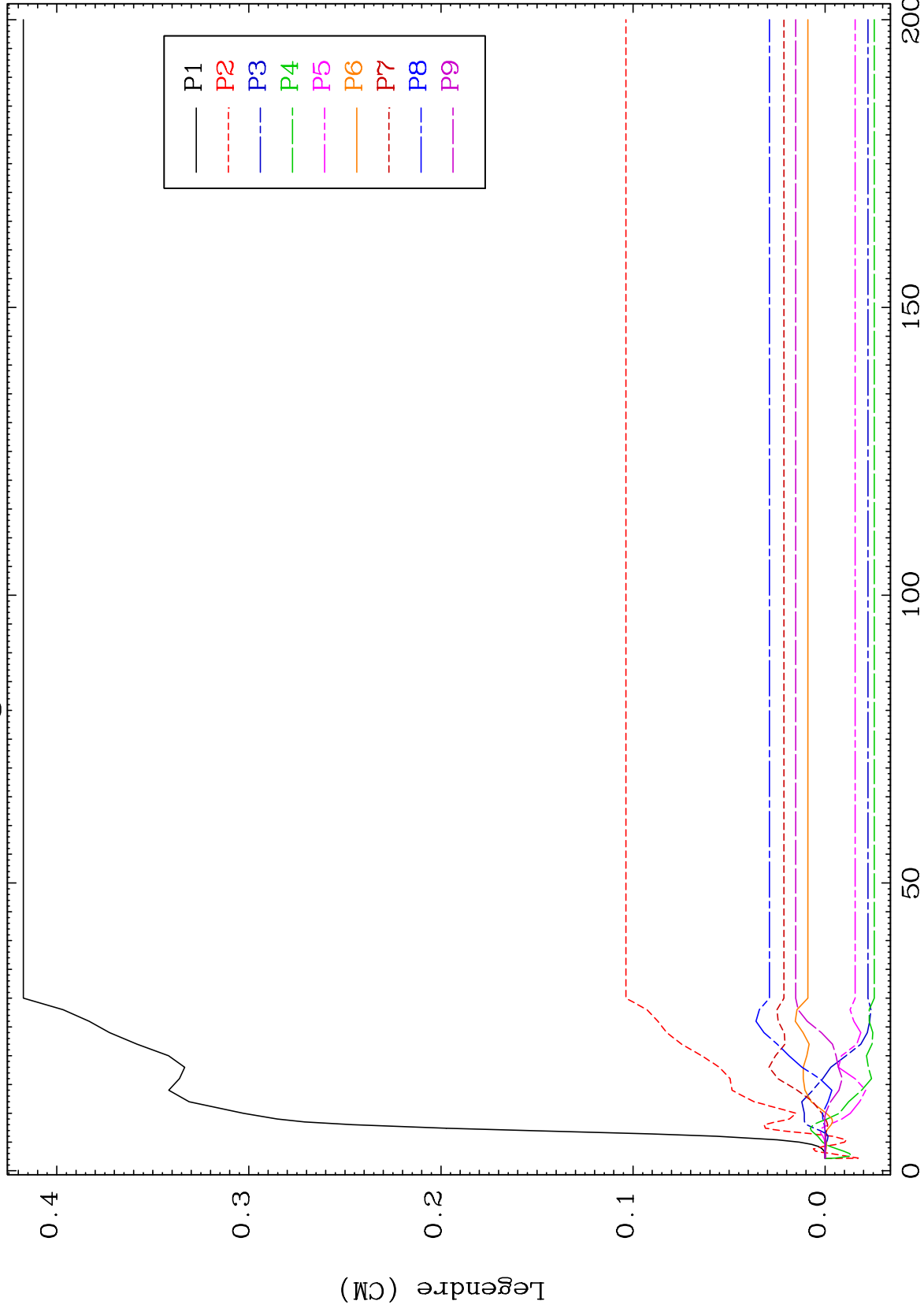
58-Ce-140



MAT 5837

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

58-Ce-140



31

Incident Energy (MeV)

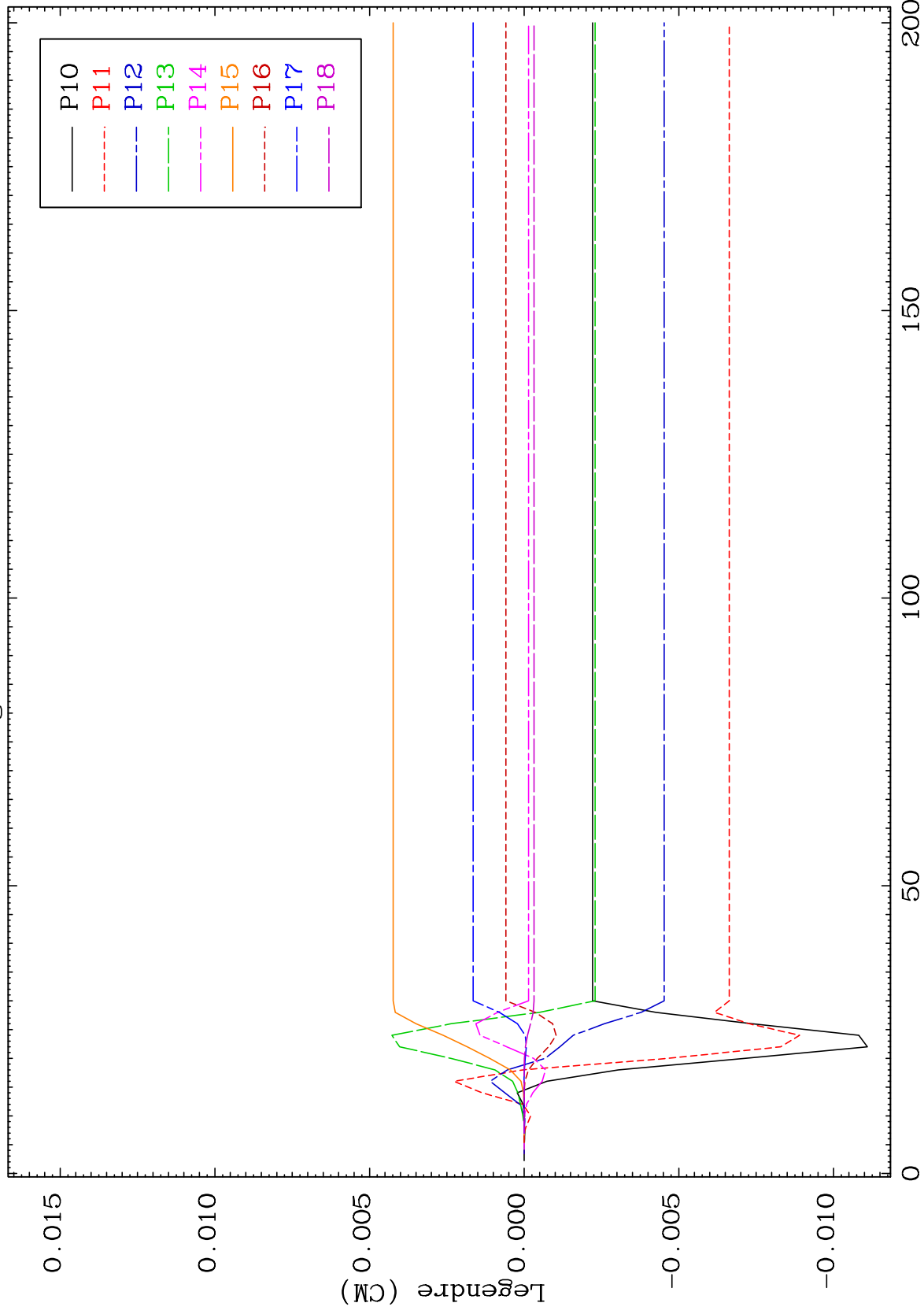
58-Ce-140



MAT 5837

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

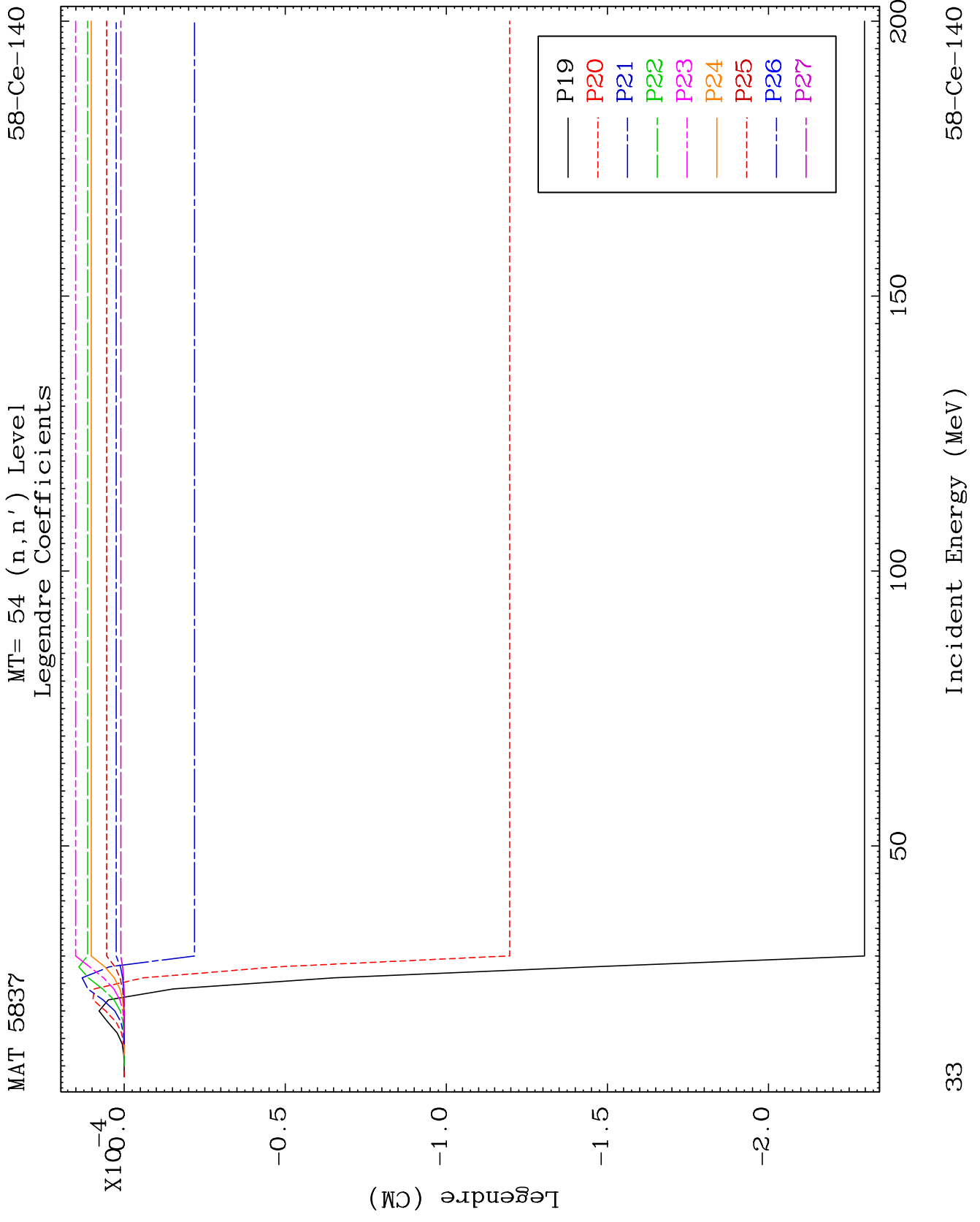
58-Ce-140



32

Incident Energy (MeV)

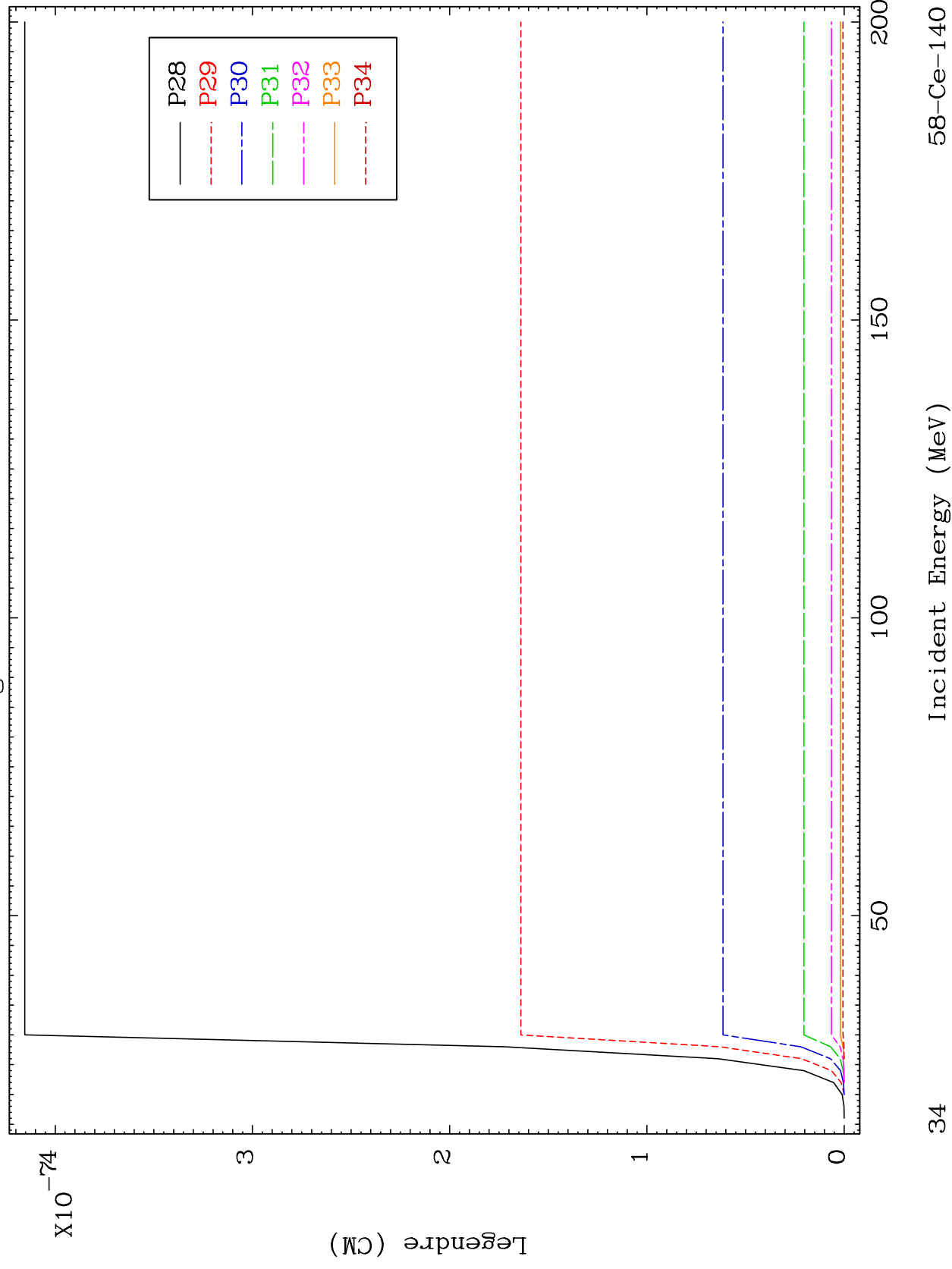
58-Ce-140



MAT 5837

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

58-Ce-140



34

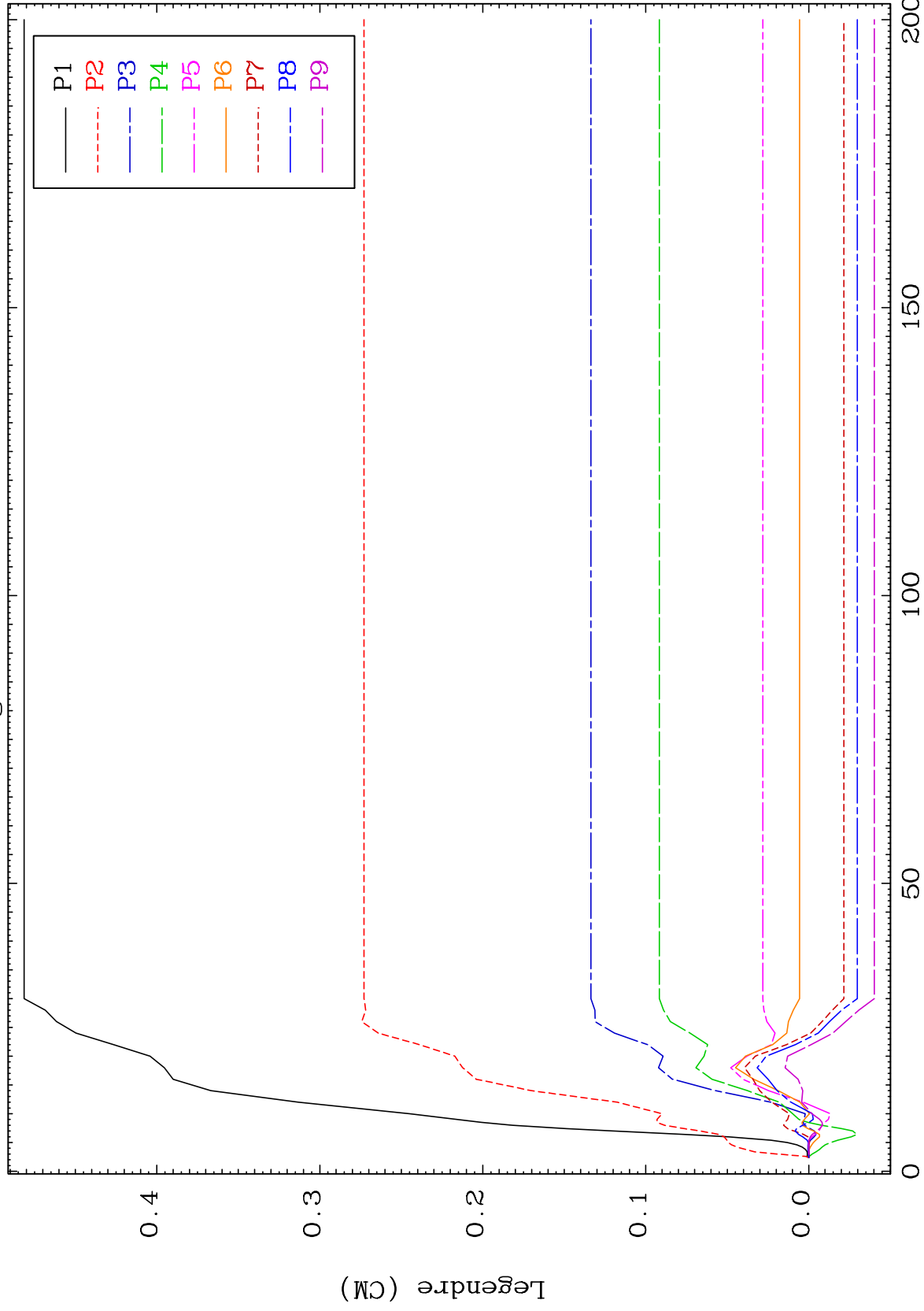
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



58-Ce-140

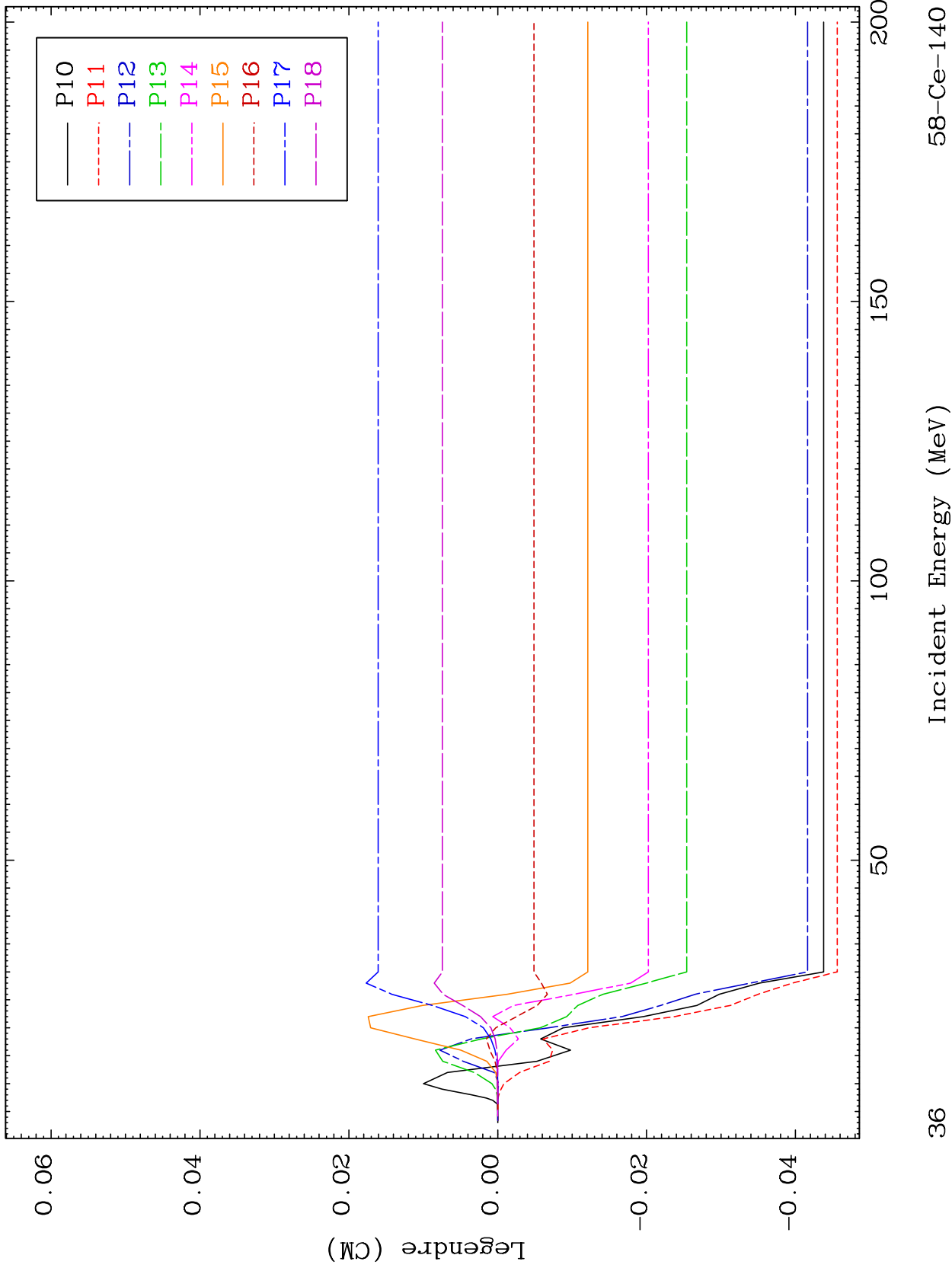
Incident Energy (MeV)

35

MAT 5837

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

58-Ce-140



36

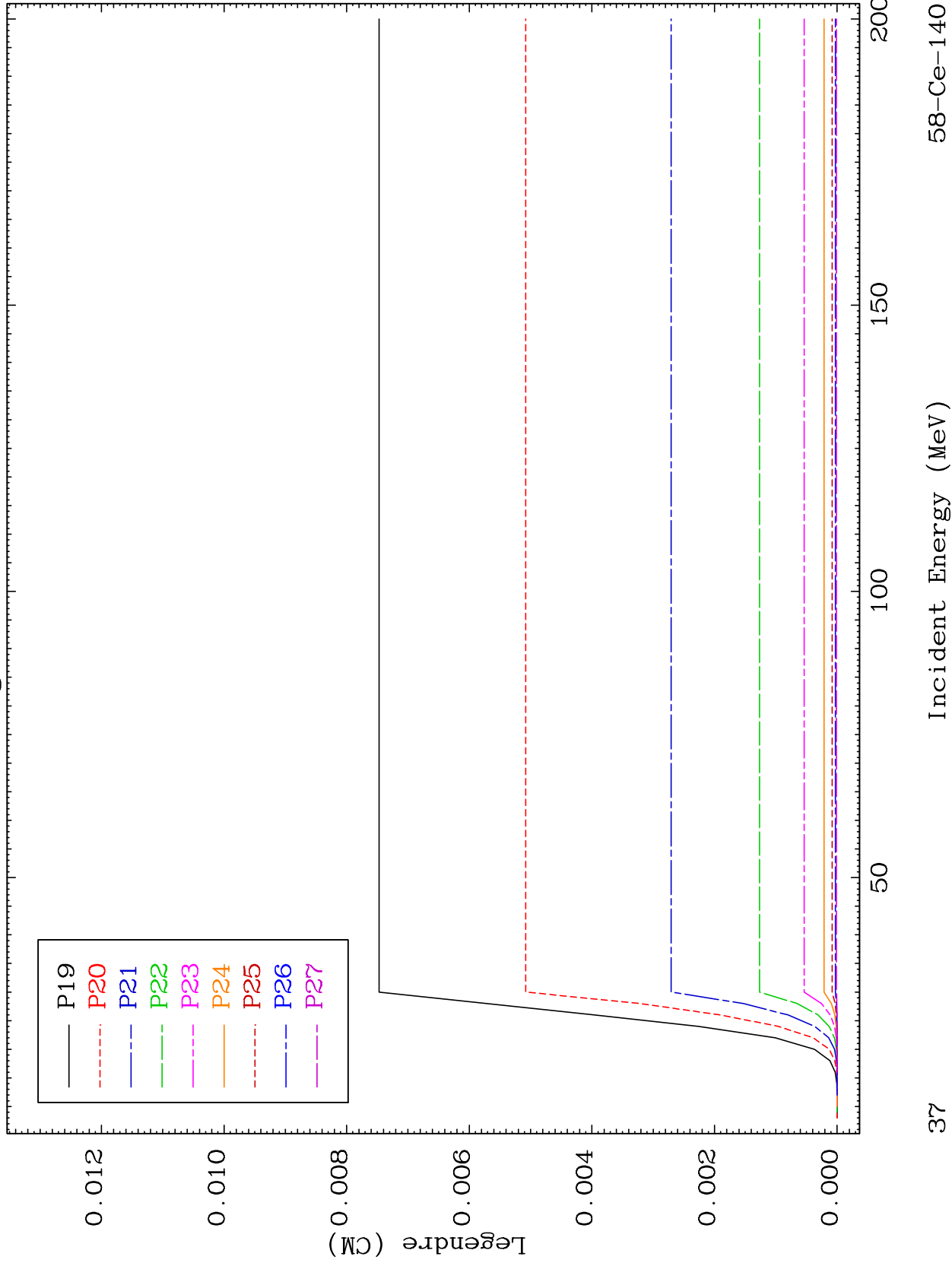
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



37

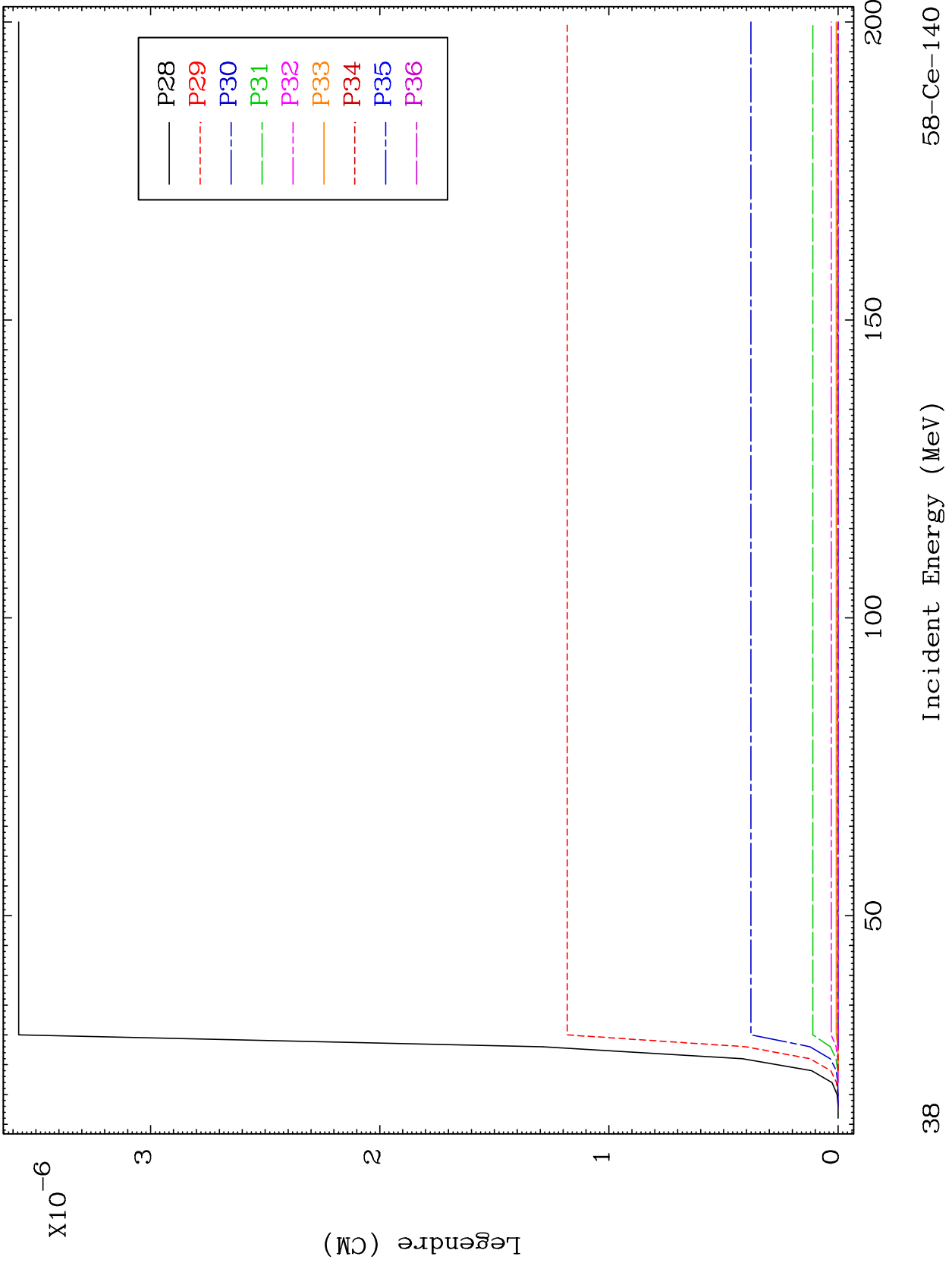
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



38

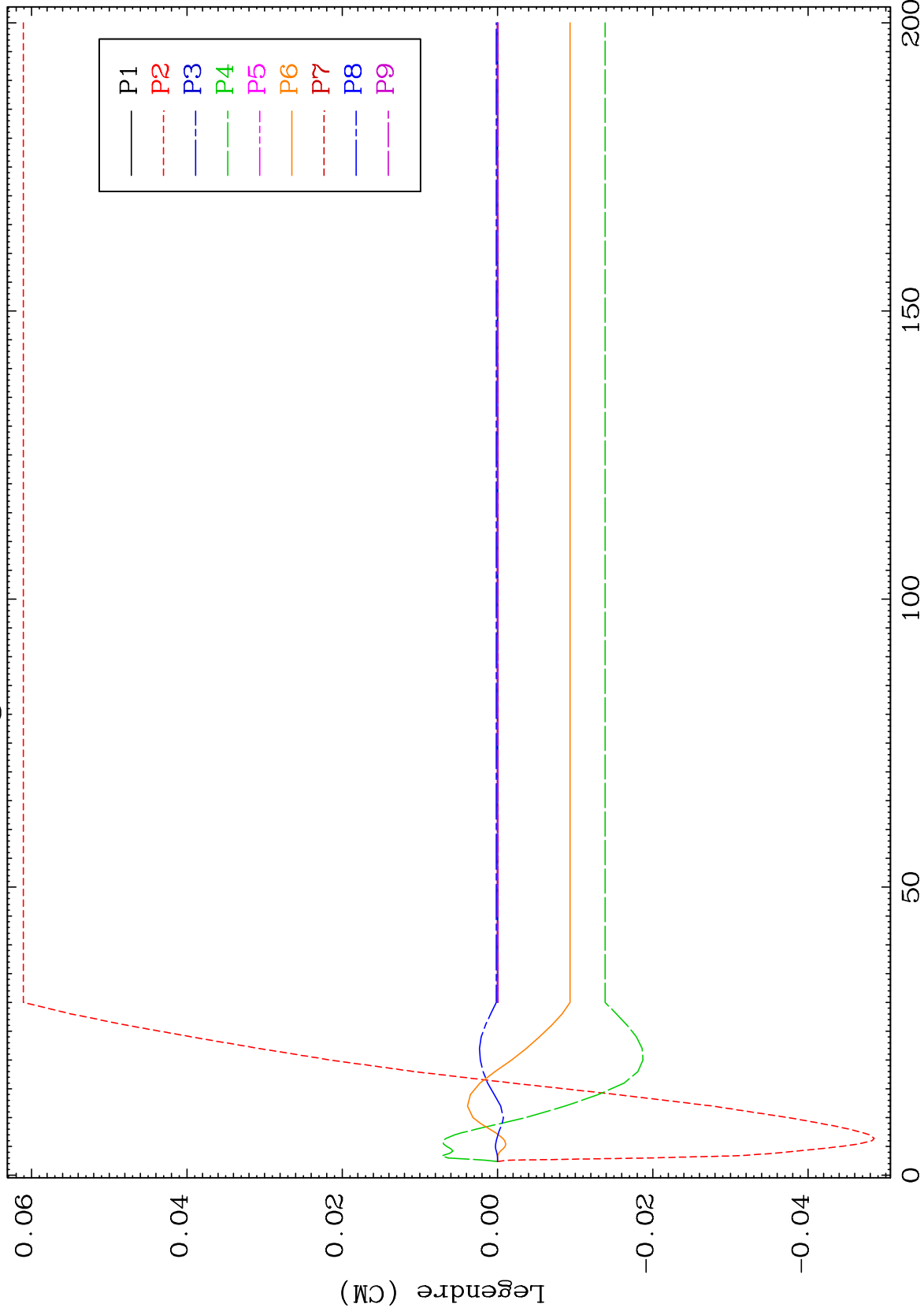
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



39

Incident Energy (MeV)

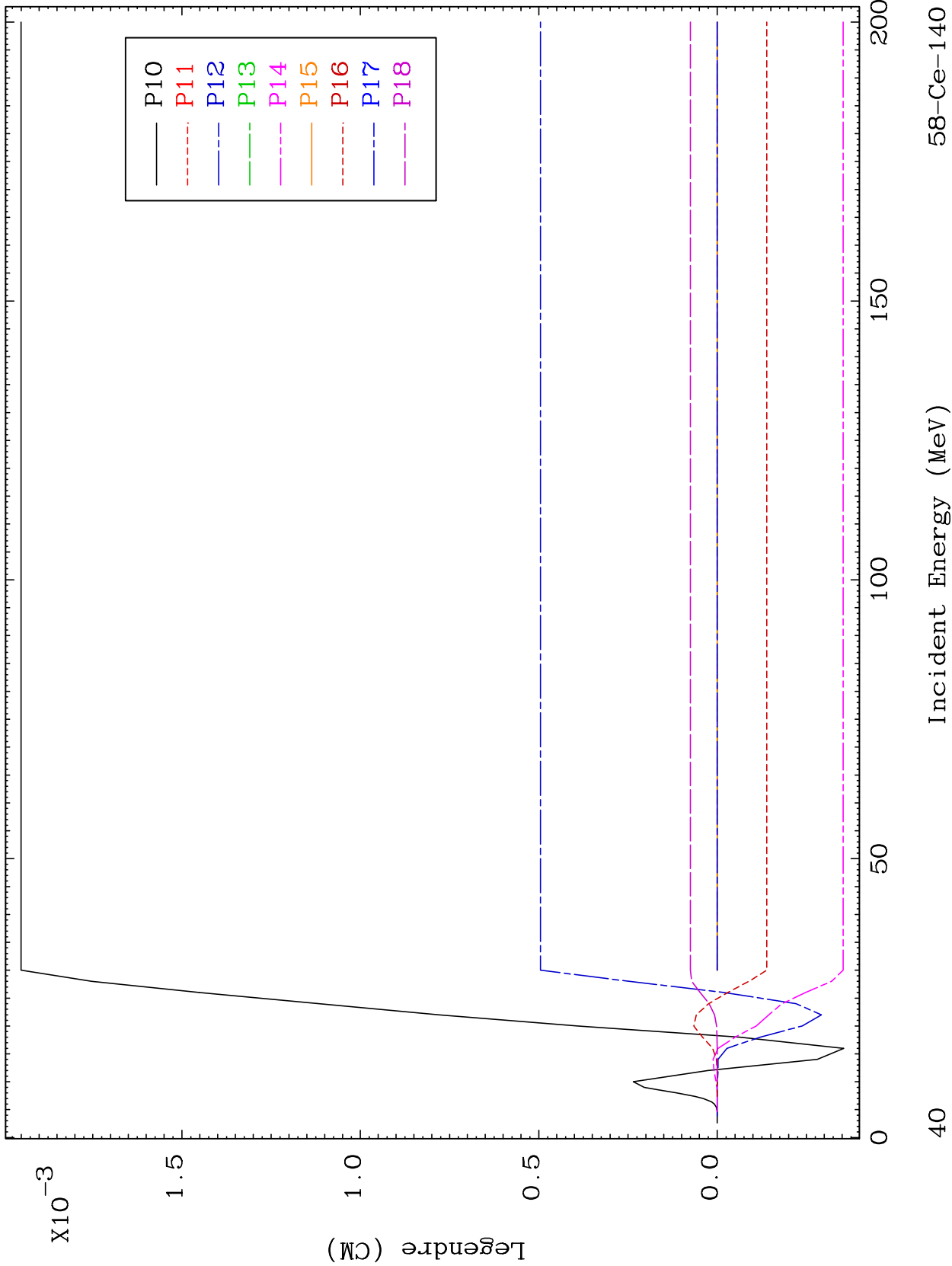
58-Ce-140



MAT 5837

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

58-Ce-140

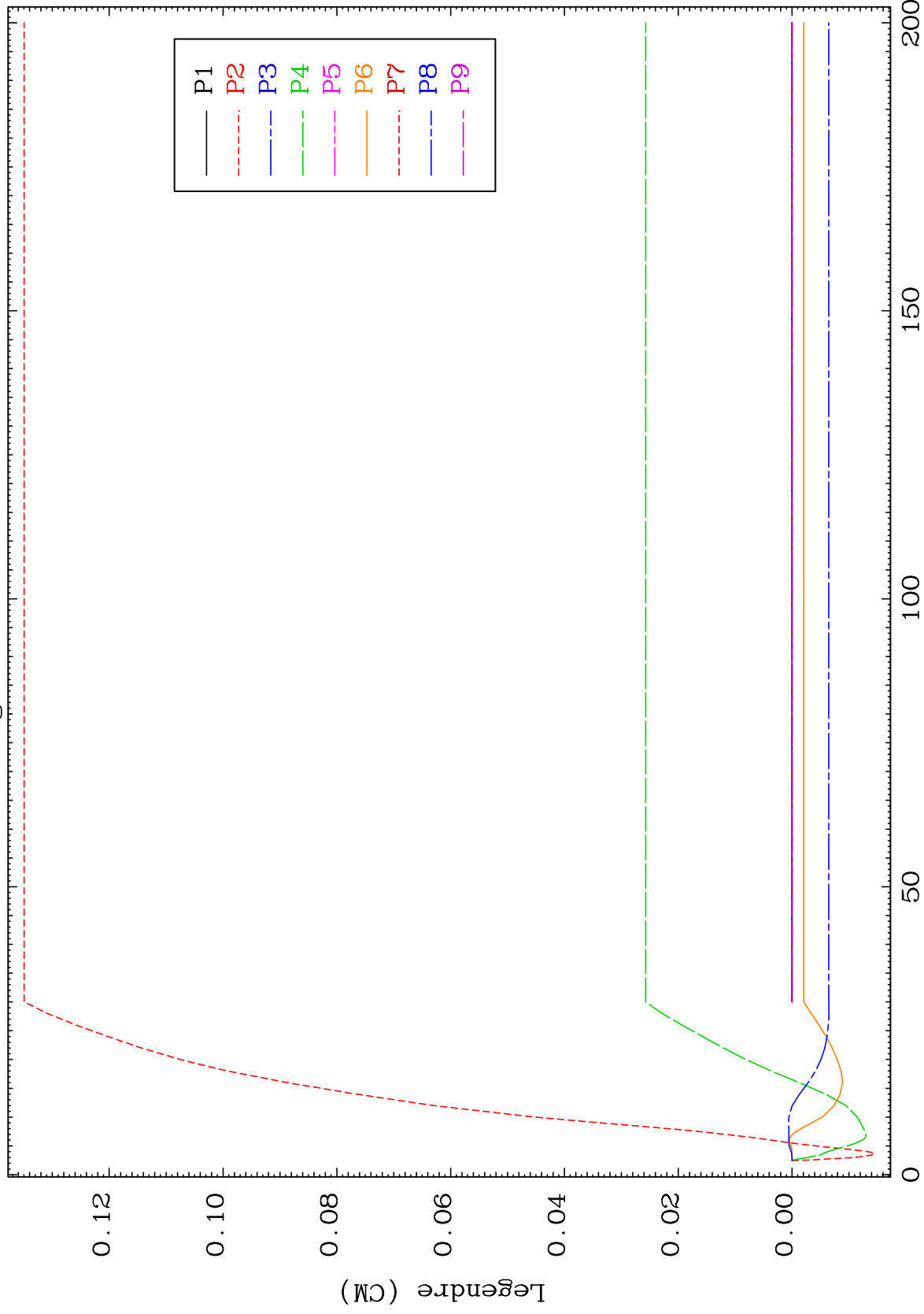




MAT 5837

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

58-Ce-140



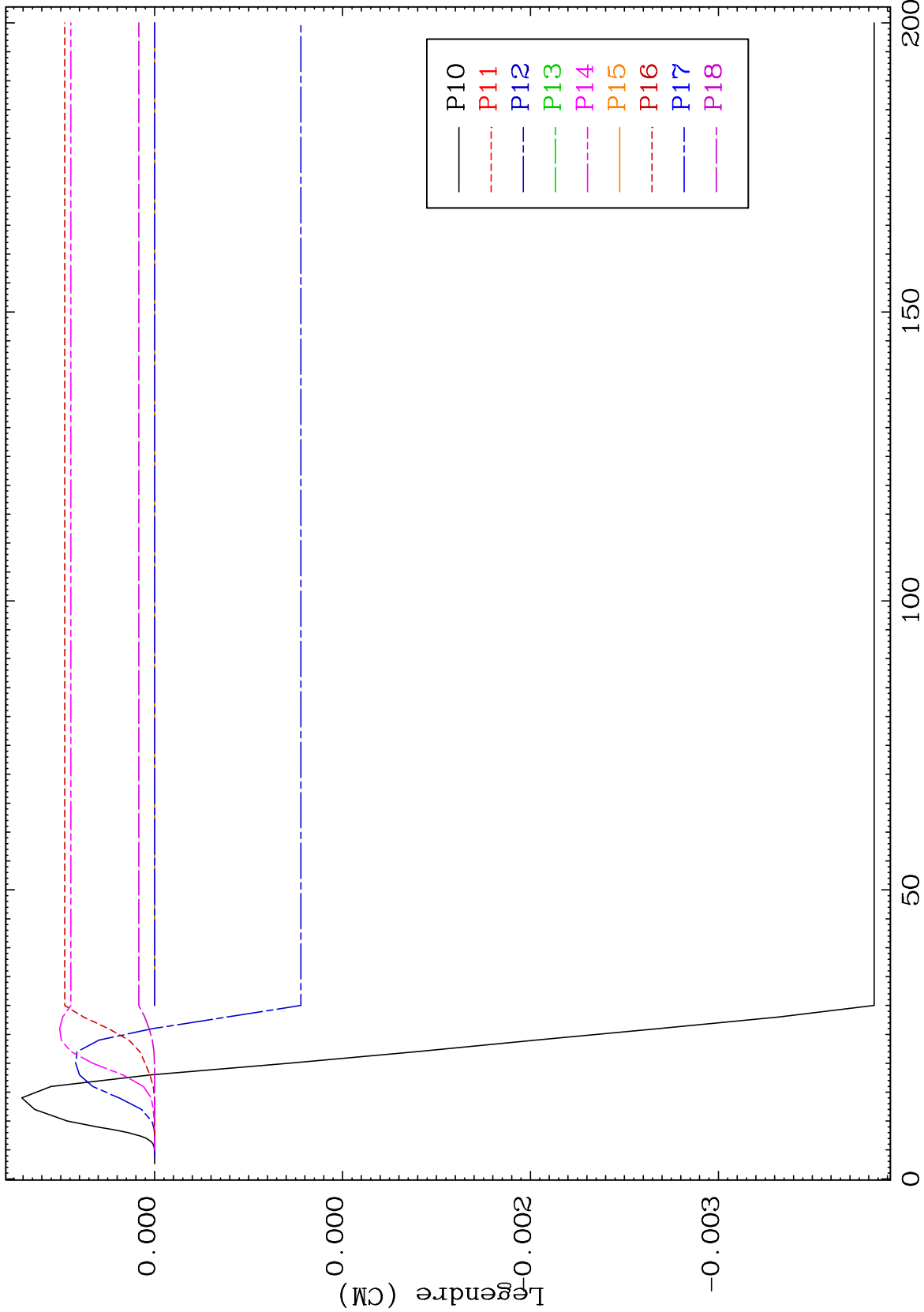
42

58-Ce-140

MAT 5837

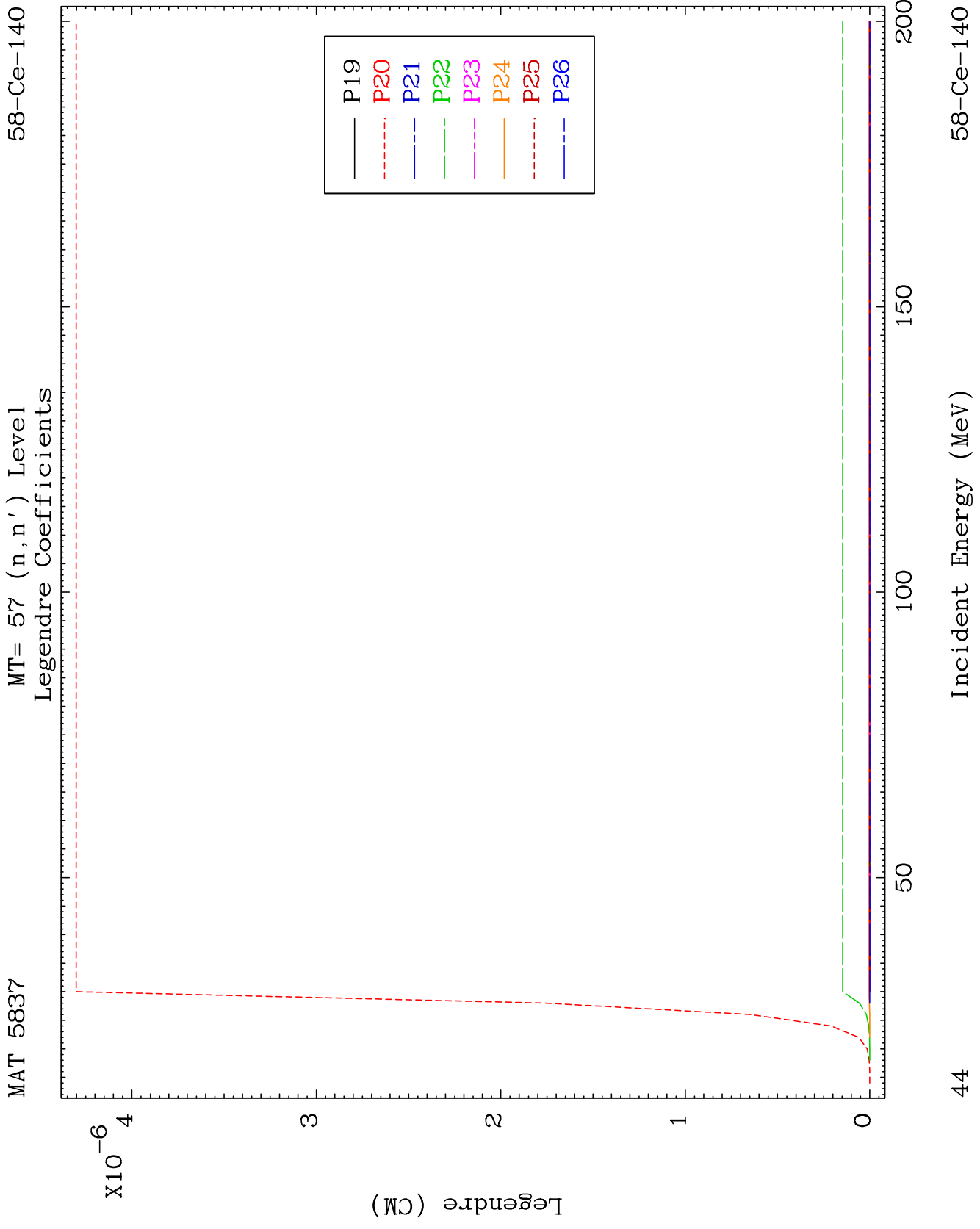
MT= 57 (n,n') Level  
Legendre Coefficients

58-Ce-140



43

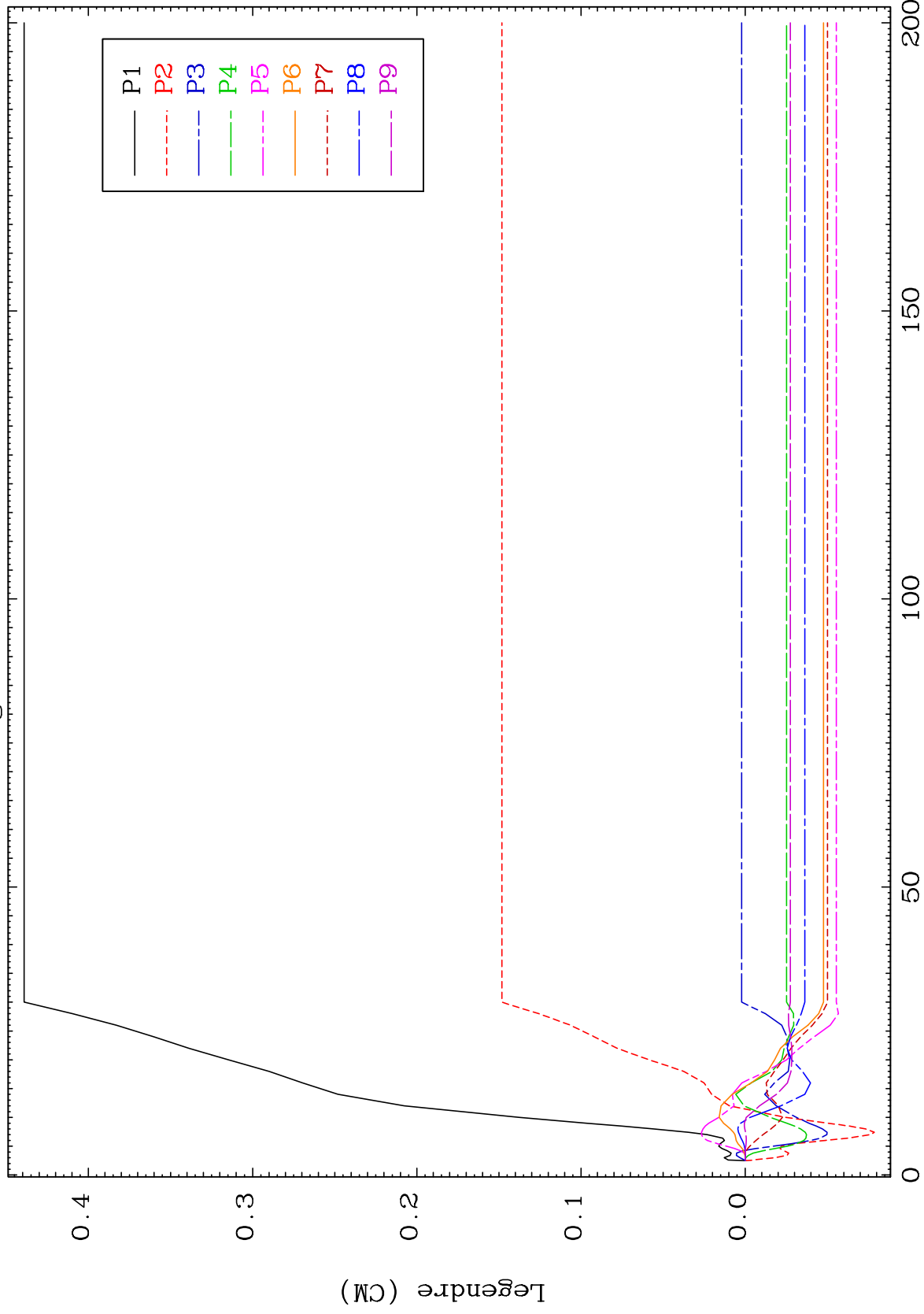
58-Ce-140



MAT 5837

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

58-Ce-140



58-Ce-140

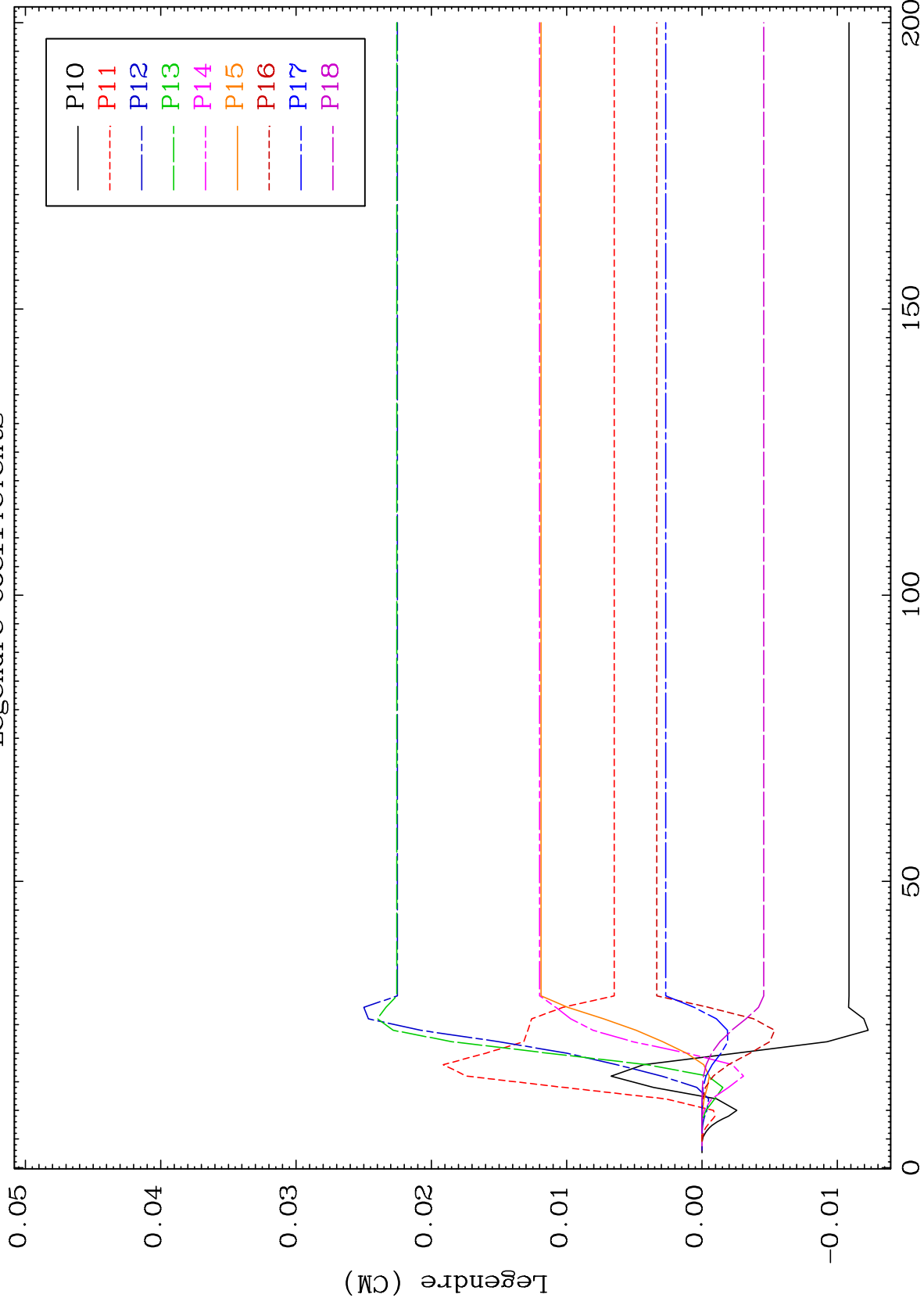
Incident Energy (MeV)

45

MAT 5837

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

58-Ce-140



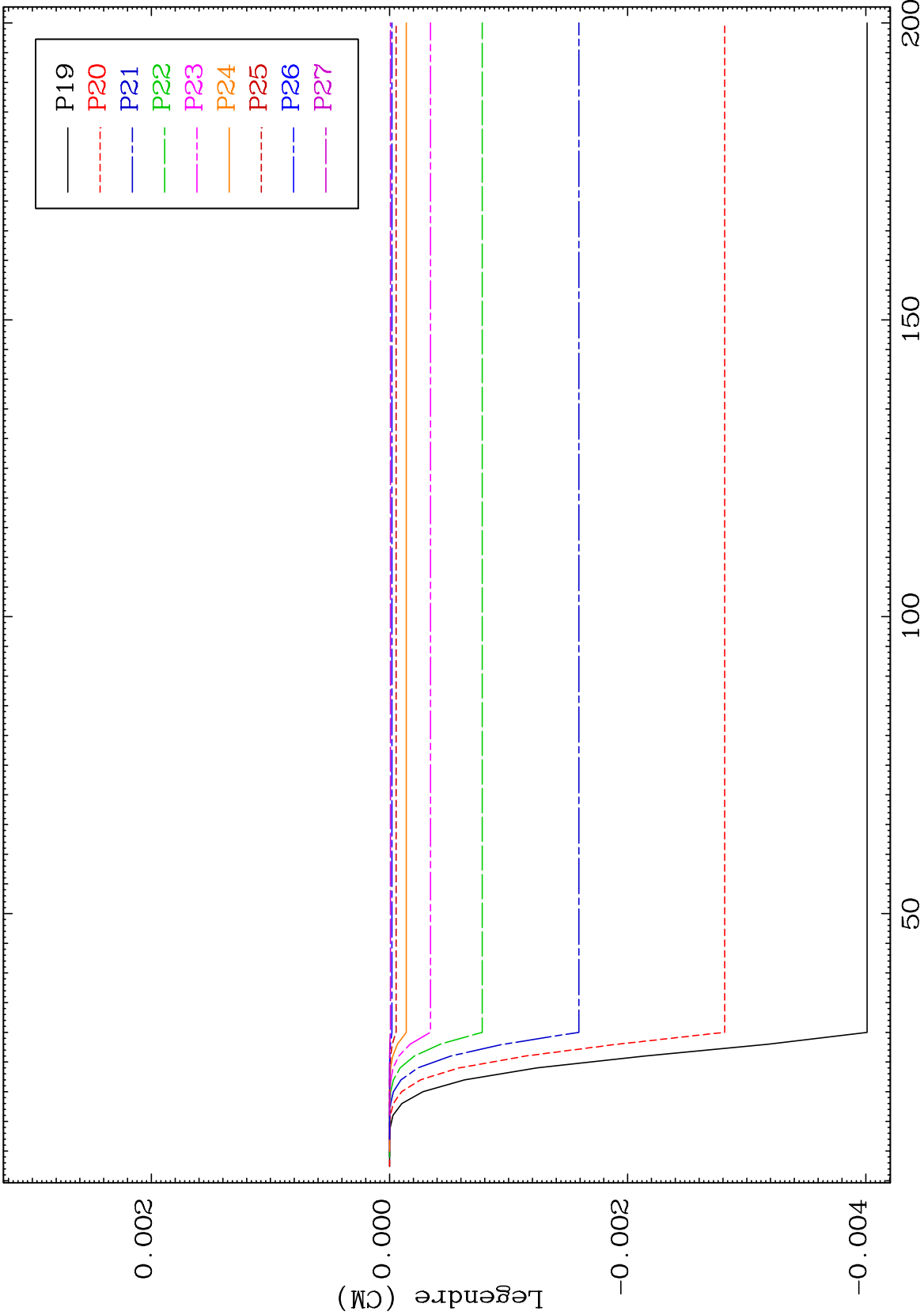
46

58-Ce-140

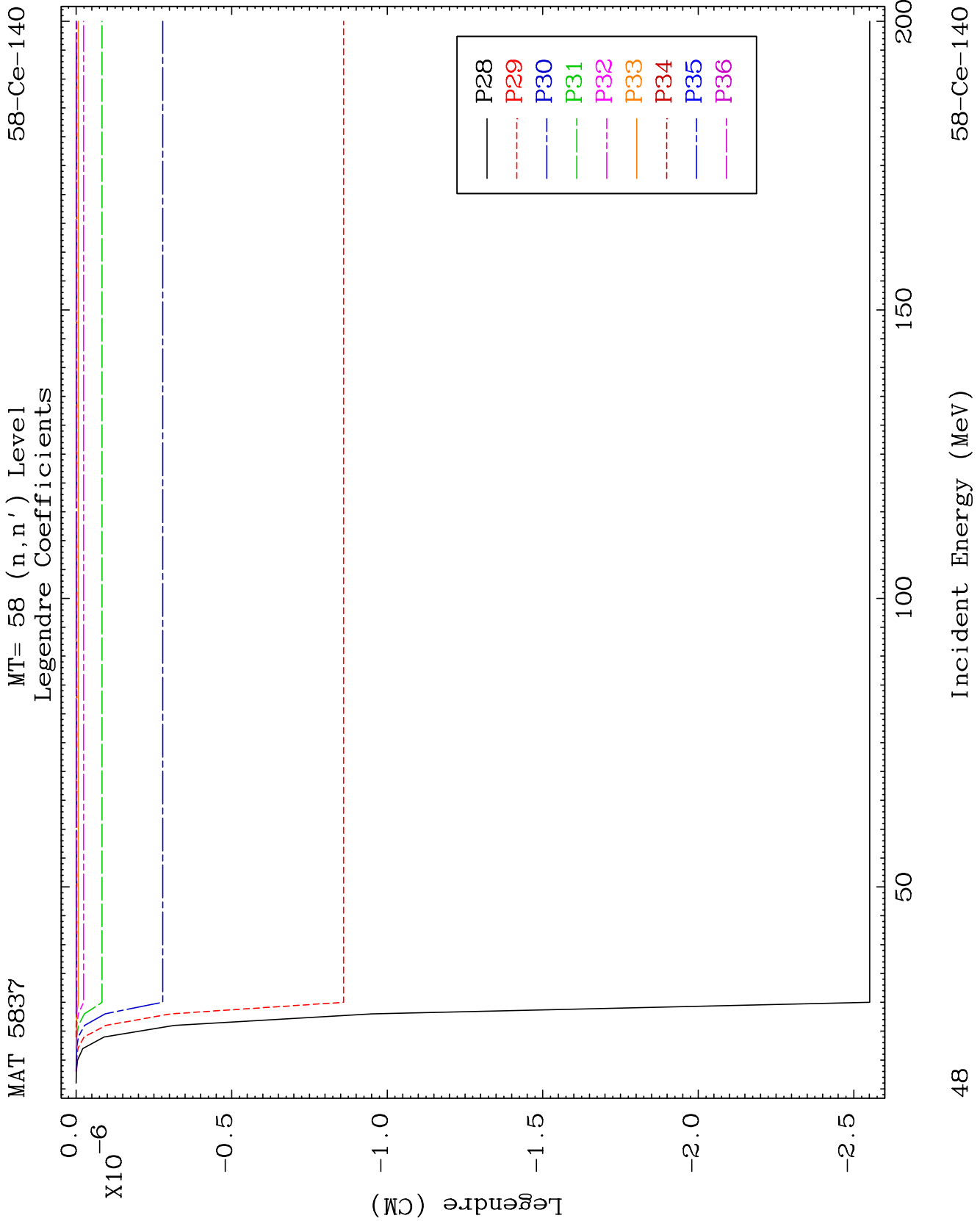
MAT 5837

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

58-Ce-140



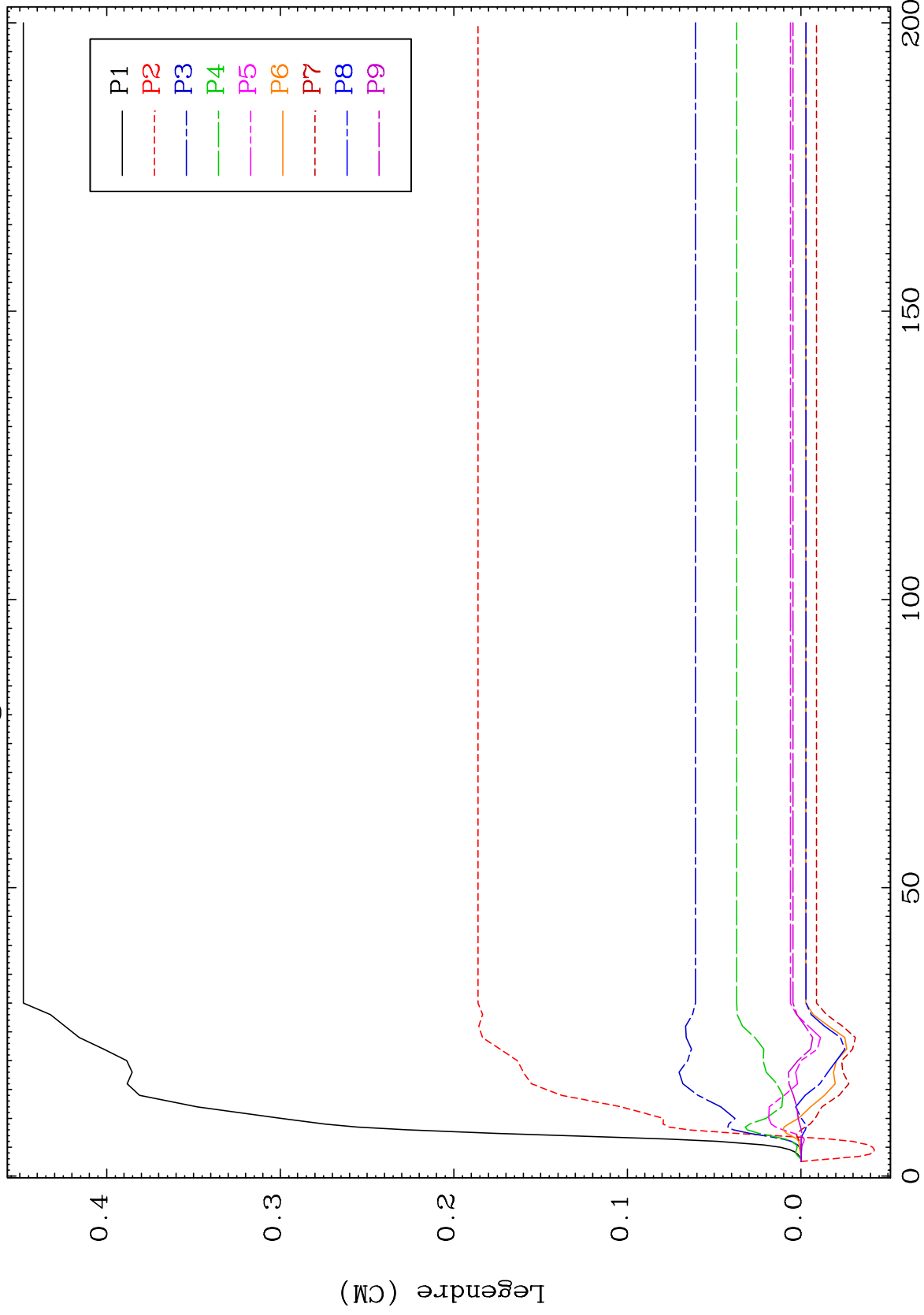




MAT 5837

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

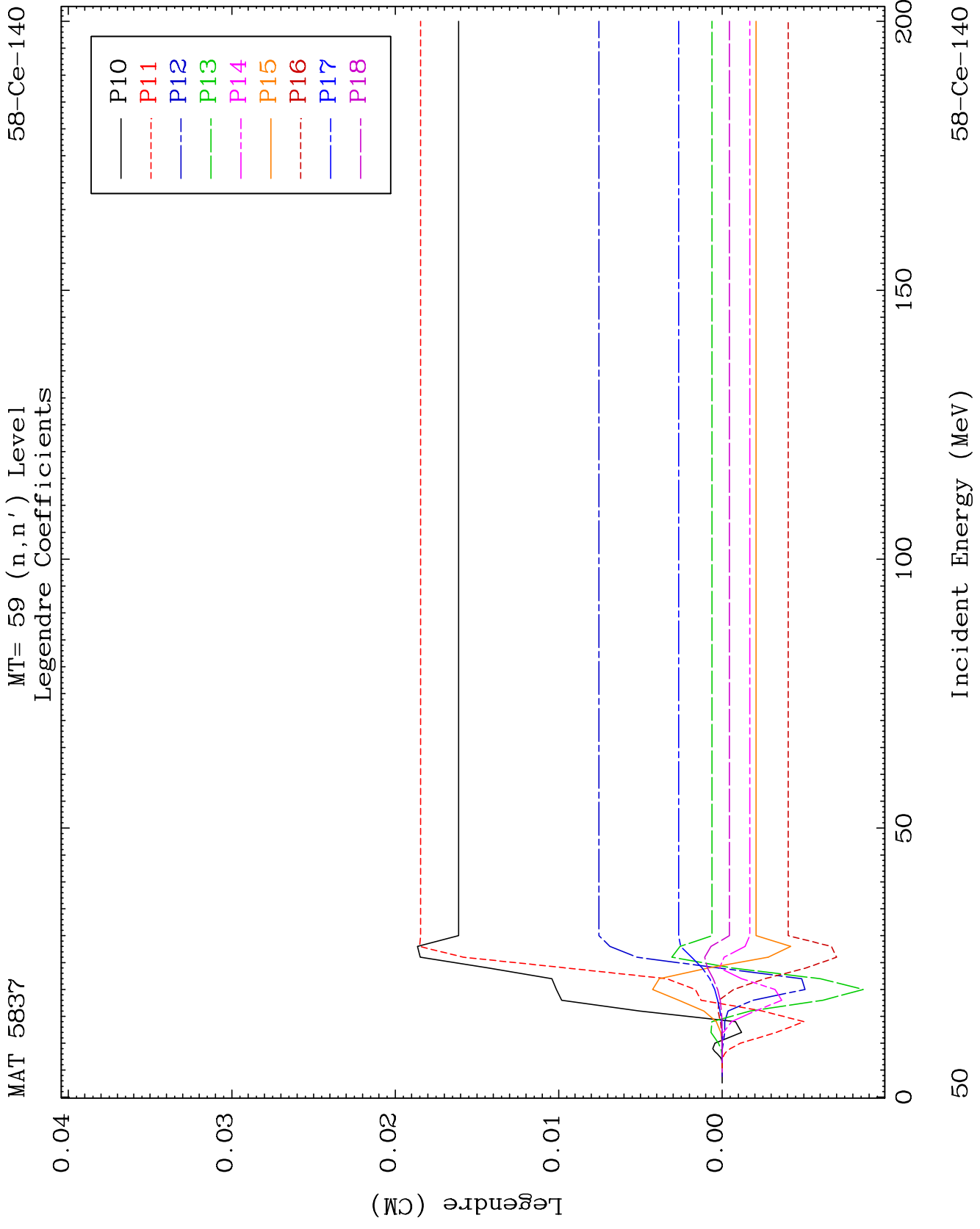
58-Ce-140



49

Incident Energy (MeV)

58-Ce-140

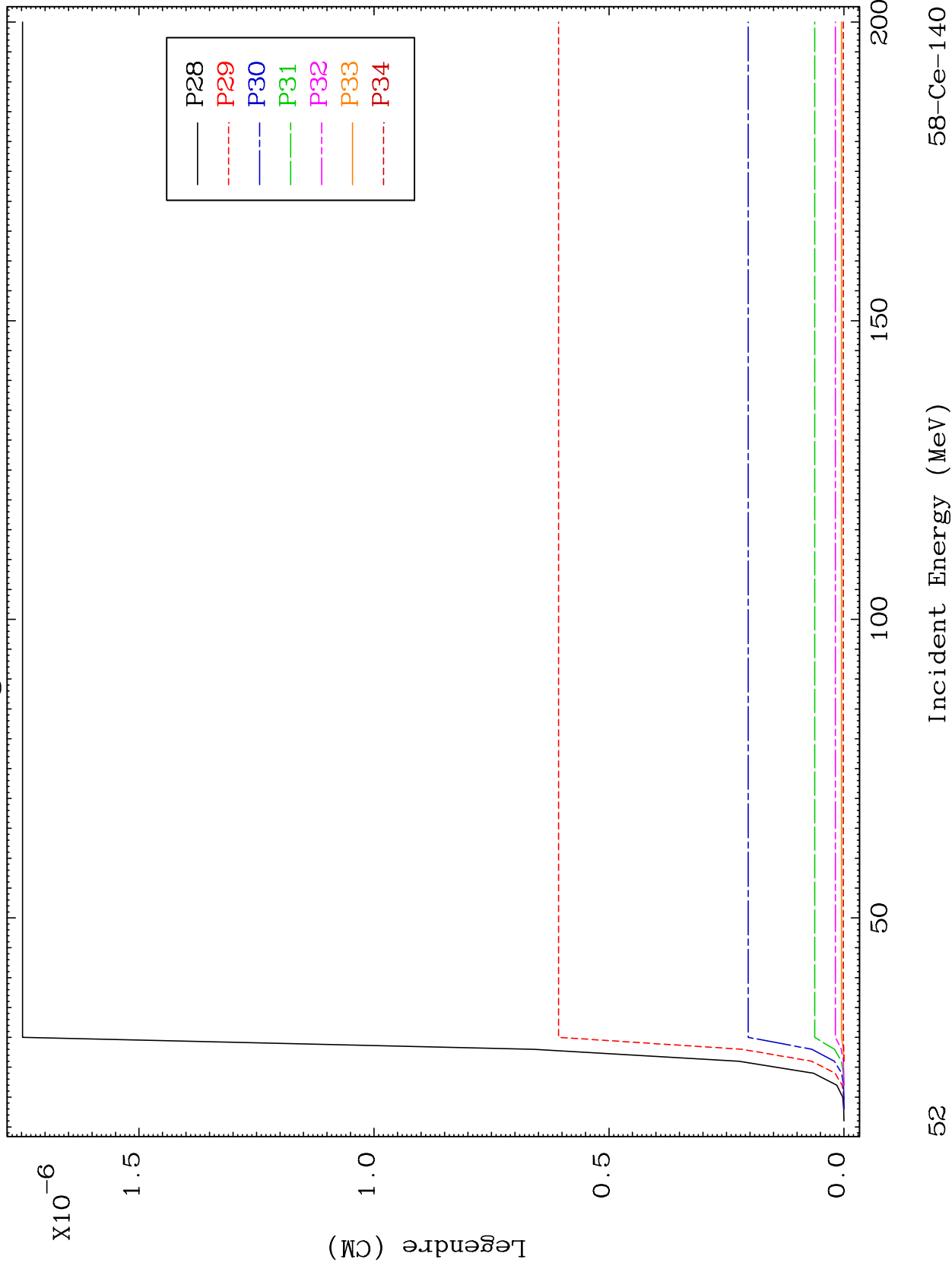




MAT 5837

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

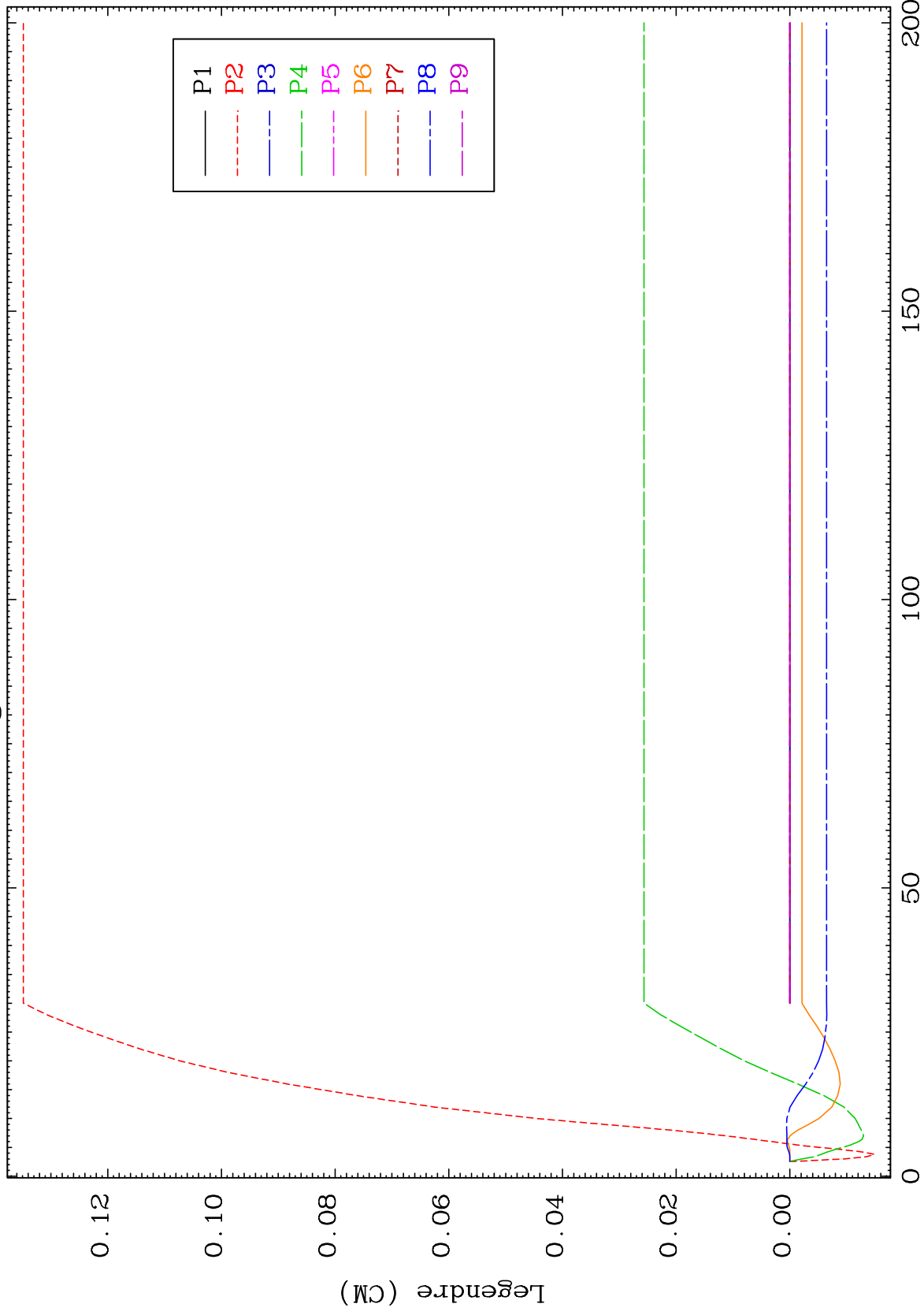
58-Ce-140



MAT 5837

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

58-Ce-140



58-Ce-140

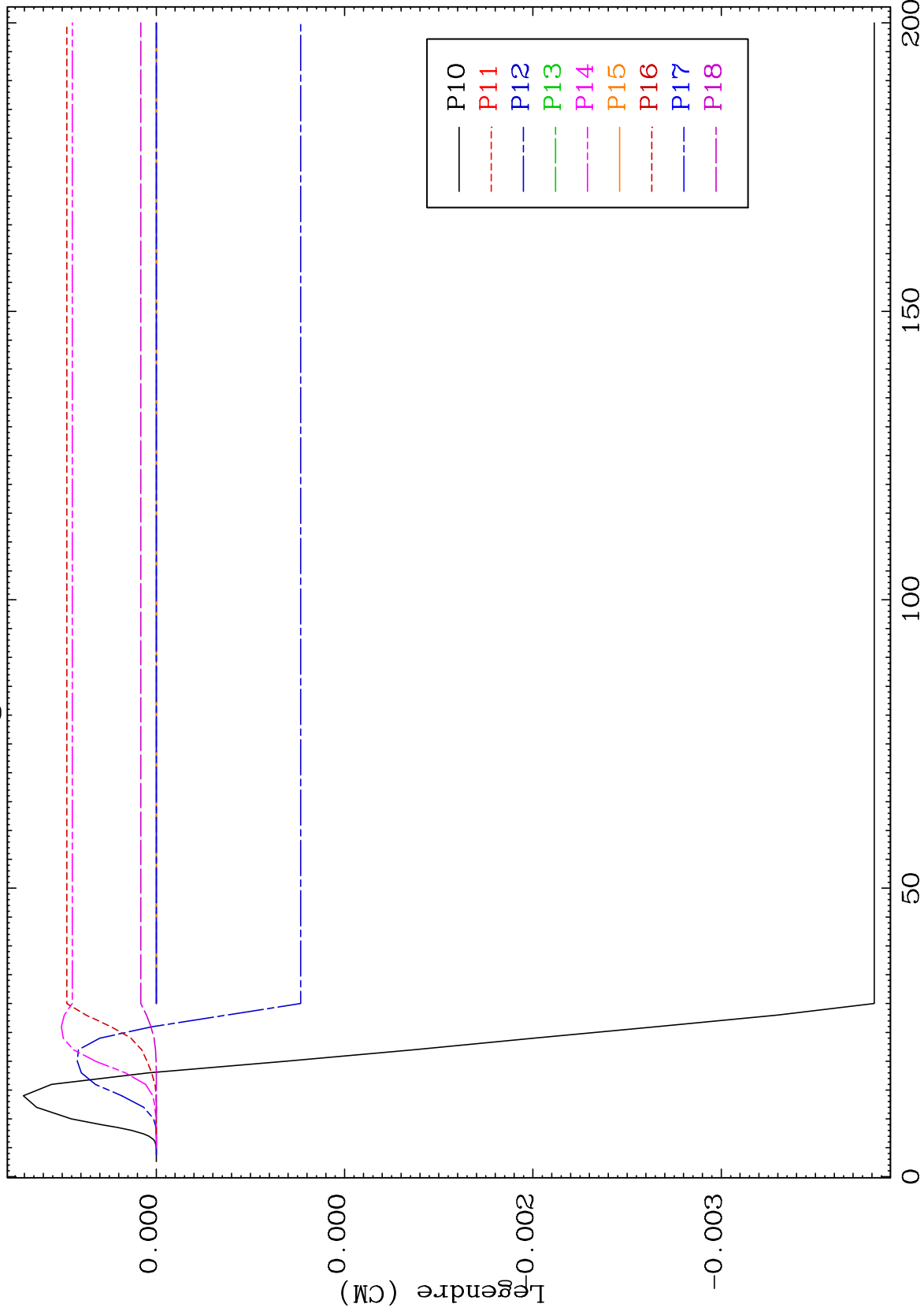
Incident Energy (MeV)

53

MAT 5837

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

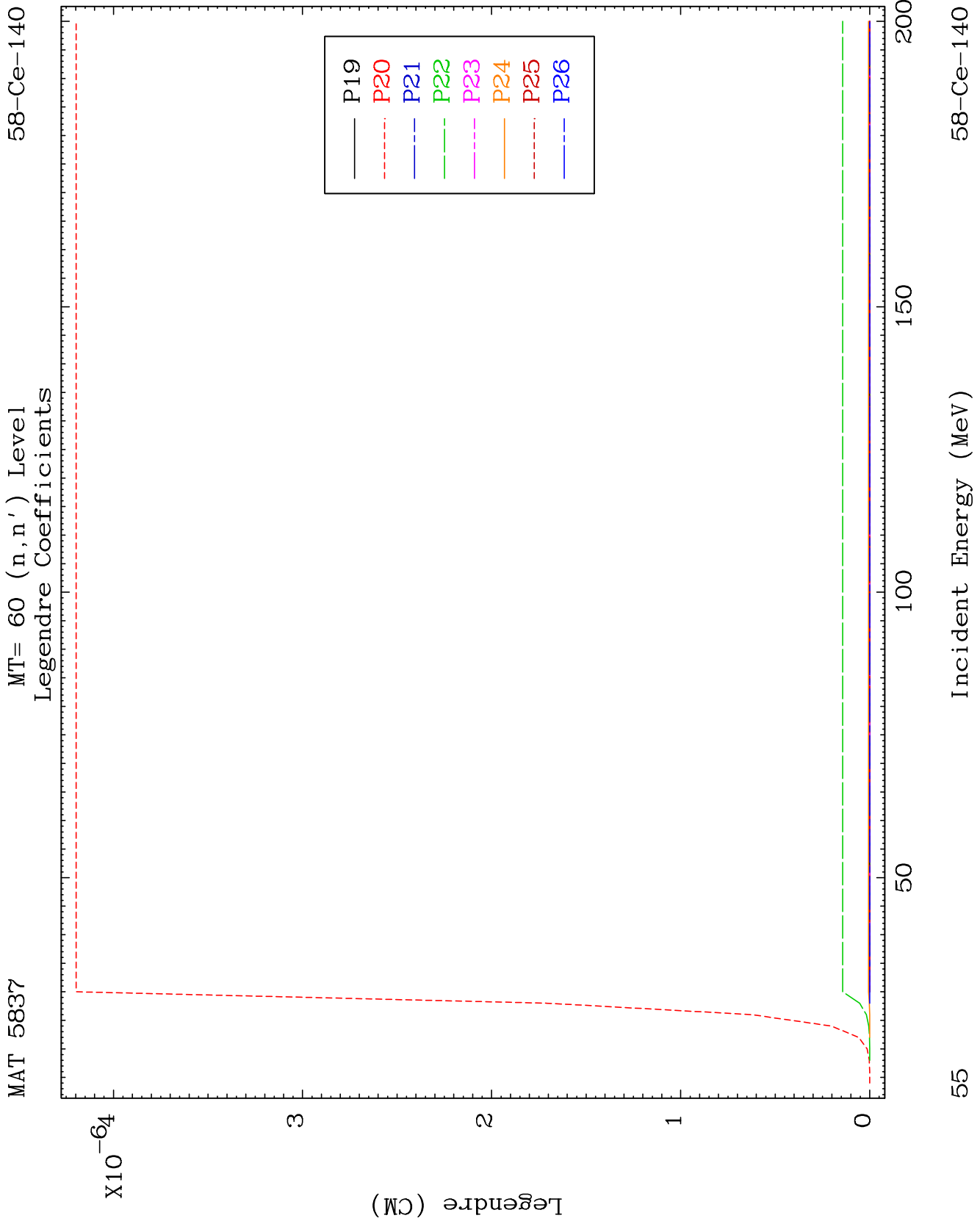
58-Ce-140



54

Incident Energy (MeV)

58-Ce-140

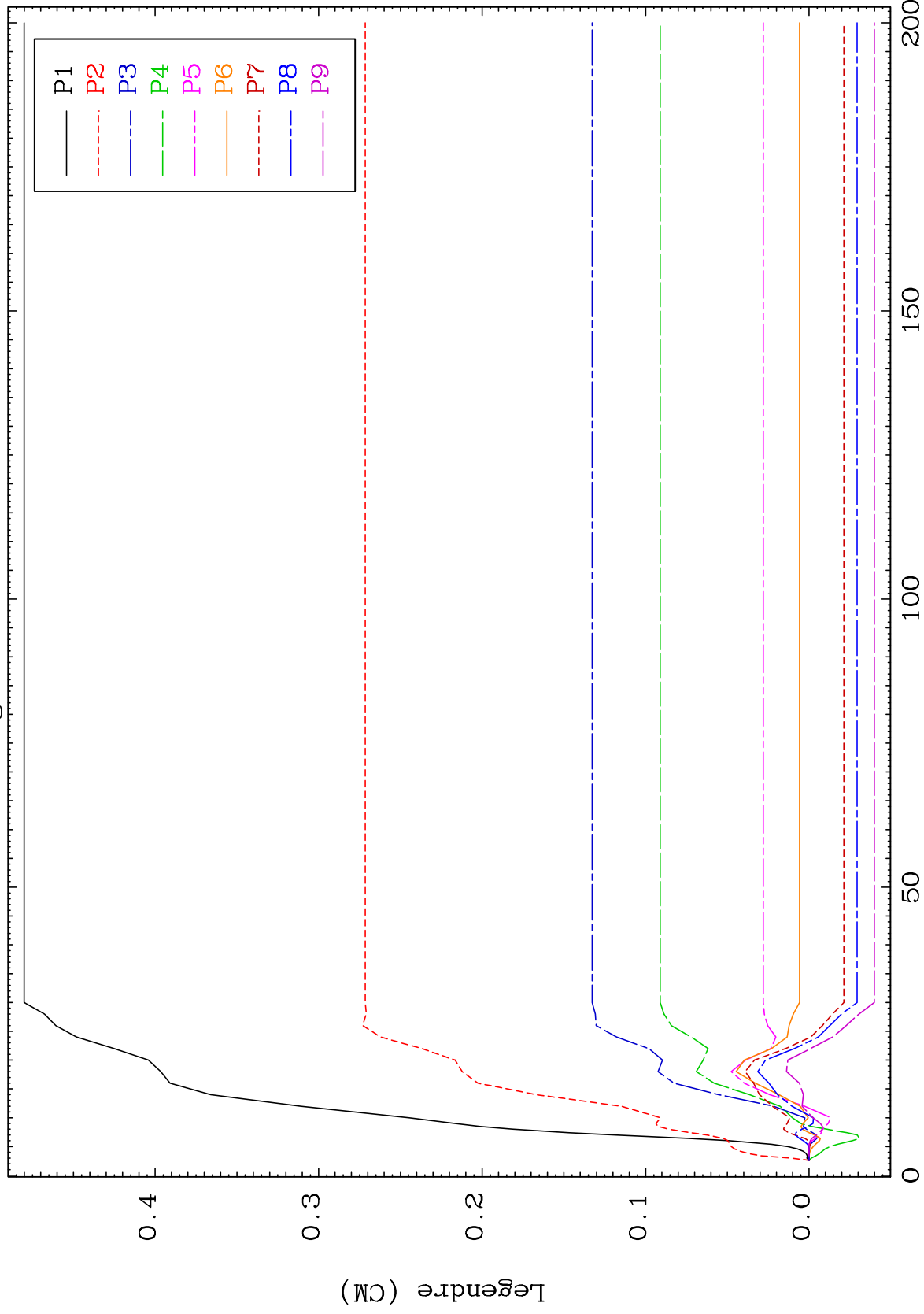




MAT 5837

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

58-Ce-140



56

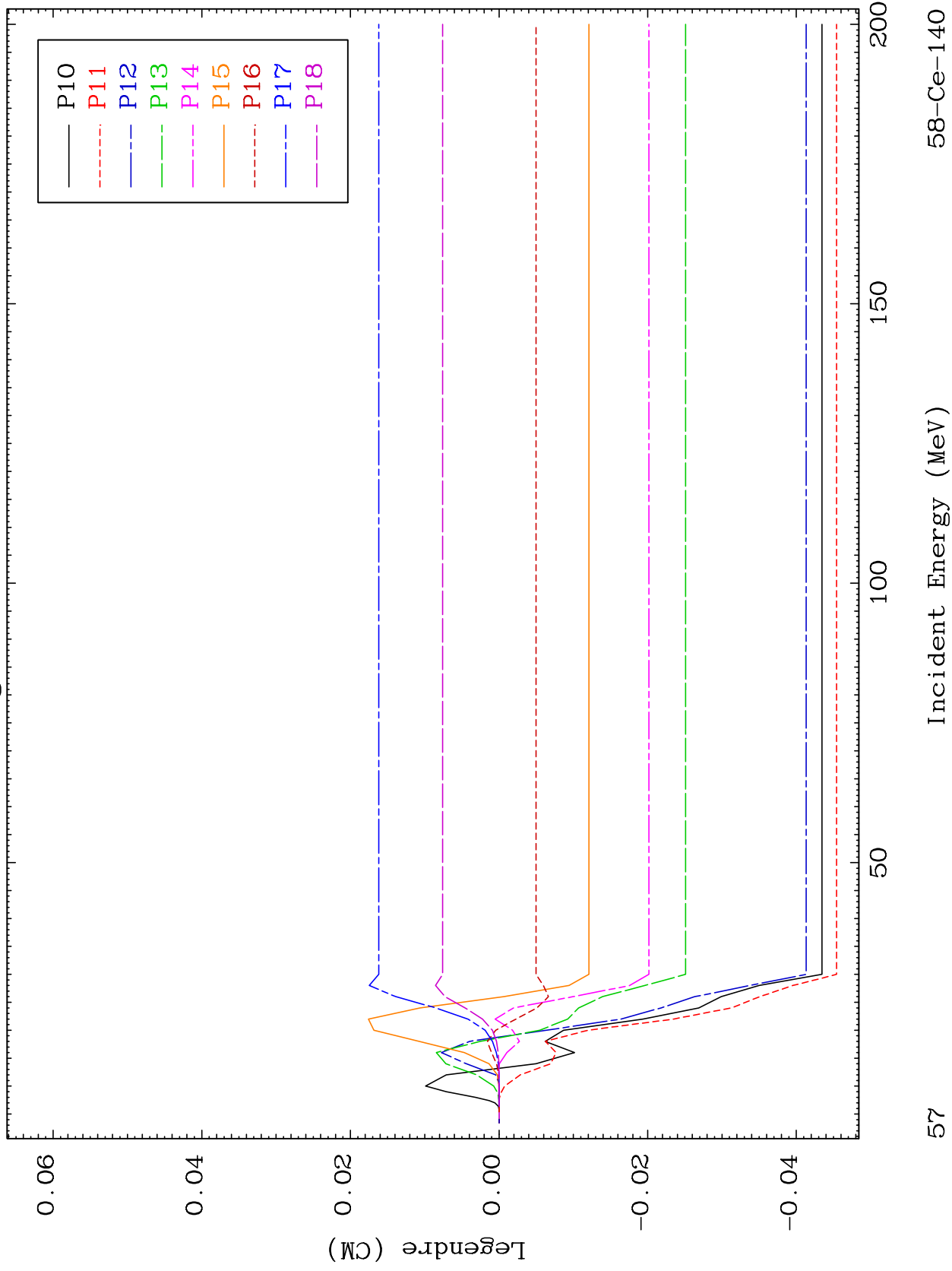
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



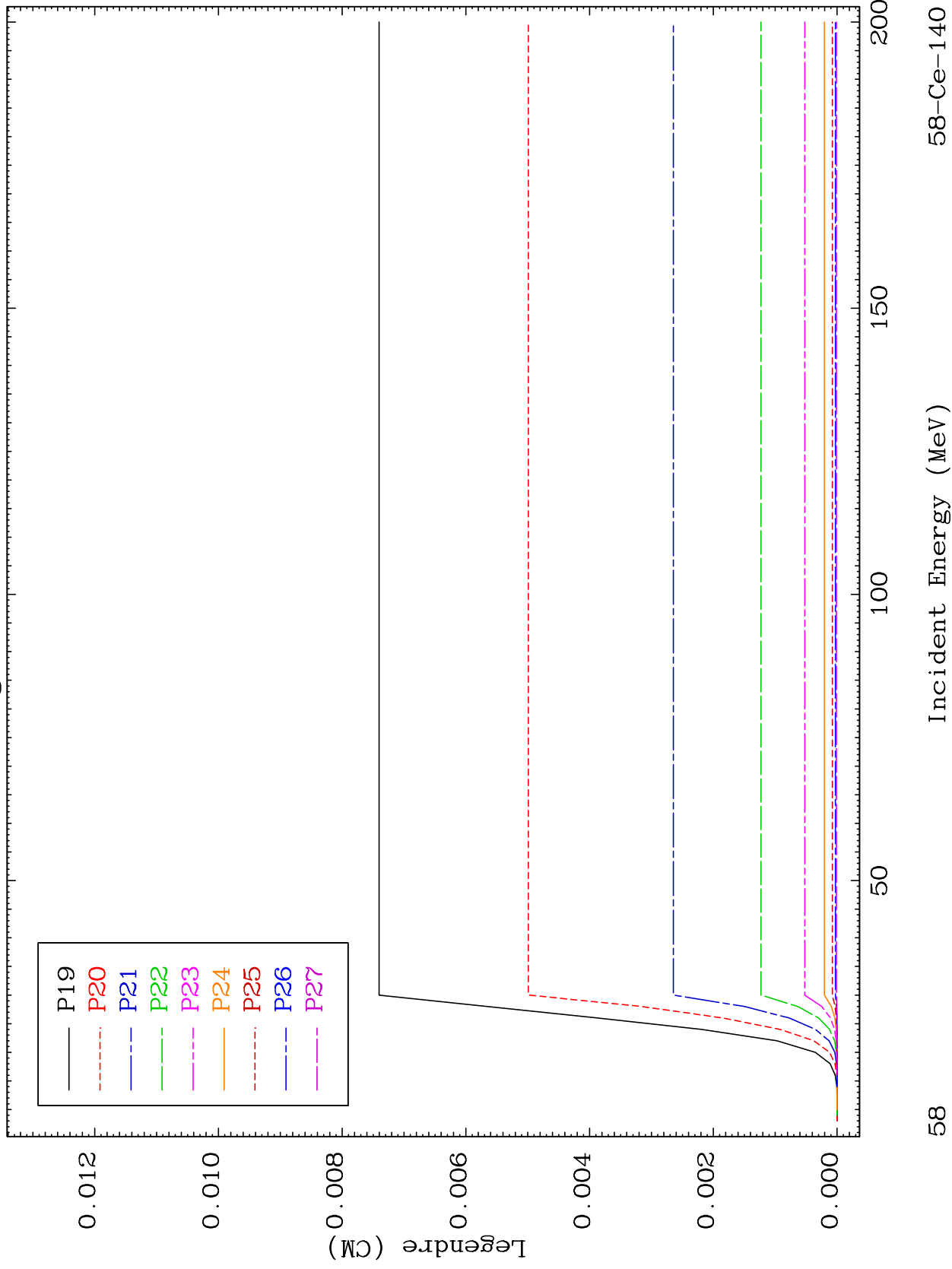
57

58-Ce-140

MAT 5837

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

58-Ce-140



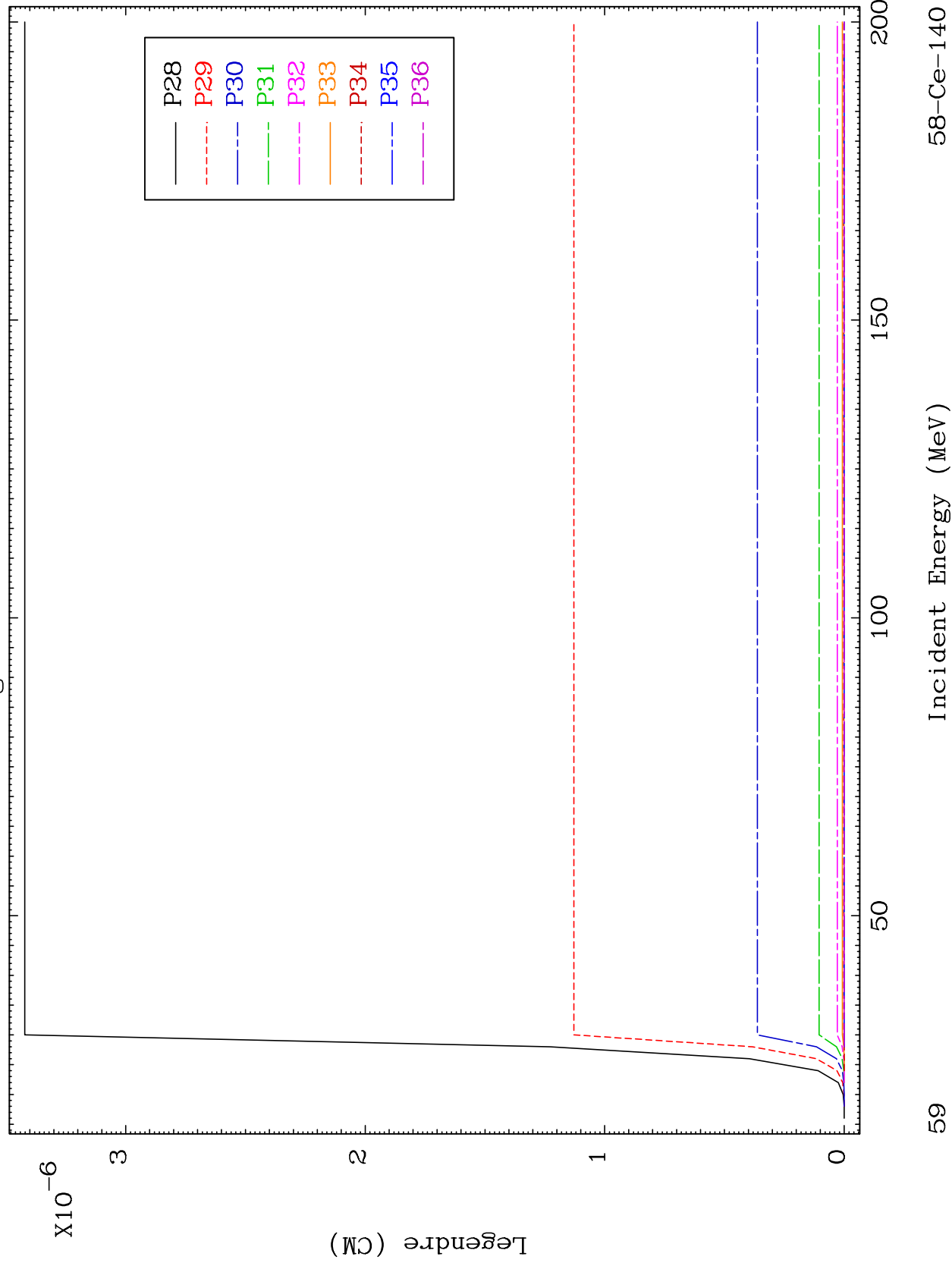
58

58-Ce-140

MAT 5837

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

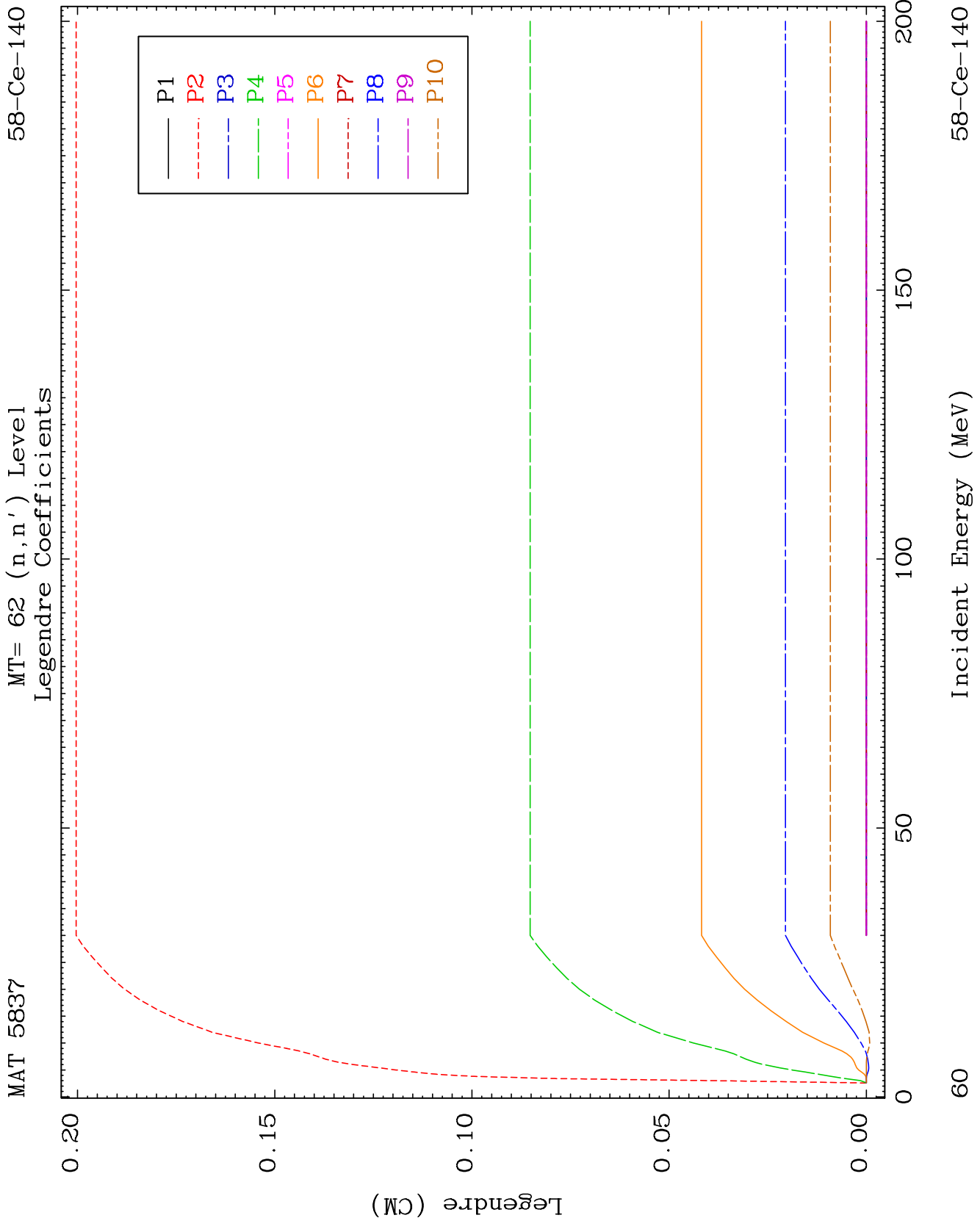
58-Ce-140



59

Incident Energy (MeV)

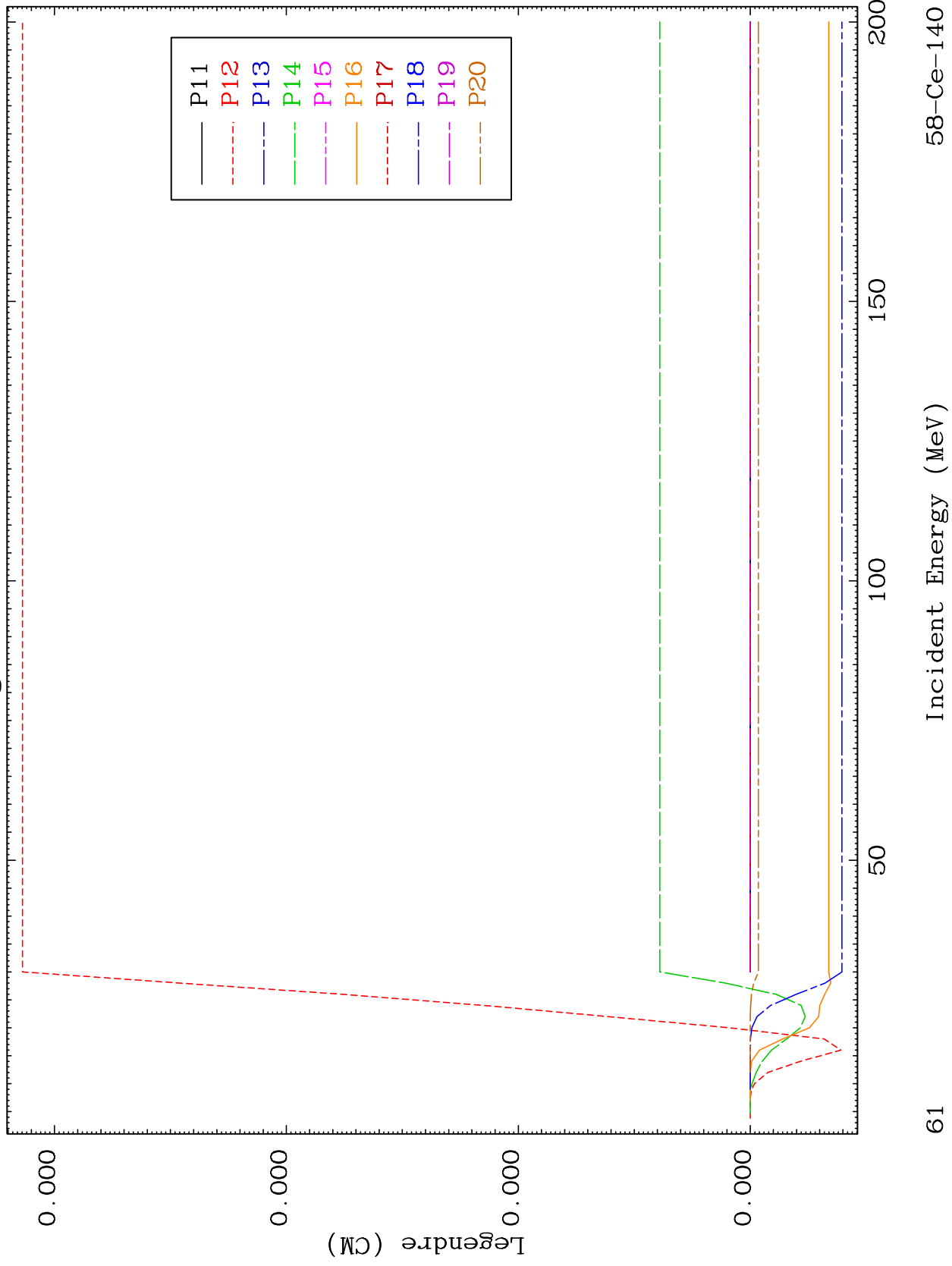
58-Ce-140



MAT 5837

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

58-Ce-140



61

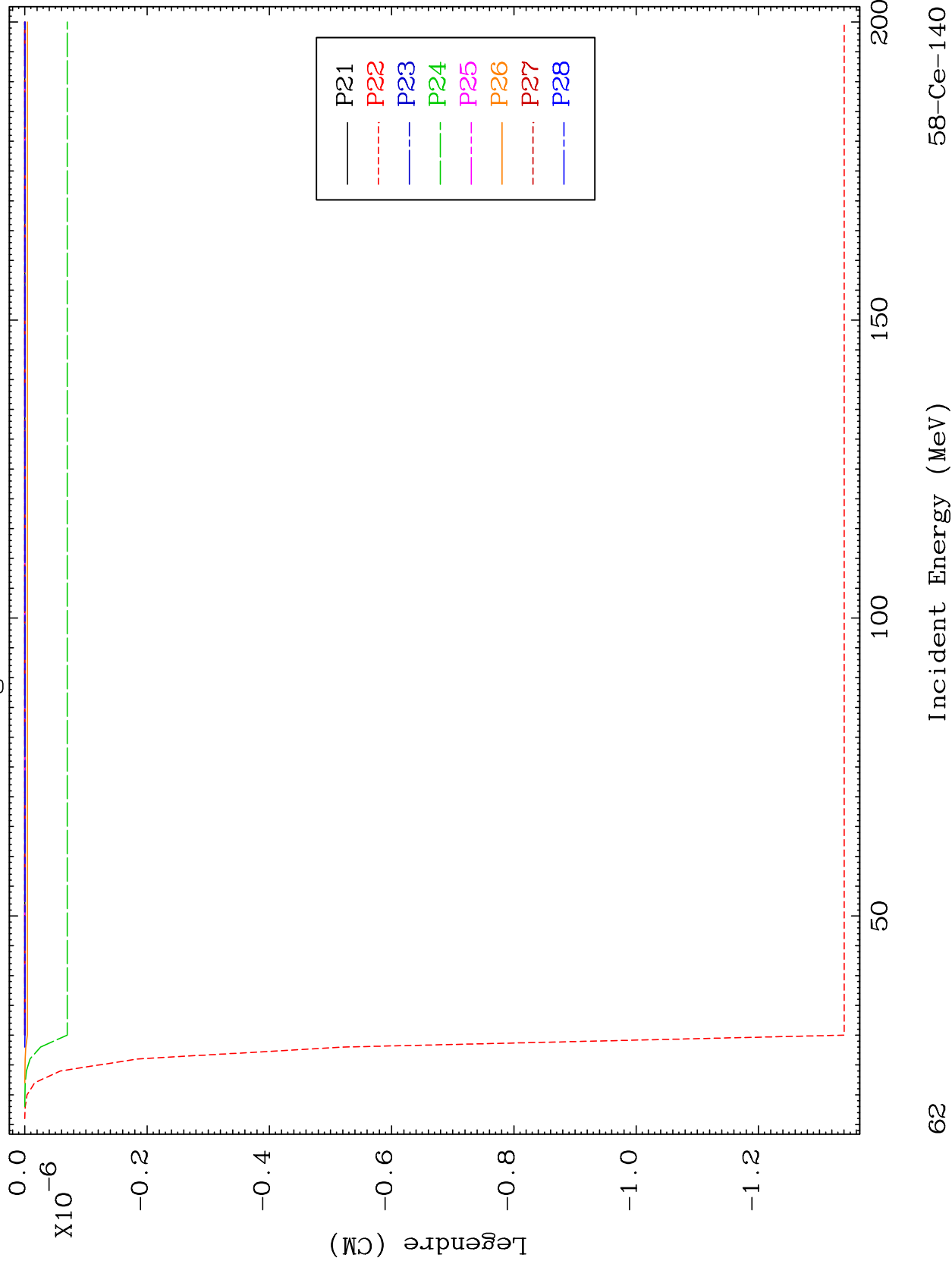
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



62

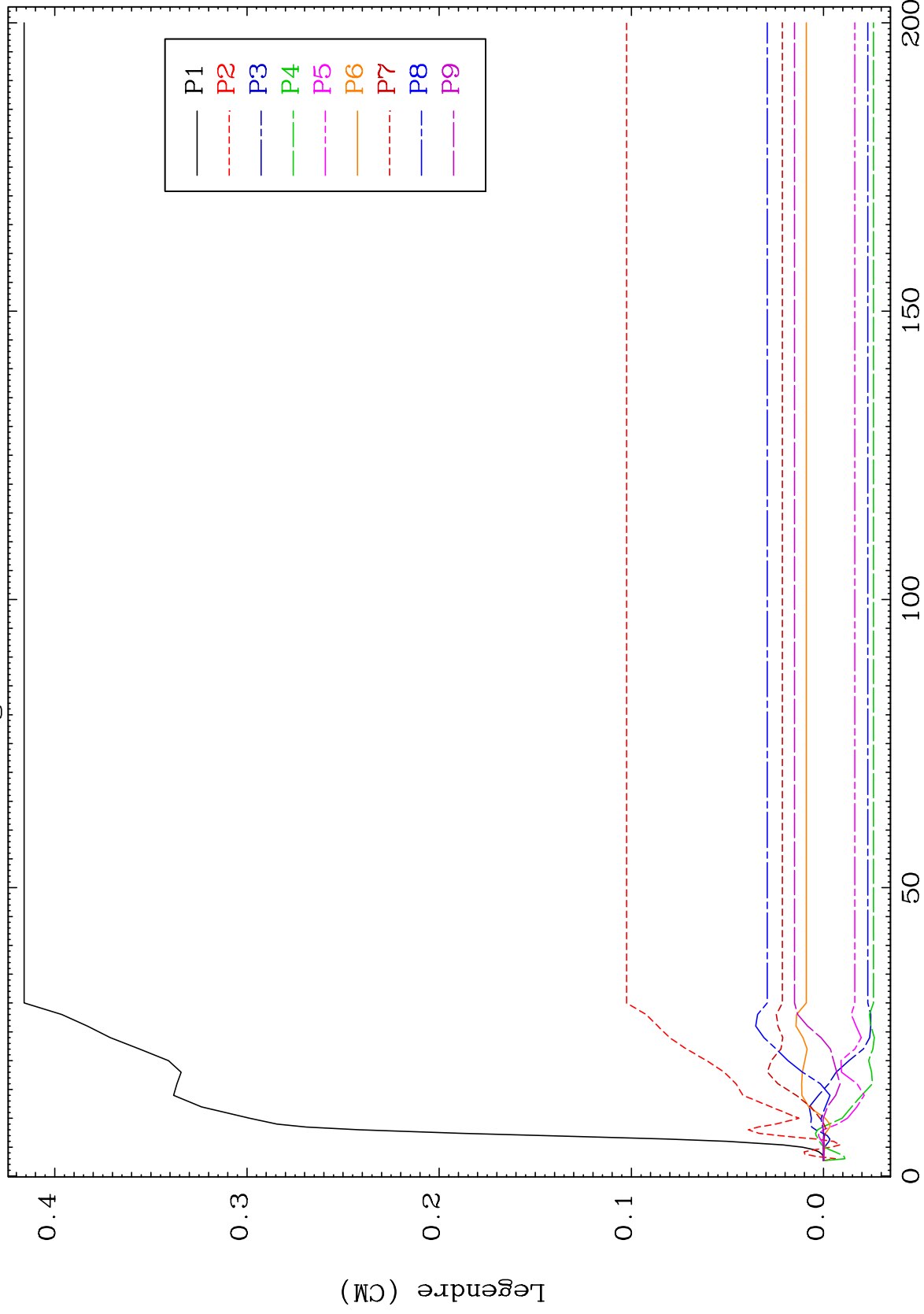
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



58-Ce-140

Incident Energy (MeV)

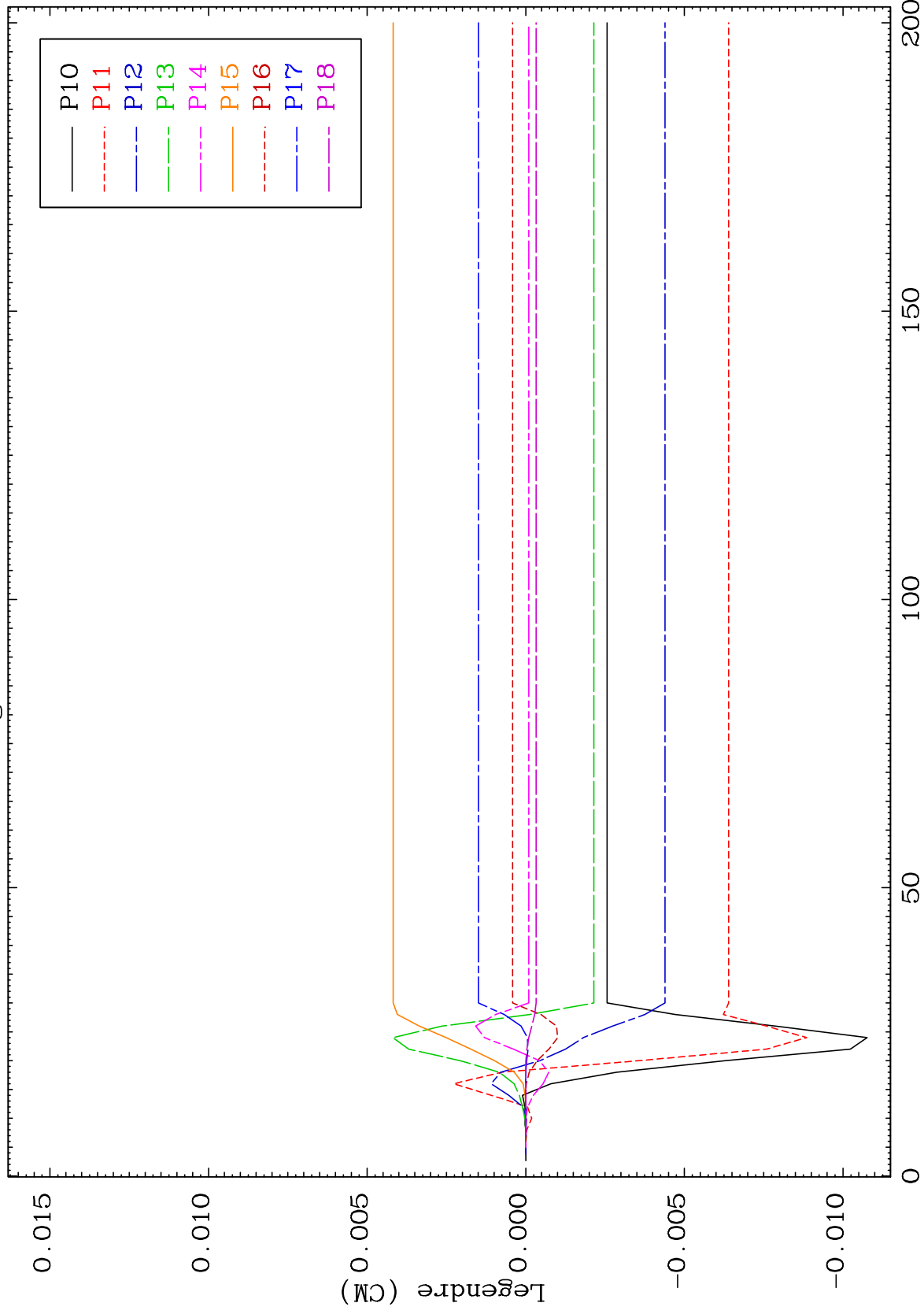
63



MAT 5837

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

58-Ce-140



64

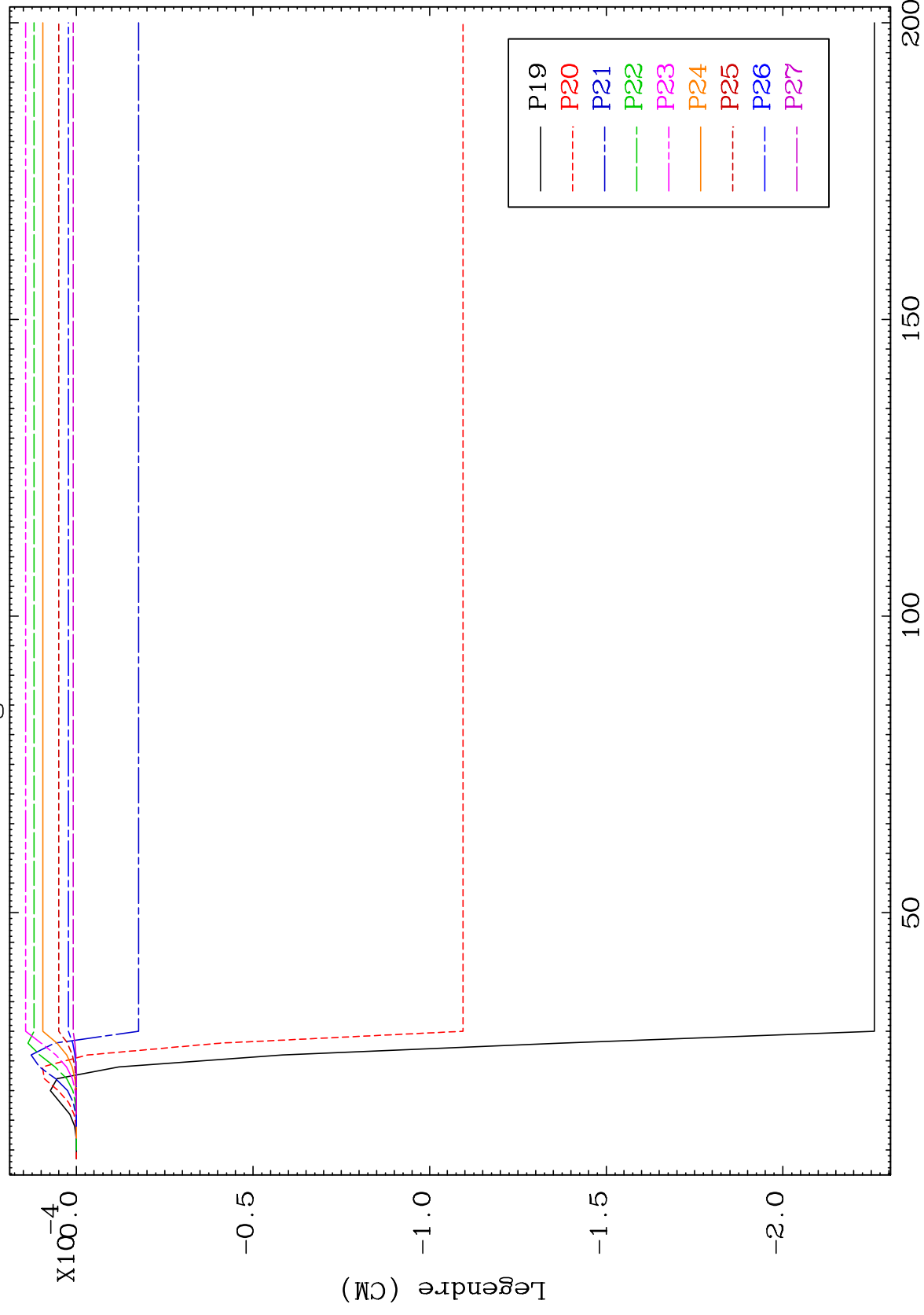
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



65

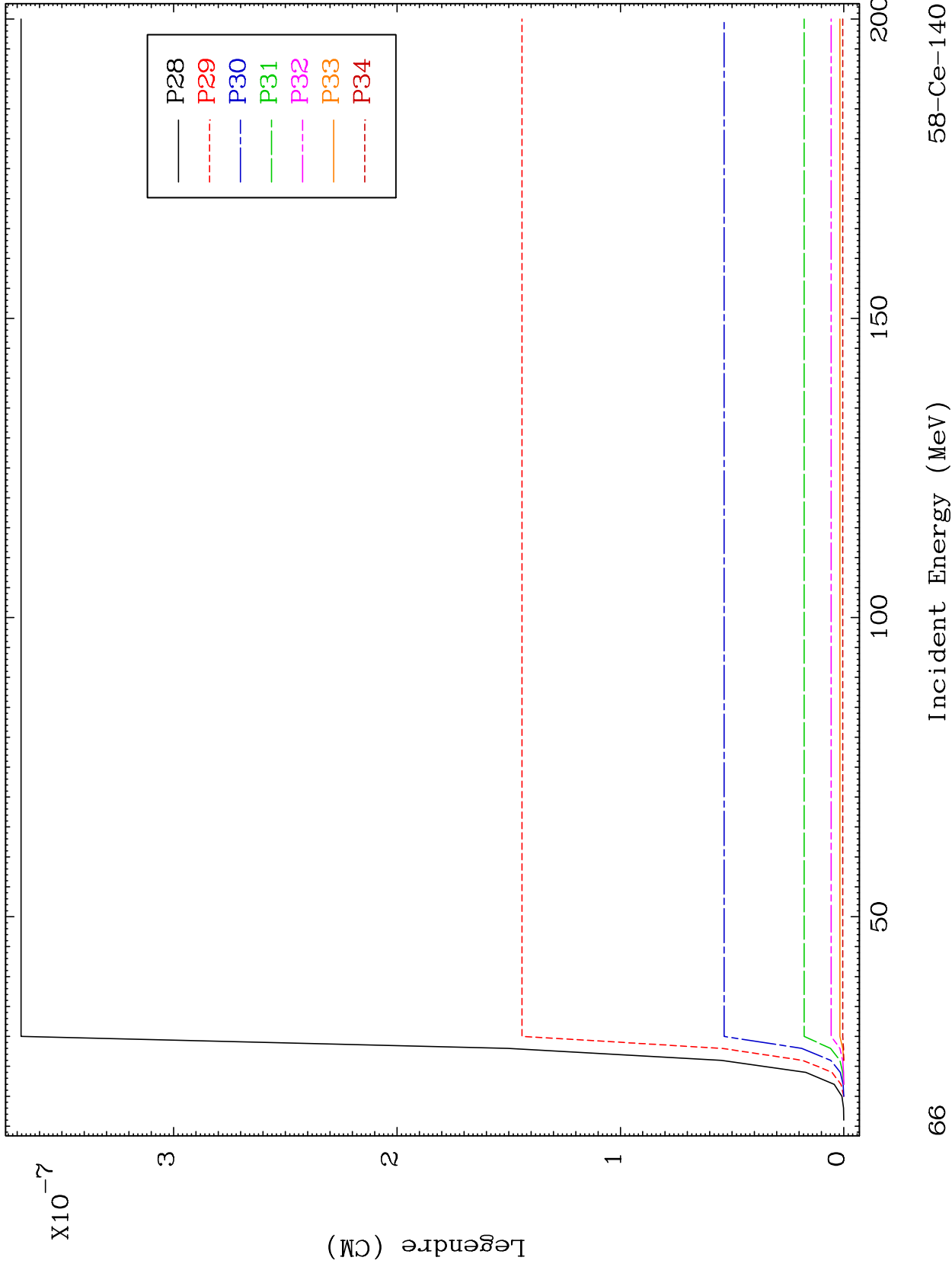
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

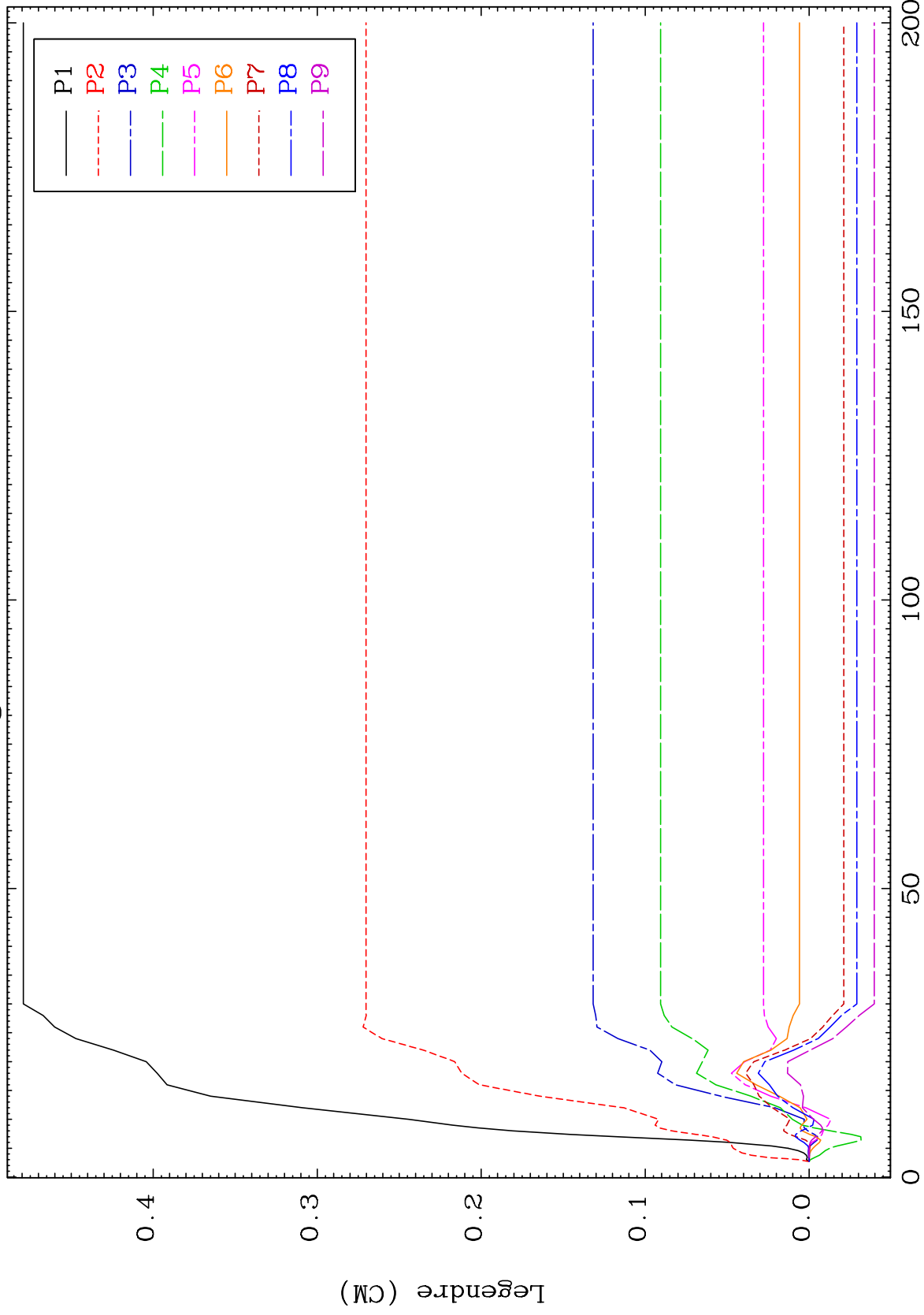
58-Ce-140



MAT 5837

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

58-Ce-140



67

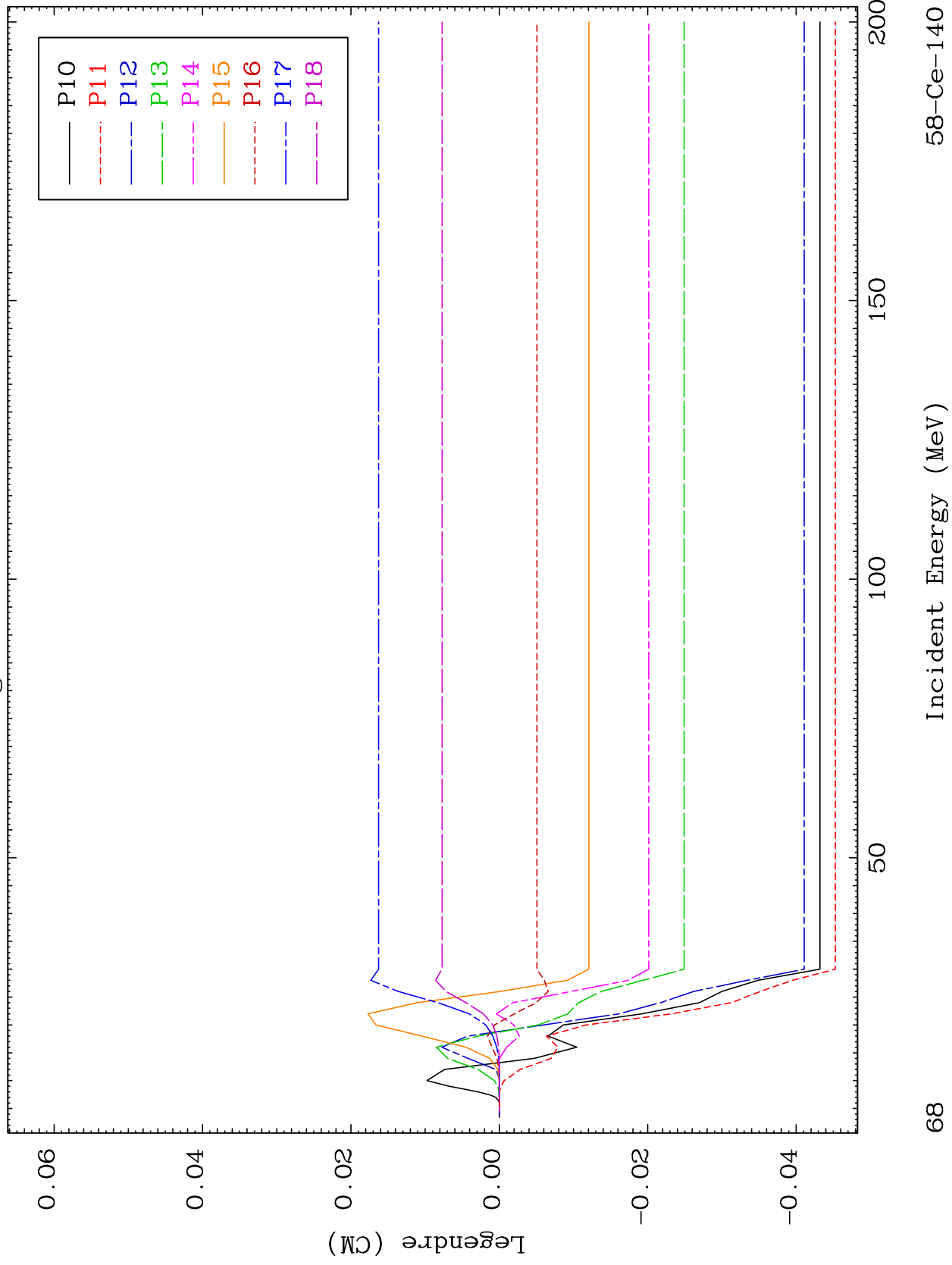
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

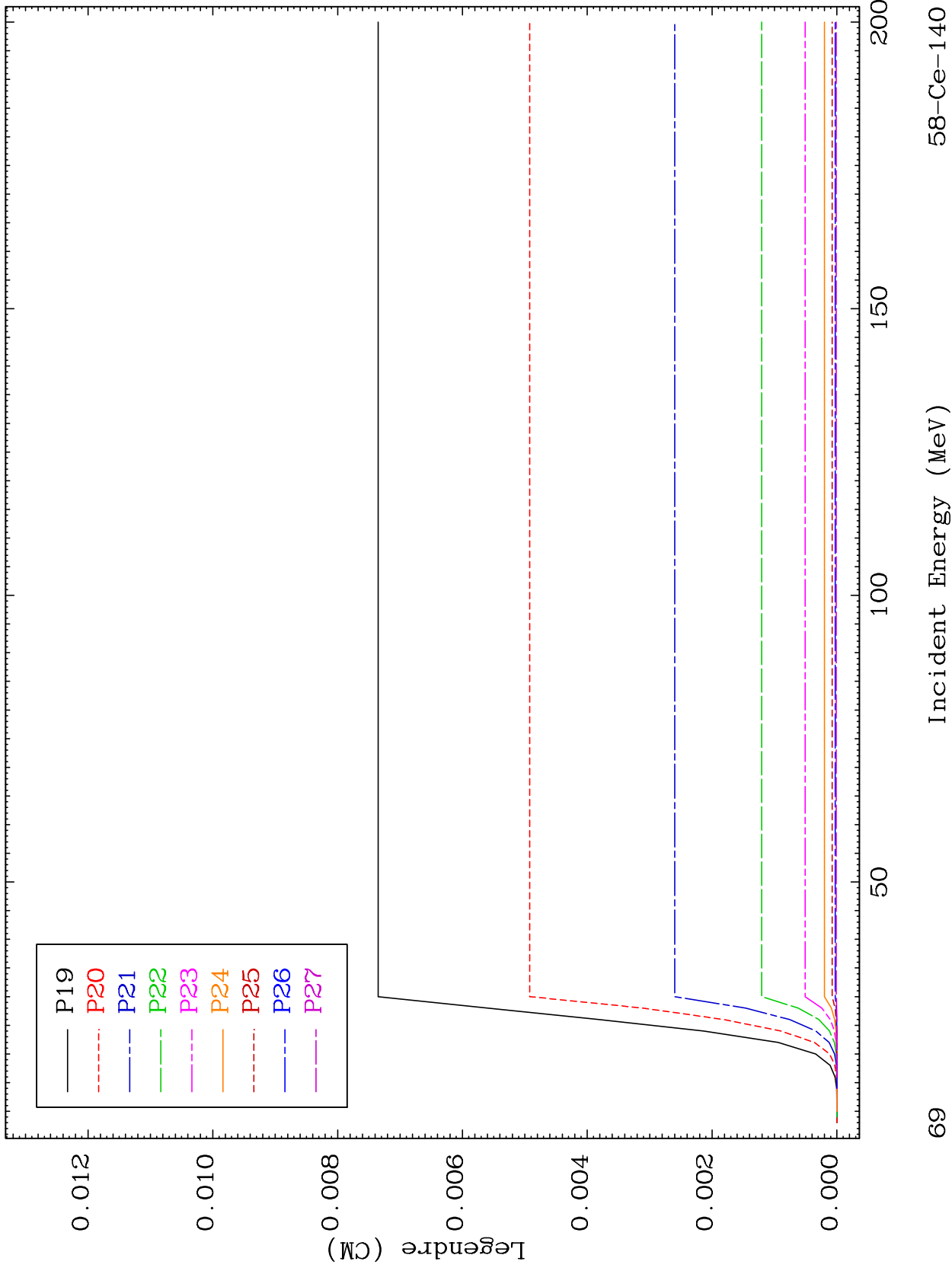
58-Ce-140



68

Incident Energy (MeV)

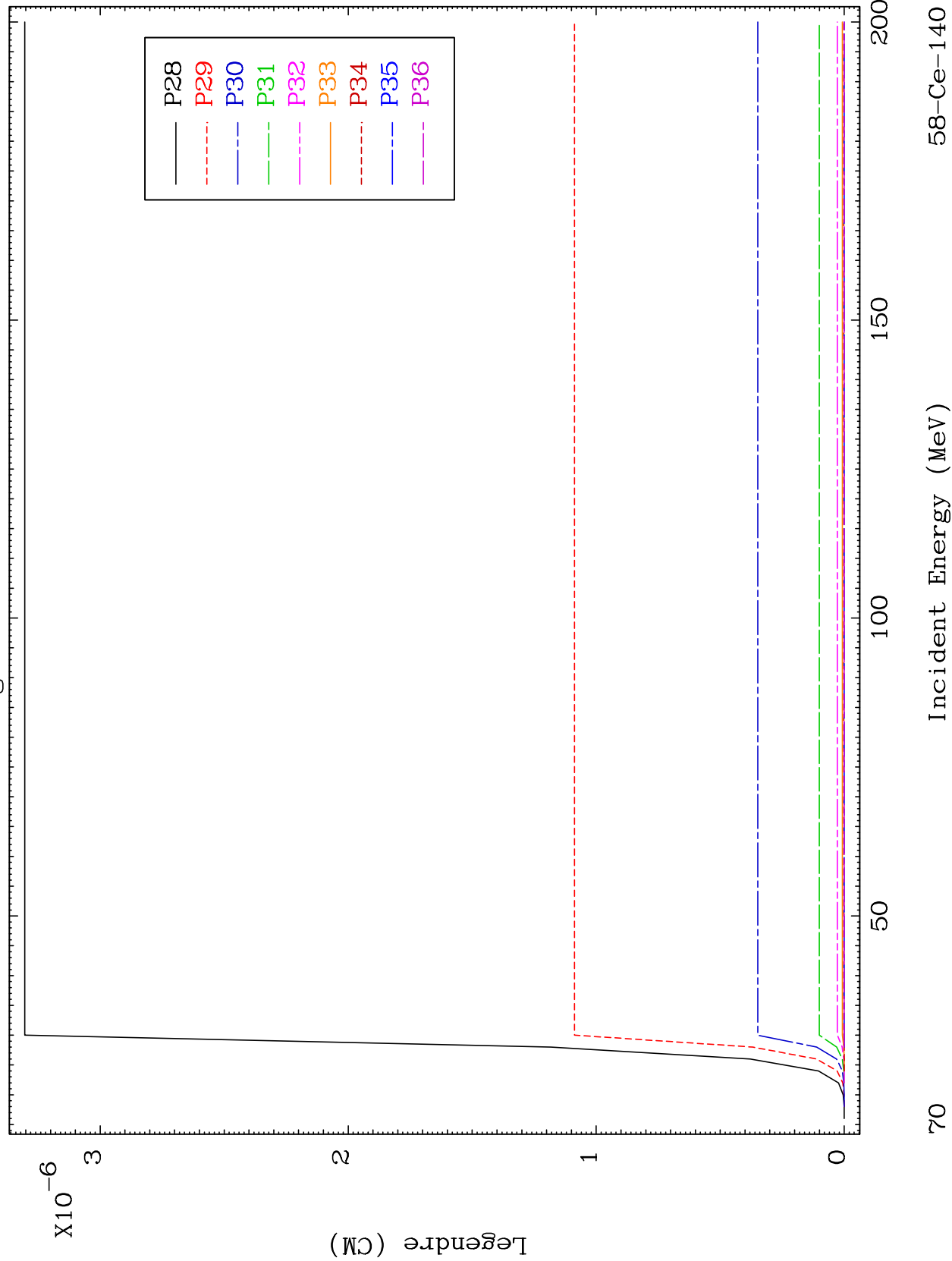
58-Ce-140



MAT 5837

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

58-Ce-140



70

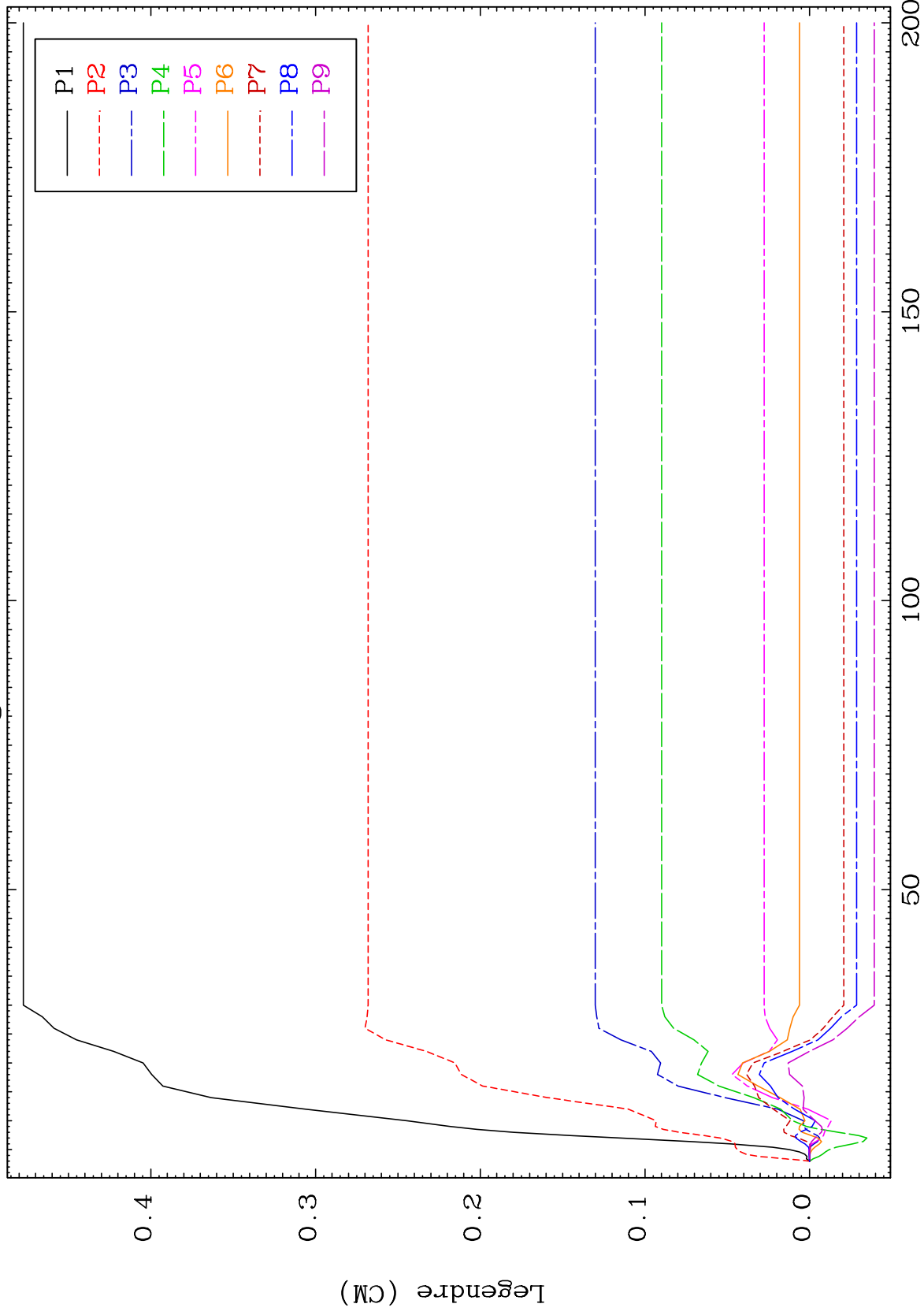
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



71

Incident Energy (MeV)

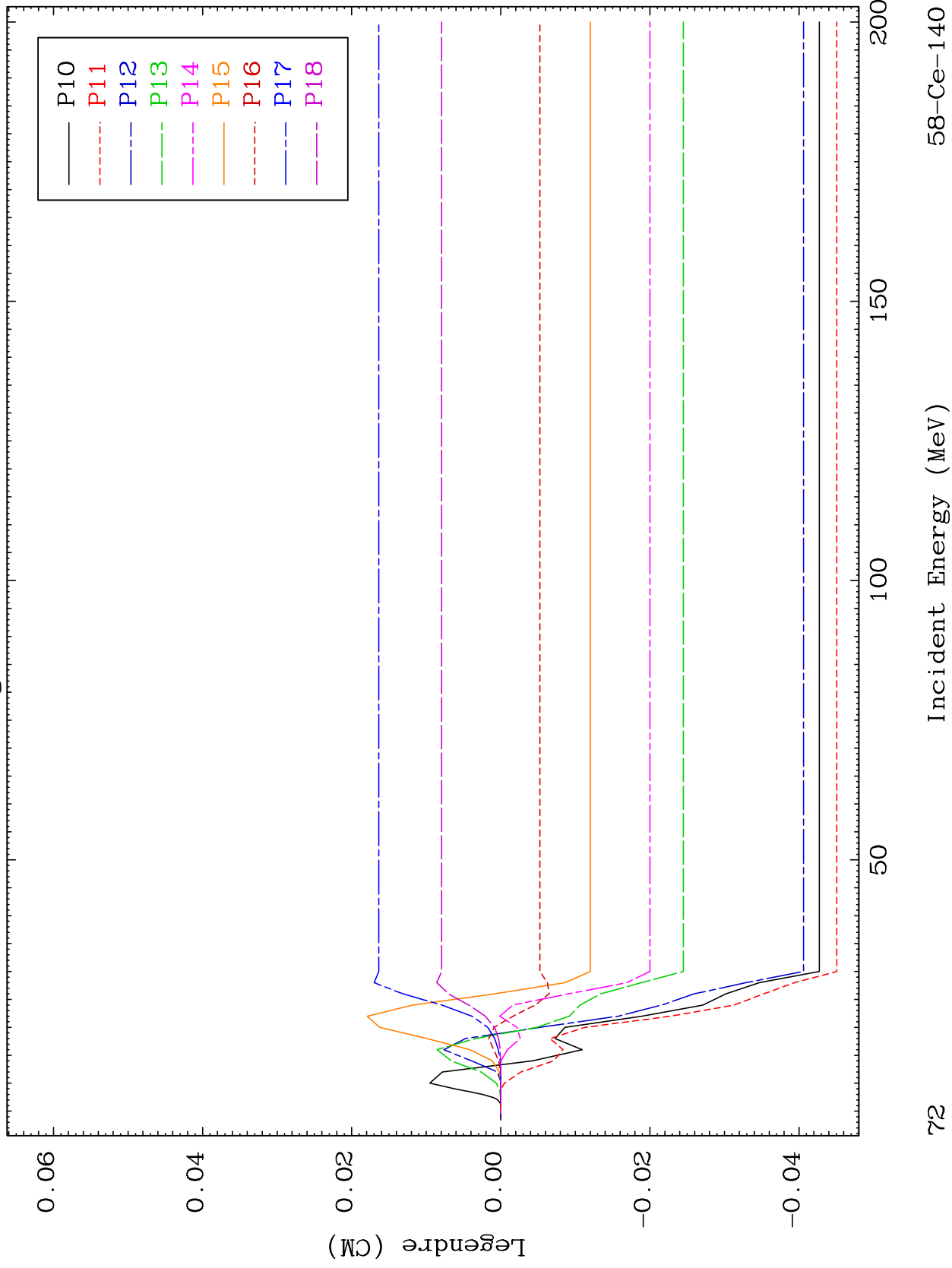
58-Ce-140



MAT 5837

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

58-Ce-140

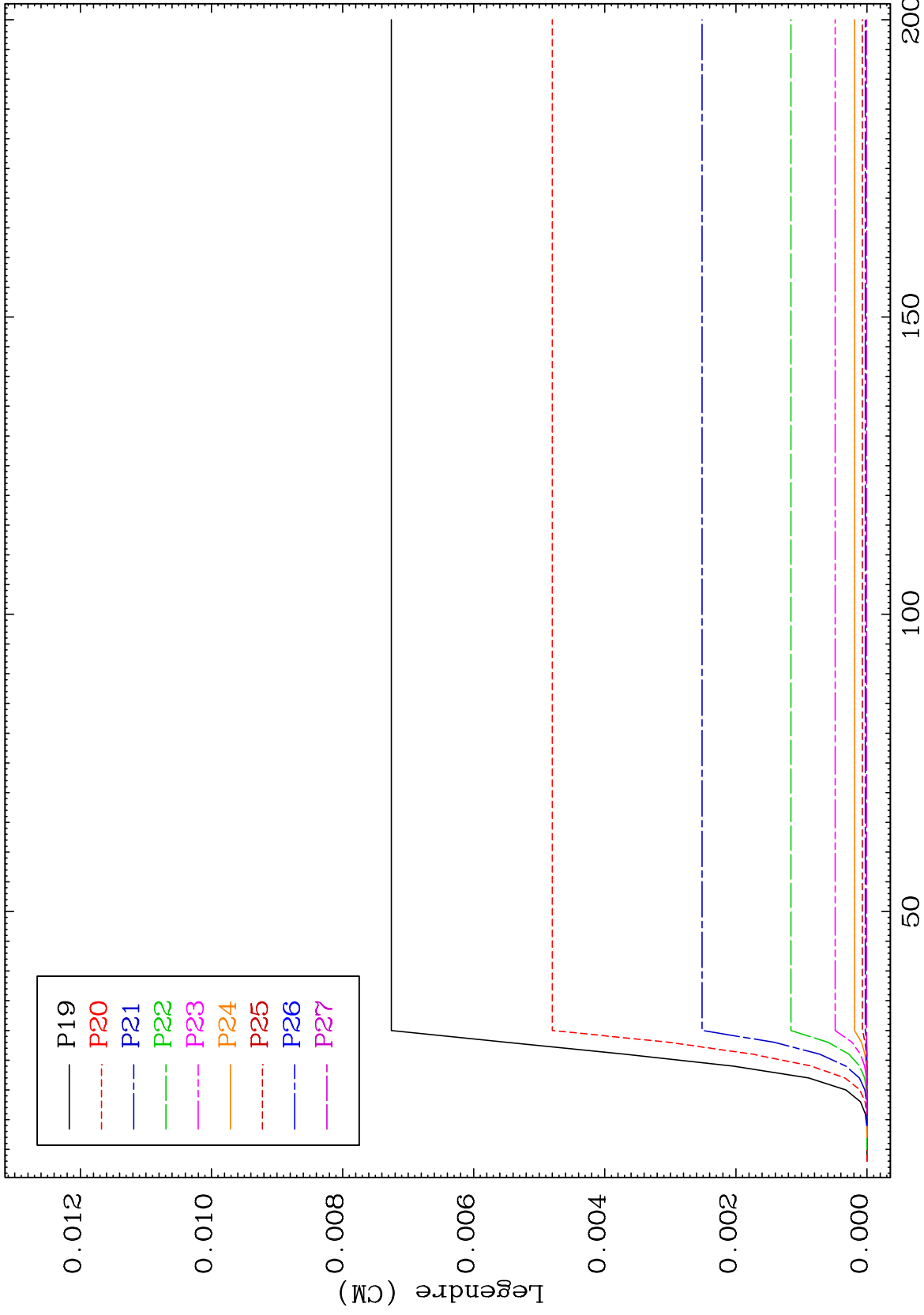


72

MAT 5837

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

58-Ce-140



73

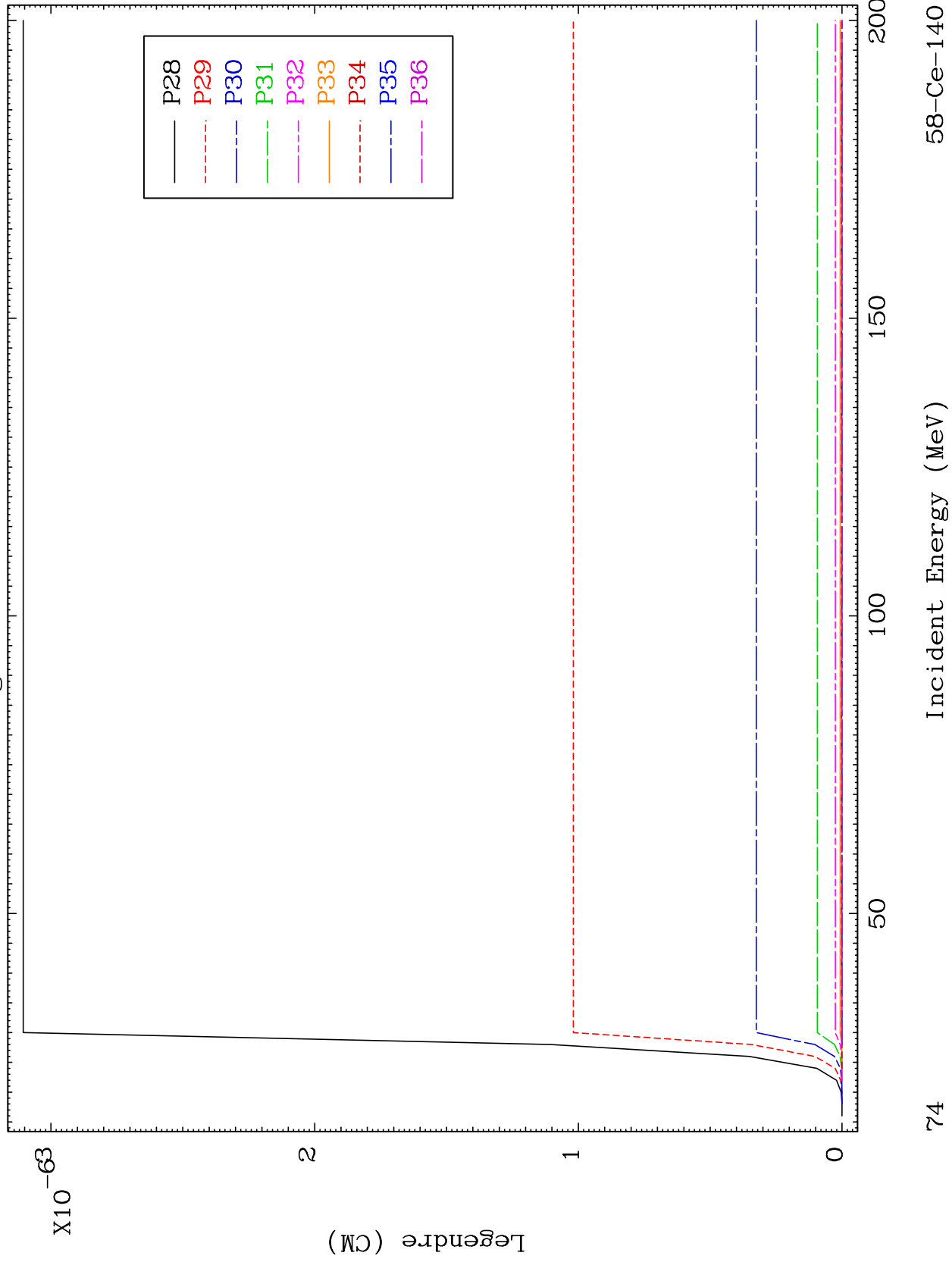
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

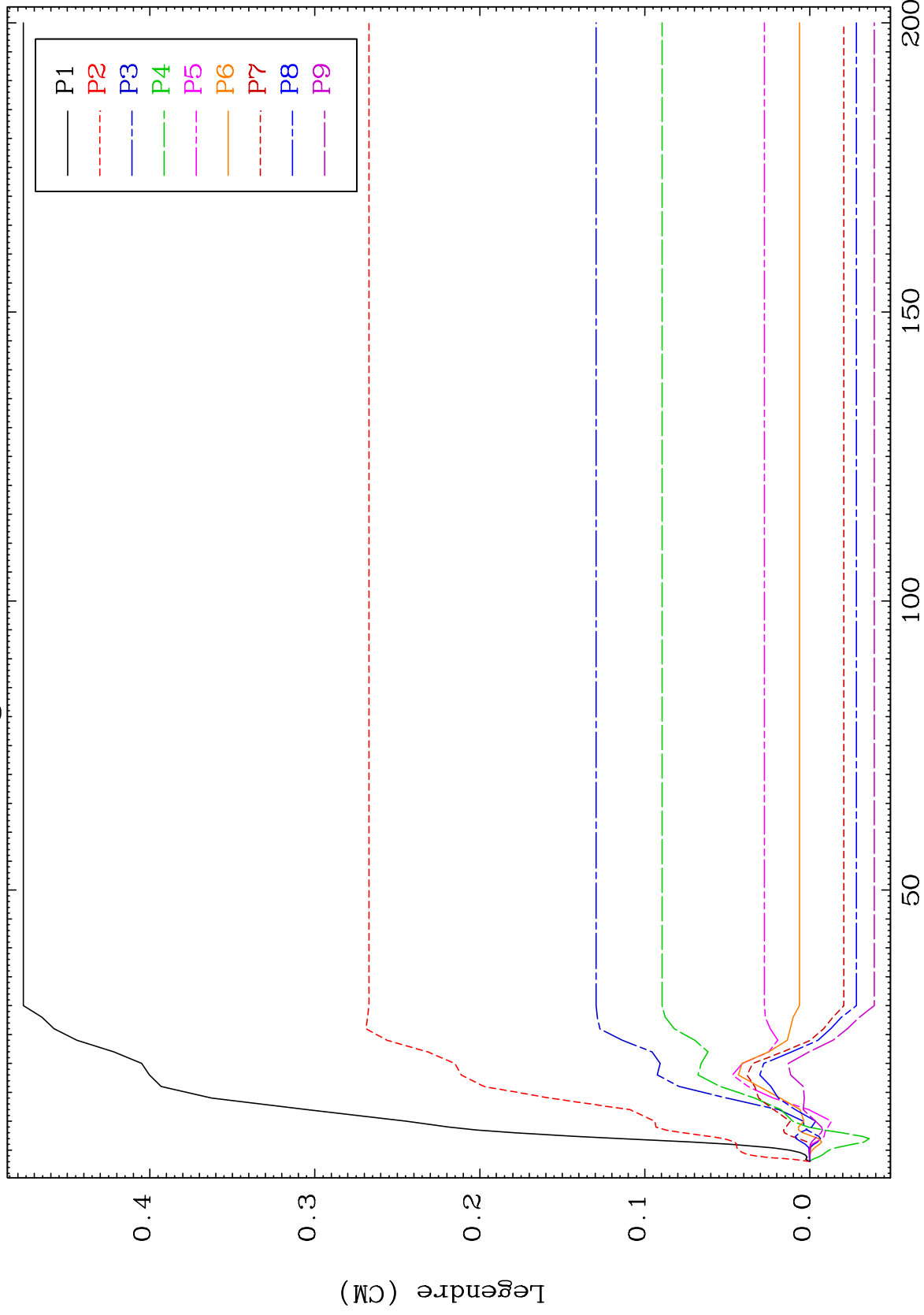
58-Ce-140



MAT 5837

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

58-Ce-140



75

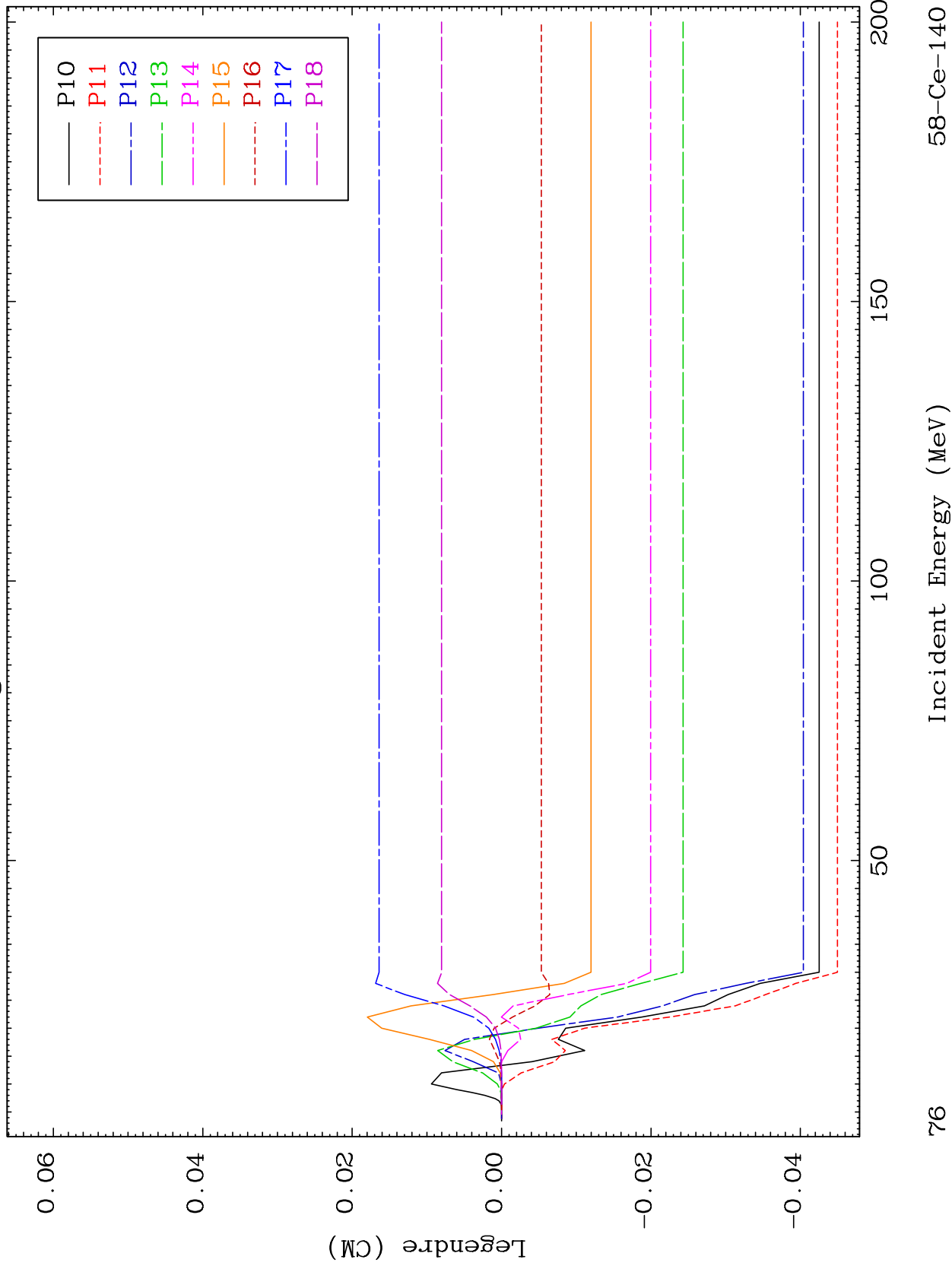
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



76

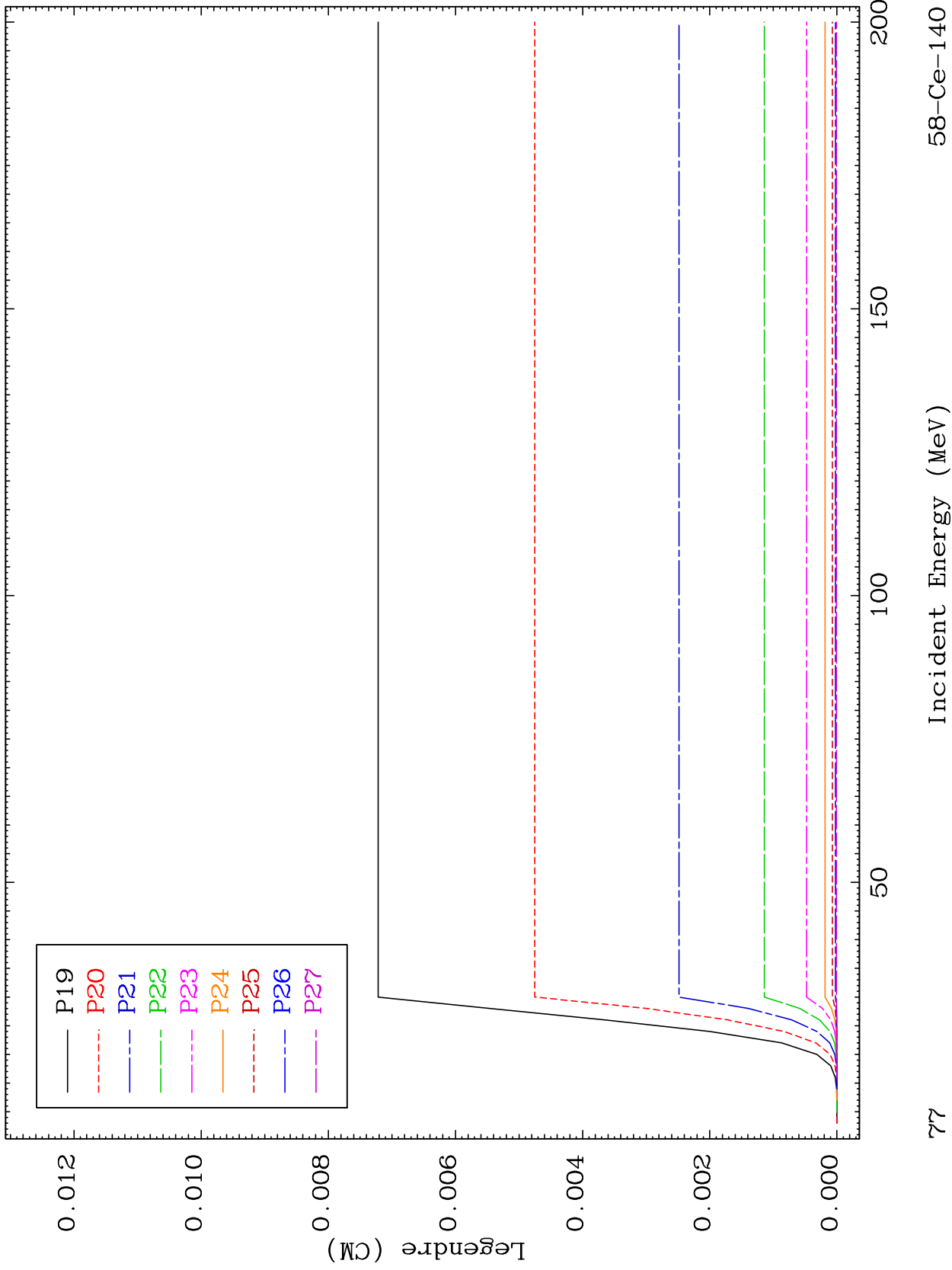
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

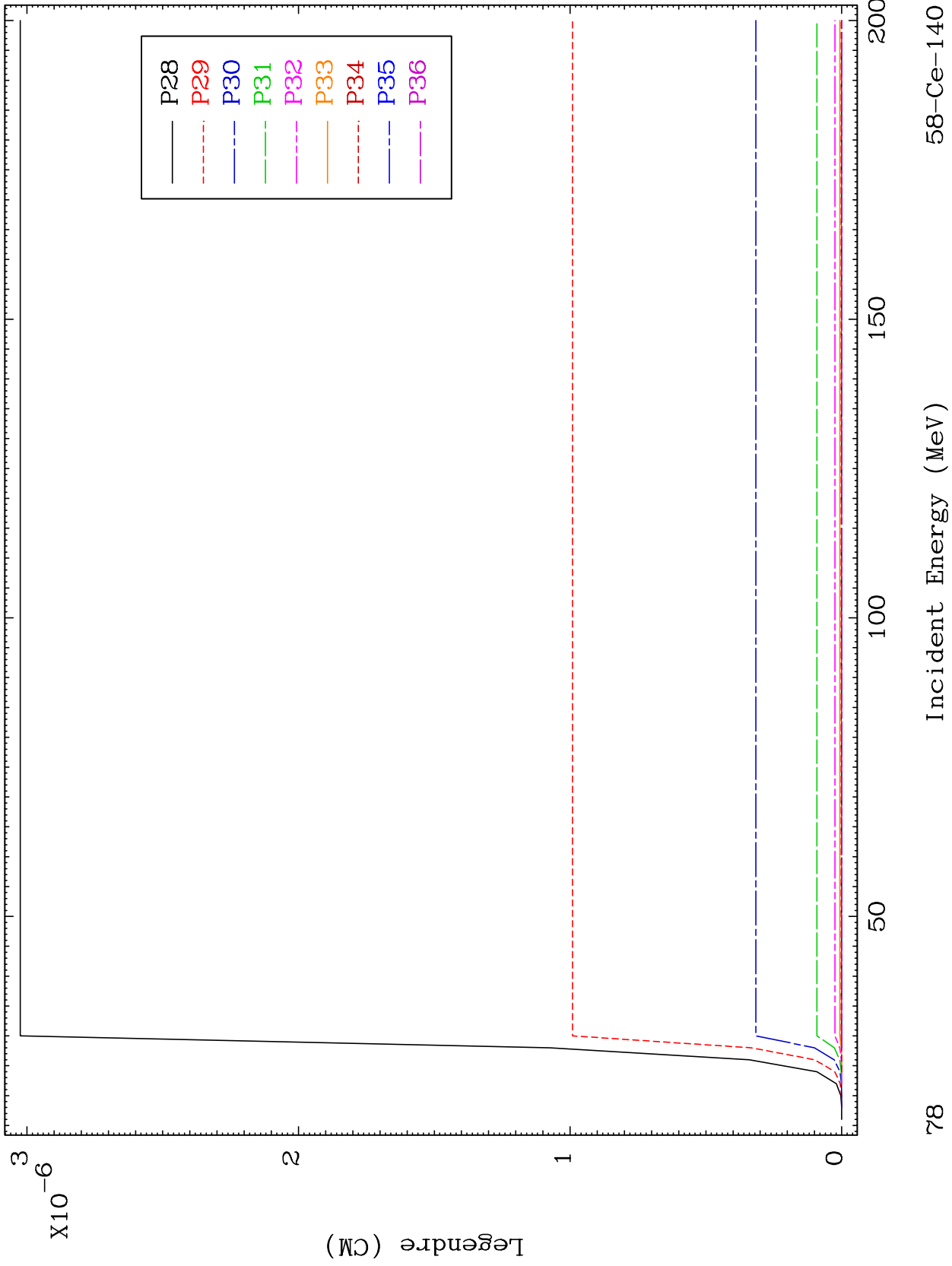
58-Ce-140

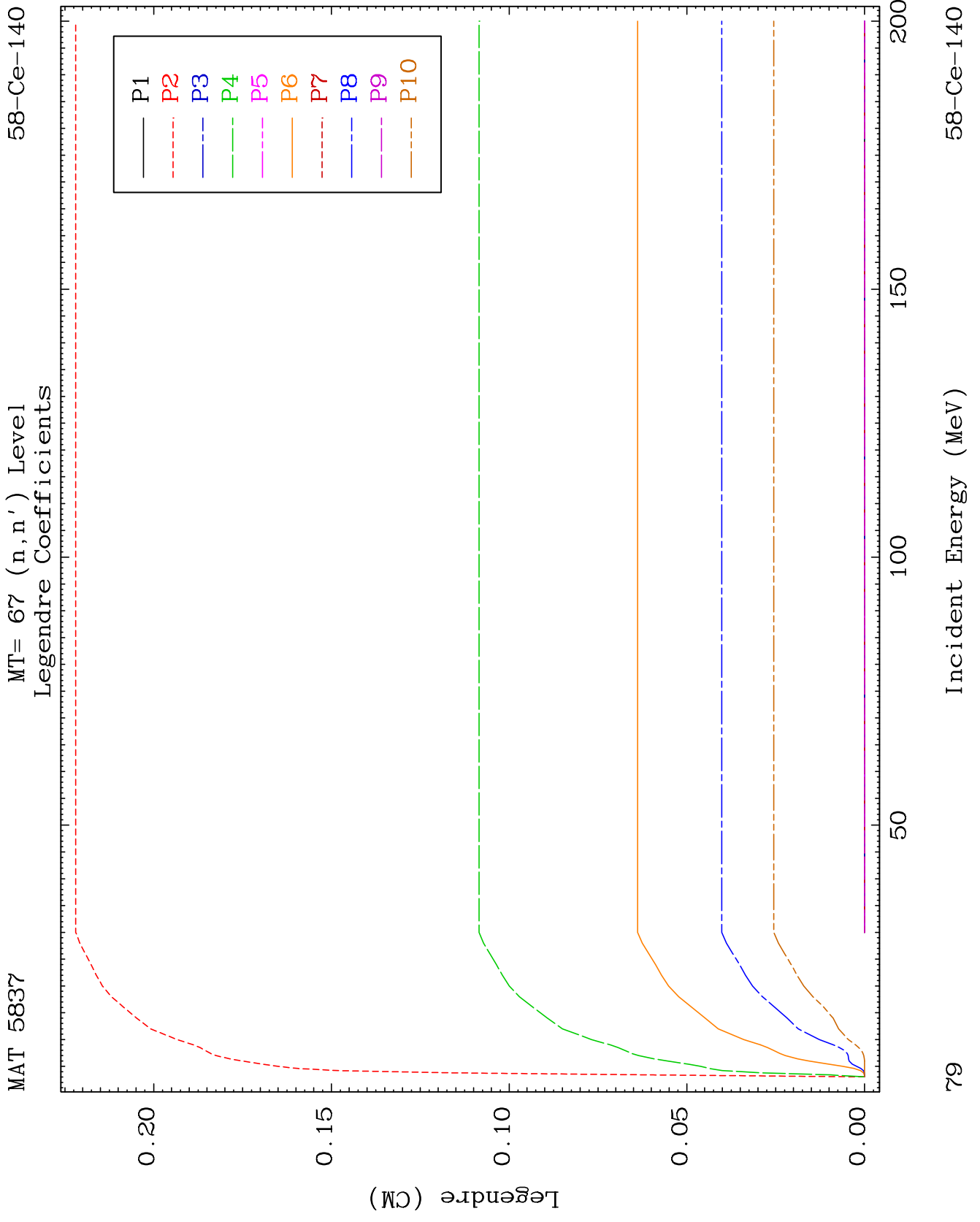


MAT 5837

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

58-Ce-140



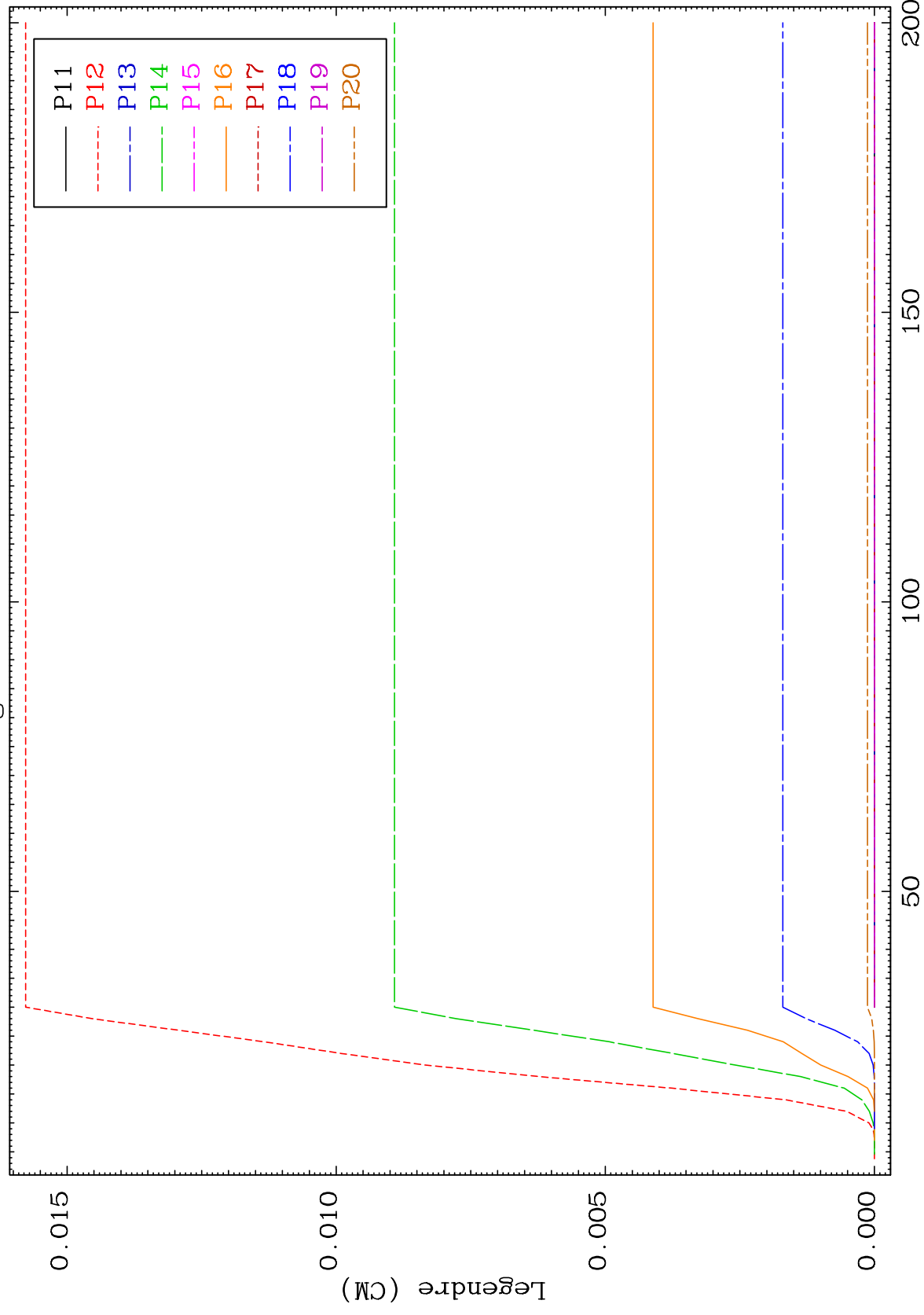




MAT 5837

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

58-Ce-140



80

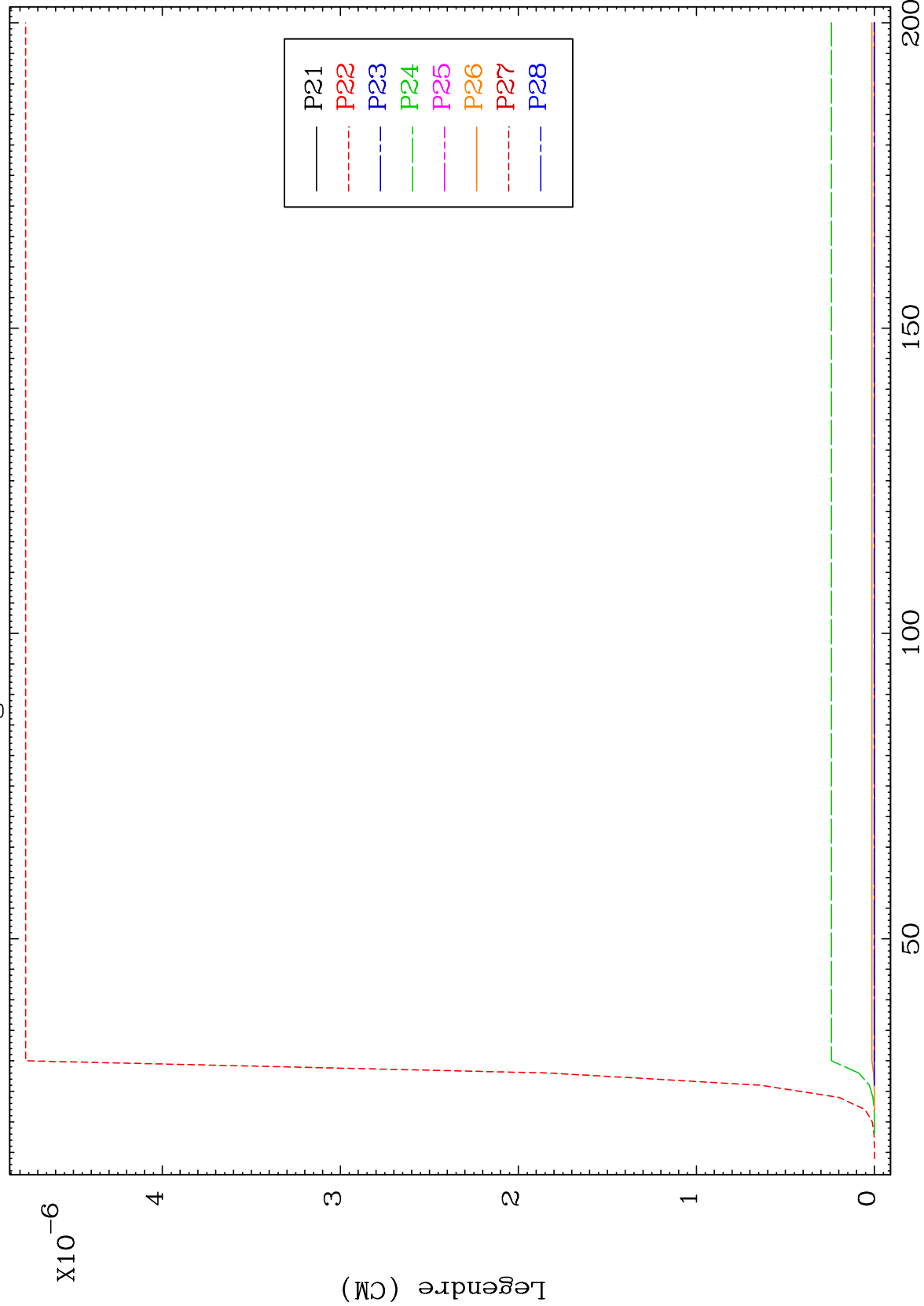
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



81

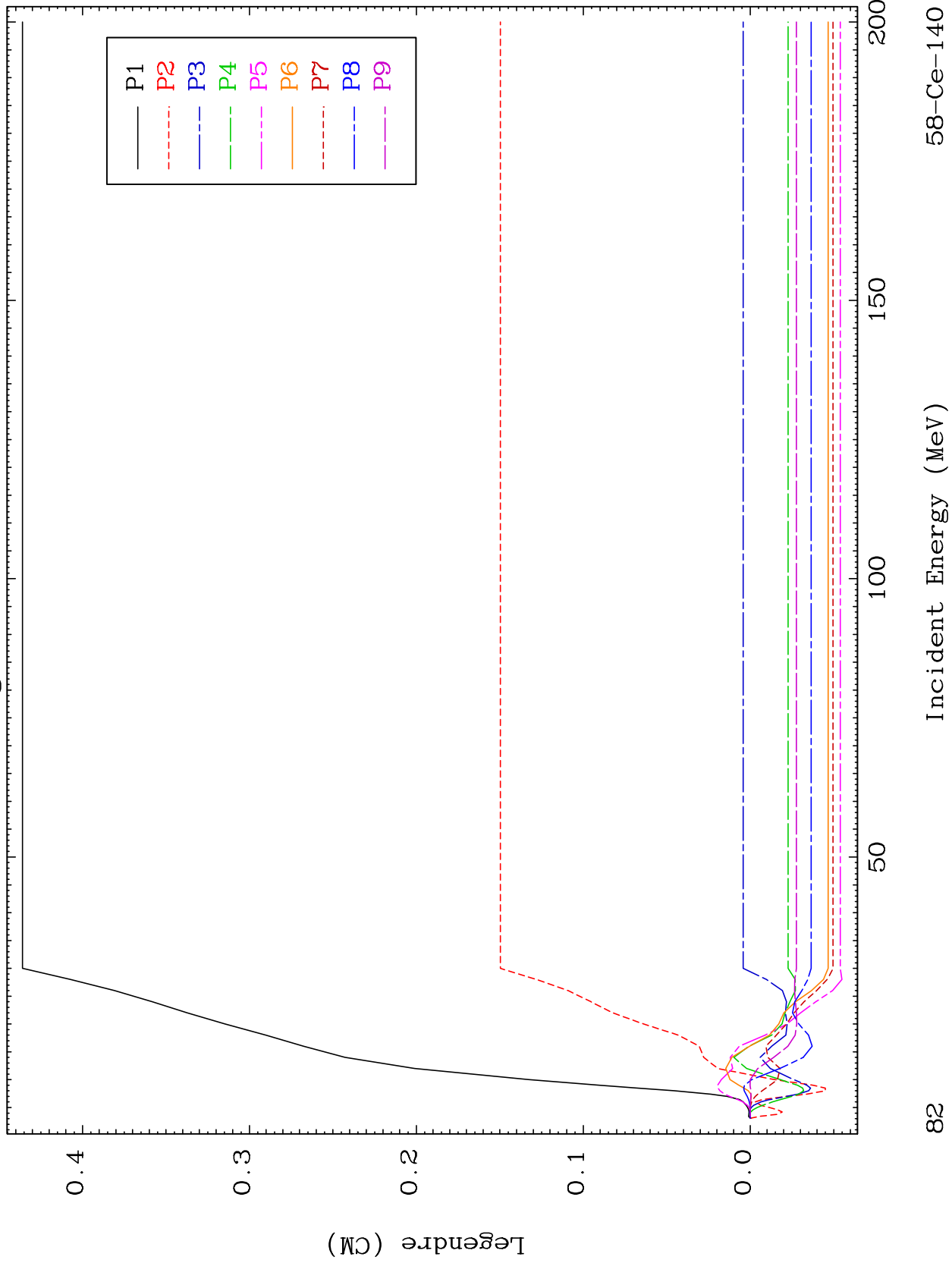
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

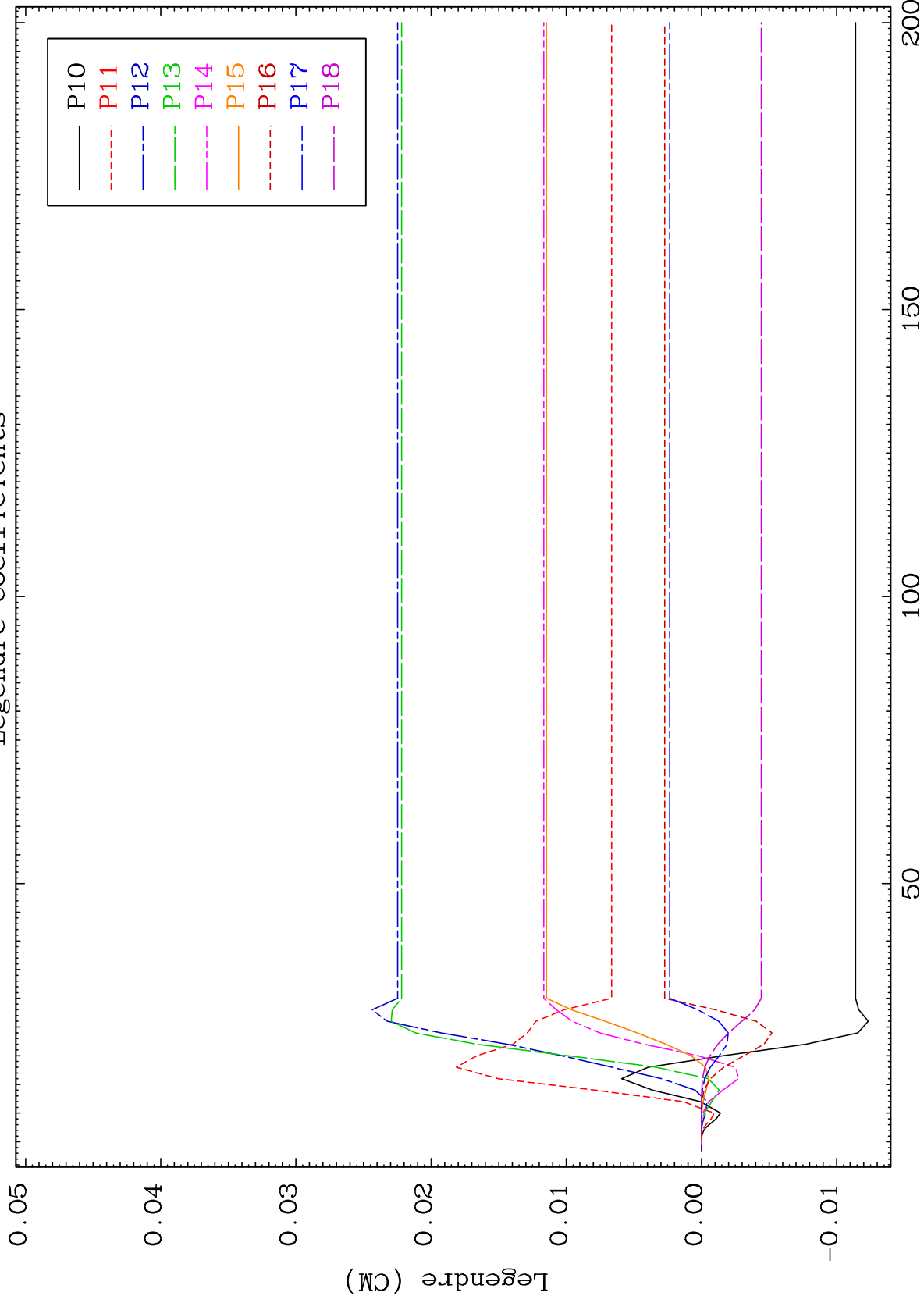
58-Ce-140



MAT 5837

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

58-Ce-140



83

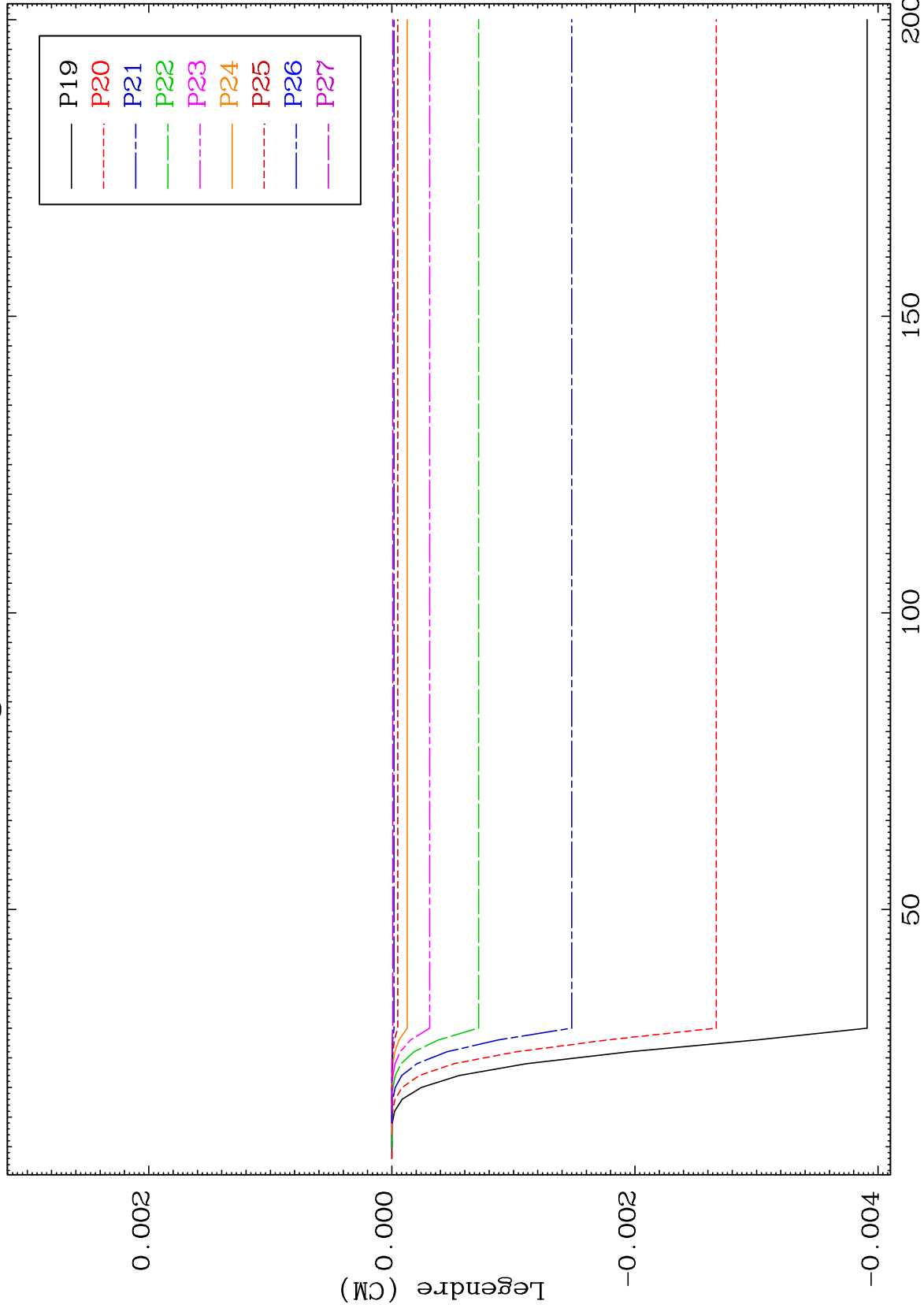
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



84

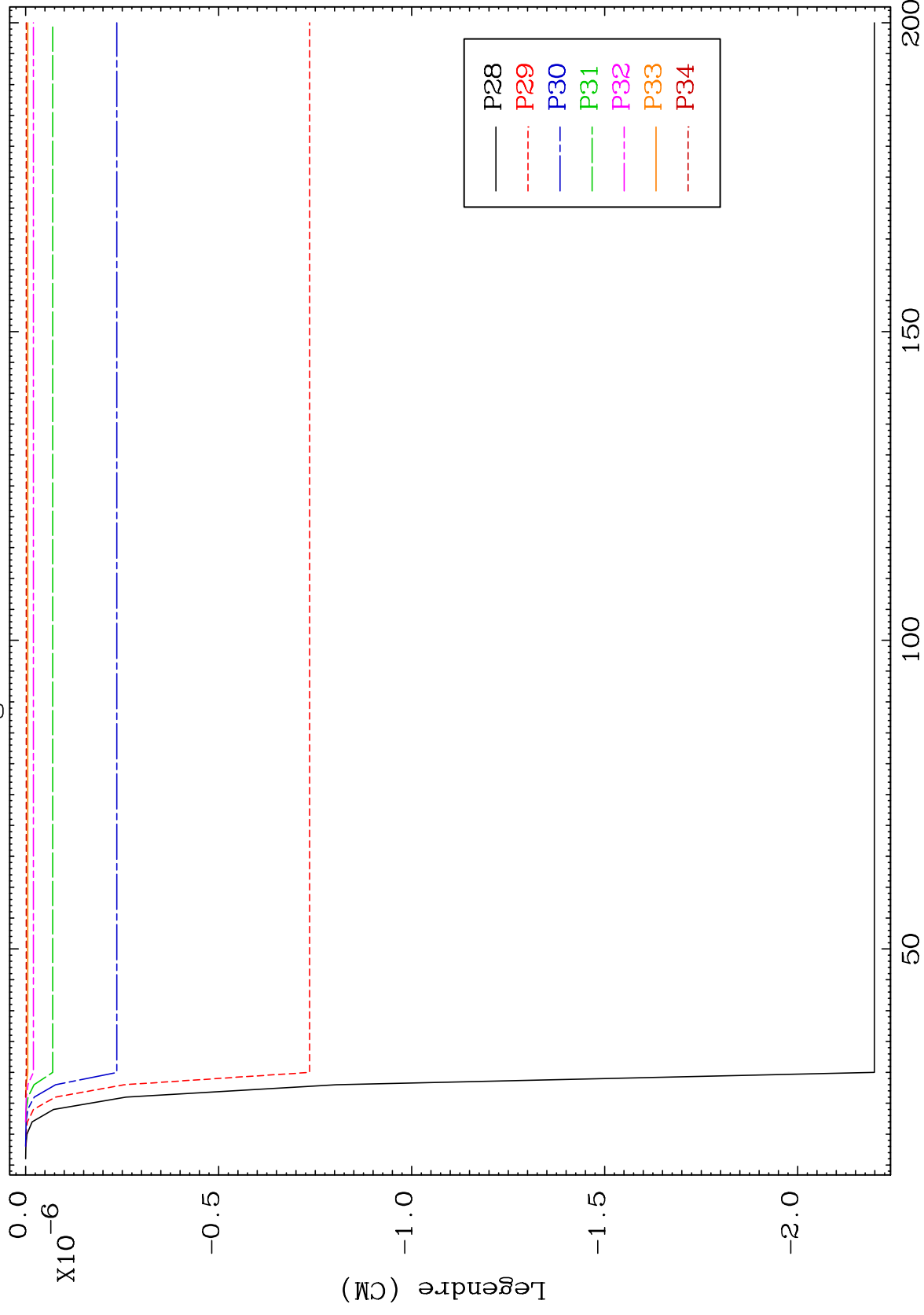
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



85

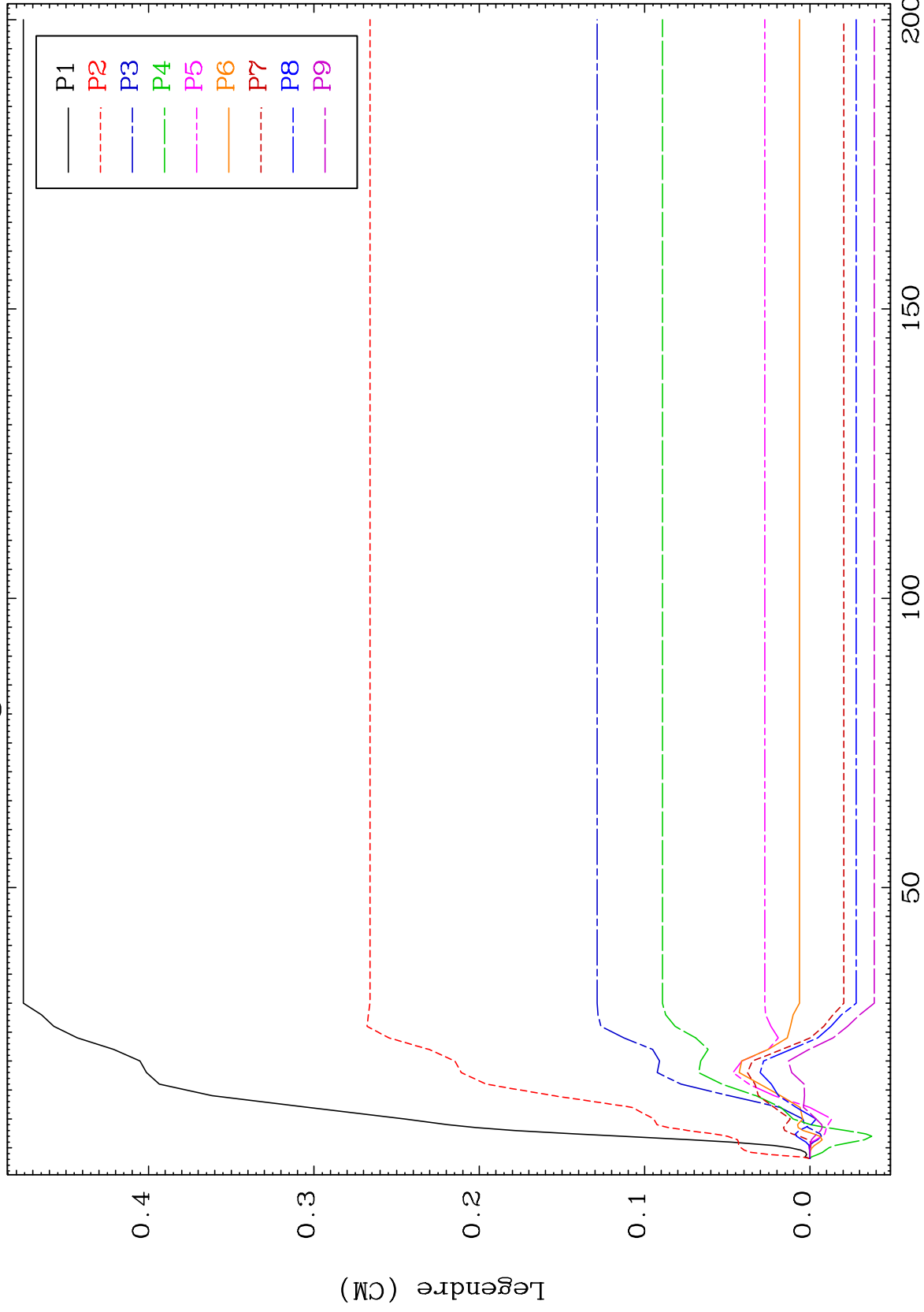
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



86

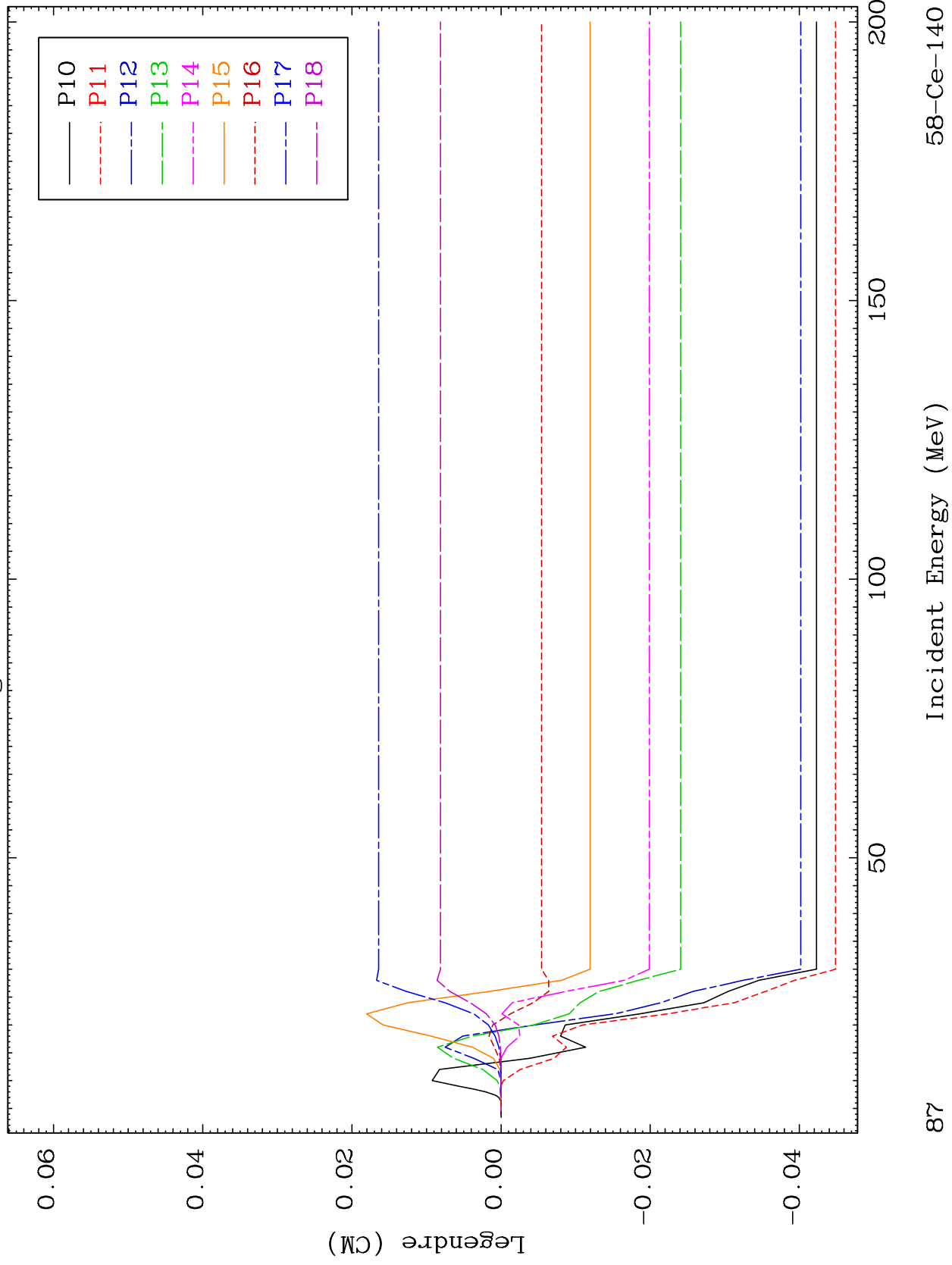
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140

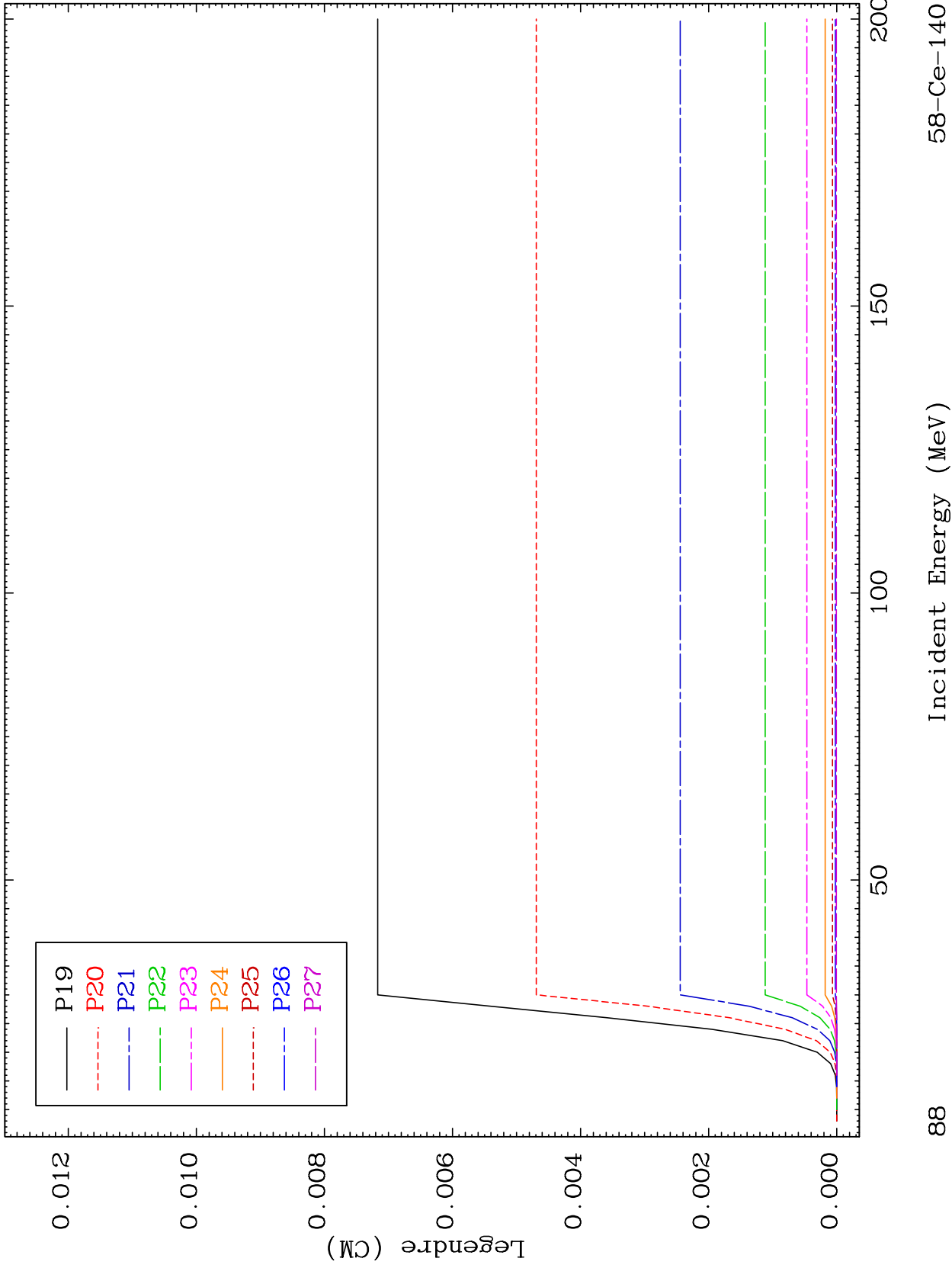


87

Incident Energy (MeV)

58-Ce-140

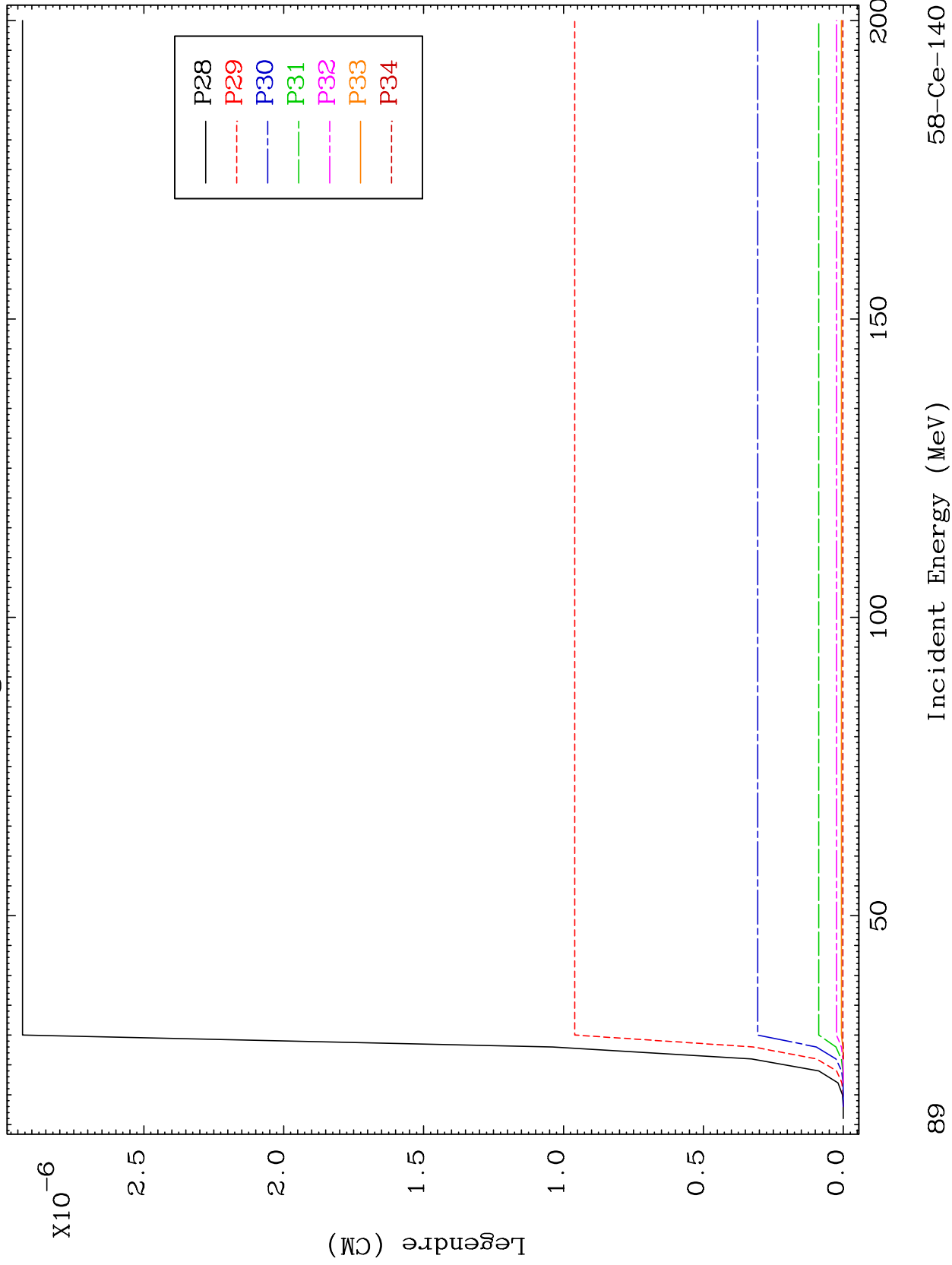




MAT 5837

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

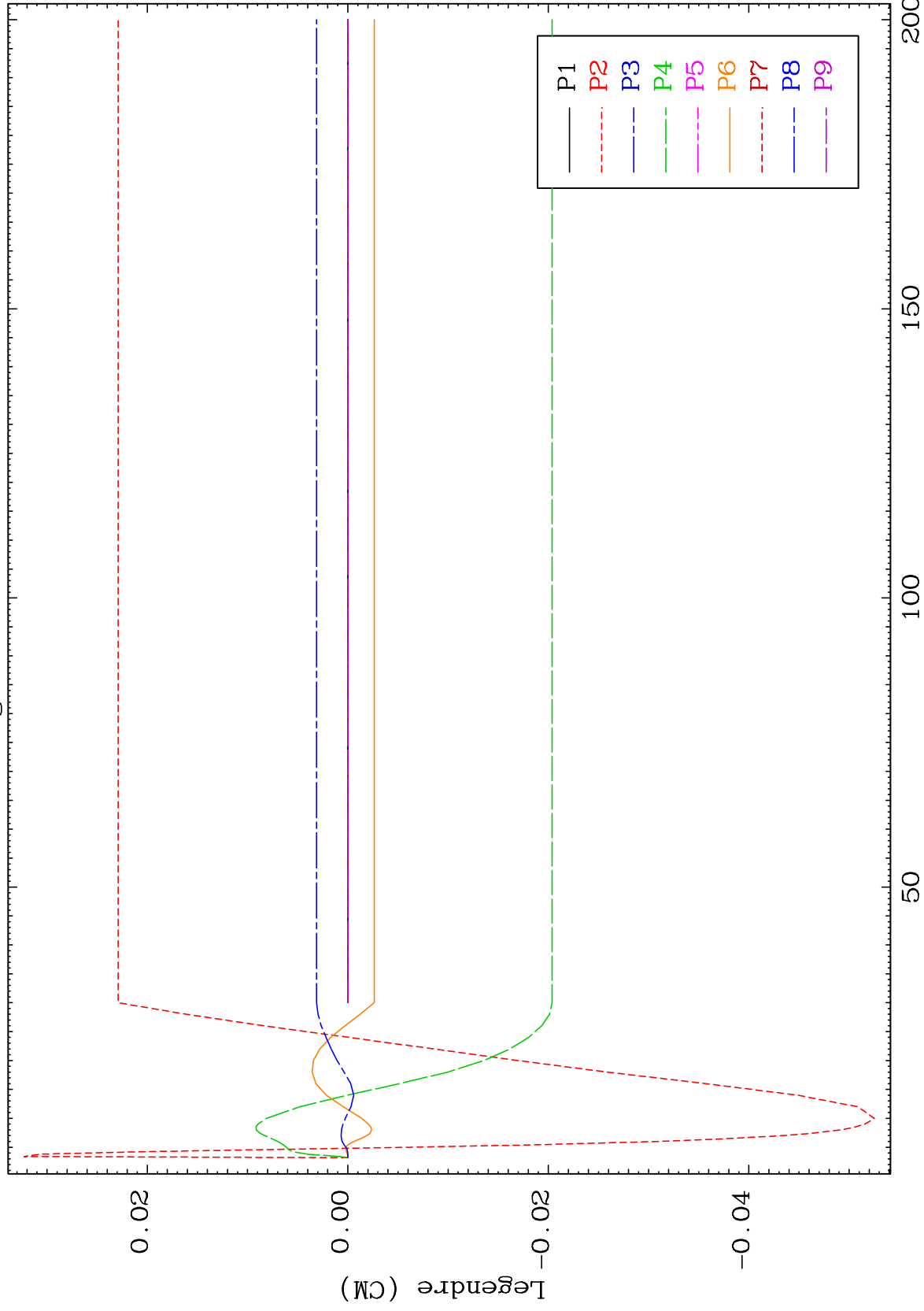
58-Ce-140



MAT 5837

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

58-Ce-140



90

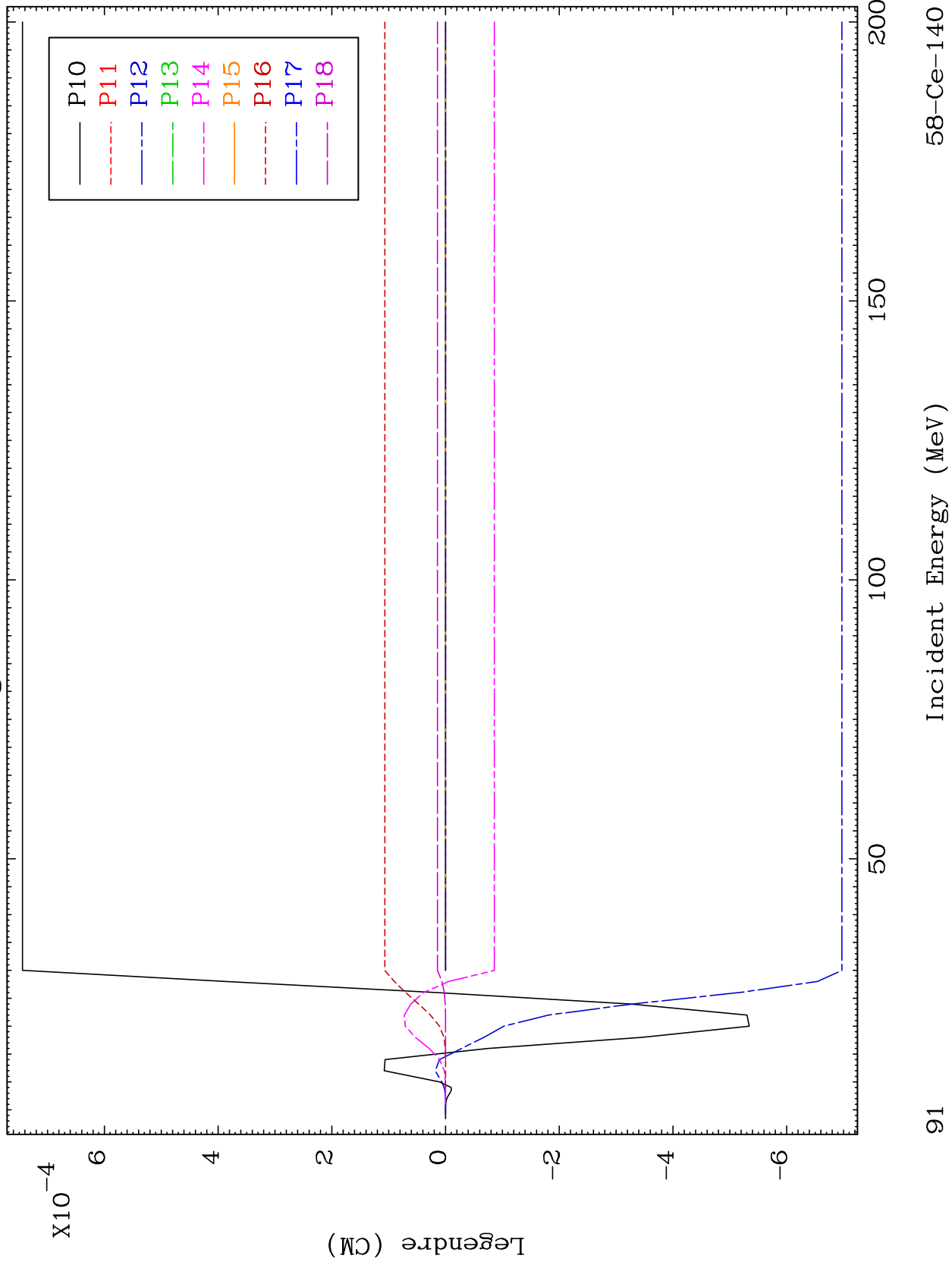
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



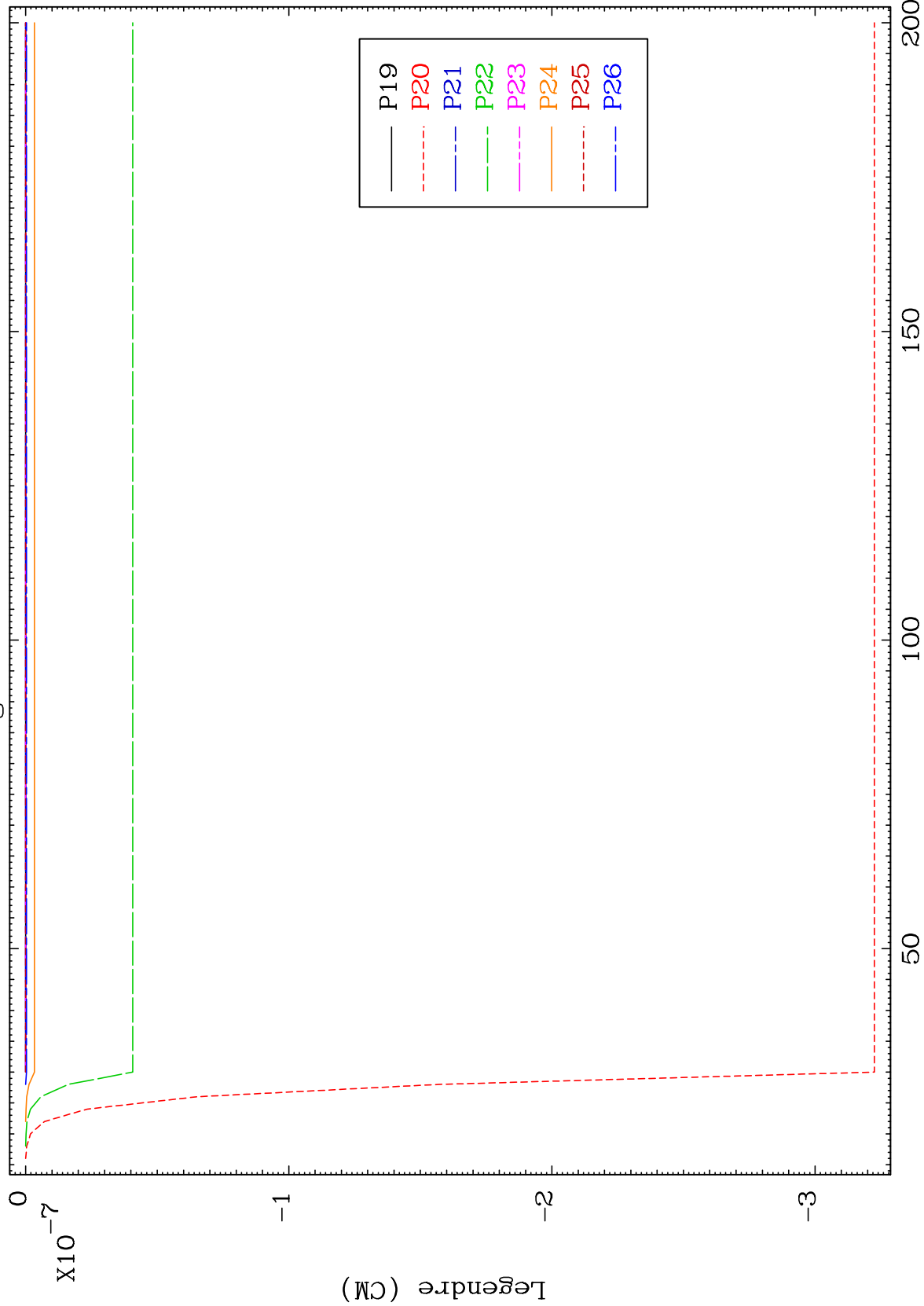
91

58-Ce-140

MAT 5837

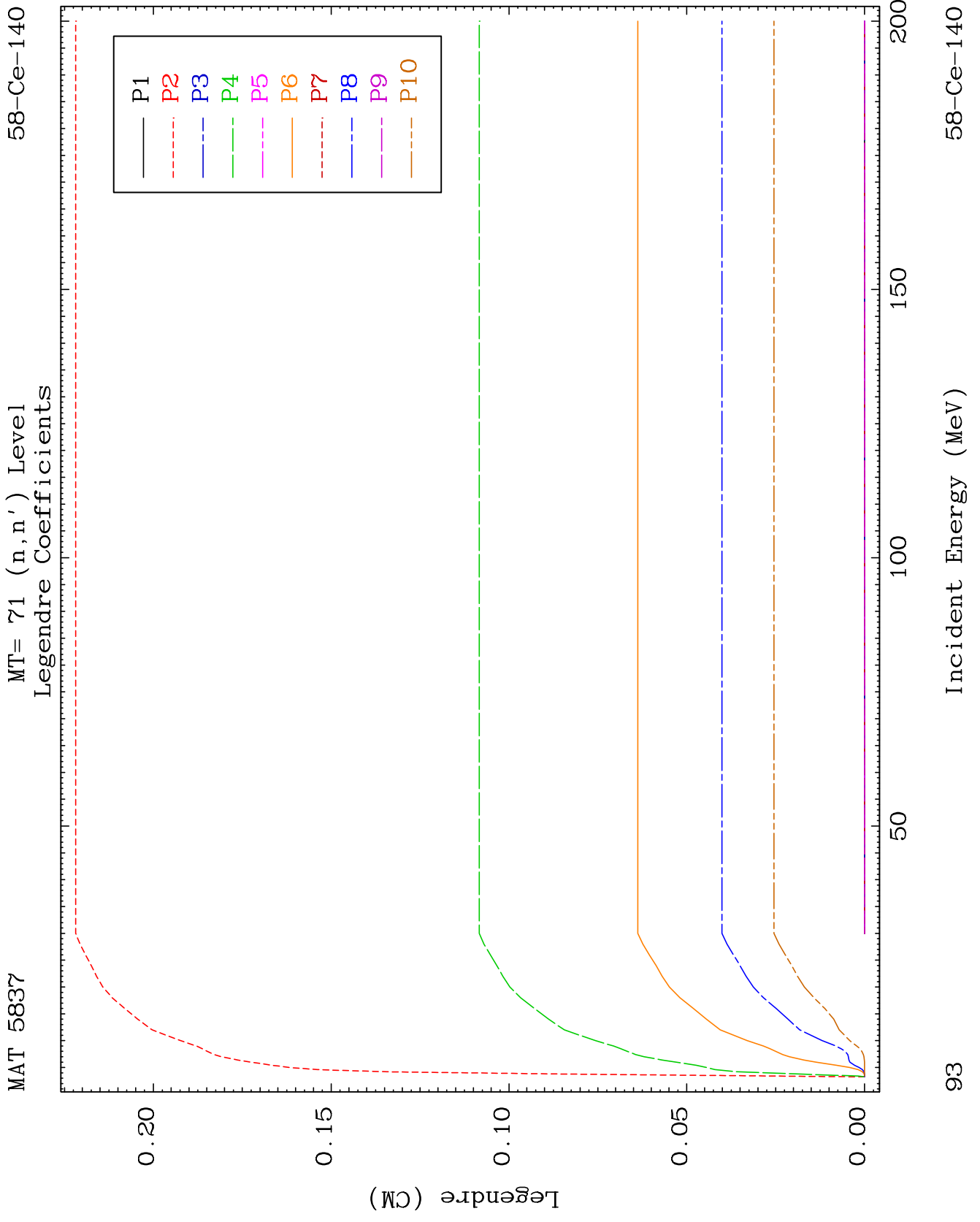
MT= 70 (n,n') Level  
Legendre Coefficients

58-Ce-140



92

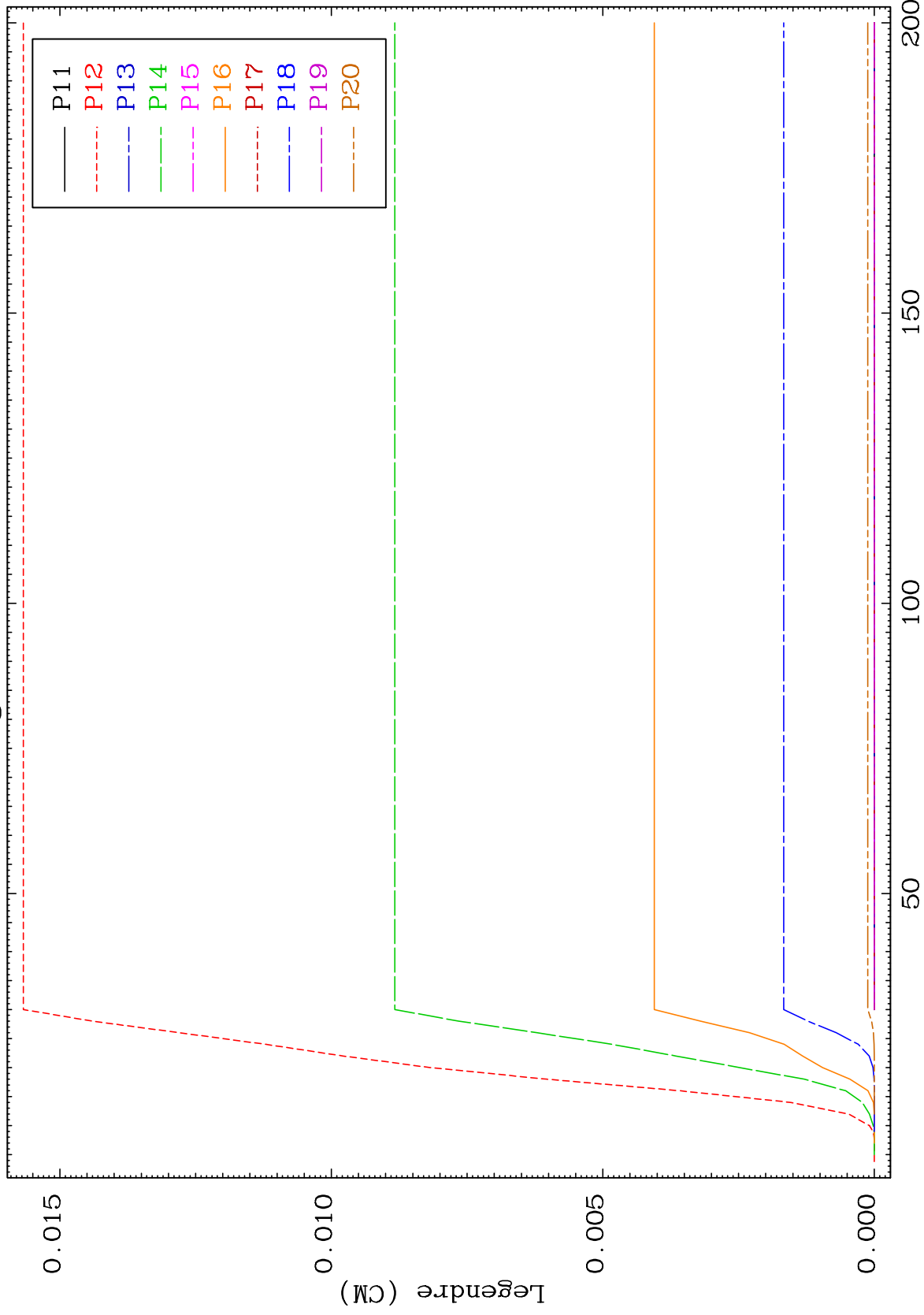
58-Ce-140



MAT 5837

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

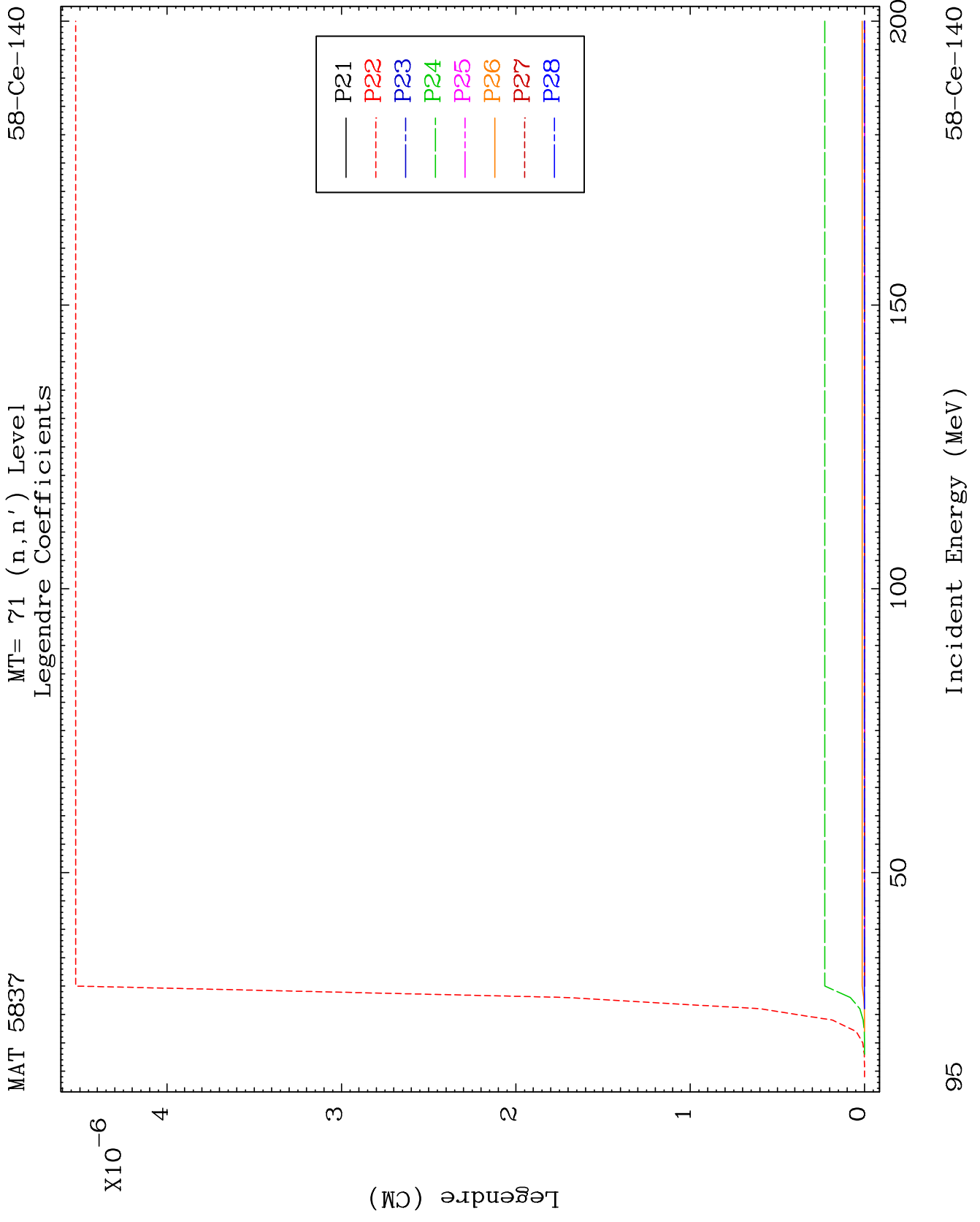
58-Ce-140



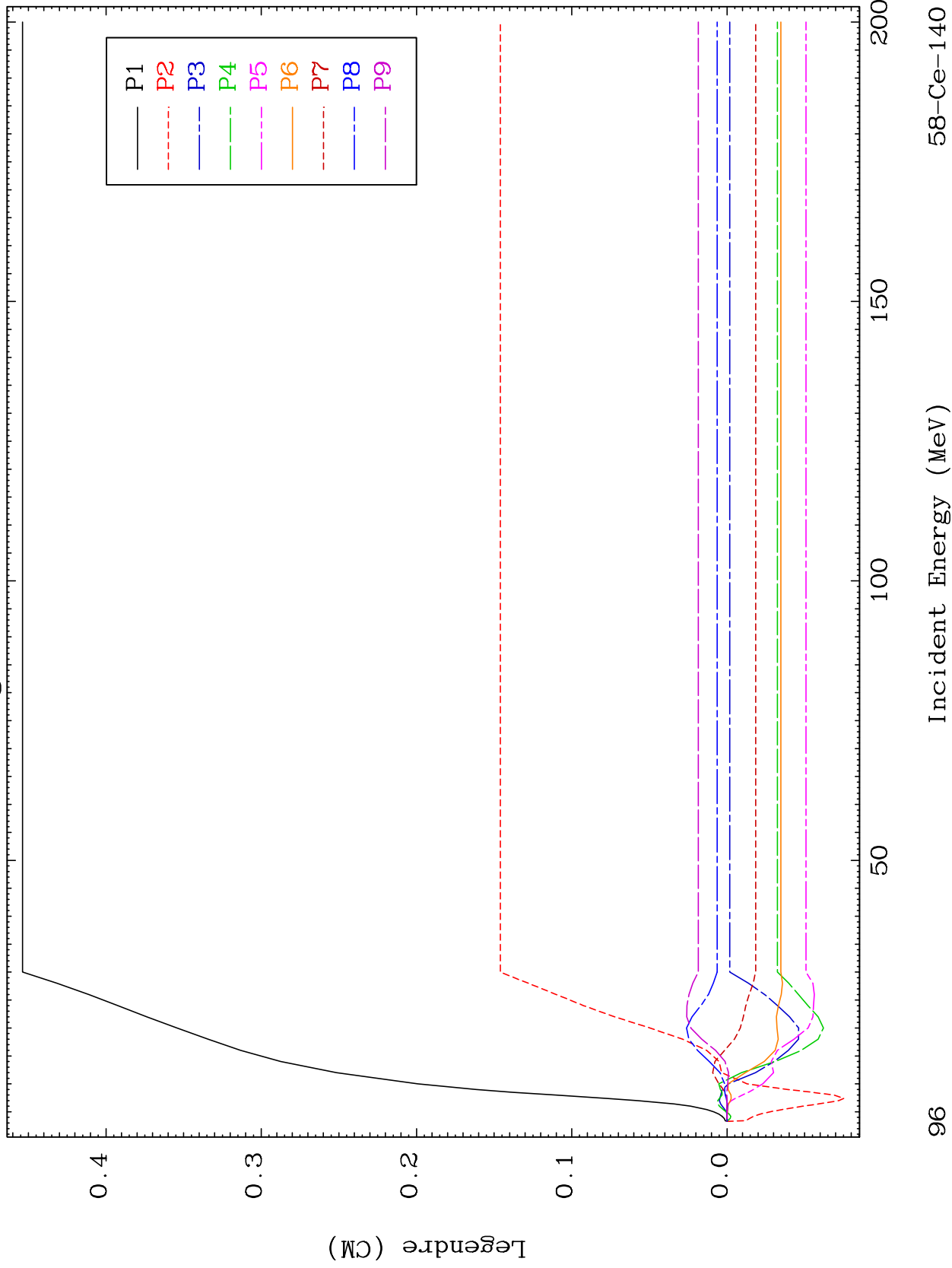
94

Incident Energy (MeV)

58-Ce-140



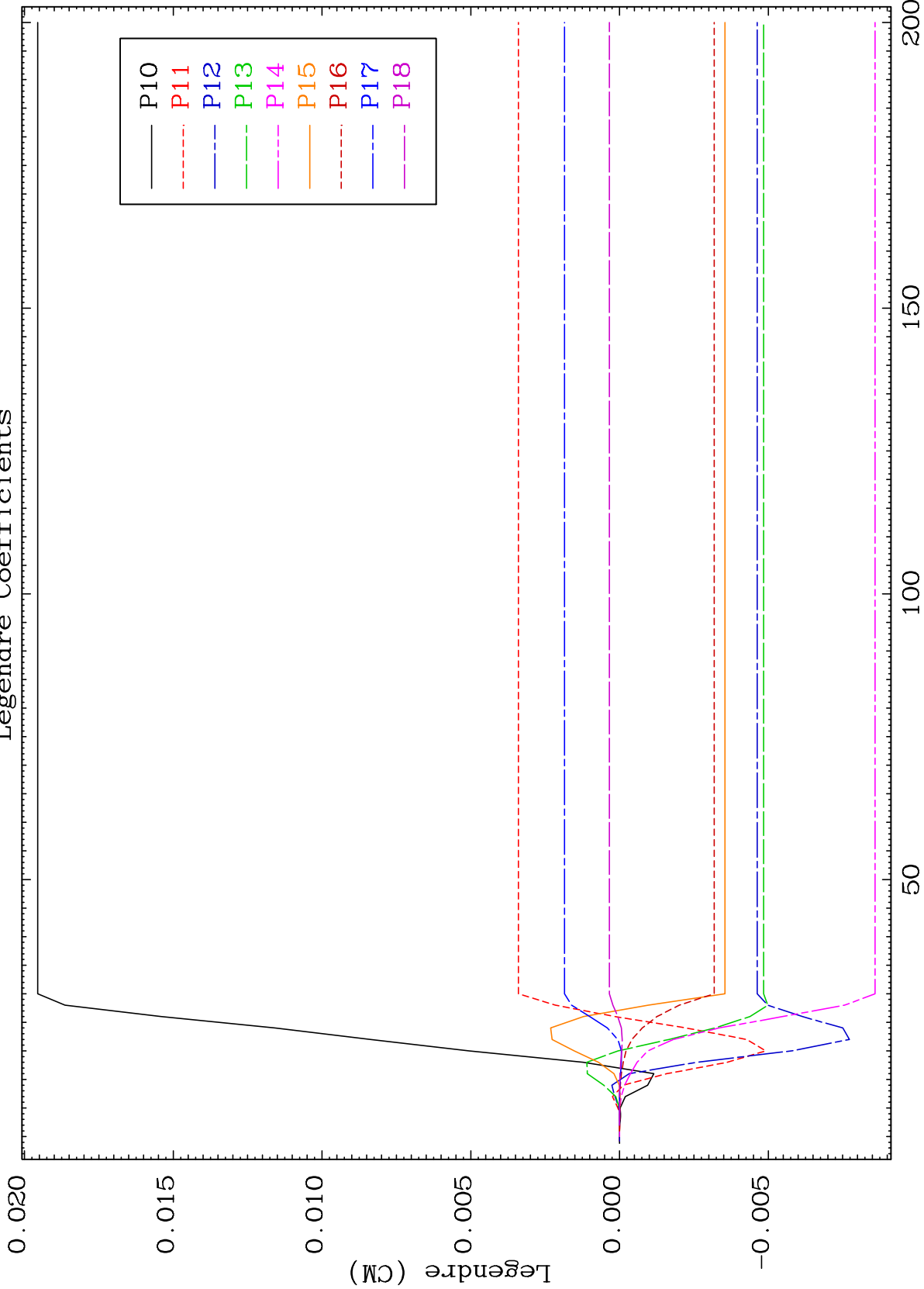




MAT 5837

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

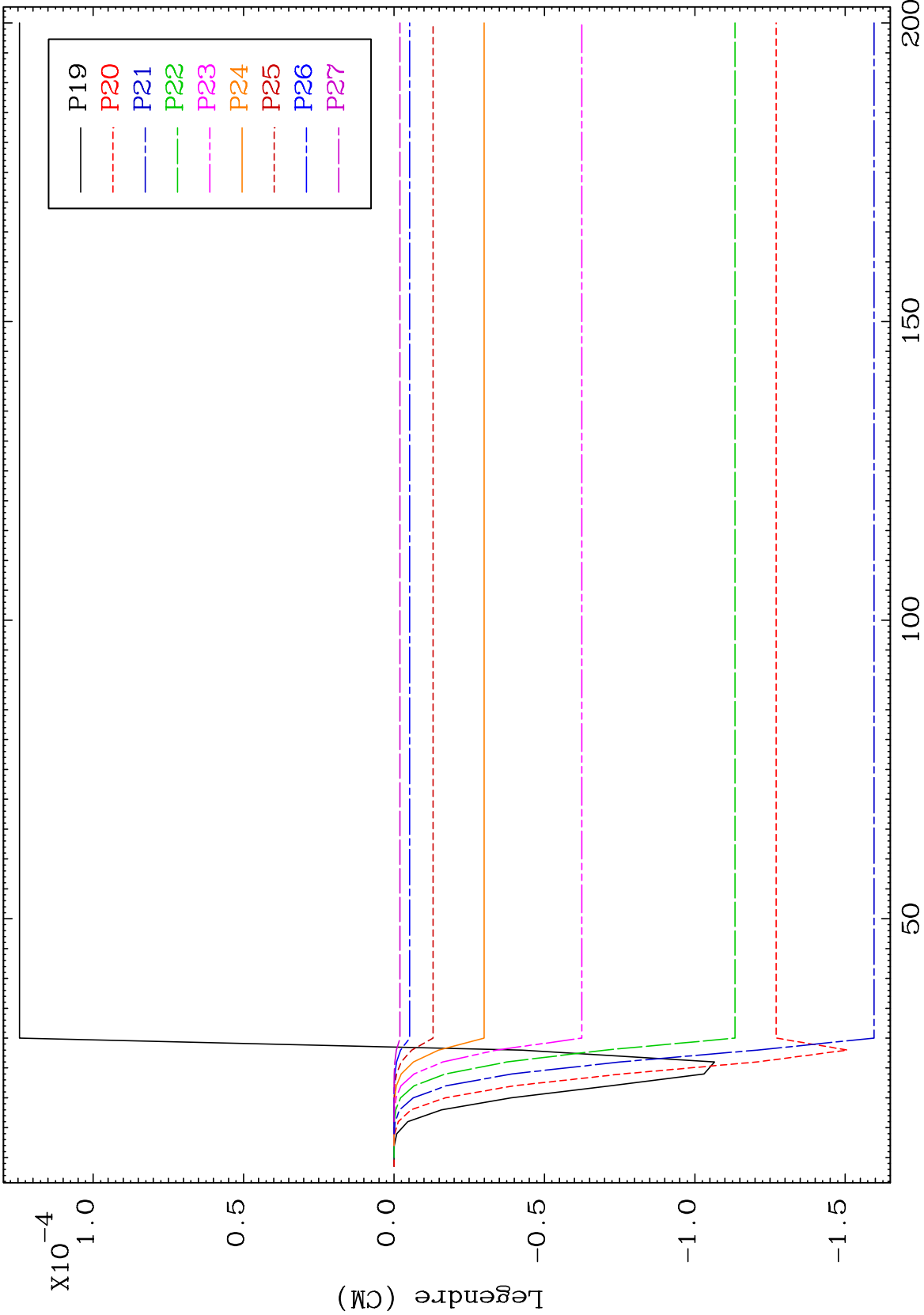
58-Ce-140



MAT 5837

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

58-Ce-140



98

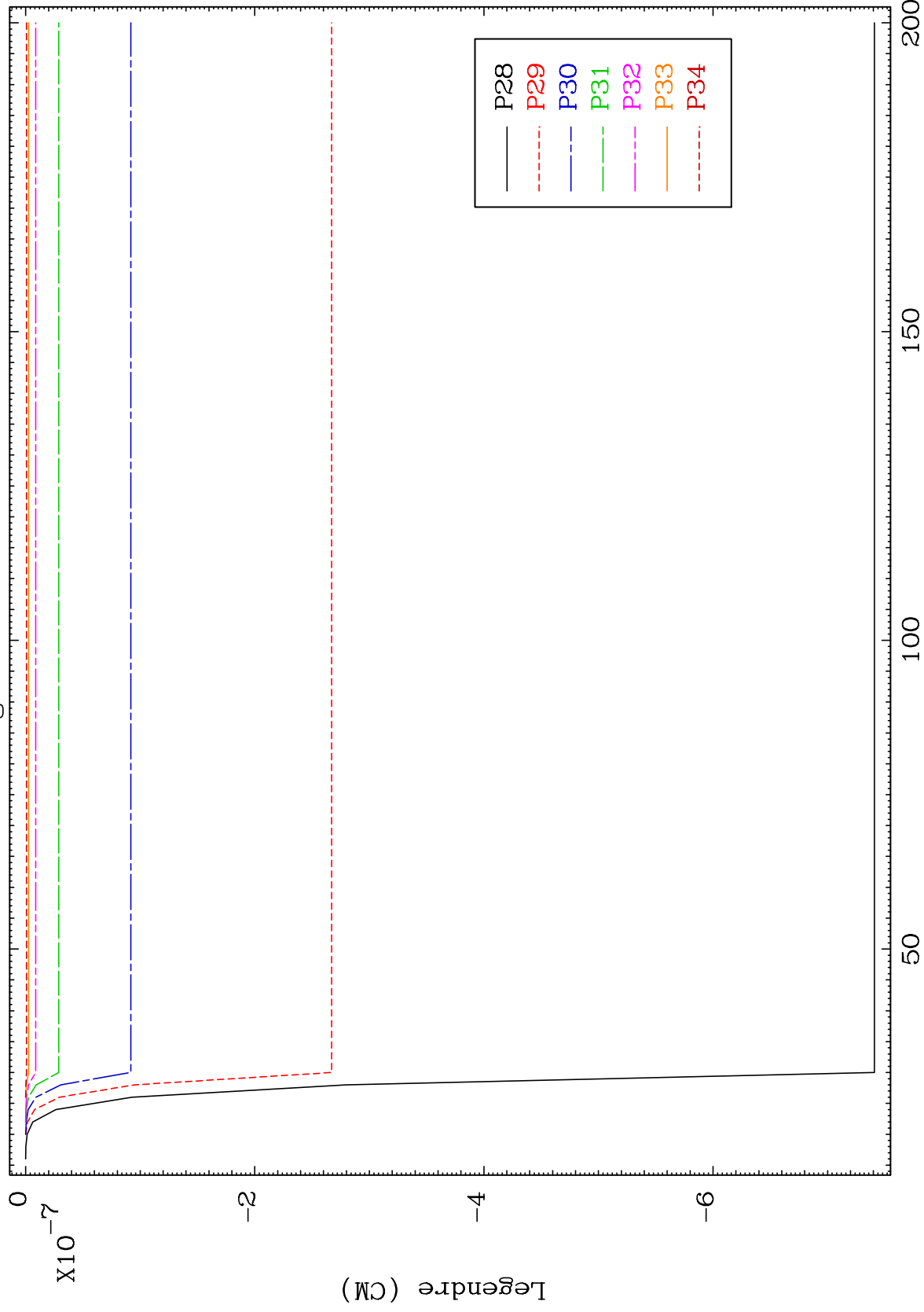
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140

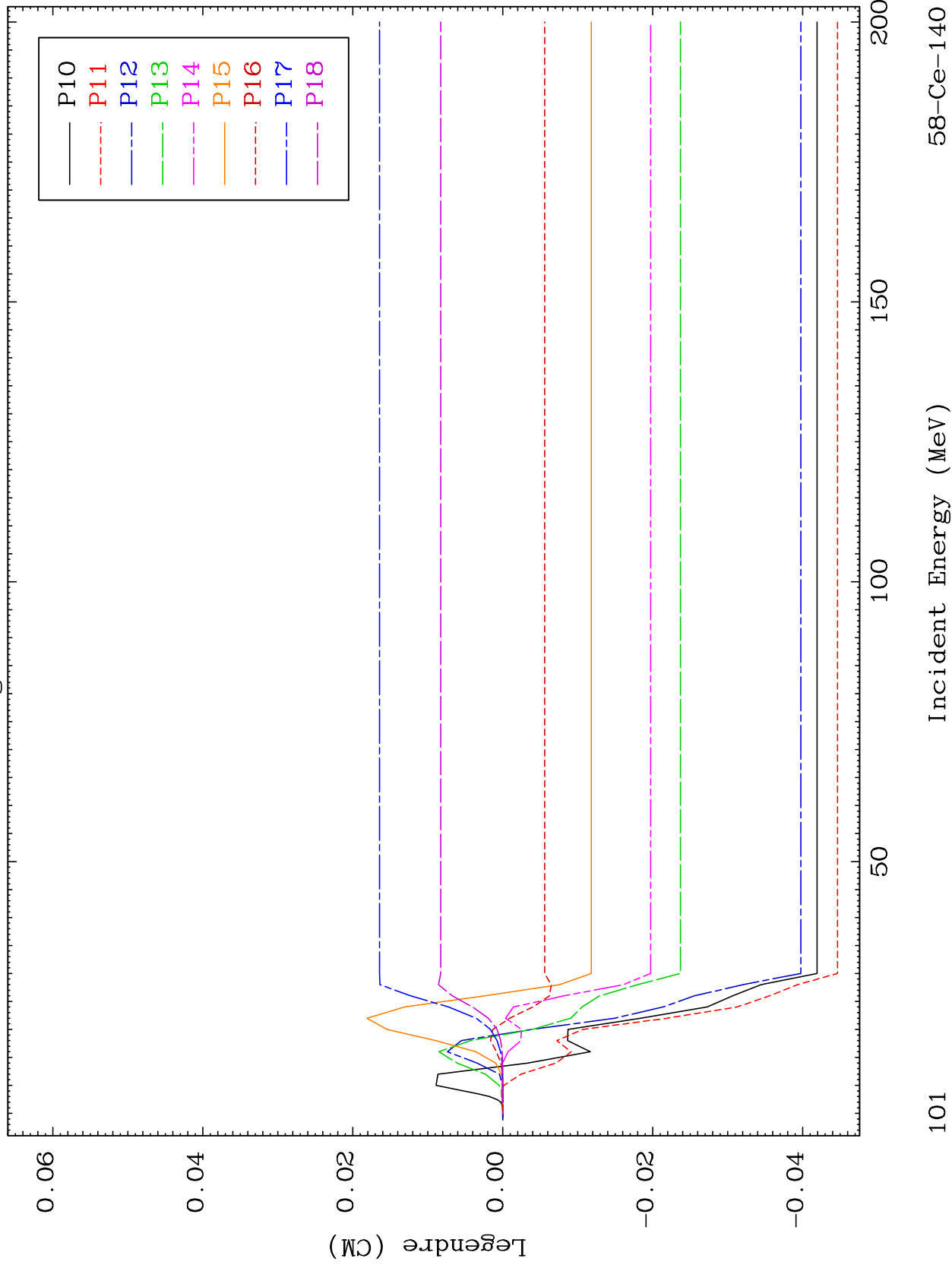




MAT 5837

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

58-Ce-140



101

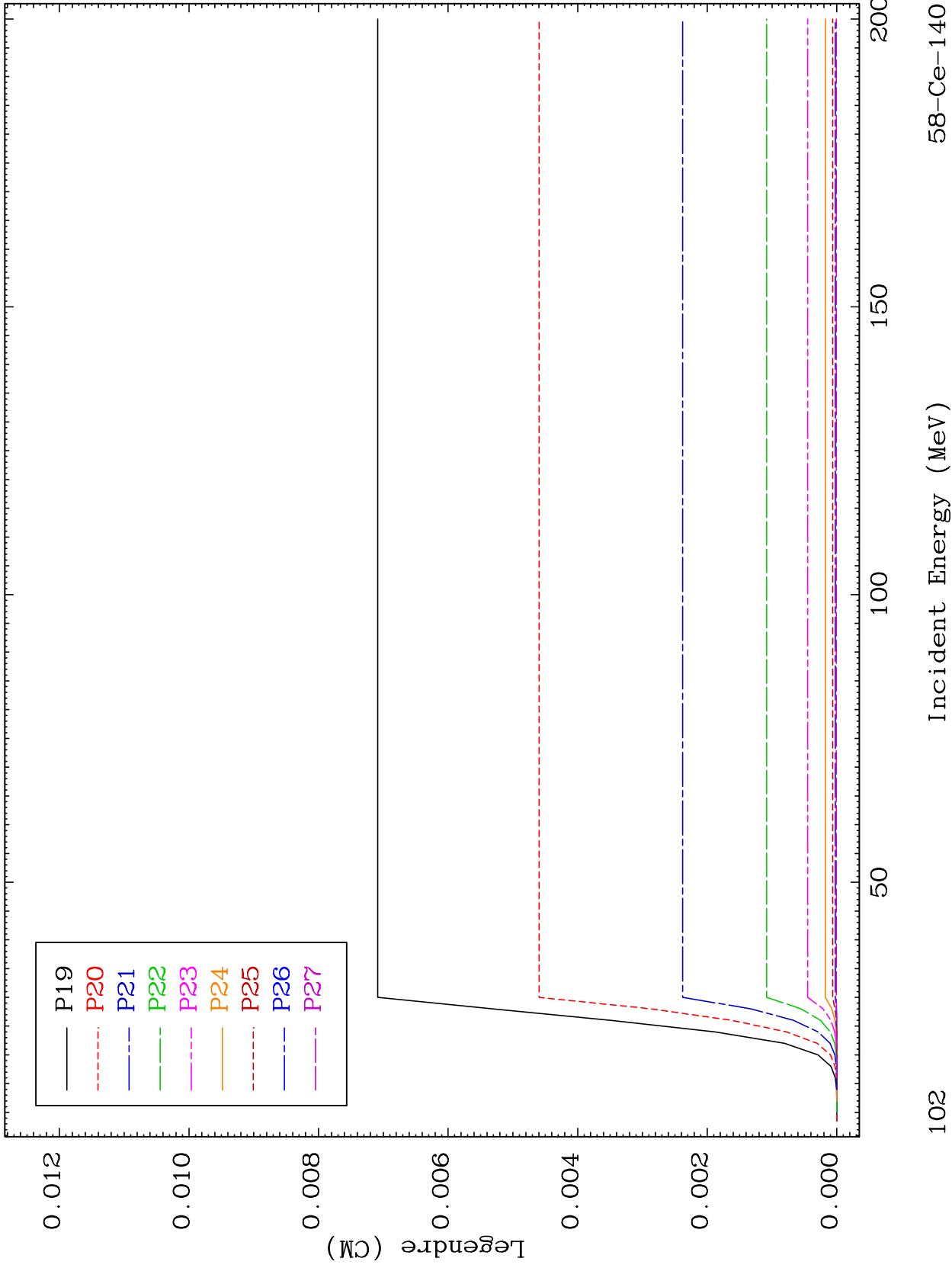
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



102

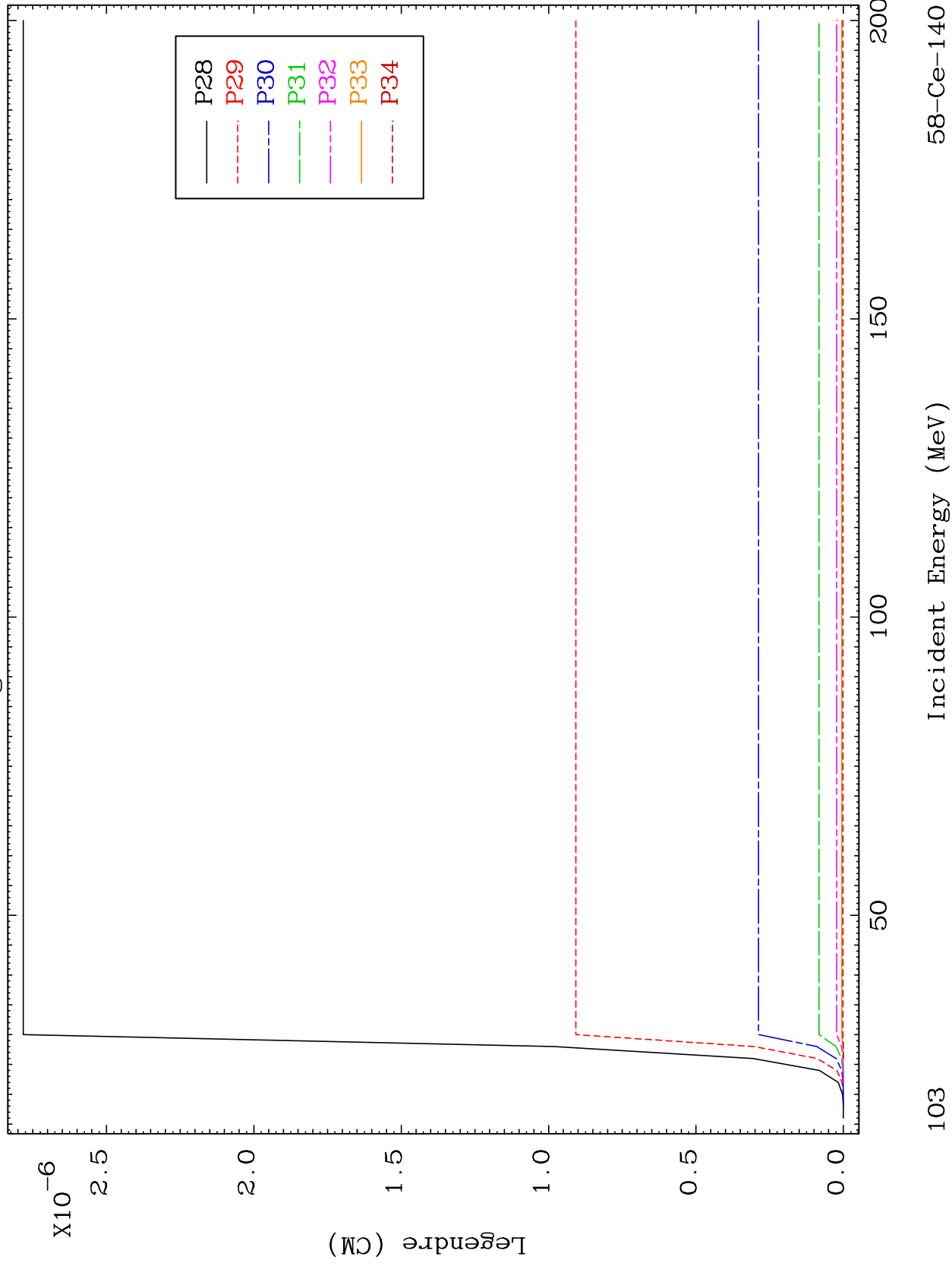
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



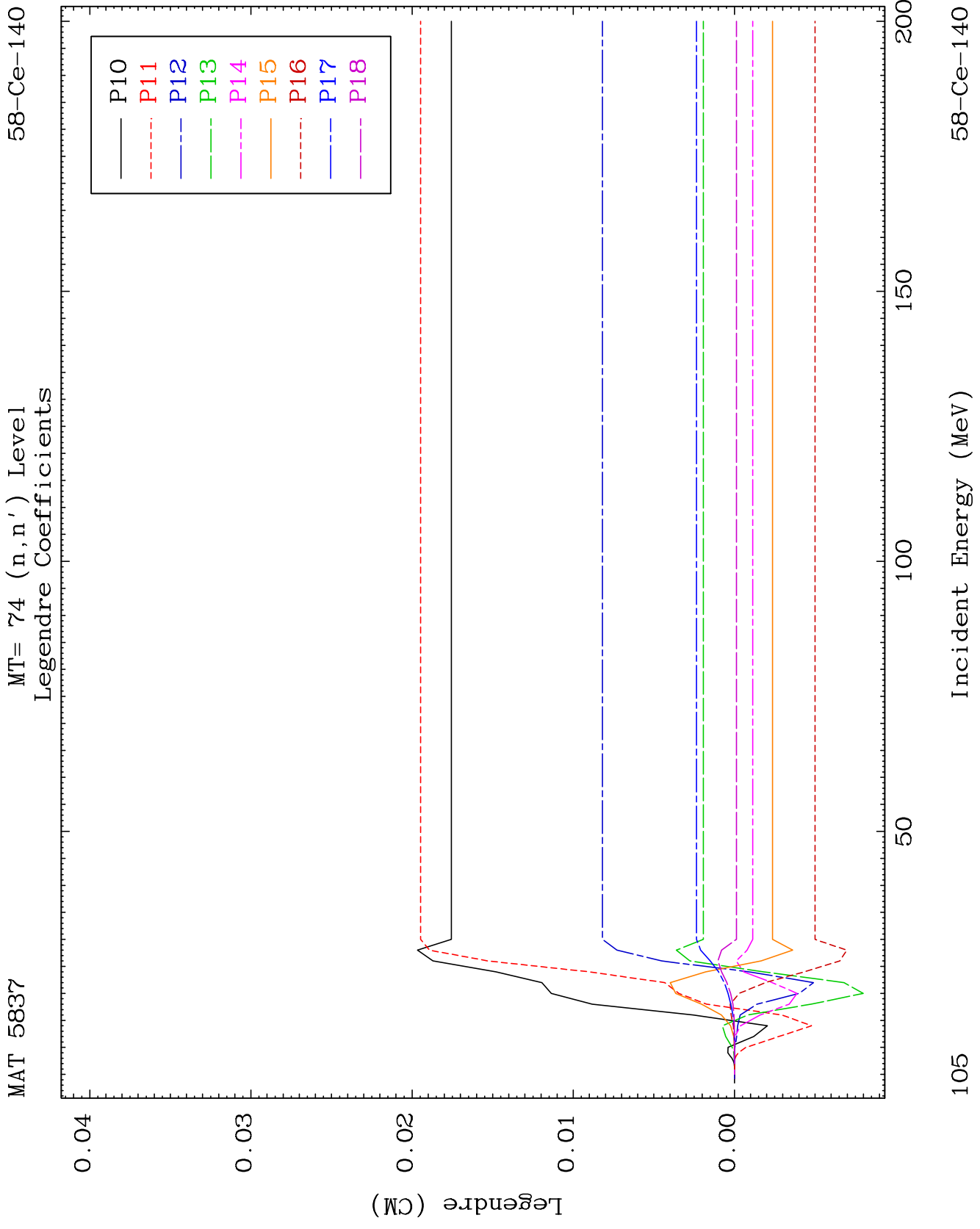
103

Incident Energy (MeV)

58-Ce-140



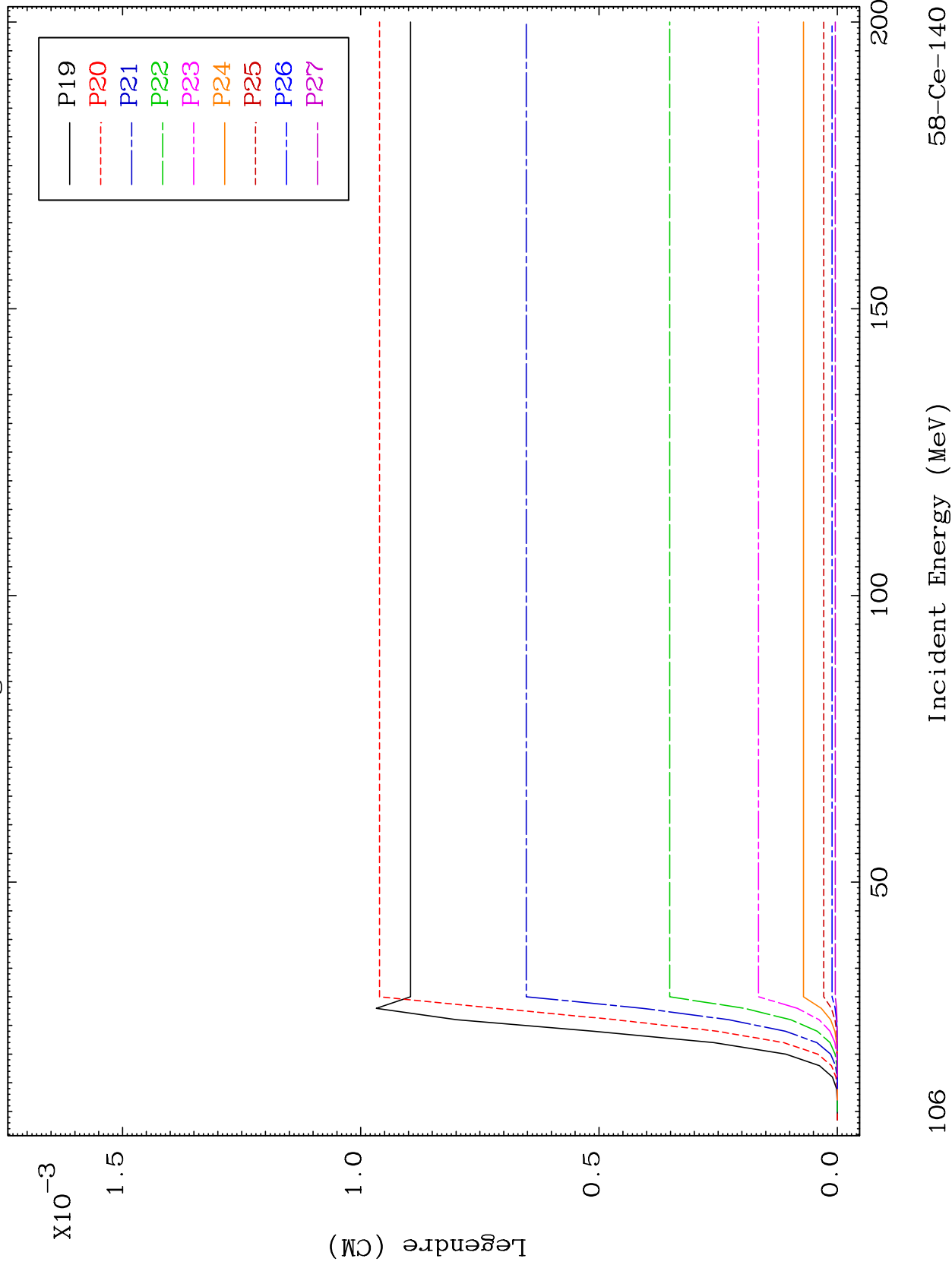




MAT 5837

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

58-Ce-140



106

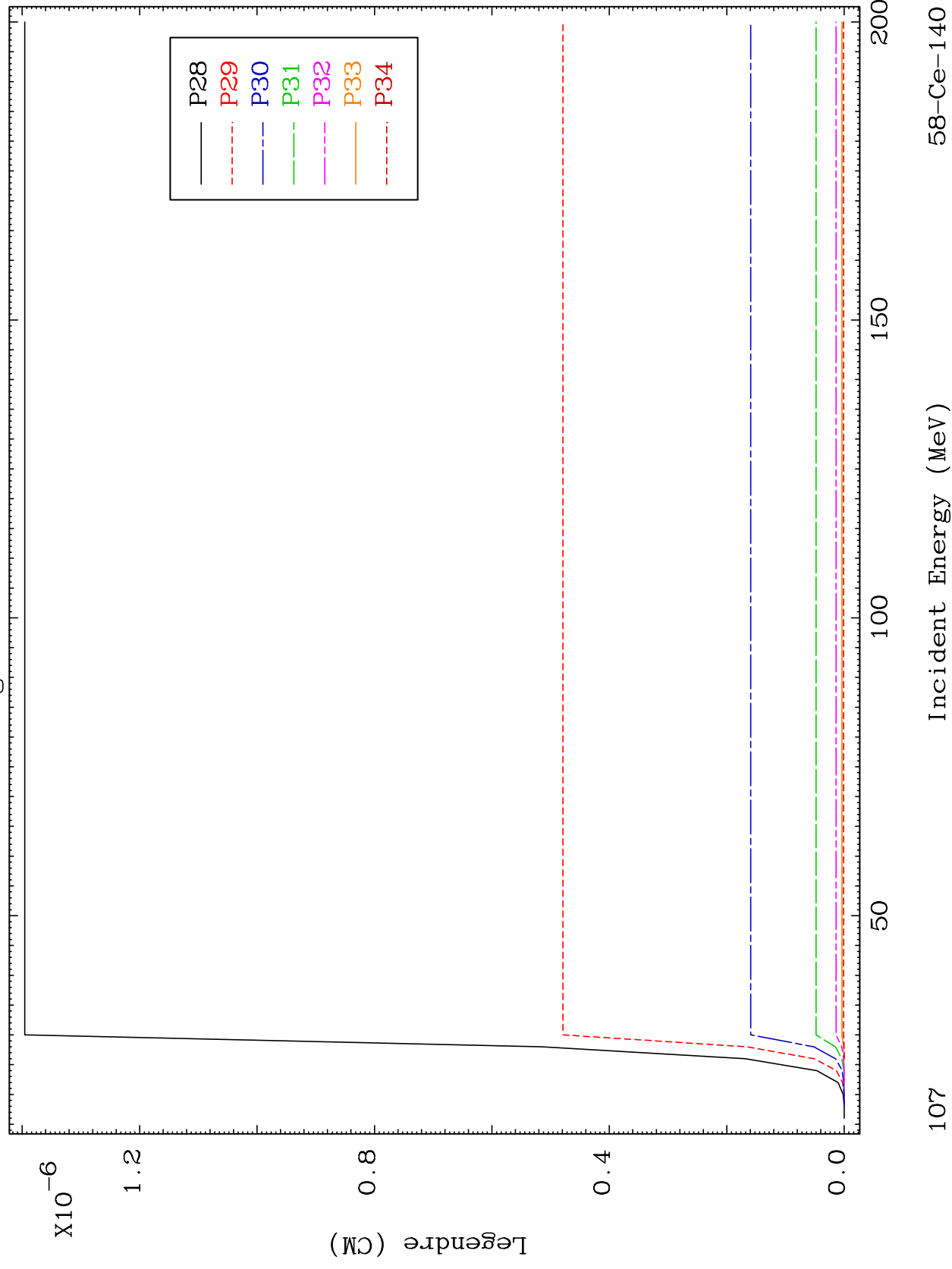
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140

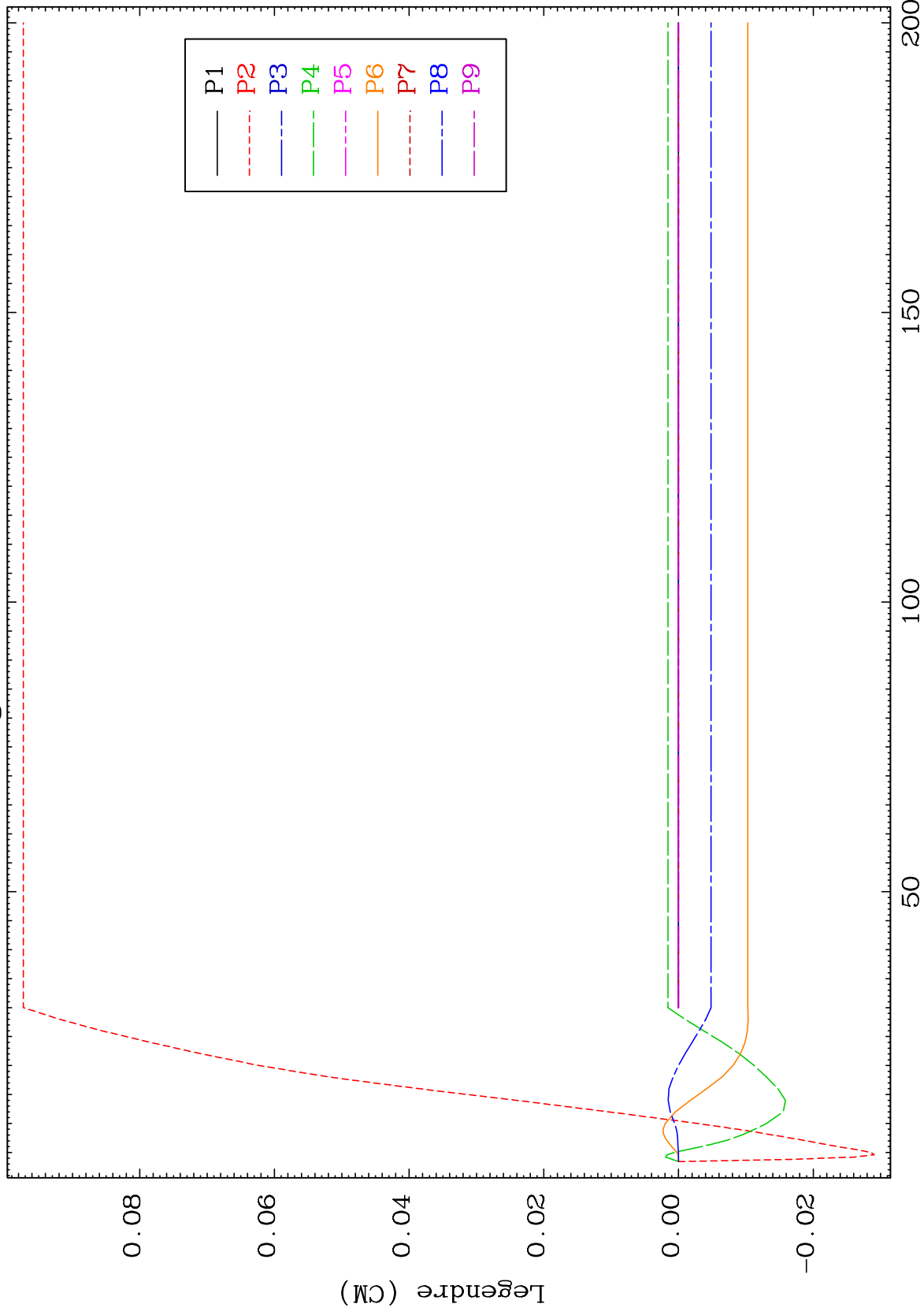


107

MAT 5837

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

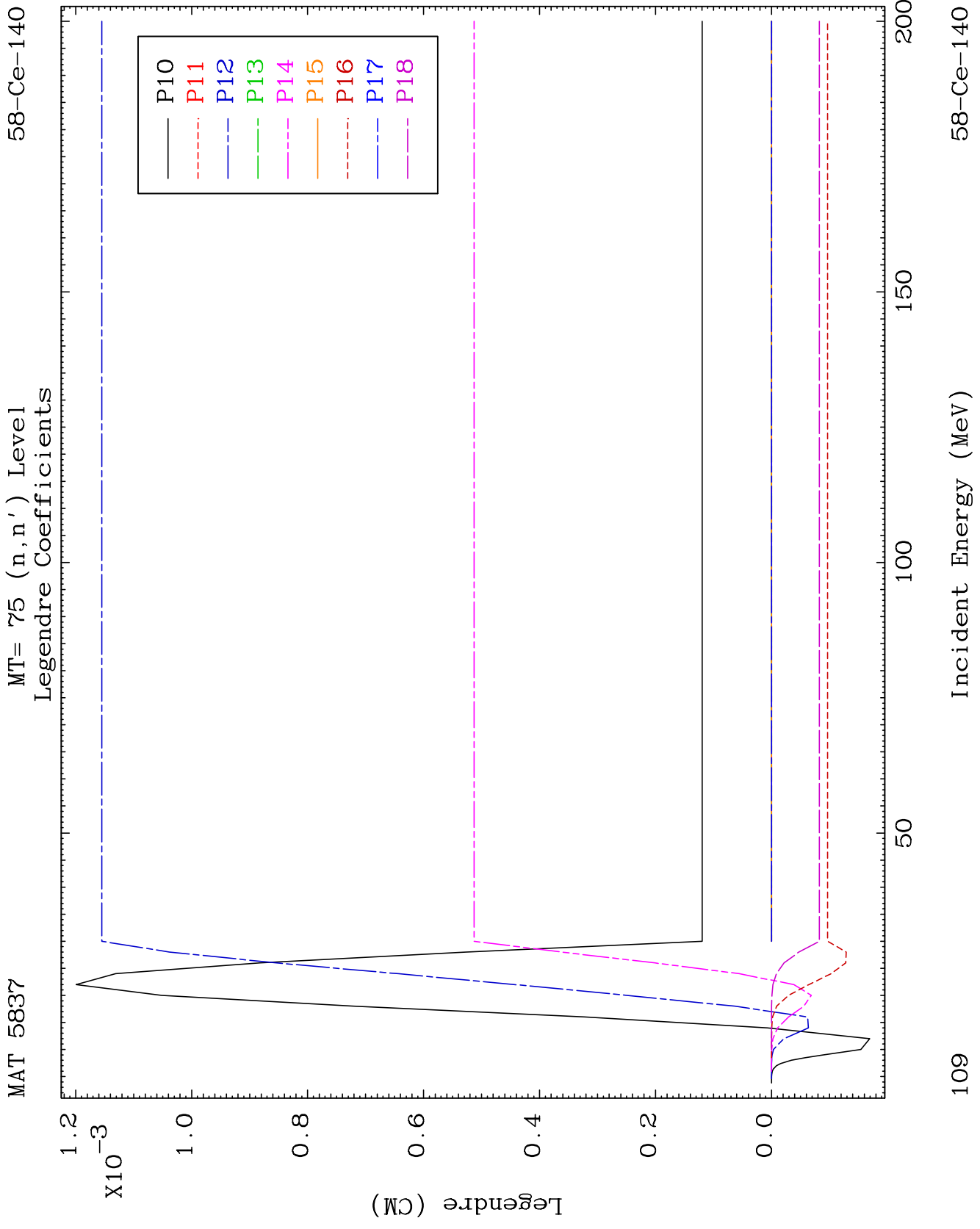
58-Ce-140

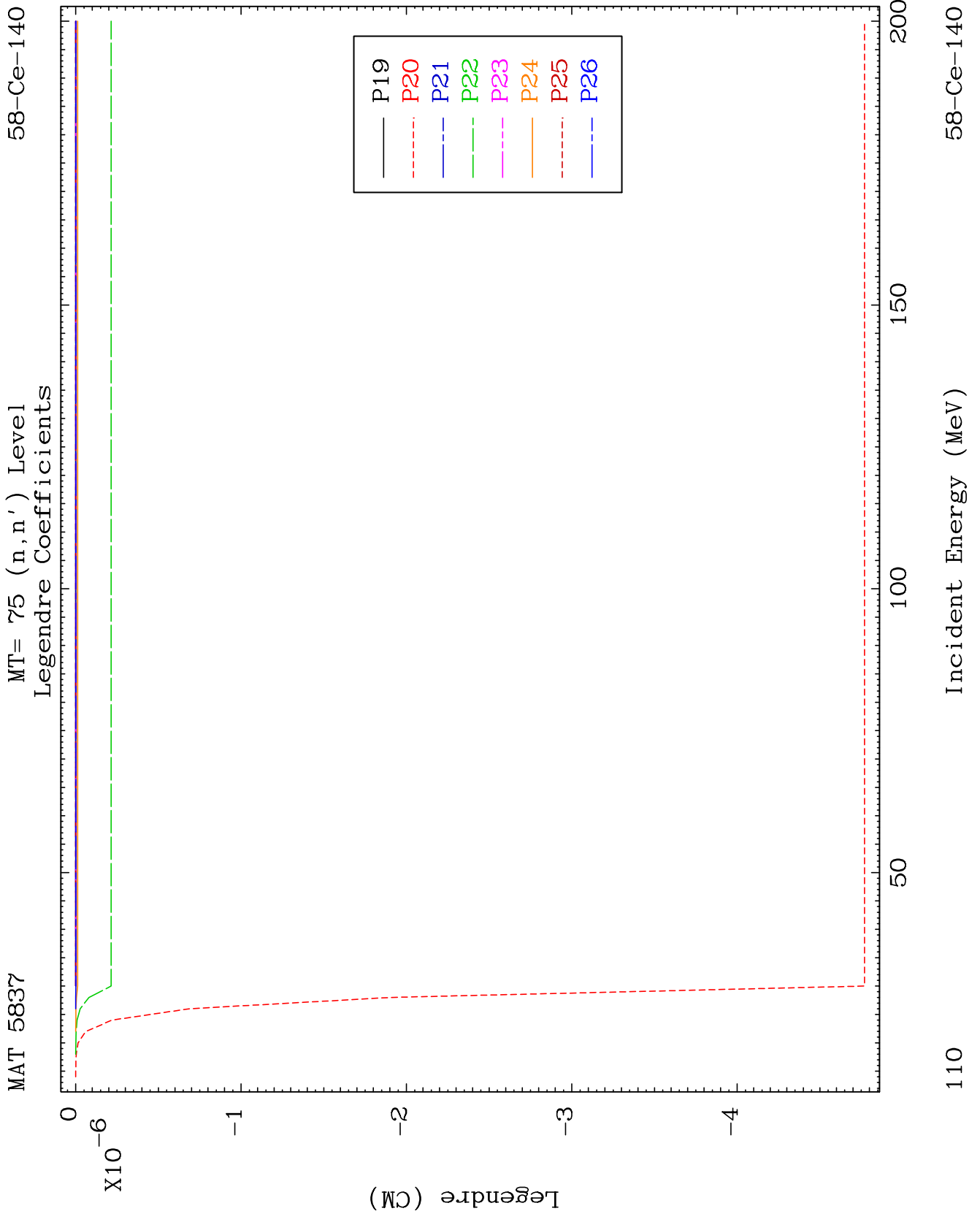


108

Incident Energy (MeV)

58-Ce-140

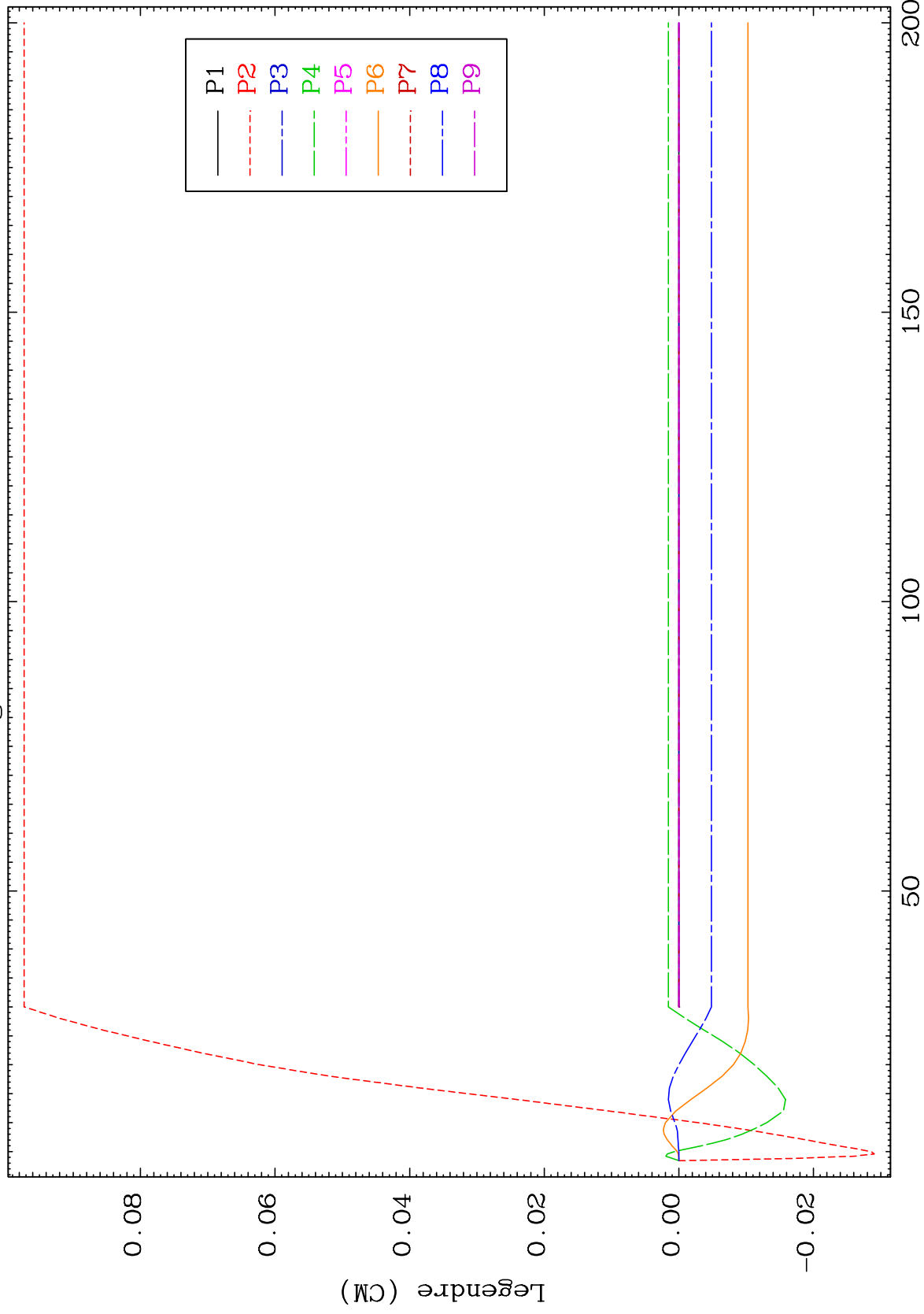




MAT 5837

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

58-Ce-140



111

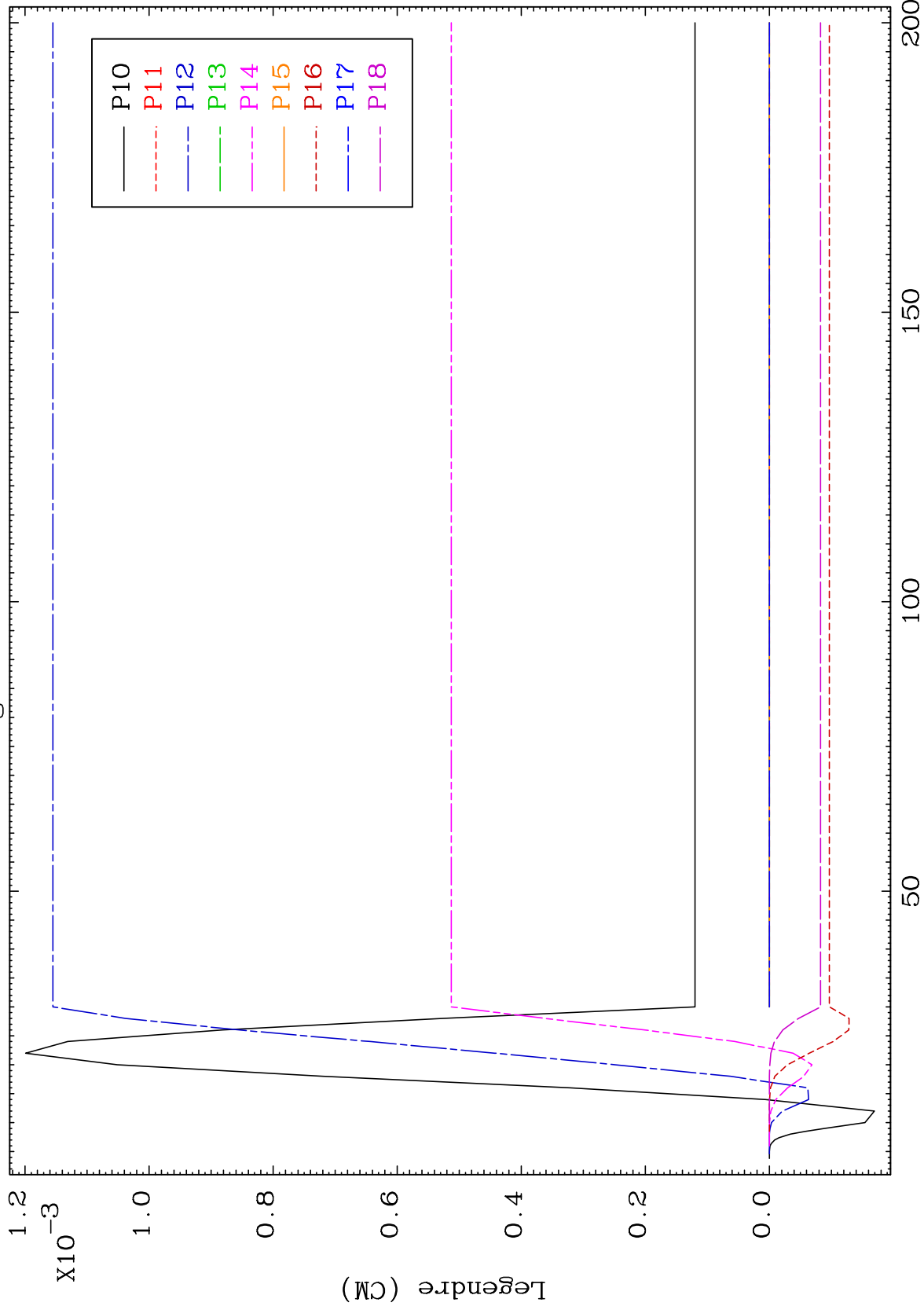
58-Ce-140



MAT 5837

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

58-Ce-140



112

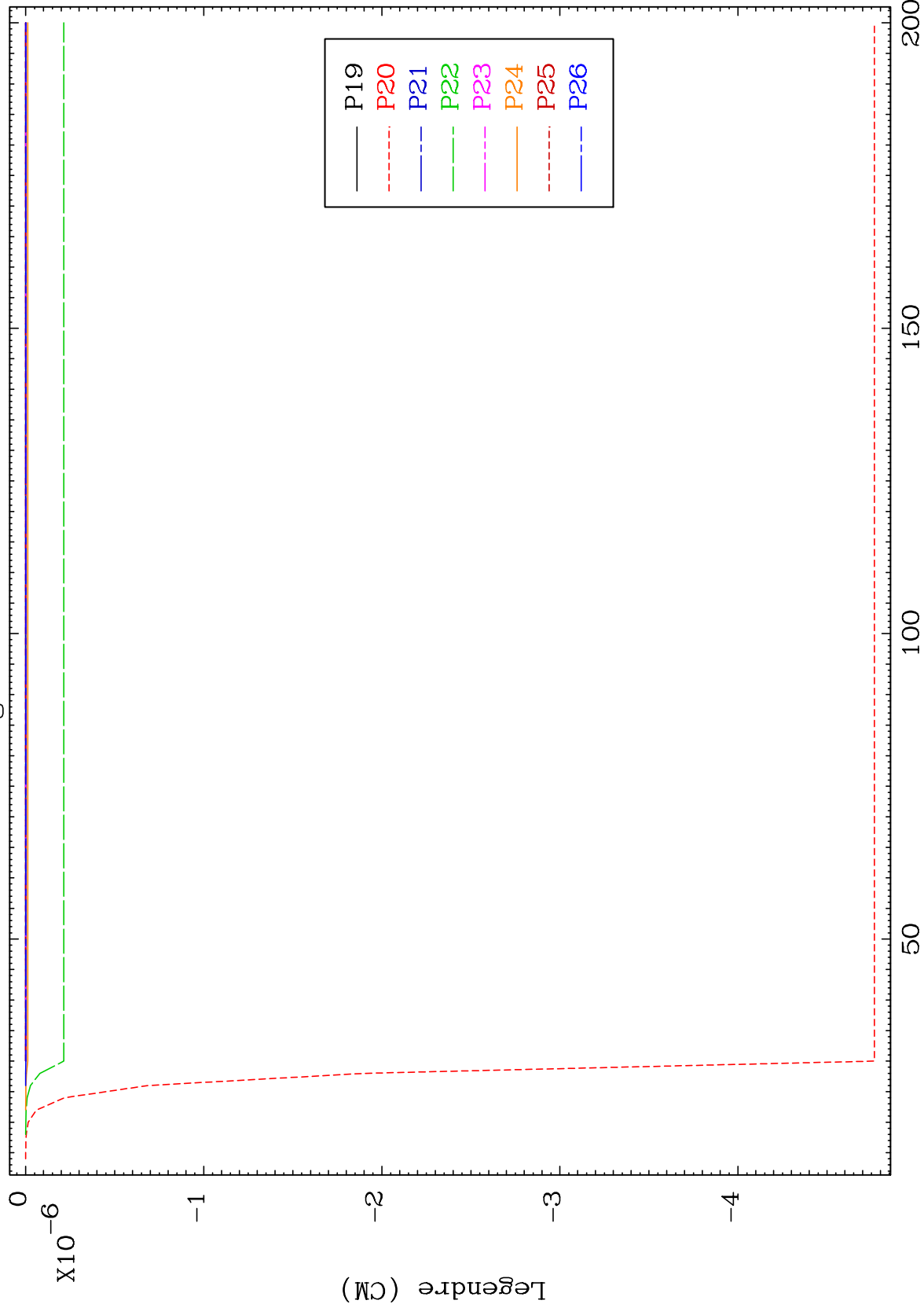
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



113

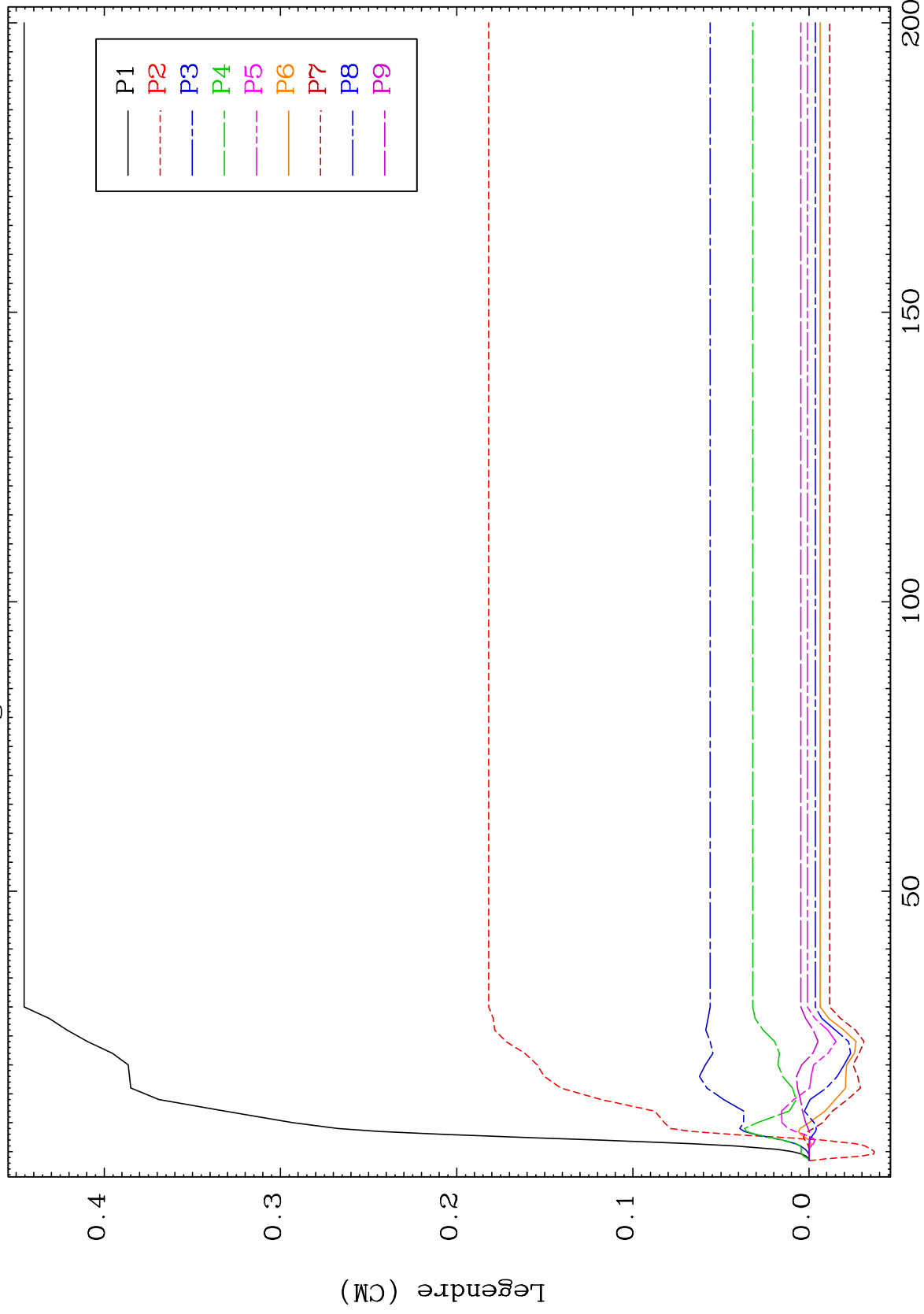
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



114

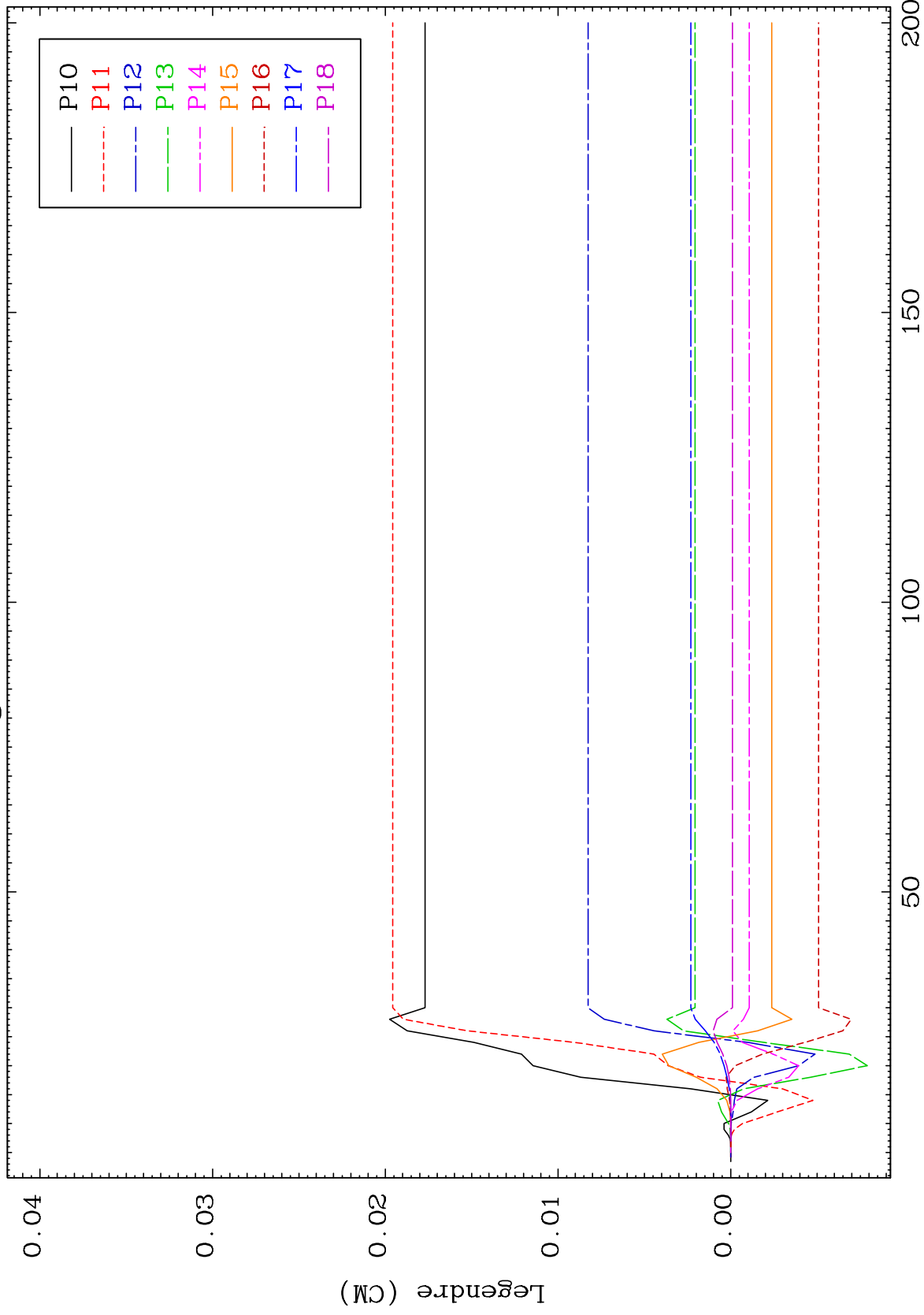
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



115

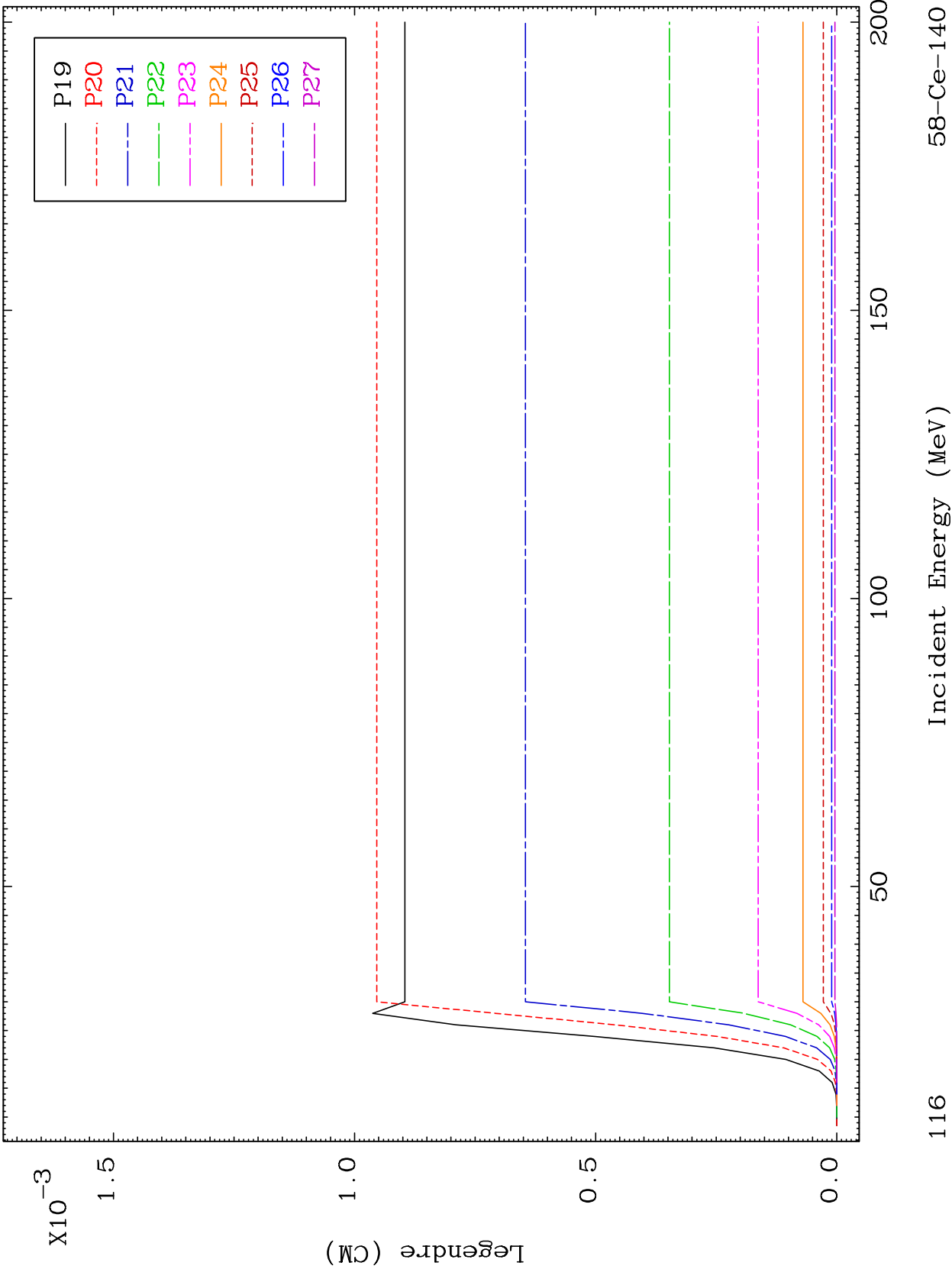
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



116

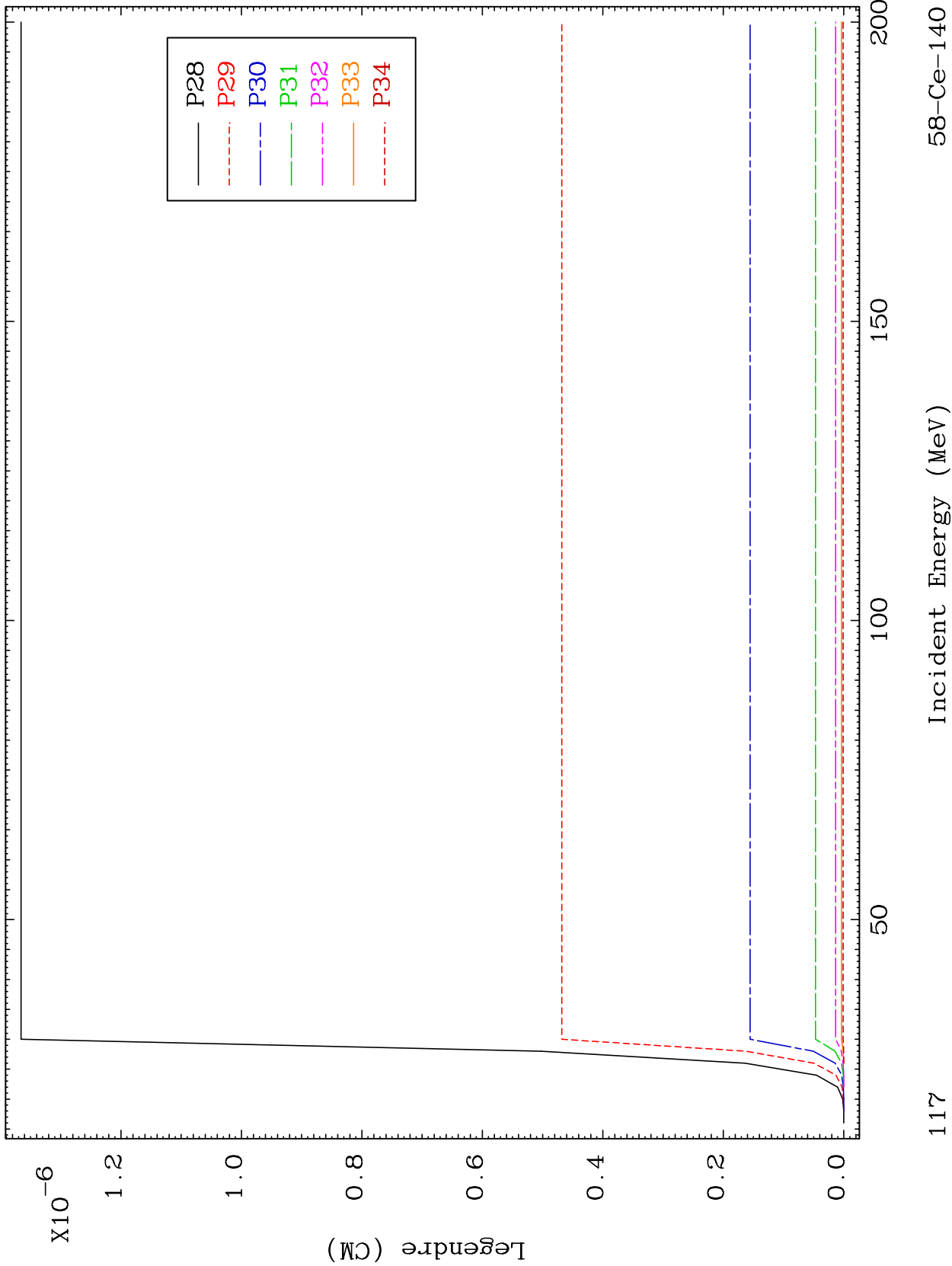
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



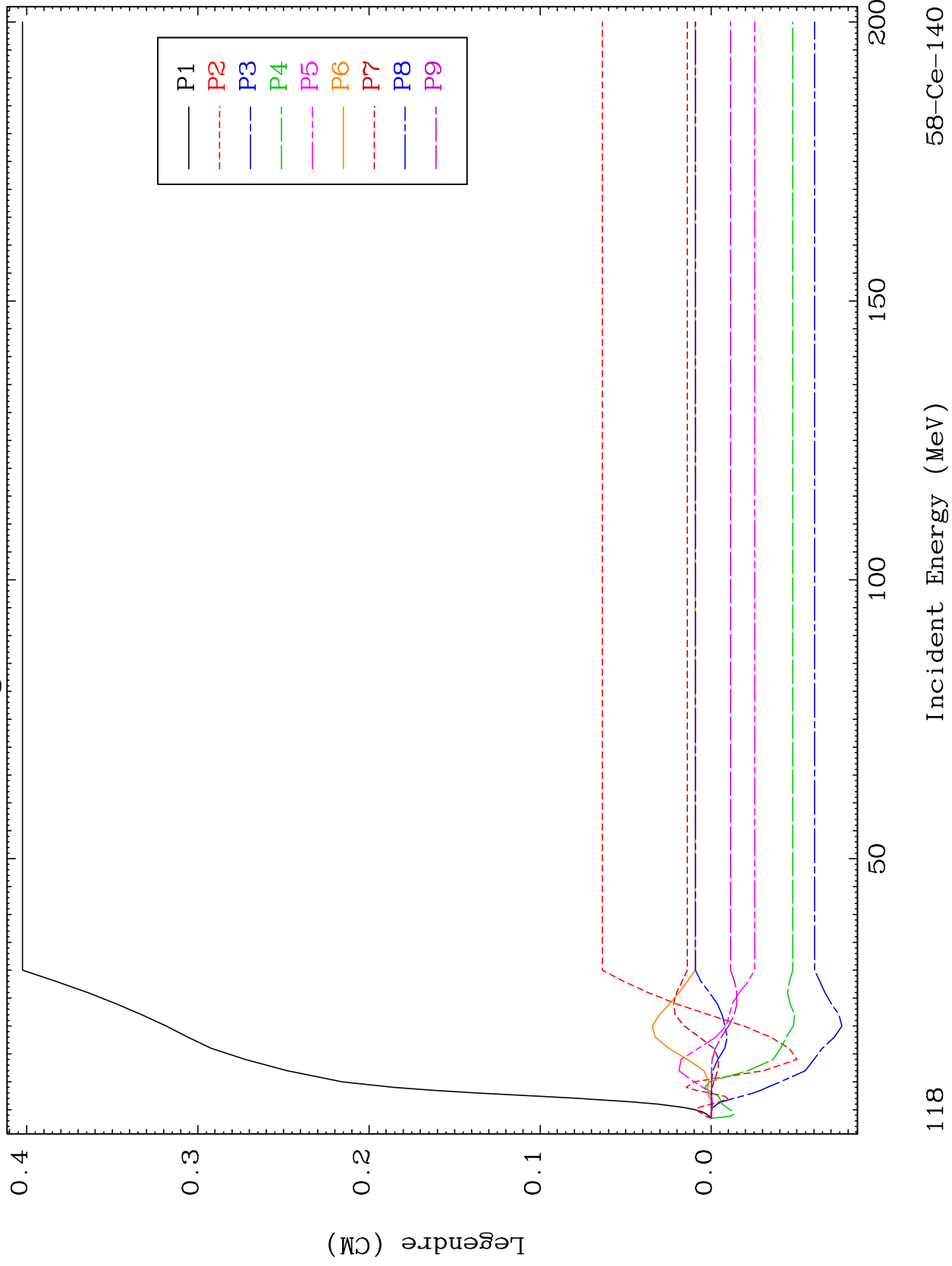
117

58-Ce-140

MAT 5837

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

58-Ce-140



118

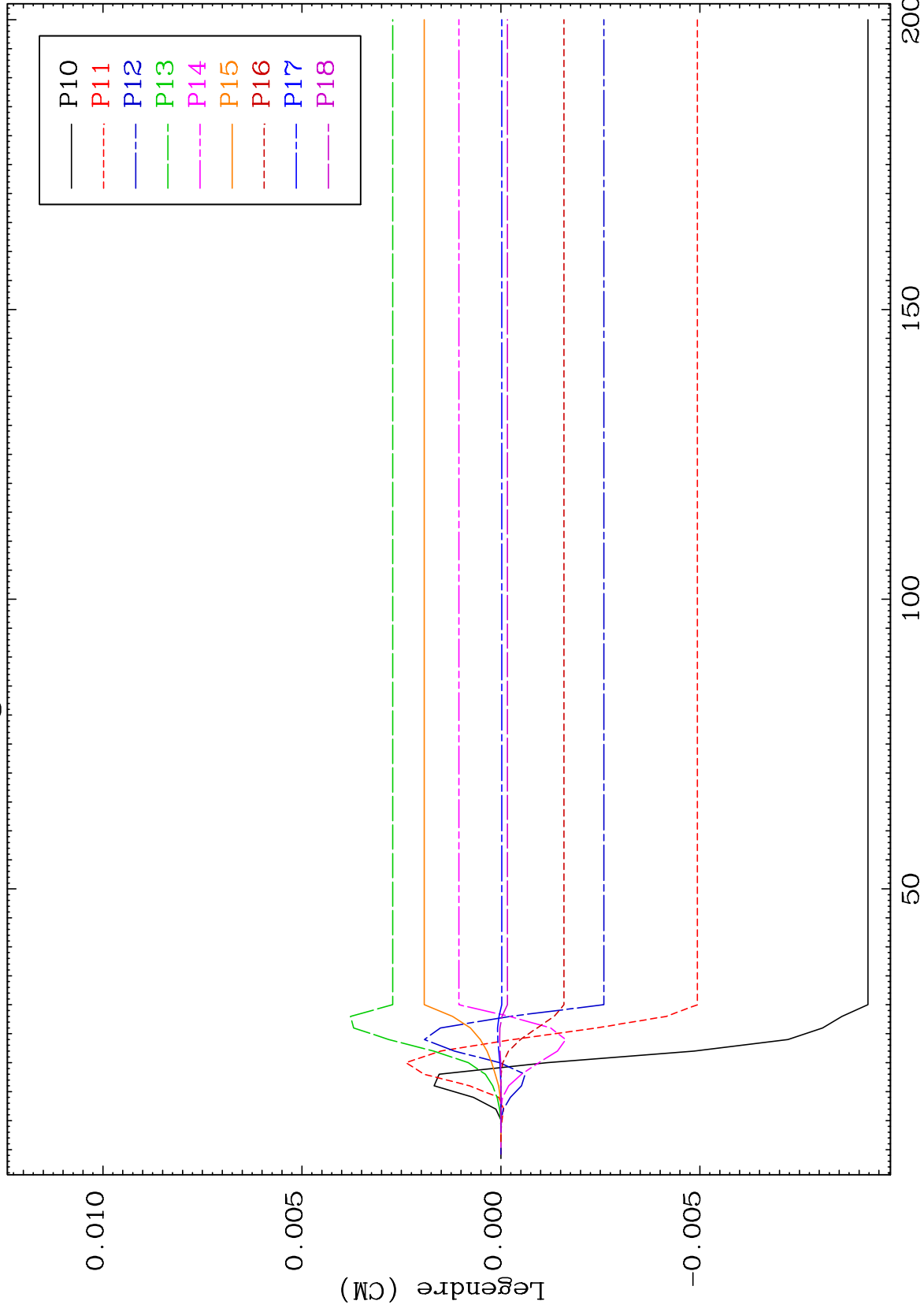
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



119

Incident Energy (MeV)

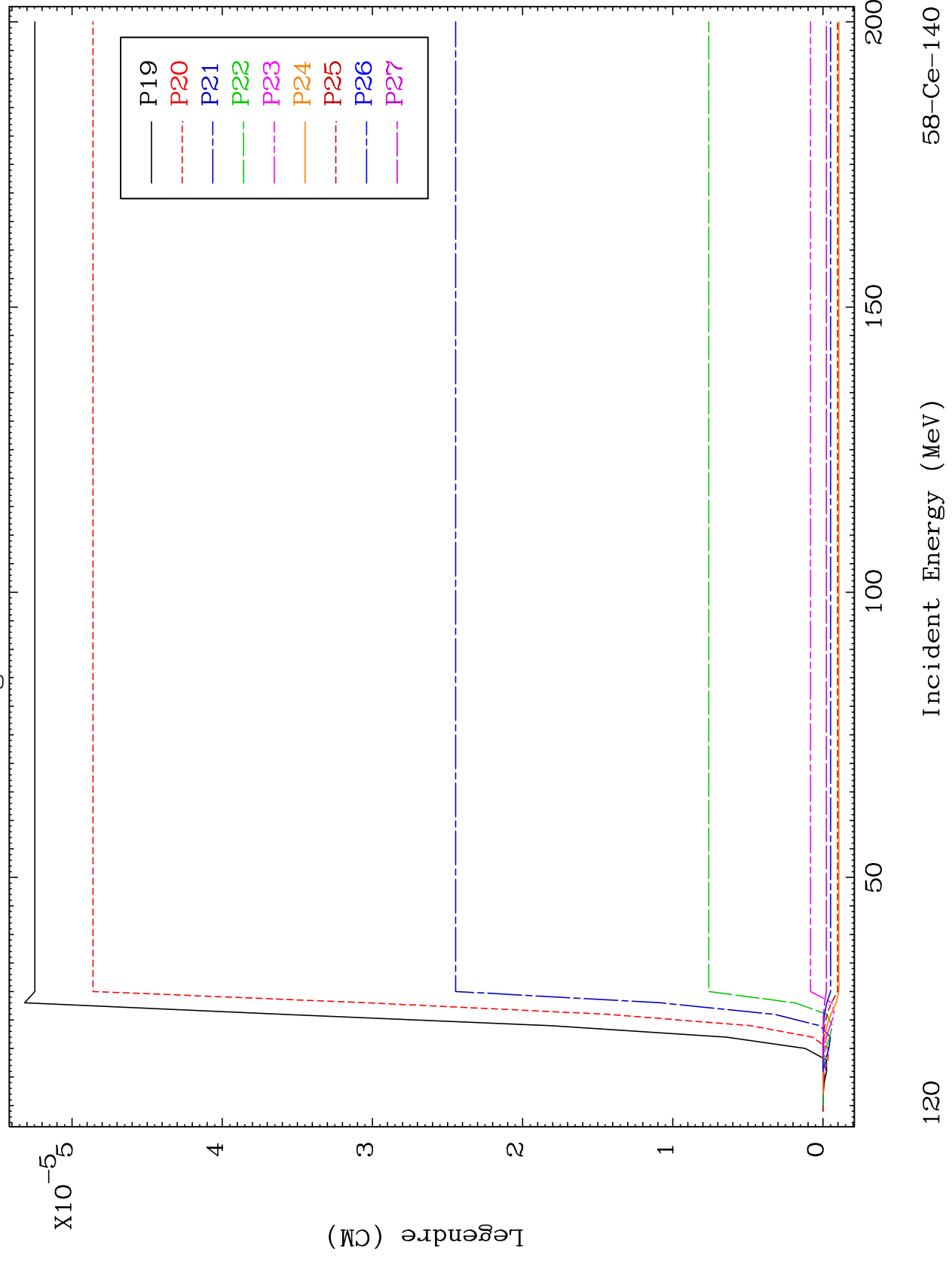
58-Ce-140



MAT 5837

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

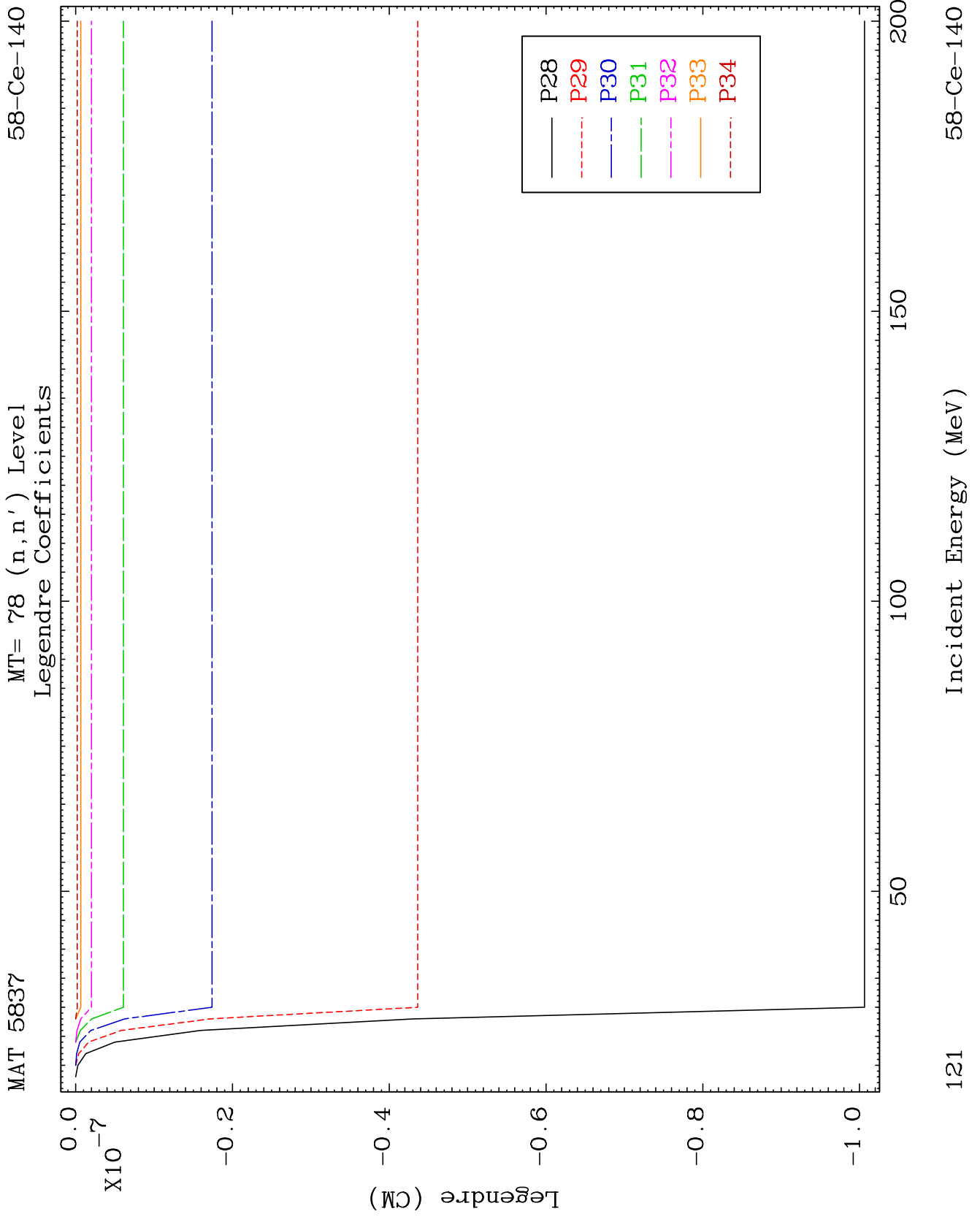
58-Ce-140



58-Ce-140

Incident Energy (MeV)

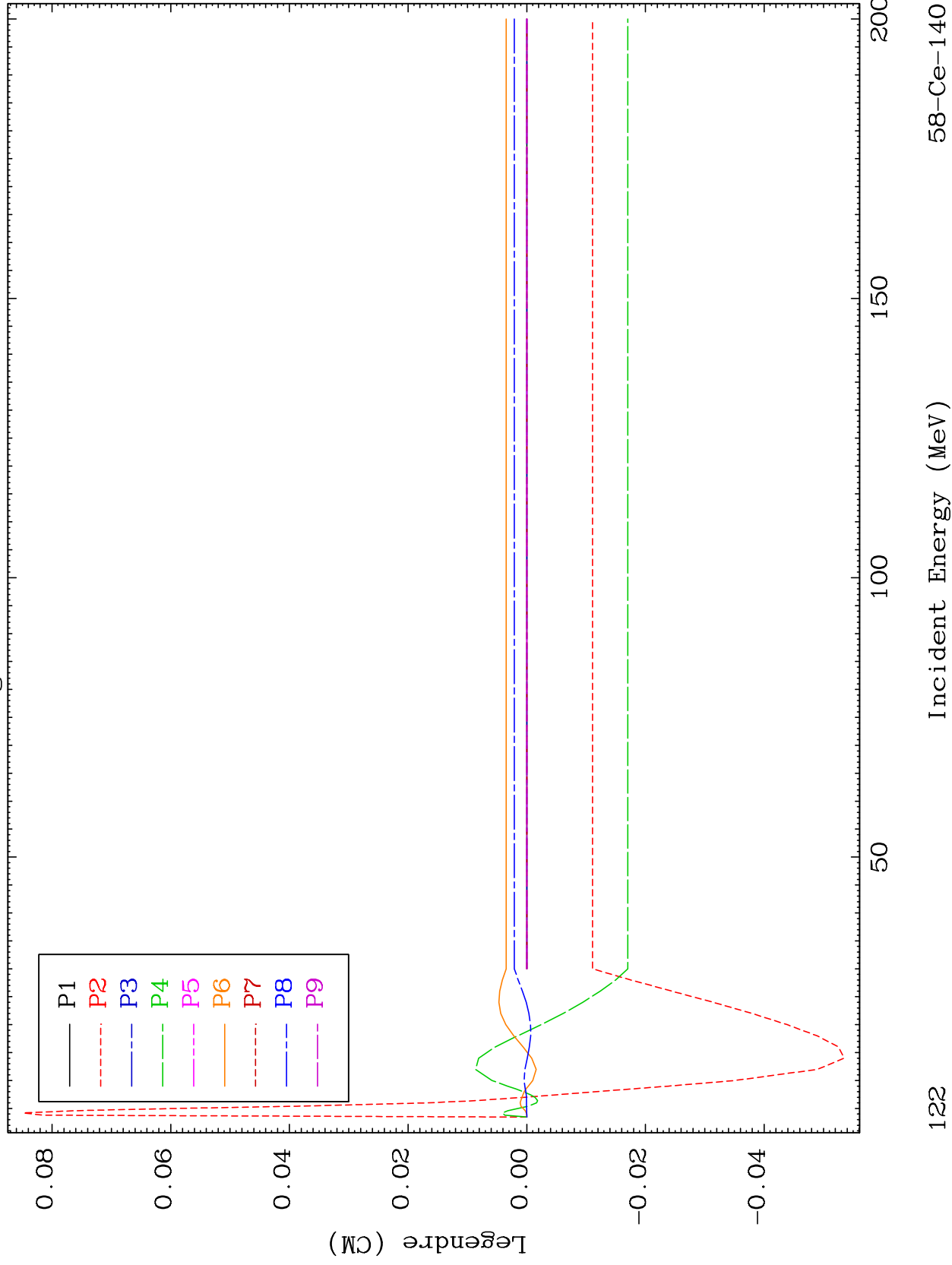
120



MAT 5837

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

58-Ce-140



58-Ce-140

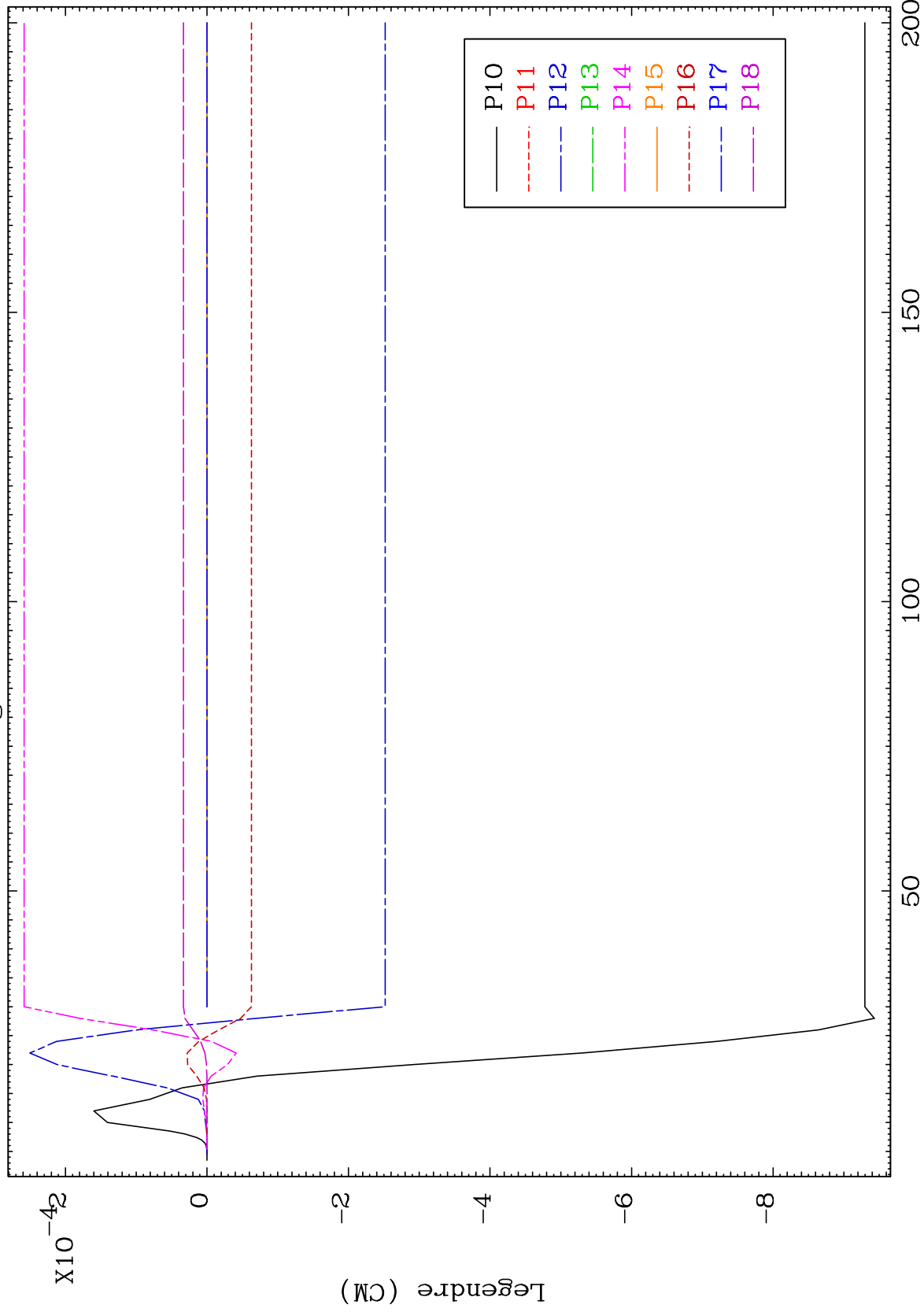
Incident Energy (MeV)

122

MAT 5837

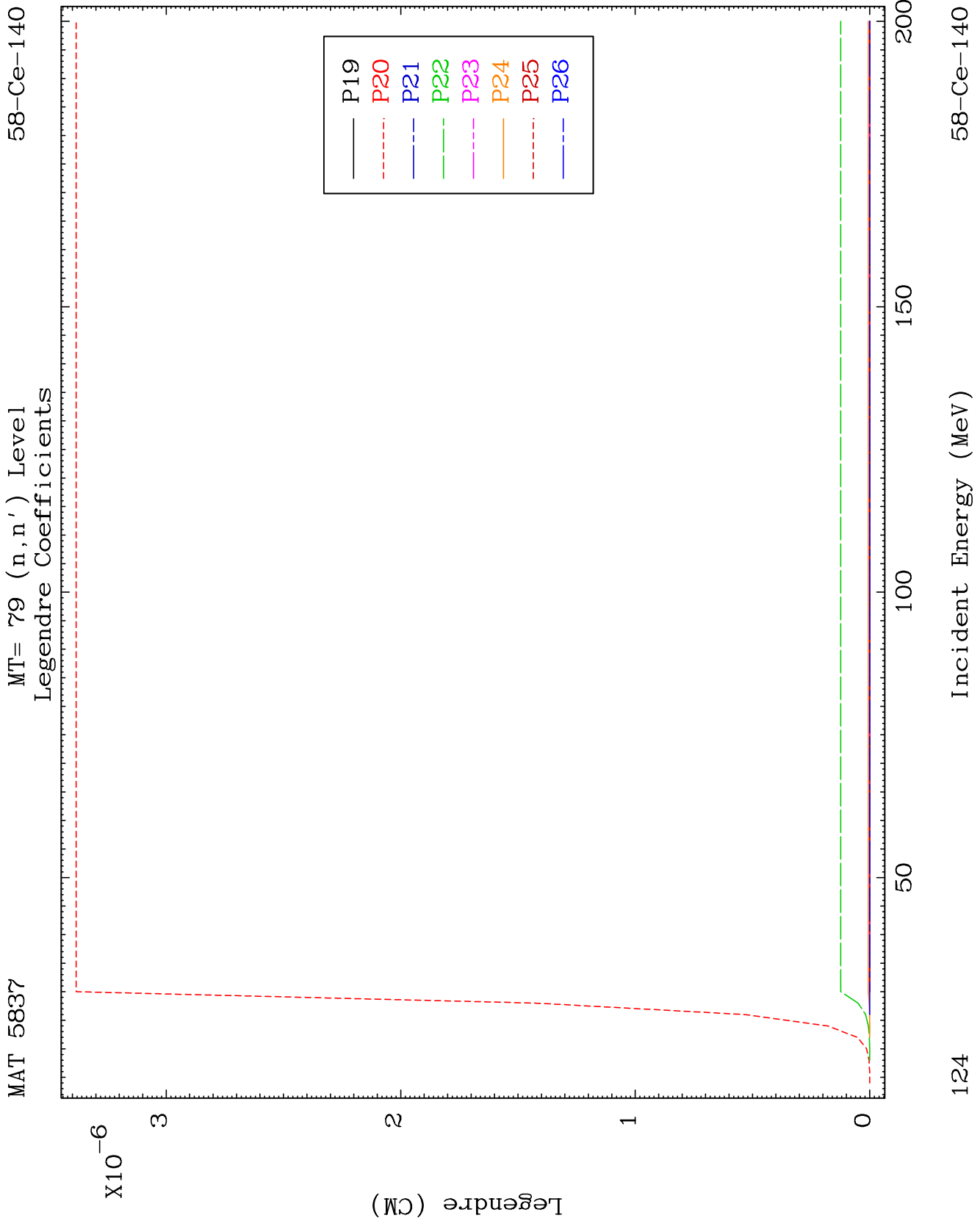
MT= 79 (n,n') Level  
Legendre Coefficients

58-Ce-140



123

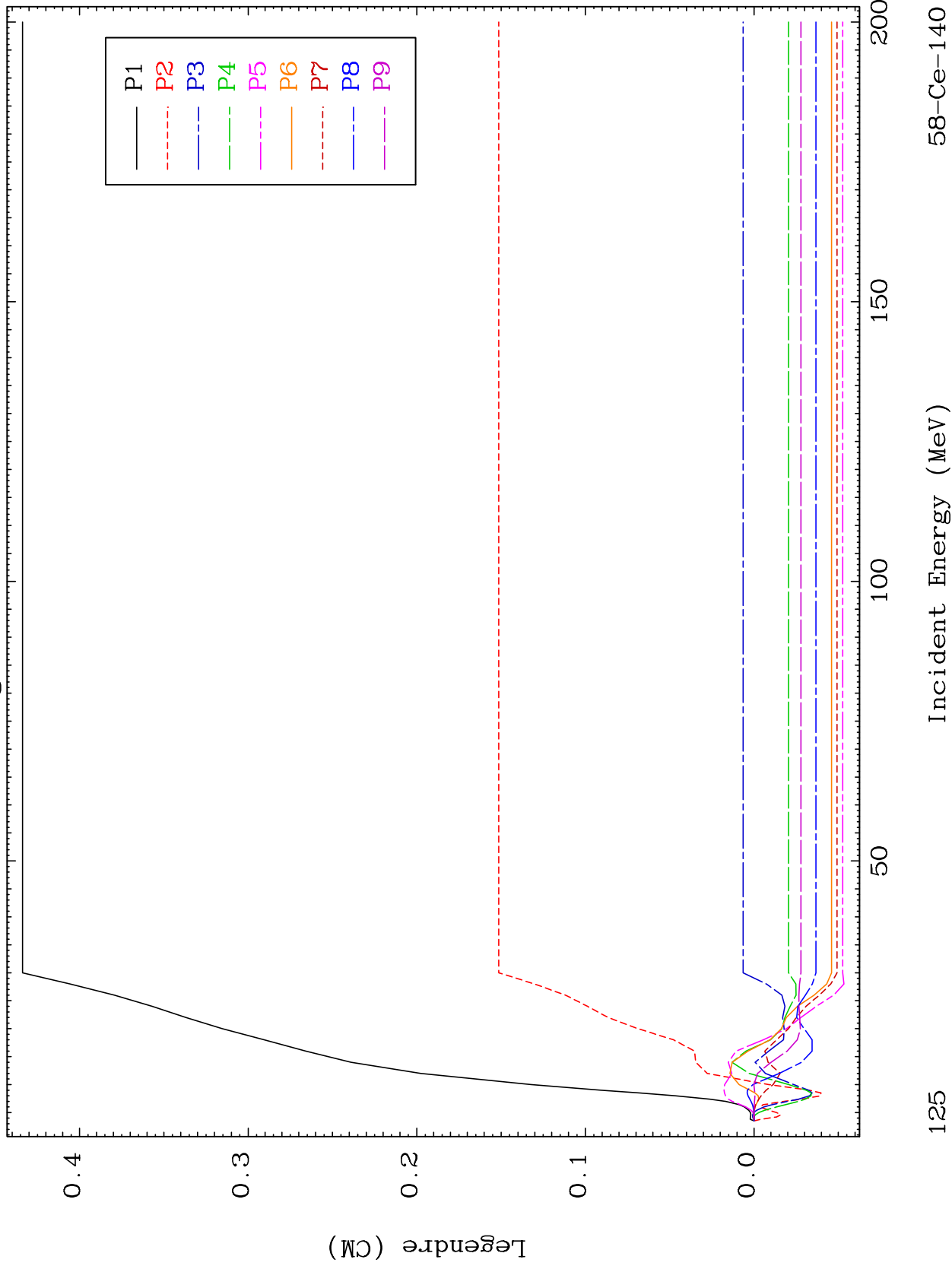
58-Ce-140



MAT 5837

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

58-Ce-140



125

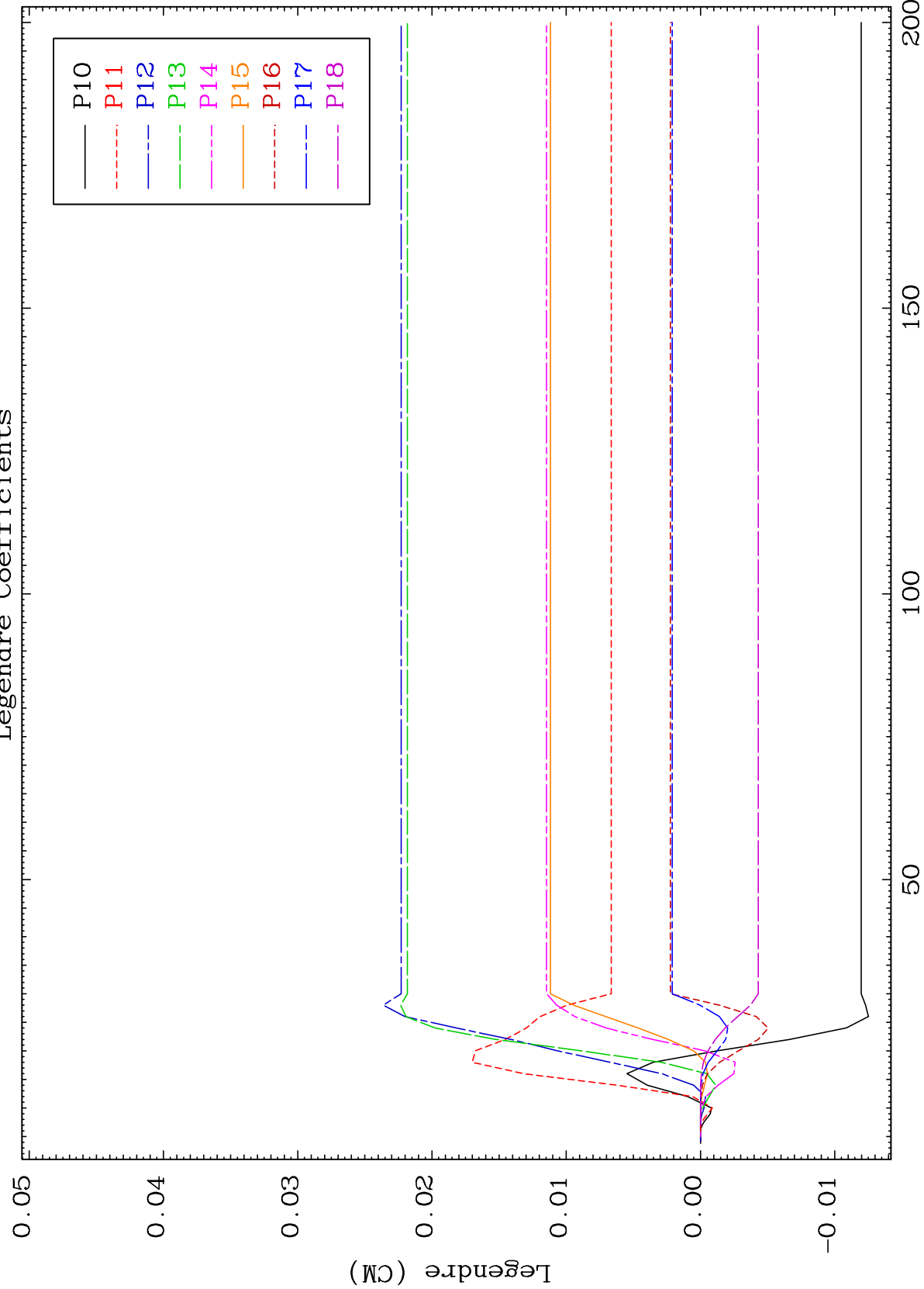
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



126

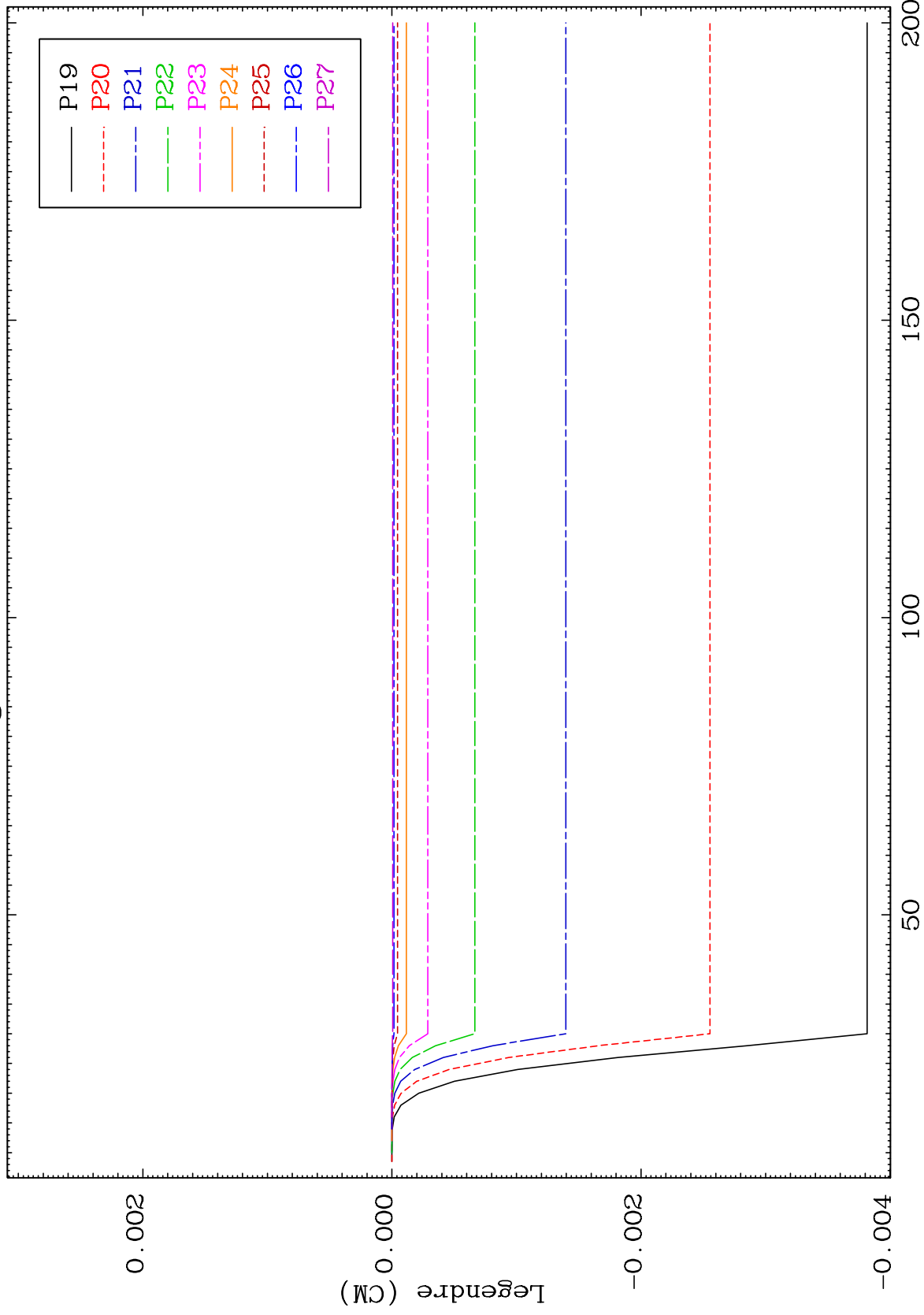
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140

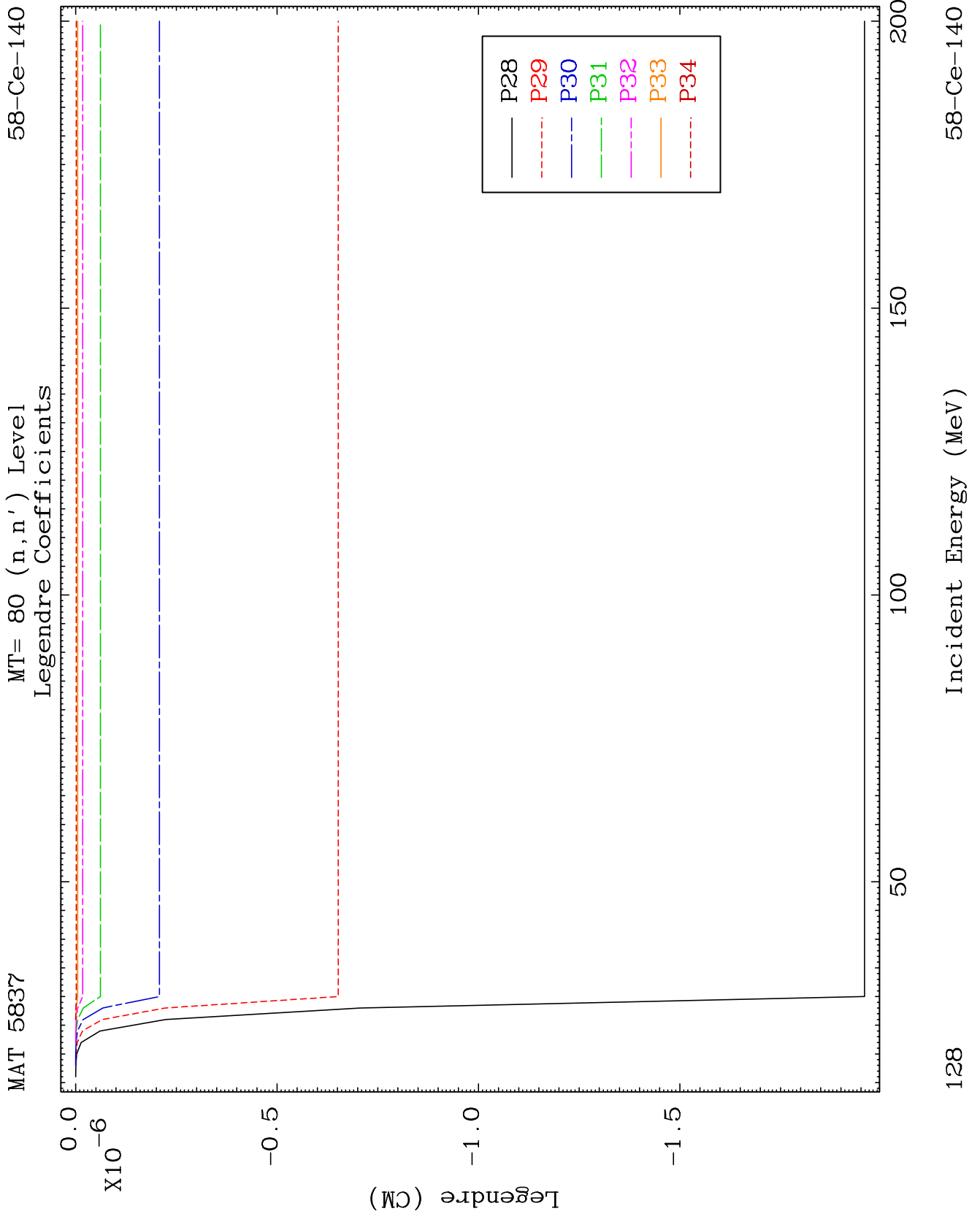


127

Incident Energy (MeV)

58-Ce-140



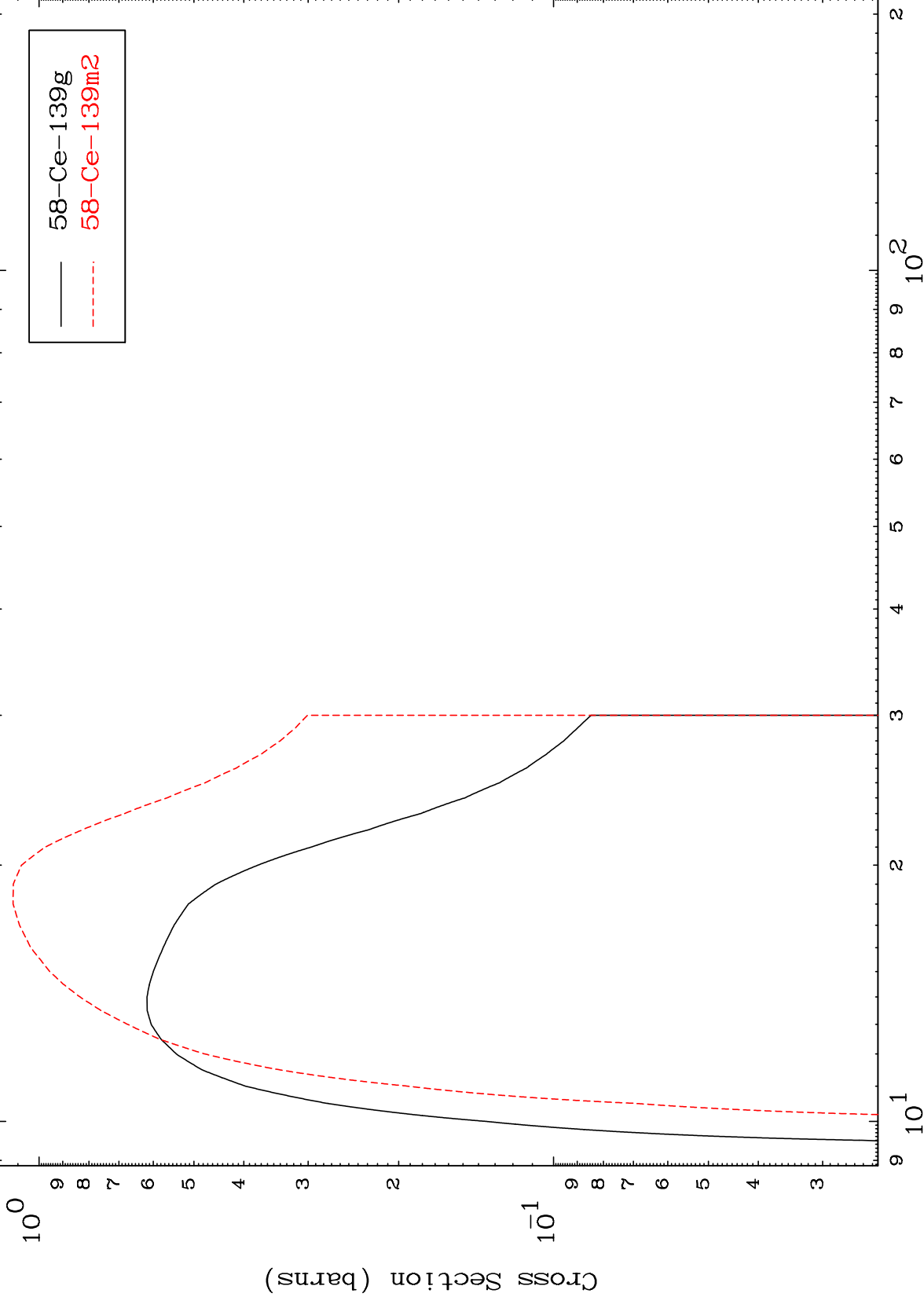


MAT 5837

(n,2n)

58-Ce-140

Radionuclide Production Cross Section



58-Ce-139g  
58-Ce-139m2

129

Incident Energy (MeV)

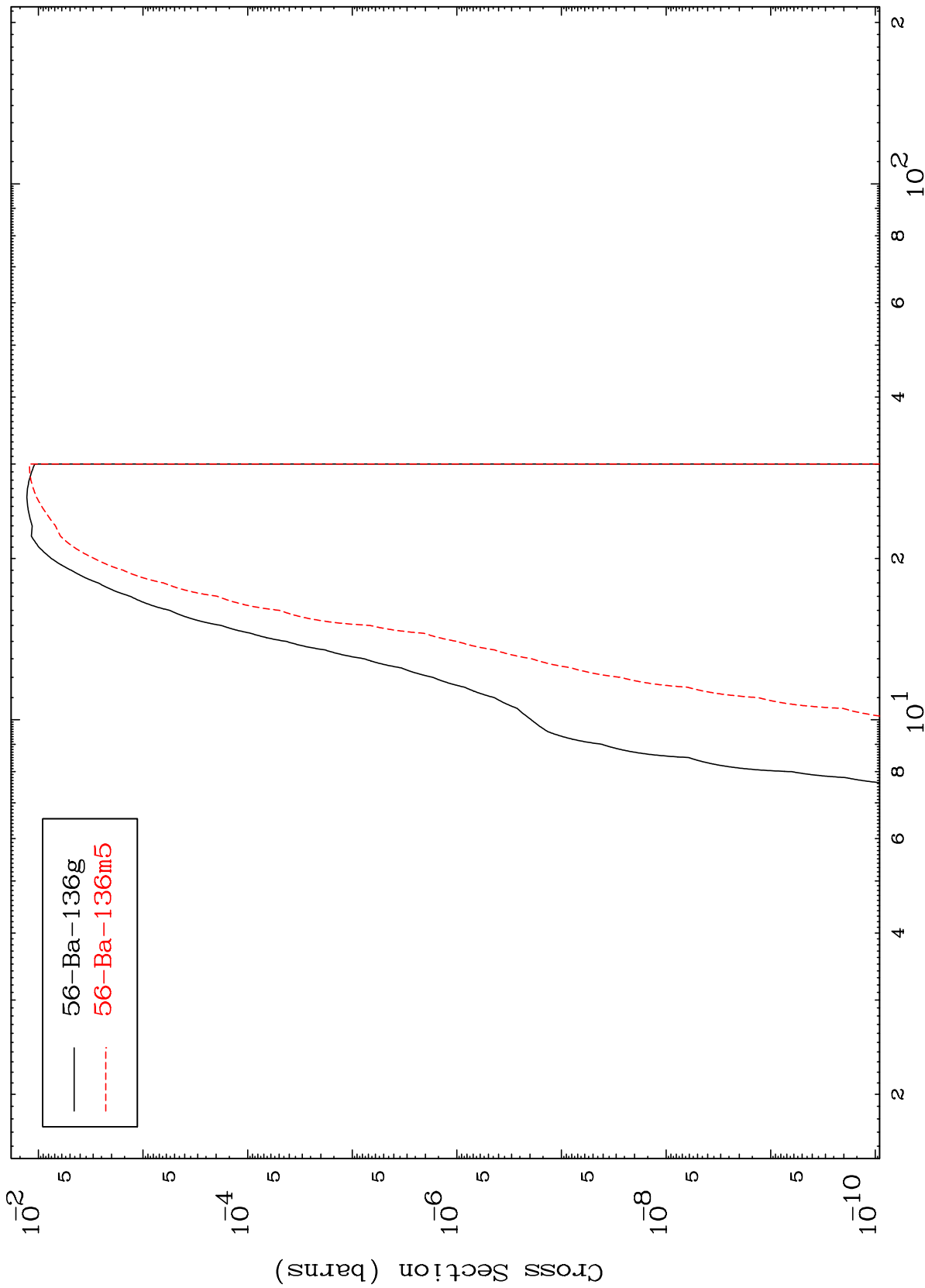
58-Ce-140

MAT 5837

(n,n')  $\alpha$

58-Ce-140

Radionuclide Production Cross Section



130

Incident Energy (MeV)

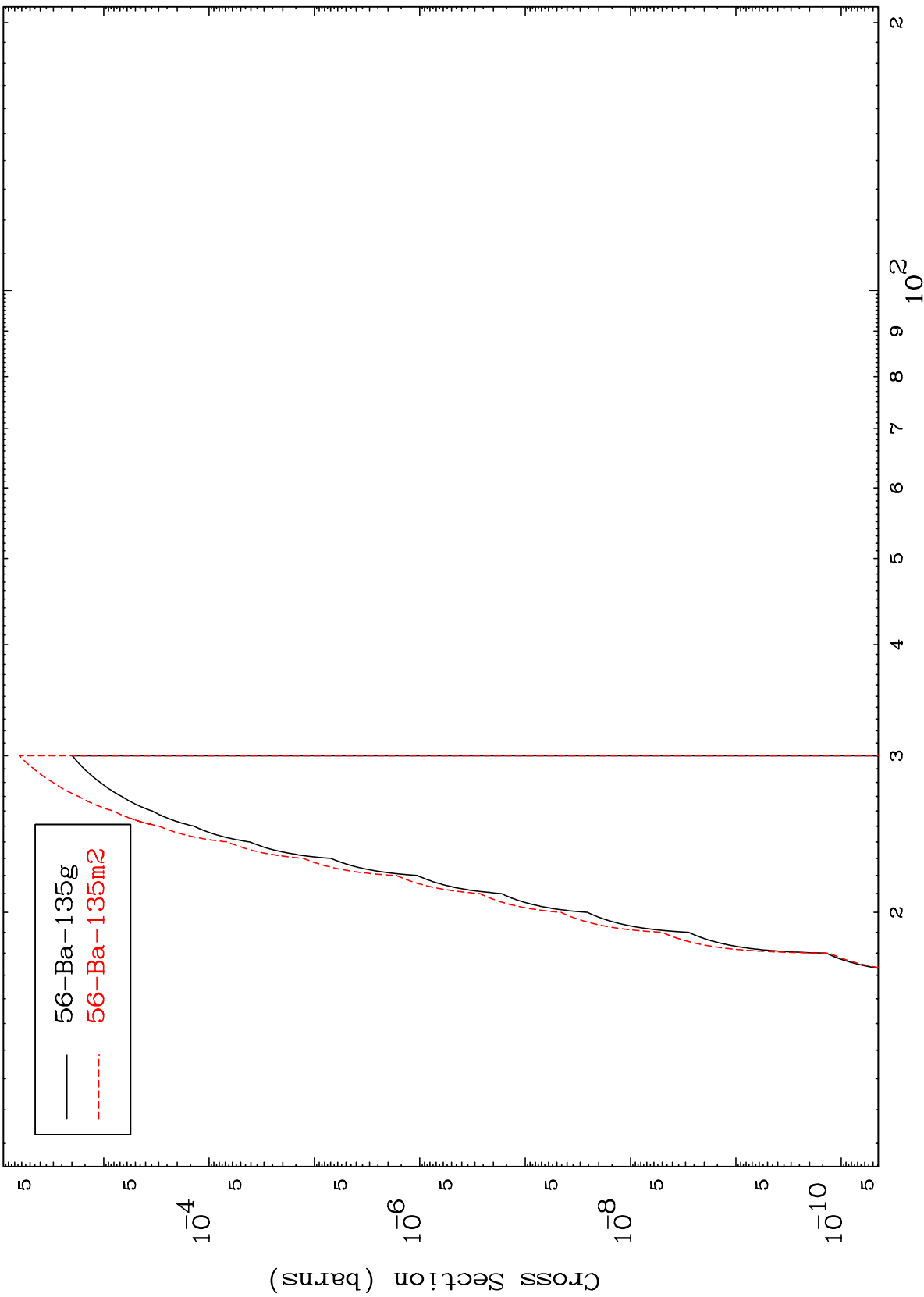
58-Ce-140

MAT 5837

(n,2n)  $\alpha$

58-Ce-140

Radionuclide Production Cross Section



131

Incident Energy (MeV)

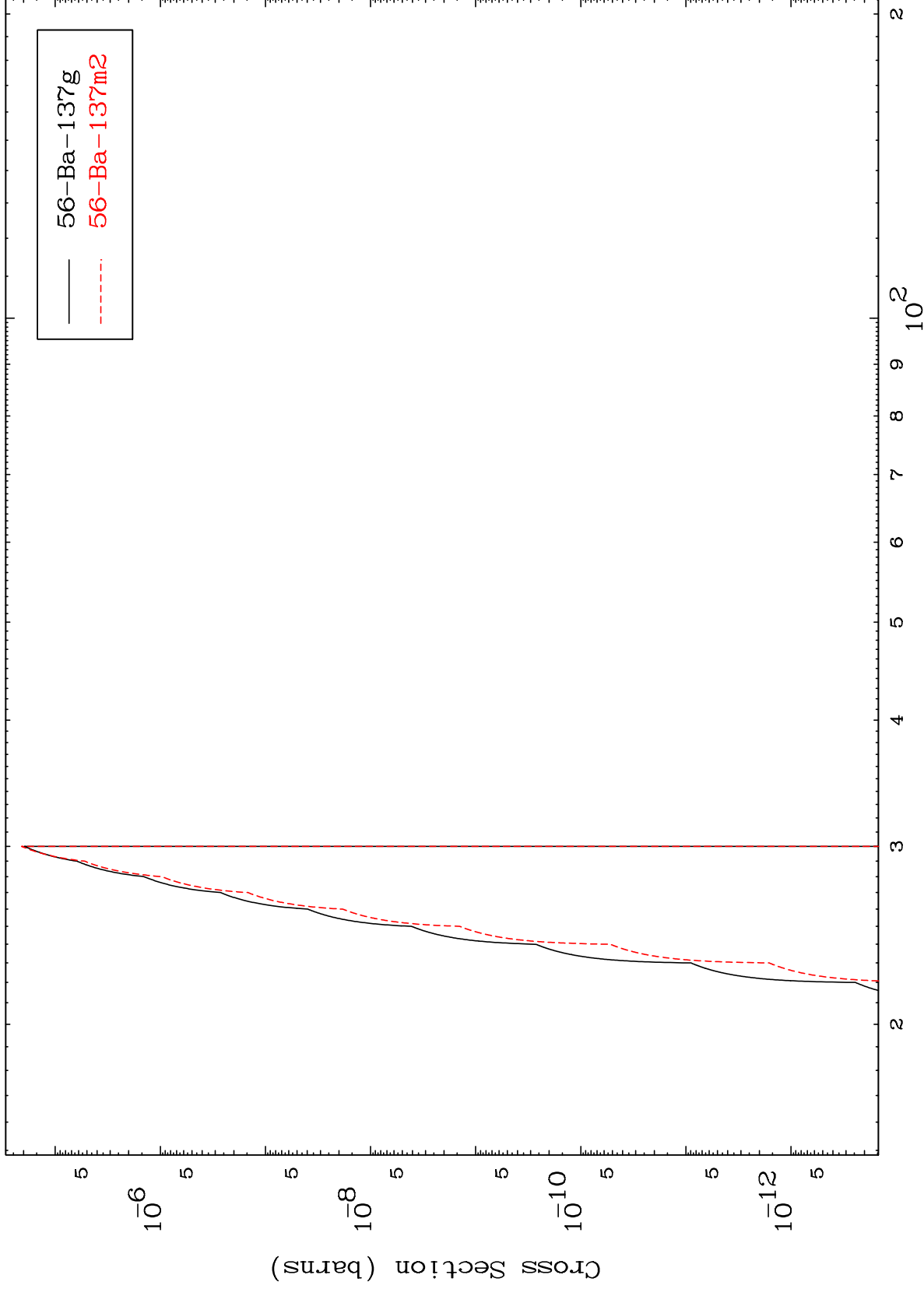
58-Ce-140

MAT 5837

(n,n') He-3

58-Ce-140

Radionuclide Production Cross Section



132

Incident Energy (MeV)

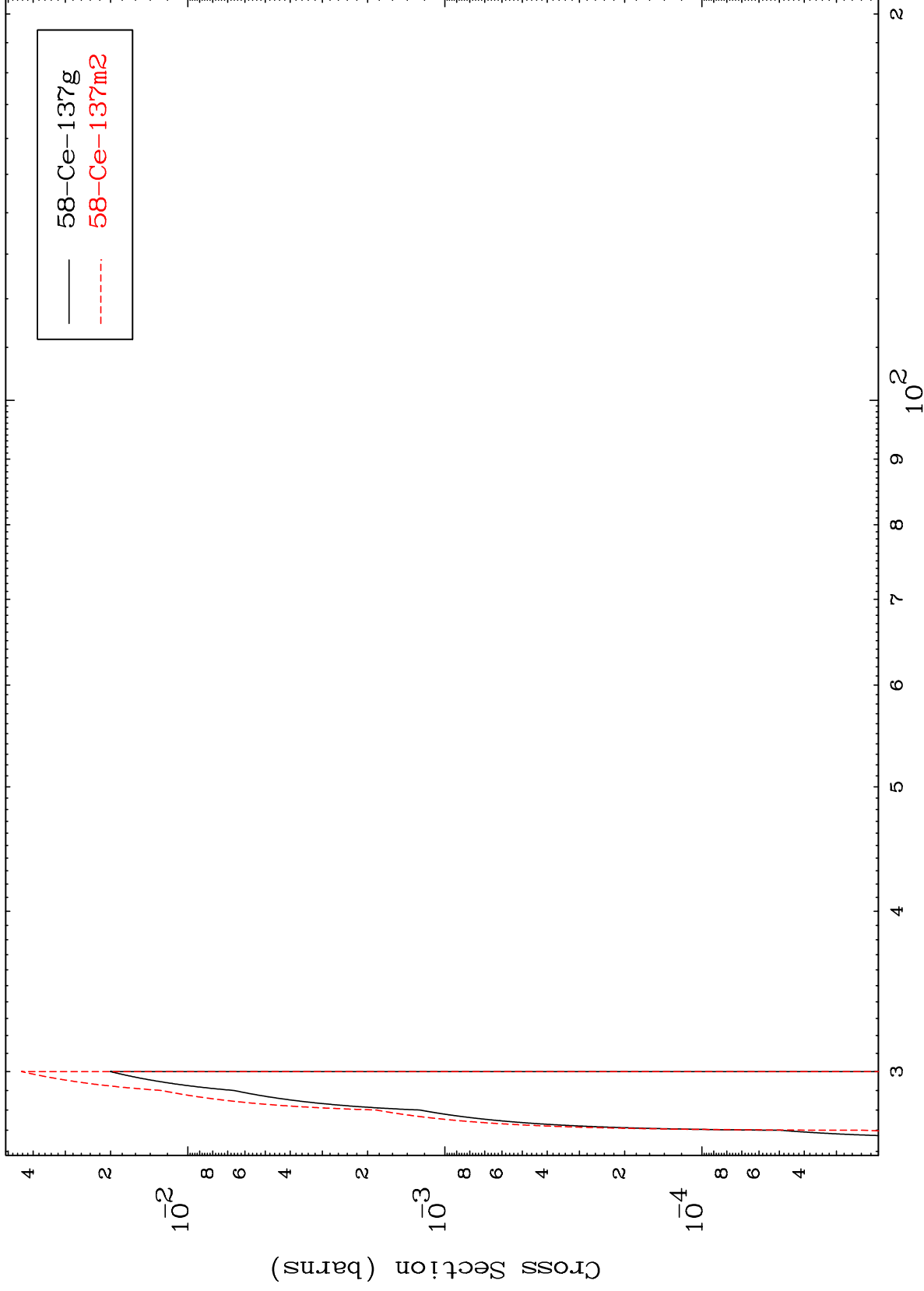
58-Ce-140

MAT 5837

(n,4n)

58-Ce-140

Radionuclide Production Cross Section



133

Incident Energy (MeV)

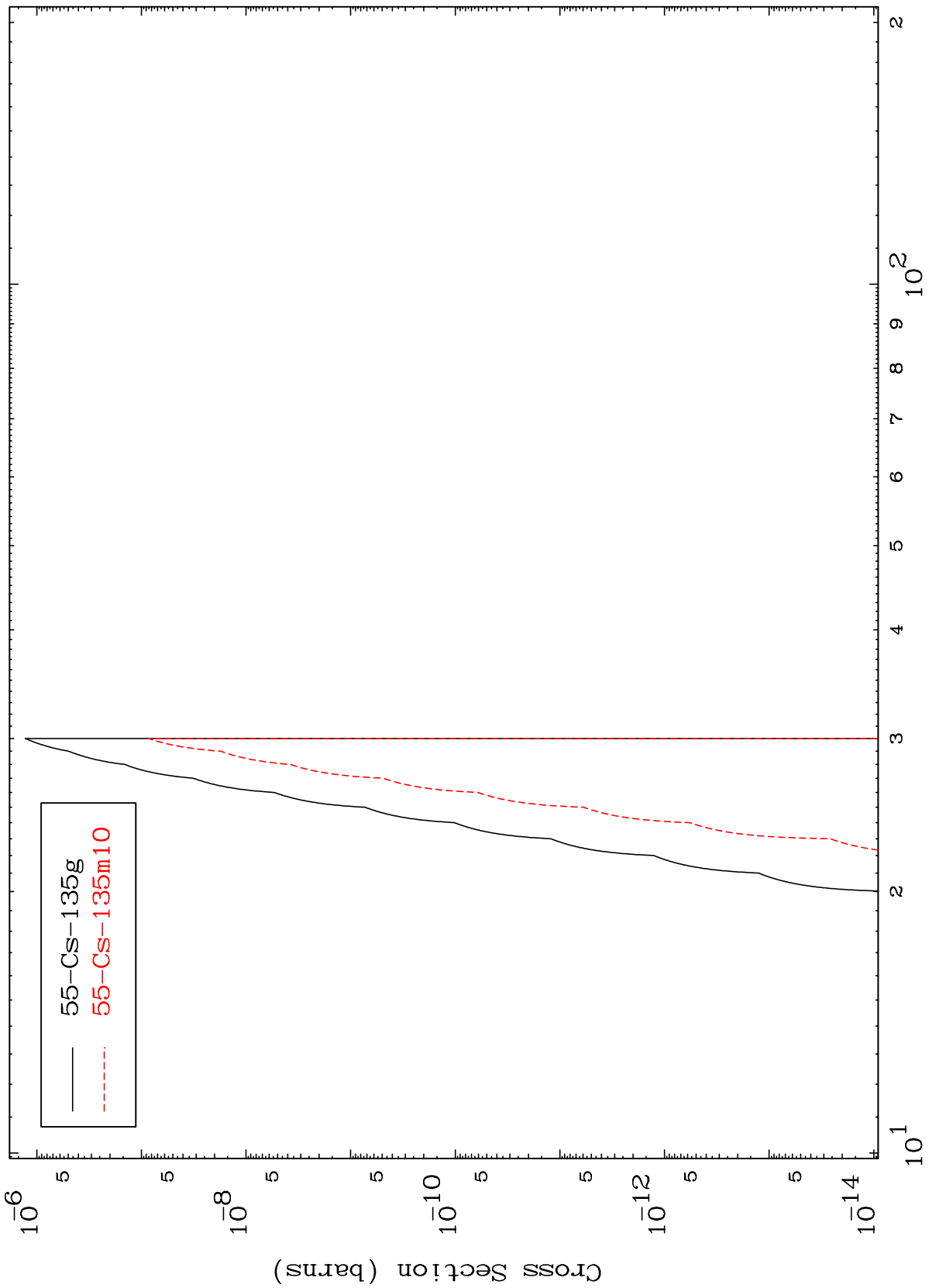
58-Ce-140

MAT 5837

(n,n') p  $\alpha$

58-Ce-140

Radionuclide Production Cross Section



134

Incident Energy (MeV)

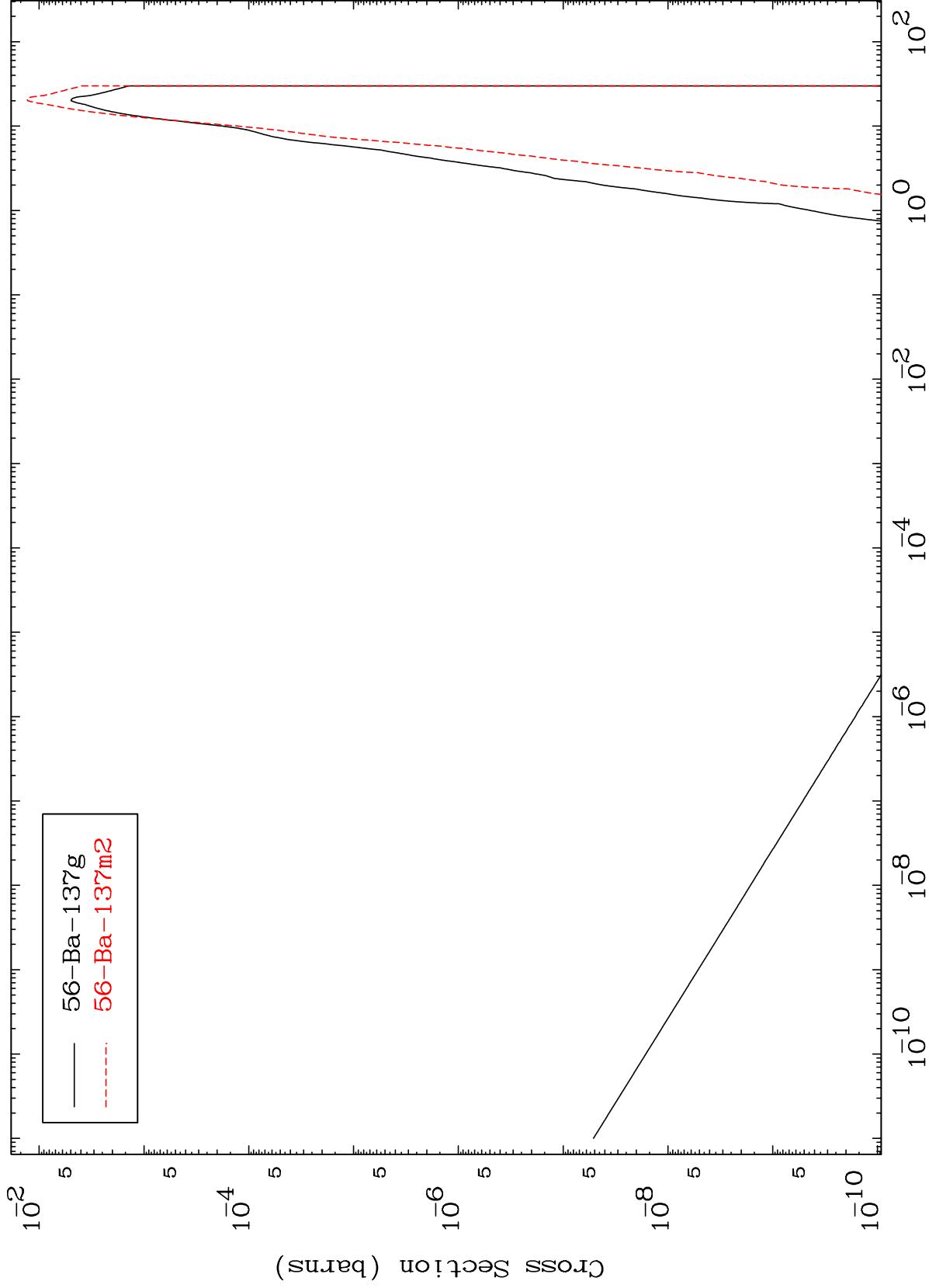
58-Ce-140

MAT 5837

(n,  $\alpha$ )

58-Ce-140

Radionuclide Production Cross Section



135

Incident Energy (MeV)

58-Ce-140

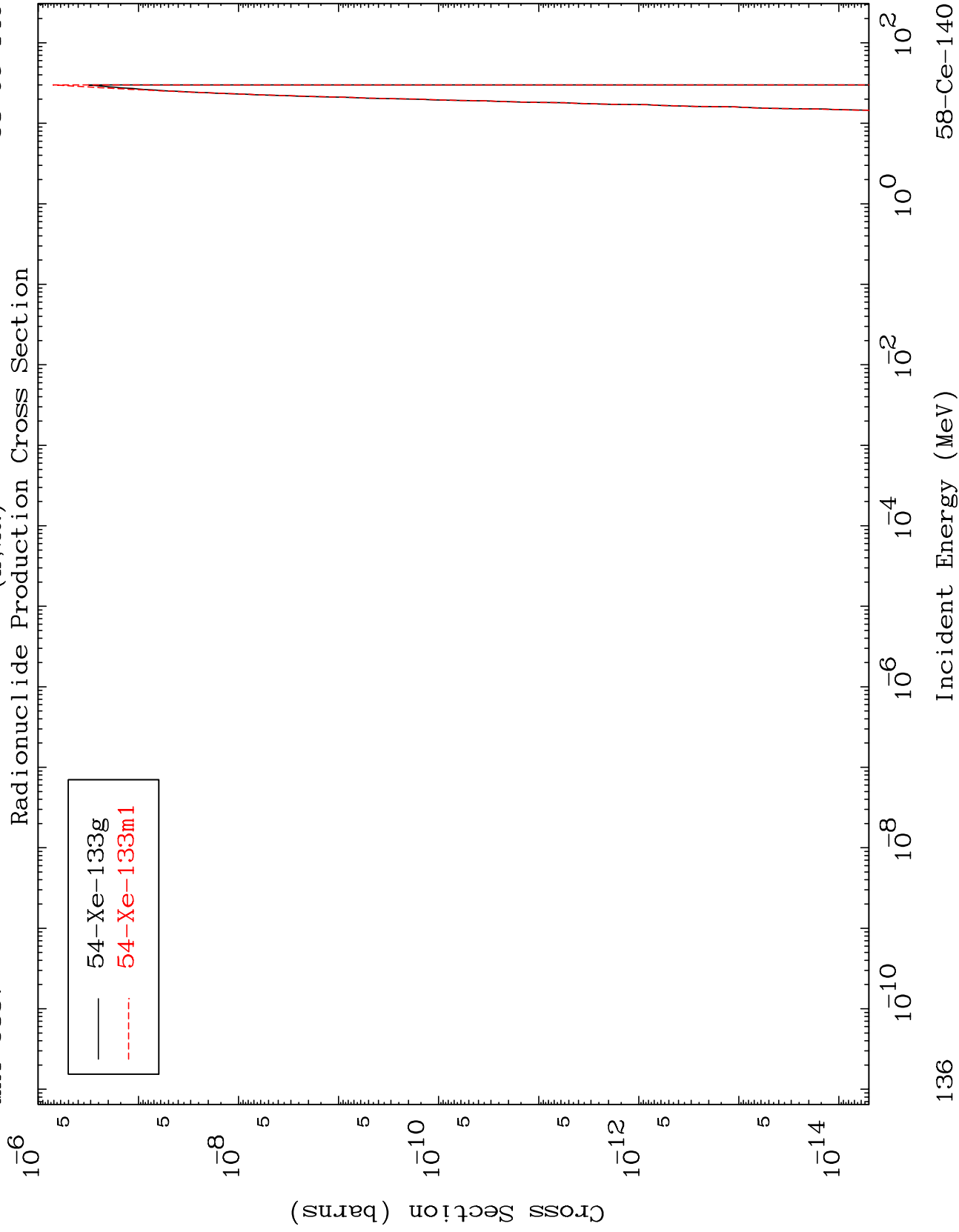


MAT 5837

(n,2α)

58-Ce-140

Radionuclide Production Cross Section



136

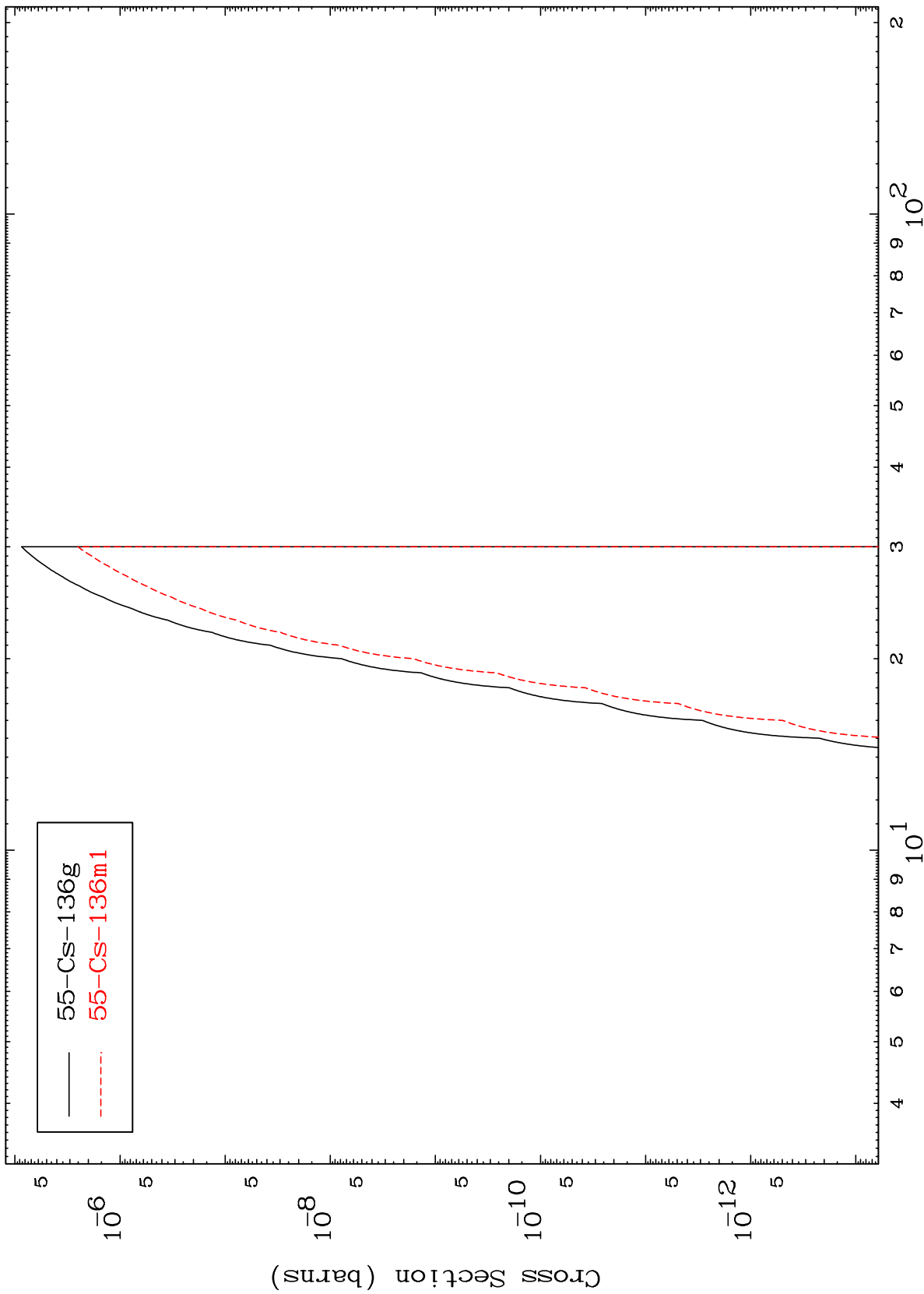
58-Ce-140

MAT 5837

(n,p)  $\alpha$

58-Ce-140

Radionuclide Production Cross Section



55-Cs-136g  
55-Cs-136m1

137

Incident Energy (MeV)

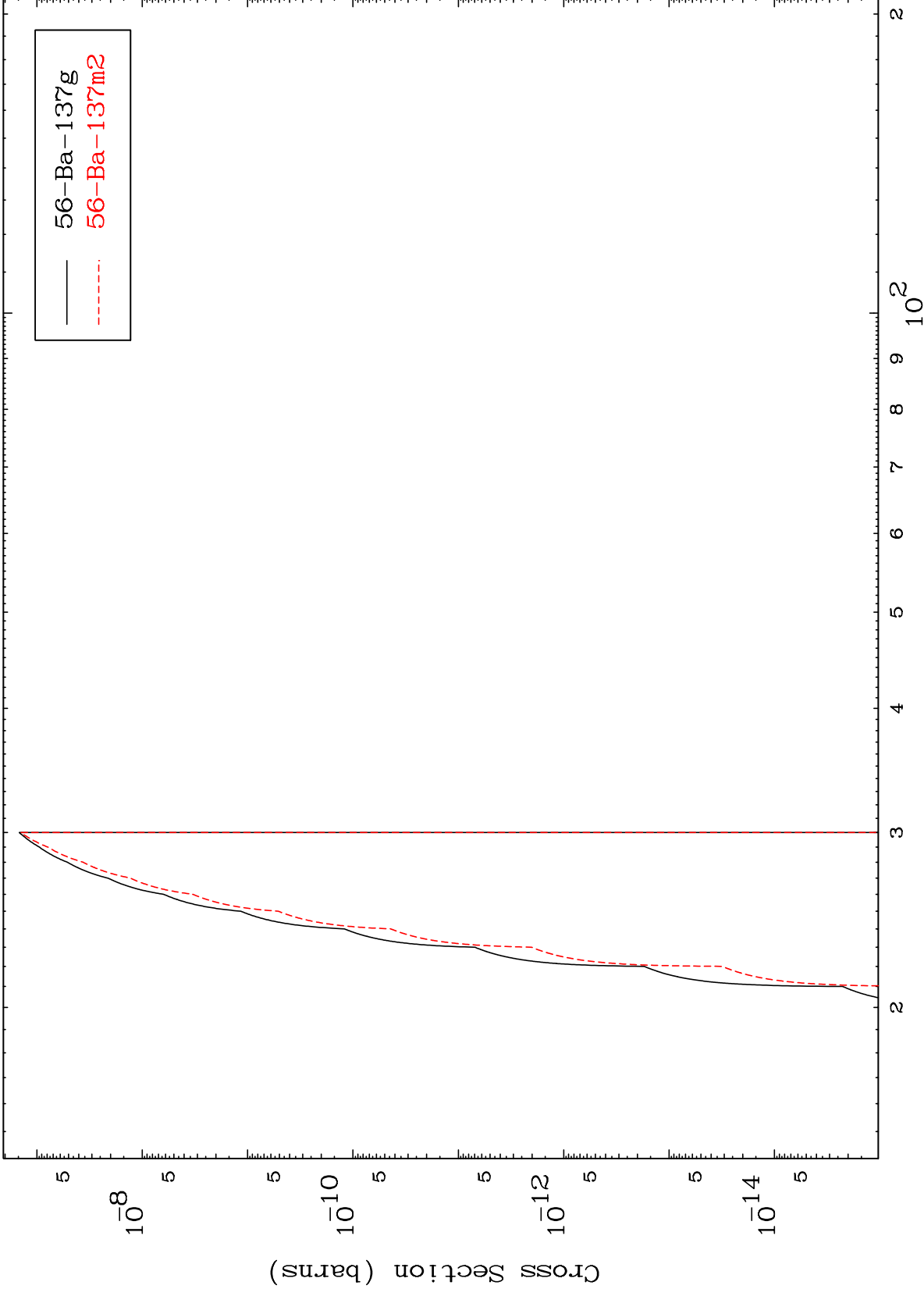
58-Ce-140

MAT 5837

(n,p) t

58-Ce-140

Radionuclide Production Cross Section



56-Ba-137g  
56-Ba-137m2

138

Incident Energy (MeV)

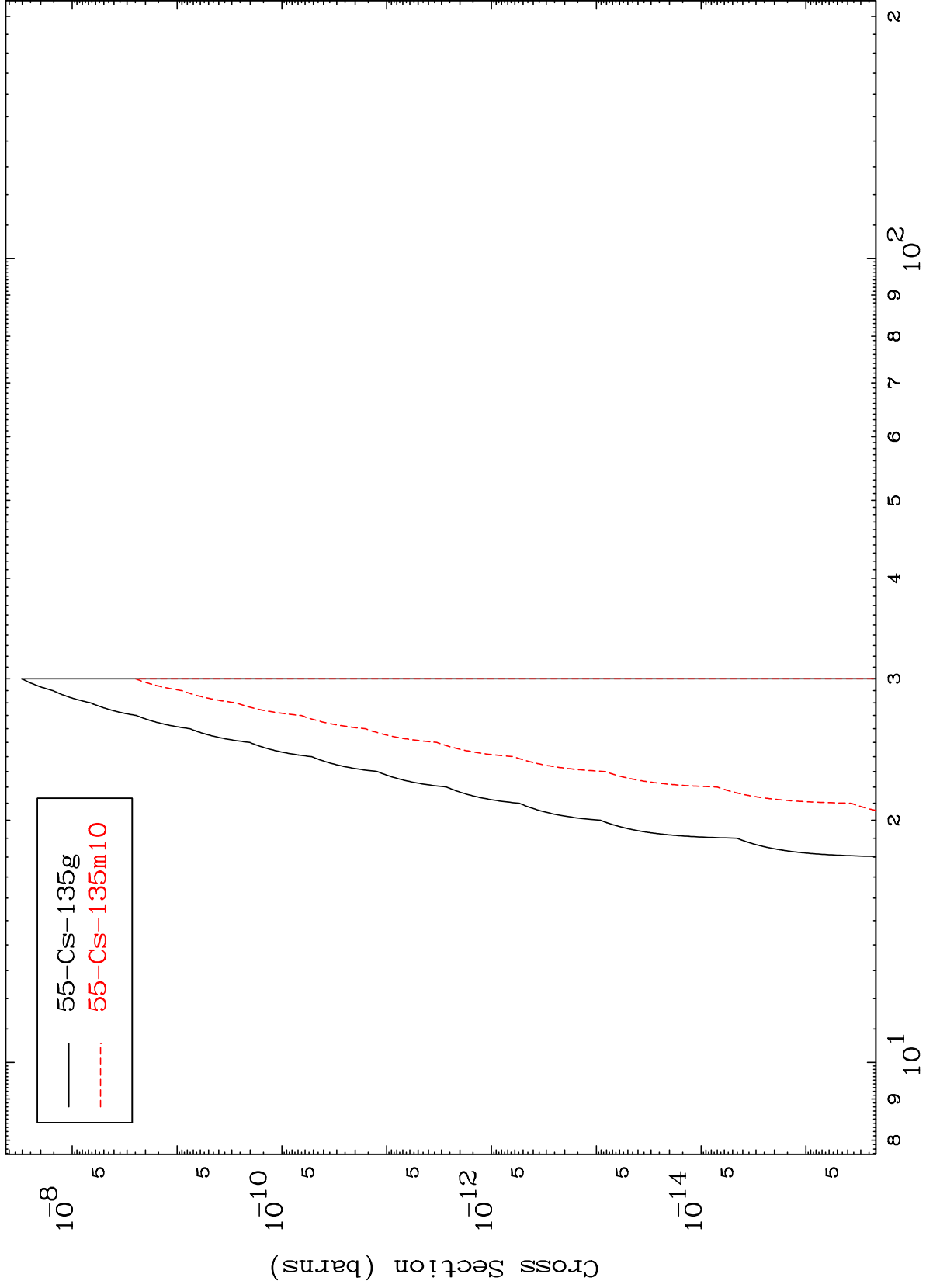
58-Ce-140

MAT 5837

(n,d)  $\alpha$

58-Ce-140

Radionuclide Production Cross Section



55-Cs-135g  
55-Cs-135m10

139

Incident Energy (MeV)

58-Ce-140