

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

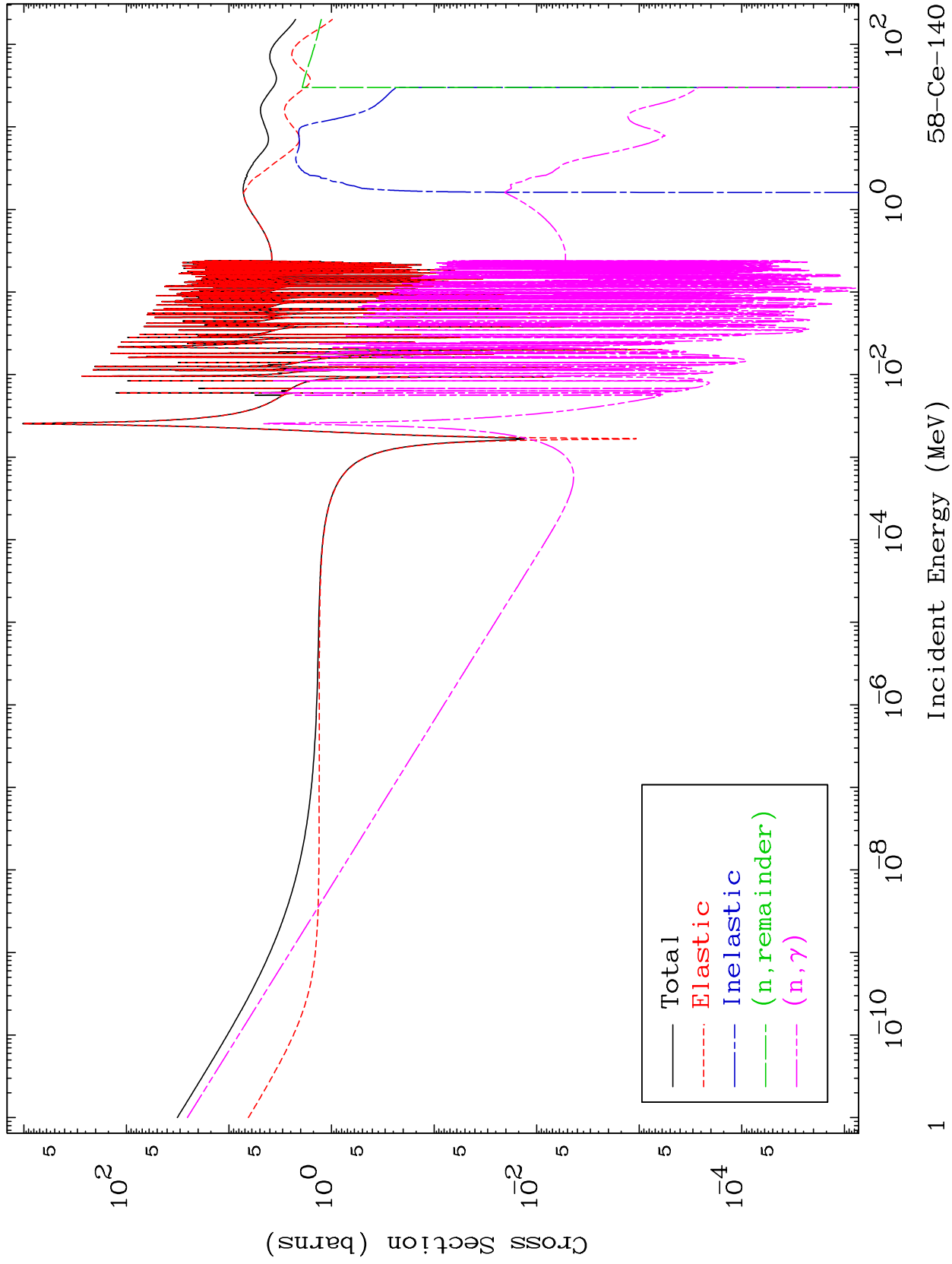
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5837

Major
293 Kelvin Cross Sections

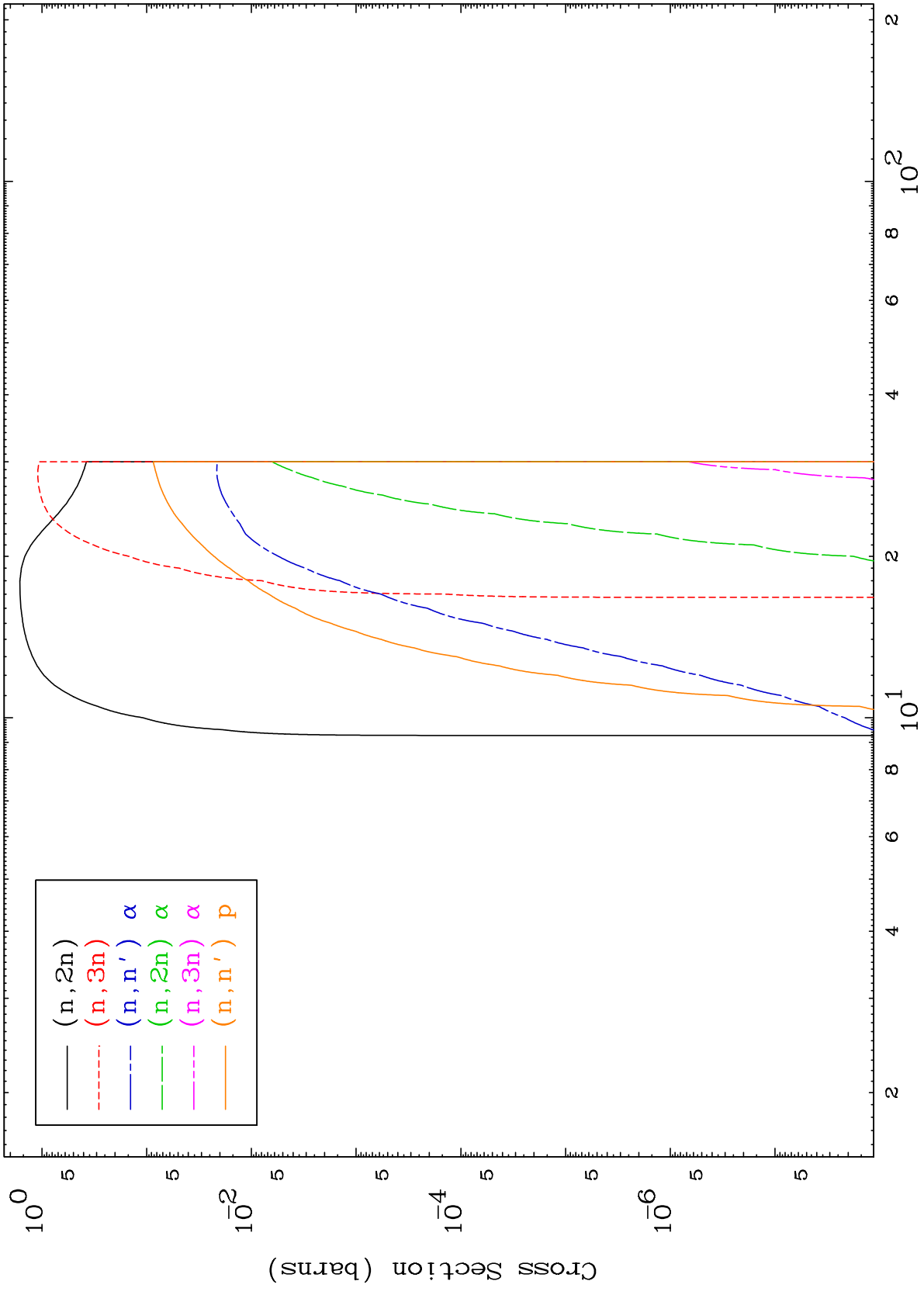
58-Ce-140



MAT 5837

Neutron Production
293 Kelvin Cross Sections

58-Ce-140



2

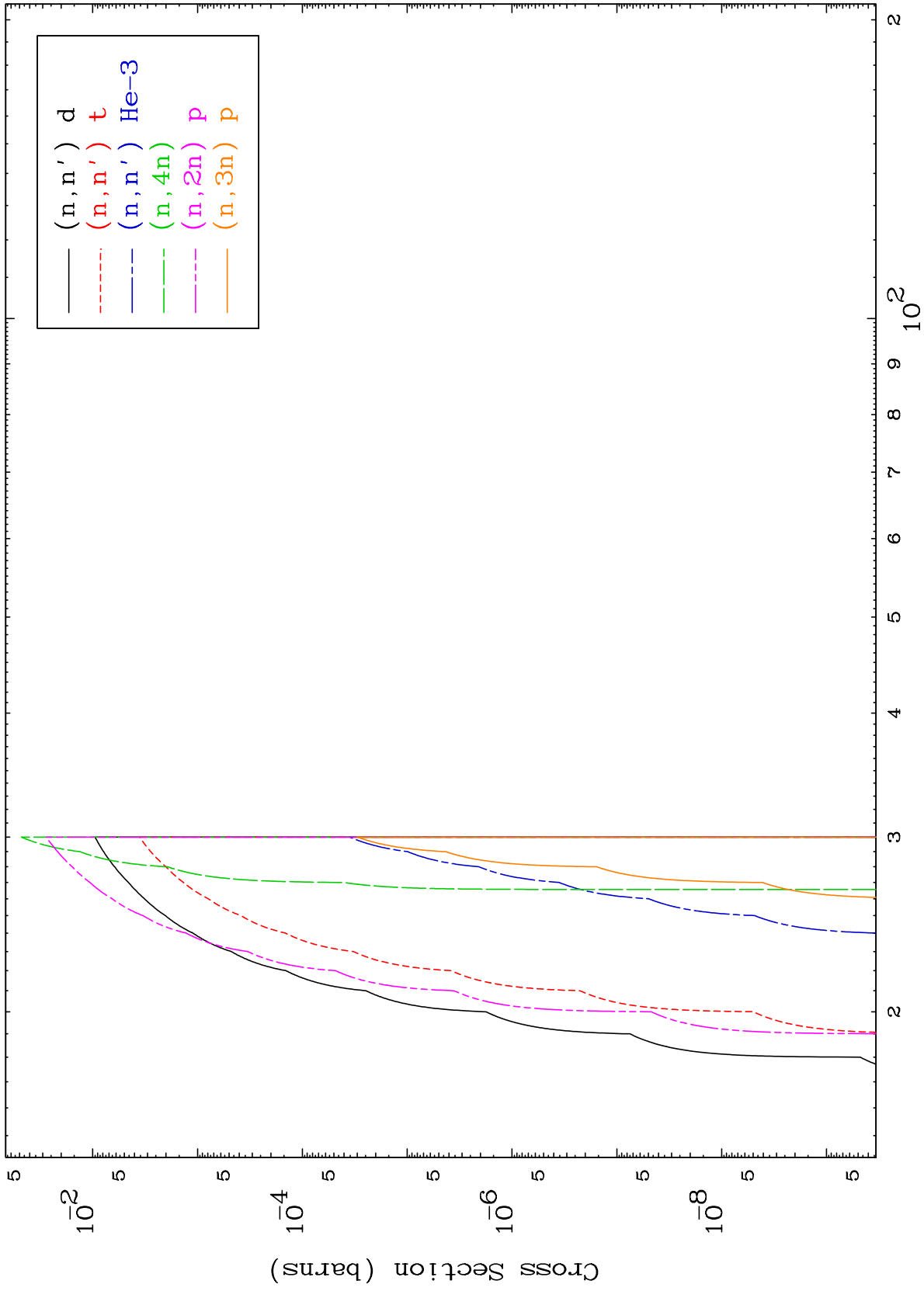
Incident Energy (MeV)

58-Ce-140

MAT 5837

Neutron Production
293 Kelvin Cross Sections

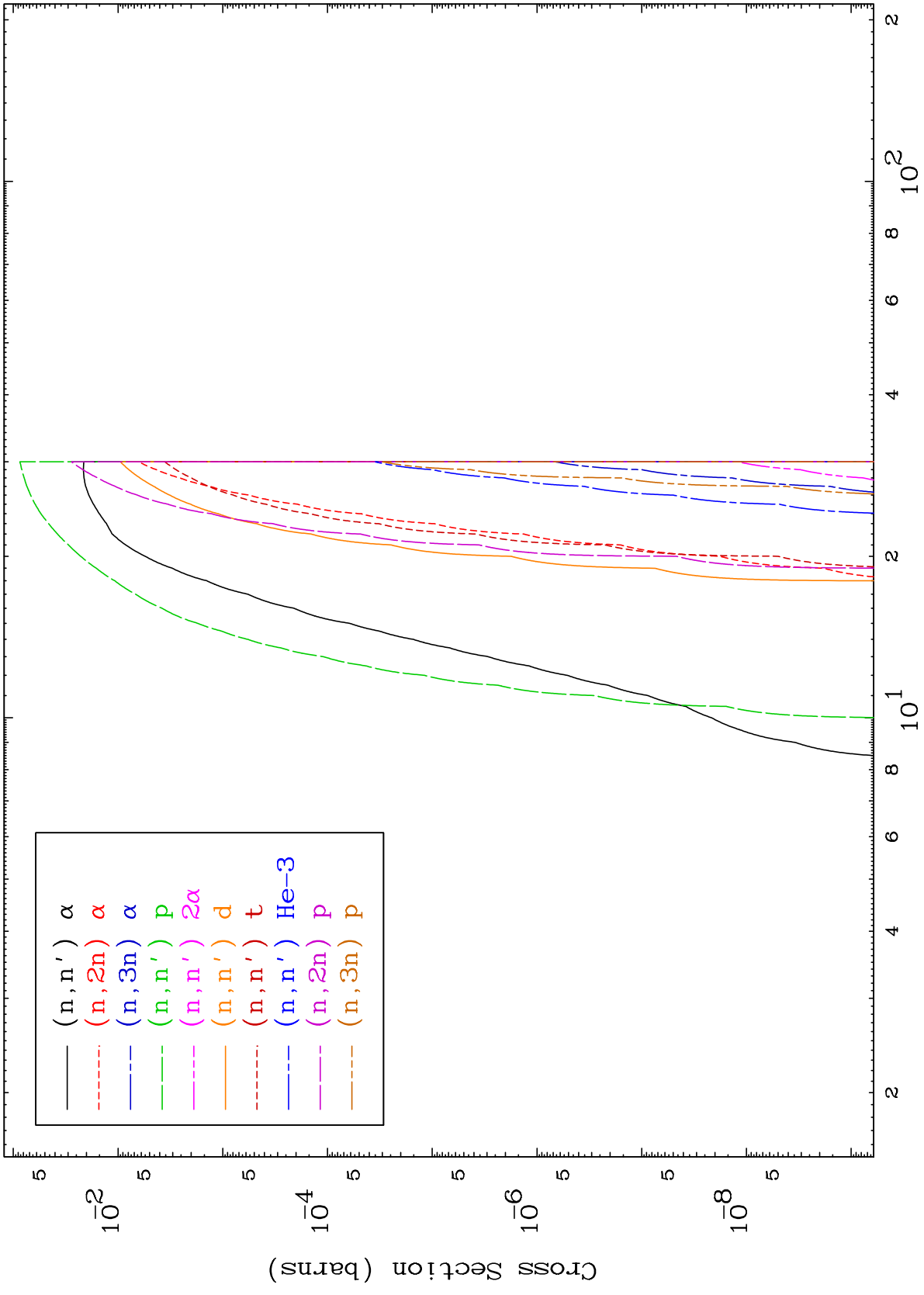
58-Ce-140



3

Incident Energy (MeV)

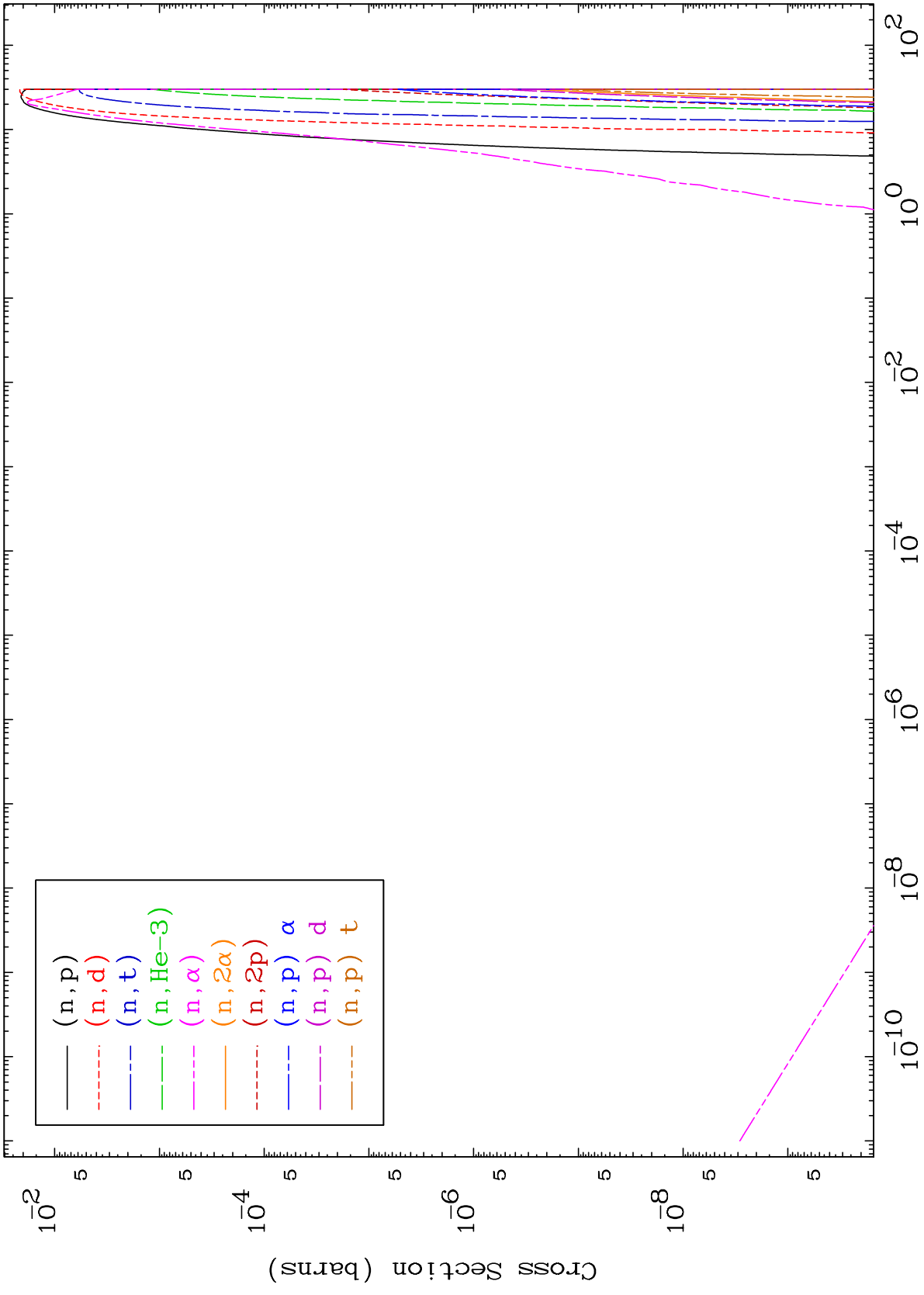
58-Ce-140



MAT 5837

293 Charged Particle
Kelvin Cross Sections

58-Ce-140

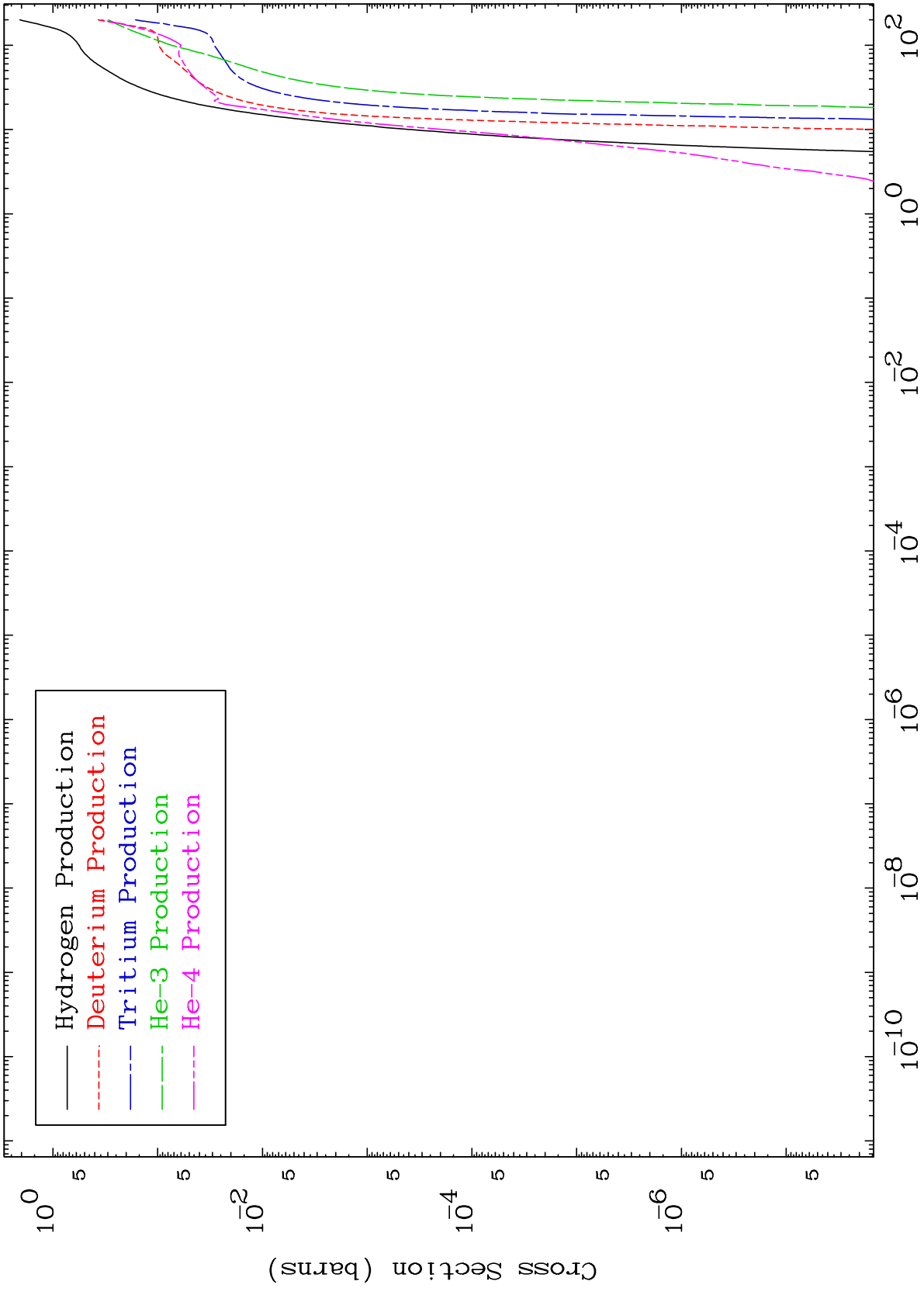


58-Ce-140

MAT 5837

Particle Production
293 Kelvin Cross Sections

58-Ce-140



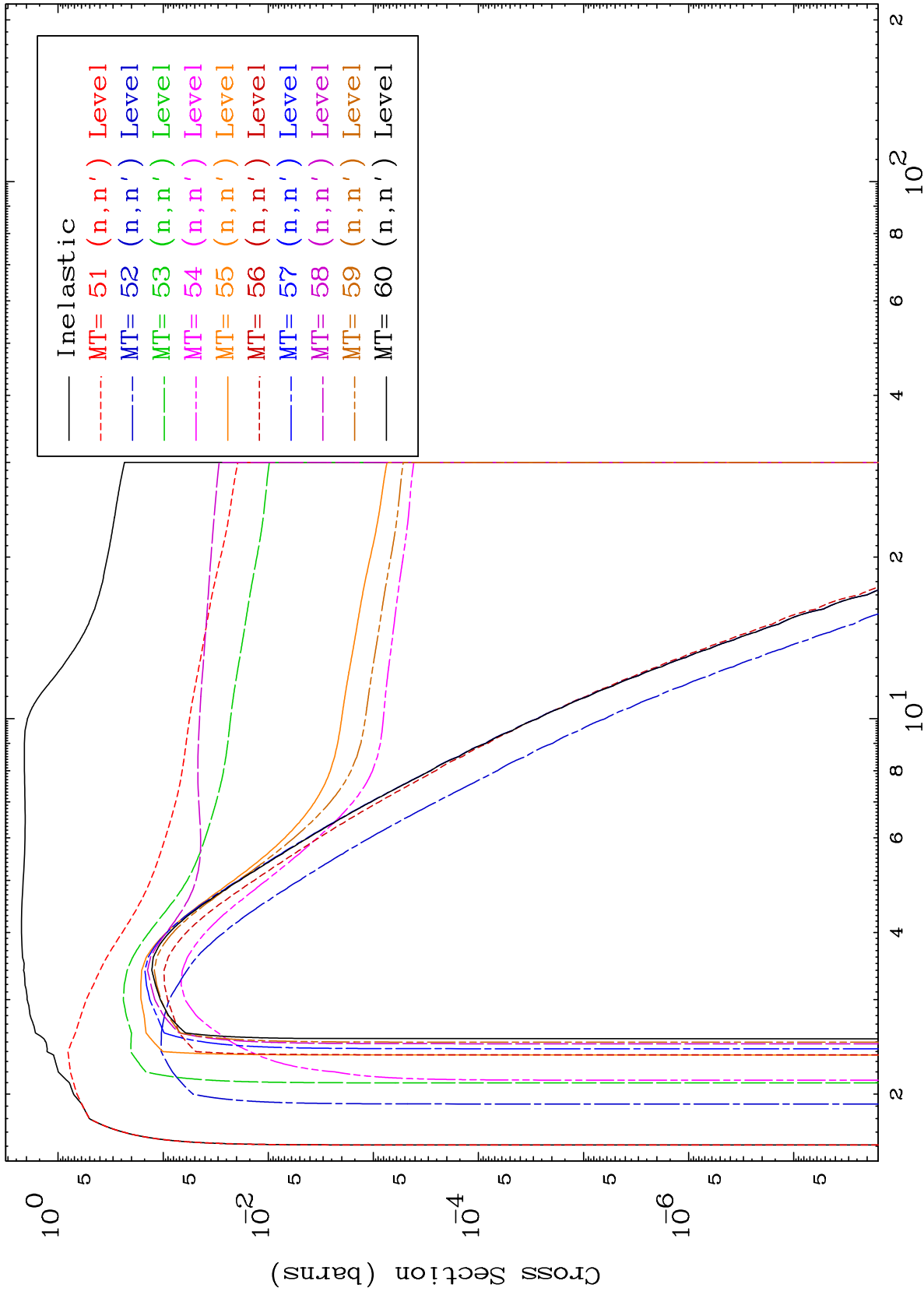
58-Ce-140

MAT 5837

(n,n') Level

58-Ce-140

293 Kelvin Cross Sections



7

Incident Energy (MeV)

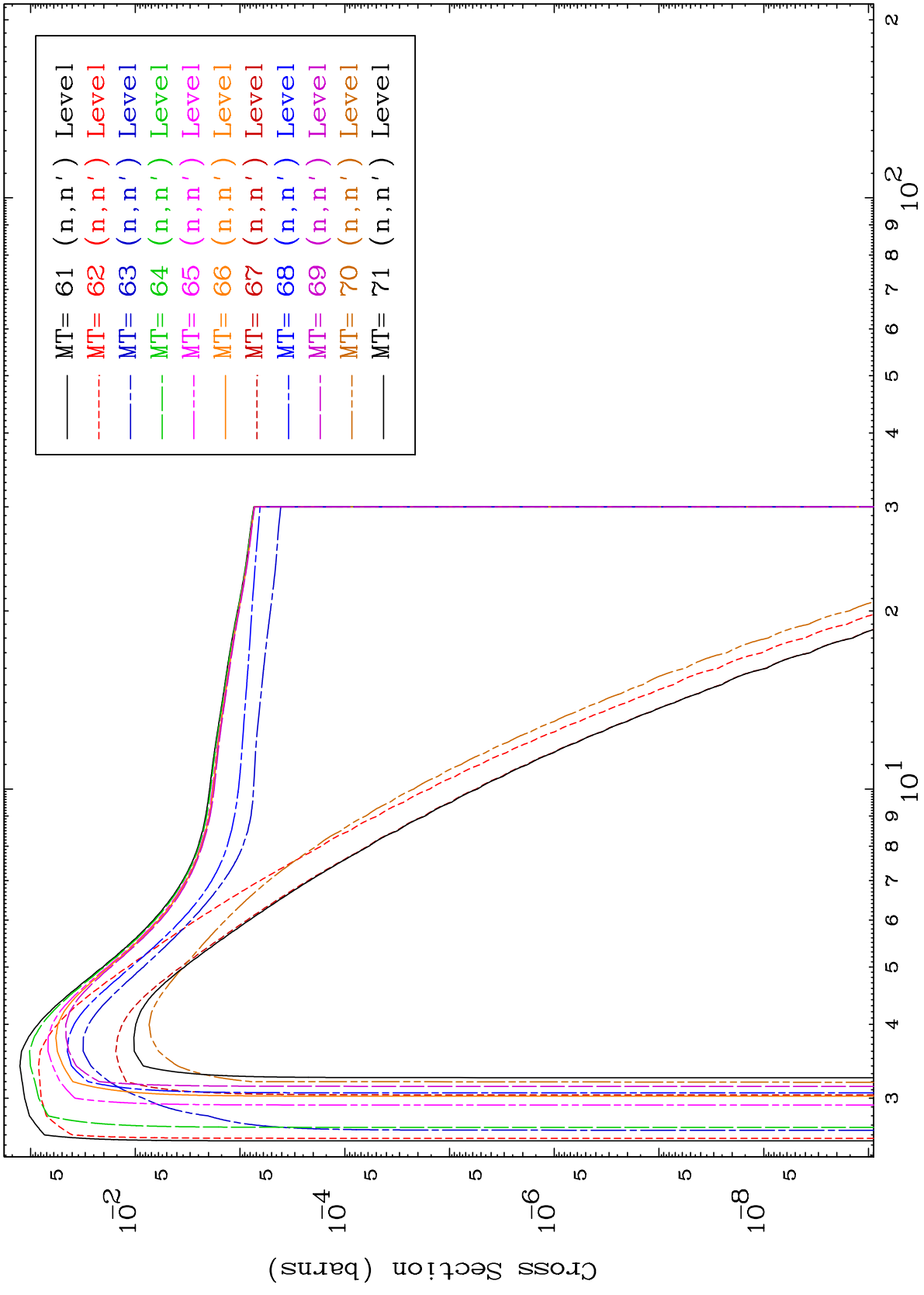
58-Ce-140

MAT 5837

(n,n') Level

58-Ce-140

293 Kelvin Cross Sections



8

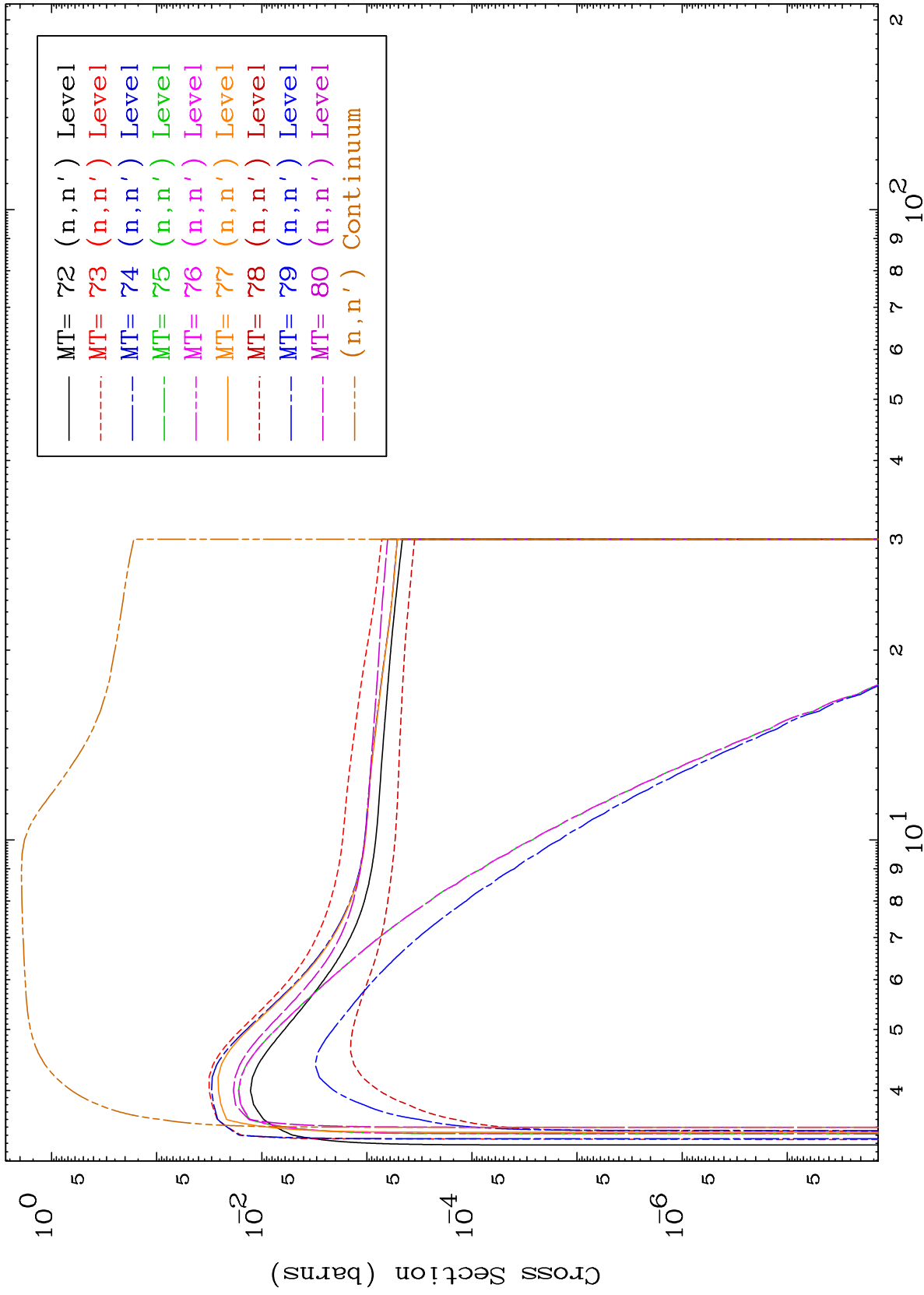
Incident Energy (MeV)

58-Ce-140

MAT 5837

(n,n') Level
293 Kelvin Cross Sections

58-Ce-140



9

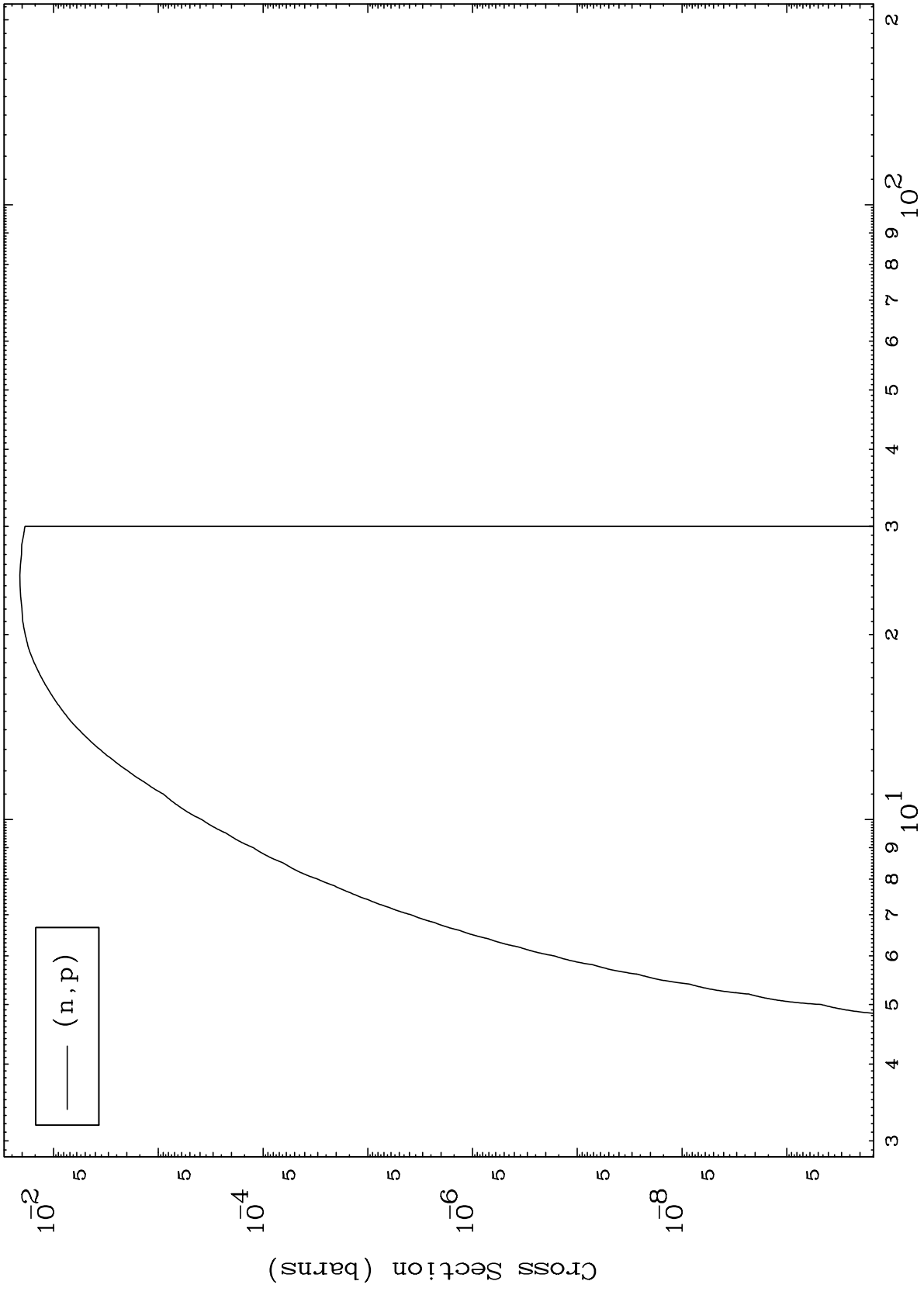
Incident Energy (MeV)

58-Ce-140

MAT 5837

(n,p) Levels
293 Kelvin Cross Sections

58-Ce-140



(n,p)

10

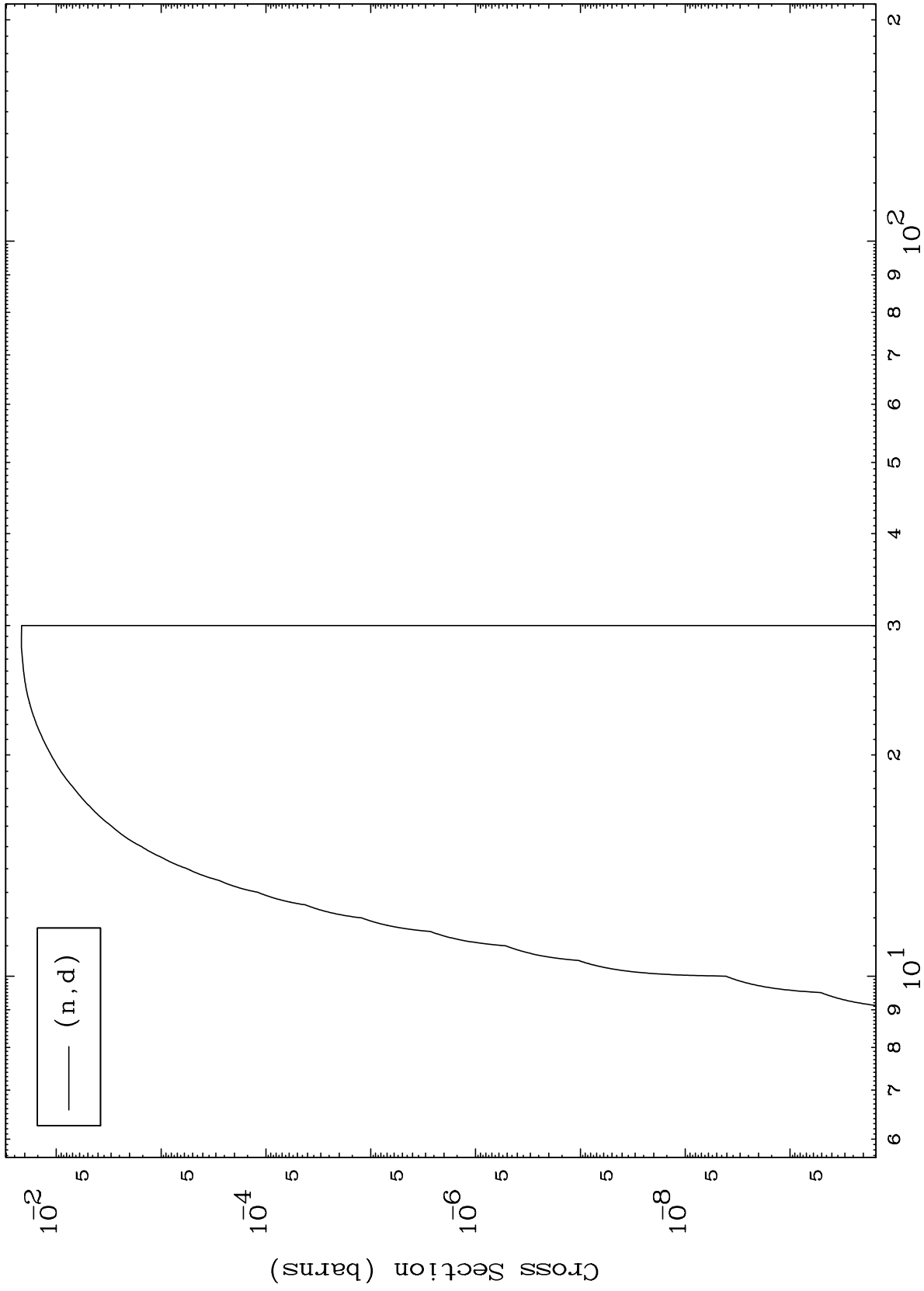
Incident Energy (MeV)

58-Ce-140

MAT 5837

(n,d) Levels
293 Kelvin Cross Sections

58-Ce-140



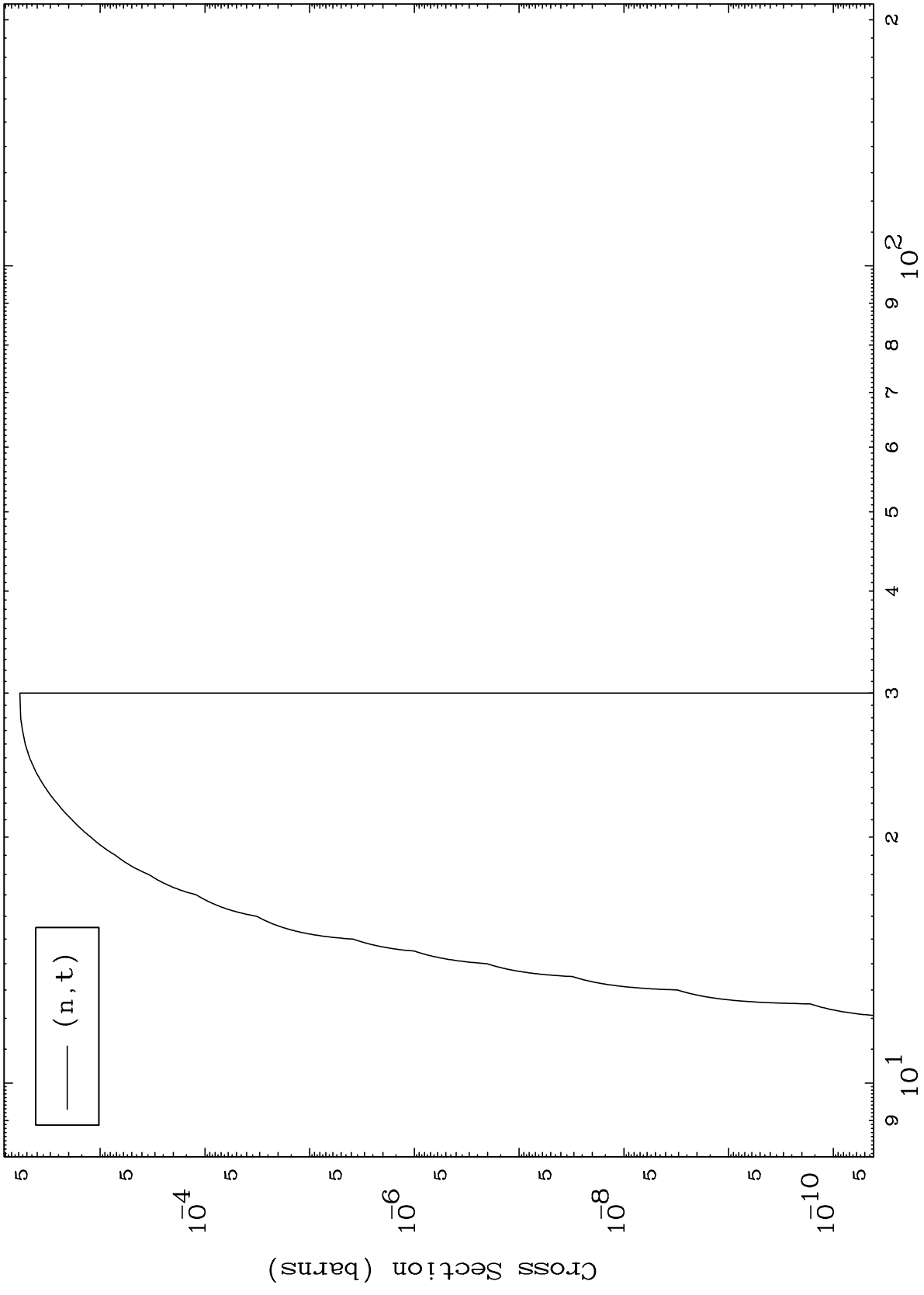
11

58-Ce-140

MAT 5837

(n,t) Levels
293 Kelvin Cross Sections

58-Ce-140



12

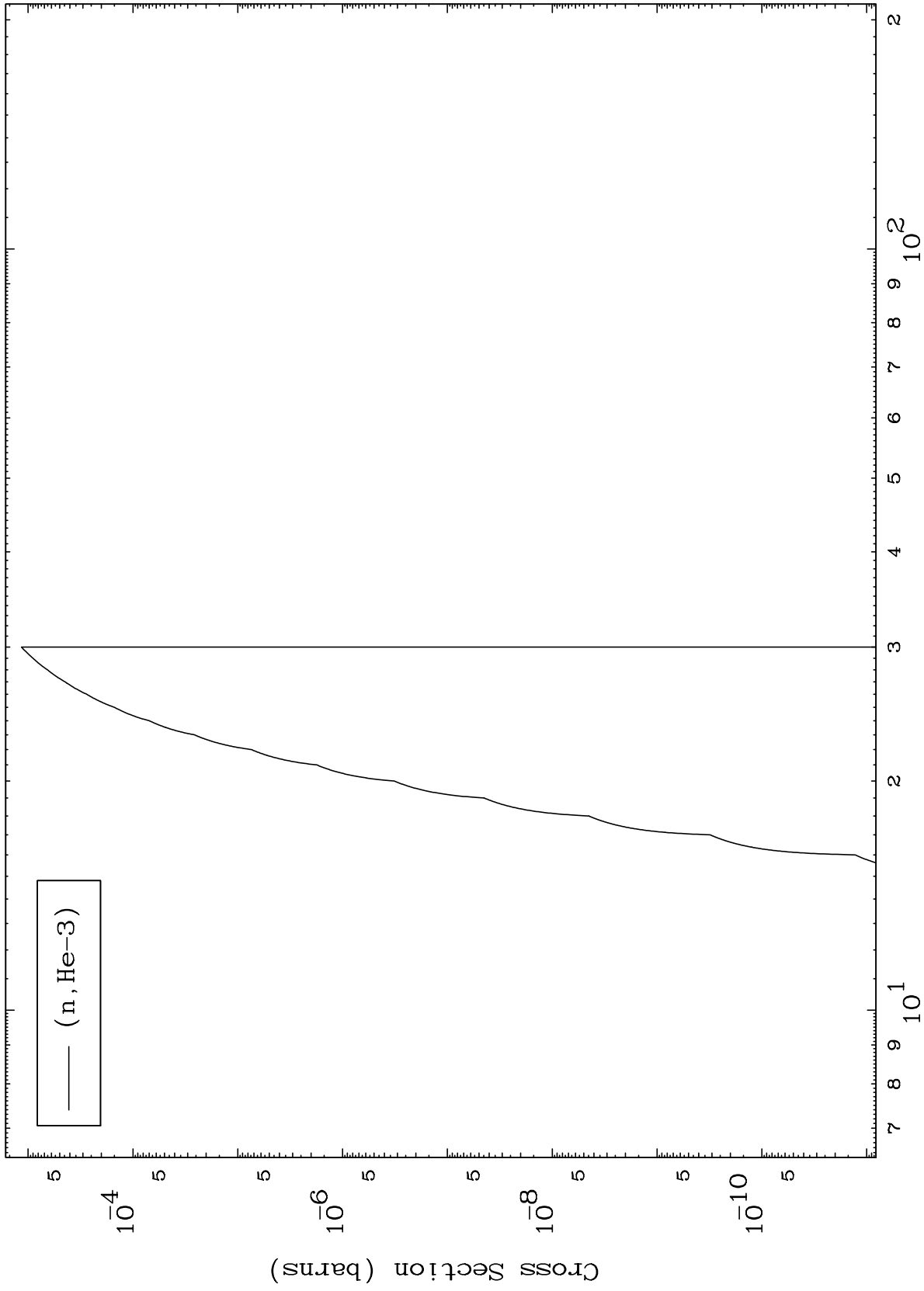
Incident Energy (MeV)

58-Ce-140

MAT 5837

(n,He3) Levels
293 Kelvin Cross Sections

58-Ce-140



13

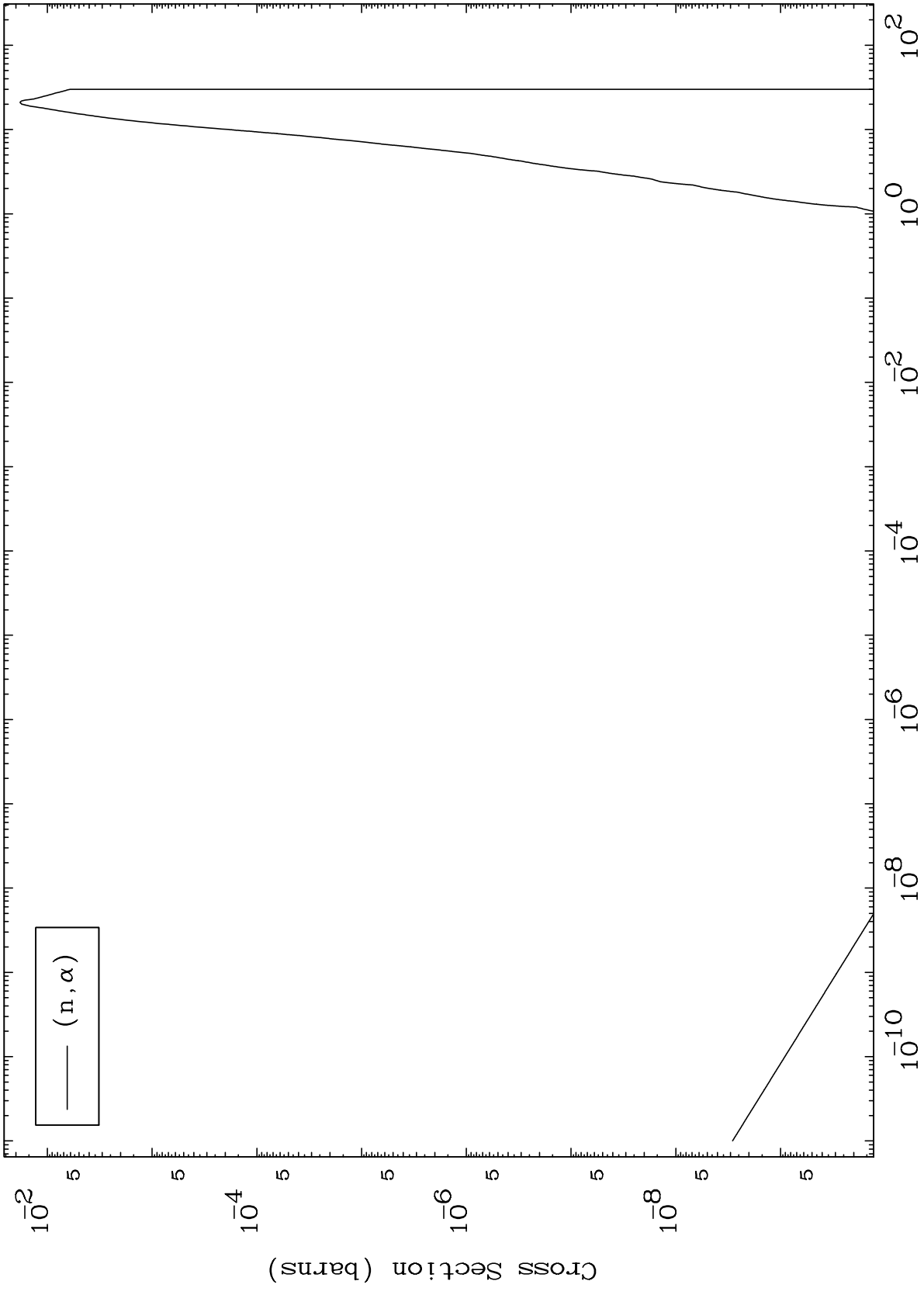
Incident Energy (MeV)

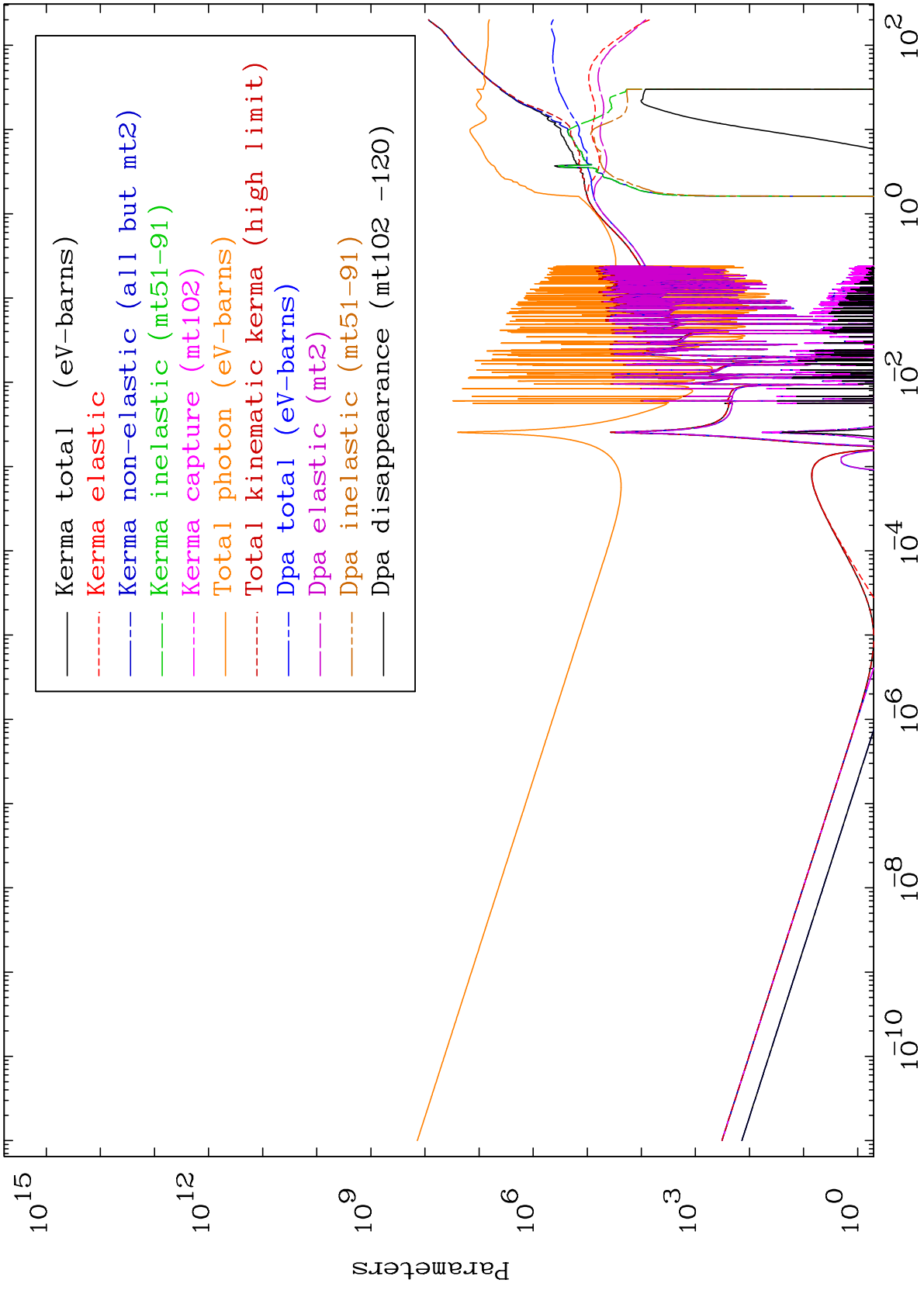
58-Ce-140

MAT 5837

(n,α) Levels
293 Kelvin Cross Sections

58-Ce-140

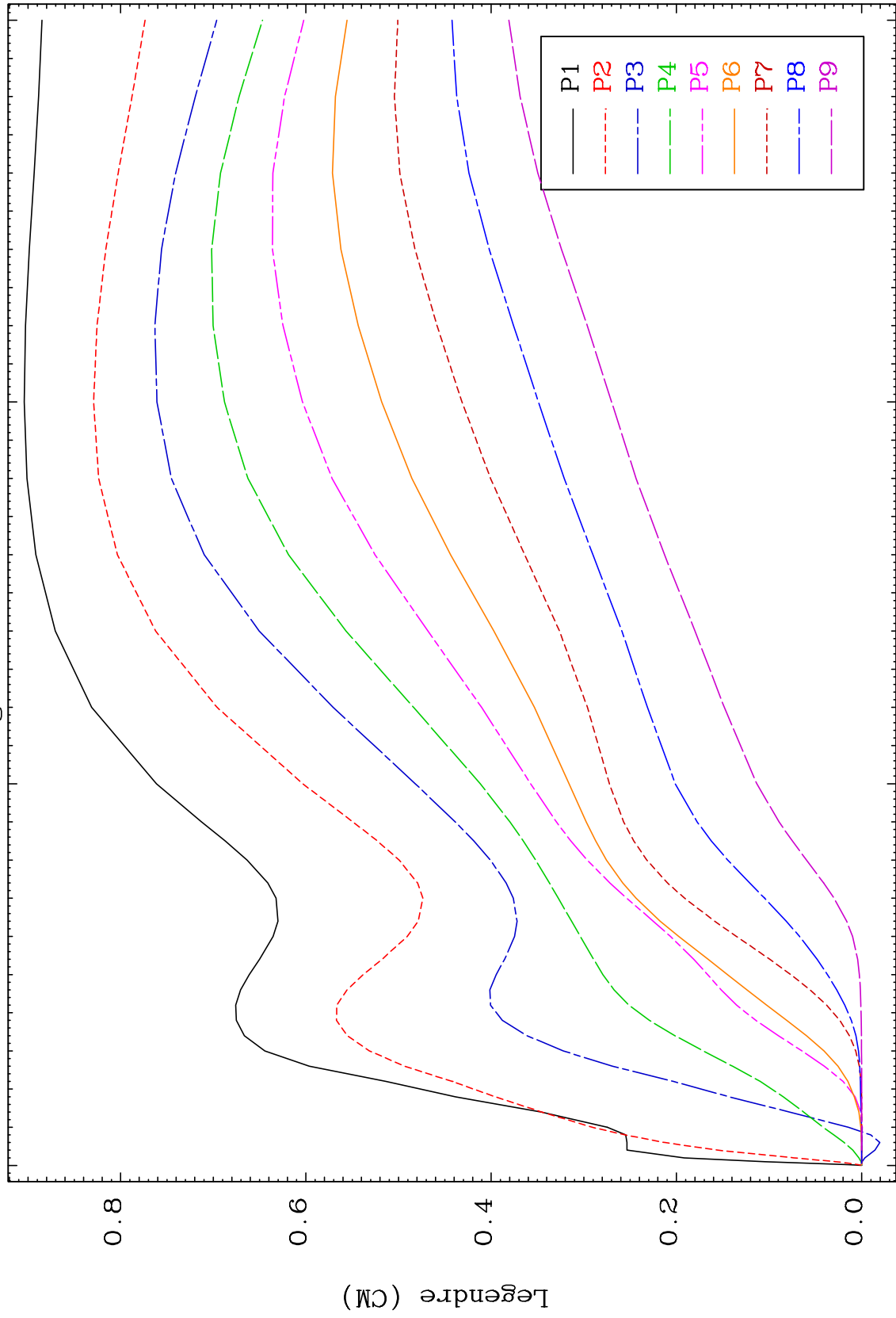




MAT 5837

Elastic Legendre Coefficients

58-Ce-140



16

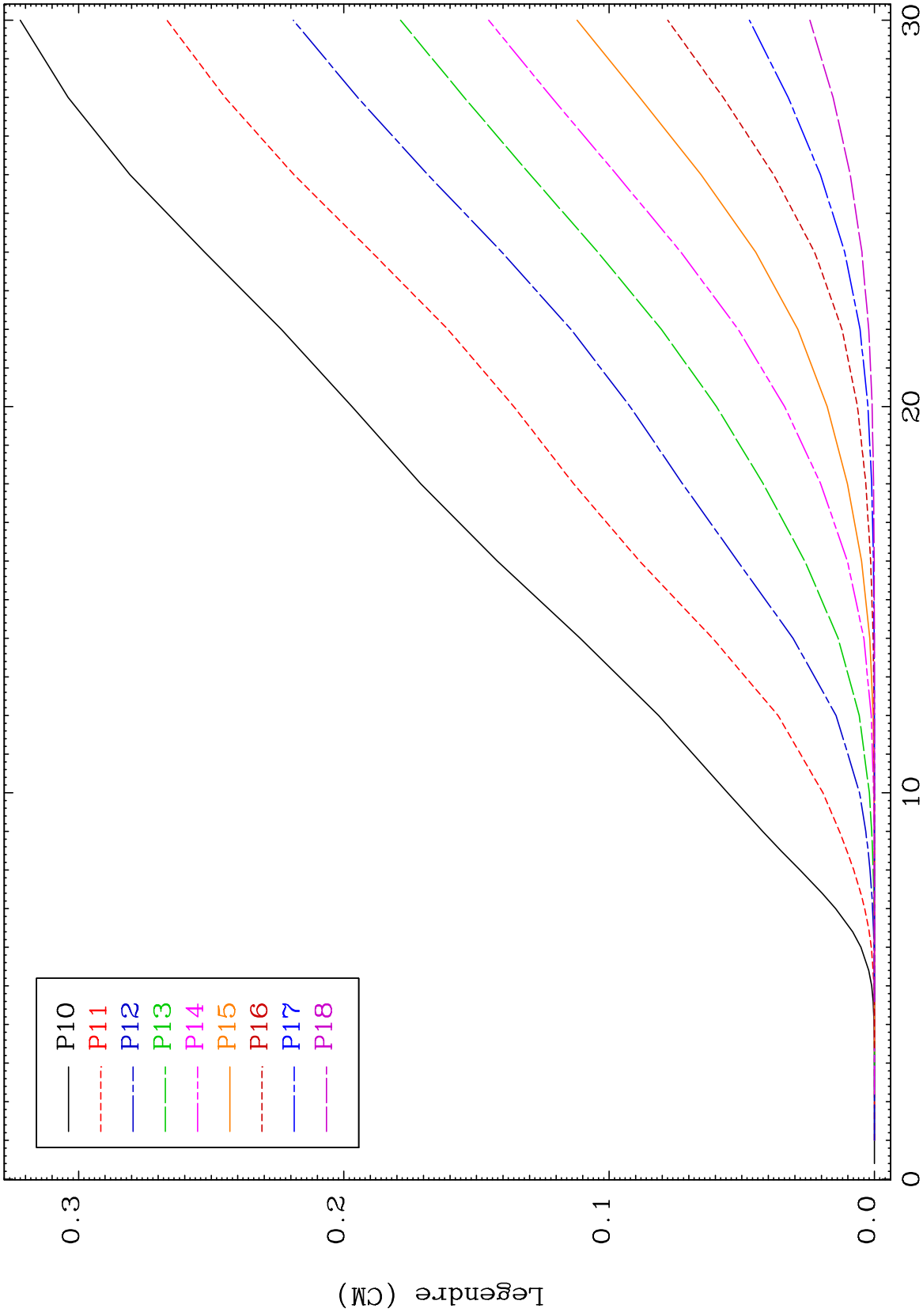
Incident Energy (MeV)

58-Ce-140

MAT 5837

Elastic Legendre Coefficients

58-Ce-140



17

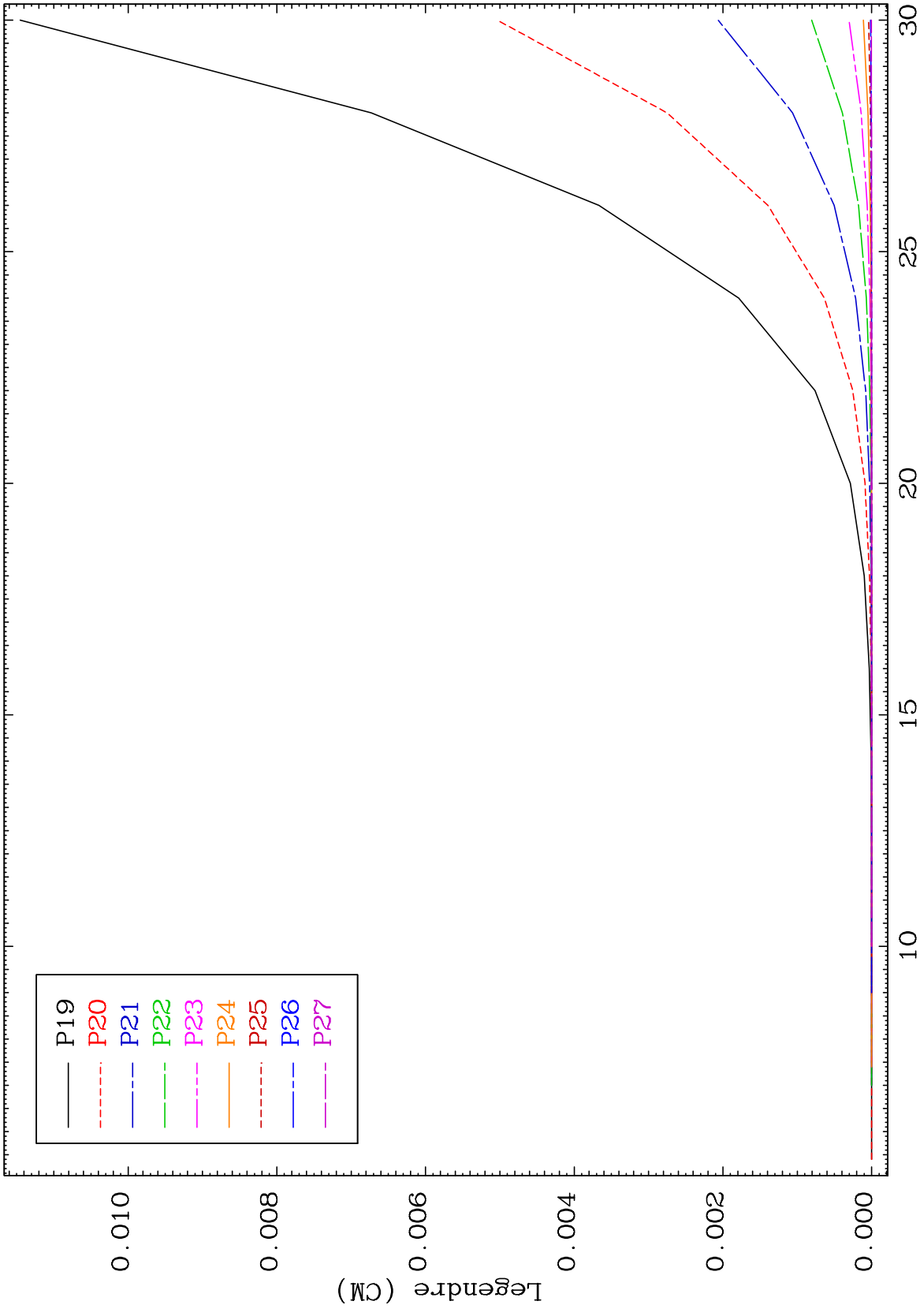
Incident Energy (MeV)

58-Ce-140

MAT 5837

Elastic Legendre Coefficients

58-Ce-140



18

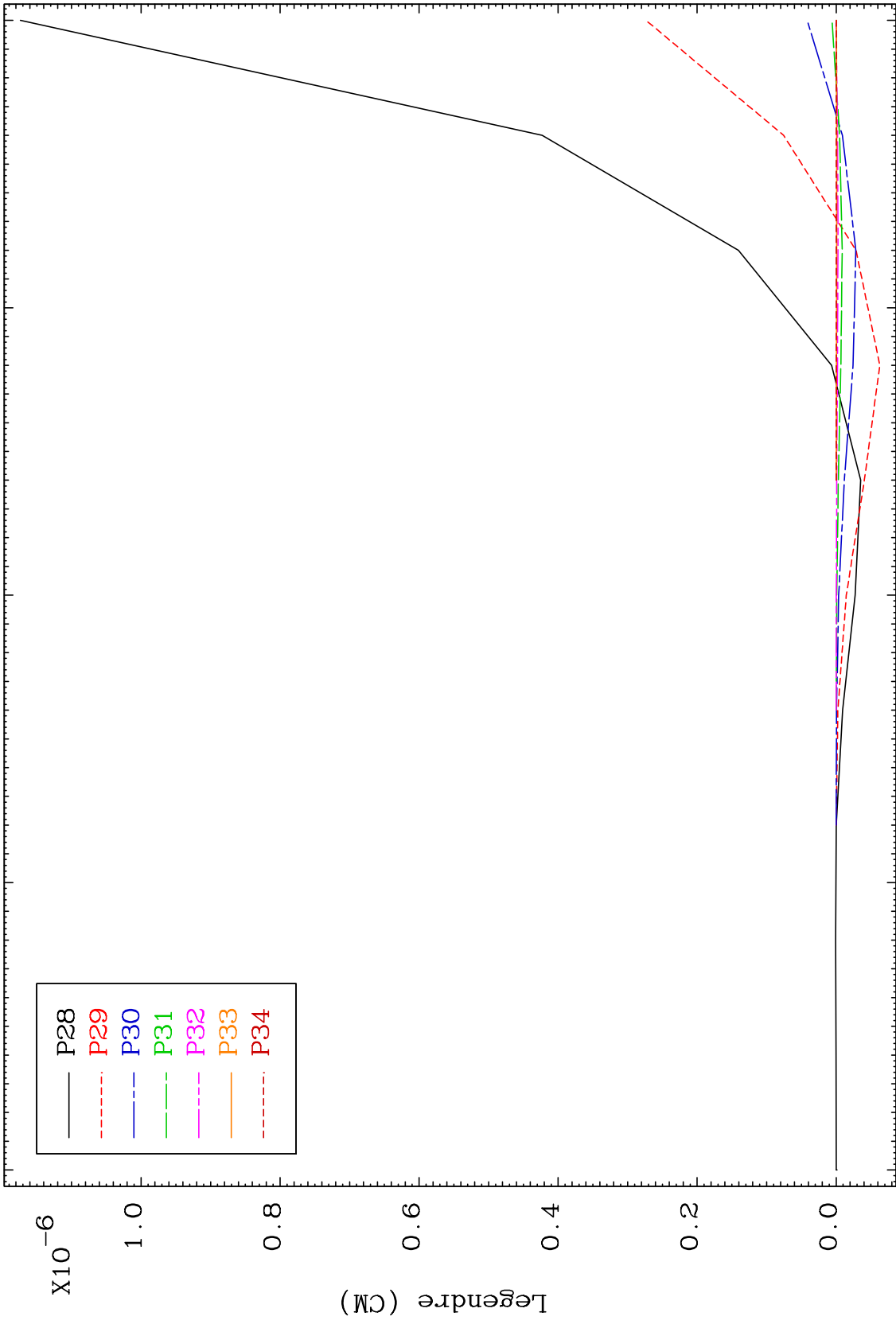
Incident Energy (MeV)

58-Ce-140

MAT 5837

Elastic Legendre Coefficients

58-Ce-140



19

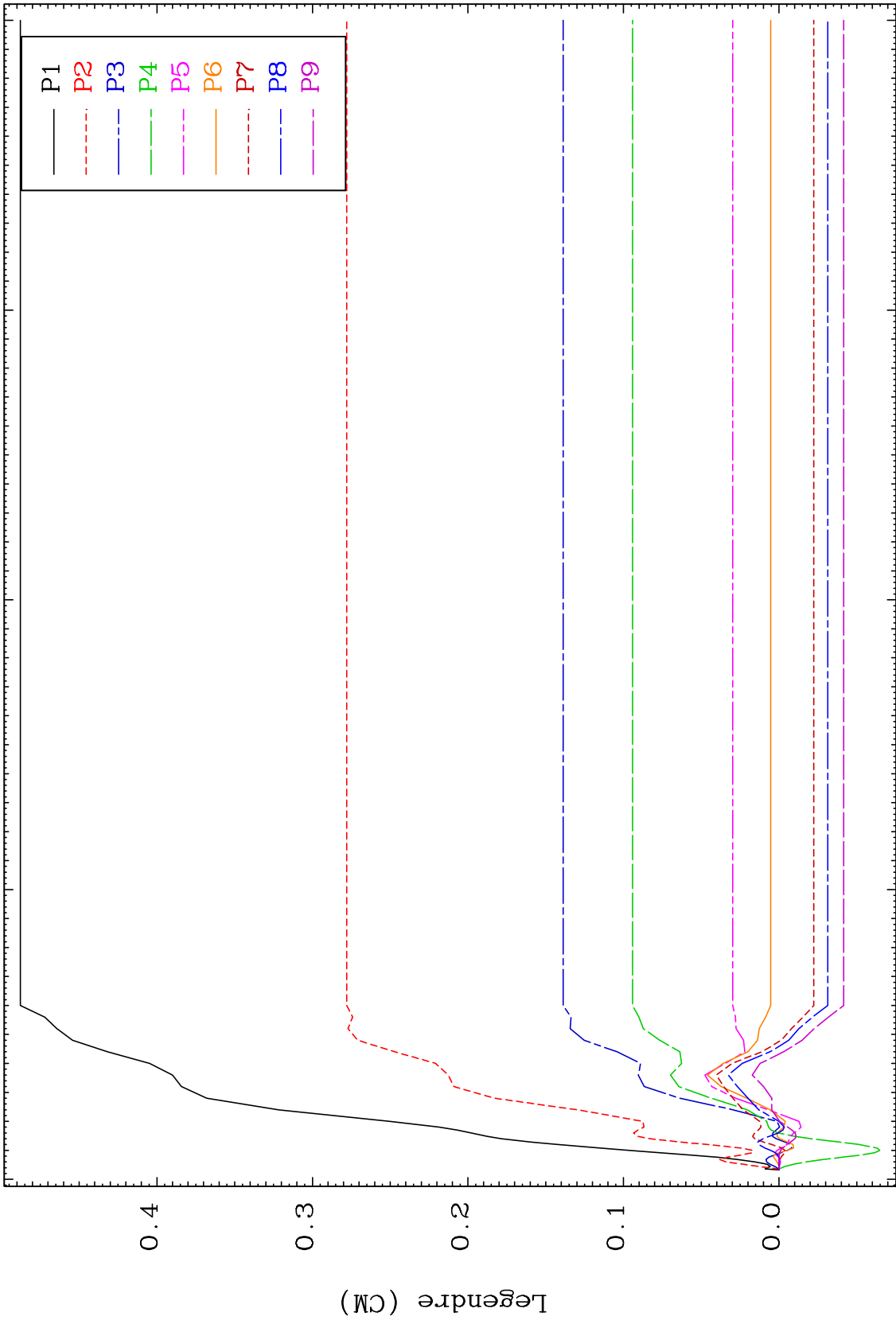
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



20

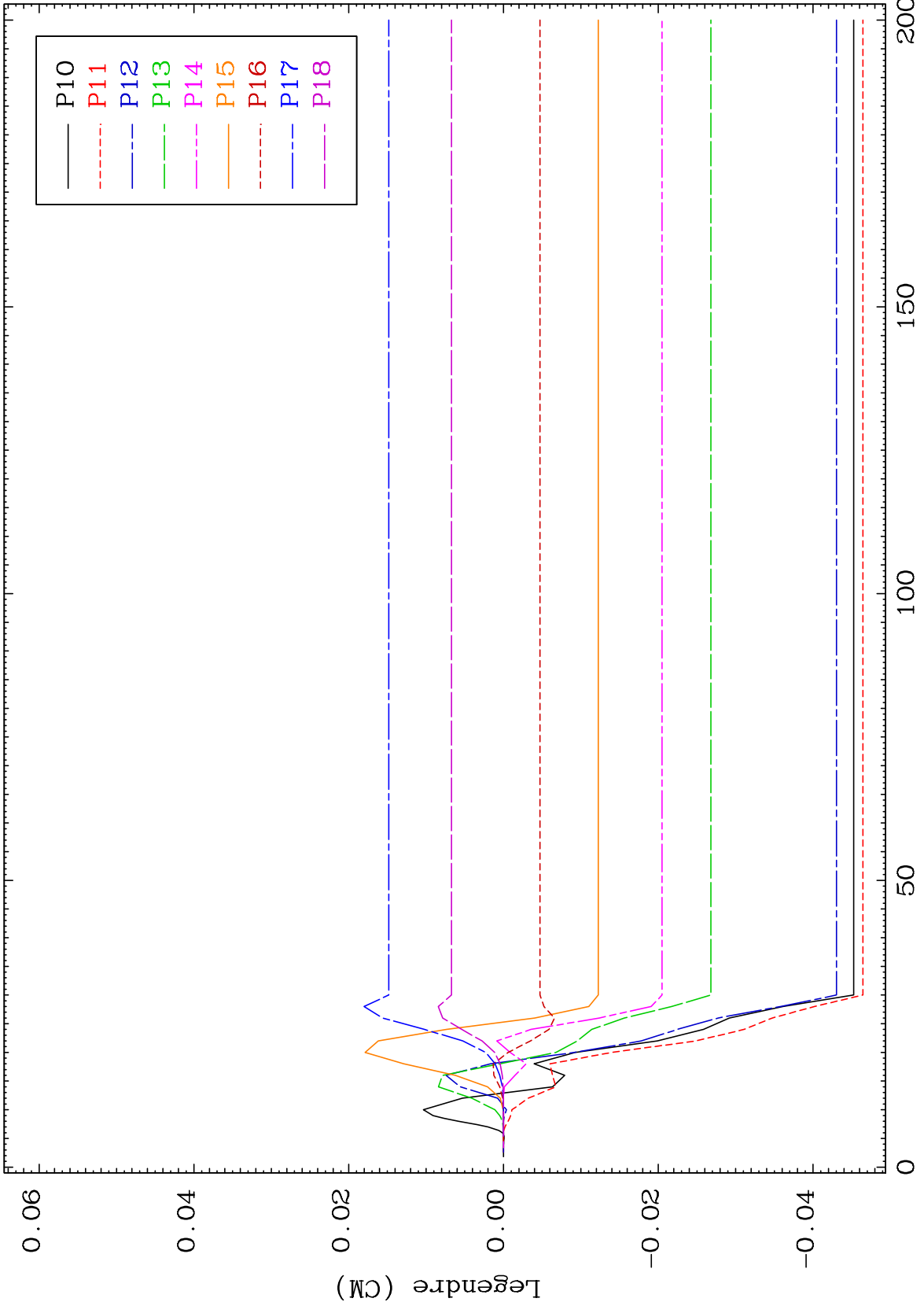
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



21

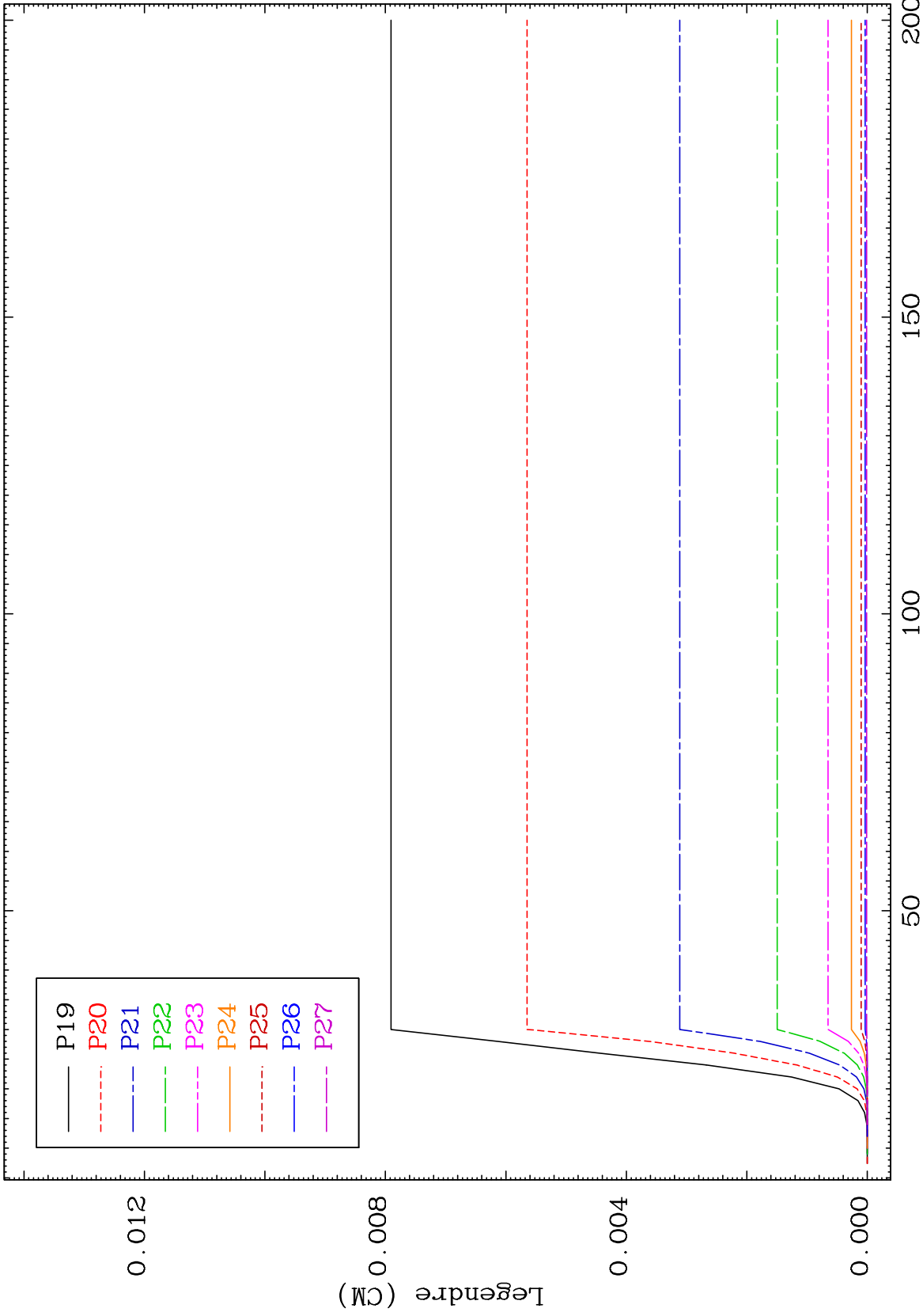
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



22

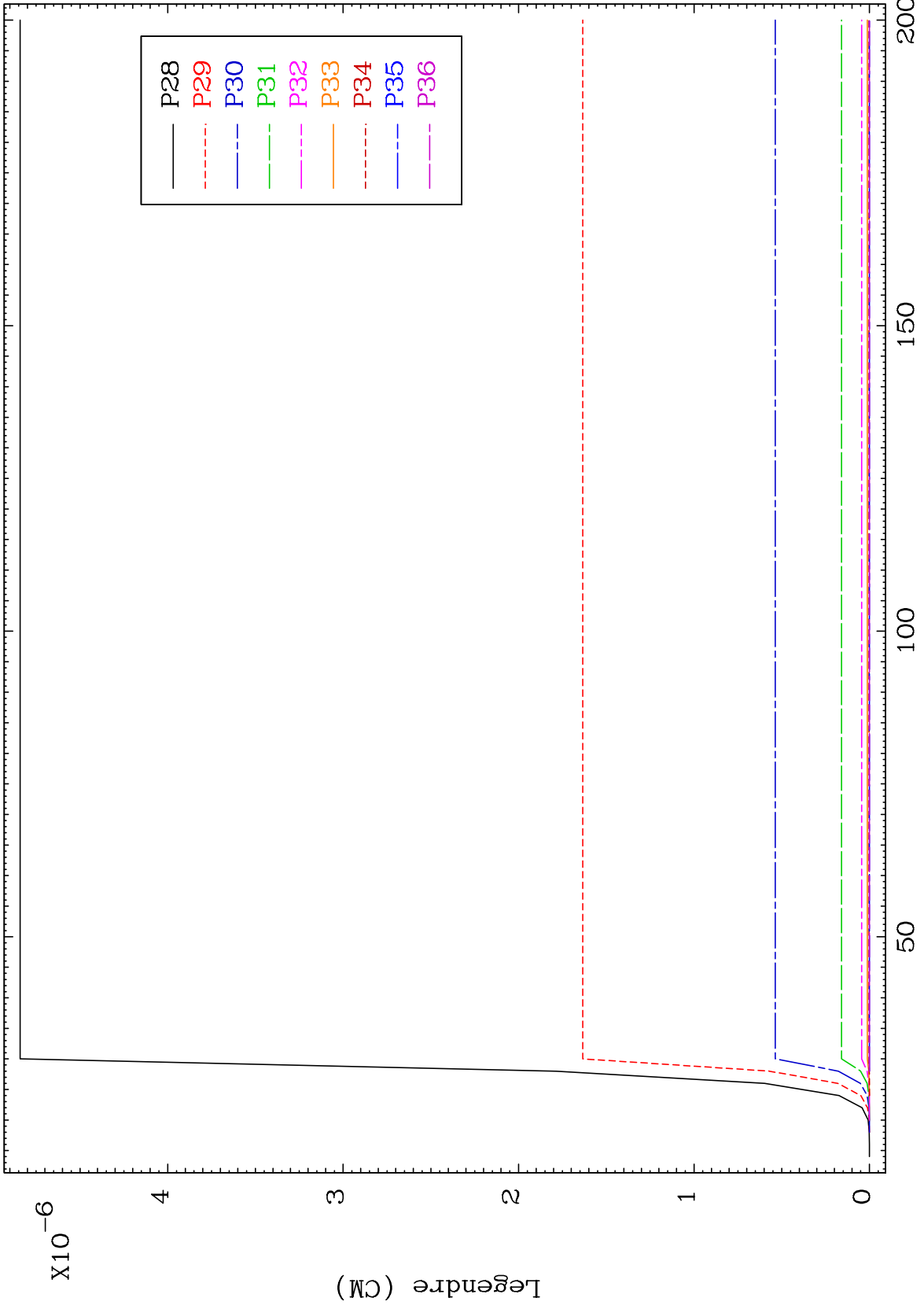
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



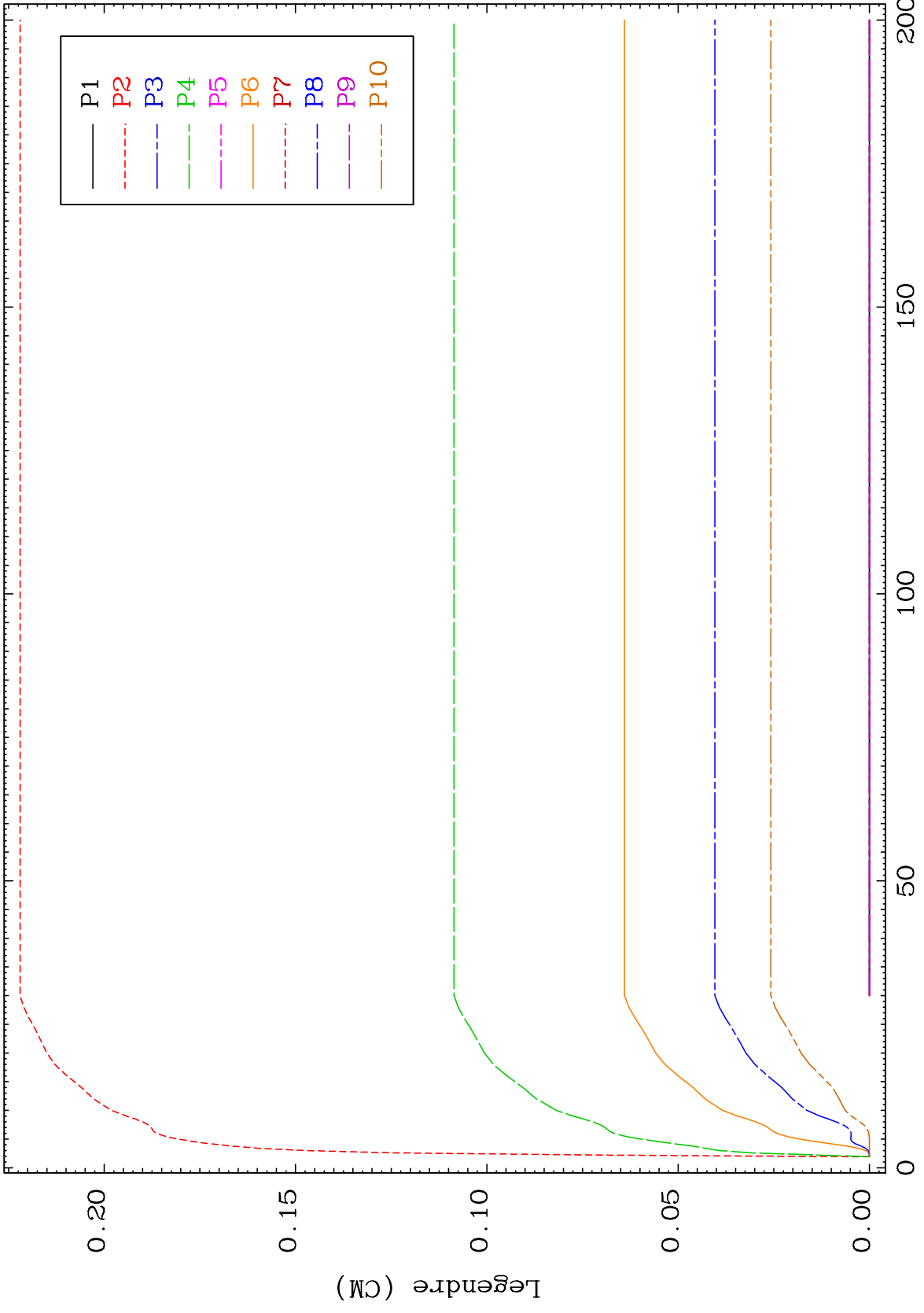
23

58-Ce-140

MAT 5837

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

58-Ce-140

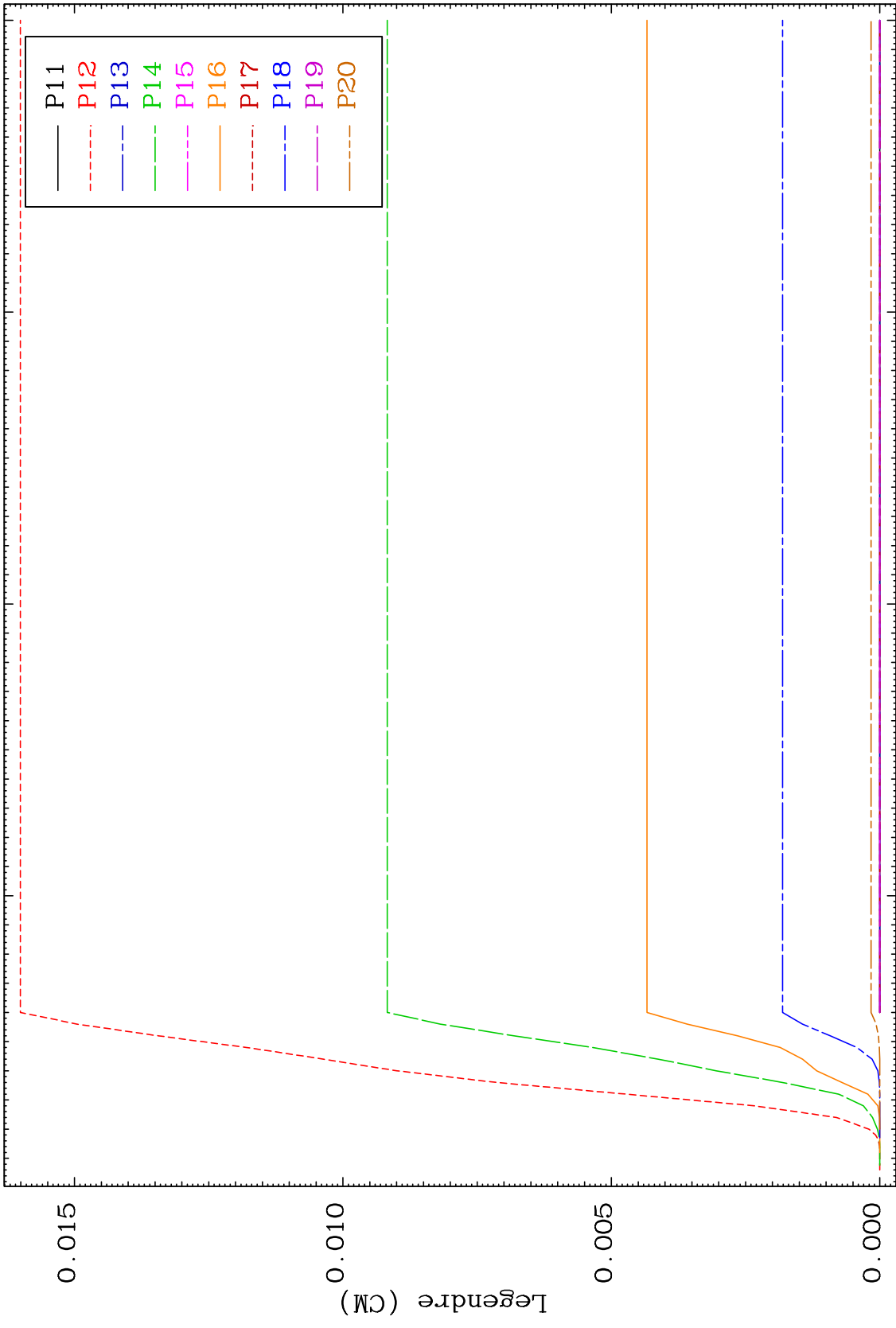


24

Incident Energy (MeV)

58-Ce-140

MAT 5837 MT= 52 (n,n') Level Legendre Coefficients 58-Ce-140

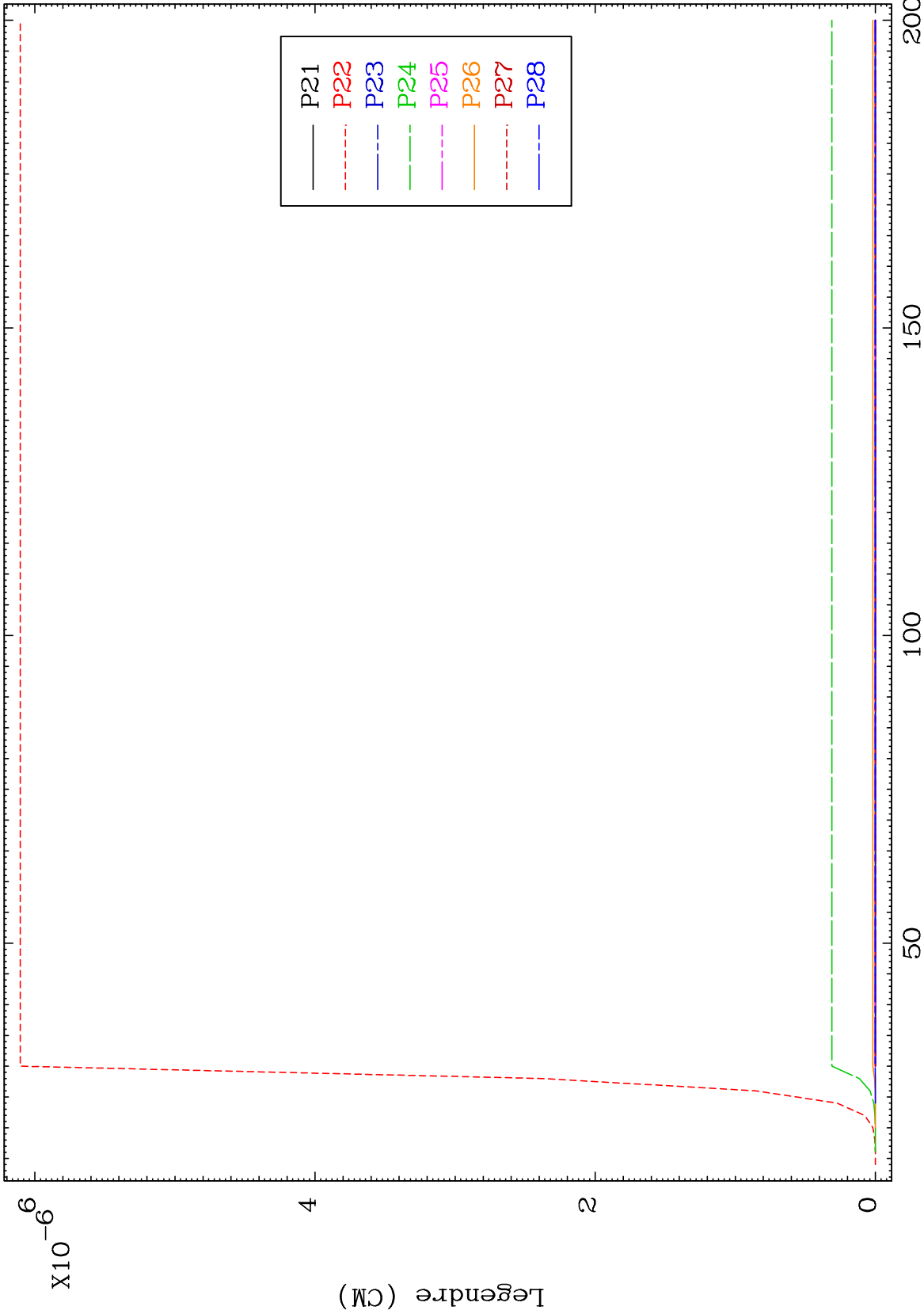


25 Incident Energy (MeV) 58-Ce-140

MAT 5837

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

58-Ce-140



26

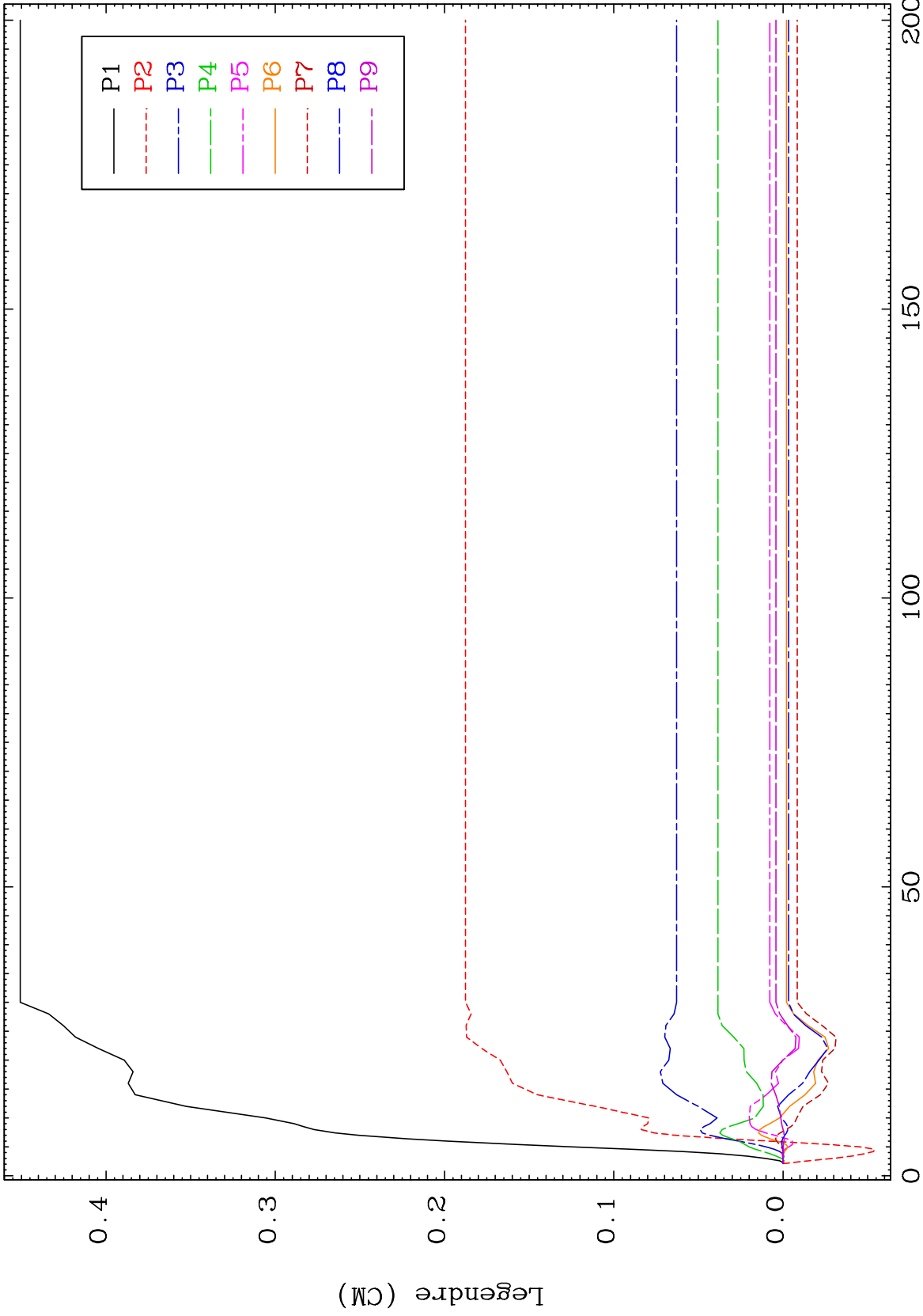
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



27

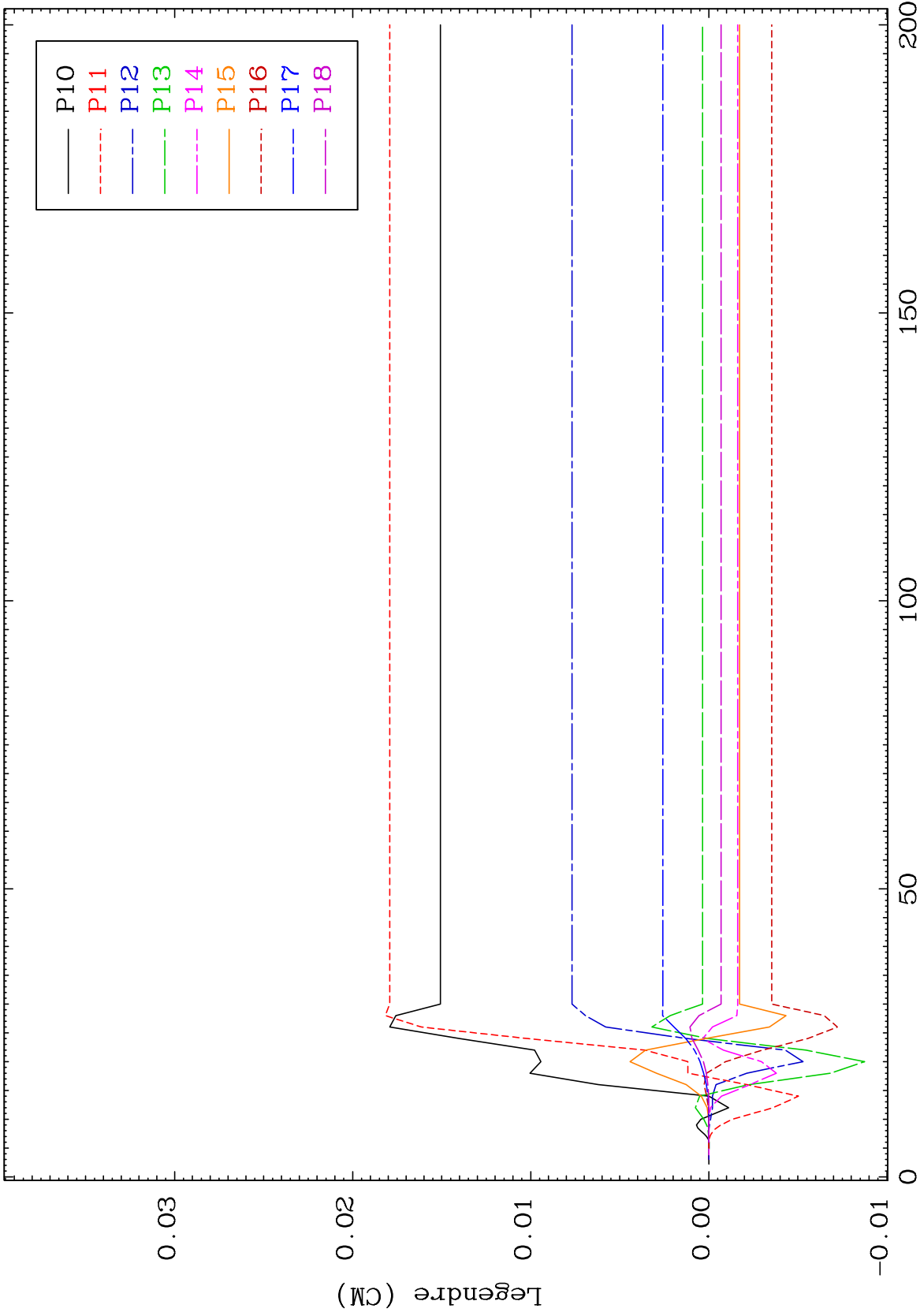
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



28

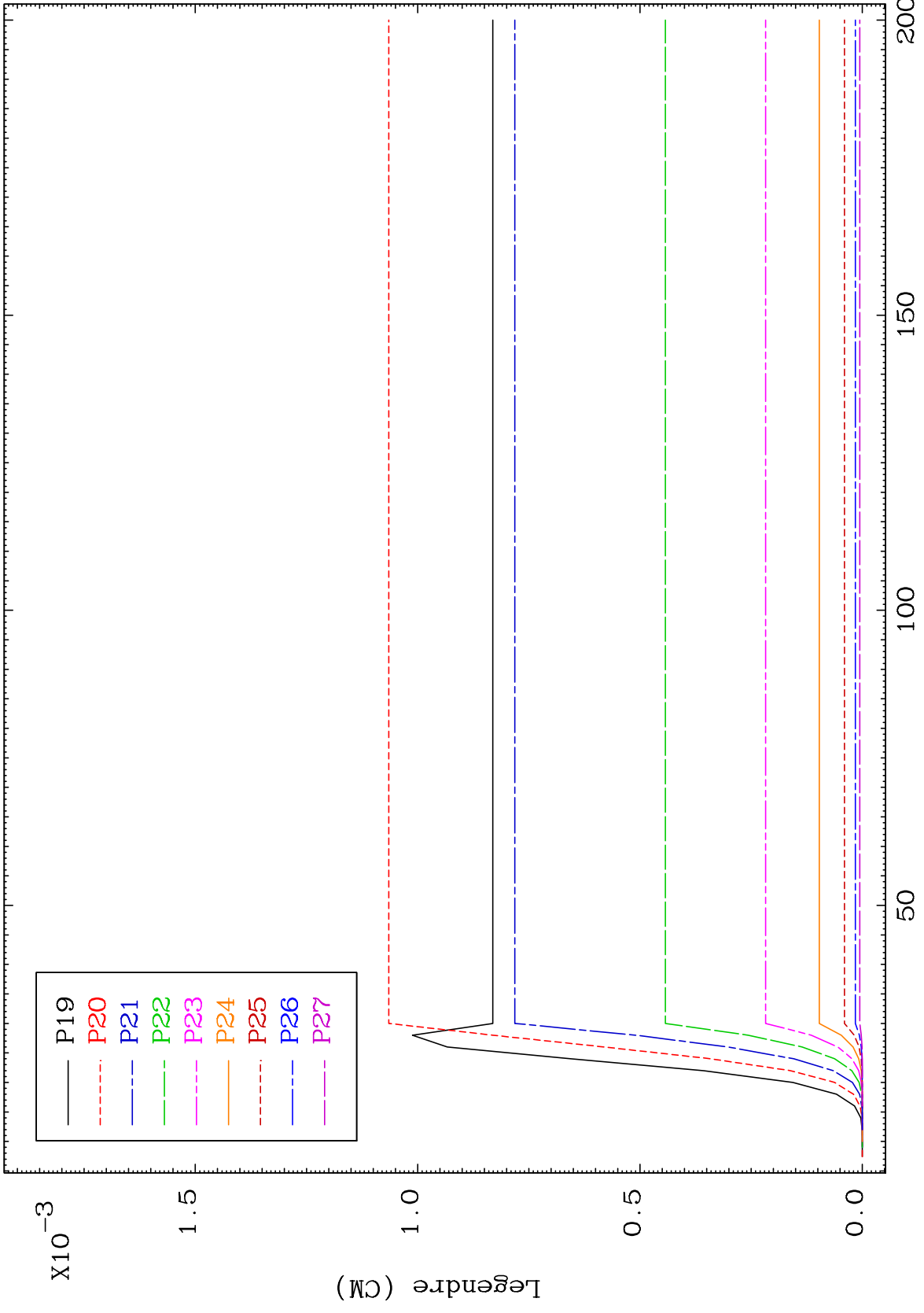
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



29

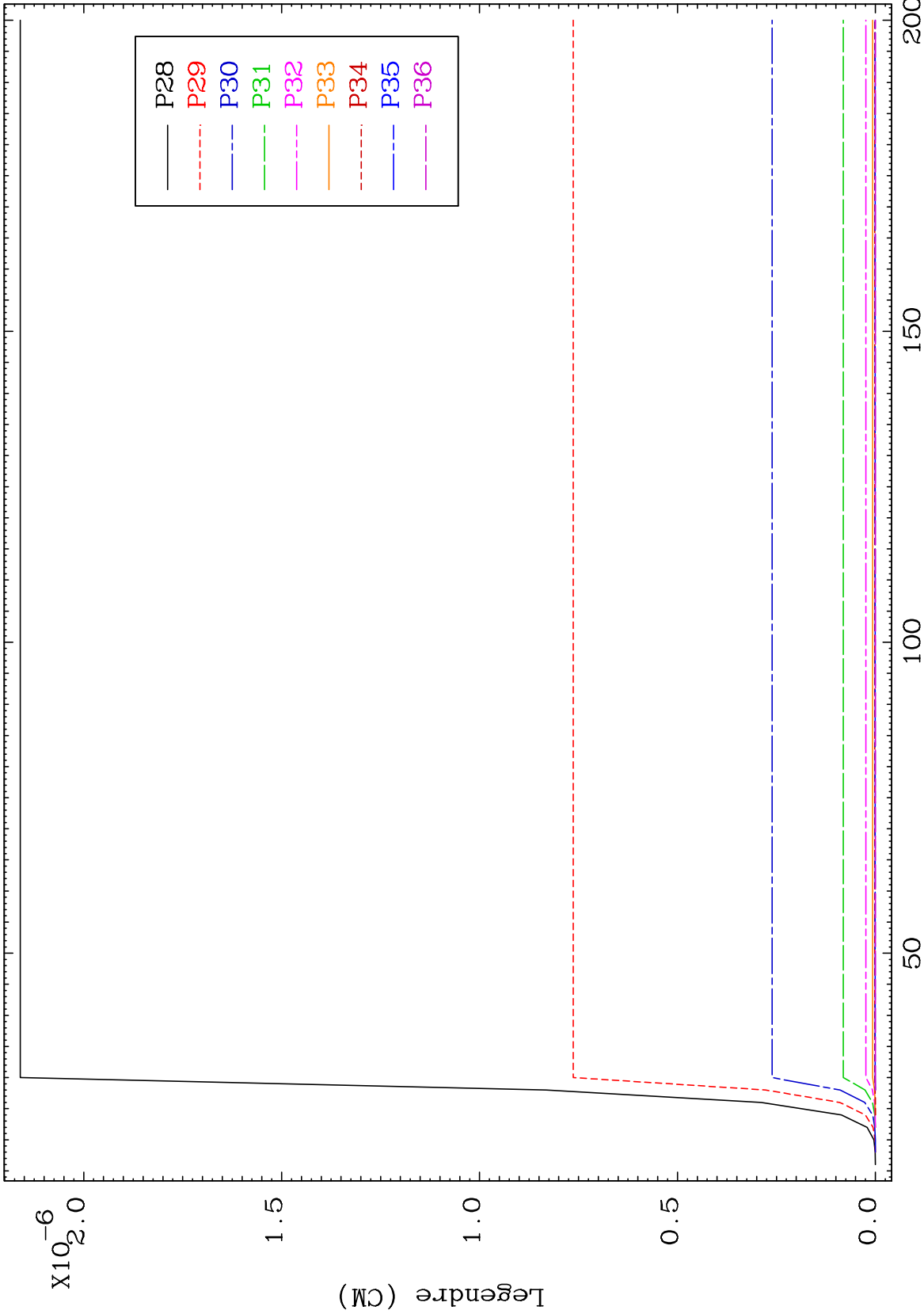
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



30

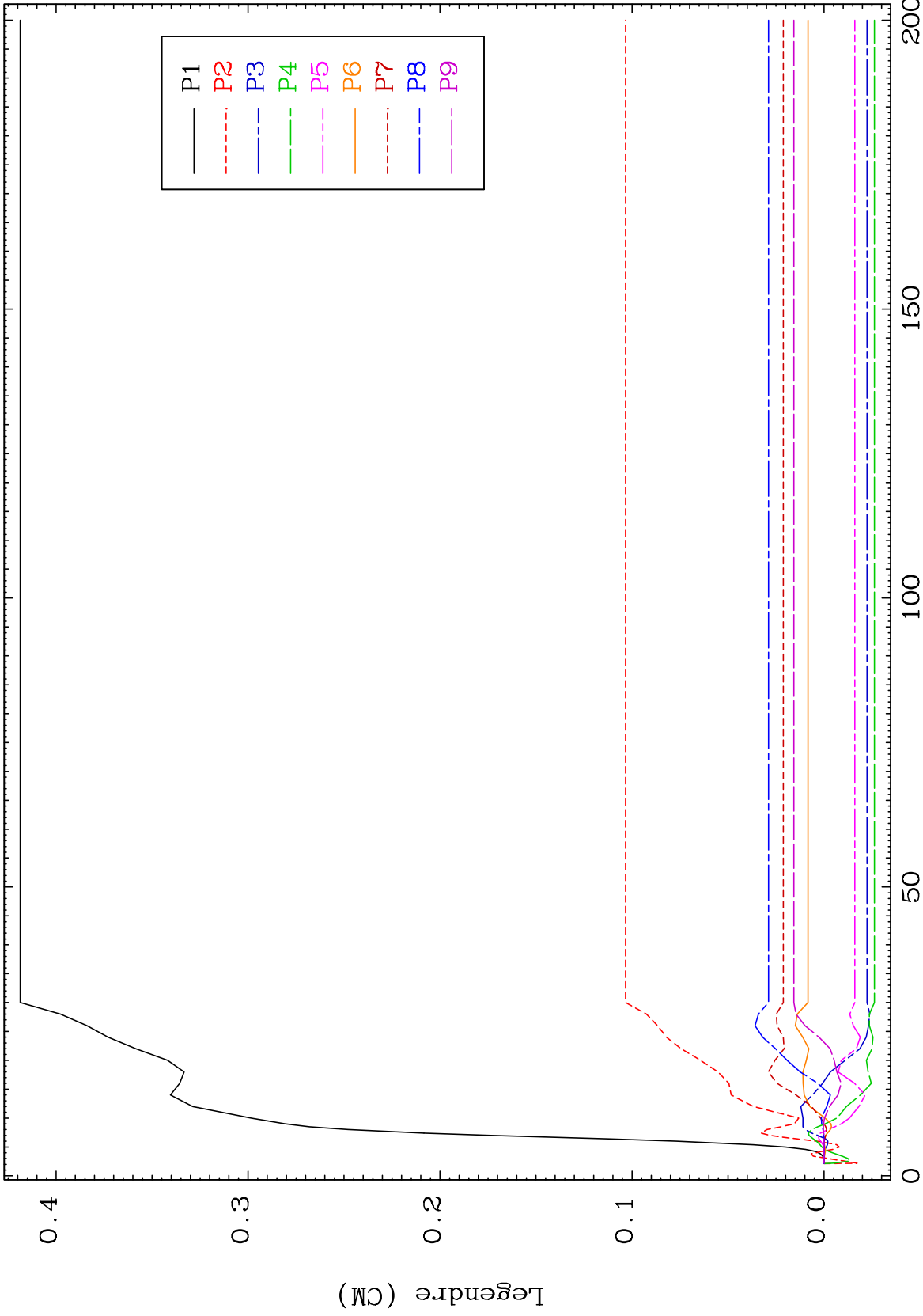
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



31

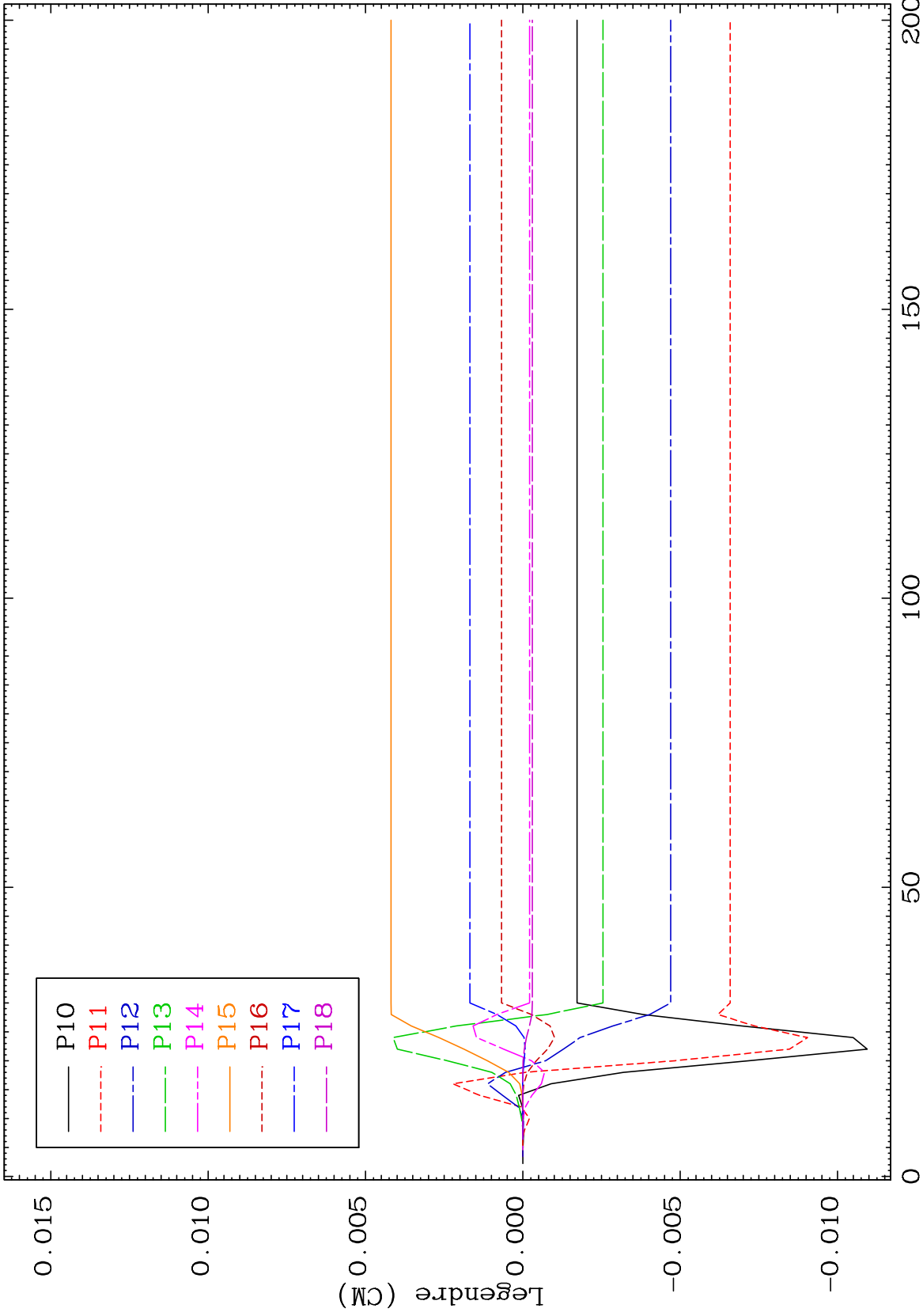
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



32

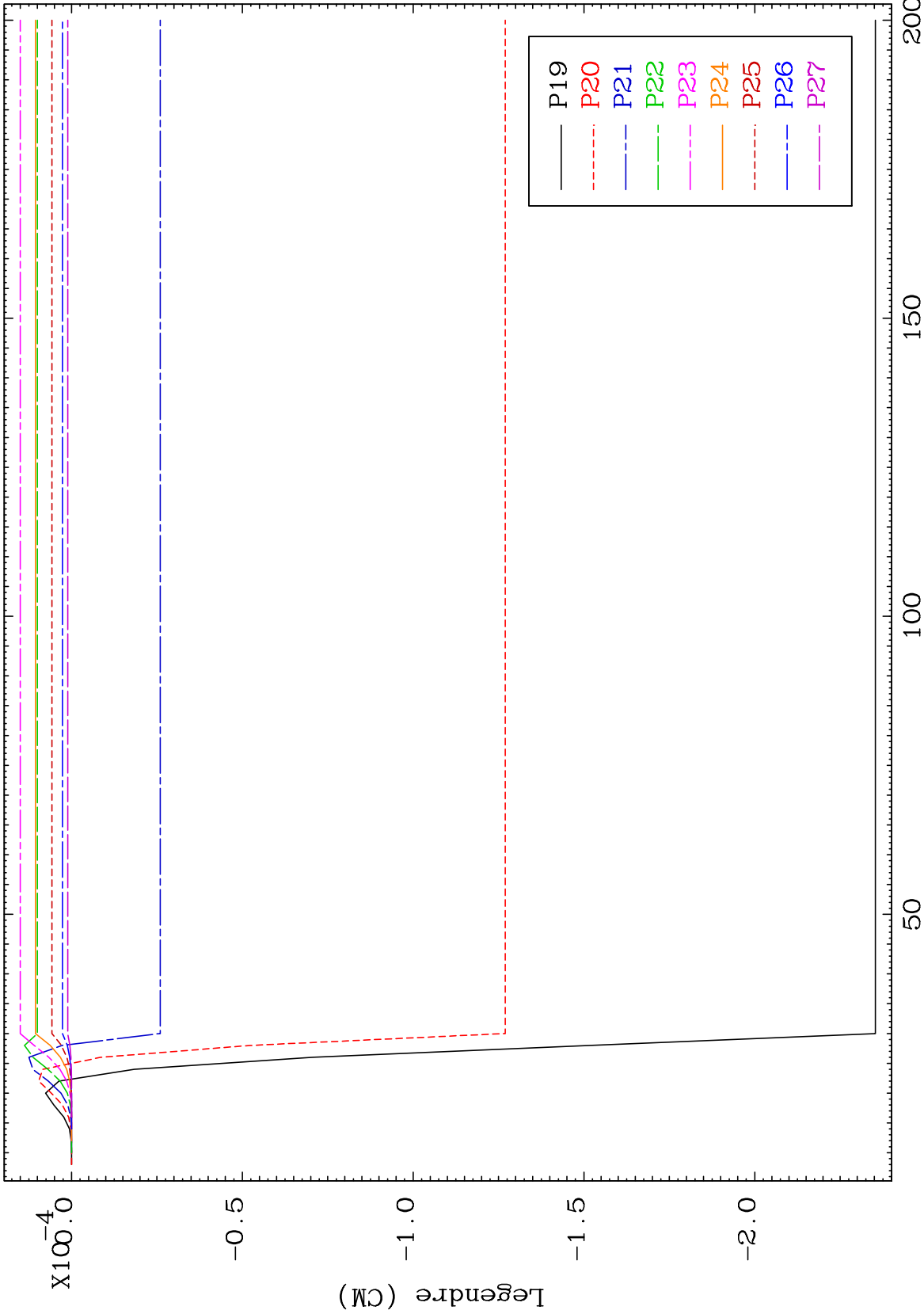
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



33

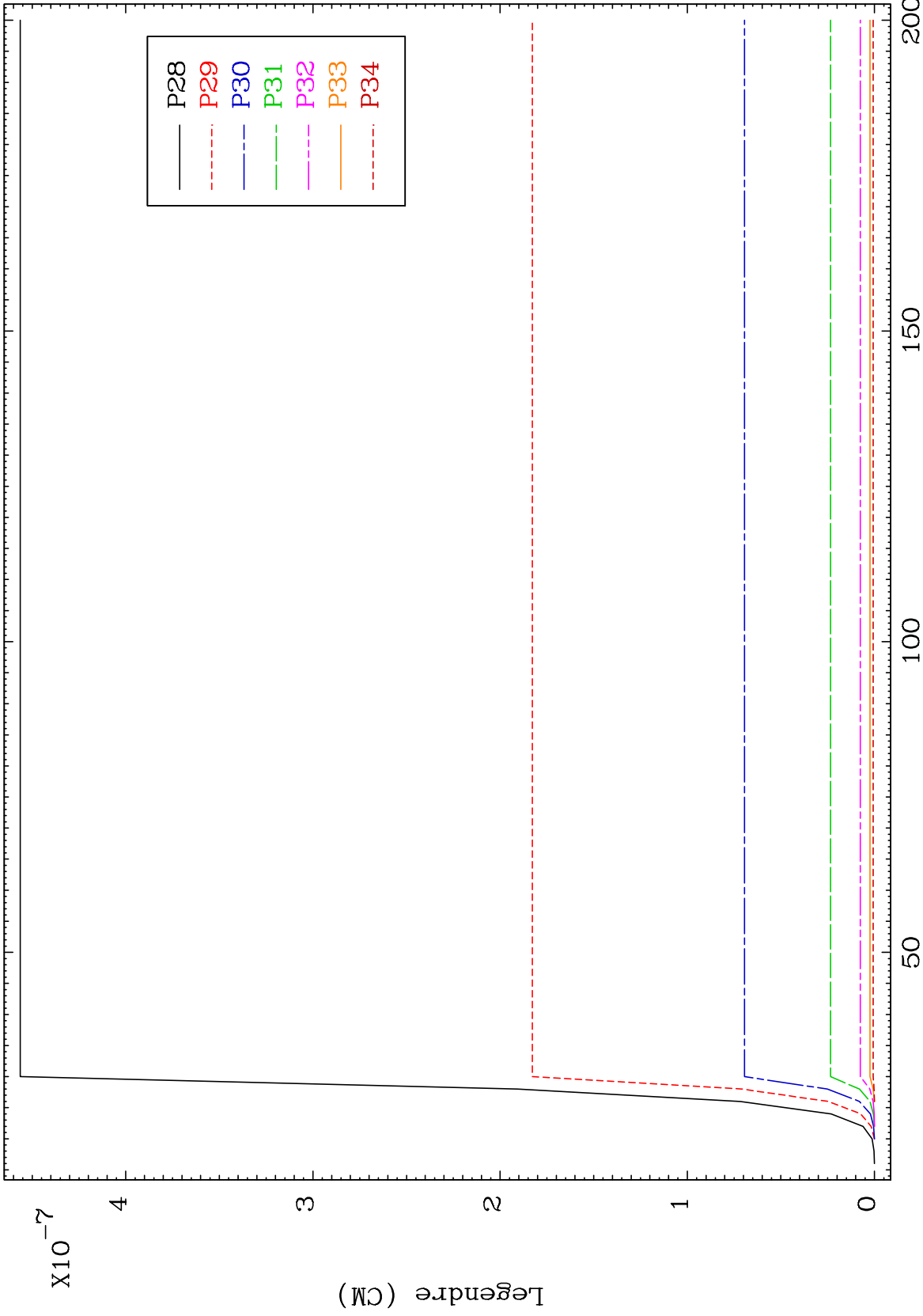
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



34

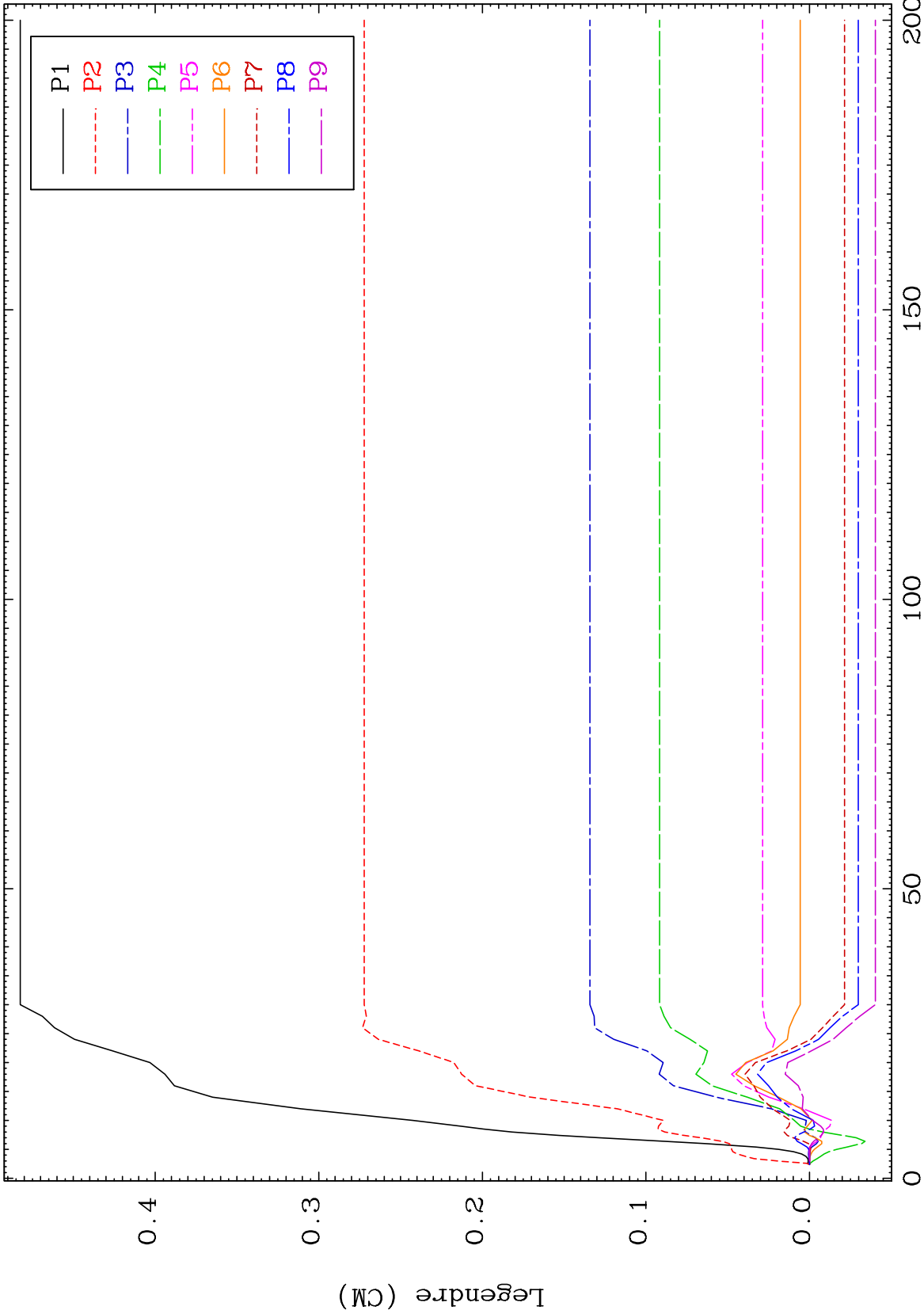
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



35

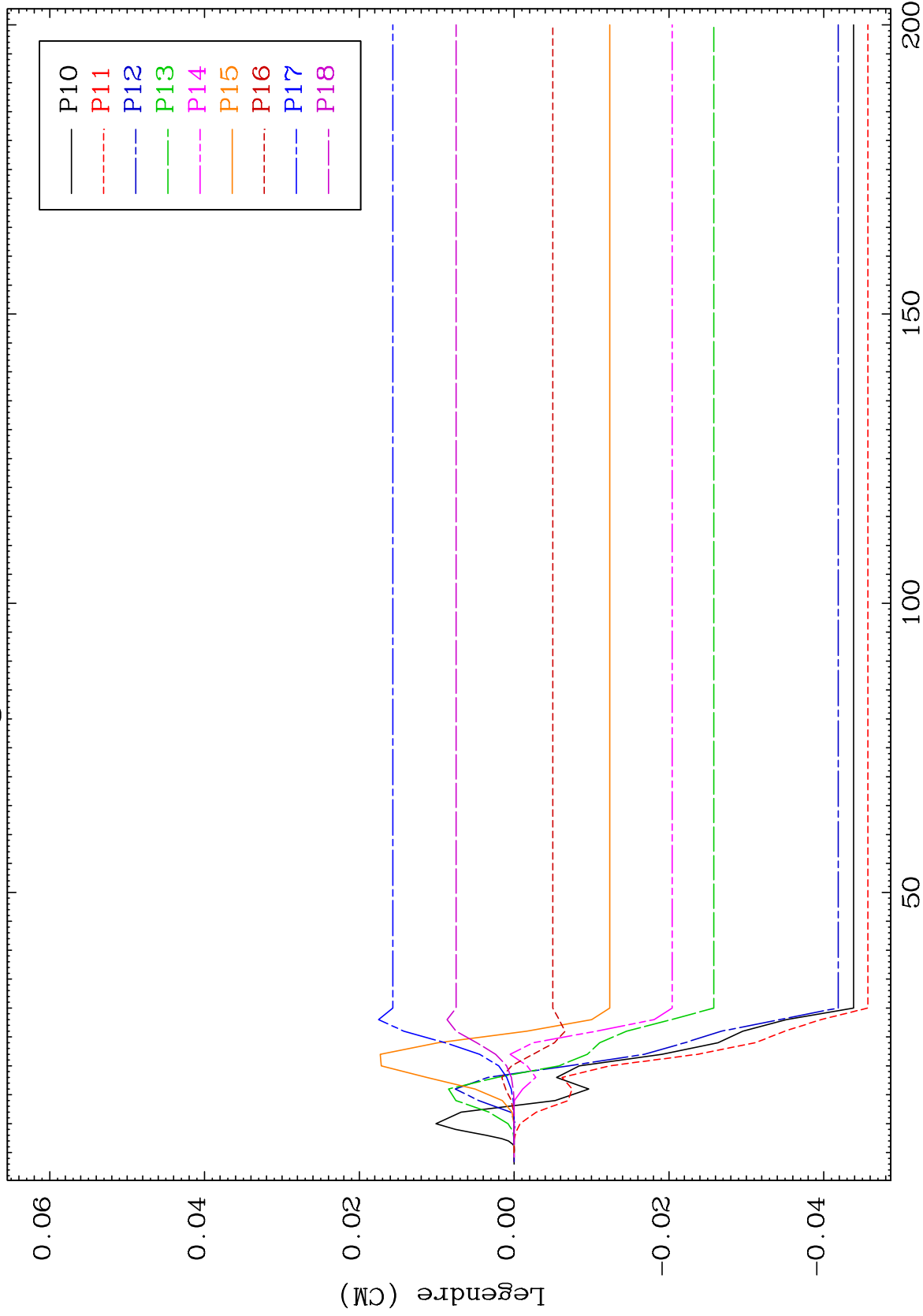
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



36

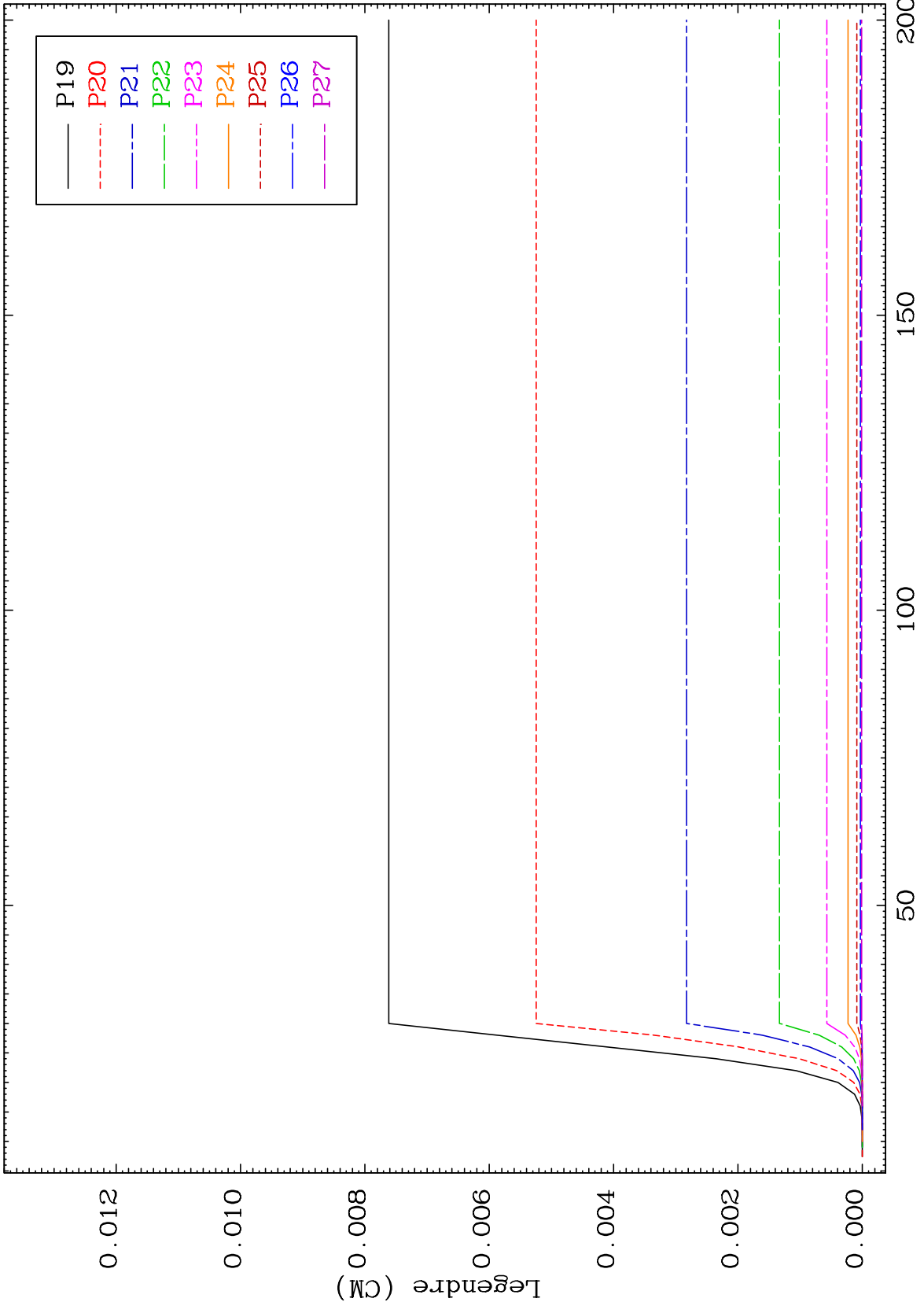
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



37

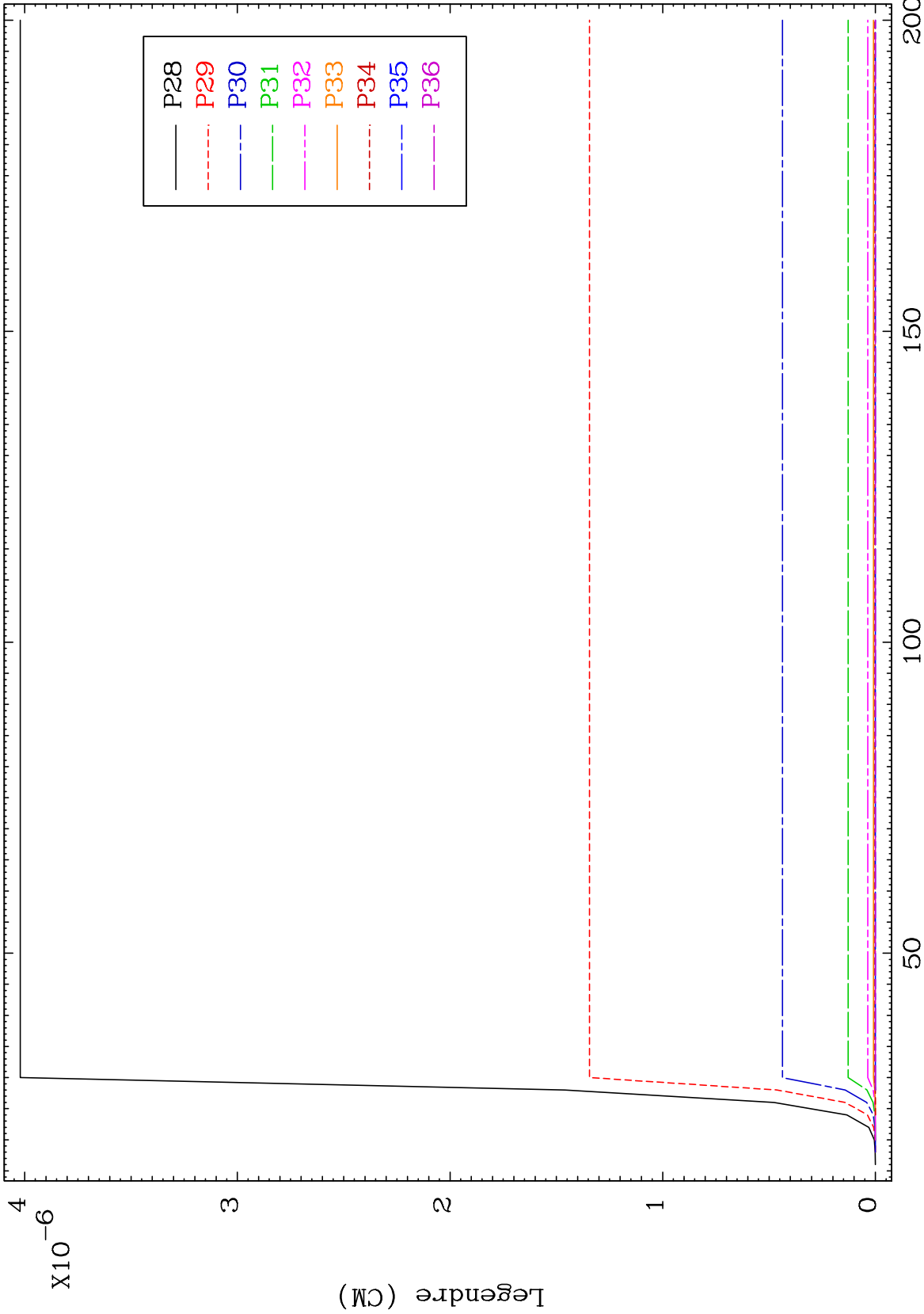
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140

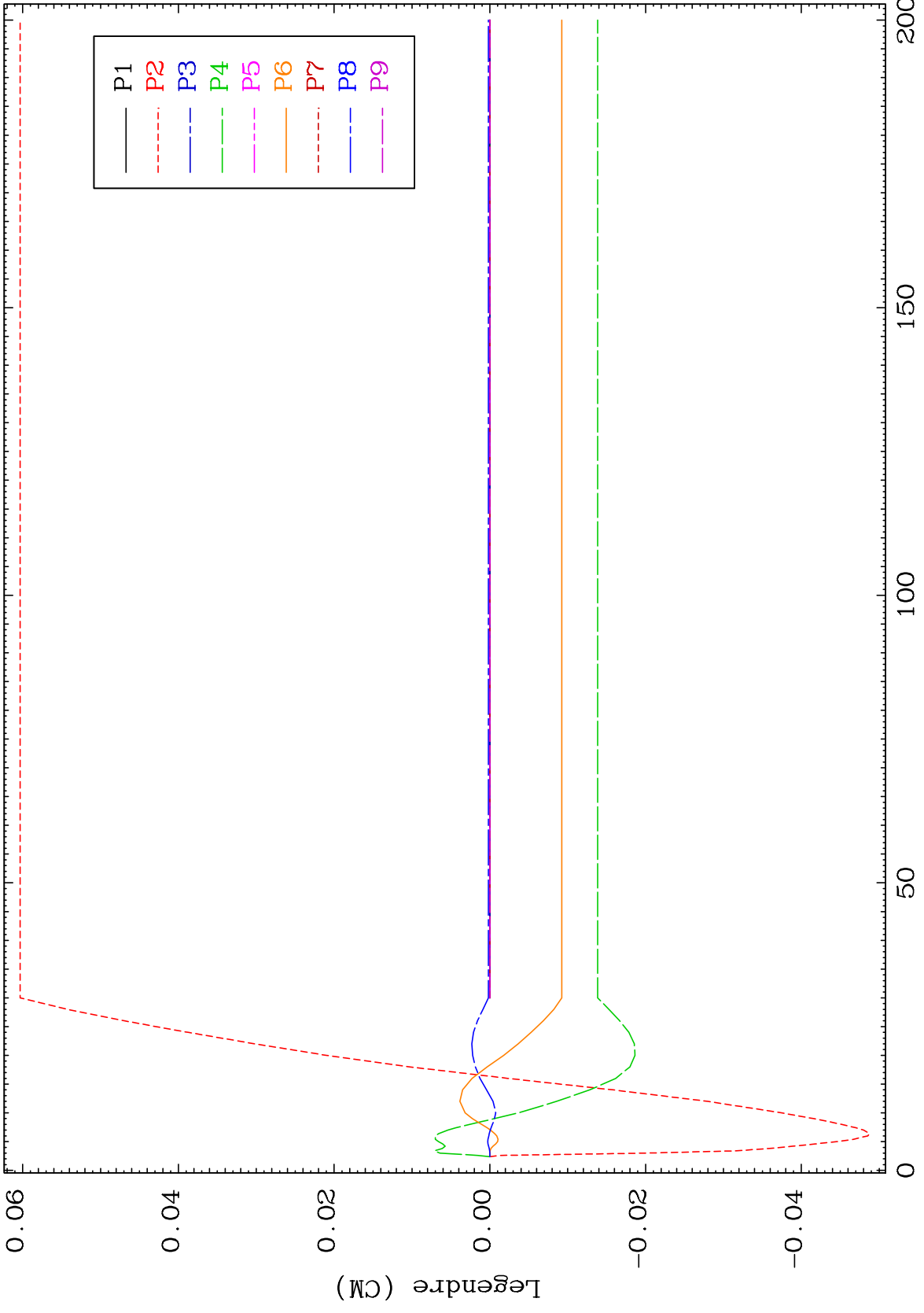


38

Incident Energy (MeV)

58-Ce-140

MAT 5837 MT= 56 (n,n') Level Legendre Coefficients 58-Ce-140

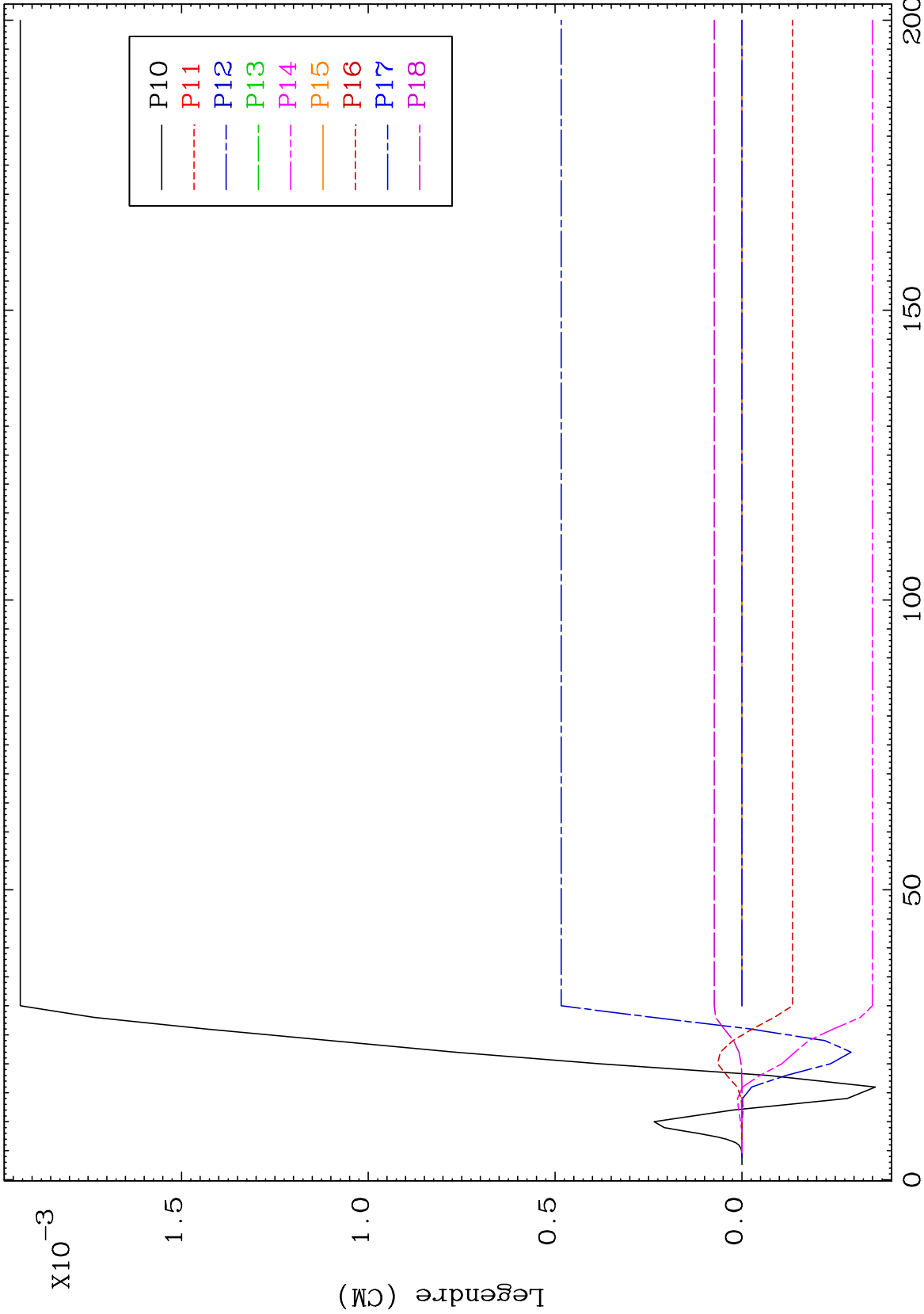


39 58-Ce-140

MAT 5837

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

58-Ce-140



40

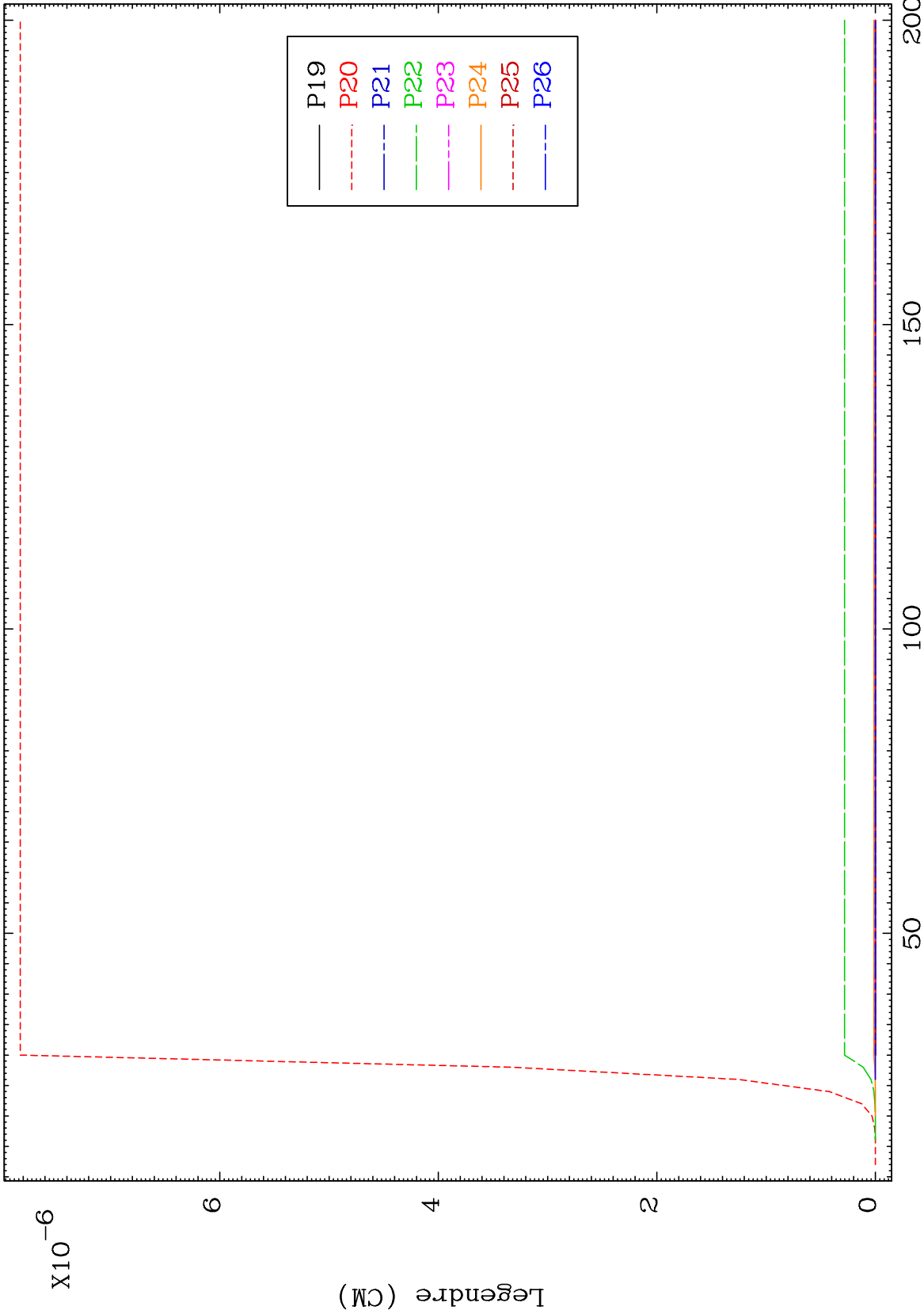
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



41

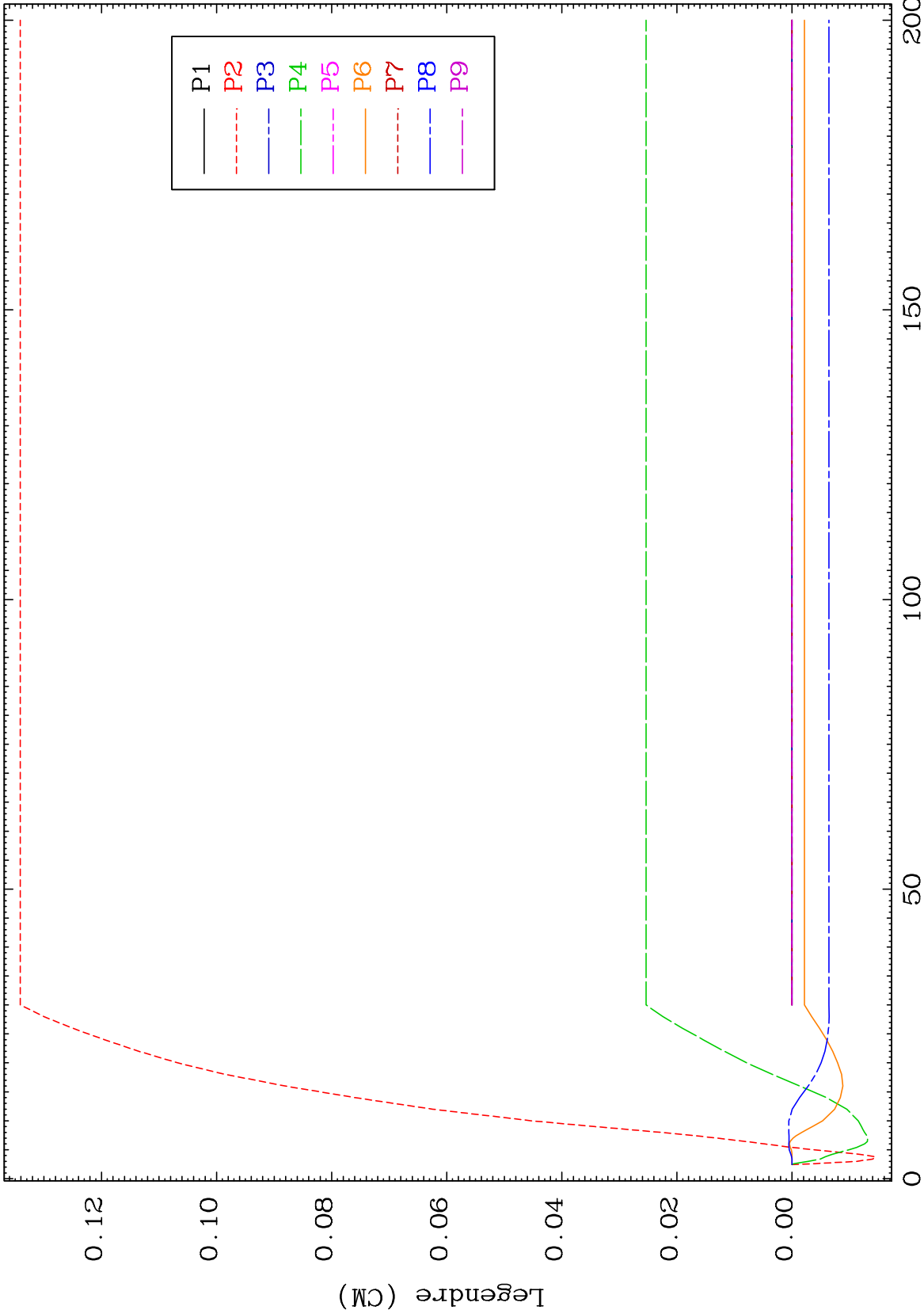
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



42

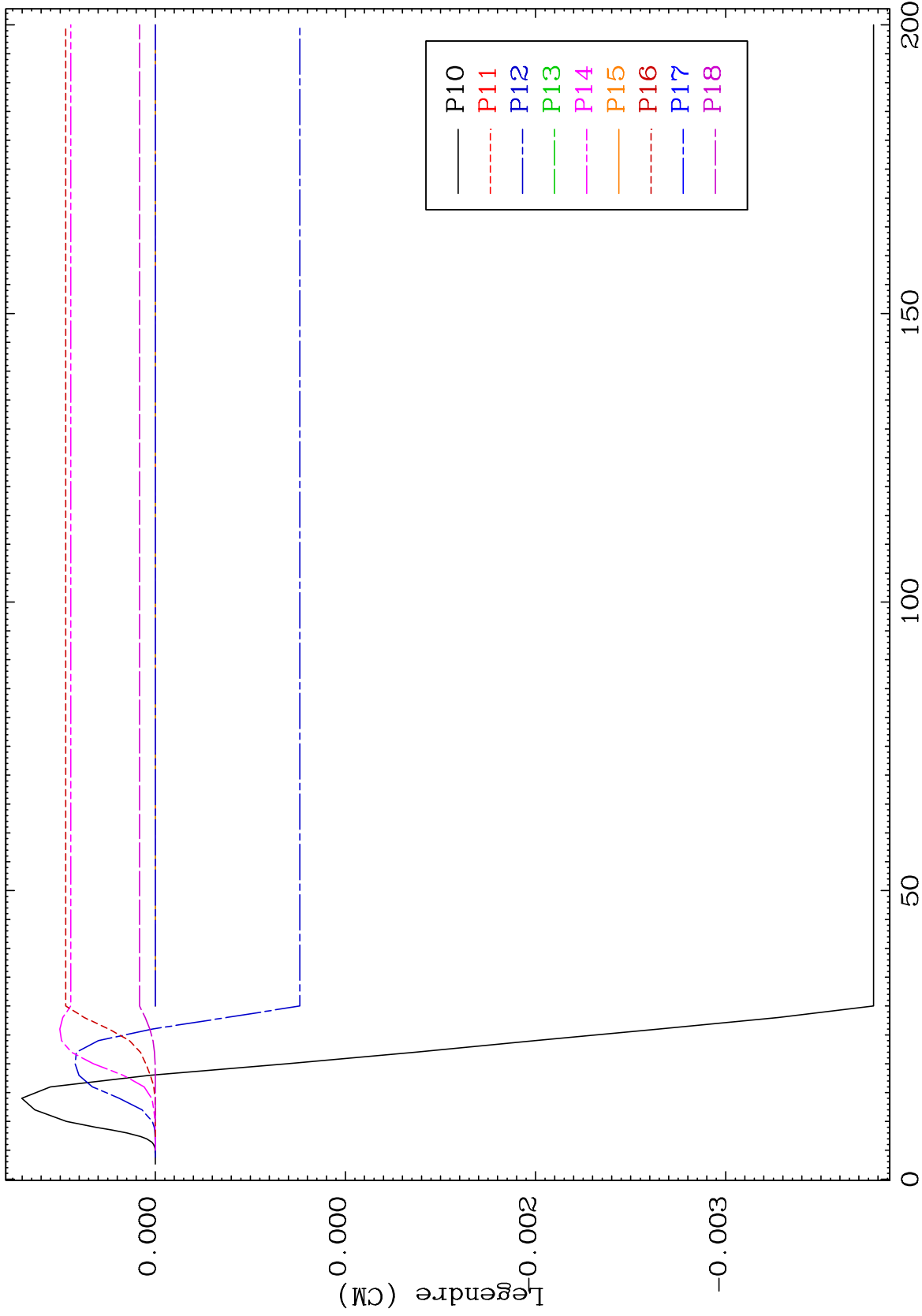
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



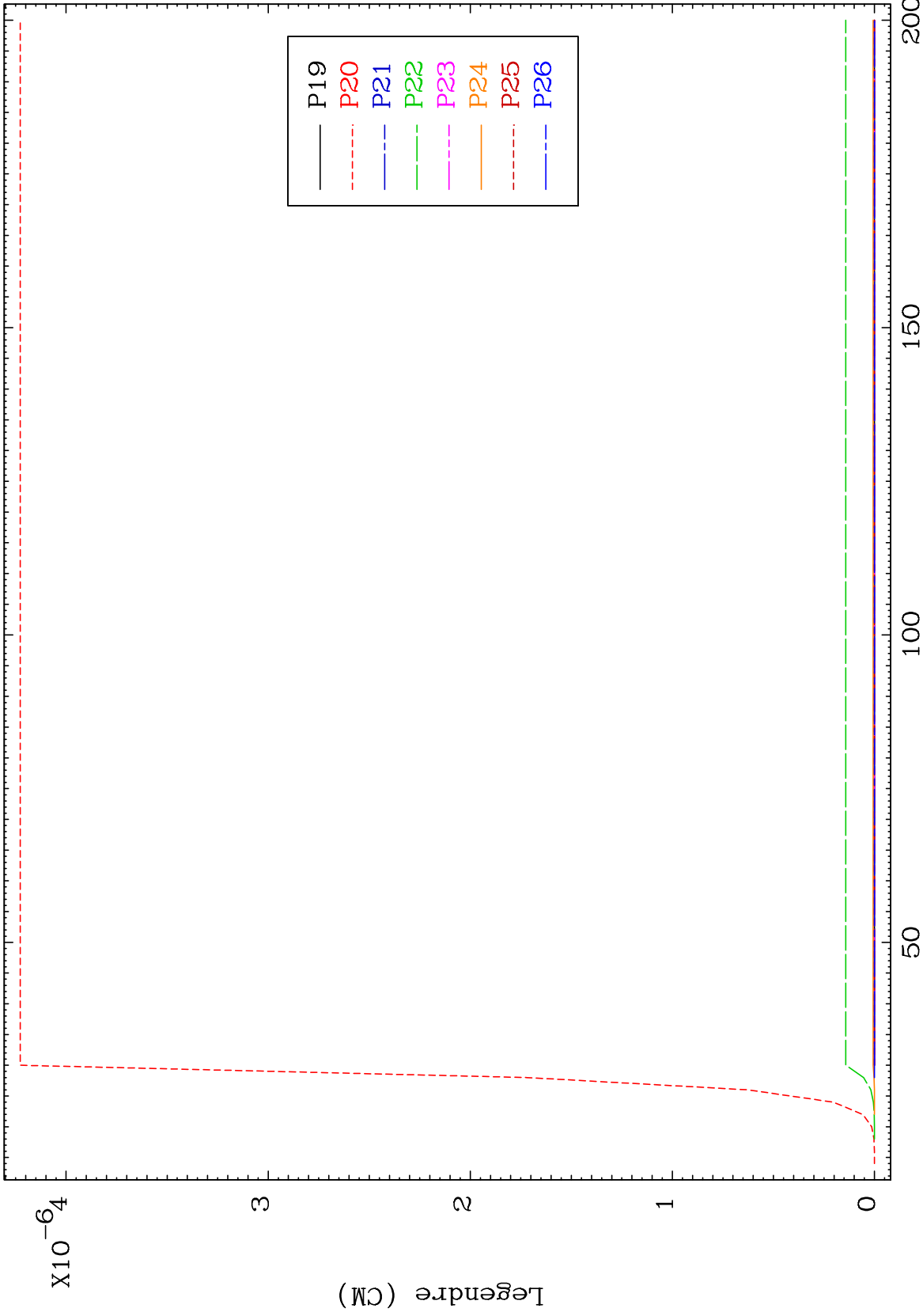
43

58-Ce-140

MAT 5837

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

58-Ce-140



44

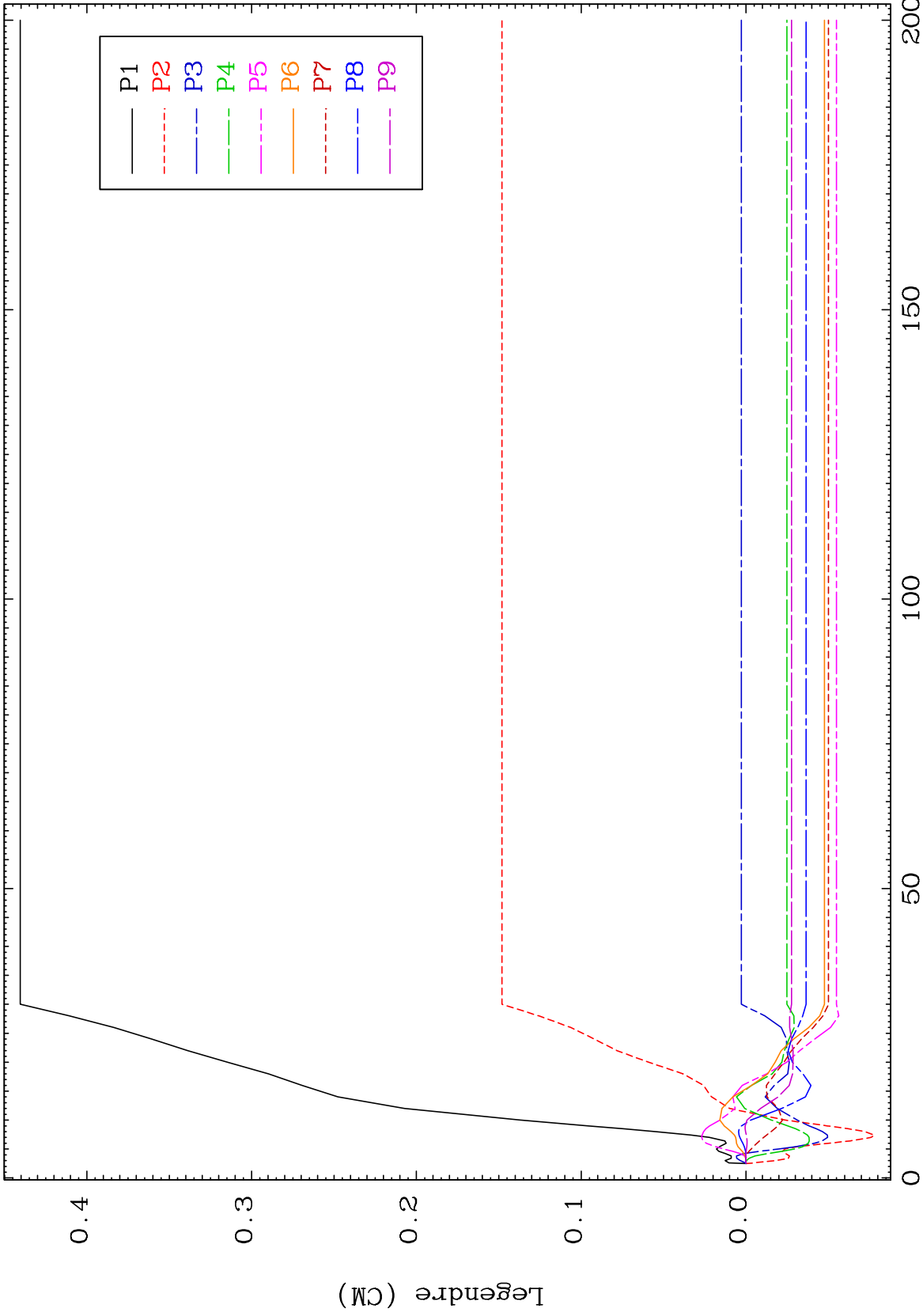
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



45

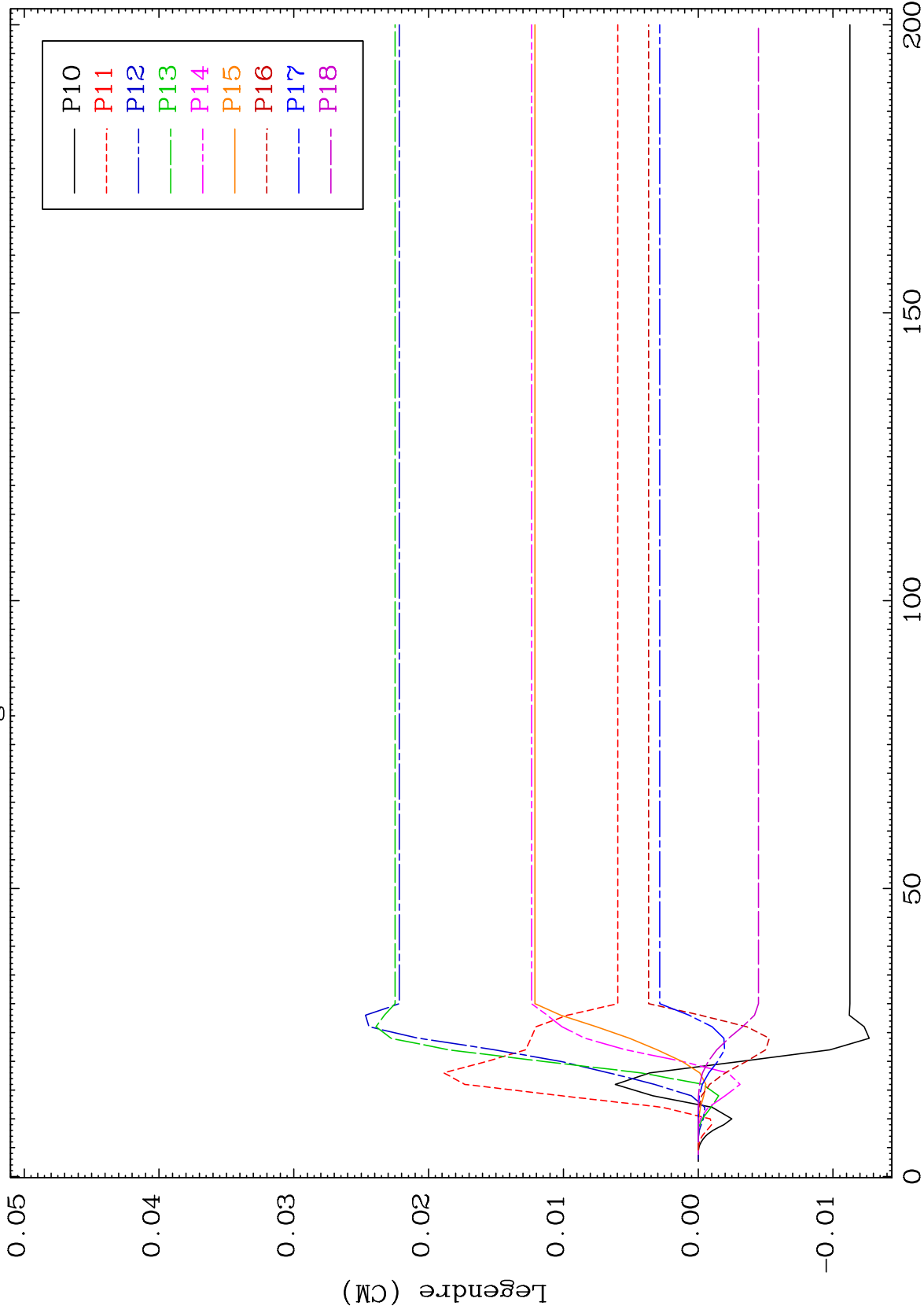
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



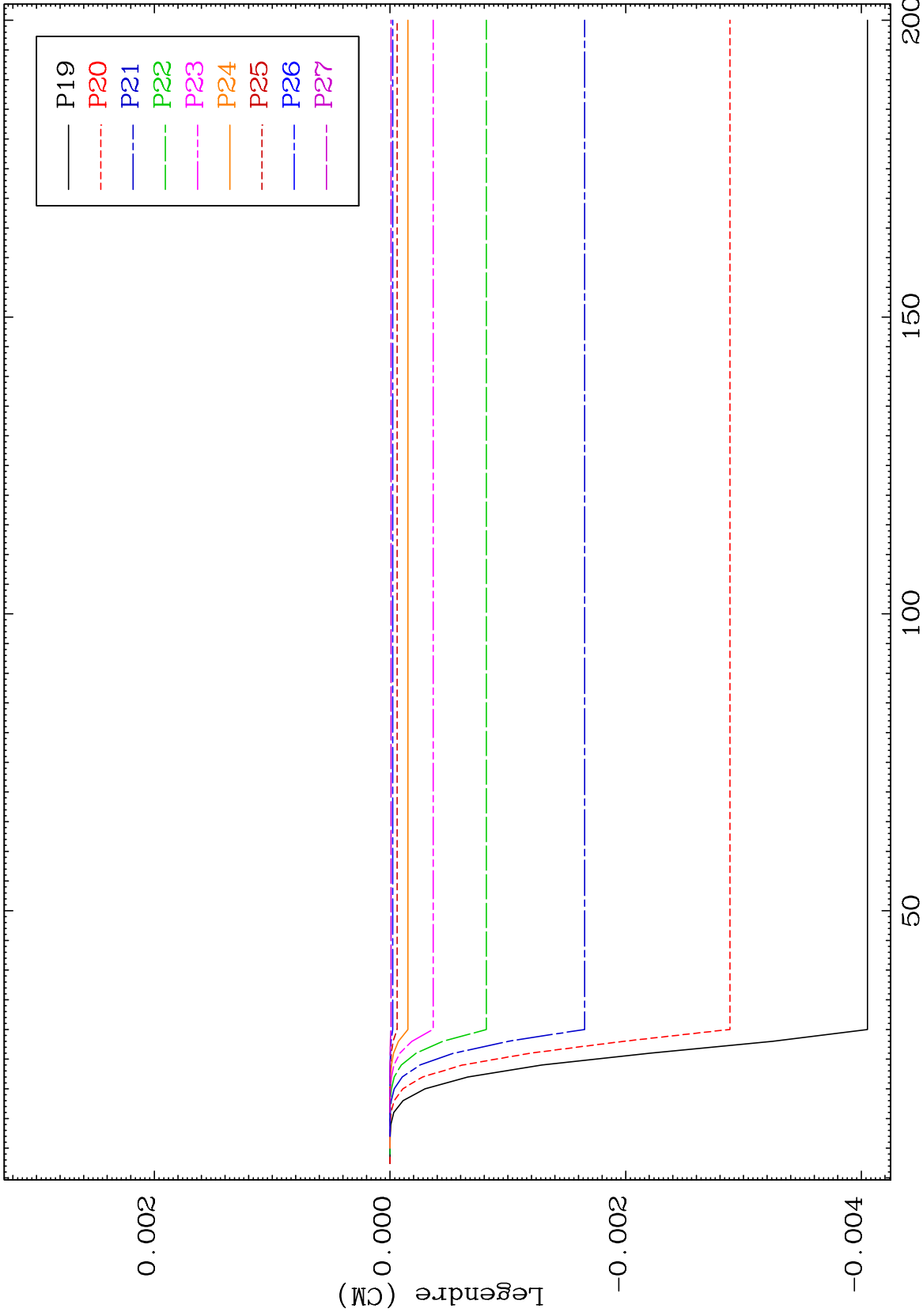
46

58-Ce-140

MAT 5837

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

58-Ce-140

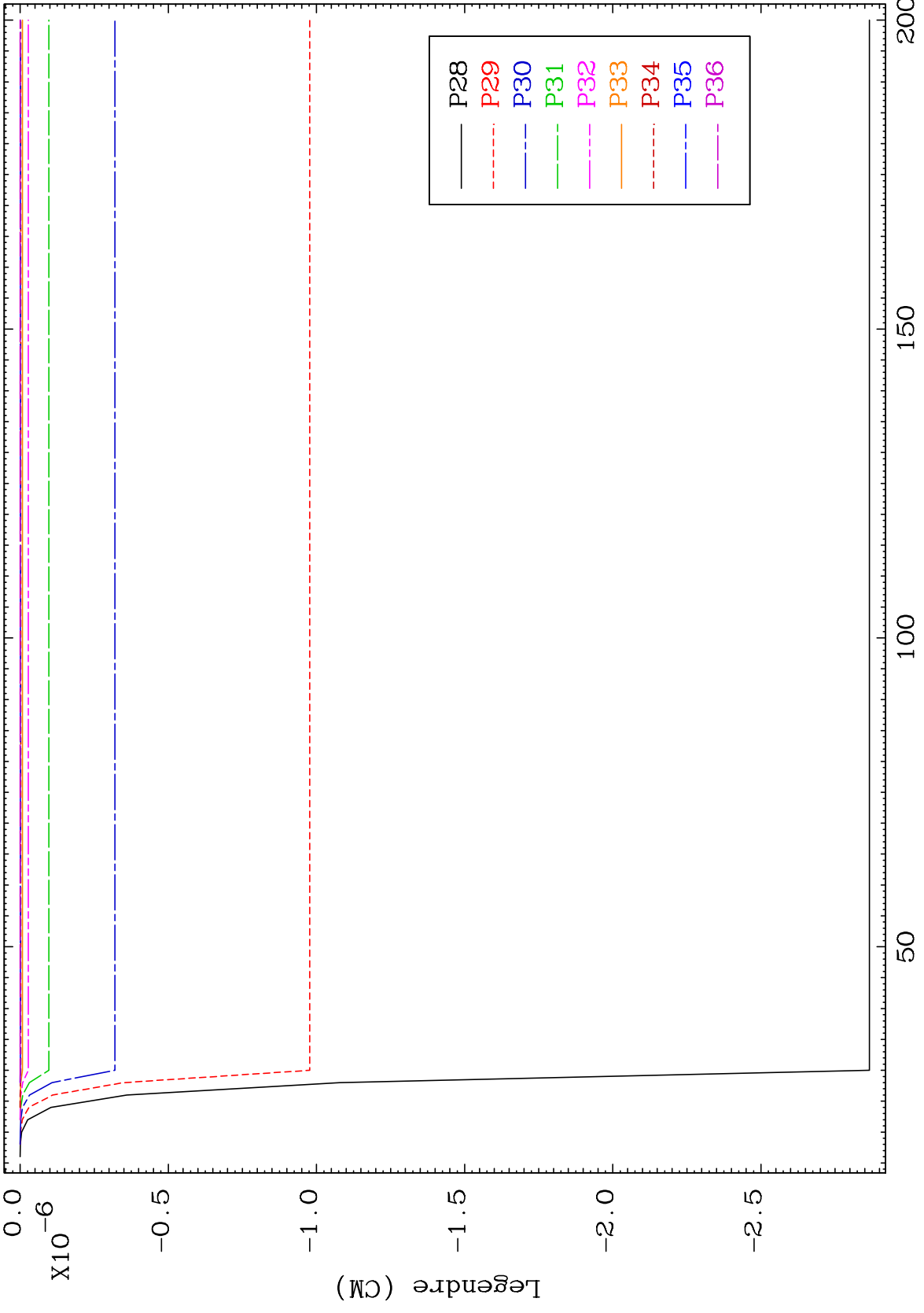


47

Incident Energy (MeV)

58-Ce-140

MAT 5837 MT= 58 (n,n') Level Legendre Coefficients 58-Ce-140

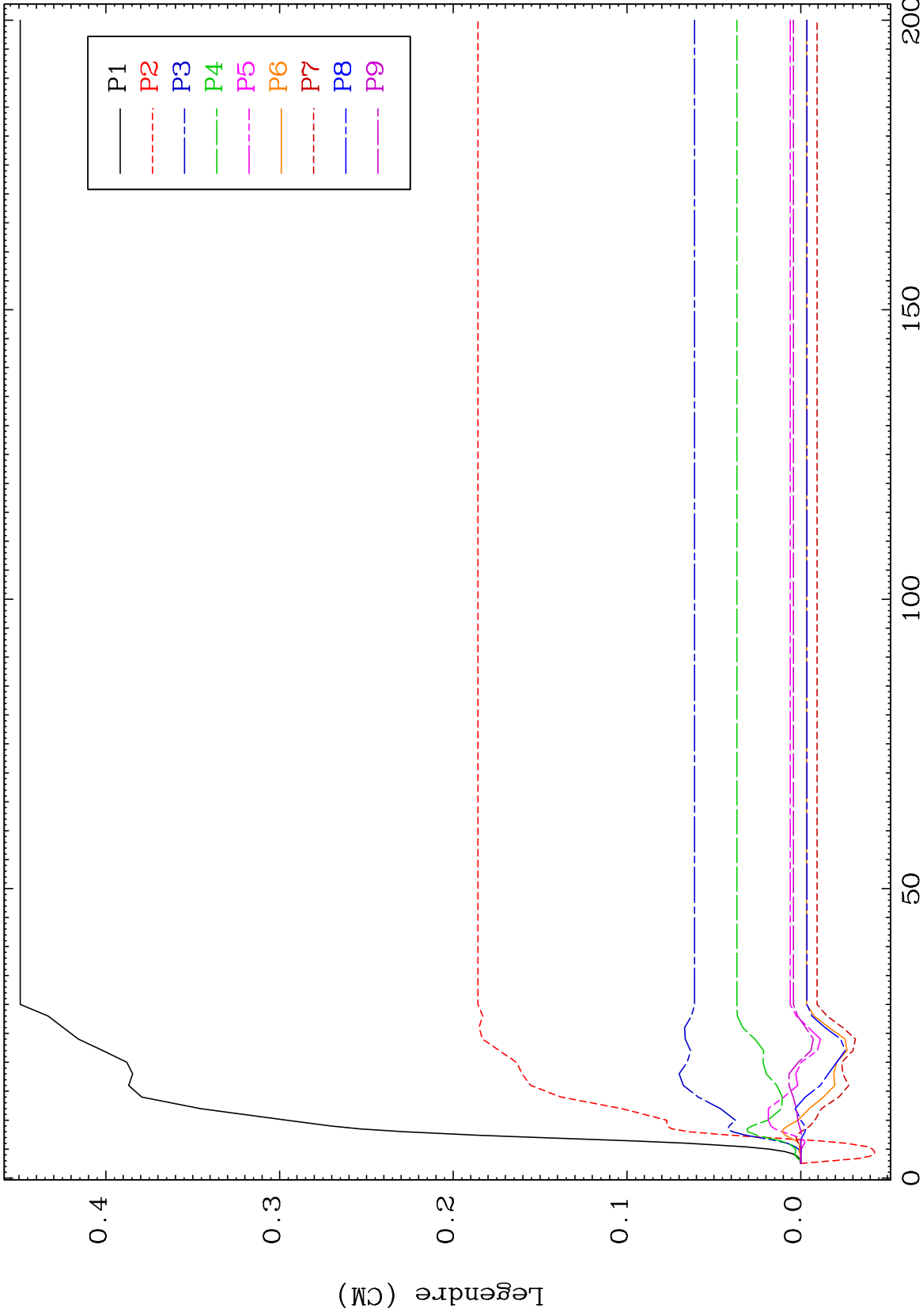


48 58-Ce-140

MAT 5837

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

58-Ce-140



49

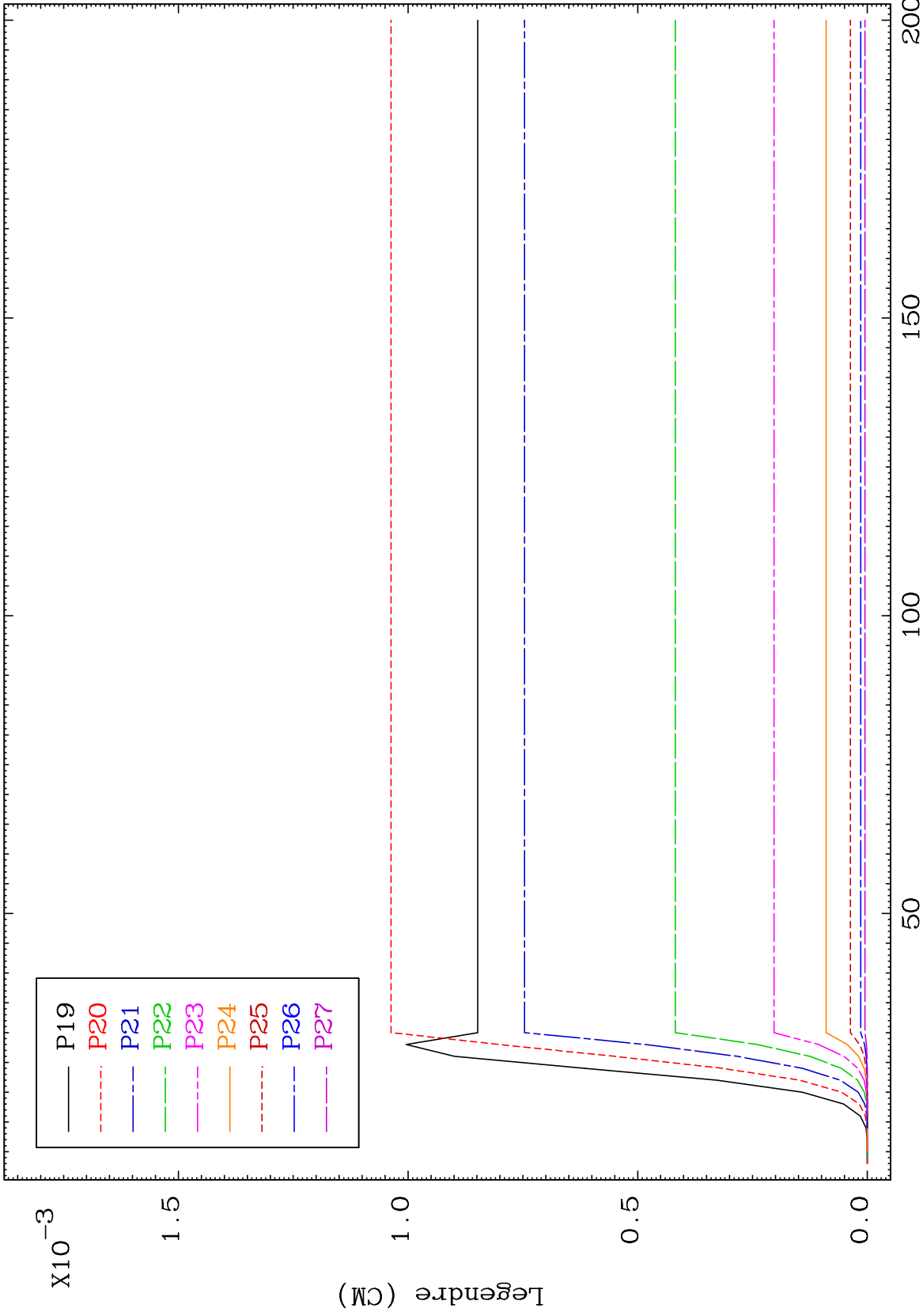
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

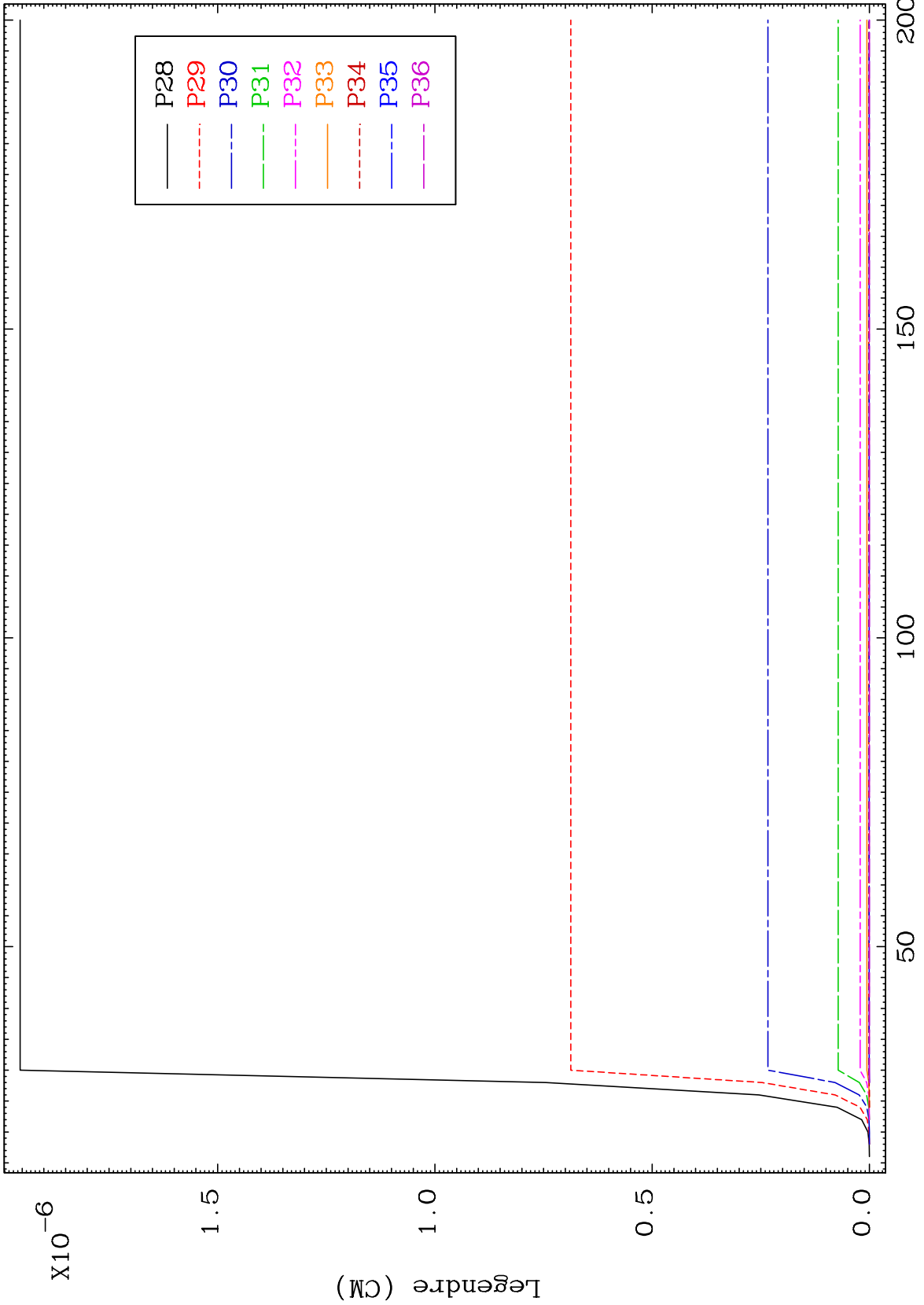
58-Ce-140



MAT 5837

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

58-Ce-140



52

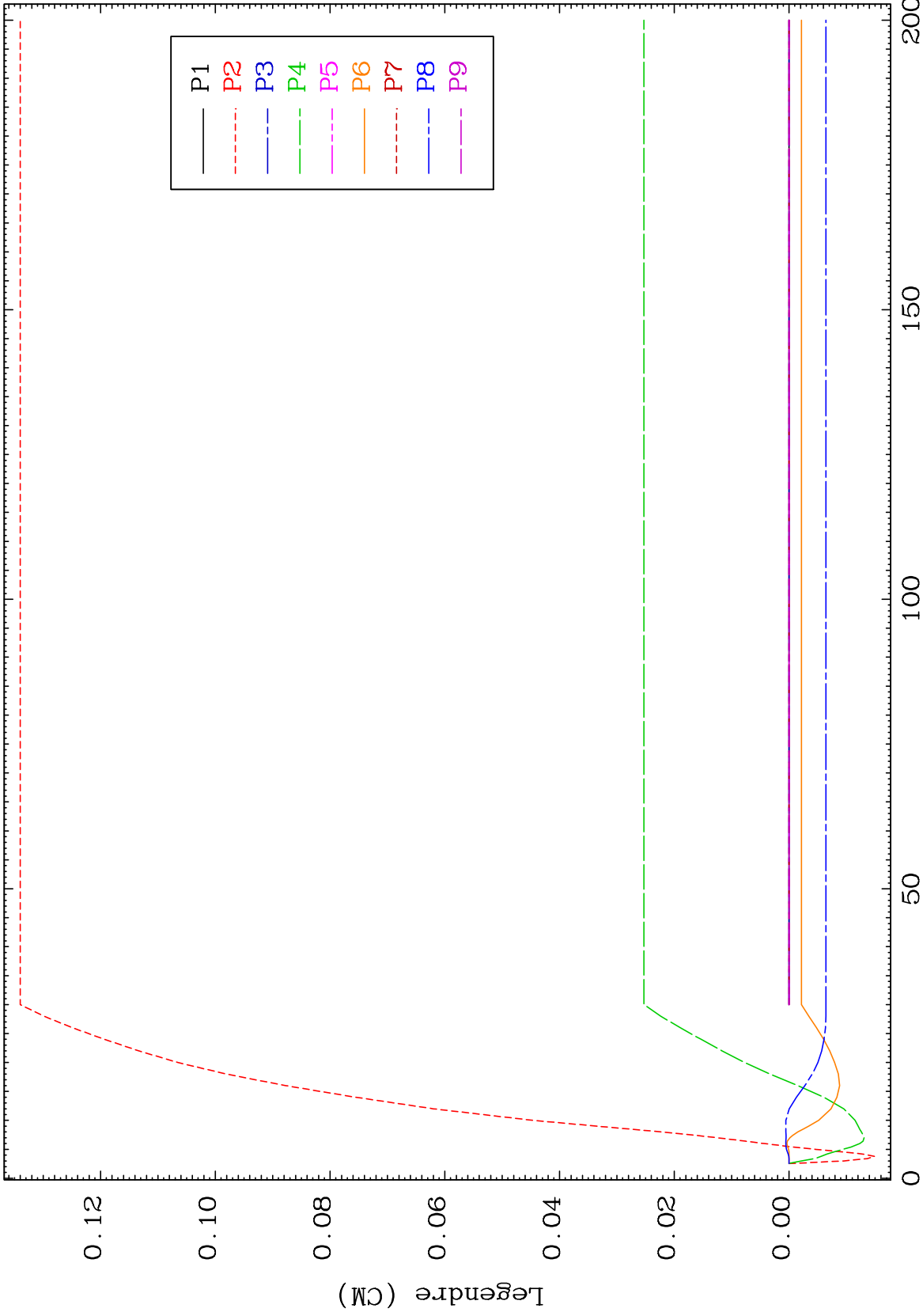
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



53

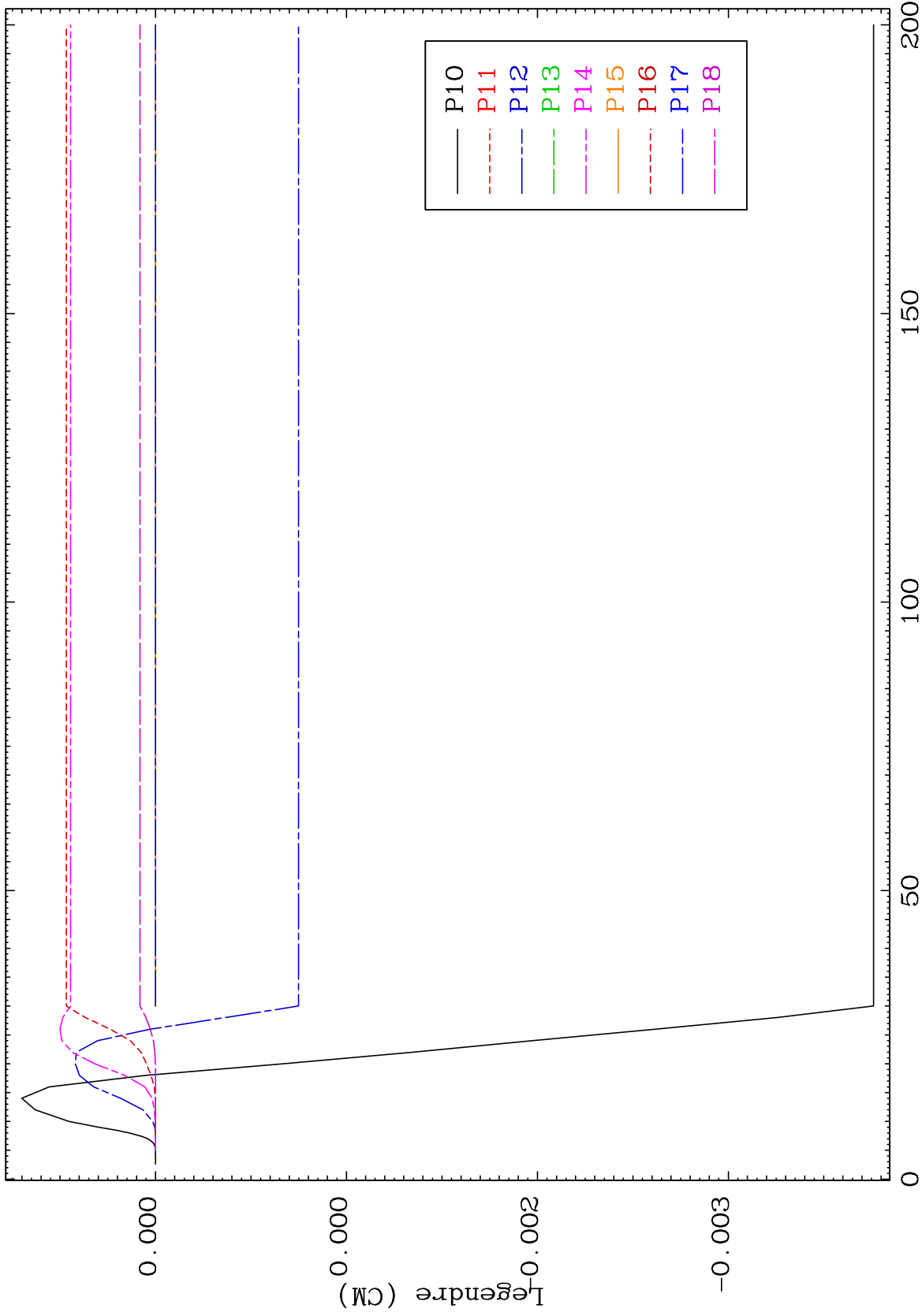
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



54

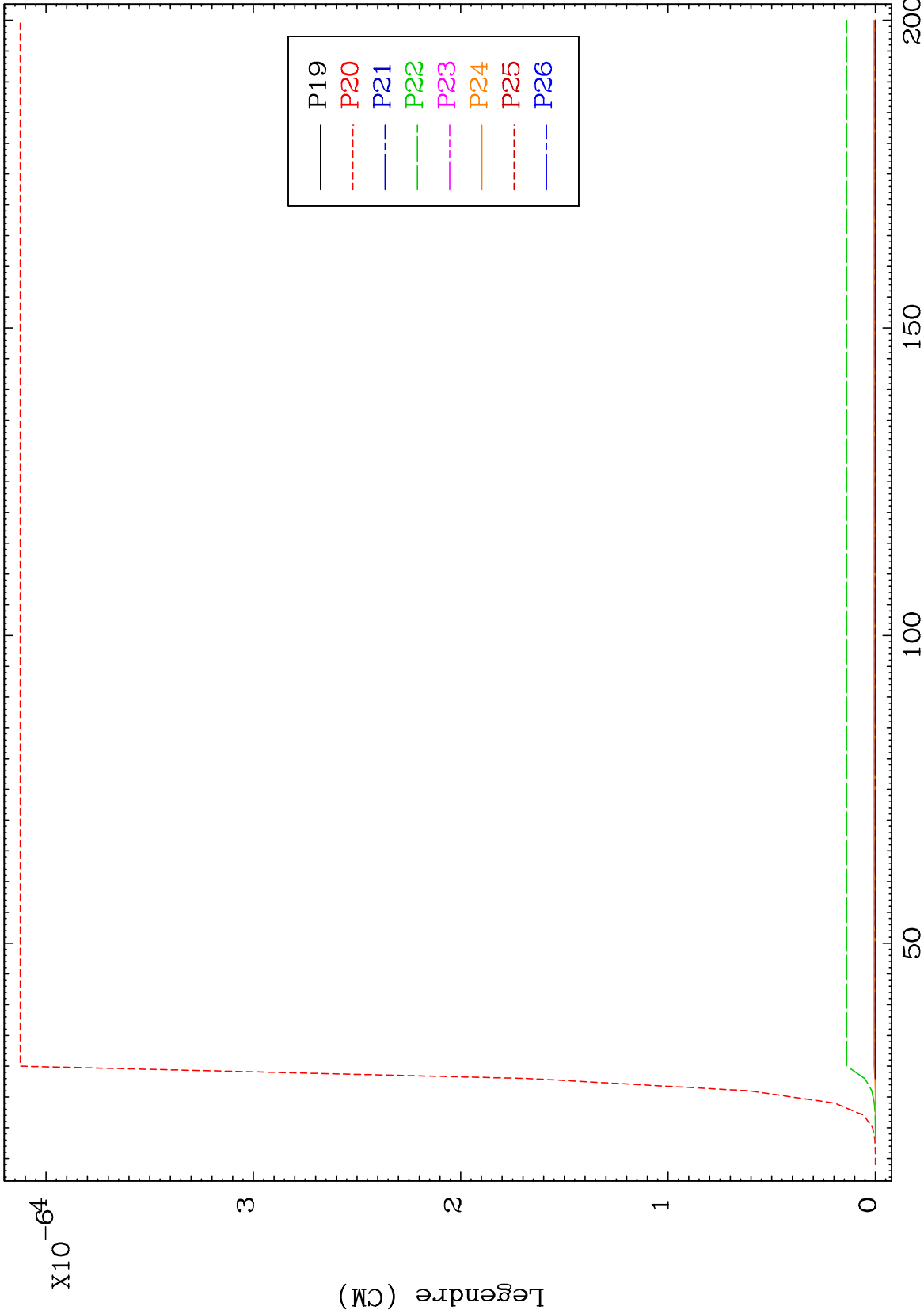
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



55

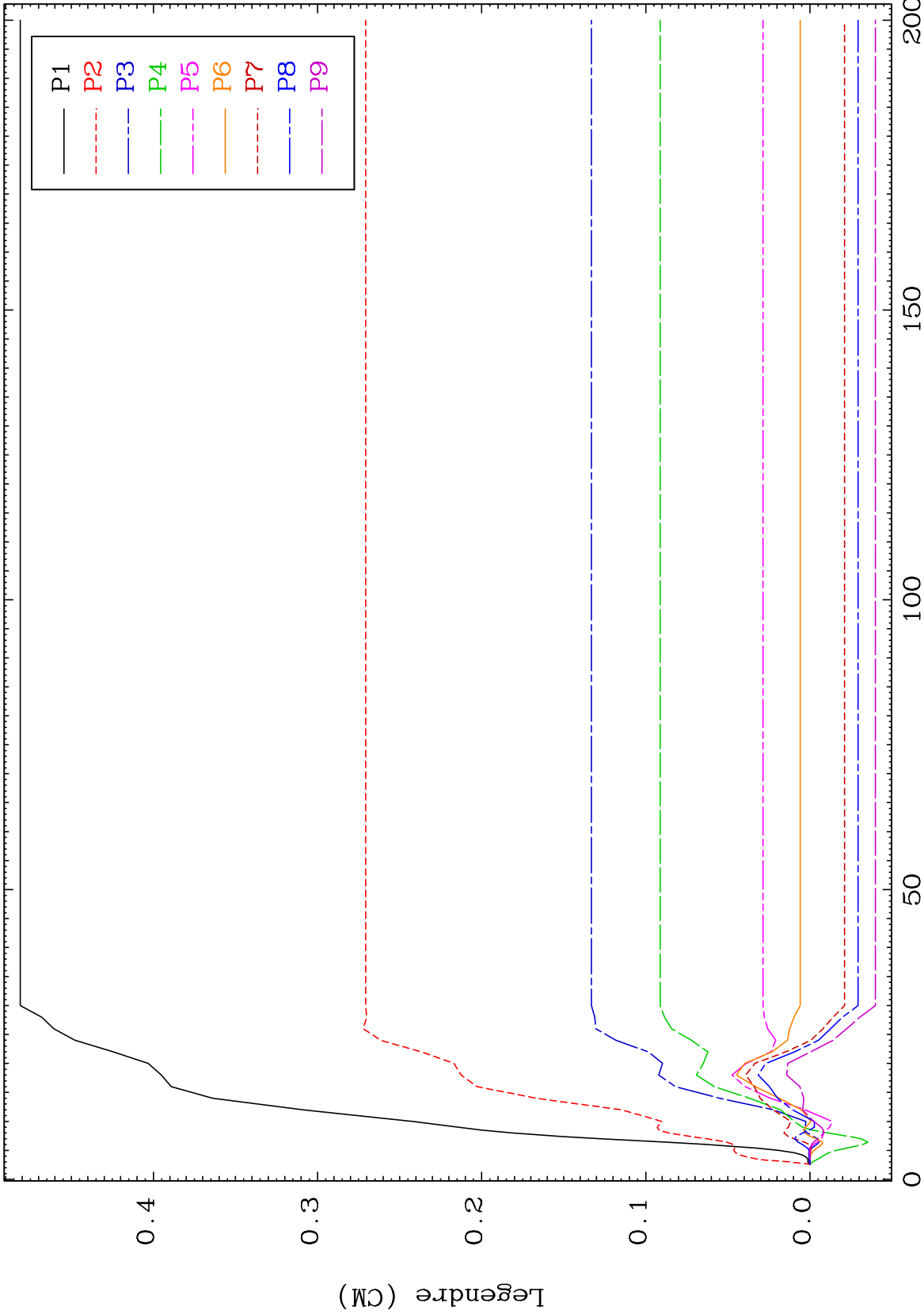
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



56

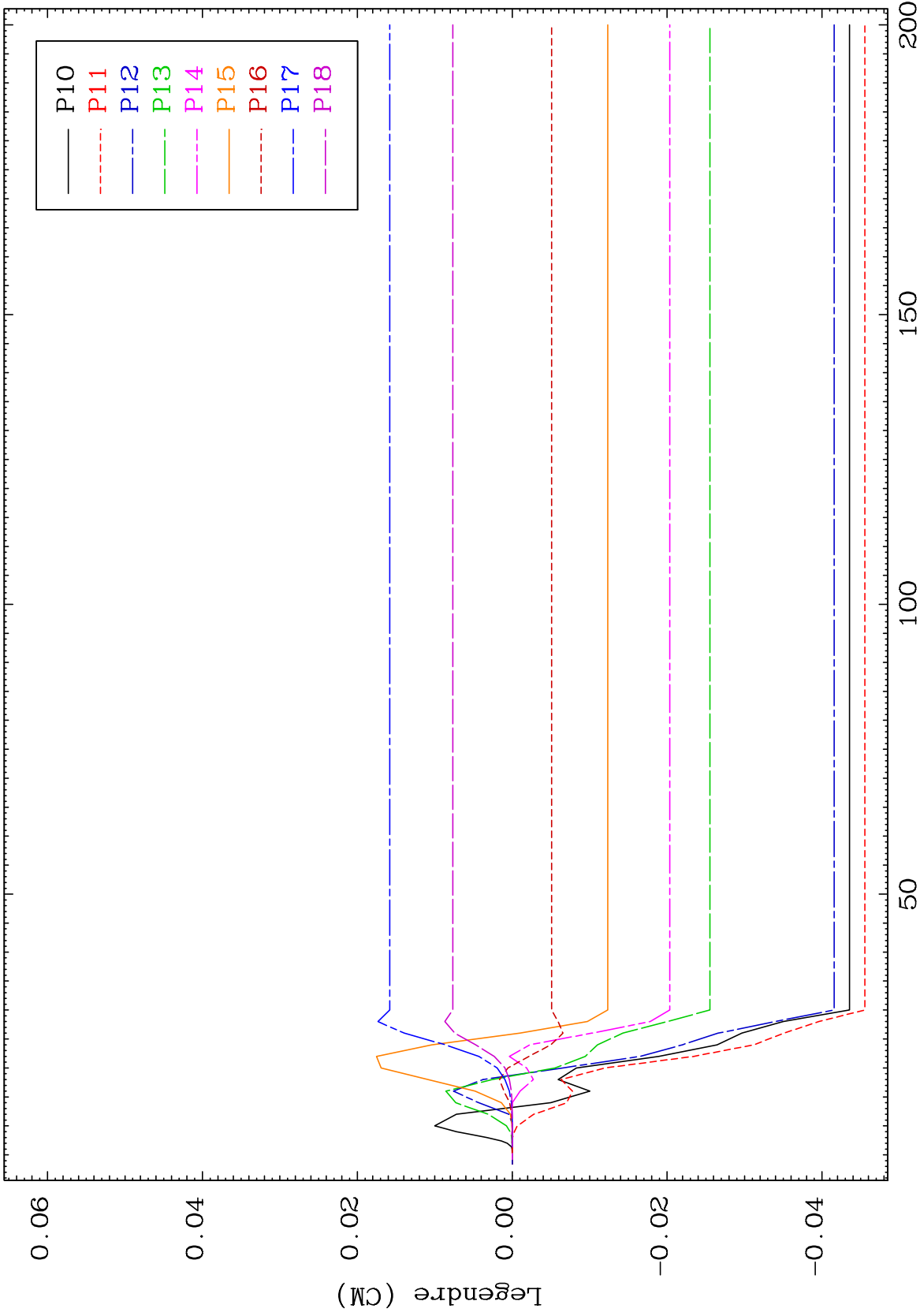
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



57

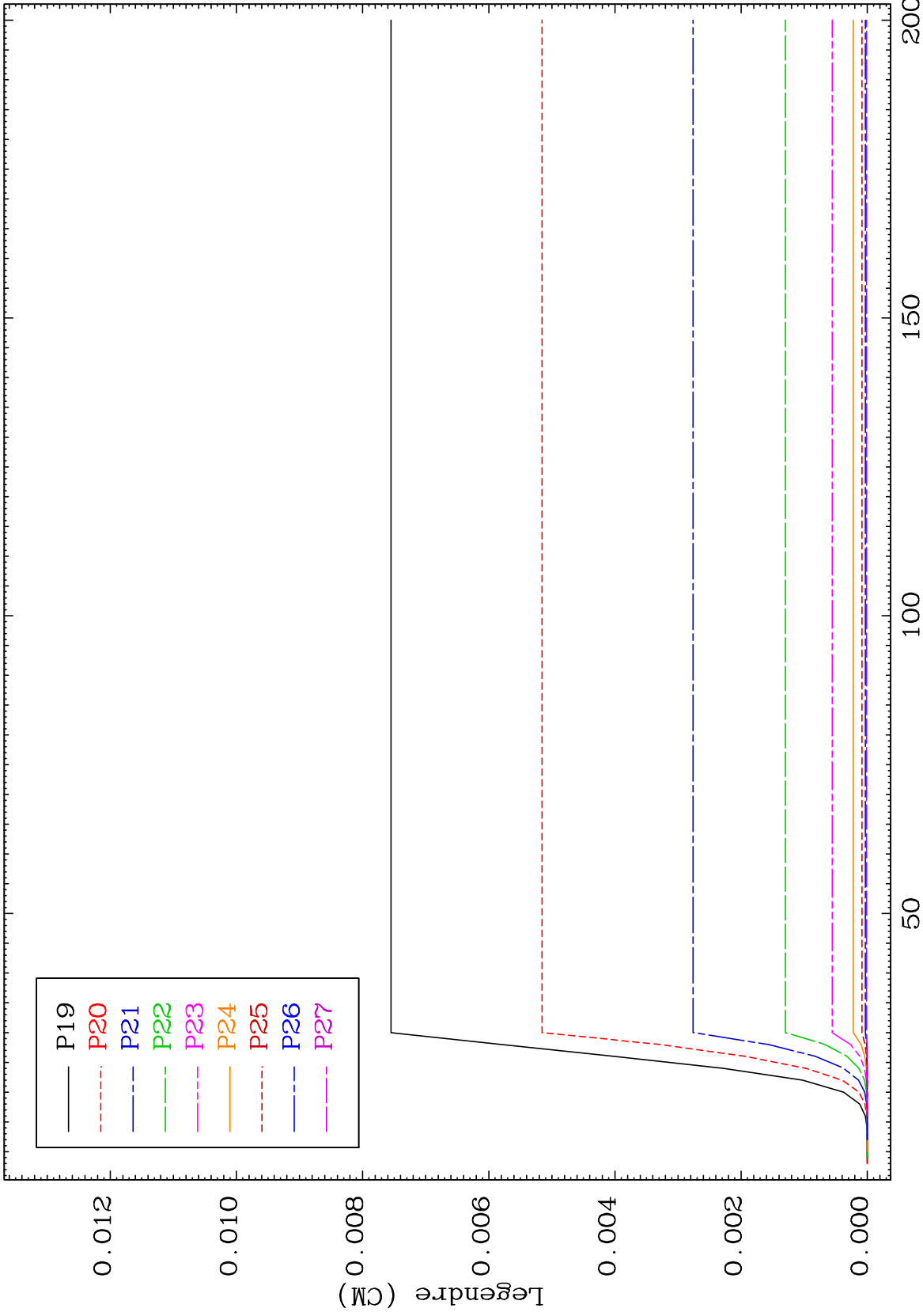
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



58

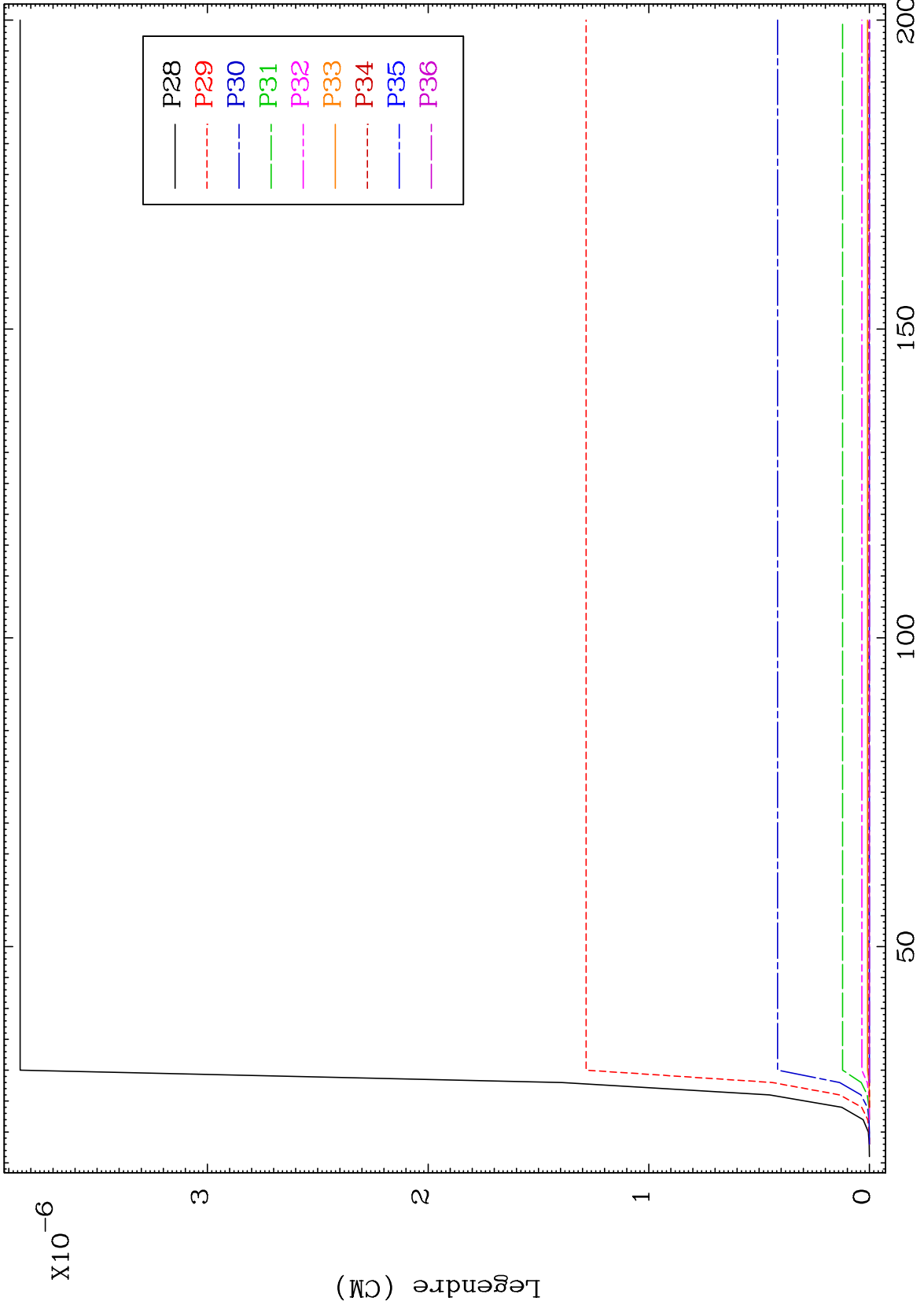
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140

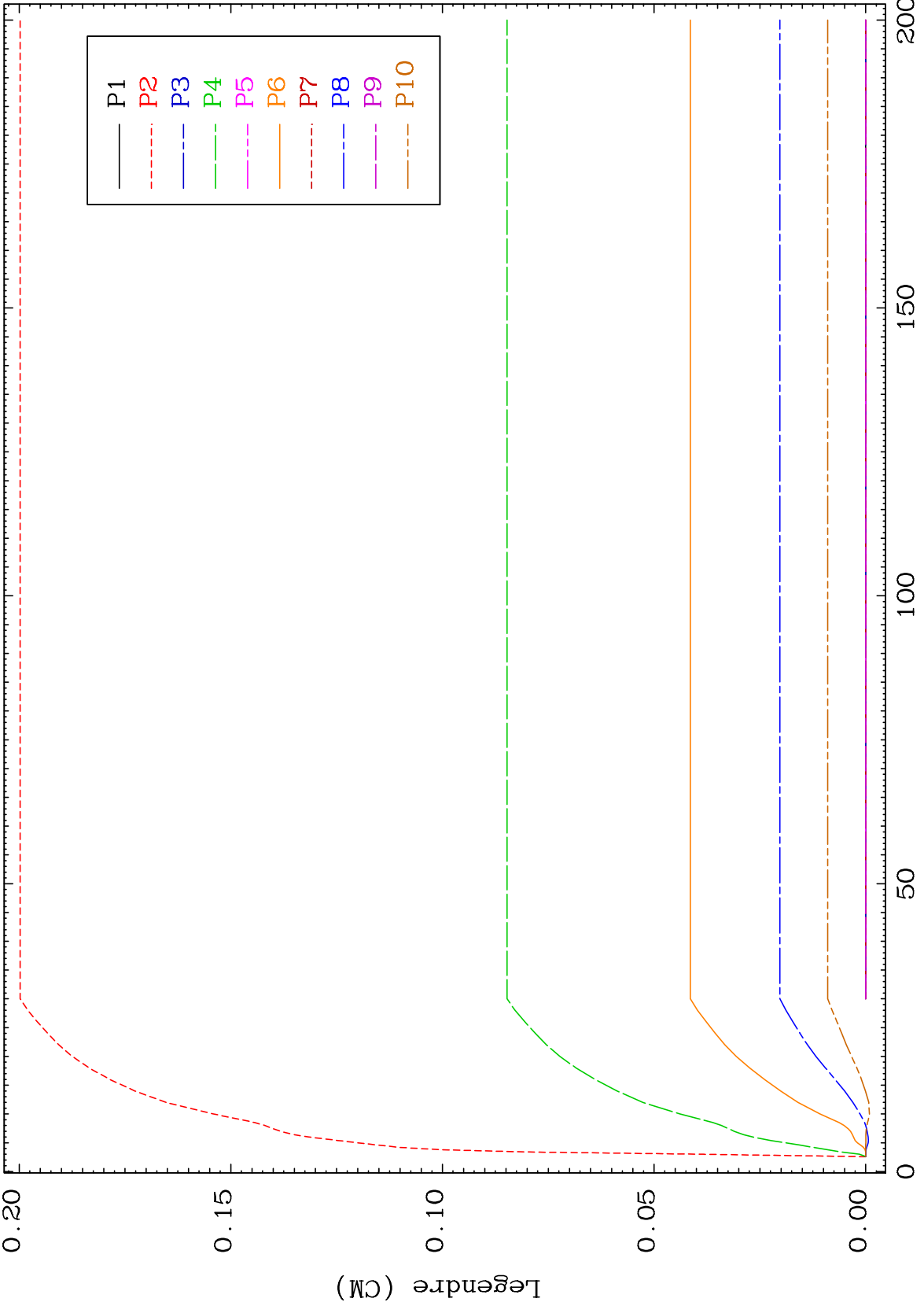


59

Incident Energy (MeV)

58-Ce-140

MAT 5837 MT= 62 (n,n') Level Legendre Coefficients 58-Ce-140

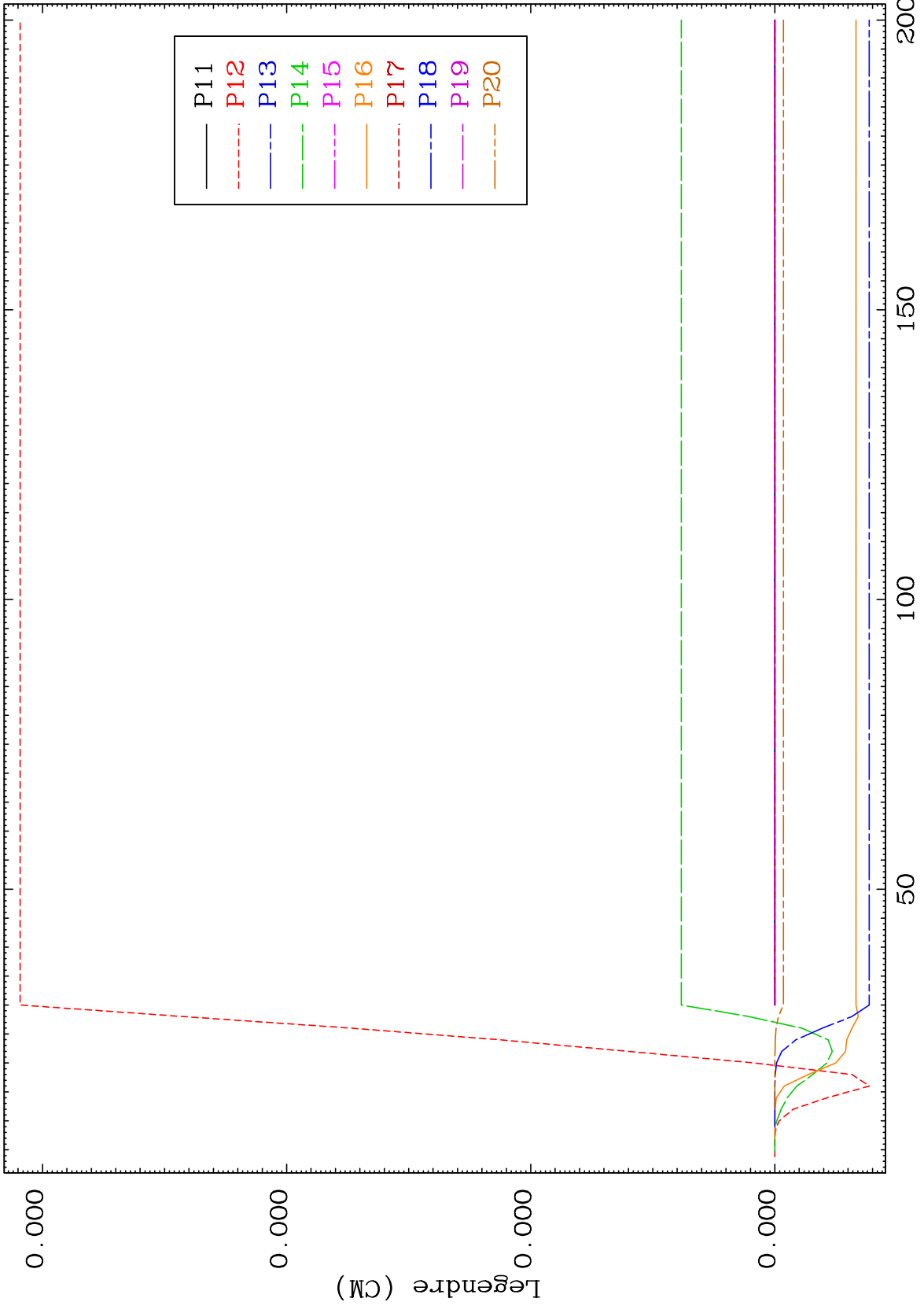


58-Ce-140

MAT 5837

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

58-Ce-140



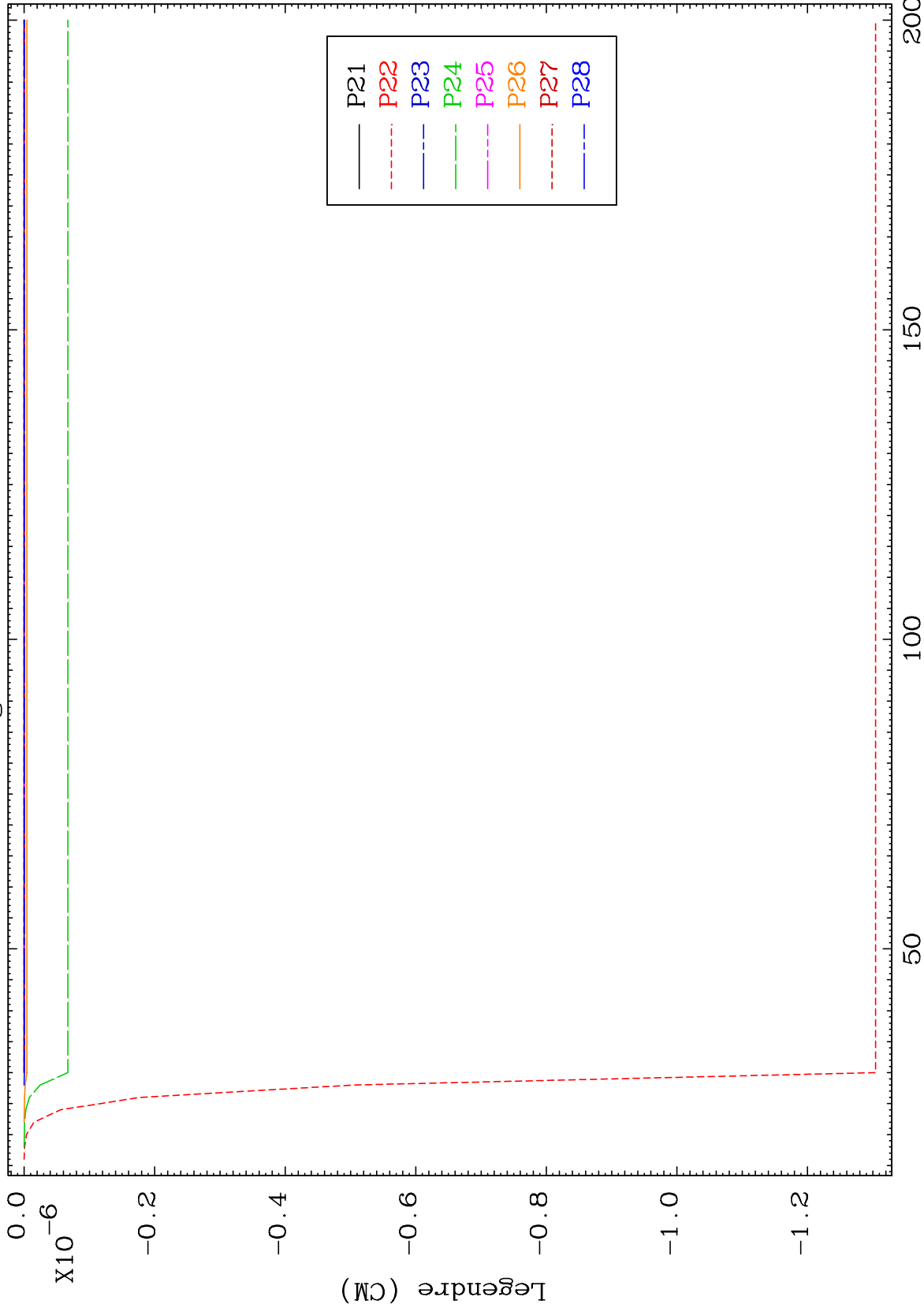
61

58-Ce-140

MAT 5837

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

58-Ce-140



62

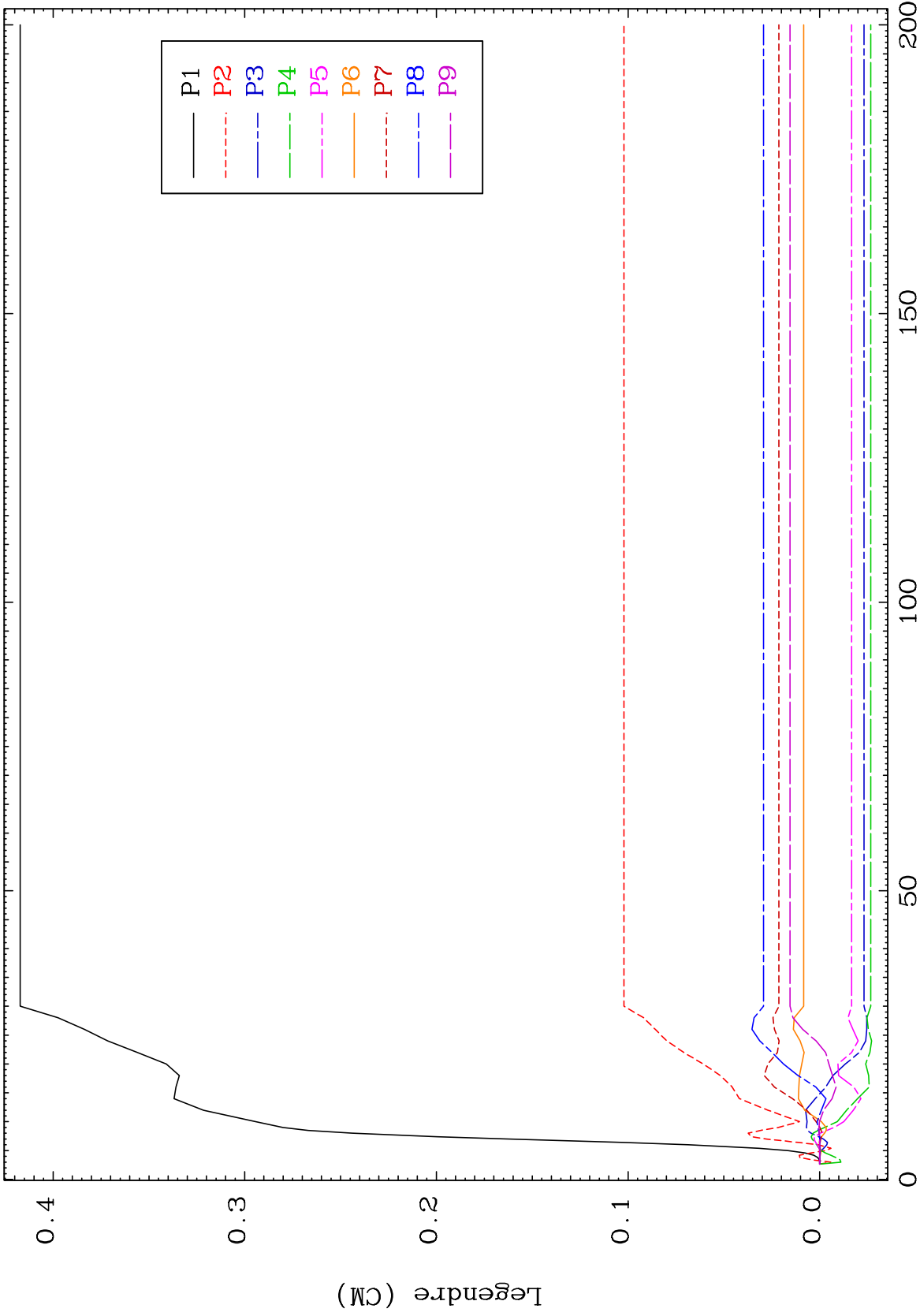
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



63

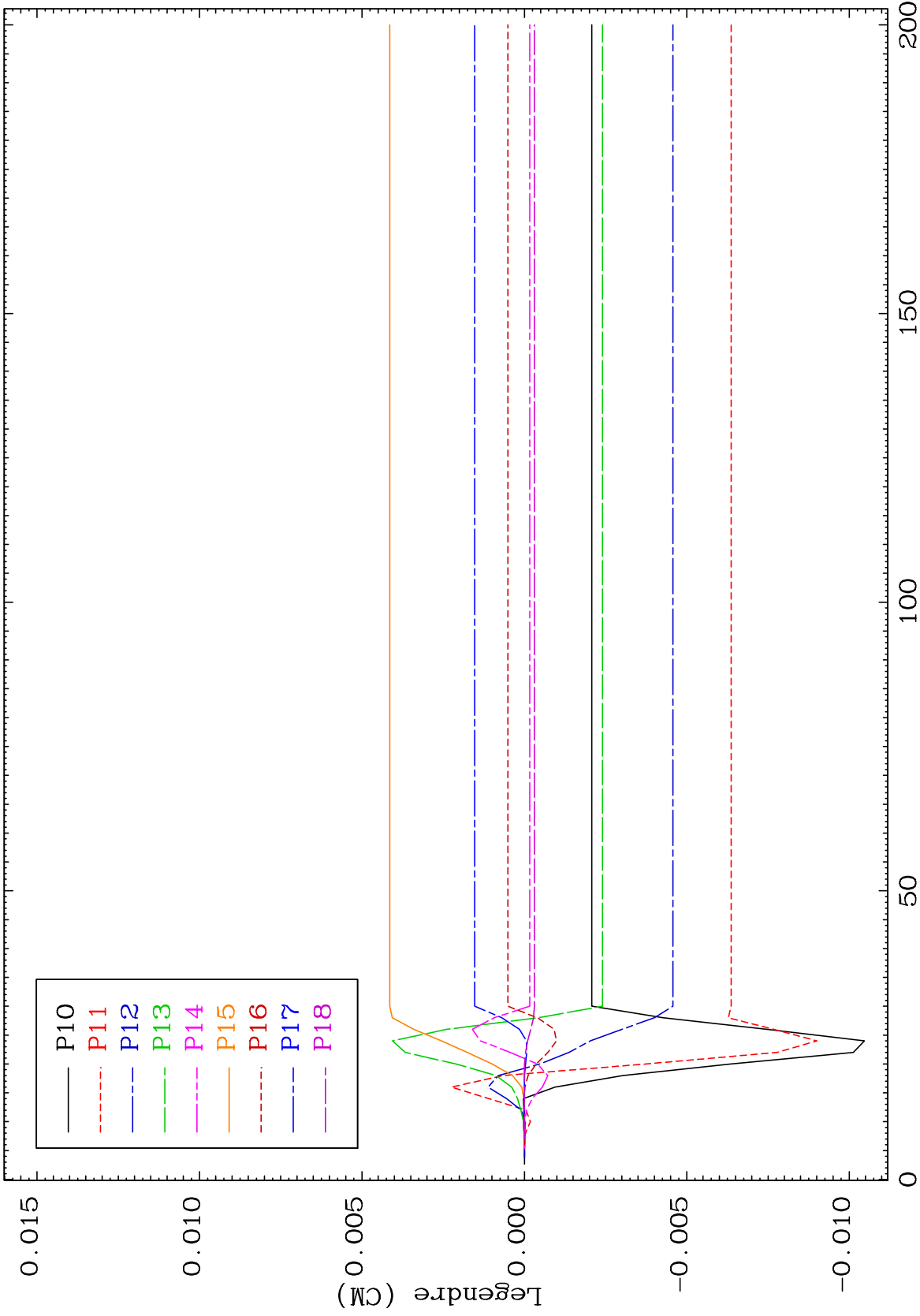
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



64

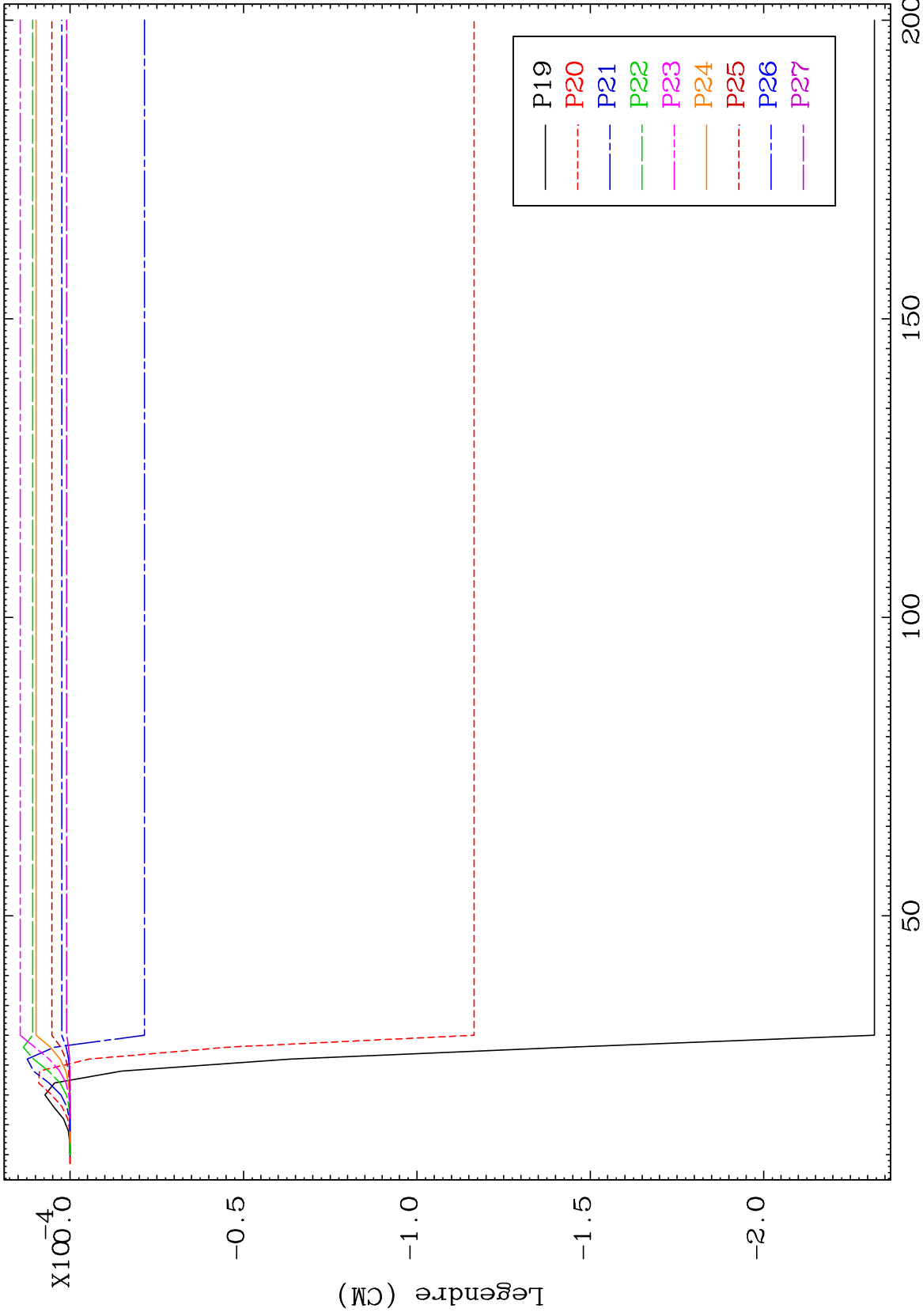
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



65

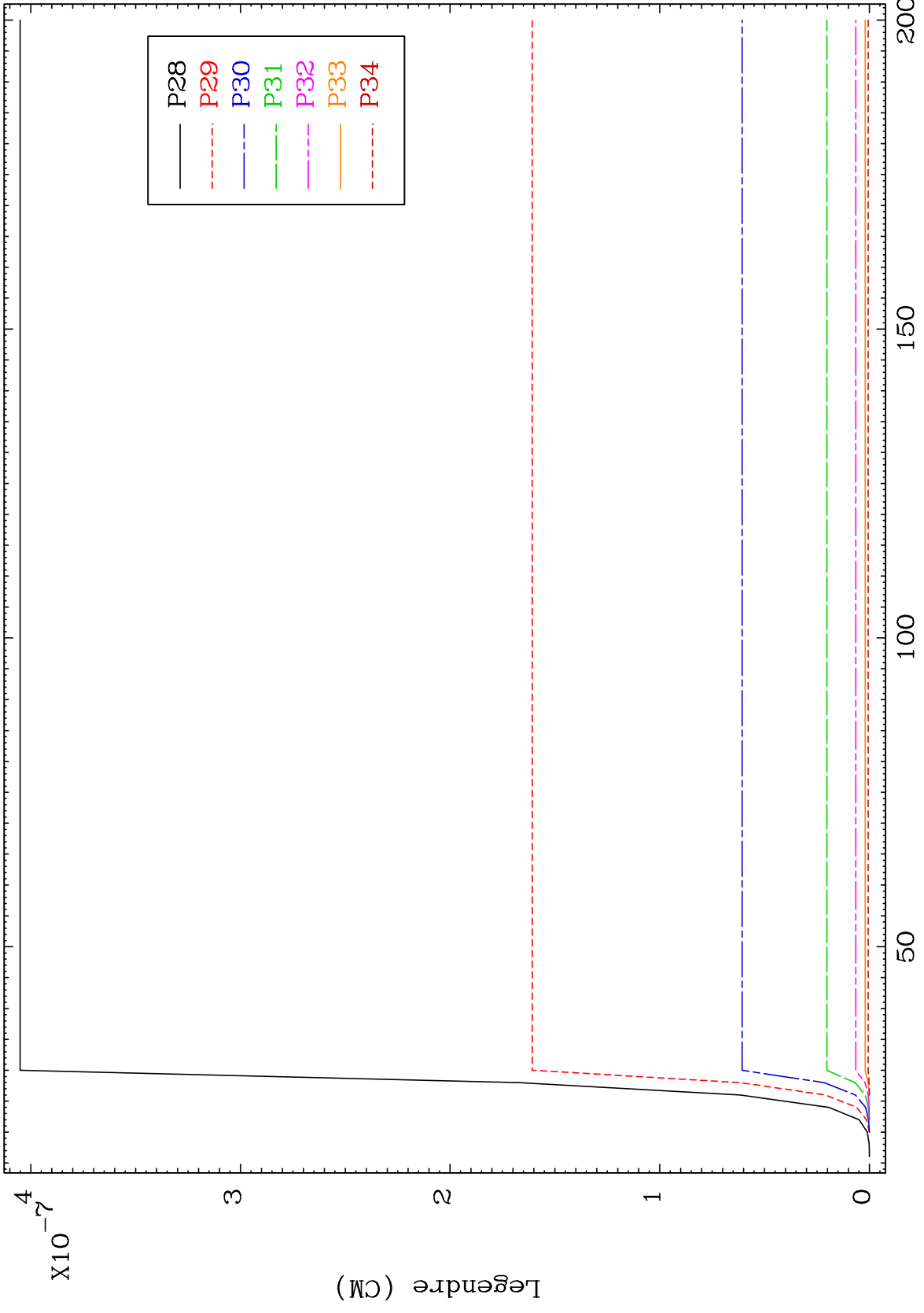
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

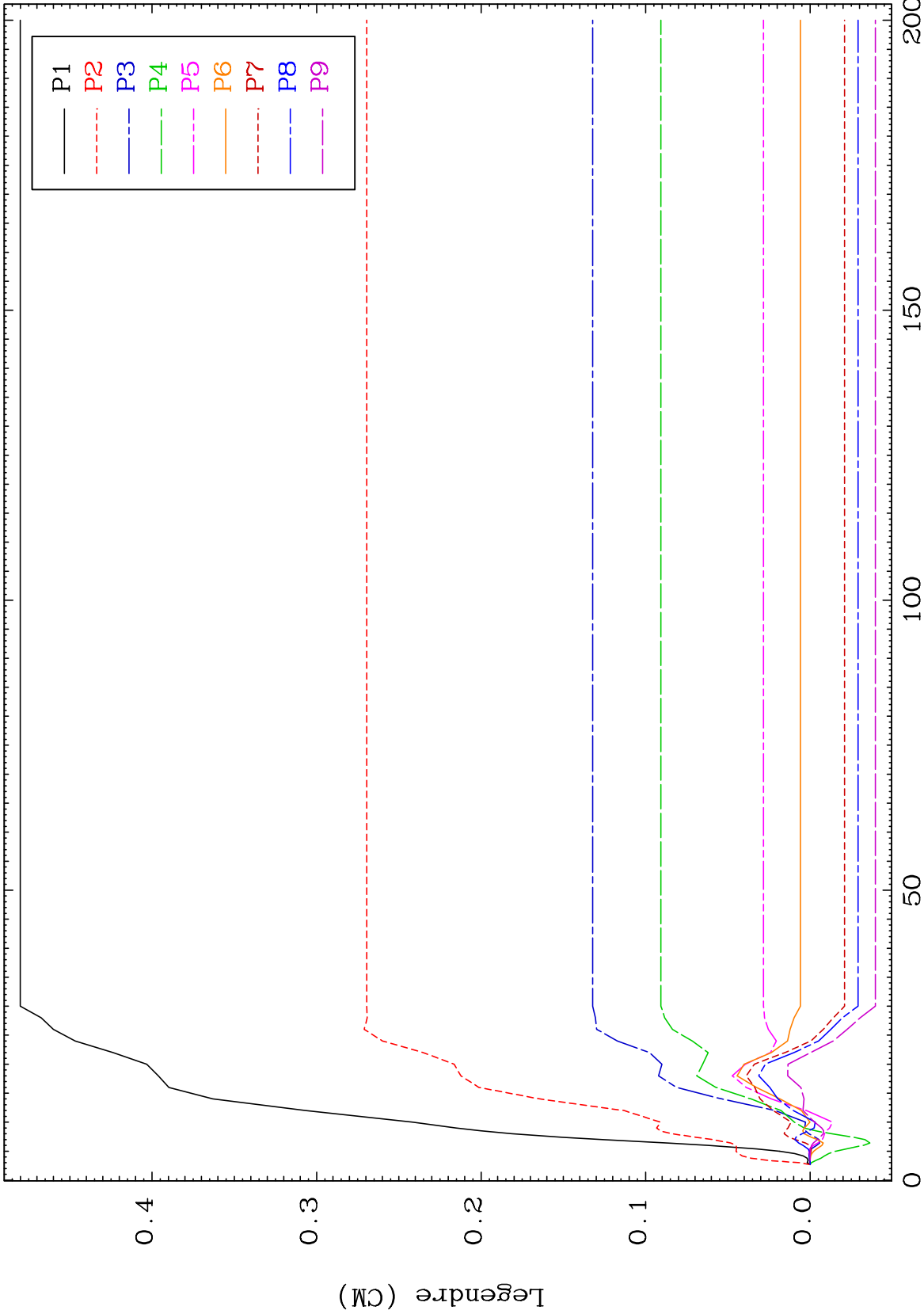
58-Ce-140



MAT 5837

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

58-Ce-140



67

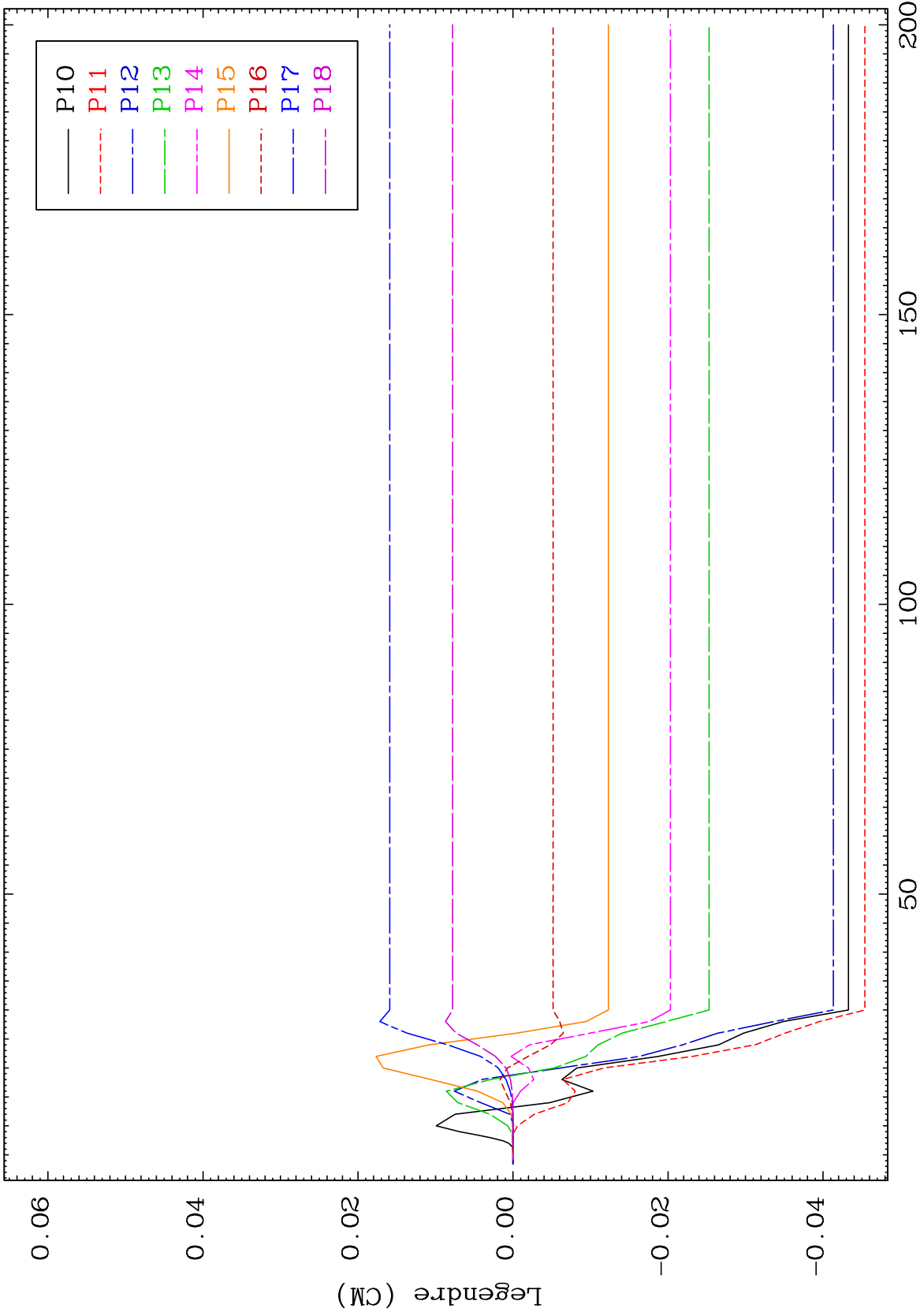
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



68

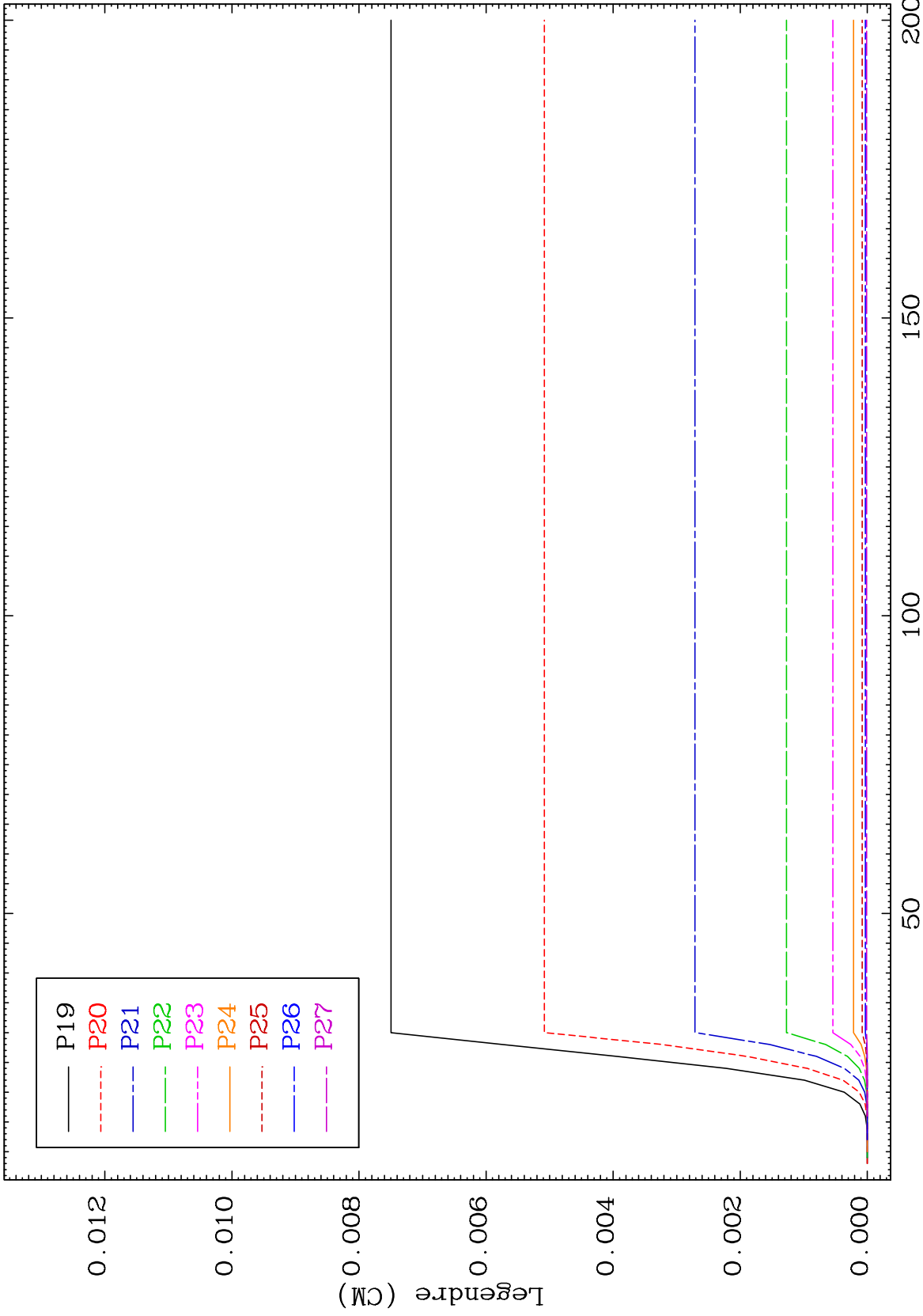
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



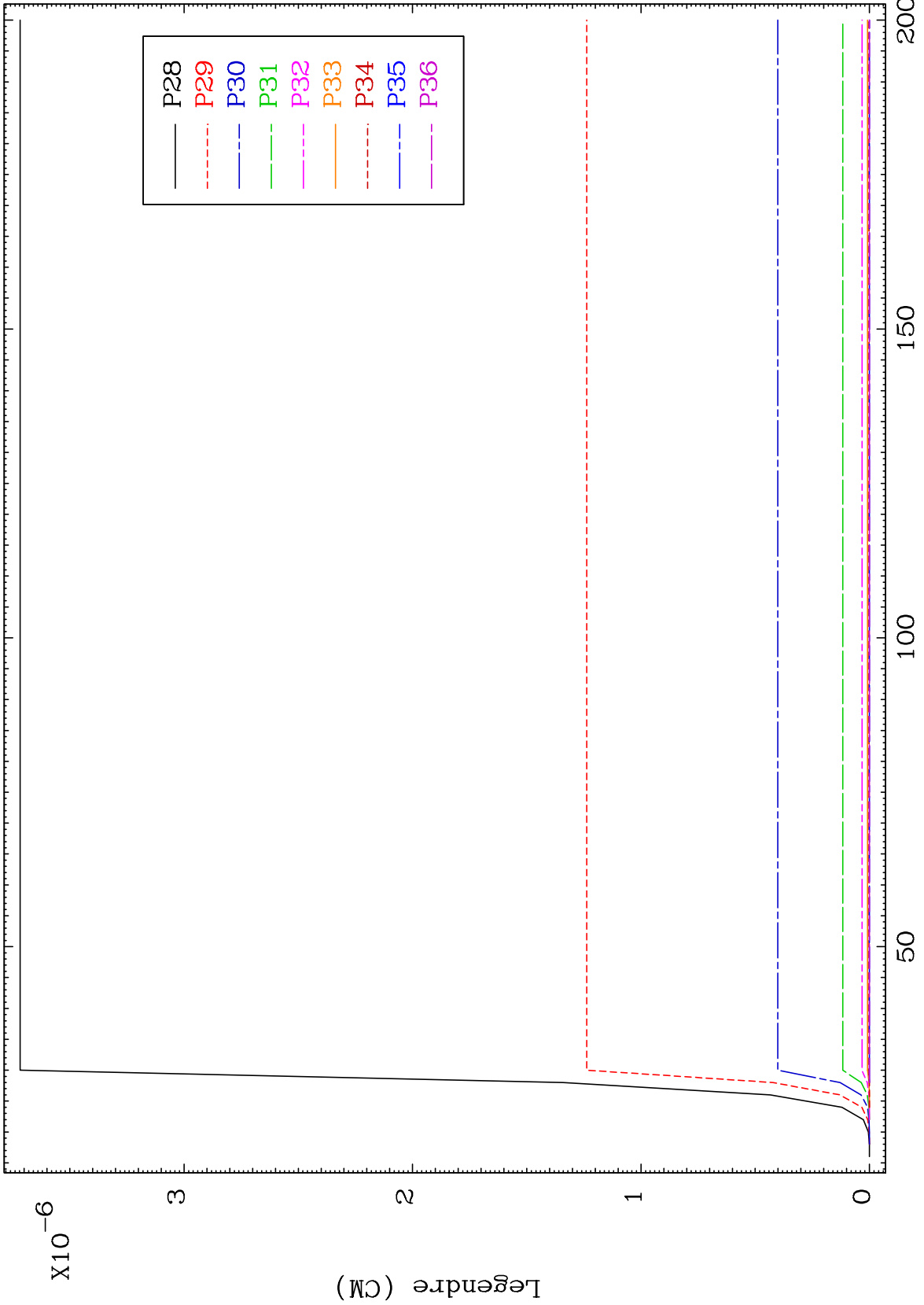
69

58-Ce-140

MAT 5837

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

58-Ce-140



70

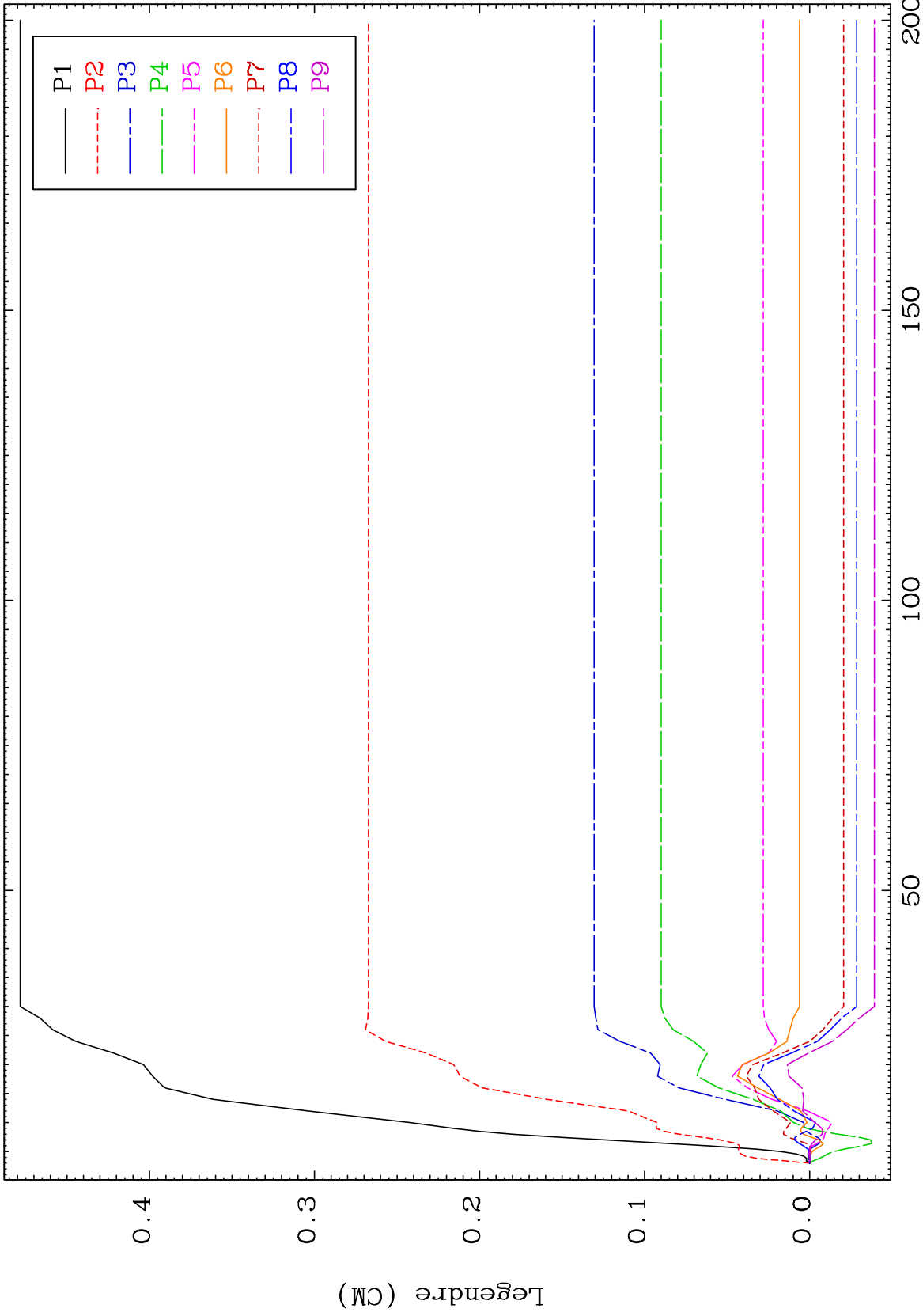
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



71

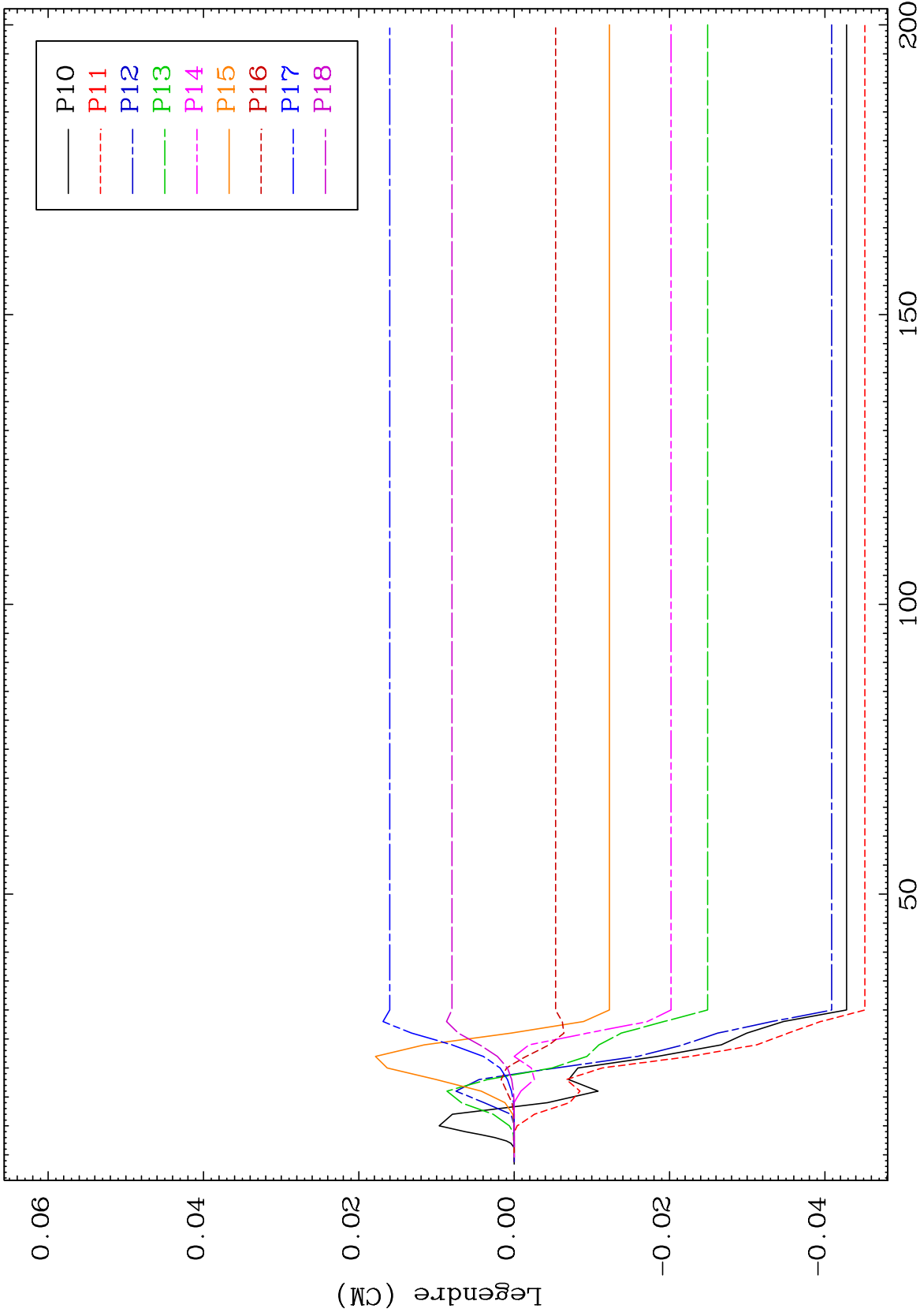
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



72

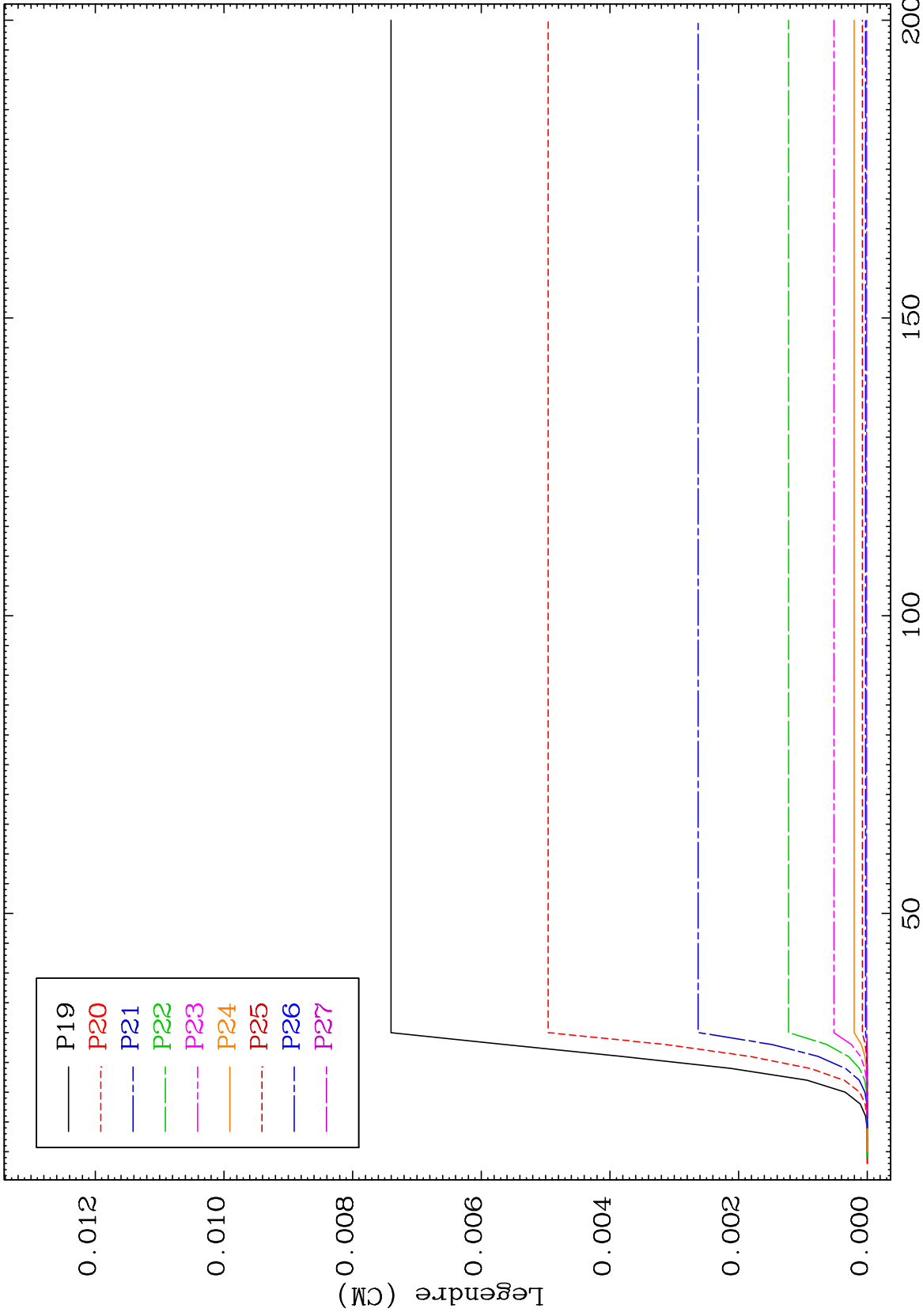
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



73

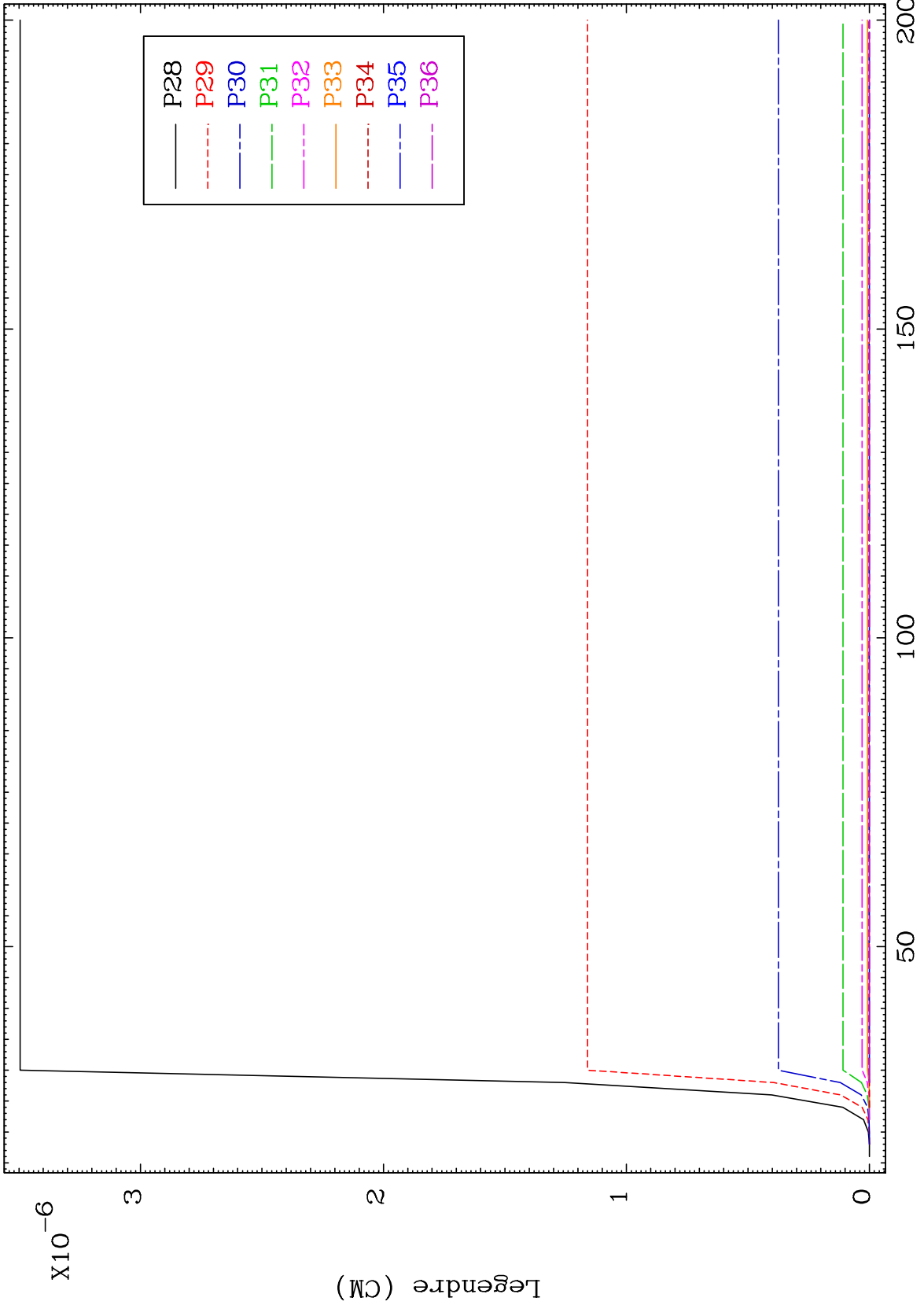
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



74

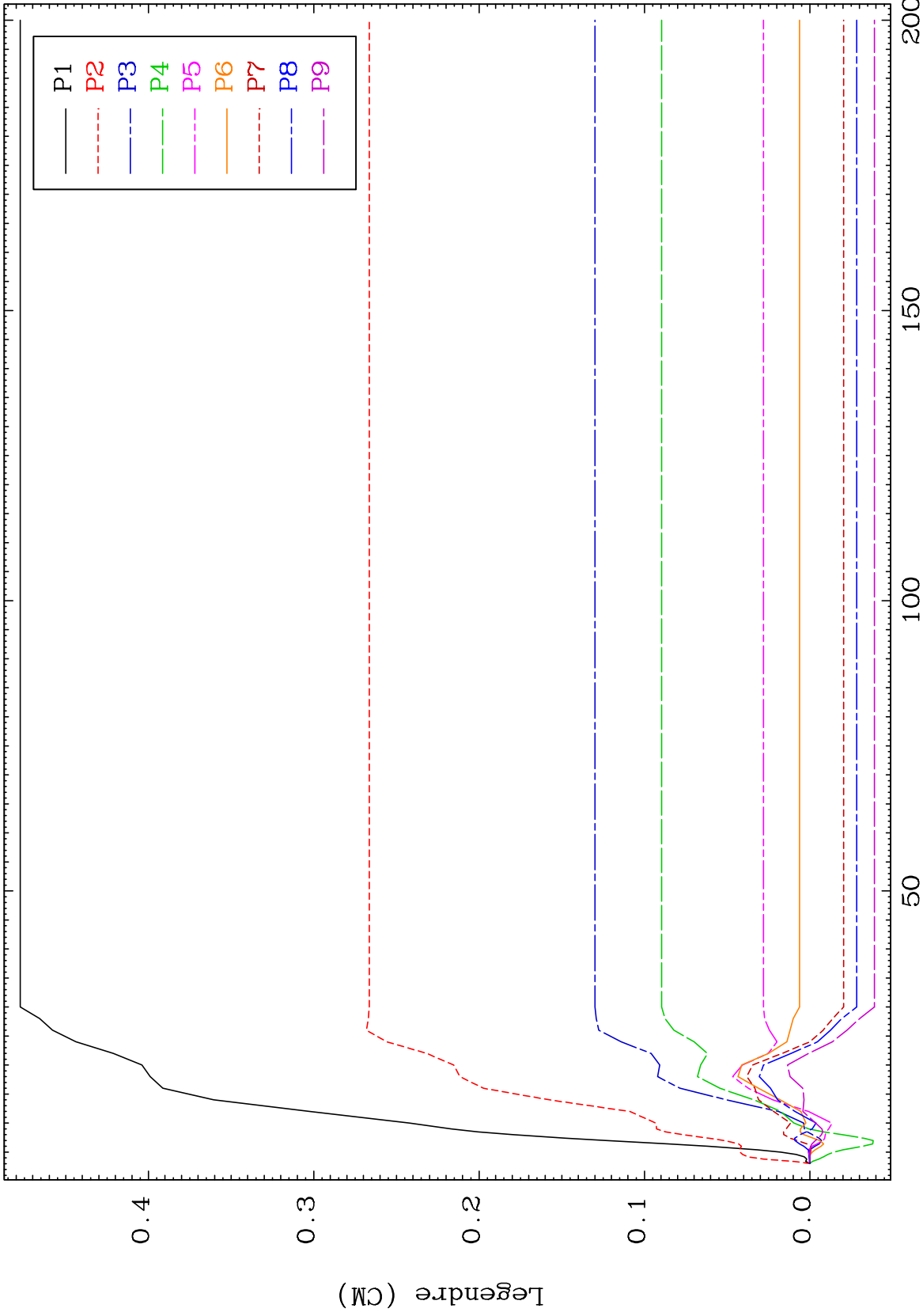
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



75

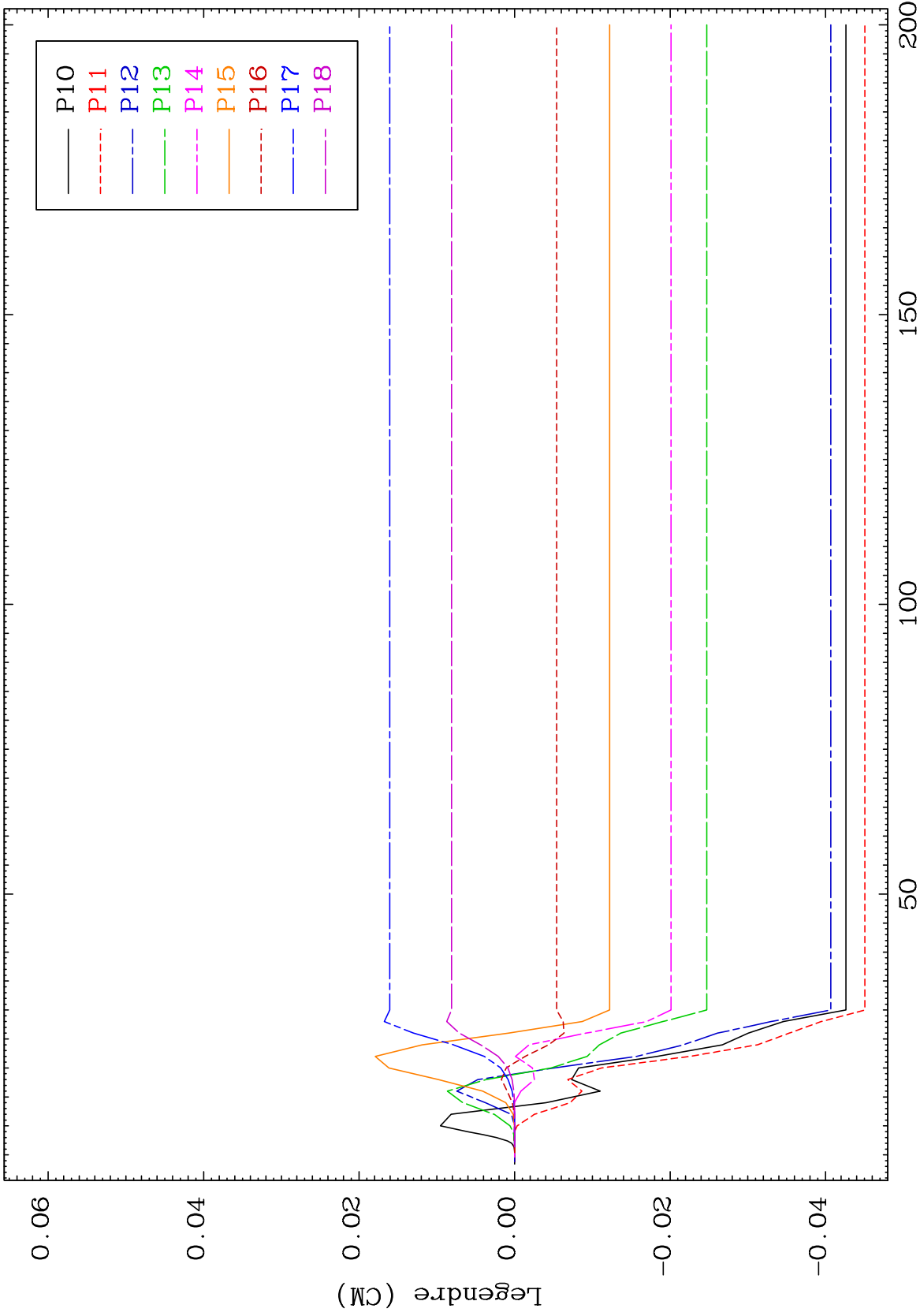
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



76

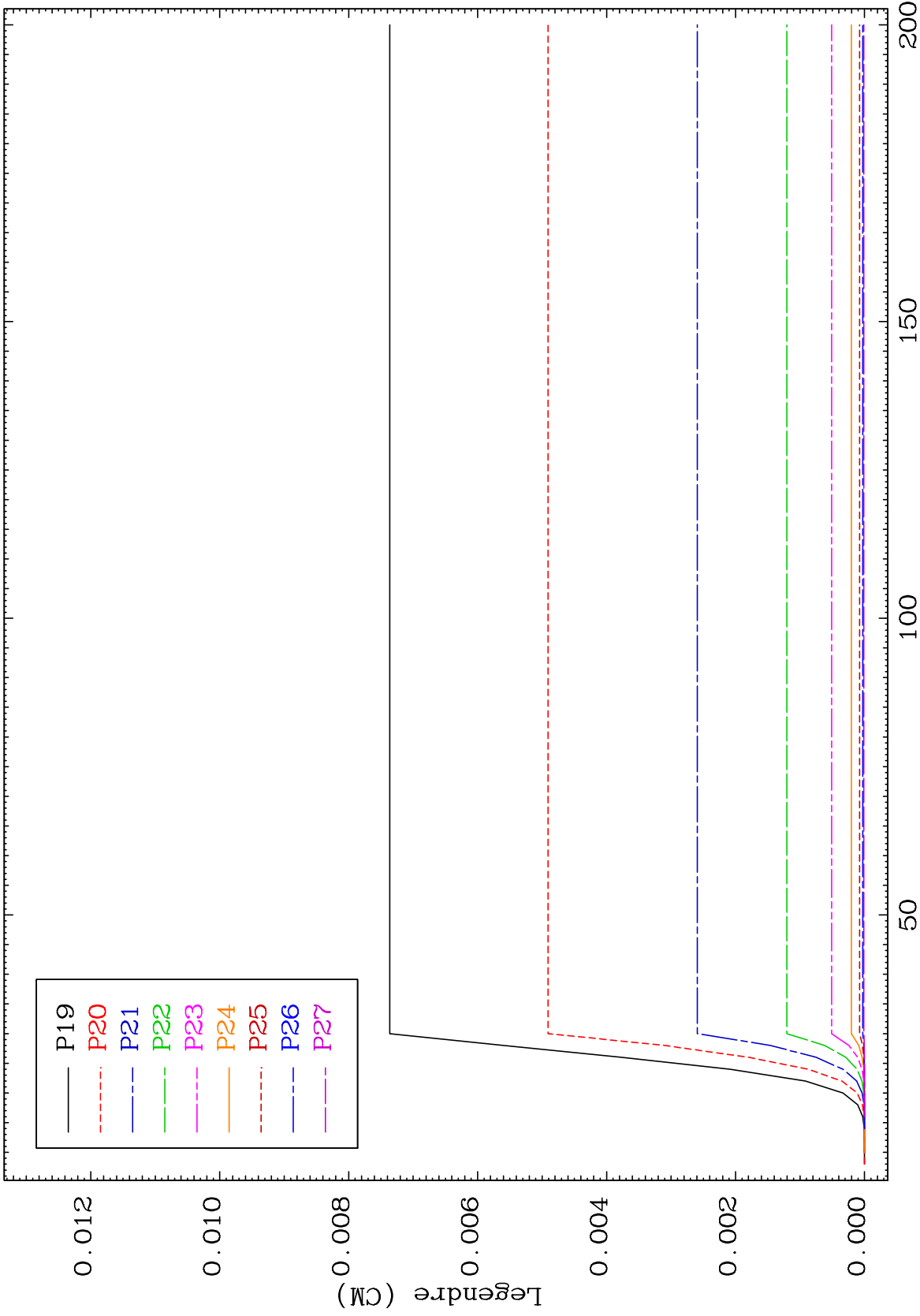
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



77

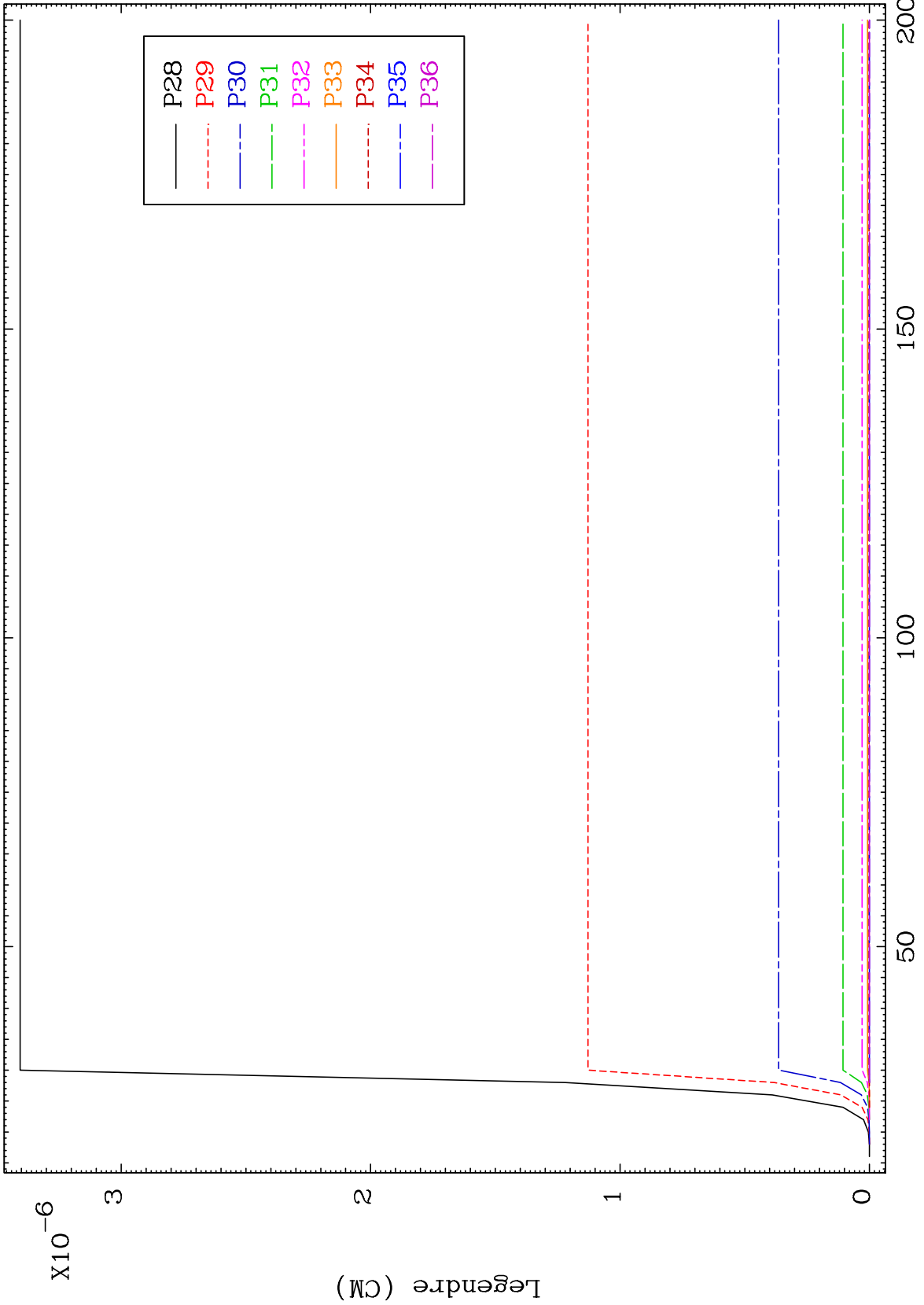
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



78

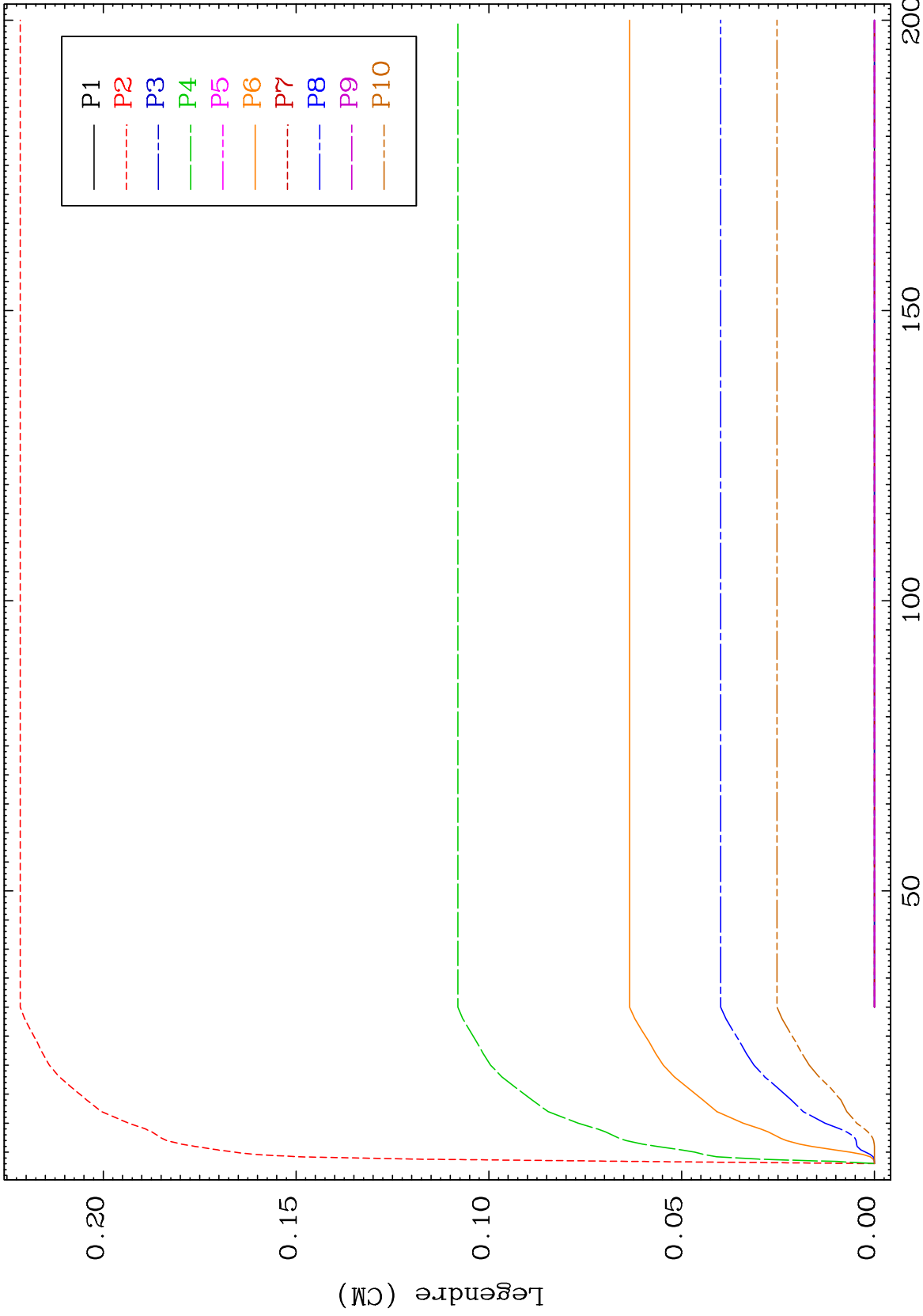
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



79

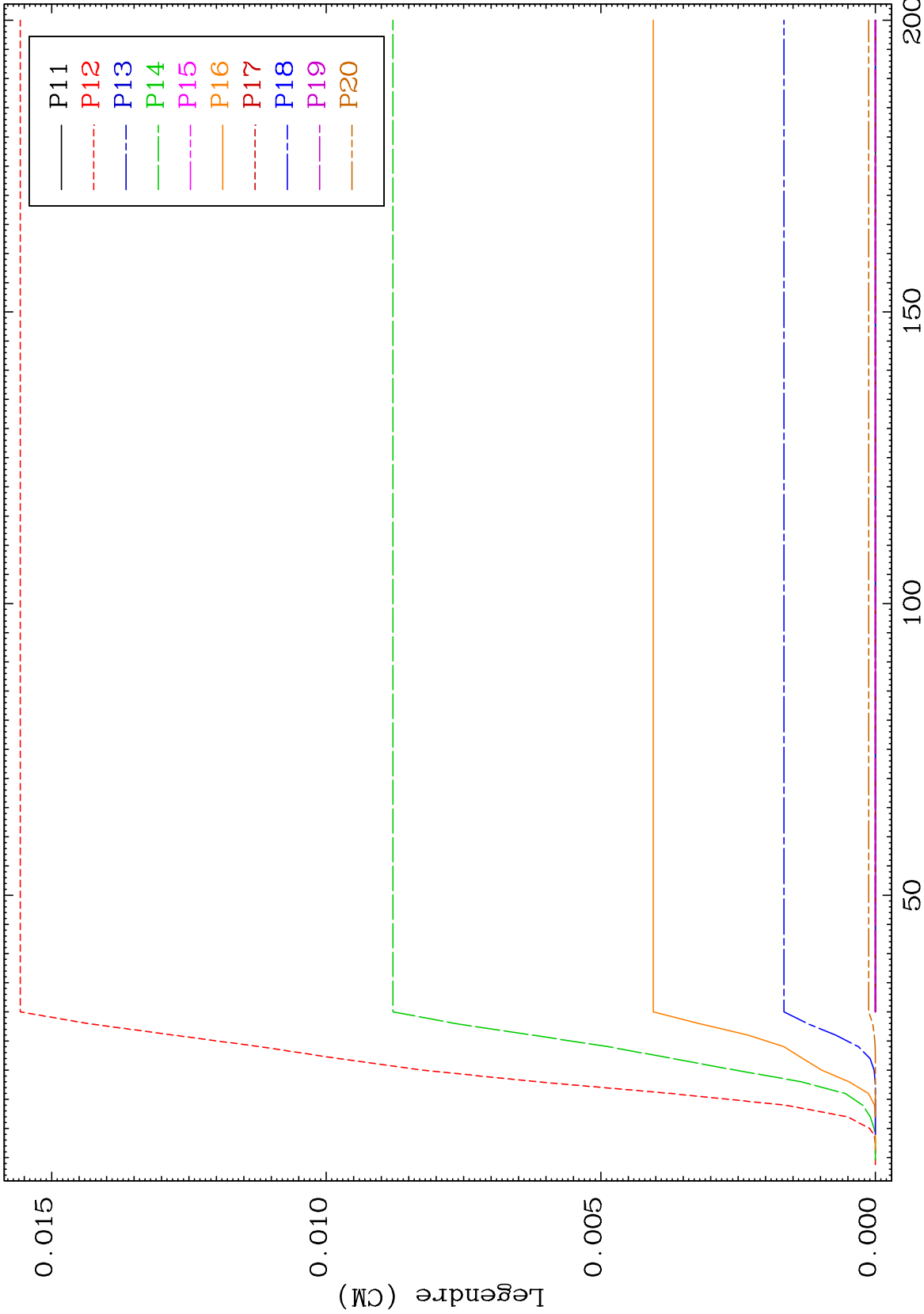
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



80

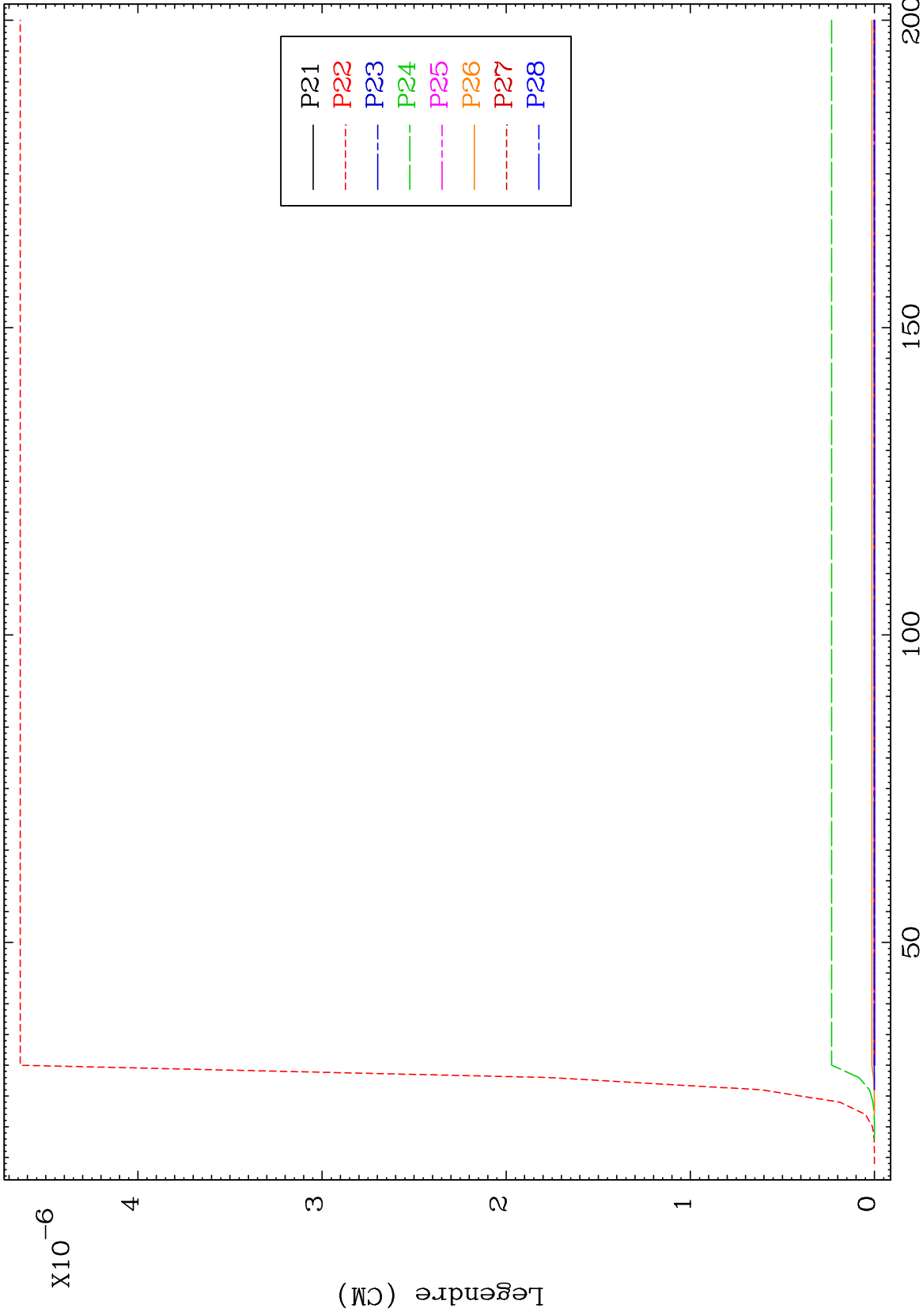
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



81

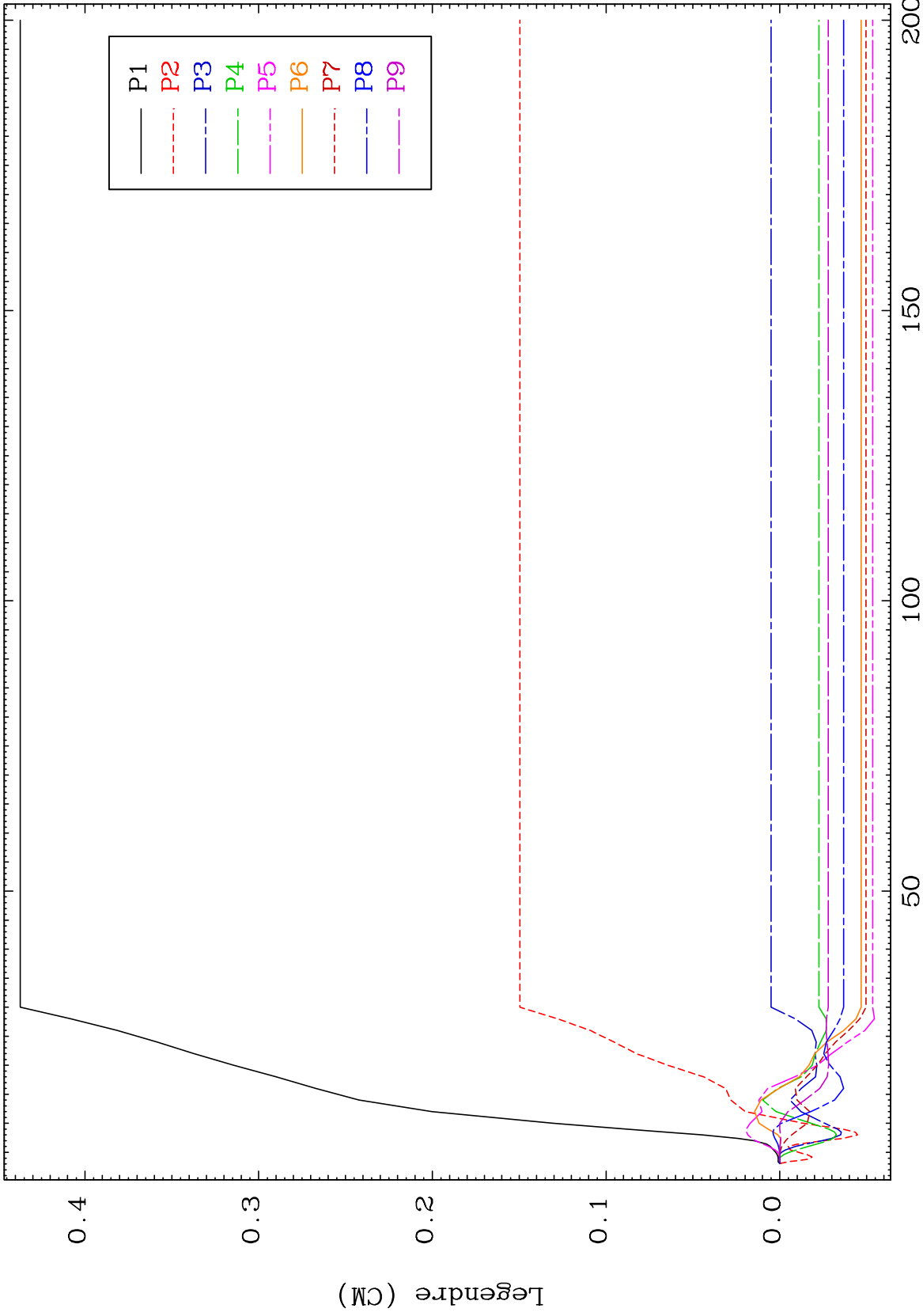
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



82

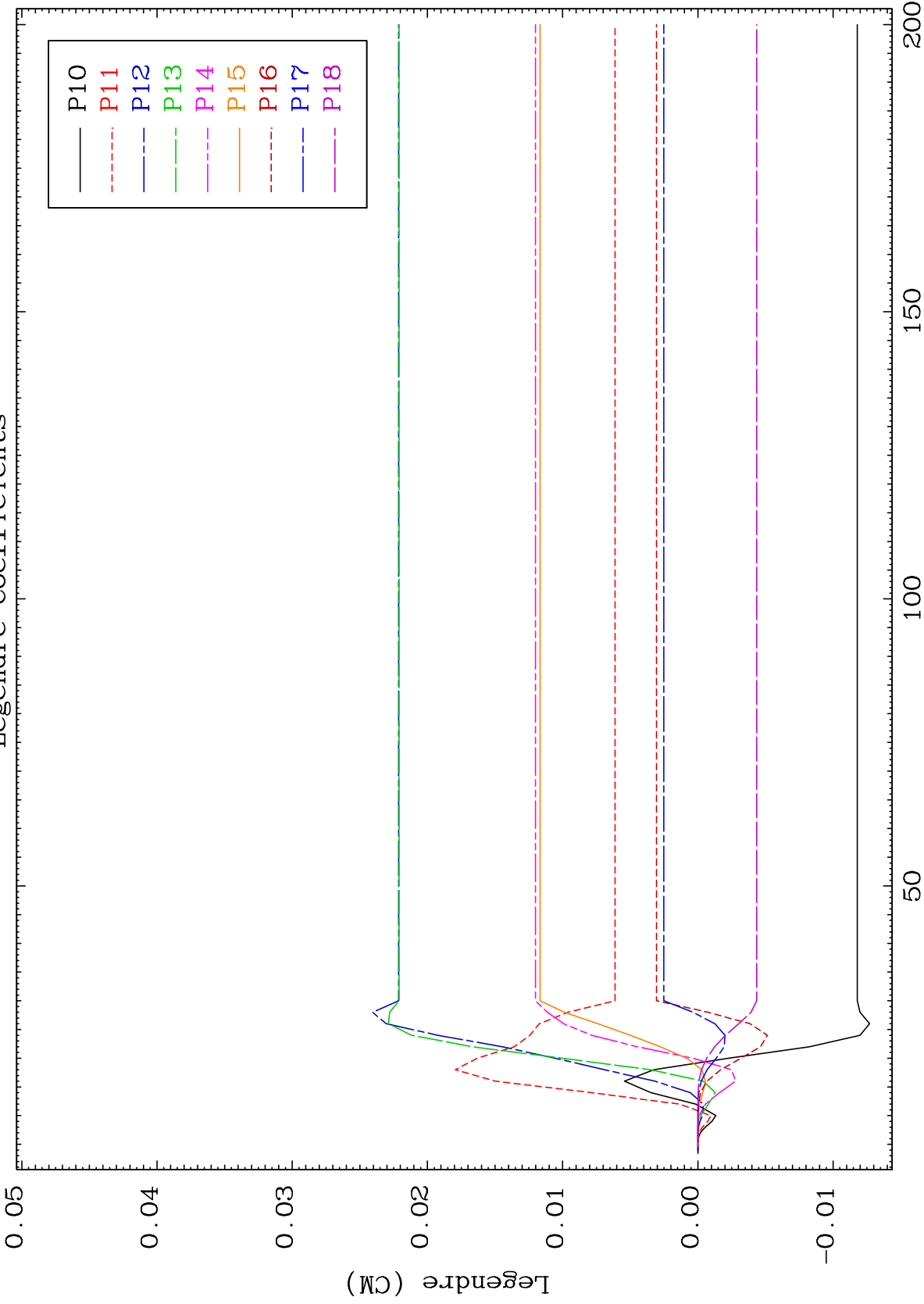
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



83

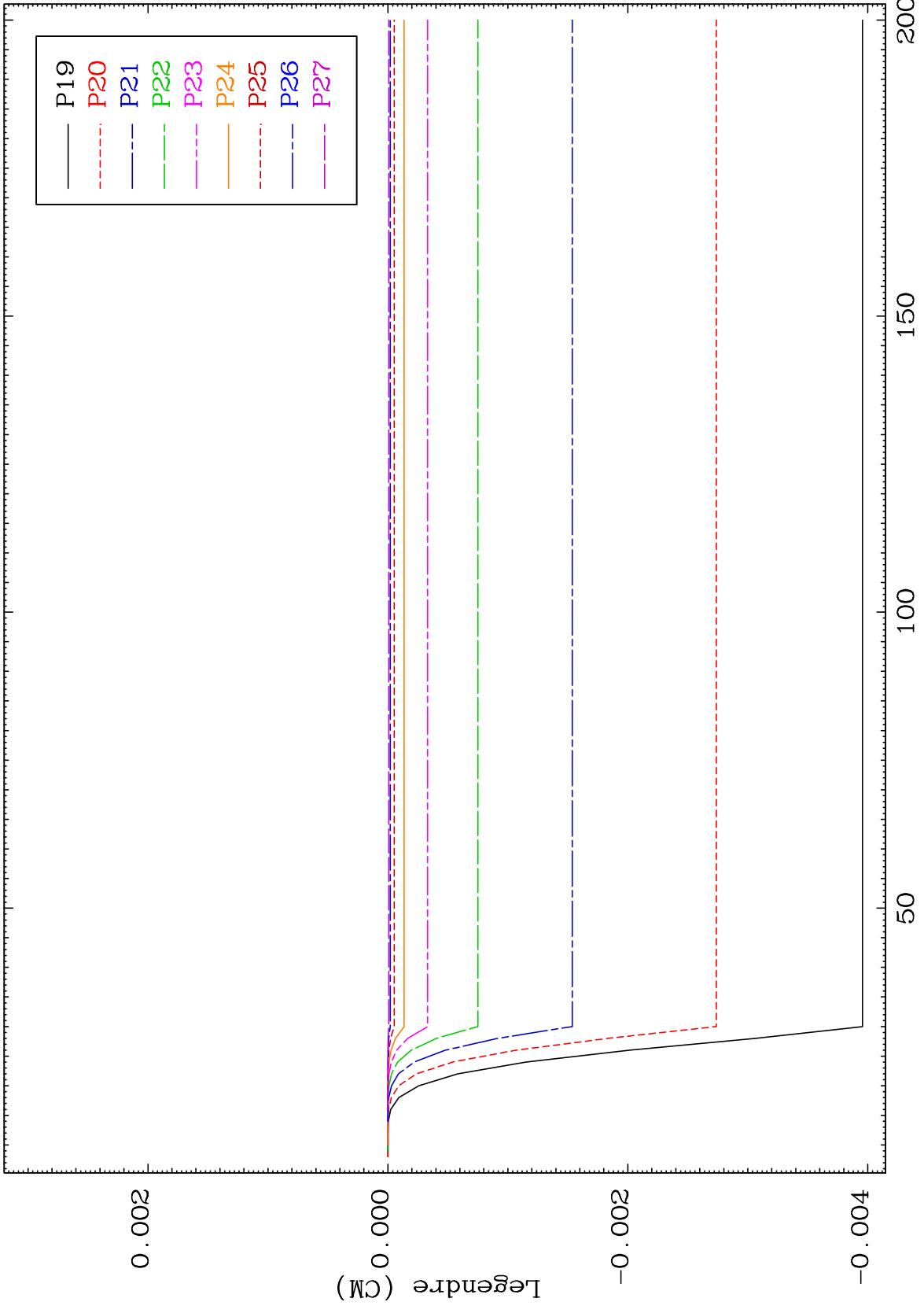
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



84

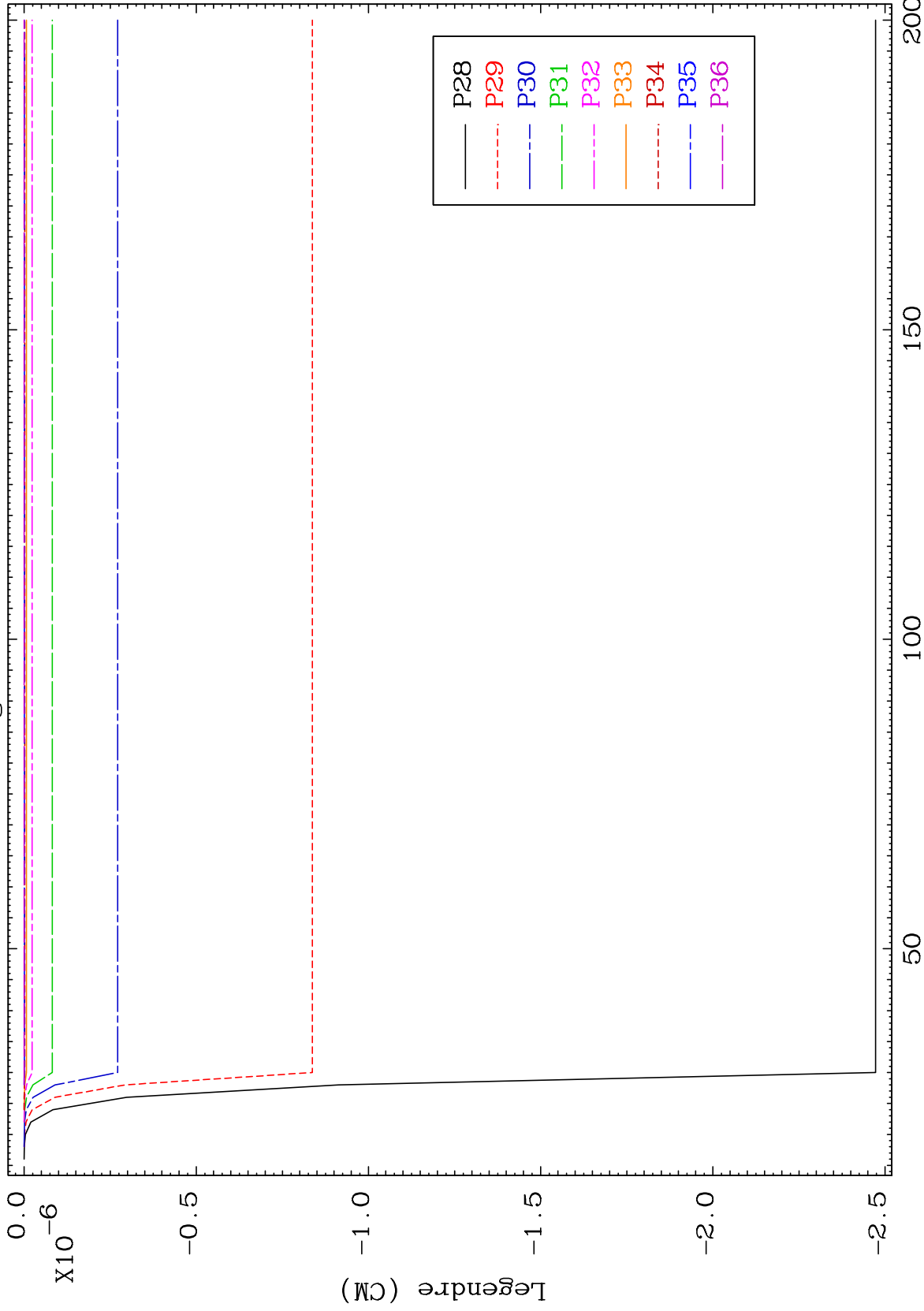
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



85

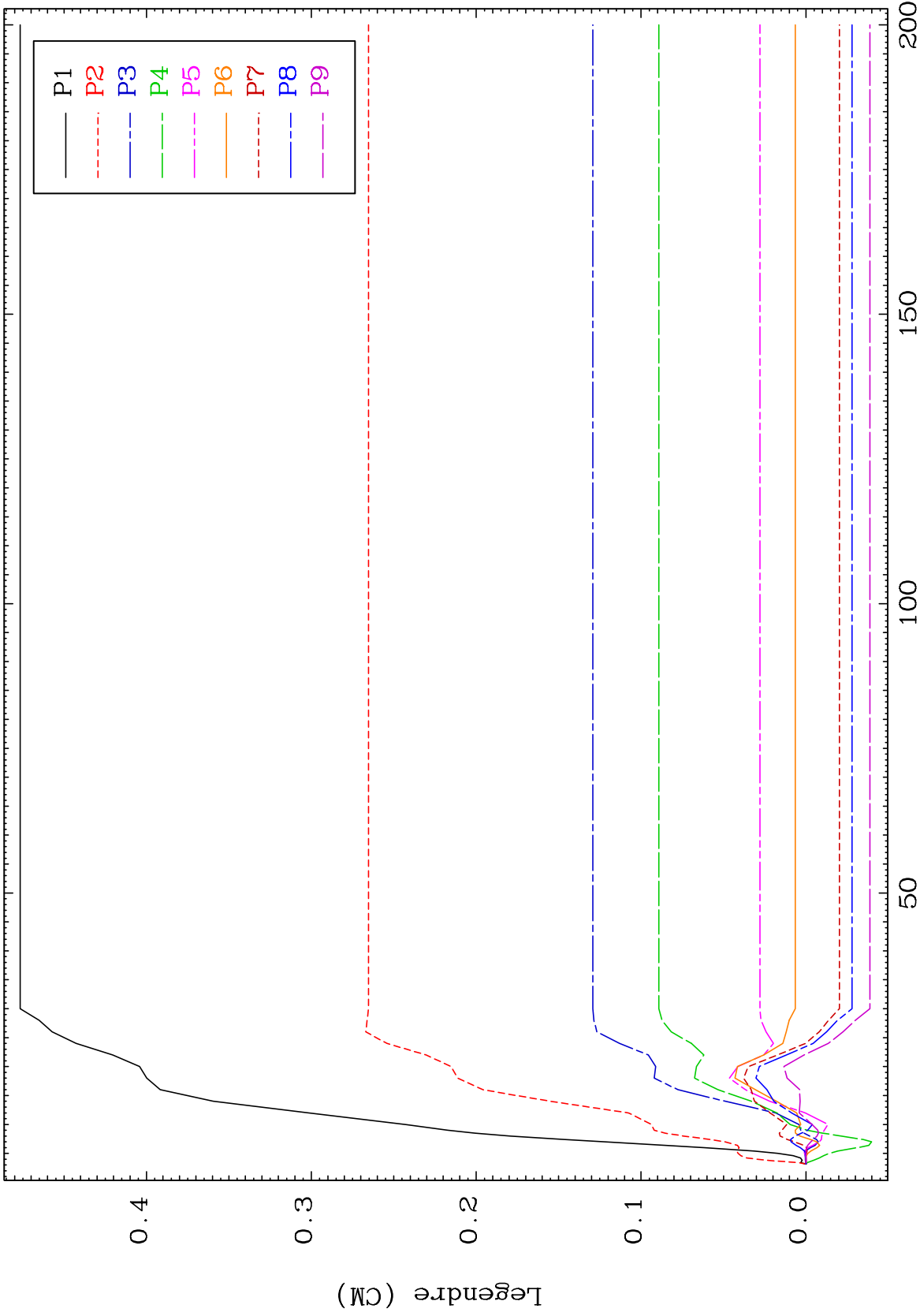
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



86

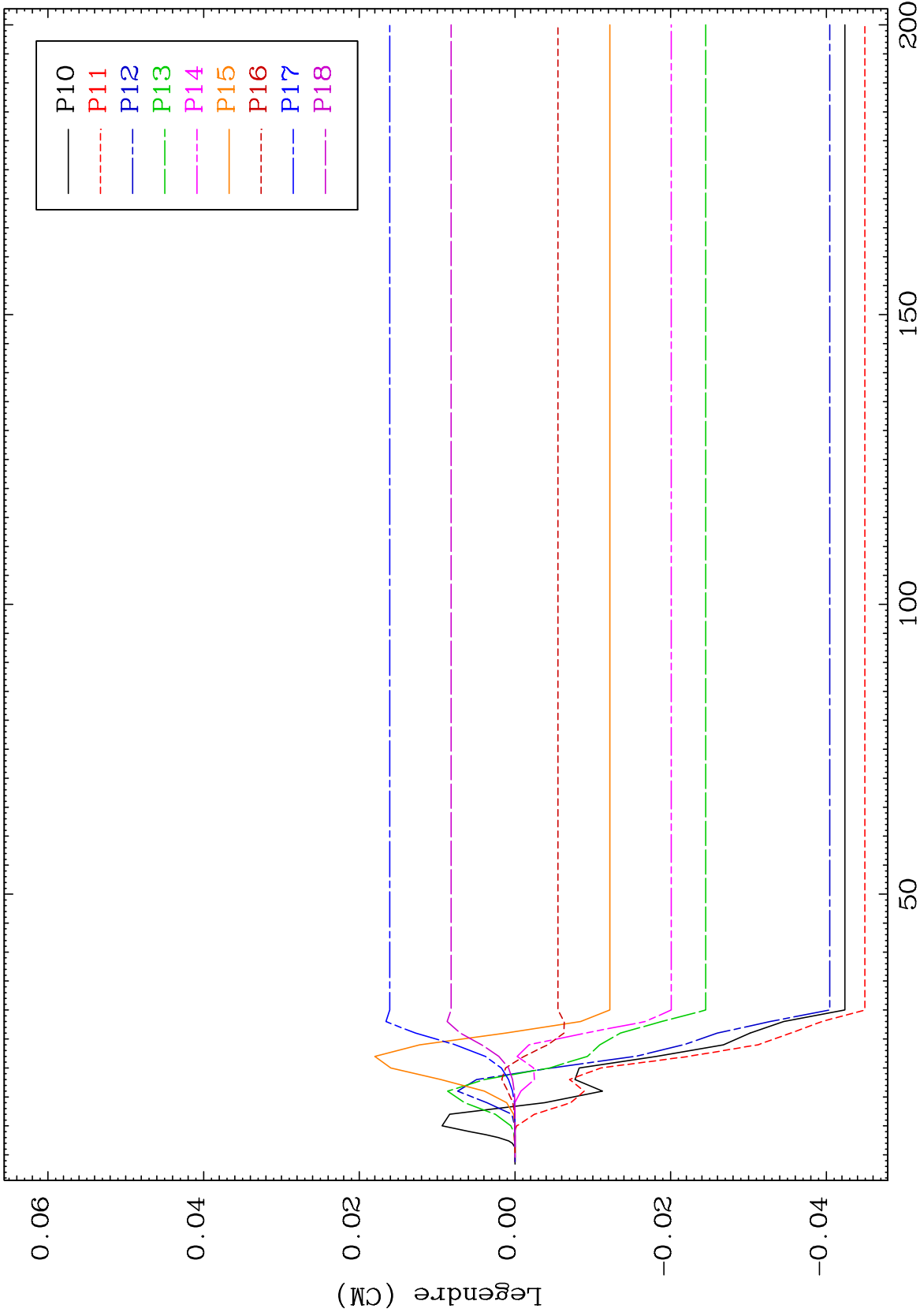
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



87

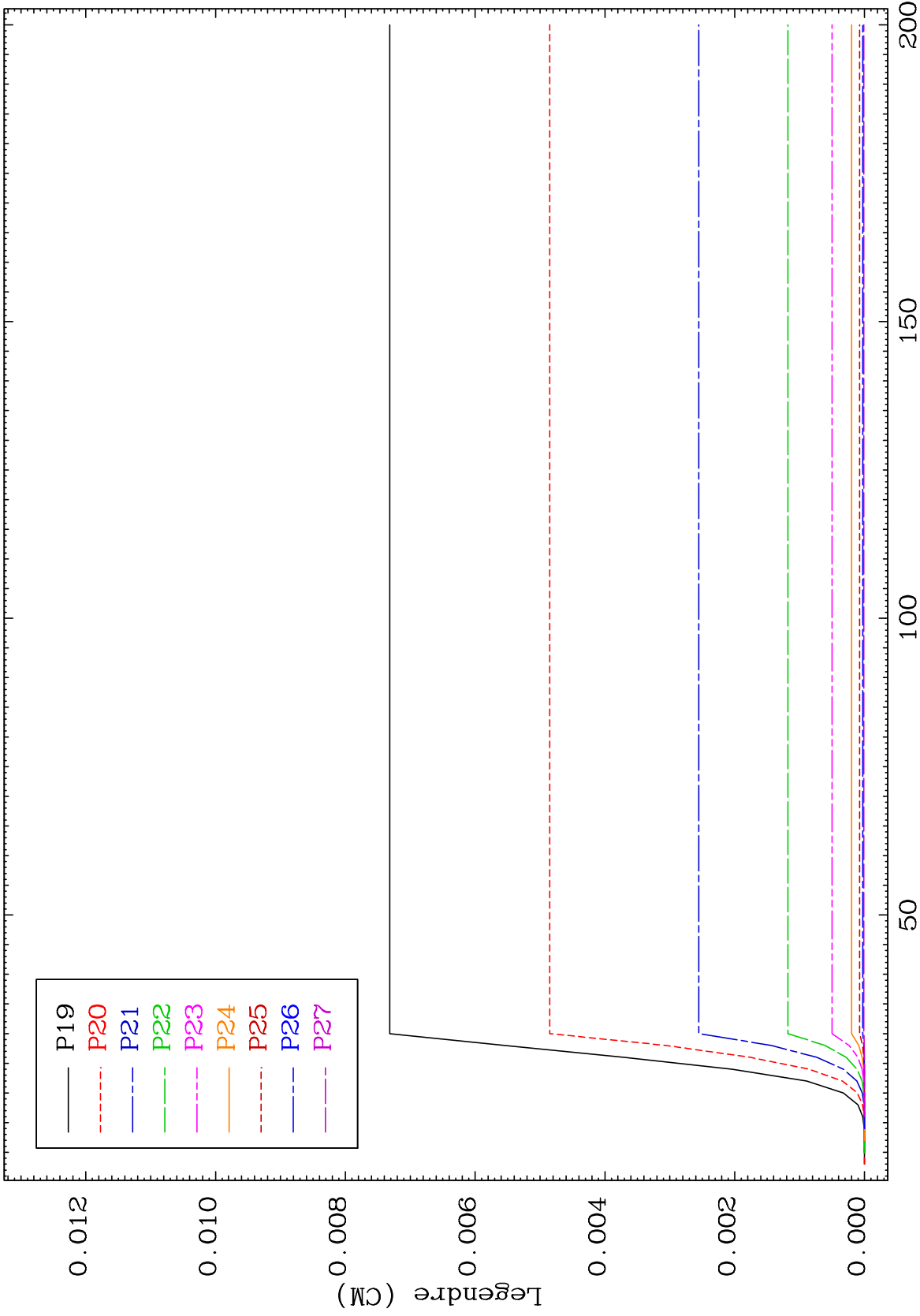
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



88

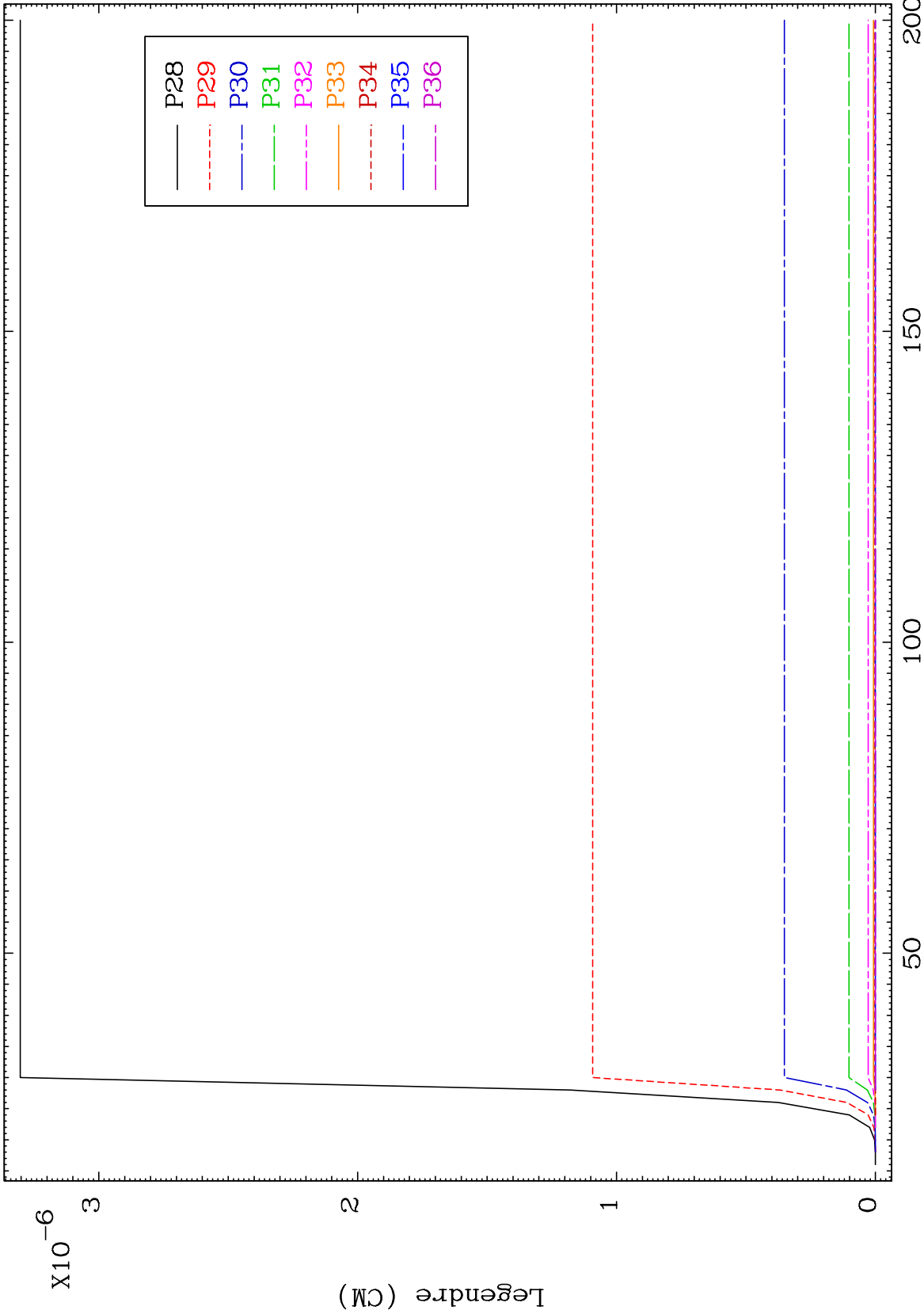
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



89

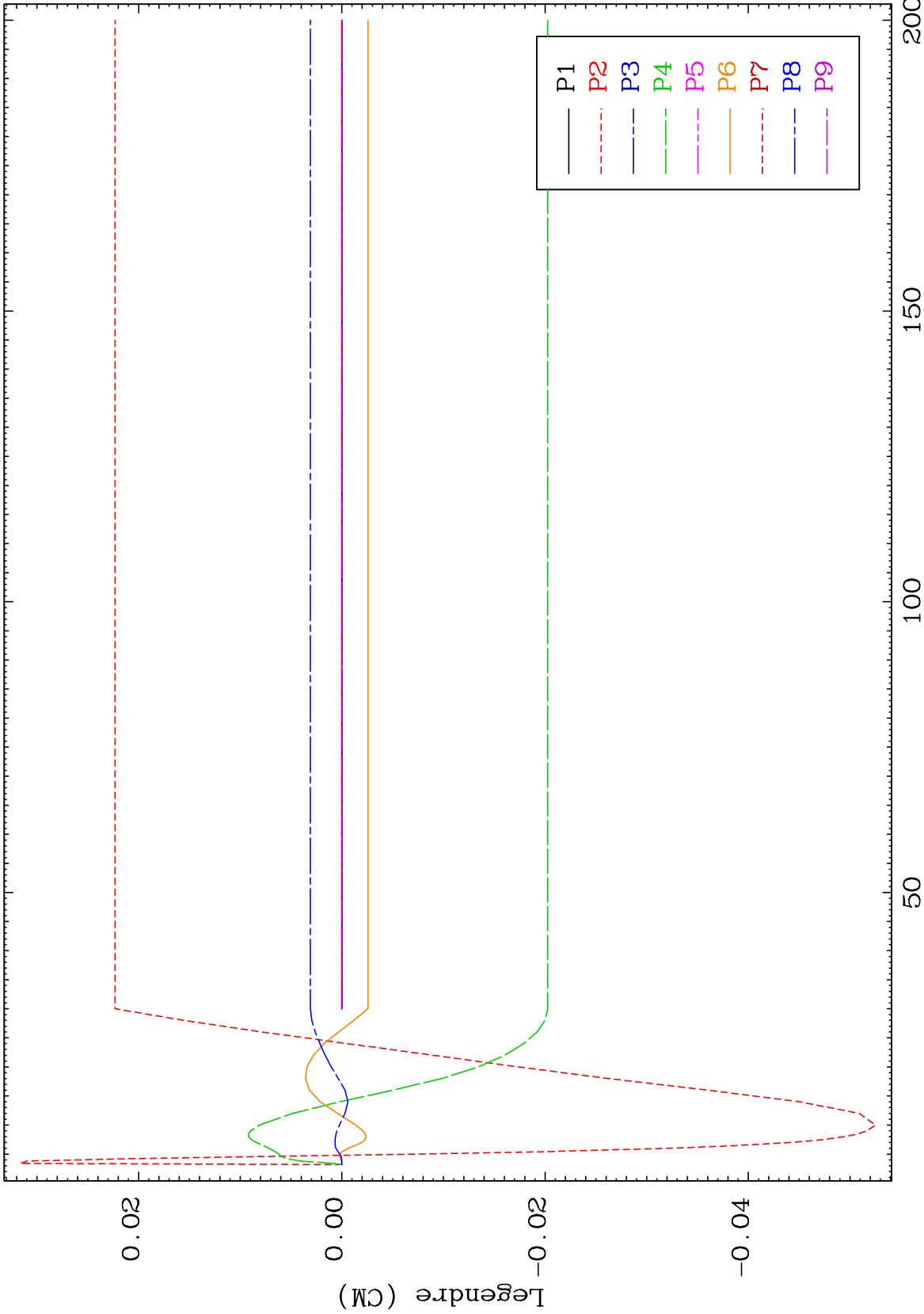
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



58-Ce-140

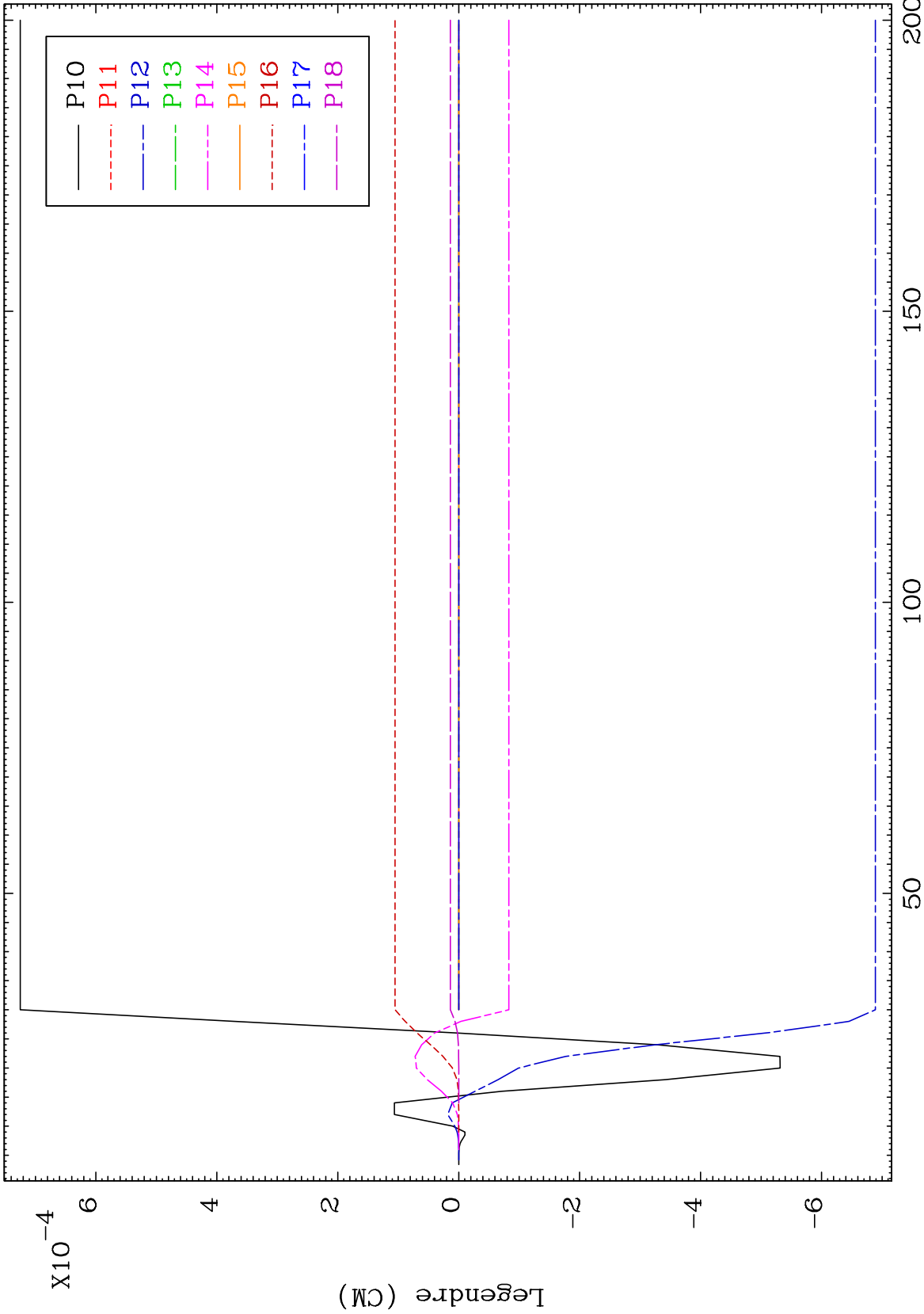
Incident Energy (MeV)

90

MAT 5837

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

58-Ce-140



91

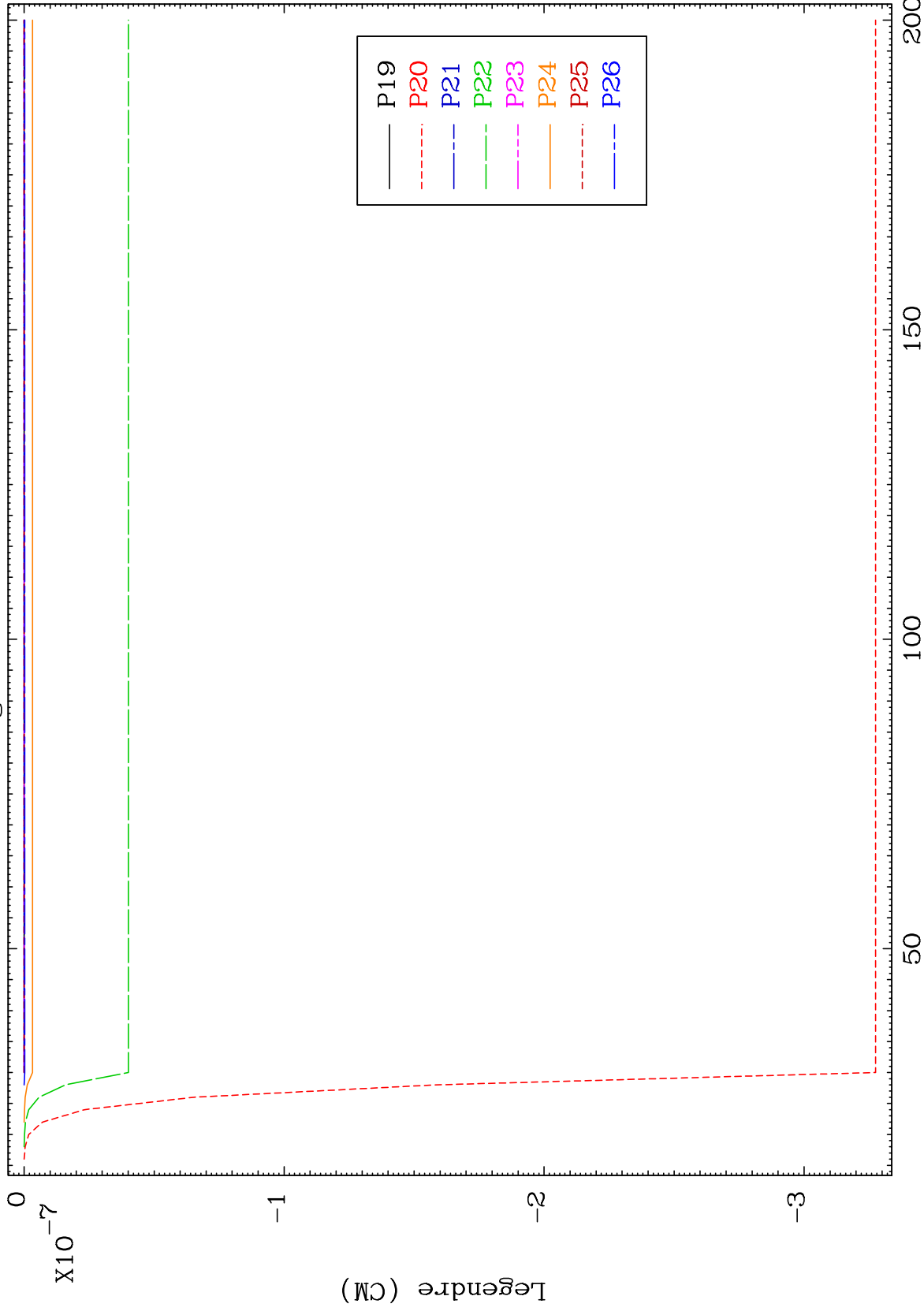
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



58-Ce-140

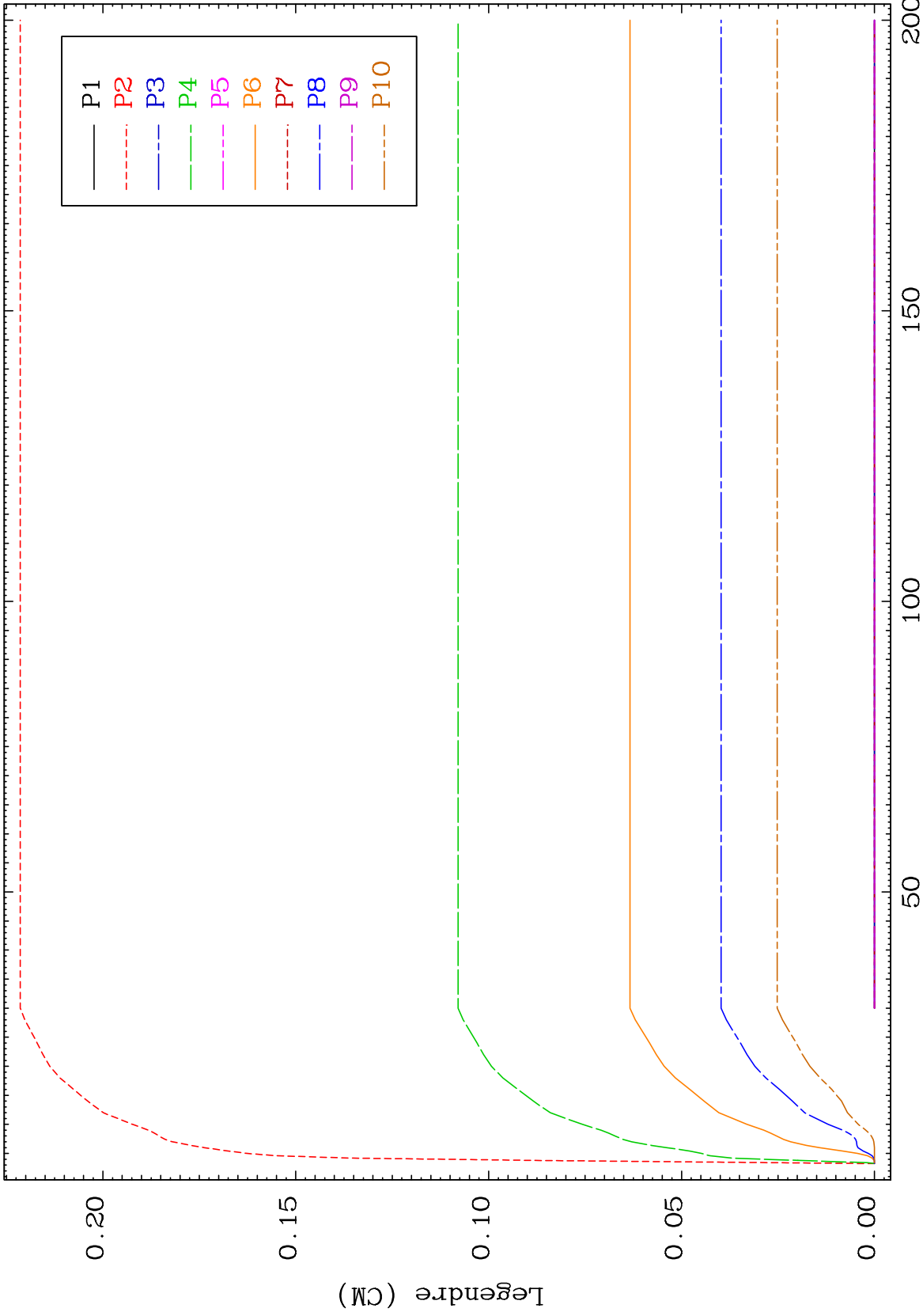
Incident Energy (MeV)

92

MAT 5837

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

58-Ce-140



93

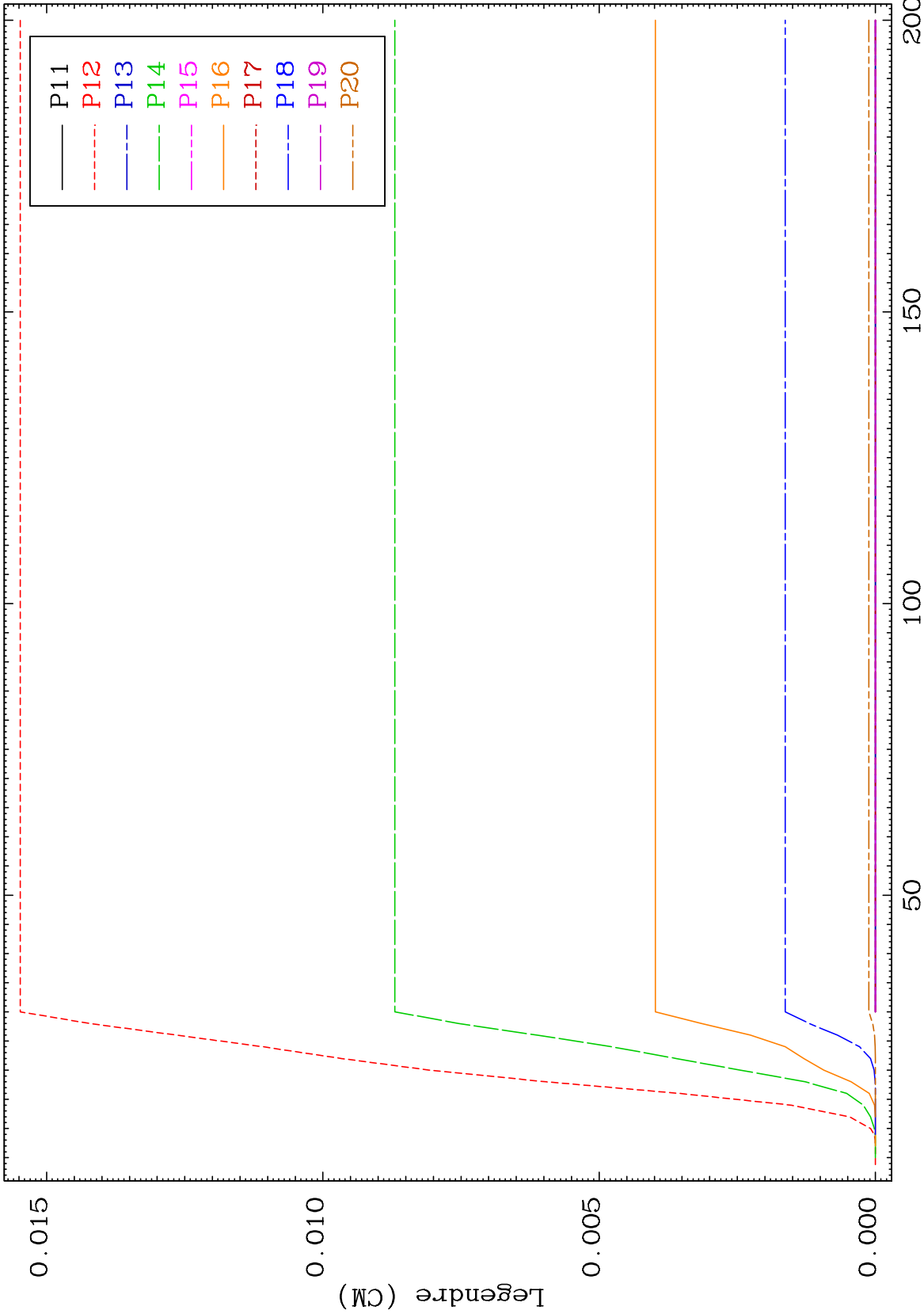
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



94

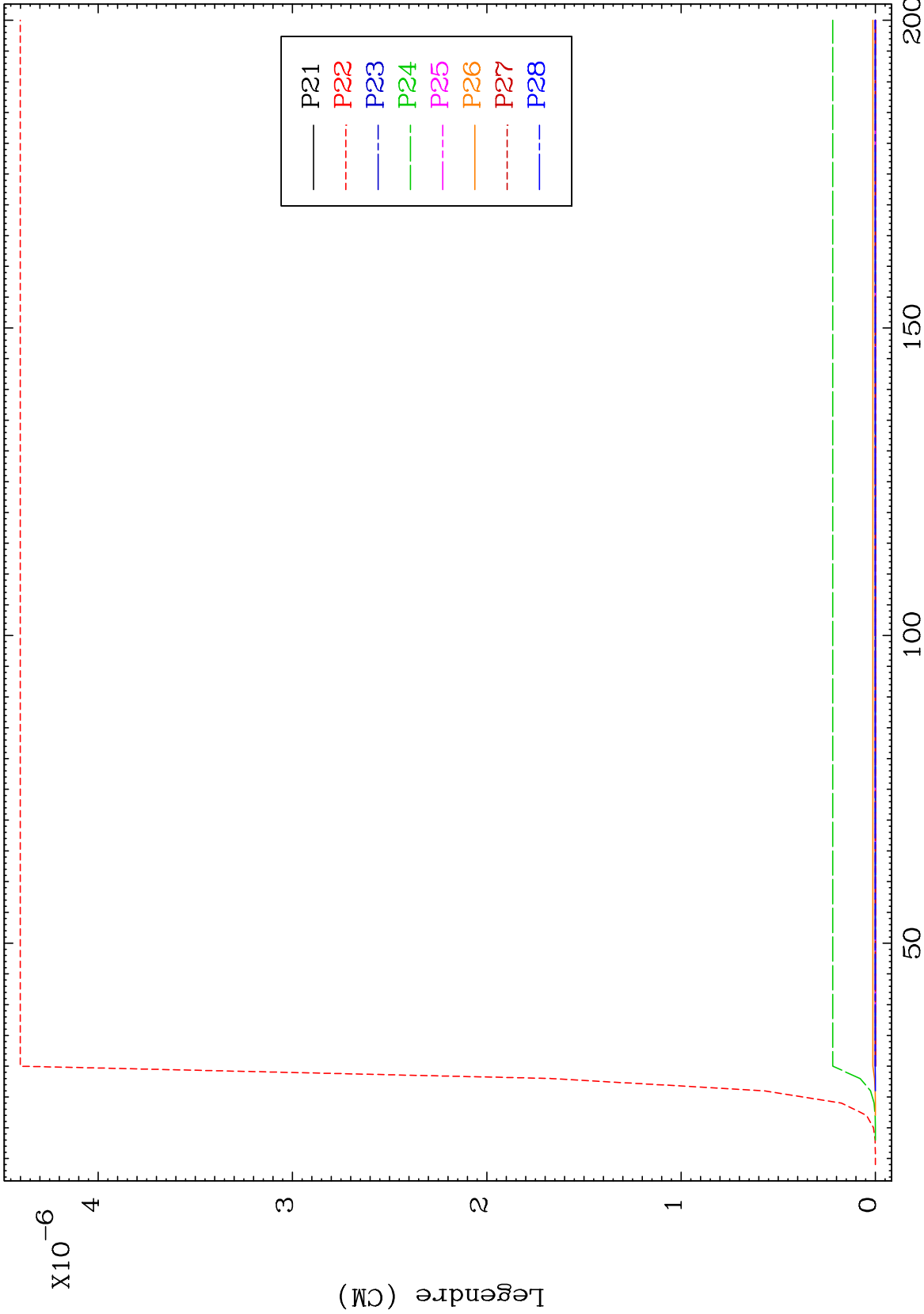
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



95

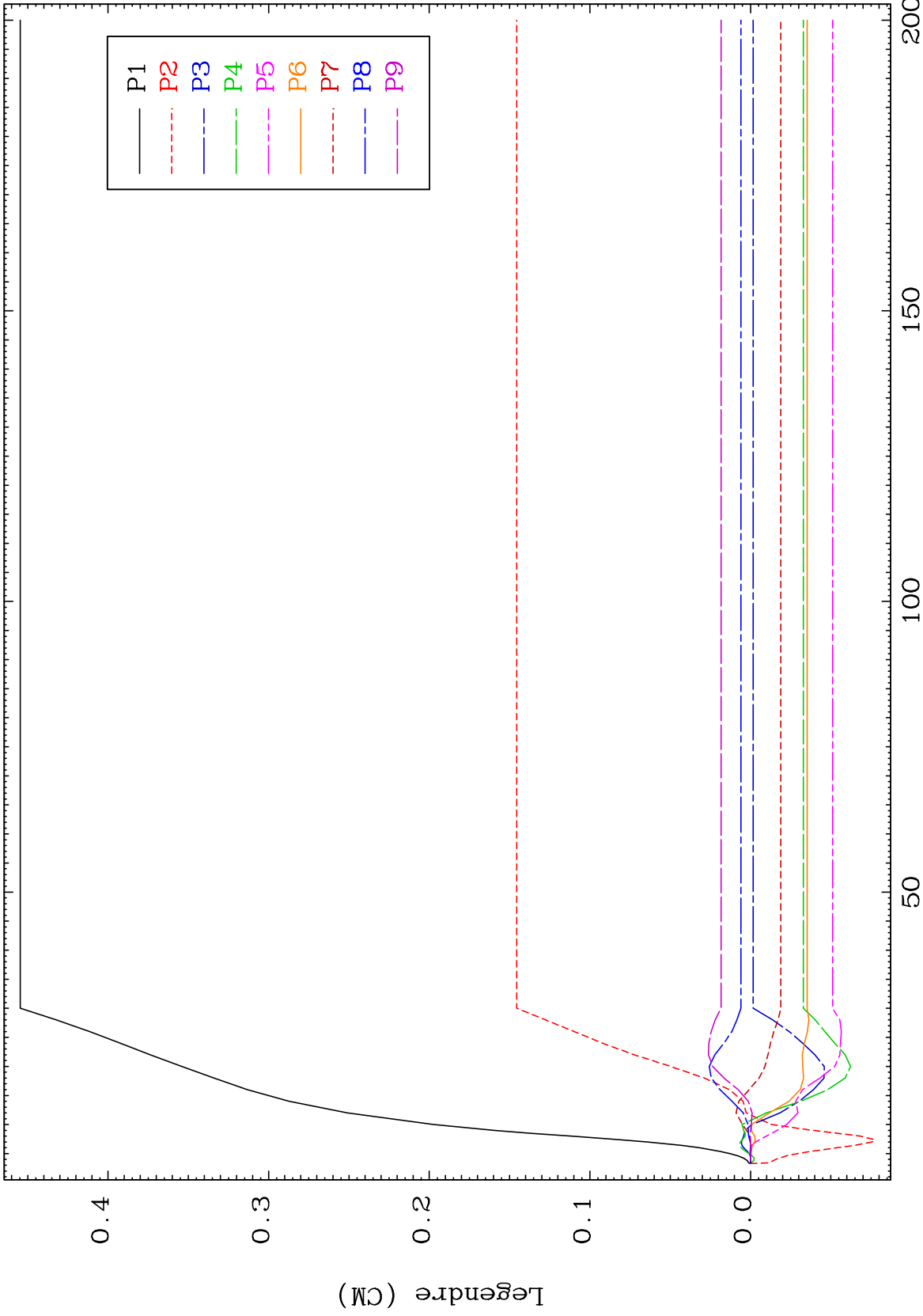
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



96

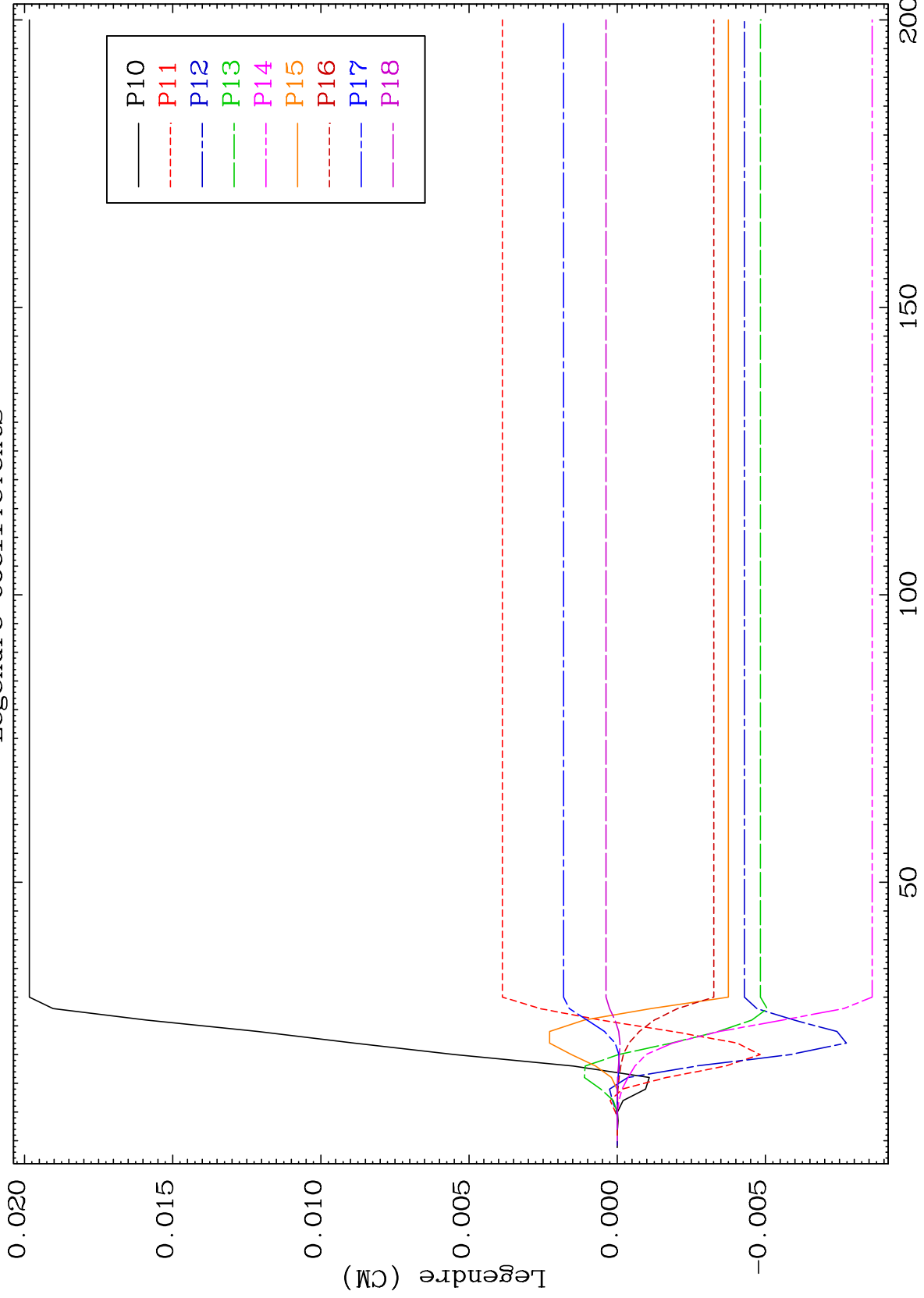
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



97

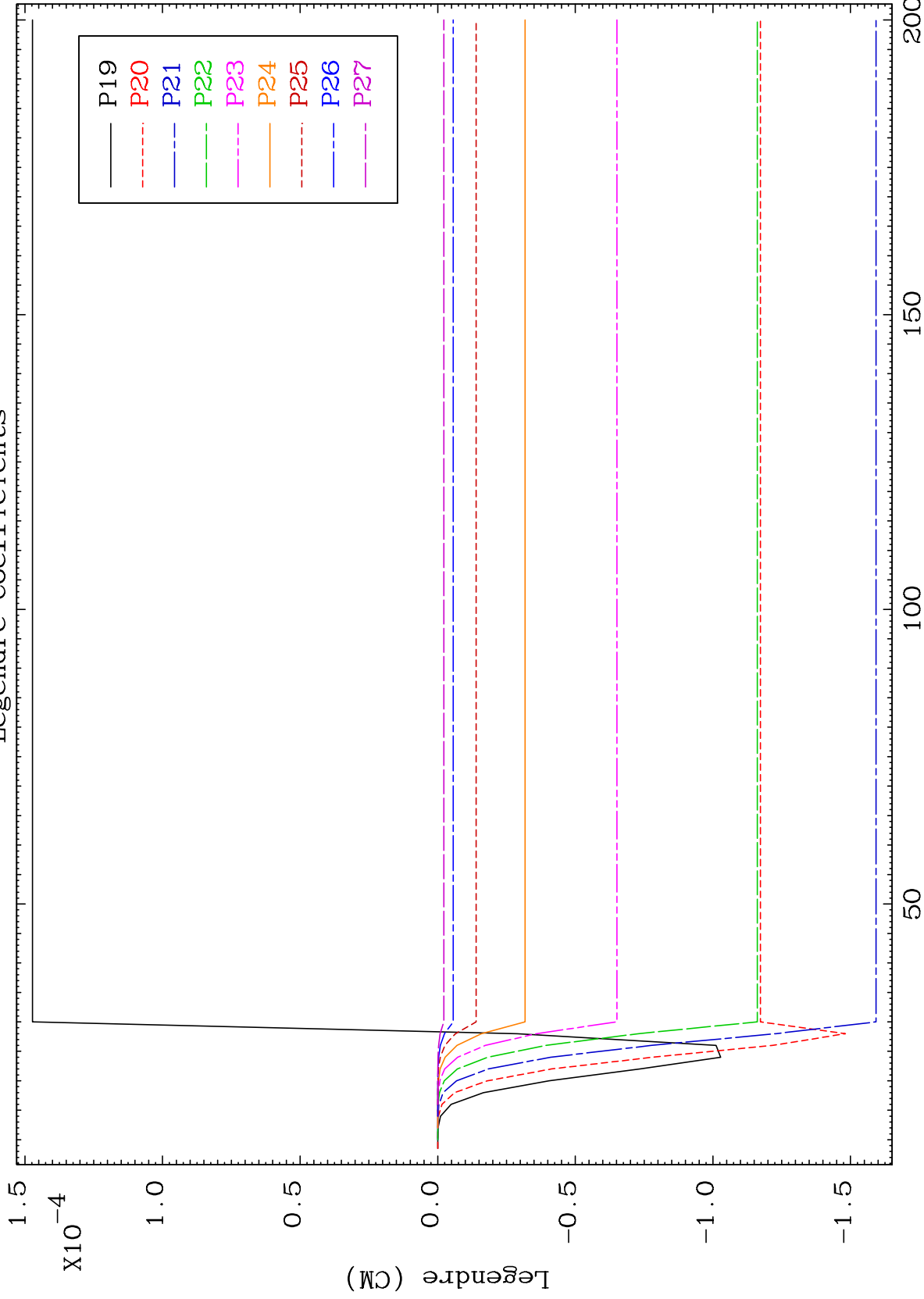
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140

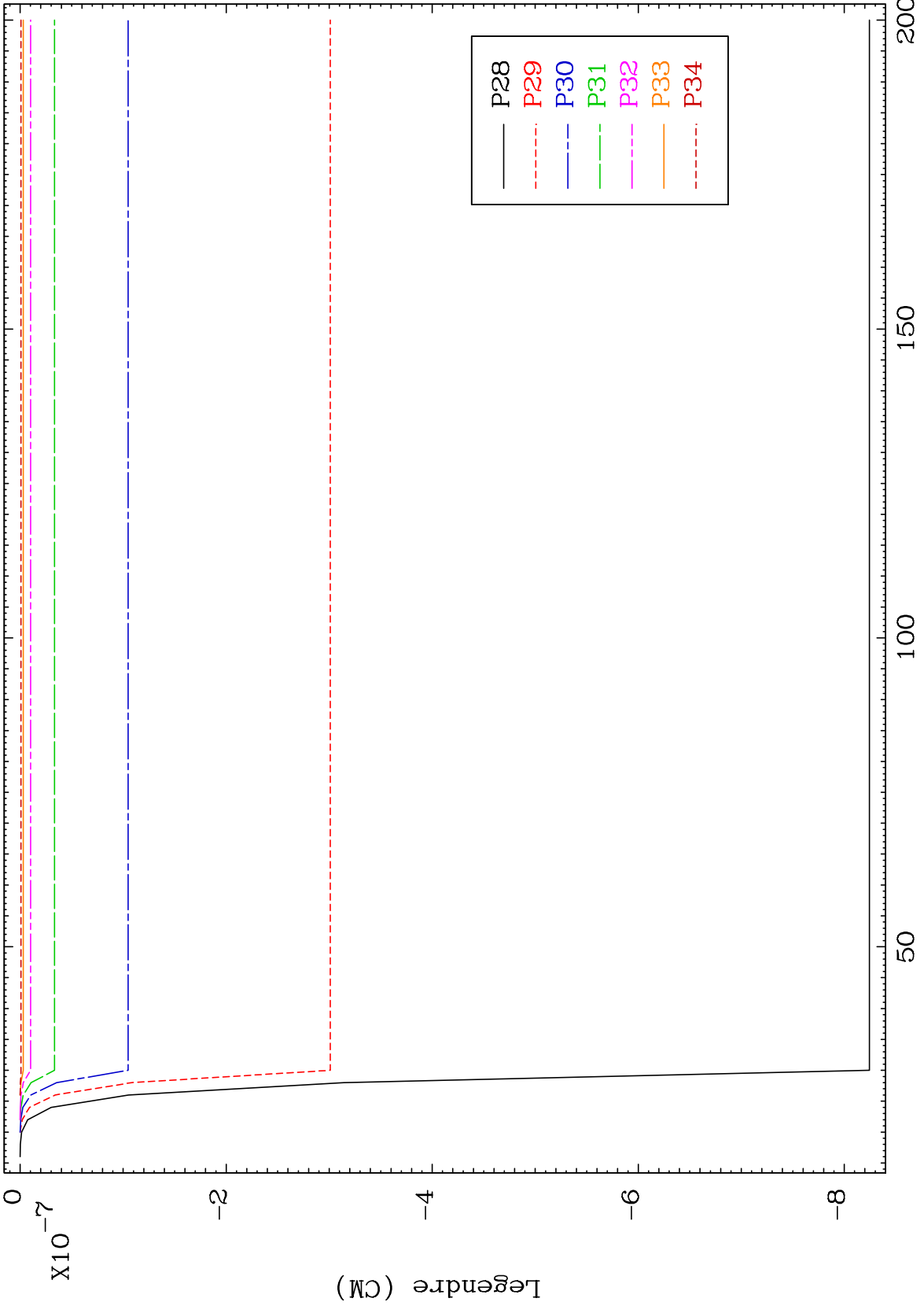


98

Incident Energy (MeV)

58-Ce-140

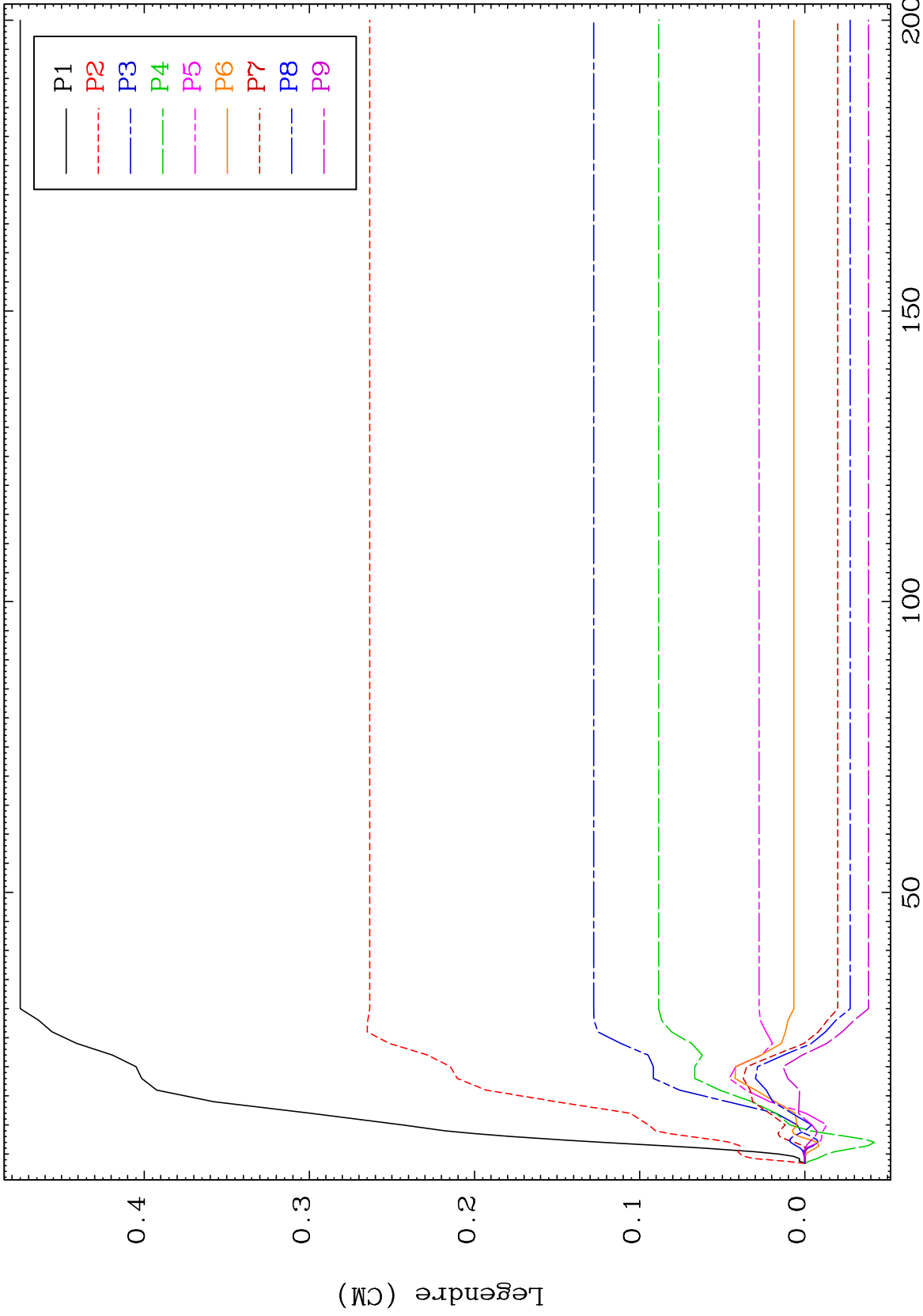
MAT 5837 MT= 72 (n,n') Level Legendre Coefficients 58-Ce-140



MAT 5837

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

58-Ce-140



58-Ce-140

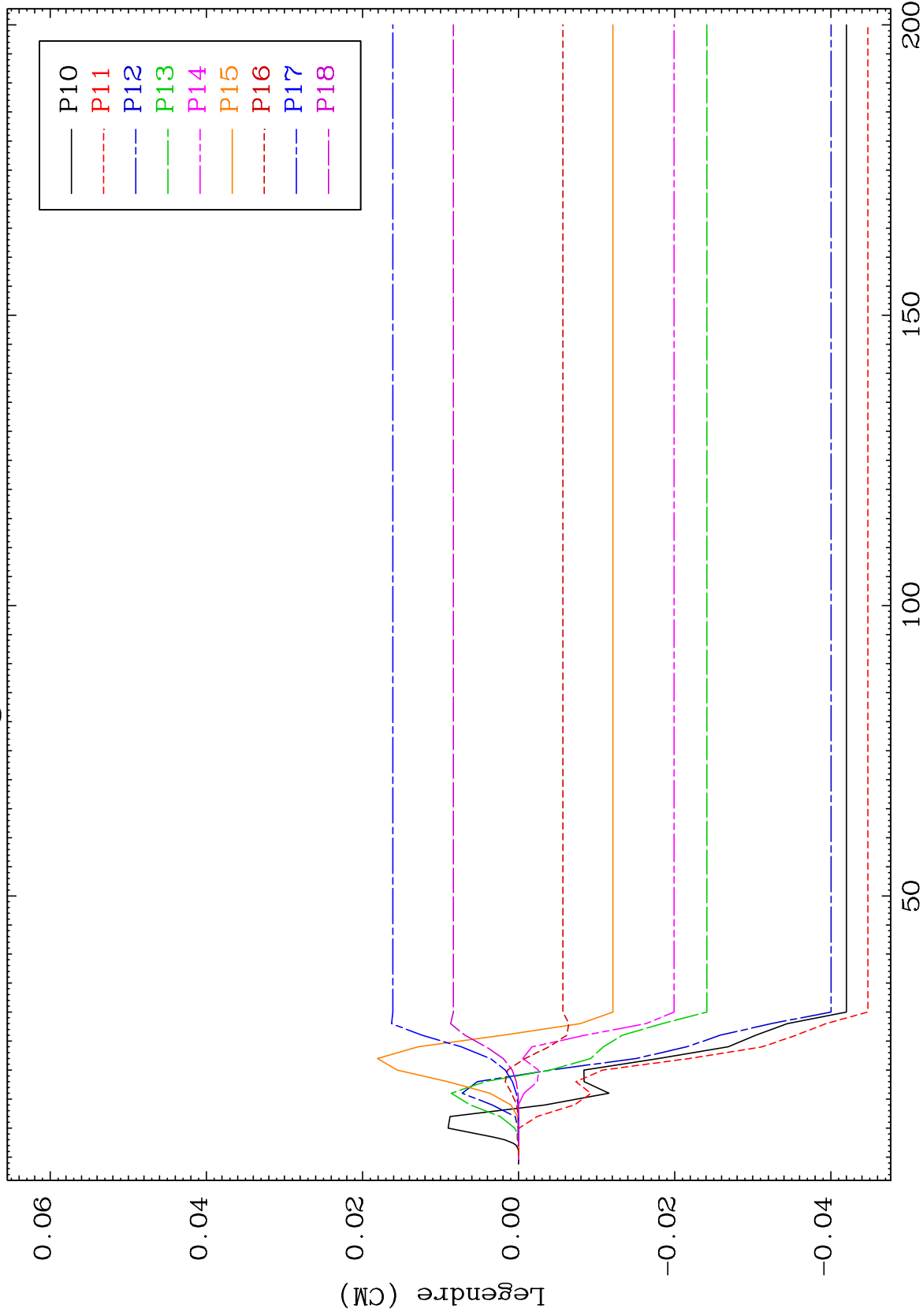
Incident Energy (MeV)

Legendre (CM)

MAT 5837

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

58-Ce-140



101

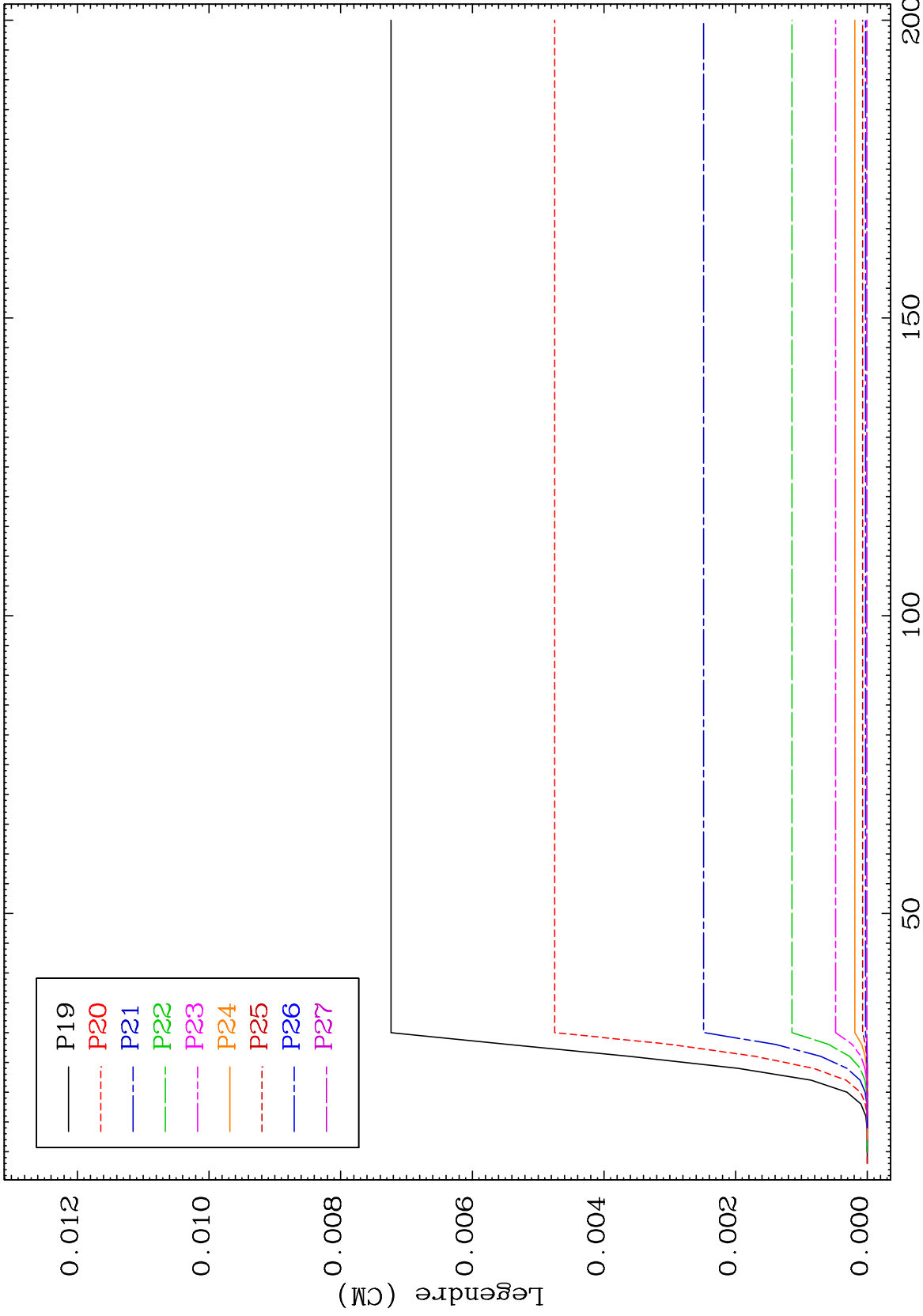
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



102

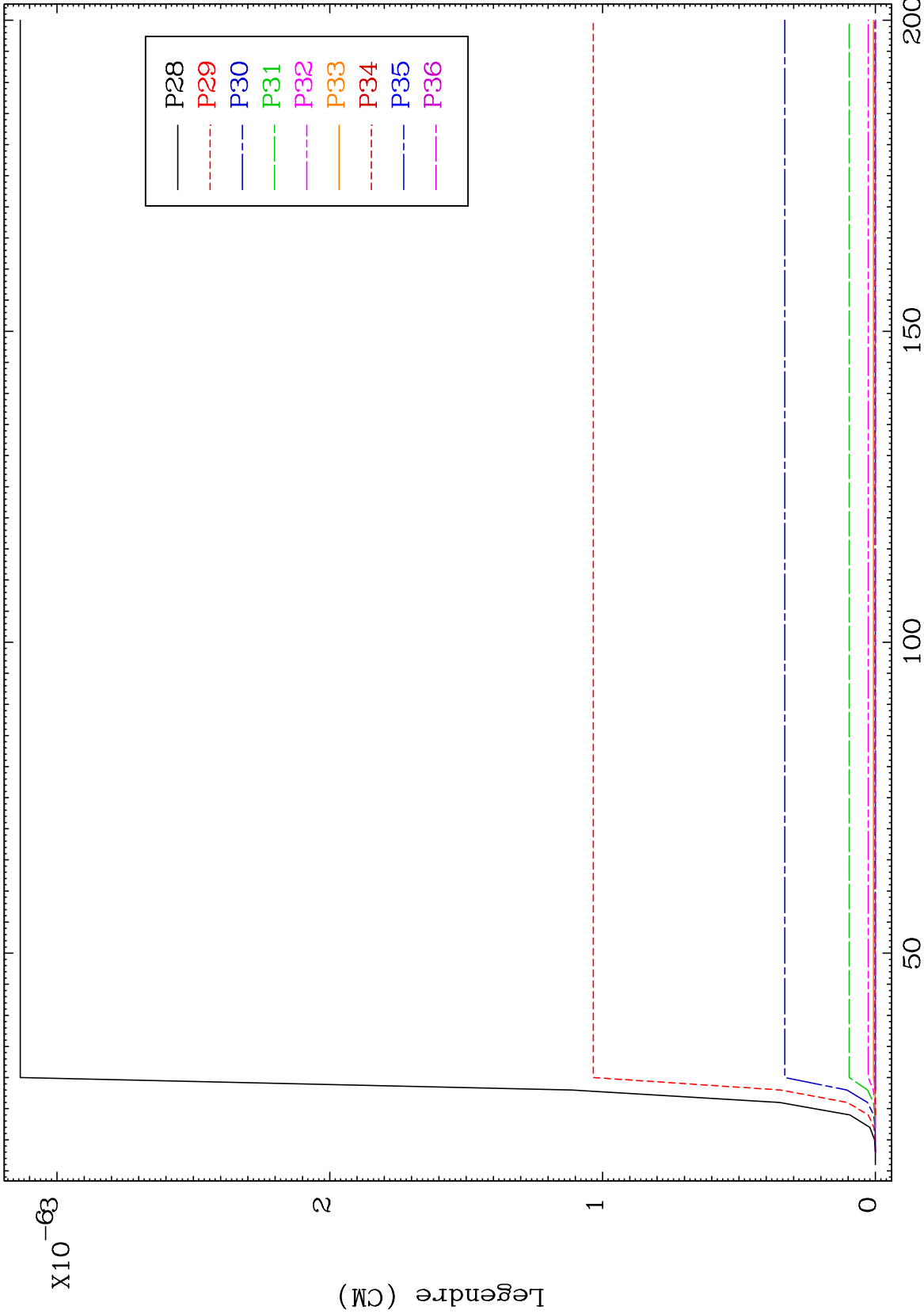
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



103

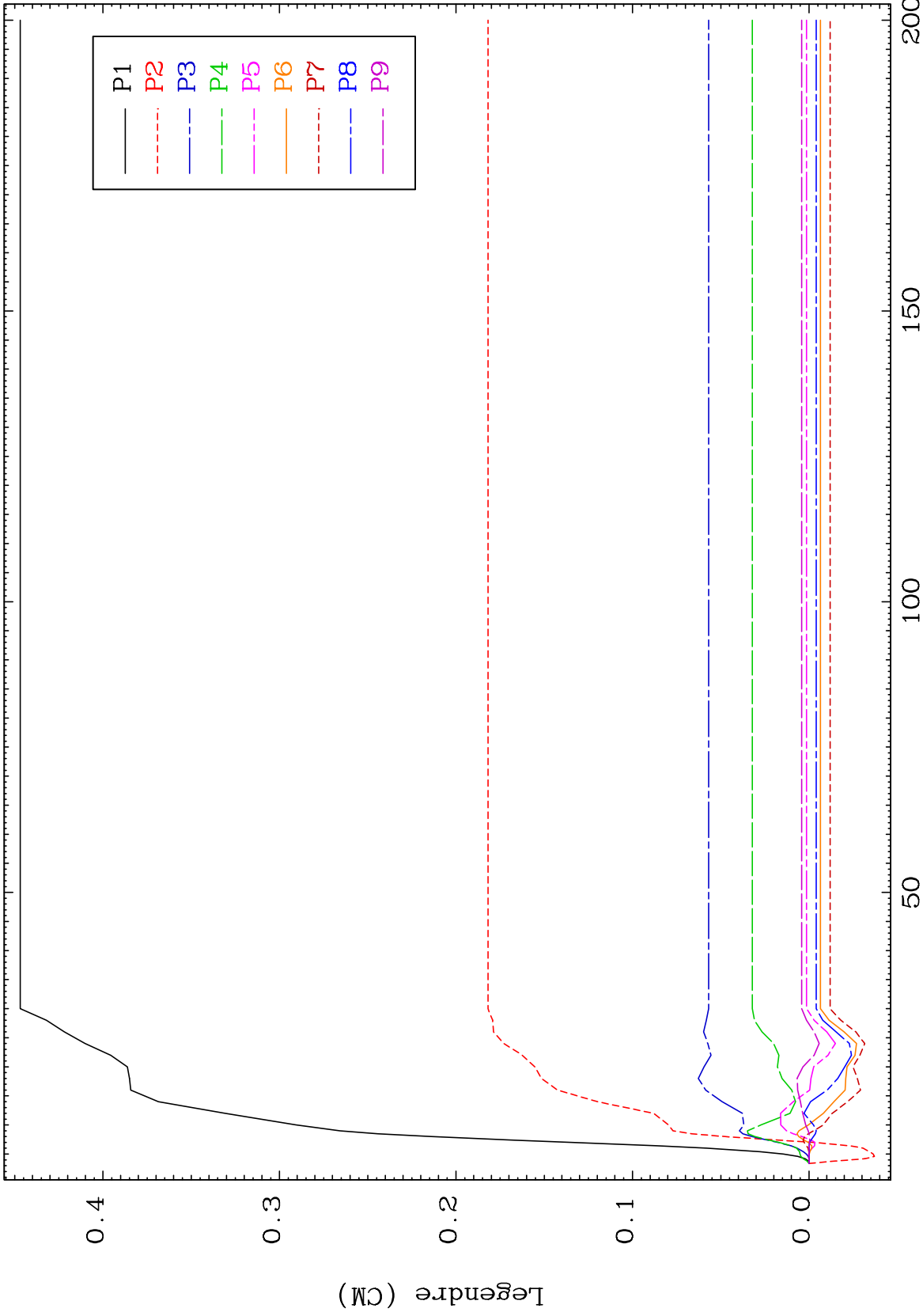
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



104

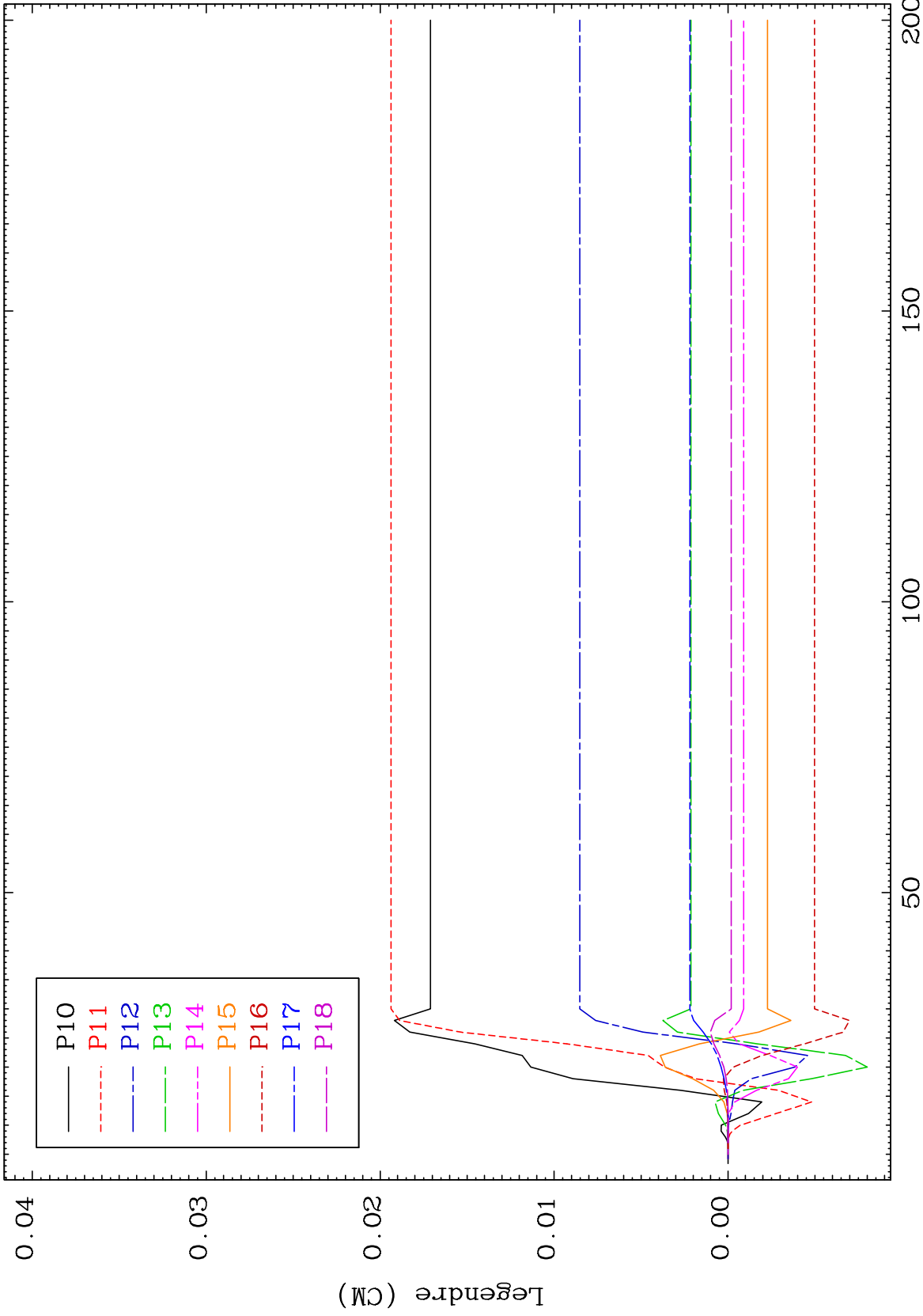
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



105

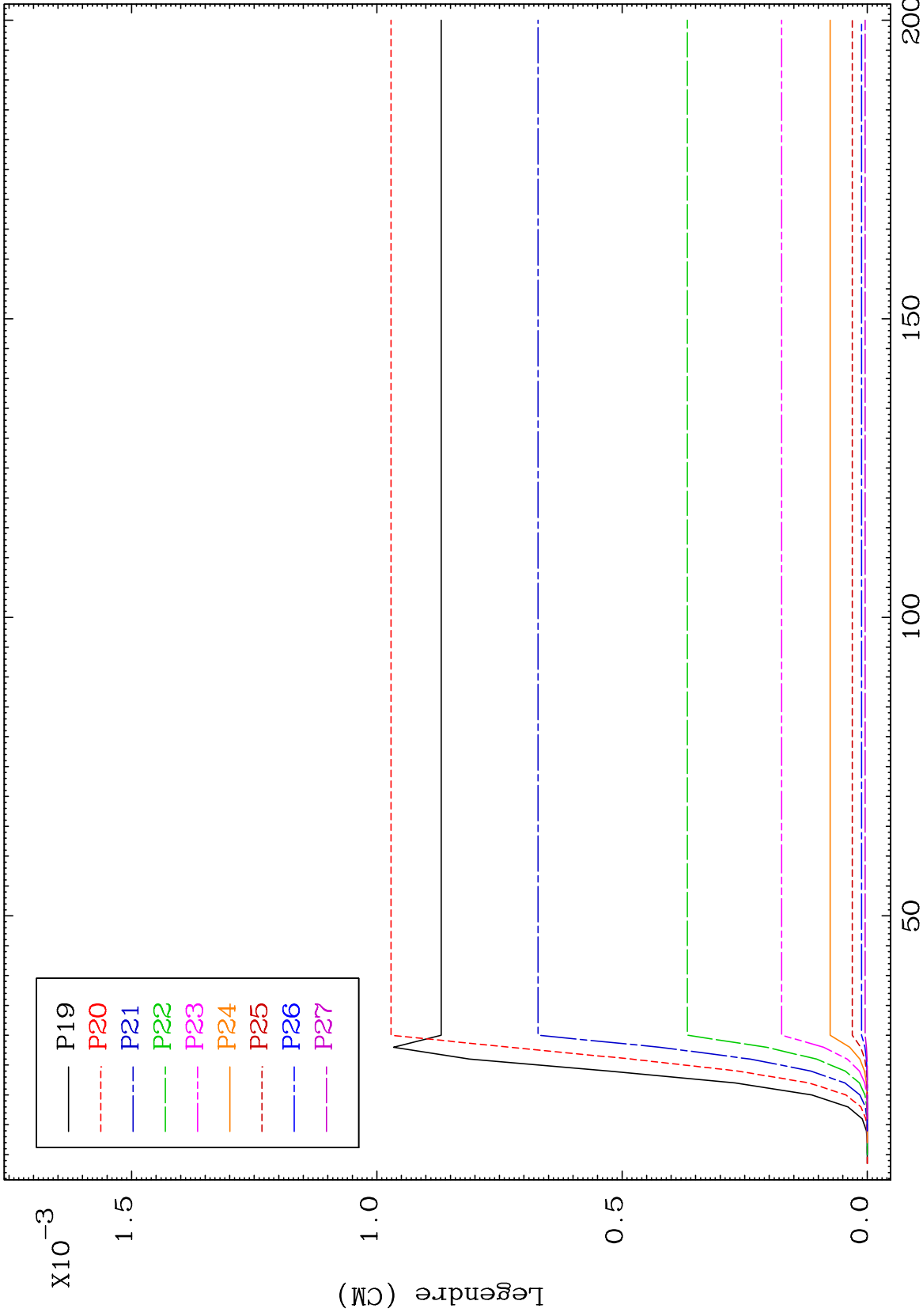
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140

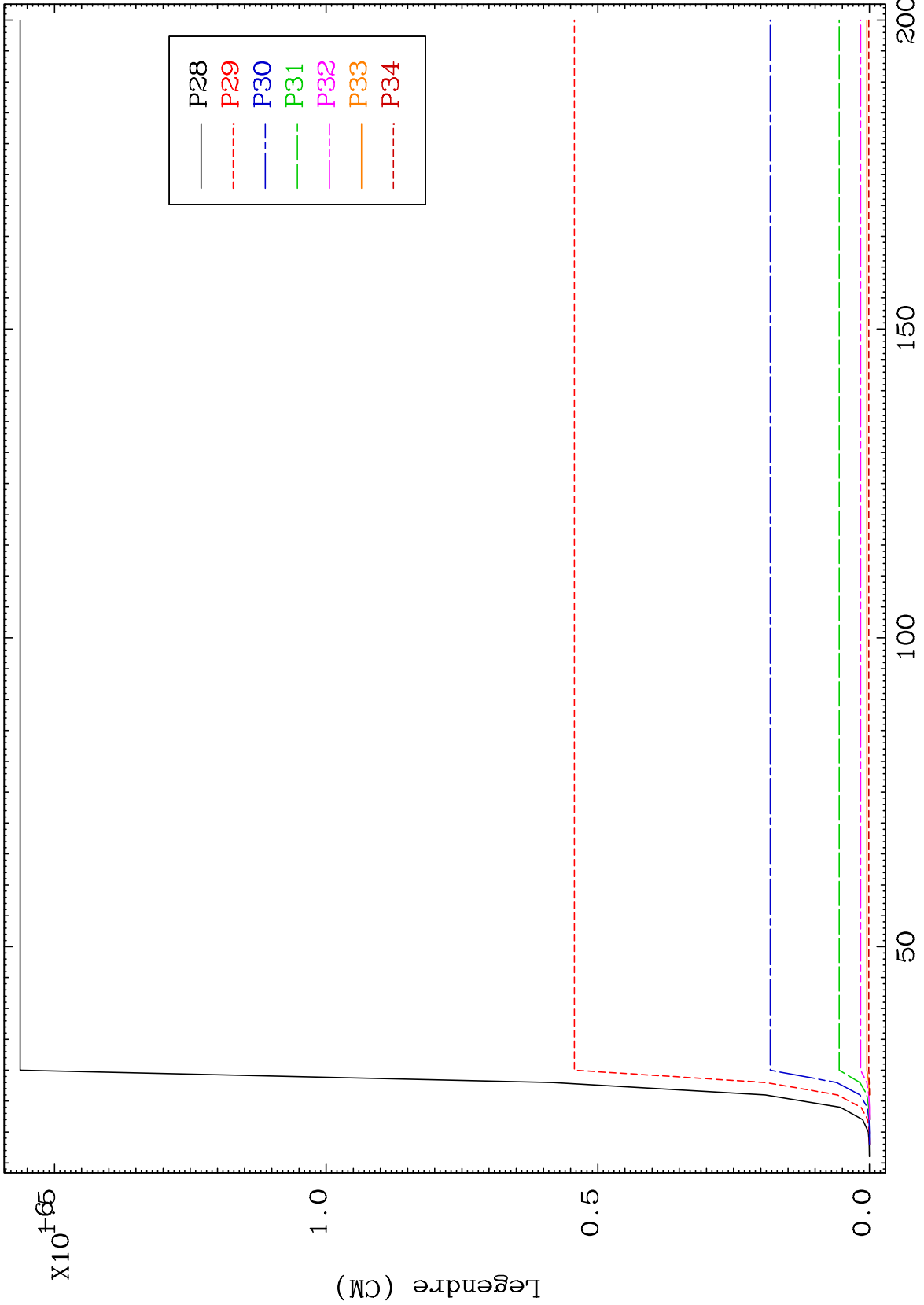


106

MAT 5837

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

58-Ce-140



107

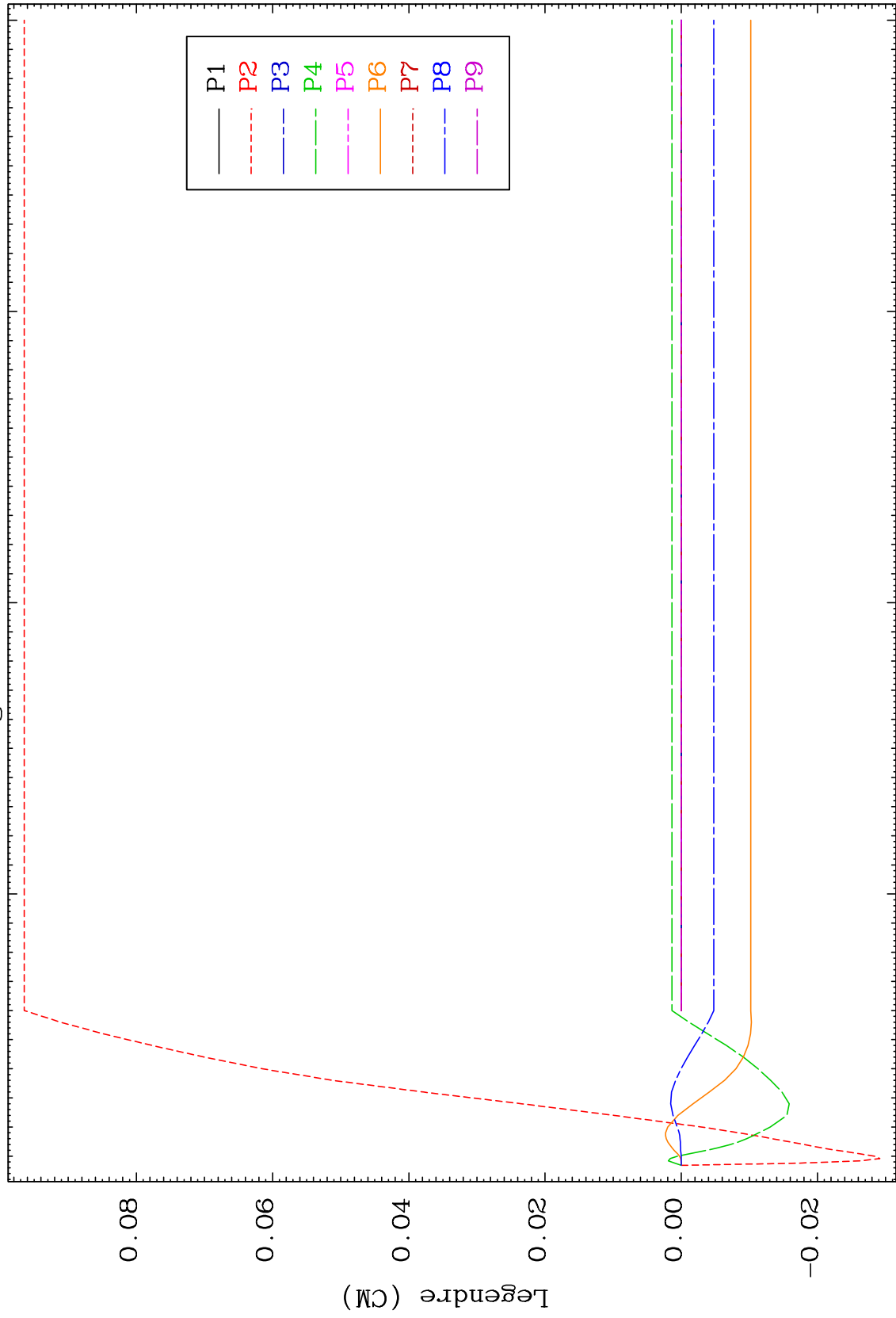
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140

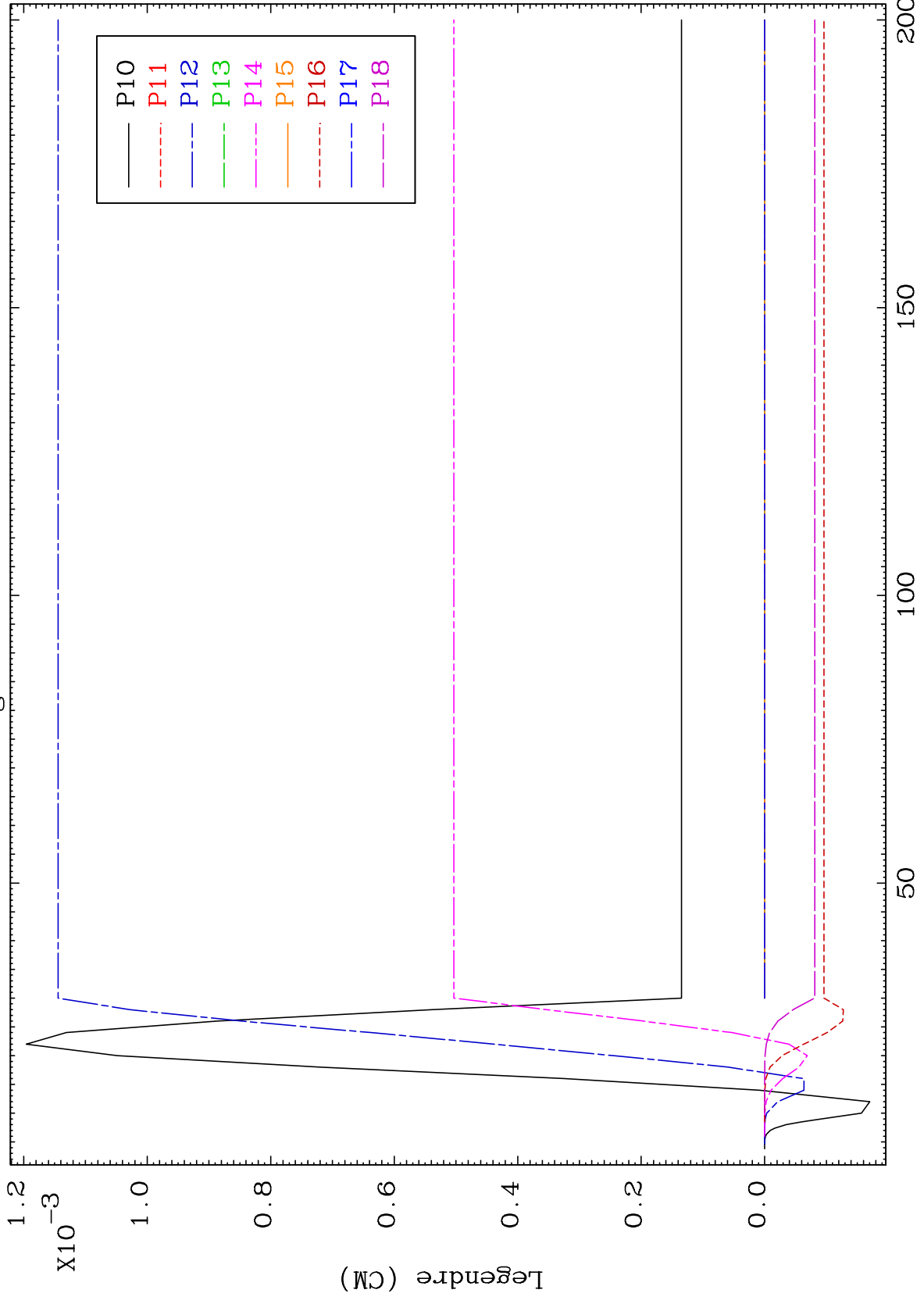


58-Ce-140

Incident Energy (MeV)

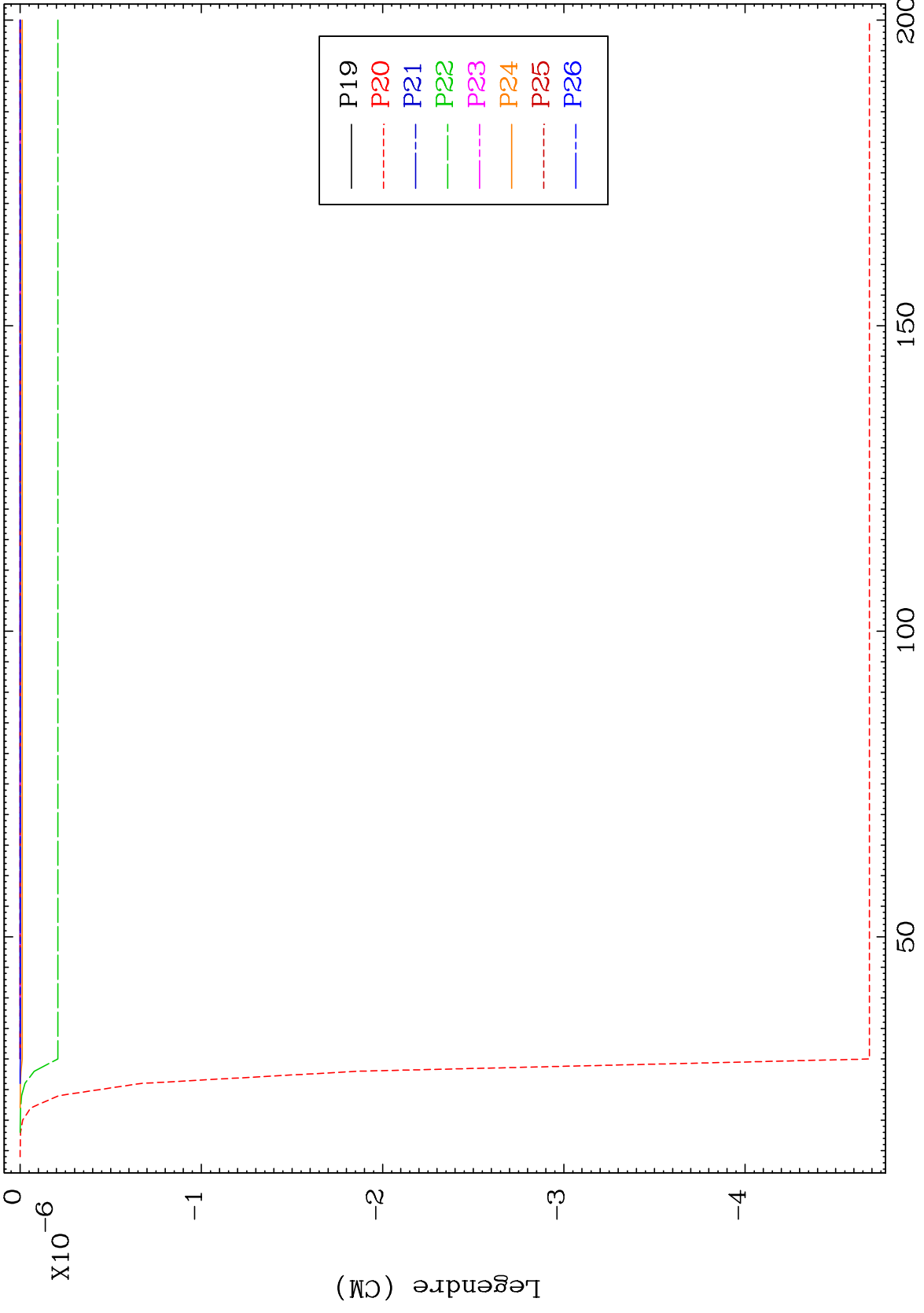
108

MAT 5837 MT= 75 (n,n') Level Legendre Coefficients 58-Ce-140



109 Incident Energy (MeV) 58-Ce-140

MAT 5837 MT= 75 (n,n') Level Legendre Coefficients 58-Ce-140

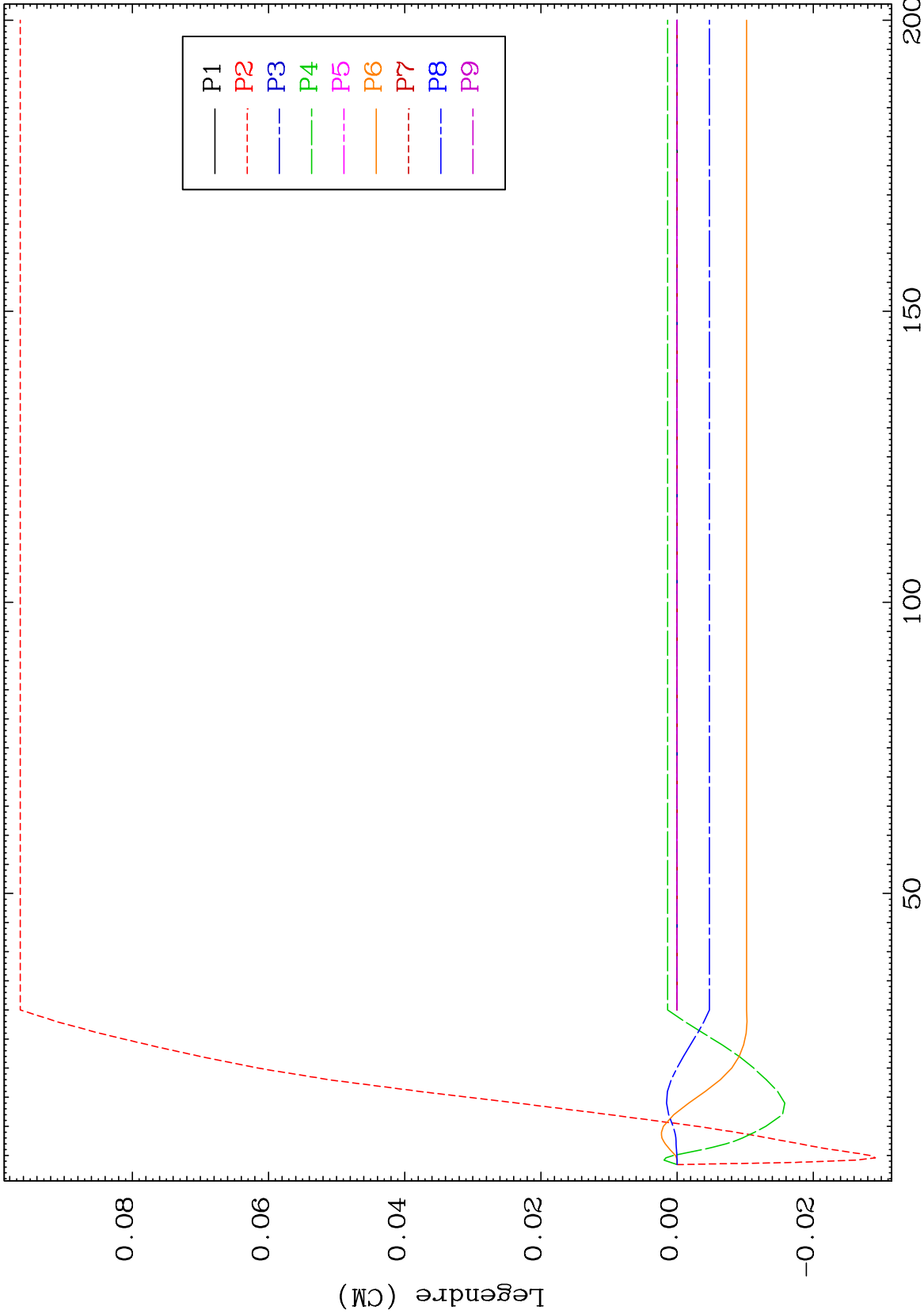


110 Incident Energy (MeV) 58-Ce-140

MAT 5837

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

58-Ce-140

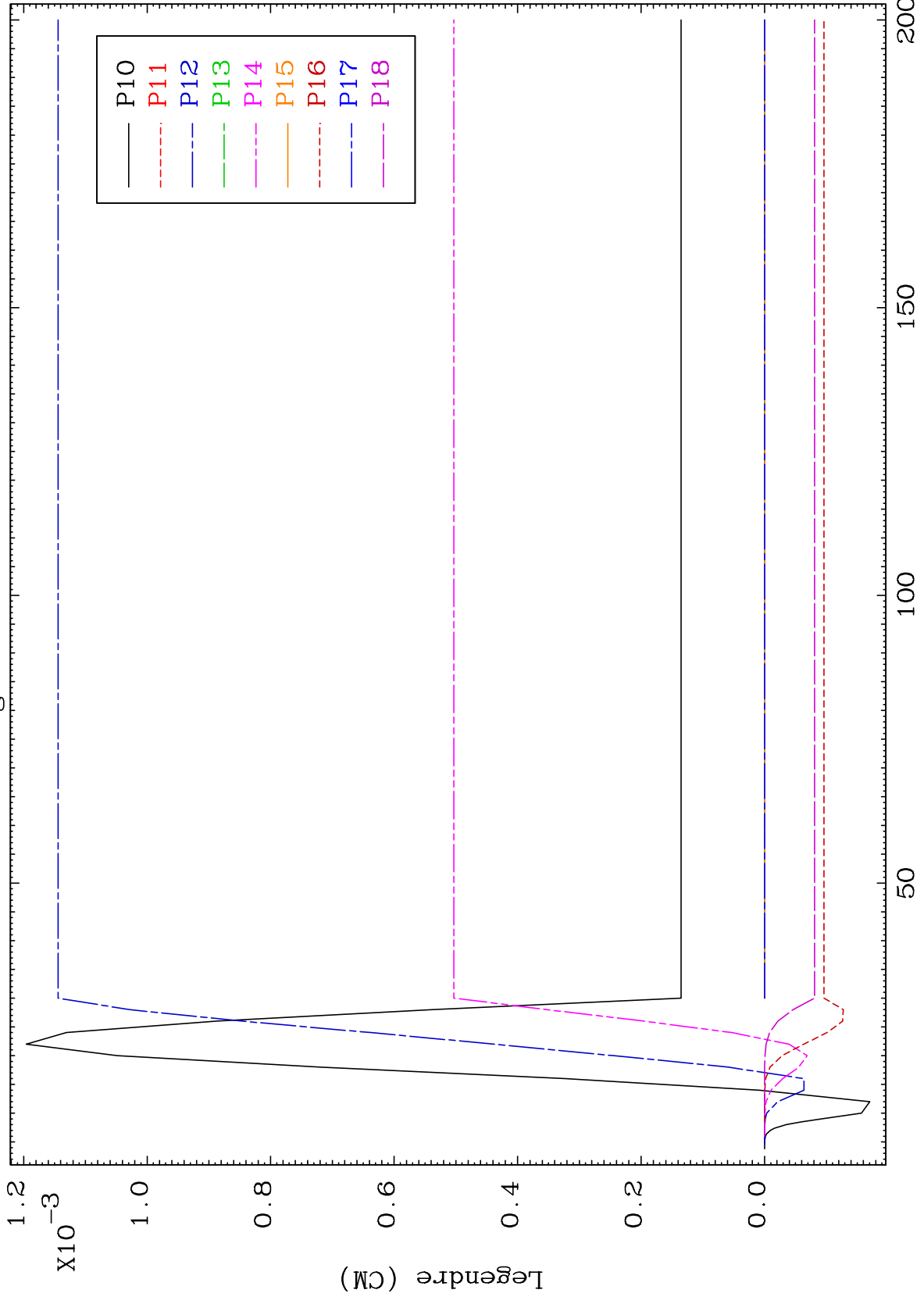


111

Incident Energy (MeV)

58-Ce-140

MAT 5837 MT= 76 (n,n') Level Legendre Coefficients 58-Ce-140

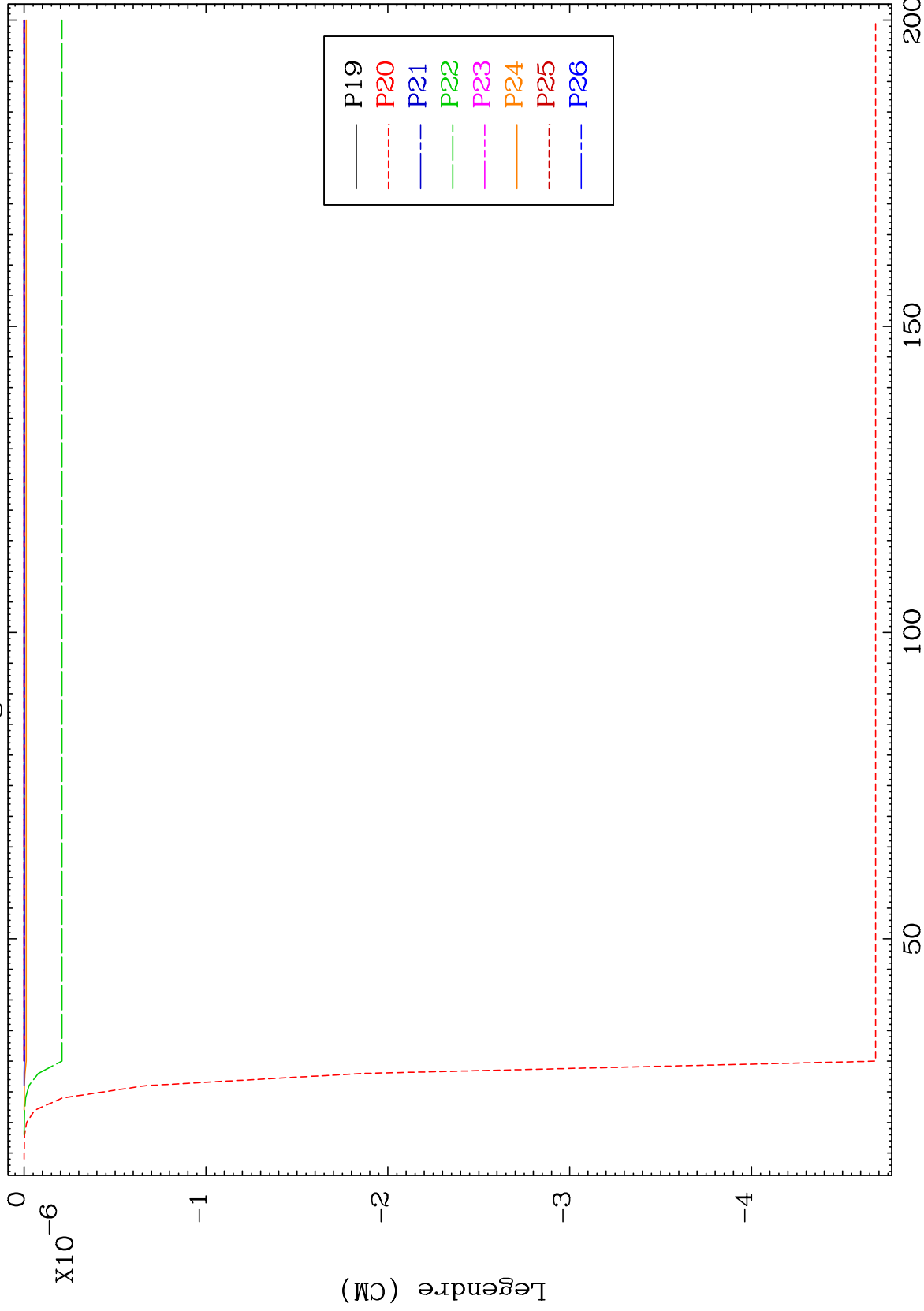


112 58-Ce-140

MAT 5837

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

58-Ce-140



113

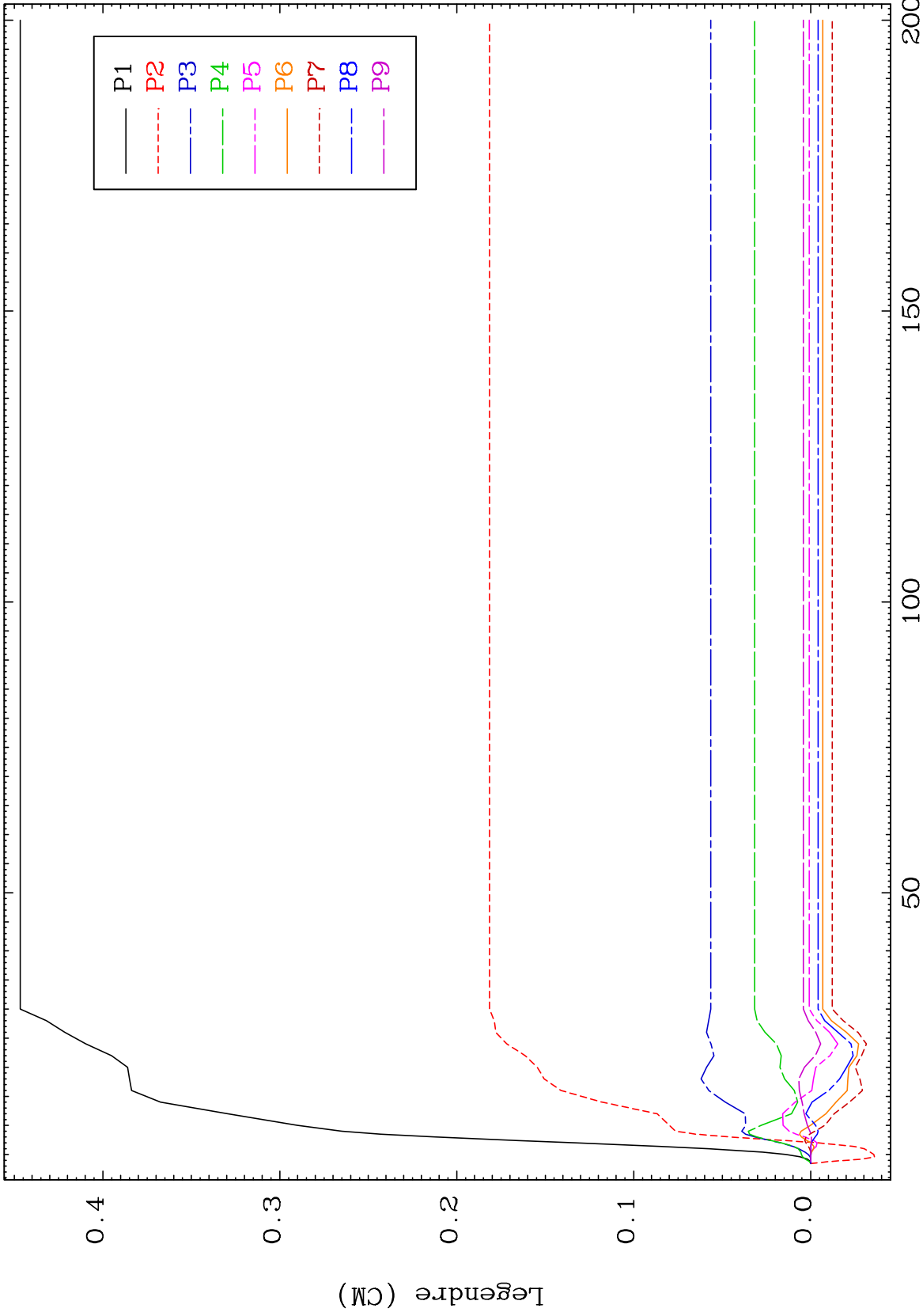
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



114

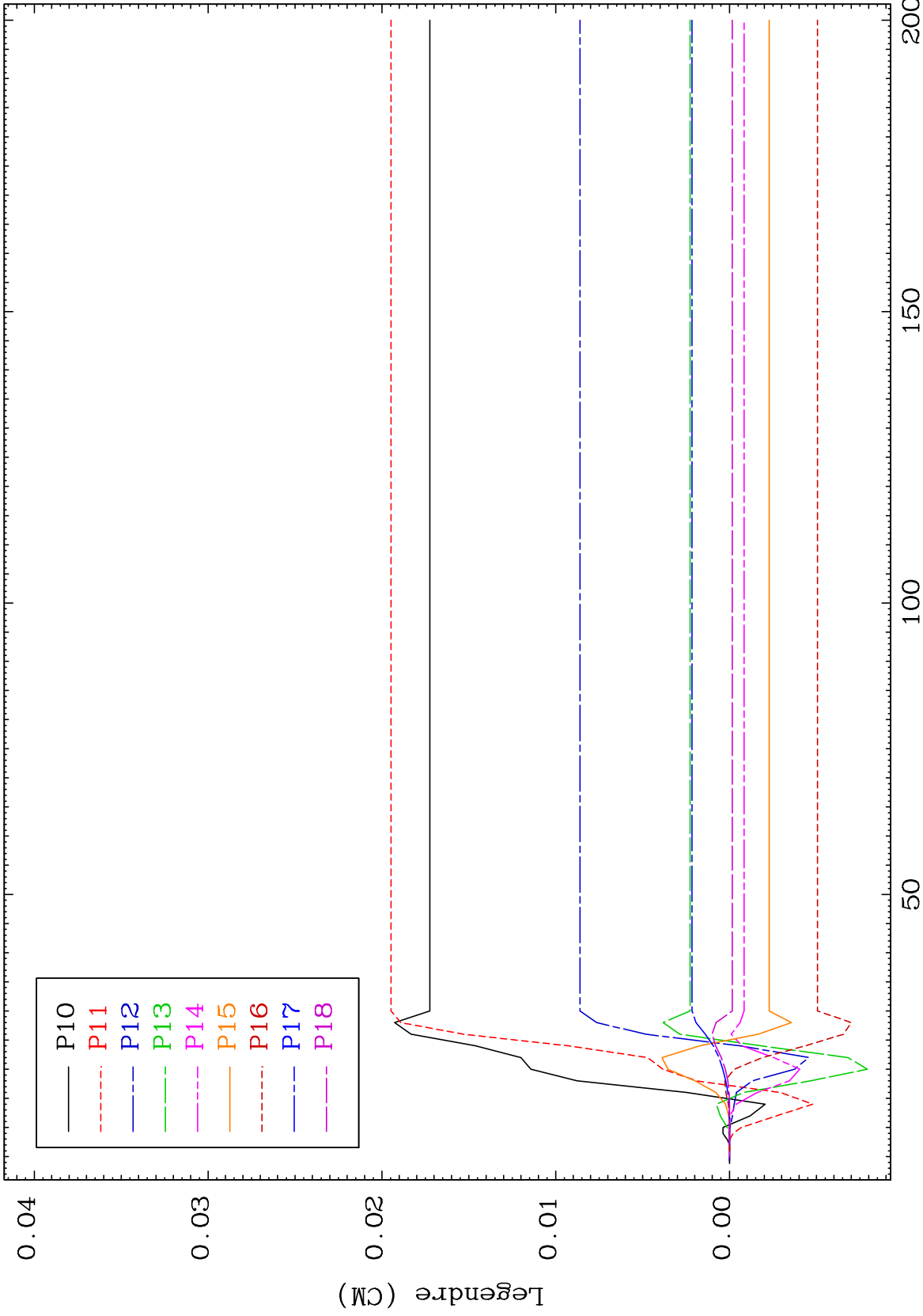
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



115

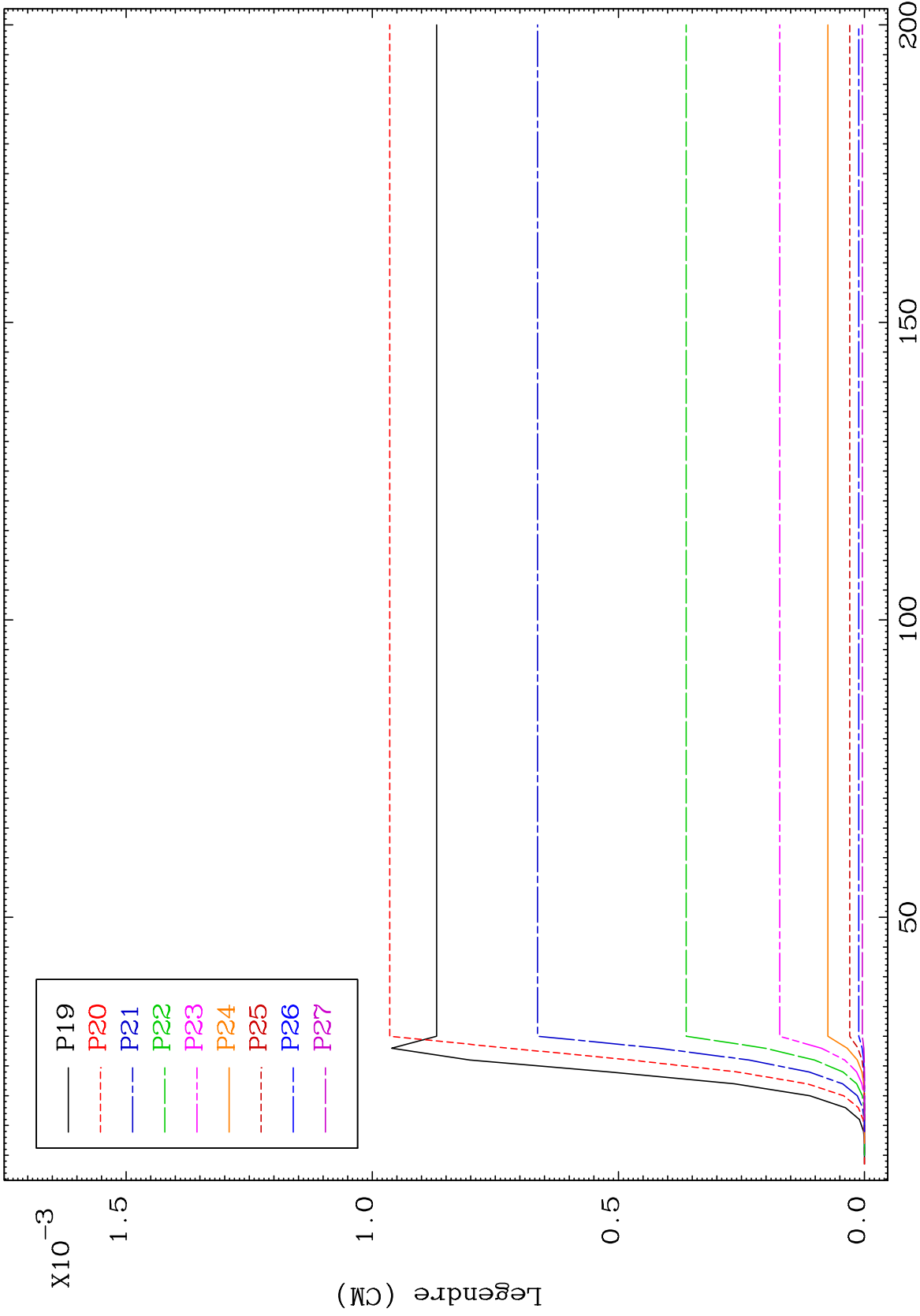
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140

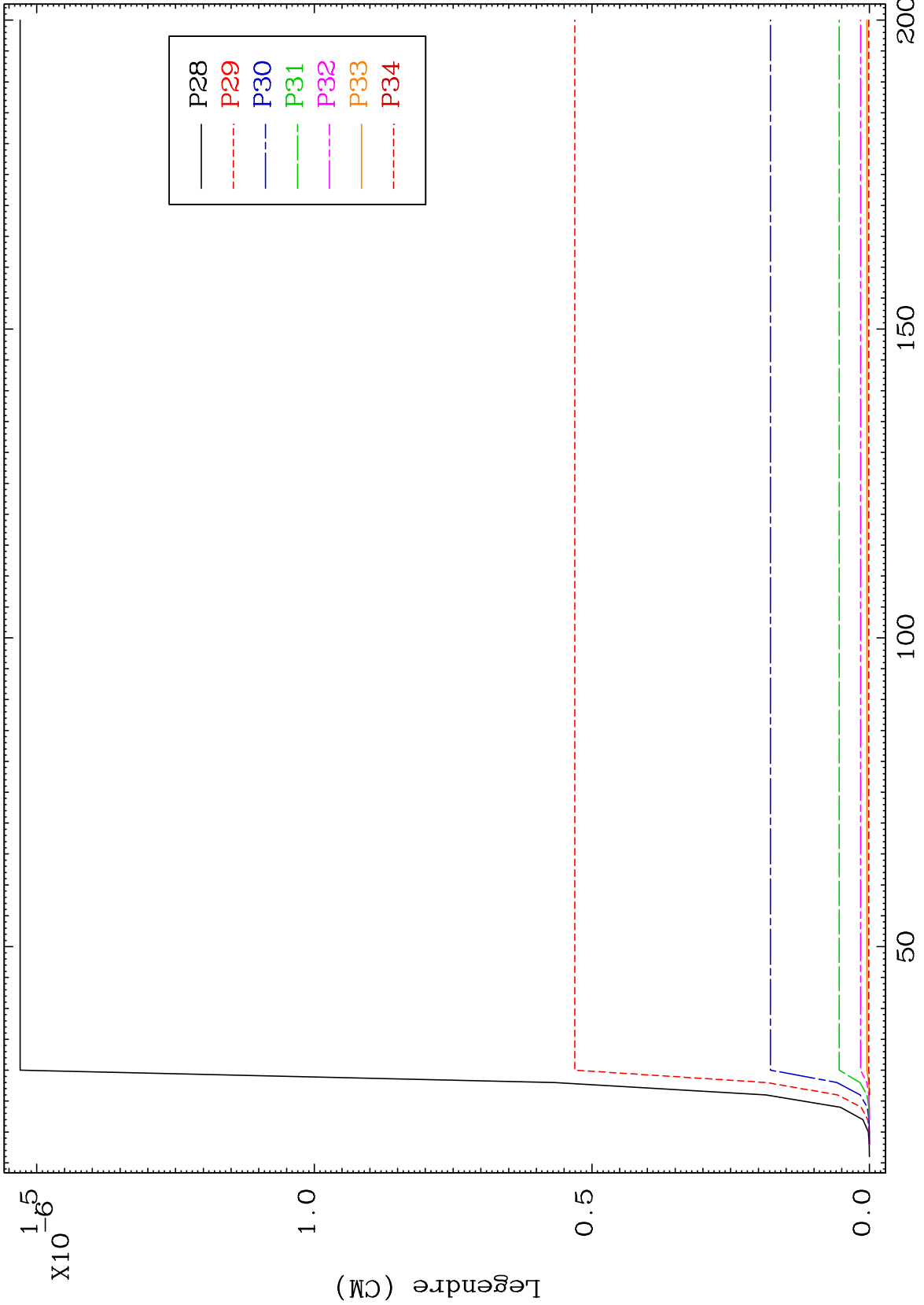


116

MAT 5837

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

58-Ce-140



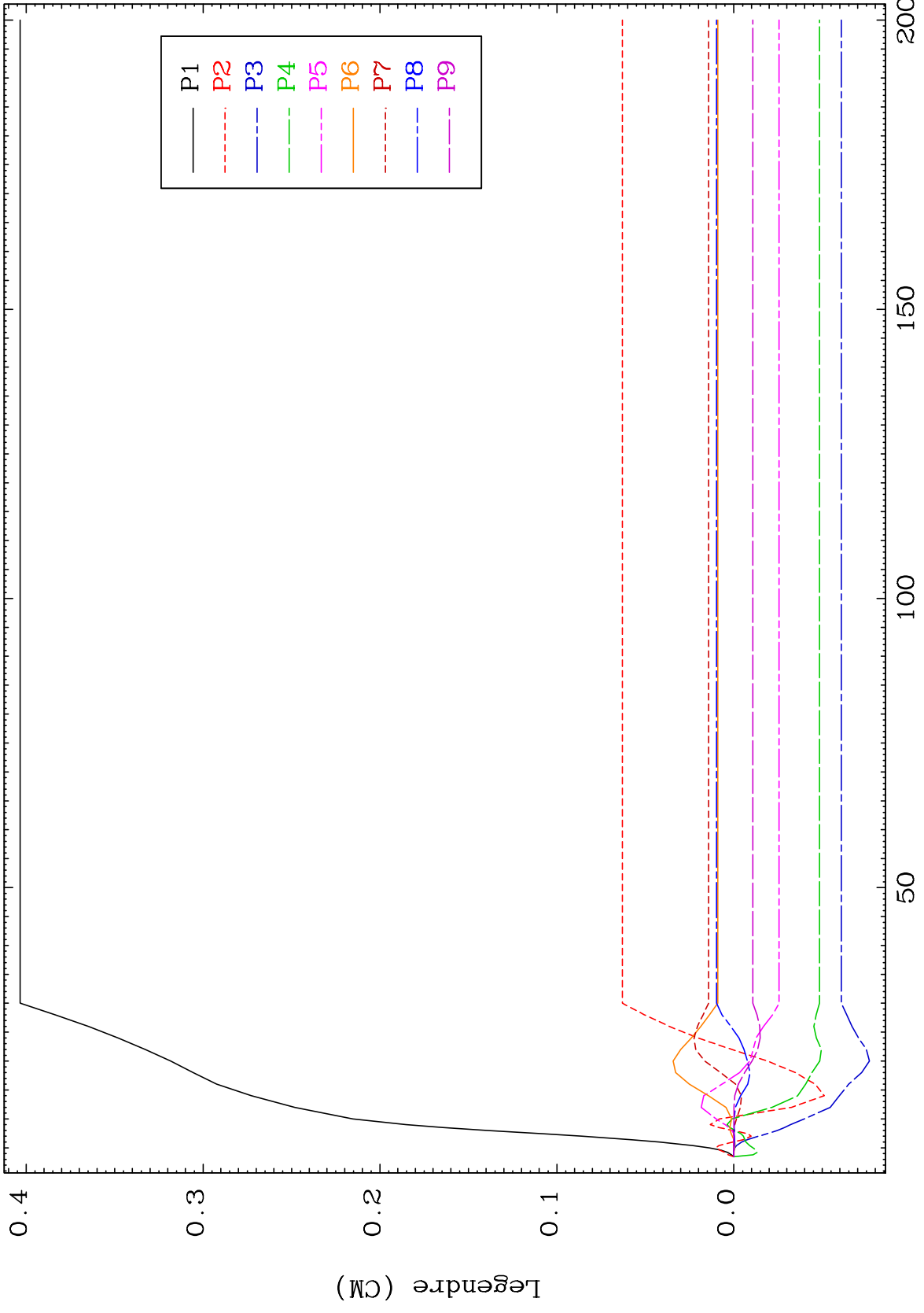
117

58-Ce-140

MAT 5837

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

58-Ce-140



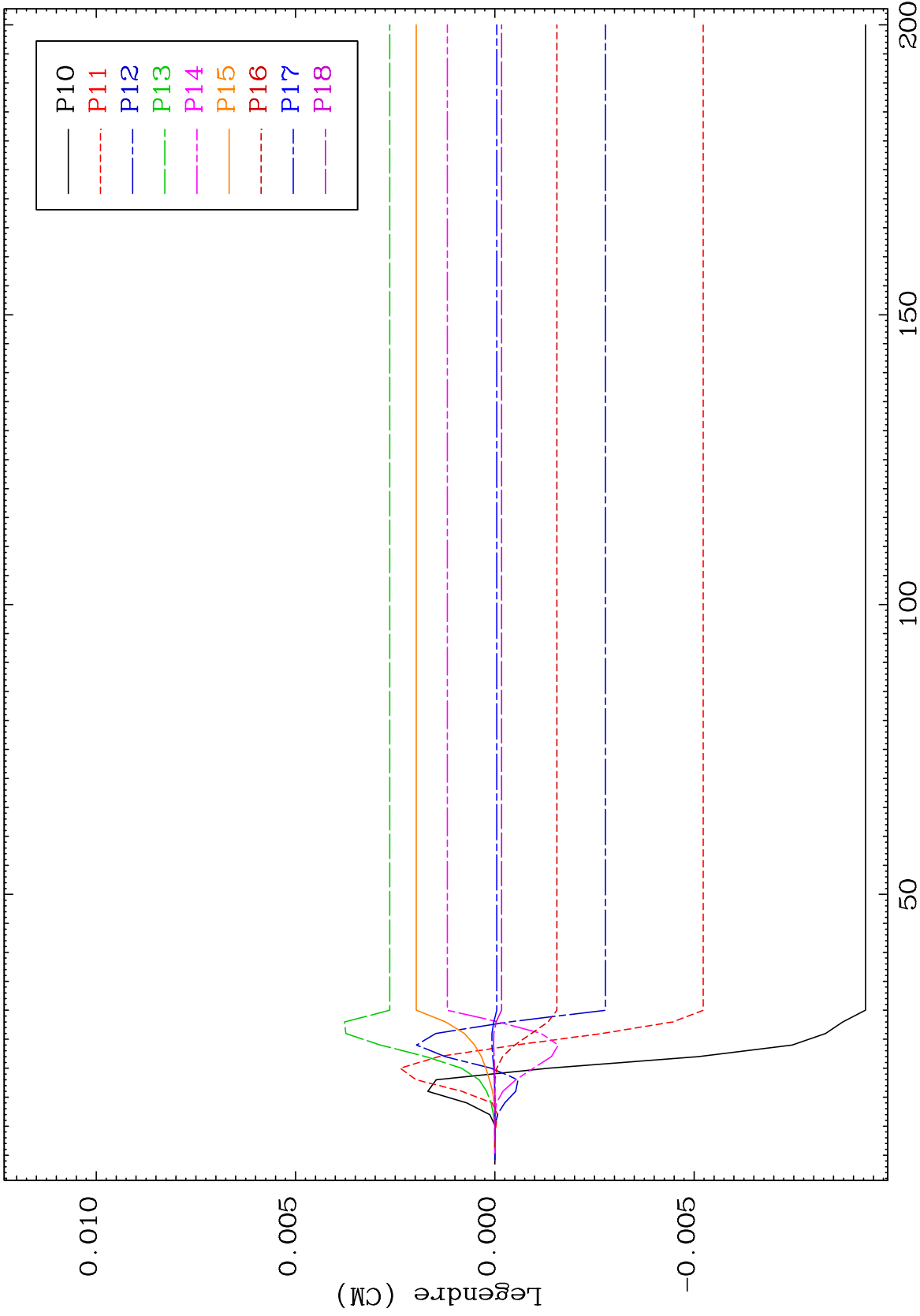
118

58-Ce-140

MAT 5837

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

58-Ce-140



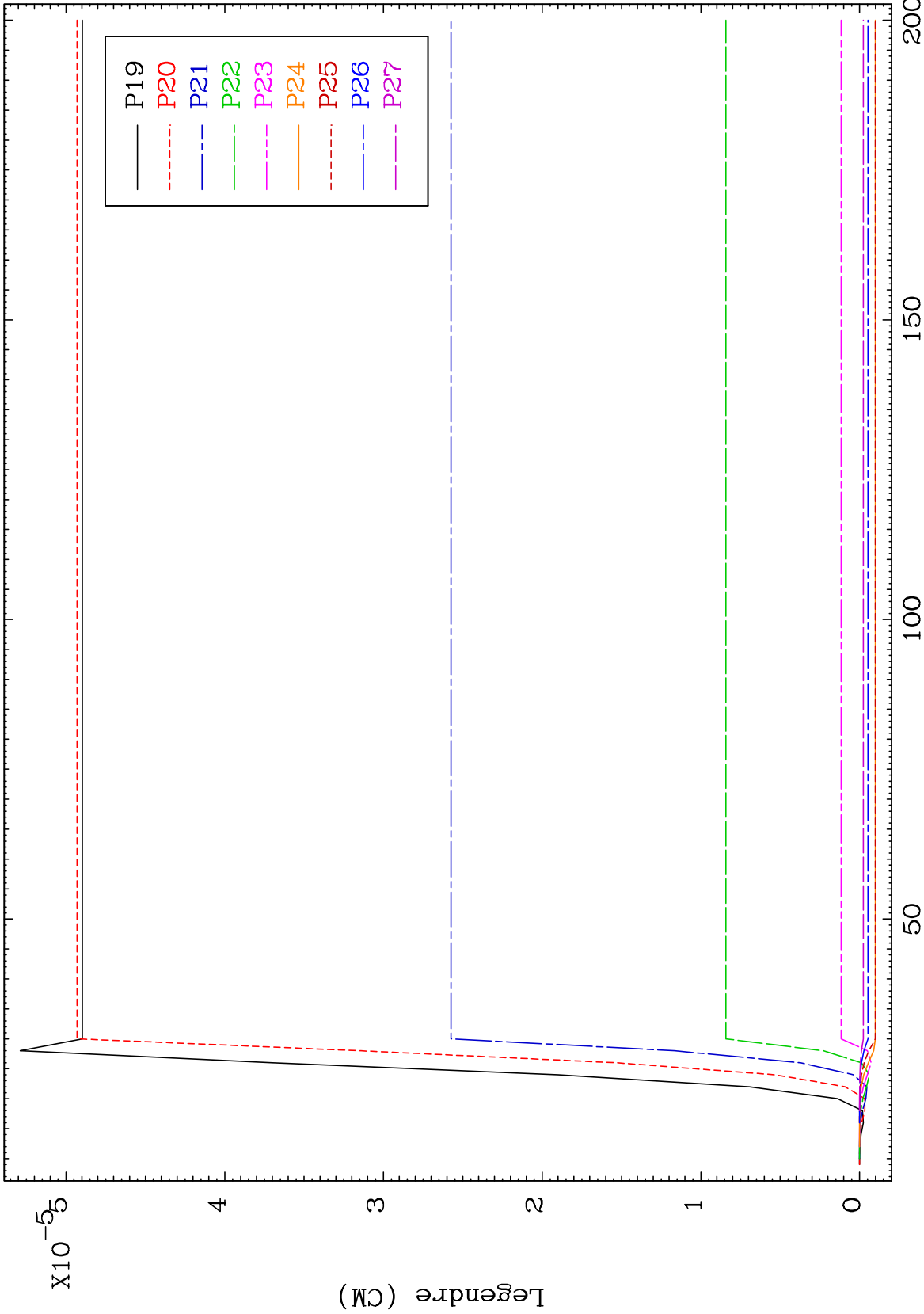
119

58-Ce-140

MAT 5837

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

58-Ce-140



58-Ce-140

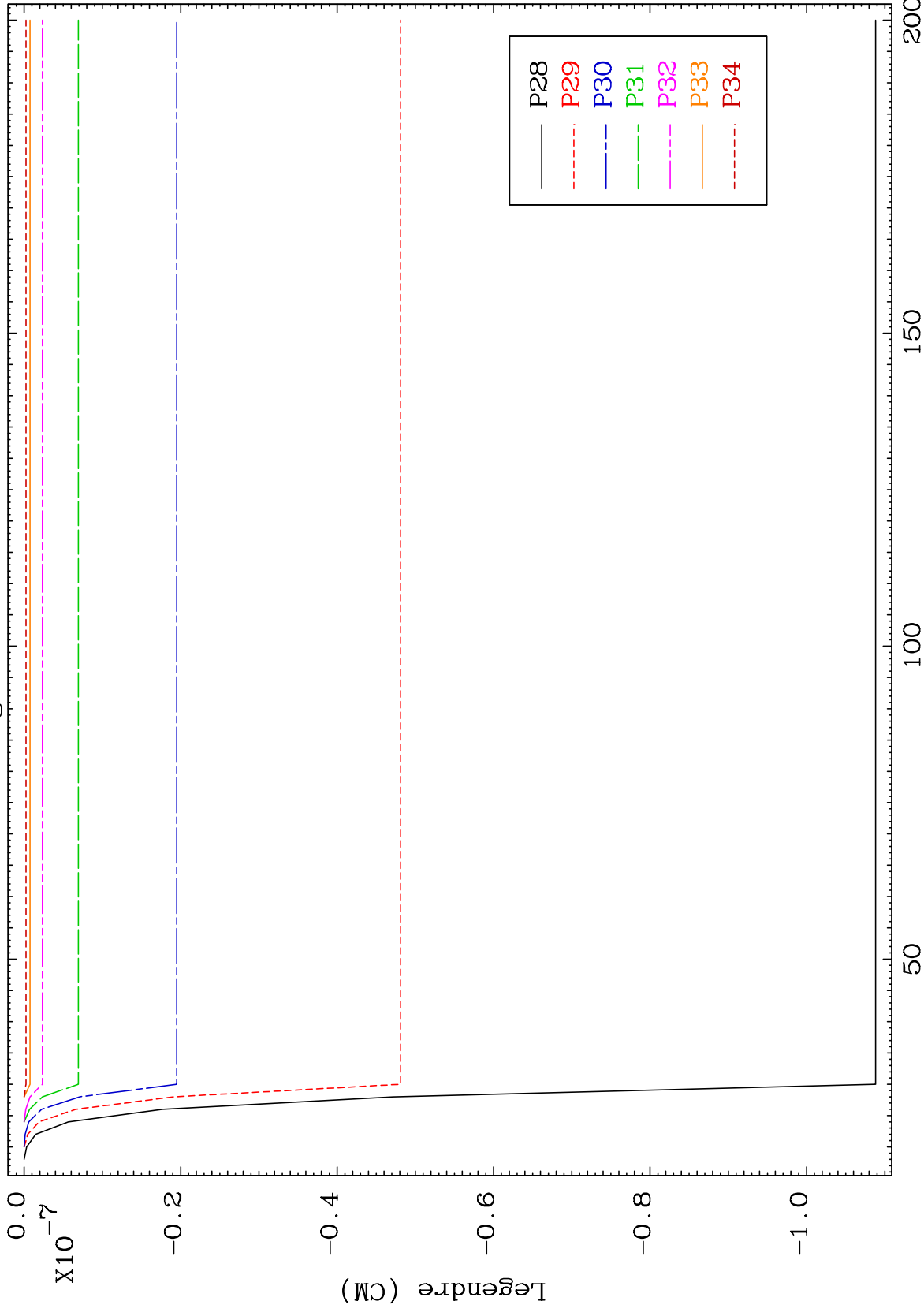
Incident Energy (MeV)

120

MAT 5837

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

58-Ce-140



58-Ce-140

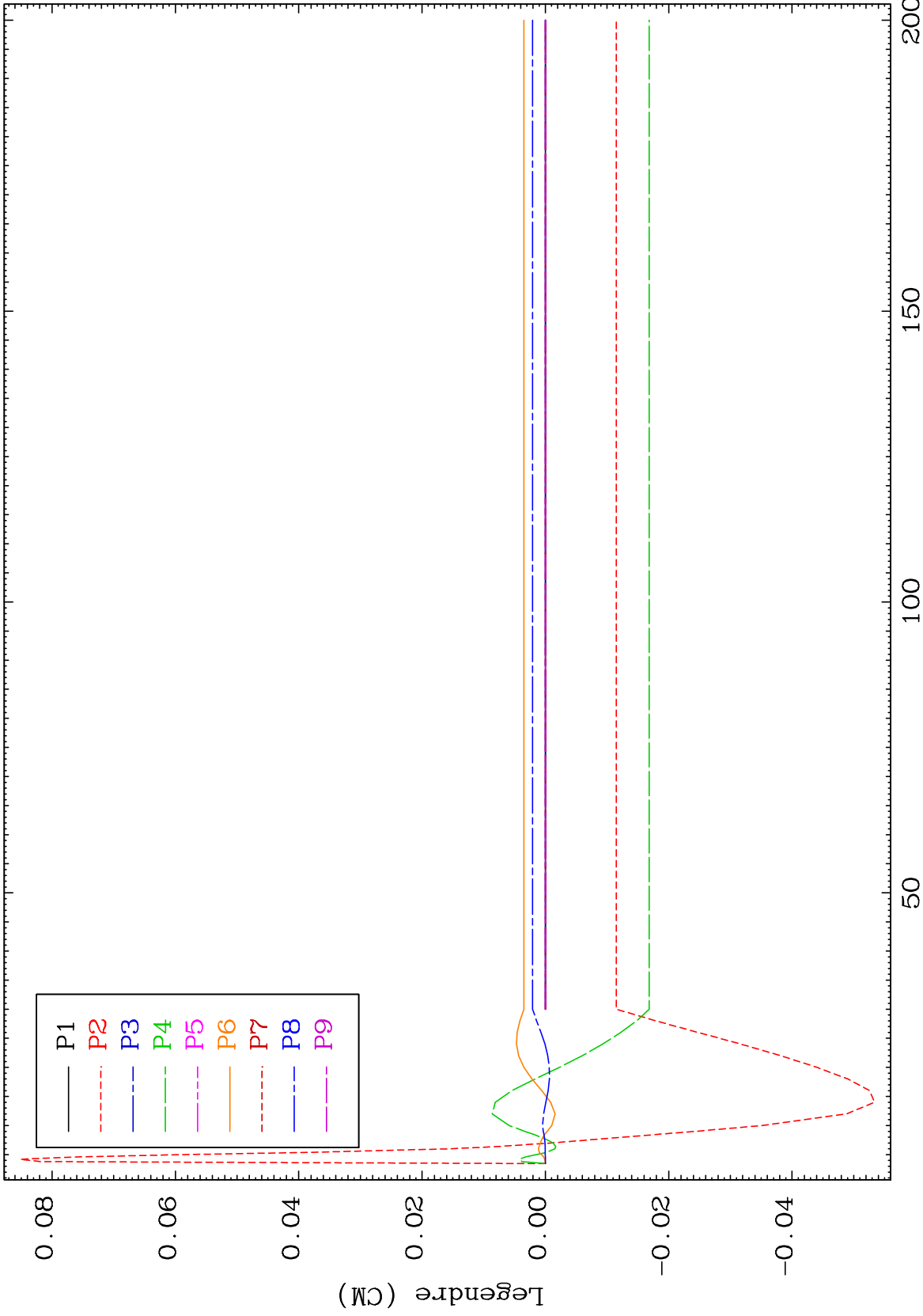
Incident Energy (MeV)

121

MAT 5837

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

58-Ce-140



122

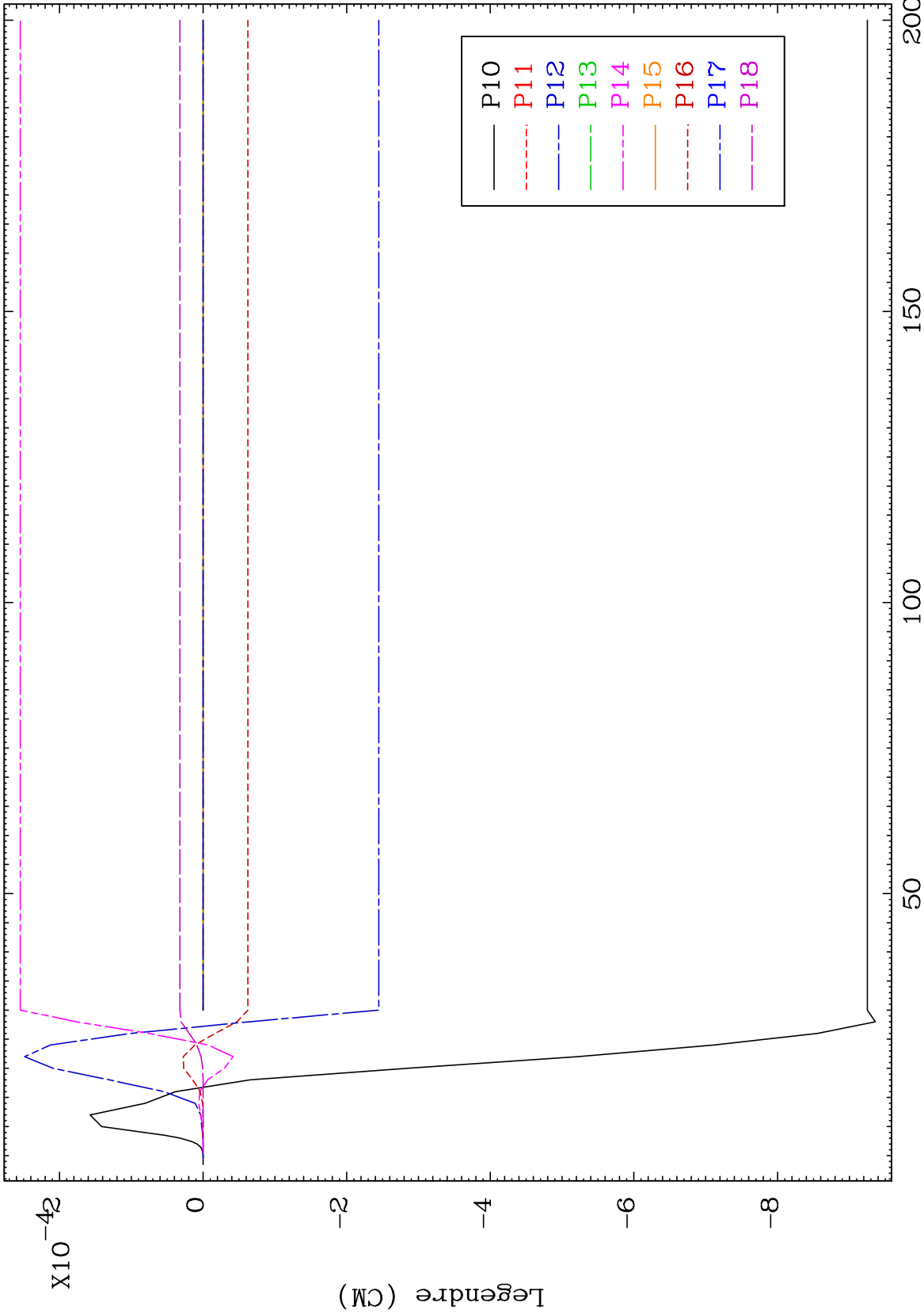
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

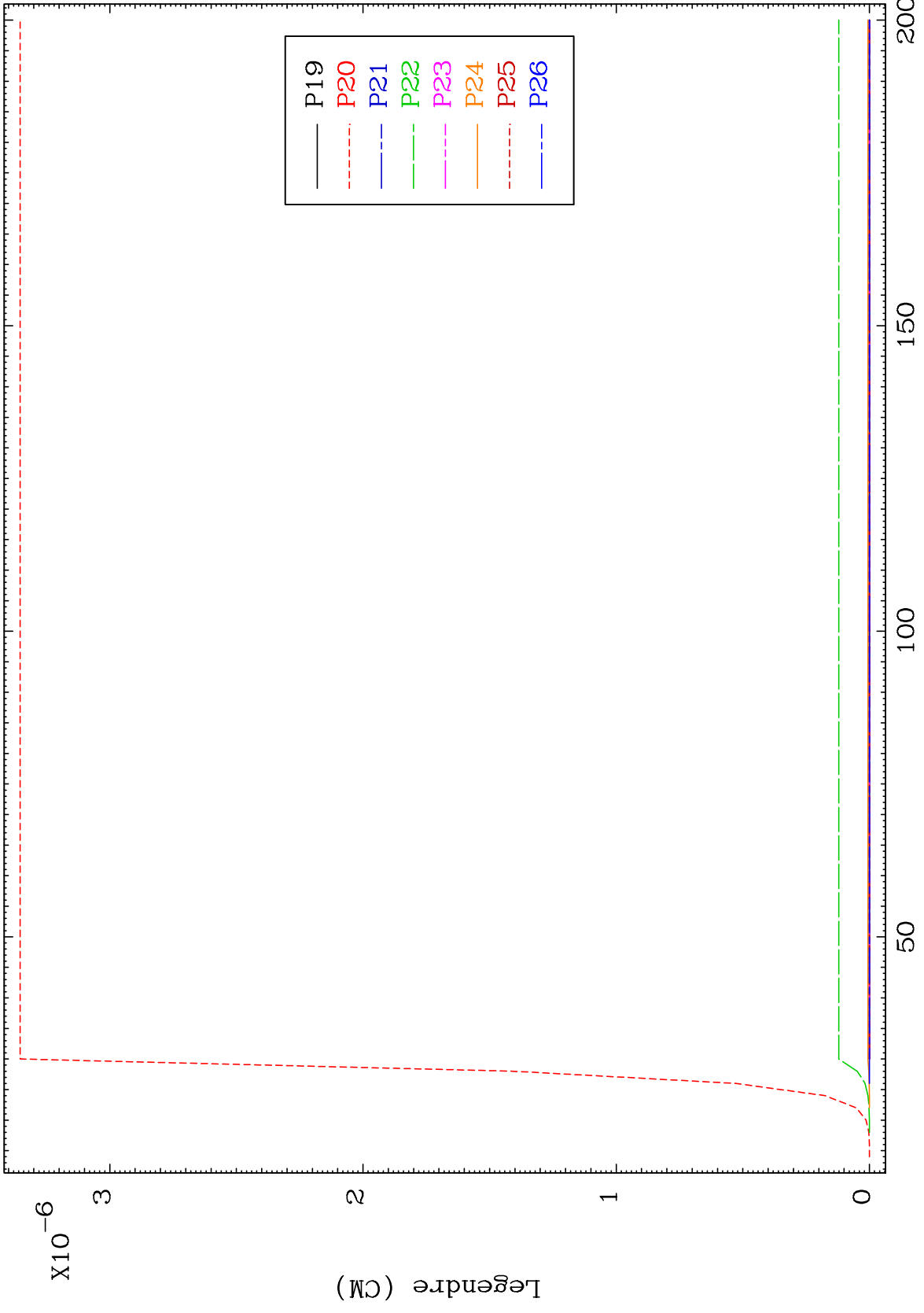
58-Ce-140



MAT 5837

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

58-Ce-140



124

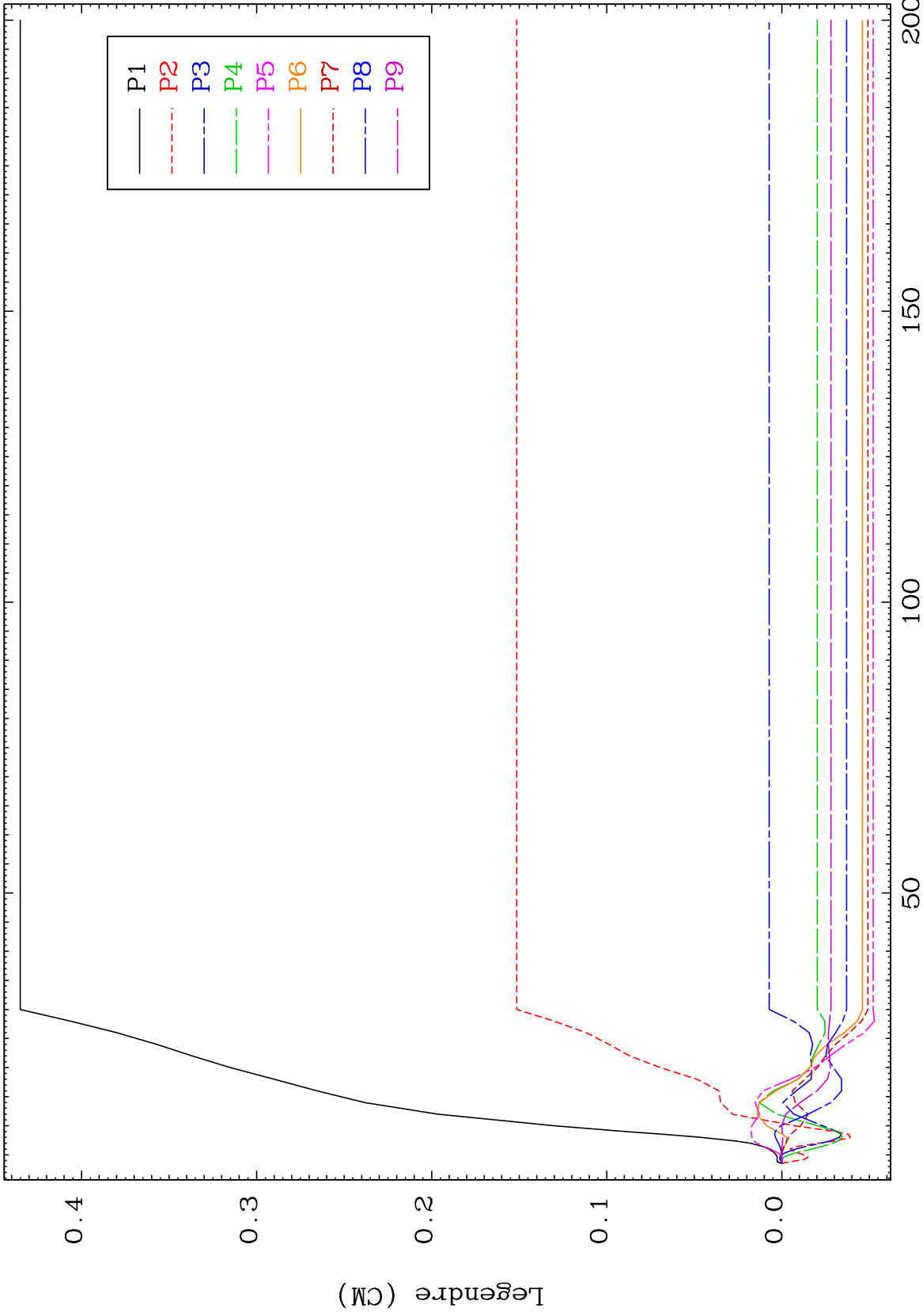
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



125

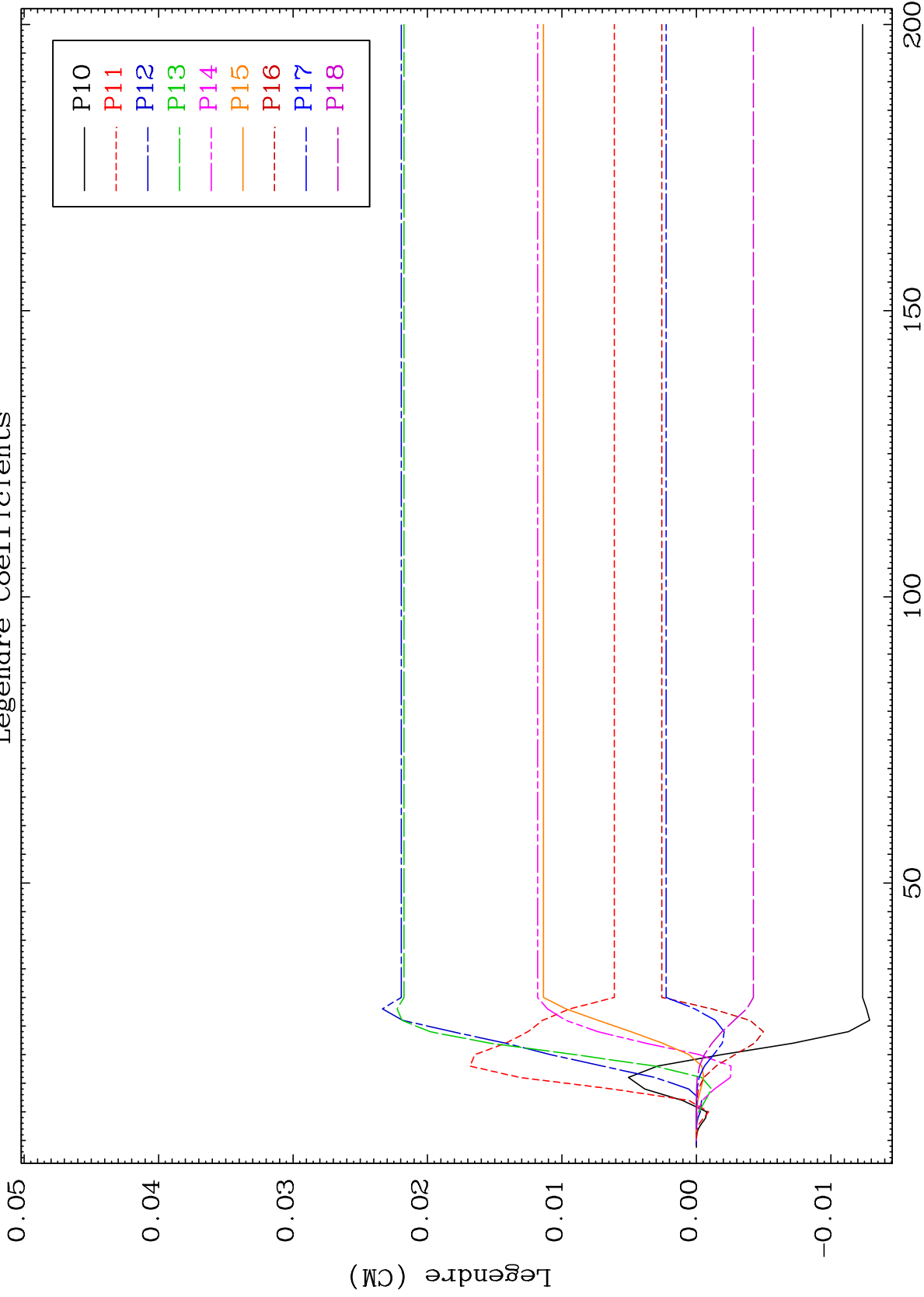
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



126

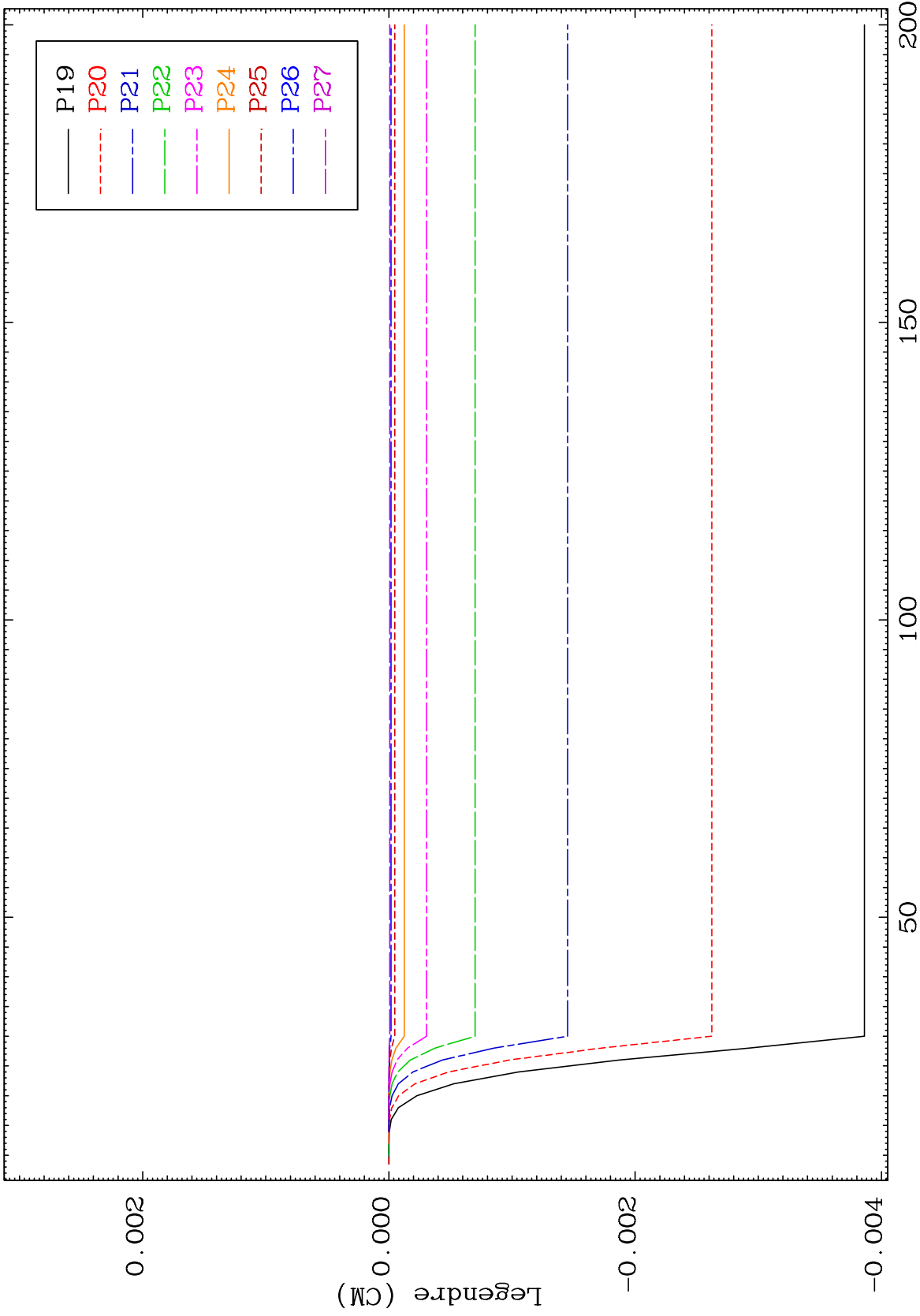
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



127

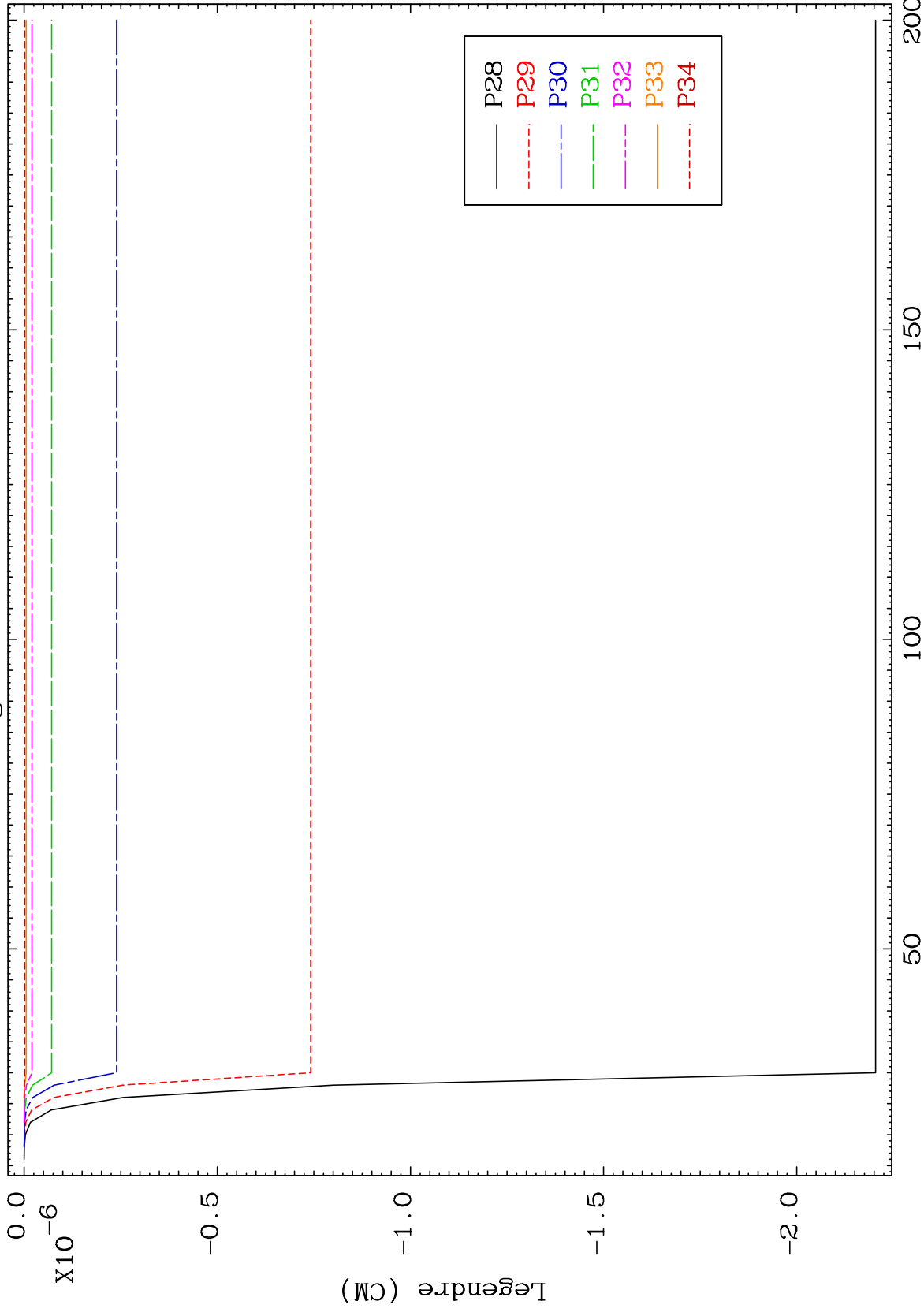
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



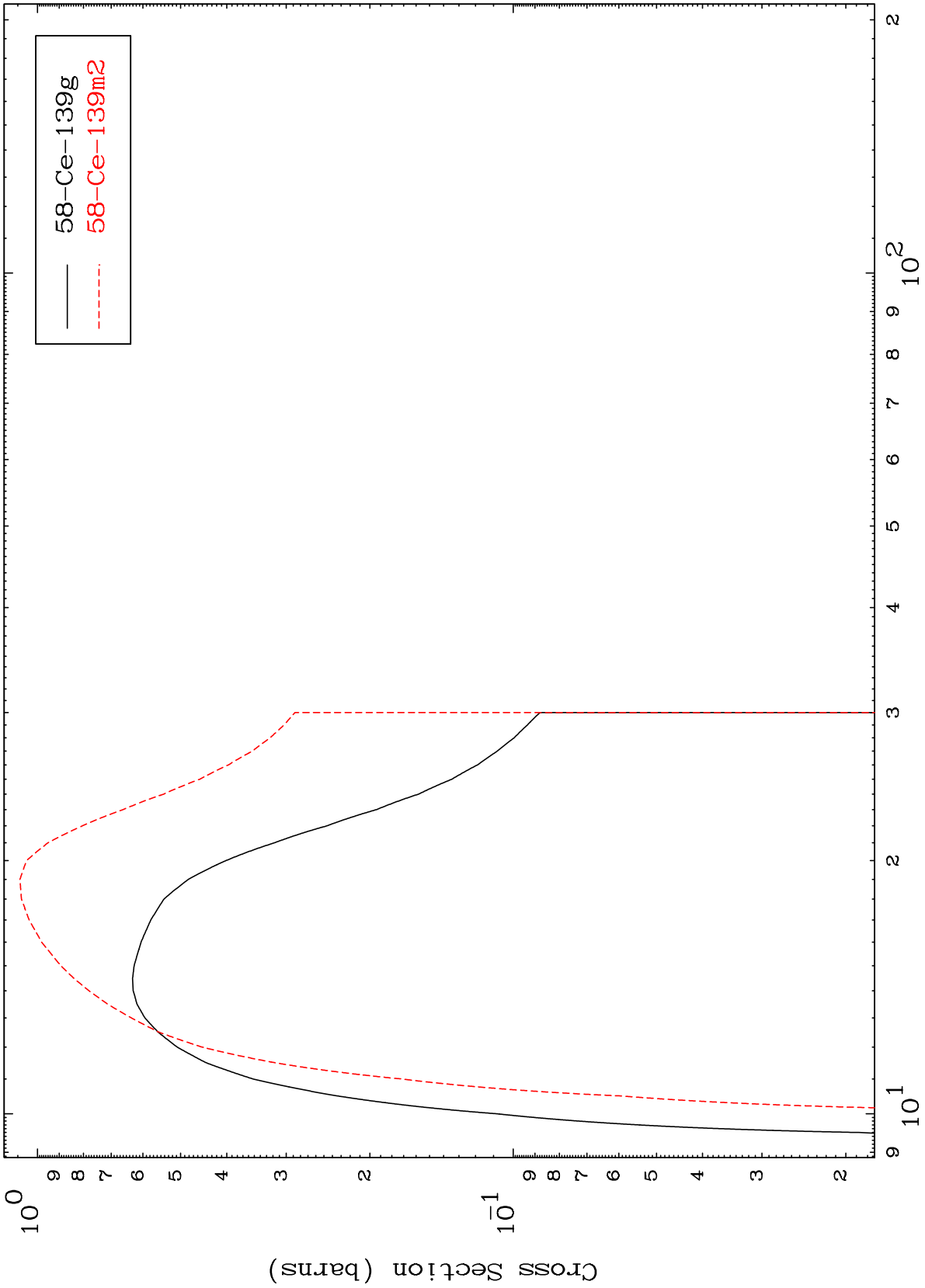
128

58-Ce-140

MAT 5837

58-Ce-140

(n,2n)
Radionuclide Production Cross Section



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

58-Ce-140

Incident Energy (MeV)

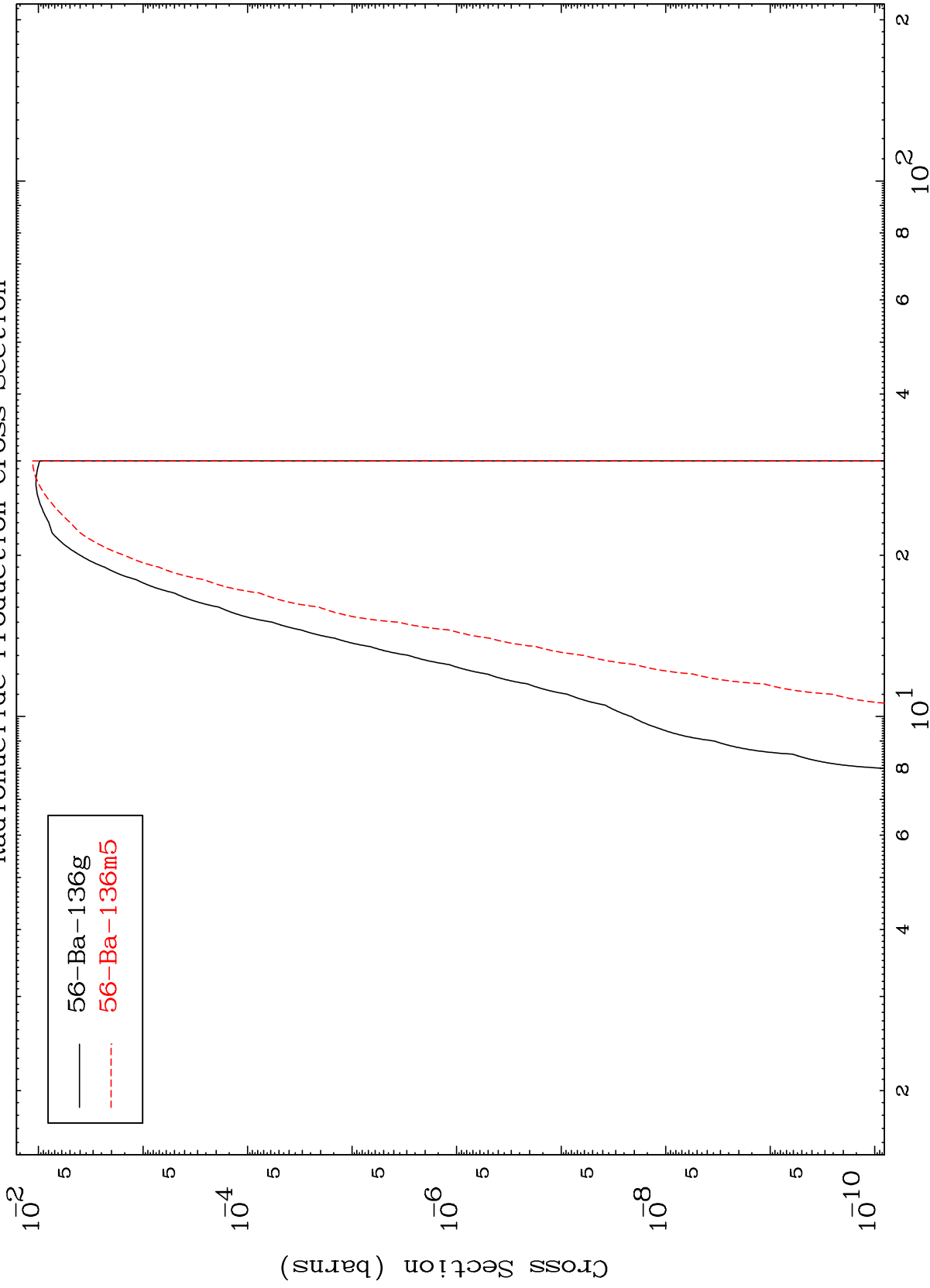
129

MAT 5837

(n,n') α

58-Ce-140

Radionuclide Production Cross Section



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

130

Incident Energy (MeV)

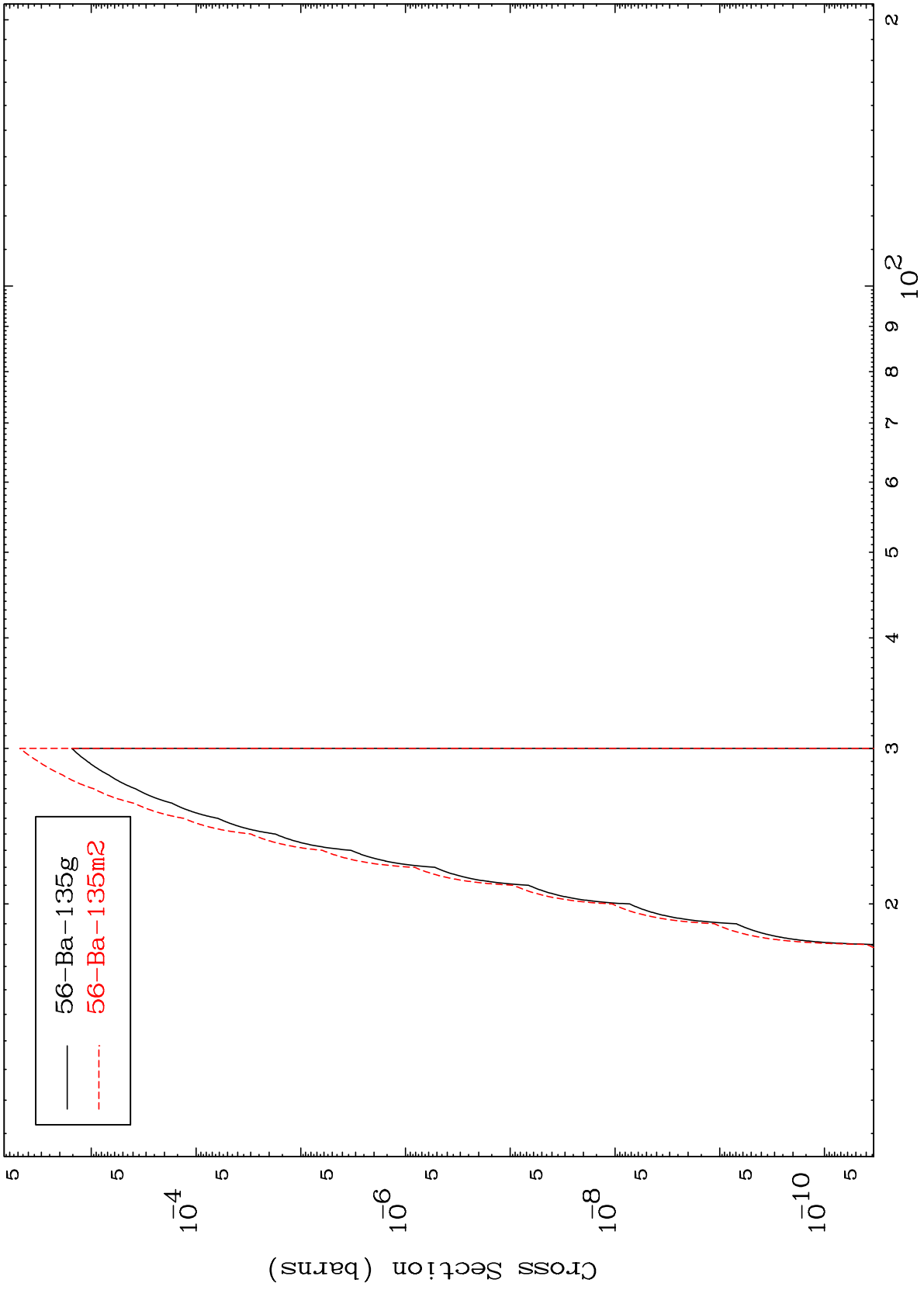
58-Ce-140

MAT 5837

(n,2n) α

58-Ce-140

Radionuclide Production Cross Section



131

Incident Energy (MeV)

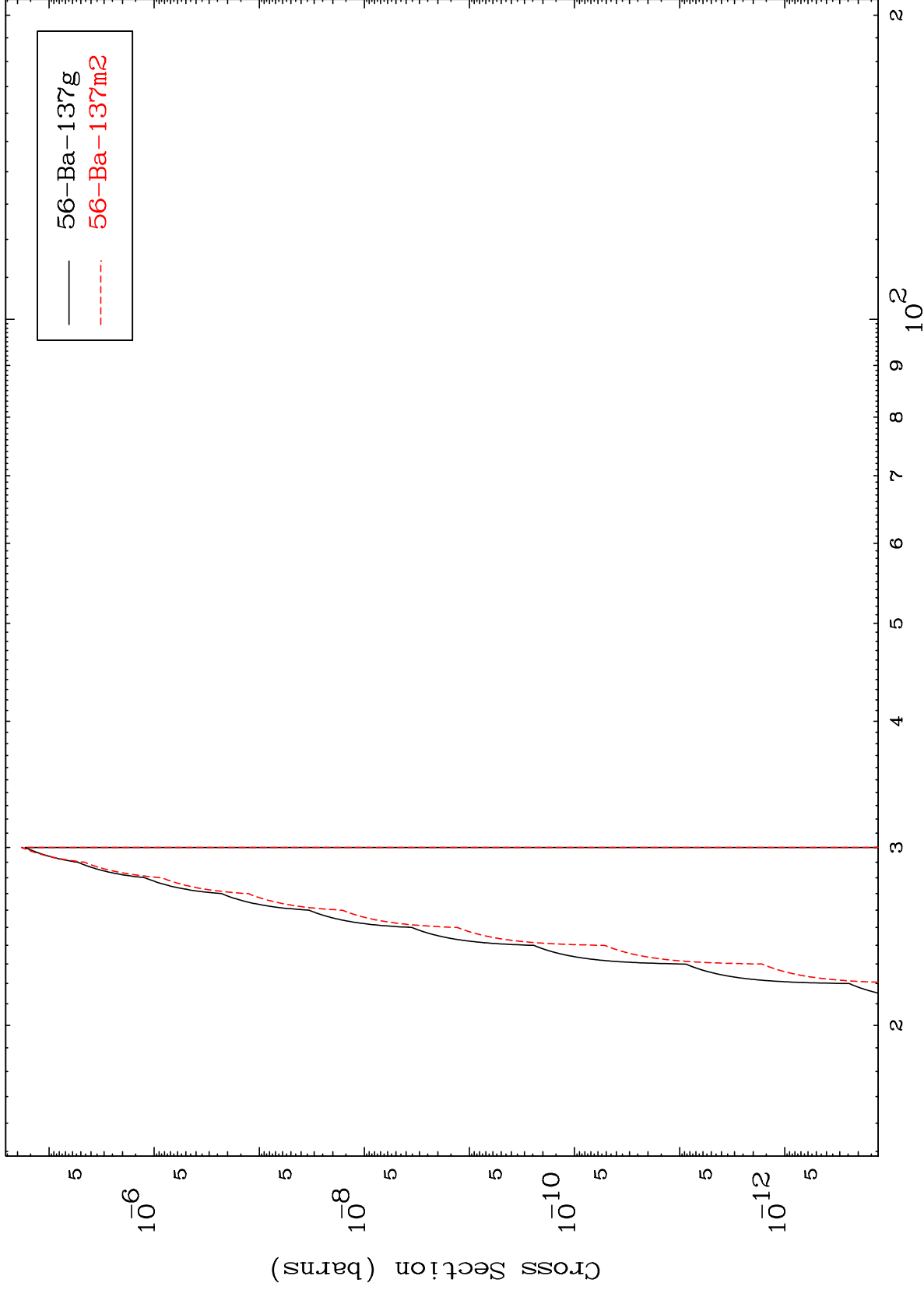
58-Ce-140

MAT 5837

(n, n') He-3

58-Ce-140

Radionuclide Production Cross Section



132

Incident Energy (MeV)

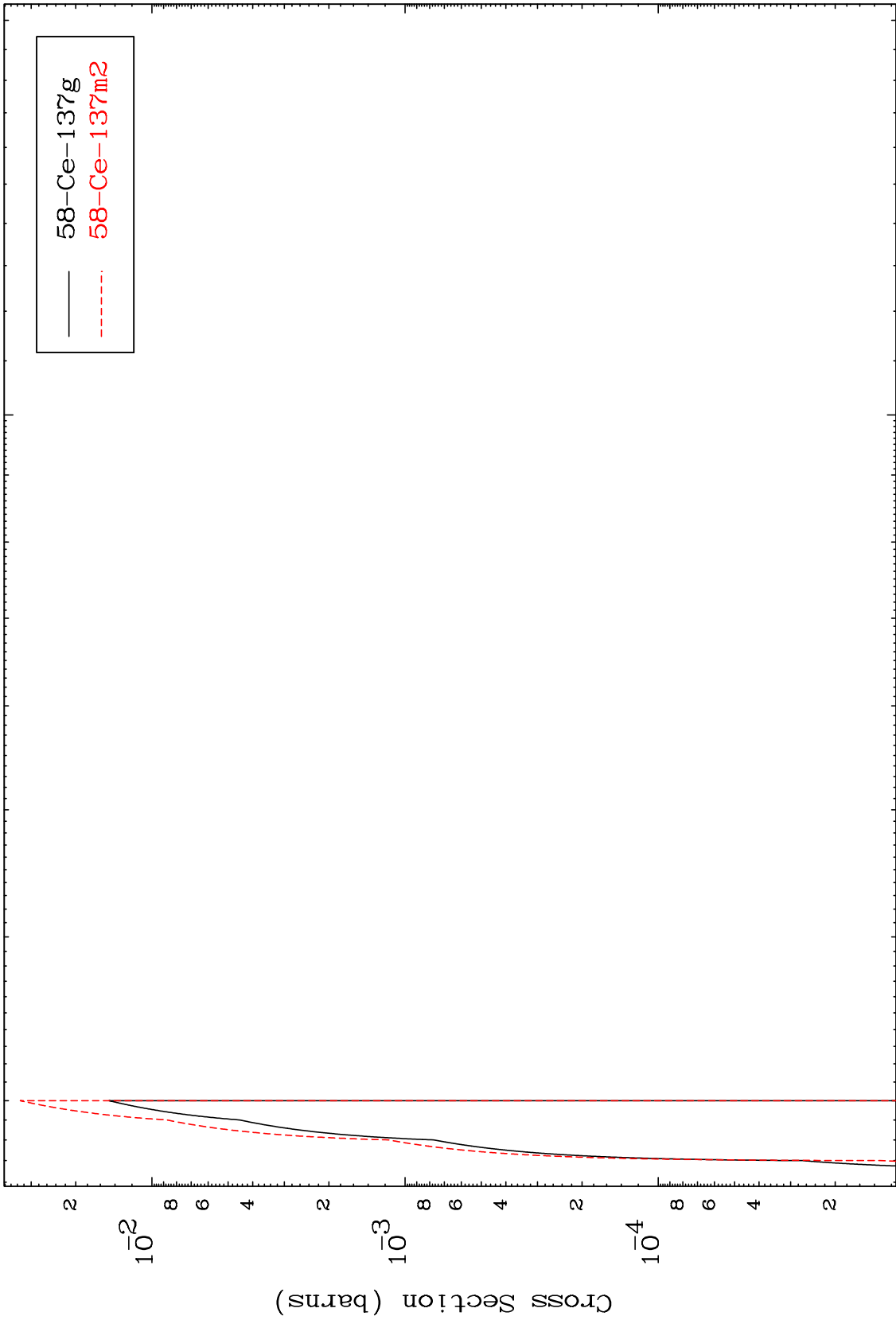
58-Ce-140

MAT 5837

(n,4n)

58-Ce-140

Radionuclide Production Cross Section



133

Incident Energy (MeV)

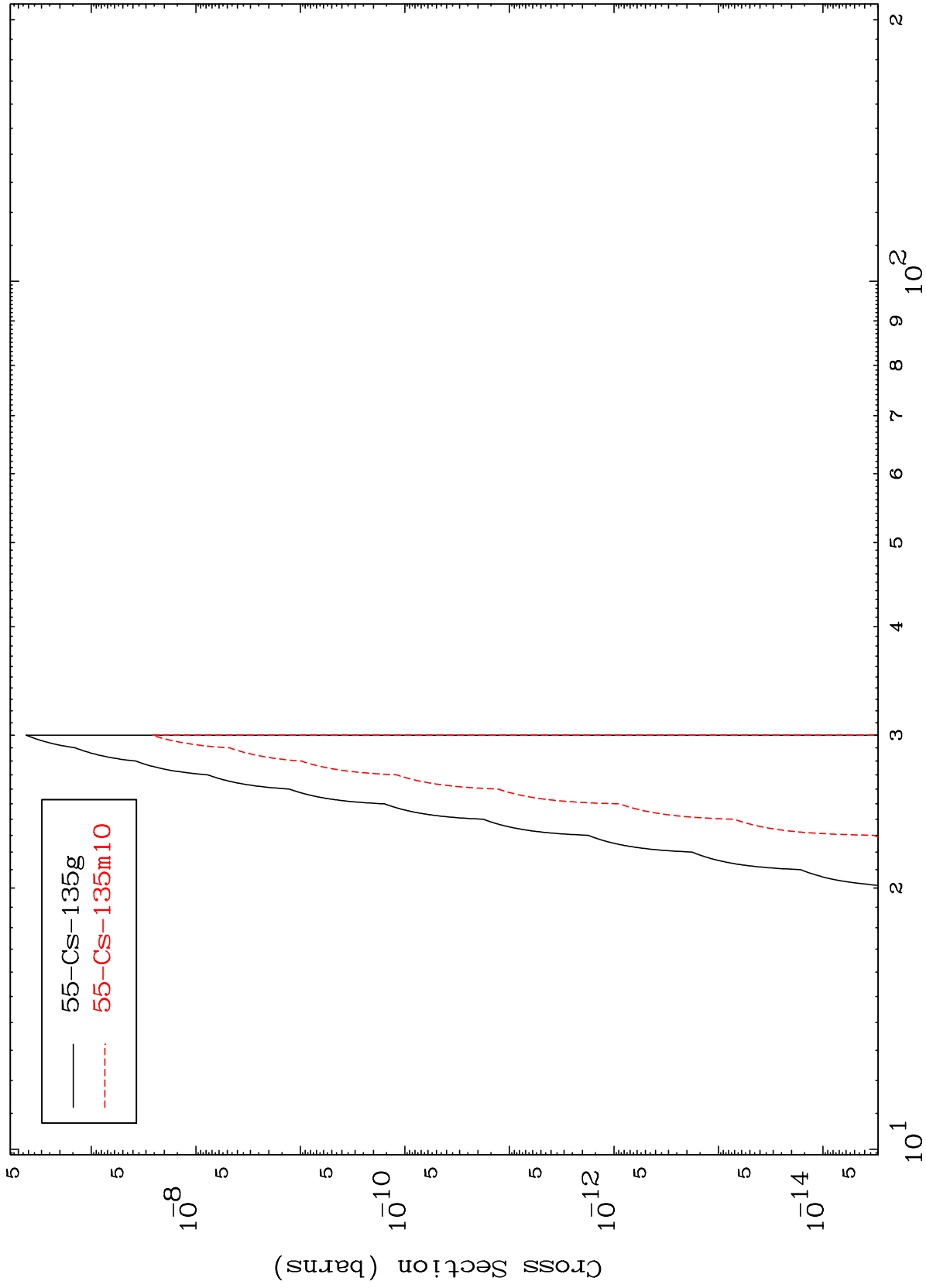
58-Ce-140

MAT 5837

(n,n') p α

58-Ce-140

Radionuclide Production Cross Section



134

Incident Energy (MeV)

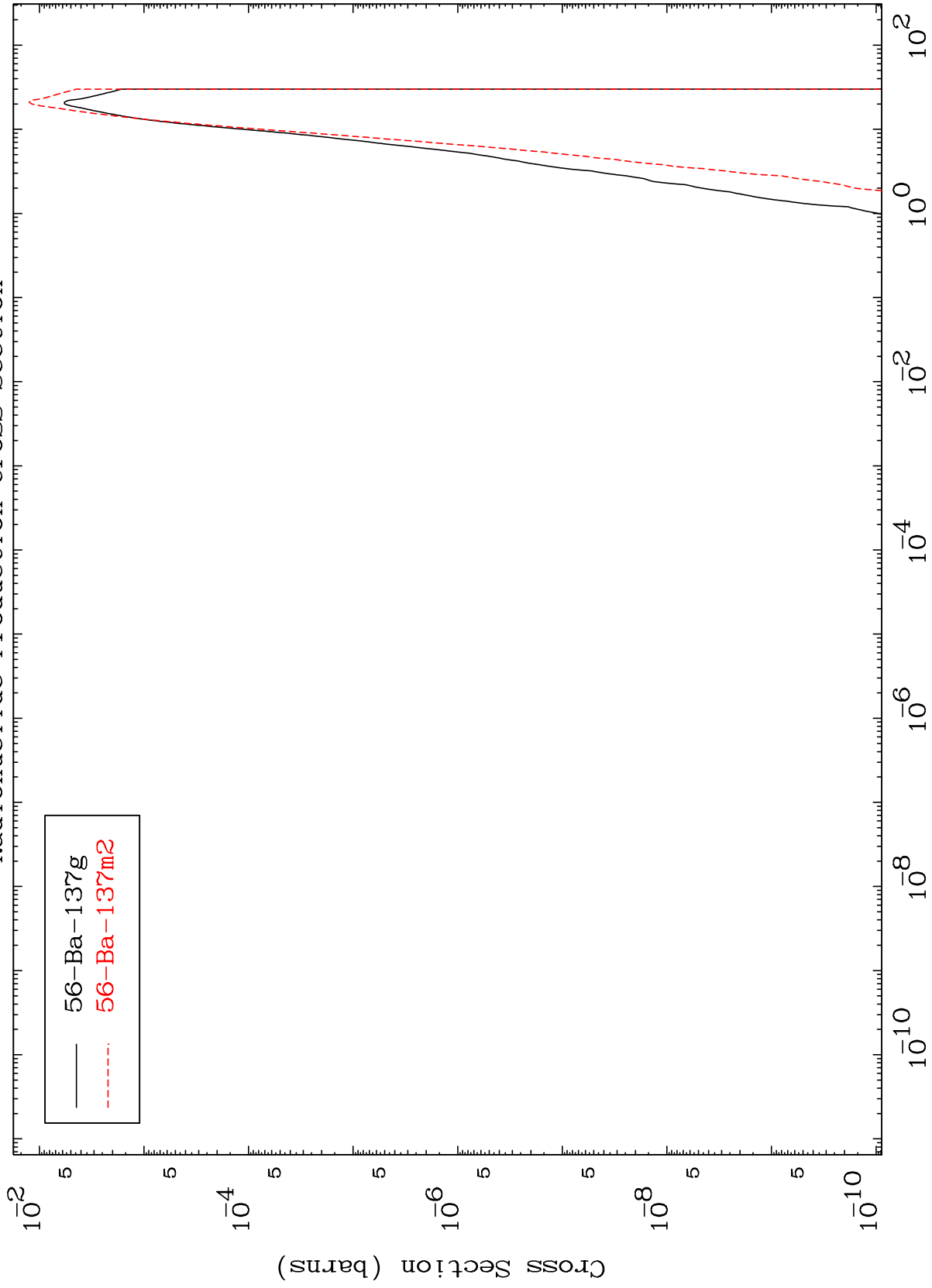
58-Ce-140

MAT 5837

(n,α)

58-Ce-140

Radionuclide Production Cross Section



135

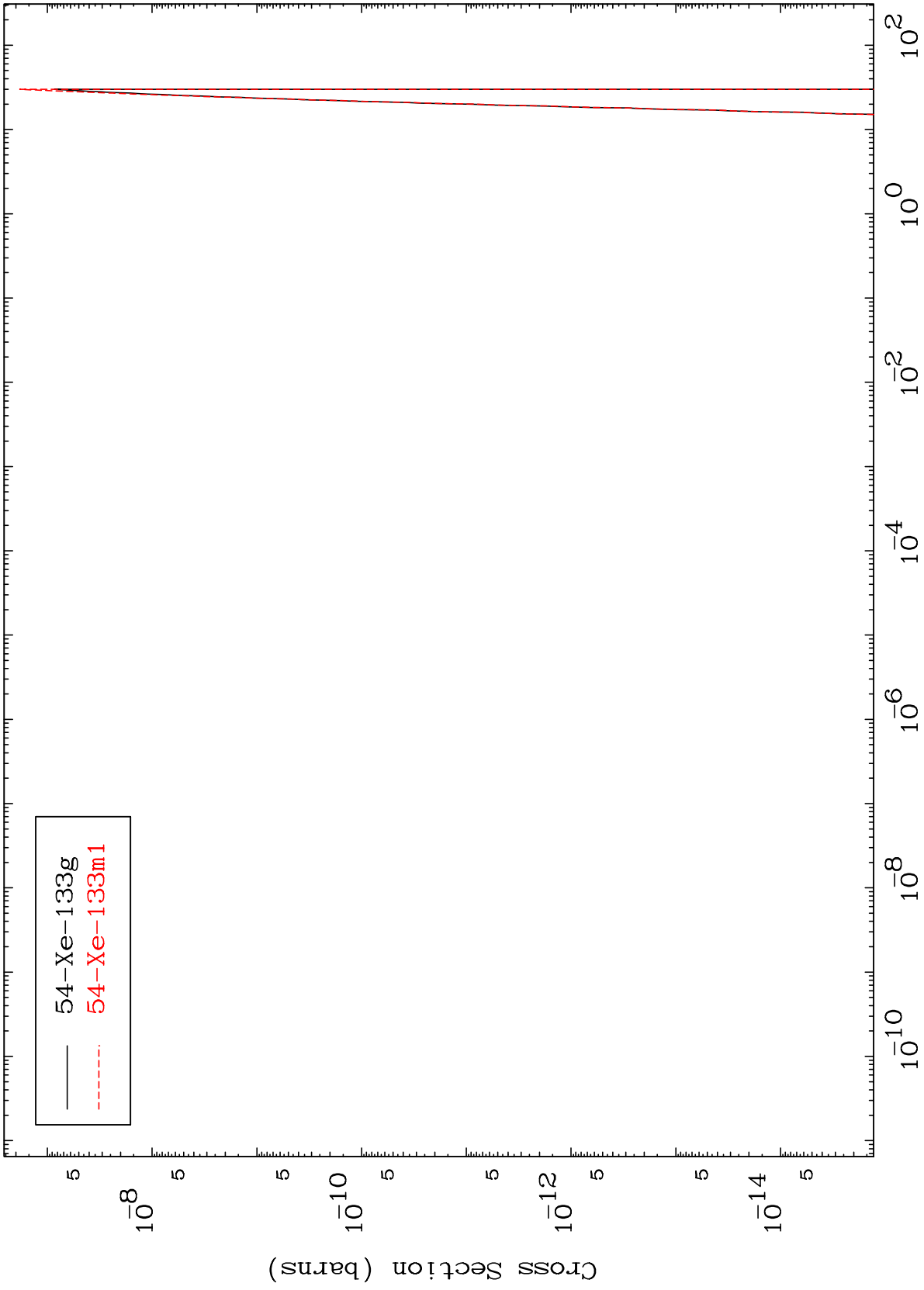
Incident Energy (MeV)

58-Ce-140

MAT 5837

Radionuclide Production Cross Section
(n,2α)

58-Ce-140



136

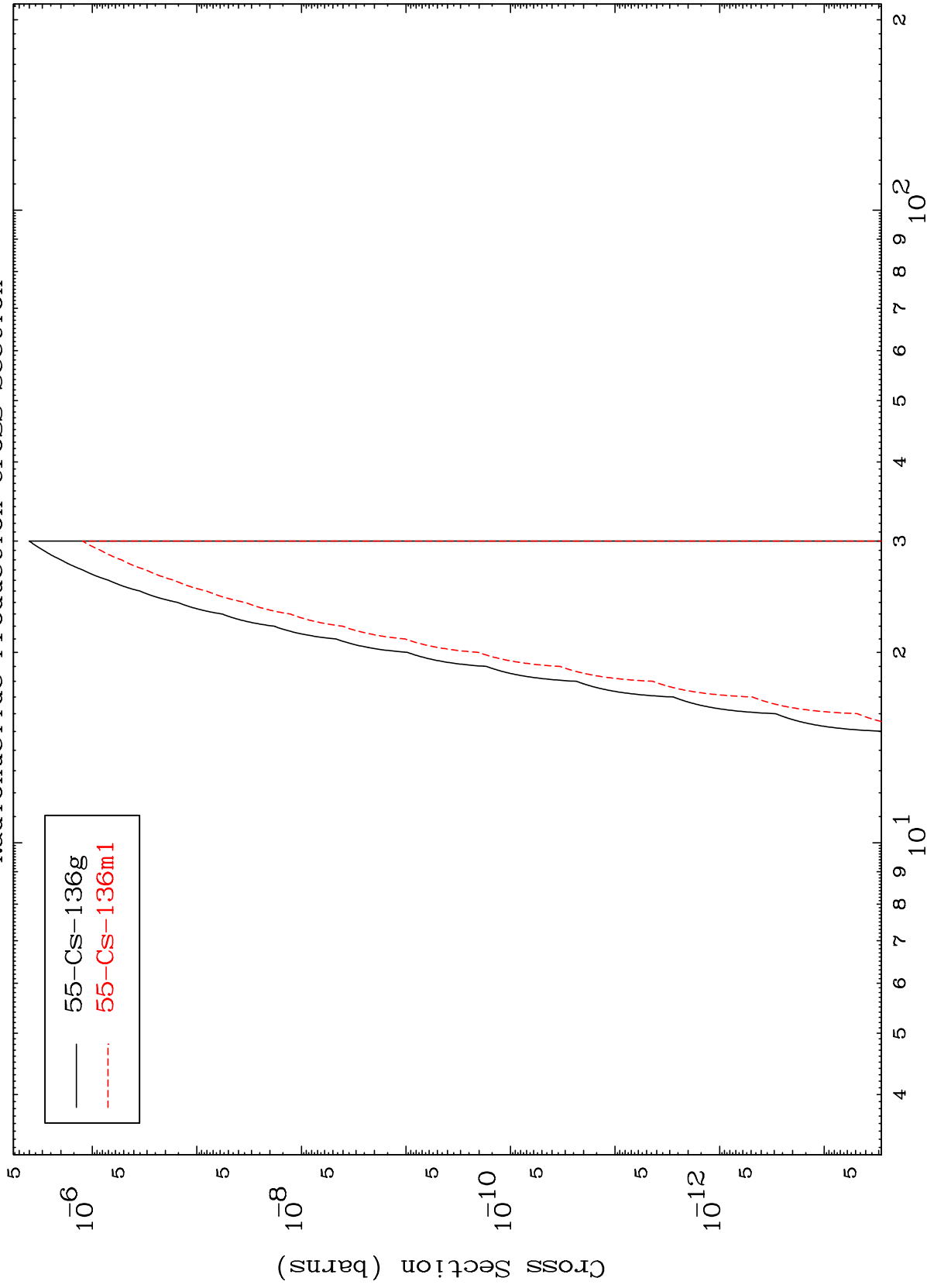
58-Ce-140

MAT 5837

(n,p) α

58-Ce-140

Radionuclide Production Cross Section



137

Incident Energy (MeV)

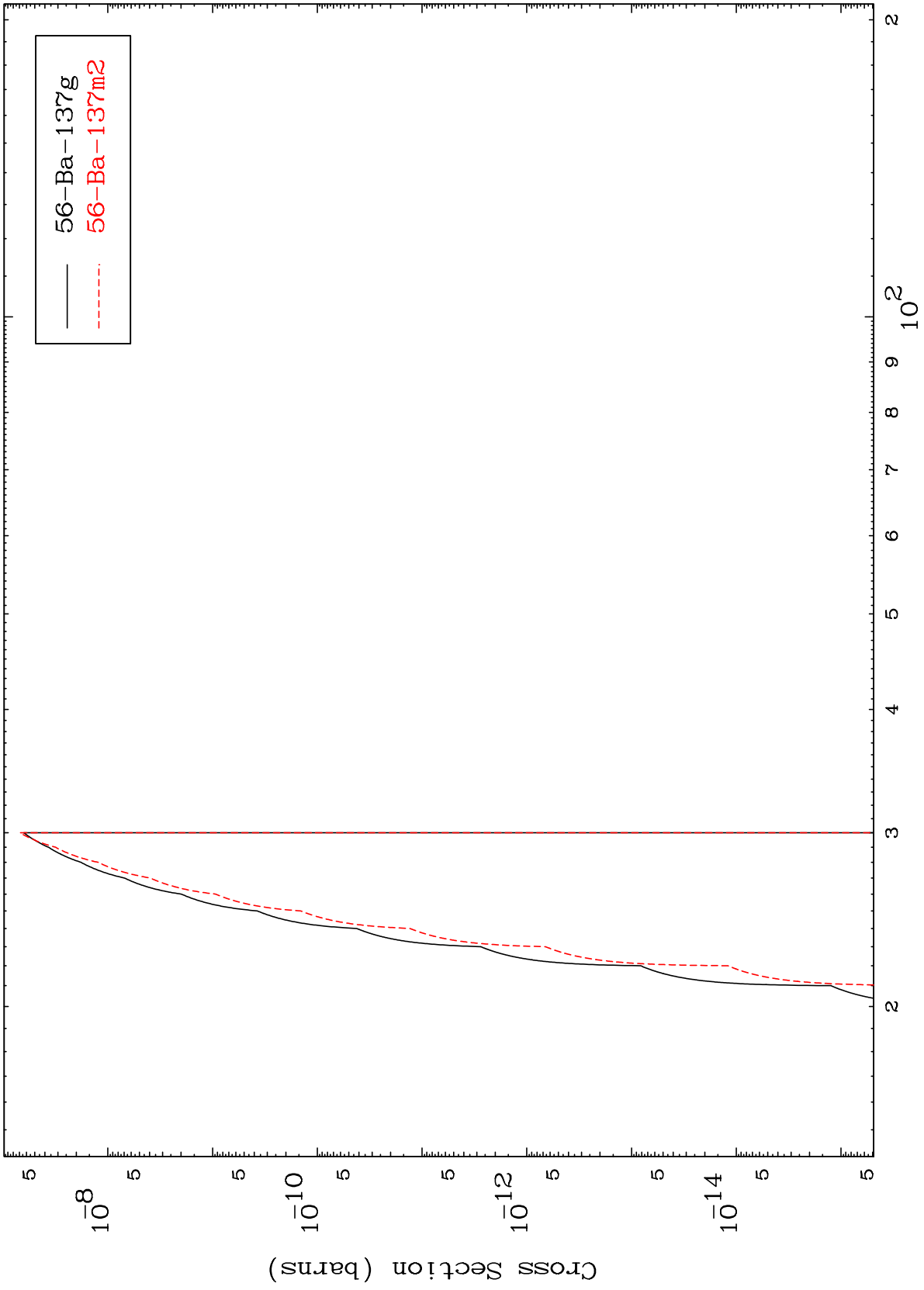
58-Ce-140

MAT 5837

(n,p) t

58-Ce-140

Radionuclide Production Cross Section



138

Incident Energy (MeV)

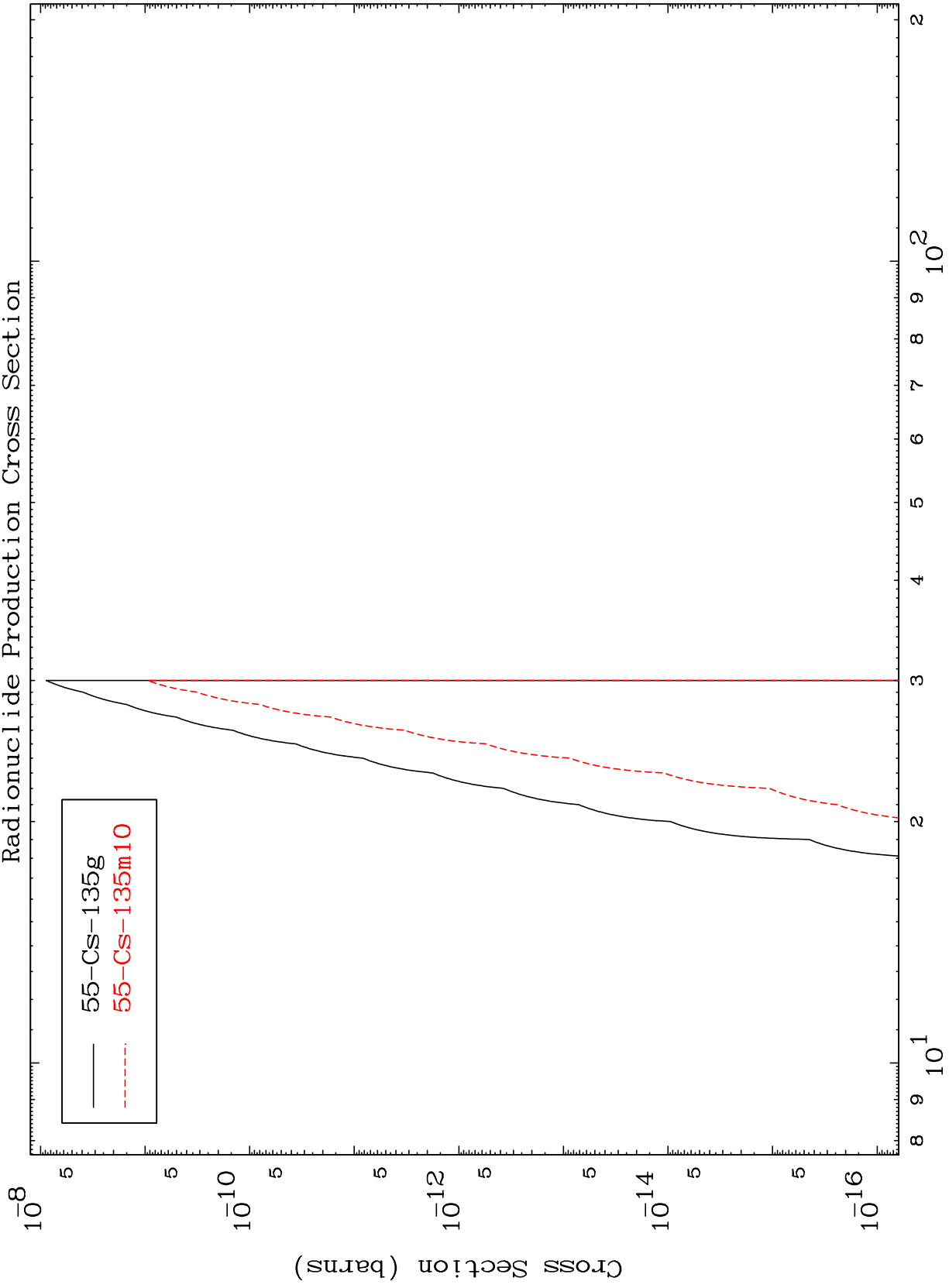
58-Ce-140

MAT 5837

(n,d) α

58-Ce-140

Radionuclide Production Cross Section



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

139

Incident Energy (MeV)

58-Ce-140