

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

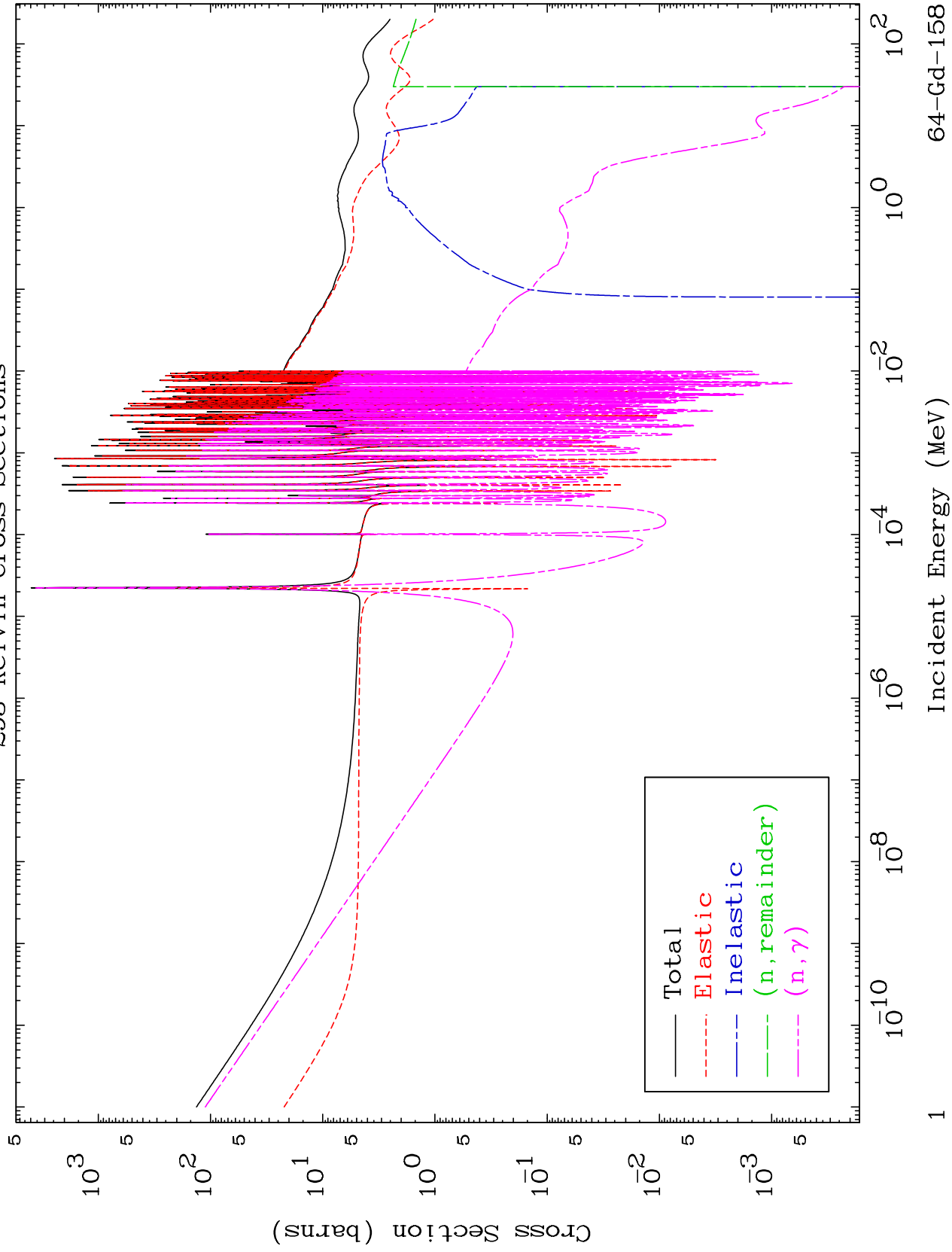
Press Mouse Button to Start

MAT 6443

Major

293 Kelvin Cross Sections

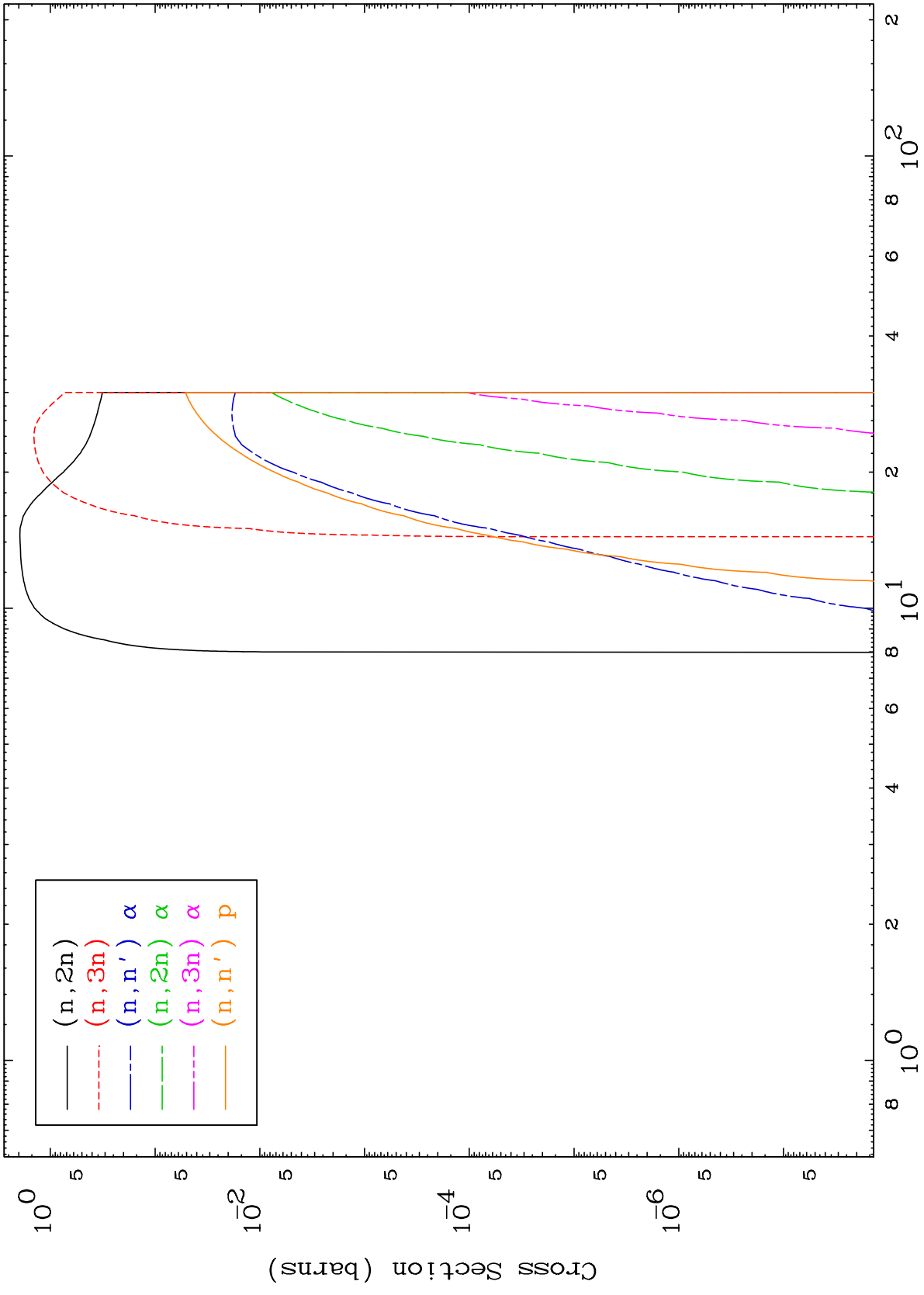
64-Gd-158



MAT 6443

Neutron Production
293 Kelvin Cross Sections

64-Gd-158



2

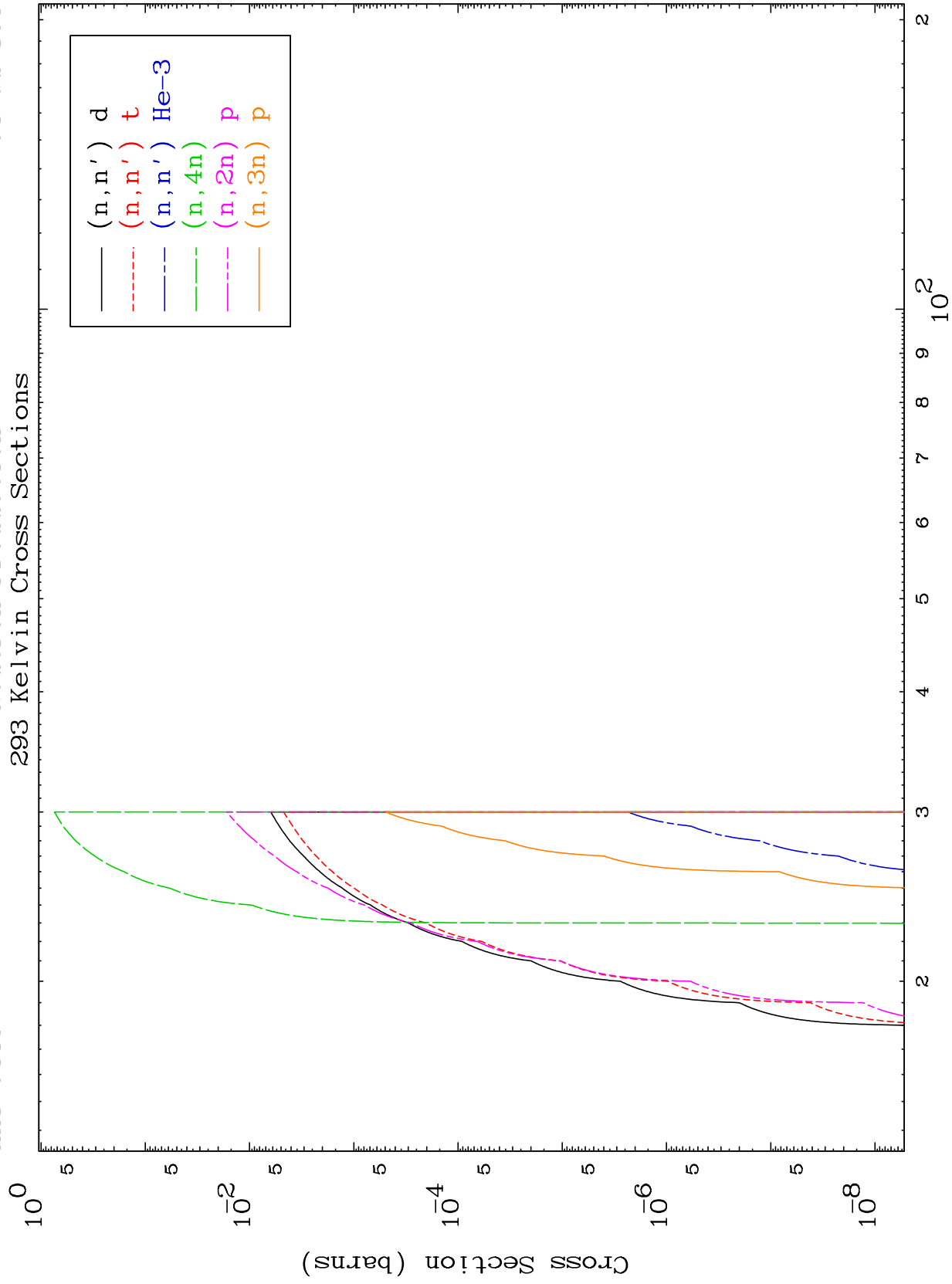
Incident Energy (MeV)

64-Gd-158

MAT 6443

Neutron Production
293 Kelvin Cross Sections

64-Gd-158



3

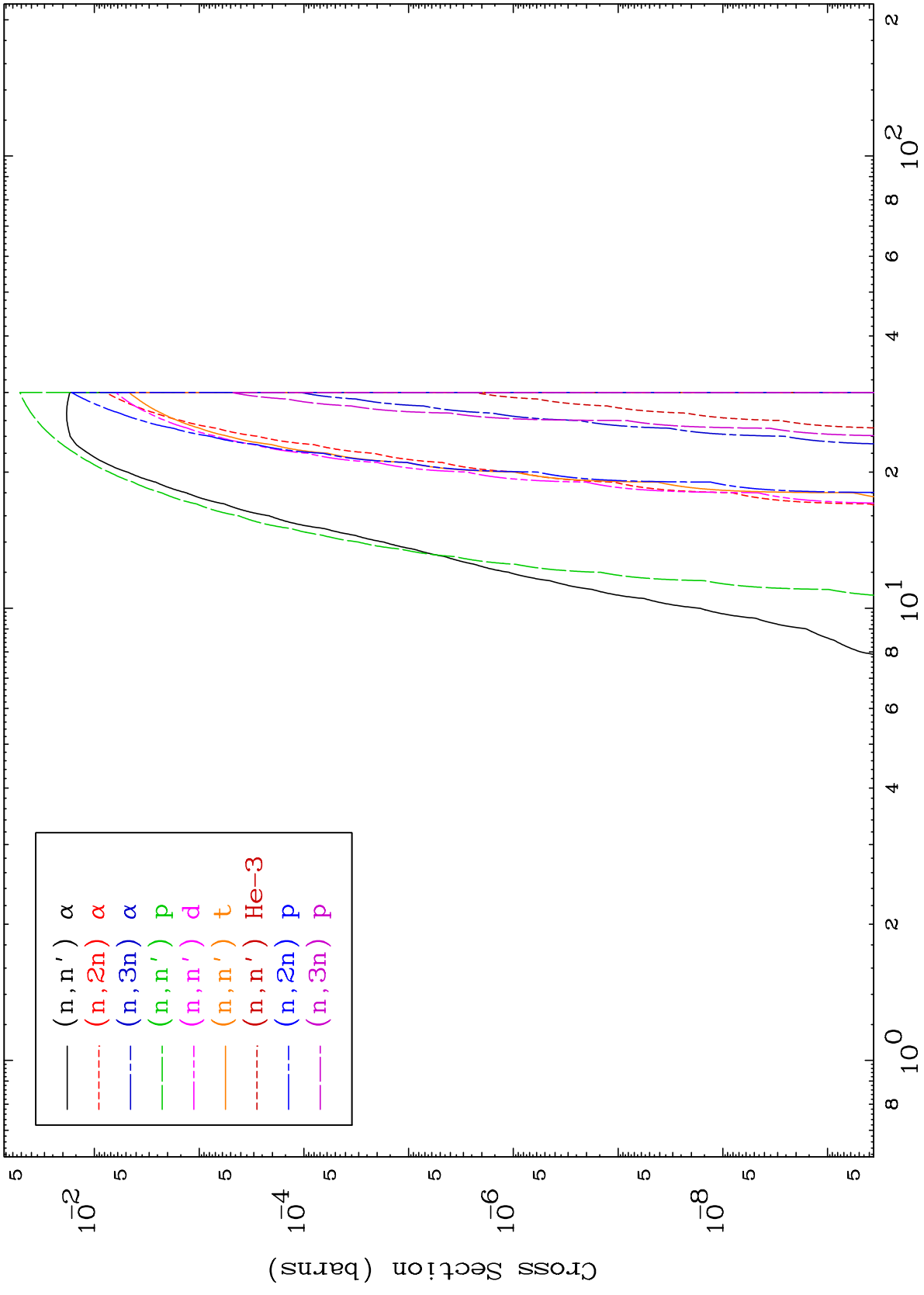
Incident Energy (MeV)

64-Gd-158

MAT 6443

293 Kelvin Cross Sections

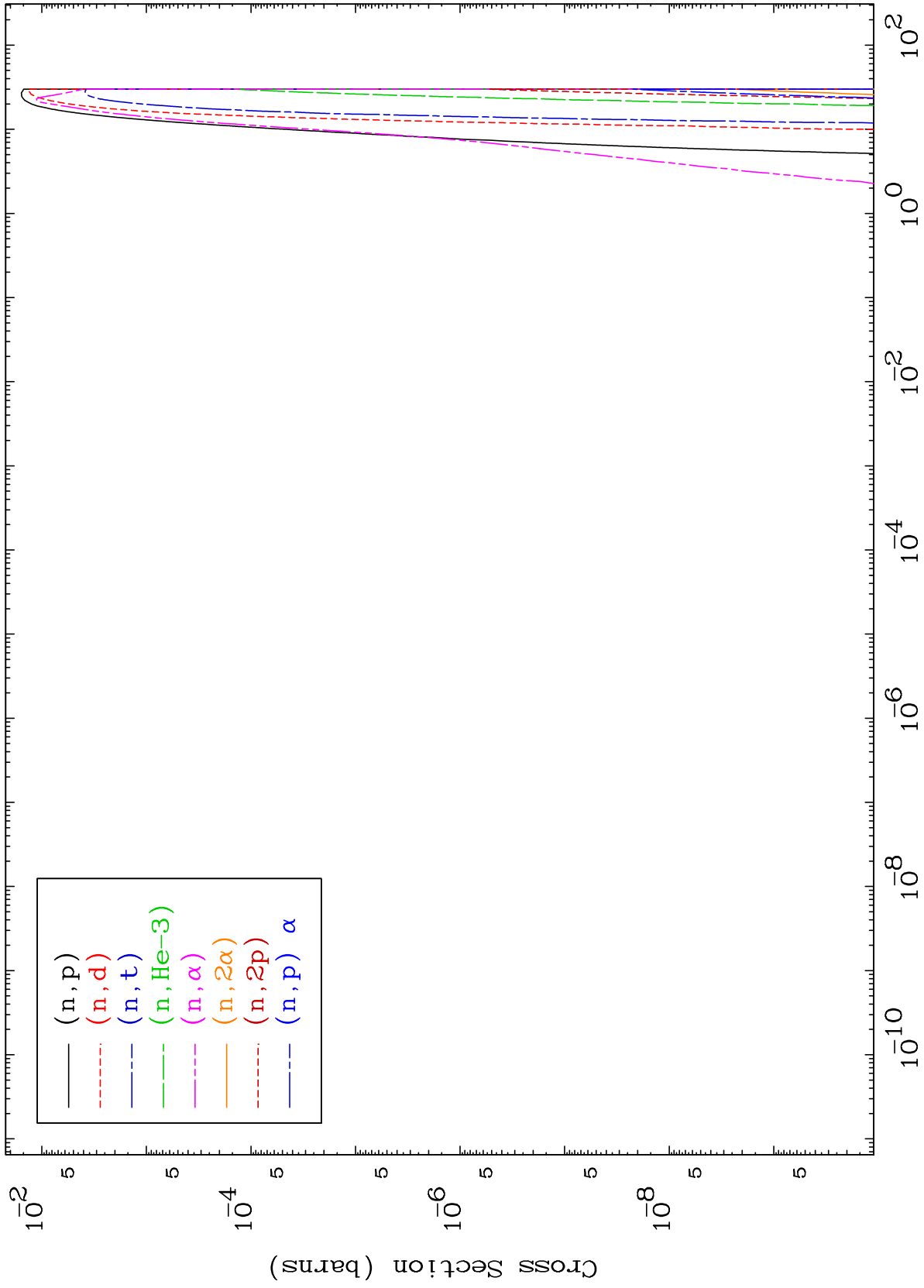
64-Gd-158



MAT 6443

293 Kelvin Cross Sections

64-Gd-158



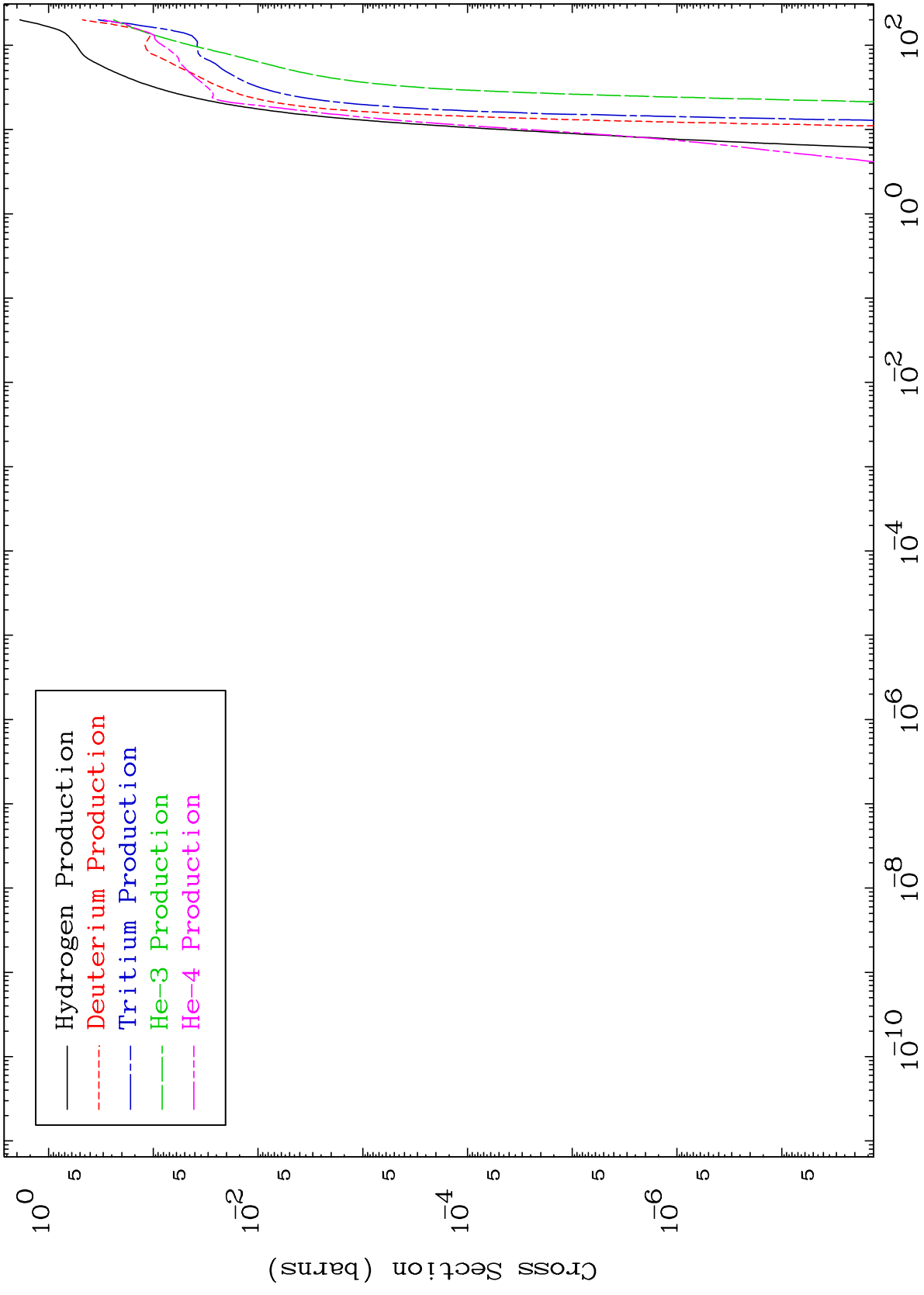
5

64-Gd-158

MAT 6443

Particle Production
293 Kelvin Cross Sections

64-Gd-158

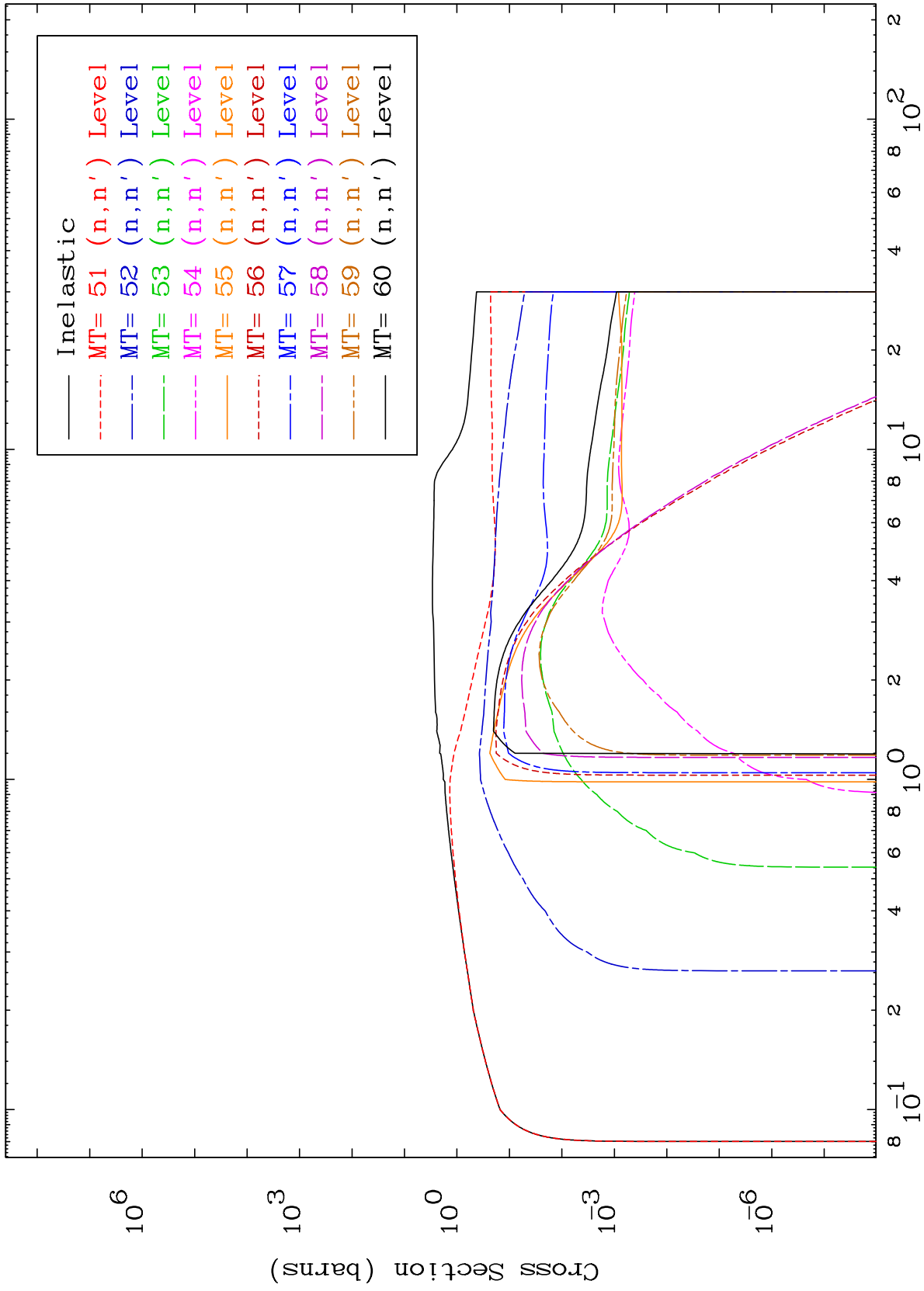


MAT 6443

(n,n') Level

64-Gd-158

293 Kelvin Cross Sections



7

Incident Energy (MeV)

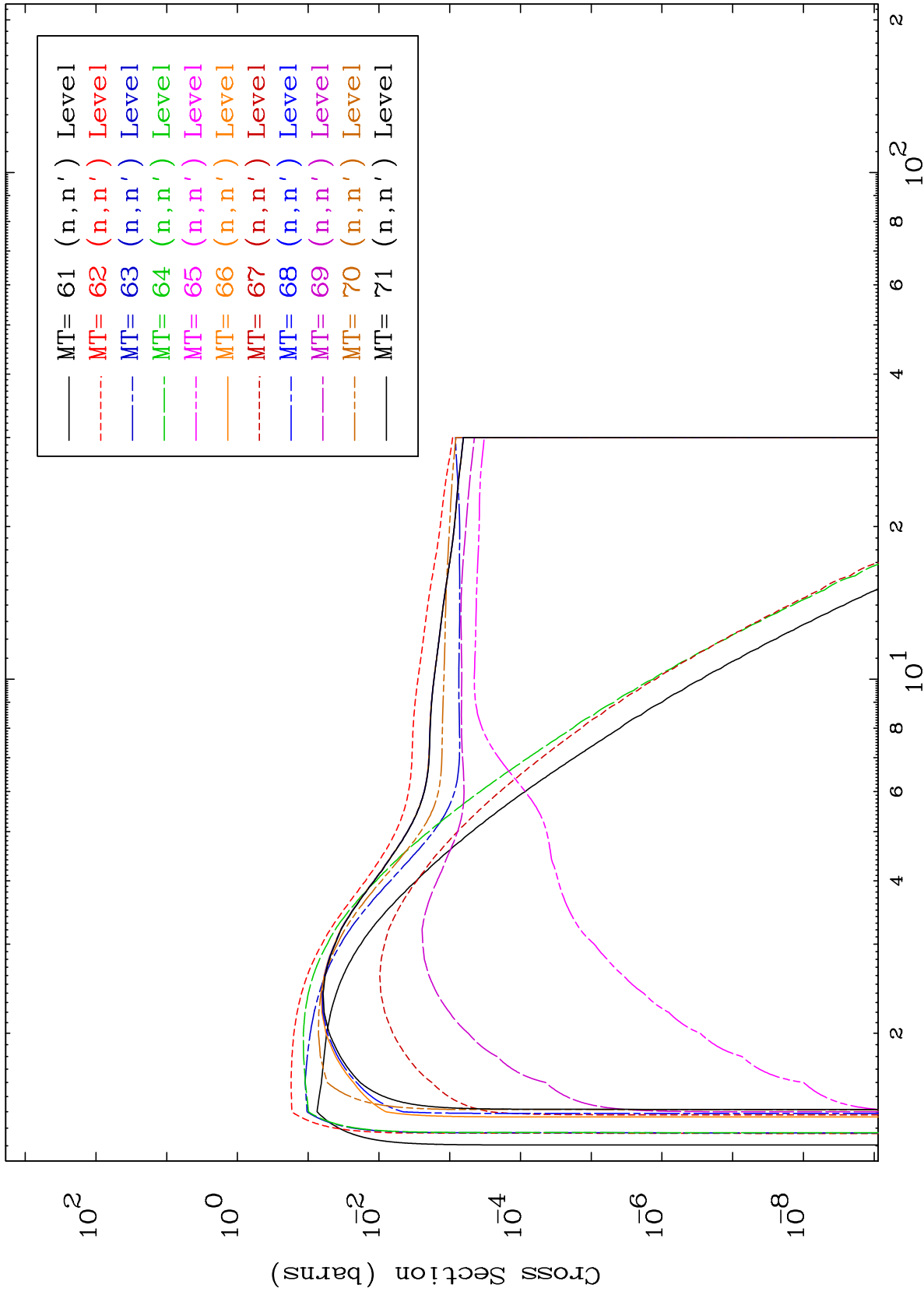
64-Gd-158

MAT 6443

(n,n') Level

64-Gd-158

293 Kelvin Cross Sections



8

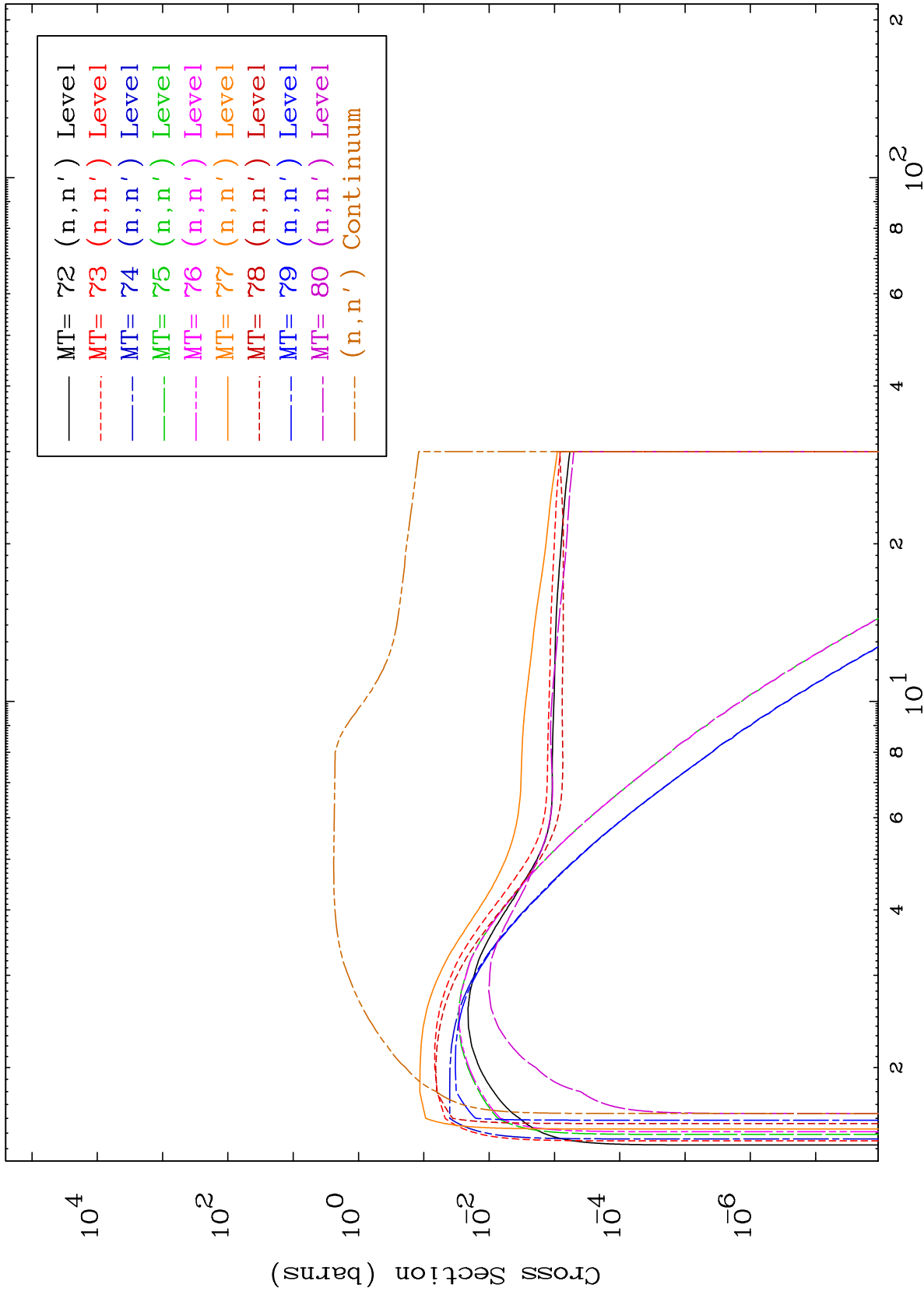
Incident Energy (MeV)

64-Gd-158

MAT 6443

(n,n') Level
293 Kelvin Cross Sections

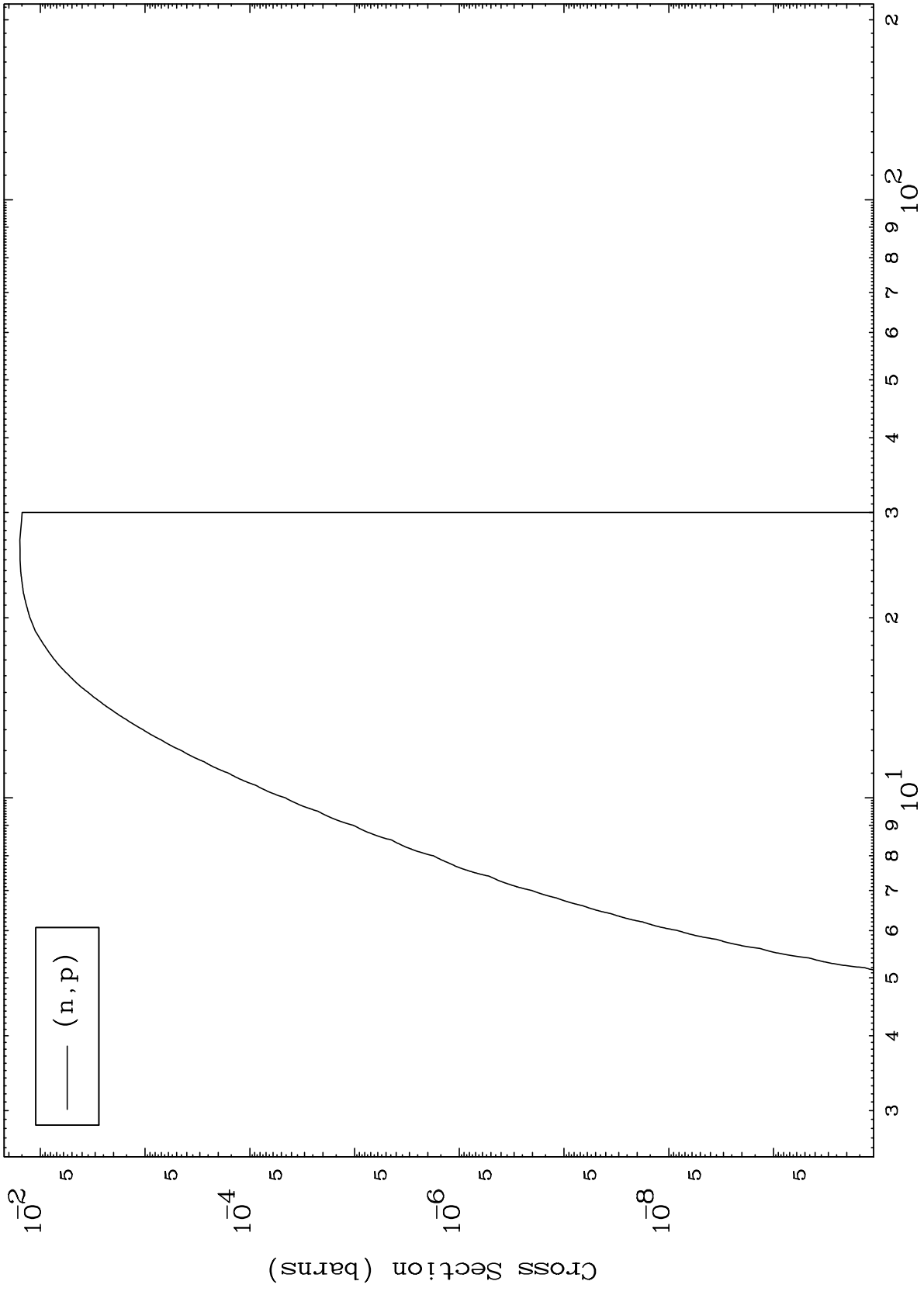
64-Gd-158



MAT 6443

(n,p) Levels
293 Kelvin Cross Sections

64-Gd-158



10

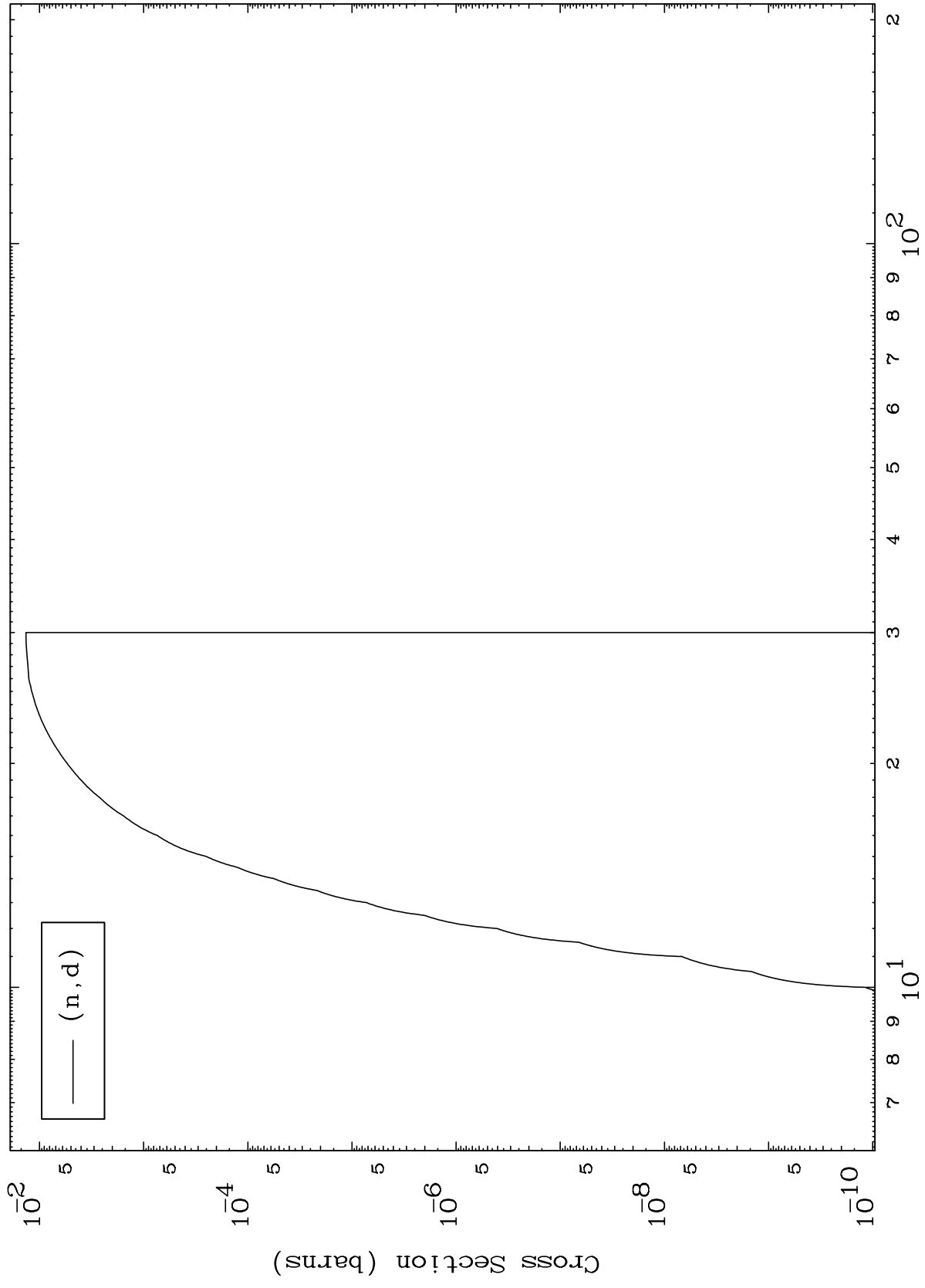
Incident Energy (MeV)

64-Gd-158

MAT 6443

(n,d) Levels
293 Kelvin Cross Sections

64-Gd-158



11

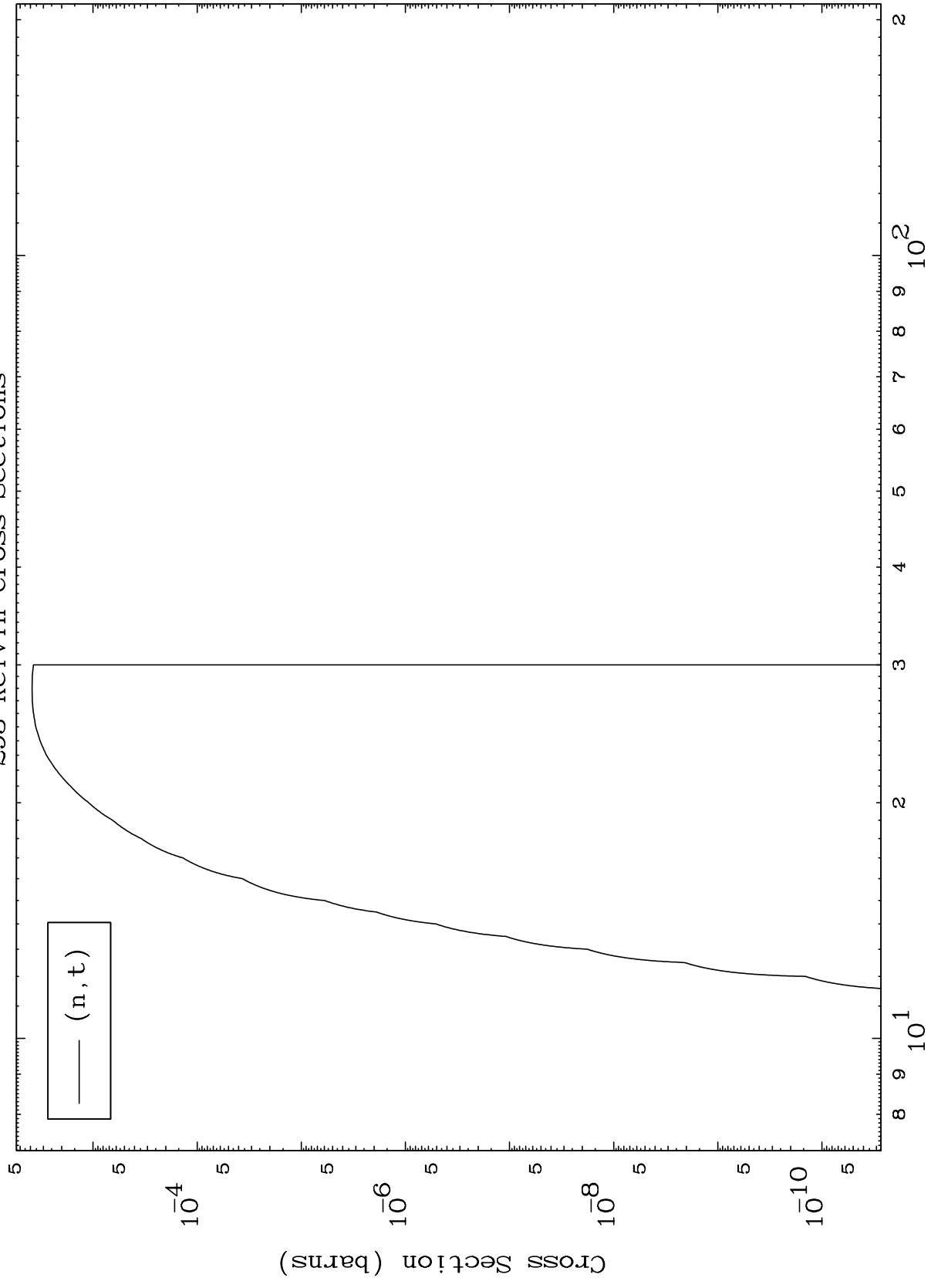
Incident Energy (MeV)

64-Gd-158

MAT 6443

(n,t) Levels
293 Kelvin Cross Sections

64-Gd-158



12

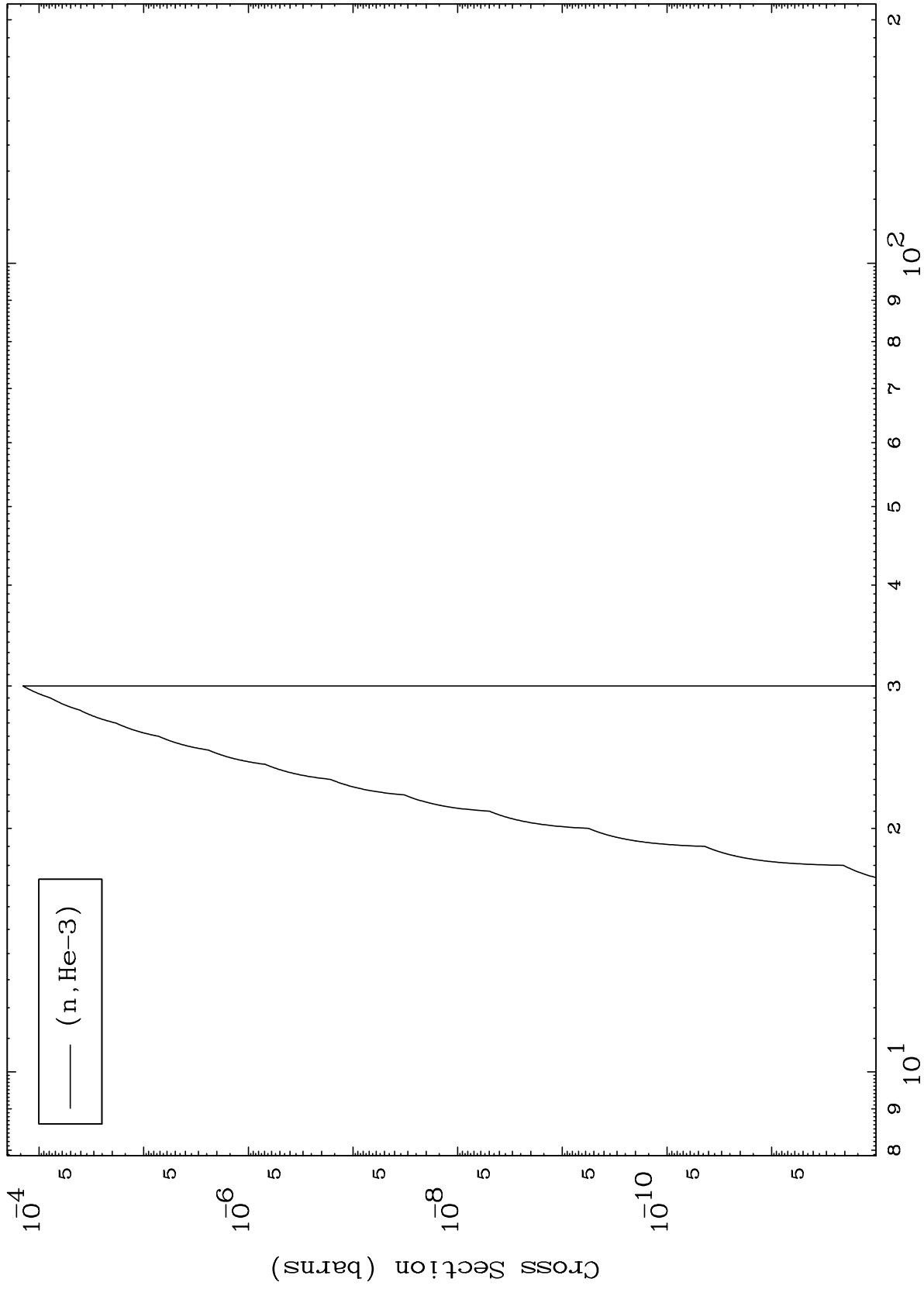
Incident Energy (MeV)

64-Gd-158

MAT 6443

(n,He3) Levels
293 Kelvin Cross Sections

64-Gd-158



13

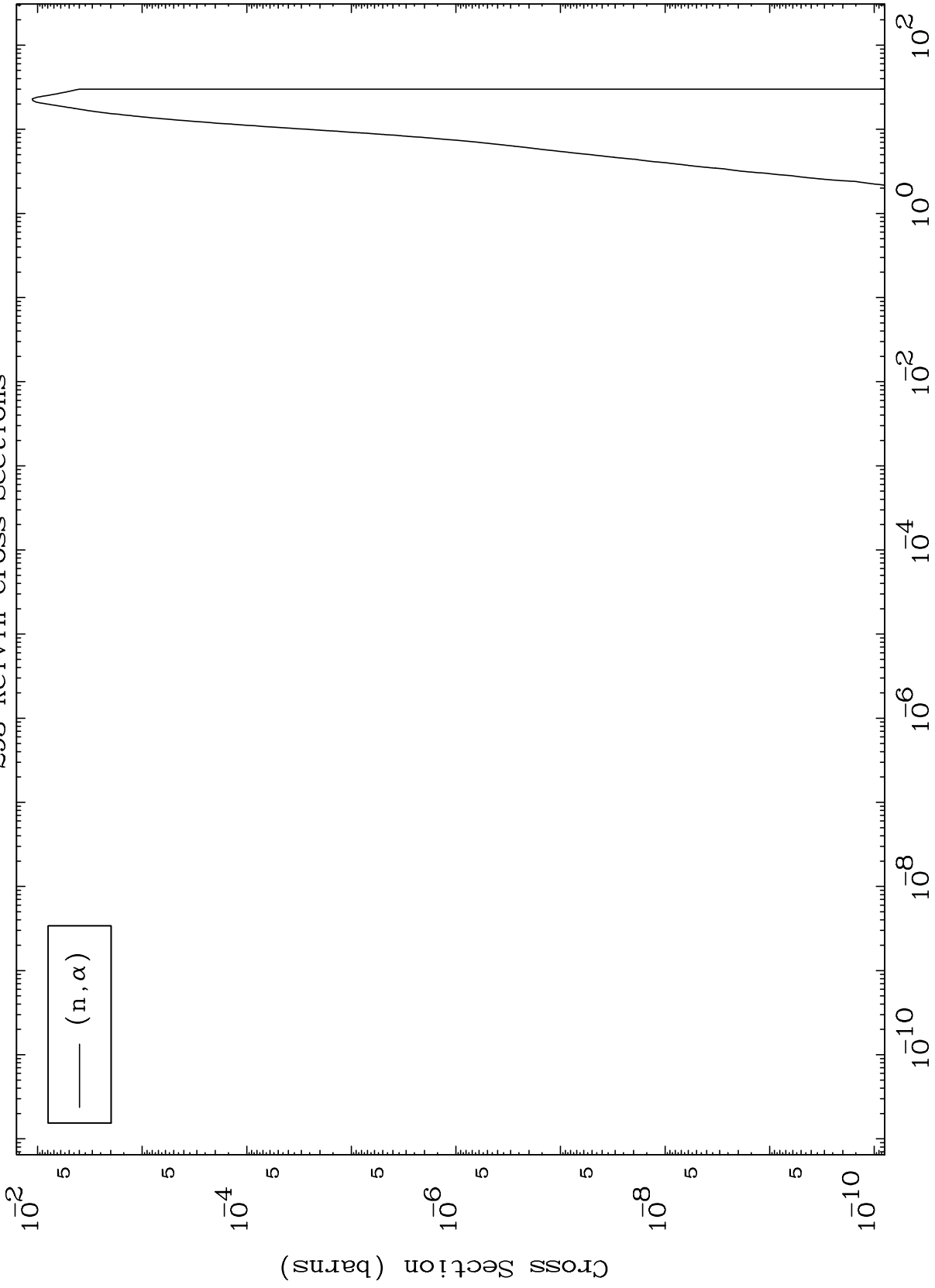
Incident Energy (MeV)

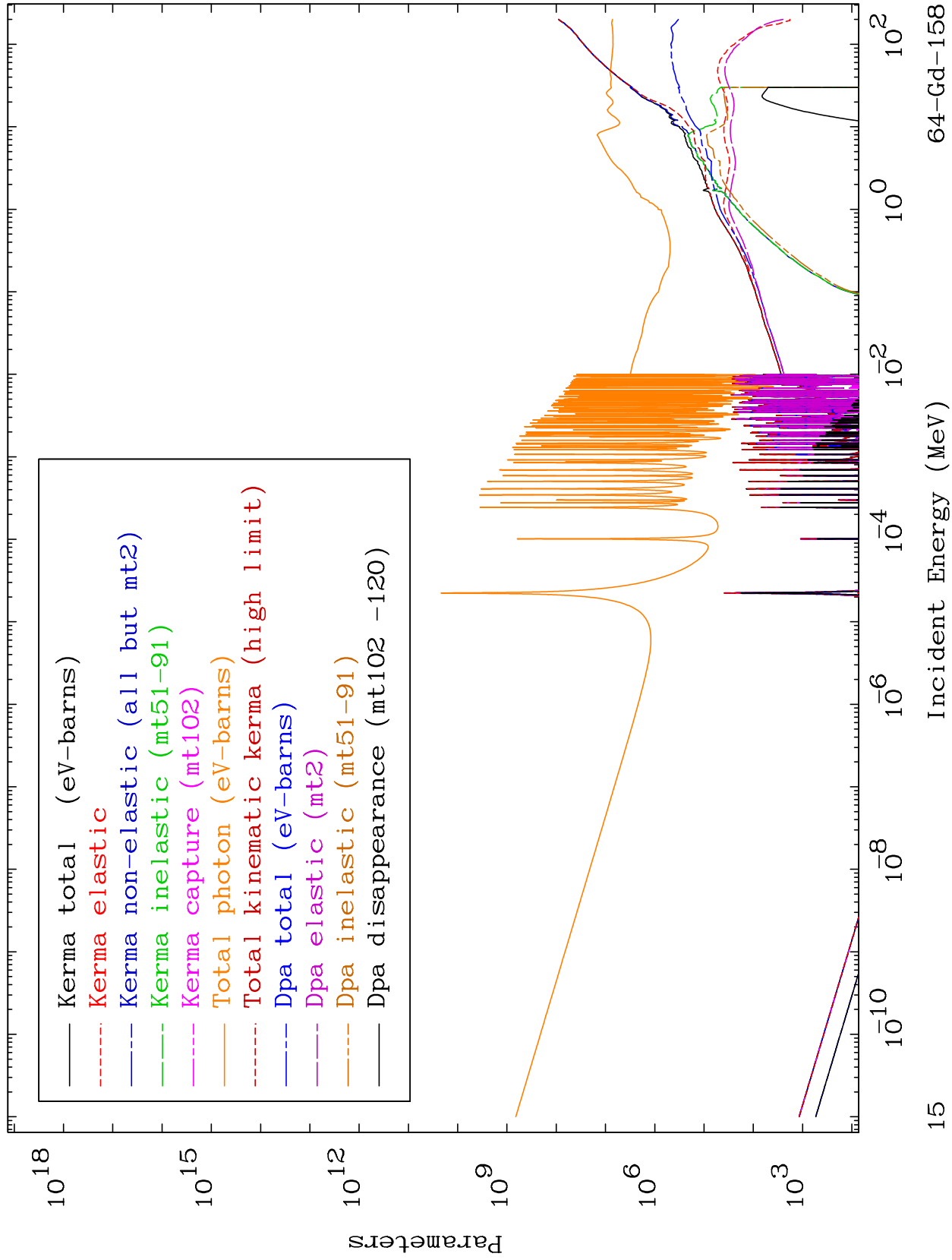
64-Gd-158

MAT 6443

(n, α) Levels
293 Kelvin Cross Sections

64-Gd-158

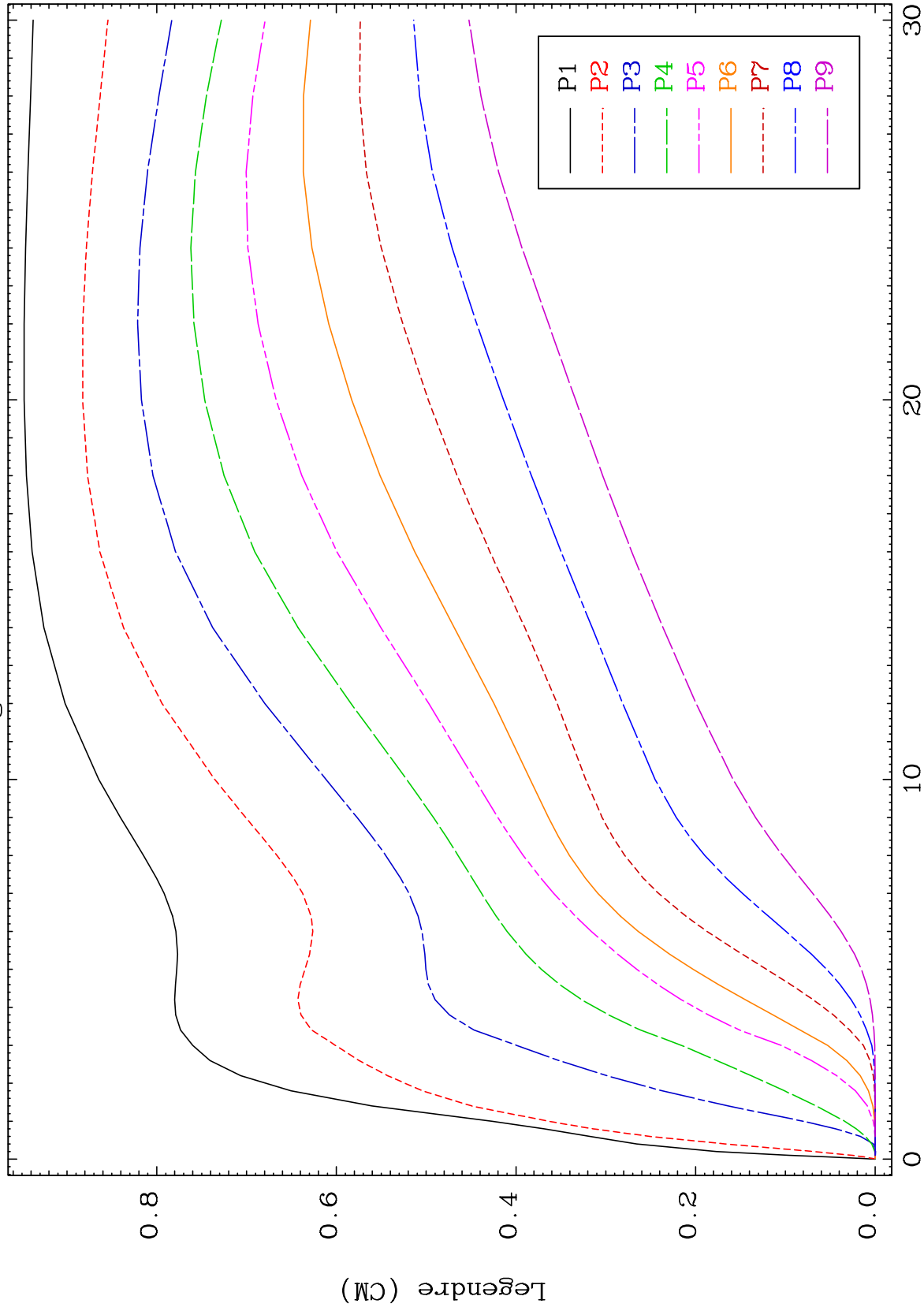




MAT 6443

Elastic Legendre Coefficients

64-Gd-158



0

0.0

0.2

0.4

0.6

0.8

16

20

24

30

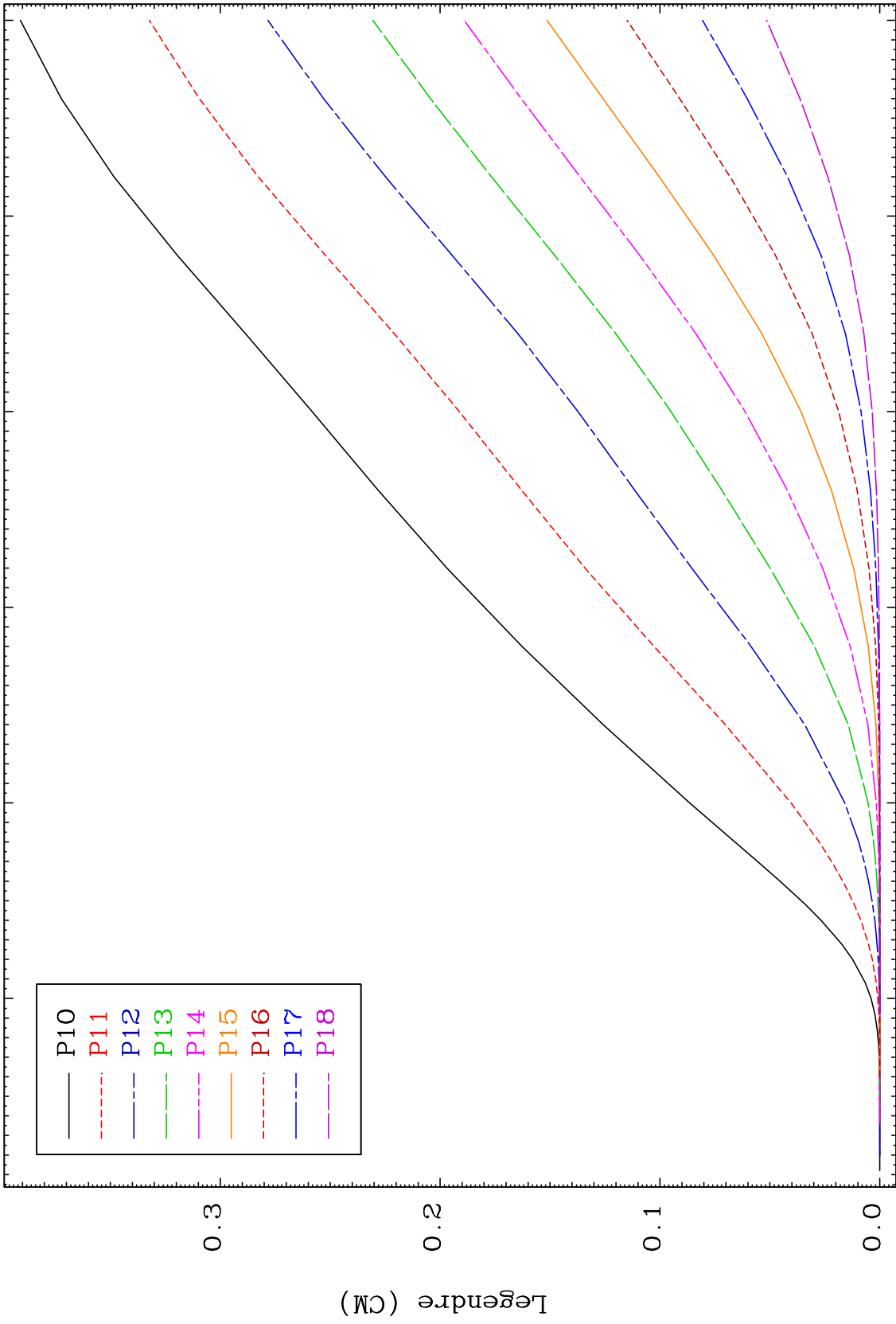
Incident Energy (MeV)

64-Gd-158

MAT 6443

Elastic Legendre Coefficients

64-Gd-158



17

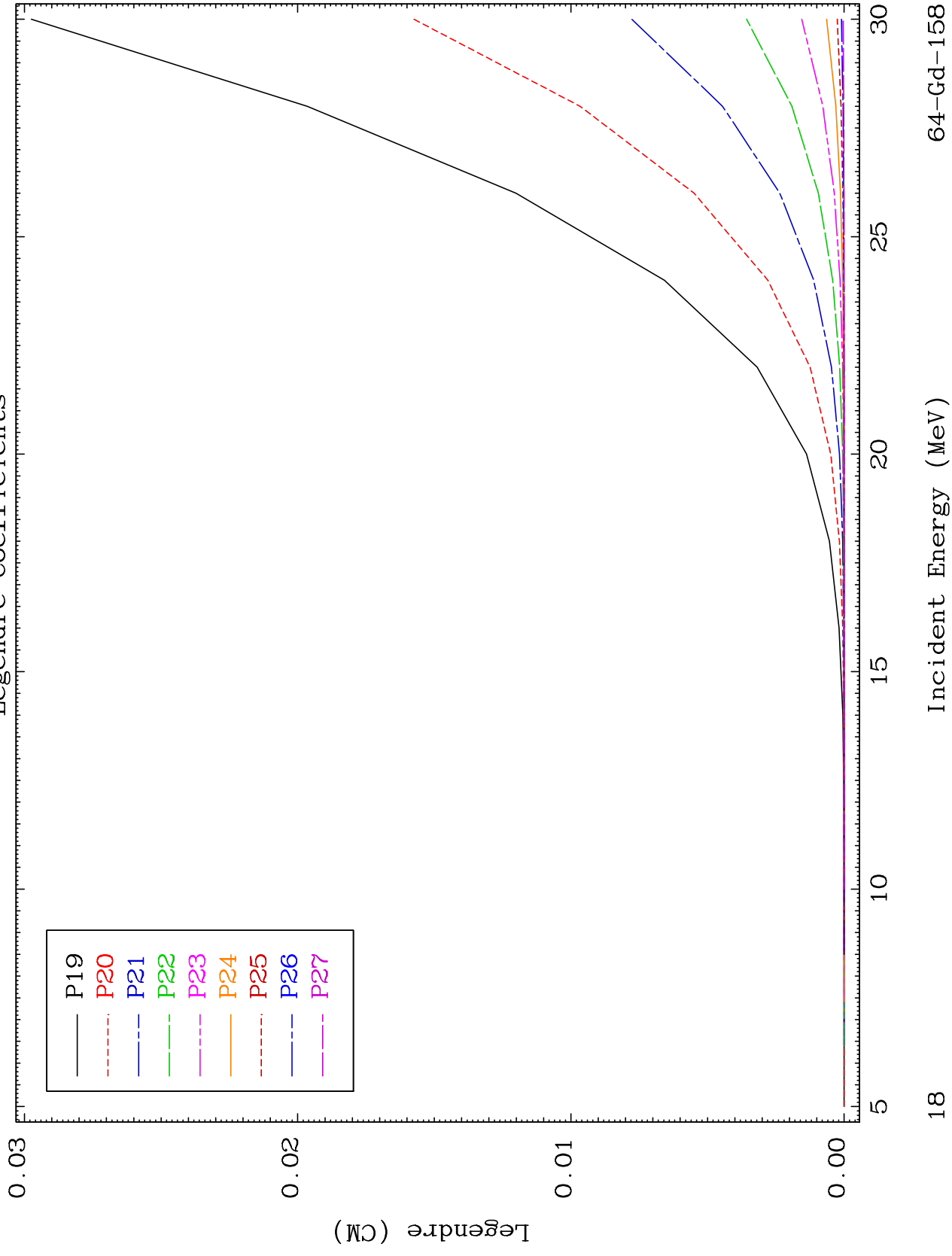
Incident Energy (MeV)

64-Gd-158

MAT 6443

Elastic Legendre Coefficients

64-Gd-158



18

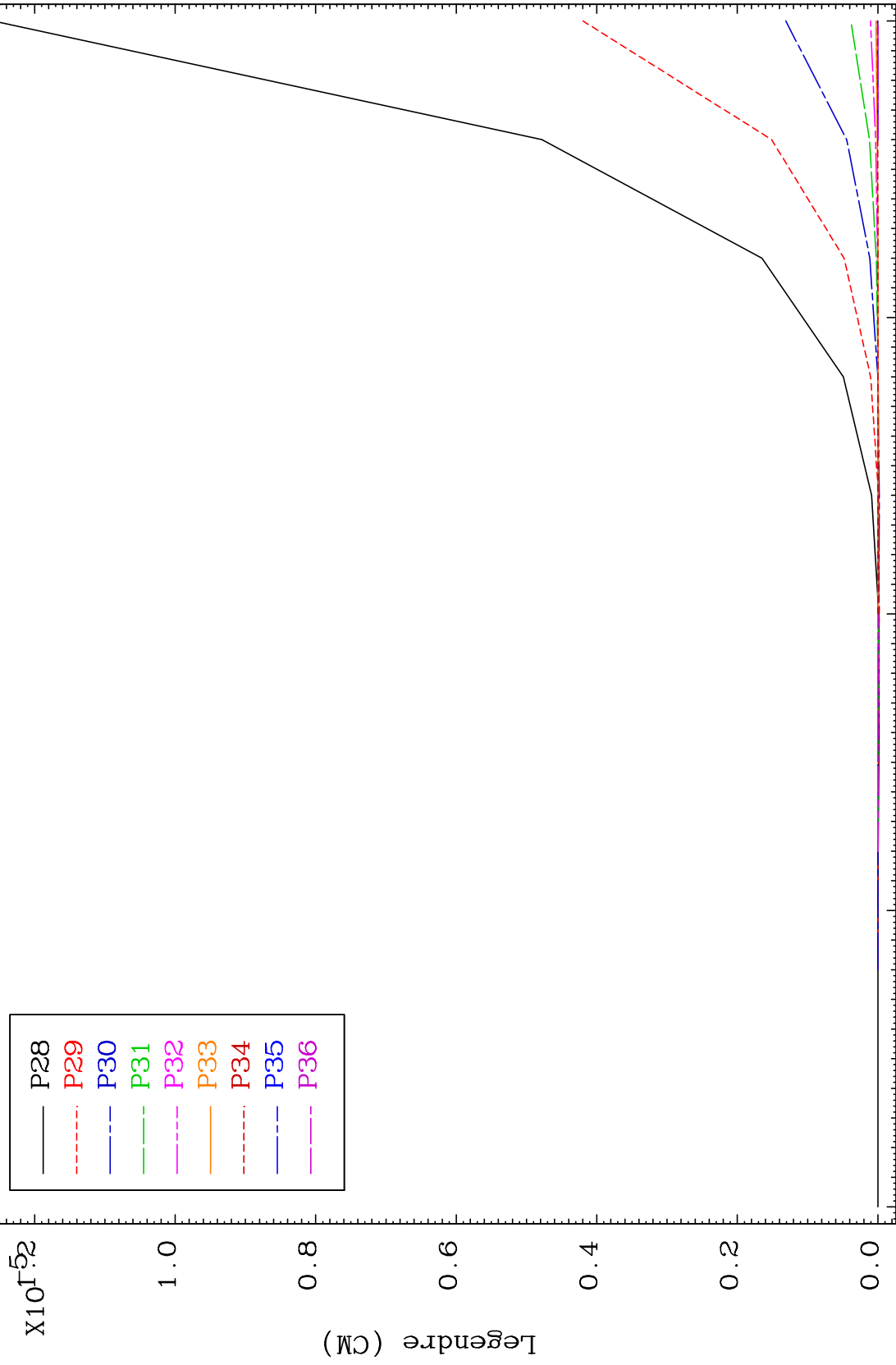
Incident Energy (MeV)

64-Gd-158

MAT 6443

Elastic Legendre Coefficients

64-Gd-158

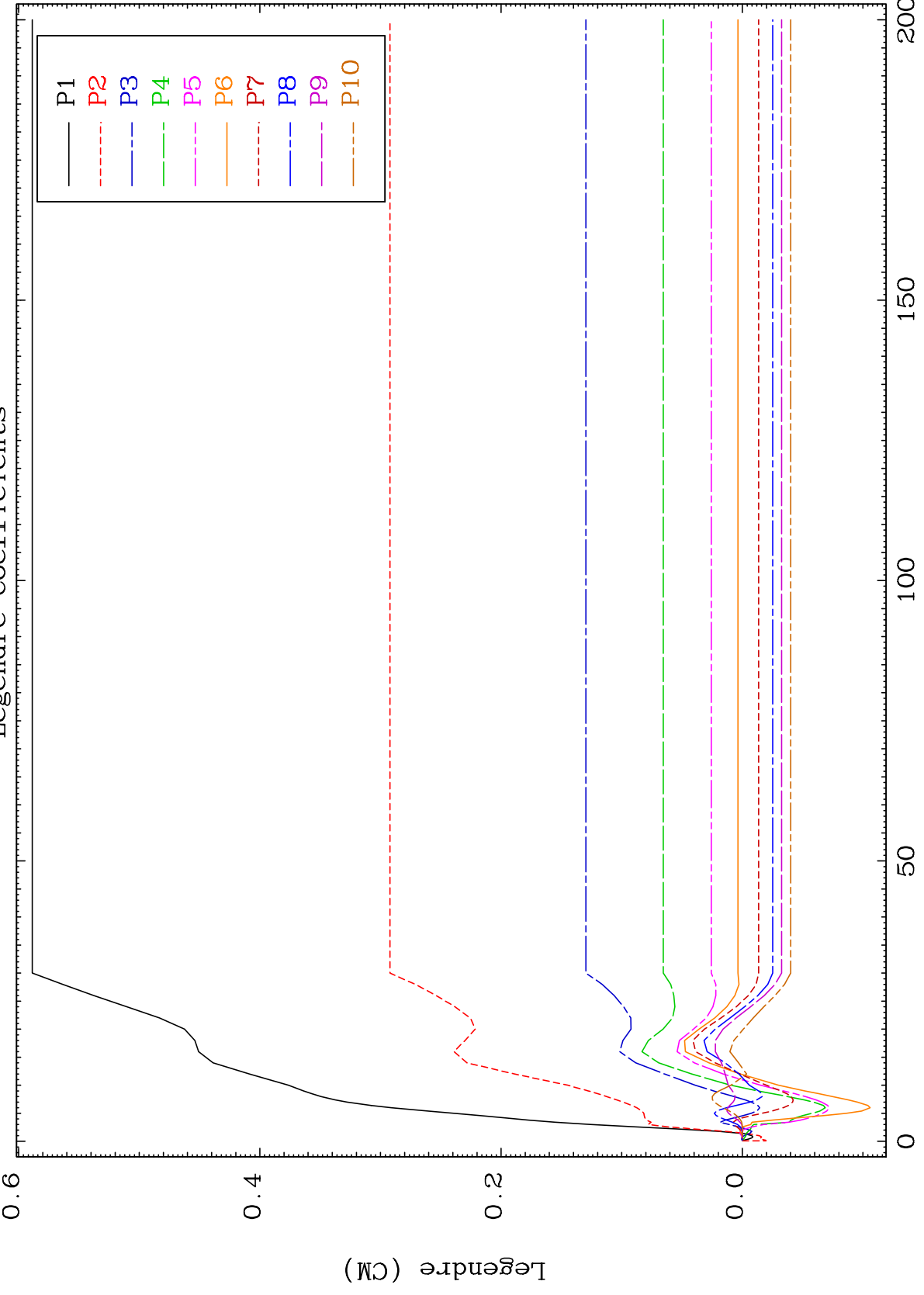


19

Incident Energy (MeV)

64-Gd-158

MAT 6443 MT= 51 (n,n') Level Legendre Coefficients 64-Gd-158

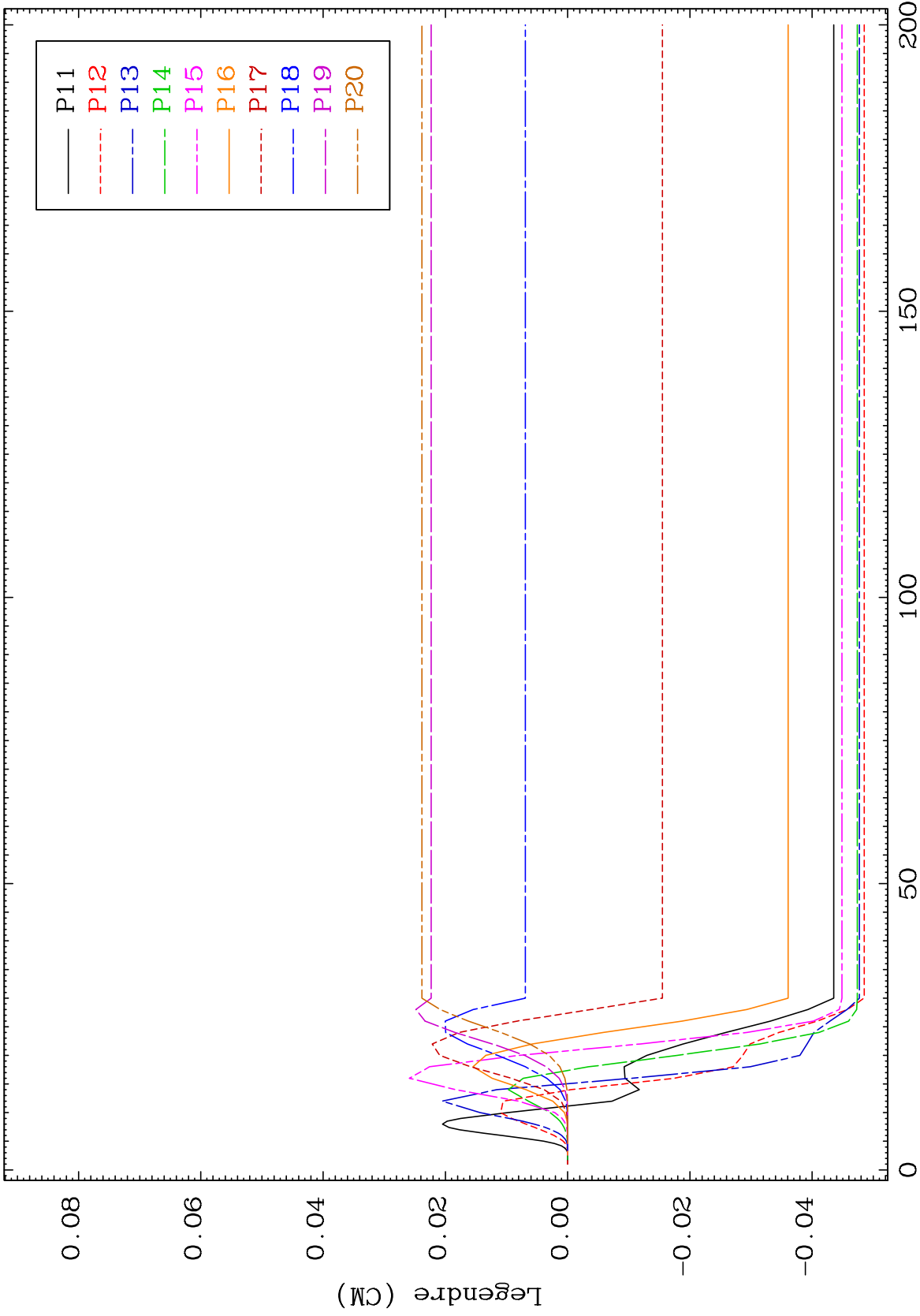


64-Gd-158

MAT 6443

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

64-Gd-158



21

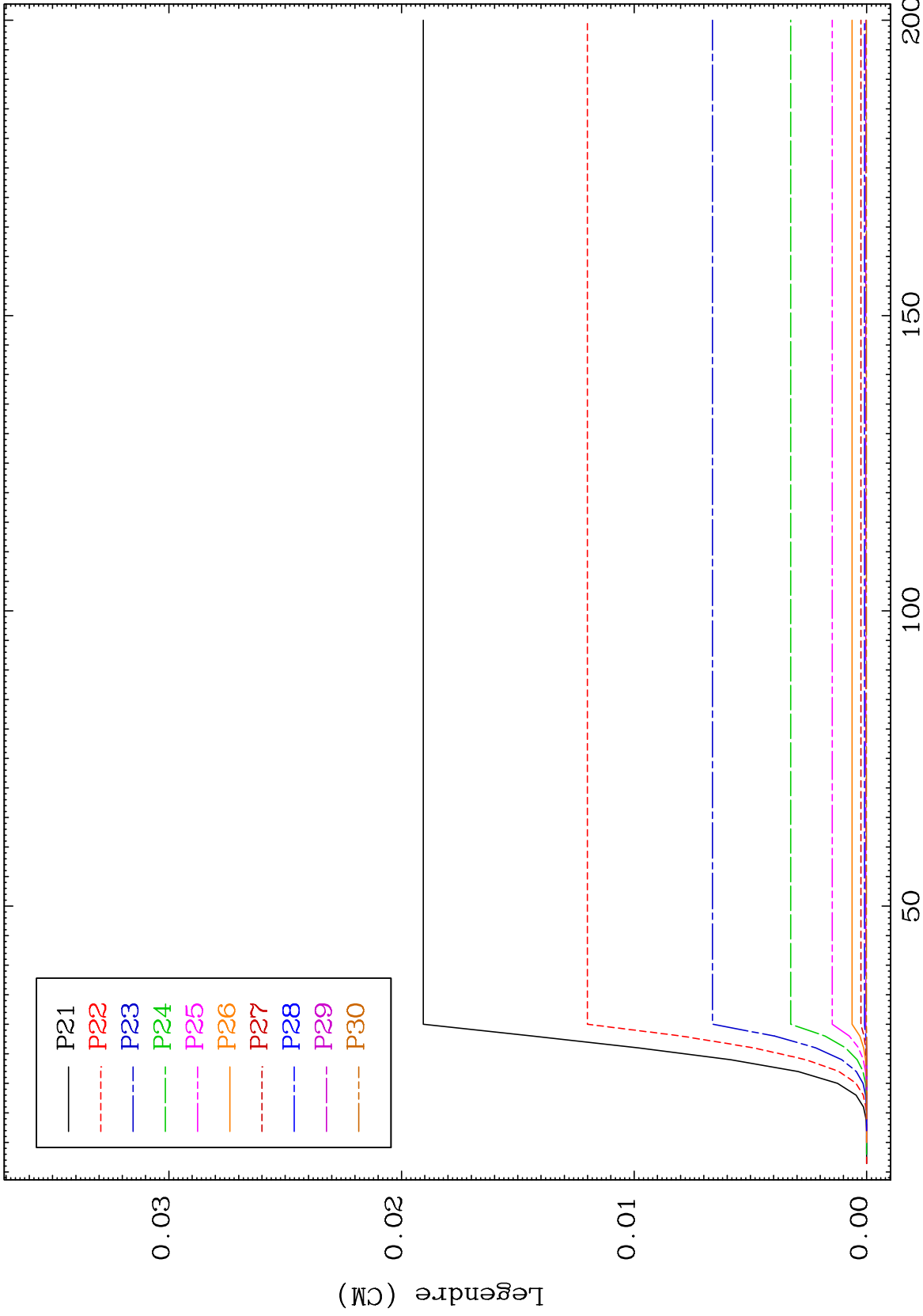
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



22

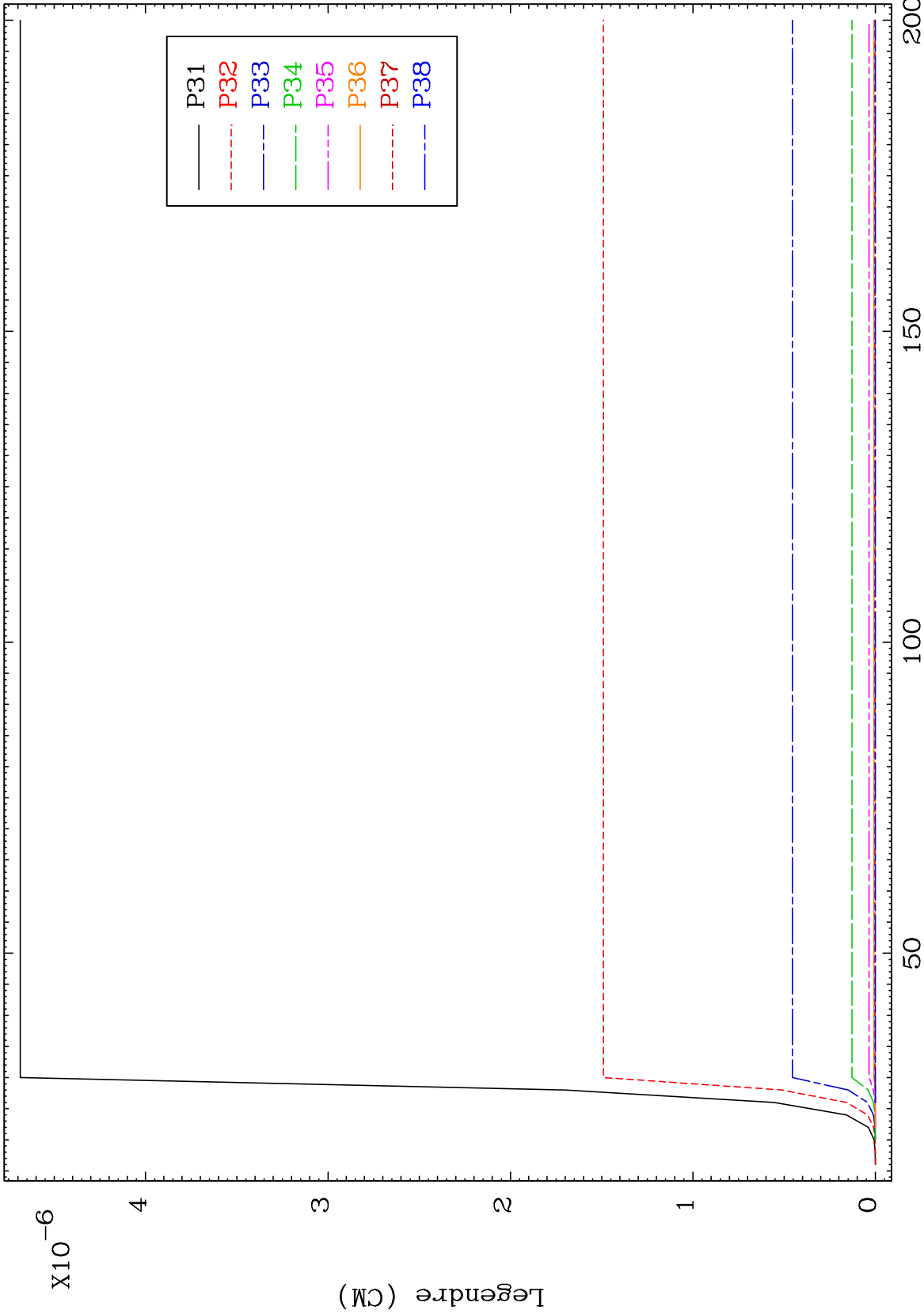
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



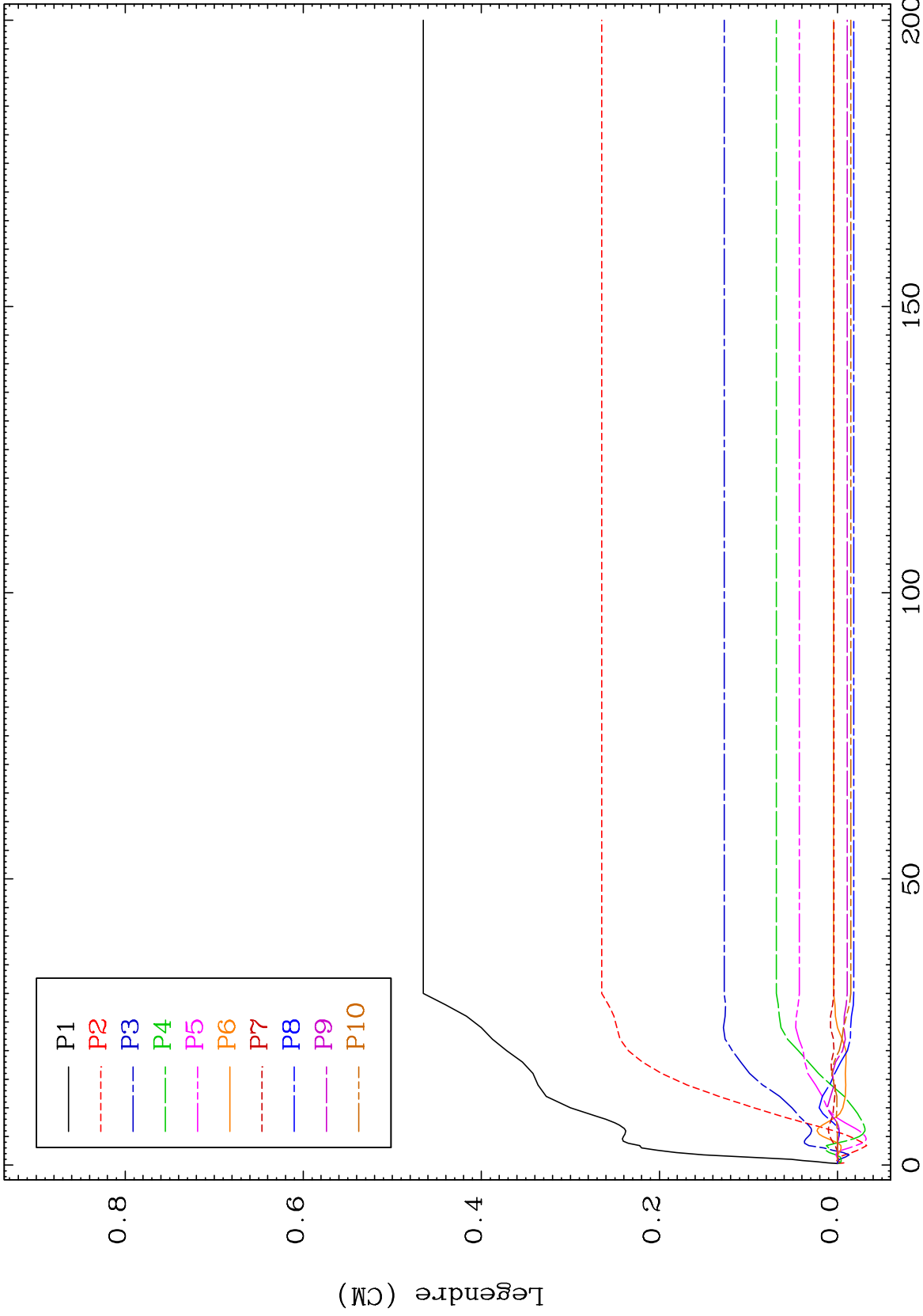
23

64-Gd-158

MAT 6443

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

64-Gd-158



24

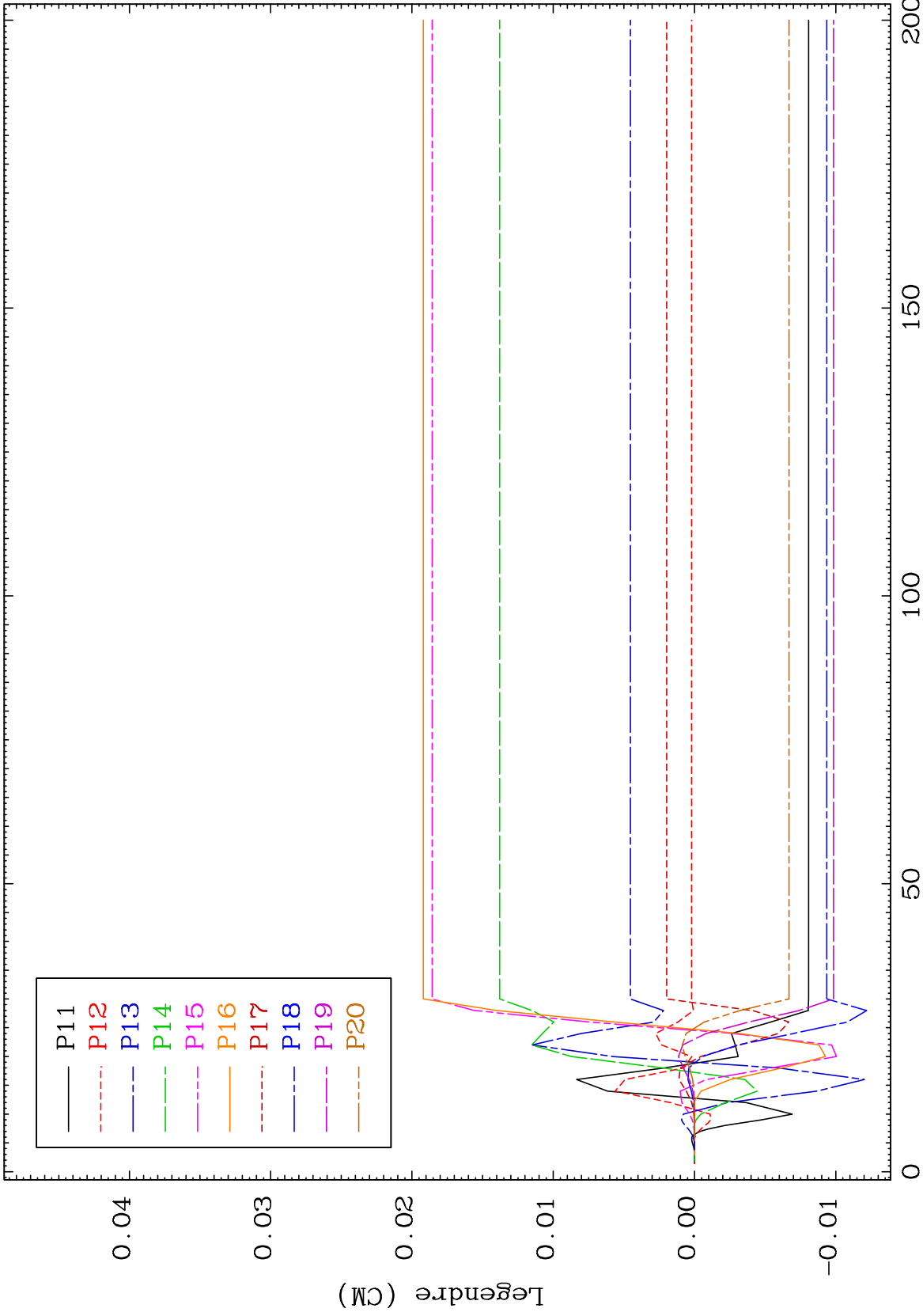
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



25

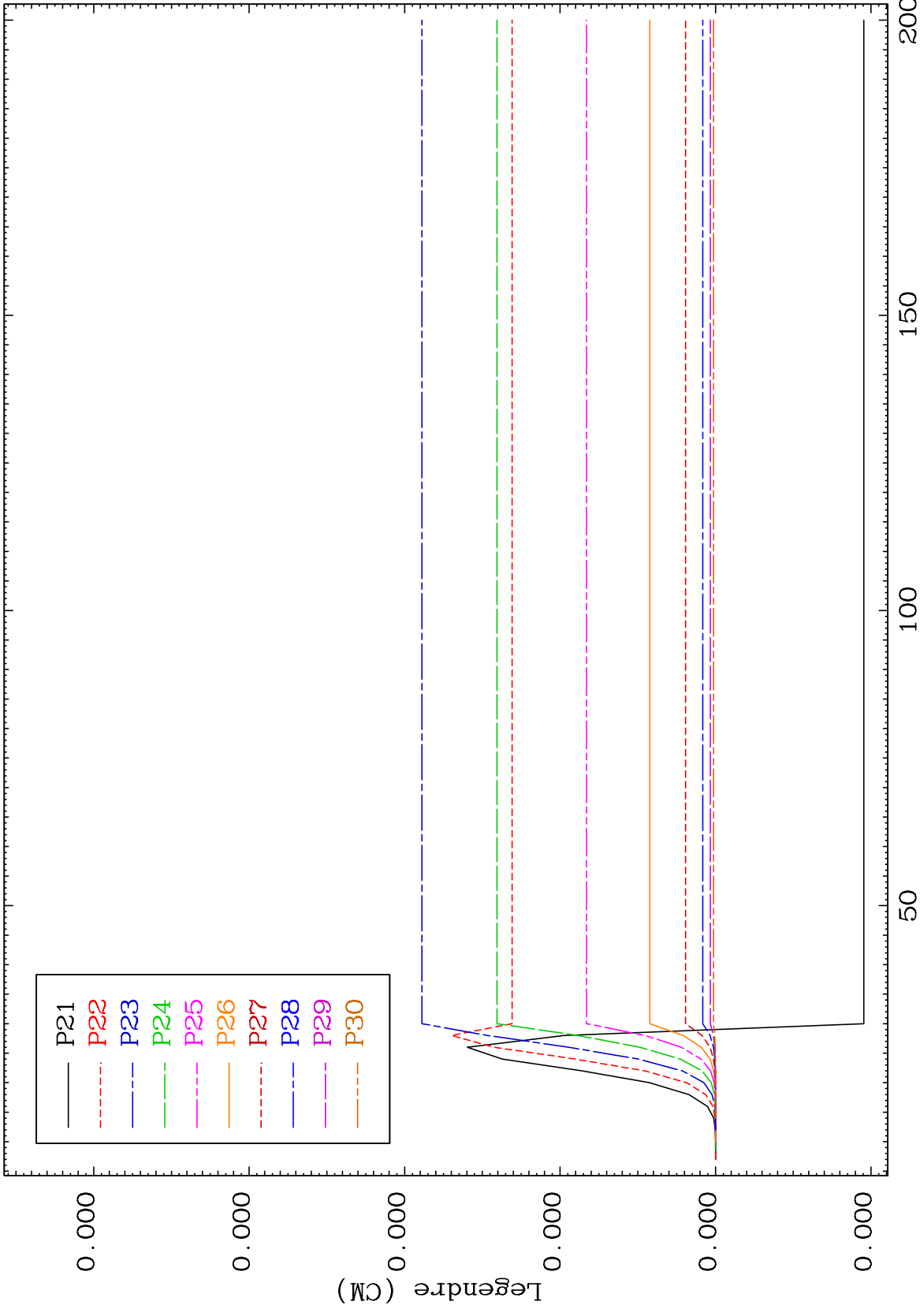
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

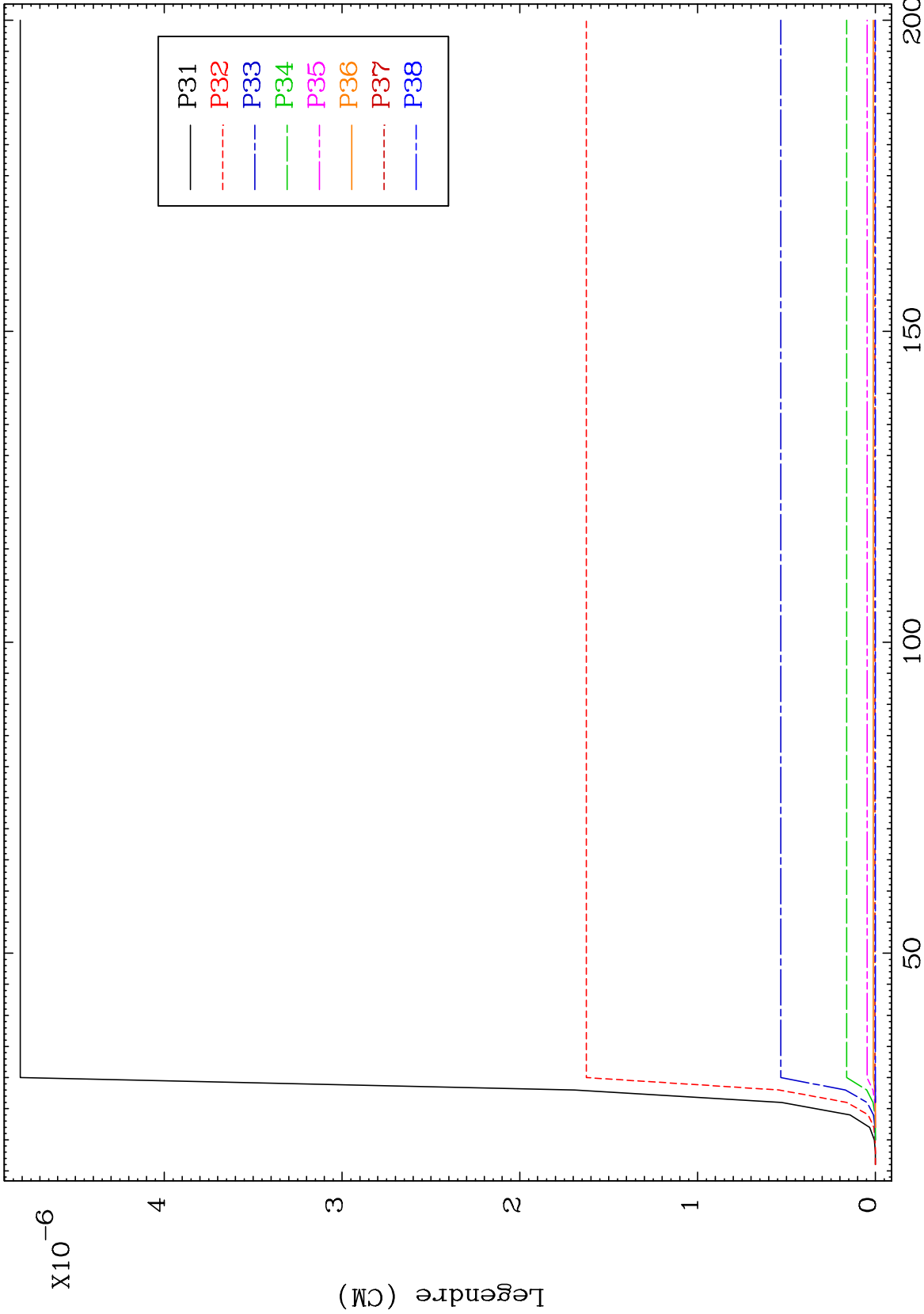
64-Gd-158



MAT 6443

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

64-Gd-158



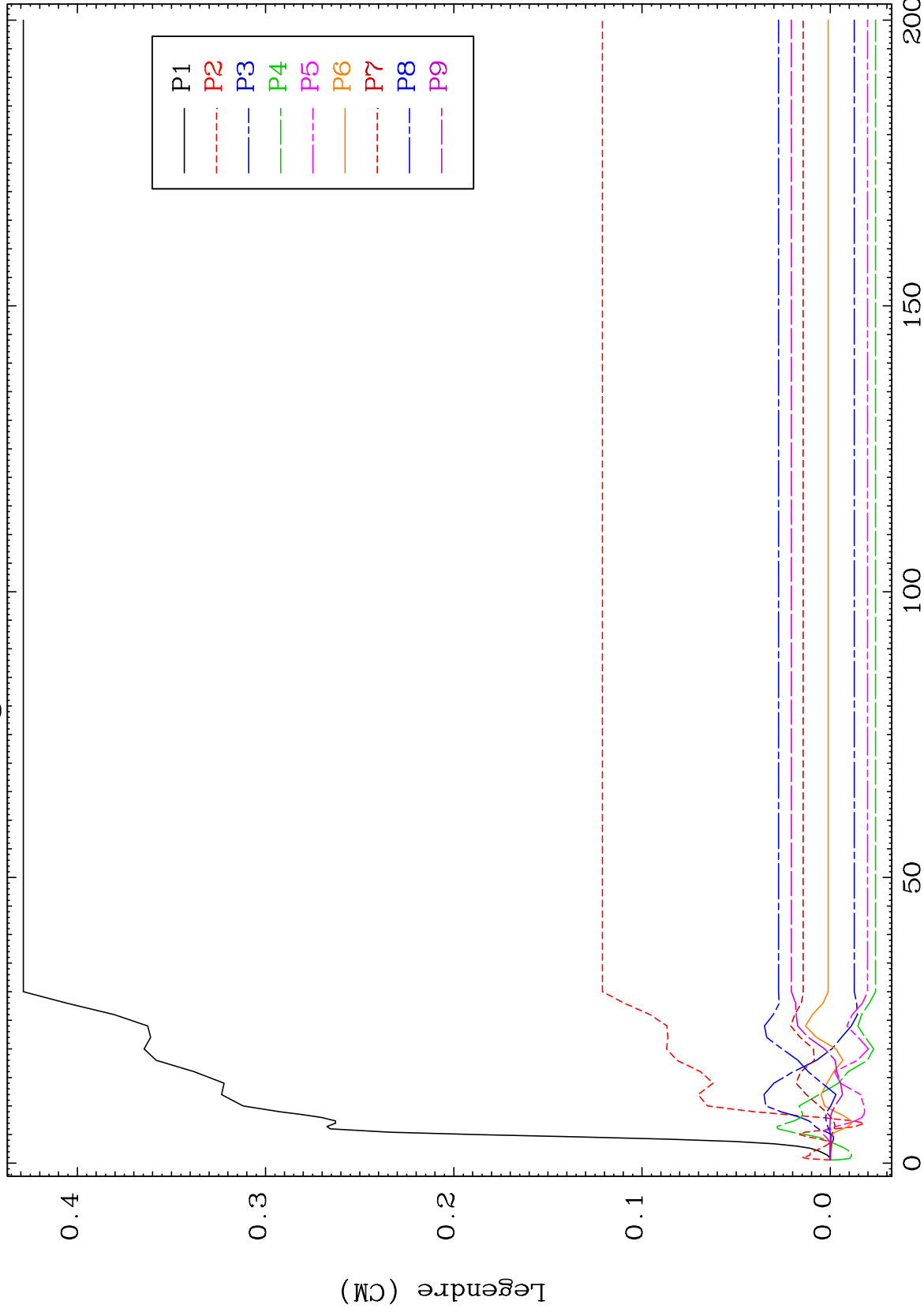
27

64-Gd-158

MAT 6443

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

64-Gd-158



28

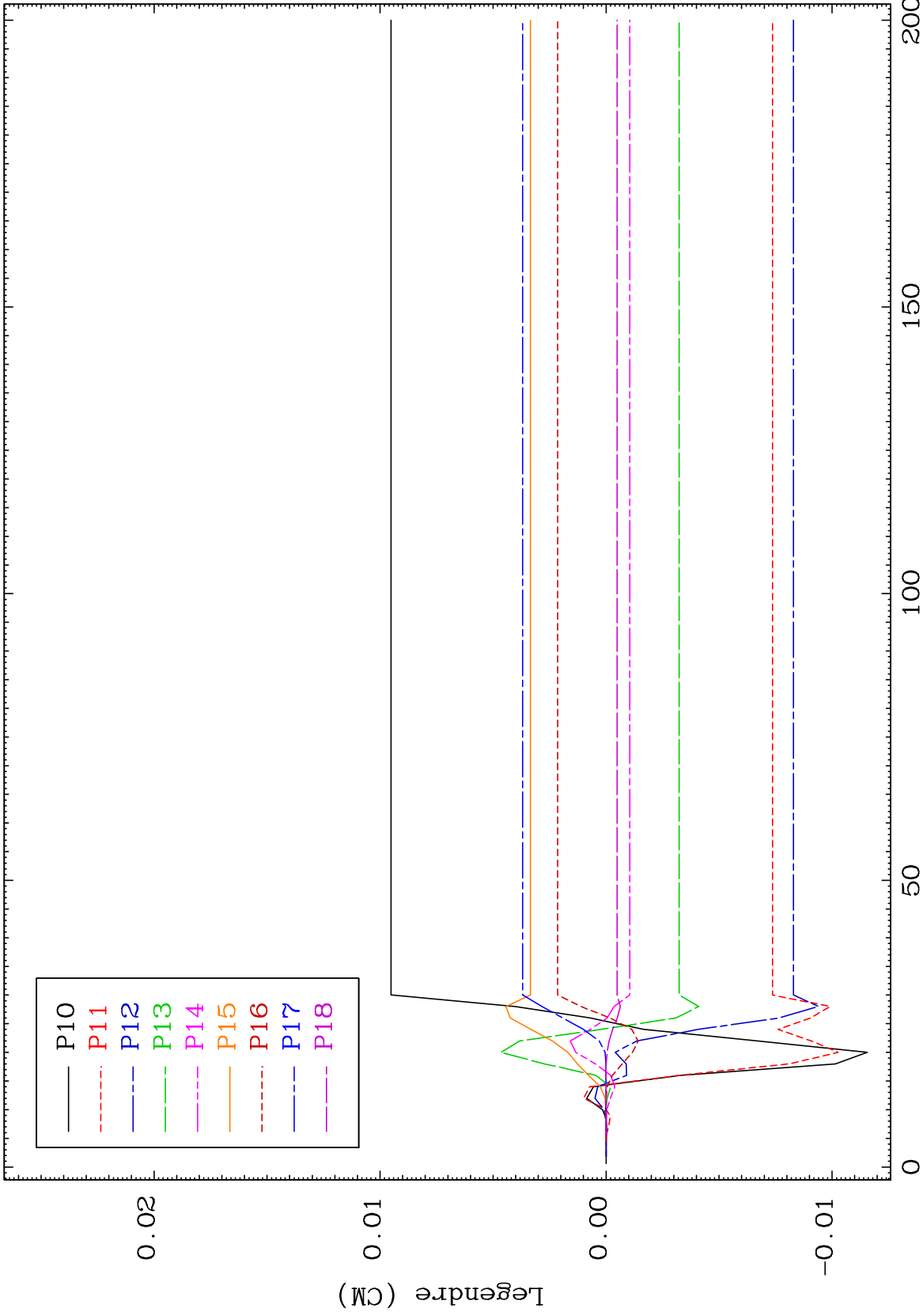
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



29

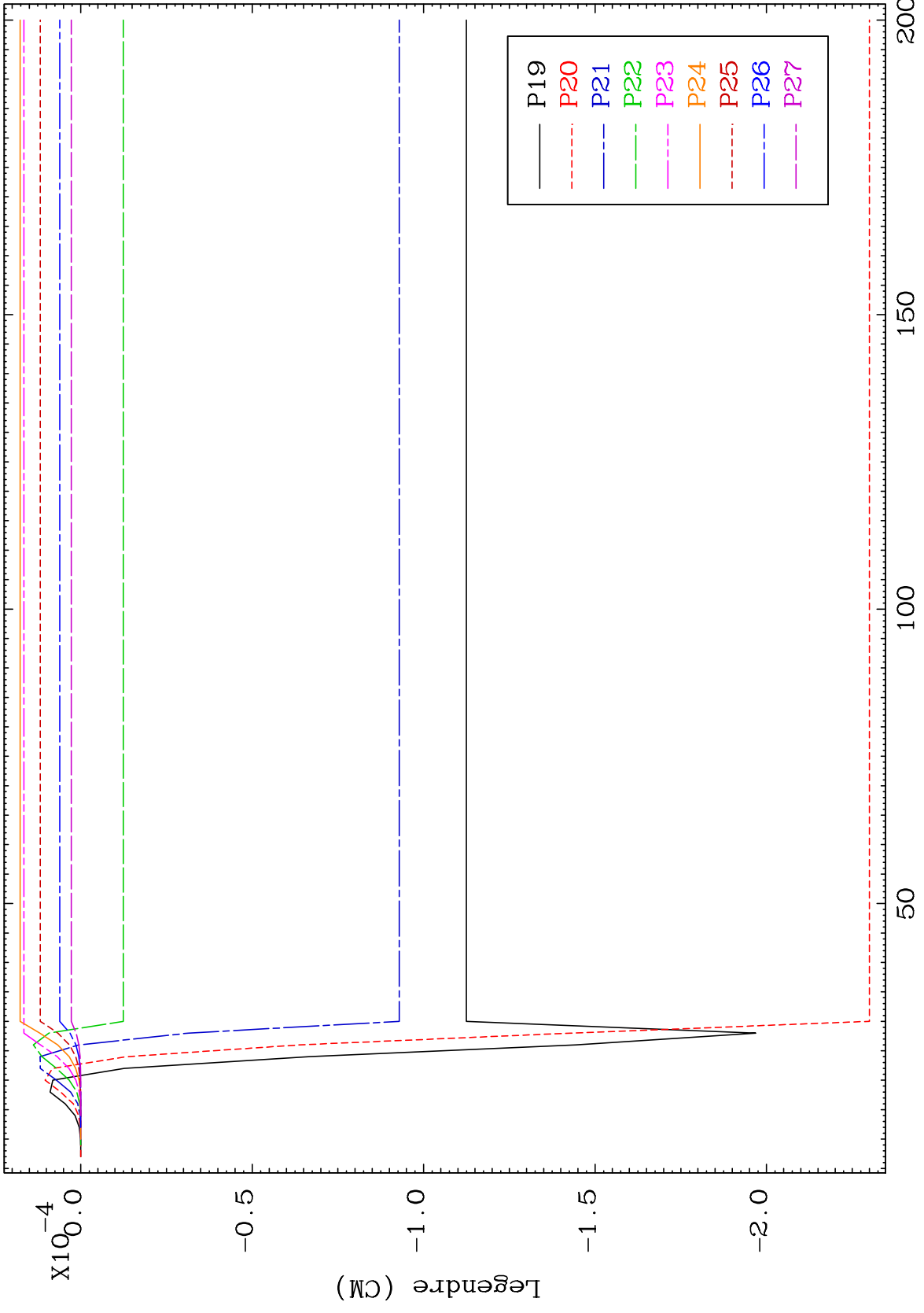
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



30

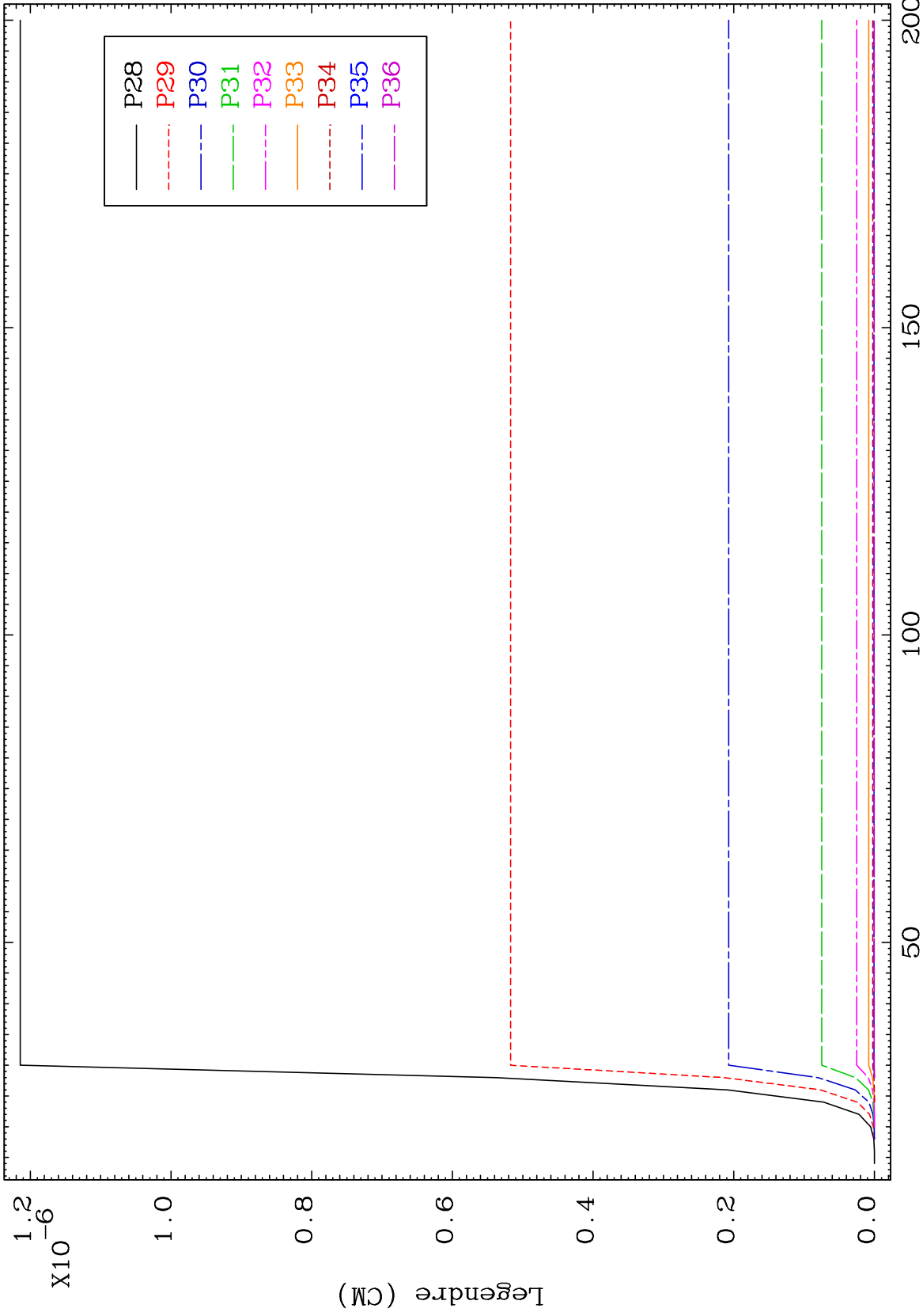
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



31

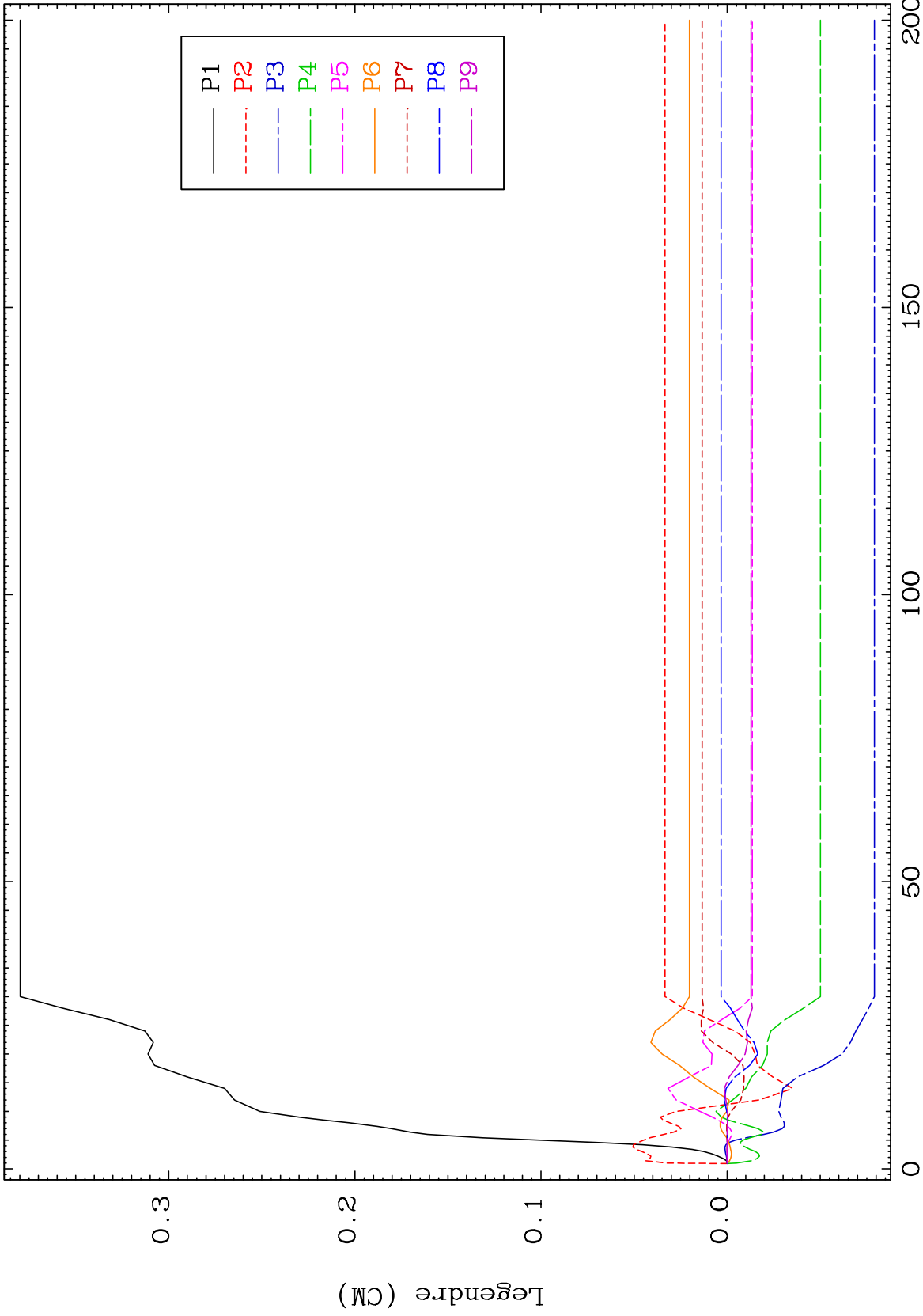
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



32

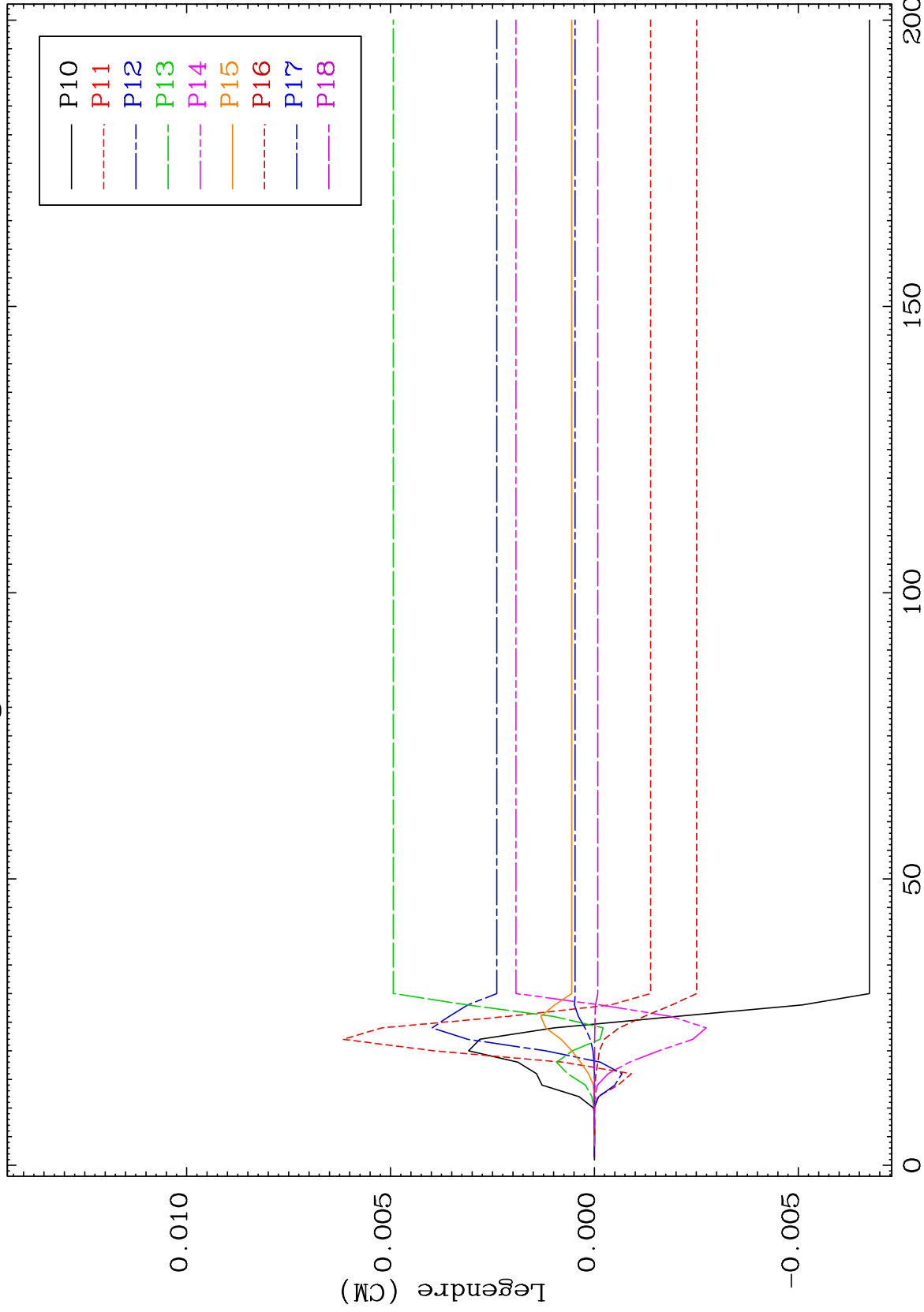
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



33

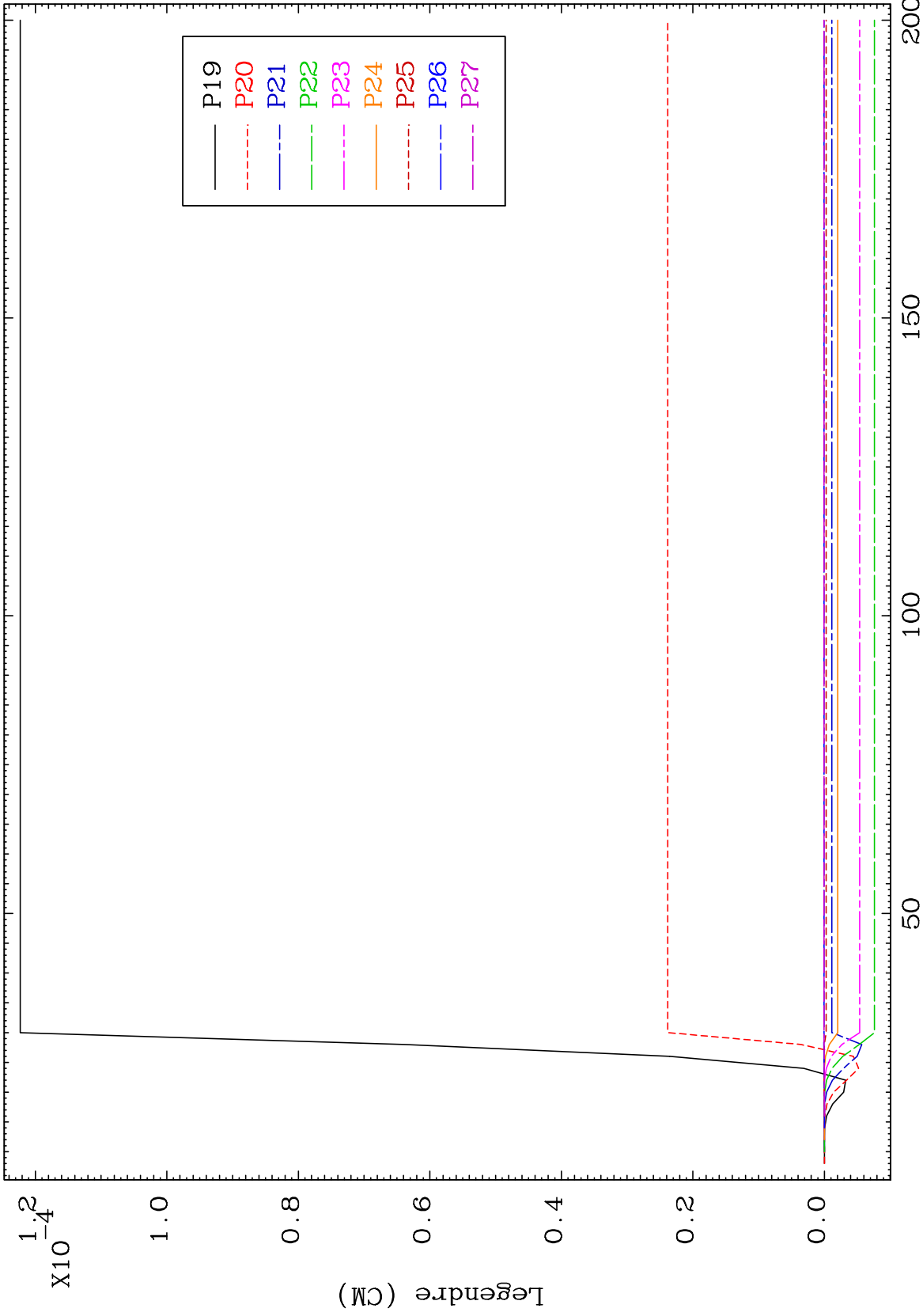
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



34

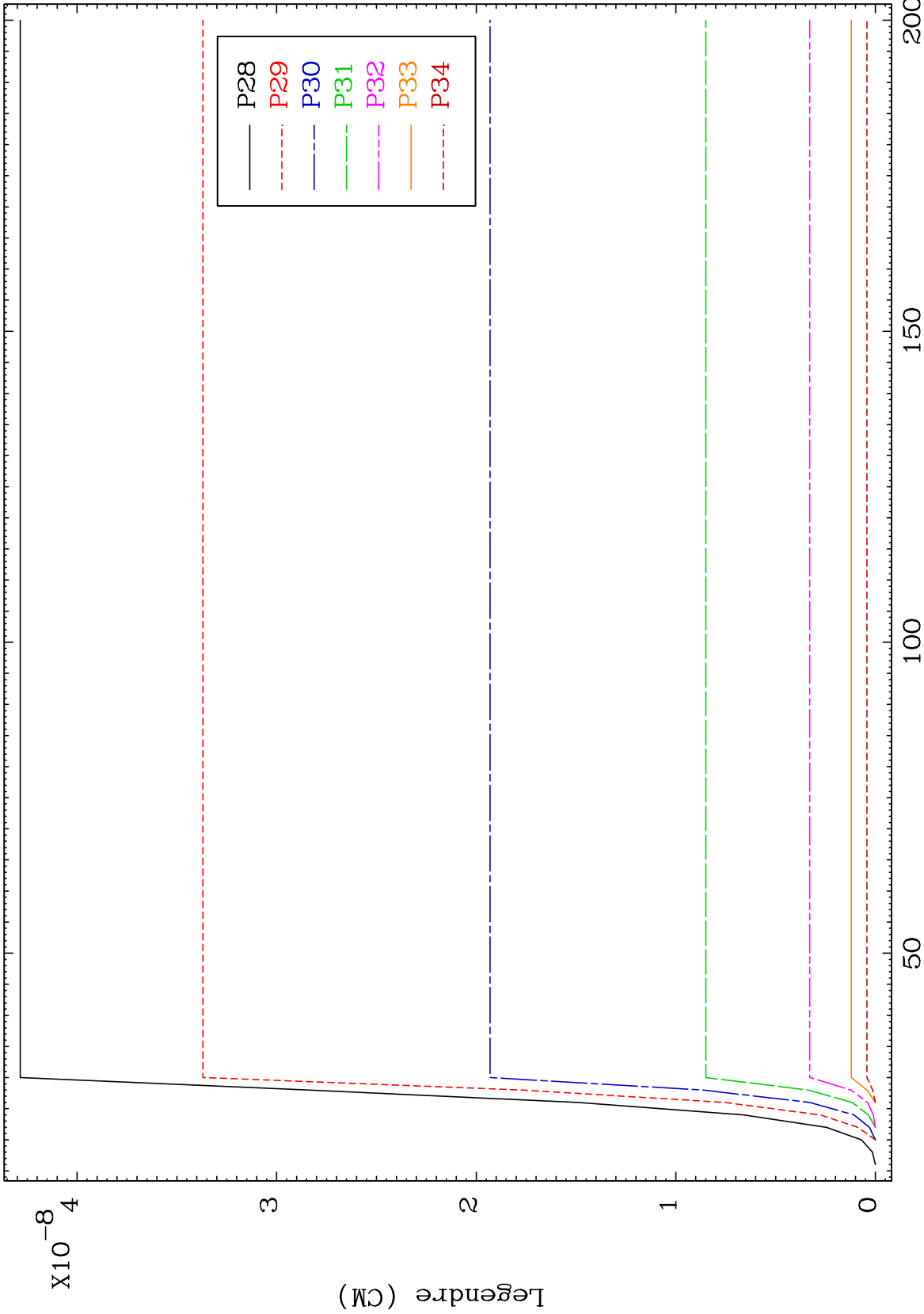
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



35

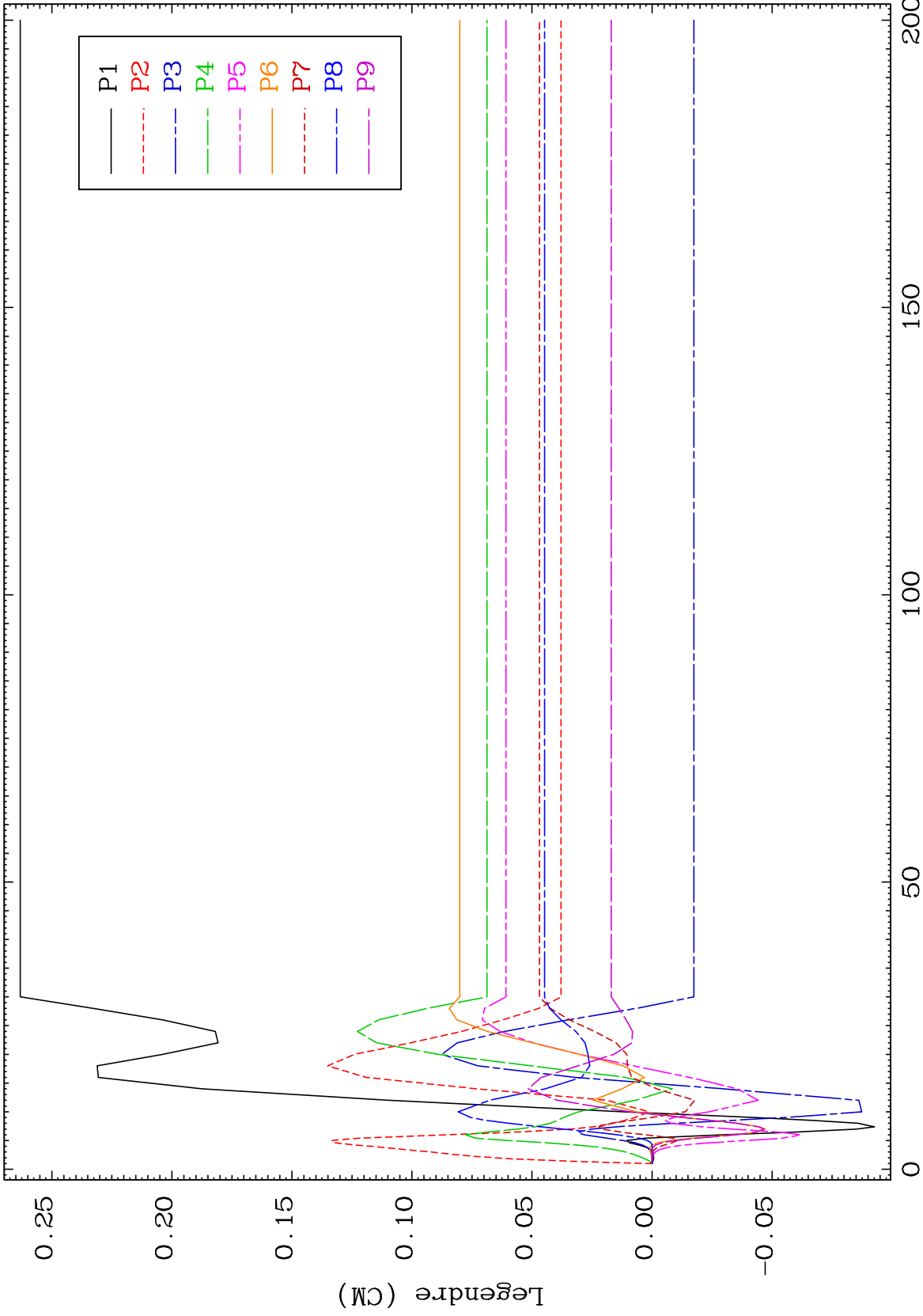
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



36

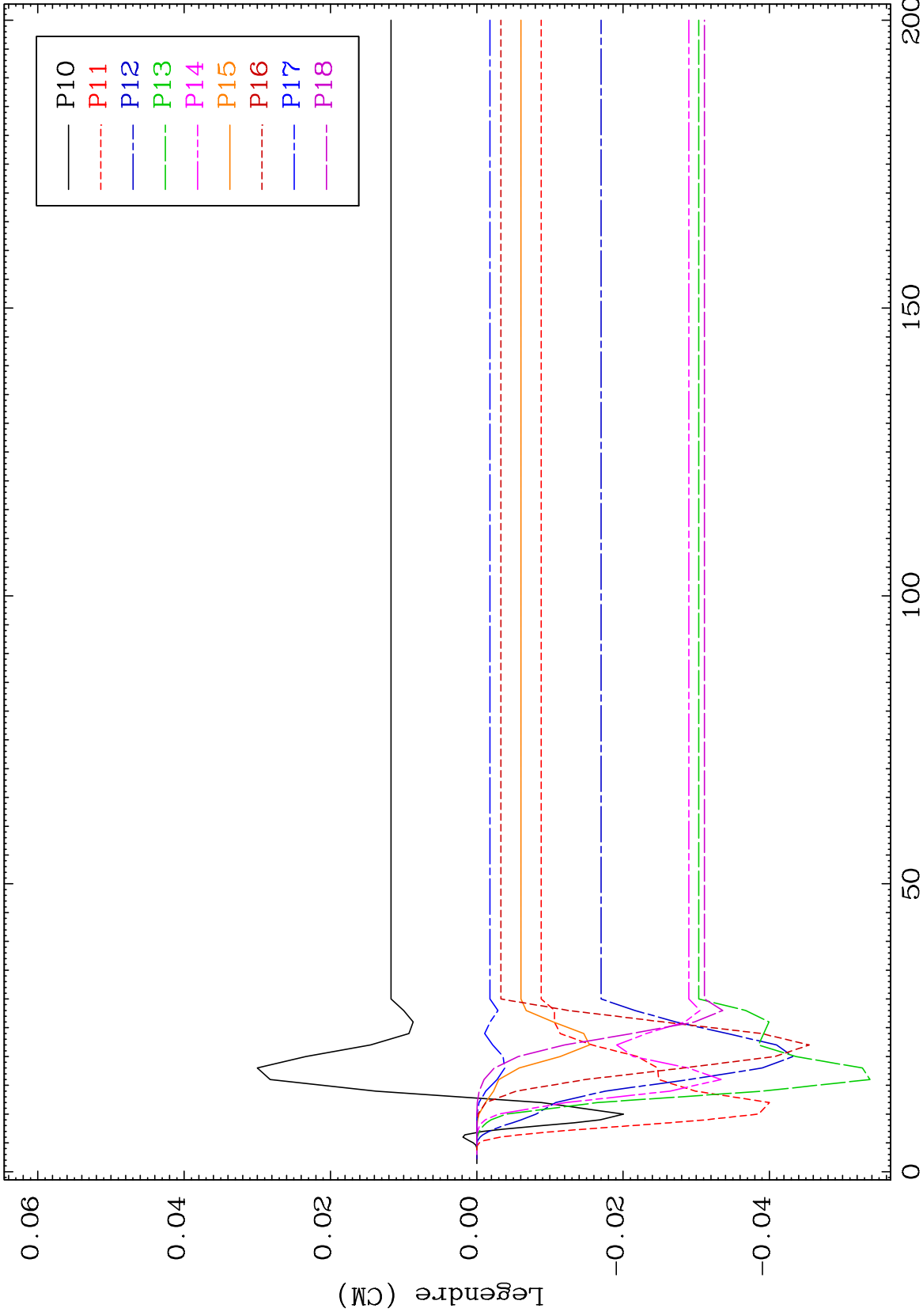
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



37

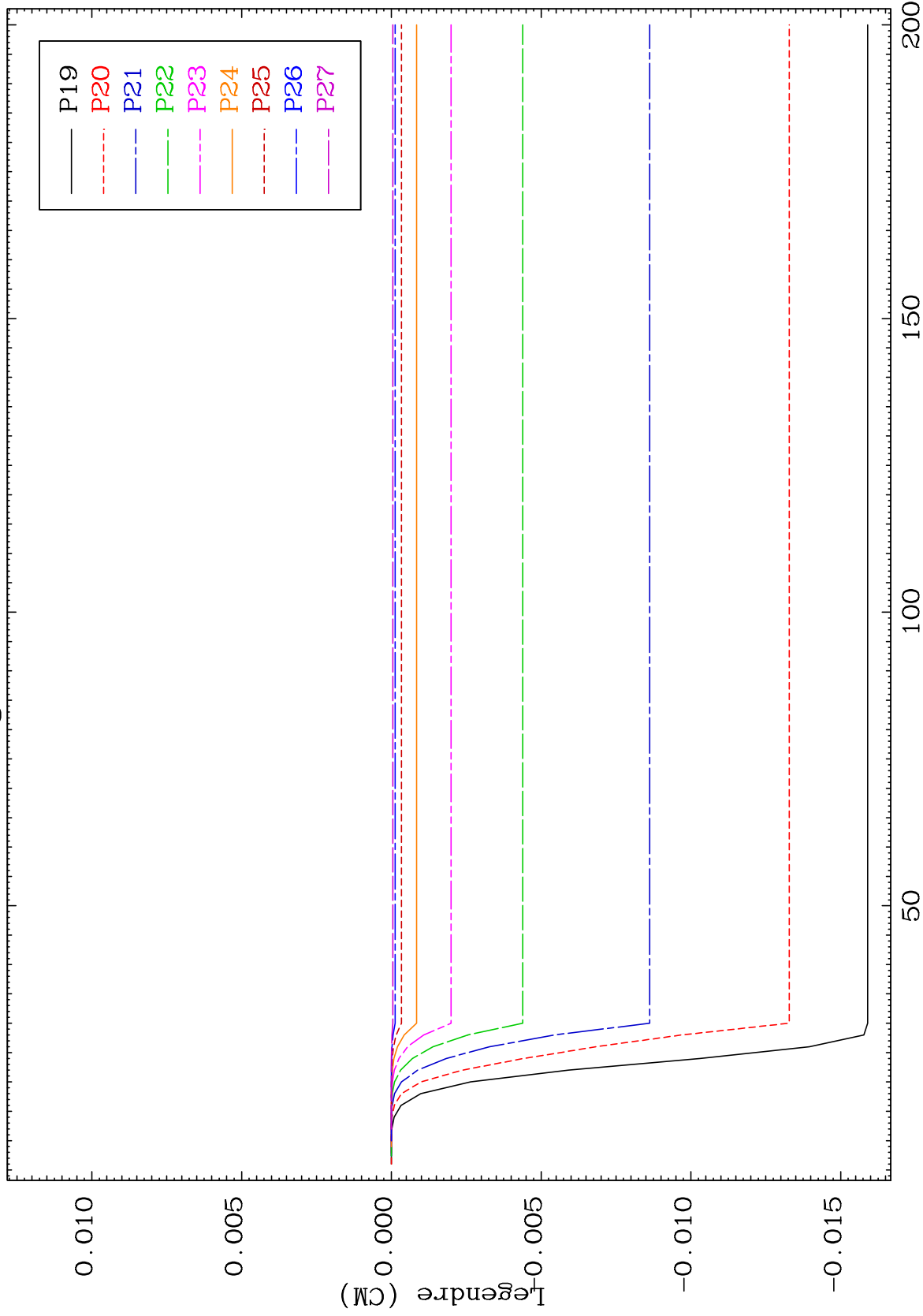
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



38

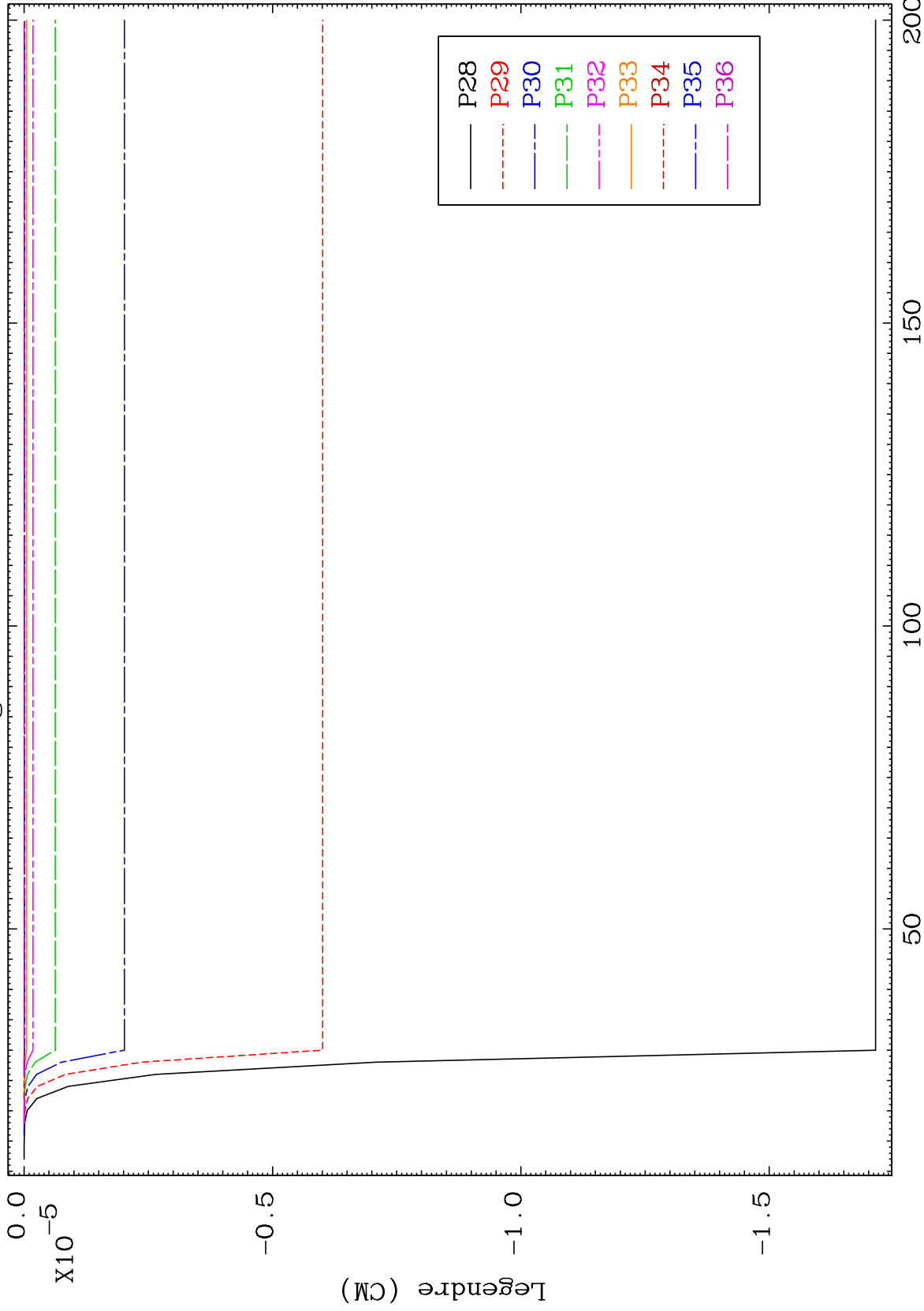
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



64-Gd-158

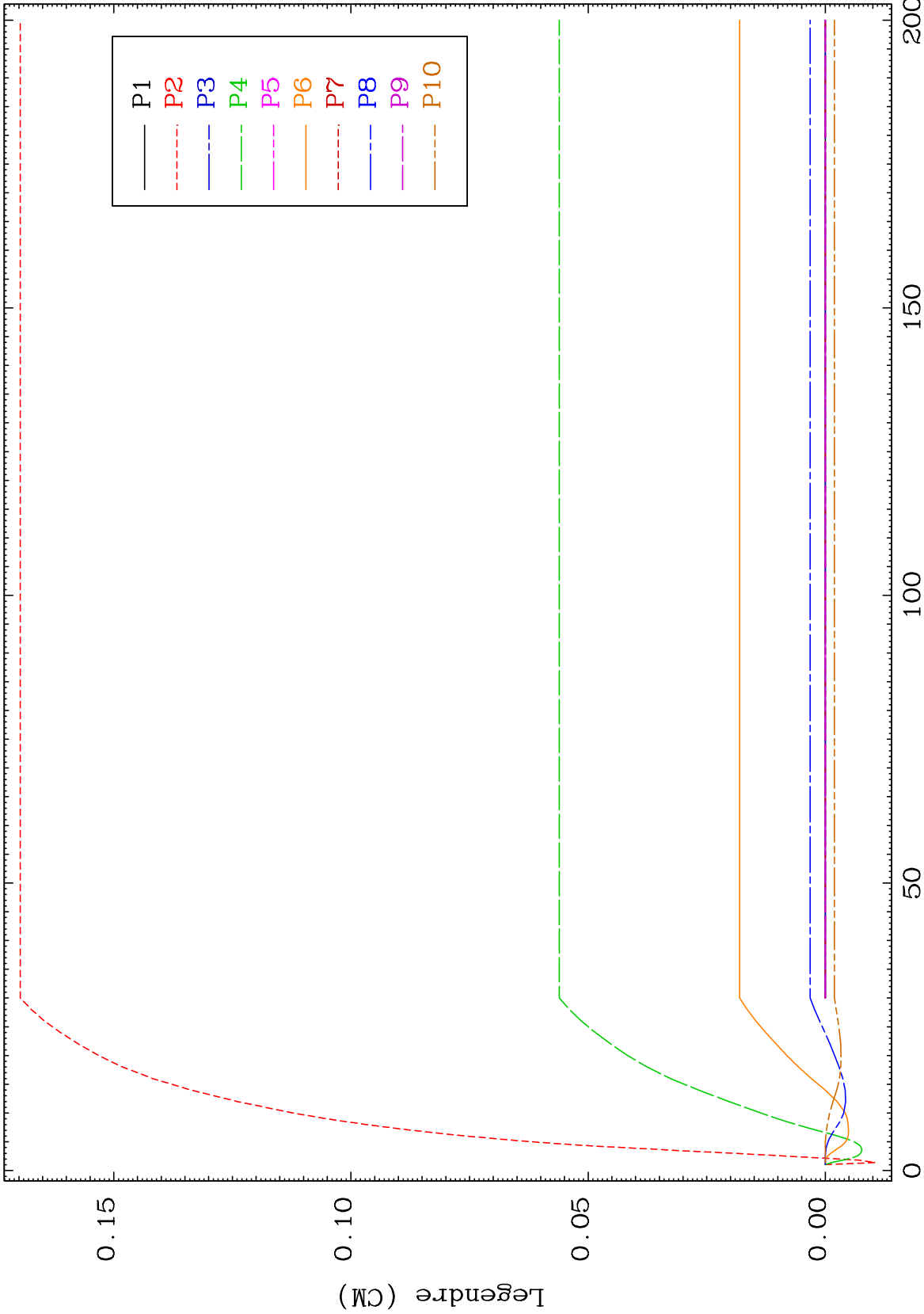
Incident Energy (MeV)

39

MAT 6443

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

64-Gd-158



64-Gd-158

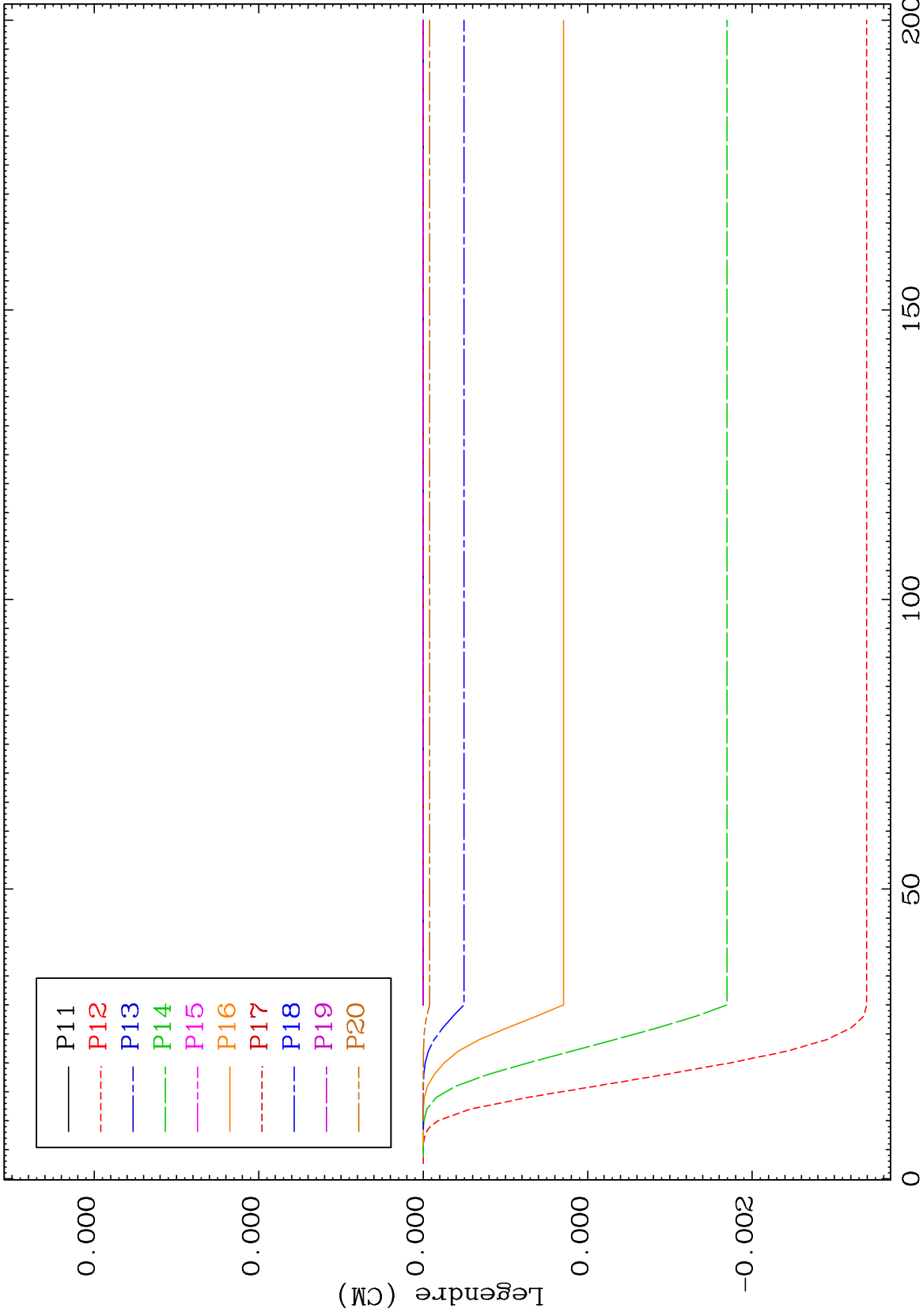
Incident Energy (MeV)

40

MAT 6443

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

64-Gd-158



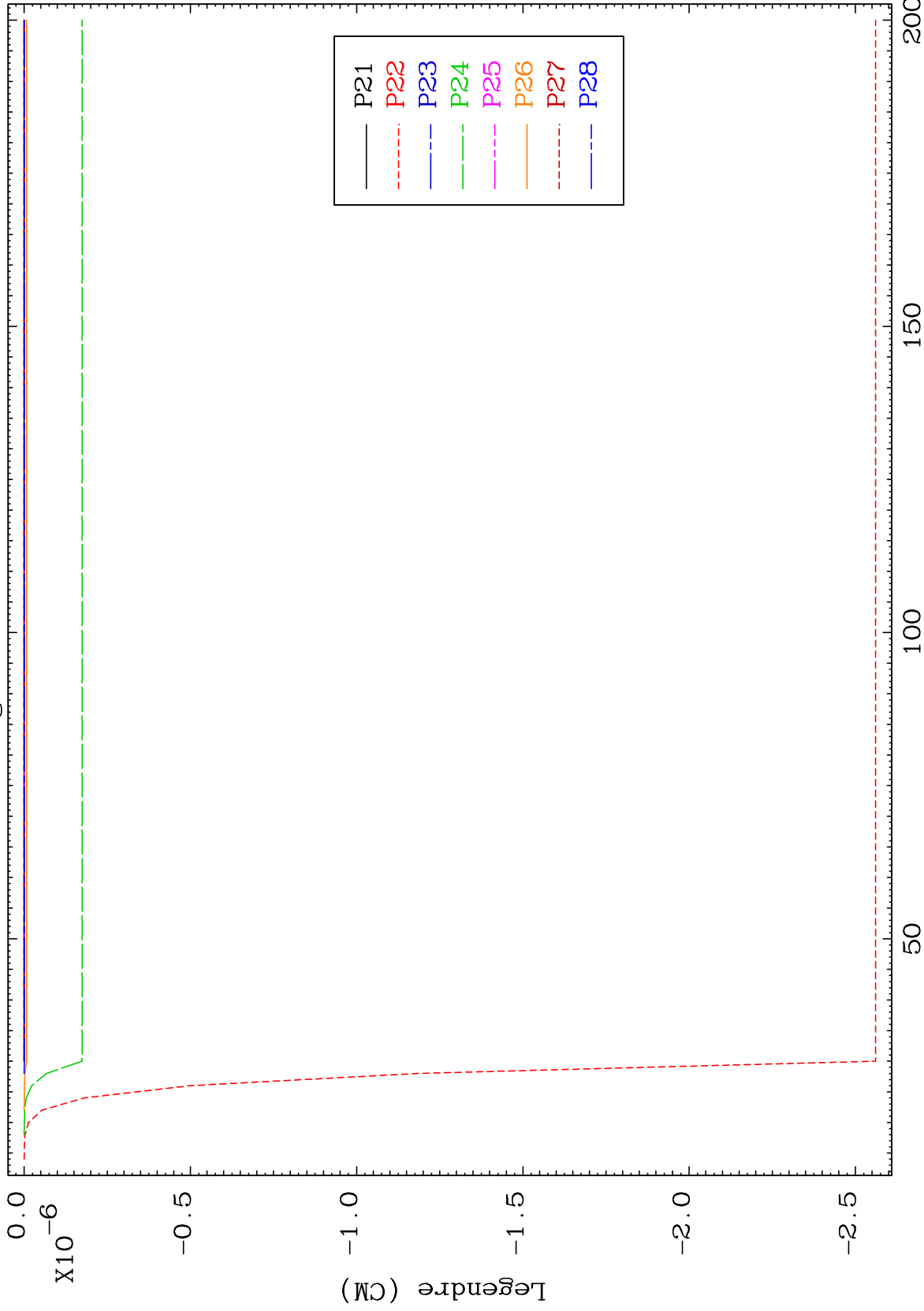
41

64-Gd-158

MAT 6443

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

64-Gd-158



42

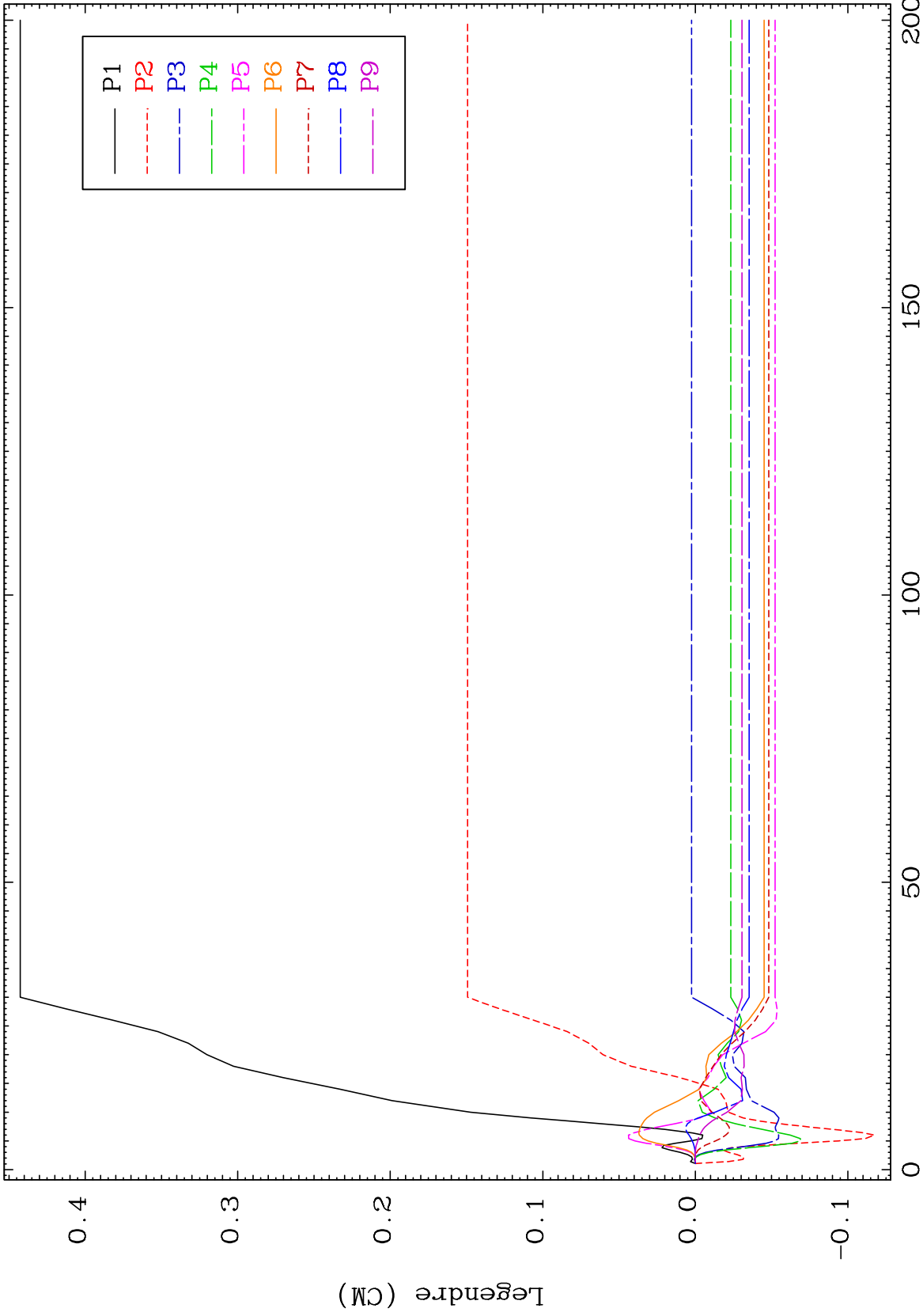
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



43

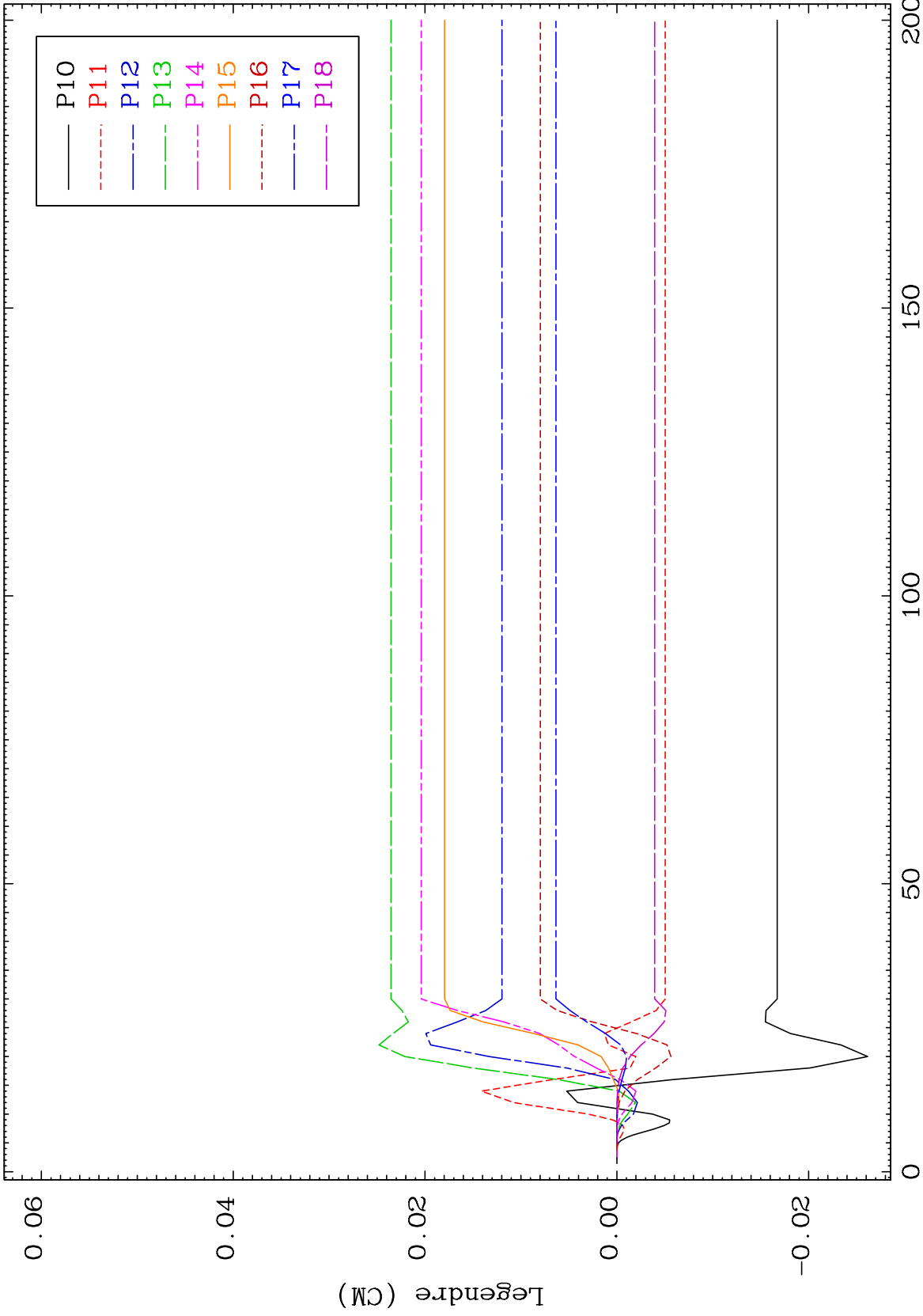
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



44

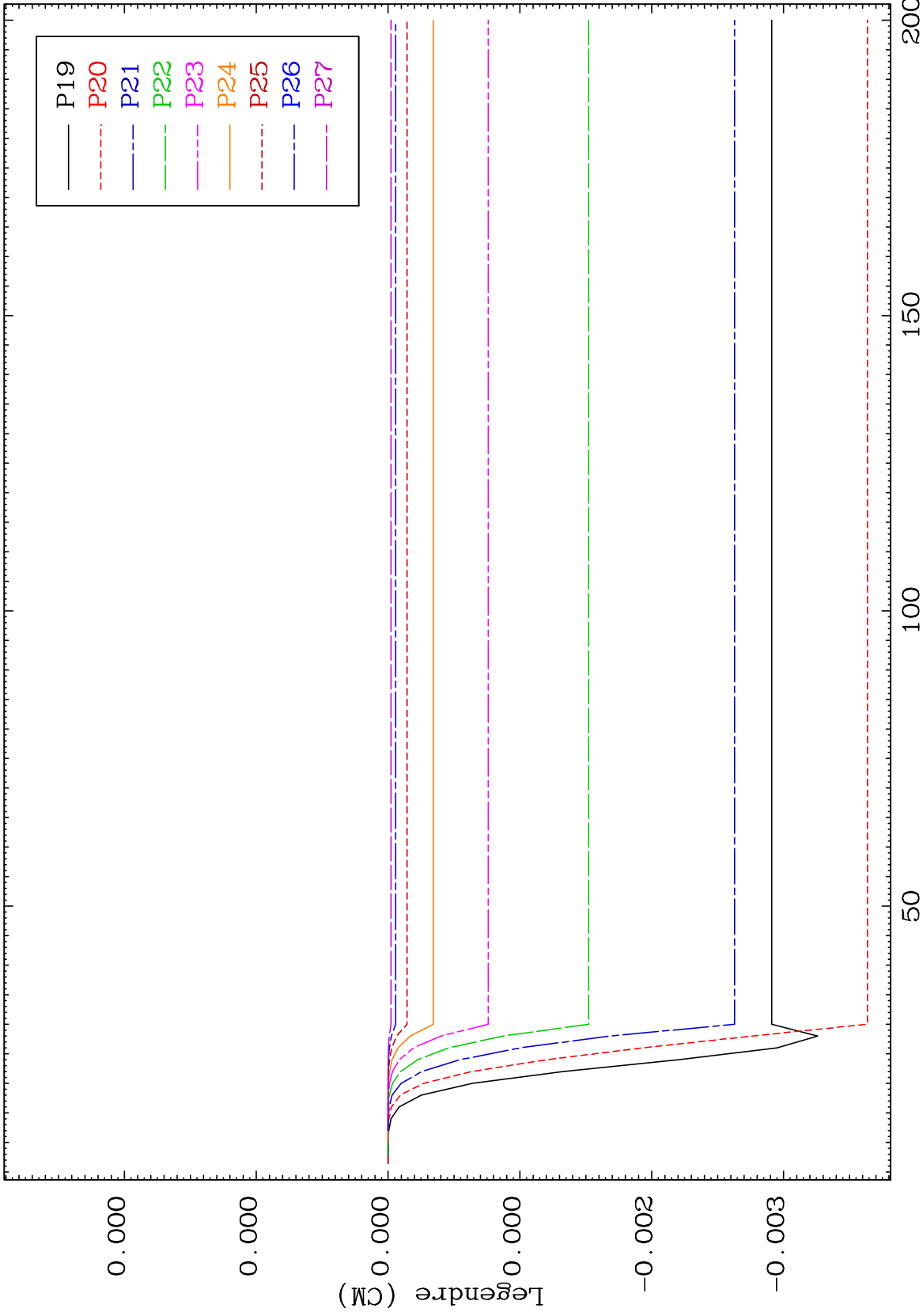
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158

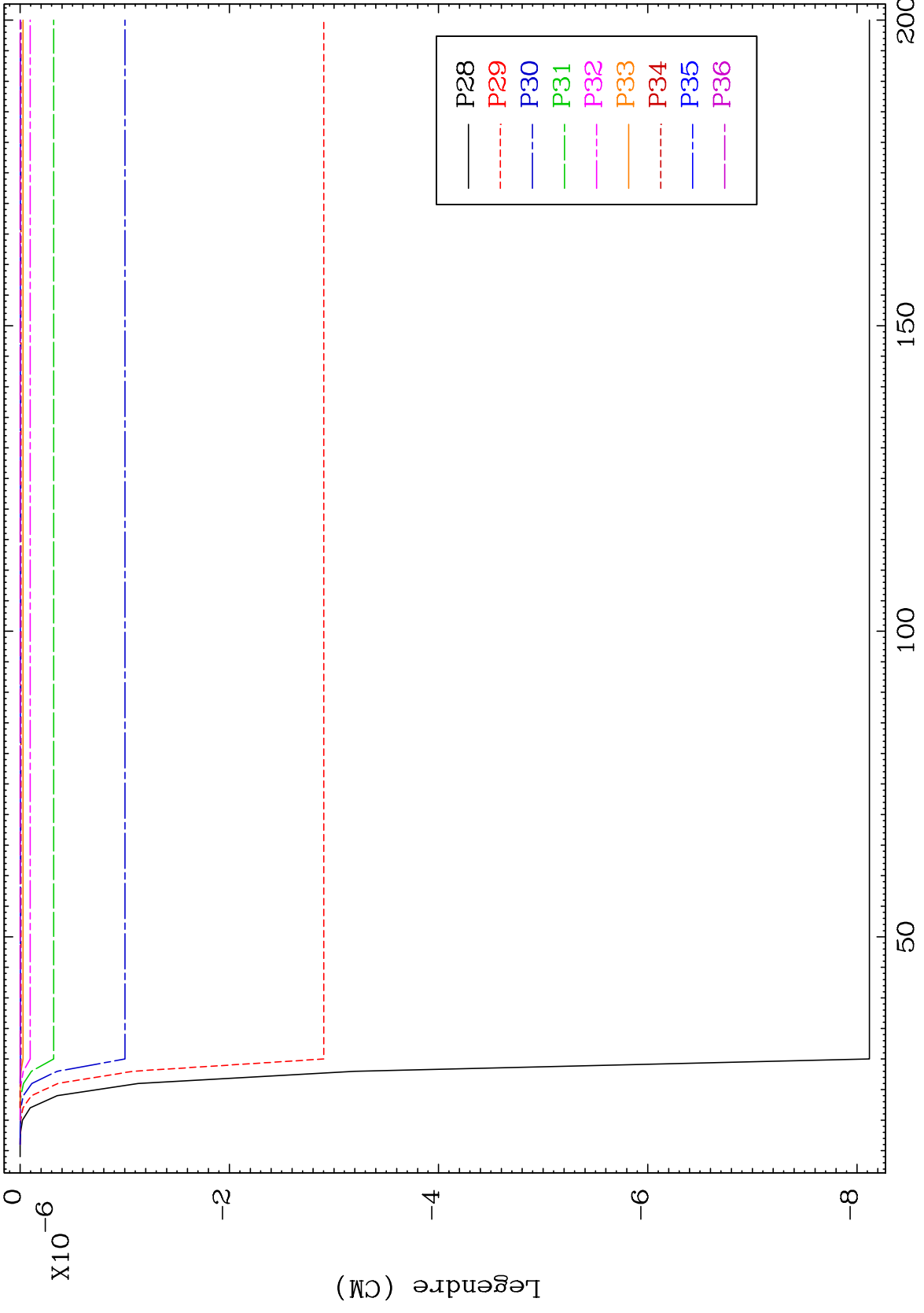


45

Incident Energy (MeV)

64-Gd-158

MAT 6443 MT= 57 (n,n') Level Legendre Coefficients 64-Gd-158

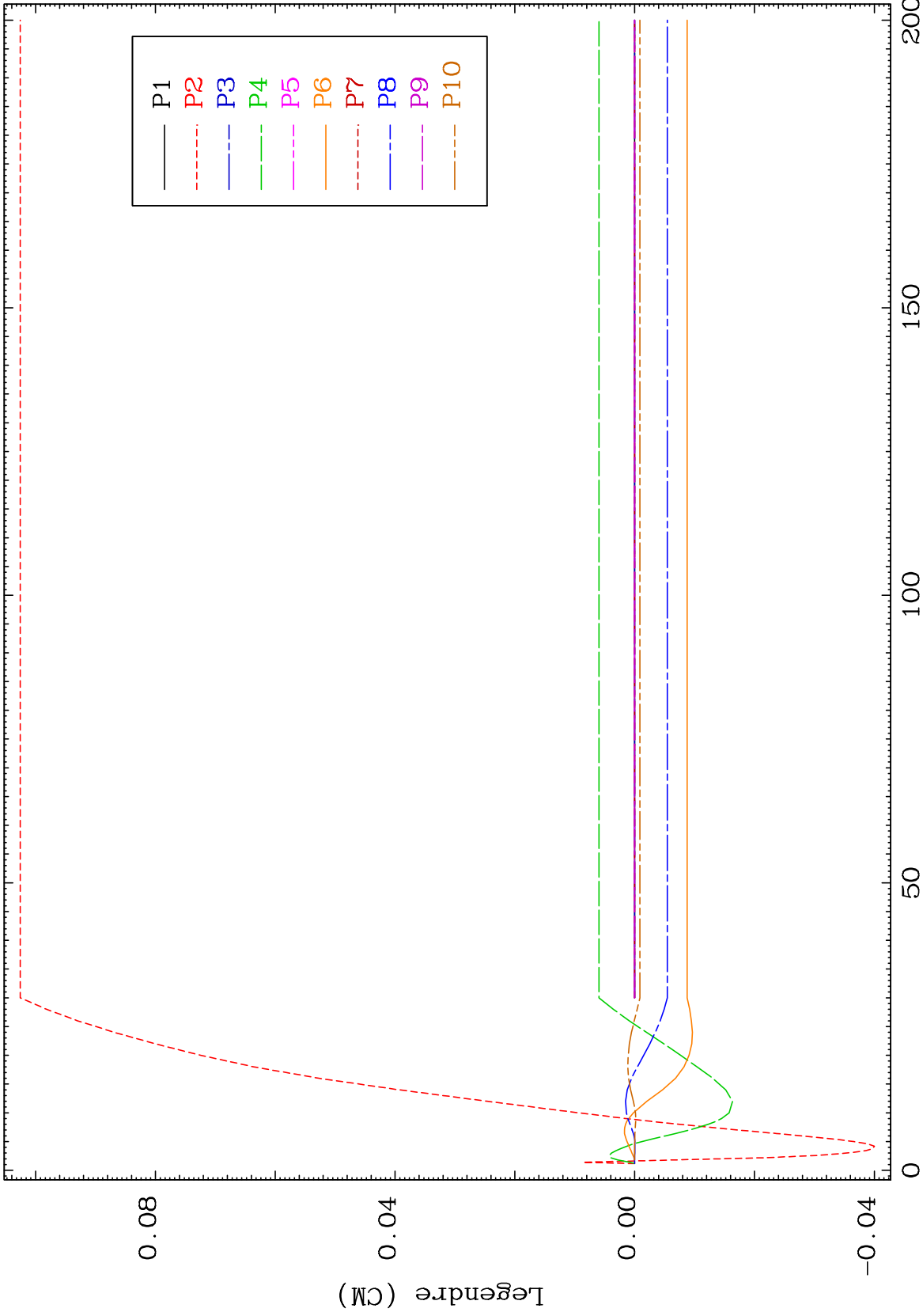


46 64-Gd-158

MAT 6443

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

64-Gd-158



47

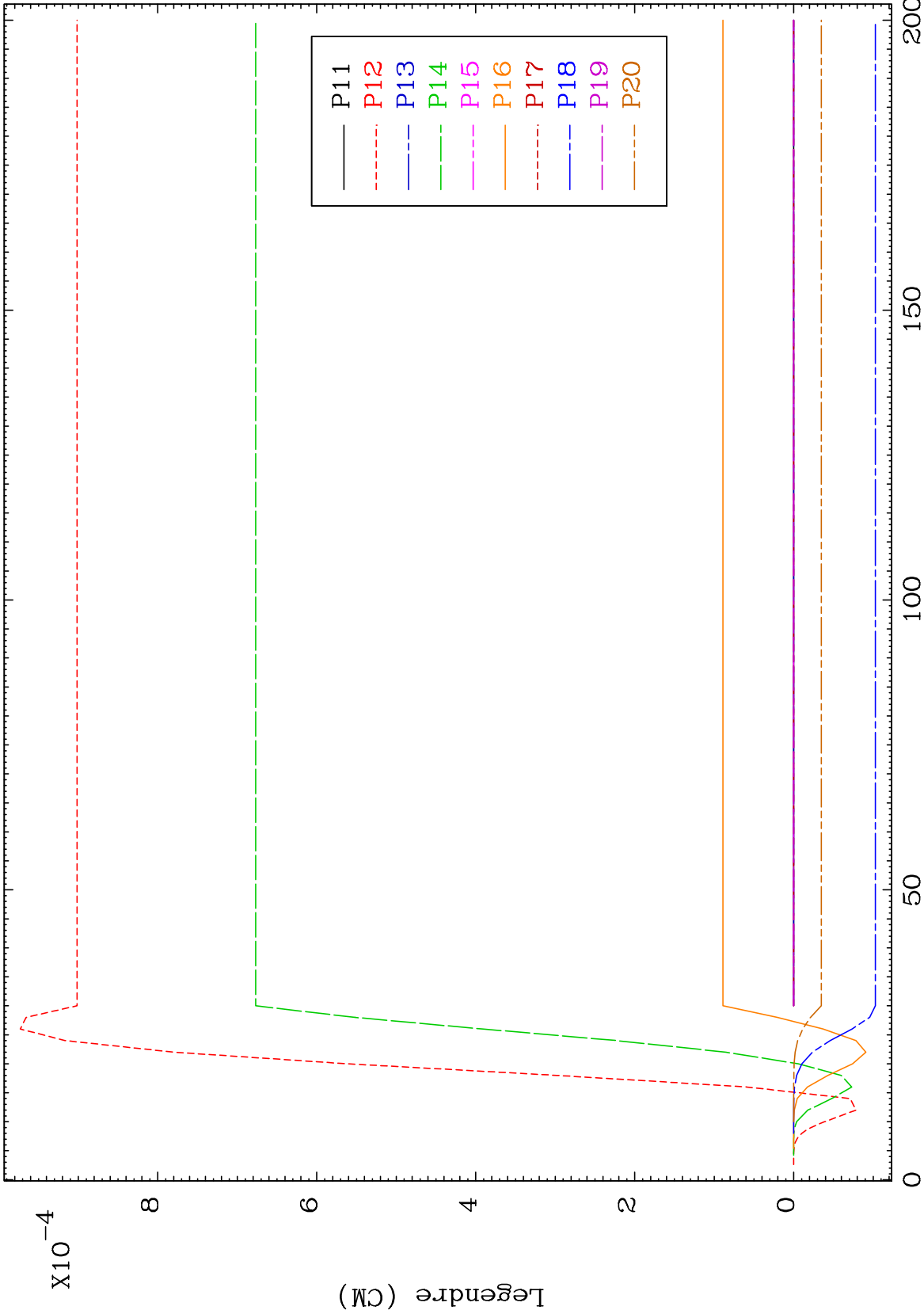
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



48

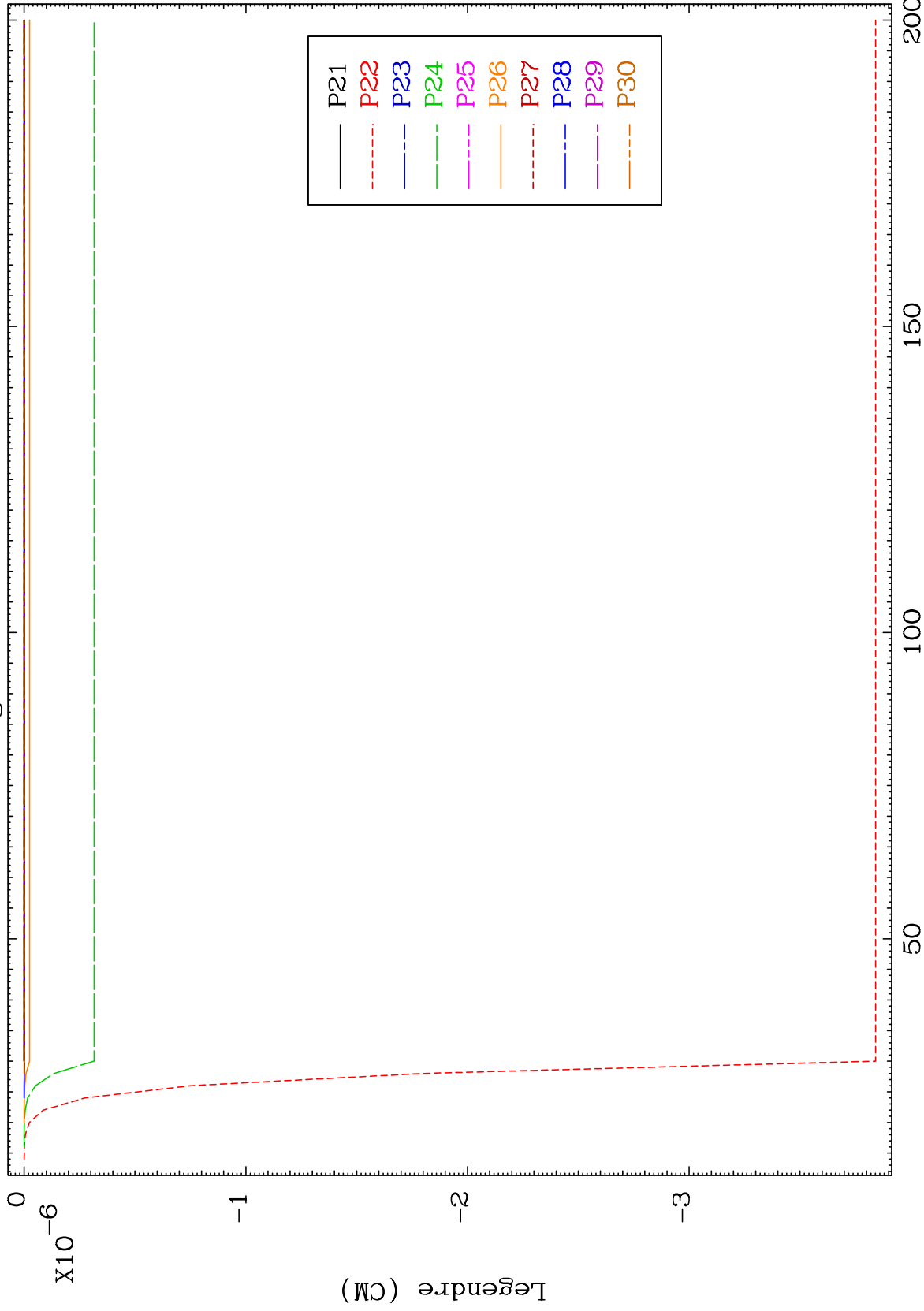
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



49

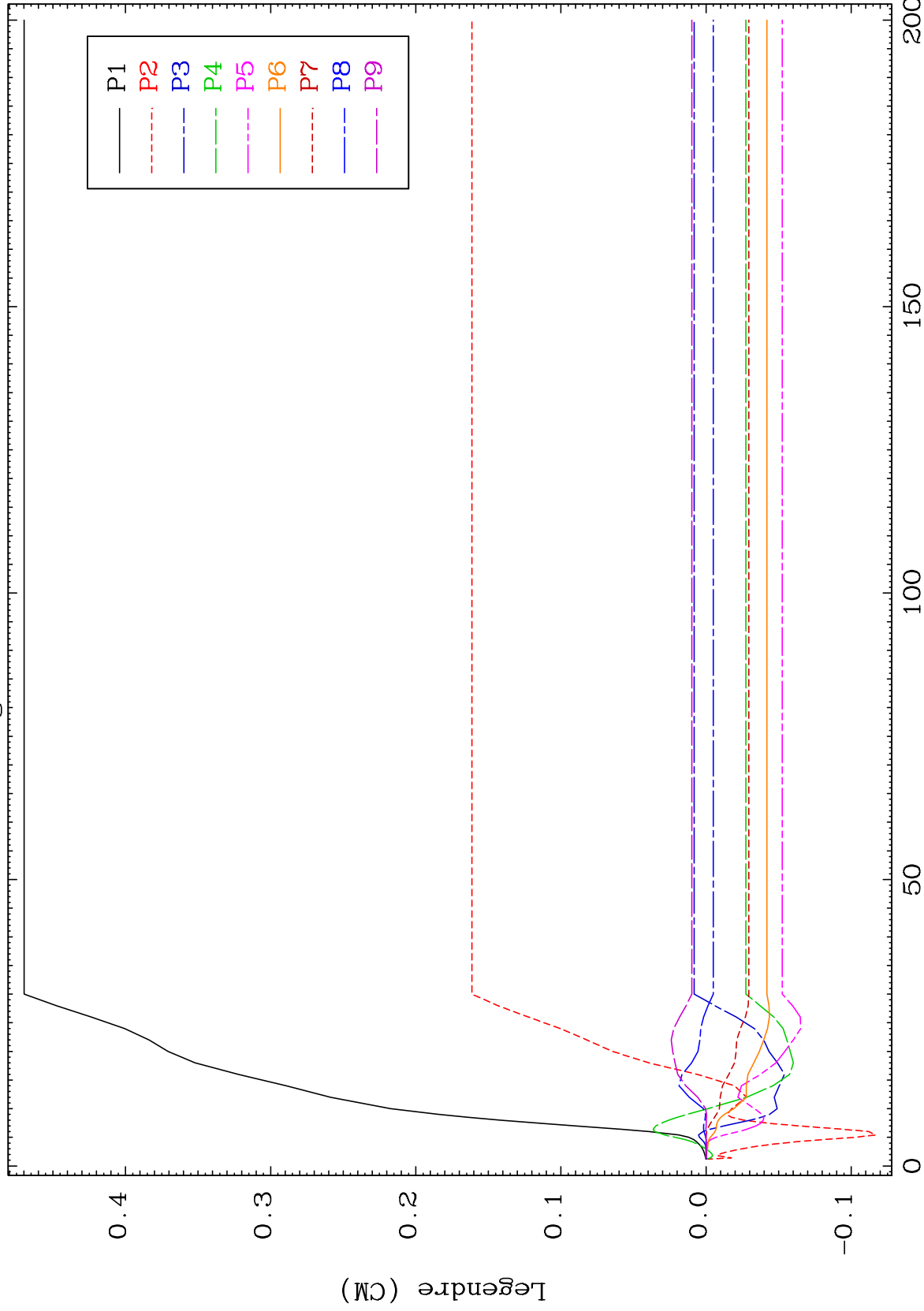
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



64-Gd-158

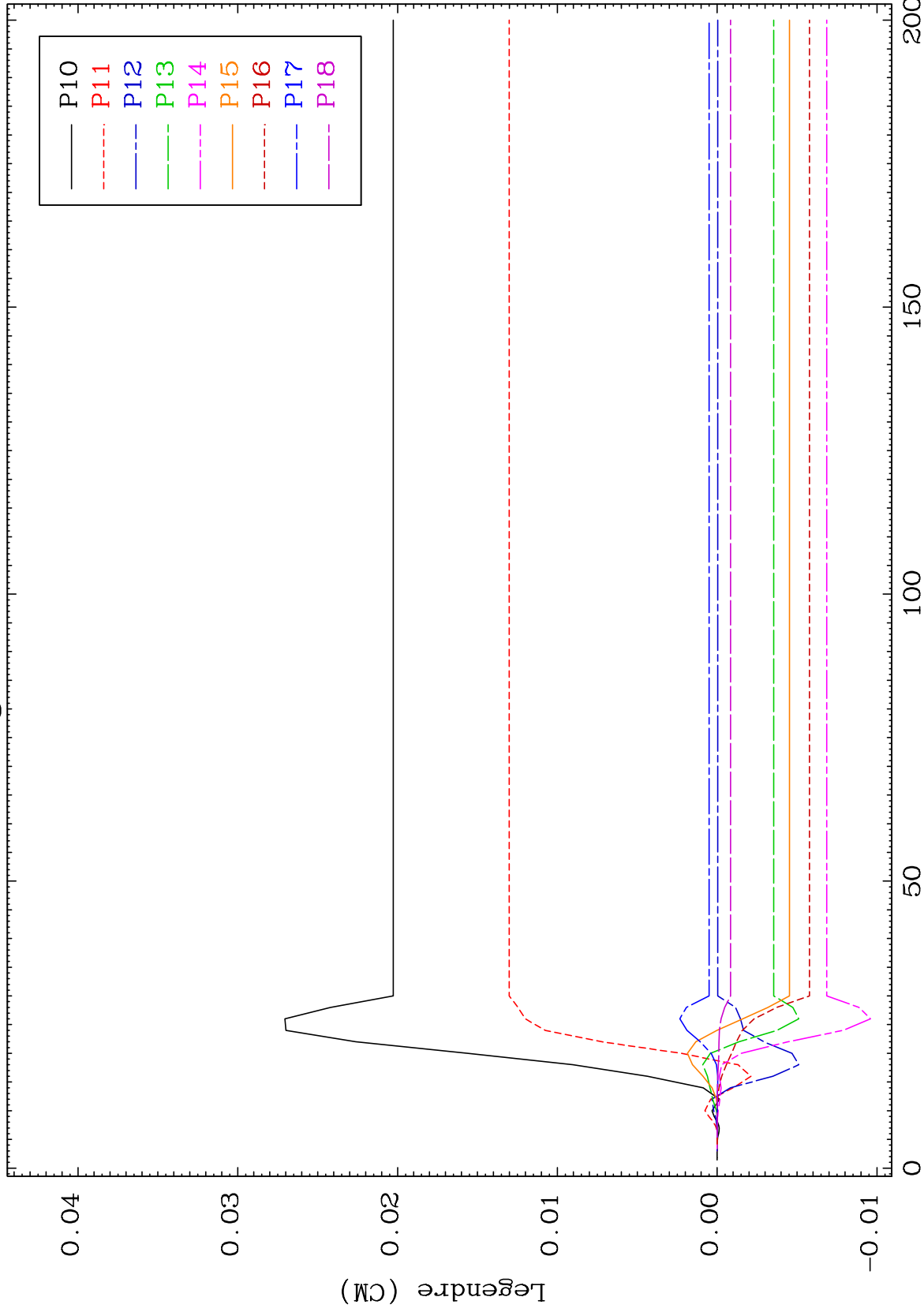
Incident Energy (MeV)

Legendre (CM)

MAT 6443

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

64-Gd-158



51

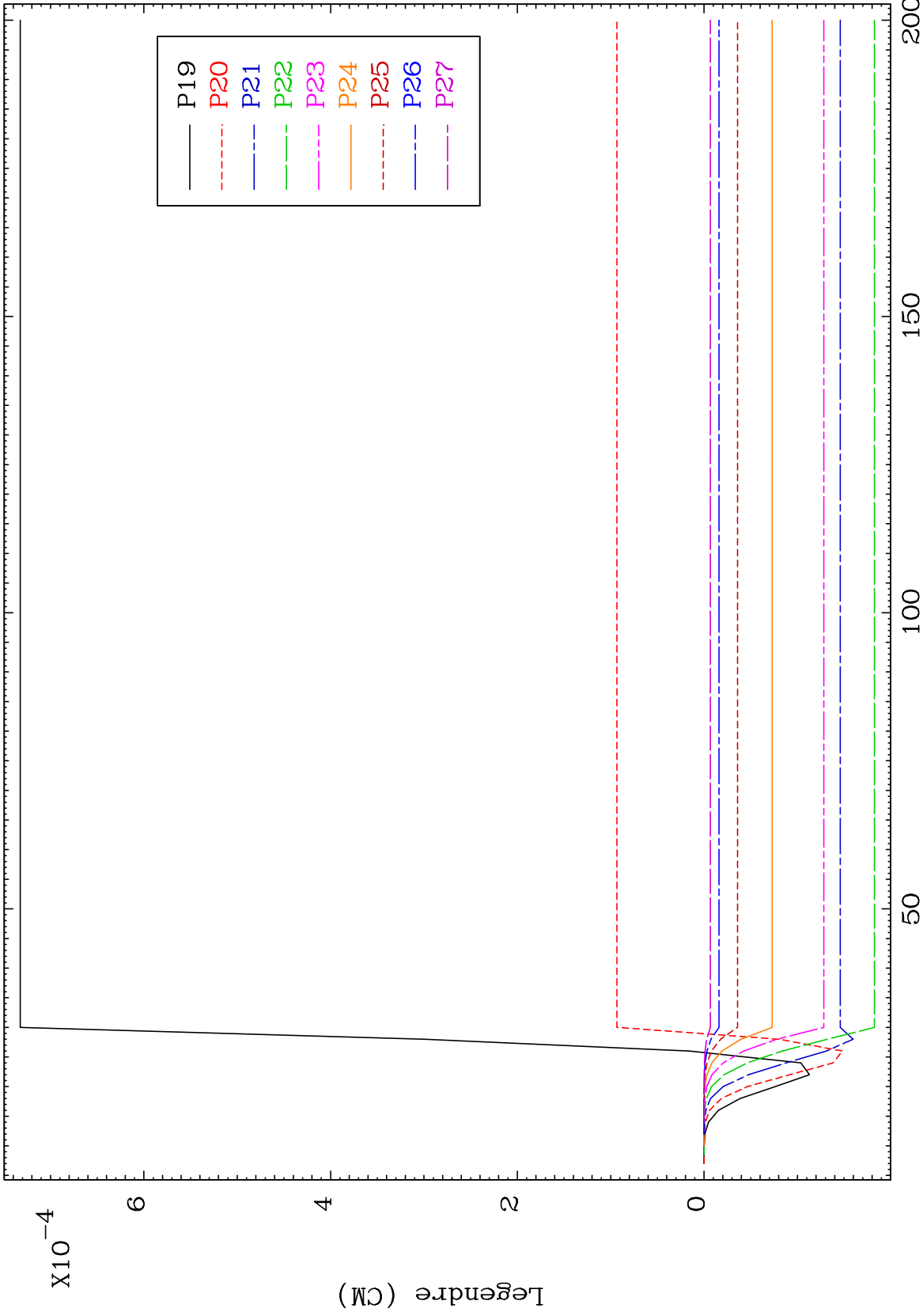
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



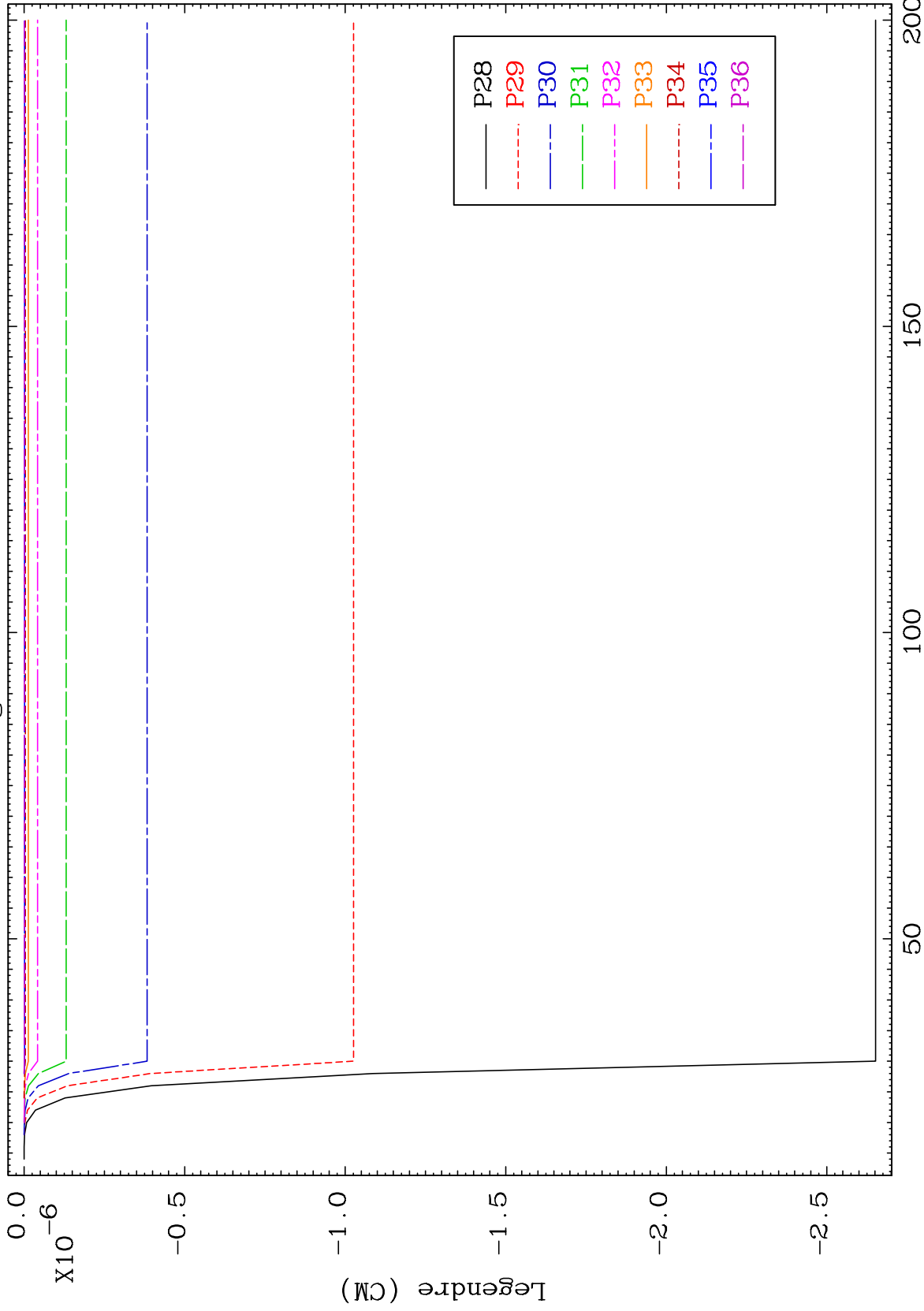
52

64-Gd-158

MAT 6443

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

64-Gd-158



53

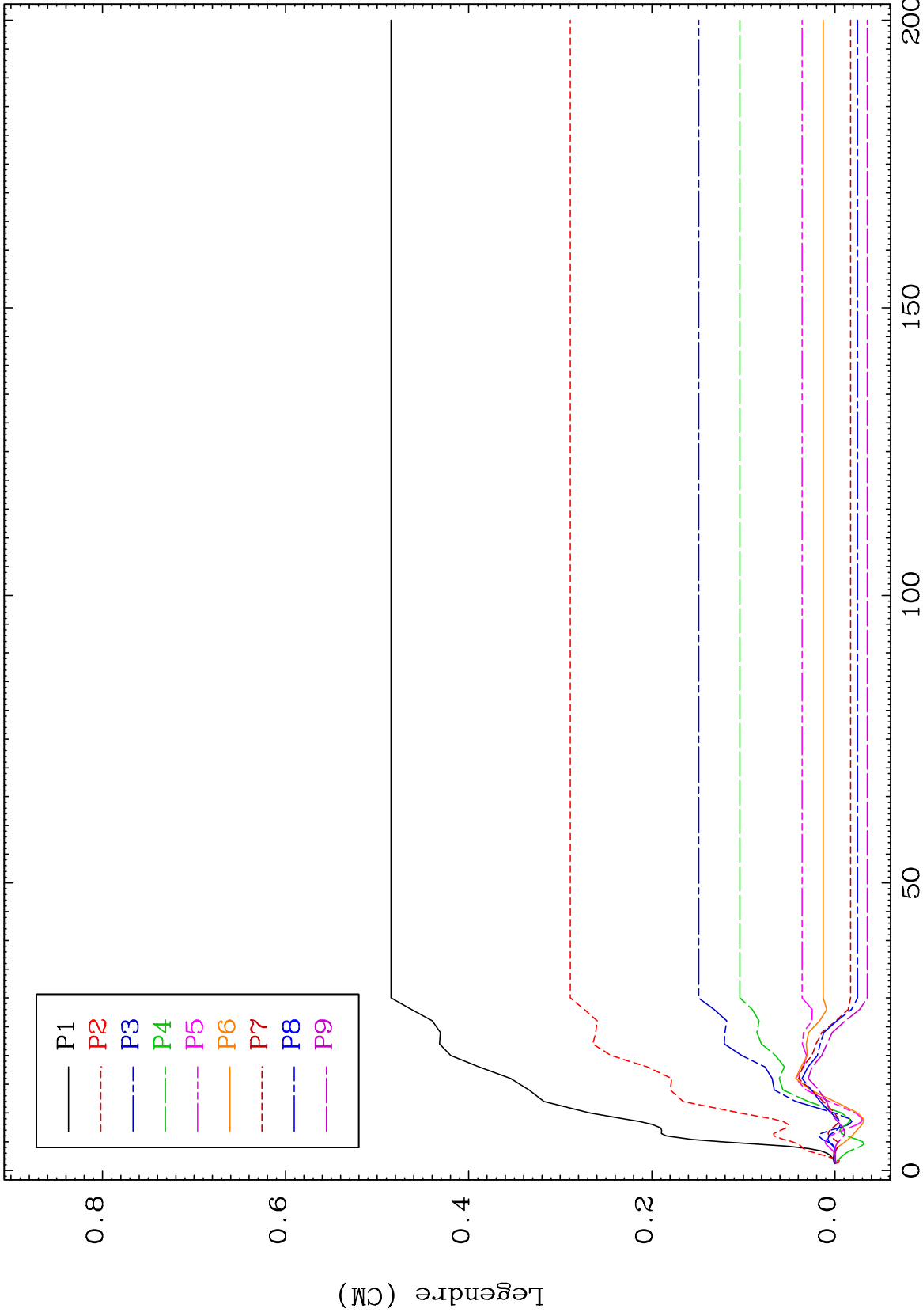
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



54

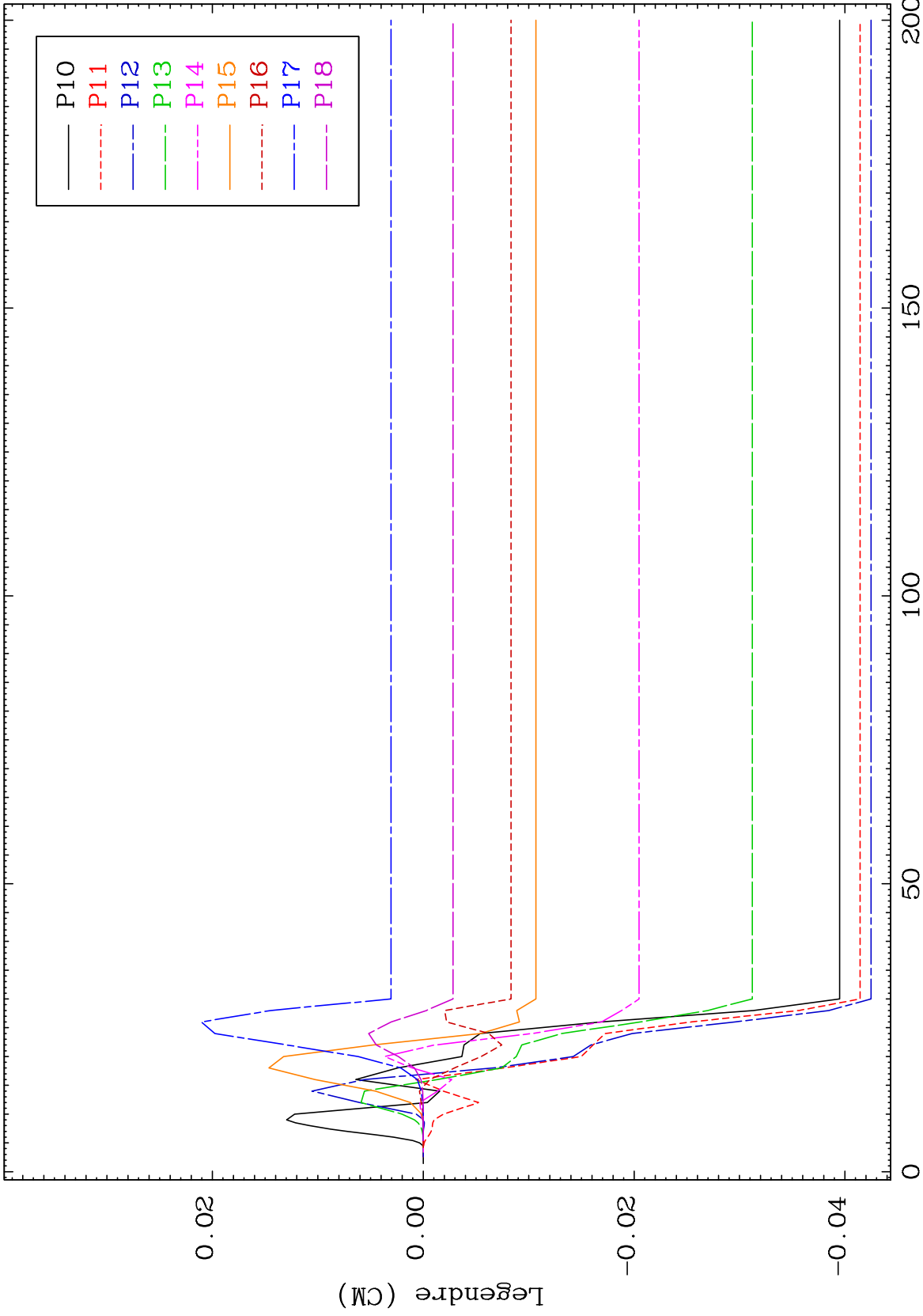
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



55

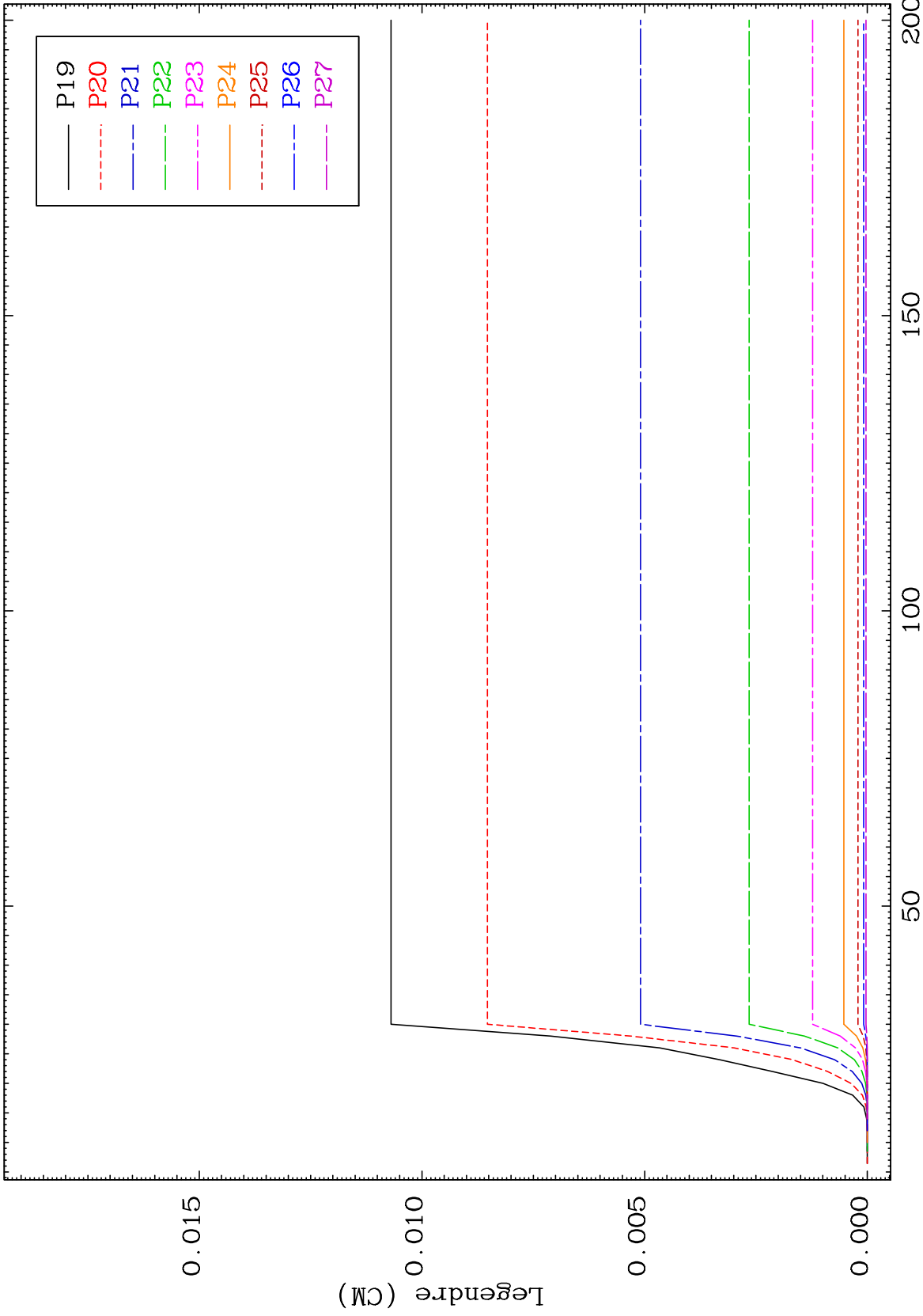
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



56

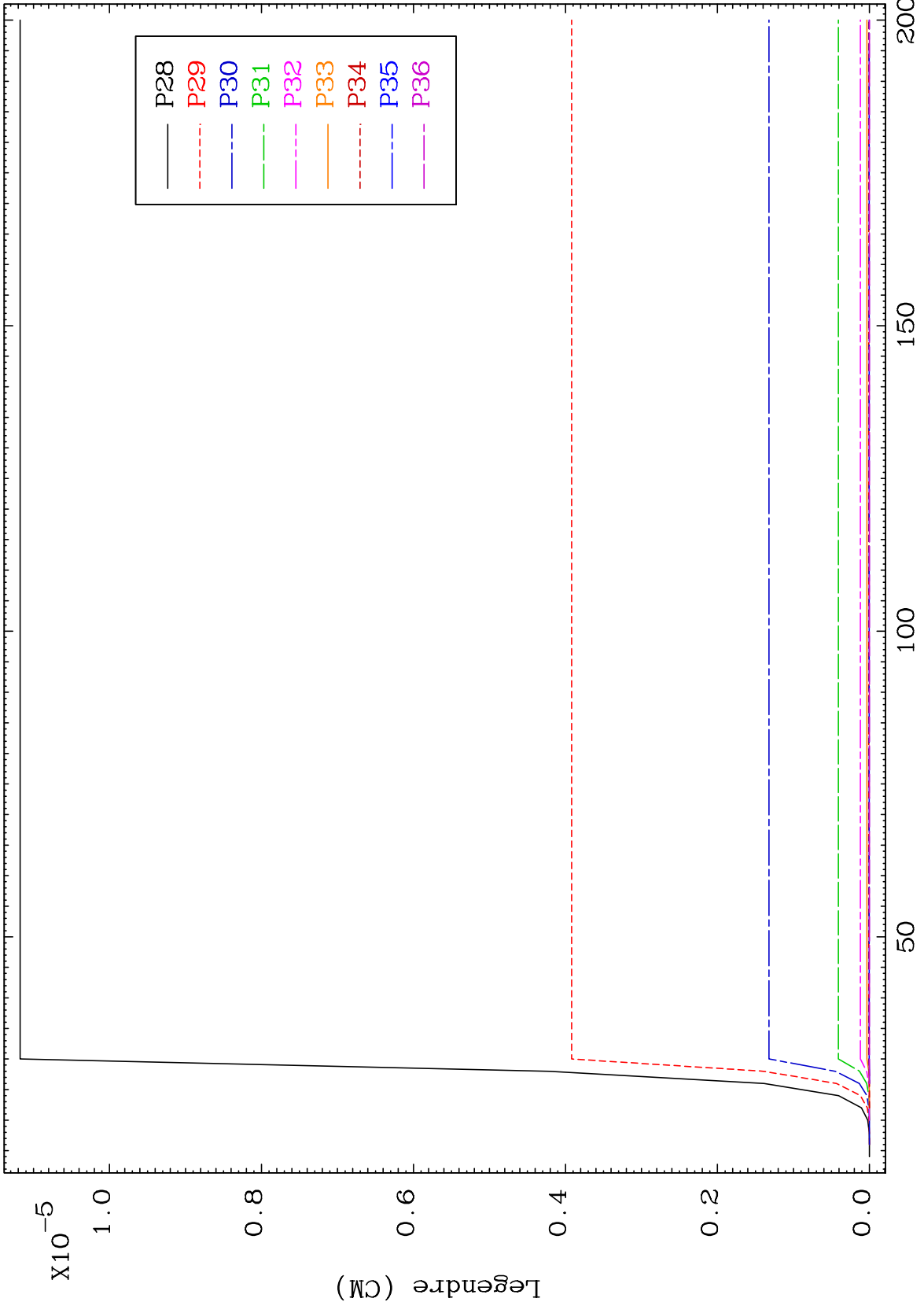
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



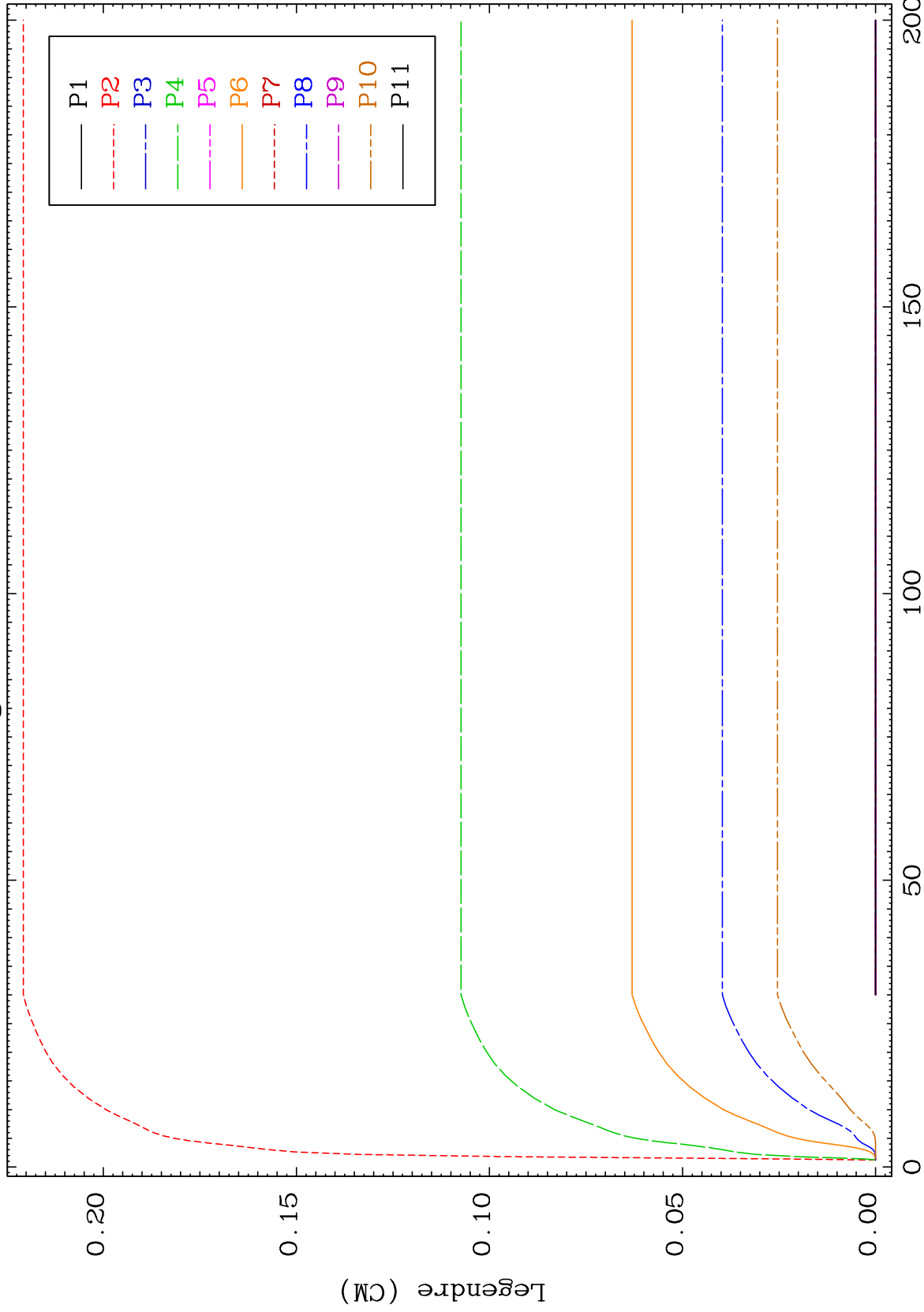
57

64-Gd-158

MAT 6443

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

64-Gd-158



58

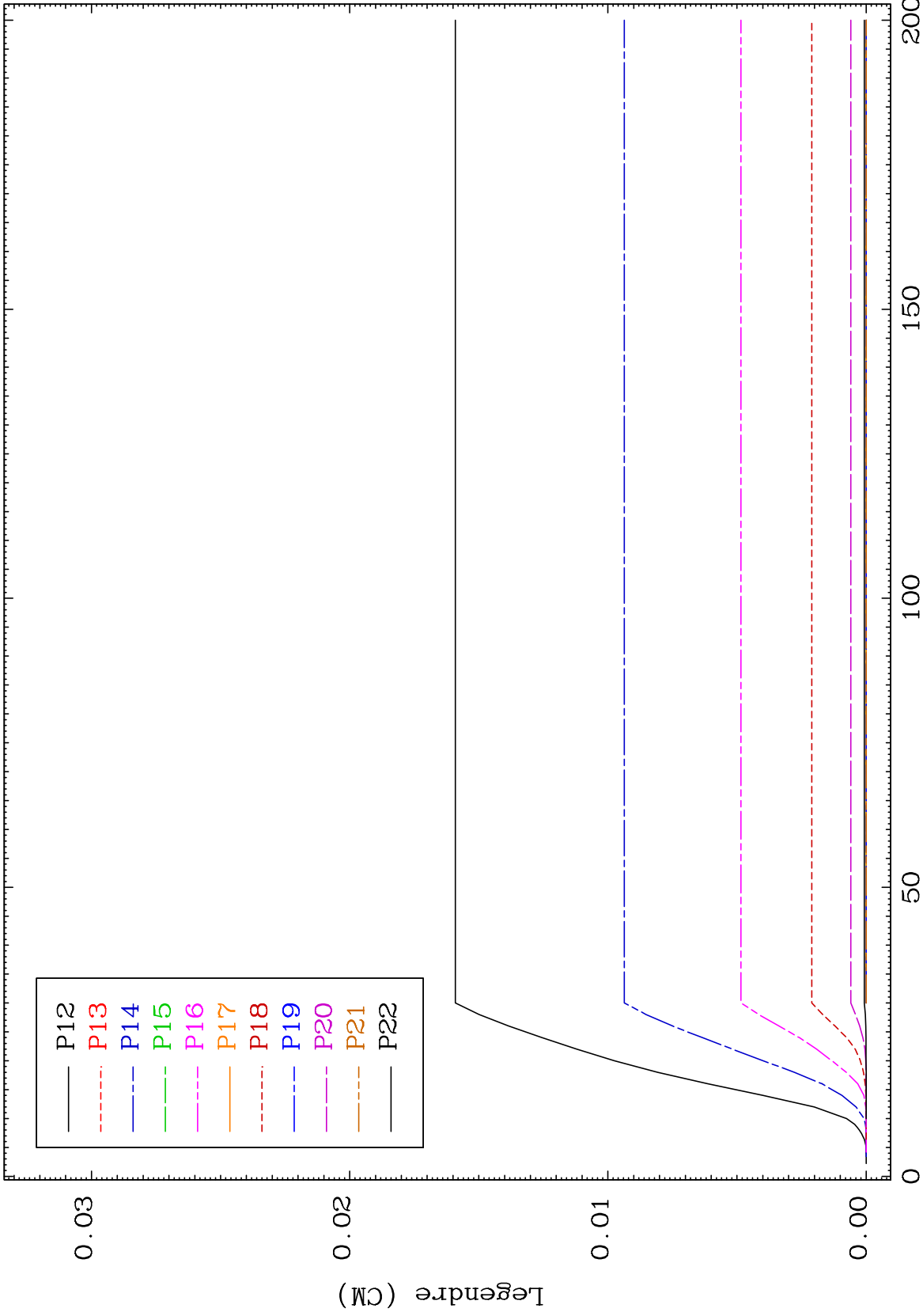
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158

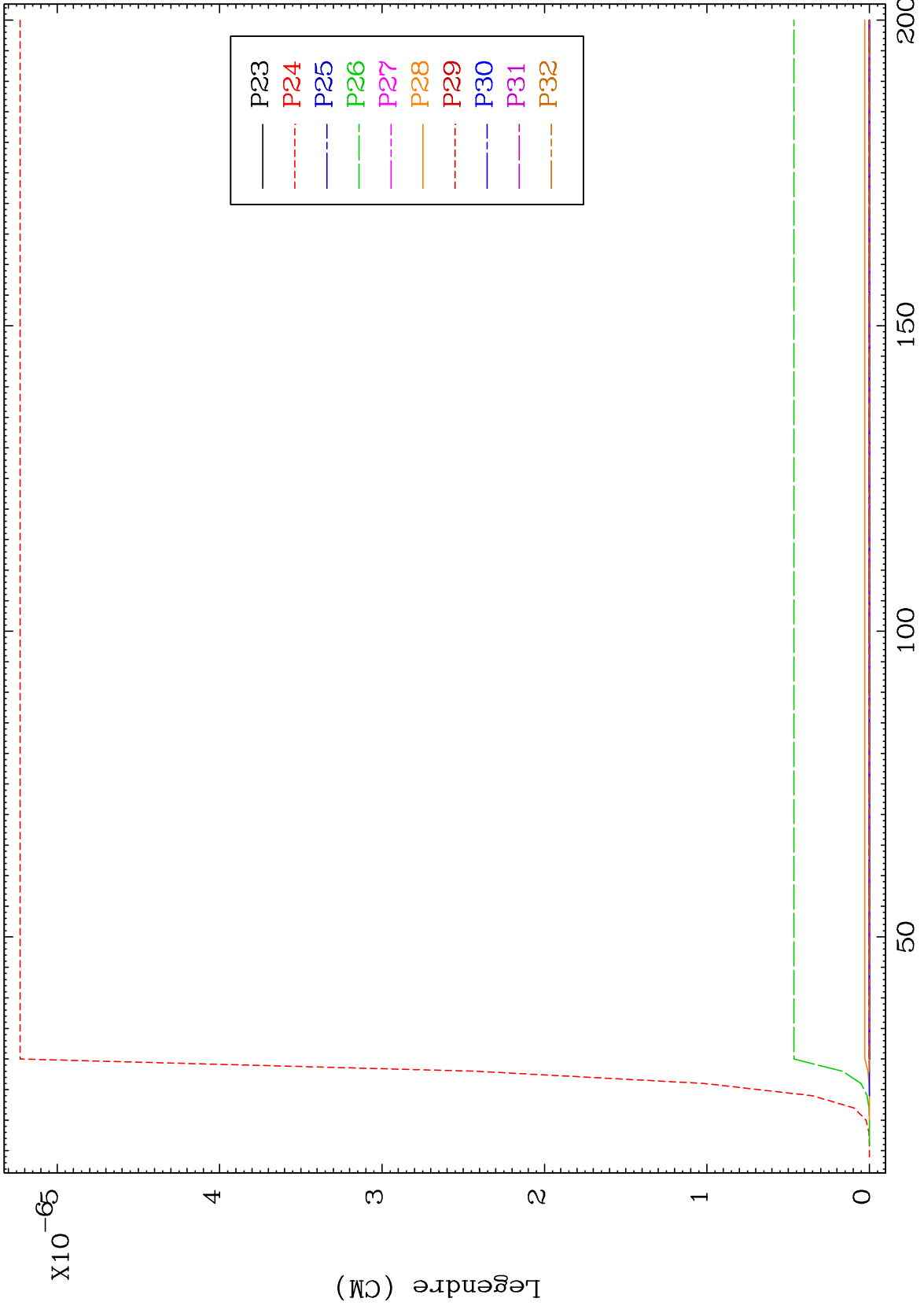


59

Incident Energy (MeV)

64-Gd-158

MAT 6443 MT= 61 (n,n') Level Legendre Coefficients 64-Gd-158

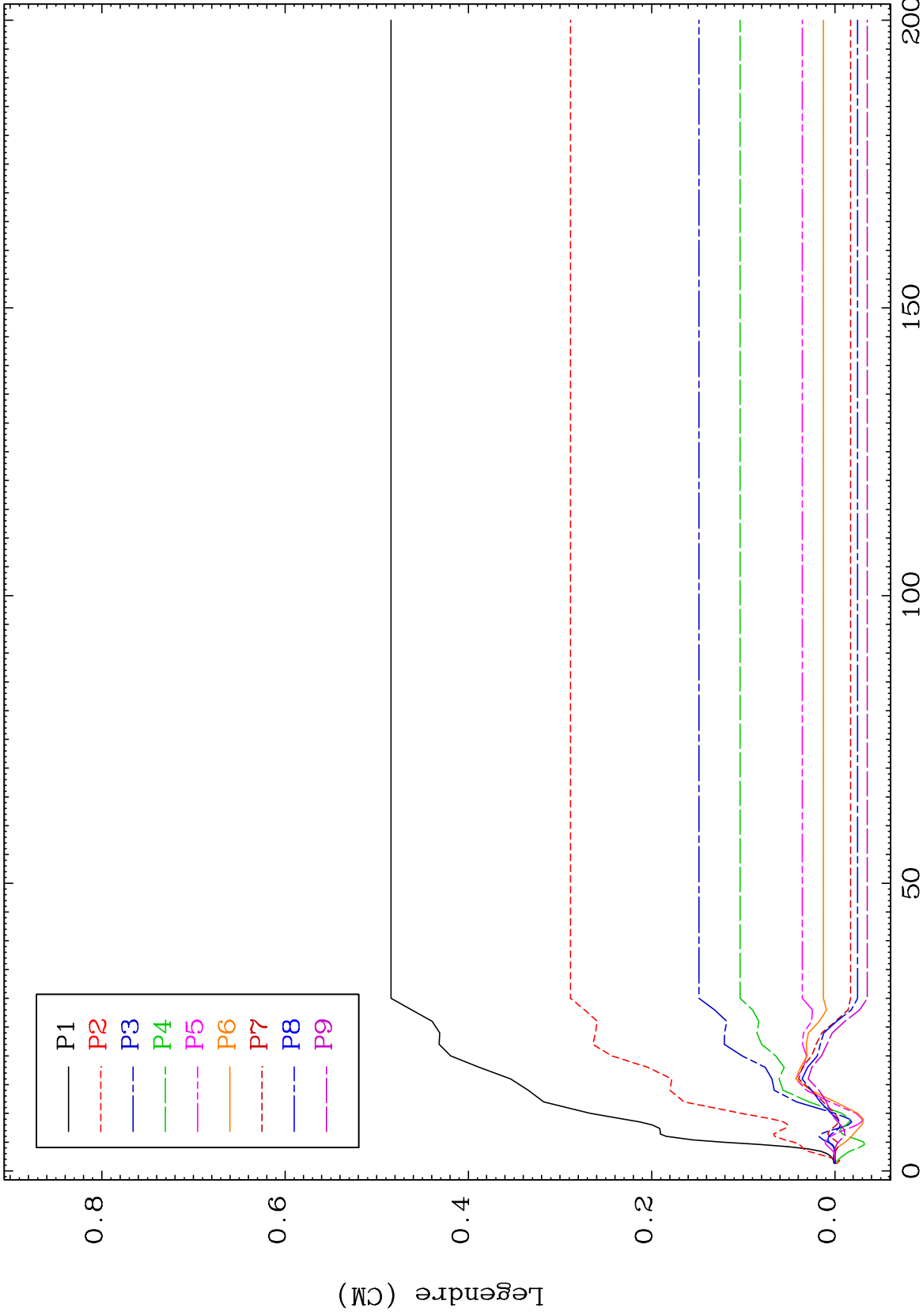


64-Gd-158

MAT 6443

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

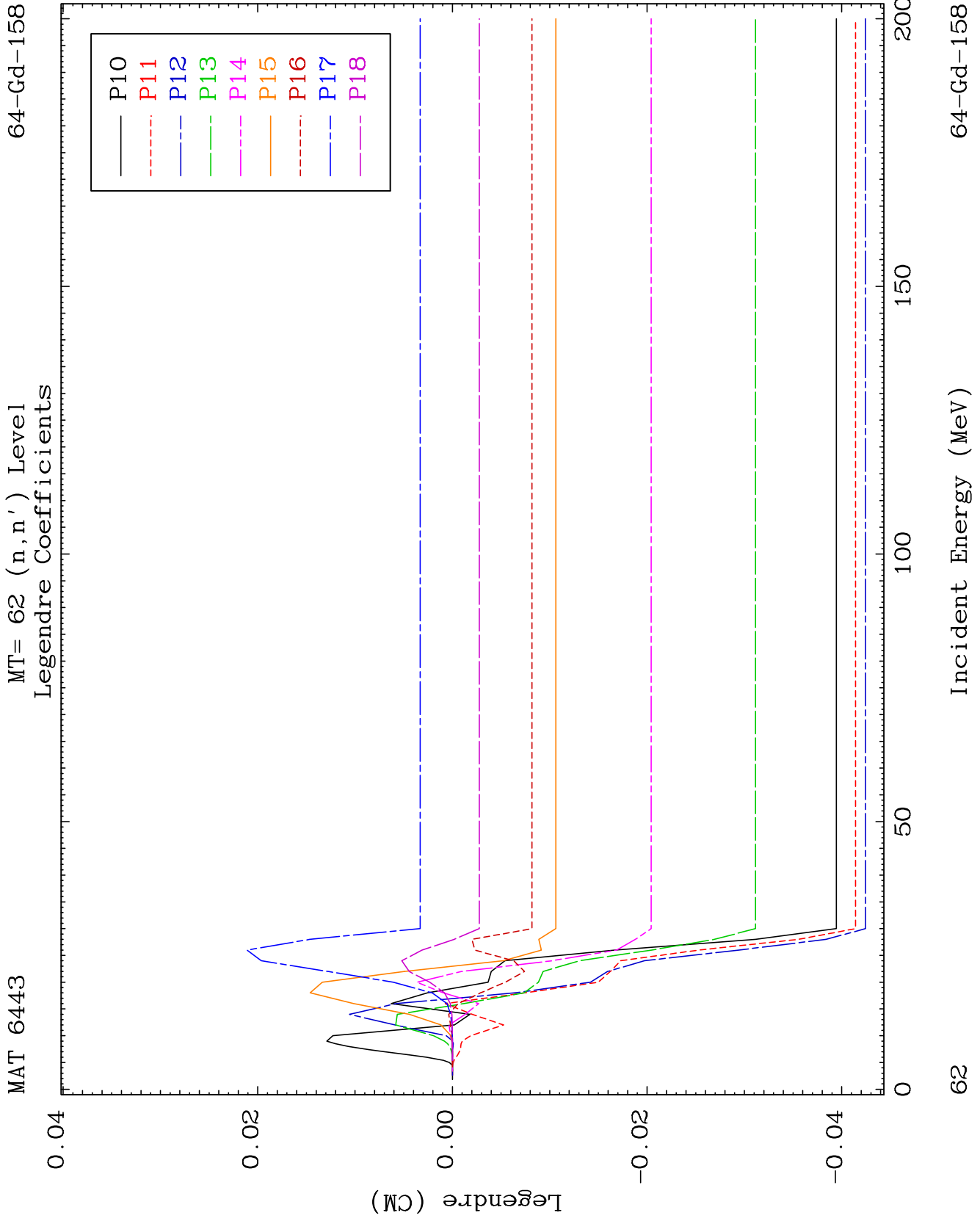
64-Gd-158



61

Incident Energy (MeV)

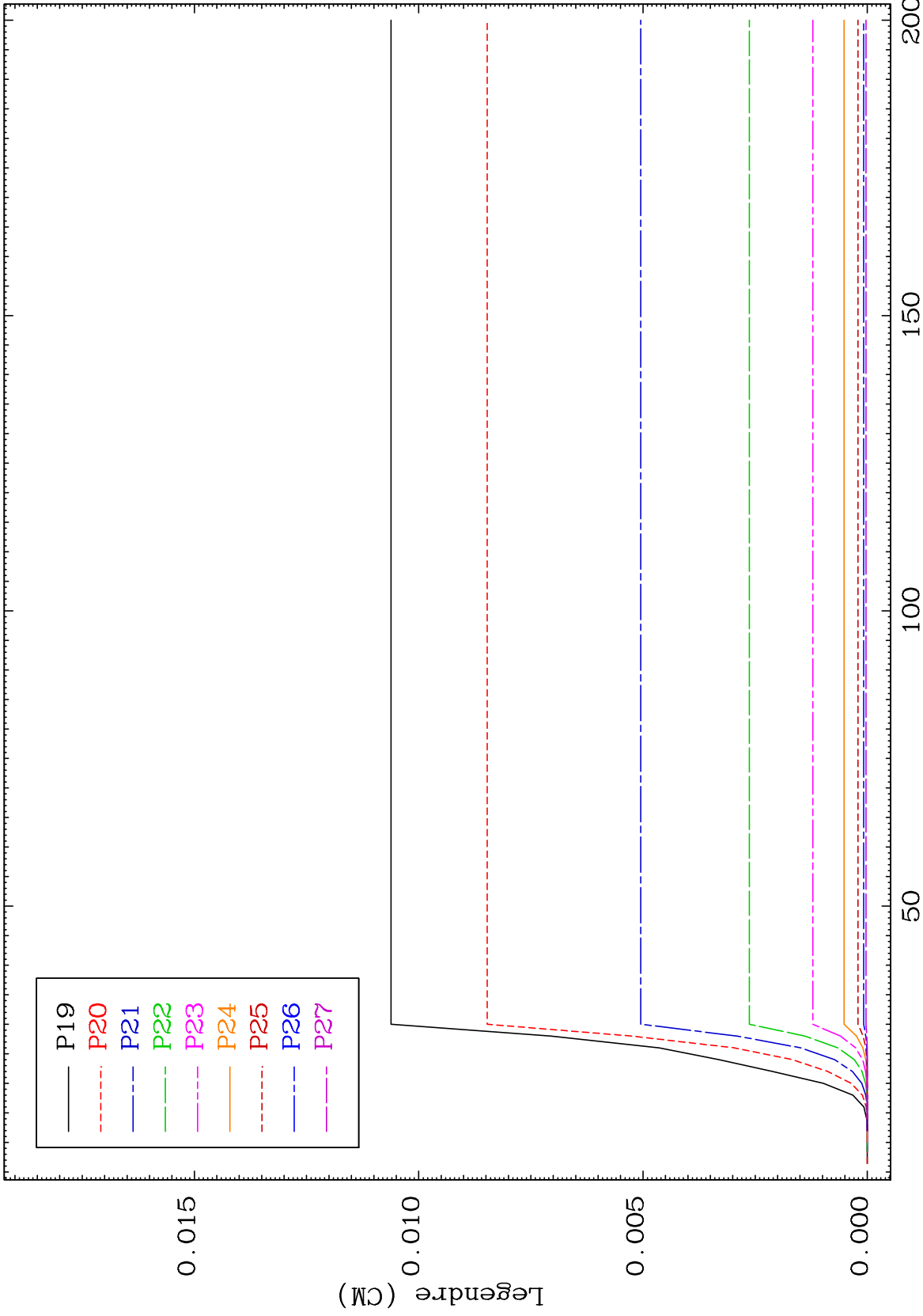
64-Gd-158



MAT 6443

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

64-Gd-158



63

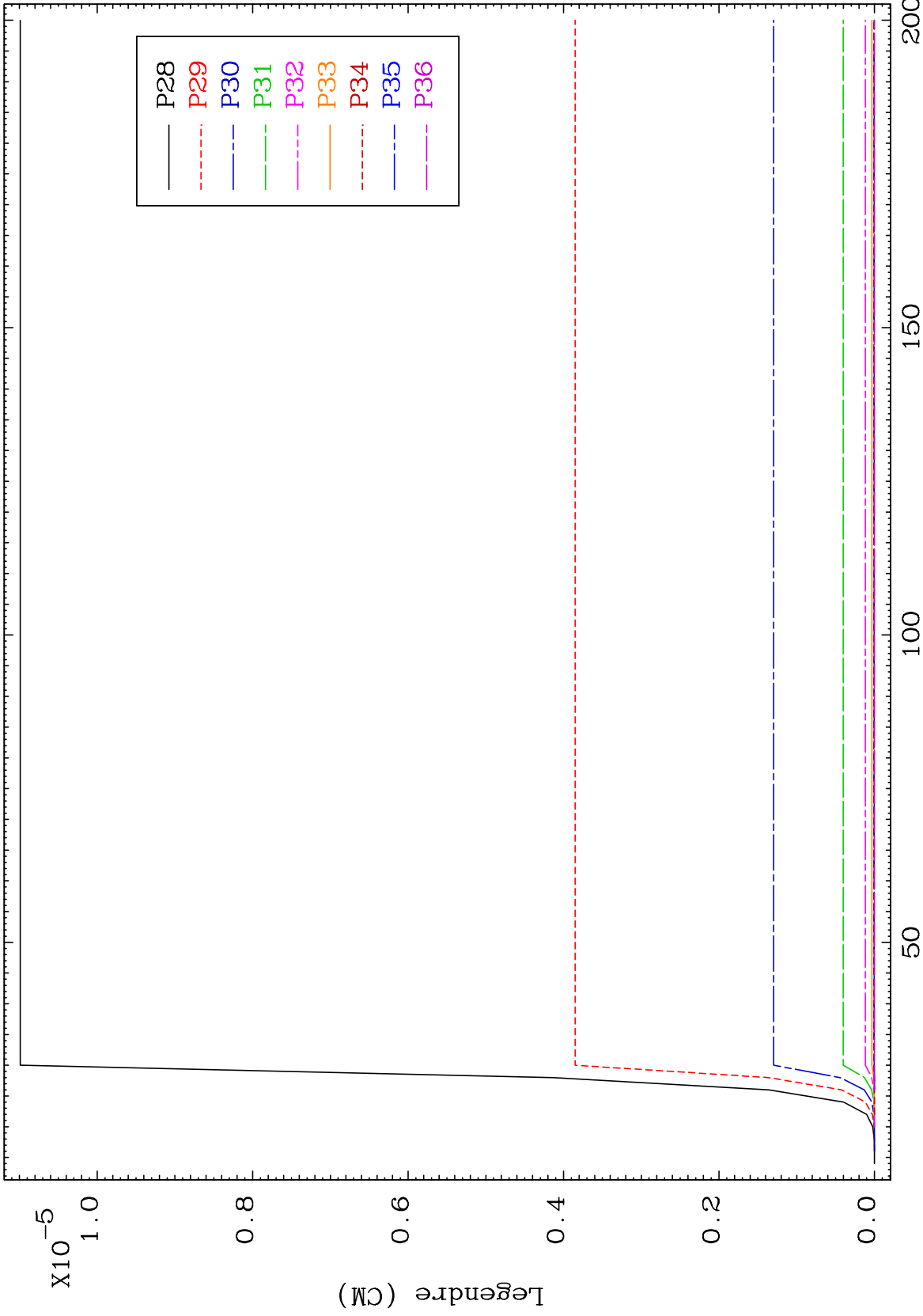
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



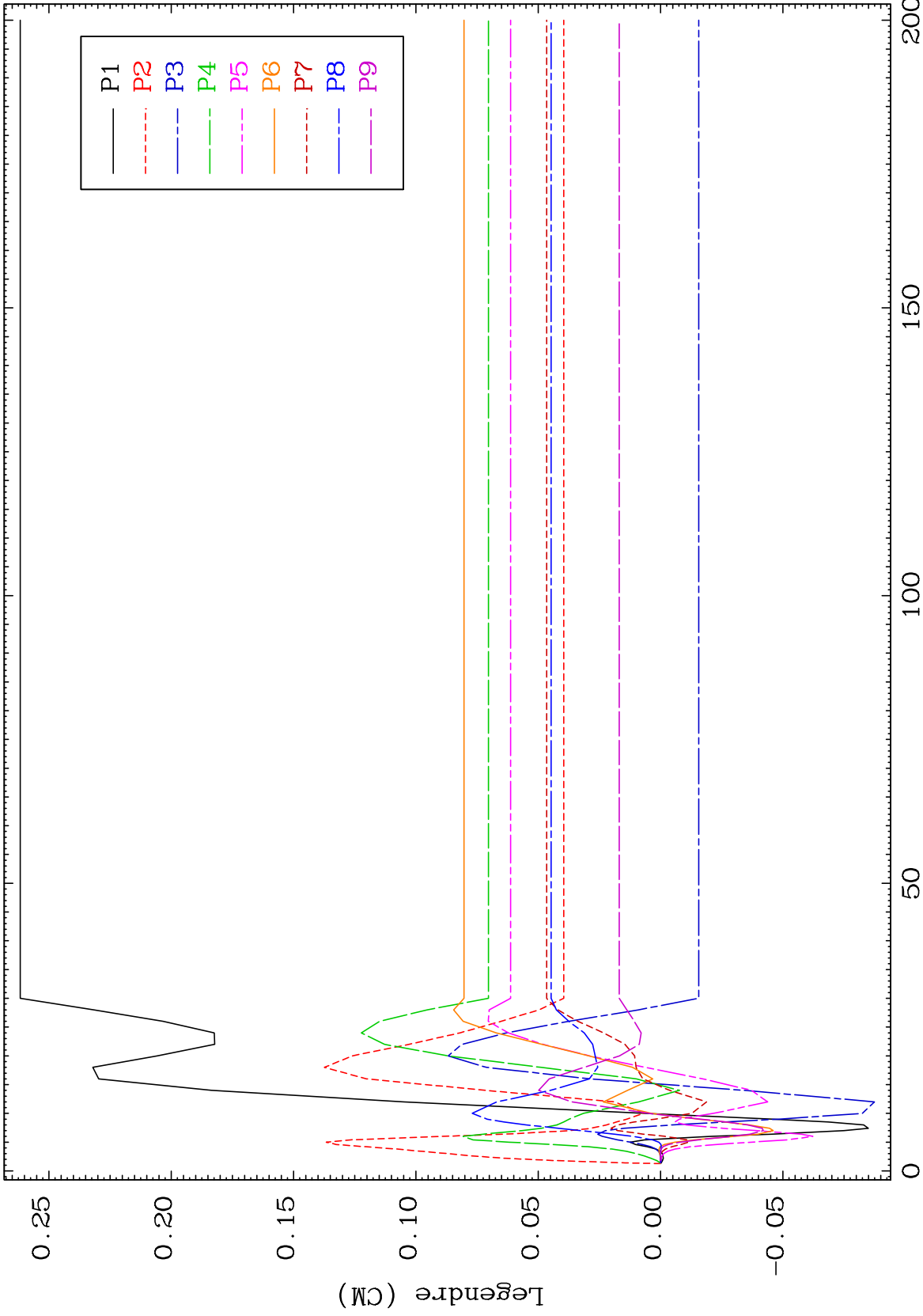
64

64-Gd-158

MAT 6443

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

64-Gd-158



65

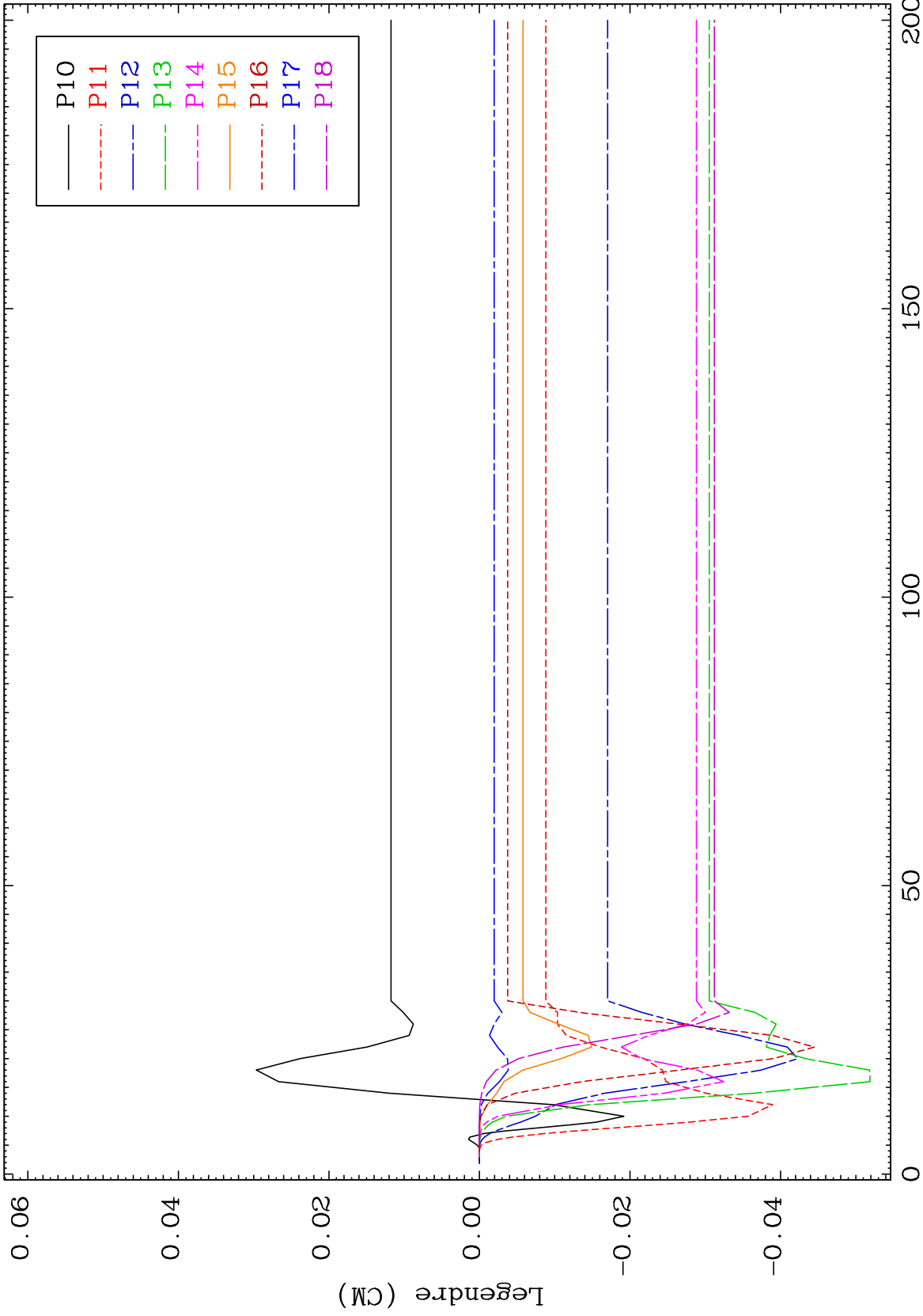
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



66

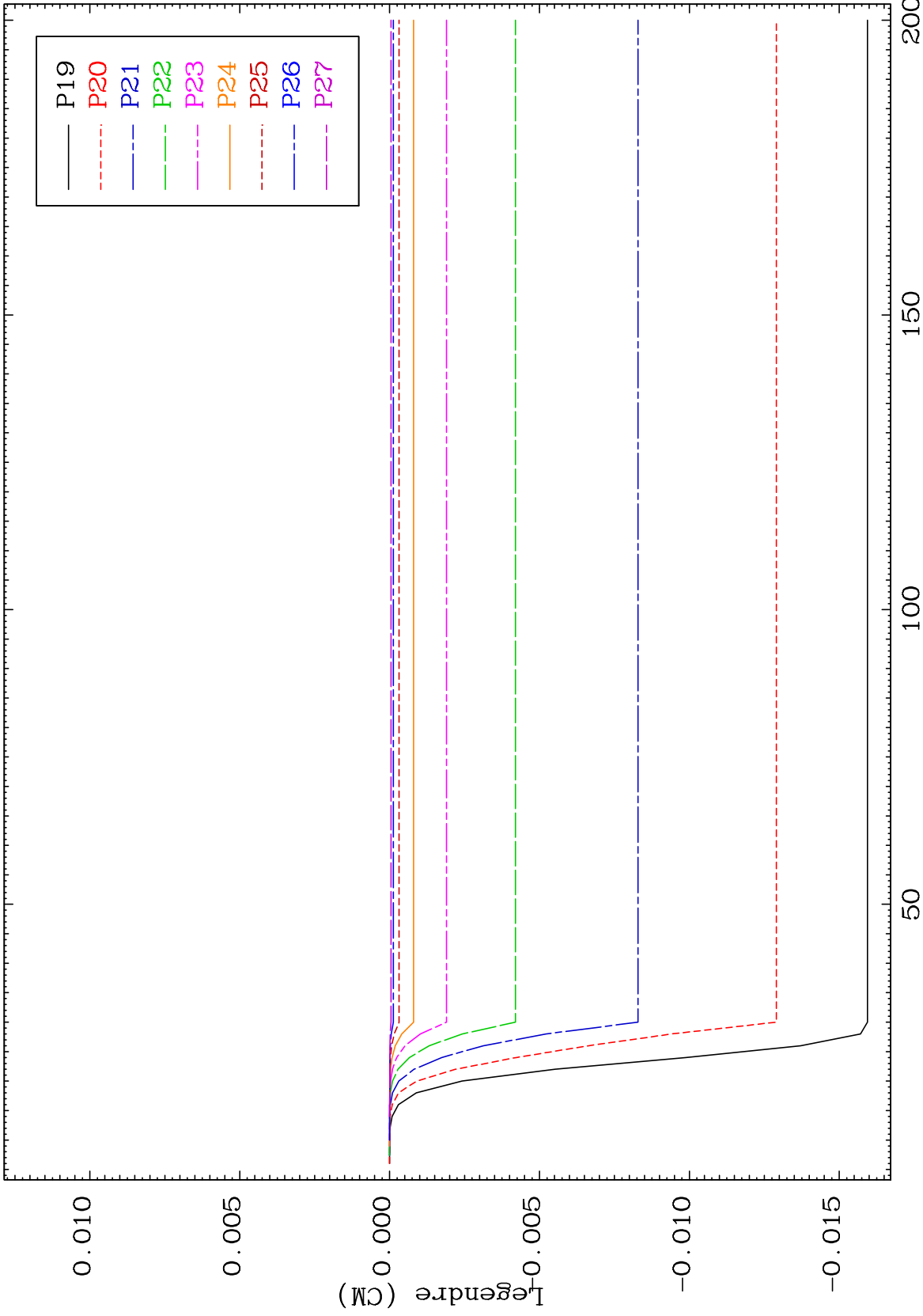
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



67

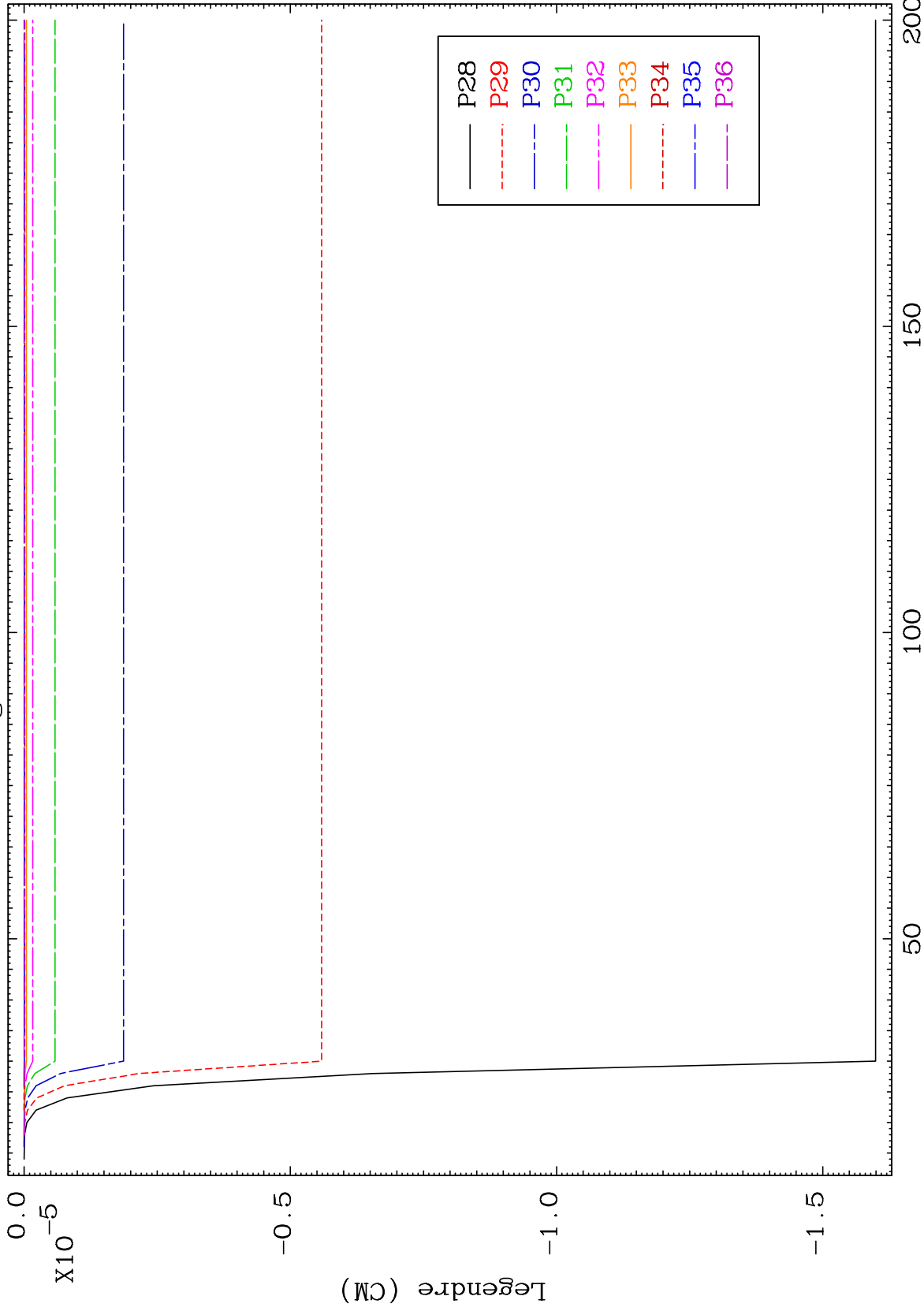
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158

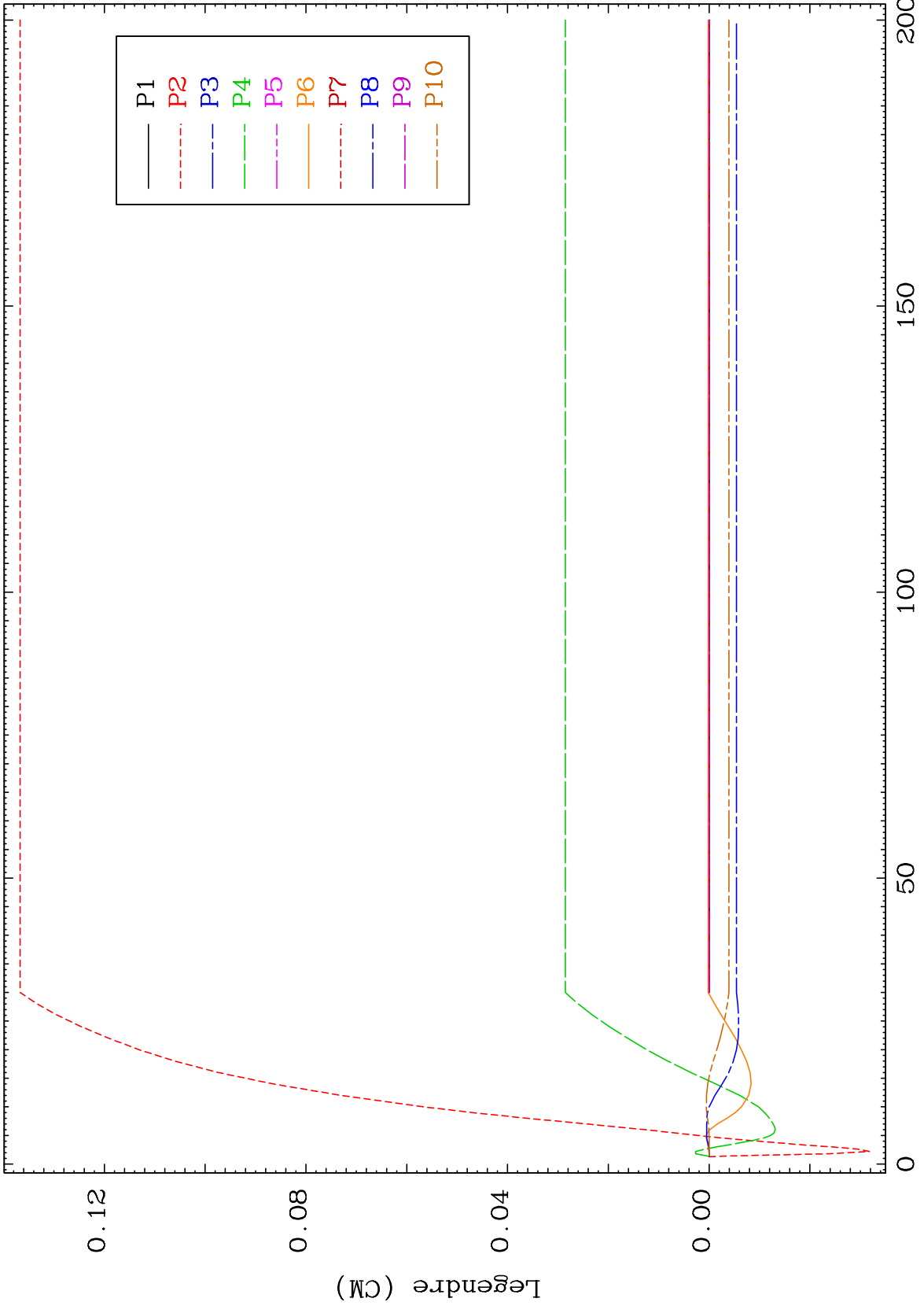


64-Gd-158

Incident Energy (MeV)

68

MAT 6443 MT= 64 (n,n') Level Legendre Coefficients 64-Gd-158

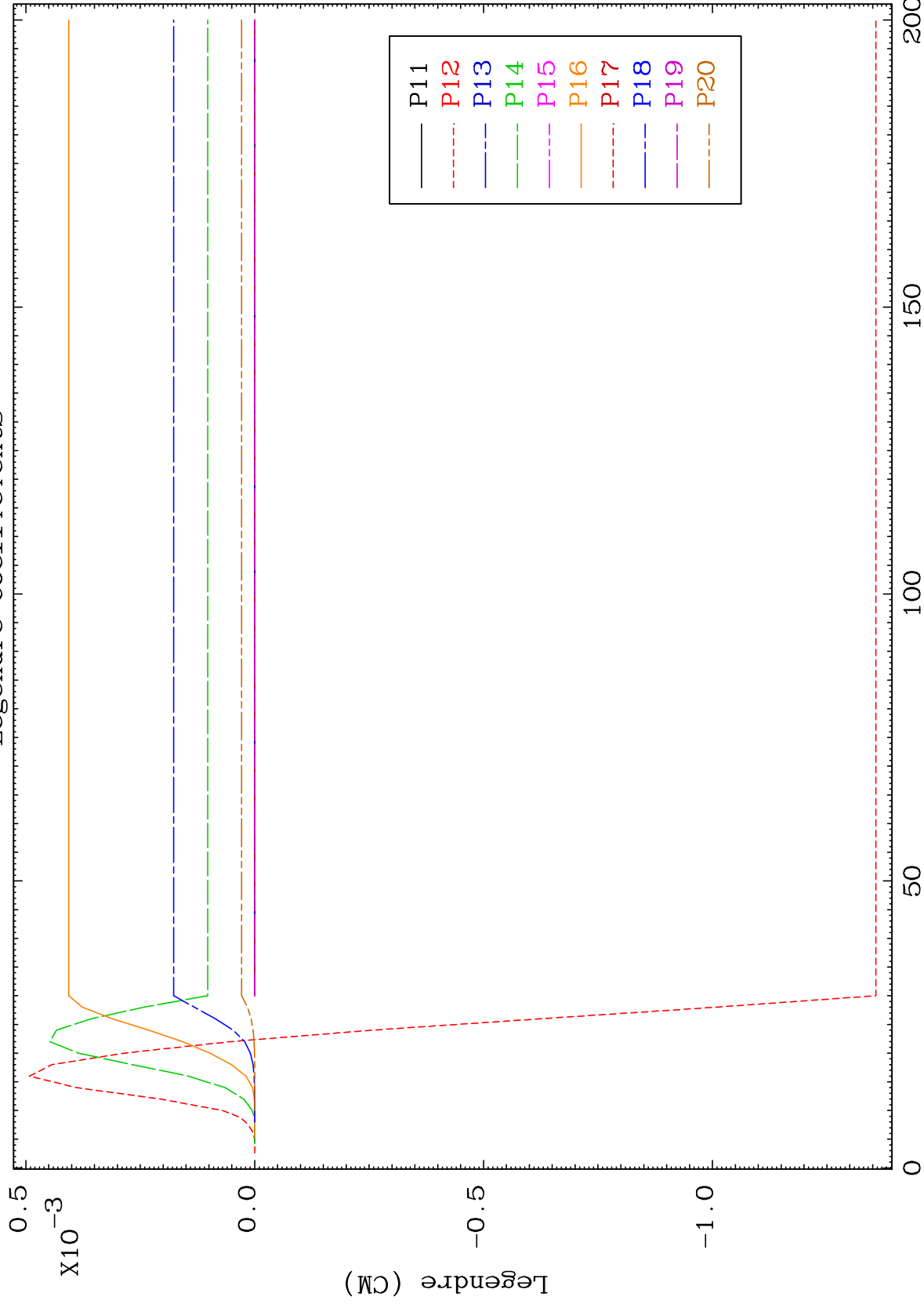


69 64-Gd-158

MAT 6443

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

64-Gd-158



70

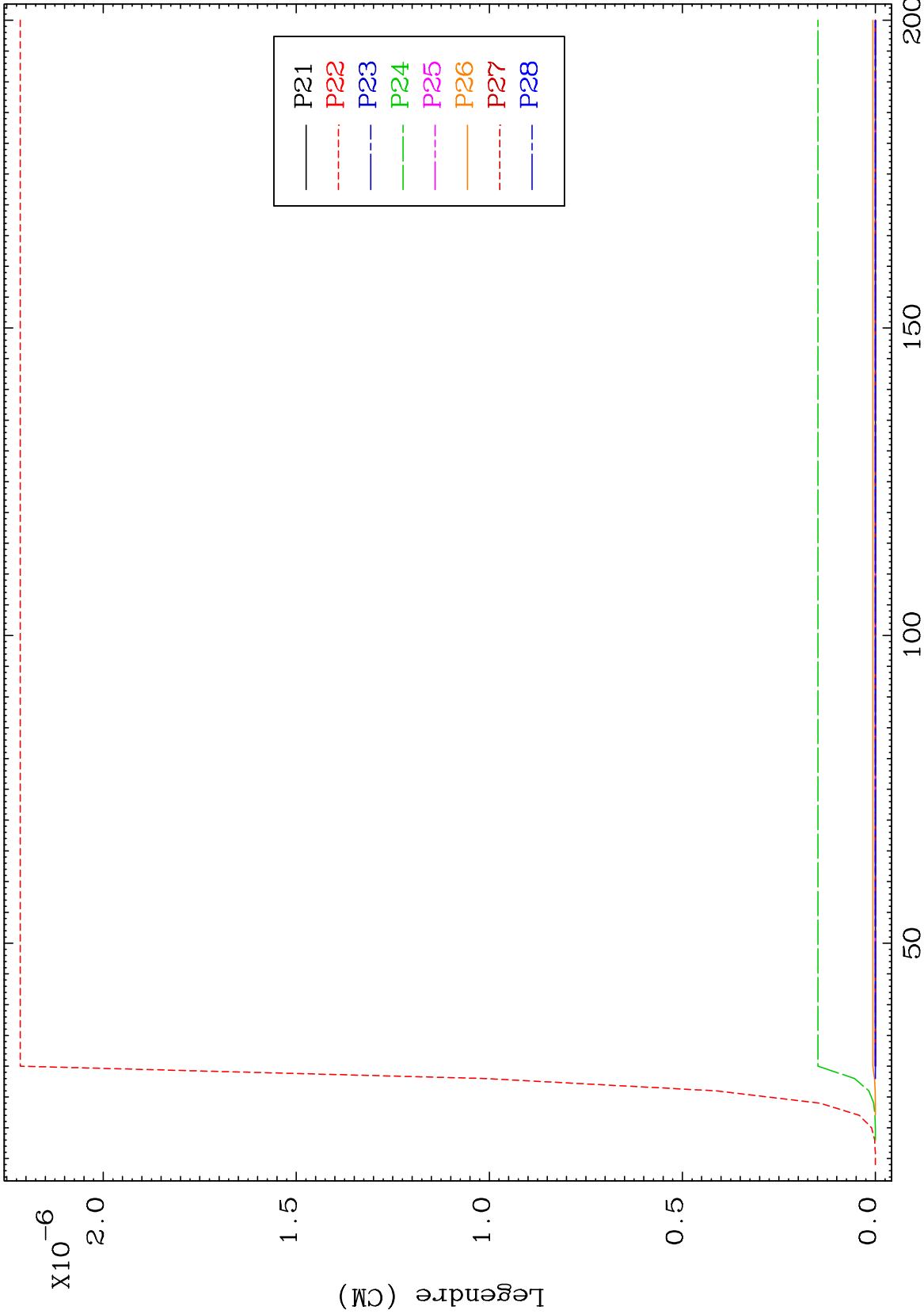
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158

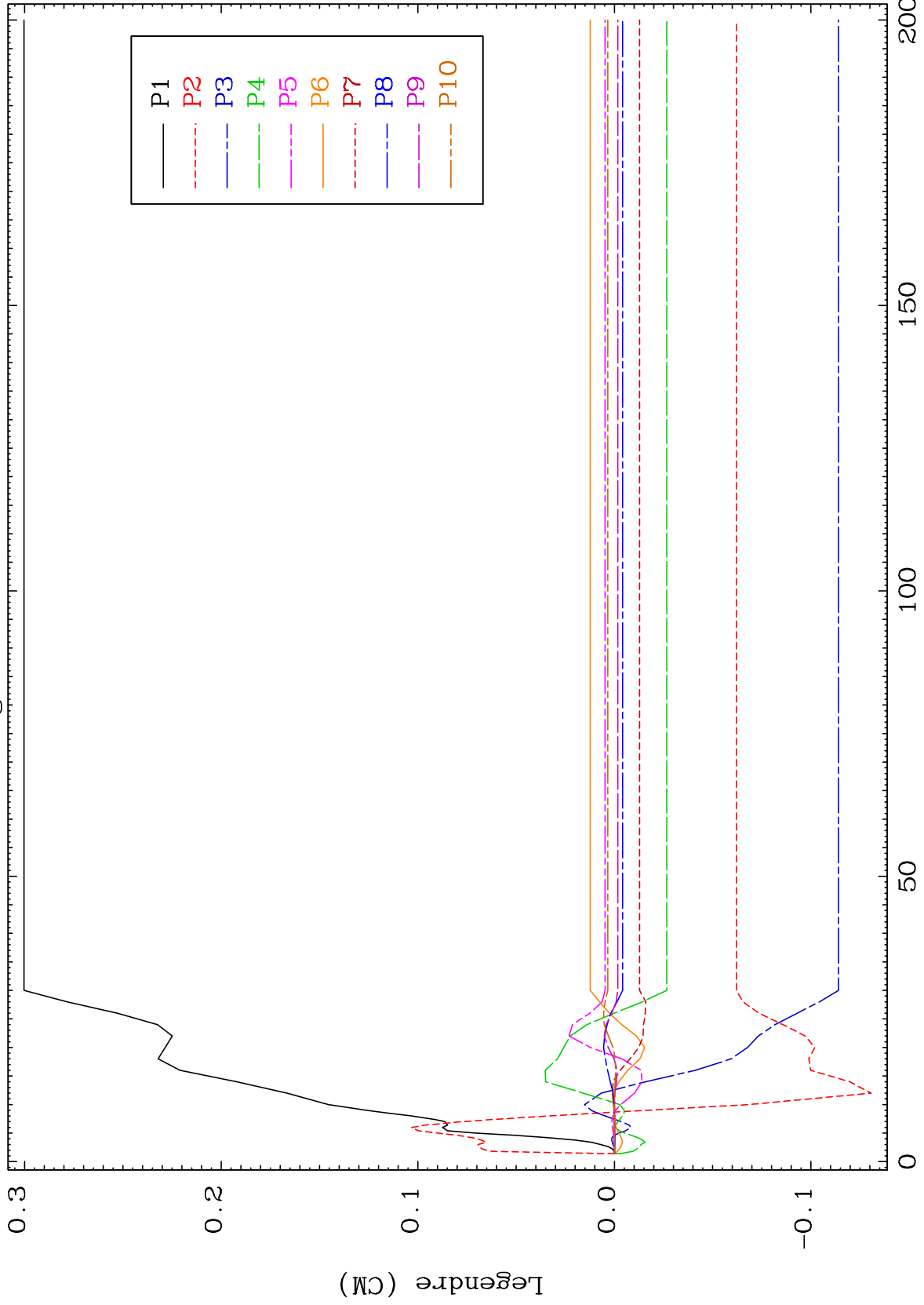


71

MAT 6443

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

64-Gd-158



72

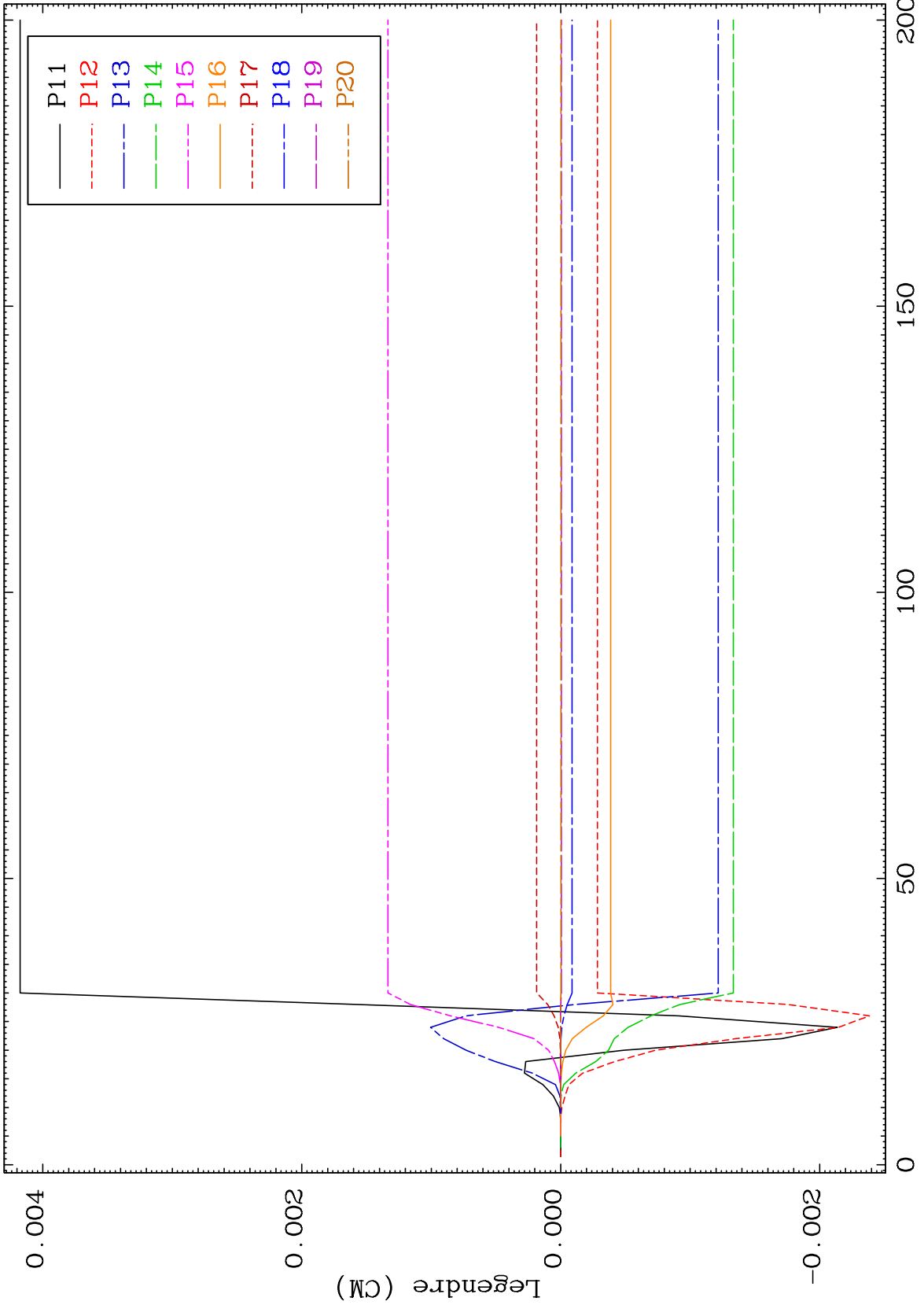
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



73

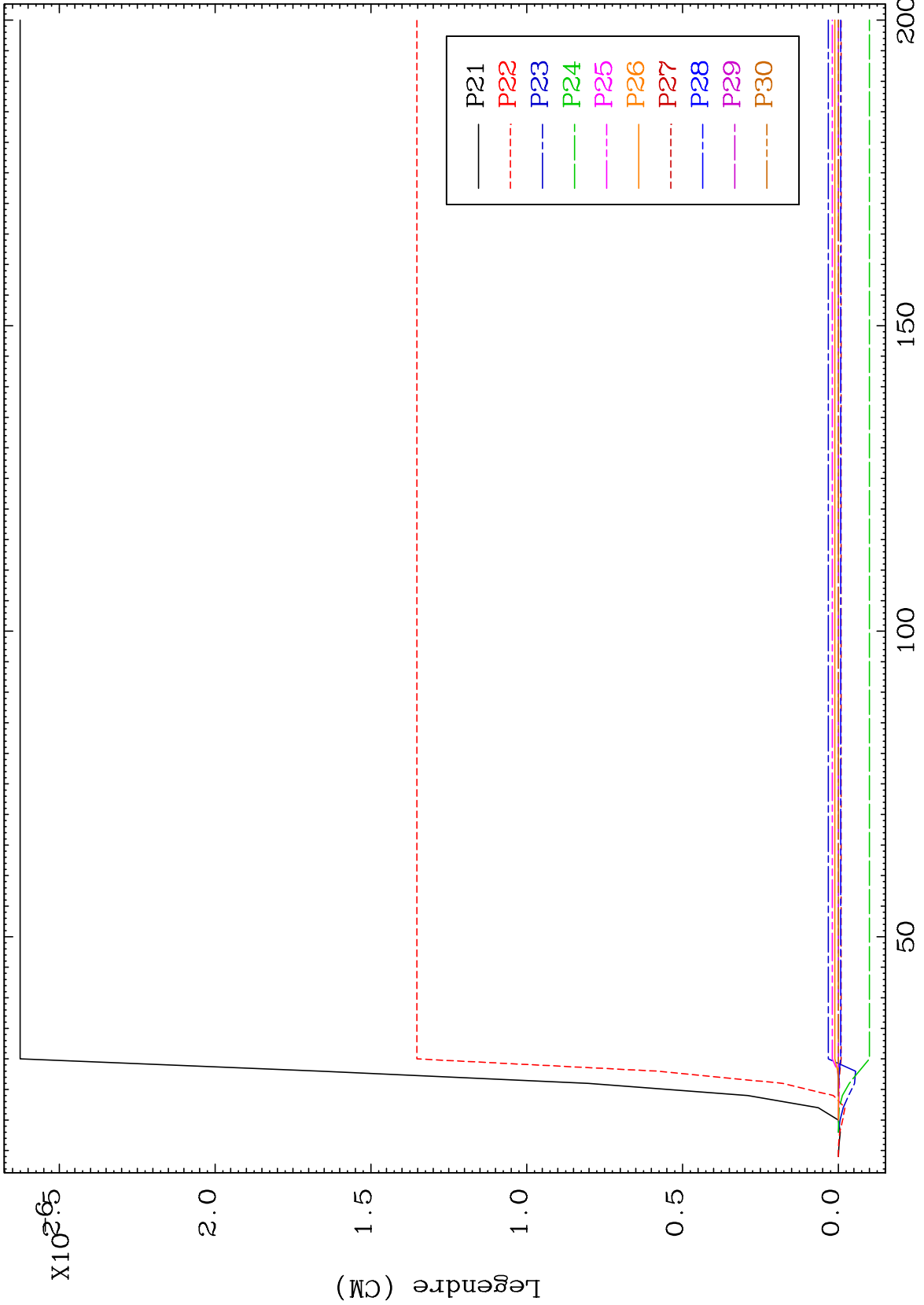
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



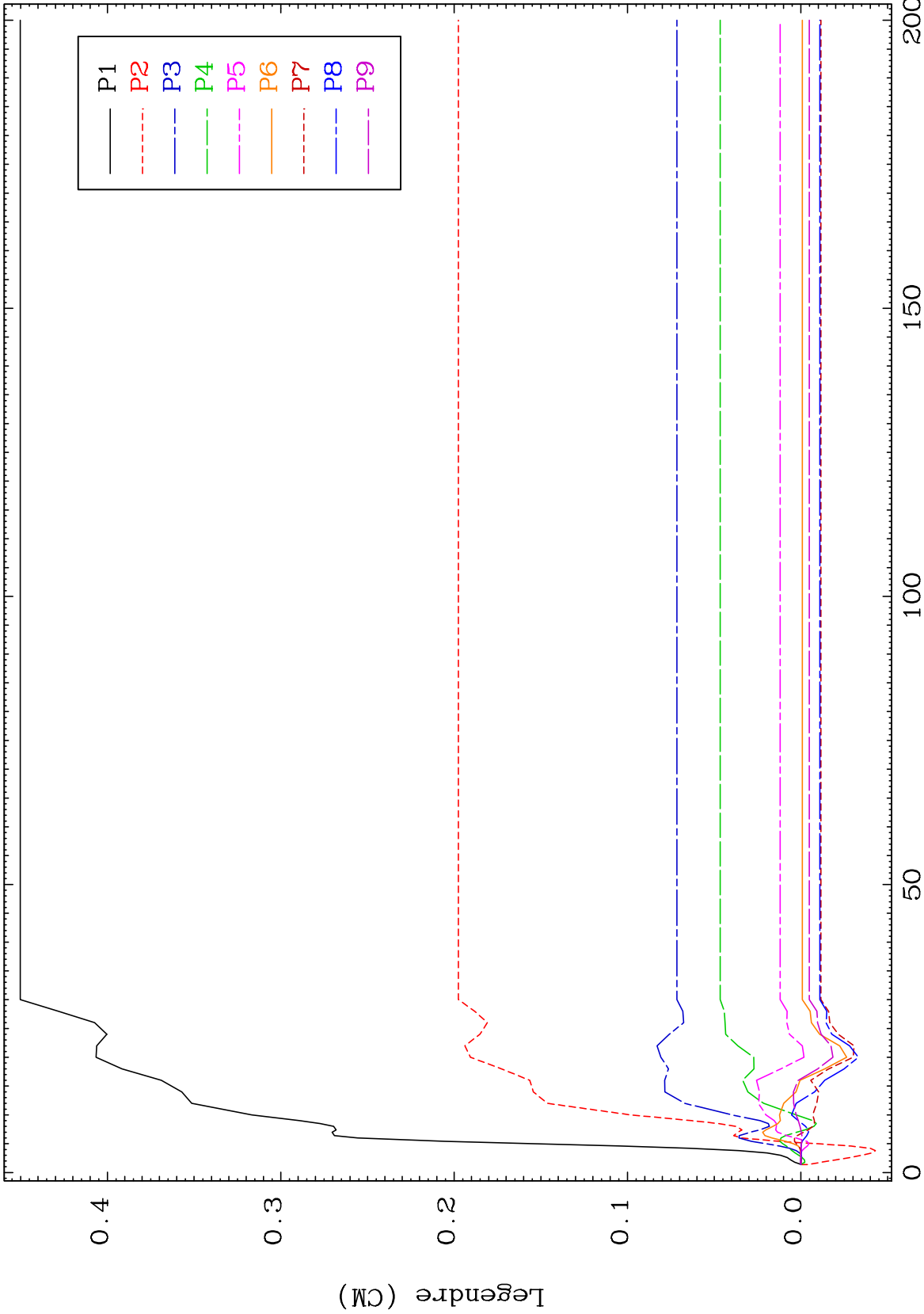
74

64-Gd-158

MAT 6443

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

64-Gd-158



75

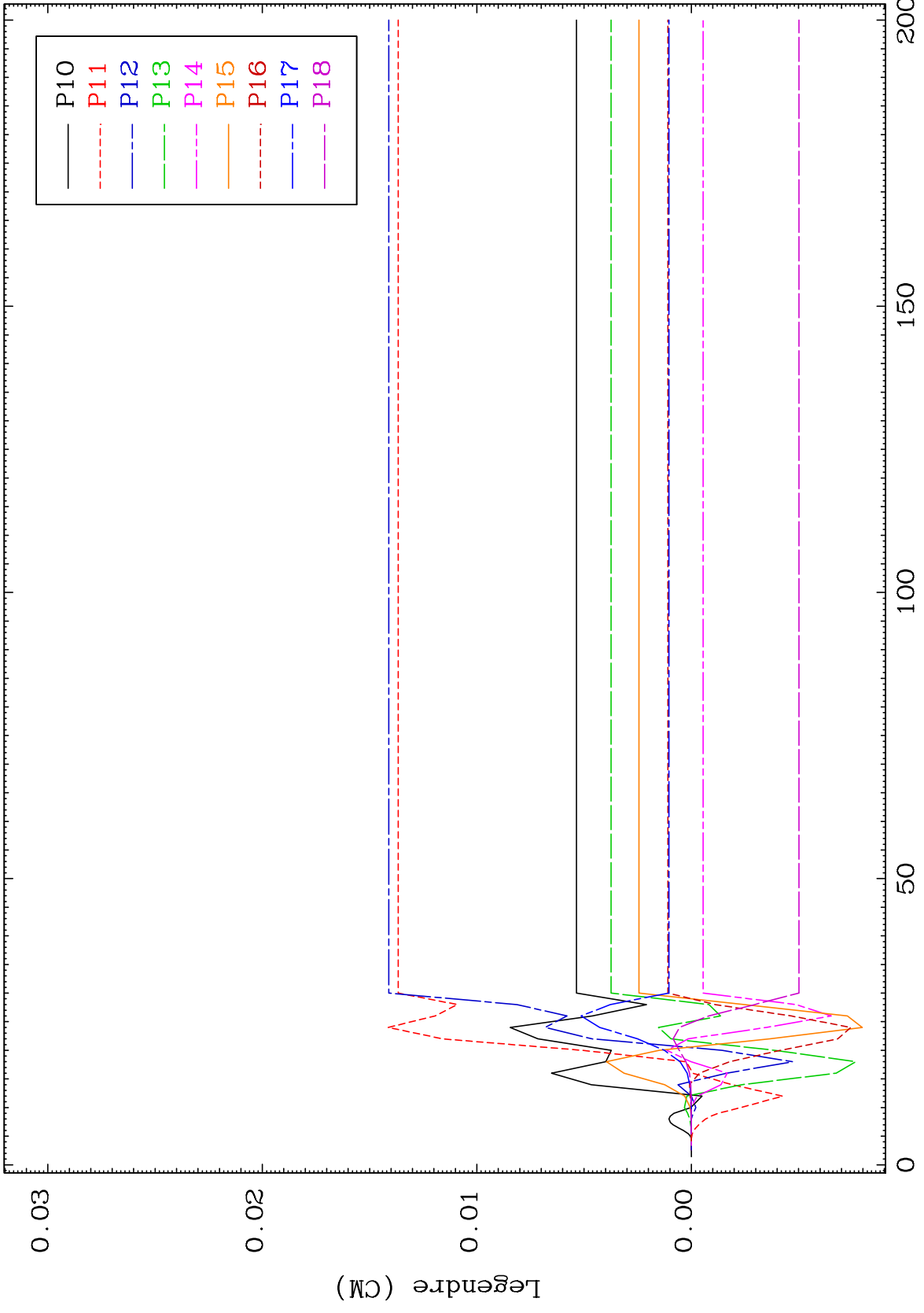
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



76

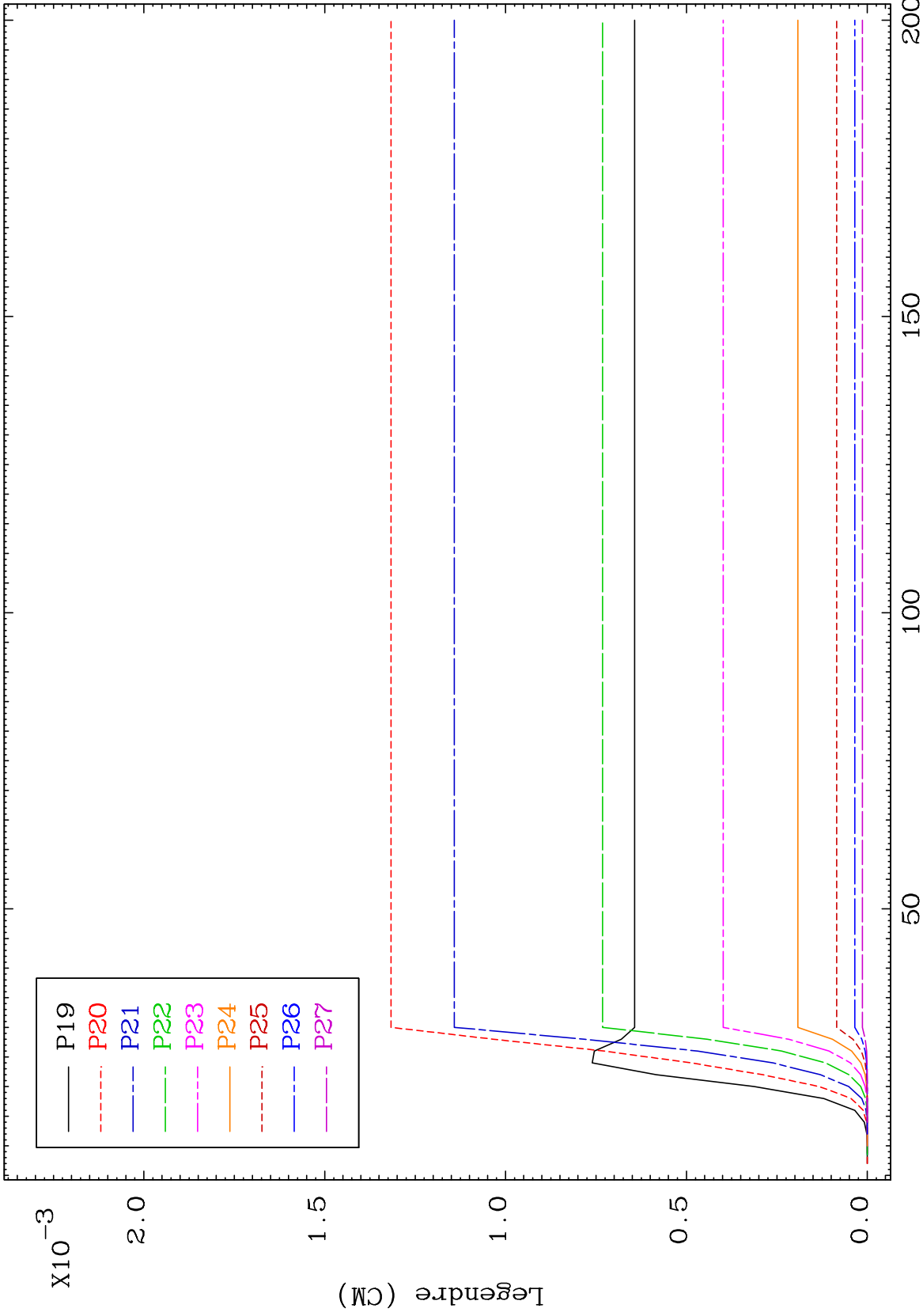
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



77

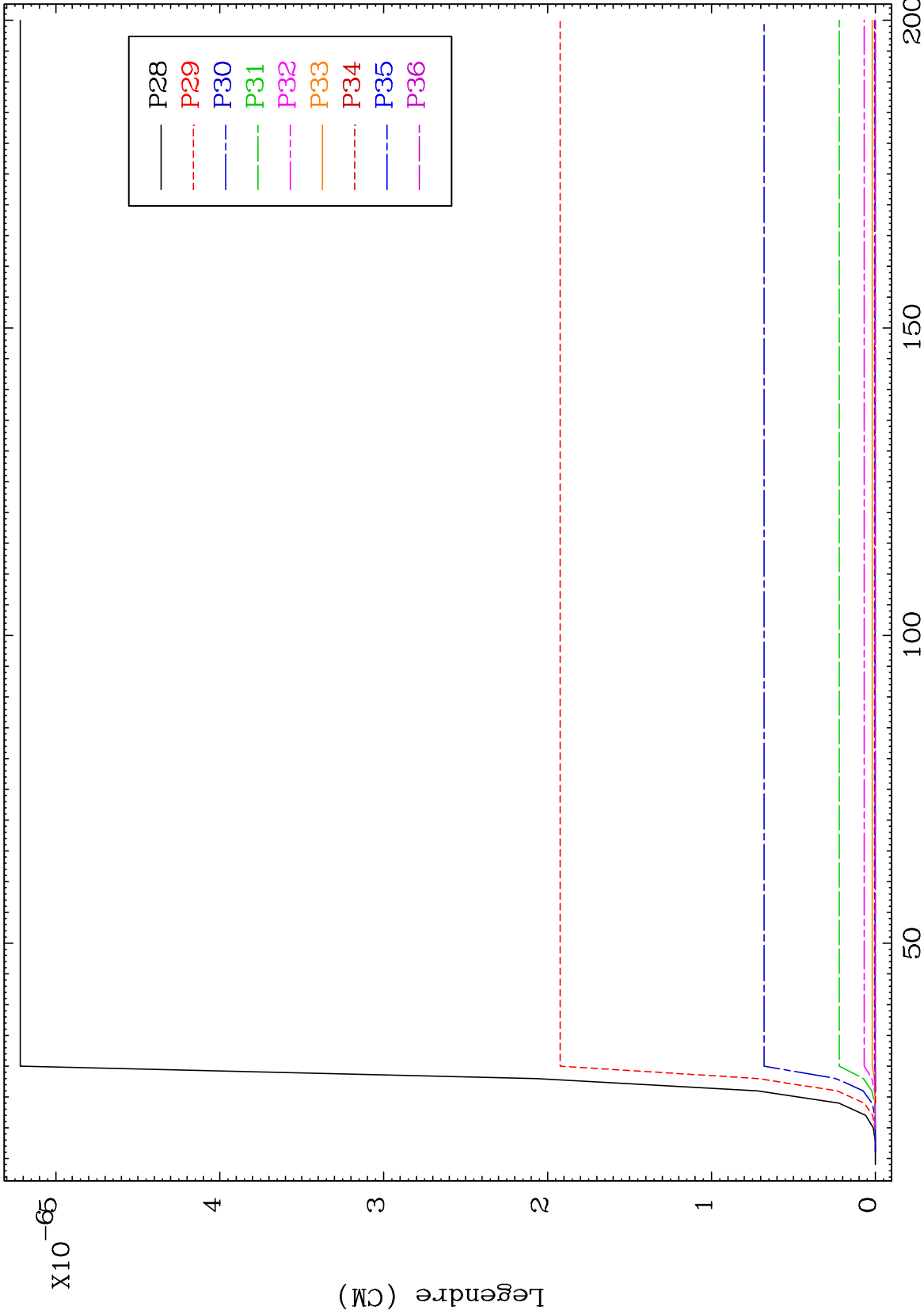
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



78

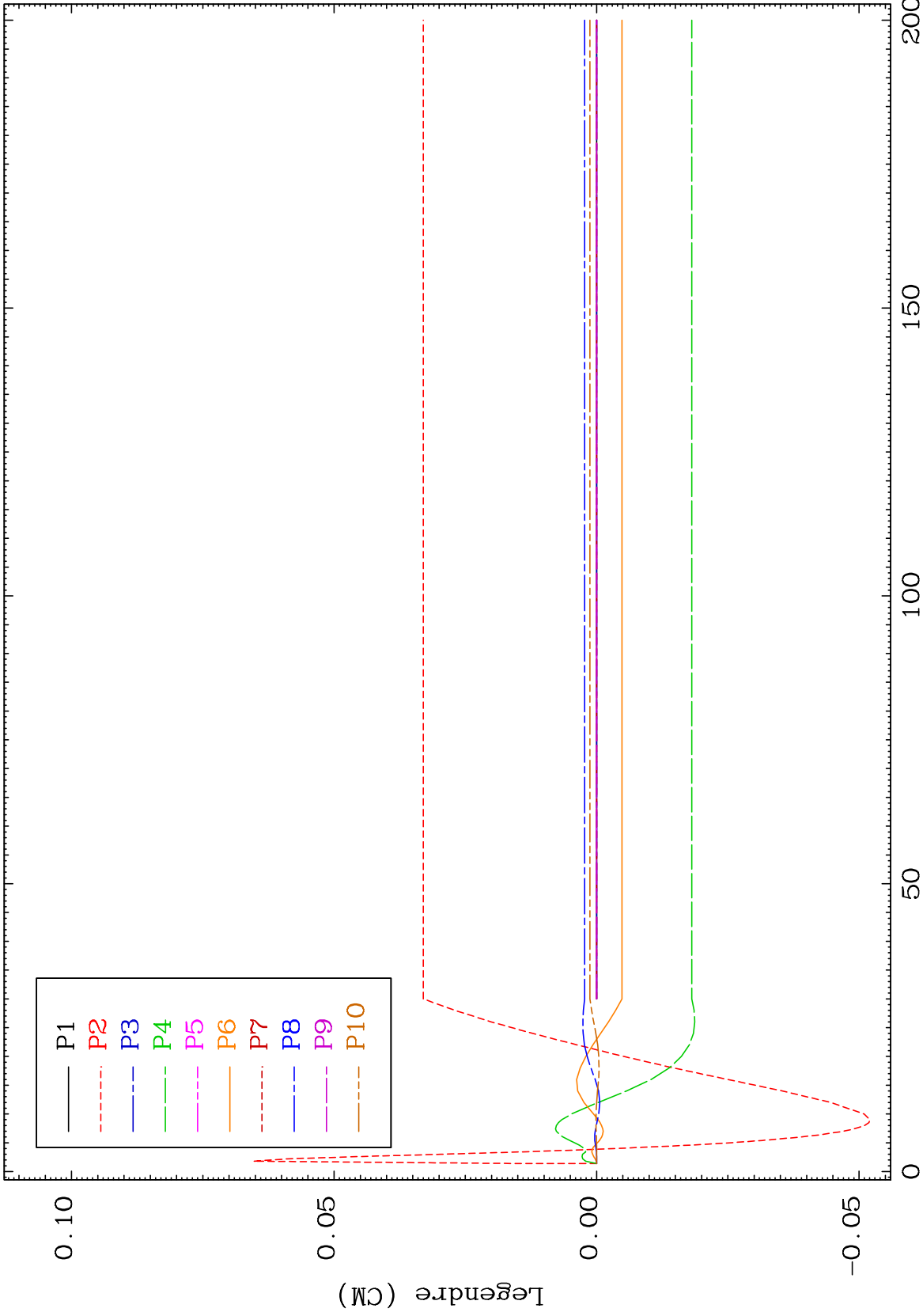
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



79

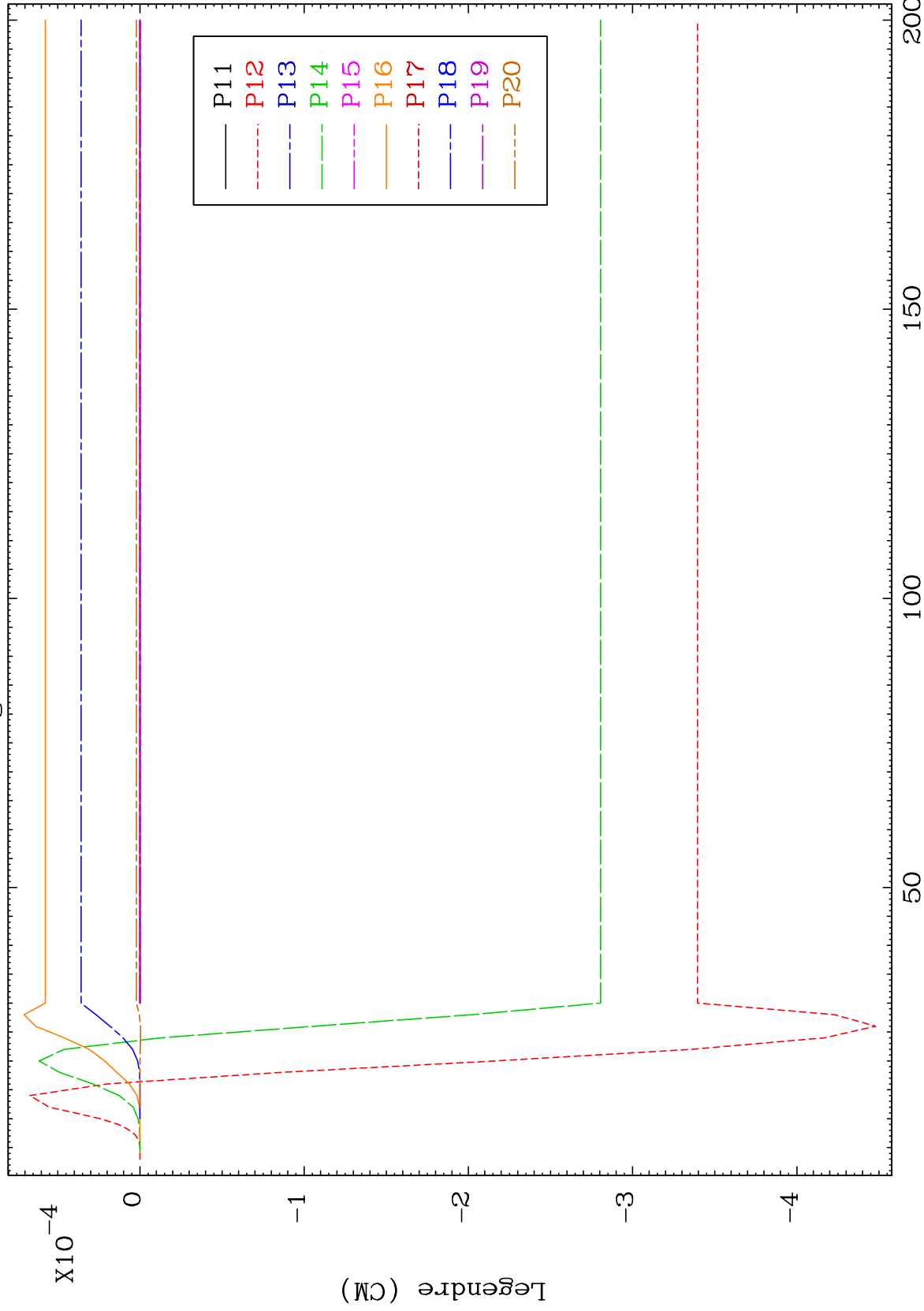
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



80

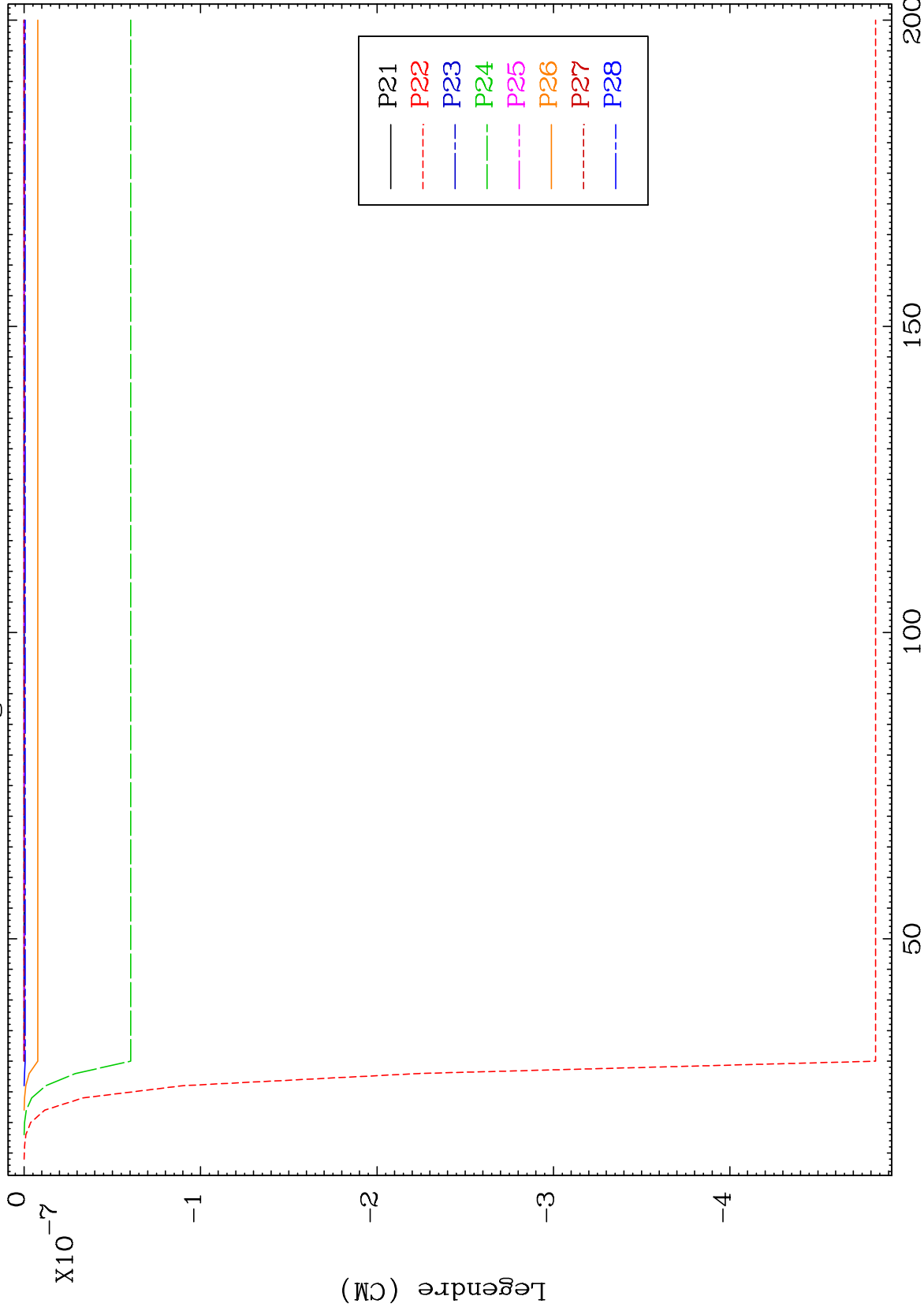
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



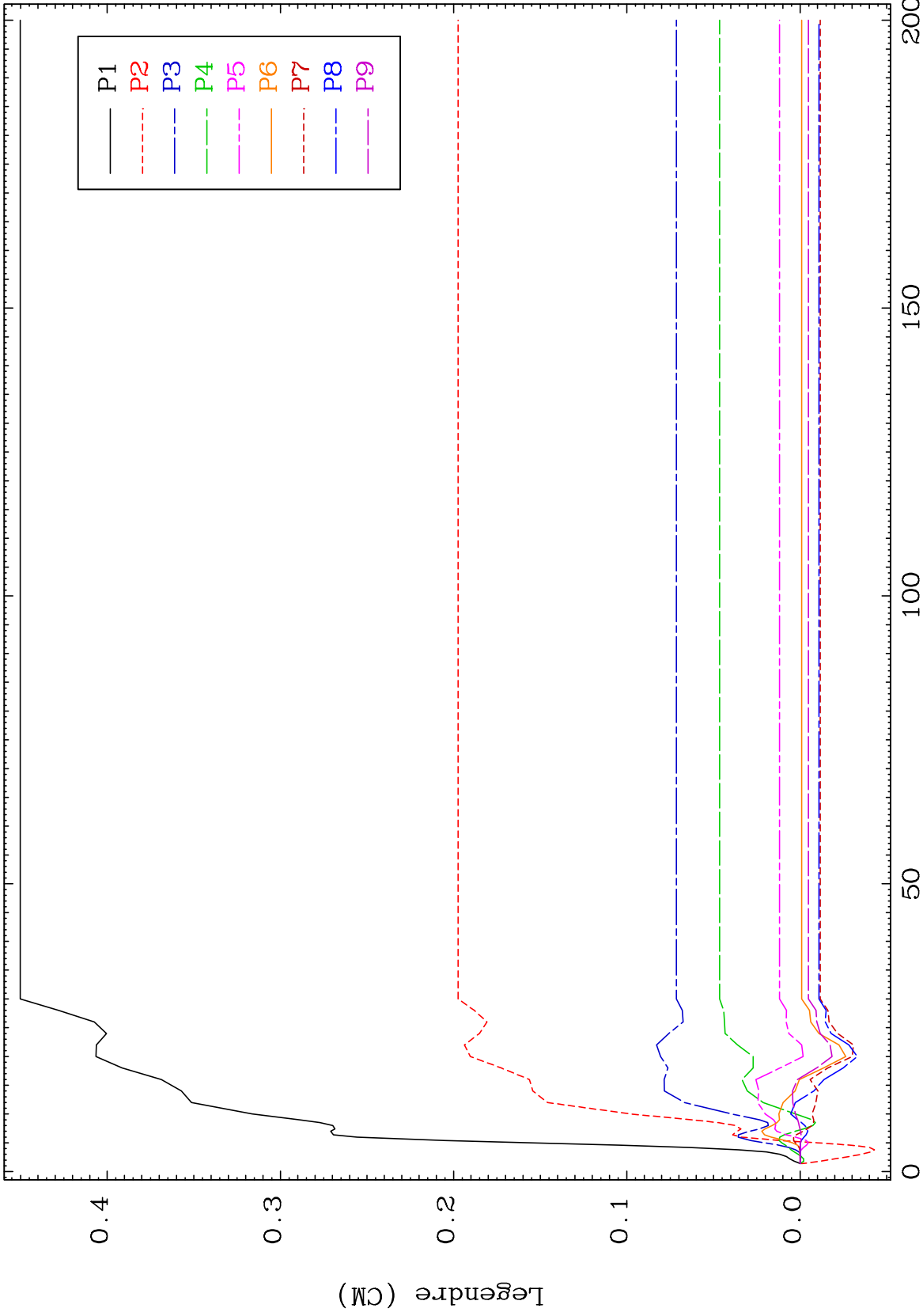
81

64-Gd-158

MAT 6443

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

64-Gd-158



82

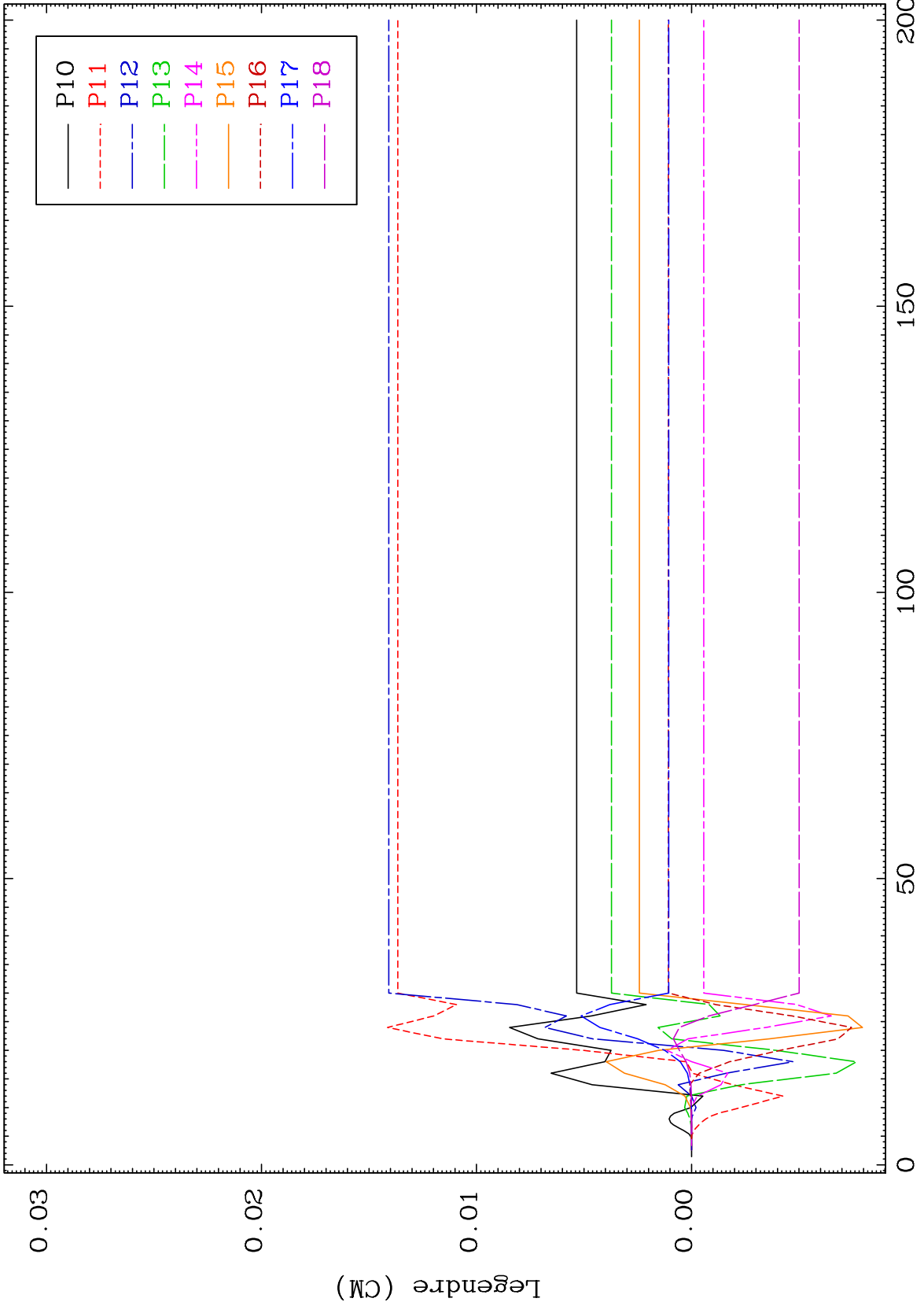
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



83

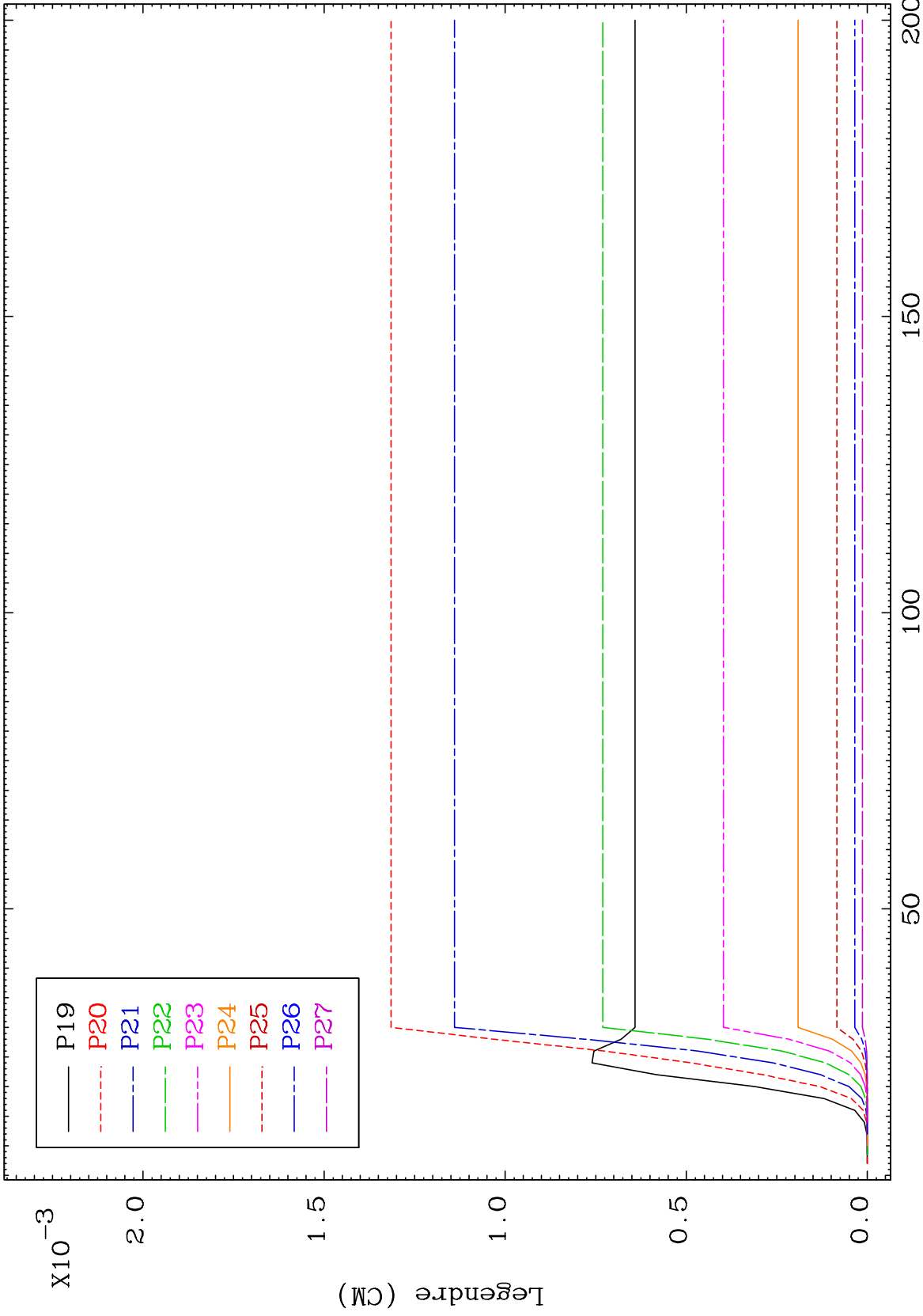
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



84

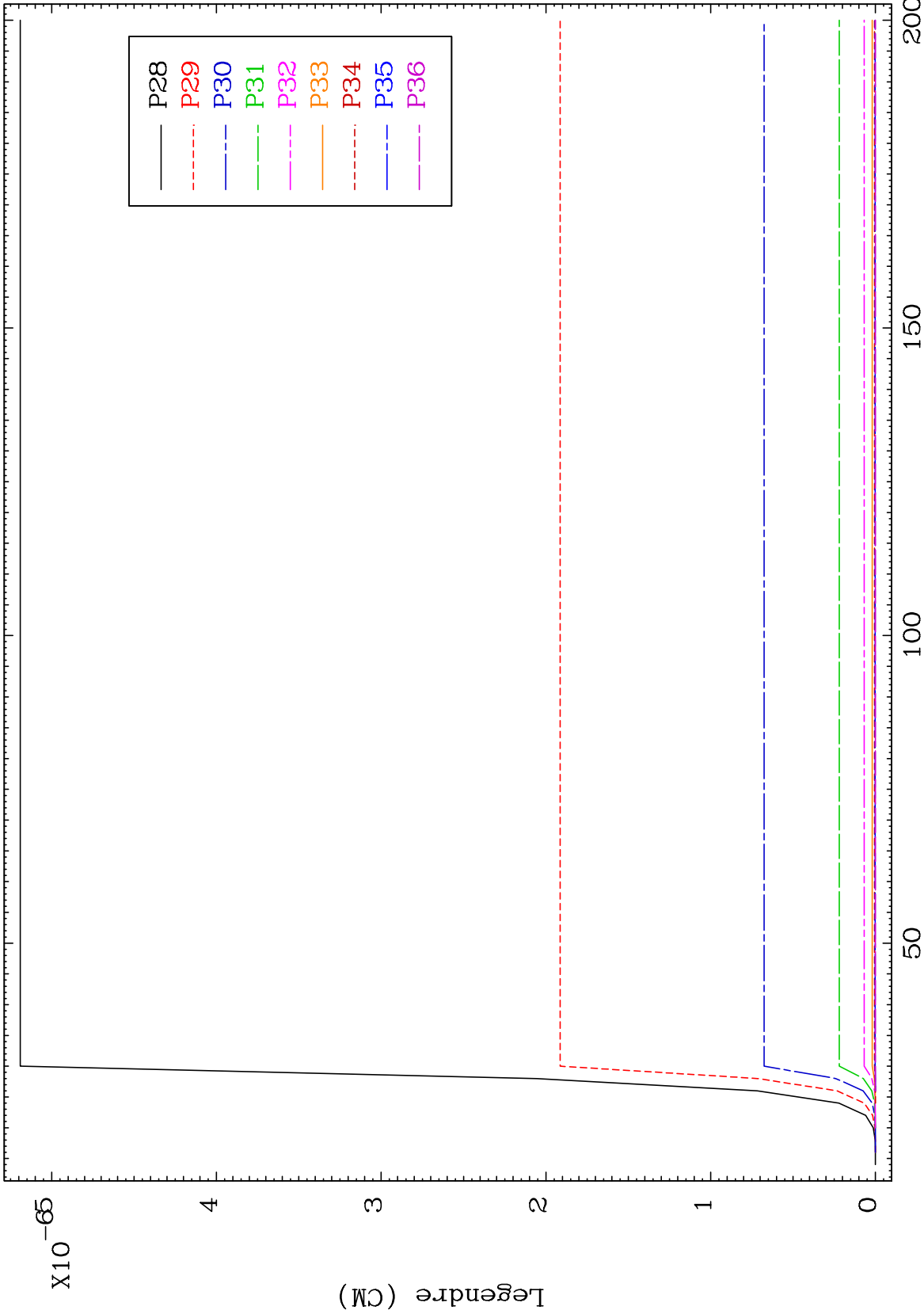
64-Gd-158

64-Gd-158

MAT 6443

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

64-Gd-158



85

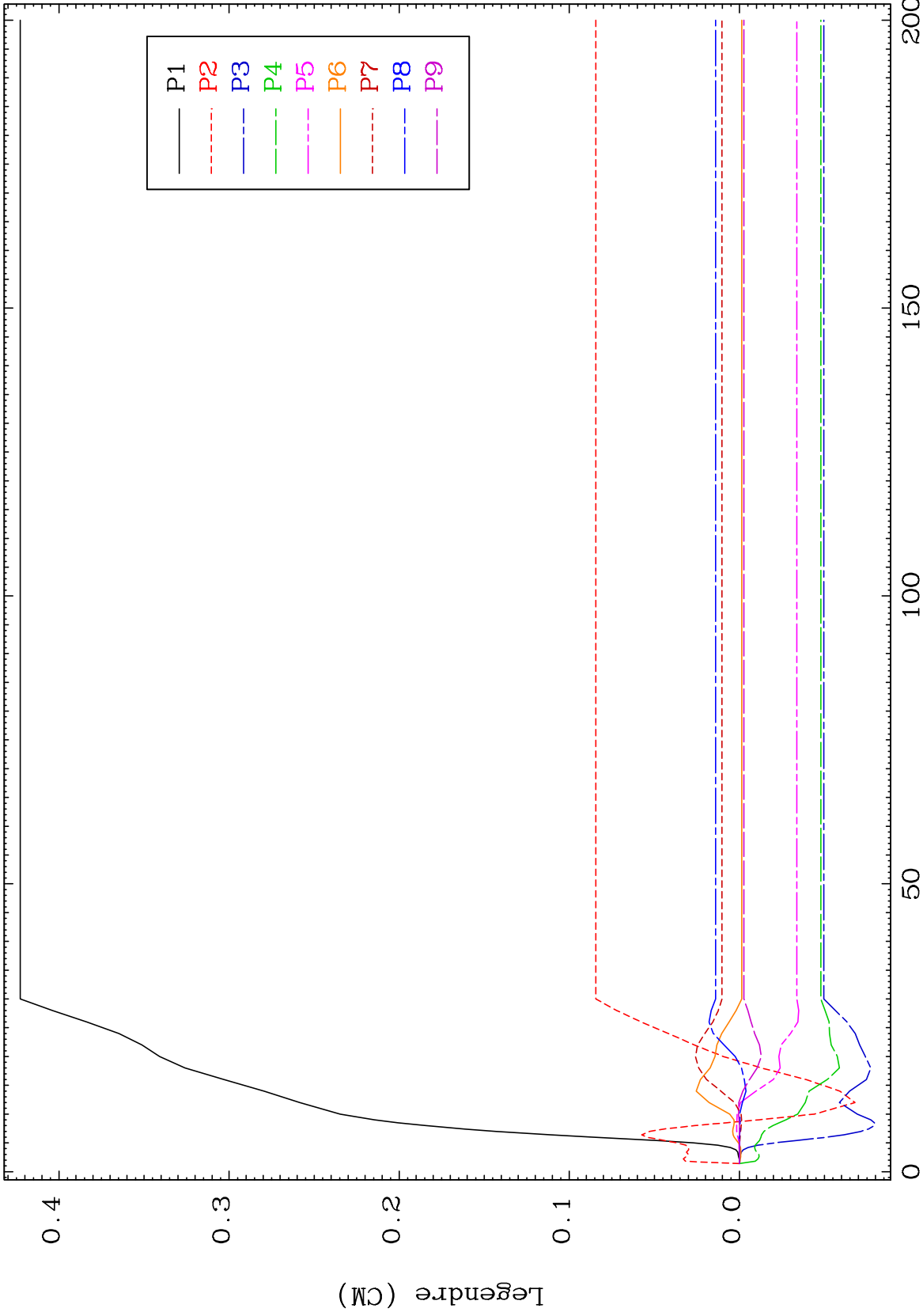
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



86

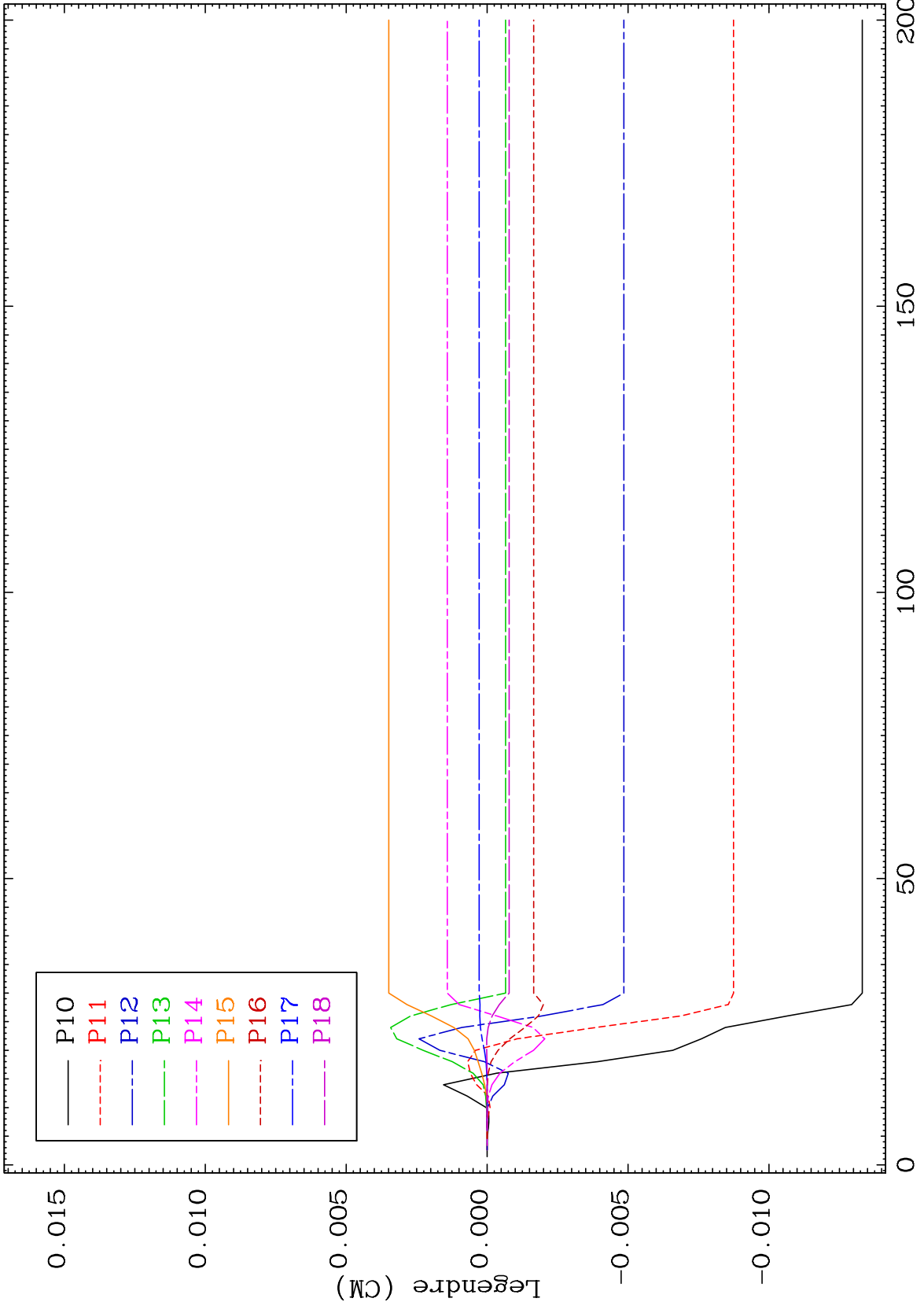
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



87

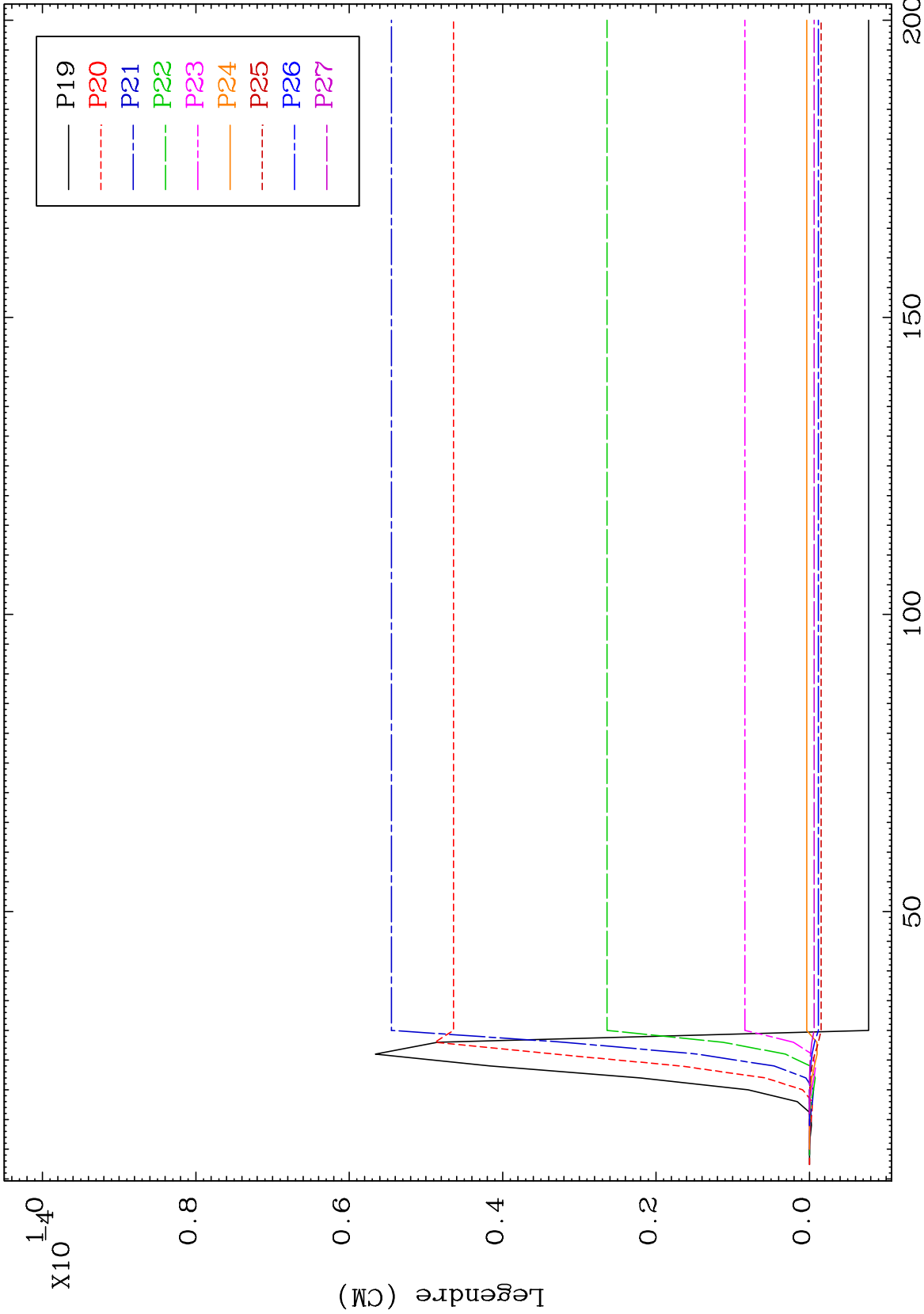
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



88

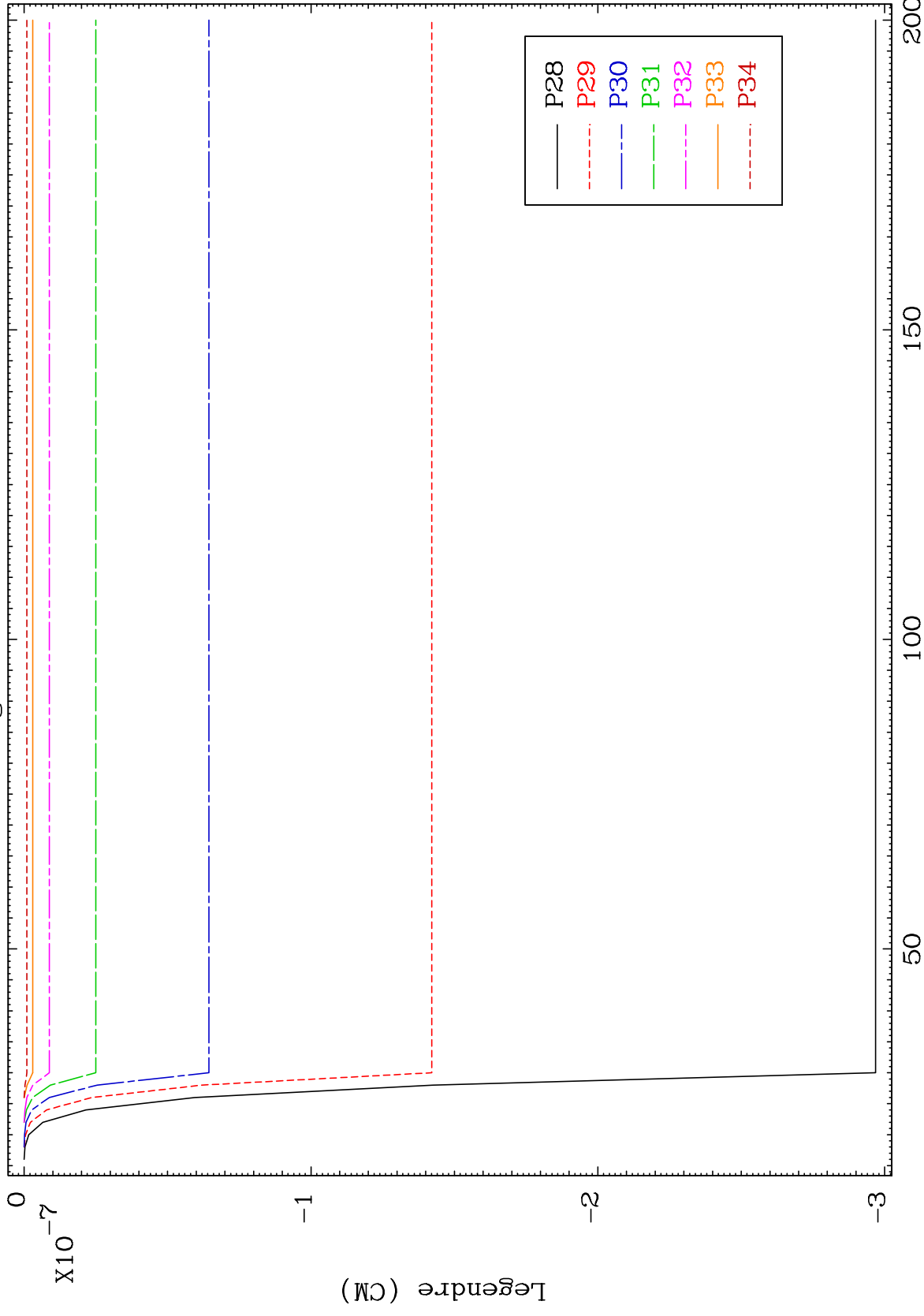
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



64-Gd-158

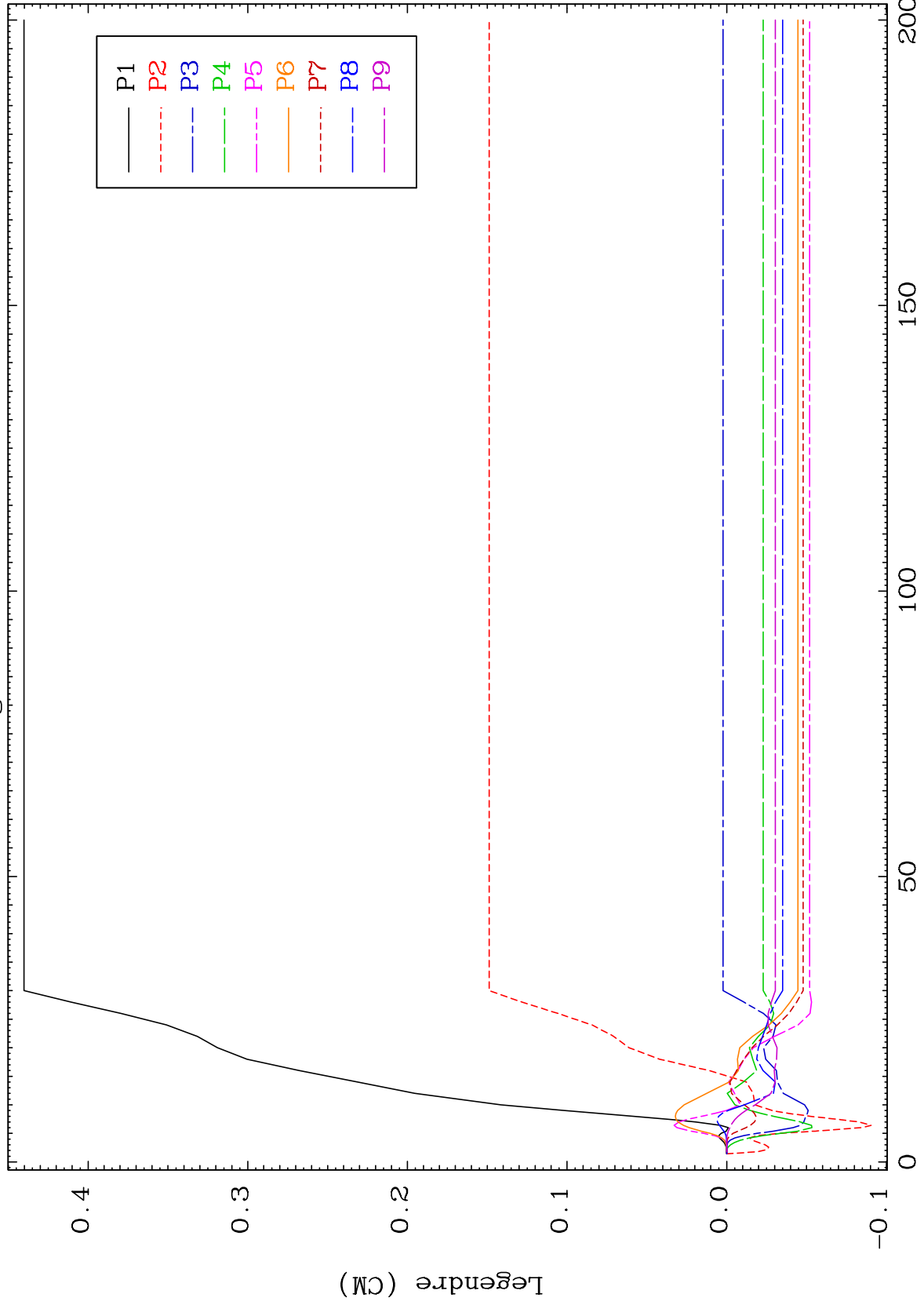
Incident Energy (MeV)

89

MAT 6443

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

64-Gd-158



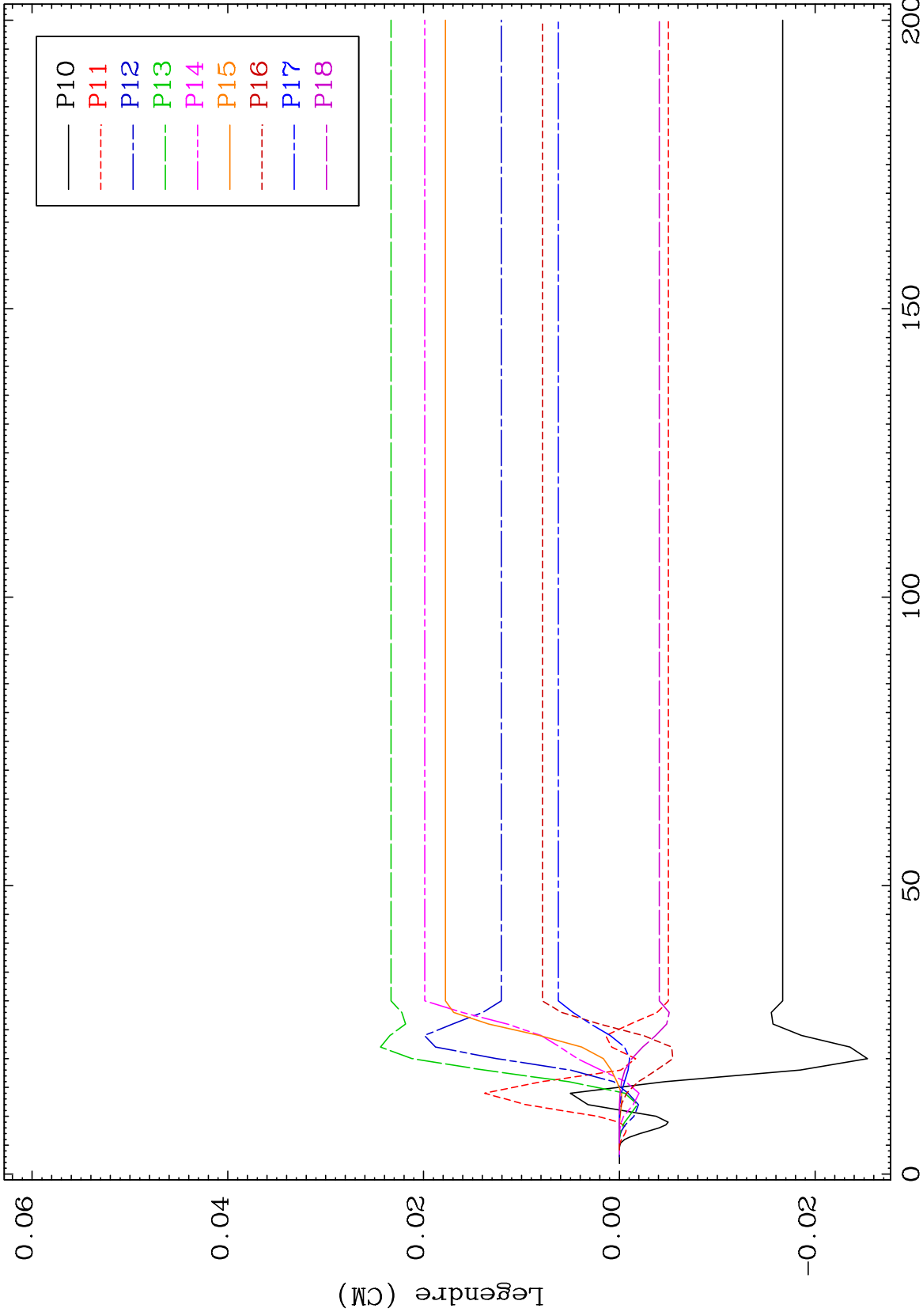
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



91

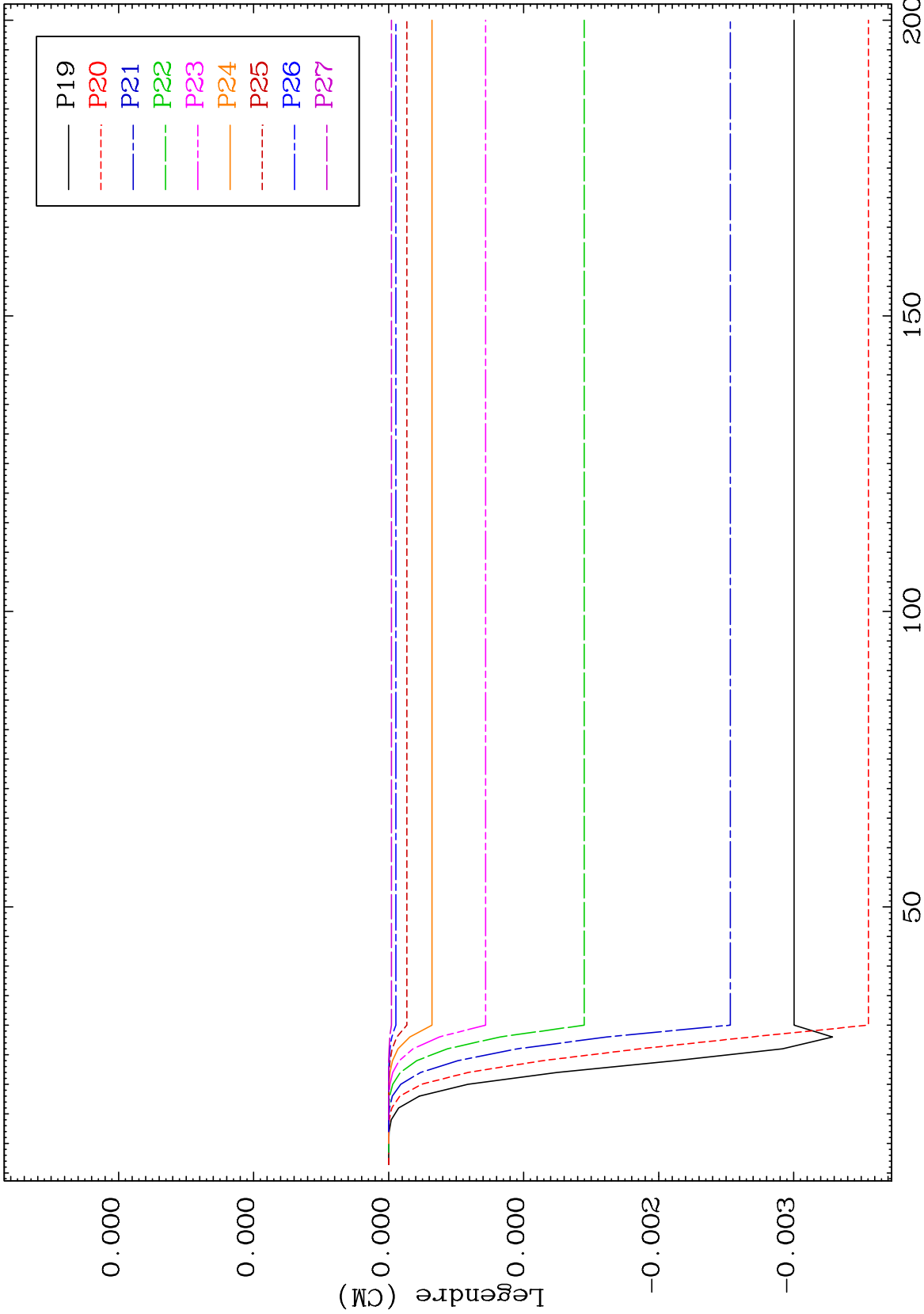
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



92

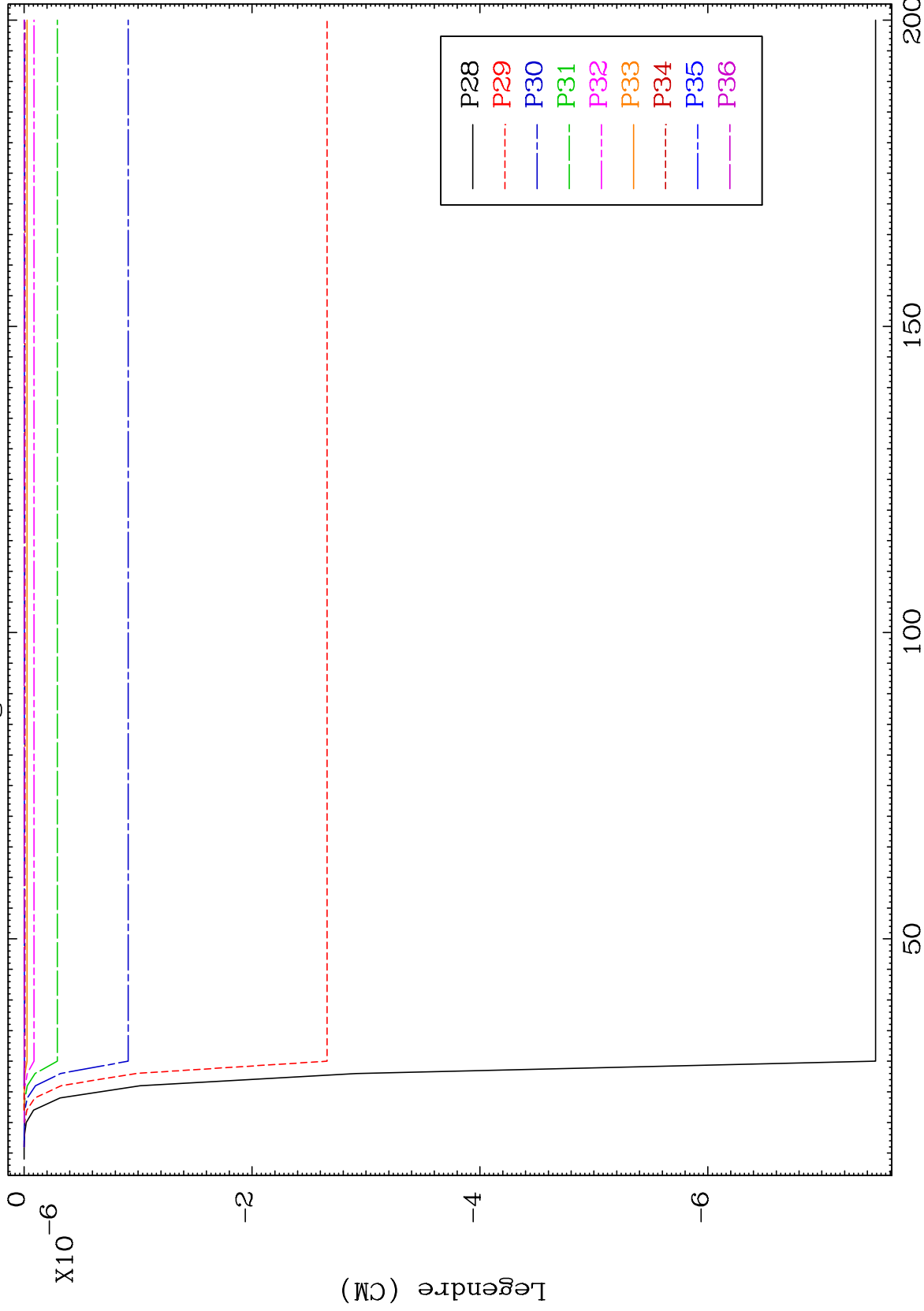
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



64-Gd-158

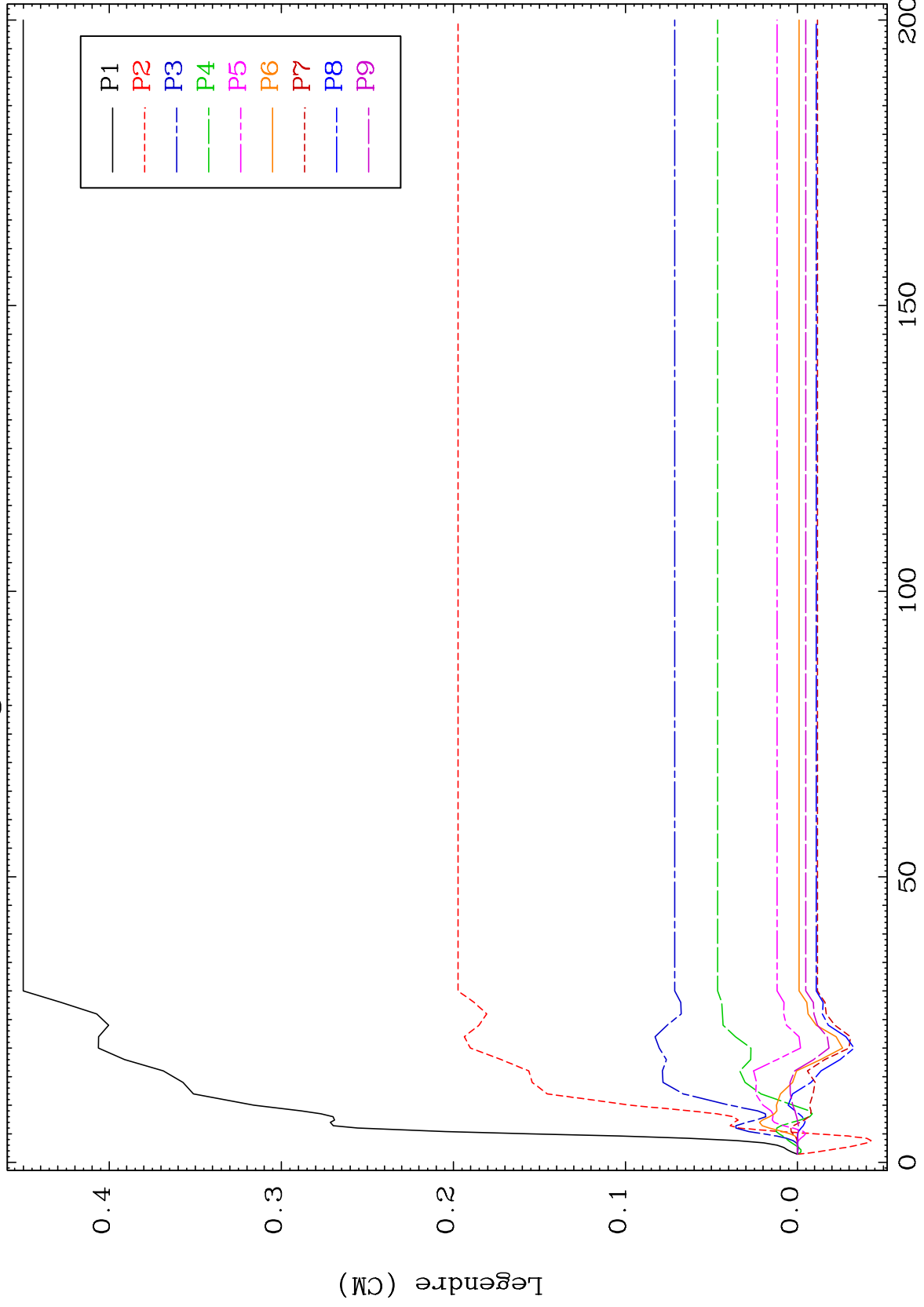
Incident Energy (MeV)

93

MAT 6443

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

64-Gd-158



94

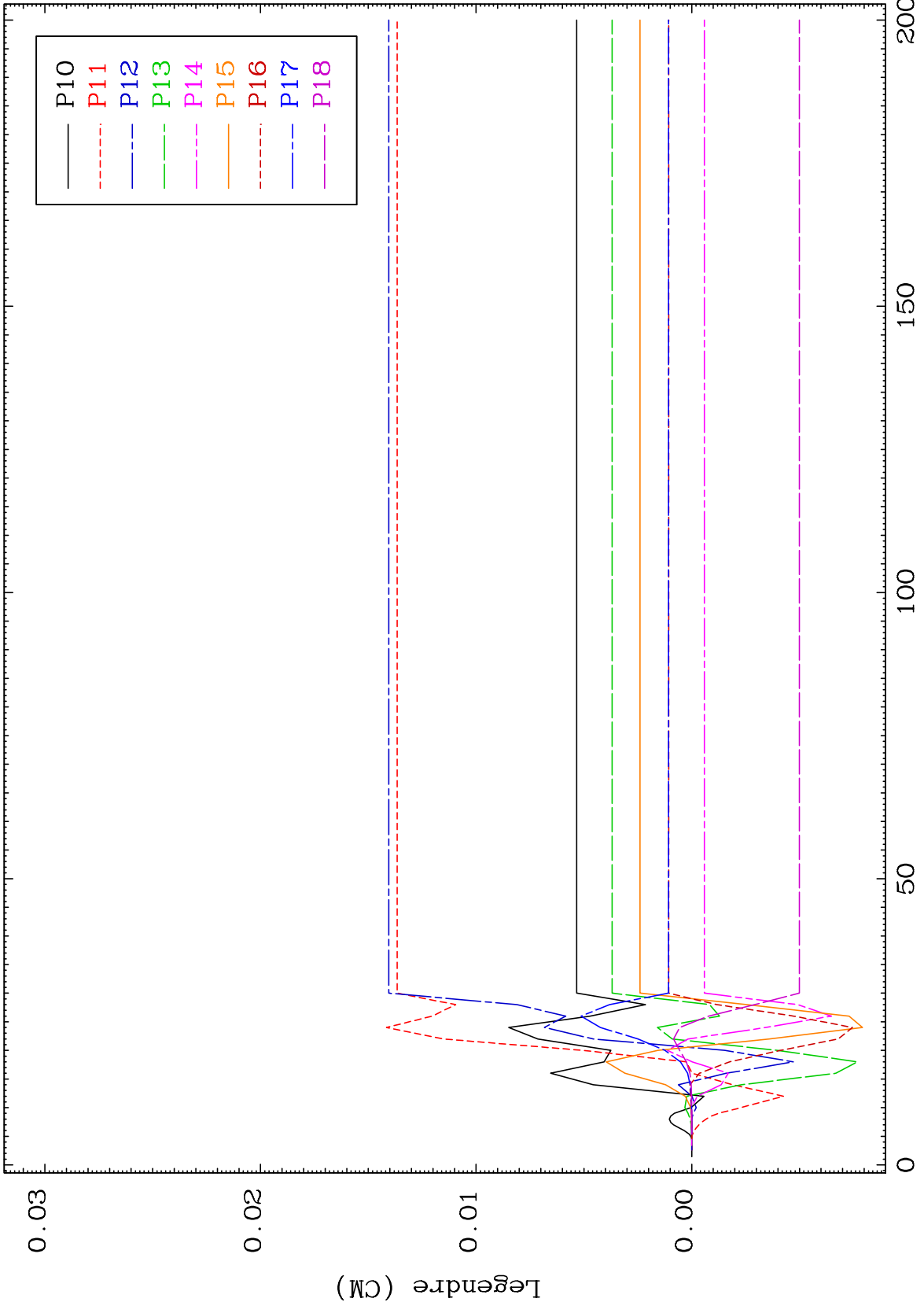
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



95

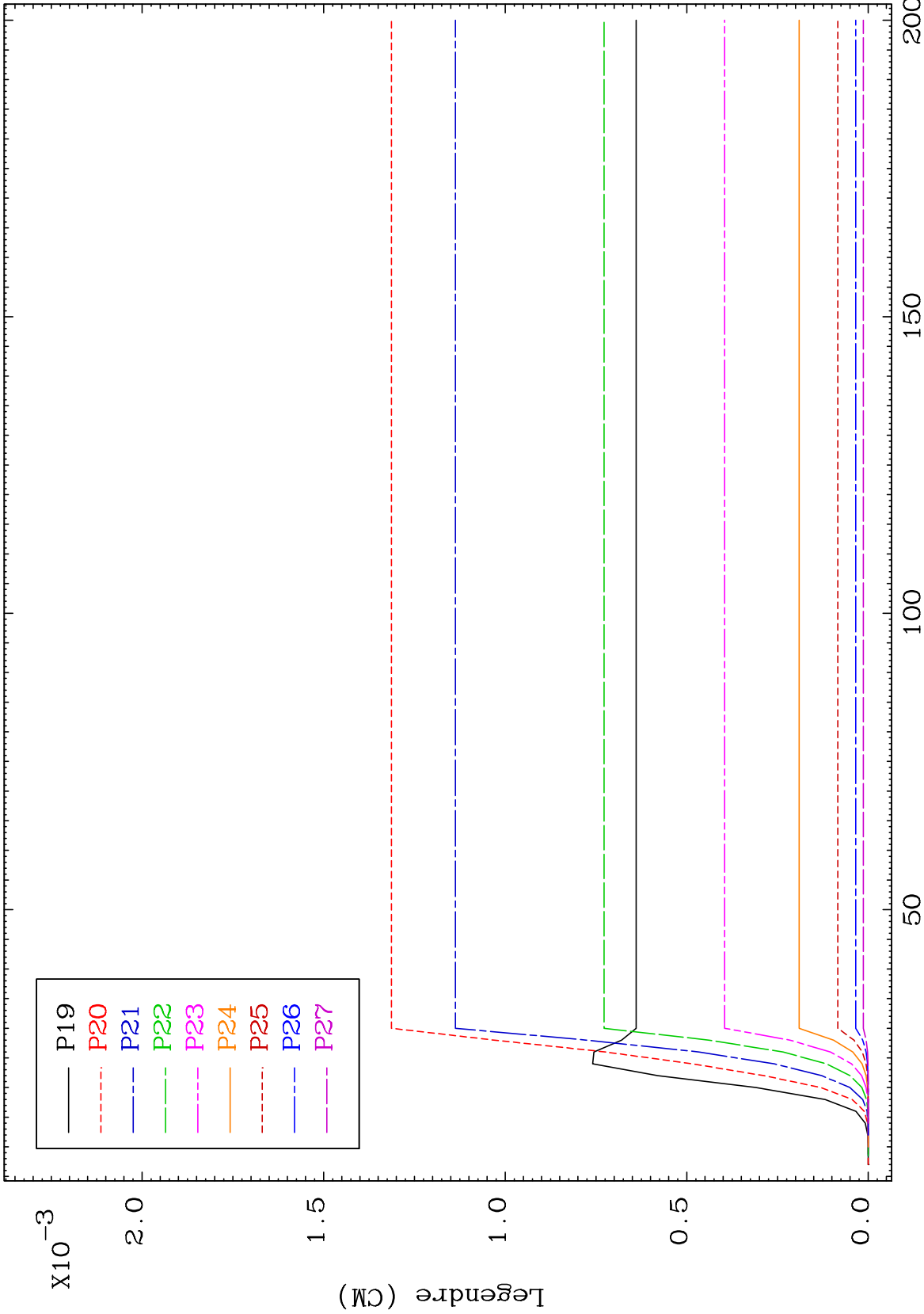
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



96

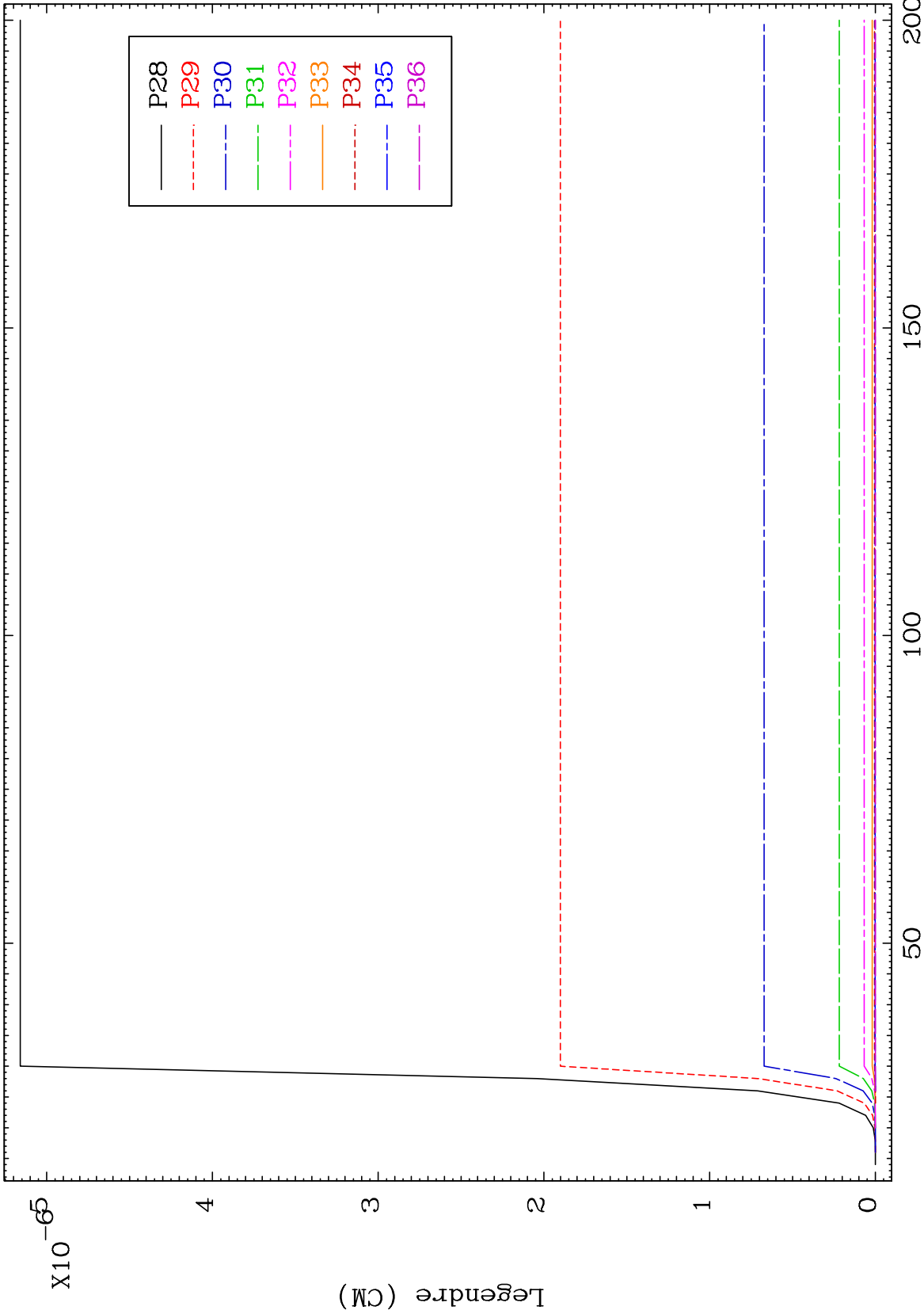
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



97

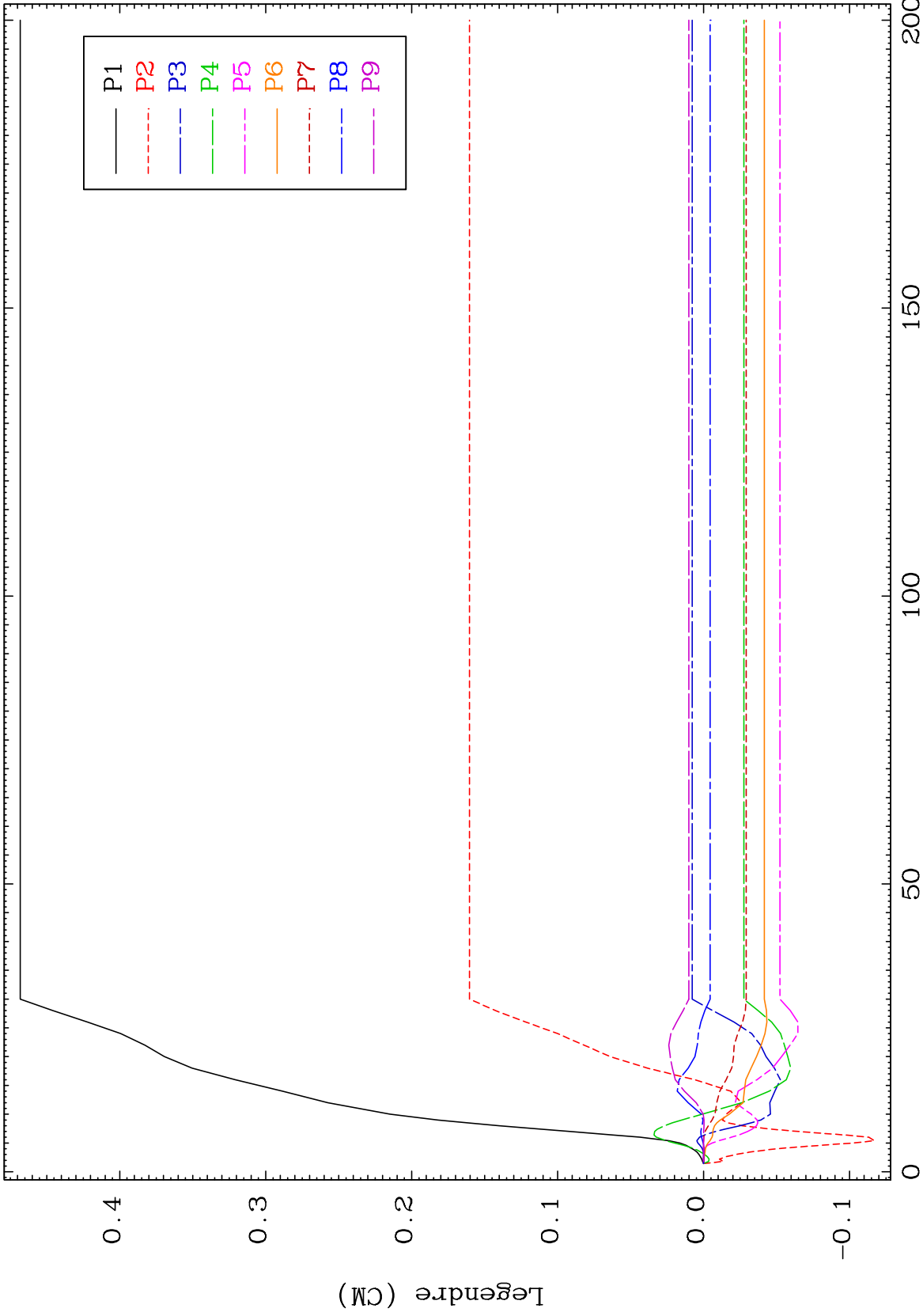
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



98

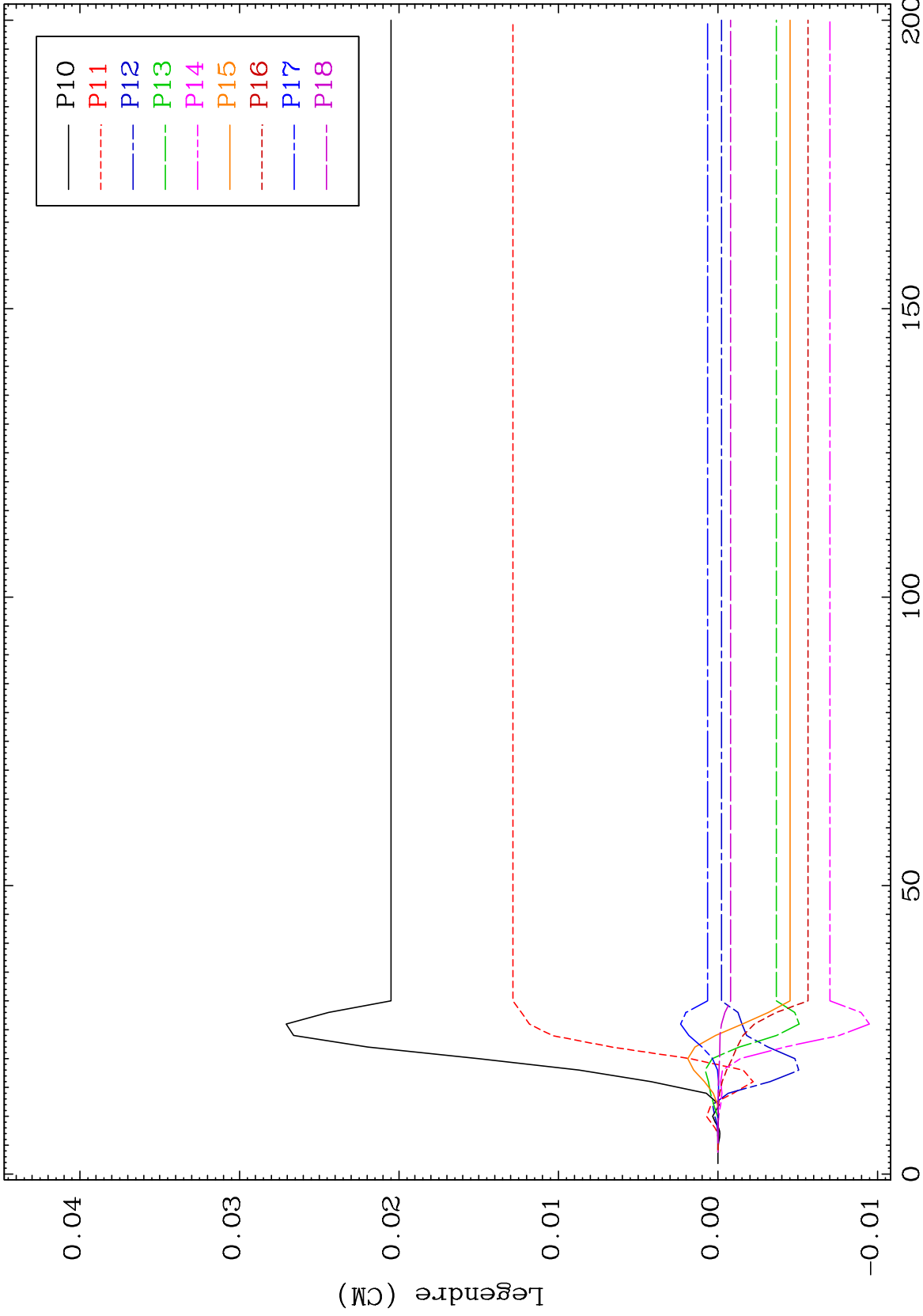
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



99

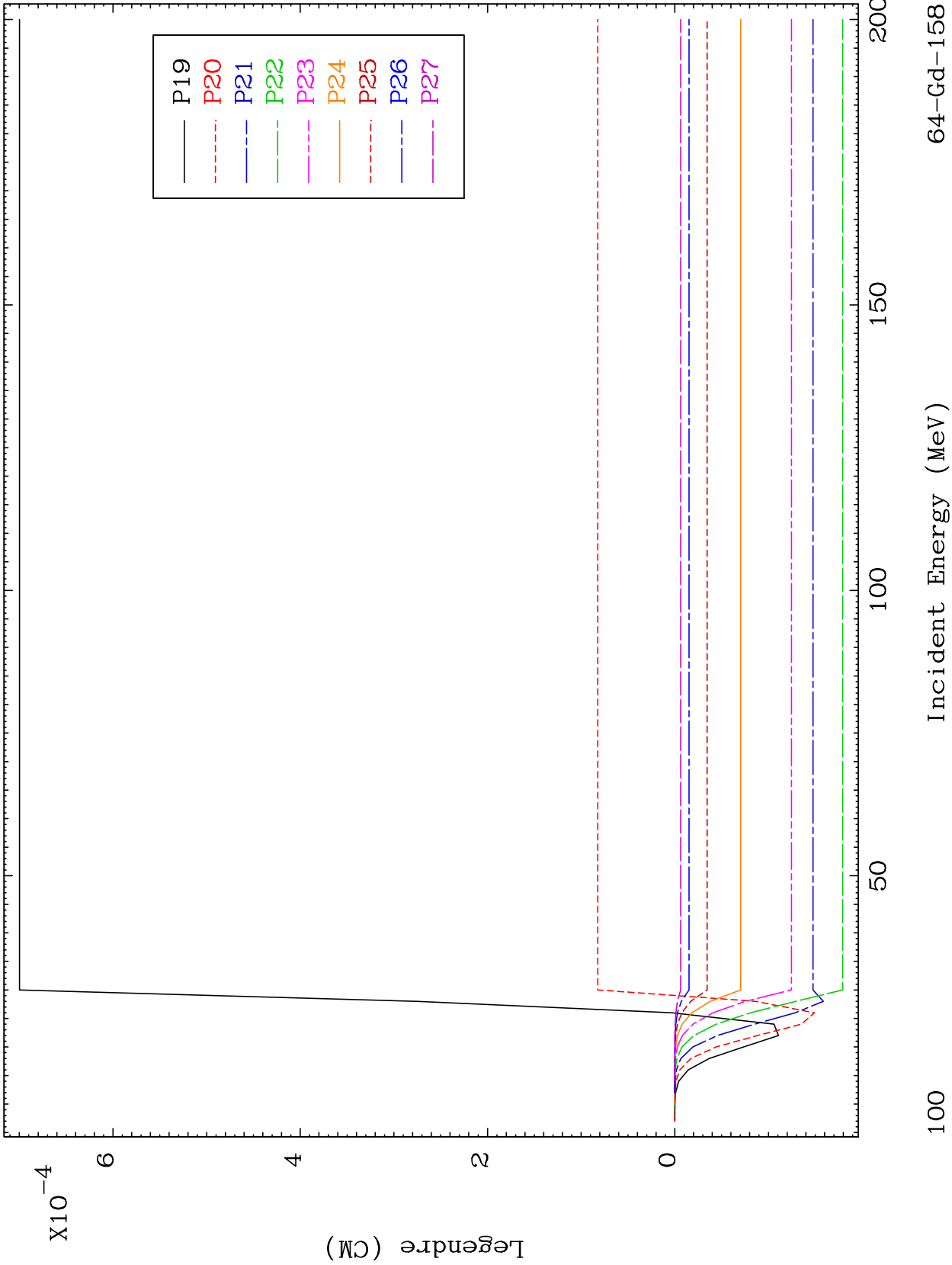
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



64-Gd-158

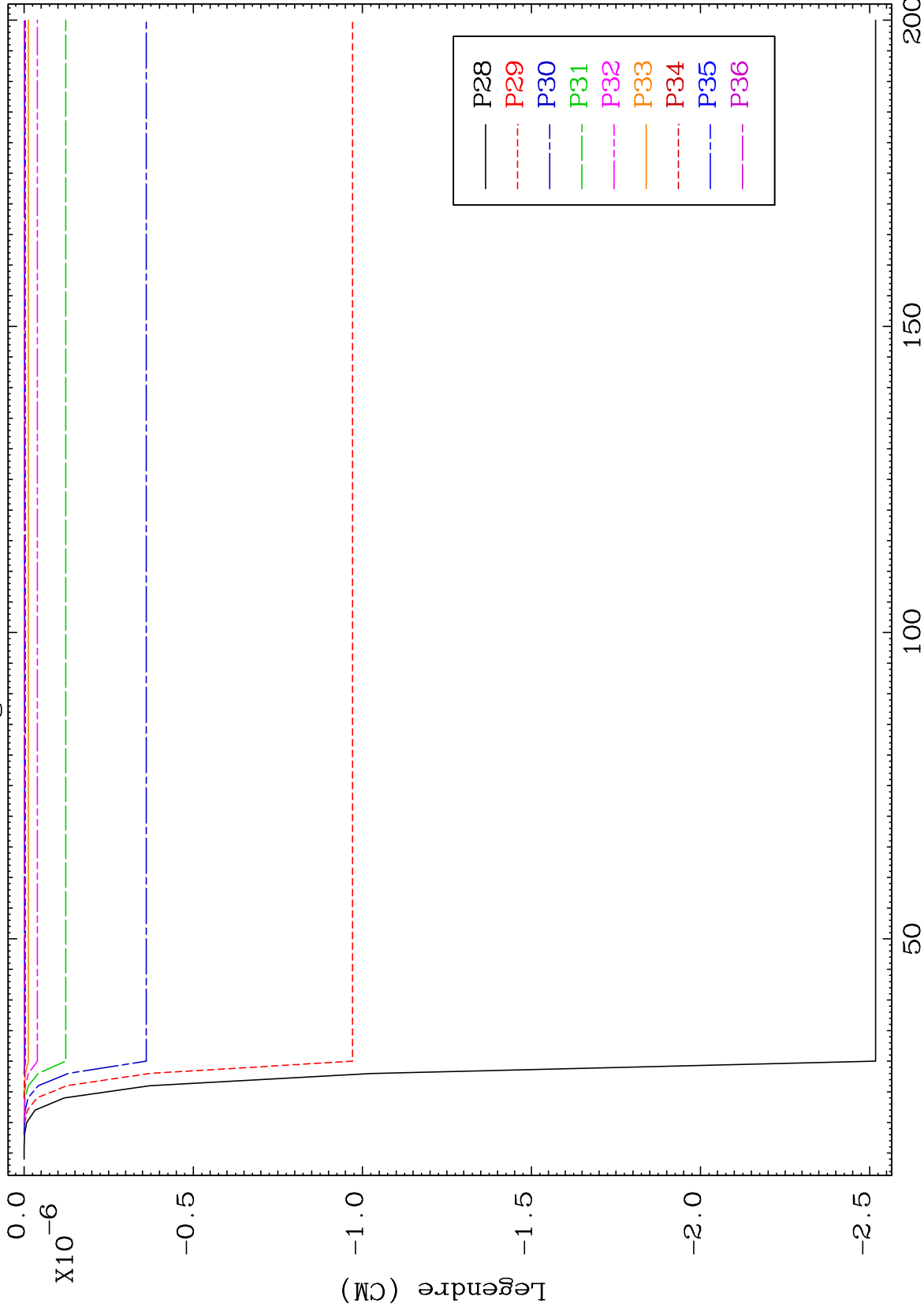
Incident Energy (MeV)

100

MAT 6443

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

64-Gd-158



101

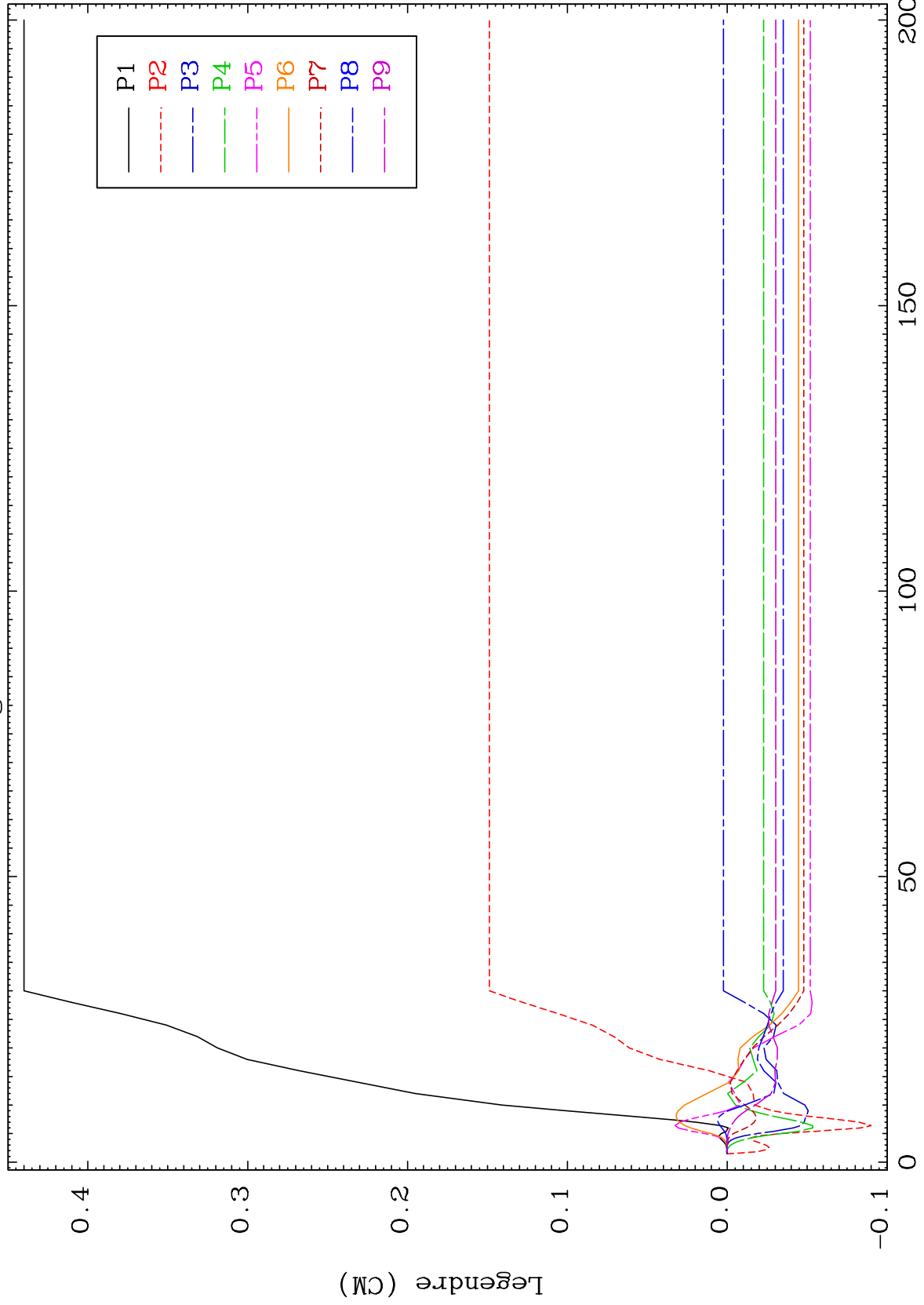
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



64-Gd-158

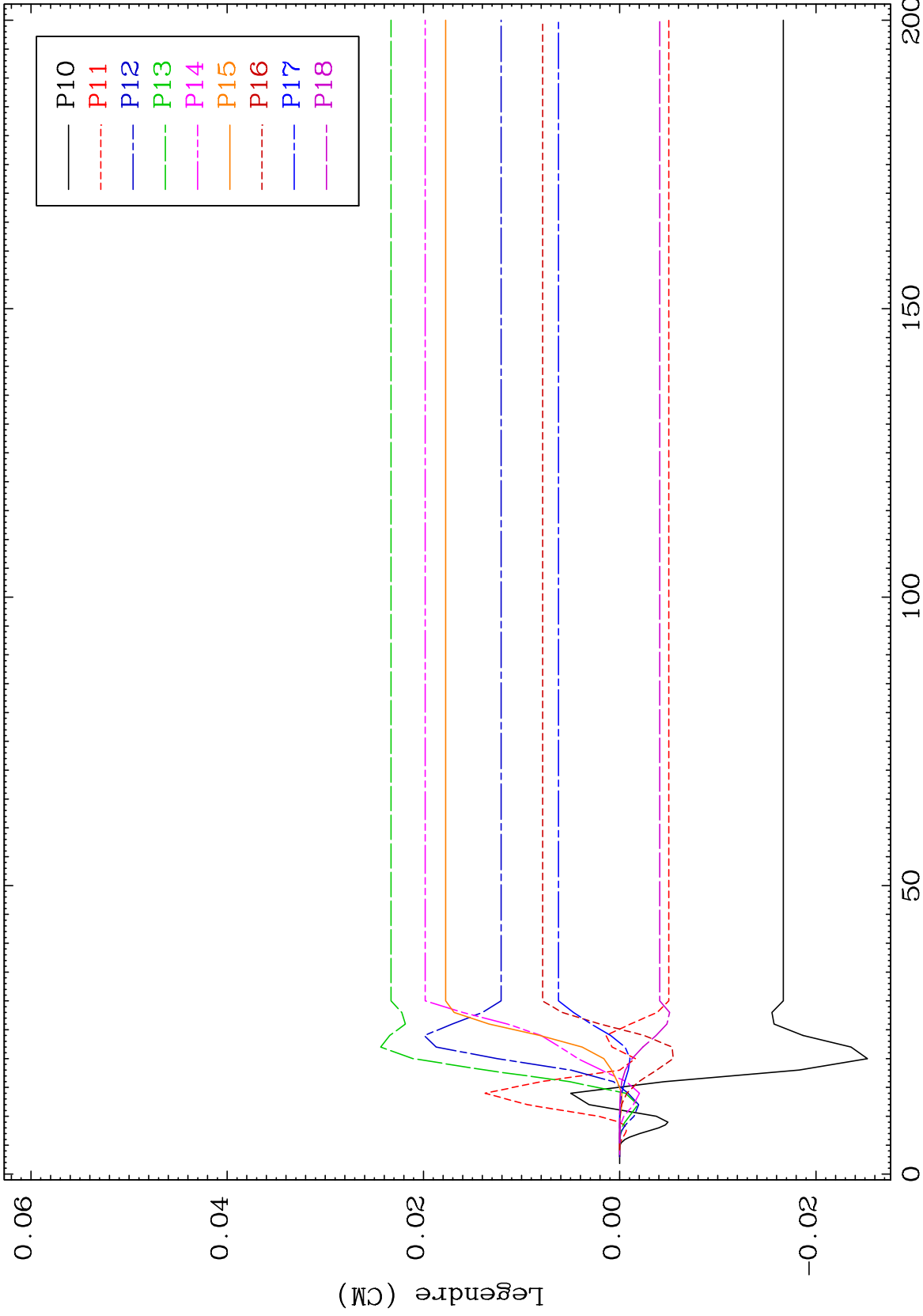
Incident Energy (MeV)

102

MAT 6443

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

64-Gd-158



103

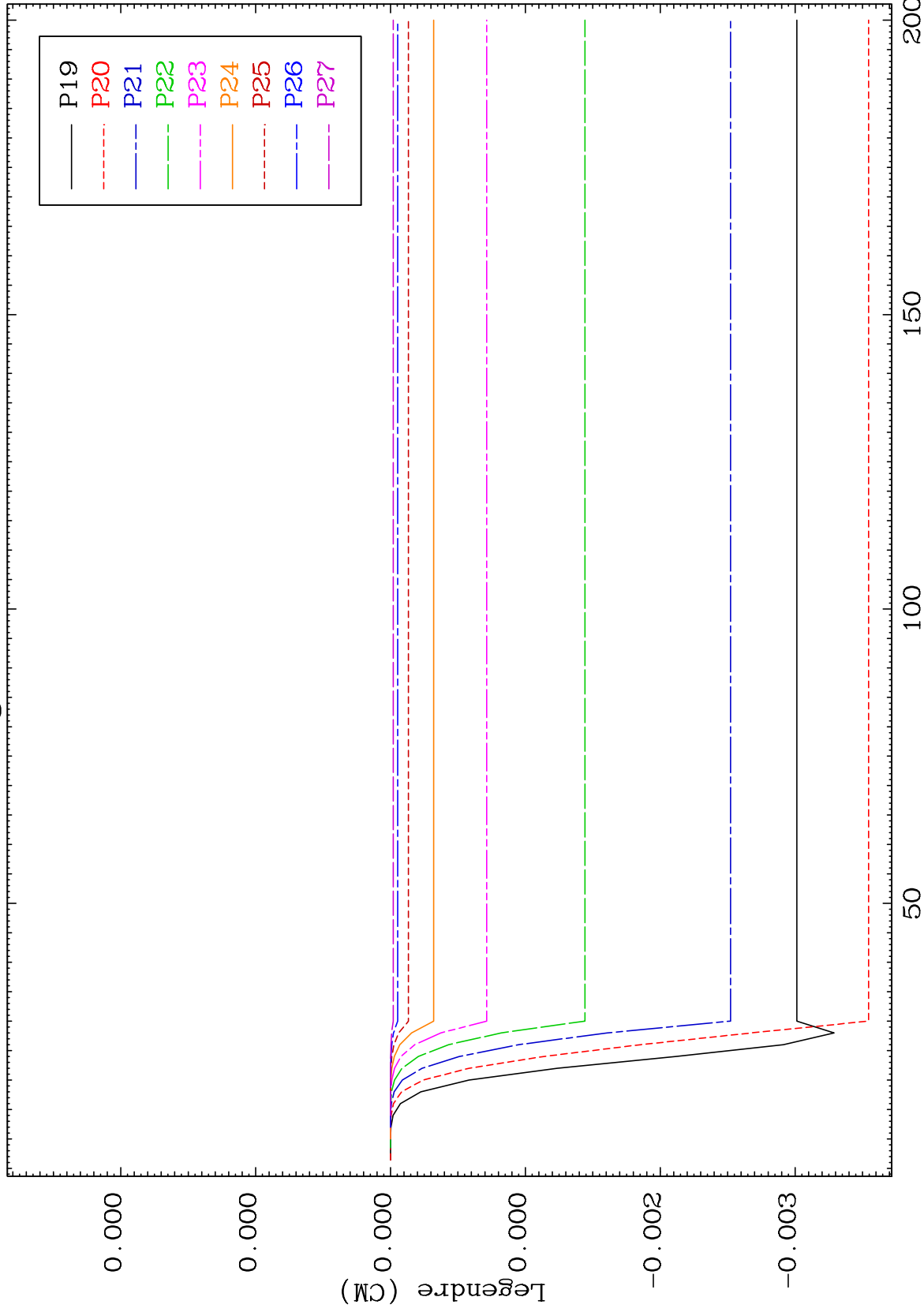
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



104

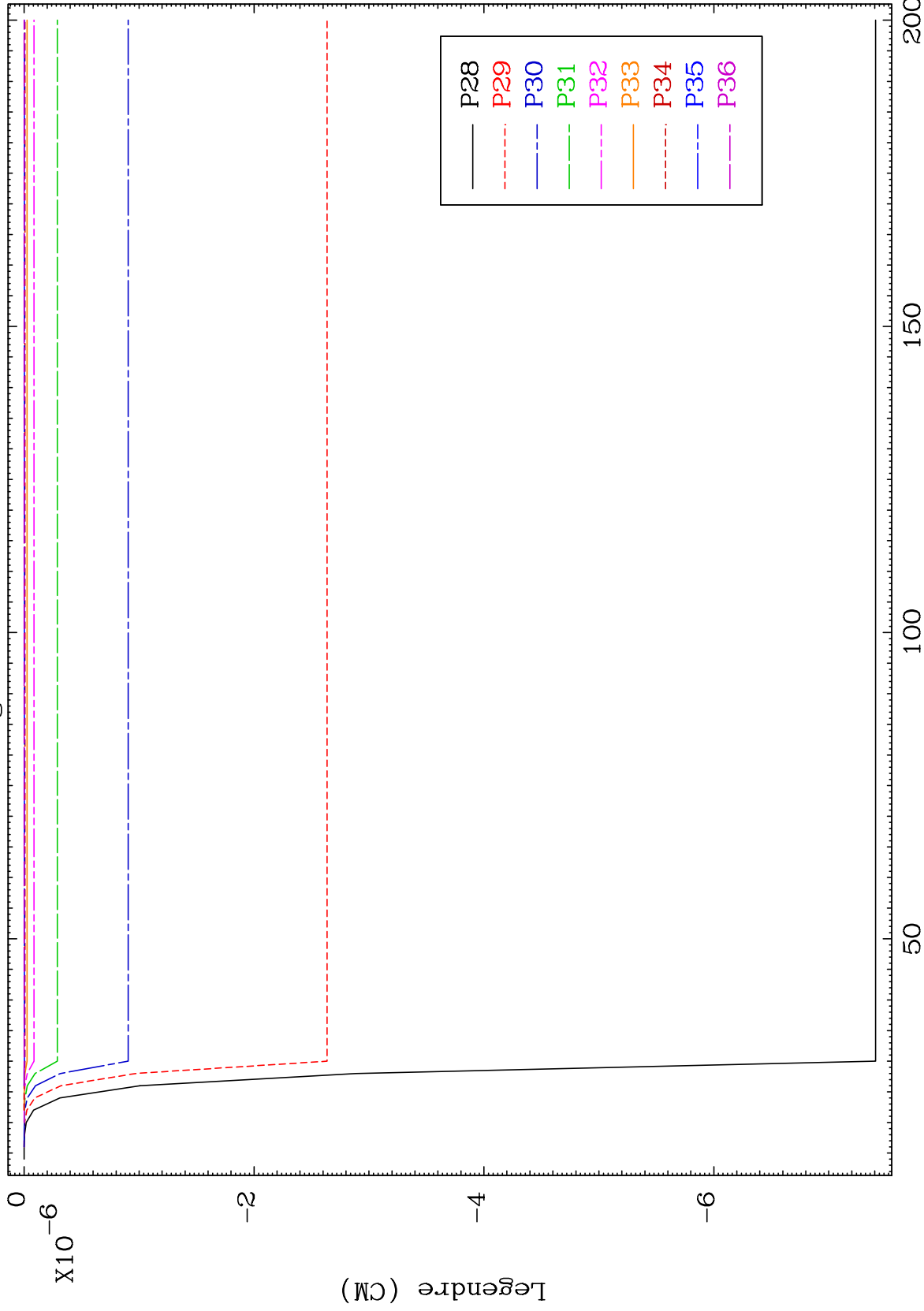
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



64-Gd-158

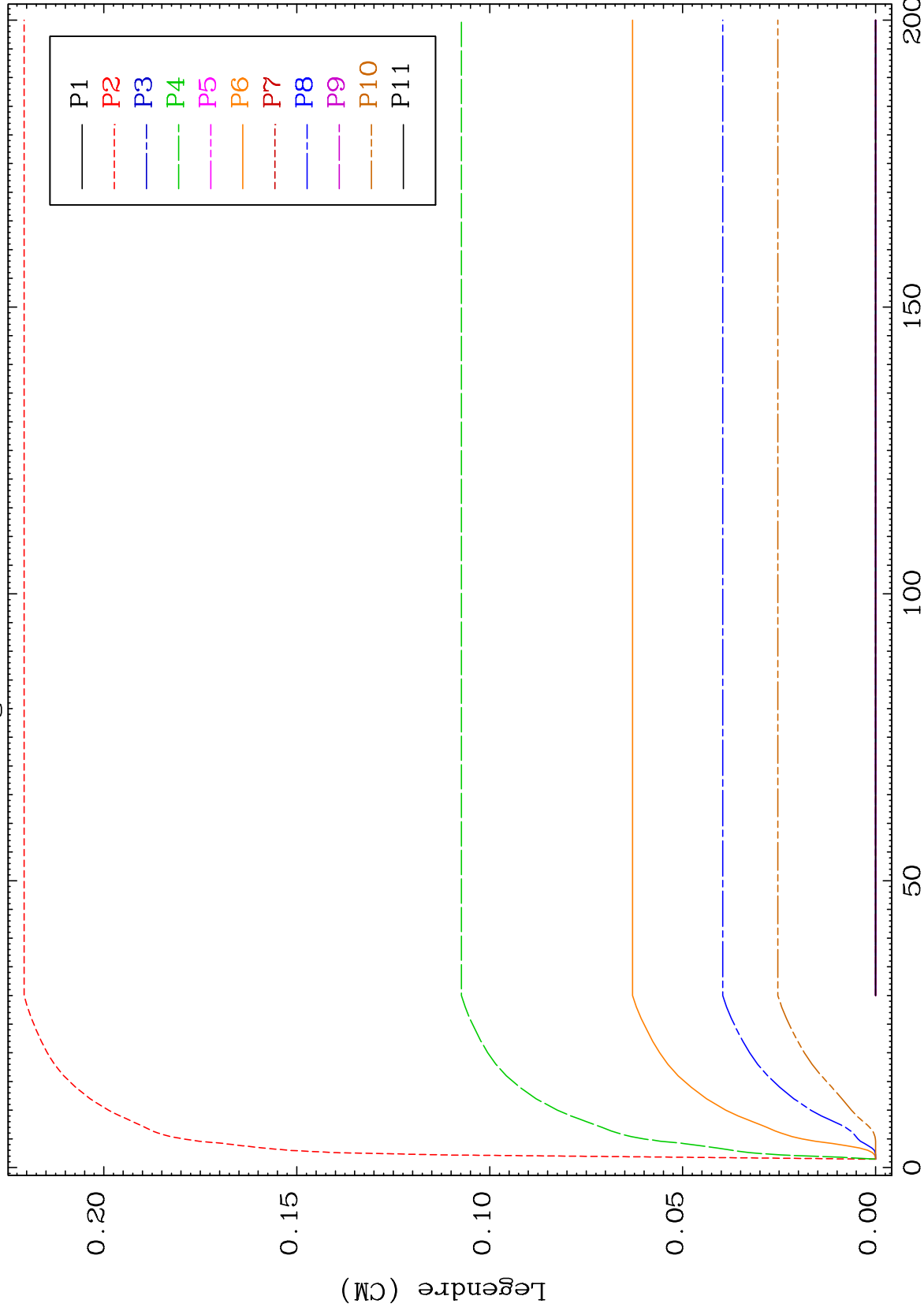
Incident Energy (MeV)

105

MAT 6443

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

64-Gd-158



106

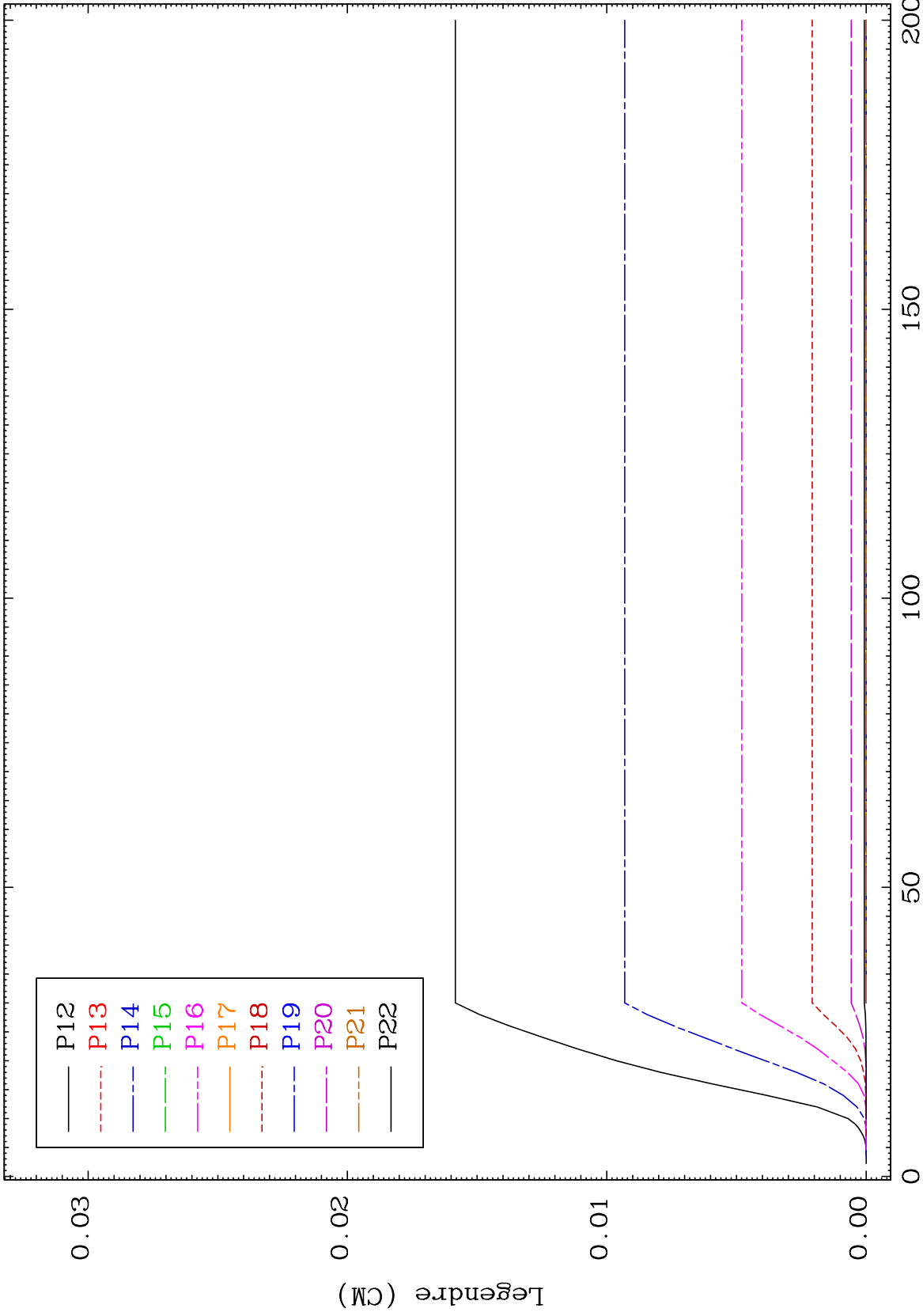
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



107

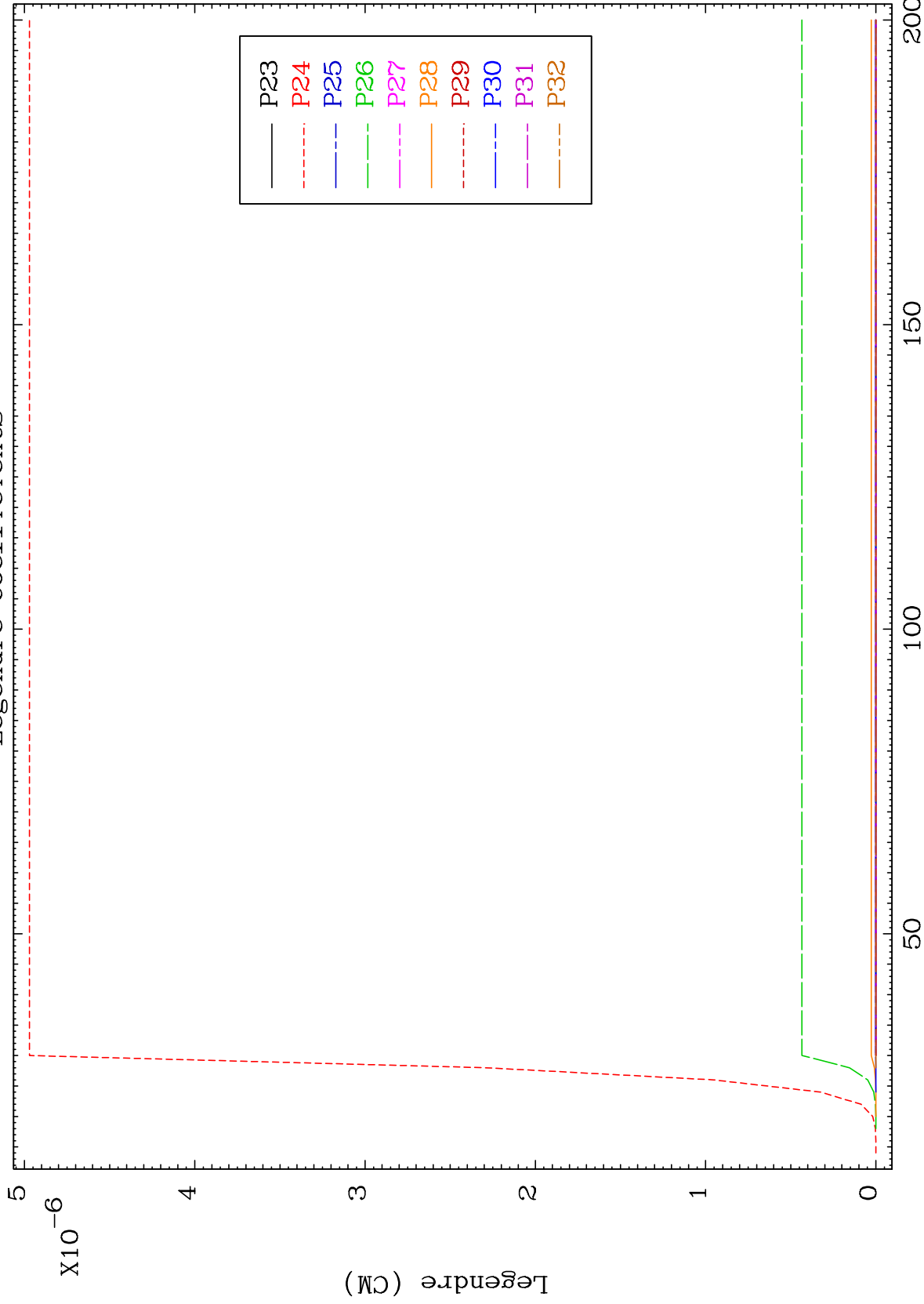
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



64-Gd-158

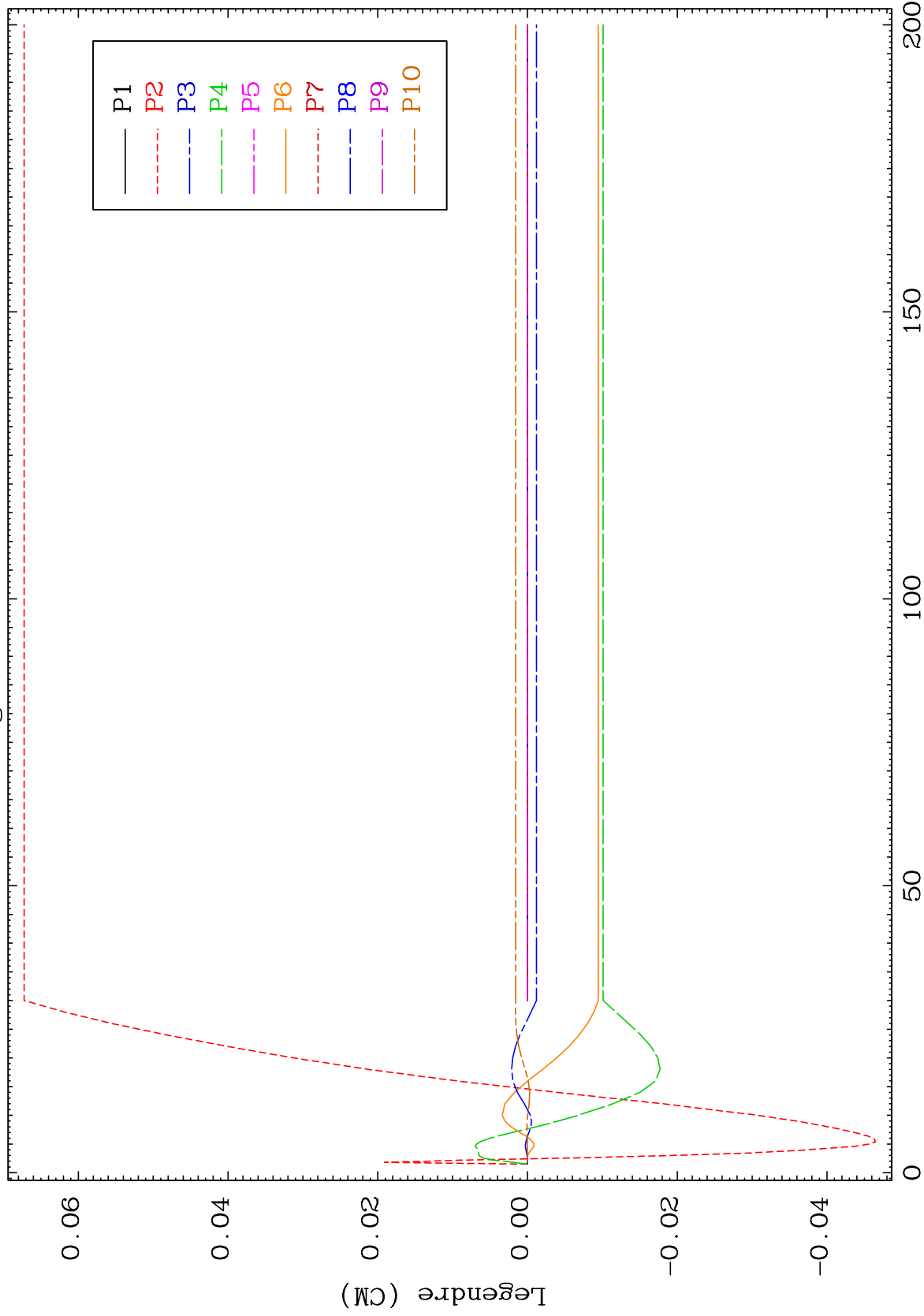
Incident Energy (MeV)

108

MAT 6443

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

64-Gd-158

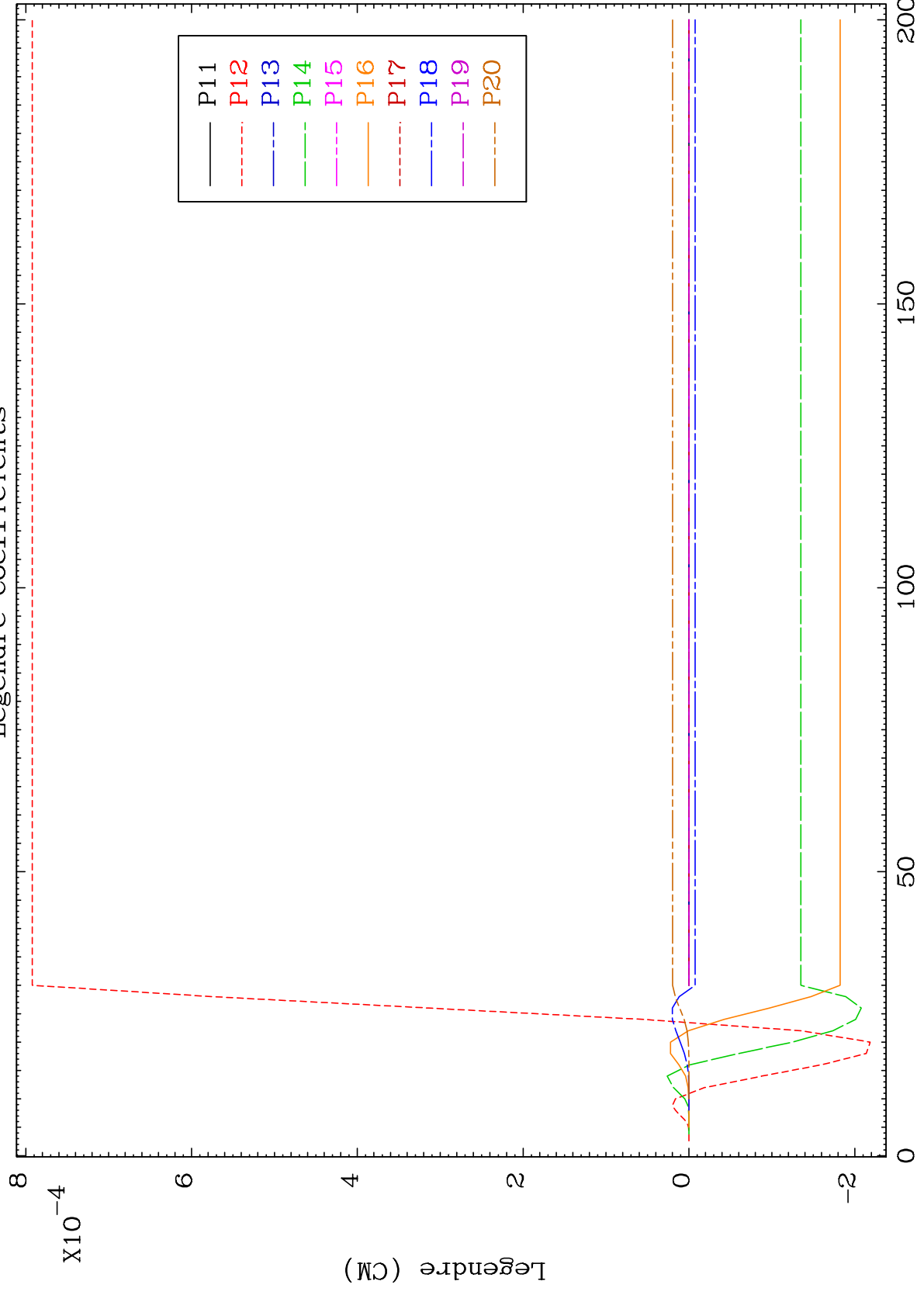


109

Incident Energy (MeV)

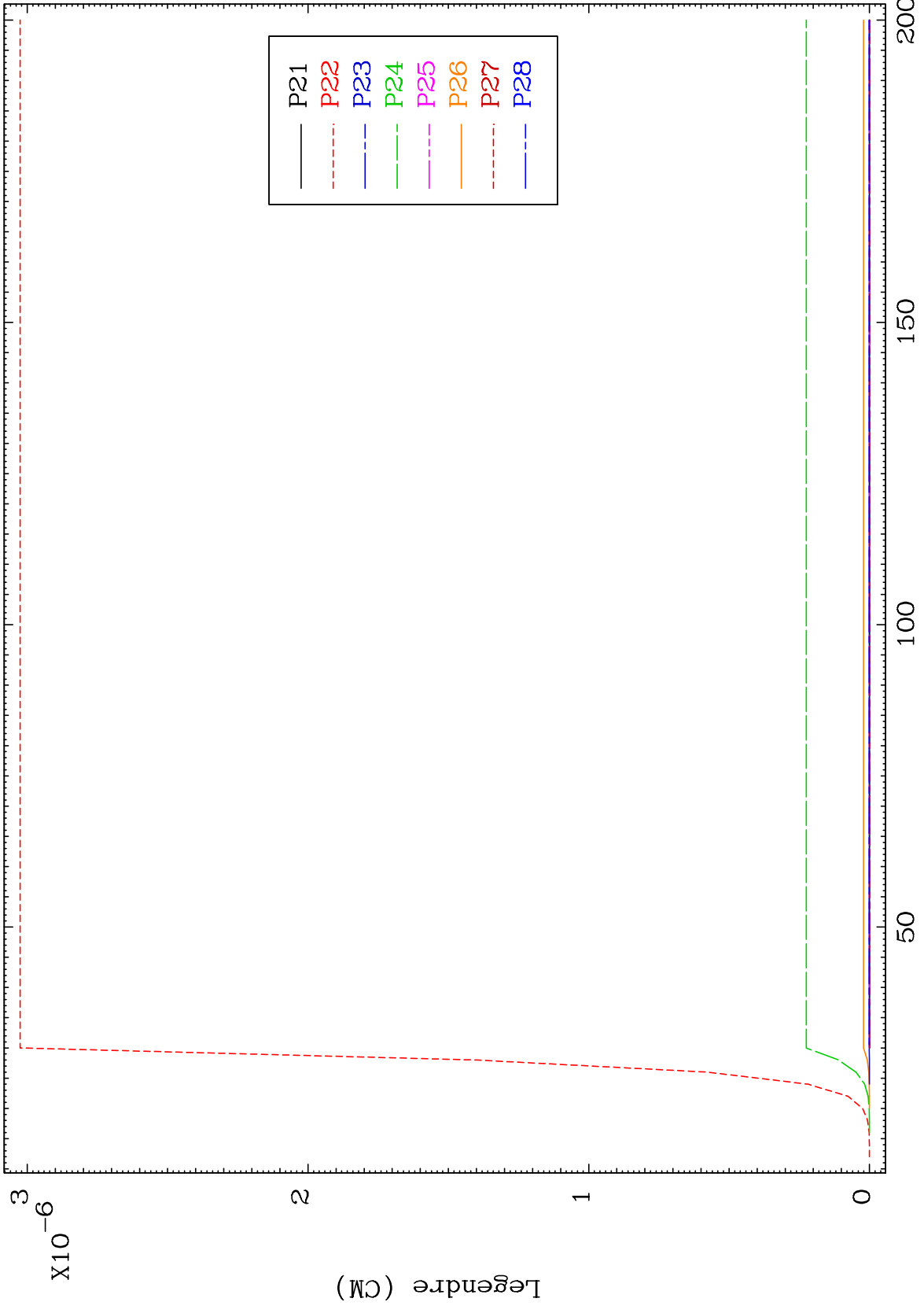
64-Gd-158

MAT 6443 MT= 75 (n,n') Level Legendre Coefficients 64-Gd-158



110 Incident Energy (MeV) 64-Gd-158

MAT 6443 MT= 75 (n,n') Level Legendre Coefficients 64-Gd-158

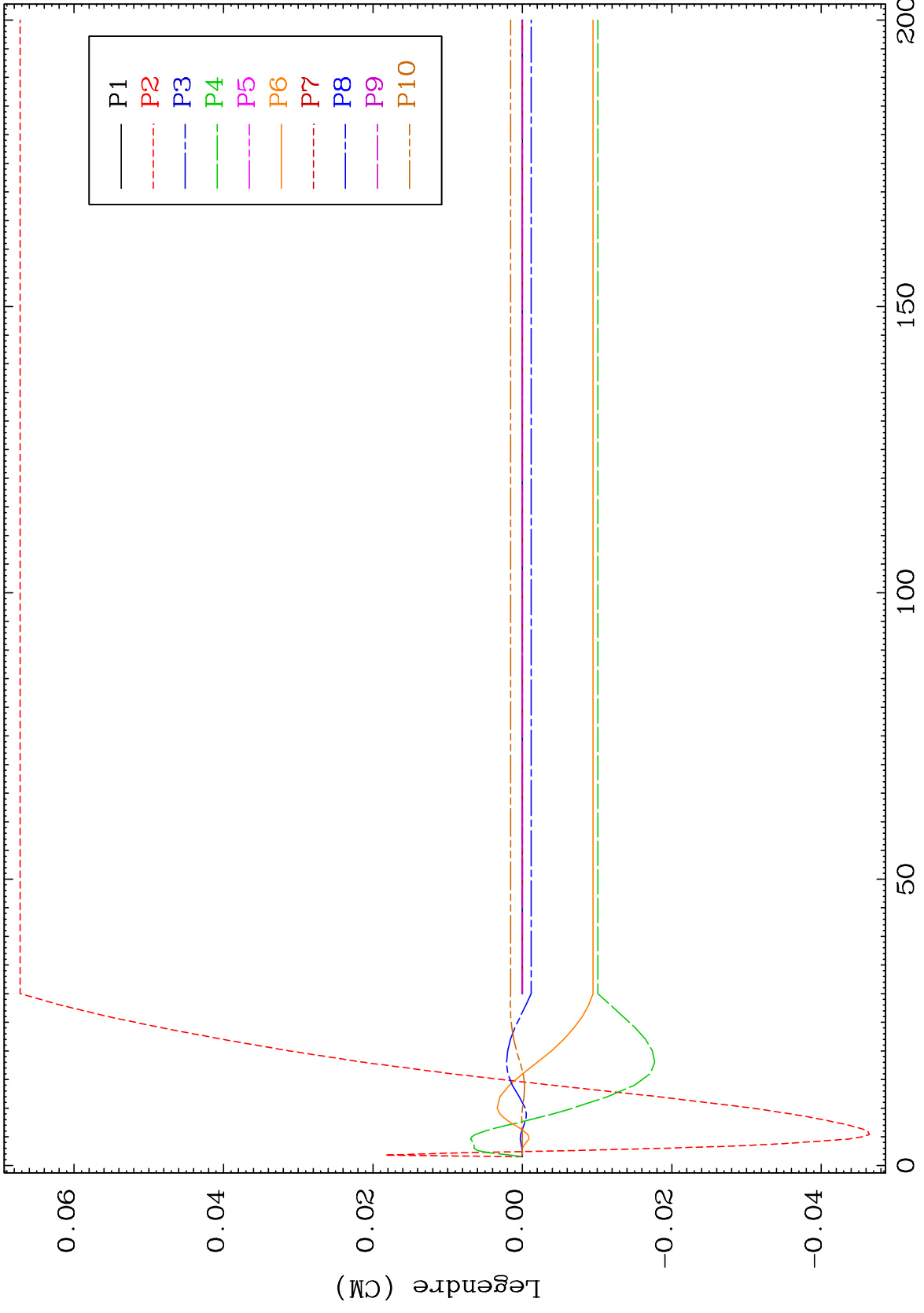


111 Incident Energy (MeV) 64-Gd-158

MAT 6443

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

64-Gd-158

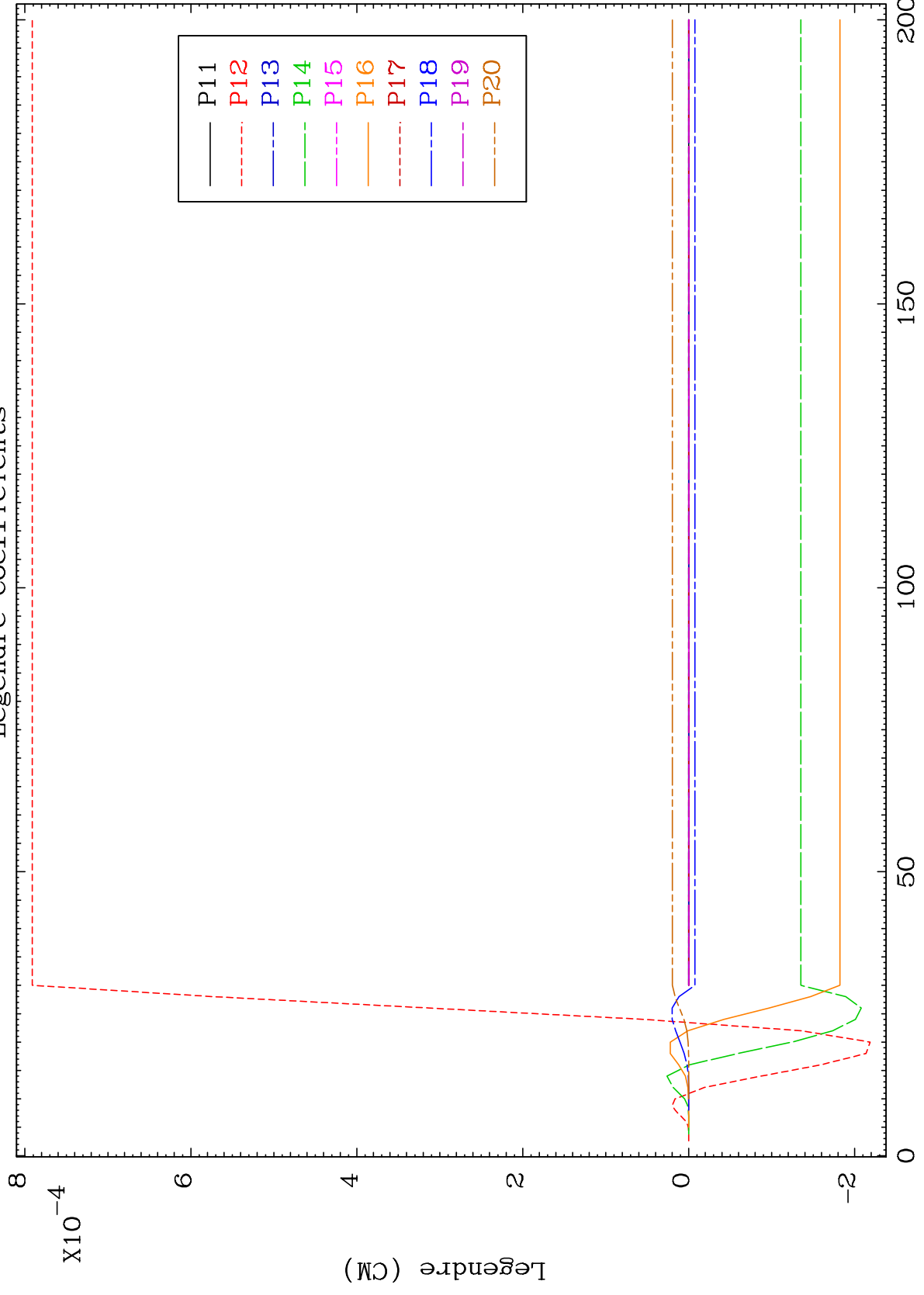


112

Incident Energy (MeV)

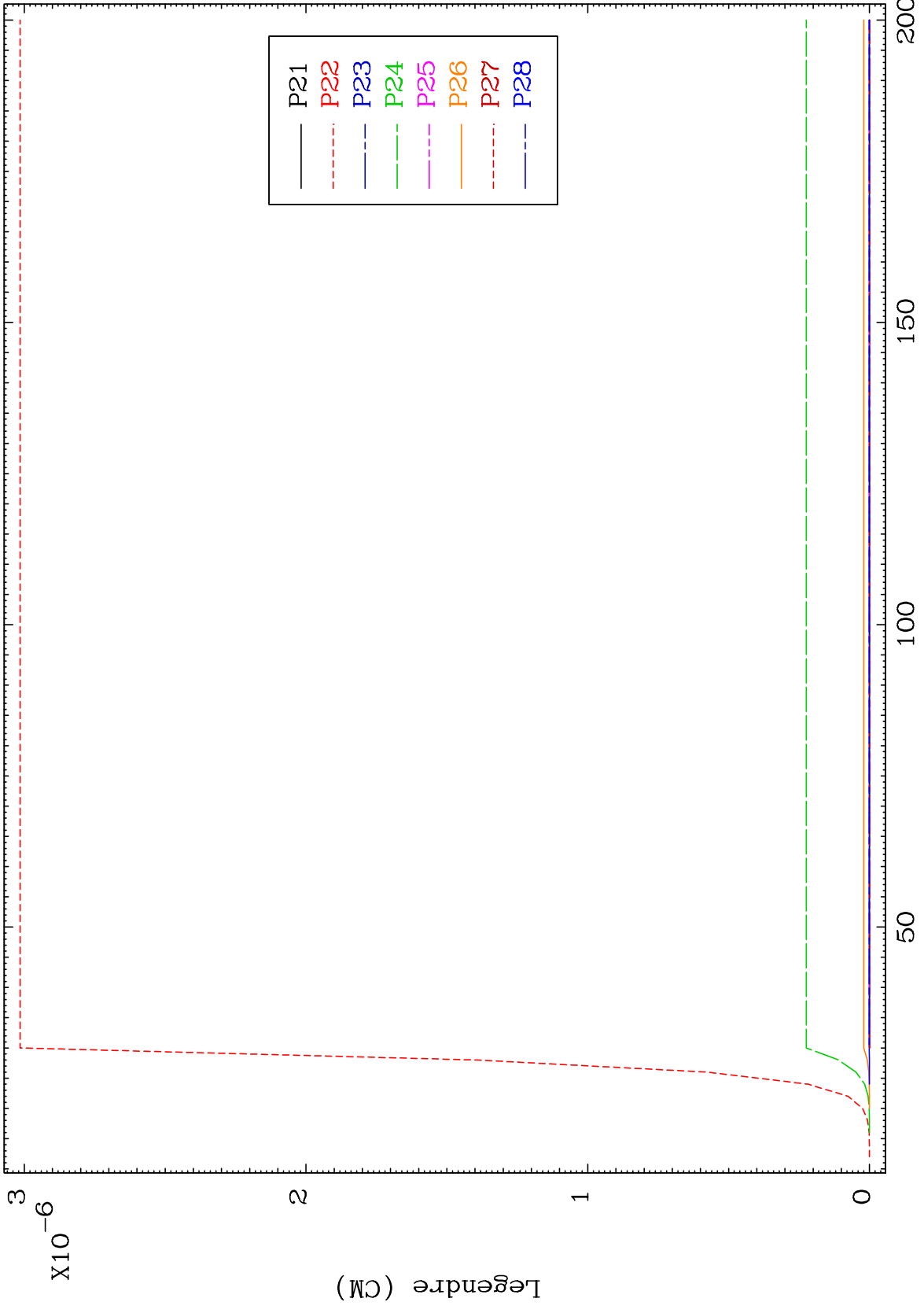
64-Gd-158

MAT 6443 MT= 76 (n,n') Level Legendre Coefficients 64-Gd-158



113 64-Gd-158

MAT 6443 MT= 76 (n,n') Level Legendre Coefficients 64-Gd-158

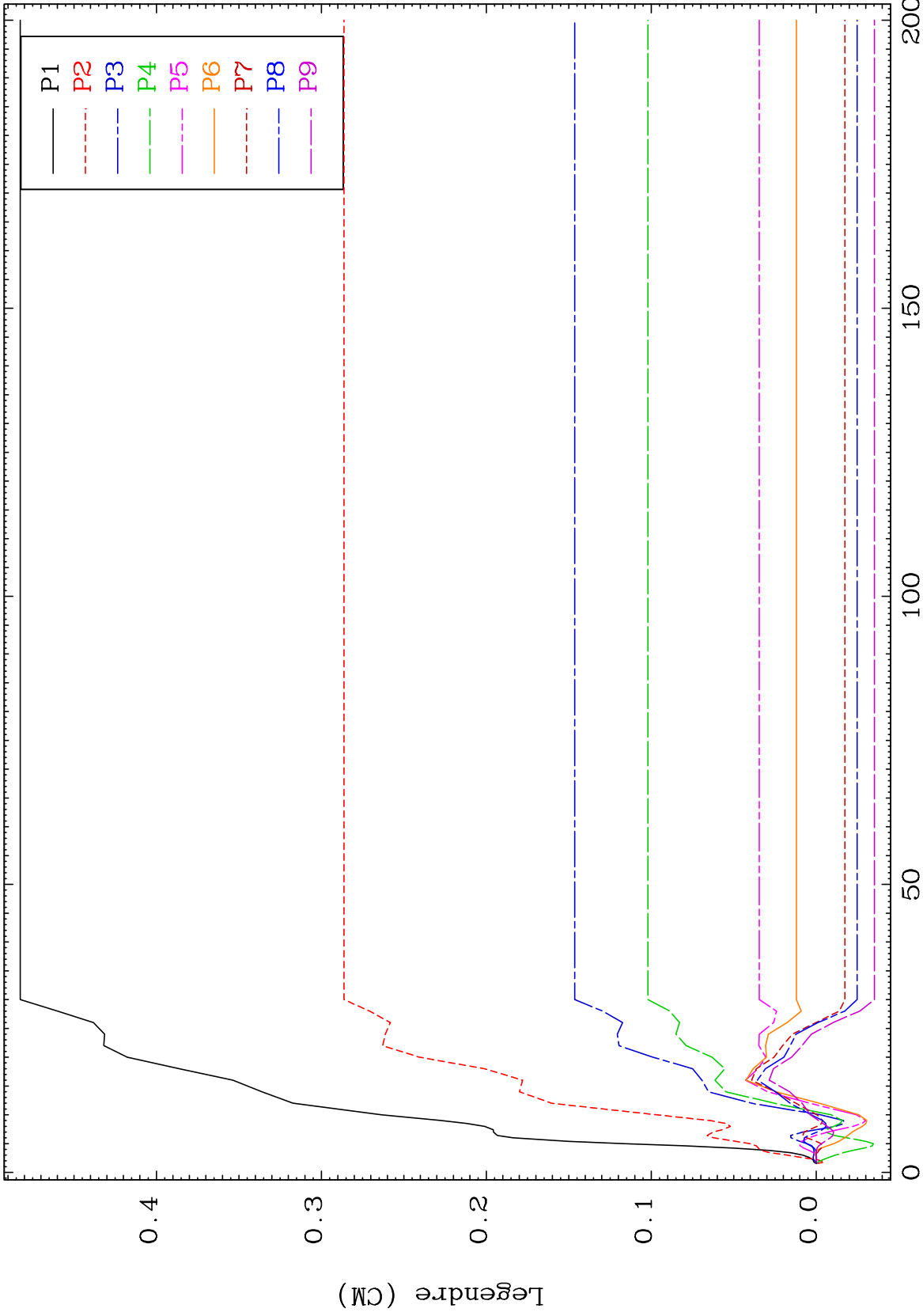


114 64-Gd-158

MAT 6443

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

64-Gd-158



64-Gd-158

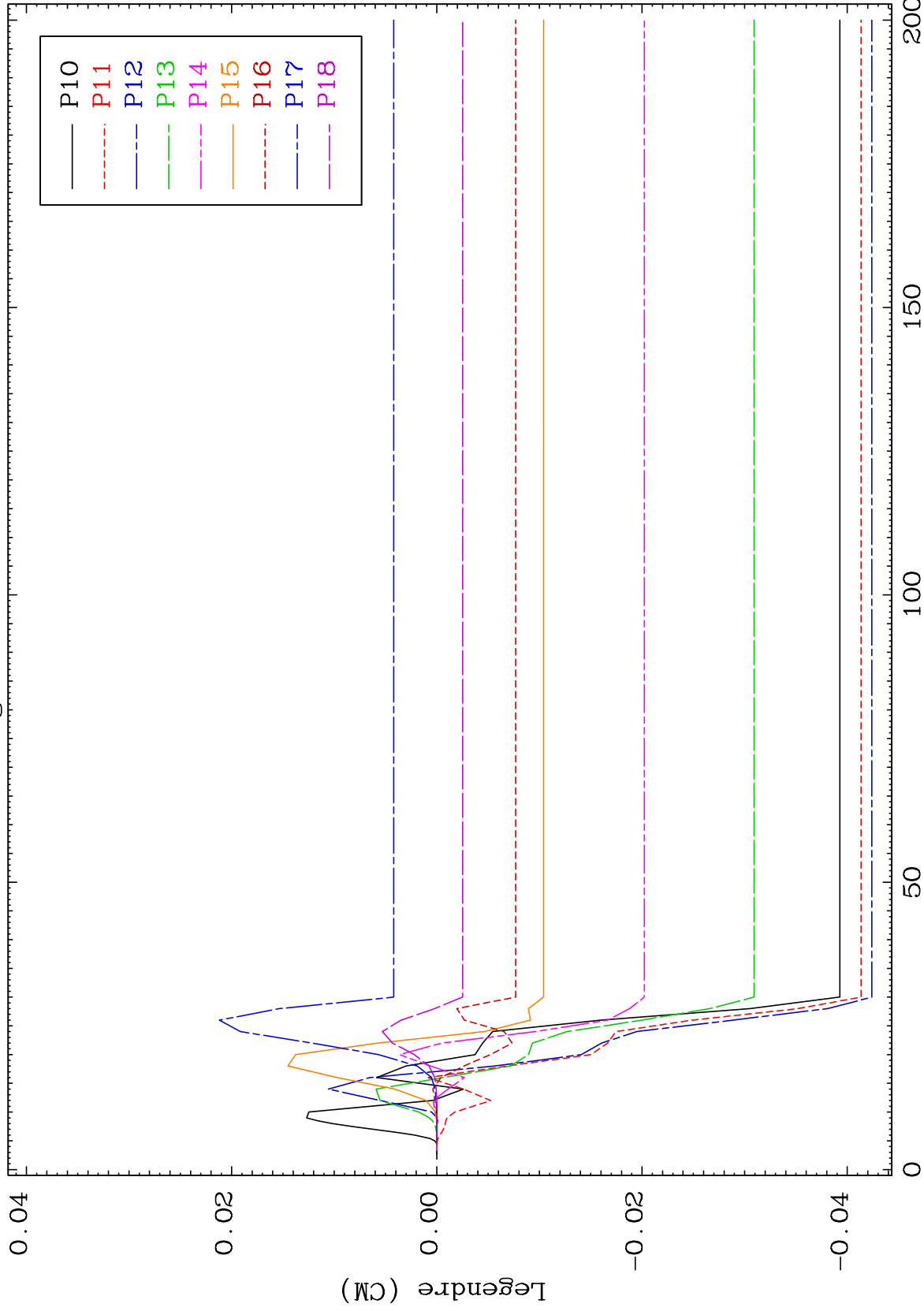
Incident Energy (MeV)

115

MAT 6443

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

64-Gd-158



116

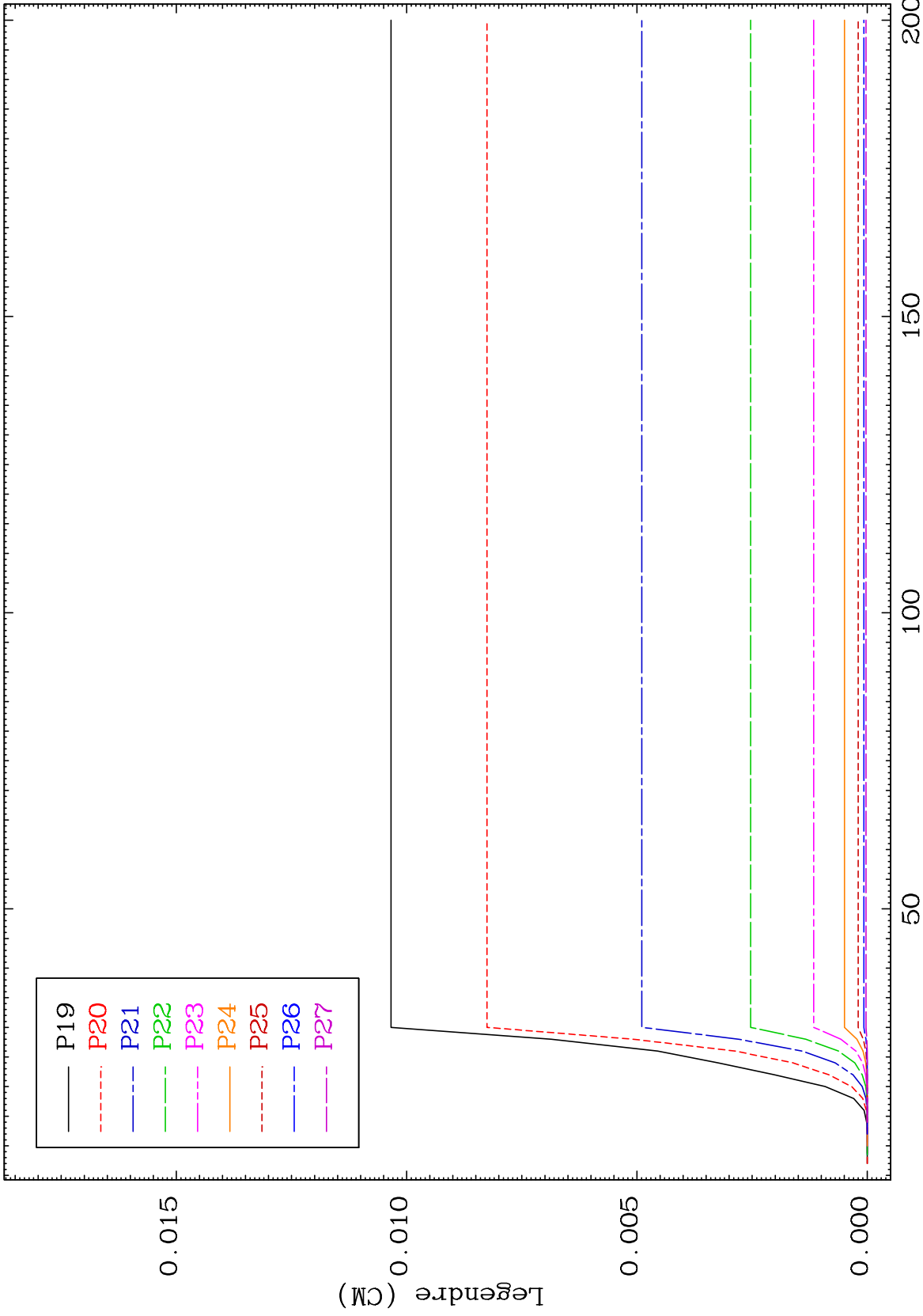
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



117

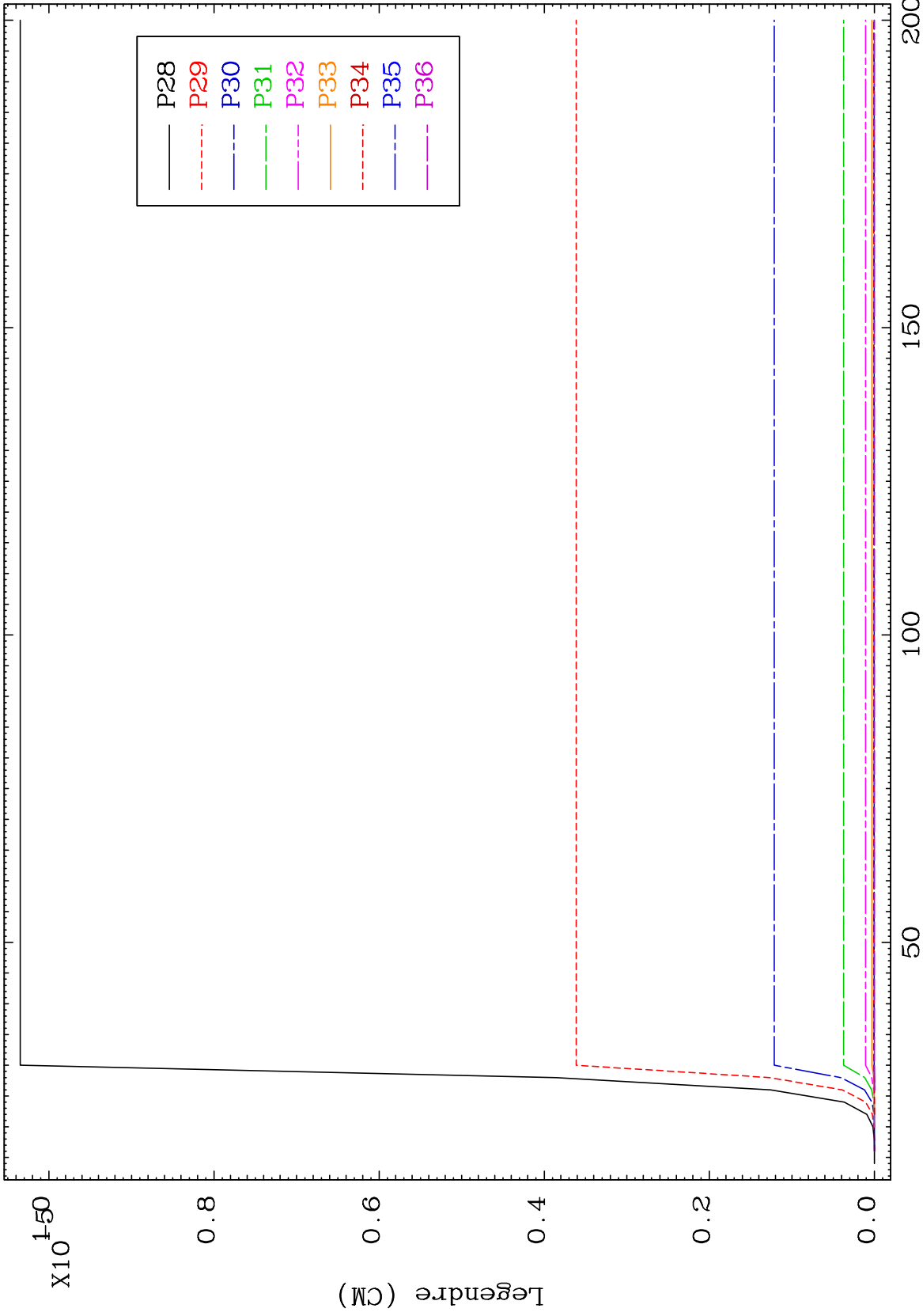
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



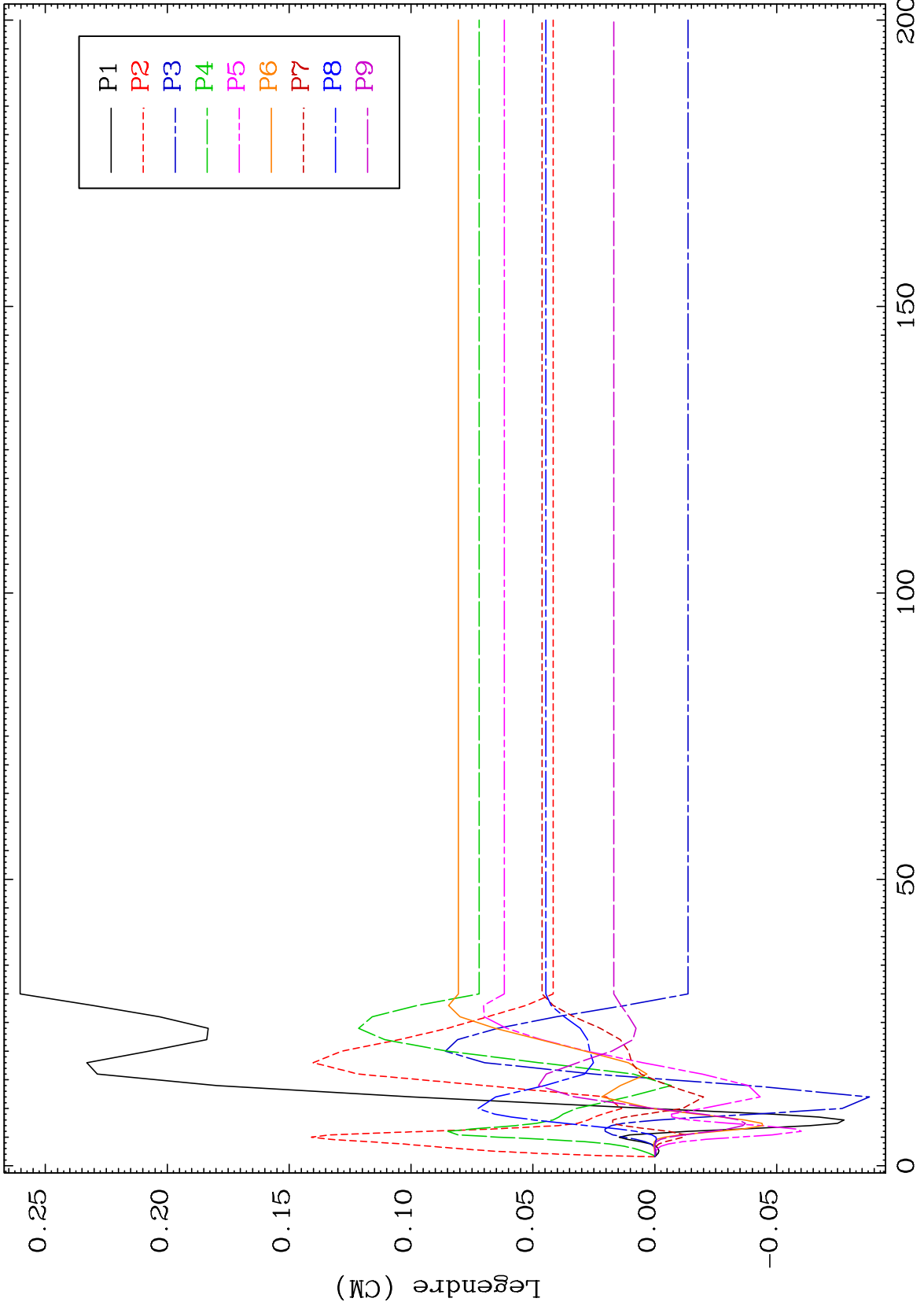
118

64-Gd-158

MAT 6443

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

64-Gd-158



119

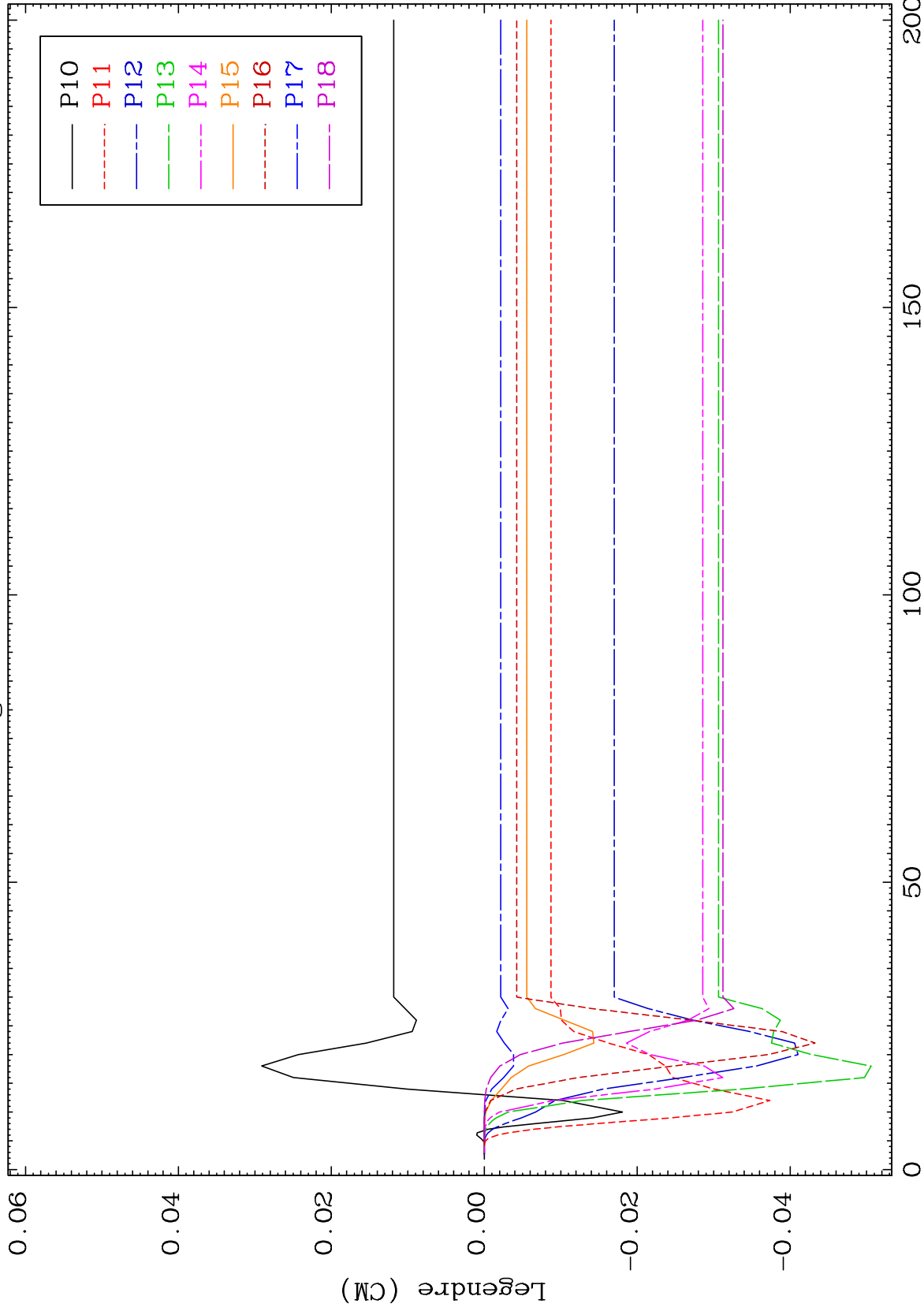
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



64-Gd-158

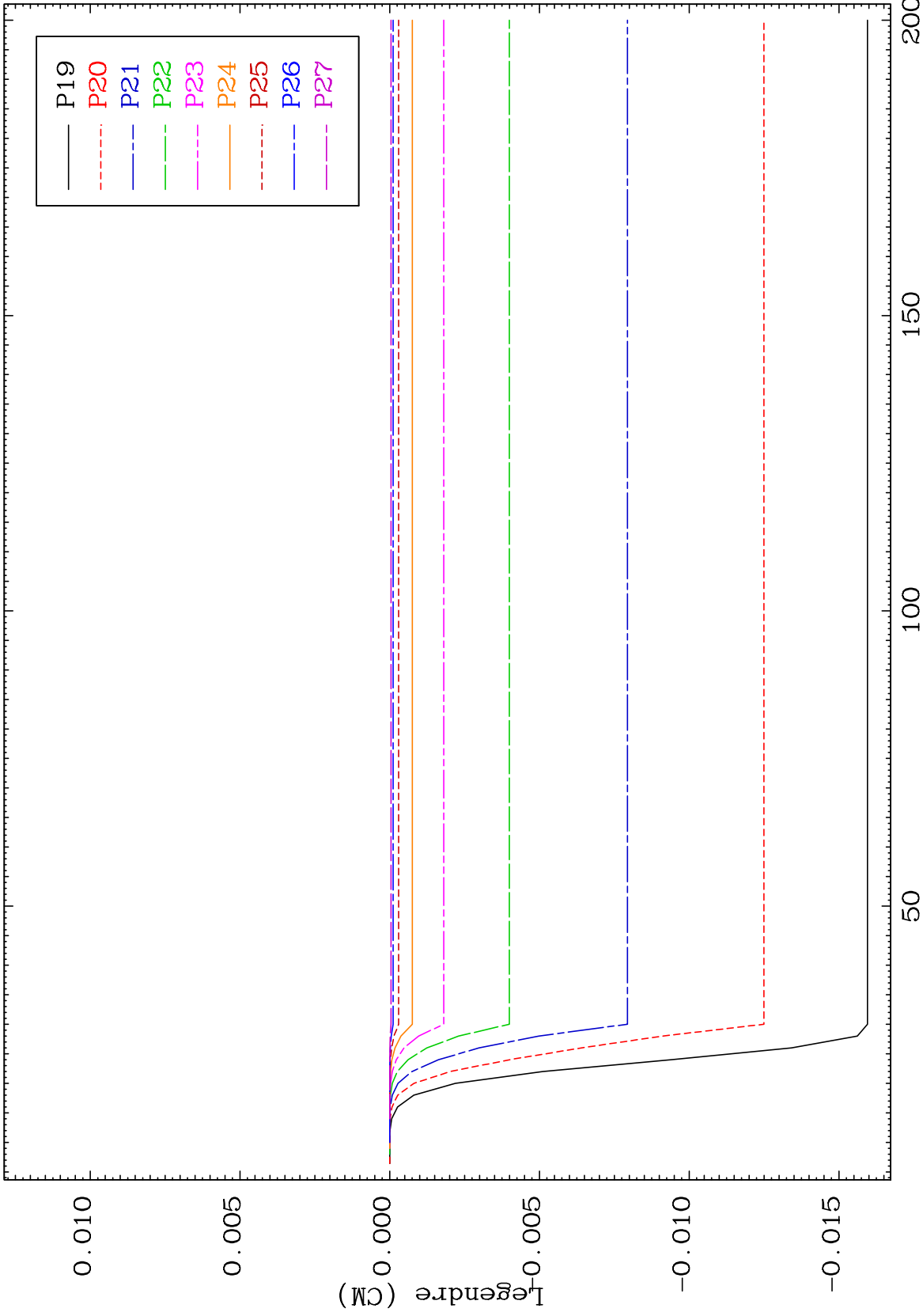
Incident Energy (MeV)

120

MAT 6443

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

64-Gd-158



121

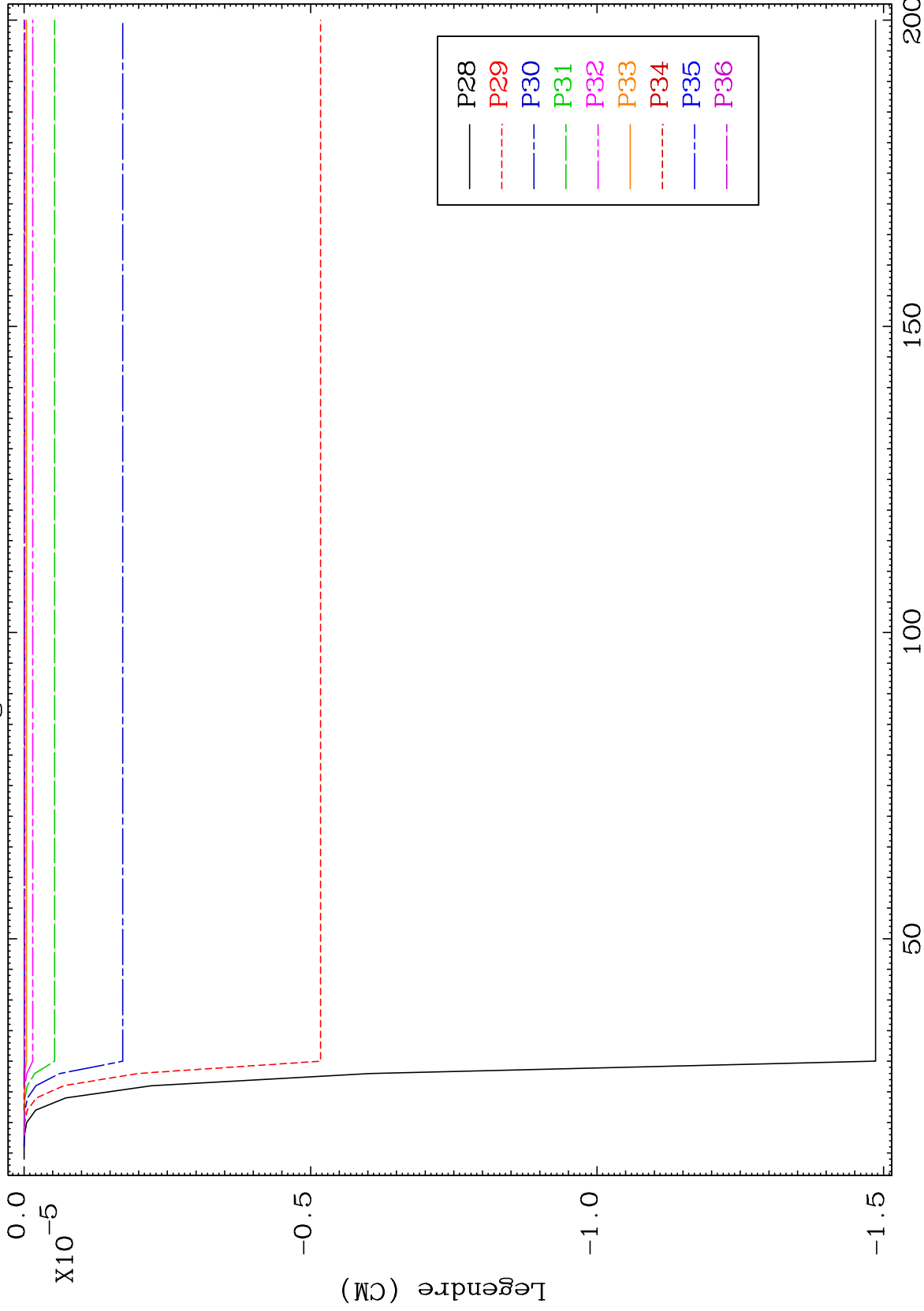
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



122

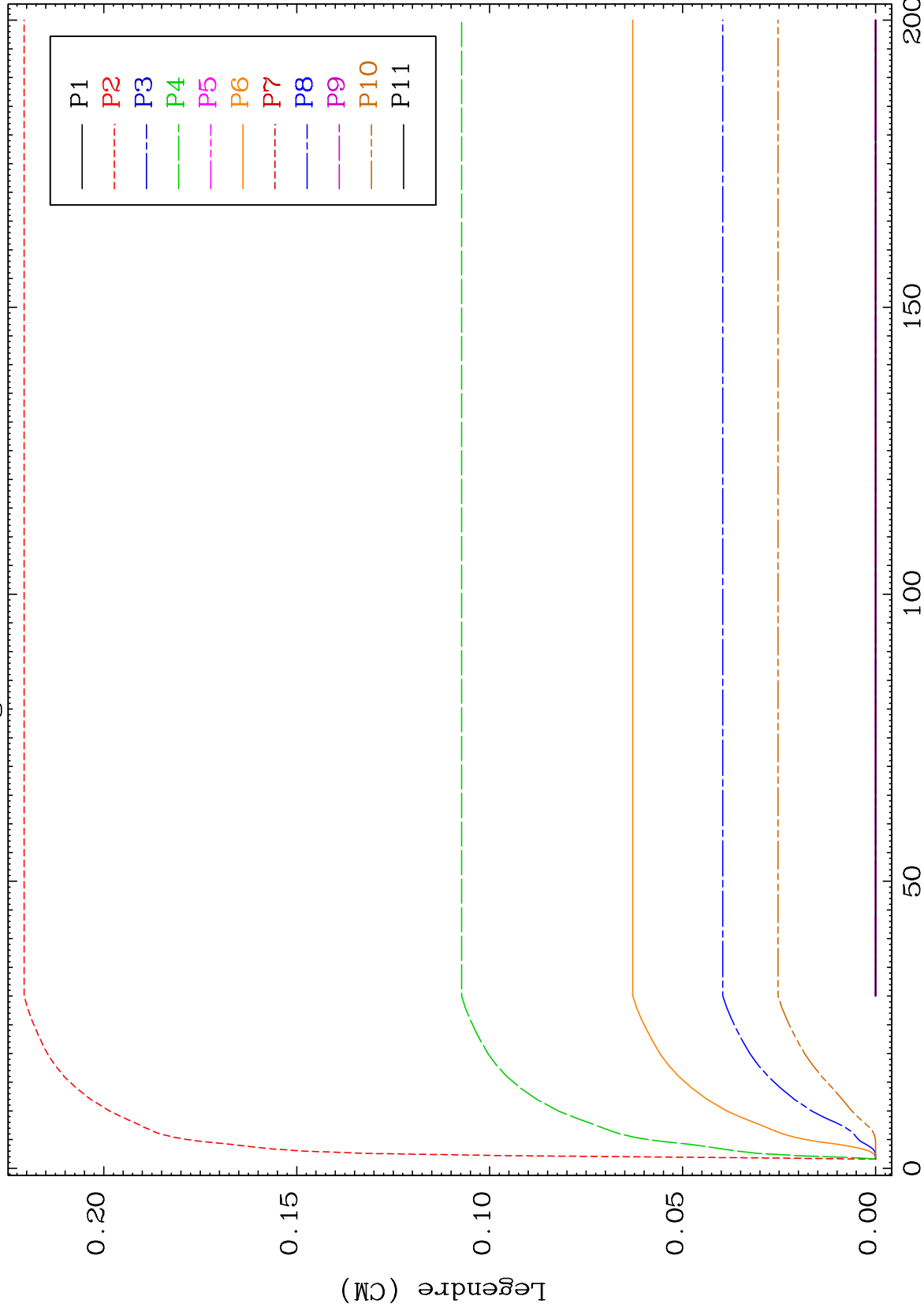
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158

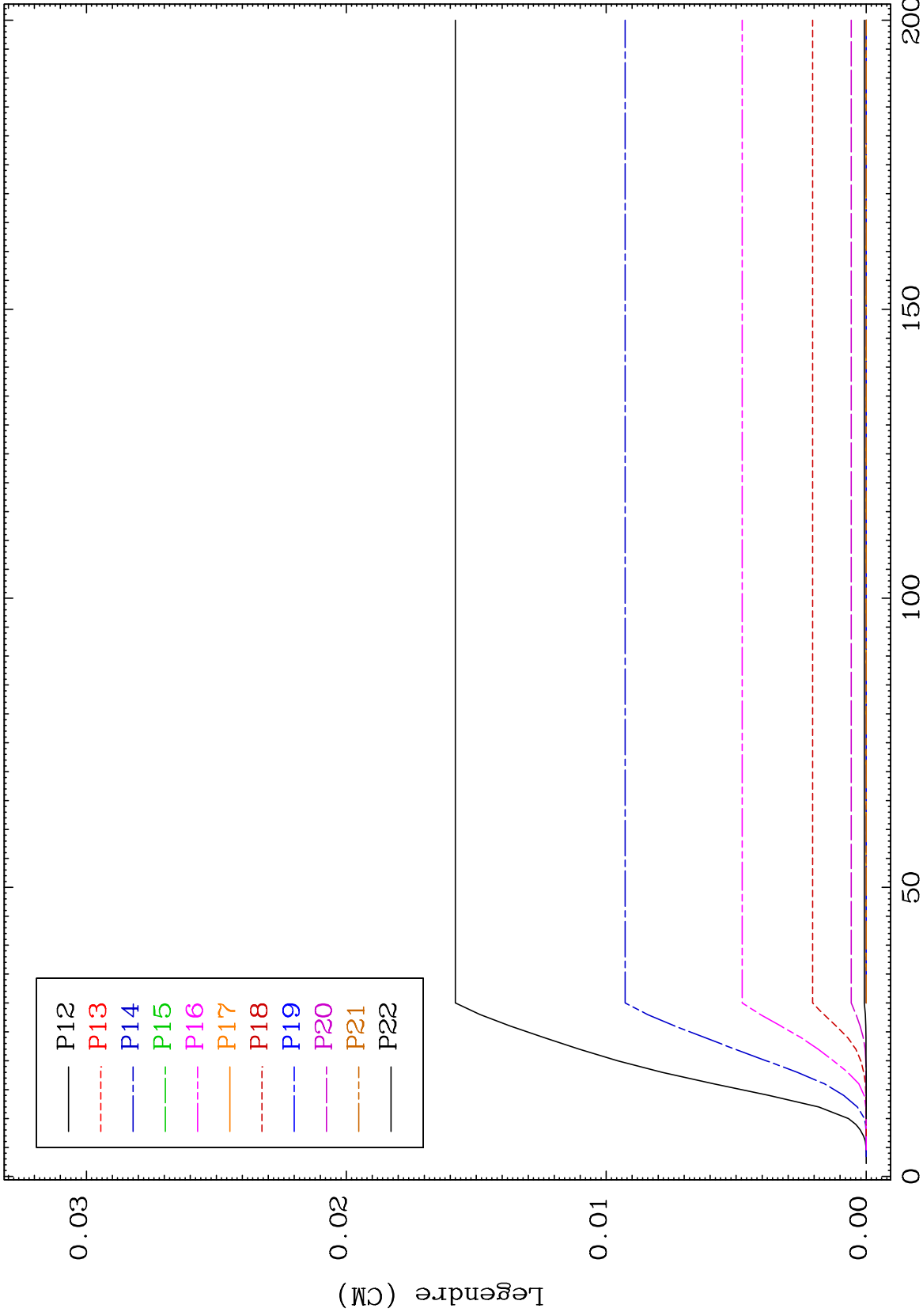


123

MAT 6443

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

64-Gd-158



124

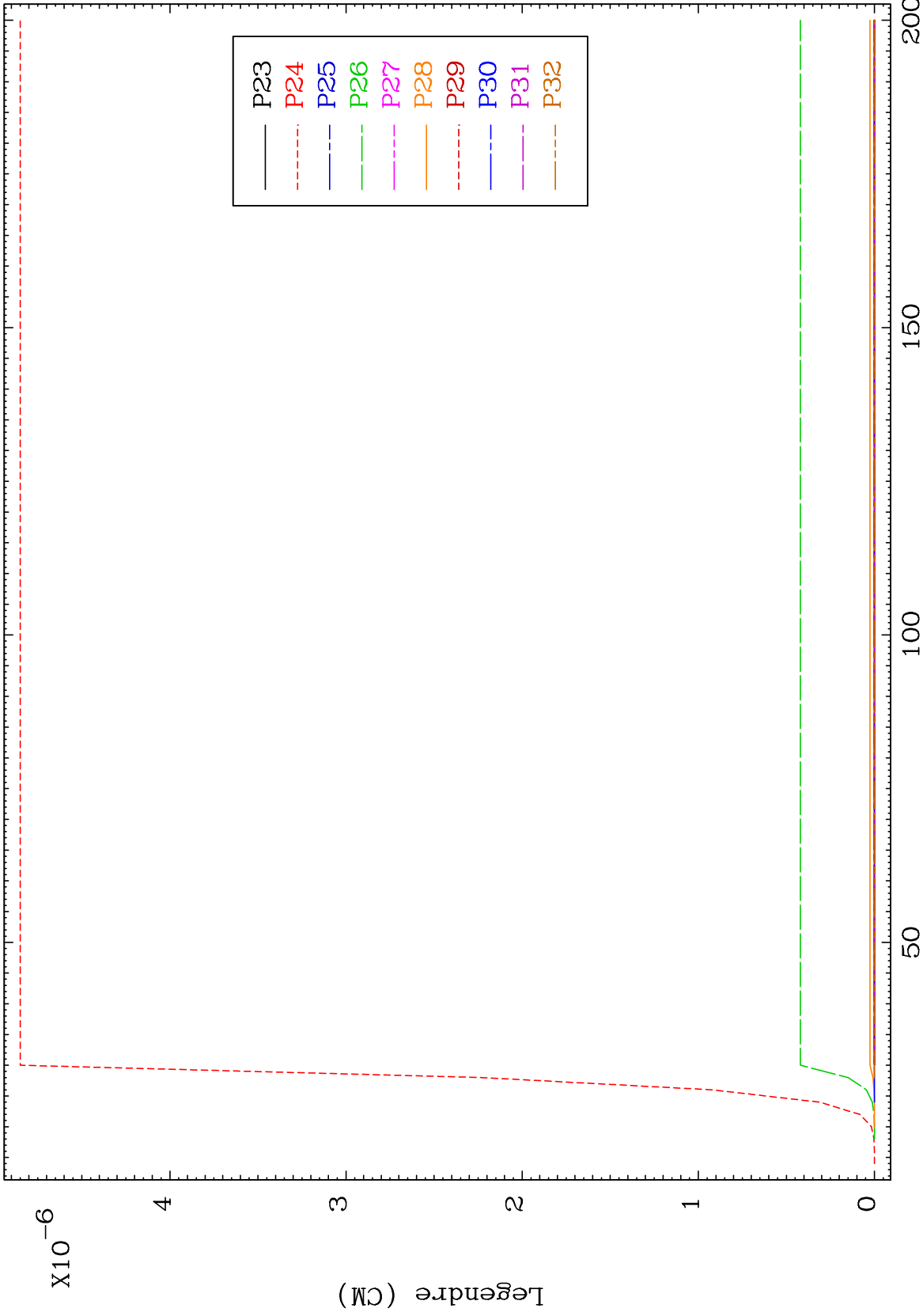
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



125

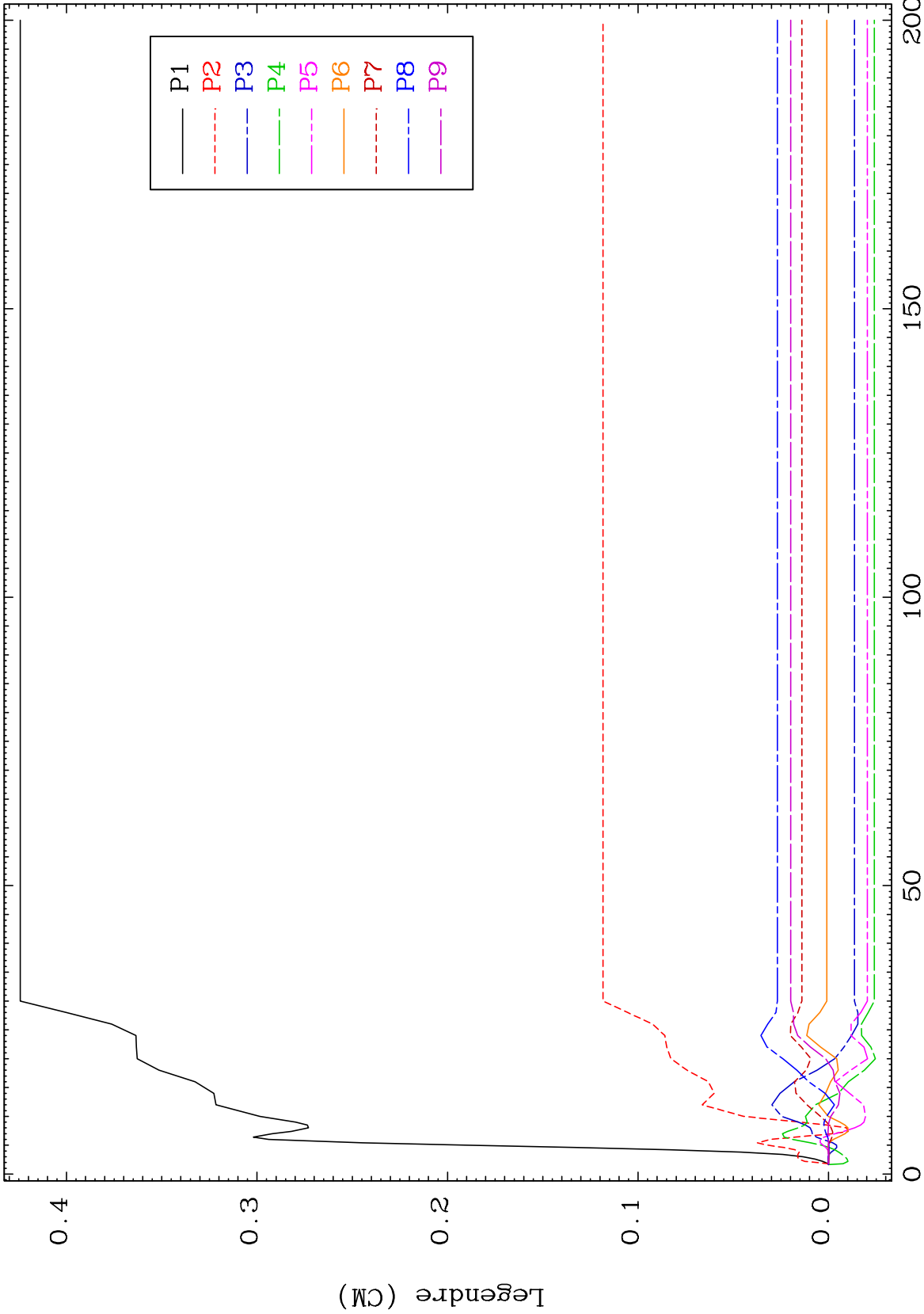
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



126

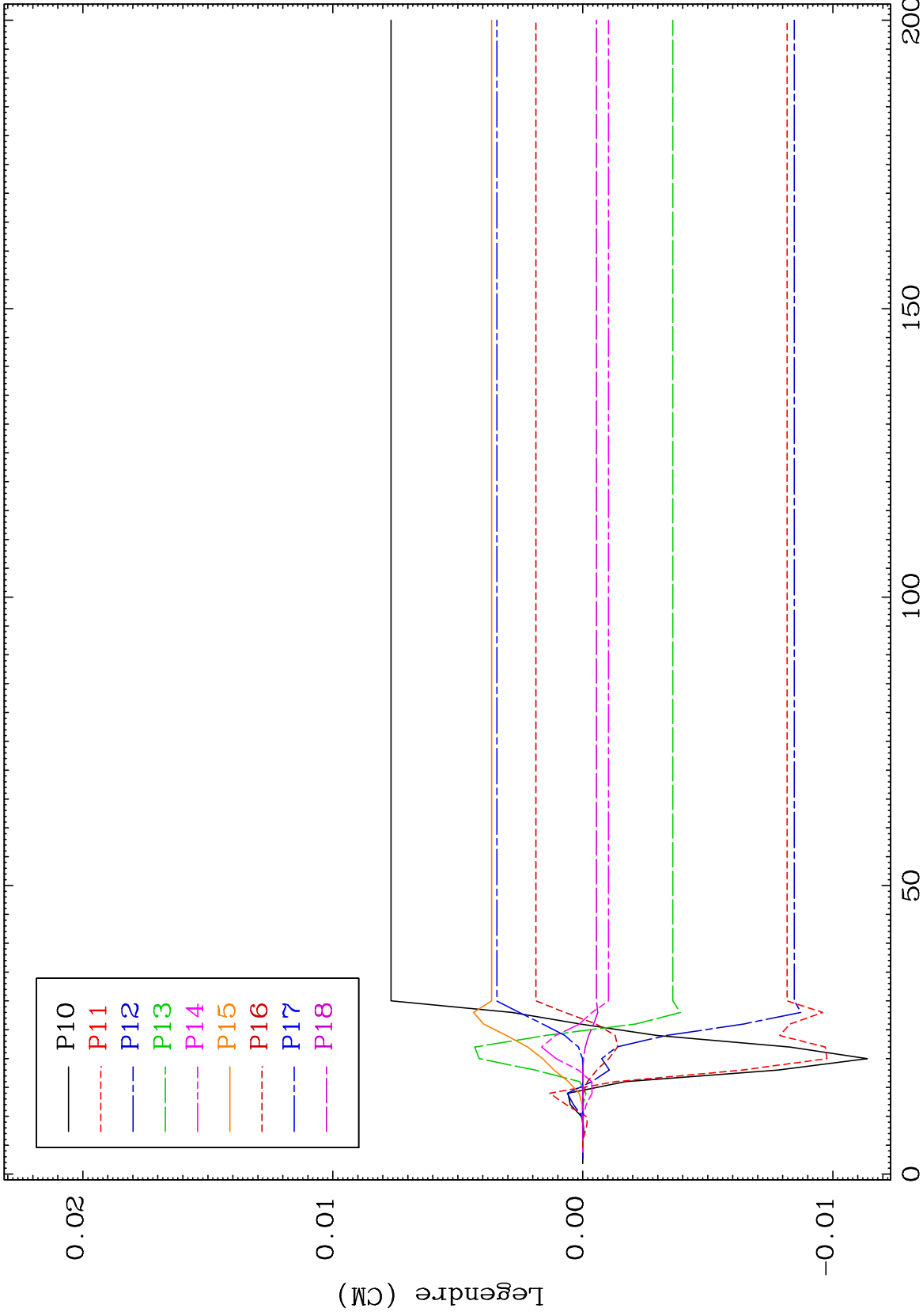
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



127

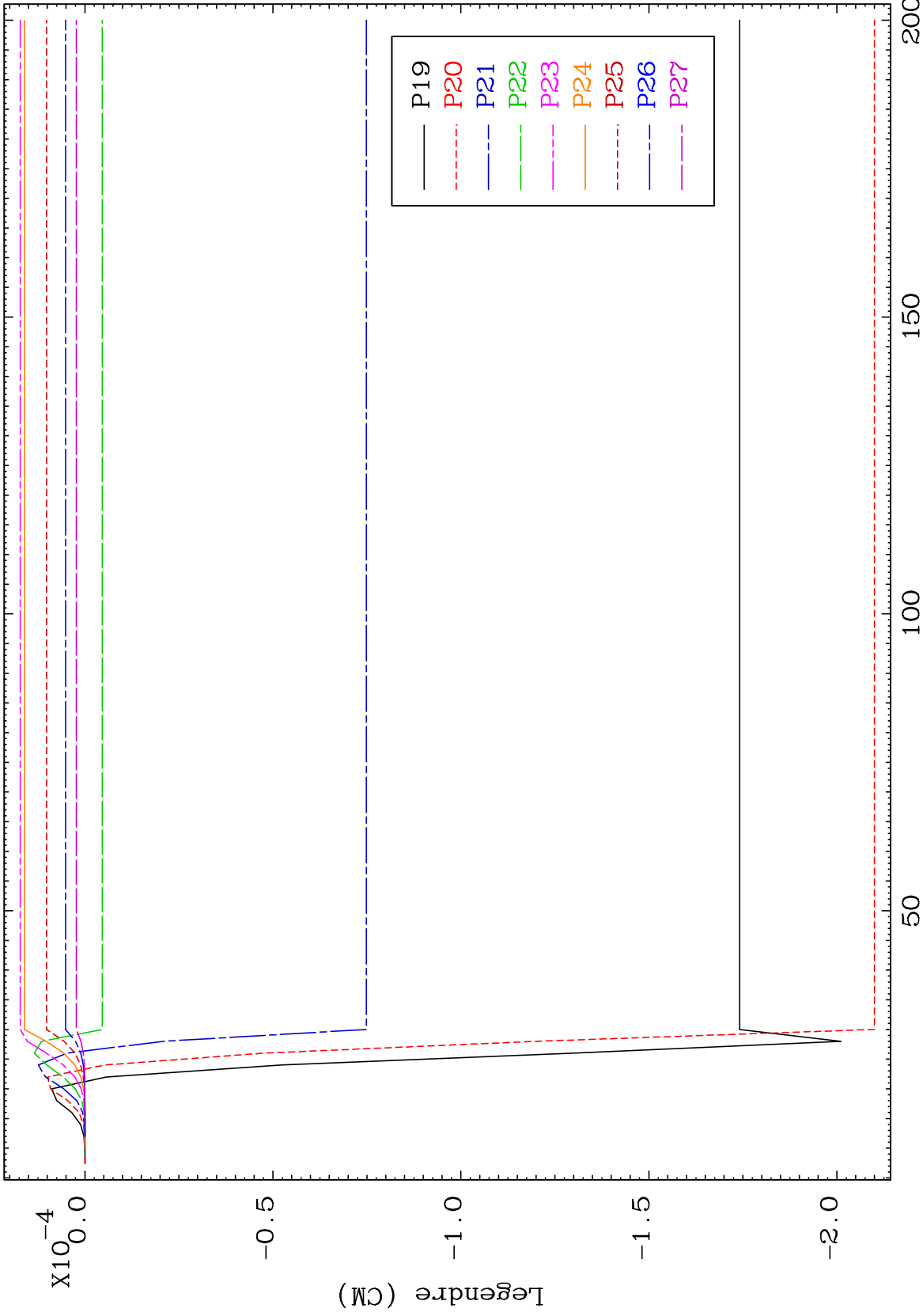
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



128

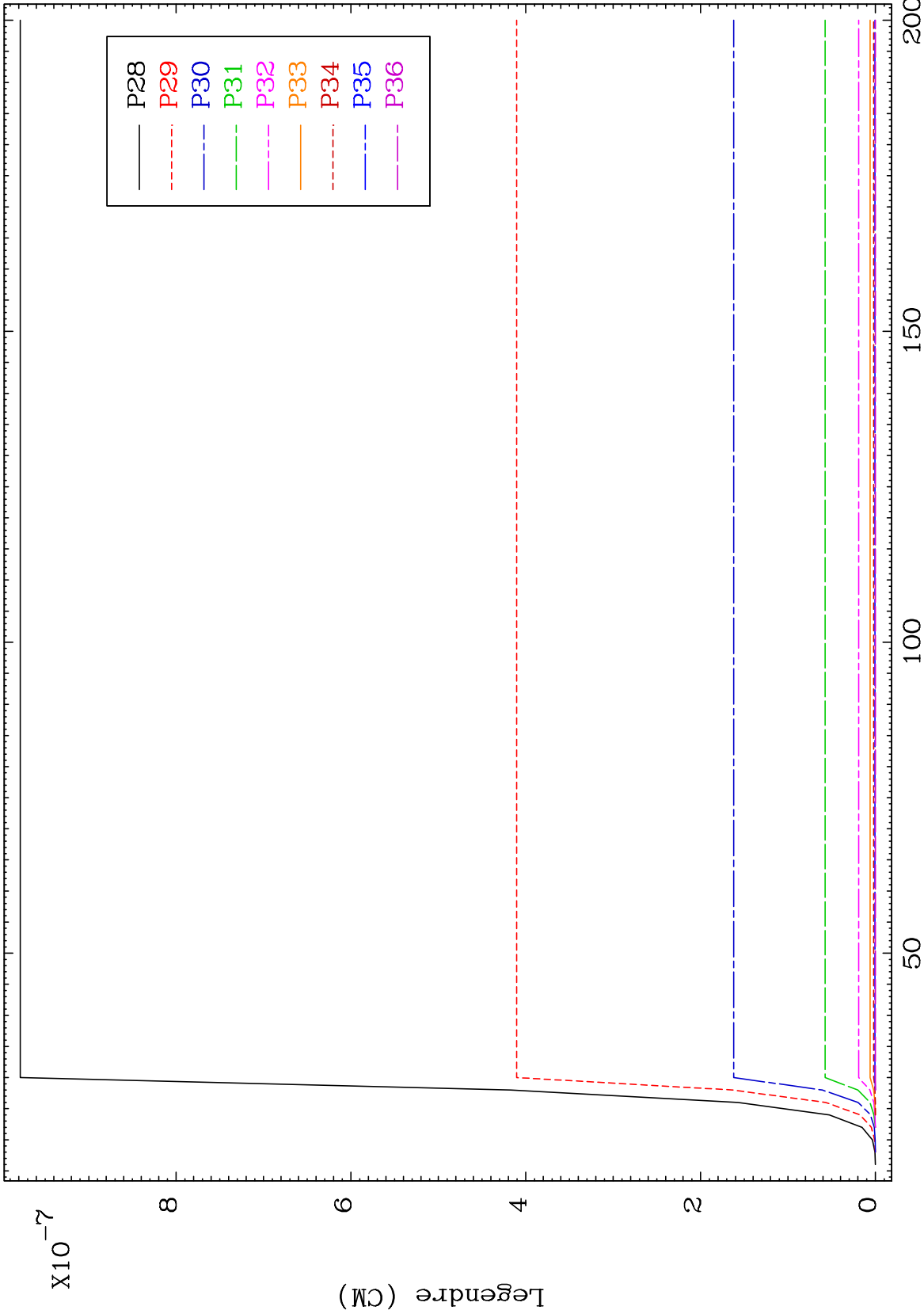
Incident Energy (MeV)

64-Gd-158

MAT 6443

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

64-Gd-158



129

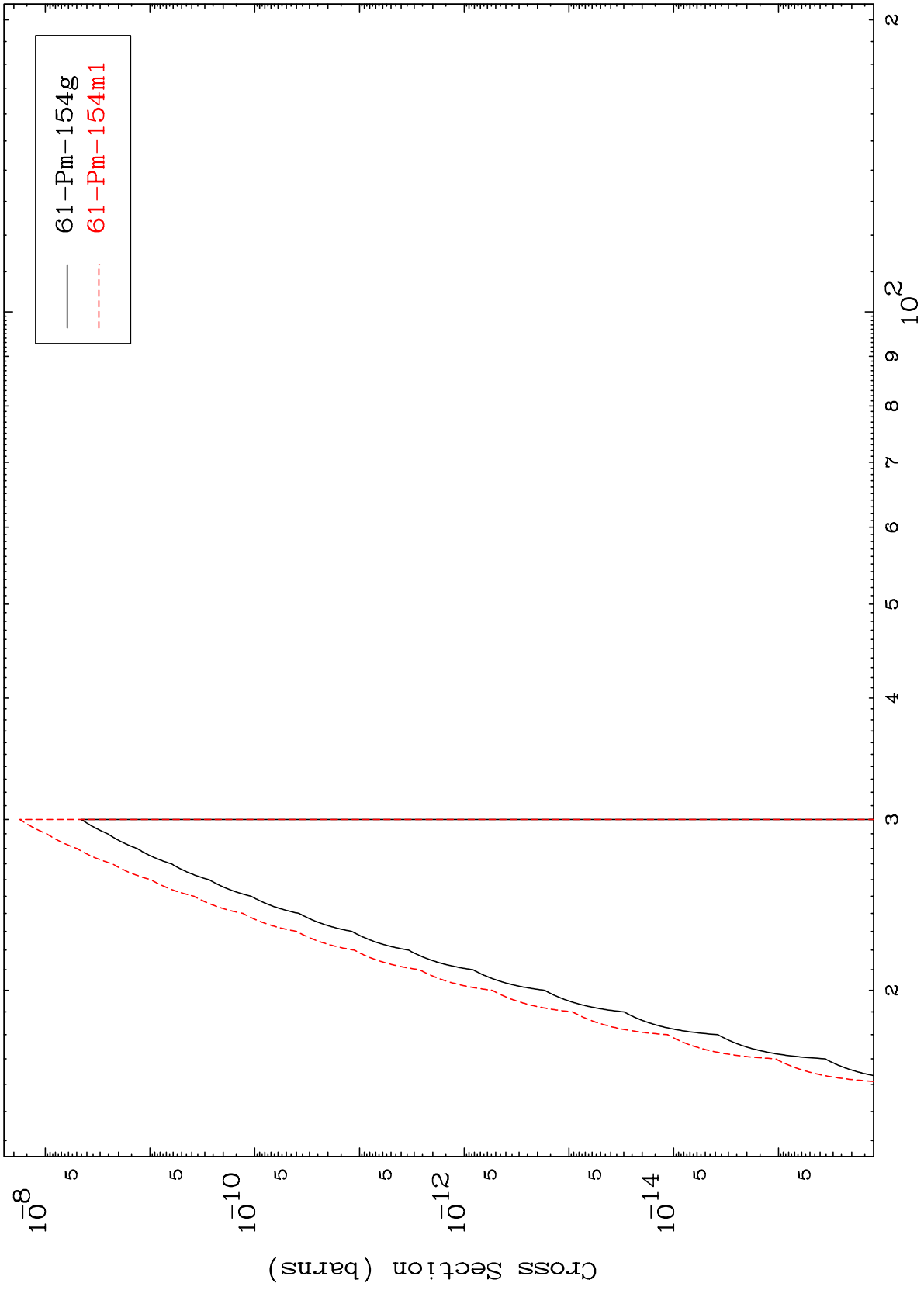
64-Gd-158

MAT 6443

(n,p) α

64-Gd-158

Radionuclide Production Cross Section



130

Incident Energy (MeV)

64-Gd-158