

Program EVALPLOT  
(Version 2021-1)

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

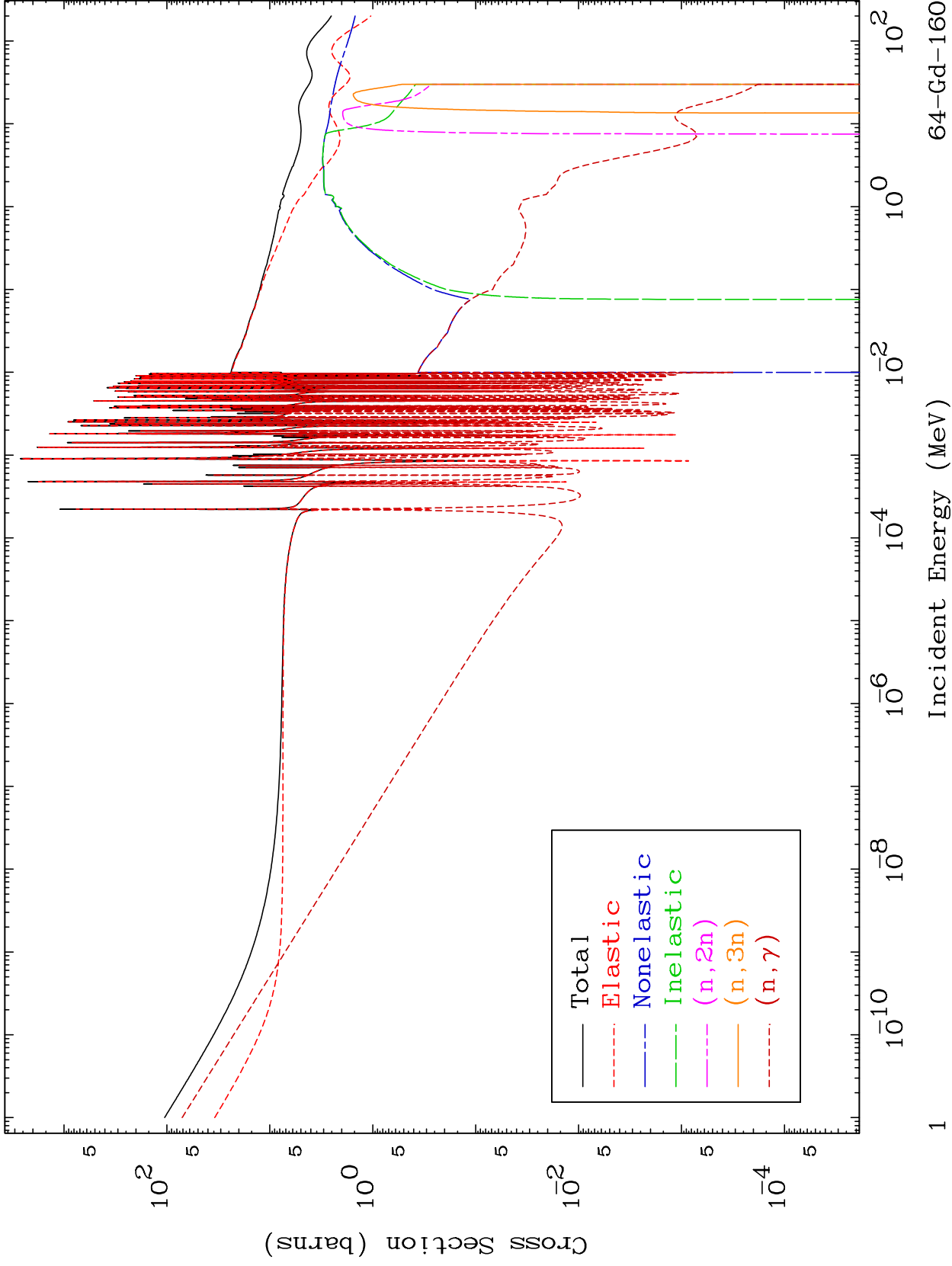
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6449

Neutron Major  
293 Kelvin Cross Sections

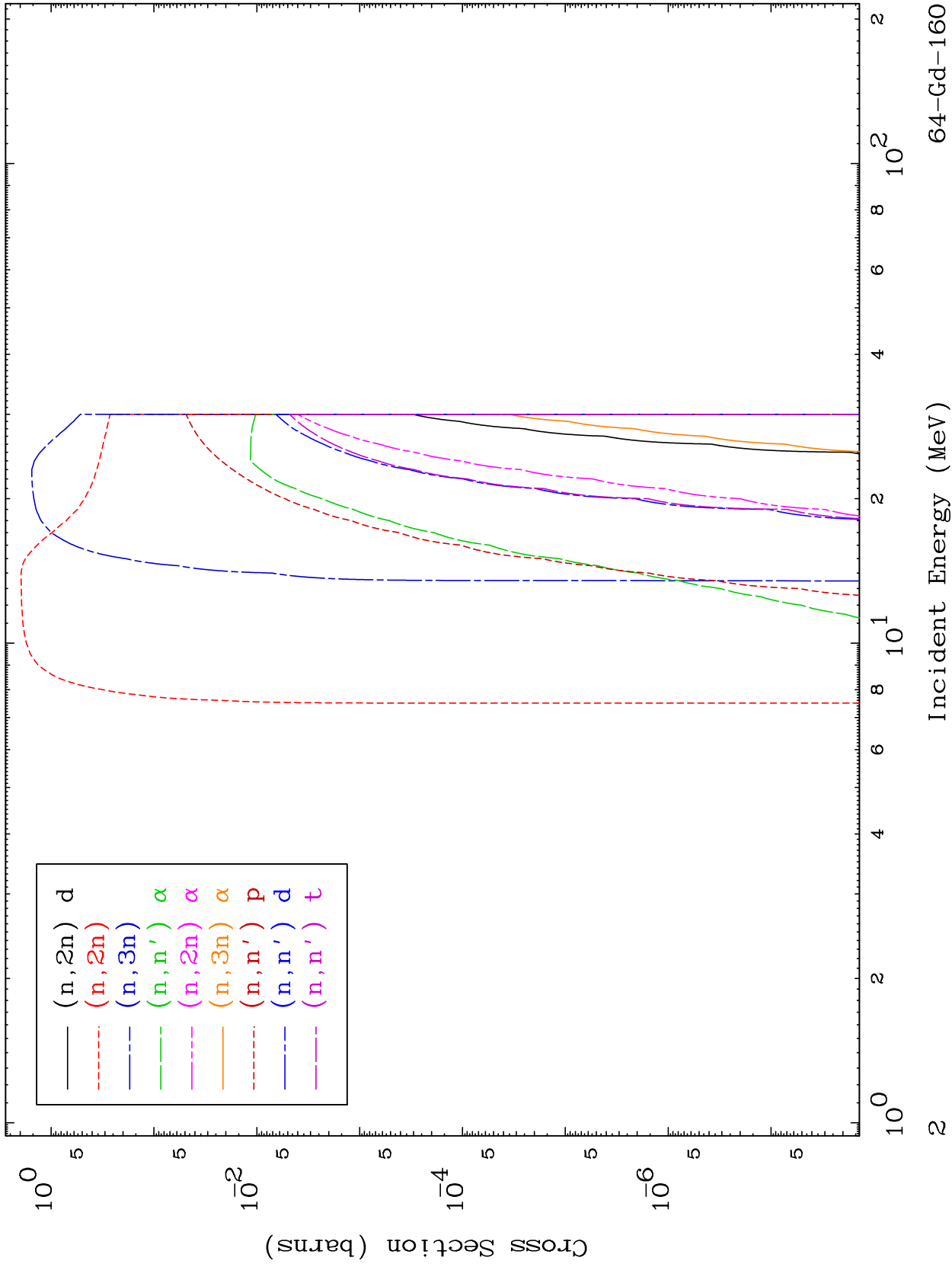
64-Gd-160



MAT 6449

Neutron Absorption  
293 Kelvin Cross Sections

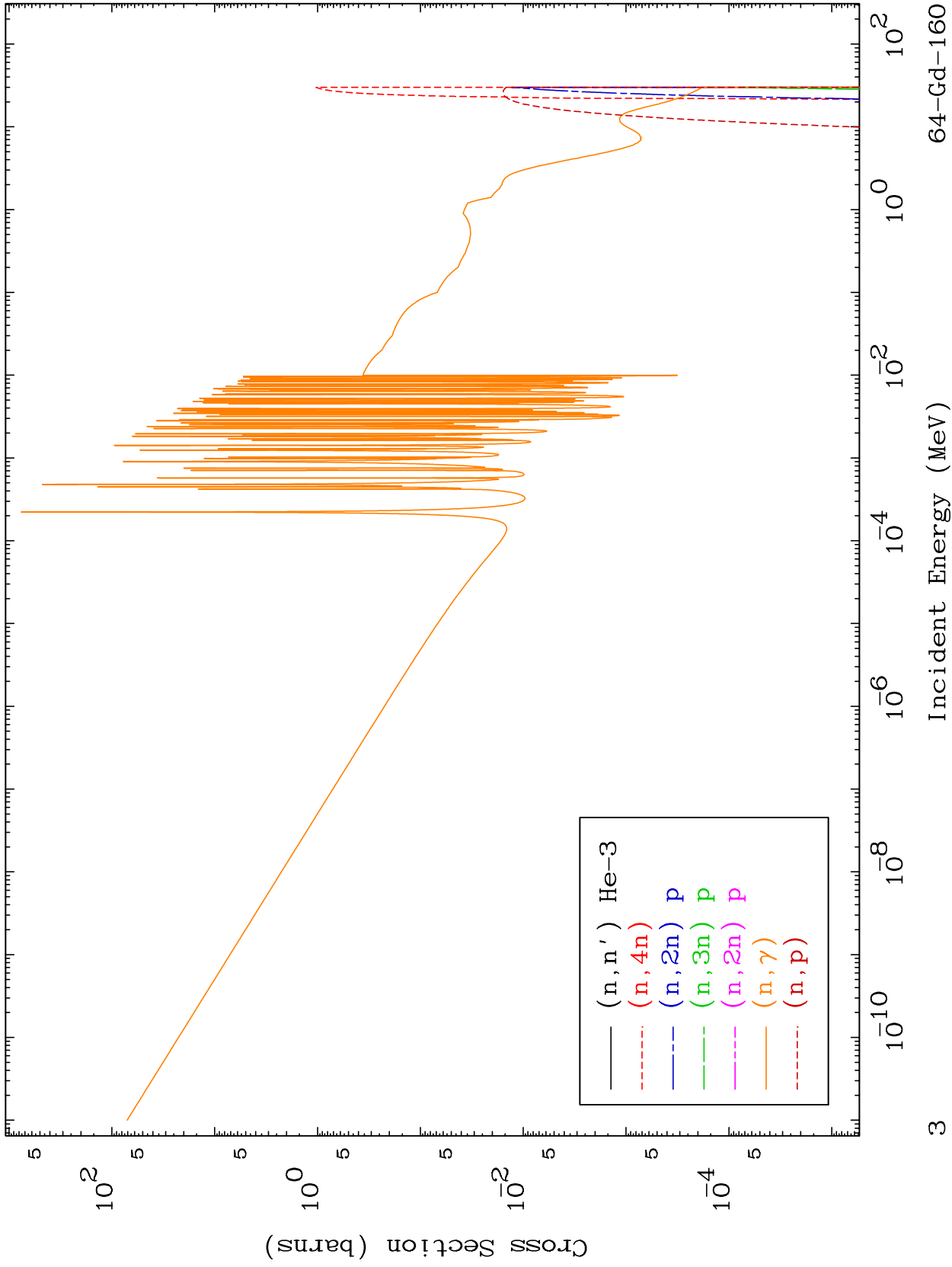
64-Gd-160



MAT 6449

Neutron Absorption  
293 Kelvin Cross Sections

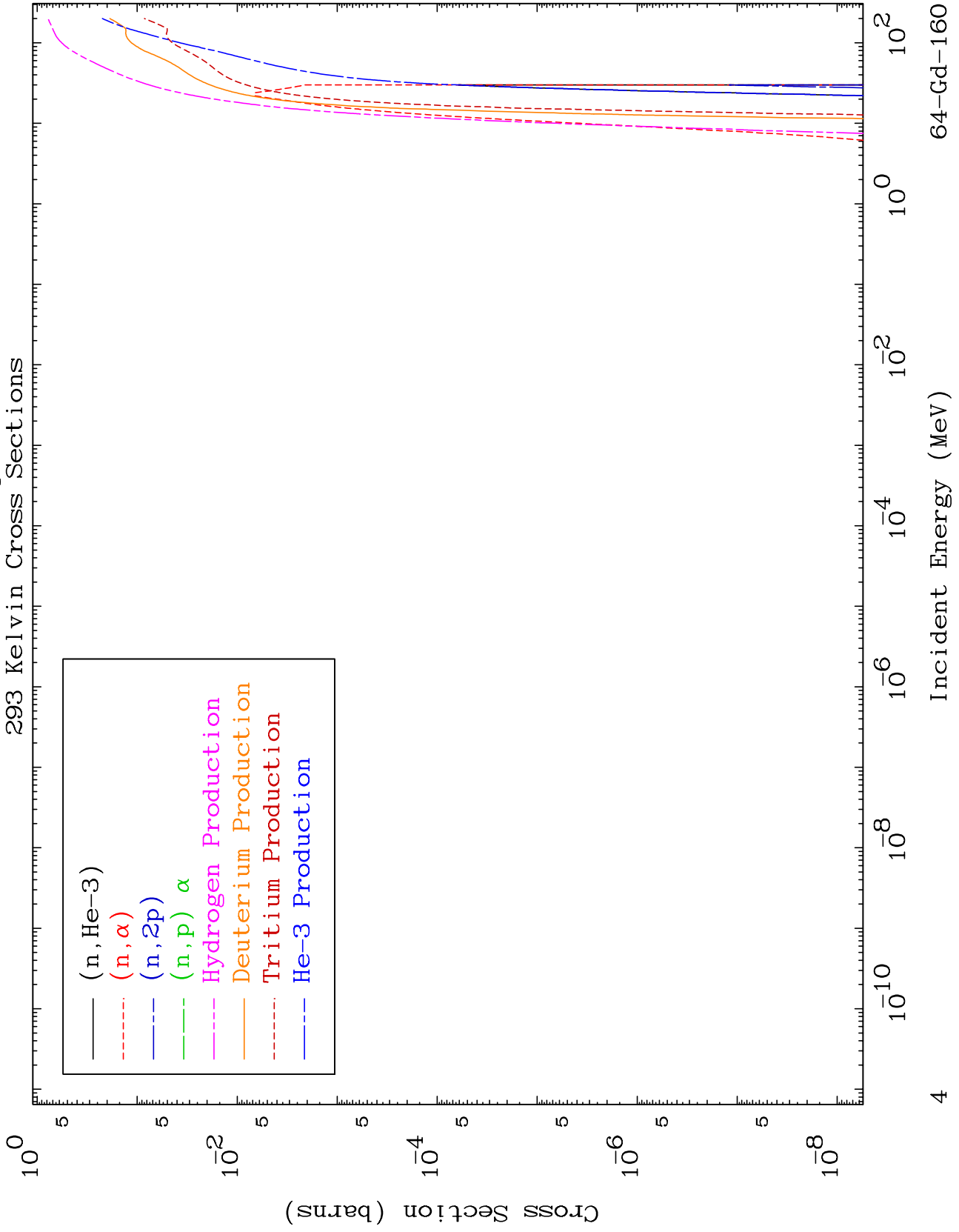
64-Gd-160



MAT 6449

Neutron Absorption  
293 Kelvin Cross Sections

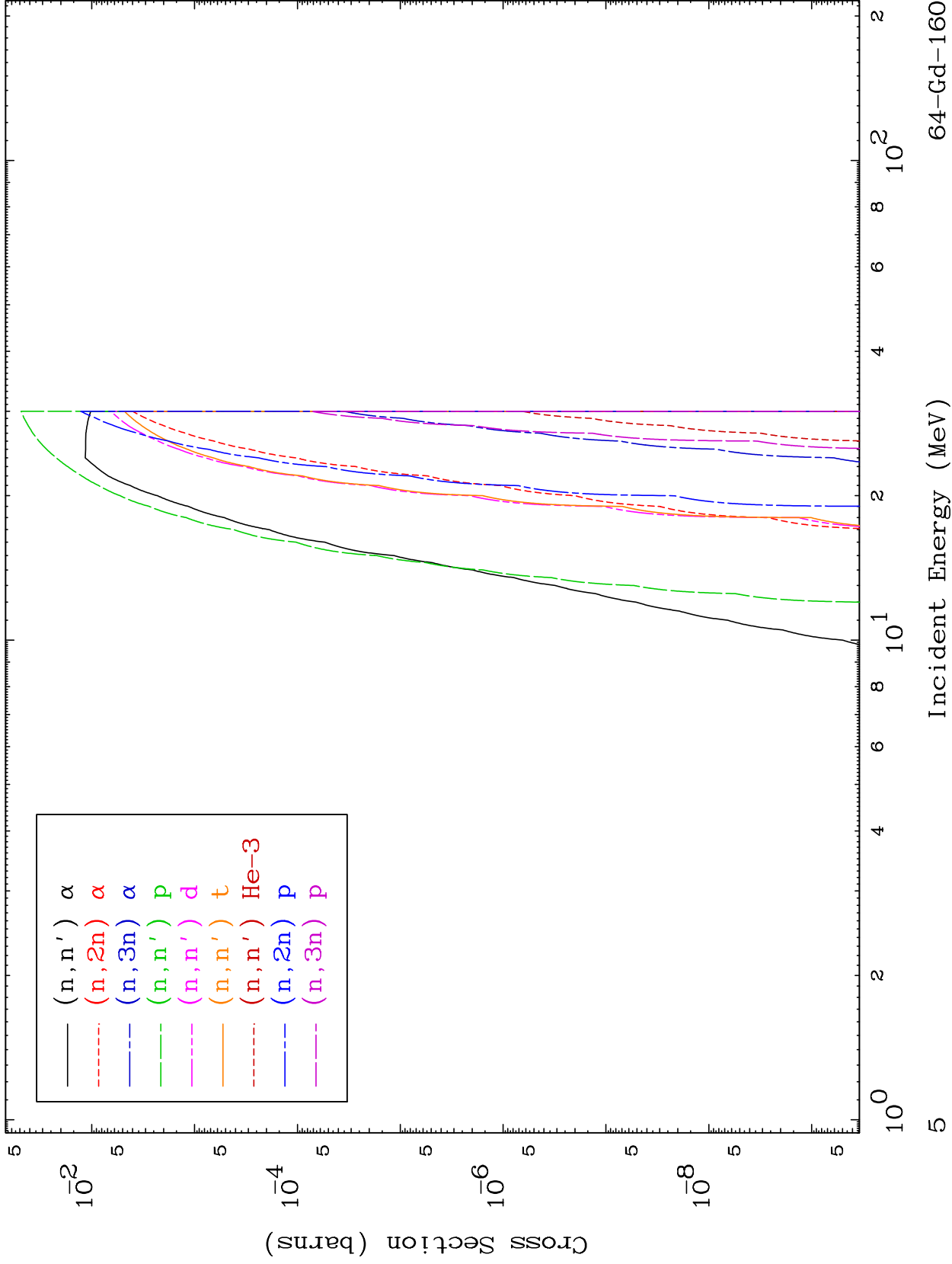
64-Gd-160



MAT 6449

Charged Particle  
293 Kelvin Cross Sections

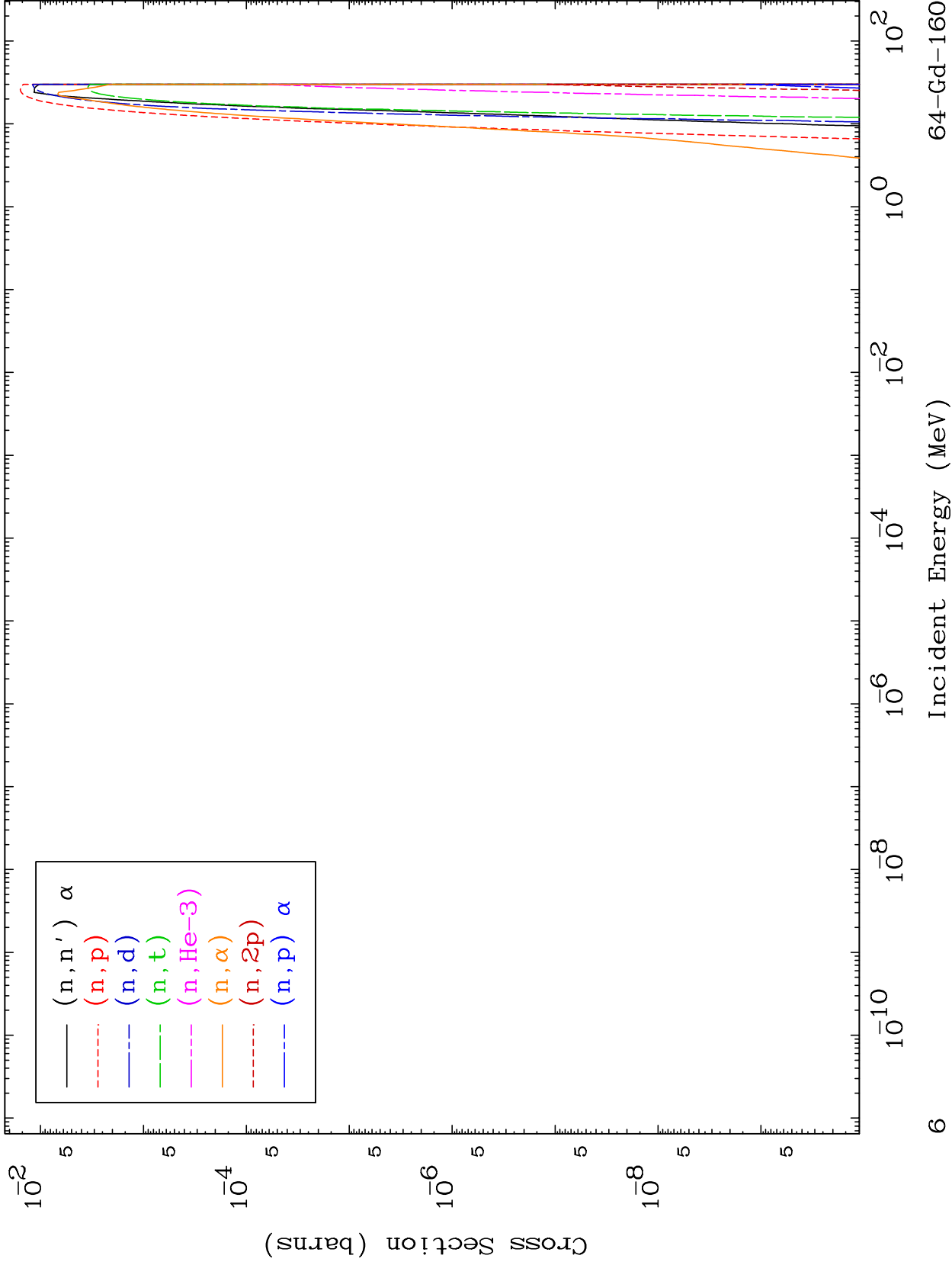
64-Gd-160



MAT 6449

Charged Particle  
293 Kelvin Cross Sections

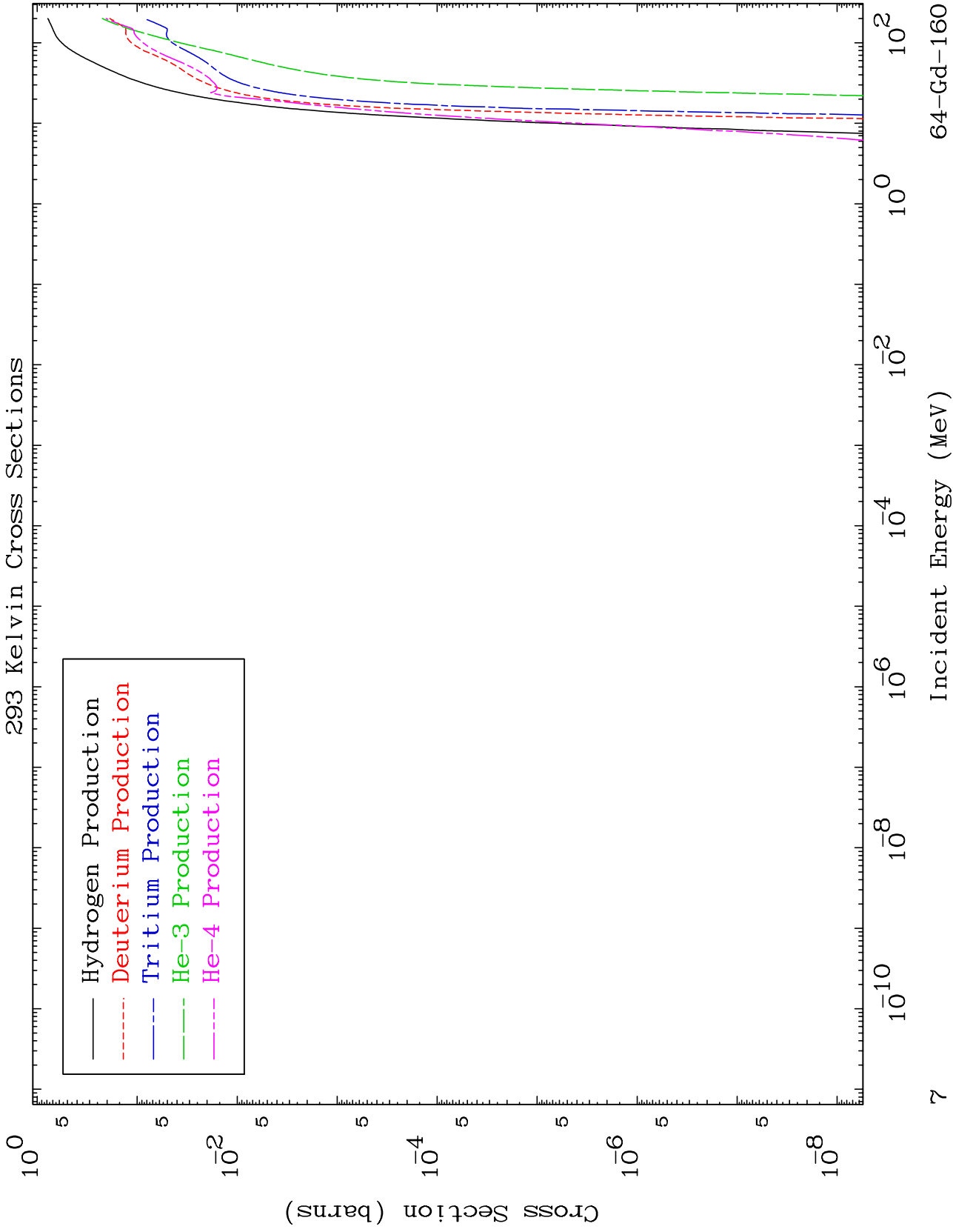
64-Gd-160



MAT 6449

Particle Production  
293 Kelvin Cross Sections

64-Gd-160

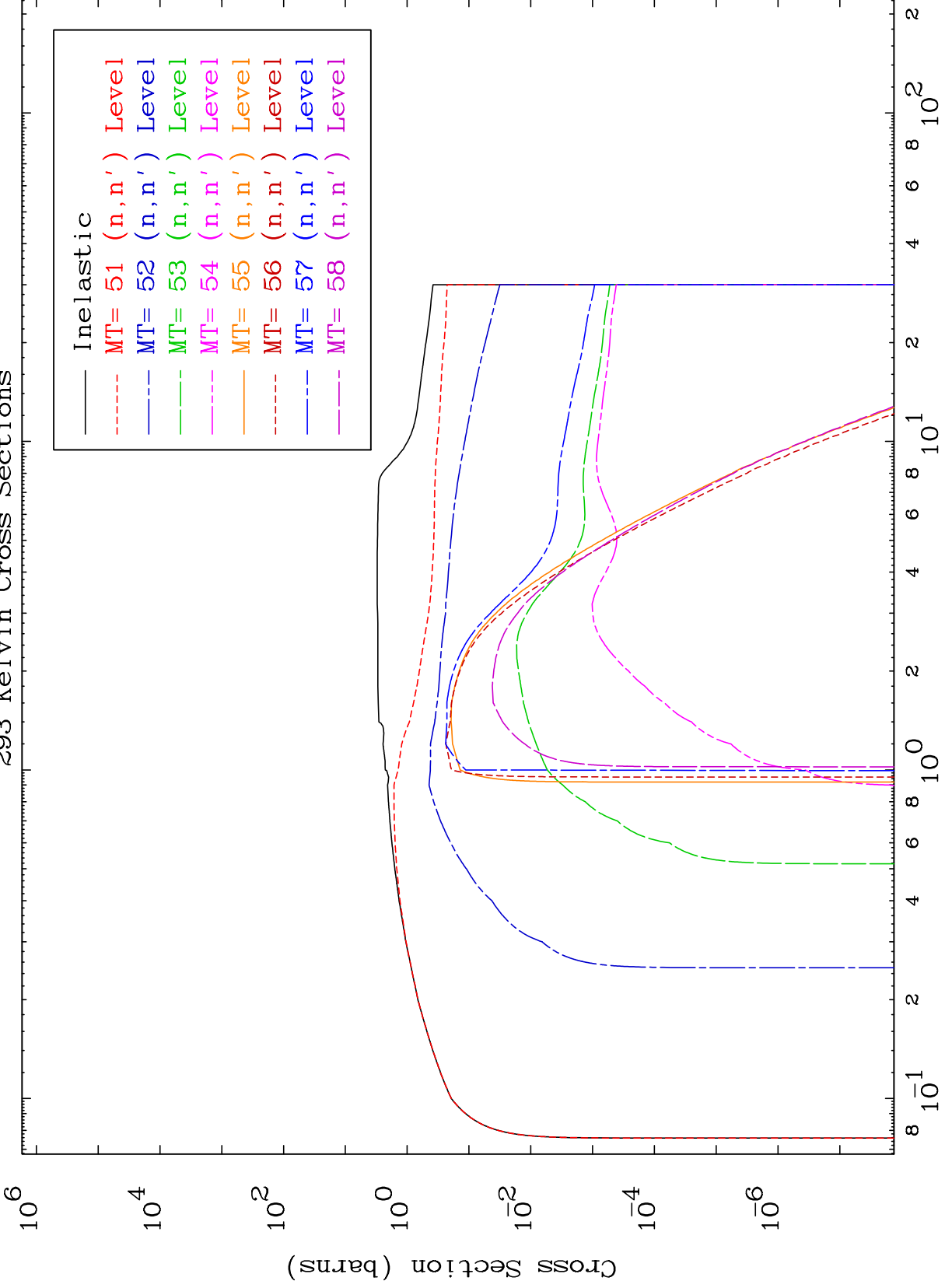


MAT 6449

(n,n') Levels

64-Gd-160

293 Kelvin Cross Sections



8

Incident Energy (MeV)

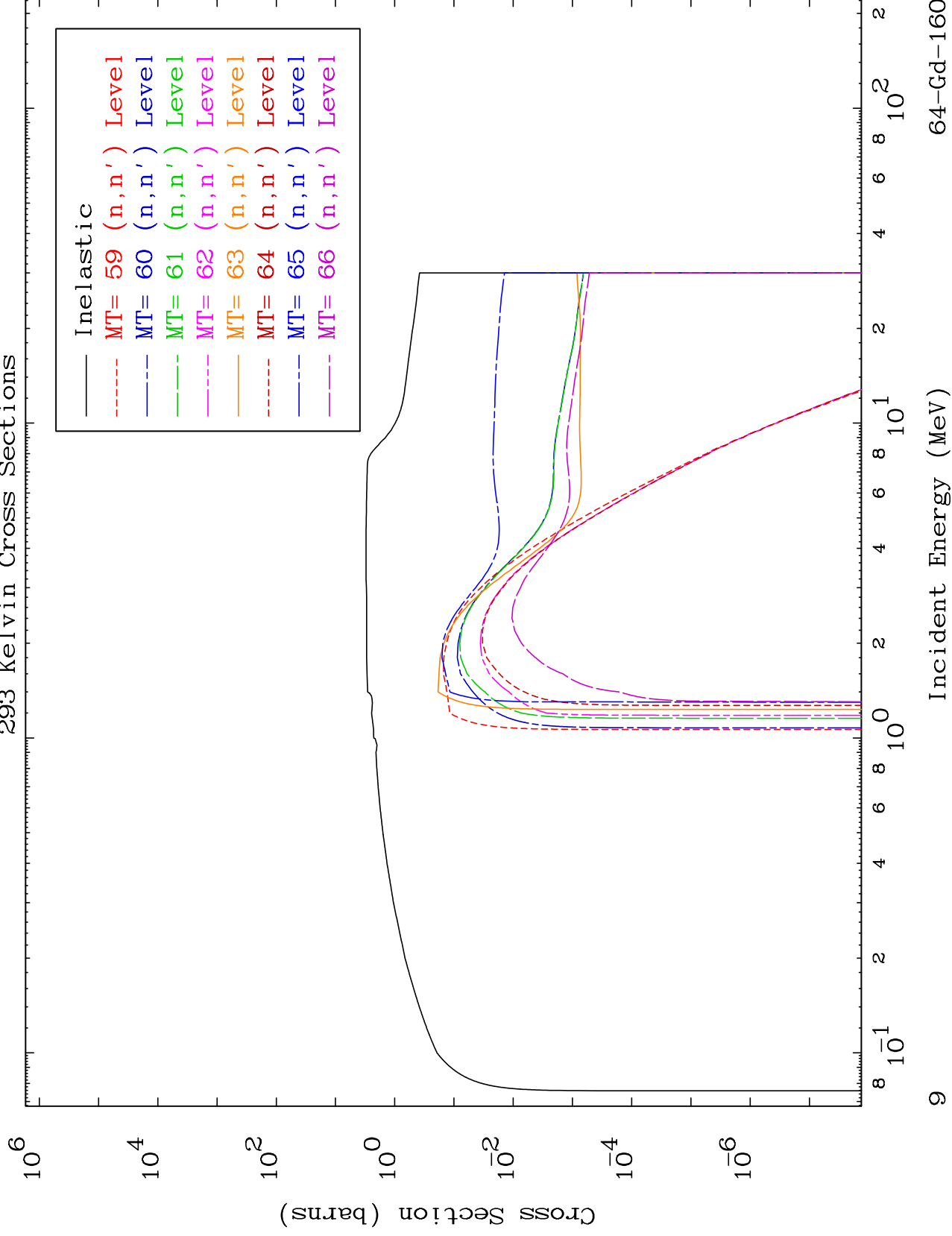
64-Gd-160

MAT 6449

(n,n') Levels

64-Gd-160

293 Kelvin Cross Sections



9

Incident Energy (MeV)

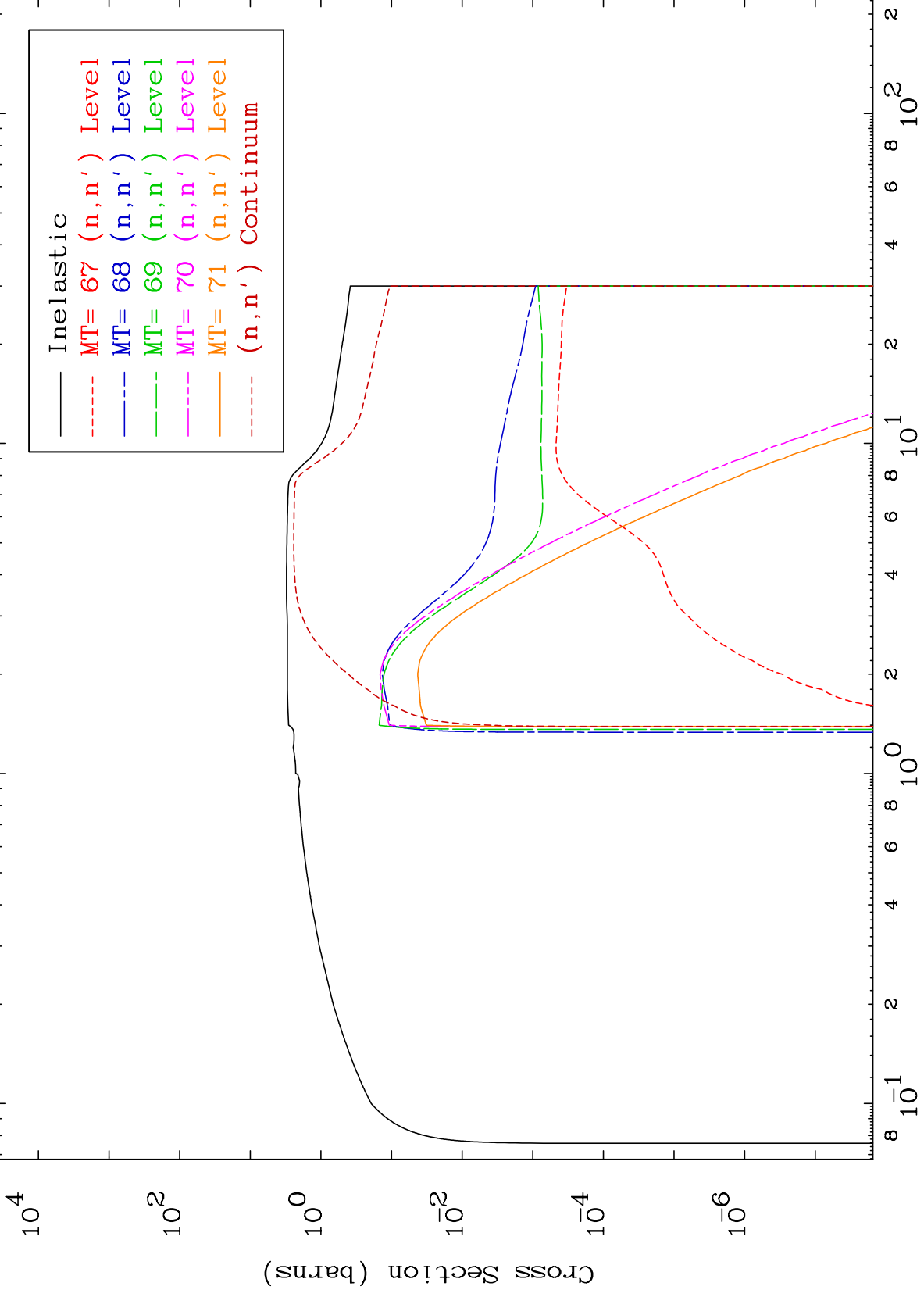
64-Gd-160

MAT 6449

(n,n') Levels

64-Gd-160

293 Kelvin Cross Sections



10

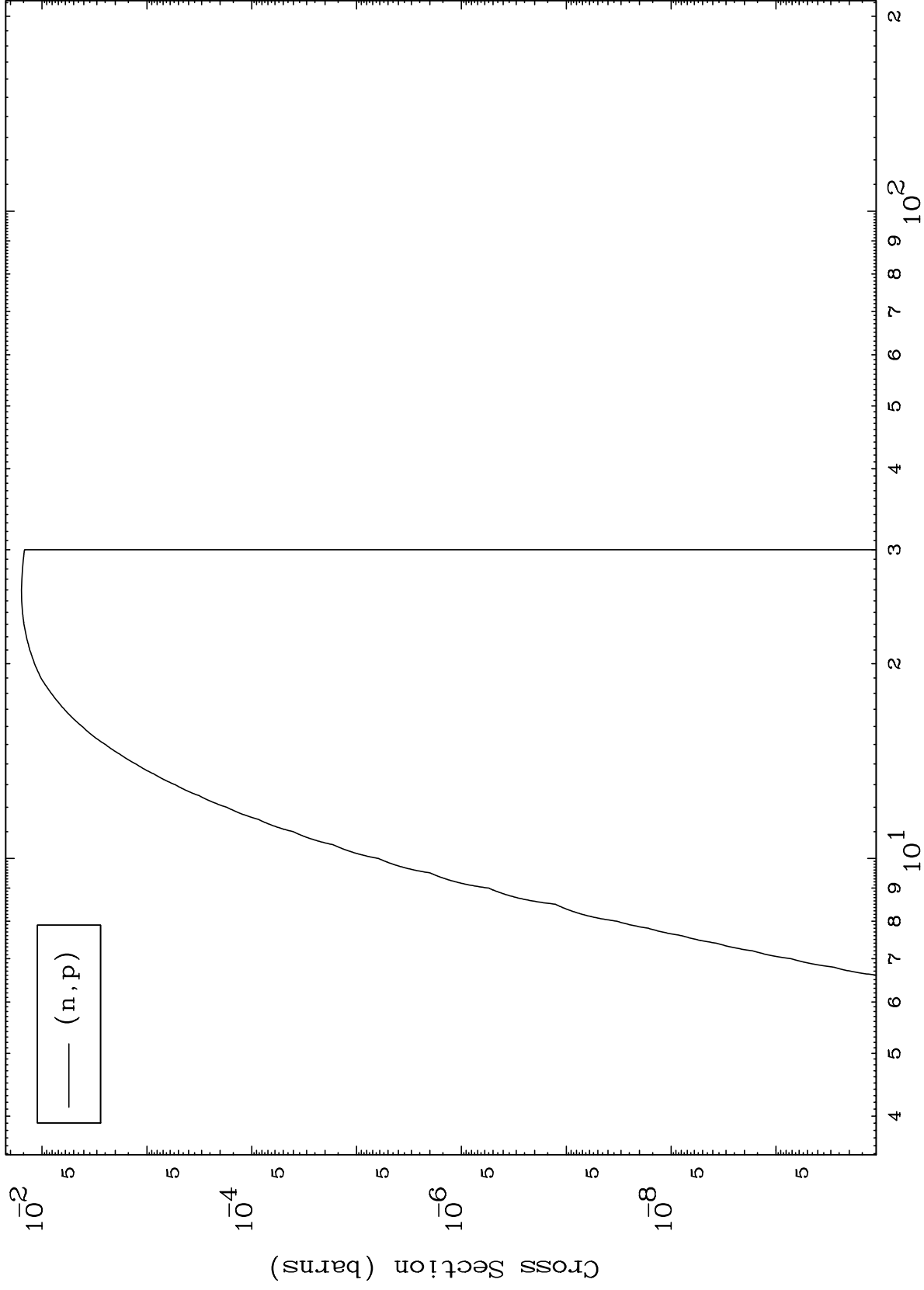
Incident Energy (MeV)

64-Gd-160

MAT 6449

(n,p) Levels  
293 Kelvin Cross Sections

64-Gd-160



(n,p)

11

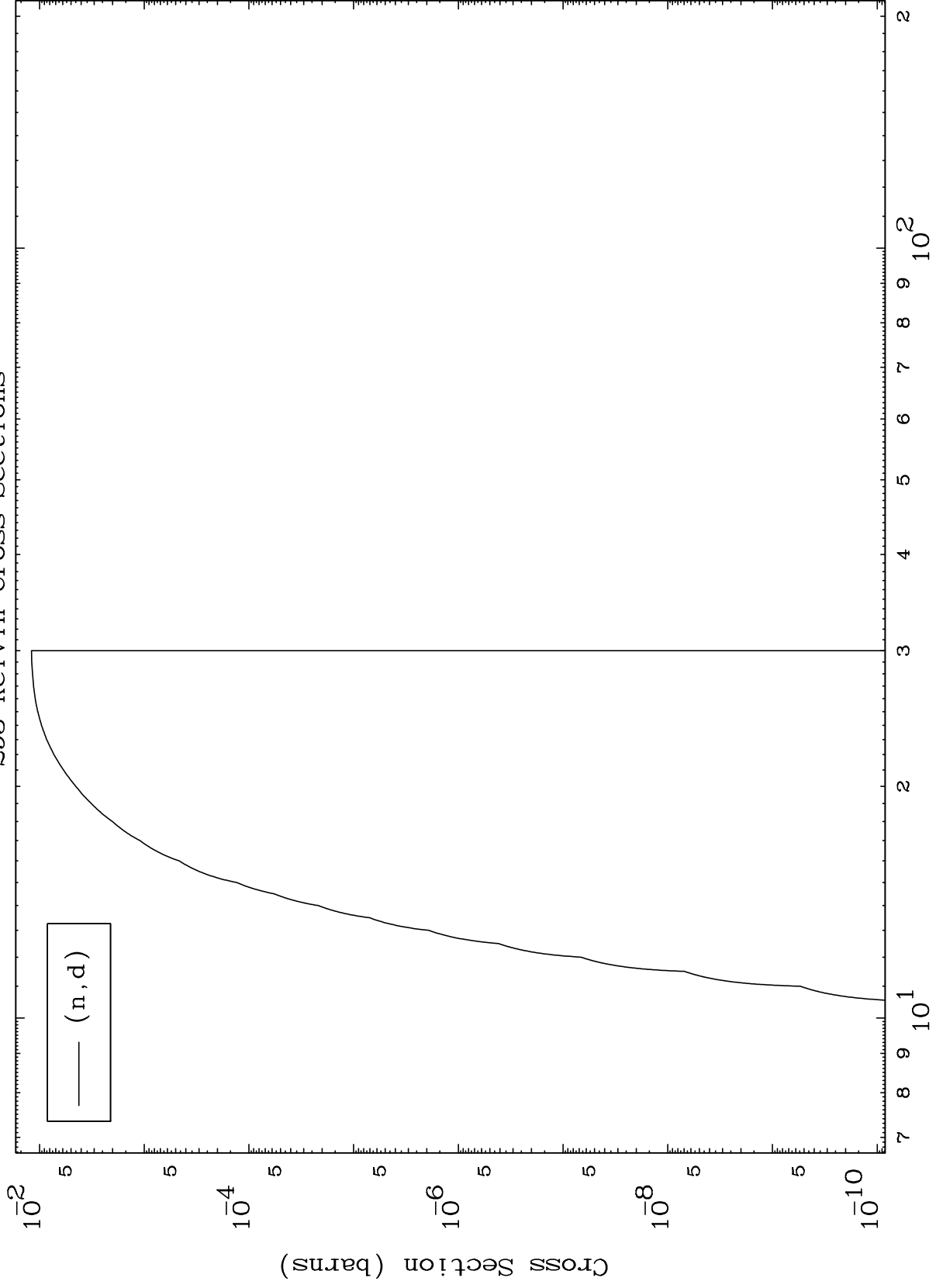
Incident Energy (MeV)

64-Gd-160

MAT 6449

(n,d) Levels  
293 Kelvin Cross Sections

64-Gd-160



12

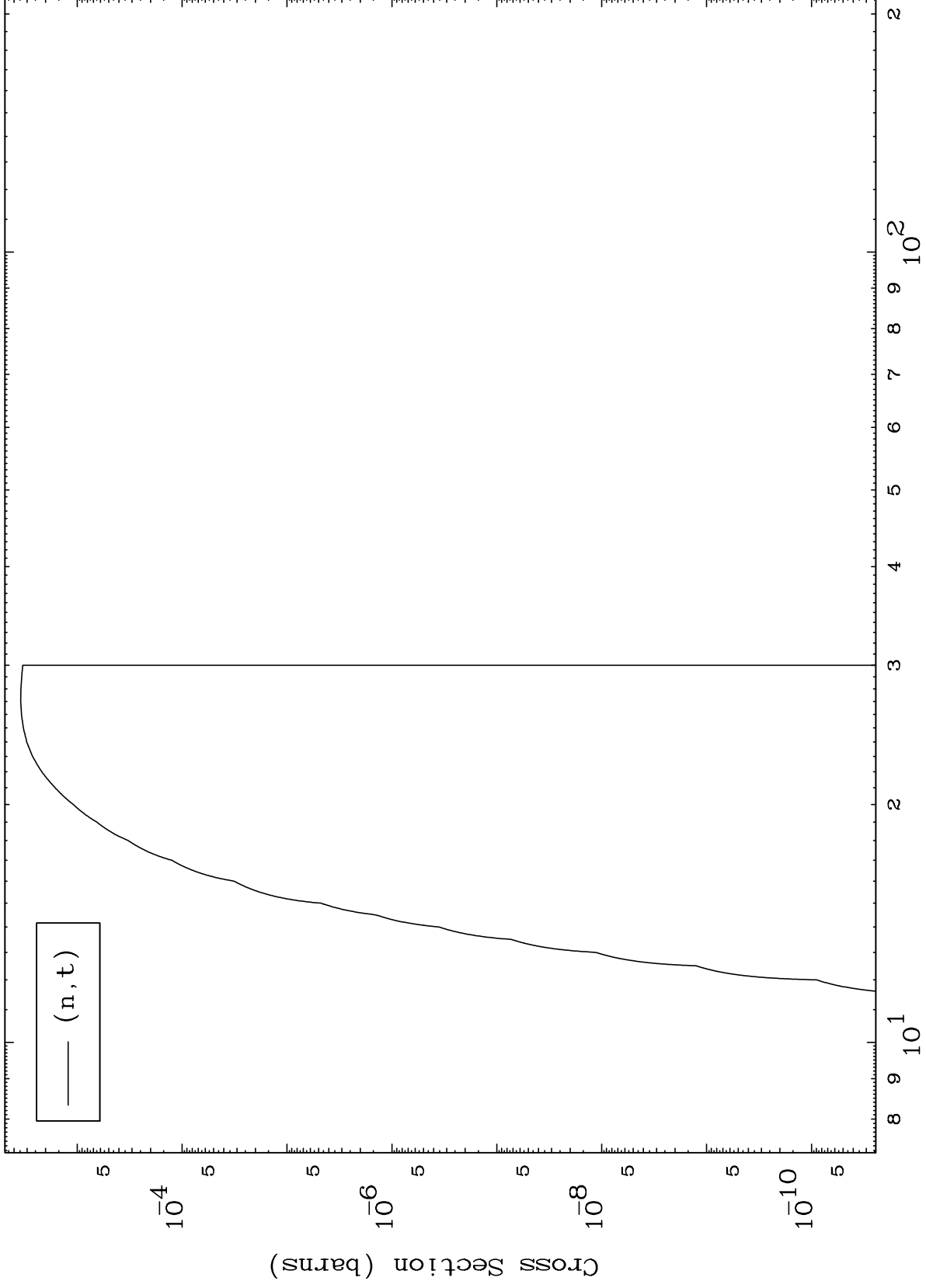
Incident Energy (MeV)

64-Gd-160

MAT 6449

(n,t) Levels  
293 Kelvin Cross Sections

64-Gd-160



13

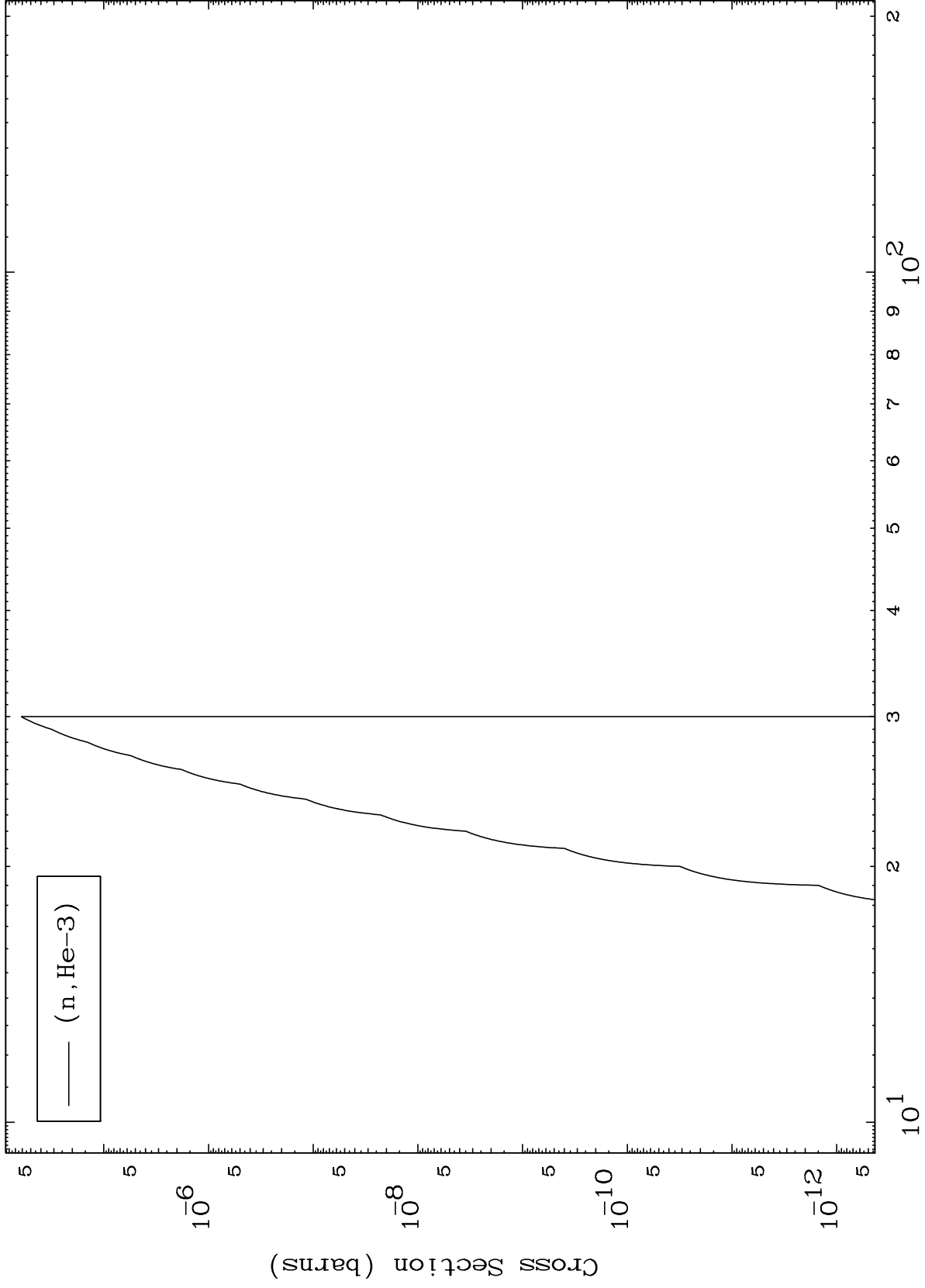
Incident Energy (MeV)

64-Gd-160

MAT 6449

(n,He3) Levels  
293 Kelvin Cross Sections

64-Gd-160



14

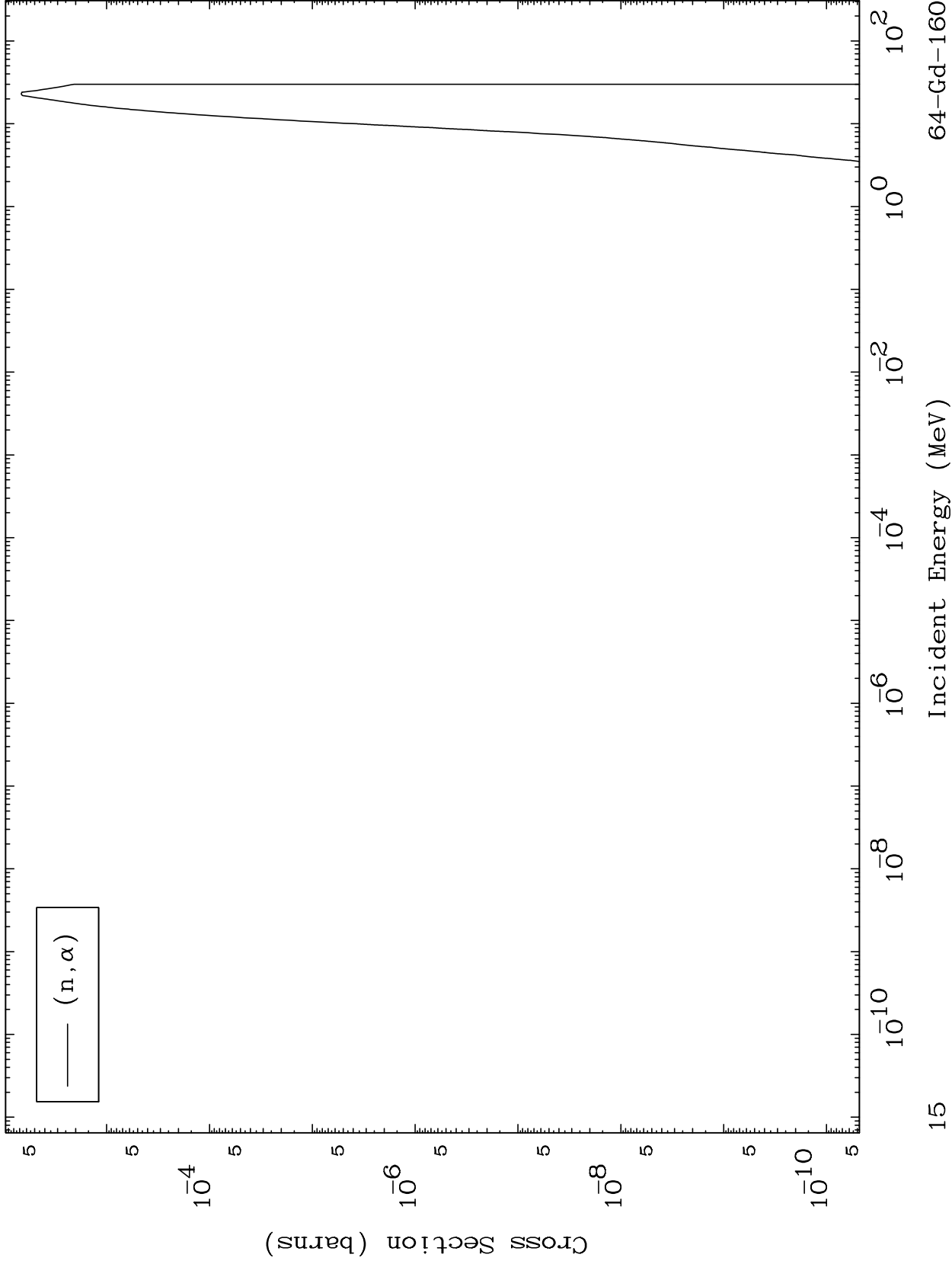
Incident Energy (MeV)

64-Gd-160

MAT 6449

(n,  $\alpha$ ) Levels  
293 Kelvin Cross Sections

64-Gd-160



15

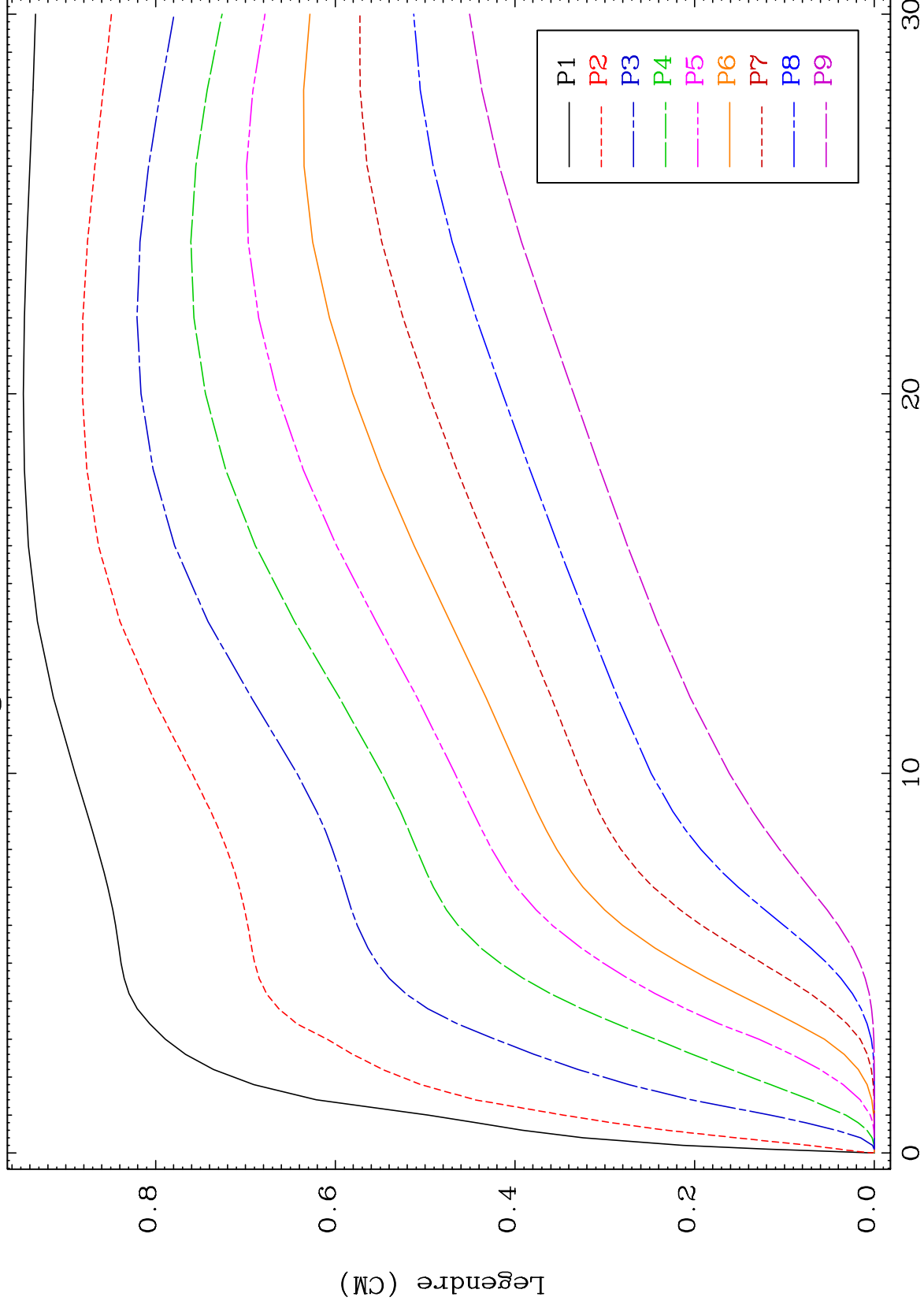
Incident Energy (MeV)

64-Gd-160

MAT 6449

Elastic Legendre Coefficients

64-Gd-160



16

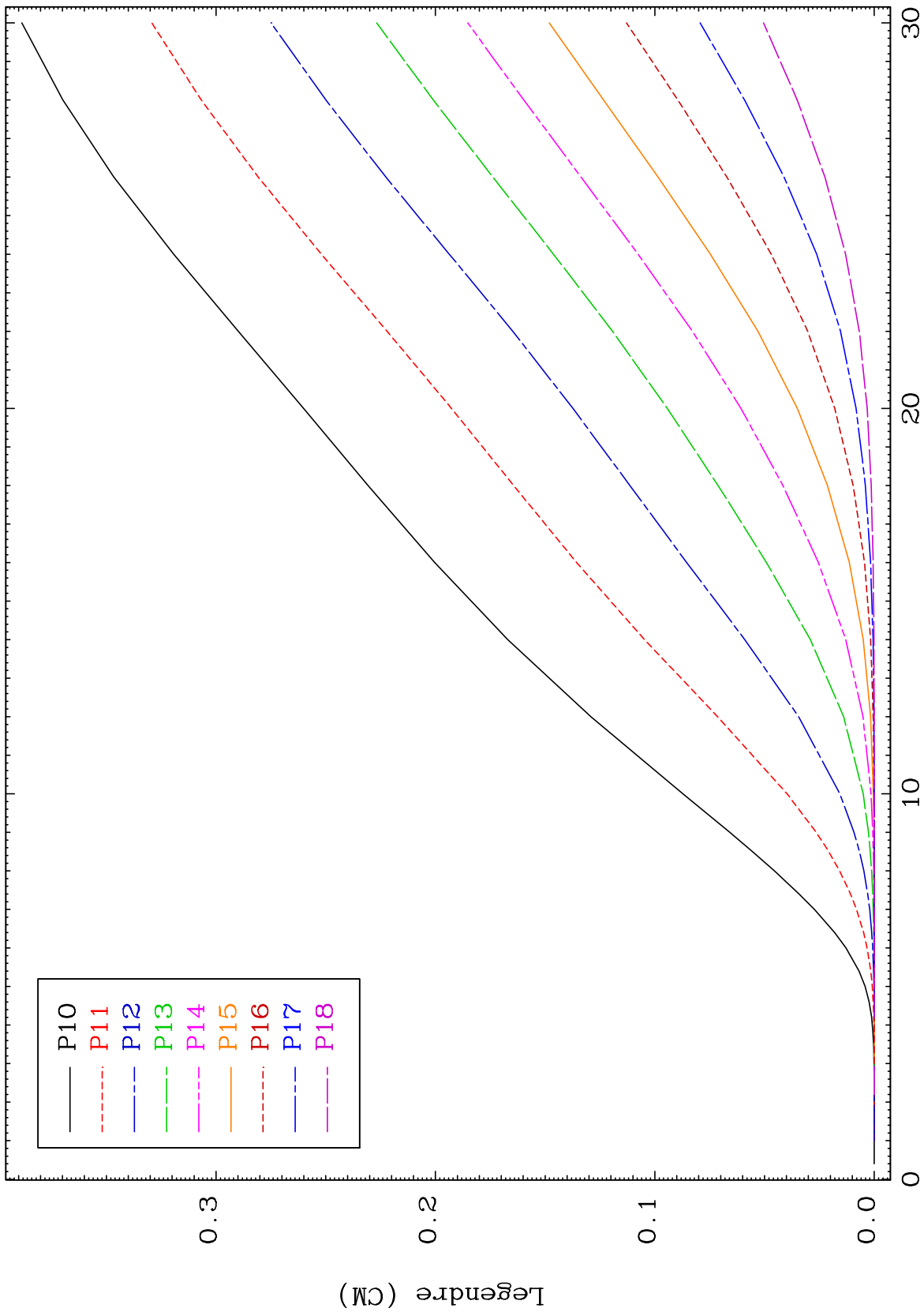
Incident Energy (MeV)

64-Gd-160

MAT 6449

Elastic Legendre Coefficients

64-Gd-160



17

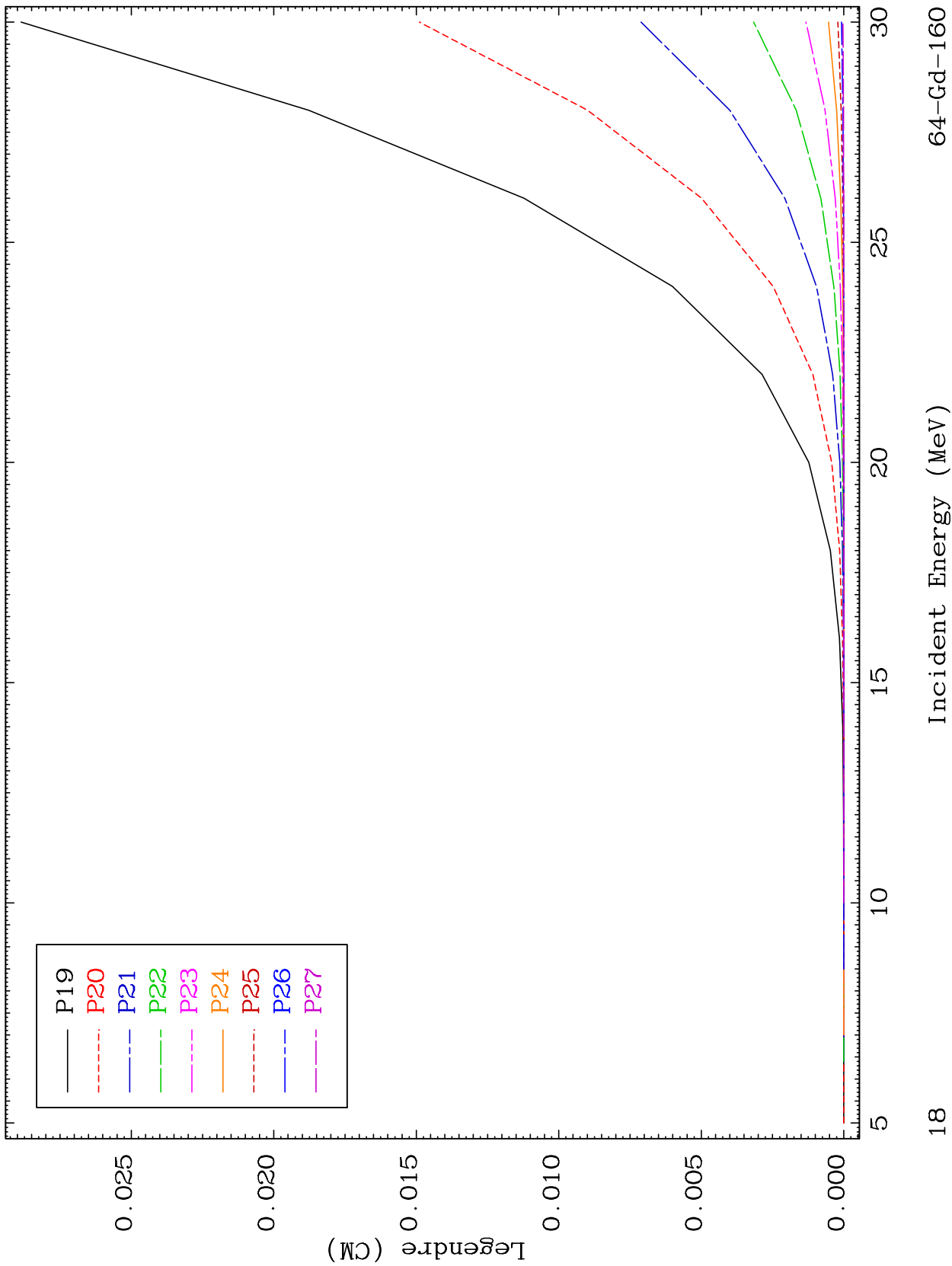
Incident Energy (MeV)

64-Gd-160

MAT 6449

### Elastic Legendre Coefficients

64-Gd-160



18

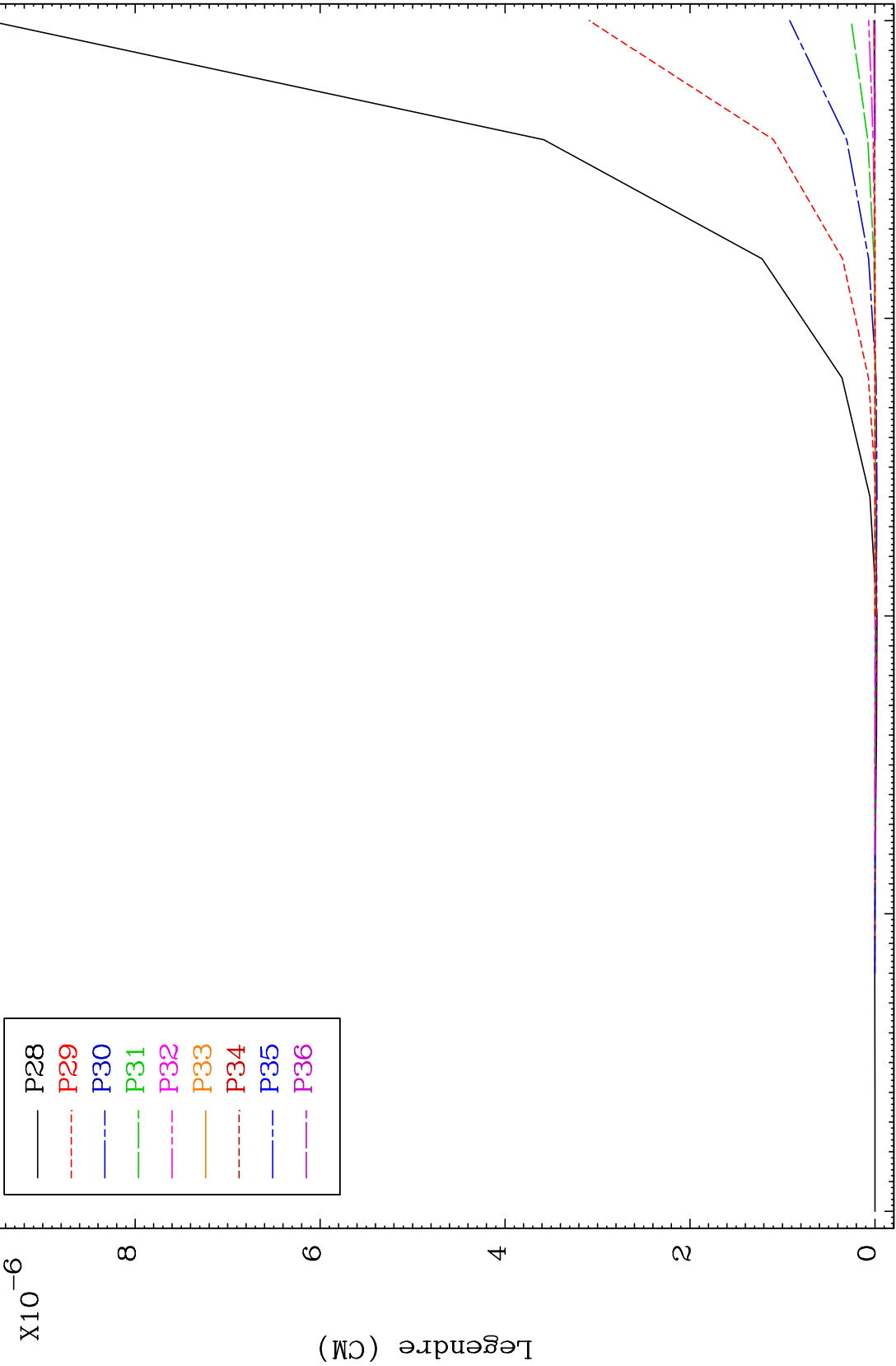
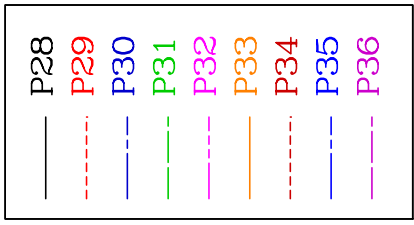
Incident Energy (MeV)

64-Gd-160

MAT 6449

Elastic Legendre Coefficients

64-Gd-160



19

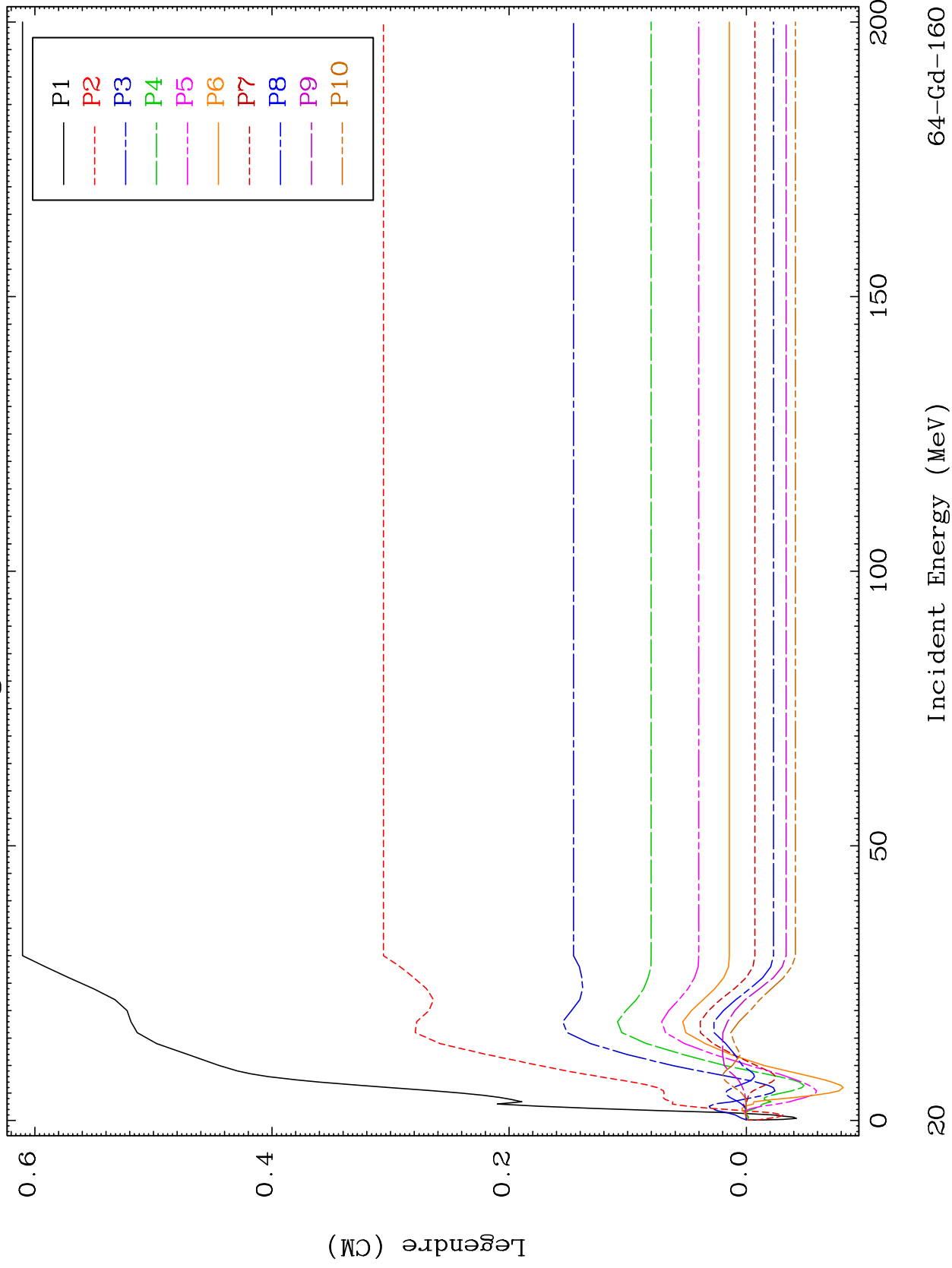
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

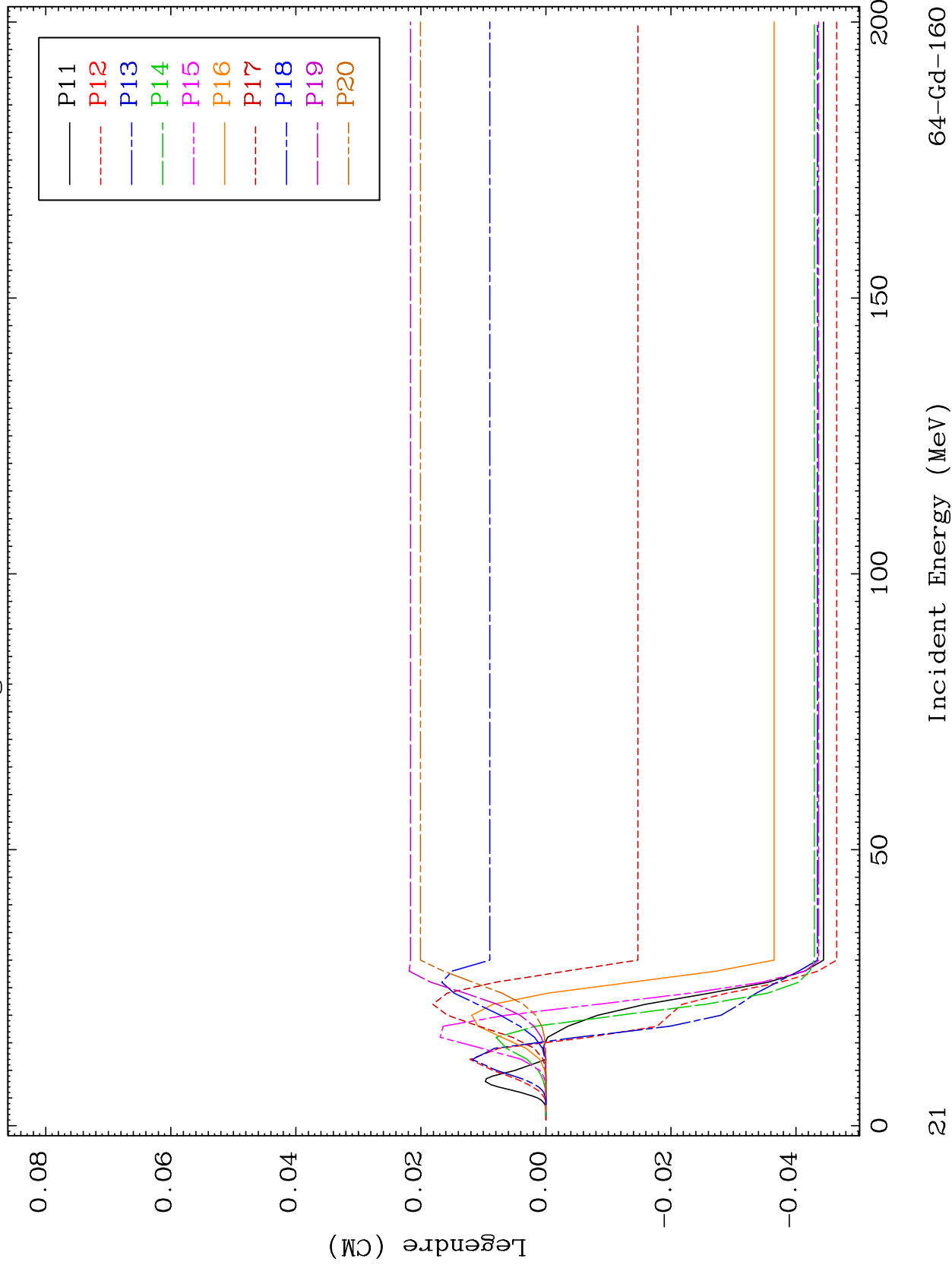
64-Gd-160



MAT 6449

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

64-Gd-160



21

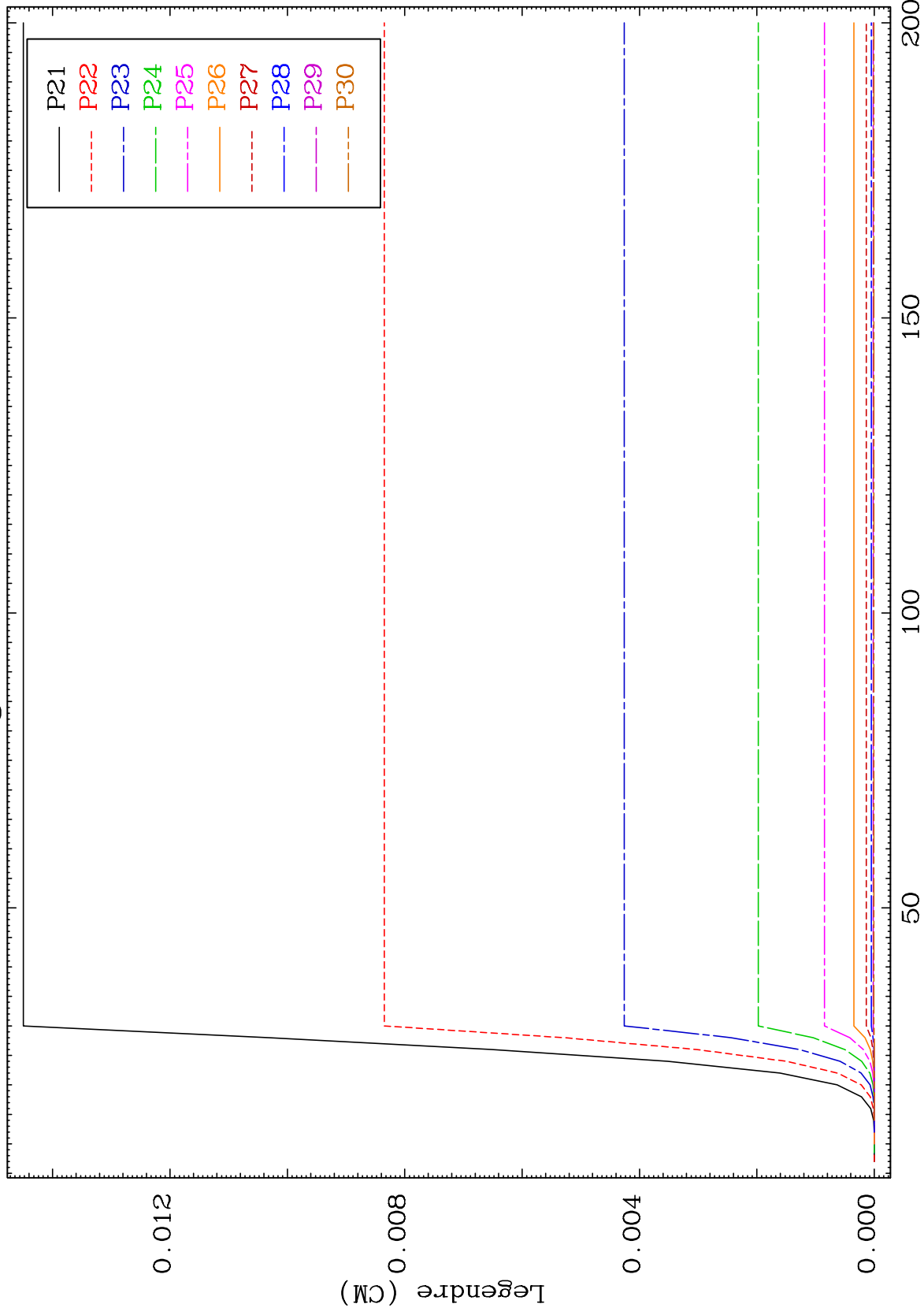
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160



22

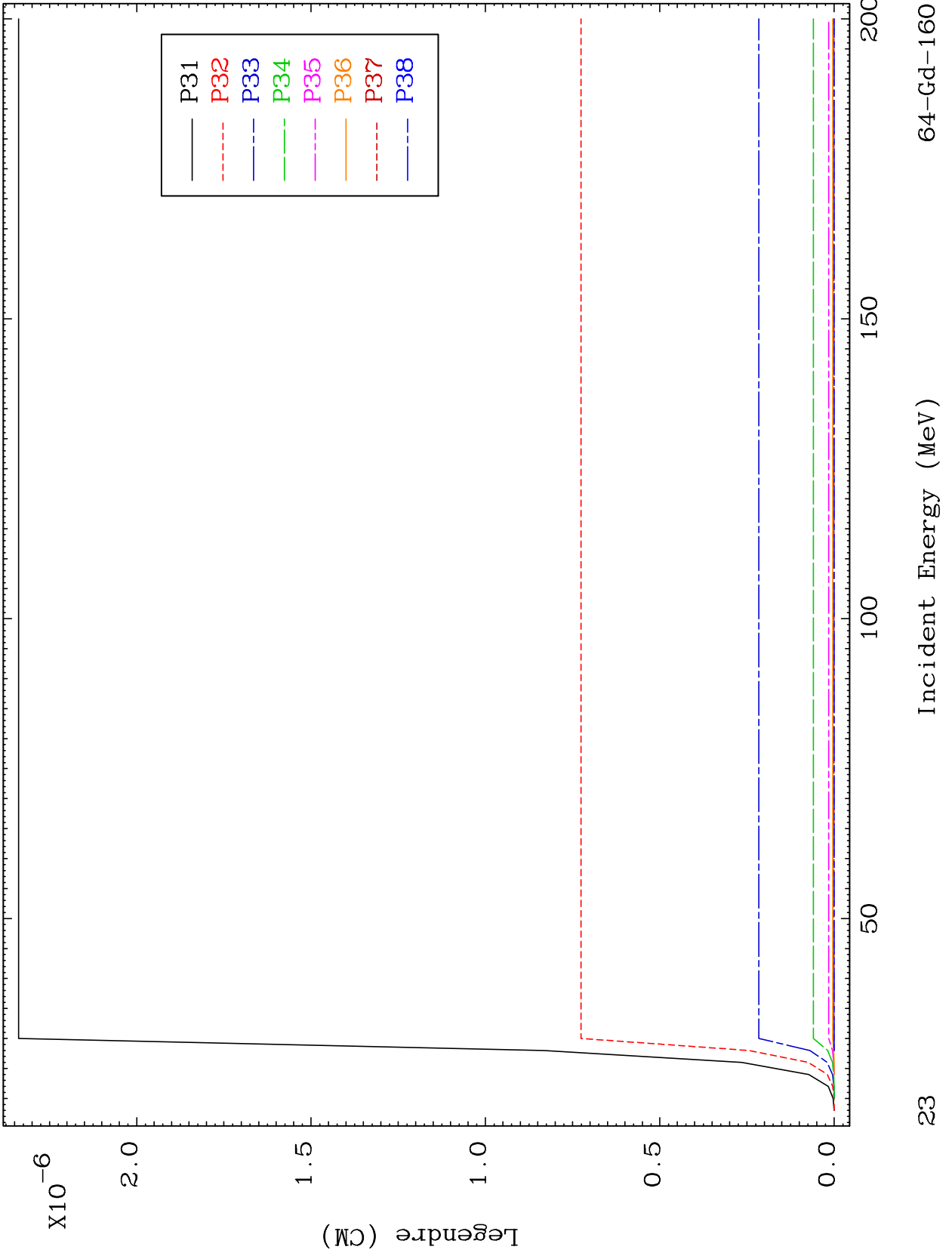
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160

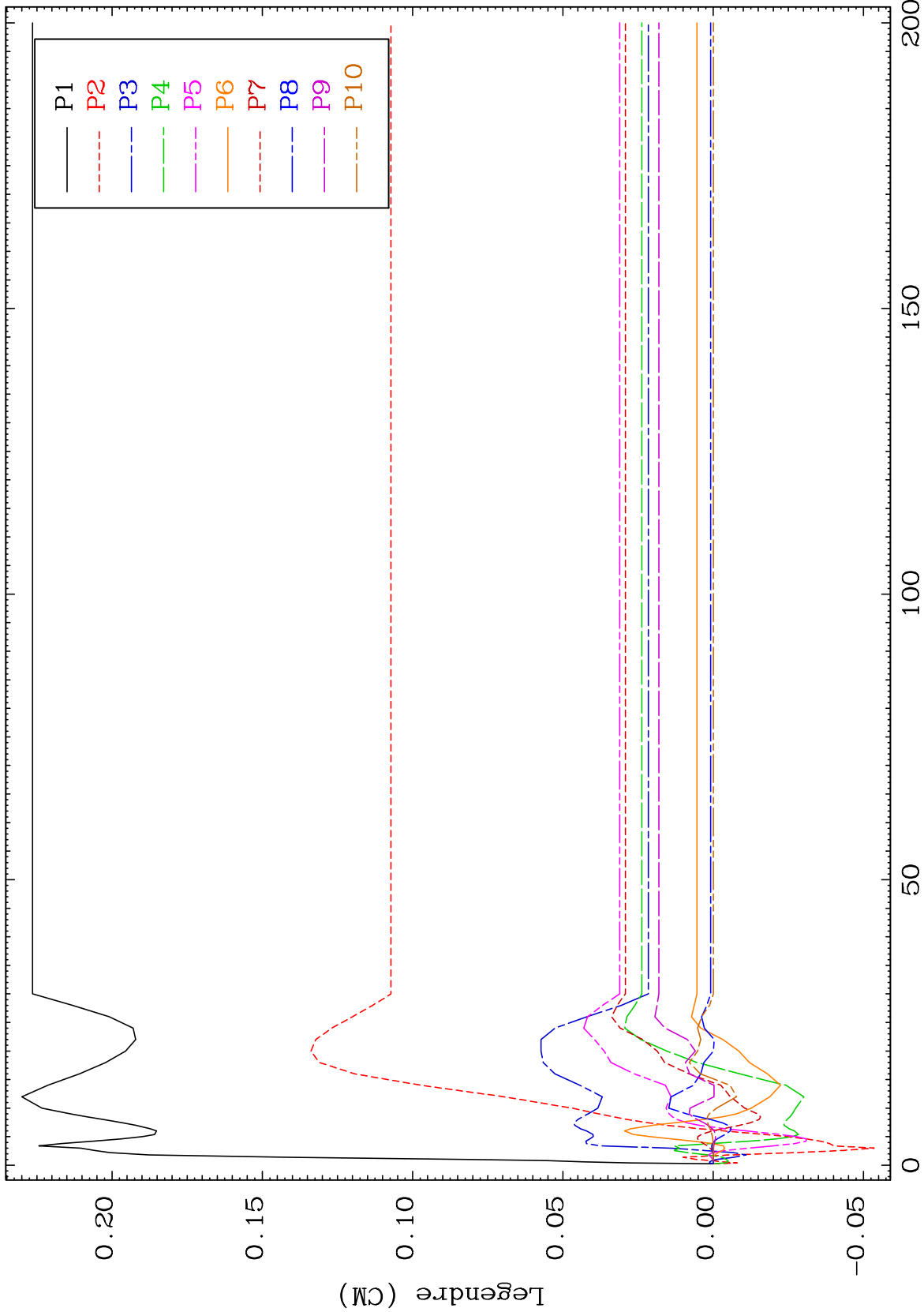


23

MAT 6449

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

64-Gd-160



24

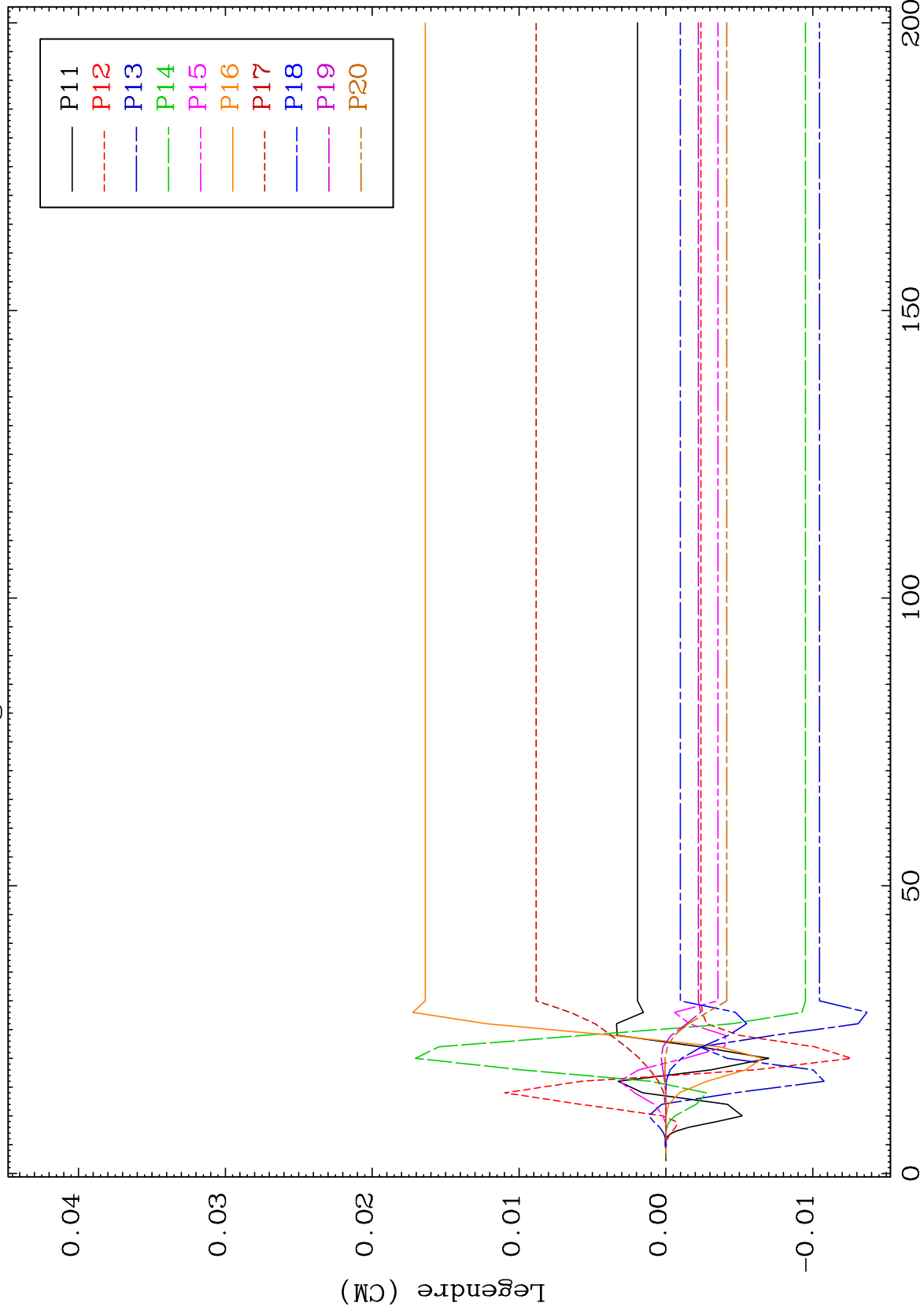
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160



64-Gd-160

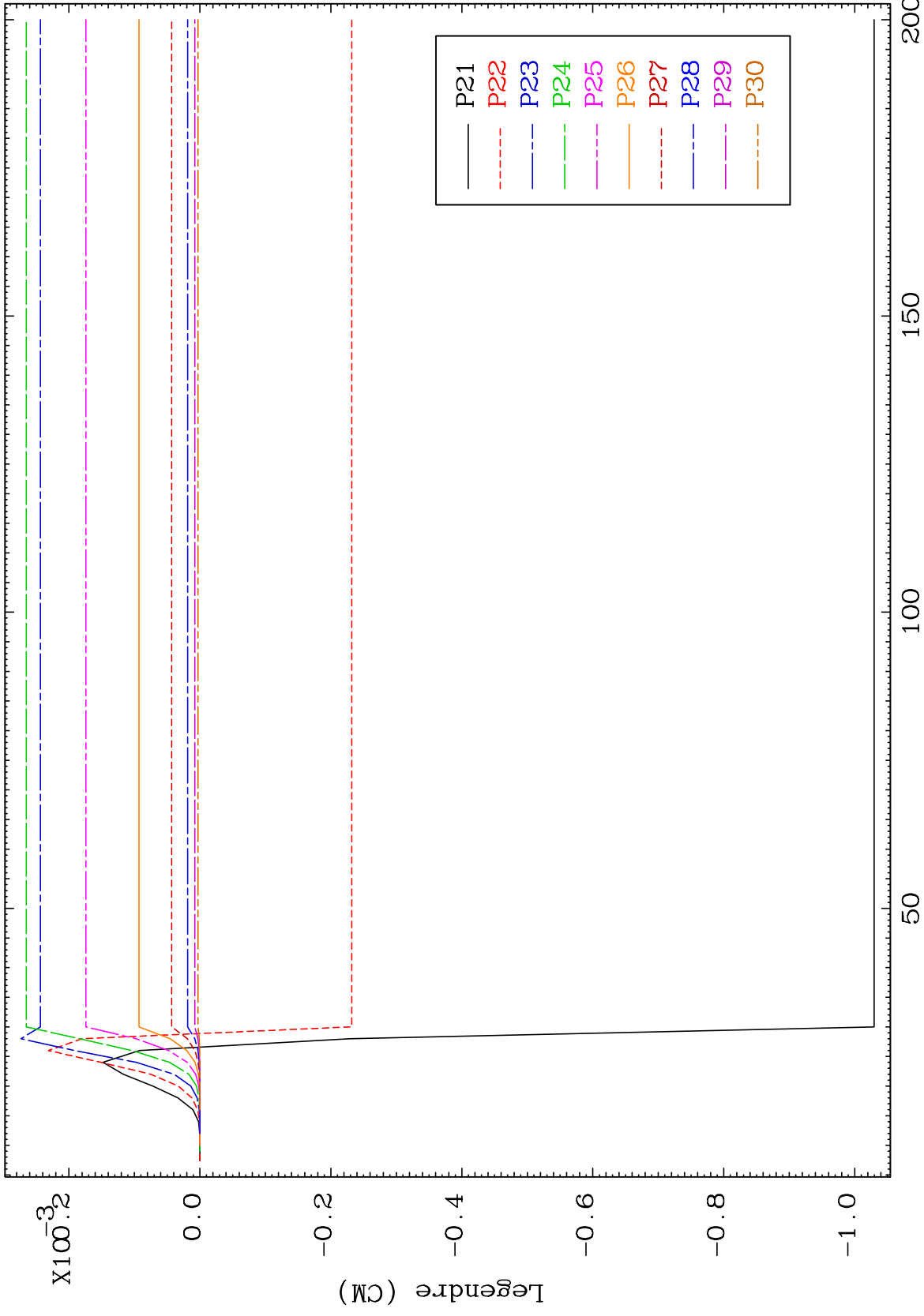
Incident Energy (MeV)

25

MAT 6449

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

64-Gd-160



26

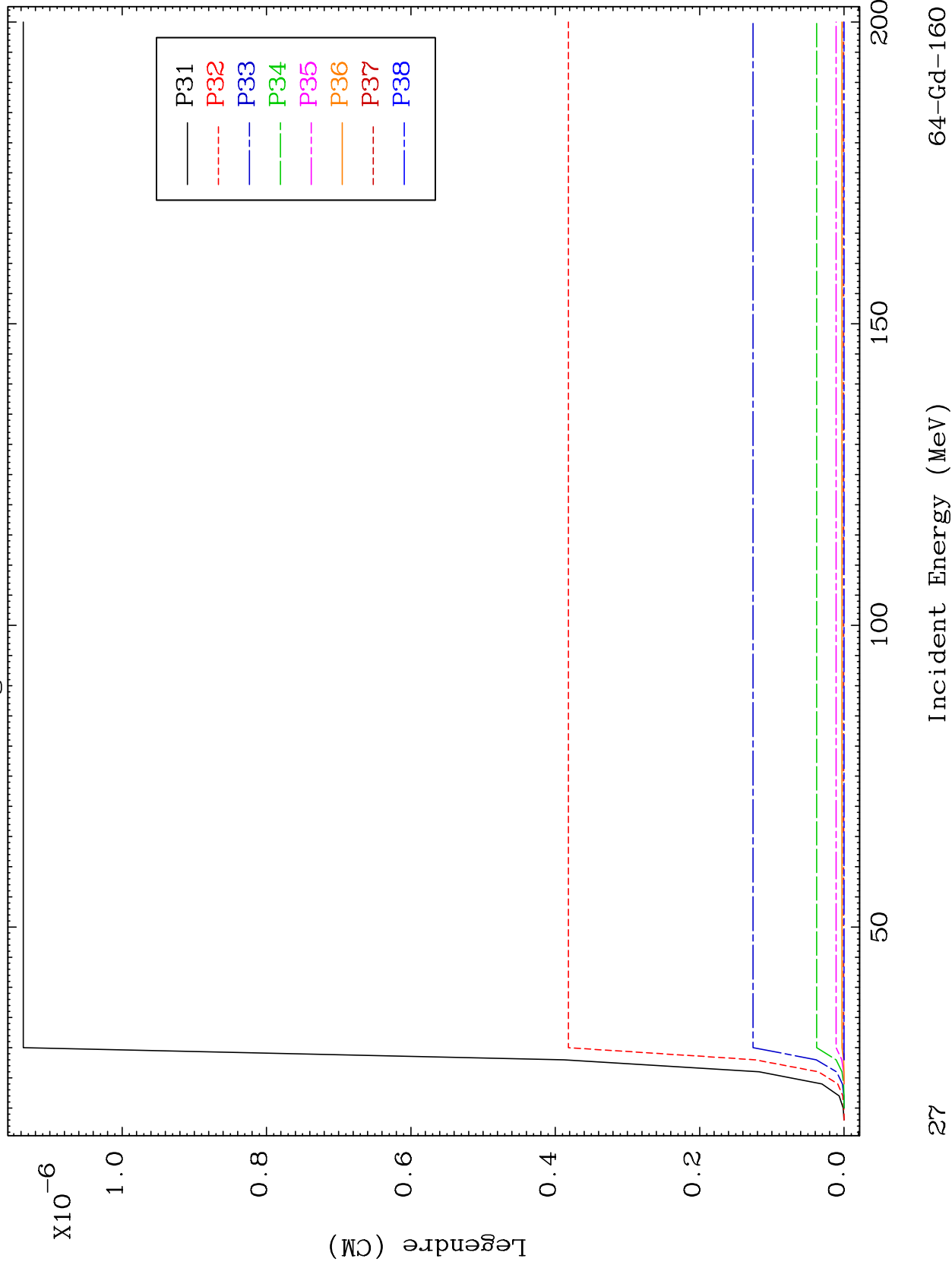
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160



27

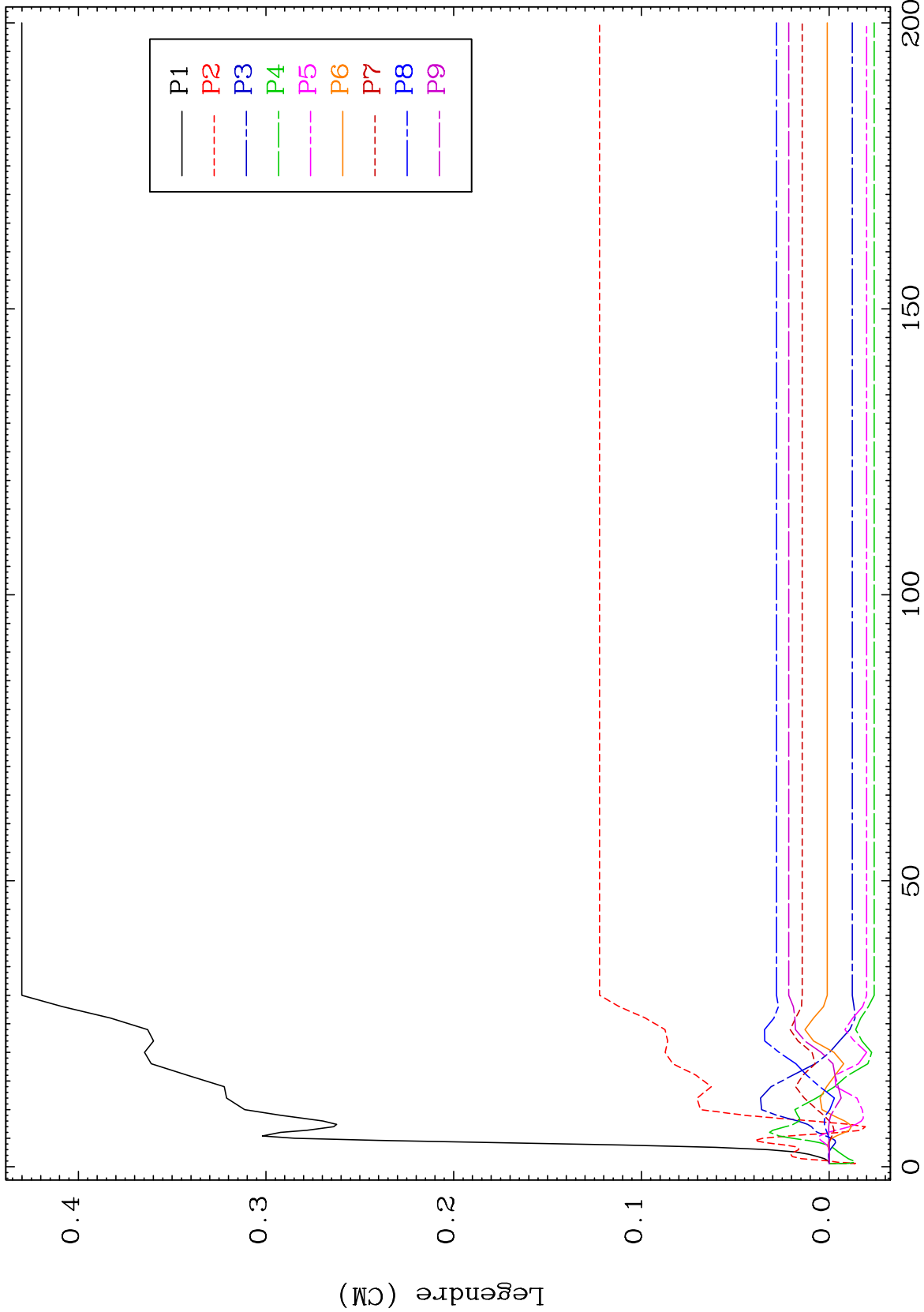
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160



28

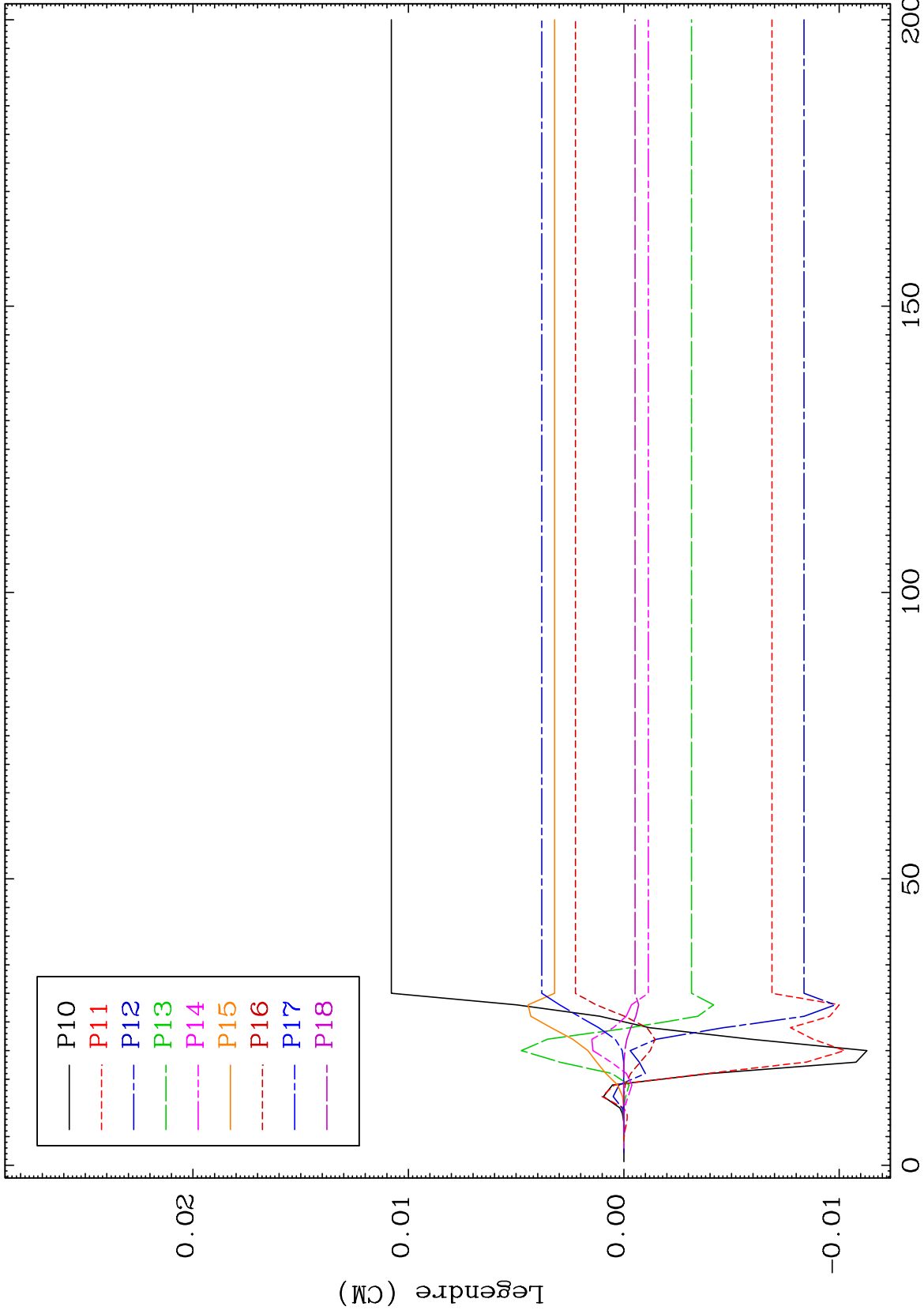
Incident Energy (MeV)

64-Gd-160

MAT 6449

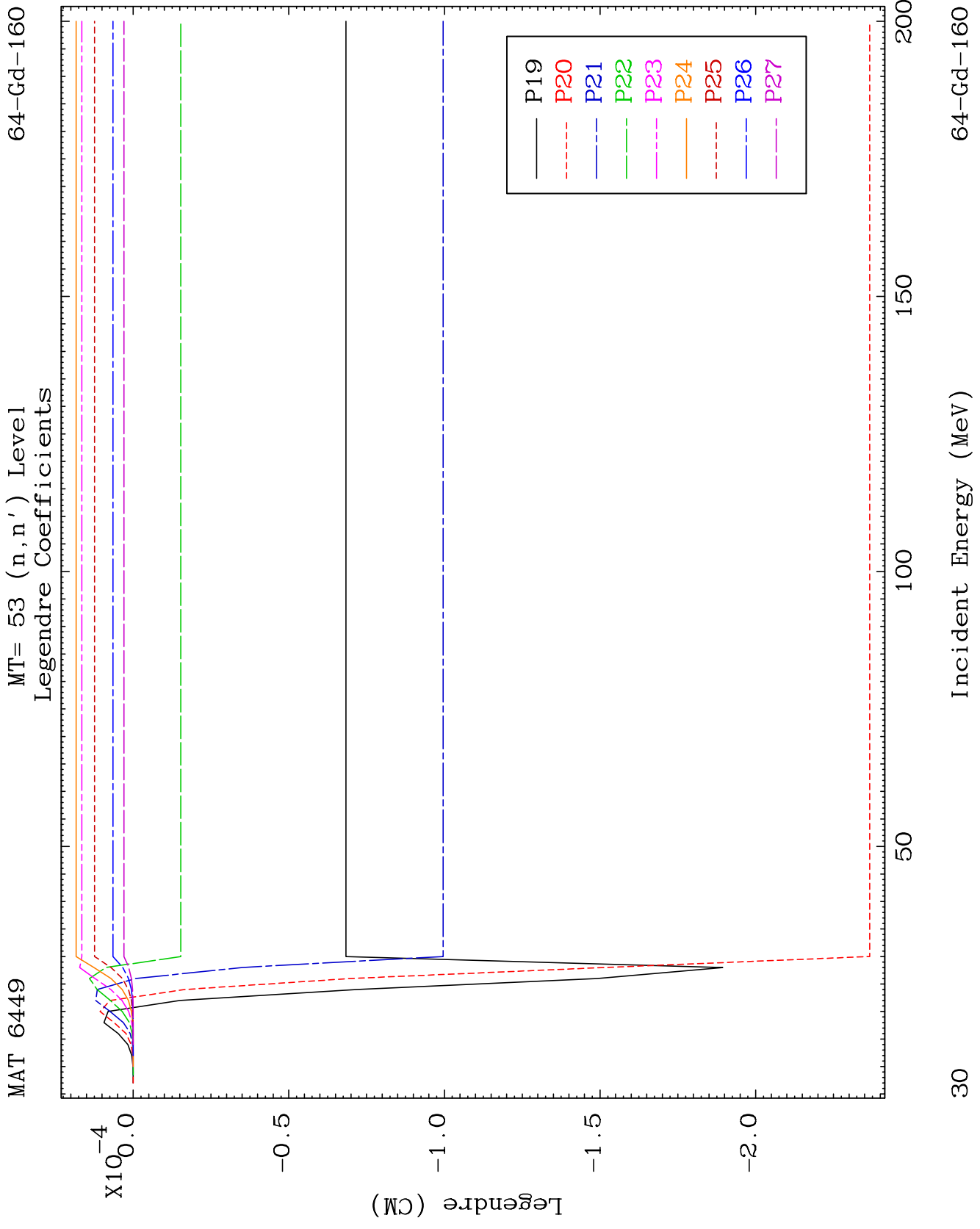
MT= 53 (n,n') Level  
Legendre Coefficients

64-Gd-160



29

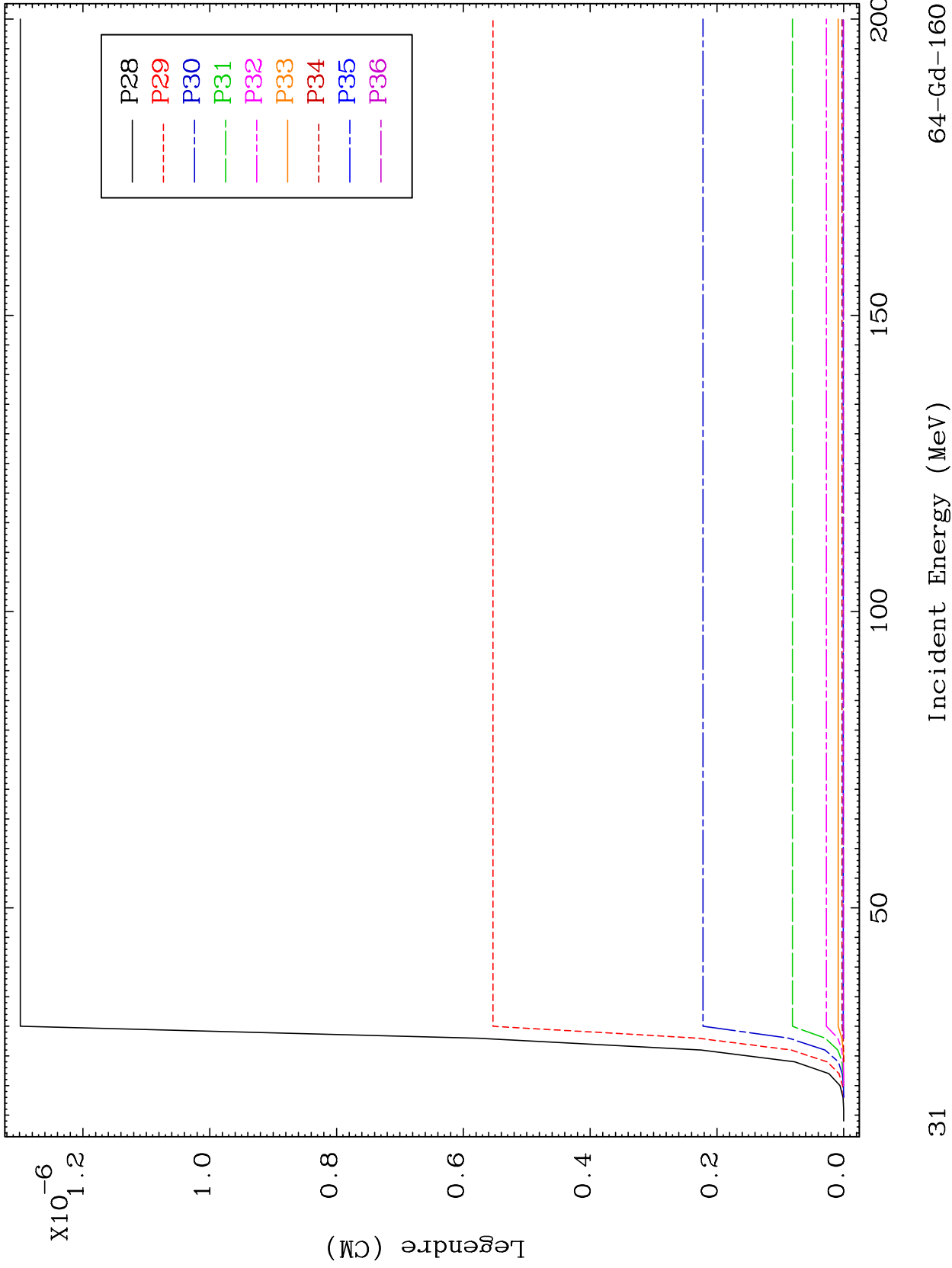
64-Gd-160



MAT 6449

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

64-Gd-160



31

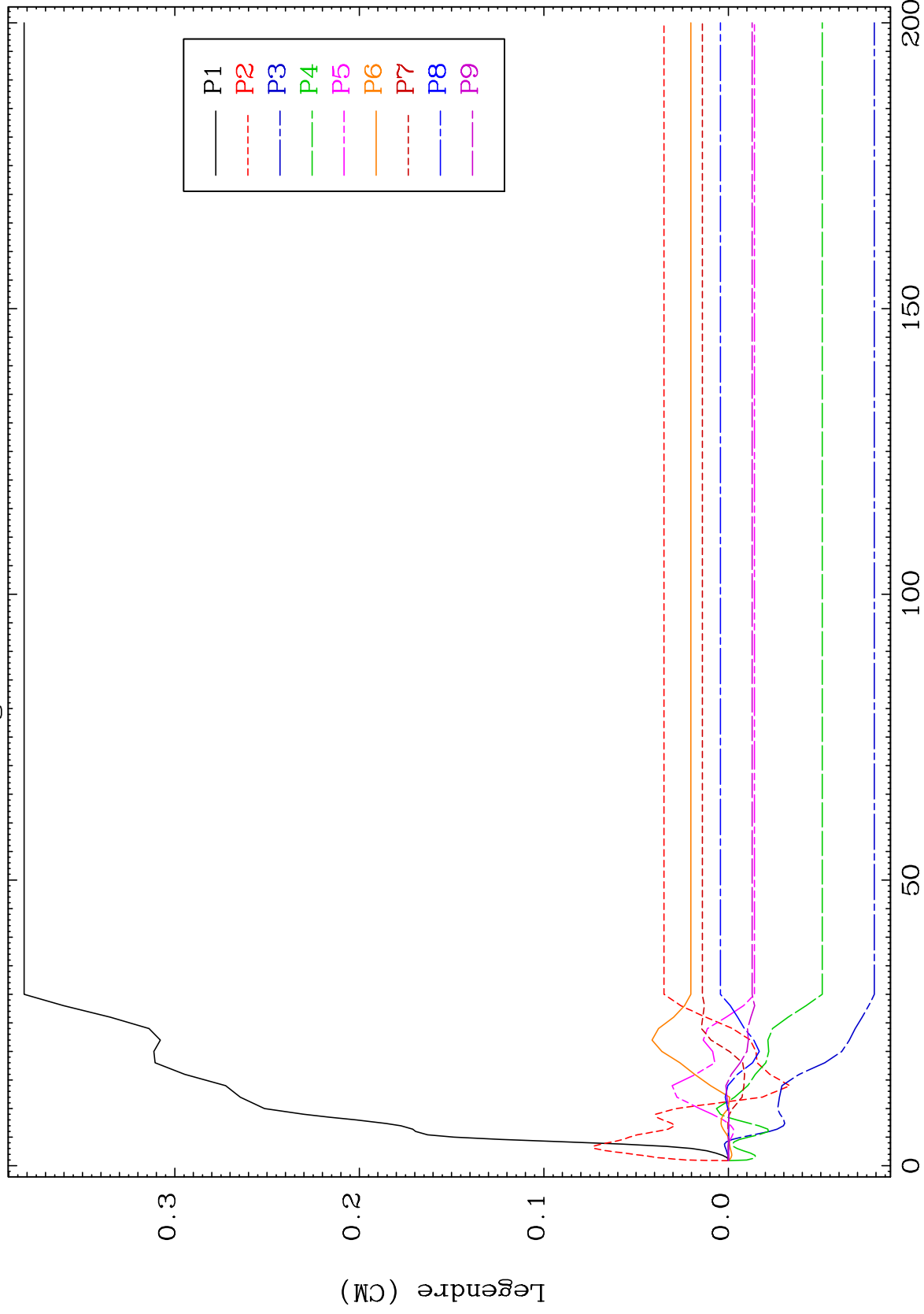
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

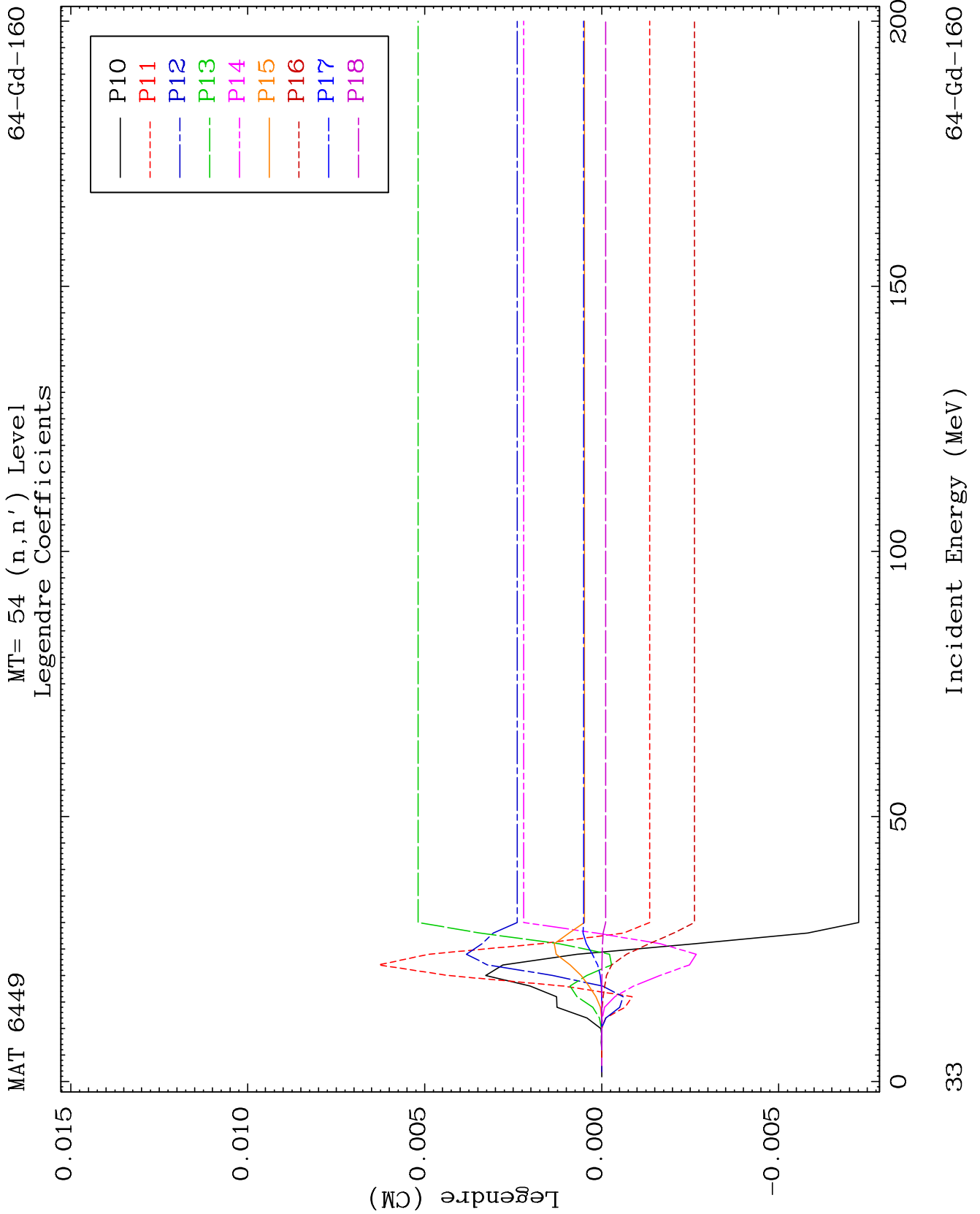
64-Gd-160



32

Incident Energy (MeV)

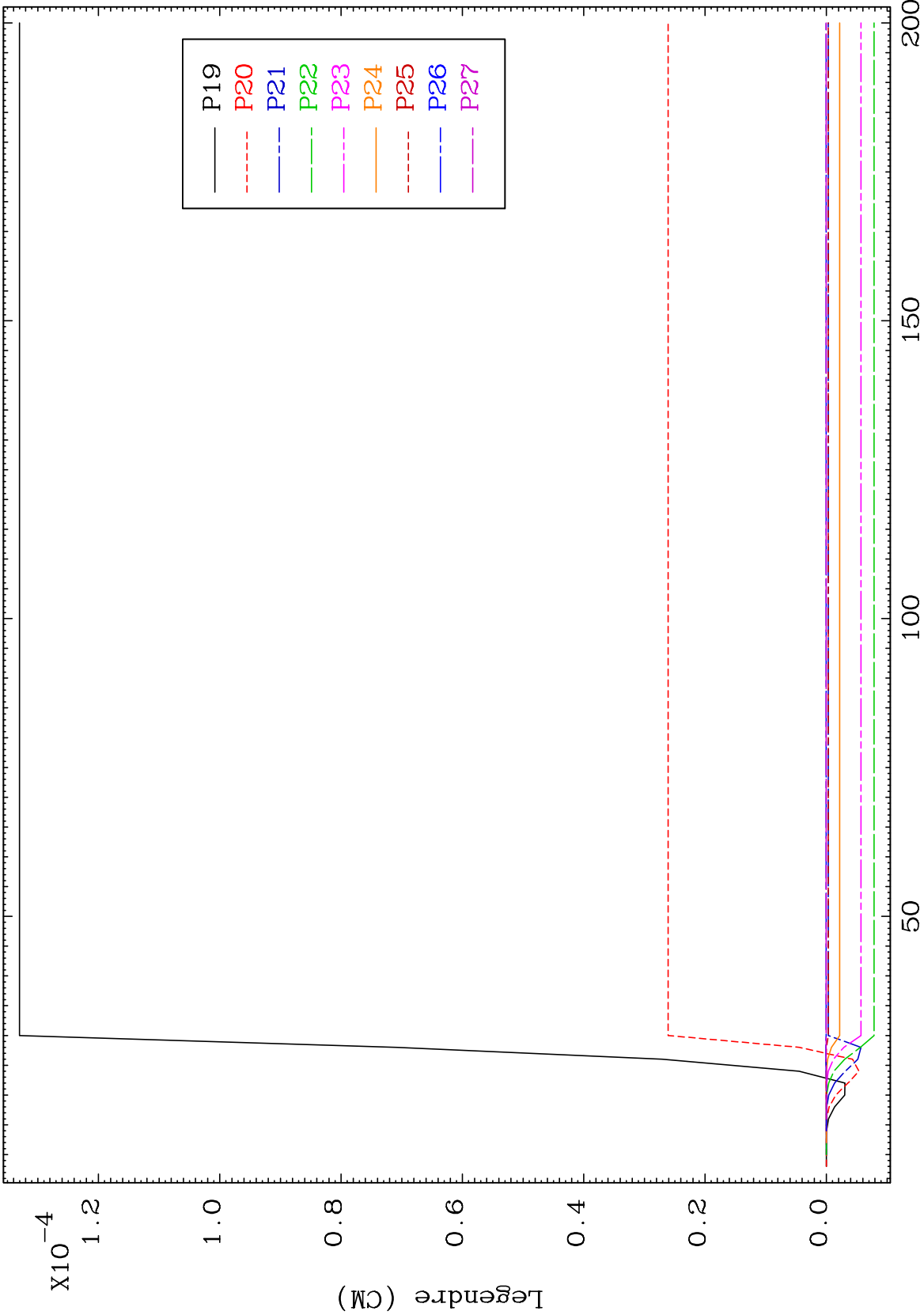
64-Gd-160



MAT 6449

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

64-Gd-160



34

Incident Energy (MeV)

64-Gd-160

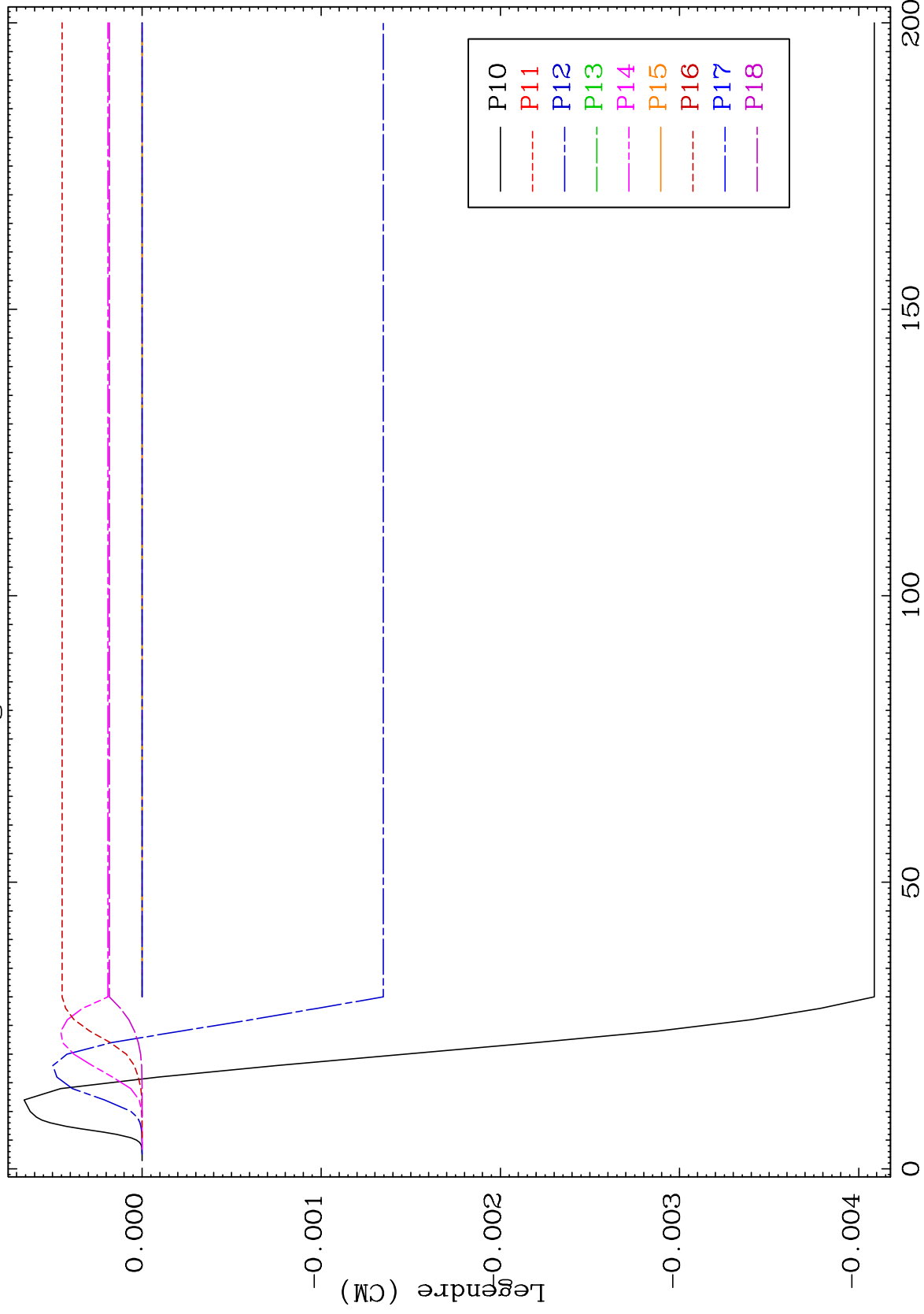




MAT 6449

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

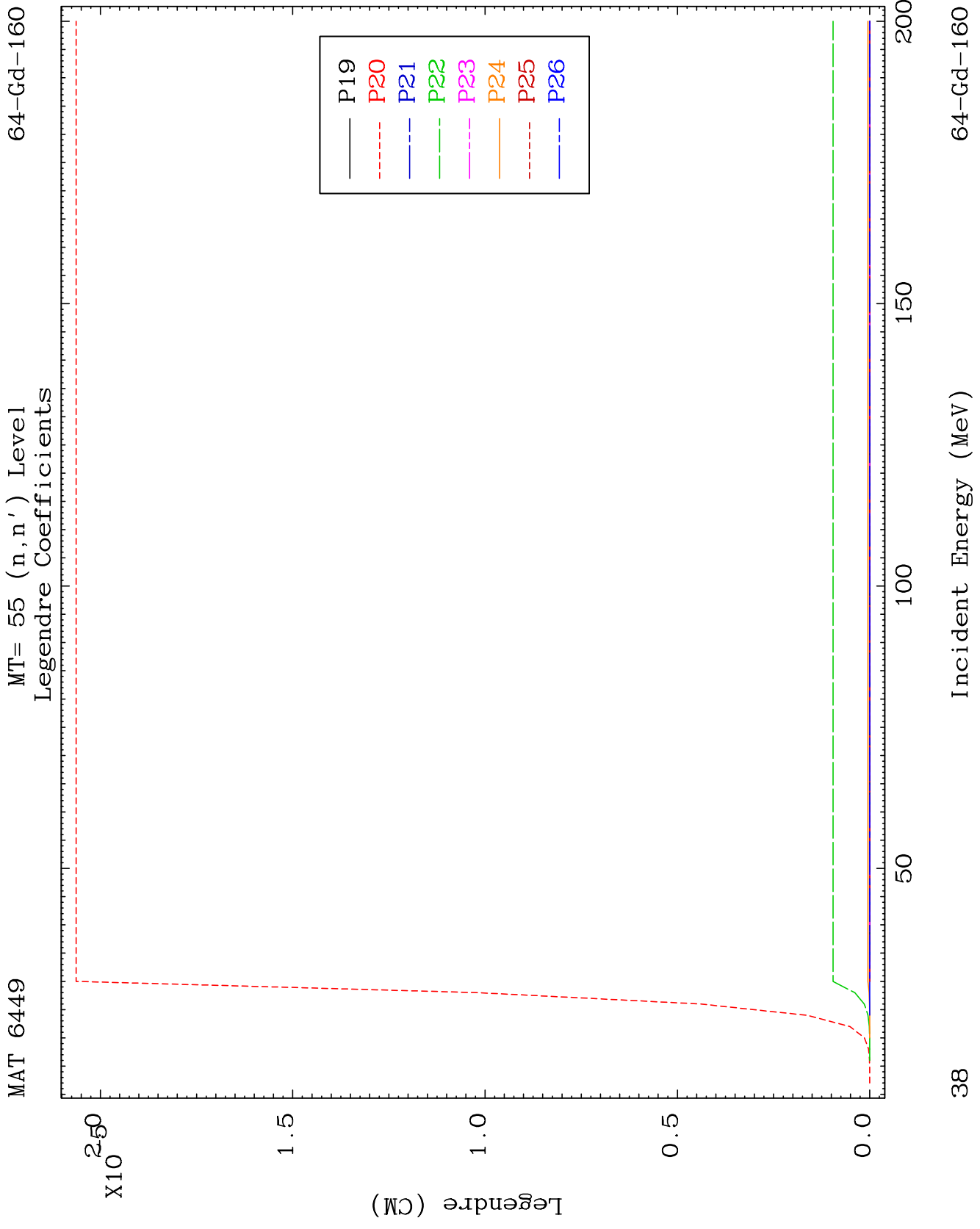
64-Gd-160



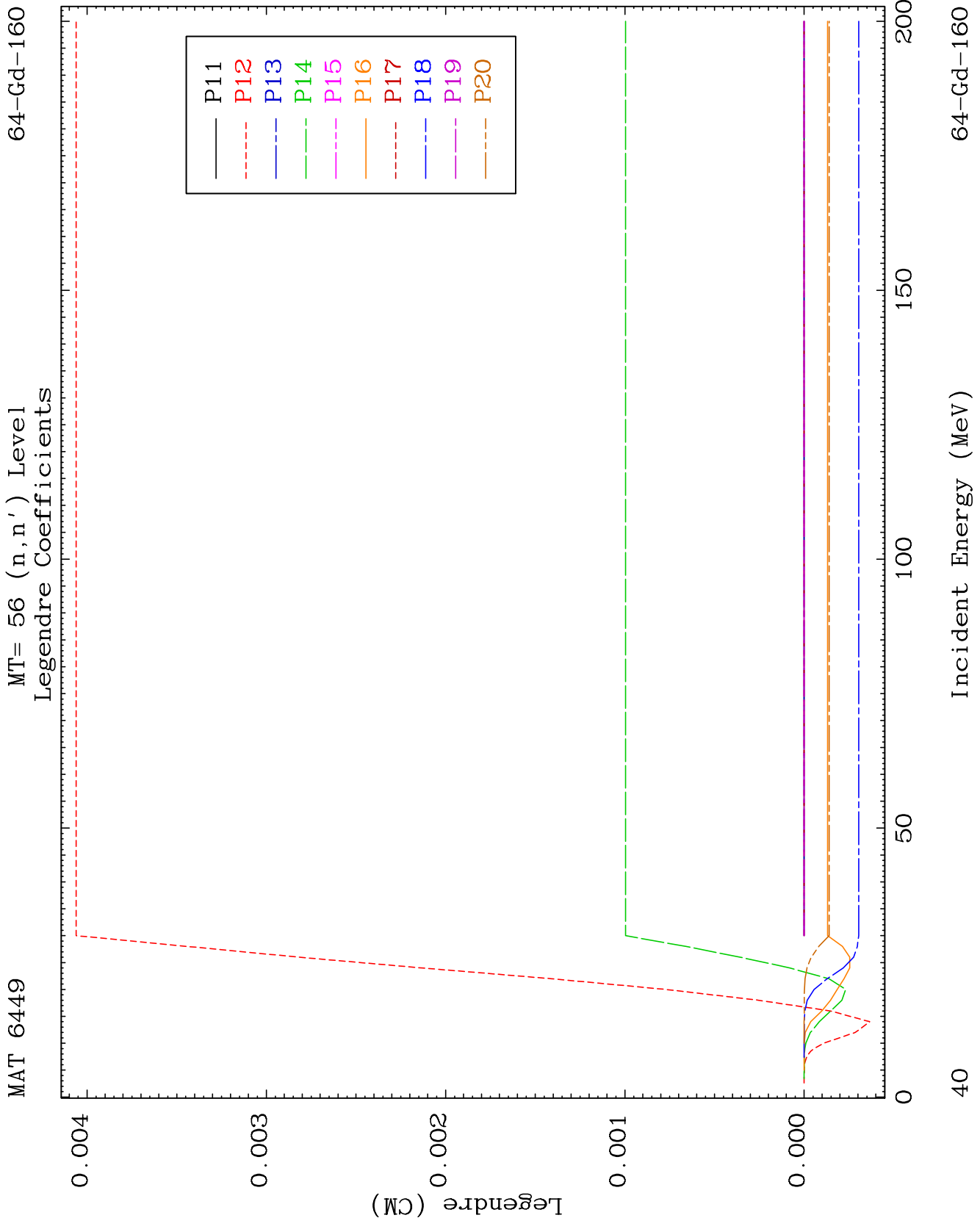
37

Incident Energy (MeV)

64-Gd-160



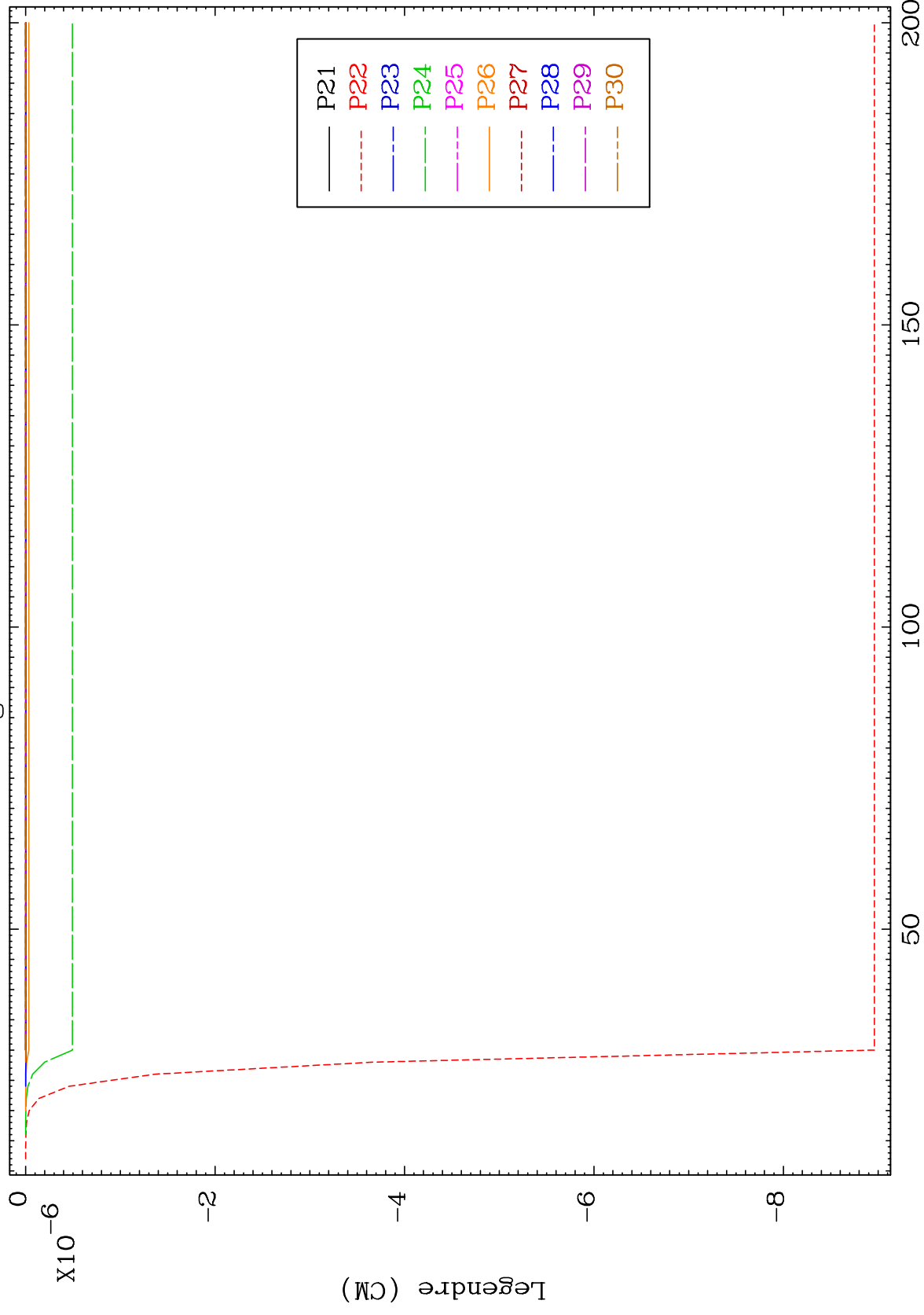




MAT 6449

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

64-Gd-160



41

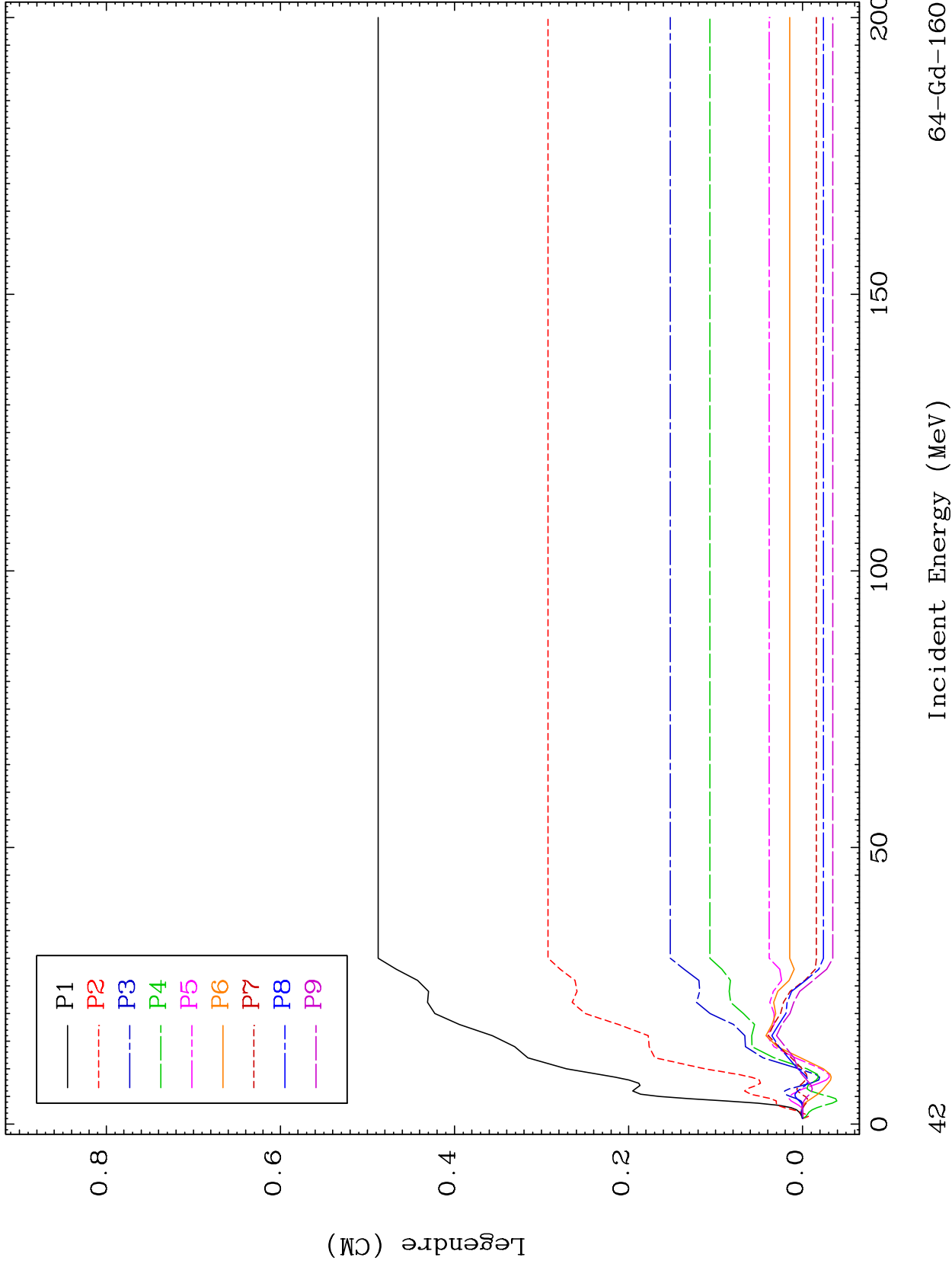
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160



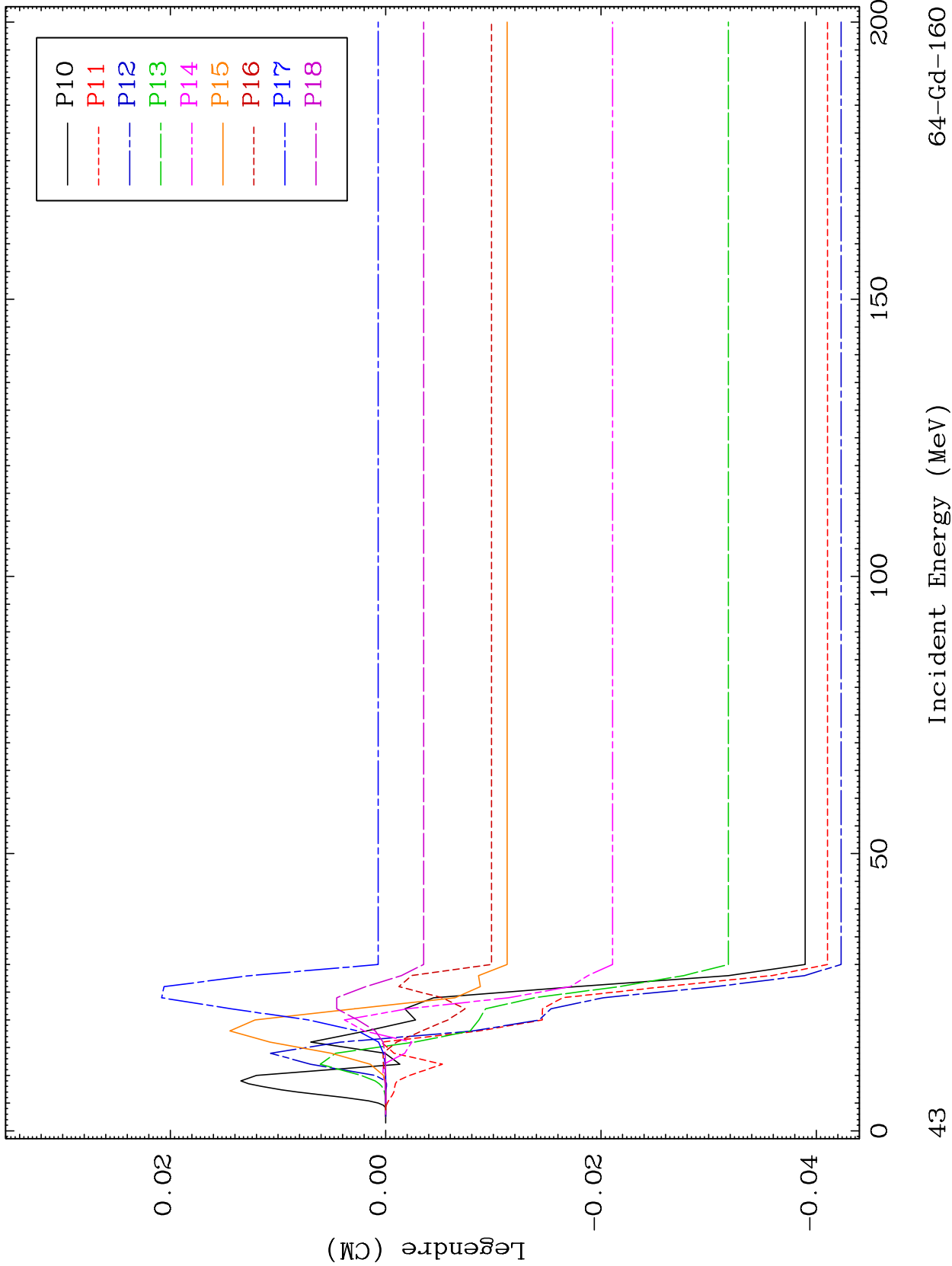
42

64-Gd-160

MAT 6449

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

64-Gd-160



43

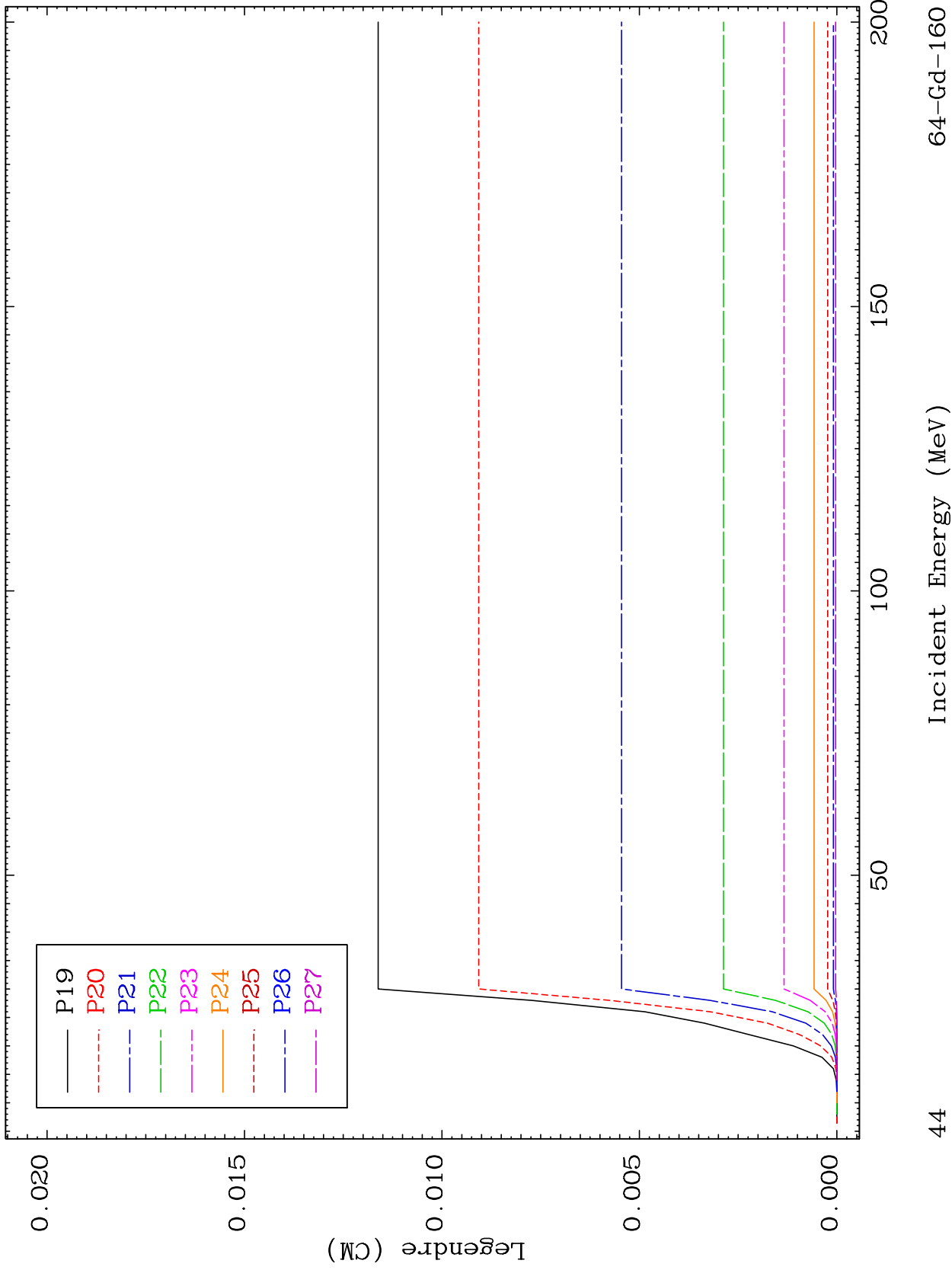
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160

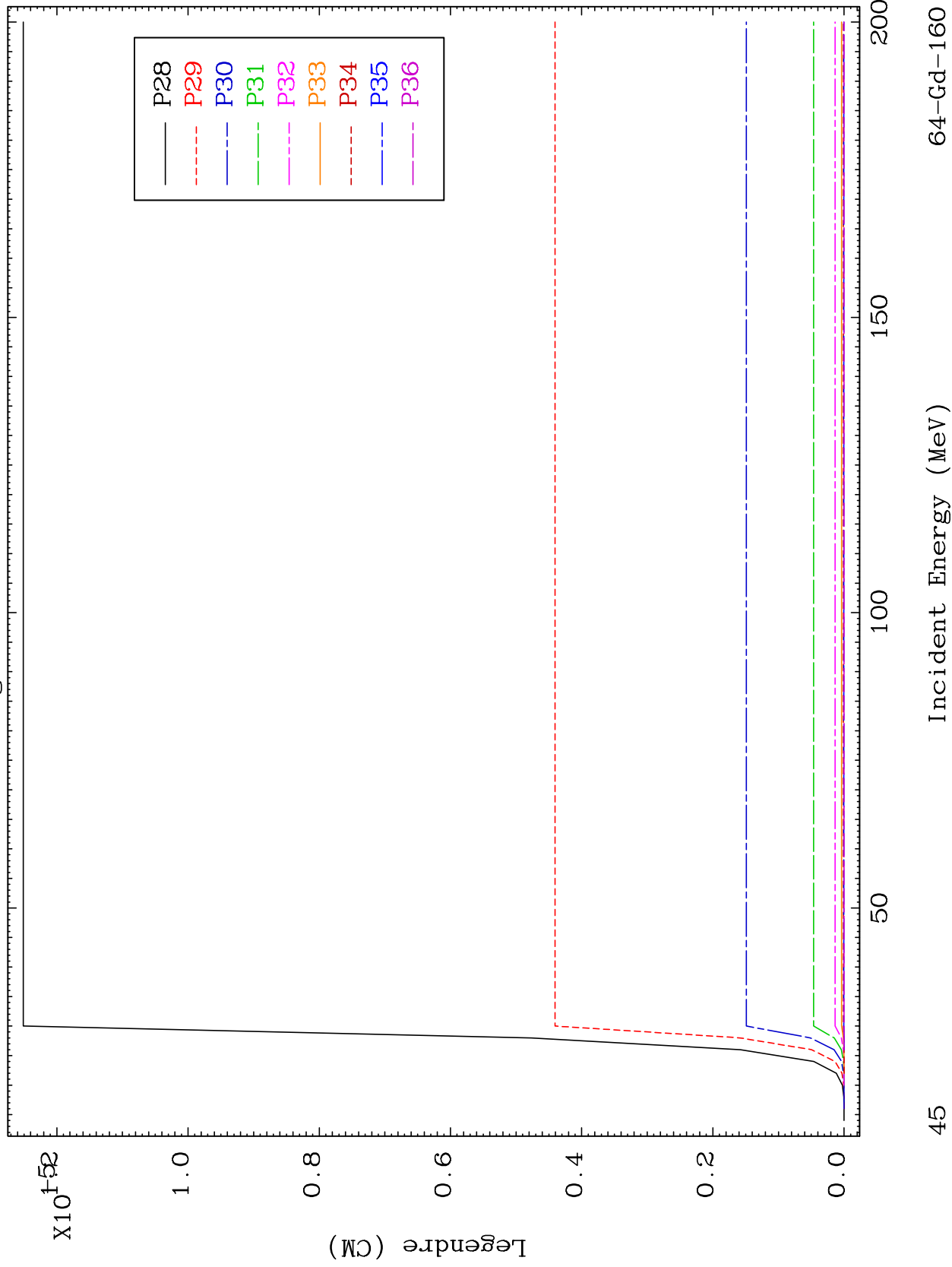


44

MAT 6449

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

64-Gd-160



45

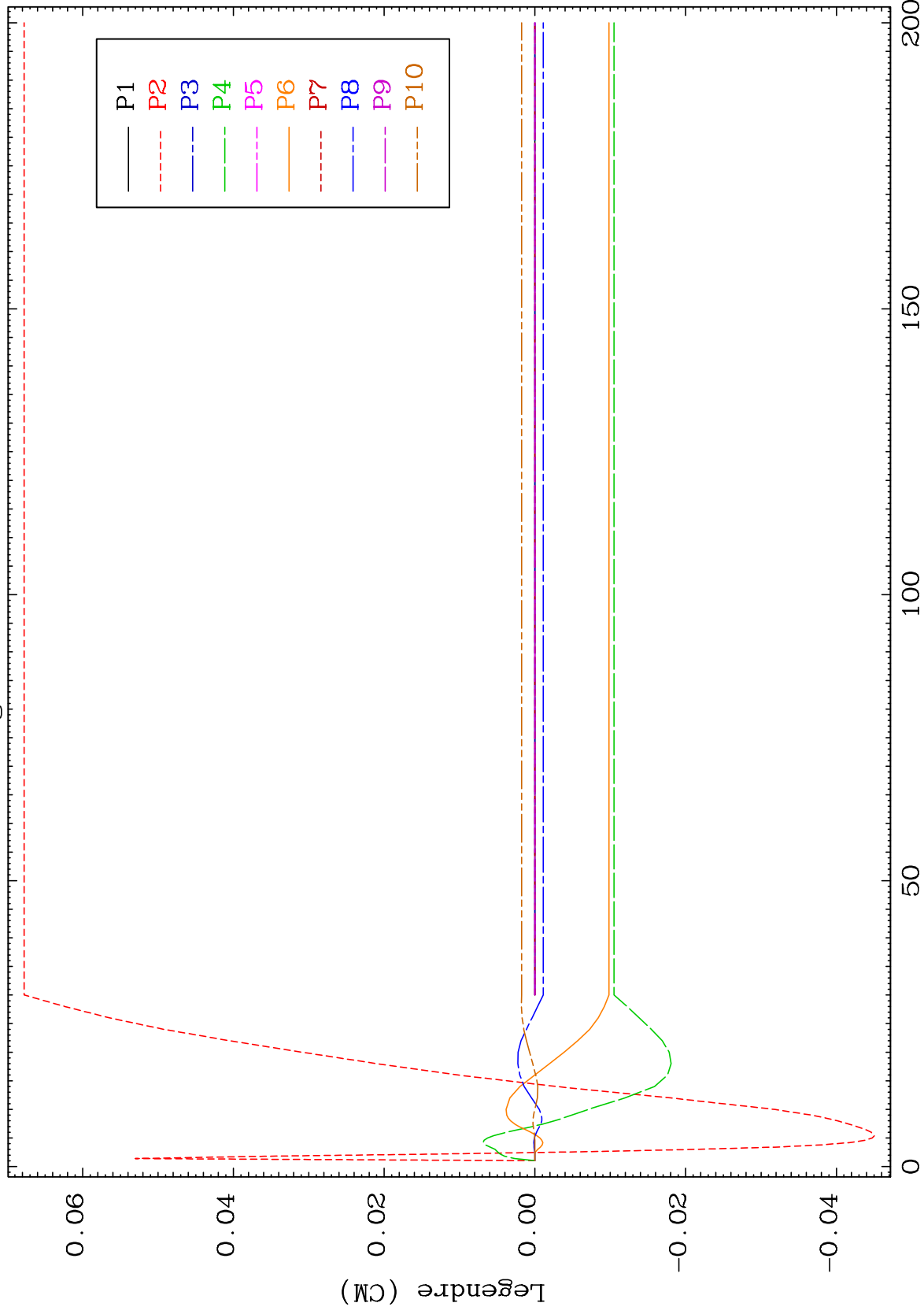
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160



46

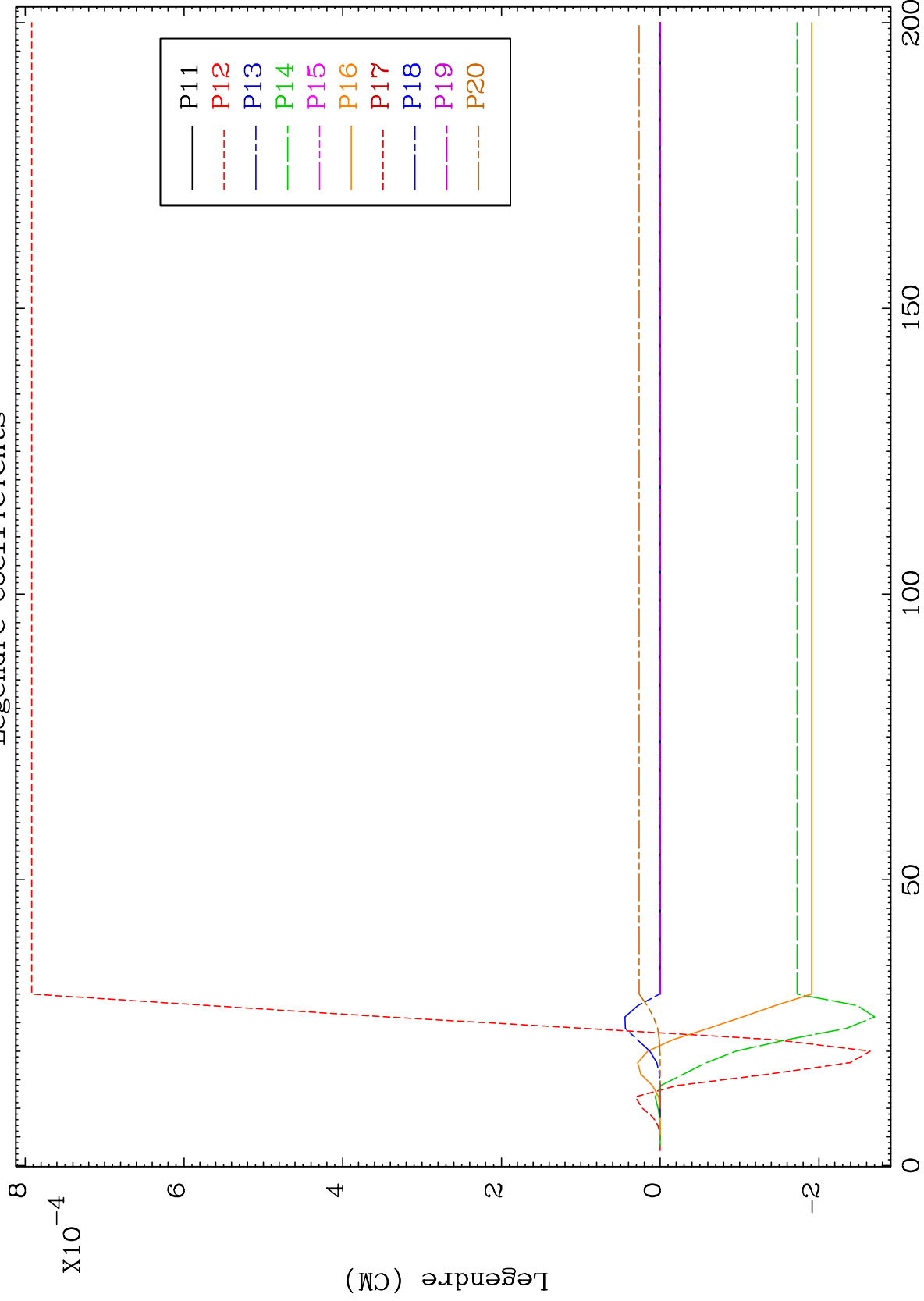
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160



47

Incident Energy (MeV)

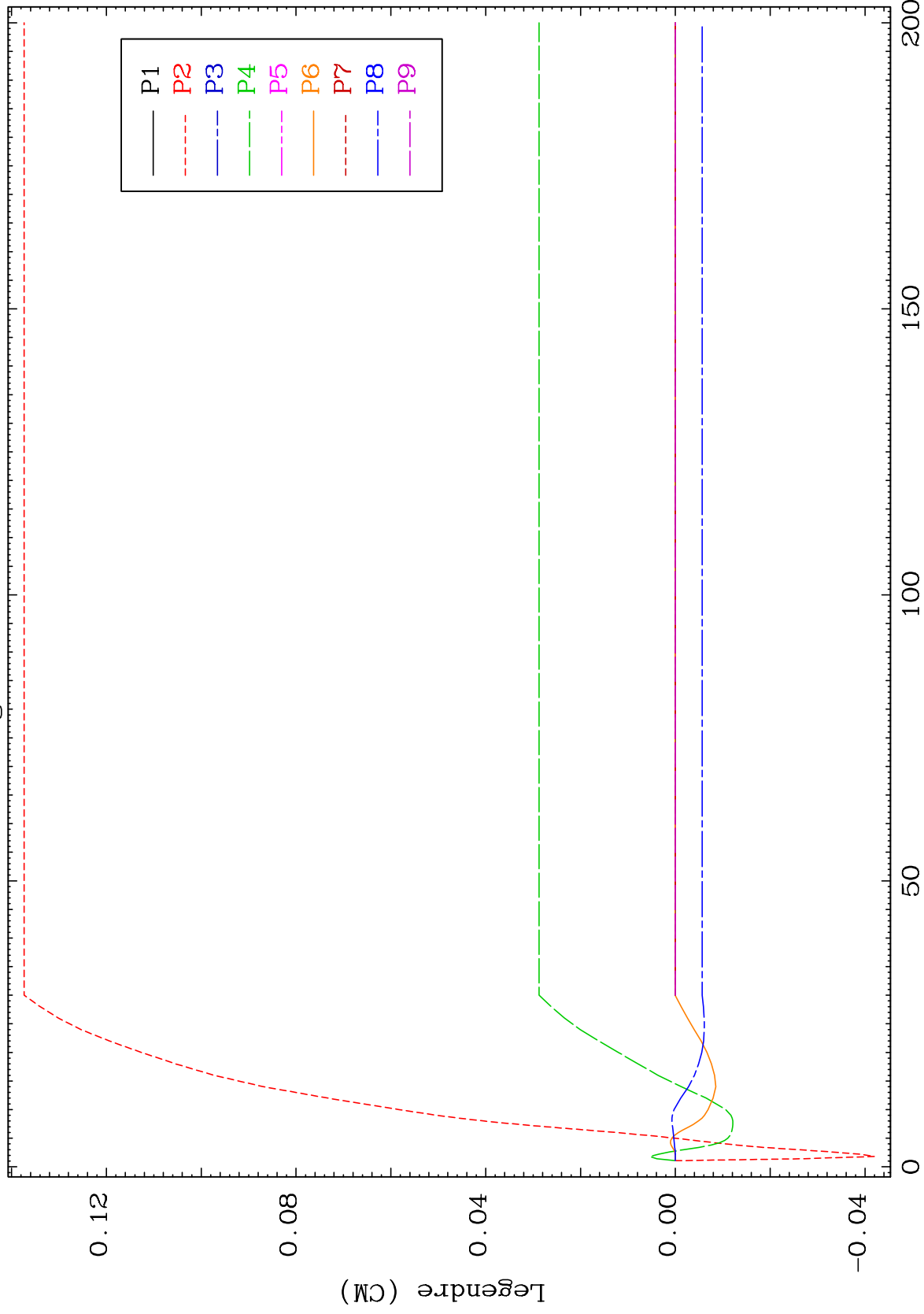
64-Gd-160



MAT 6449

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

64-Gd-160



49

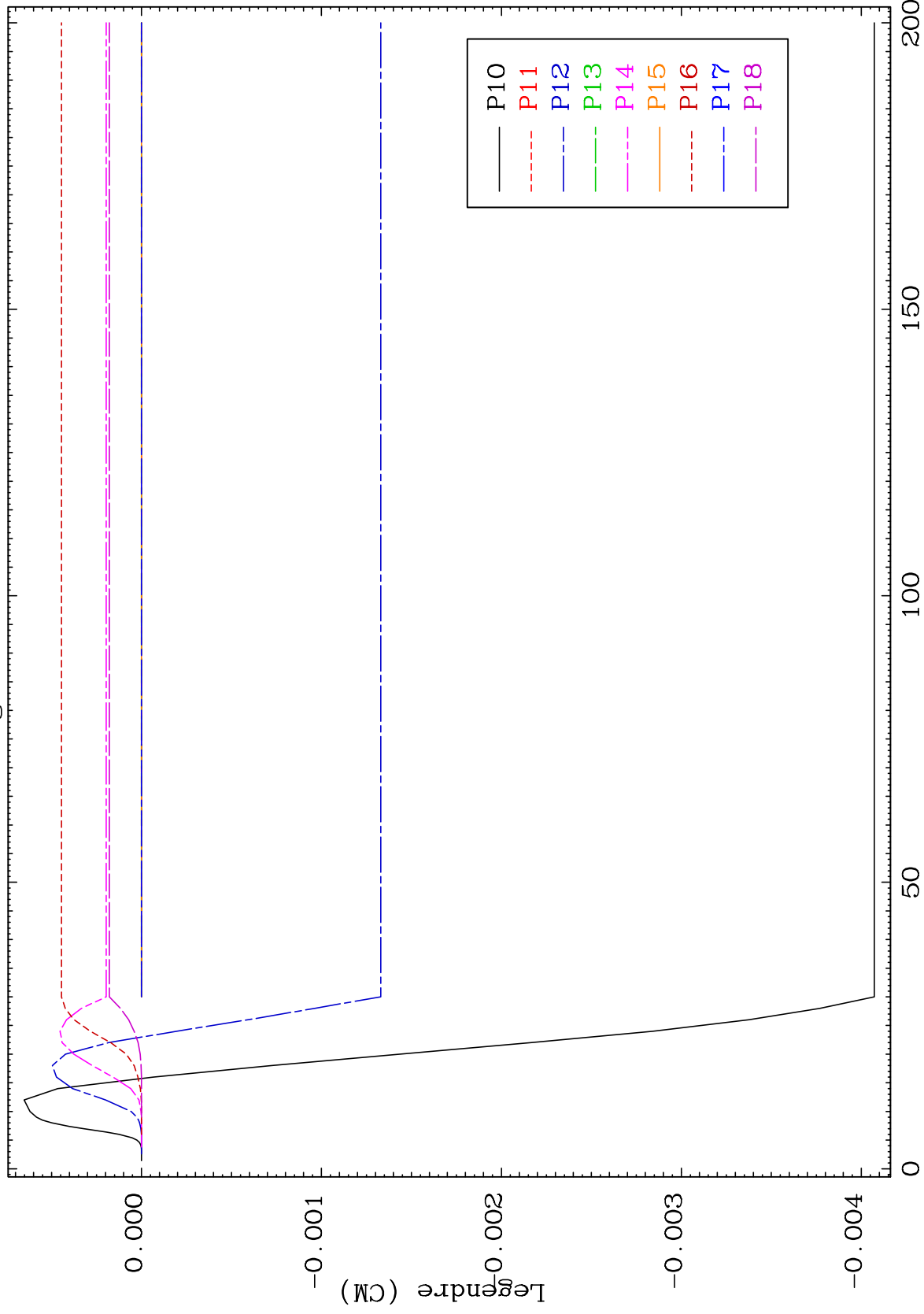
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

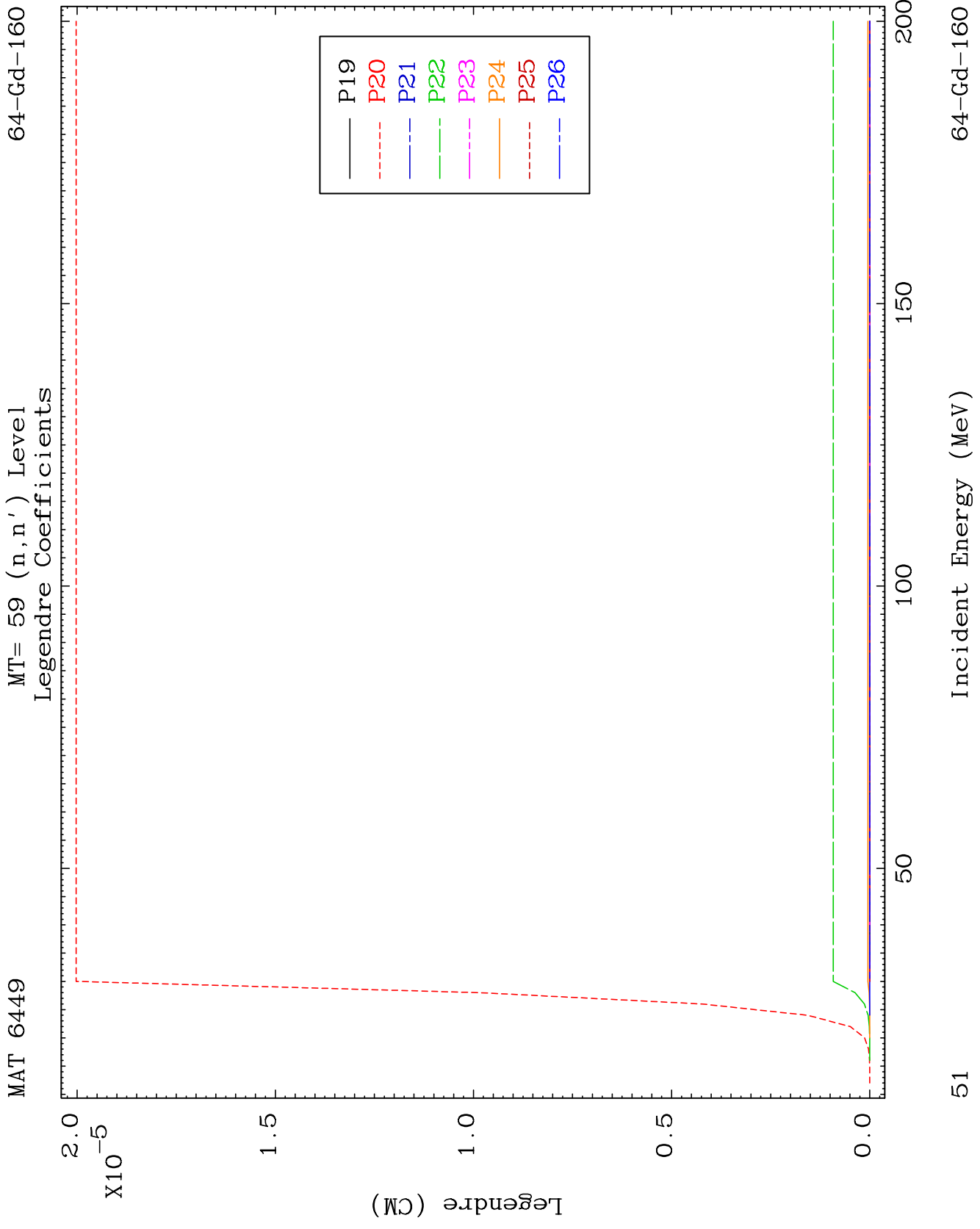
64-Gd-160



50

Incident Energy (MeV)

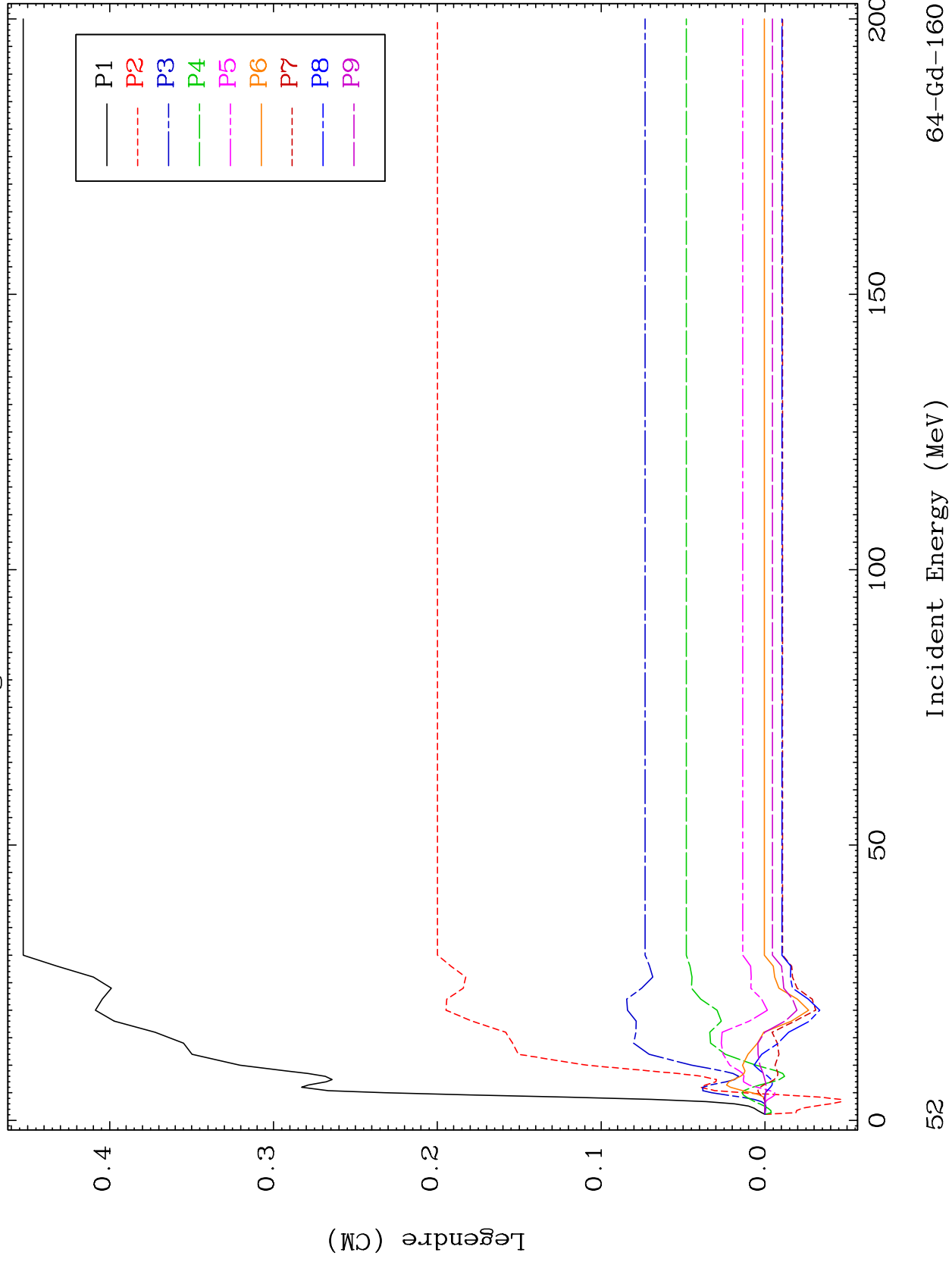
64-Gd-160



MAT 6449

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

64-Gd-160



52

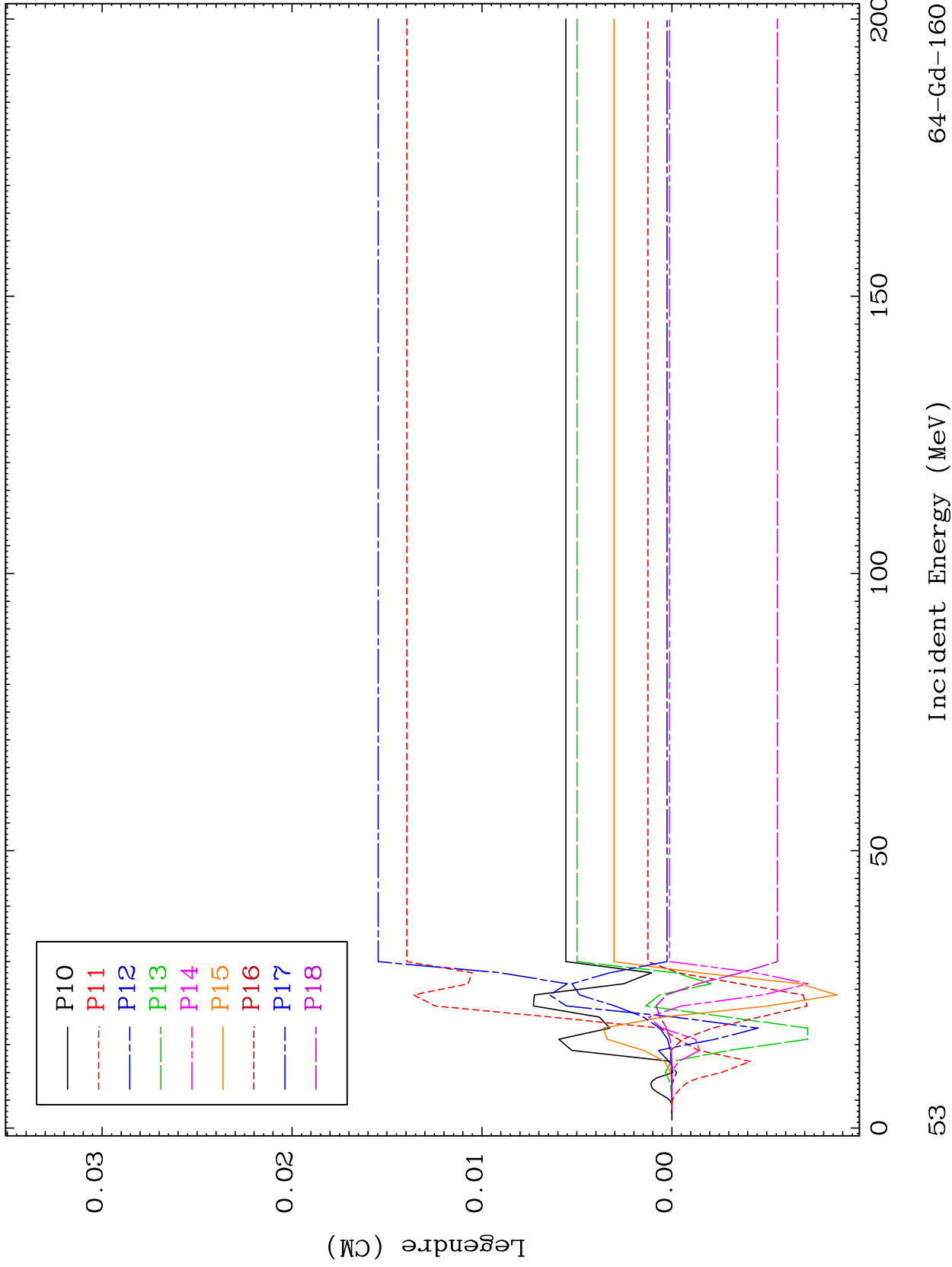
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160

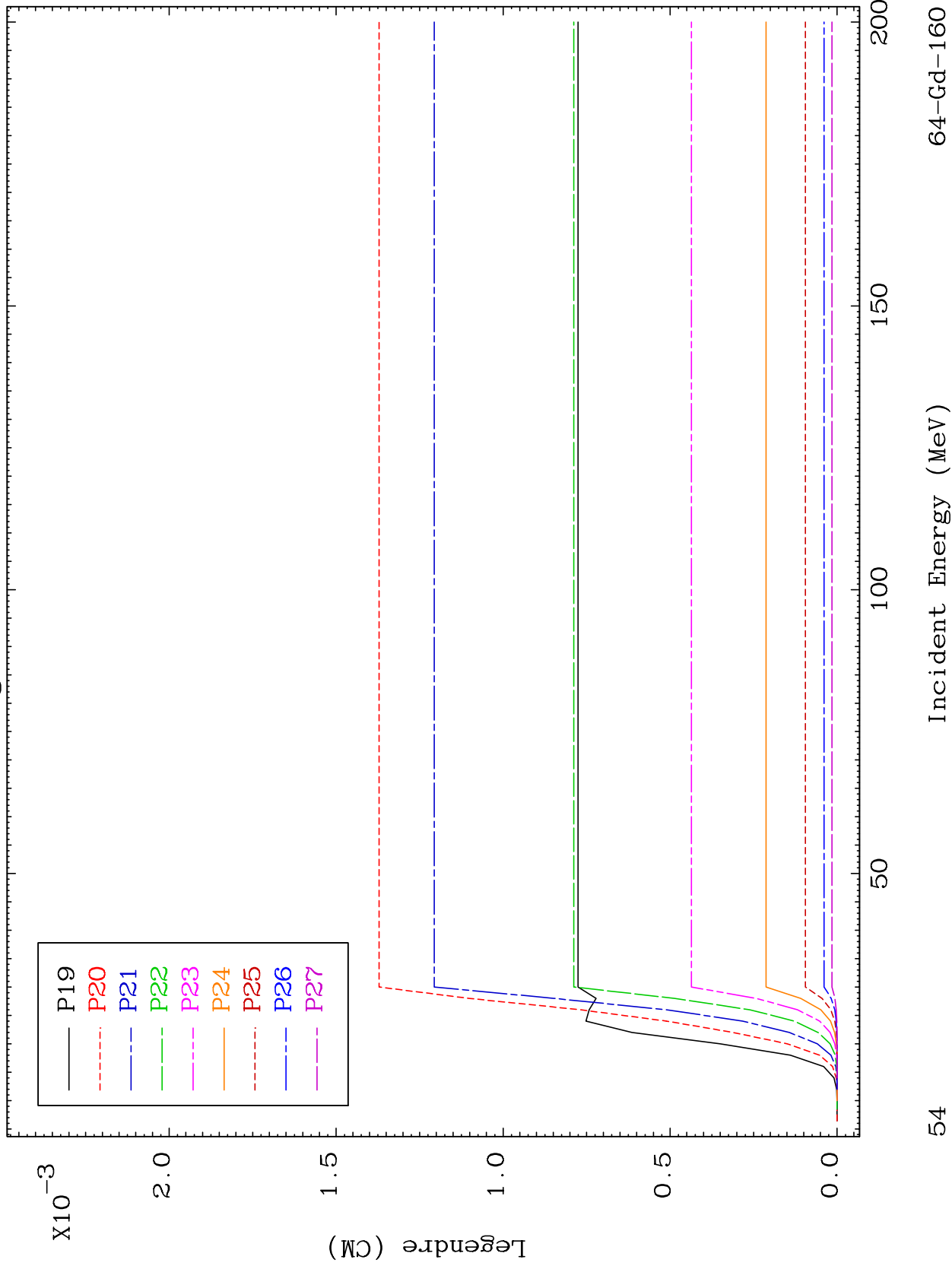


53

MAT 6449

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

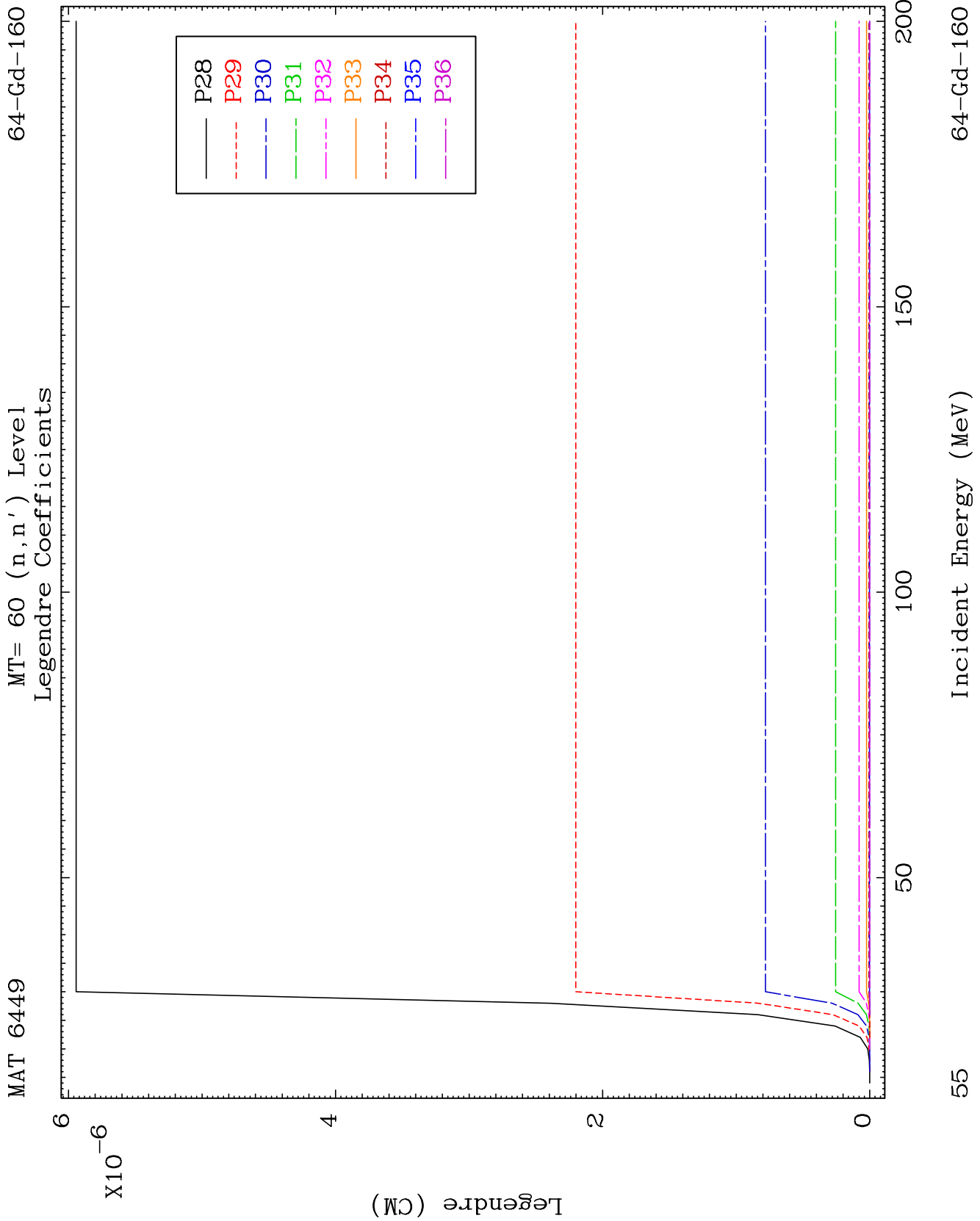
64-Gd-160



54

Incident Energy (MeV)

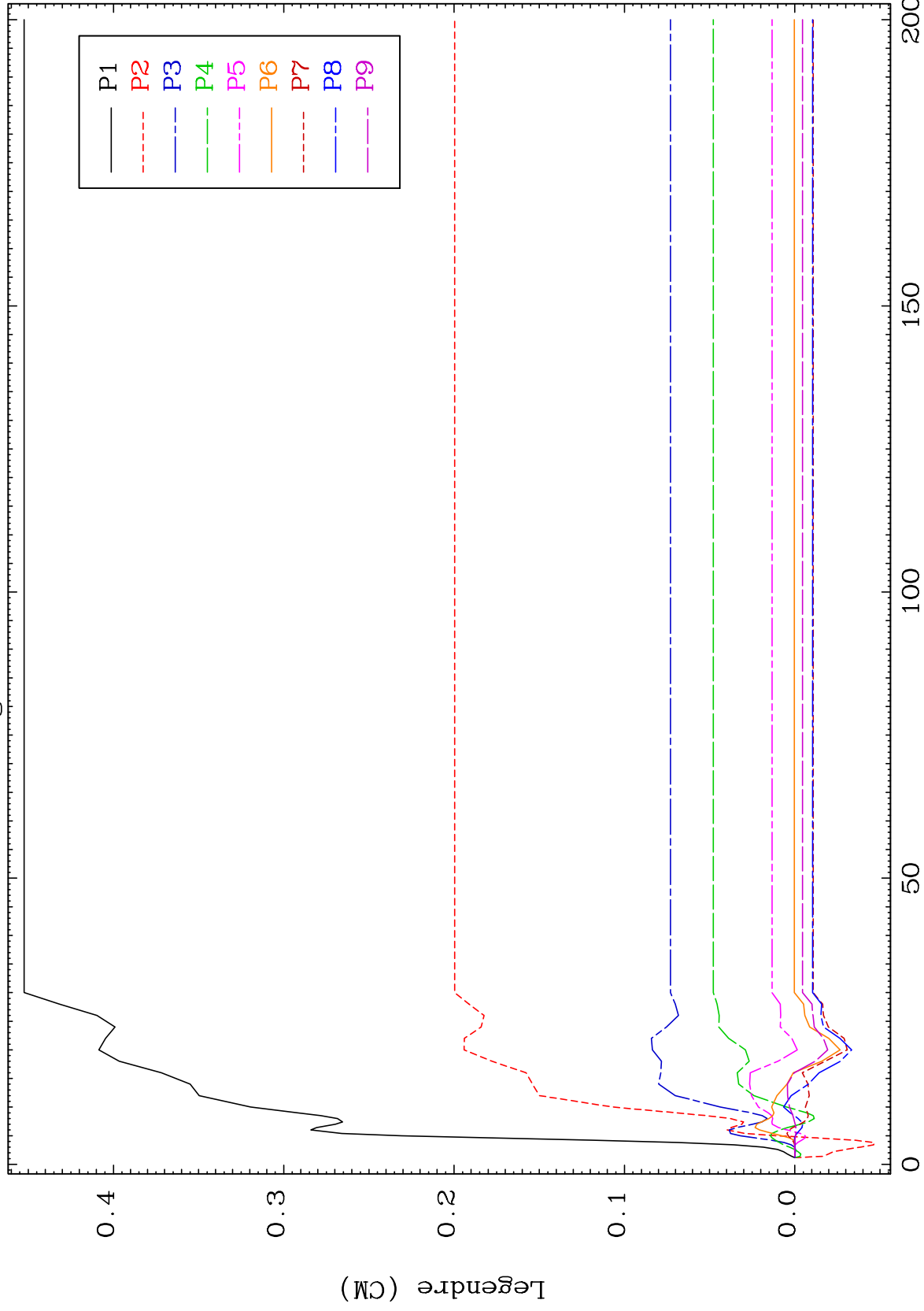
64-Gd-160



MAT 6449

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

64-Gd-160



56

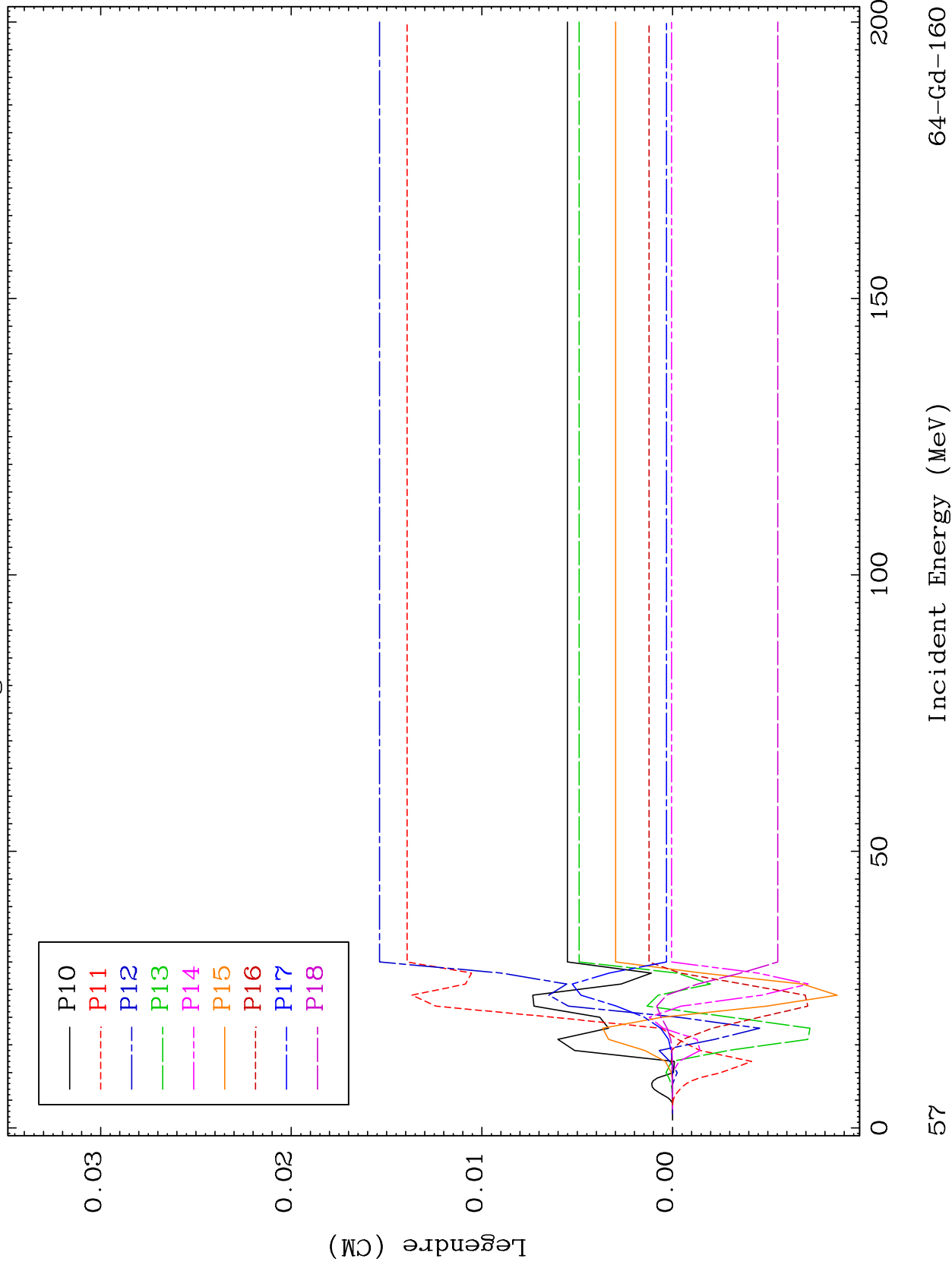
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160



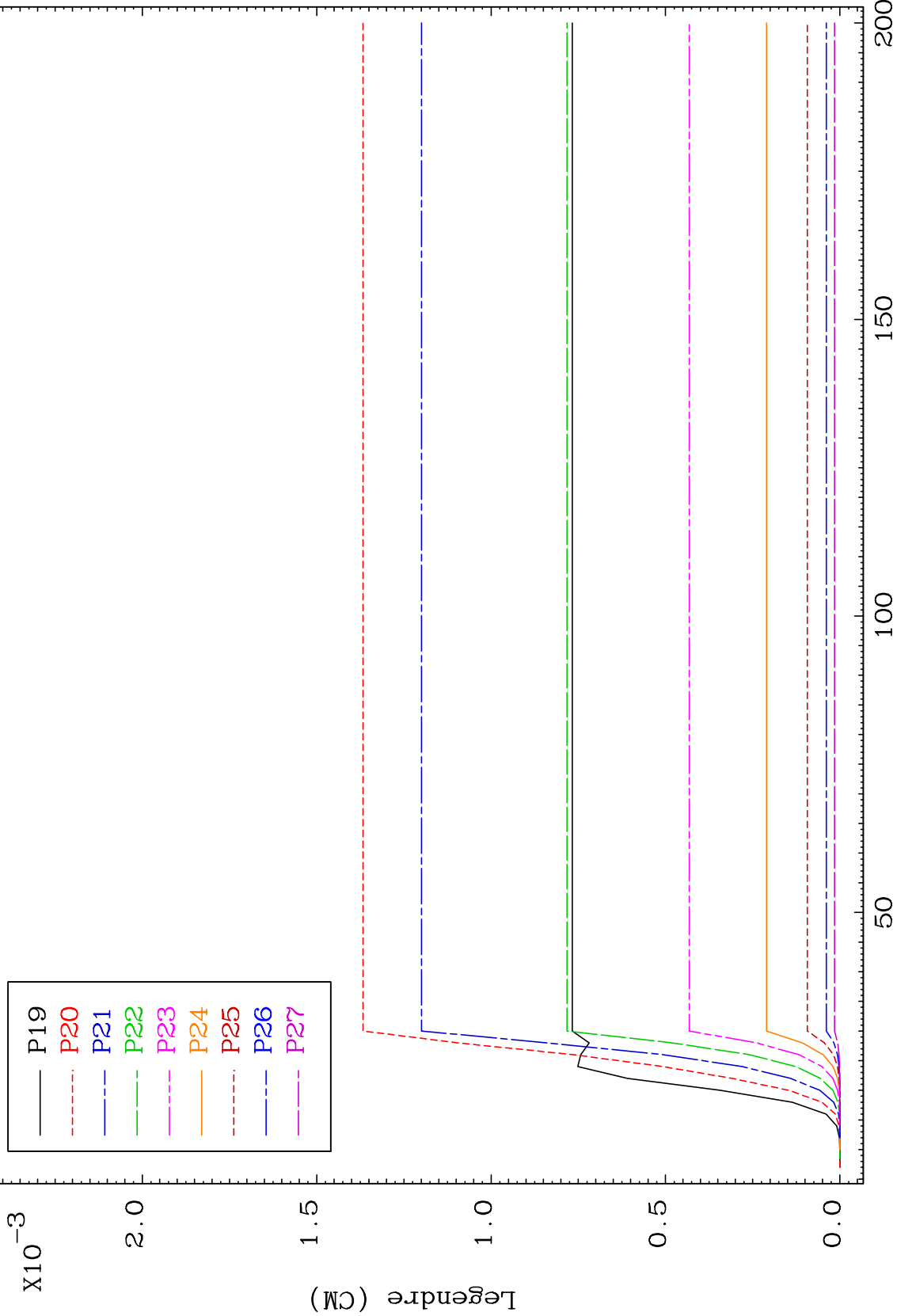
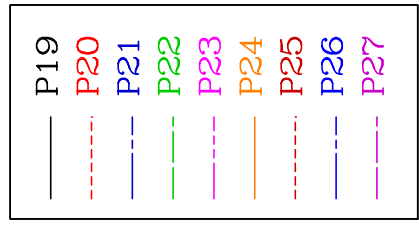
57

64-Gd-160

MAT 6449

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

64-Gd-160



58

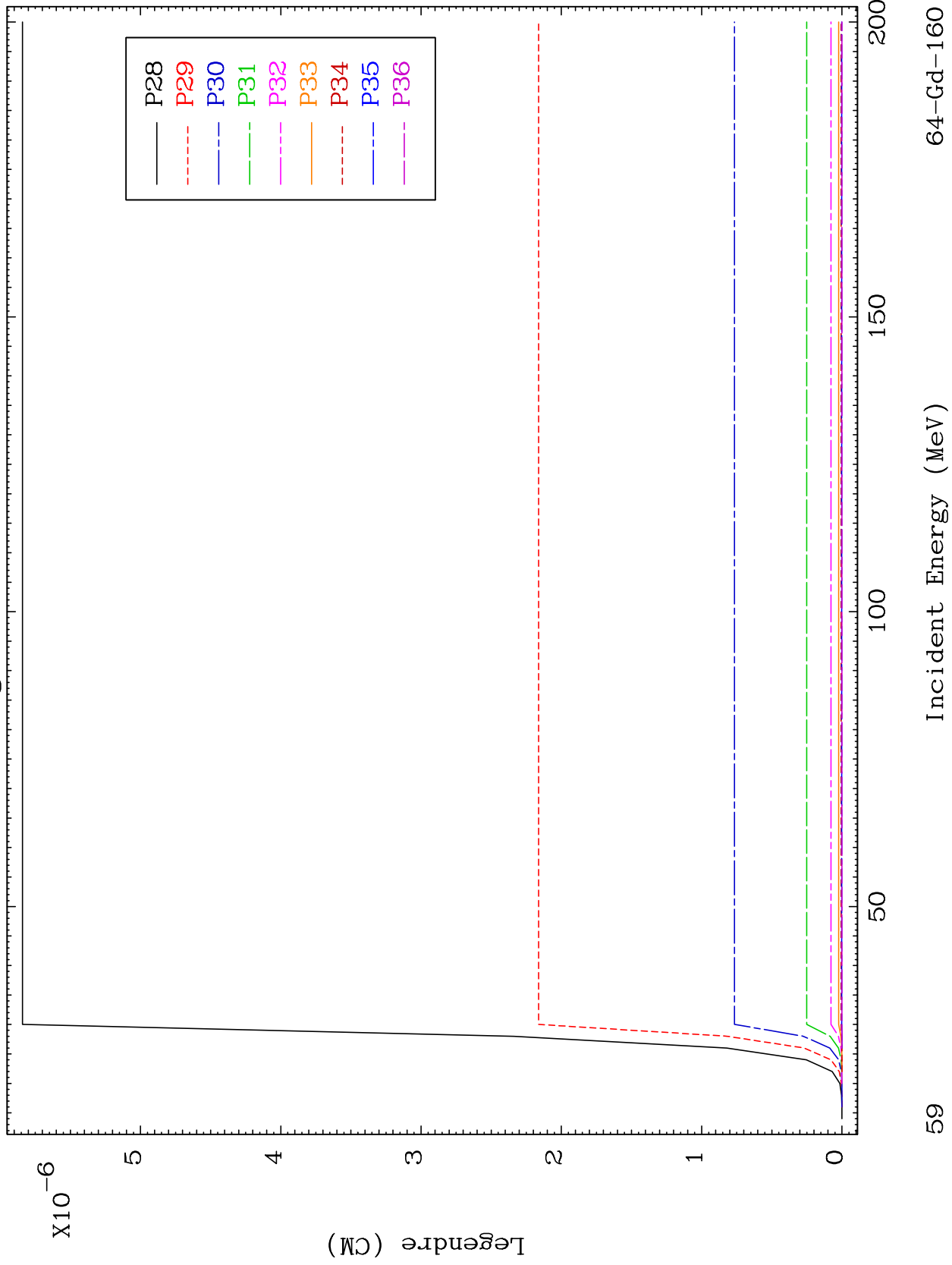
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160



59

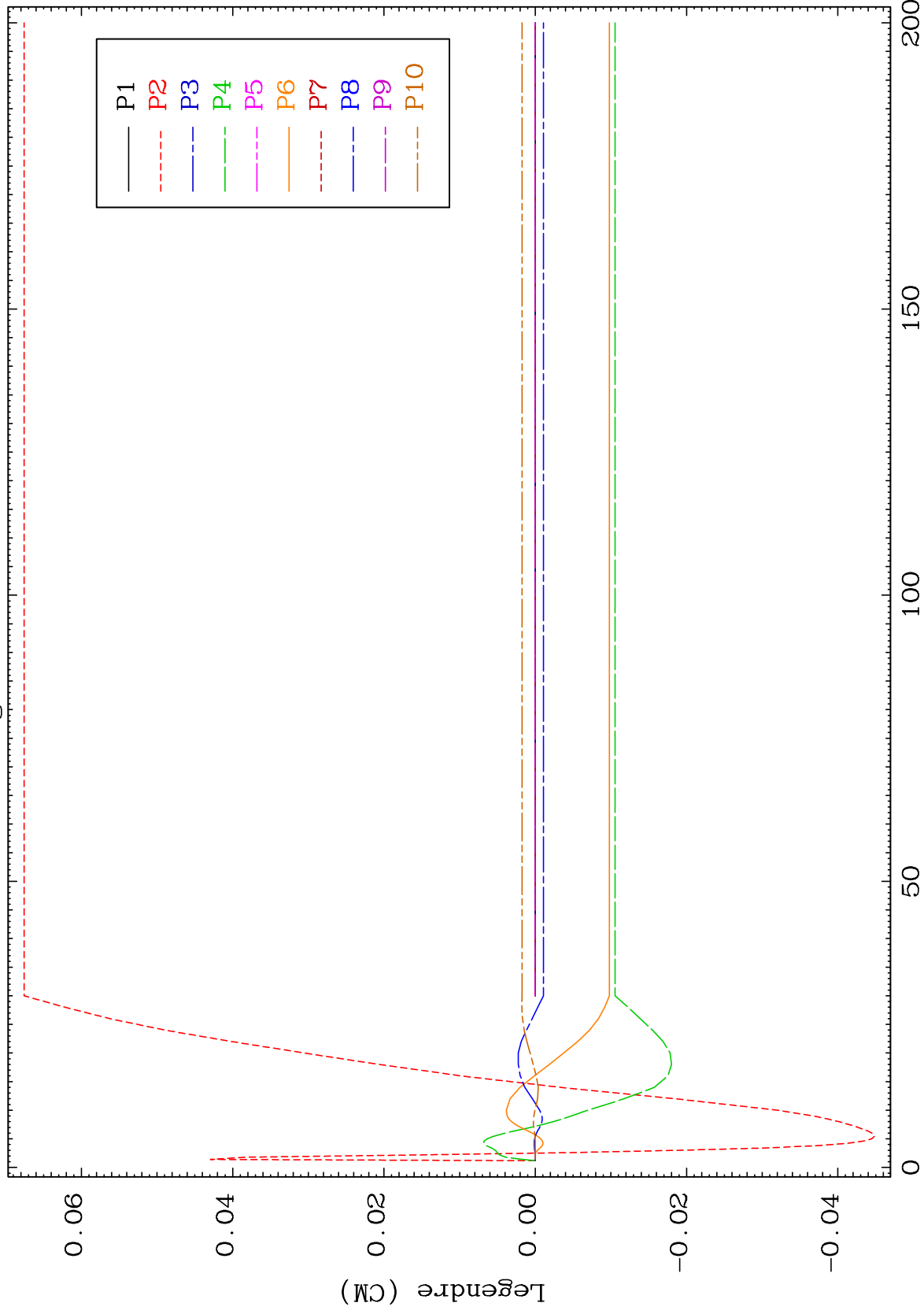
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

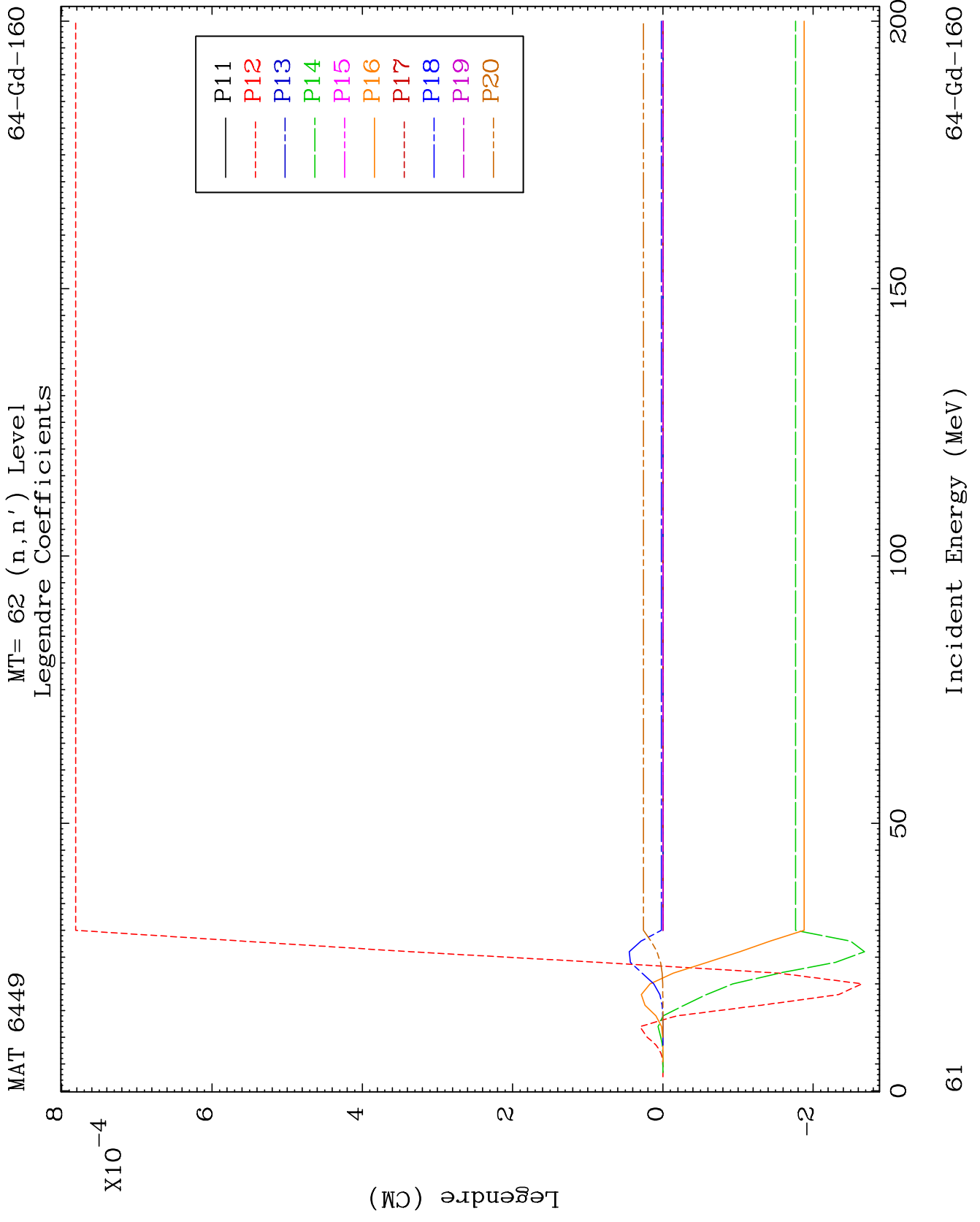
64-Gd-160



64-Gd-160

Incident Energy (MeV)

60

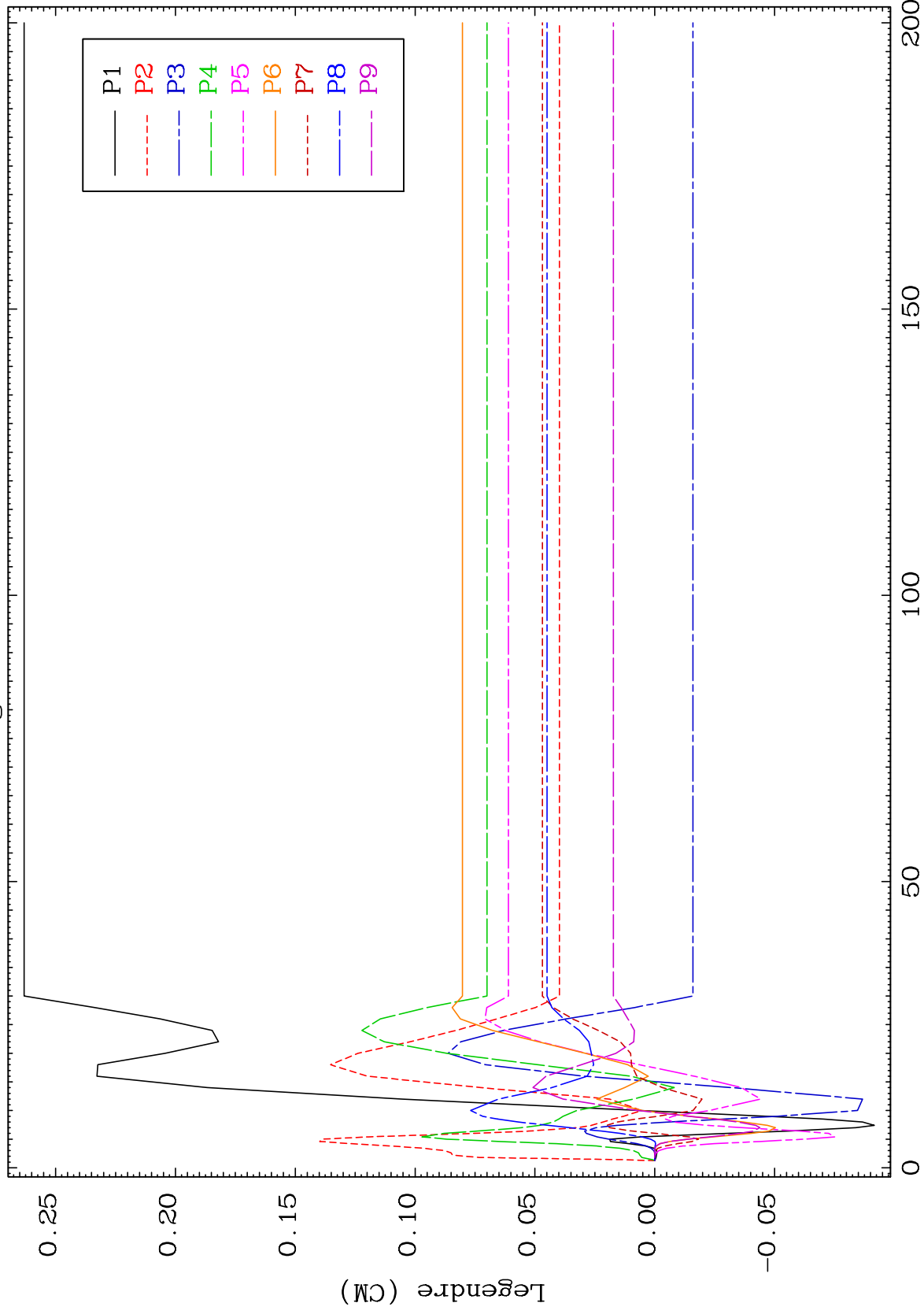




MAT 6449

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

64-Gd-160



63

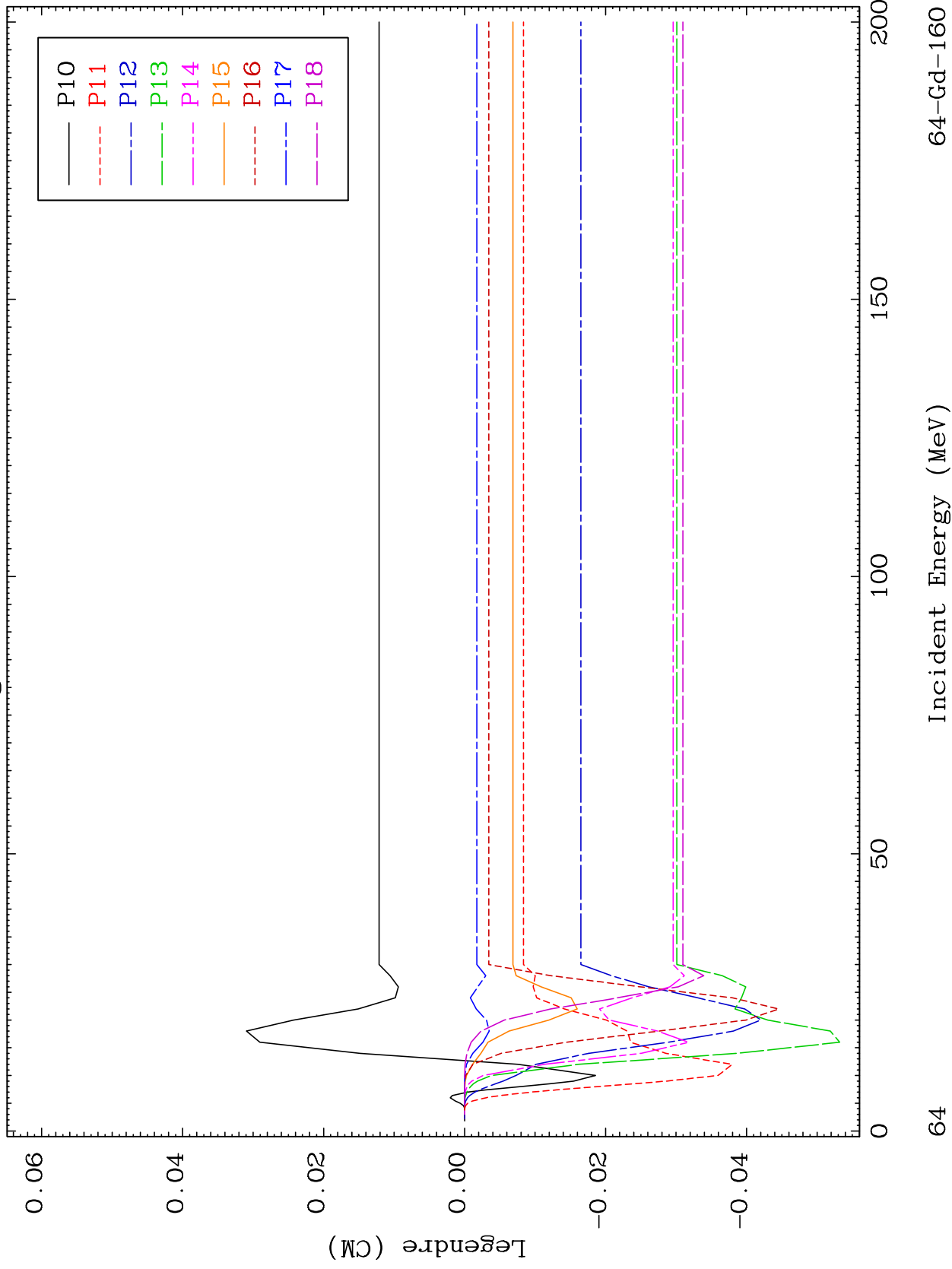
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160



64-Gd-160

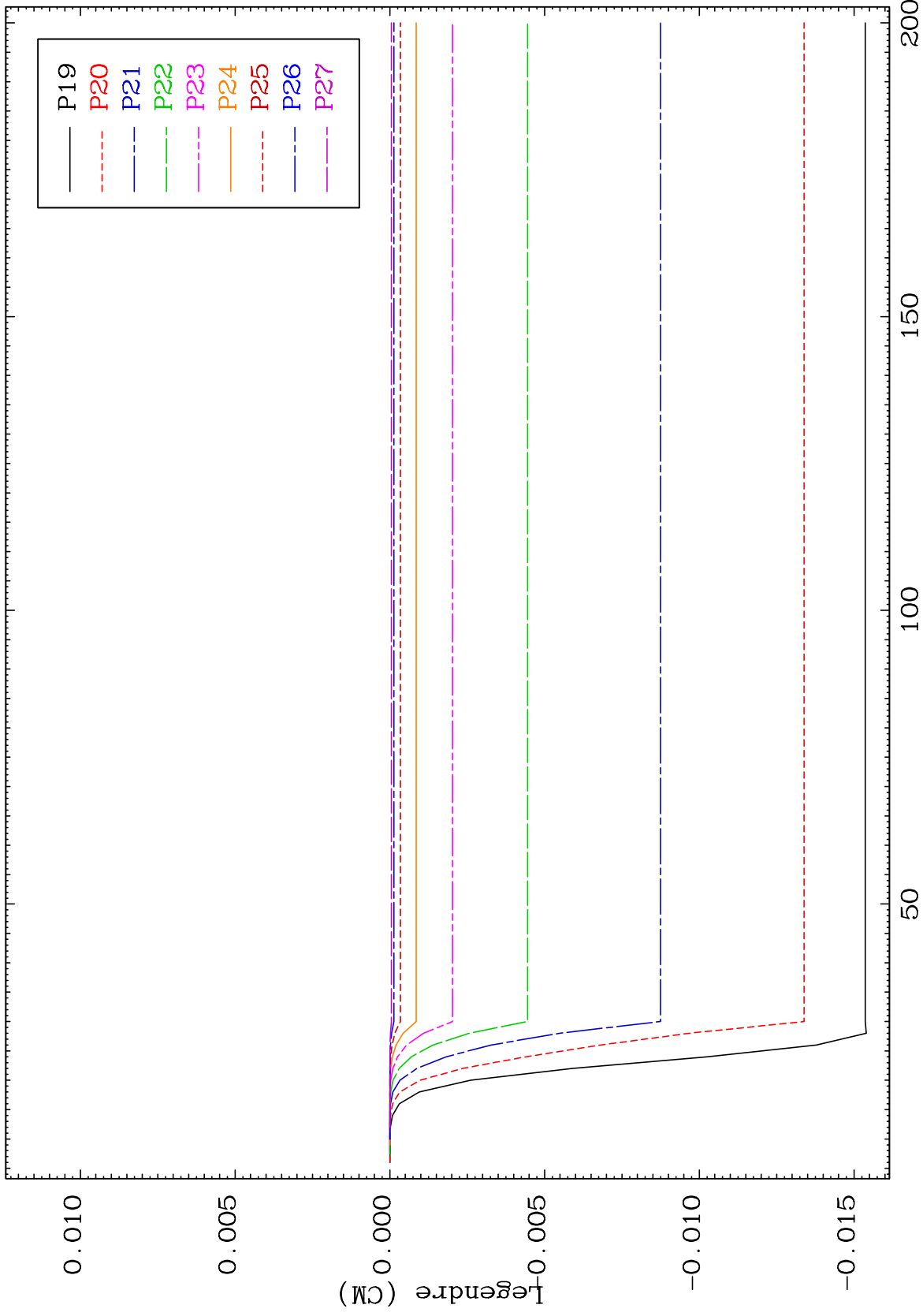
Incident Energy (MeV)

64

MAT 6449

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

64-Gd-160



65

Incident Energy (MeV)

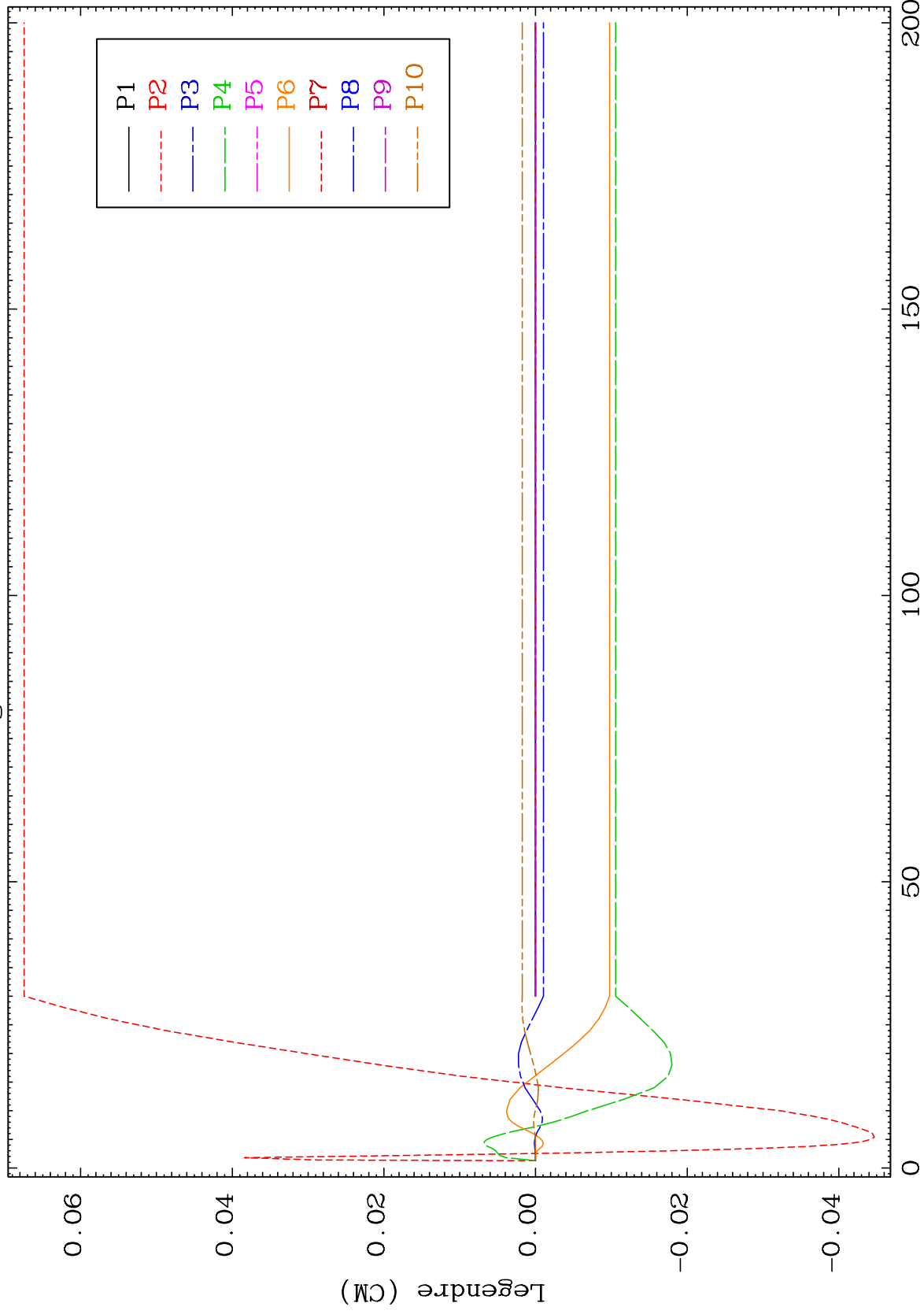
64-Gd-160



MAT 6449

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

64-Gd-160



64-Gd-160

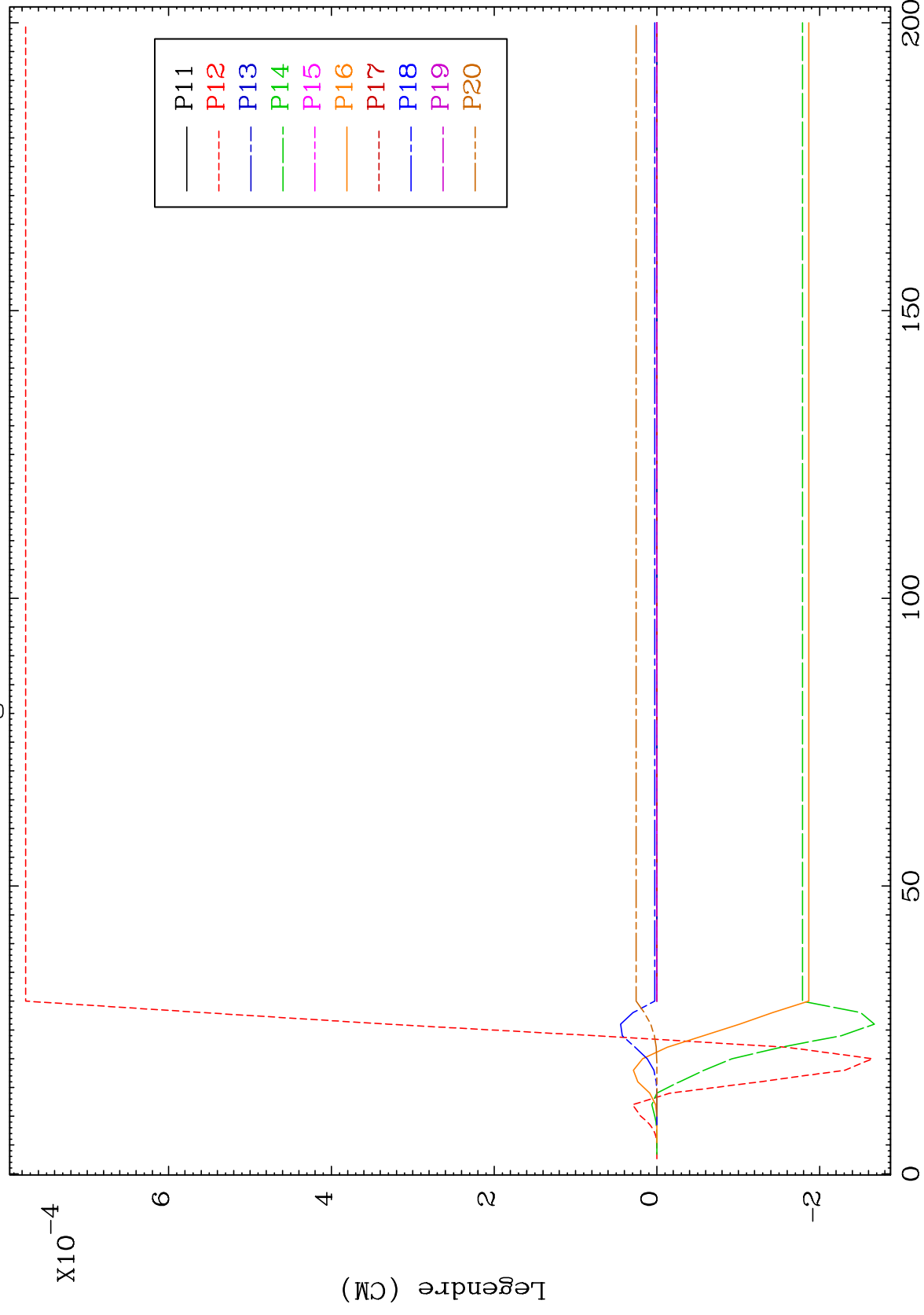
Incident Energy (MeV)

67

MAT 6449

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

64-Gd-160



68

Incident Energy (MeV)

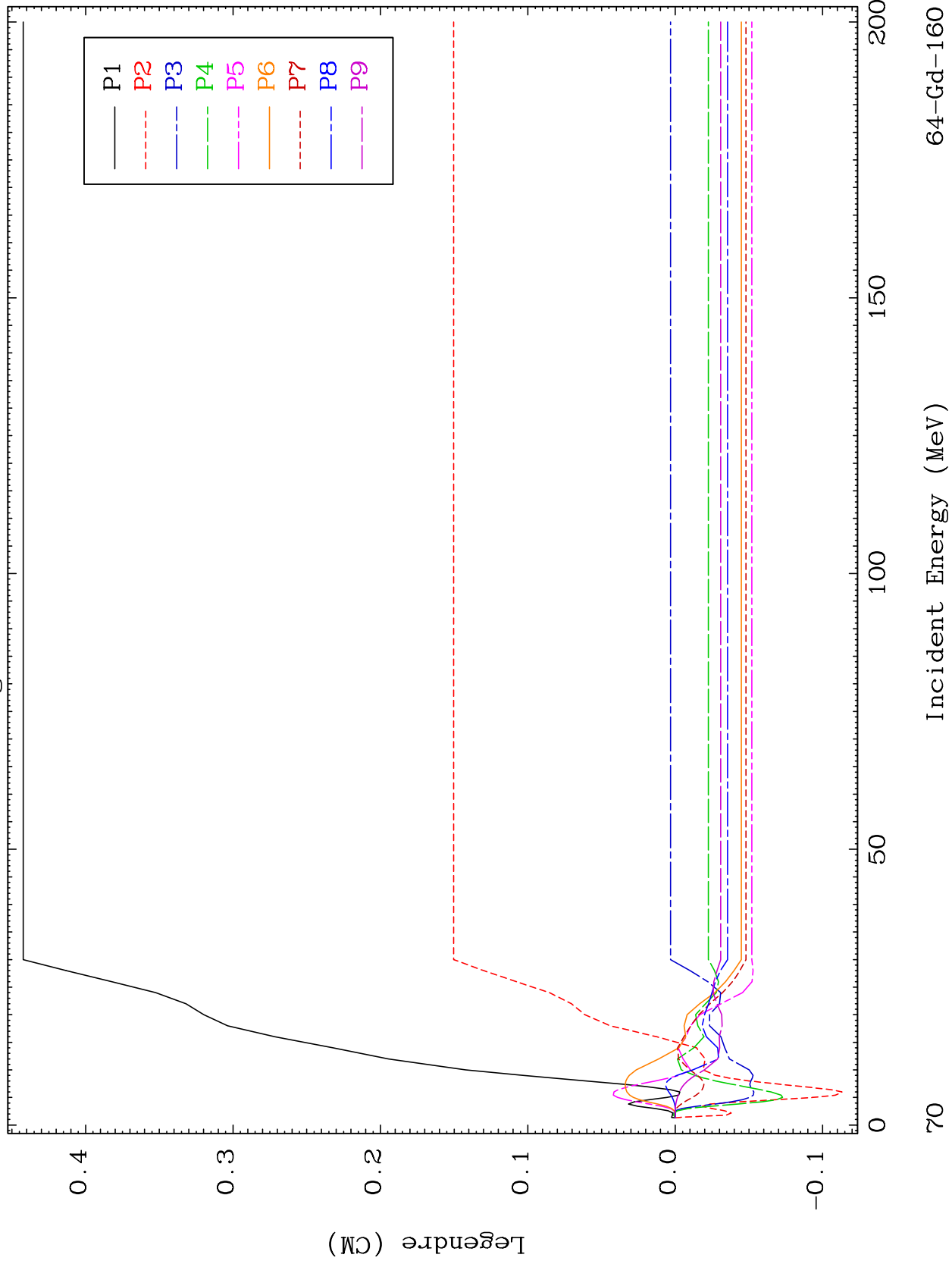
64-Gd-160



MAT 6449

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

64-Gd-160



64-Gd-160

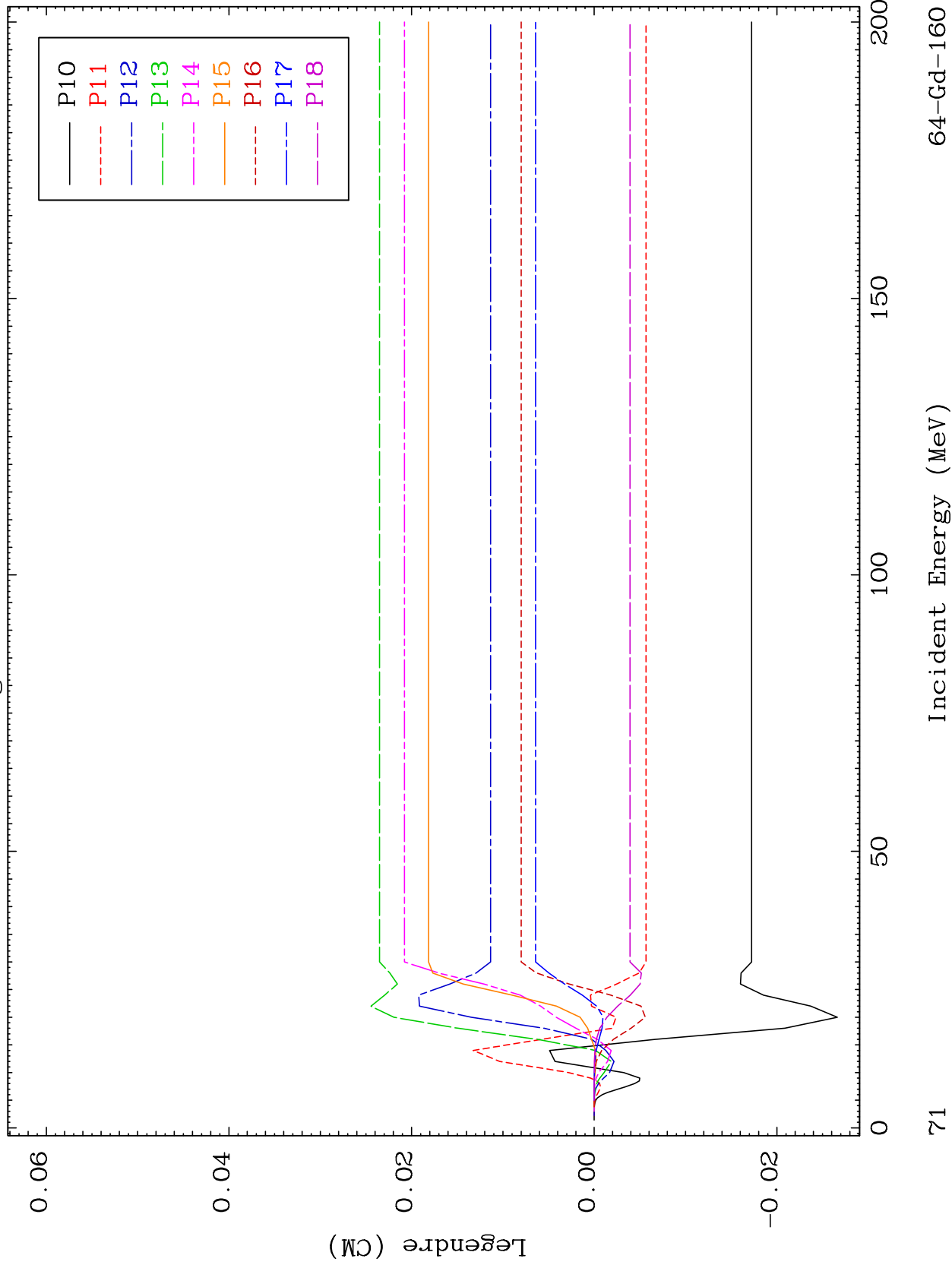
Incident Energy (MeV)

70

MAT 6449

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

64-Gd-160



71

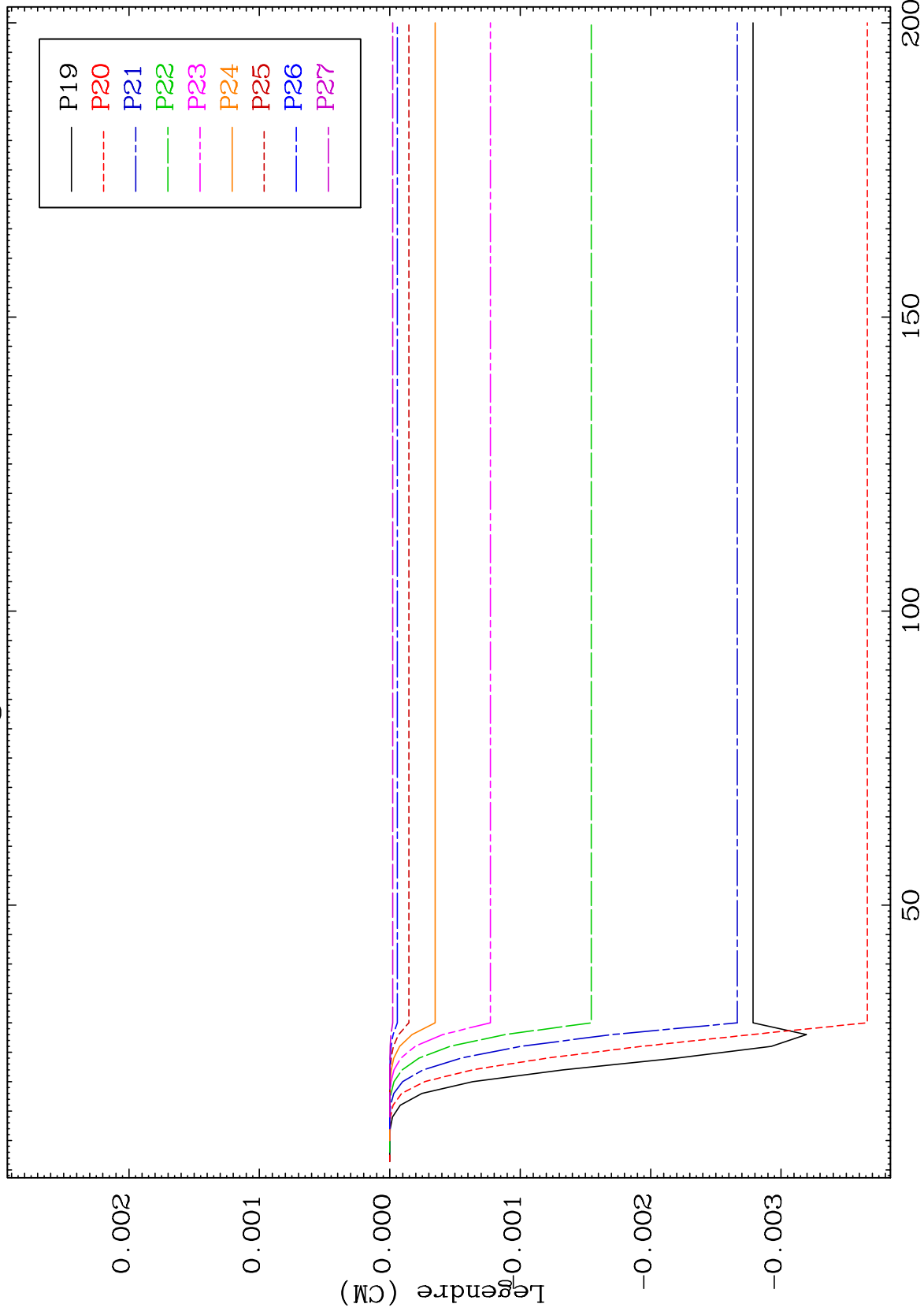
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

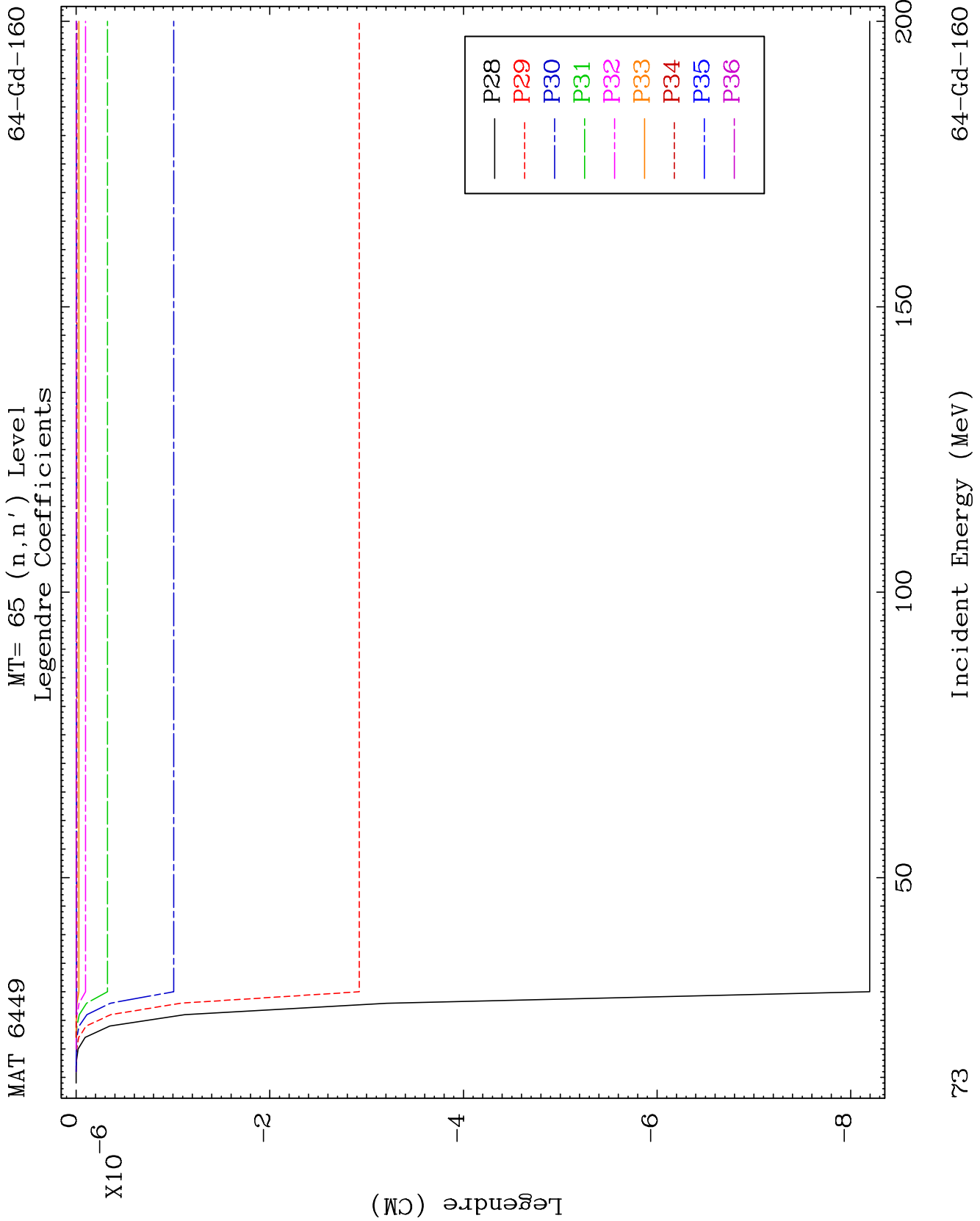
64-Gd-160



72

Incident Energy (MeV)

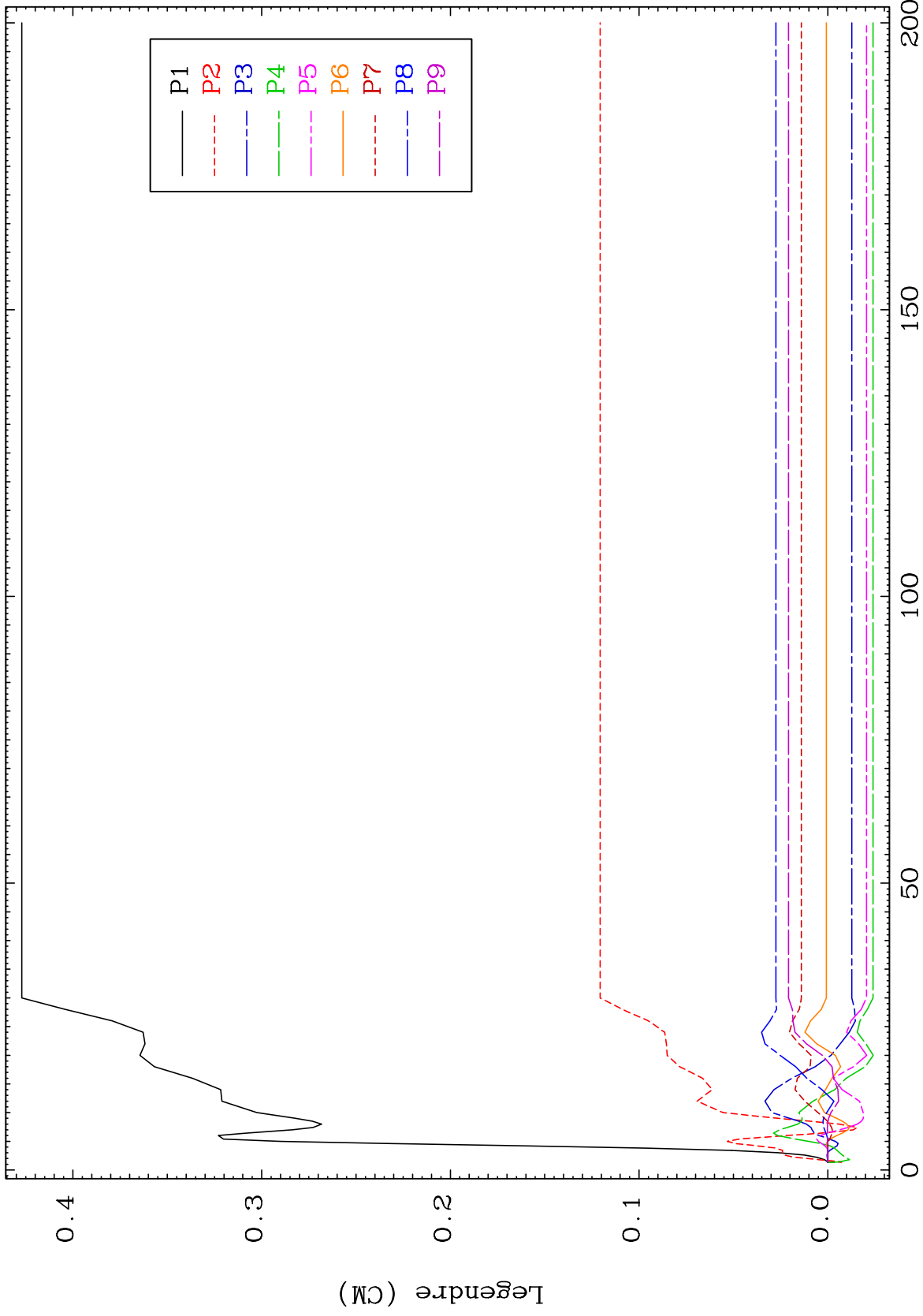
64-Gd-160



MAT 6449

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

64-Gd-160



74

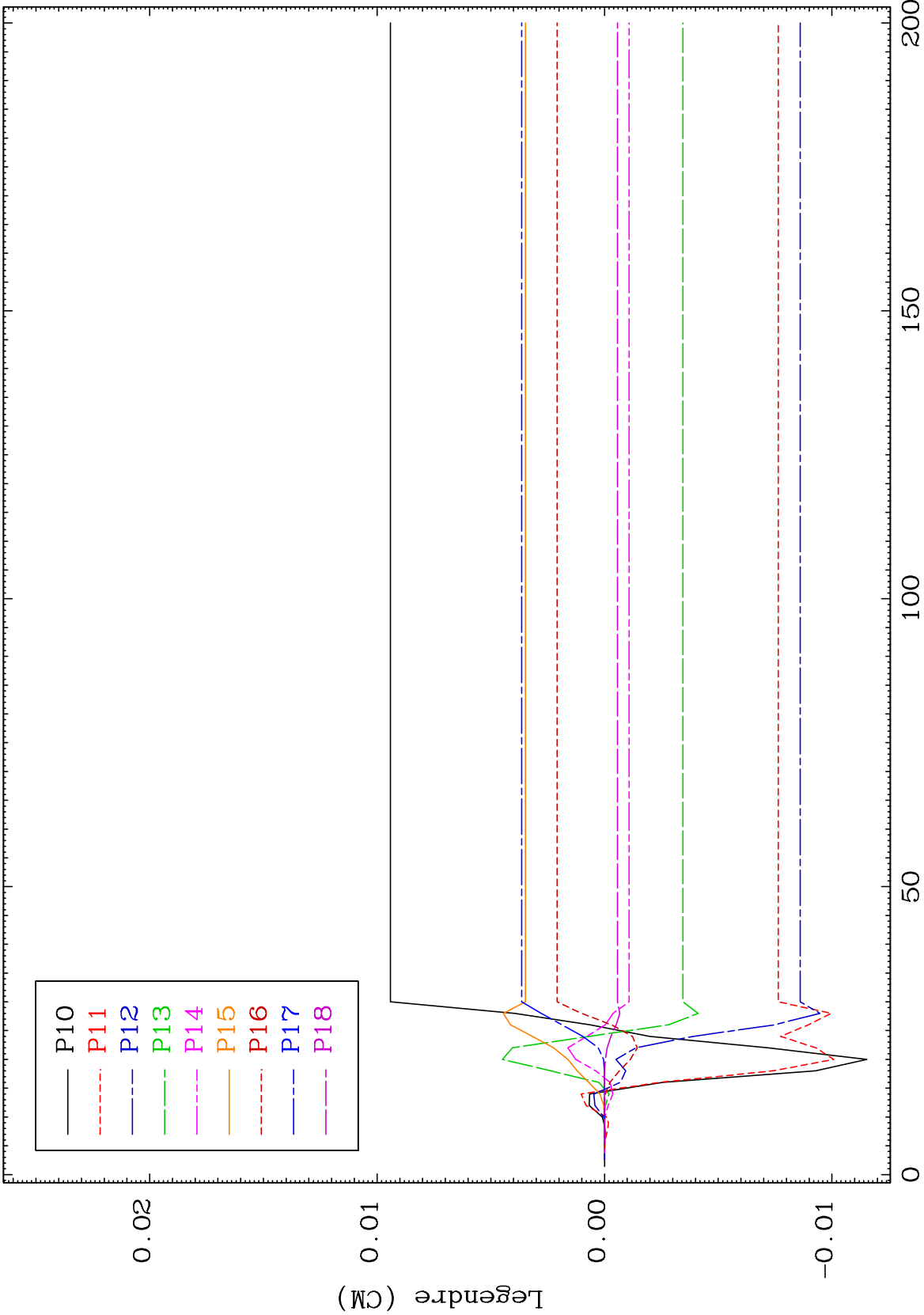
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

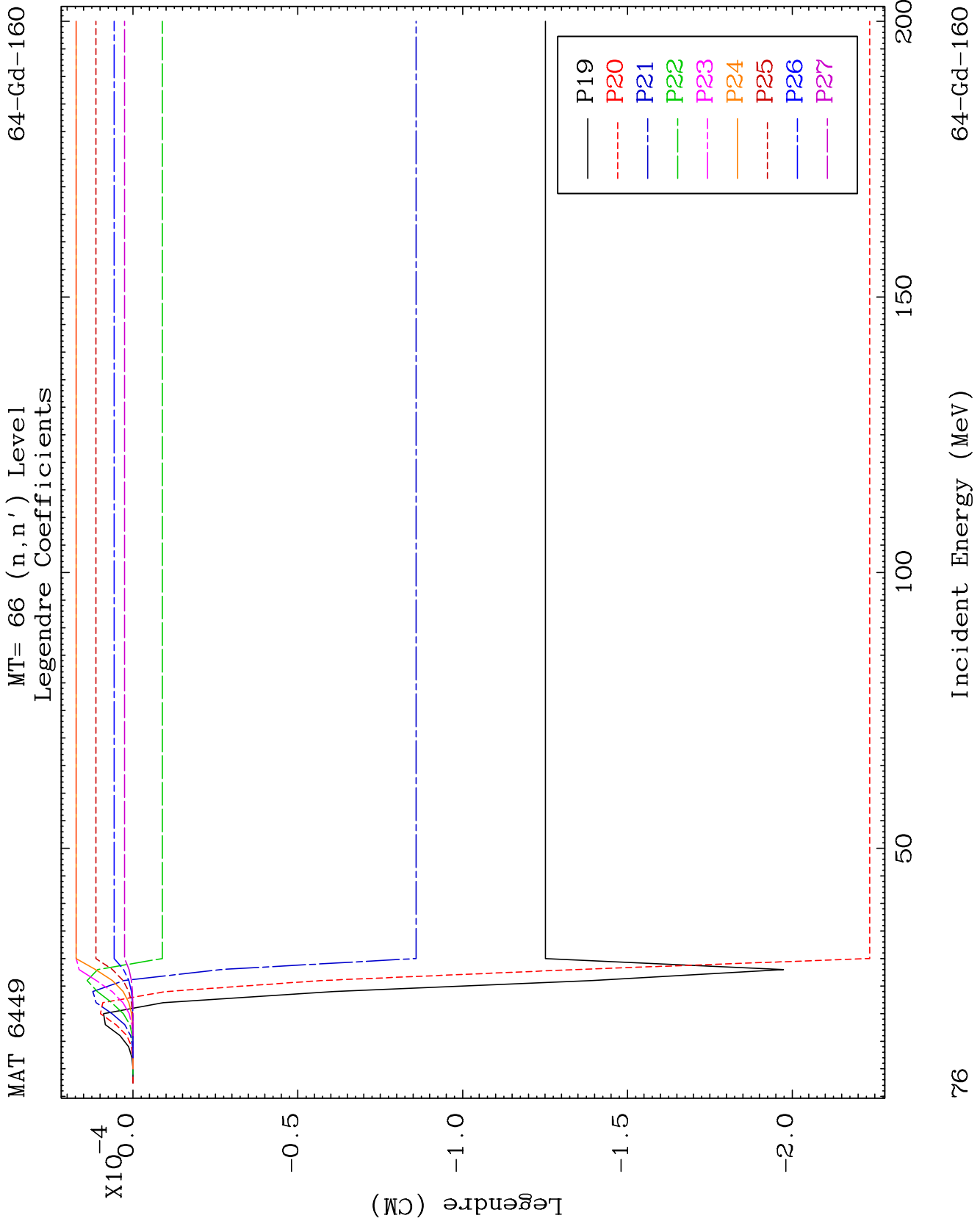
64-Gd-160



75

Incident Energy (MeV)

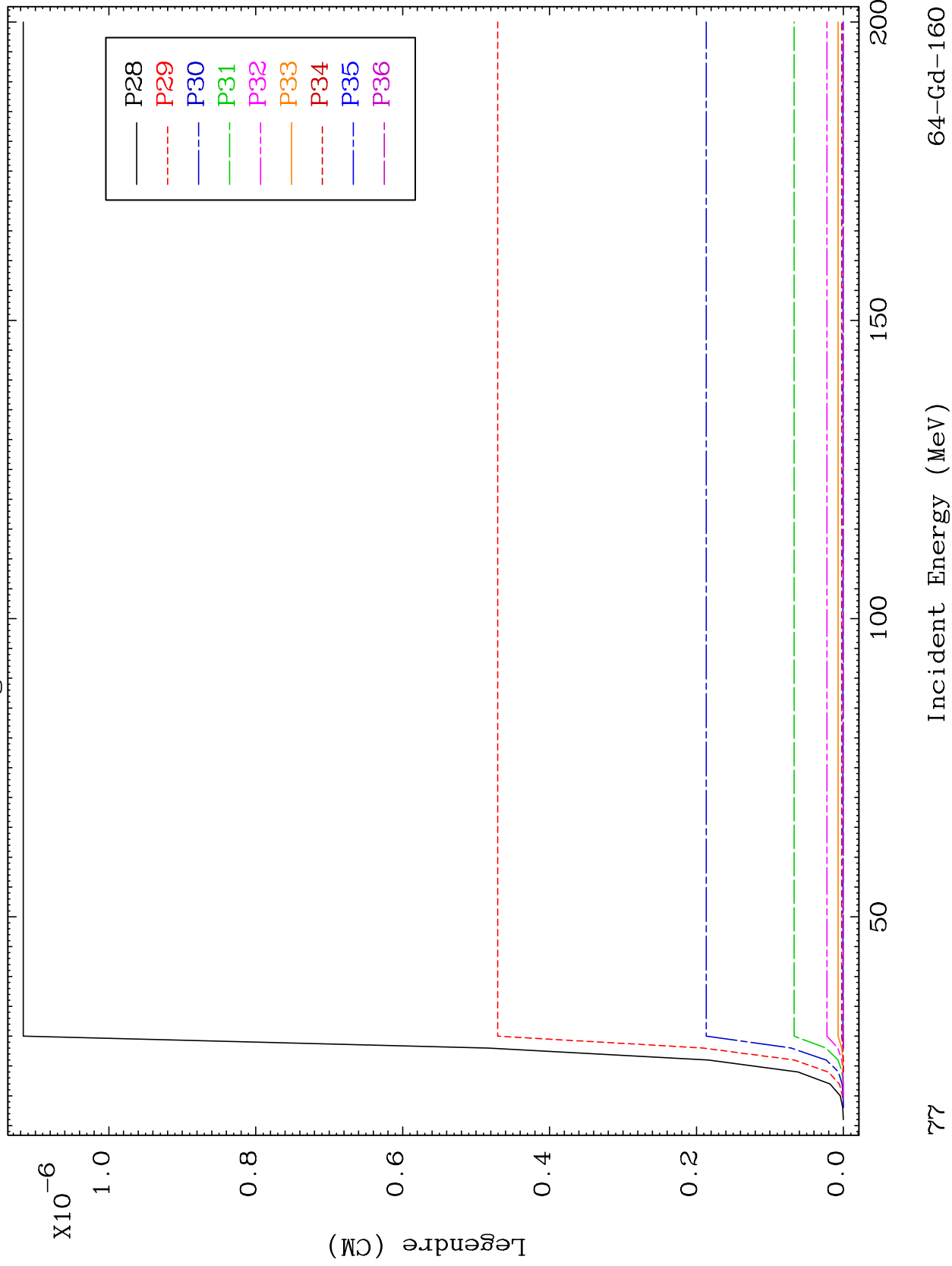
64-Gd-160



MAT 6449

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

64-Gd-160



77

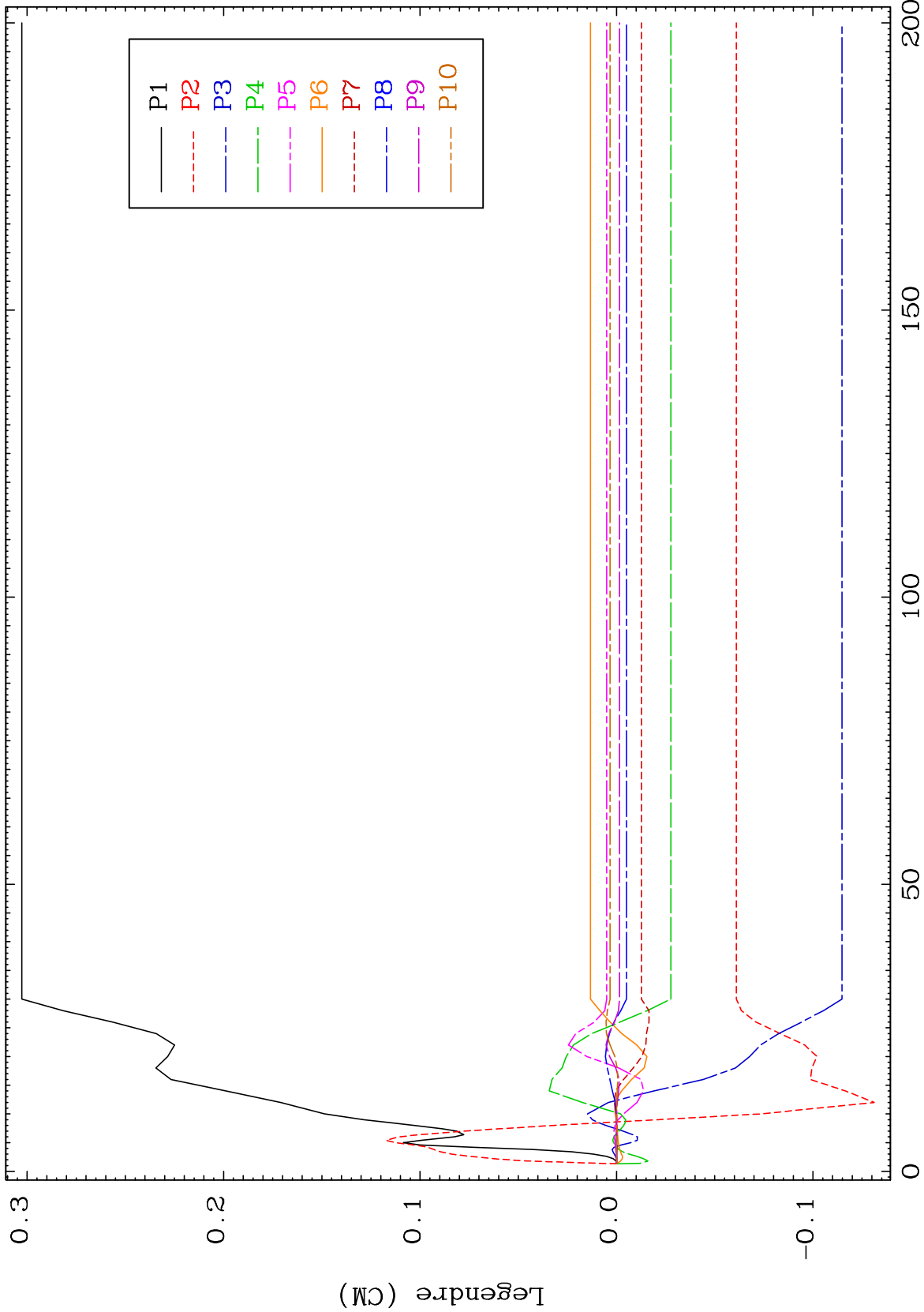
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160



78

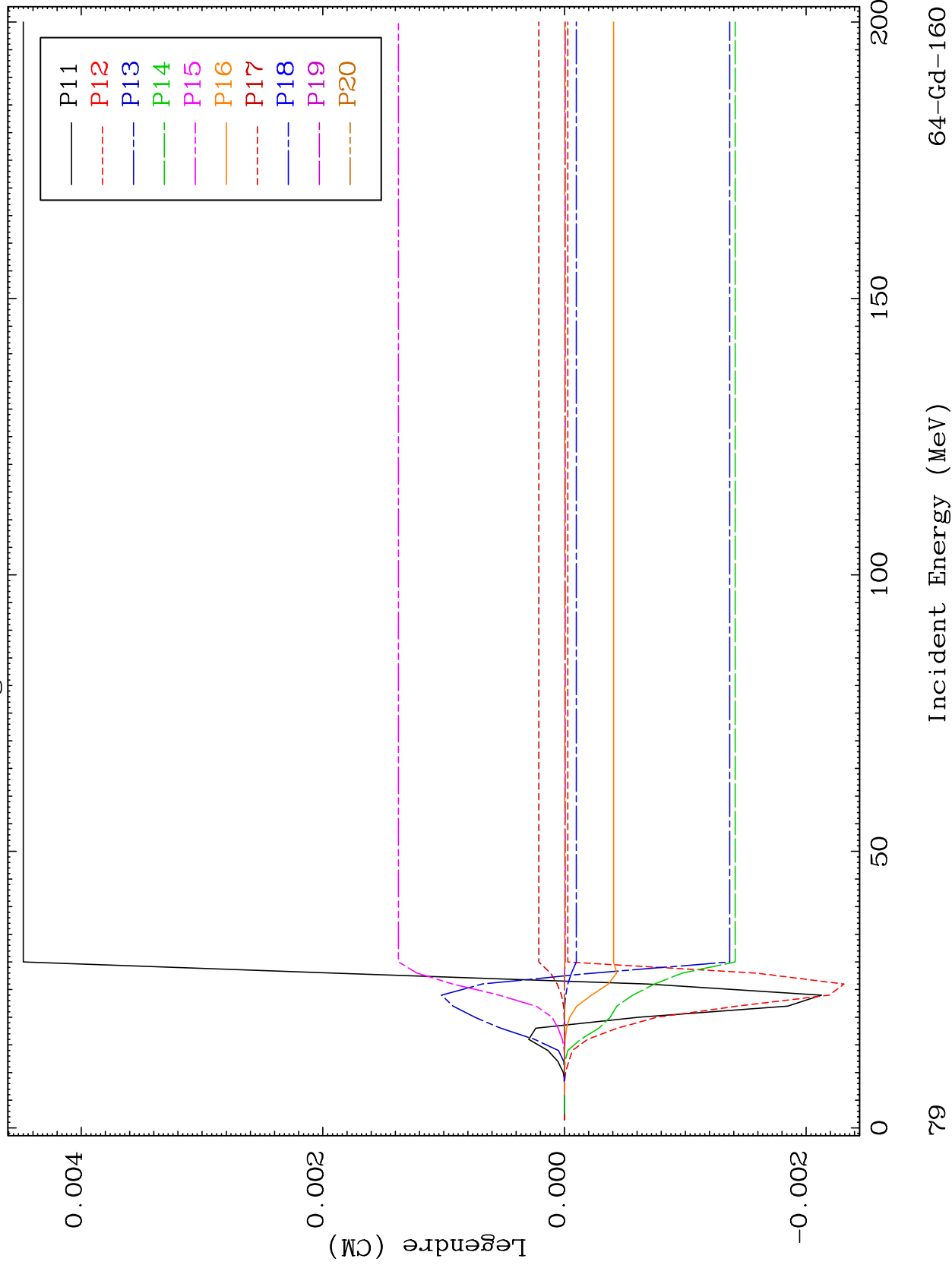
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

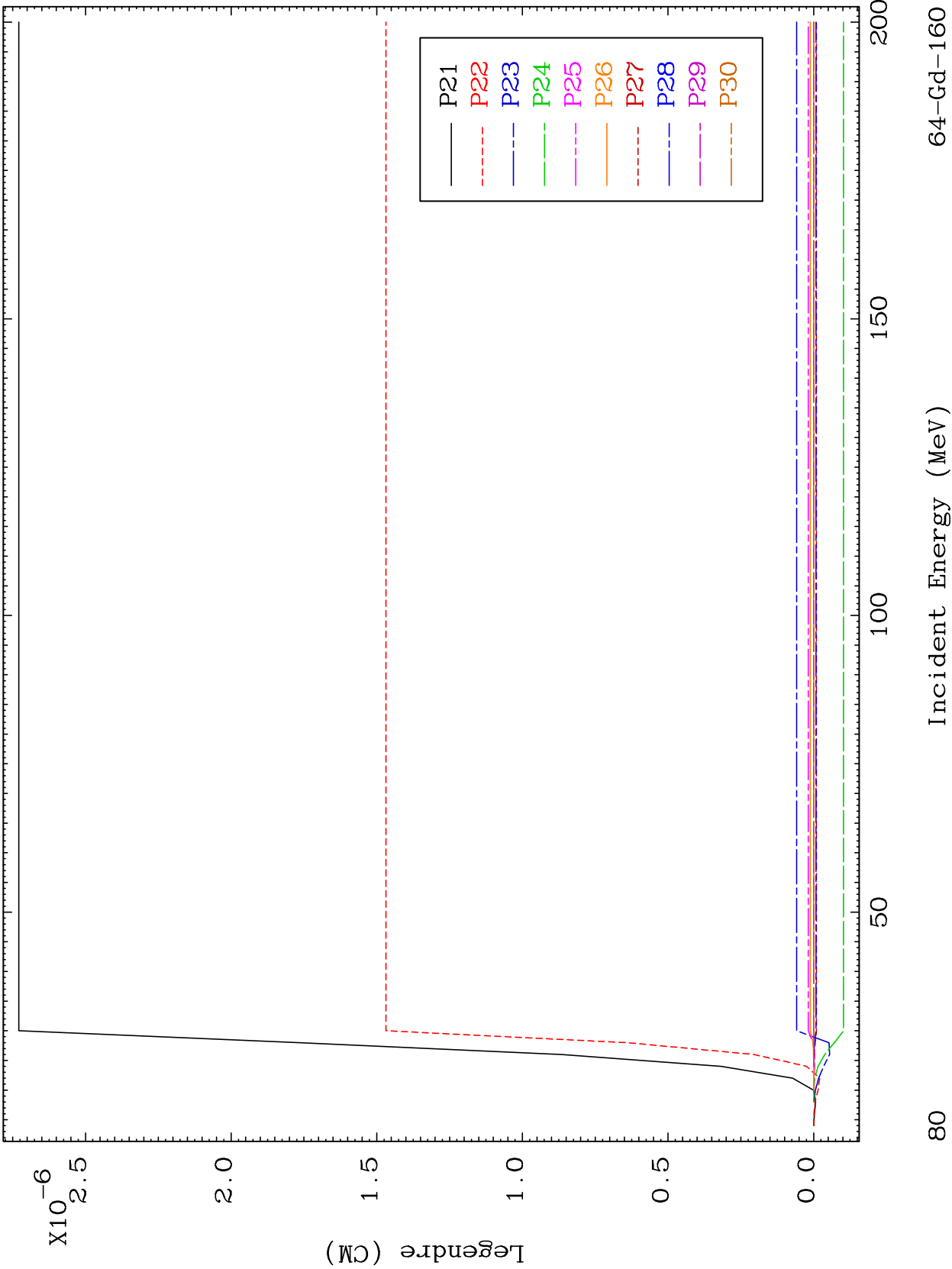
64-Gd-160



MAT 6449

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

64-Gd-160



80

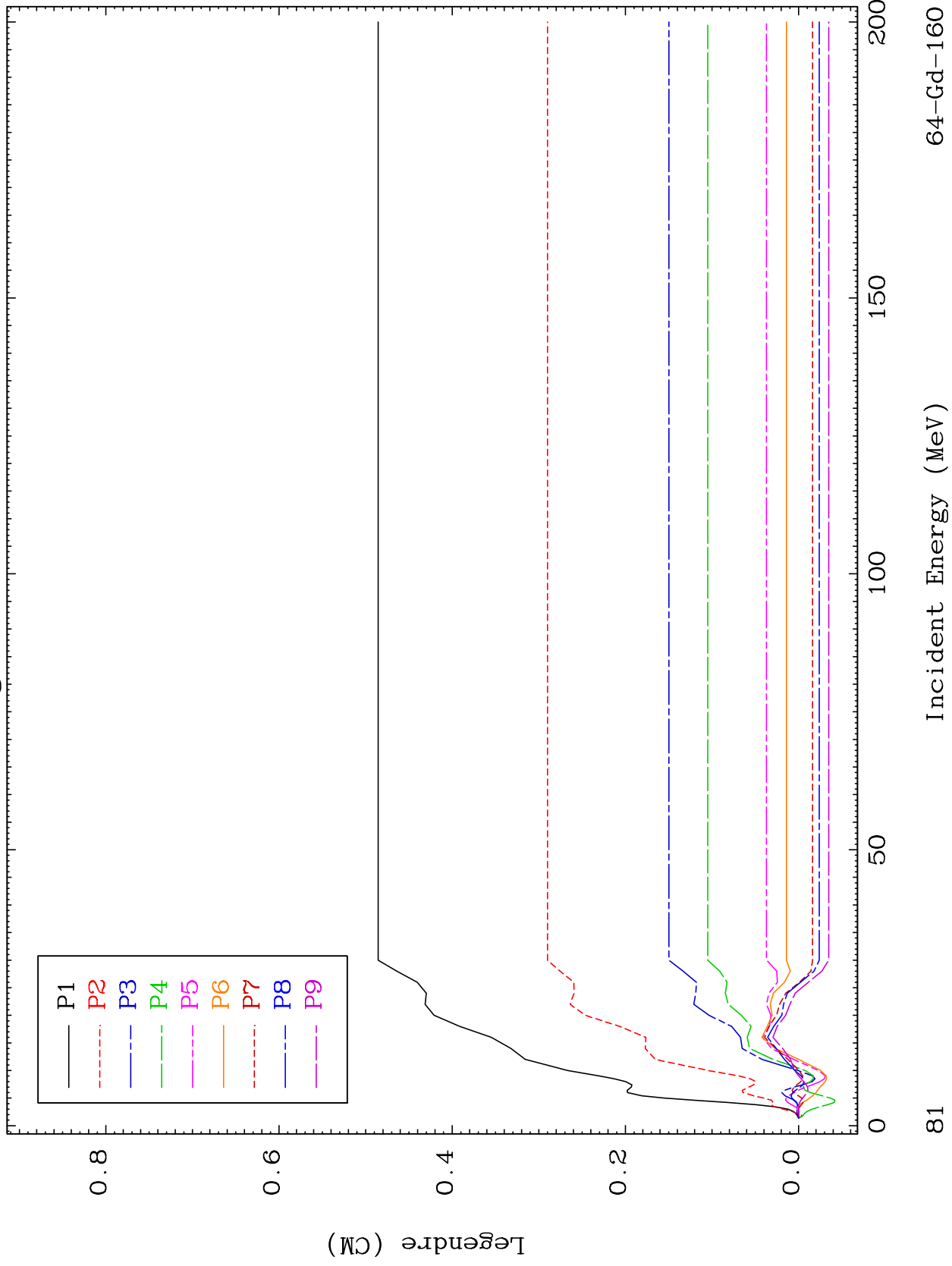
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160



81

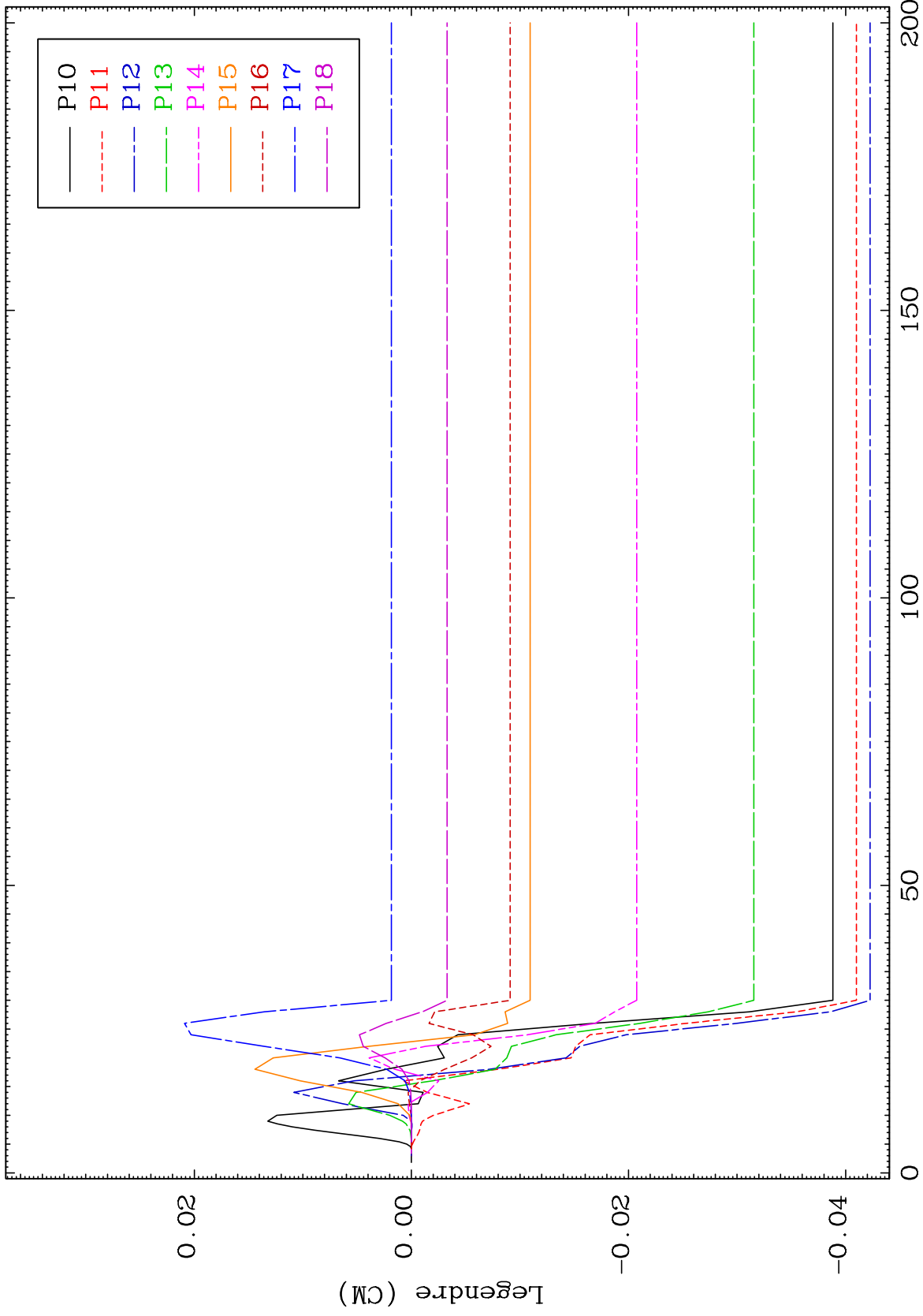
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160



82

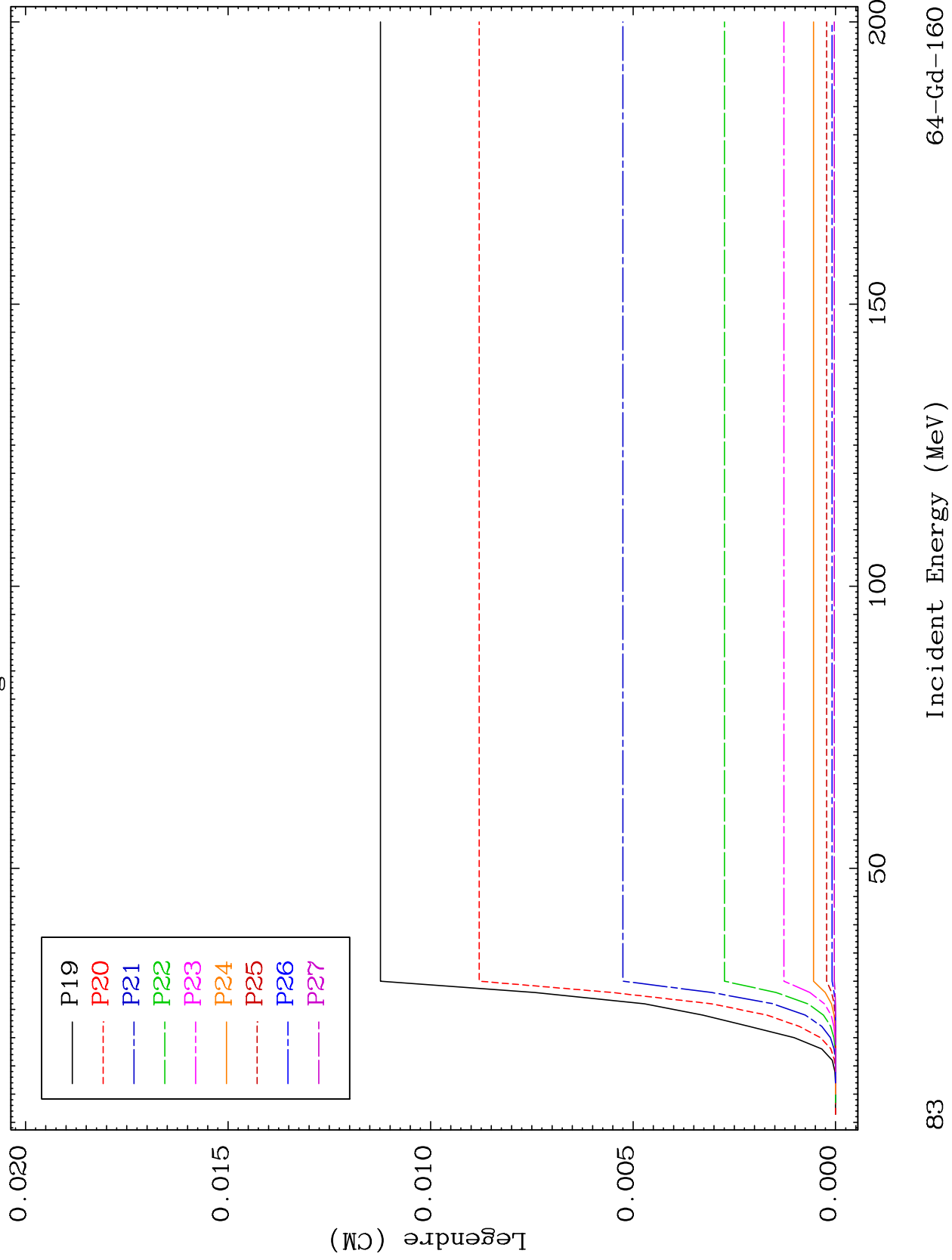
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160



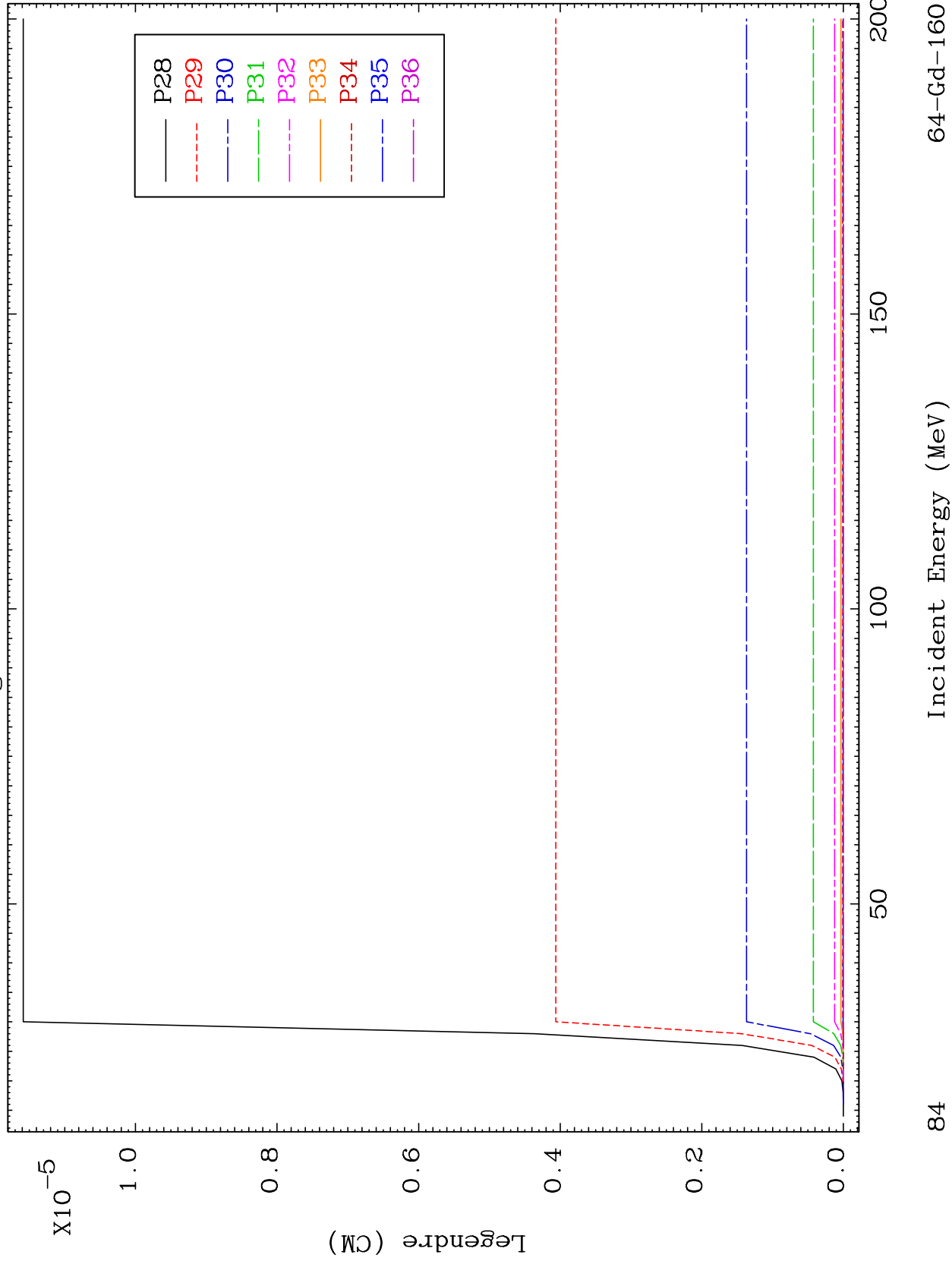
83

64-Gd-160

MAT 6449

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

64-Gd-160



84

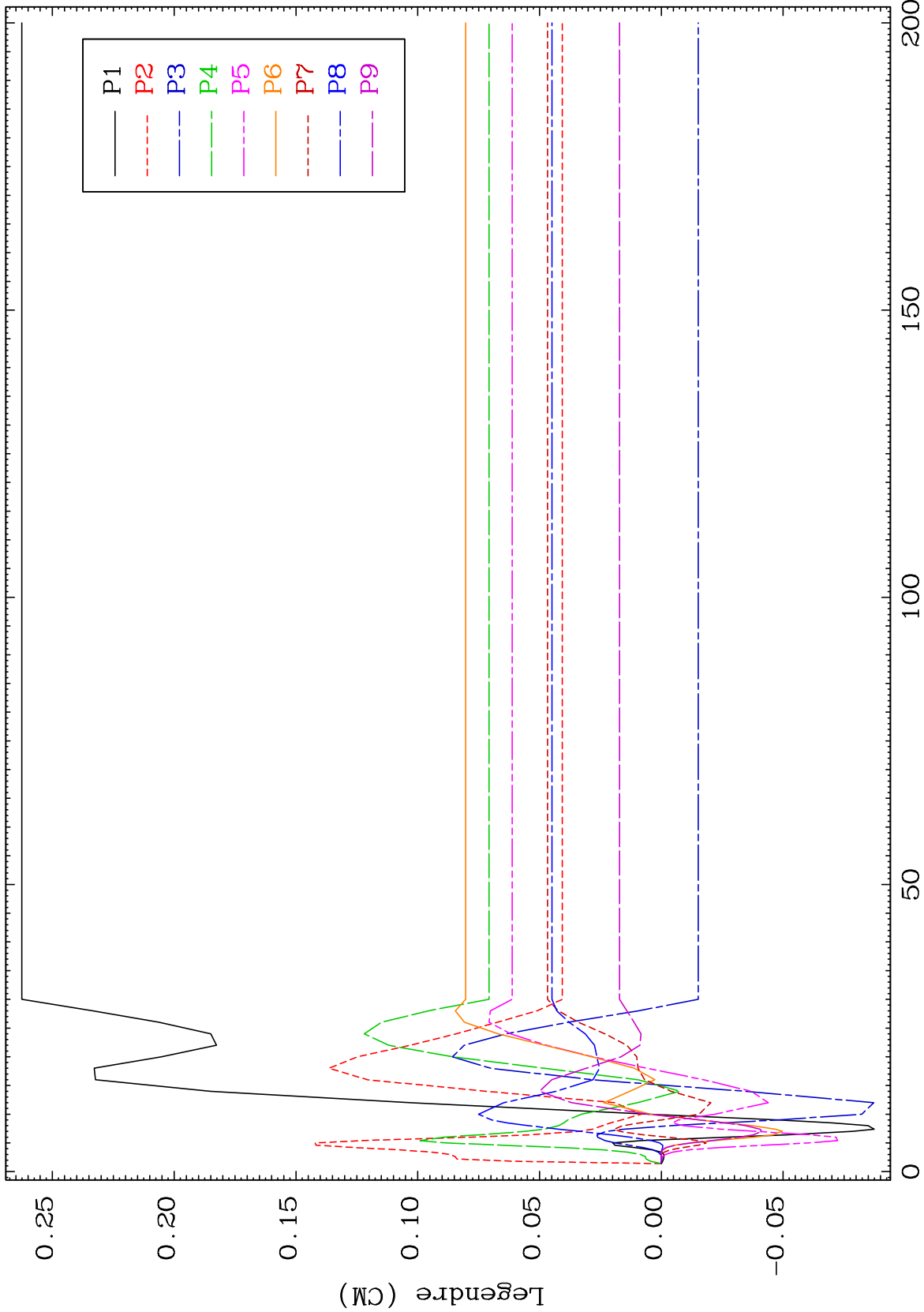
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160



85

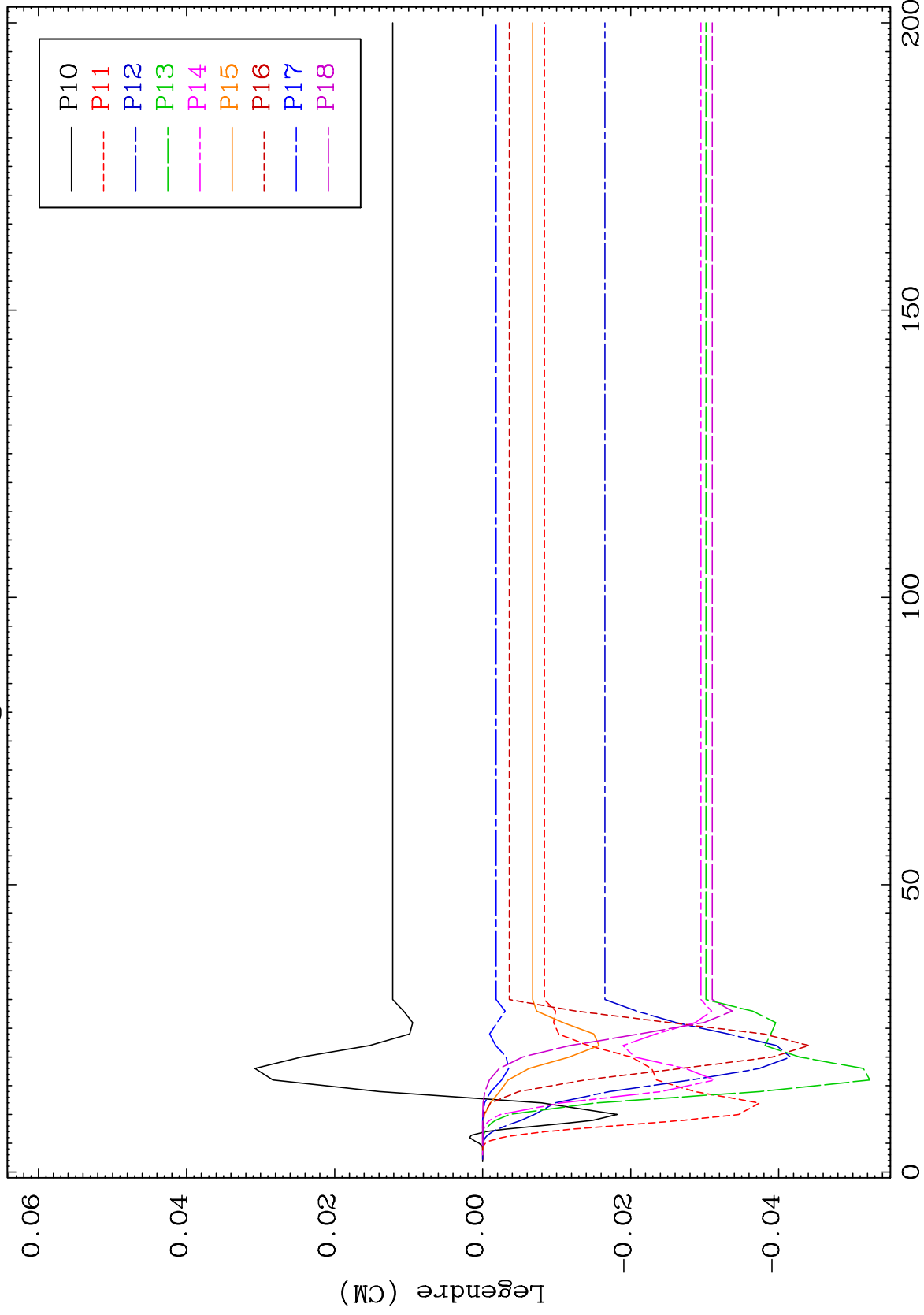
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160



86

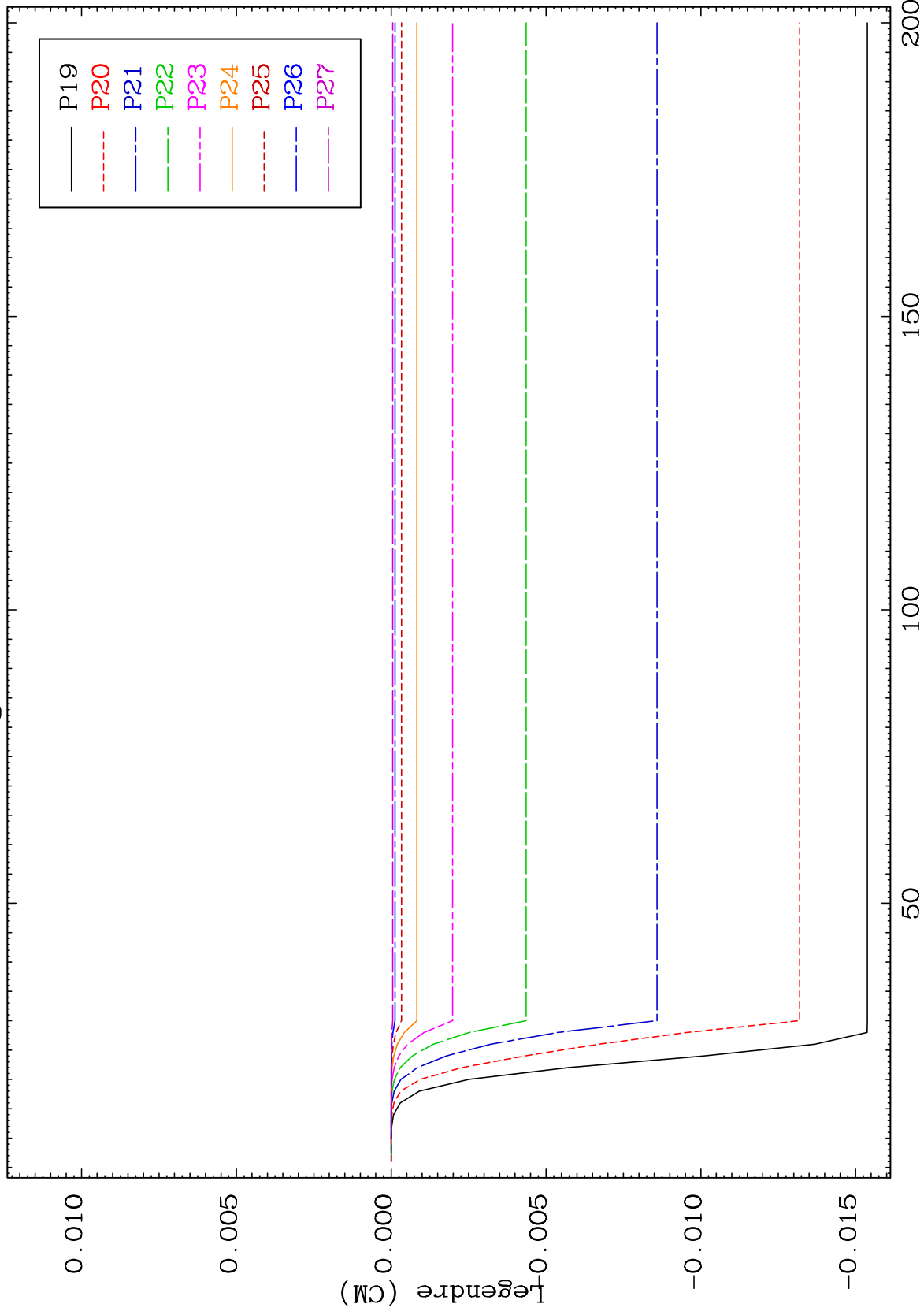
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160



87

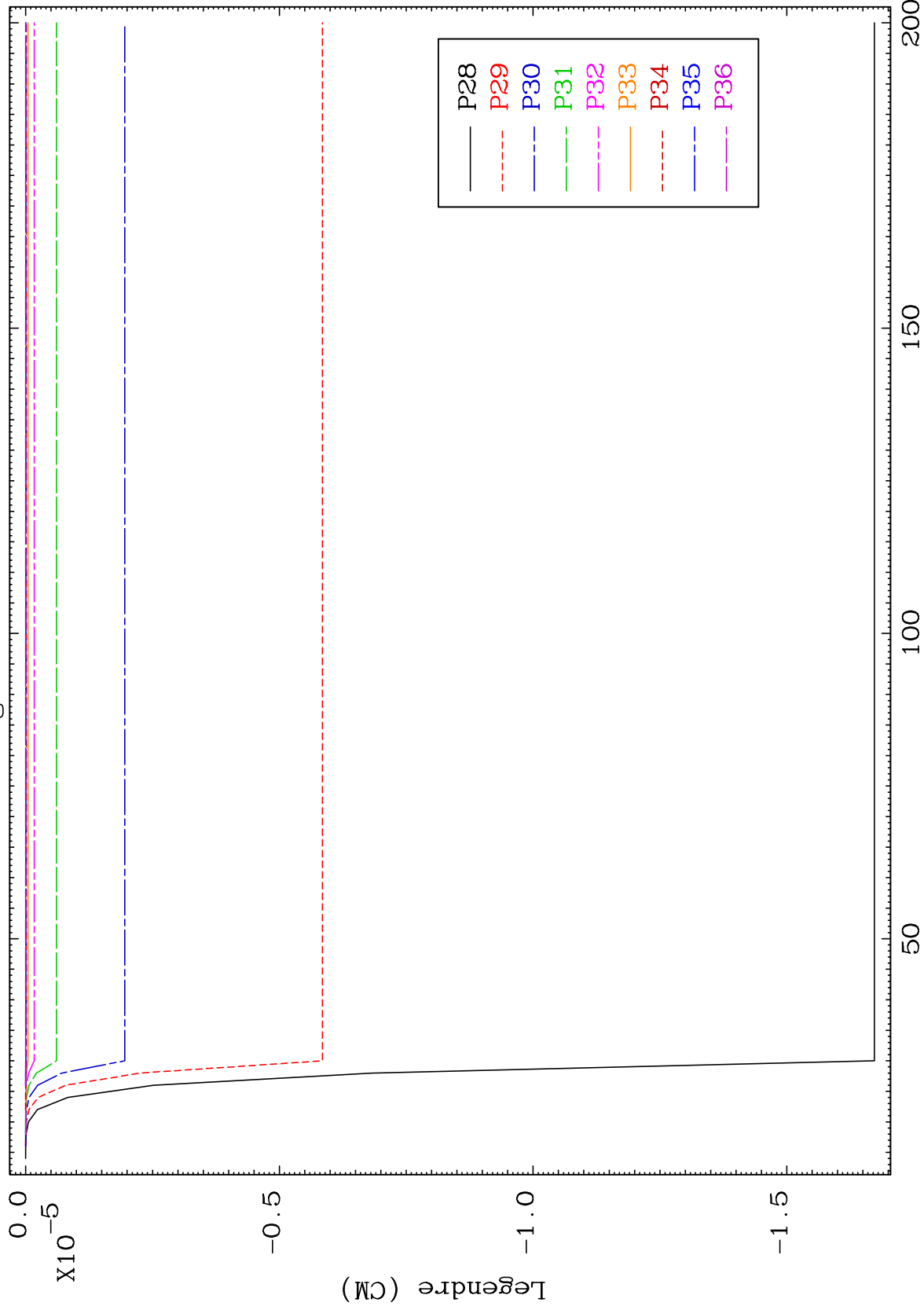
Incident Energy (MeV)

64-Gd-160

MAT 6449

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

64-Gd-160



88

Incident Energy (MeV)

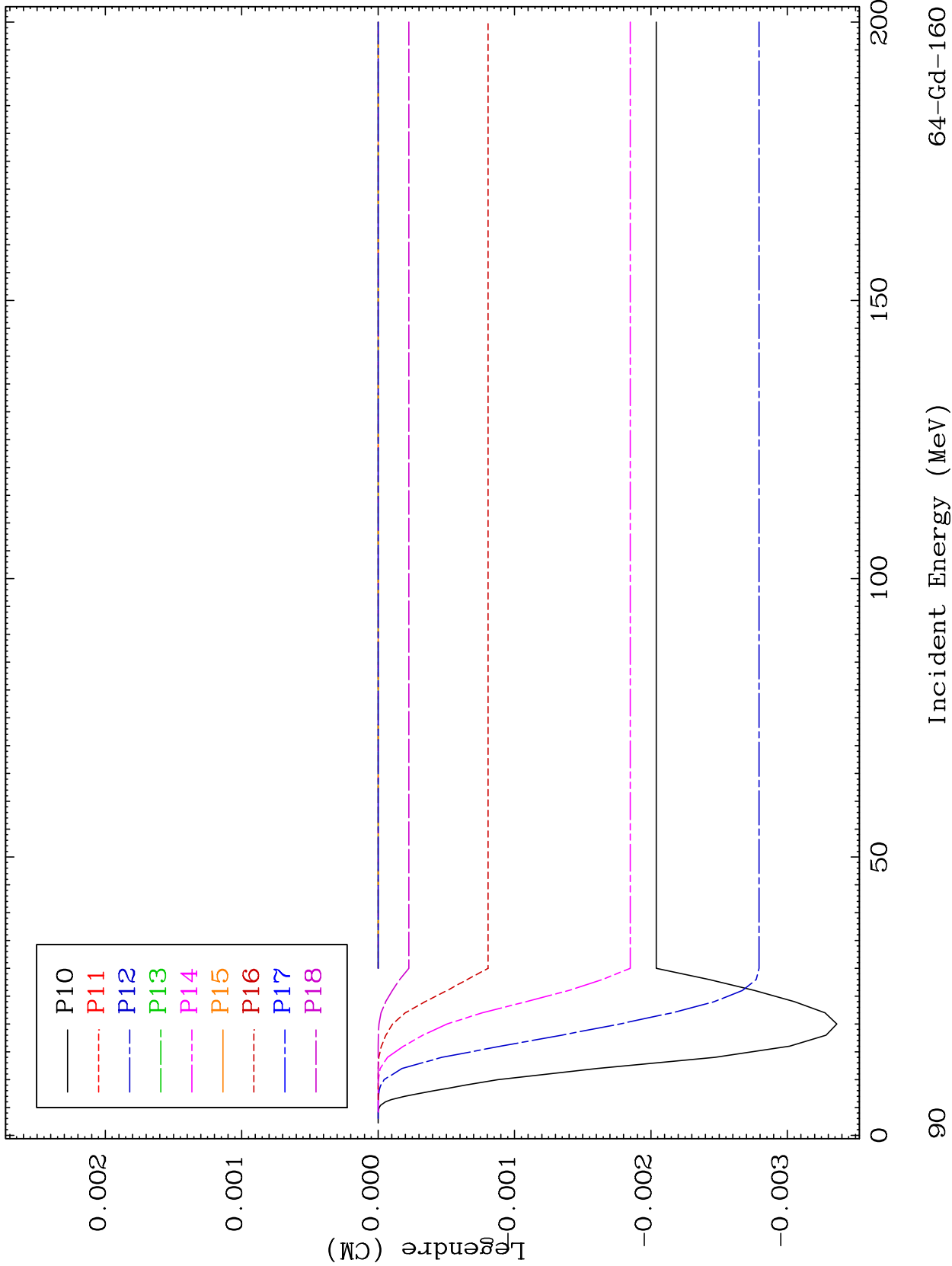
64-Gd-160



MAT 6449

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

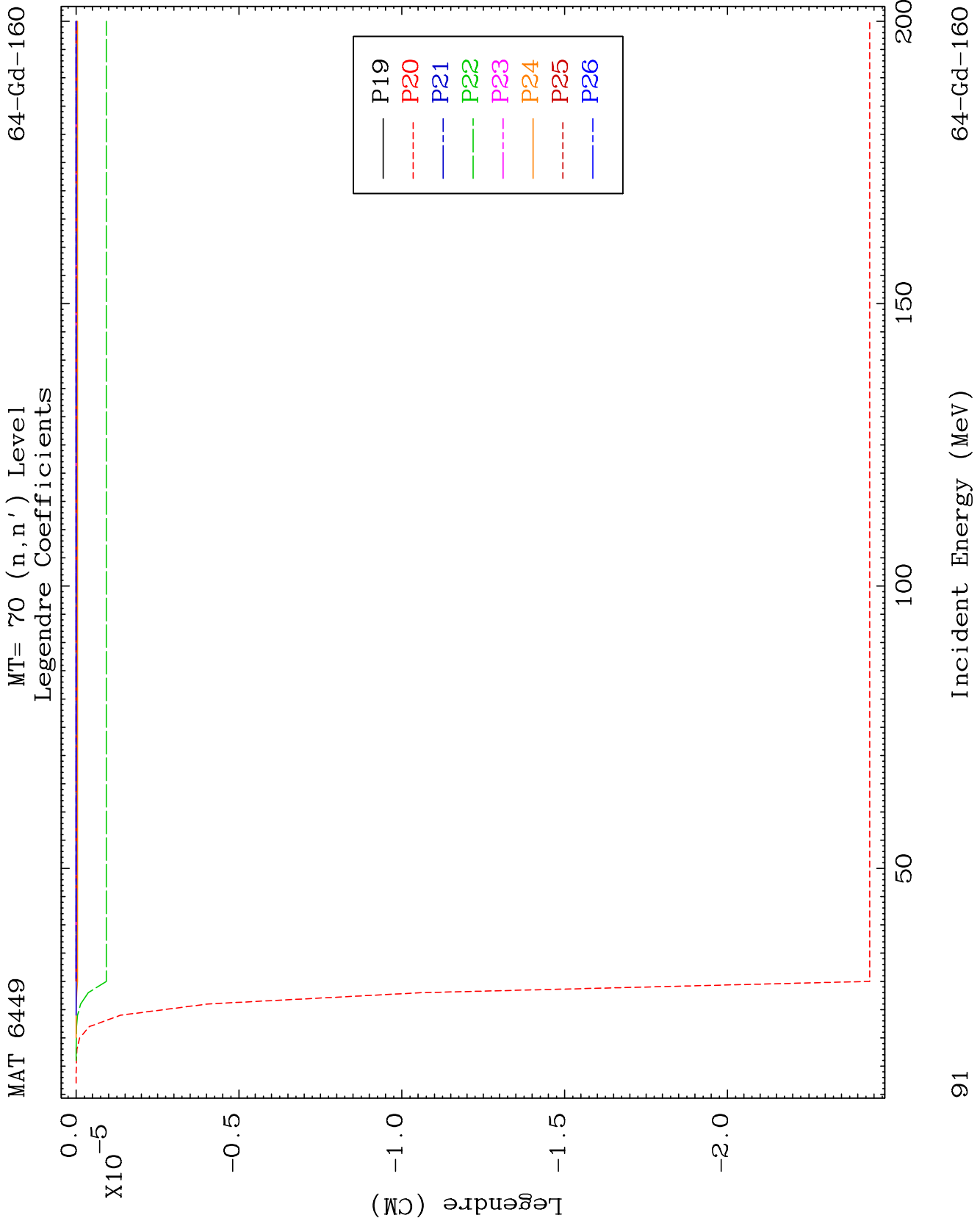
64-Gd-160

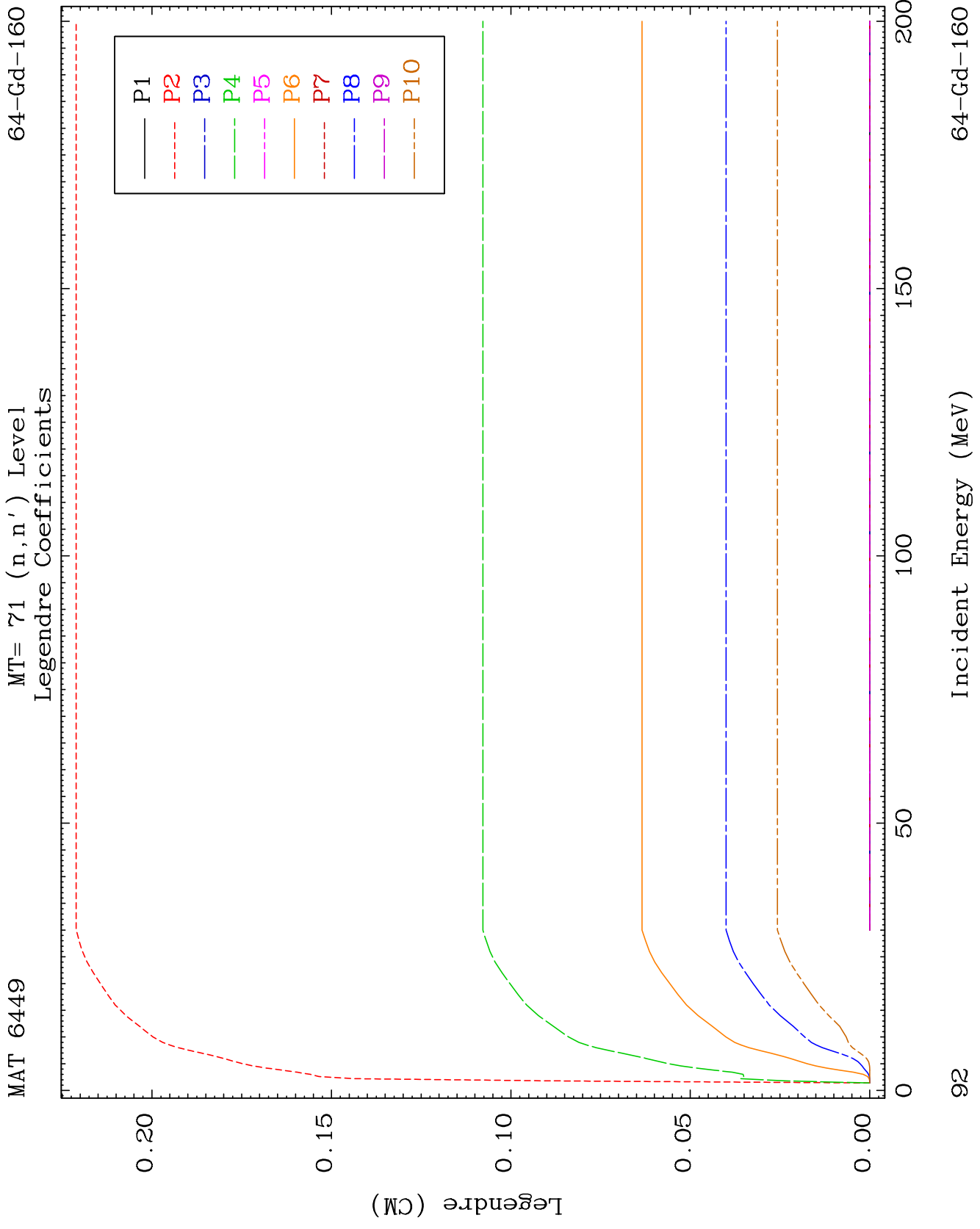


64-Gd-160

Incident Energy (MeV)

90

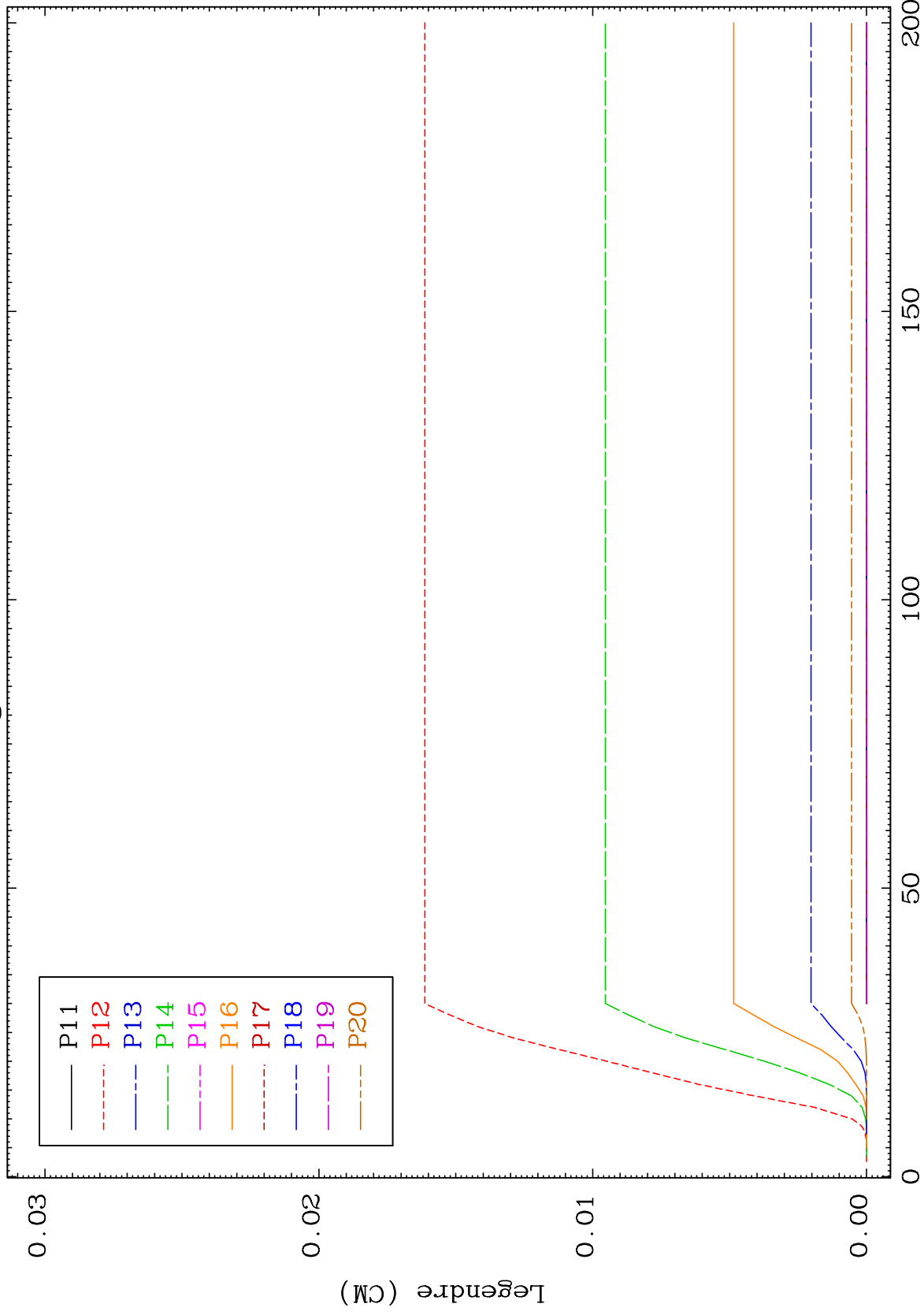




MAT 6449

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

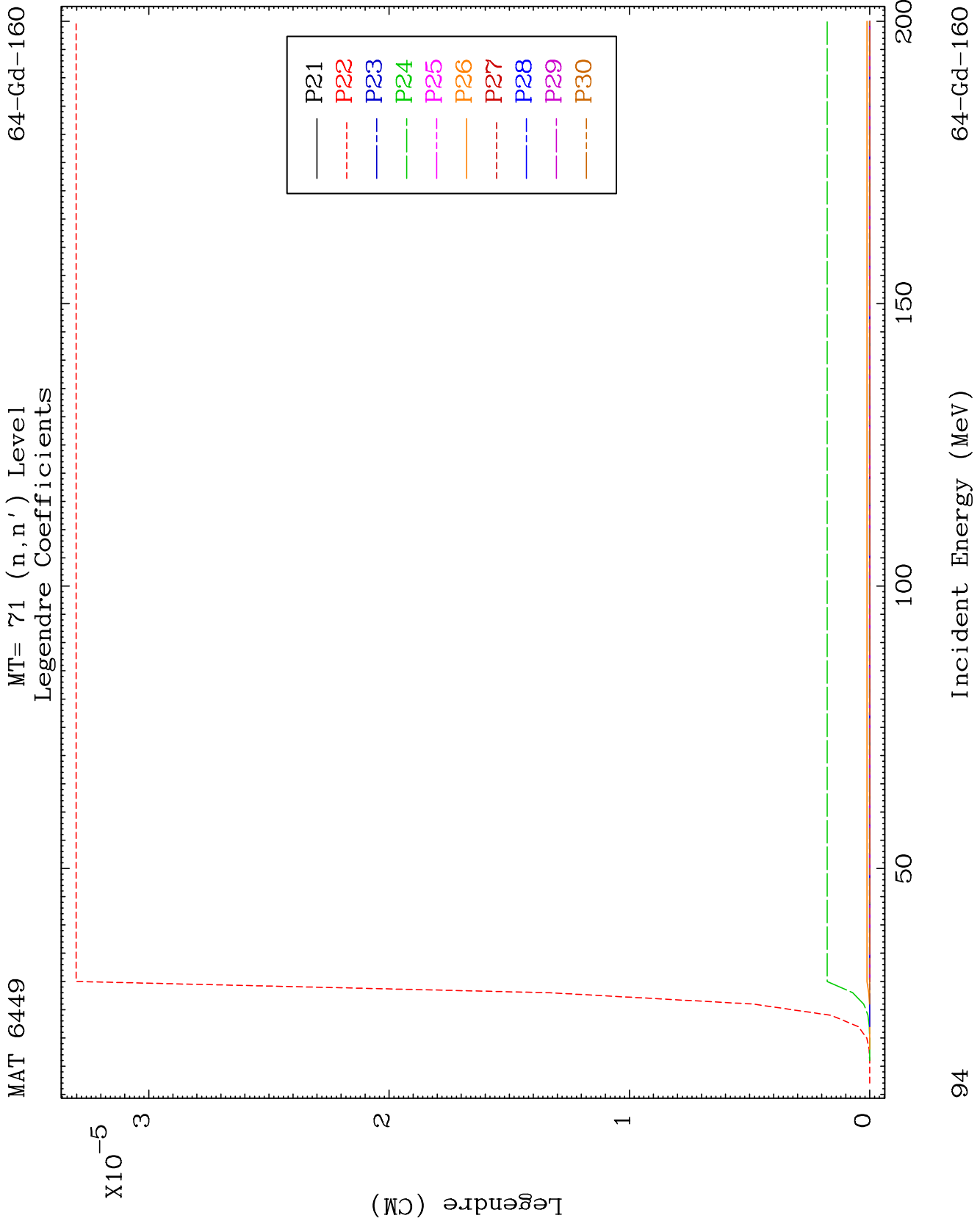
64-Gd-160



93

Incident Energy (MeV)

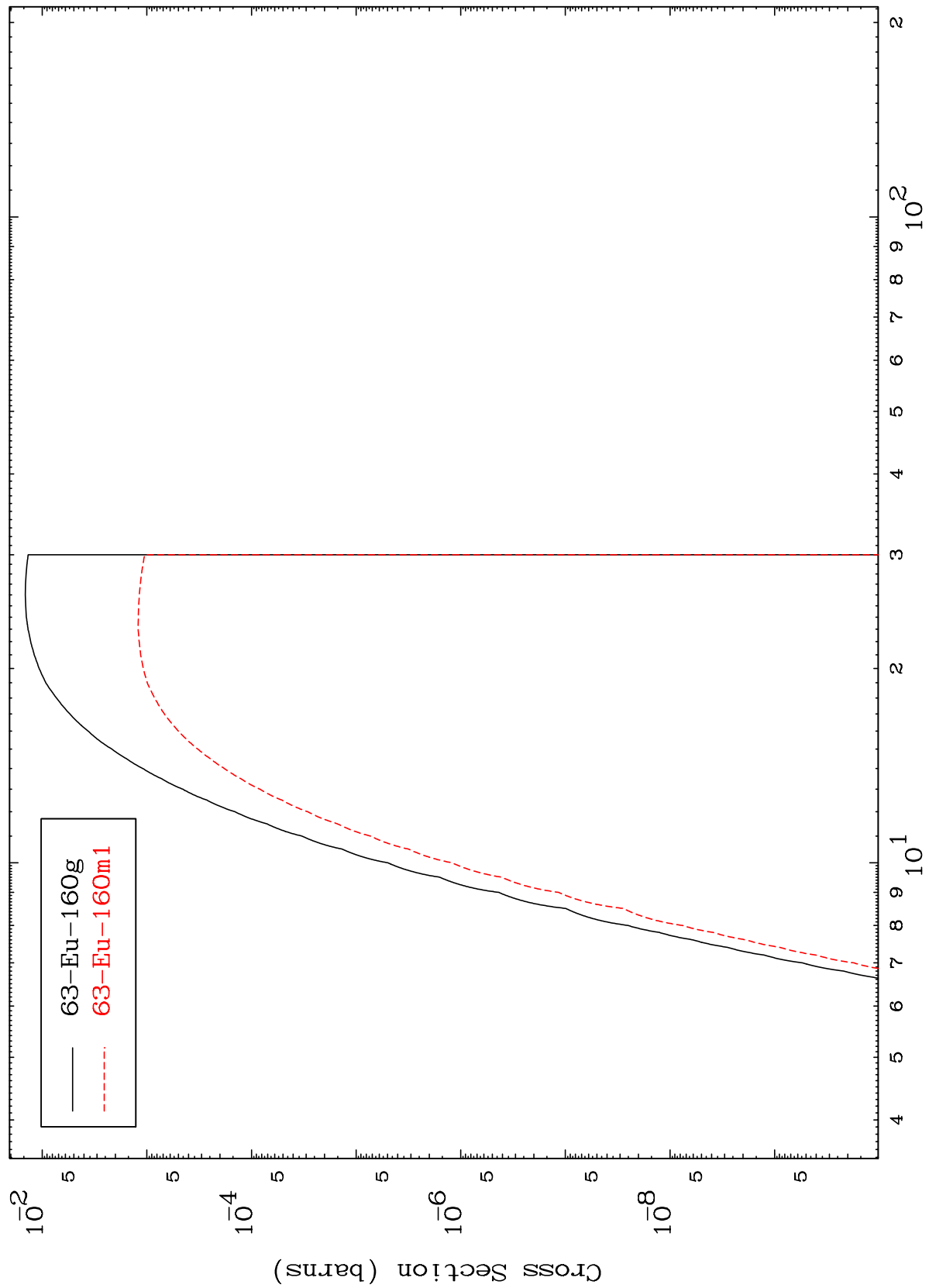
64-Gd-160



MAT 6449

64-Gd-160

(n,p)  
Radionuclide Production Cross Section



95

Incident Energy (MeV)

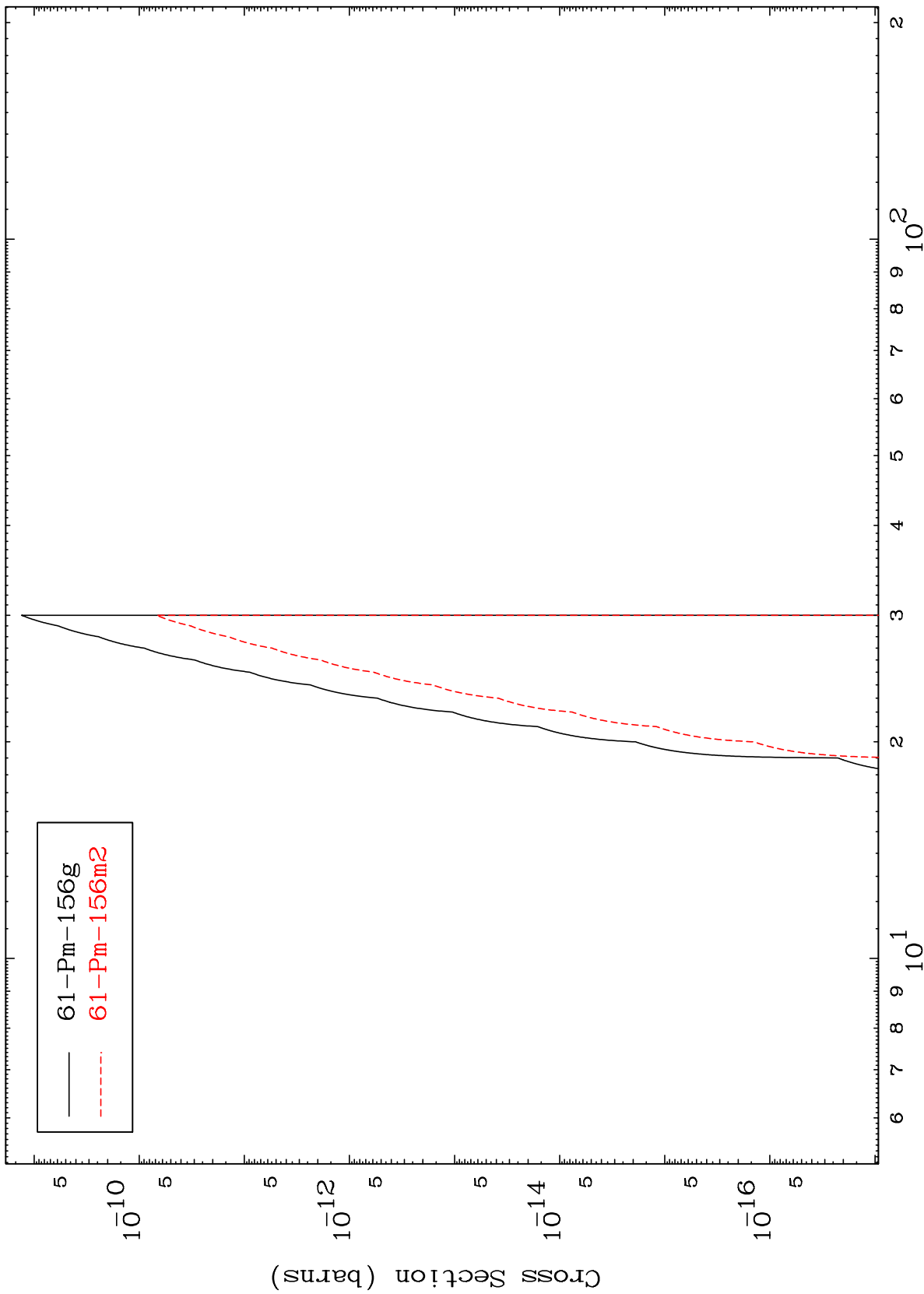
64-Gd-160

MAT 6449

(n,p)  $\alpha$

64-Gd-160

Radionuclide Production Cross Section



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

96

Incident Energy (MeV)

64-Gd-160