

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

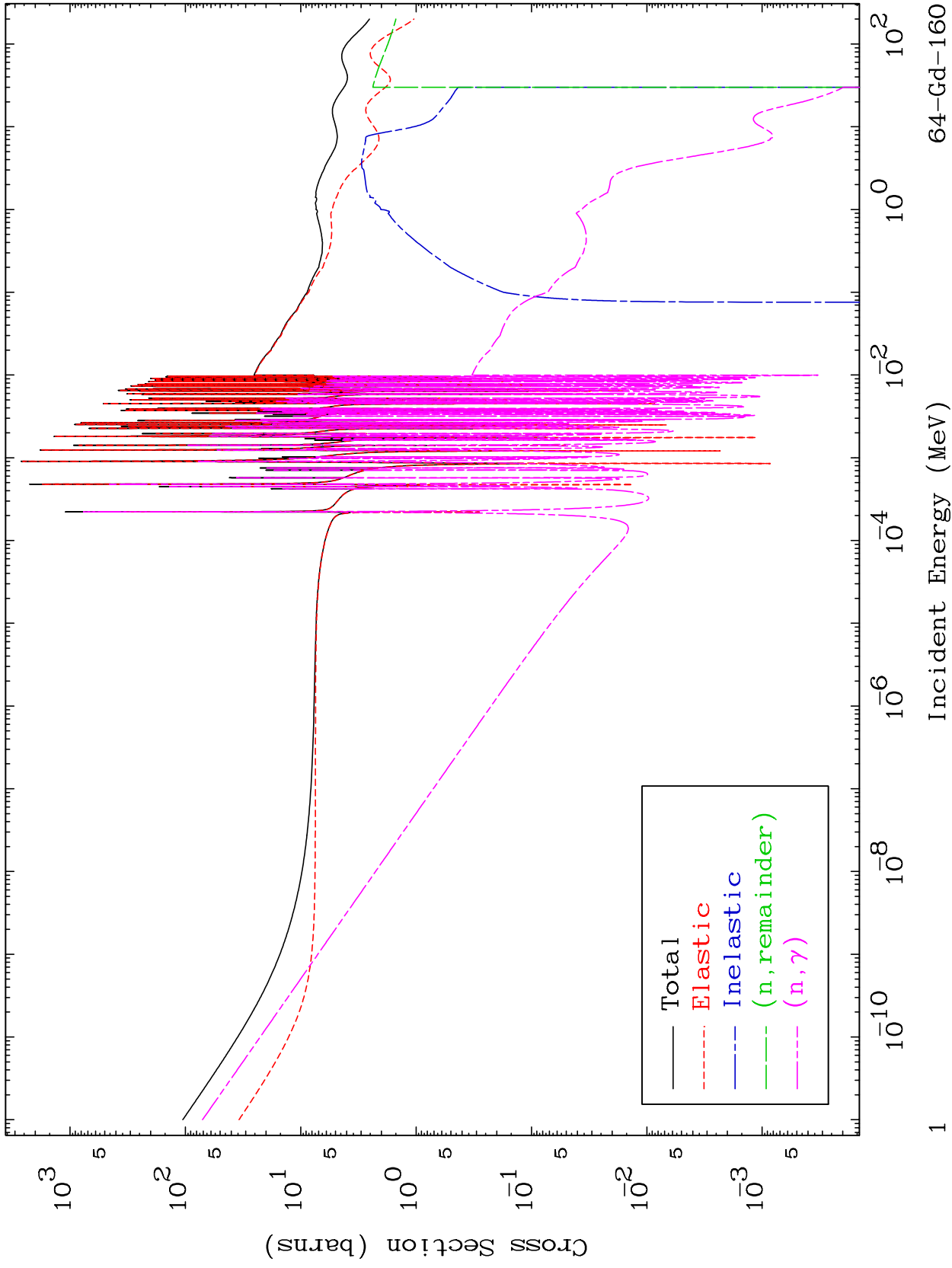
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6449

Major
293 Kelvin Cross Sections

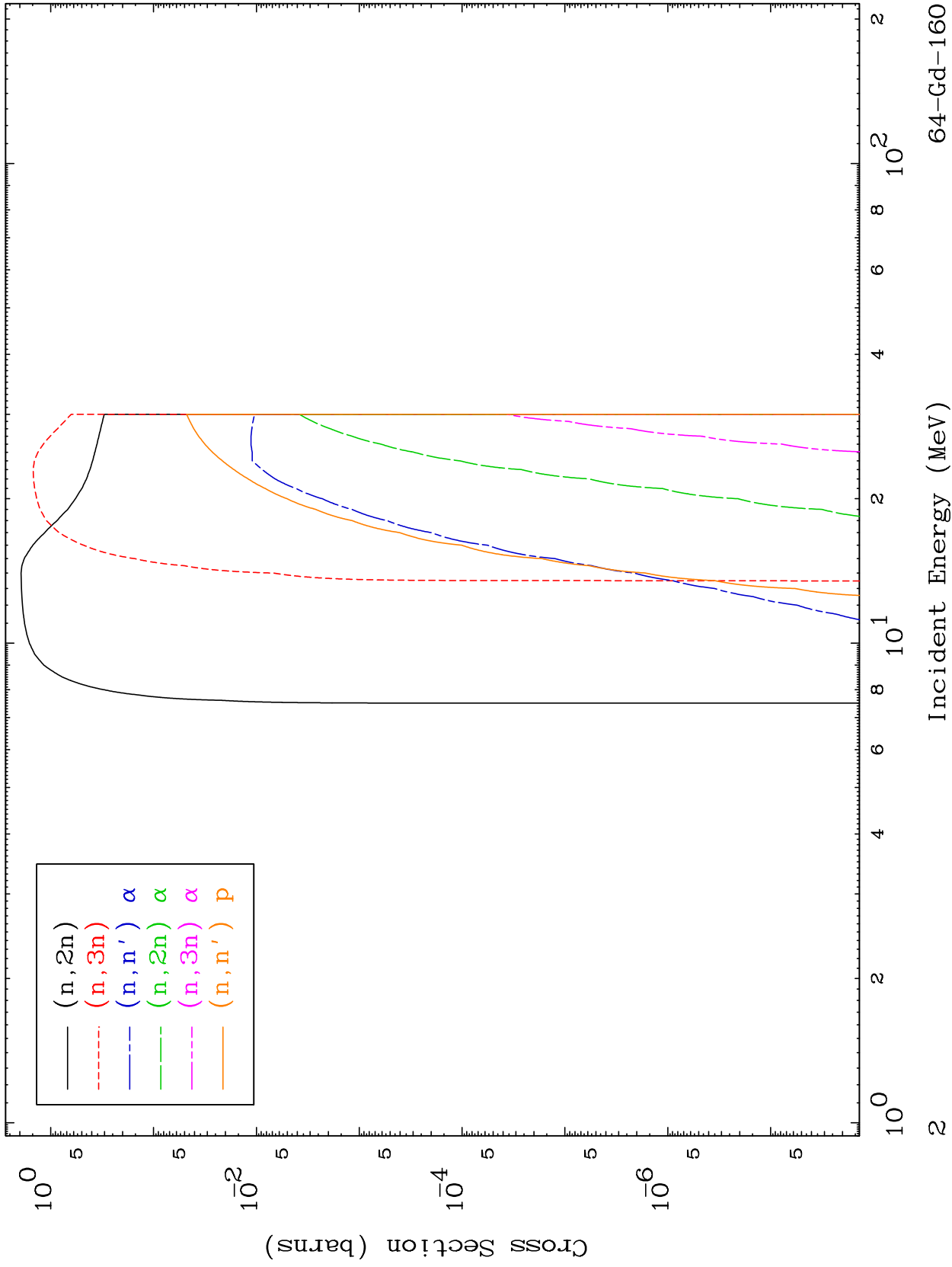
64-Gd-160

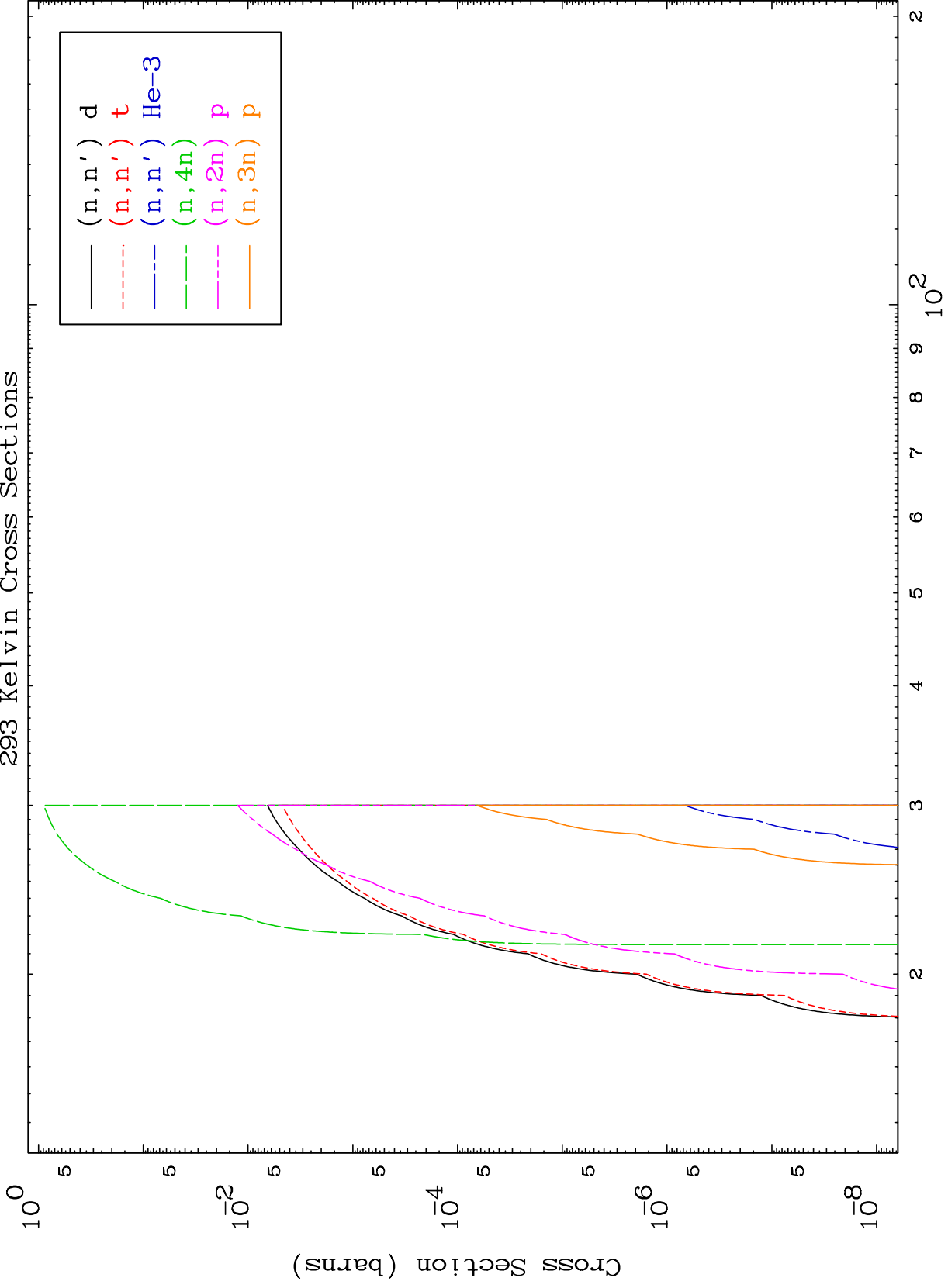


MAT 6449

Neutron Production
293 Kelvin Cross Sections

64-Gd-160

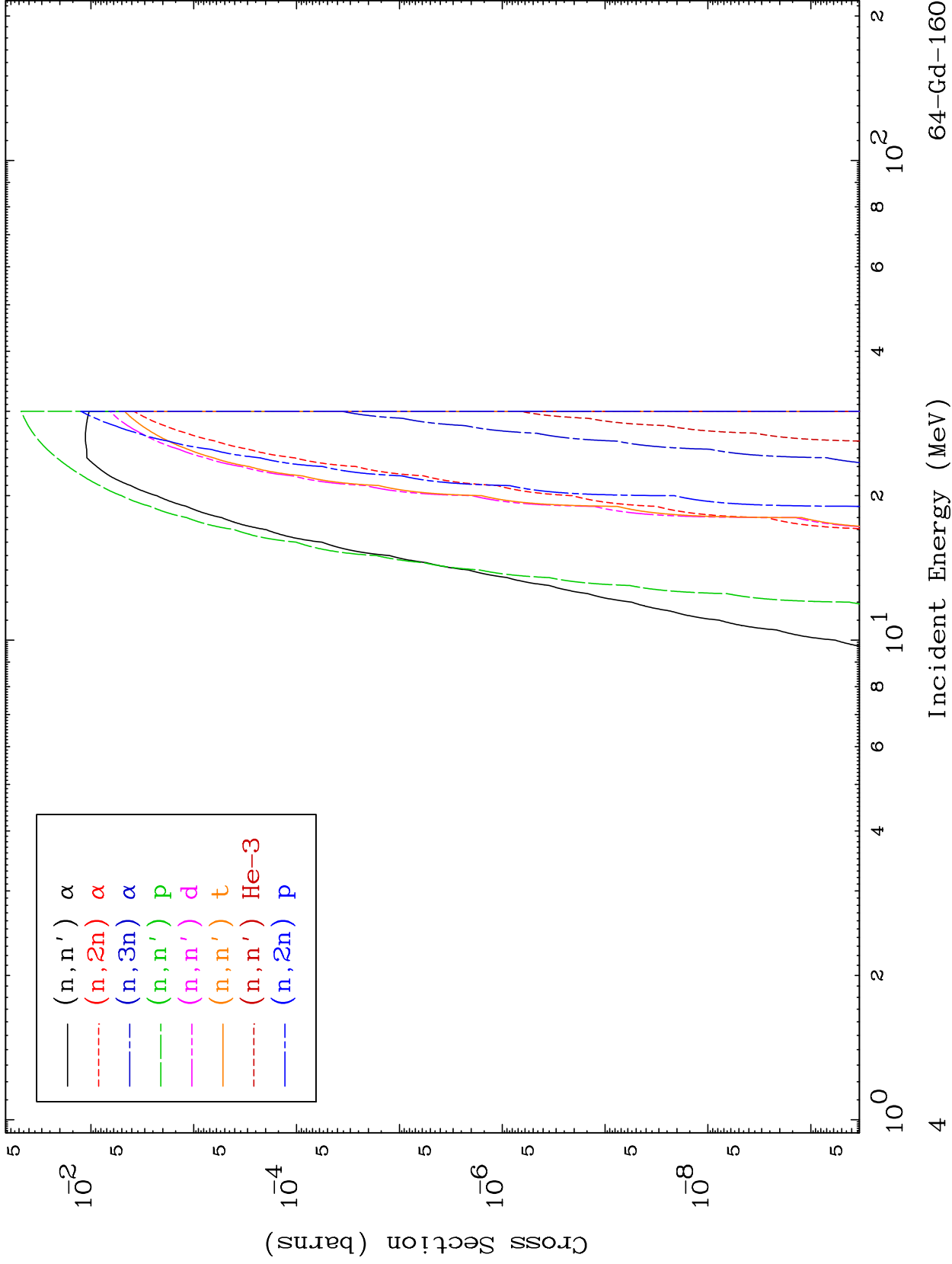




MAT 6449

Charged Particle
293 Kelvin Cross Sections

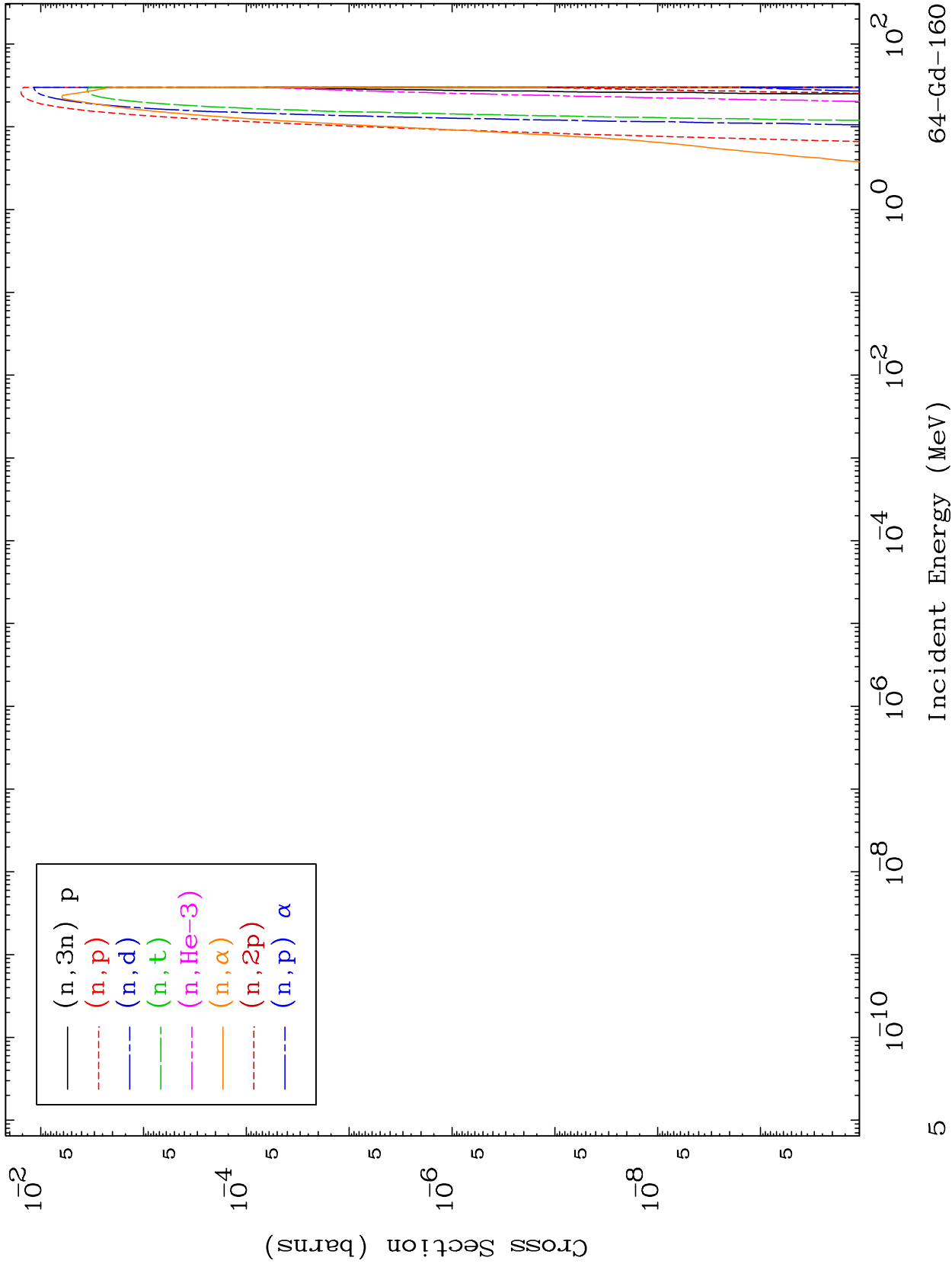
64-Gd-160



MAT 6449

Charged Particle
293 Kelvin Cross Sections

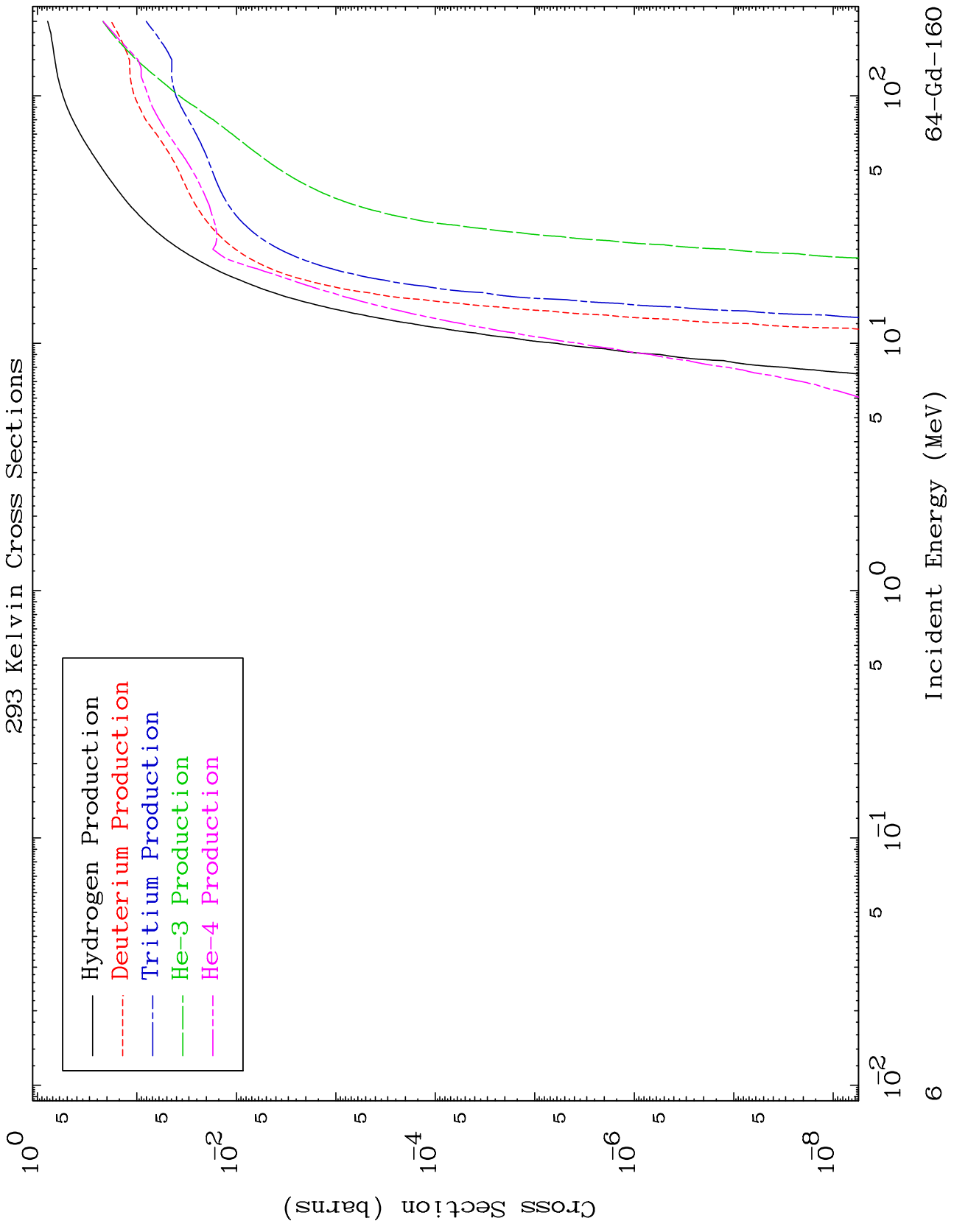
64-Gd-160



MAT 6449

Particle Production
293 Kelvin Cross Sections

64-Gd-160



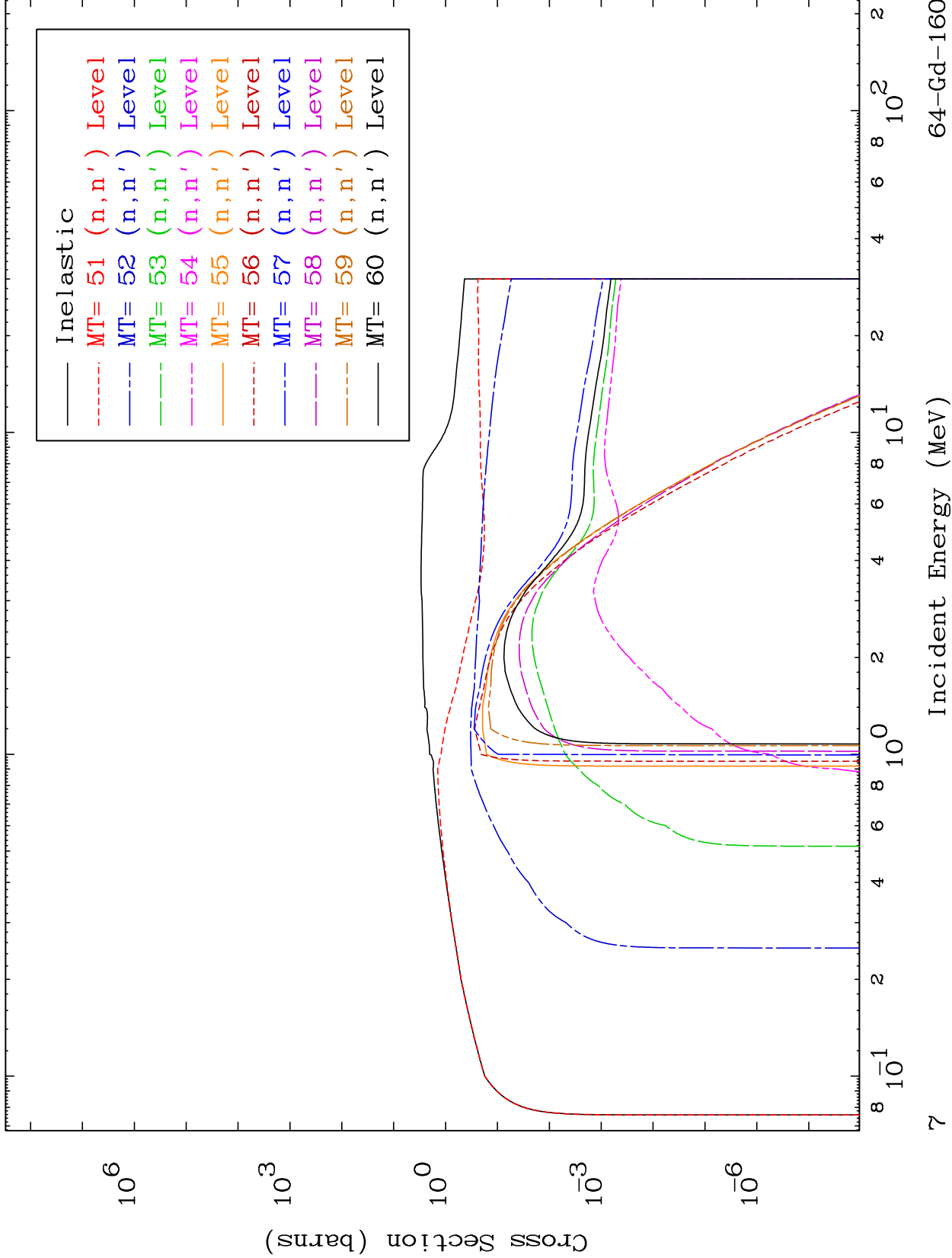
64-Gd-160

MAT 6449

(n,n') Level

64-Gd-160

293 Kelvin Cross Sections



64-Gd-160

Incident Energy (MeV)

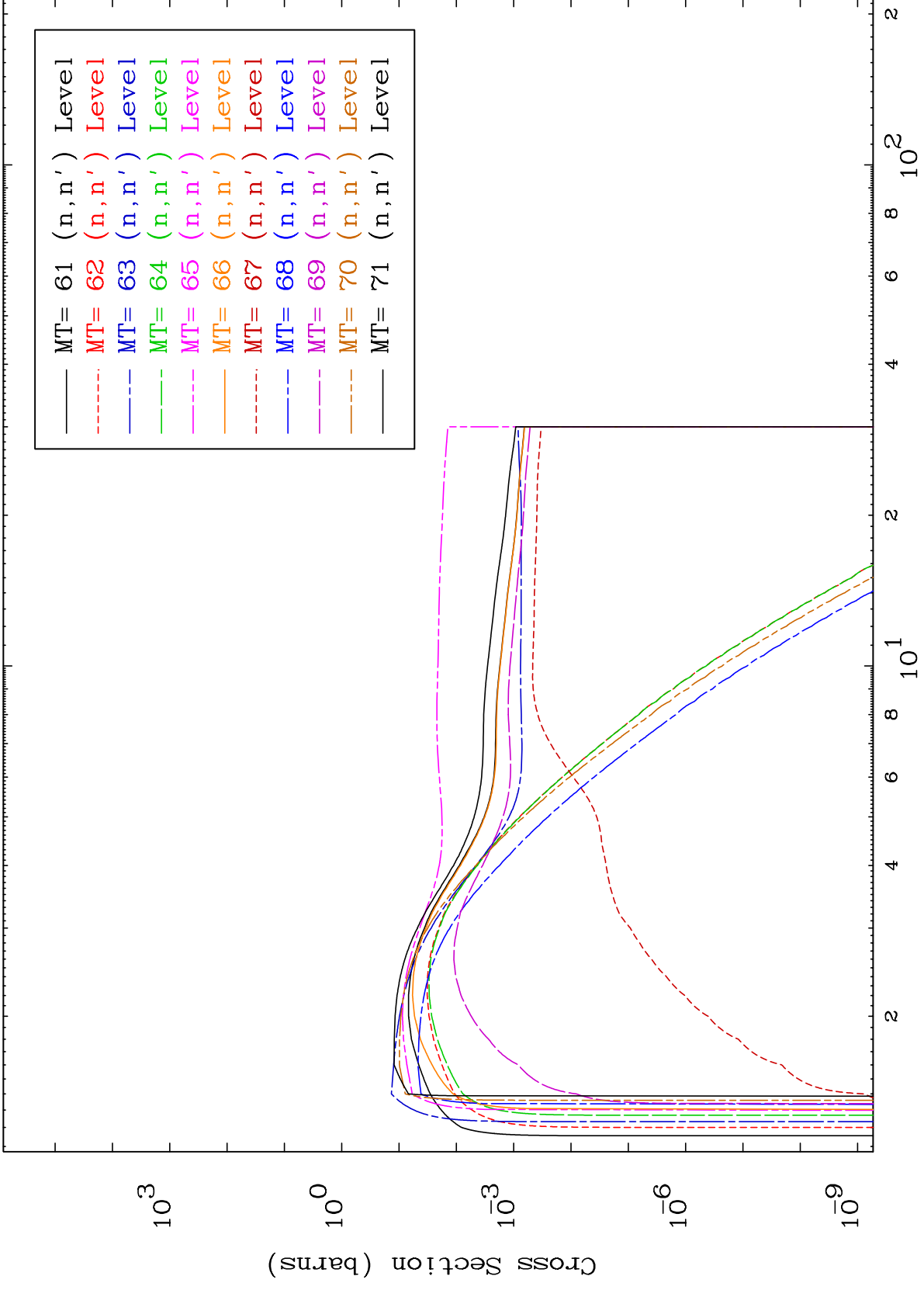
7

MAT 6449

(n,n') Level

64-Gd-160

293 Kelvin Cross Sections

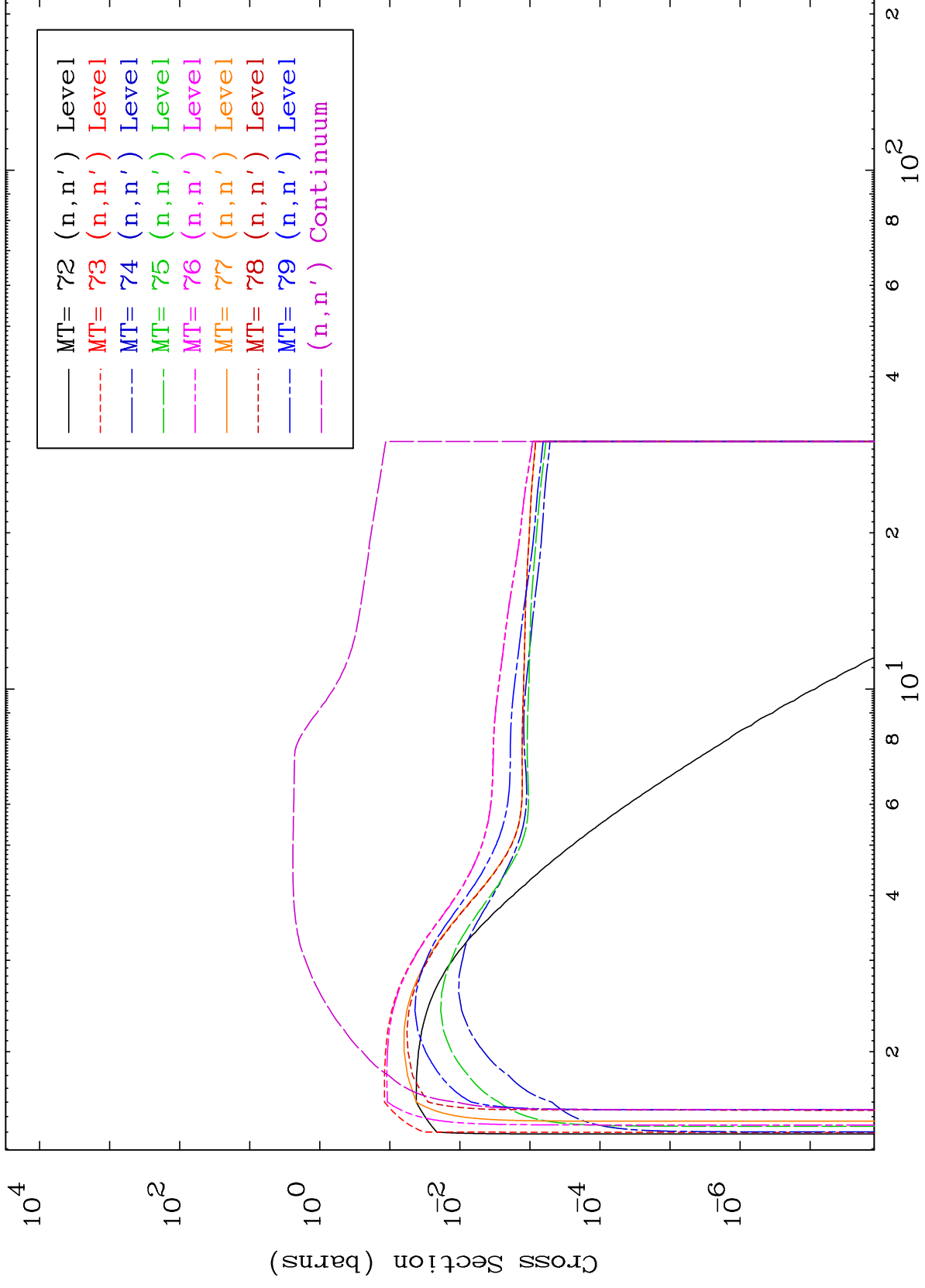


8

Incident Energy (MeV)

64-Gd-160

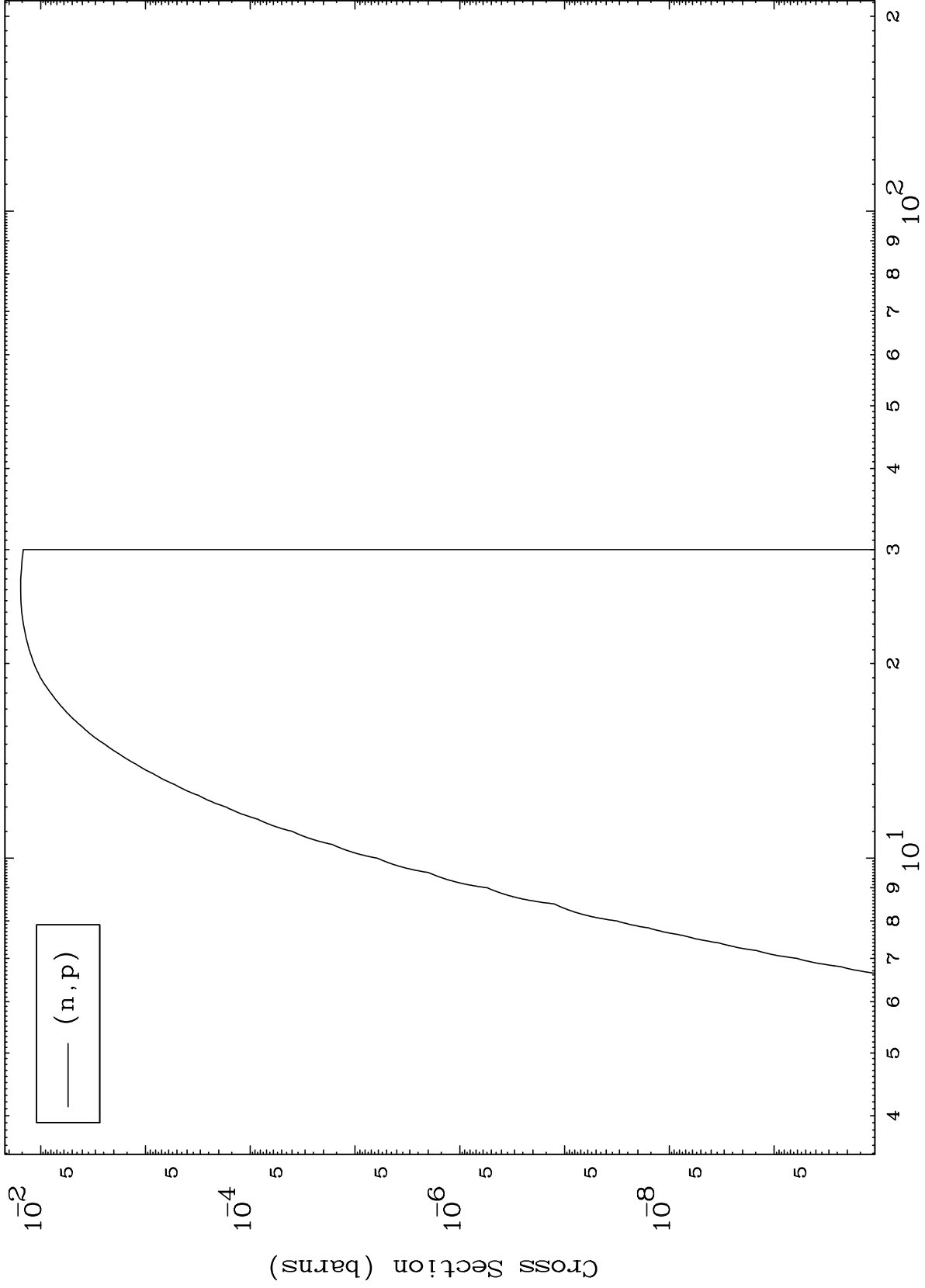
293 Kelvin Cross Sections



MAT 6449

(n,p) Levels
293 Kelvin Cross Sections

64-Gd-160



10

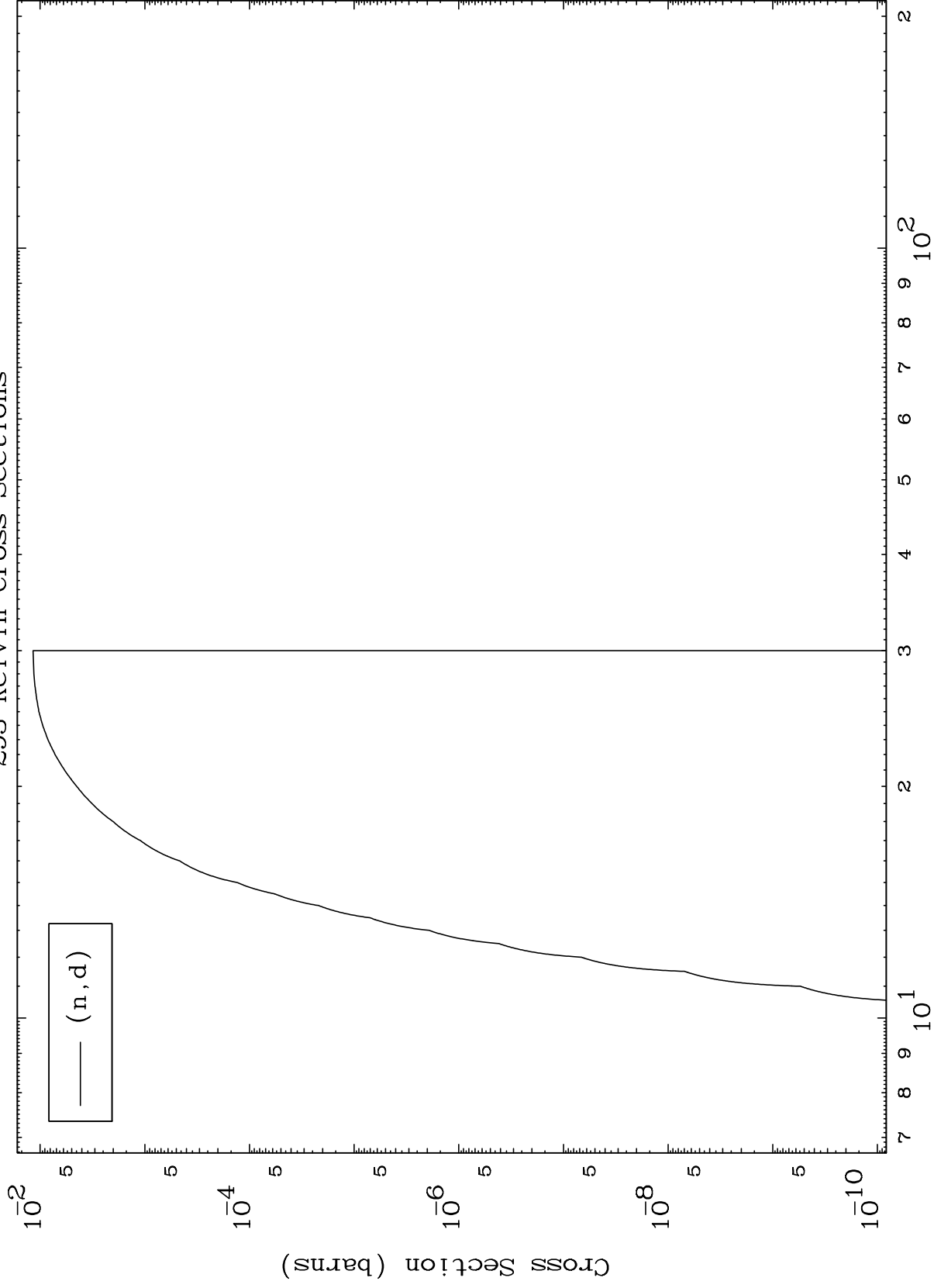
Incident Energy (MeV)

64-Gd-160

MAT 6449

(n,d) Levels
293 Kelvin Cross Sections

64-Gd-160



11

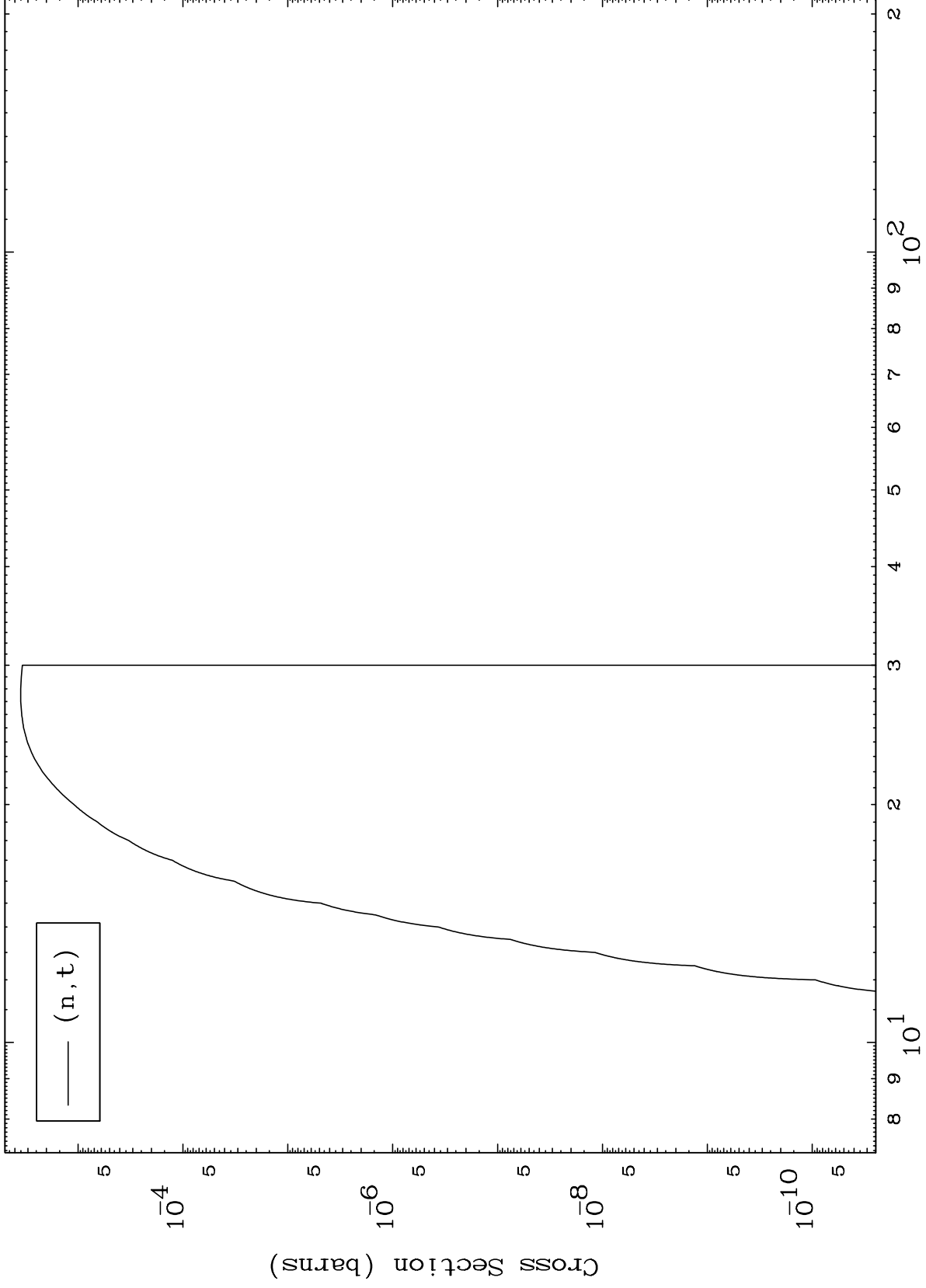
Incident Energy (MeV)

64-Gd-160

MAT 6449

(n,t) Levels
293 Kelvin Cross Sections

64-Gd-160



12

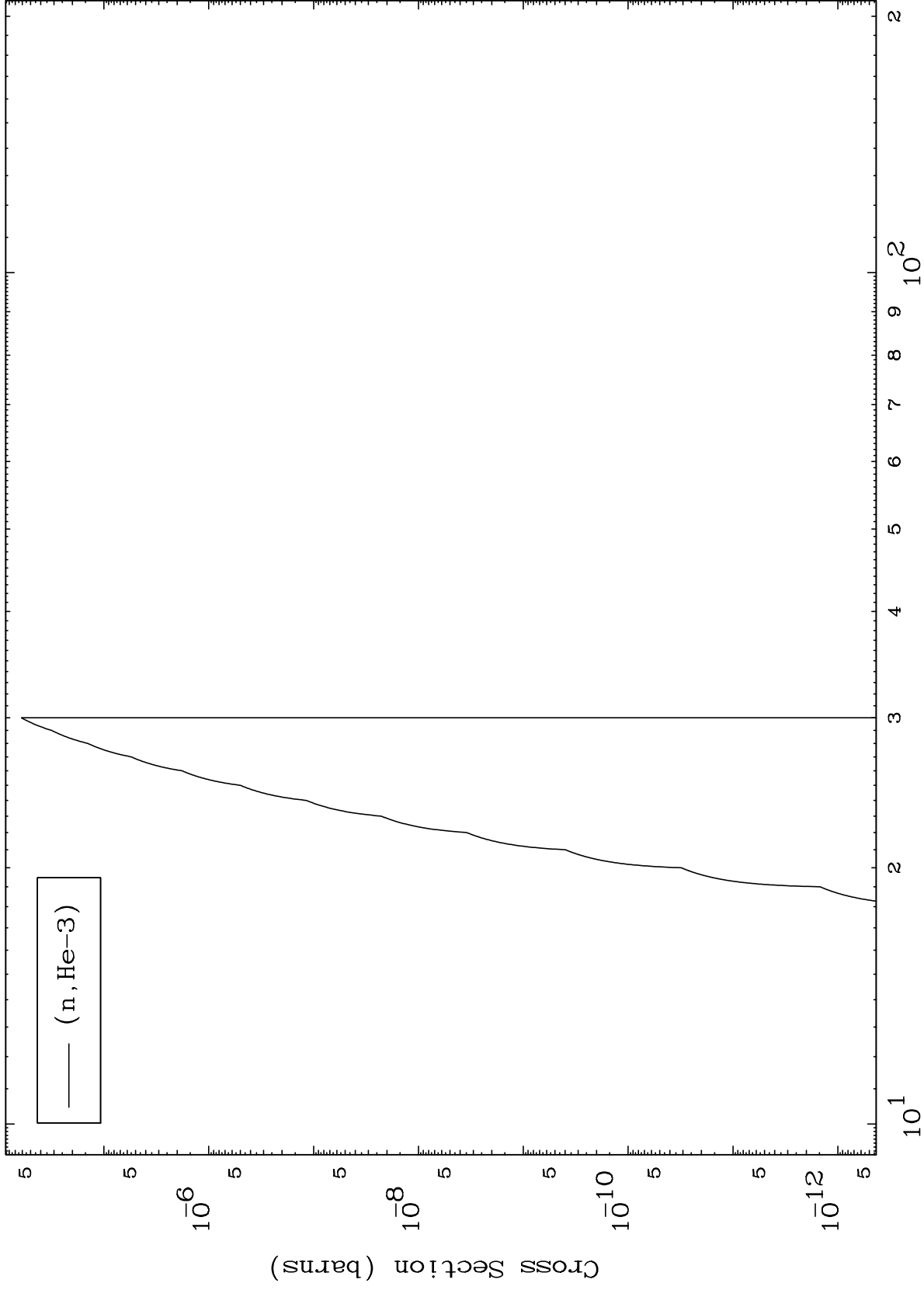
Incident Energy (MeV)

64-Gd-160

MAT 6449

(n,He3) Levels
293 Kelvin Cross Sections

64-Gd-160



13

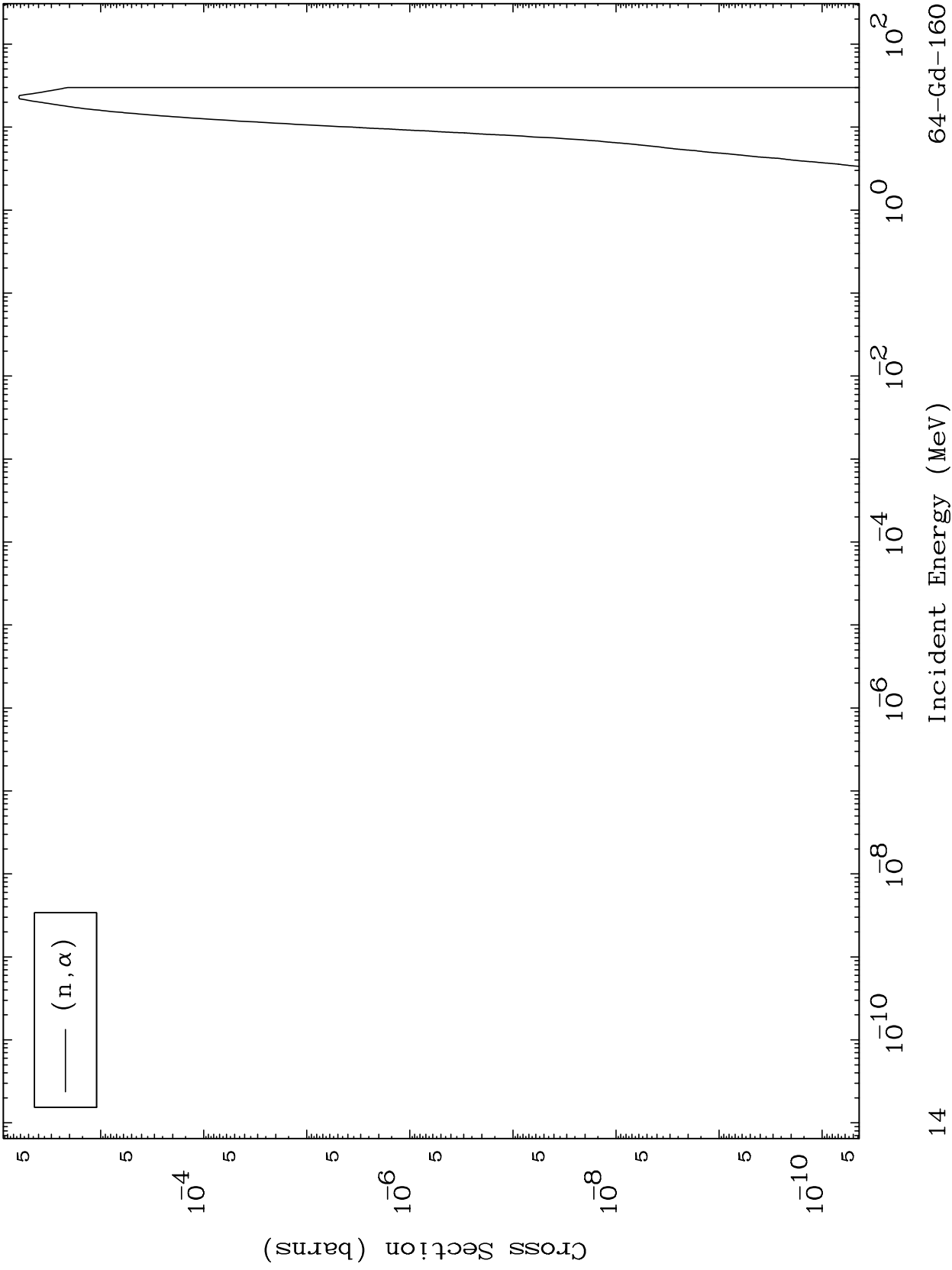
Incident Energy (MeV)

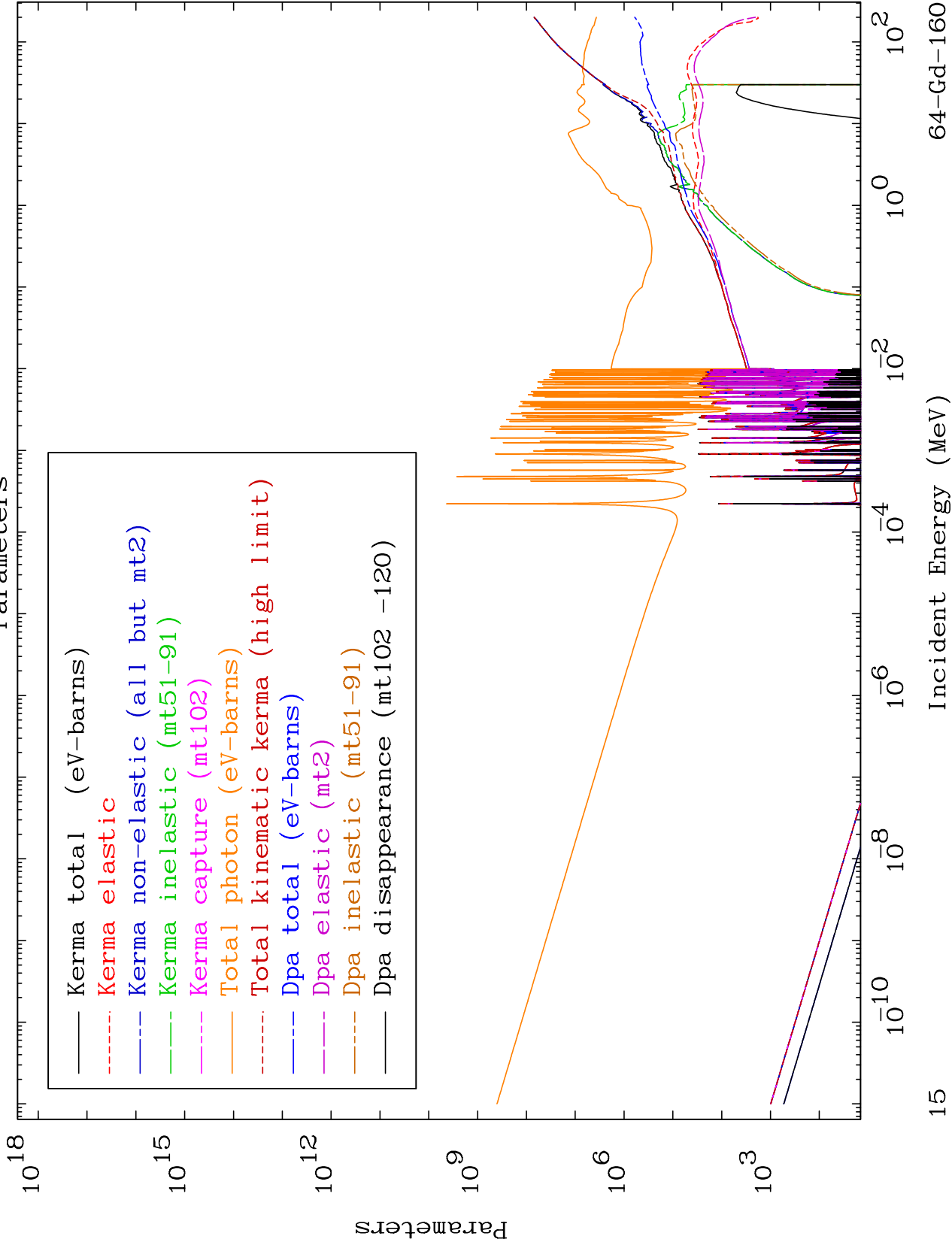
64-Gd-160

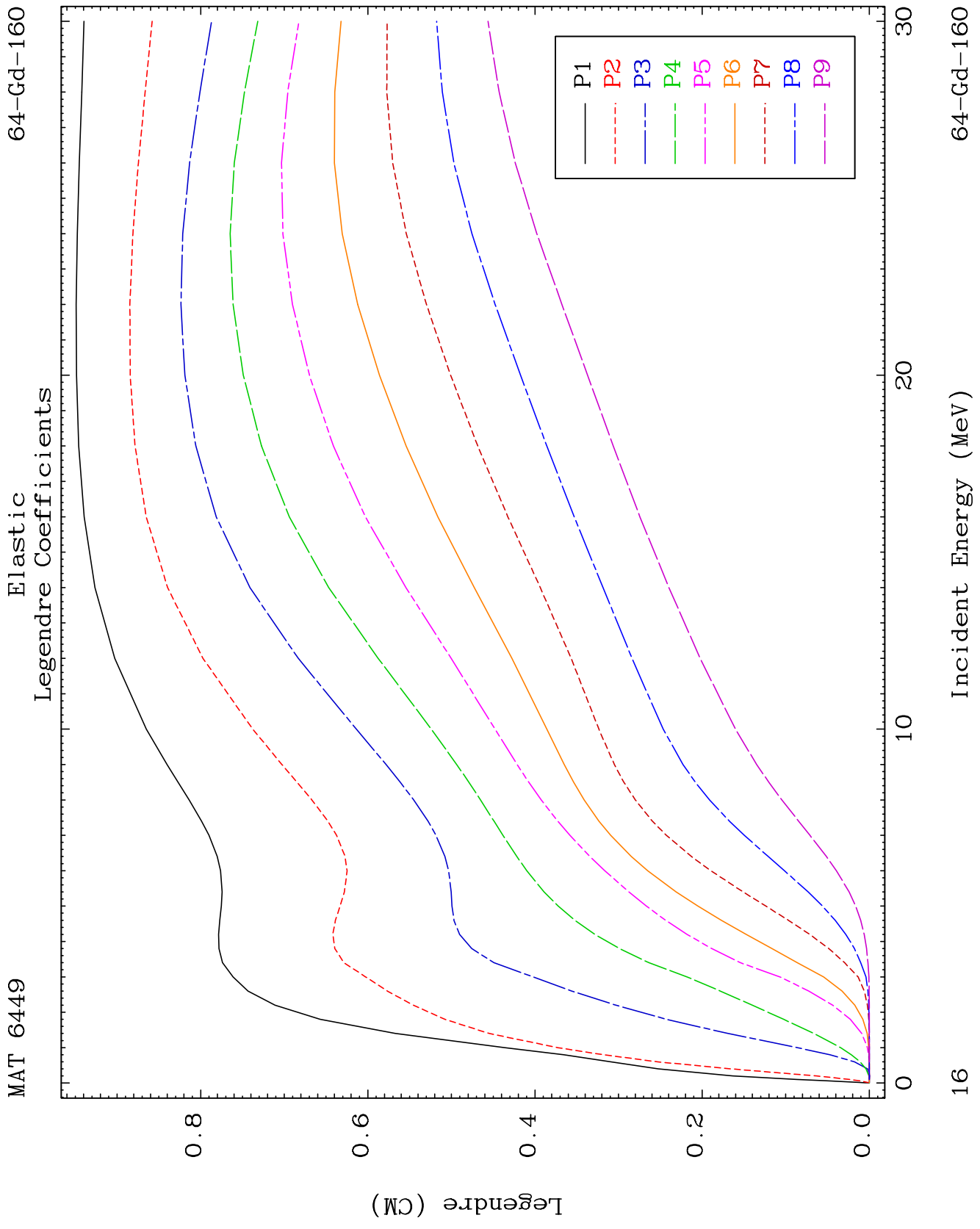
MAT 6449

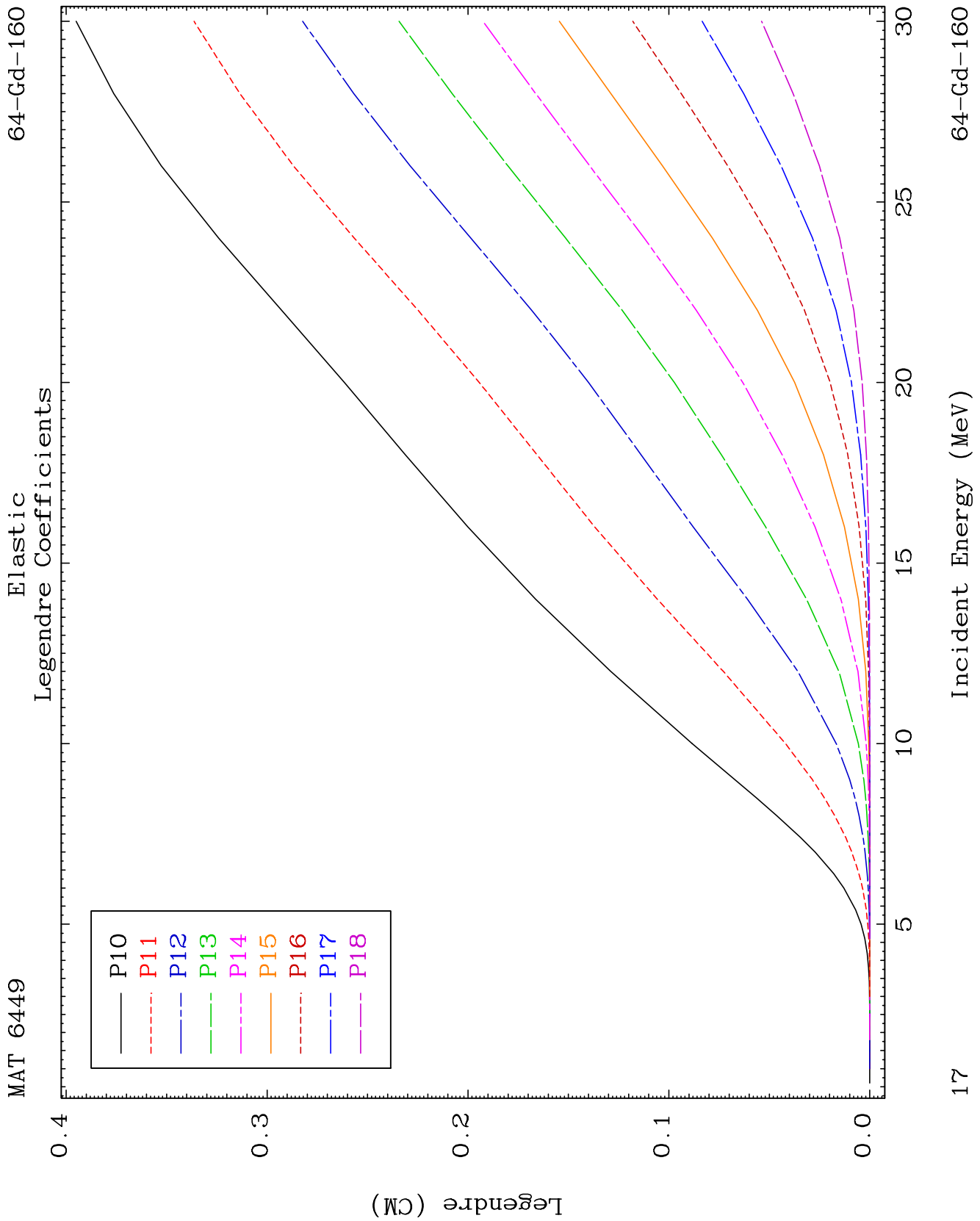
(n, α) Levels
293 Kelvin Cross Sections

64-Gd-160









MAT 6449

Elastic Legendre Coefficients

$^{64}\text{Gd-160}$

17

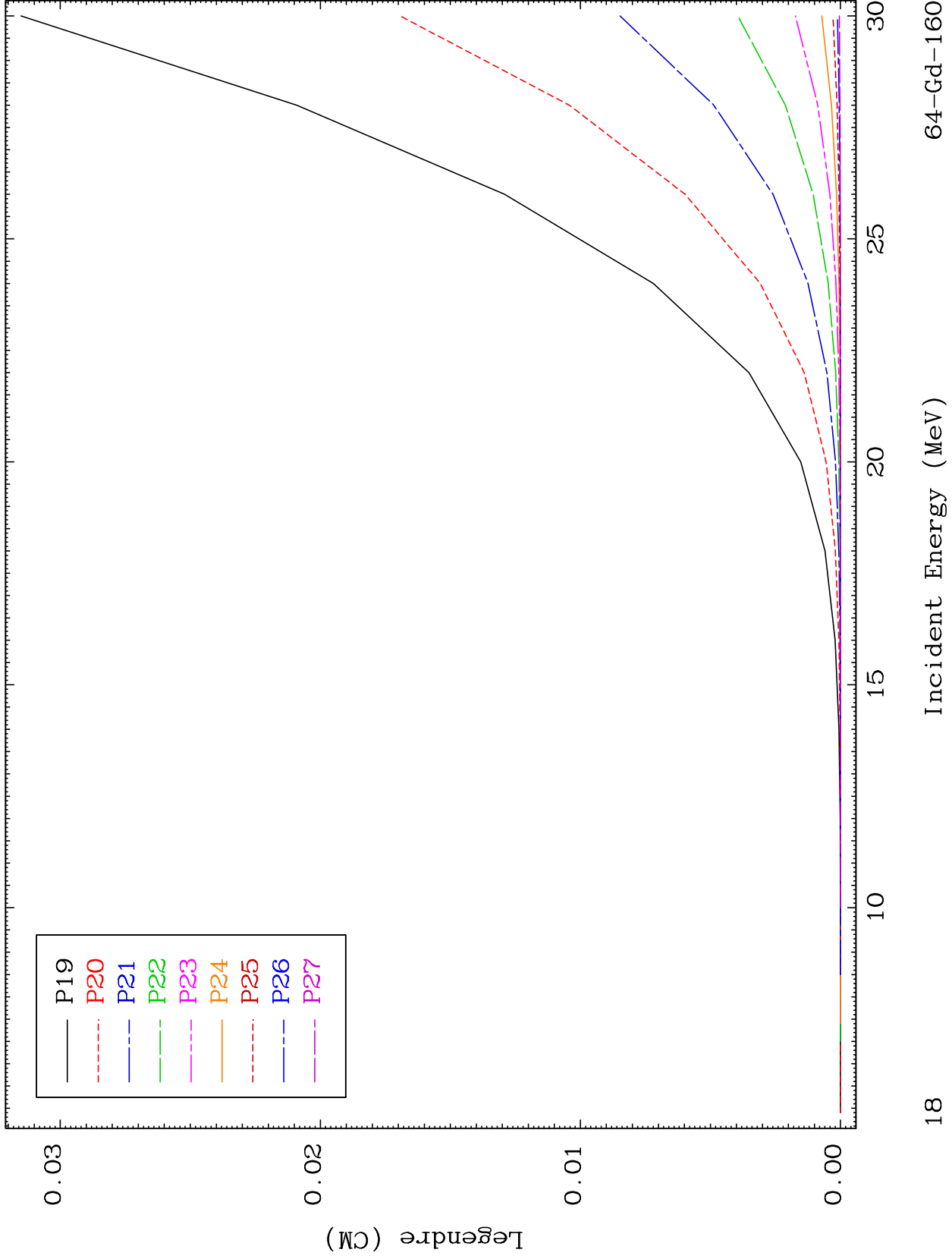
Incident Energy (MeV)

$^{64}\text{Gd-160}$

MAT 6449

Elastic Legendre Coefficients

64-Gd-160



18

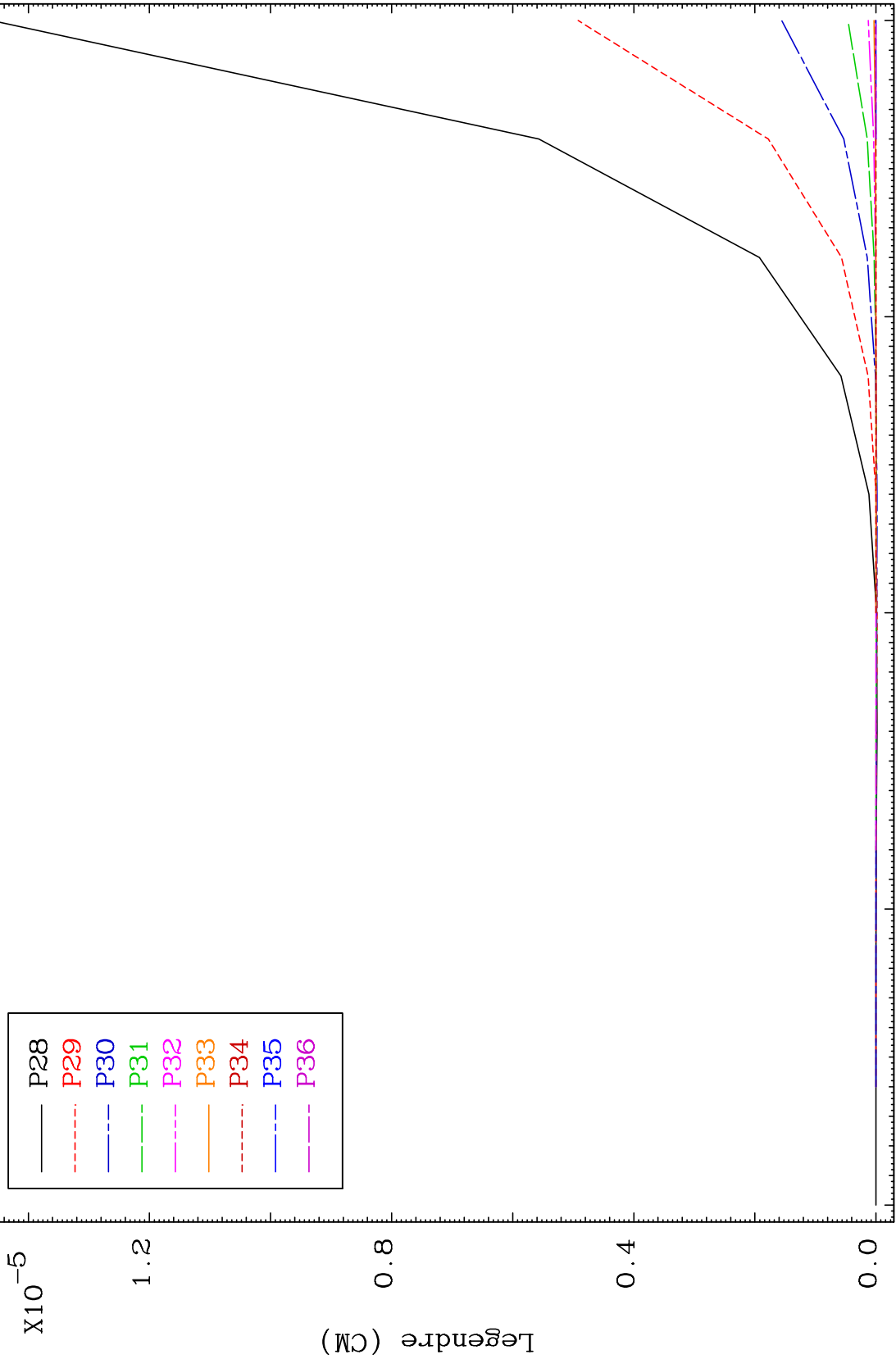
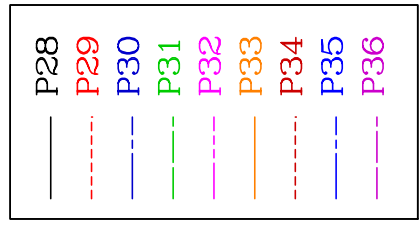
Incident Energy (MeV)

64-Gd-160

MAT 6449

Elastic Legendre Coefficients

64-Gd-160



10

15

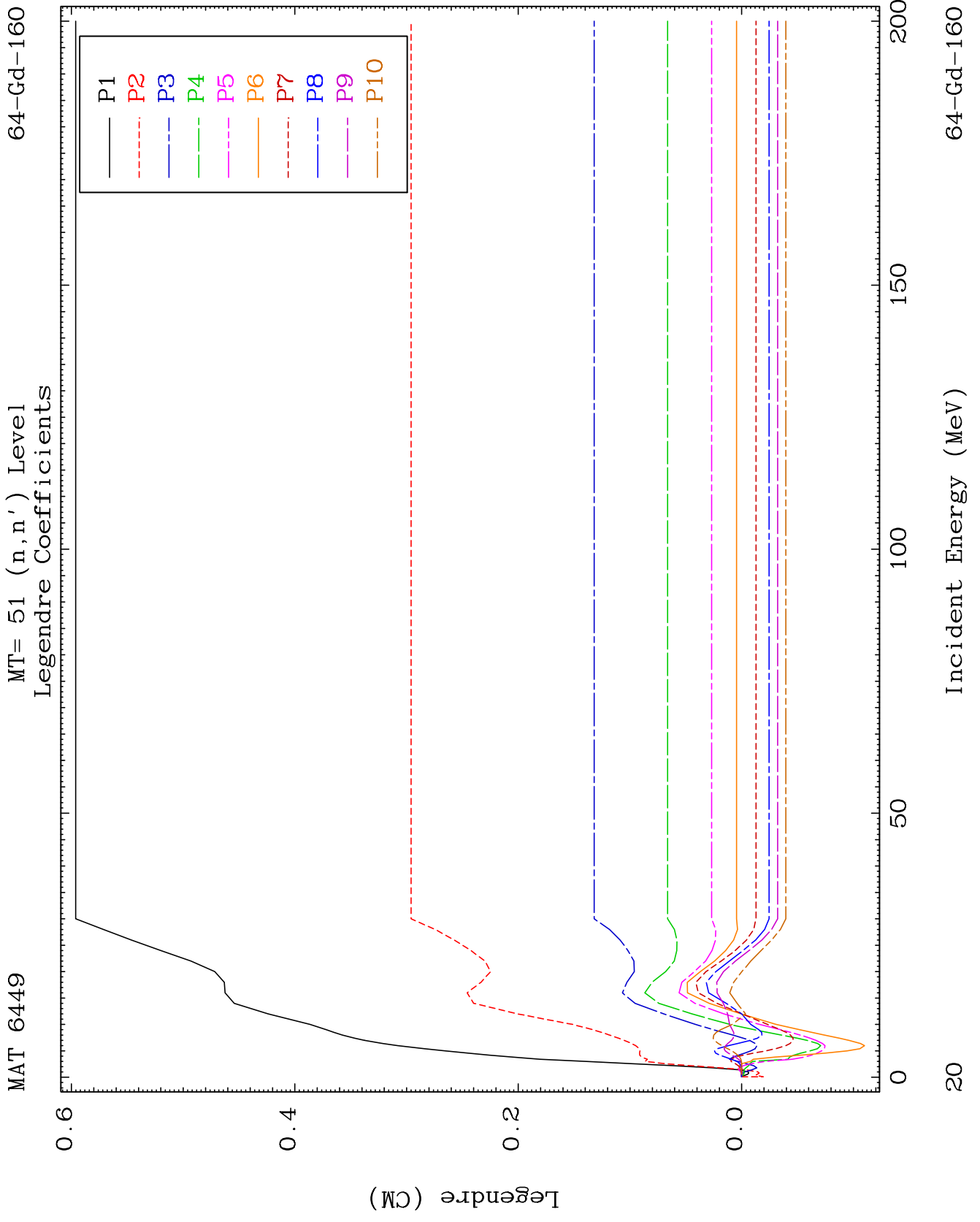
20

25

30

Incident Energy (MeV)

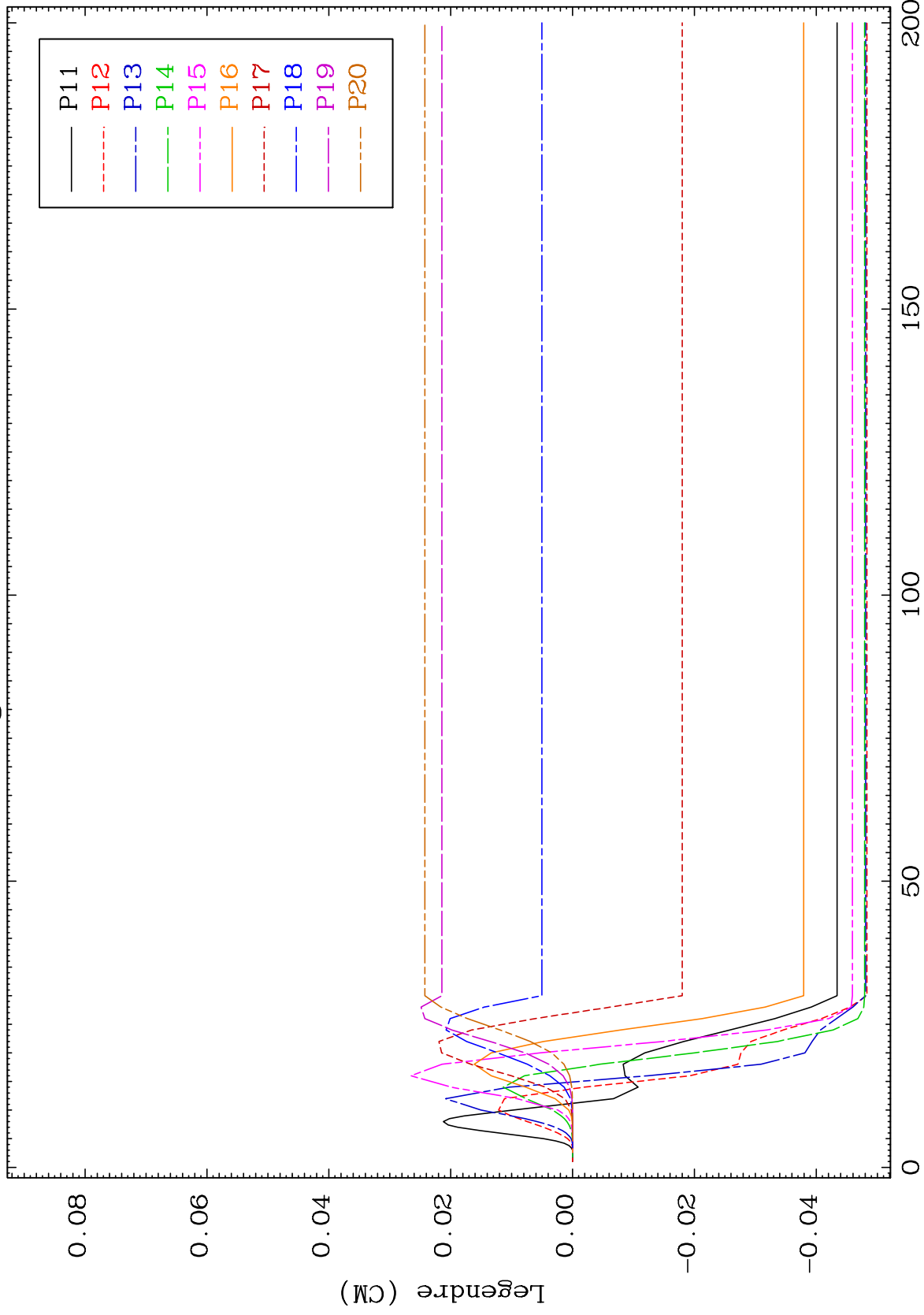
64-Gd-160



MAT 6449

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

64-Gd-160



21

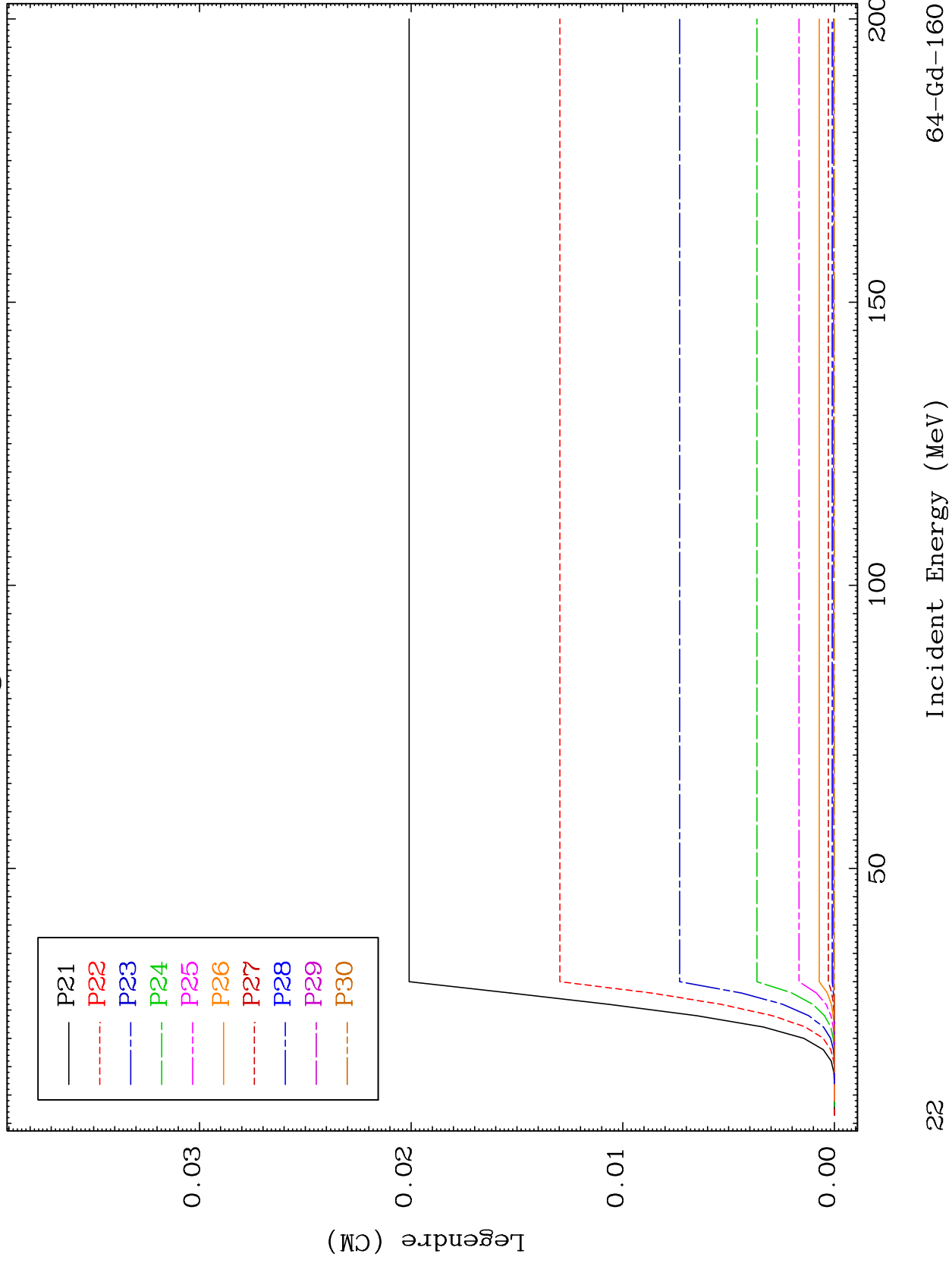
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160



22

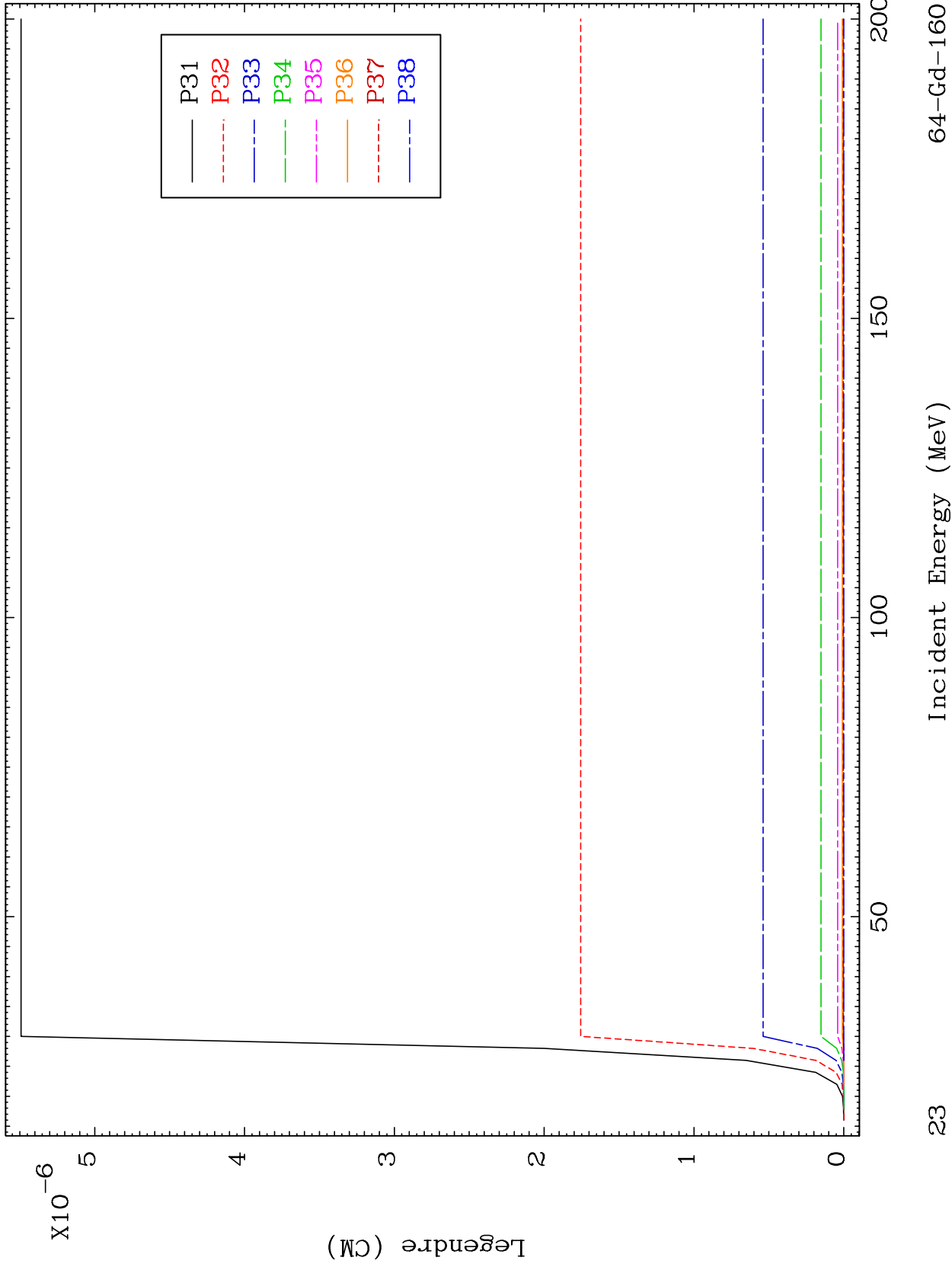
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160



23

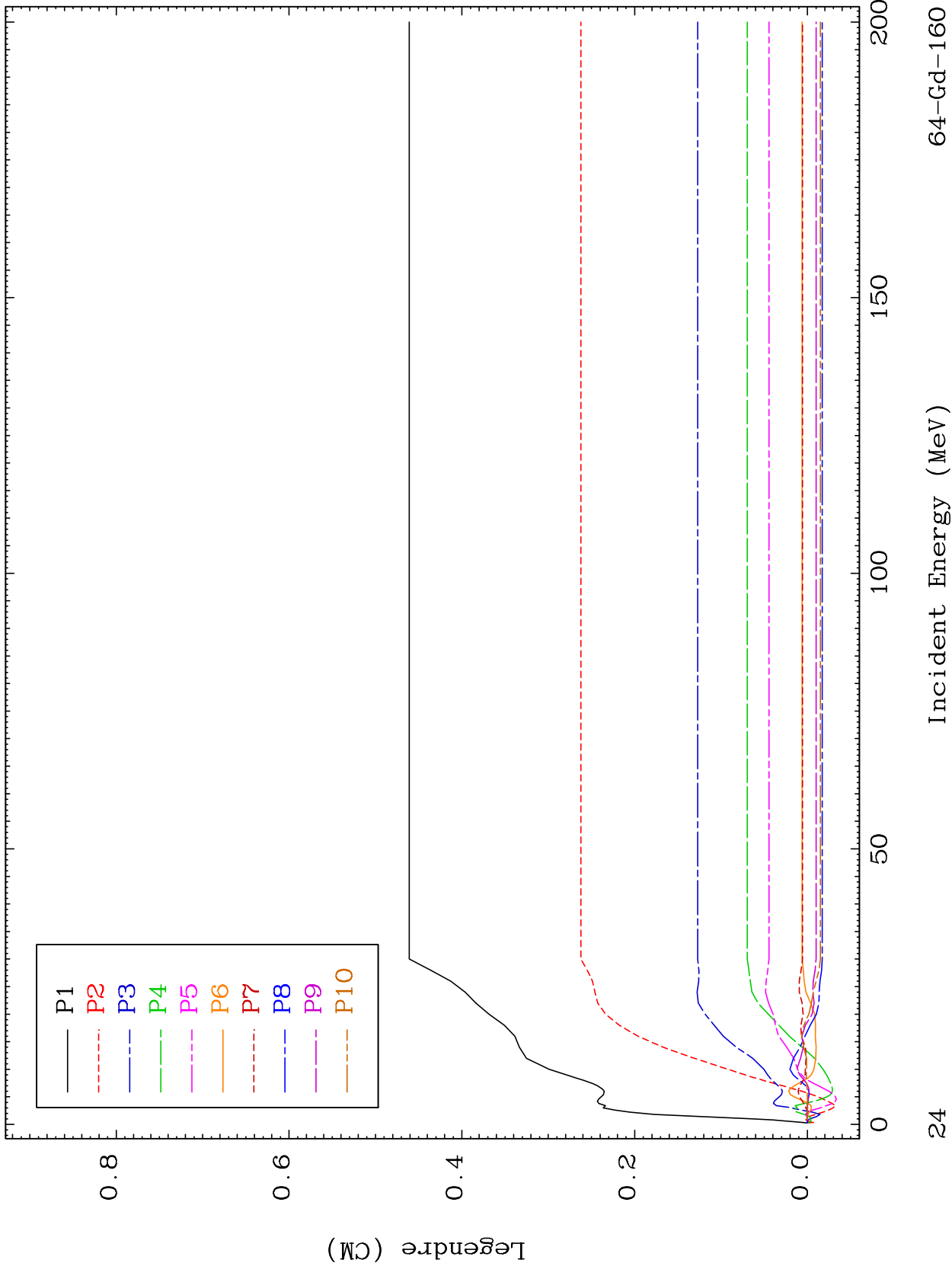
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

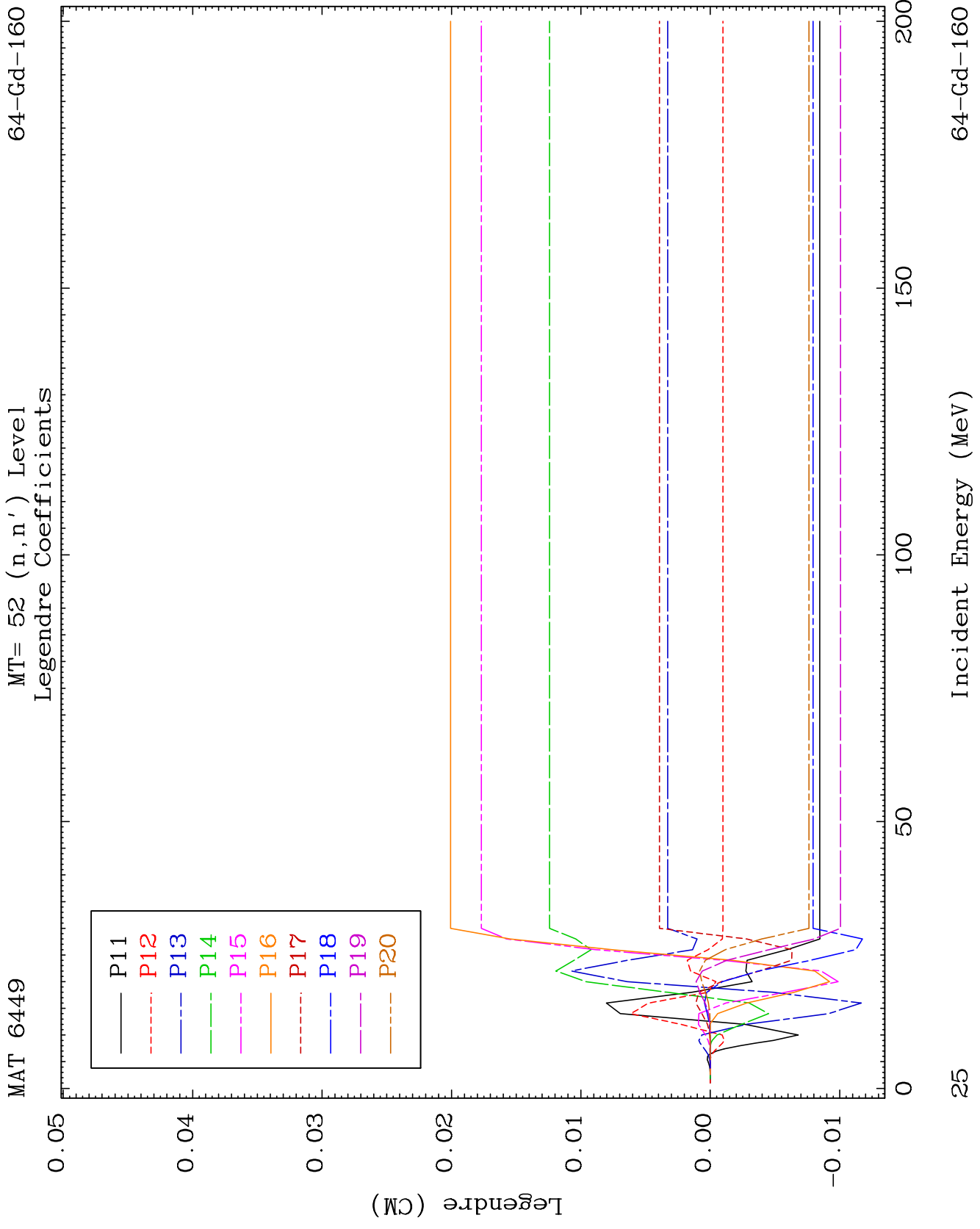
64-Gd-160

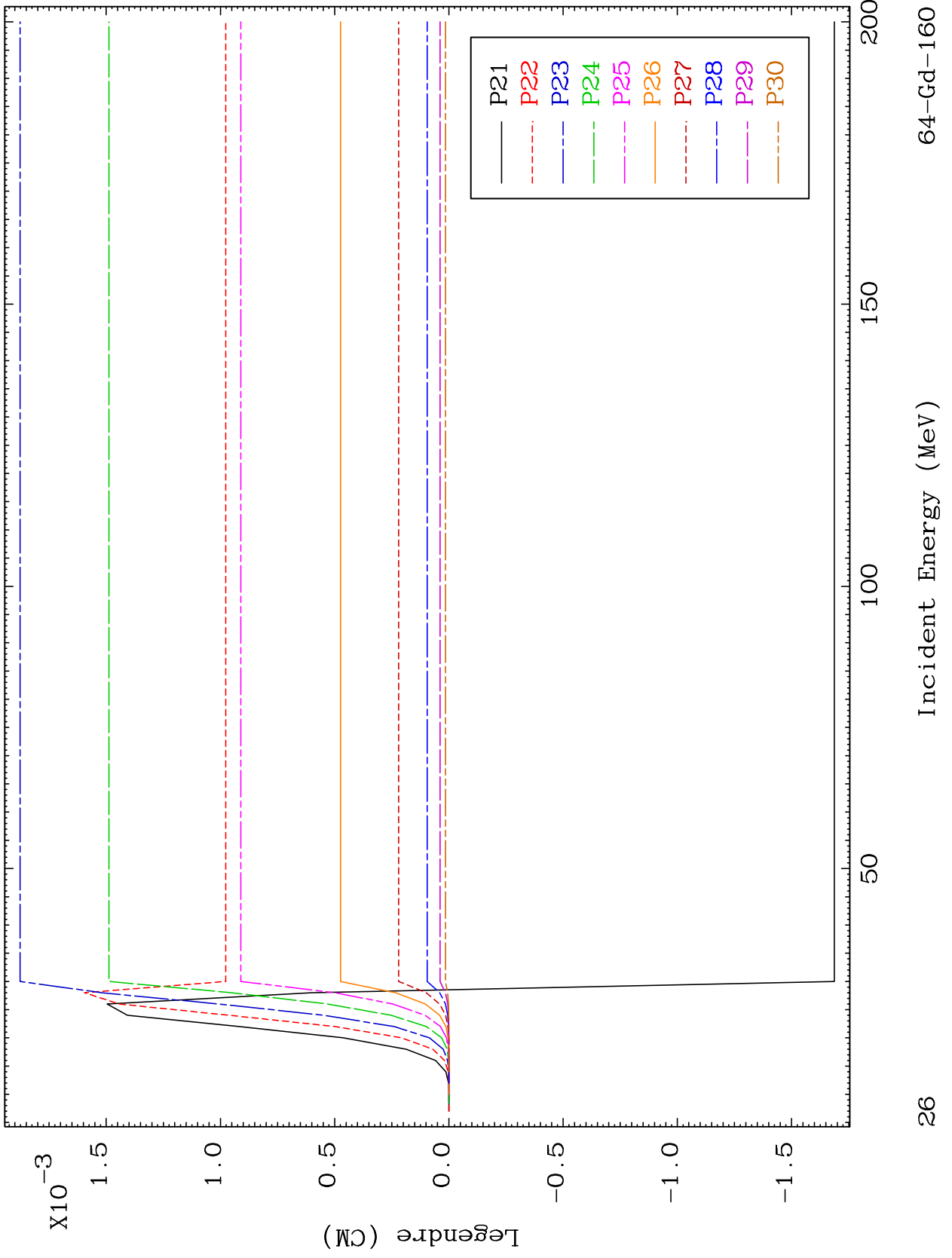


24

Incident Energy (MeV)

64-Gd-160

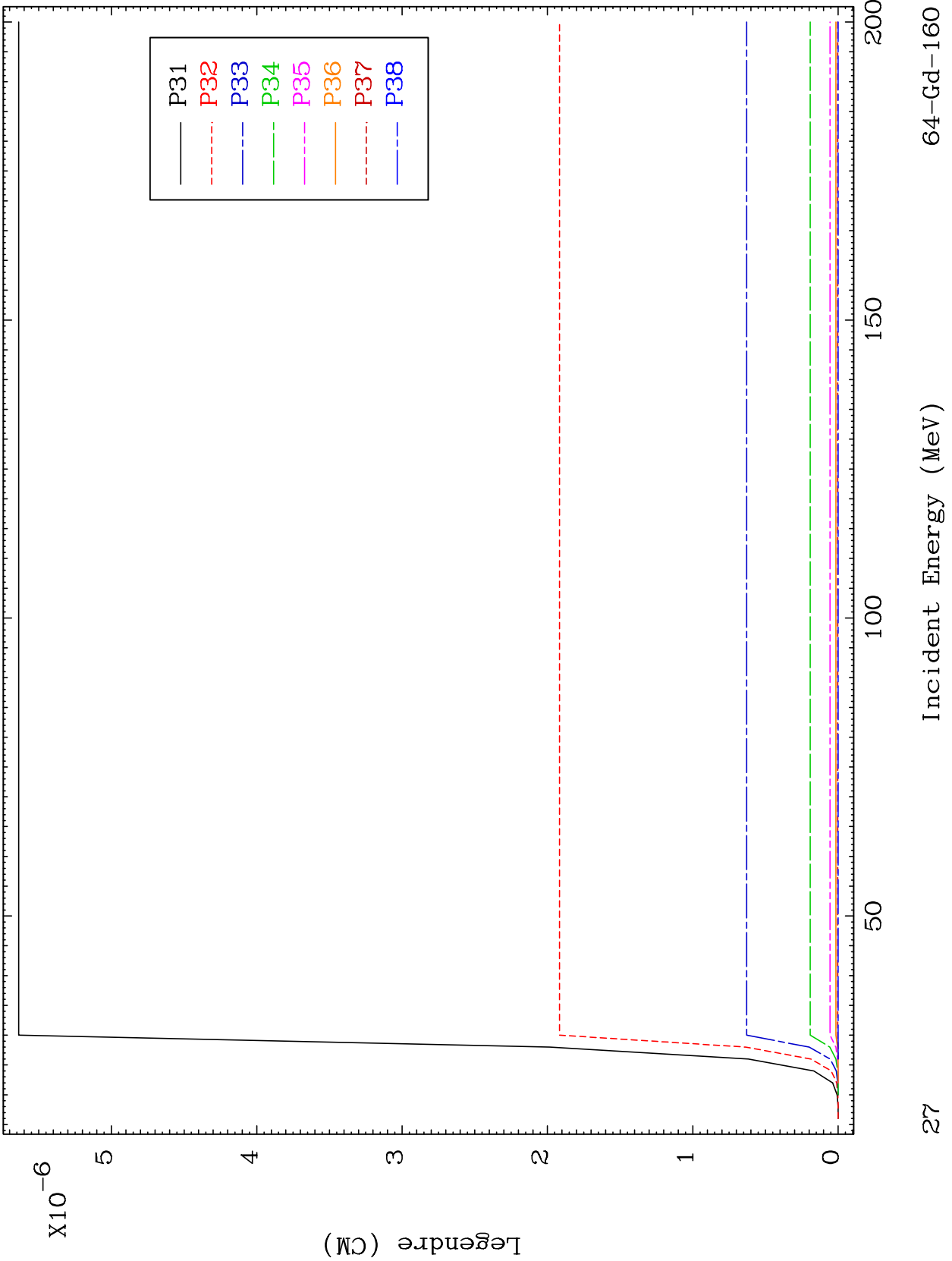




MAT 6449

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

64-Gd-160



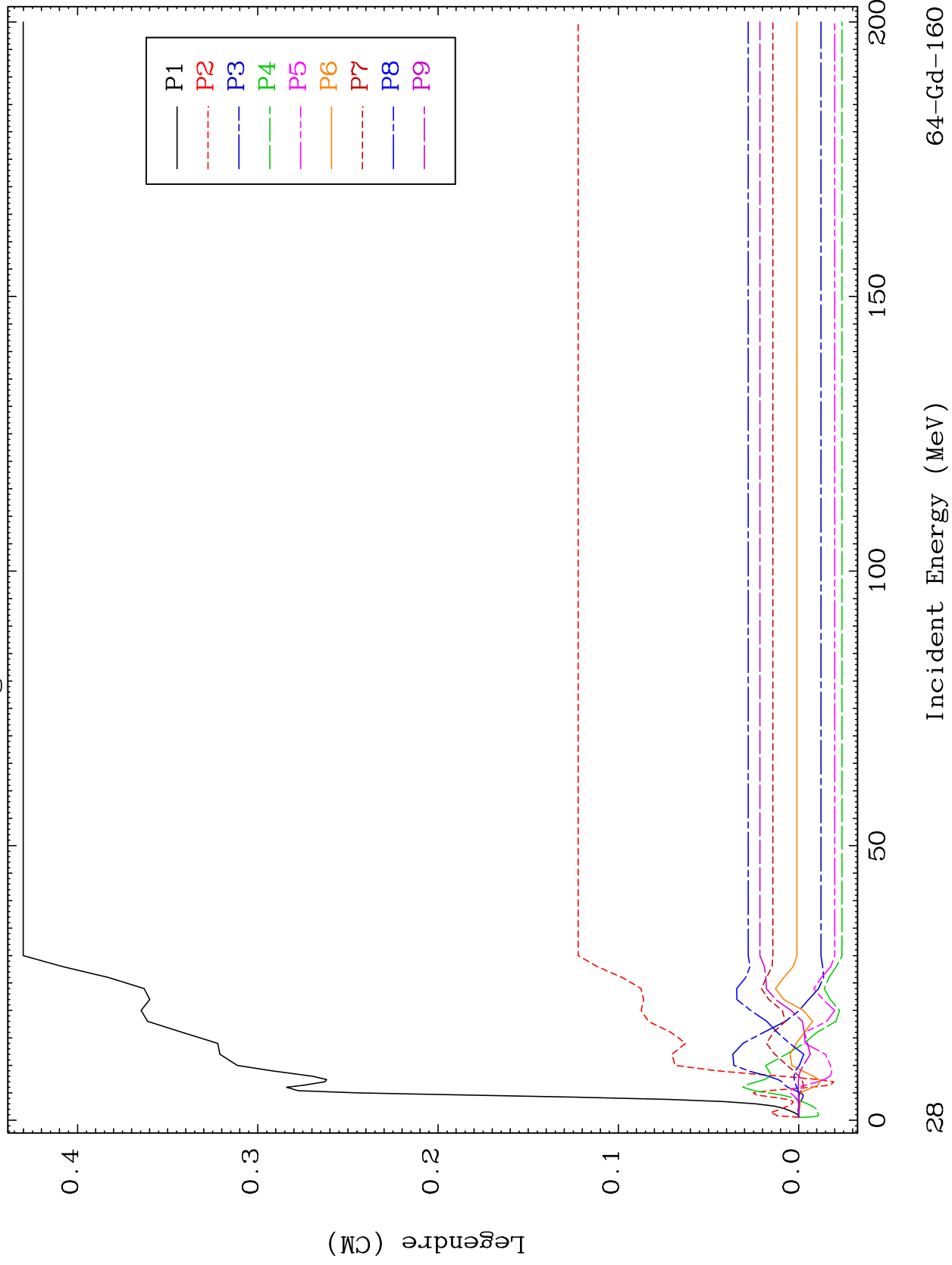
27

64-Gd-160

MAT 6449

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

64-Gd-160



64-Gd-160

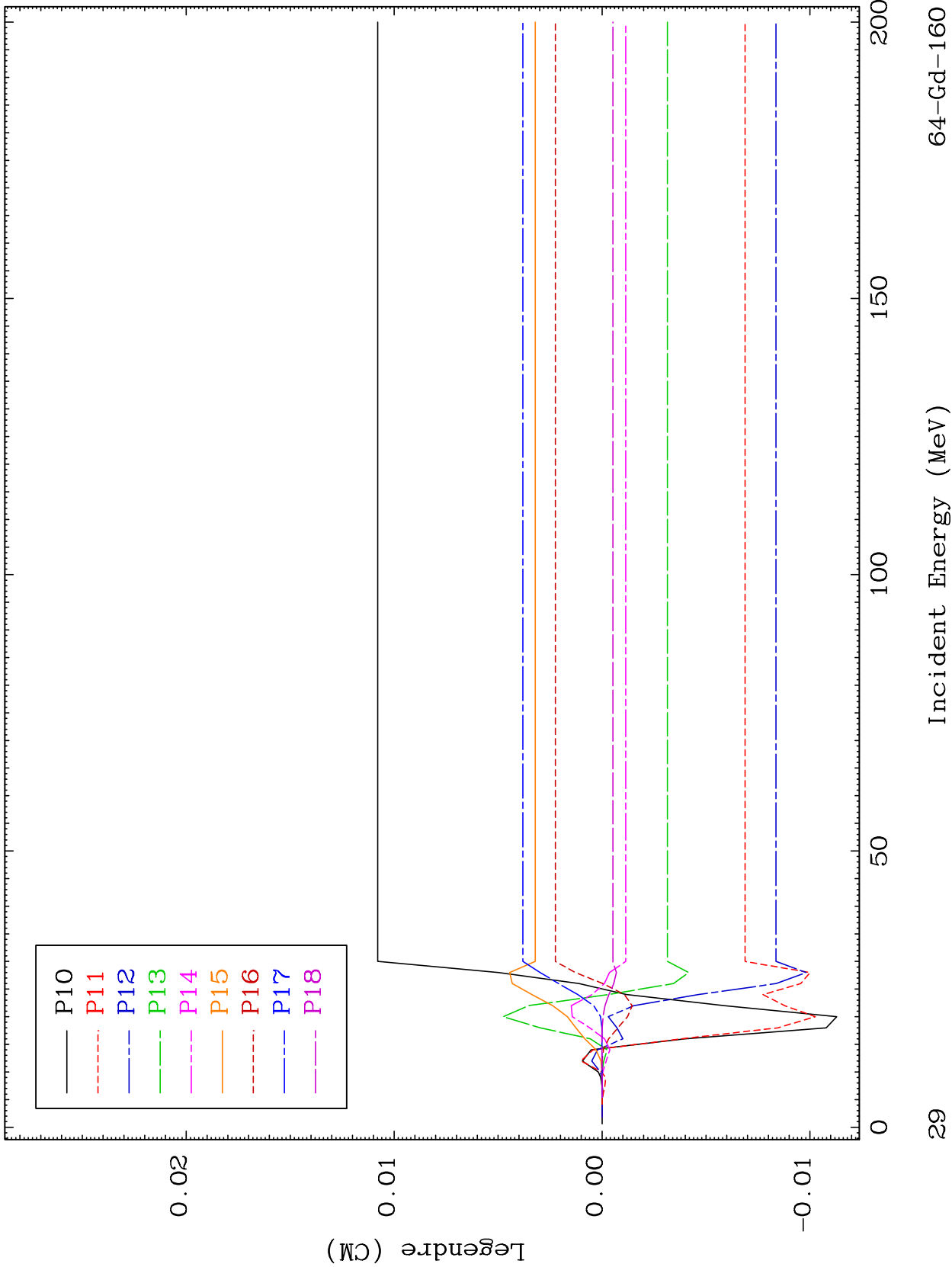
Incident Energy (MeV)

28

MAT 6449

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

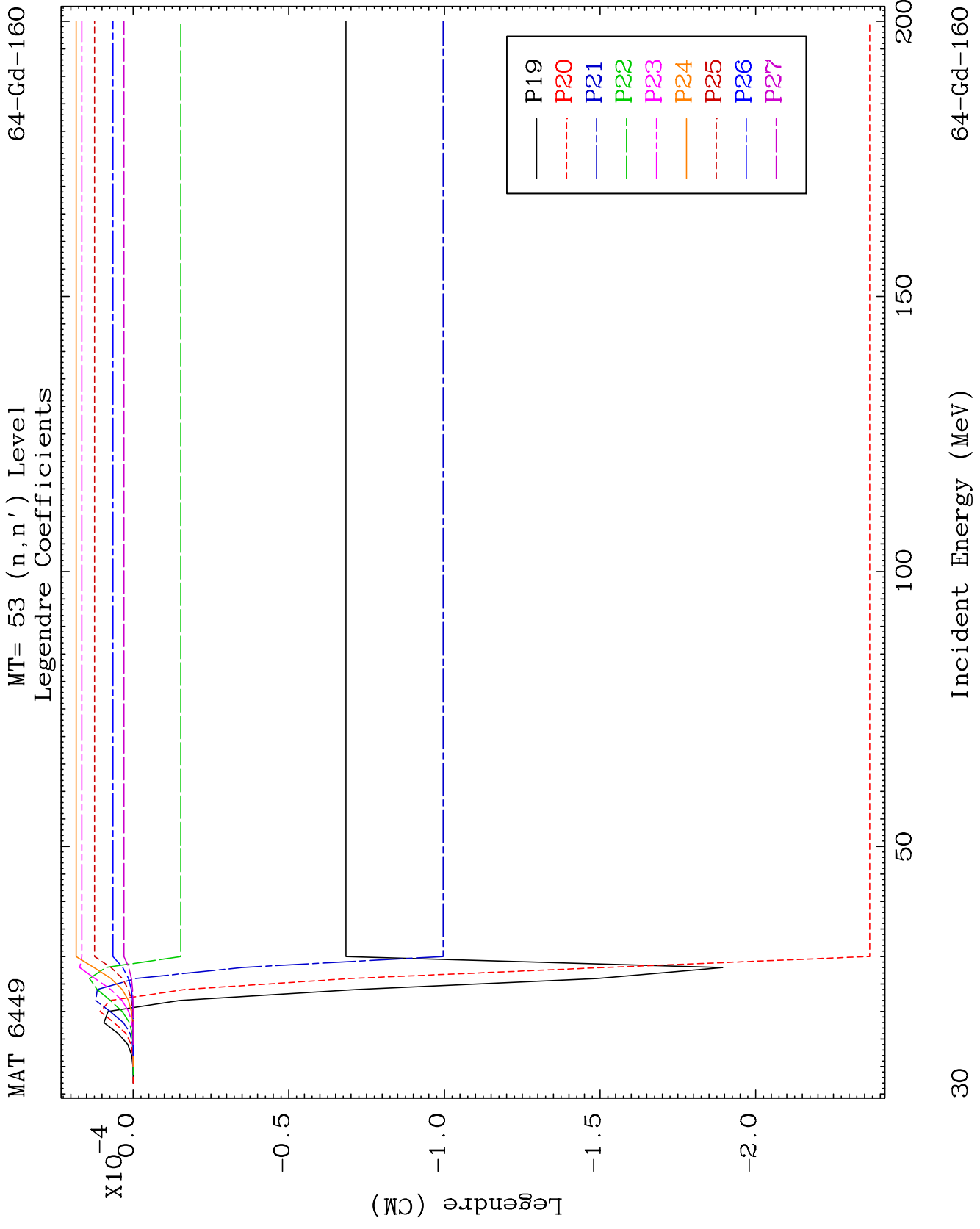
64-Gd-160



29

Incident Energy (MeV)

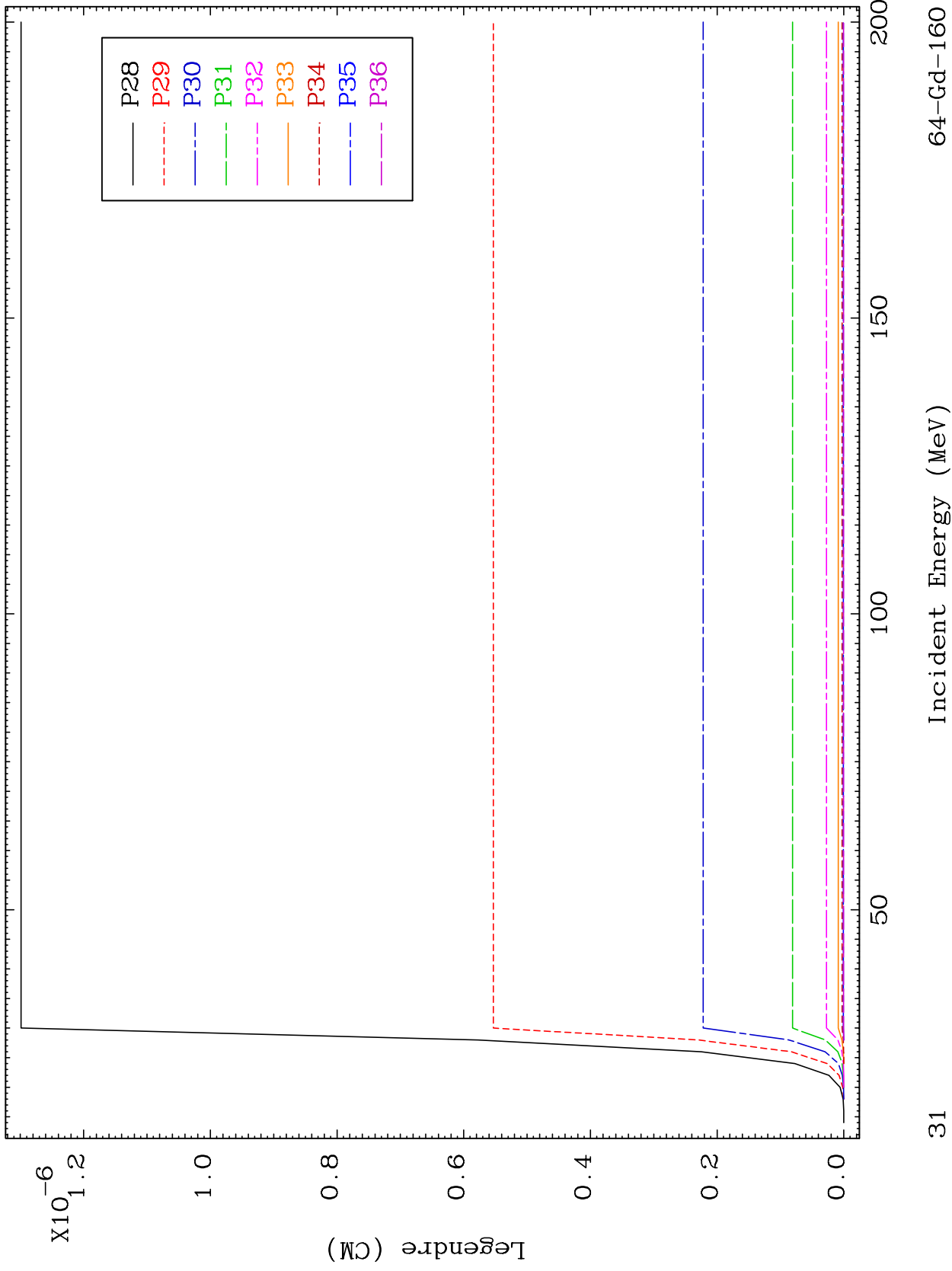
64-Gd-160



MAT 6449

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

64-Gd-160

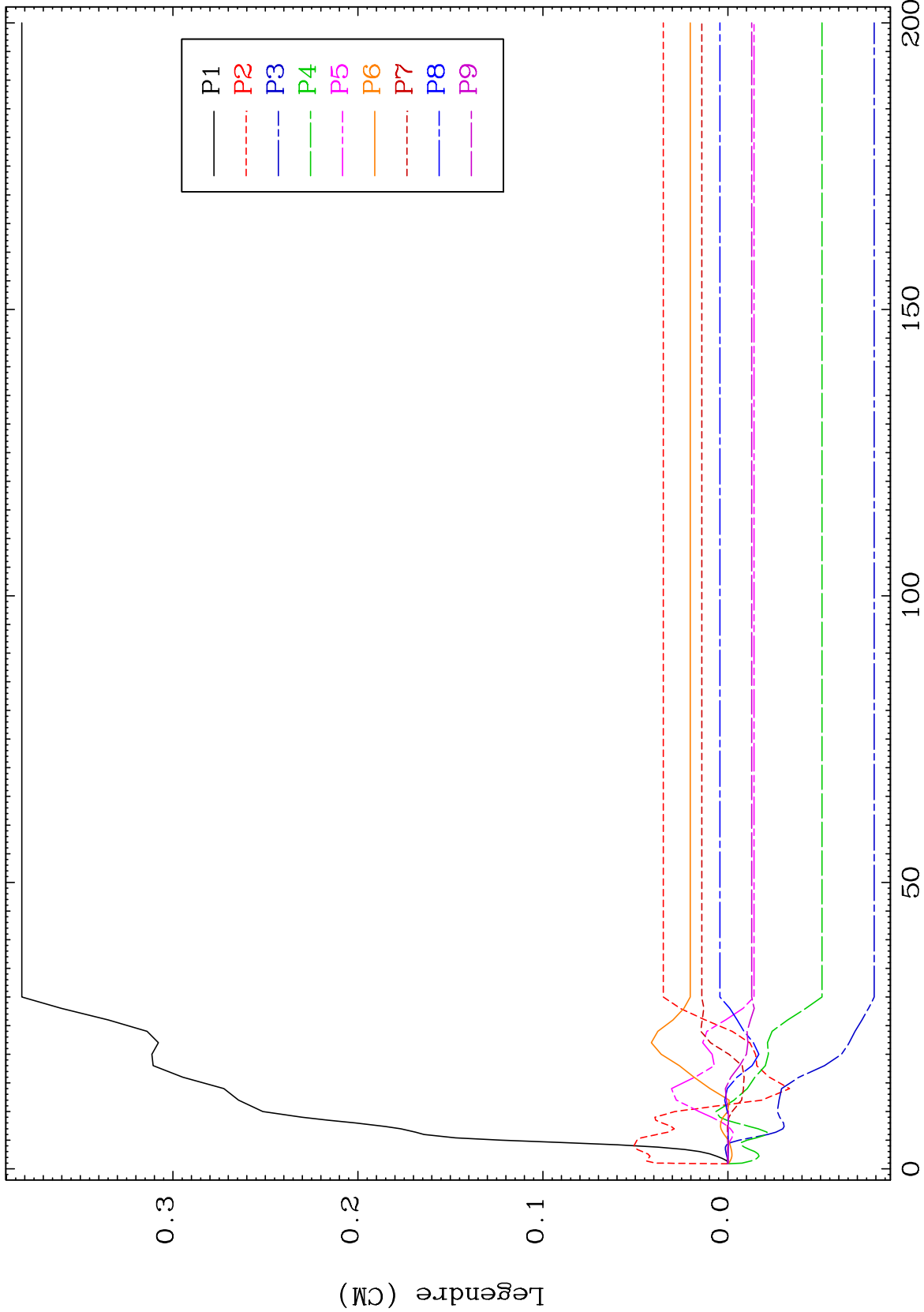


31

MAT 6449

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

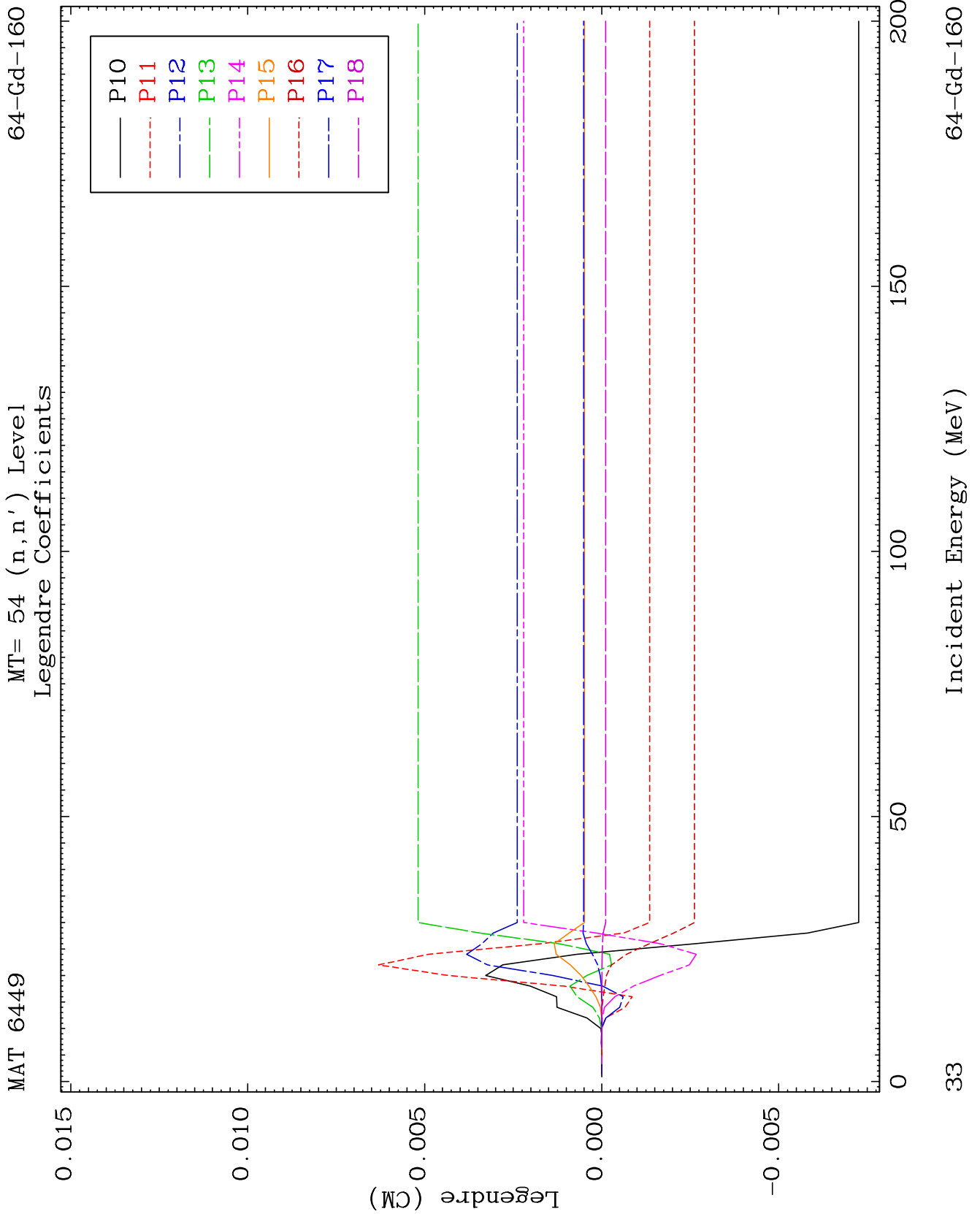
64-Gd-160



32

Incident Energy (MeV)

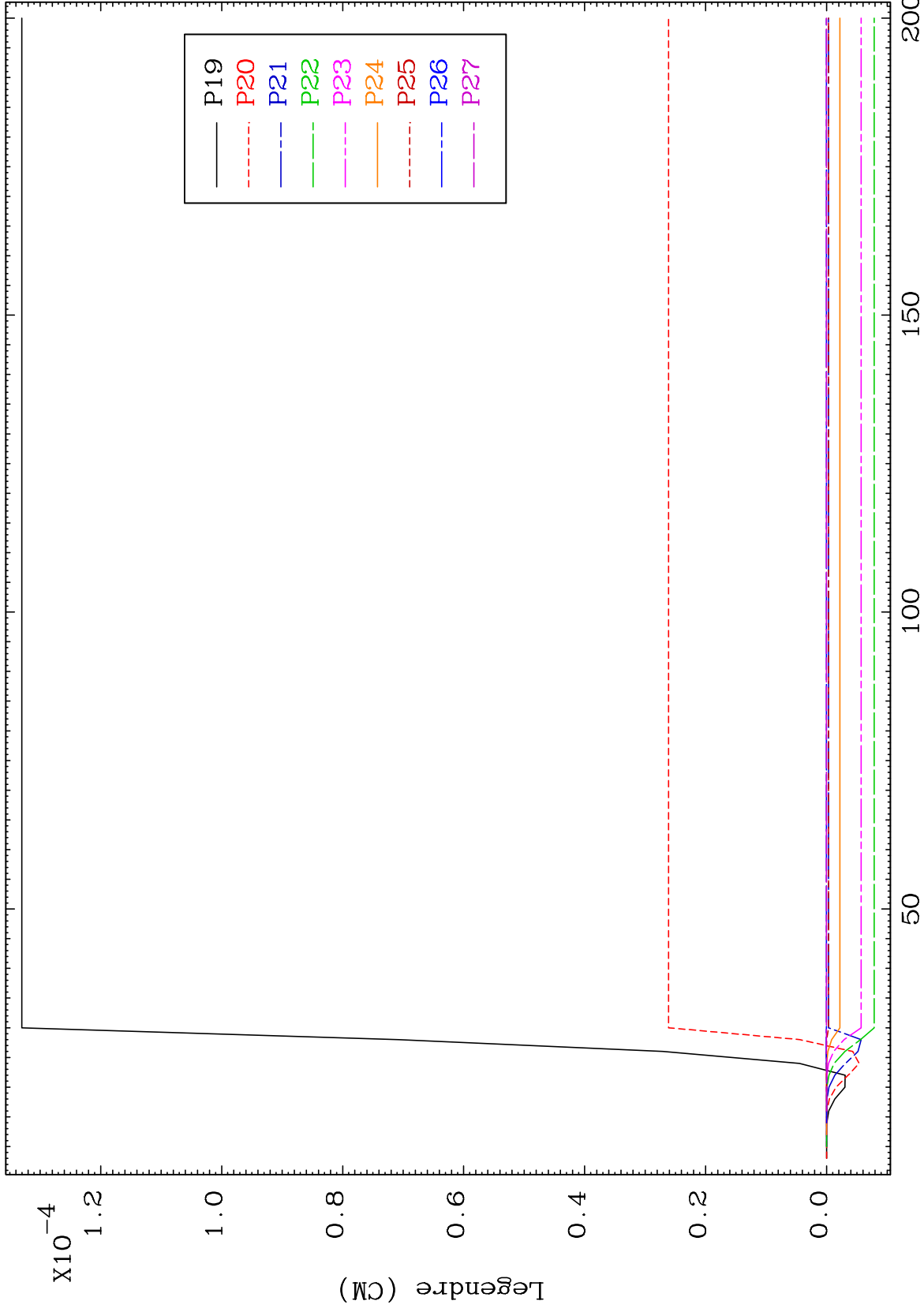
64-Gd-160



MAT 6449

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

64-Gd-160



34

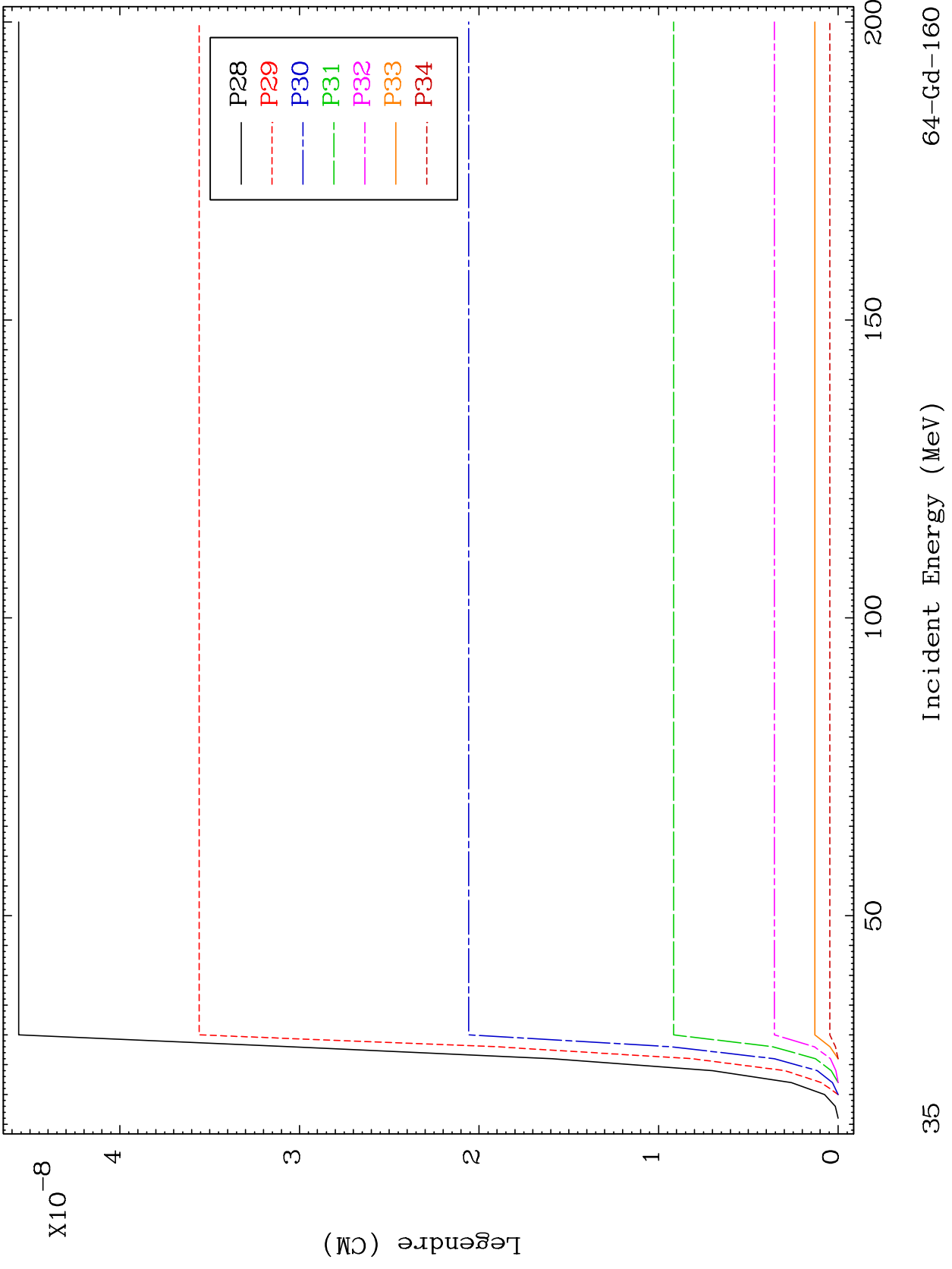
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160



35

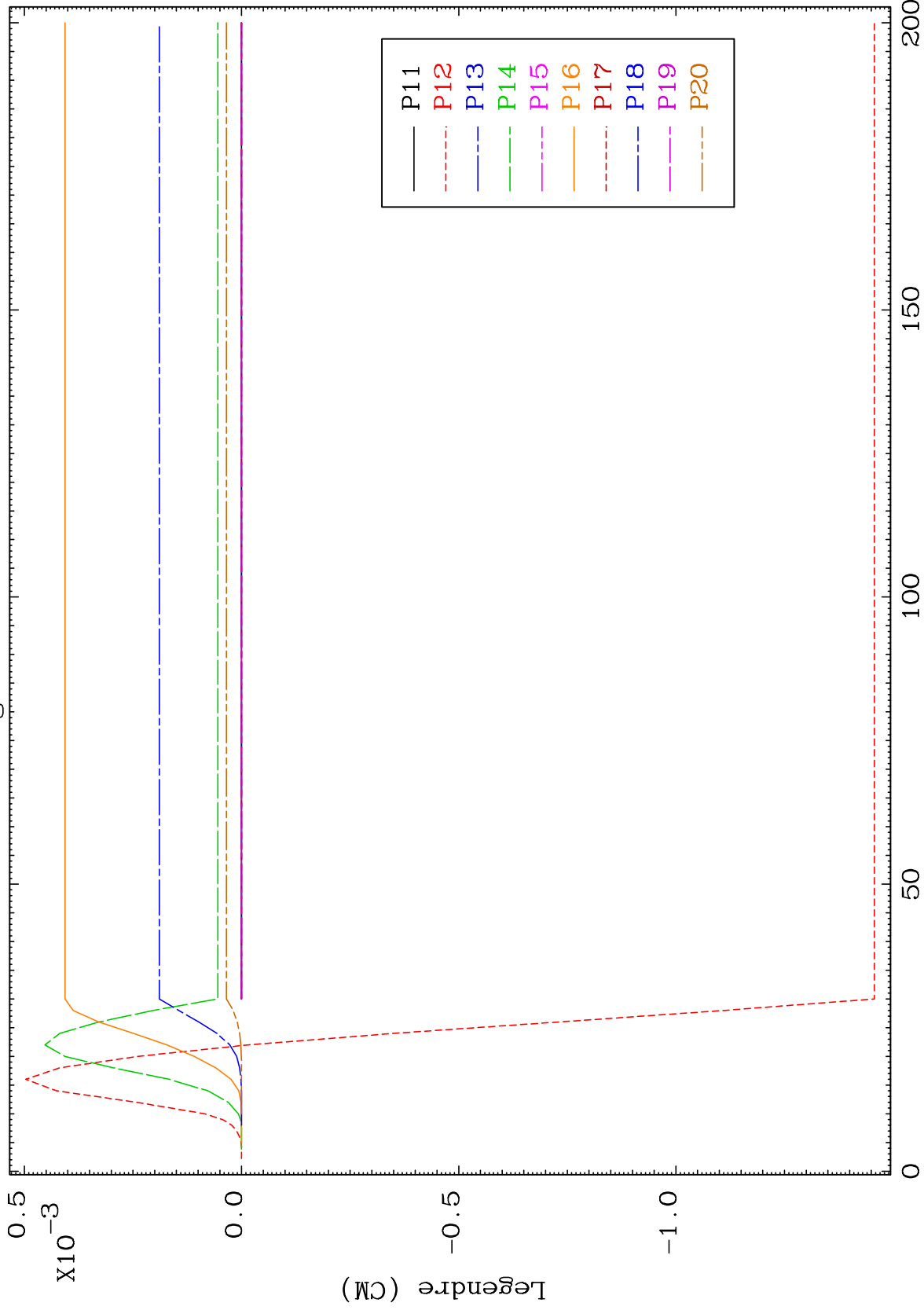
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

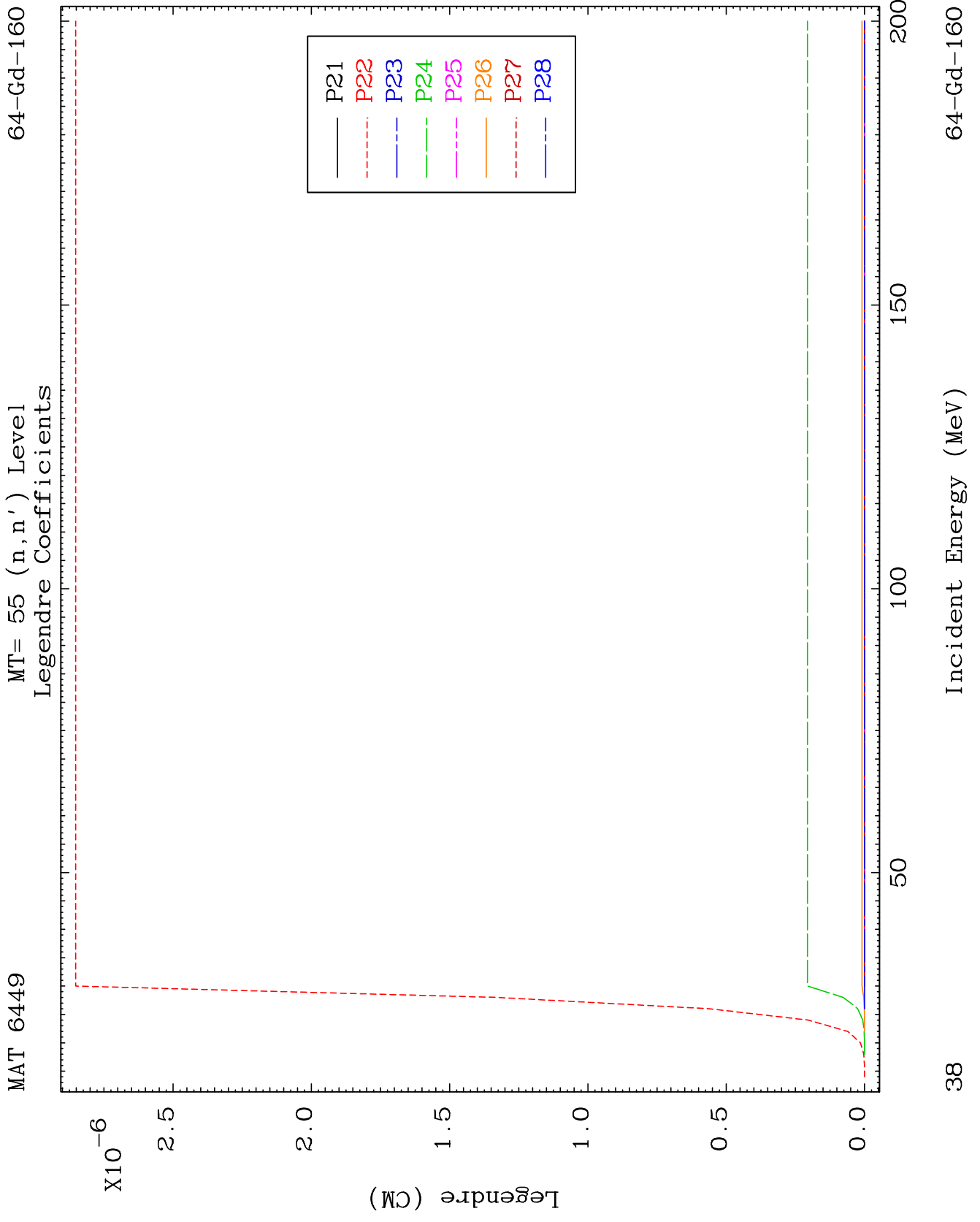
64-Gd-160

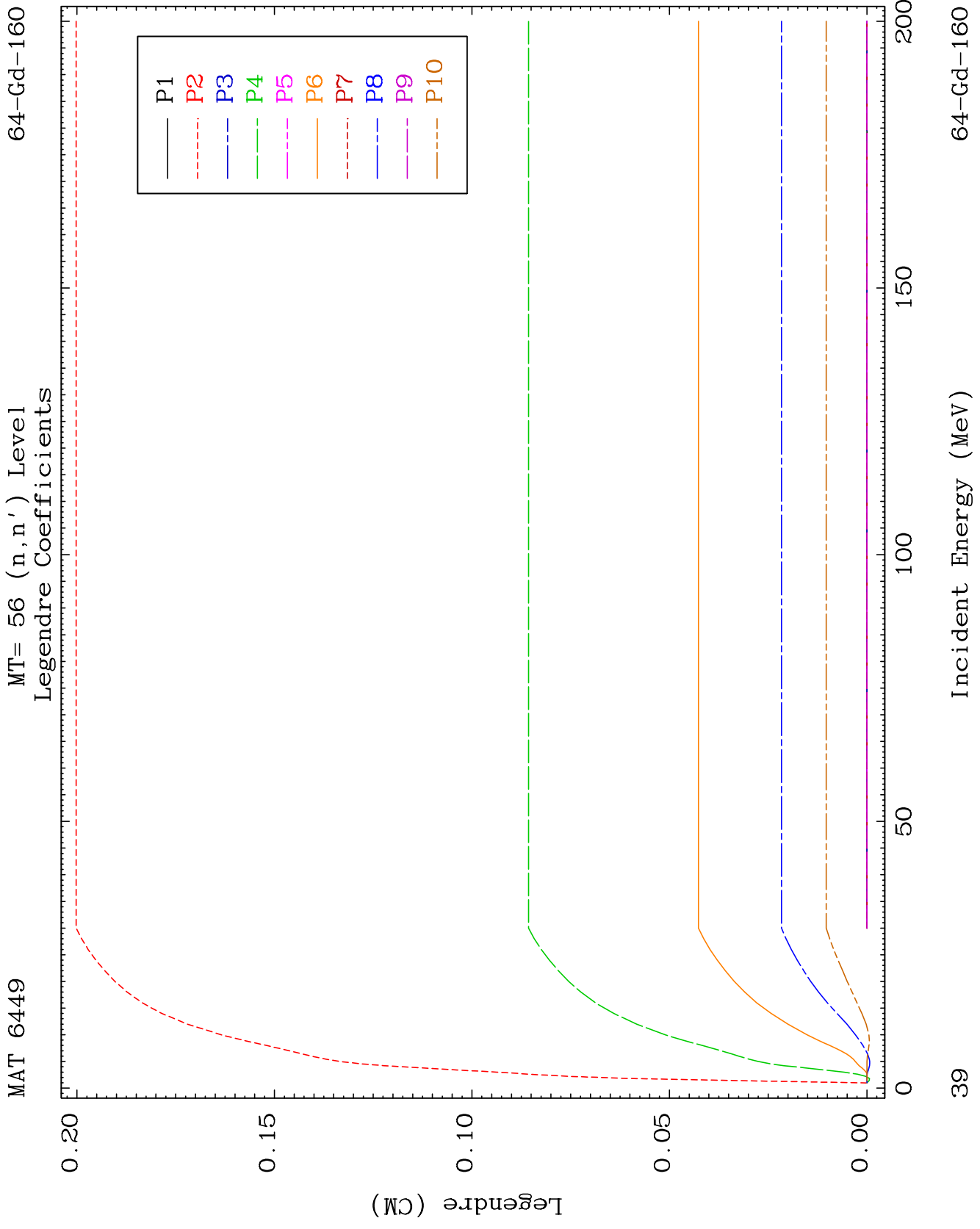


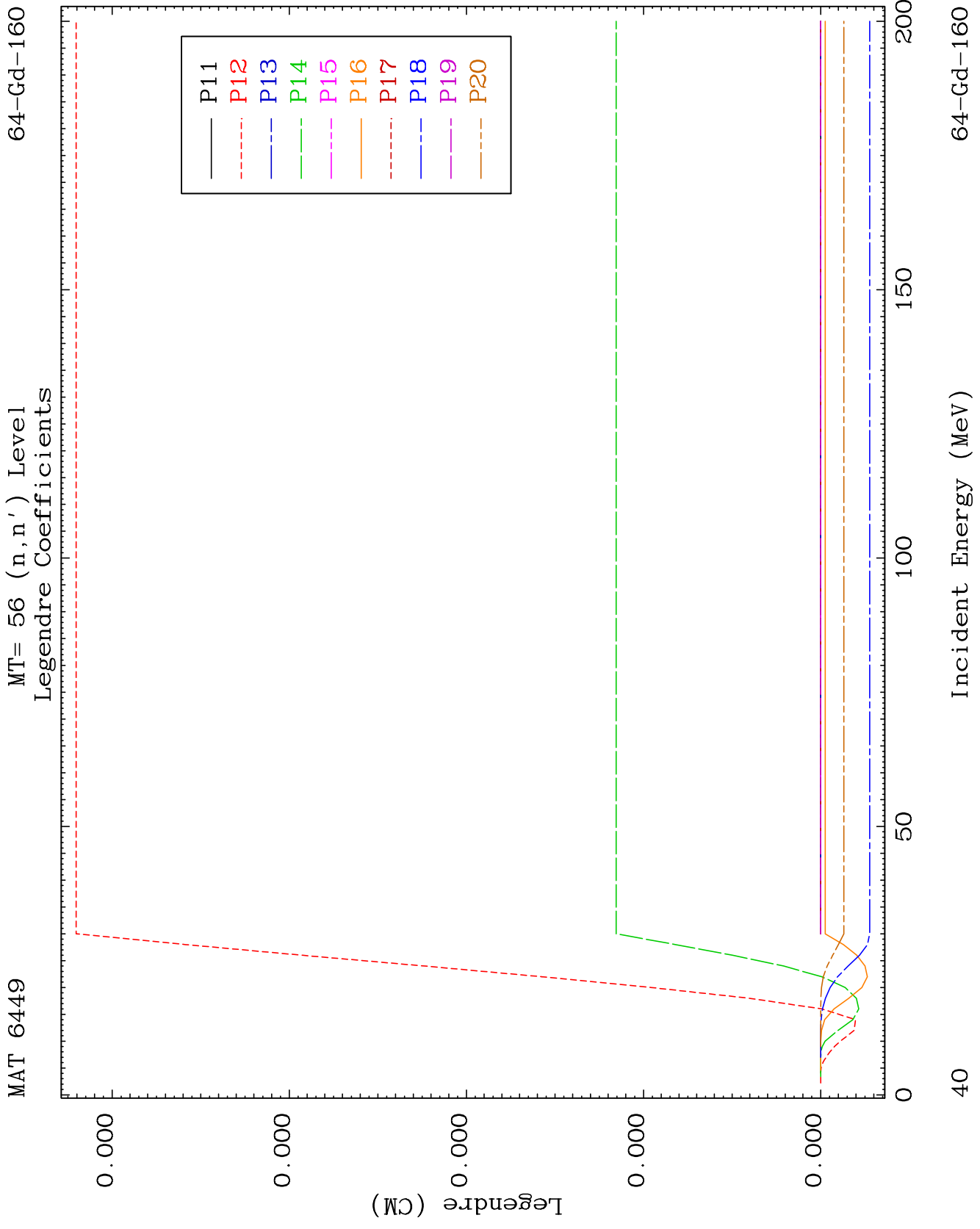
37

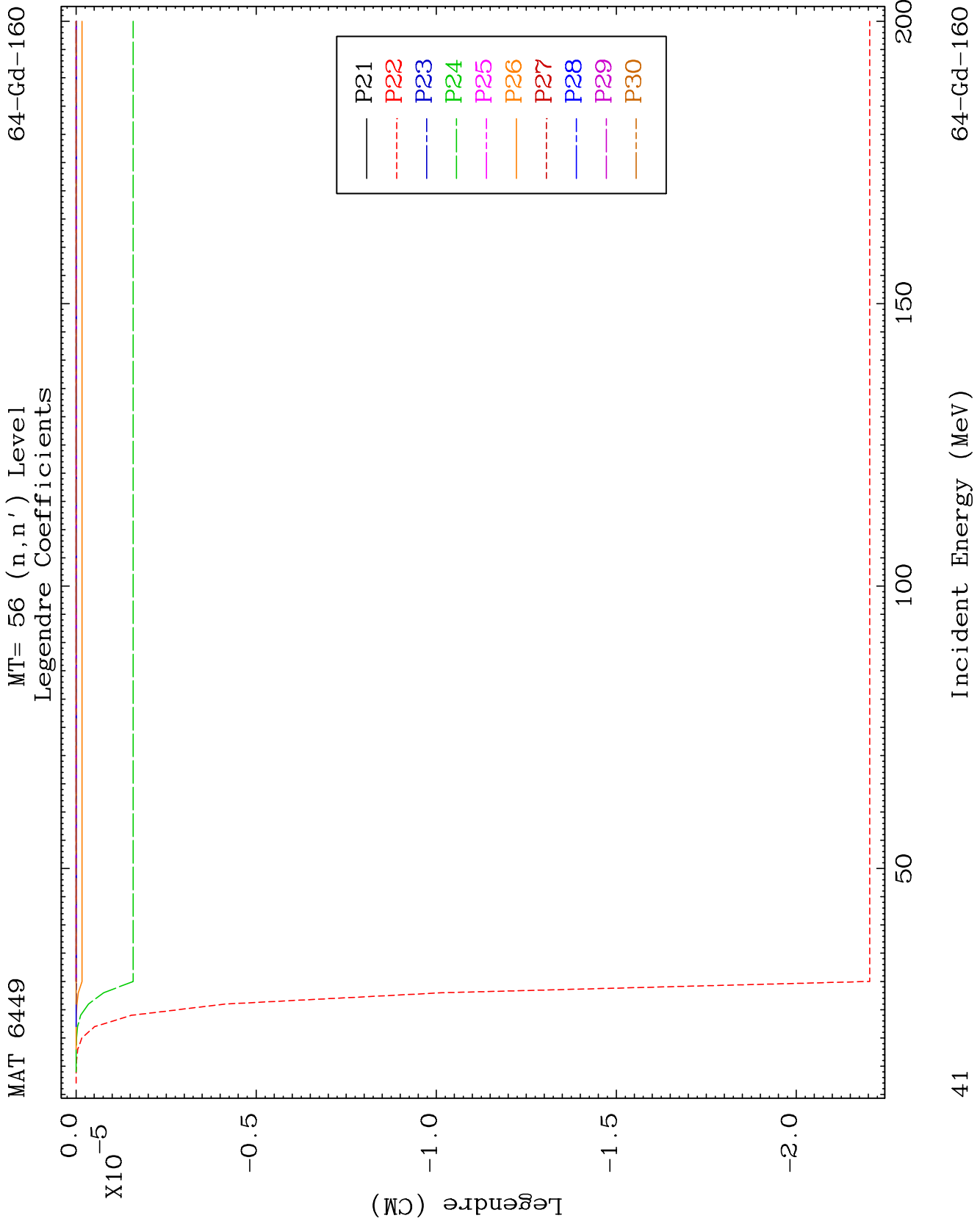
Incident Energy (MeV)

64-Gd-160





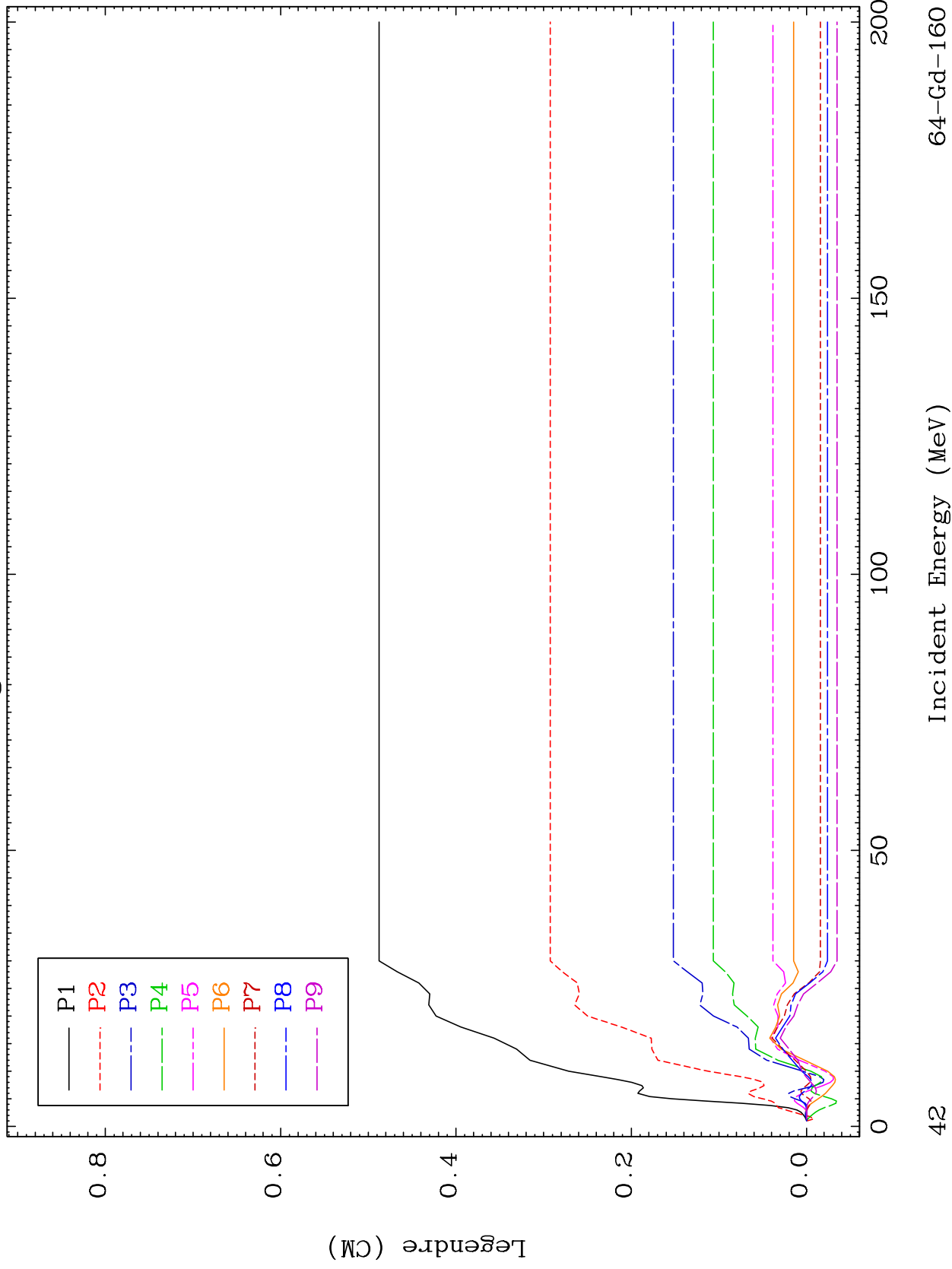




MAT 6449

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

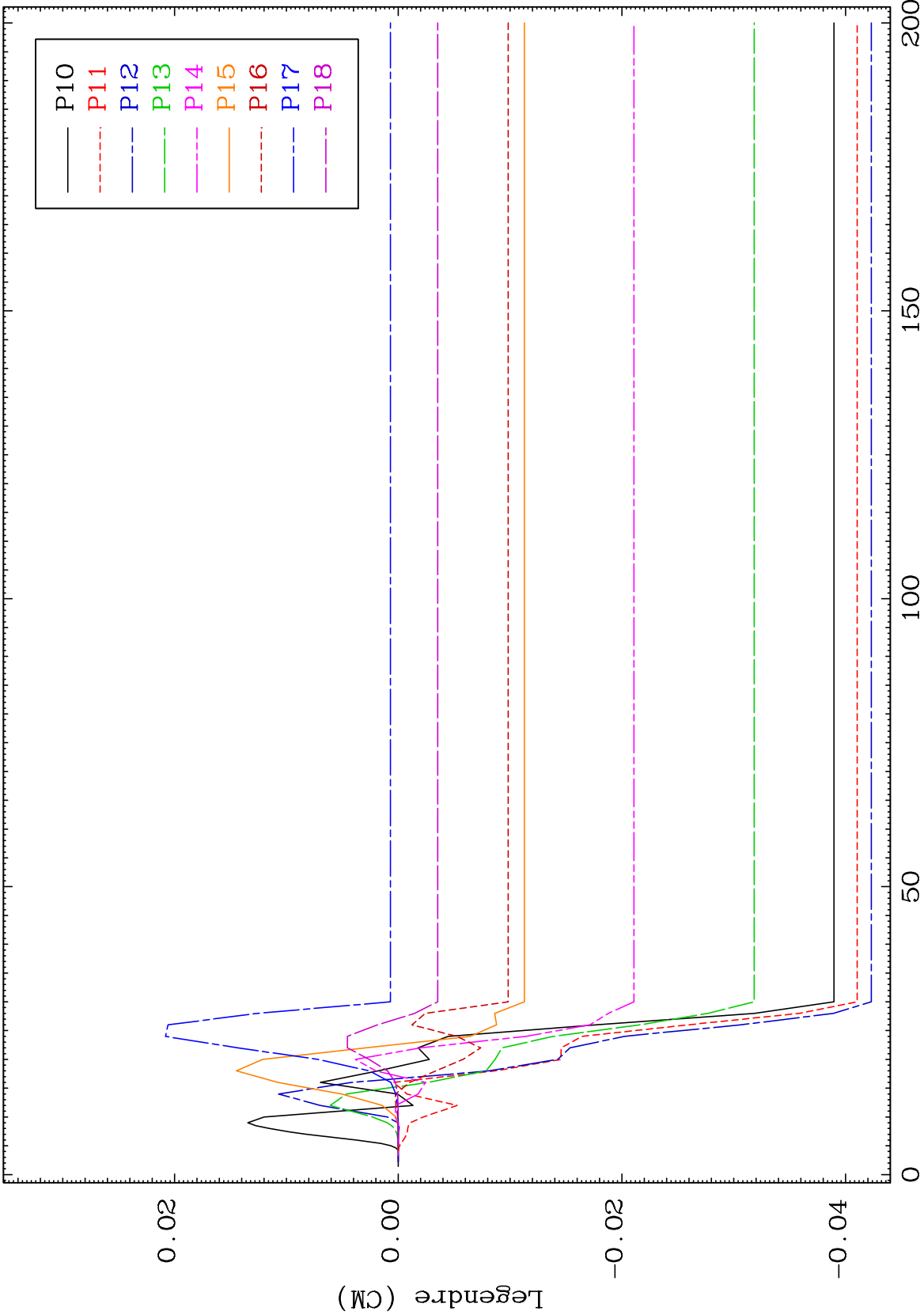
64-Gd-160



MAT 6449

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

64-Gd-160



43

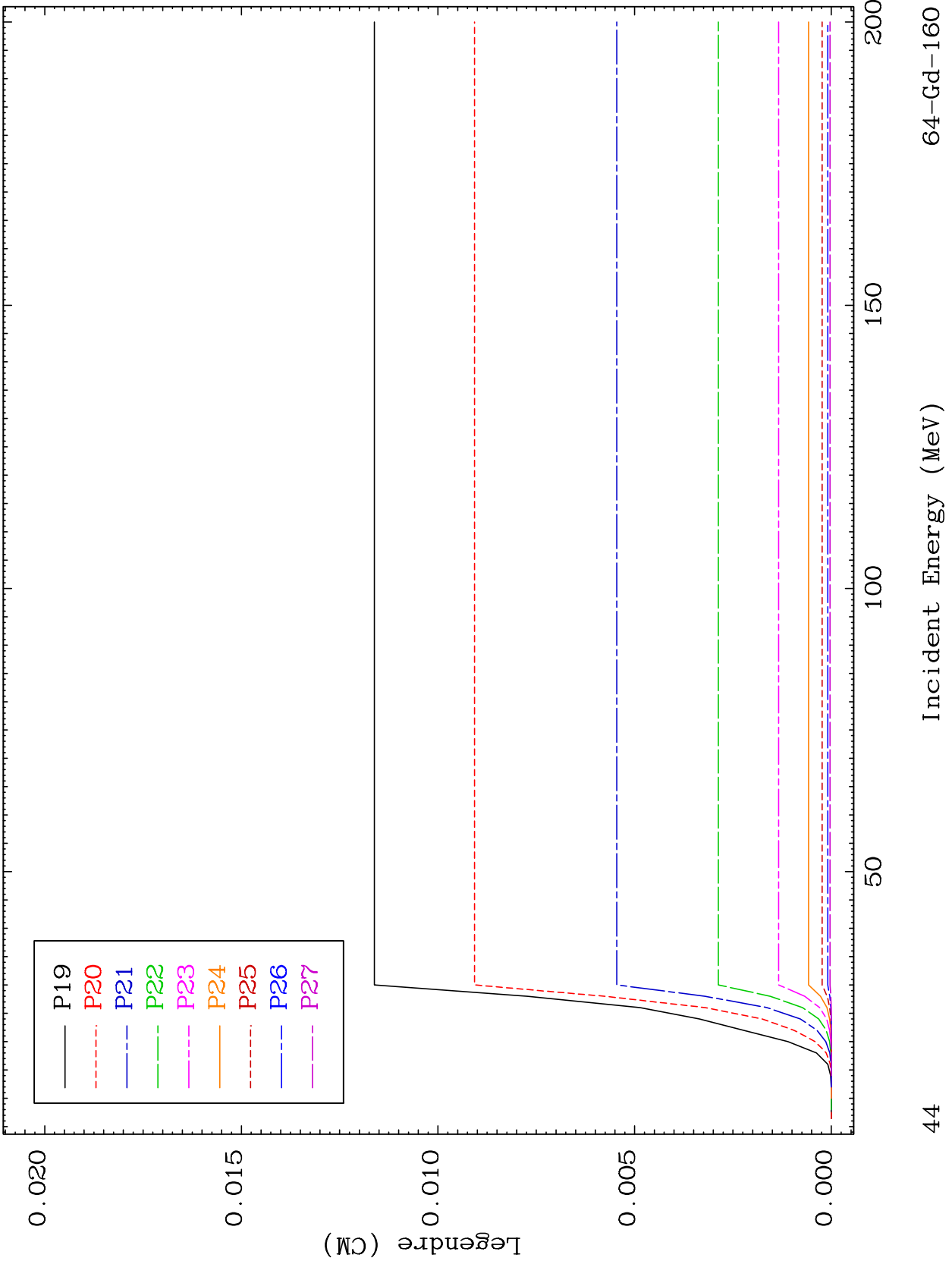
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160



44

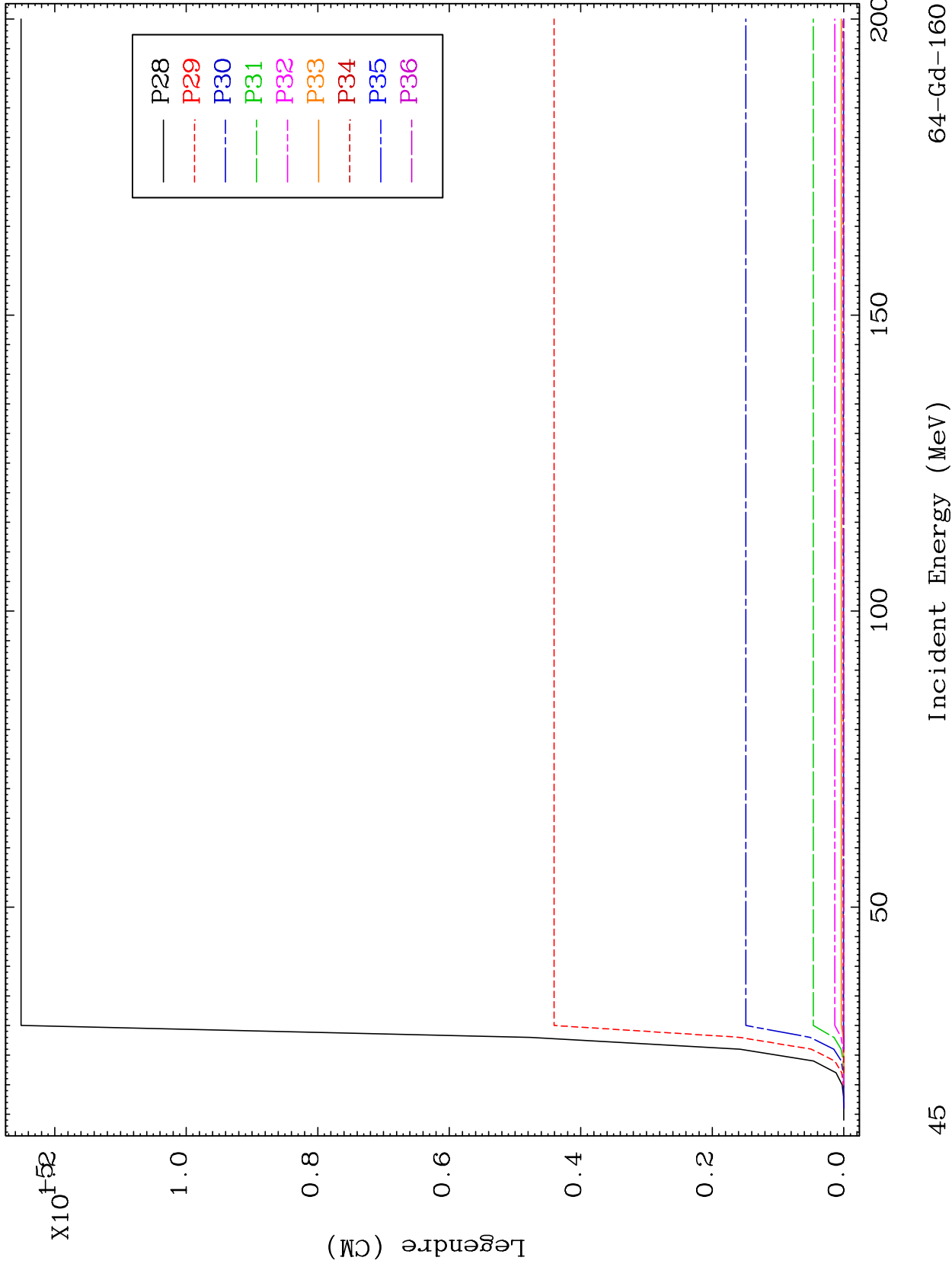
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

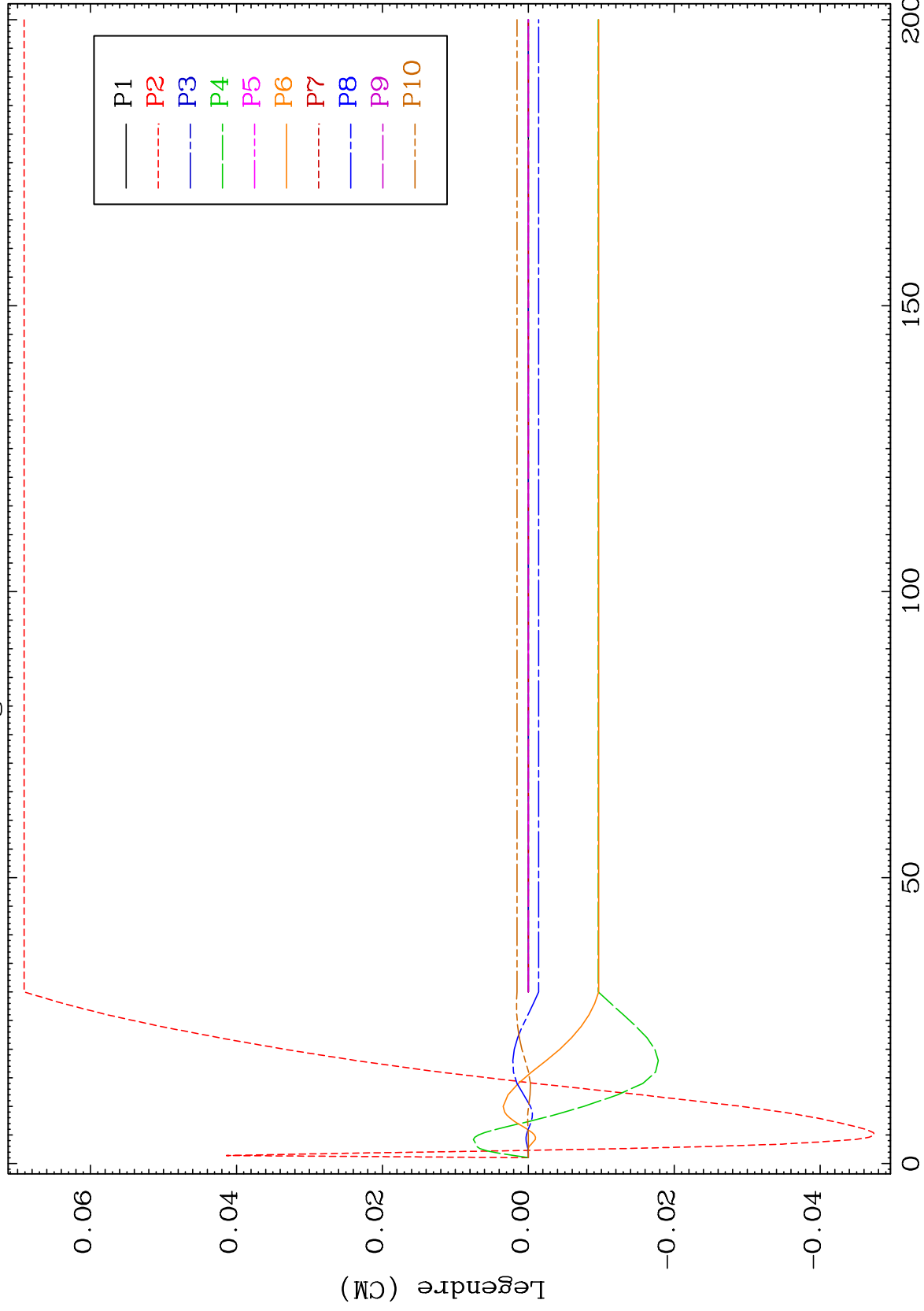
64-Gd-160



MAT 6449

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

64-Gd-160



64-Gd-160

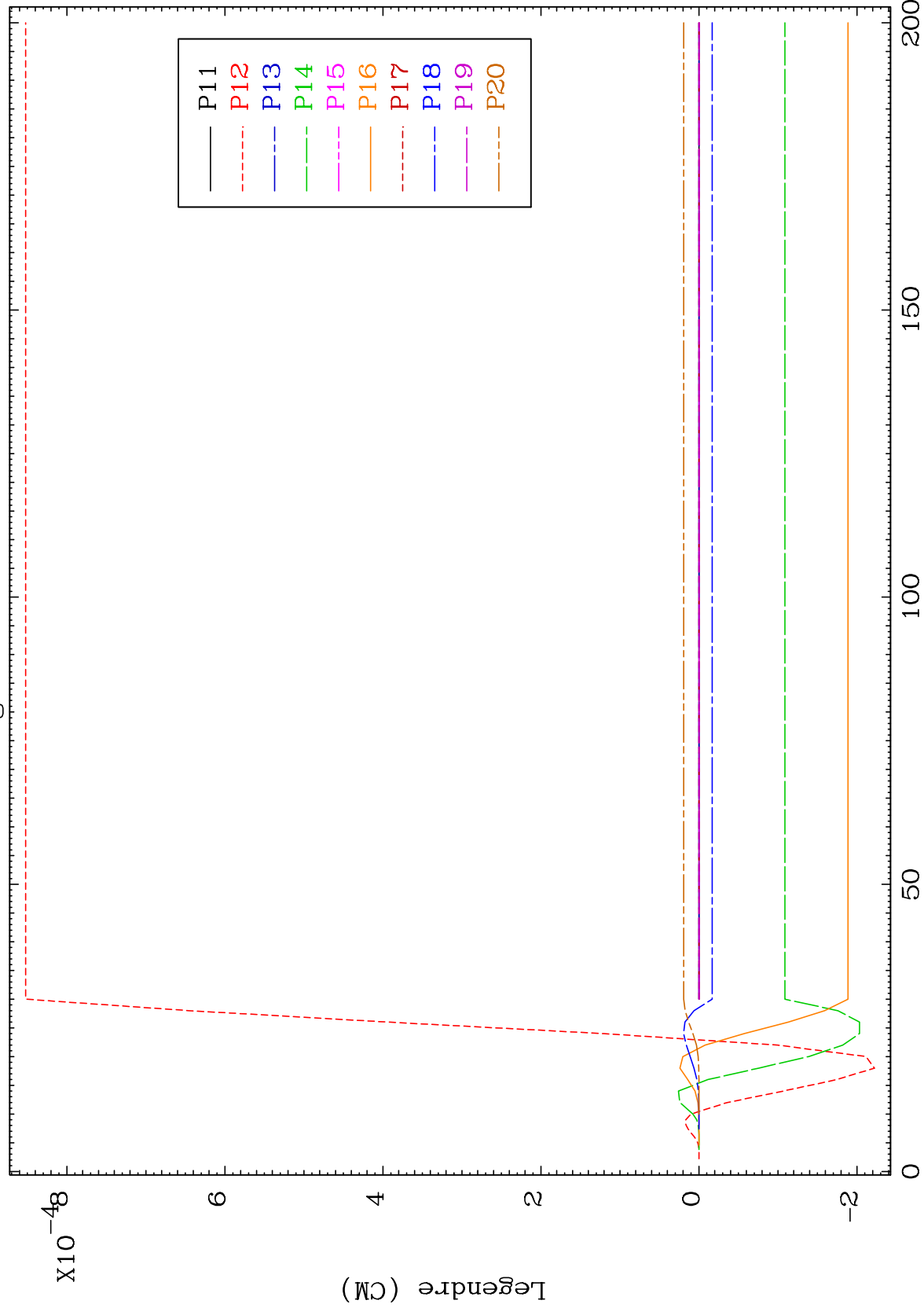
Incident Energy (MeV)

46

MAT 6449

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

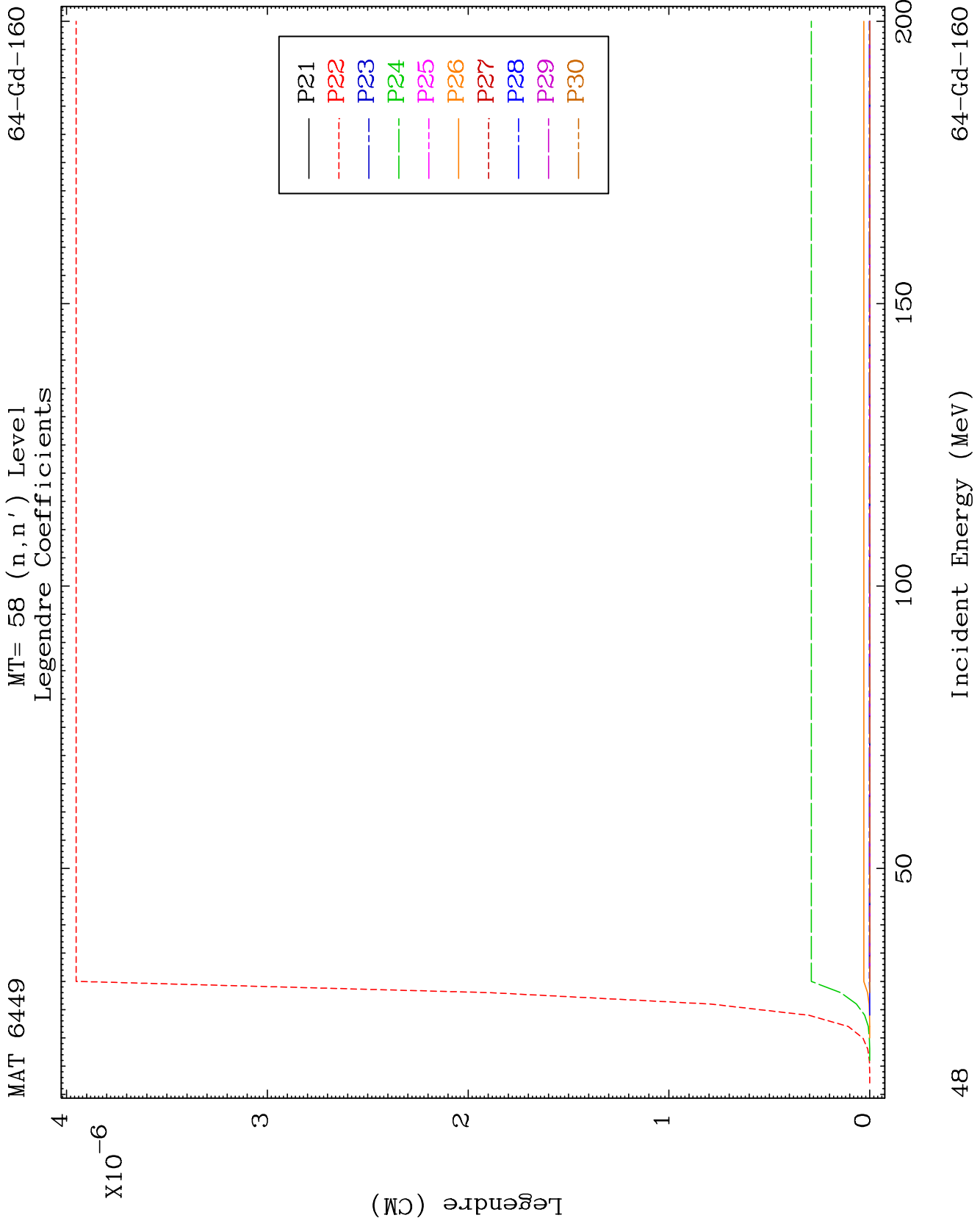
64-Gd-160



47

Incident Energy (MeV)

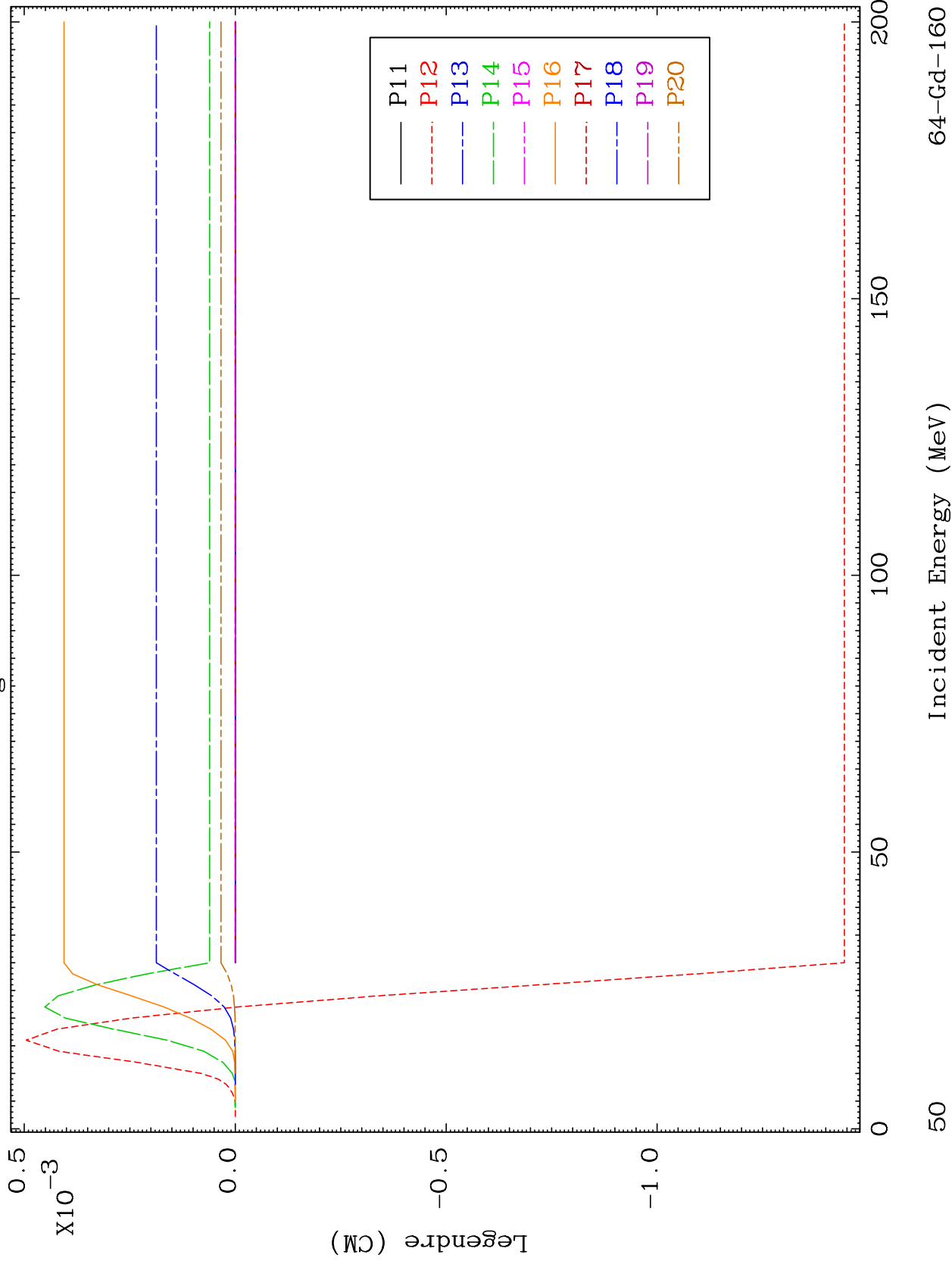
64-Gd-160



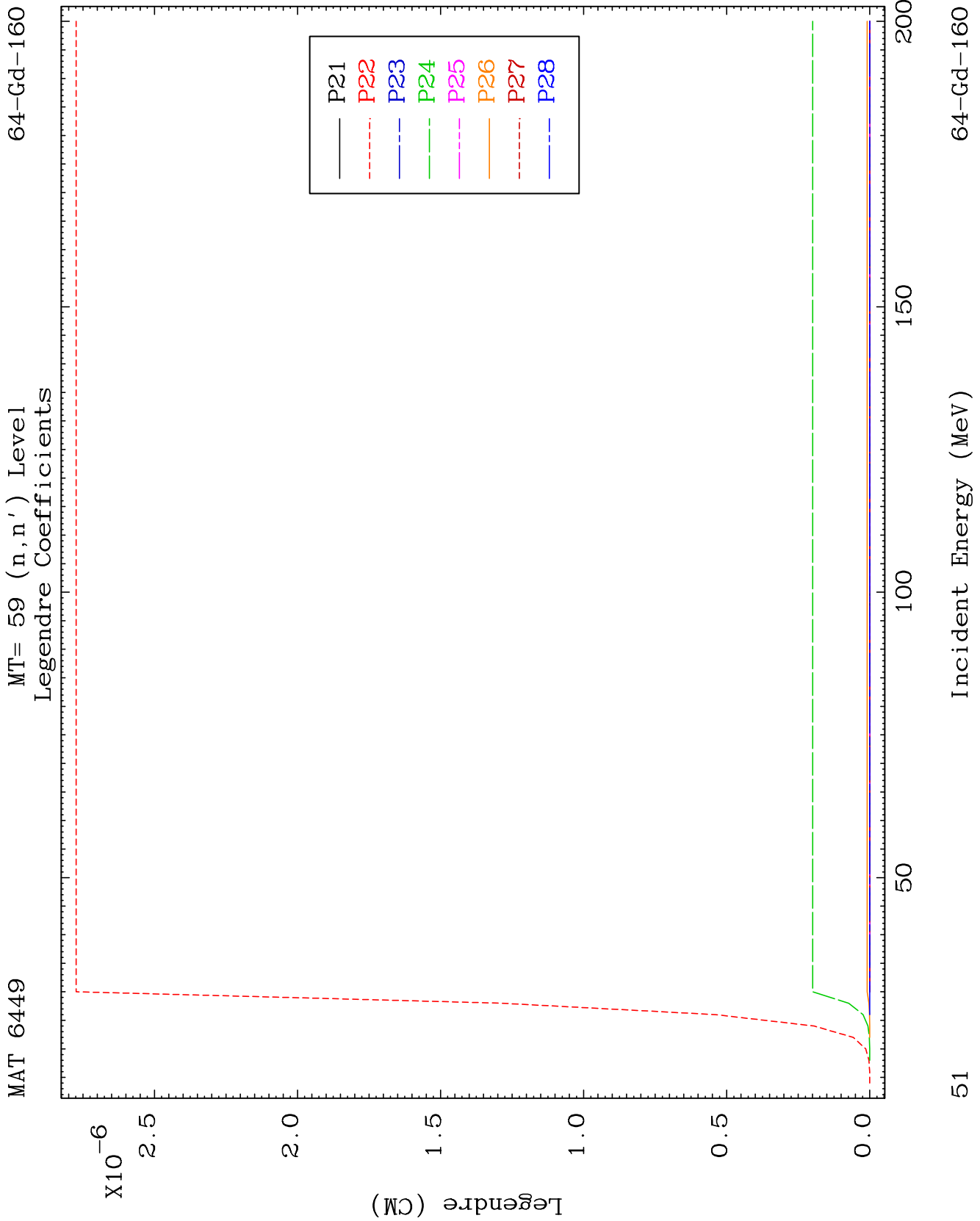
MAT 6449

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

64-Gd-160



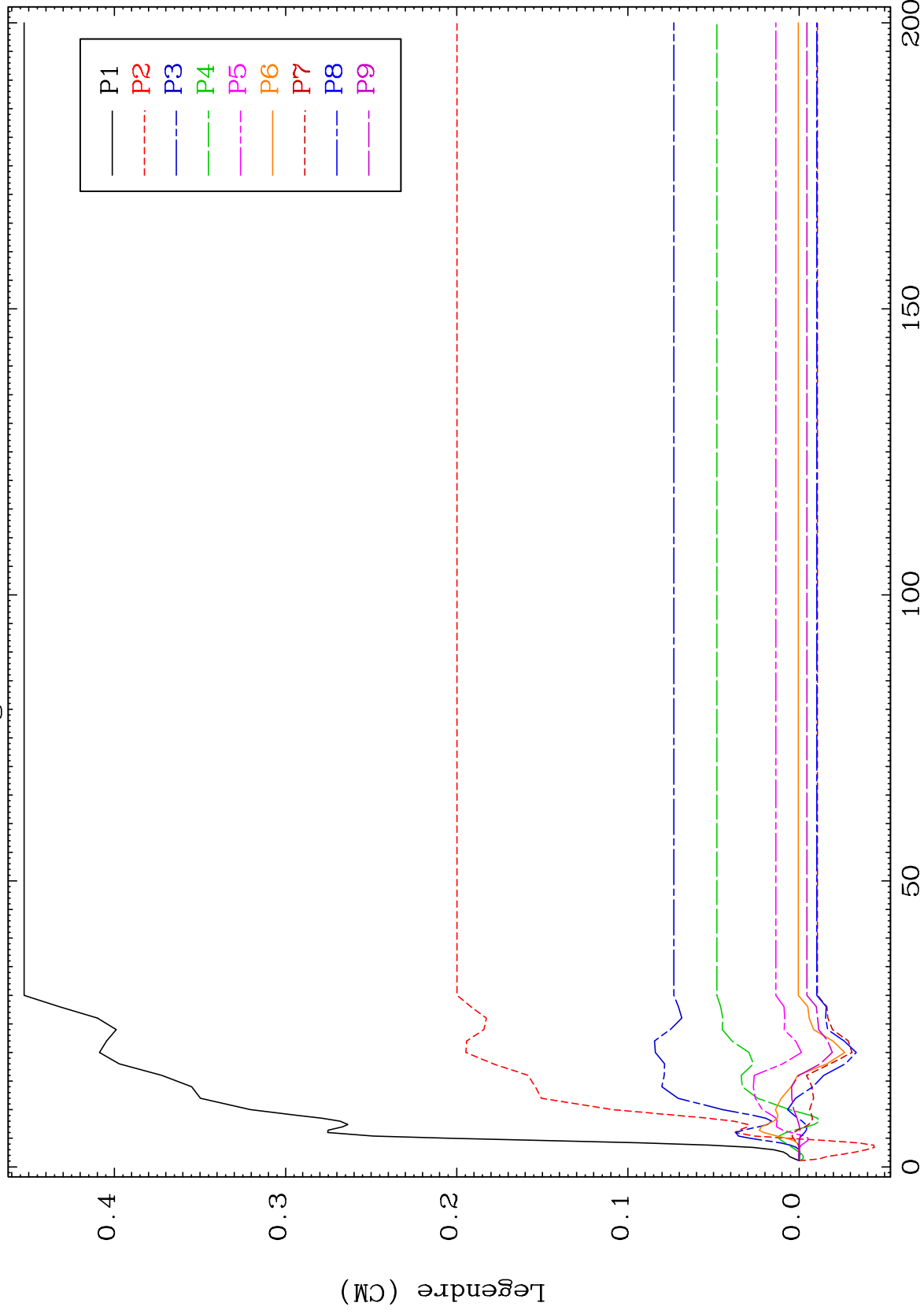
64-Gd-160



MAT 6449

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

64-Gd-160



52

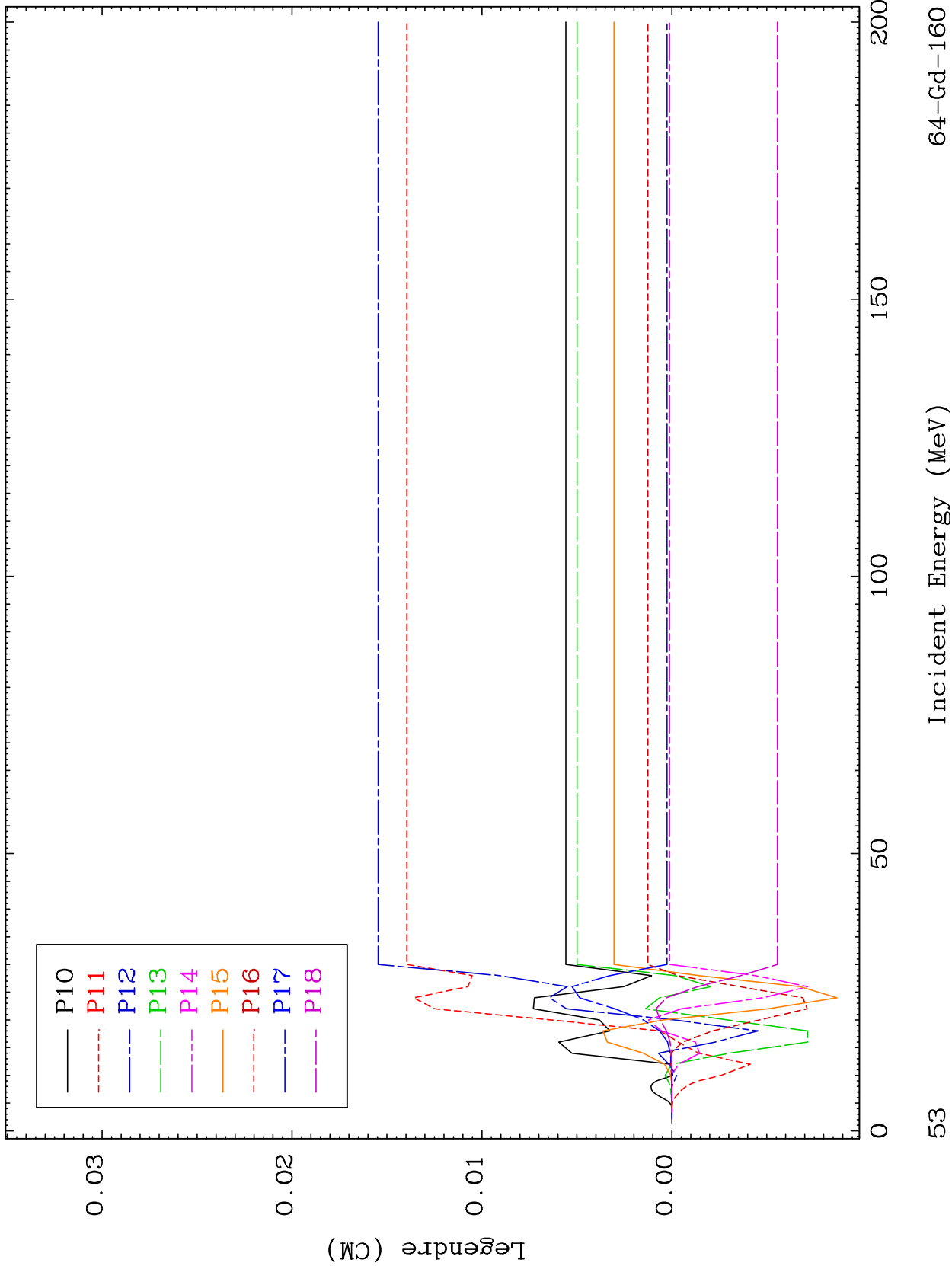
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160



53

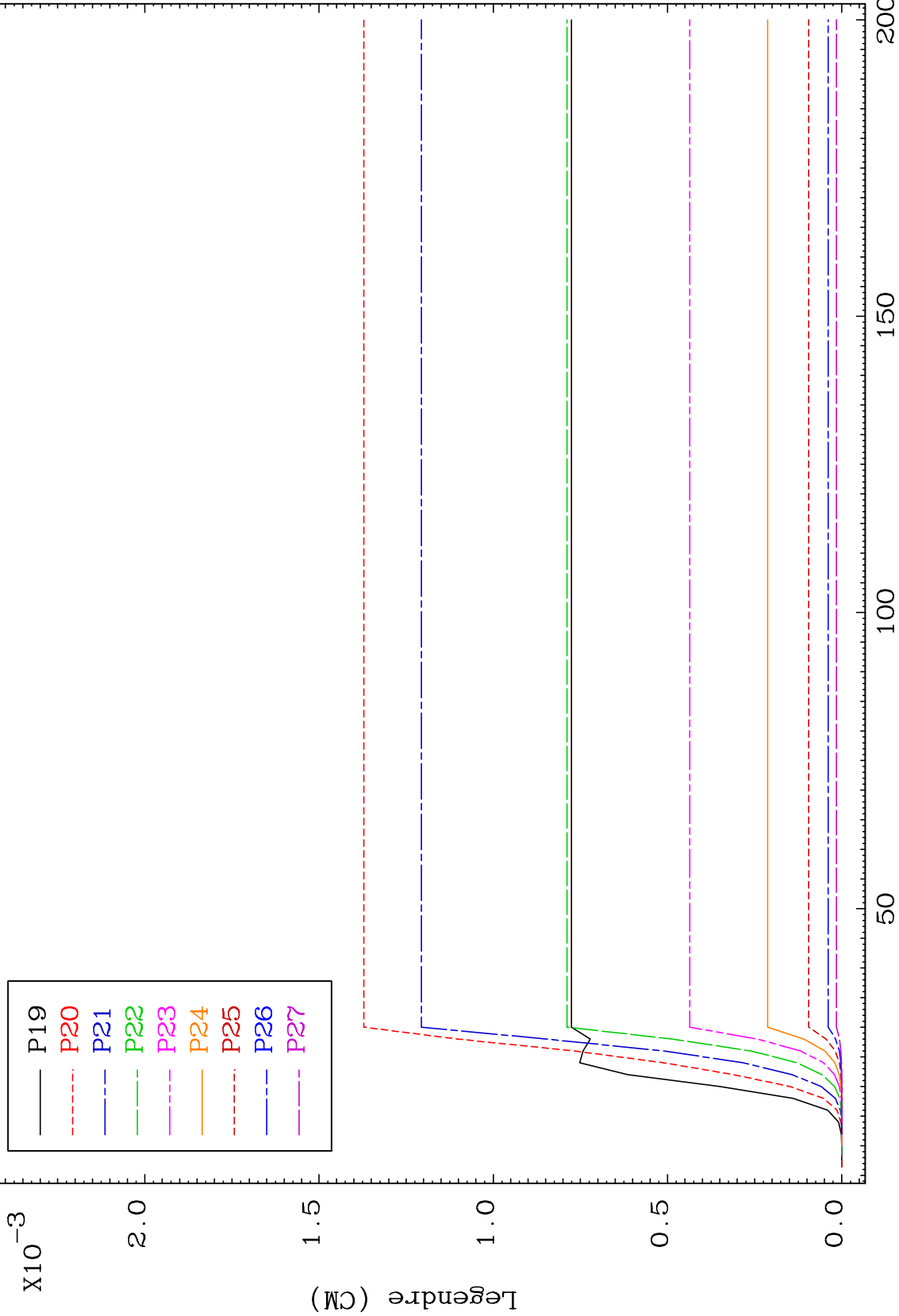
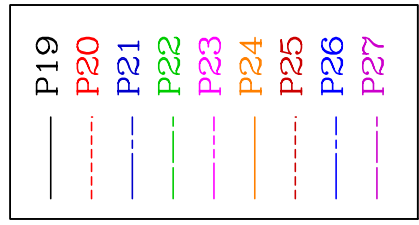
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

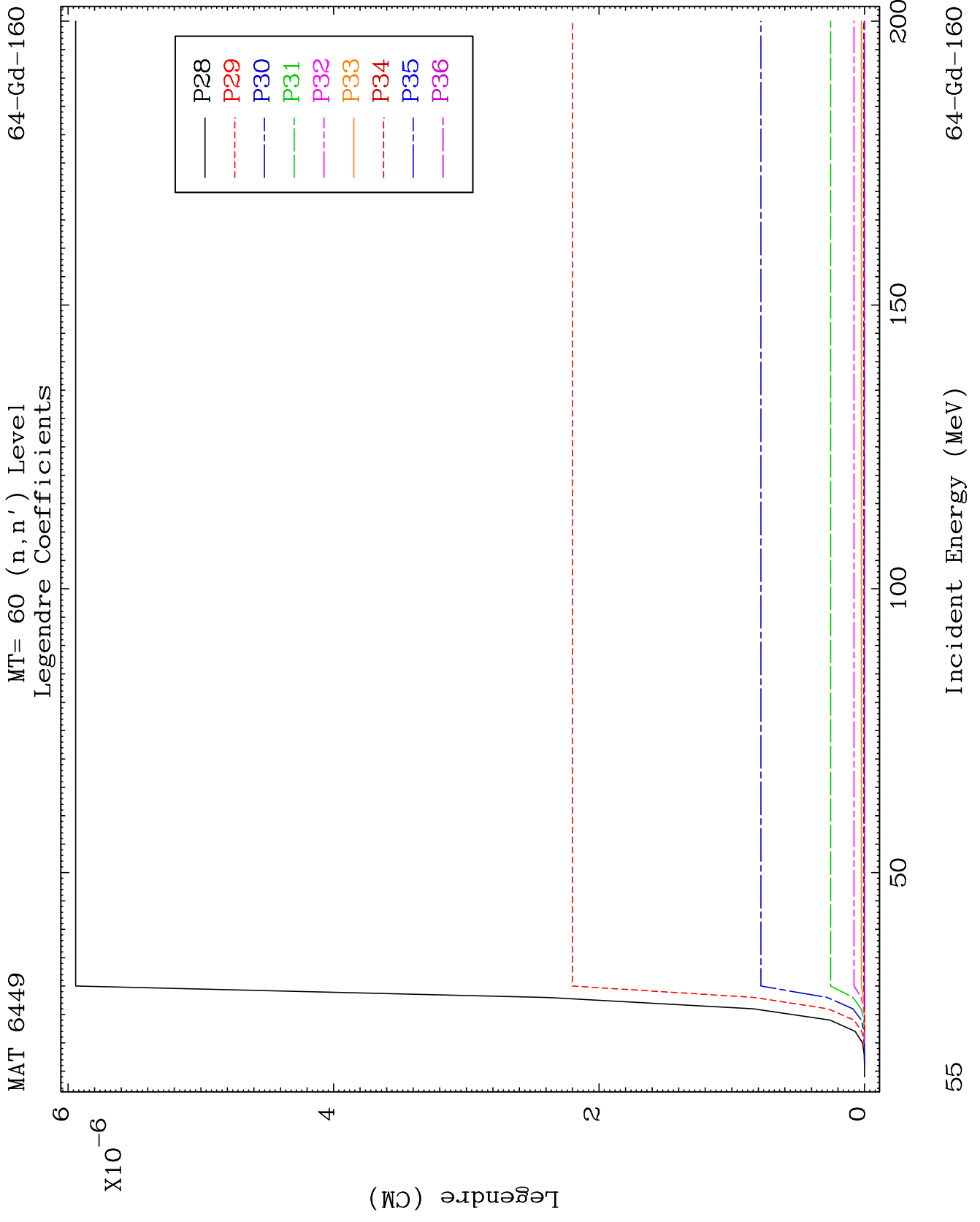
64-Gd-160



54

Incident Energy (MeV)

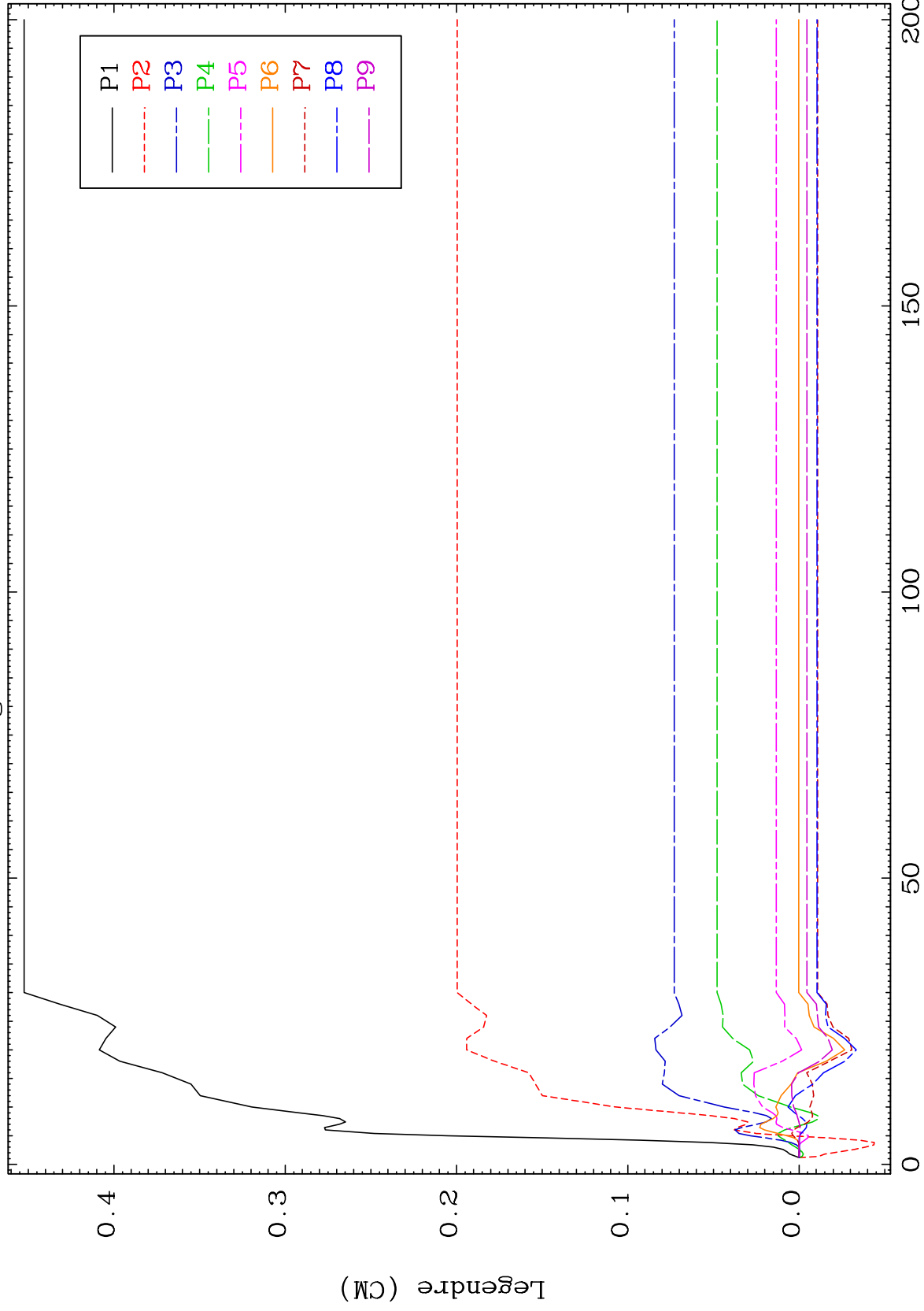
64-Gd-160



MAT 6449

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

64-Gd-160



56

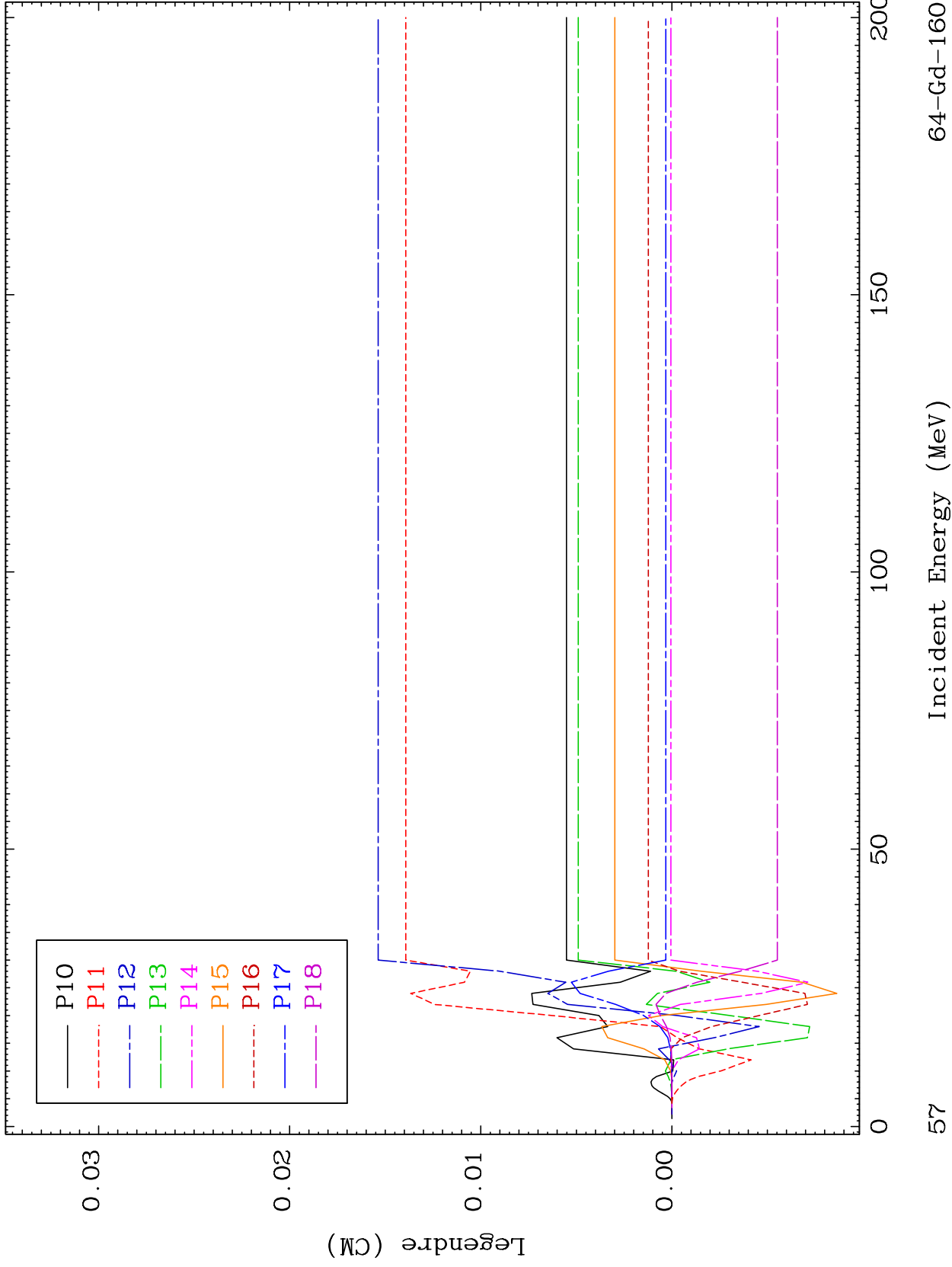
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160



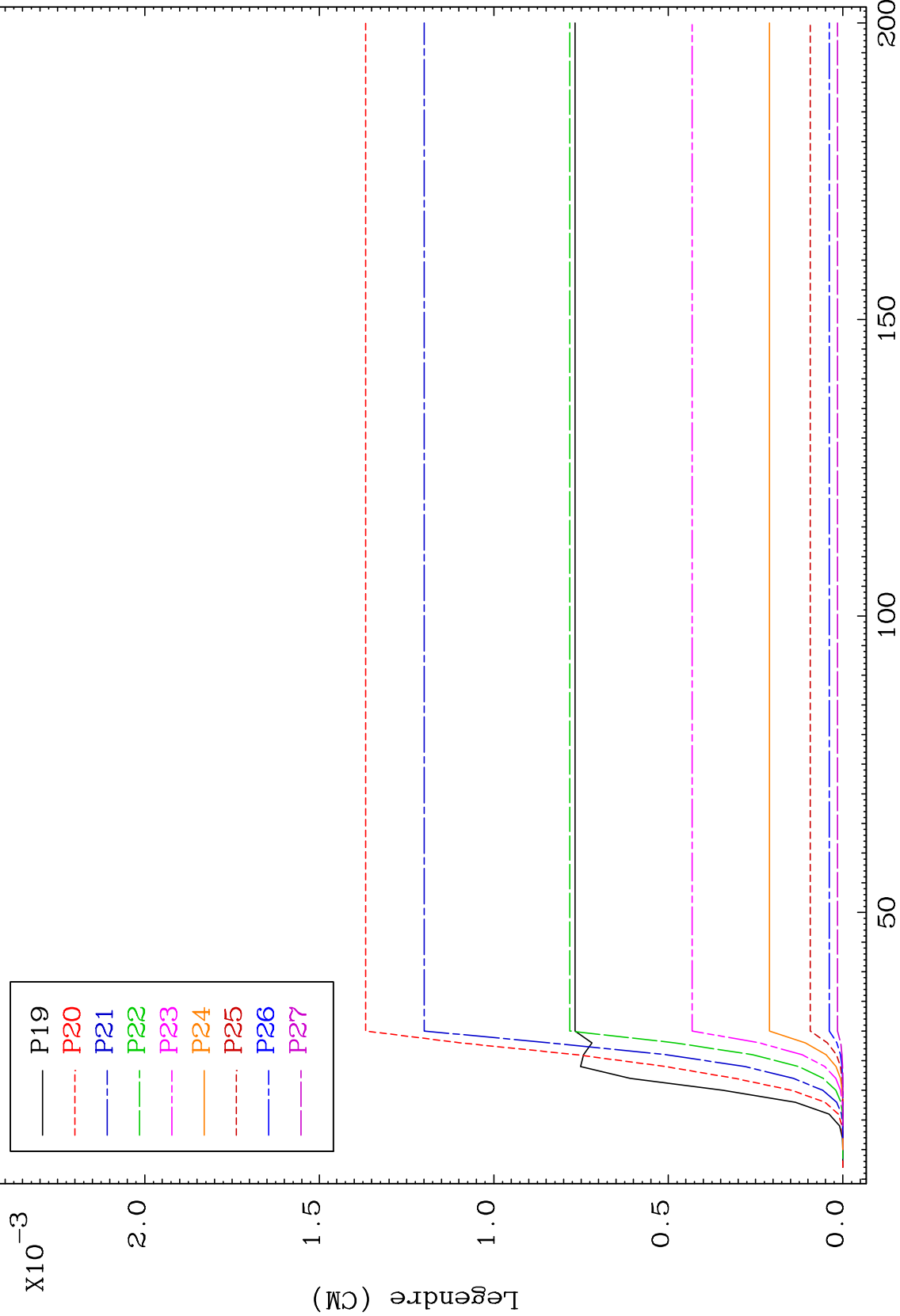
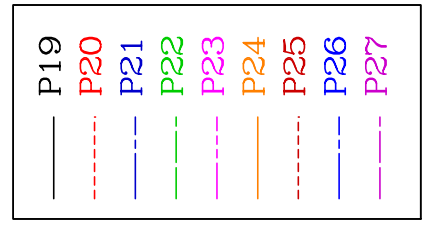
57

64-Gd-160

MAT 6449

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

64-Gd-160



58

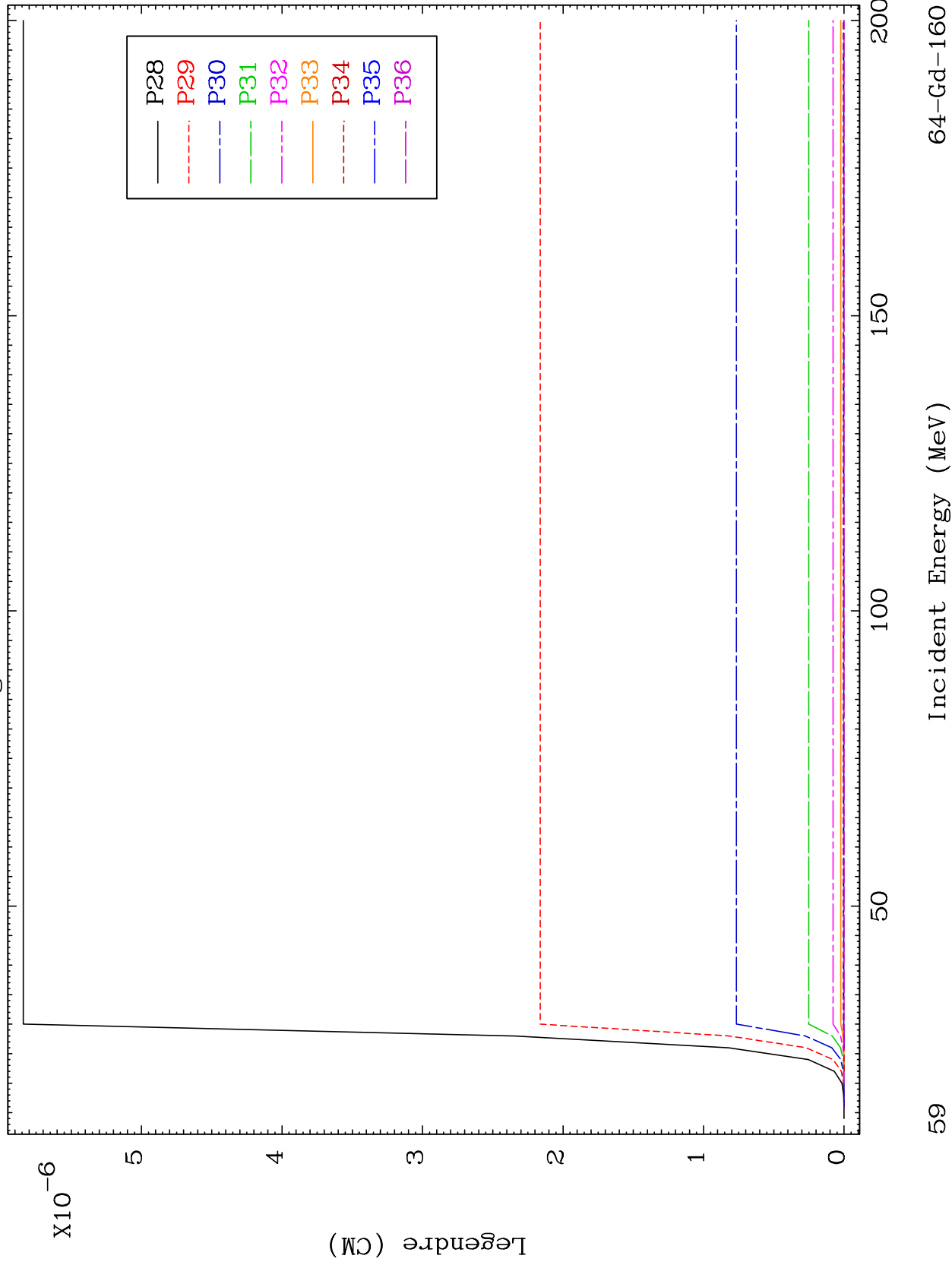
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160



59

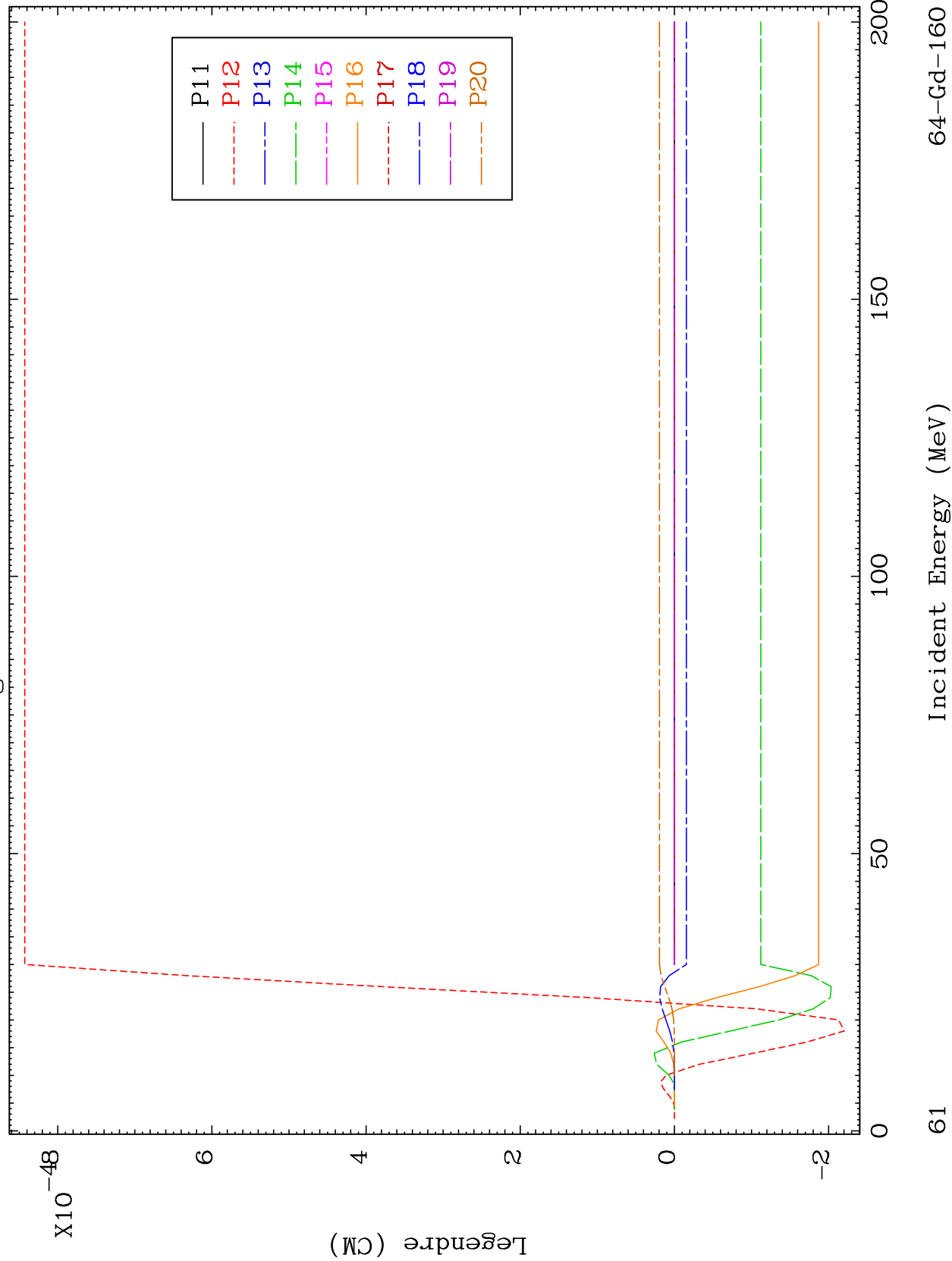
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

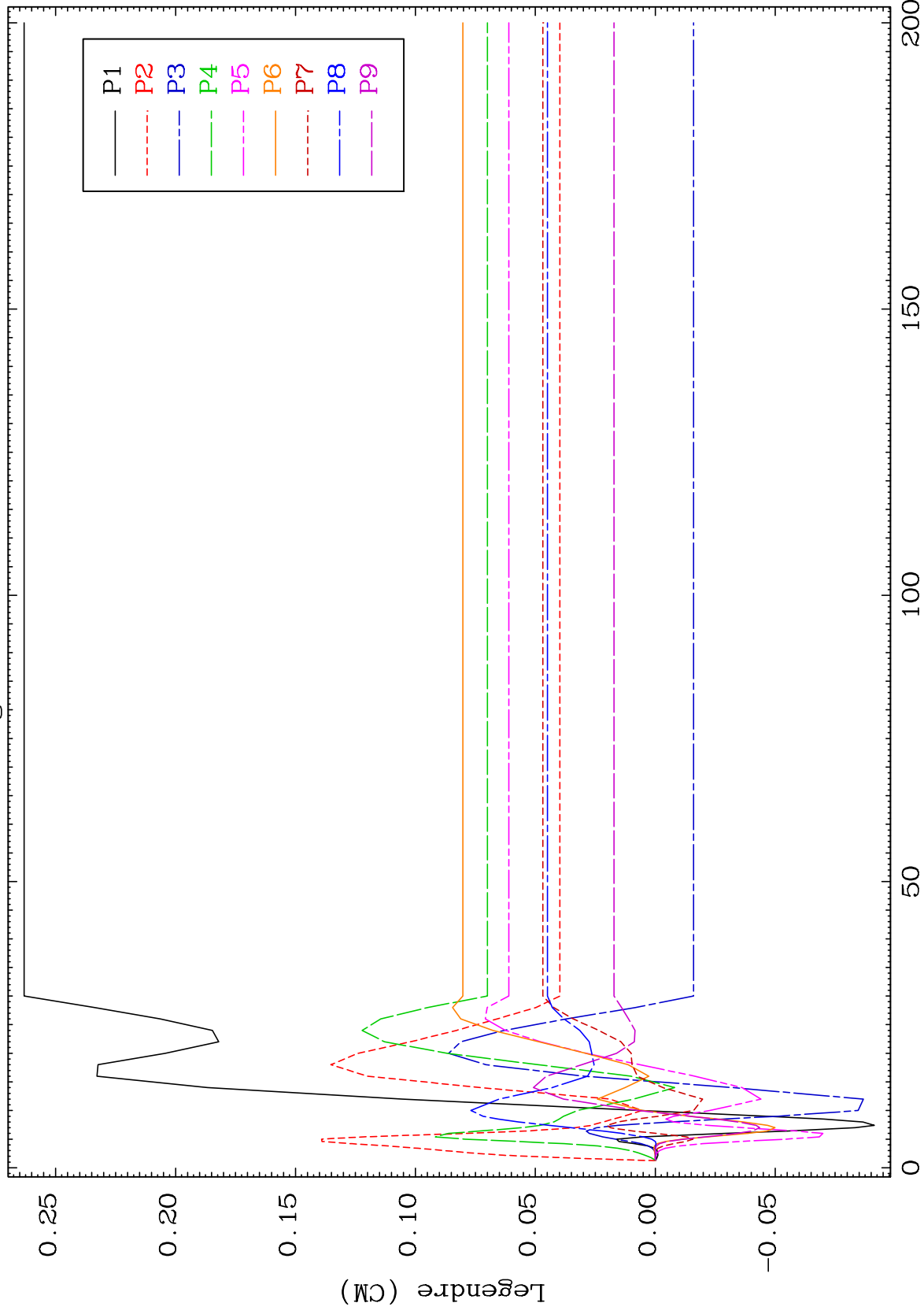
64-Gd-160



MAT 6449

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

64-Gd-160



63

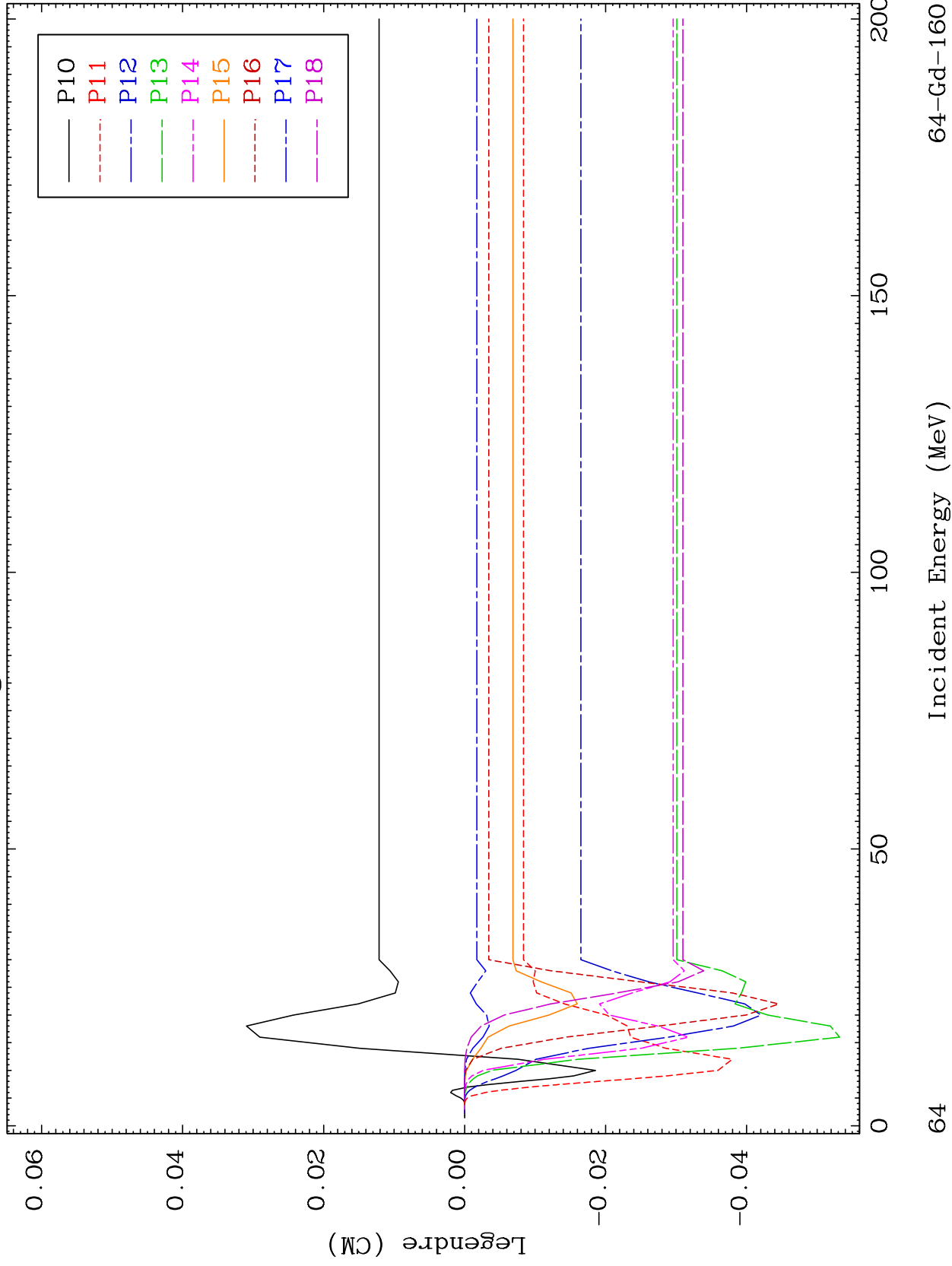
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160



64-Gd-160

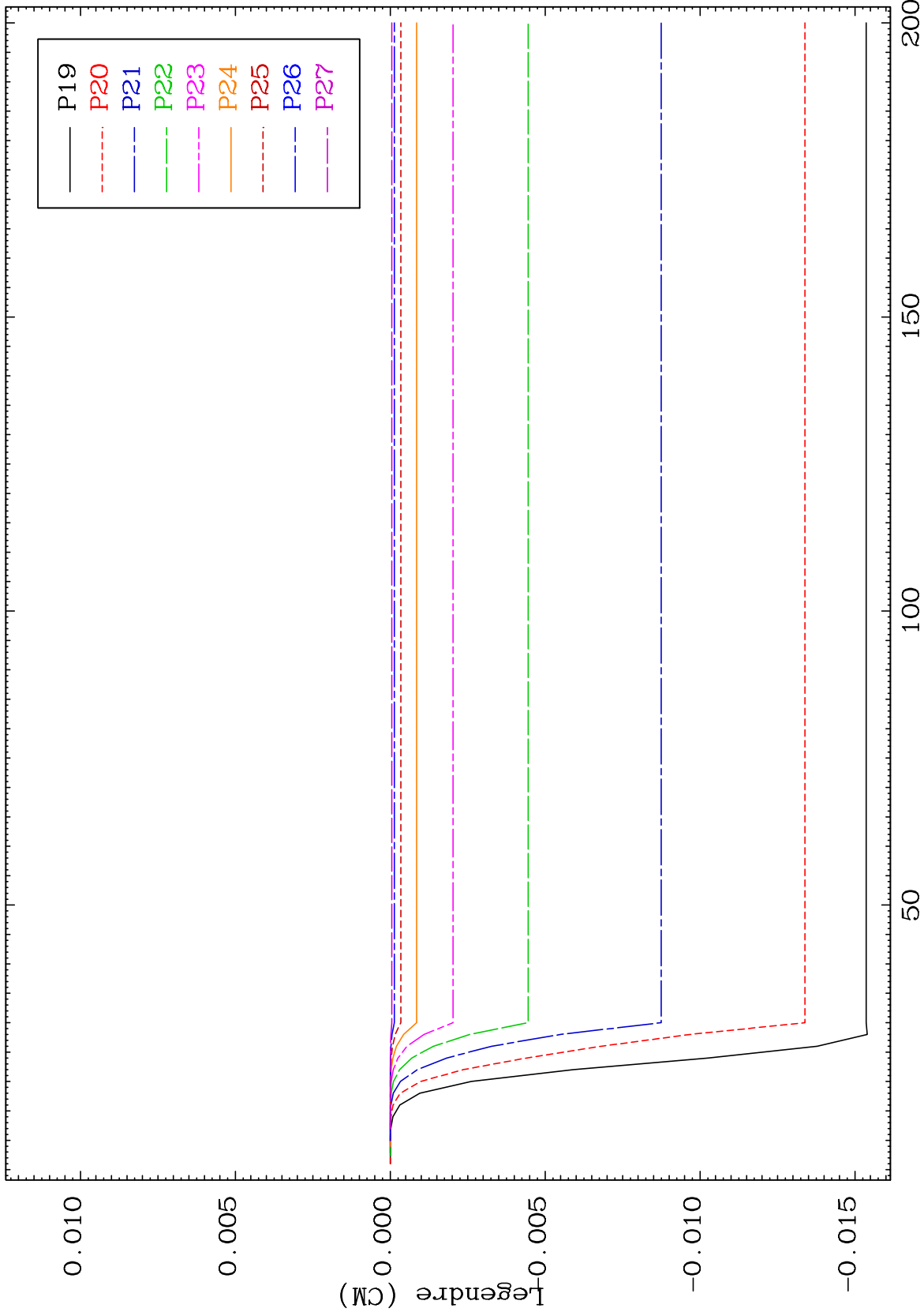
Incident Energy (MeV)

64

MAT 6449

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

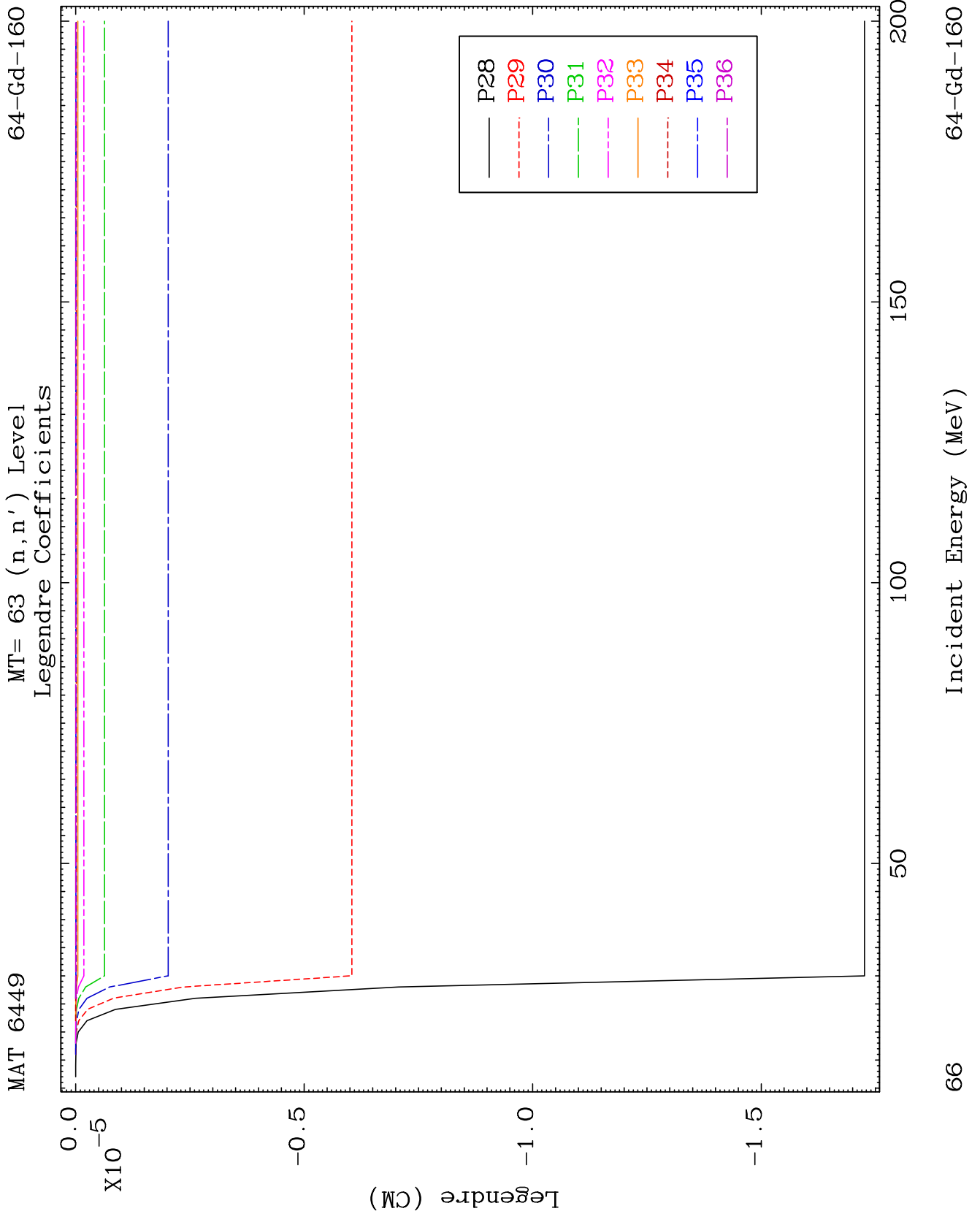
64-Gd-160



65

Incident Energy (MeV)

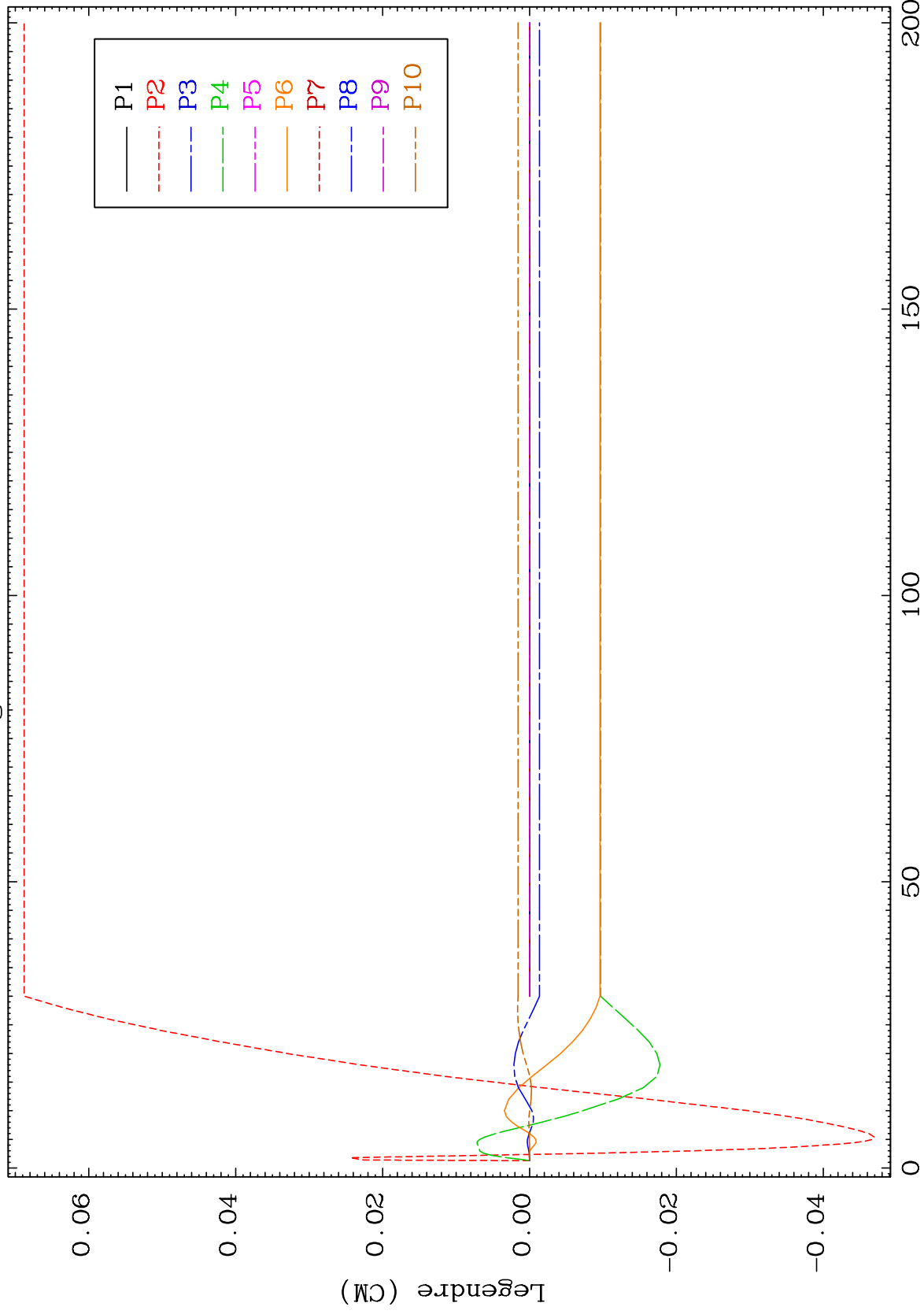
64-Gd-160



MAT 6449

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

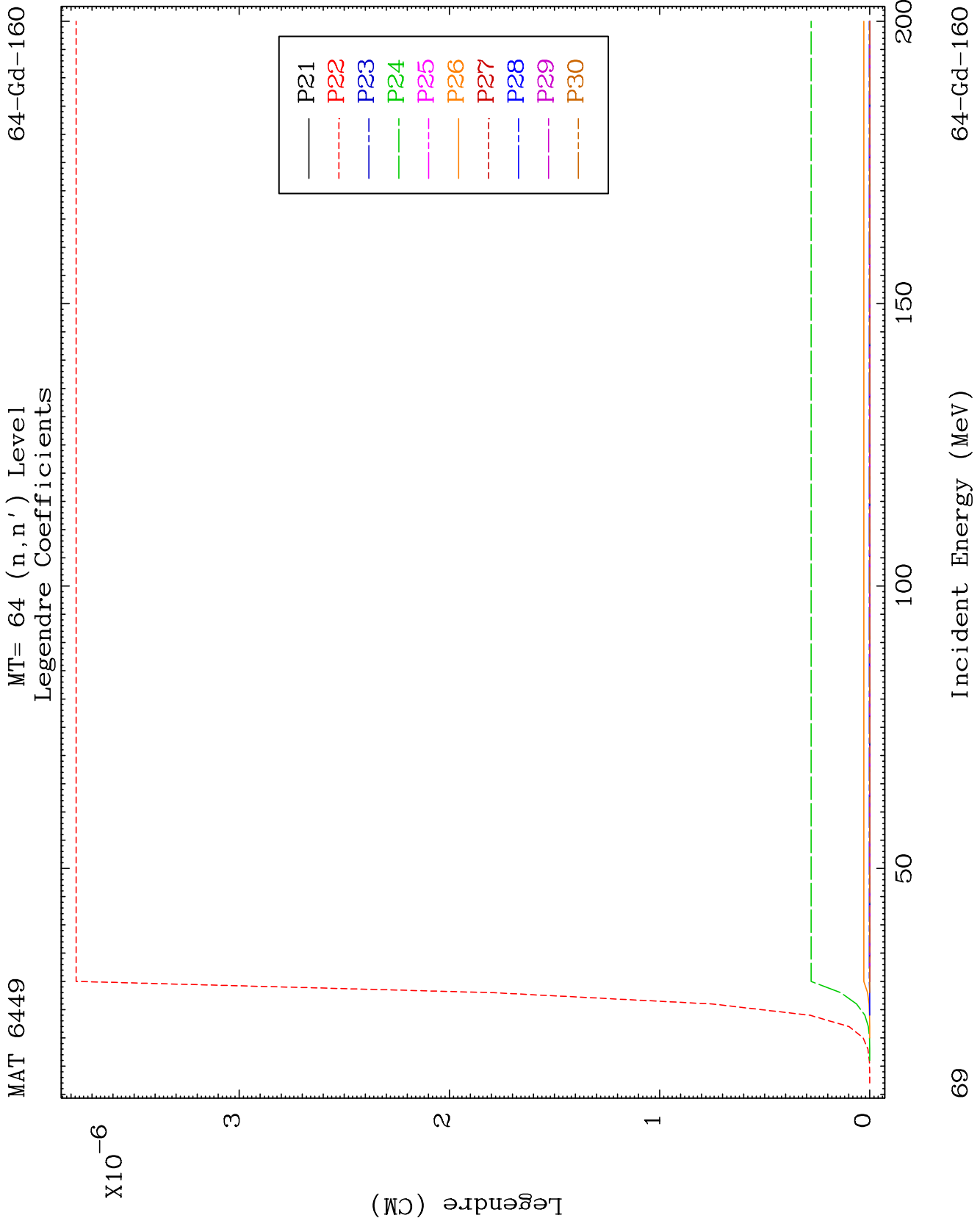
64-Gd-160



64-Gd-160

Incident Energy (MeV)

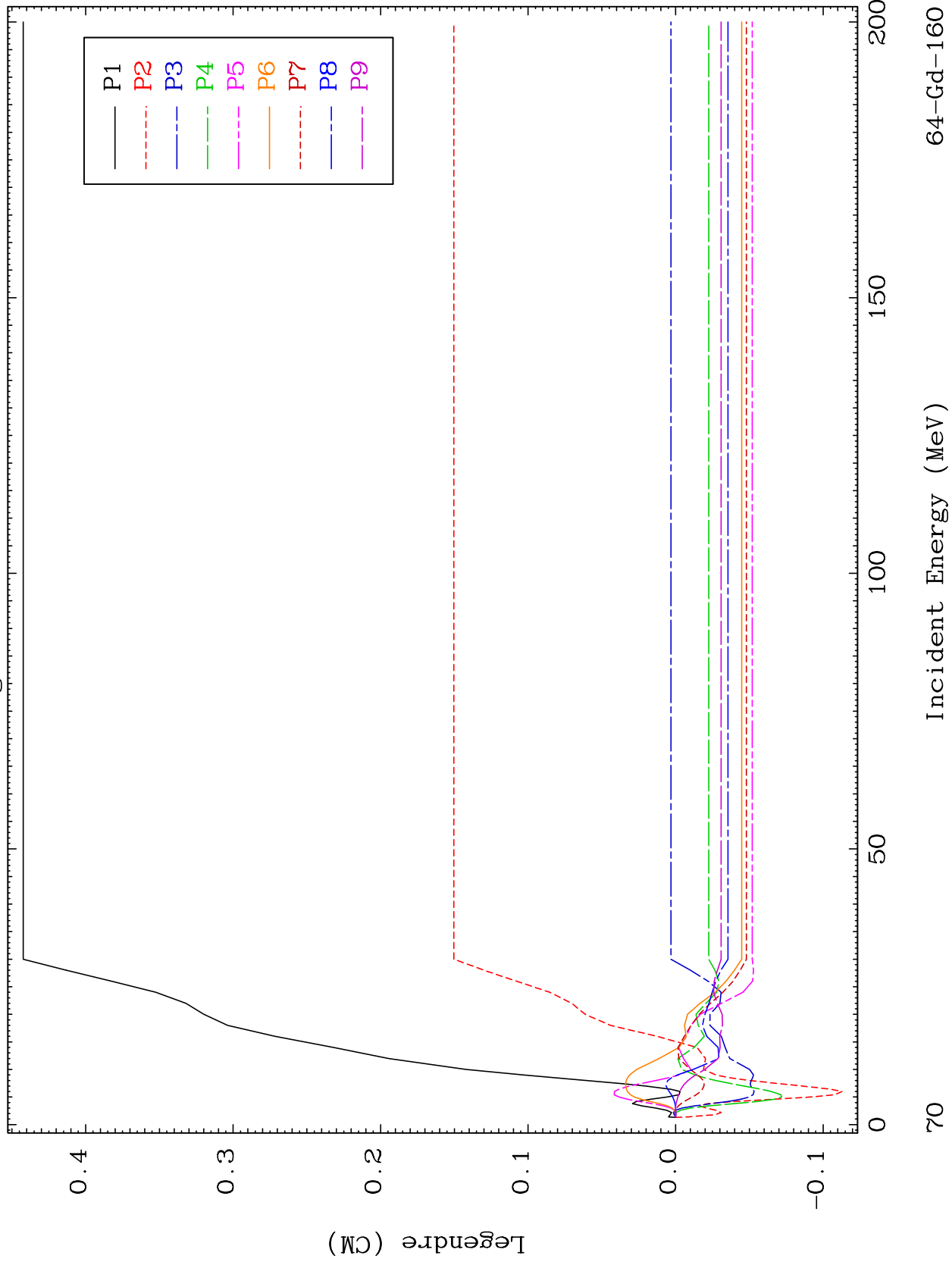
67



MAT 6449

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

64-Gd-160



64-Gd-160

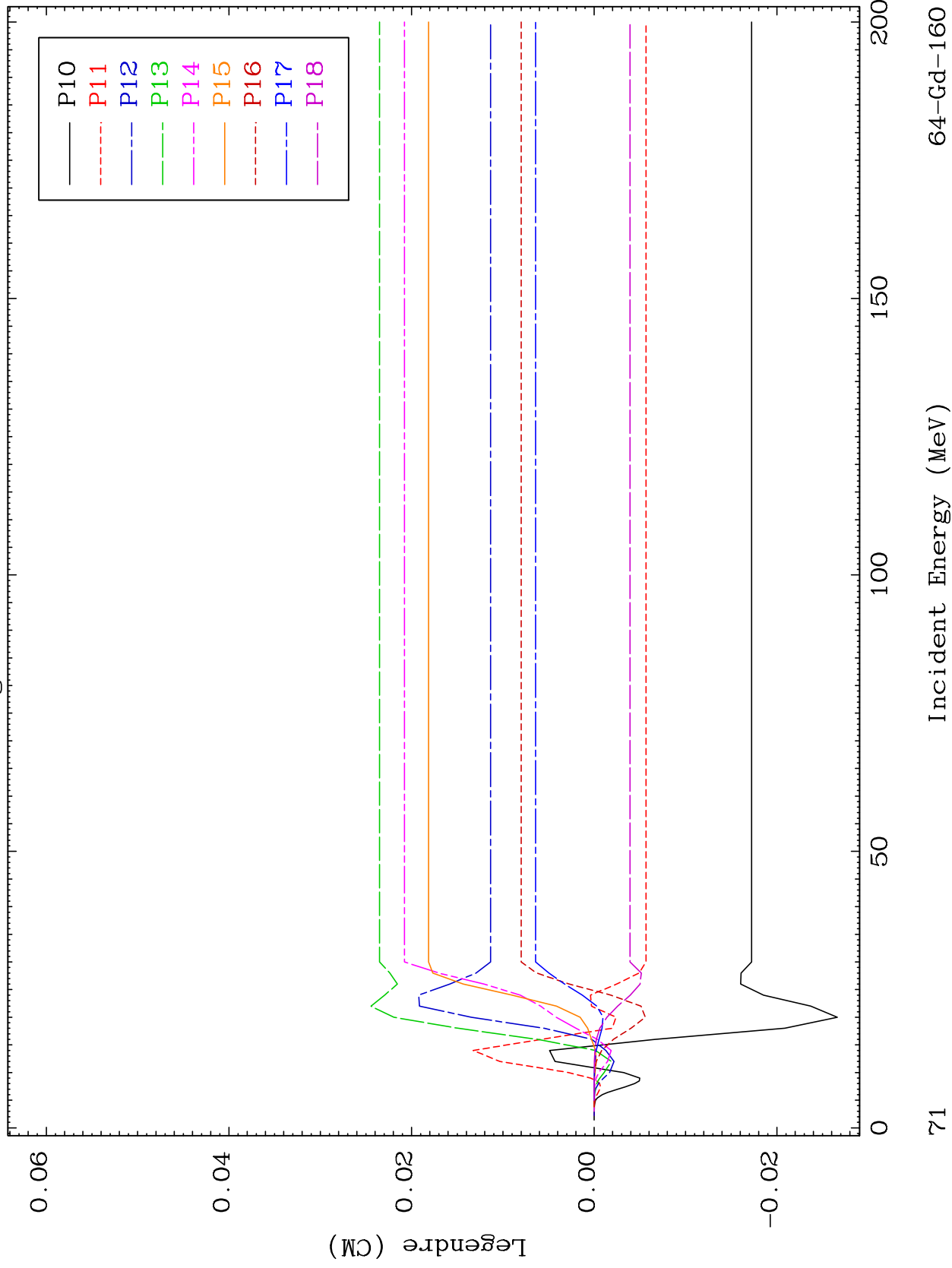
Incident Energy (MeV)

70

MAT 6449

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

64-Gd-160



71

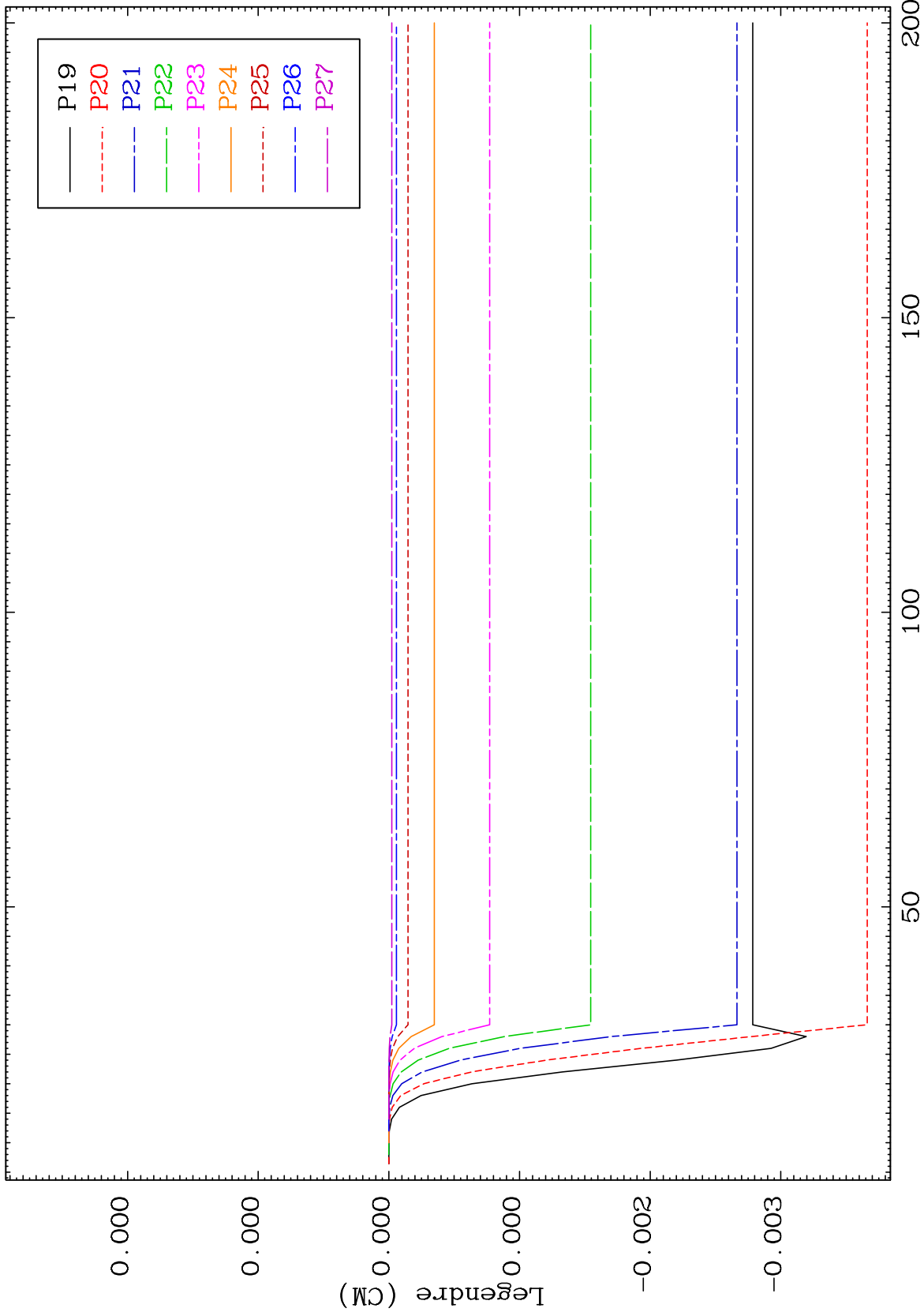
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160



72

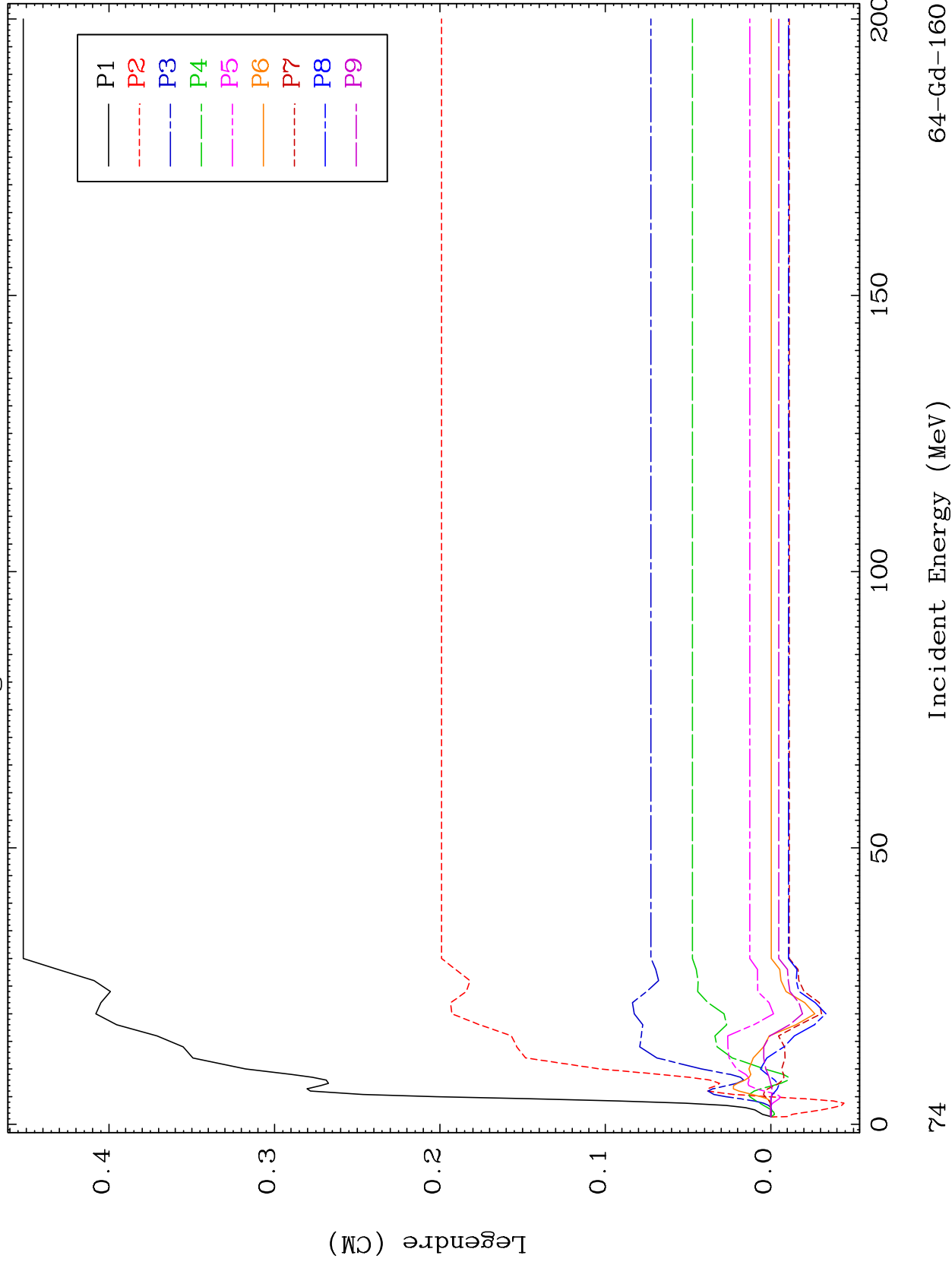
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160



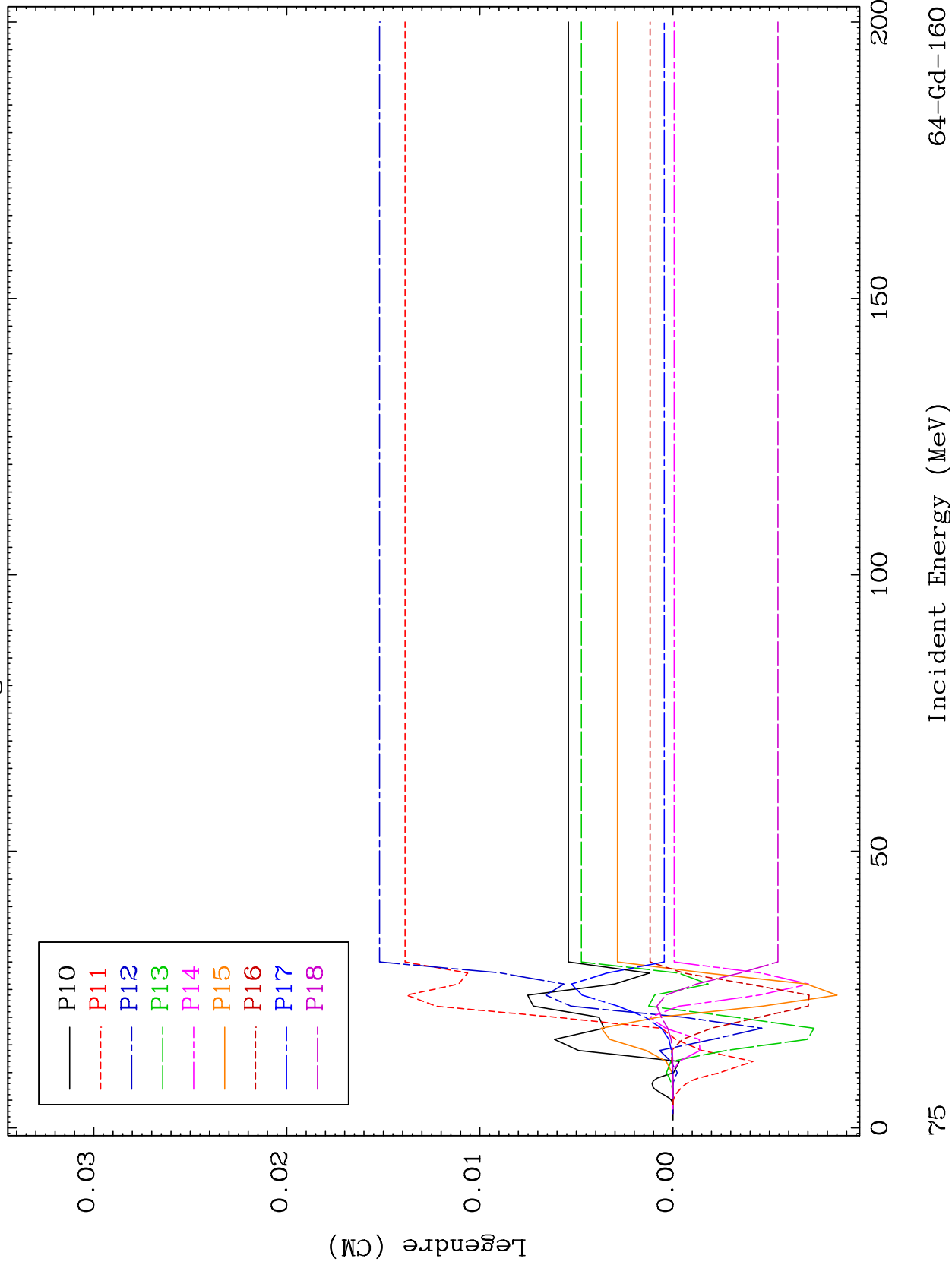
74

64-Gd-160

MAT 6449

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

64-Gd-160



64-Gd-160

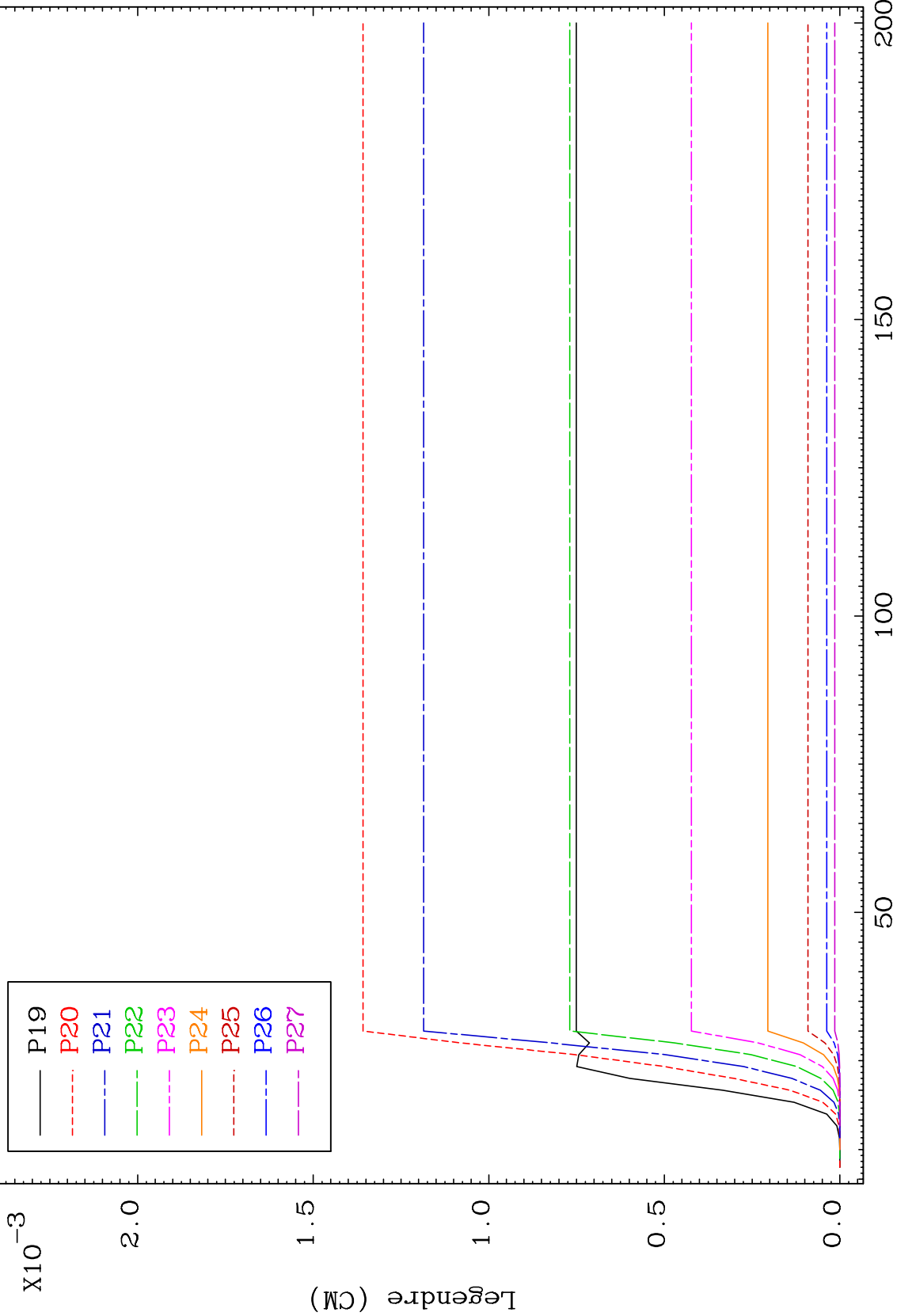
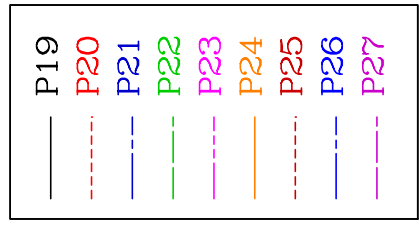
Incident Energy (MeV)

75

MAT 6449

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

64-Gd-160



76

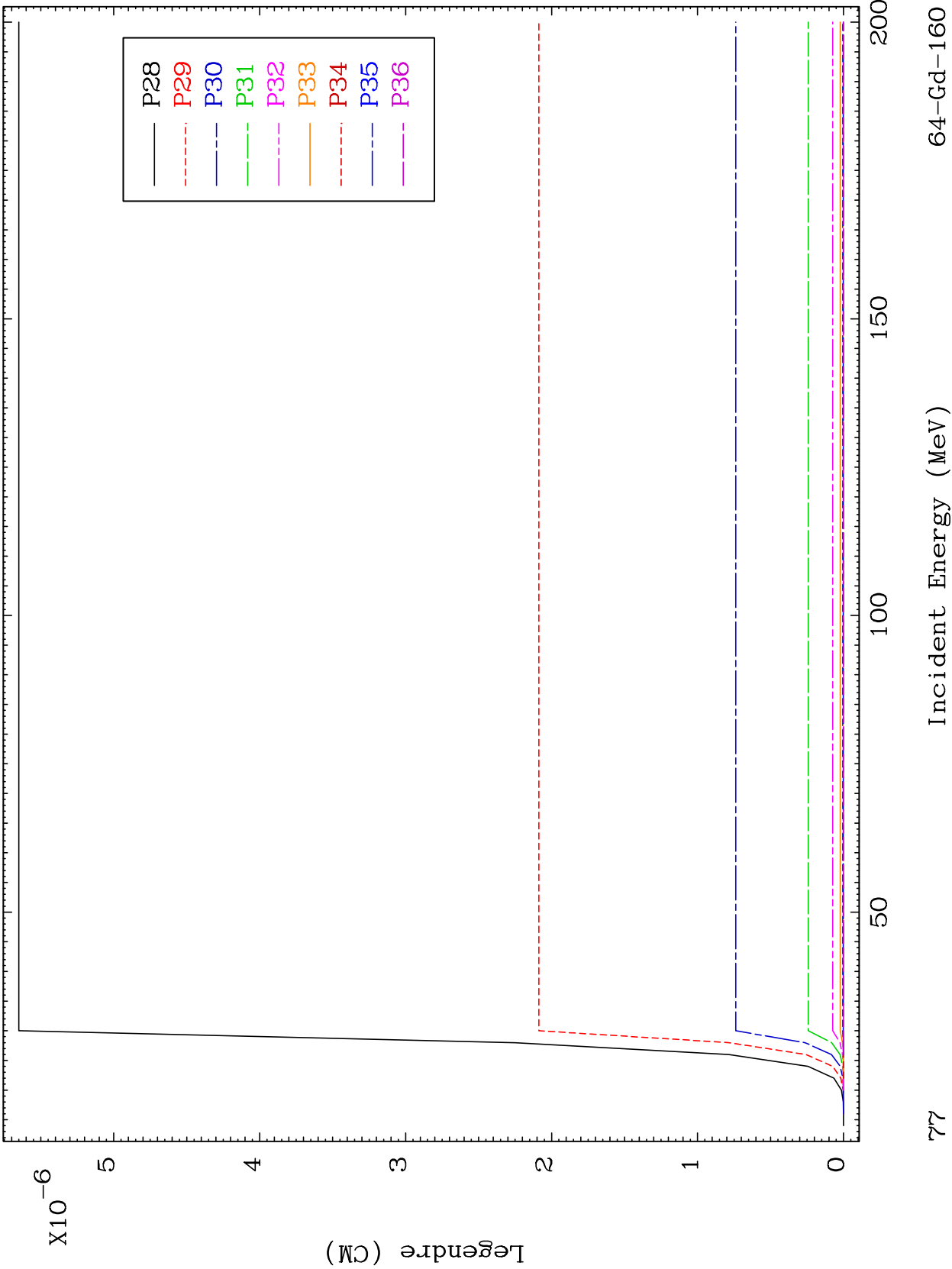
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160



77

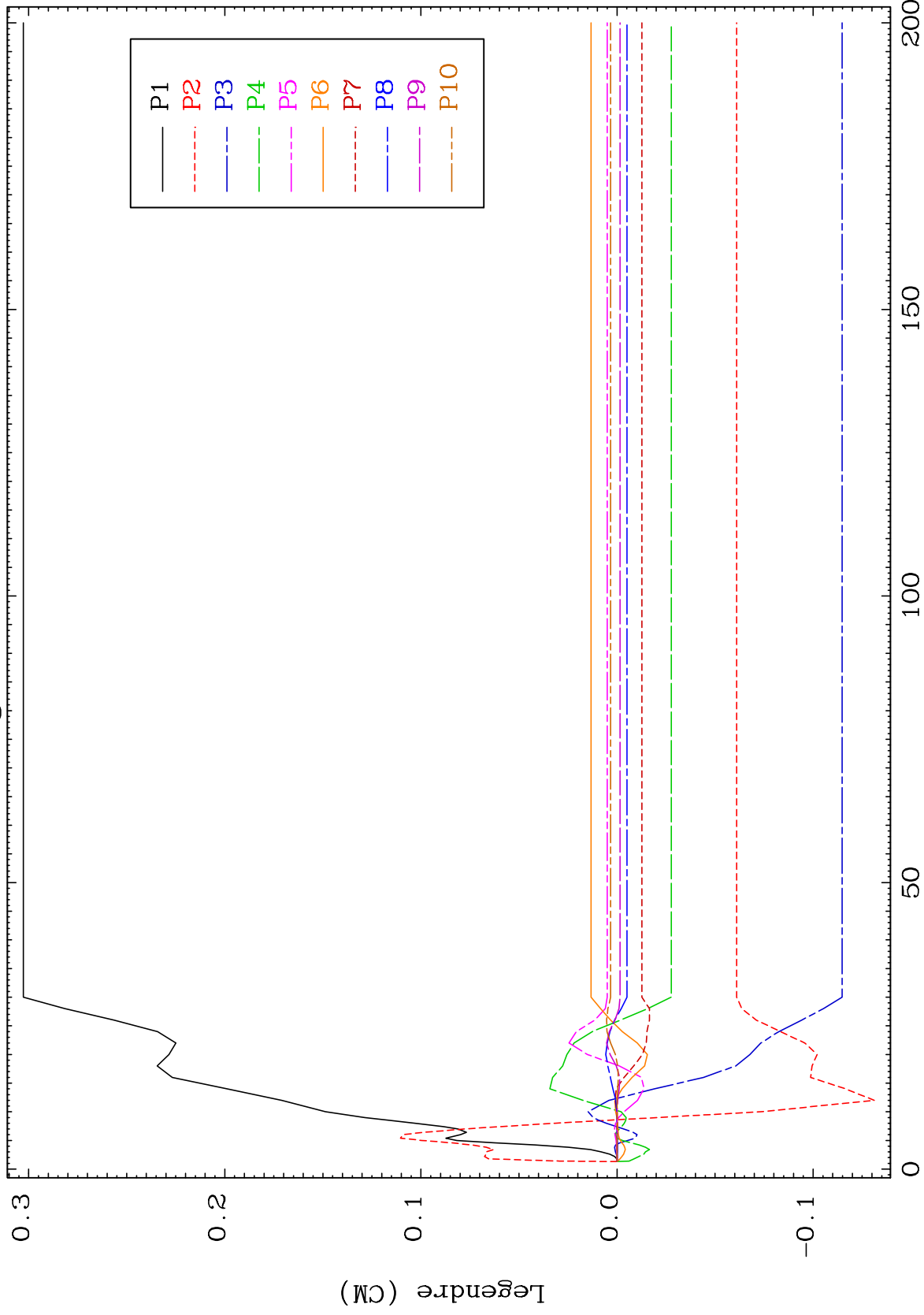
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160



78

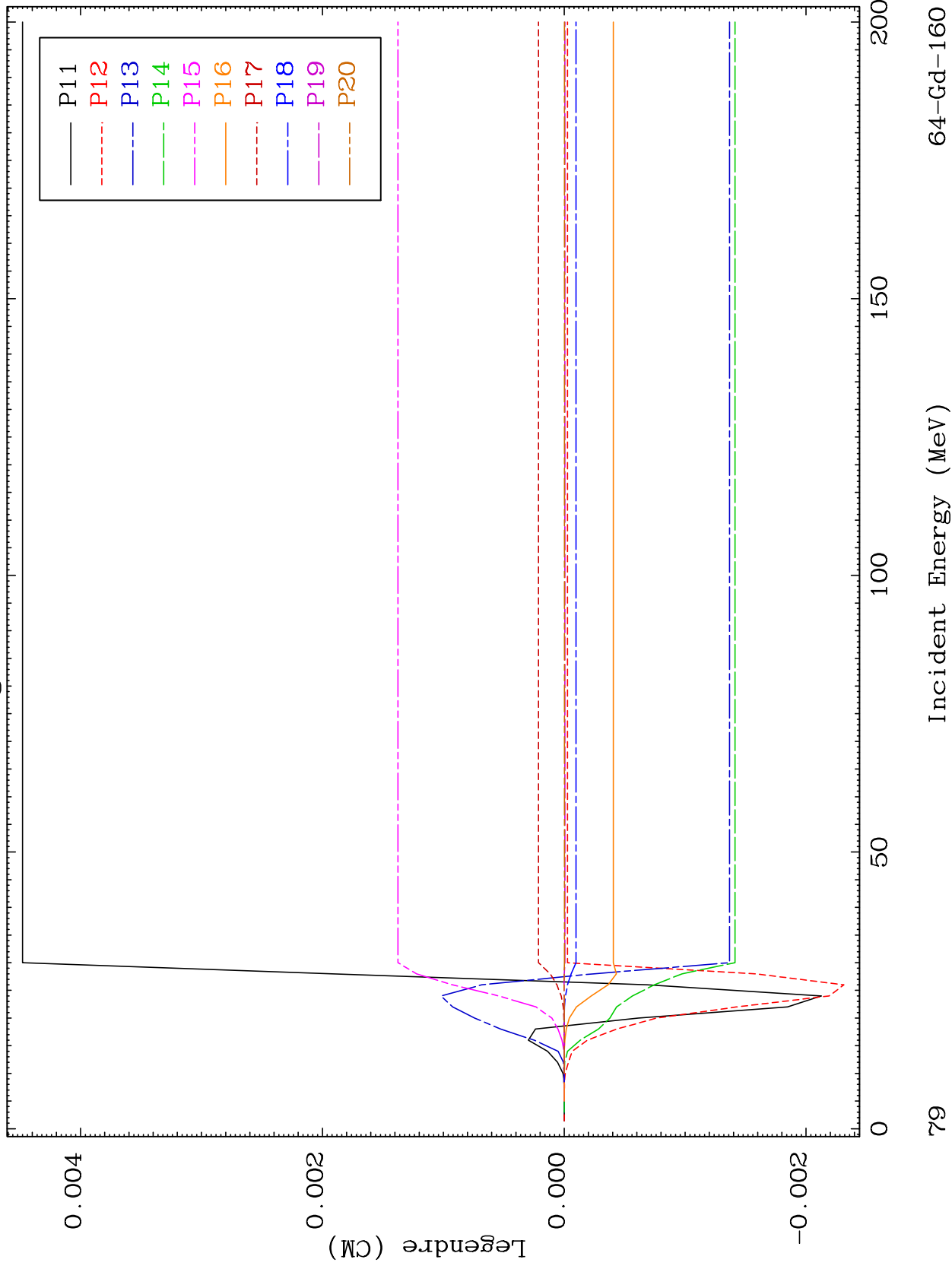
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160



79

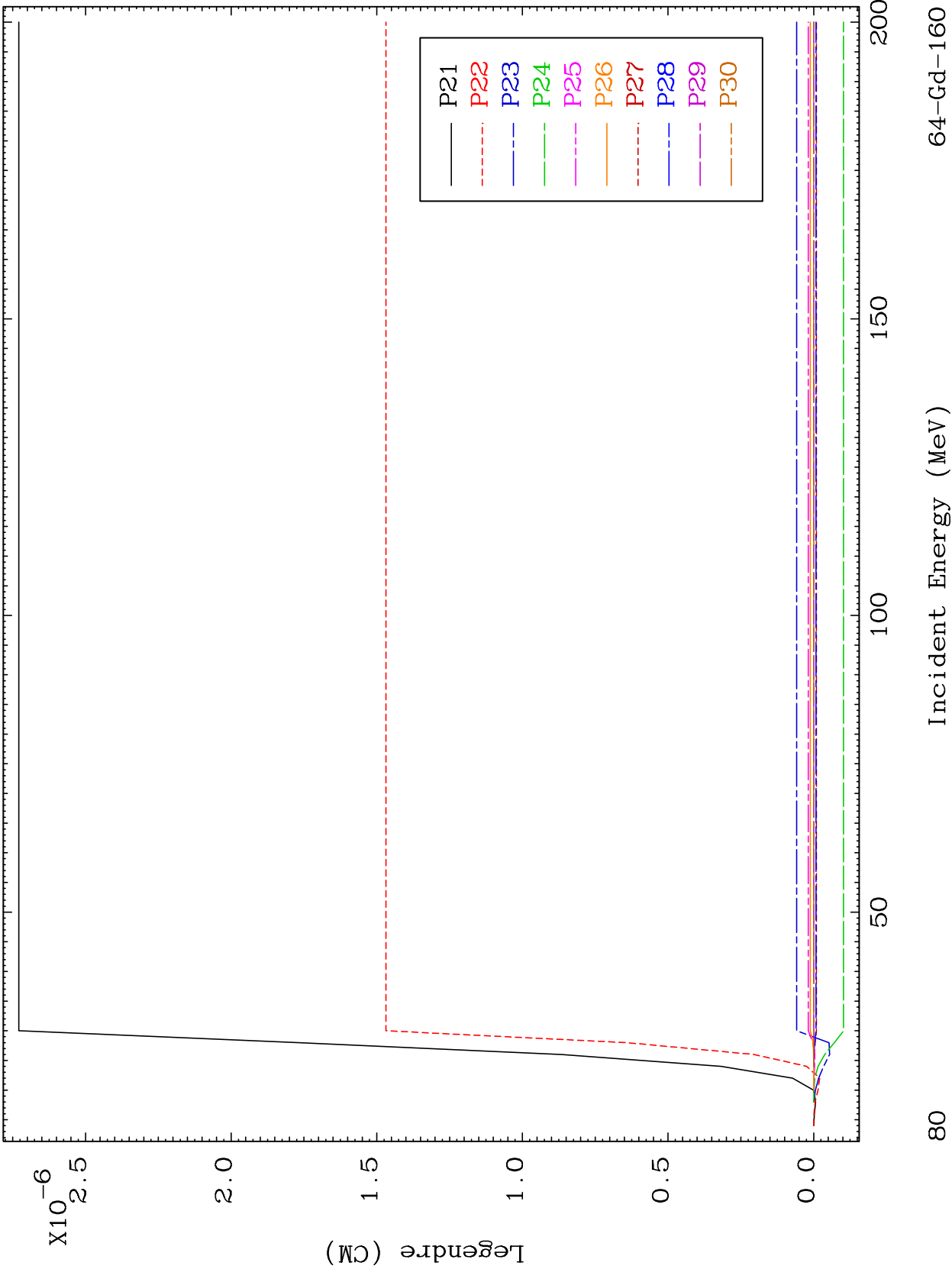
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160



80

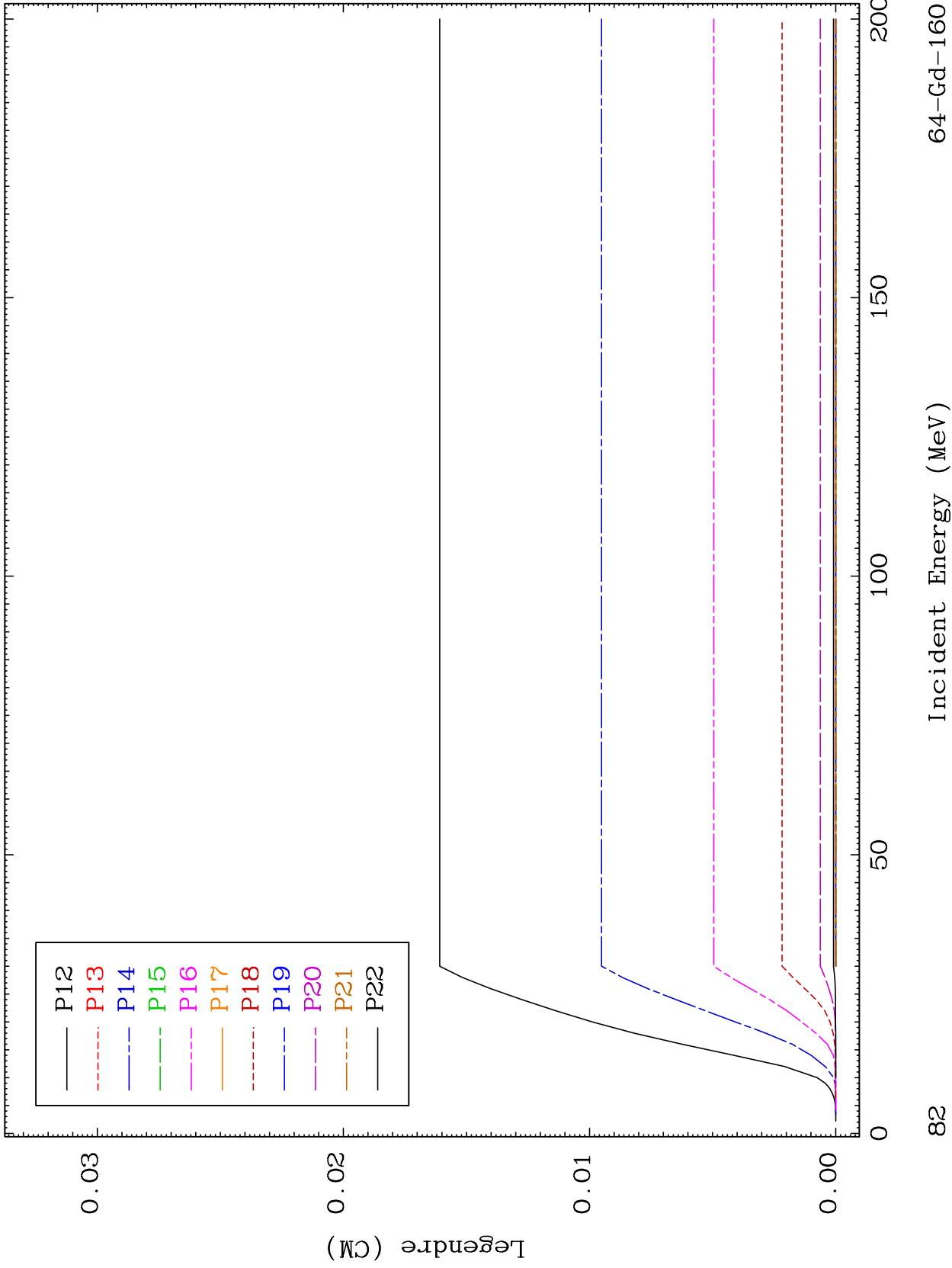
Incident Energy (MeV)

64-Gd-160

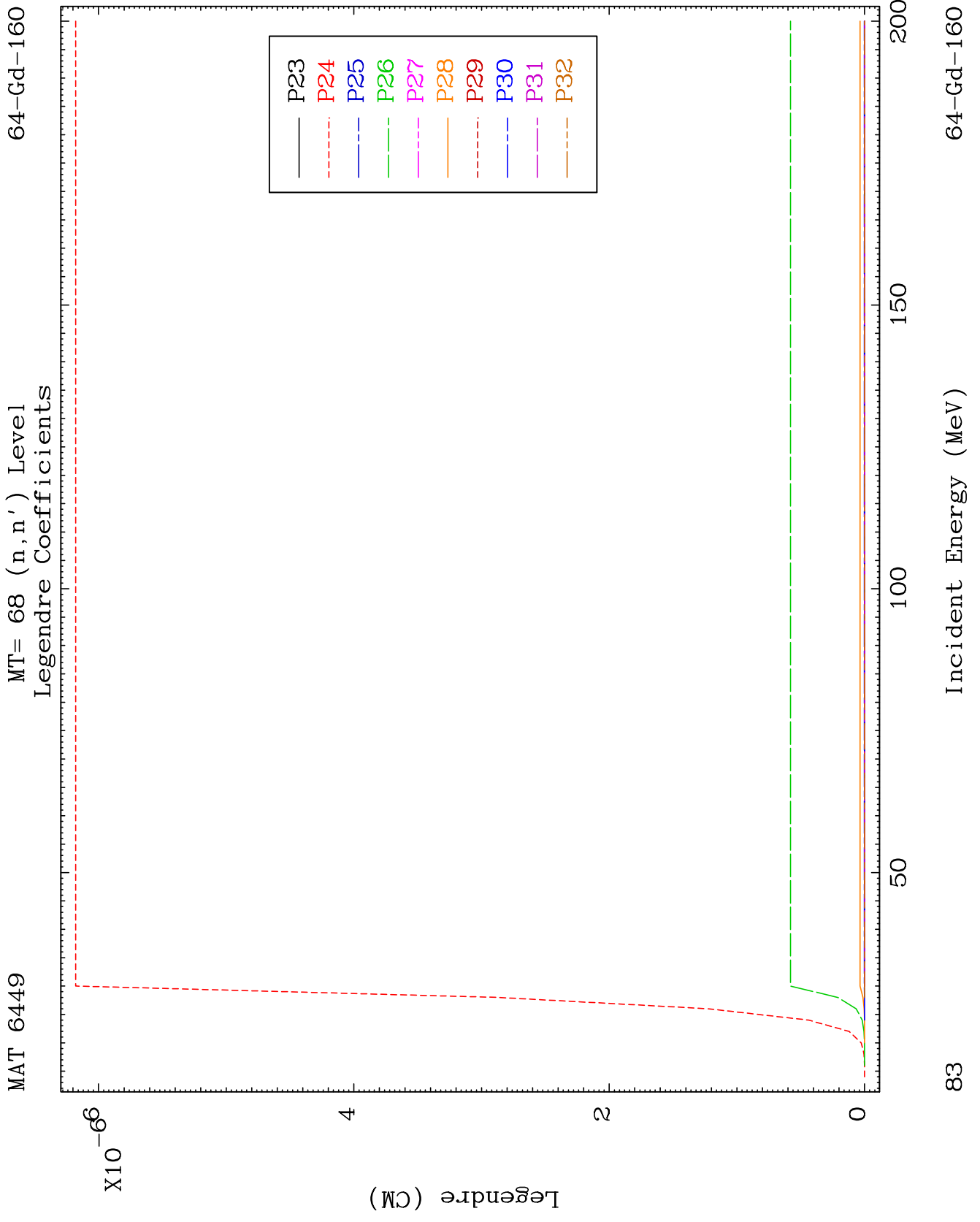
MAT 6449

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

64-Gd-160



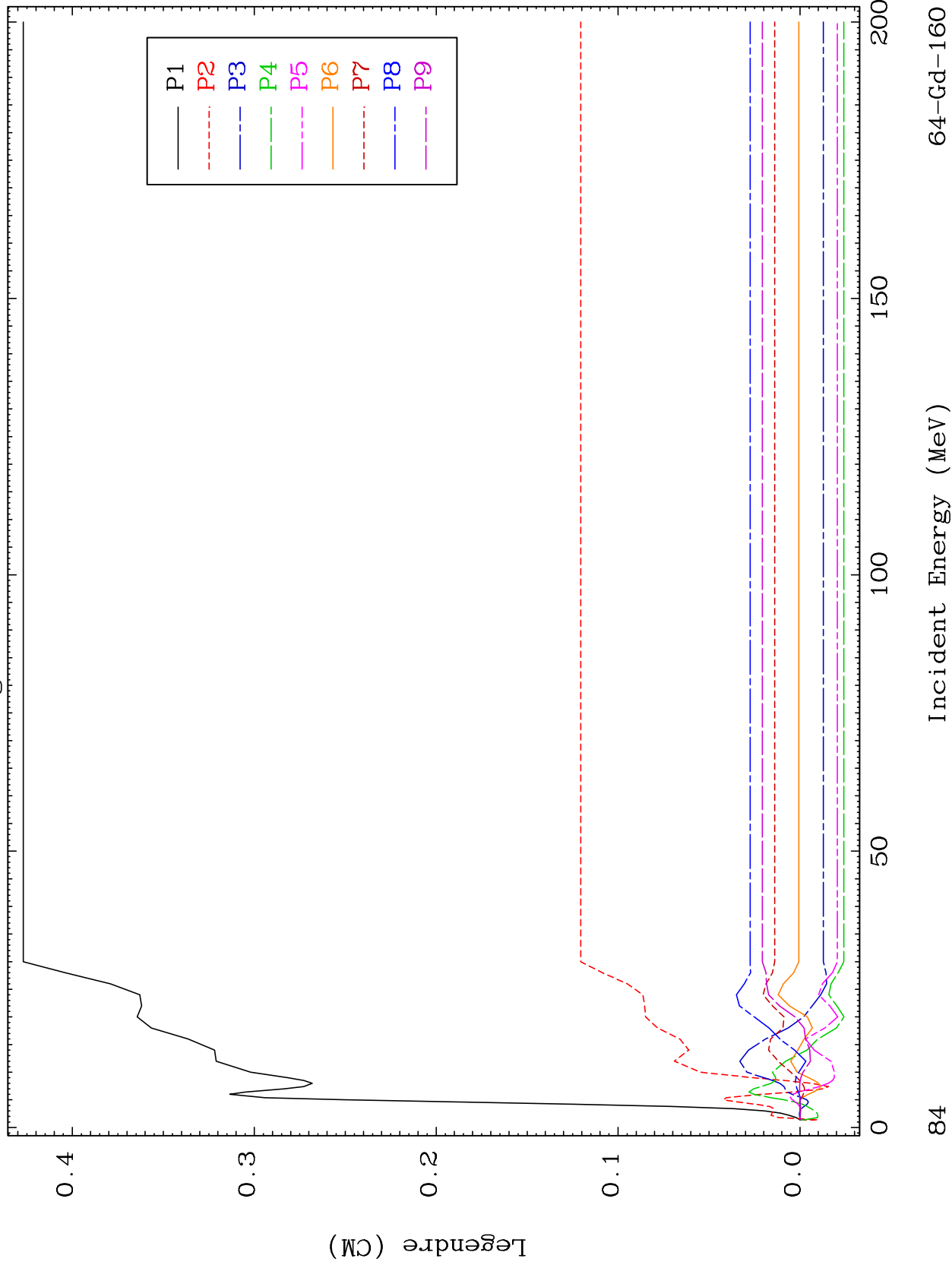
82



MAT 6449

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

64-Gd-160



64-Gd-160

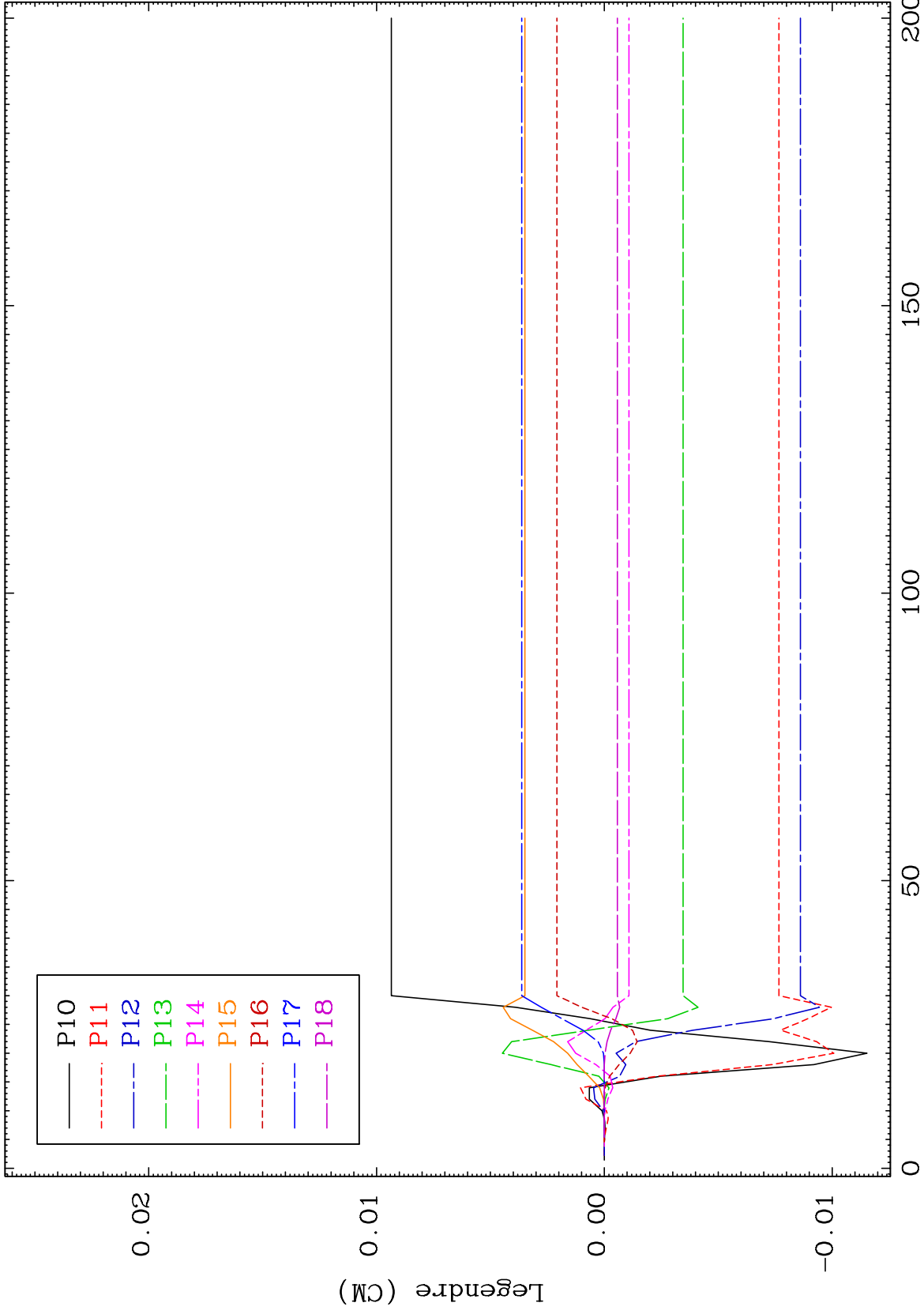
Incident Energy (MeV)

84

MAT 6449

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

64-Gd-160



85

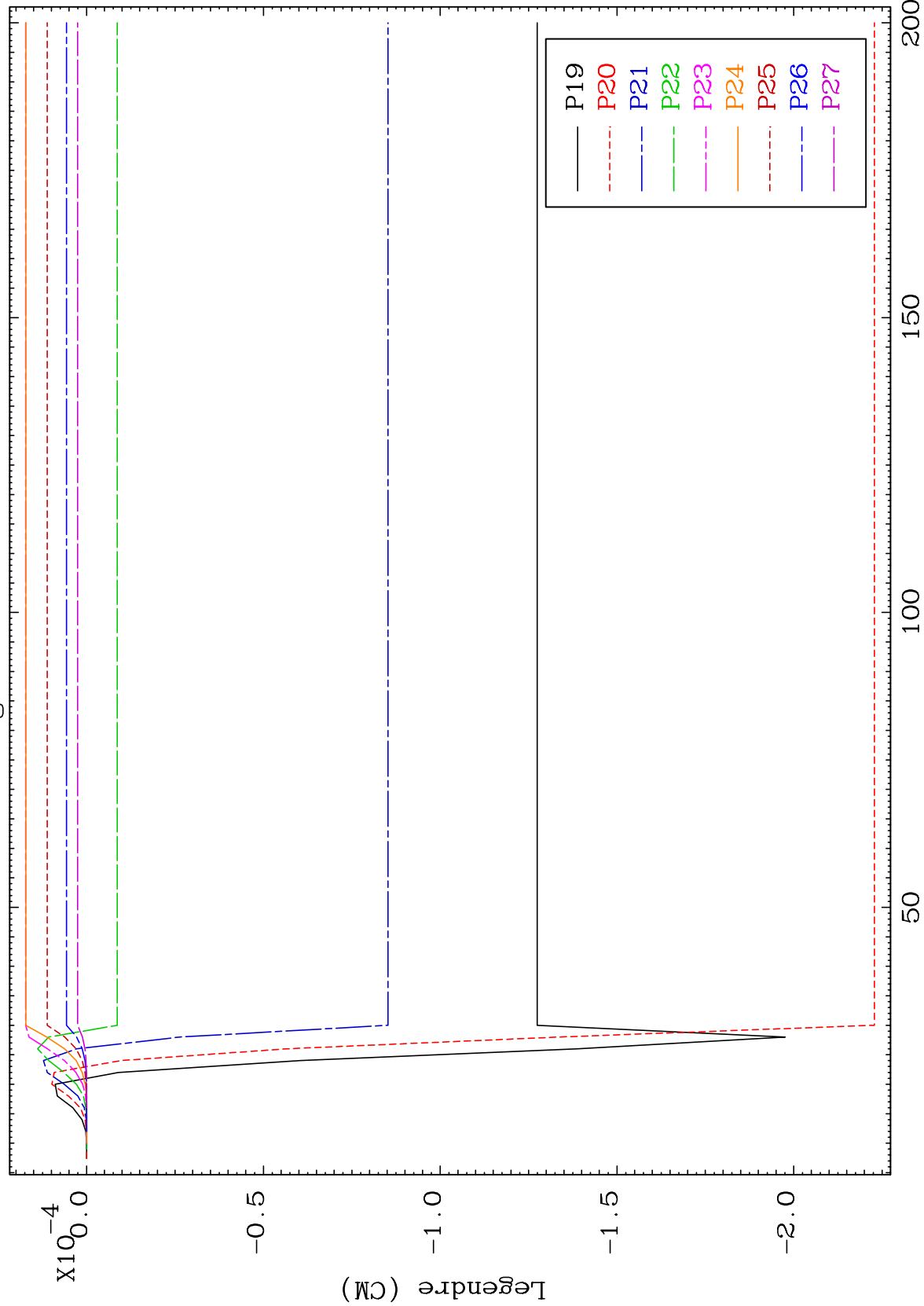
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

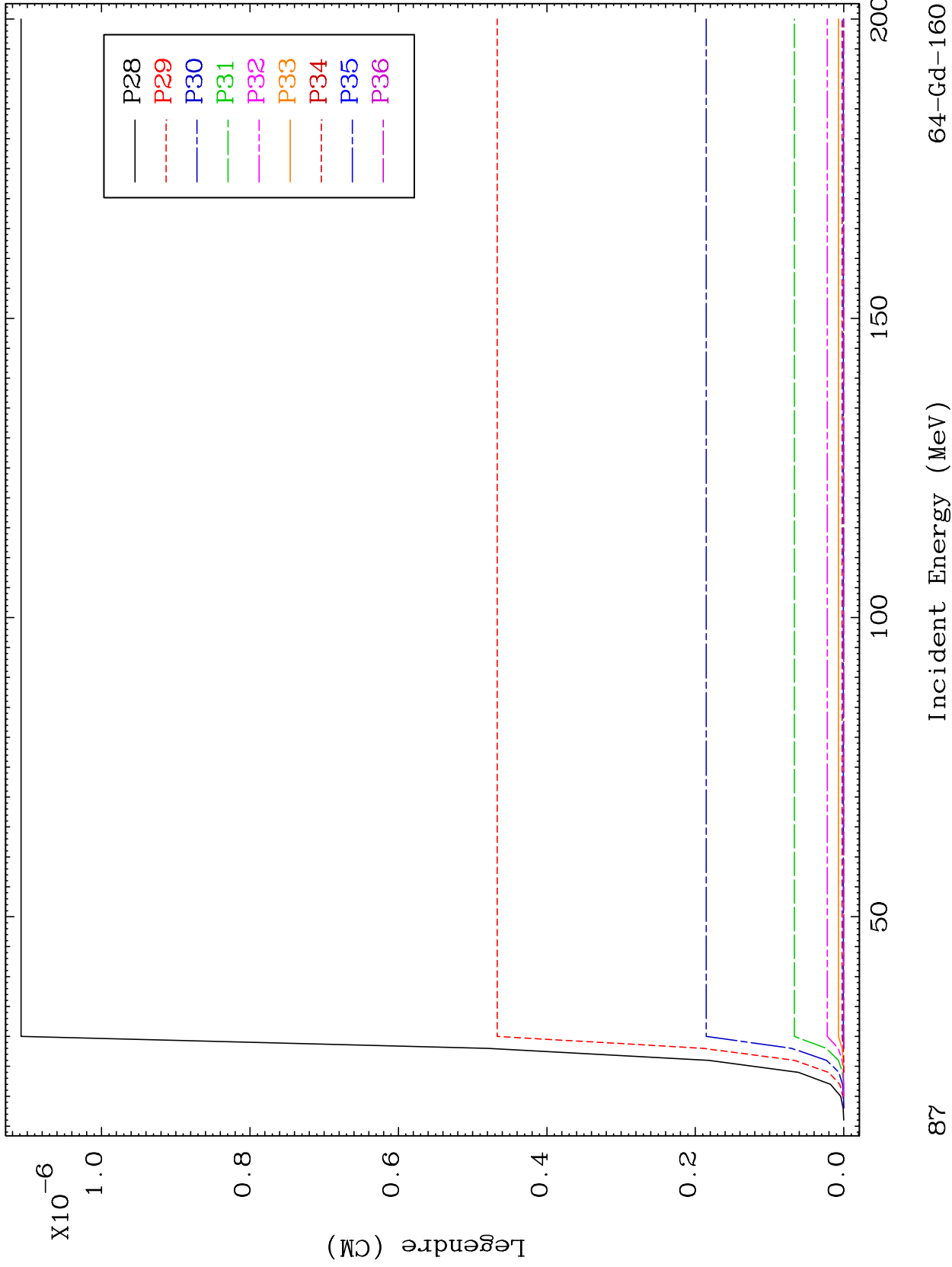
64-Gd-160

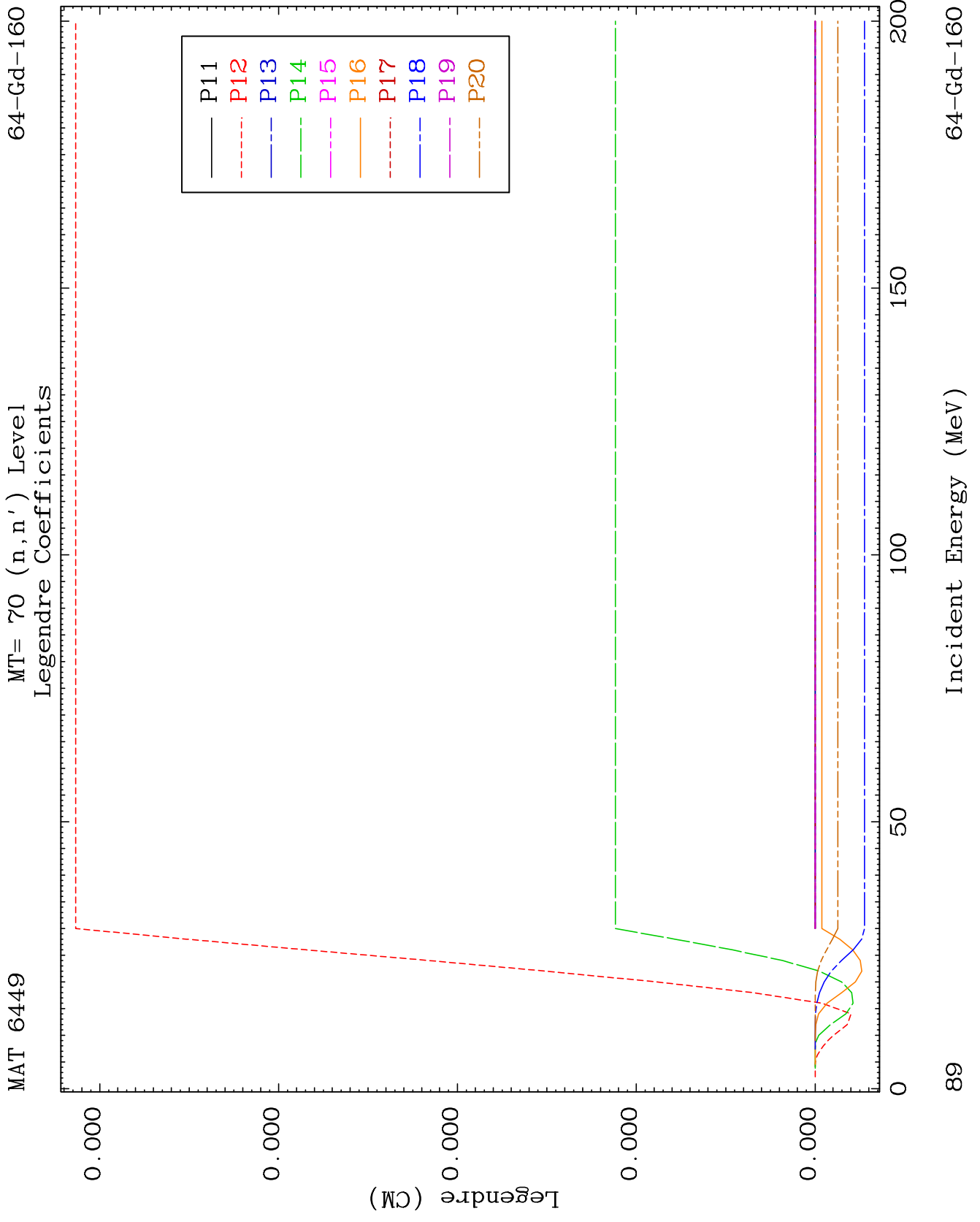


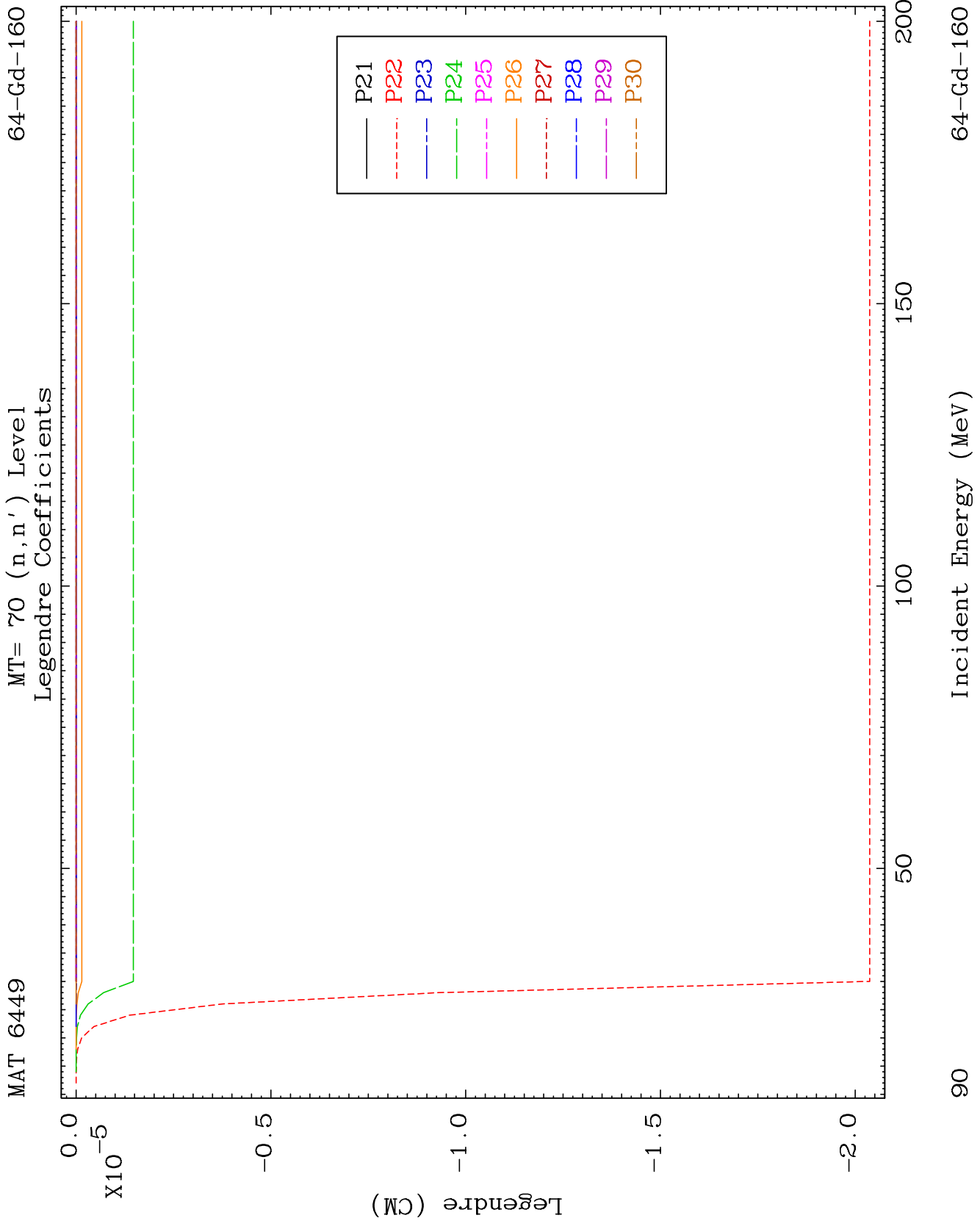
MAT 6449

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

64-Gd-160



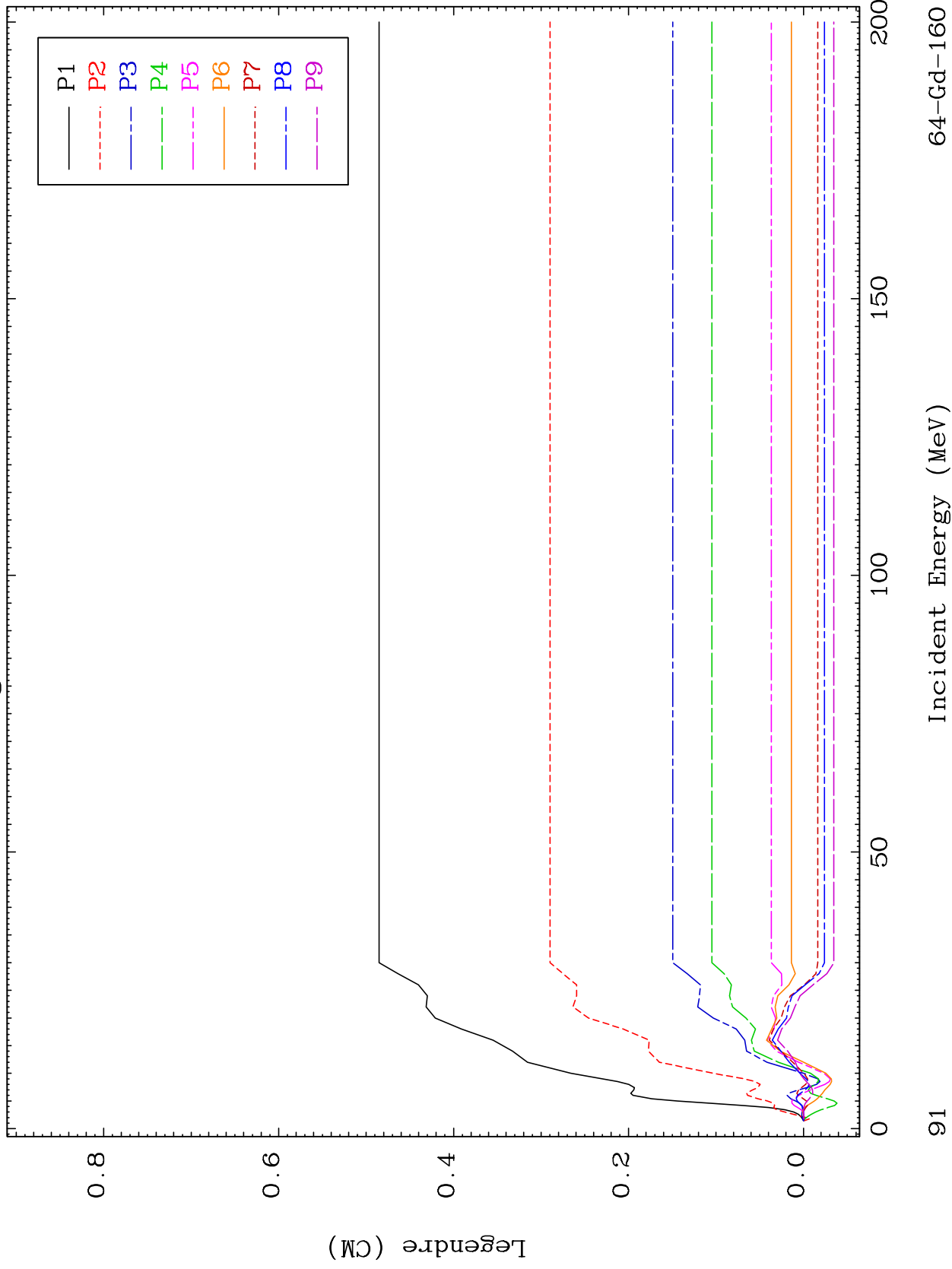




MAT 6449

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

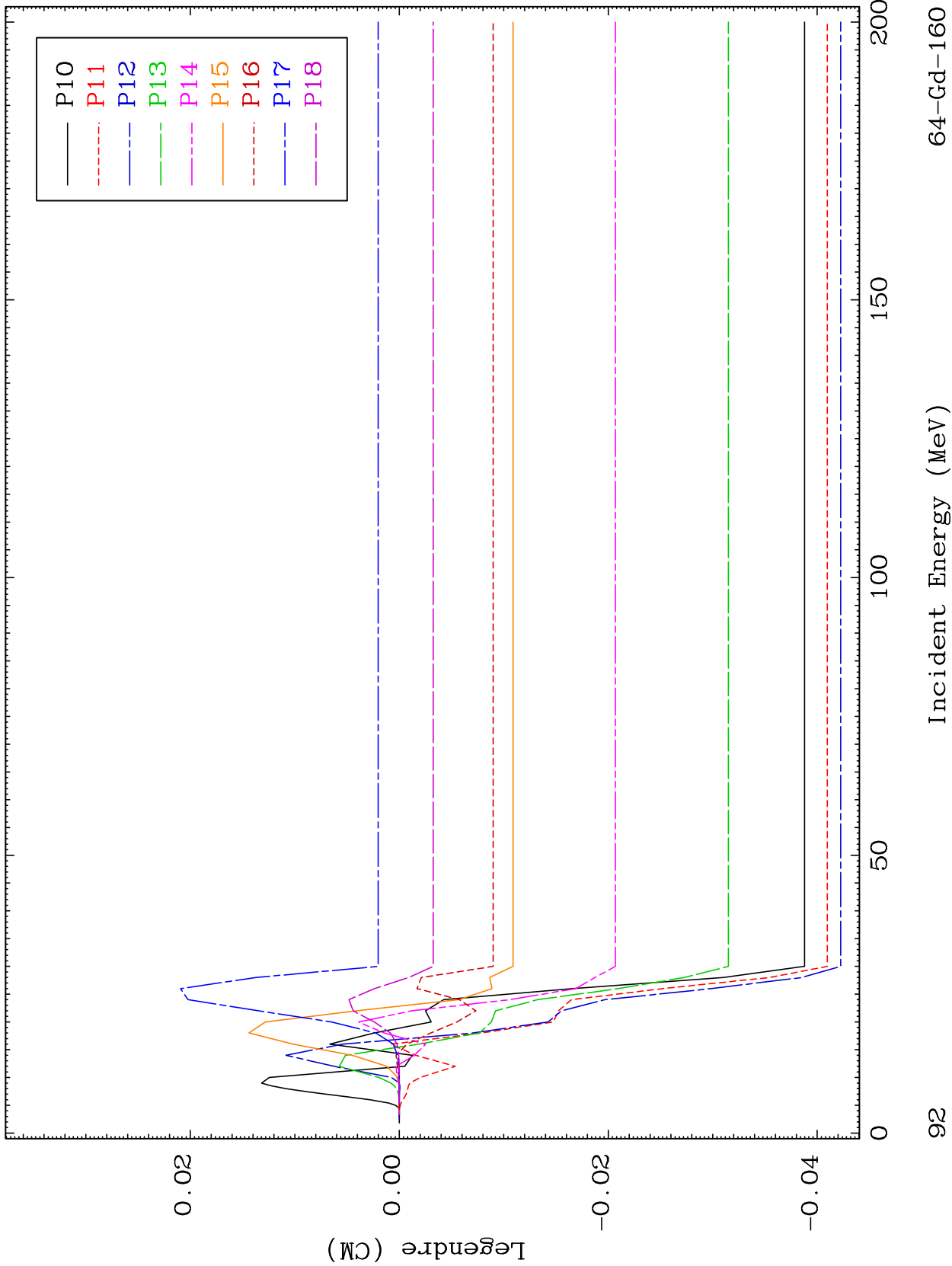
64-Gd-160



MAT 6449

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

64-Gd-160



64-Gd-160

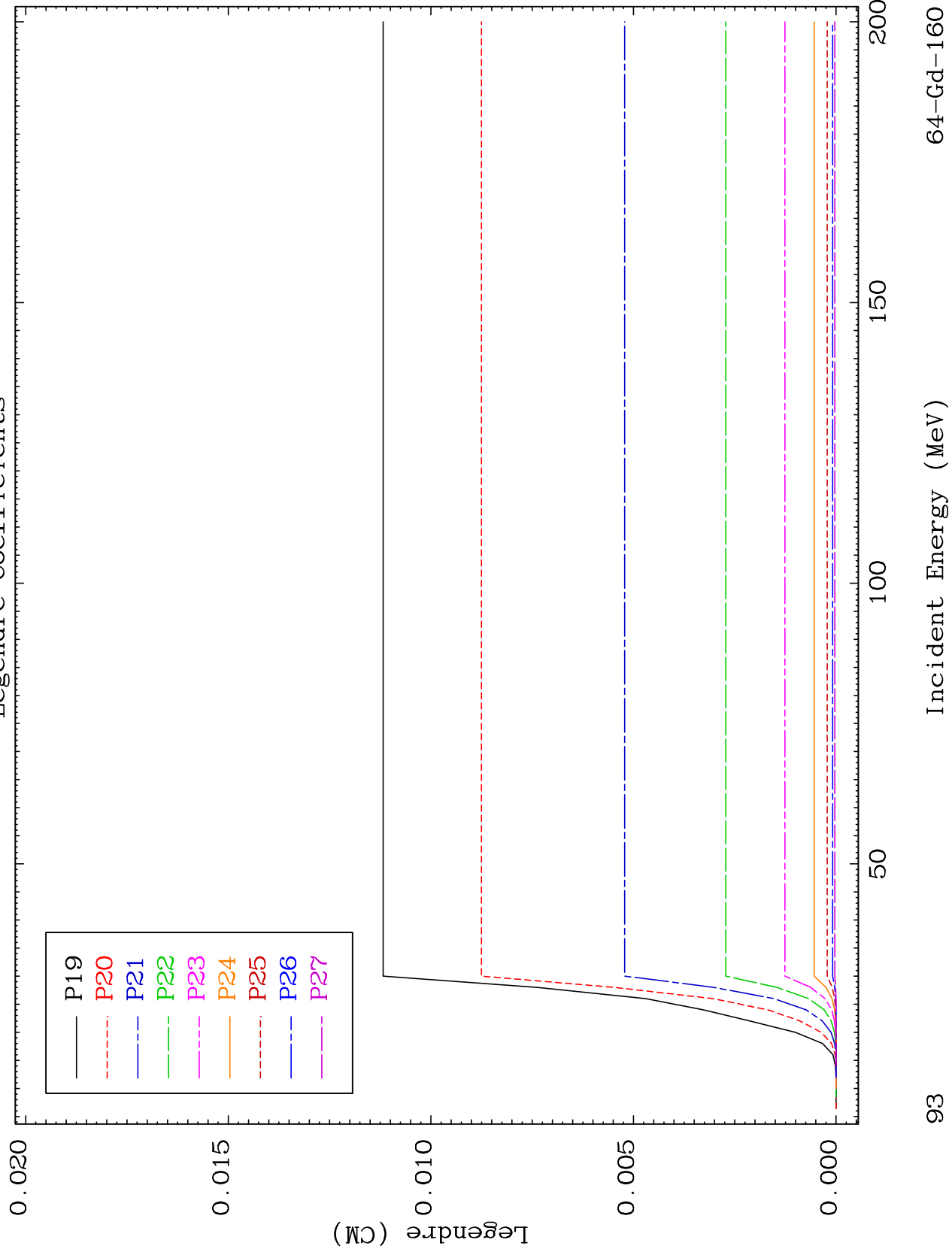
Incident Energy (MeV)

92

MAT 6449

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

64-Gd-160



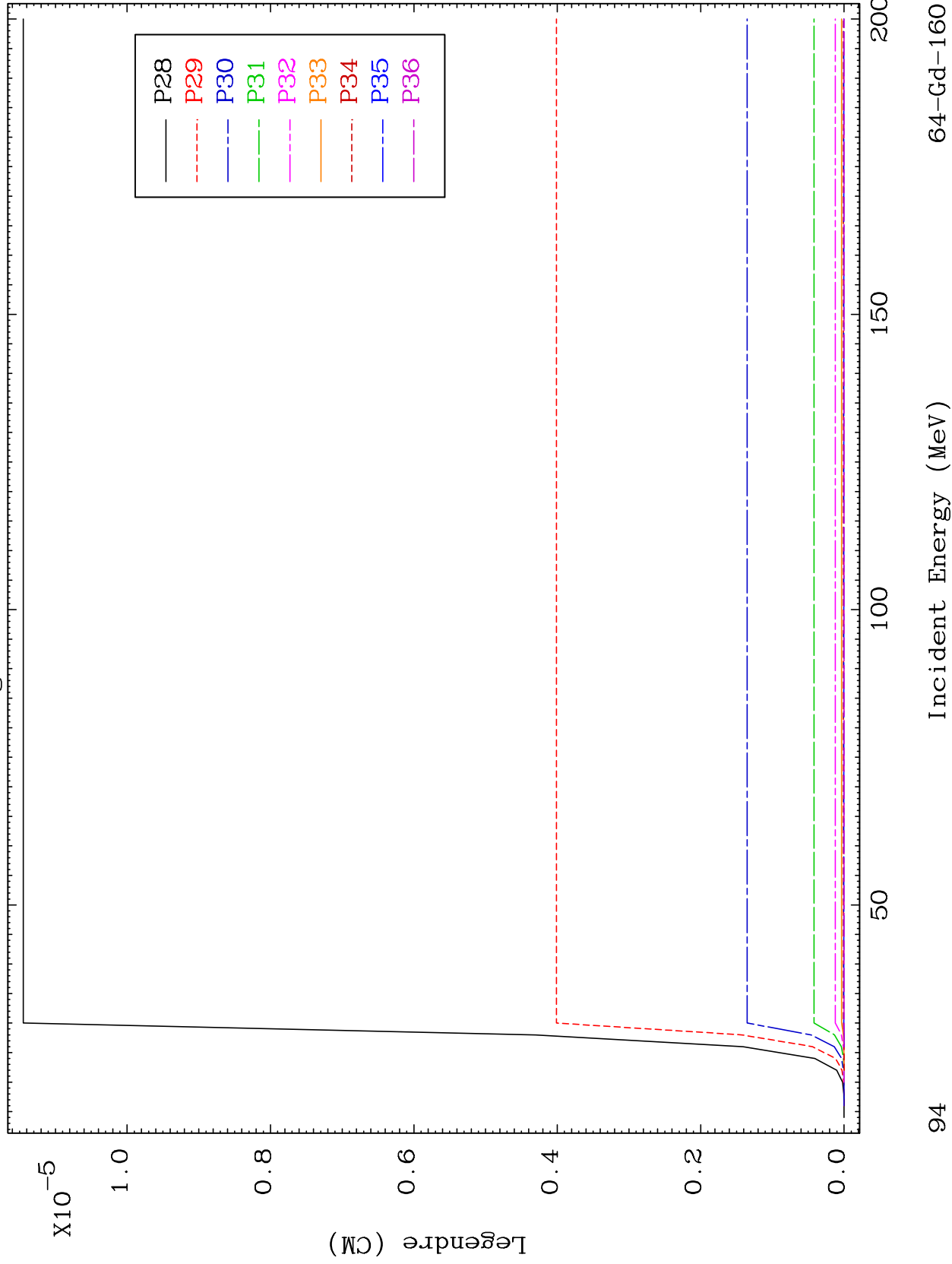
93

64-Gd-160

MAT 6449

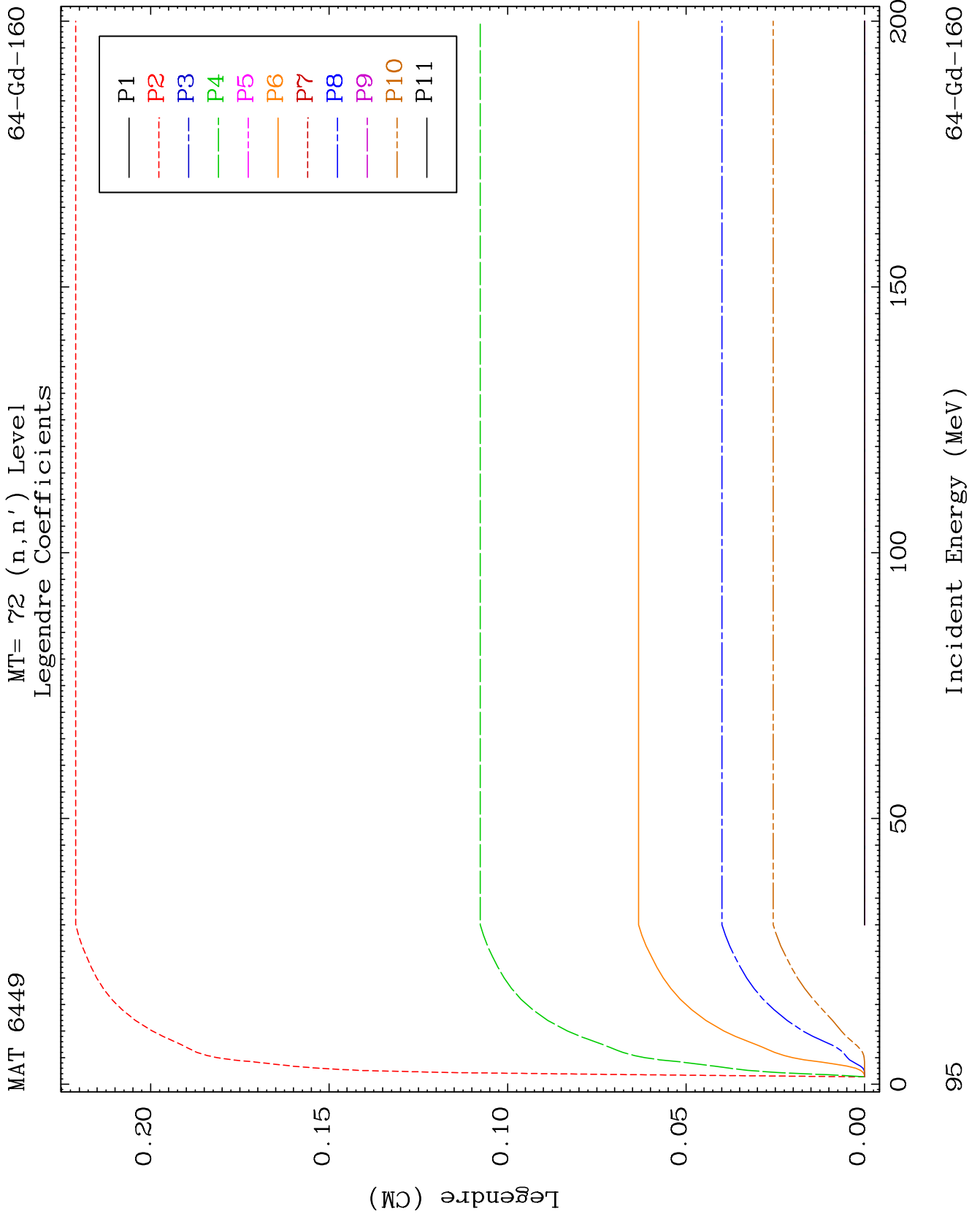
MT= 71 (n,n') Level
Legendre Coefficients

64-Gd-160



94

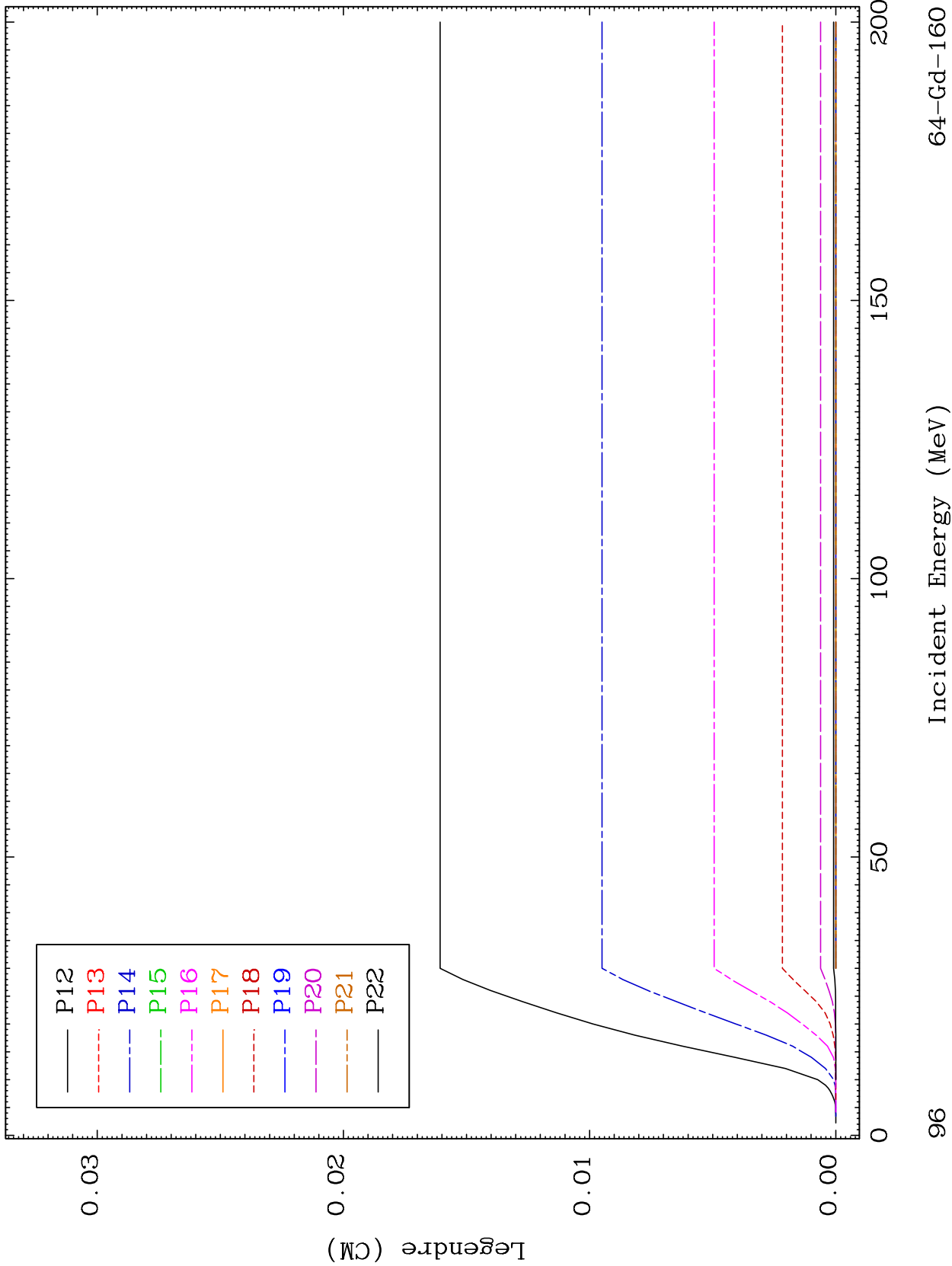
64-Gd-160



MAT 6449

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

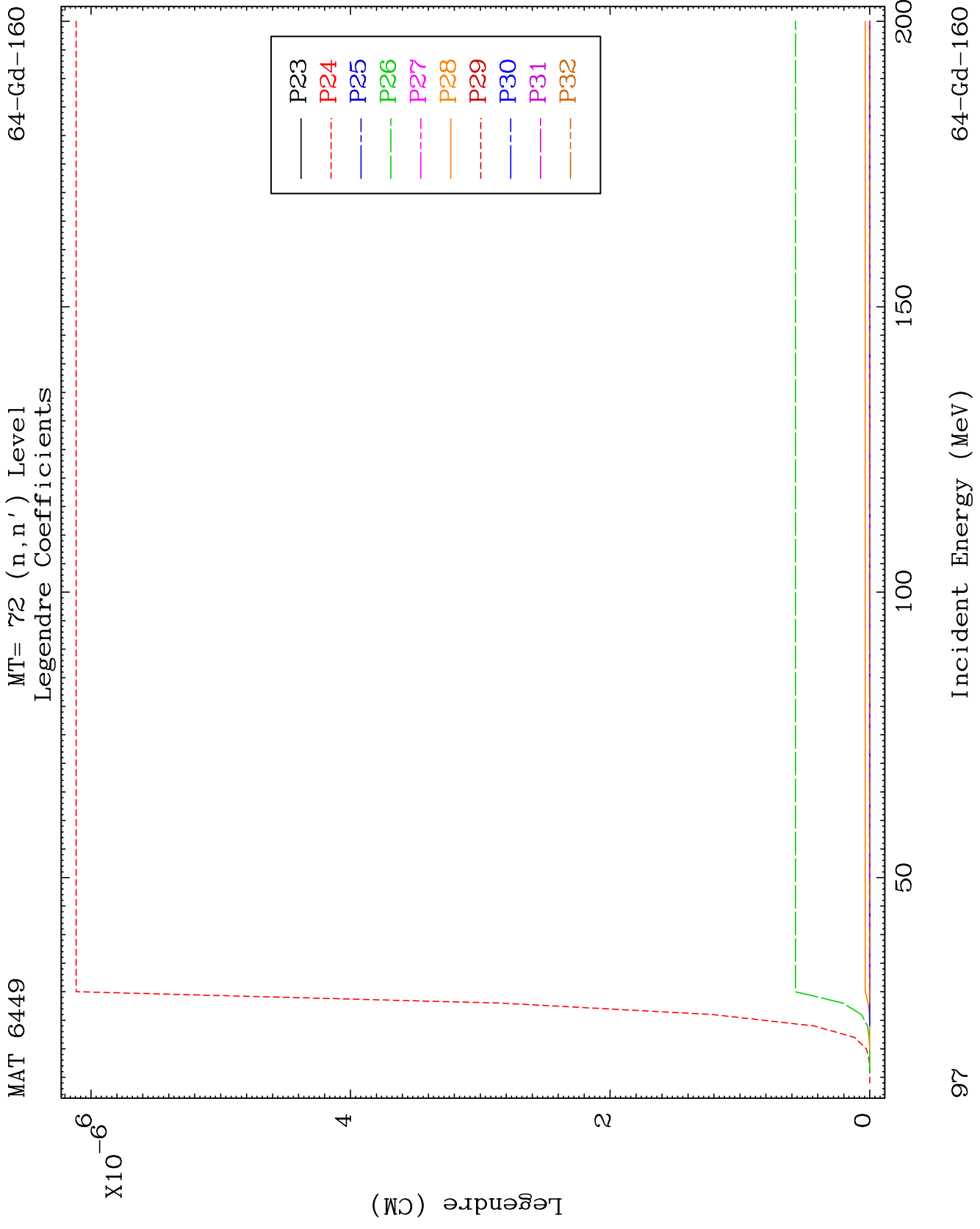
64-Gd-160



64-Gd-160

Incident Energy (MeV)

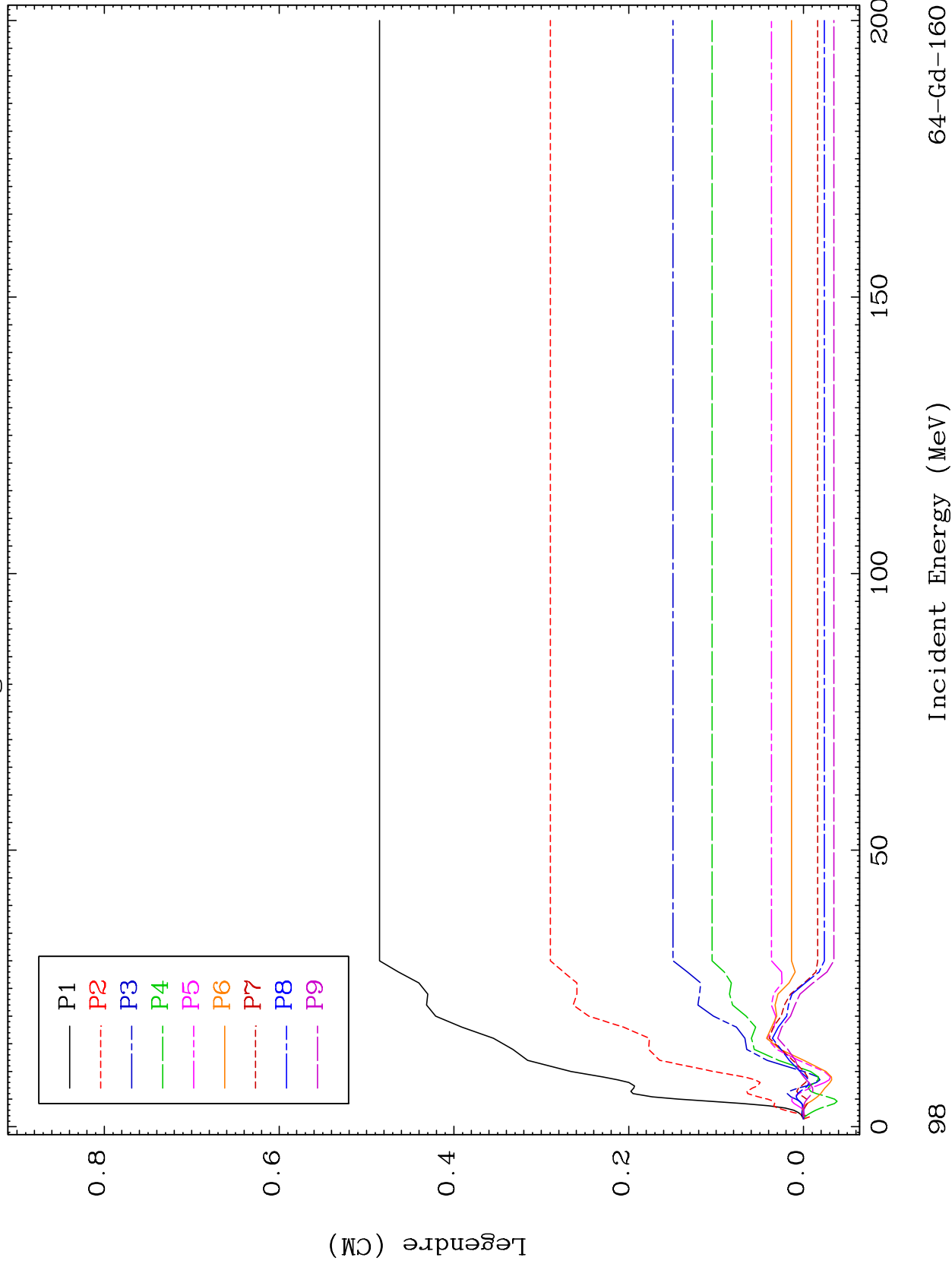
96



MAT 6449

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

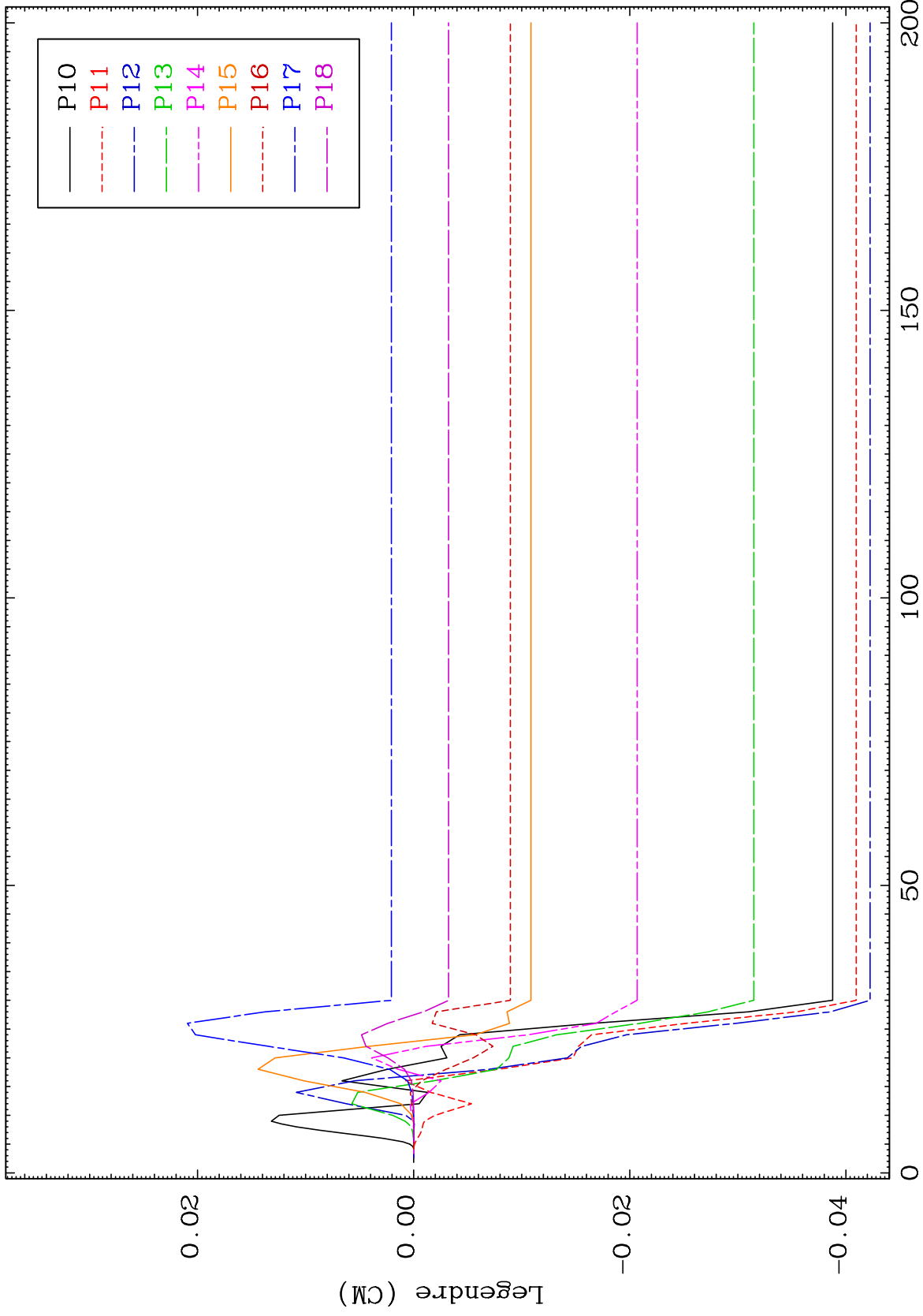
64-Gd-160



MAT 6449

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

64-Gd-160



99

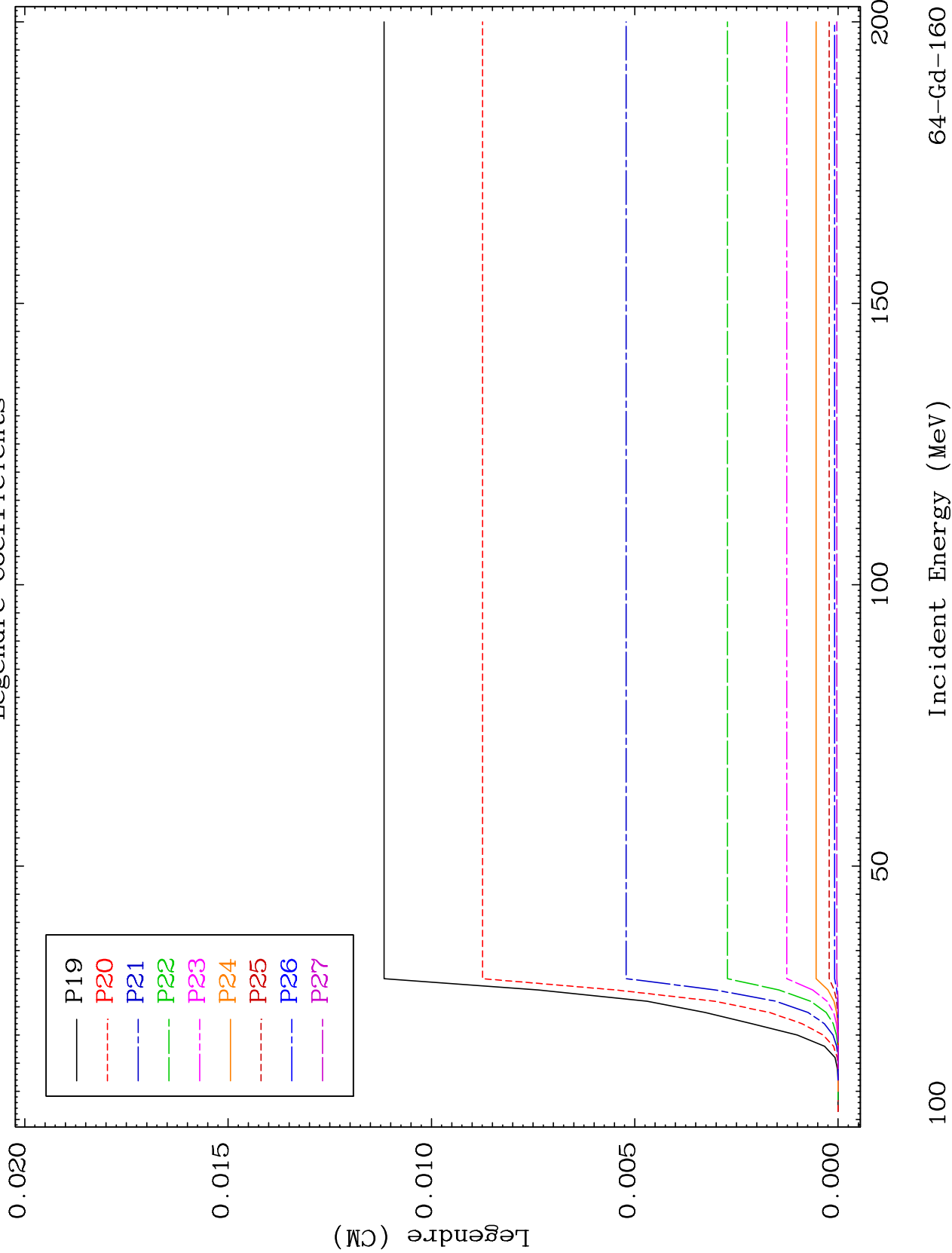
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

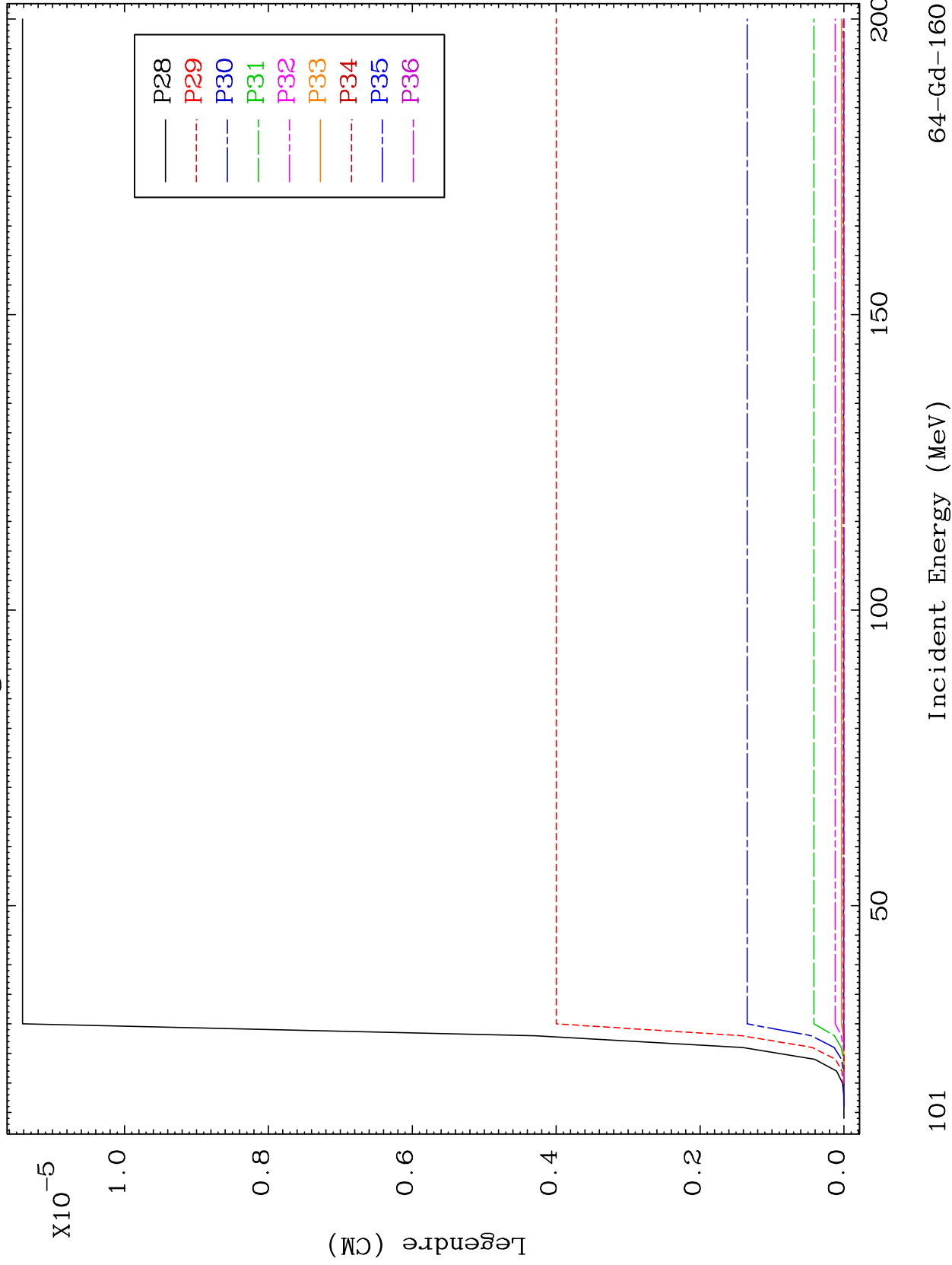
64-Gd-160



MAT 6449

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

64-Gd-160



101

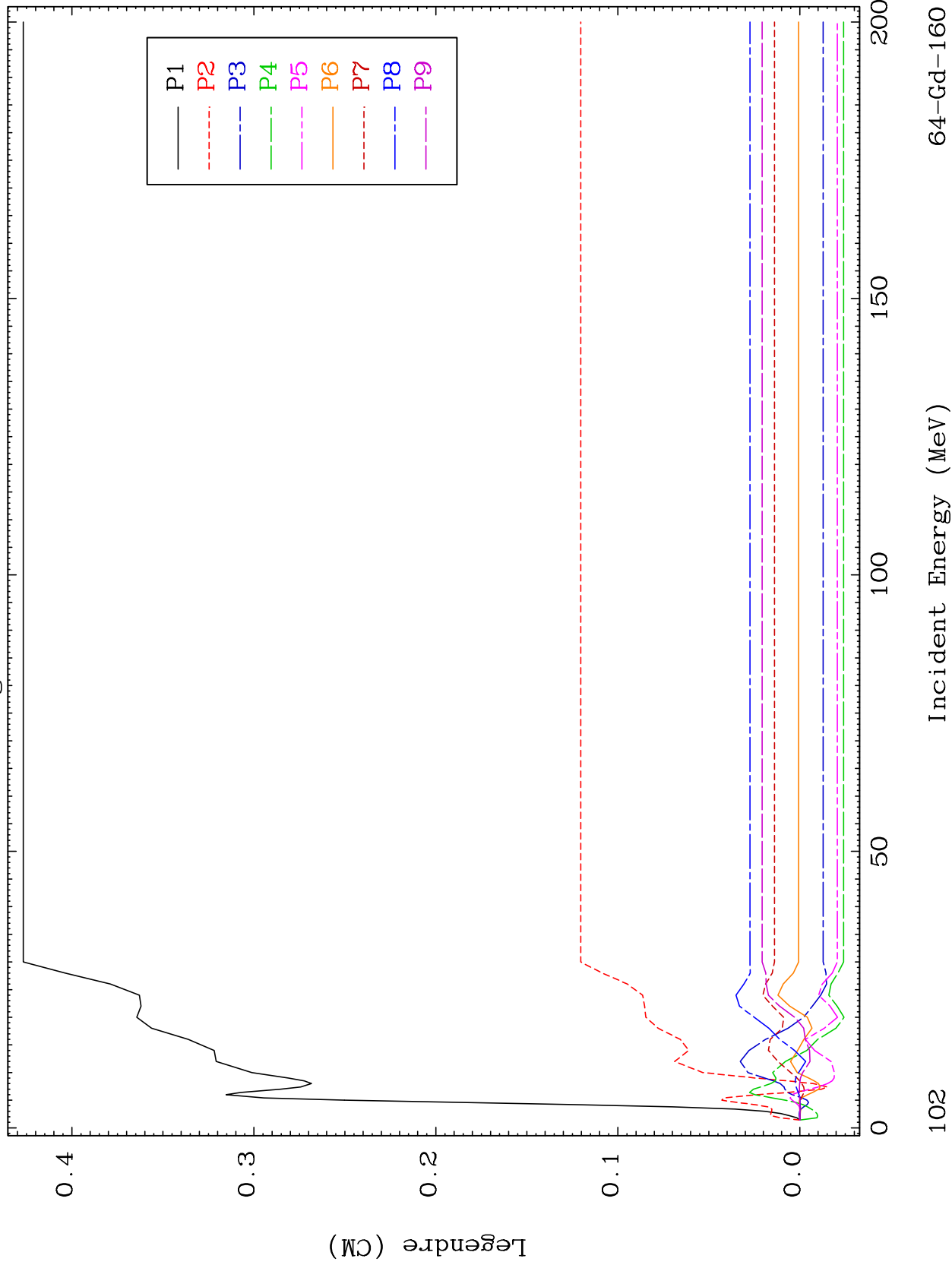
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160



64-Gd-160

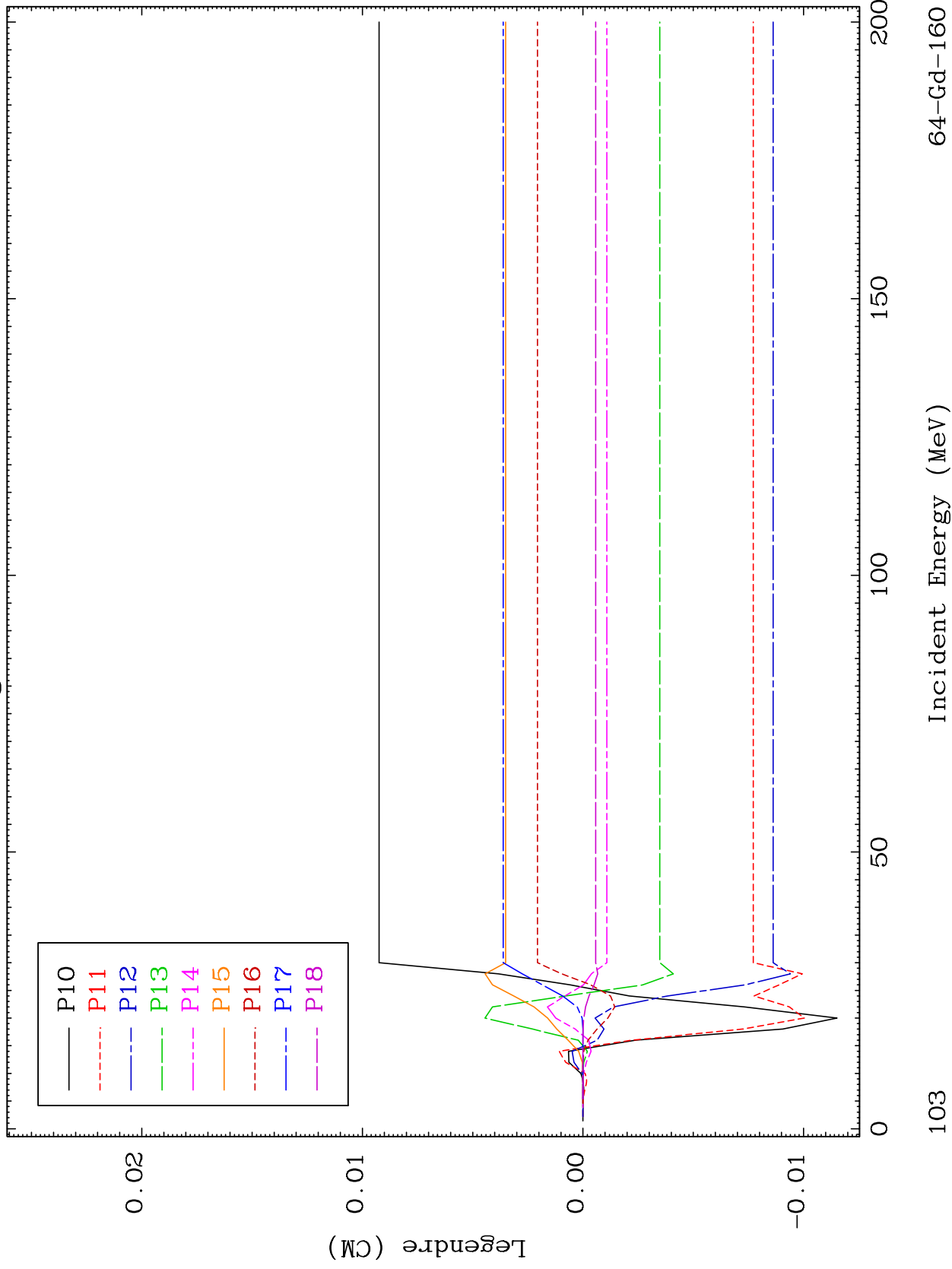
Incident Energy (MeV)

102

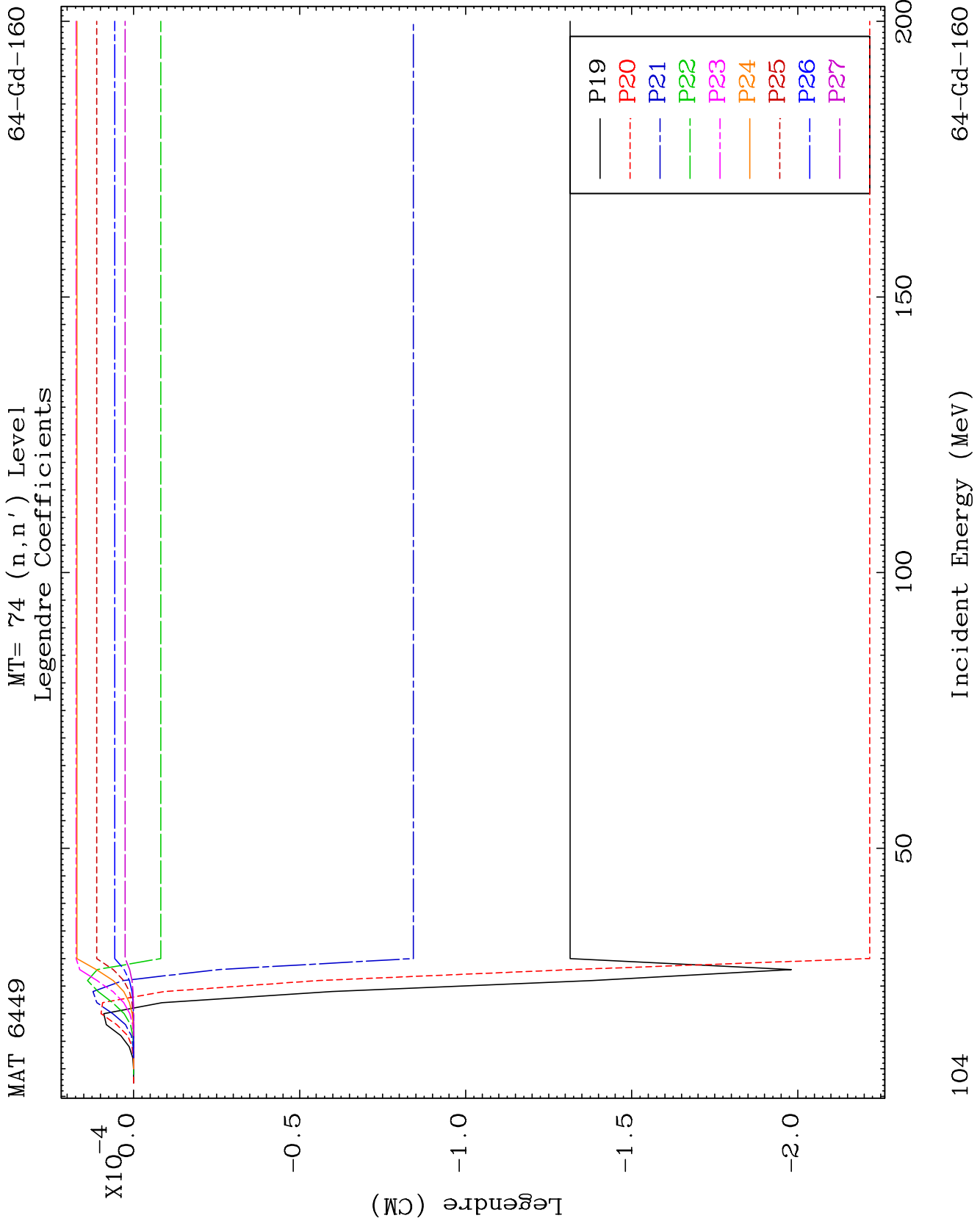
MAT 6449

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

64-Gd-160



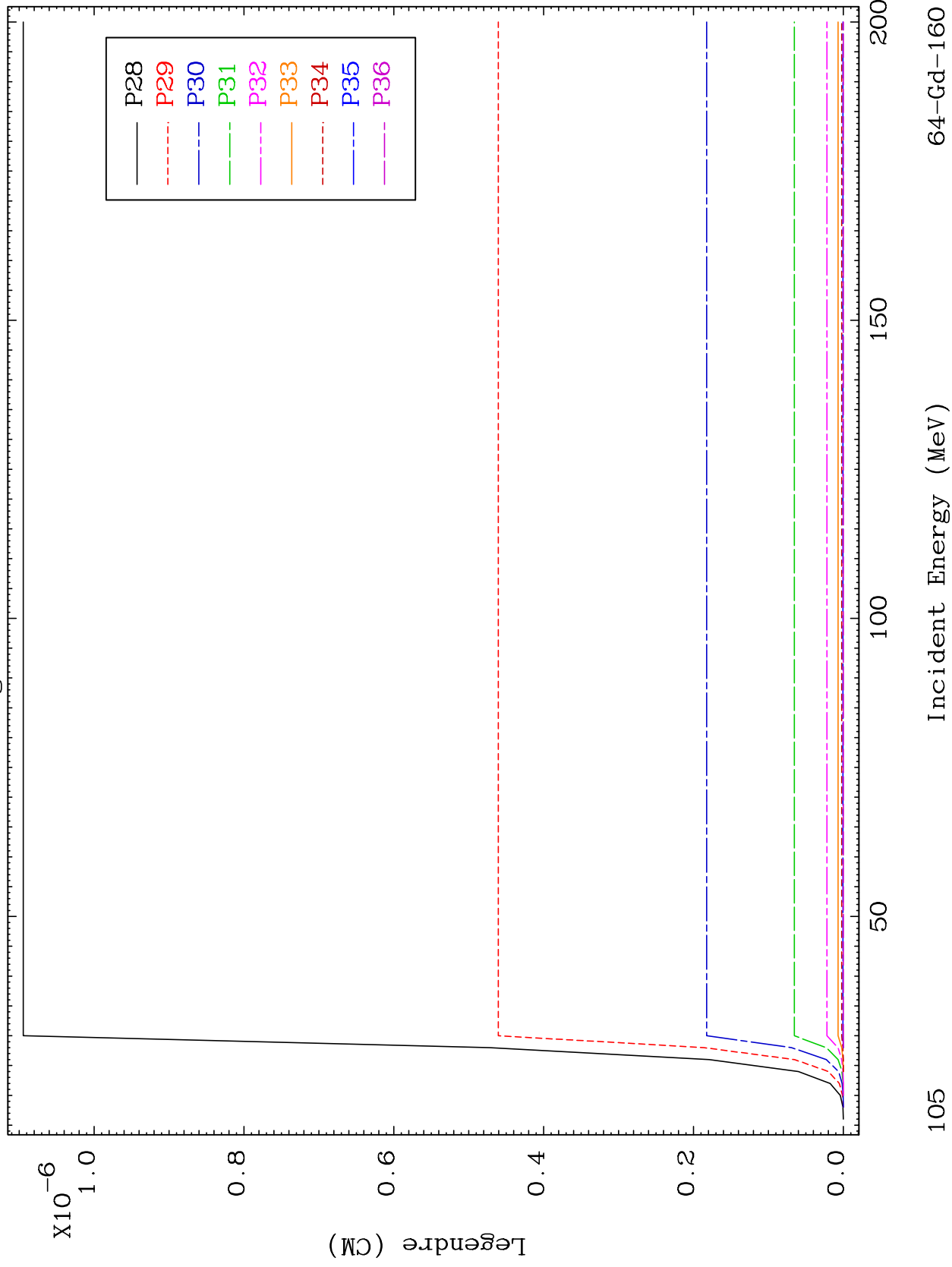
103



MAT 6449

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

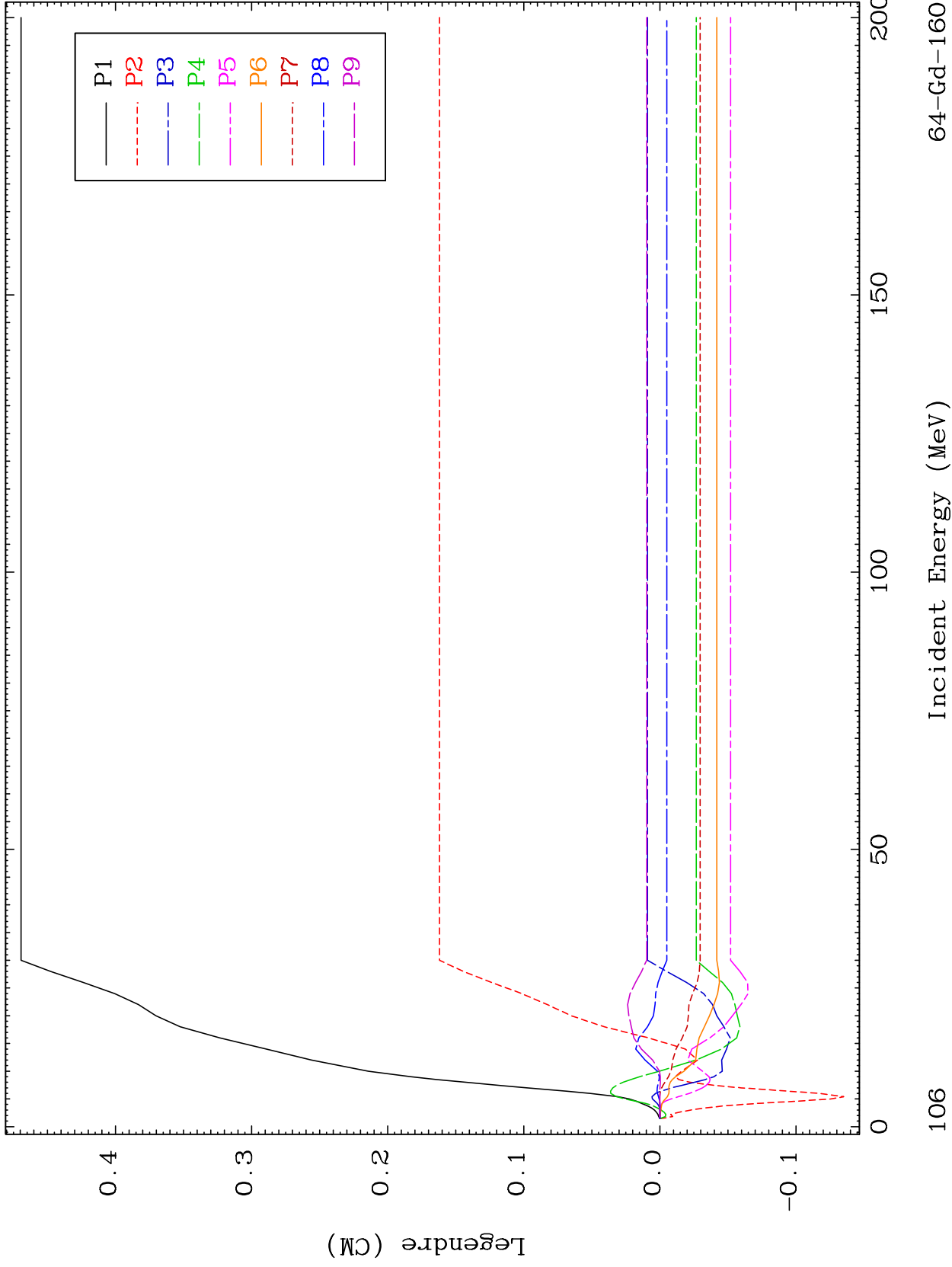
64-Gd-160



MAT 6449

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

64-Gd-160



64-Gd-160

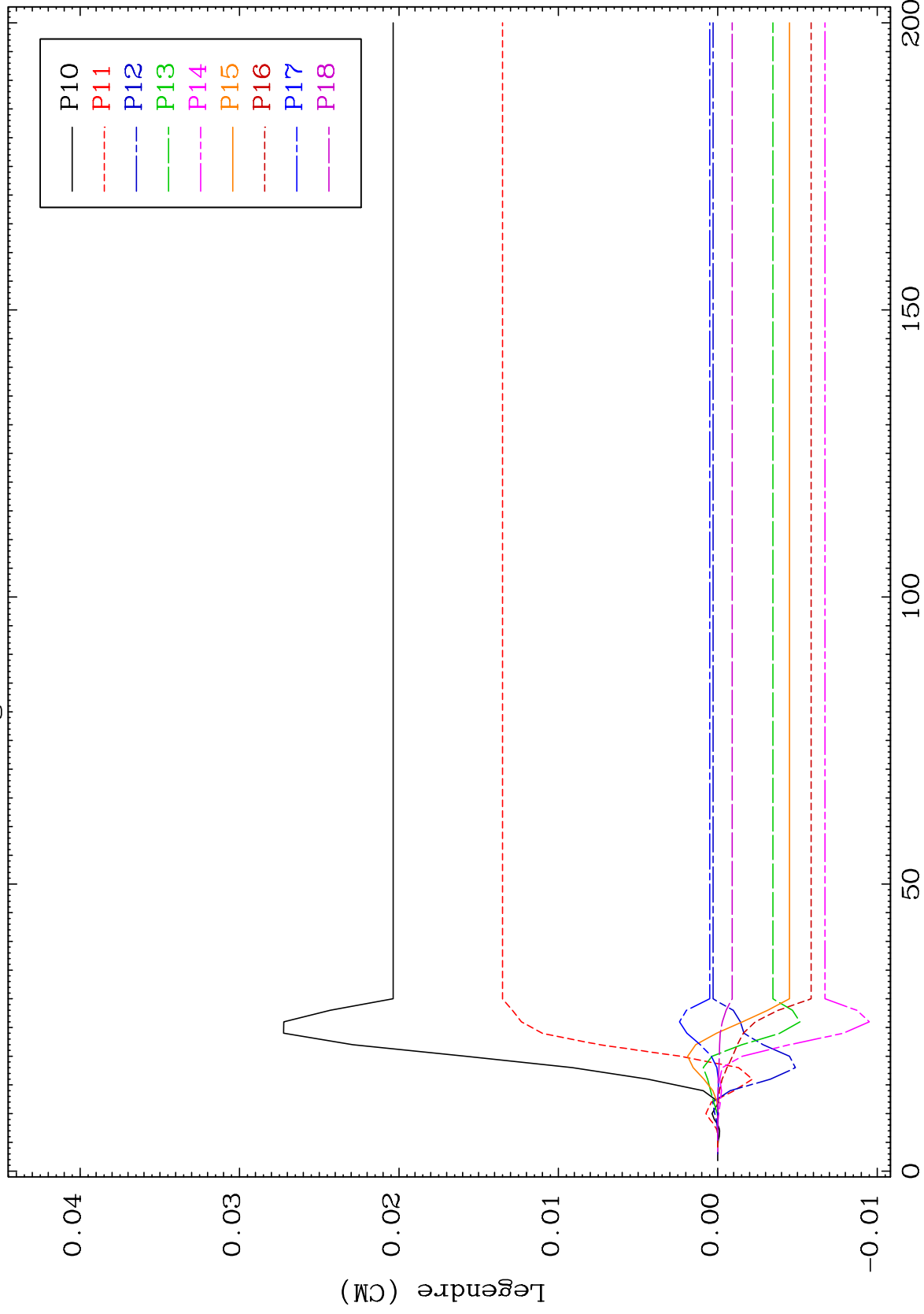
Incident Energy (MeV)

106

MAT 6449

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

64-Gd-160



107

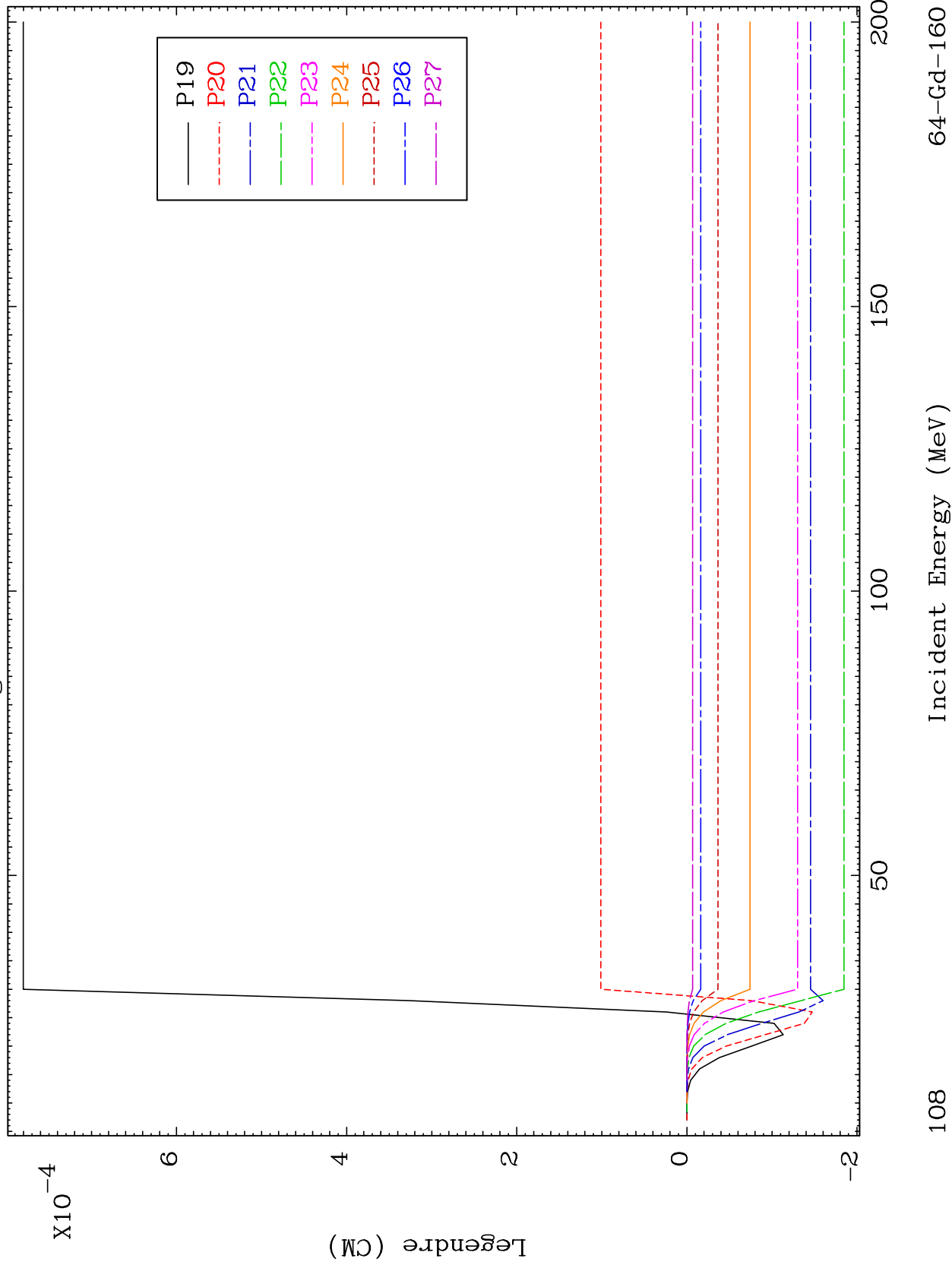
Incident Energy (MeV)

64-Gd-160

MAT 6449

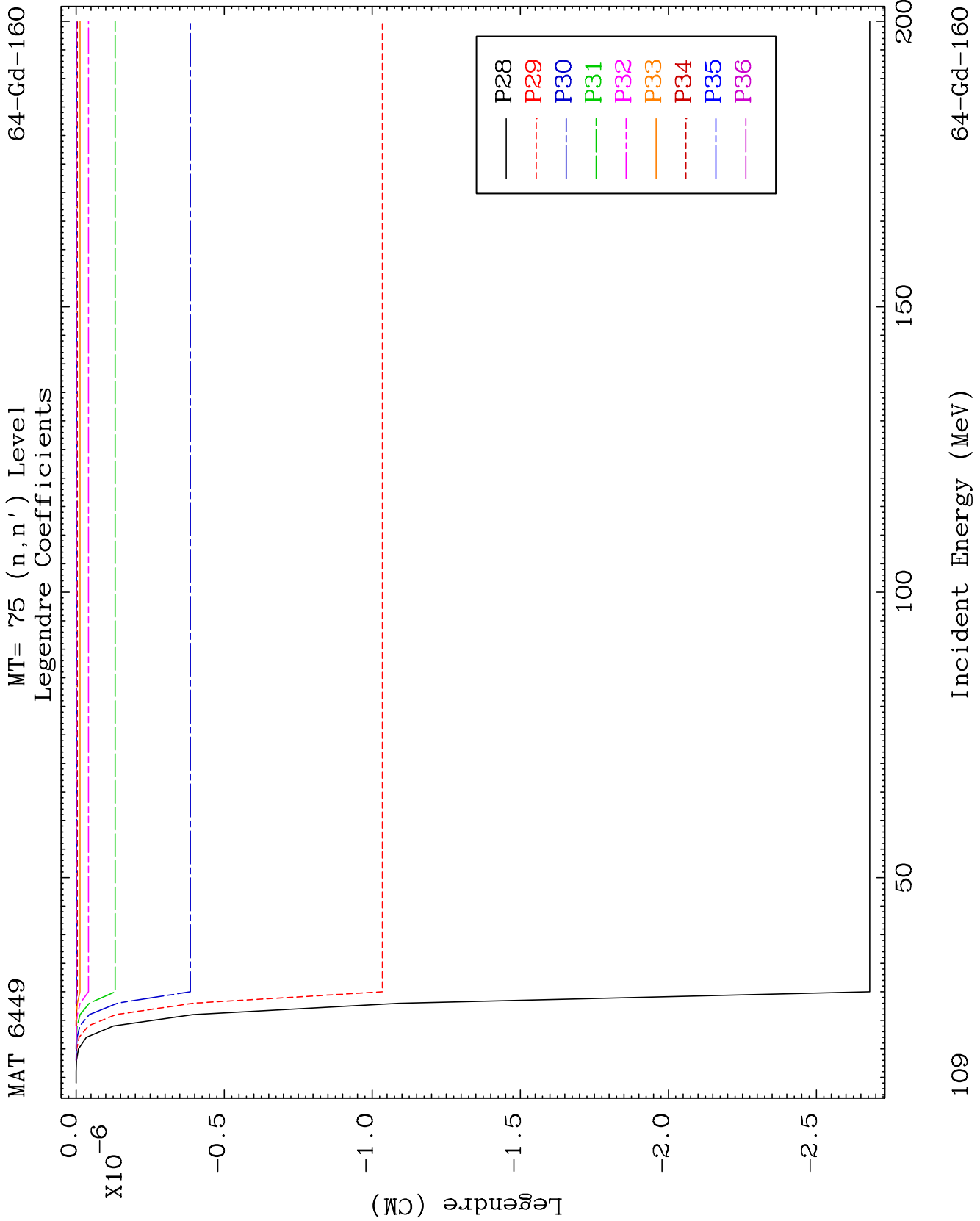
MT= 75 (n,n') Level
Legendre Coefficients

64-Gd-160



108

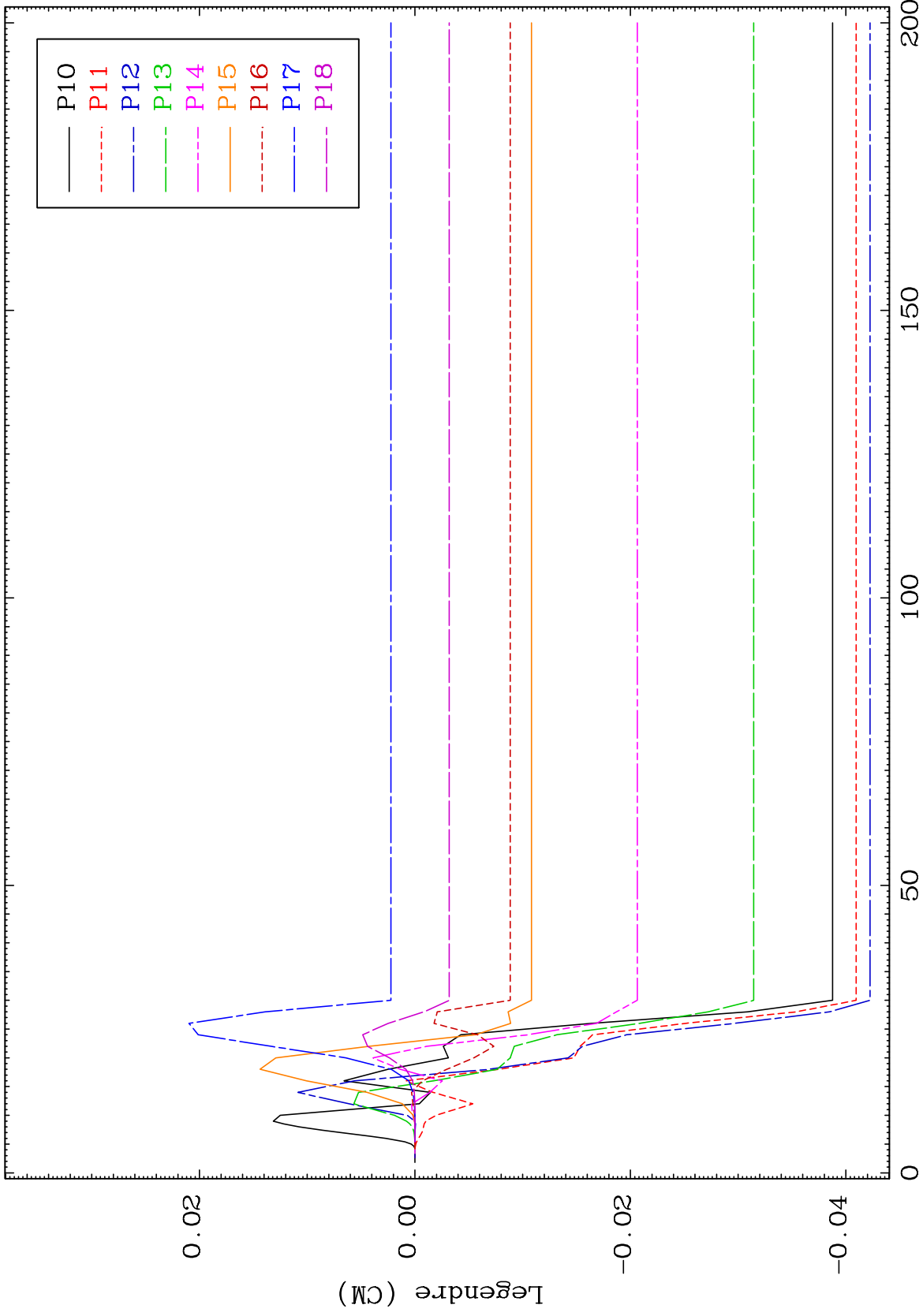
64-Gd-160



MAT 6449

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

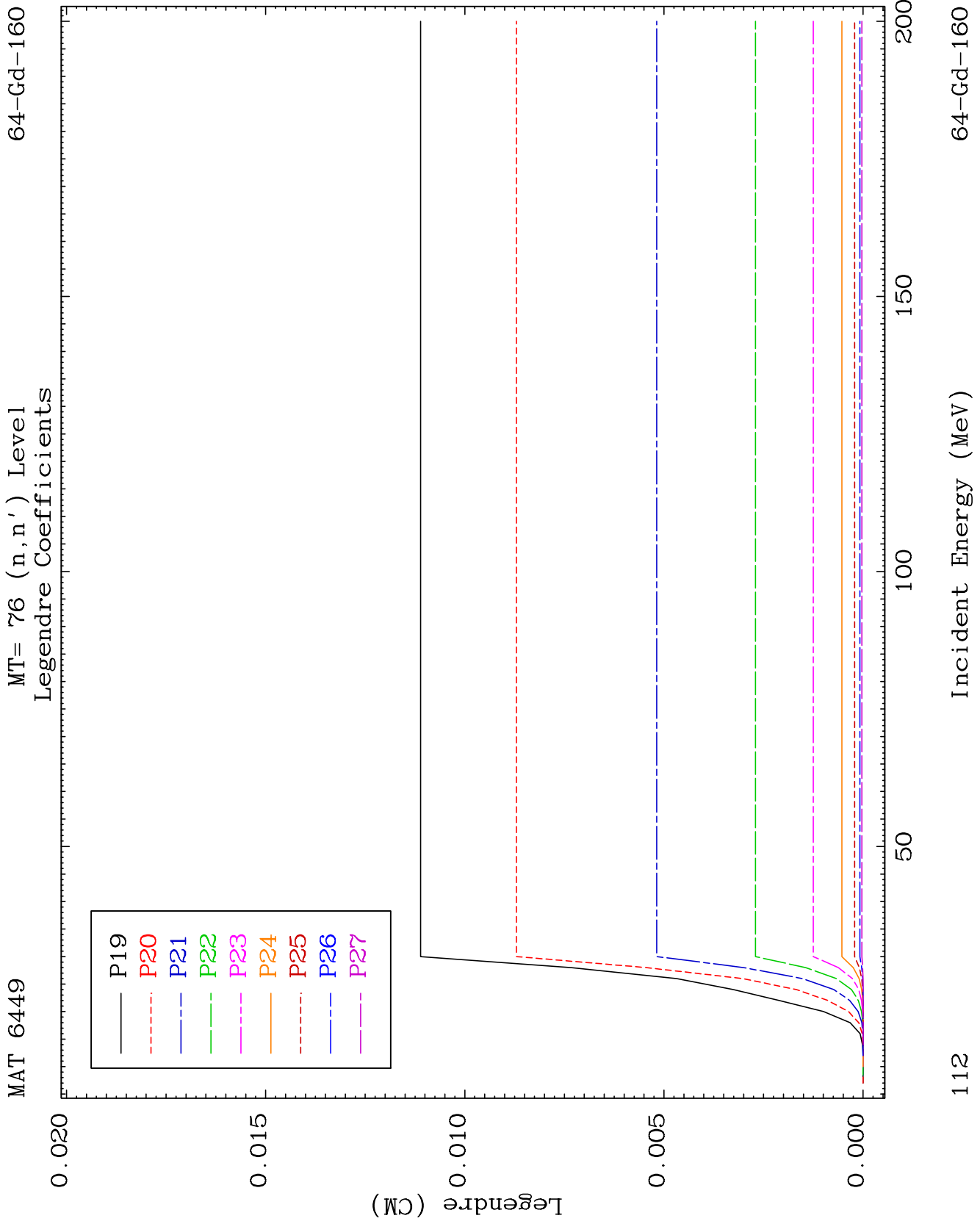
64-Gd-160



111

Incident Energy (MeV)

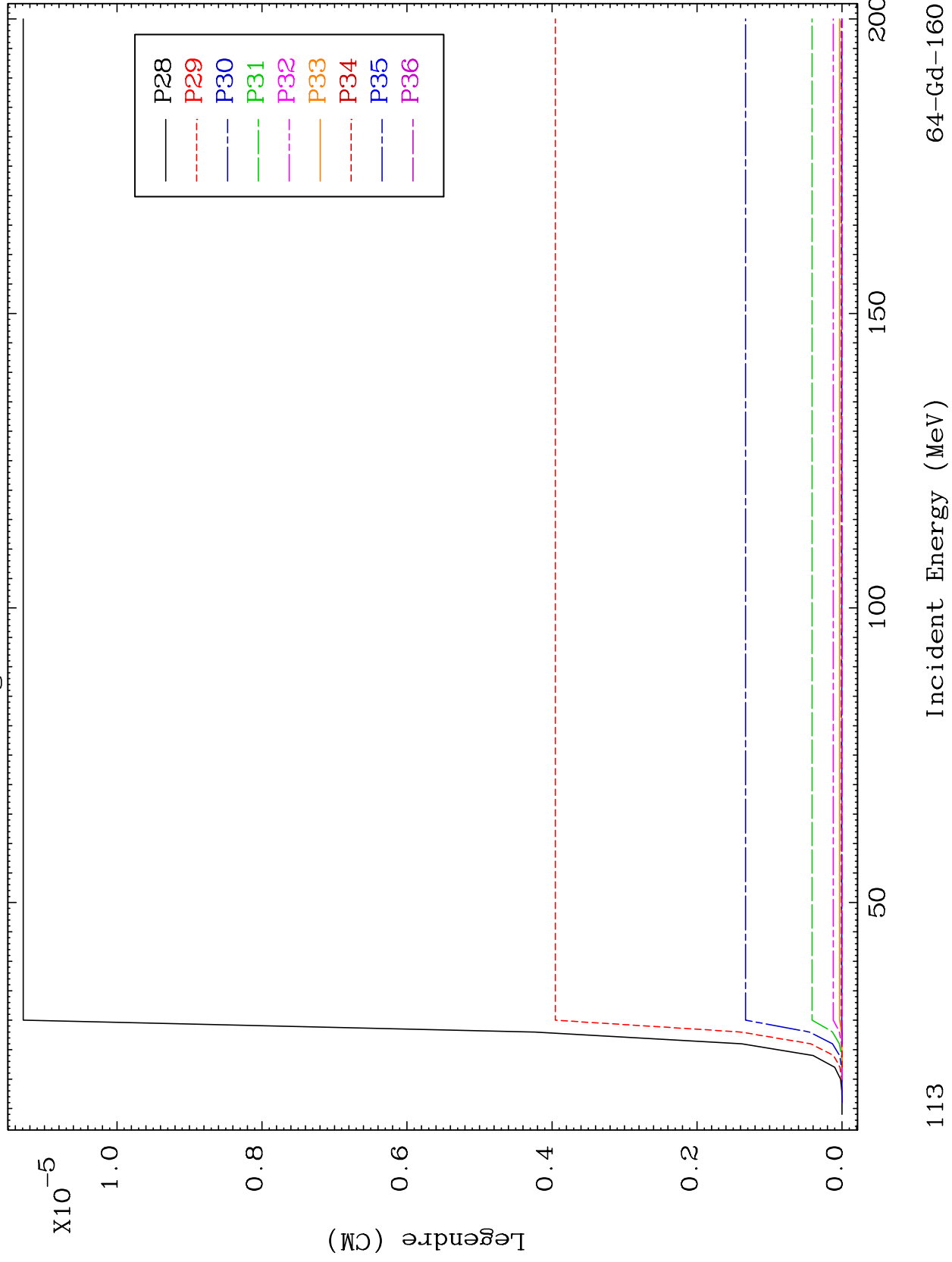
64-Gd-160



MAT 6449

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

64-Gd-160



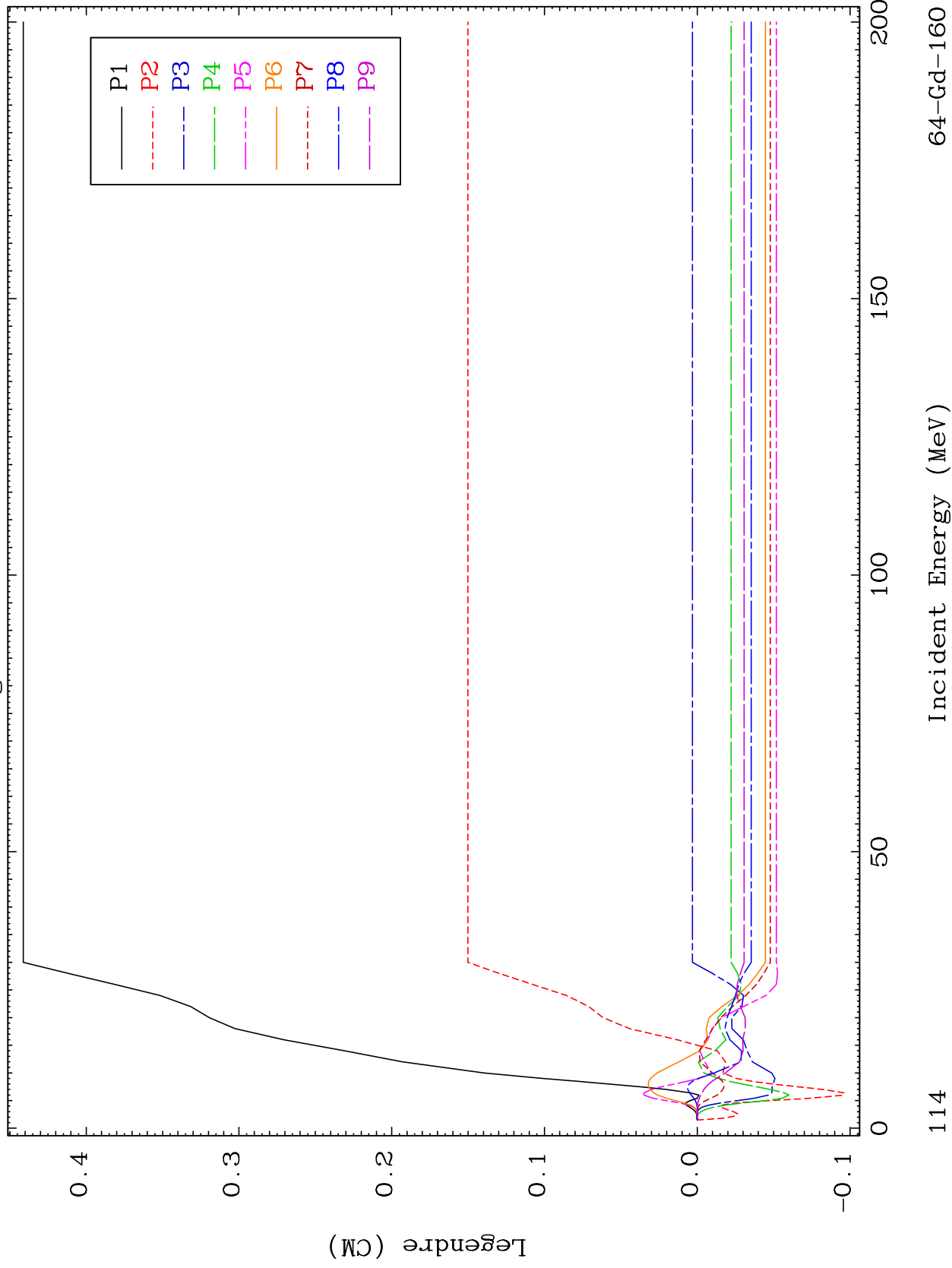
113

64-Gd-160

MAT 6449

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

64-Gd-160



64-Gd-160

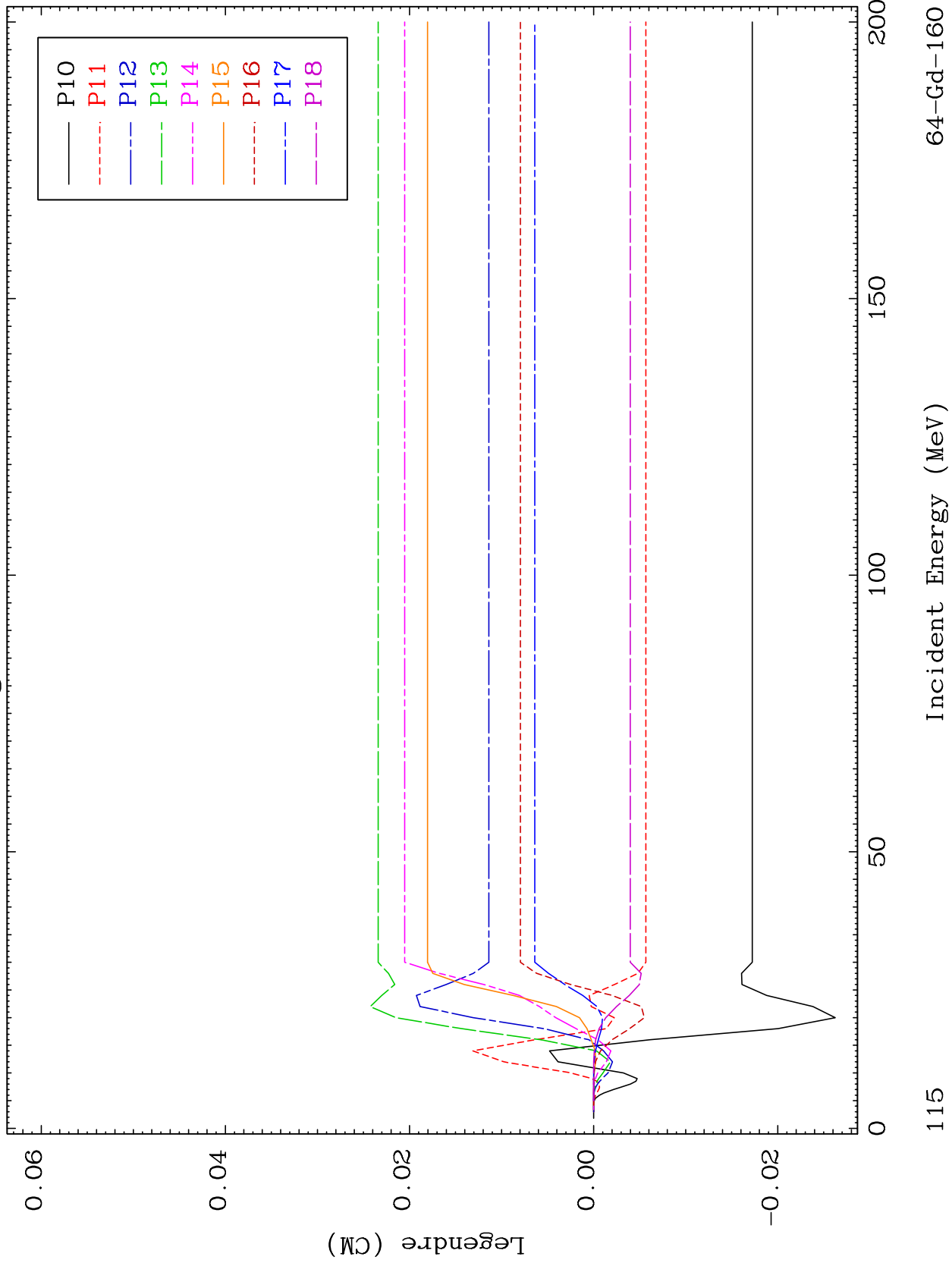
Incident Energy (MeV)

114

MAT 6449

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

64-Gd-160



64-Gd-160

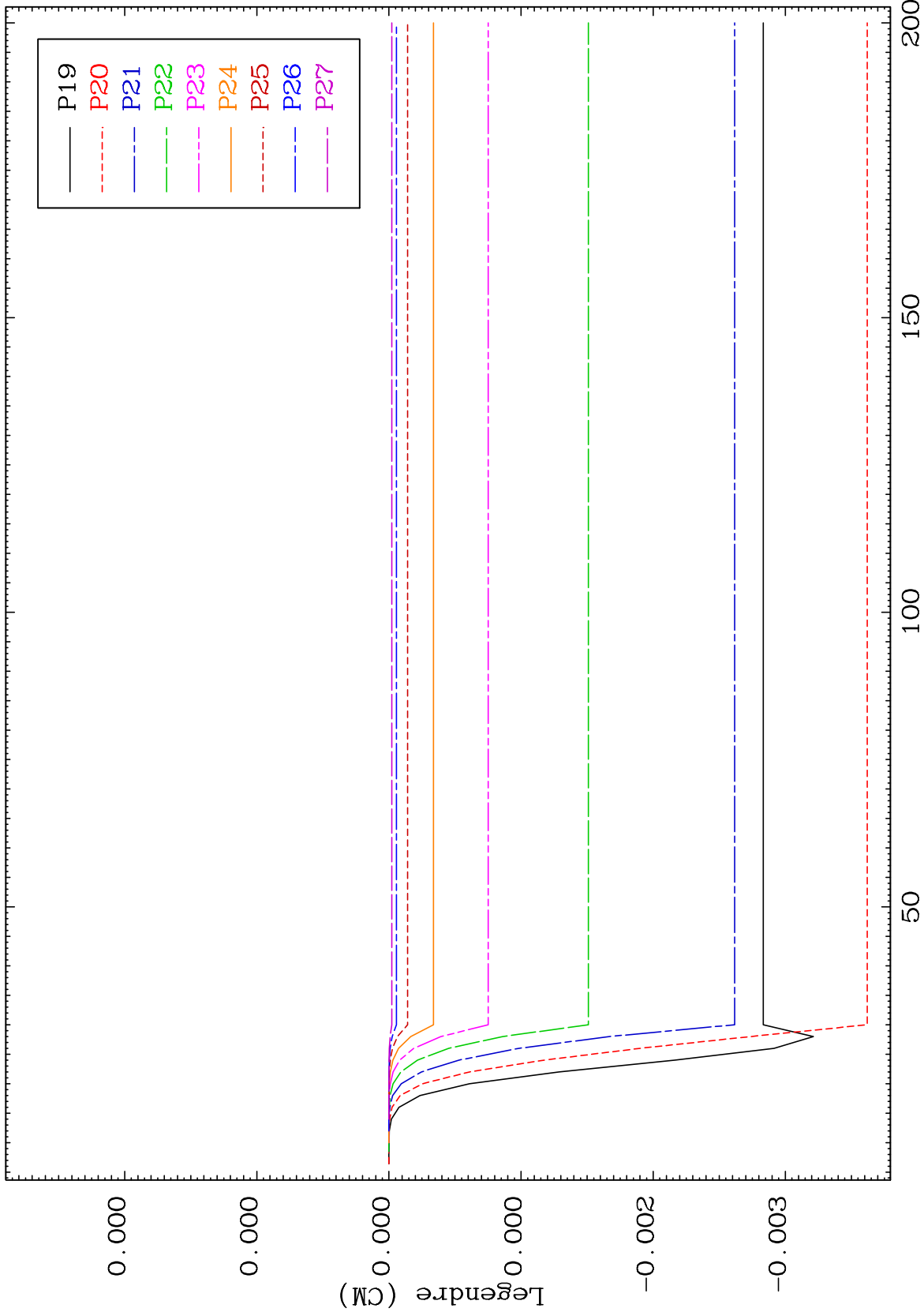
Incident Energy (MeV)

115

MAT 6449

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

64-Gd-160



116

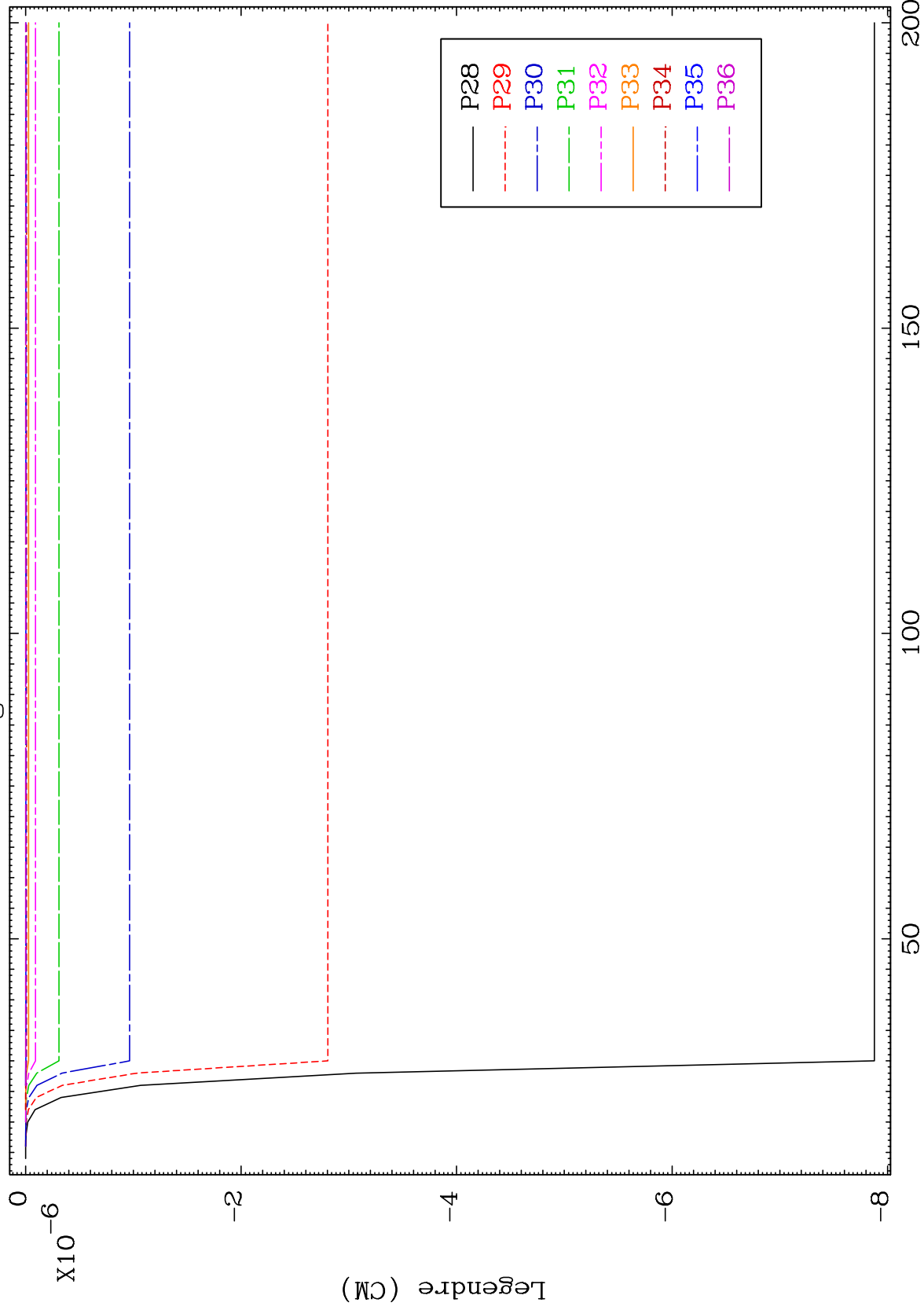
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160



117

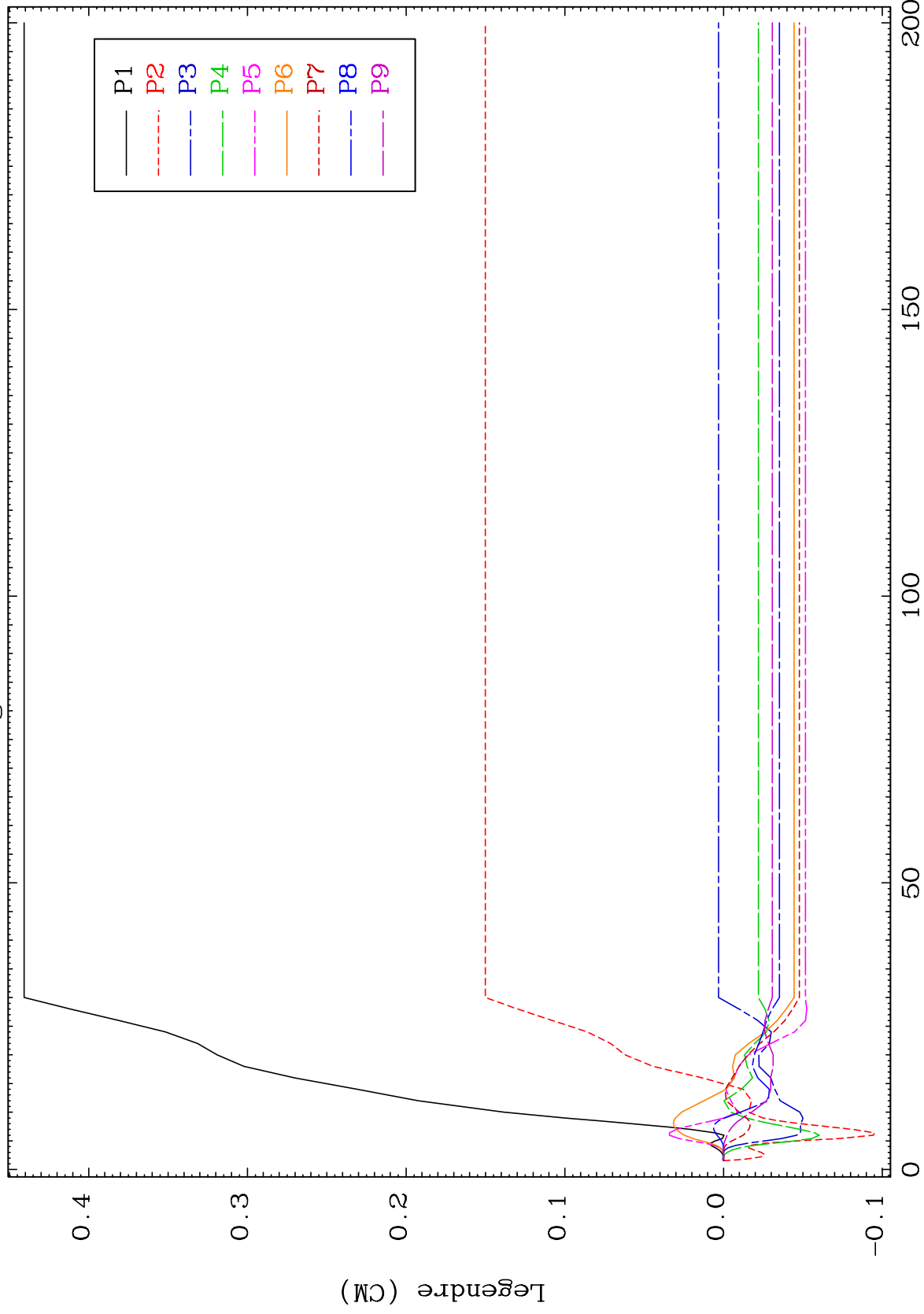
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

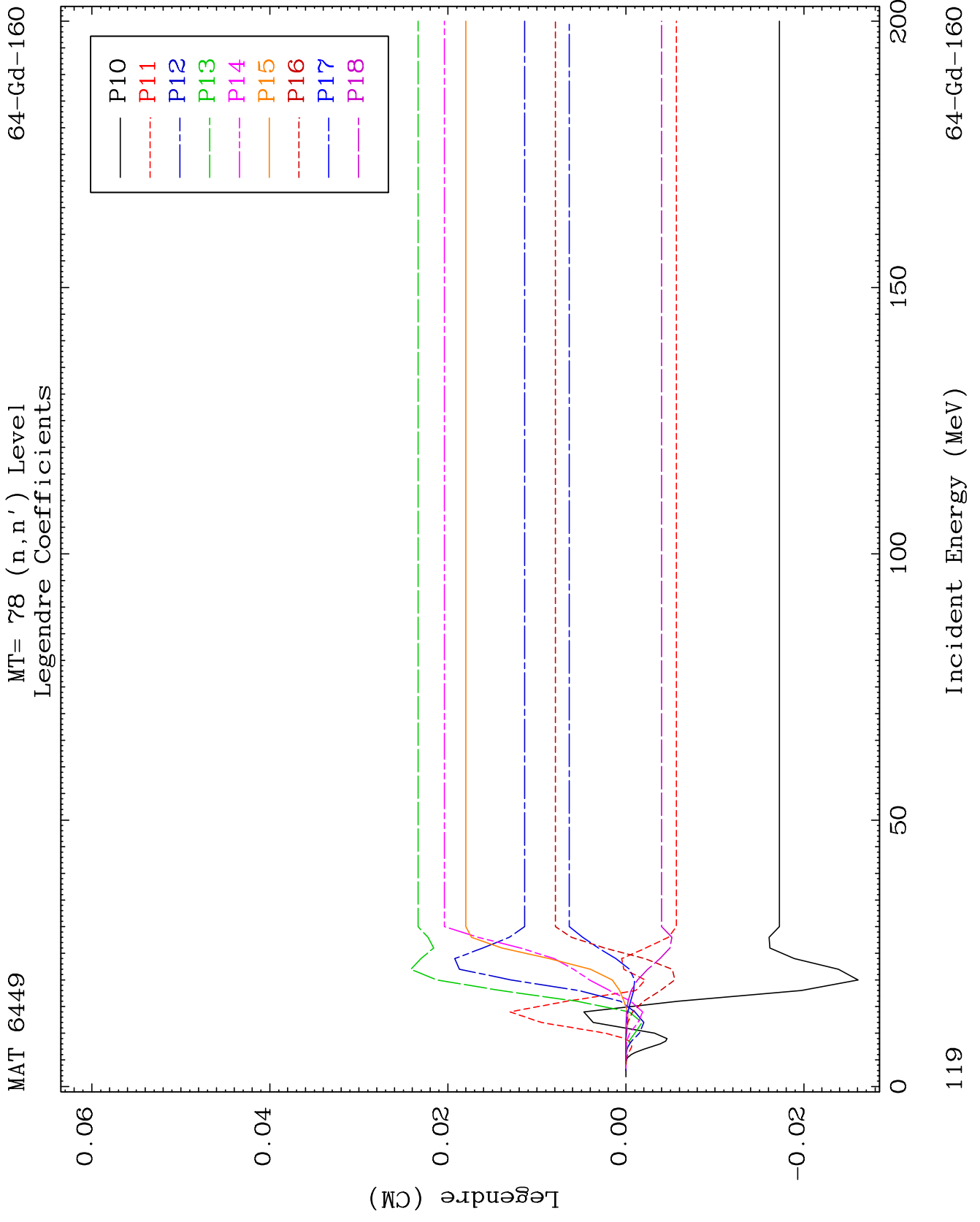
64-Gd-160



118

Incident Energy (MeV)

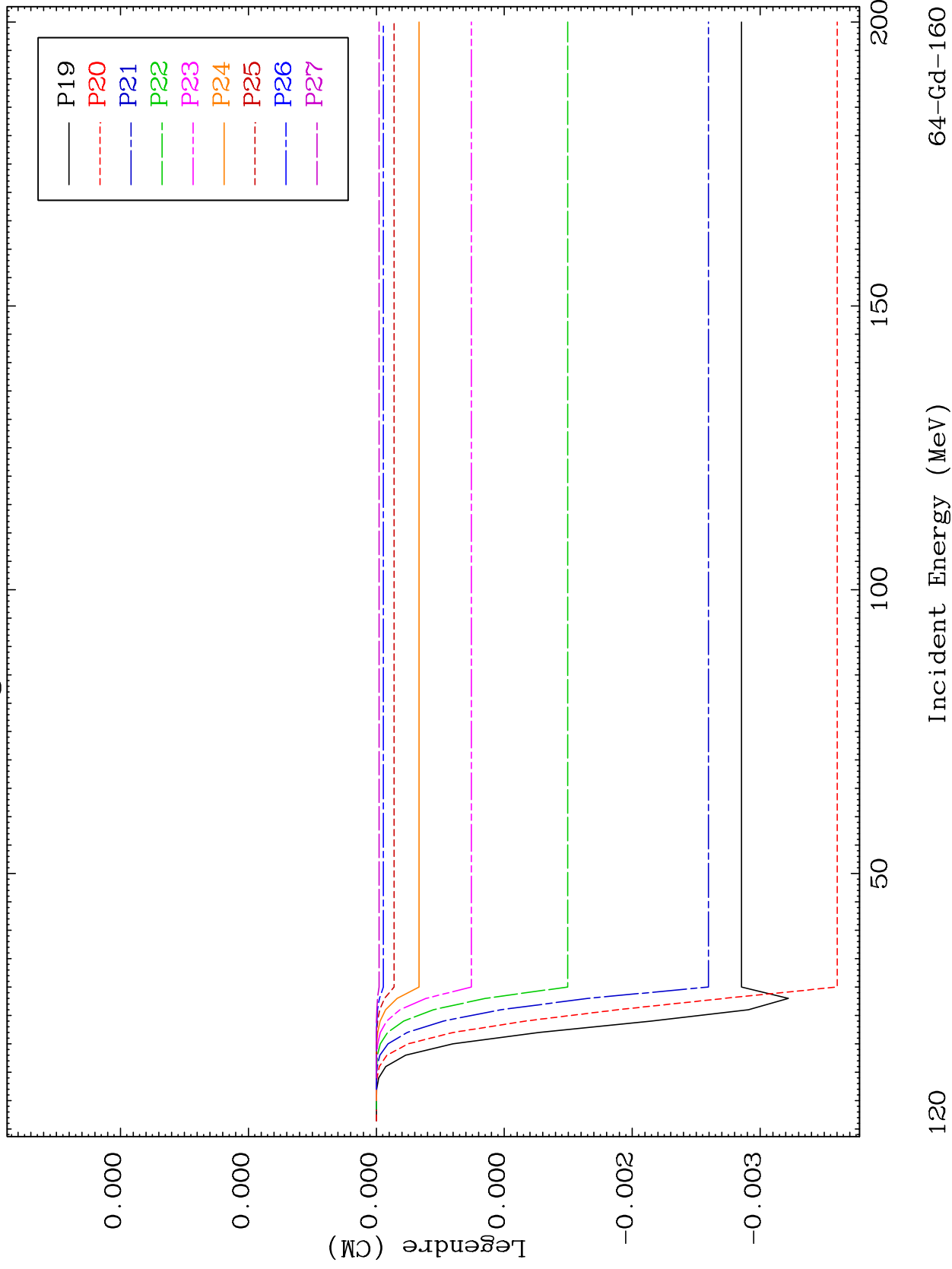
64-Gd-160



MAT 6449

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

64-Gd-160



120

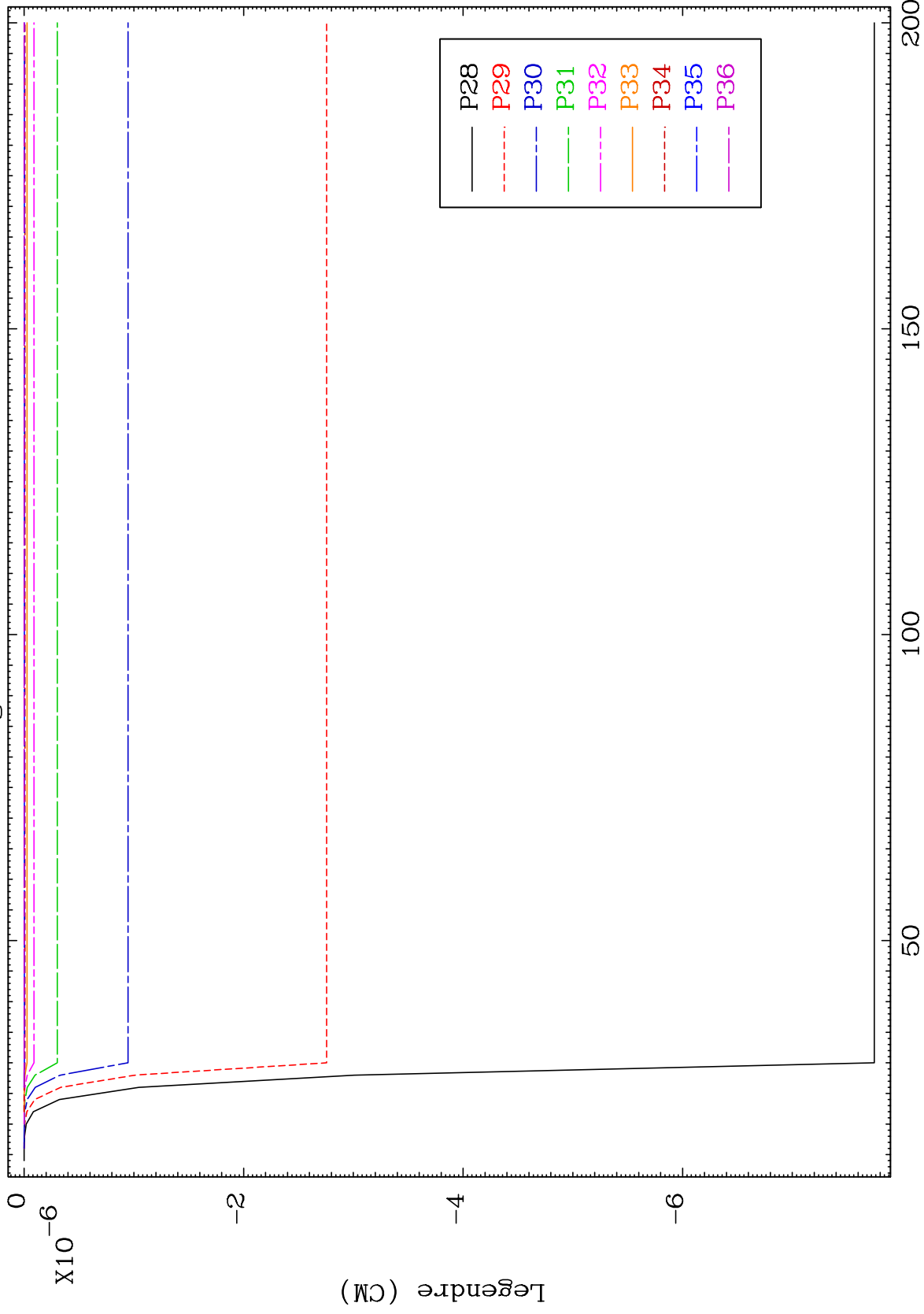
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160



121

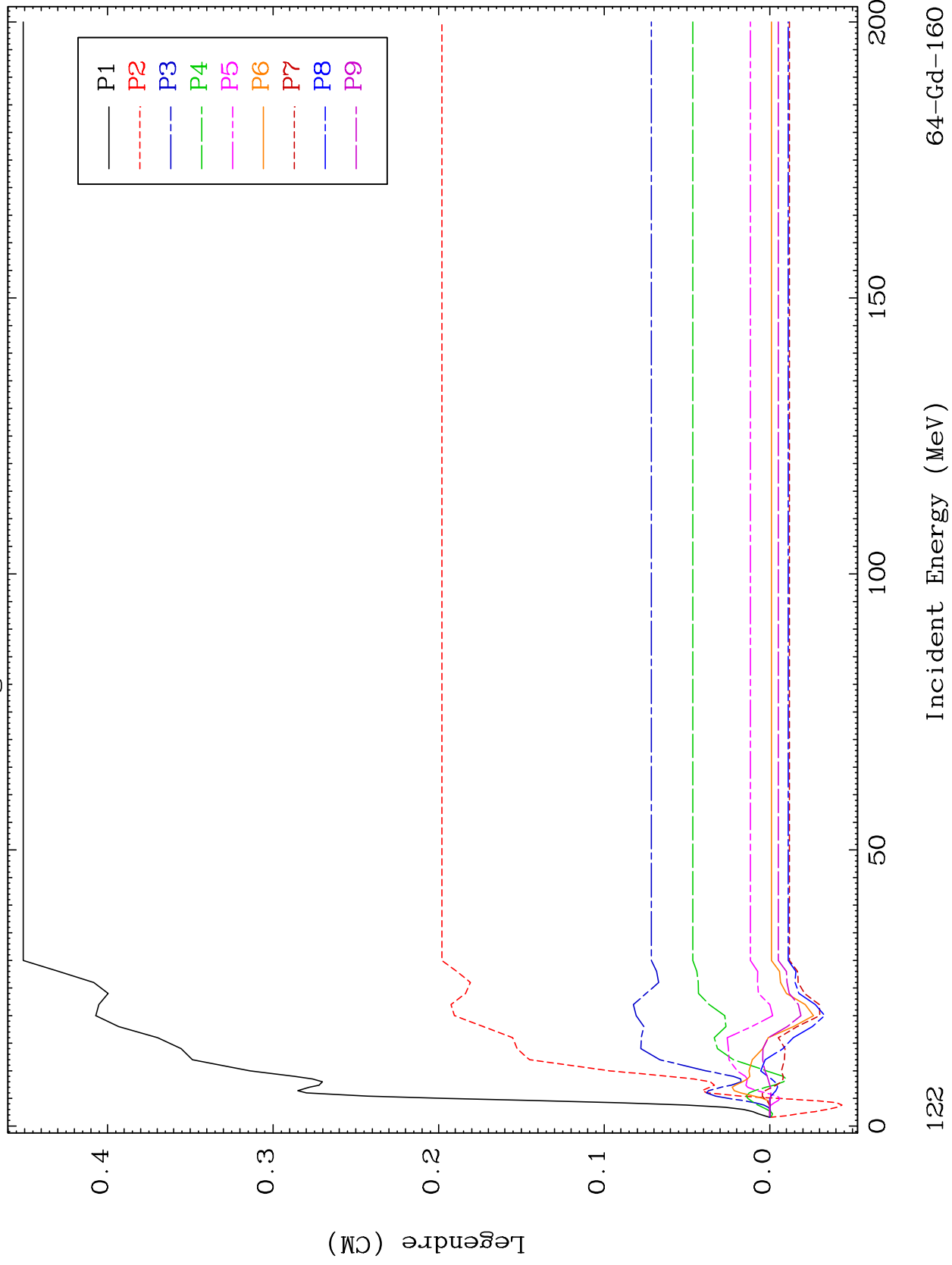
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160



64-Gd-160

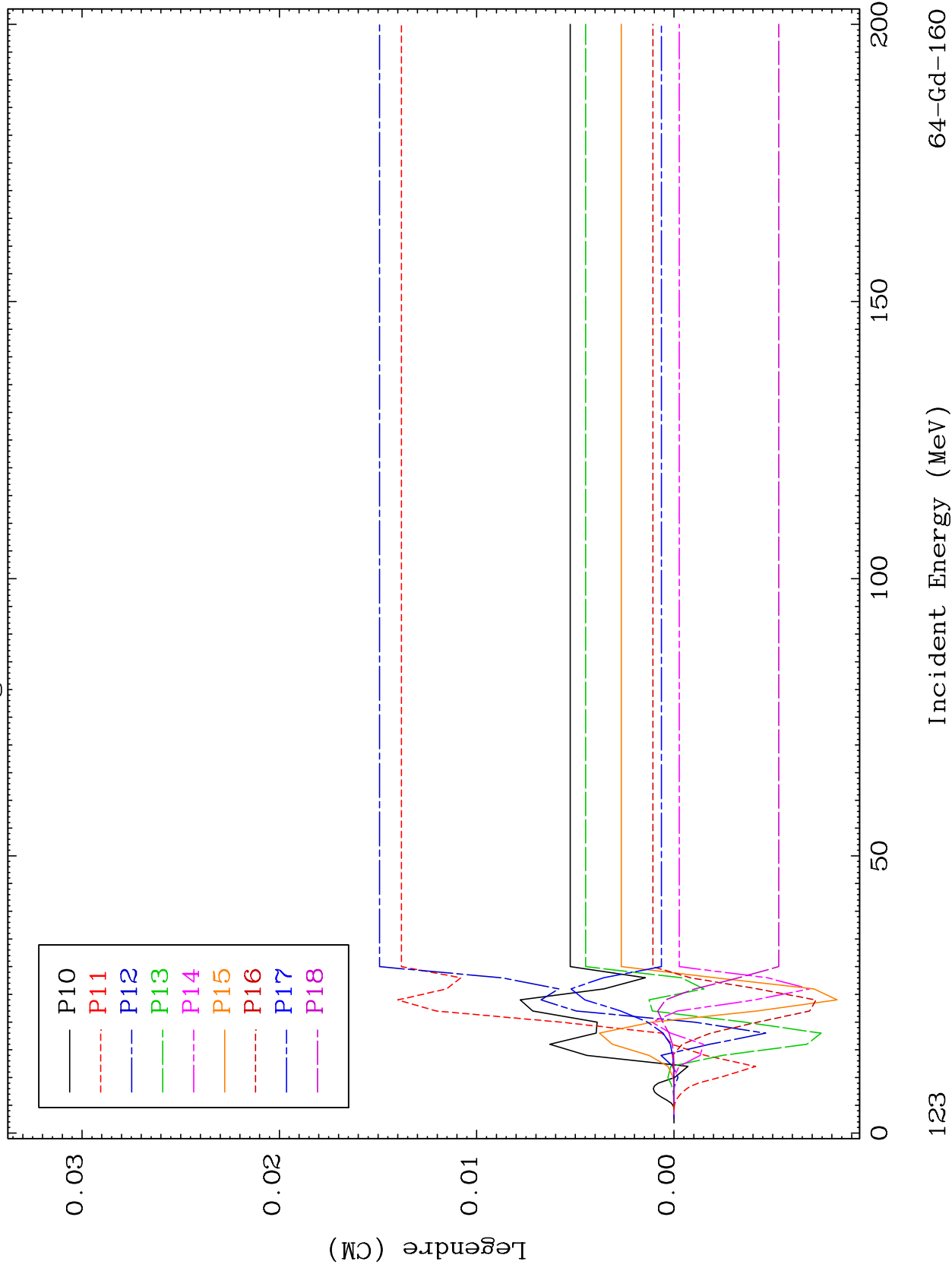
Incident Energy (MeV)

122

MAT 6449

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

64-Gd-160



123

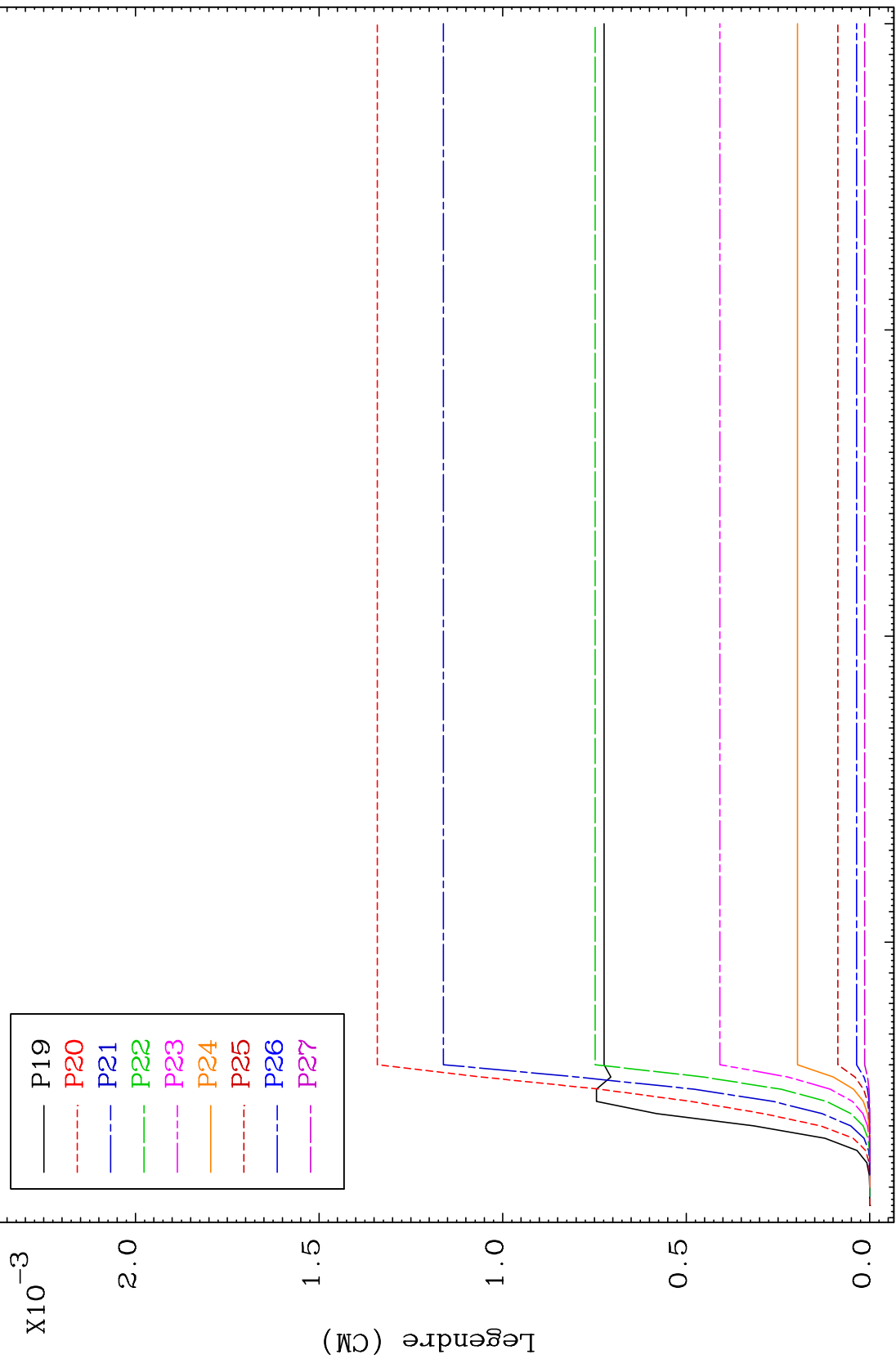
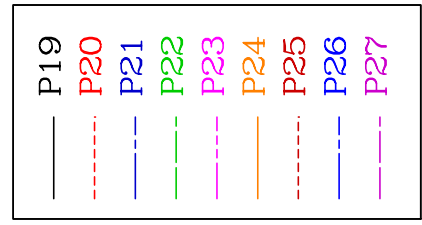
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160



124

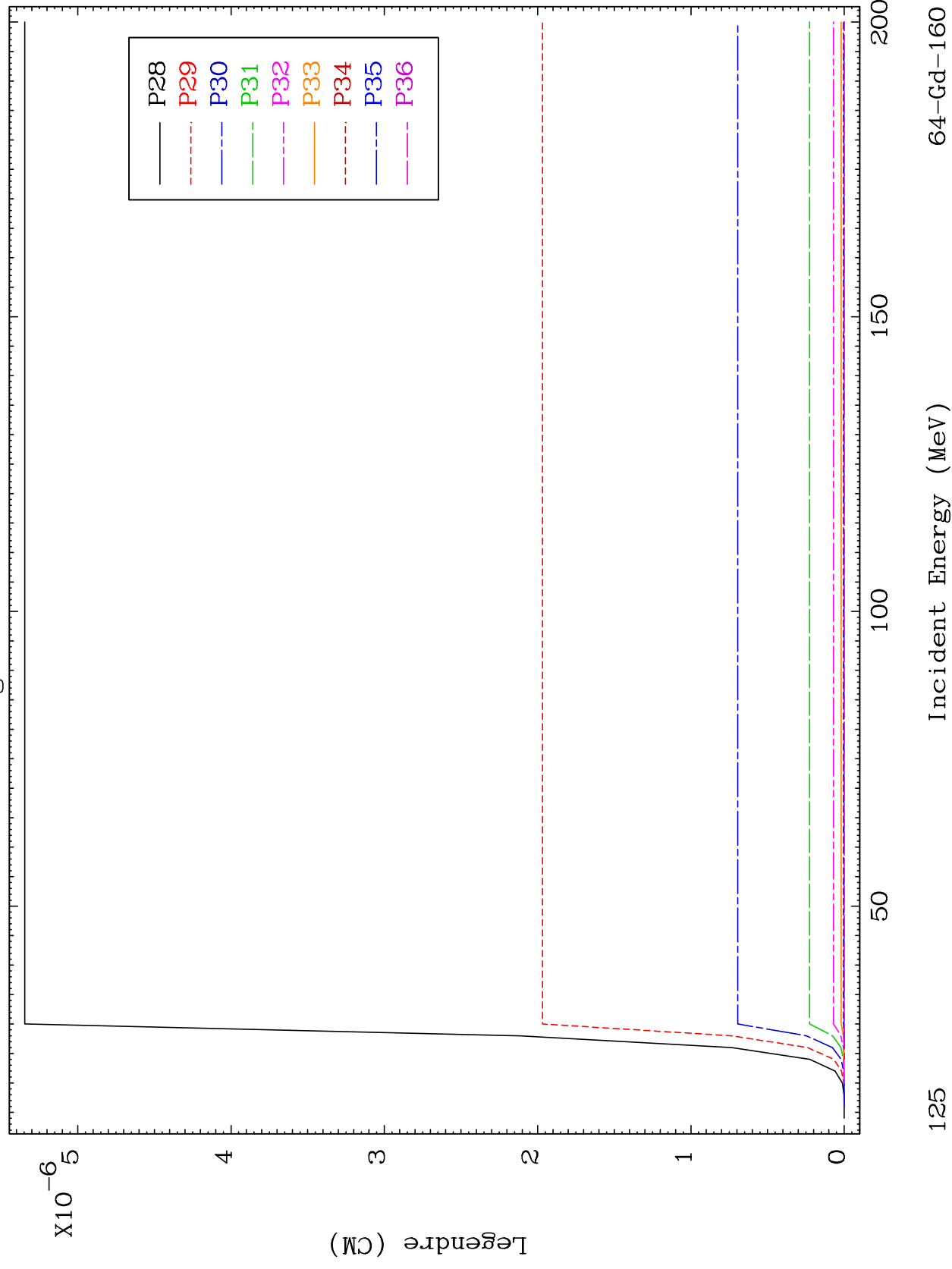
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160



125

Incident Energy (MeV)

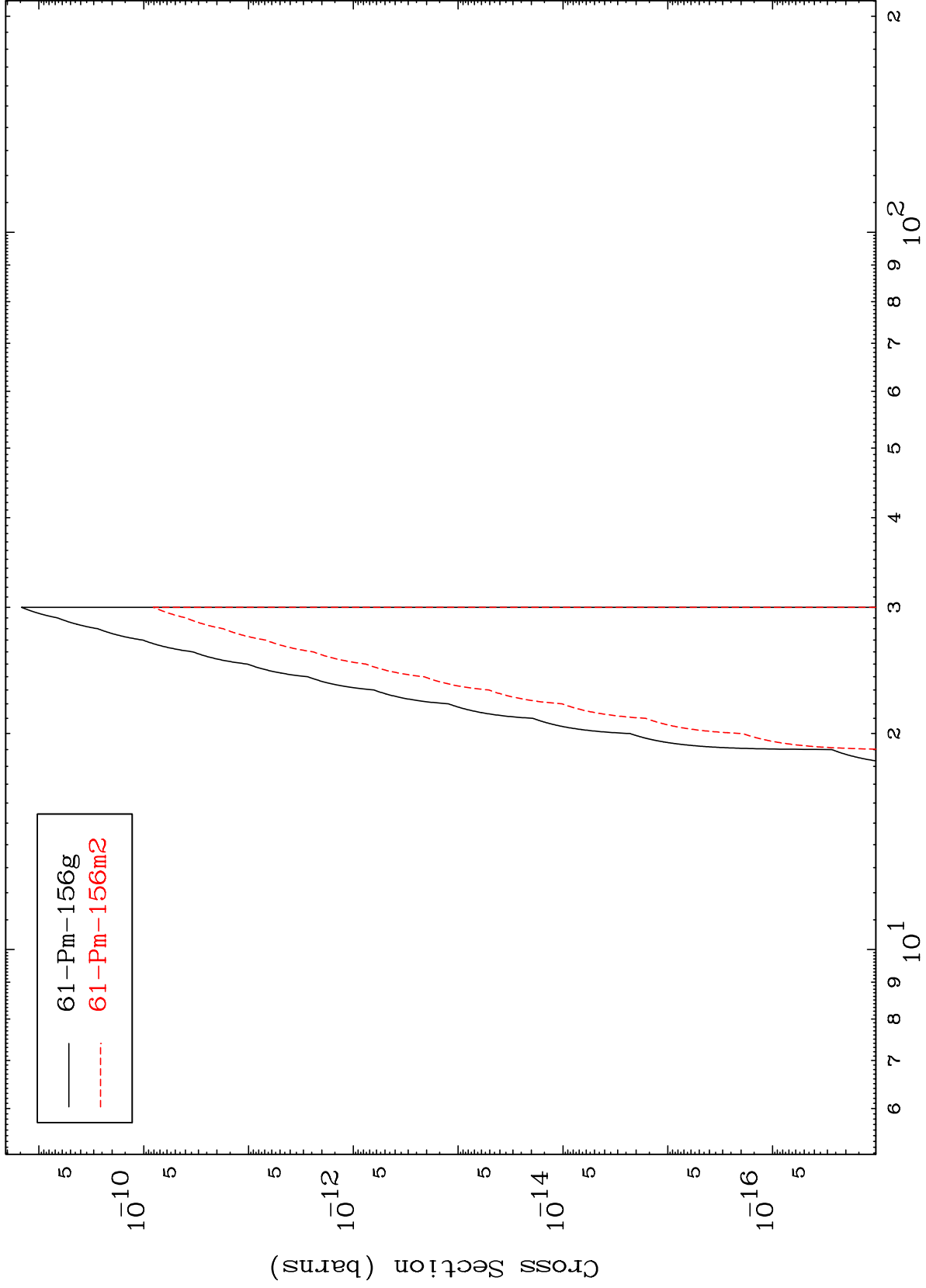
64-Gd-160

MAT 6449

(n,p) α

64-Gd-160

Radionuclide Production Cross Section



61-Pm-156g
61-Pm-156m2

126

Incident Energy (MeV)

64-Gd-160