

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

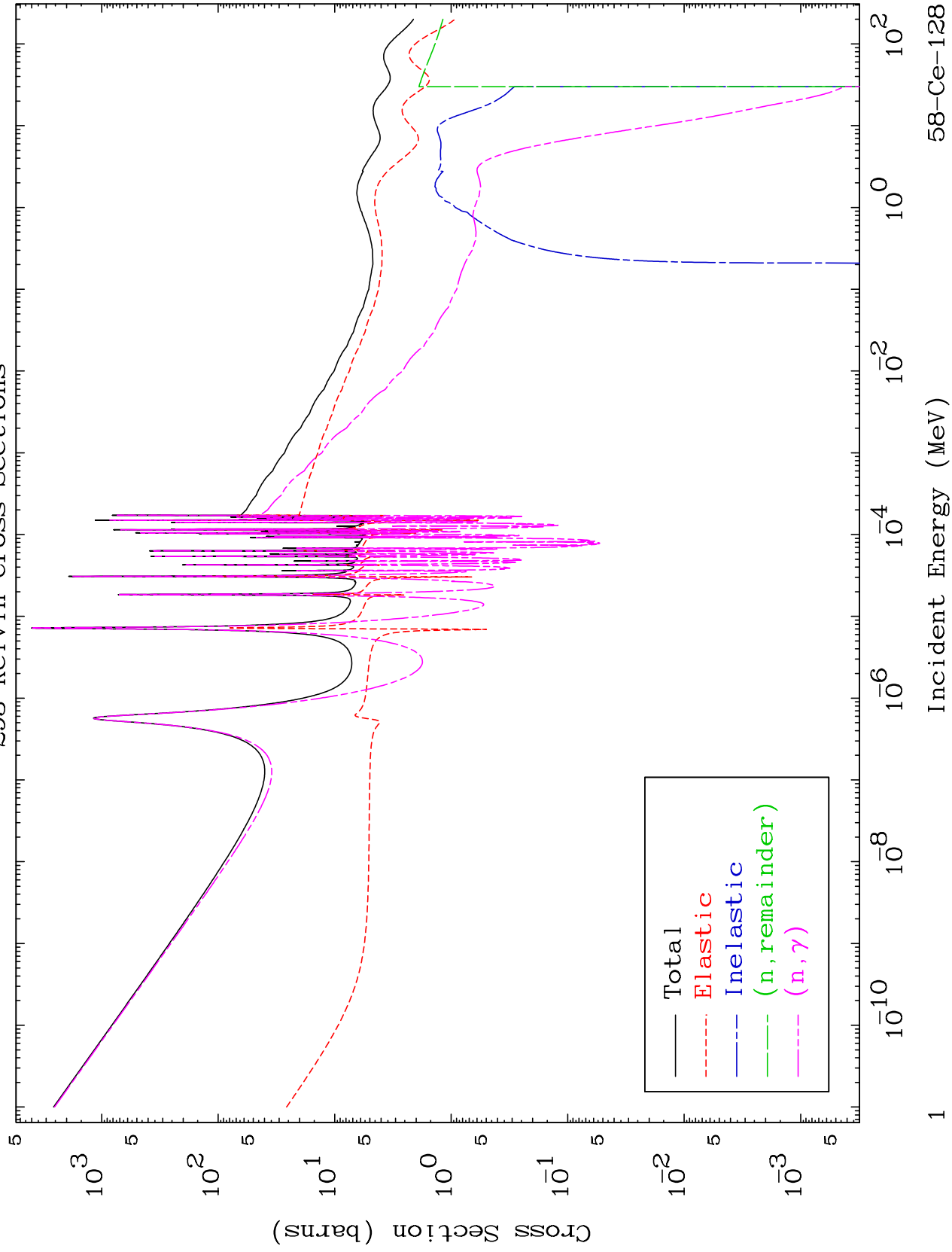
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5801

Major  
293 Kelvin Cross Sections

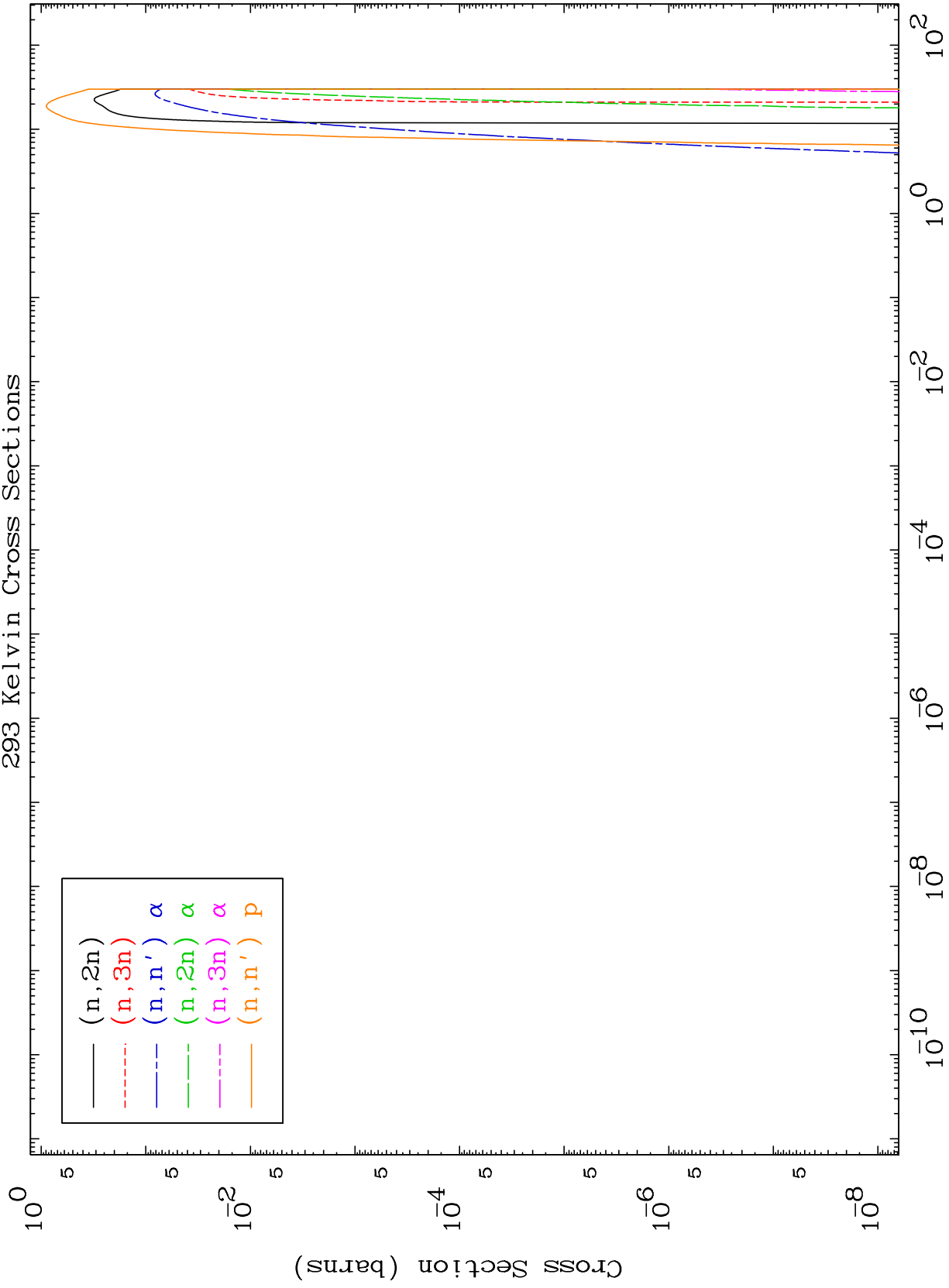
58-Ce-128



MAT 5801

Neutron Production  
293 Kelvin Cross Sections

58-Ce-128



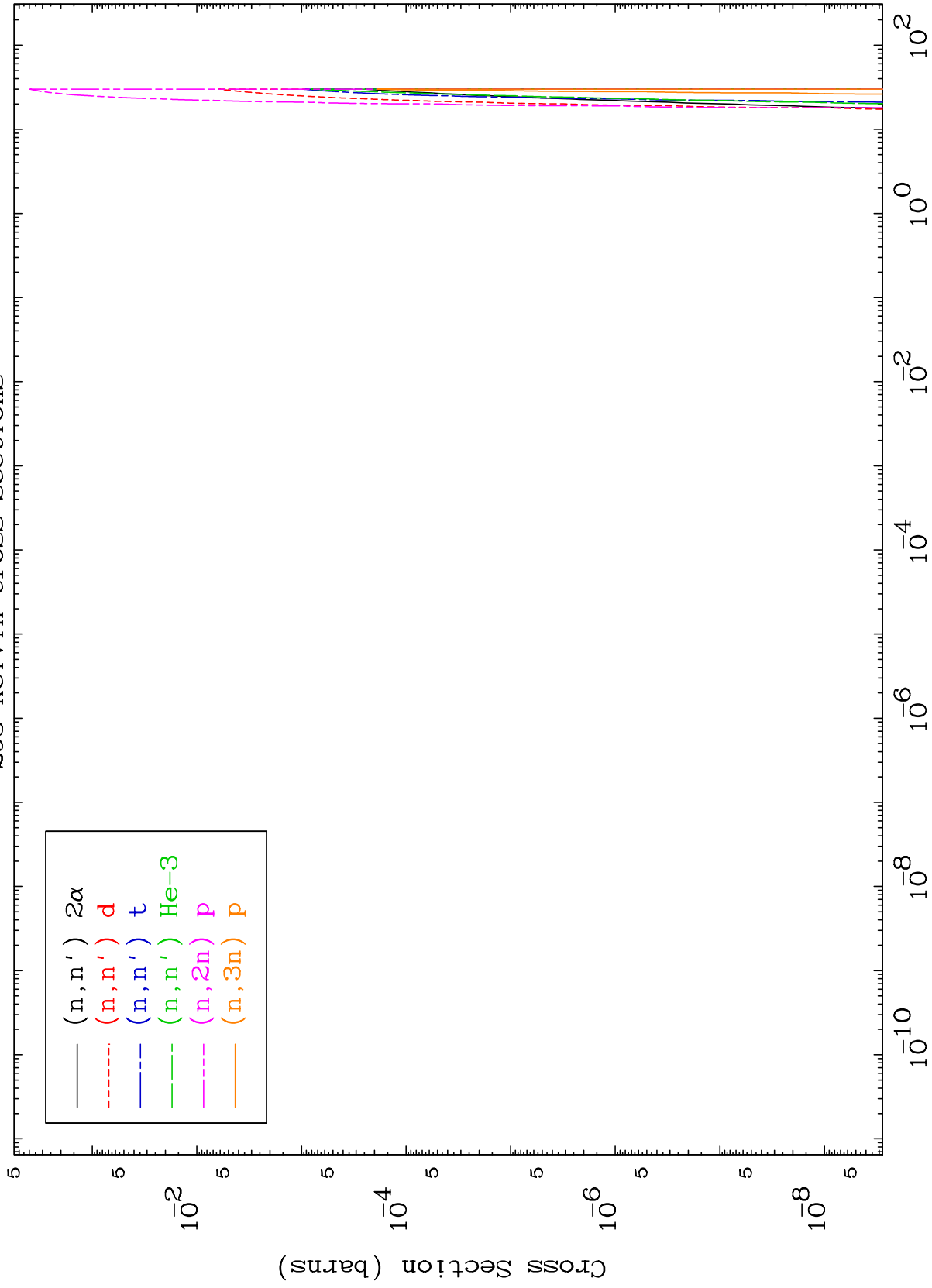
2

58-Ce-128

MAT 5801

Neutron Production  
293 Kelvin Cross Sections

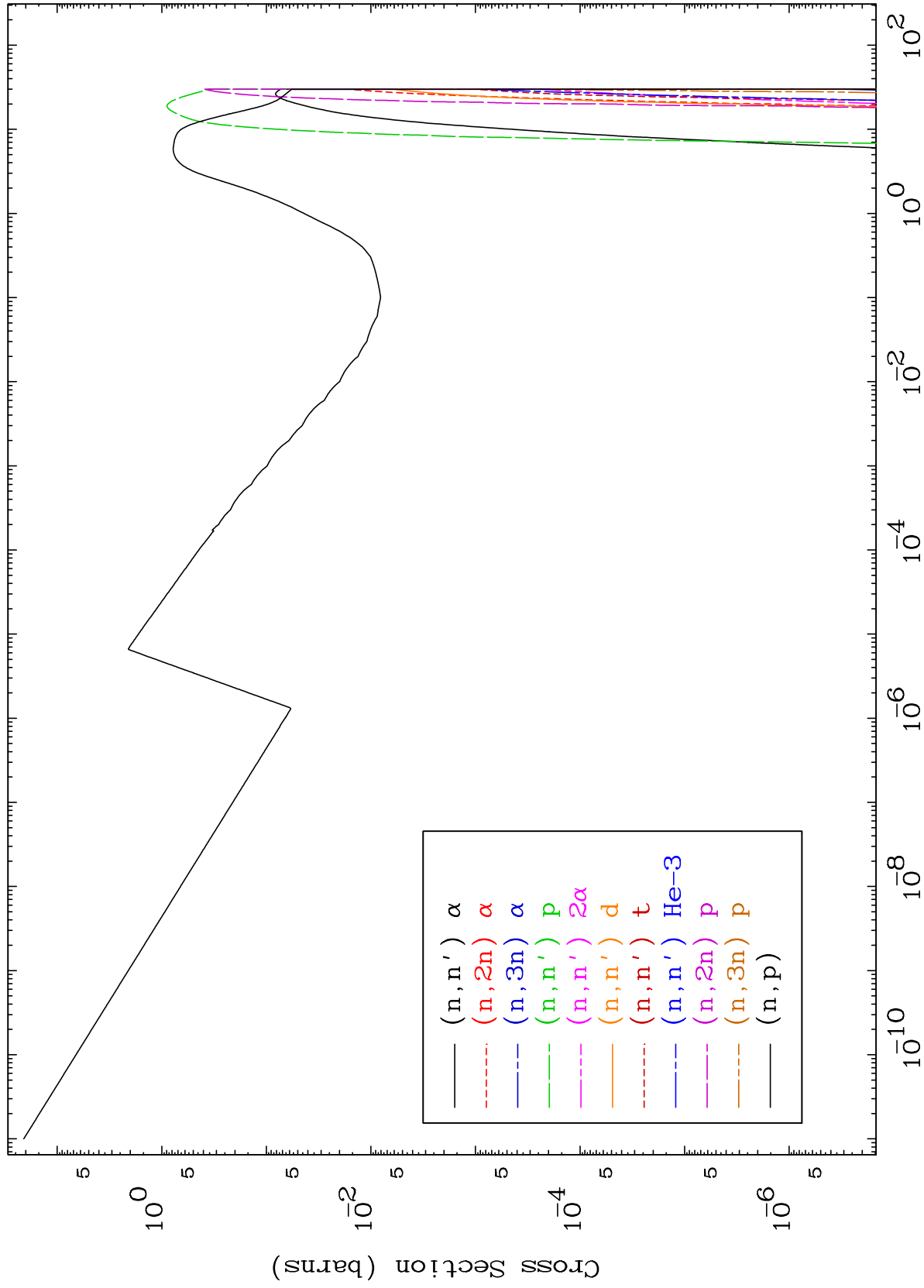
58-Ce-128



MAT 5801

Charged Particle  
293 Kelvin Cross Sections

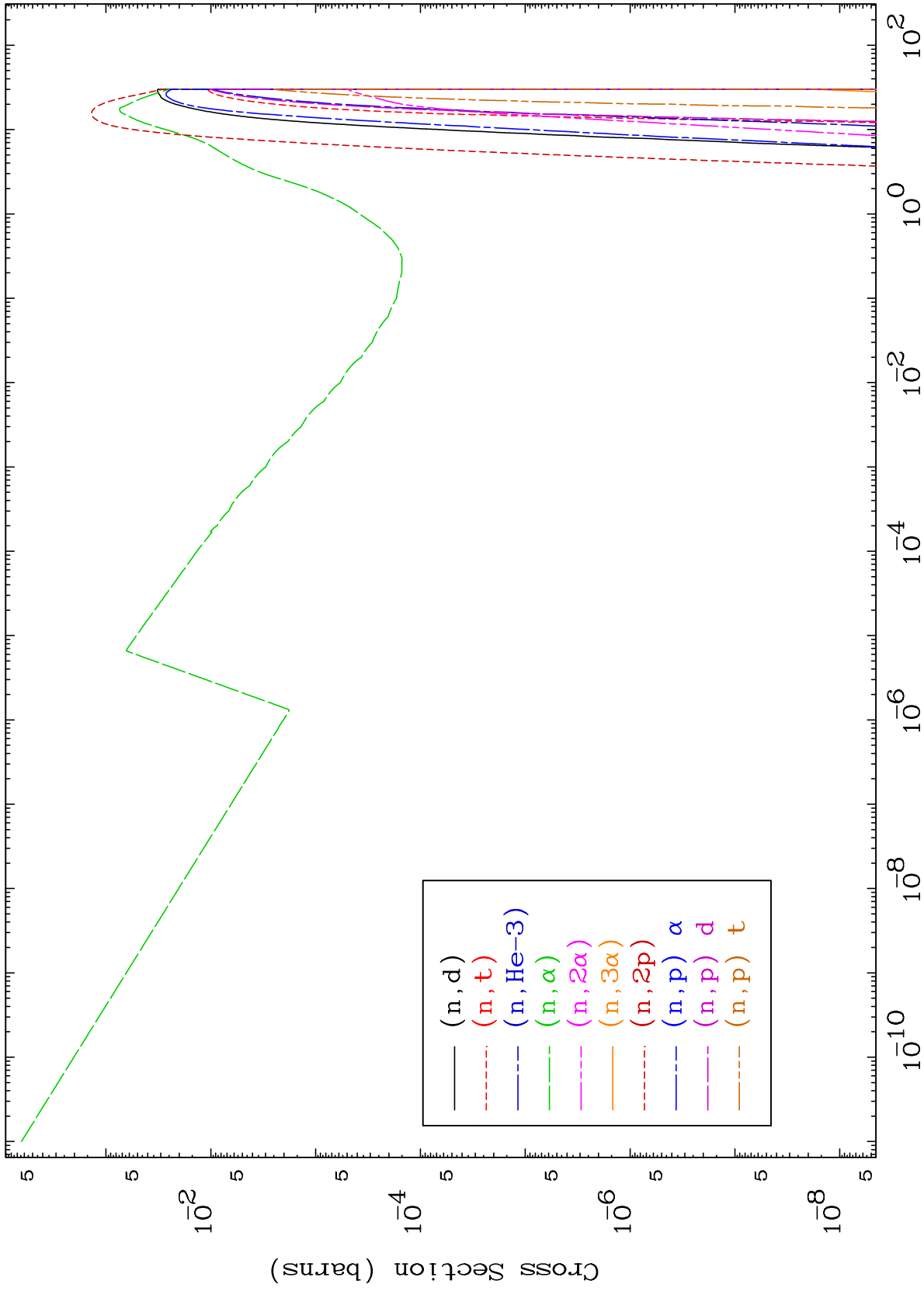
58-Ce-128



MAT 5801

Charged Particle  
293 Kelvin Cross Sections

58-Ce-128



5

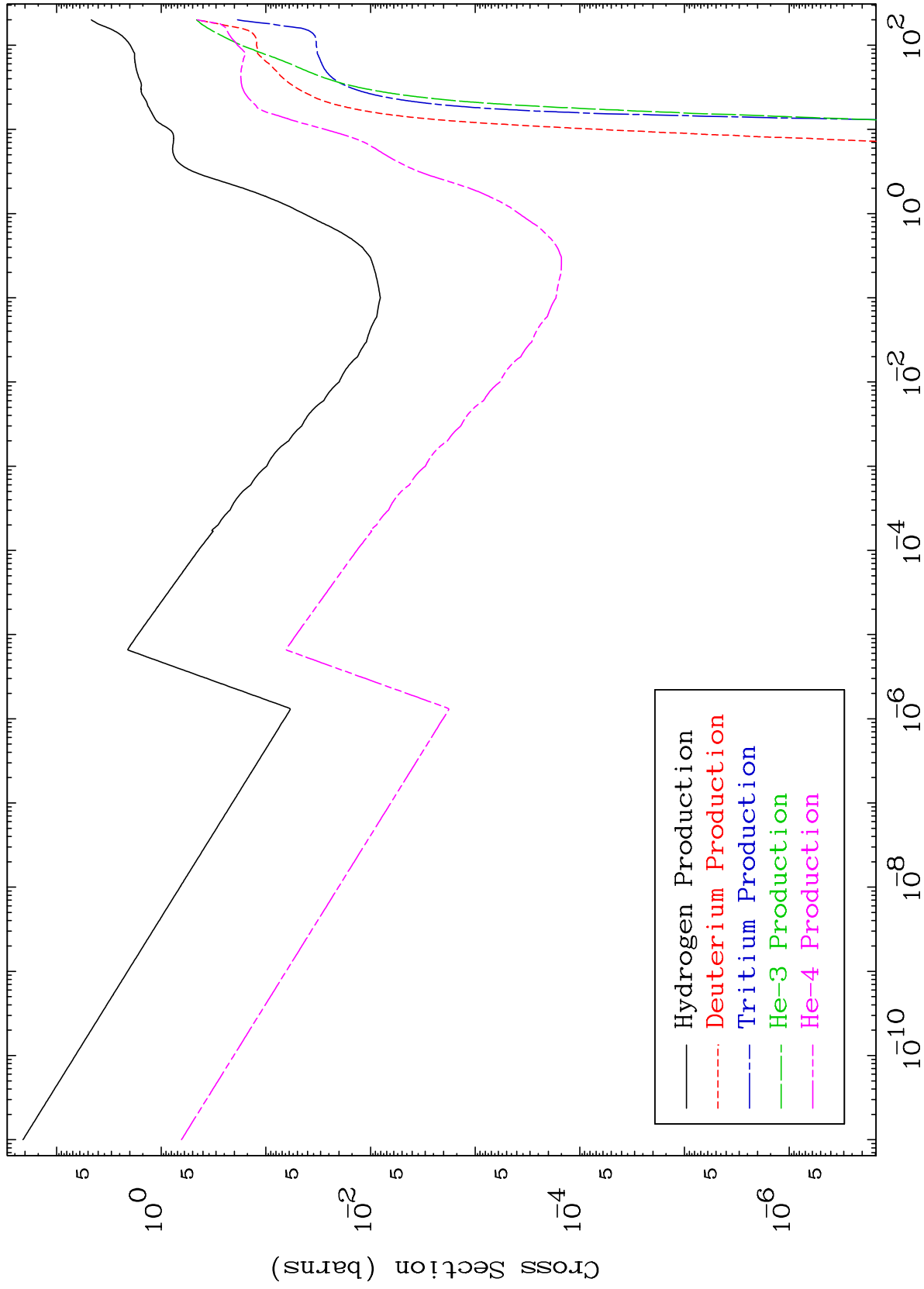
Incident Energy (MeV)

58-Ce-128

MAT 5801

Particle Production  
293 Kelvin Cross Sections

58-Ce-128

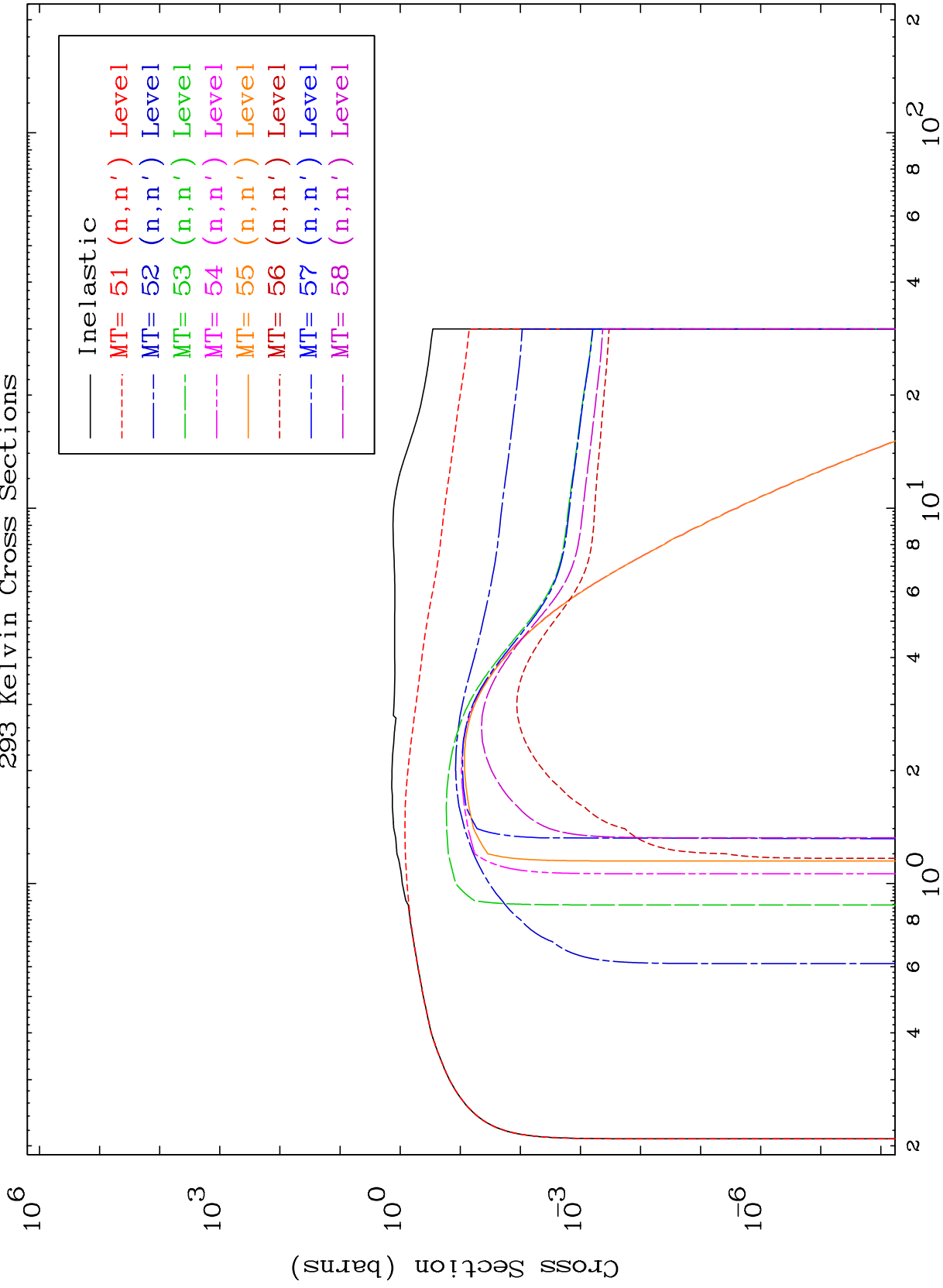


MAT 5801

(n,n') Level

58-Ce-128

293 Kelvin Cross Sections



7

Incident Energy (MeV)

58-Ce-128

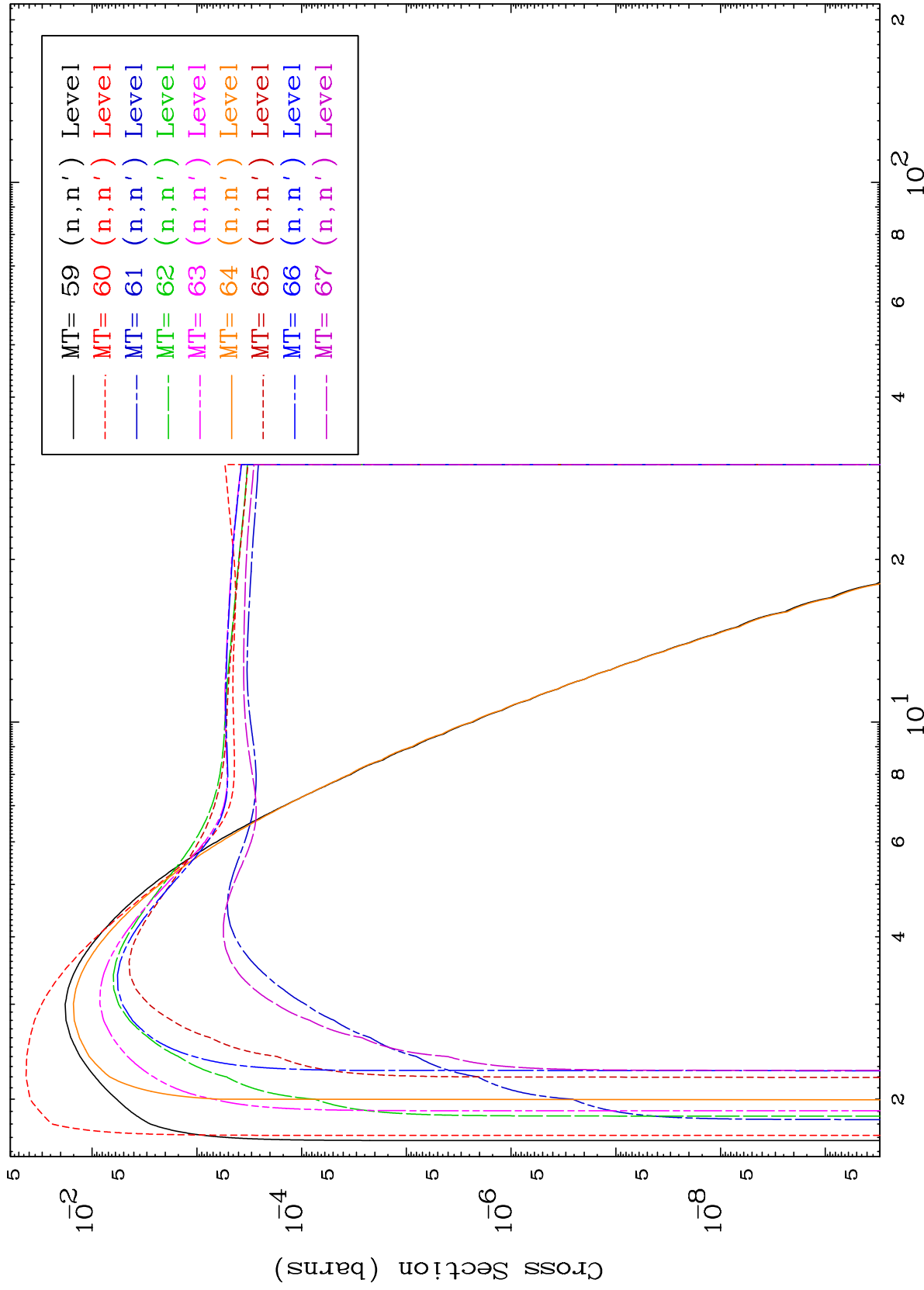


MAT 5801

(n,n') Level

58-Ce-128

293 Kelvin Cross Sections

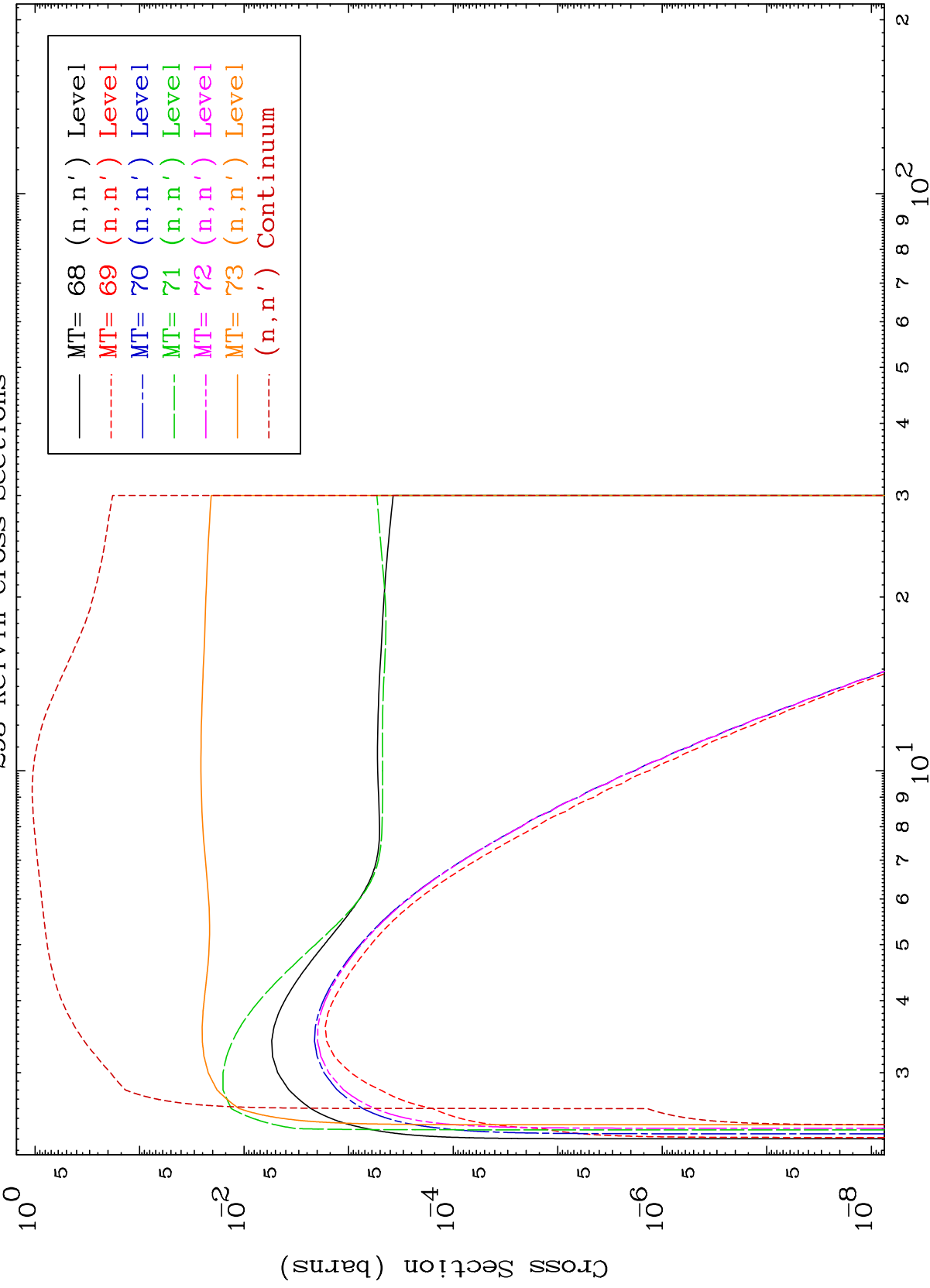


8

Incident Energy (MeV)

58-Ce-128

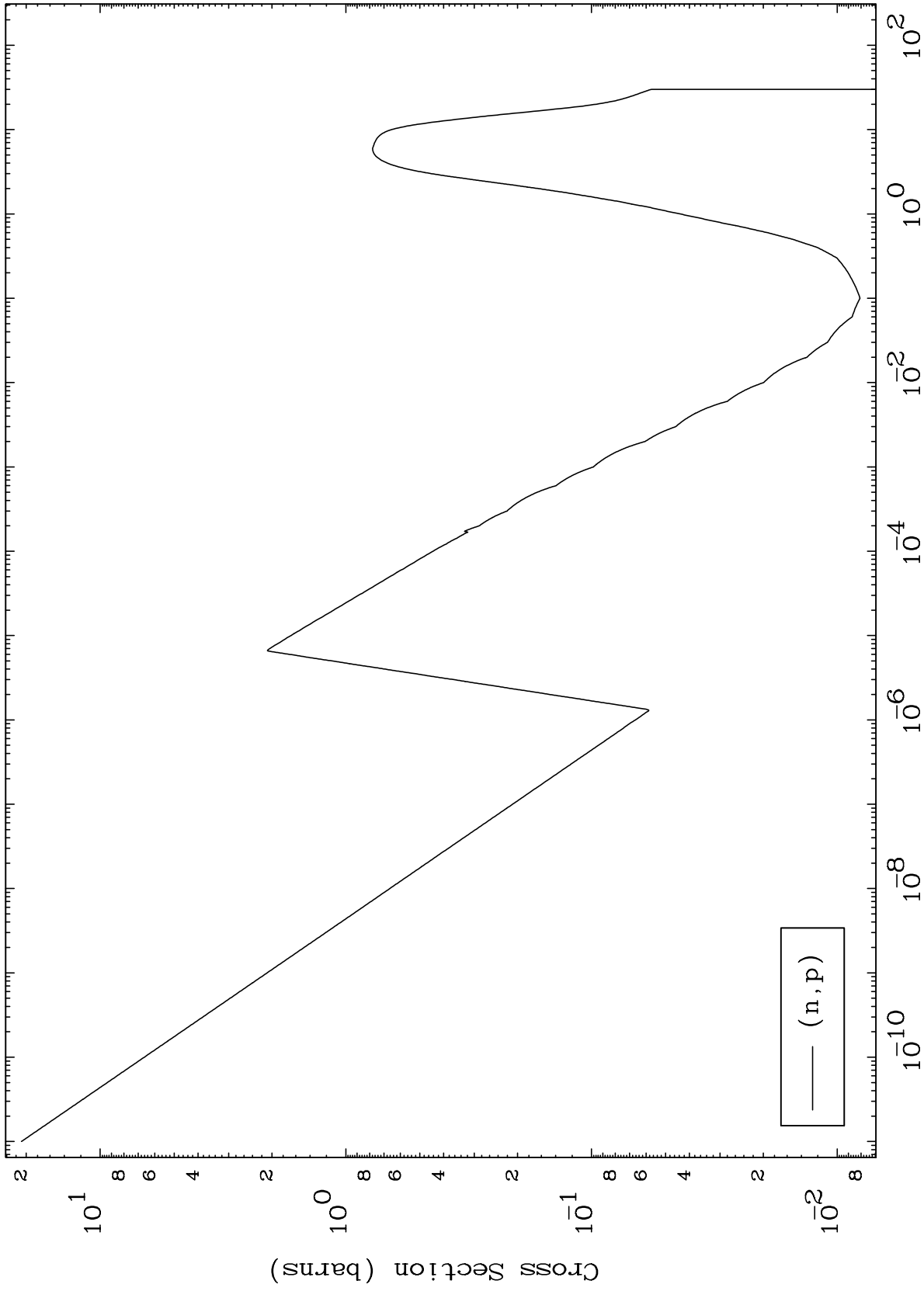
293 Kelvin Cross Sections



MAT 5801

(n,p) Levels  
293 Kelvin Cross Sections

58-Ce-128



10

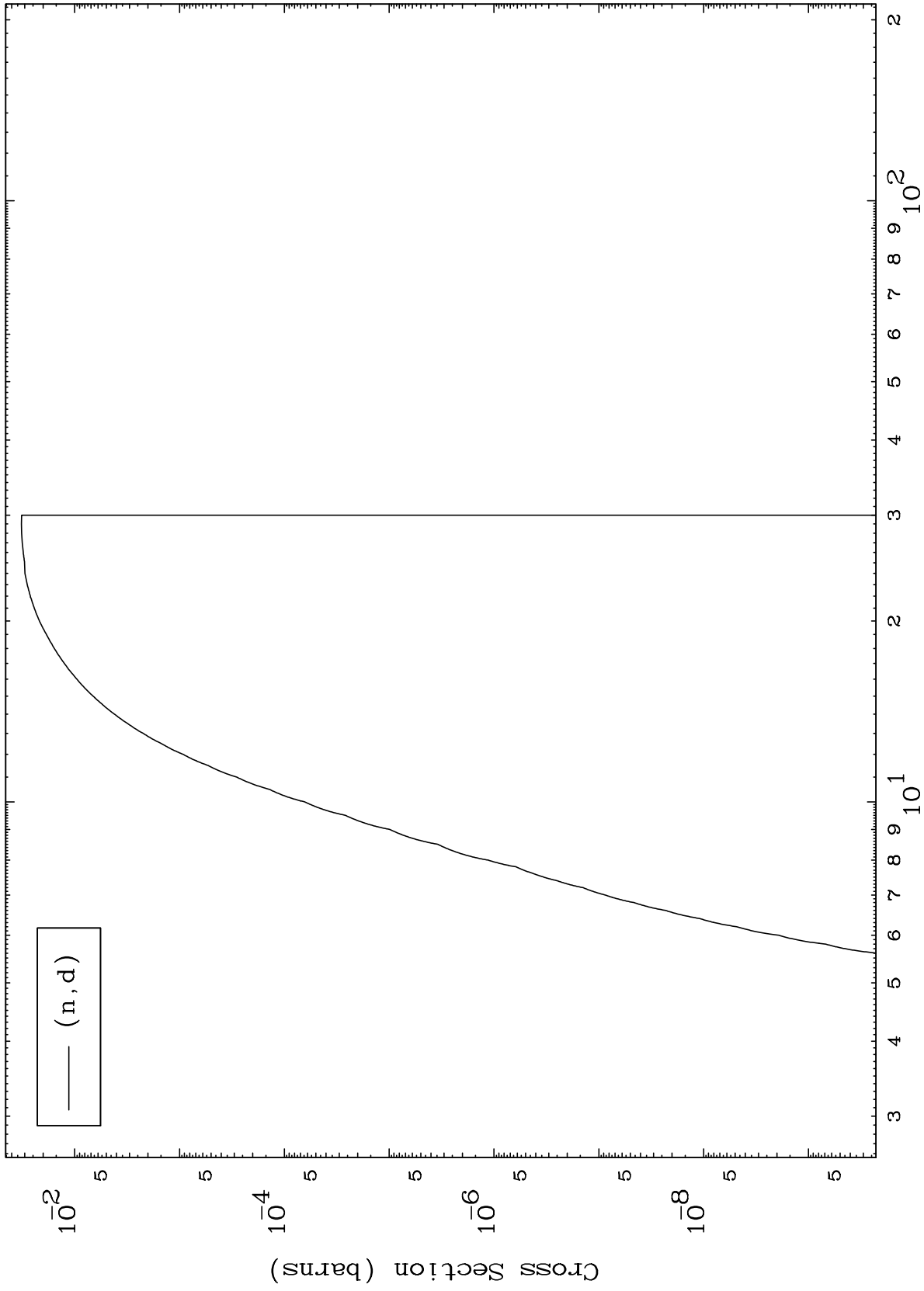
Incident Energy (MeV)

58-Ce-128

MAT 5801

(n,d) Levels  
293 Kelvin Cross Sections

58-Ce-128



11

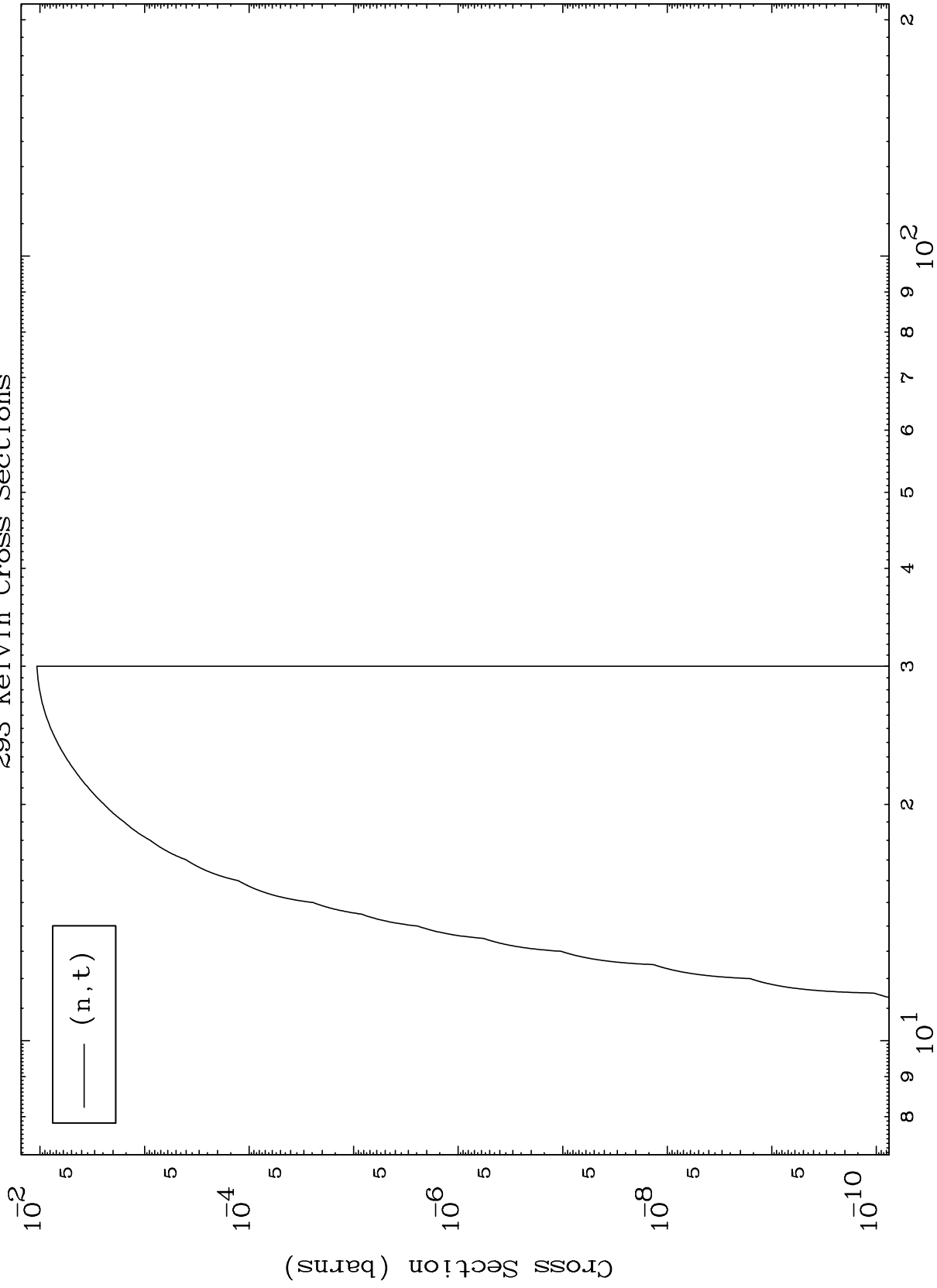
Incident Energy (MeV)

58-Ce-128

MAT 5801

(n,t) Levels  
293 Kelvin Cross Sections

58-Ce-128



12

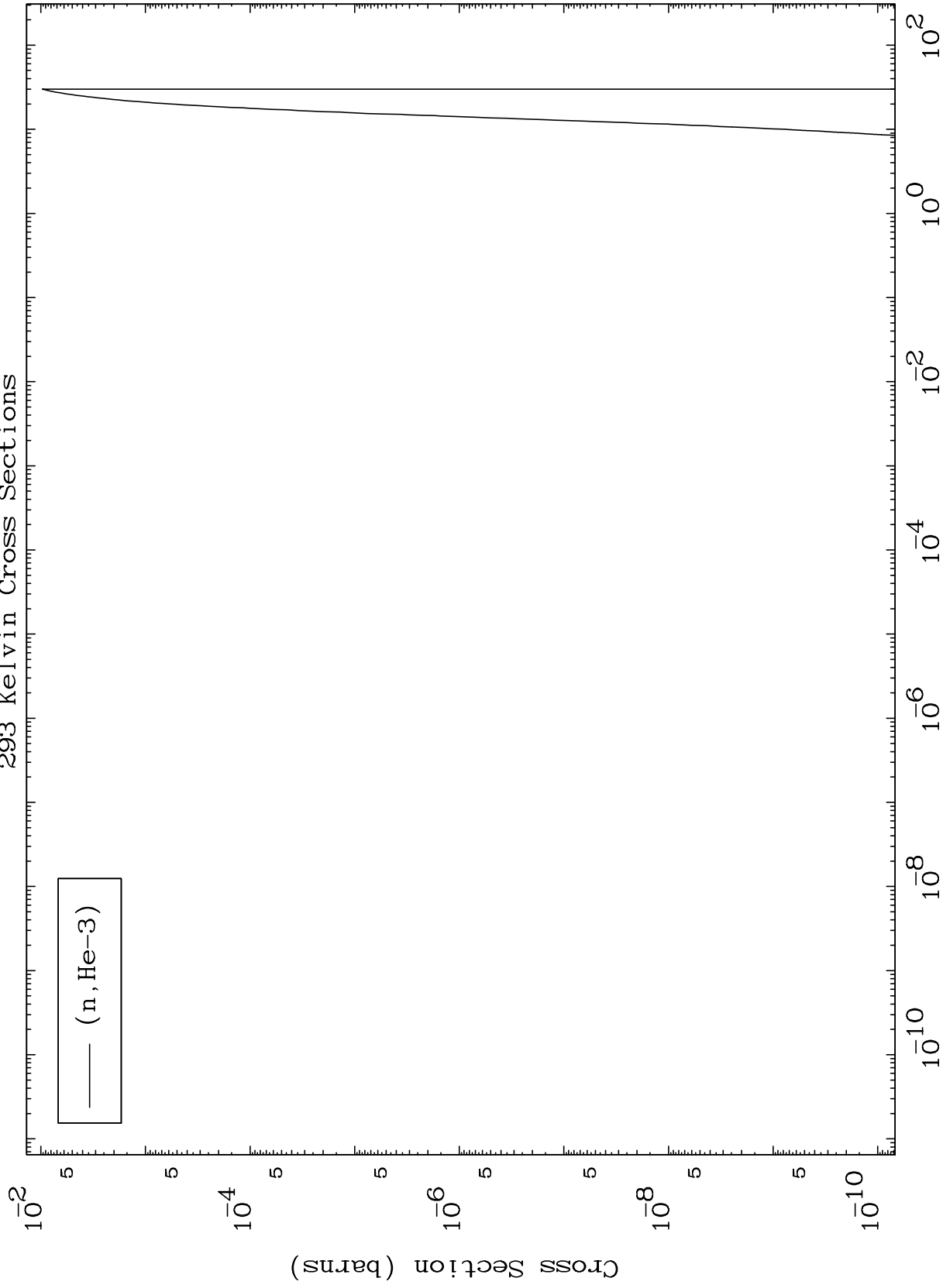
Incident Energy (MeV)

58-Ce-128

MAT 5801

(n,He3) Levels  
293 Kelvin Cross Sections

58-Ce-128



13

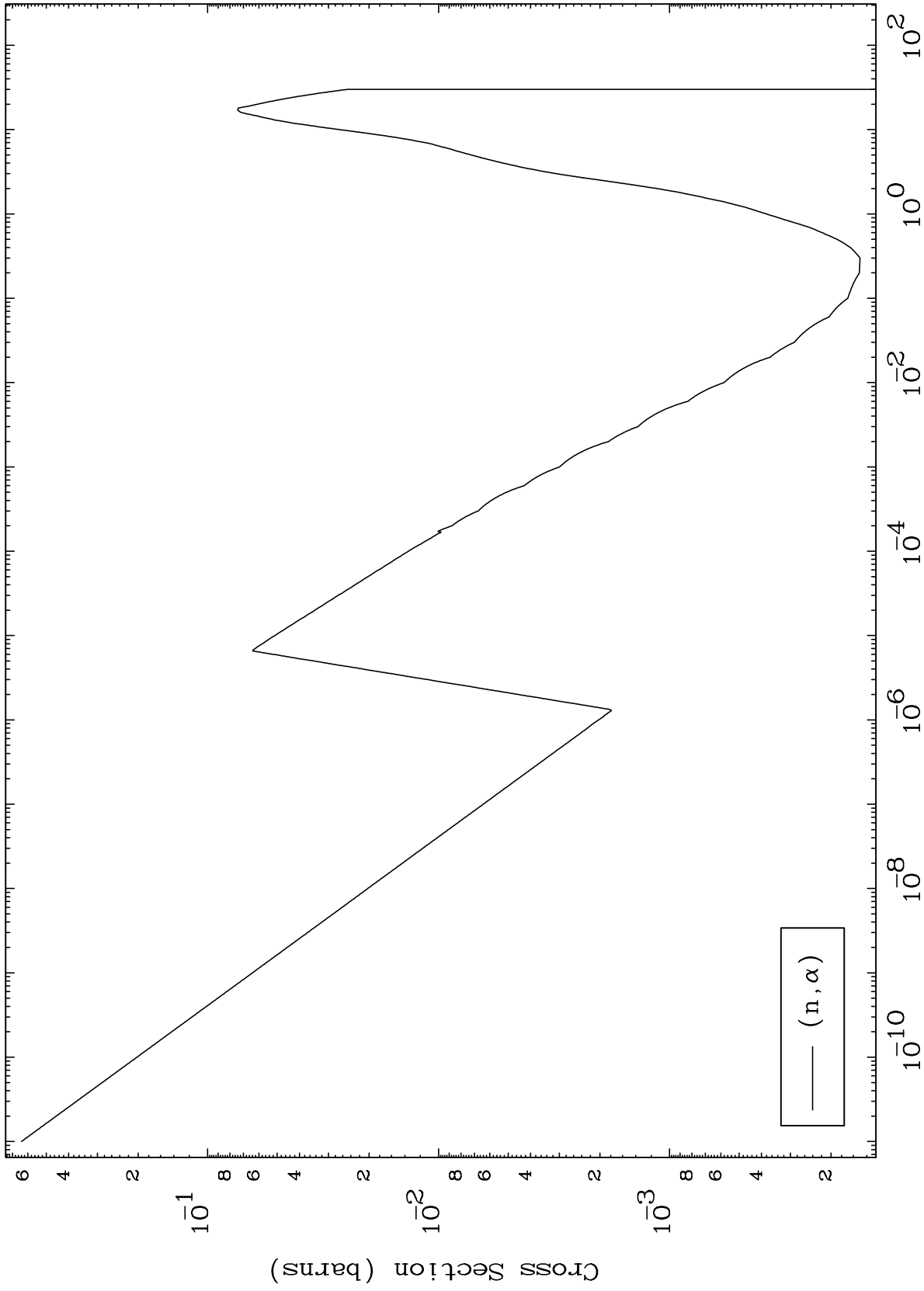
Incident Energy (MeV)

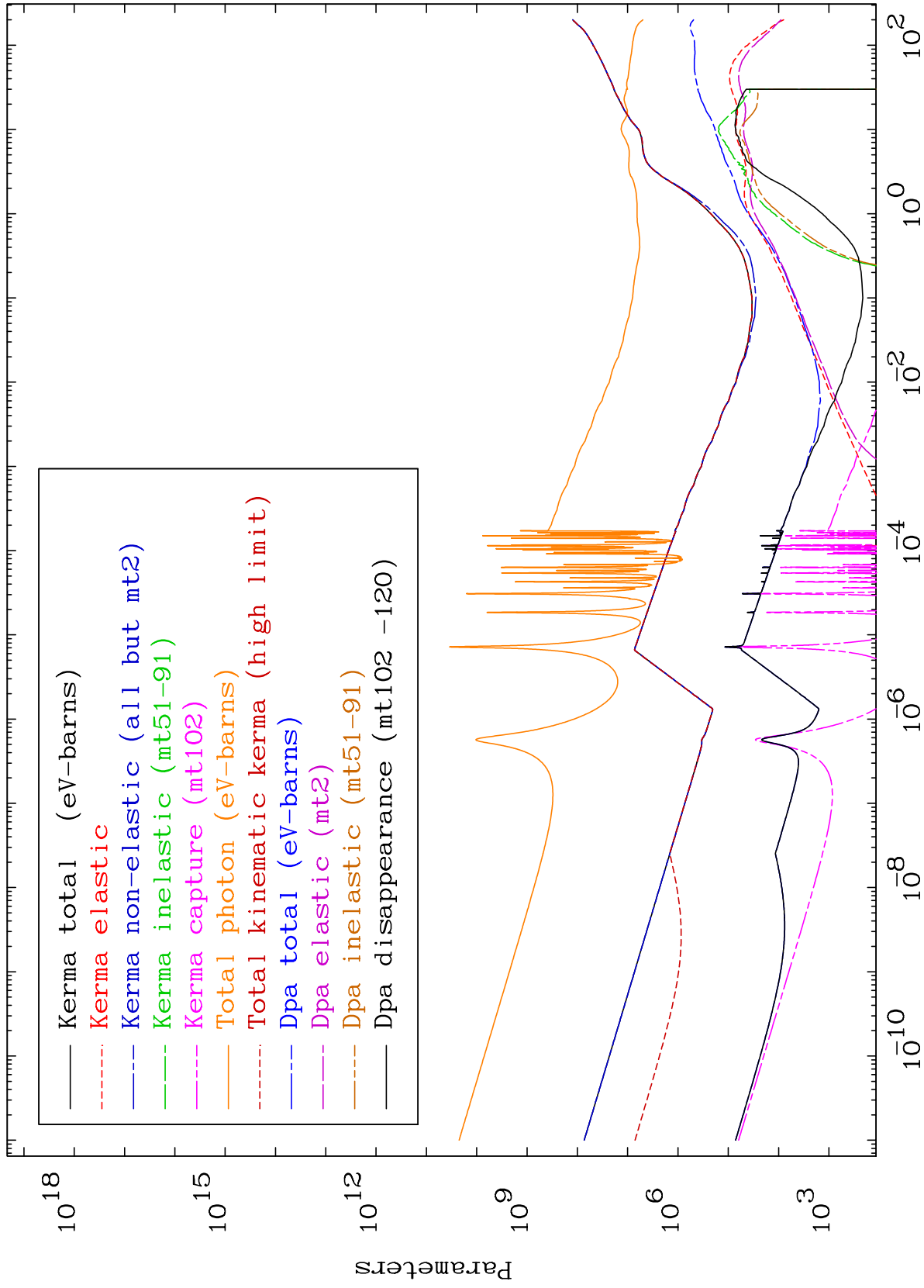
58-Ce-128

MAT 5801

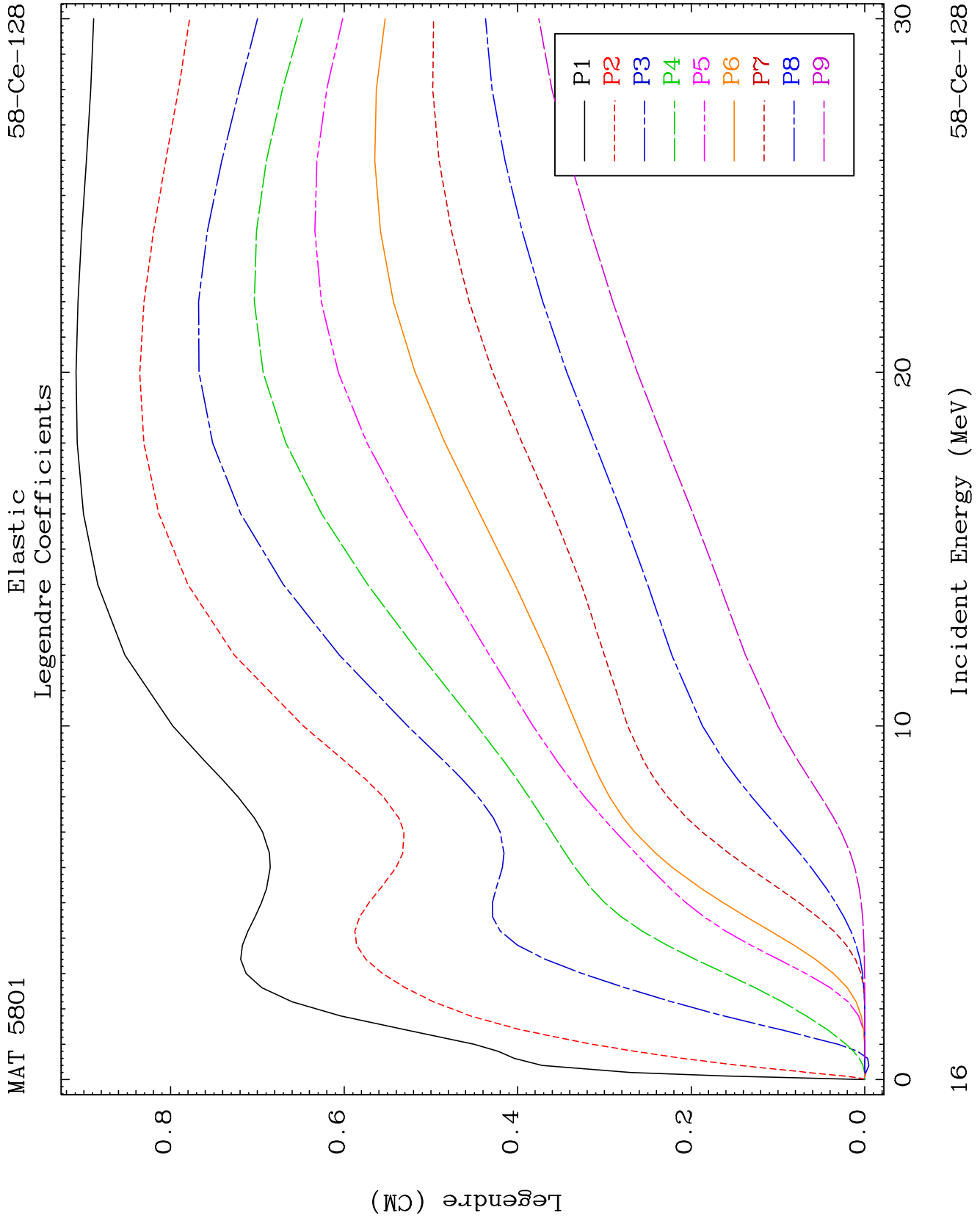
(n,α) Levels  
293 Kelvin Cross Sections

58-Ce-128





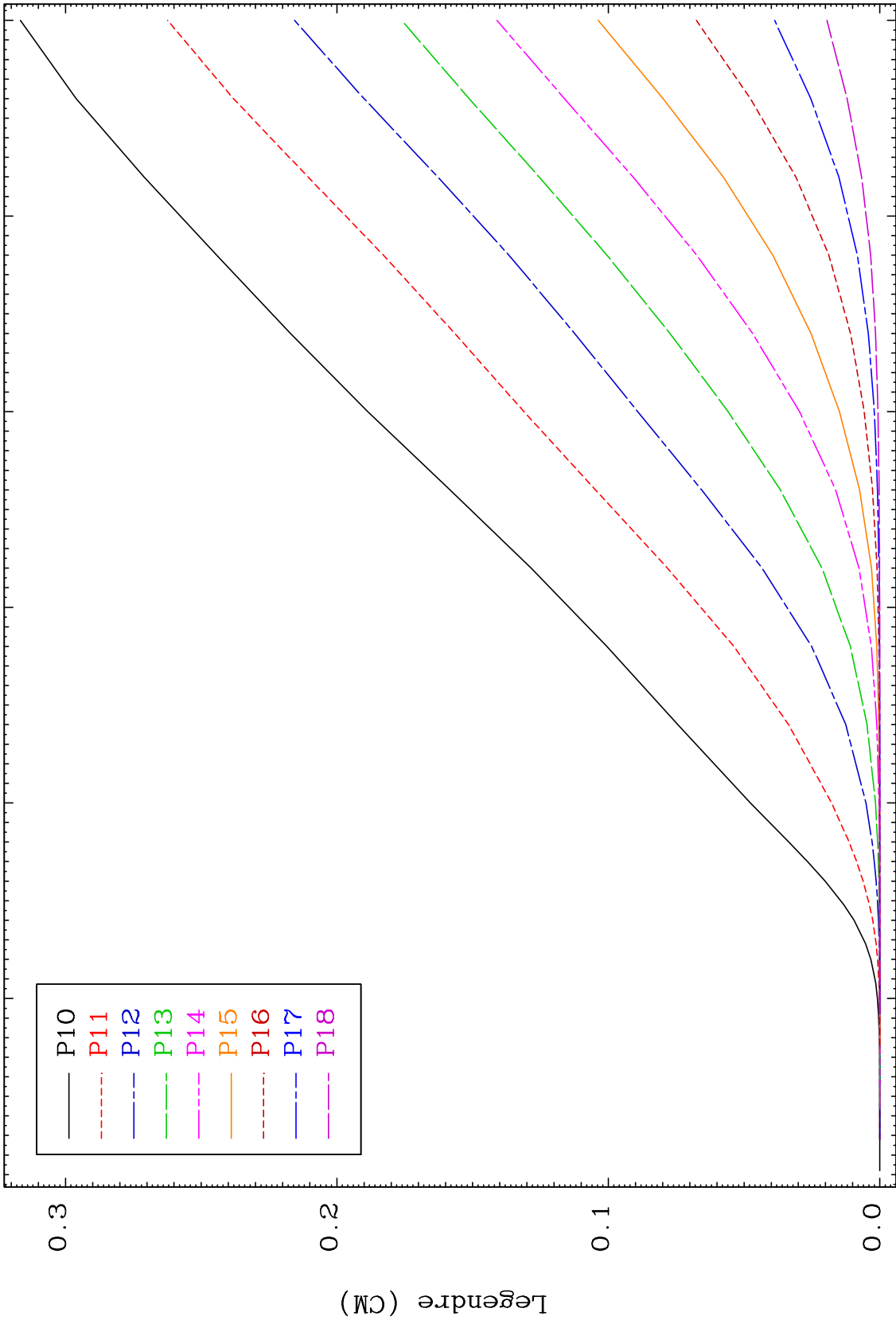




MAT 5801

Elastic Legendre Coefficients

58-Ce-128



17

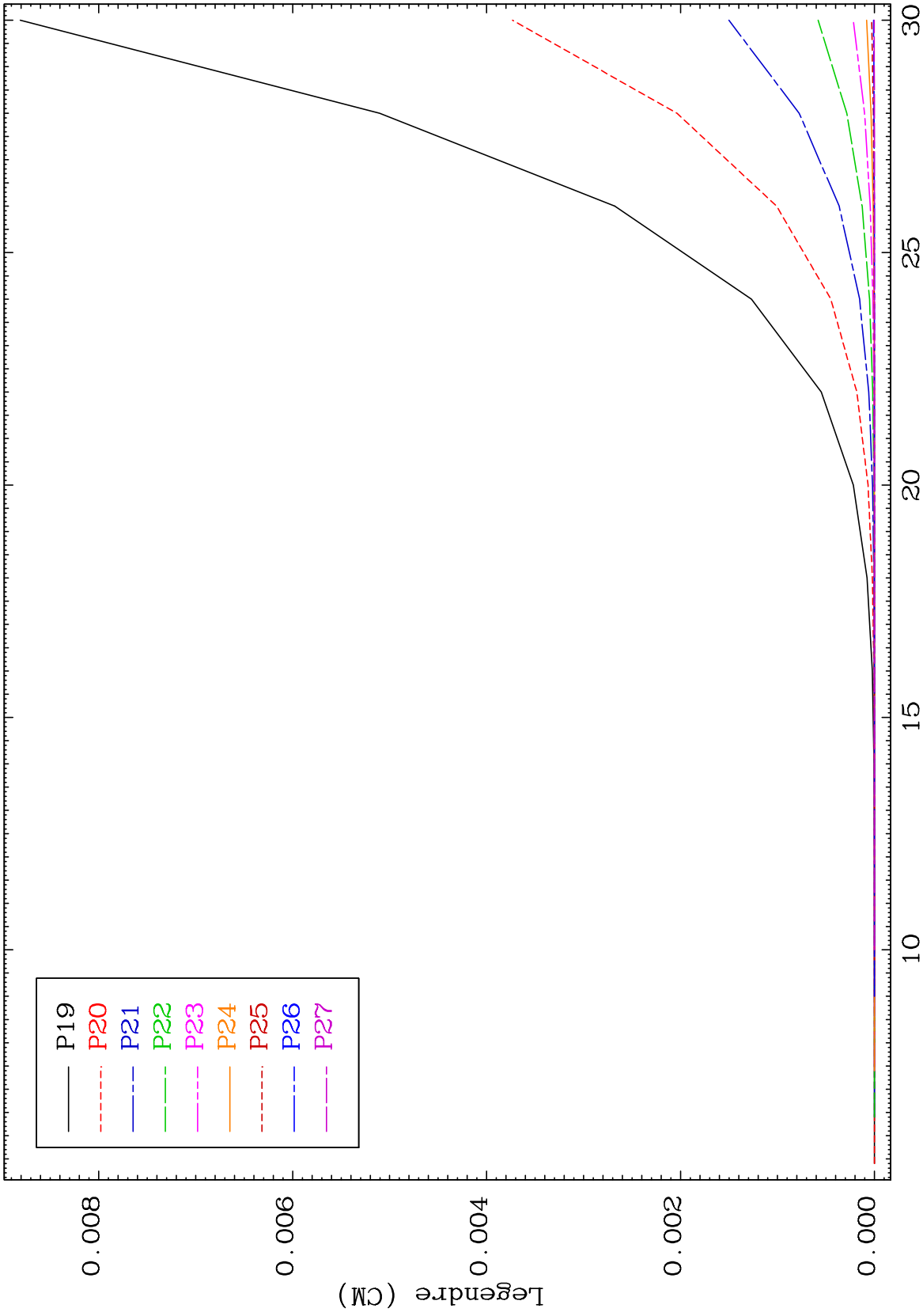
Incident Energy (MeV)

58-Ce-128

MAT 5801

### Elastic Legendre Coefficients

58-Ce-128



18

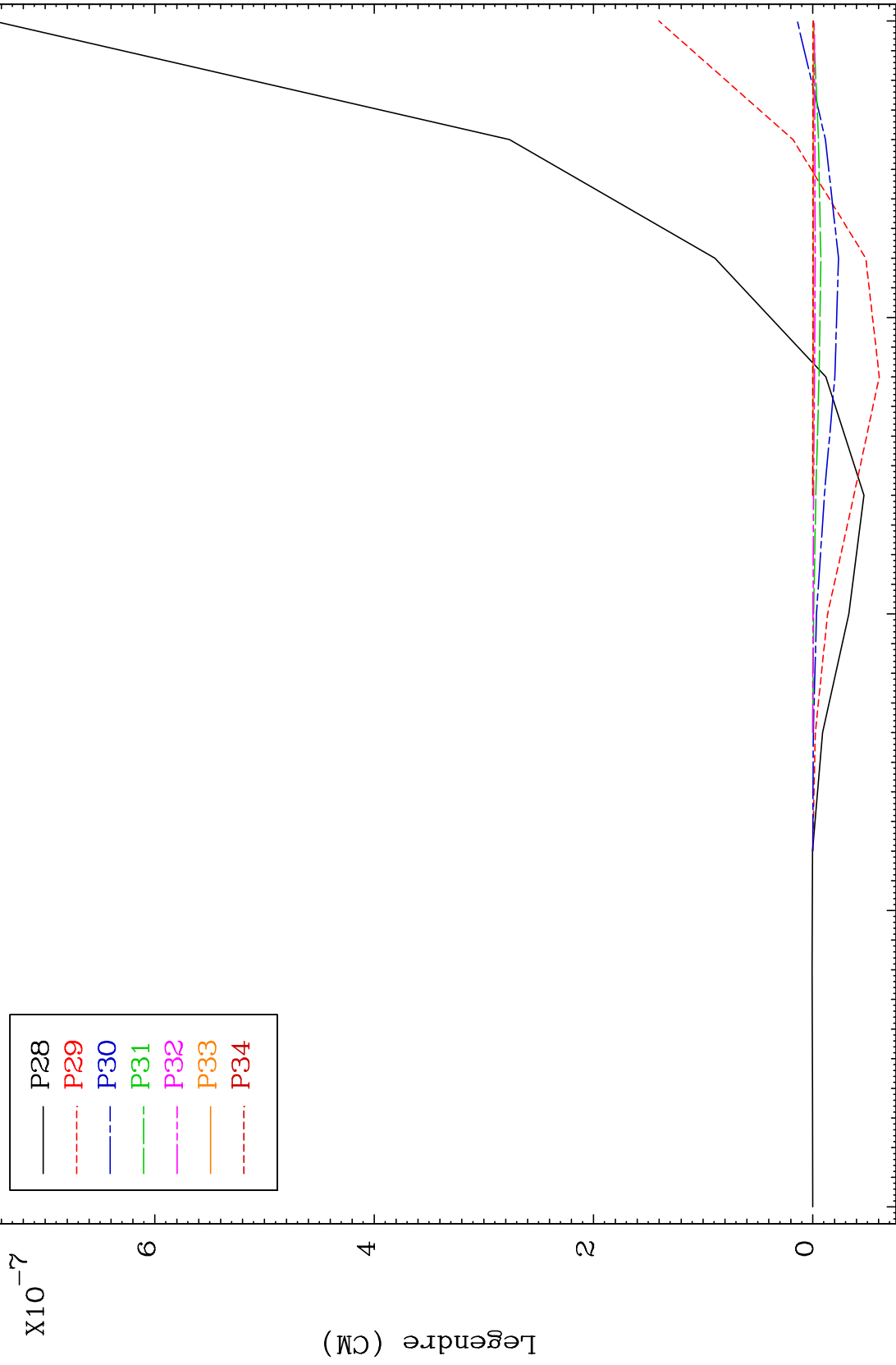
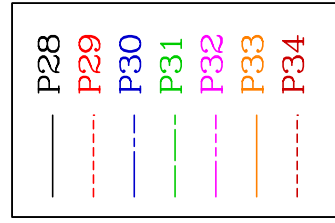
Incident Energy (MeV)

58-Ce-128

MAT 5801

Elastic  
Legendre Coefficients

58-Ce-128



19

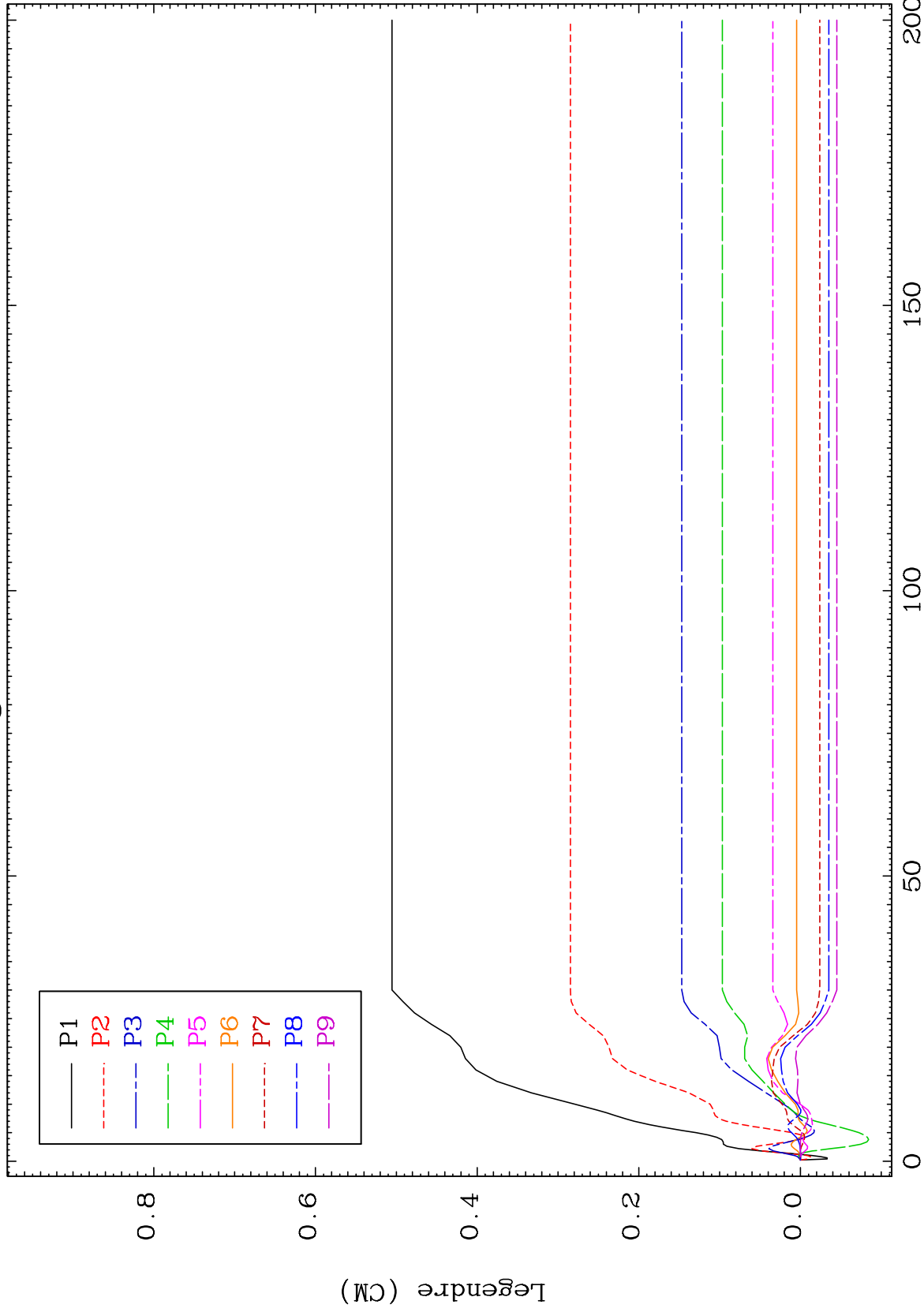
Incident Energy (MeV)

58-Ce-128

MAT 5801

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

58-Ce-128



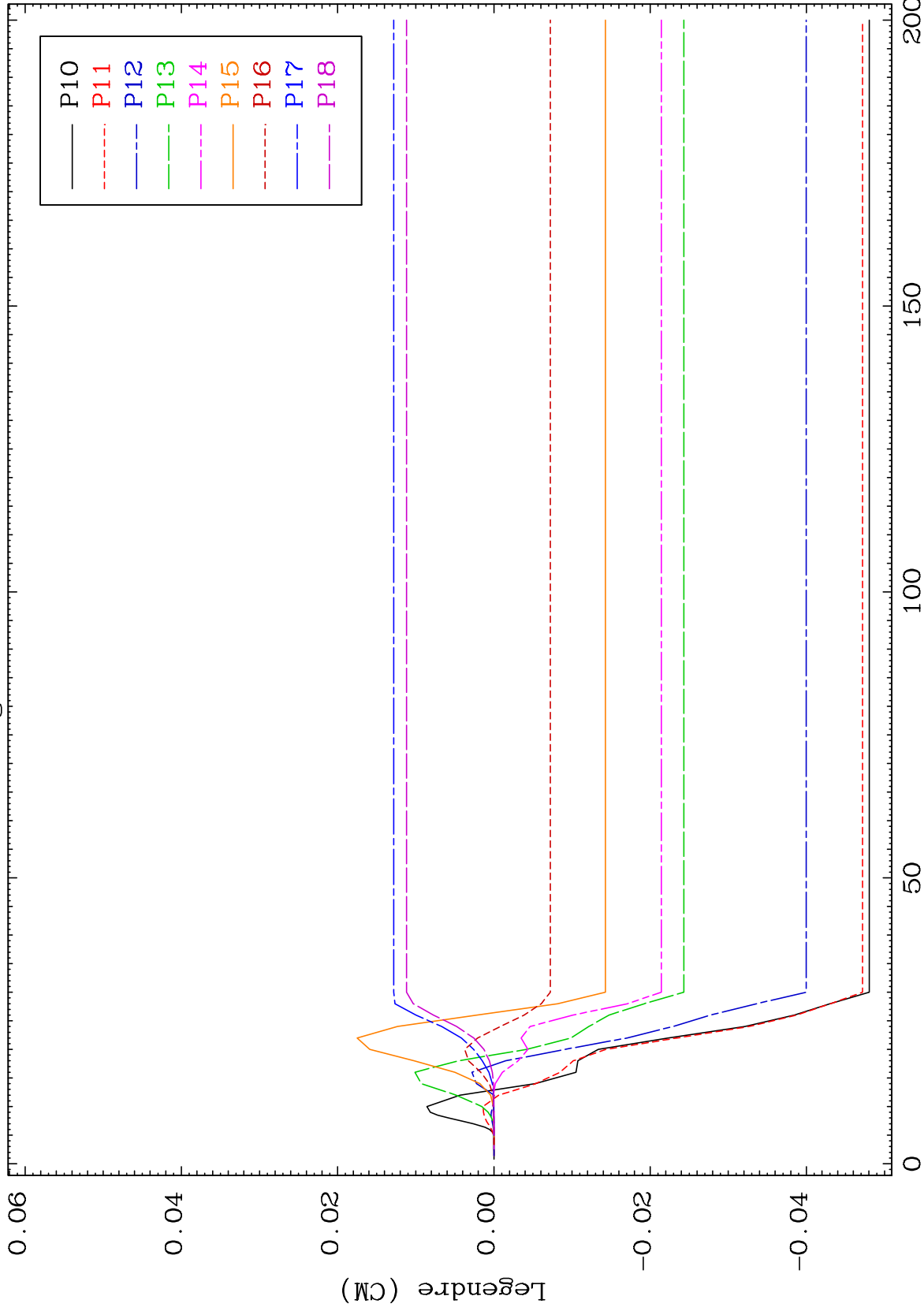
58-Ce-128

Incident Energy (MeV)

MAT 5801

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

58-Ce-128



21

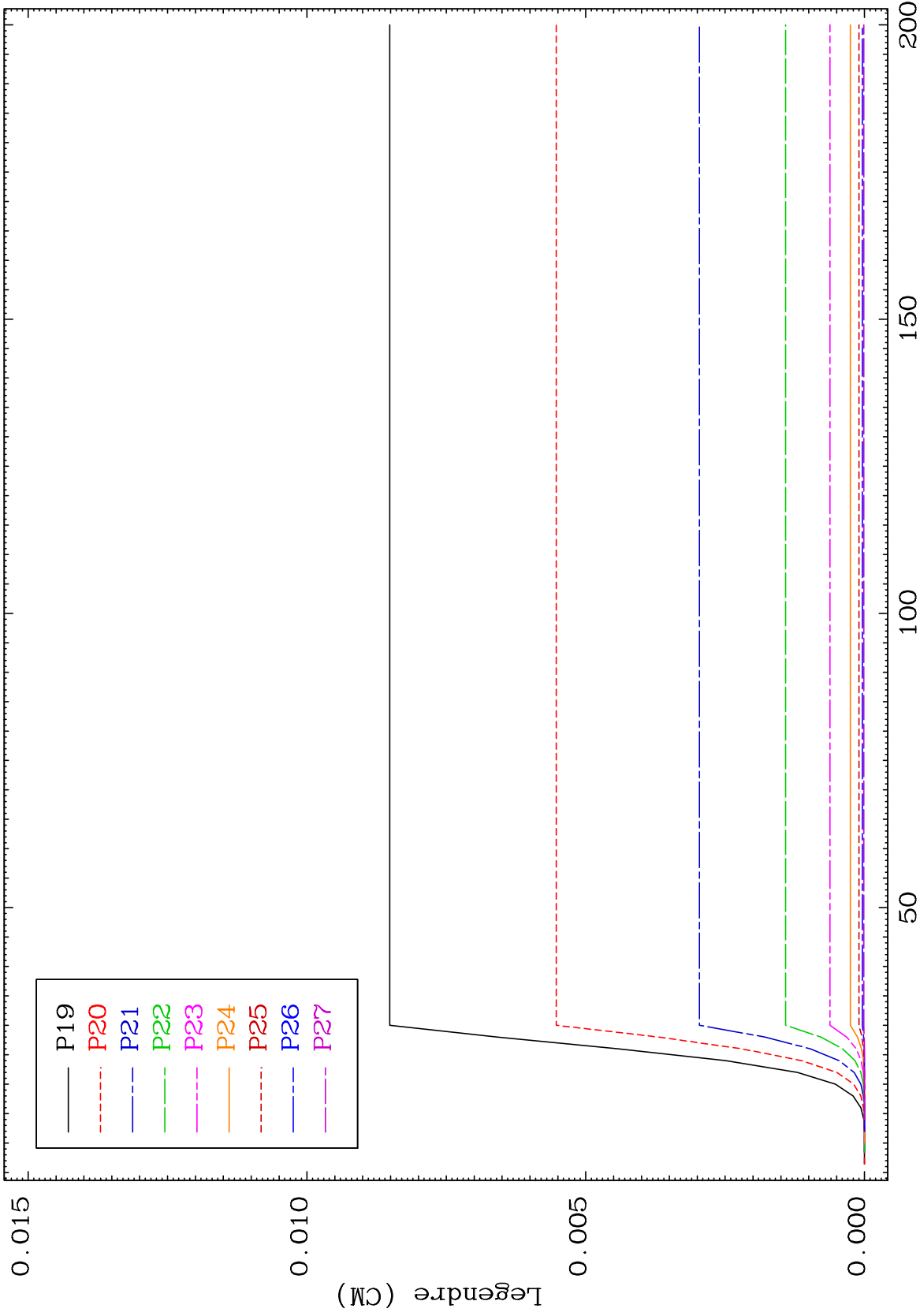
Incident Energy (MeV)

58-Ce-128

MAT 5801

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

58-Ce-128



22

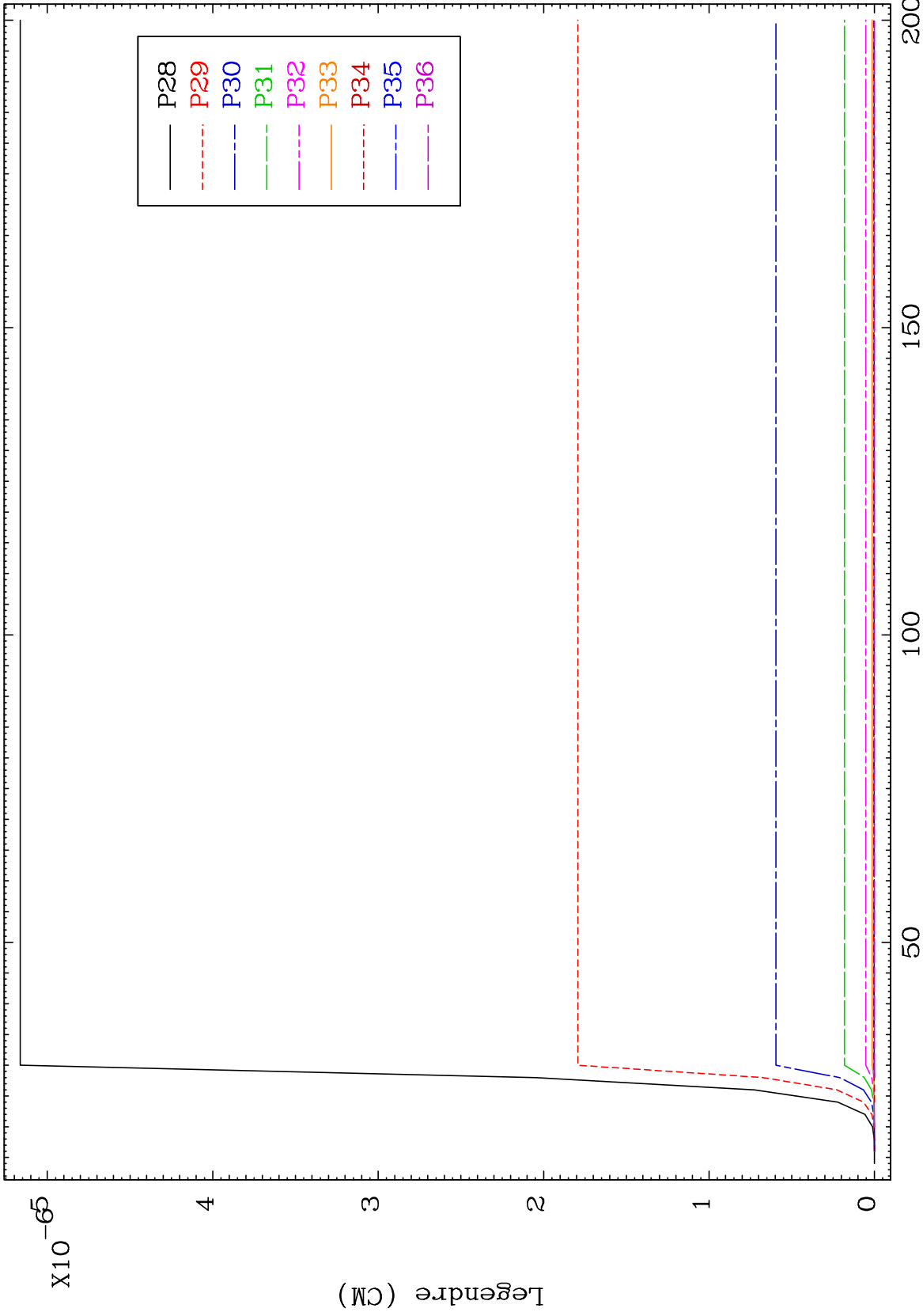
Incident Energy (MeV)

58-Ce-128

MAT 5801

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

58-Ce-128



23

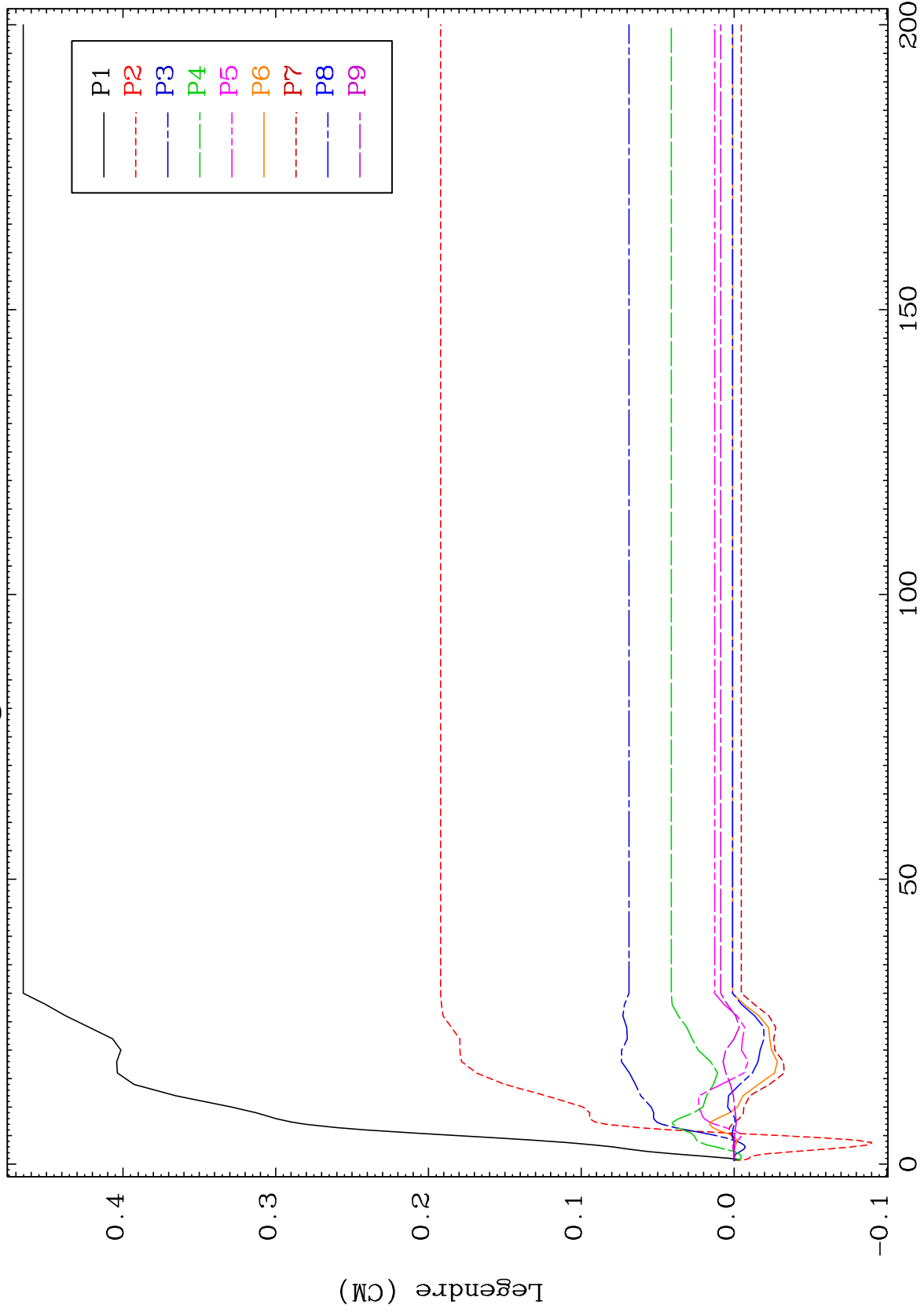
58-Ce-128



MAT 5801

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

58-Ce-128



24

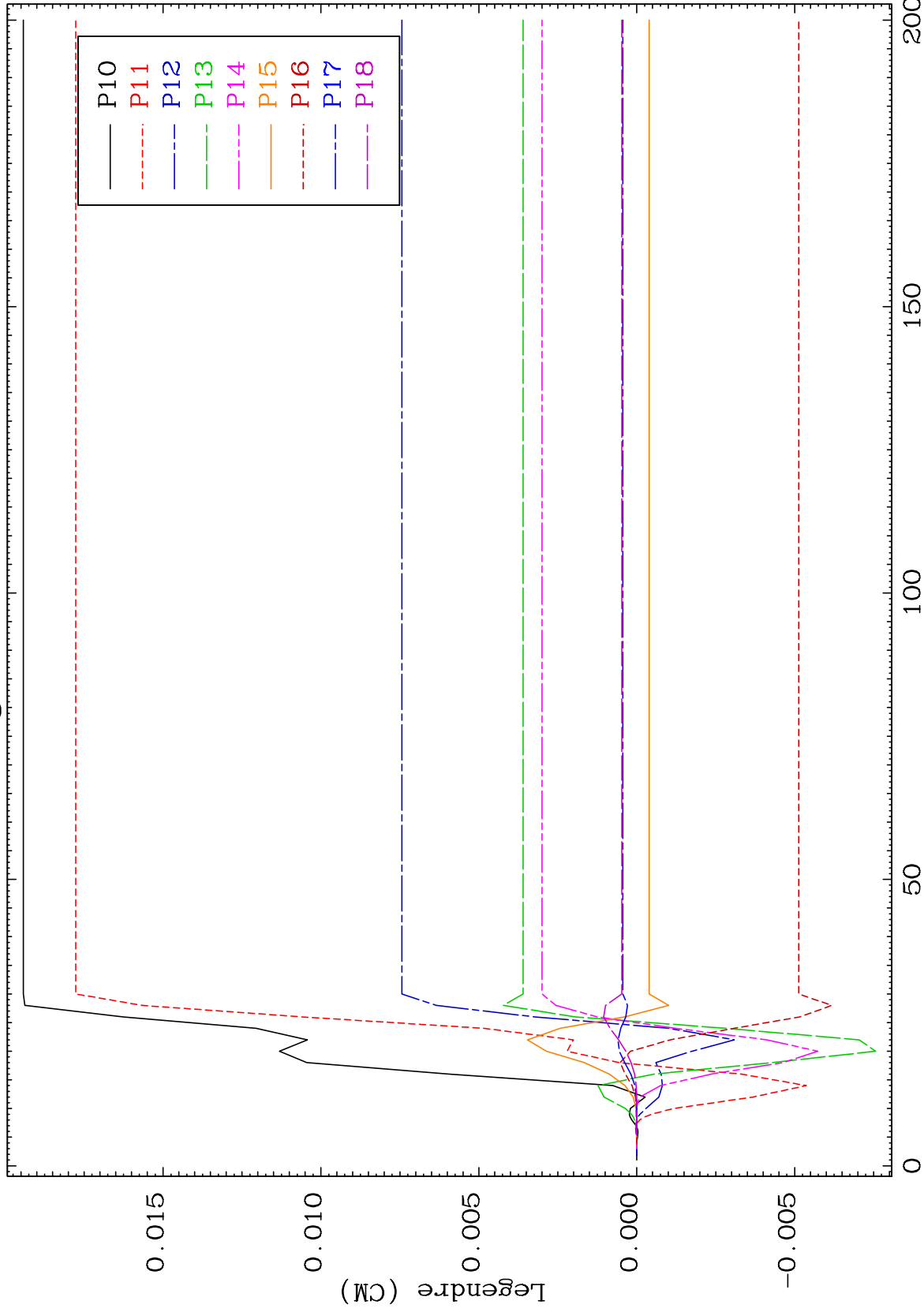
Incident Energy (MeV)

58-Ce-128

MAT 5801

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

58-Ce-128



25

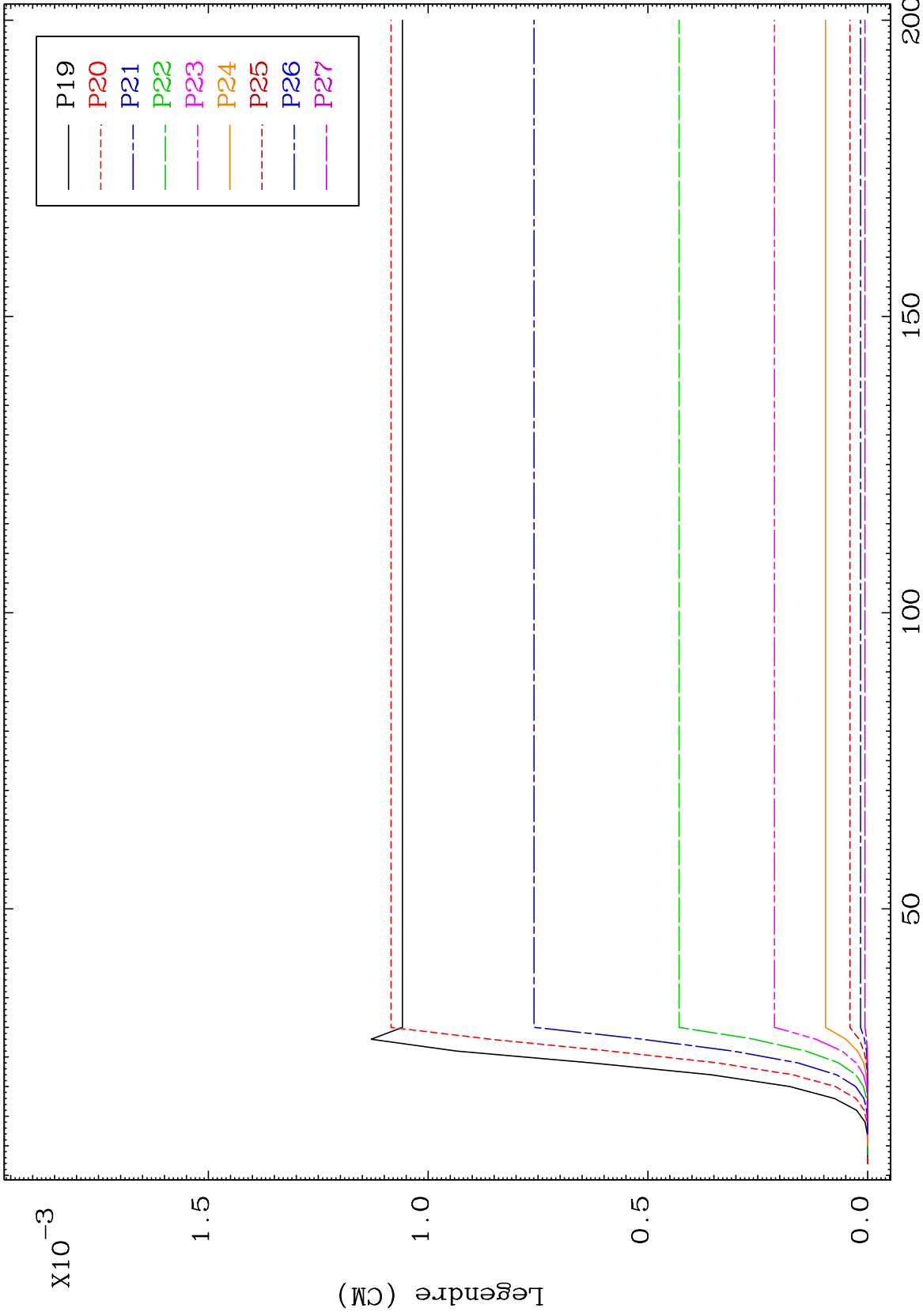
Incident Energy (MeV)

58-Ce-128

MAT 5801

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

58-Ce-128



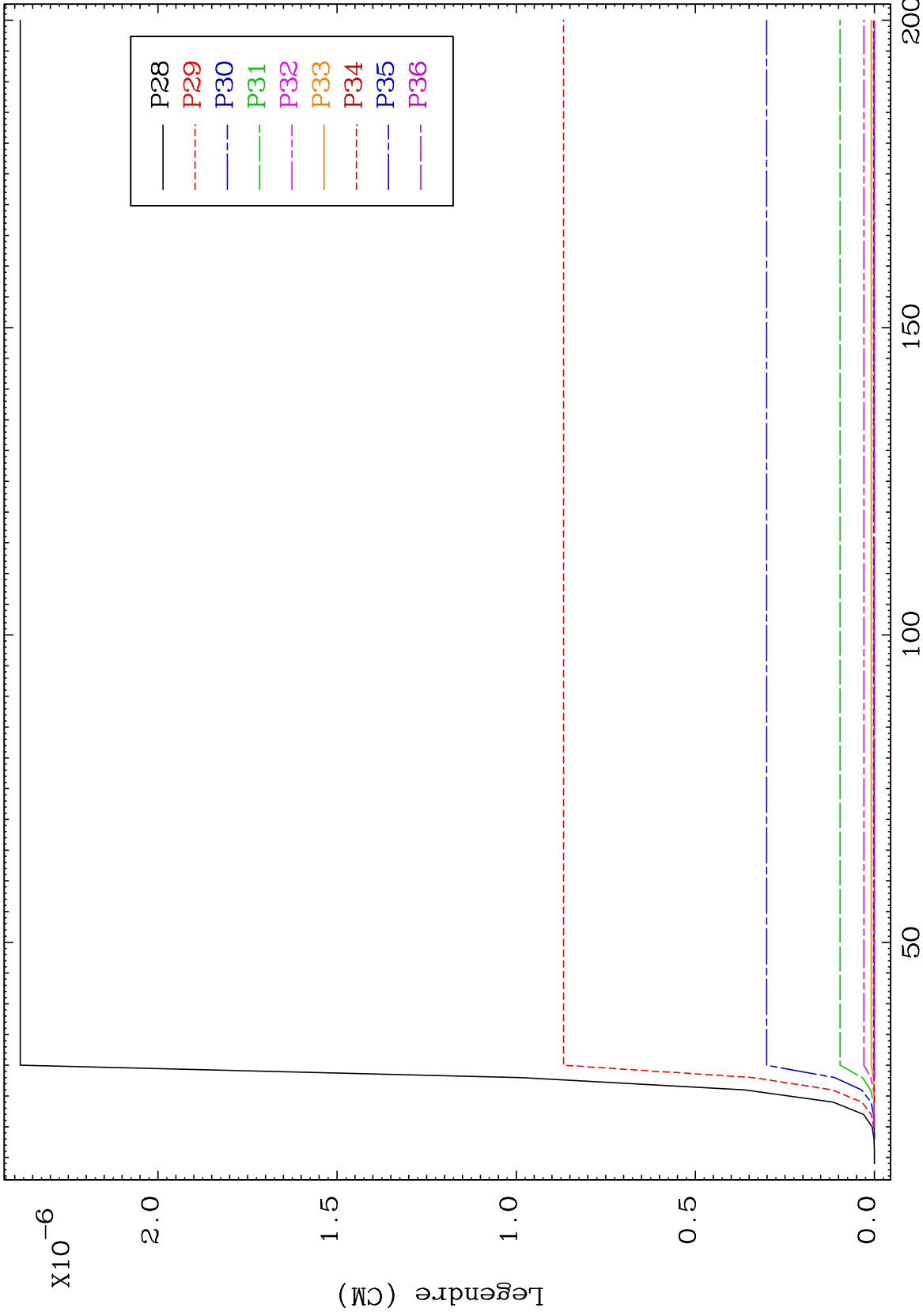
26

58-Ce-128

MAT 5801

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

58-Ce-128



27

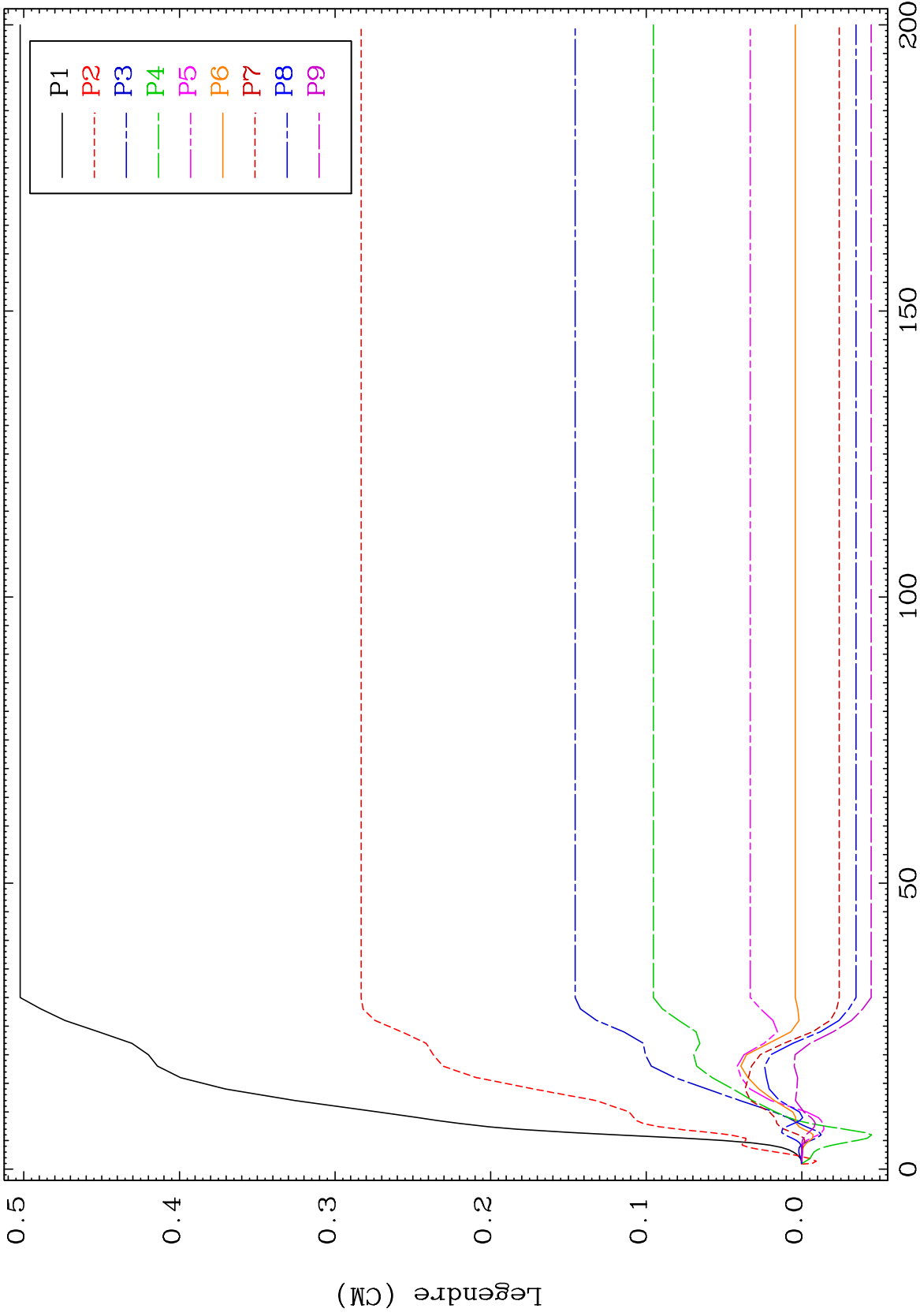
Incident Energy (MeV)

58-Ce-128

MAT 5801

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

58-Ce-128



28

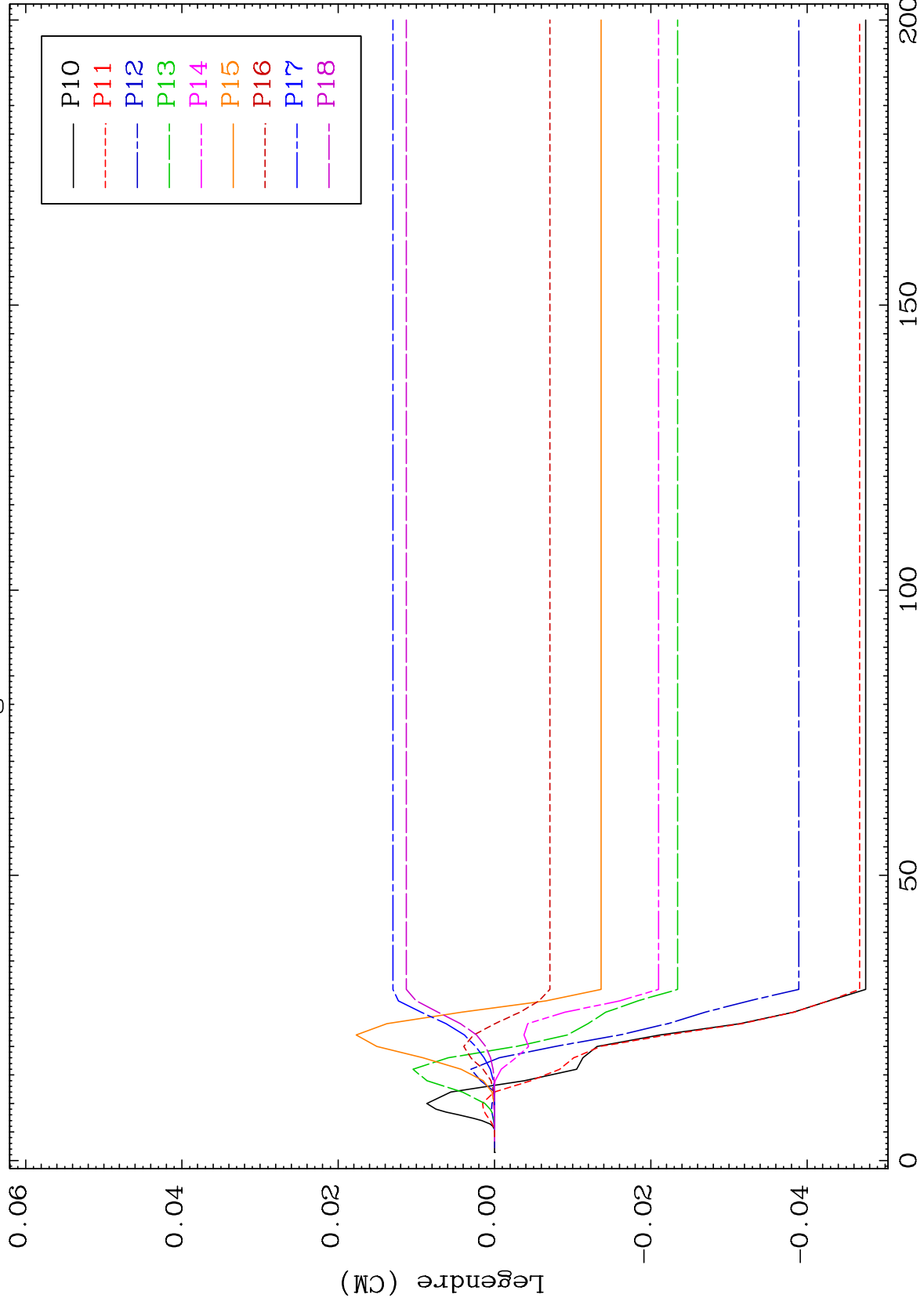
Incident Energy (MeV)

58-Ce-128

MAT 5801

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

58-Ce-128



29

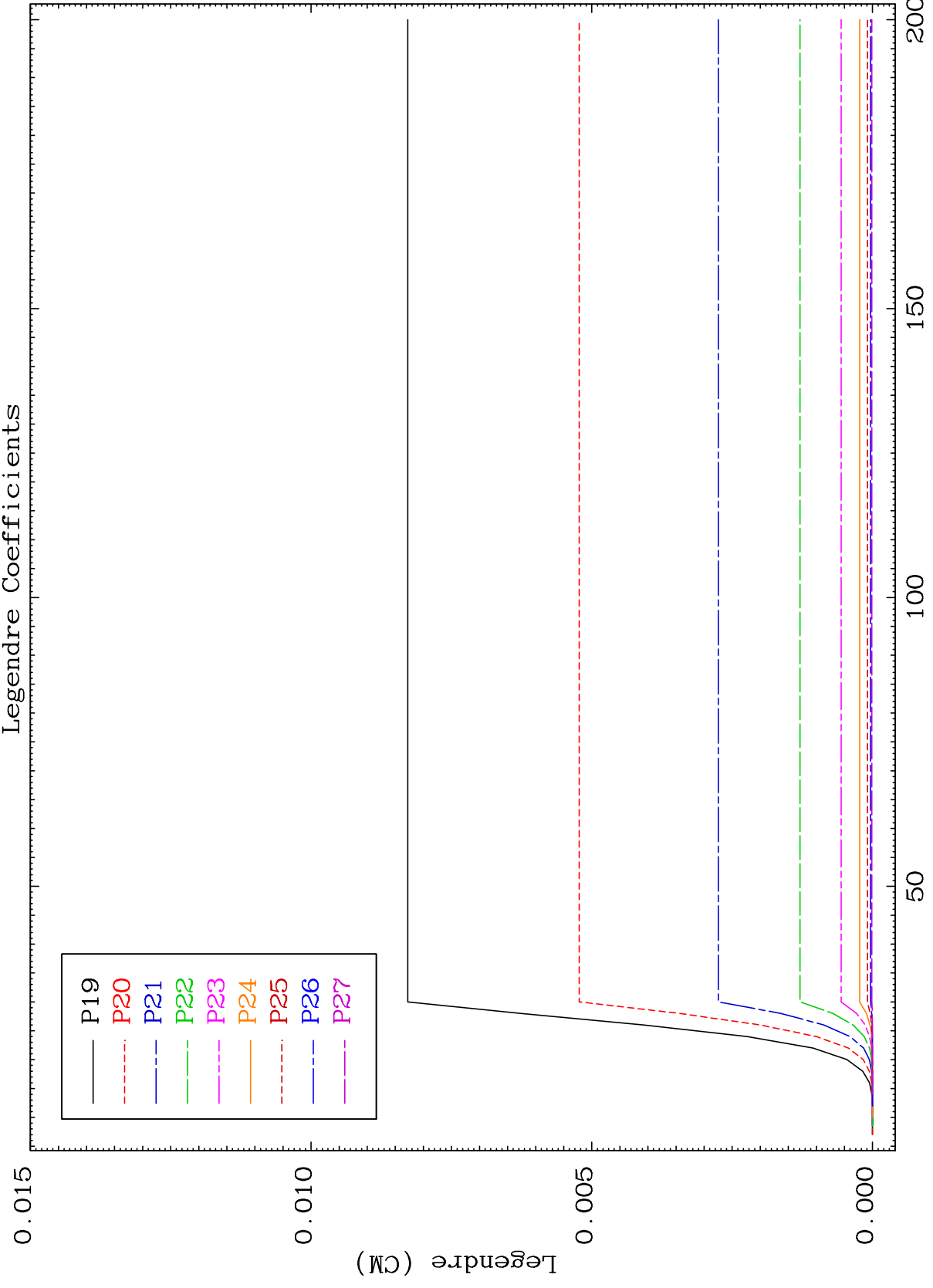
Incident Energy (MeV)

58-Ce-128

MAT 5801 MT= 53 (n,n') Level Legendre Coefficients

58-Ce-128

58-Ce-128



30

50

100

150

200

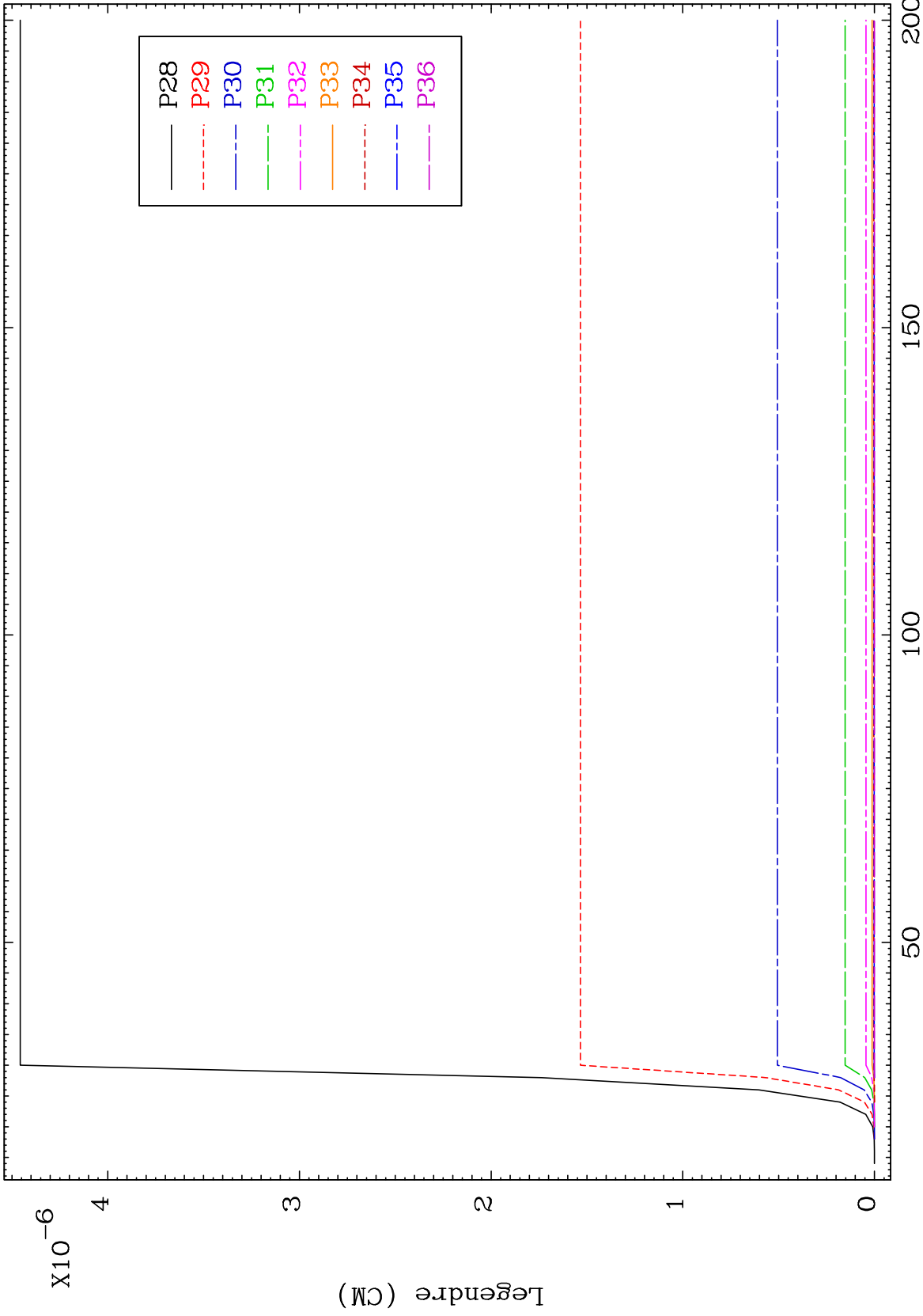
Legendre (CM)

Incident Energy (MeV)

MAT 5801

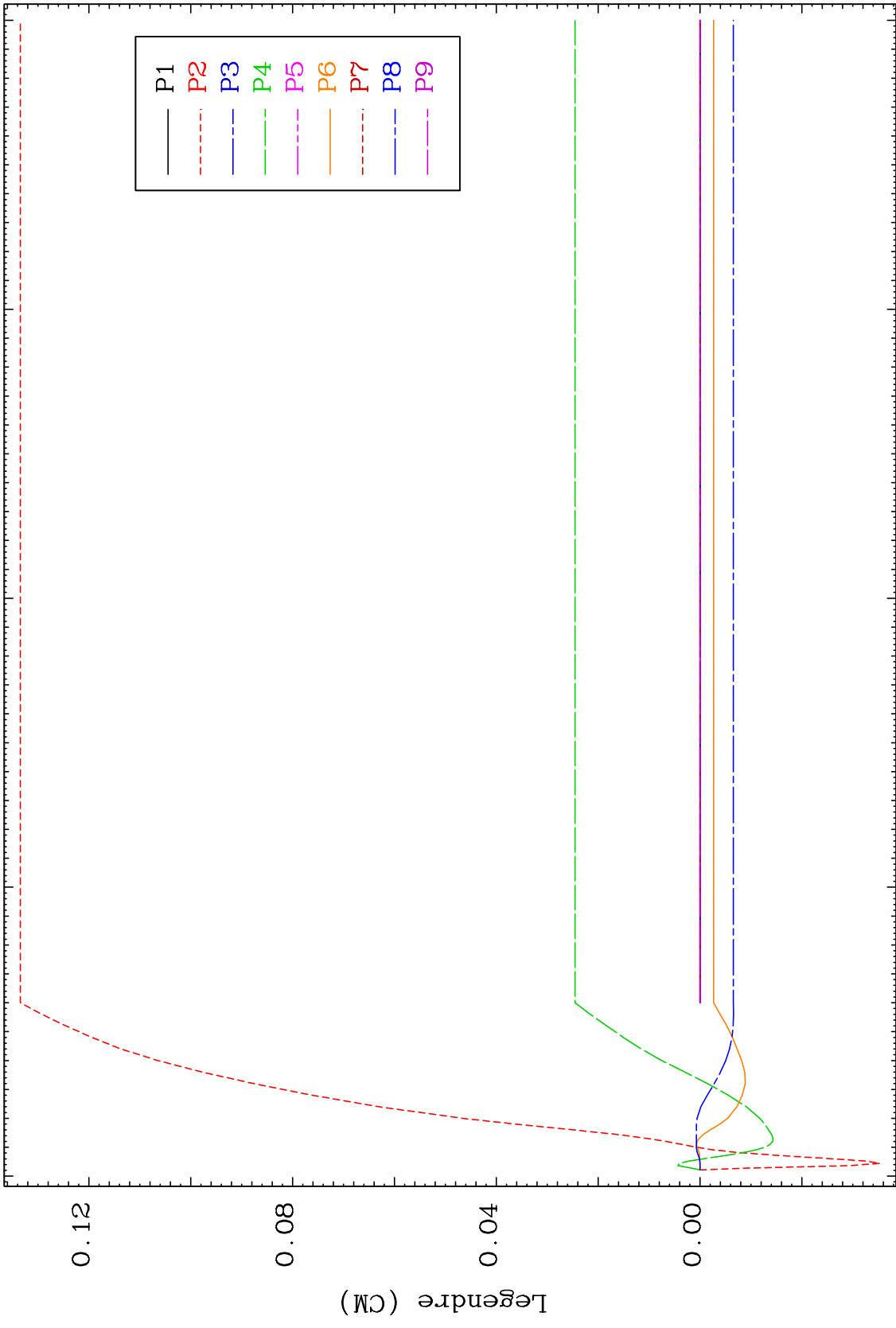
MT= 53 (n,n') Level  
Legendre Coefficients

58-Ce-128





MAT 5801 MT= 54 (n,n') Level Legendre Coefficients 58-Ce-128

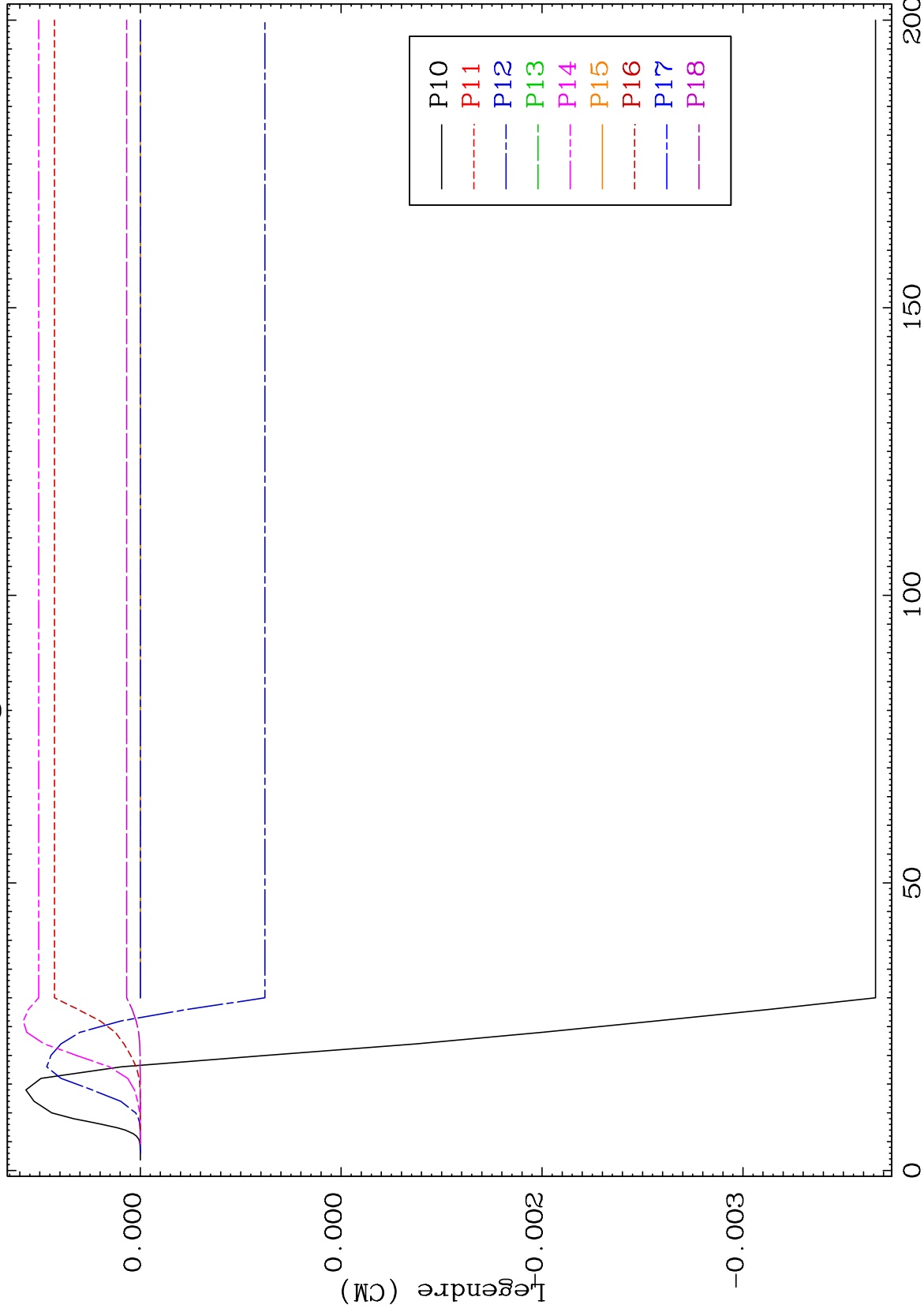


32 58-Ce-128

MAT 5801

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

58-Ce-128



33

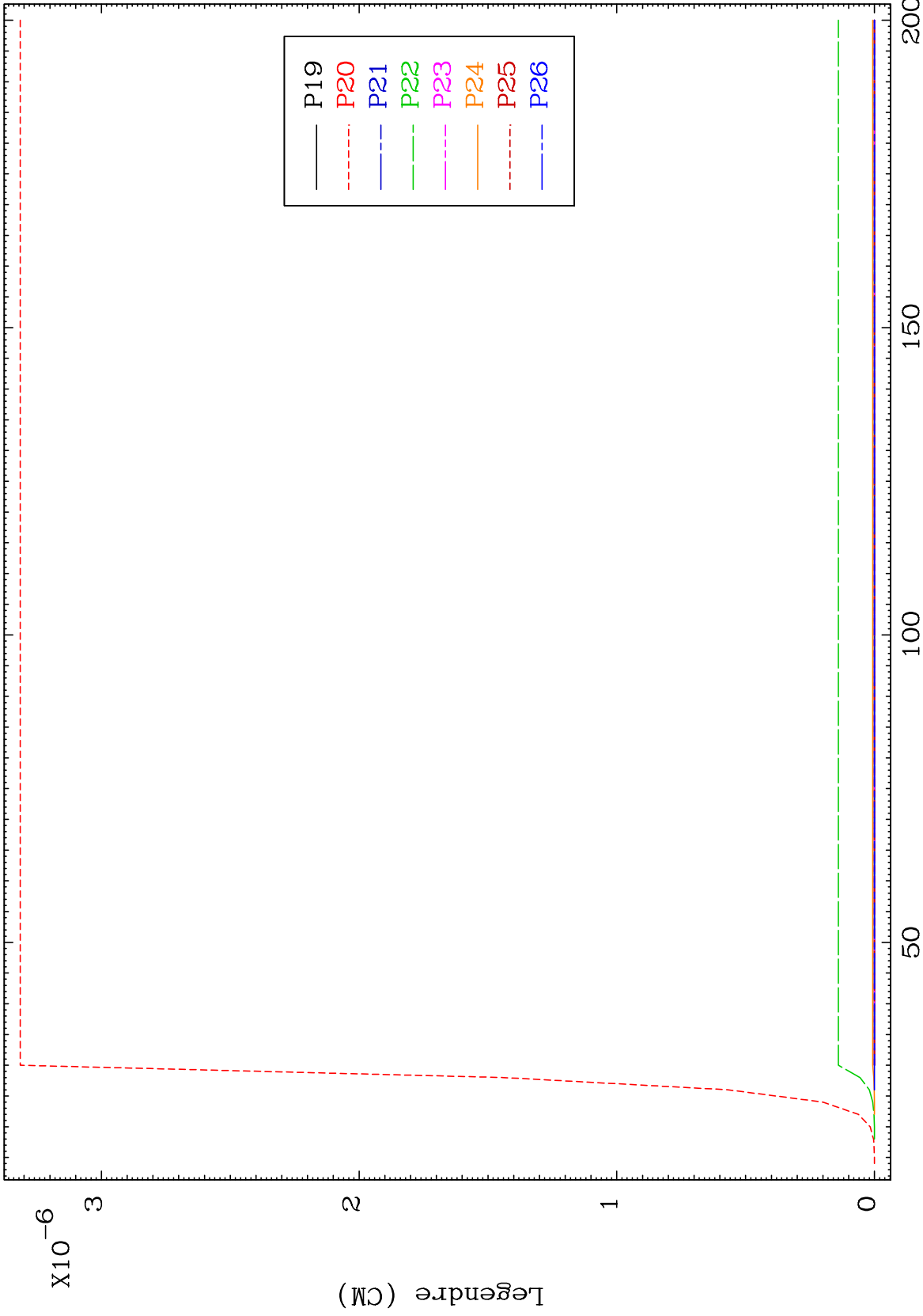
Incident Energy (MeV)

58-Ce-128

MAT 5801

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

58-Ce-128

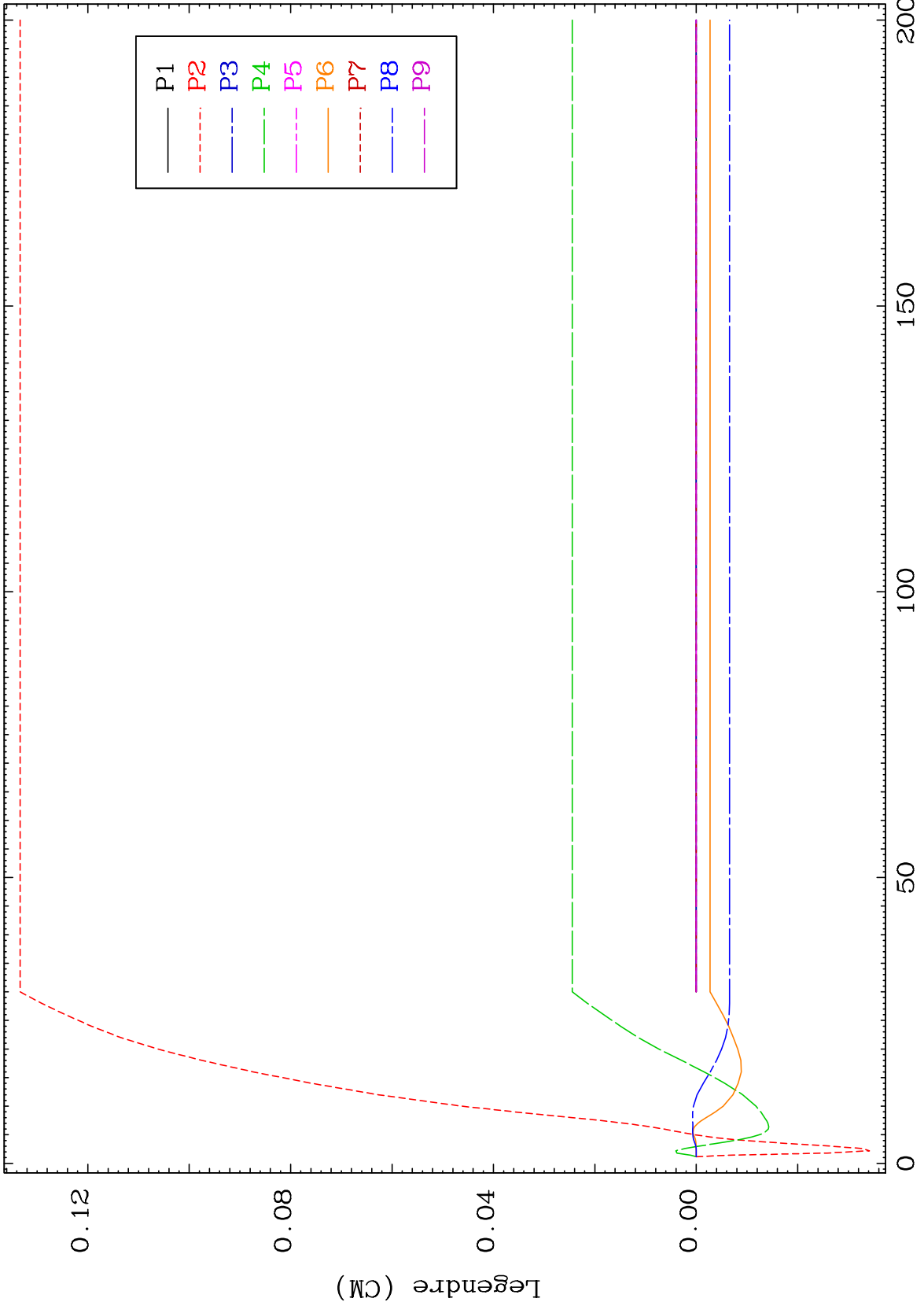


34

Incident Energy (MeV)

58-Ce-128

MAT 5801 MT= 55 (n,n') Level Legendre Coefficients 58-Ce-128

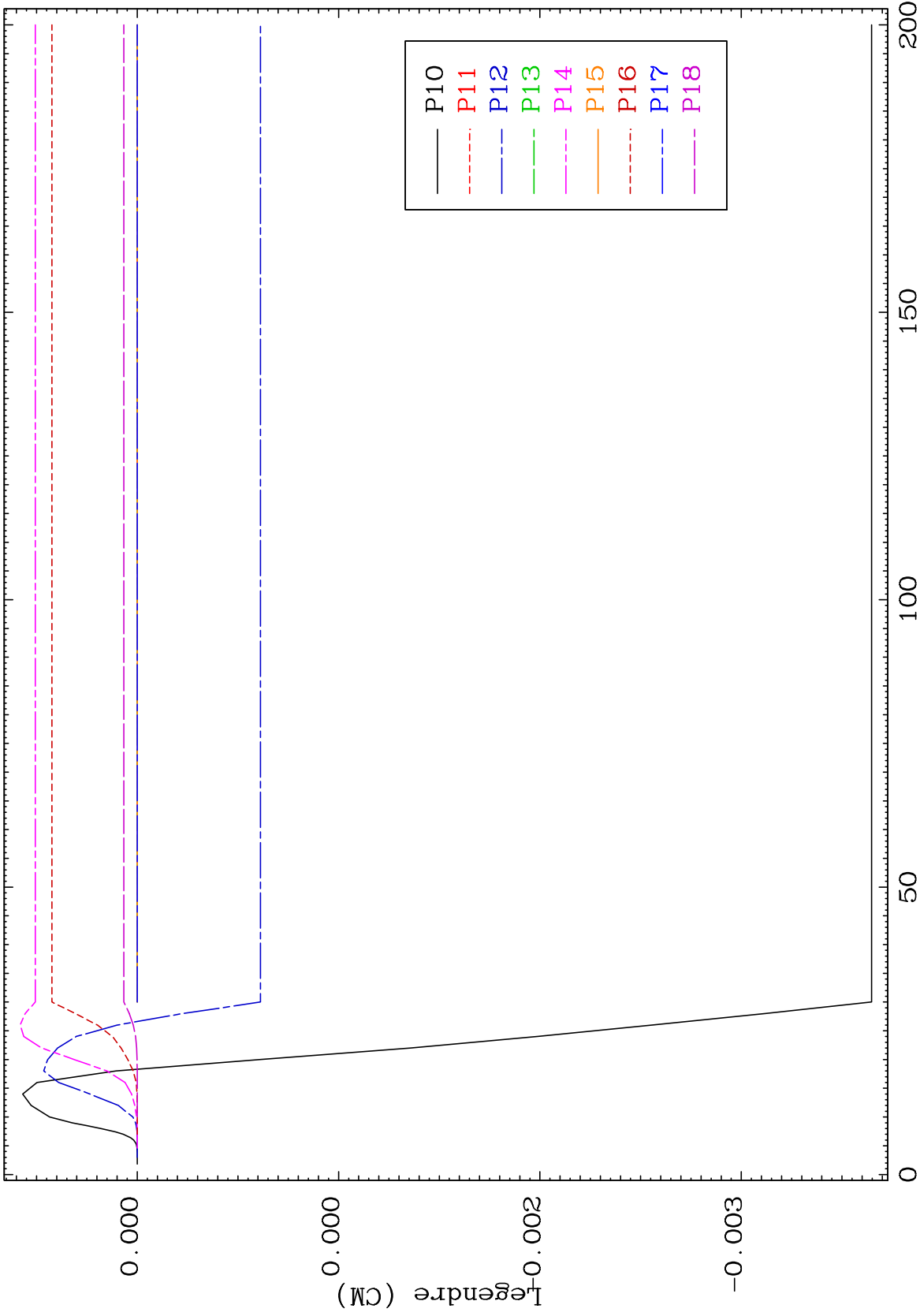


58-Ce-128

MAT 5801

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

58-Ce-128

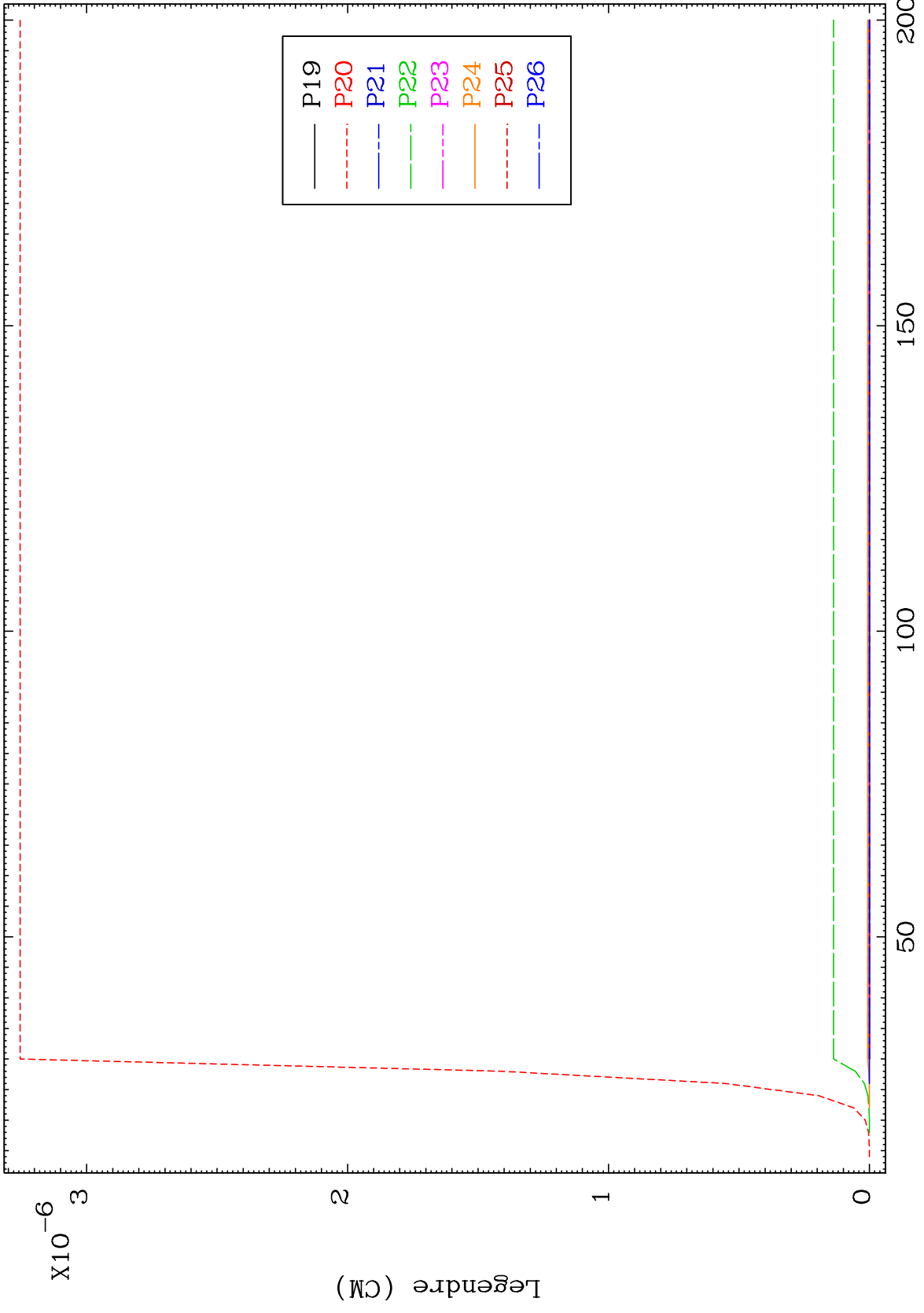


36

Incident Energy (MeV)

58-Ce-128

MAT 5801 MT= 55 (n,n') Level Legendre Coefficients 58-Ce-128

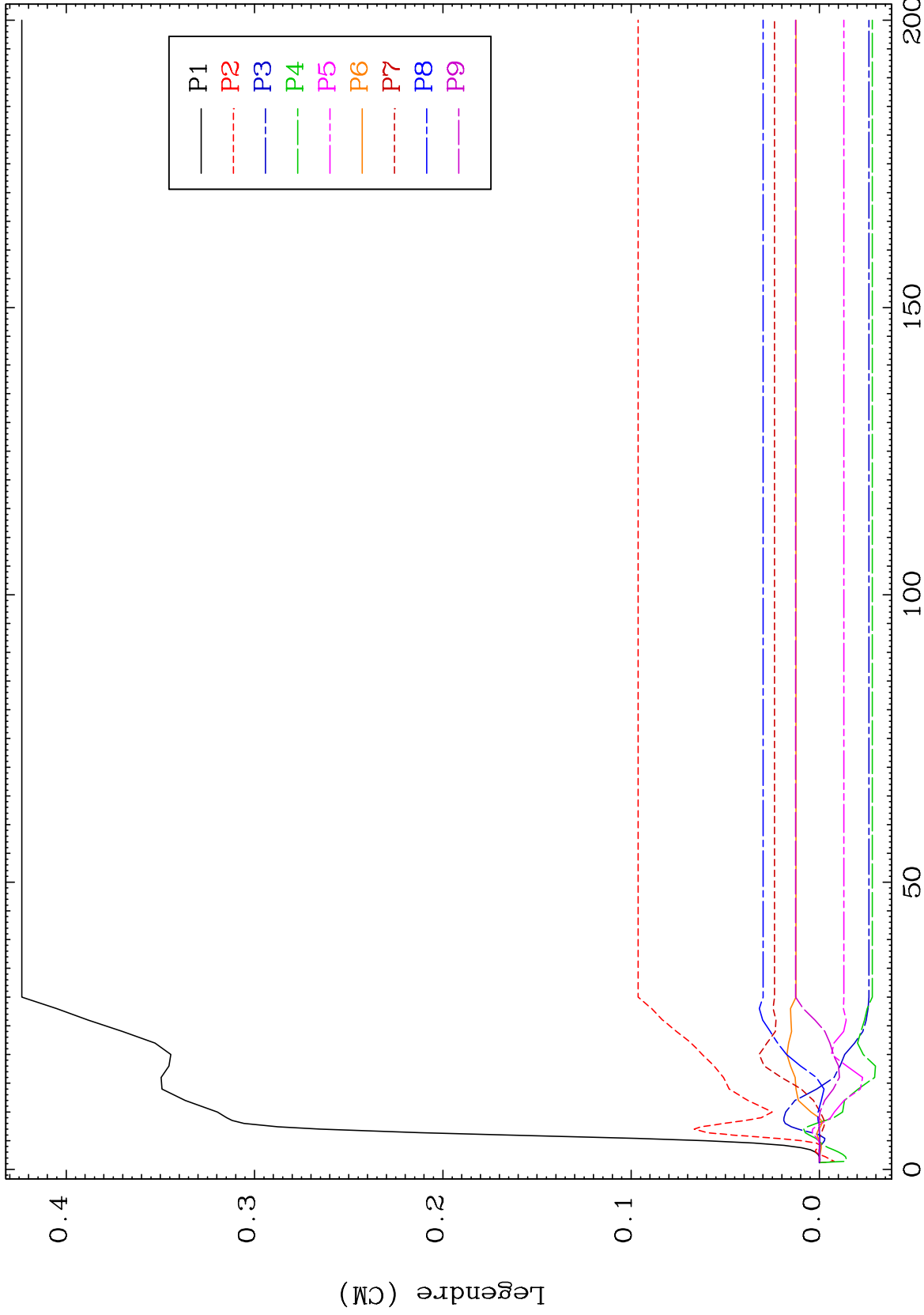


37 50 100 150 200 58-Ce-128

MAT 5801

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

58-Ce-128



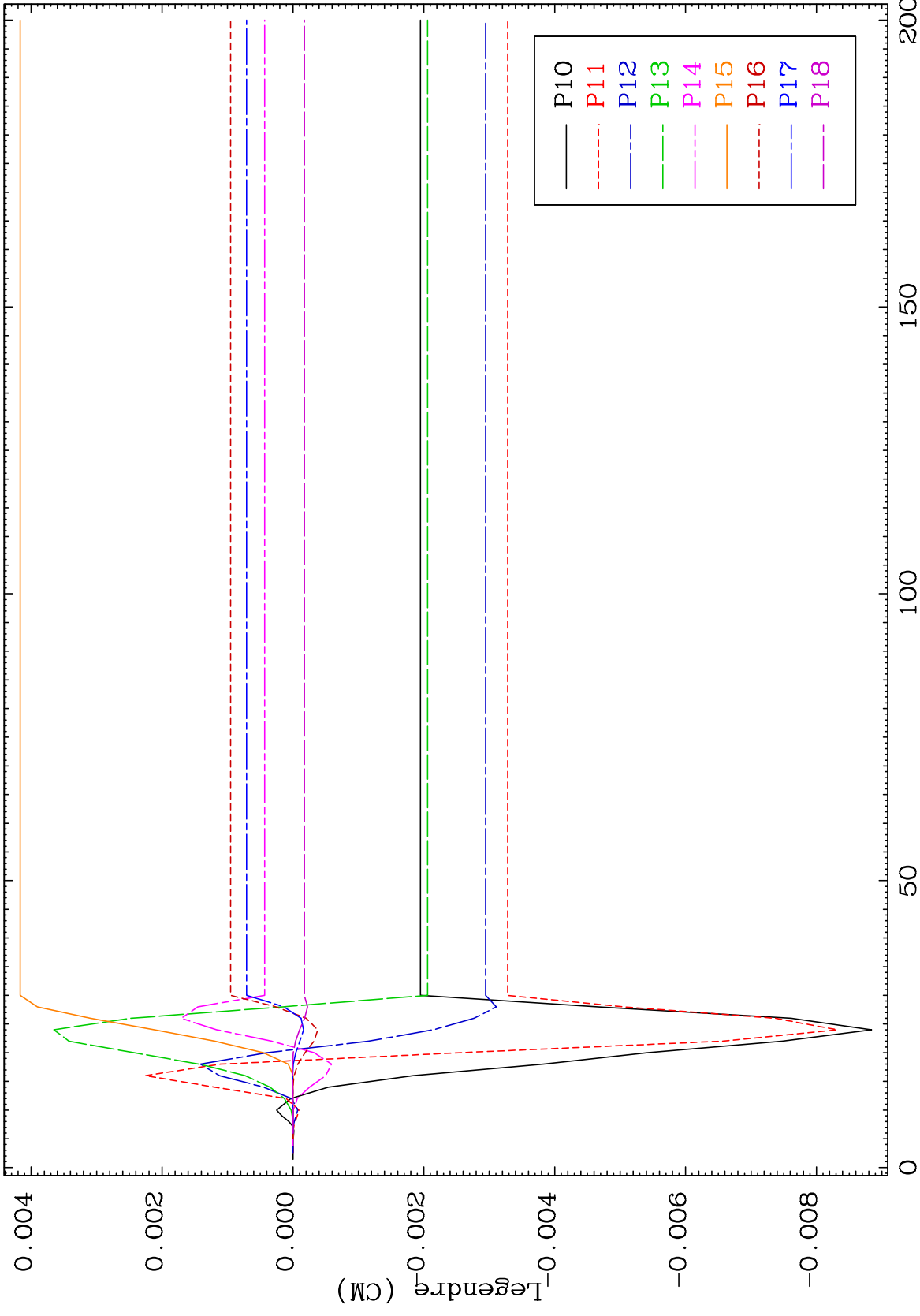
38

Incident Energy (MeV)

58-Ce-128

MAT 5801 MT= 56 (n,n') Level Legendre Coefficients

58-Ce-128



58-Ce-128

Incident Energy (MeV)

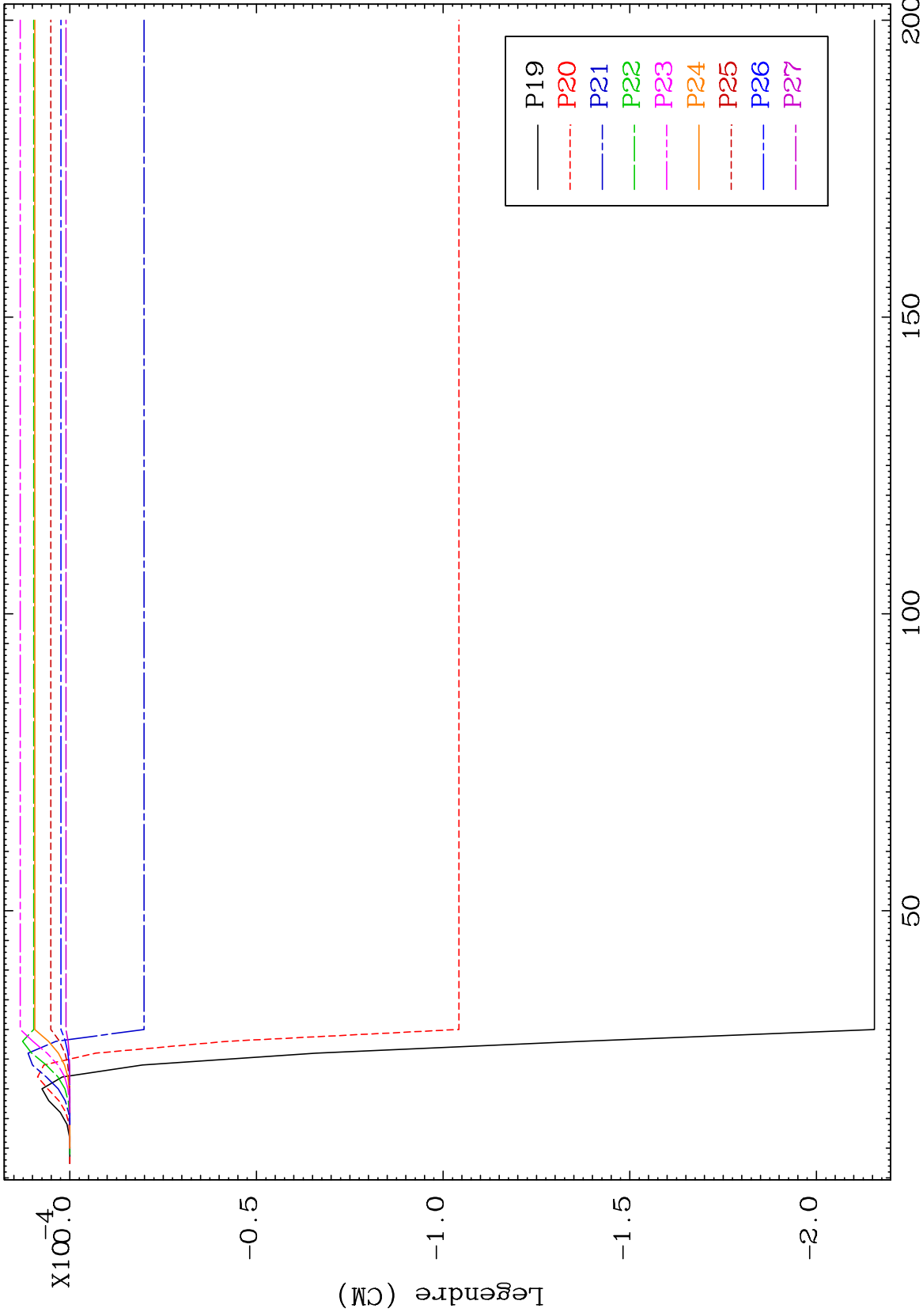
39



MAT 5801

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

58-Ce-128



58-Ce-128

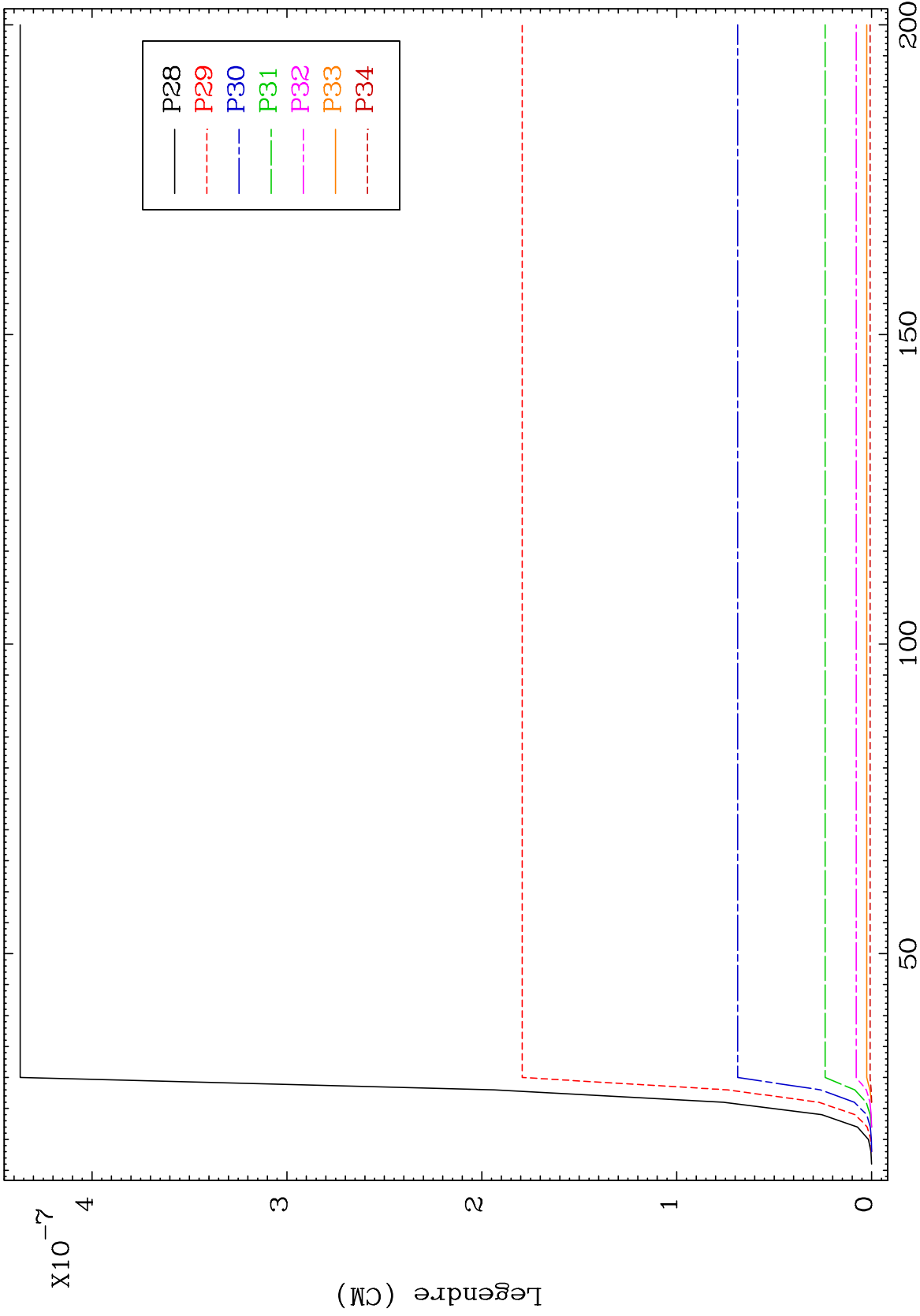
Incident Energy (MeV)

40

MAT 5801

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

58-Ce-128



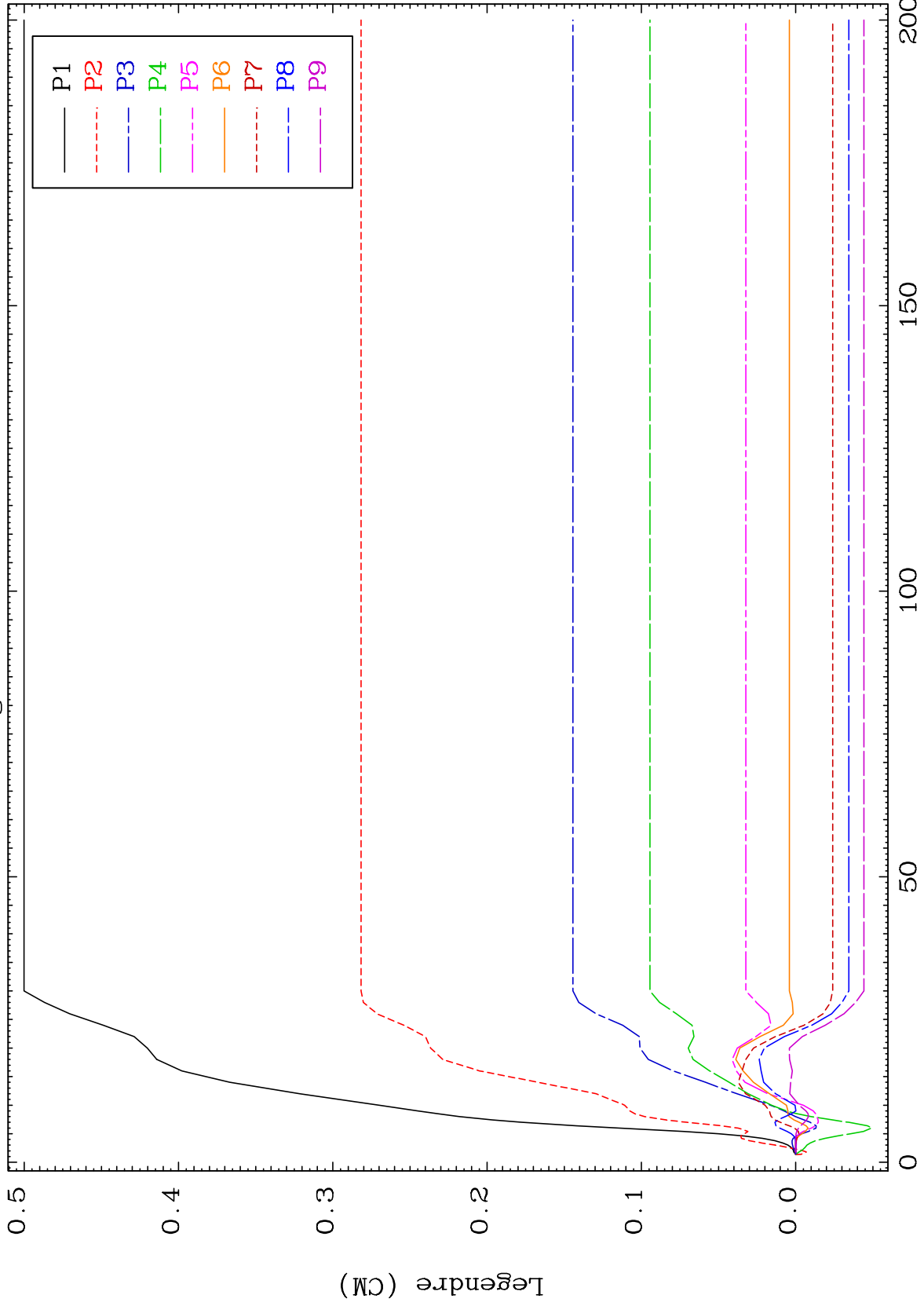
41

58-Ce-128

MAT 5801

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

58-Ce-128



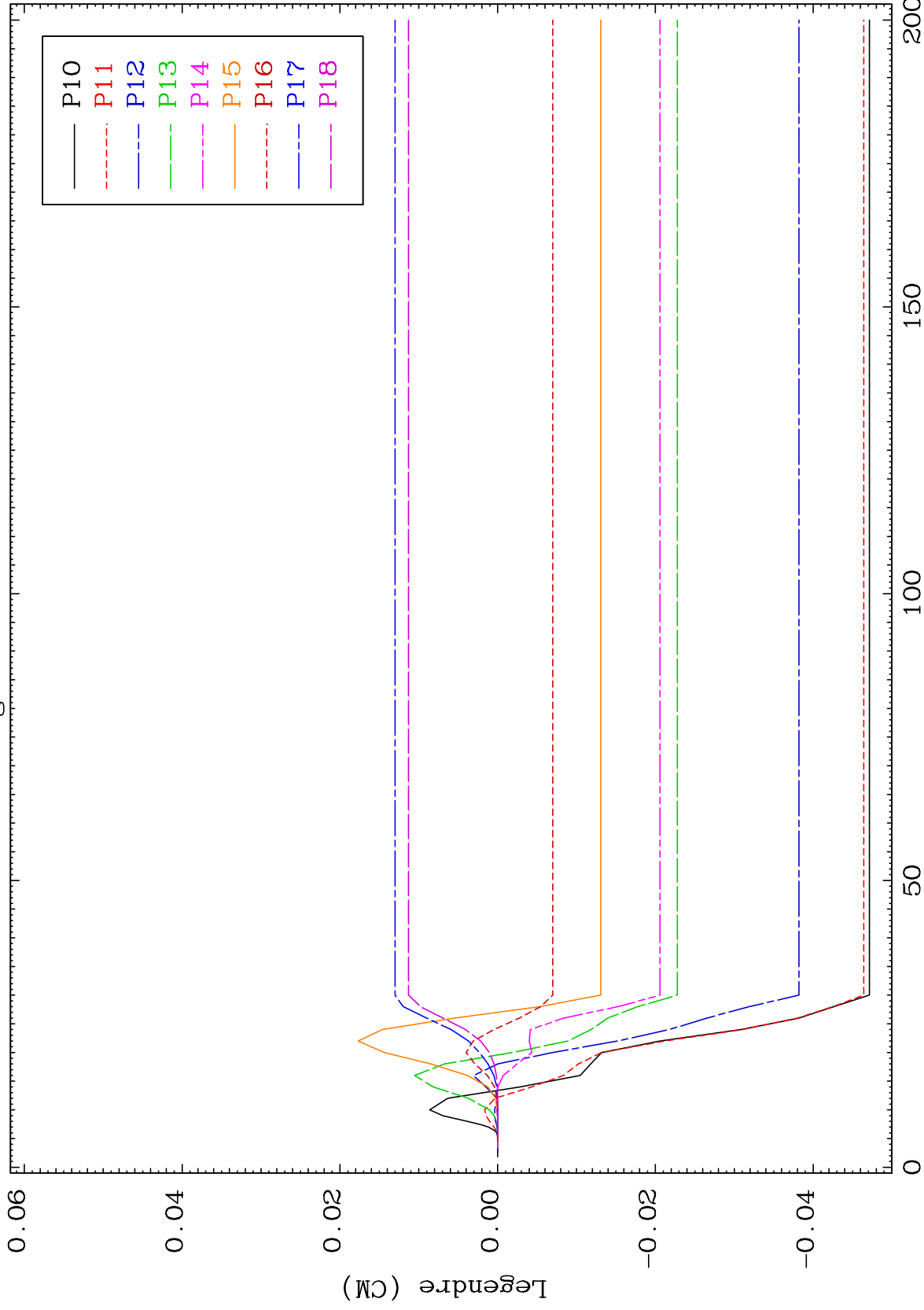
42

58-Ce-128

MAT 5801

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

58-Ce-128



43

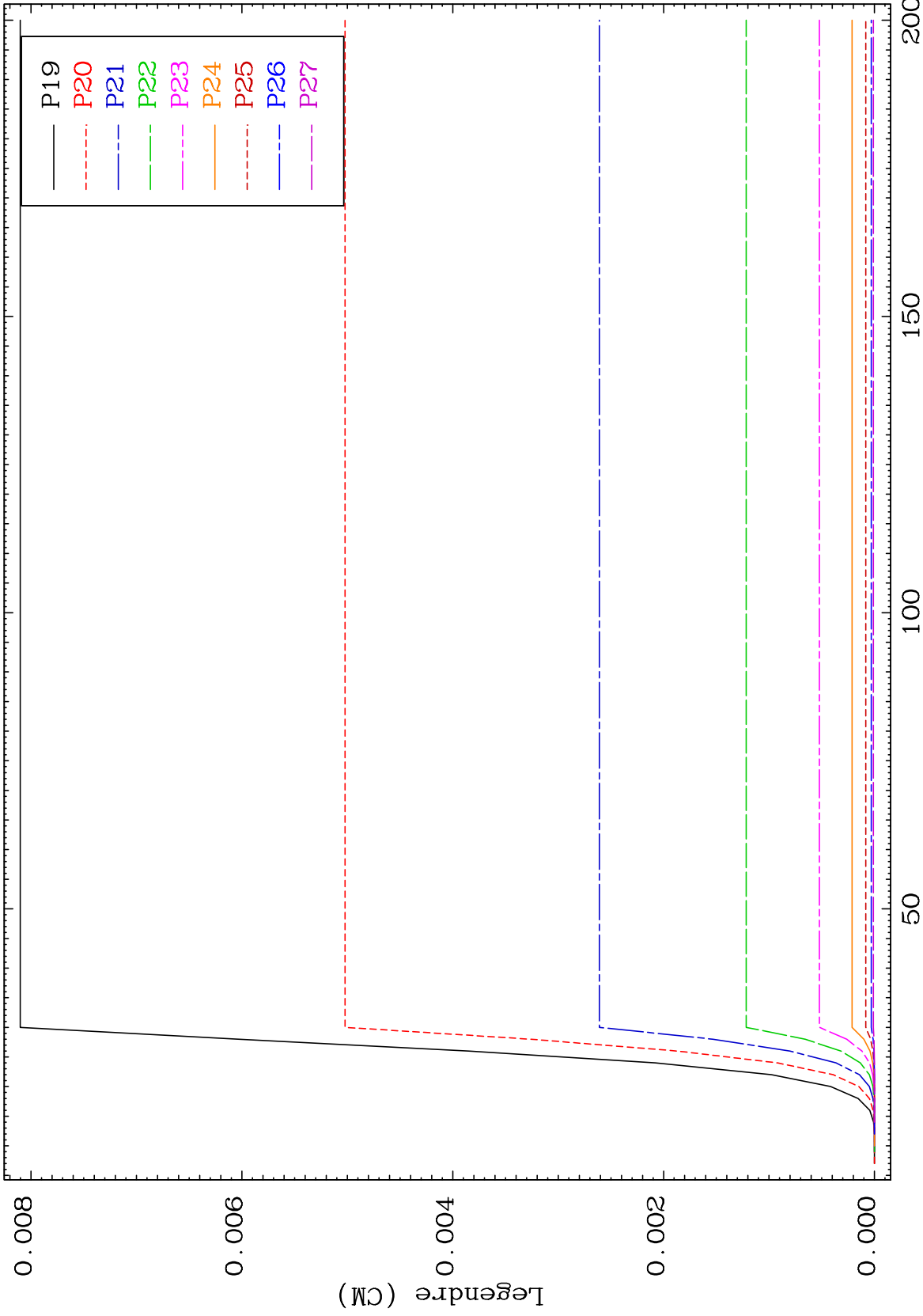
Incident Energy (MeV)

58-Ce-128

MAT 5801

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

58-Ce-128



44

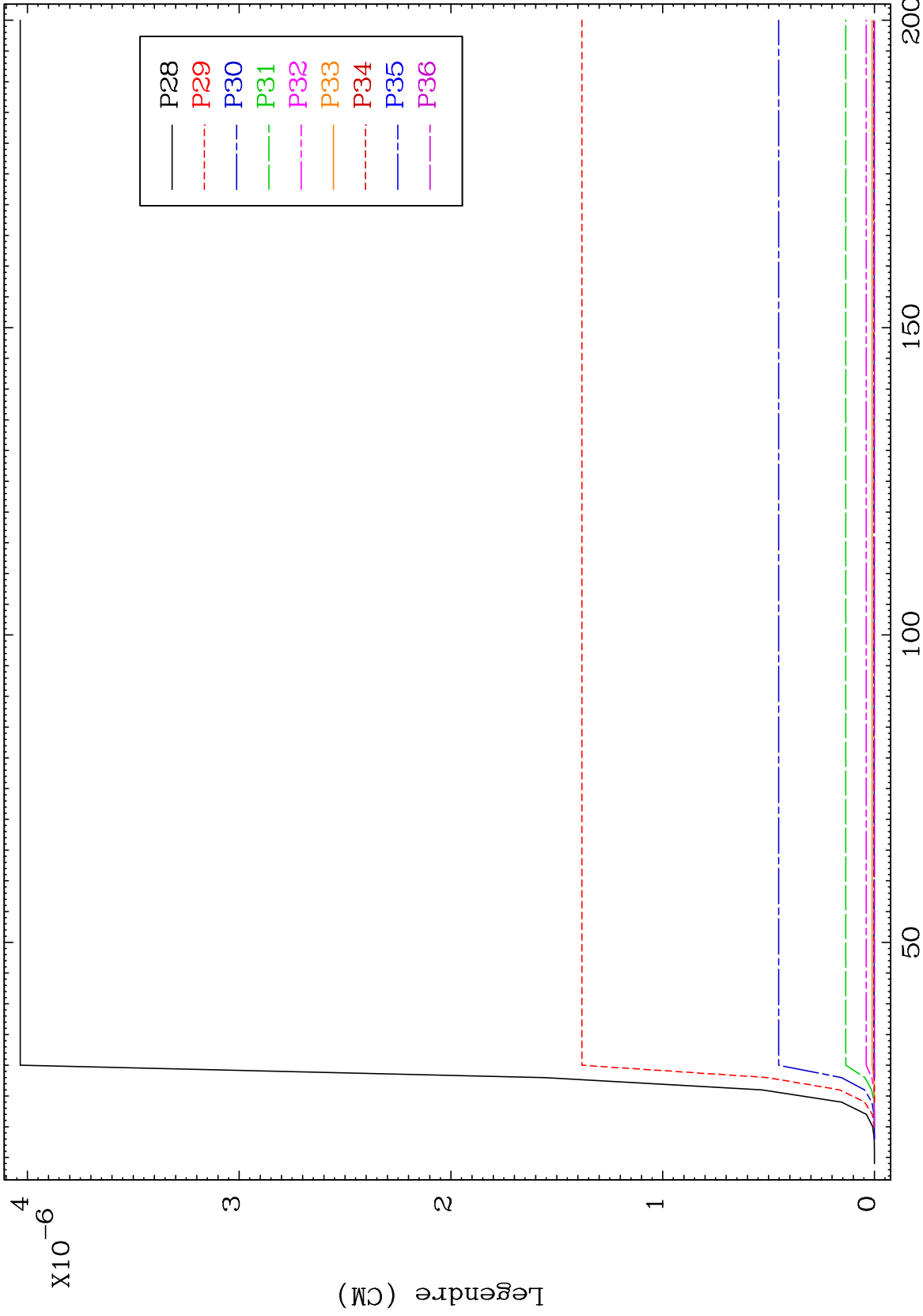
Incident Energy (MeV)

58-Ce-128

MAT 5801

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

58-Ce-128



45

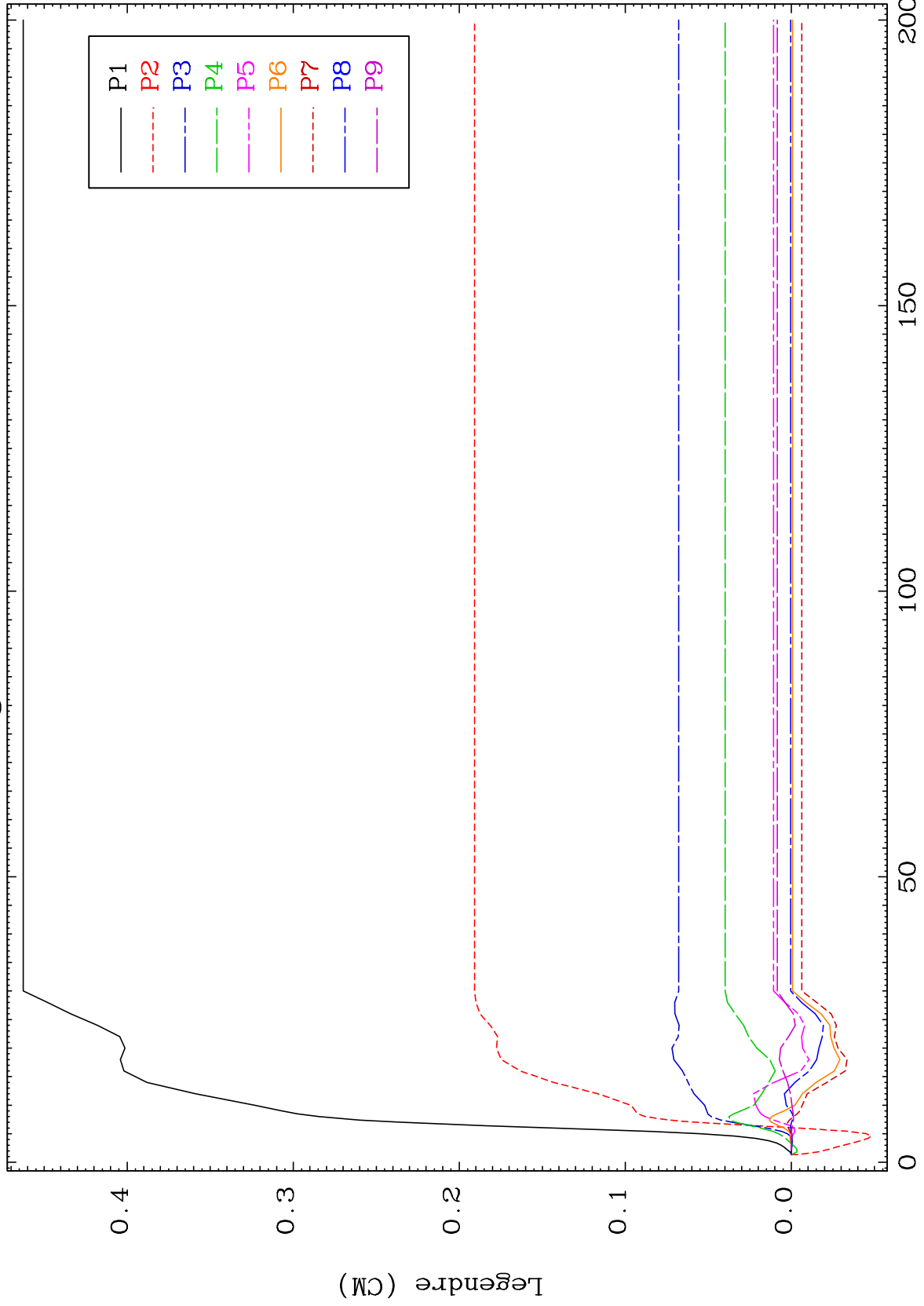
Incident Energy (MeV)

58-Ce-128

MAT 5801

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

58-Ce-128



46

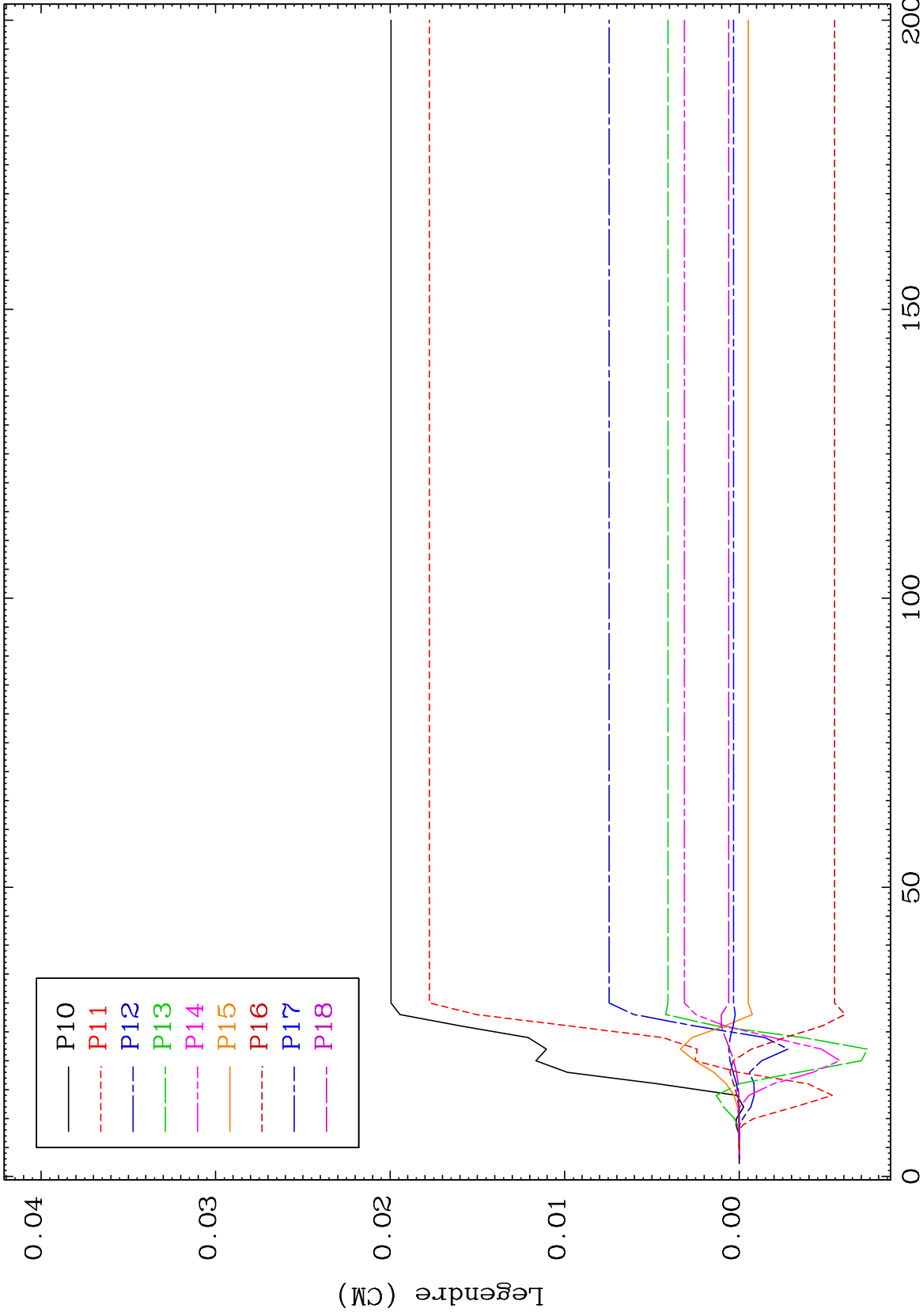
Incident Energy (MeV)

58-Ce-128

MAT 5801

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

58-Ce-128



47

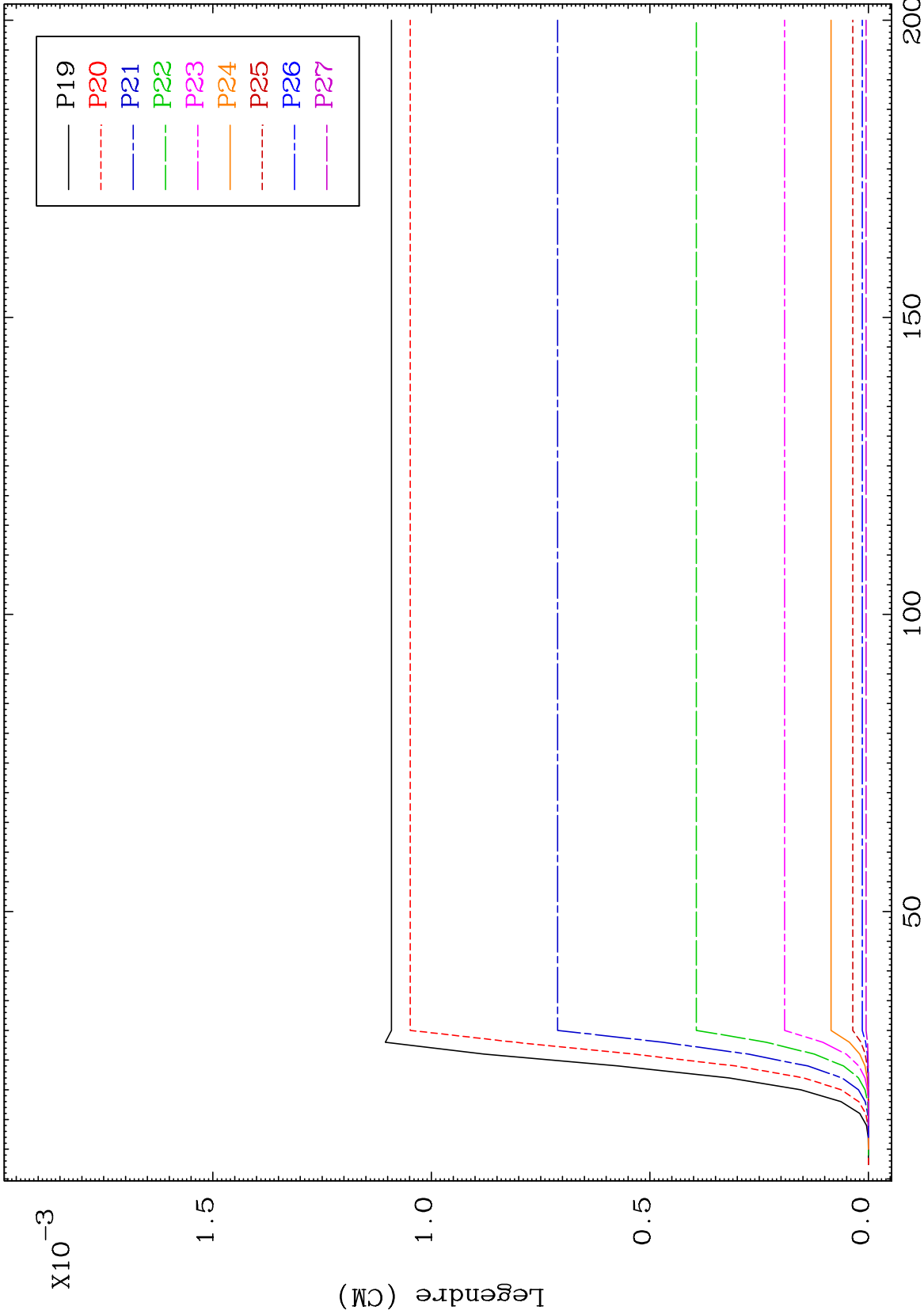
58-Ce-128



MAT 5801

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

58-Ce-128



48

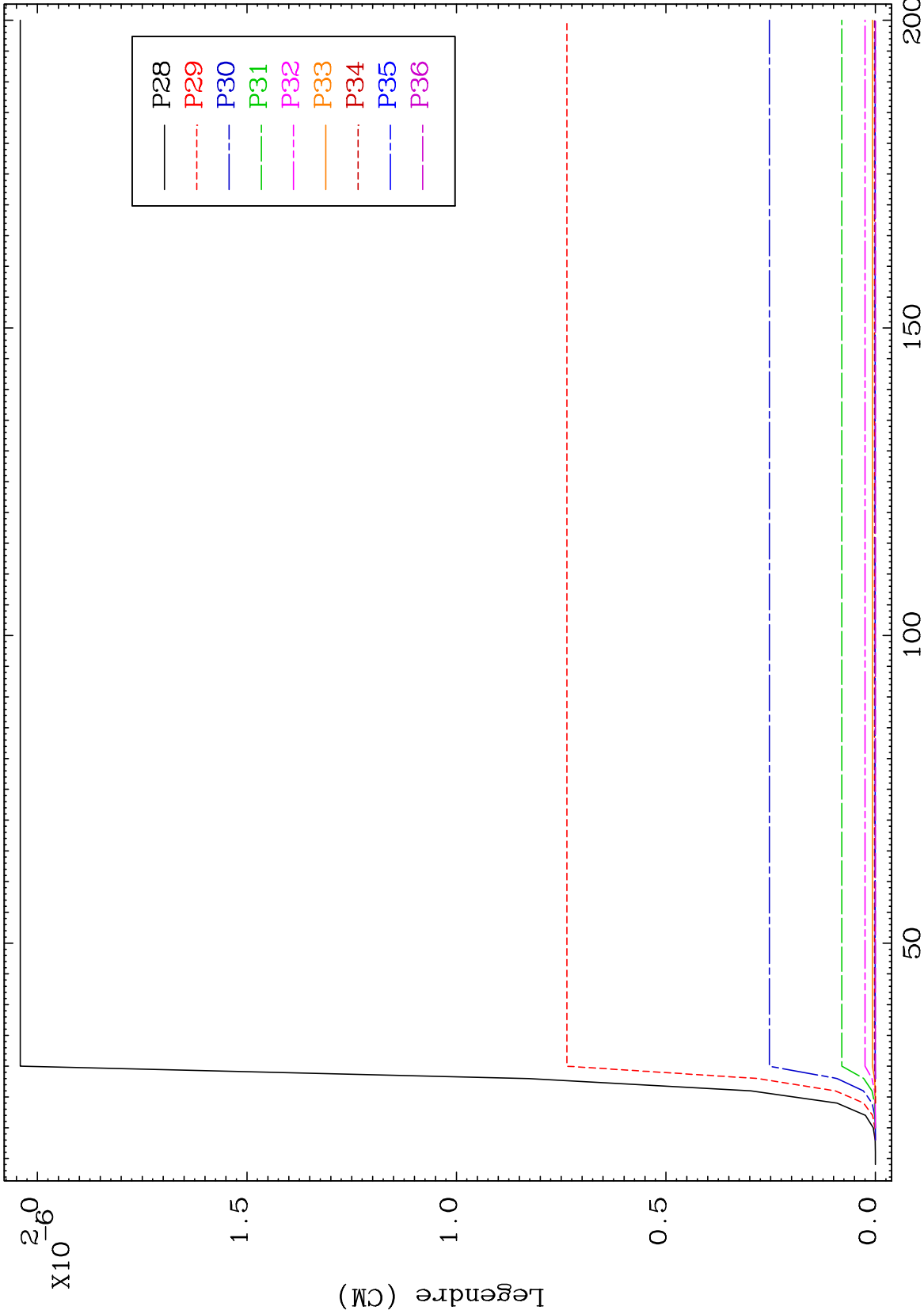
Incident Energy (MeV)

58-Ce-128

MAT 5801

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

58-Ce-128

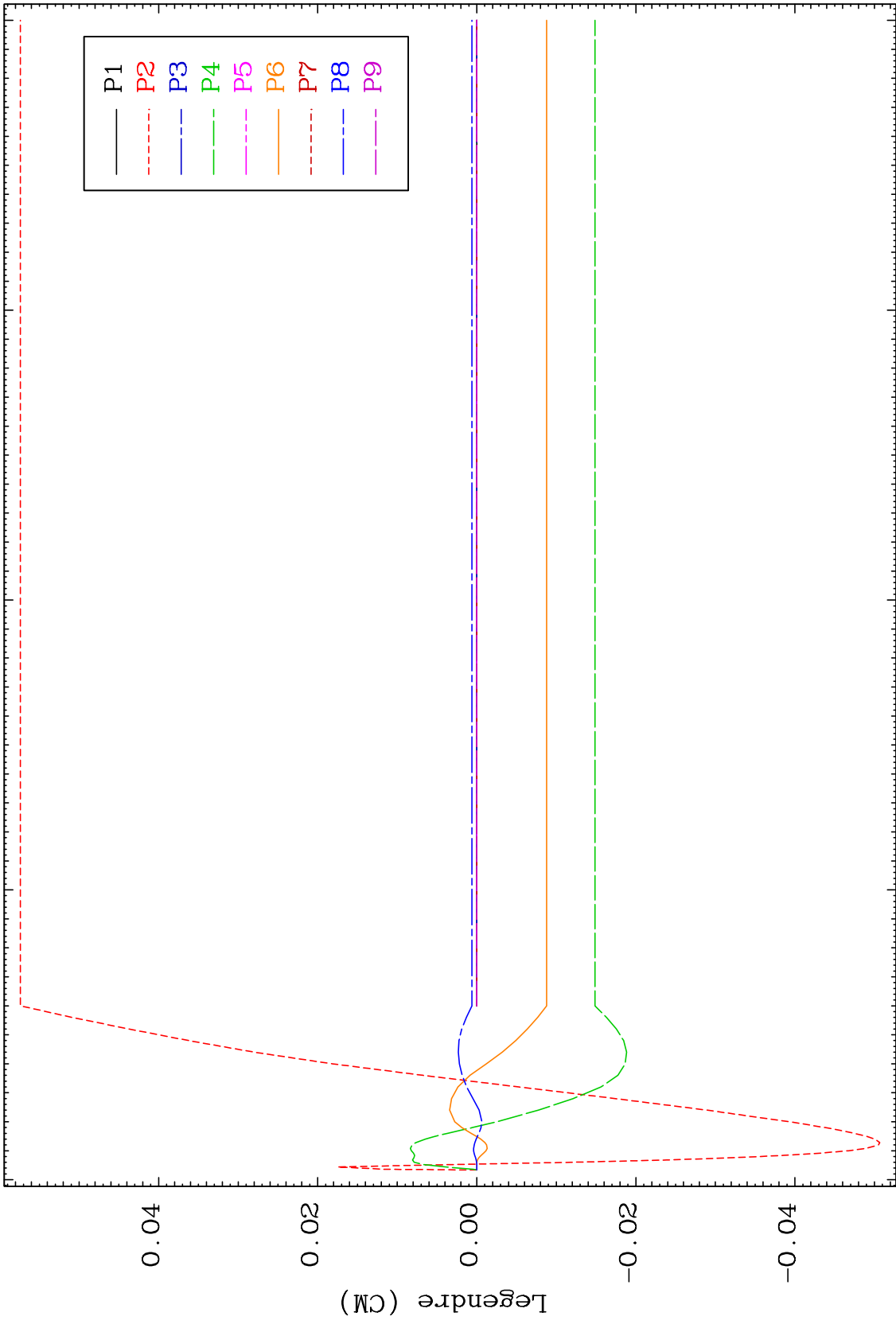


49

Incident Energy (MeV)

58-Ce-128

MAT 5801 MT= 59 (n,n') Level Legendre Coefficients 58-Ce-128

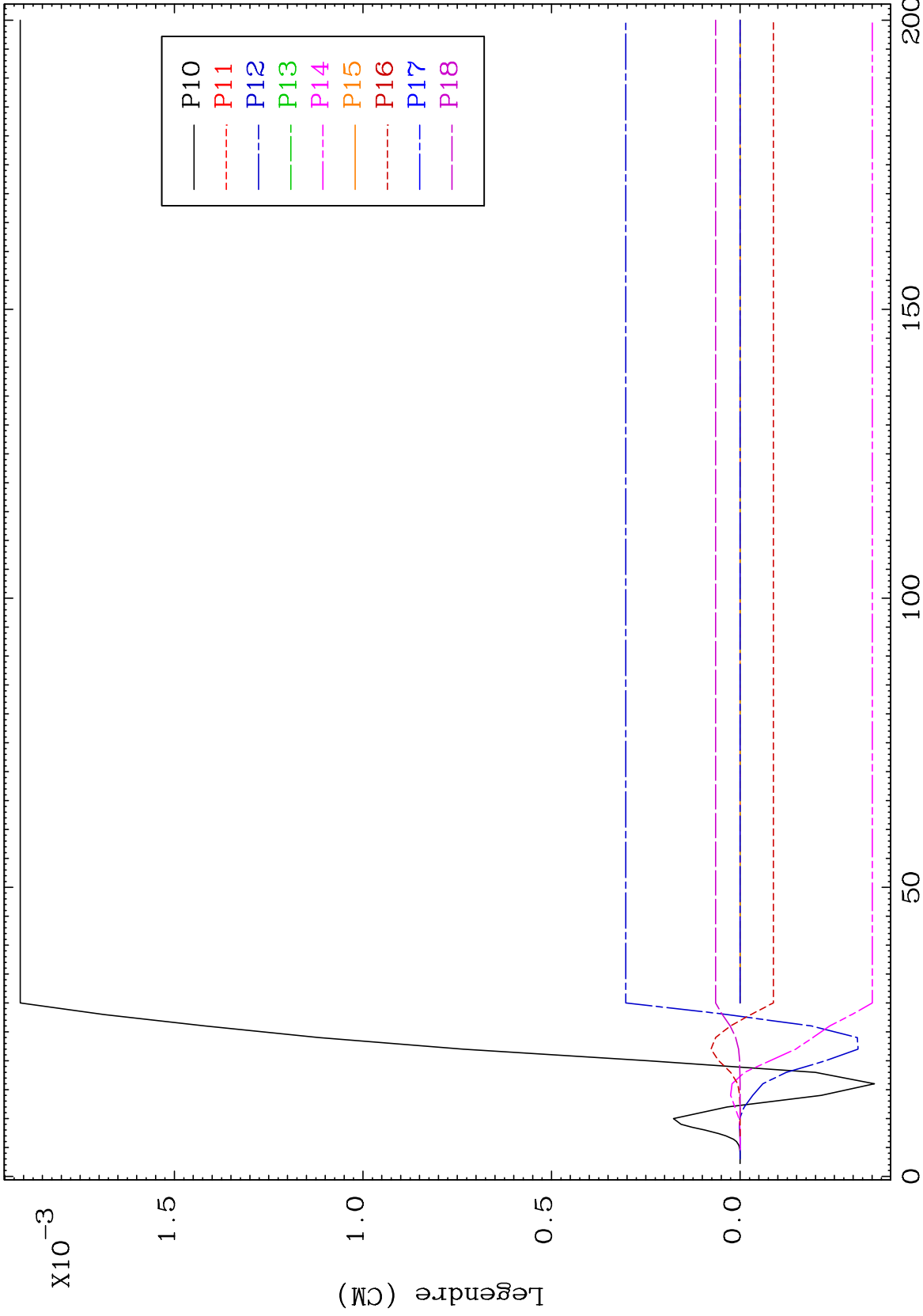


58-Ce-128

MAT 5801

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

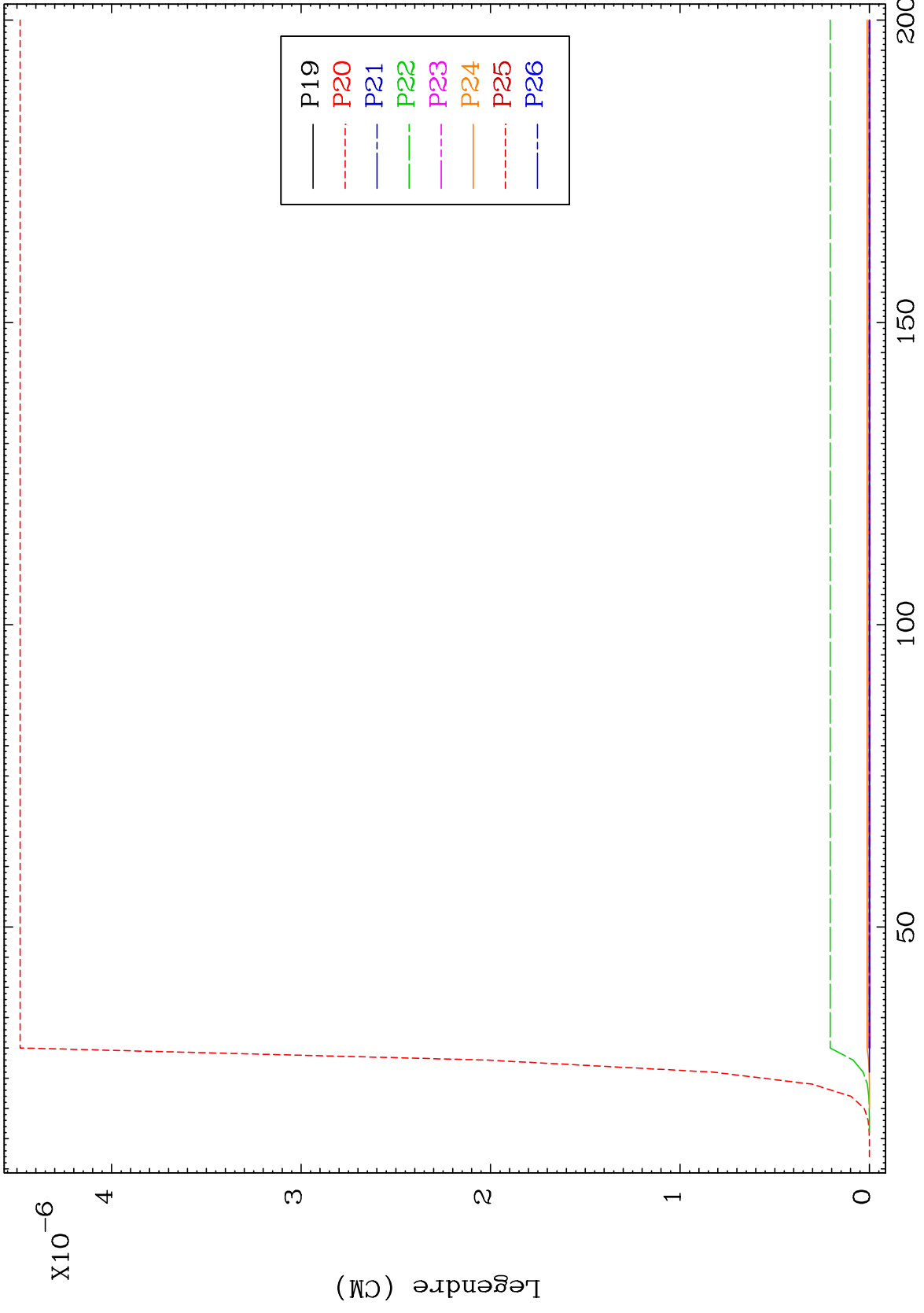
58-Ce-128



51

58-Ce-128

MAT 5801 MT= 59 (n,n') Level Legendre Coefficients 58-Ce-128

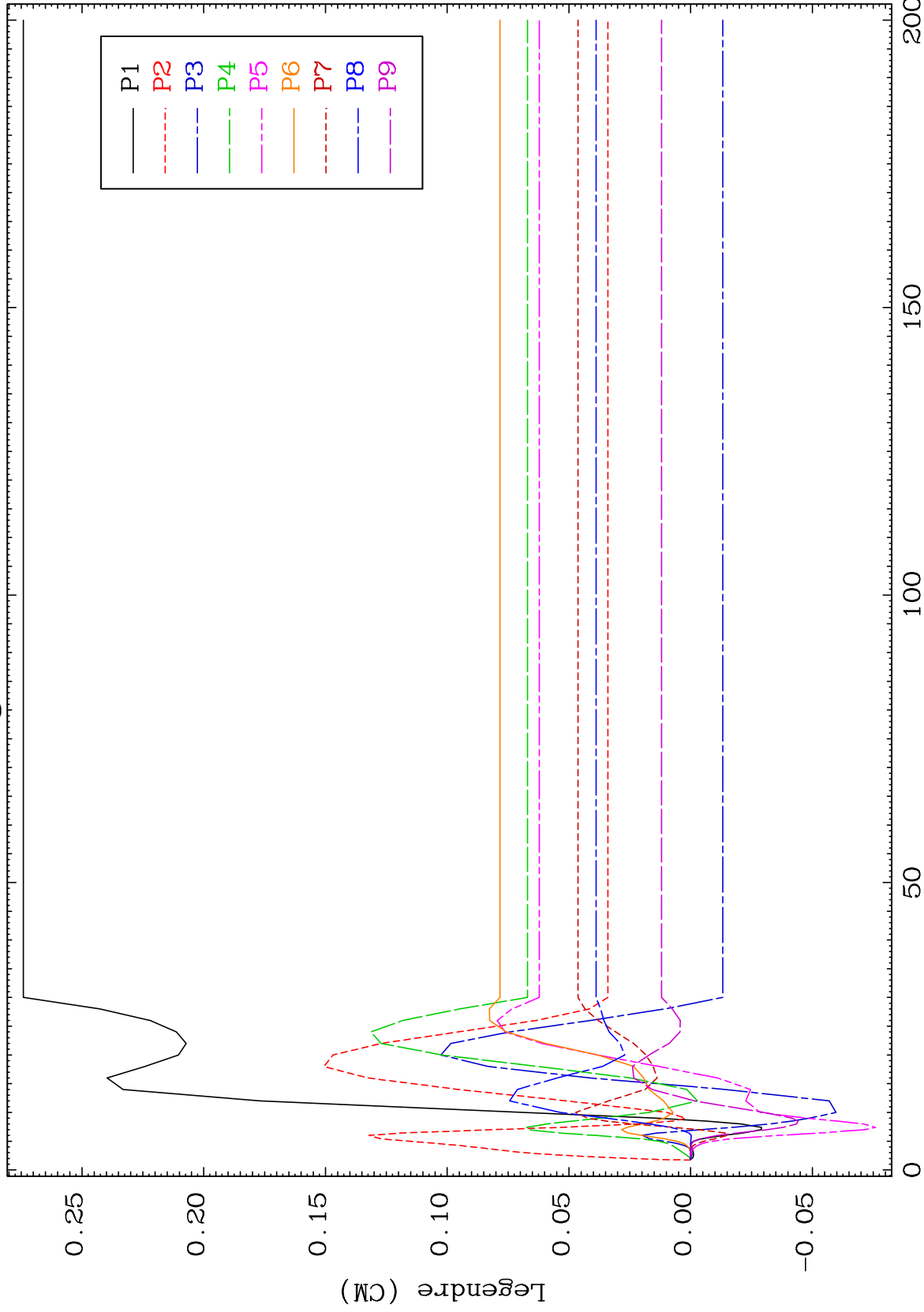


58-Ce-128

MAT 5801

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

58-Ce-128

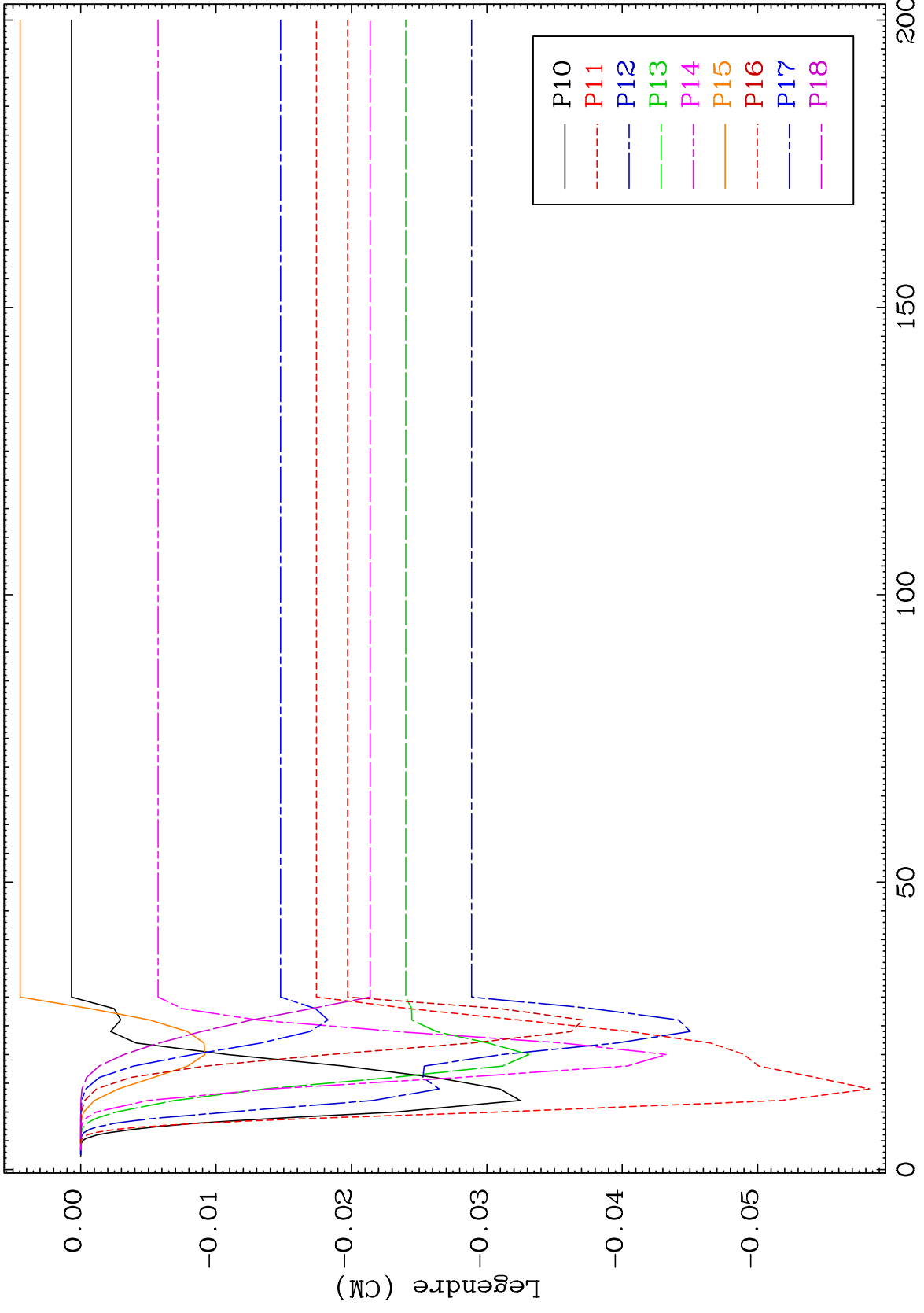


53

Incident Energy (MeV)

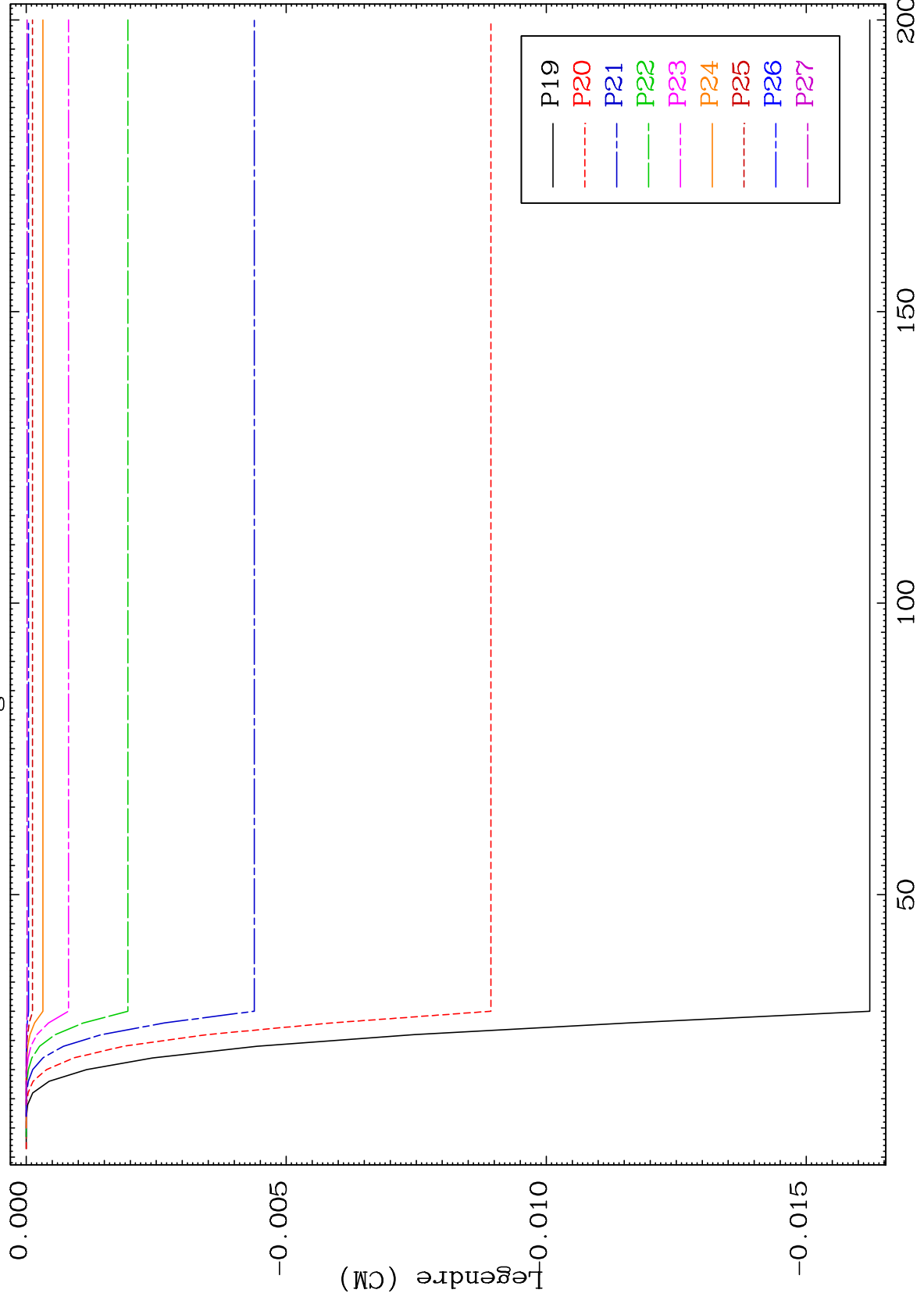
58-Ce-128

MAT 5801 MT= 60 (n,n') Level Legendre Coefficients 58-Ce-128



54 58-Ce-128

MAT 5801 MT= 60 (n,n') Level Legendre Coefficients 58-Ce-128



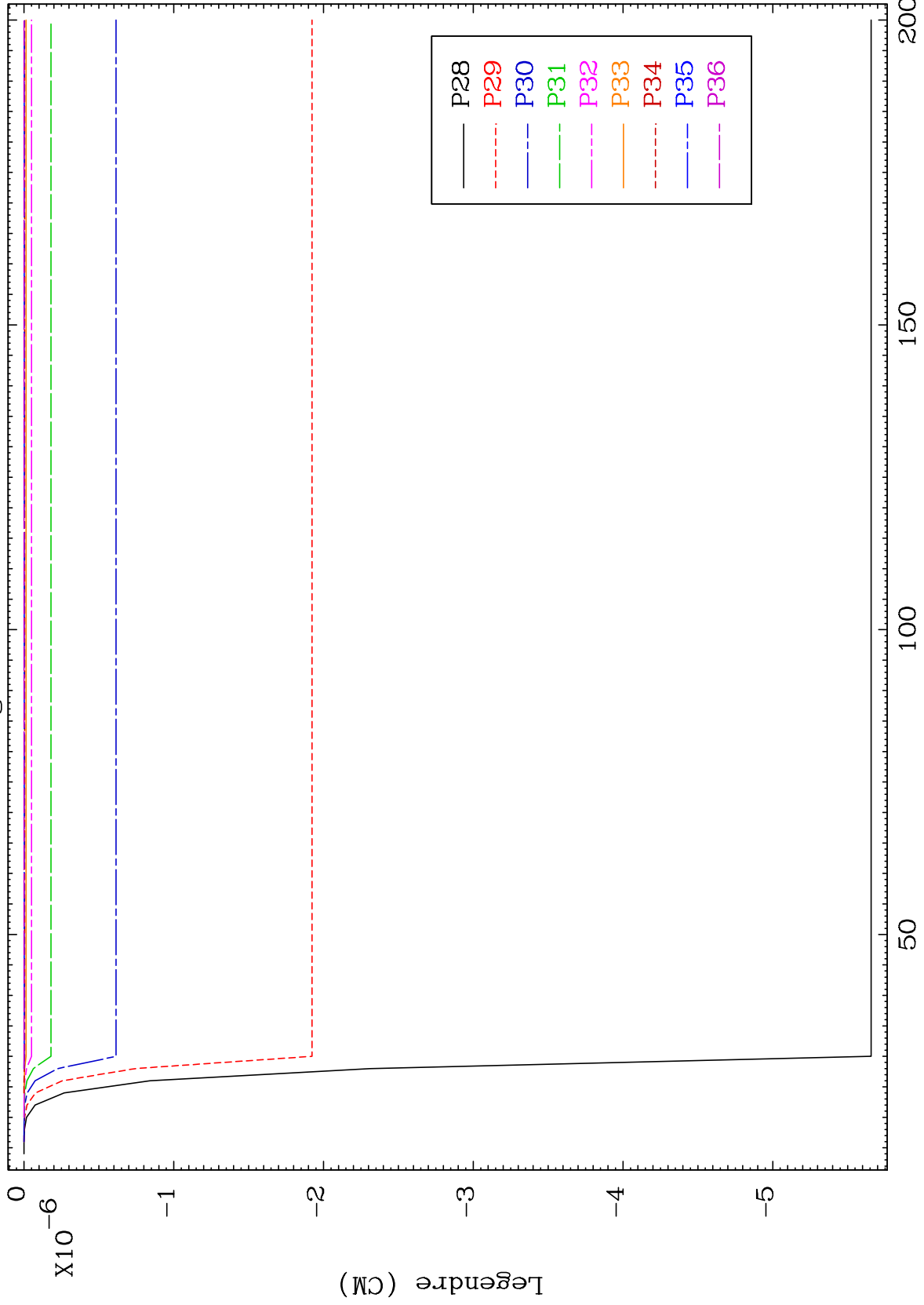
55 Incident Energy (MeV) 58-Ce-128



MAT 5801

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

58-Ce-128



58-Ce-128

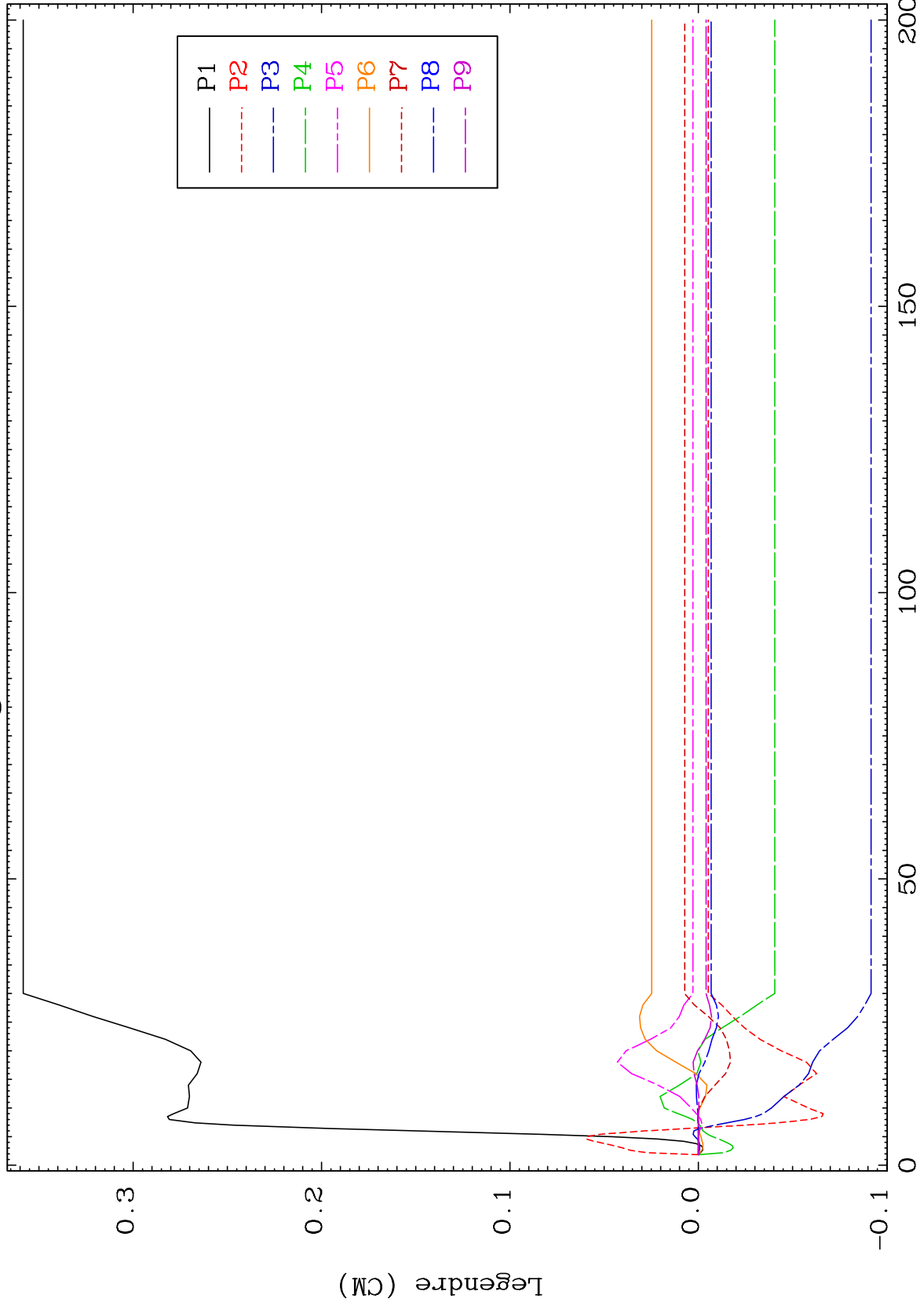
Incident Energy (MeV)

56

MAT 5801

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

58-Ce-128



57

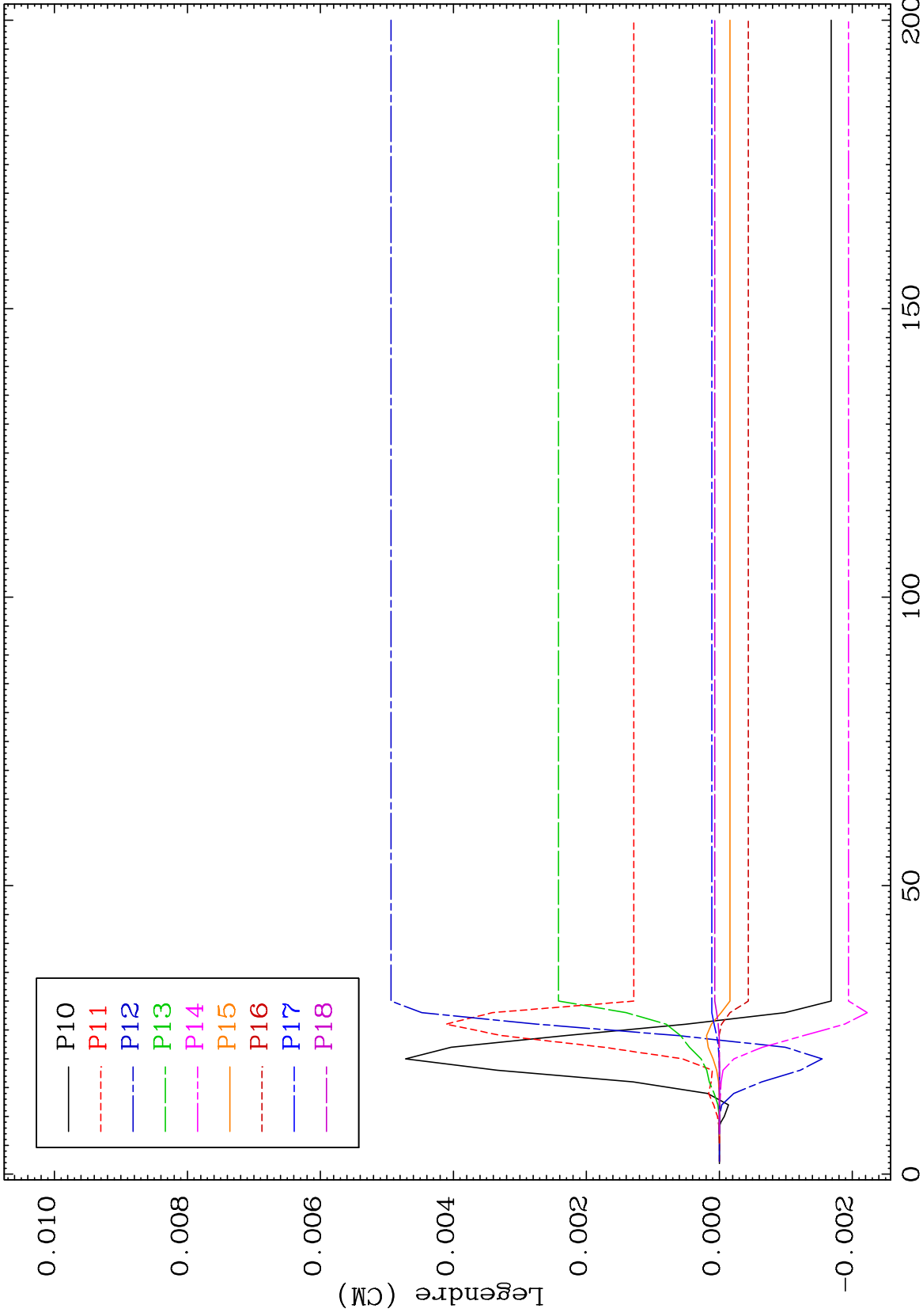
Incident Energy (MeV)

58-Ce-128

MAT 5801

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

58-Ce-128



58

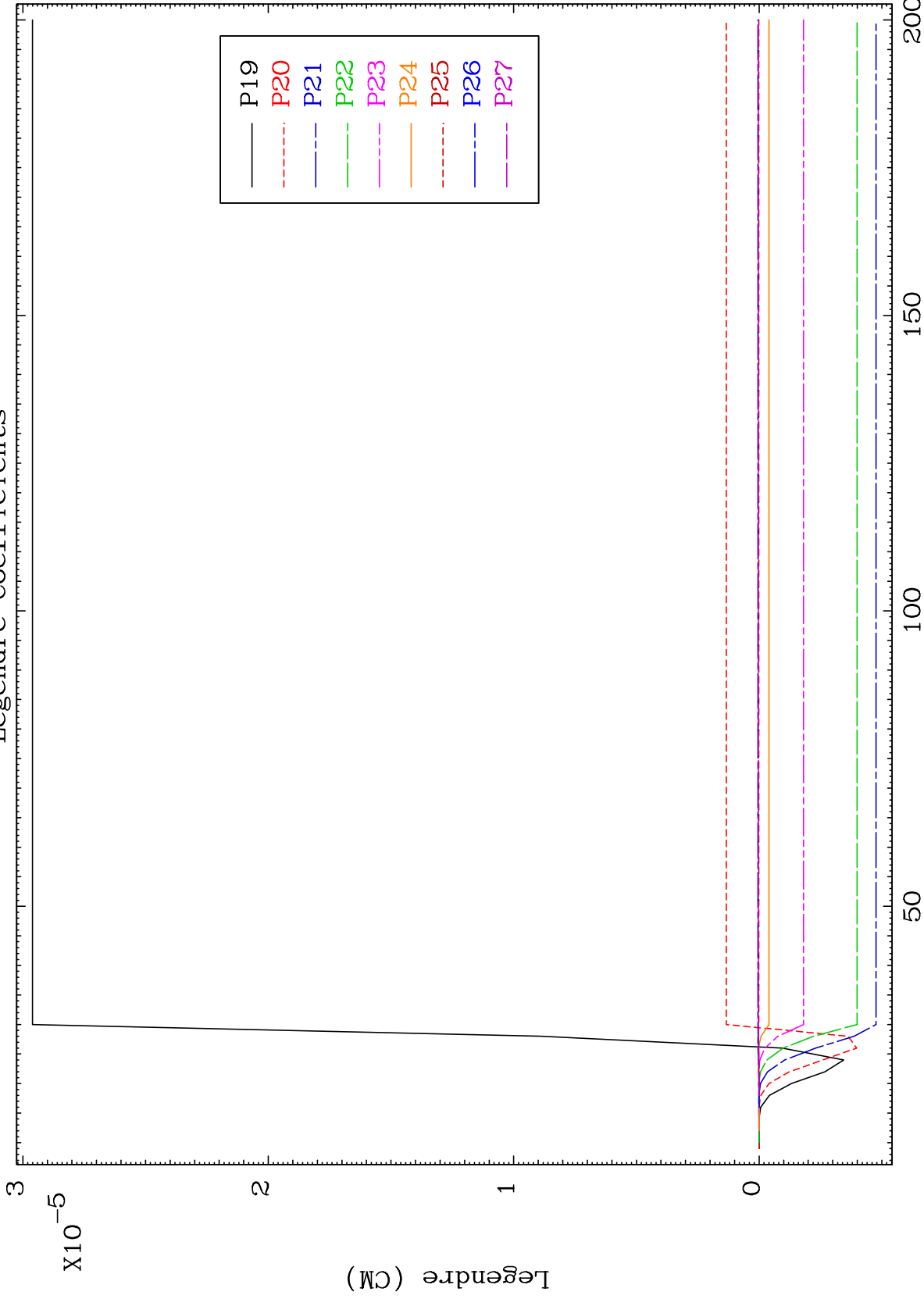
Incident Energy (MeV)

58-Ce-128

MAT 5801

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

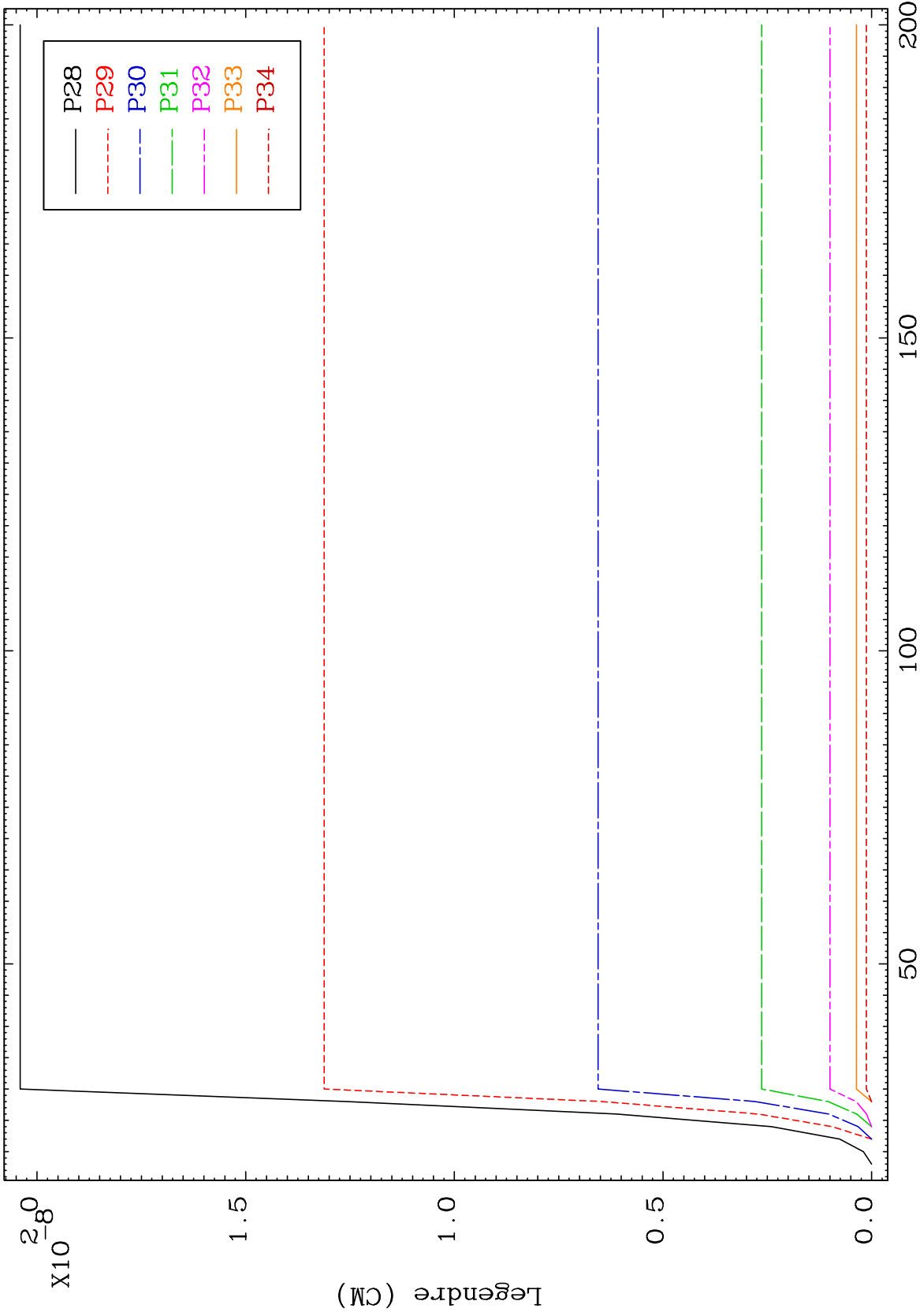
58-Ce-128



MAT 5801

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

58-Ce-128



60

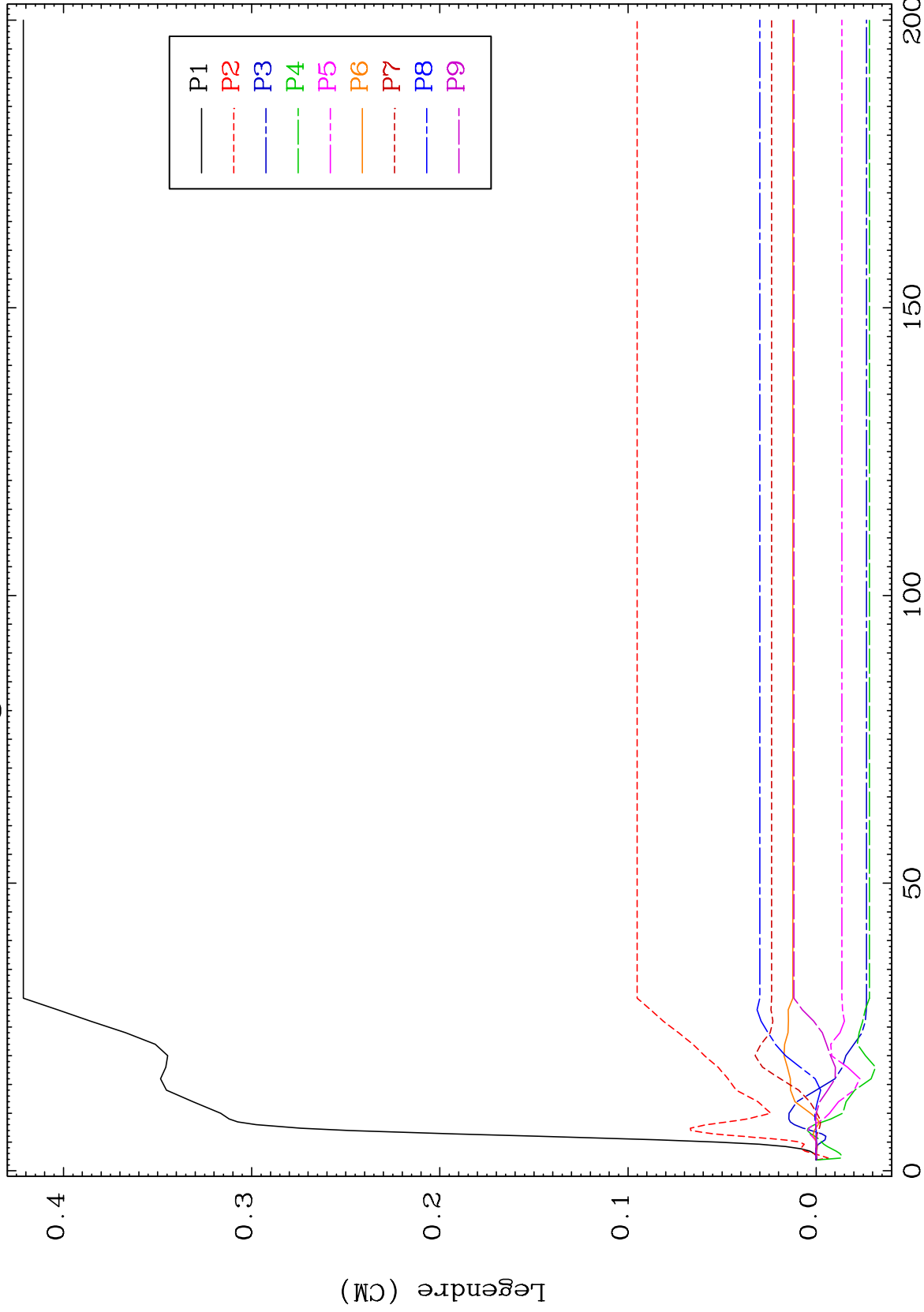
Incident Energy (MeV)

58-Ce-128

MAT 5801

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

58-Ce-128



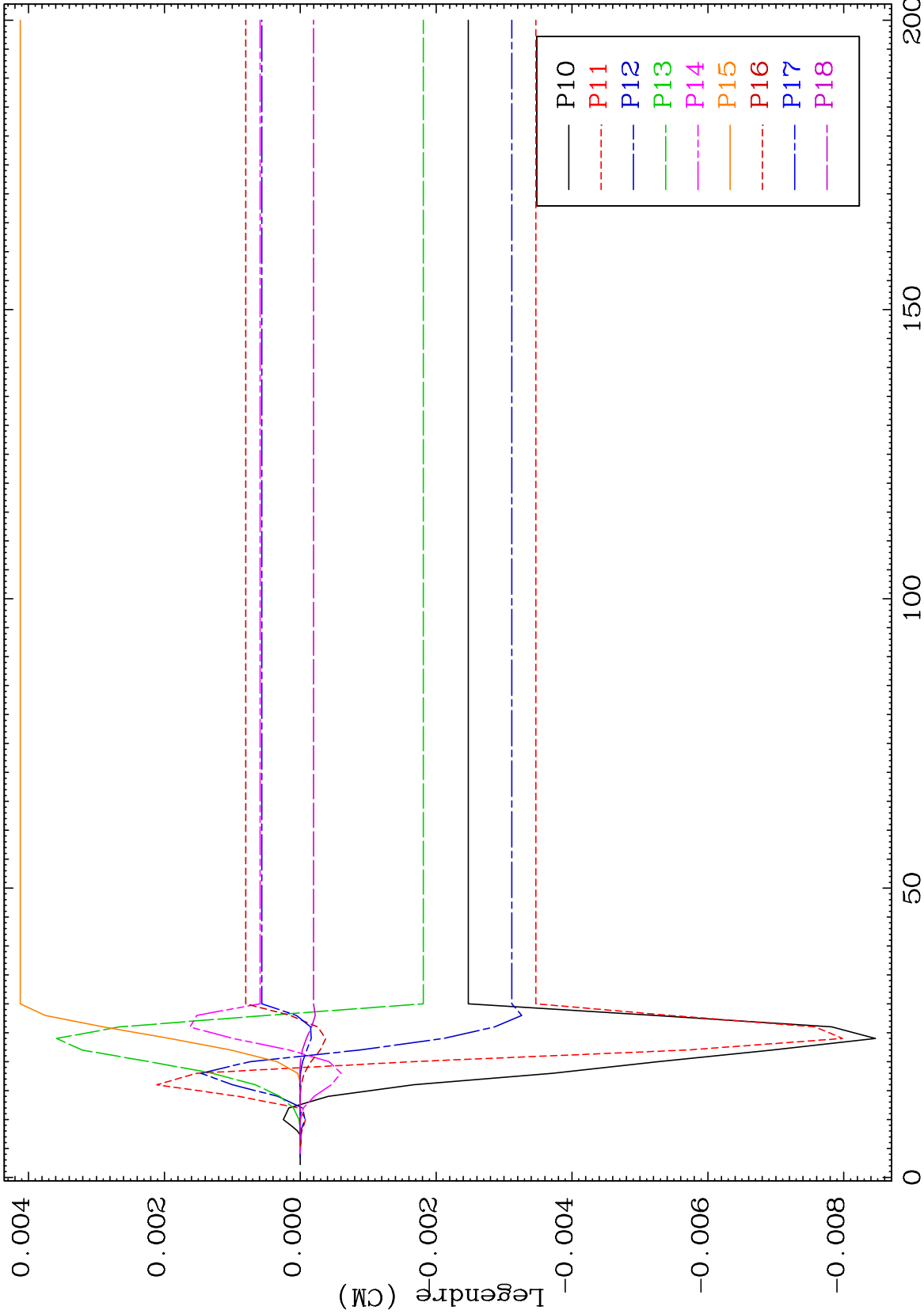
61

Incident Energy (MeV)

58-Ce-128

MAT 5801 MT= 62 (n,n') Level Legendre Coefficients

58-Ce-128



58-Ce-128

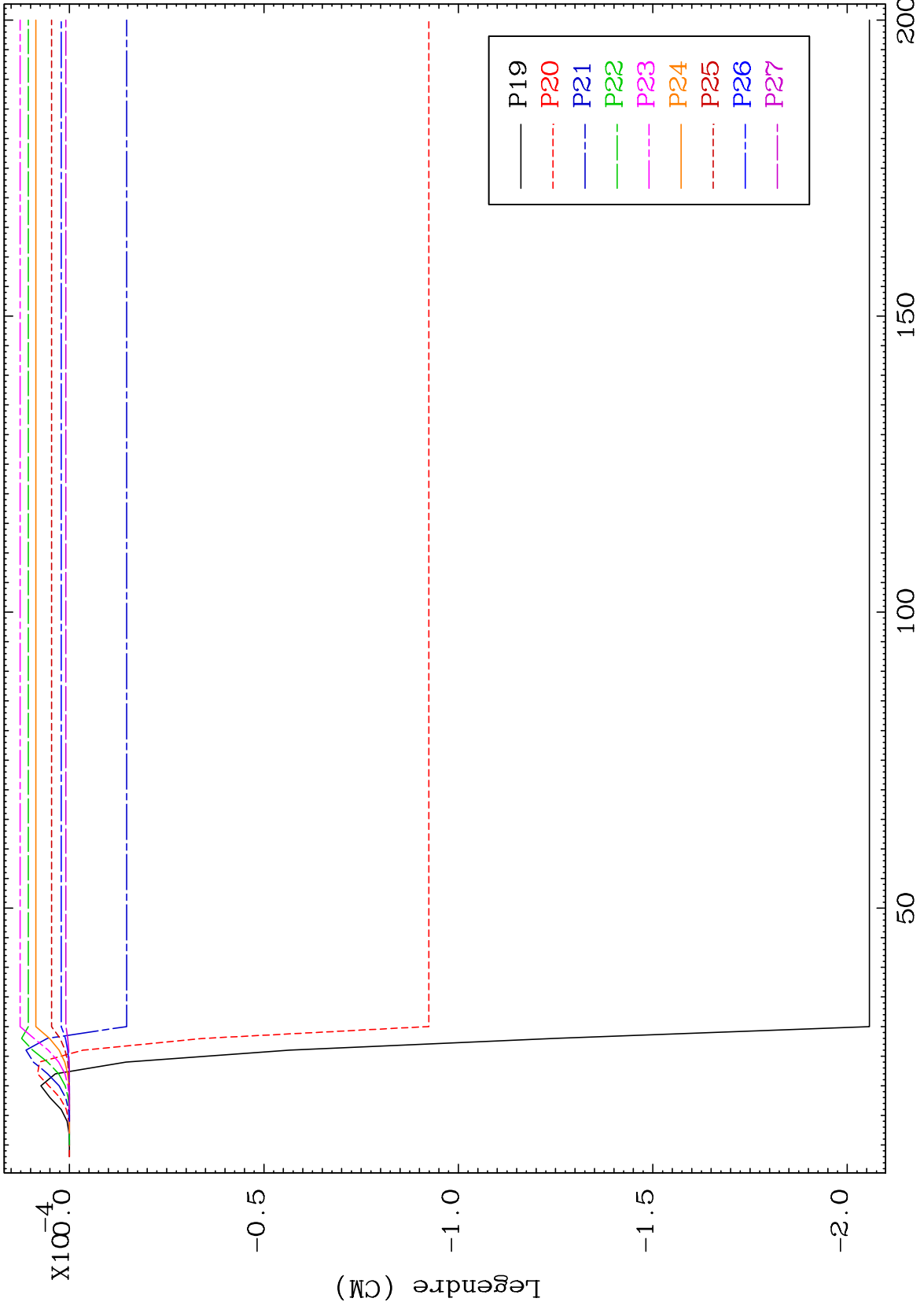
Incident Energy (MeV)

62

MAT 5801

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

58-Ce-128



58-Ce-128

Incident Energy (MeV)

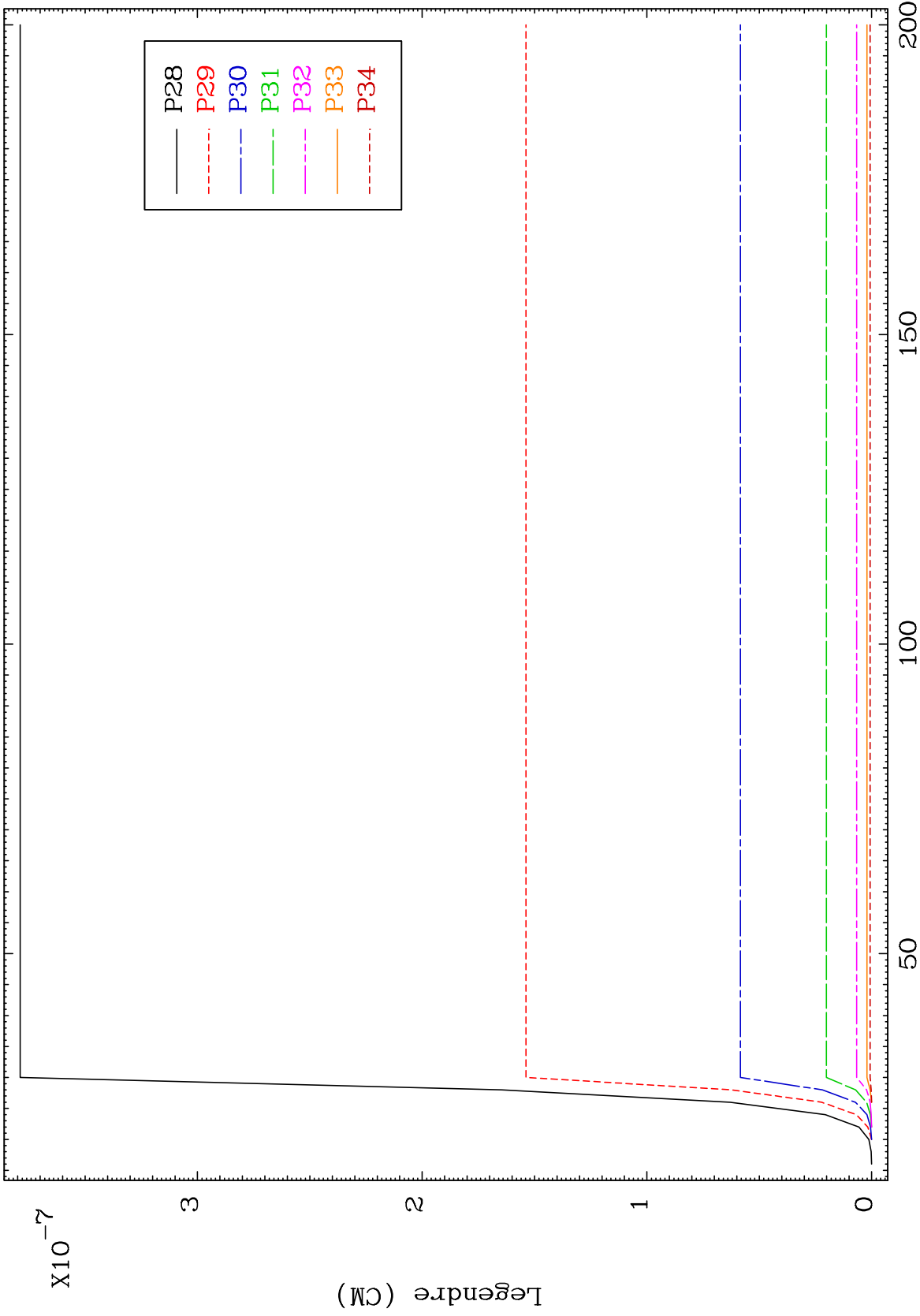
63



MAT 5801

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

58-Ce-128



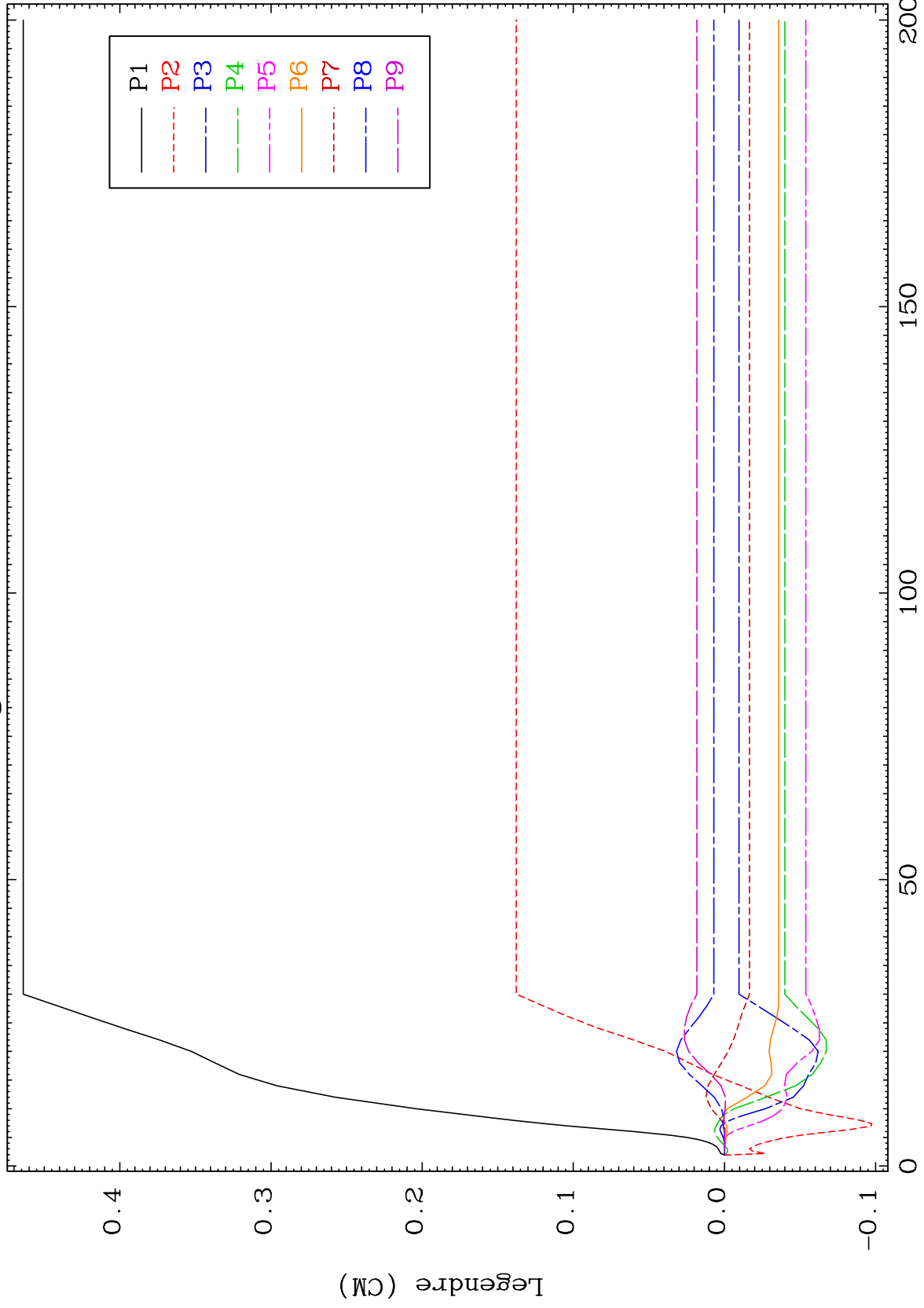
64

58-Ce-128

MAT 5801

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

58-Ce-128



65

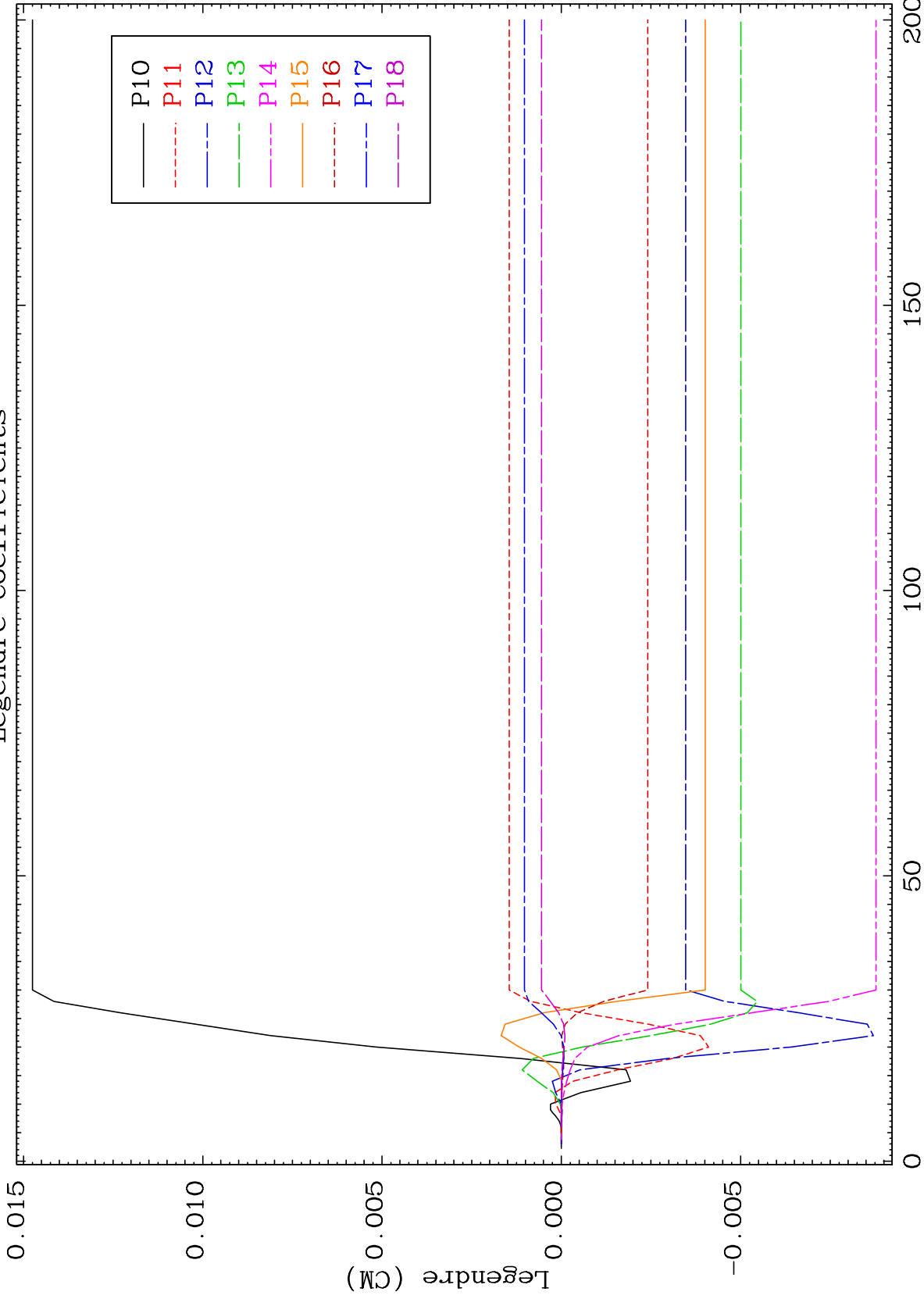
Incident Energy (MeV)

58-Ce-128

MAT 5801

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

58-Ce-128



66

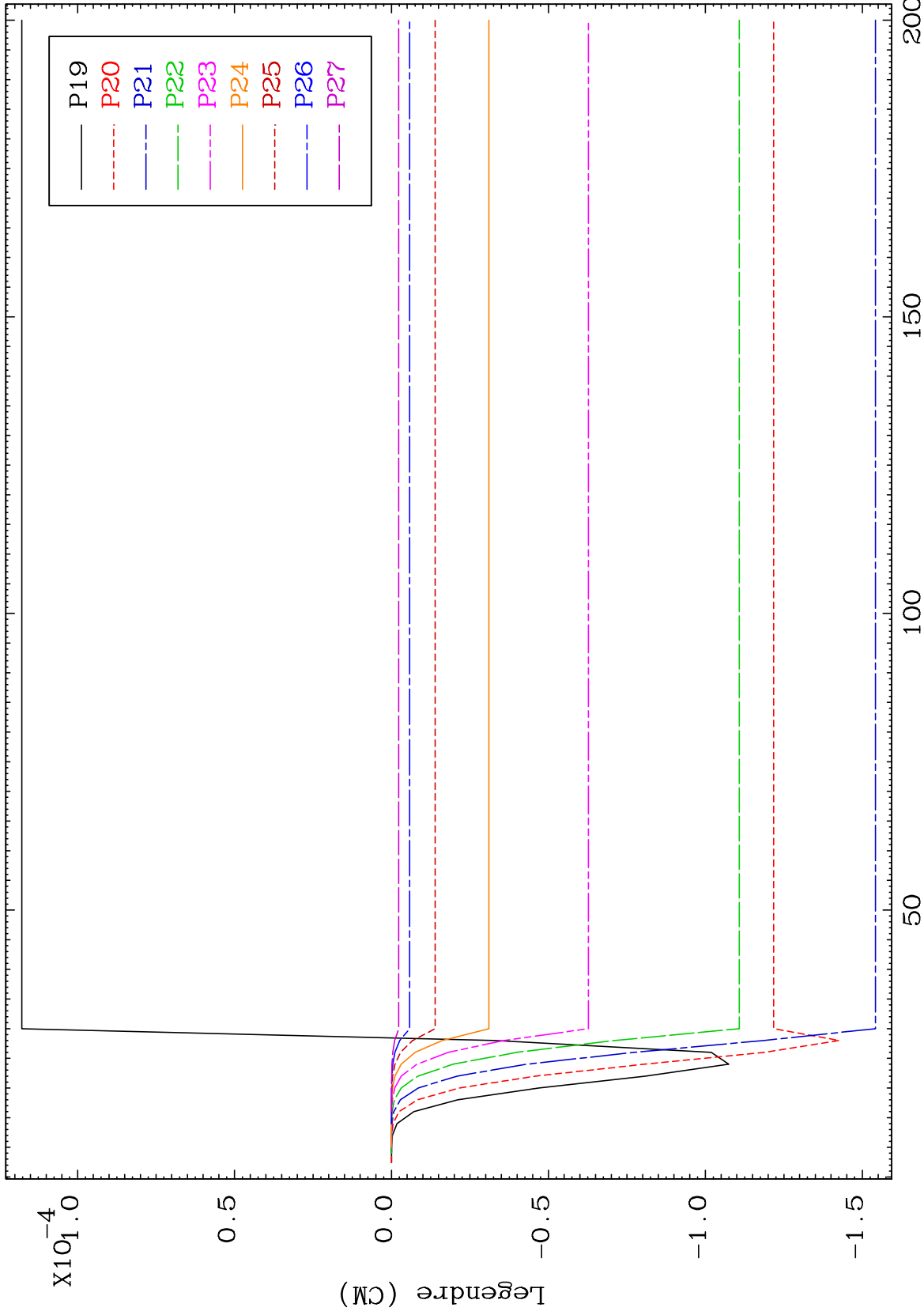
Incident Energy (MeV)

58-Ce-128

MAT 5801

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

58-Ce-128



67

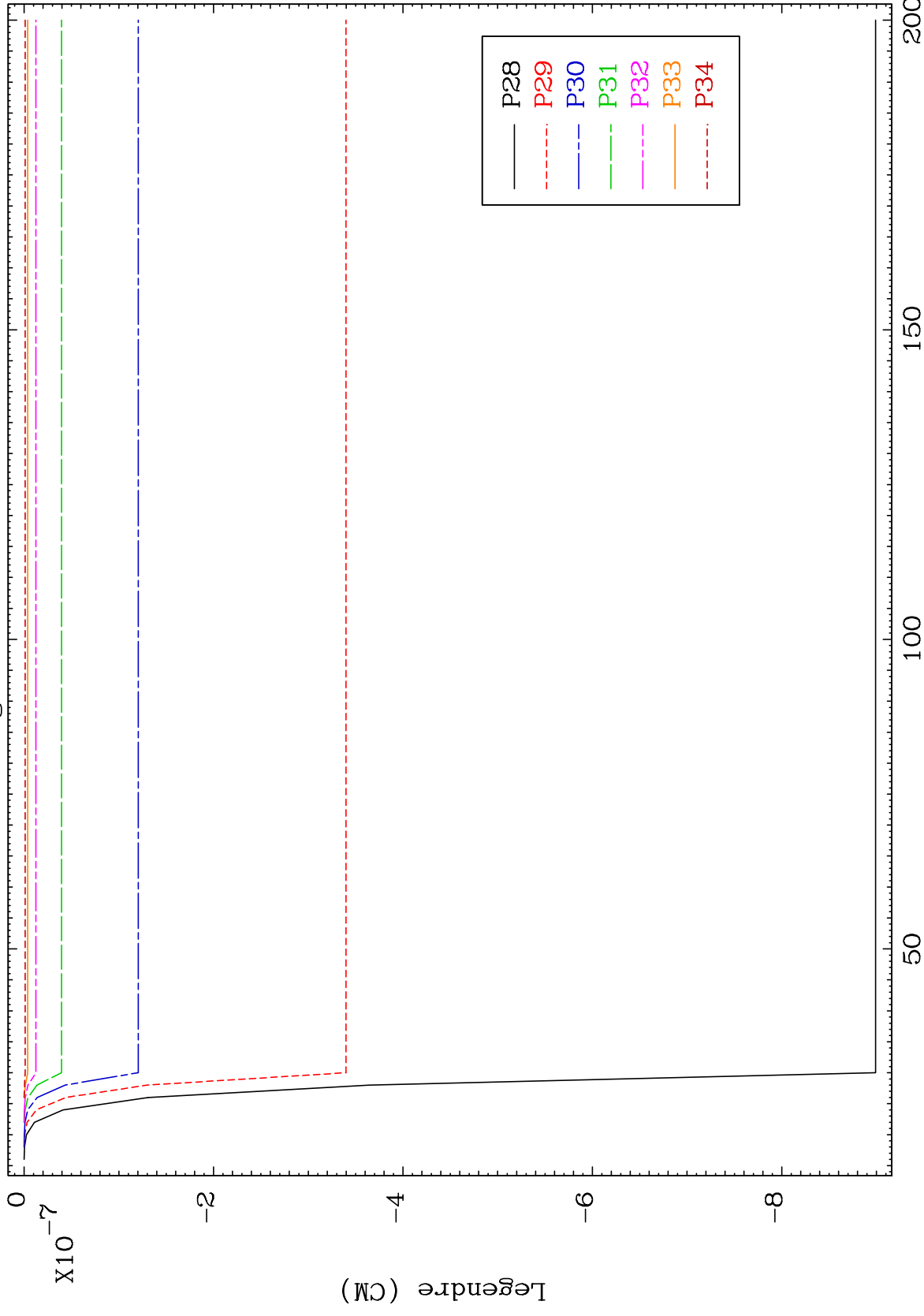
Incident Energy (MeV)

58-Ce-128

MAT 5801

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

58-Ce-128



58-Ce-128

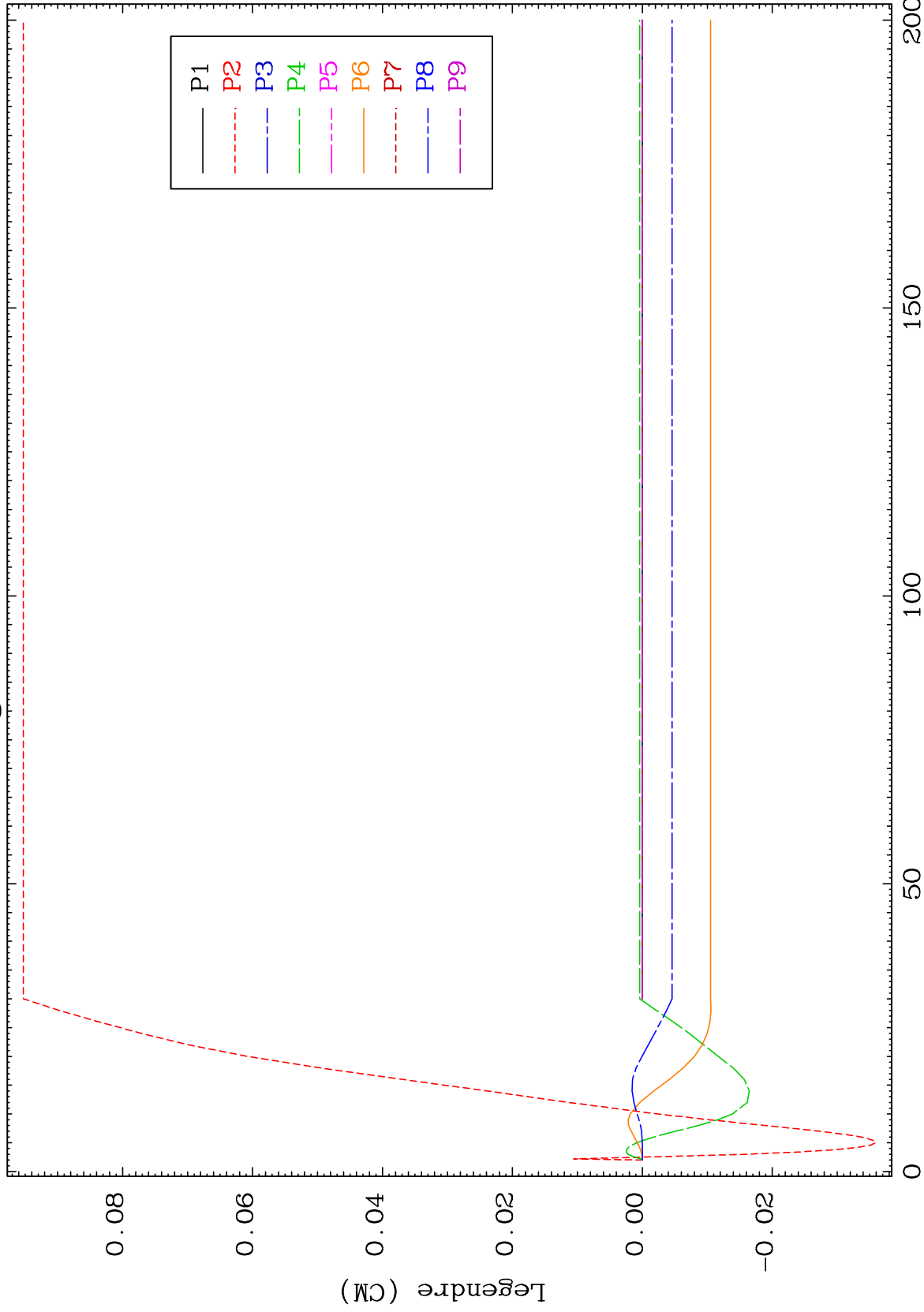
Incident Energy (MeV)

68

MAT 5801

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

58-Ce-128

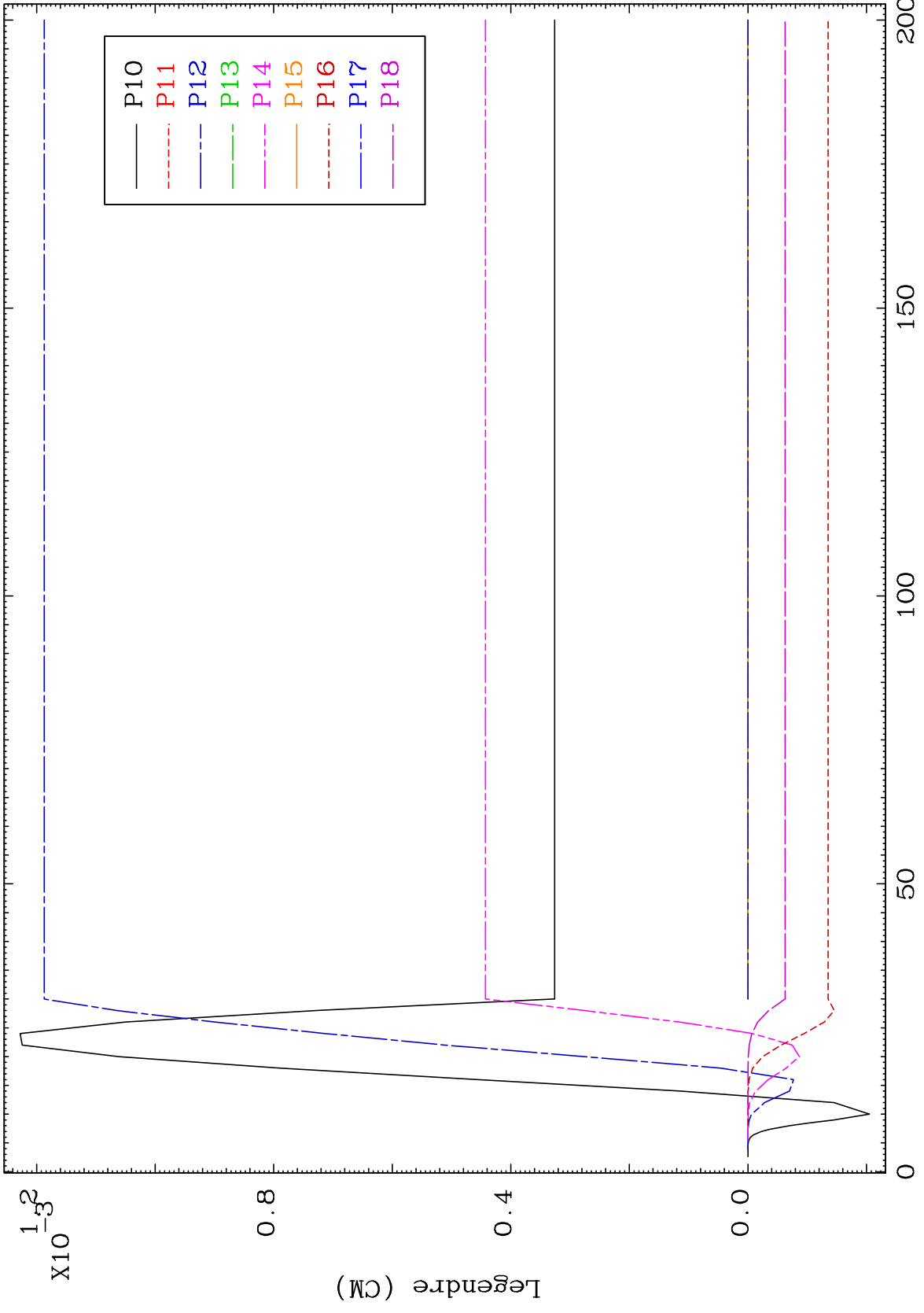


69

Incident Energy (MeV)

58-Ce-128

MAT 5801 MT= 64 (n,n') Level Legendre Coefficients 58-Ce-128

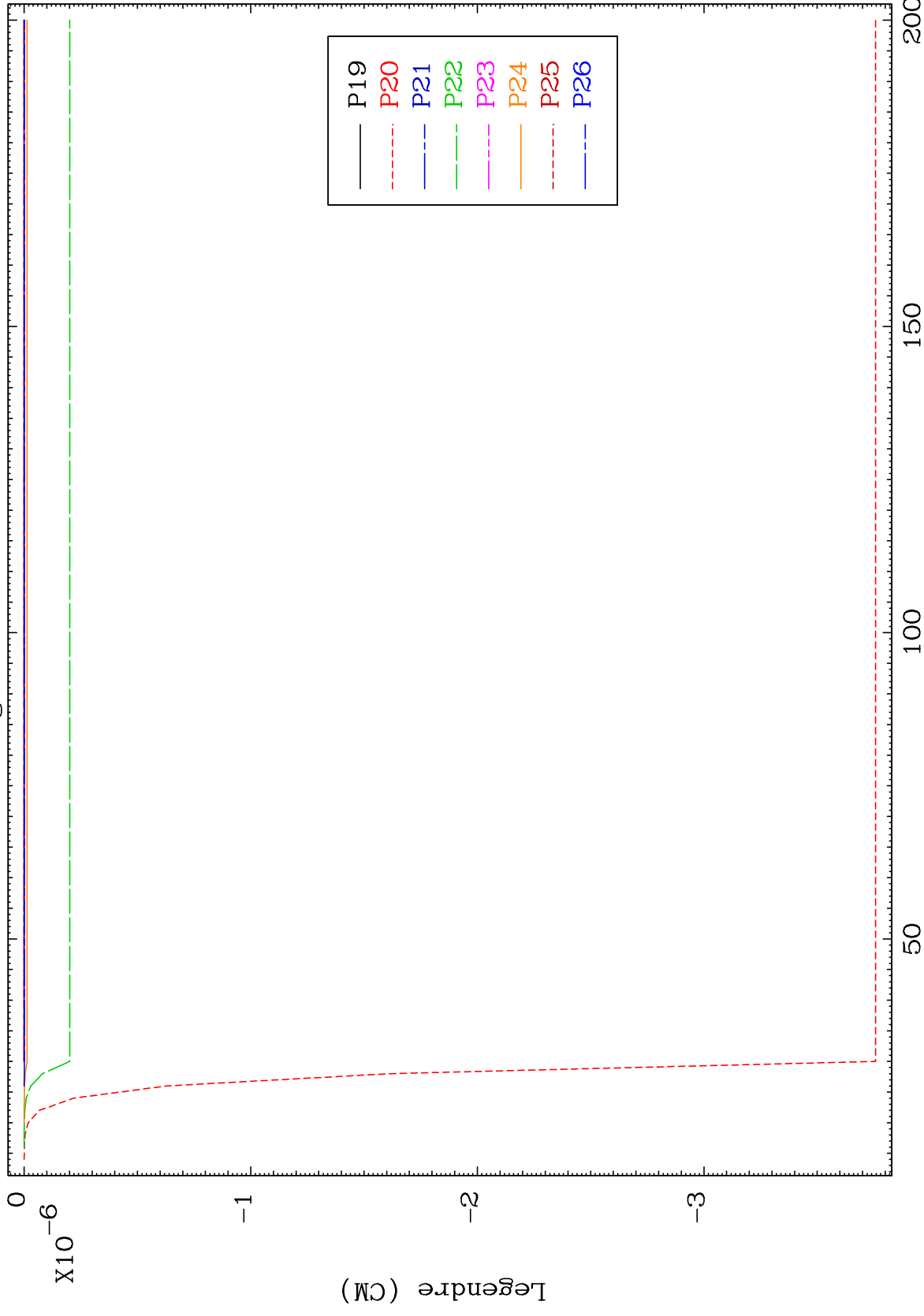


70 50 100 150 200 58-Ce-128

MAT 5801

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

58-Ce-128



58-Ce-128

Incident Energy (MeV)

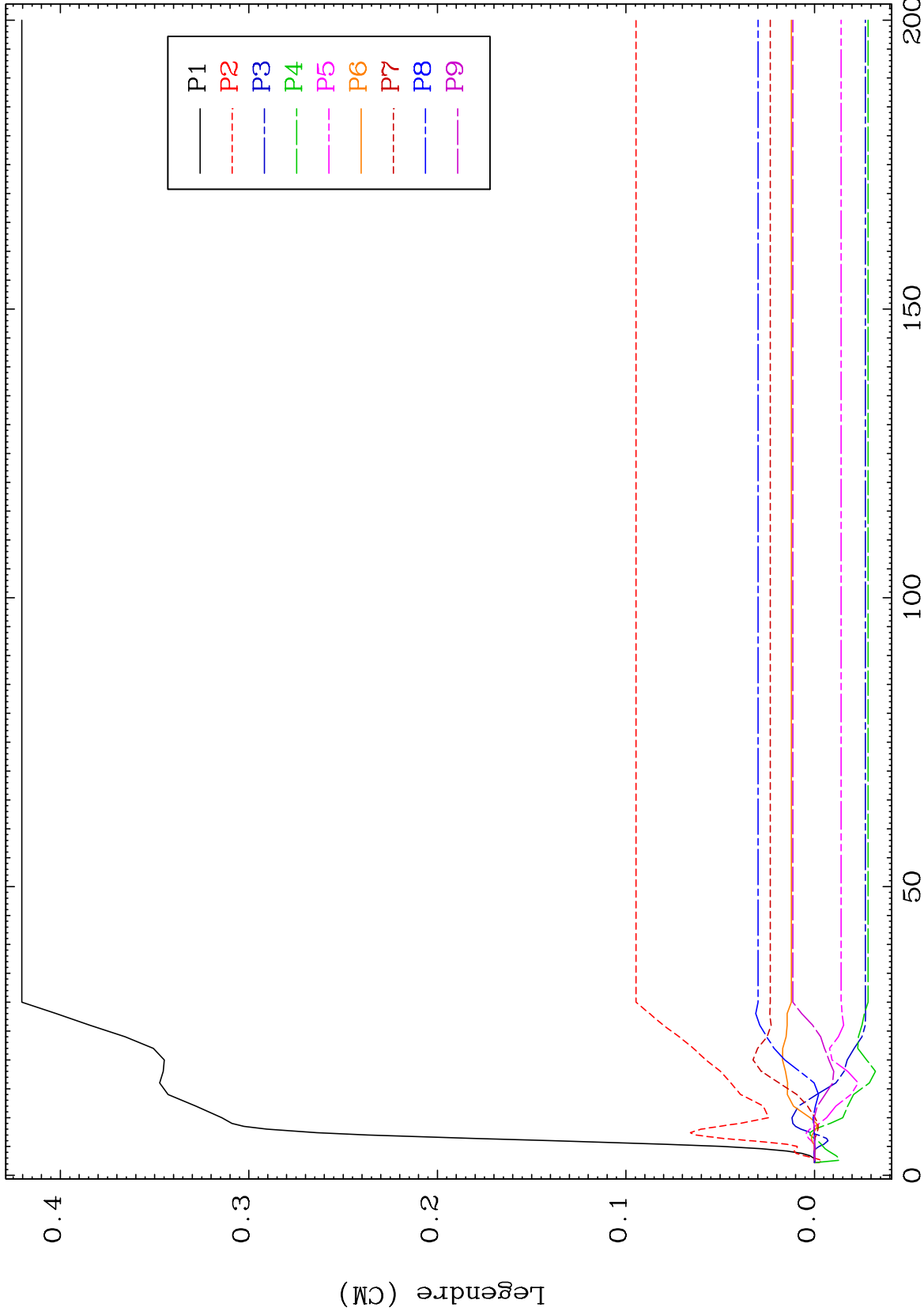
71



MAT 5801

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

58-Ce-128

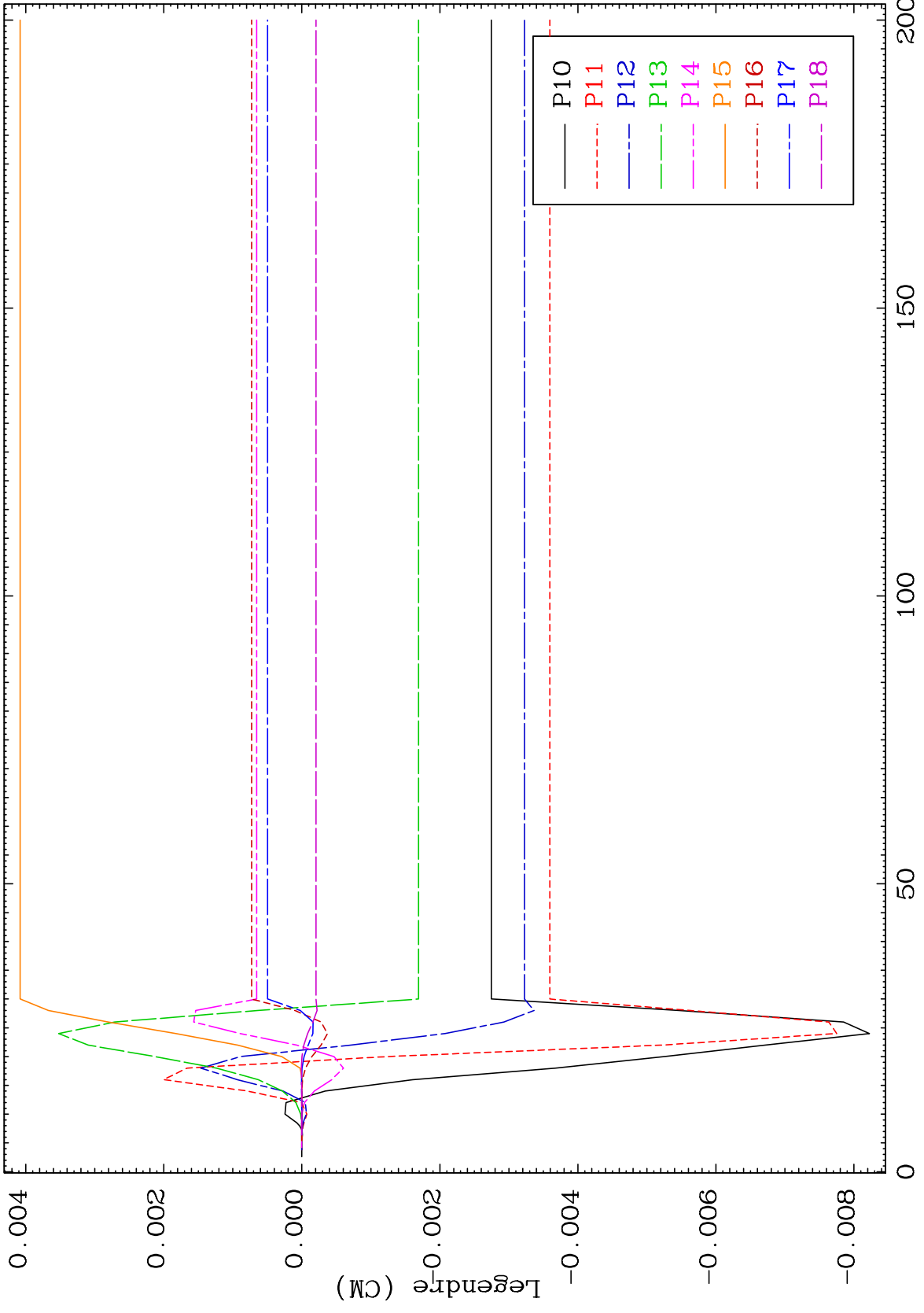


72

Incident Energy (MeV)

58-Ce-128

MAT 5801 MT= 65 (n,n') Level Legendre Coefficients 58-Ce-128

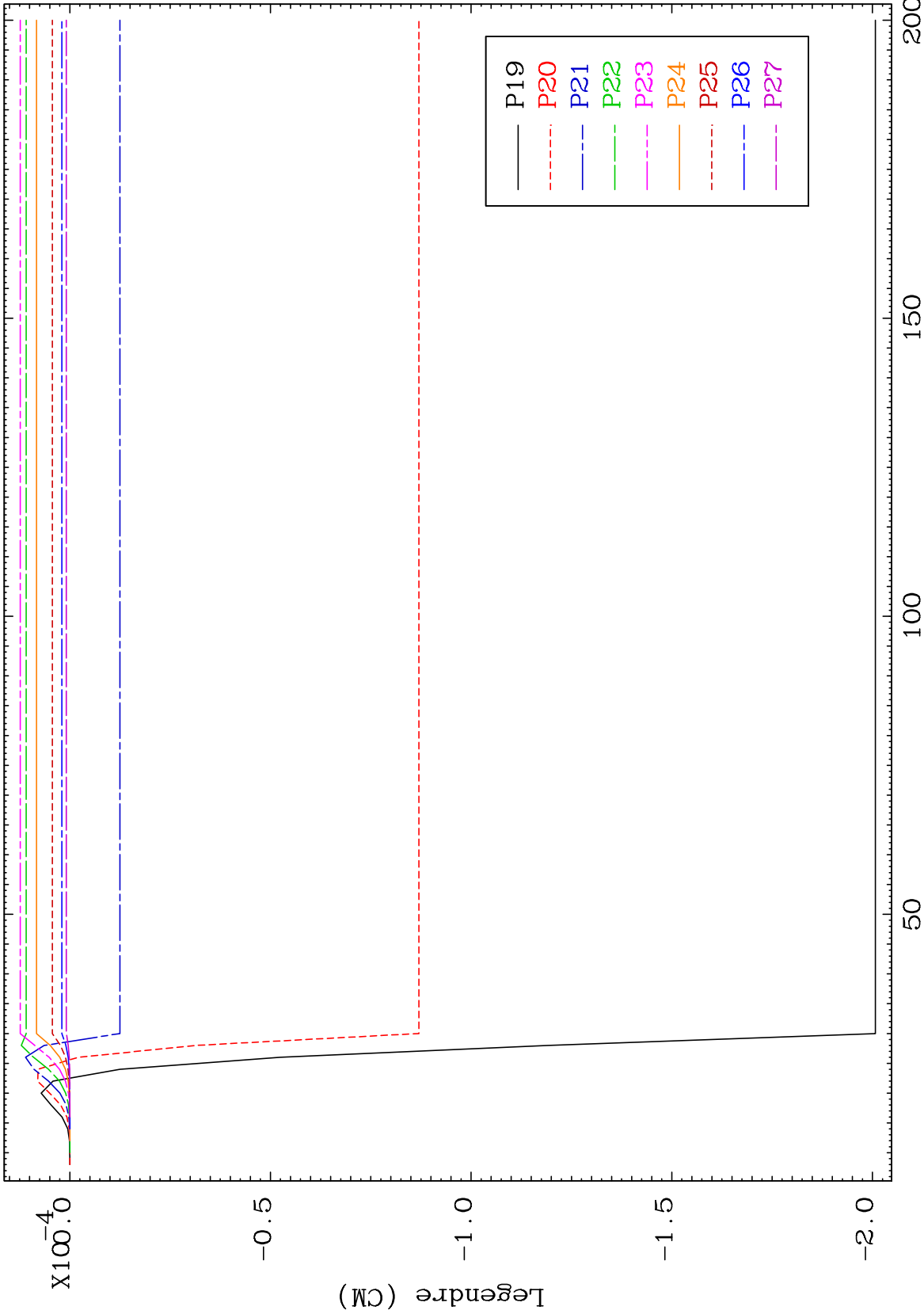


73 58-Ce-128

MAT 5801

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

58-Ce-128



58-Ce-128

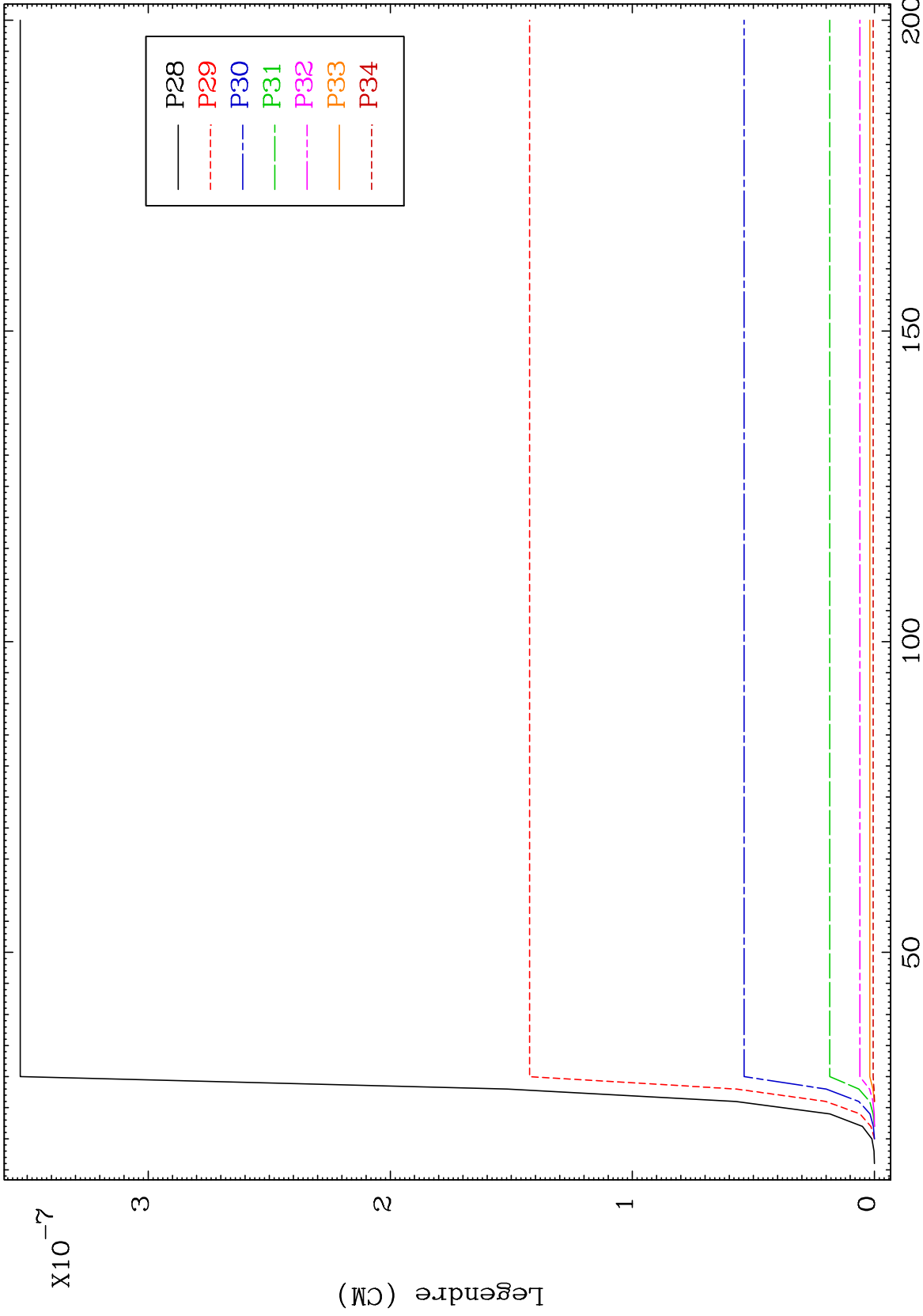
Incident Energy (MeV)

74

MAT 5801

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

58-Ce-128



75

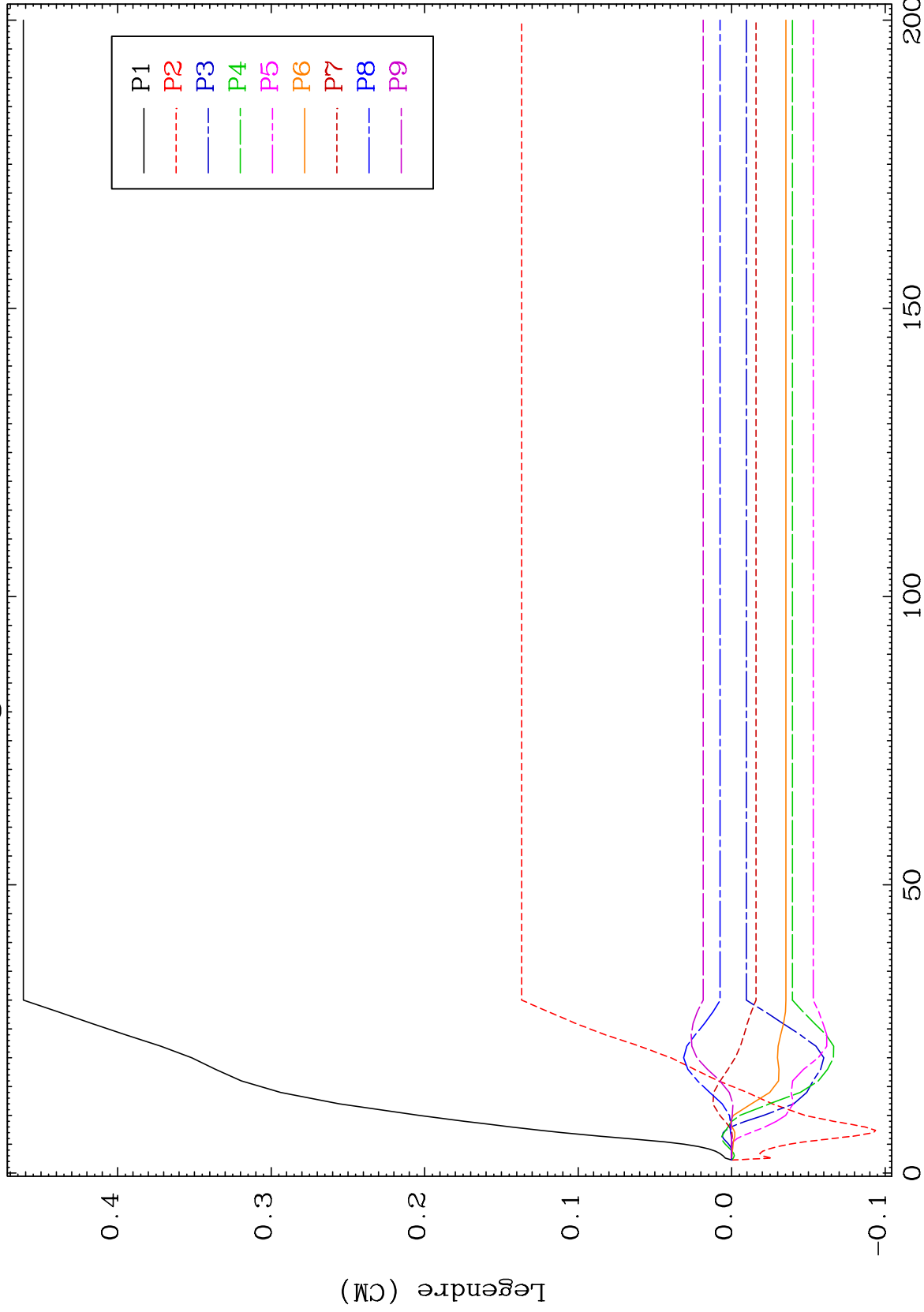
Incident Energy (MeV)

58-Ce-128

MAT 5801

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

58-Ce-128



76

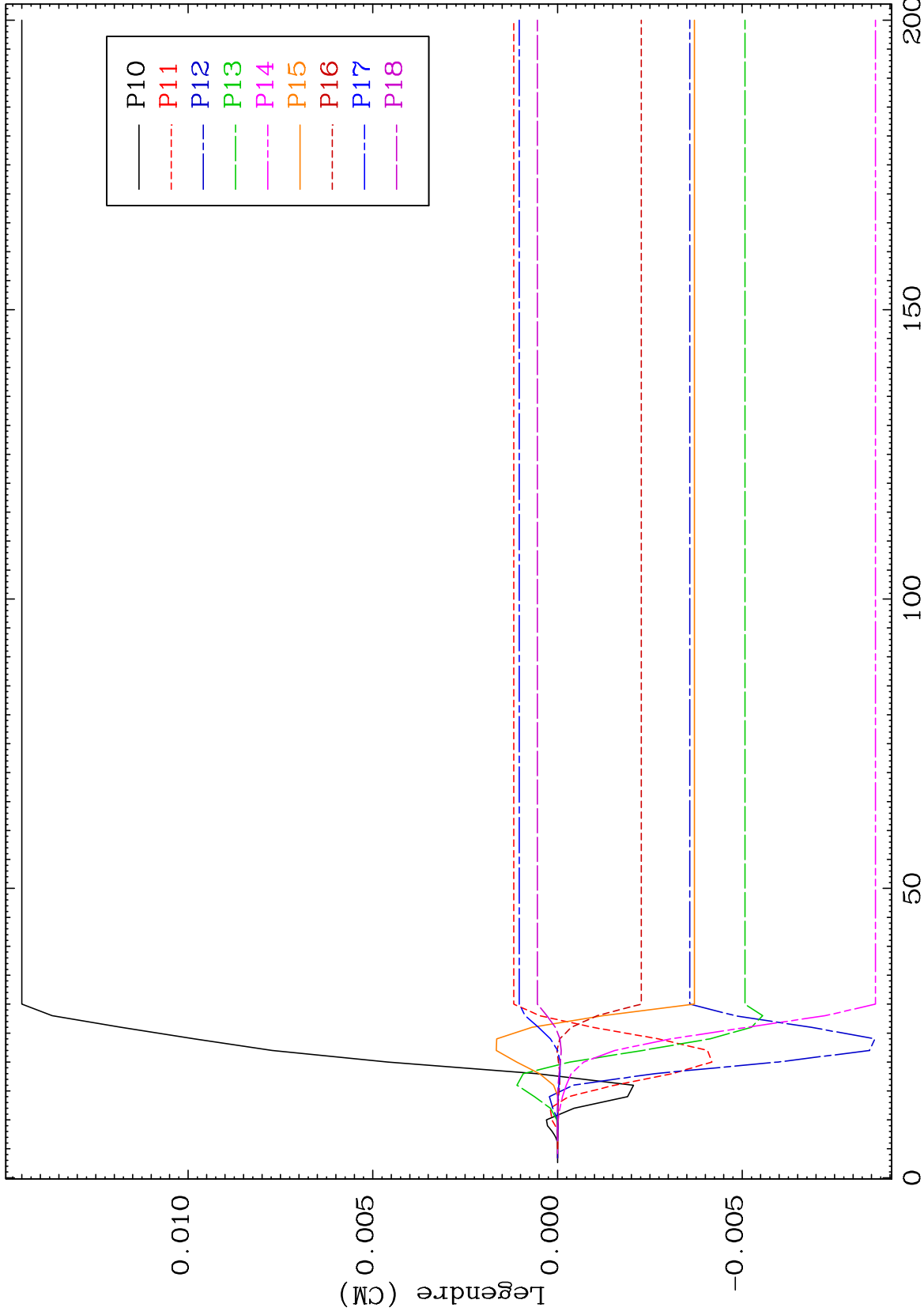
Incident Energy (MeV)

58-Ce-128

MAT 5801

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

58-Ce-128



77

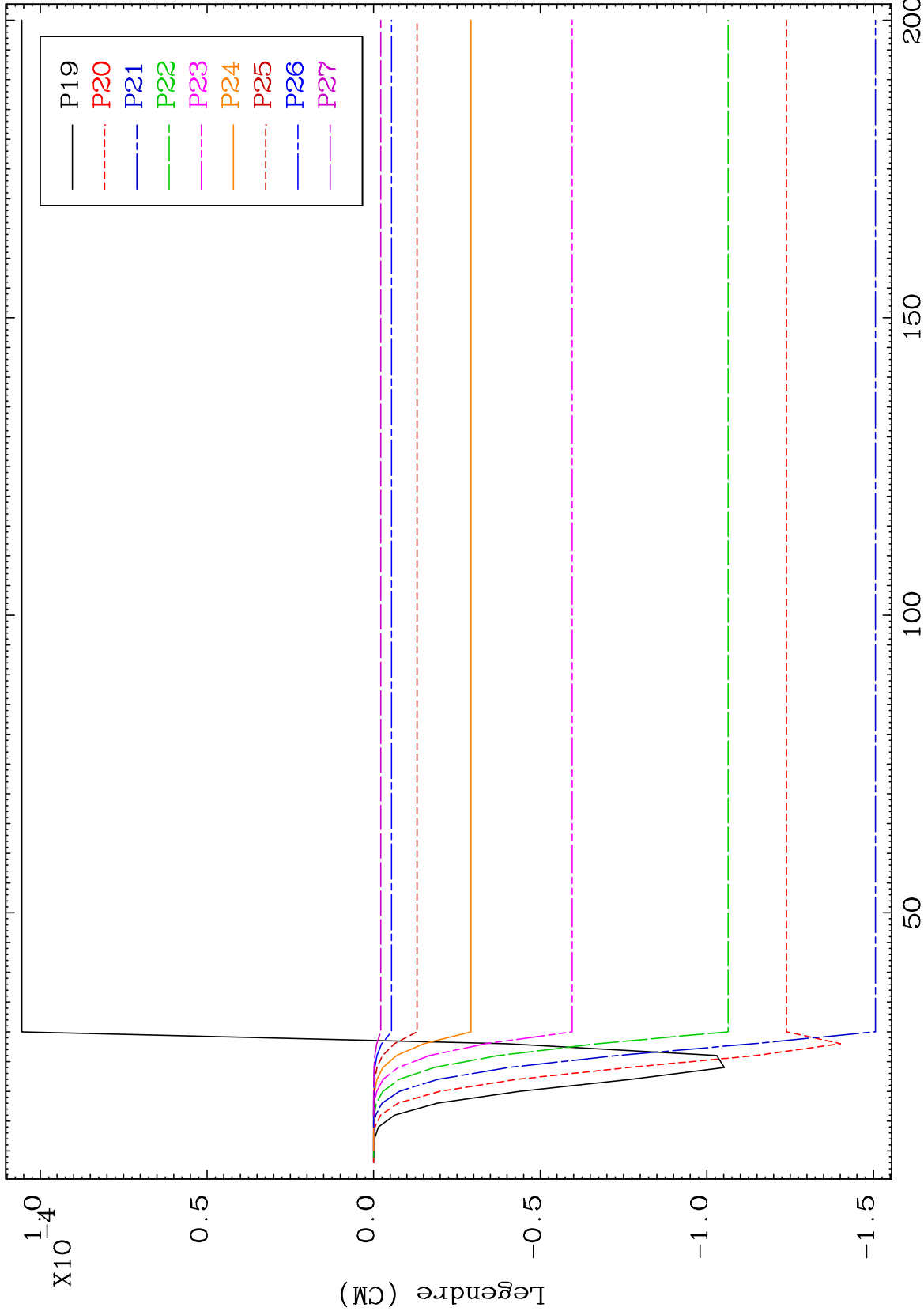
Incident Energy (MeV)

58-Ce-128

MAT 5801

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

58-Ce-128



78

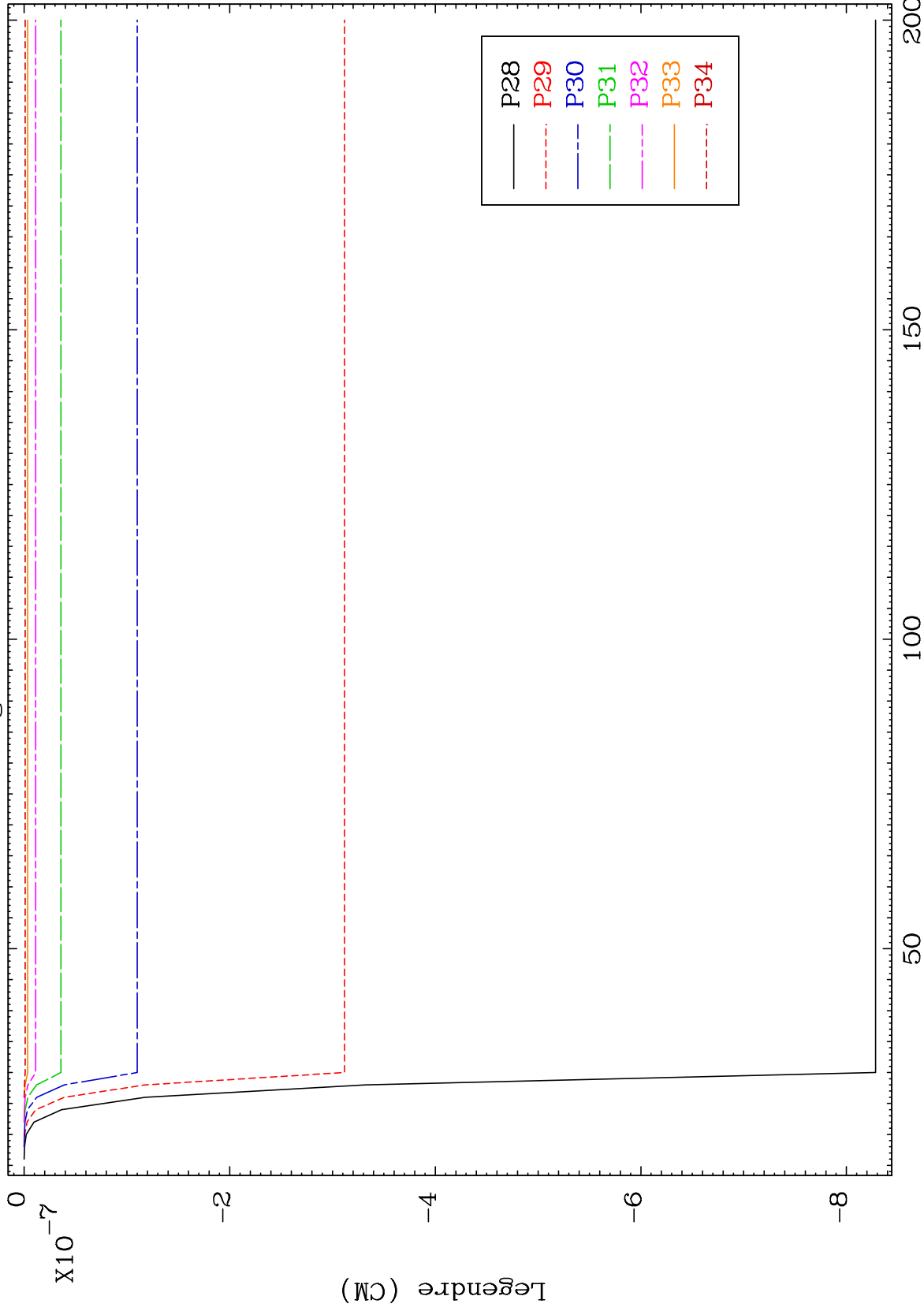
Incident Energy (MeV)

58-Ce-128

MAT 5801

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

58-Ce-128



79

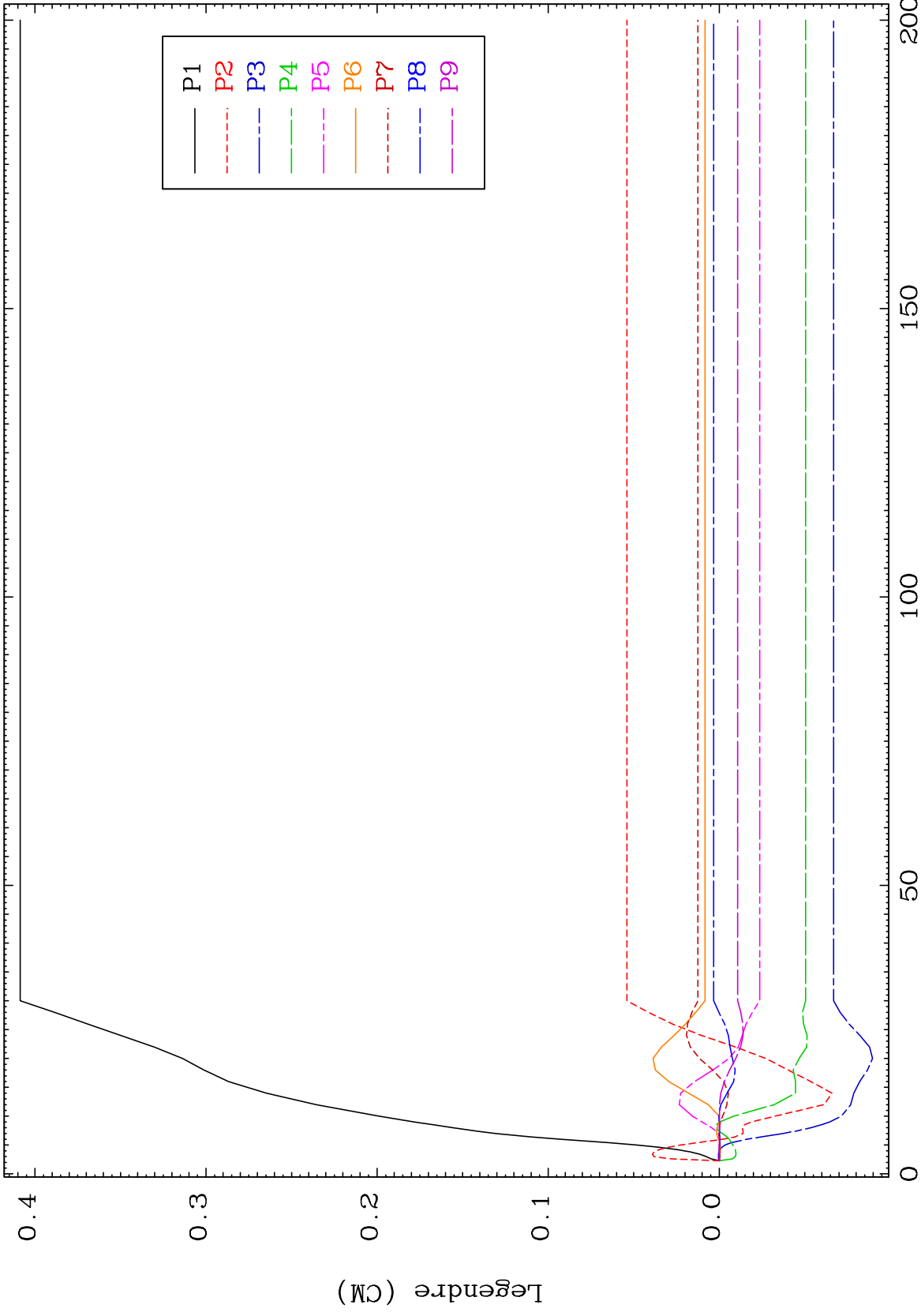
58-Ce-128



MAT 5801

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

58-Ce-128



58-Ce-128

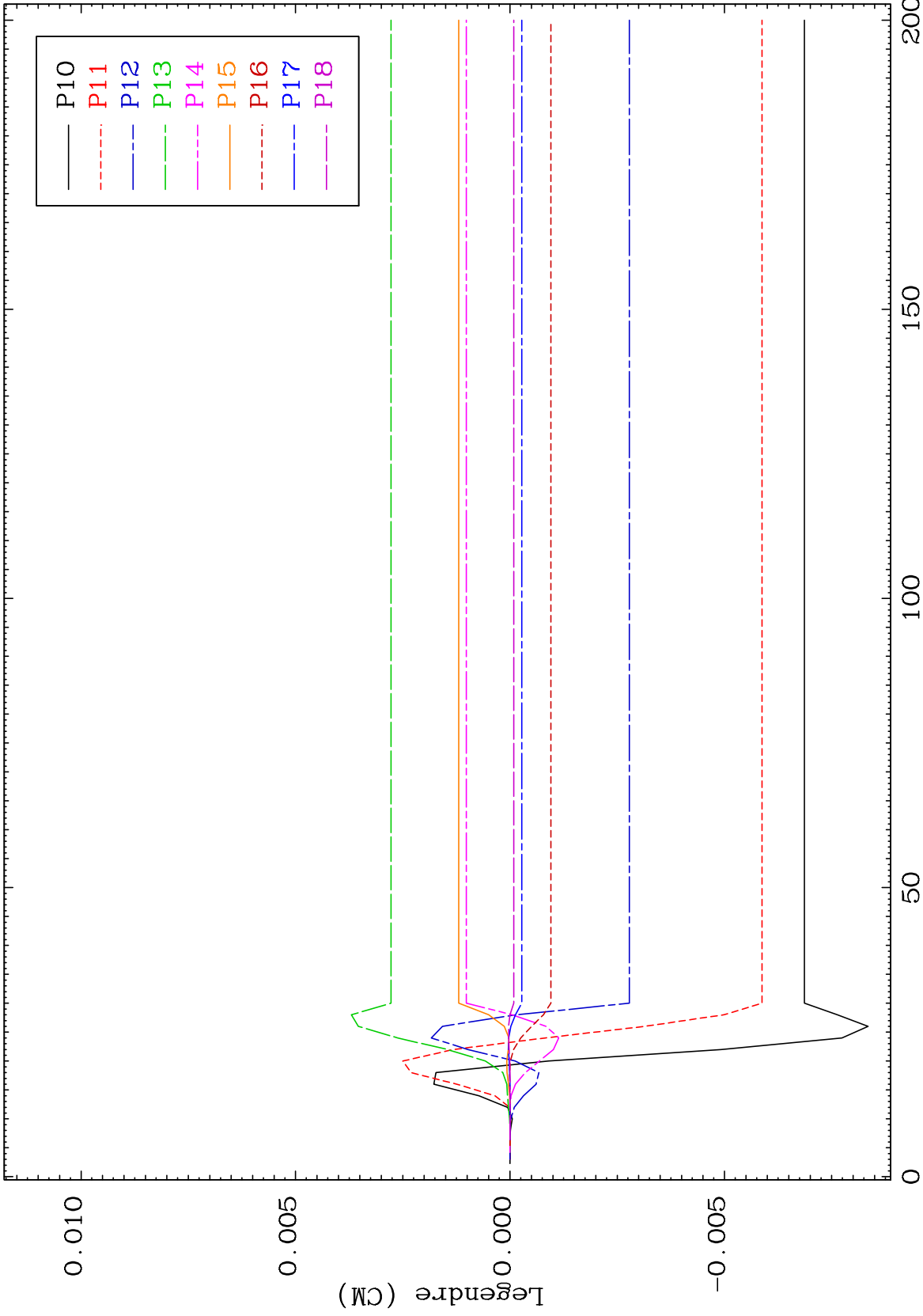
Incident Energy (MeV)

80

MAT 5801

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

58-Ce-128



81

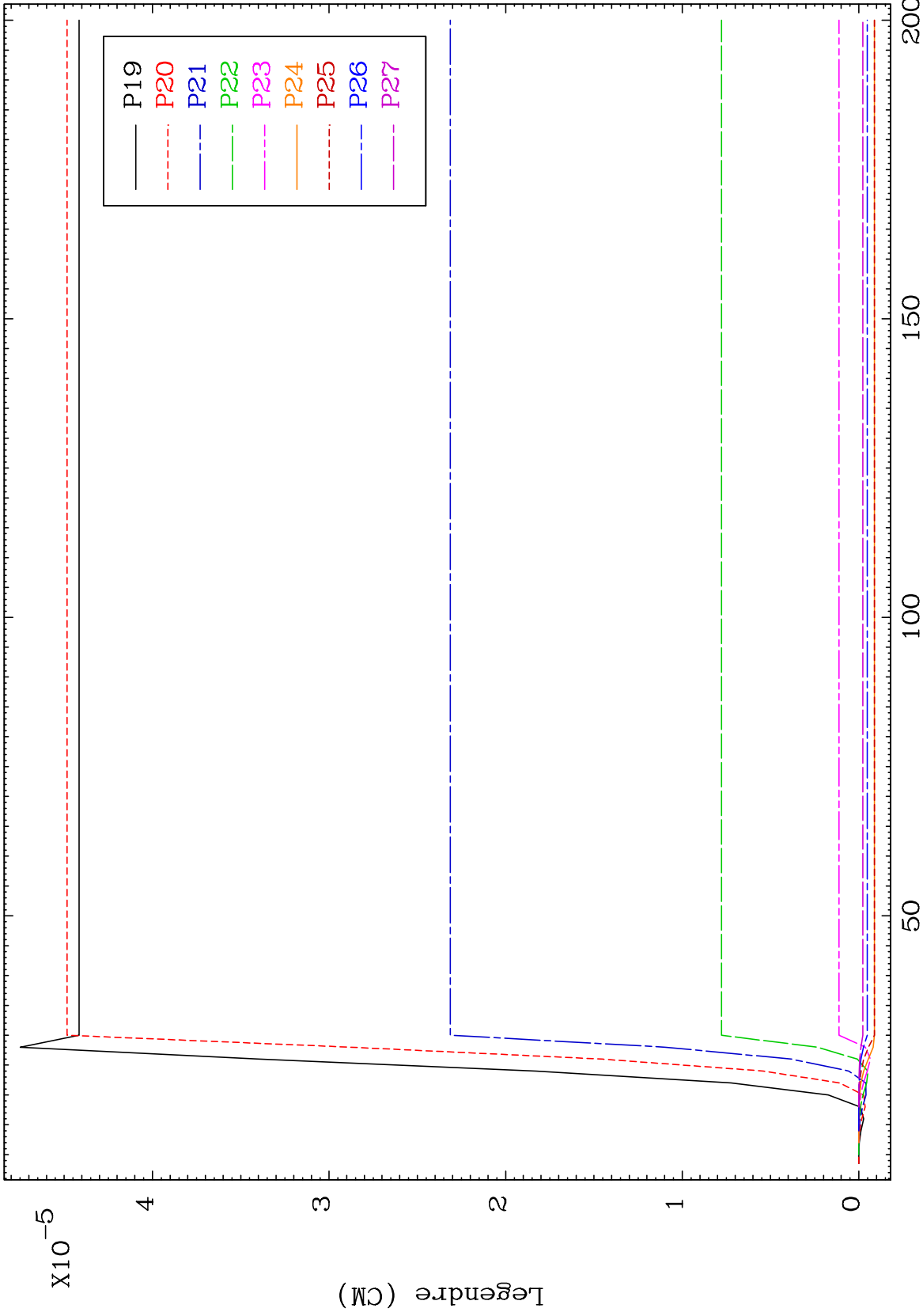
Incident Energy (MeV)

58-Ce-128

MAT 5801

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

58-Ce-128



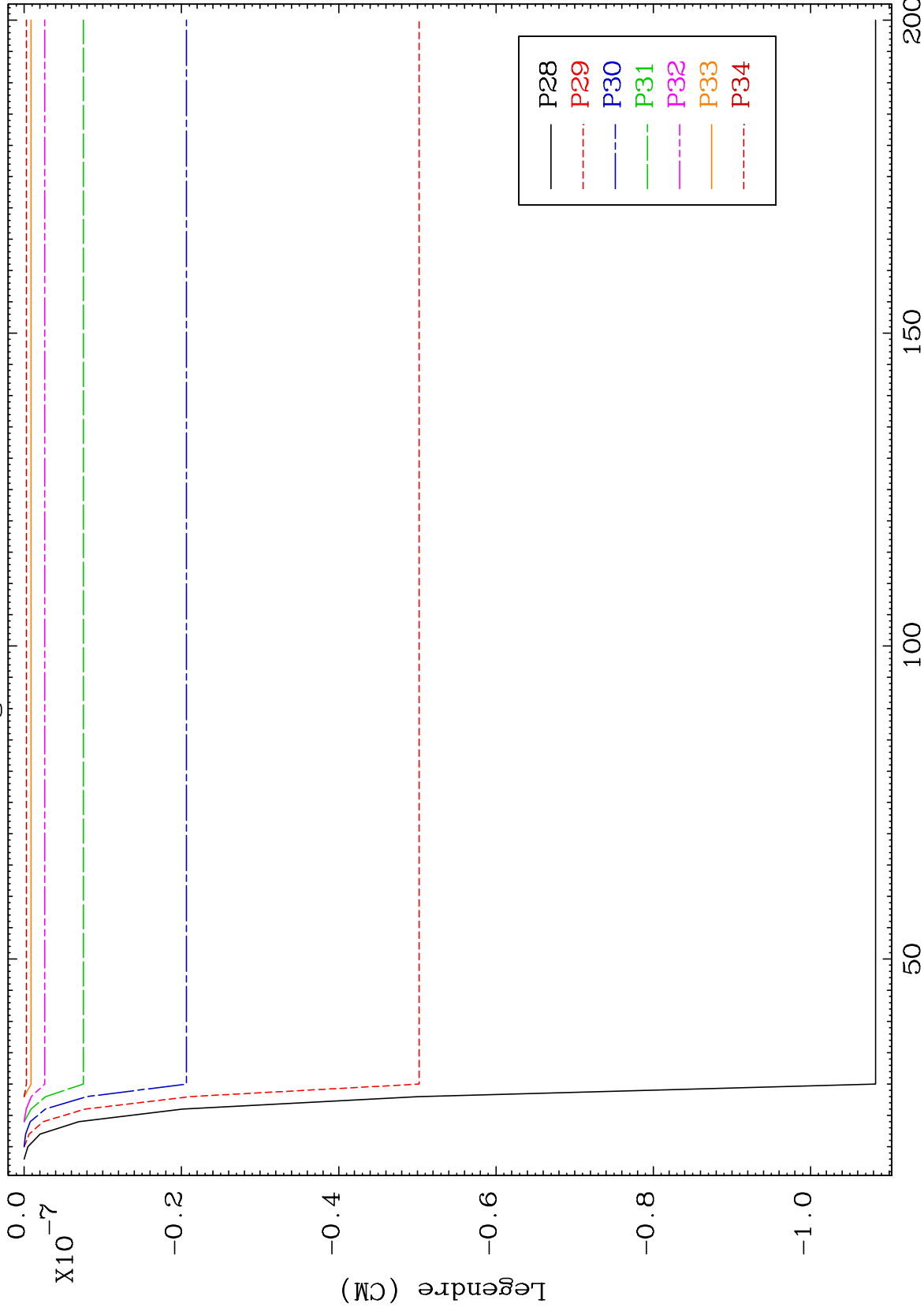
82

58-Ce-128

MAT 5801

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

58-Ce-128



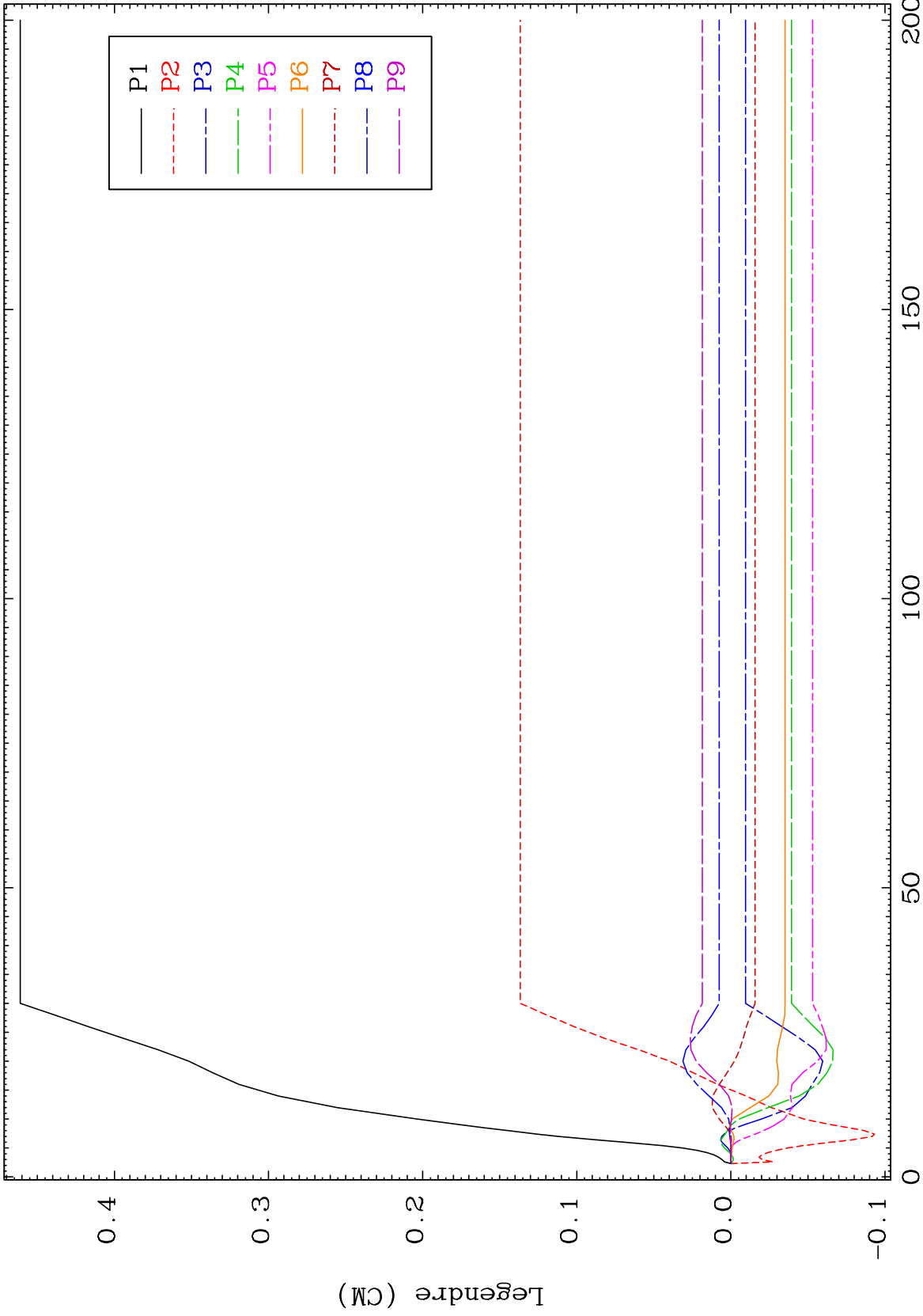
83

58-Ce-128

MAT 5801

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

58-Ce-128



84

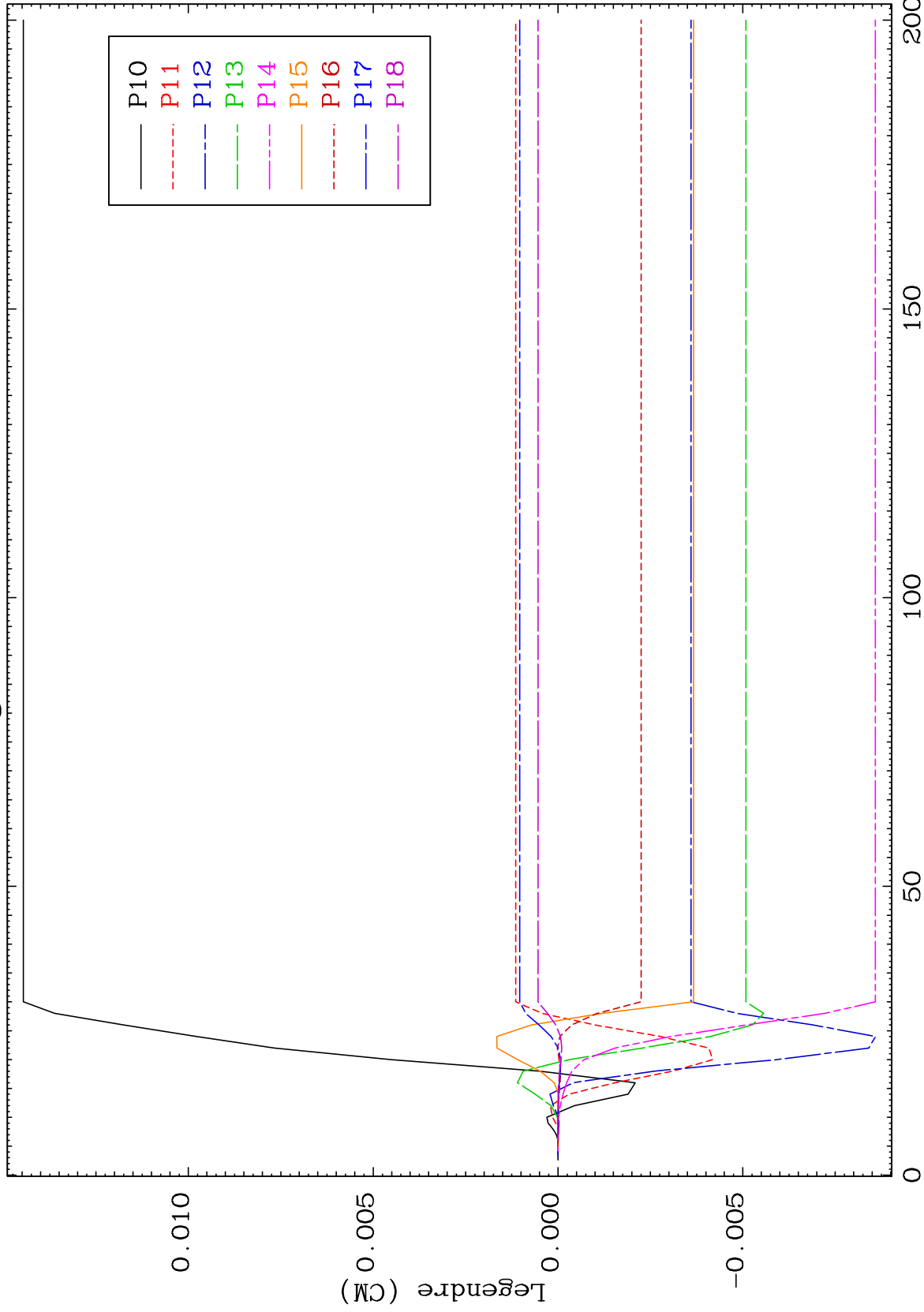
Incident Energy (MeV)

58-Ce-128

MAT 5801

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

58-Ce-128



85

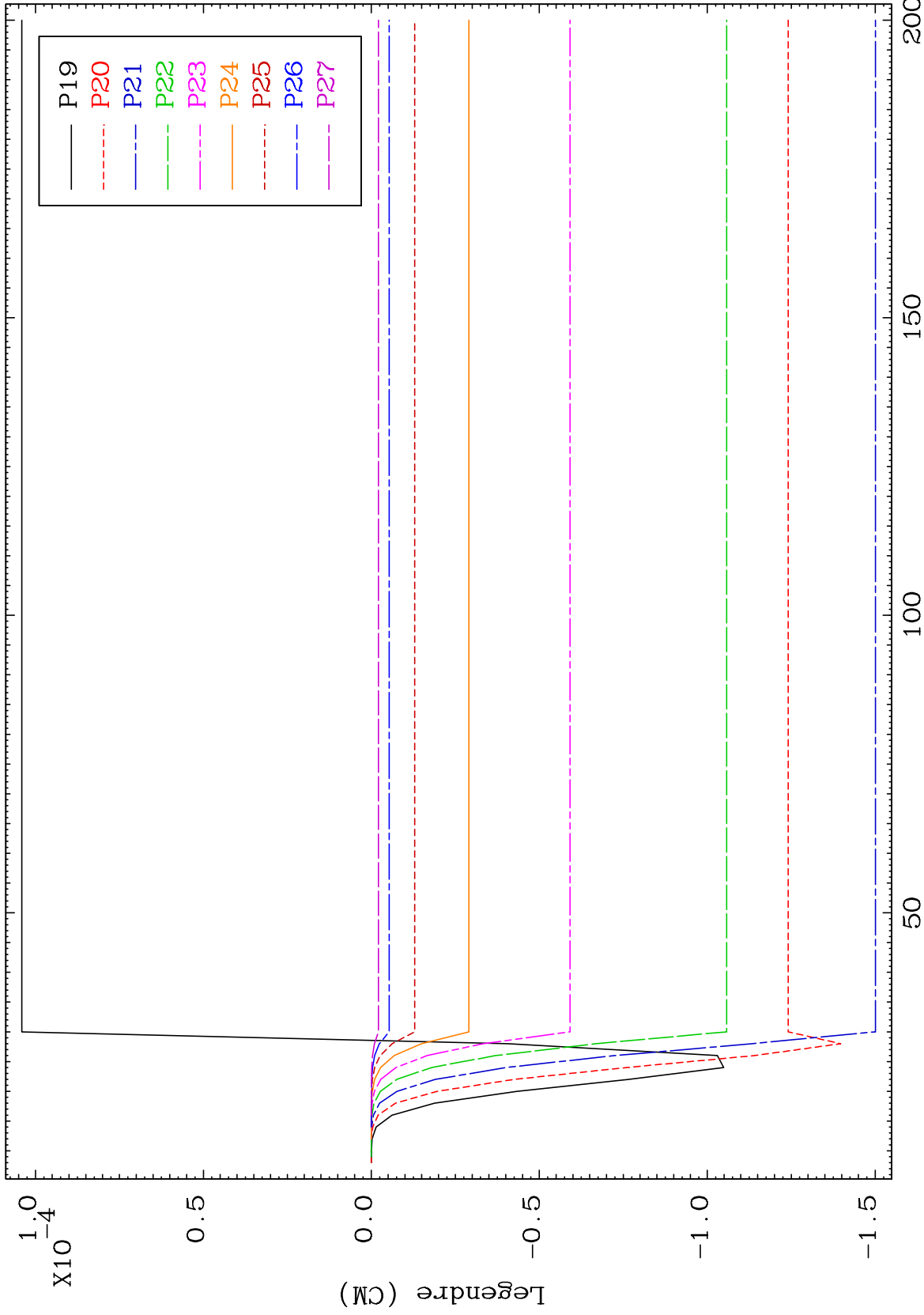
Incident Energy (MeV)

58-Ce-128

MAT 5801

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

58-Ce-128



86

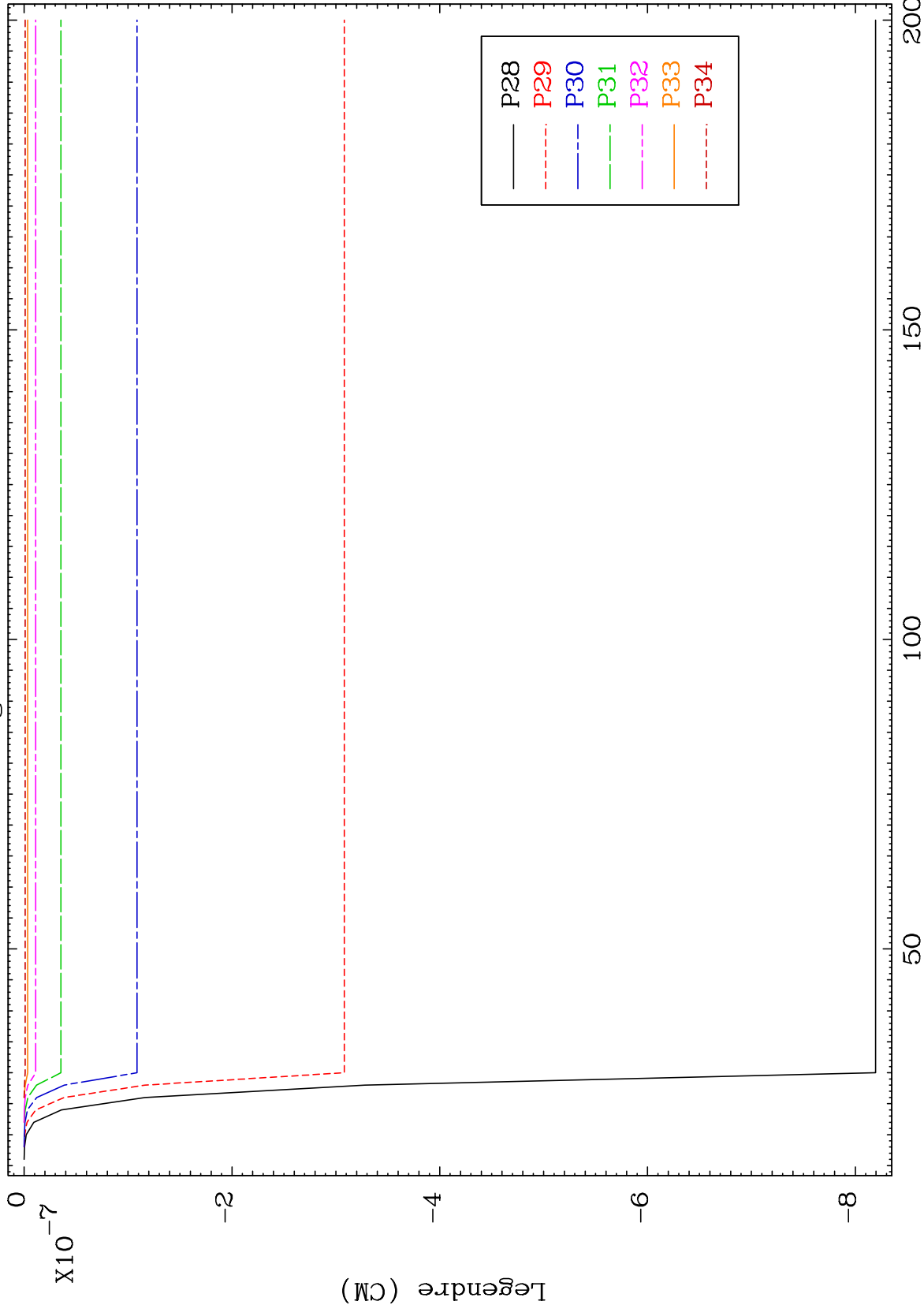
Incident Energy (MeV)

58-Ce-128

MAT 5801

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

58-Ce-128



87

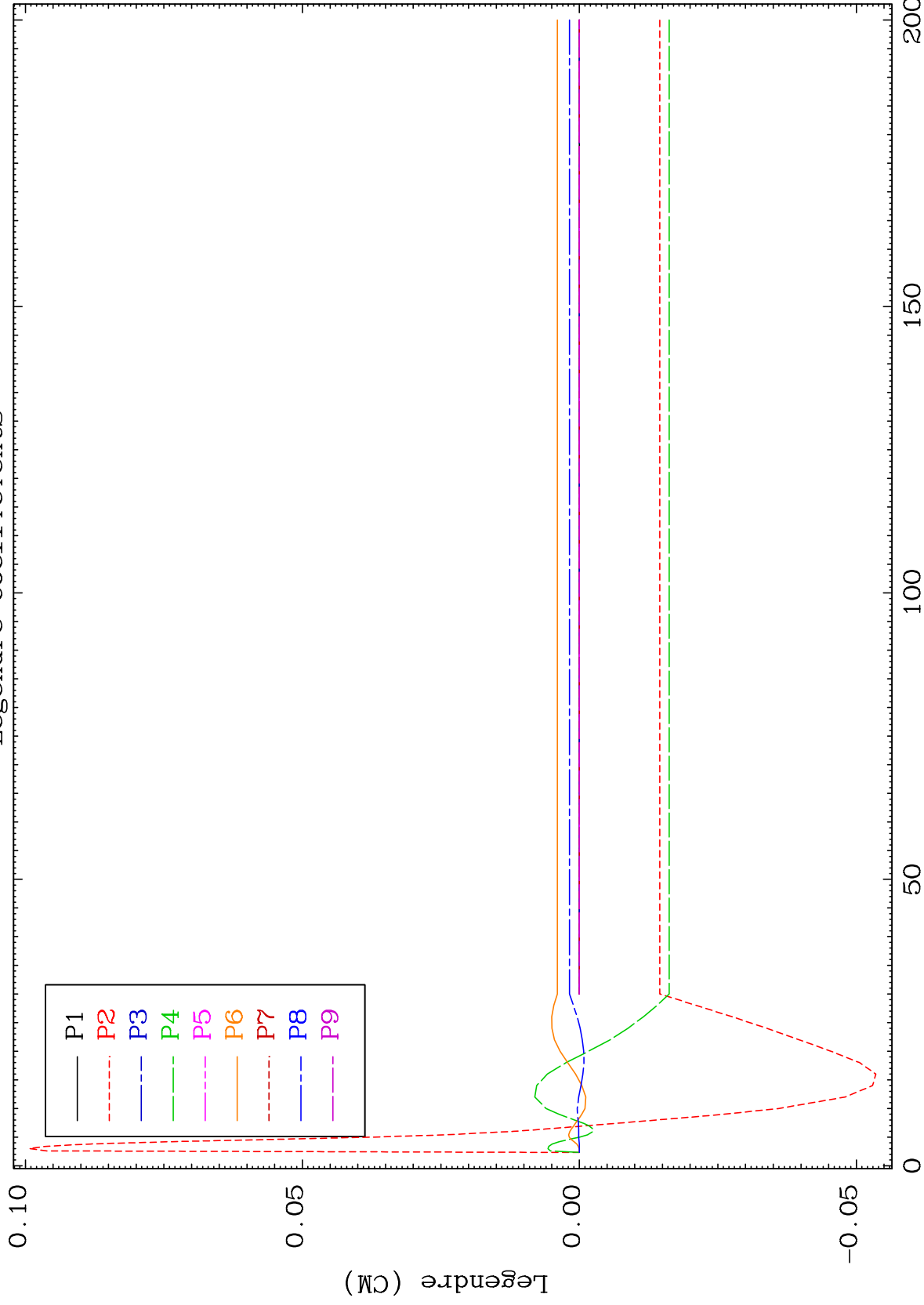
58-Ce-128



MAT 5801

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

58-Ce-128



88

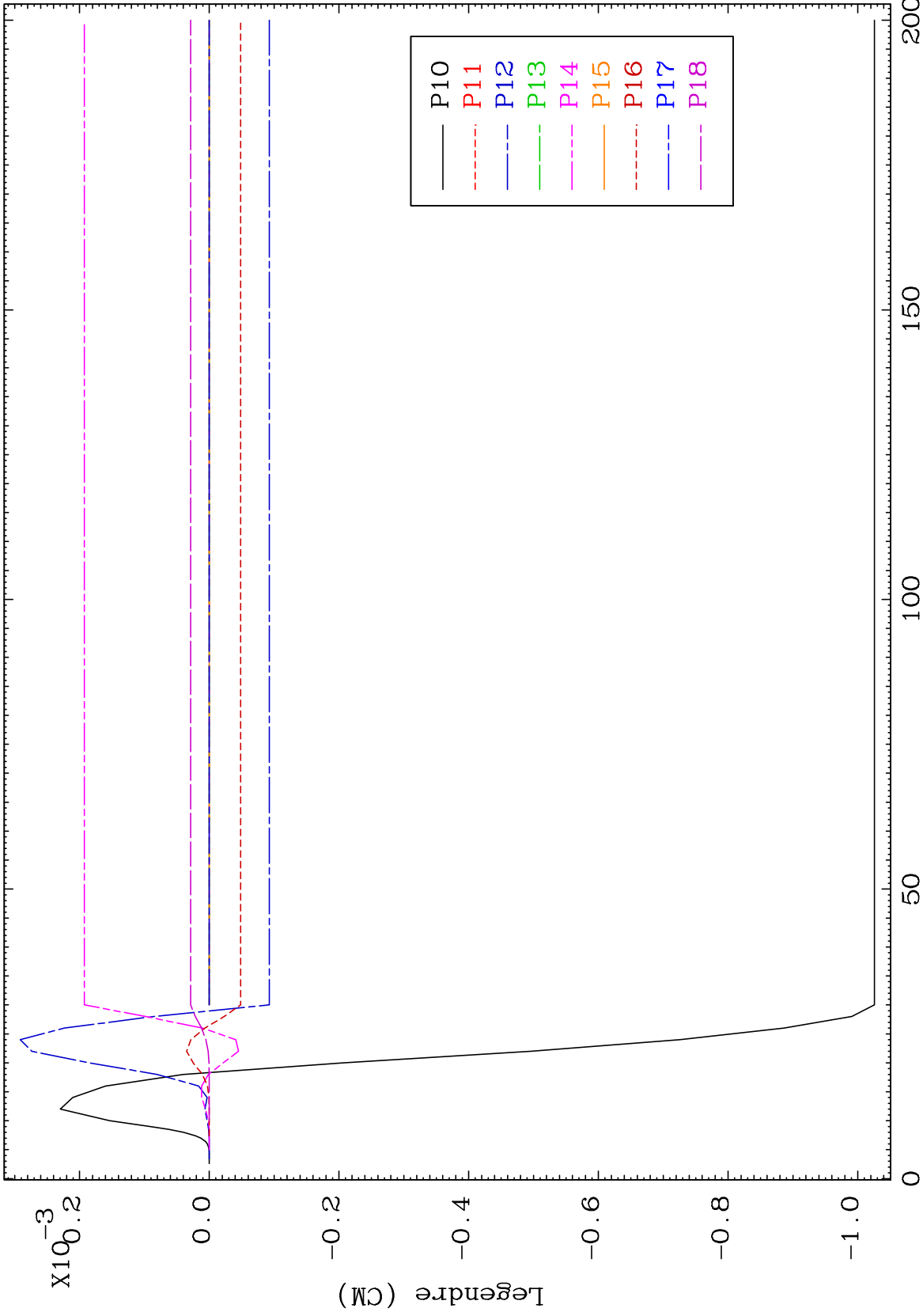
Incident Energy (MeV)

58-Ce-128

MAT 5801

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

58-Ce-128

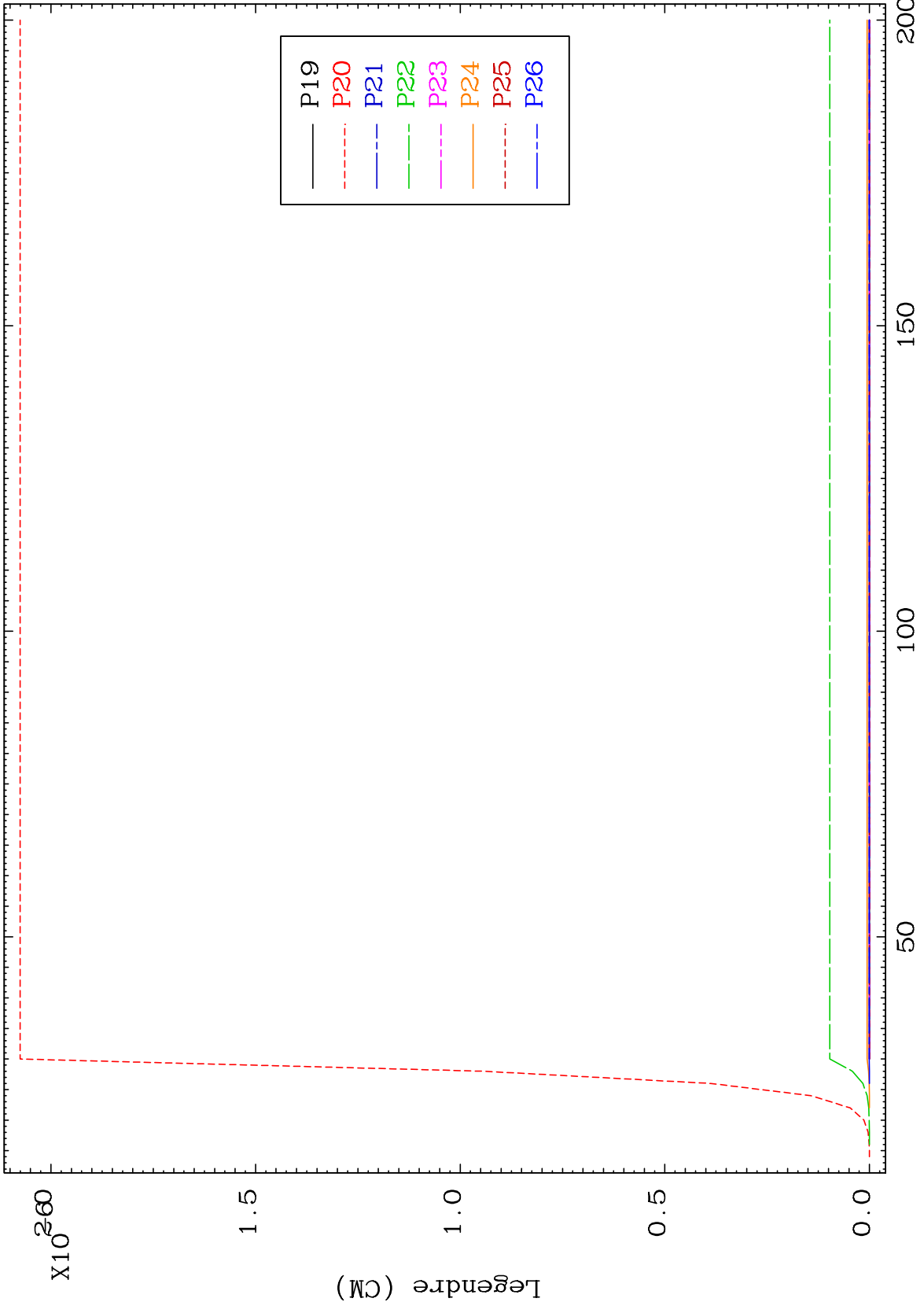


89

Incident Energy (MeV)

58-Ce-128

MAT 5801 MT= 69 (n,n') Level Legendre Coefficients 58-Ce-128

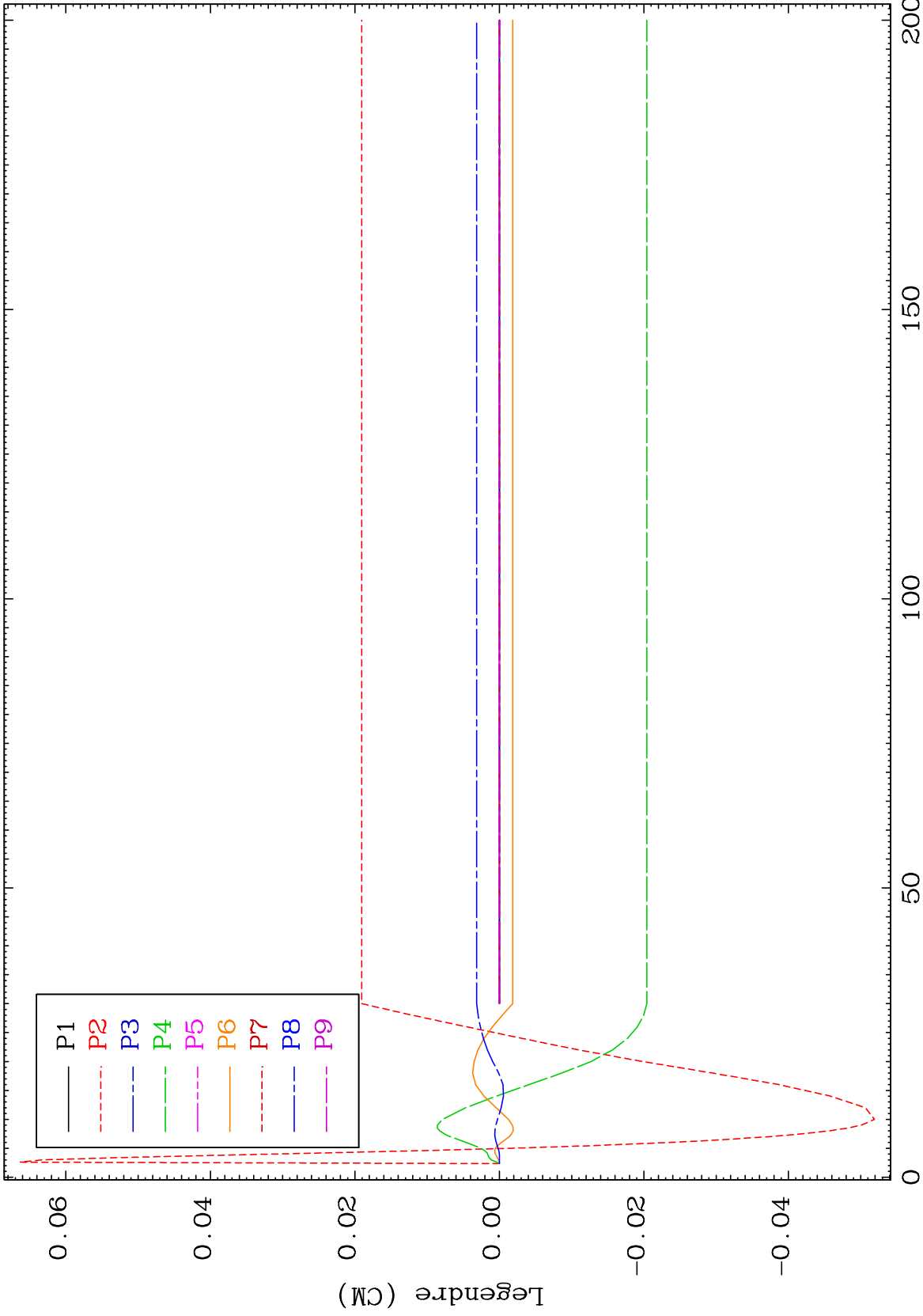


58-Ce-128

MAT 5801

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

58-Ce-128



91

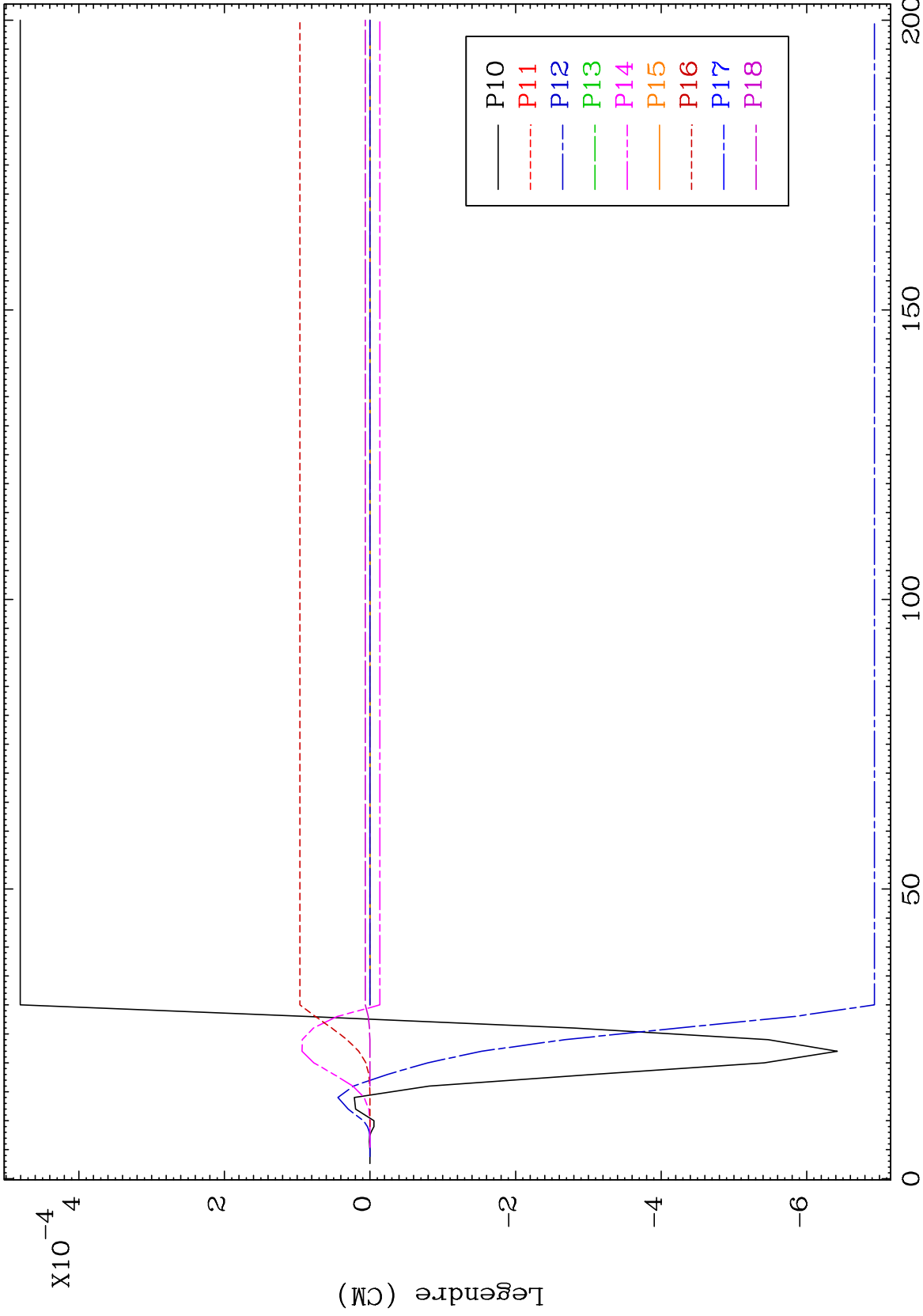
Incident Energy (MeV)

58-Ce-128

MAT 5801

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

58-Ce-128



92

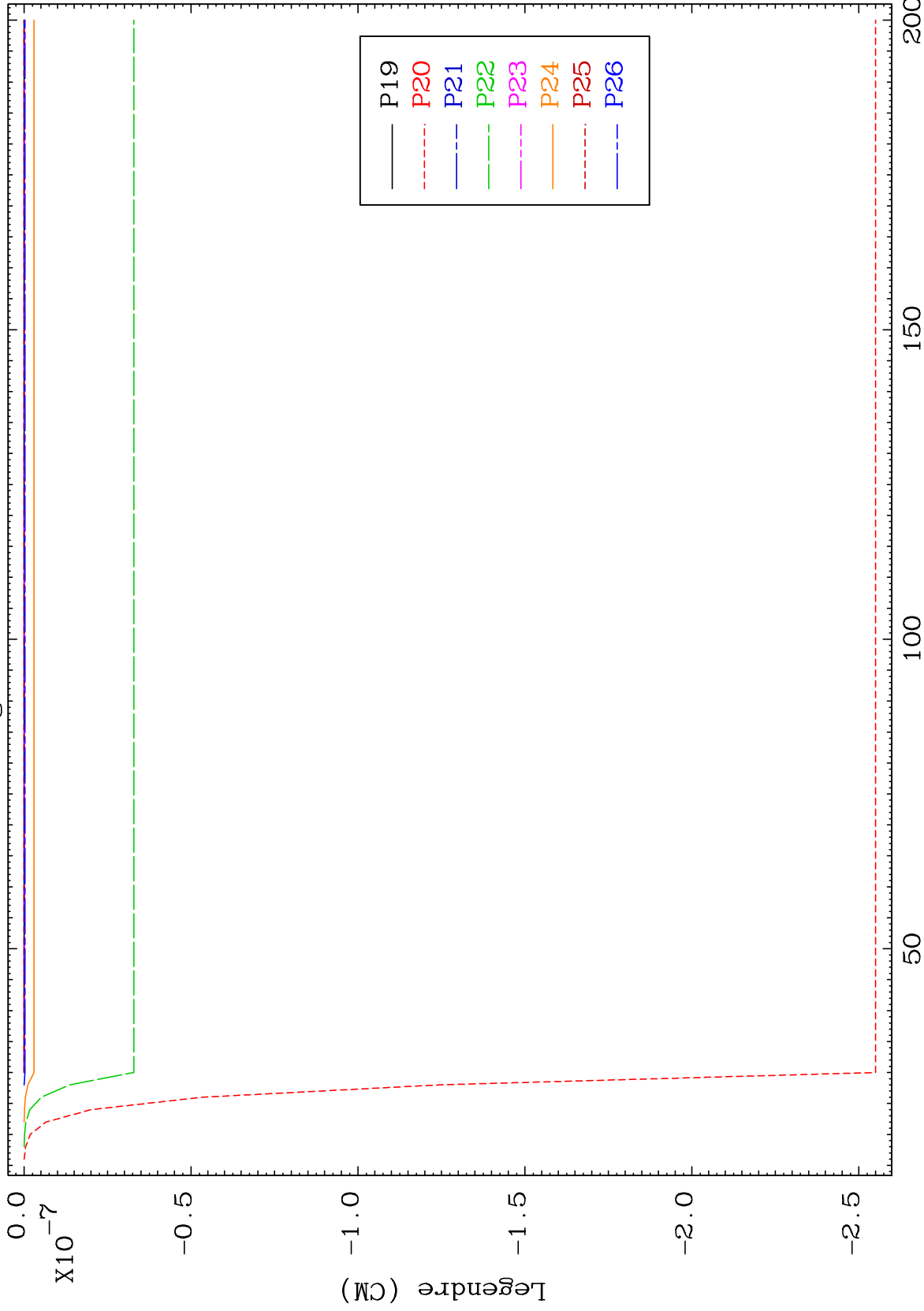
Incident Energy (MeV)

58-Ce-128

MAT 5801

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

58-Ce-128



93

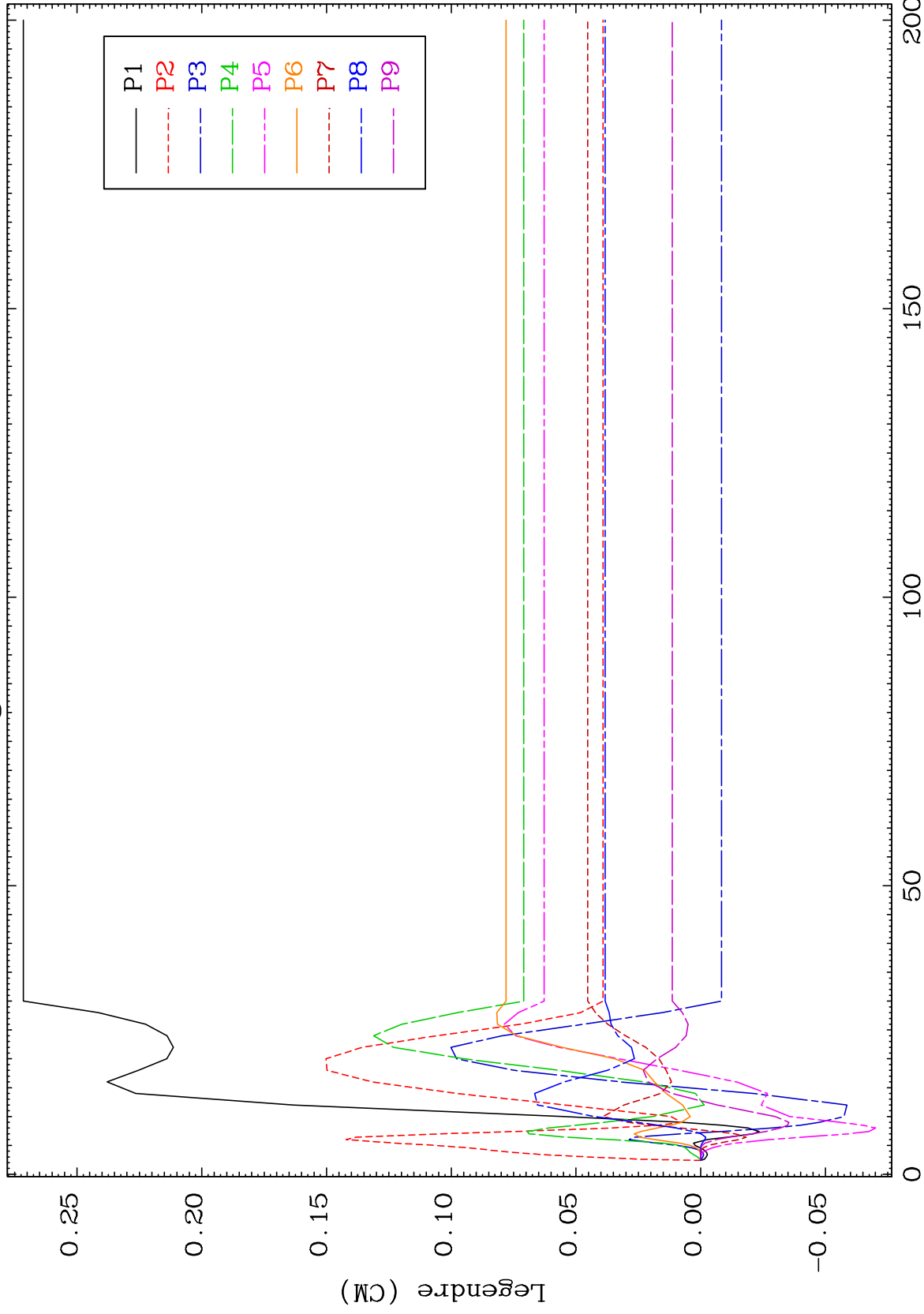
Incident Energy (MeV)

58-Ce-128

MAT 5801

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

58-Ce-128



94

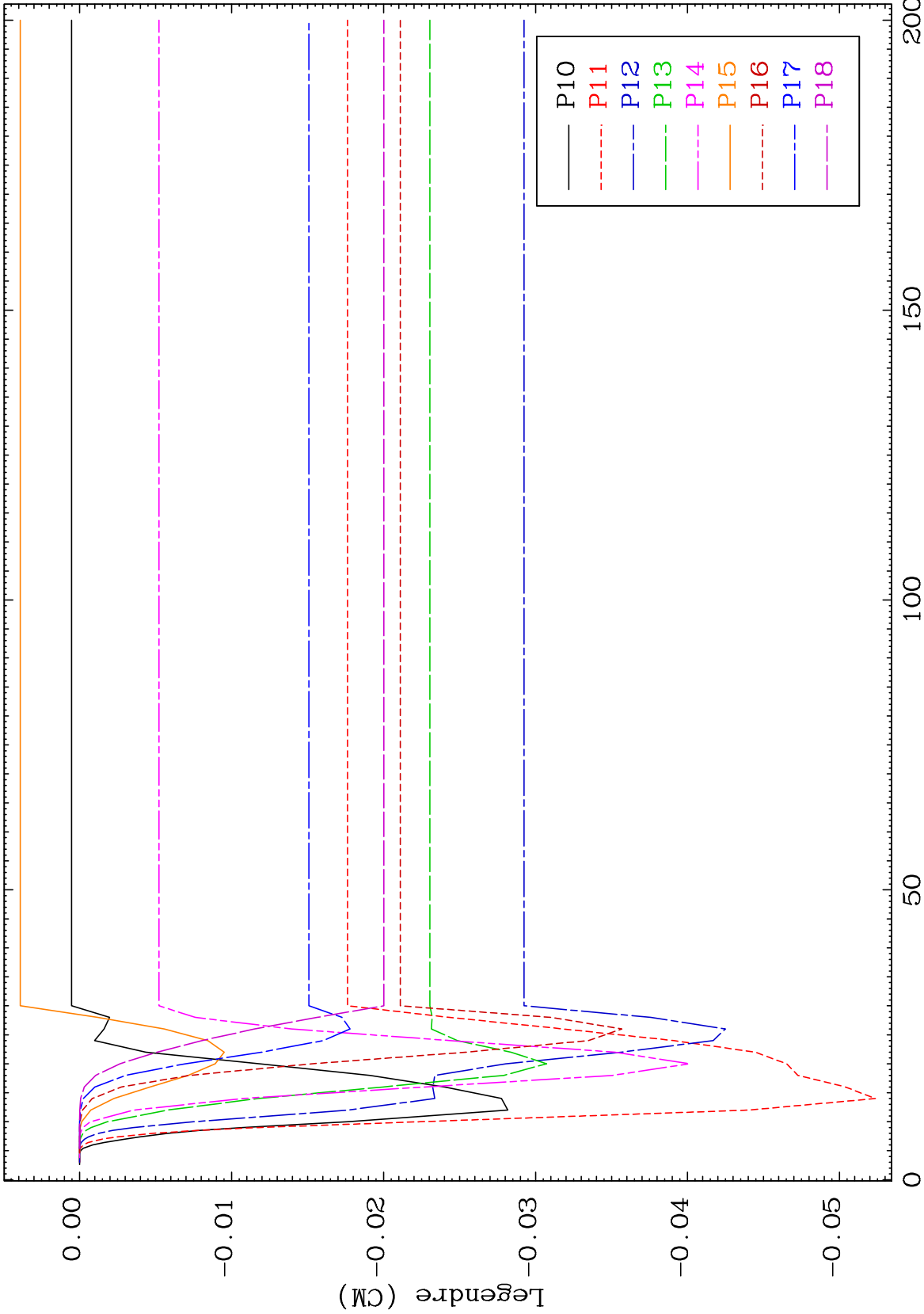
Incident Energy (MeV)

58-Ce-128

MAT 5801

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

58-Ce-128



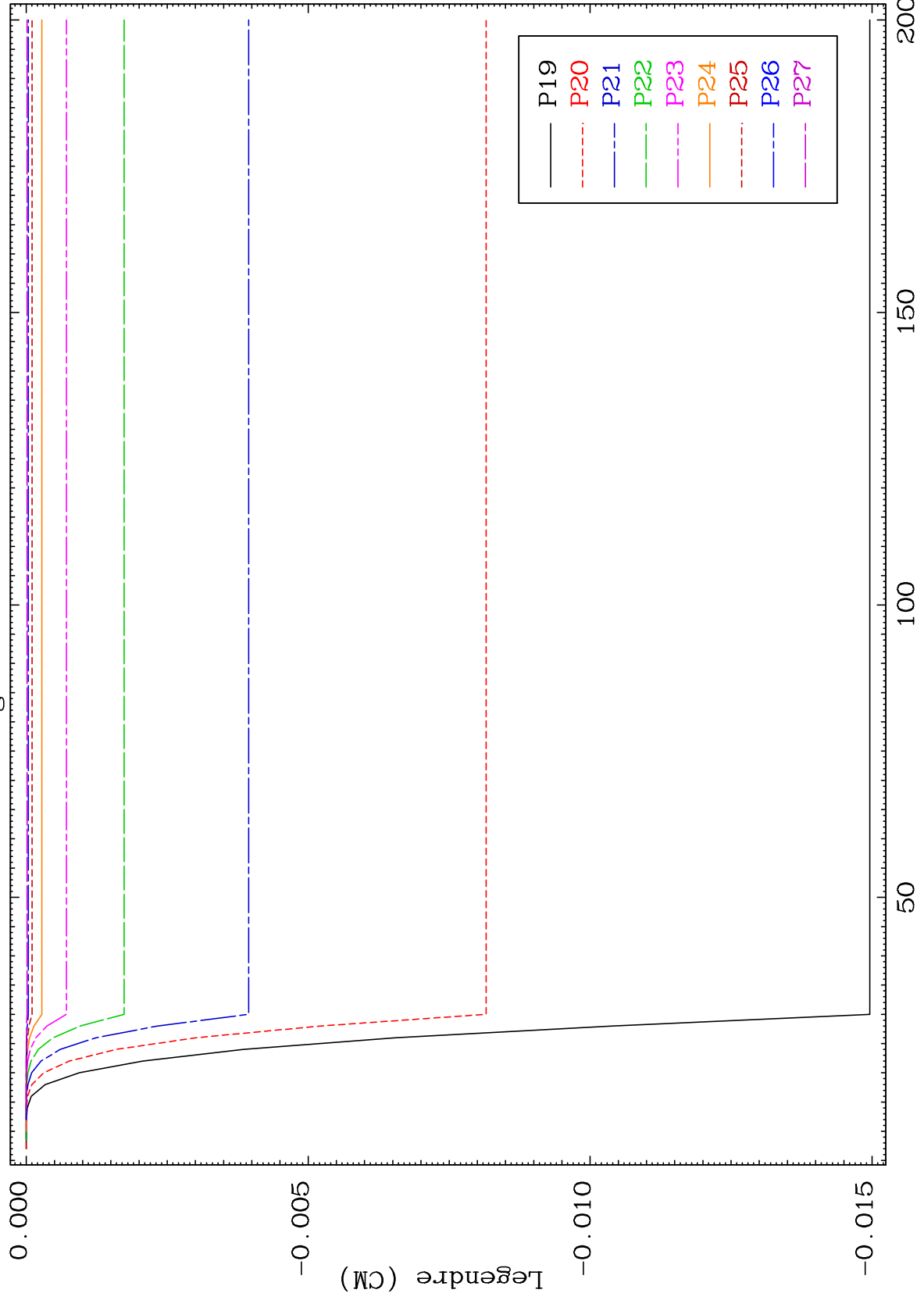
95

Incident Energy (MeV)

58-Ce-128



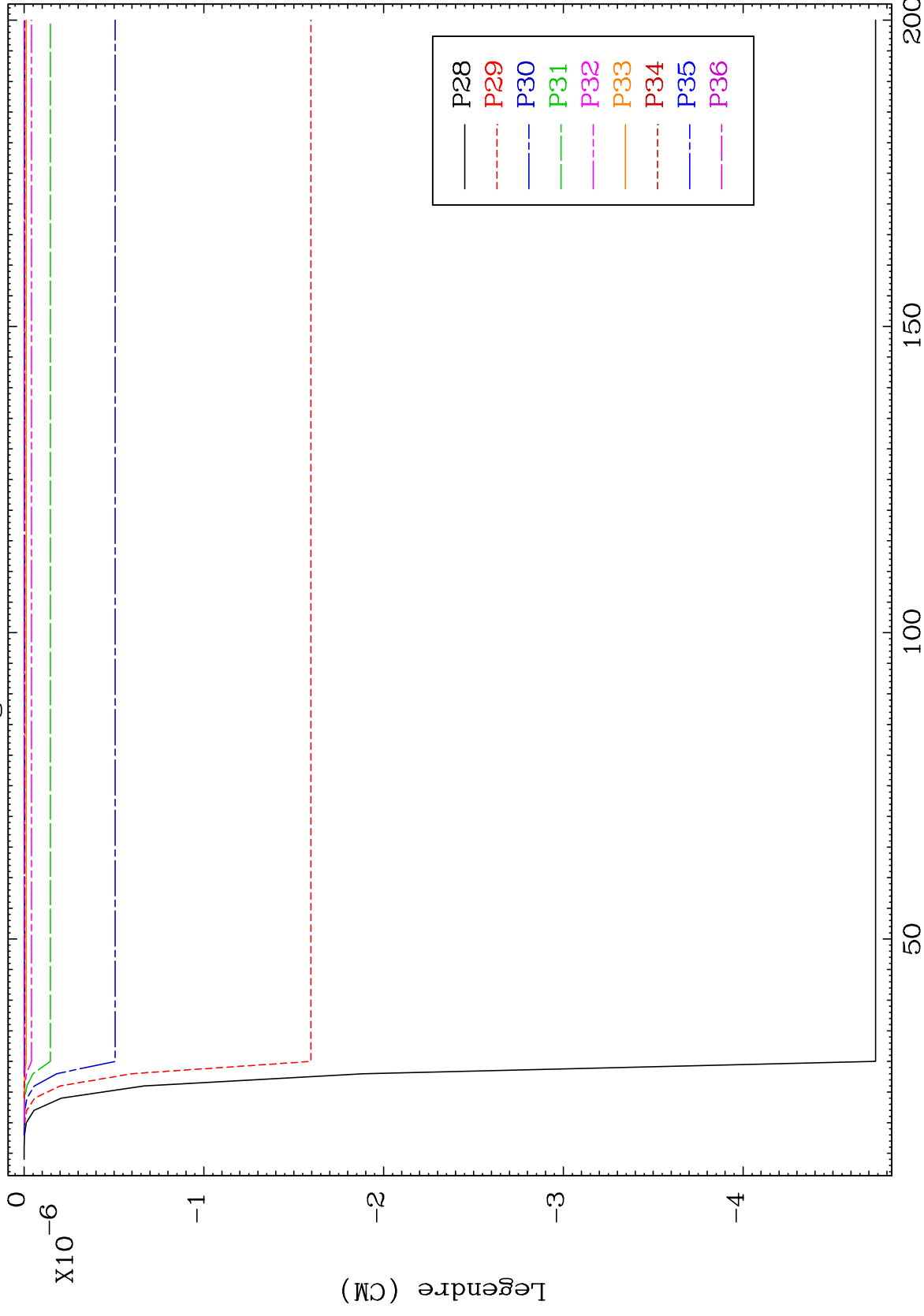
MAT 5801 MT= 71 (n,n') Level Legendre Coefficients 58-Ce-128



MAT 5801

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

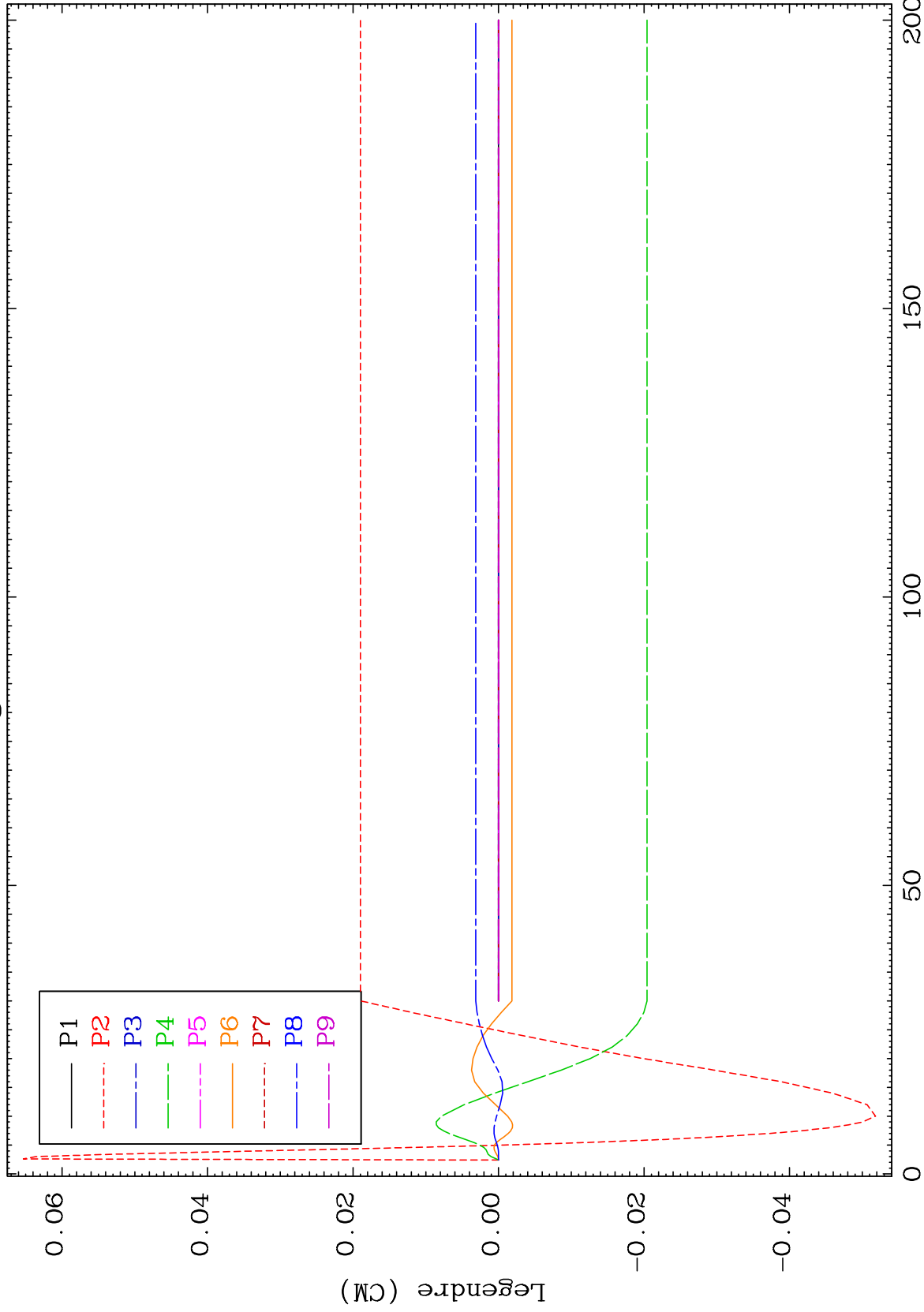
58-Ce-128



MAT 5801

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

58-Ce-128



98

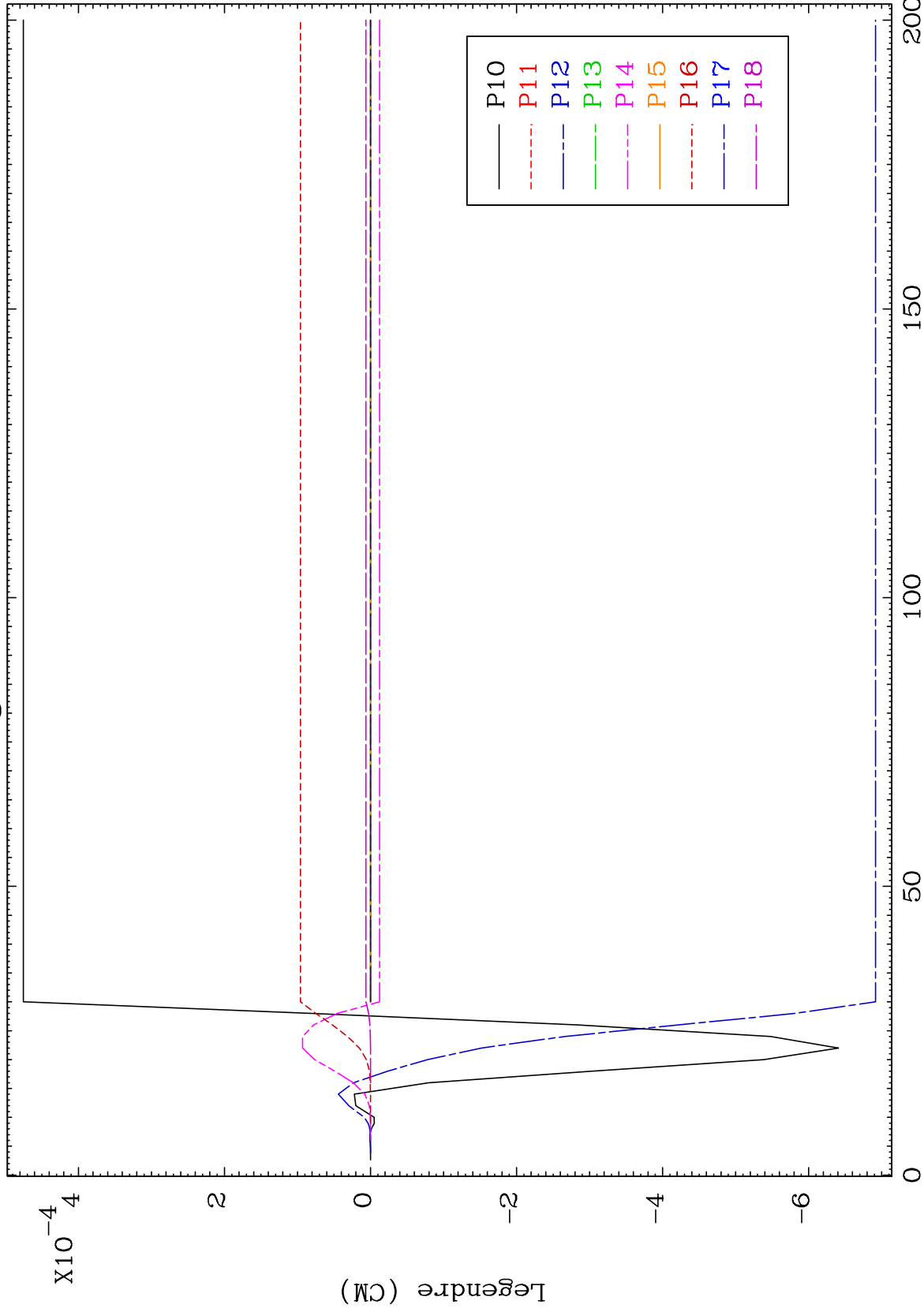
Incident Energy (MeV)

58-Ce-128

MAT 5801

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

58-Ce-128



99

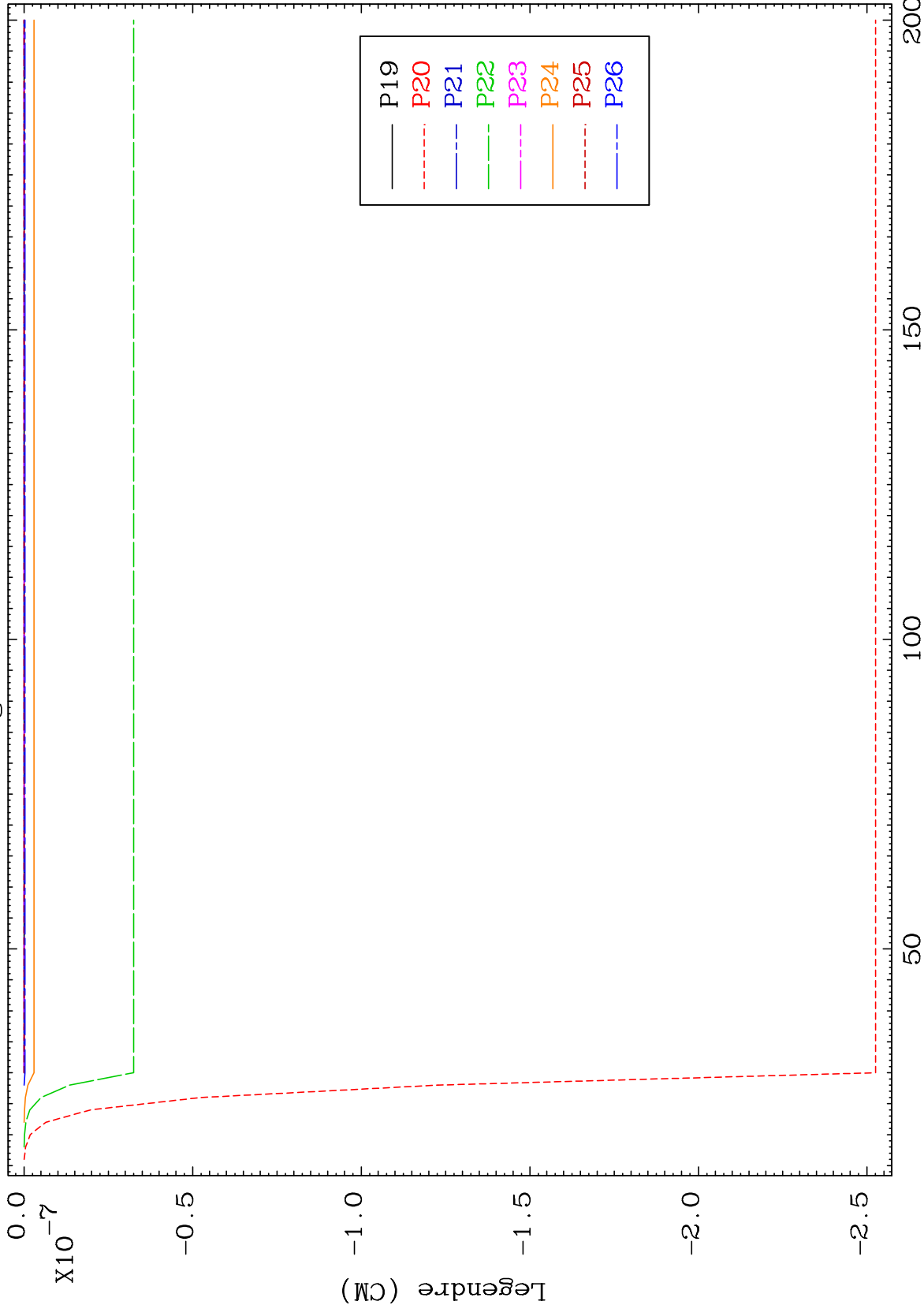
Incident Energy (MeV)

58-Ce-128

MAT 5801

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

58-Ce-128



58-Ce-128

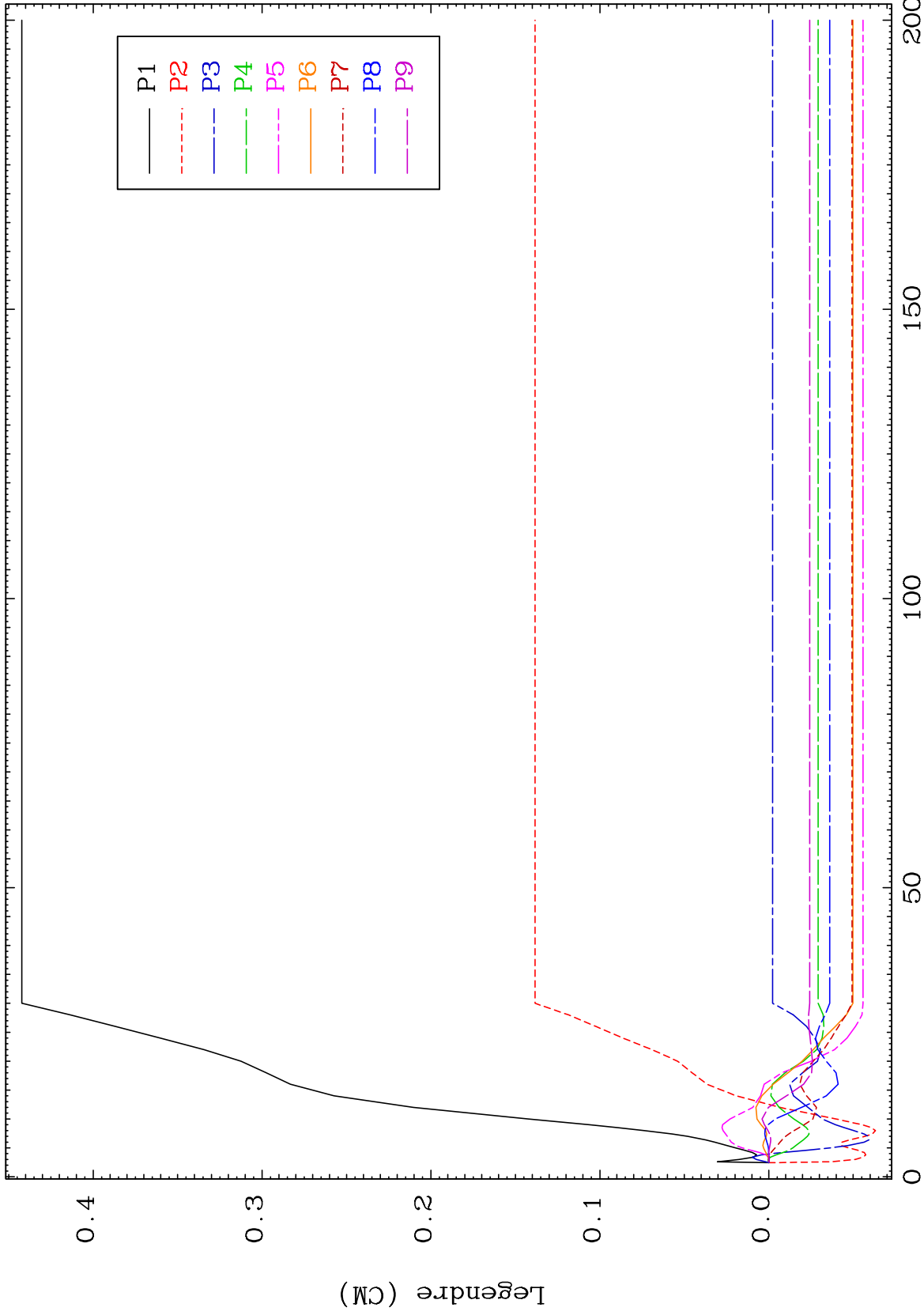
Incident Energy (MeV)

100

MAT 5801

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

58-Ce-128



101

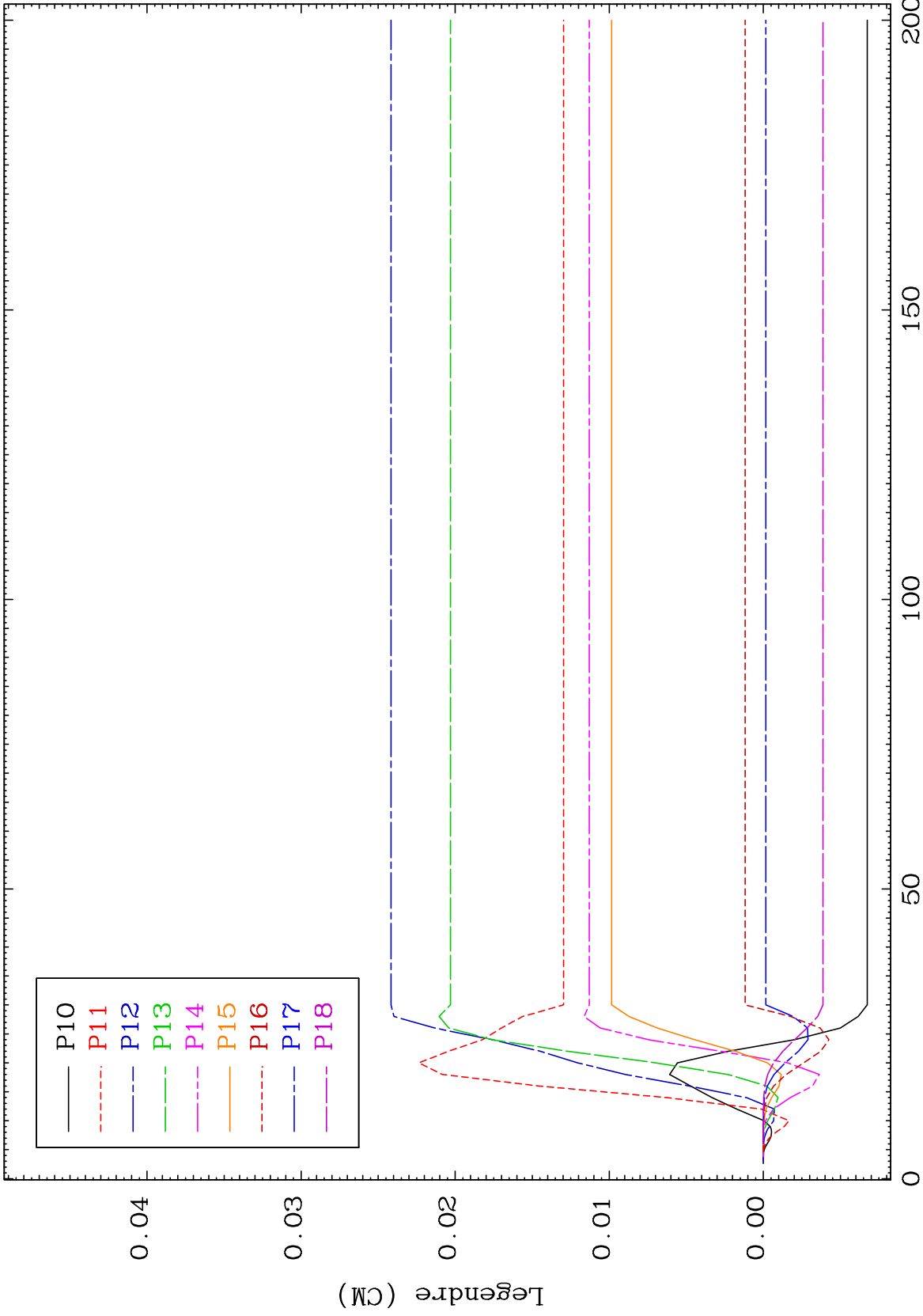
Incident Energy (MeV)

58-Ce-128

MAT 5801

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

58-Ce-128

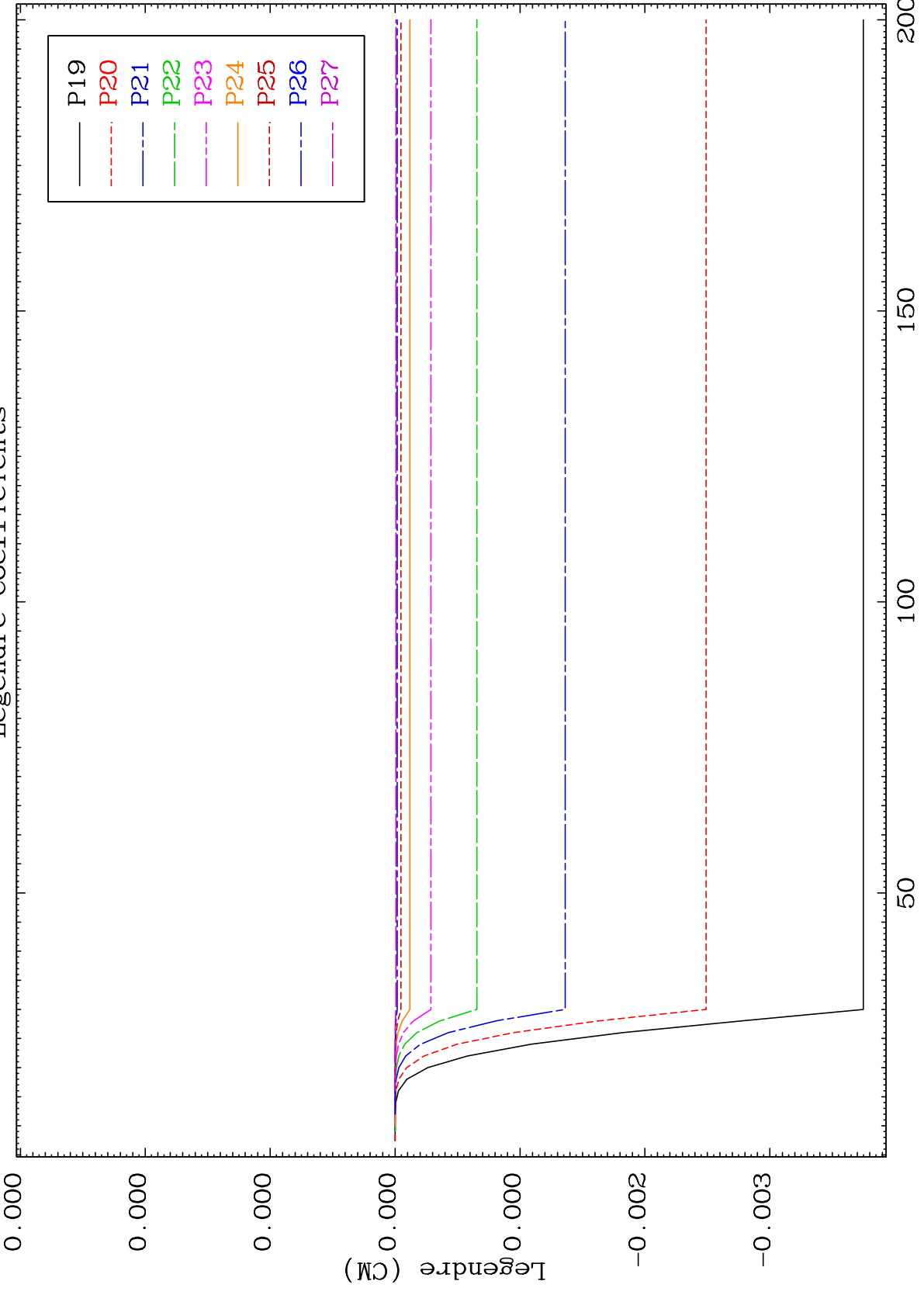


102

Incident Energy (MeV)

58-Ce-128

MAT 5801 MT= 73 (n,n') Level Legendre Coefficients 58-Ce-128



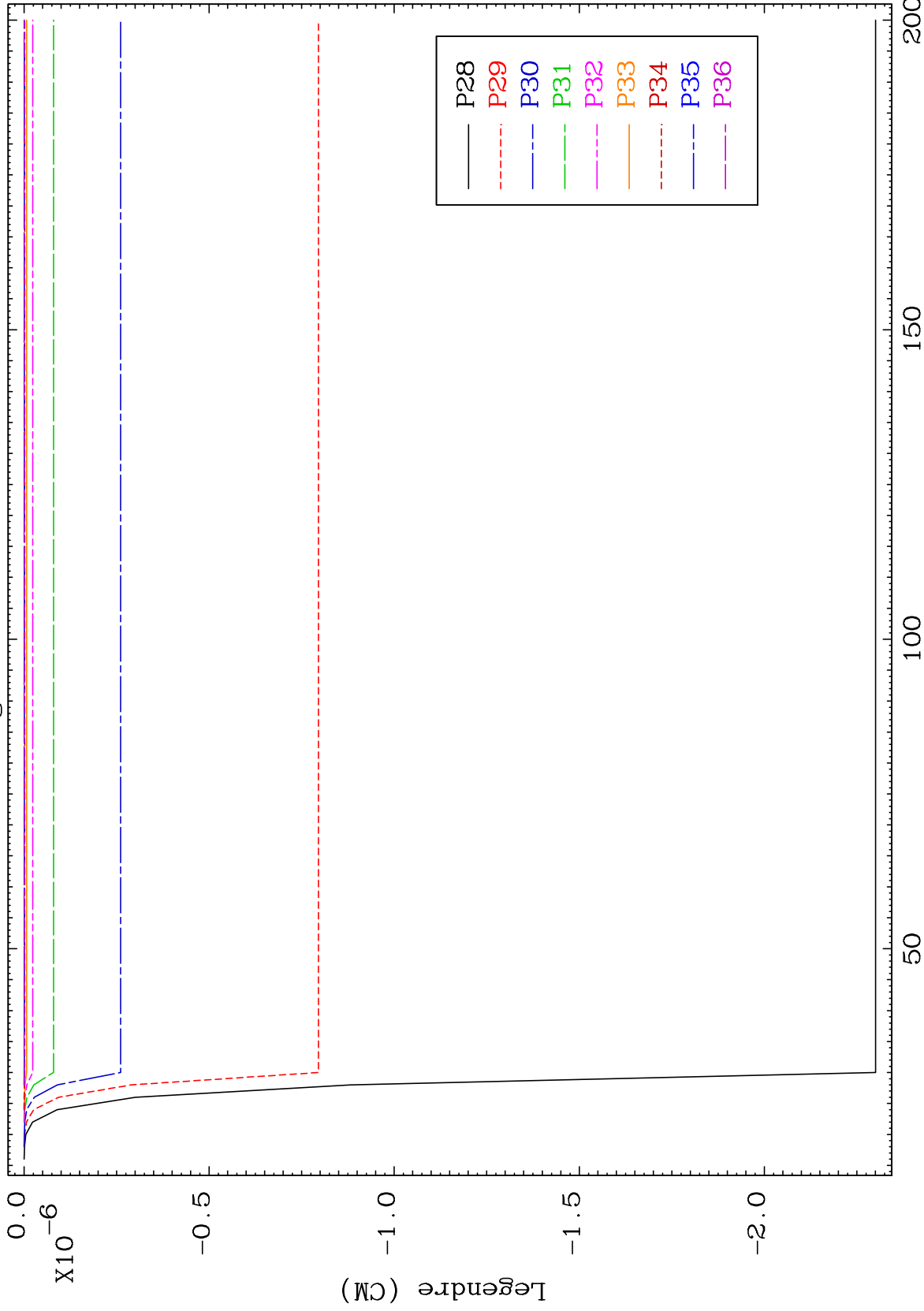
103 58-Ce-128



MAT 5801

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

58-Ce-128



104

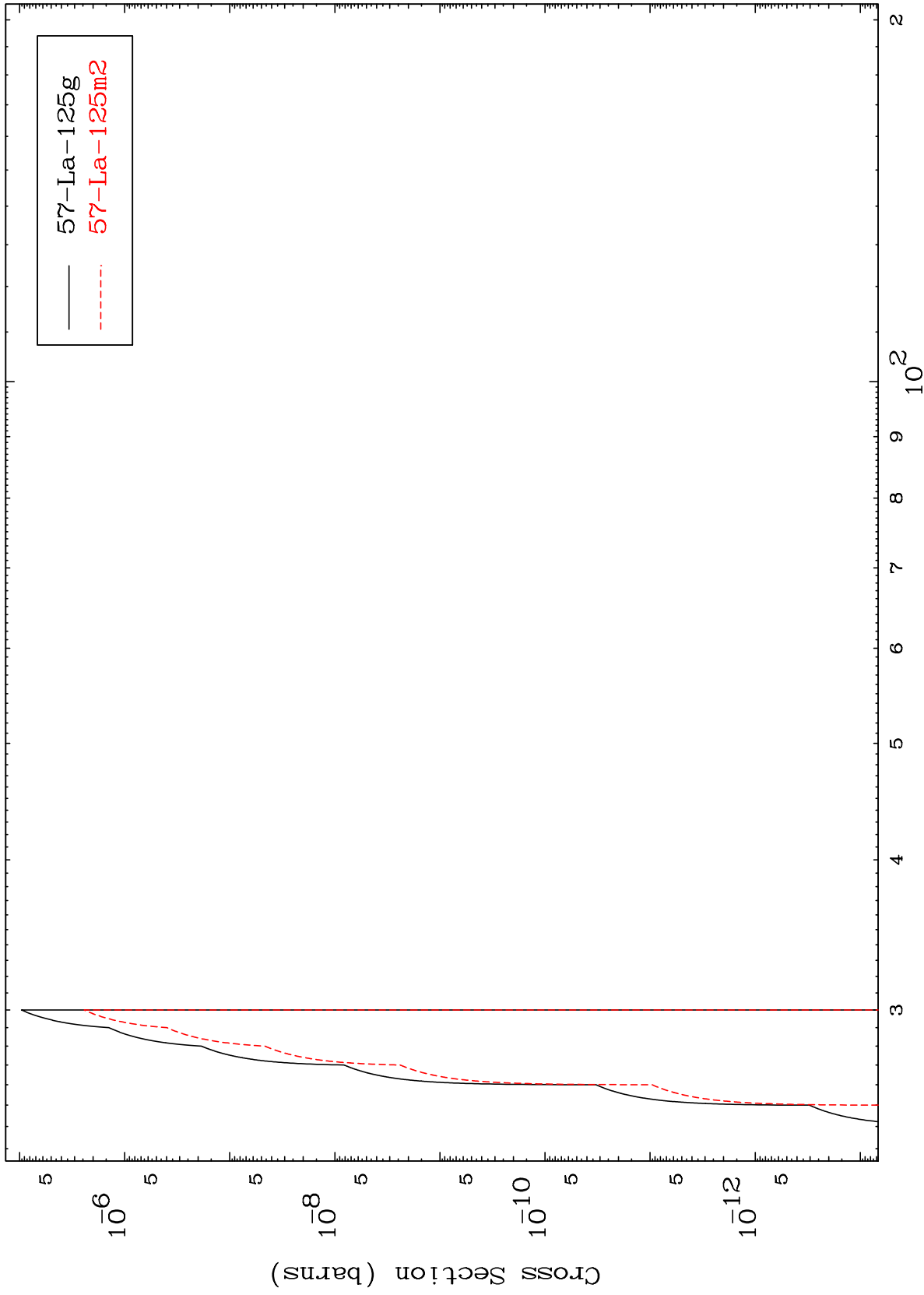
58-Ce-128

MAT 5801

(n,2n) d

58-Ce-128

Radionuclide Production Cross Section



105

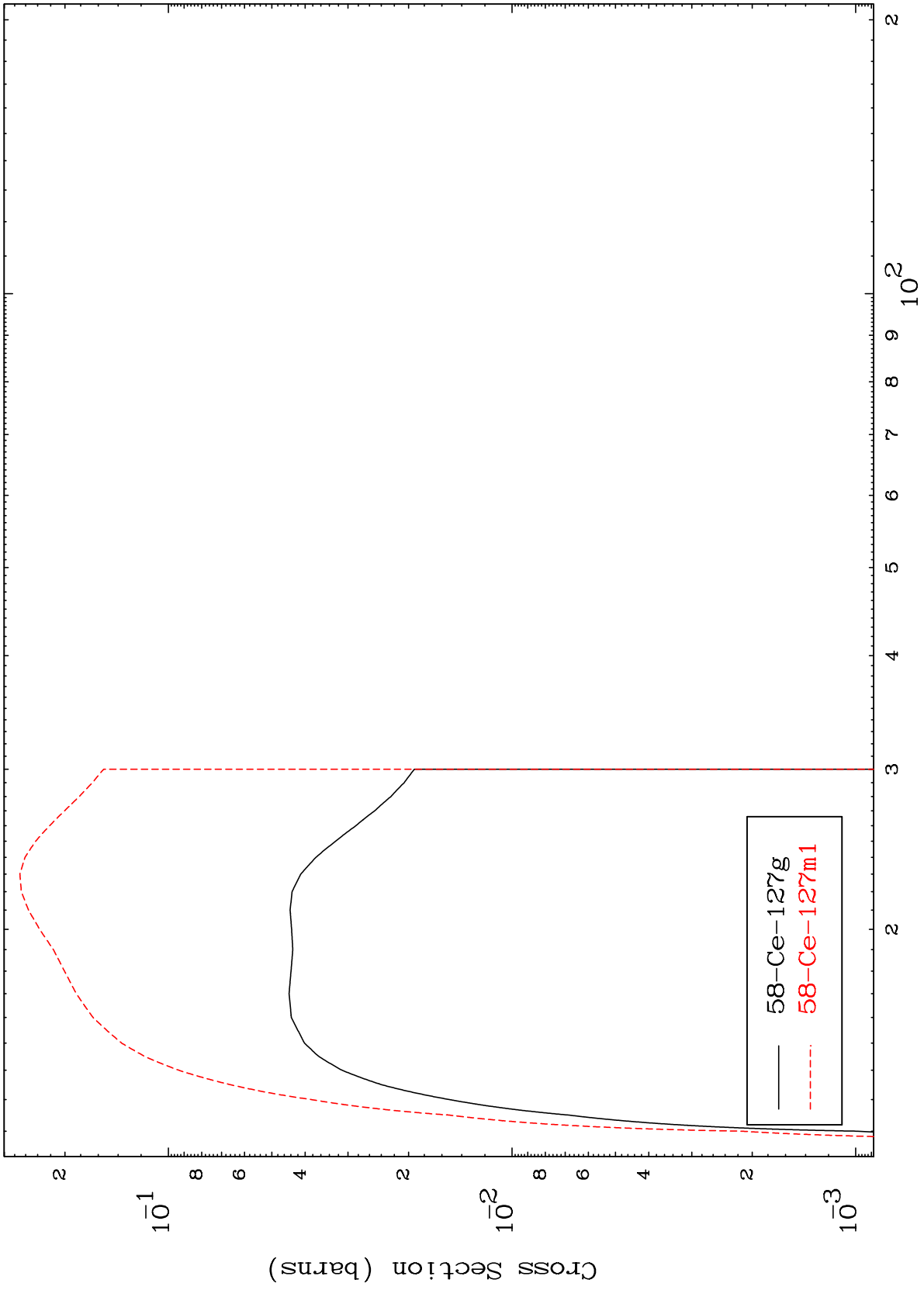
Incident Energy (MeV)

58-Ce-128

MAT 5801

58-Ce-128

(n,2n)  
Radionuclide Production Cross Section



106

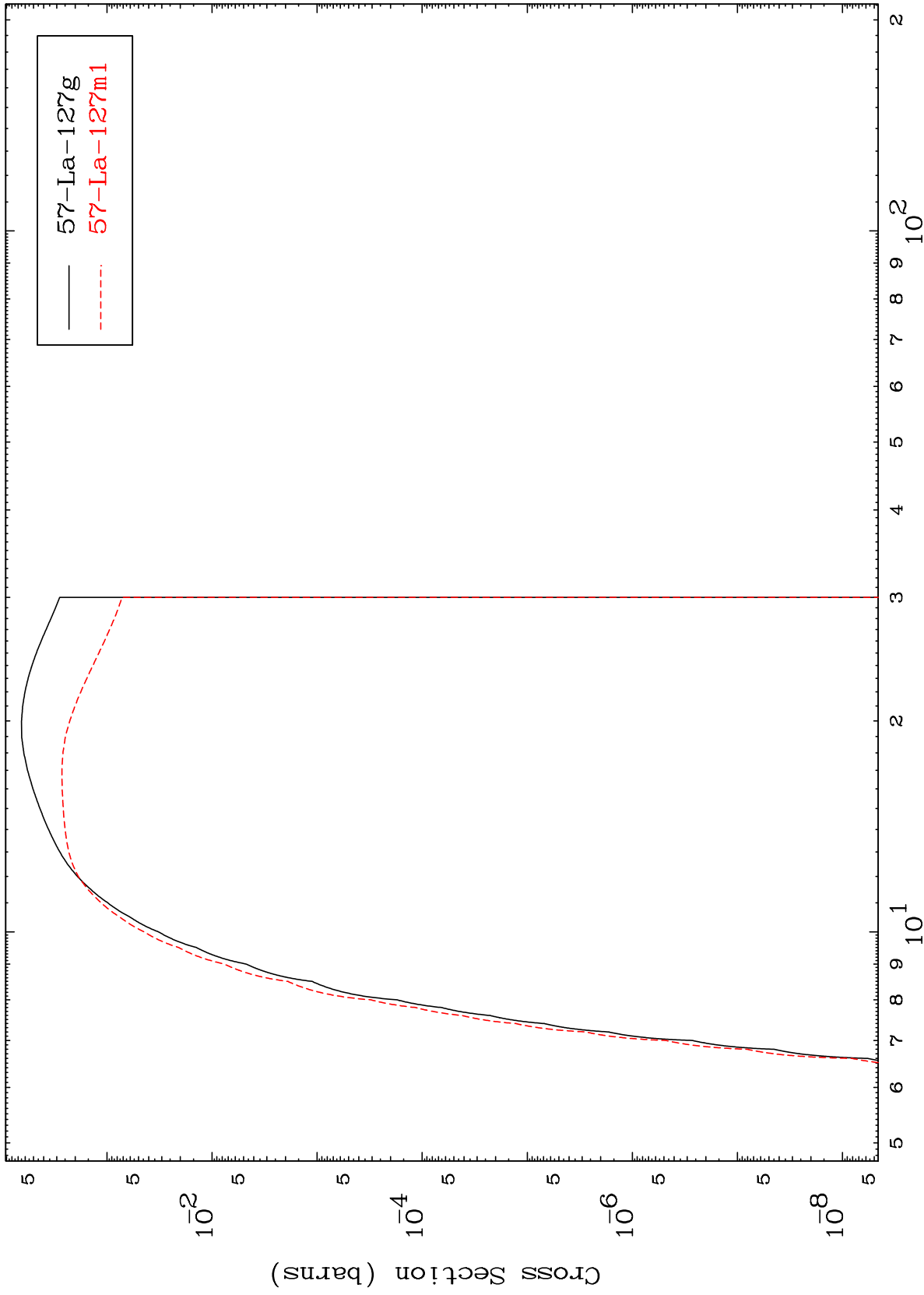
58-Ce-128

MAT 5801

(n,n') p

58-Ce-128

Radionuclide Production Cross Section



107

Incident Energy (MeV)

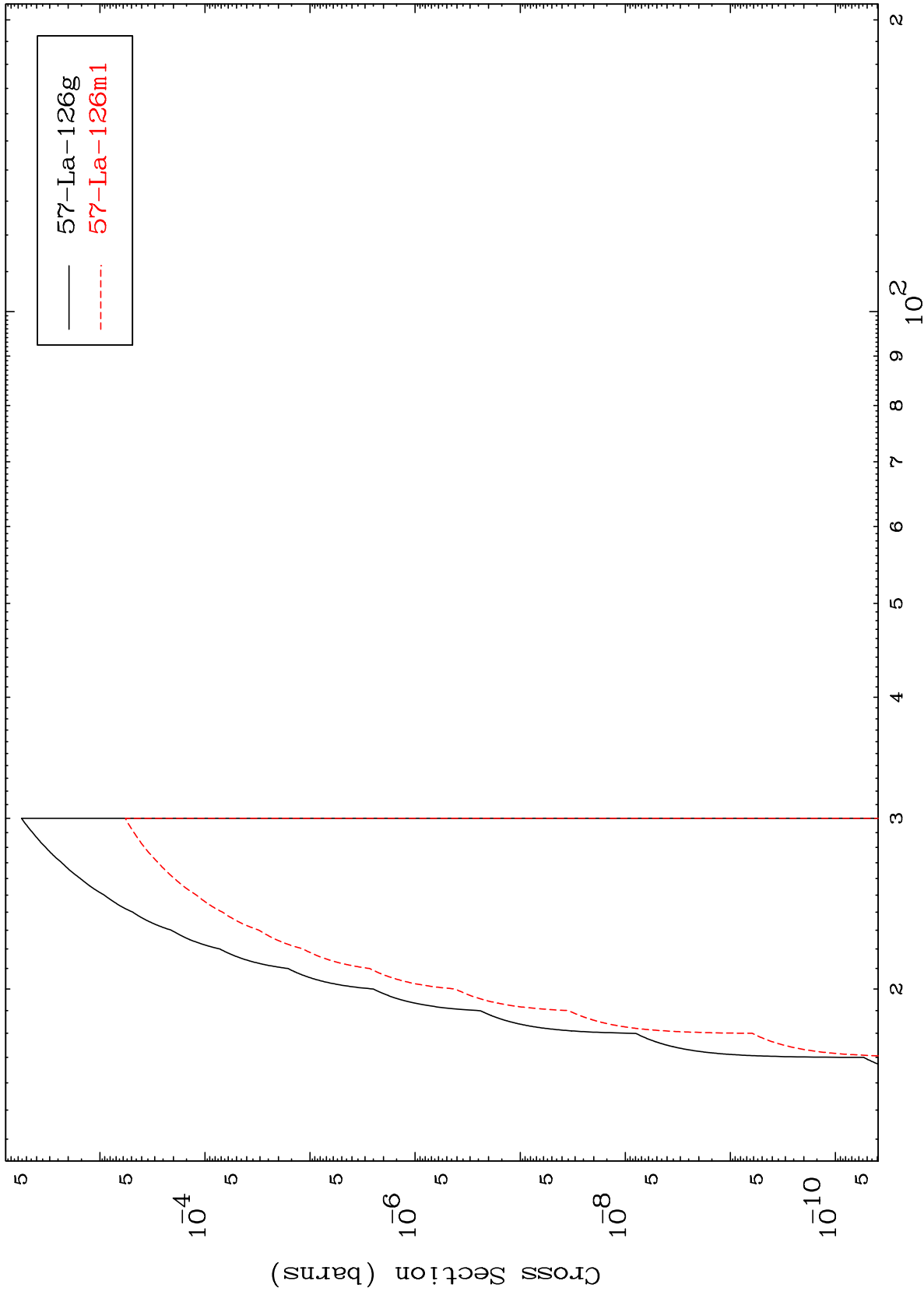
58-Ce-128

MAT 5801

(n,n') d

58-Ce-128

Radionuclide Production Cross Section



108

Incident Energy (MeV)

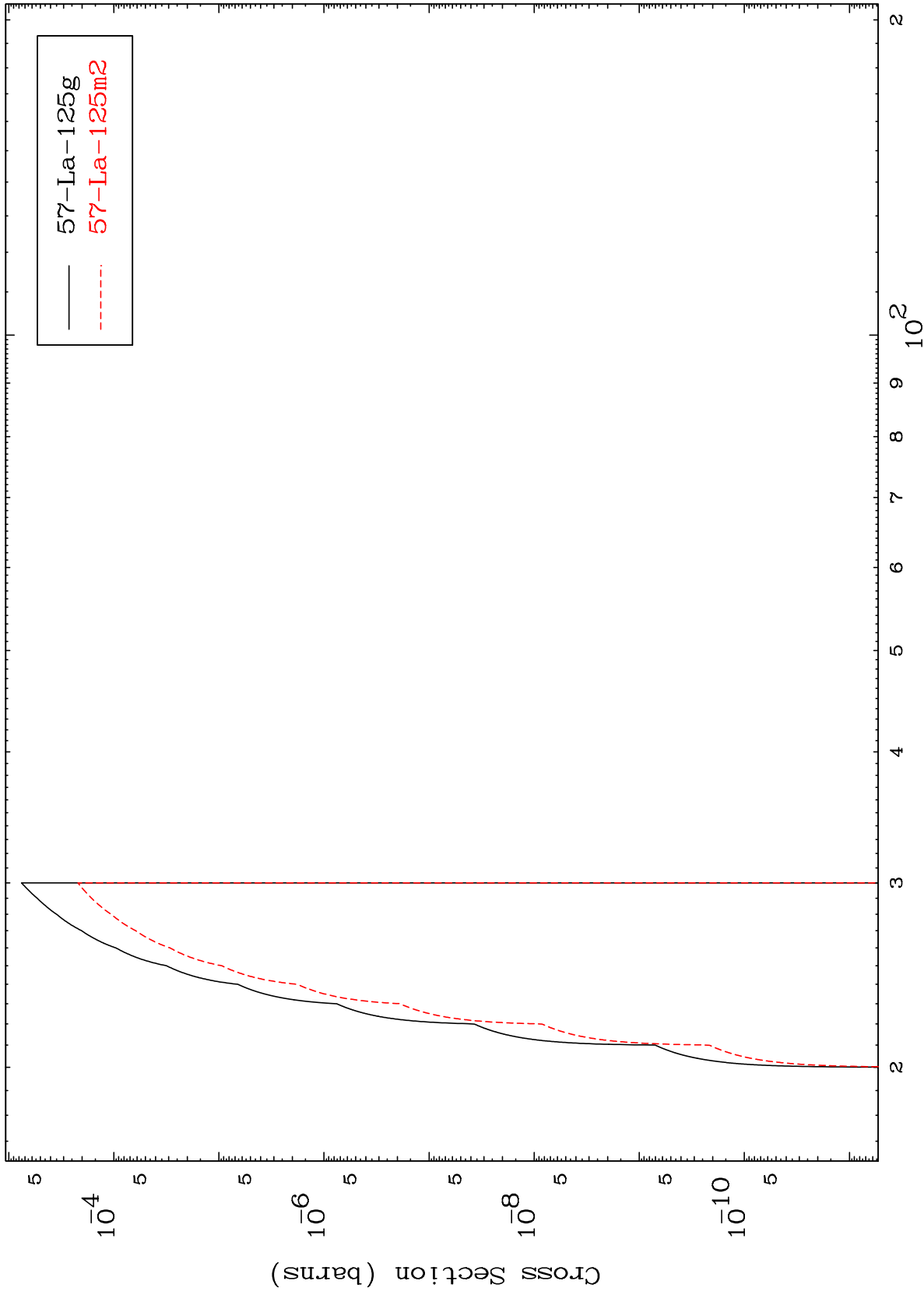
58-Ce-128

MAT 5801

(n,n') t

58-Ce-128

Radionuclide Production Cross Section



109

Incident Energy (MeV)

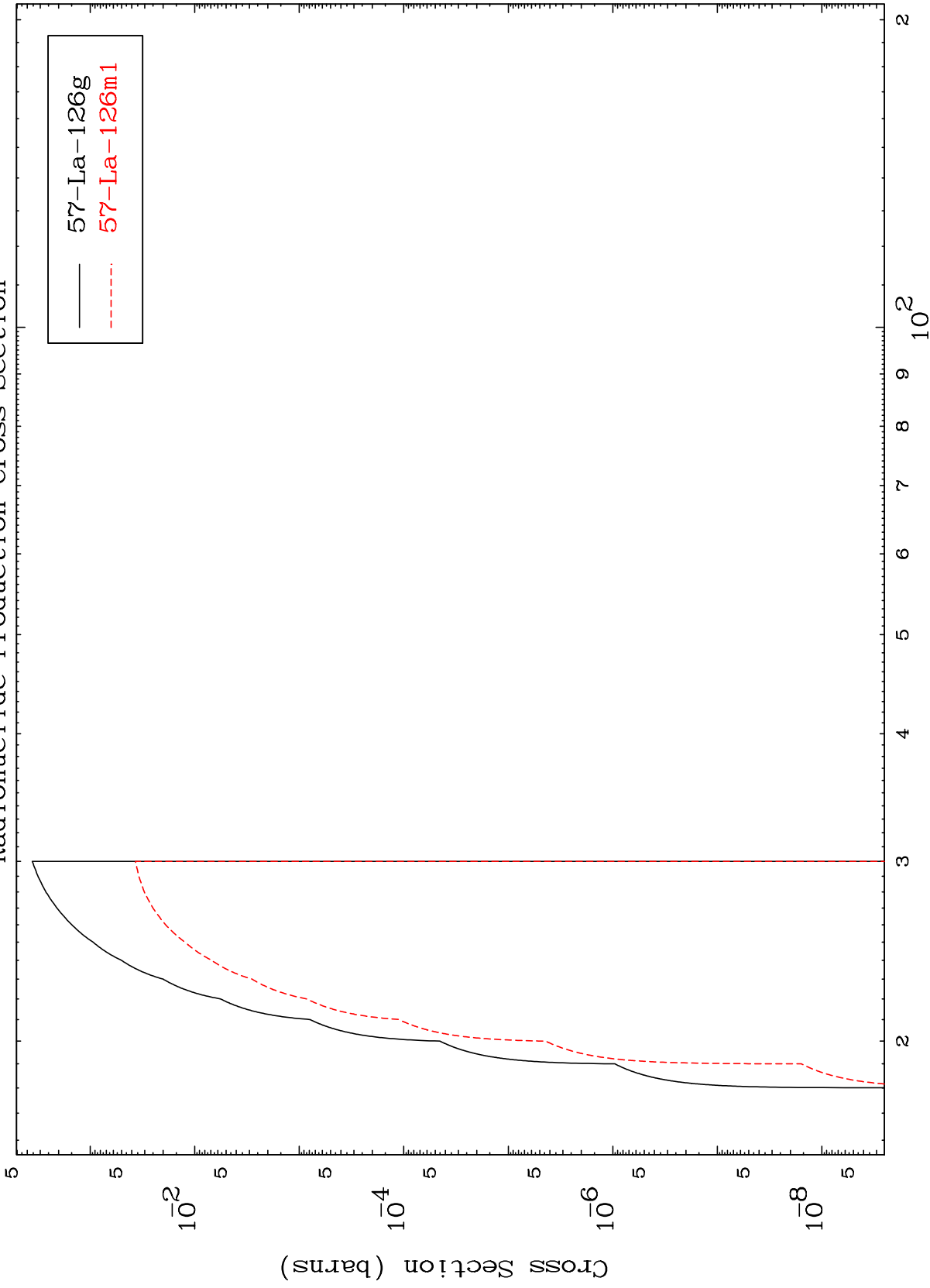
58-Ce-128

MAT 5801

(n,2n) p

58-Ce-128

Radionuclide Production Cross Section



110

Incident Energy (MeV)

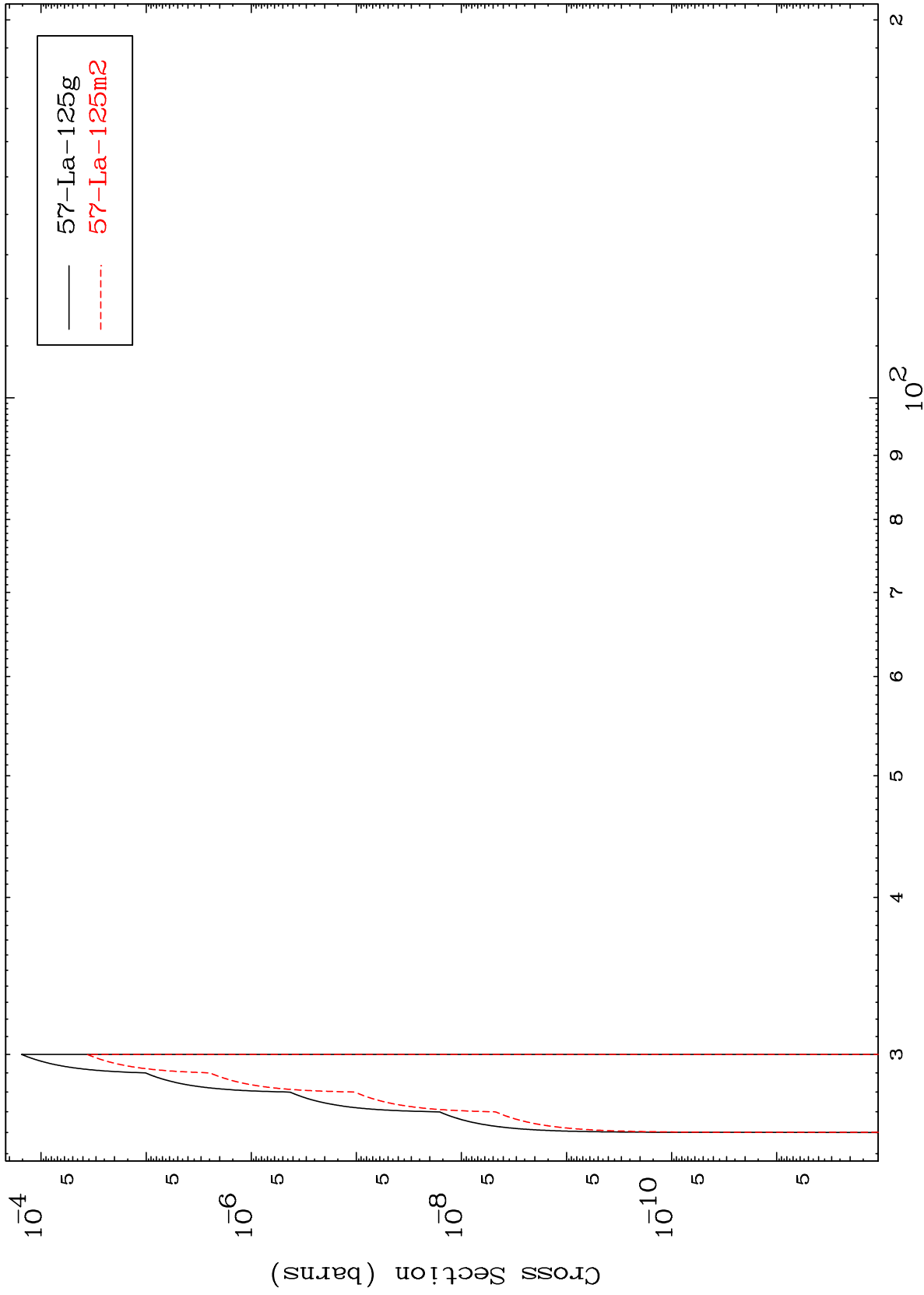
58-Ce-128

MAT 5801

(n,3n) p

58-Ce-128

Radionuclide Production Cross Section



111

Incident Energy (MeV)

58-Ce-128

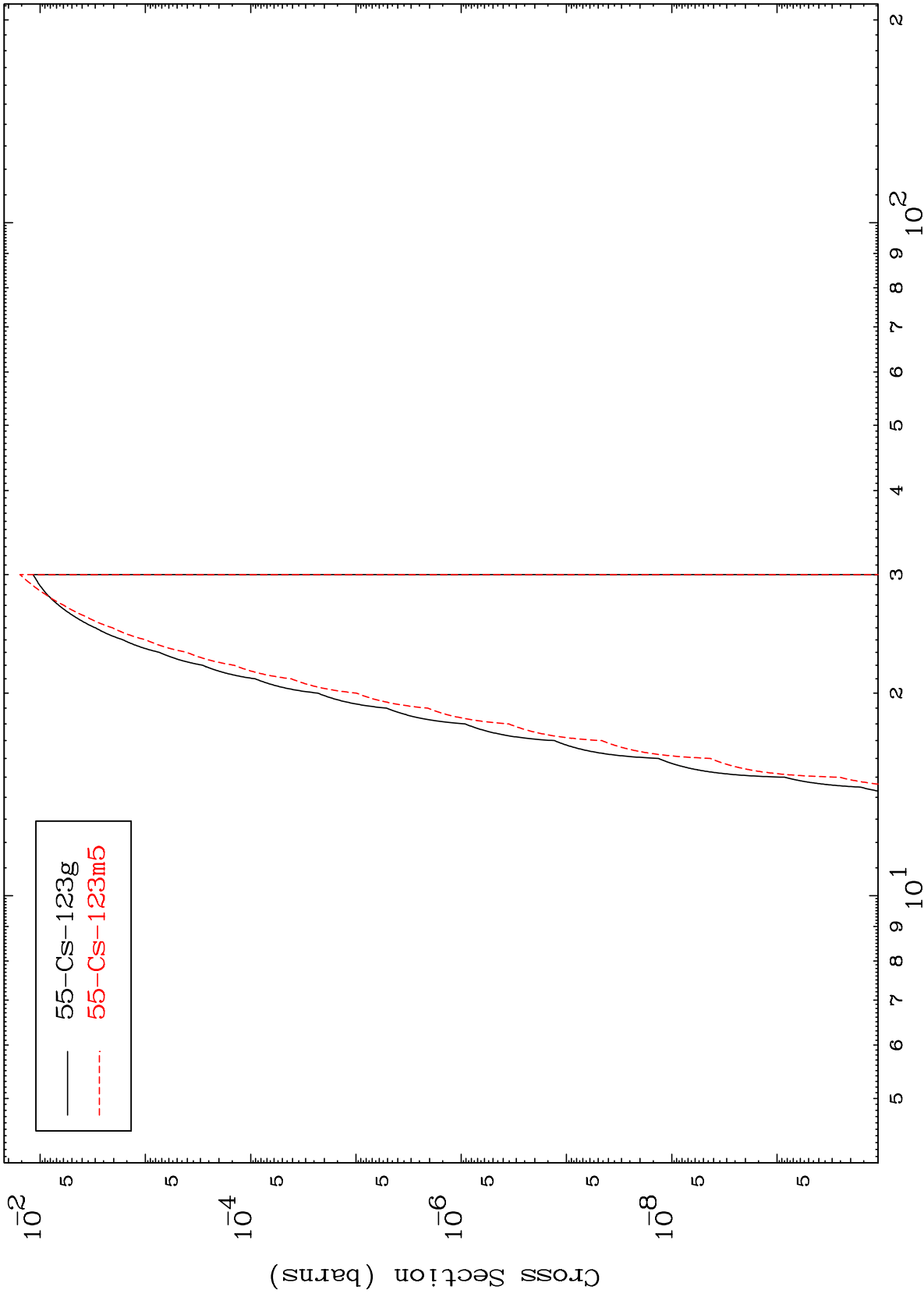


MAT 5801

(n,n') p  $\alpha$

58-Ce-128

Radionuclide Production Cross Section



112

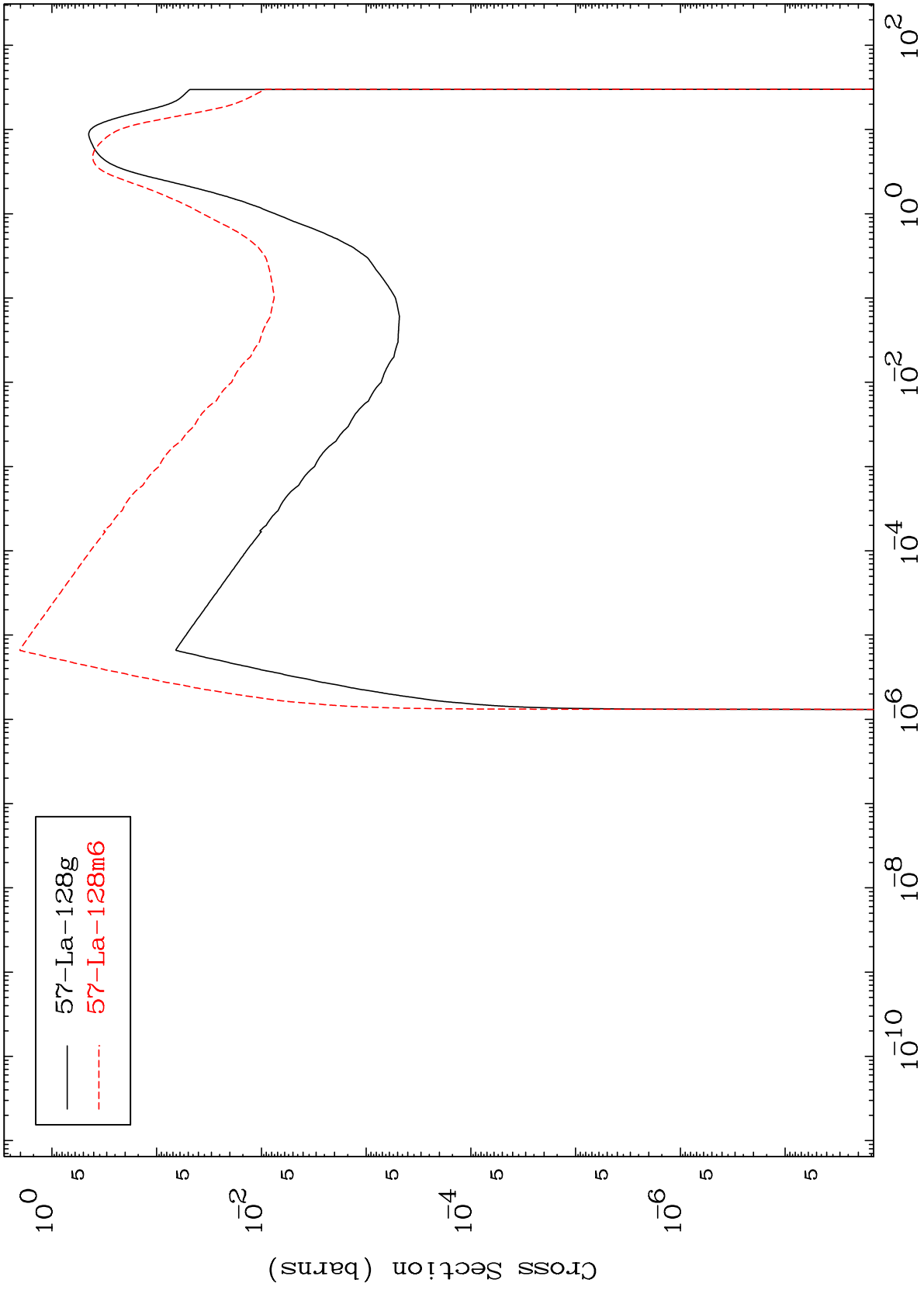
Incident Energy (MeV)

58-Ce-128

MAT 5801

Radionuclide Production Cross Section  
(n,p)

58-Ce-128



113

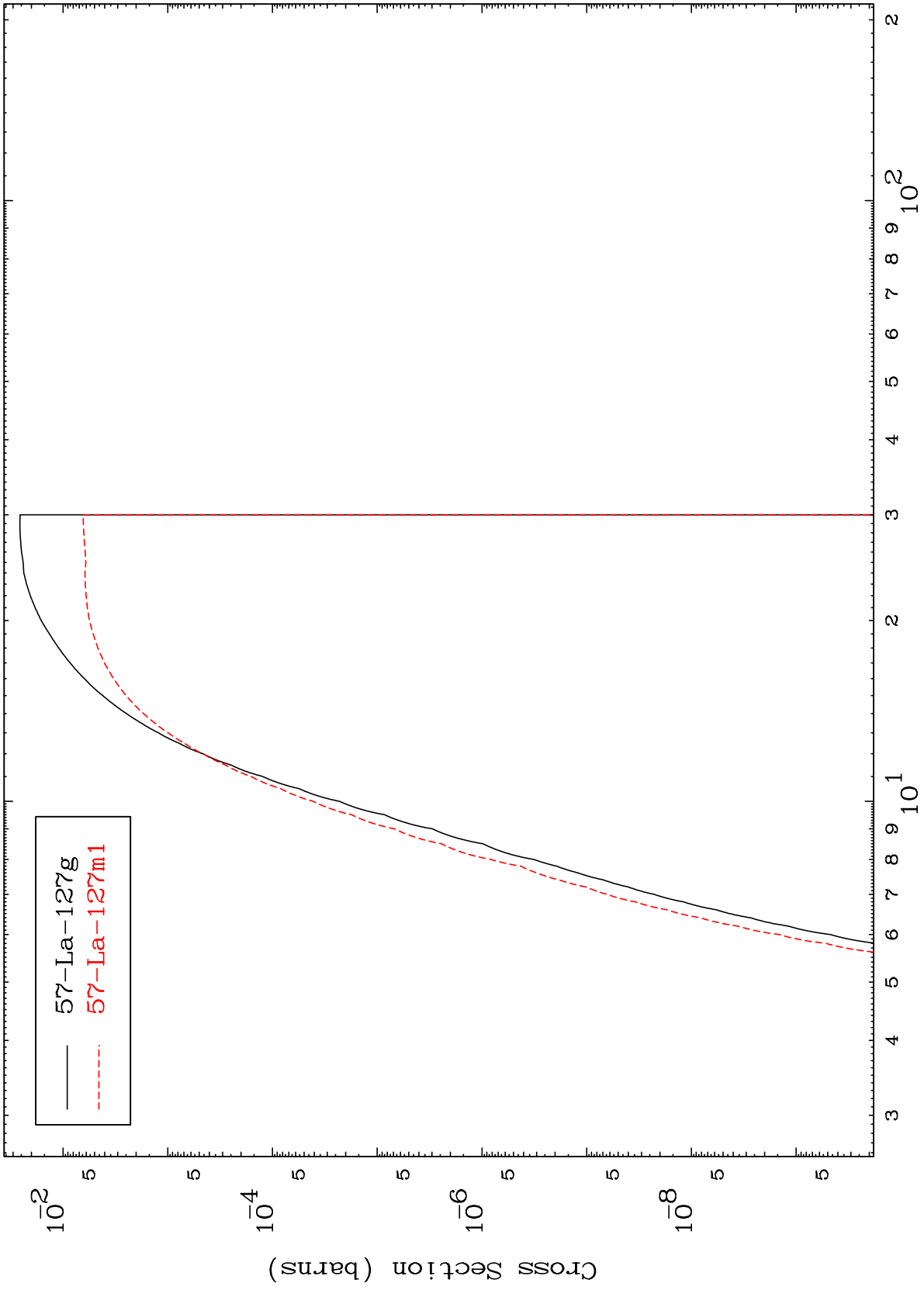
Incident Energy (MeV)

58-Ce-128

MAT 5801

58-Ce-128

(n,d)  
Radionuclide Production Cross Section



— 57-La-127g  
- - - 57-La-127m1

114

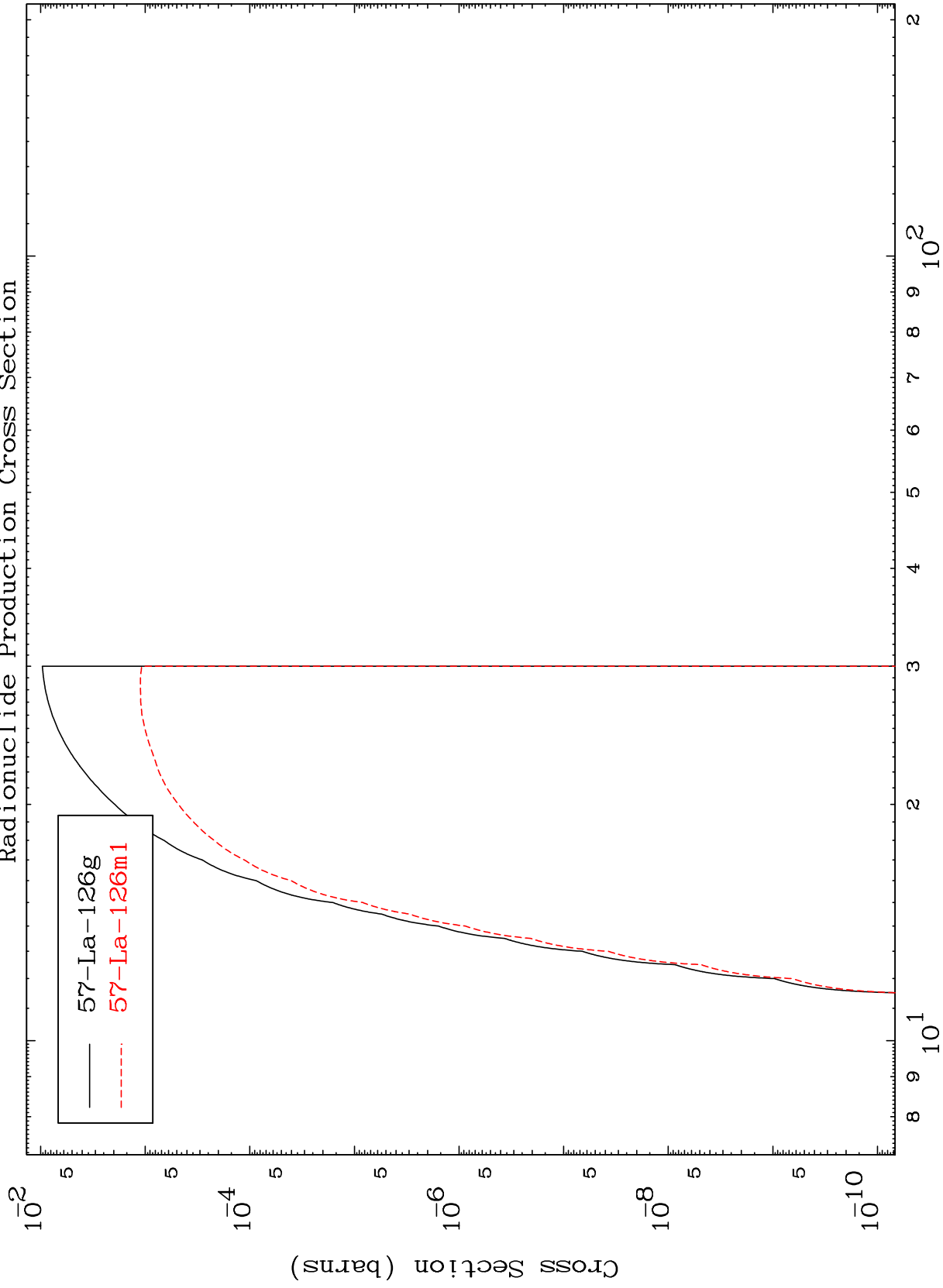
Incident Energy (MeV)

58-Ce-128

MAT 5801

58-Ce-128

(n, t)  
Radionuclide Production Cross Section



115

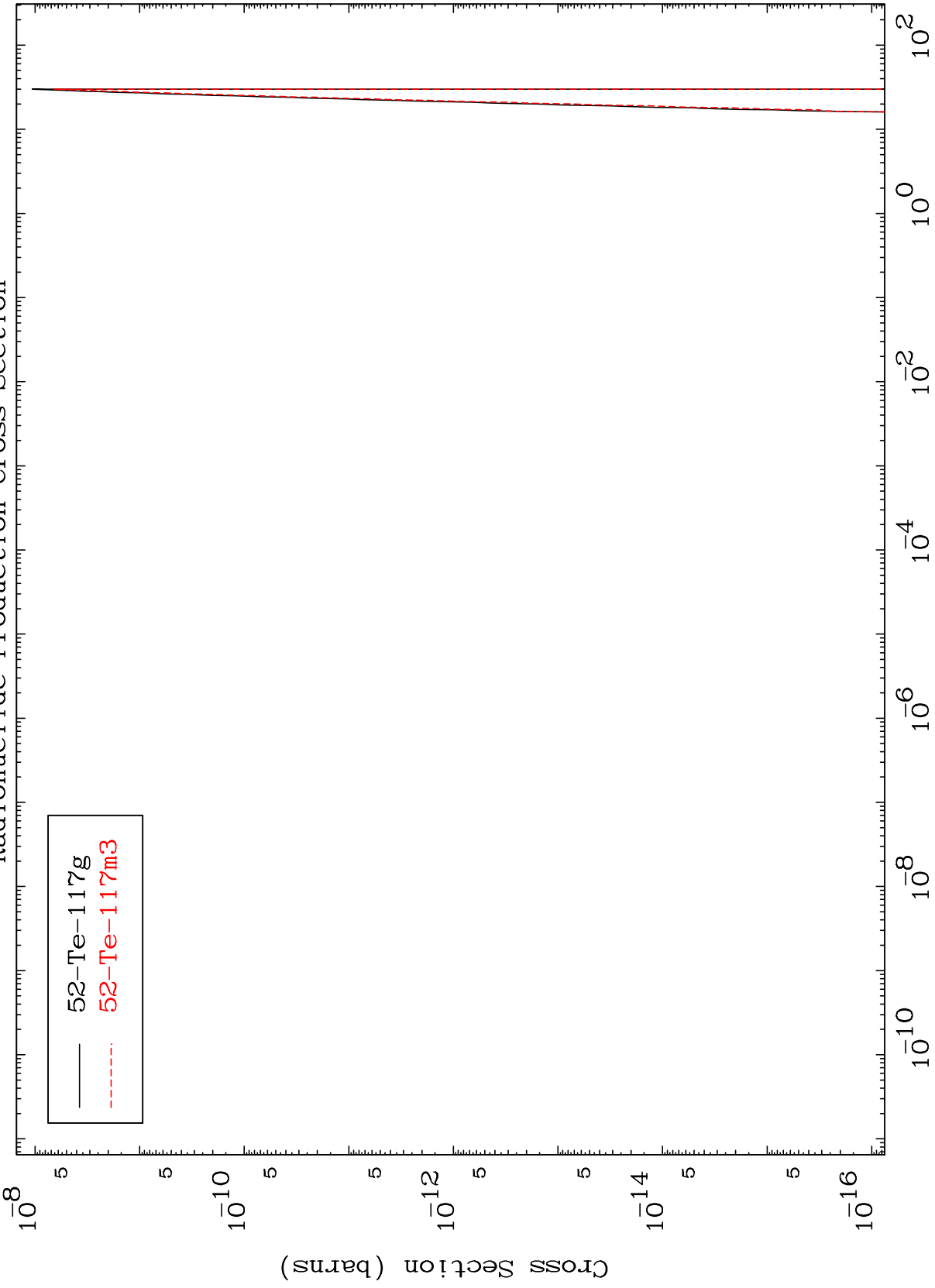
58-Ce-128

MAT 5801

(n,3α)

58-Ce-128

Radionuclide Production Cross Section



116

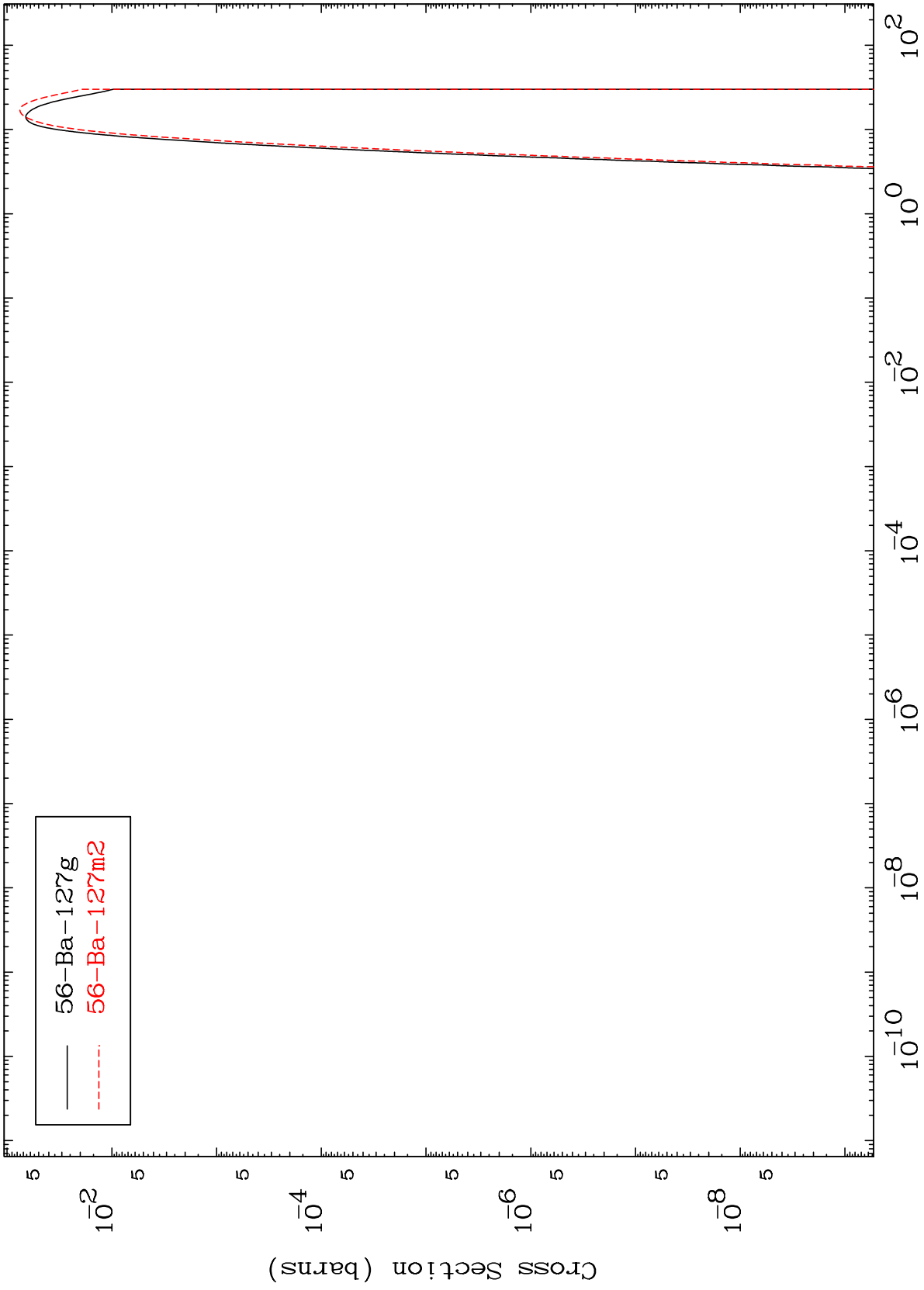
Incident Energy (MeV)

58-Ce-128

MAT 5801

(n,2p)  
Radionuclide Production Cross Section

58-Ce-128



117

Incident Energy (MeV)

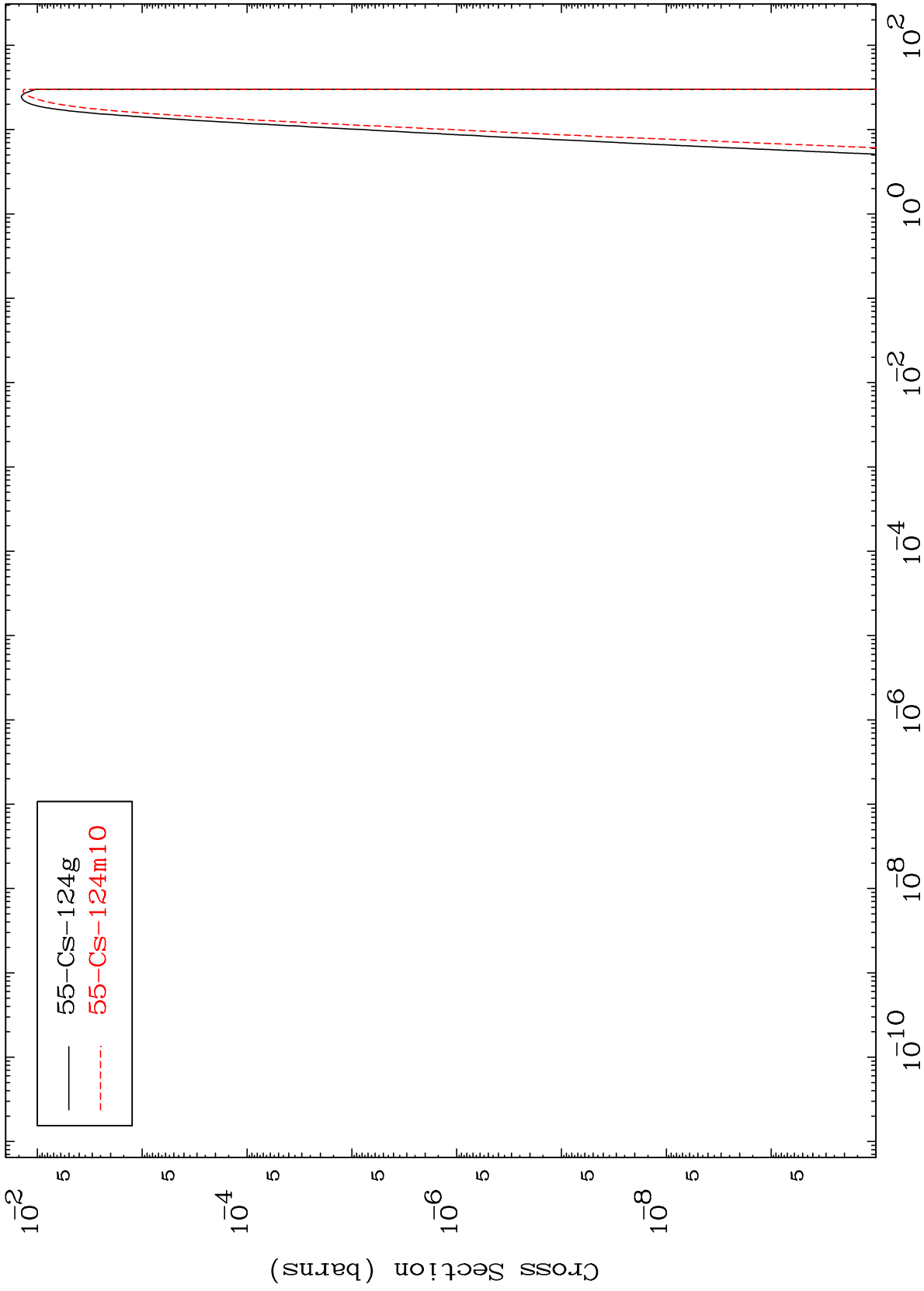
58-Ce-128

MAT 5801

(n,p)  $\alpha$

58-Ce-128

Radionuclide Production Cross Section



118

Incident Energy (MeV)

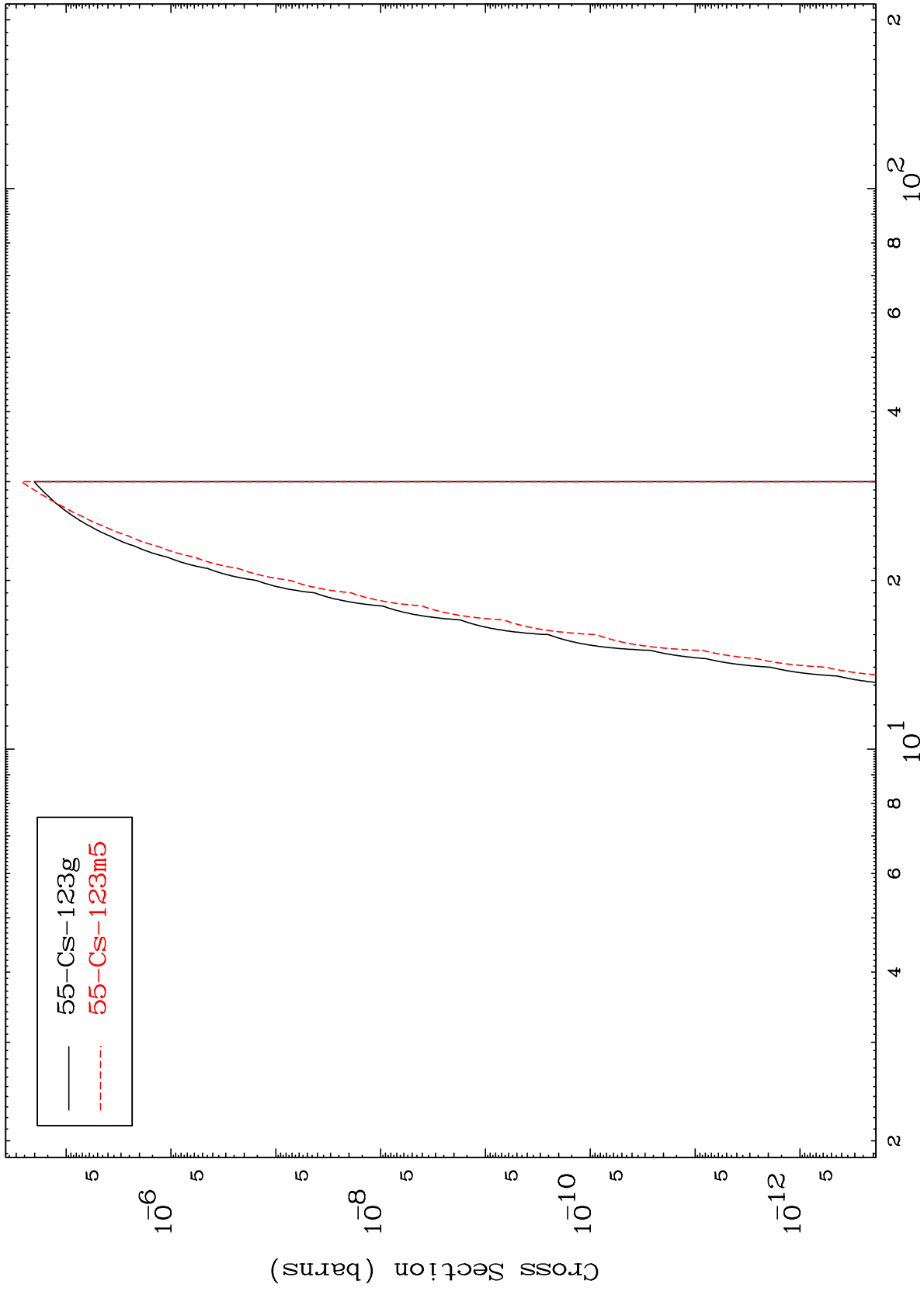
58-Ce-128

MAT 5801

(n,d)  $\alpha$

58-Ce-128

Radionuclide Production Cross Section



119

Incident Energy (MeV)

58-Ce-128