

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

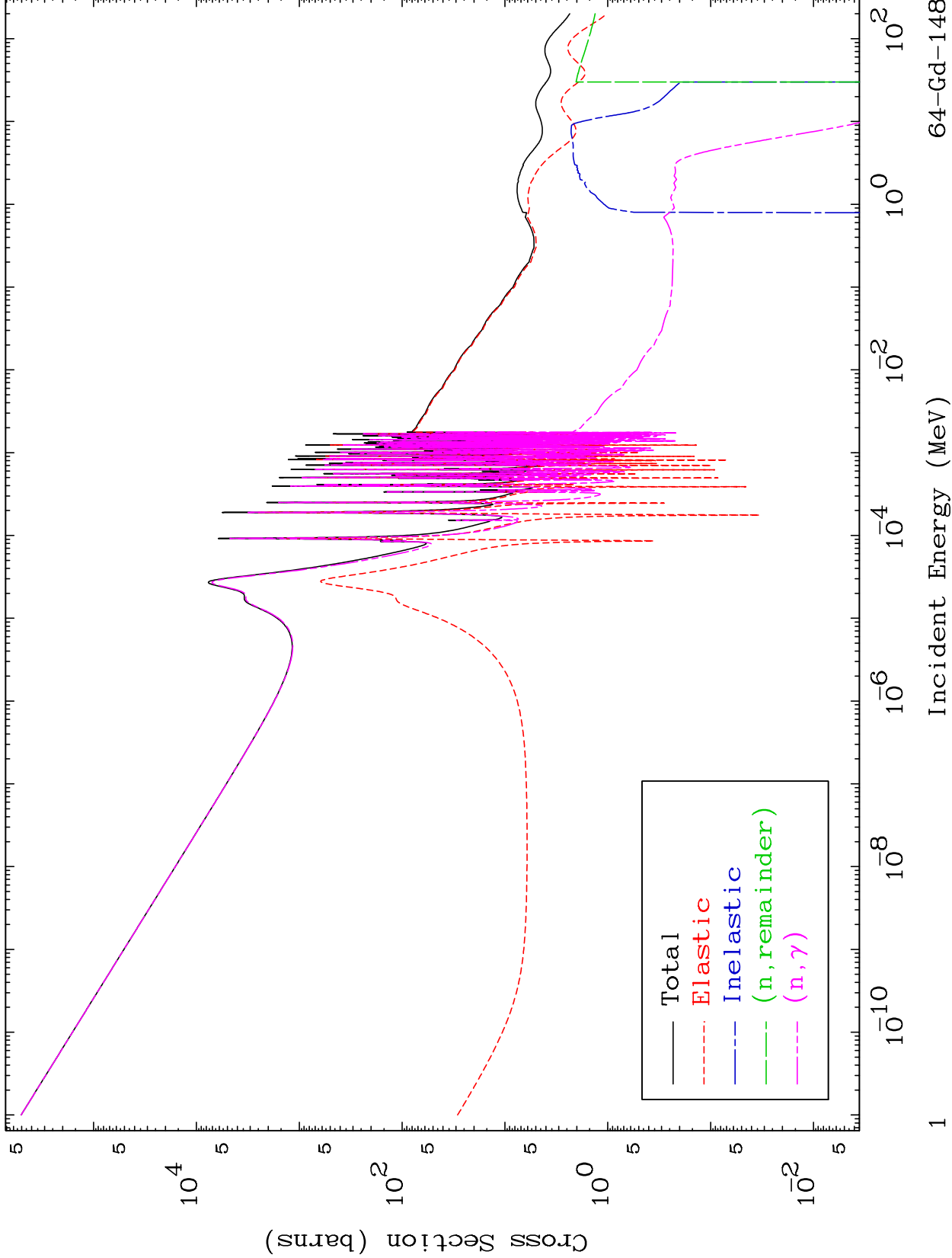
Press Mouse Button to Start

MAT 6413

Major

293 Kelvin Cross Sections

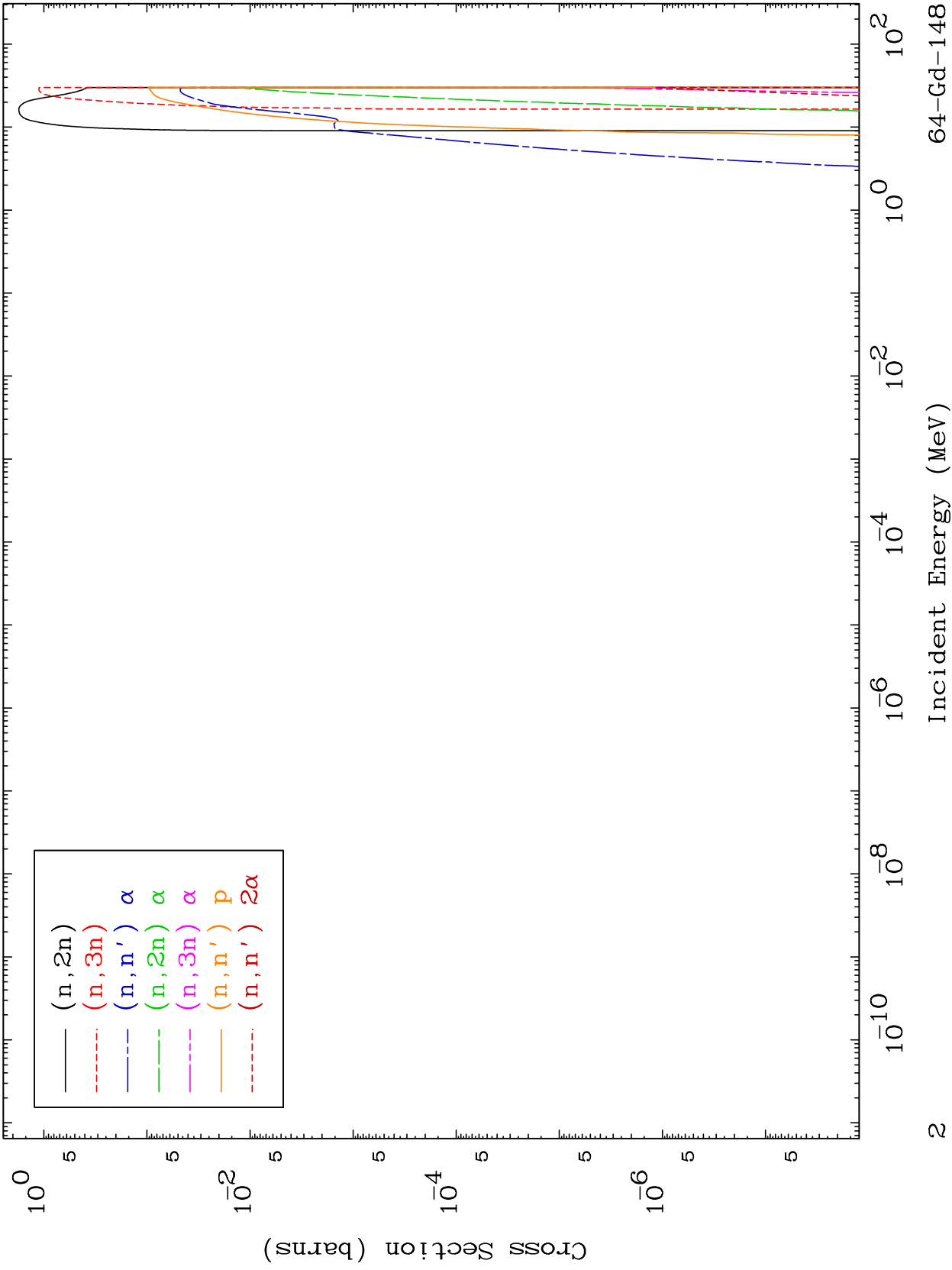
64-Gd-148



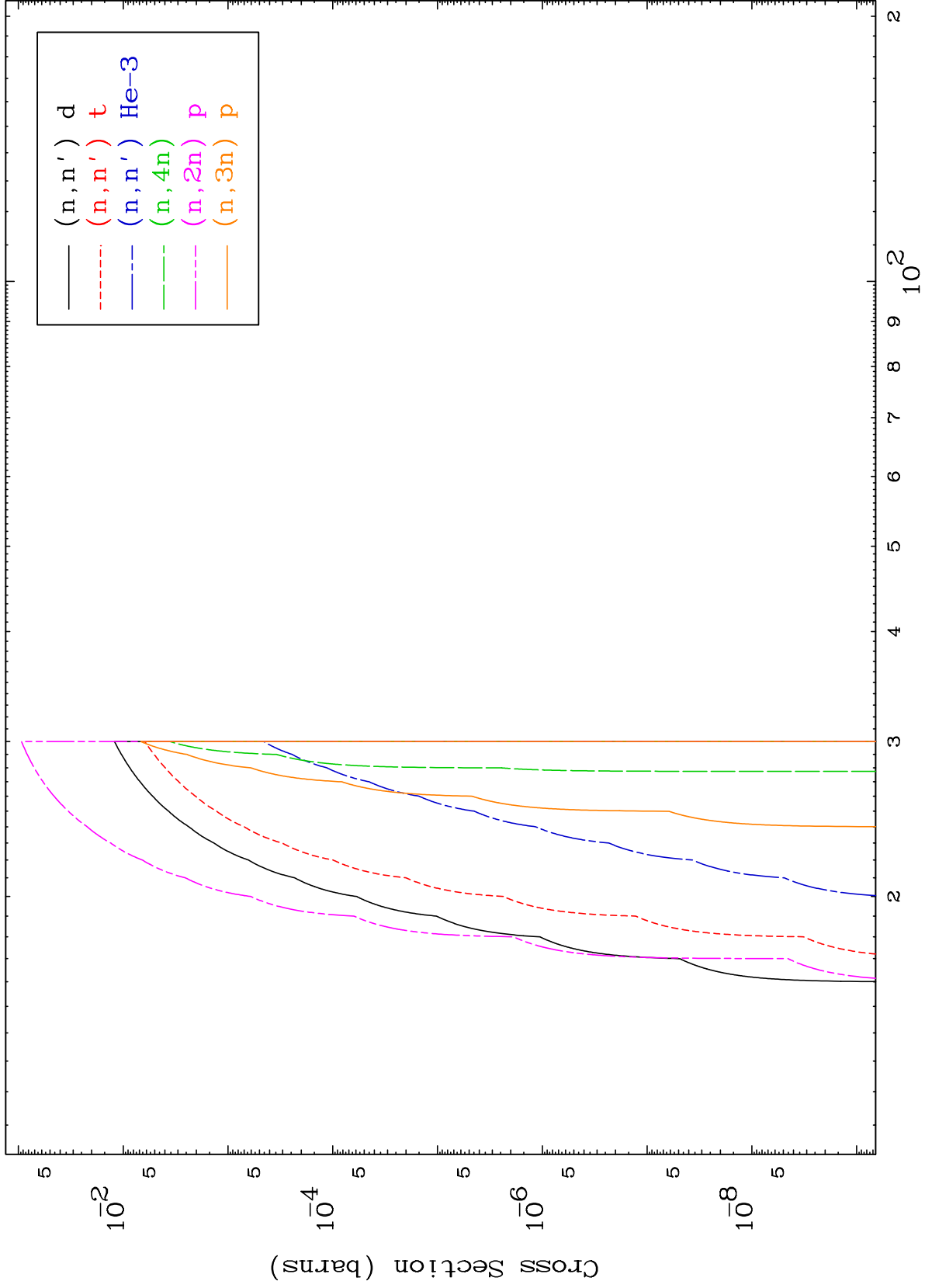
MAT 6413

Neutron Production
293 Kelvin Cross Sections

64-Gd-148



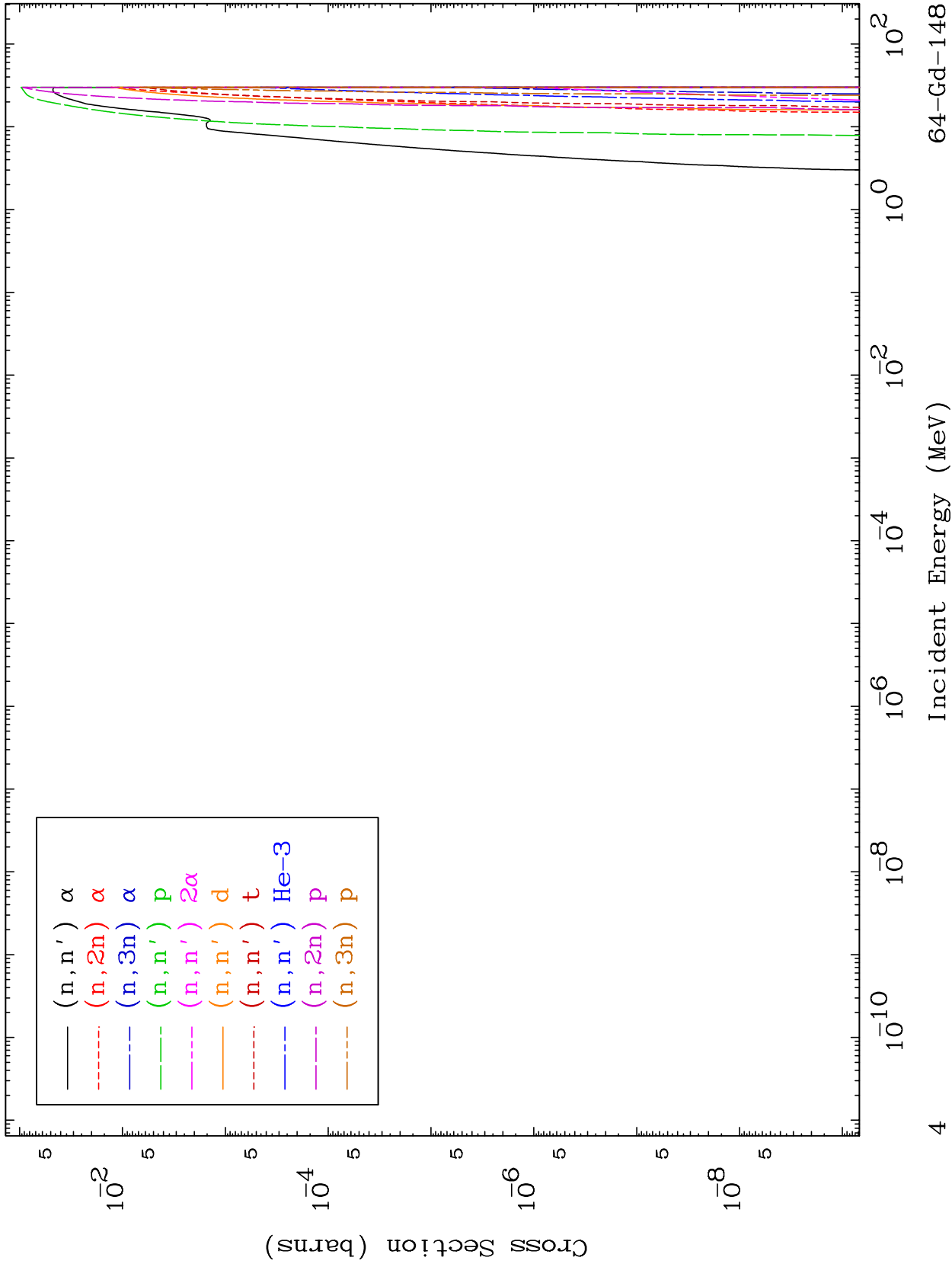
Neutron Production
293 Kelvin Cross Sections



MAT 6413

Charged Particle
293 Kelvin Cross Sections

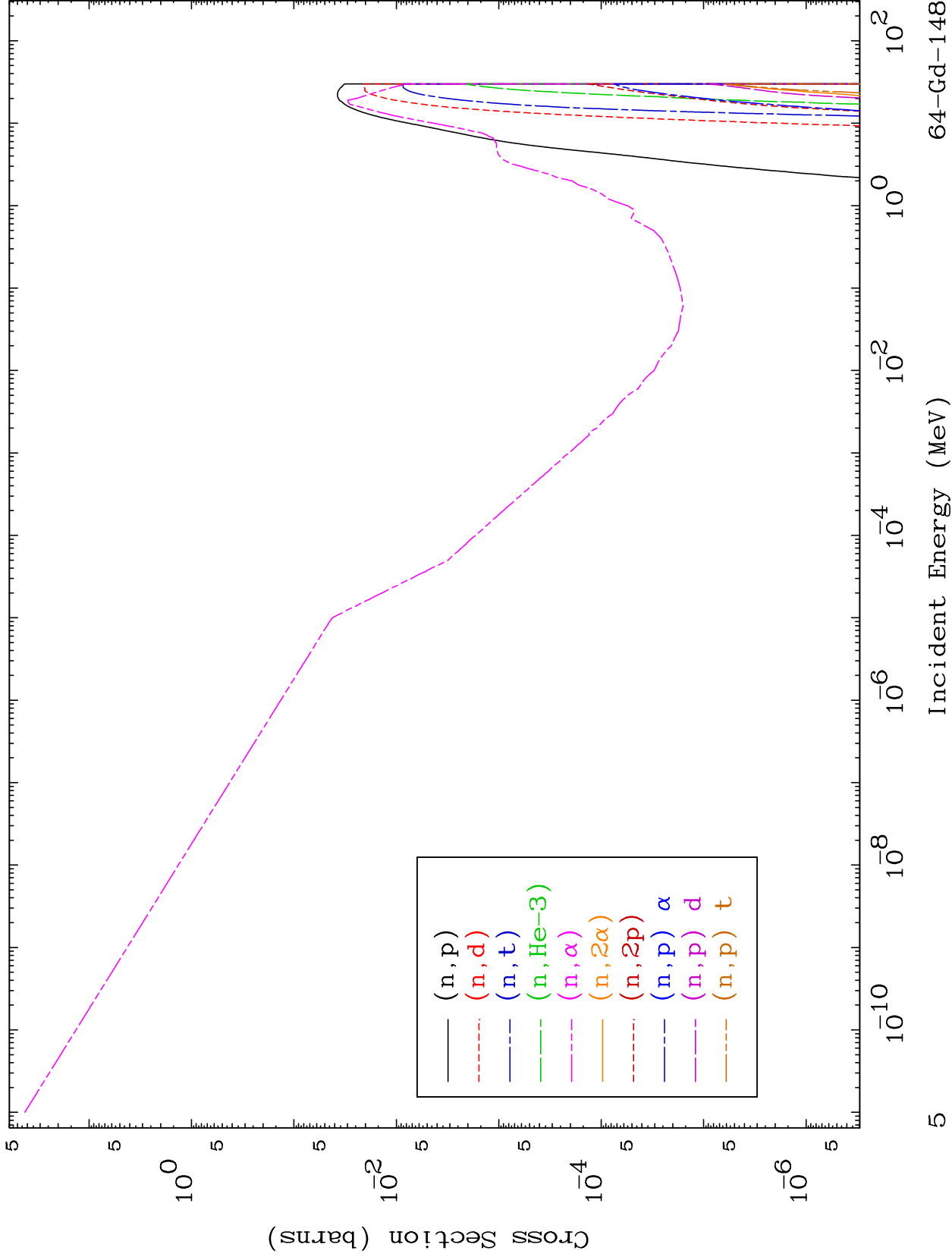
64-Gd-148



MAT 6413

Charged Particle
293 Kelvin Cross Sections

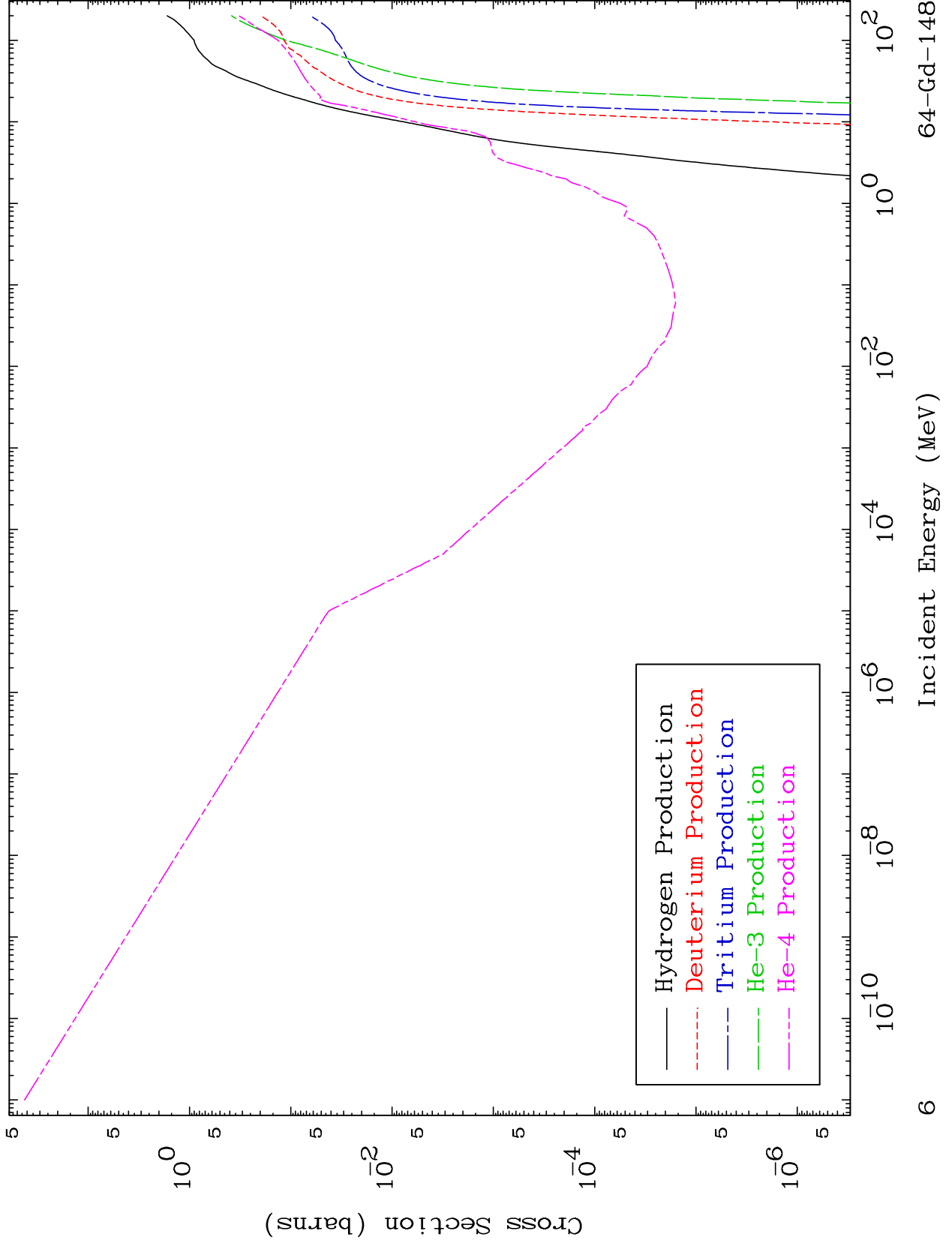
64-Gd-148



MAT 6413

Particle Production
293 Kelvin Cross Sections

64-Gd-148



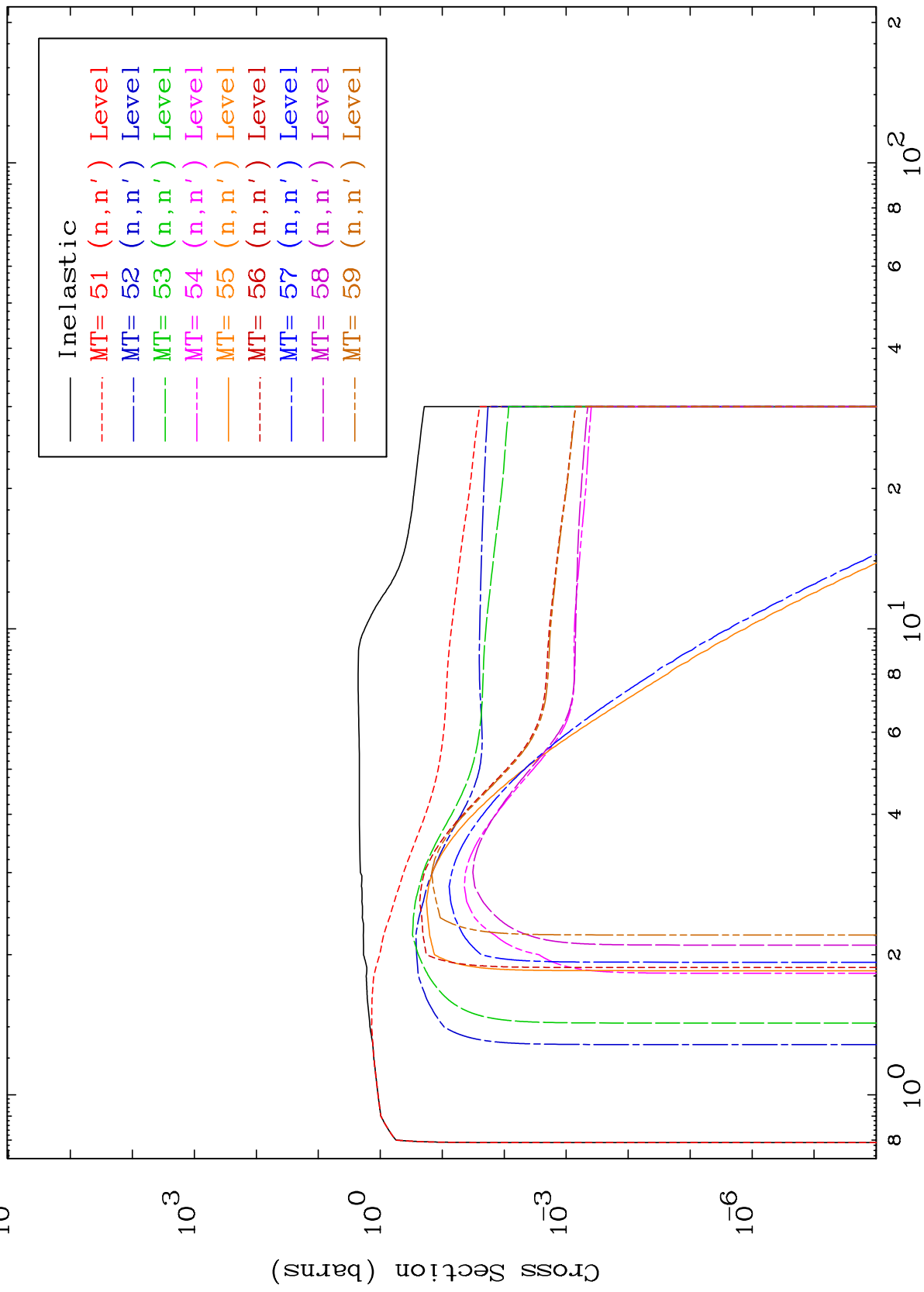
MAT 6413

(n,n') Level

64-Gd-148

293 Kelvin Cross Sections

64-Gd-148



Incident Energy (MeV)

64-Gd-148

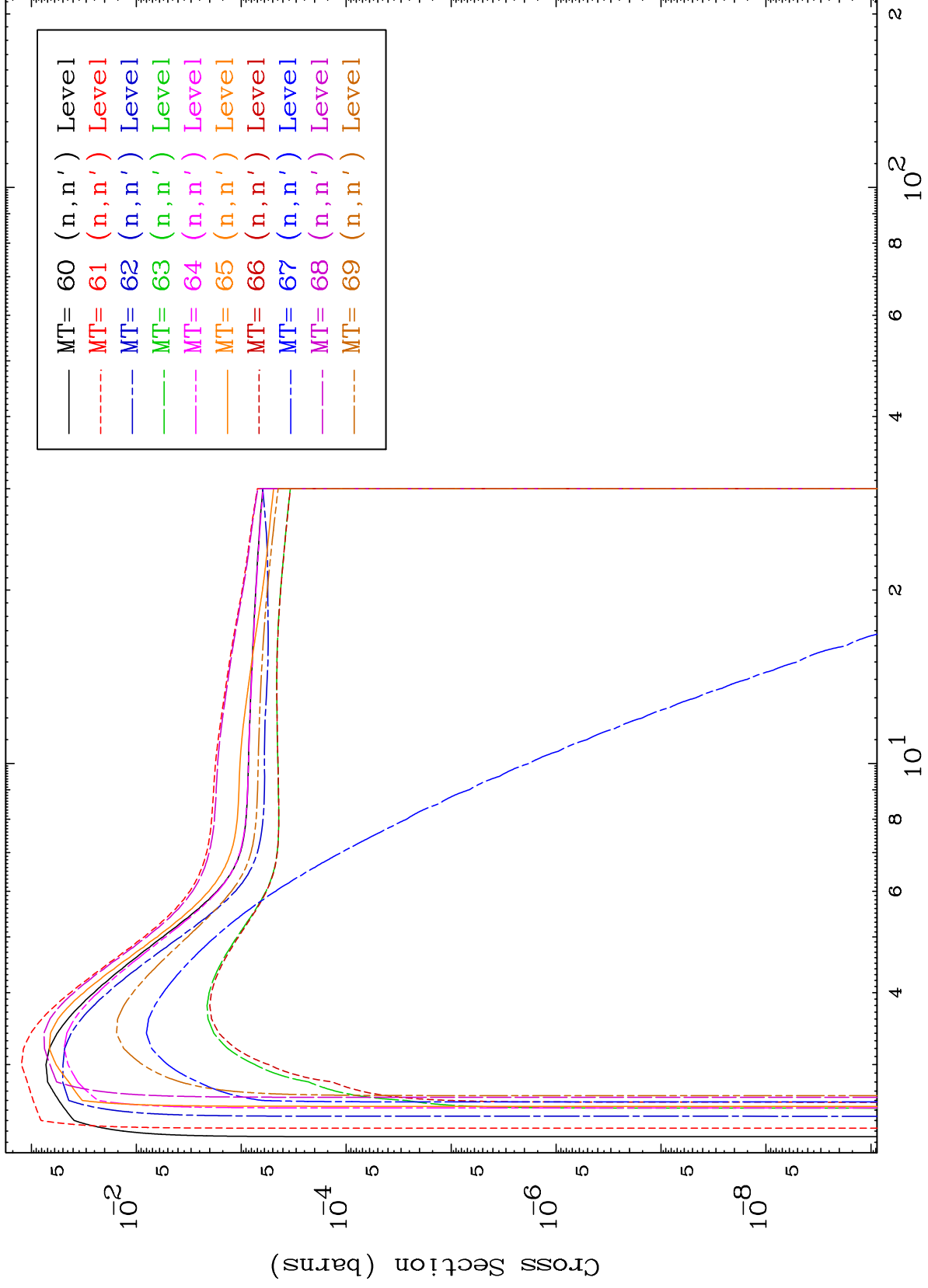
7

MAT 6413

(n,n') Level

64-Gd-148

293 Kelvin Cross Sections

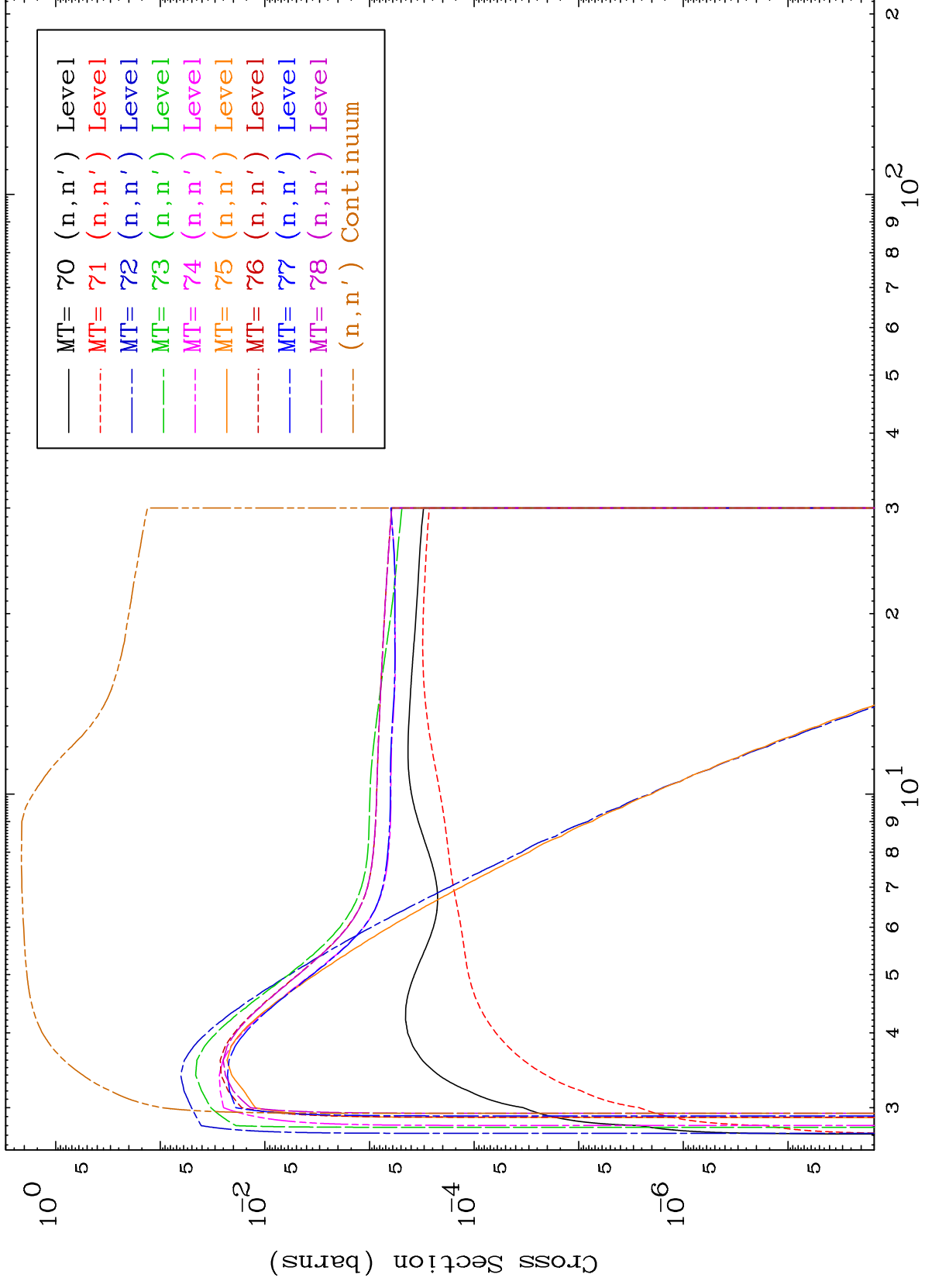


8

Incident Energy (MeV)

64-Gd-148

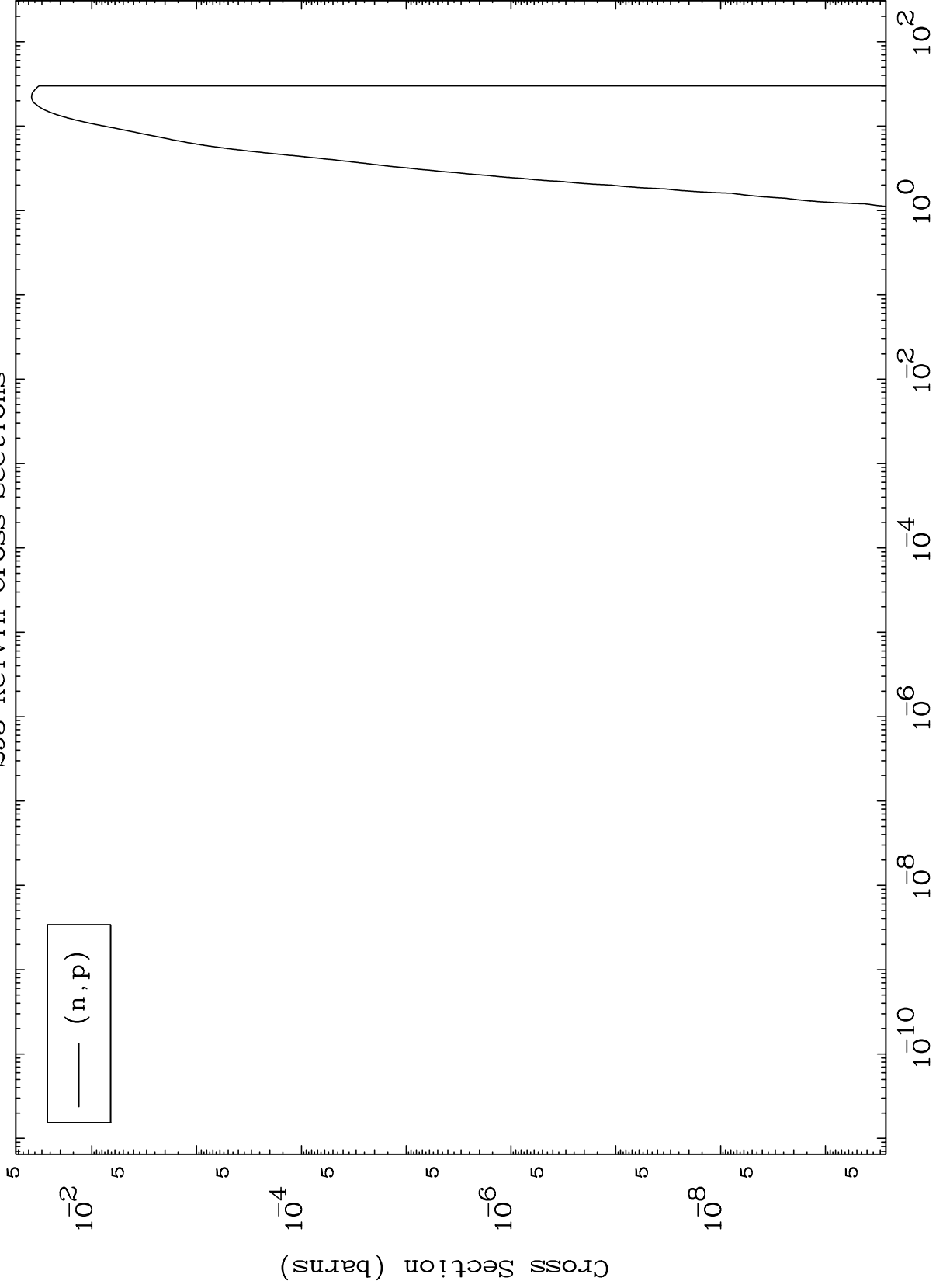
293 Kelvin Cross Sections



MAT 6413

(n,p) Levels
293 Kelvin Cross Sections

64-Gd-148



10

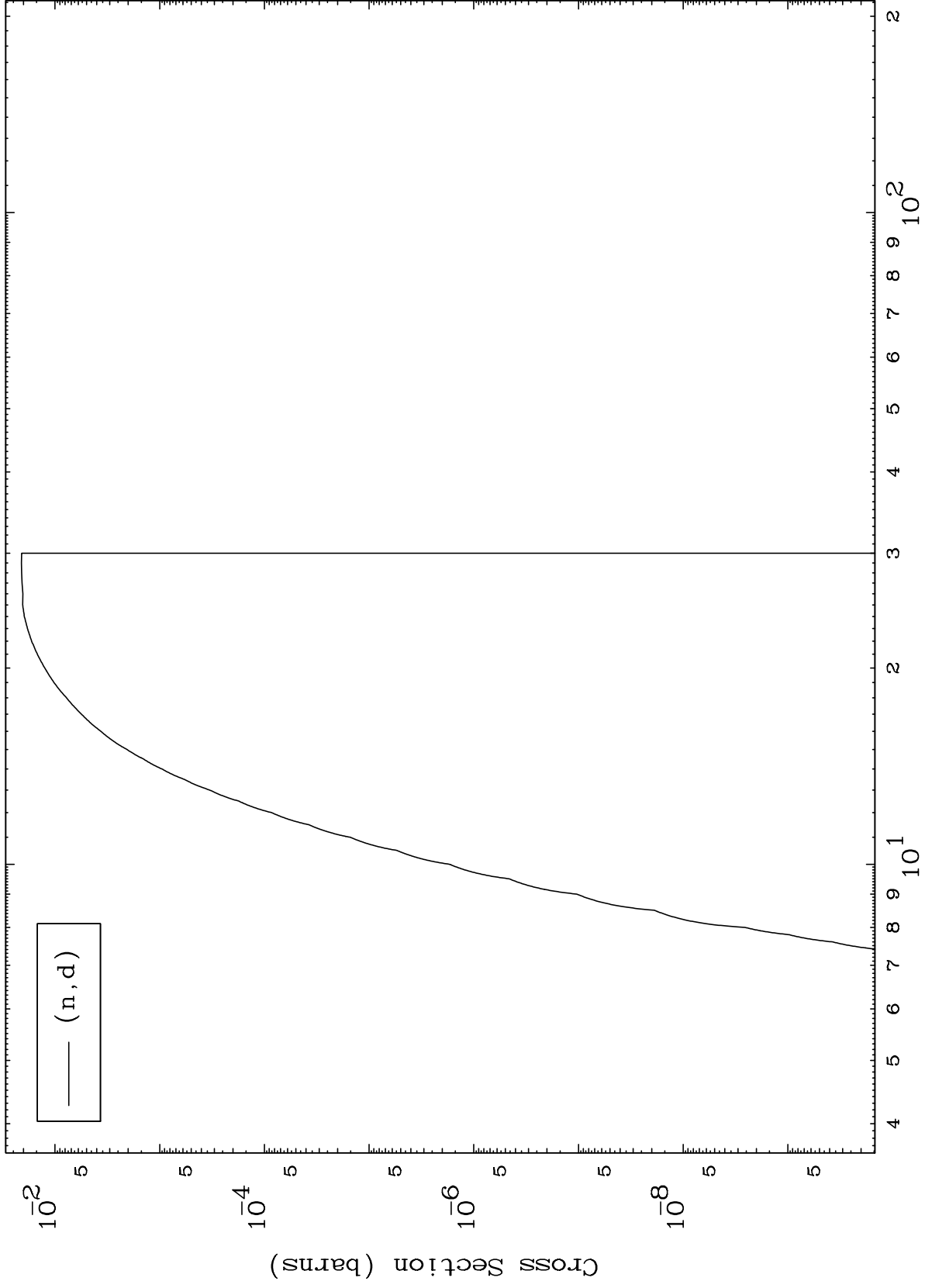
Incident Energy (MeV)

64-Gd-148

MAT 6413

(n,d) Levels
293 Kelvin Cross Sections

64-Gd-148



11

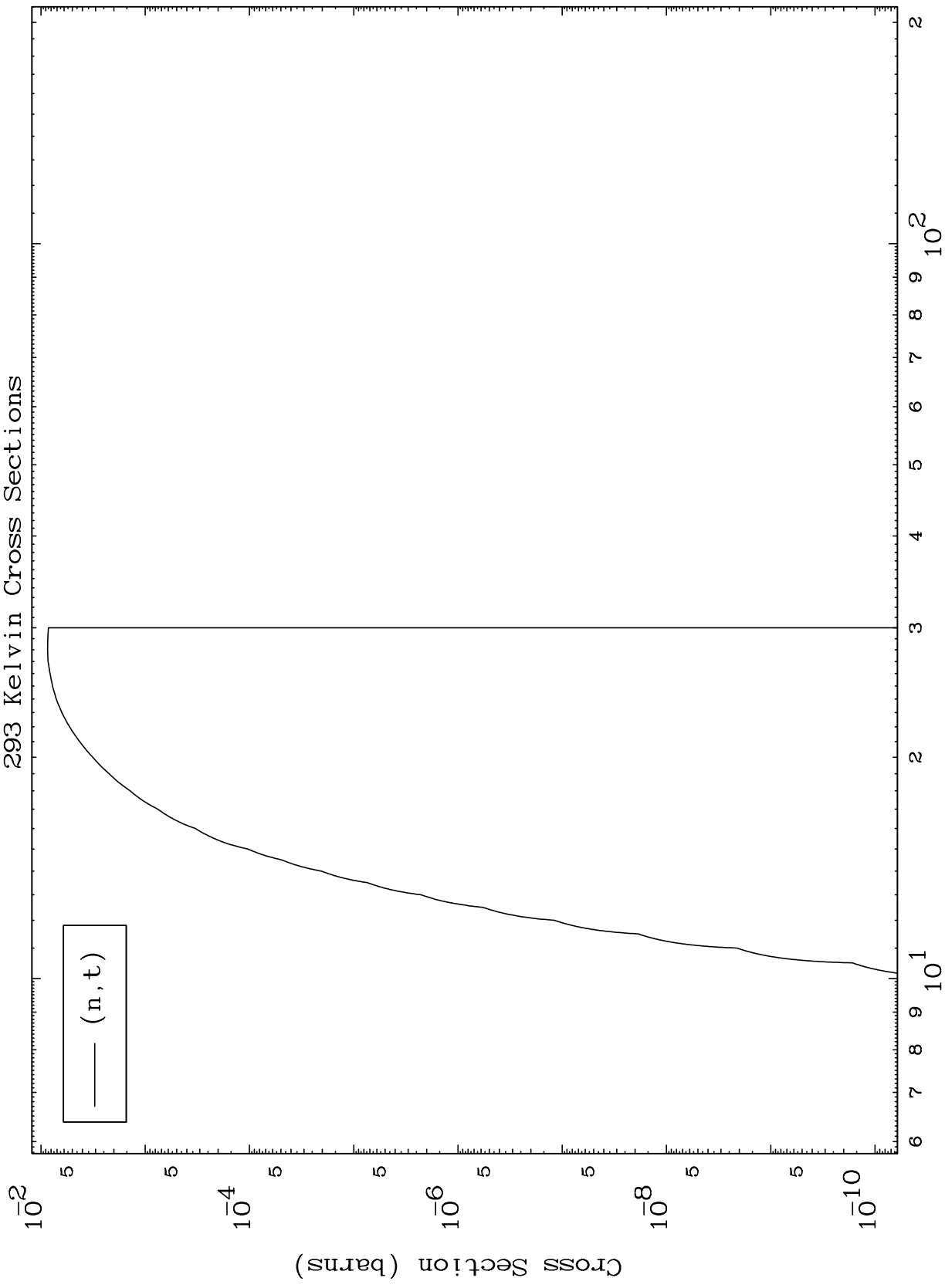
Incident Energy (MeV)

64-Gd-148

MAT 6413

(n,t) Levels
293 Kelvin Cross Sections

64-Gd-148



12

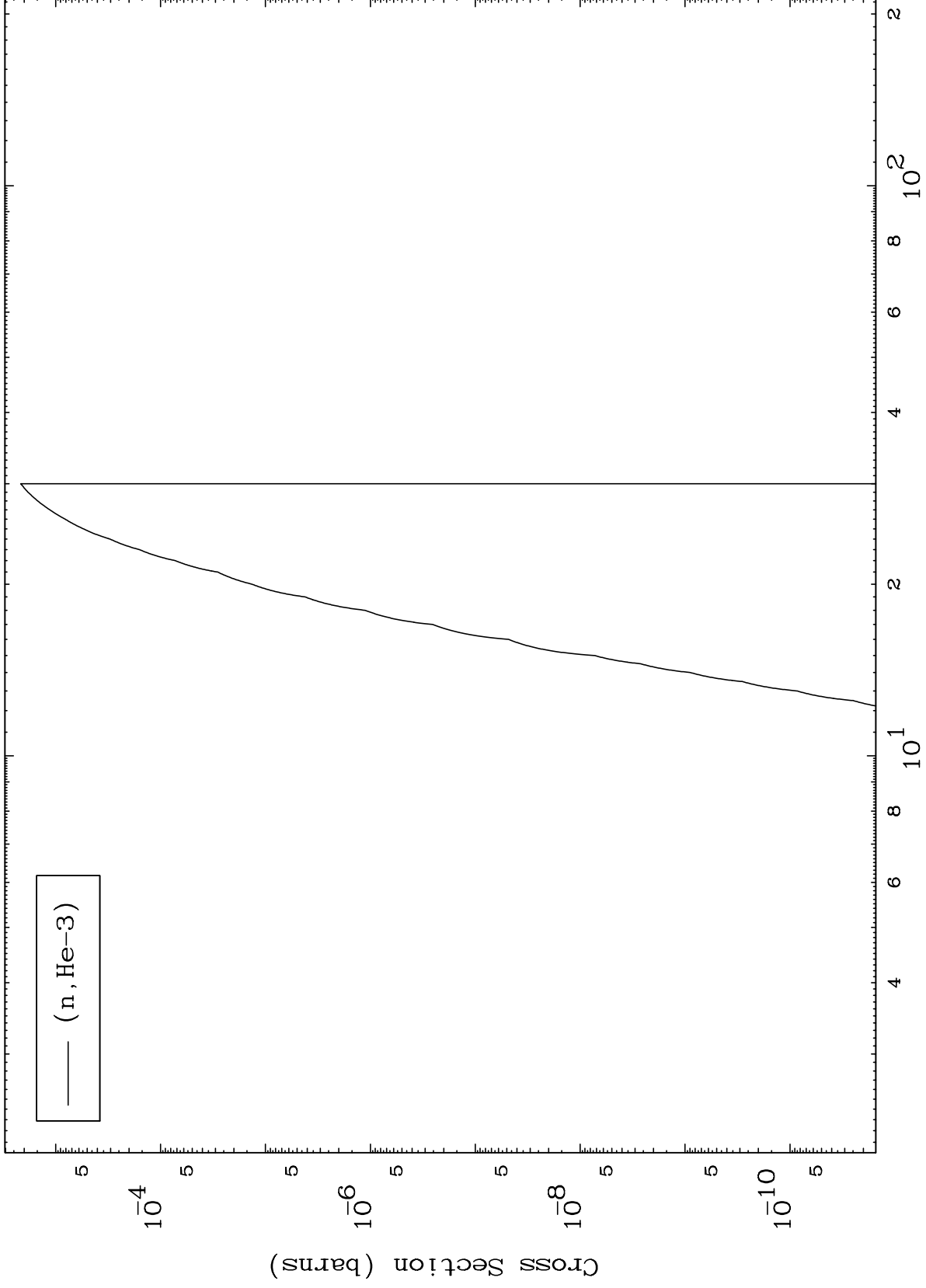
Incident Energy (MeV)

64-Gd-148

MAT 6413

(n,He3) Levels
293 Kelvin Cross Sections

64-Gd-148



13

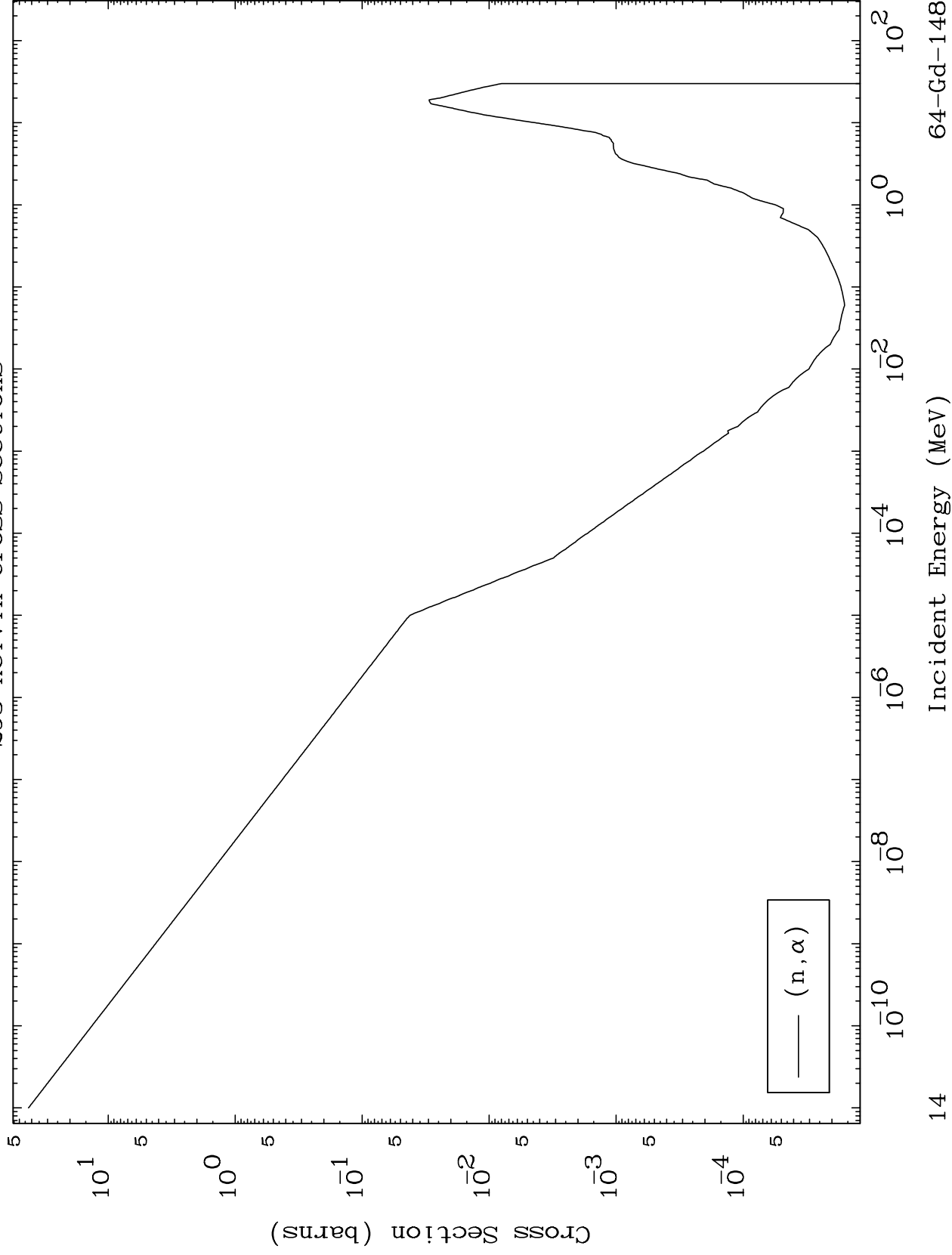
Incident Energy (MeV)

64-Gd-148

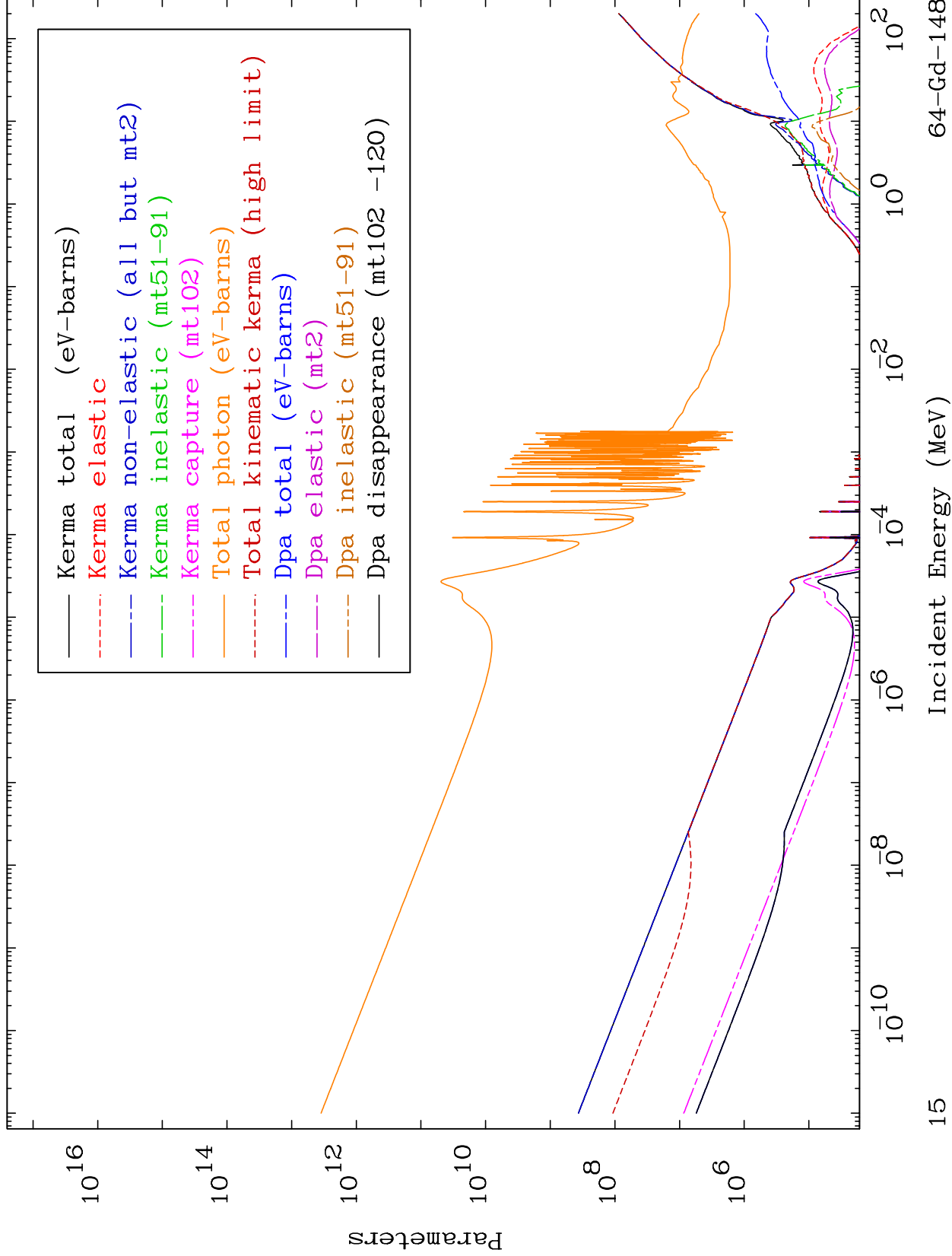
MAT 6413

(n, α) Levels
293 Kelvin Cross Sections

64-Gd-148



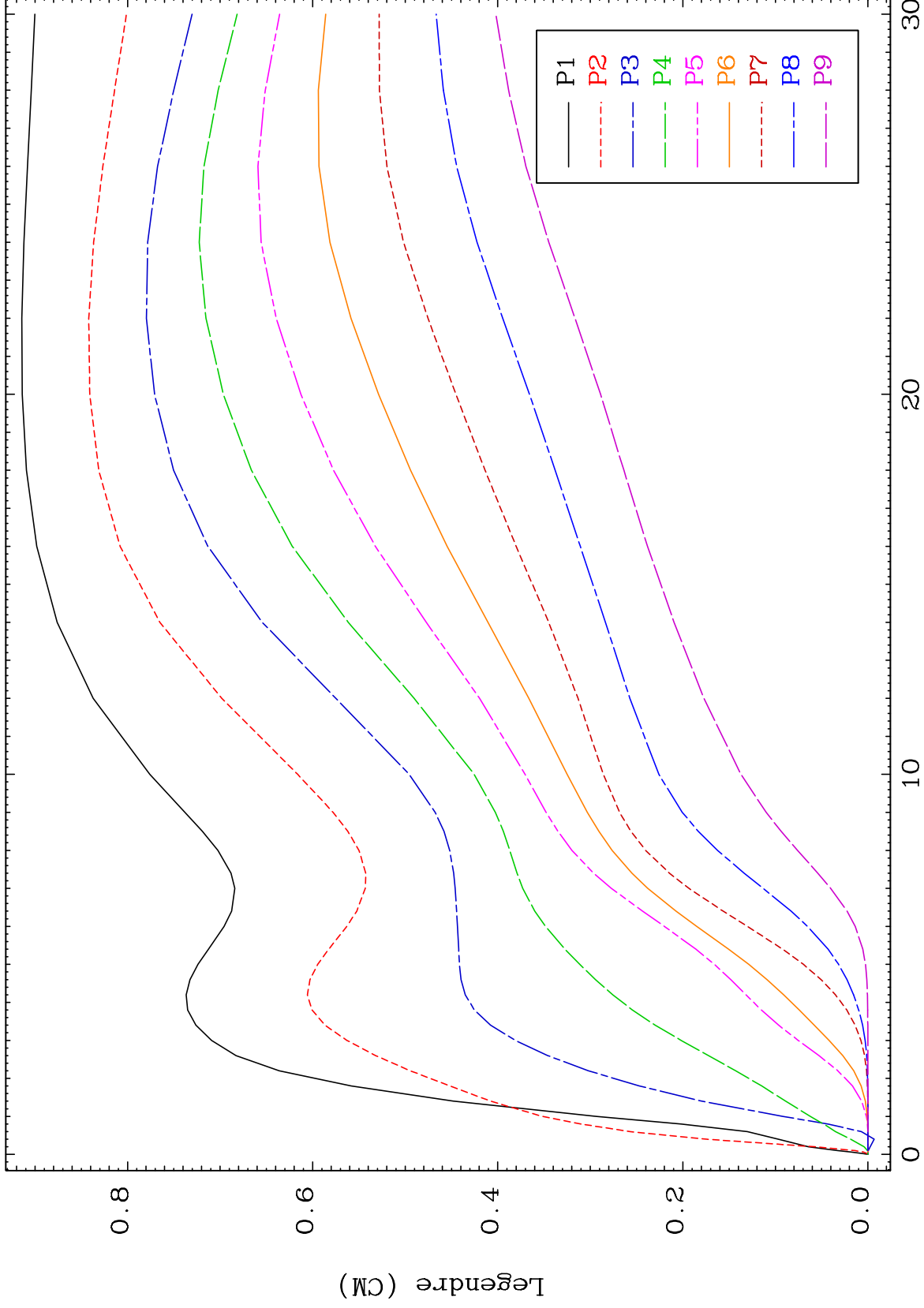
14



MAT 6413

64-Gd-148

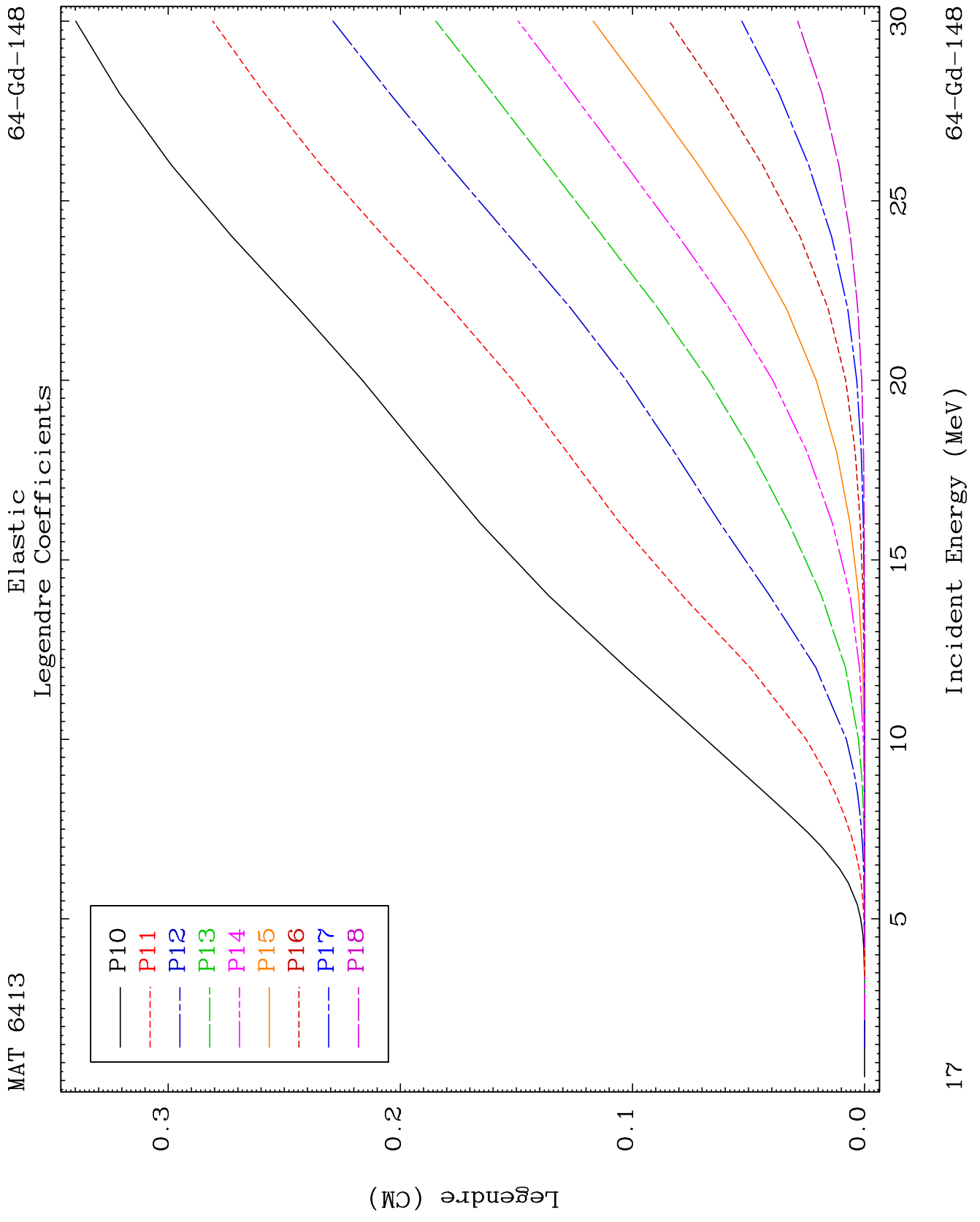
Elastic Legendre Coefficients



16

Incident Energy (MeV)

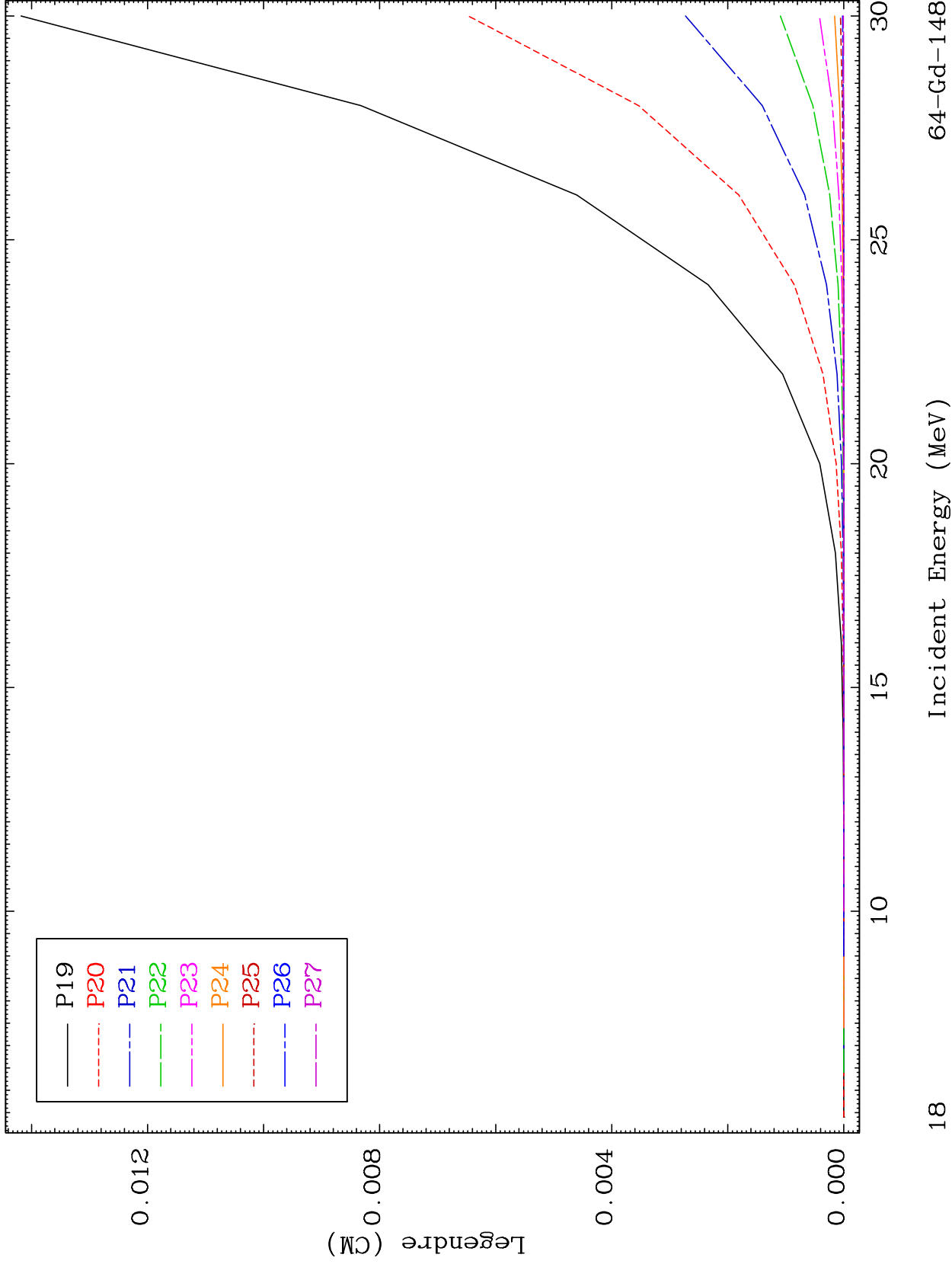
64-Gd-148



MAT 6413

Elastic Legendre Coefficients

64-Gd-148



18

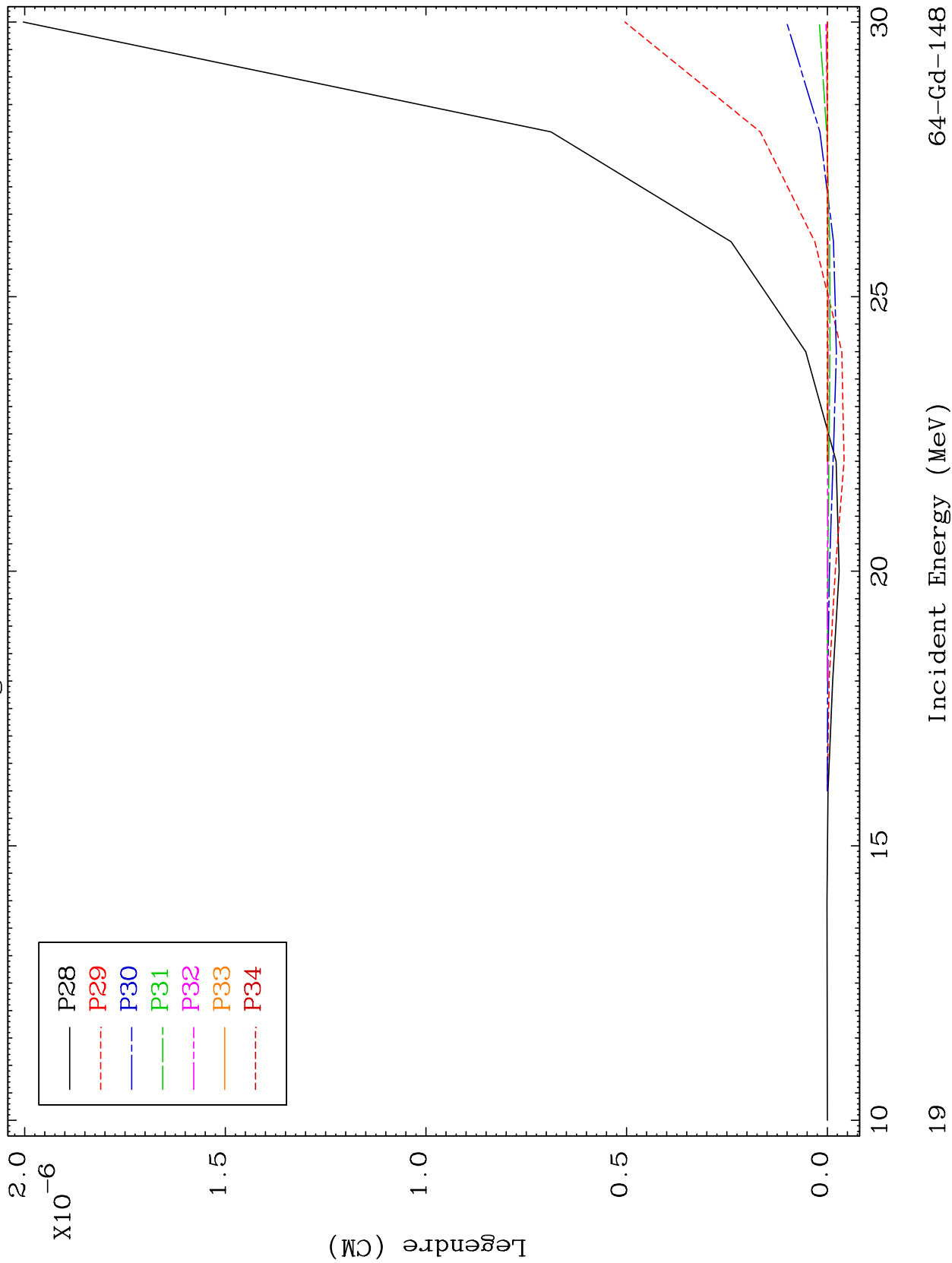
Incident Energy (MeV)

64-Gd-148

MAT 6413

Elastic
Legendre Coefficients

64-Gd-148



19

Incident Energy (MeV)

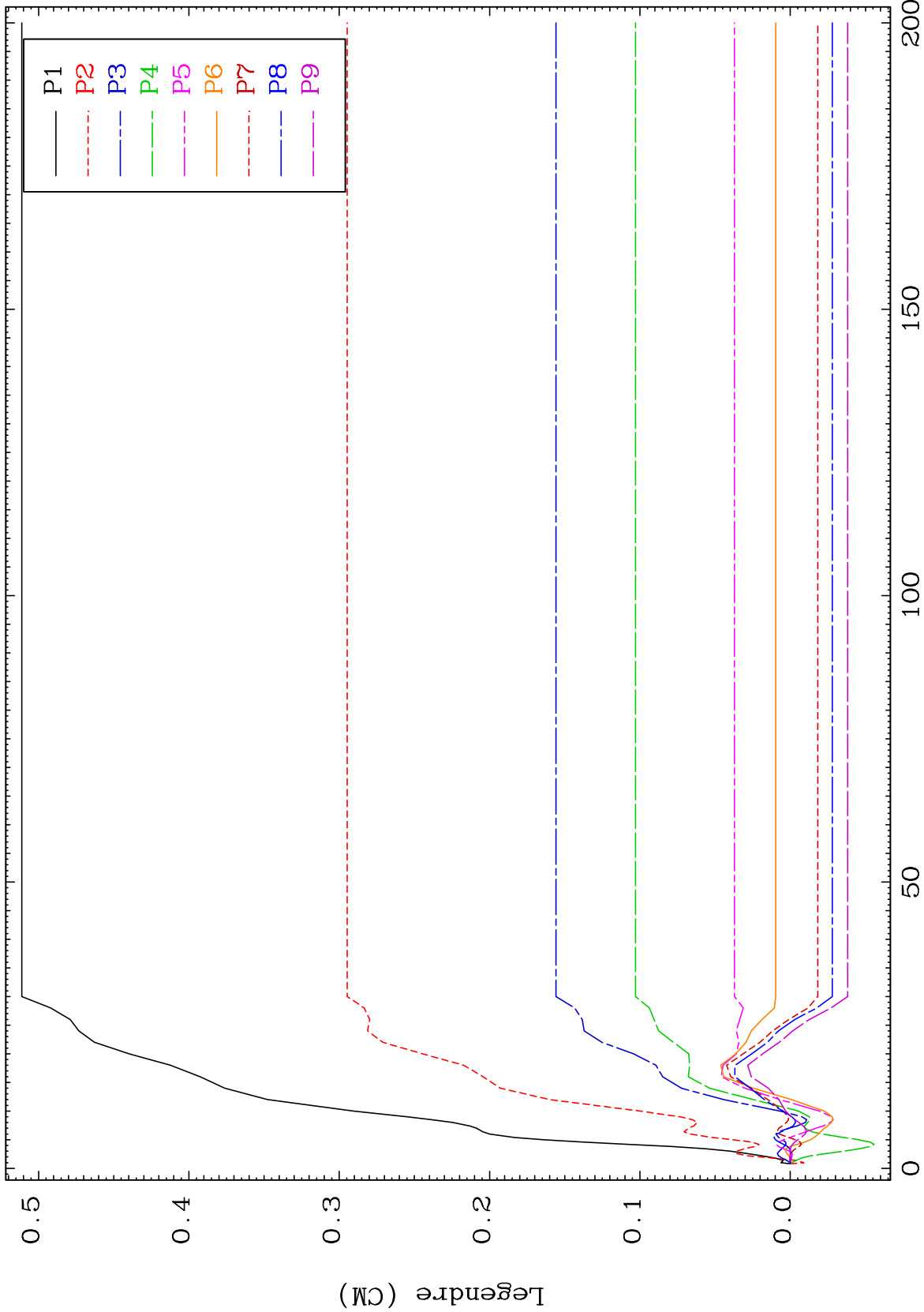
64-Gd-148

MAT 6413

MT= 51 (n,n') Level

64-Gd-148

Legendre Coefficients



64-Gd-148

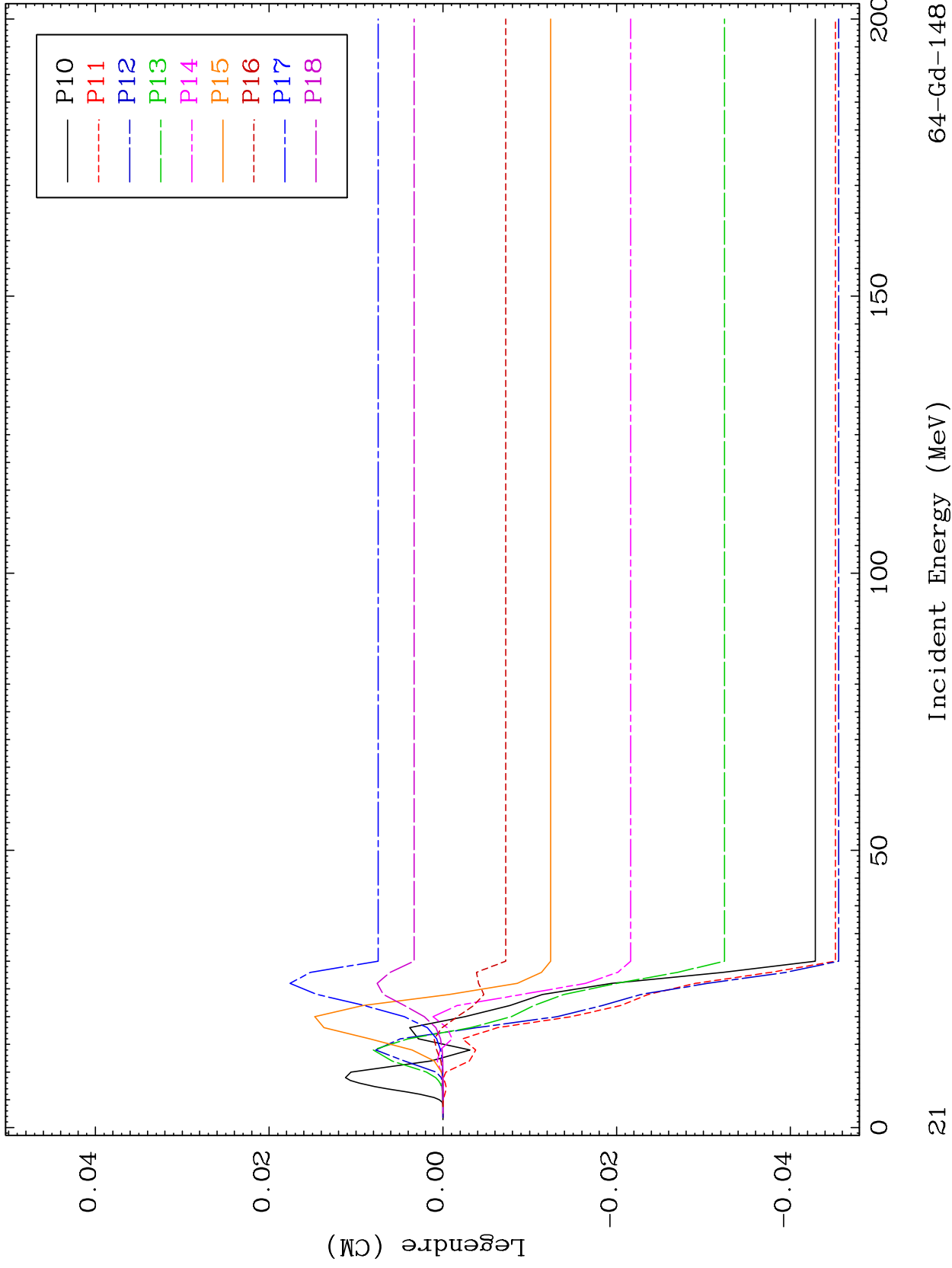
Incident Energy (MeV)

0

MAT 6413

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

64-Gd-148



21

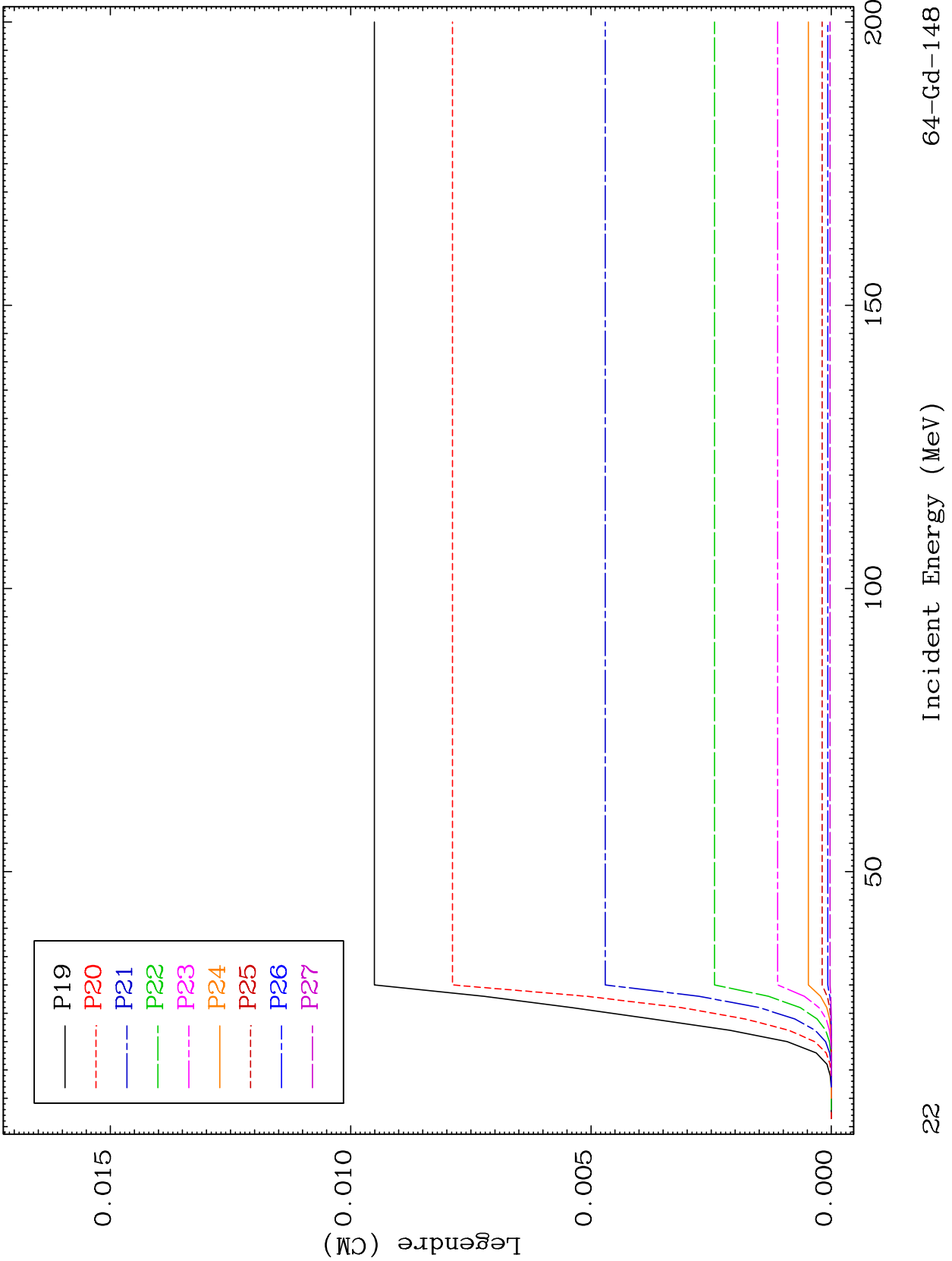
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

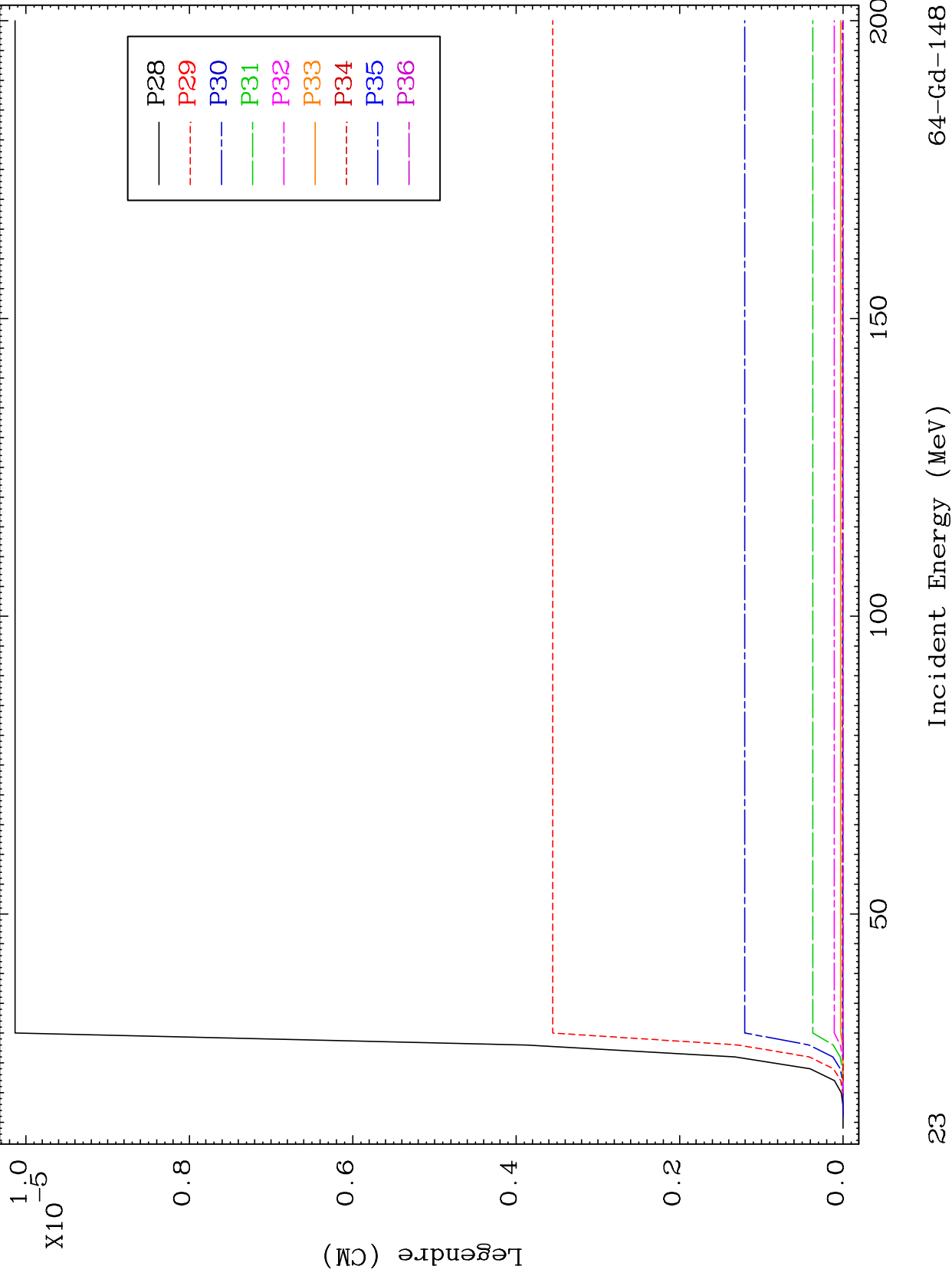
64-Gd-148



MAT 6413

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

64-Gd-148

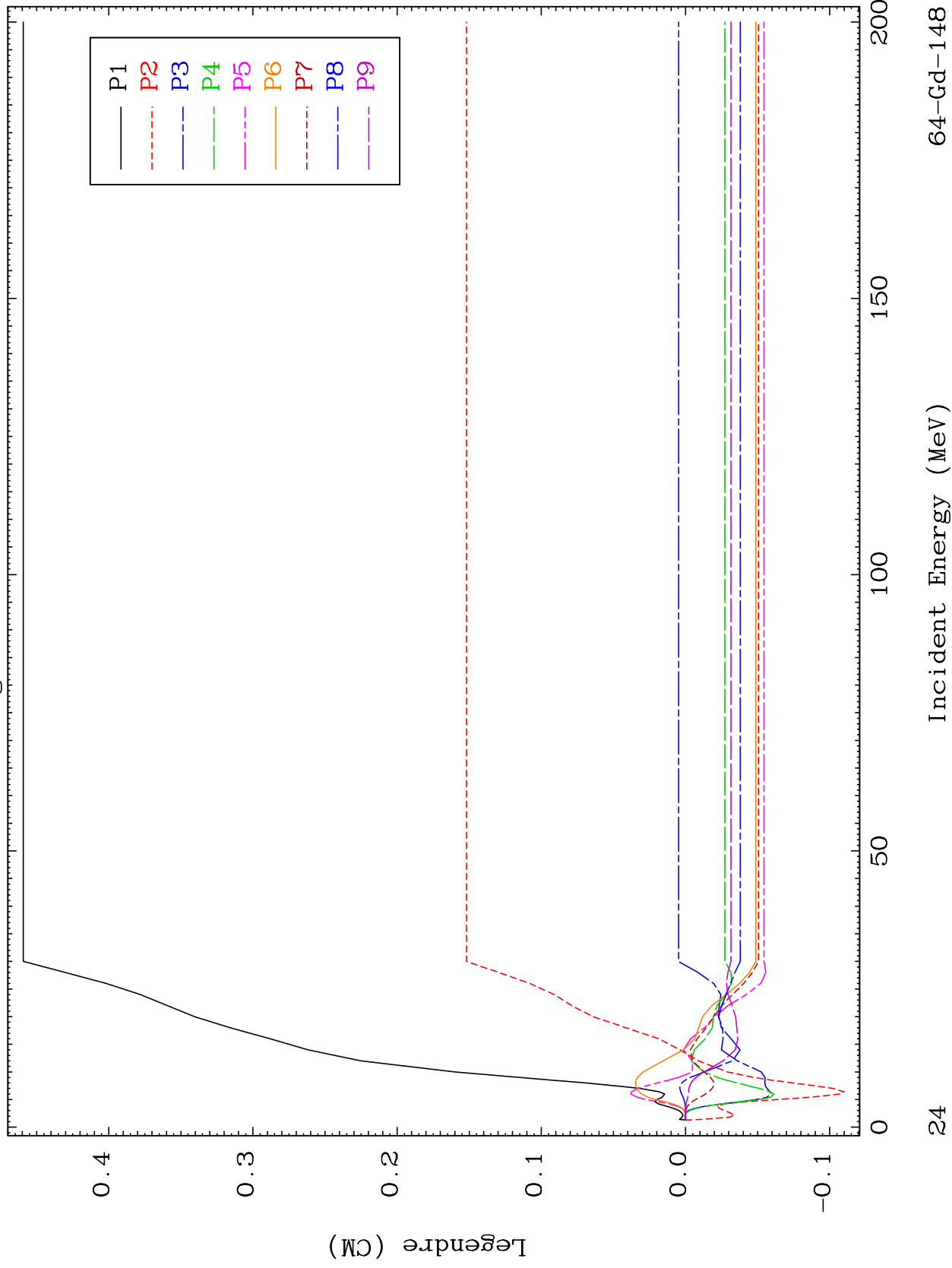


23

MAT 6413

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

64-Gd-148



64-Gd-148

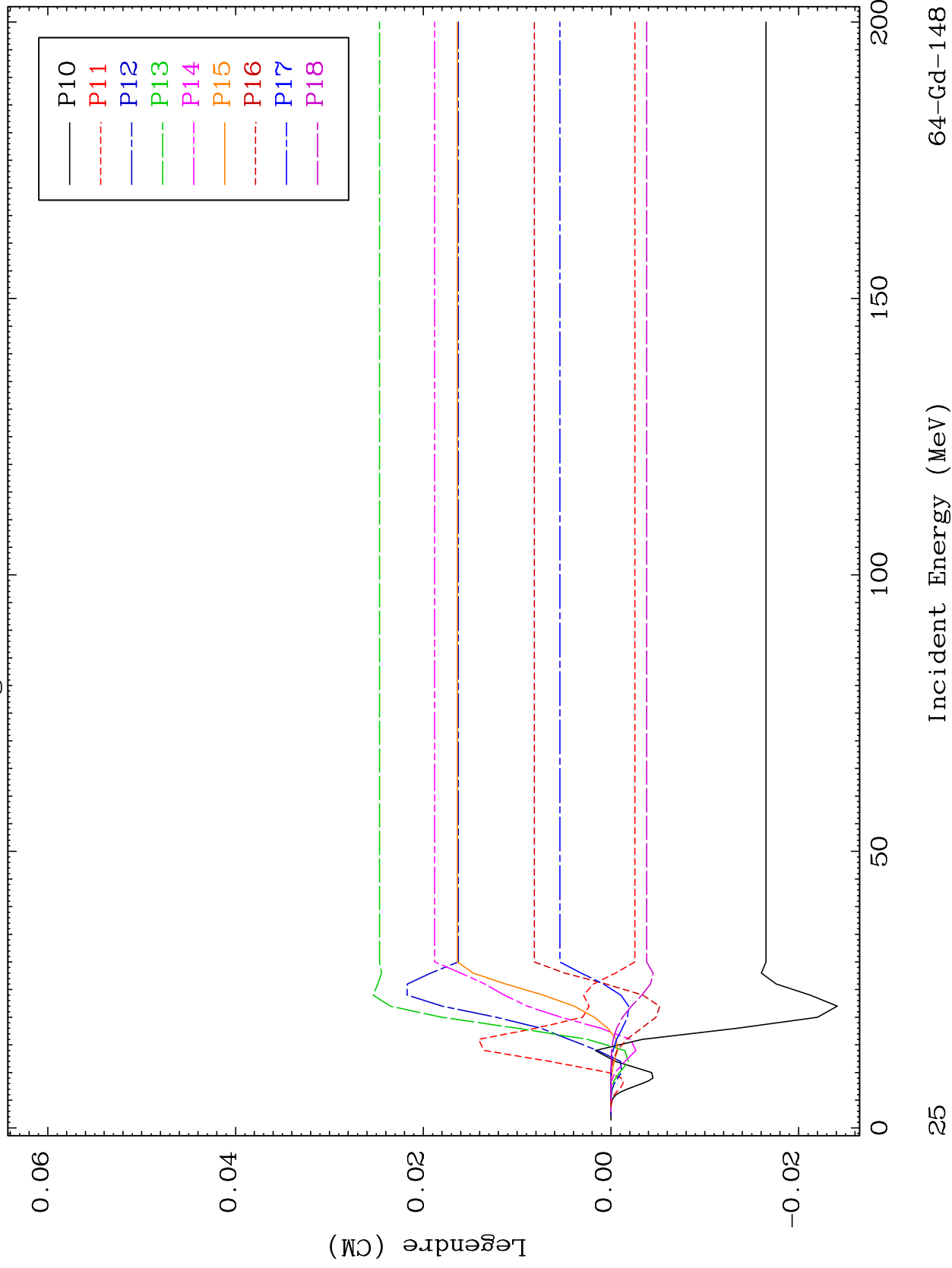
Incident Energy (MeV)

24

MAT 6413

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

64-Gd-148



64-Gd-148

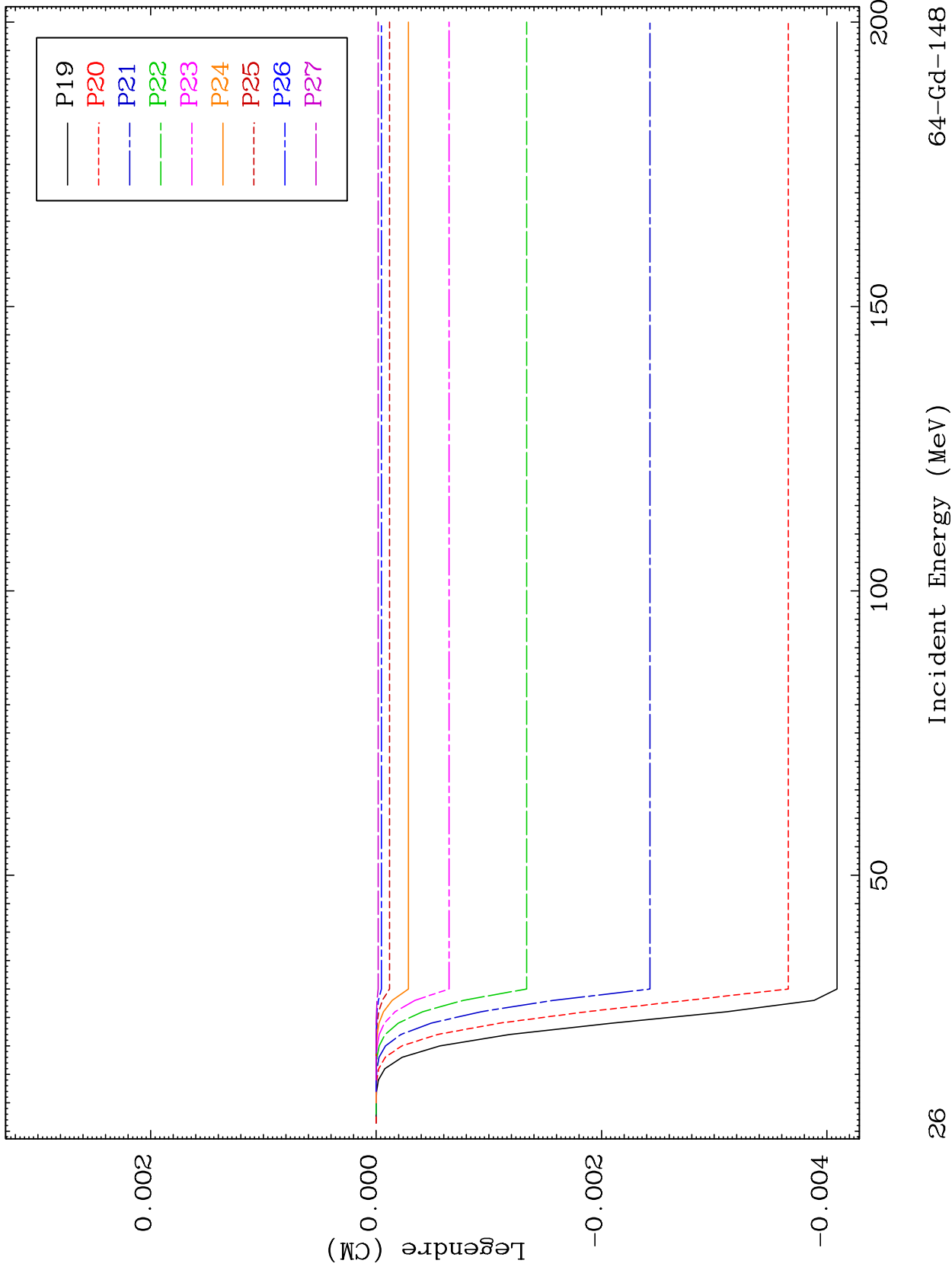
Incident Energy (MeV)

25

MAT 6413

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

64-Gd-148



26

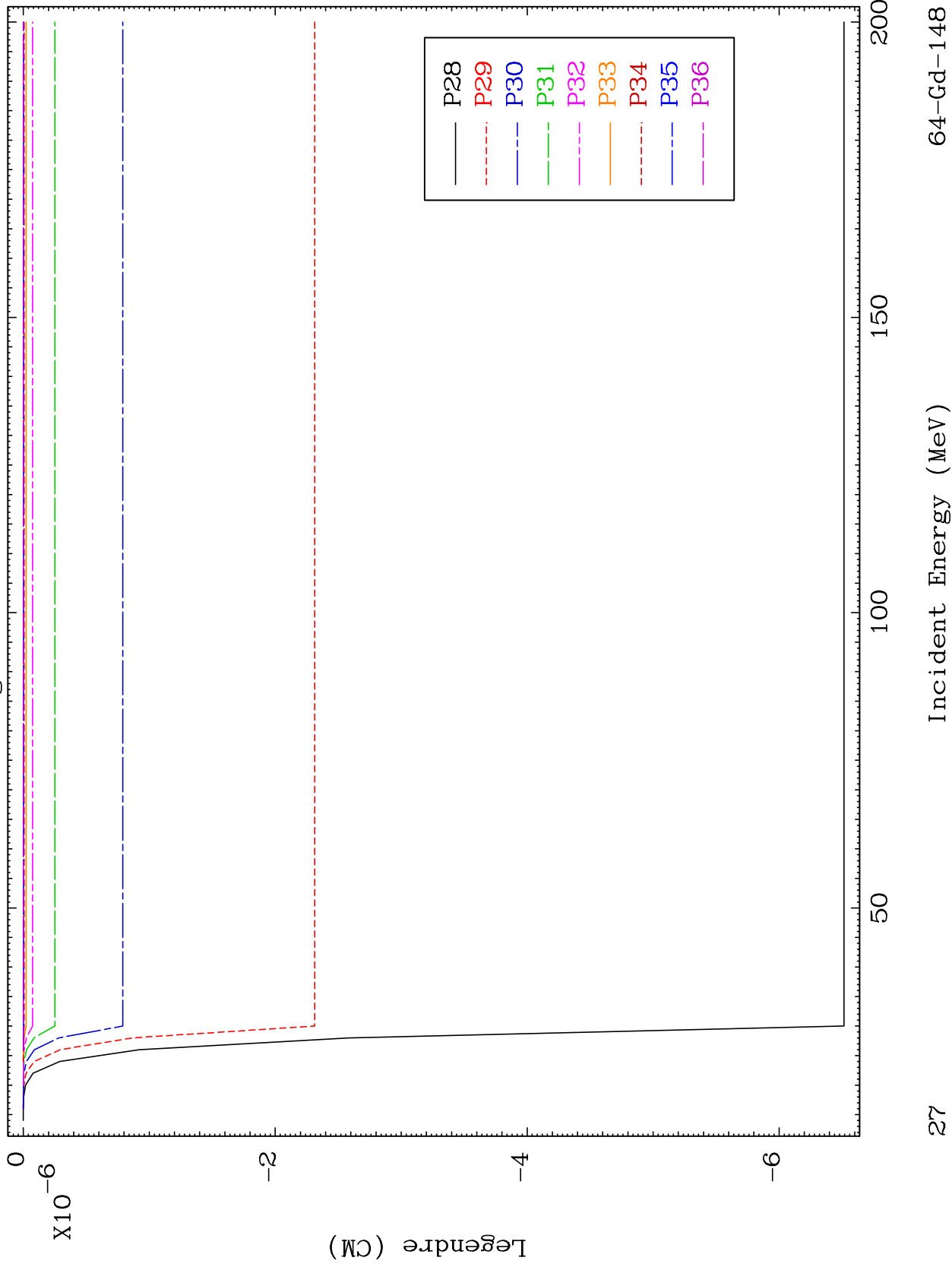
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

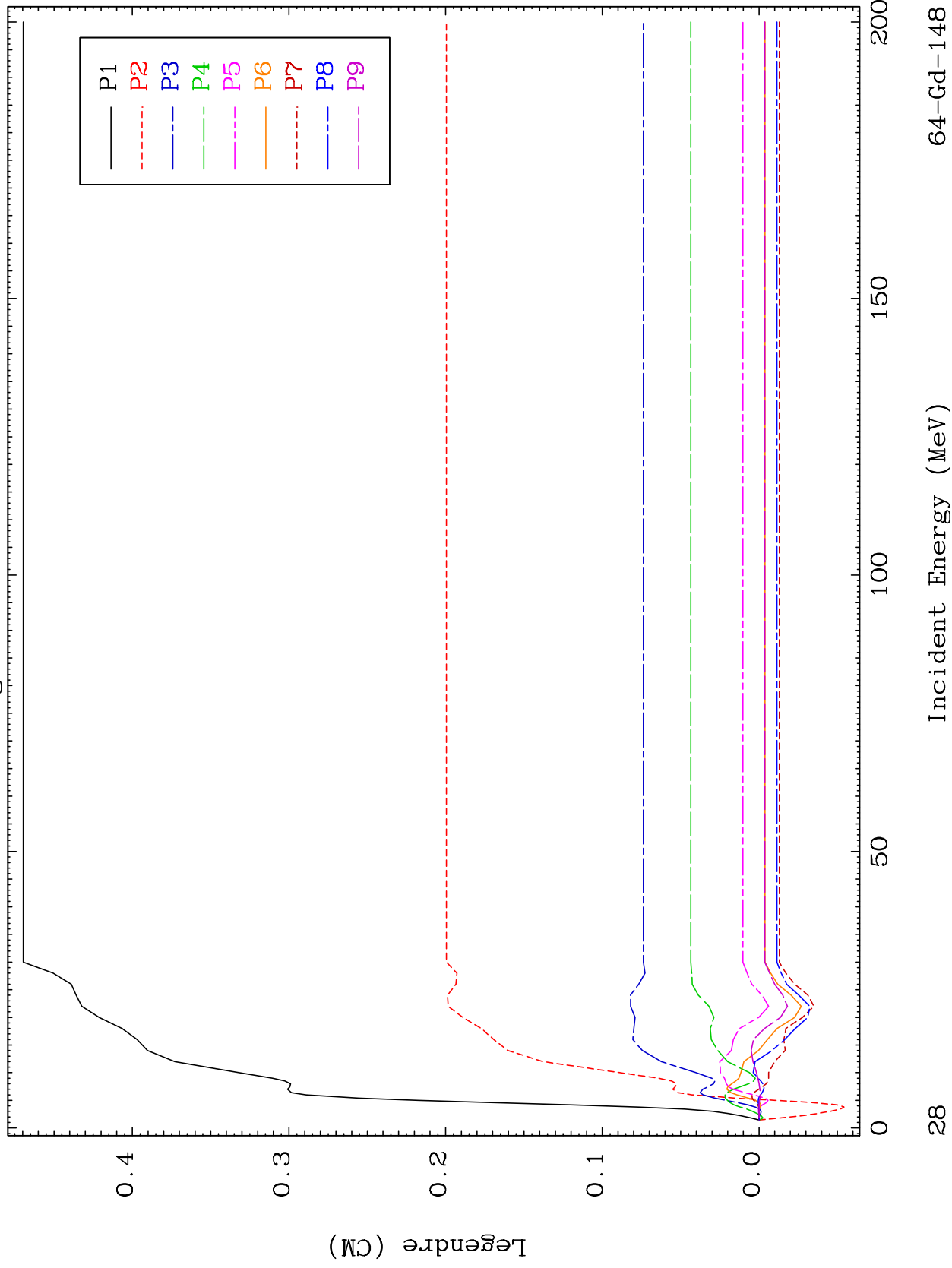
64-Gd-148



MAT 6413

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

64-Gd-148



64-Gd-148

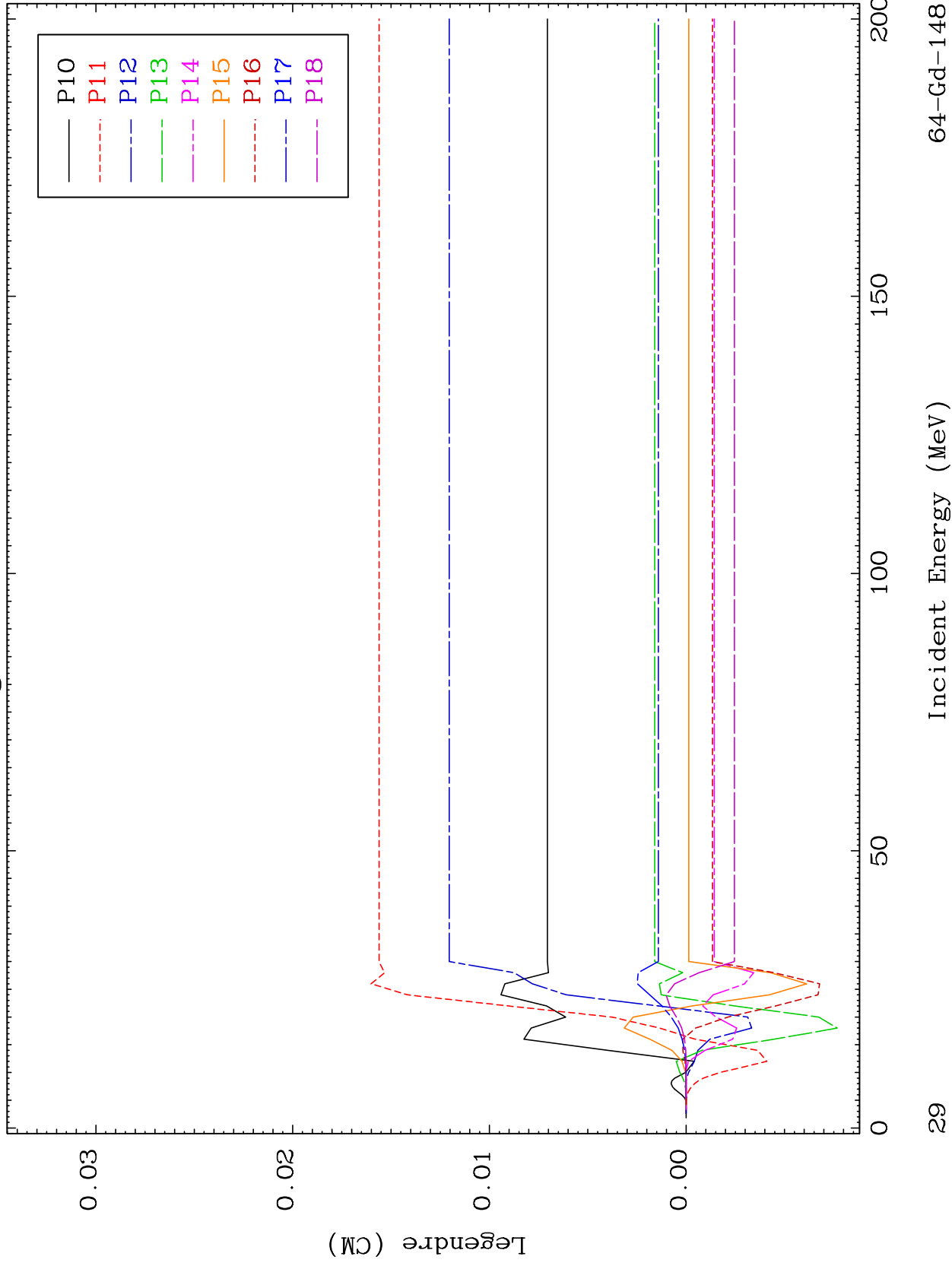
Incident Energy (MeV)

28

MAT 6413

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

64-Gd-148



64-Gd-148

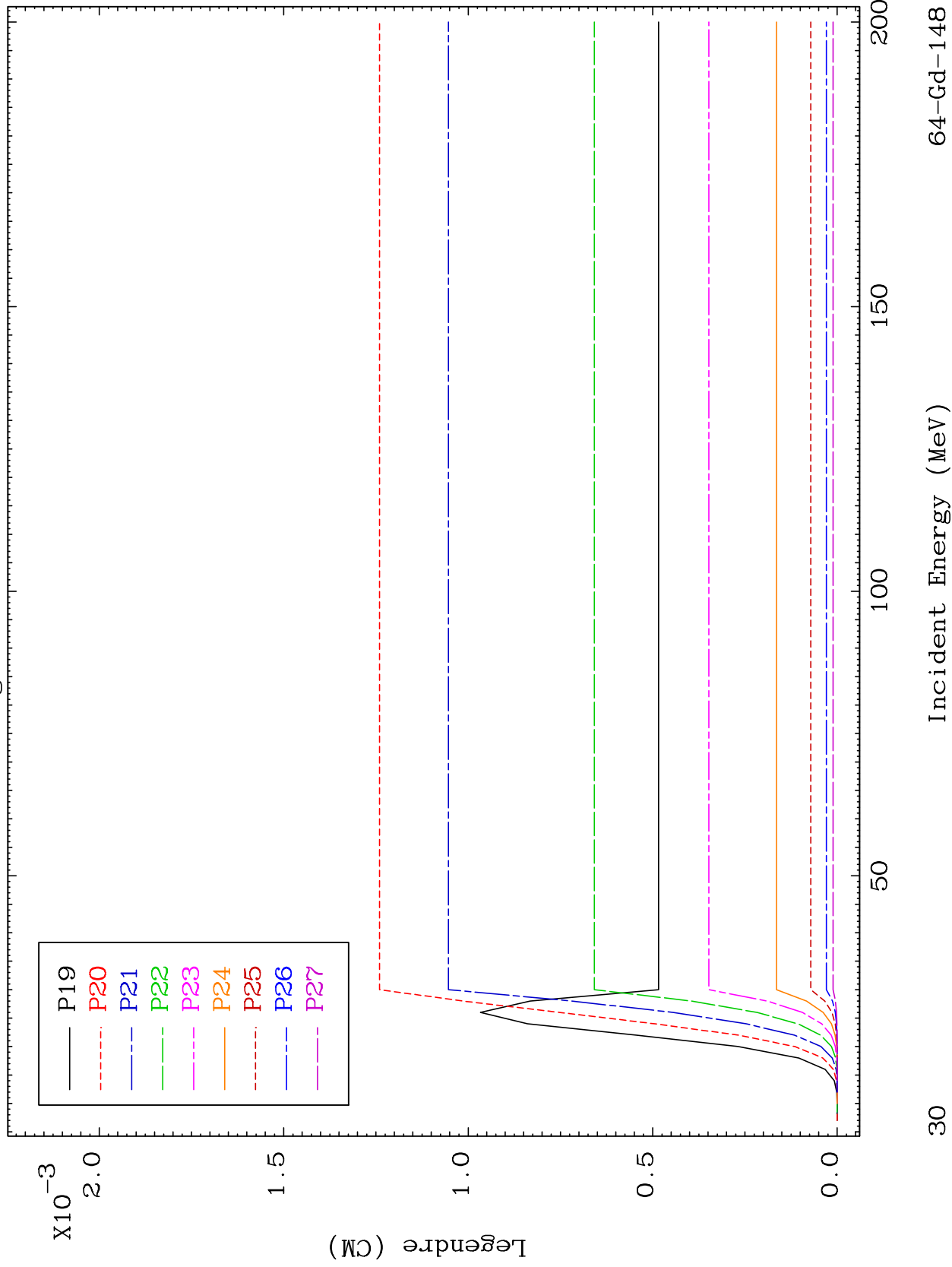
Incident Energy (MeV)

29

MAT 6413

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

64-Gd-148



64-Gd-148

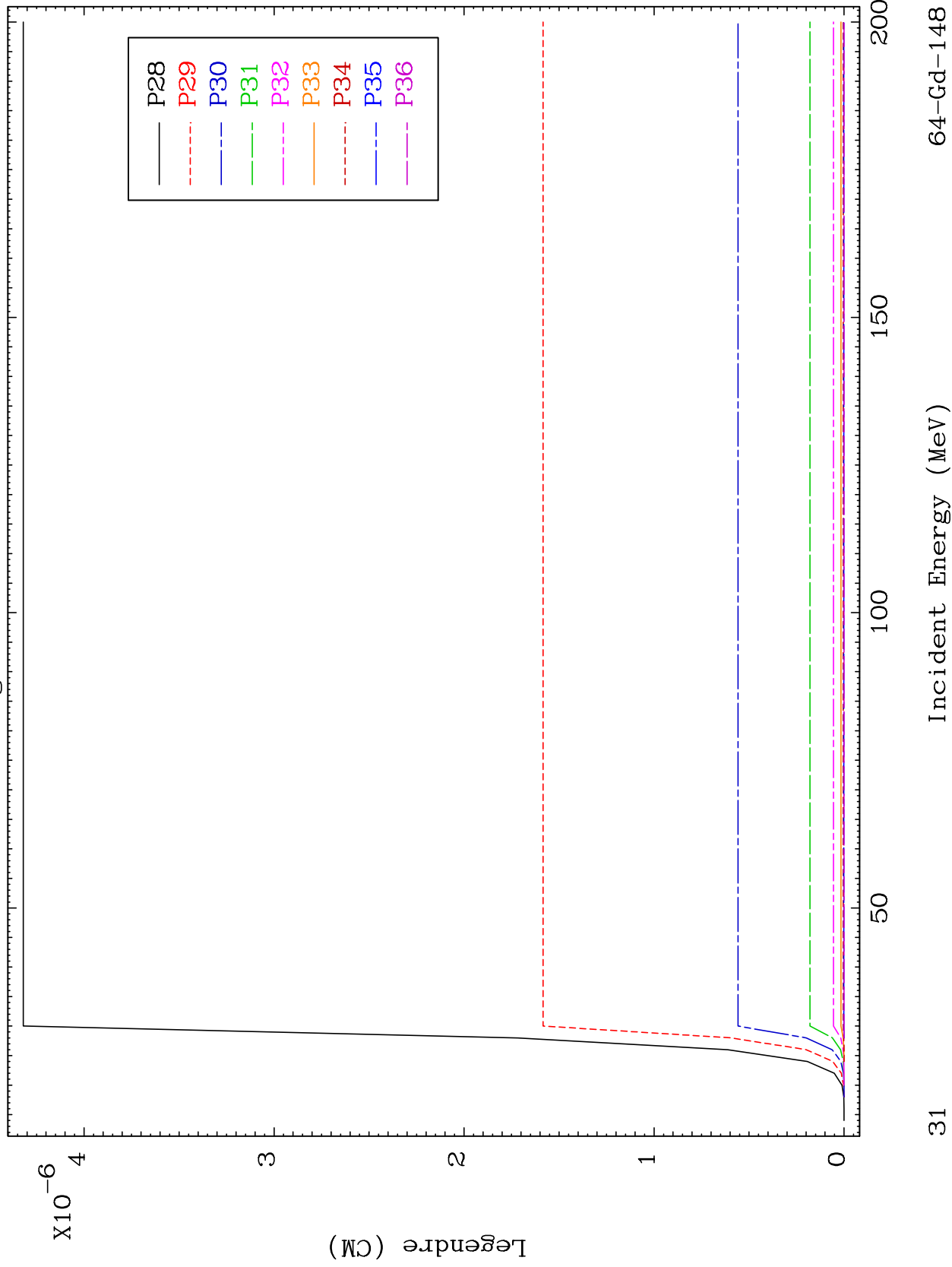
Incident Energy (MeV)

30

MAT 6413

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

64-Gd-148



31

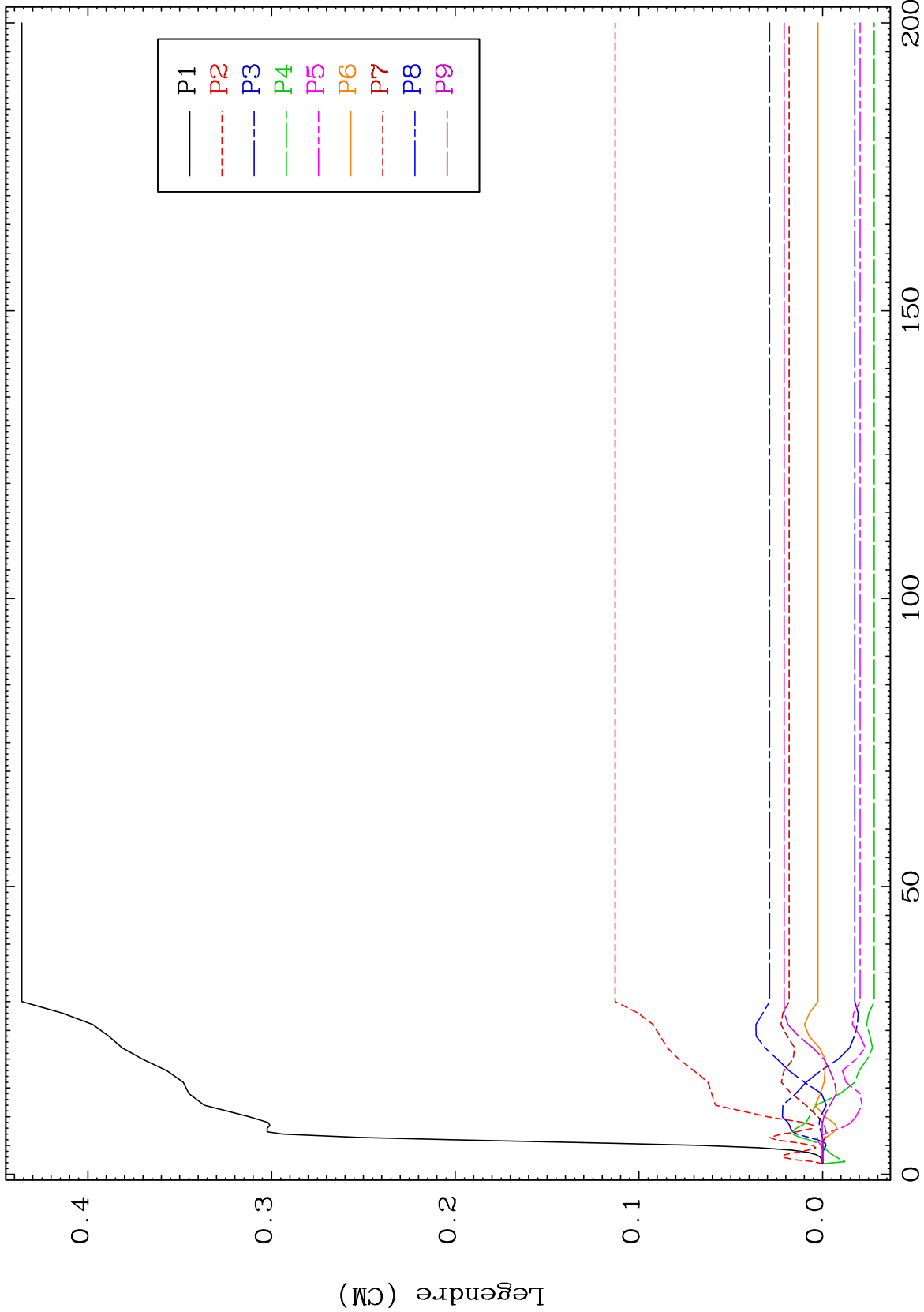
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

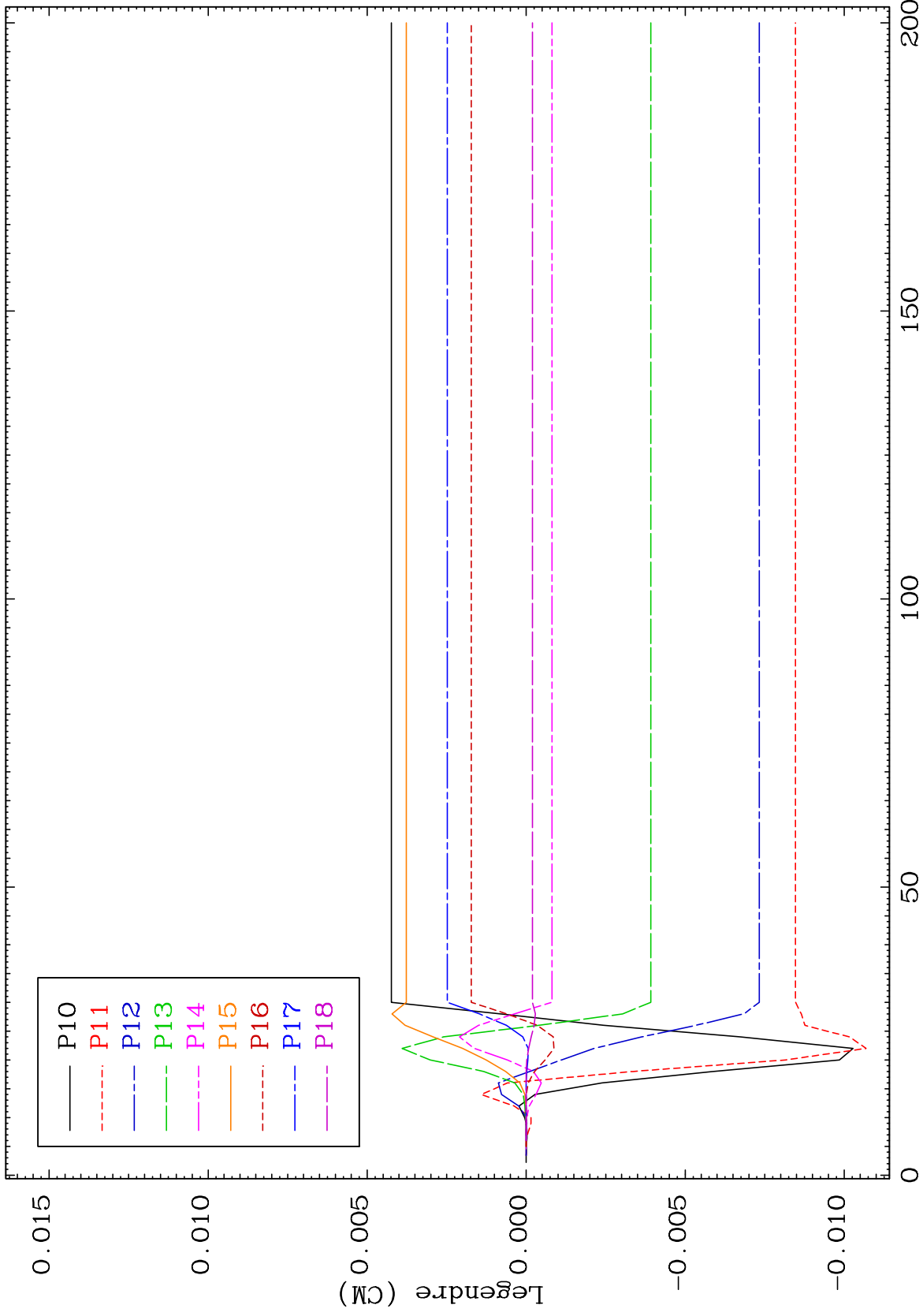
64-Gd-148



32

Incident Energy (MeV)

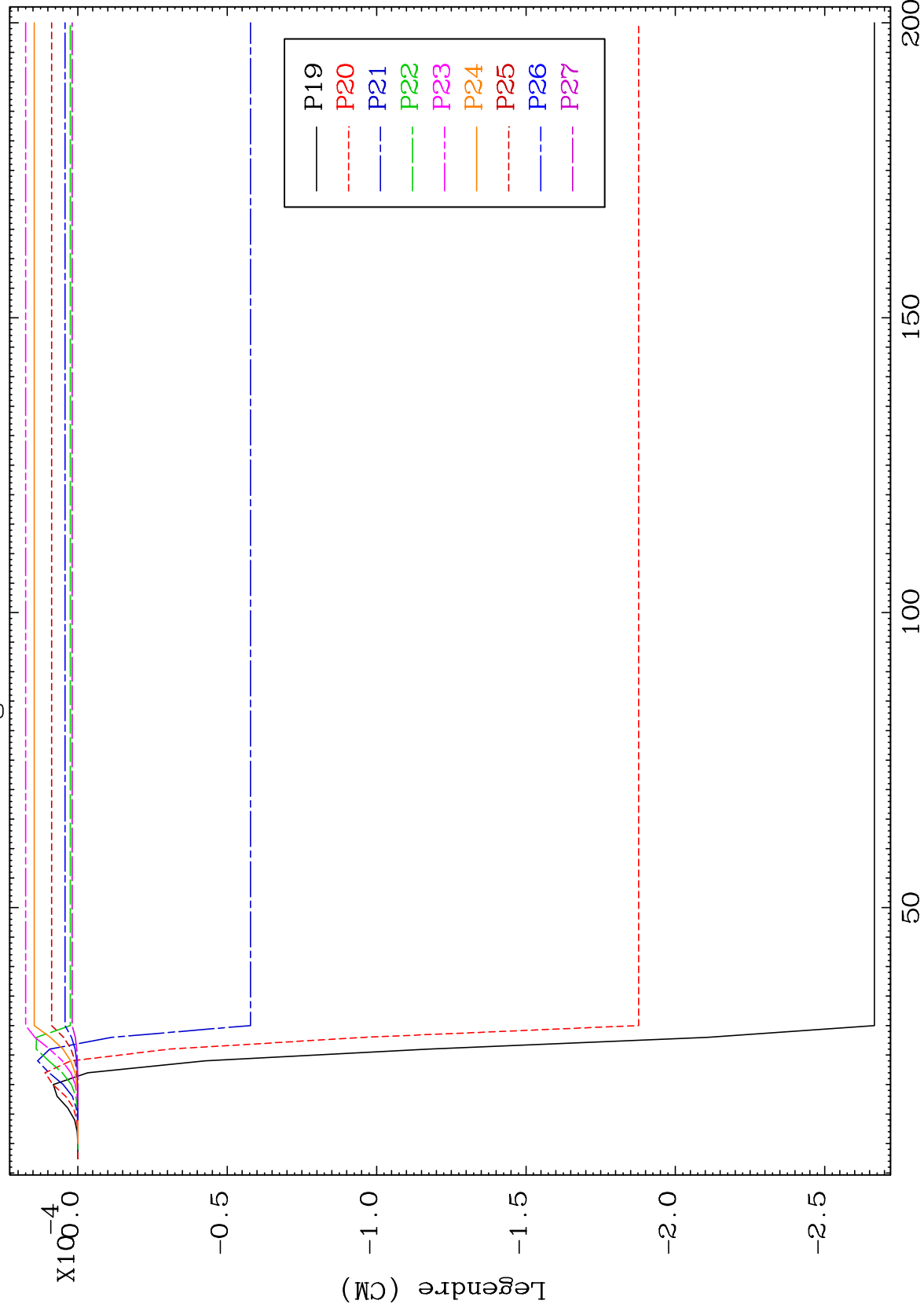
64-Gd-148



MAT 6413

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

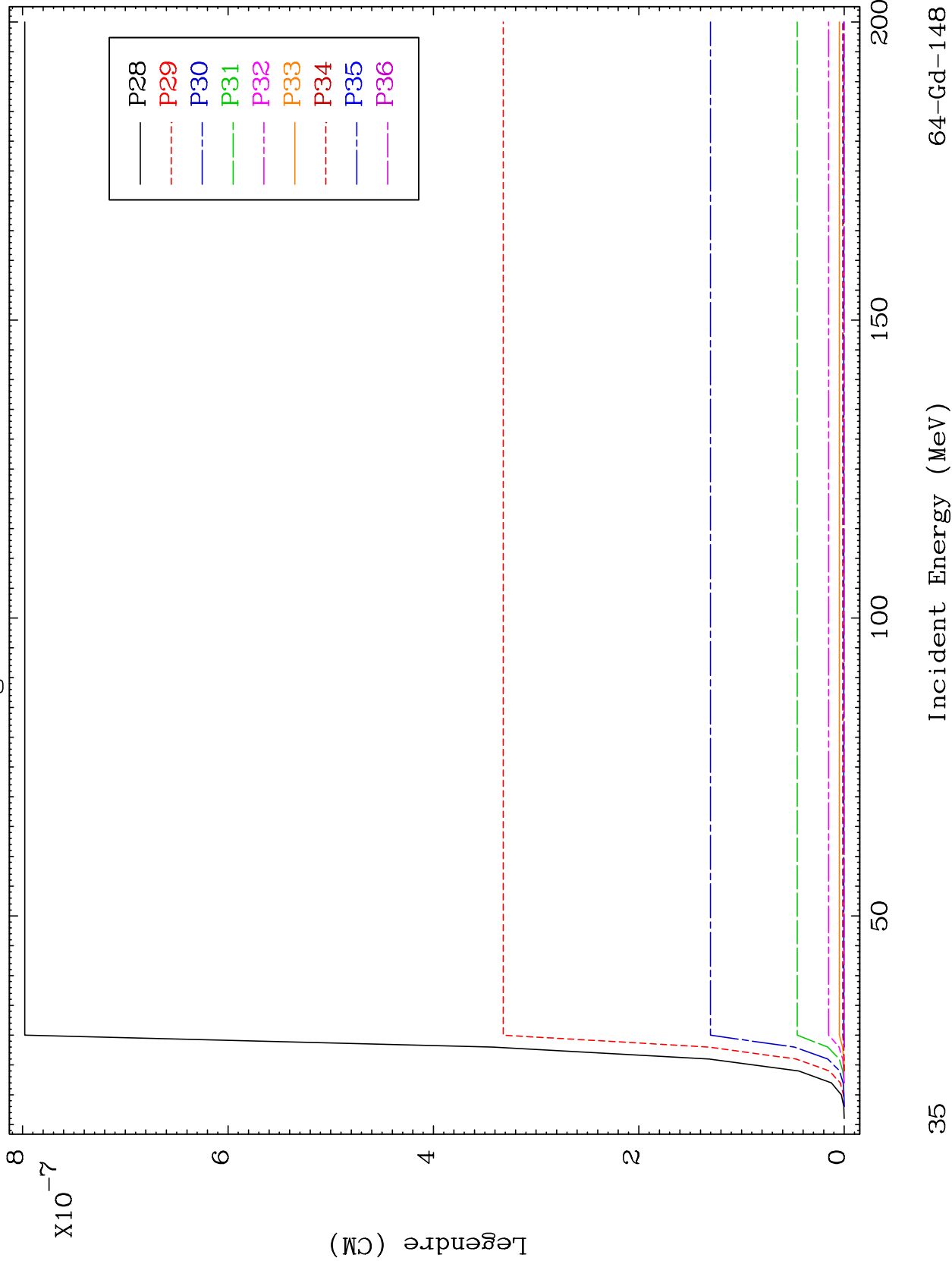
64-Gd-148



MAT 6413

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

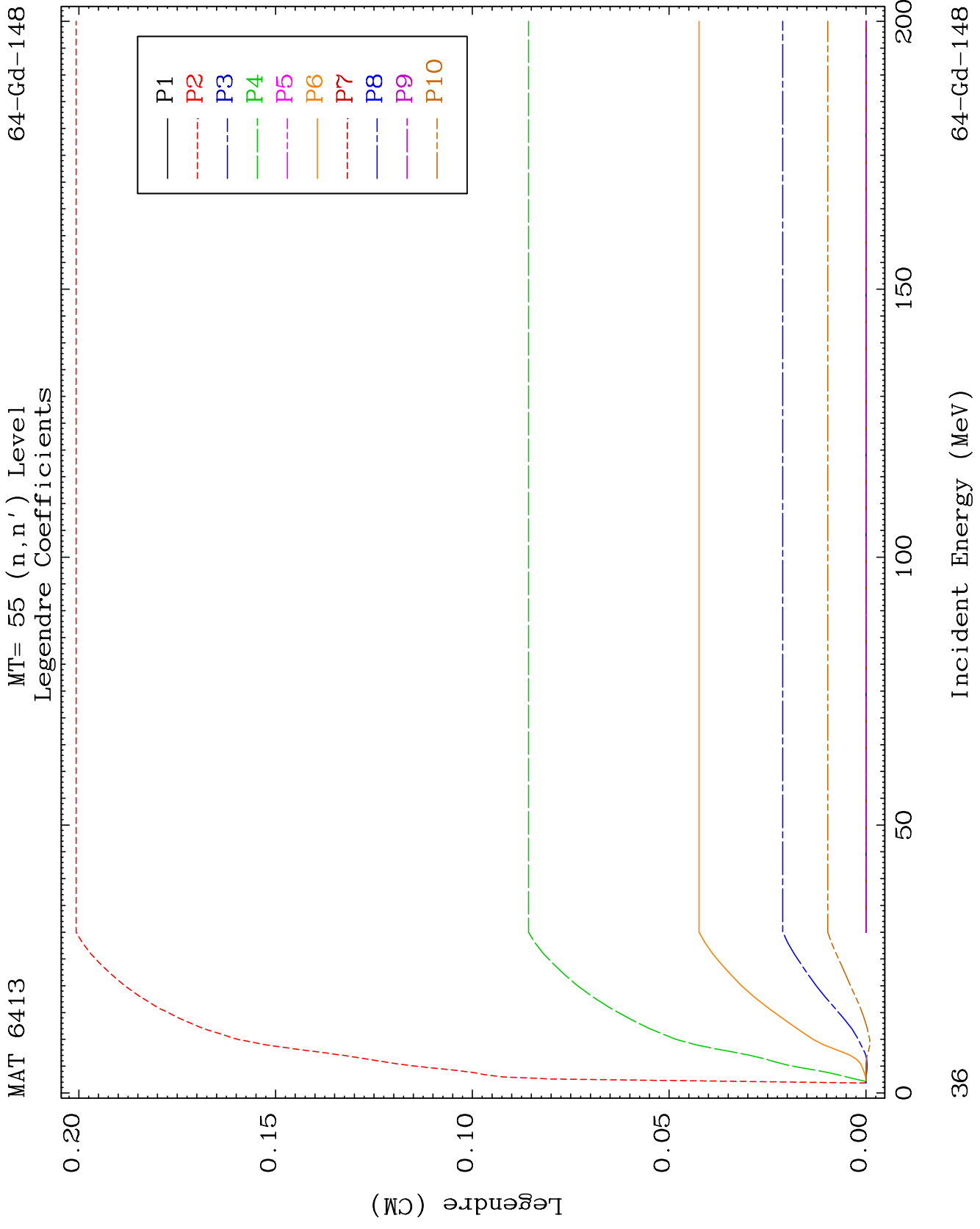
64-Gd-148



35

Incident Energy (MeV)

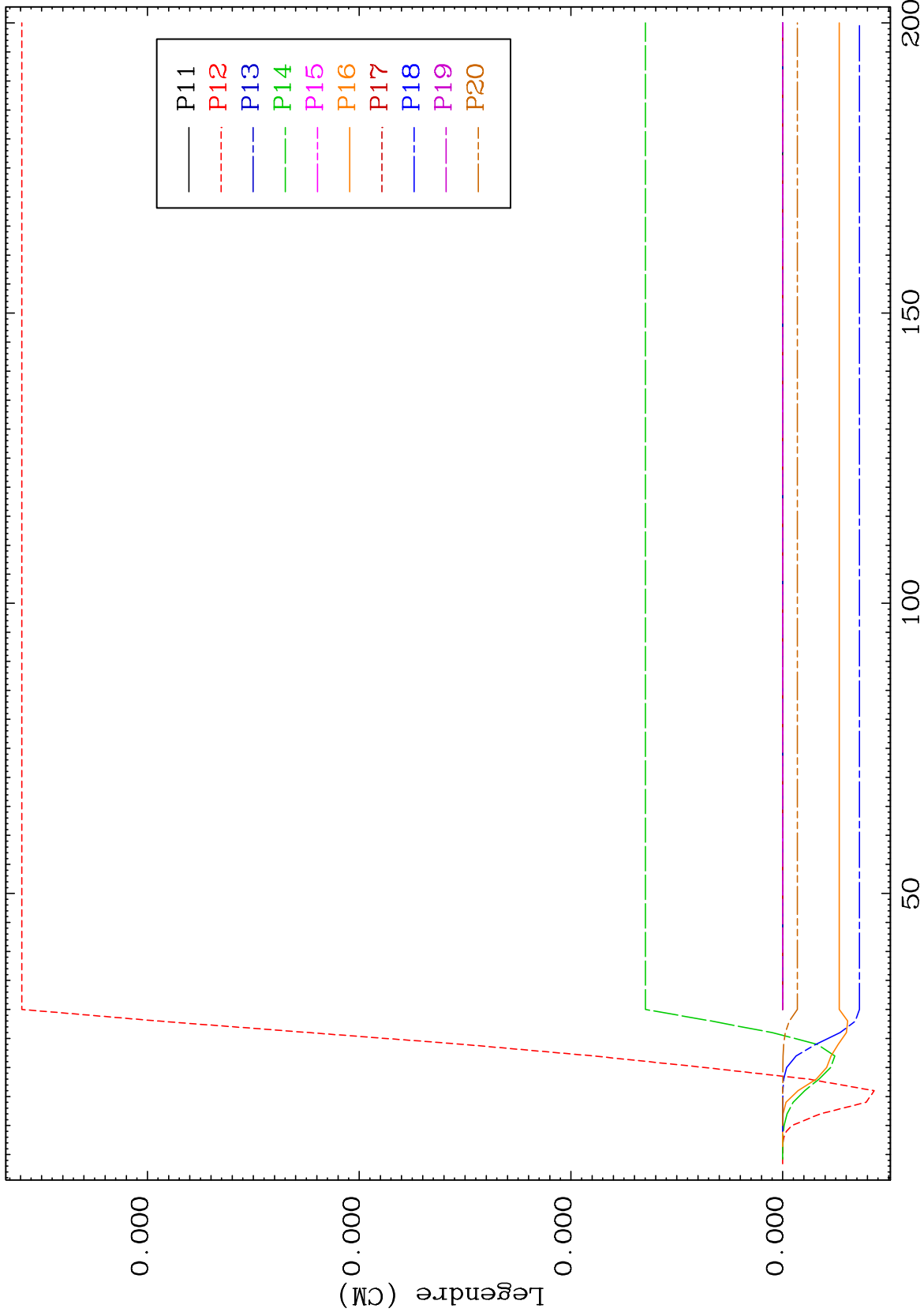
64-Gd-148



MAT 6413

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

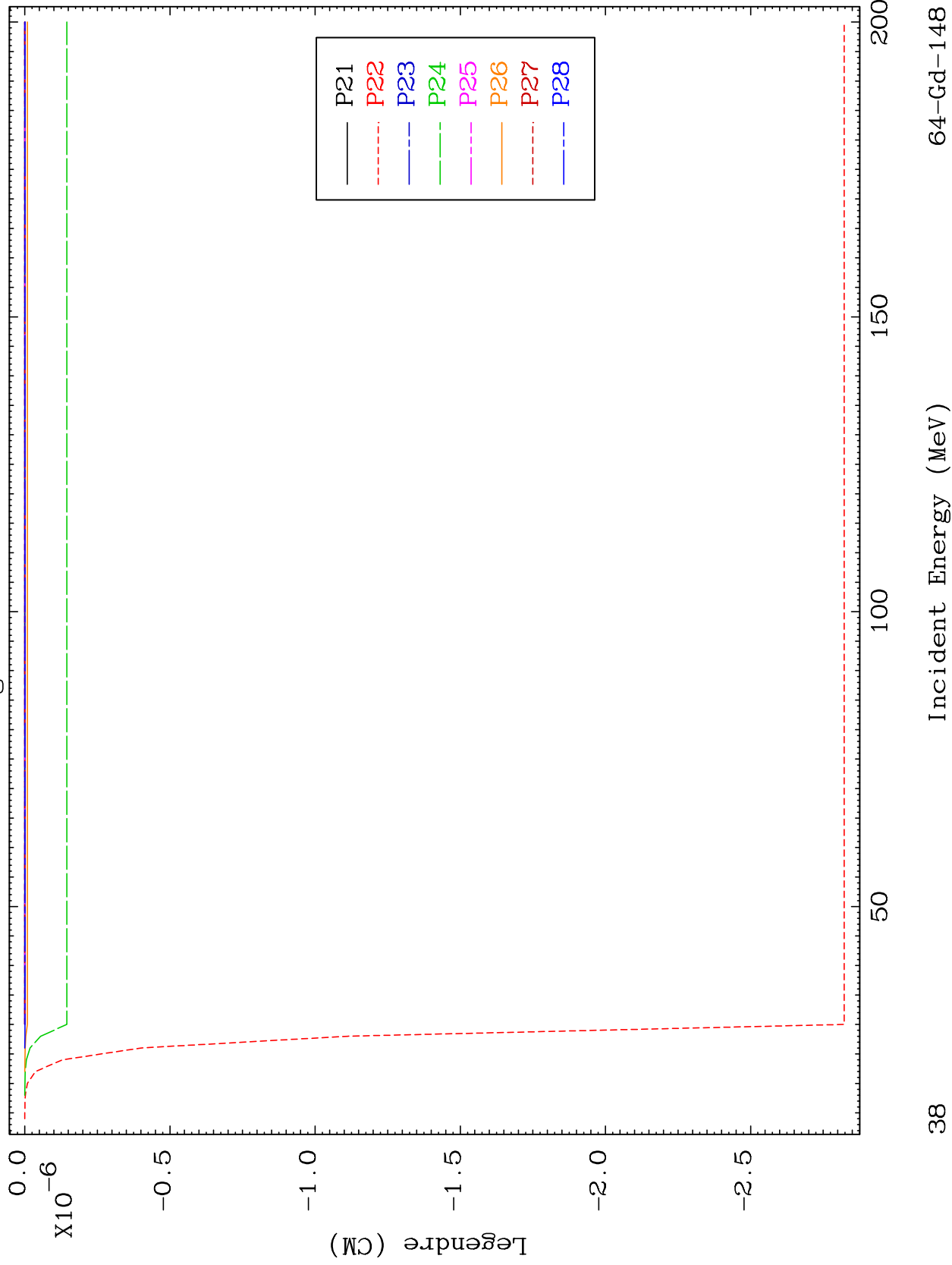
64-Gd-148



MAT 6413

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

64-Gd-148



38

Incident Energy (MeV)

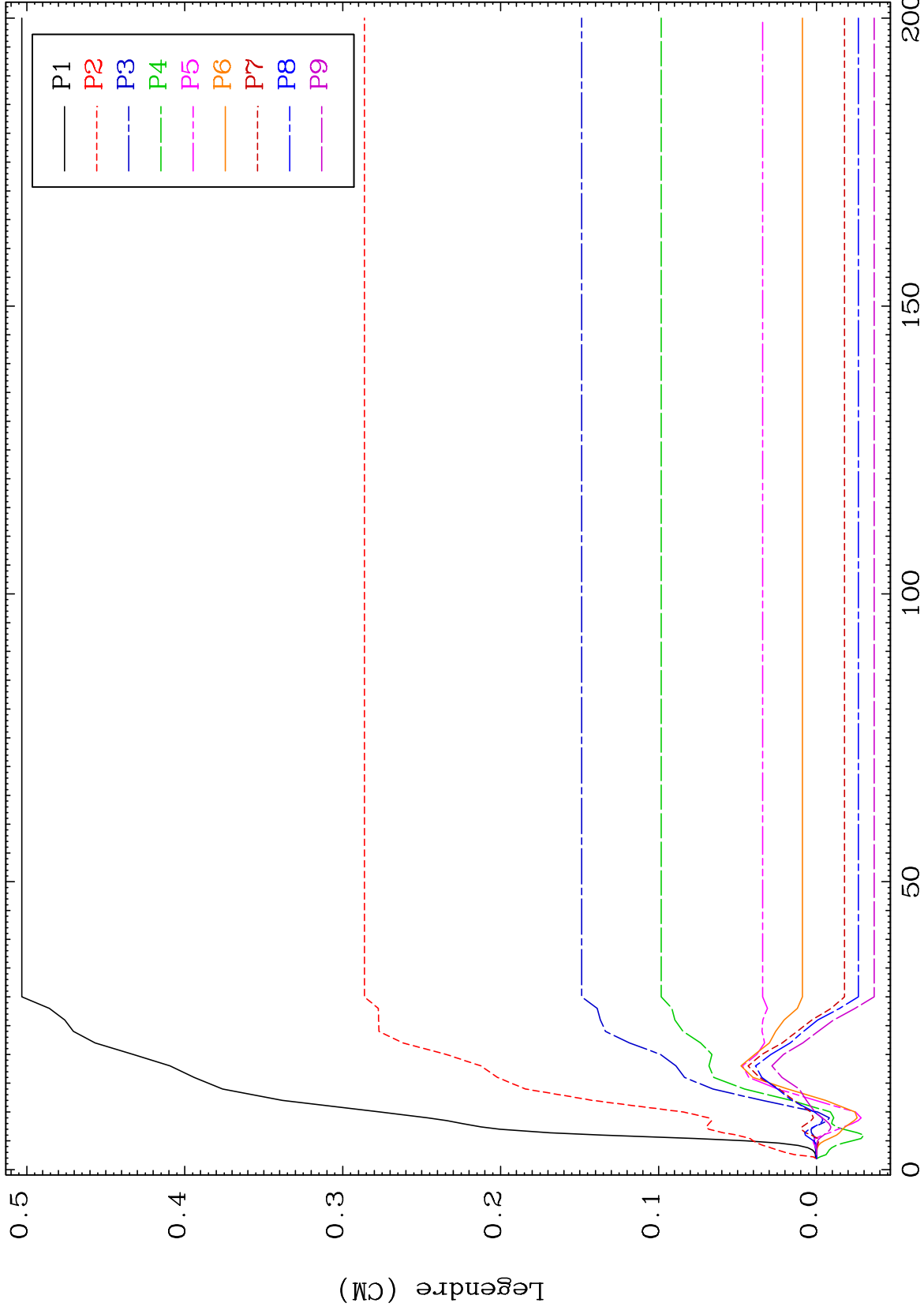
64-Gd-148

MAT 6413

MT= 56 (n,n') Level

64-Gd-148

Legendre Coefficients



39

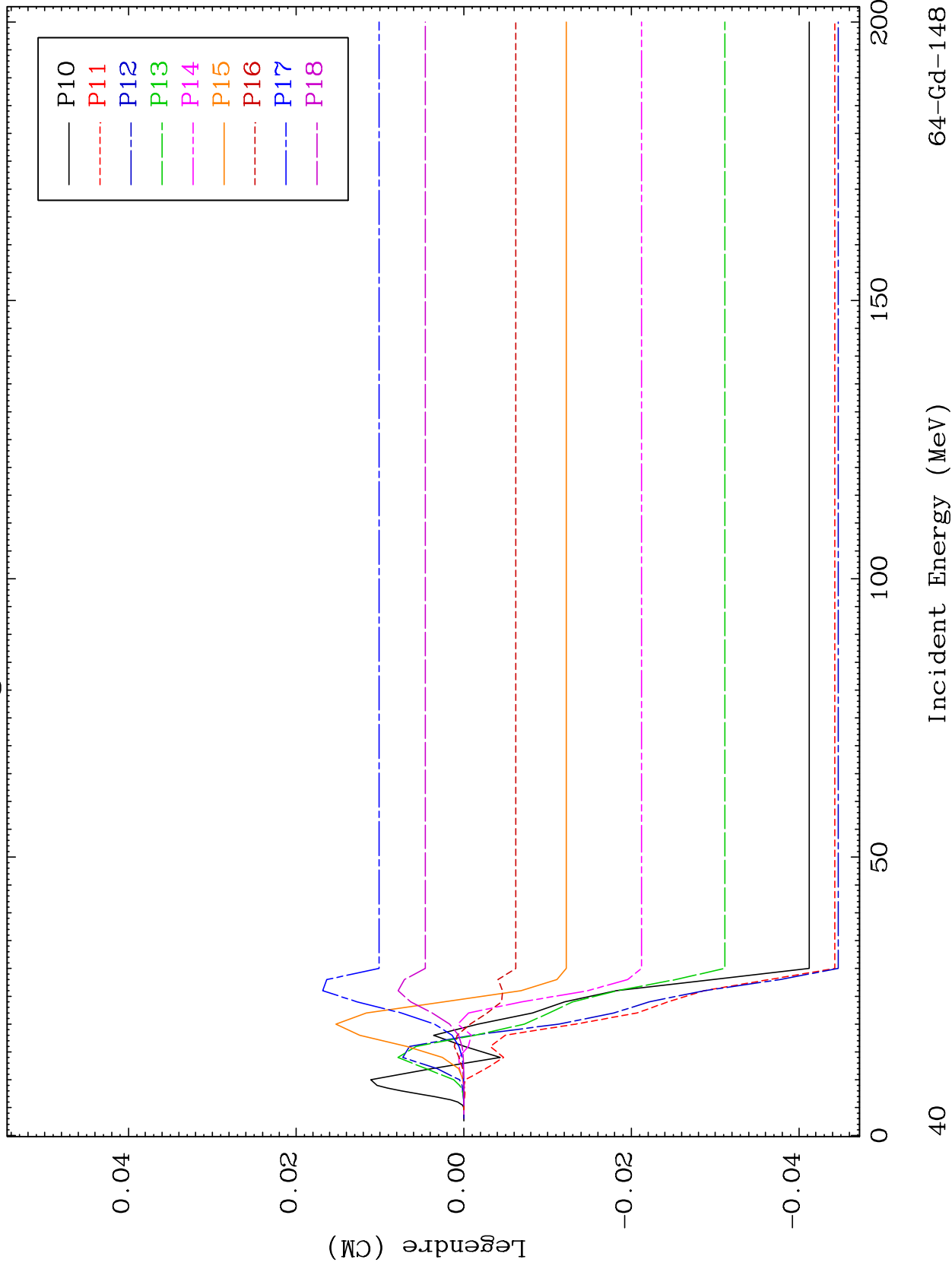
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



64-Gd-148

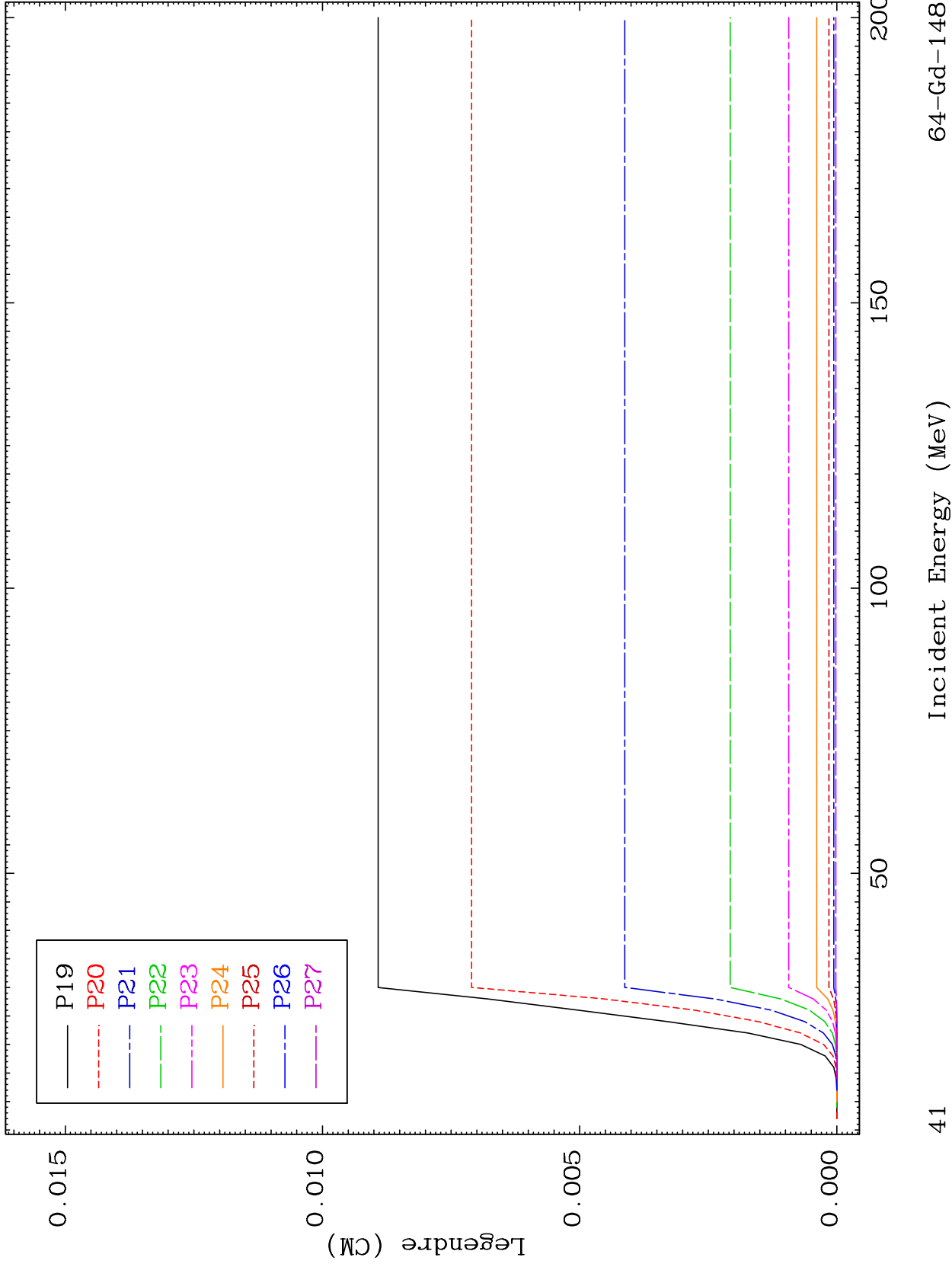
Incident Energy (MeV)

40

MAT 6413

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

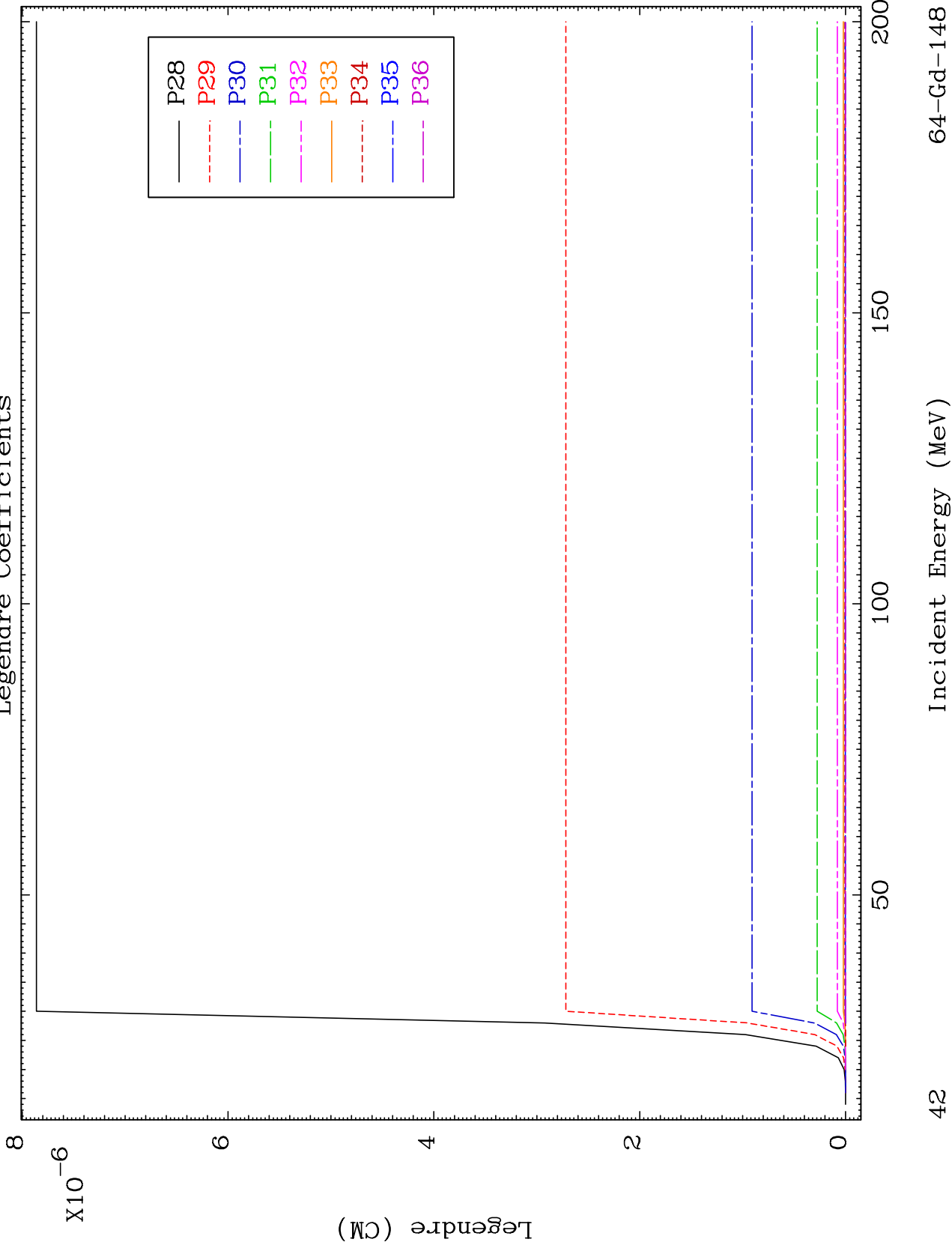
64-Gd-148



MAT 6413

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

64-Gd-148



42

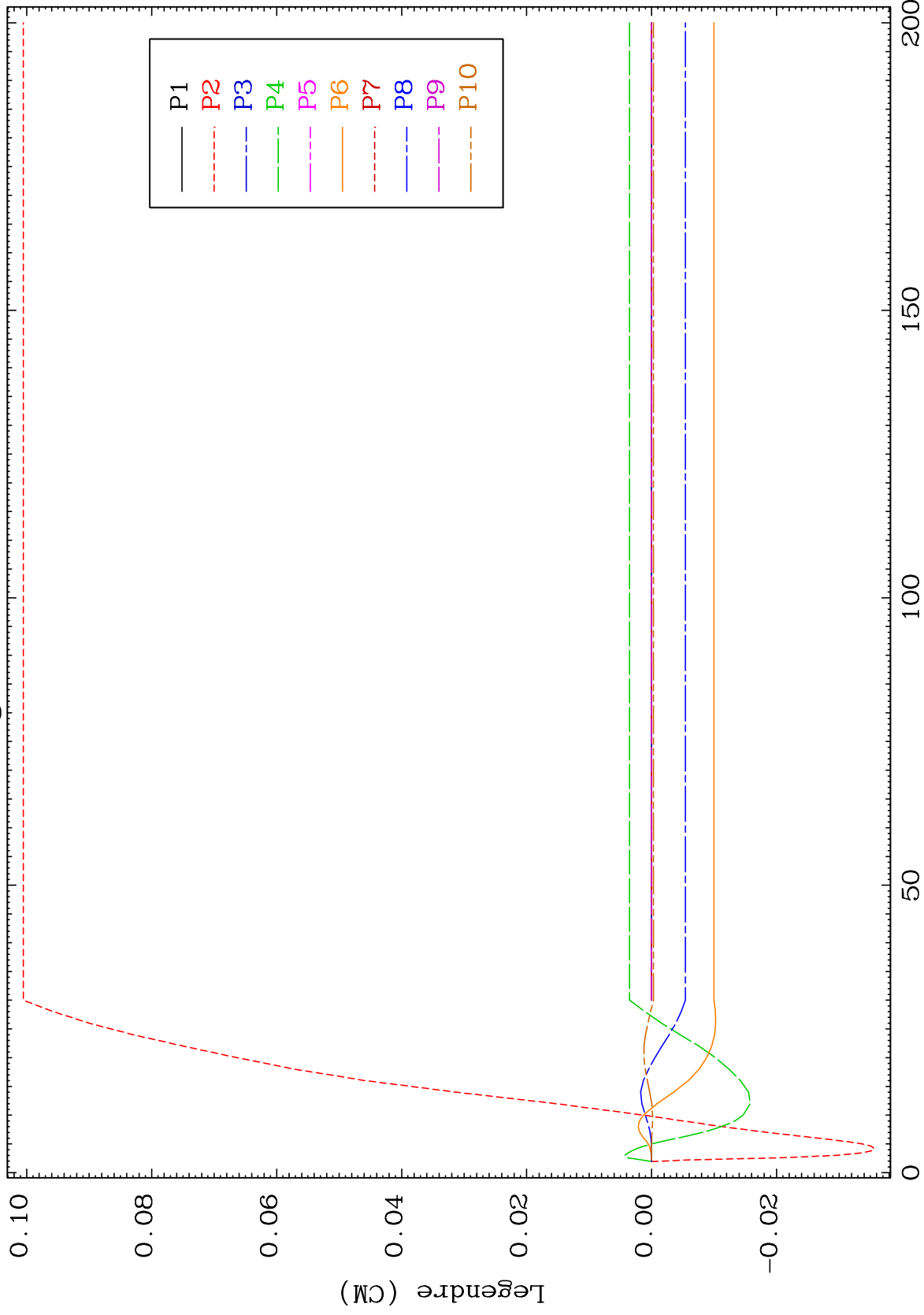
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

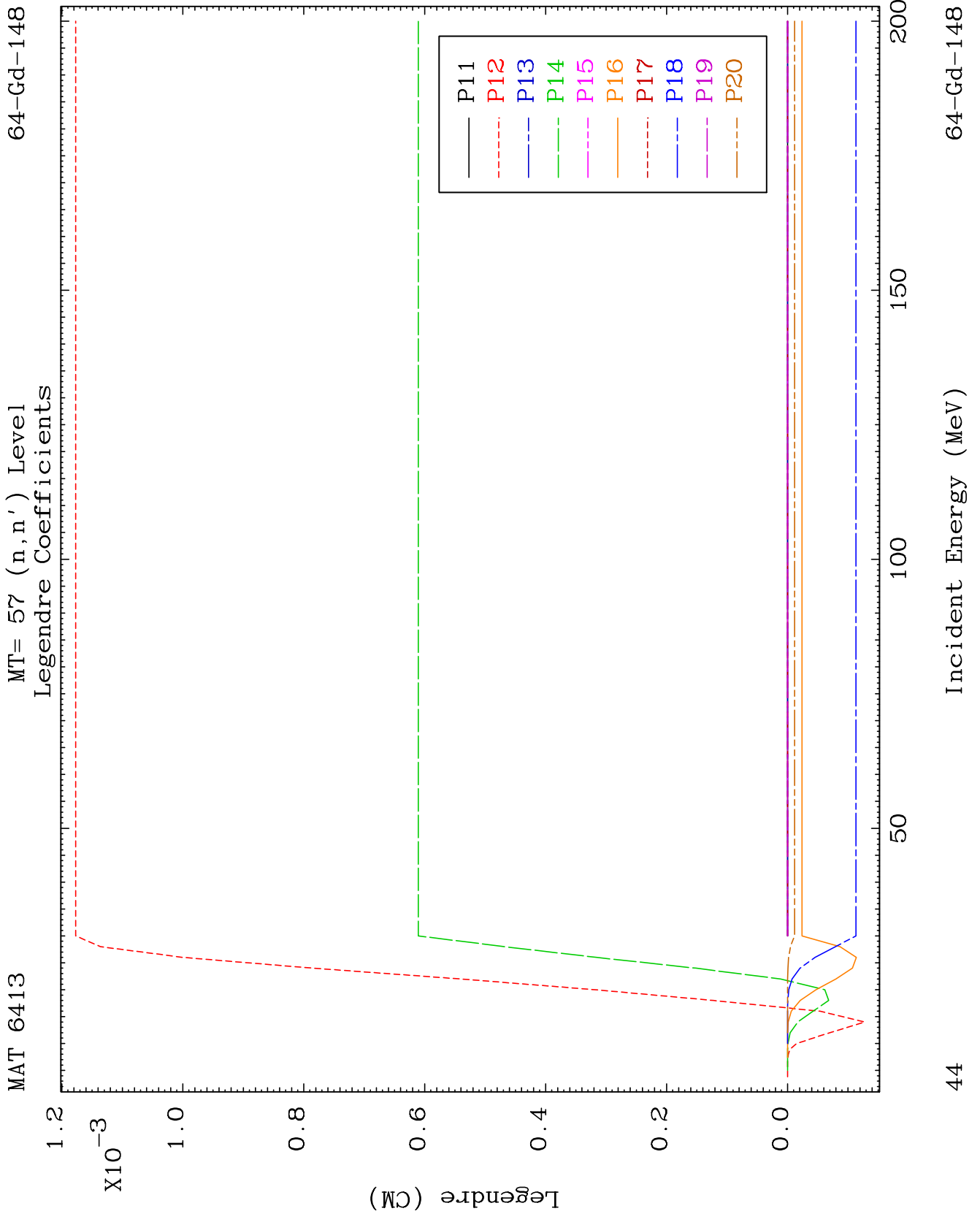
64-Gd-148



43

64-Gd-148

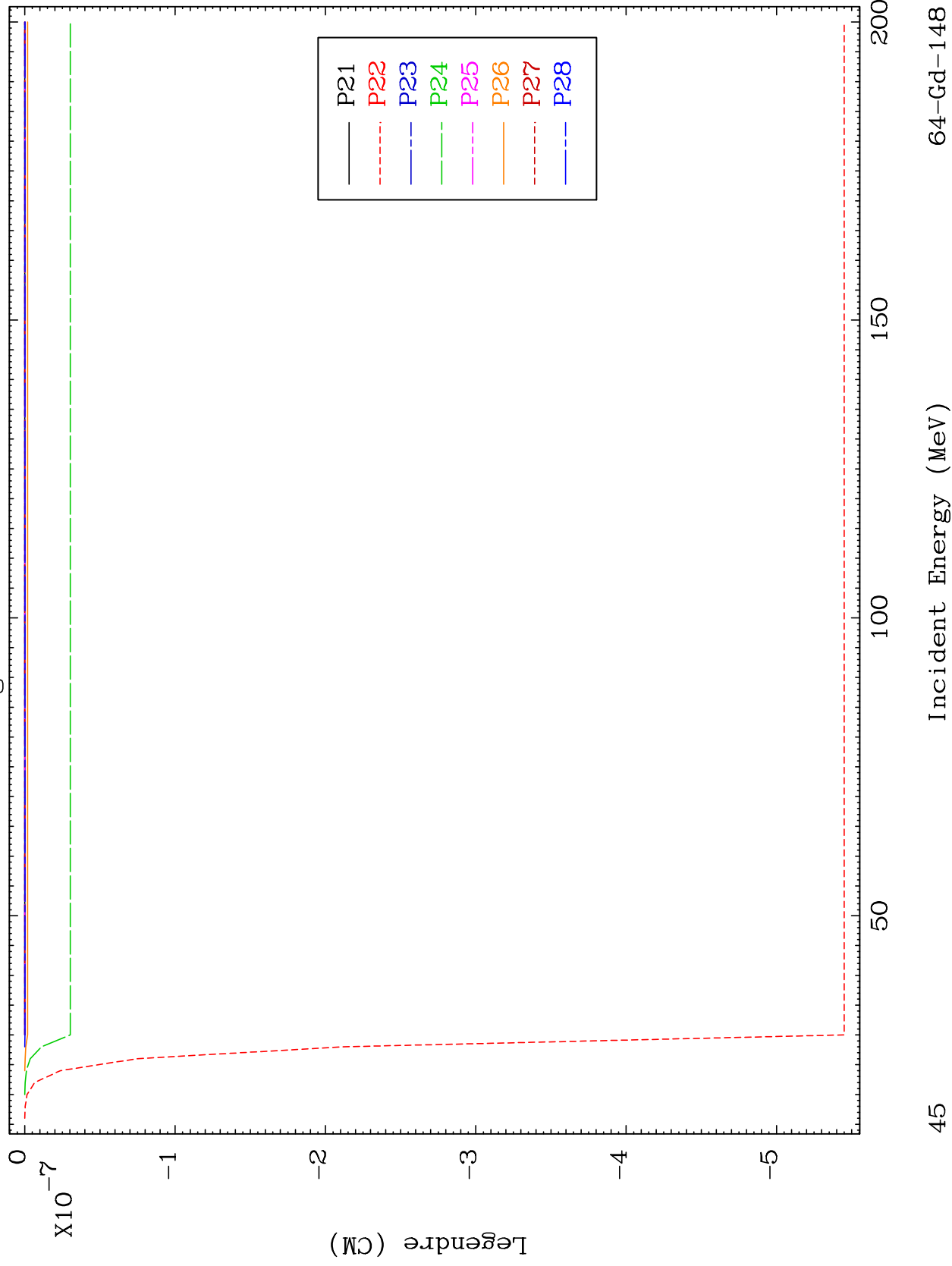
64-Gd-148



MAT 6413

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

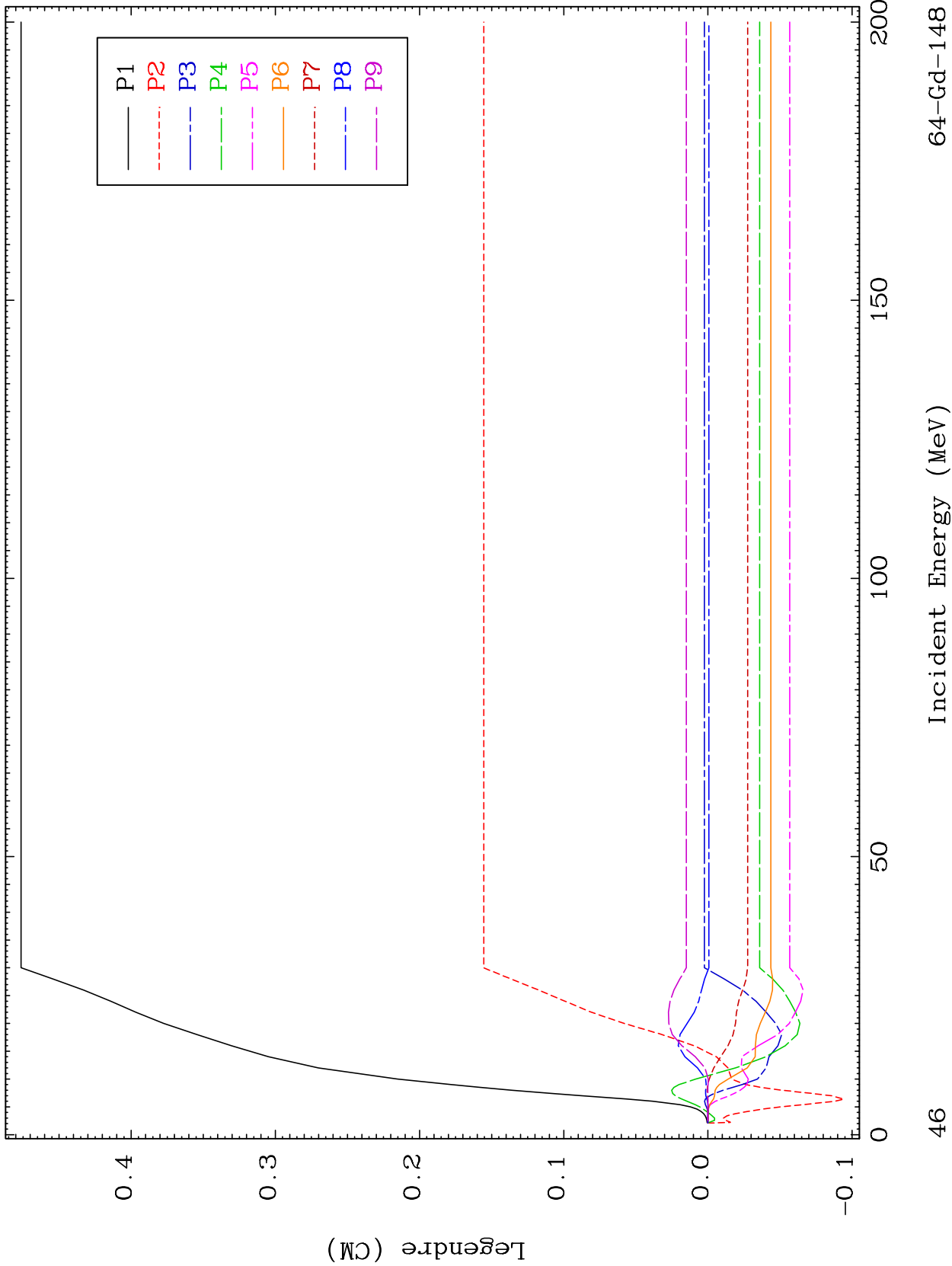
64-Gd-148



MAT 6413

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

64-Gd-148



64-Gd-148

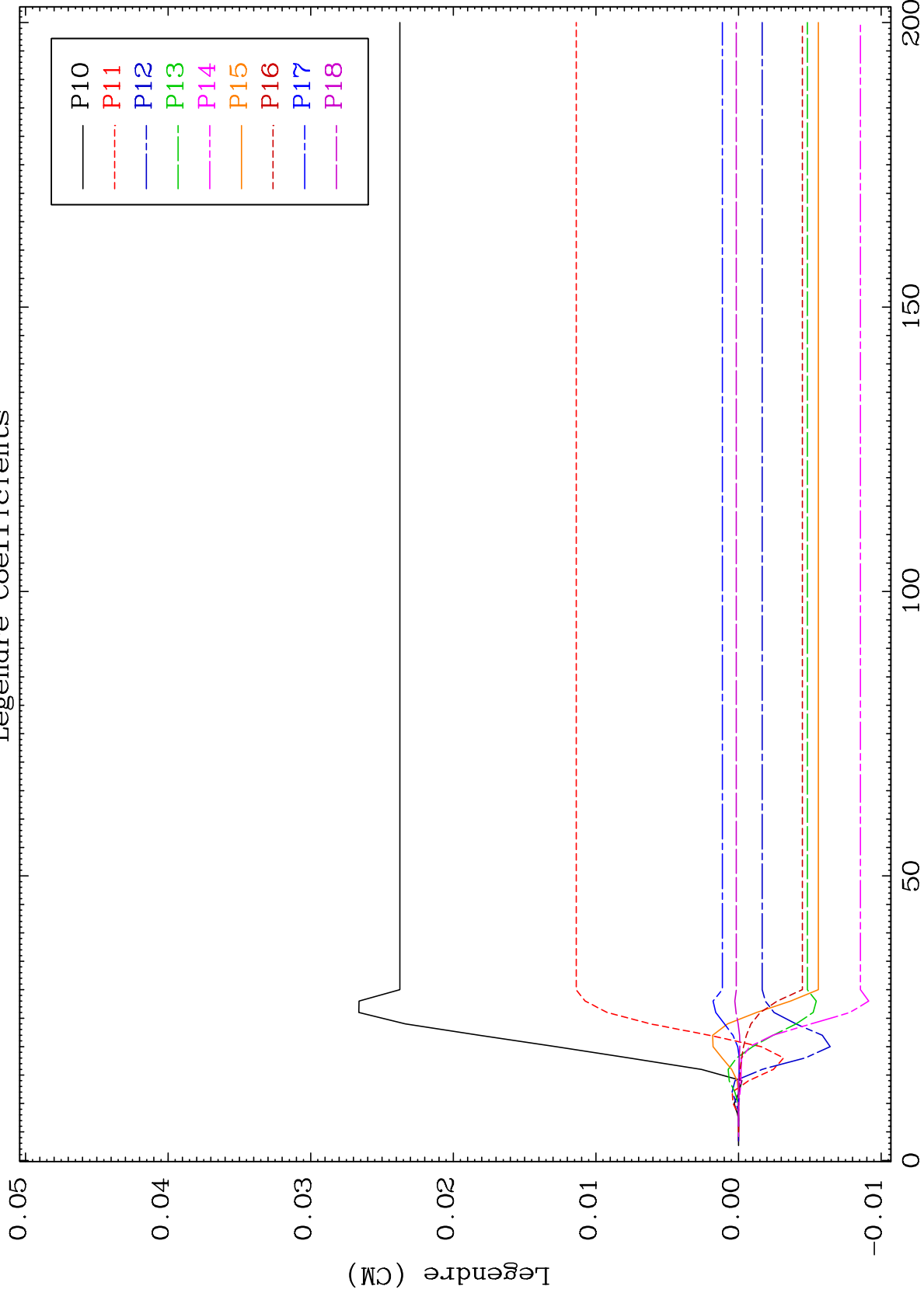
Incident Energy (MeV)

46

MAT 6413

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

64-Gd-148



47

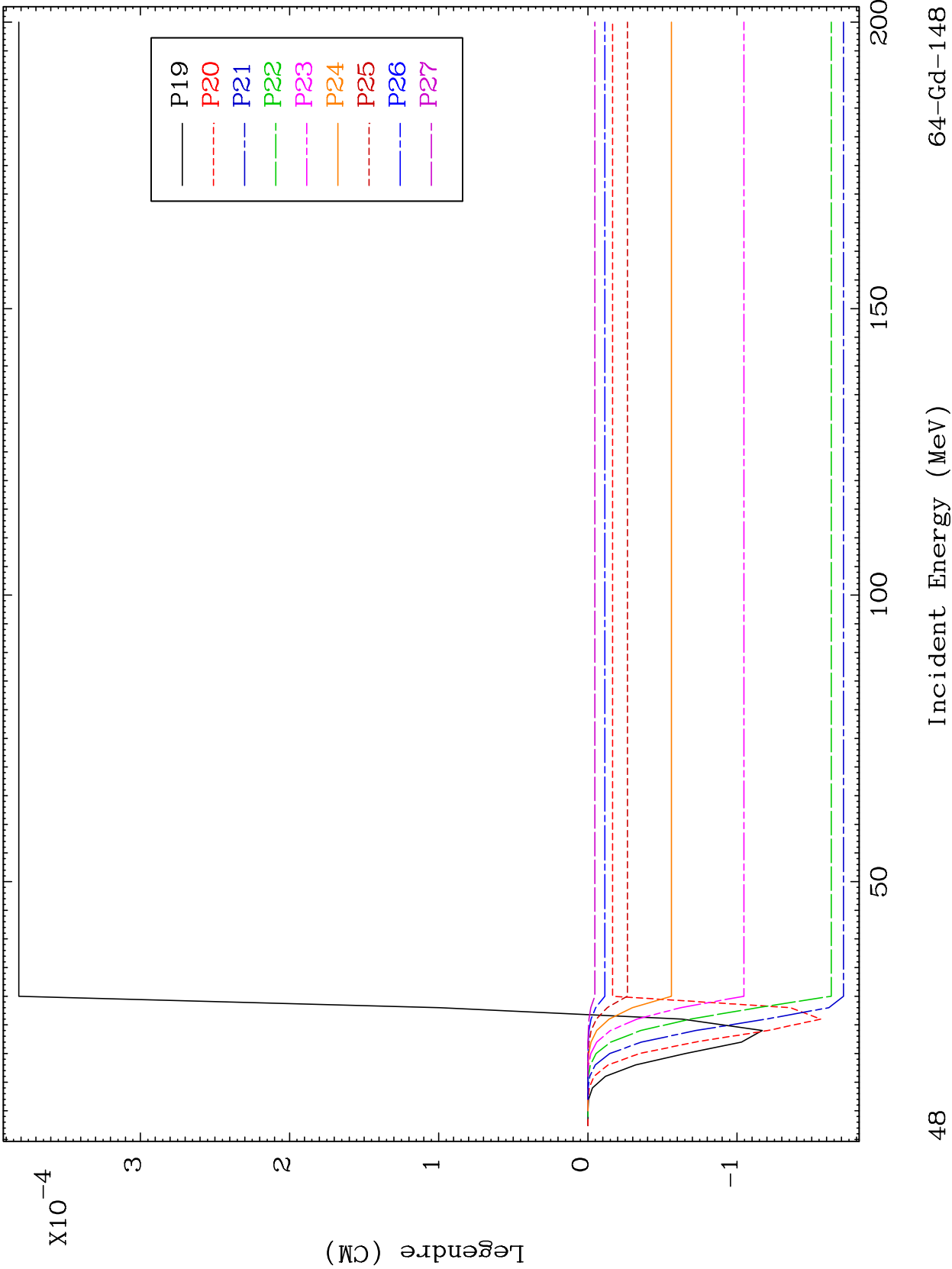
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



48

Incident Energy (MeV)

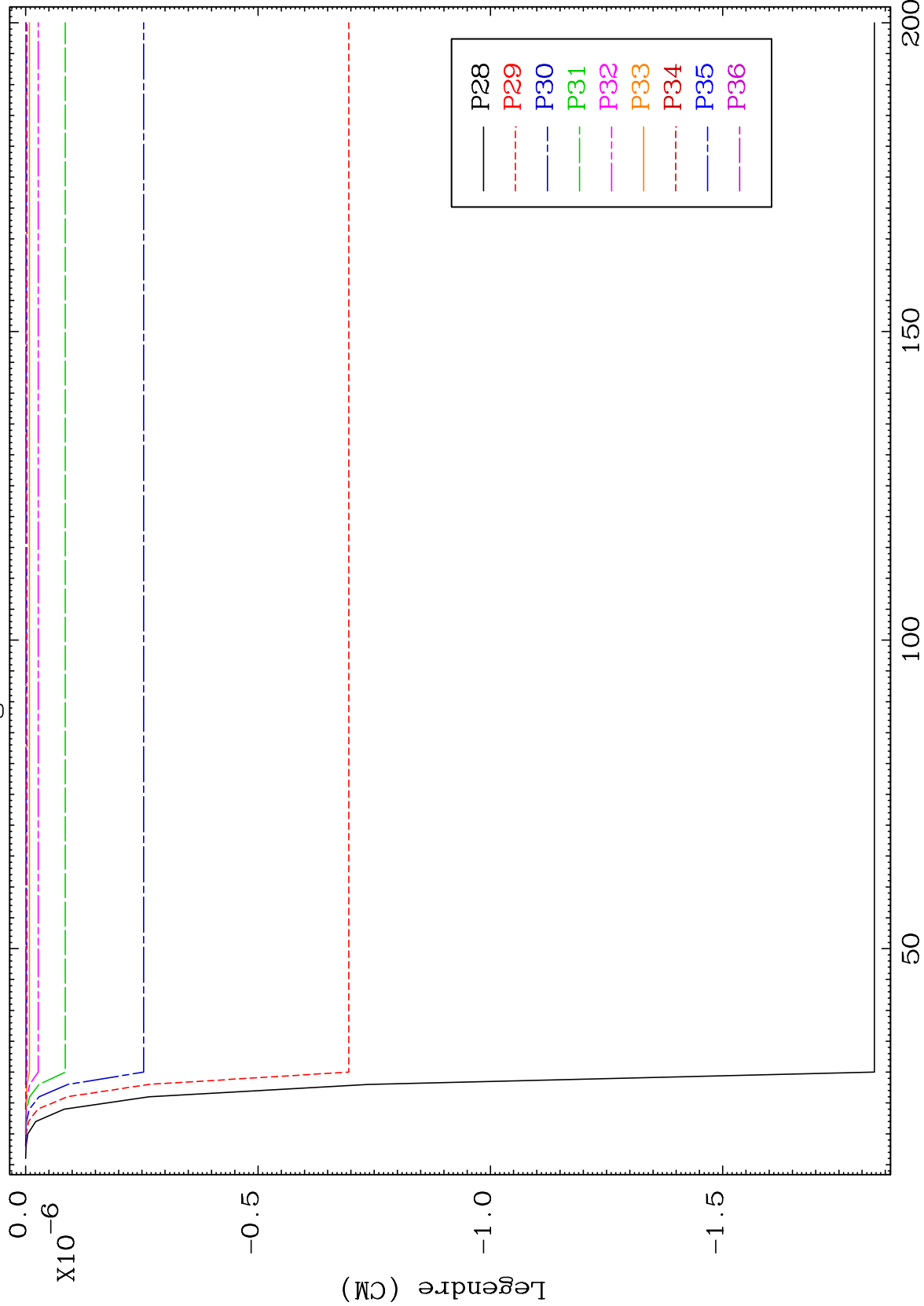
64-Gd-148

MAT 6413

MT= 58 (n,n') Level

64-Gd-148

Legendre Coefficients



64-Gd-148

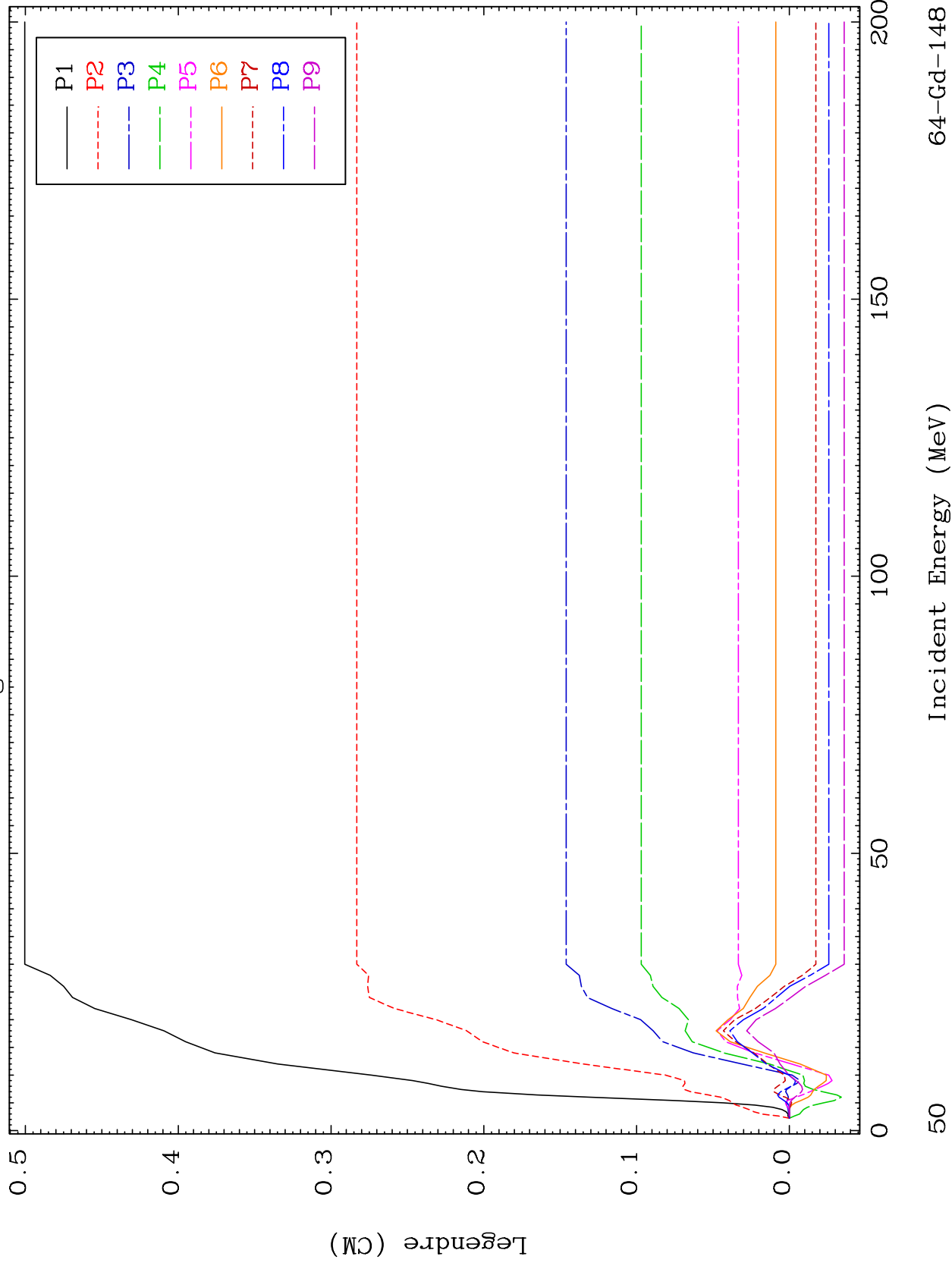
Incident Energy (MeV)

49

MAT 6413

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

64-Gd-148



64-Gd-148

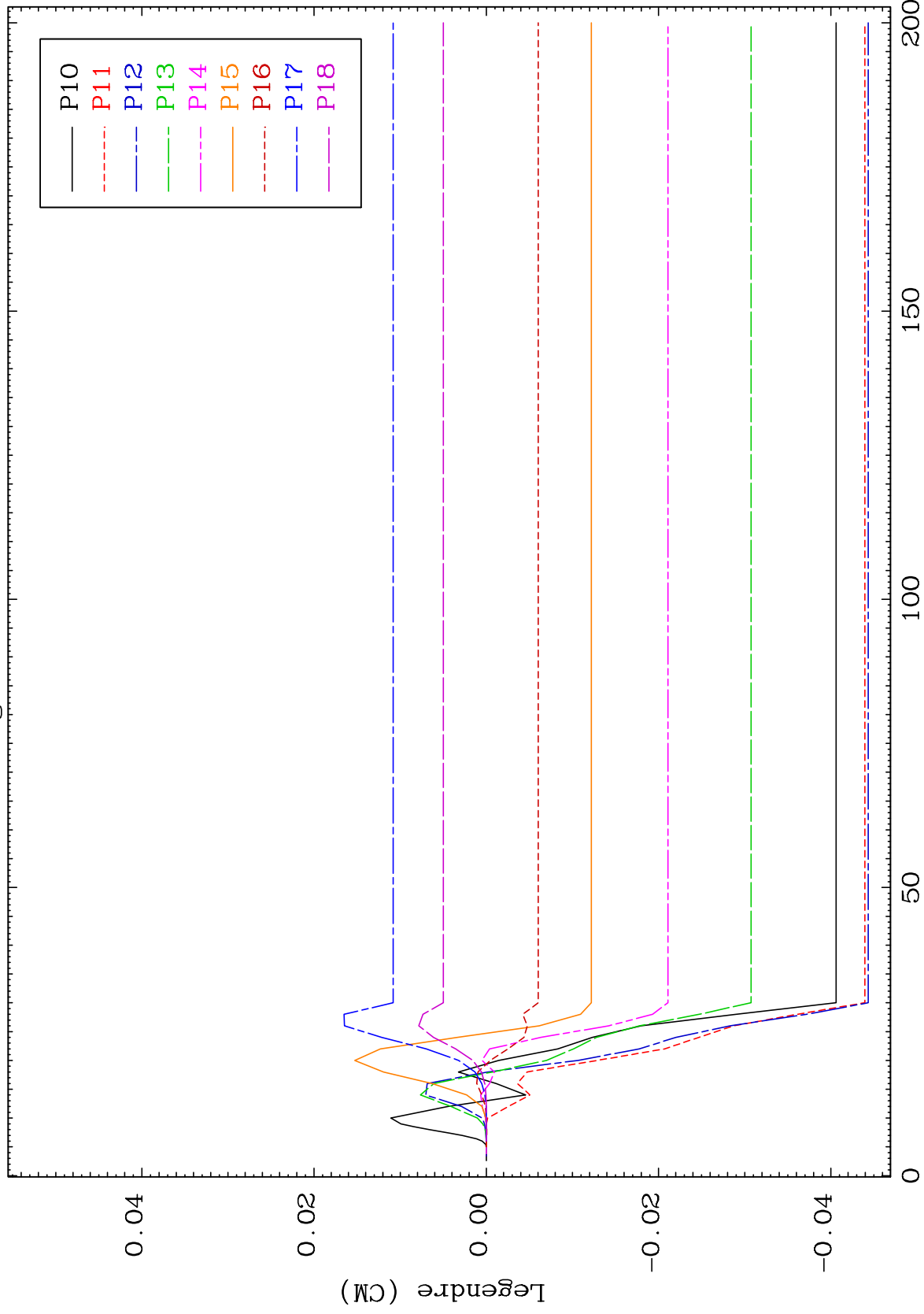
Incident Energy (MeV)

50

MAT 6413

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

64-Gd-148



51

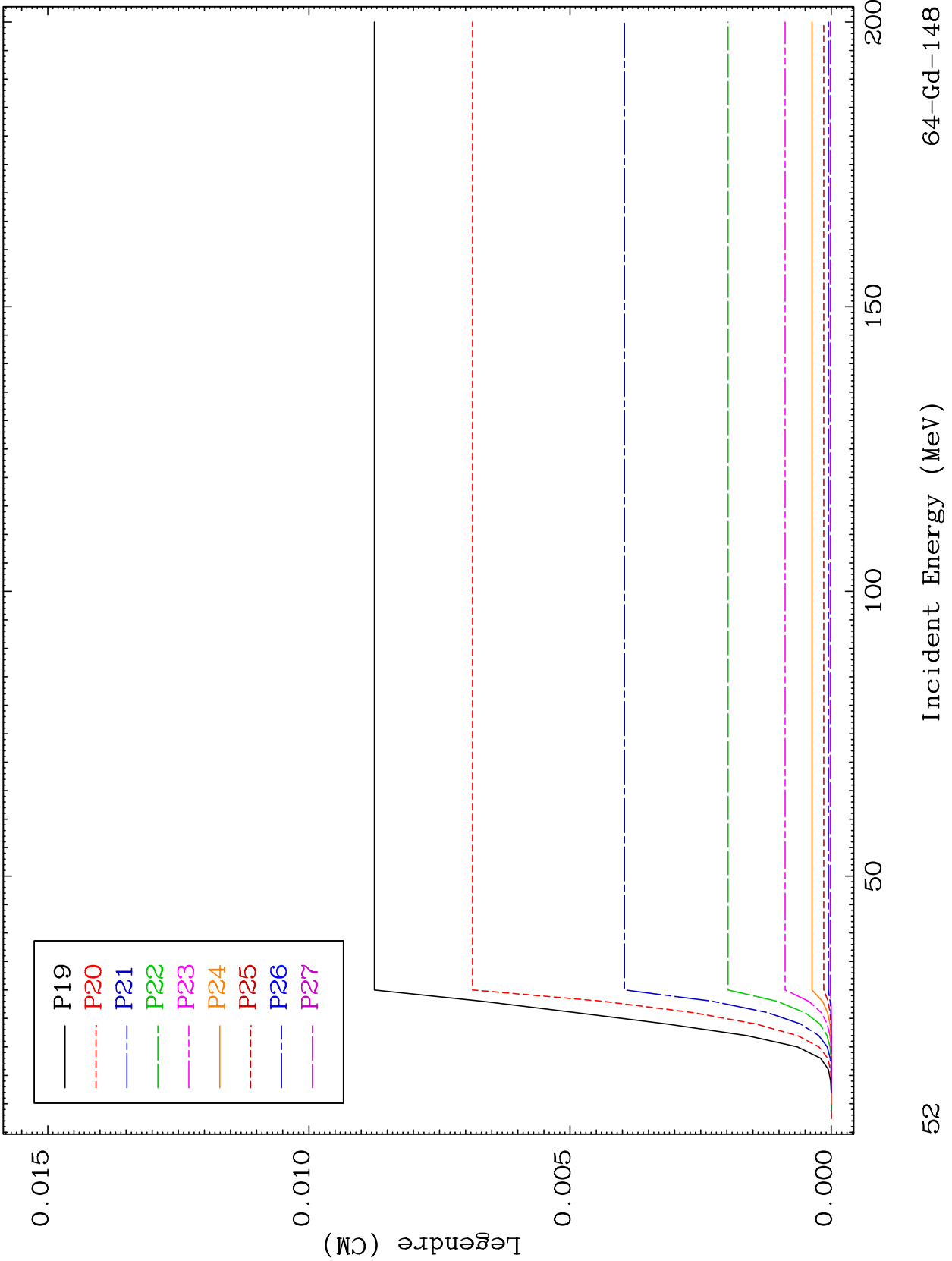
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



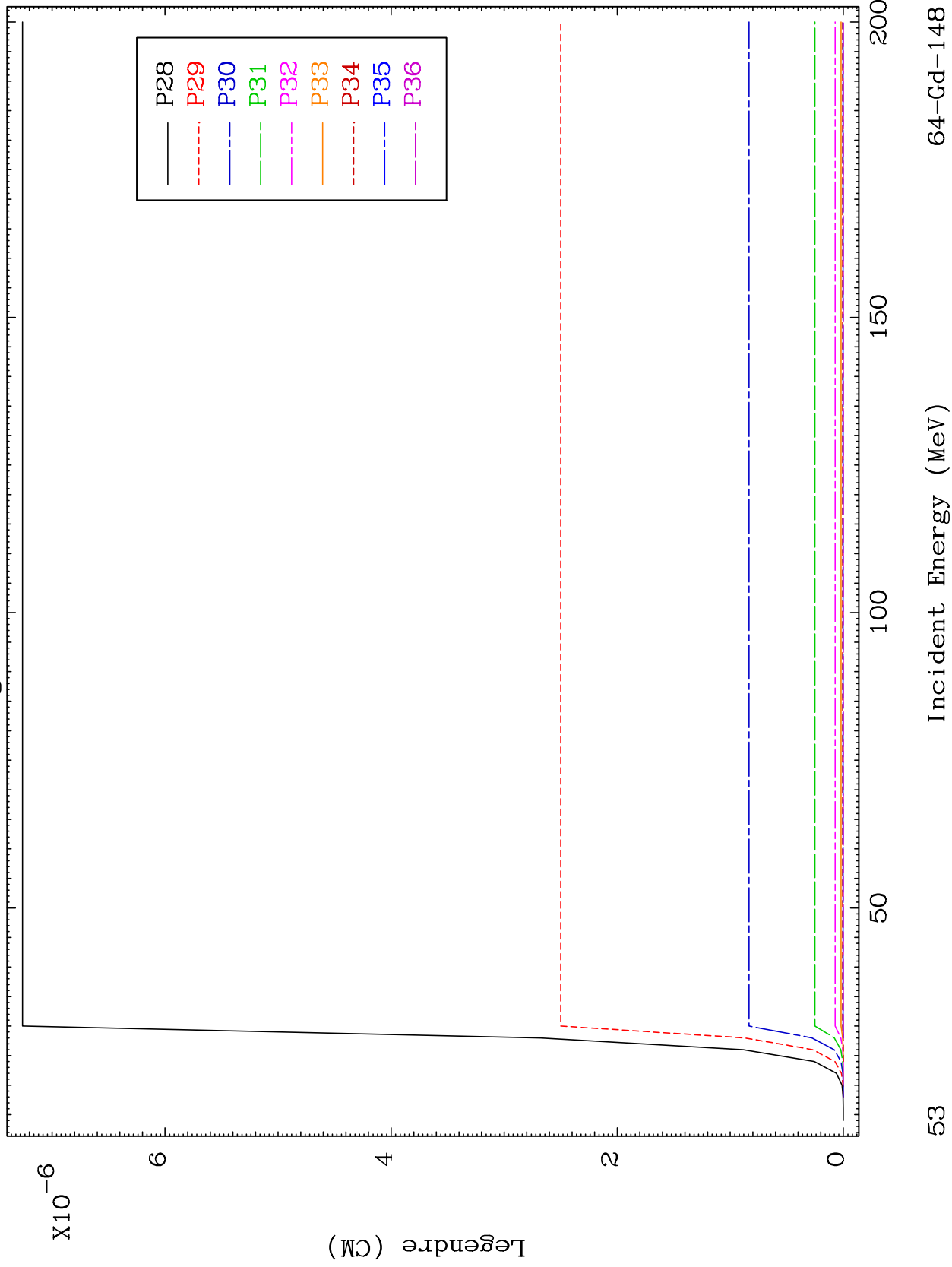
52

64-Gd-148

MAT 6413

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

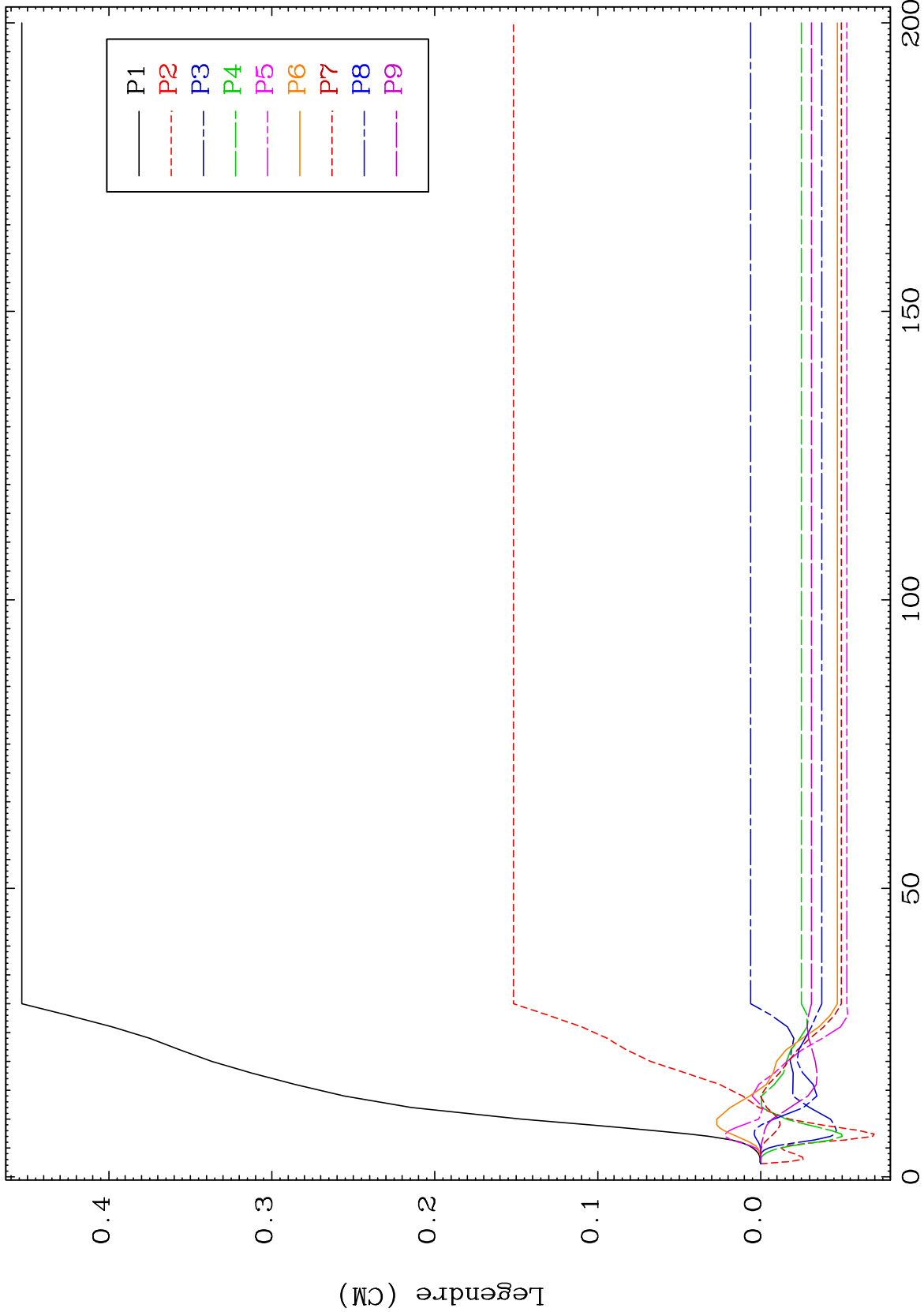
64-Gd-148



MAT 6413

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

64-Gd-148



54

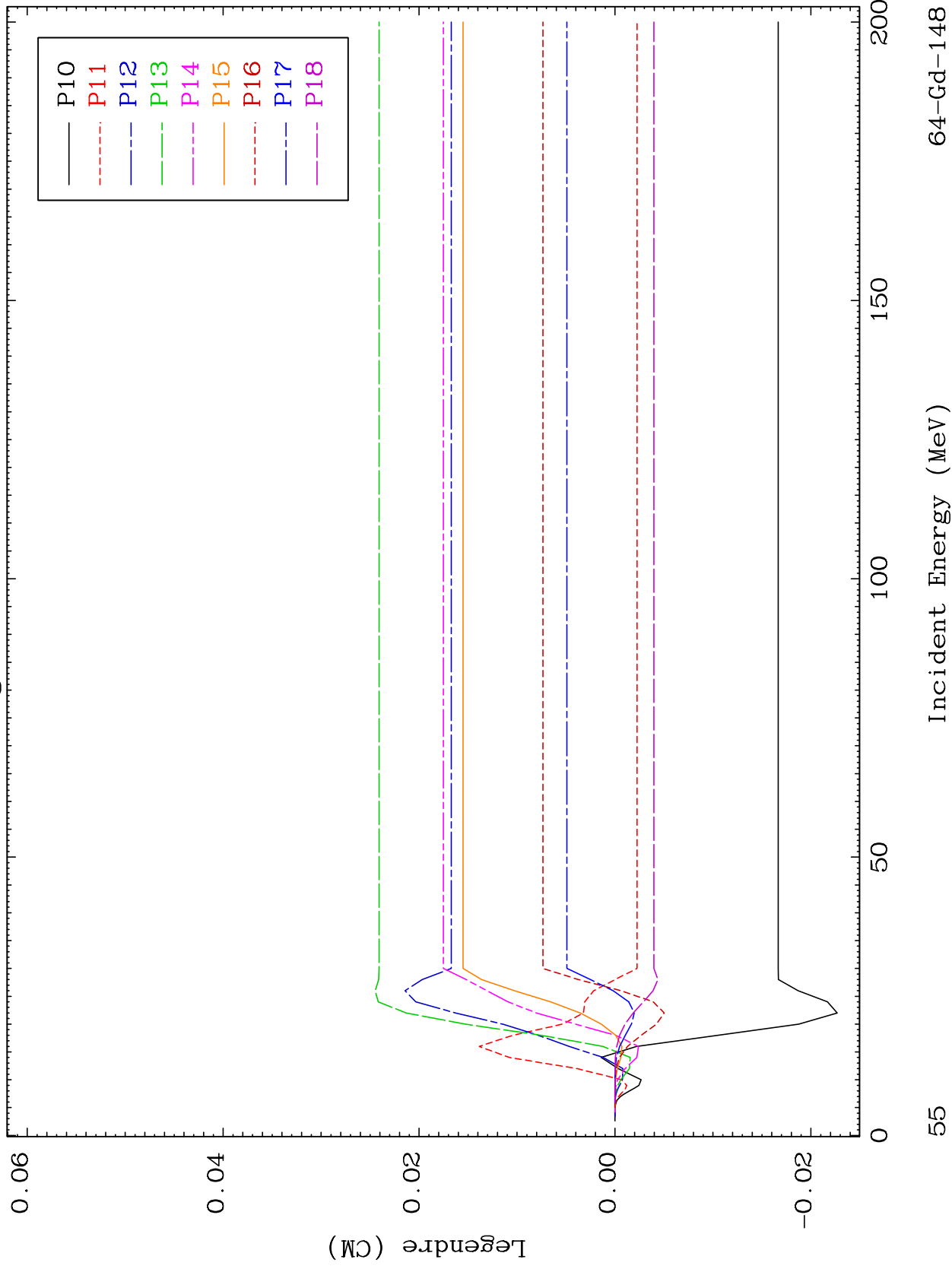
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



64-Gd-148

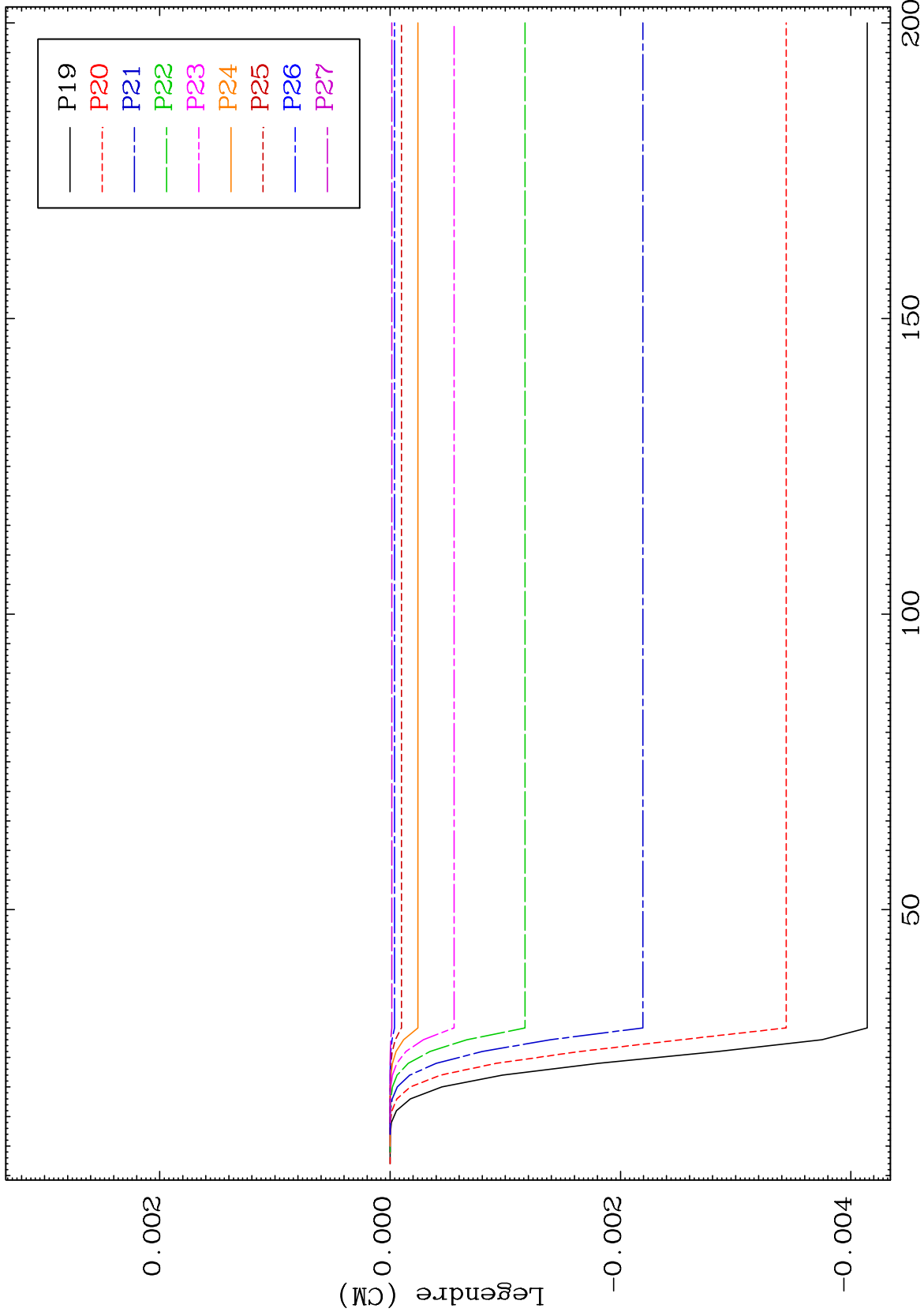
Incident Energy (MeV)

55

MAT 6413

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

64-Gd-148



56

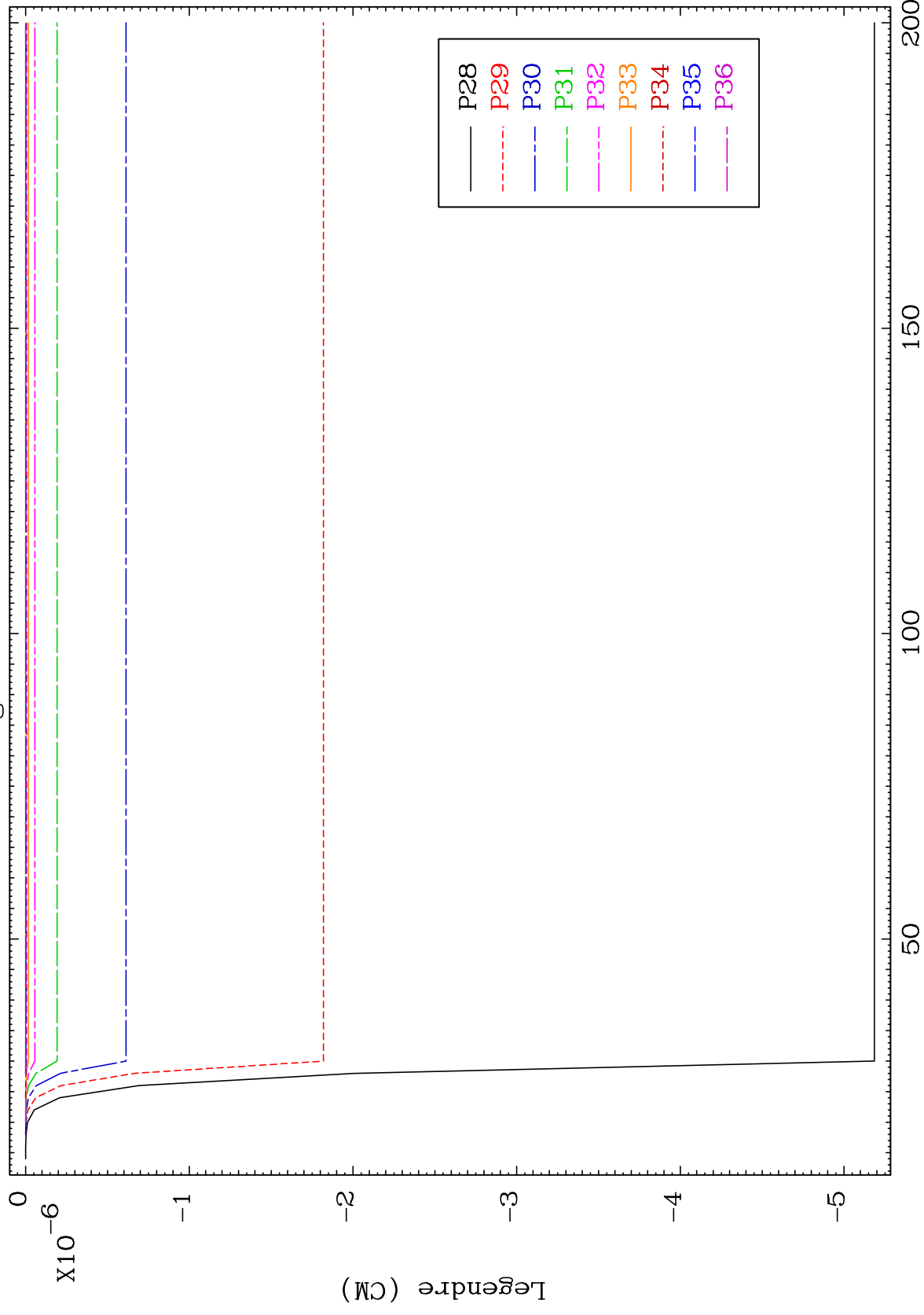
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



57

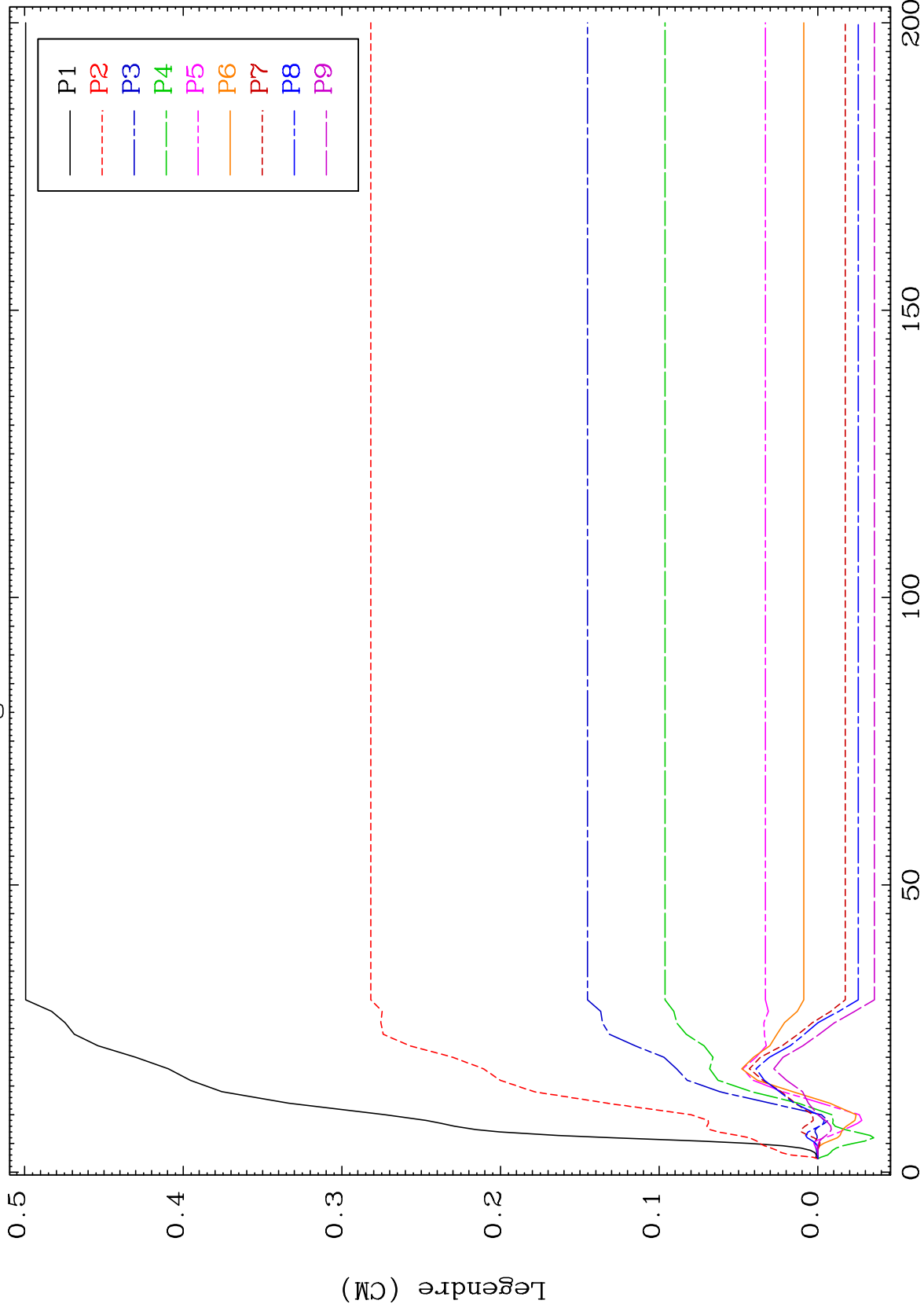
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



58

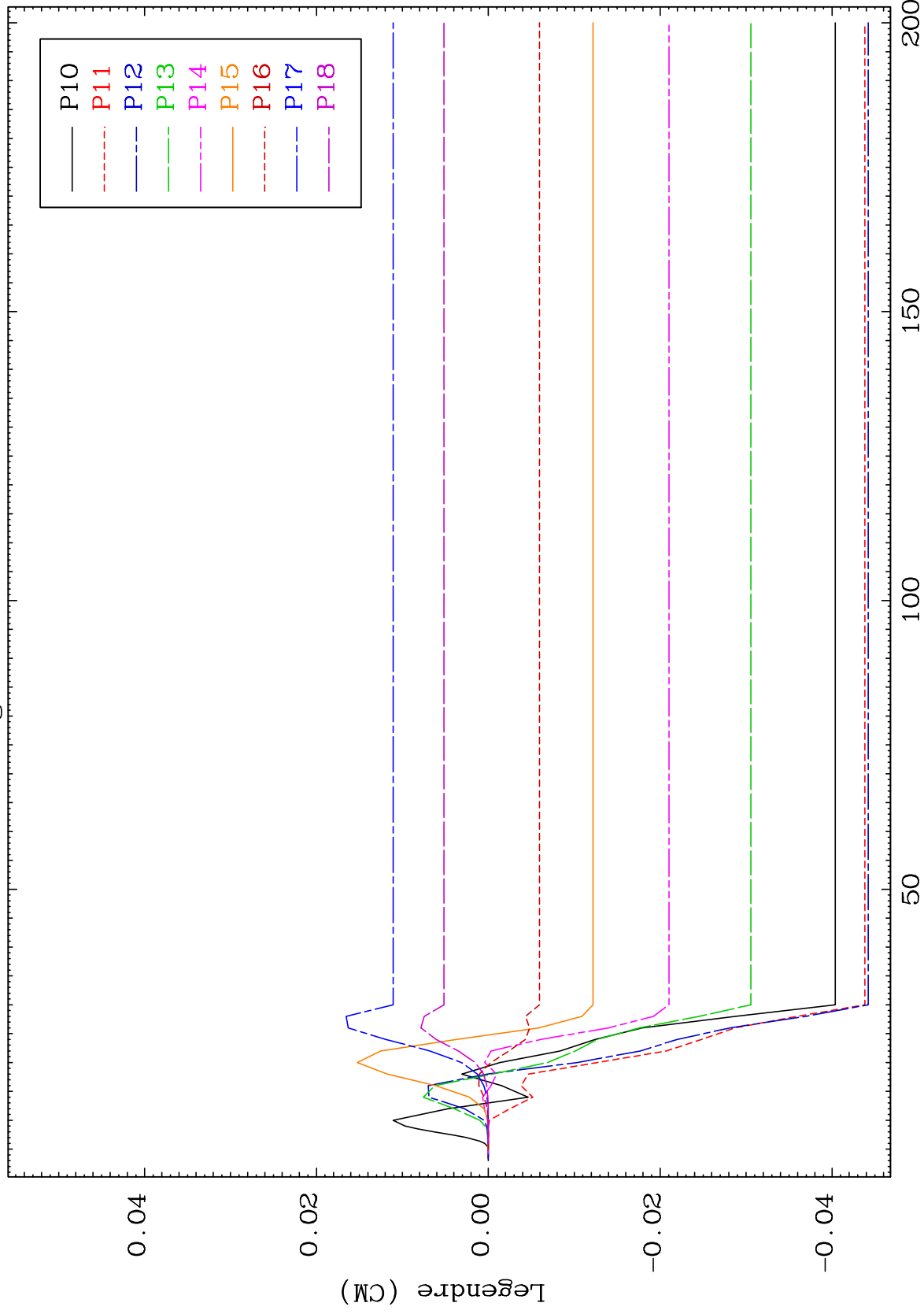
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



59

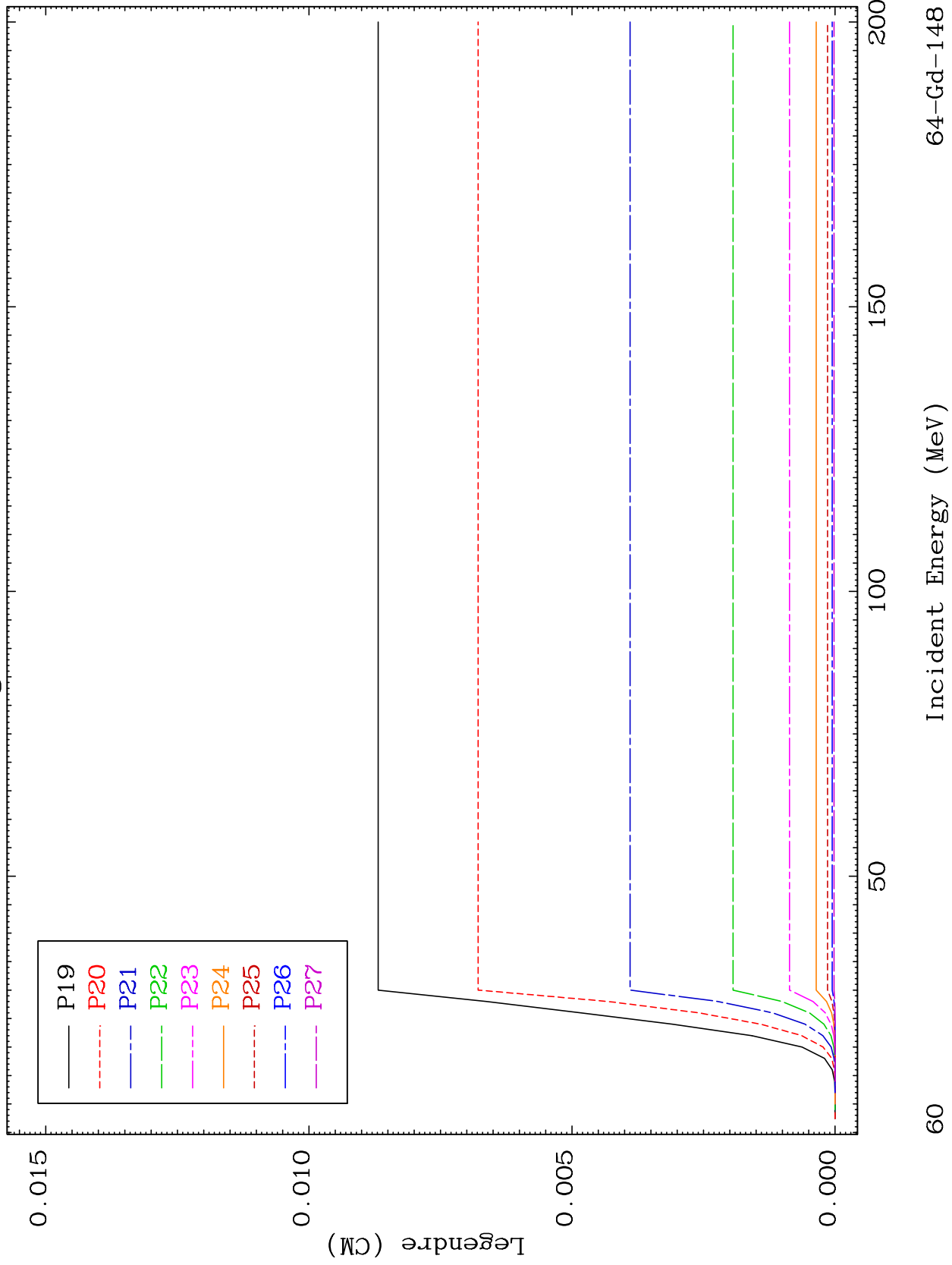
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



60

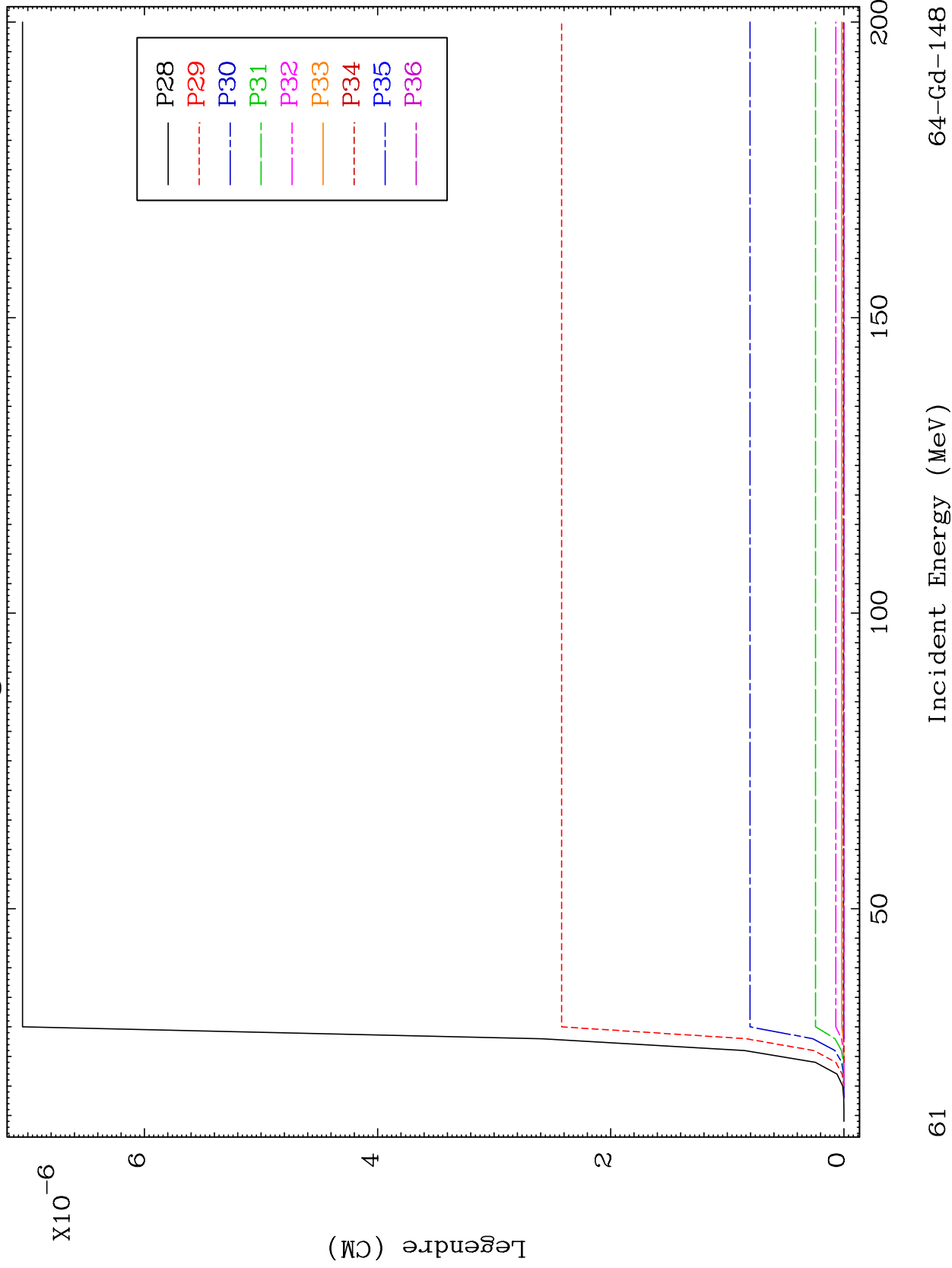
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



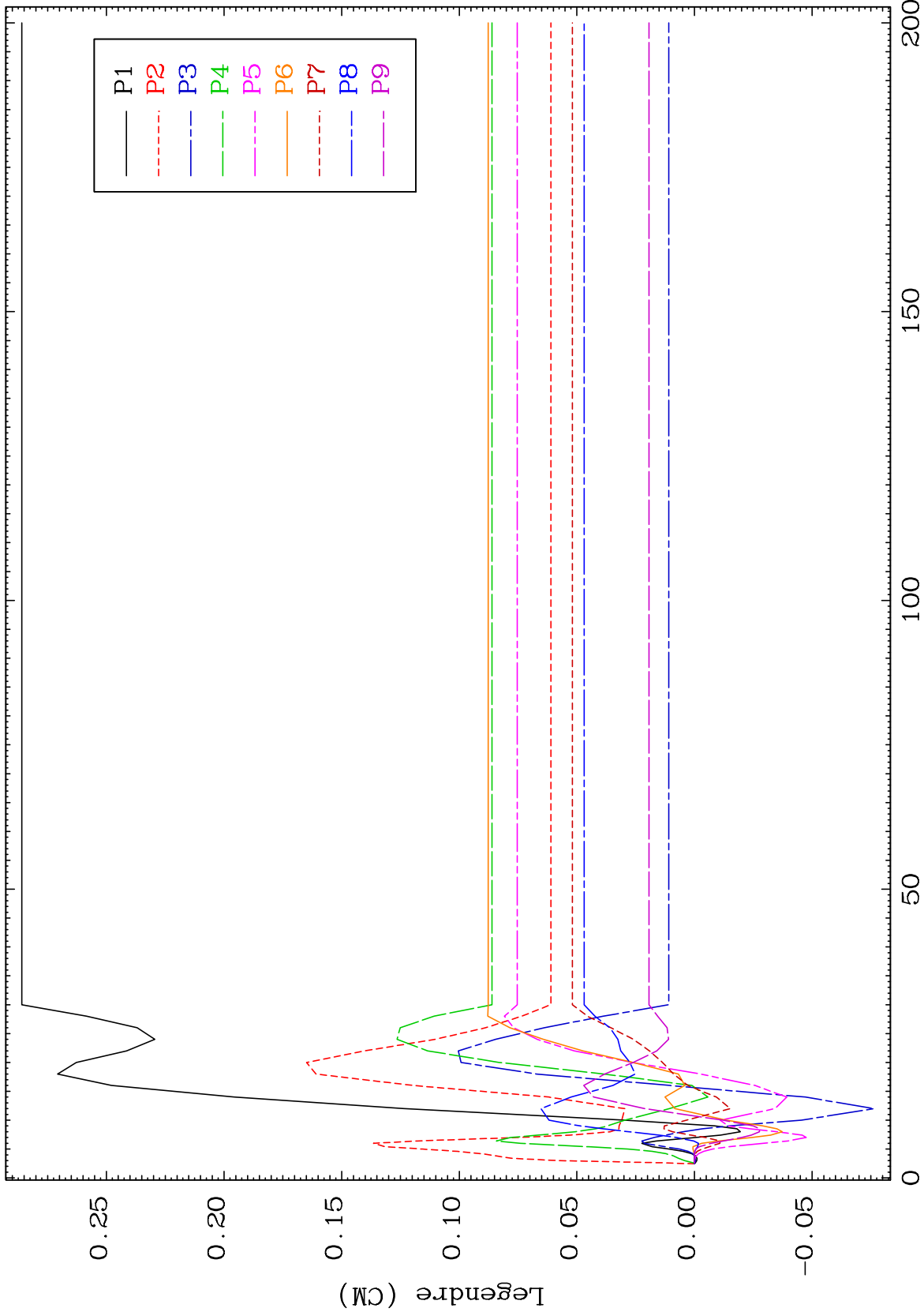
61

64-Gd-148

MAT 6413

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

64-Gd-148



62

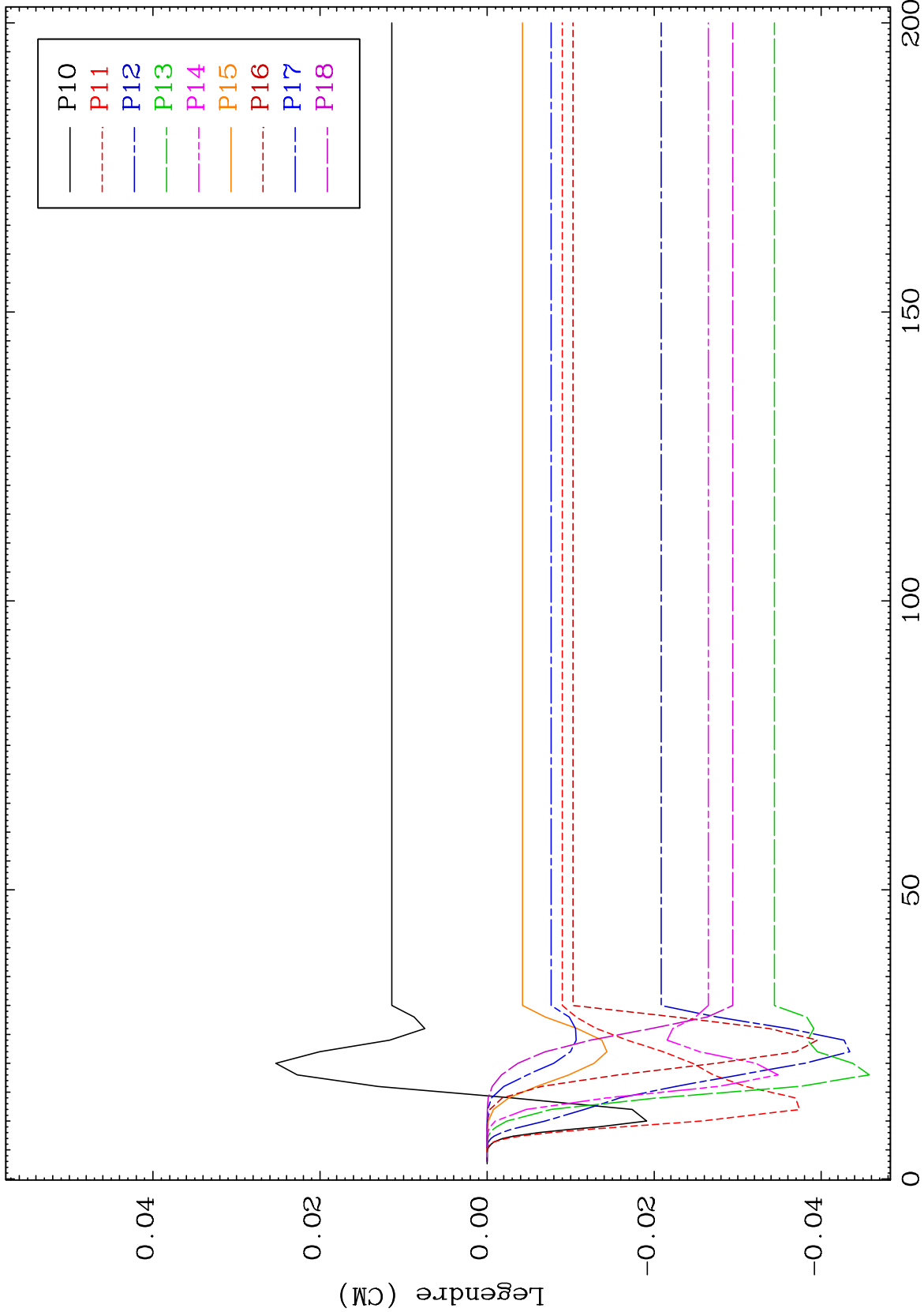
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



63

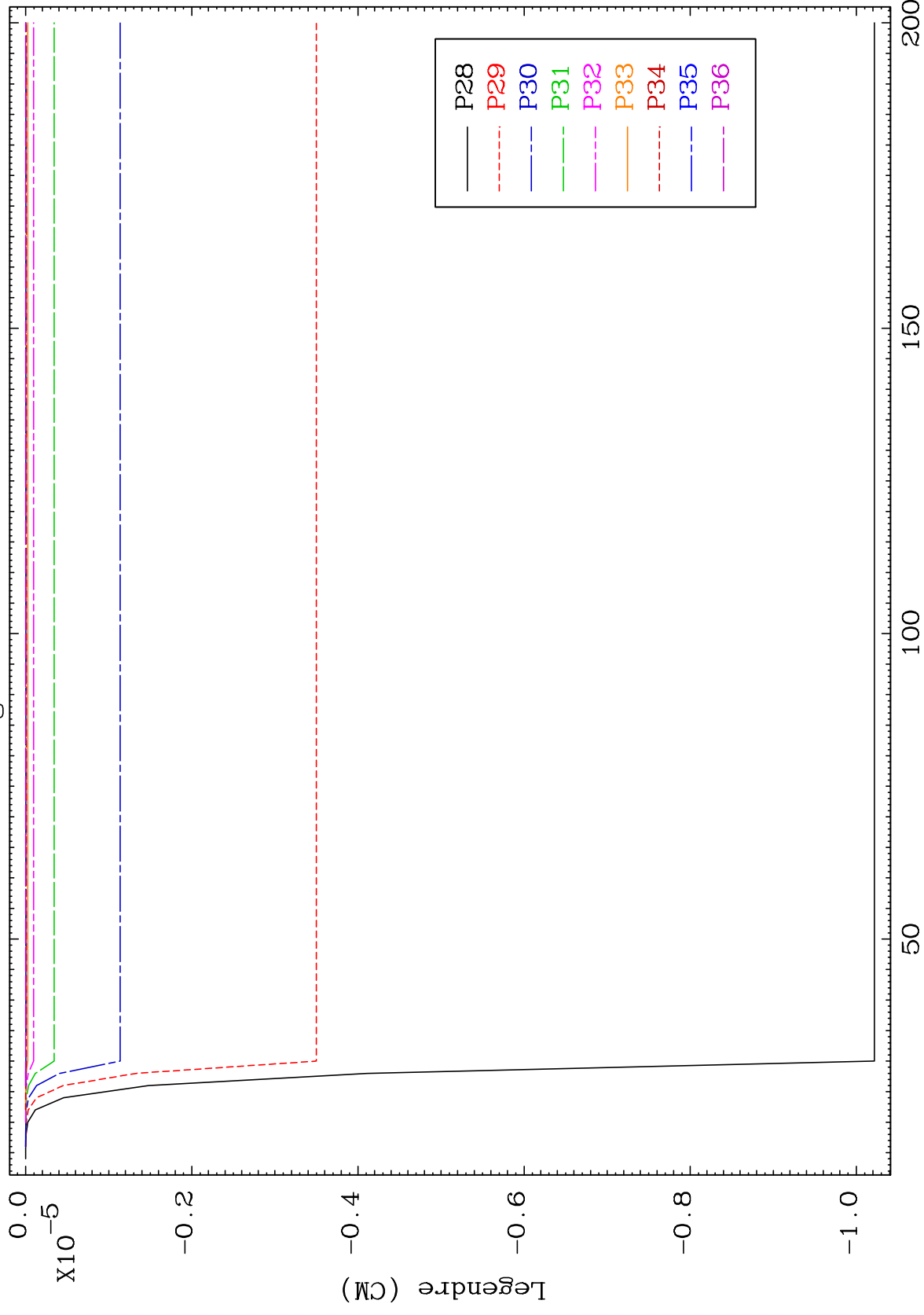
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



65

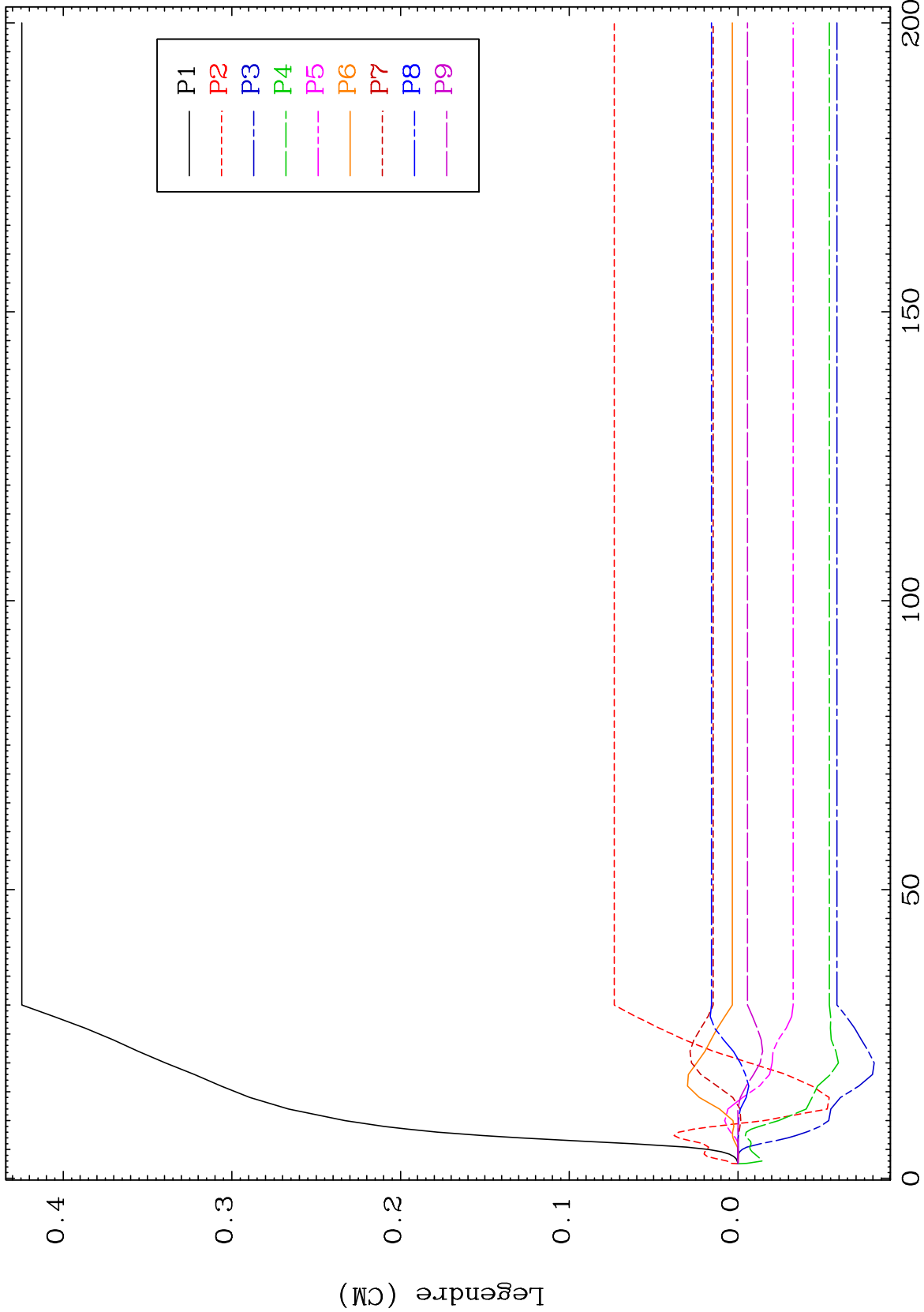
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

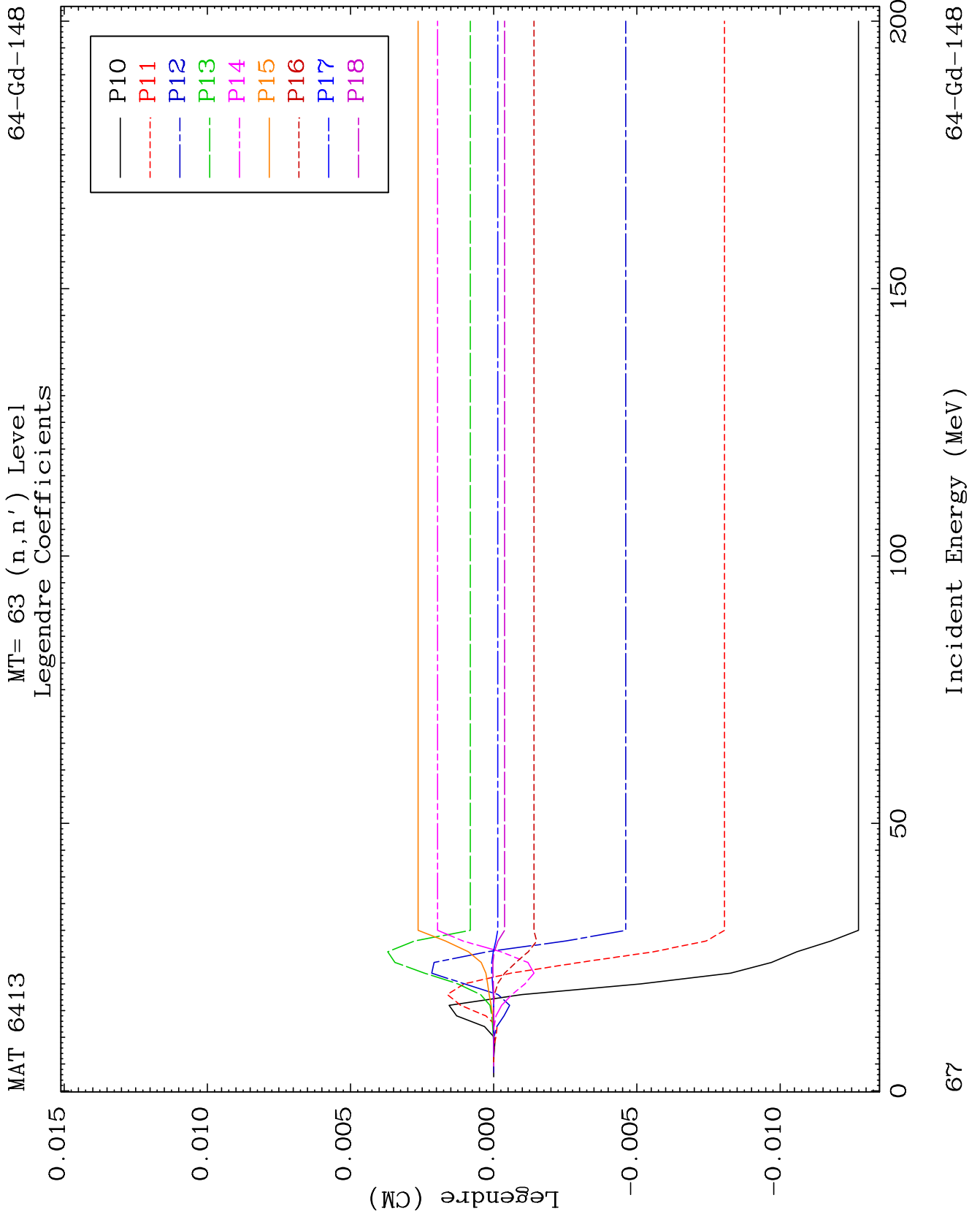
64-Gd-148



66

Incident Energy (MeV)

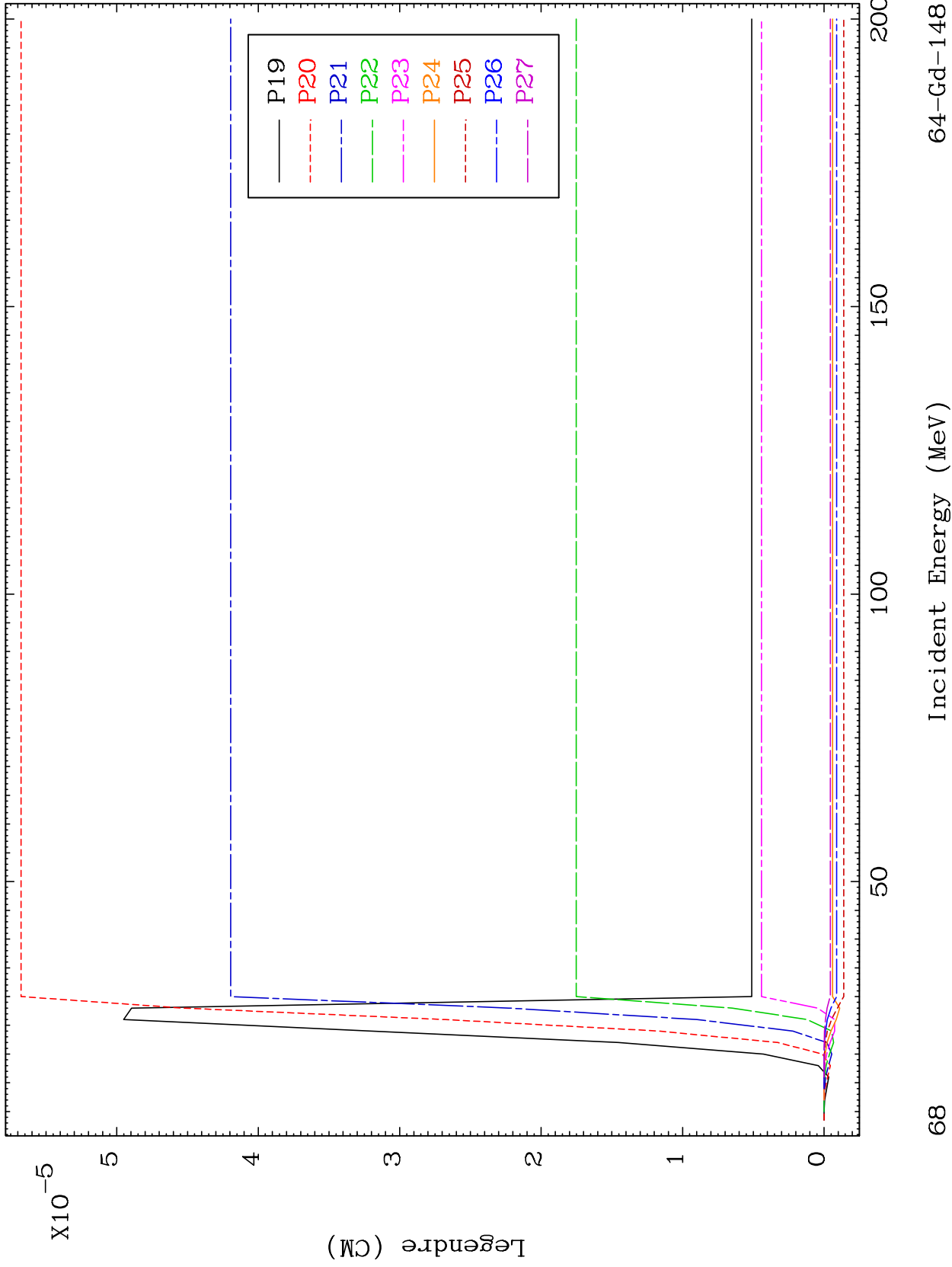
64-Gd-148



MAT 6413

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

64-Gd-148

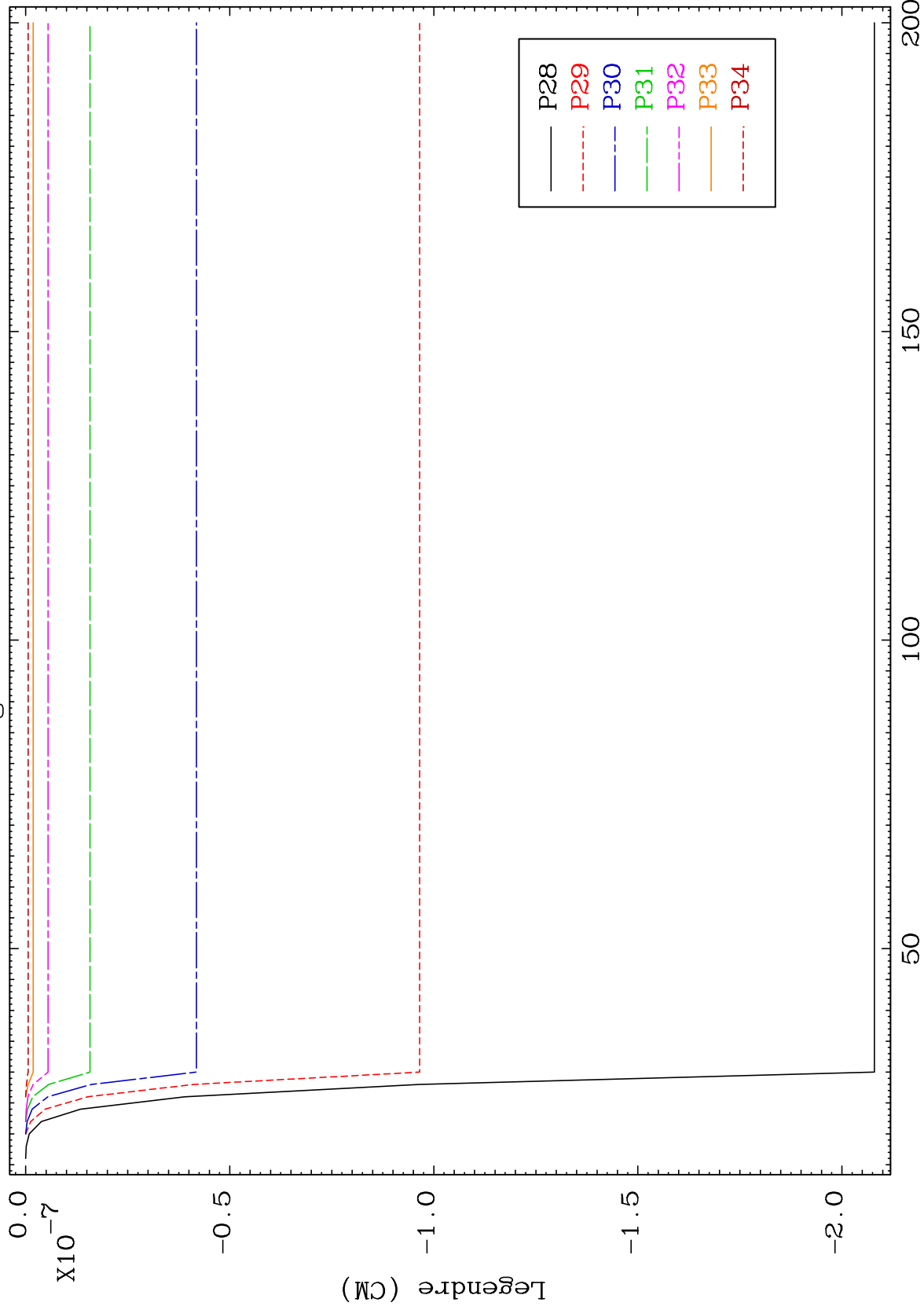


MAT 6413

MT= 63 (n,n') Level

64-Gd-148

Legendre Coefficients



69

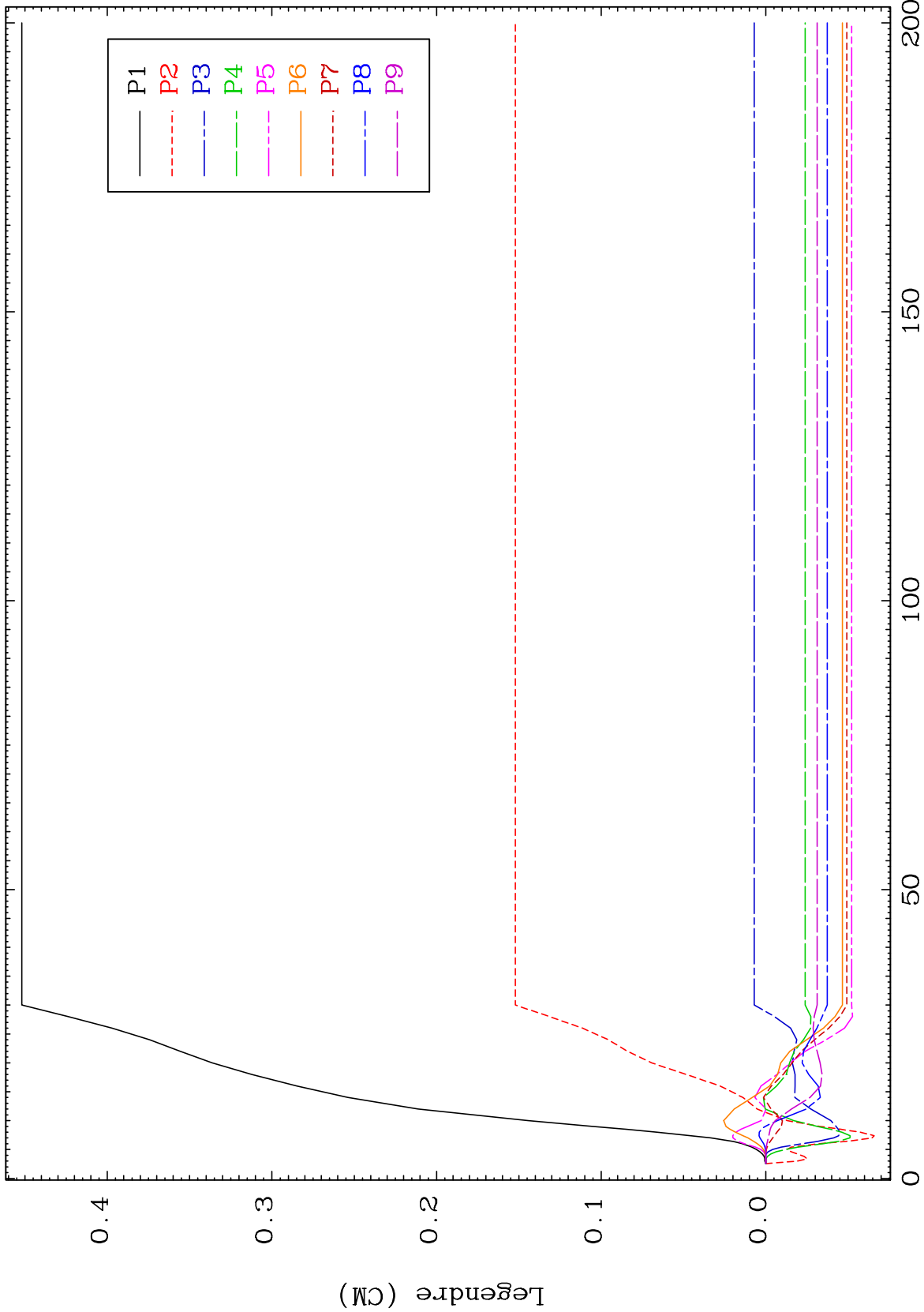
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



64-Gd-148

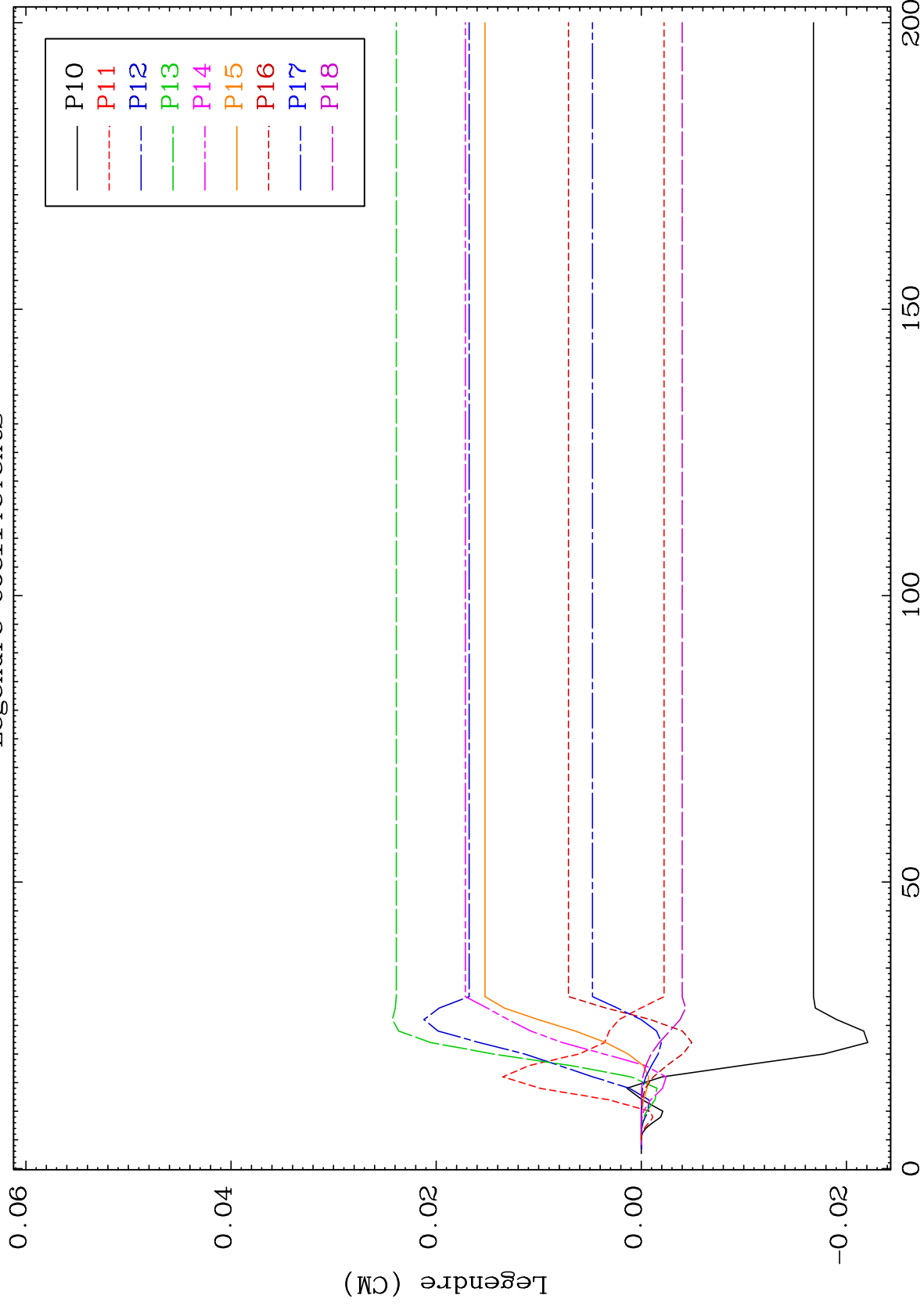
Incident Energy (MeV)

70

MAT 6413

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

64-Gd-148



71

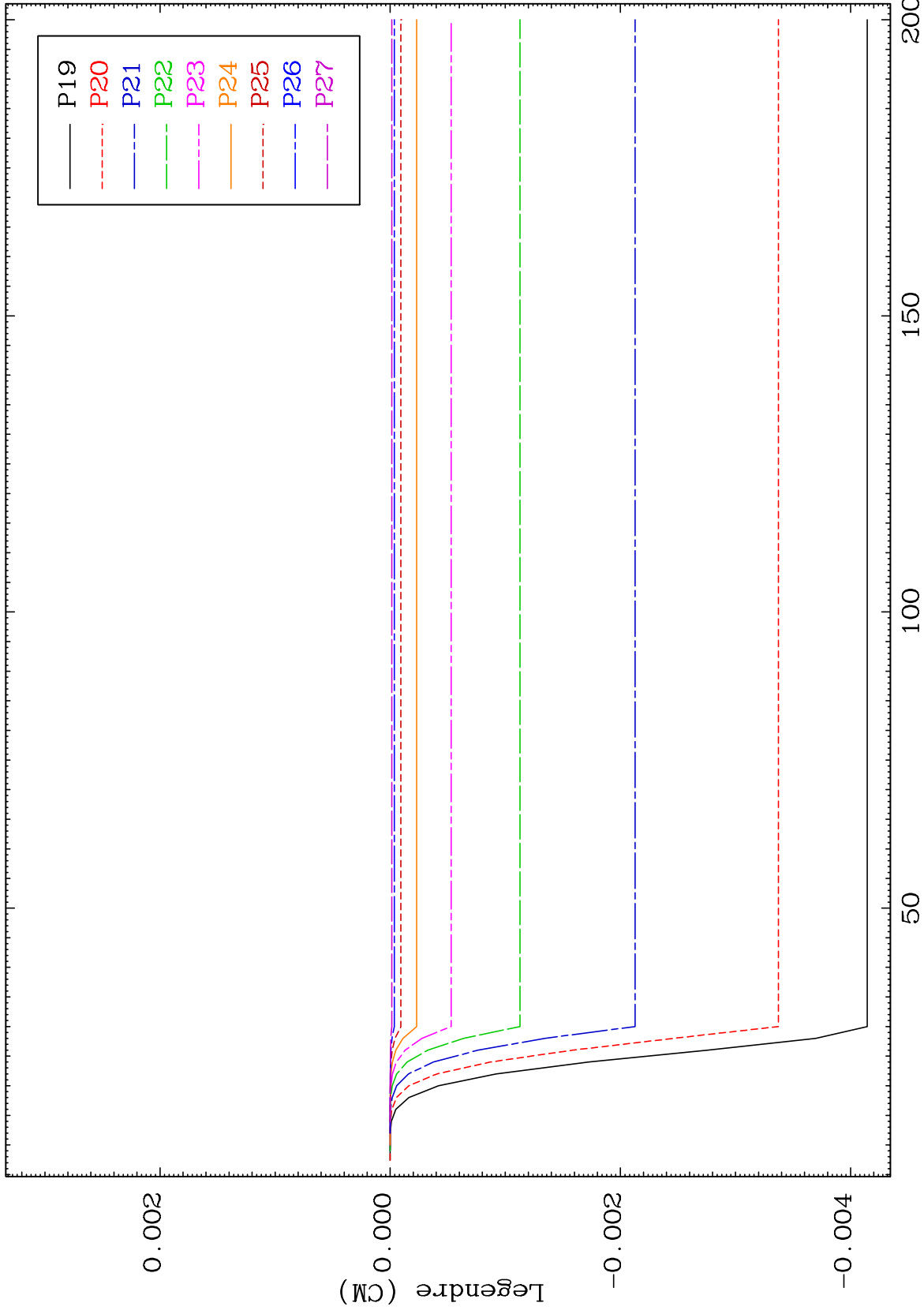
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



72

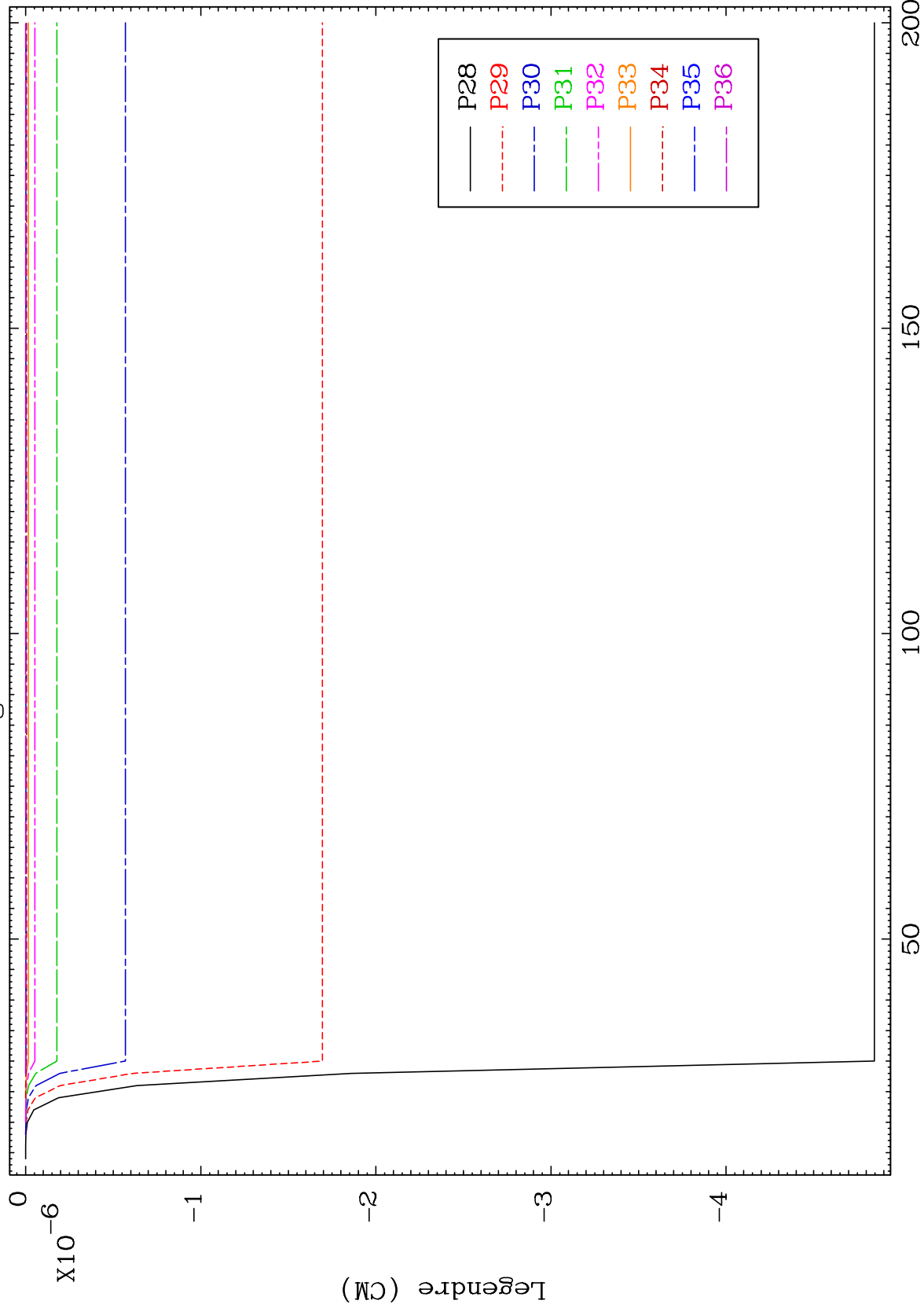
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



73

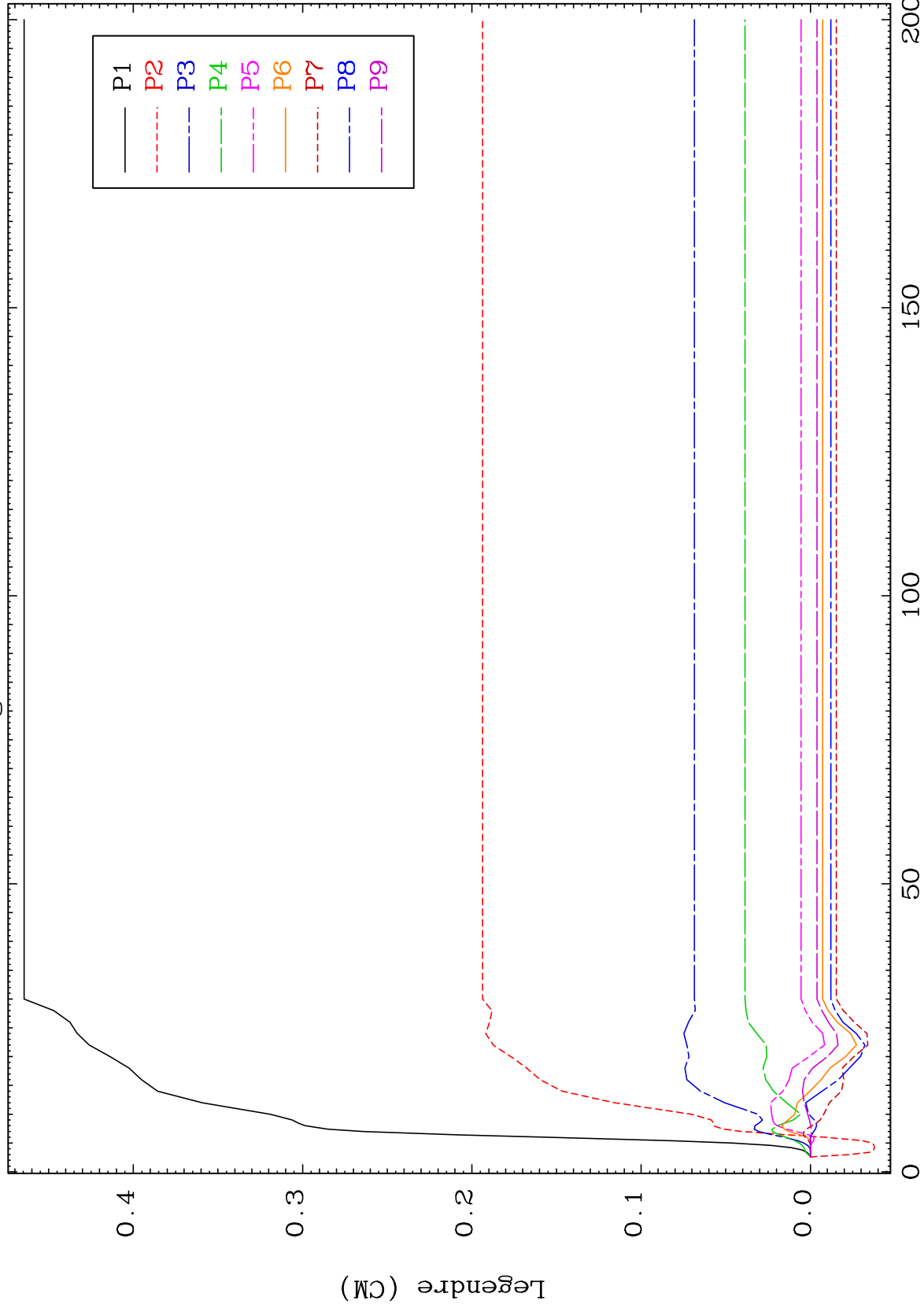
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

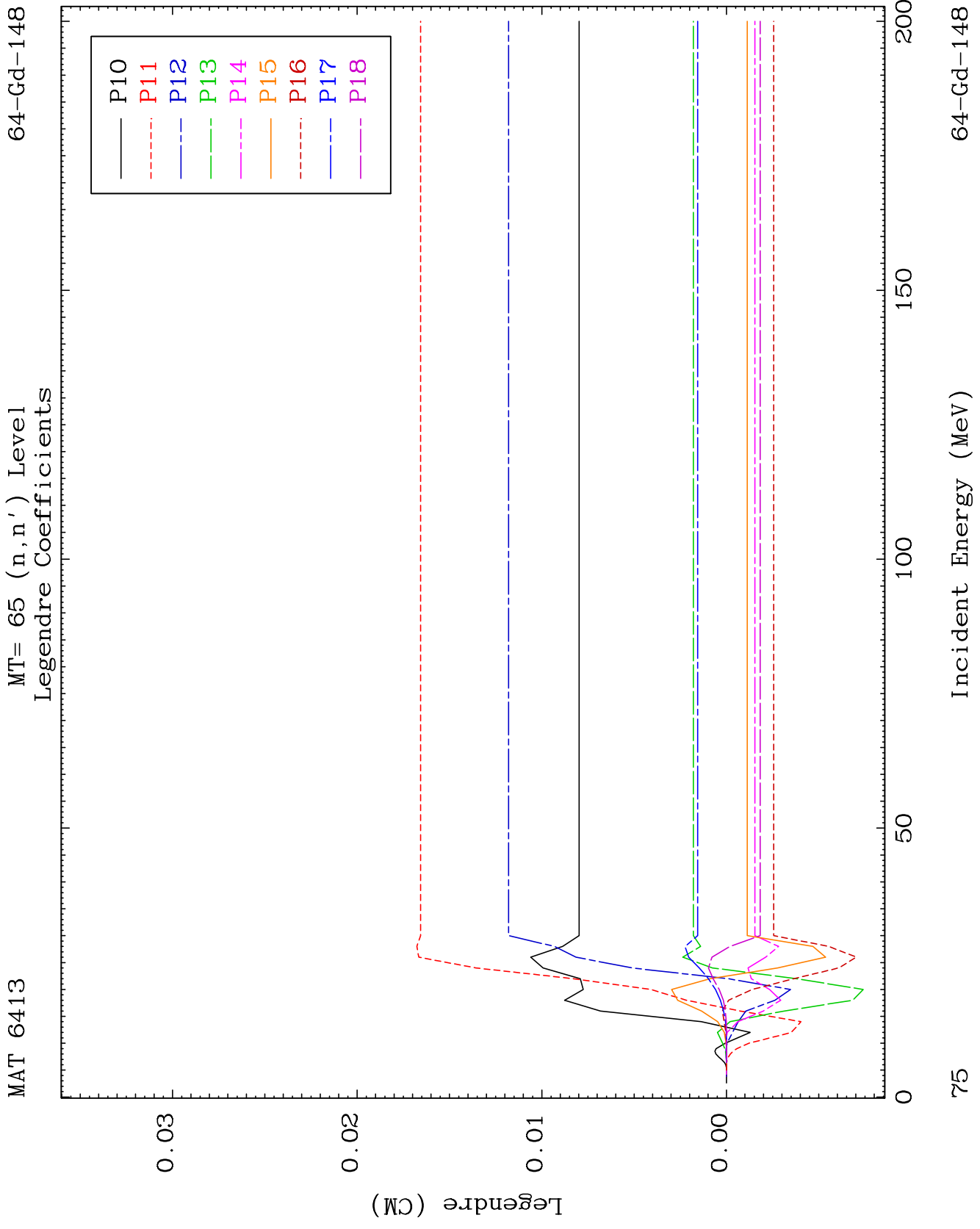
64-Gd-148



74

Incident Energy (MeV)

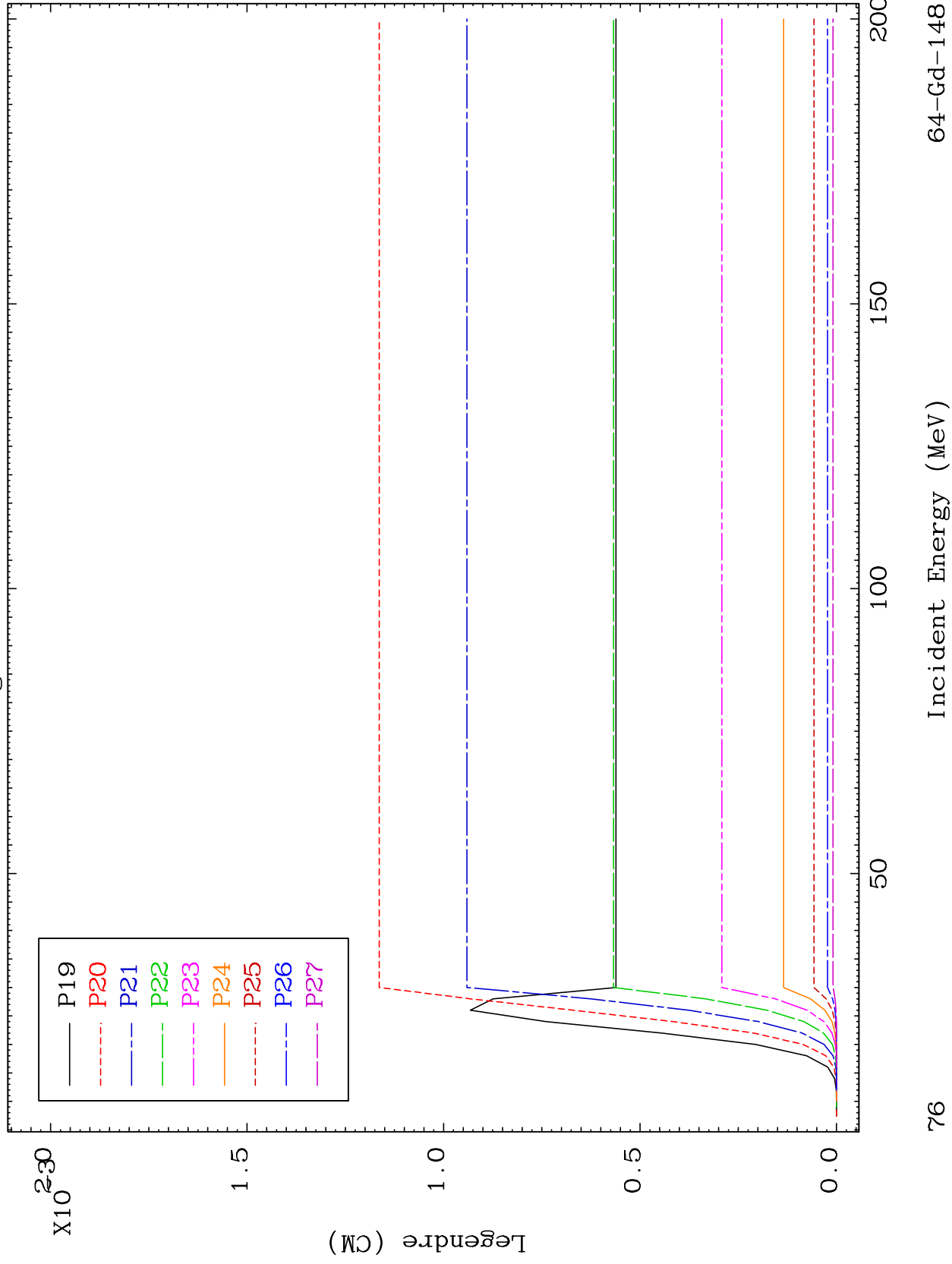
64-Gd-148



MAT 6413

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

64-Gd-148



76

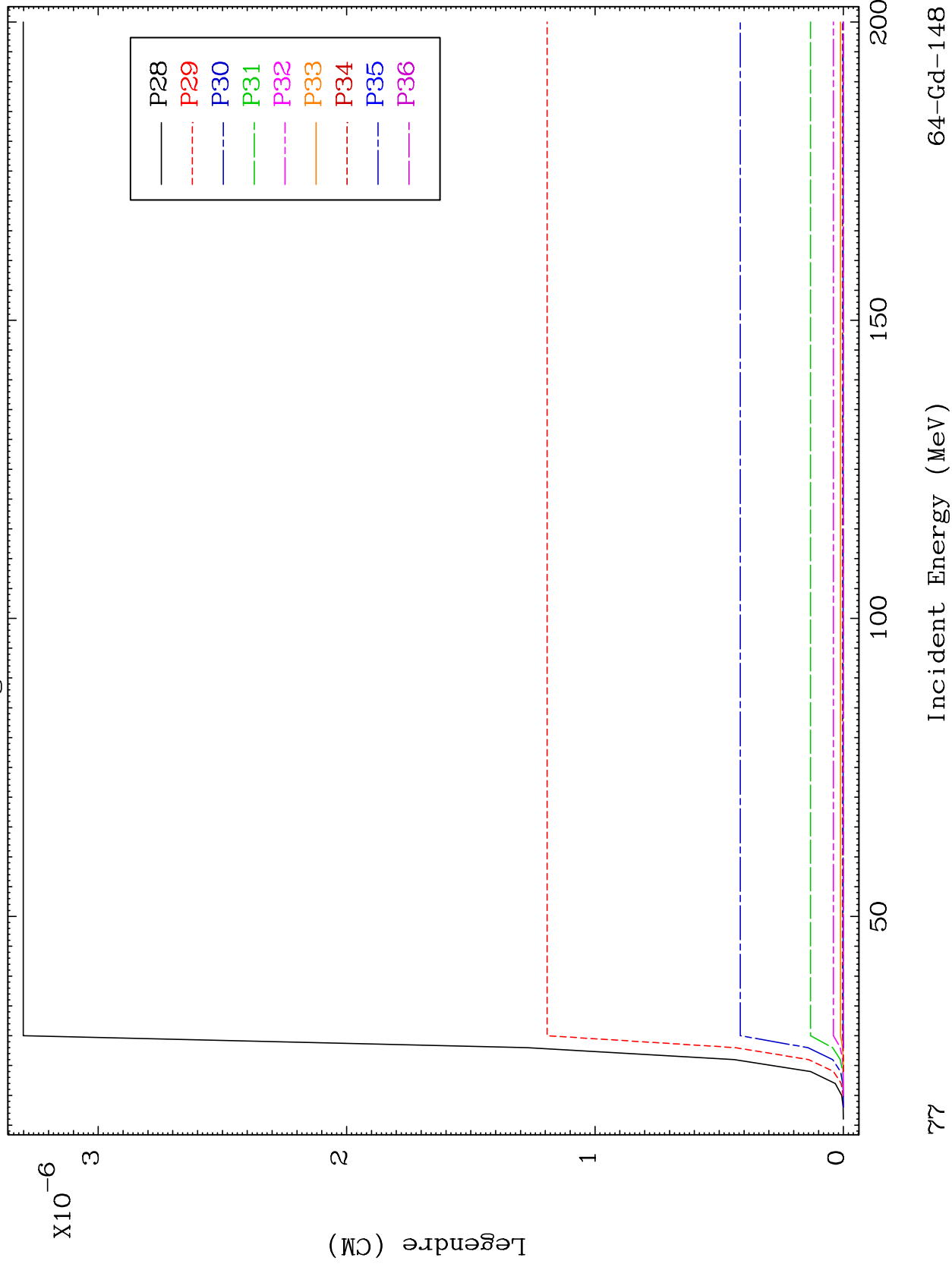
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

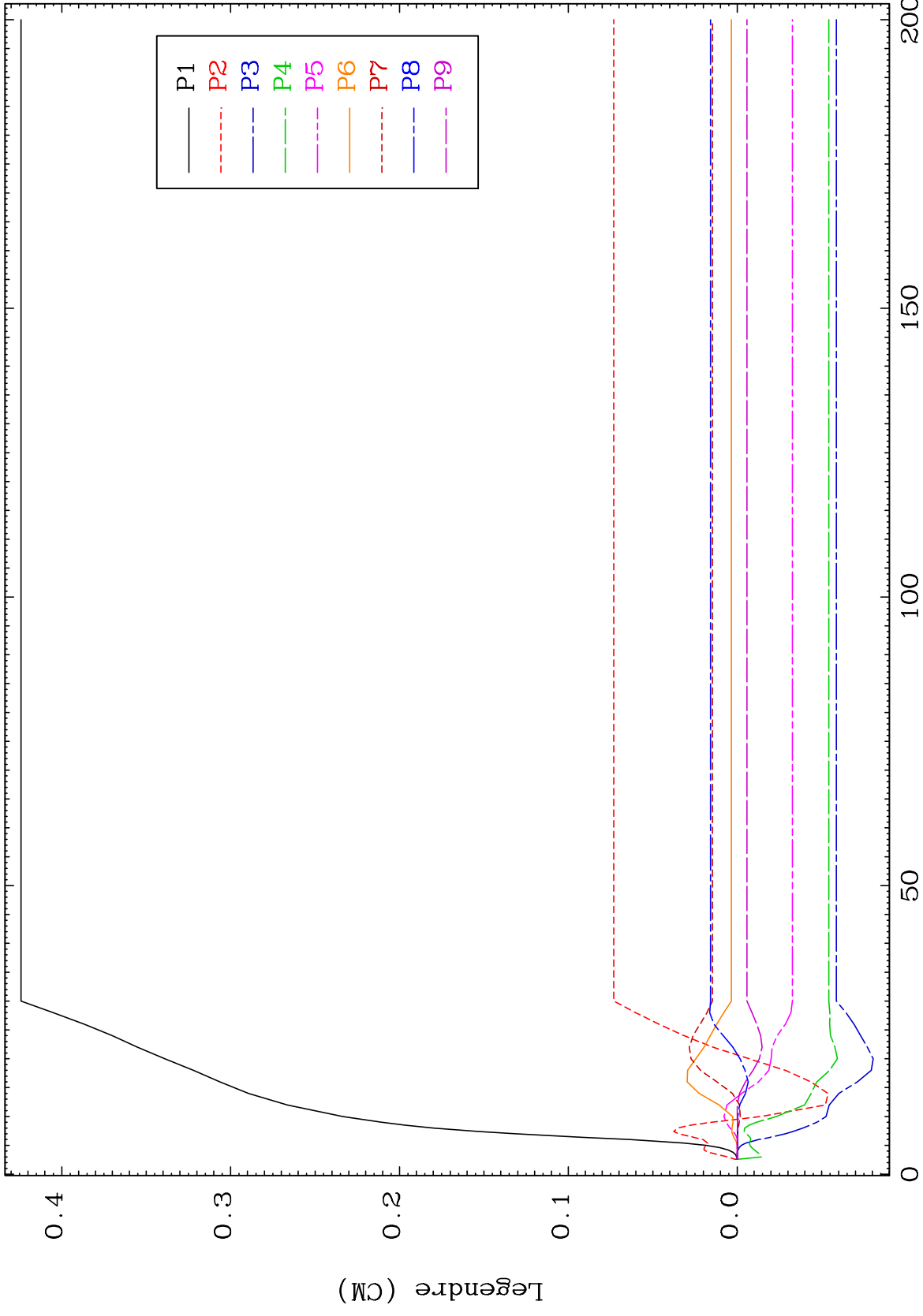
64-Gd-148



MAT 6413

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

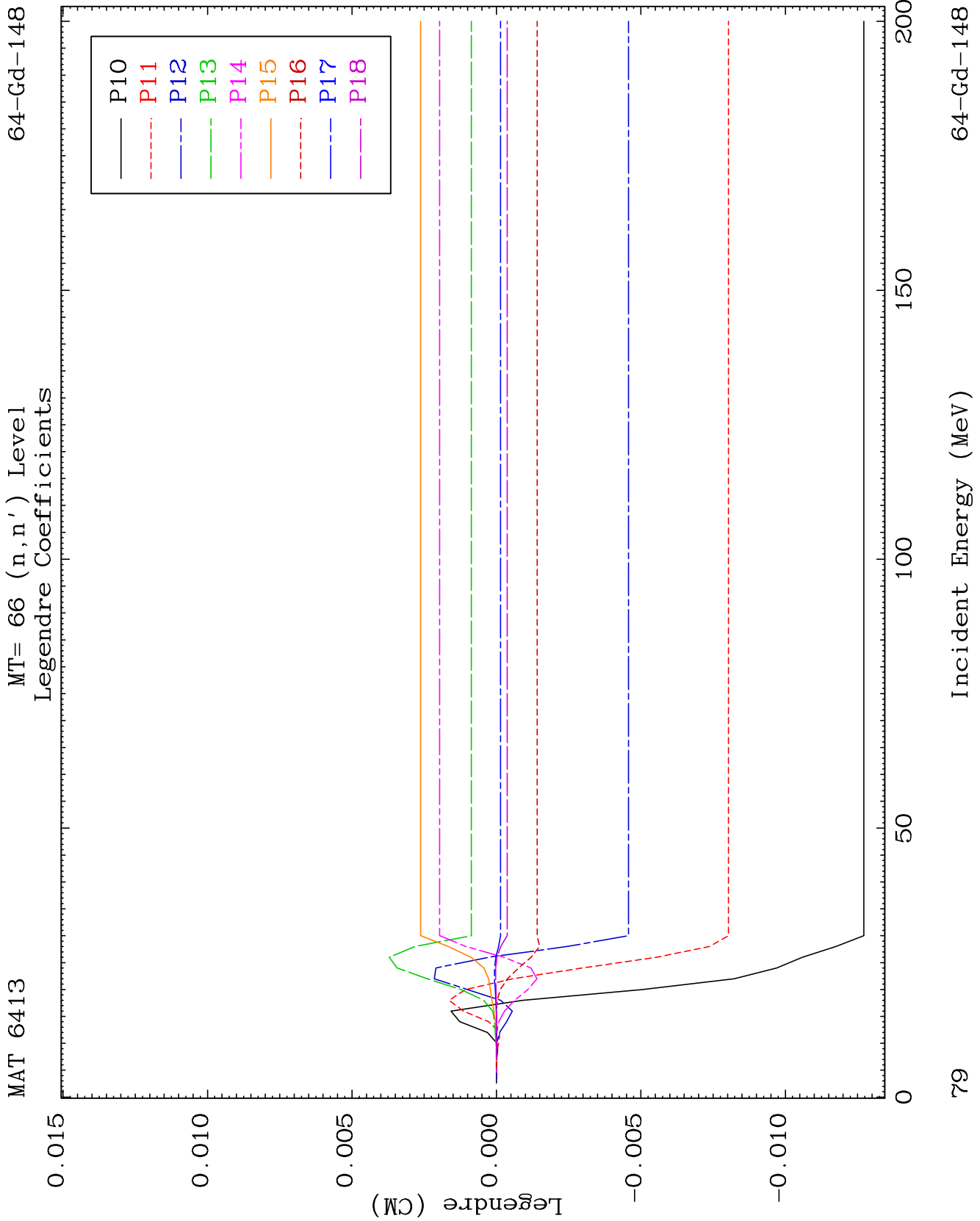
64-Gd-148



78

Incident Energy (MeV)

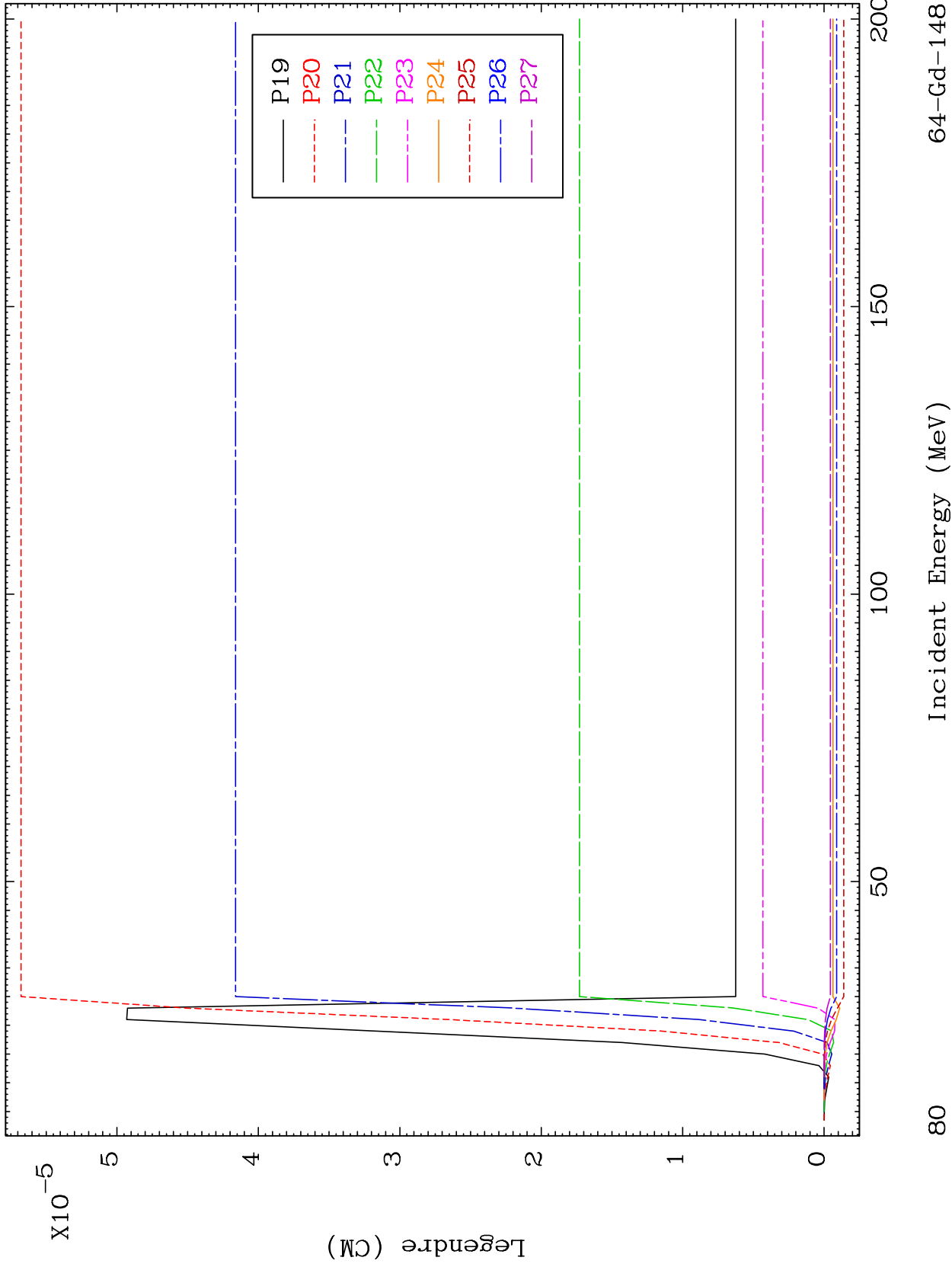
64-Gd-148



MAT 6413

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

64-Gd-148

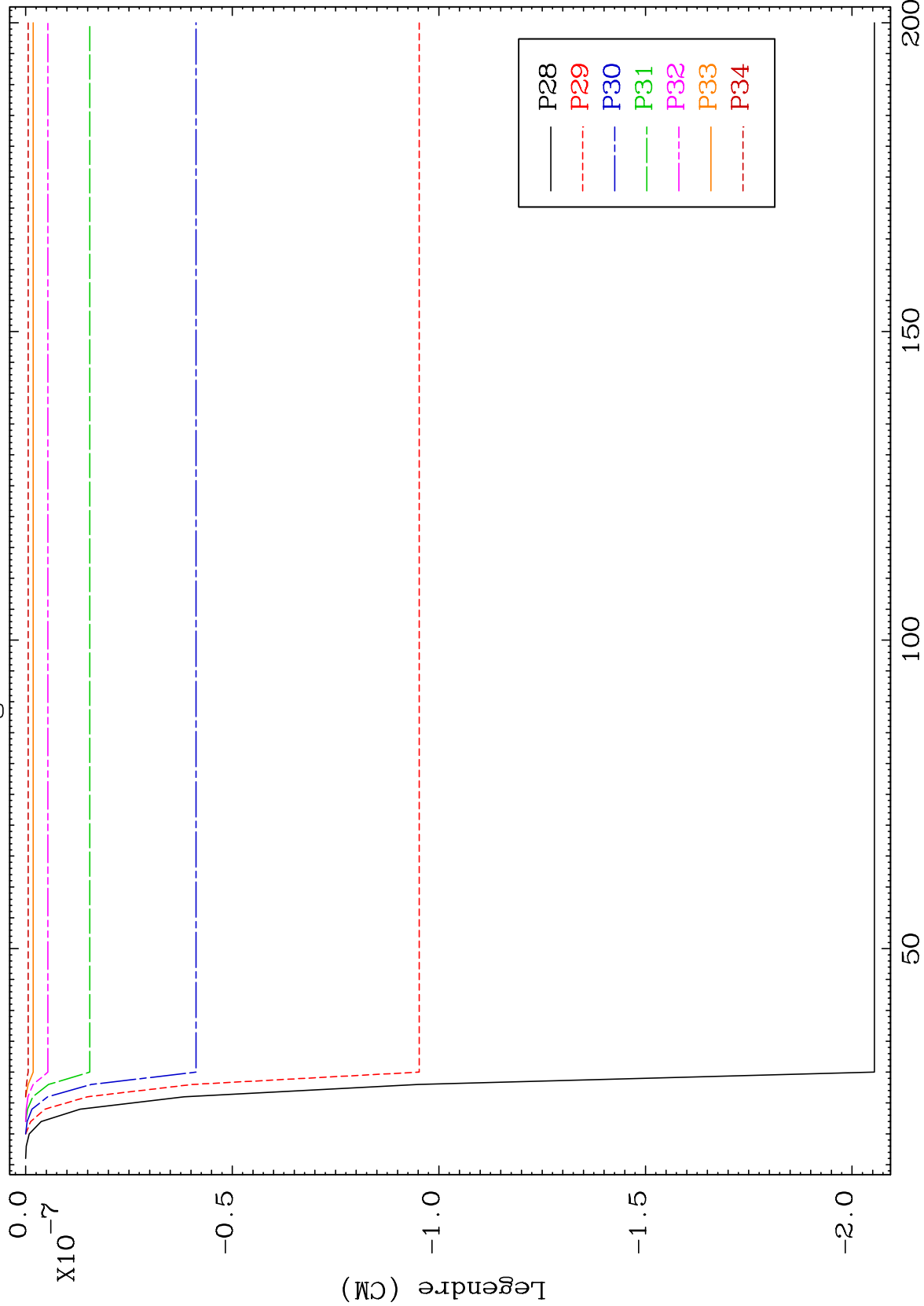


MAT 6413

MT= 66 (n,n') Level

64-Gd-148

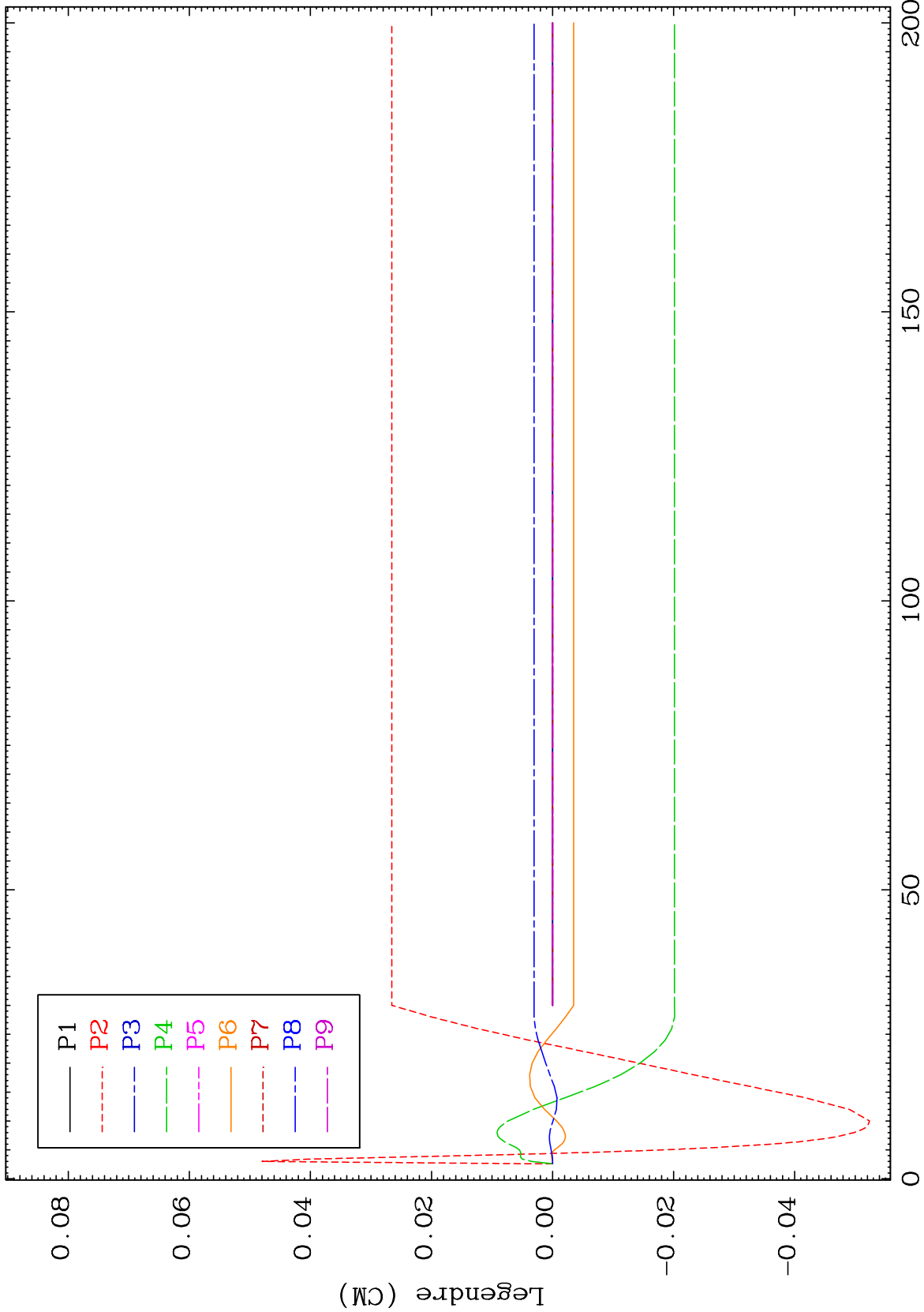
Legendre Coefficients



MAT 6413

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

64-Gd-148



82

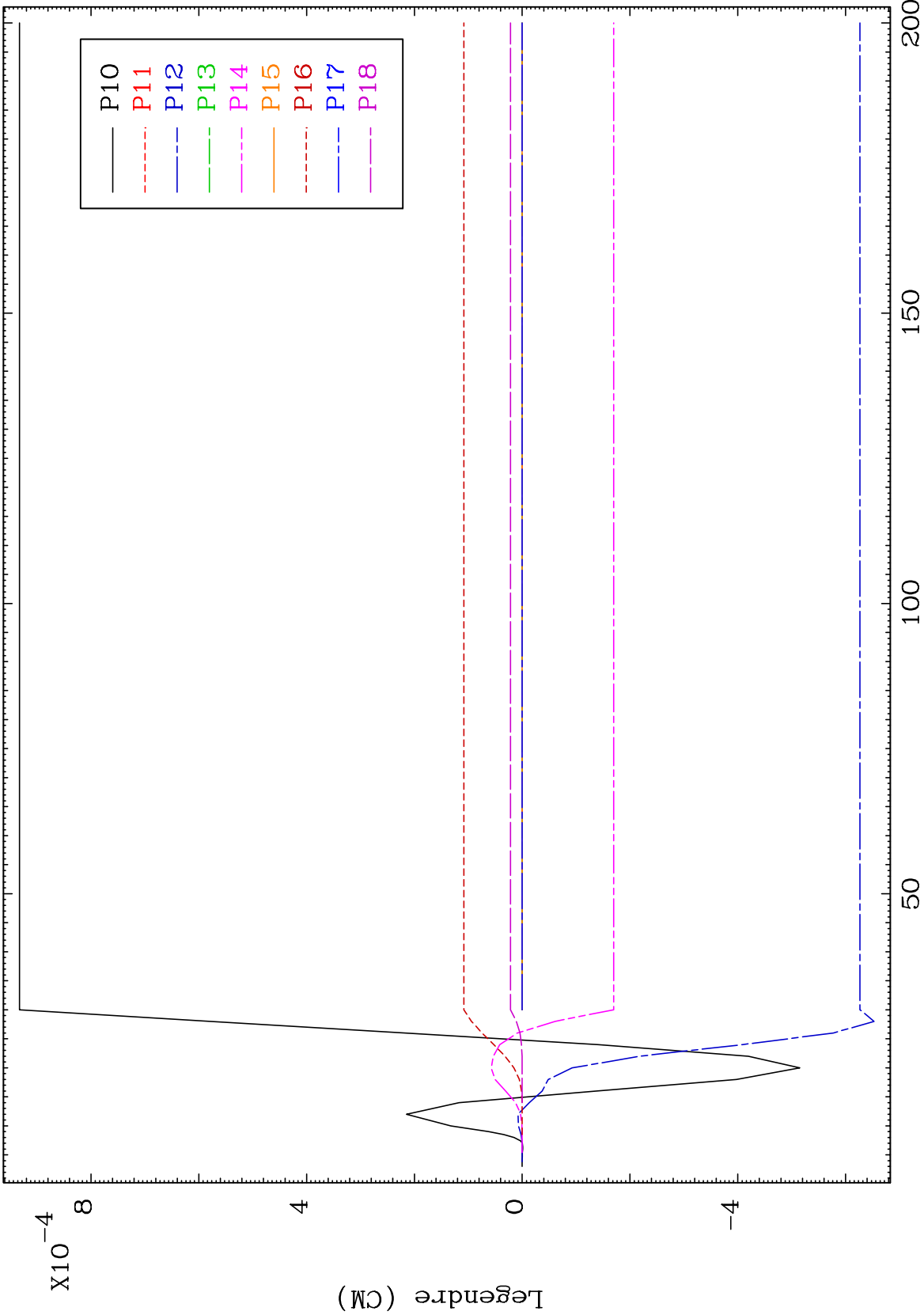
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

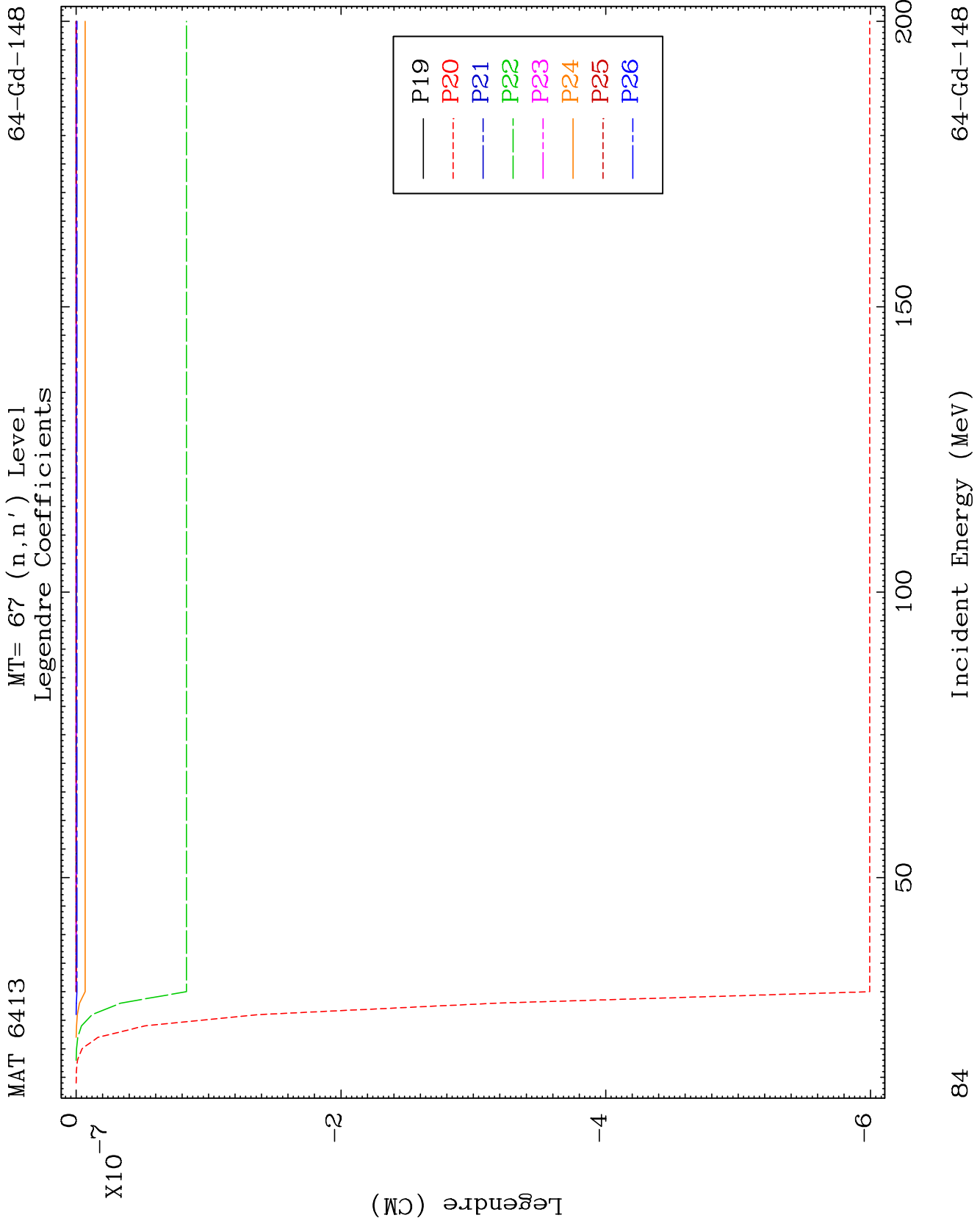
64-Gd-148



83

Incident Energy (MeV)

64-Gd-148

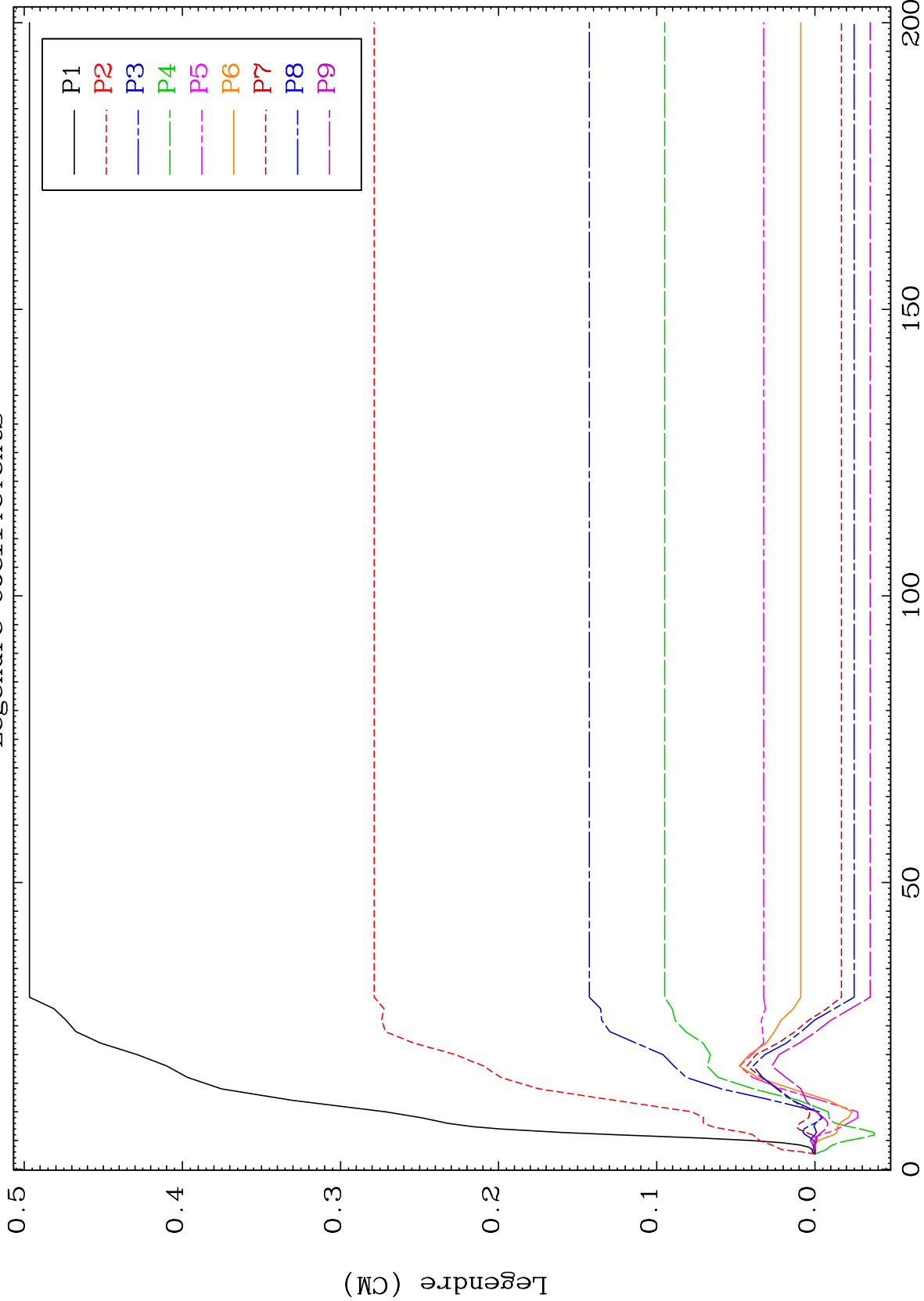


MAT 6413

MT= 68 (n,n') Level

64-Gd-148

Legendre Coefficients



85

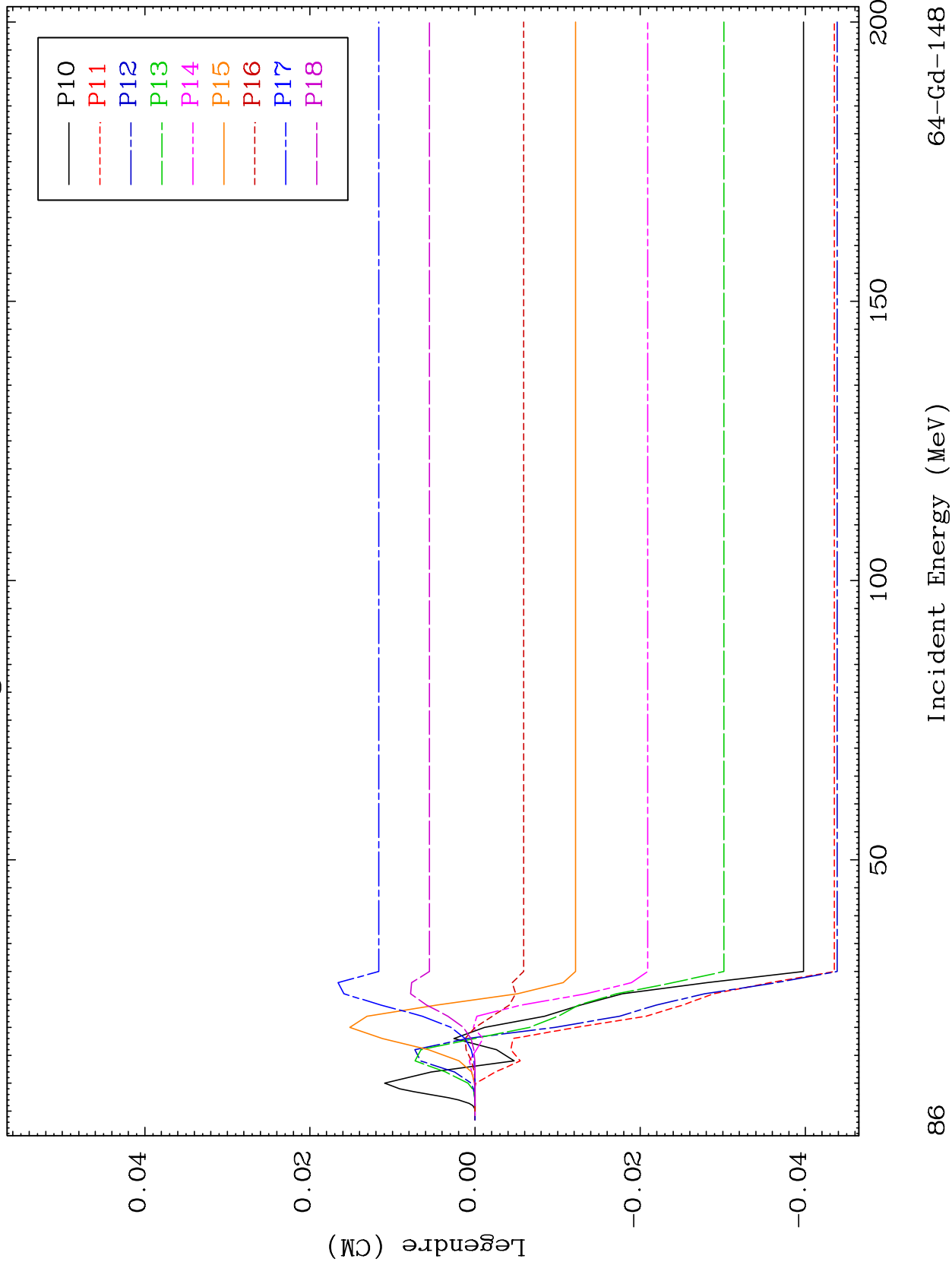
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



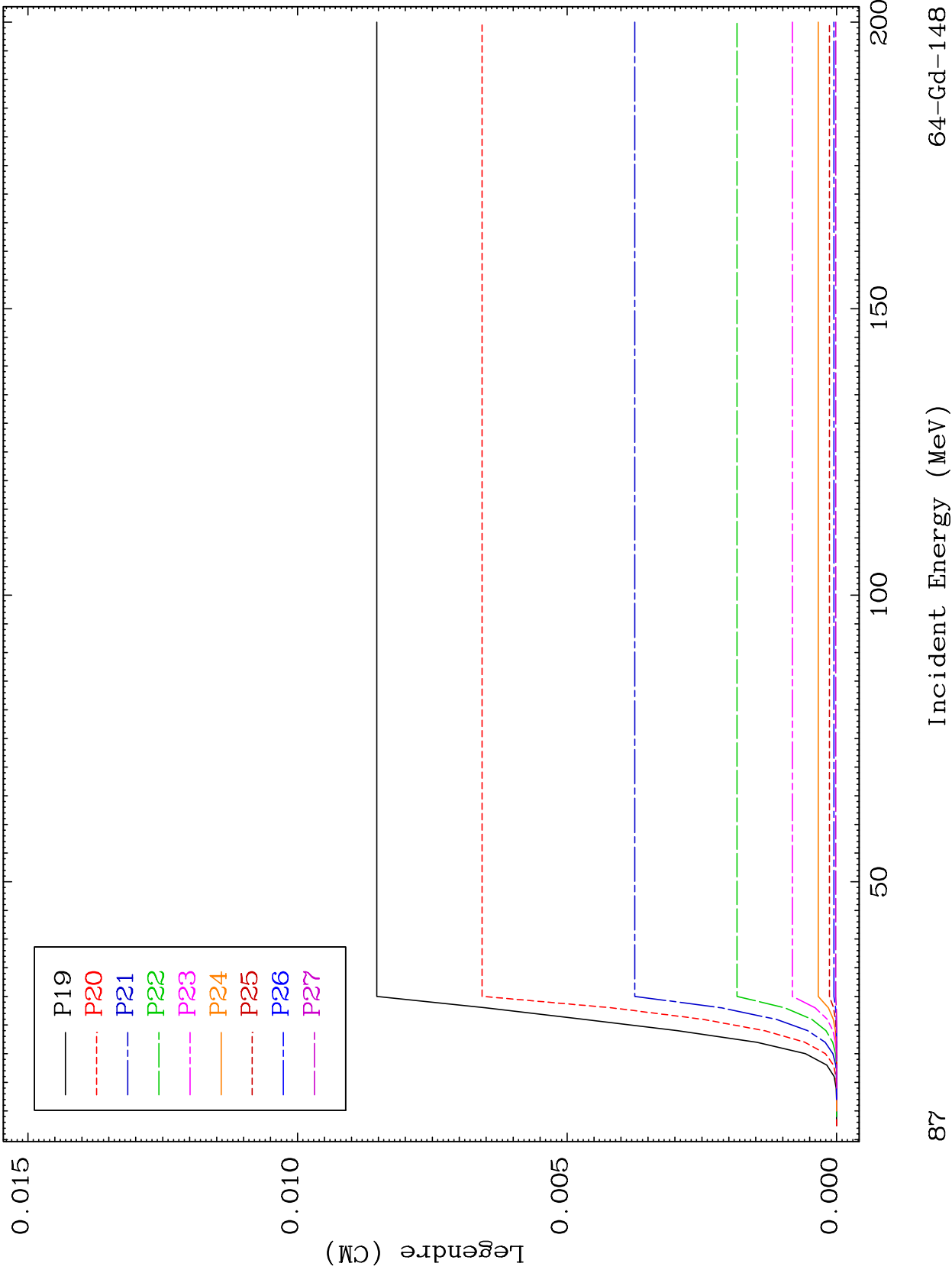
86

64-Gd-148

MAT 6413

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

64-Gd-148



87

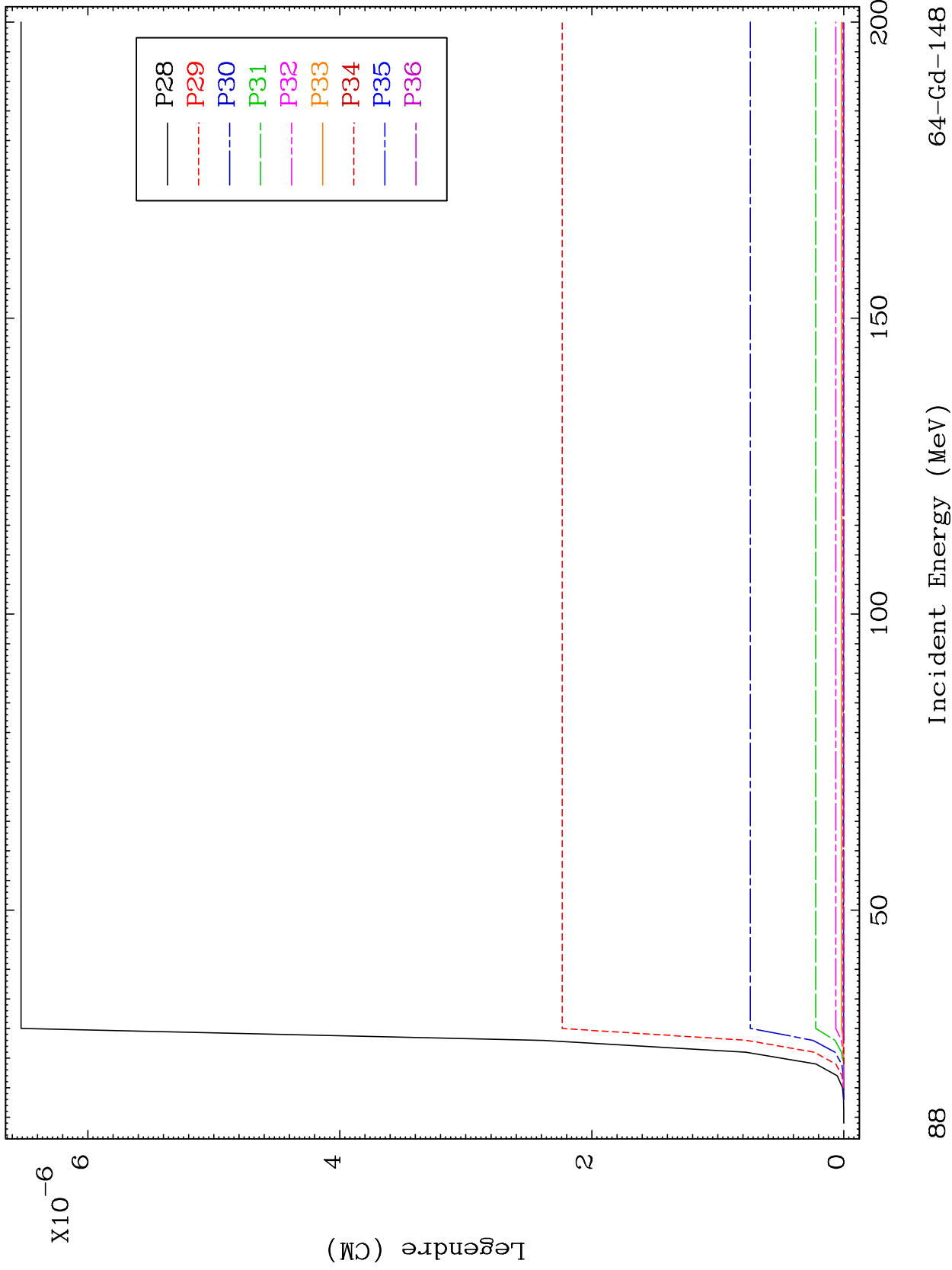
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

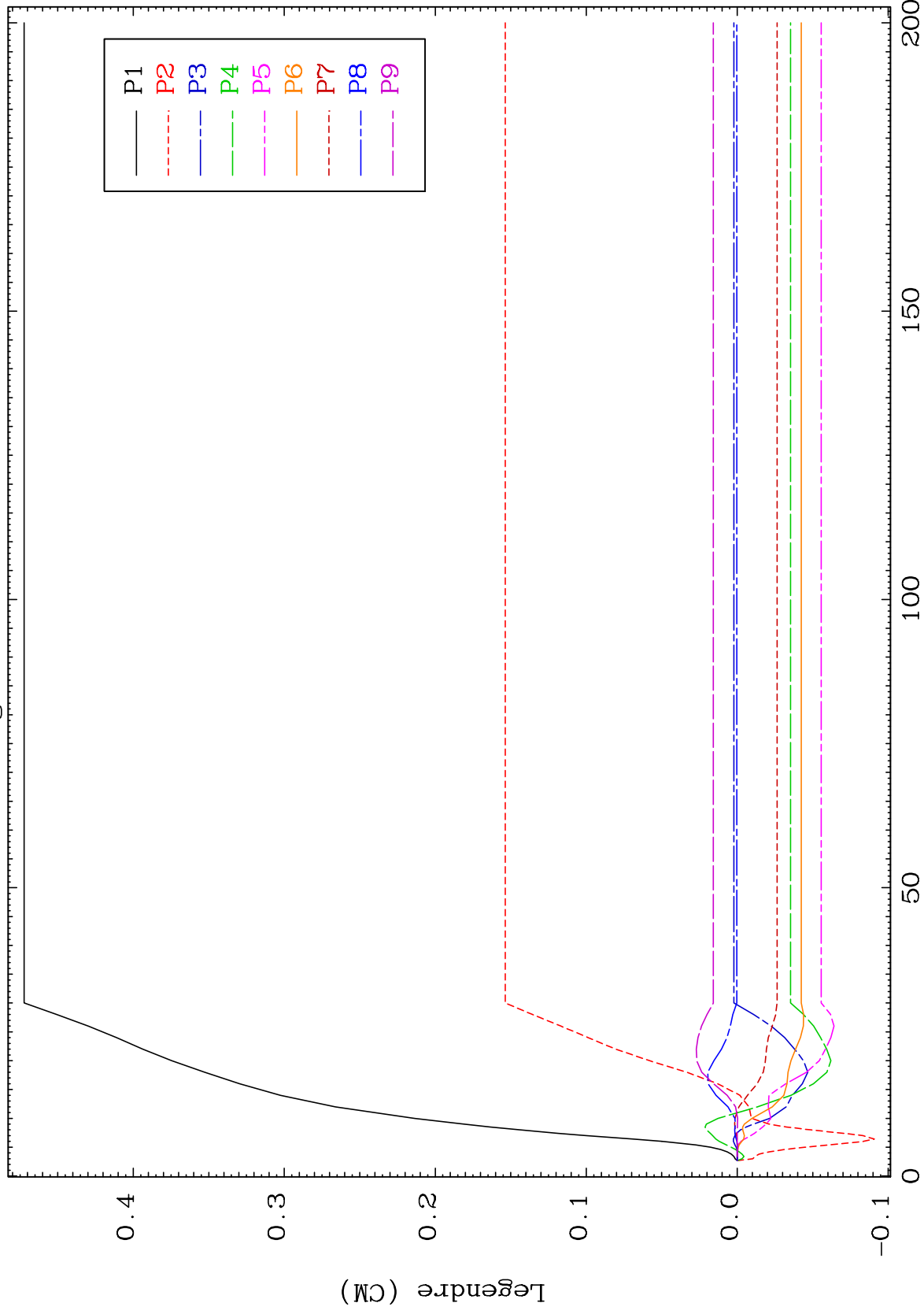
64-Gd-148



MAT 6413

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

64-Gd-148



64-Gd-148

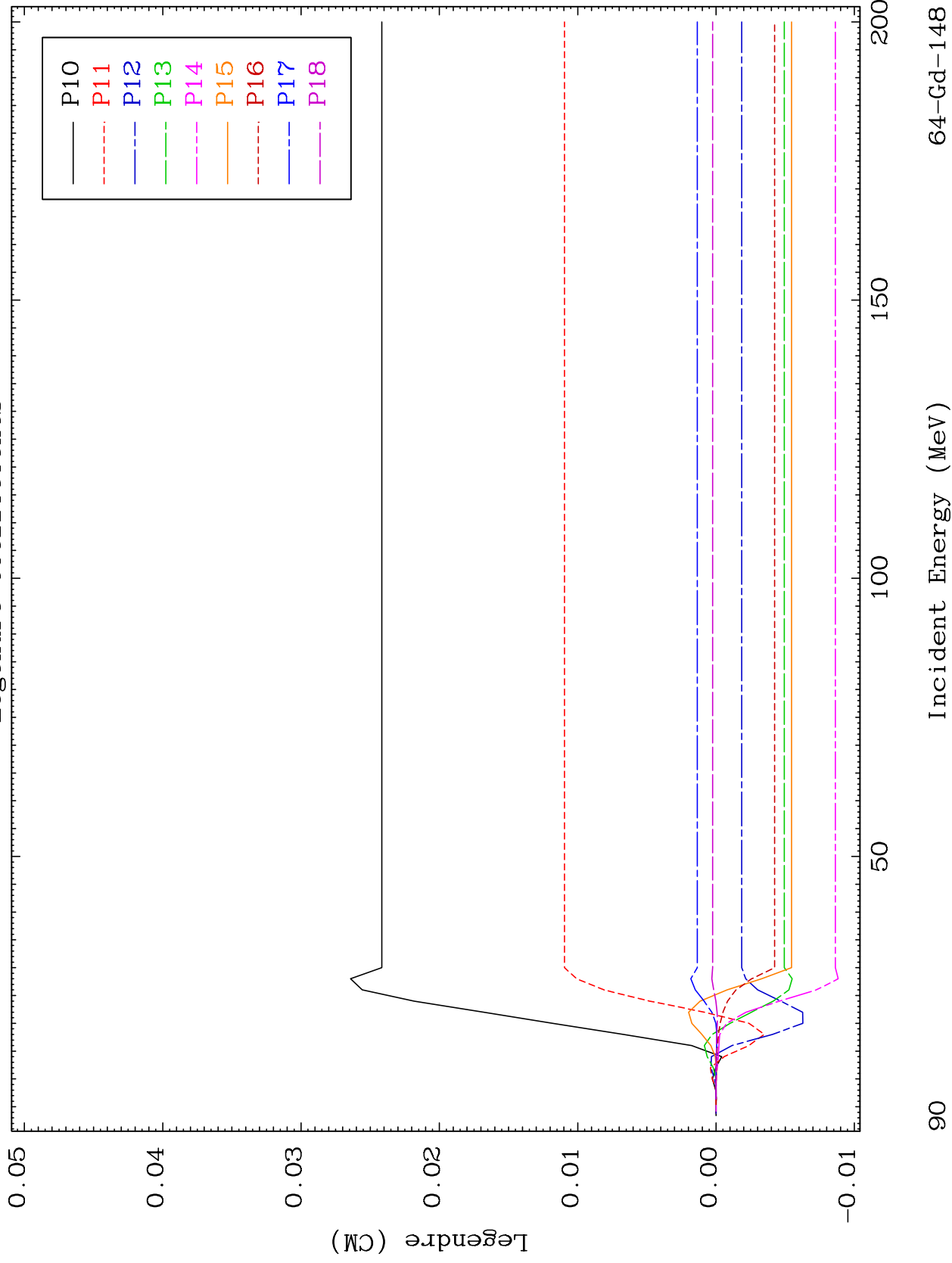
Incident Energy (MeV)

89

MAT 6413

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

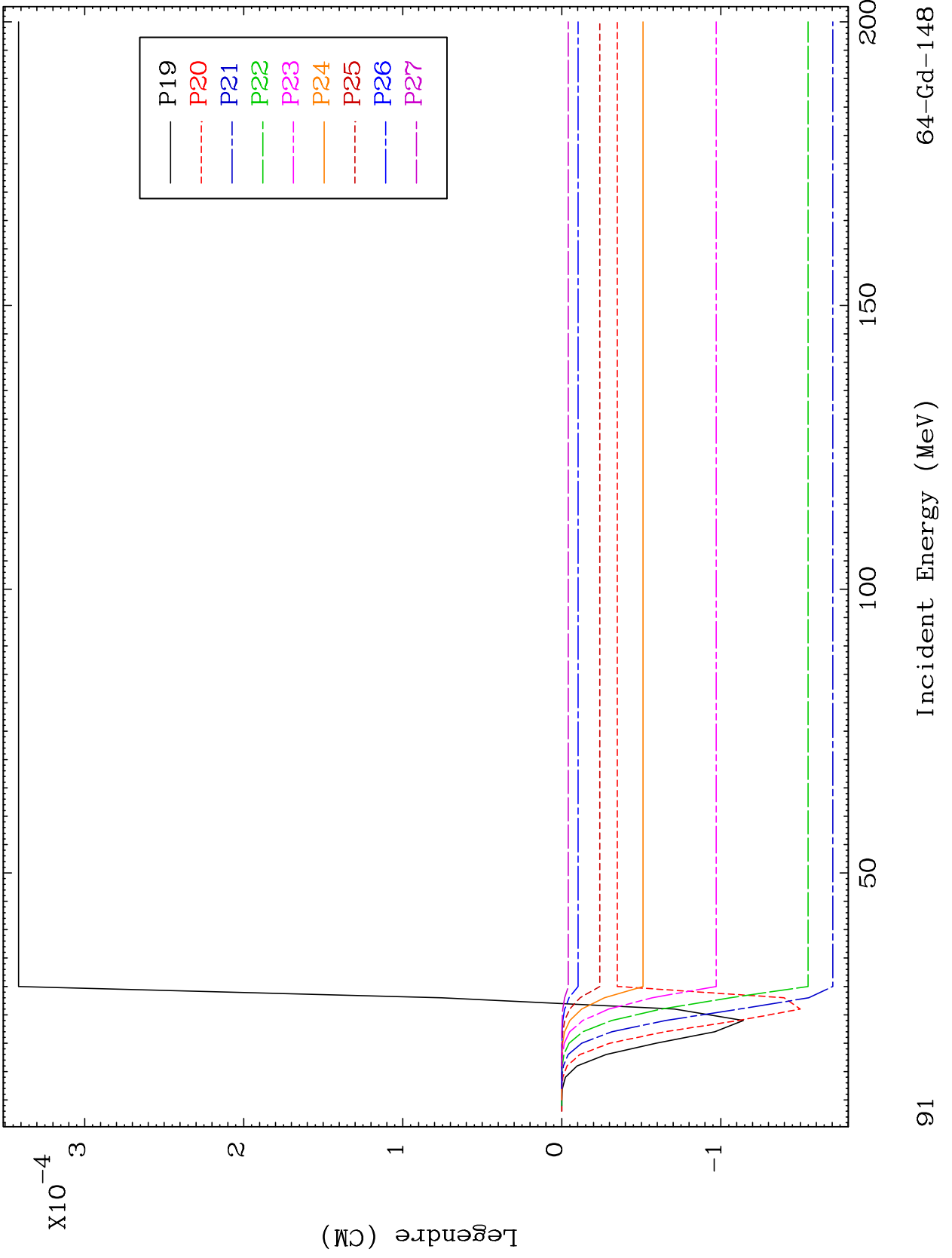
64-Gd-148



64-Gd-148

Incident Energy (MeV)

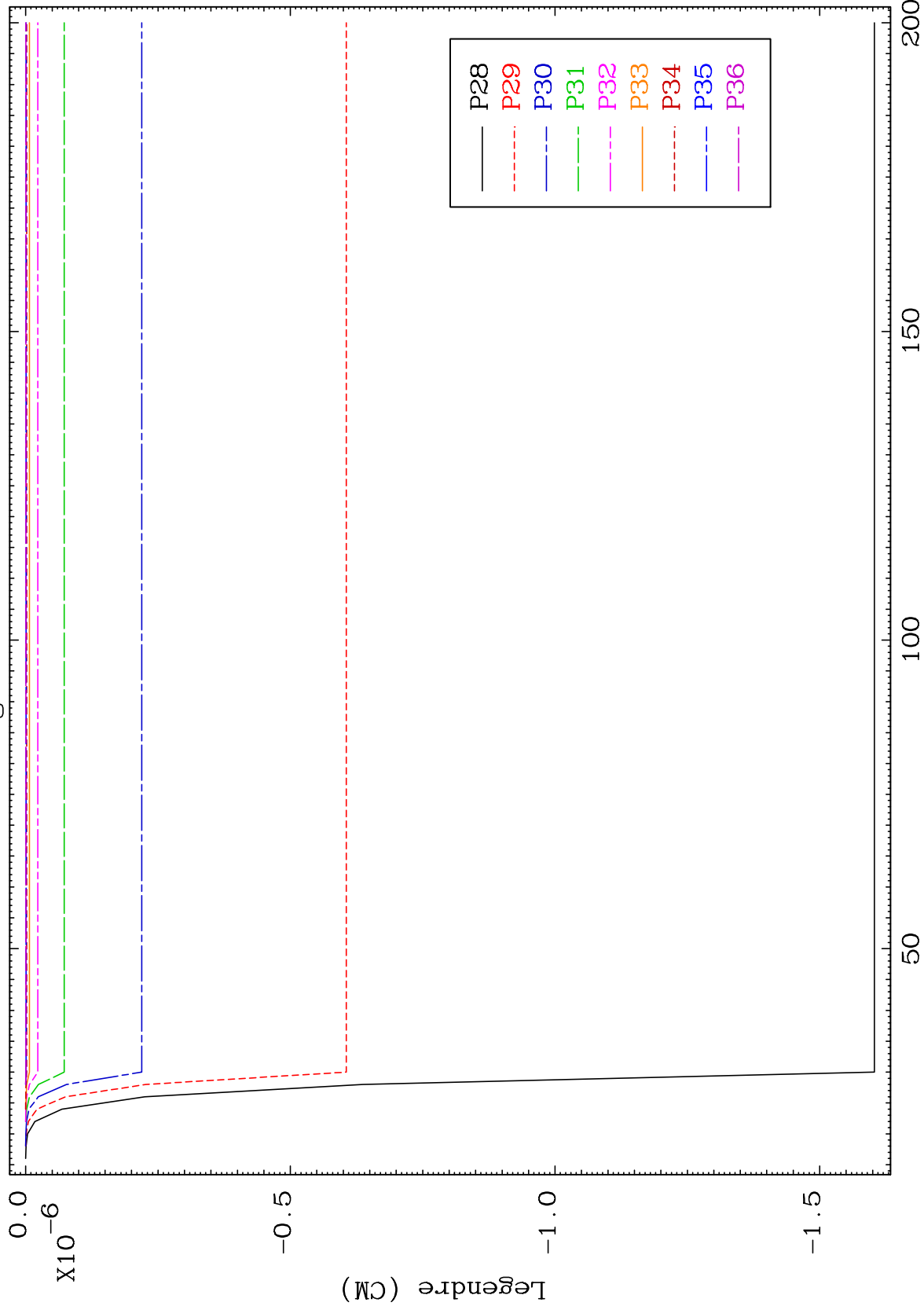
90



MAT 6413

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

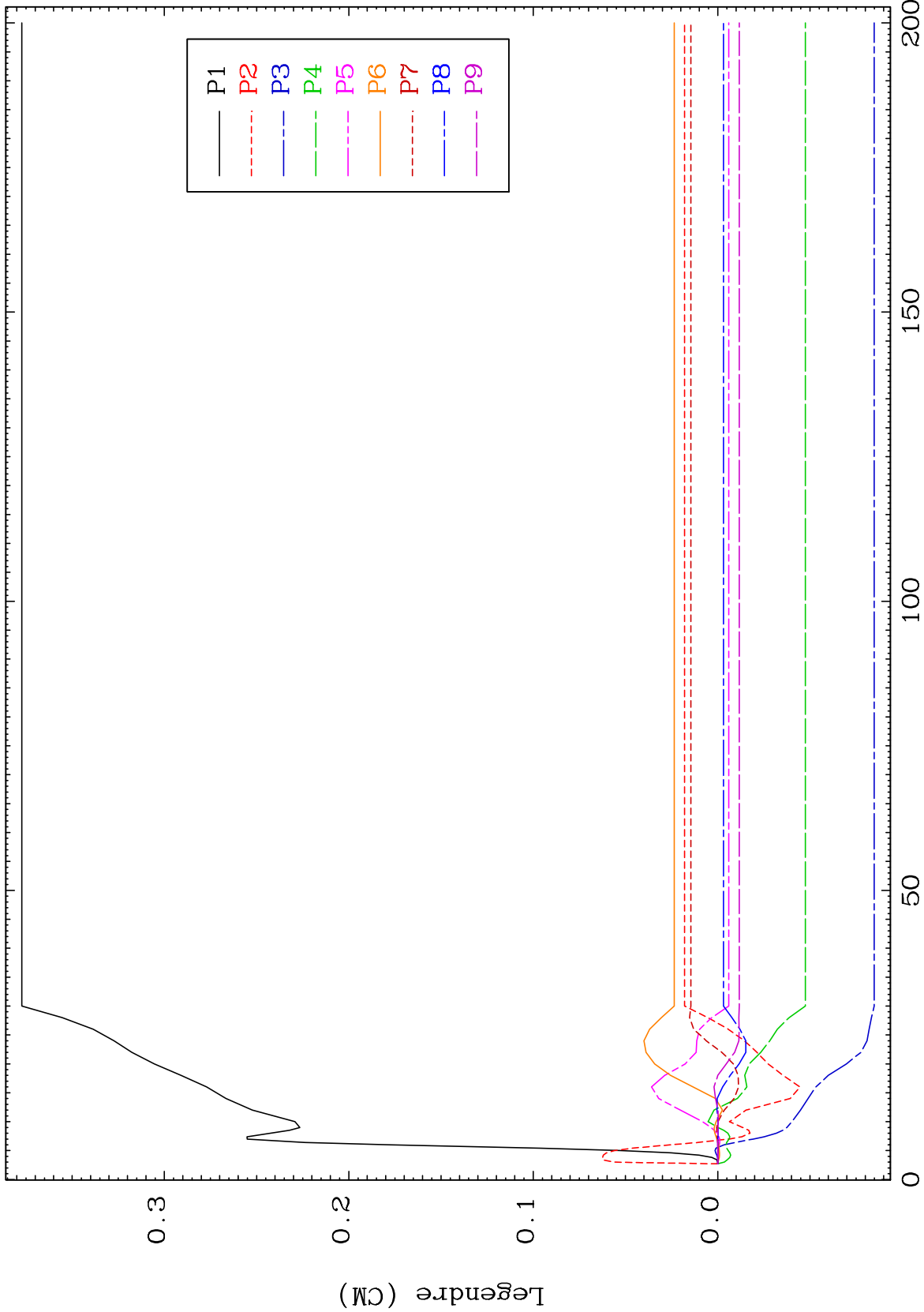
64-Gd-148



MAT 6413

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

64-Gd-148



93

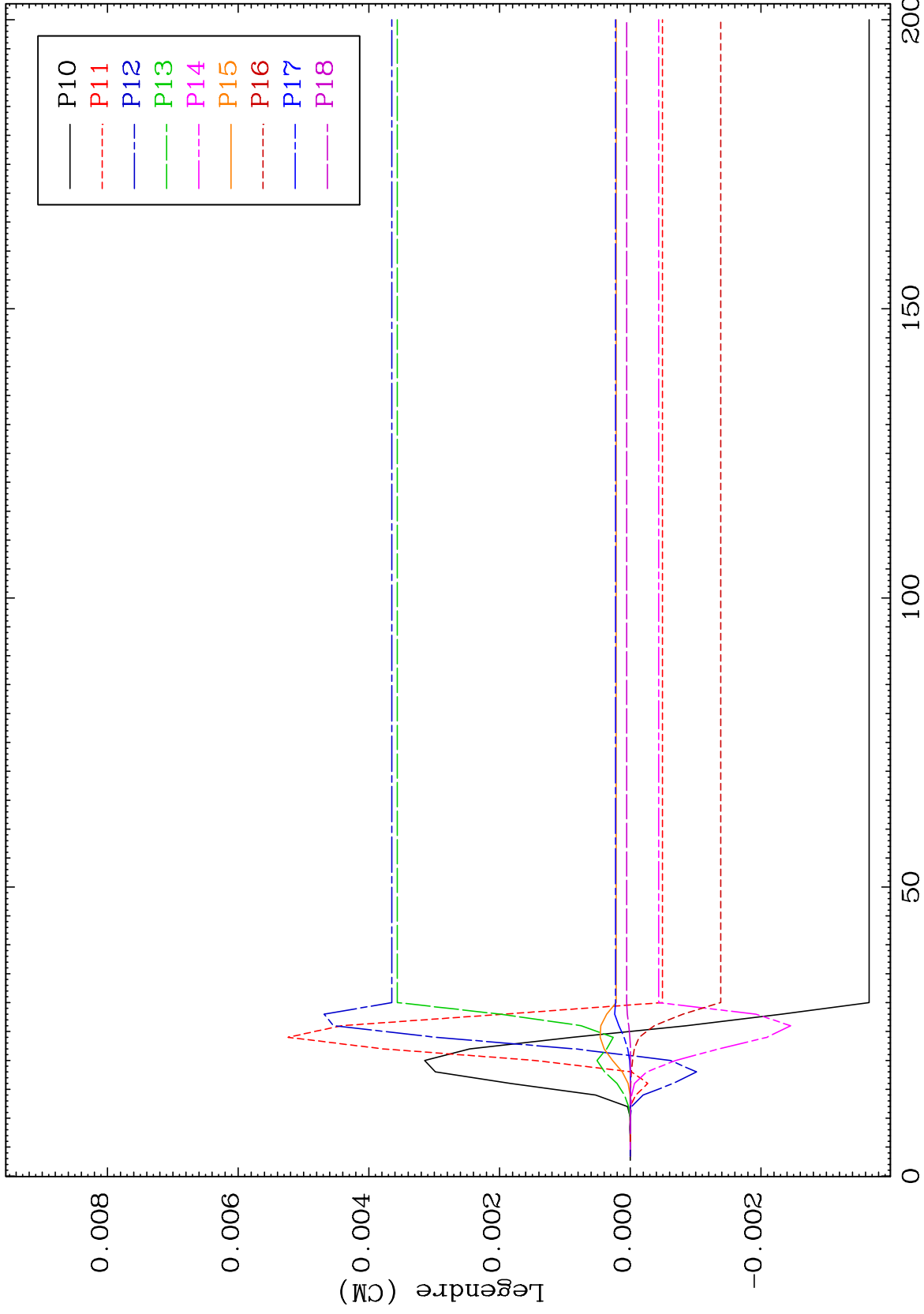
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



94

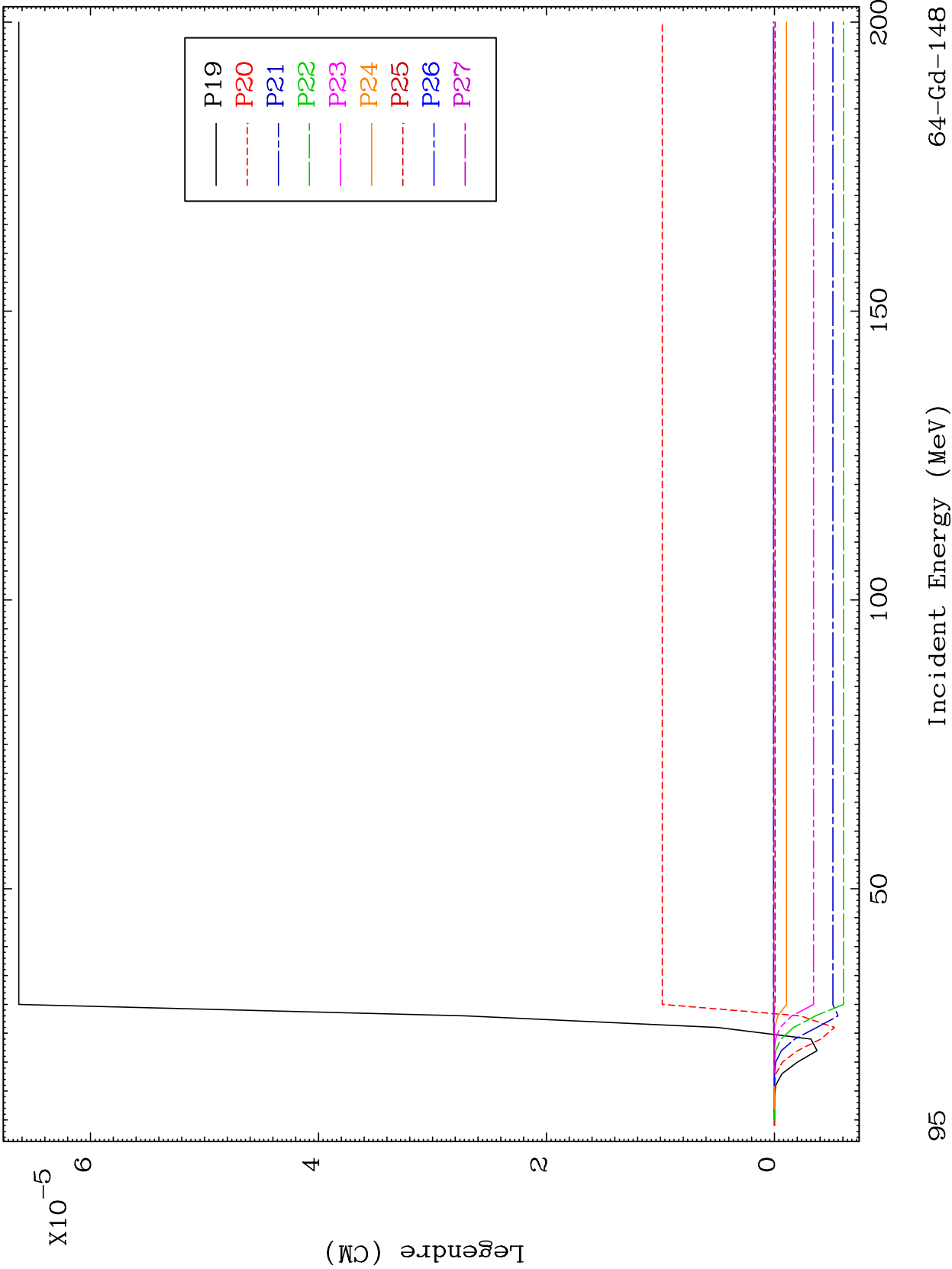
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



95

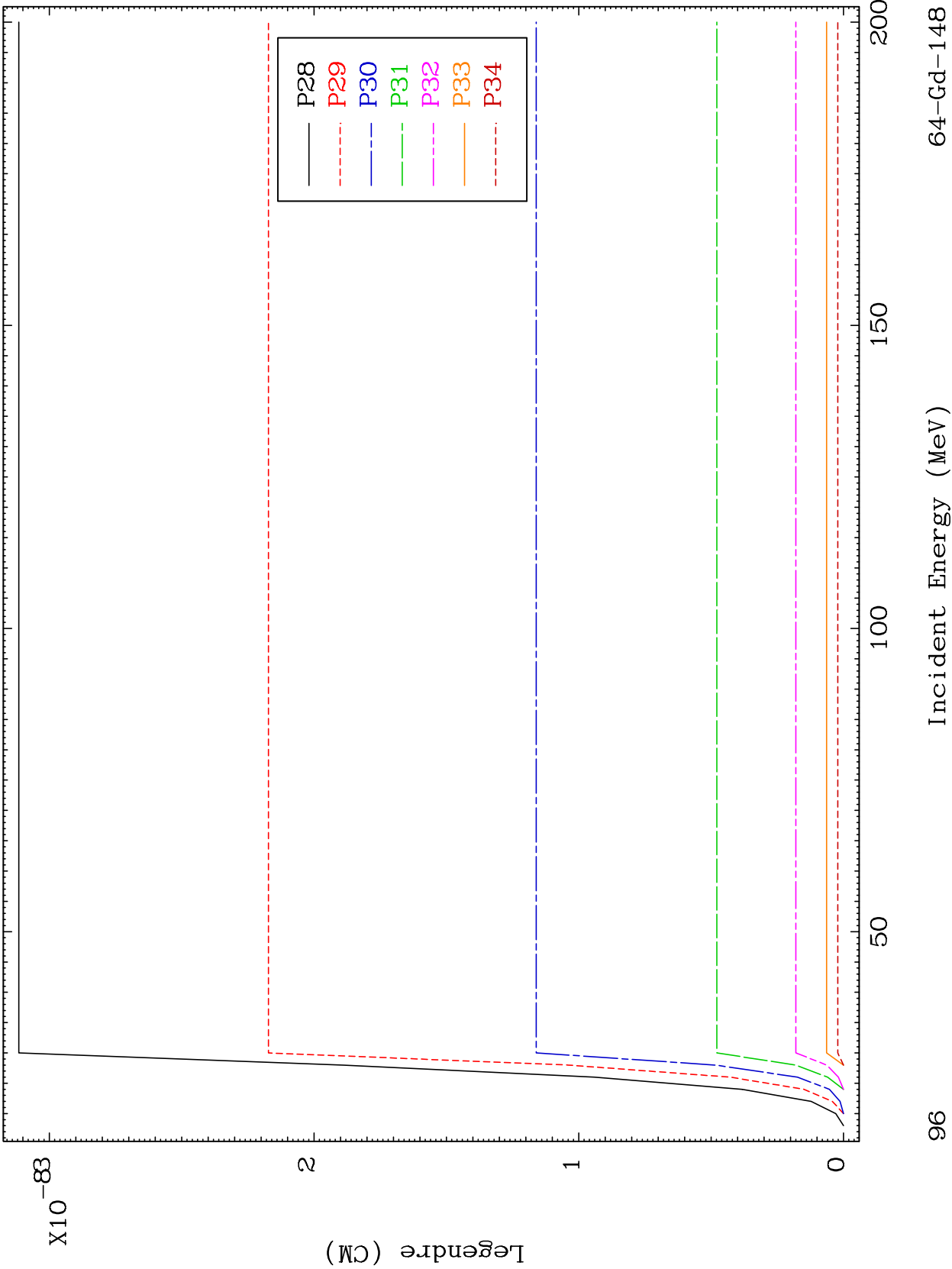
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



96

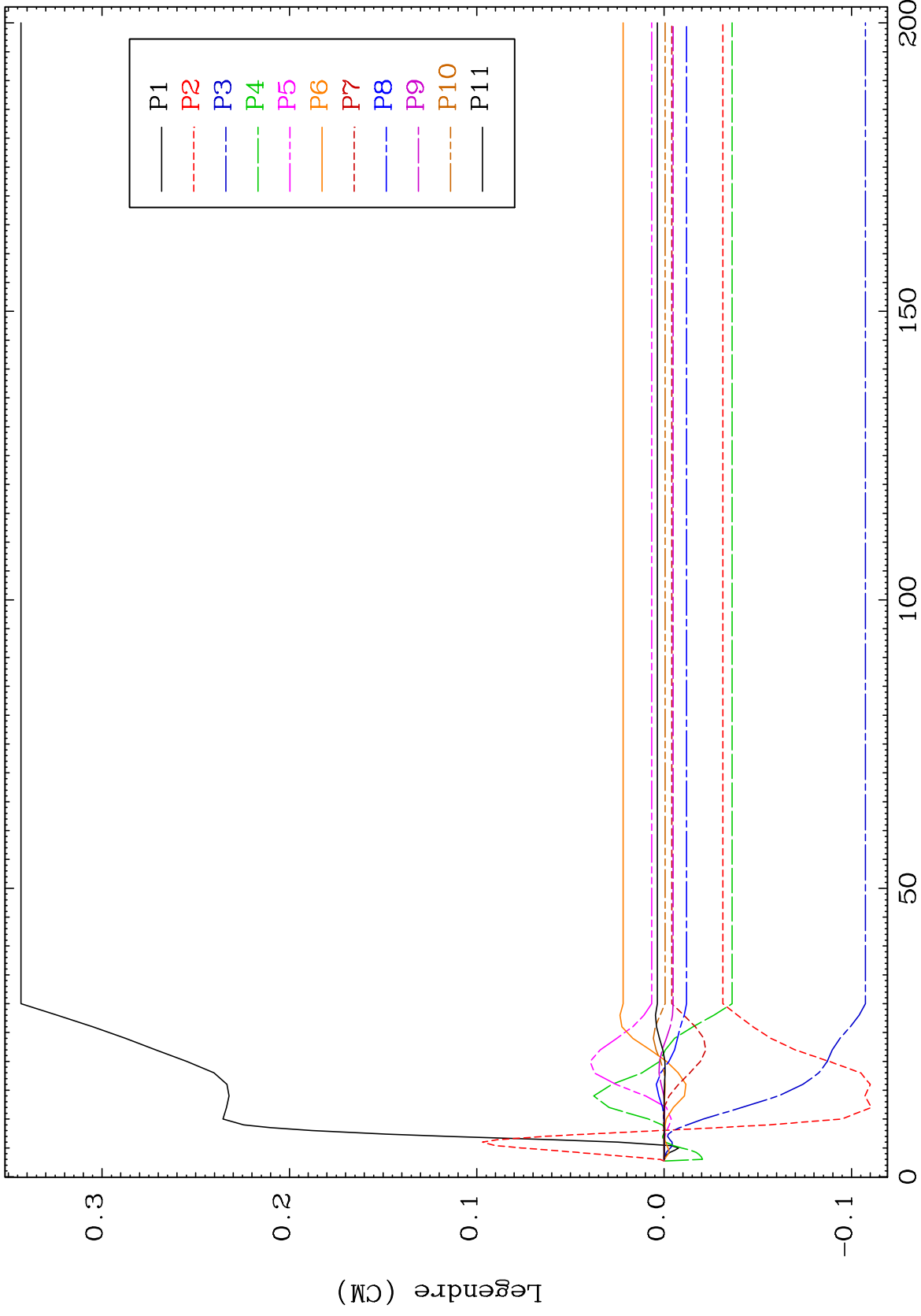
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



97

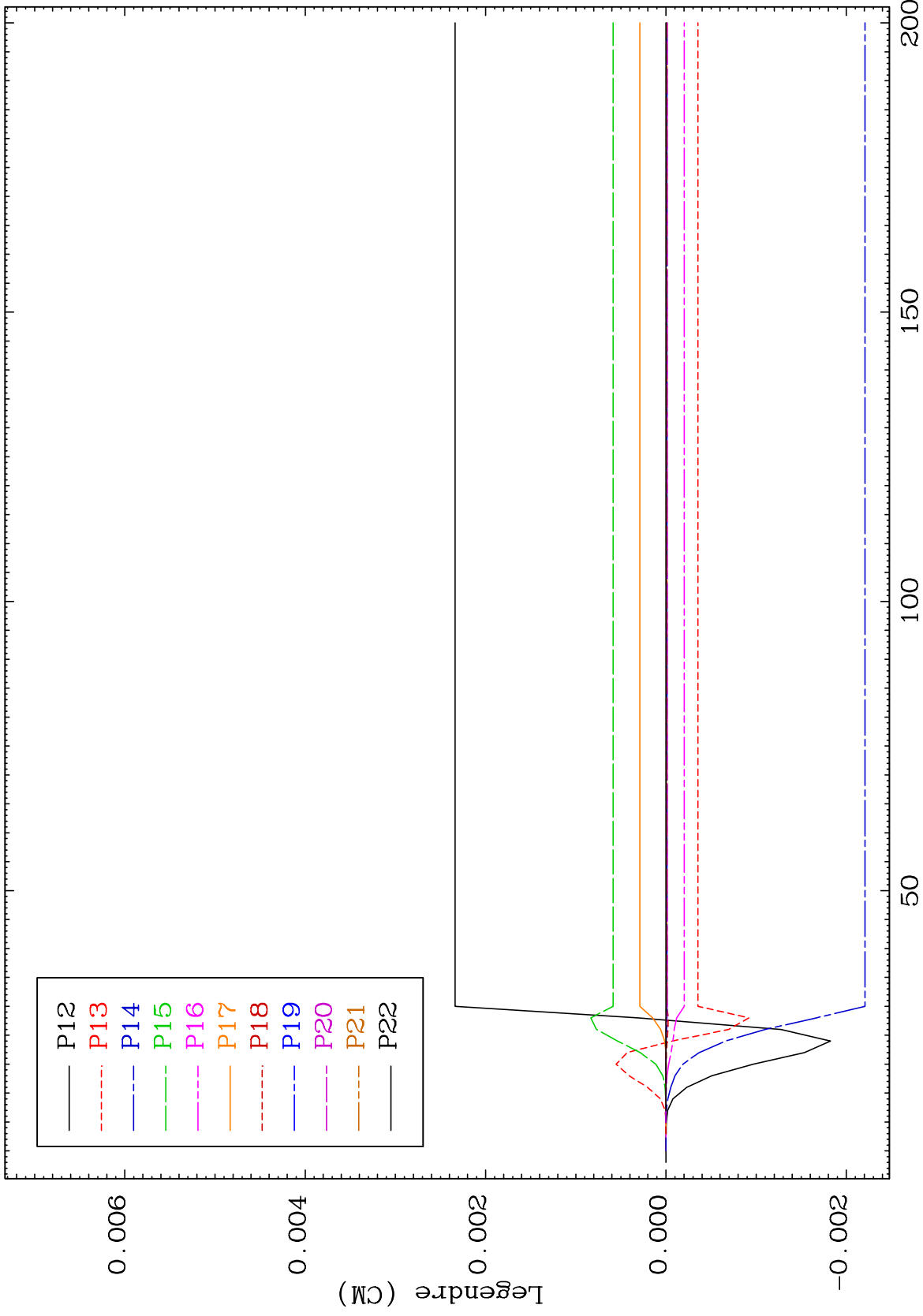
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



98

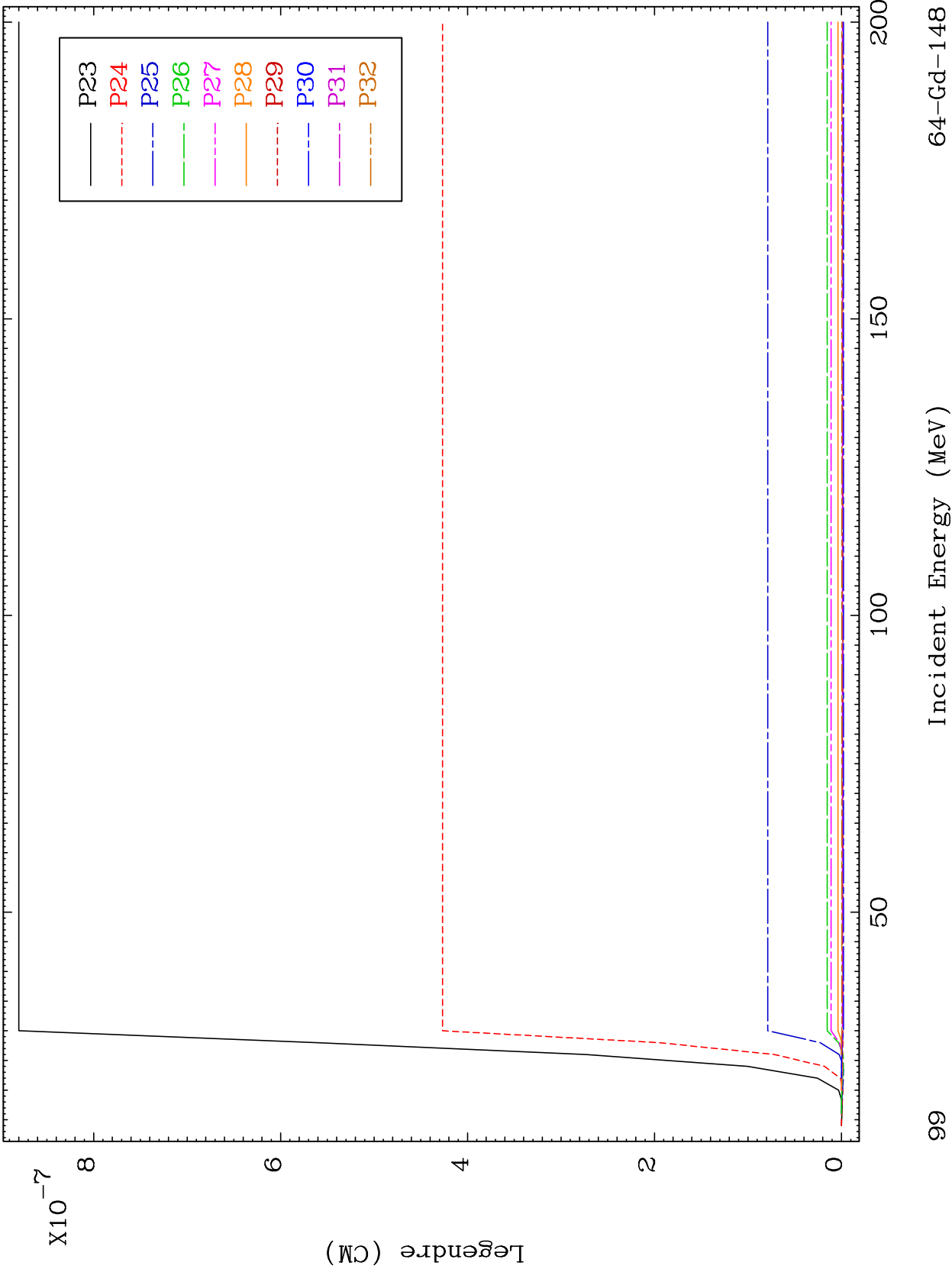
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



99

Incident Energy (MeV)

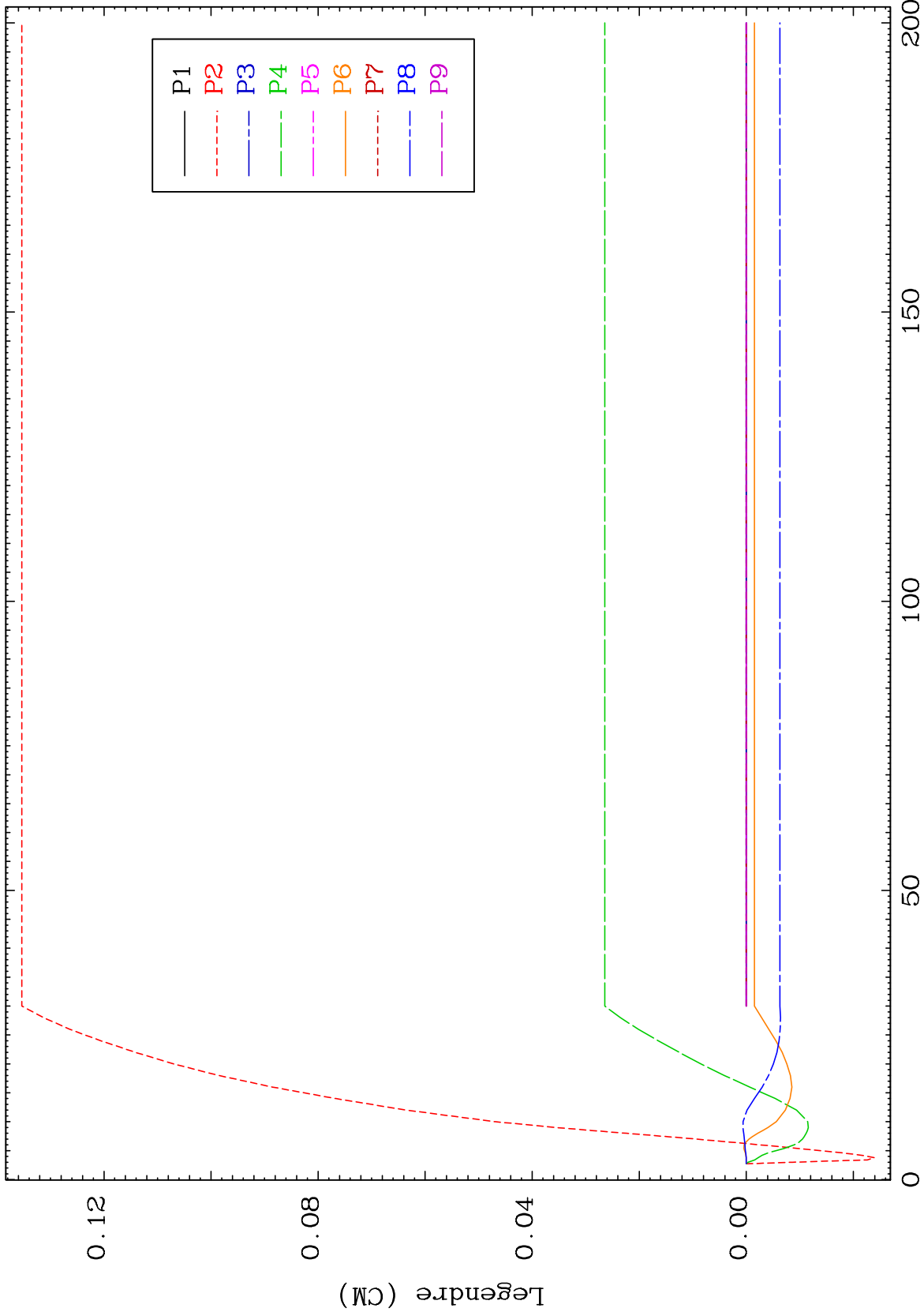
64-Gd-148

MAT 6413

MT= 72 (n,n') Level

64-Gd-148

Legendre Coefficients



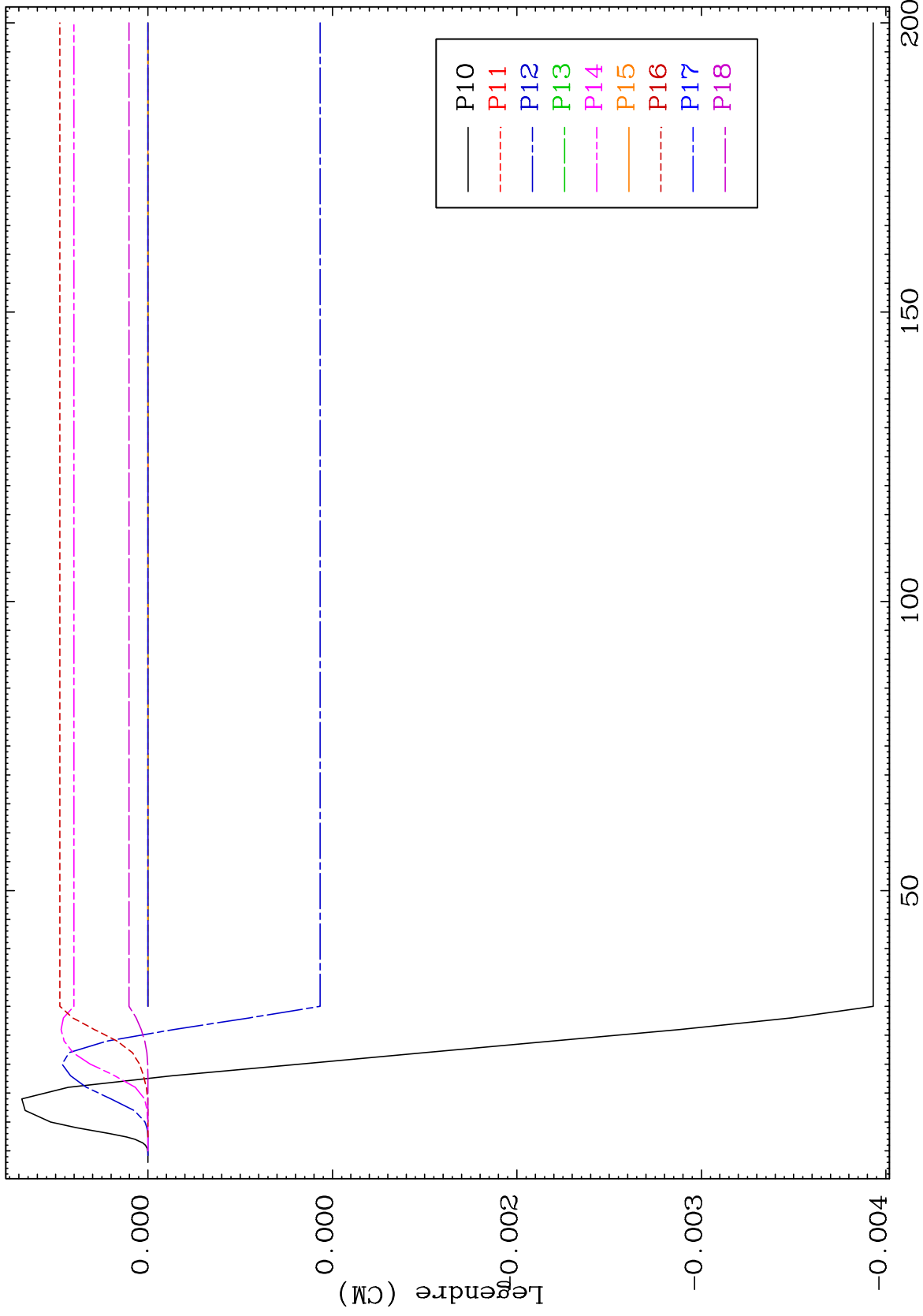
64-Gd-148

Incident Energy (MeV)

MAT 6413

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

64-Gd-148



101

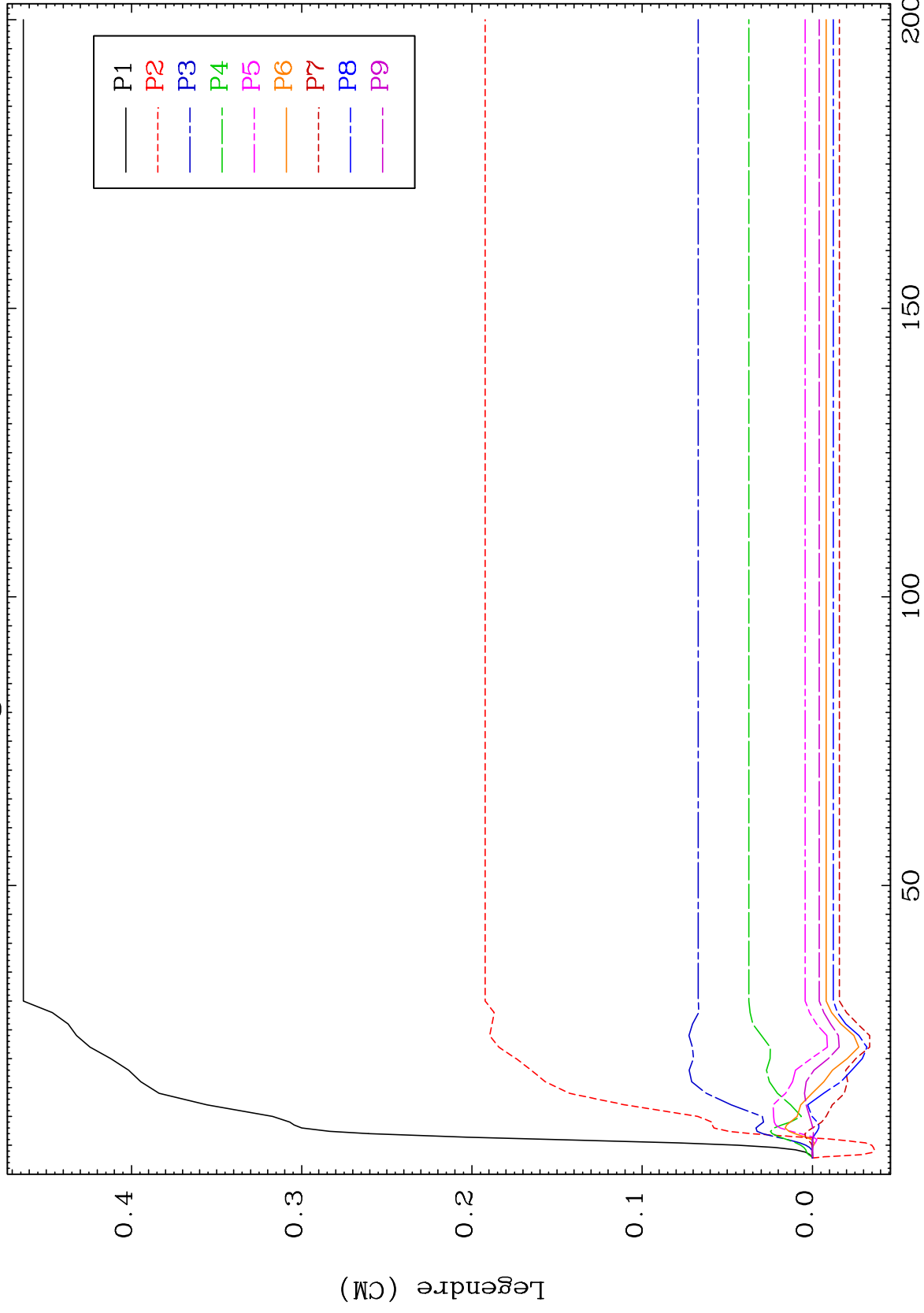
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



103

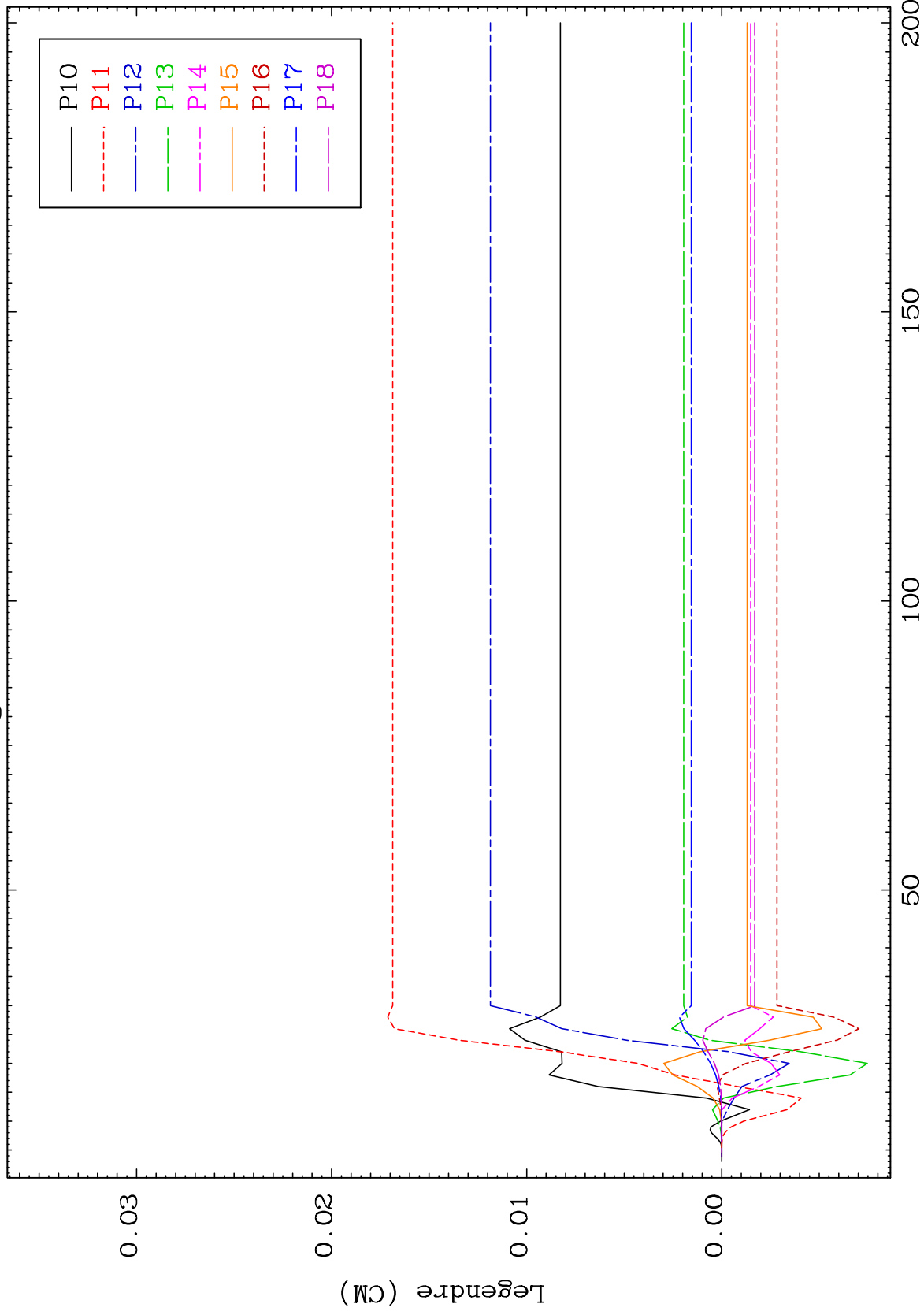
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



104

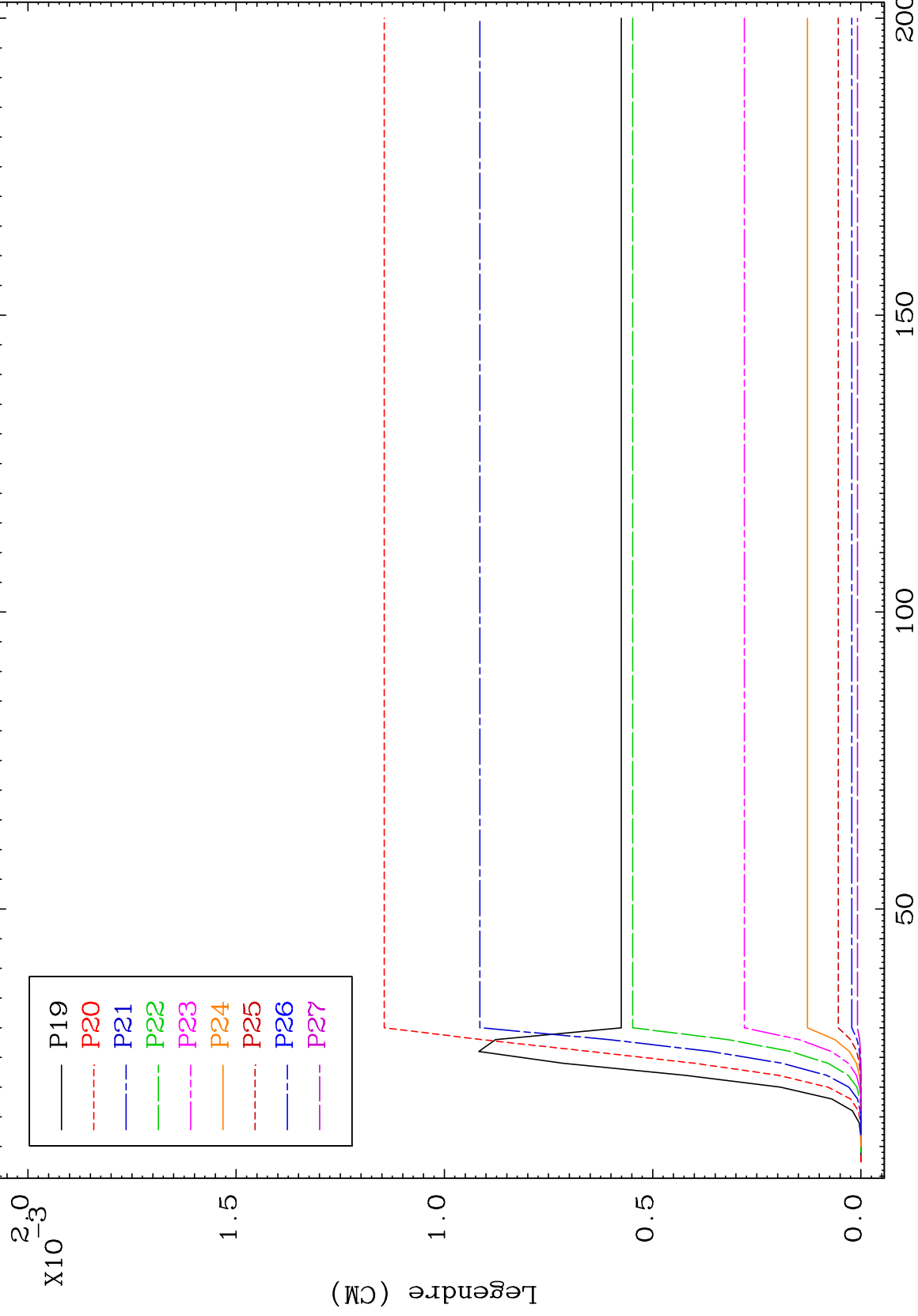
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



105

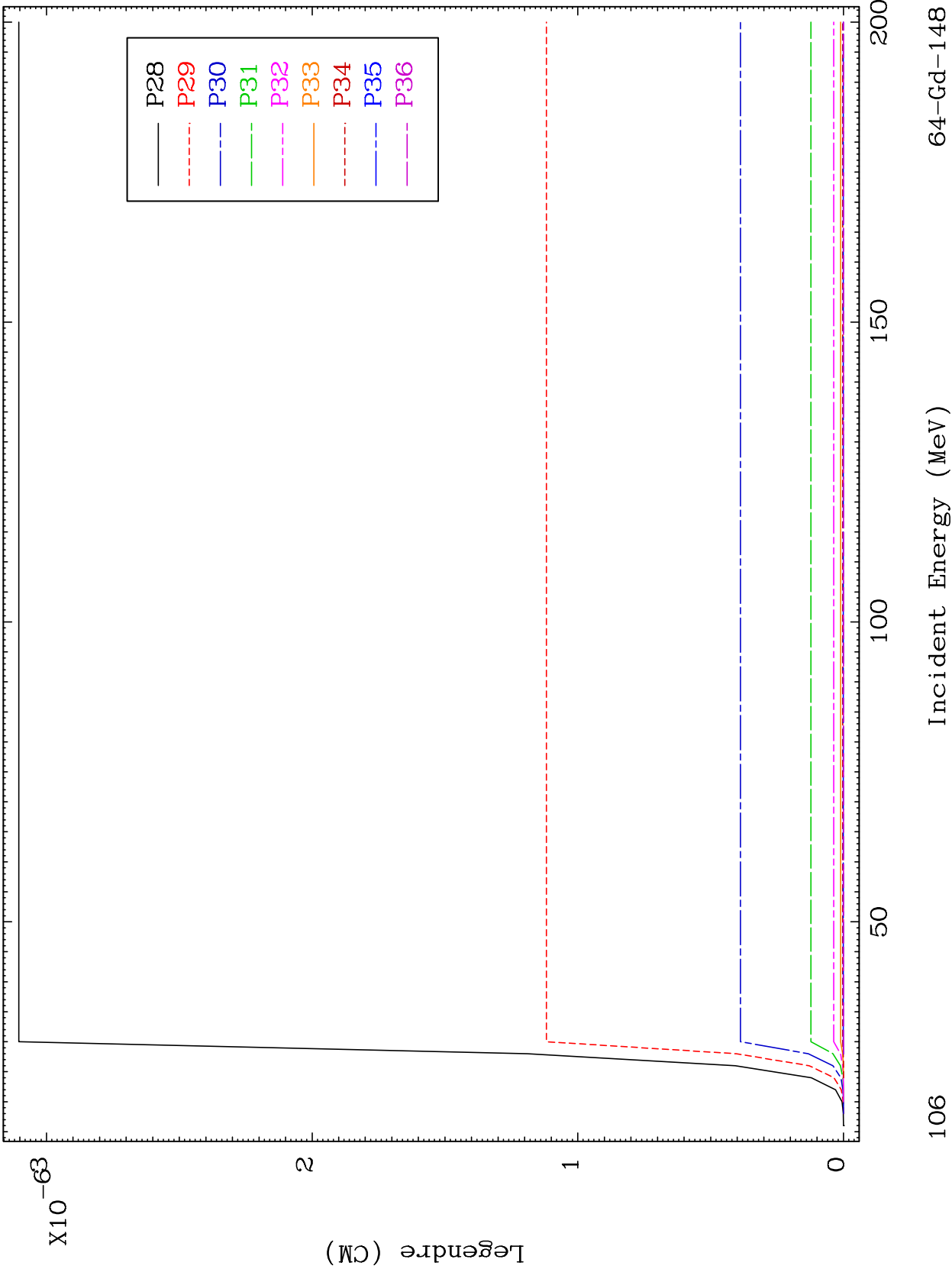
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



64-Gd-148

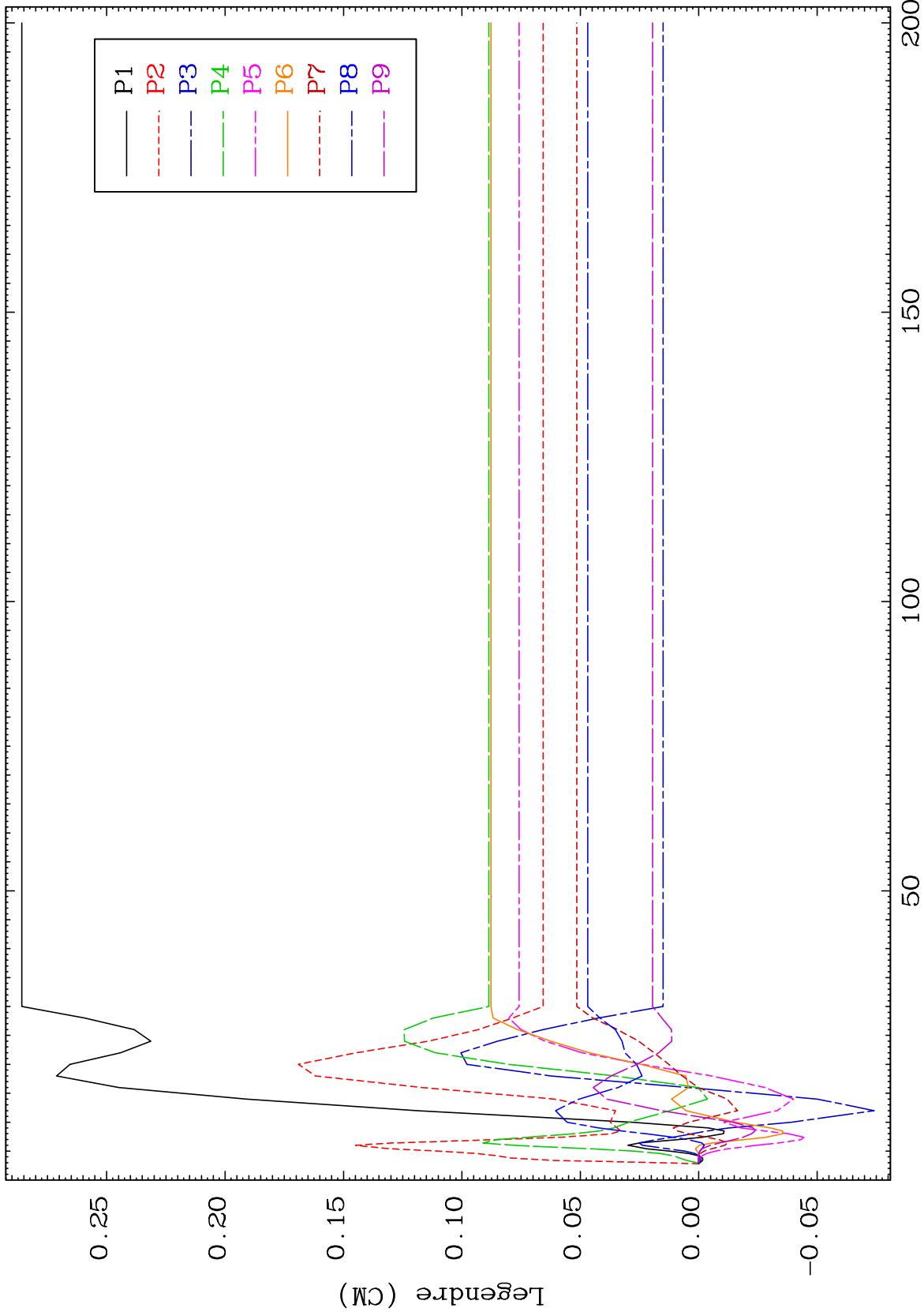
Incident Energy (MeV)

106

MAT 6413

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

64-Gd-148



107

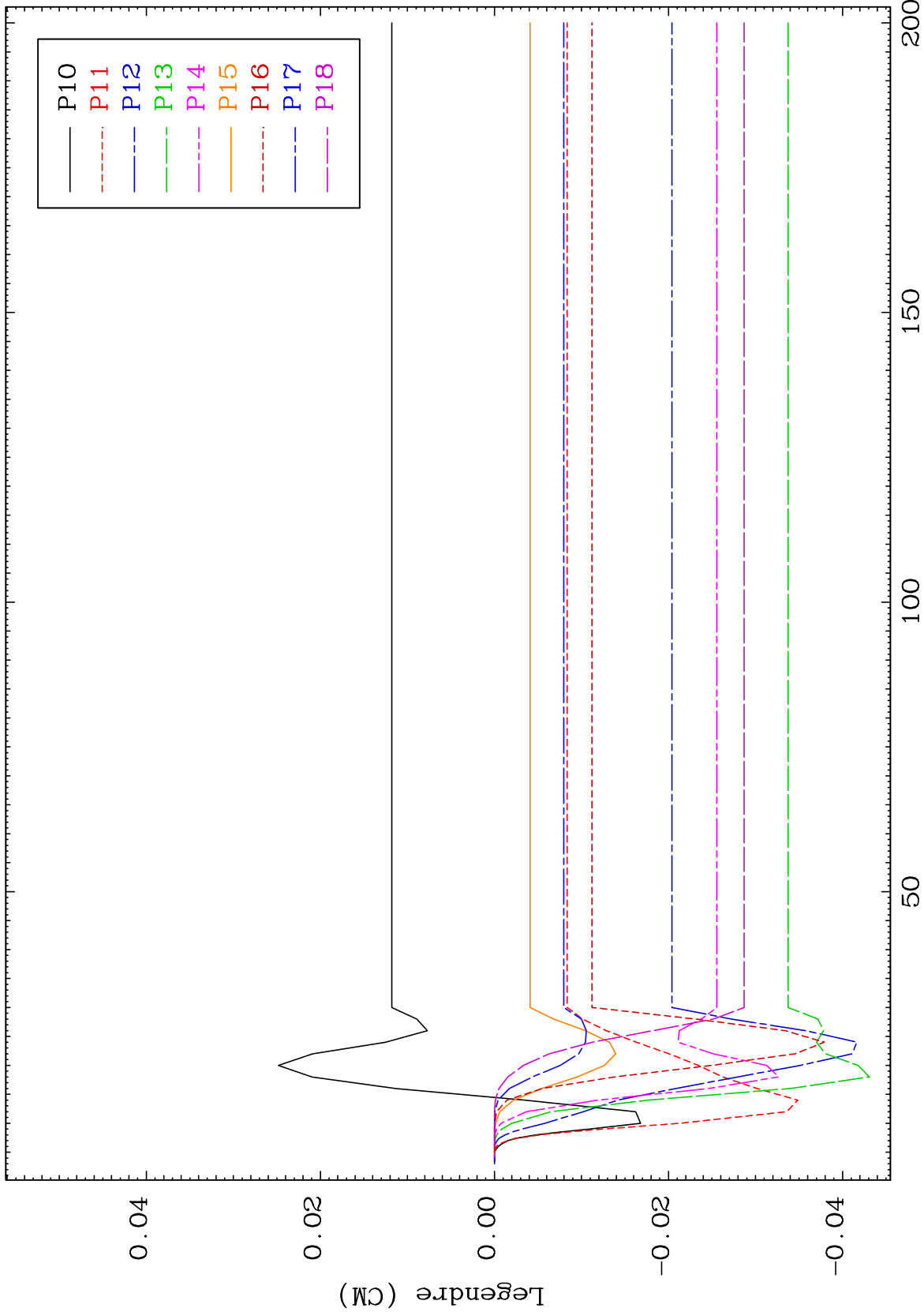
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

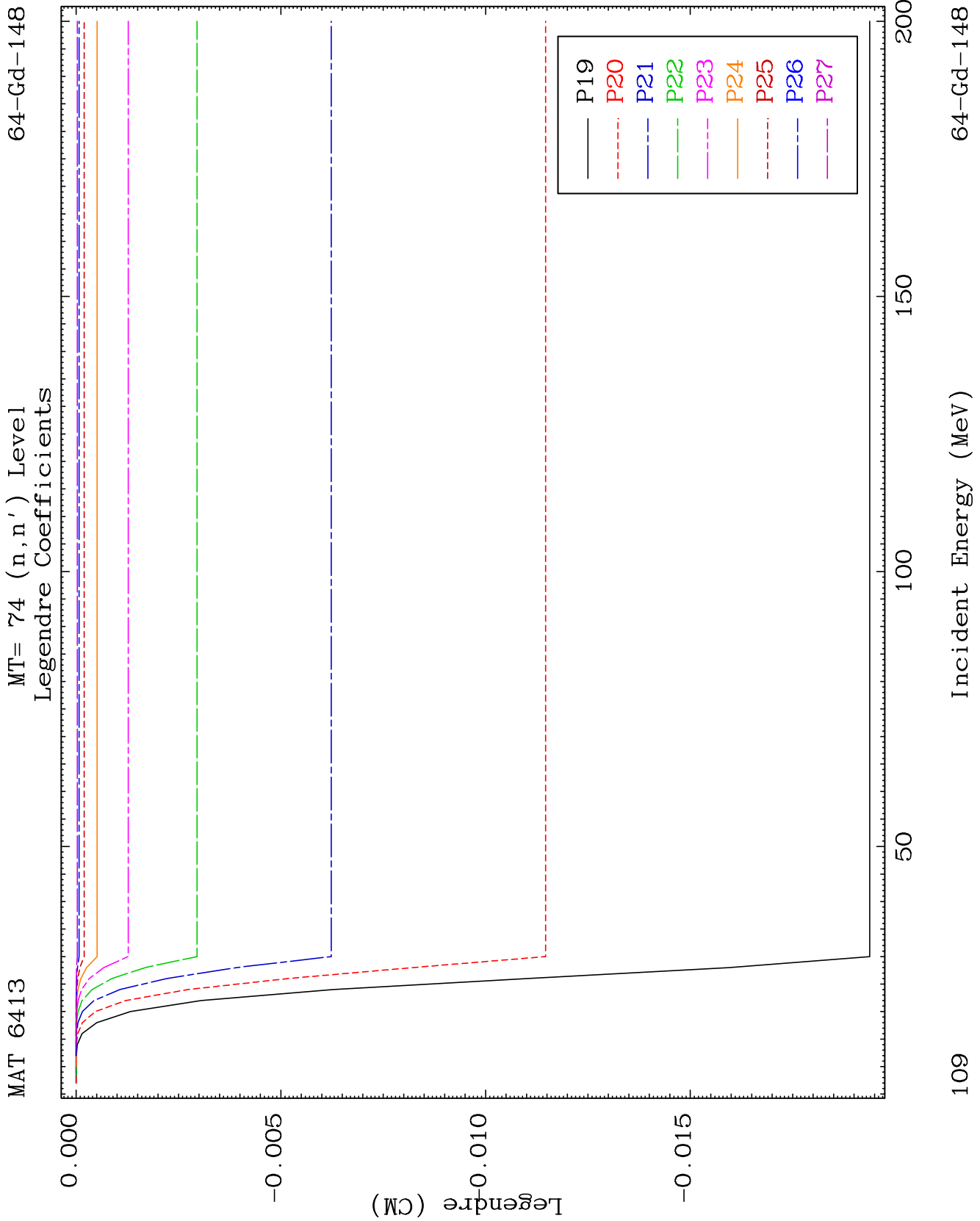
64-Gd-148



108

Incident Energy (MeV)

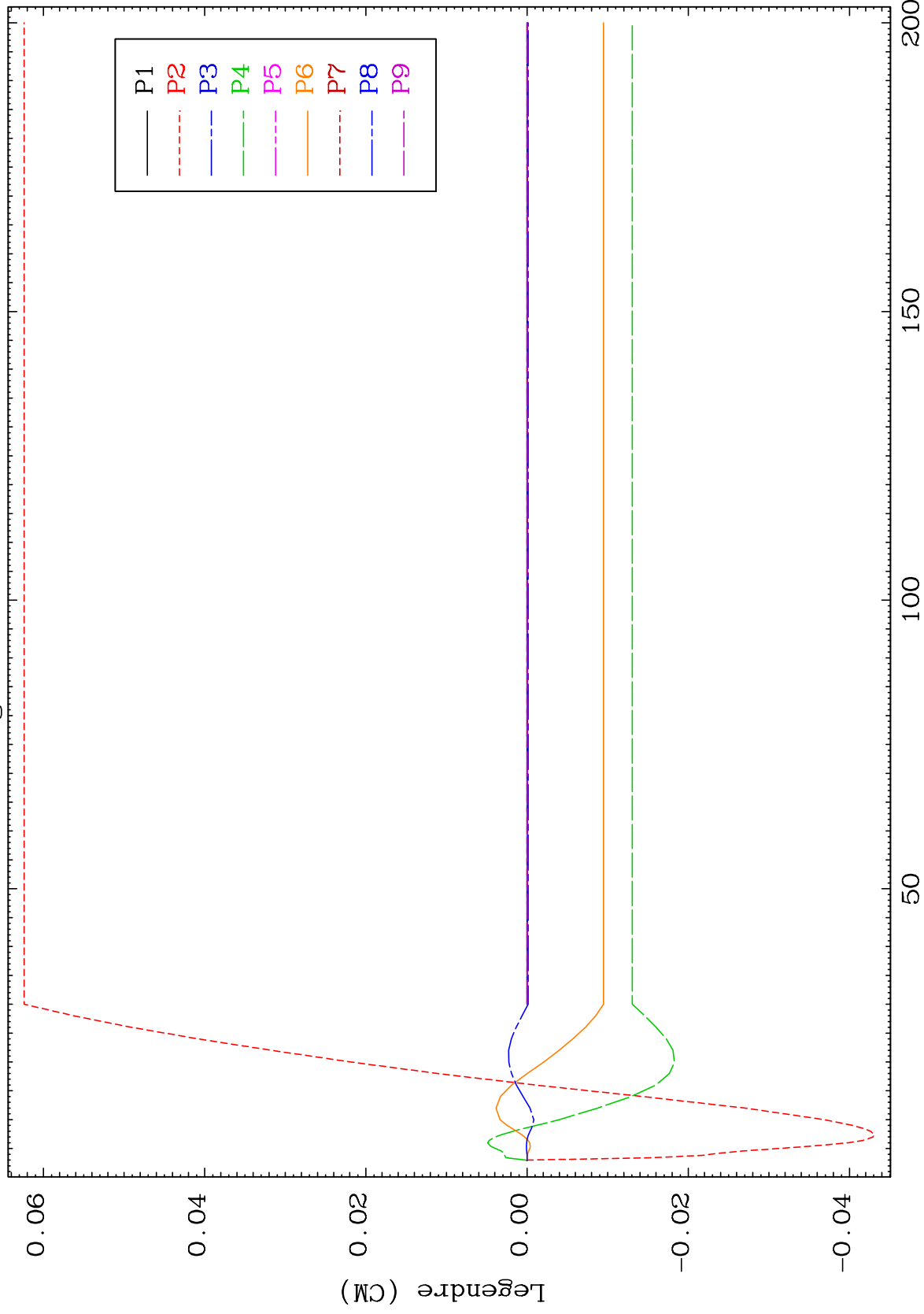
64-Gd-148



MAT 6413

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

64-Gd-148



111

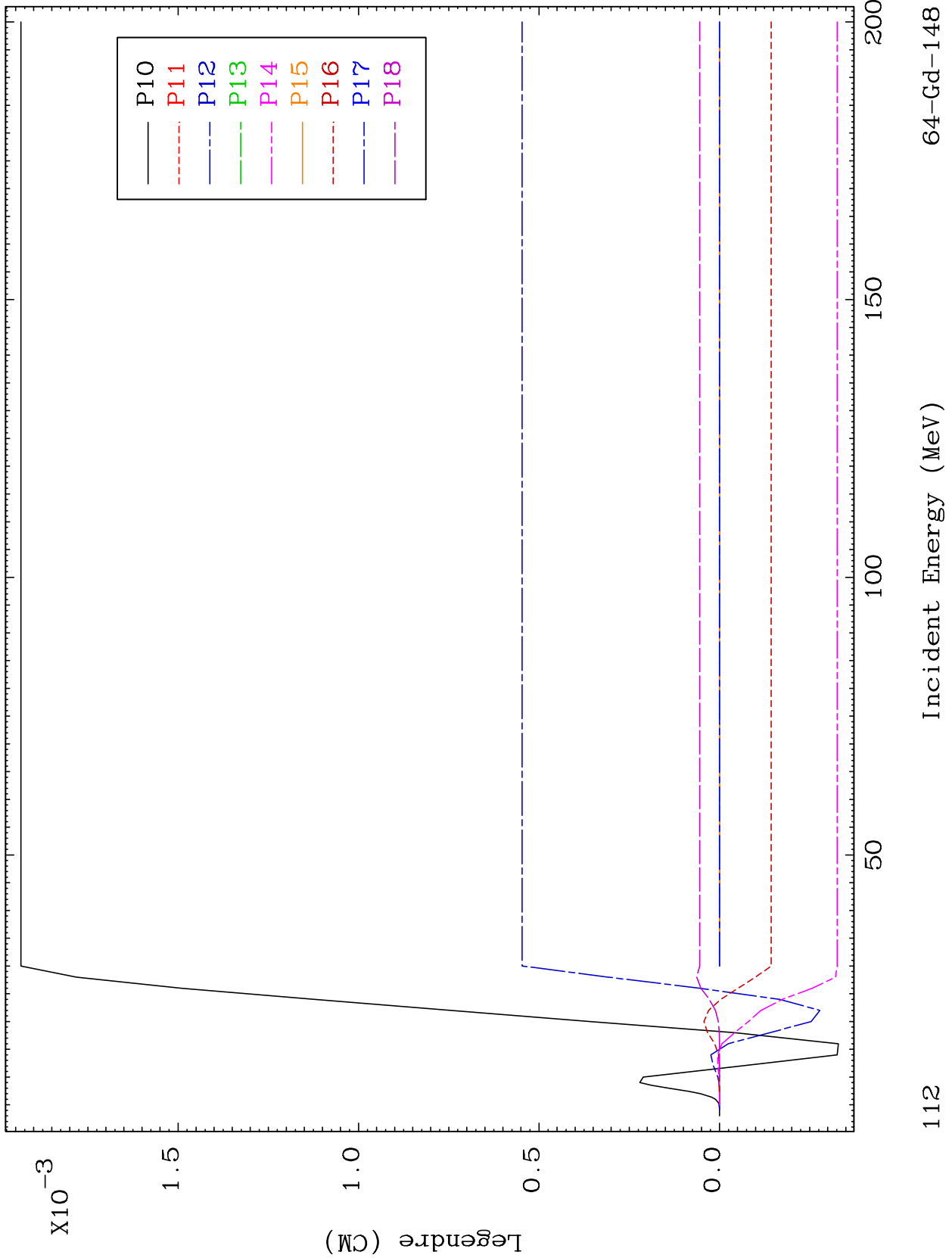
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

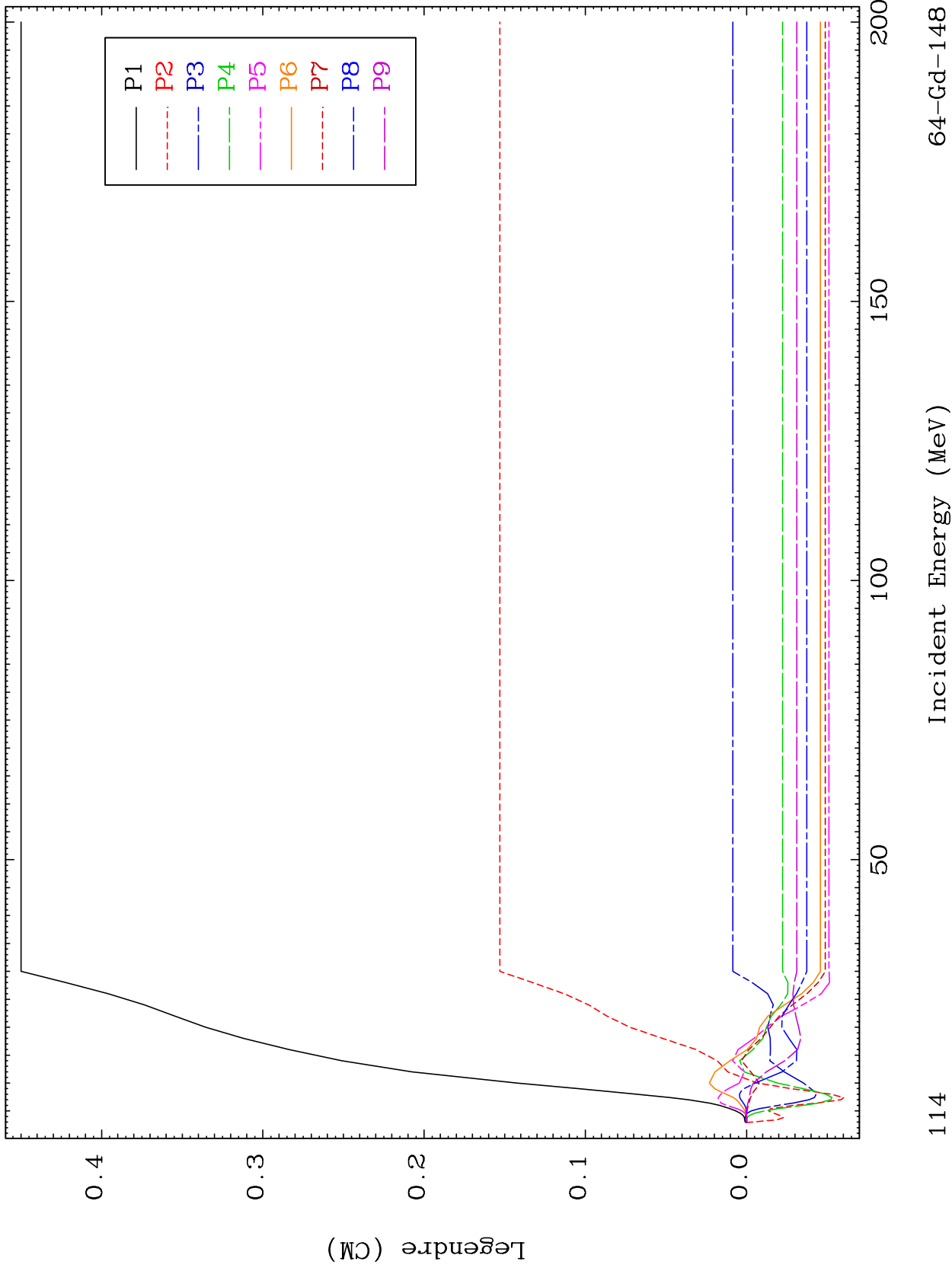
64-Gd-148



MAT 6413

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

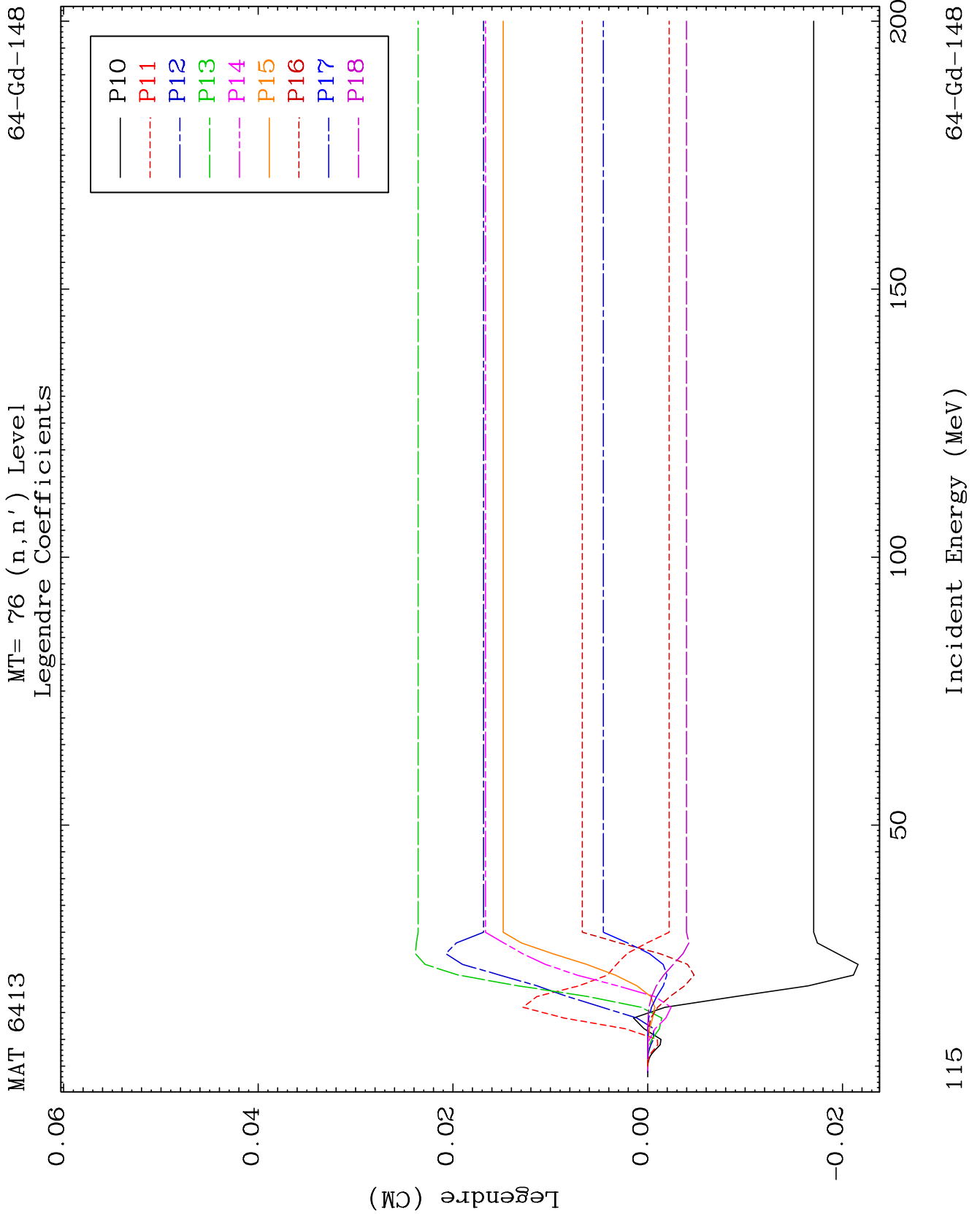
64-Gd-148



114

Incident Energy (MeV)

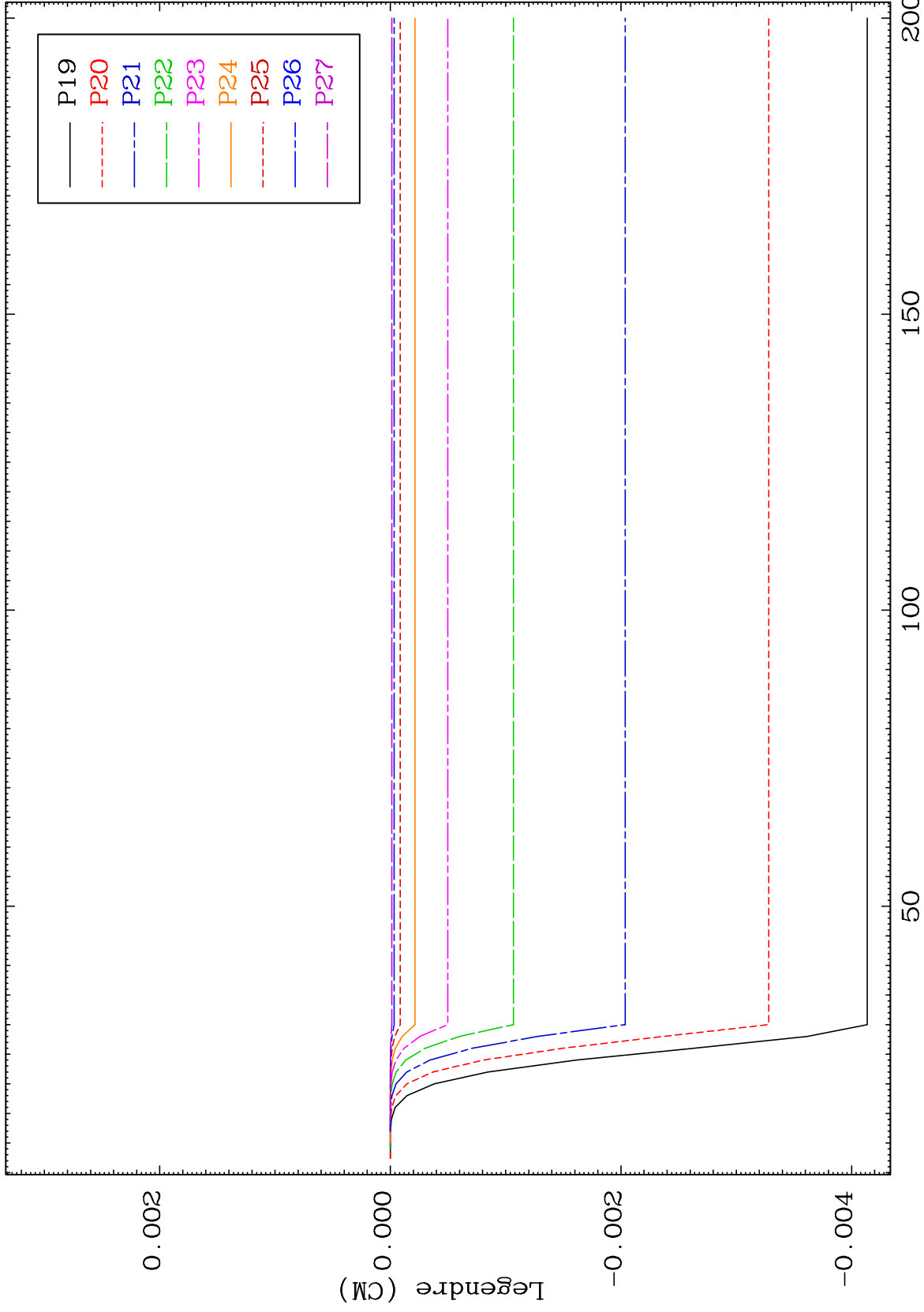
64-Gd-148



MAT 6413

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

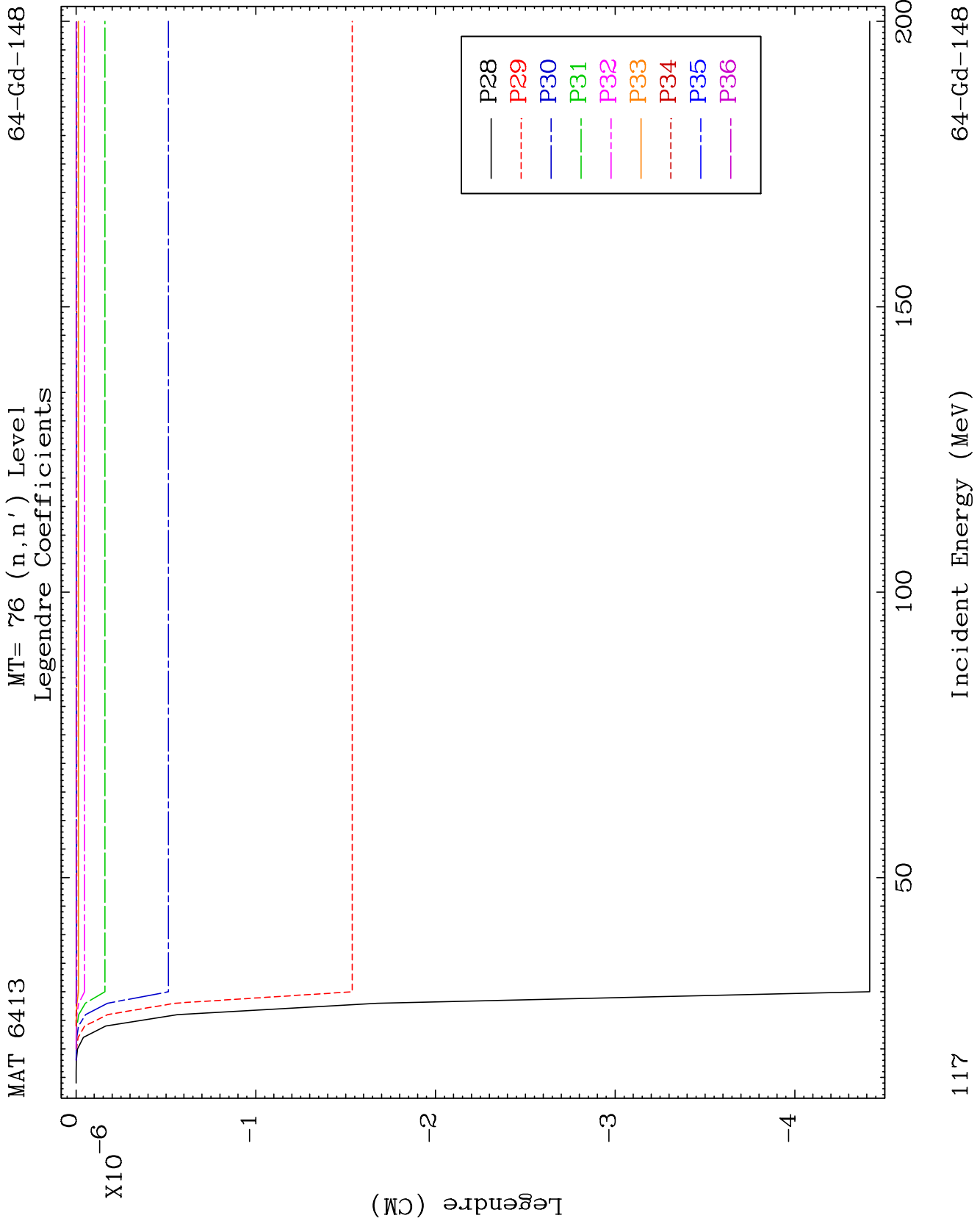
64-Gd-148



116

Incident Energy (MeV)

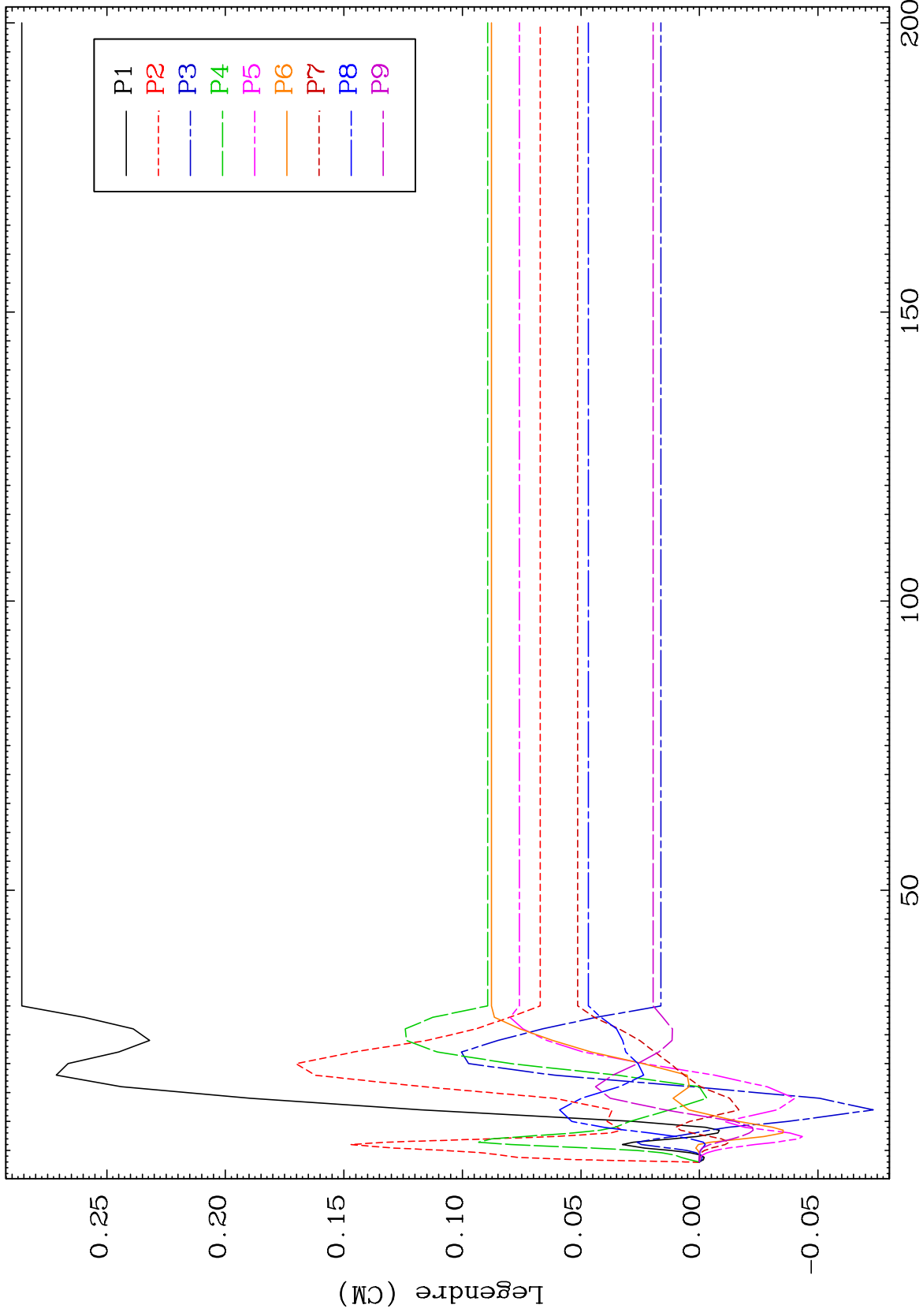
64-Gd-148



MAT 6413

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

64-Gd-148



118

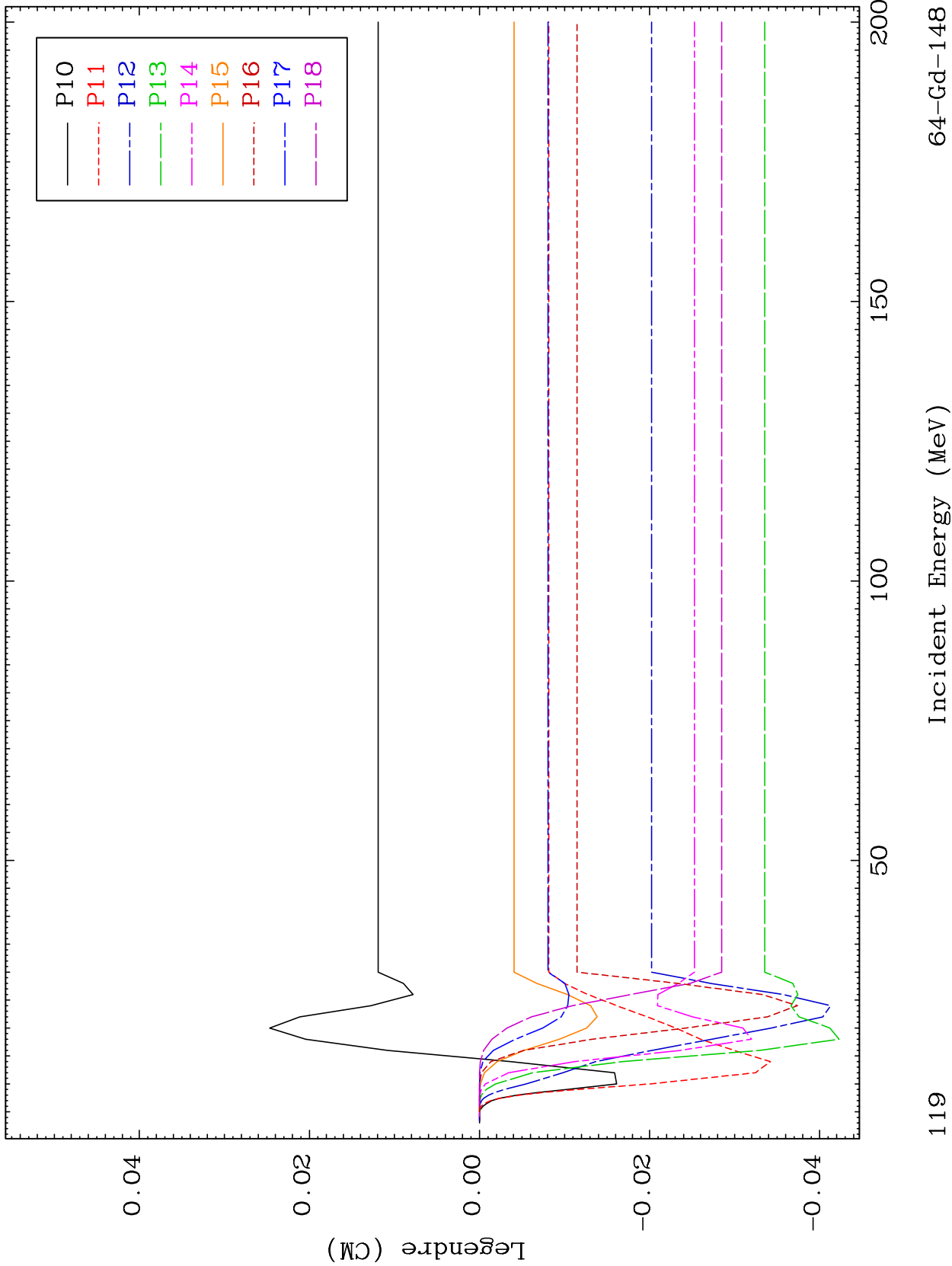
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

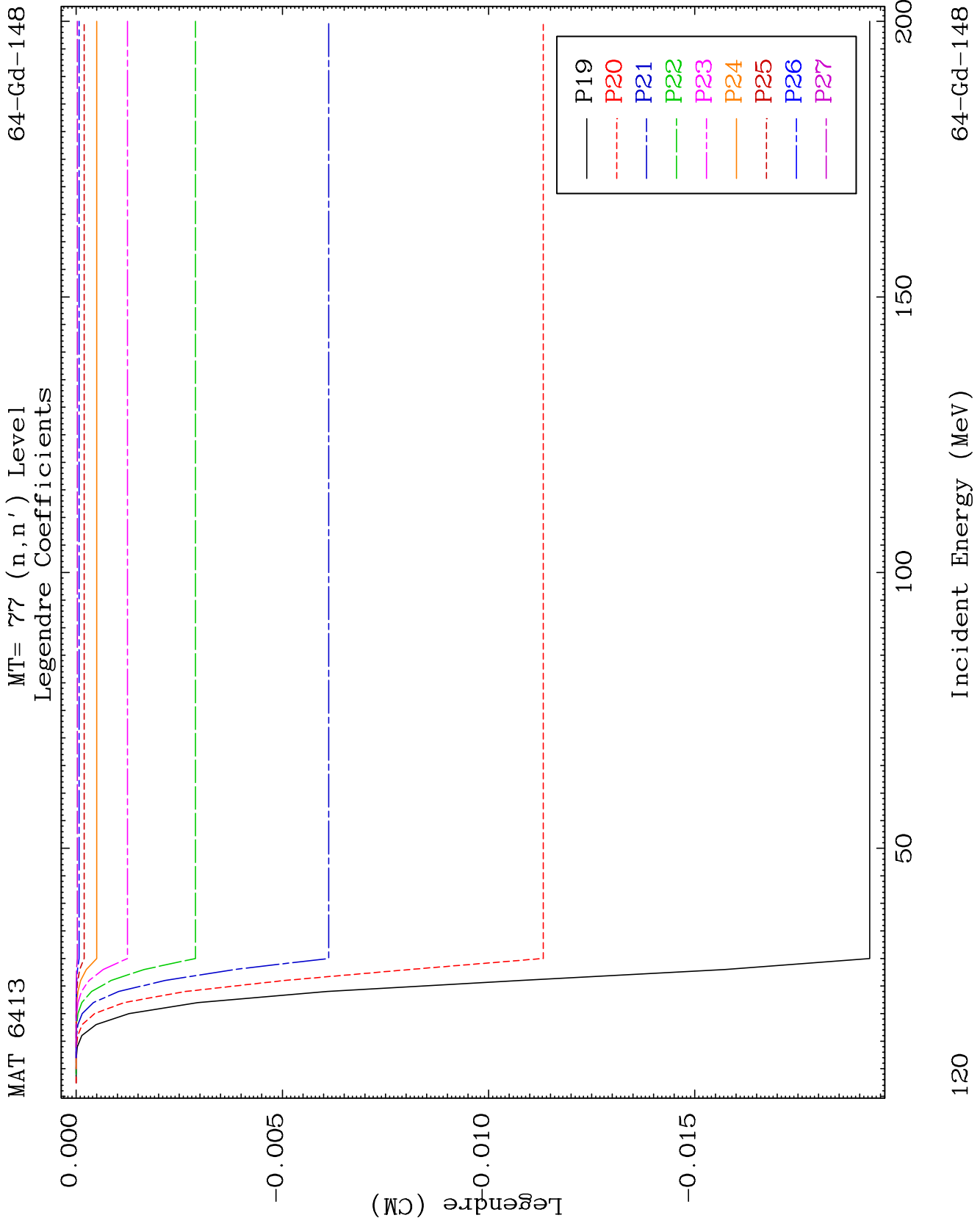
64-Gd-148

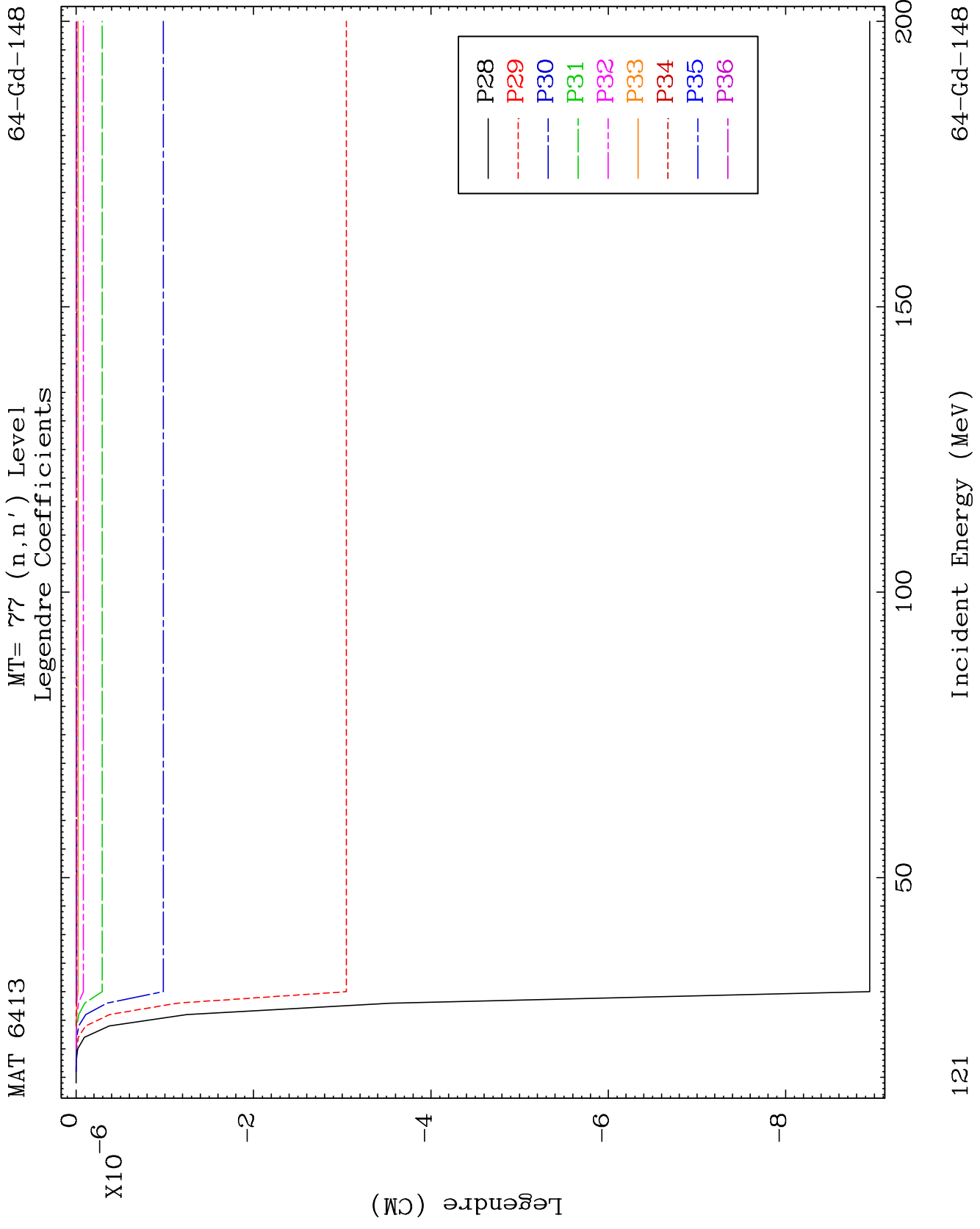


119

Incident Energy (MeV)

64-Gd-148

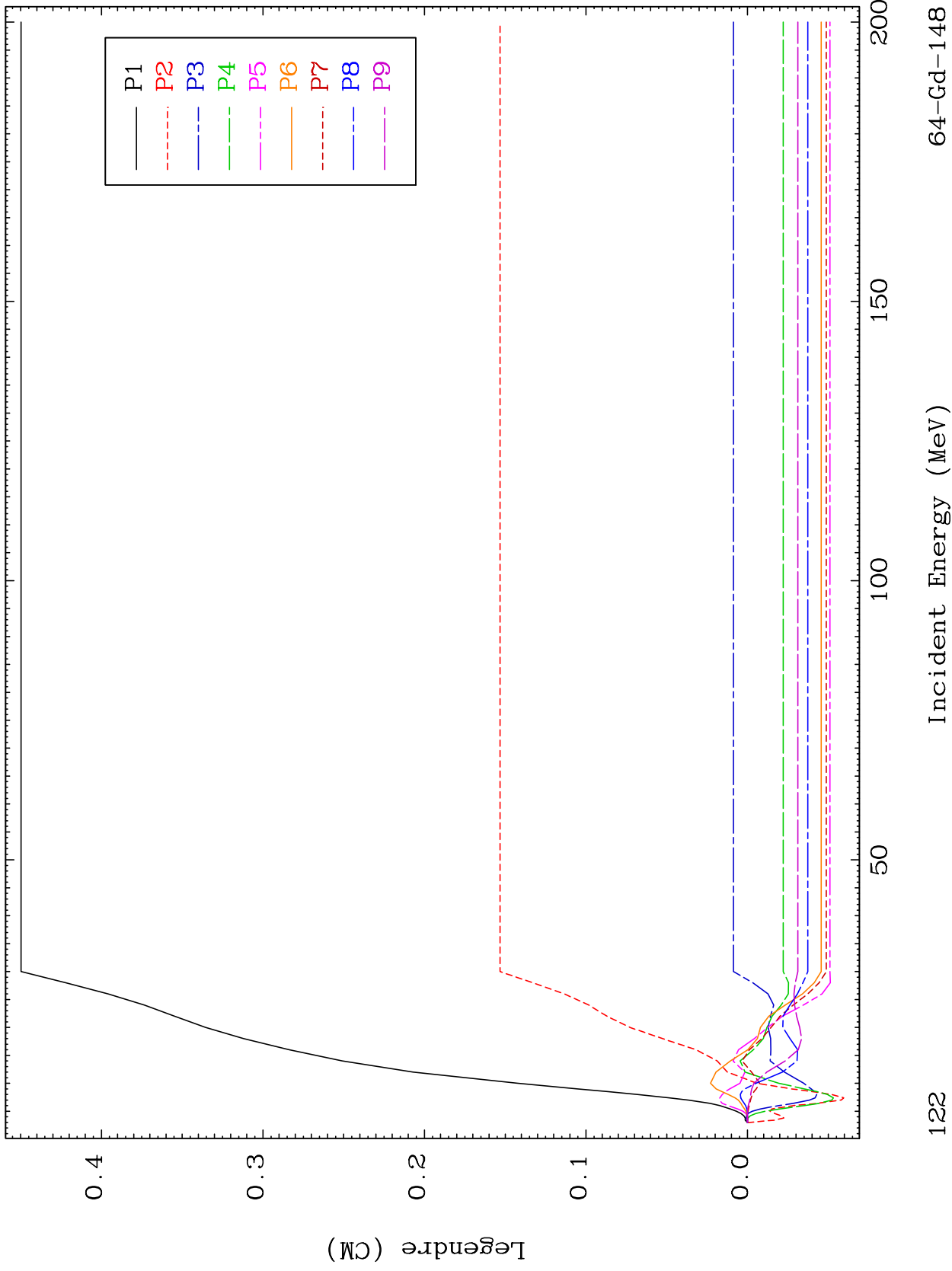




MAT 6413

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

64-Gd-148



122

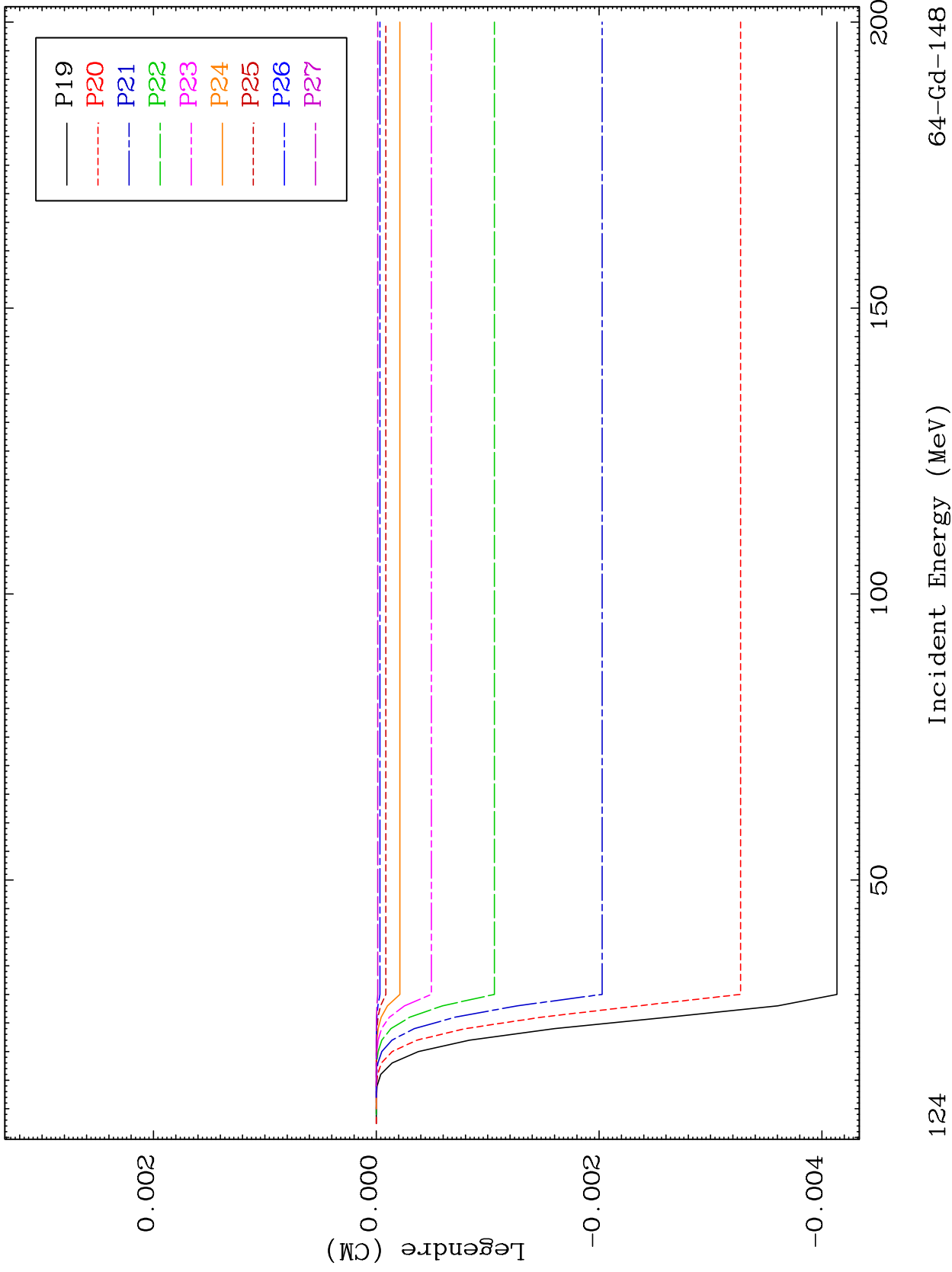
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

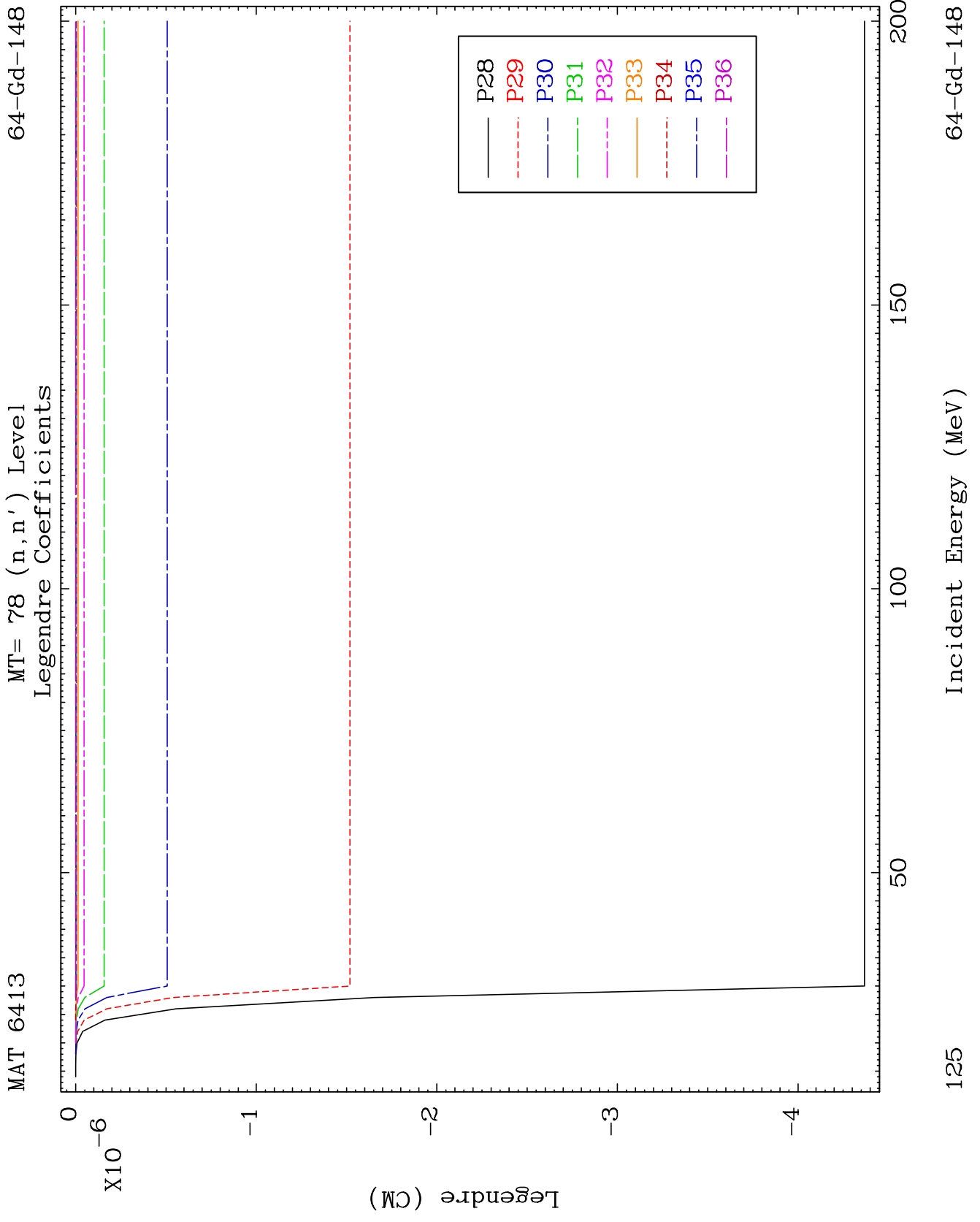
64-Gd-148

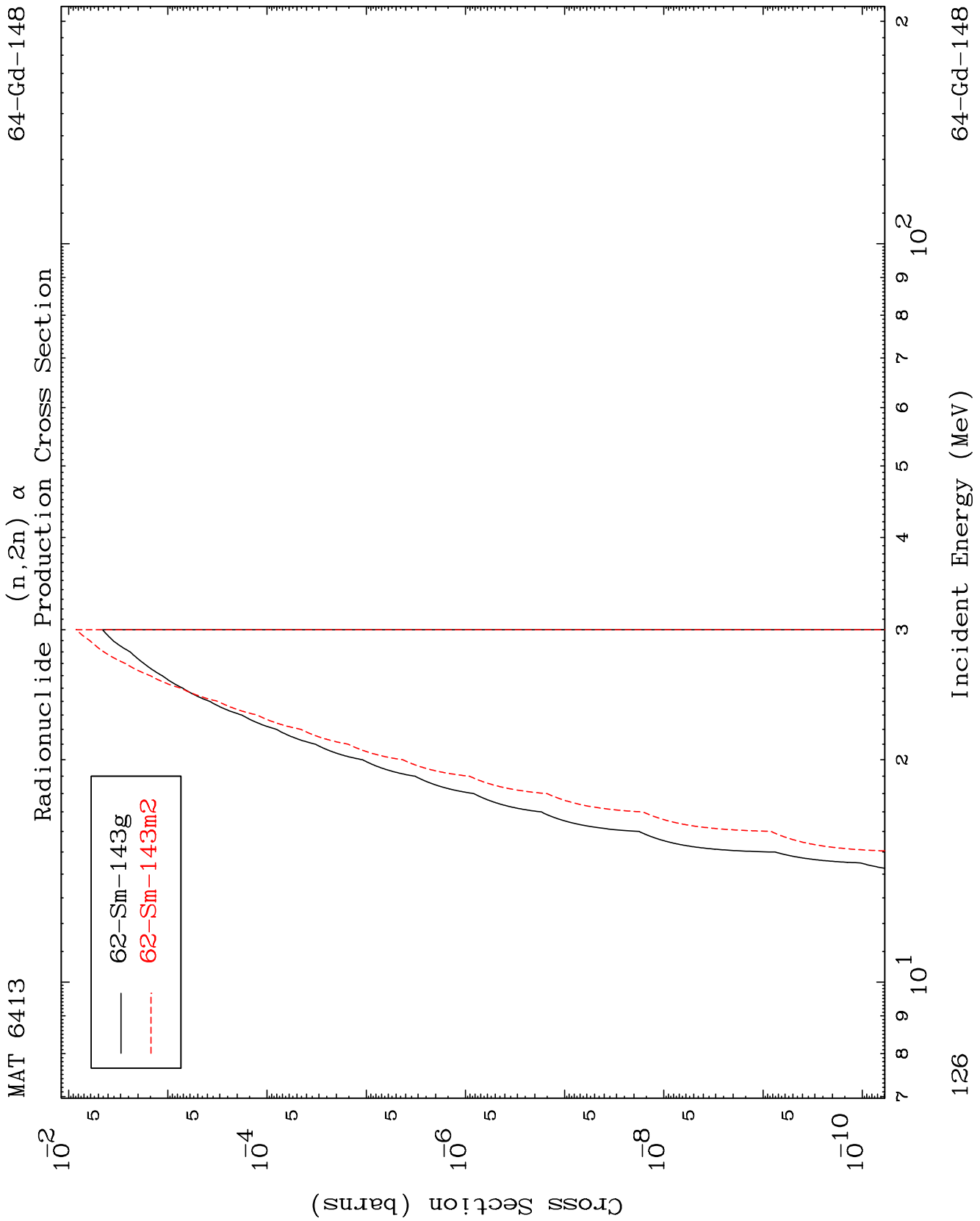


124

Incident Energy (MeV)

64-Gd-148



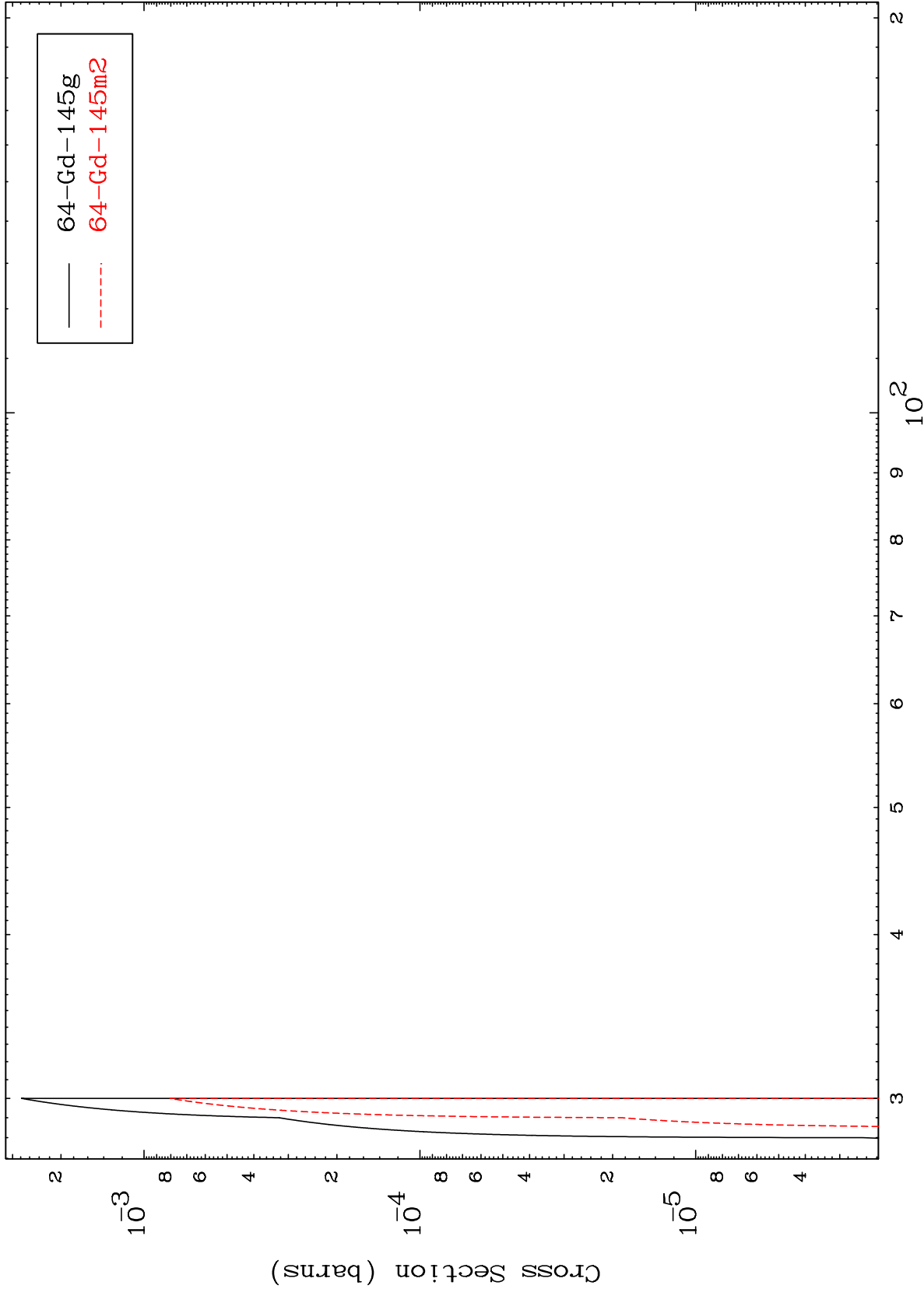


MAT 6413

(n,4n)

64-Gd-148

Radionuclide Production Cross Section



127

Incident Energy (MeV)

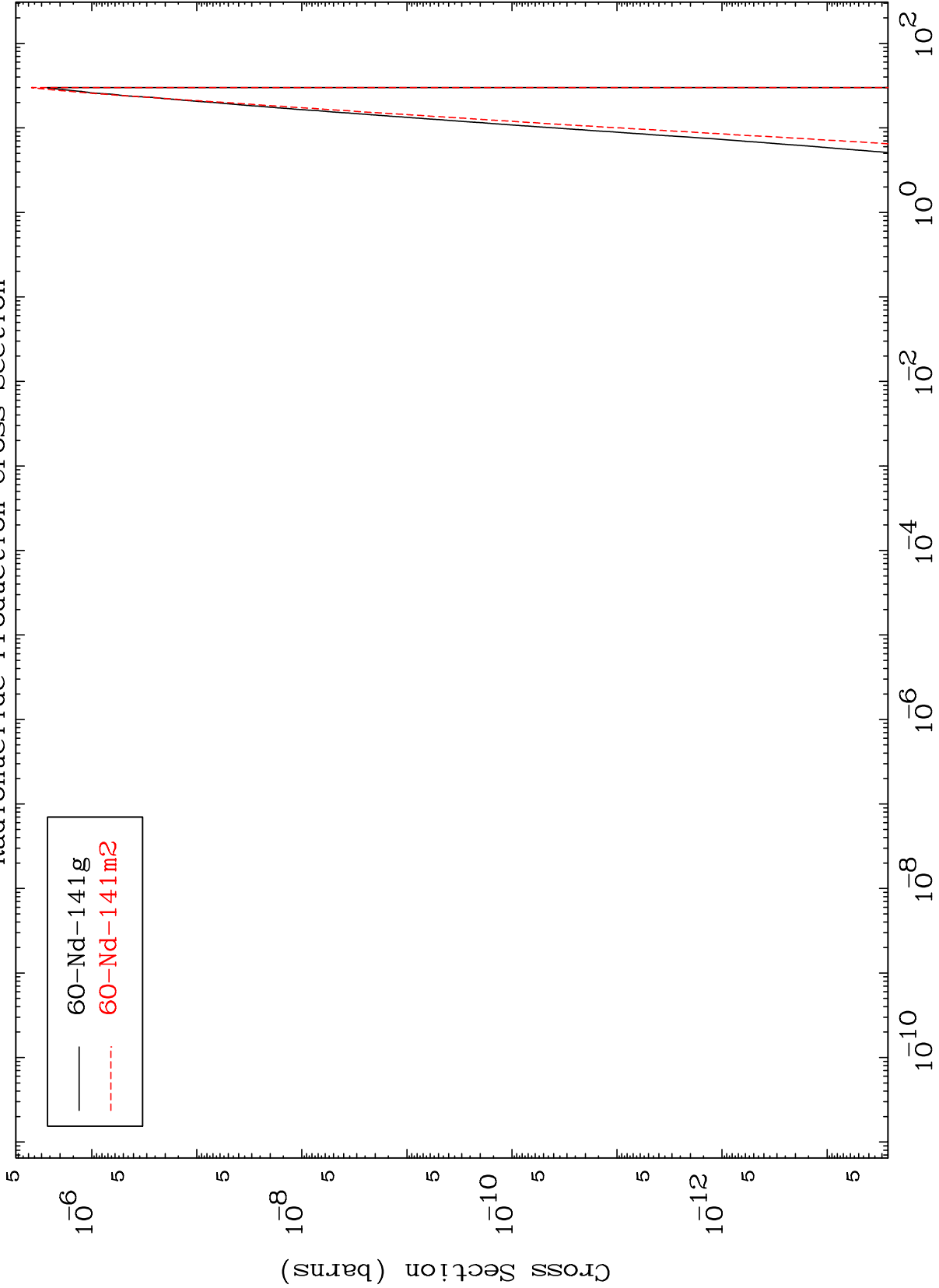
64-Gd-148

MAT 6413

(n,2α)

64-Gd-148

Radionuclide Production Cross Section



60-Nd-141g
60-Nd-141m2