

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

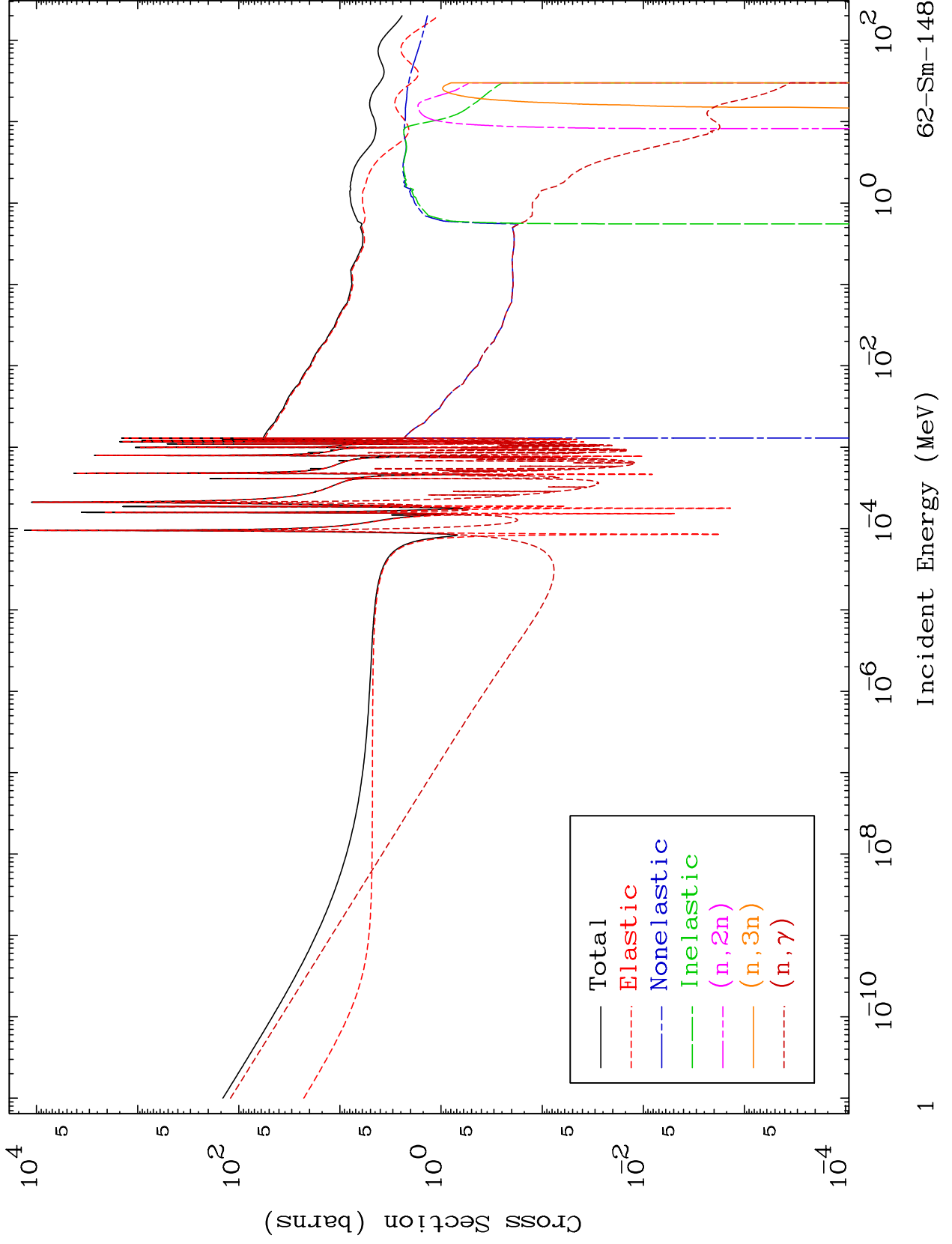
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6237

Neutron Major
293 Kelvin Cross Sections

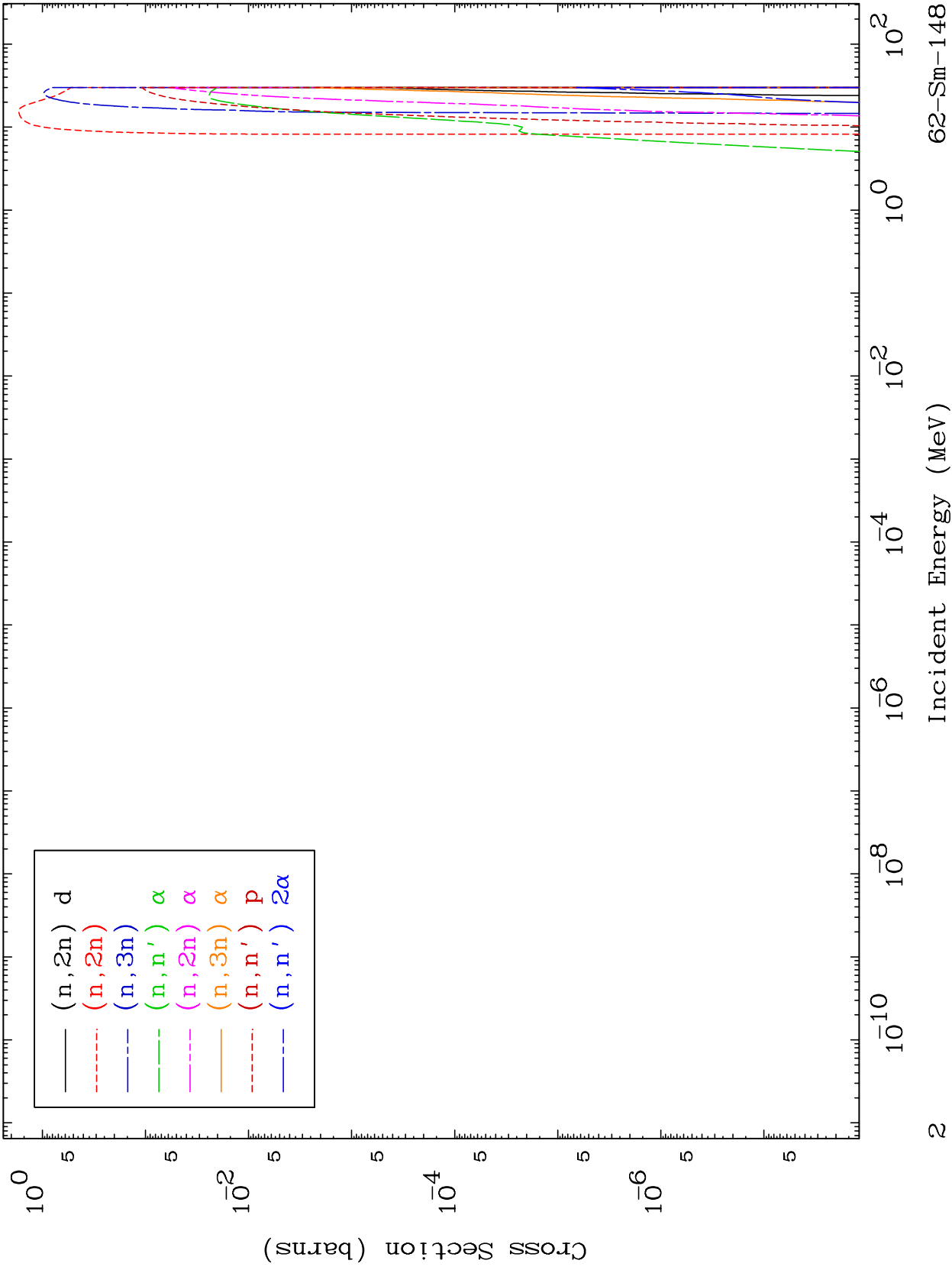
62-Sm-148



MAT 6237

Neutron Absorption
293 Kelvin Cross Sections

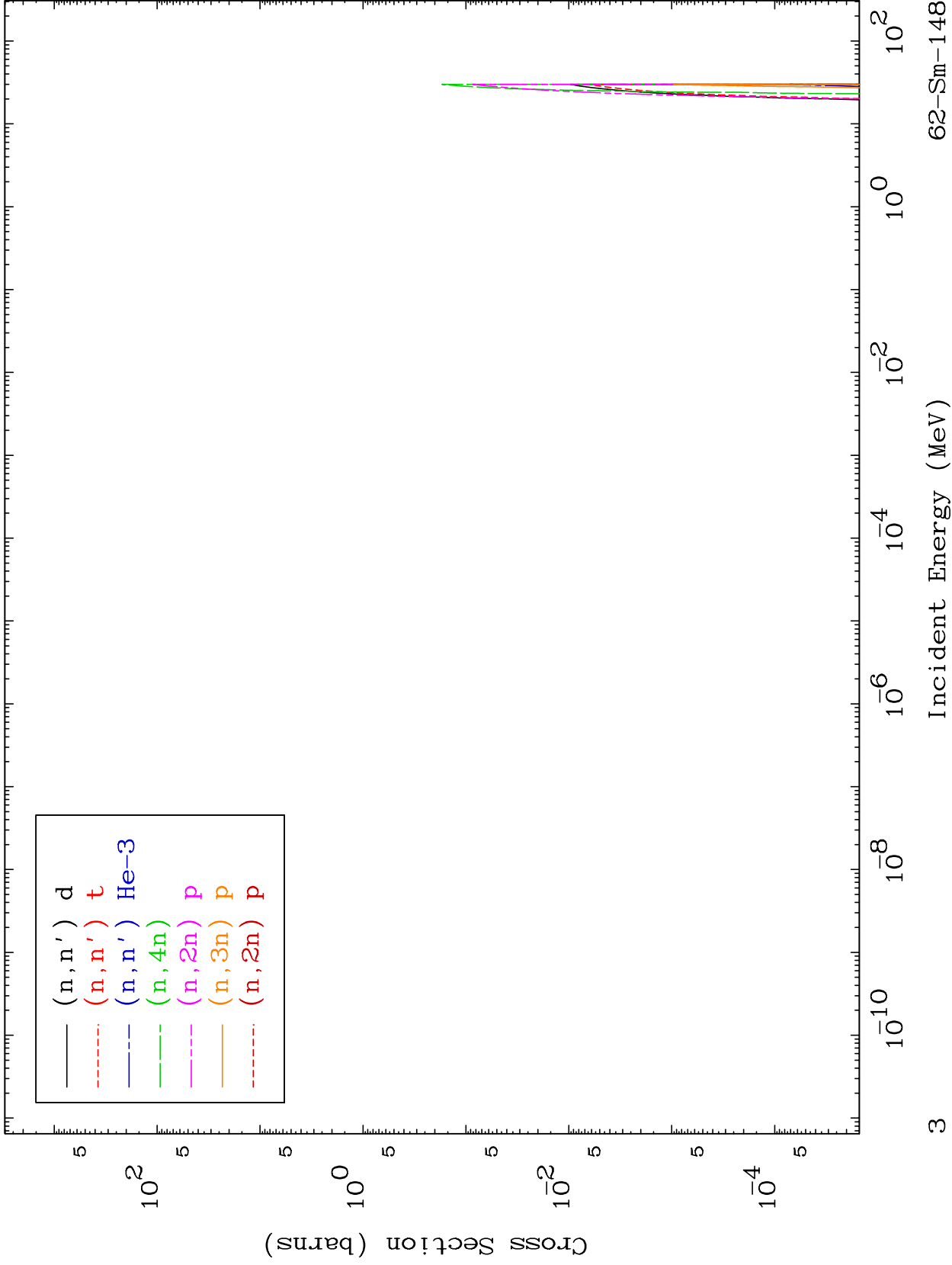
62-Sm-148



MAT 6237

Neutron Absorption
293 Kelvin Cross Sections

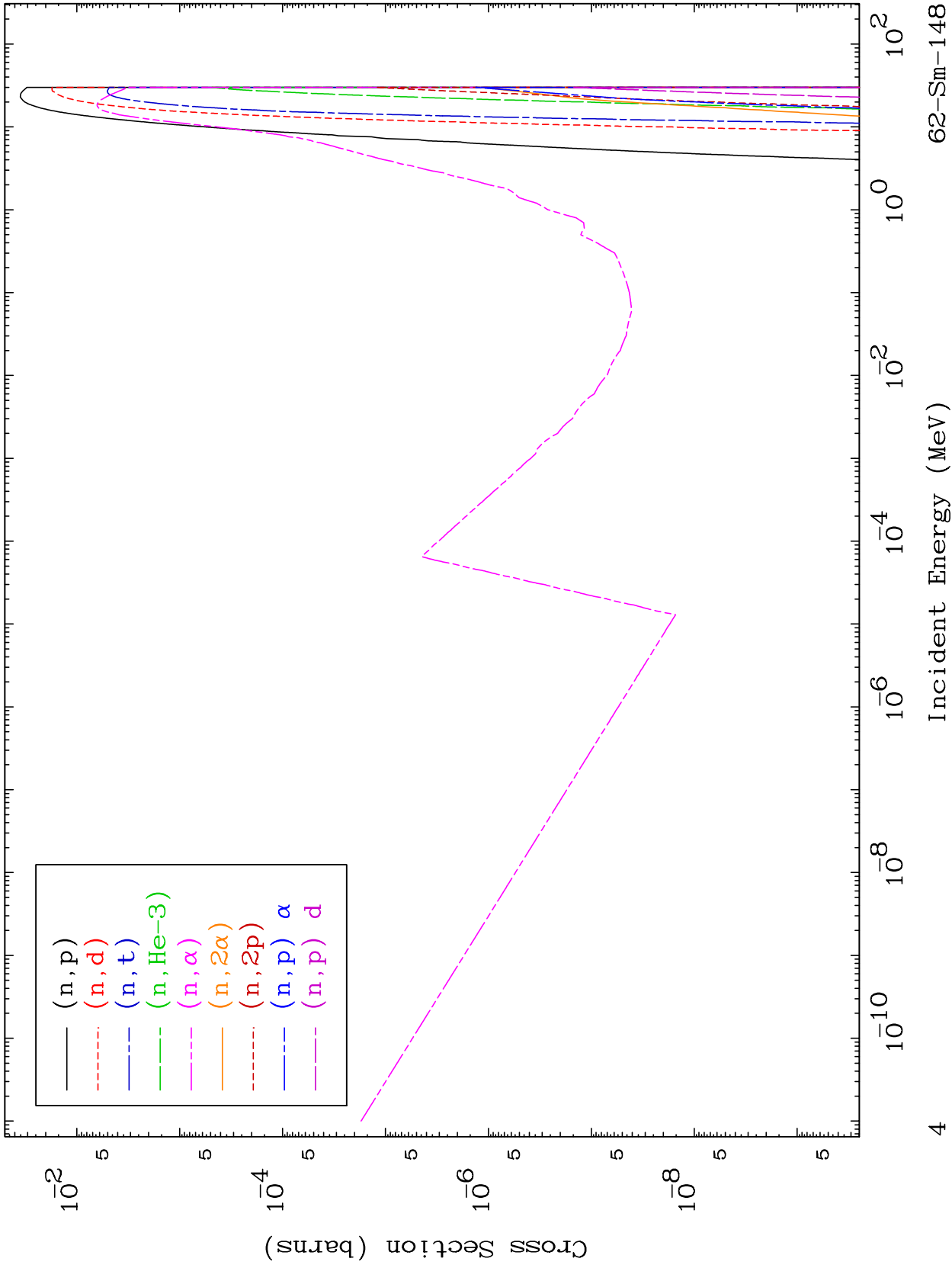
62-Sm-148



MAT 6237

Neutron Absorption
293 Kelvin Cross Sections

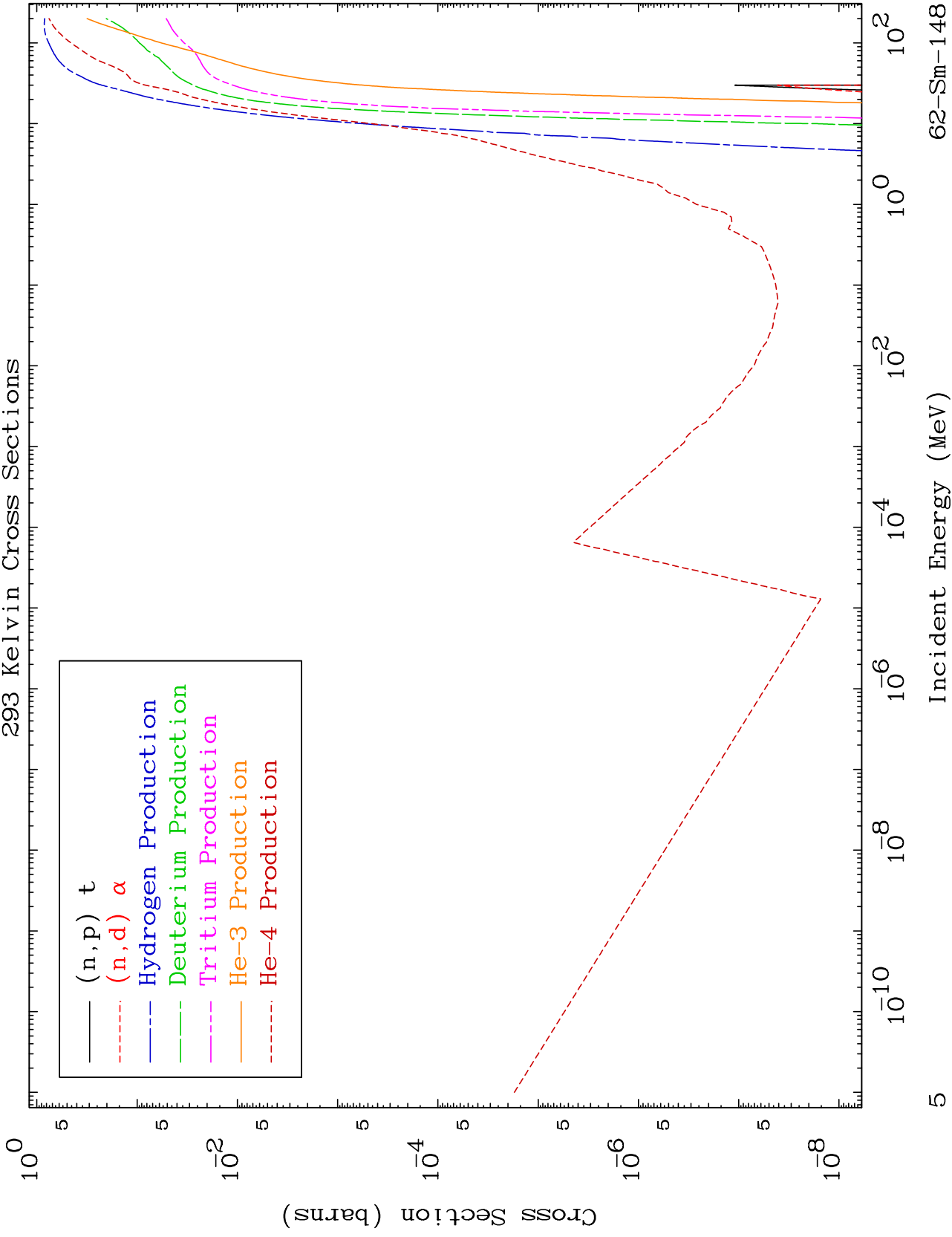
62-Sm-148



MAT 6237

Neutron Absorption
293 Kelvin Cross Sections

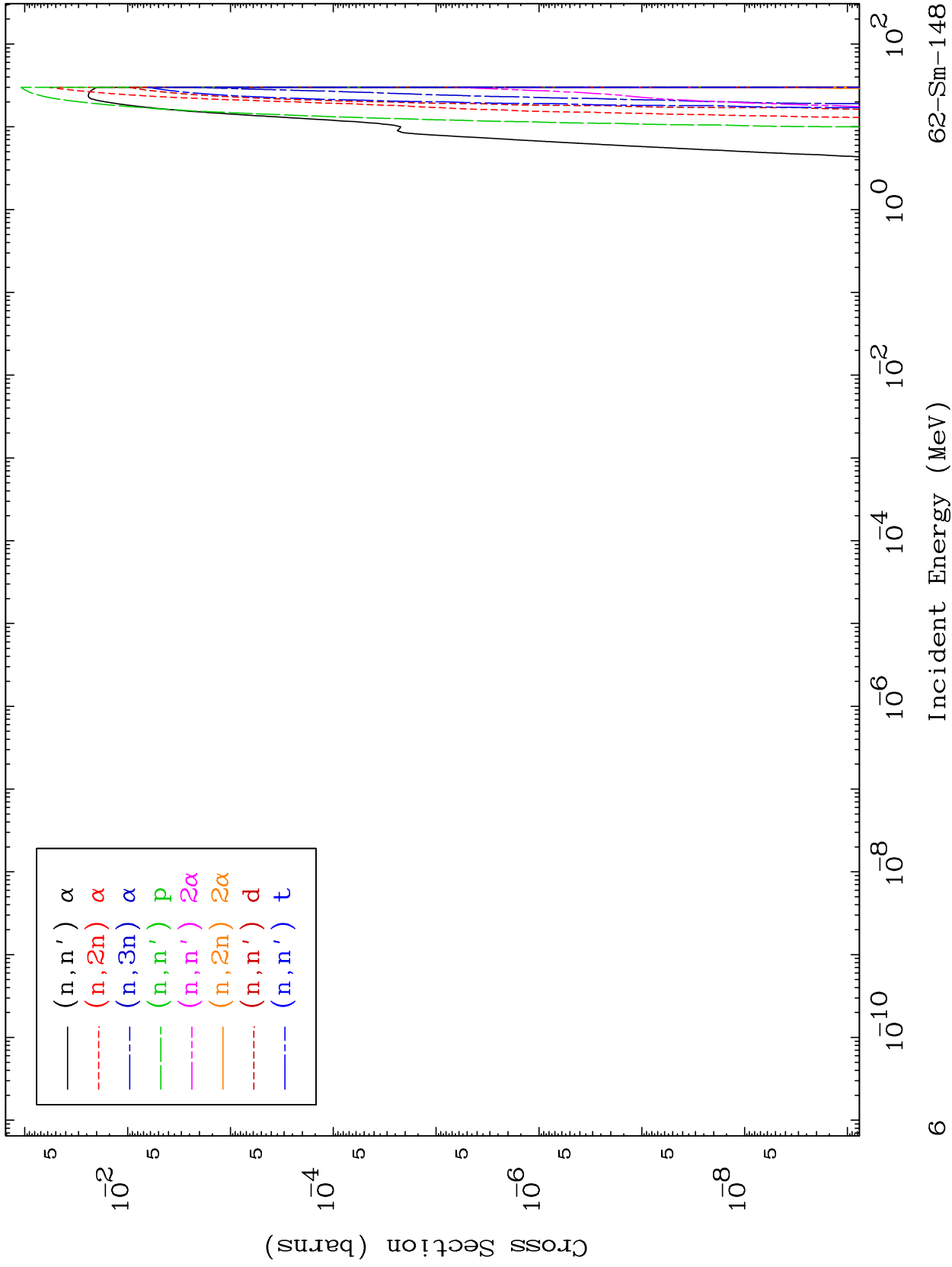
62-Sm-148



MAT 6237

Charged Particle
293 Kelvin Cross Sections

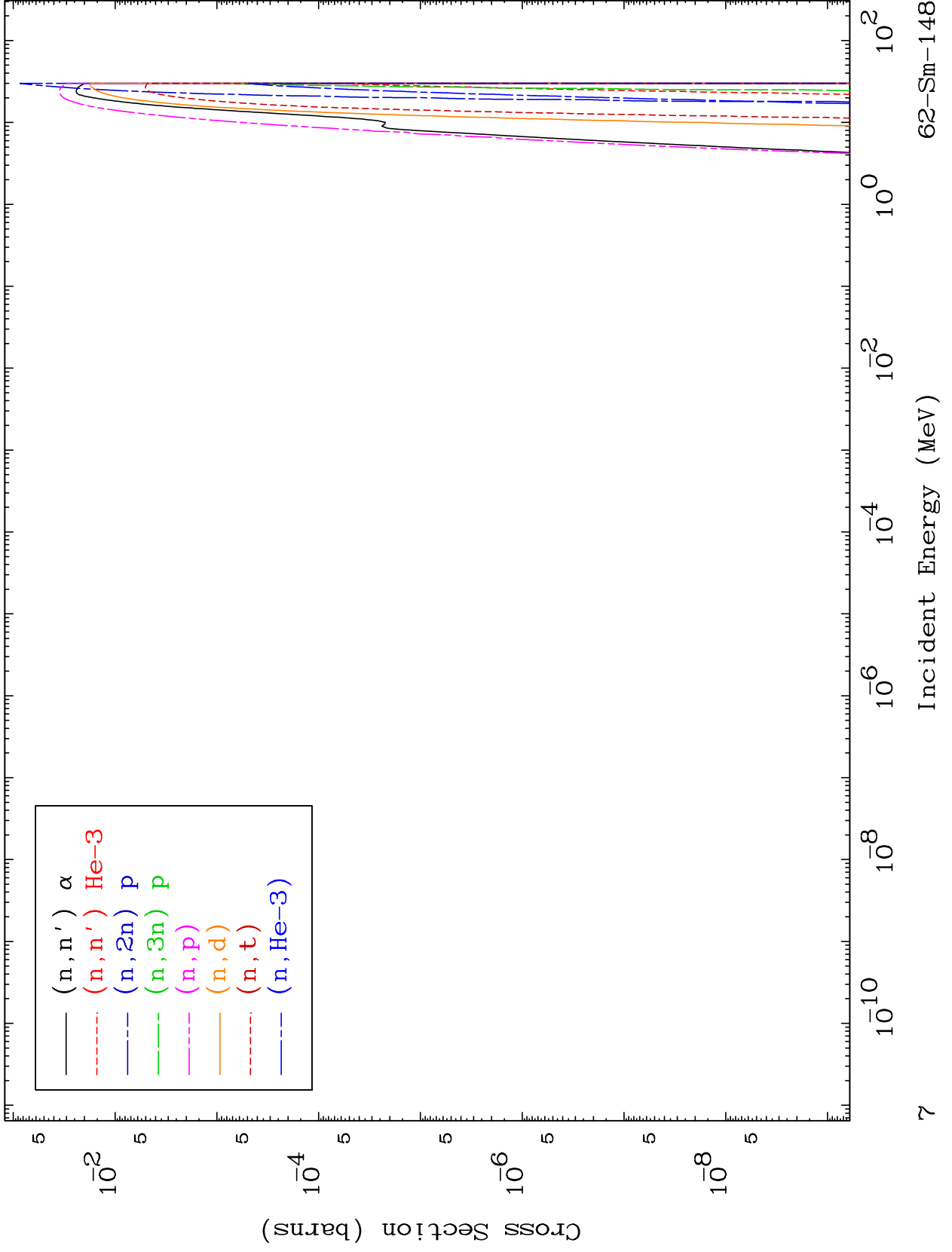
62-Sm-148



MAT 6237

Charged Particle
293 Kelvin Cross Sections

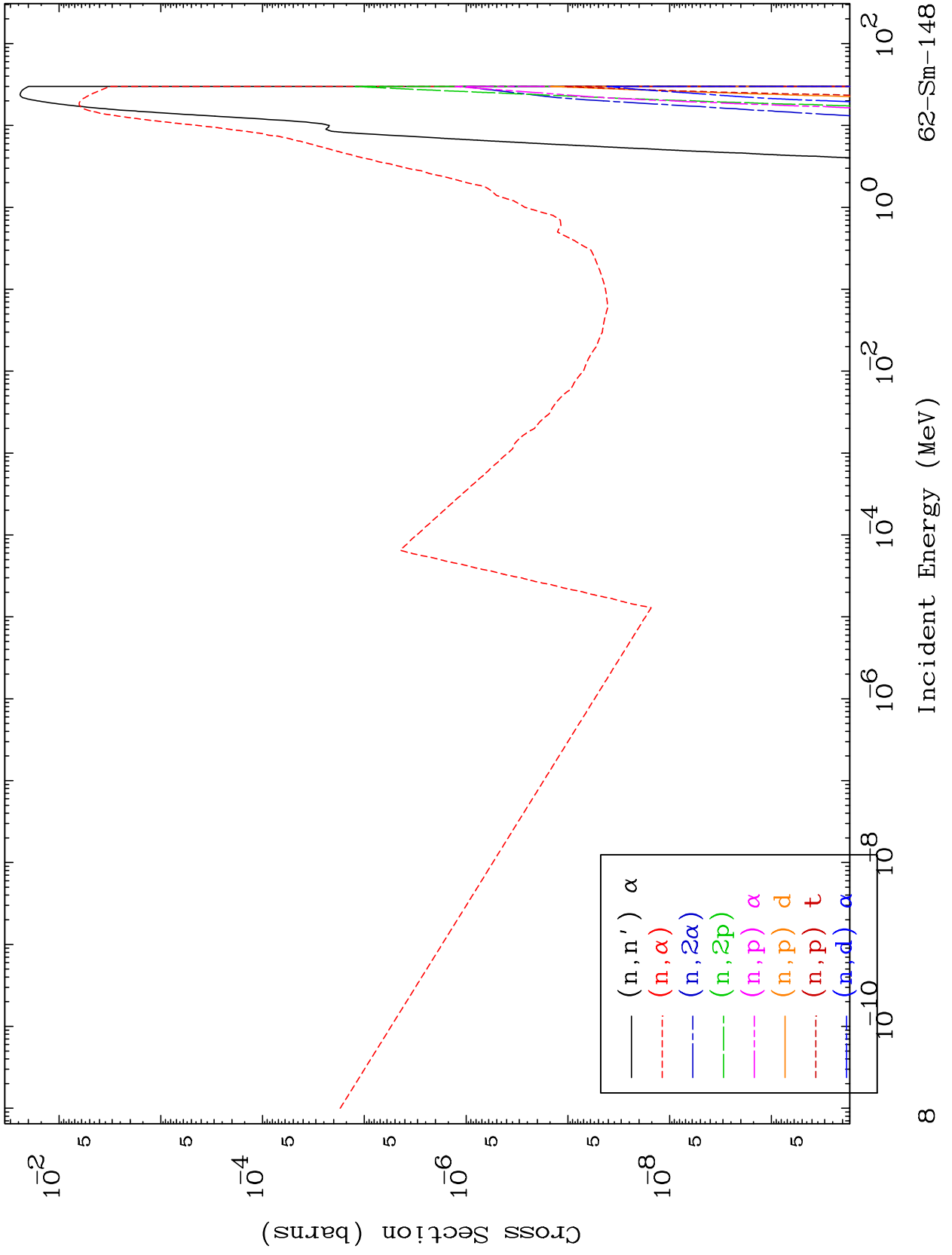
62-Sm-148



MAT 6237

Charged Particle
293 Kelvin Cross Sections

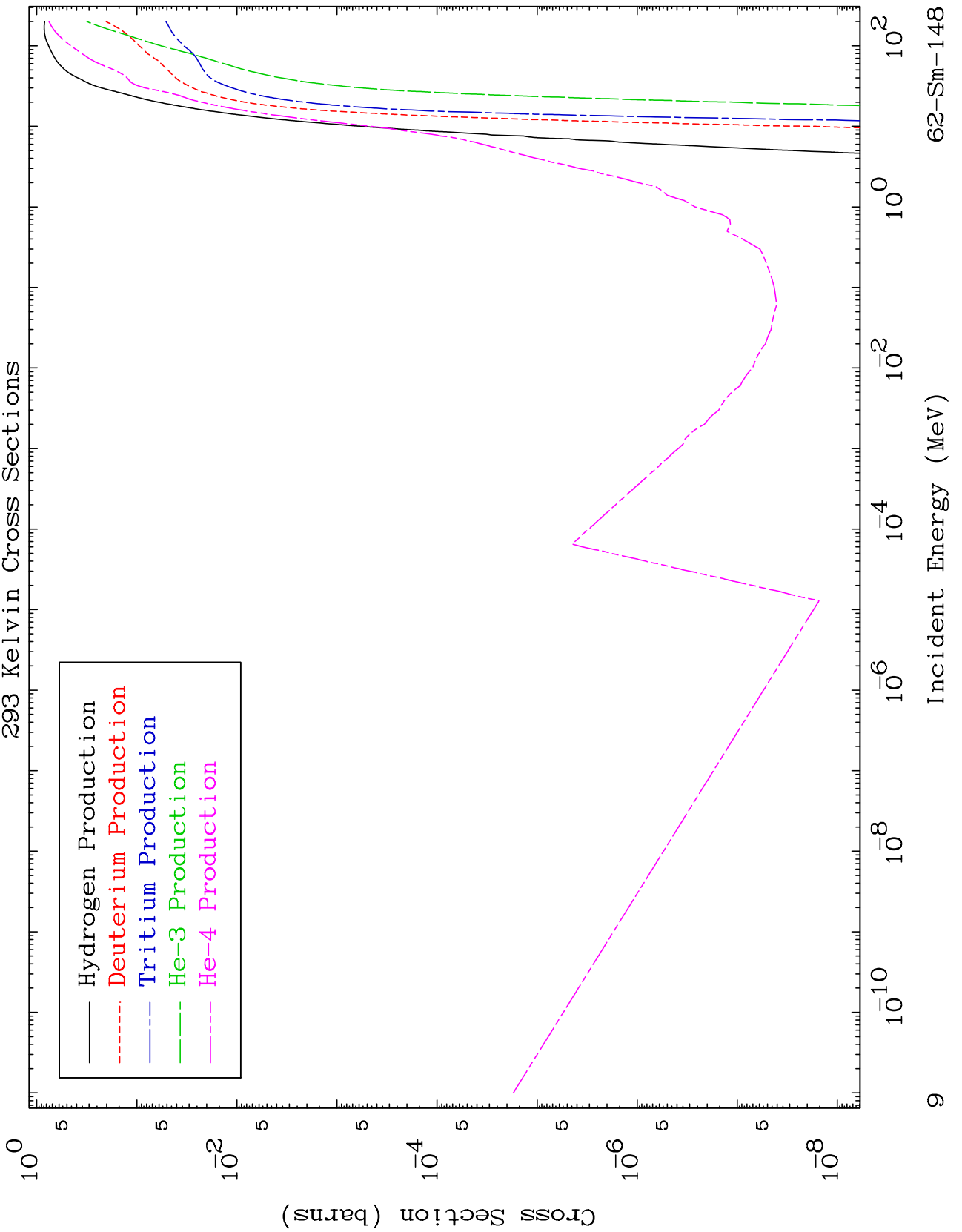
62-Sm-148



MAT 6237

Particle Production
293 Kelvin Cross Sections

62-Sm-148

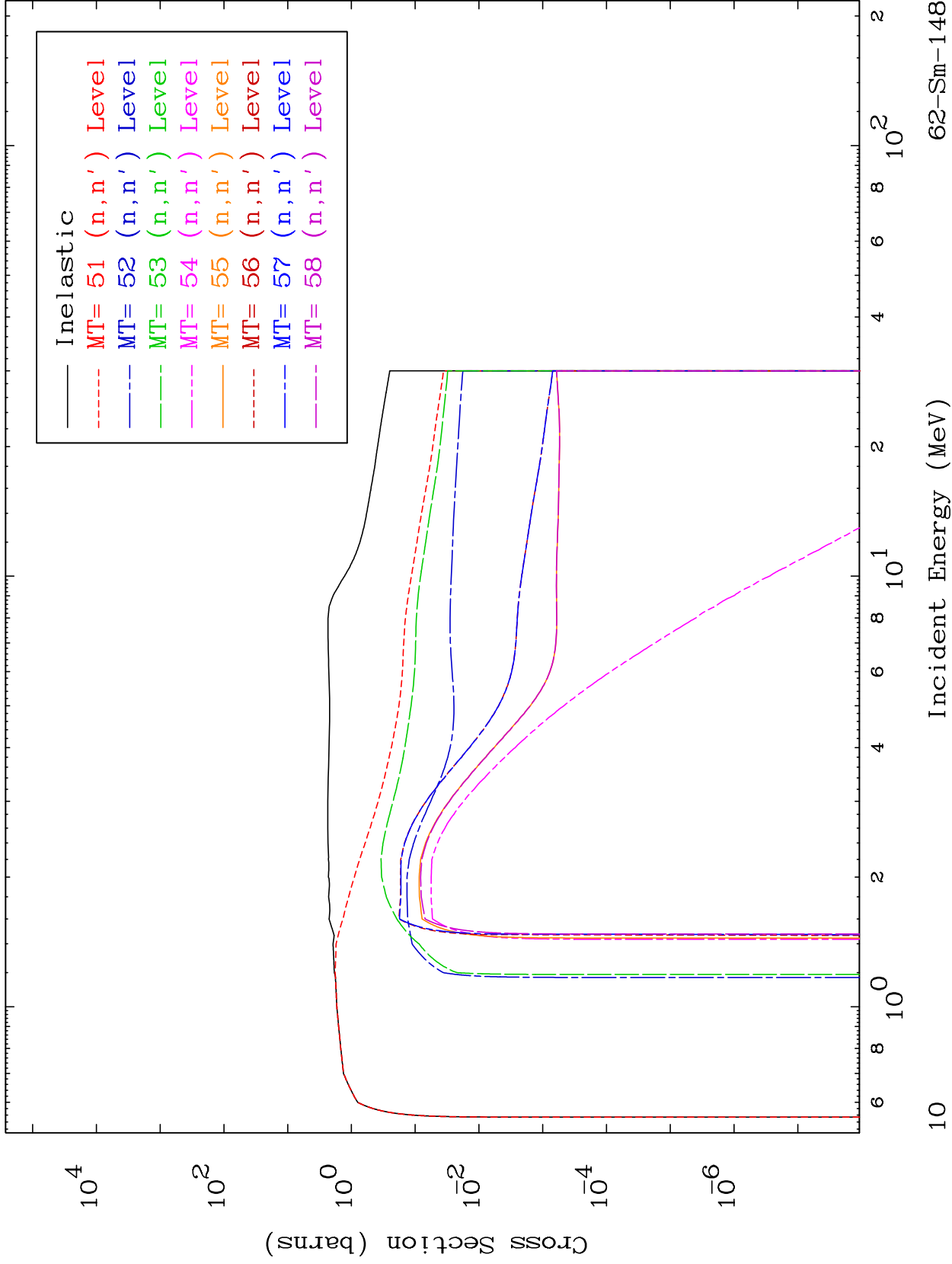


MAT 6237

(n,n') Levels

62-Sm-148

293 Kelvin Cross Sections



10

Incident Energy (MeV)

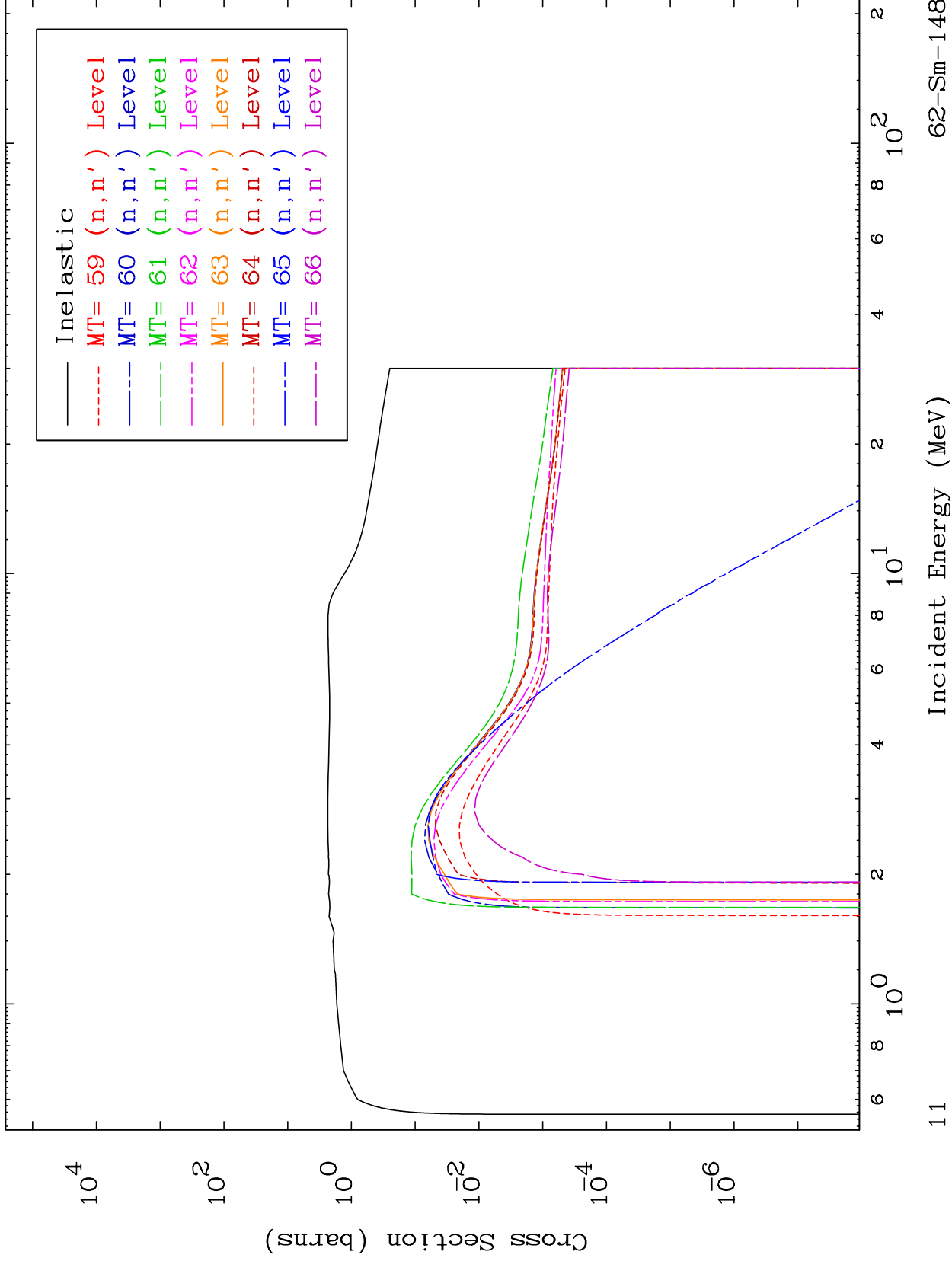
62-Sm-148

MAT 6237

(n,n') Levels

62-Sm-148

293 Kelvin Cross Sections

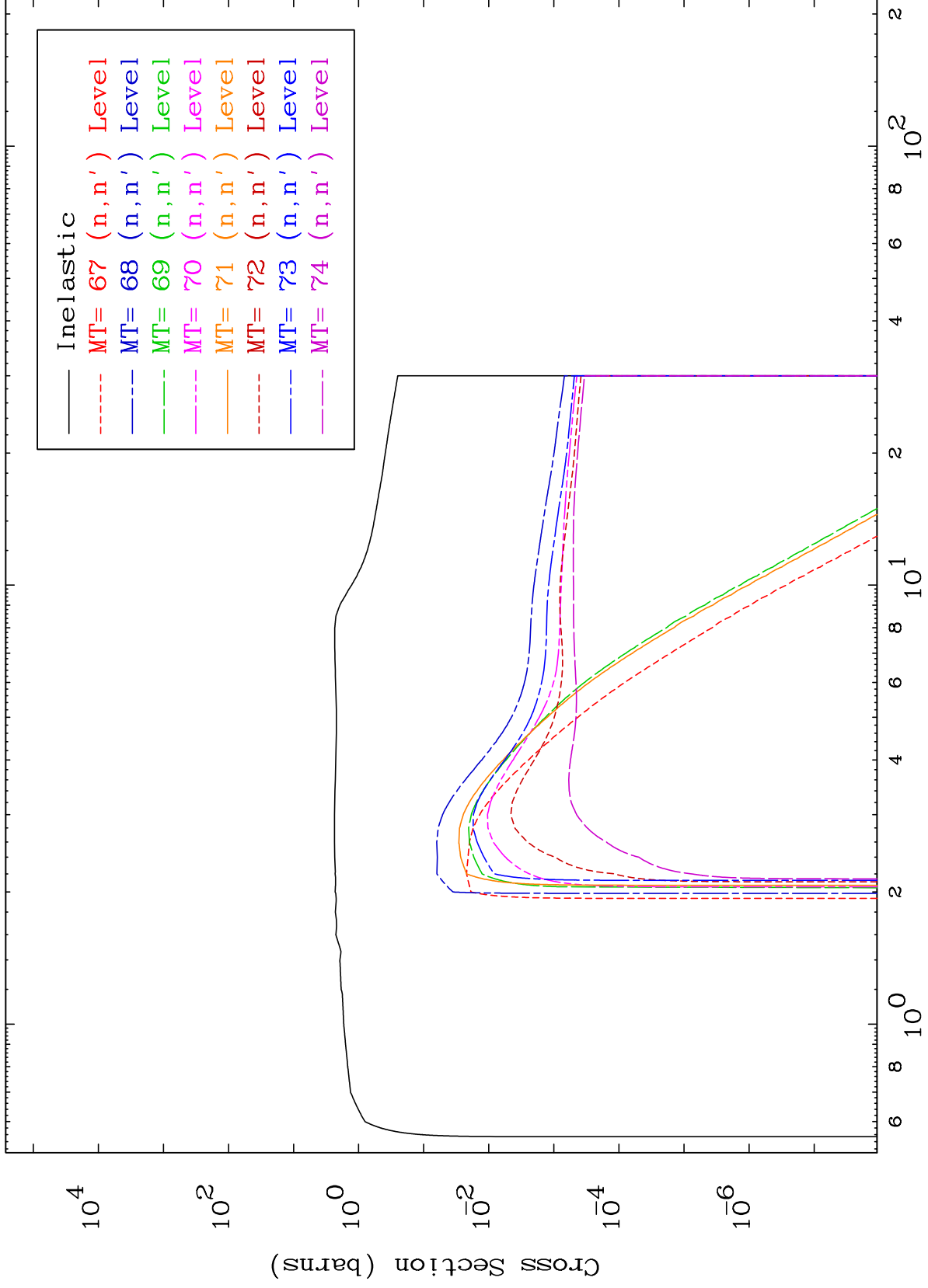


MAT 6237

(n,n') Levels

62-Sm-148

293 Kelvin Cross Sections



12

Incident Energy (MeV)

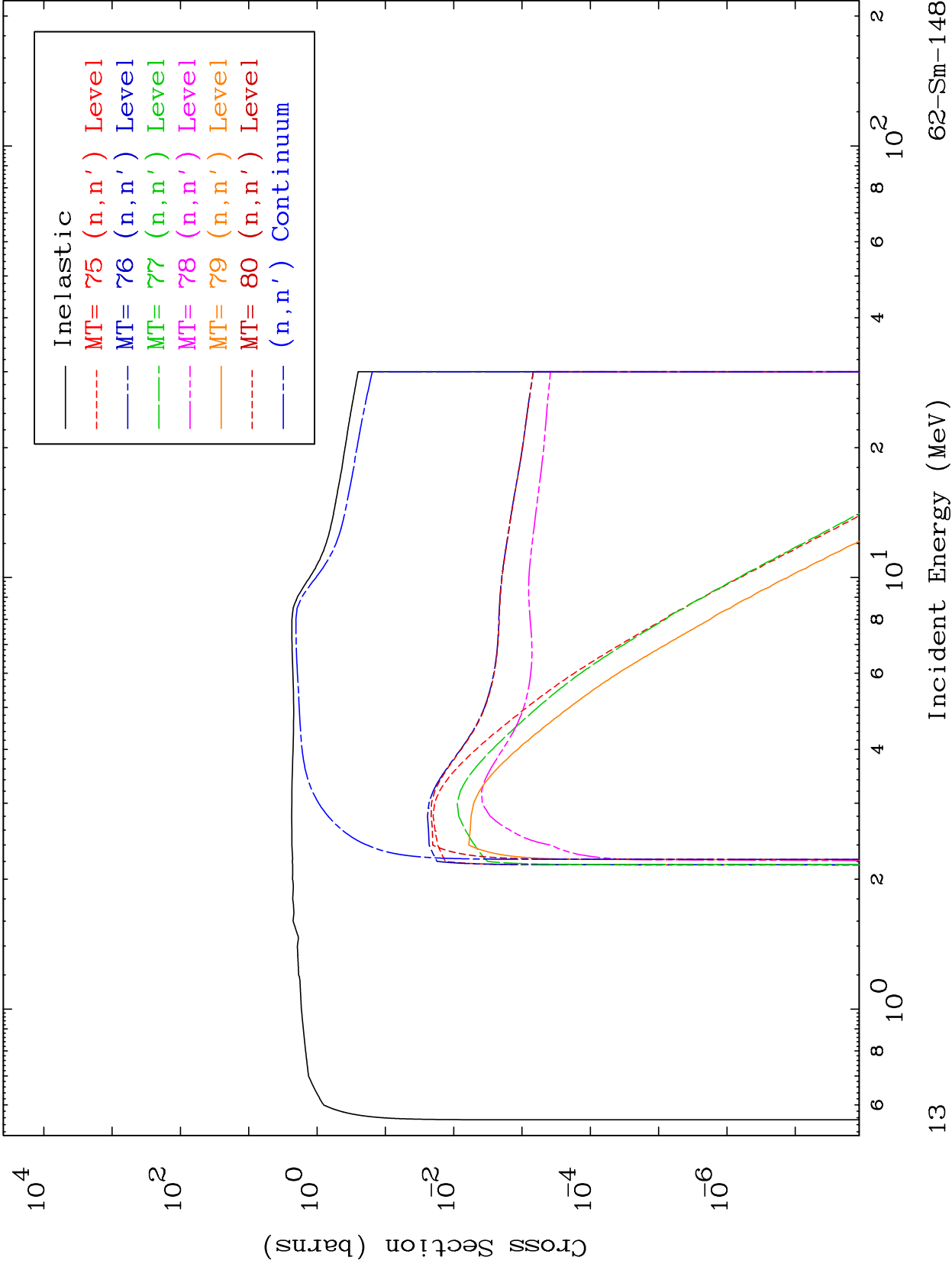
62-Sm-148

MAT 6237

(n,n') Levels

62-Sm-148

293 Kelvin Cross Sections



13

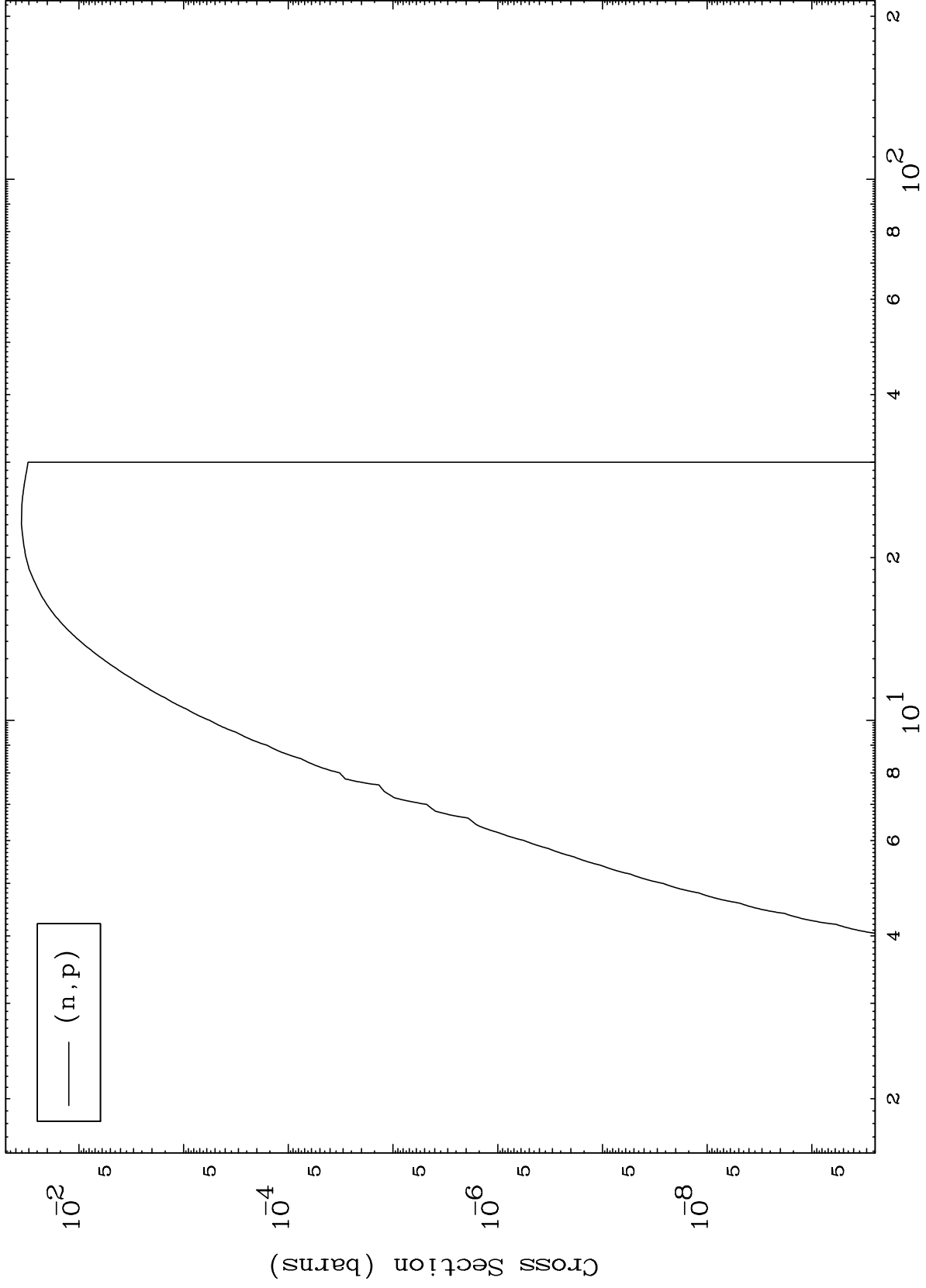
Incident Energy (MeV)

62-Sm-148

MAT 6237

(n,p) Levels
293 Kelvin Cross Sections

62-Sm-148



14

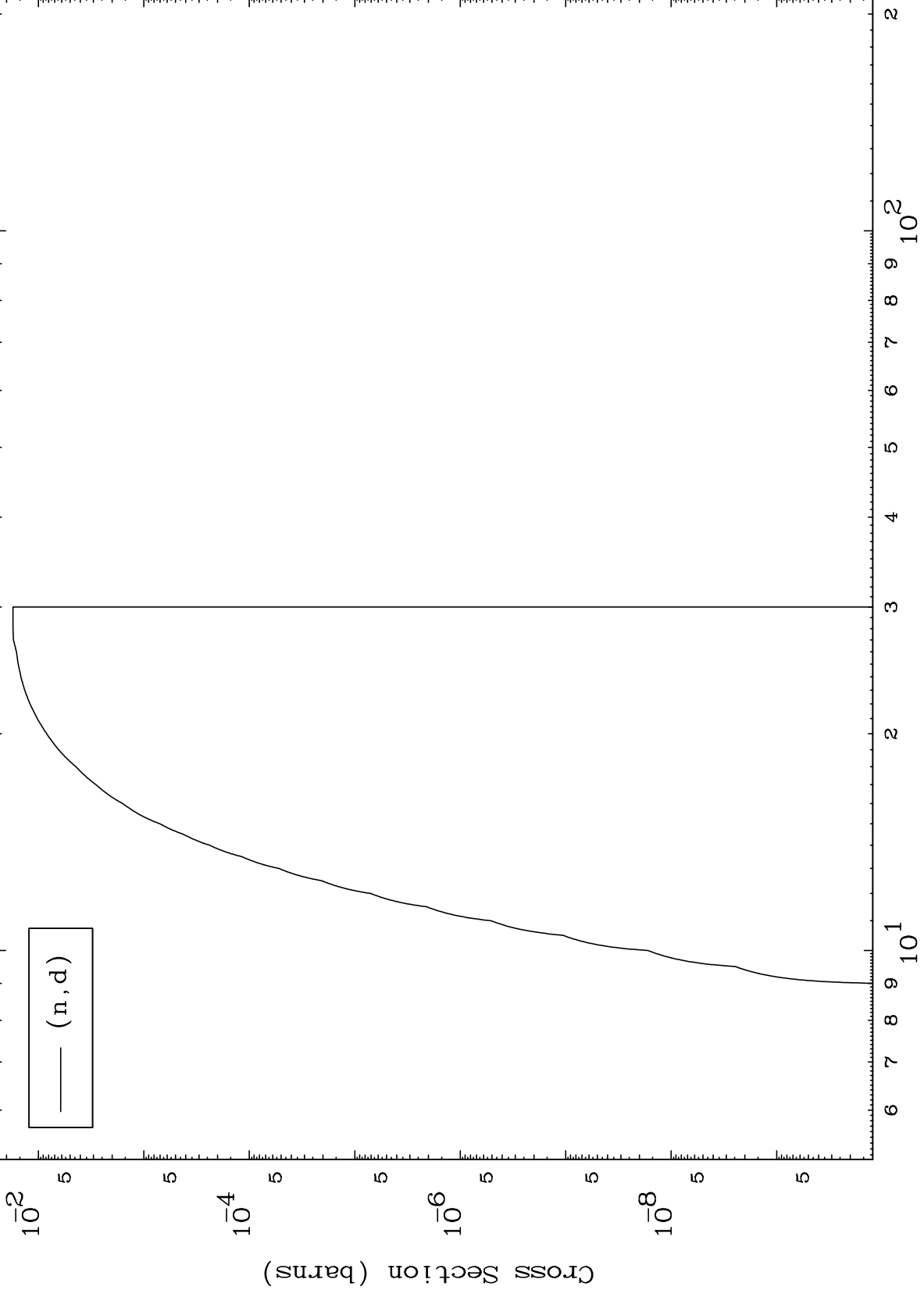
Incident Energy (MeV)

62-Sm-148

MAT 6237

(n,d) Levels
293 Kelvin Cross Sections

62-Sm-148



15

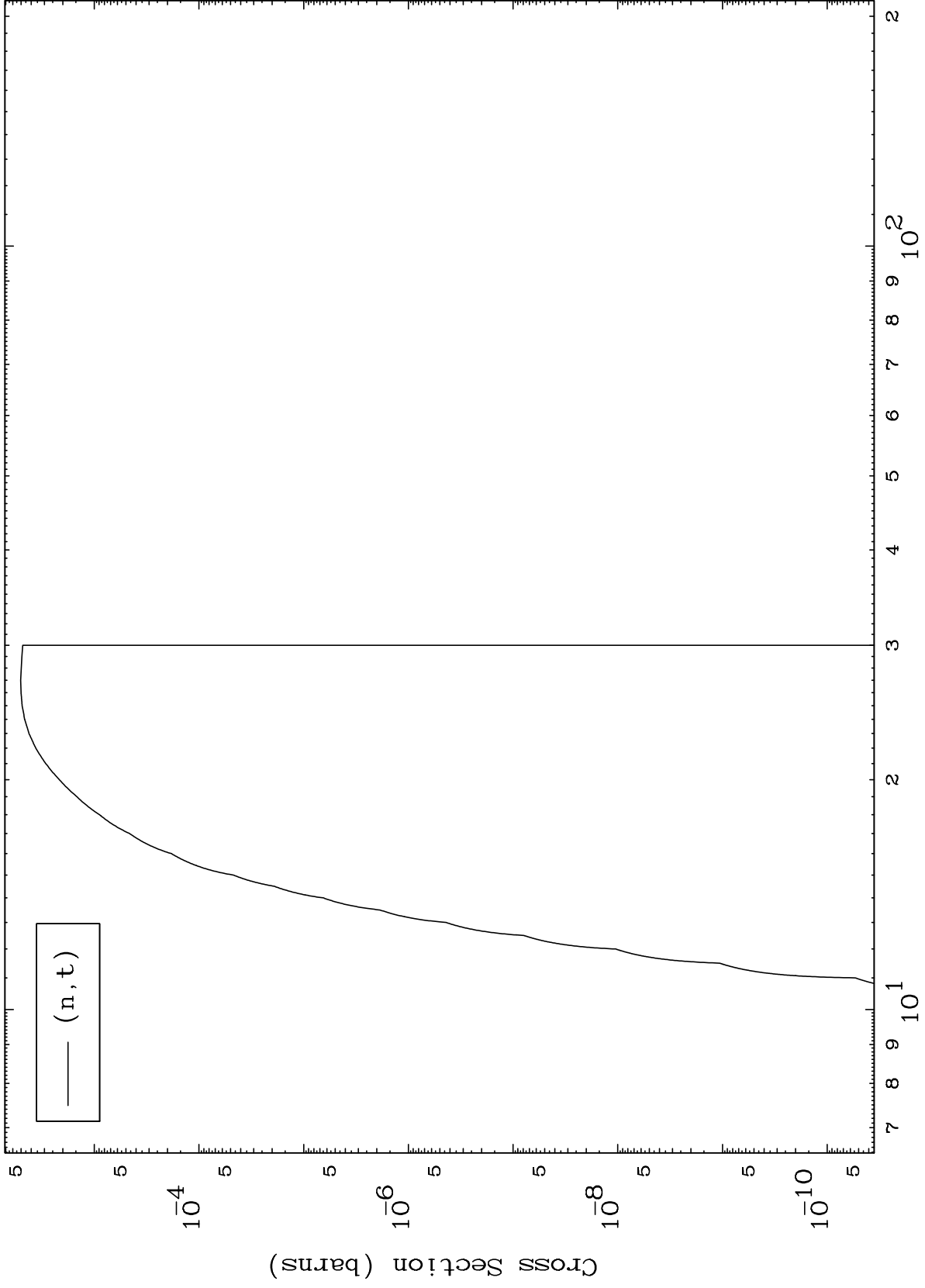
Incident Energy (MeV)

62-Sm-148

MAT 6237

(n,t) Levels
293 Kelvin Cross Sections

62-Sm-148



16

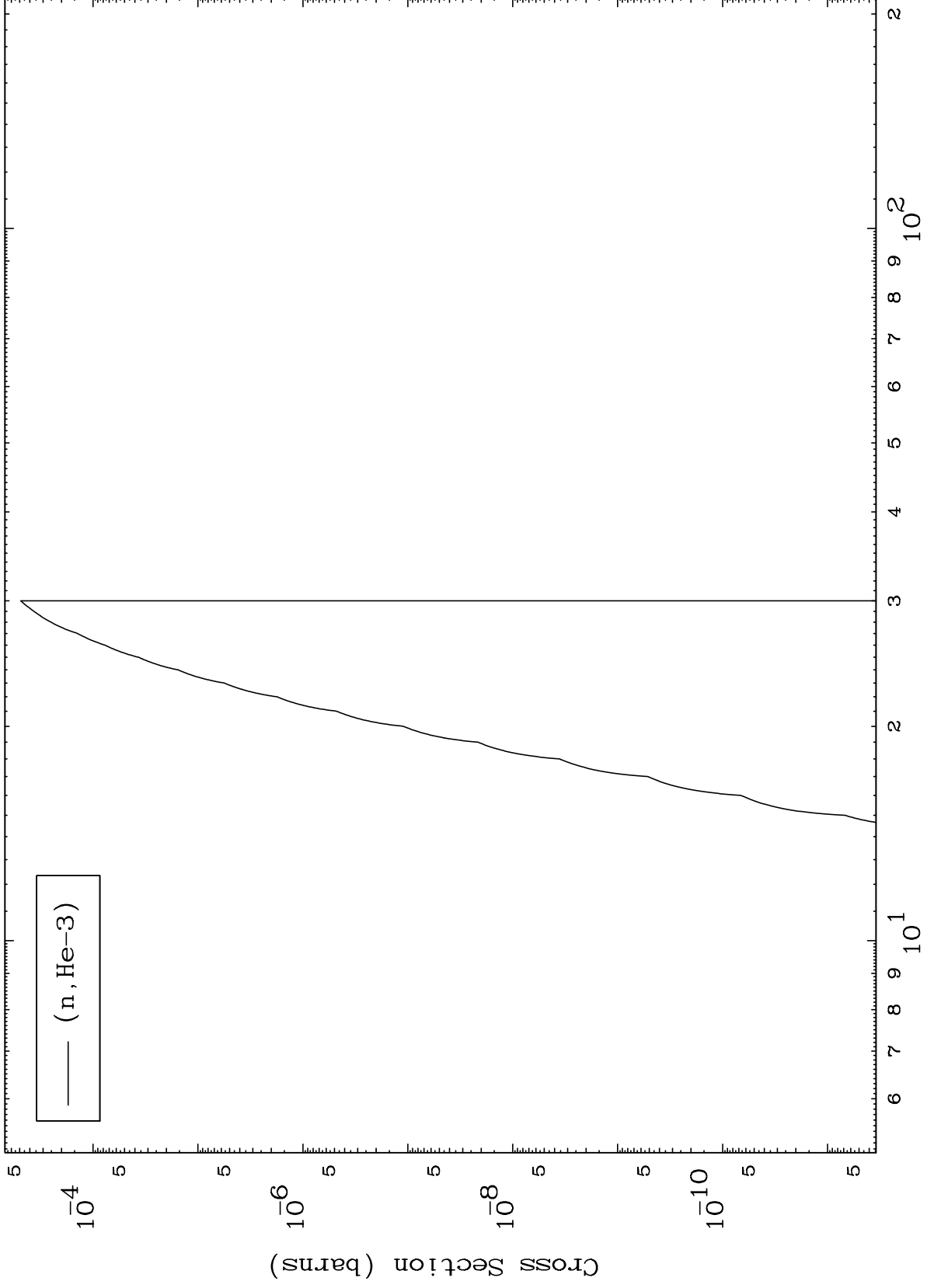
Incident Energy (MeV)

62-Sm-148

MAT 6237

(n,He3) Levels
293 Kelvin Cross Sections

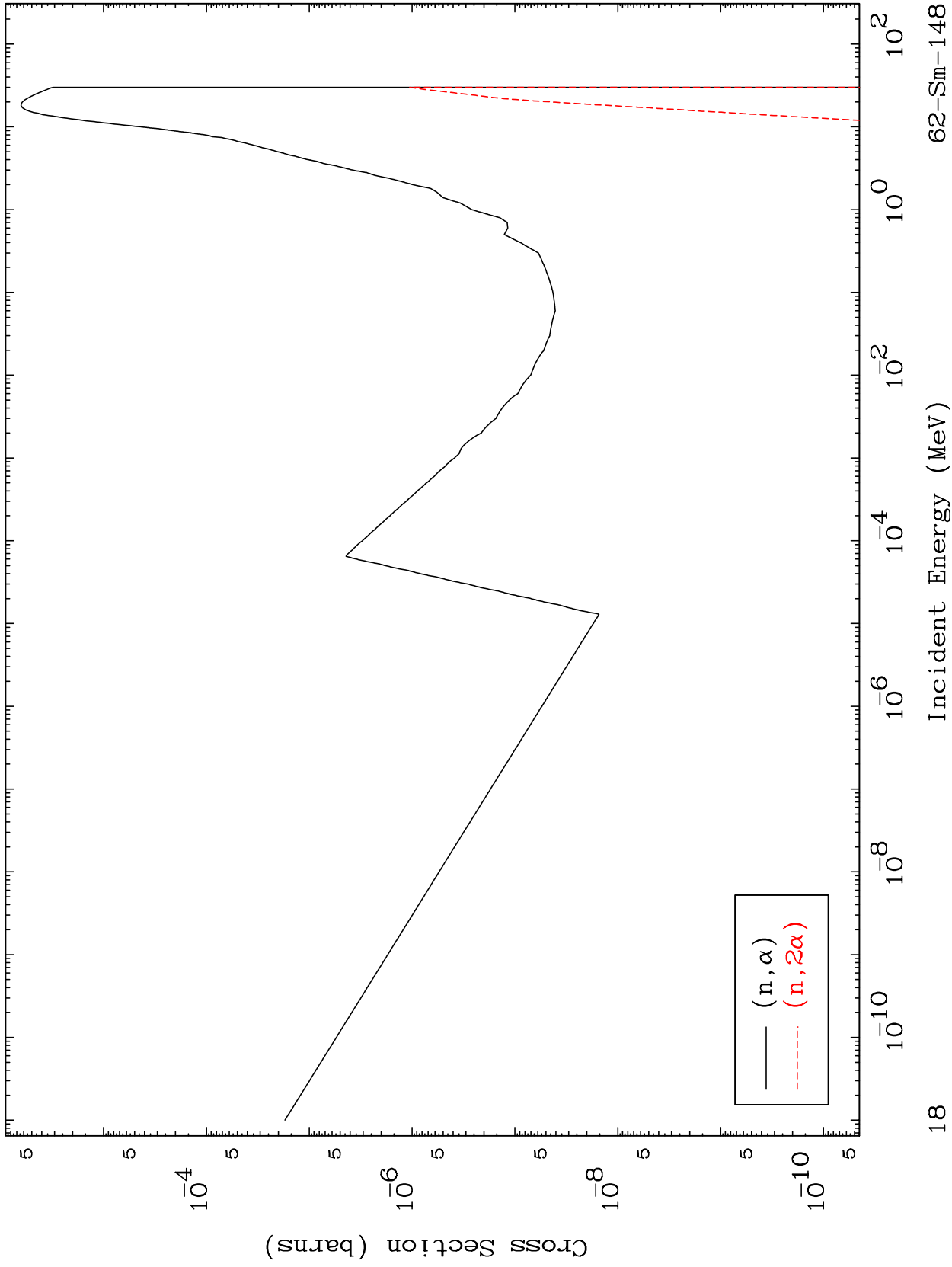
62-Sm-148



MAT 6237

(n, α) Levels
293 Kelvin Cross Sections

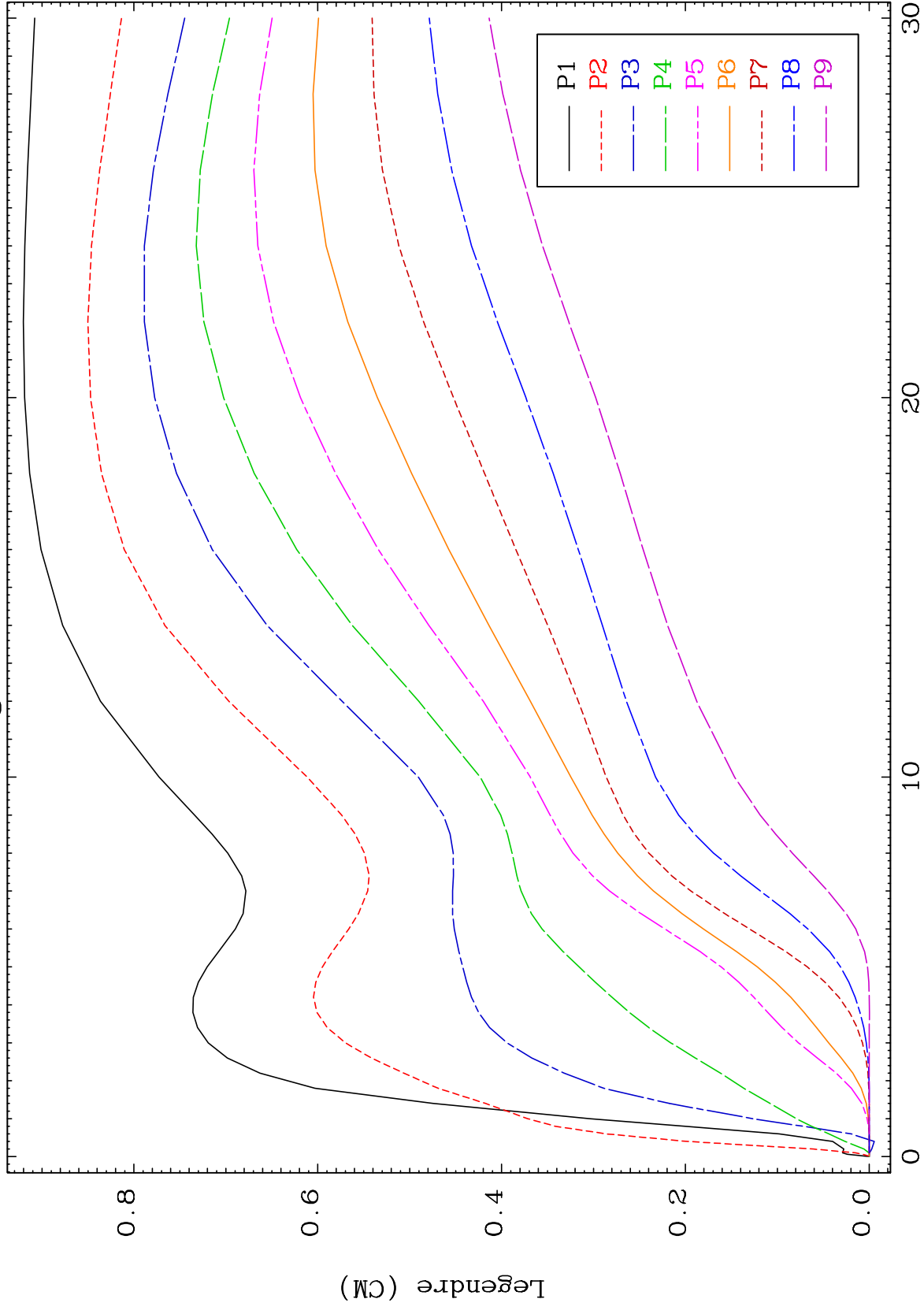
62-Sm-148



MAT 6237

Elastic Legendre Coefficients

62-Sm-148



19

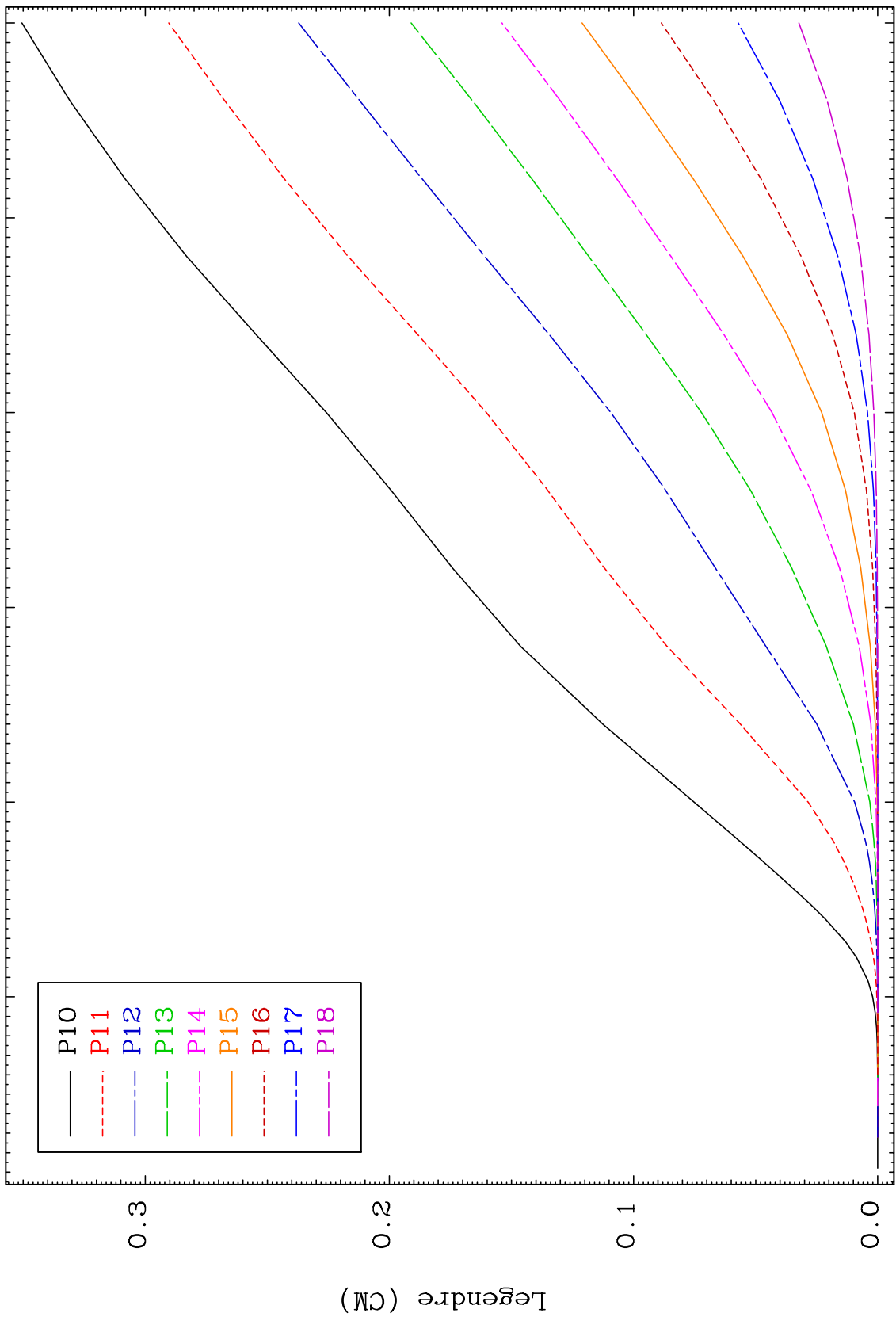
Incident Energy (MeV)

62-Sm-148

MAT 6237

Elastic Legendre Coefficients

⁶²Sm-148



20

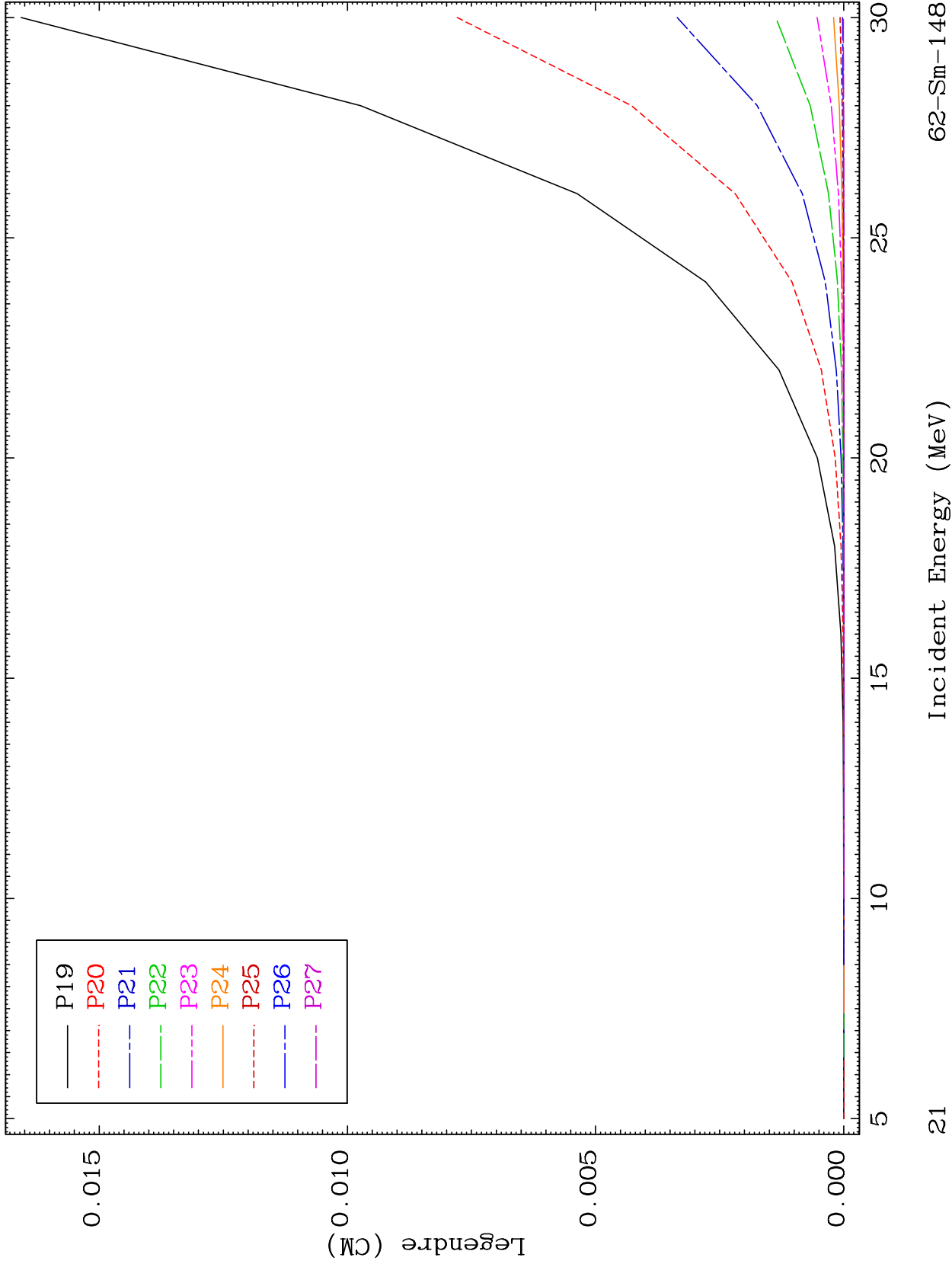
Incident Energy (MeV)

⁶²Sm-148

MAT 6237

Elastic Legendre Coefficients

62-Sm-148



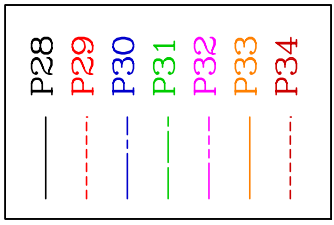
21

62-Sm-148

MAT 6237

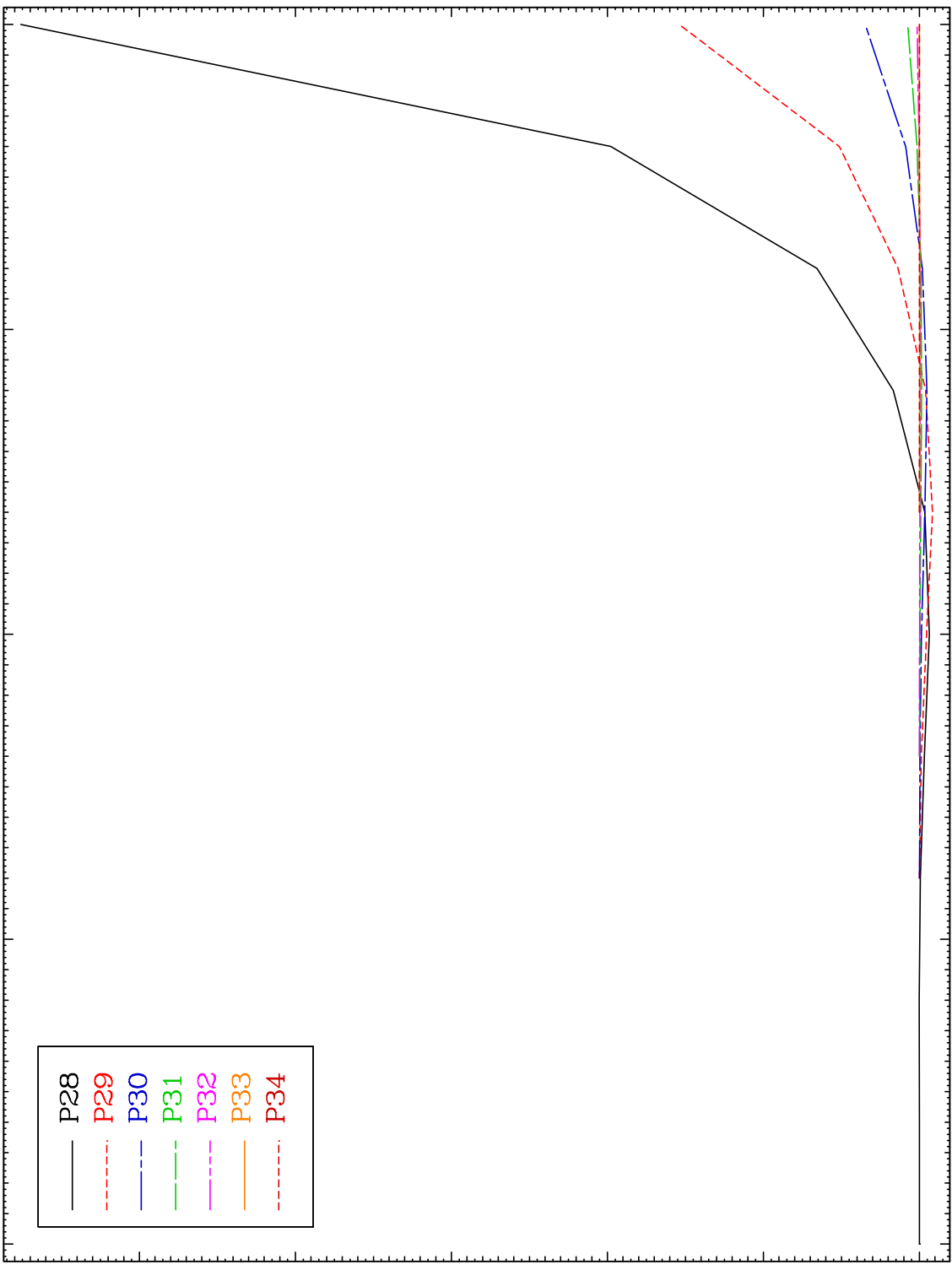
Elastic Legendre Coefficients

62-Sm-148



$\times 10^{-6}$

Legendre (CM)



30

25

20

15

10

Incident Energy (MeV)

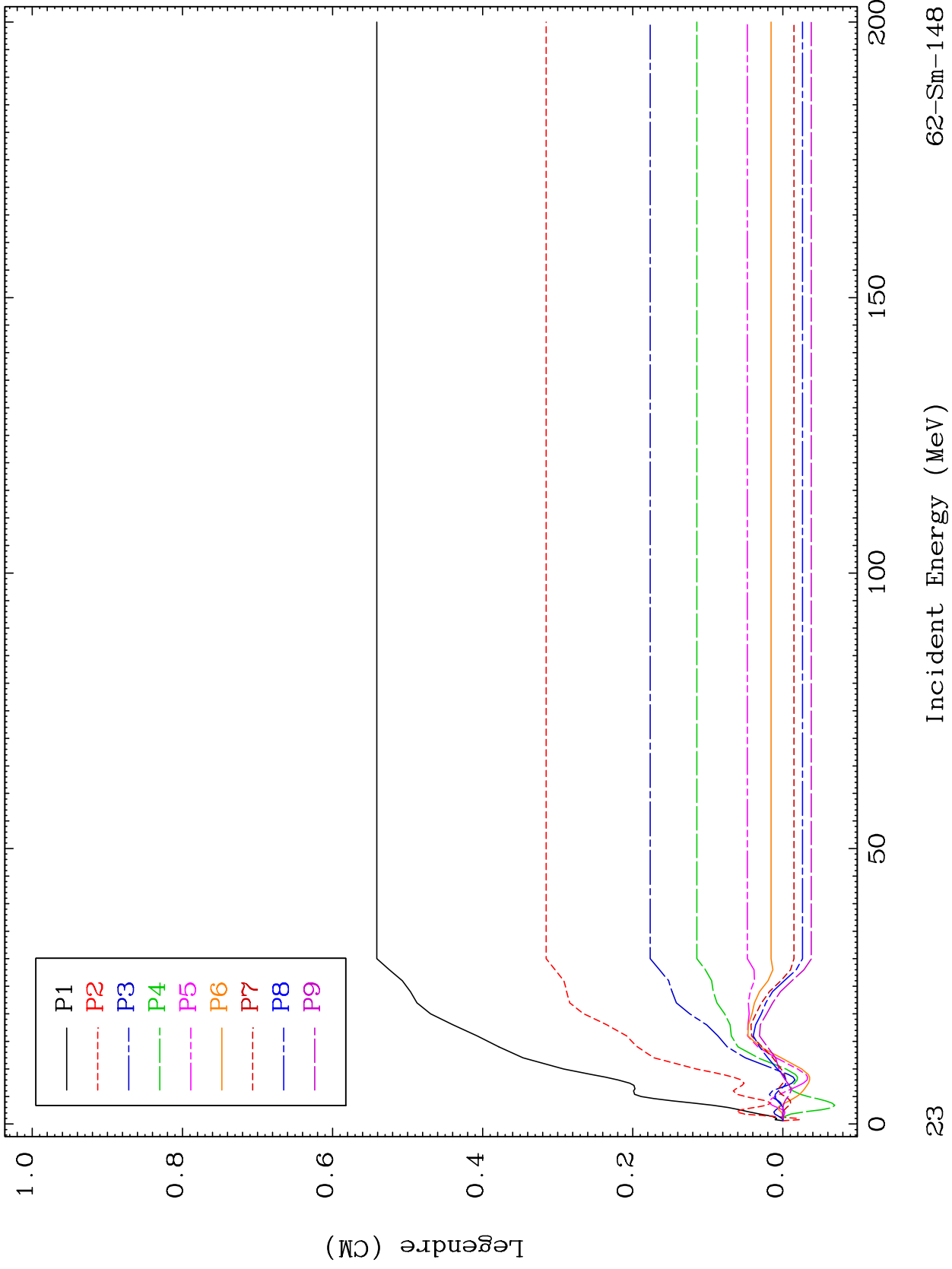
62-Sm-148

22

MAT 6237

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

62-Sm-148



62-Sm-148

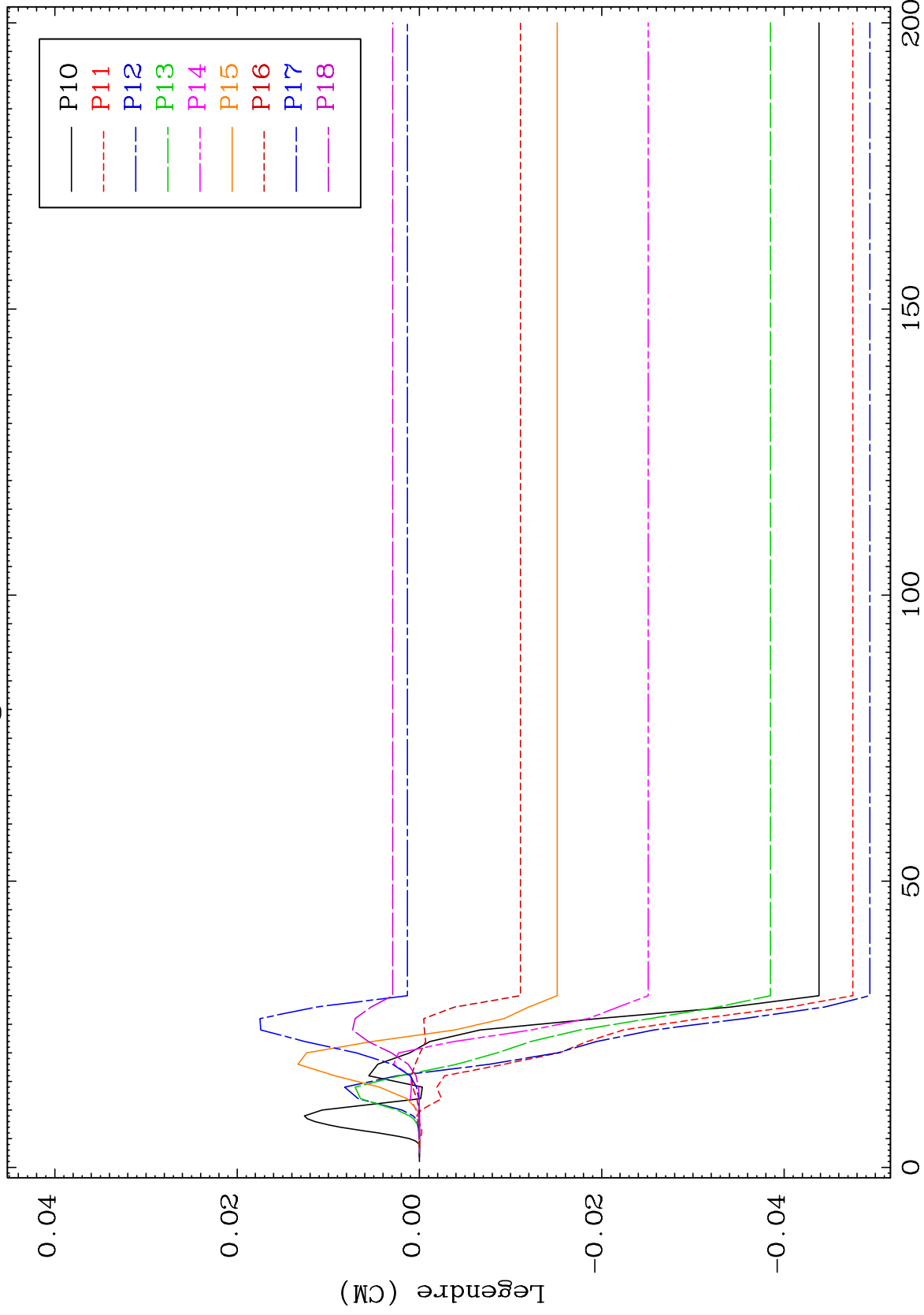
Incident Energy (MeV)

23

MAT 6237

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

62-Sm-148



24

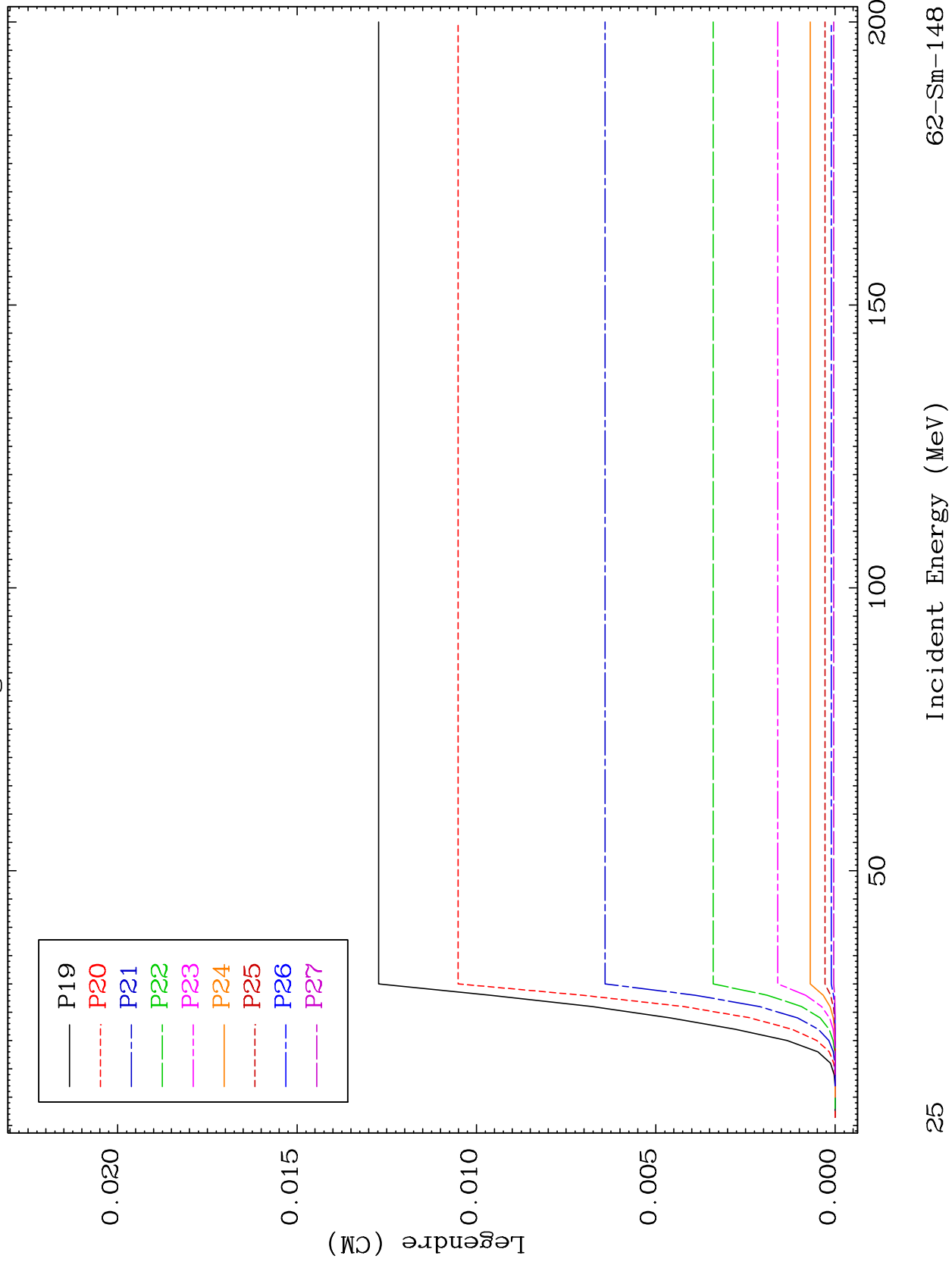
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

62-Sm-148



25

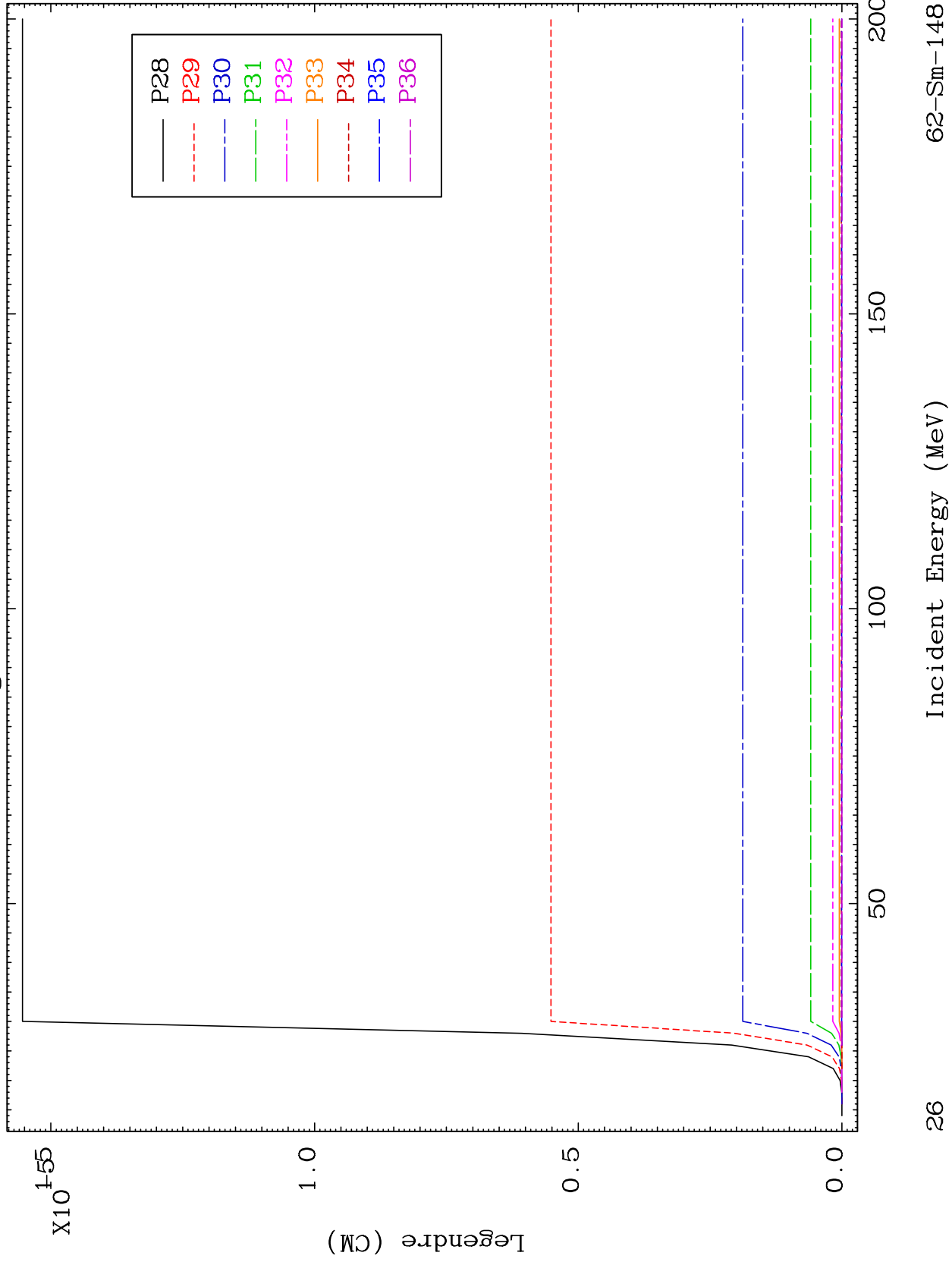
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

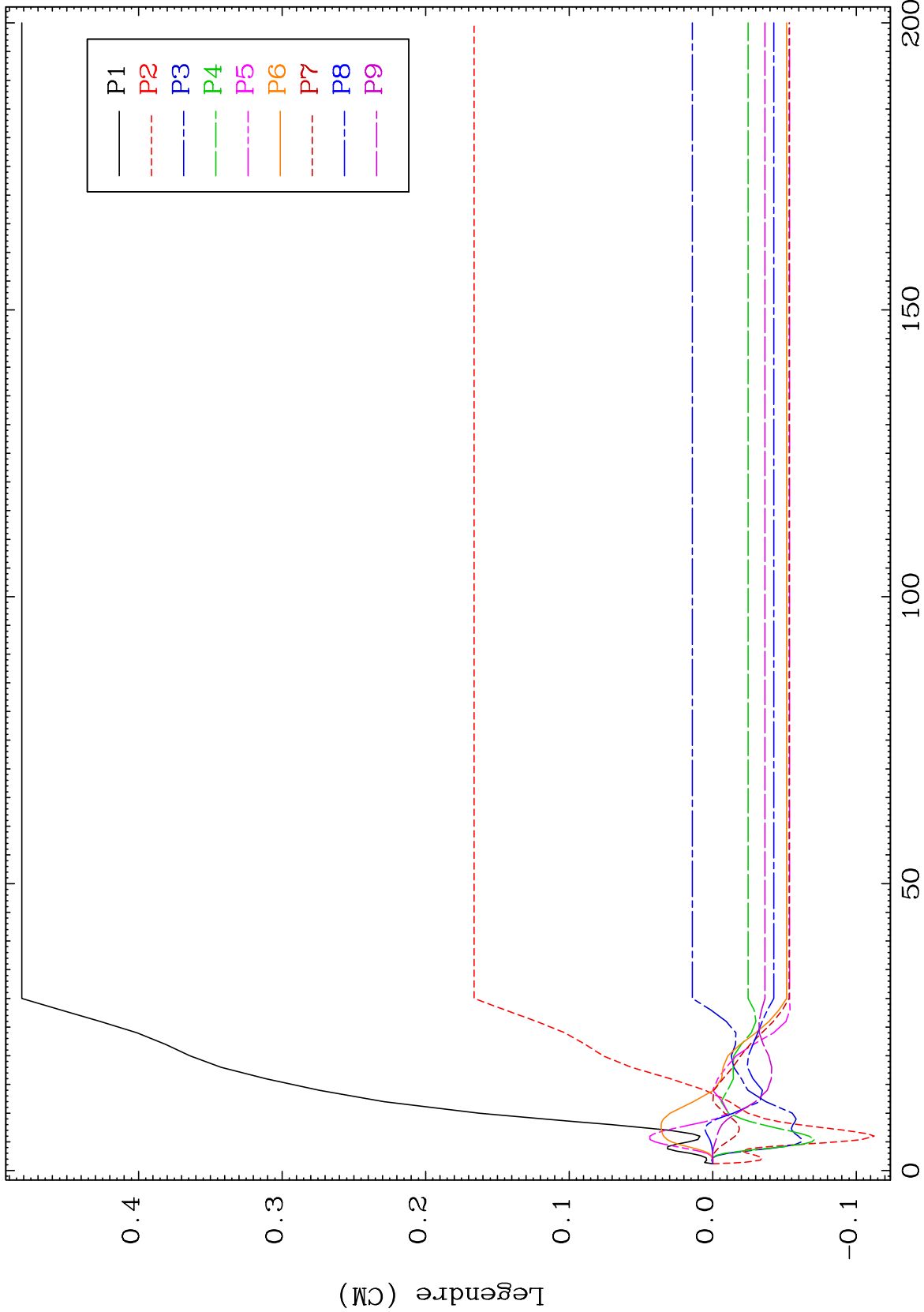
62-Sm-148



MAT 6237

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

62-Sm-148



27

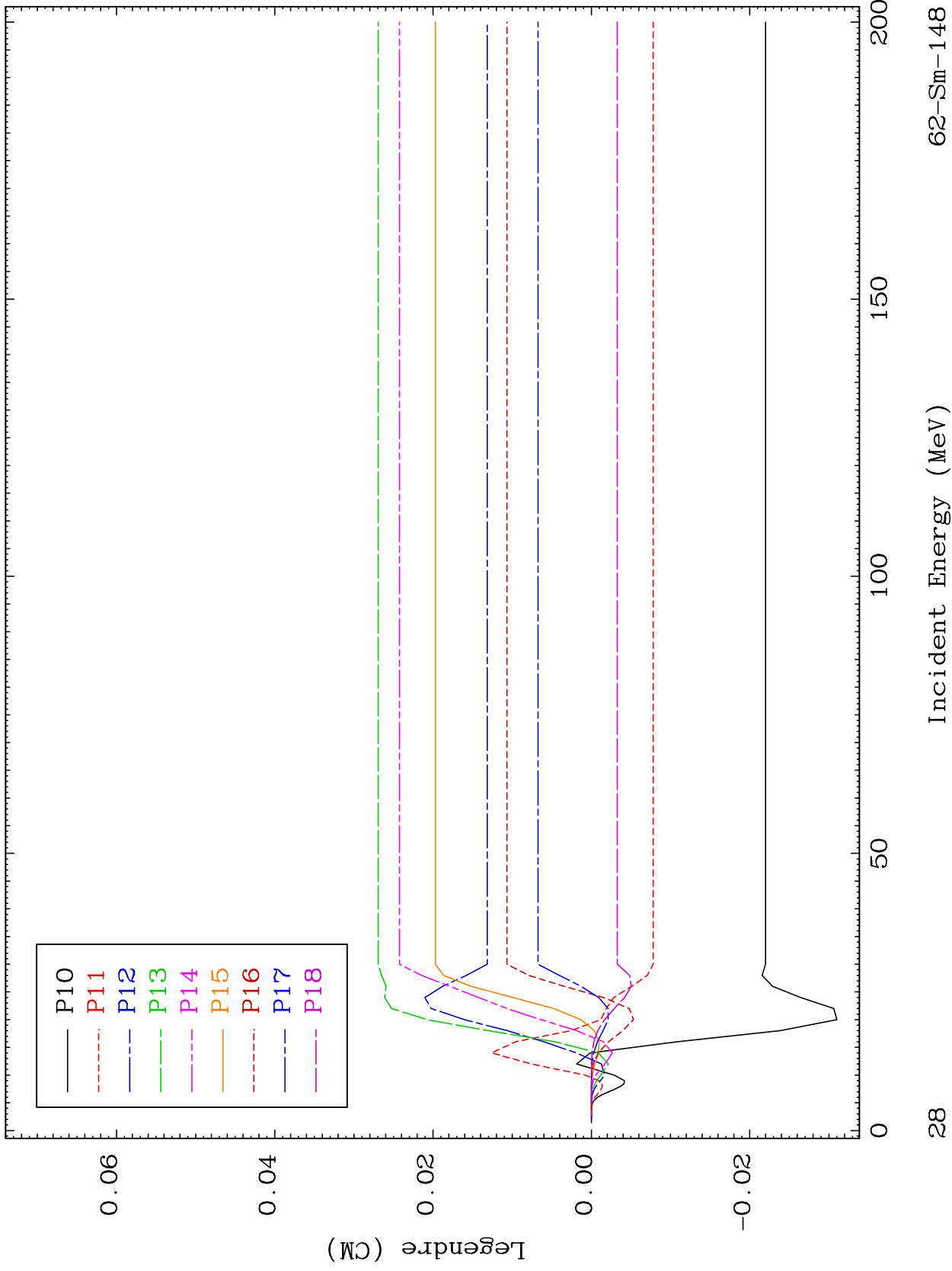
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

62-Sm-148



28

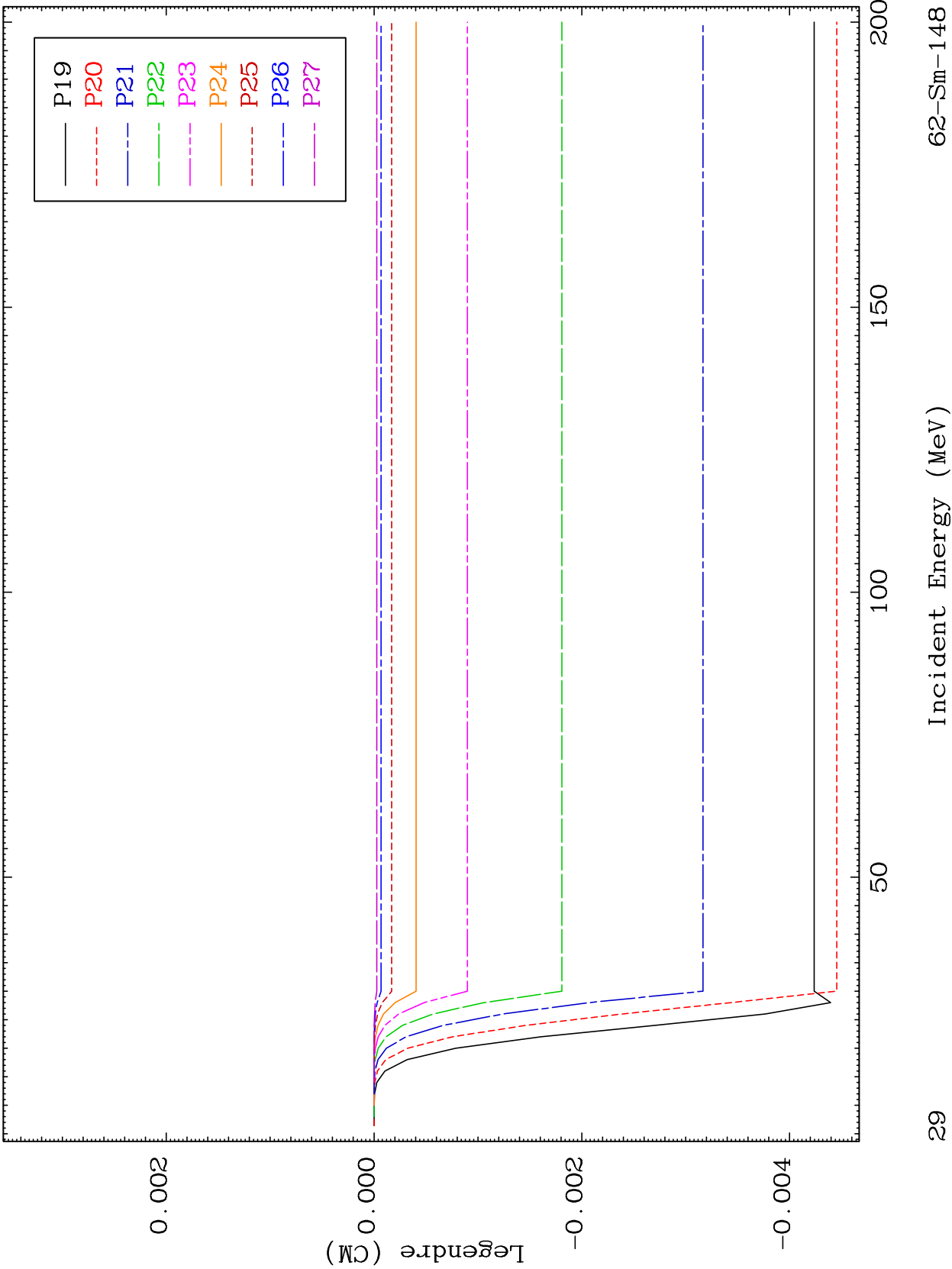
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

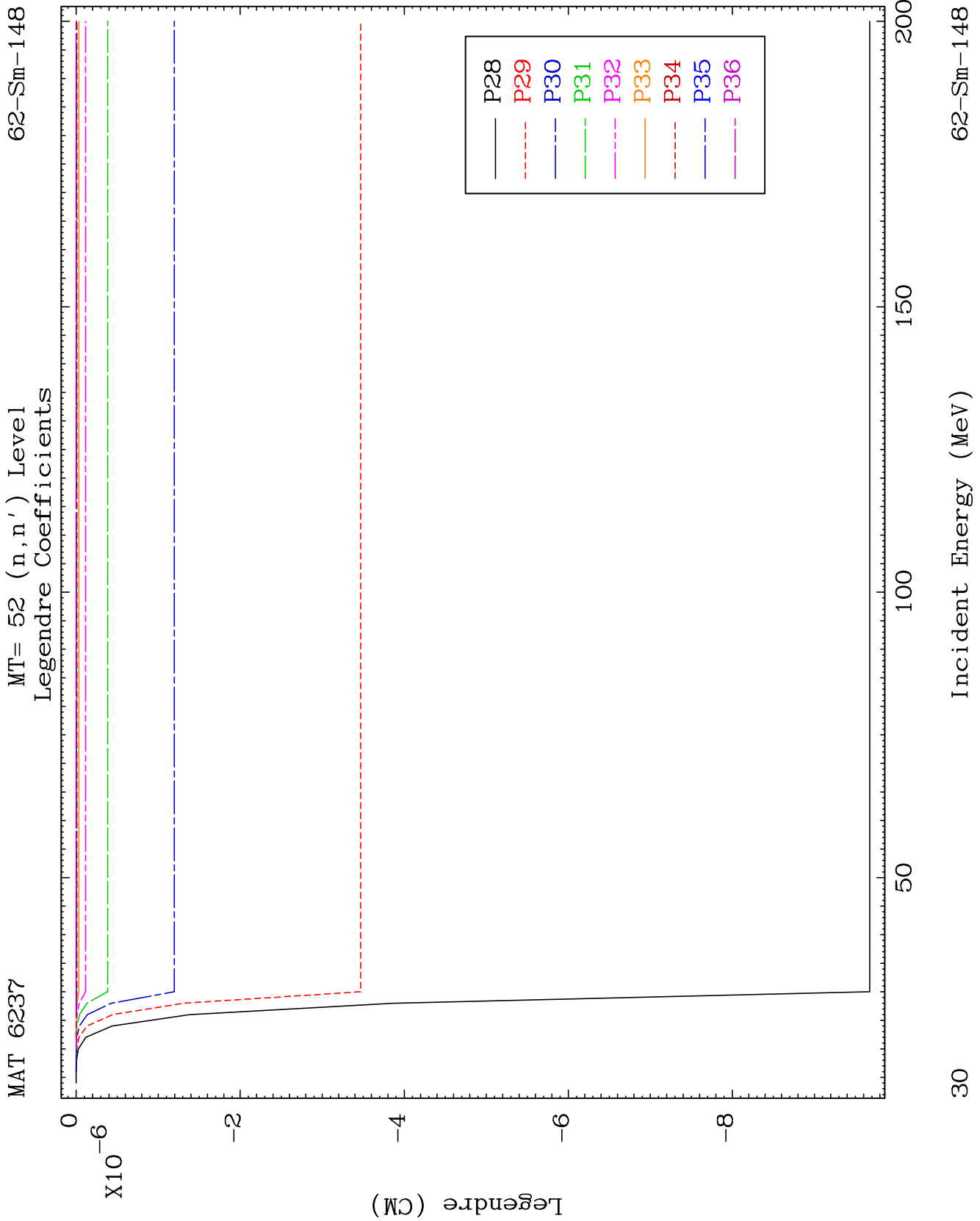
62-Sm-148



29

Incident Energy (MeV)

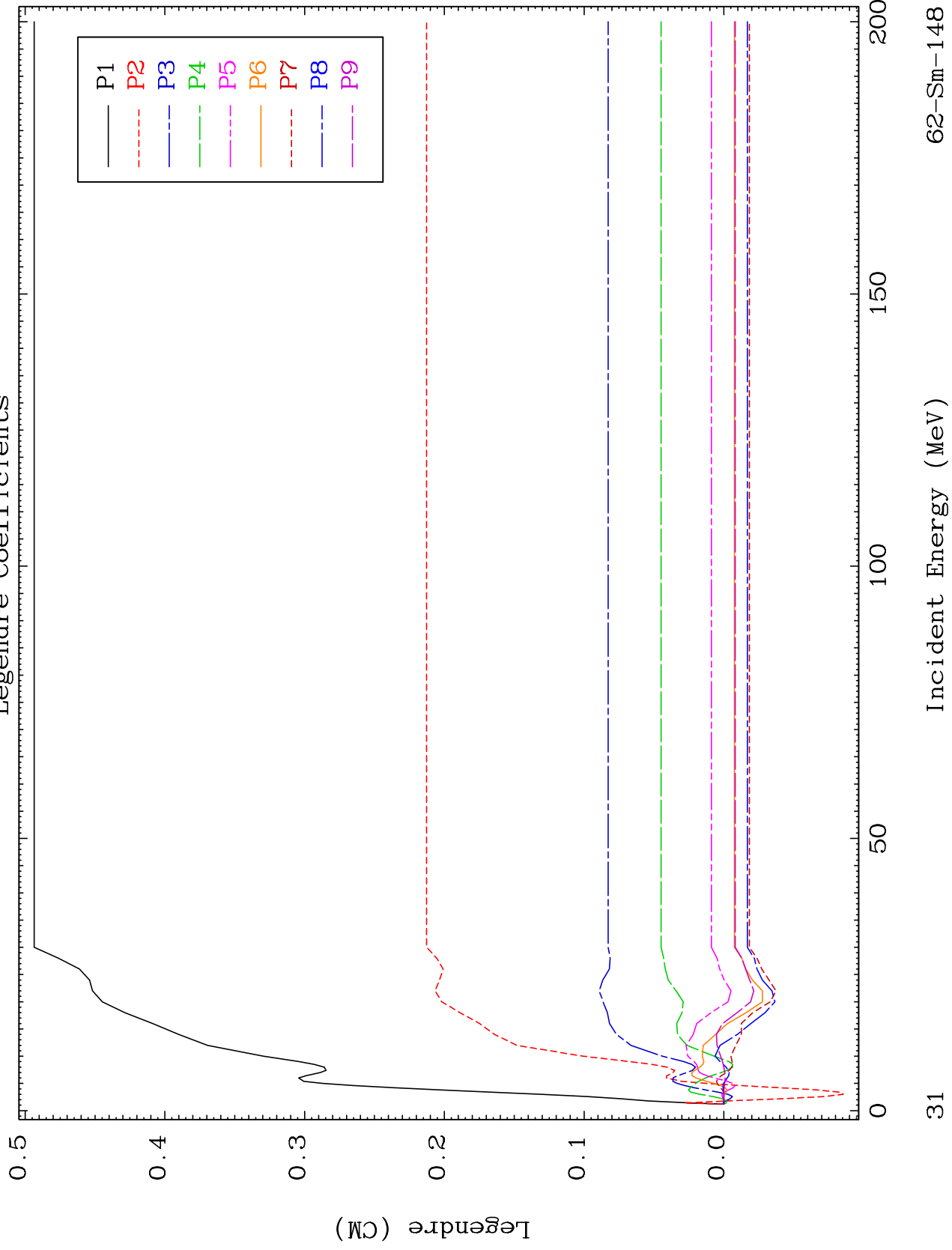
62-Sm-148



MAT 6237

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

62-Sm-148



31

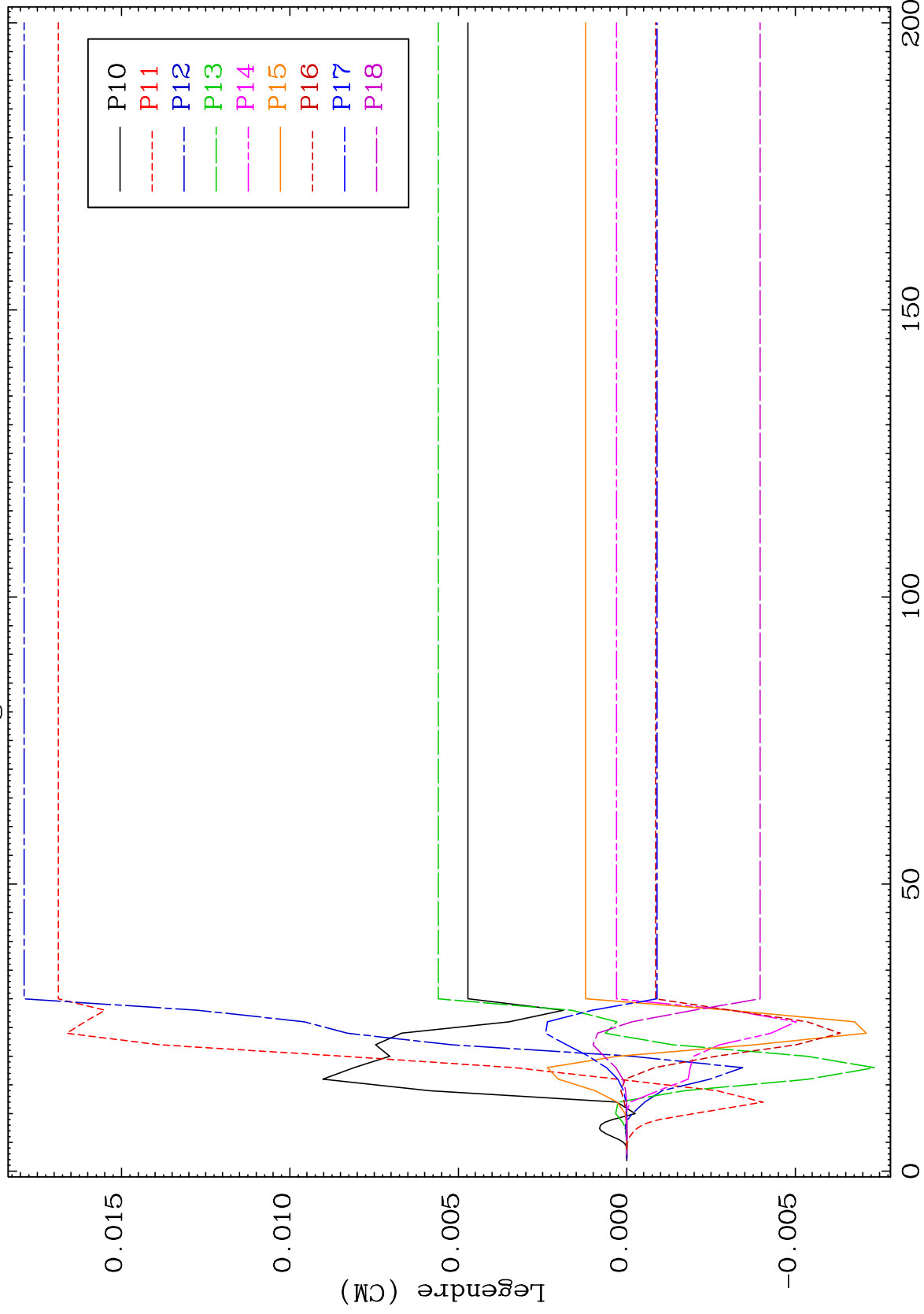
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

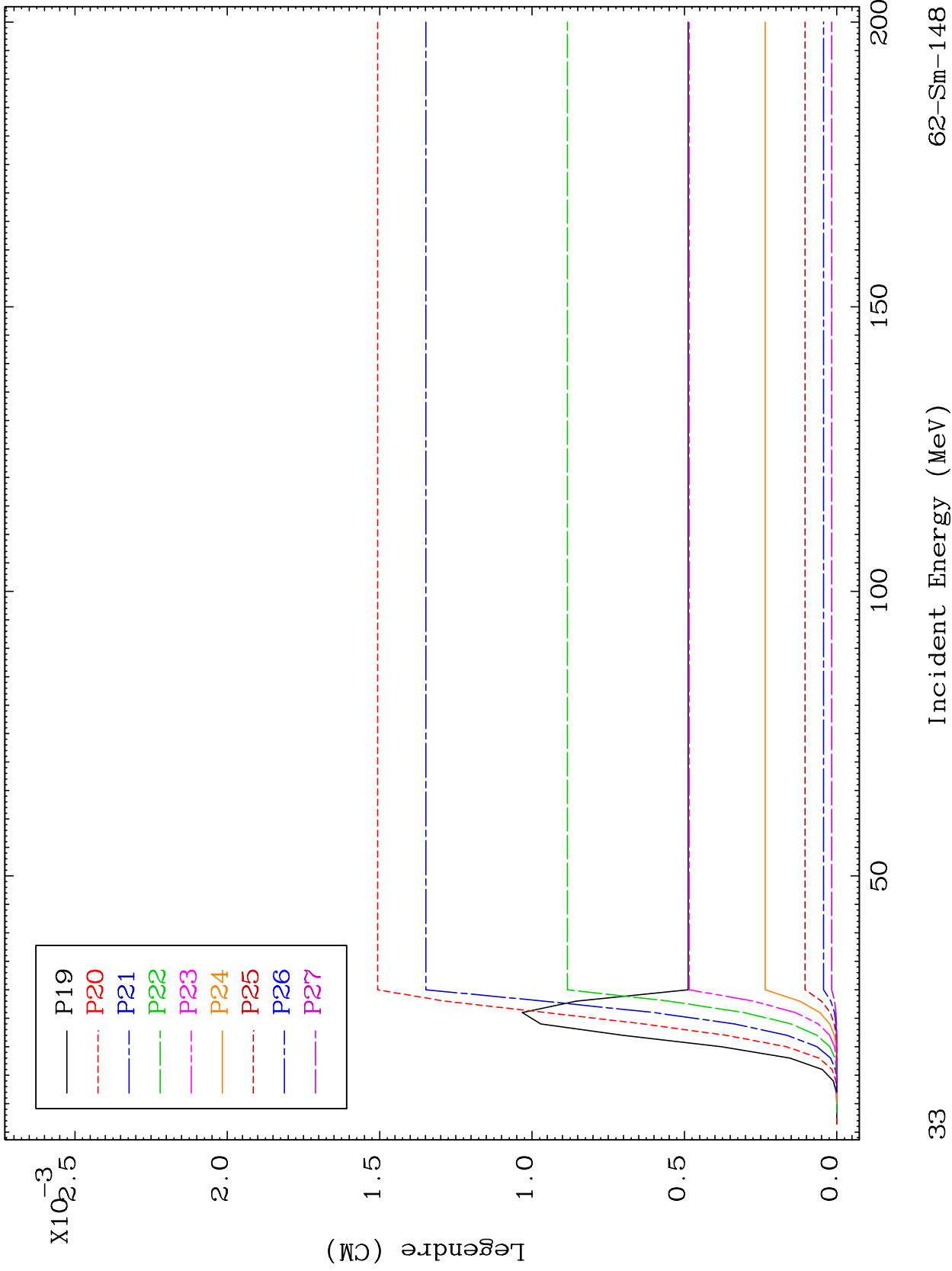
62-Sm-148



32

Incident Energy (MeV)

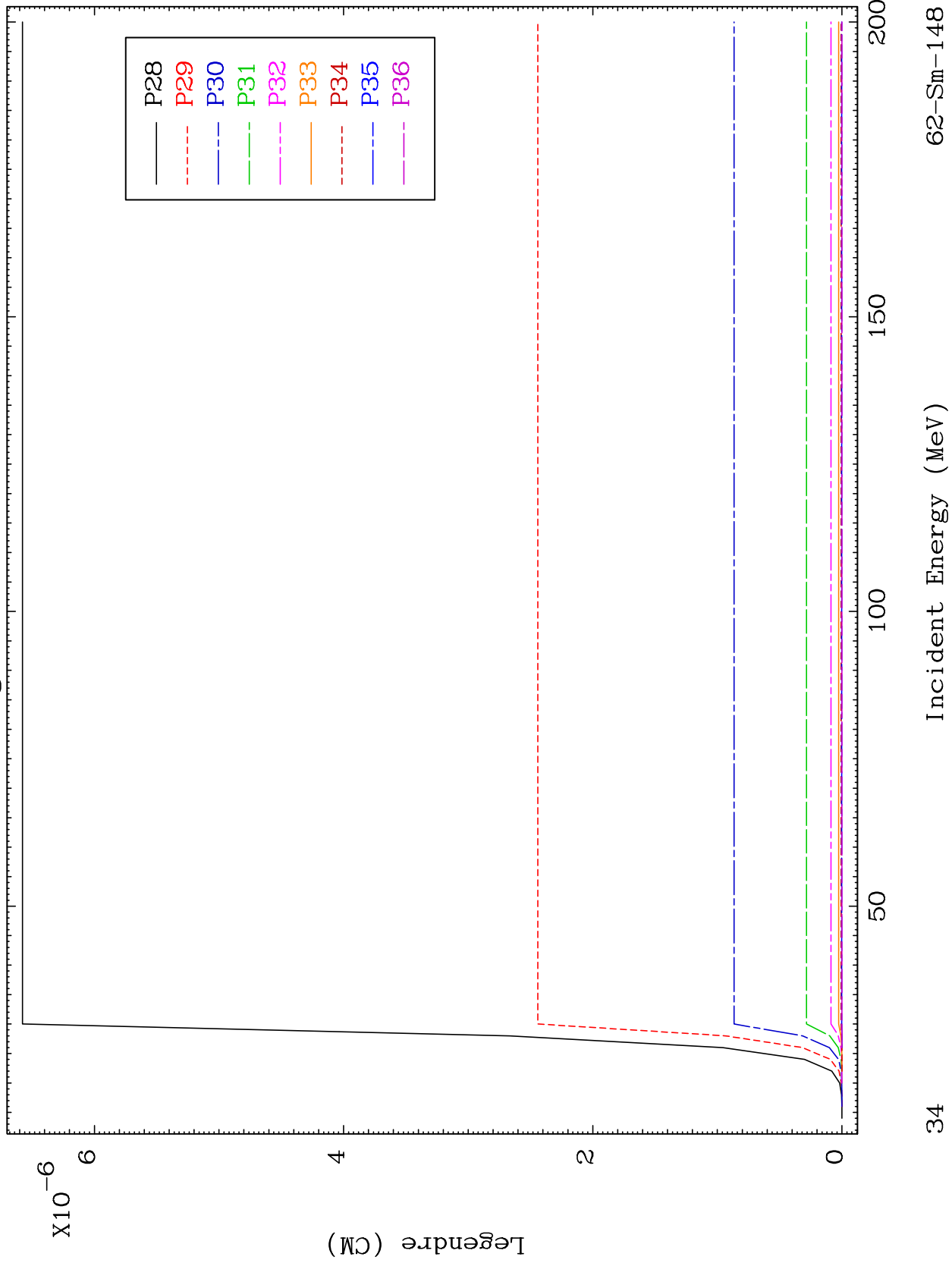
62-Sm-148



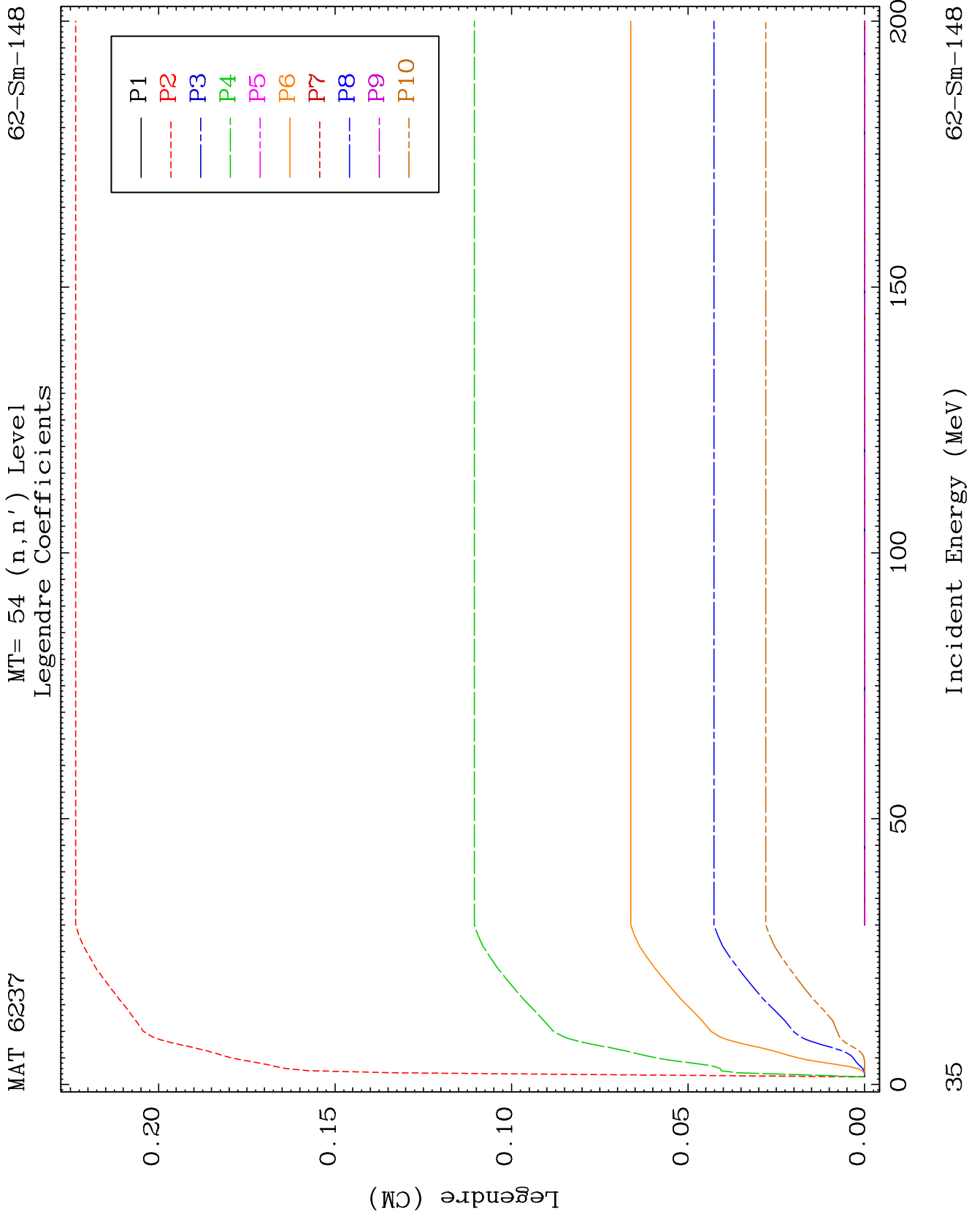
MAT 6237

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

62-Sm-148



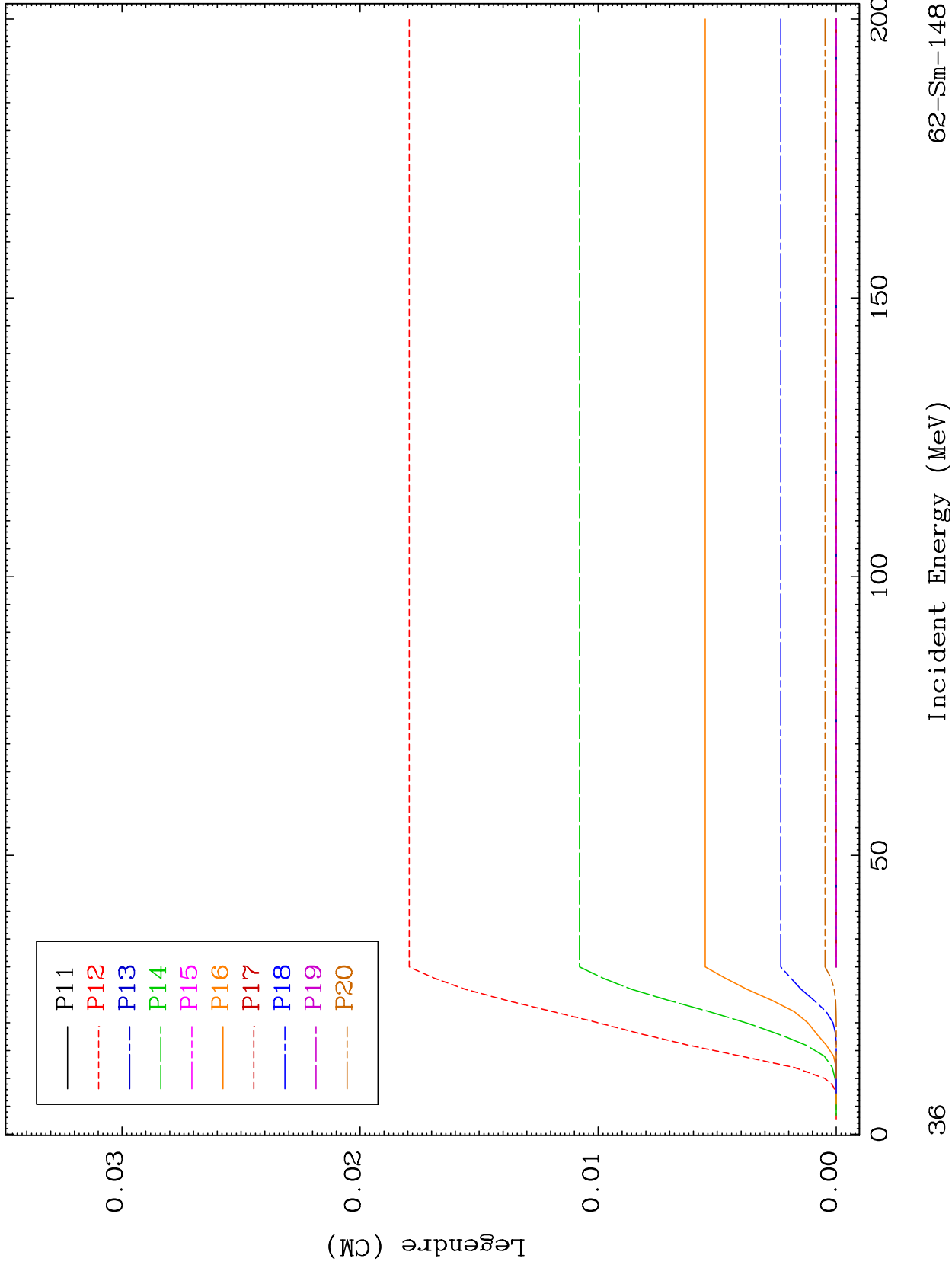
34



MAT 6237

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

62-Sm-148



36

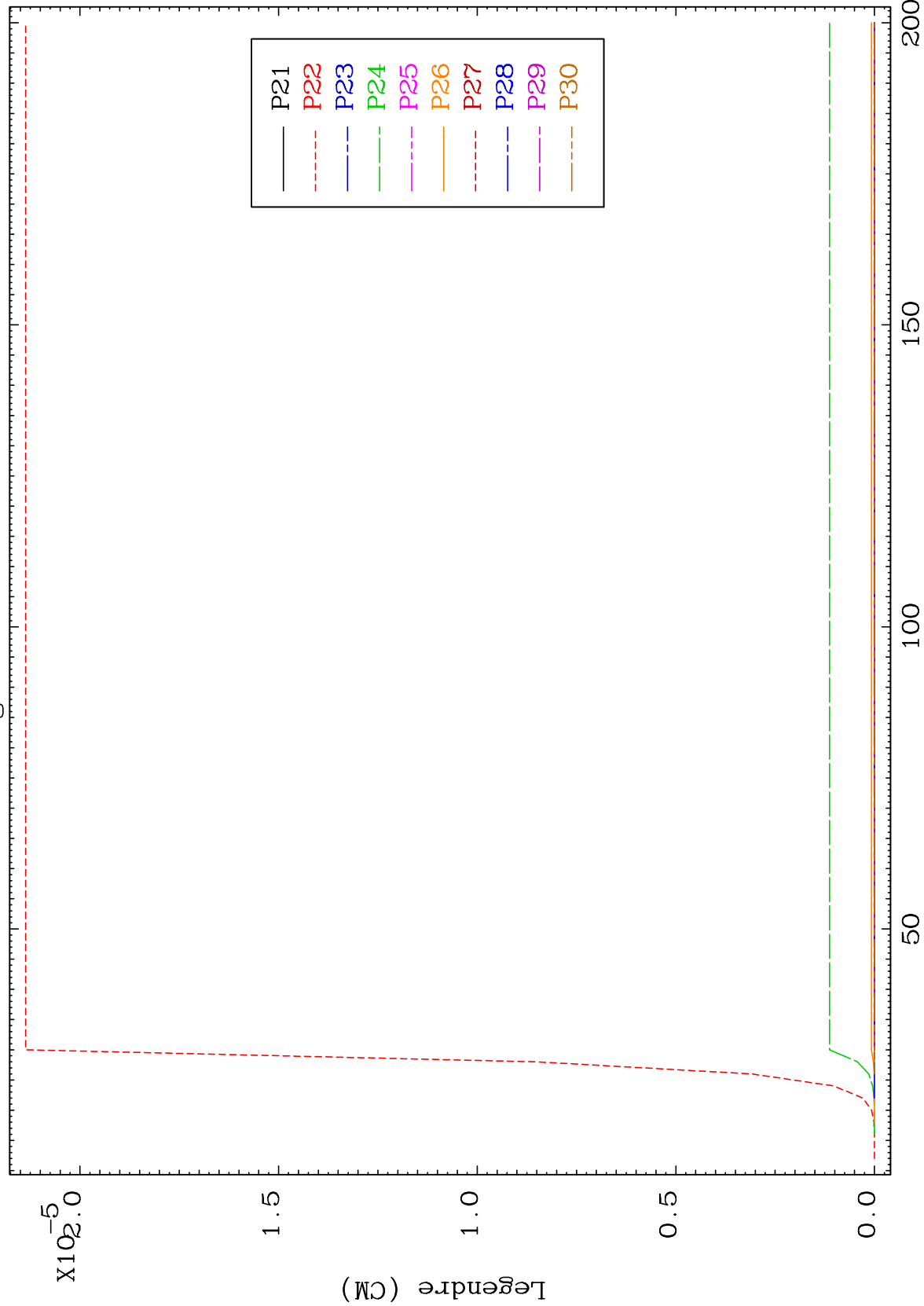
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

62-Sm-148



37

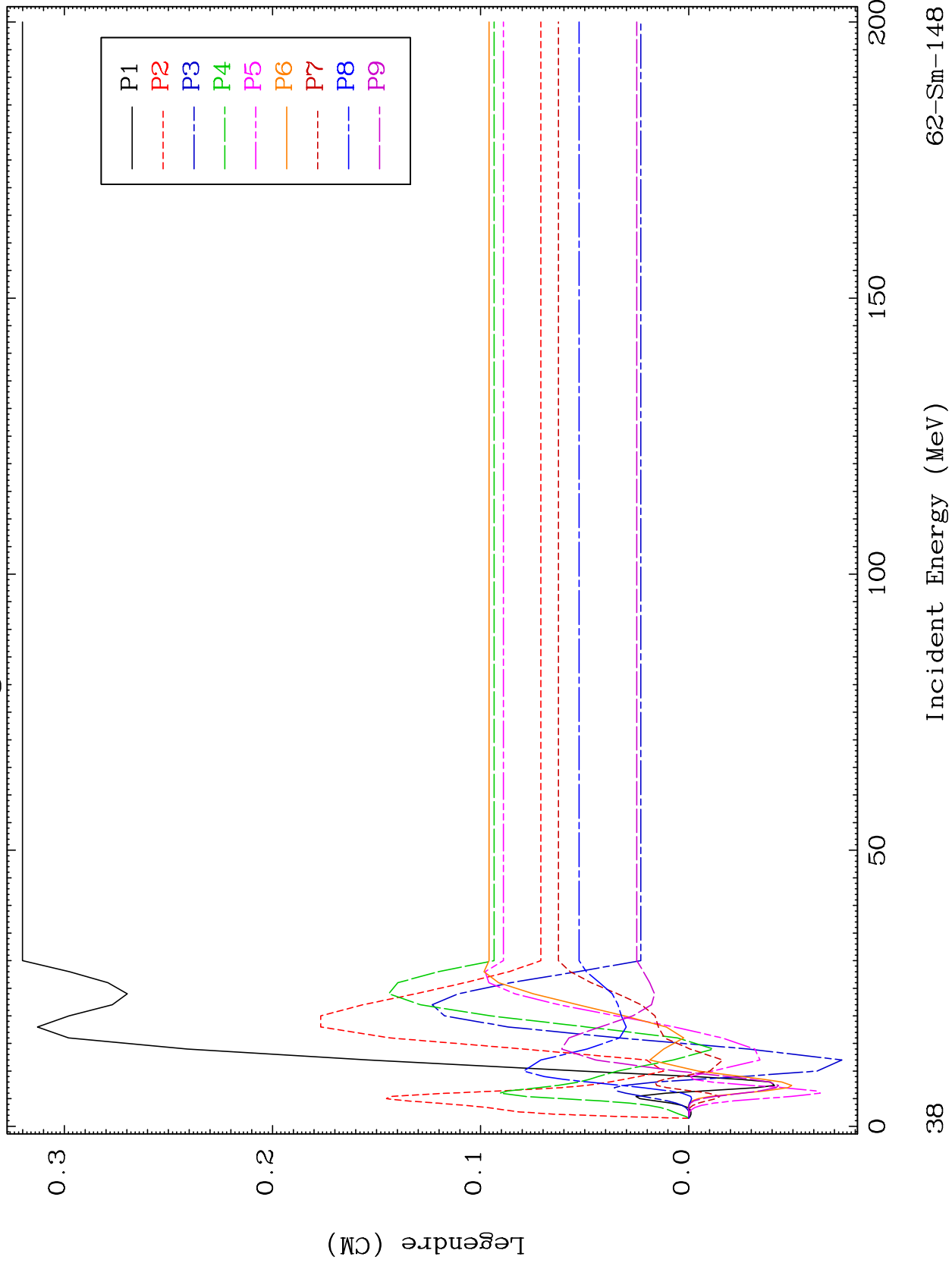
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

62-Sm-148



62-Sm-148

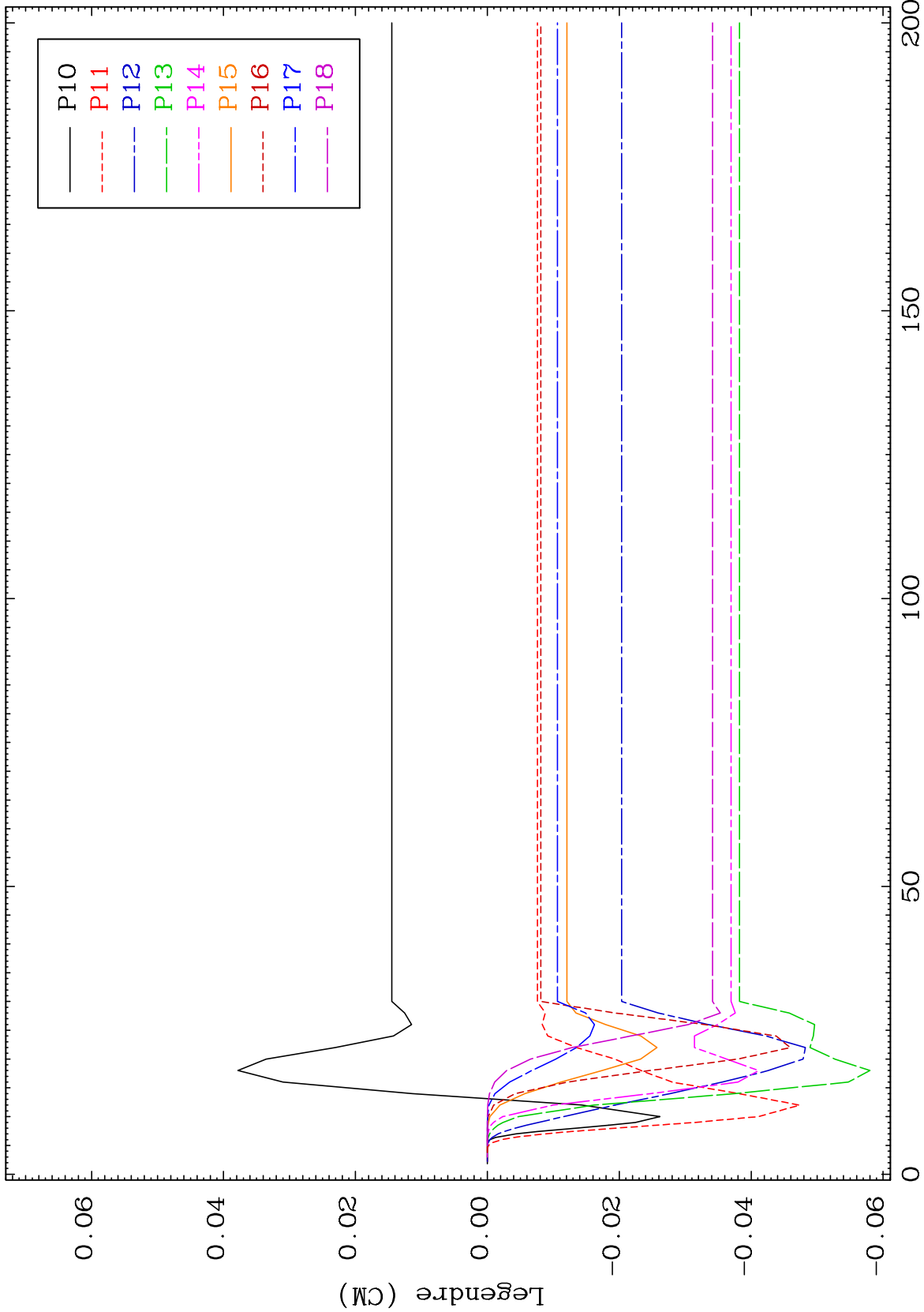
Incident Energy (MeV)

38

MAT 6237

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

62-Sm-148



39

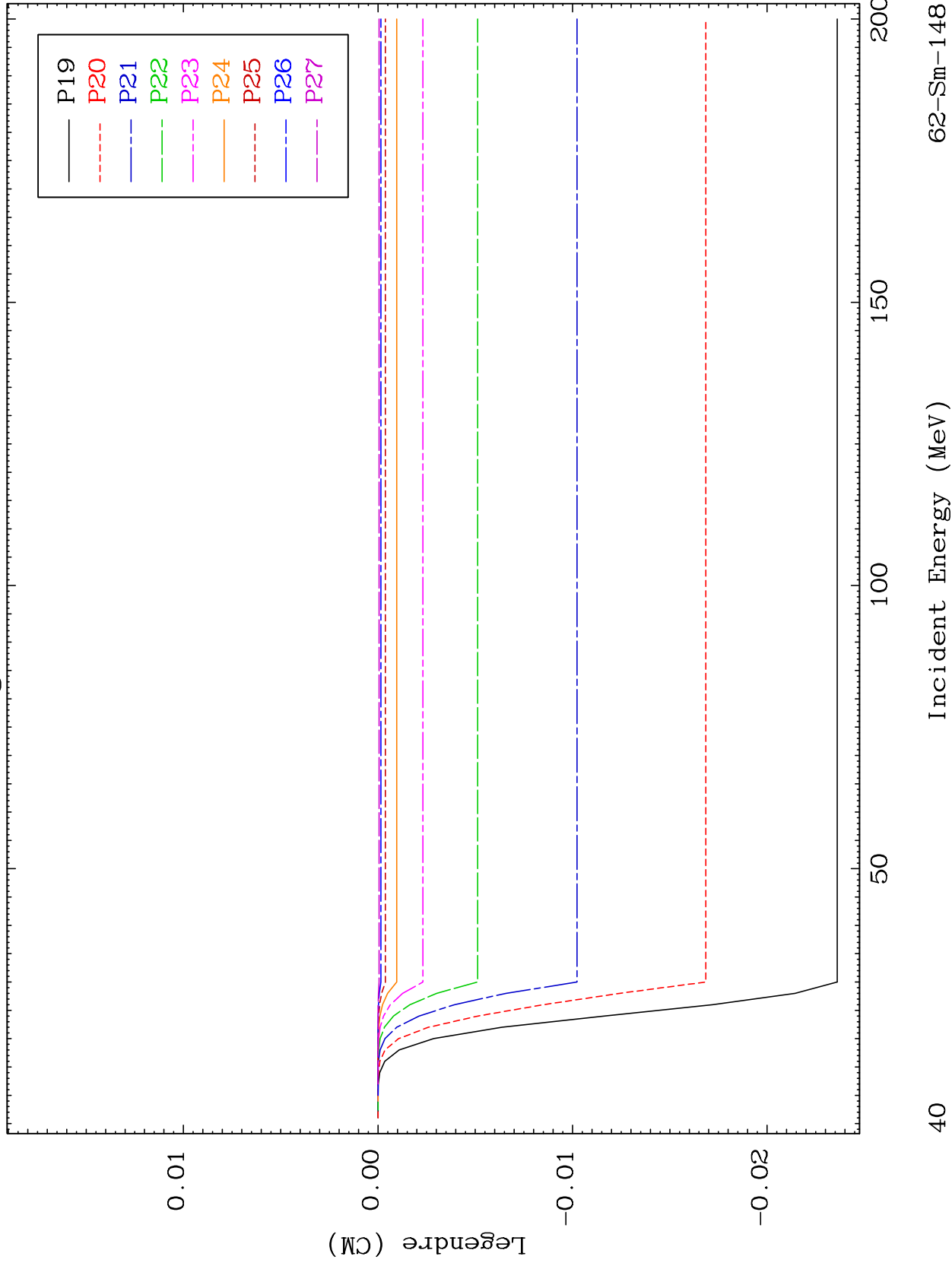
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

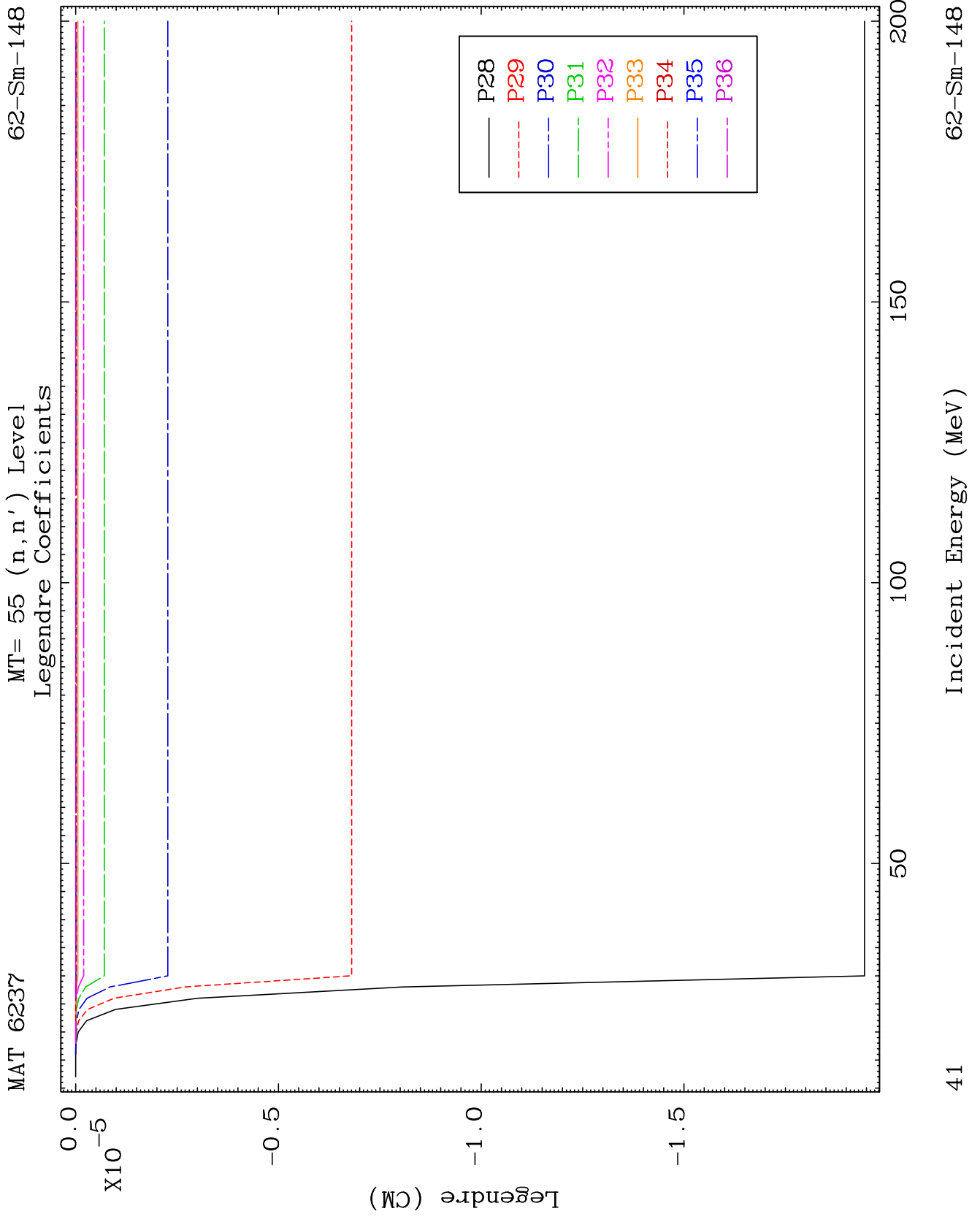
62-Sm-148



40

Incident Energy (MeV)

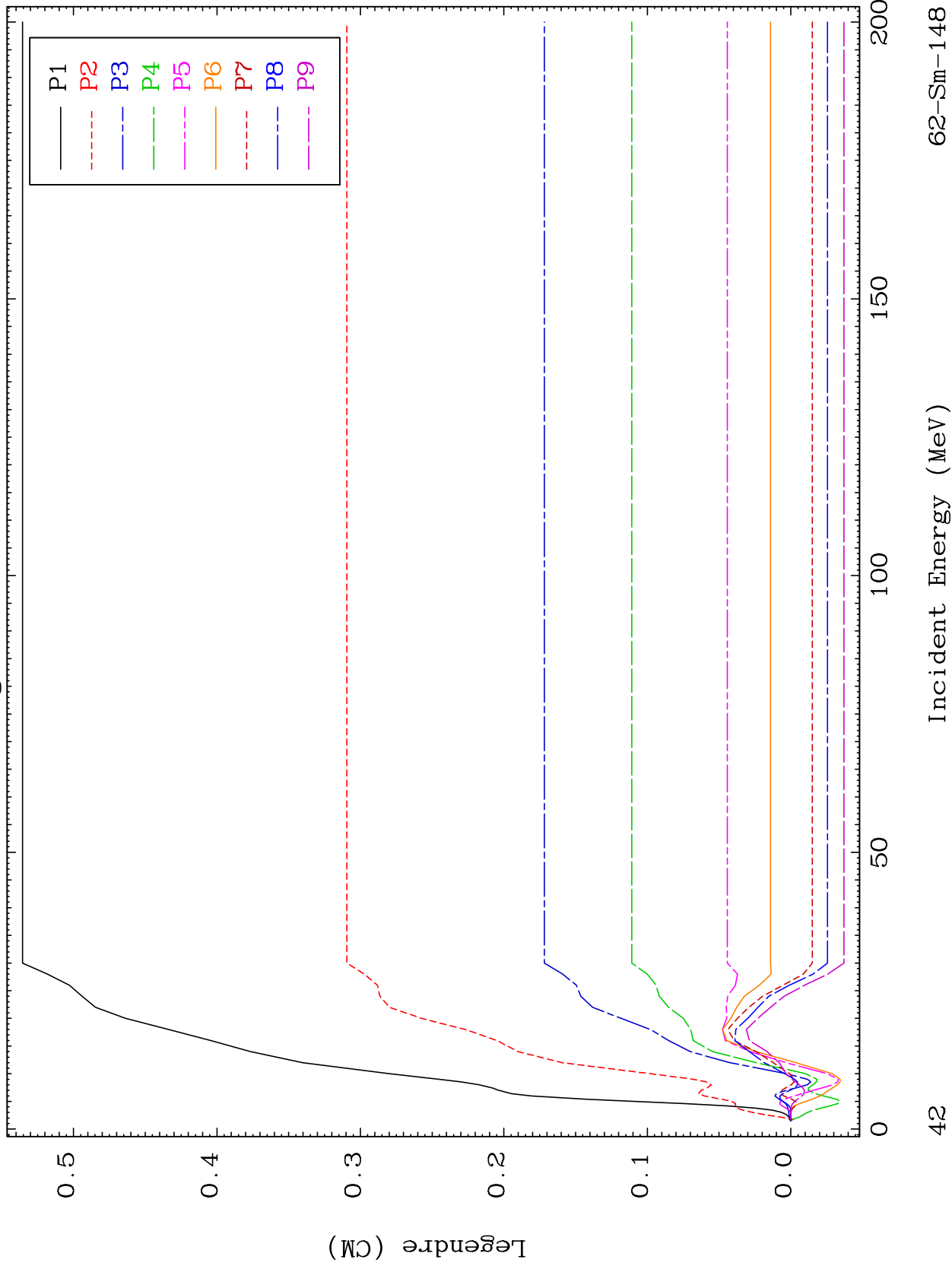
62-Sm-148



MAT 6237

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

62-Sm-148

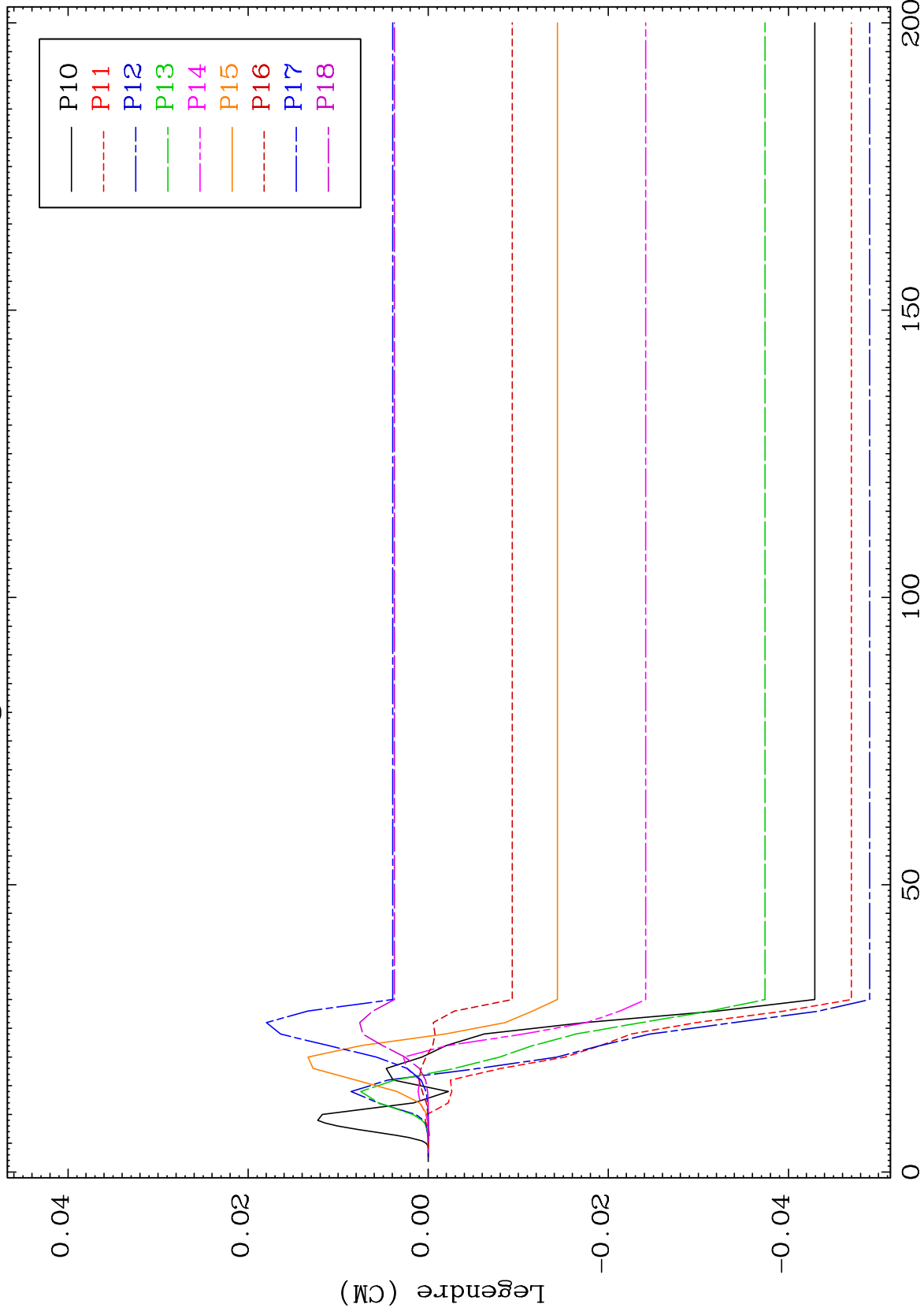


42

MAT 6237

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

62-Sm-148



43

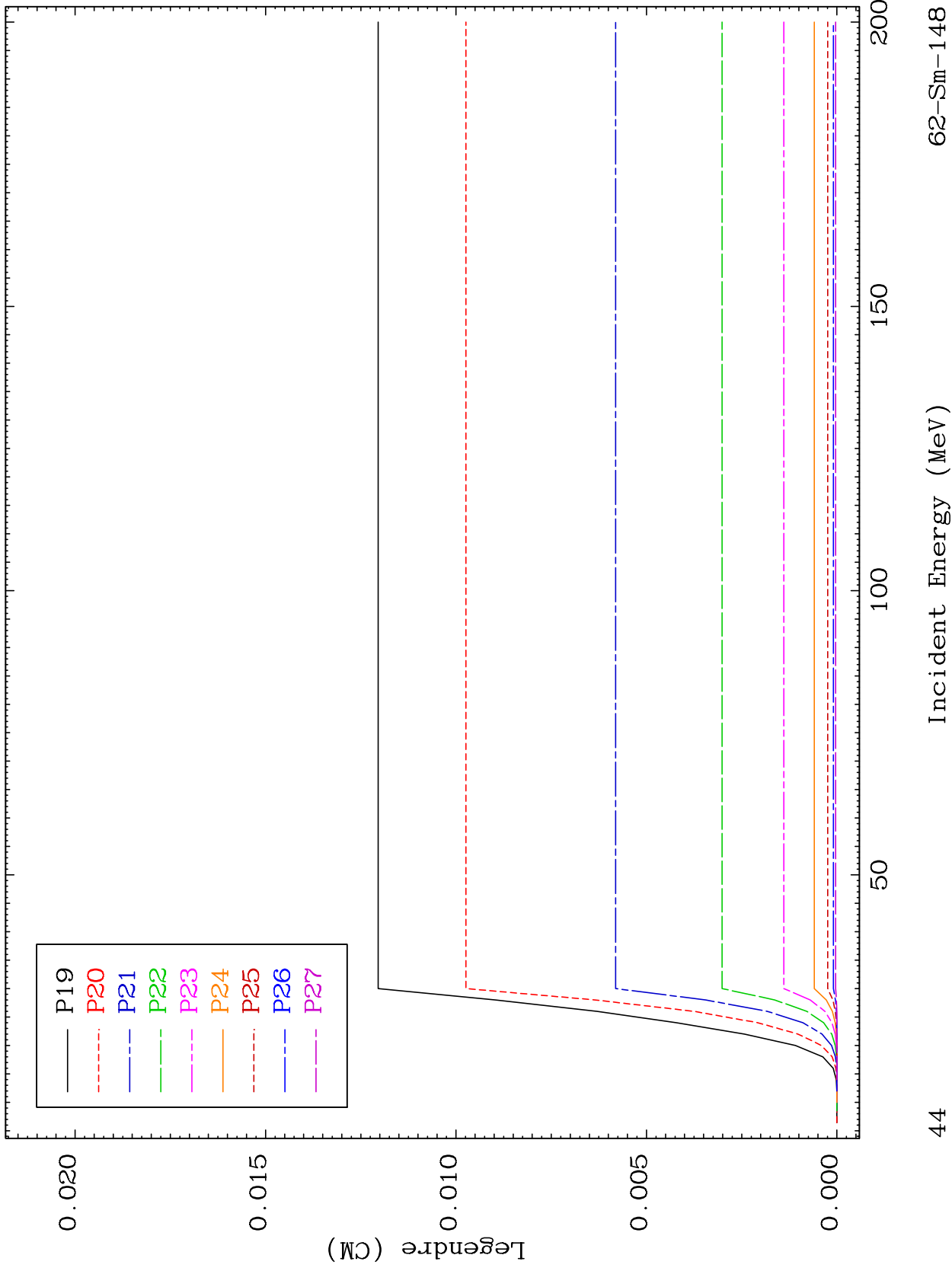
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

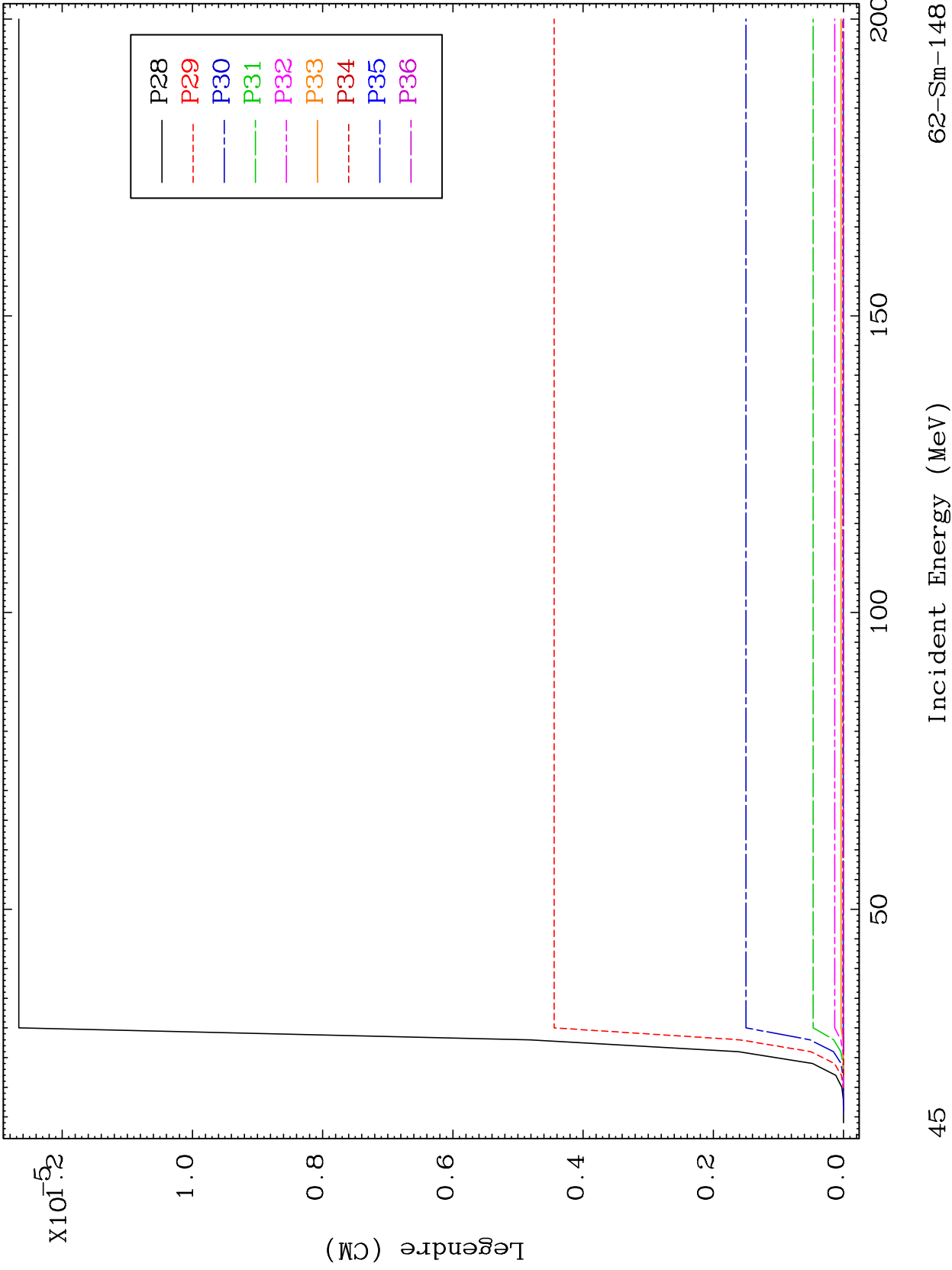
62-Sm-148



MAT 6237

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

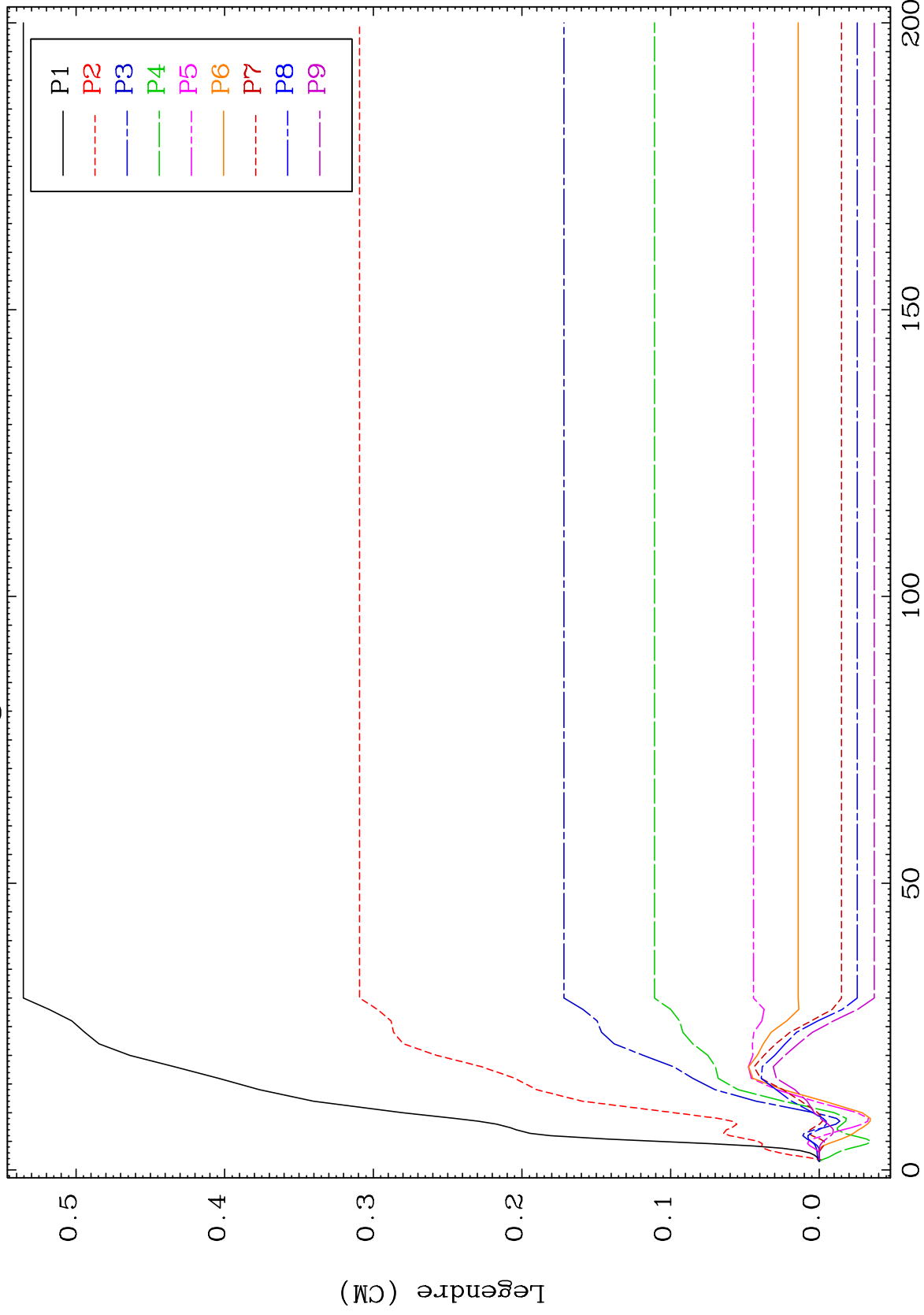
62-Sm-148



MAT 6237

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

62-Sm-148



46

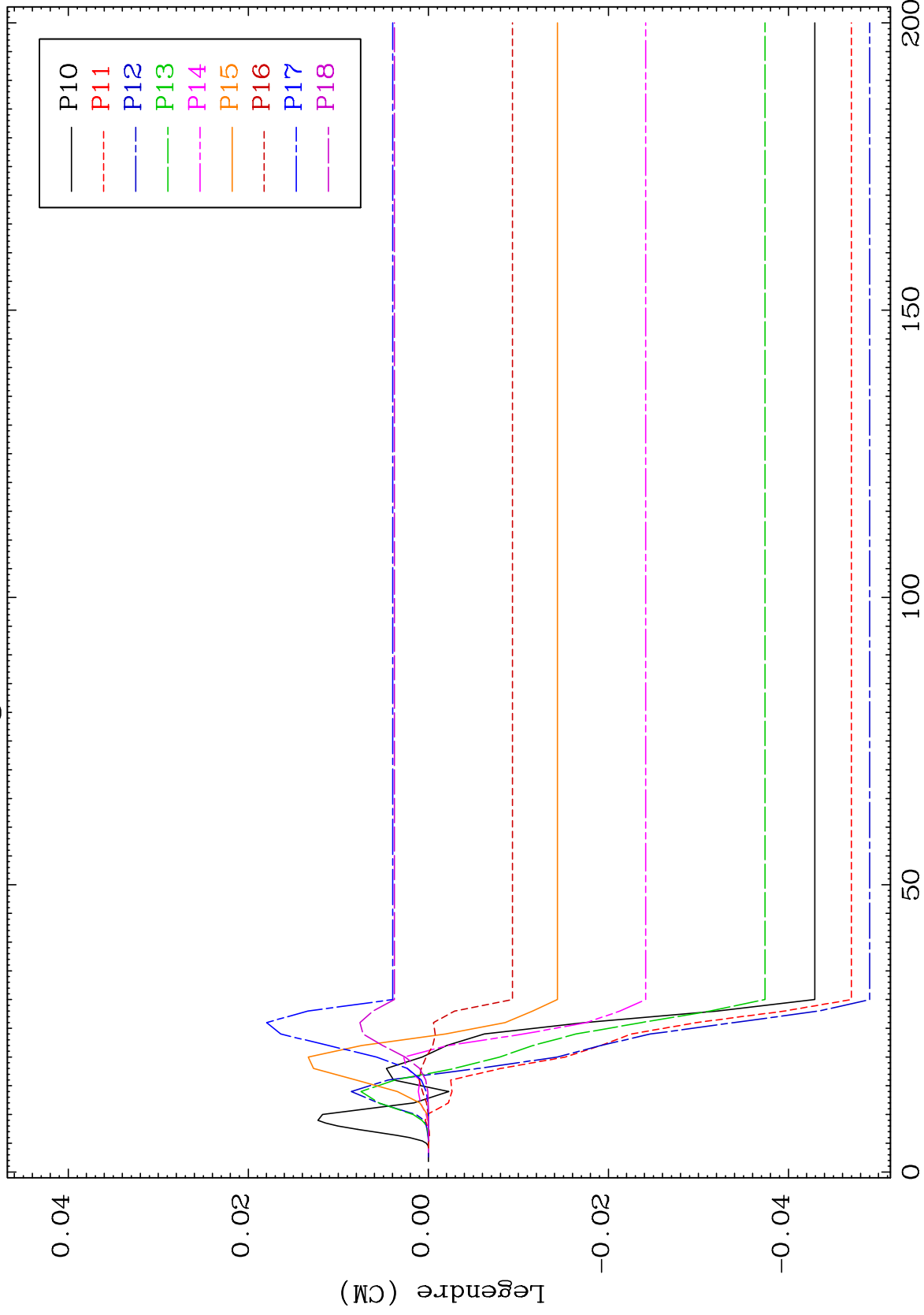
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

62-Sm-148



47

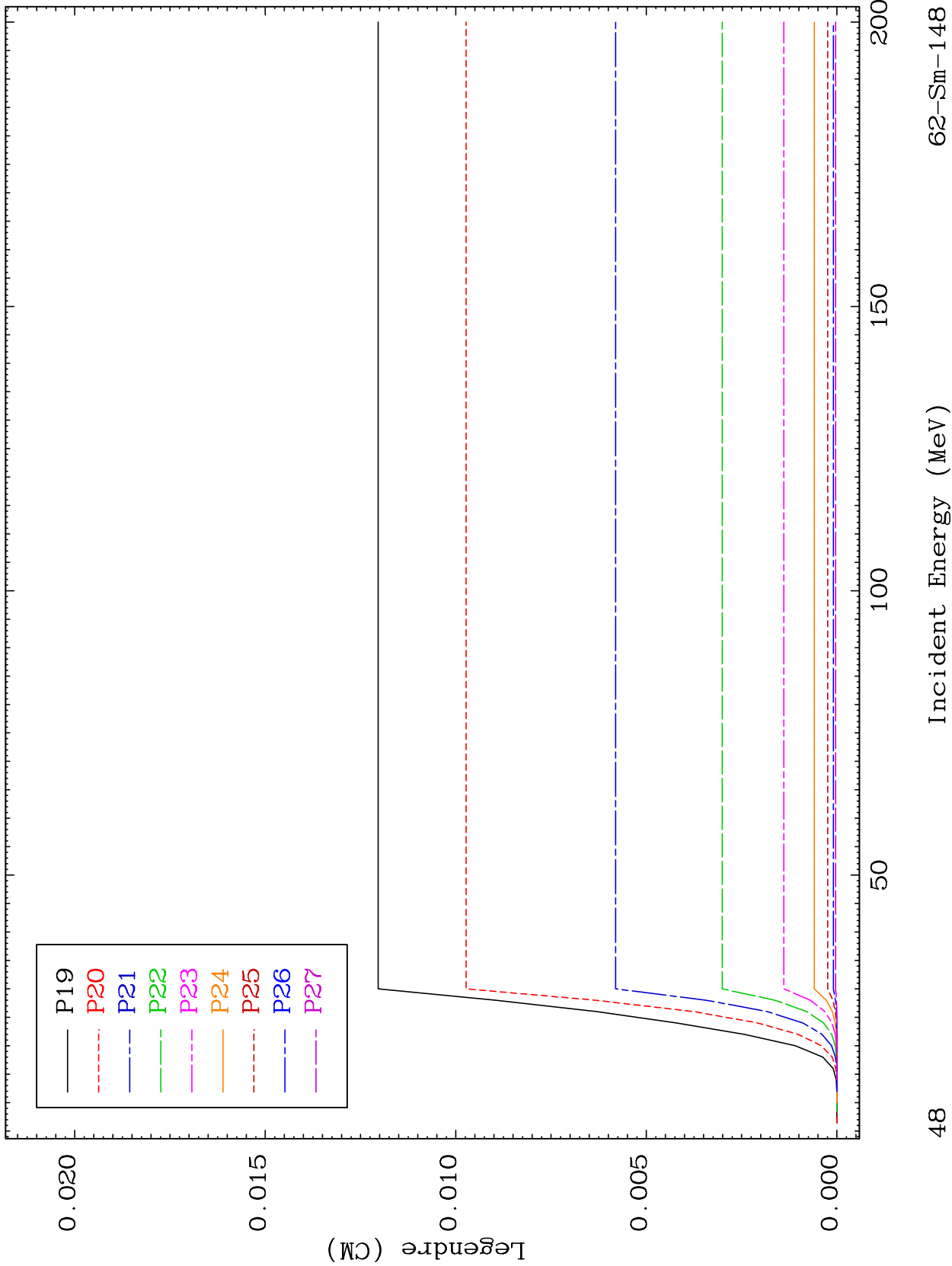
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

62-Sm-148



48

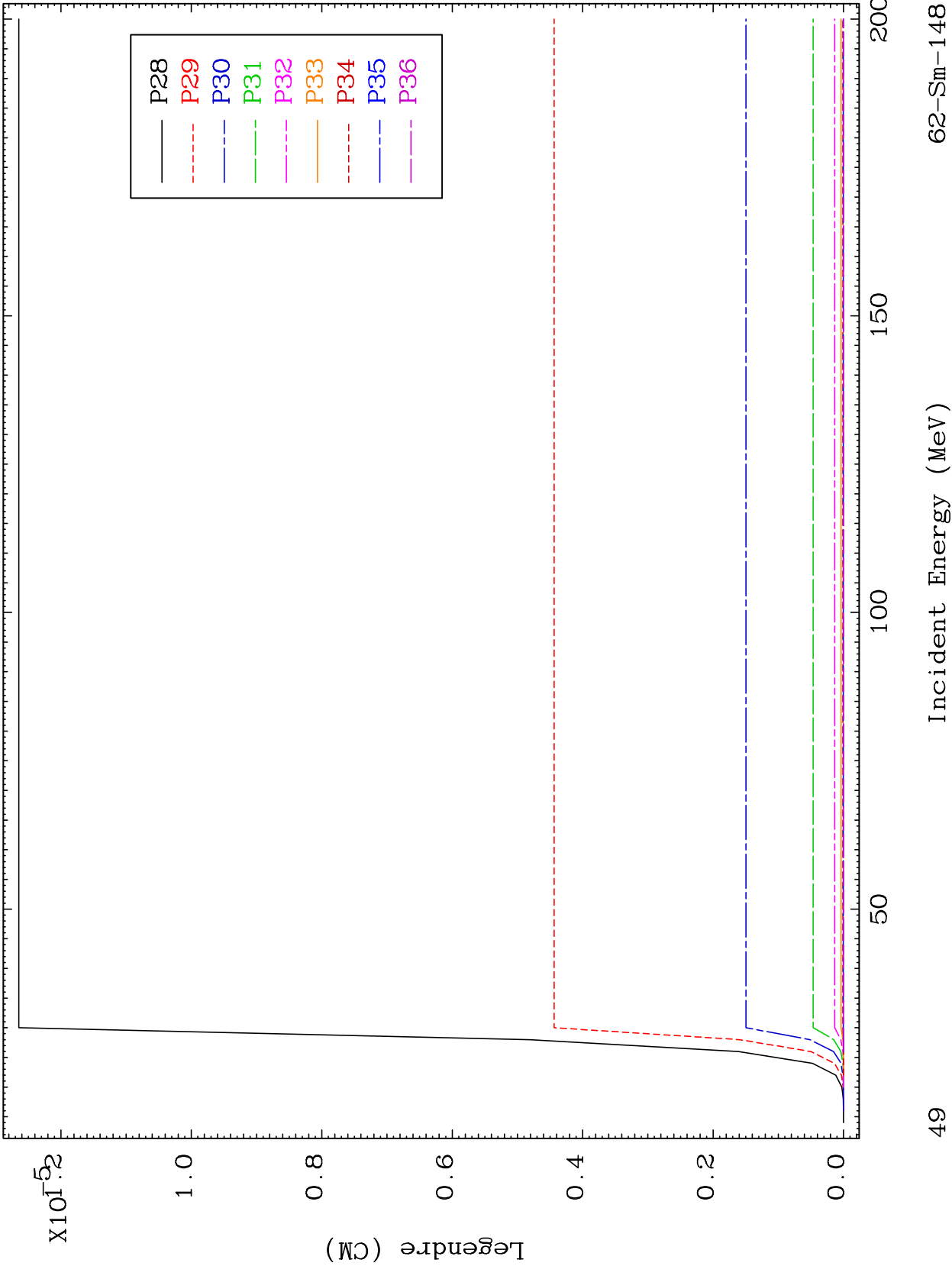
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

62-Sm-148

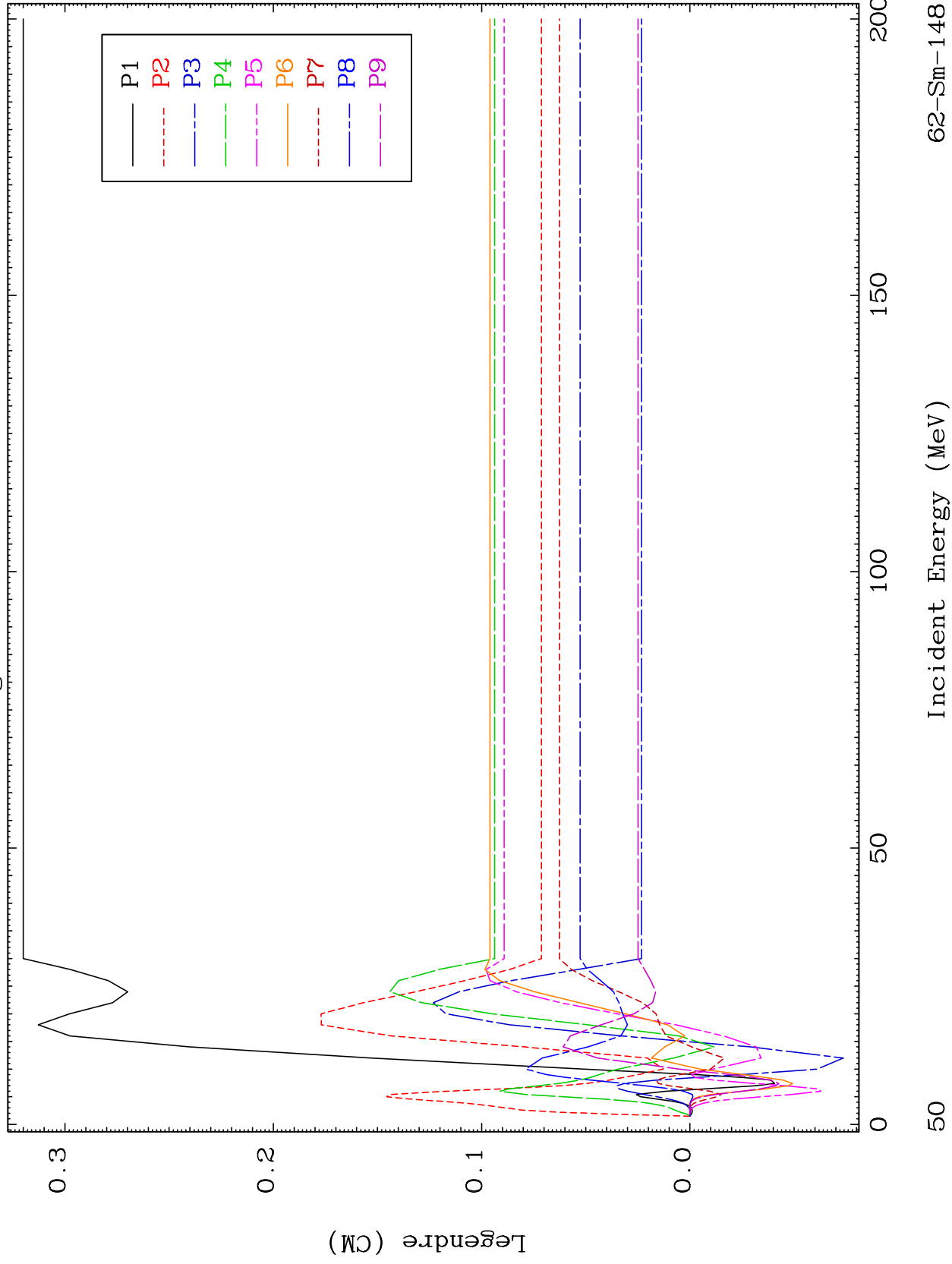


49

MAT 6237

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

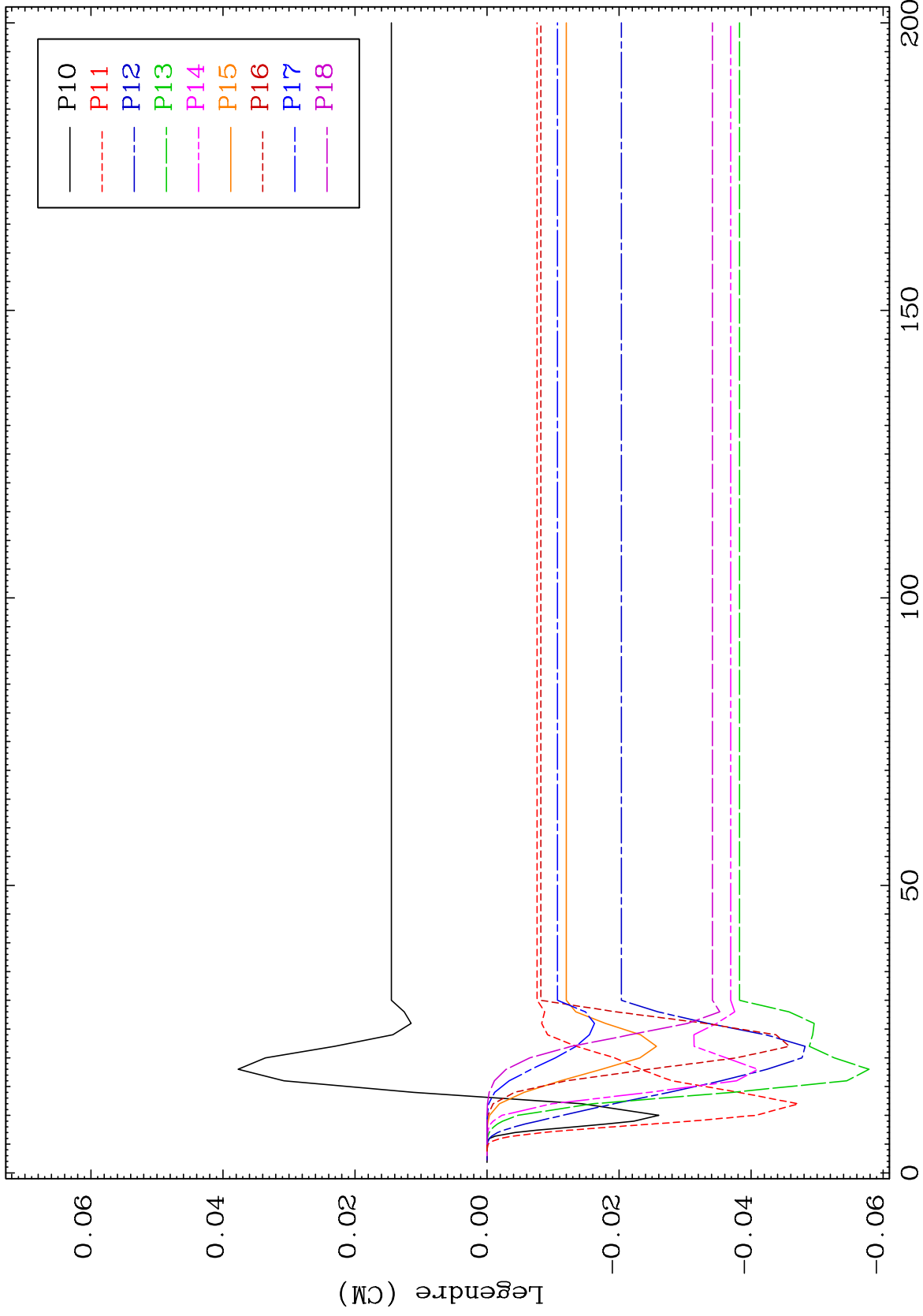
62-Sm-148



MAT 6237

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

62-Sm-148



51

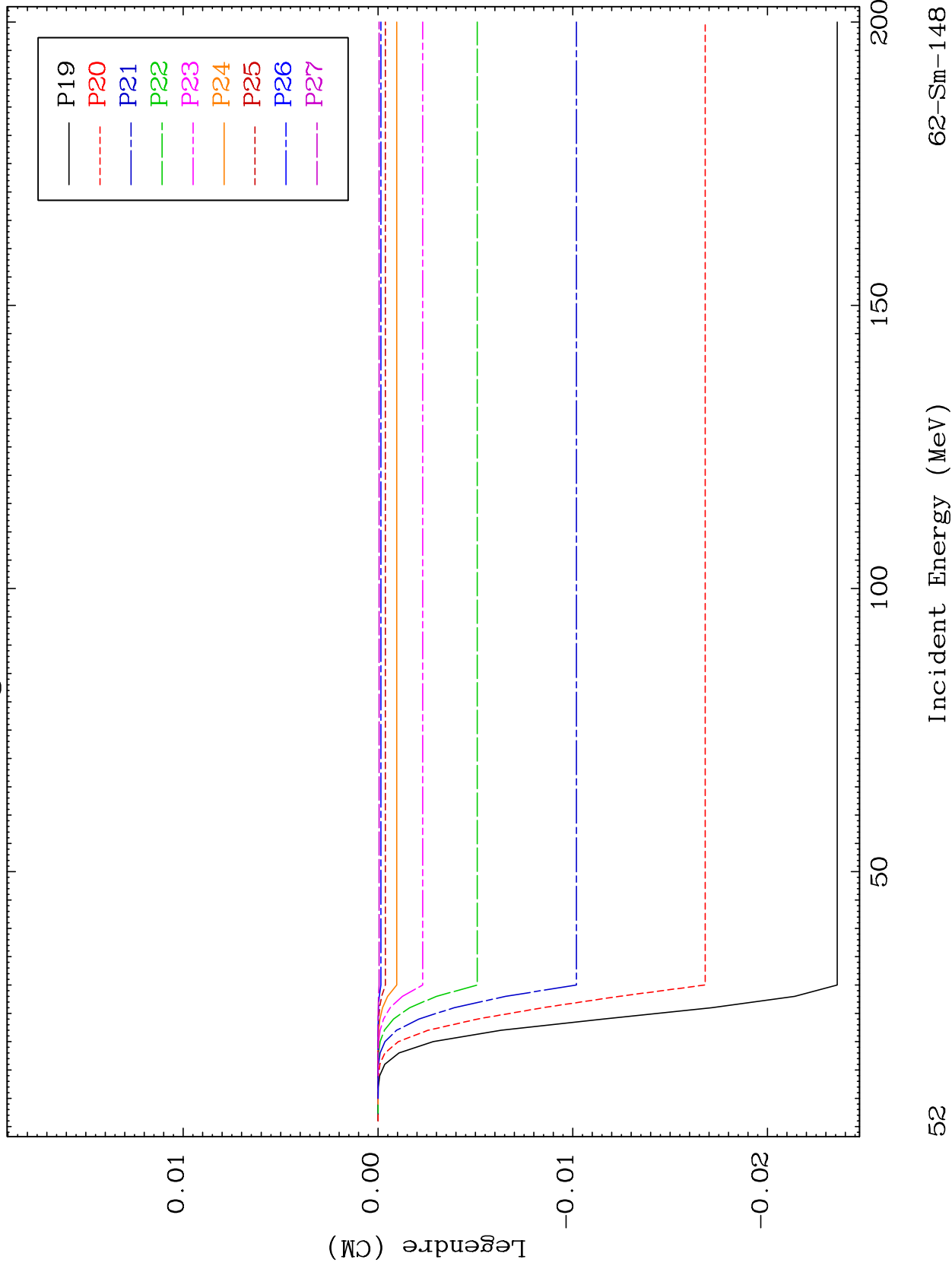
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

62-Sm-148



52

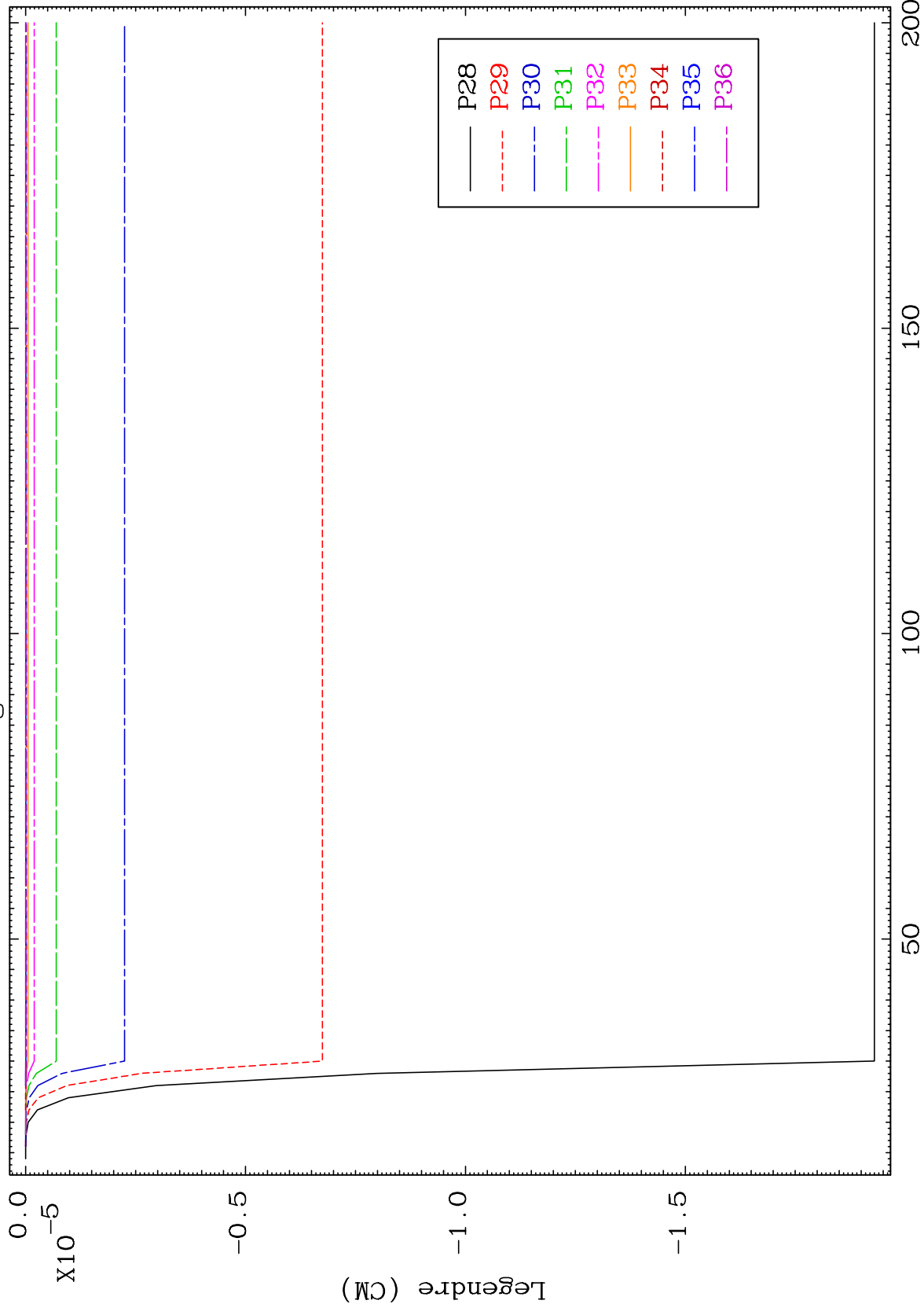
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

62-Sm-148



53

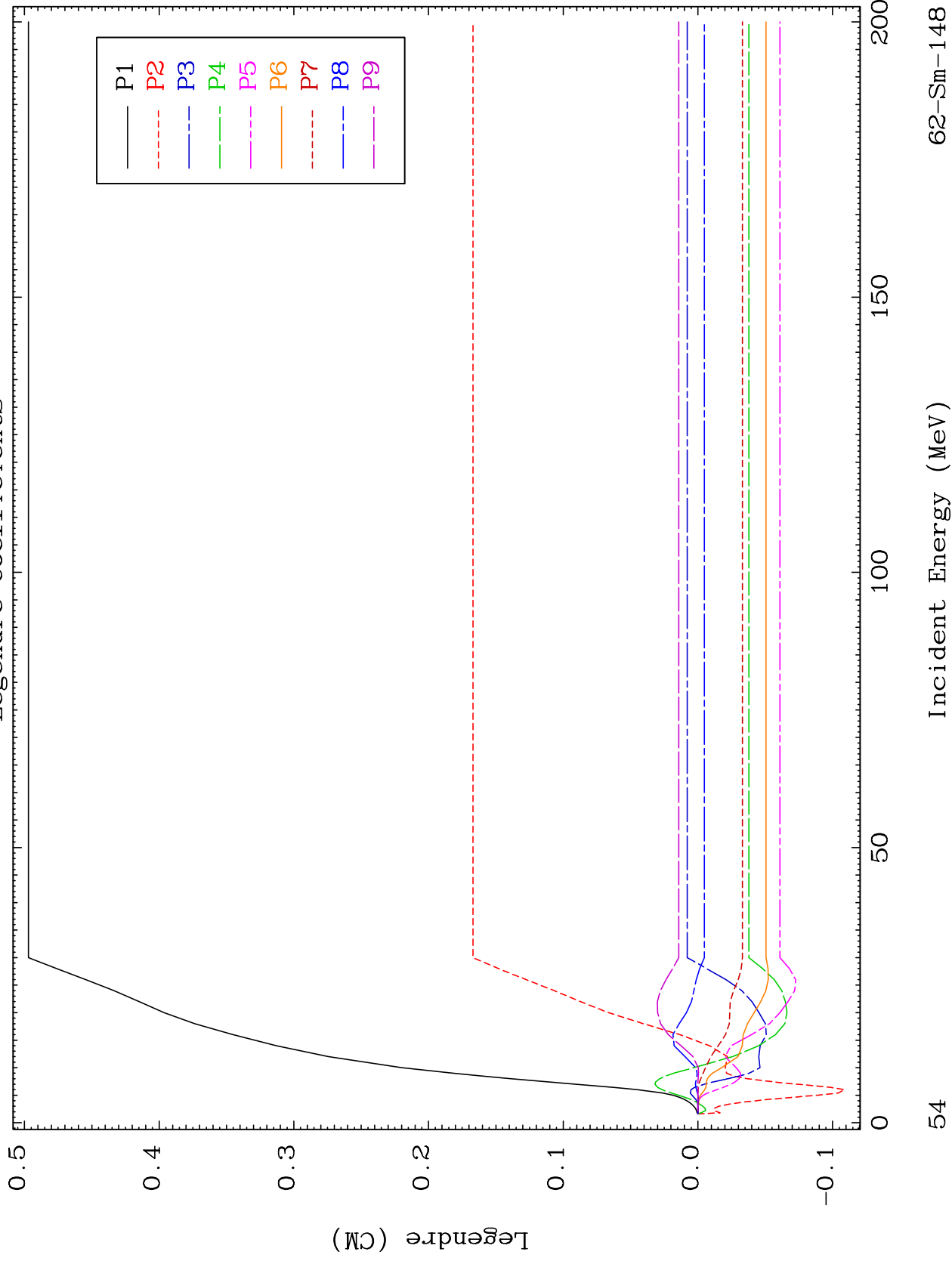
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

62-Sm-148



62-Sm-148

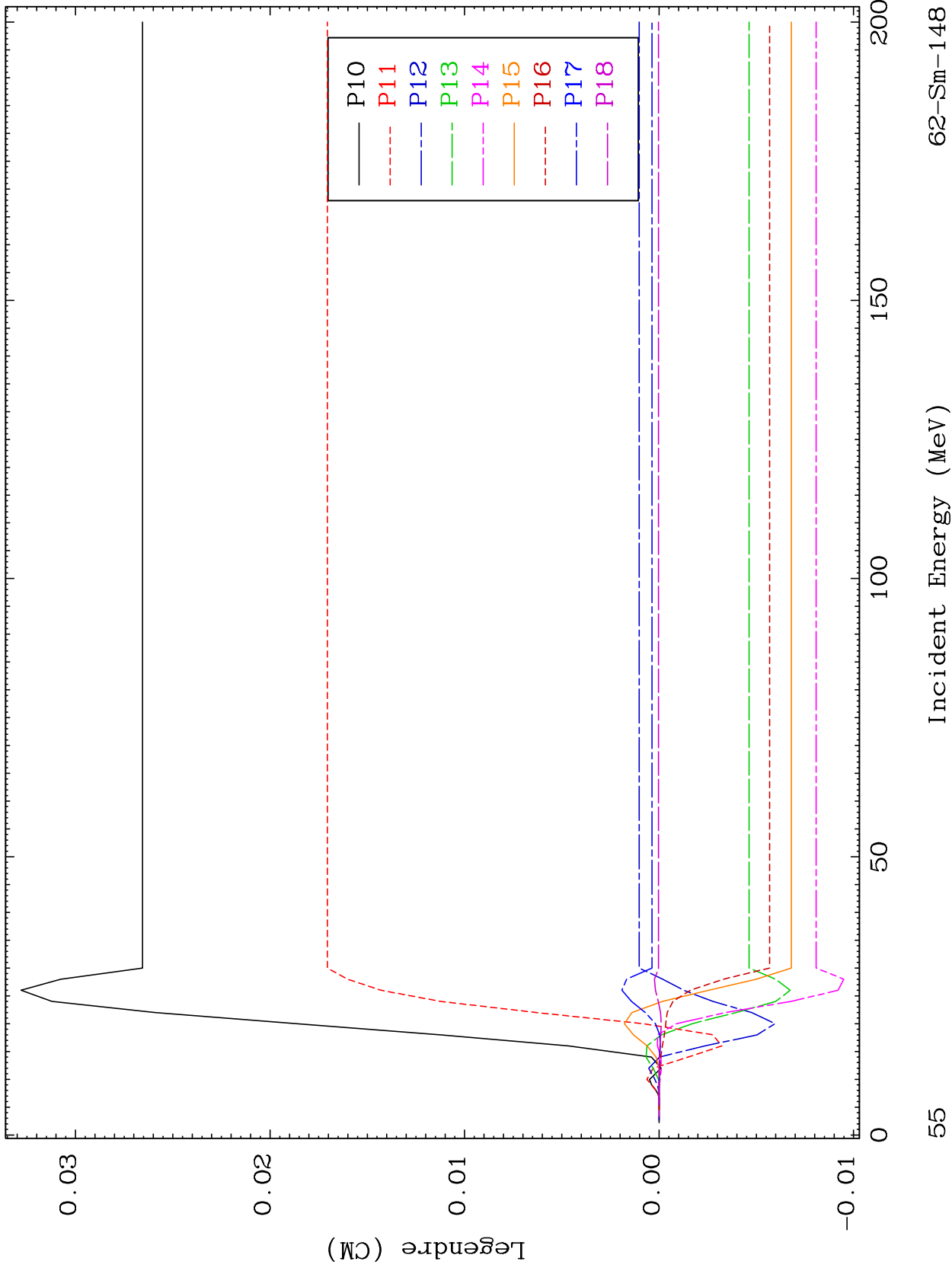
Incident Energy (MeV)

54

MAT 6237

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

62-Sm-148



62-Sm-148

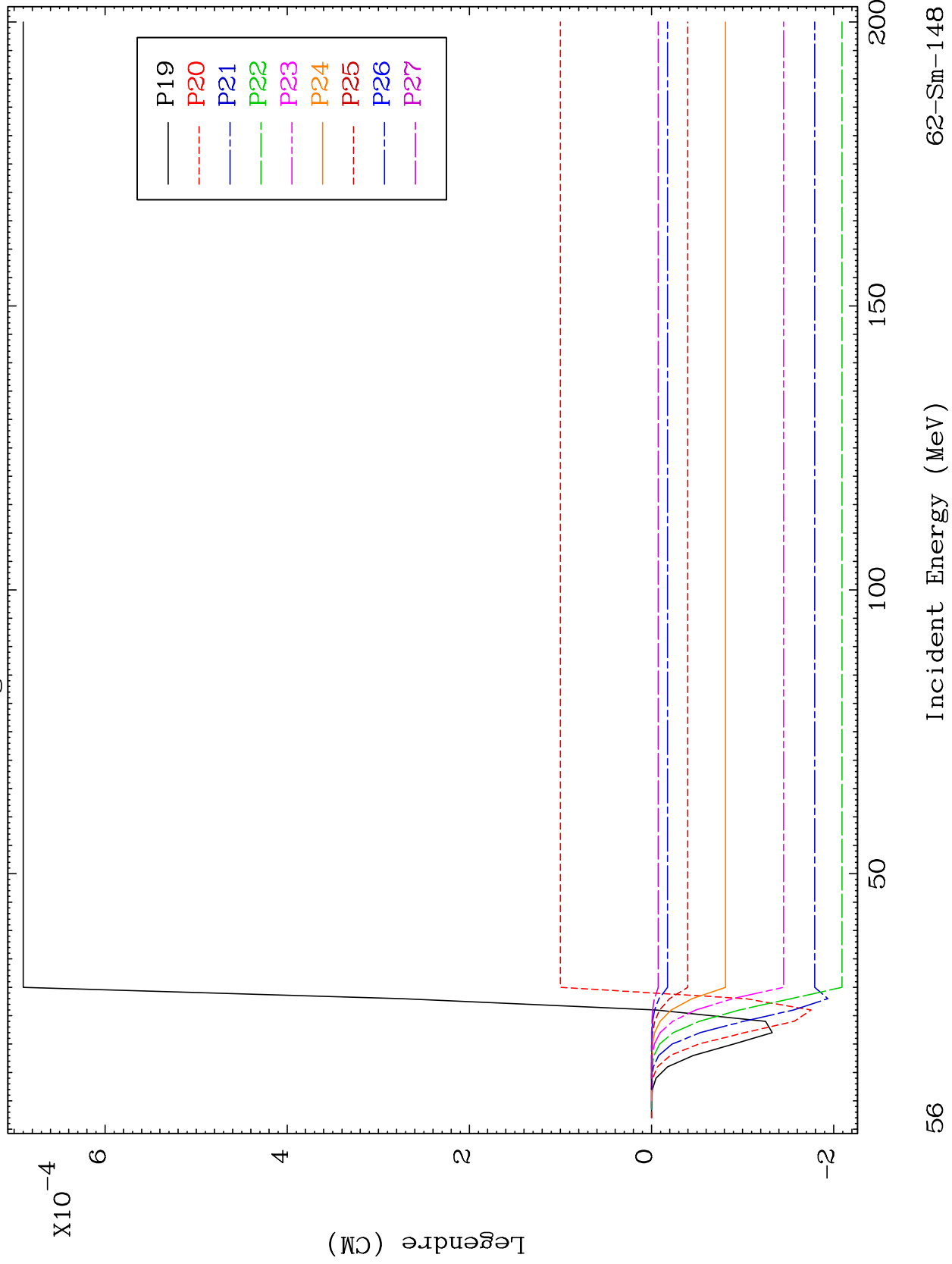
Incident Energy (MeV)

55

MAT 6237

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

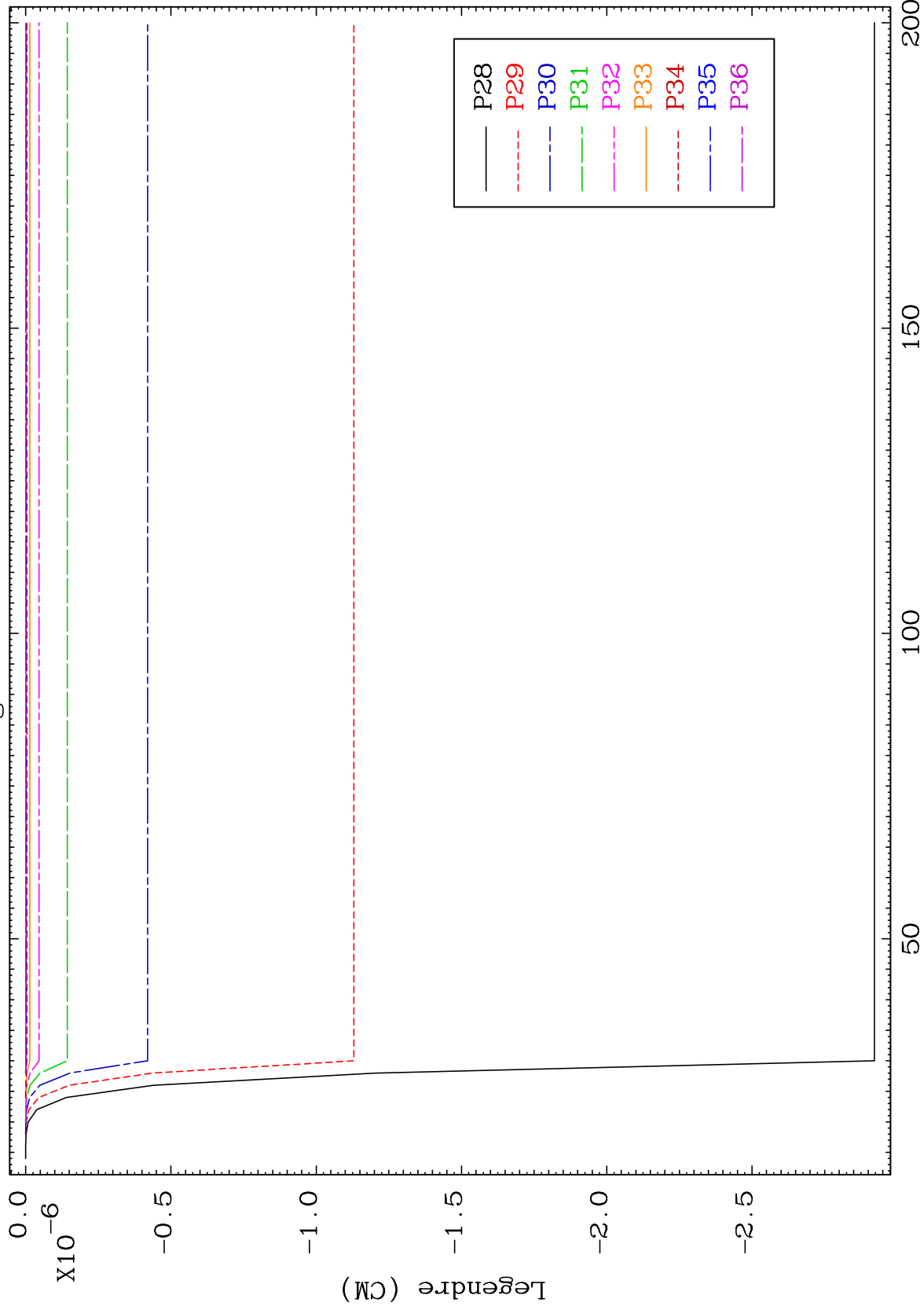
62-Sm-148



MAT 6237

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

62-Sm-148



57

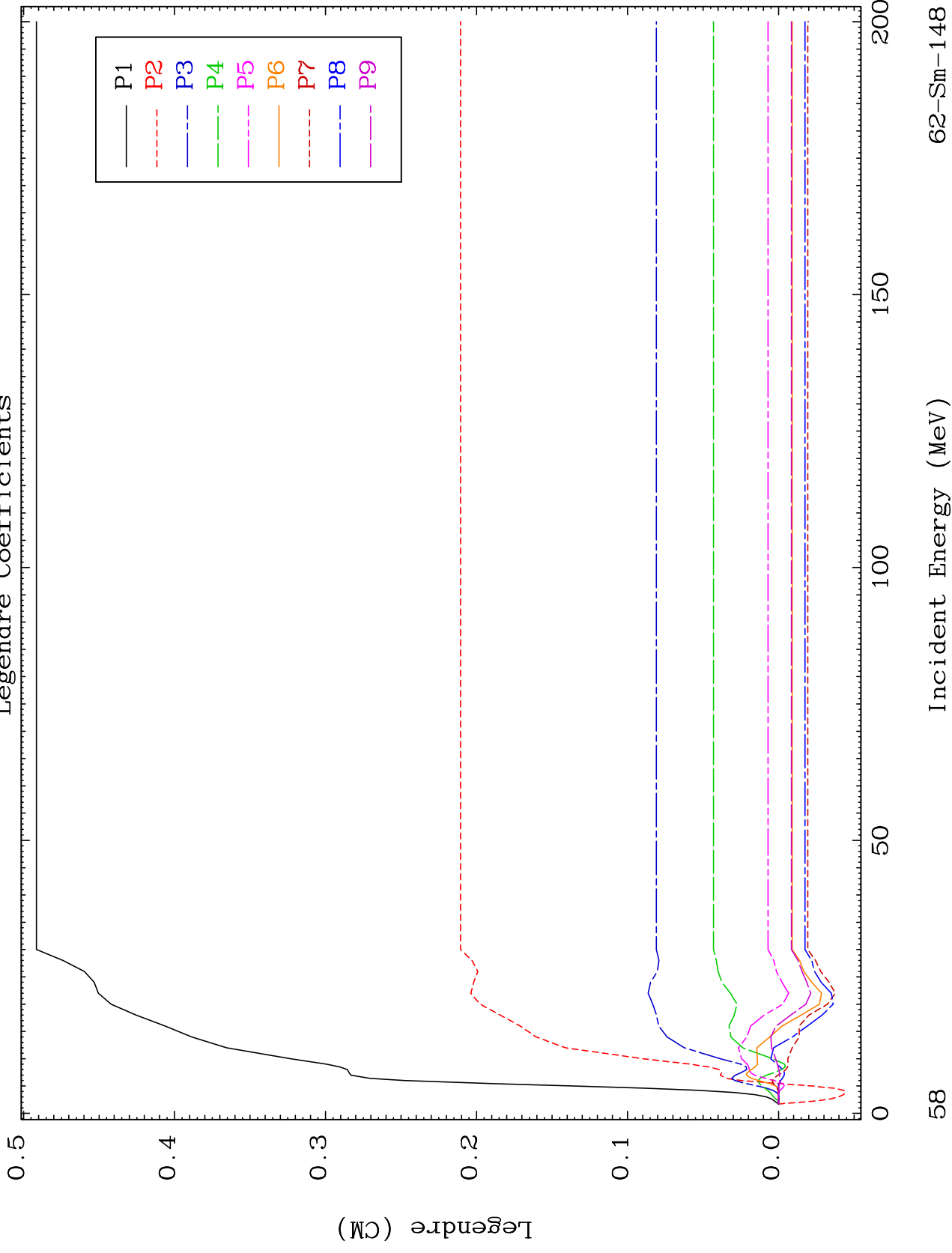
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

62-Sm-148



62-Sm-148

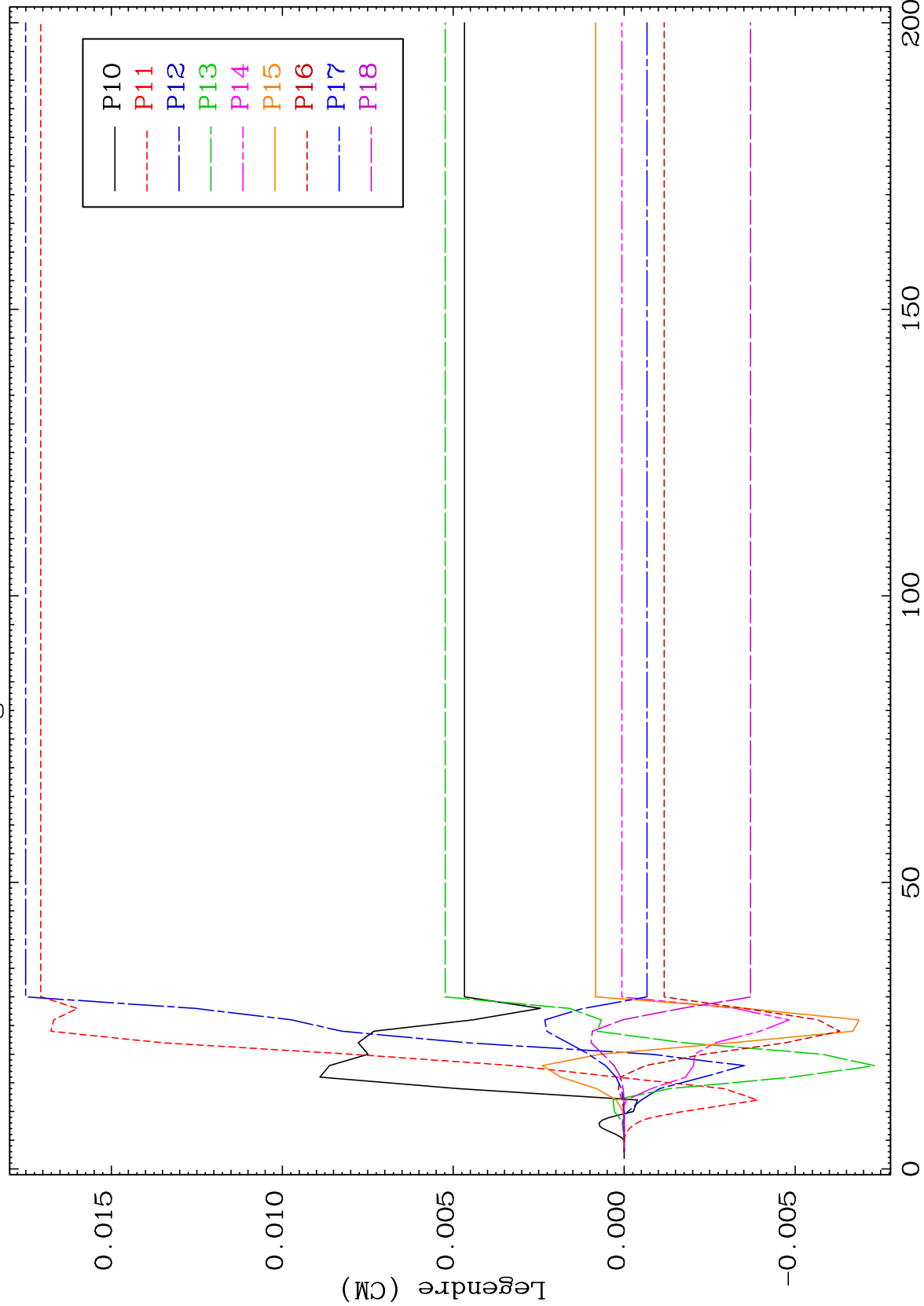
Incident Energy (MeV)

58

MAT 6237

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

62-Sm-148



59

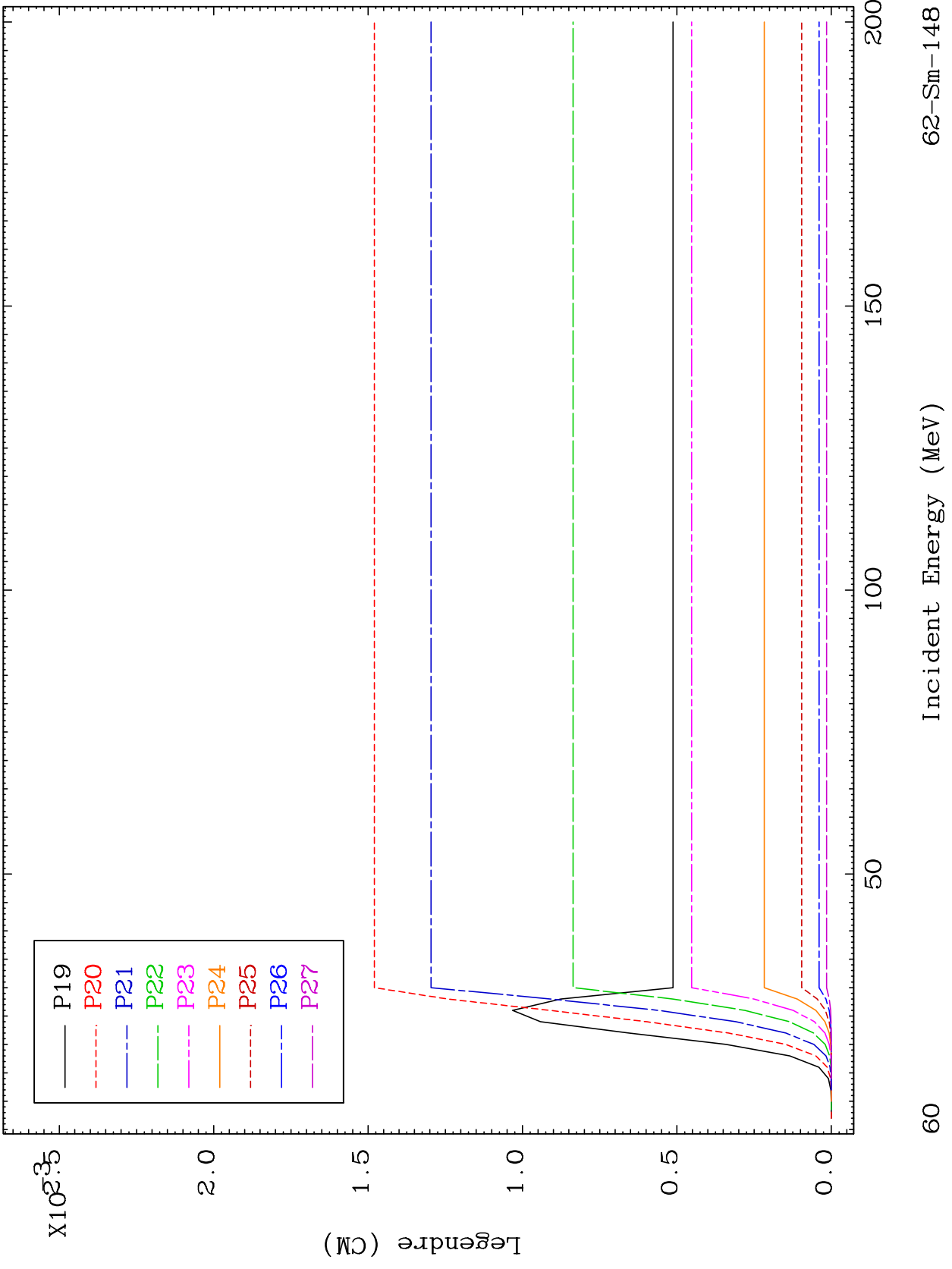
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

62-Sm-148



60

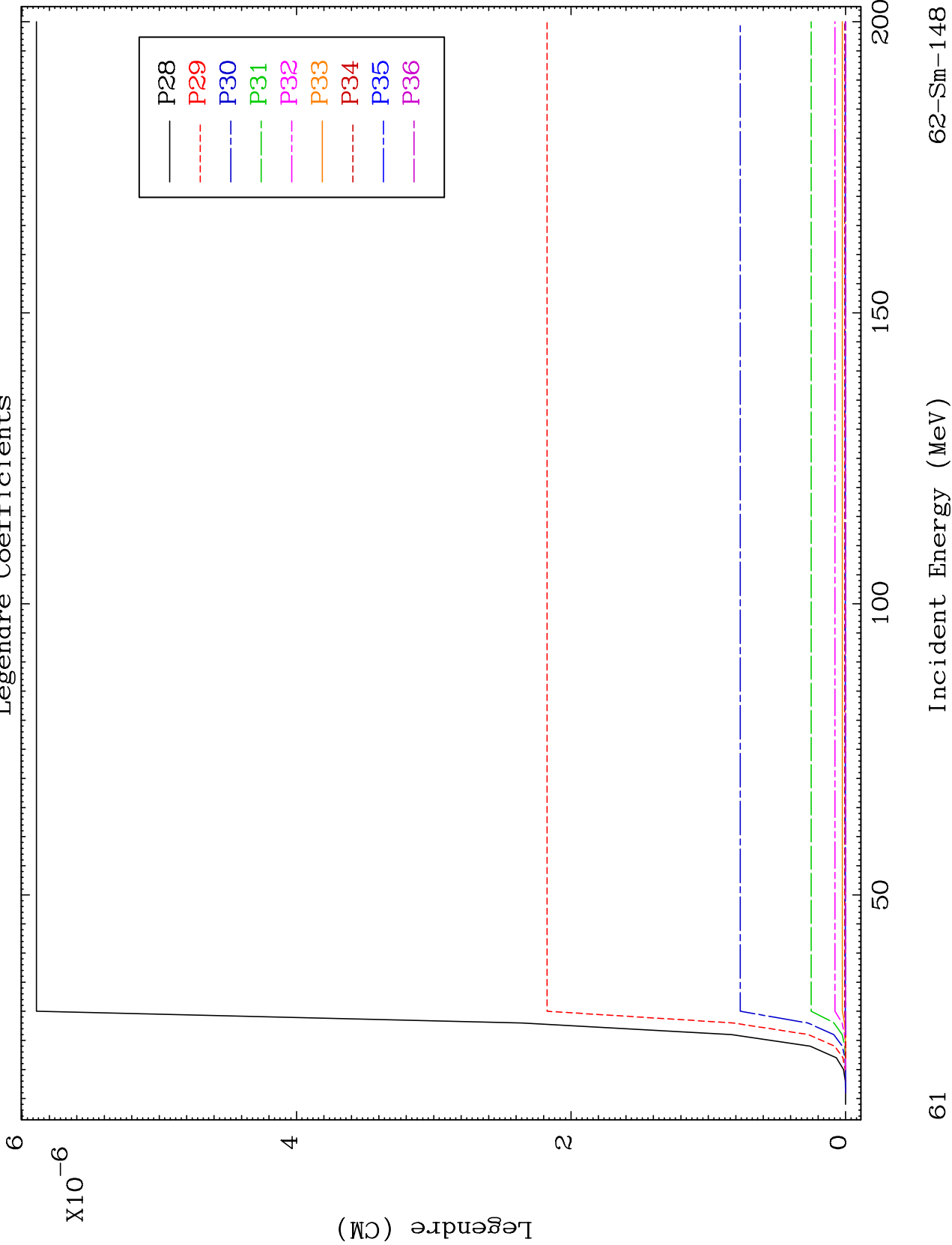
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

62-Sm-148



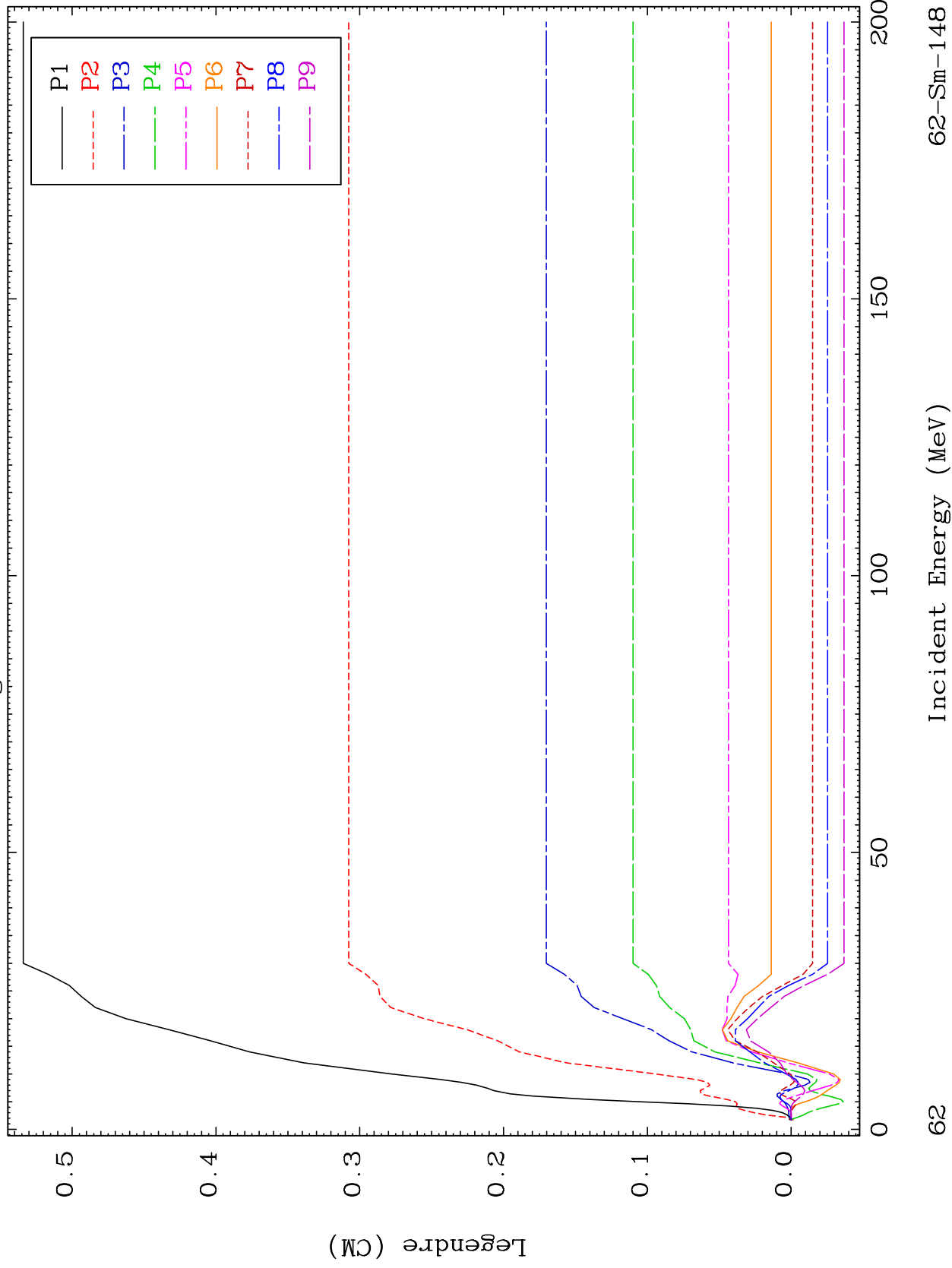
61

62-Sm-148

MAT 6237

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

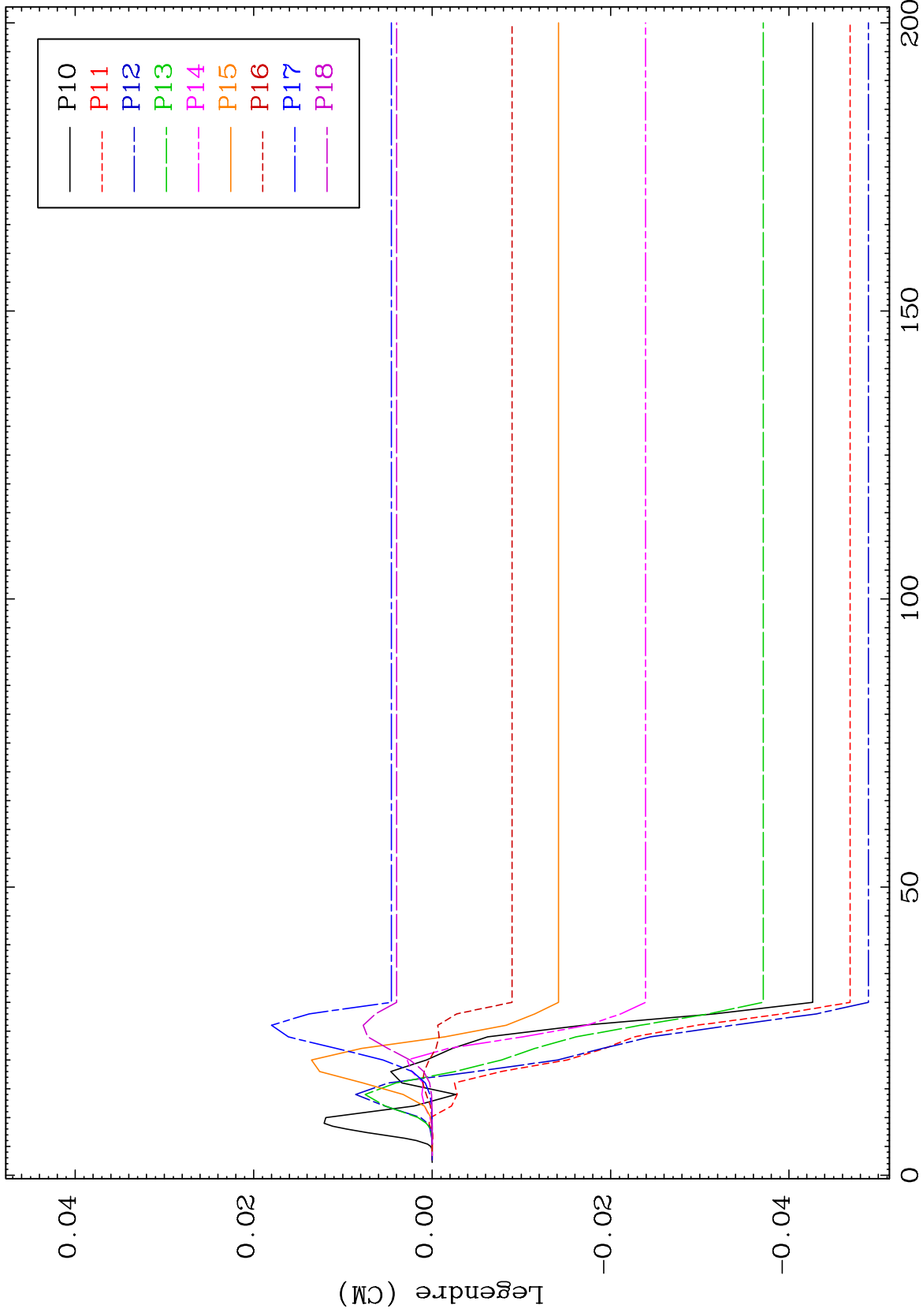
62-Sm-148



MAT 6237

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

62-Sm-148



63

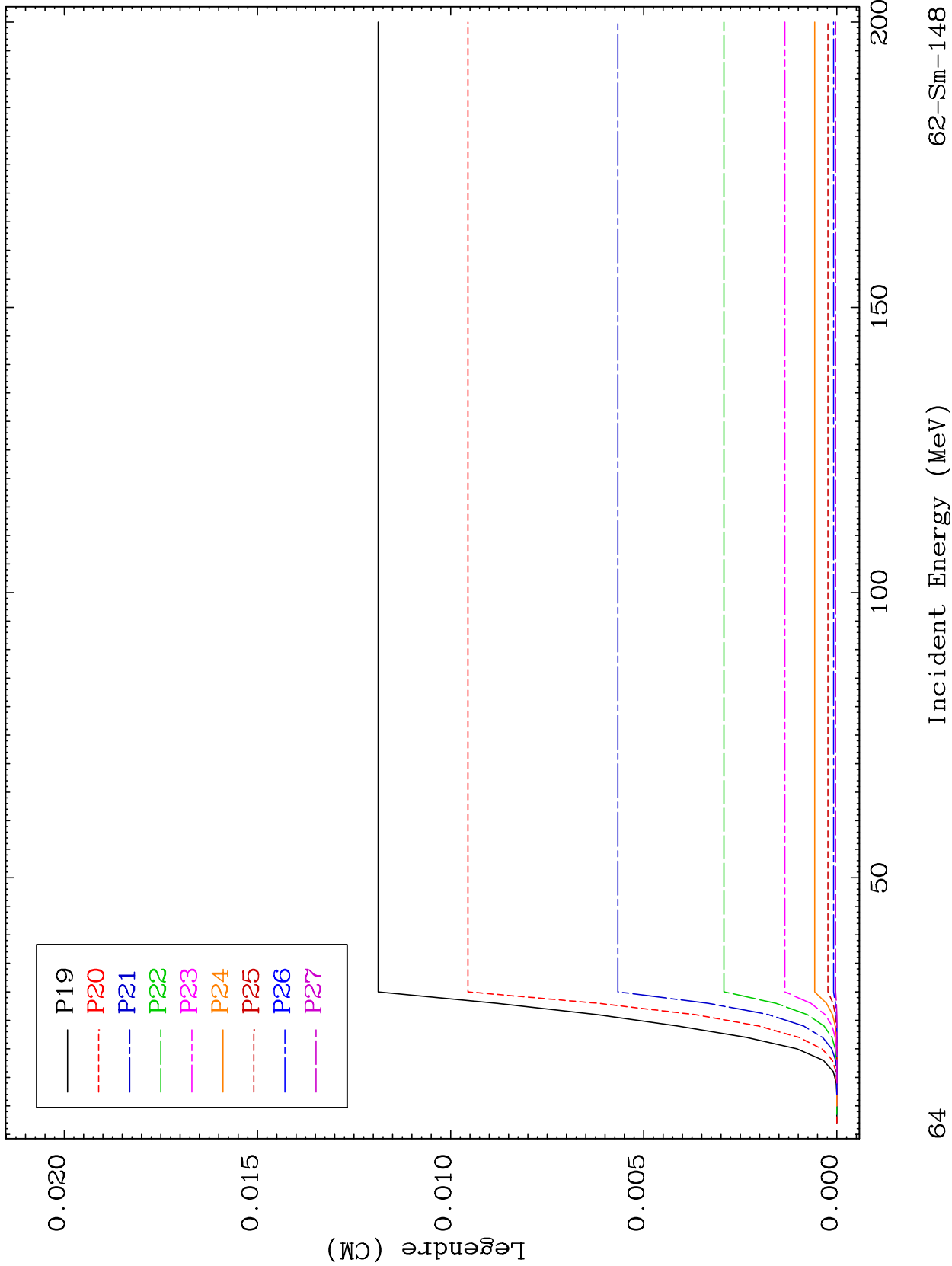
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

62-Sm-148



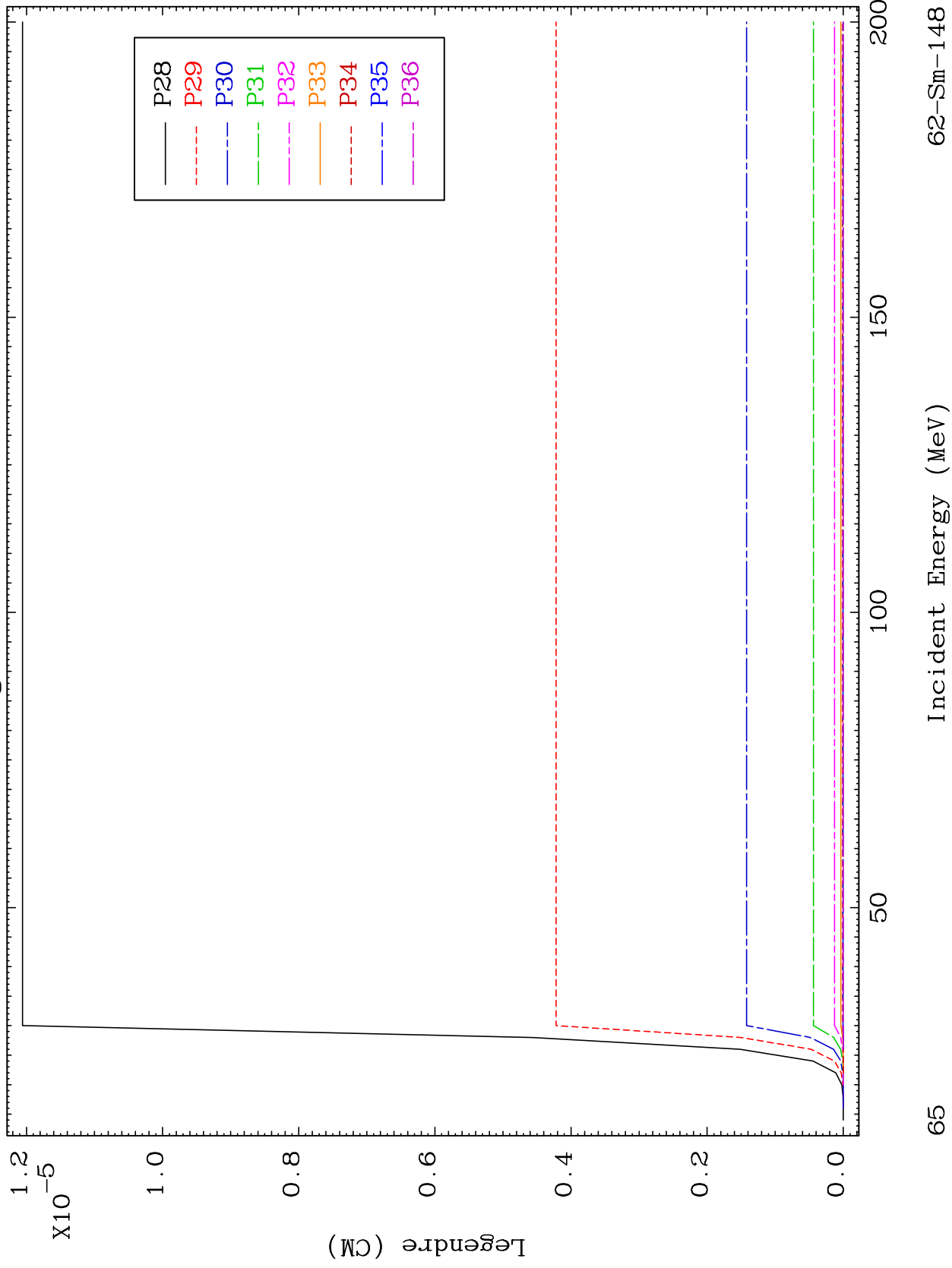
64

62-Sm-148

MAT 6237

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

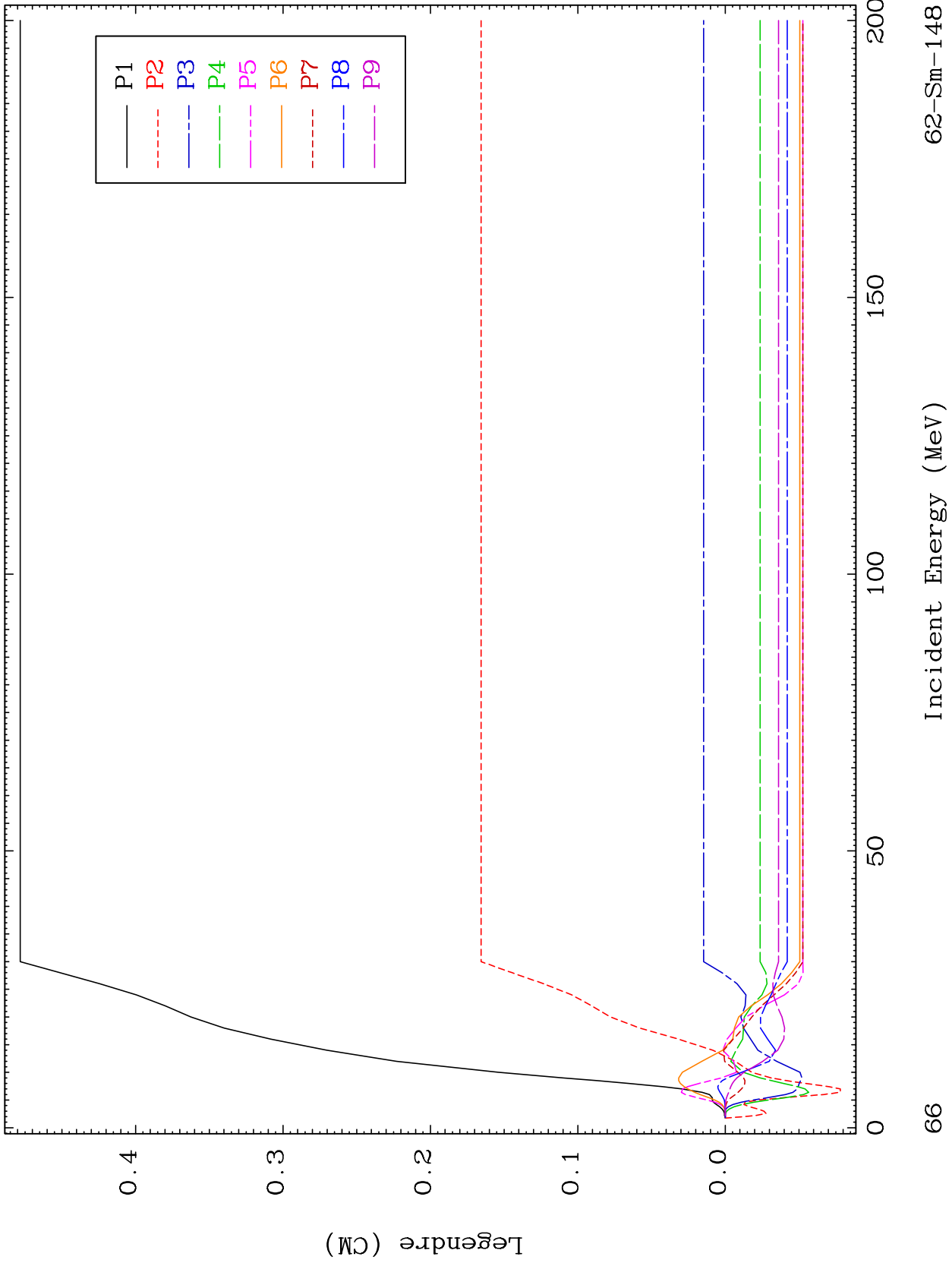
62-Sm-148



MAT 6237

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

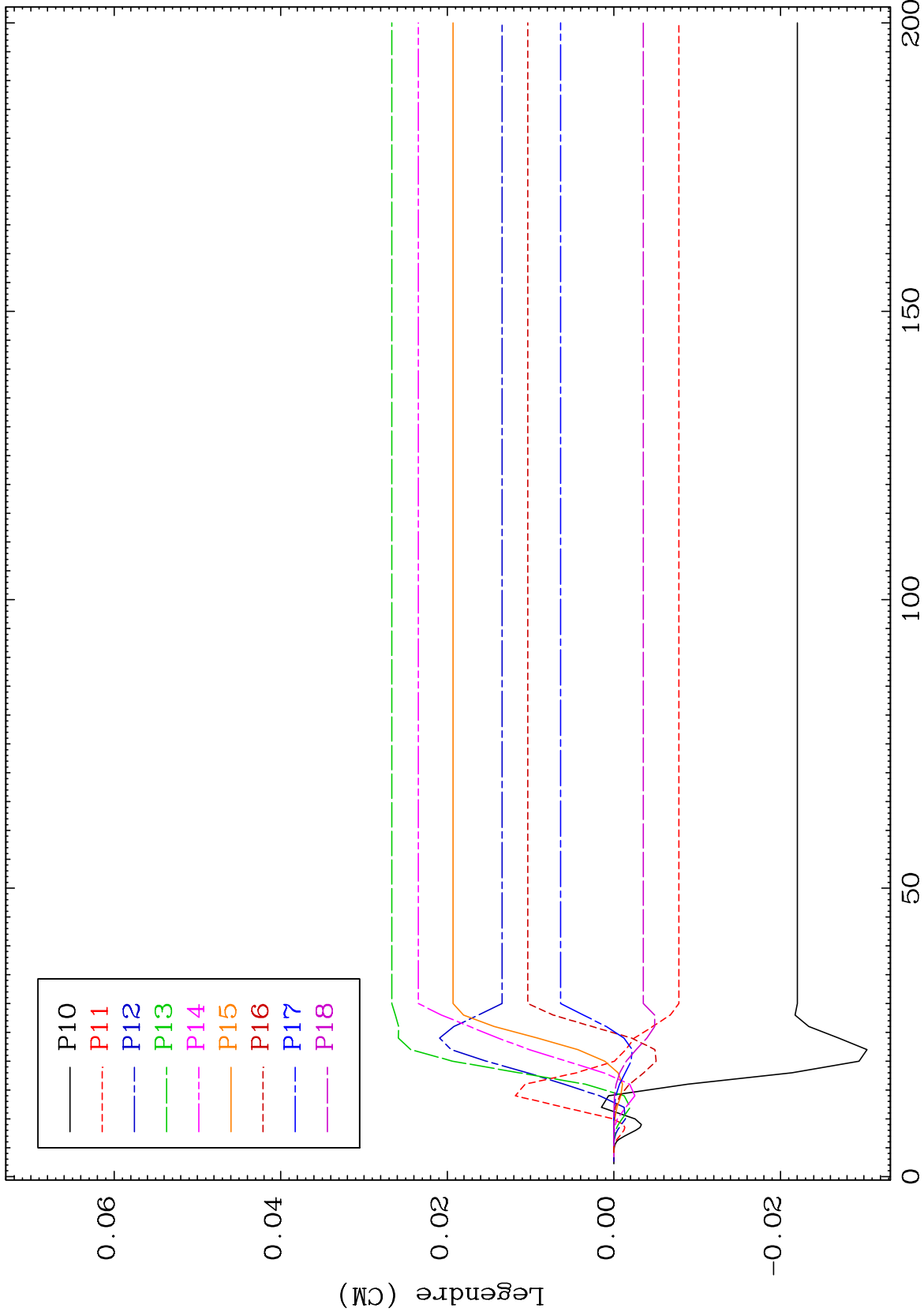
62-Sm-148



MAT 6237

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

62-Sm-148



67

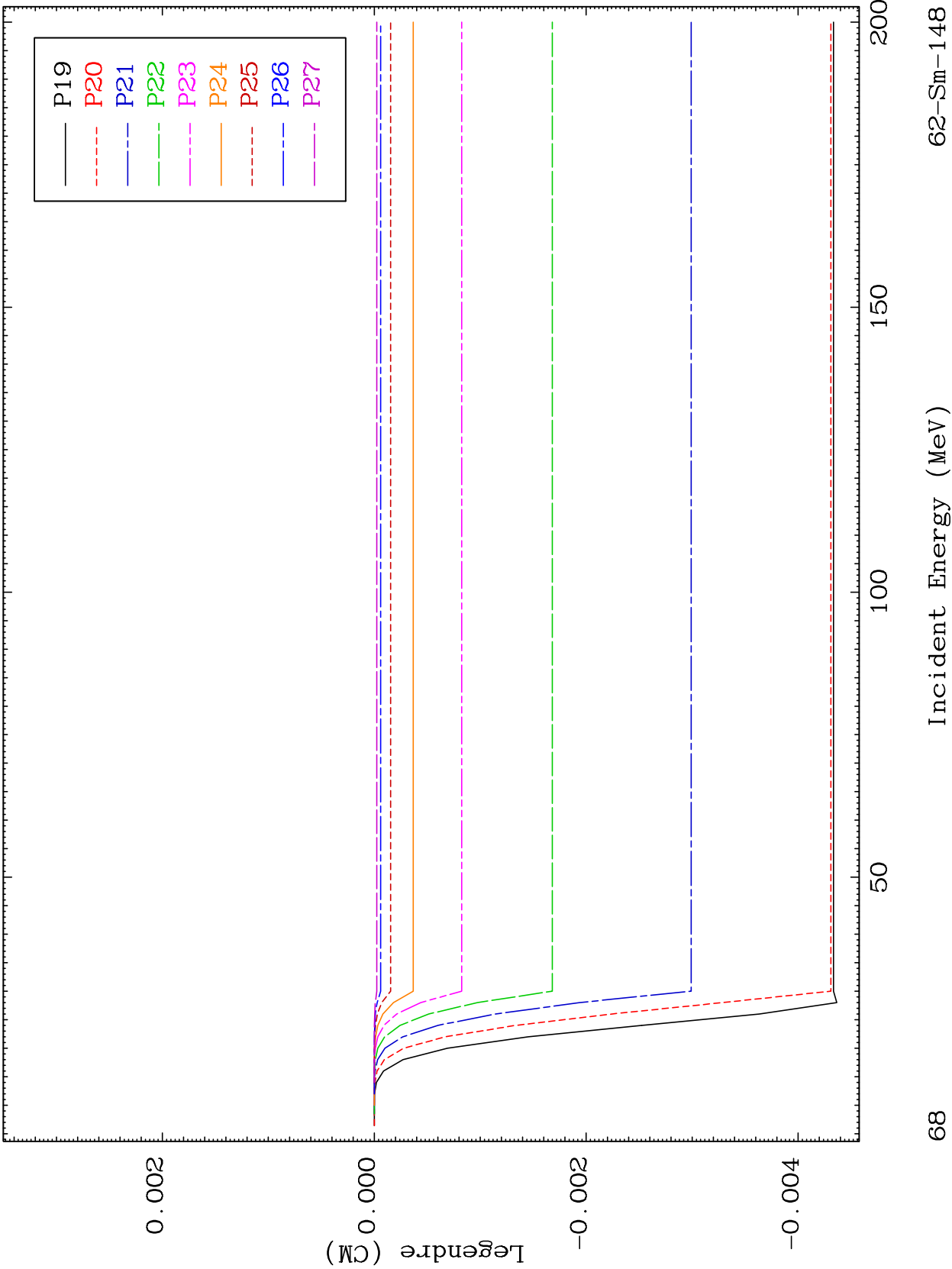
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

62-Sm-148



68

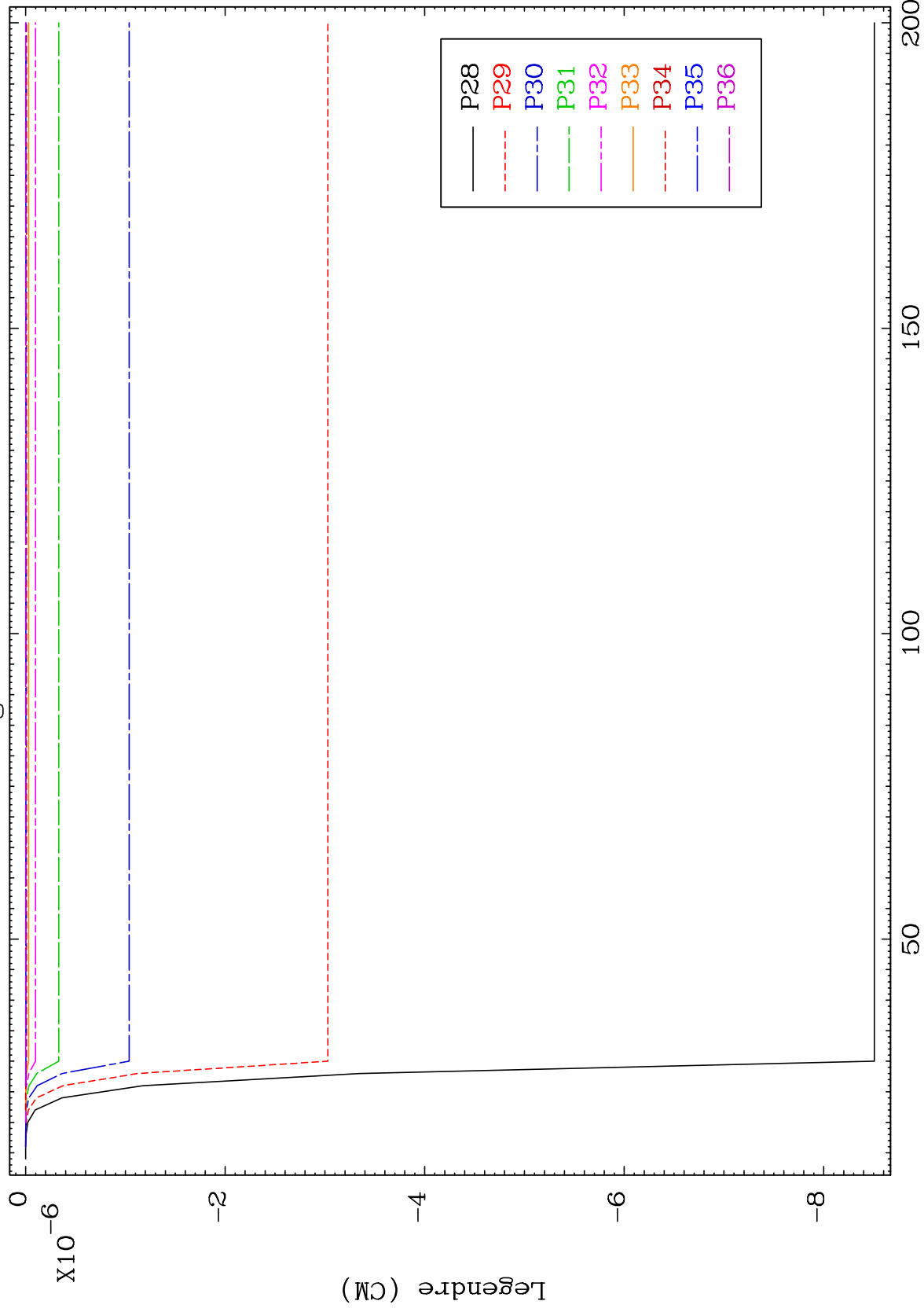
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

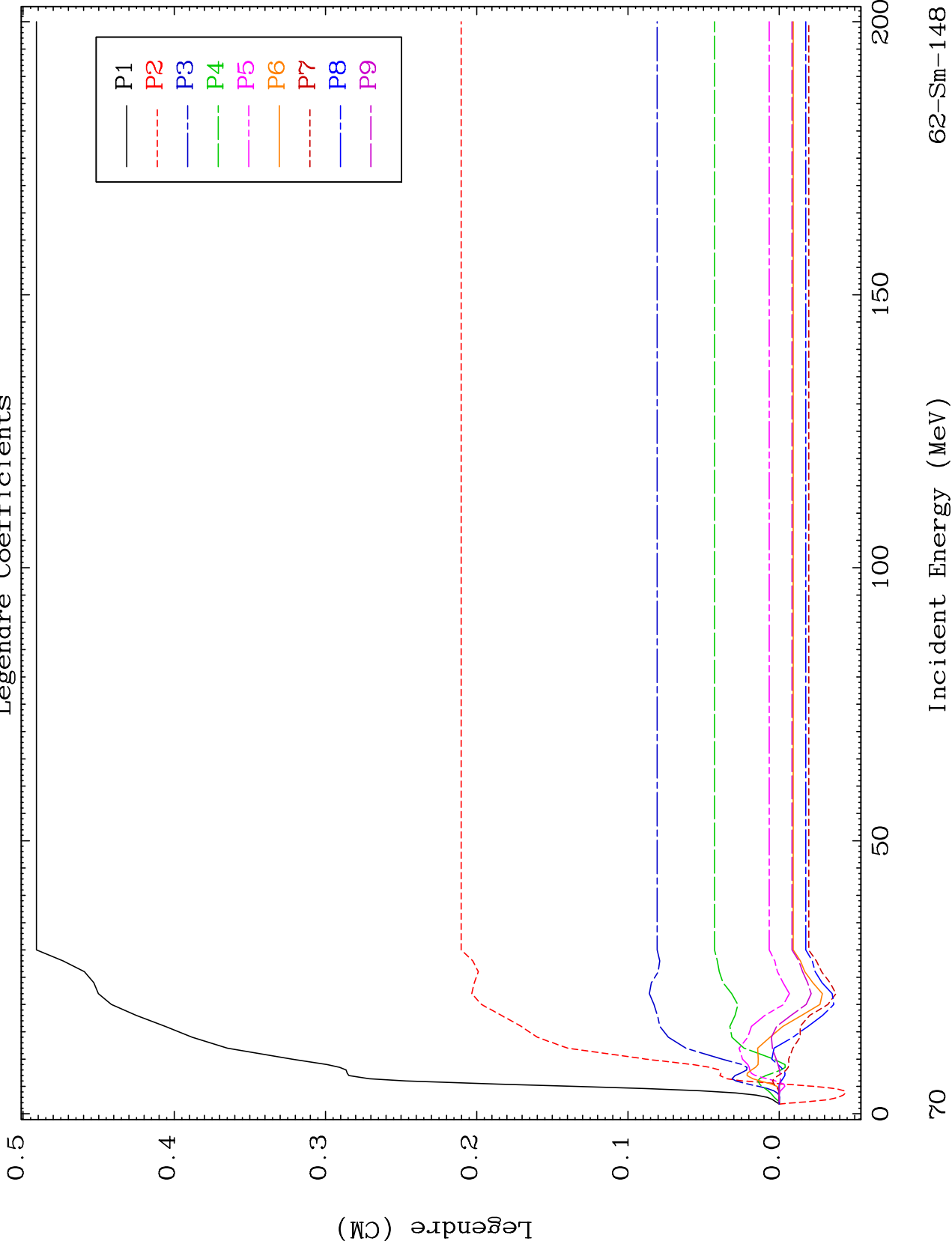
62-Sm-148



MAT 6237

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

62-Sm-148



62-Sm-148

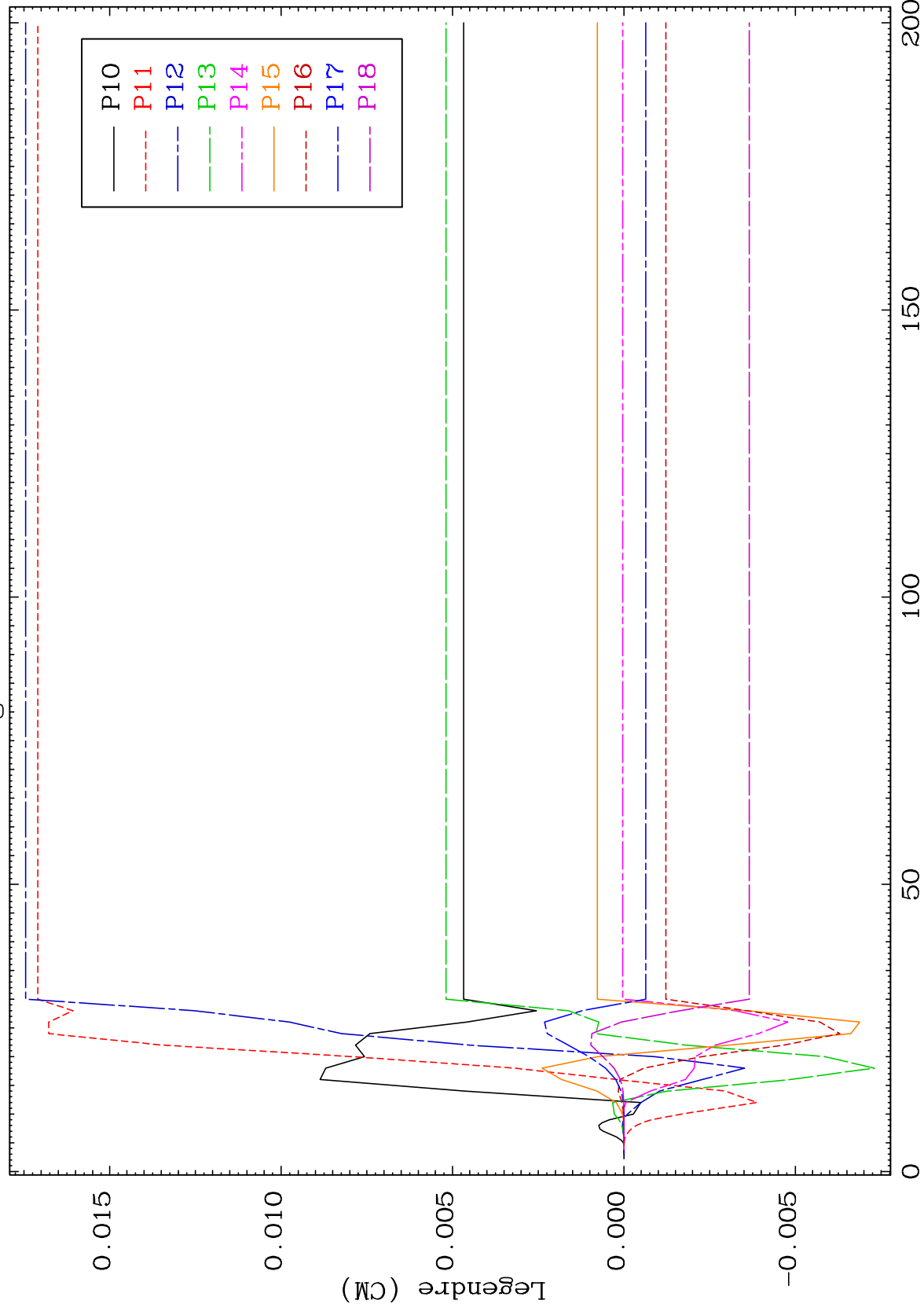
Incident Energy (MeV)

70

MAT 6237

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

62-Sm-148



71

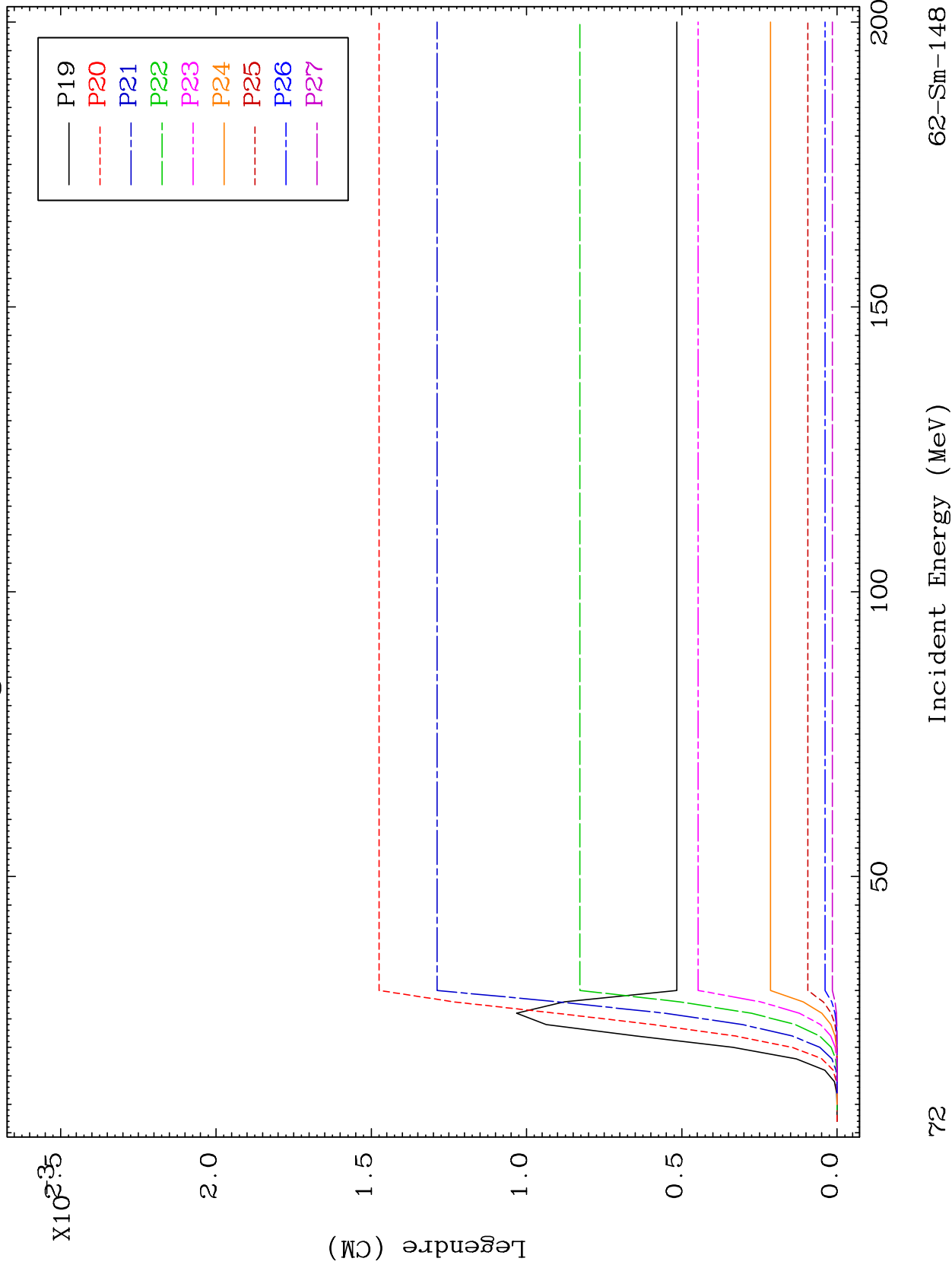
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

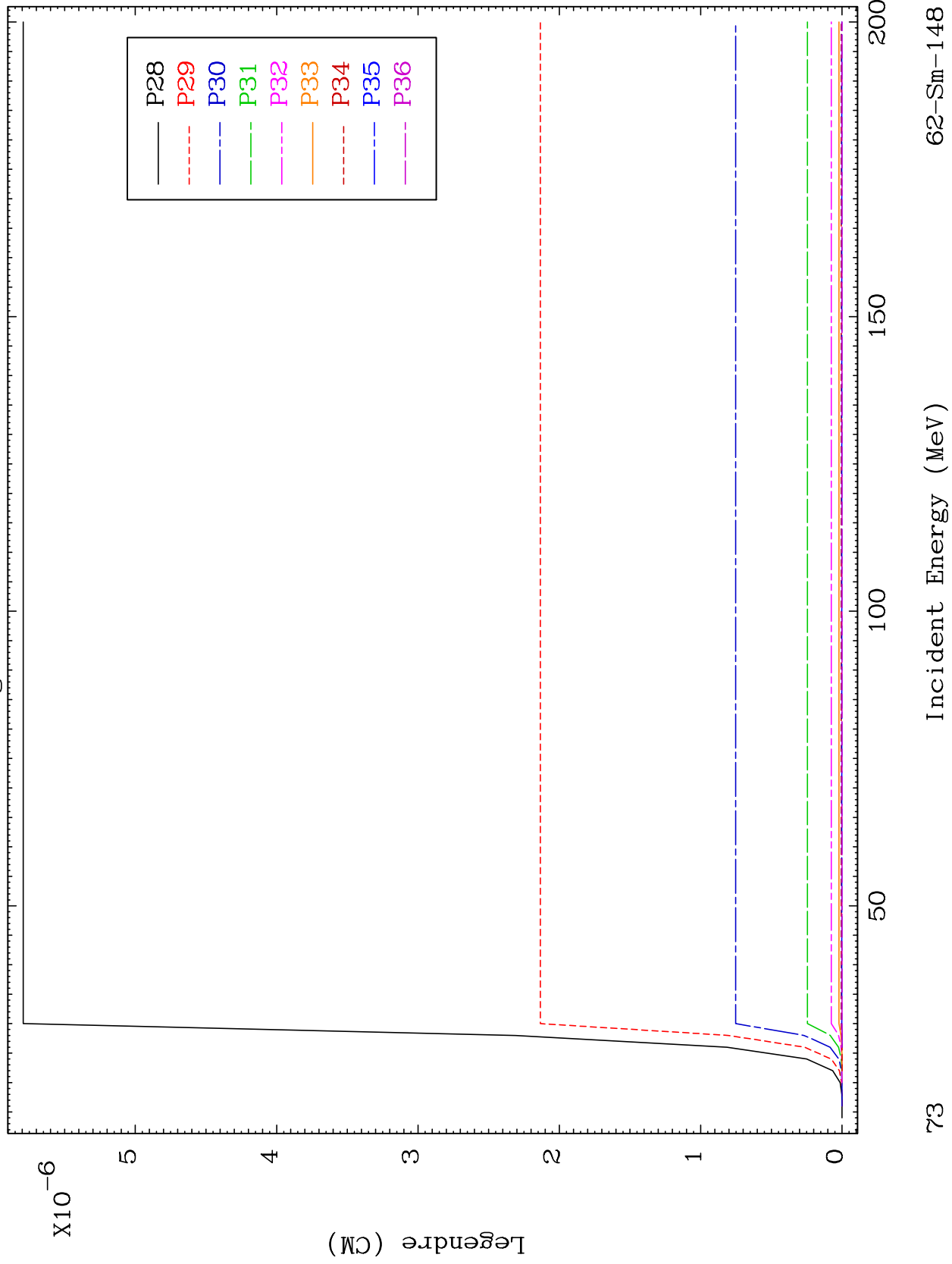
62-Sm-148



MAT 6237

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

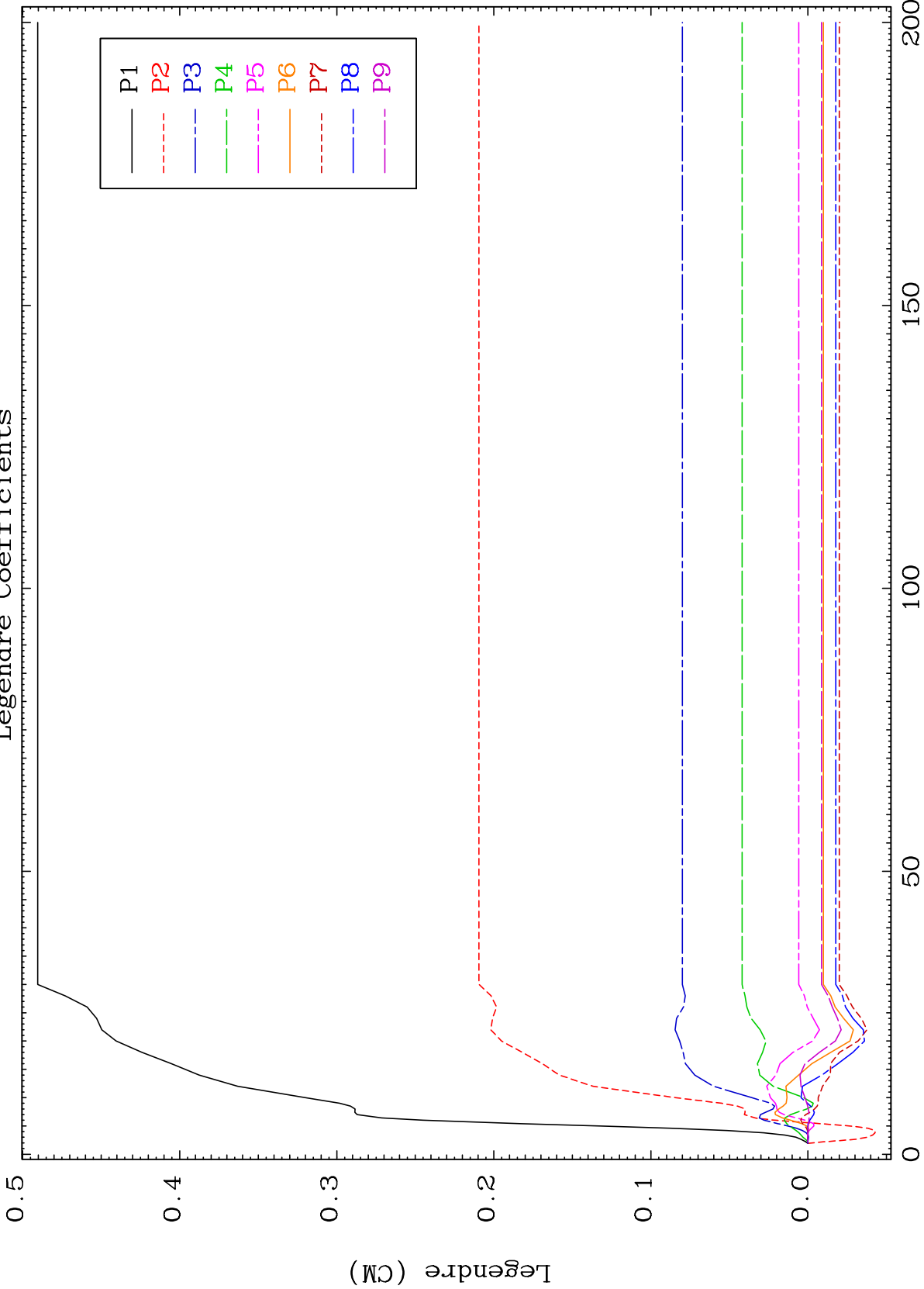
62-Sm-148



MAT 6237

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

62-Sm-148



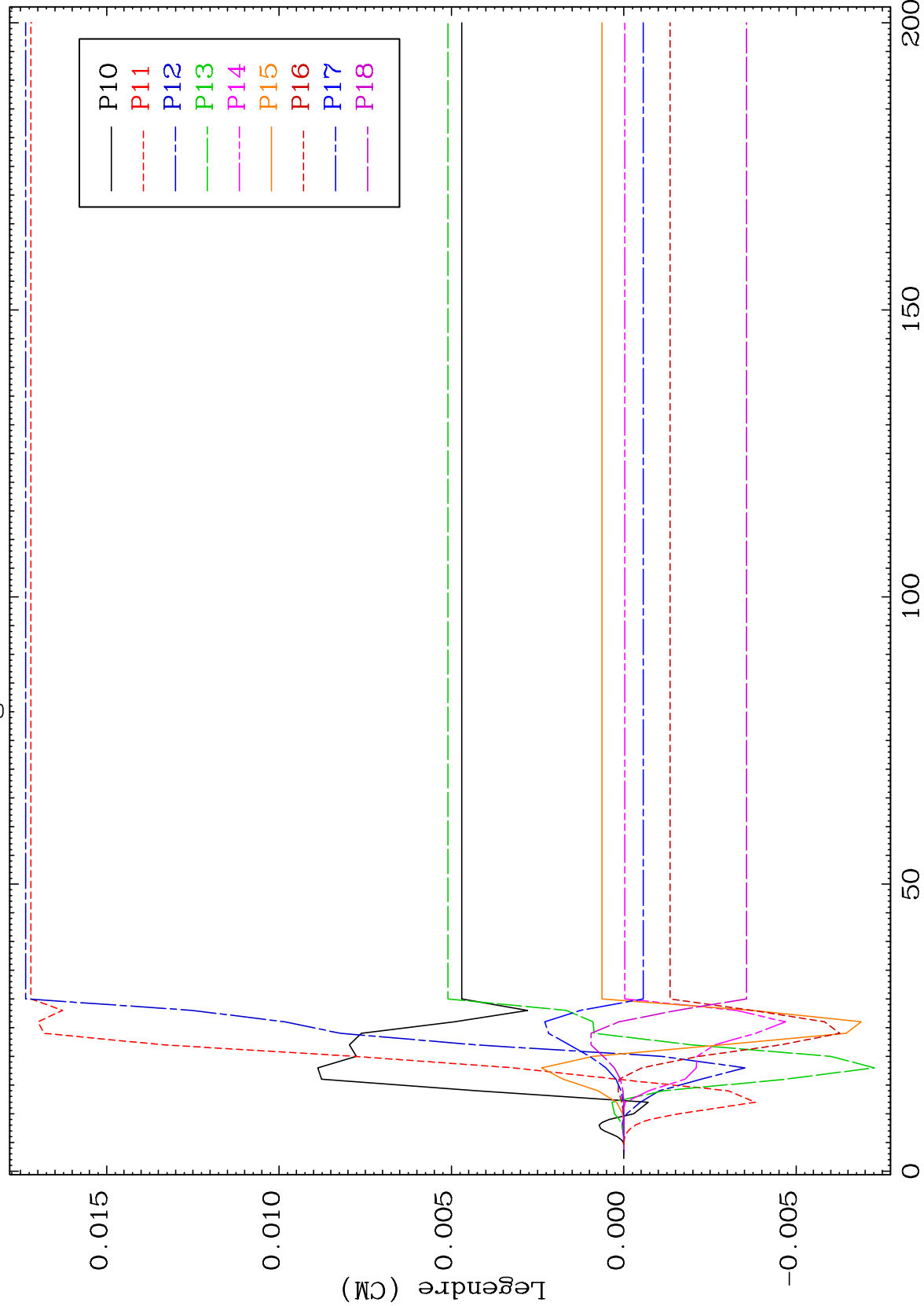
74

62-Sm-148

MAT 6237

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

62-Sm-148



75

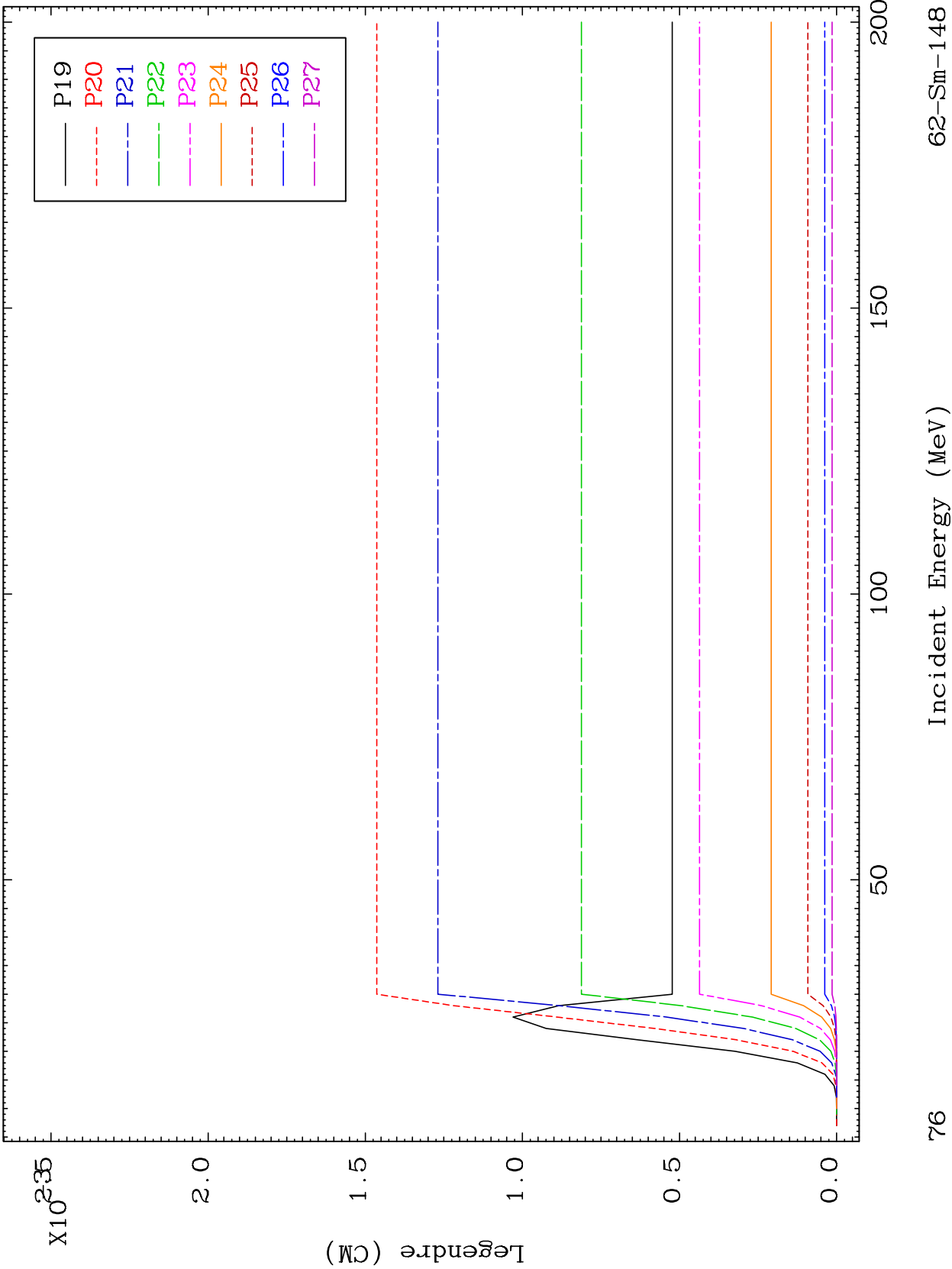
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

62-Sm-148



76

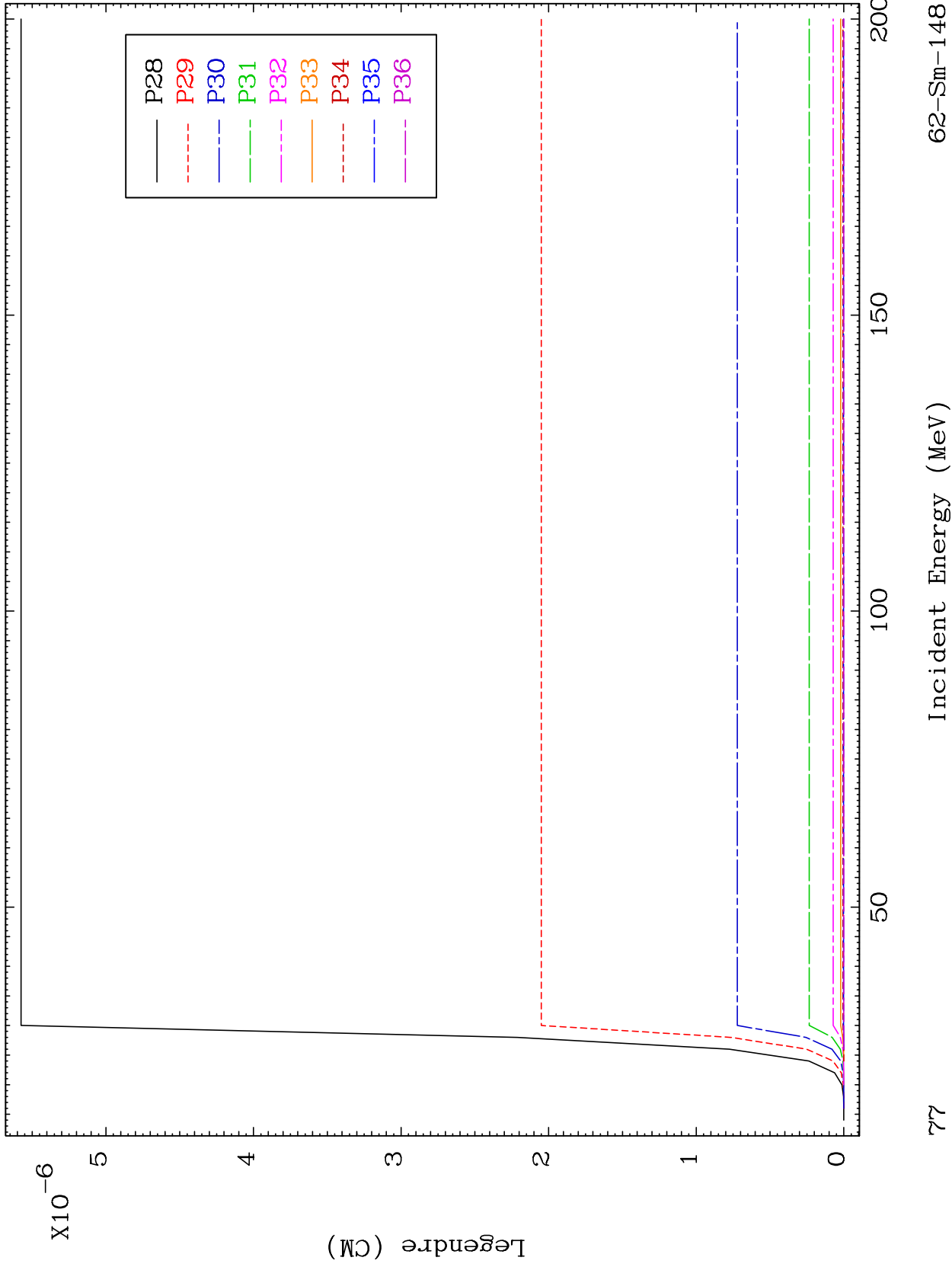
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

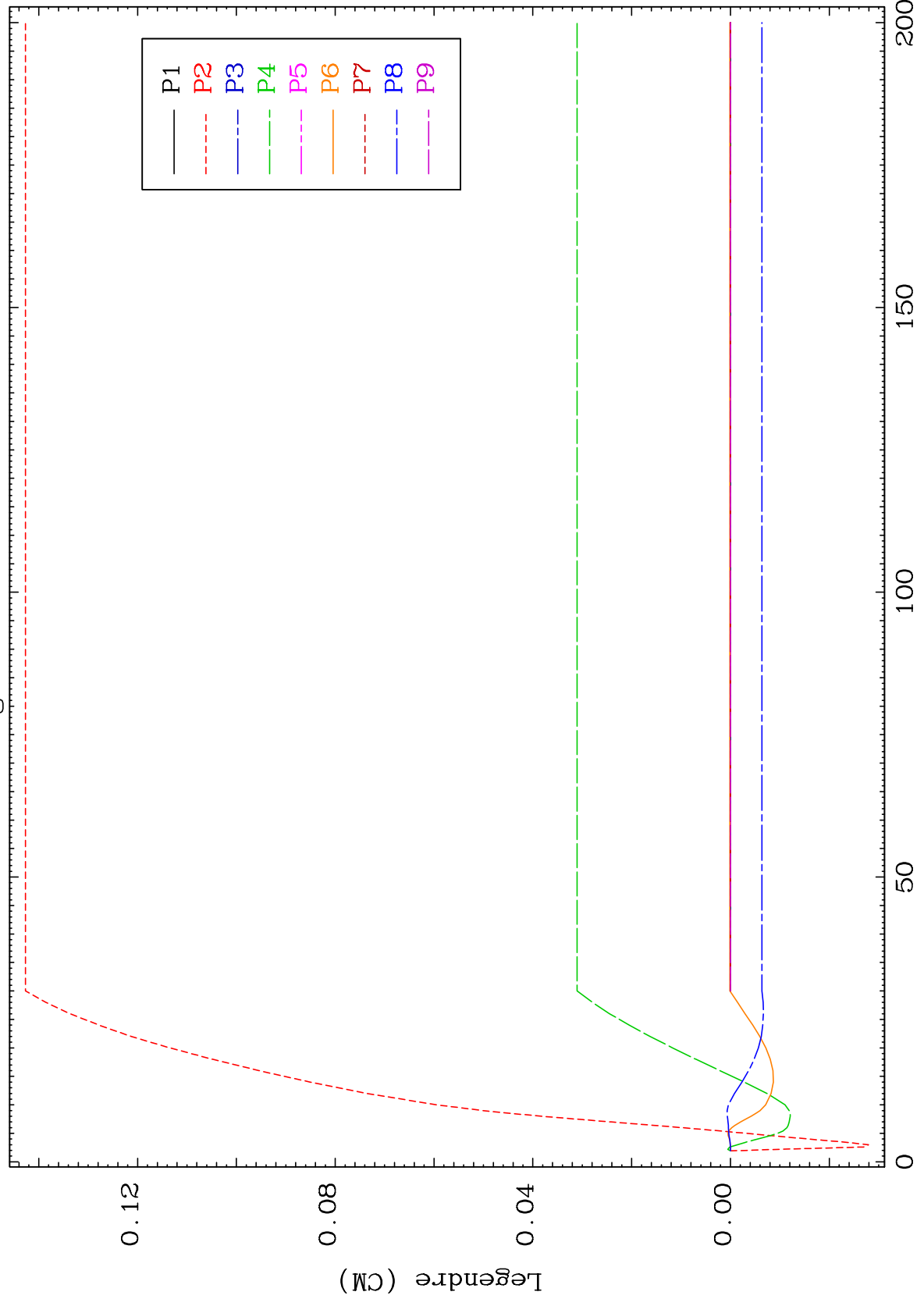
62-Sm-148



MAT 6237

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

62-Sm-148



78

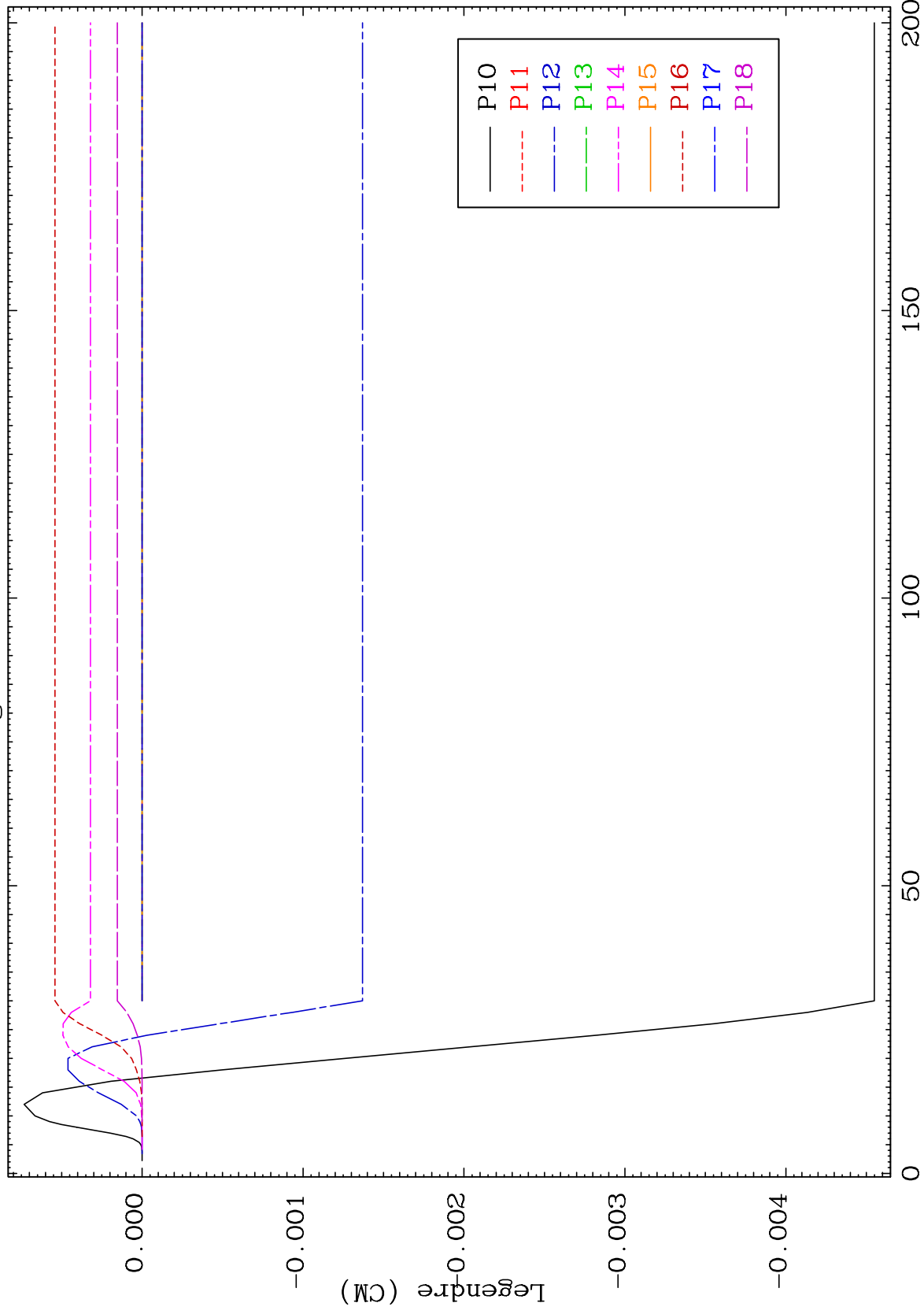
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

62-Sm-148



79

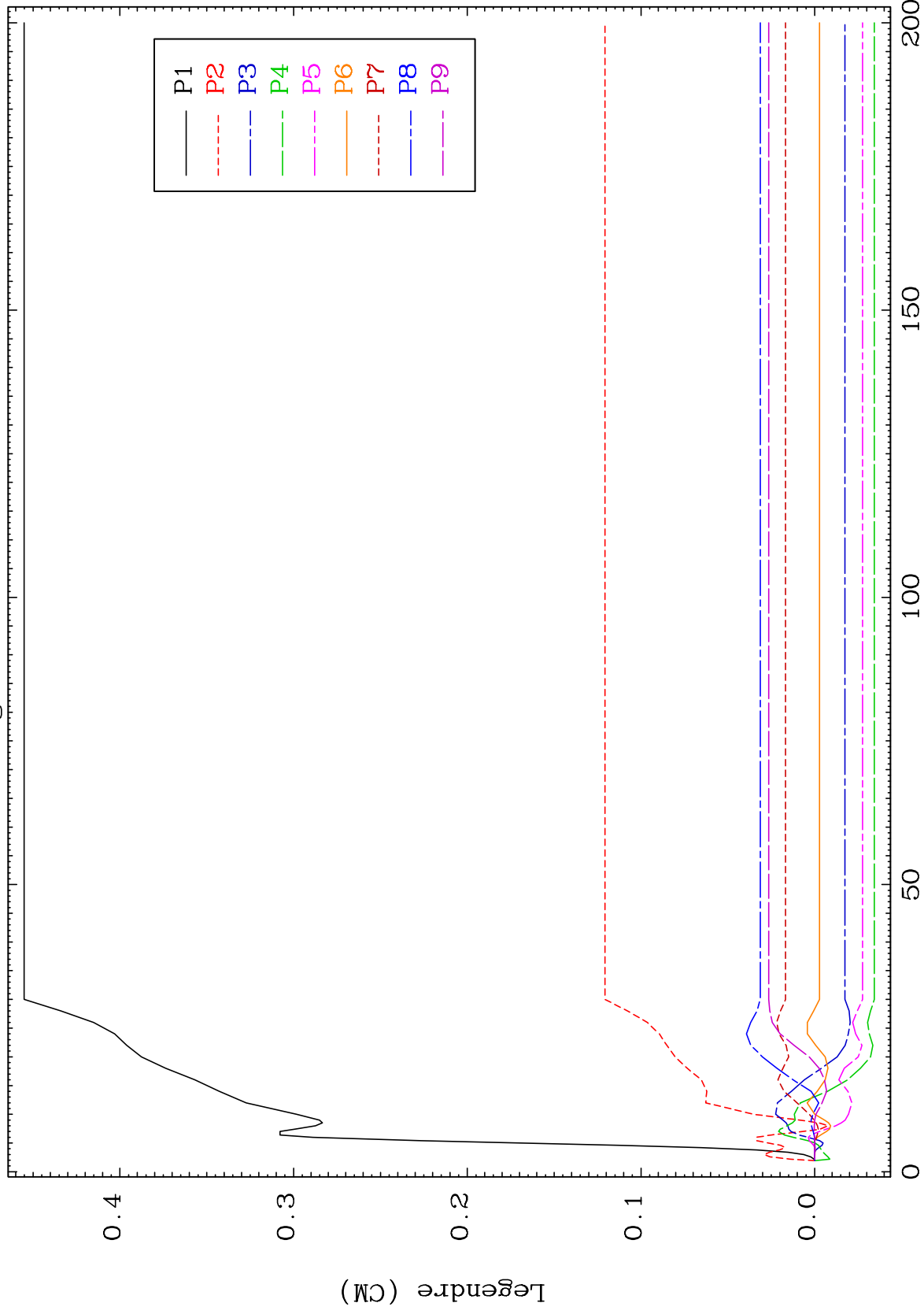
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

62-Sm-148



81

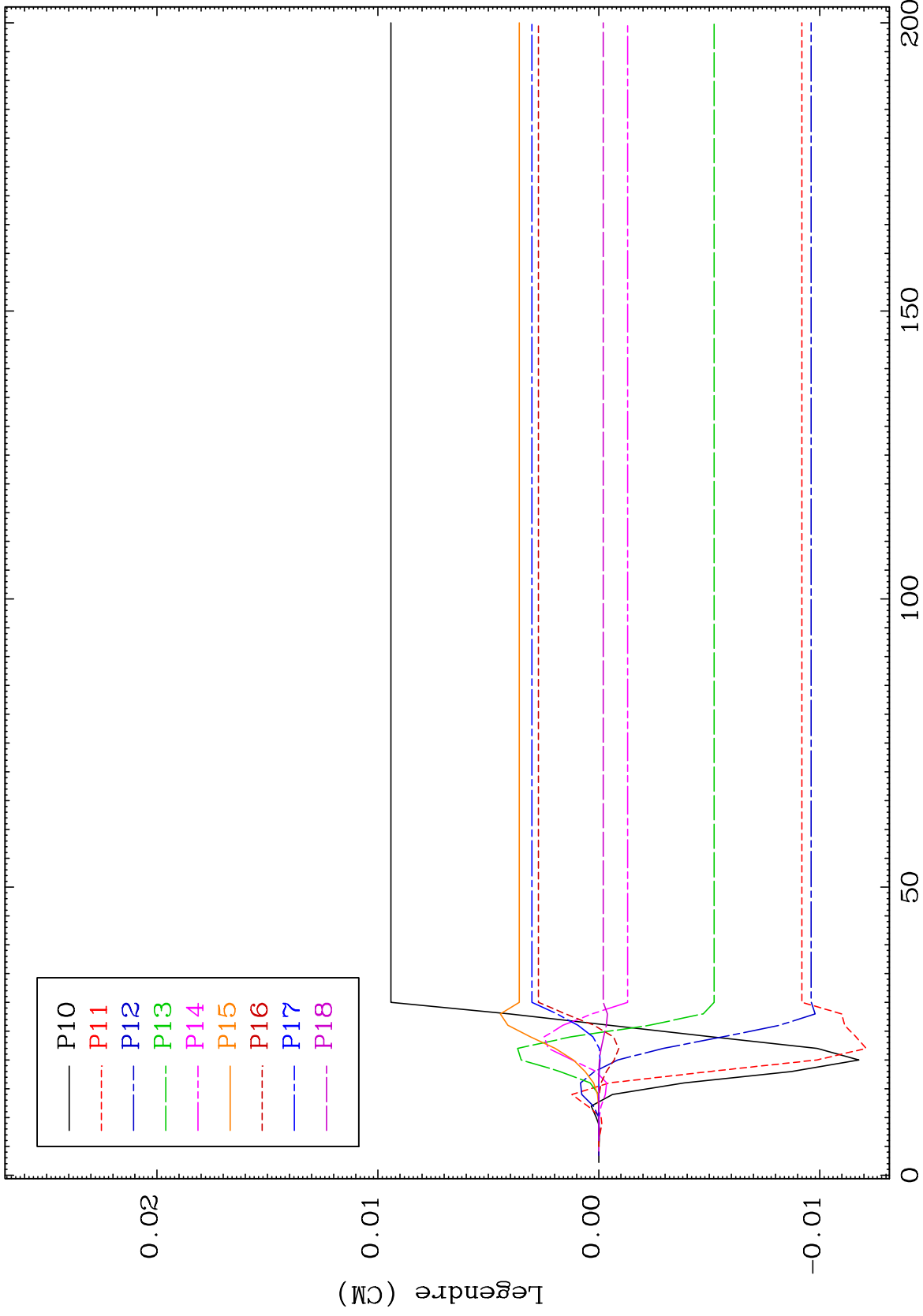
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

62-Sm-148



82

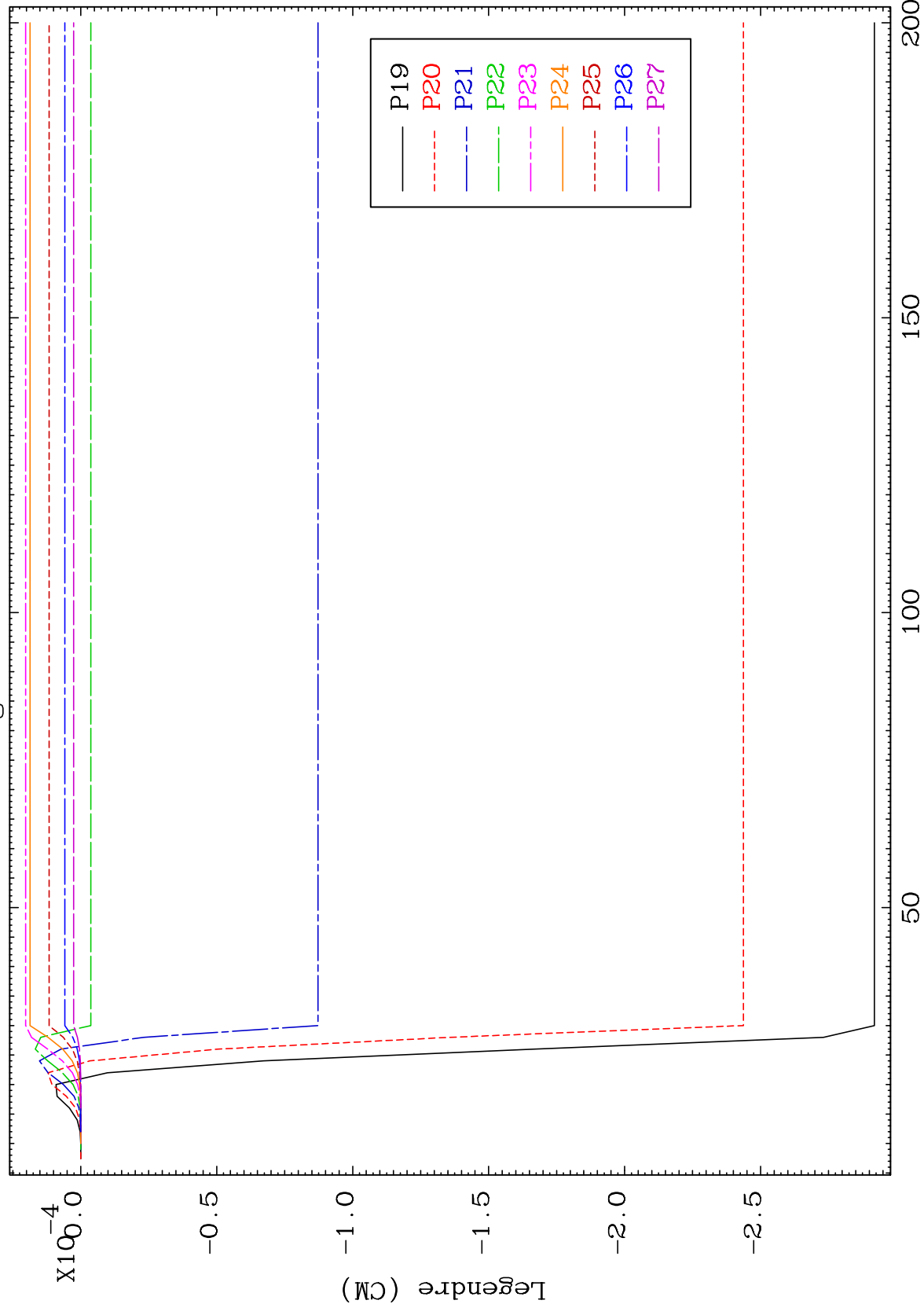
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

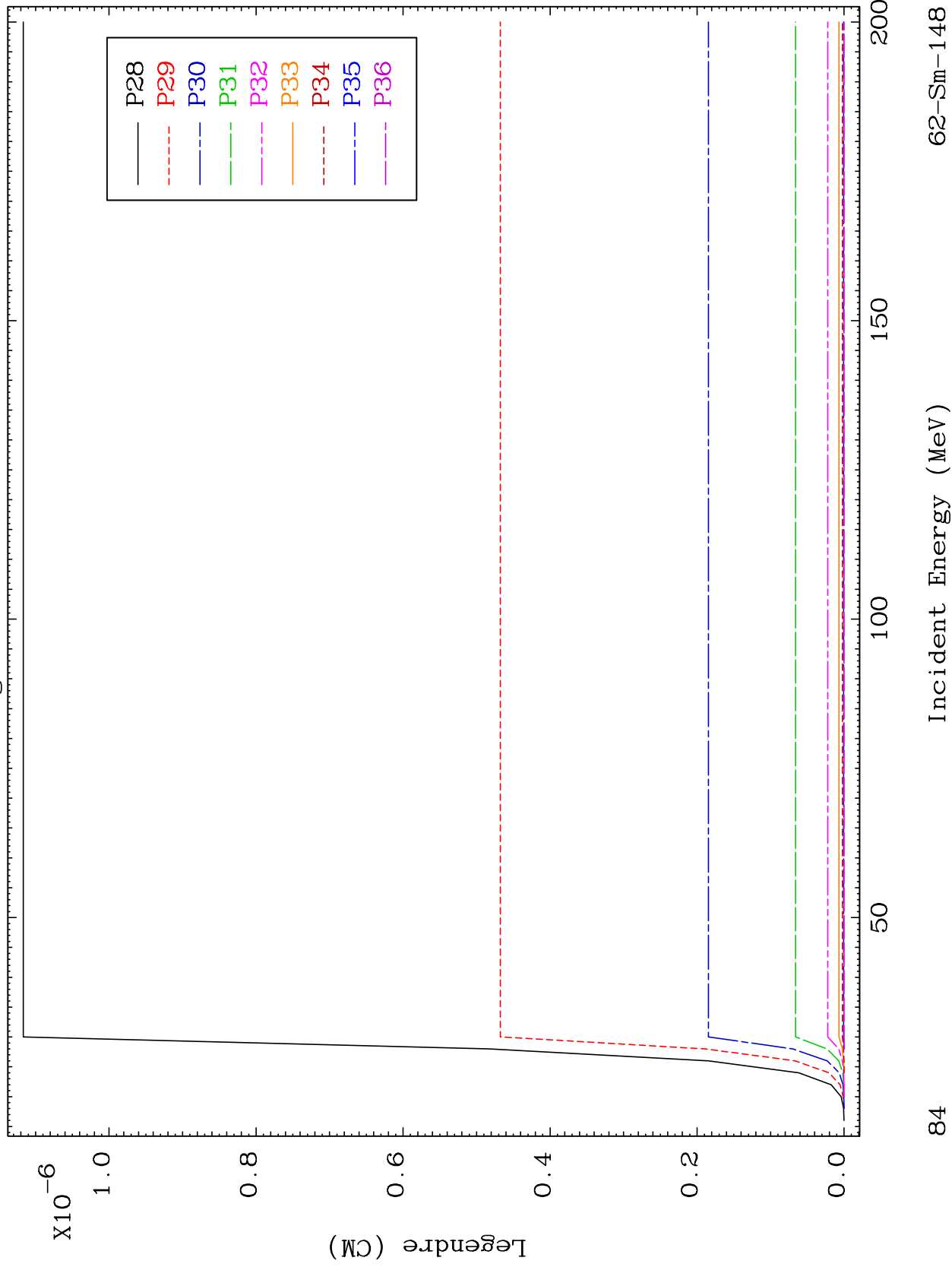
62-Sm-148



MAT 6237

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

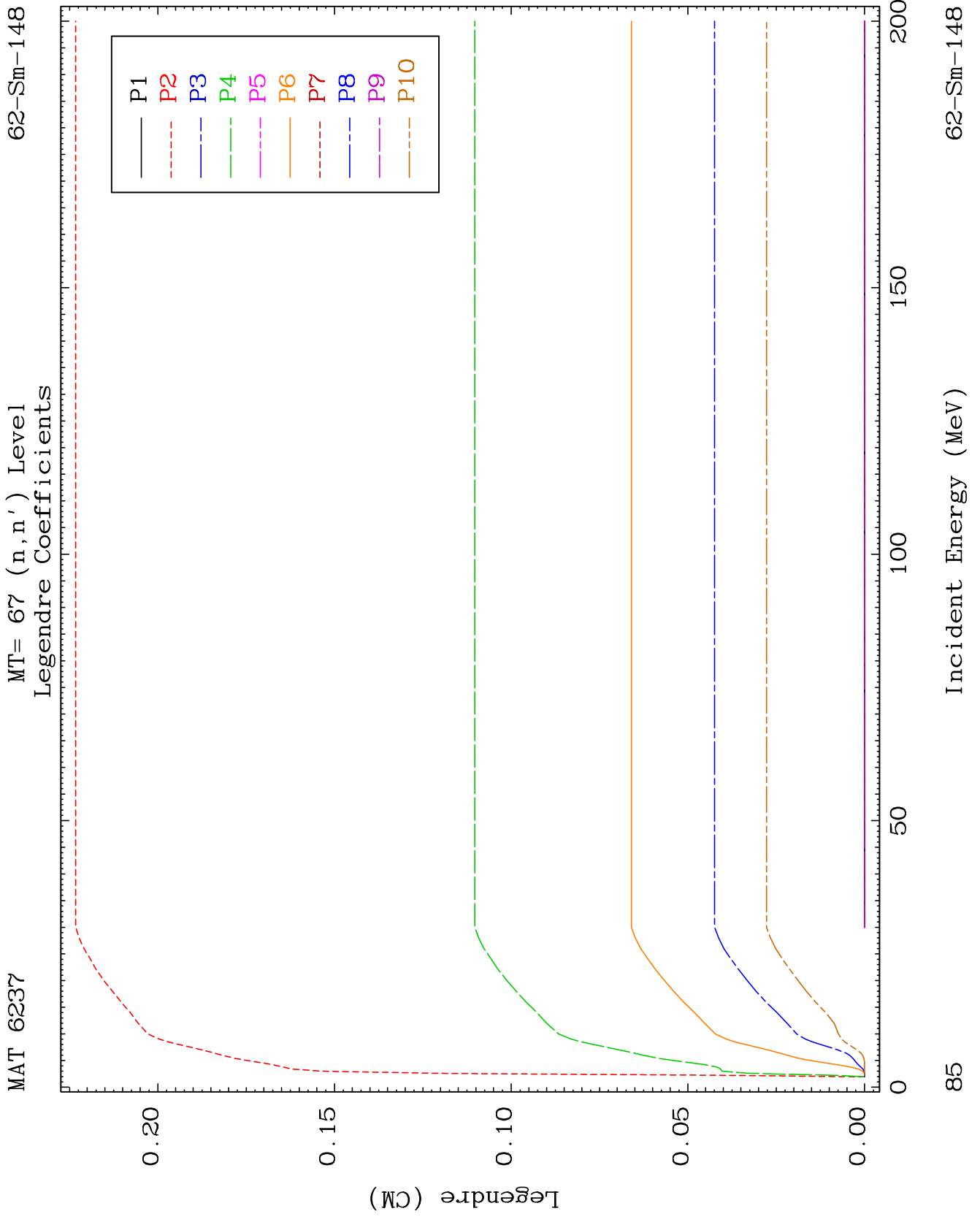
62-Sm-148

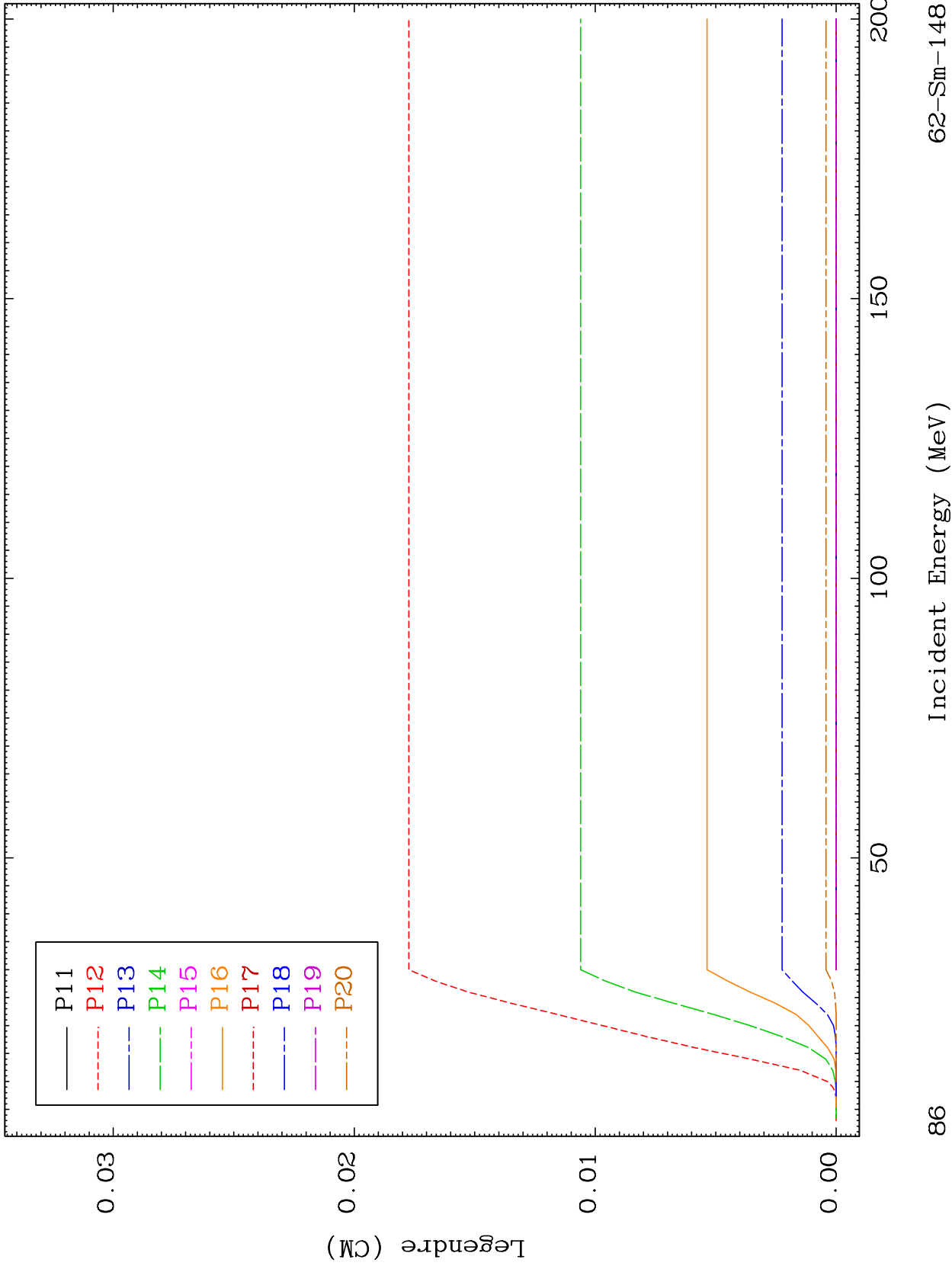


84

Incident Energy (MeV)

62-Sm-148

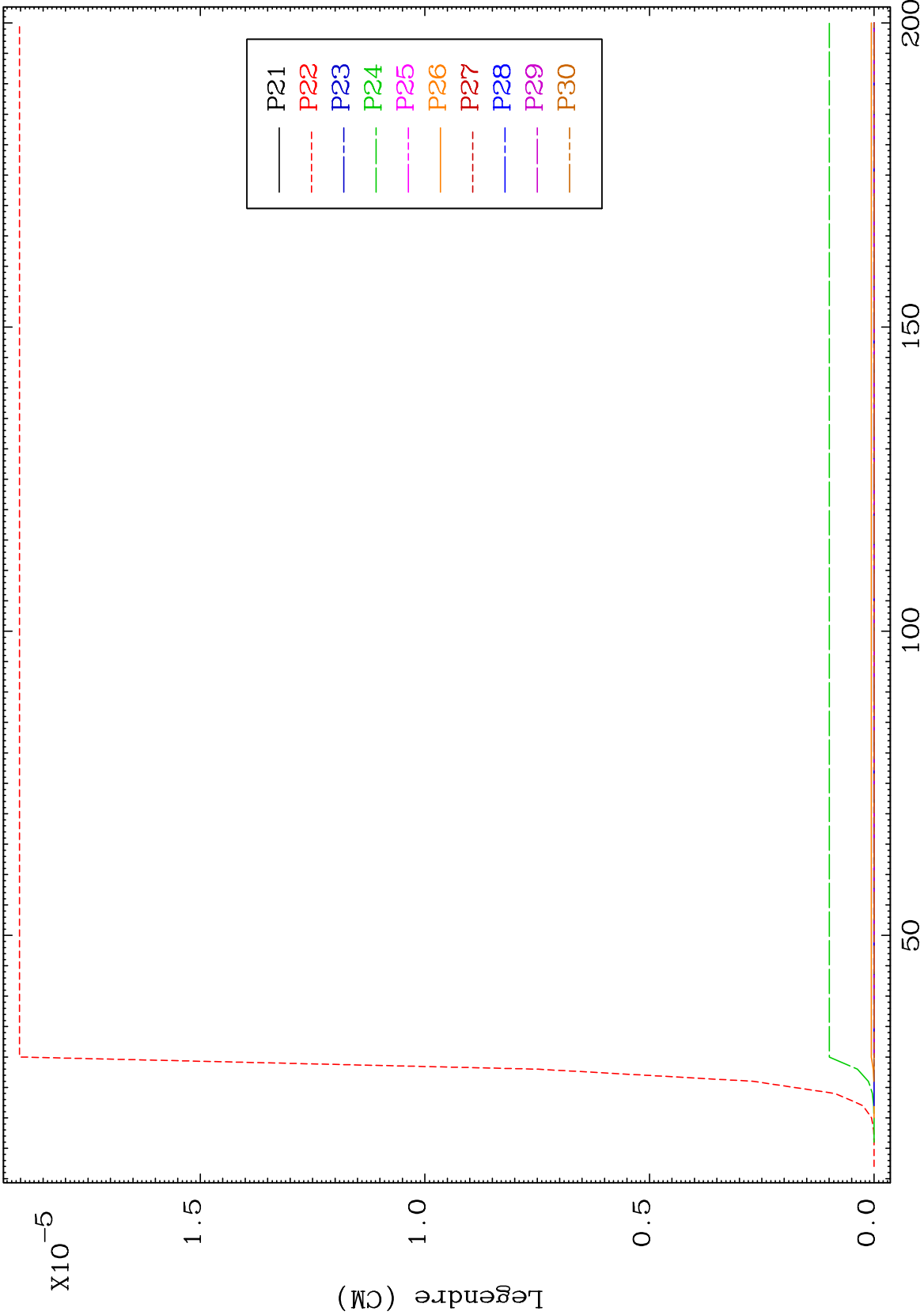




MAT 6237

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

62-Sm-148



87

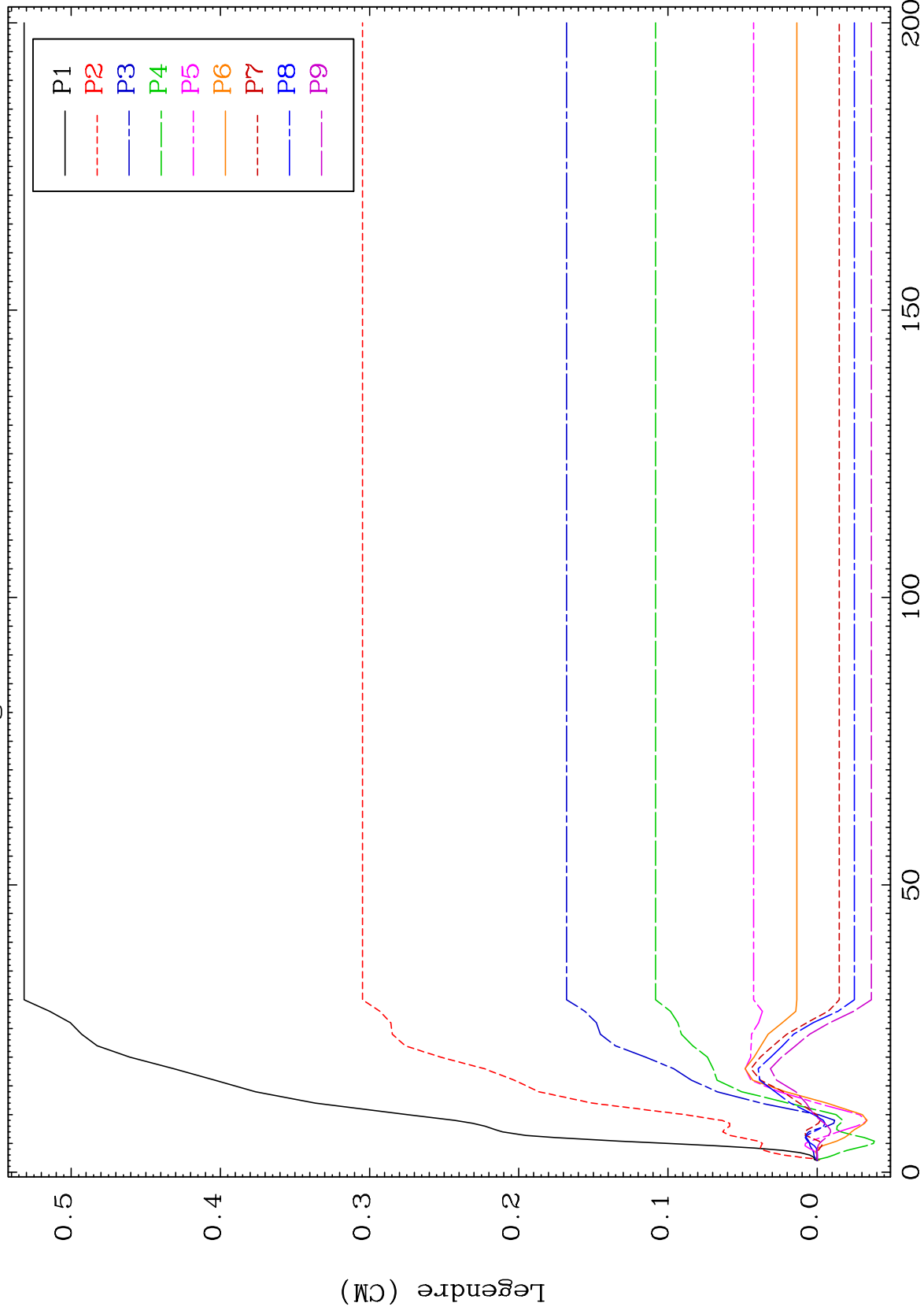
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

62-Sm-148



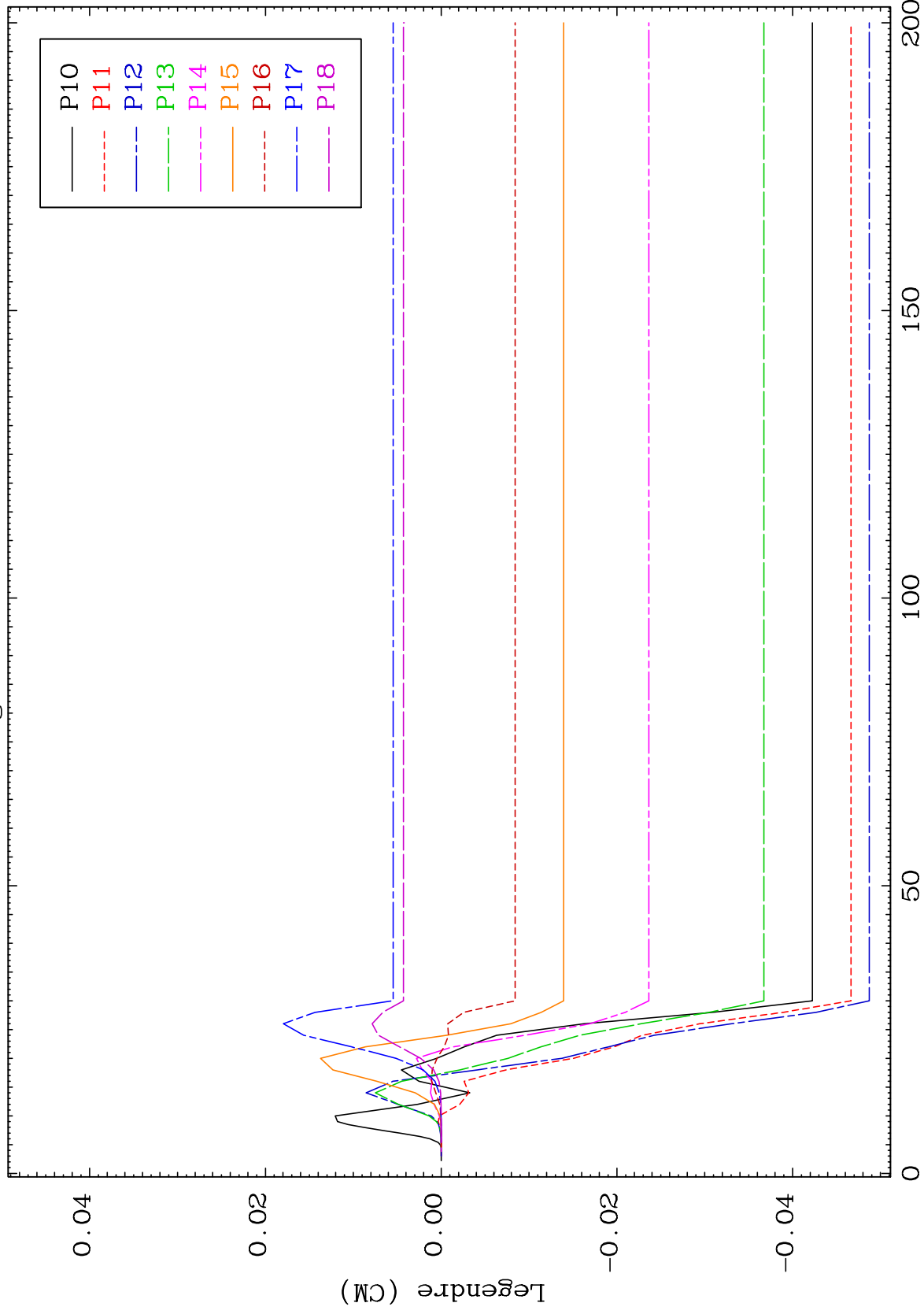
88

62-Sm-148

MAT 6237

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

62-Sm-148



89

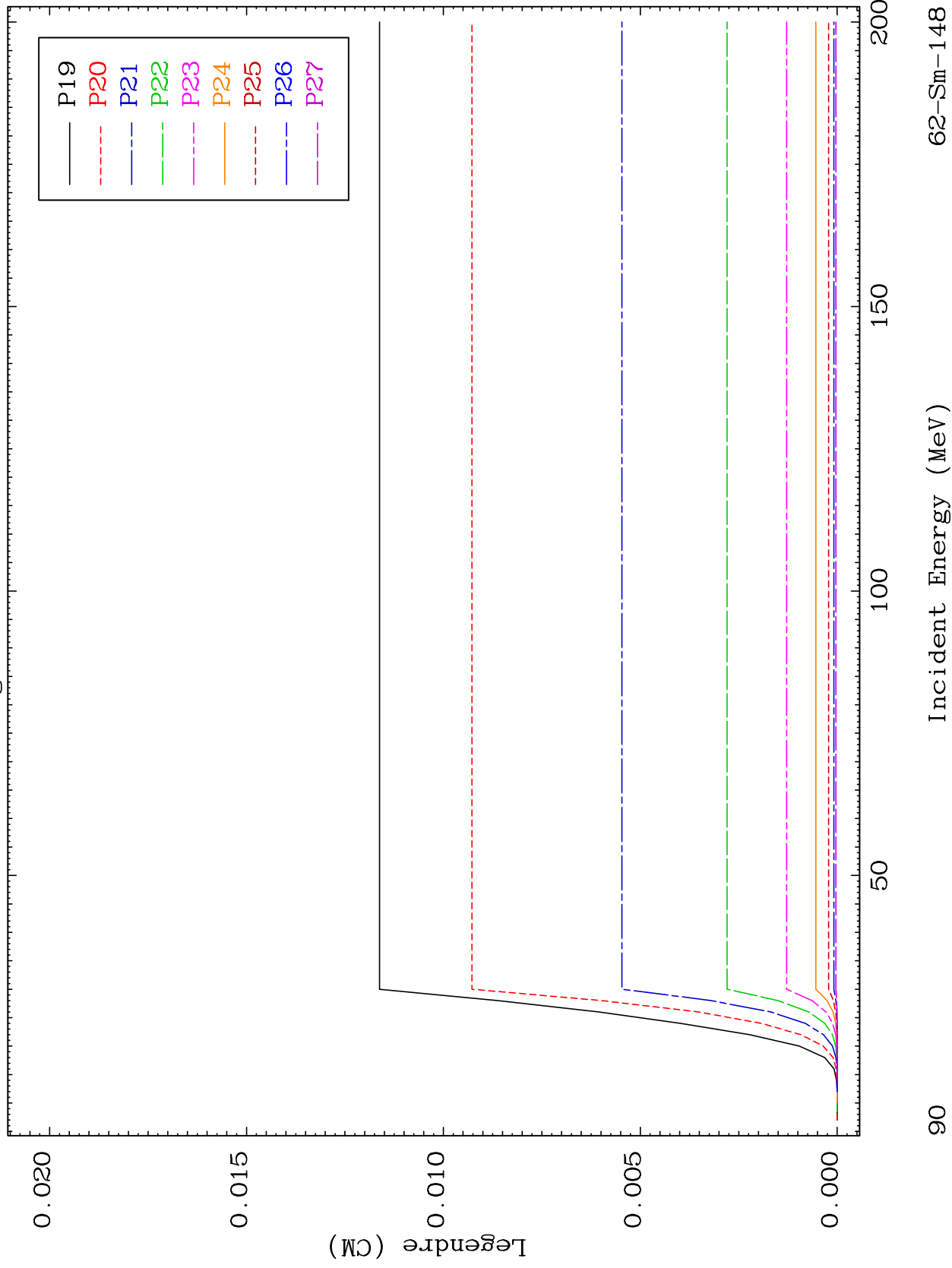
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

62-Sm-148



90

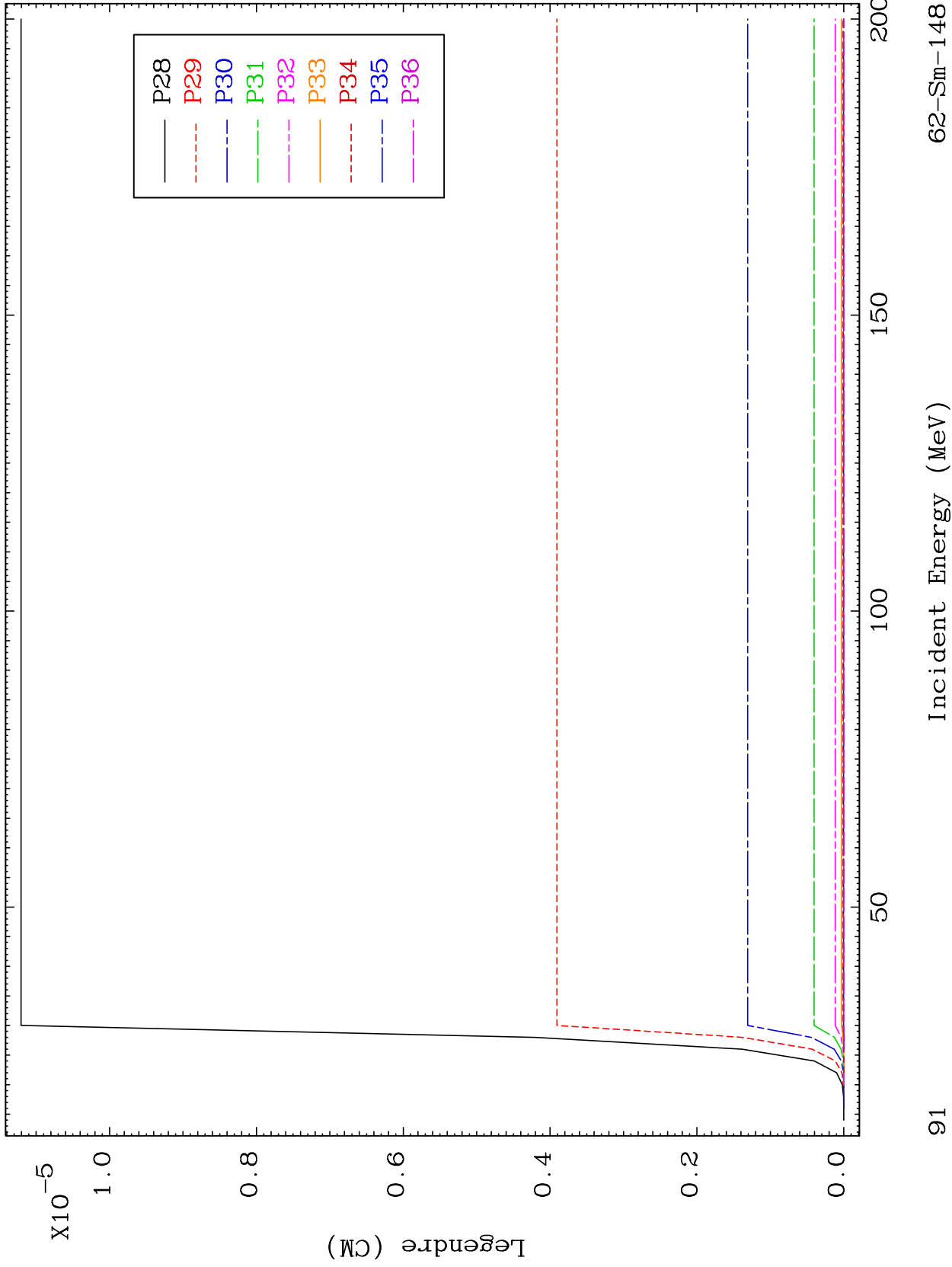
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

62-Sm-148



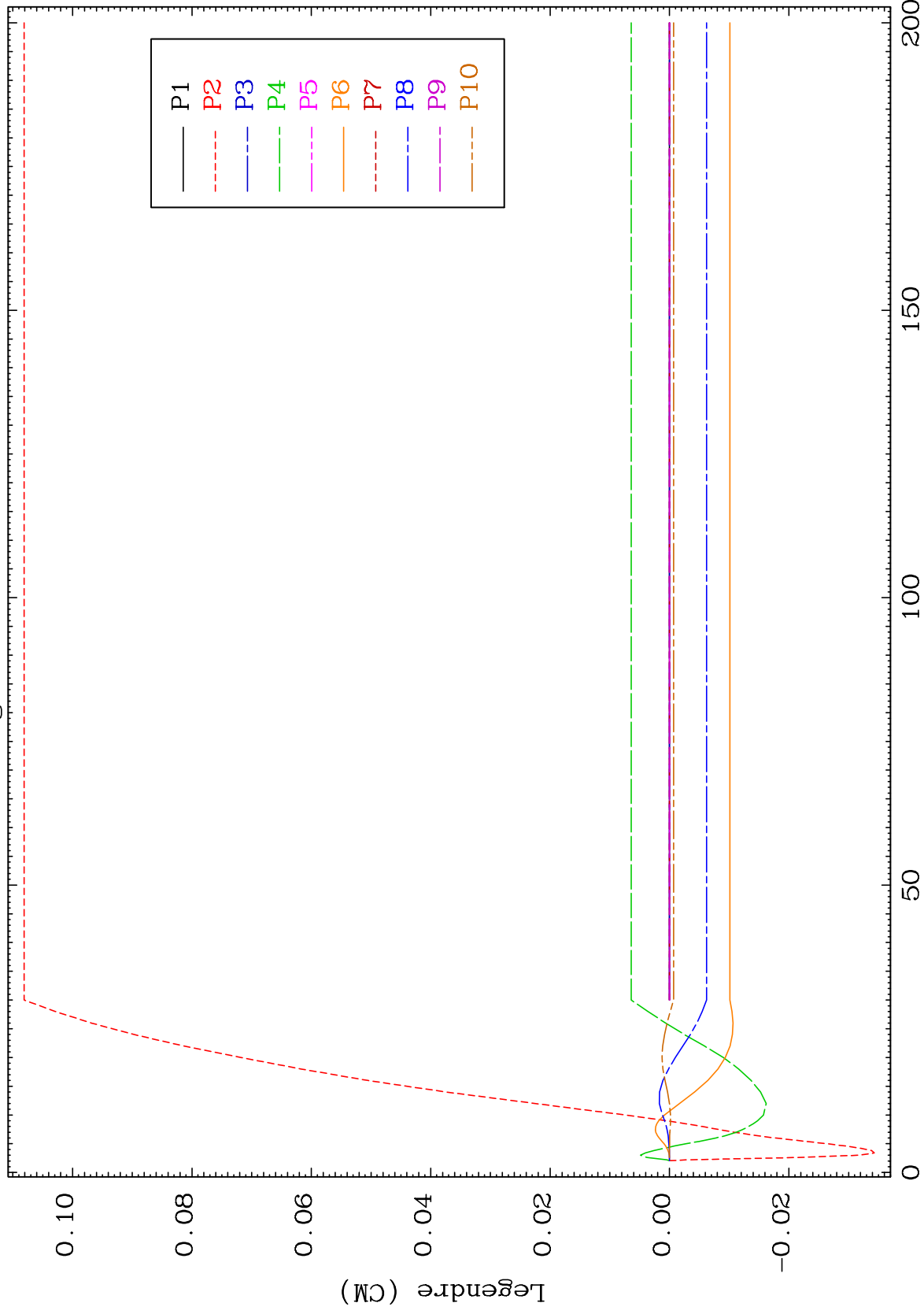
91

62-Sm-148

MAT 6237

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

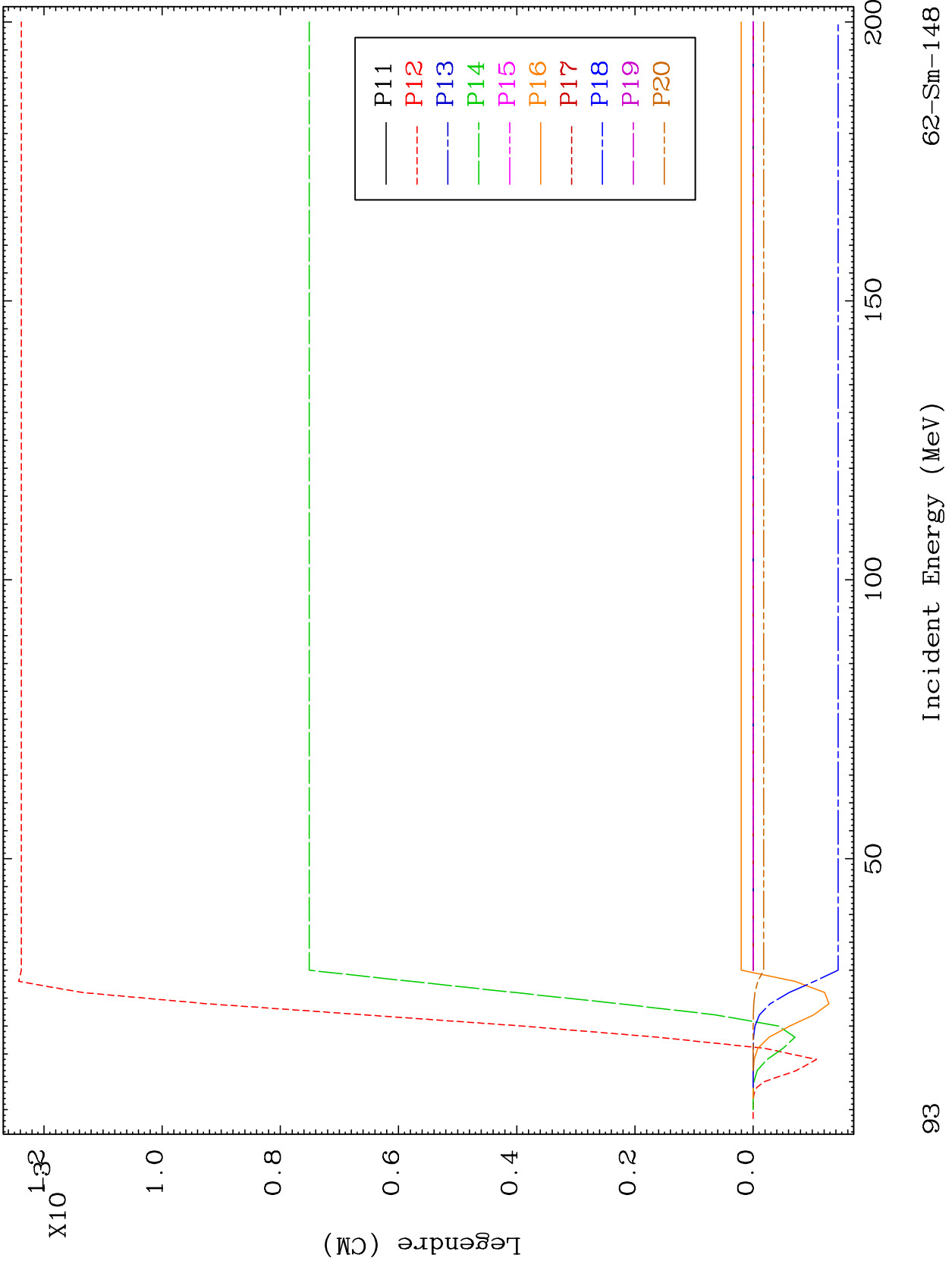
62-Sm-148



92

Incident Energy (MeV)

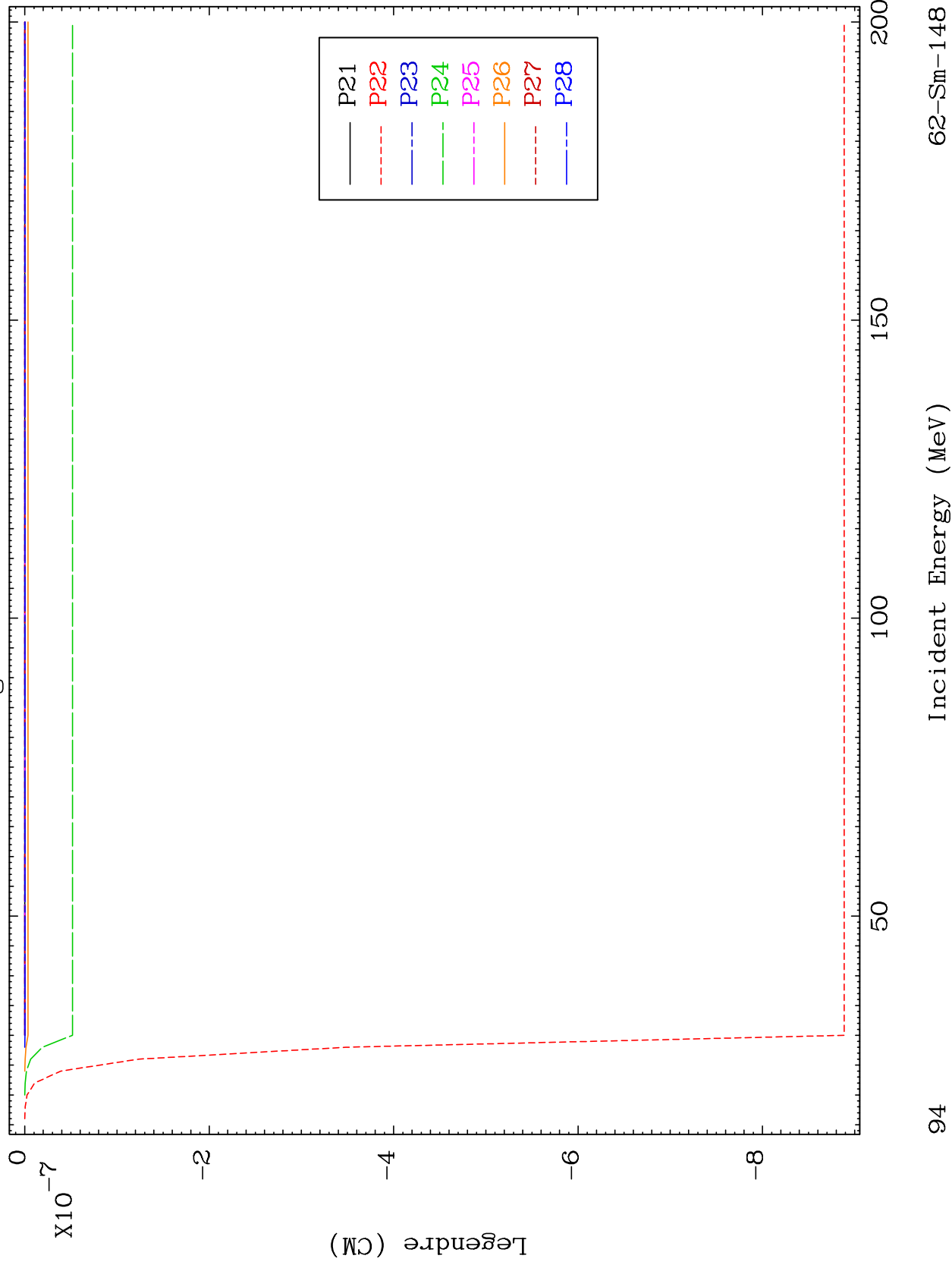
62-Sm-148



MAT 6237

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

62-Sm-148



94

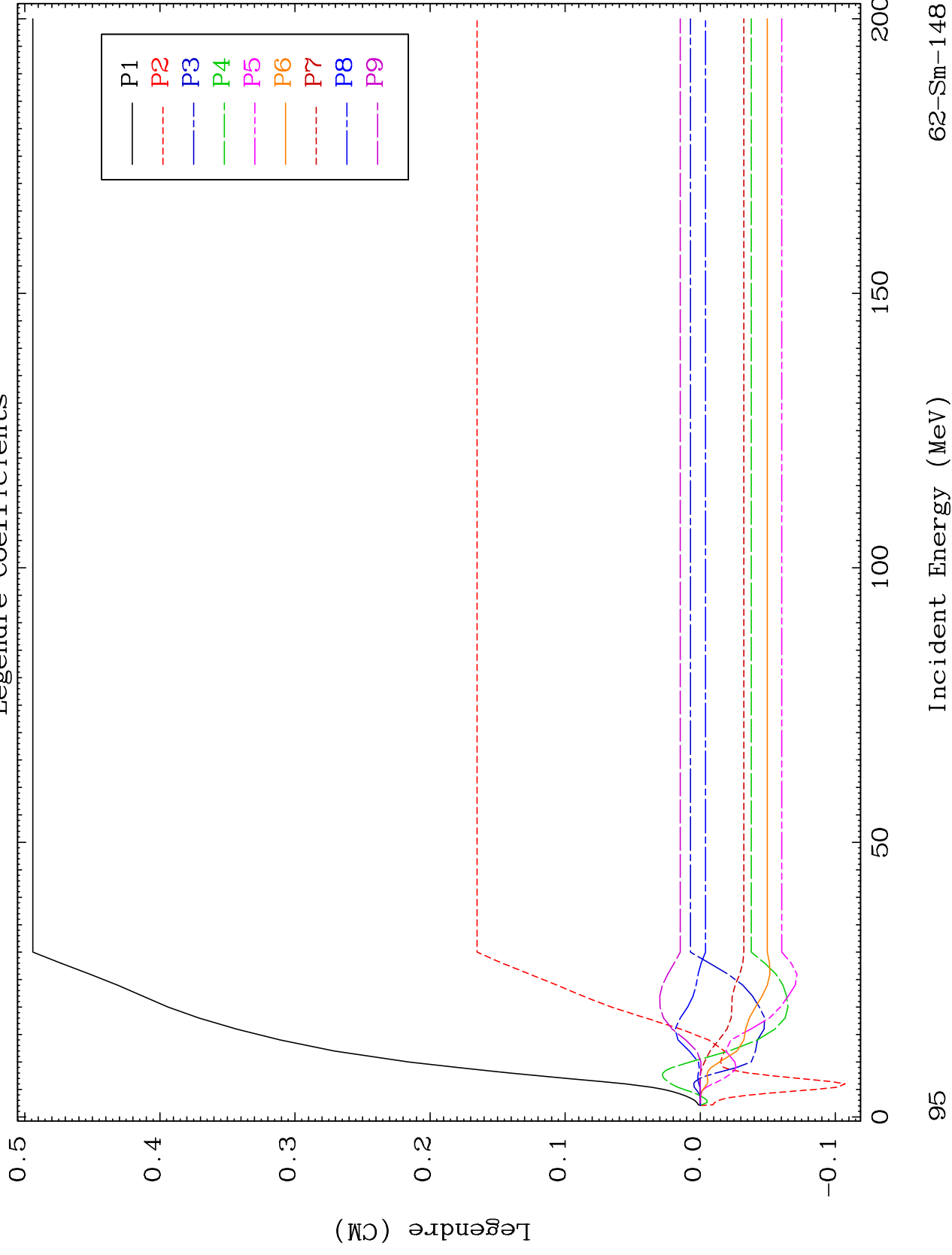
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

62-Sm-148



62-Sm-148

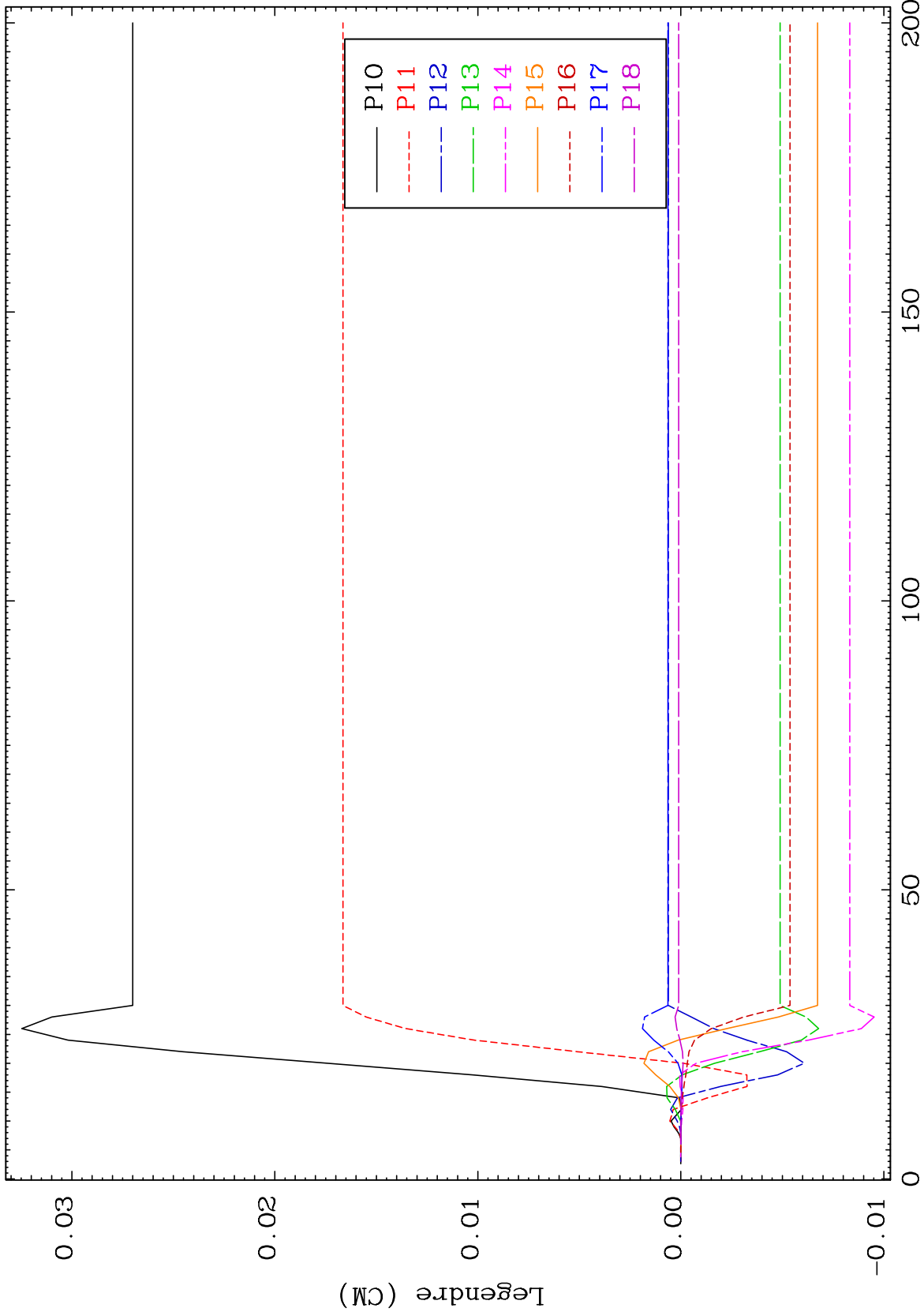
Incident Energy (MeV)

95

MAT 6237

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

62-Sm-148



96

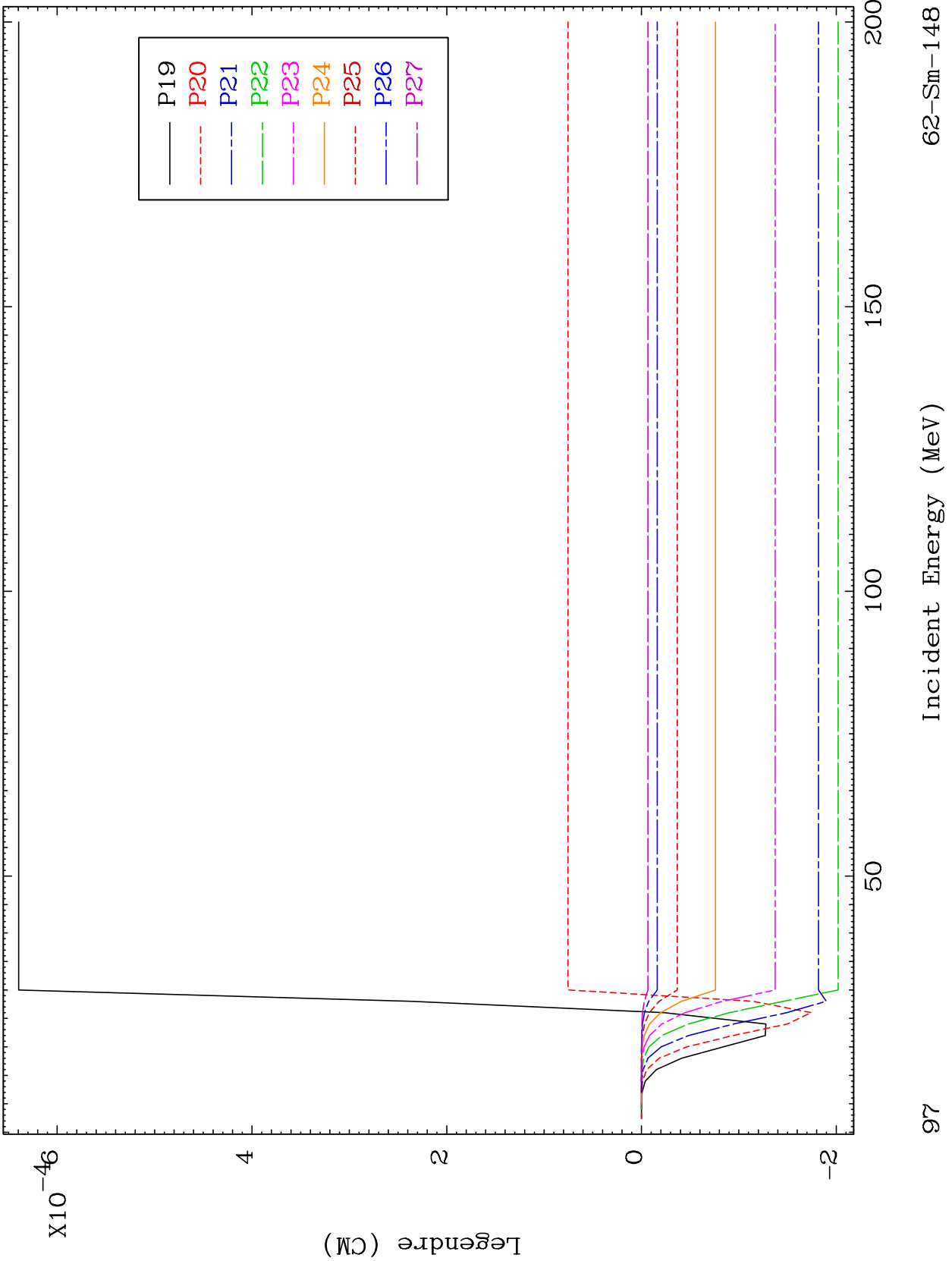
Incident Energy (MeV)

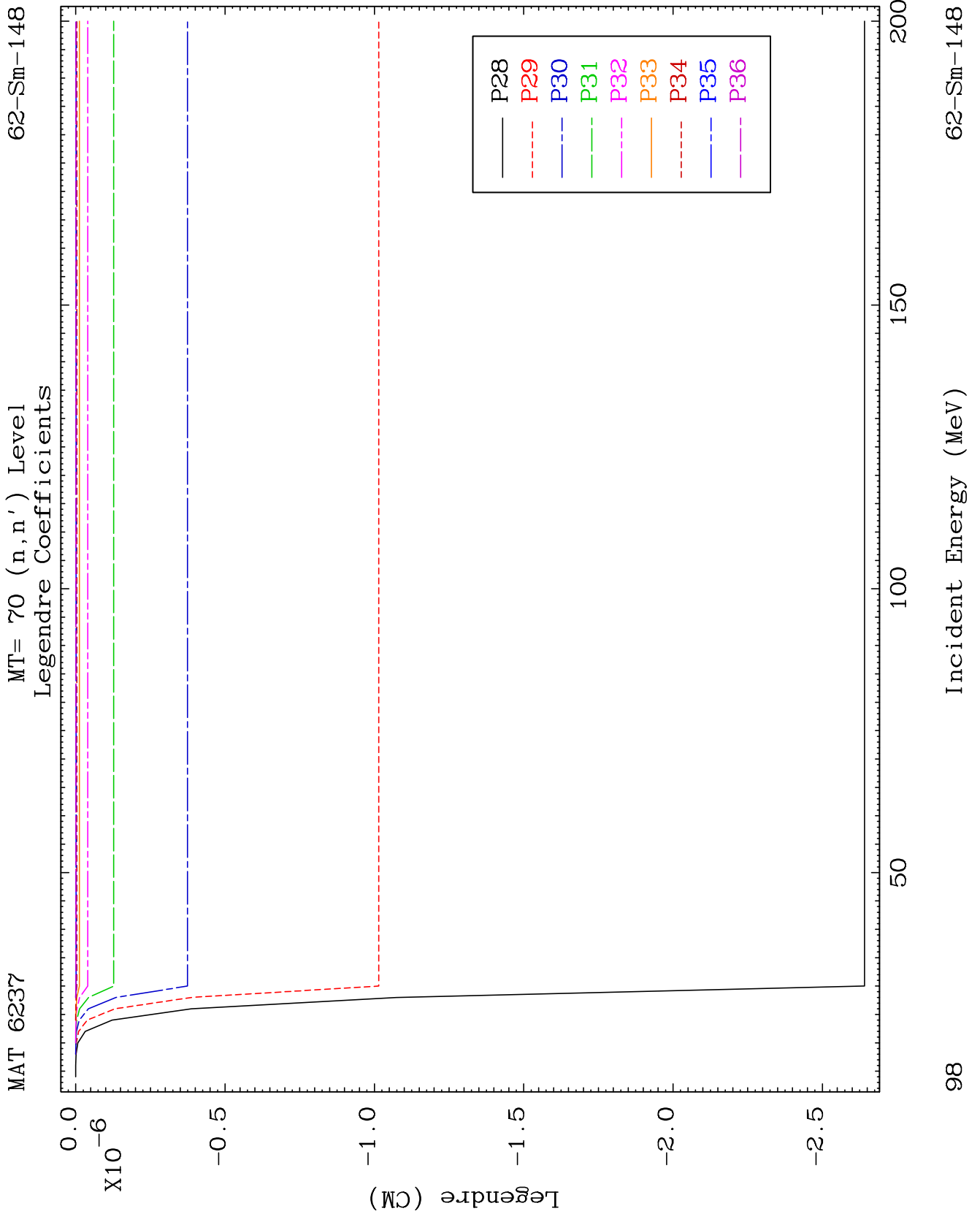
62-Sm-148

MAT 6237

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

62-Sm-148

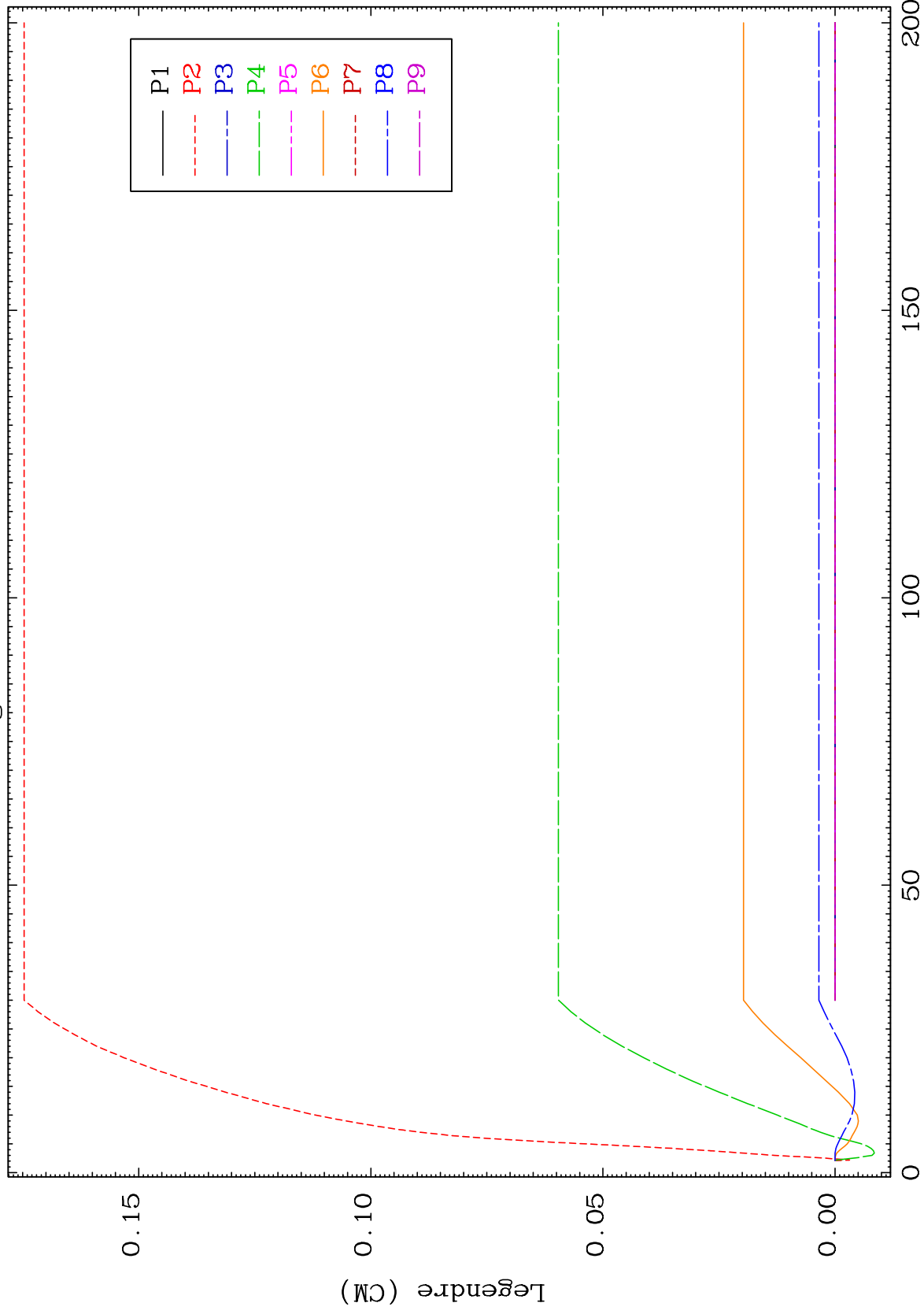




MAT 6237

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

62-Sm-148



99

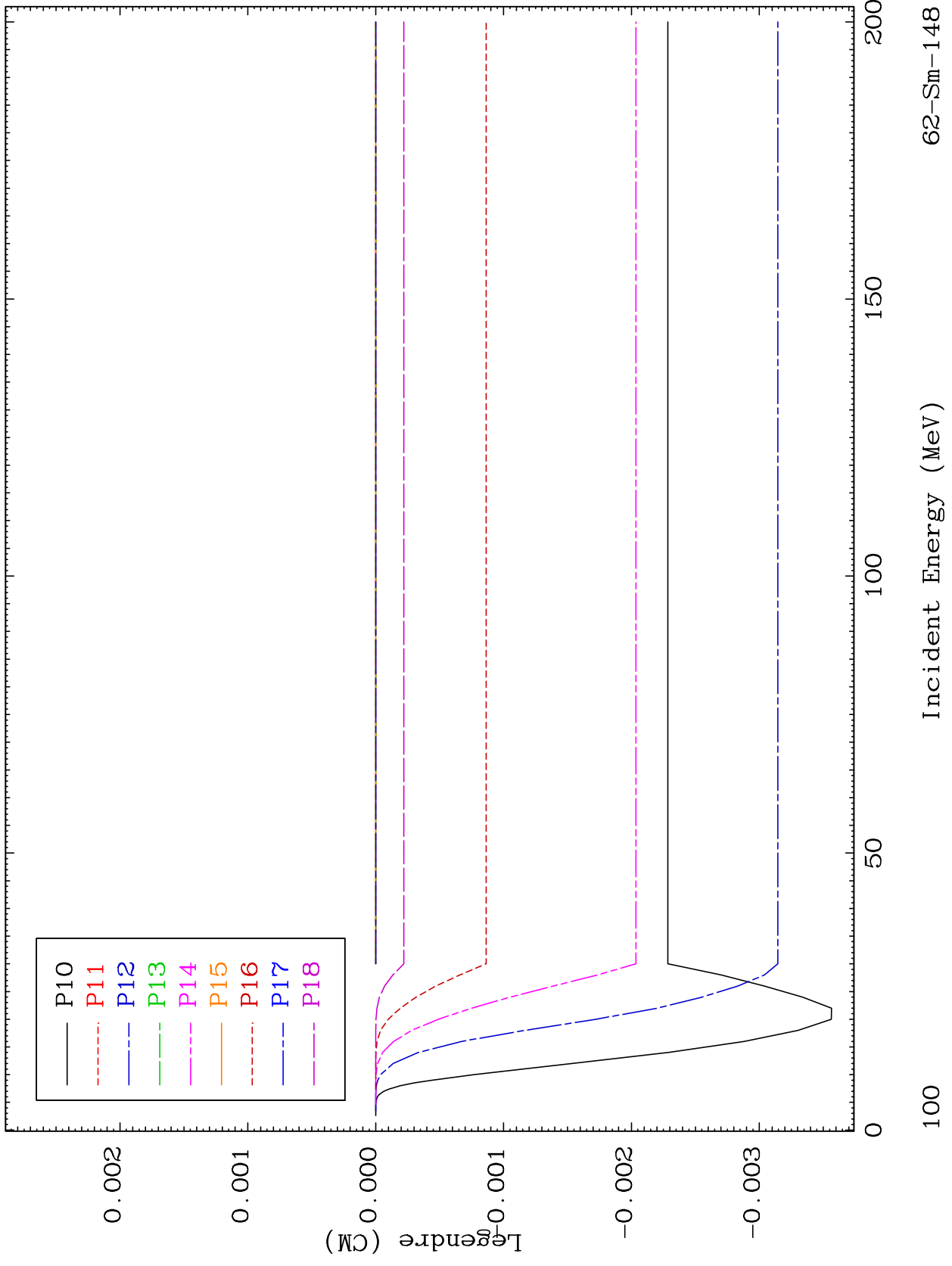
Incident Energy (MeV)

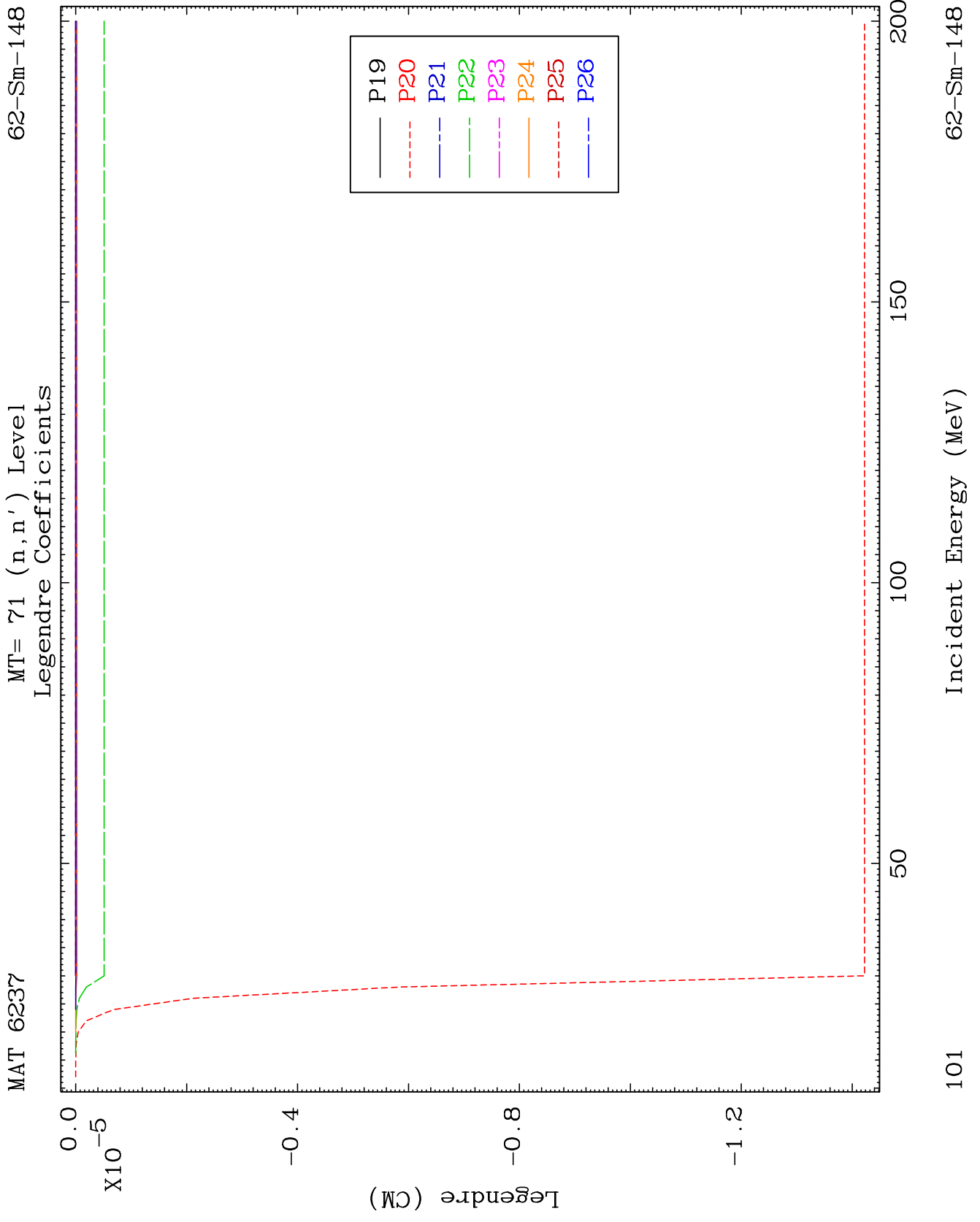
62-Sm-148

MAT 6237

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

62-Sm-148

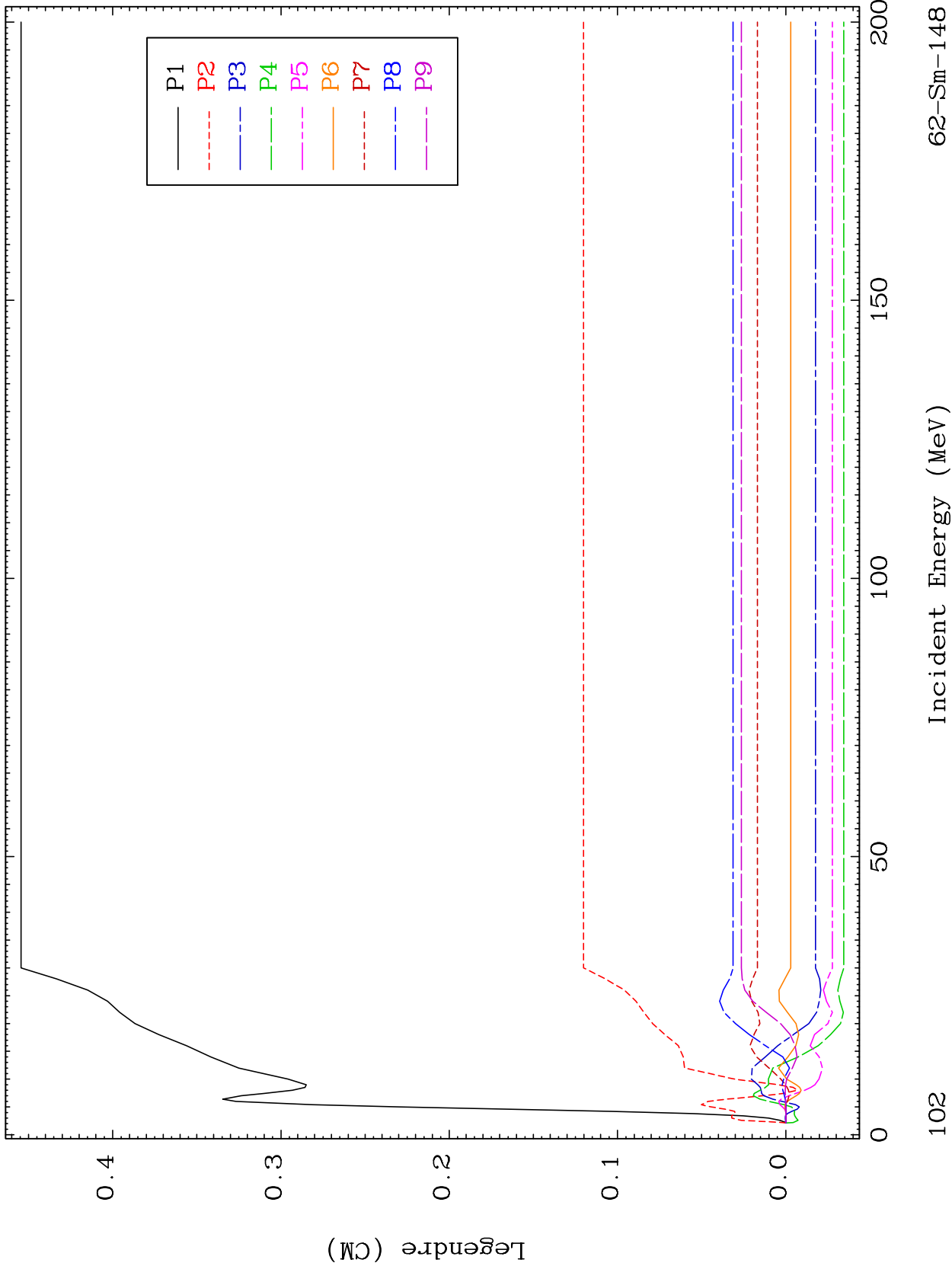




MAT 6237

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

62-Sm-148



62-Sm-148

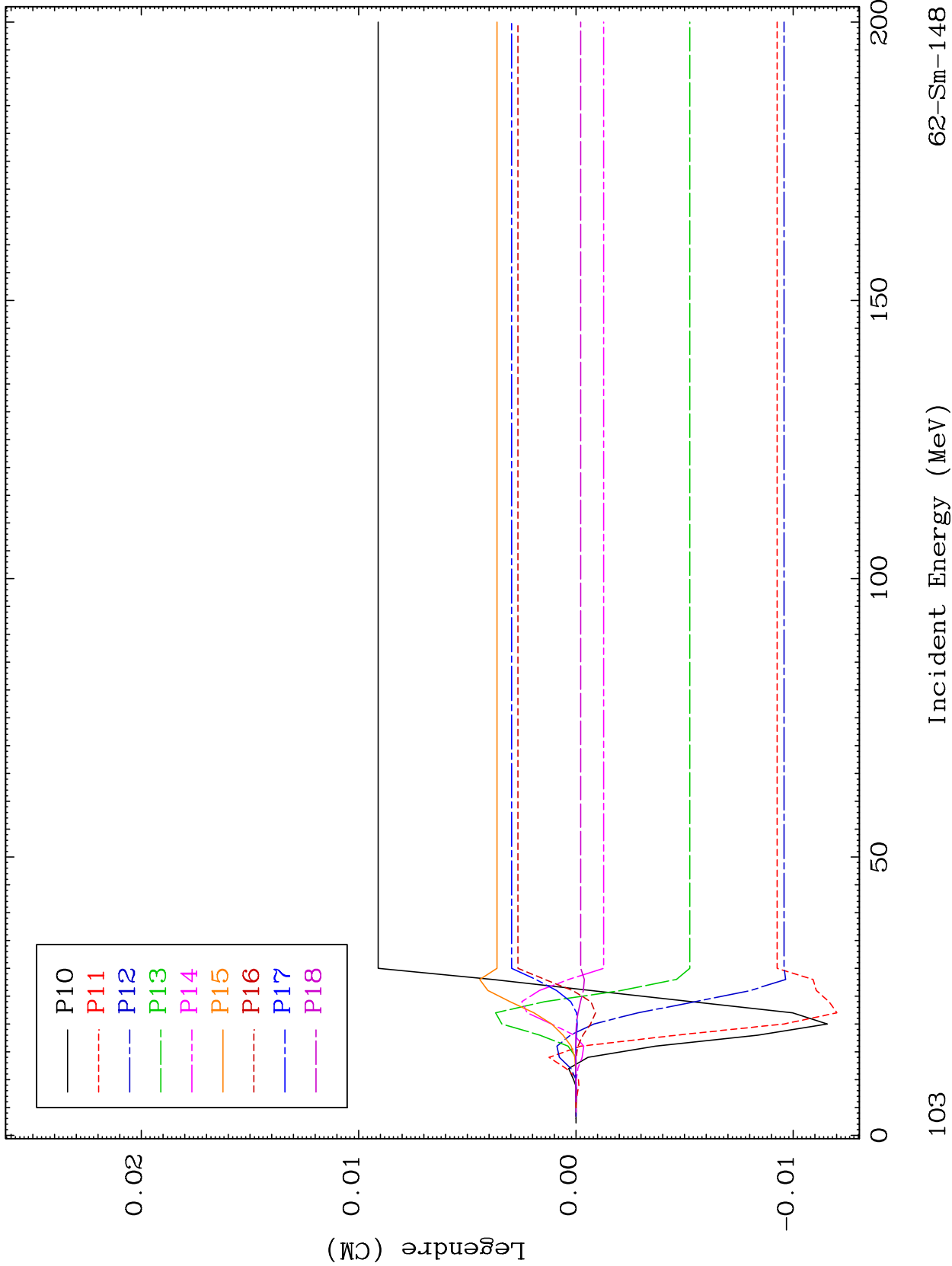
Incident Energy (MeV)

102

MAT 6237

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

62-Sm-148



103

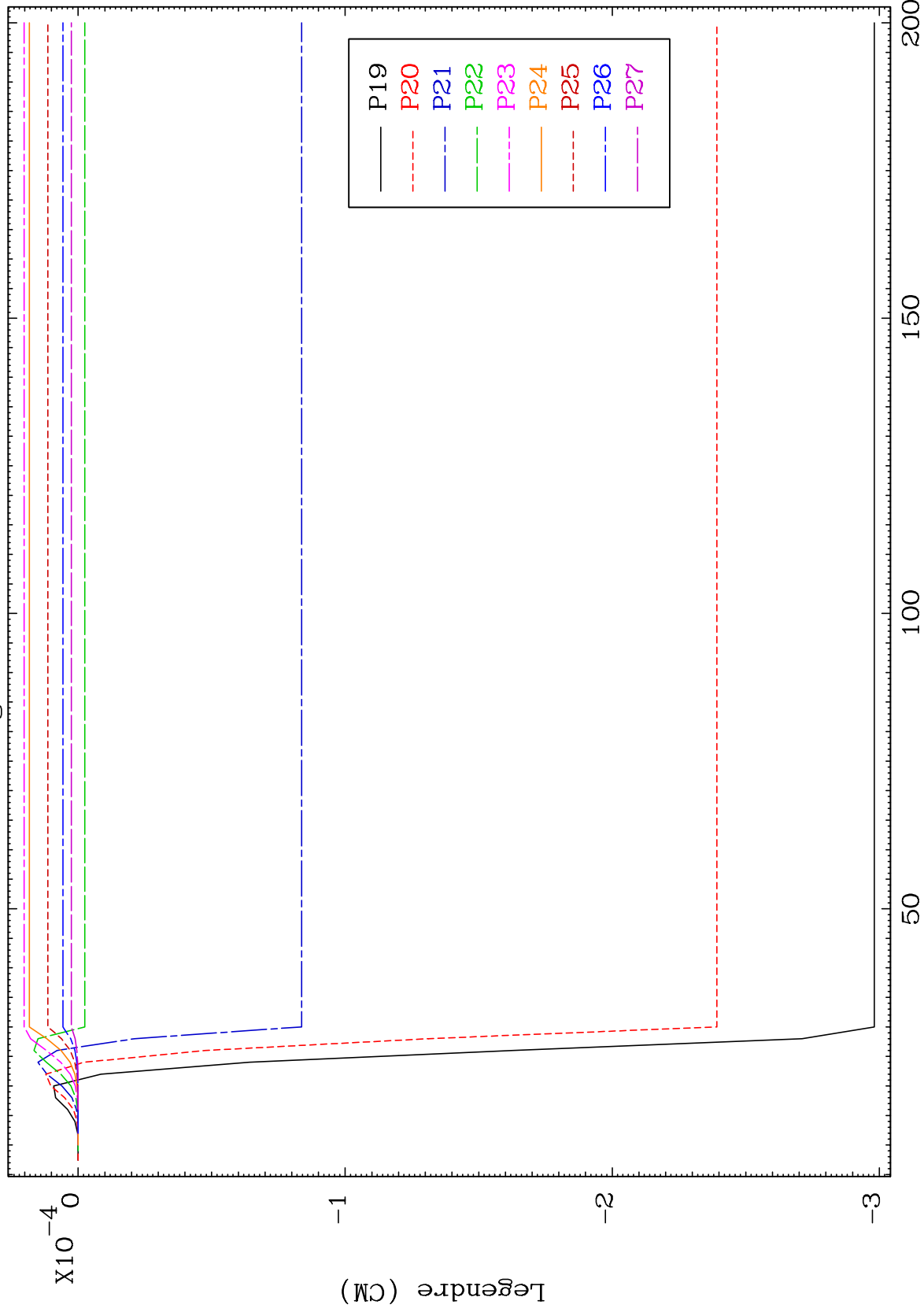
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

62-Sm-148



104

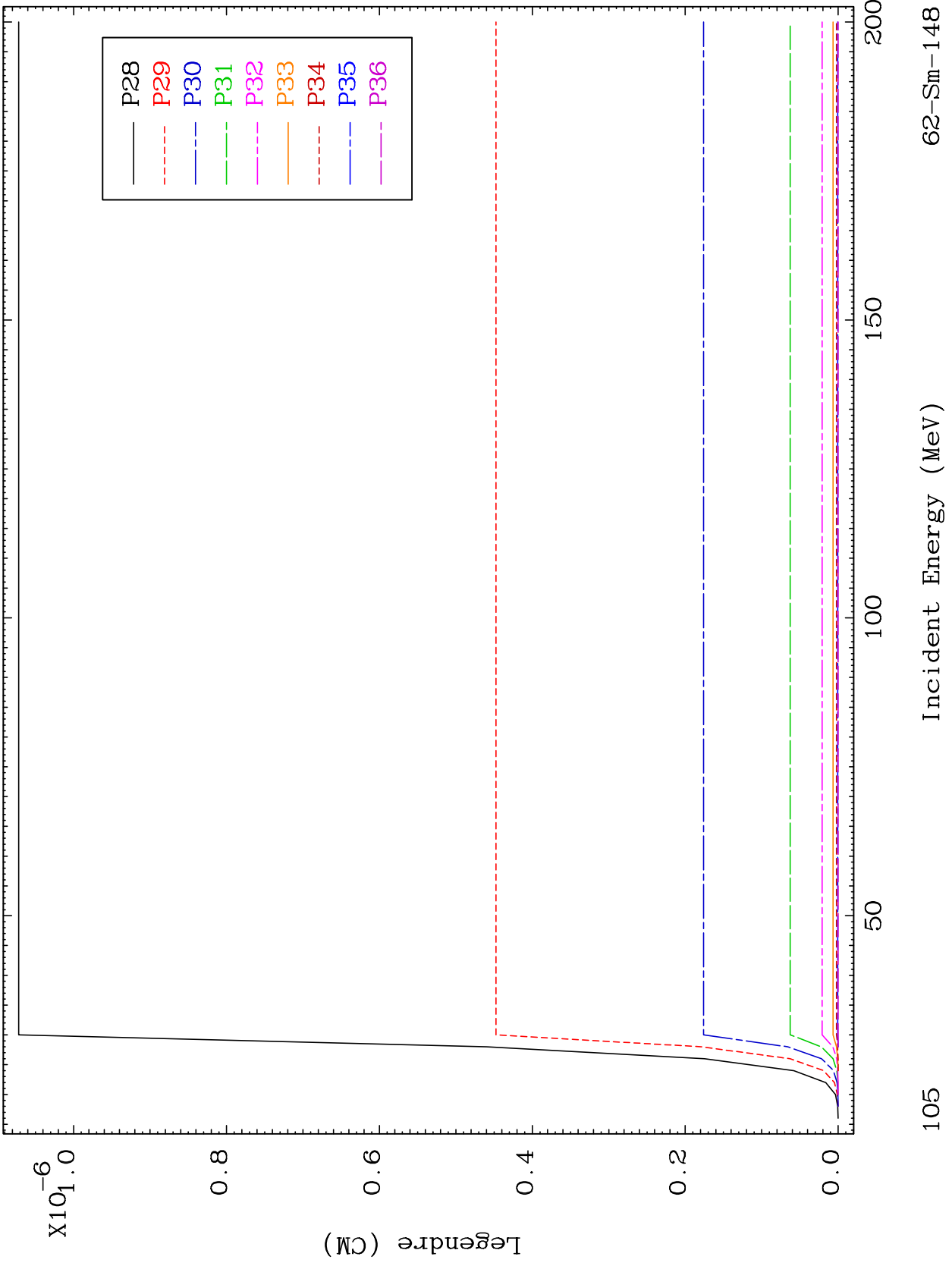
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

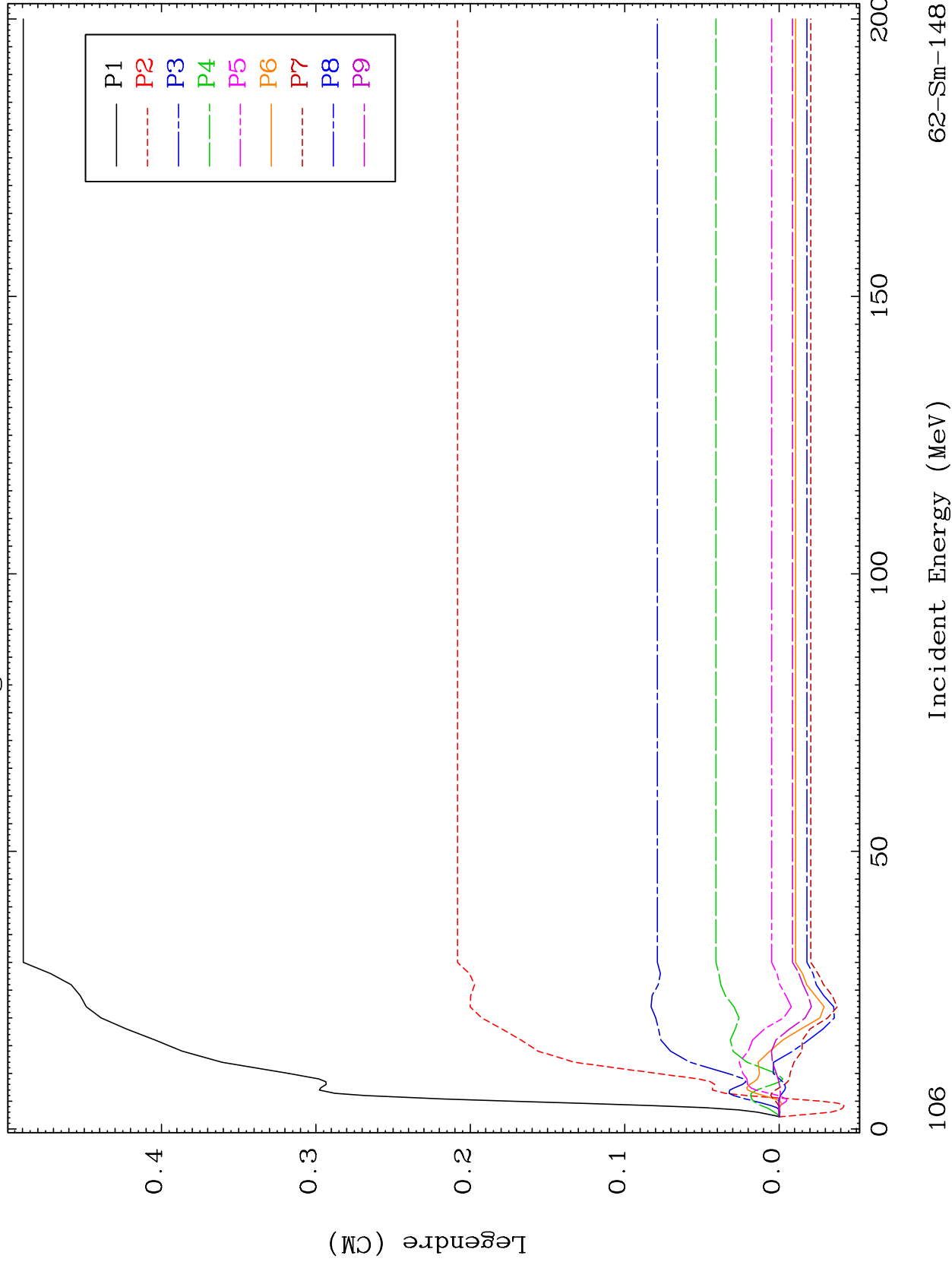
62-Sm-148



MAT 6237

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

62-Sm-148



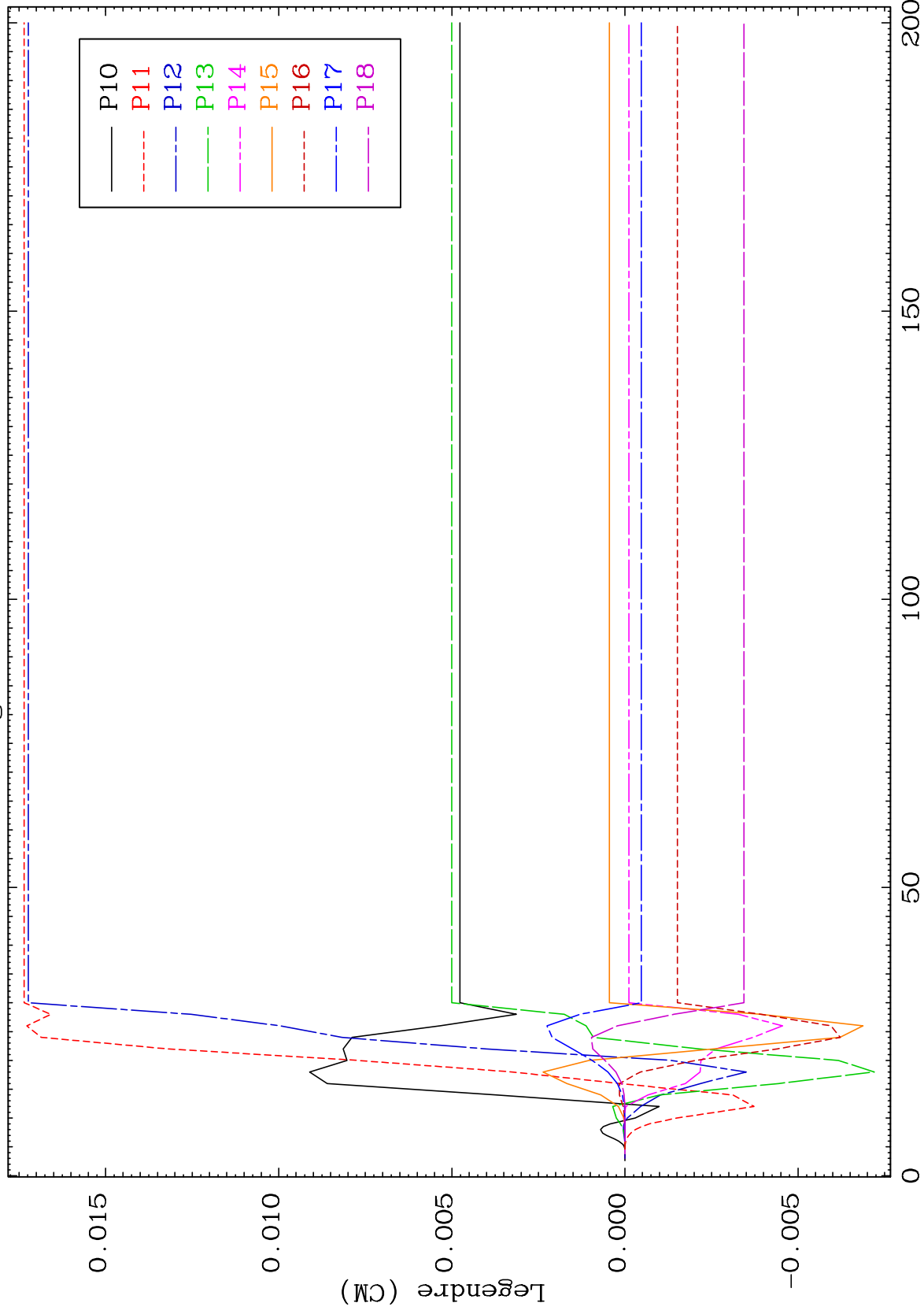
106

62-Sm-148

MAT 6237

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

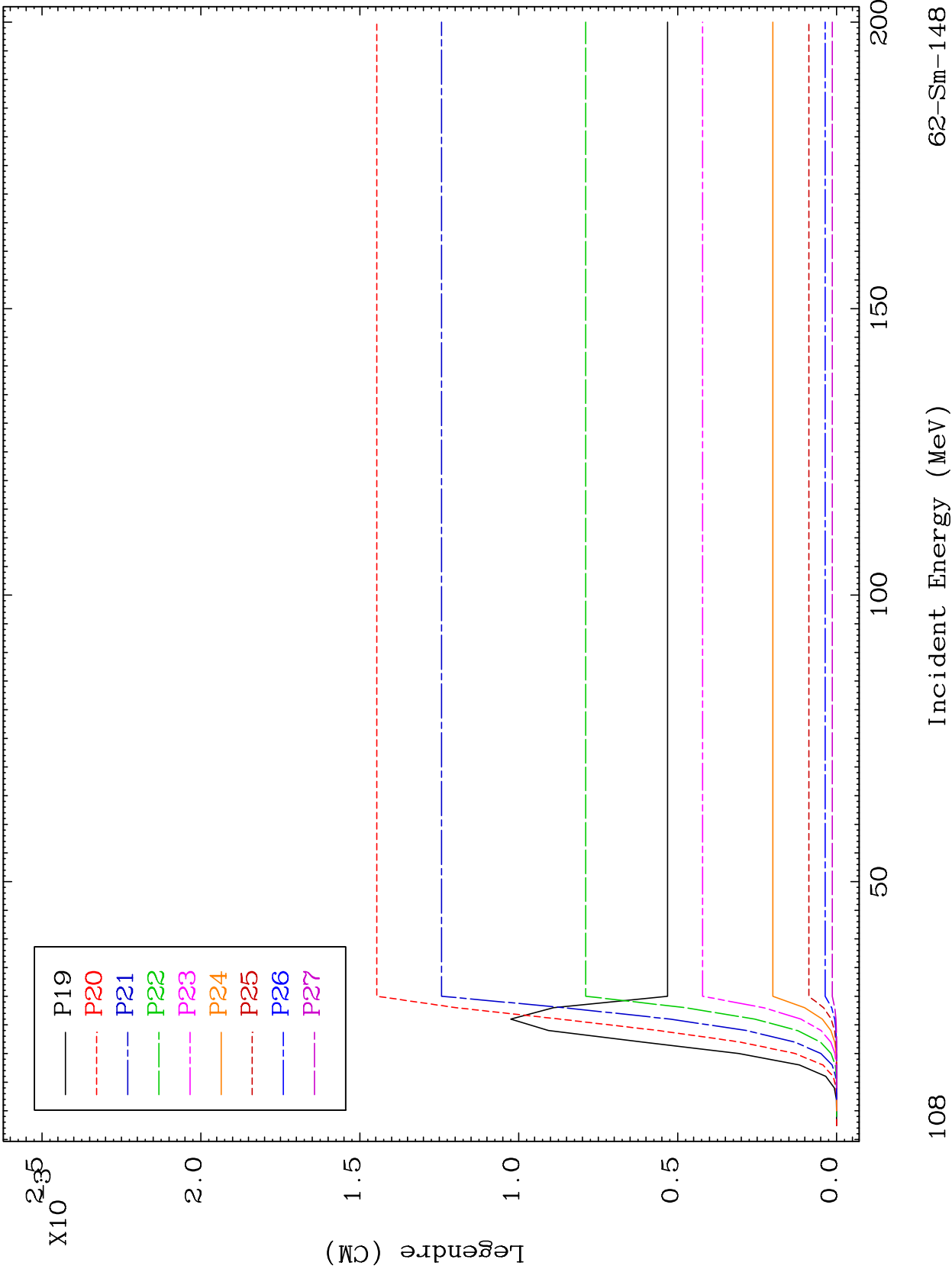
62-Sm-148



107

Incident Energy (MeV)

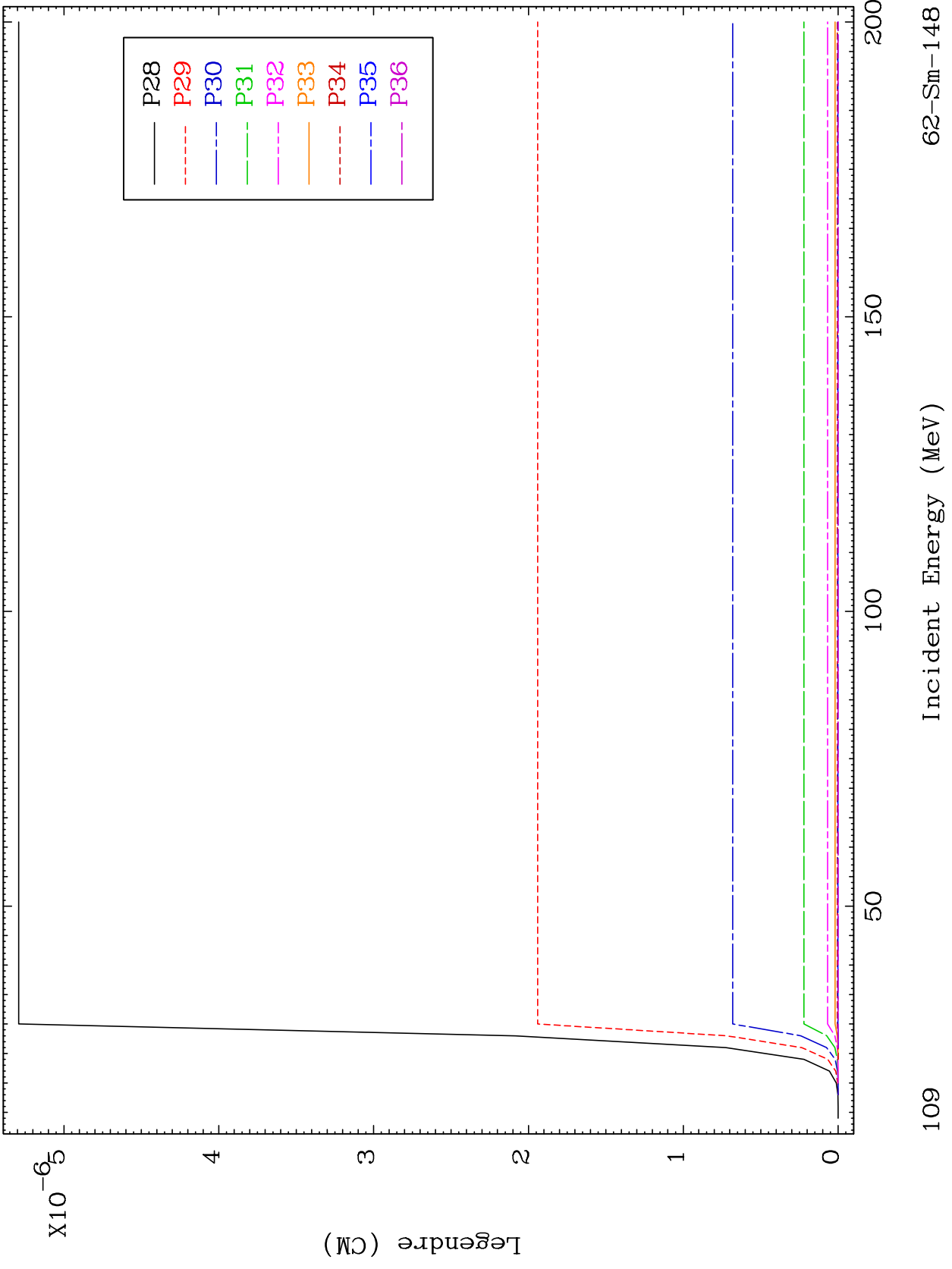
62-Sm-148



MAT 6237

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

62-Sm-148



109

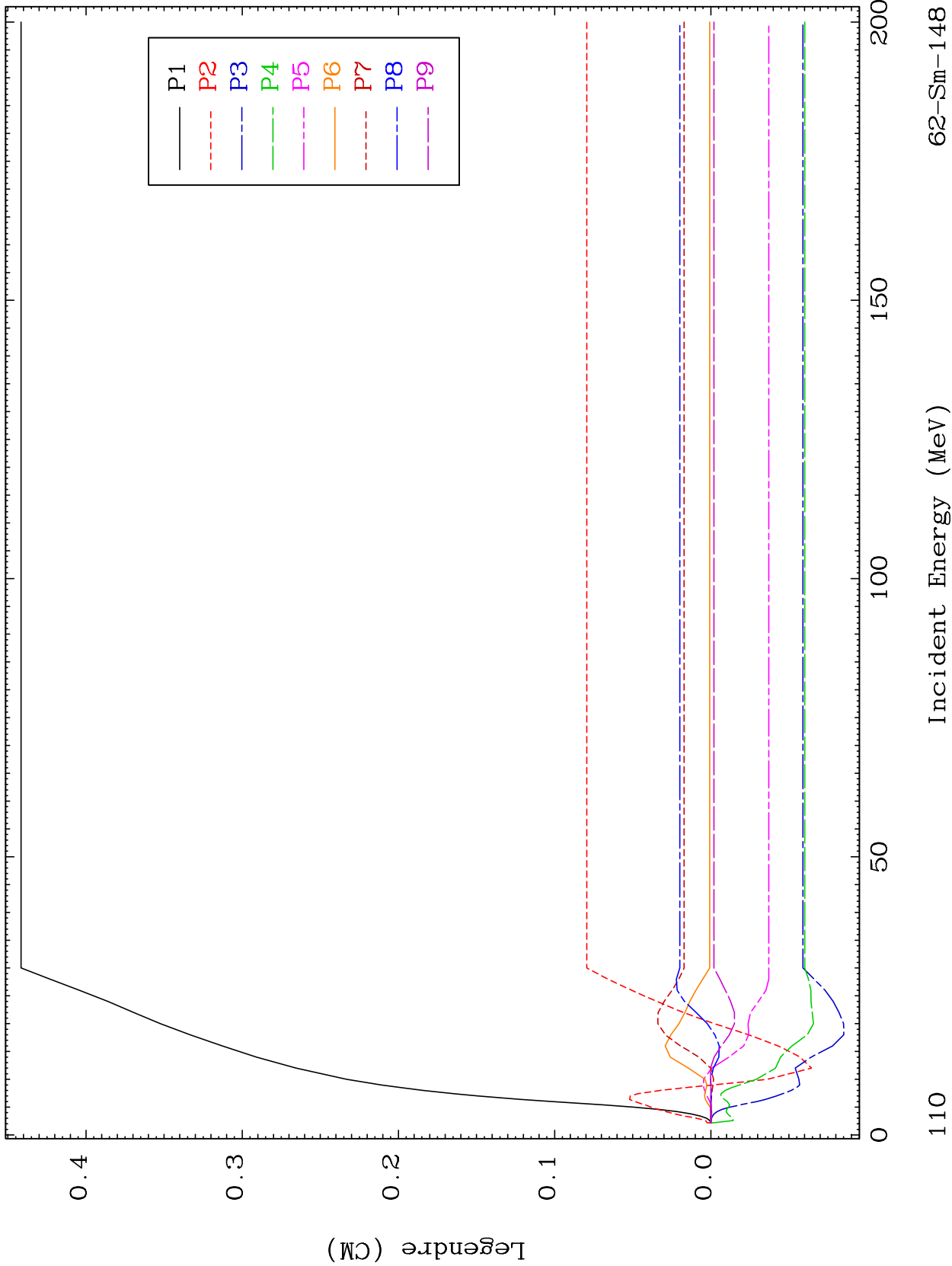
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

62-Sm-148

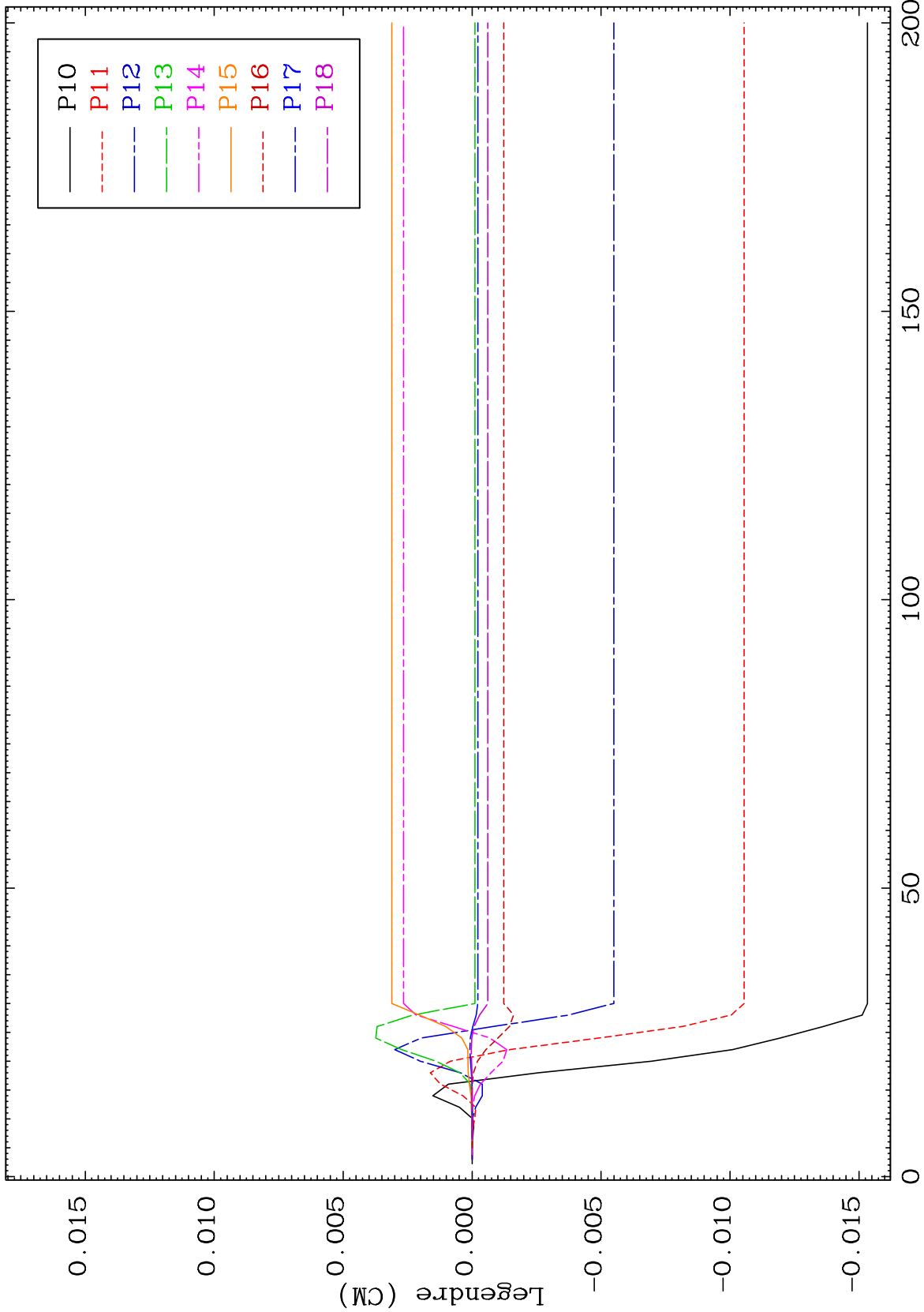


62-Sm-148

MAT 6237

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

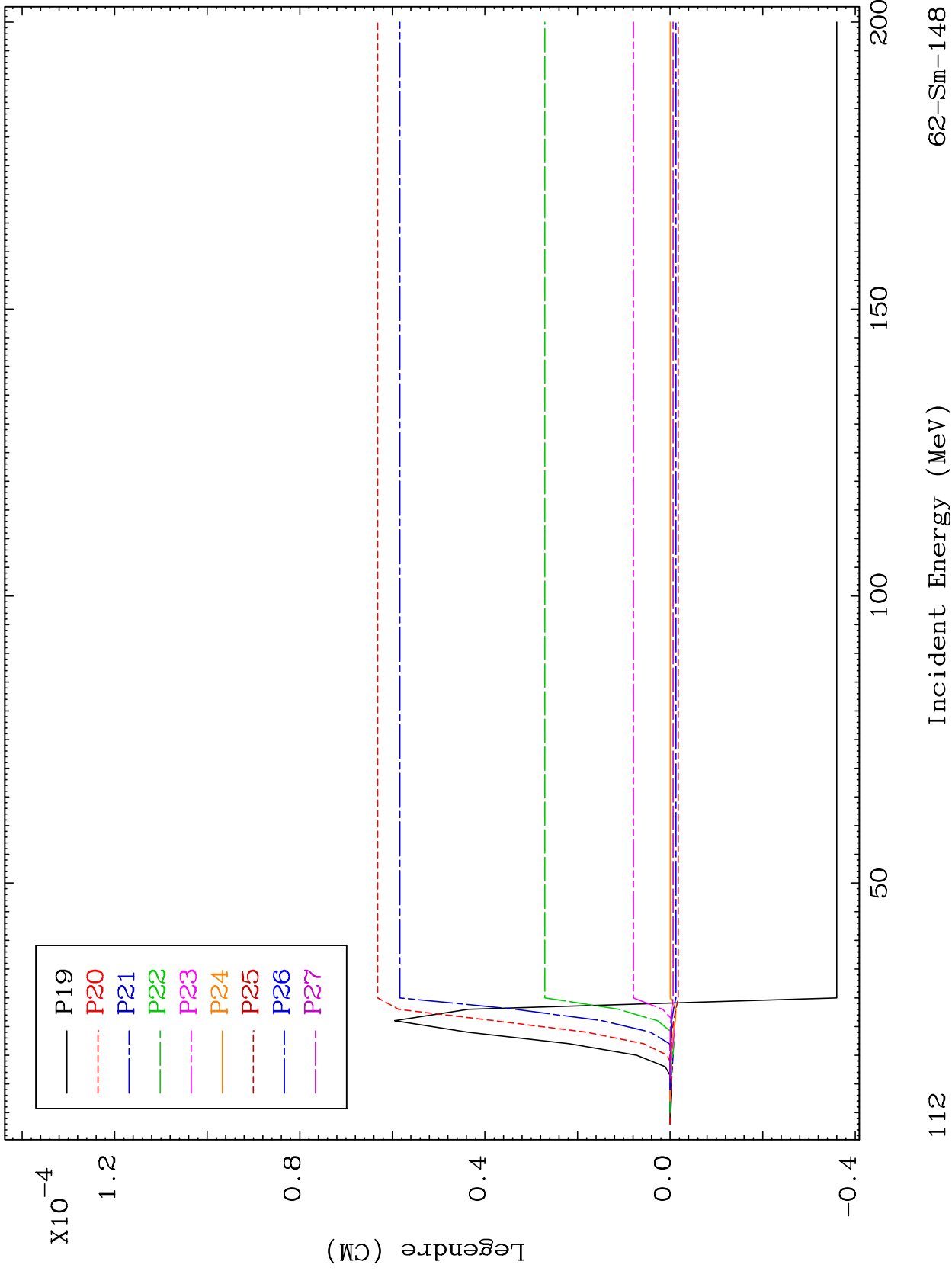
62-Sm-148



111

Incident Energy (MeV)

62-Sm-148

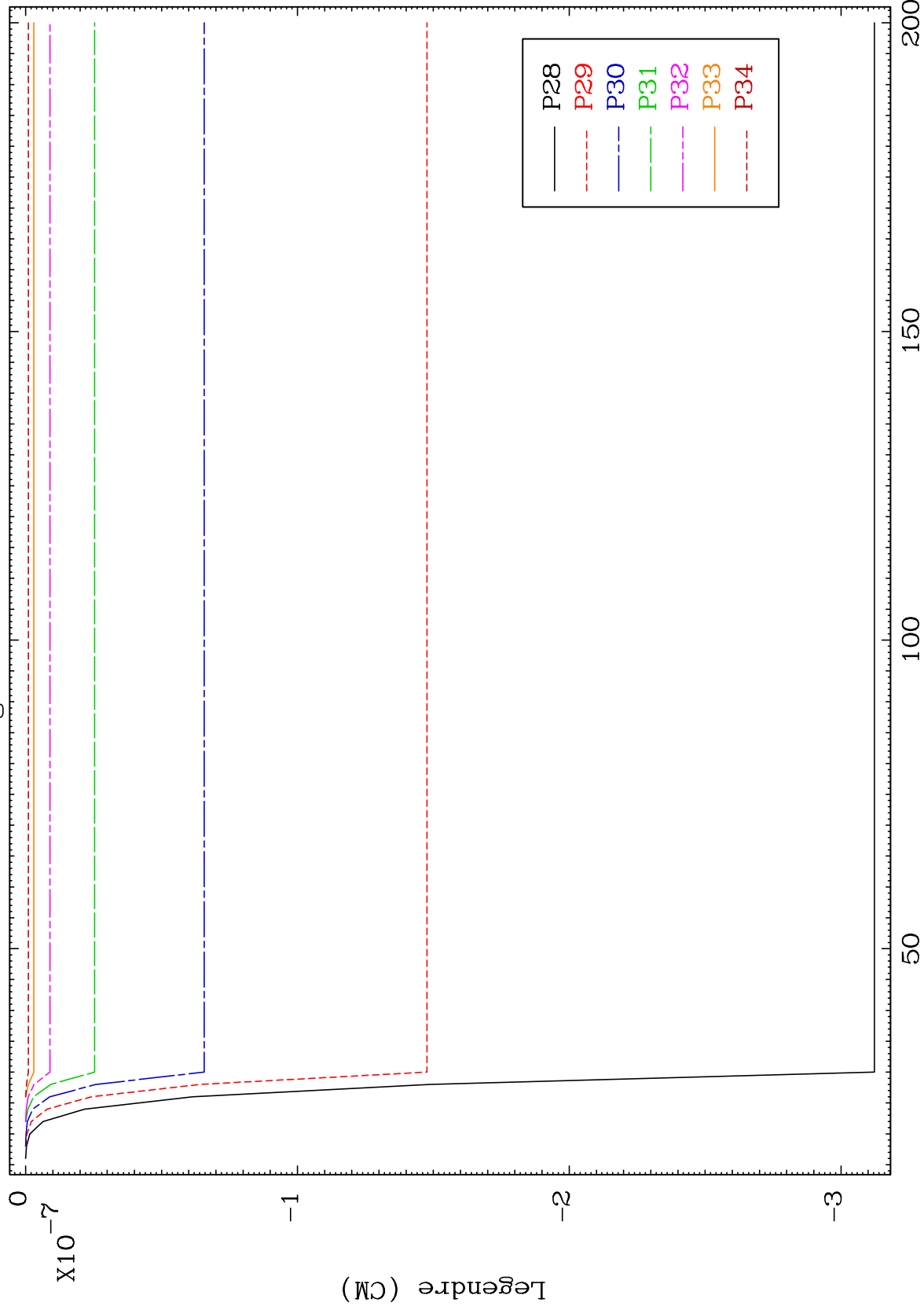


MAT 6237

MT= 74 (n,n') Level

62-Sm-148

Legendre Coefficients



113

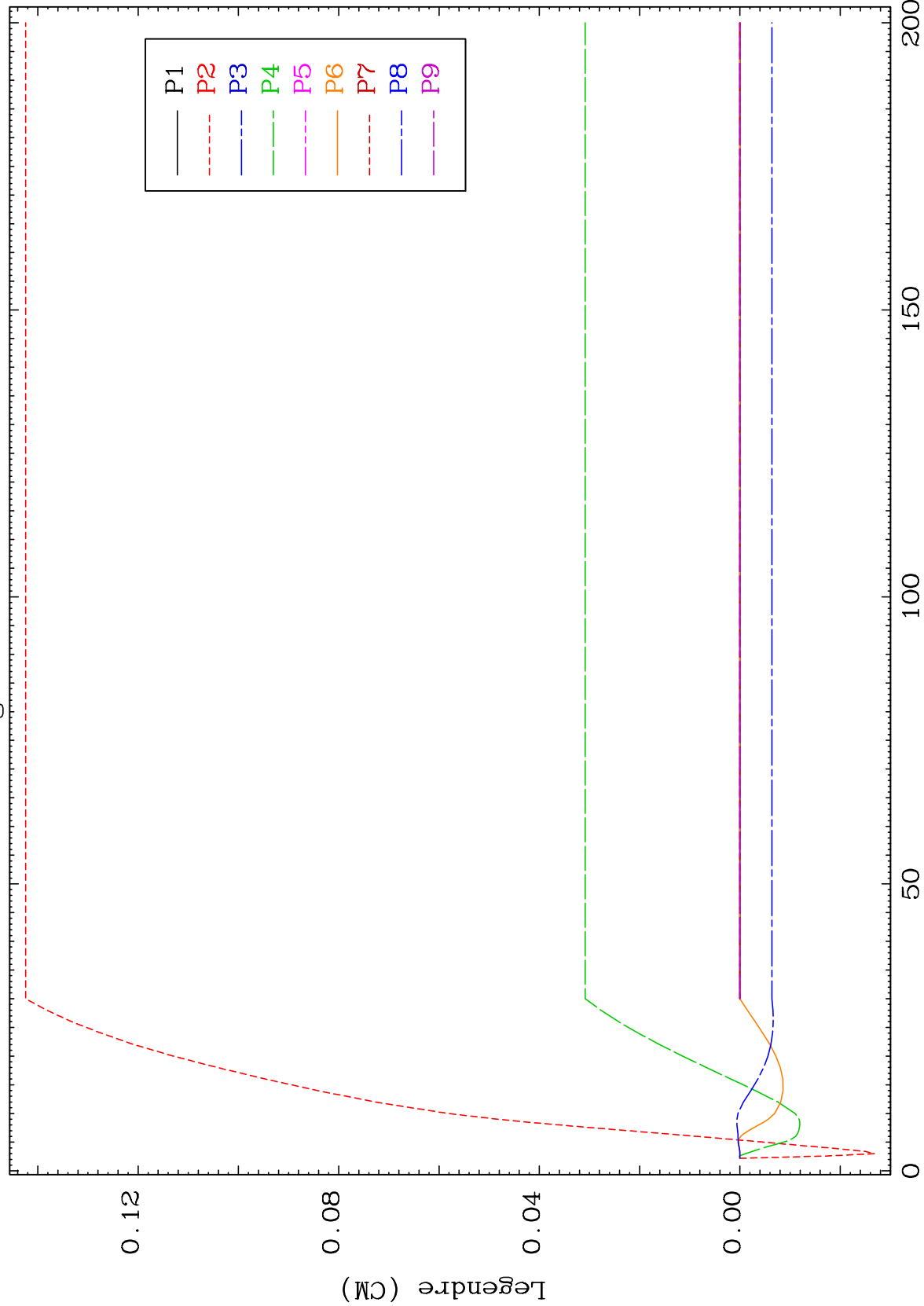
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

62-Sm-148



62-Sm-148

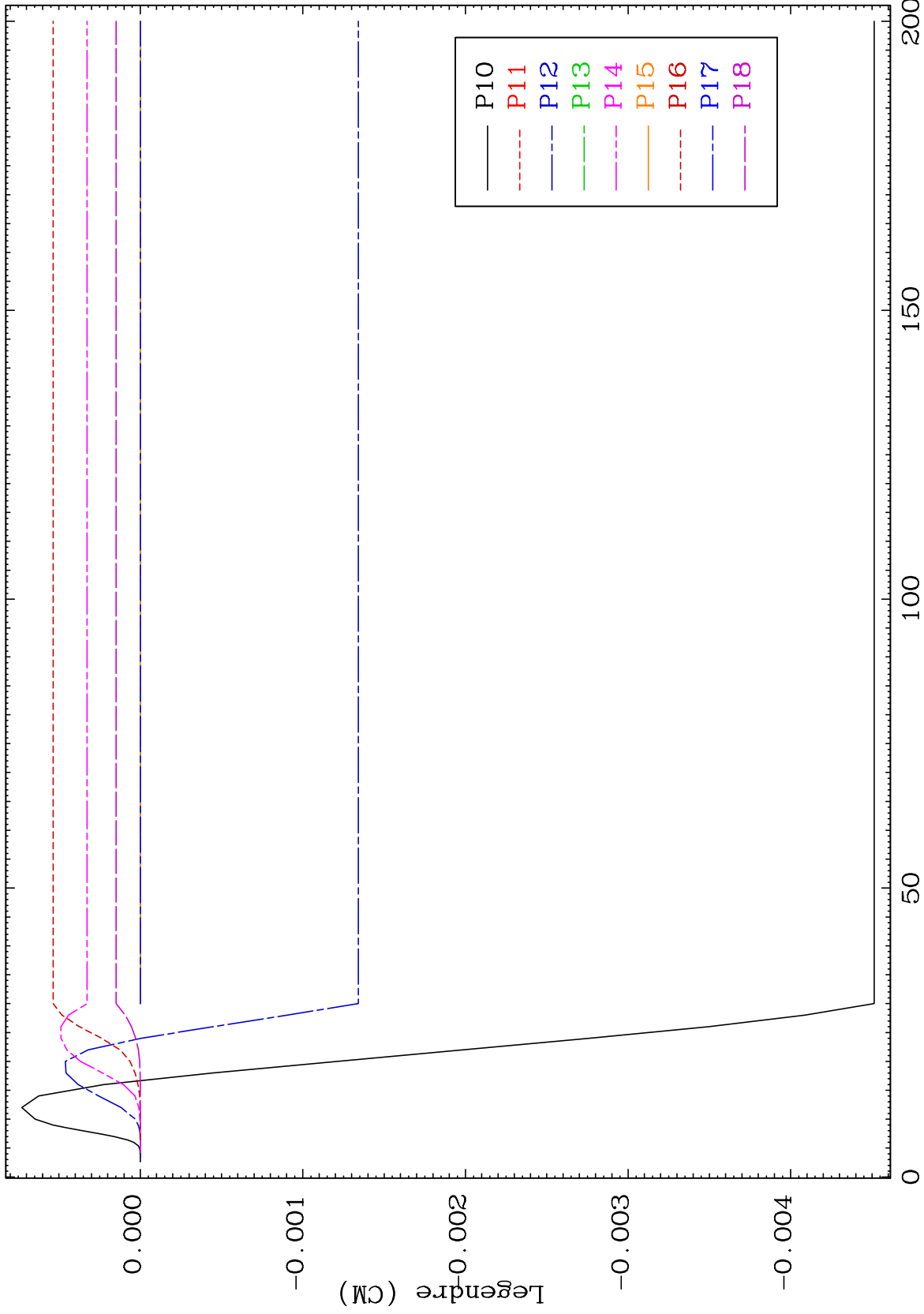
Incident Energy (MeV)

114

MAT 6237

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

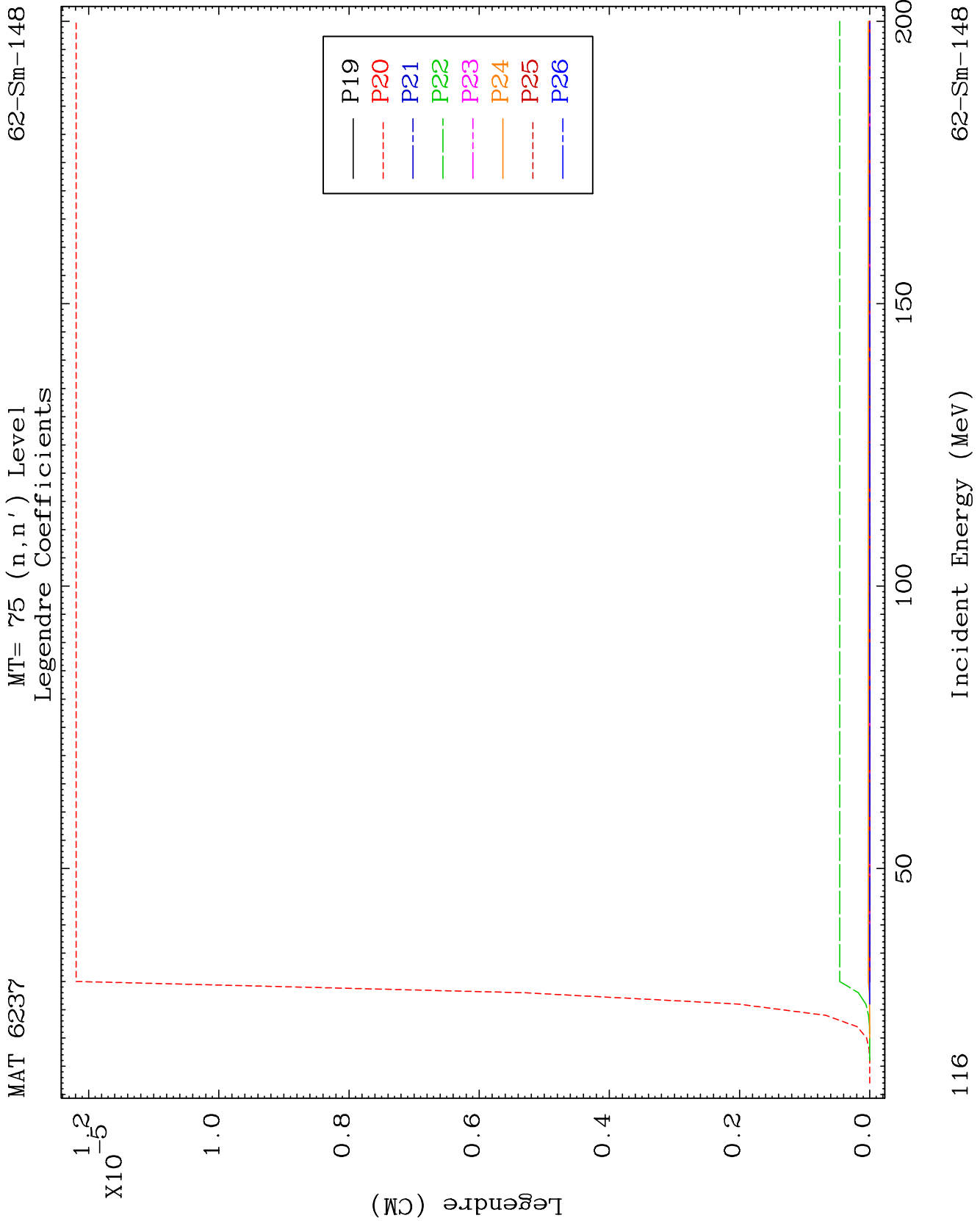
62-Sm-148



115

Incident Energy (MeV)

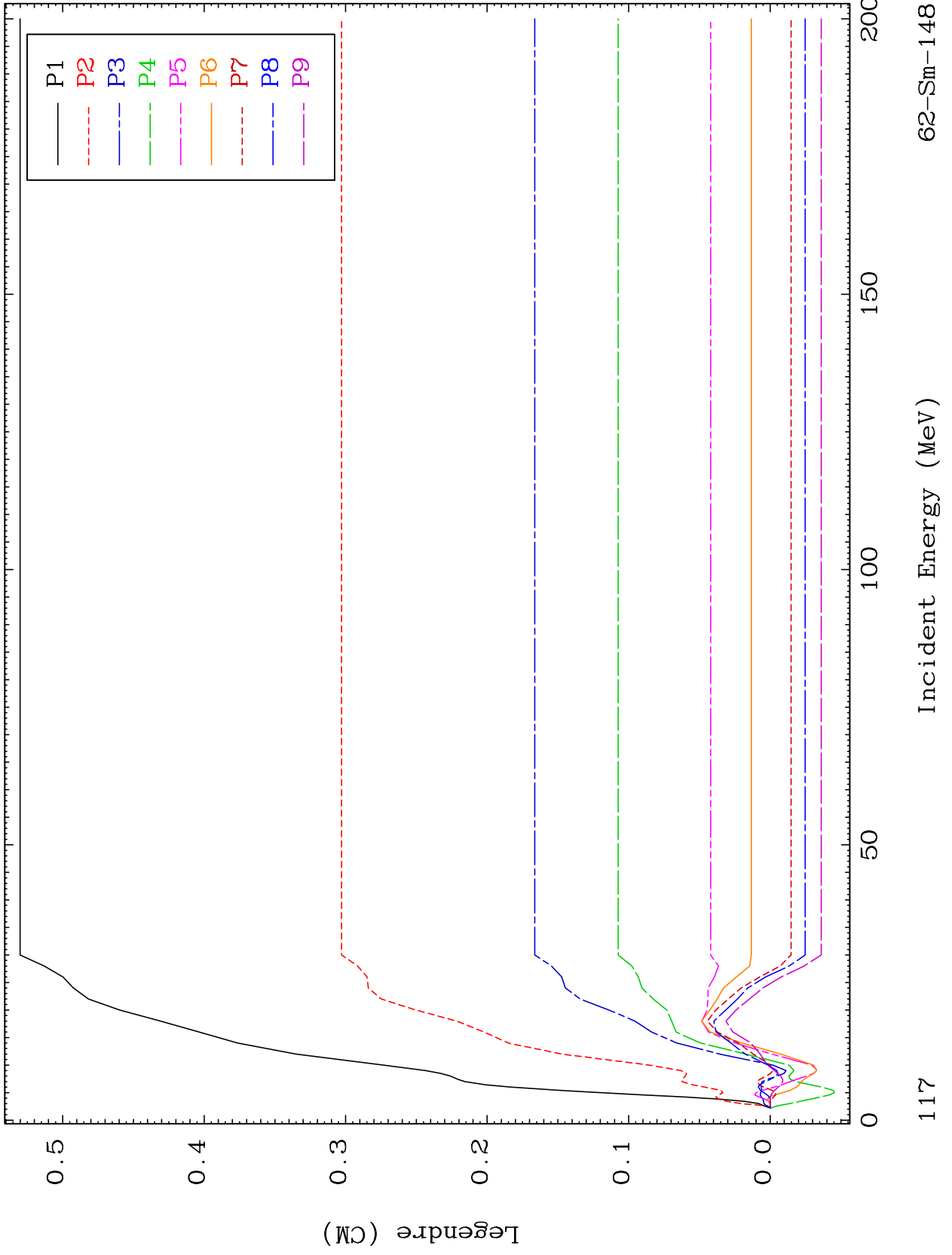
62-Sm-148



MAT 6237

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

62-Sm-148

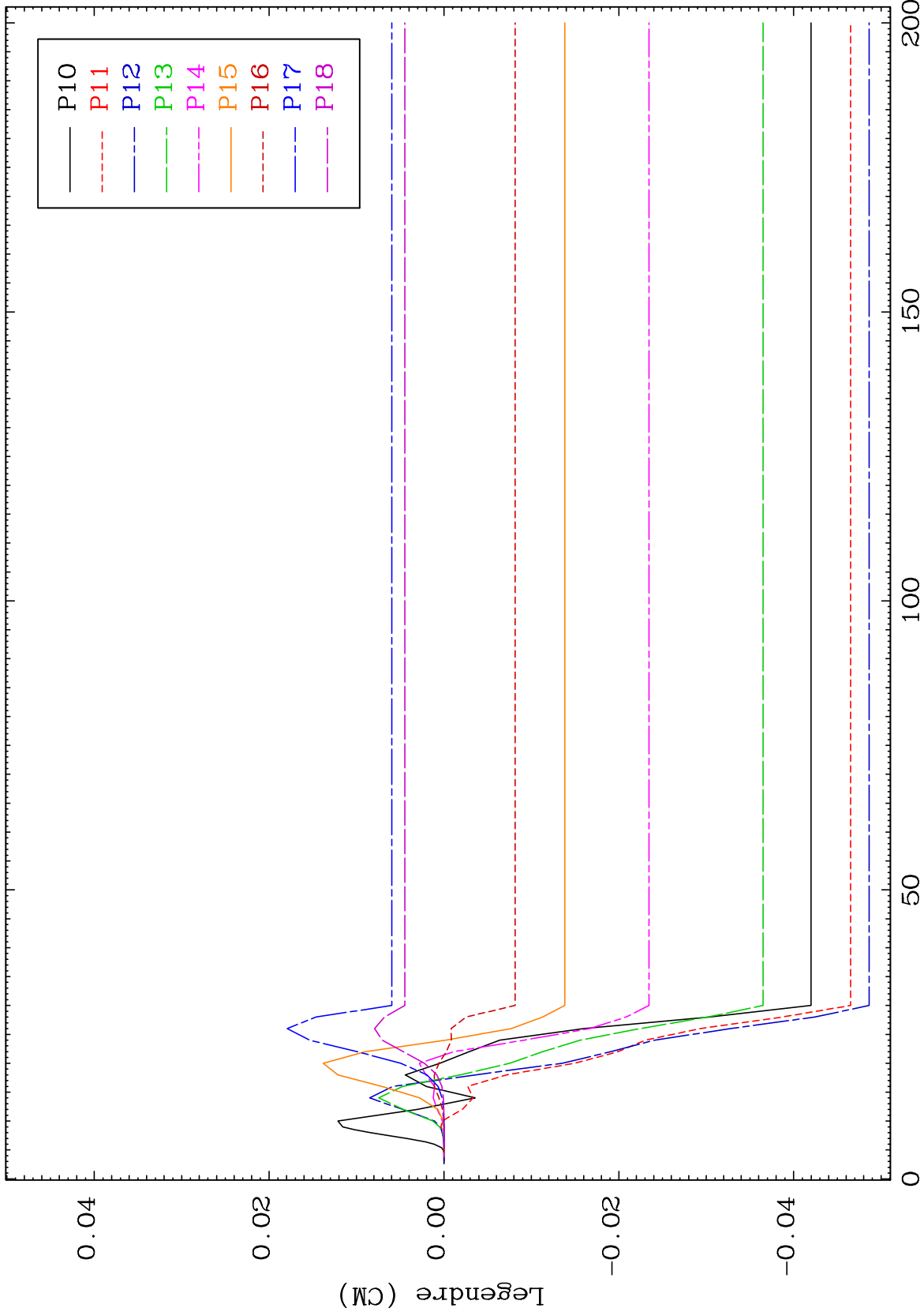


117

MAT 6237

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

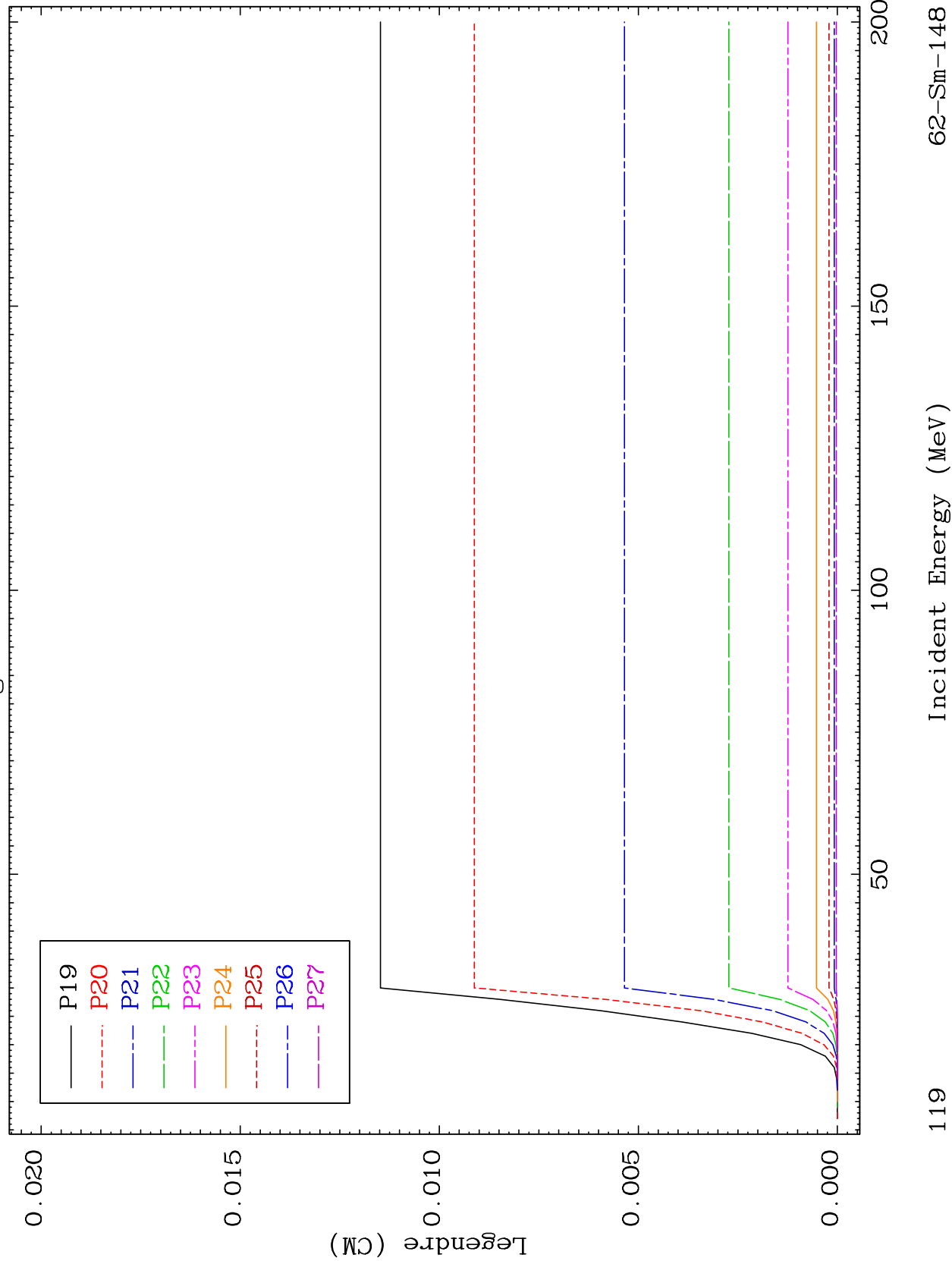
62-Sm-148



118

Incident Energy (MeV)

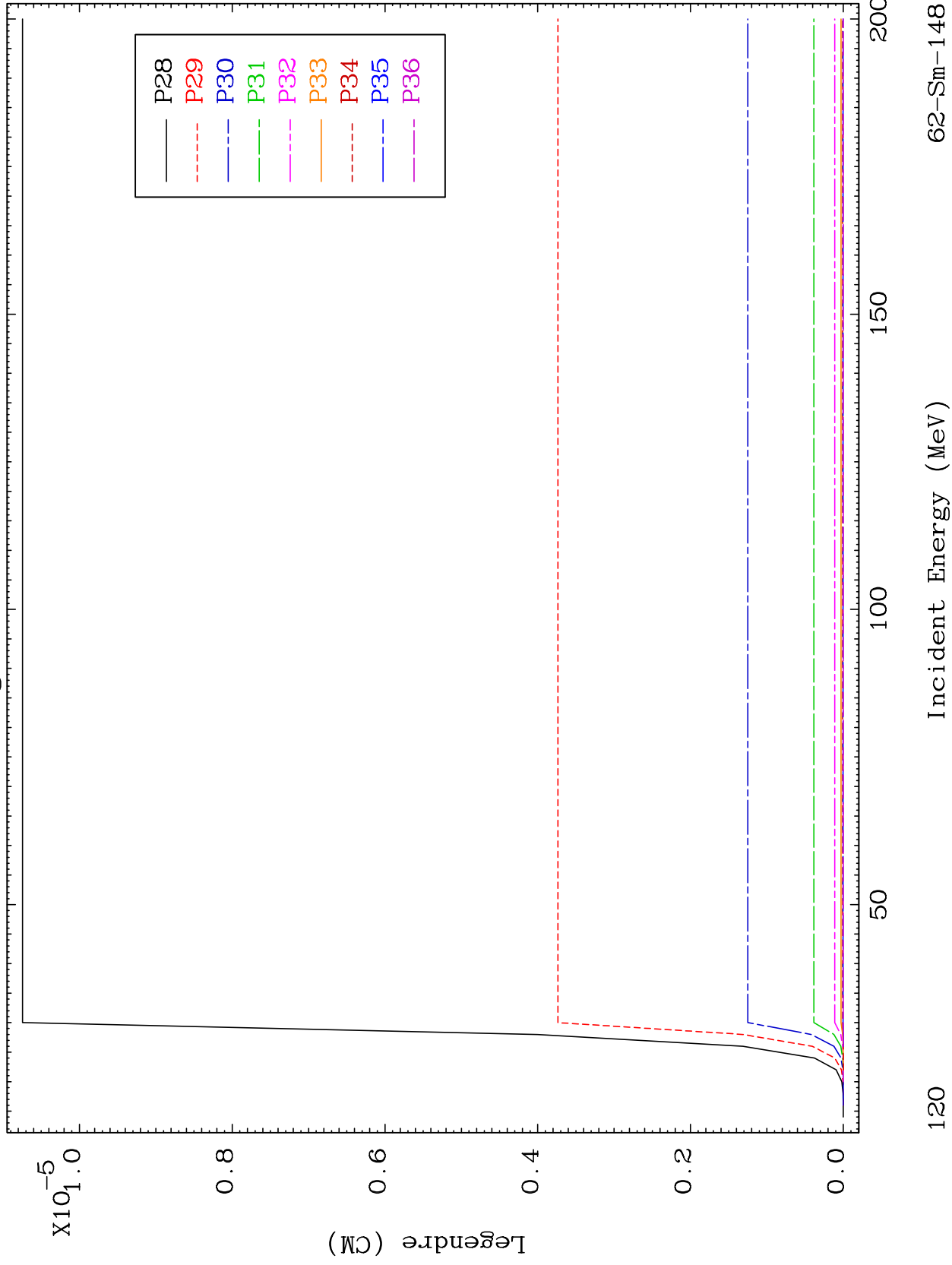
62-Sm-148



MAT 6237

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

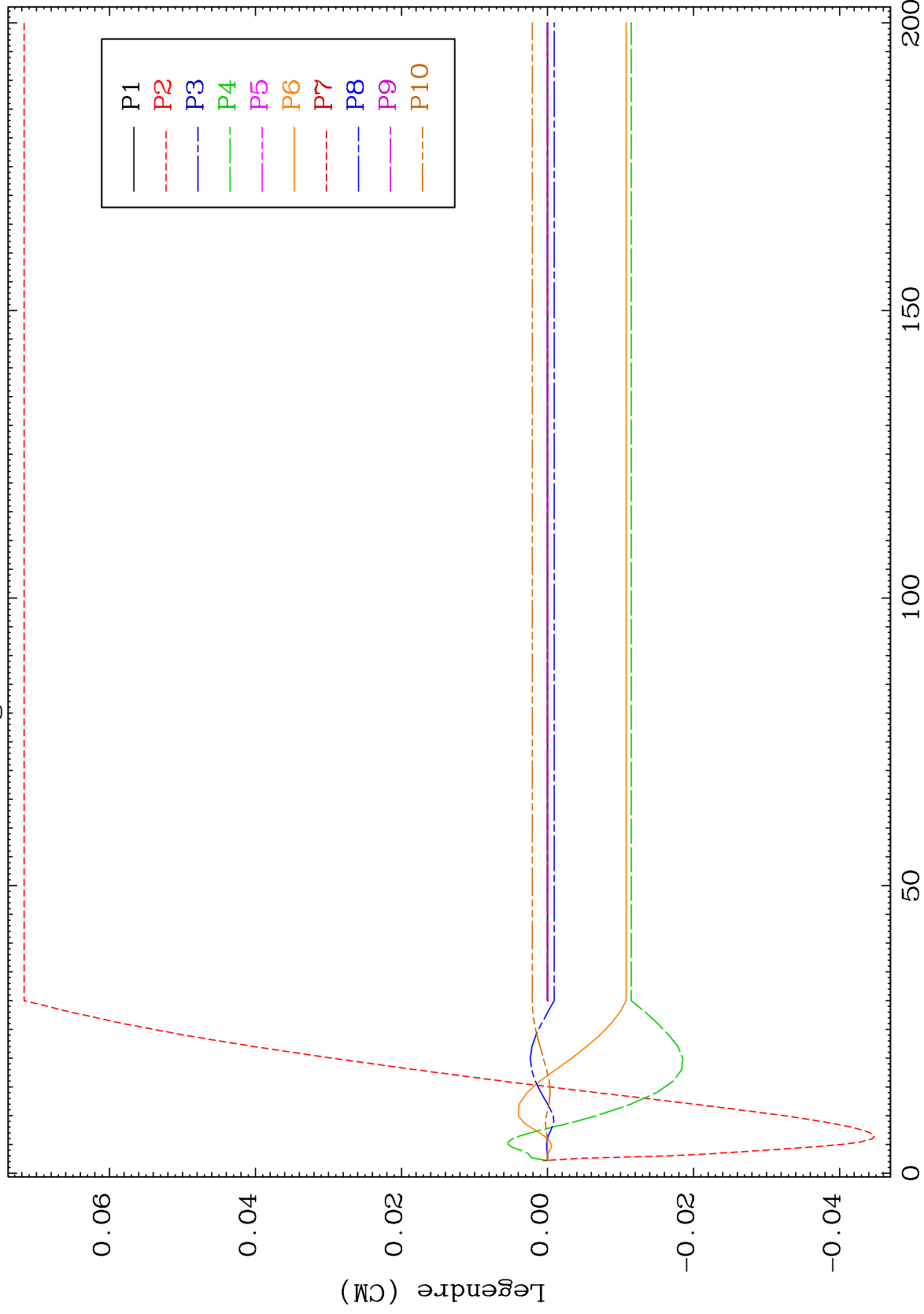
62-Sm-148



MAT 6237

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

62-Sm-148



121

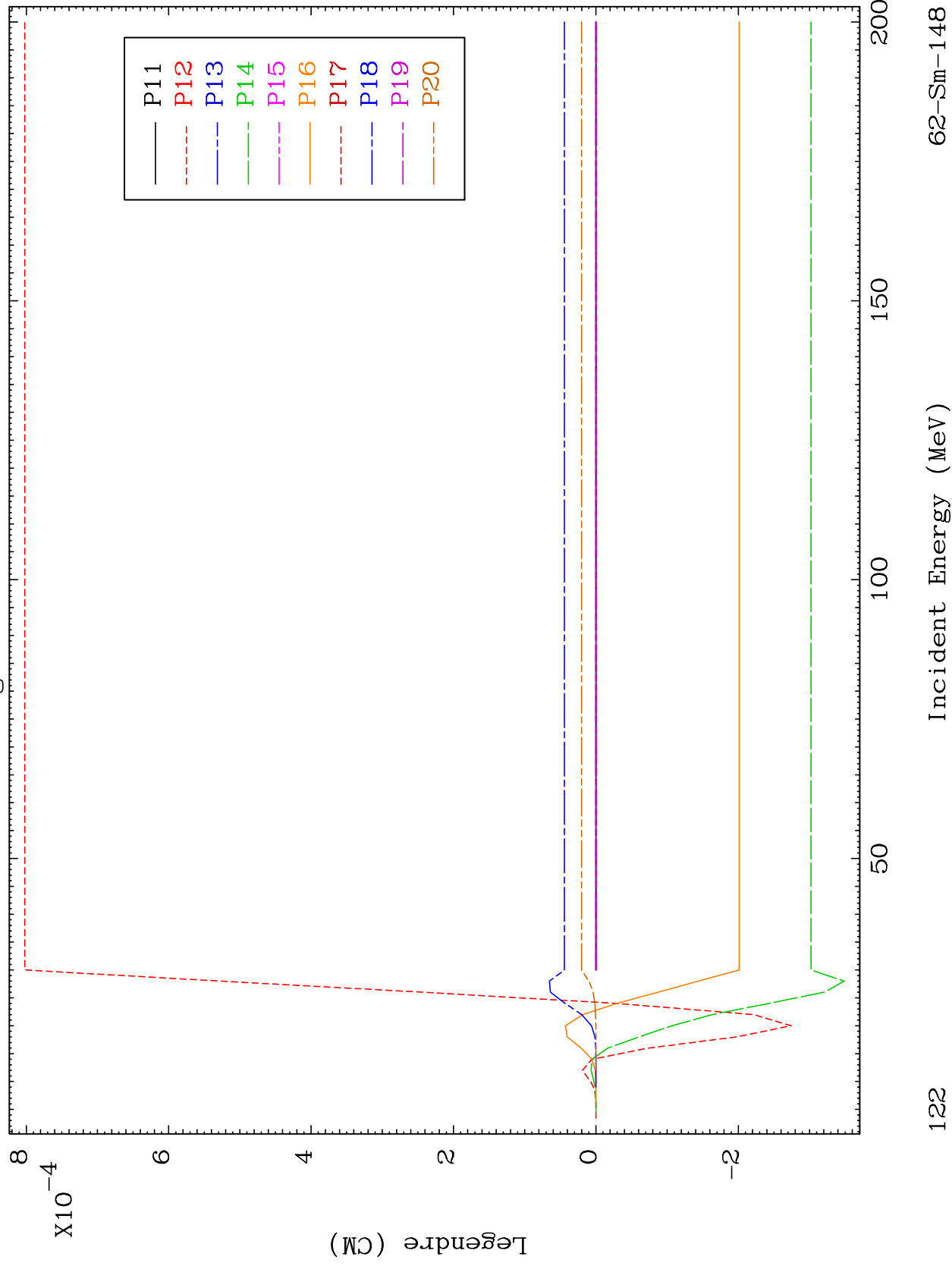
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

62-Sm-148



122

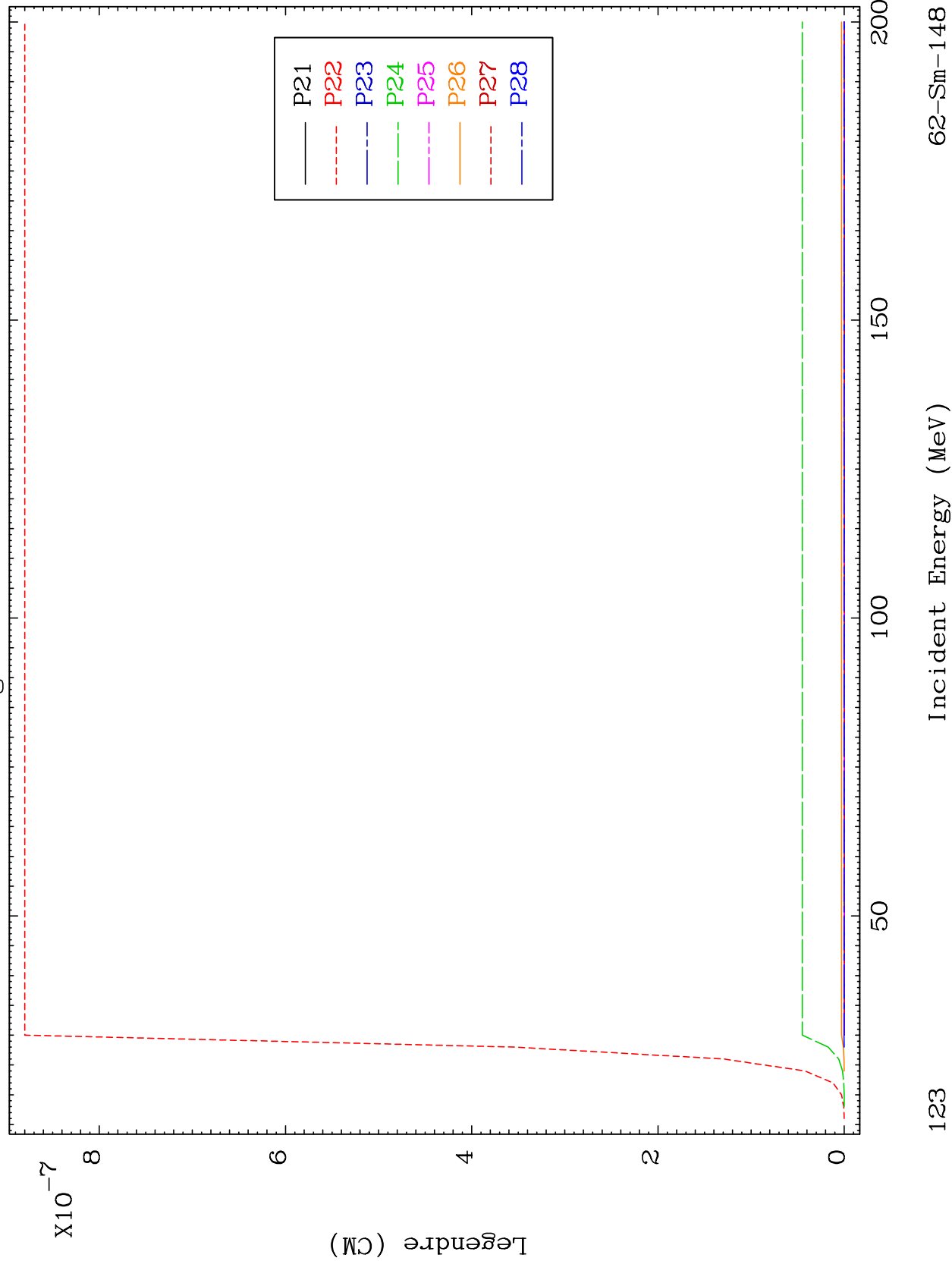
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

62-Sm-148



123

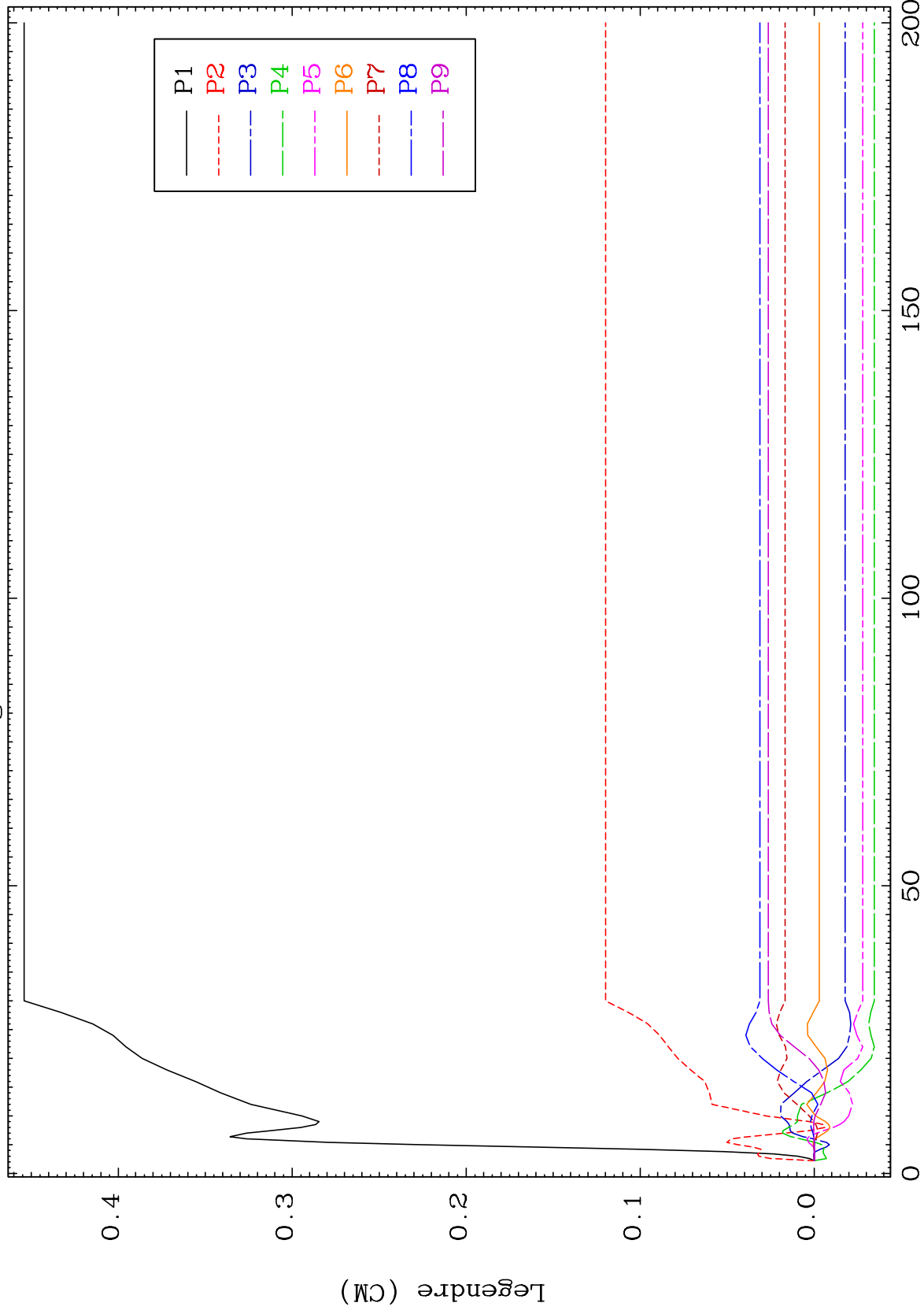
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

62-Sm-148



124

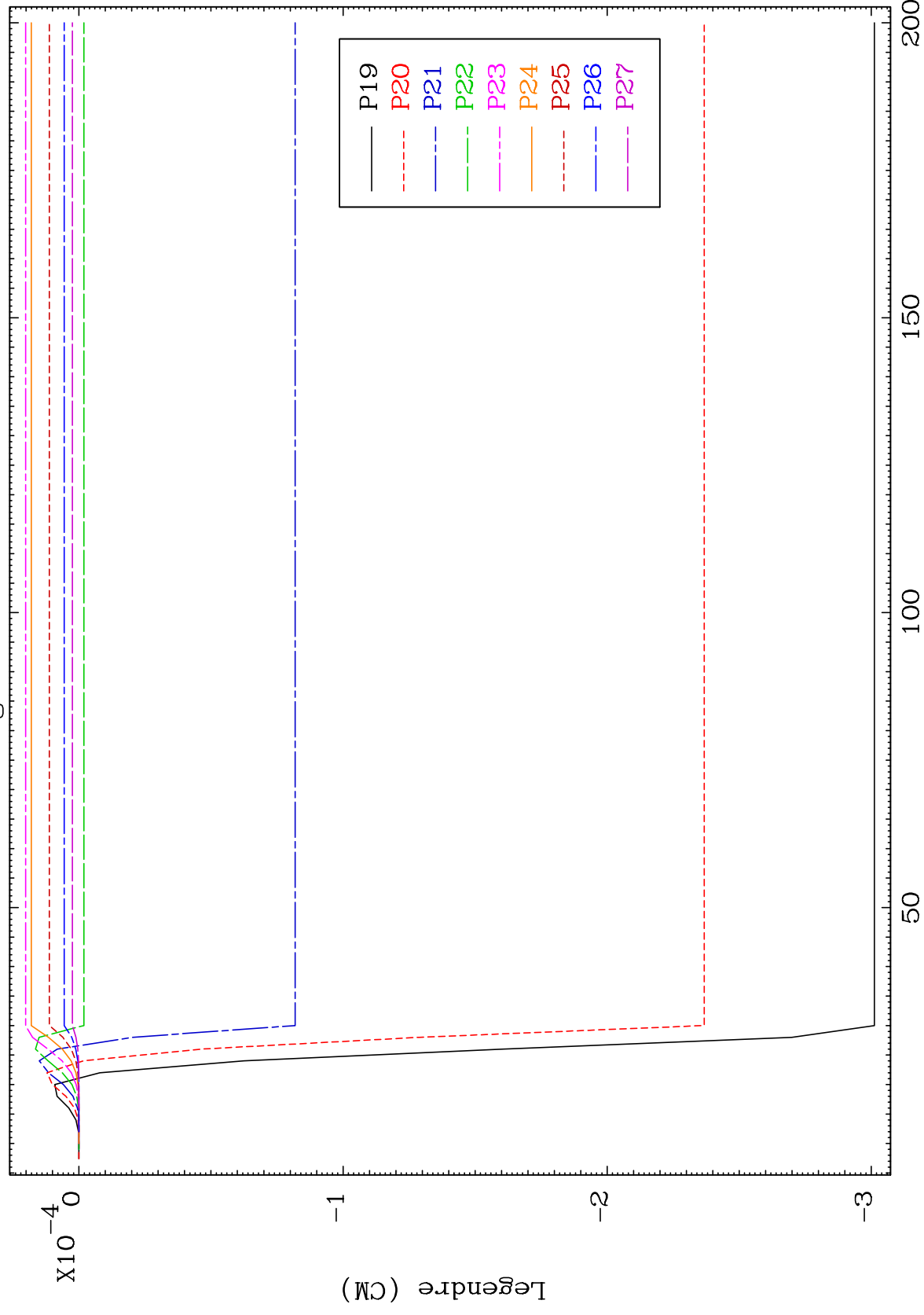
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

62-Sm-148



126

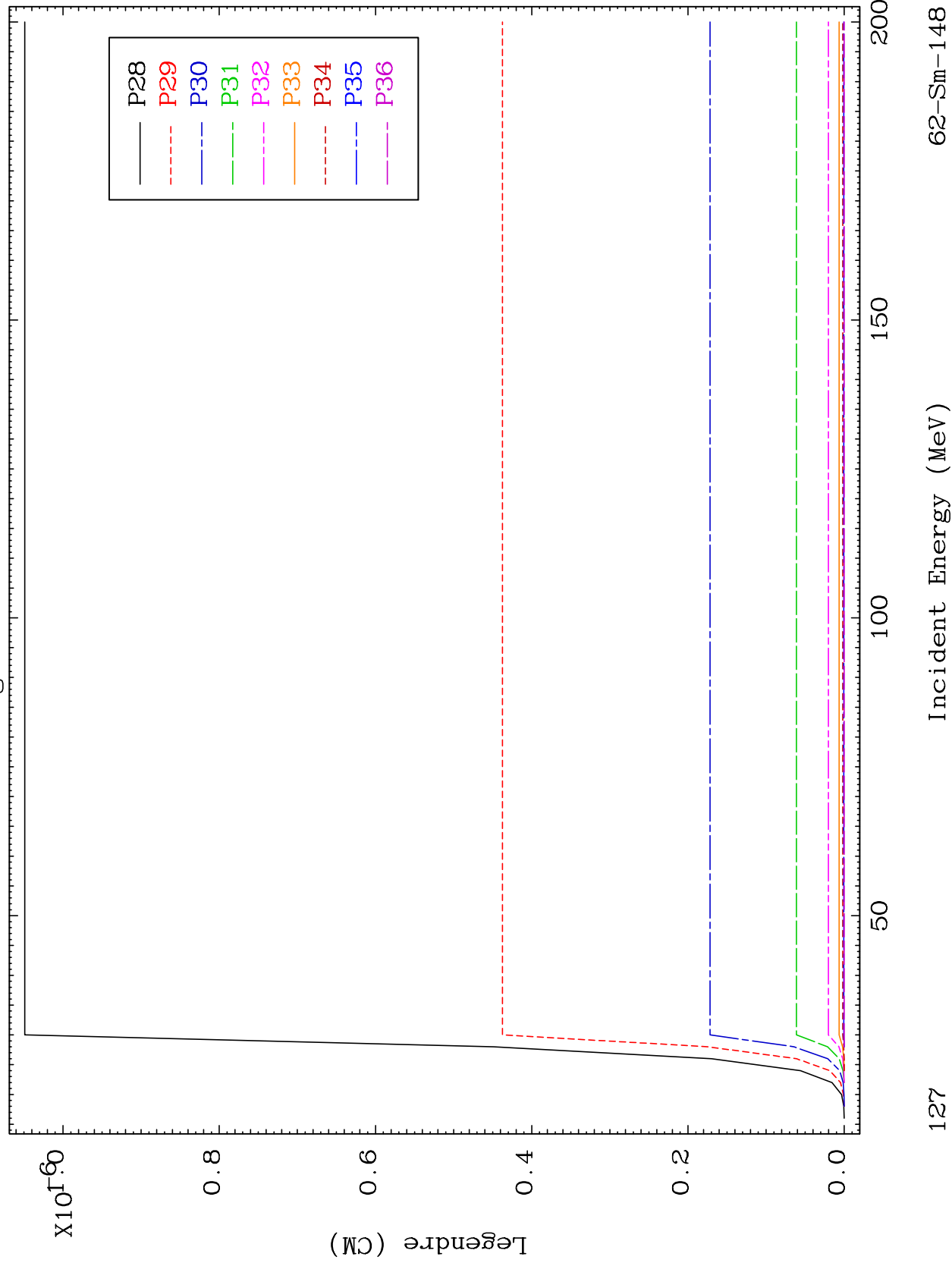
Incident Energy (MeV)

62-Sm-148

MAT 6237

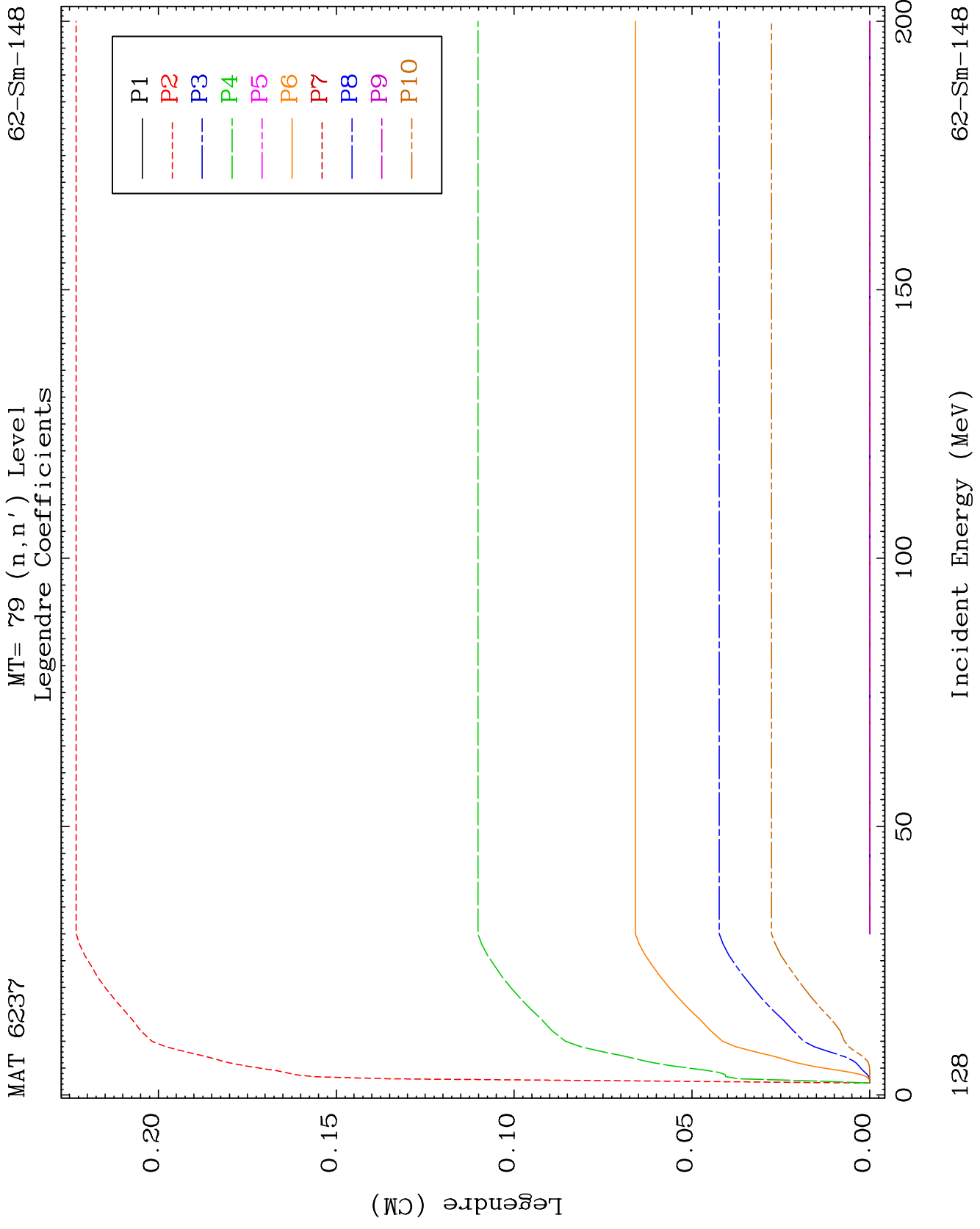
MT= 78 (n,n') Level
Legendre Coefficients

62-Sm-148



127

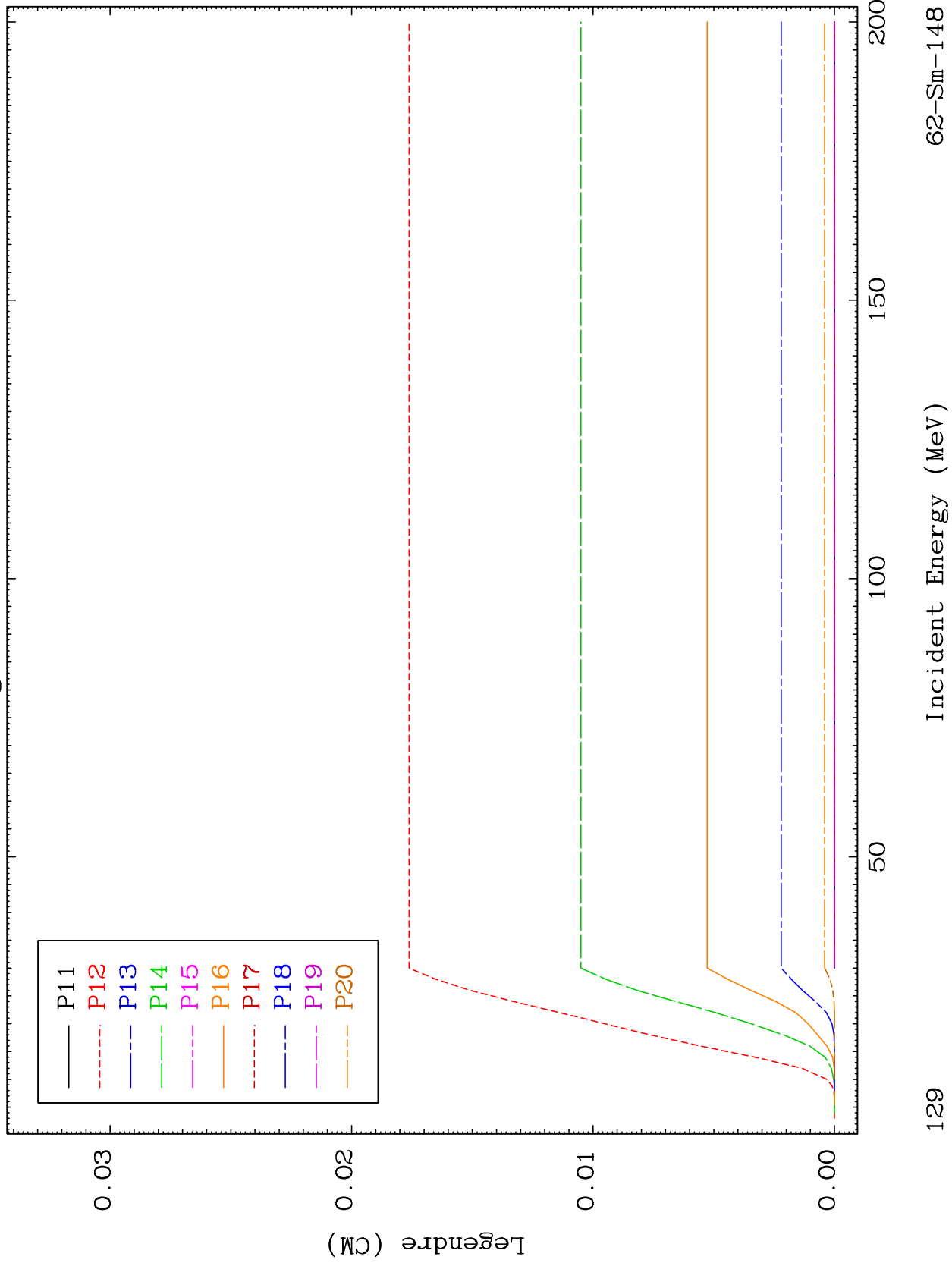
62-Sm-148



MAT 6237

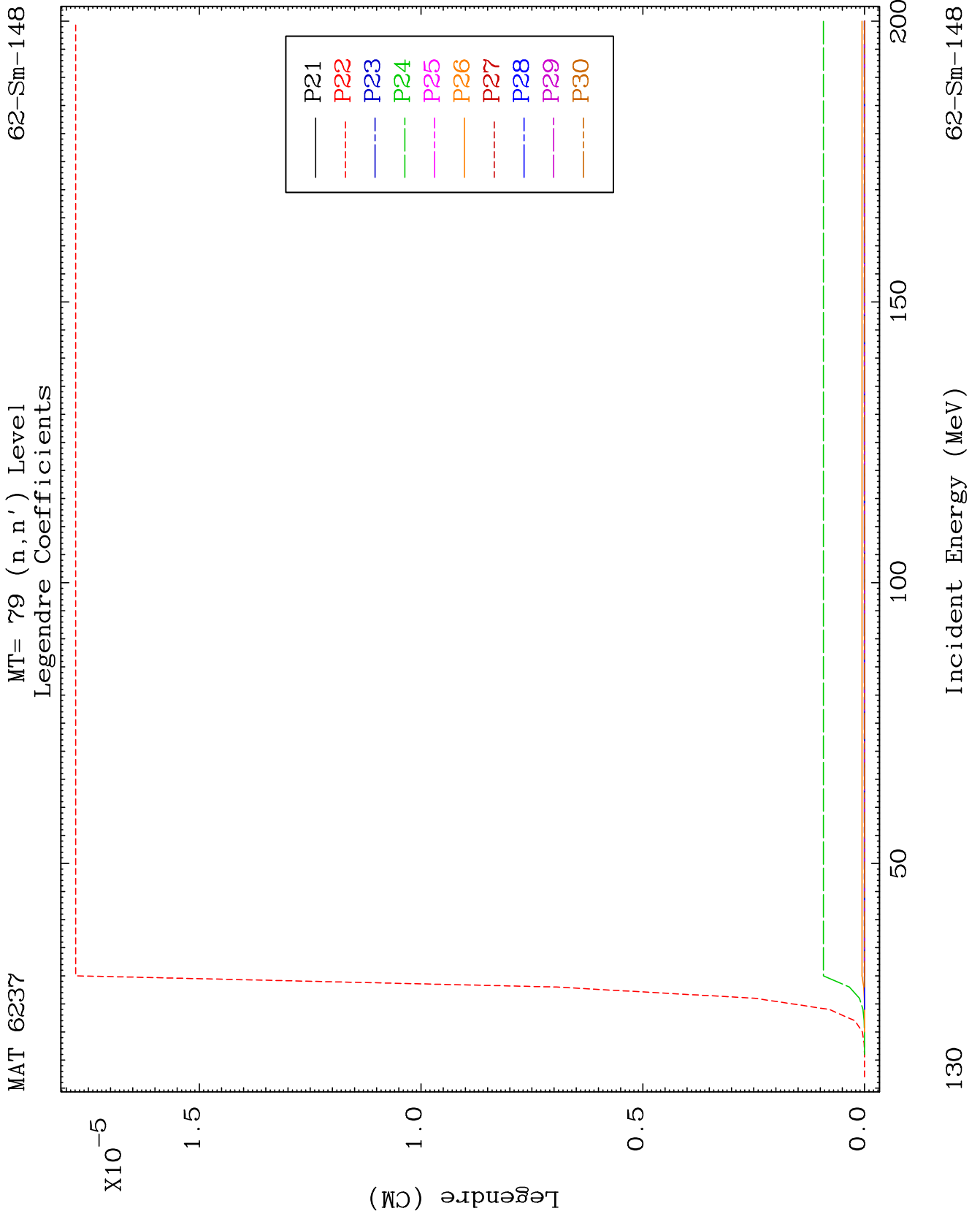
MT= 79 (n,n') Level
Legendre Coefficients

62-Sm-148



129

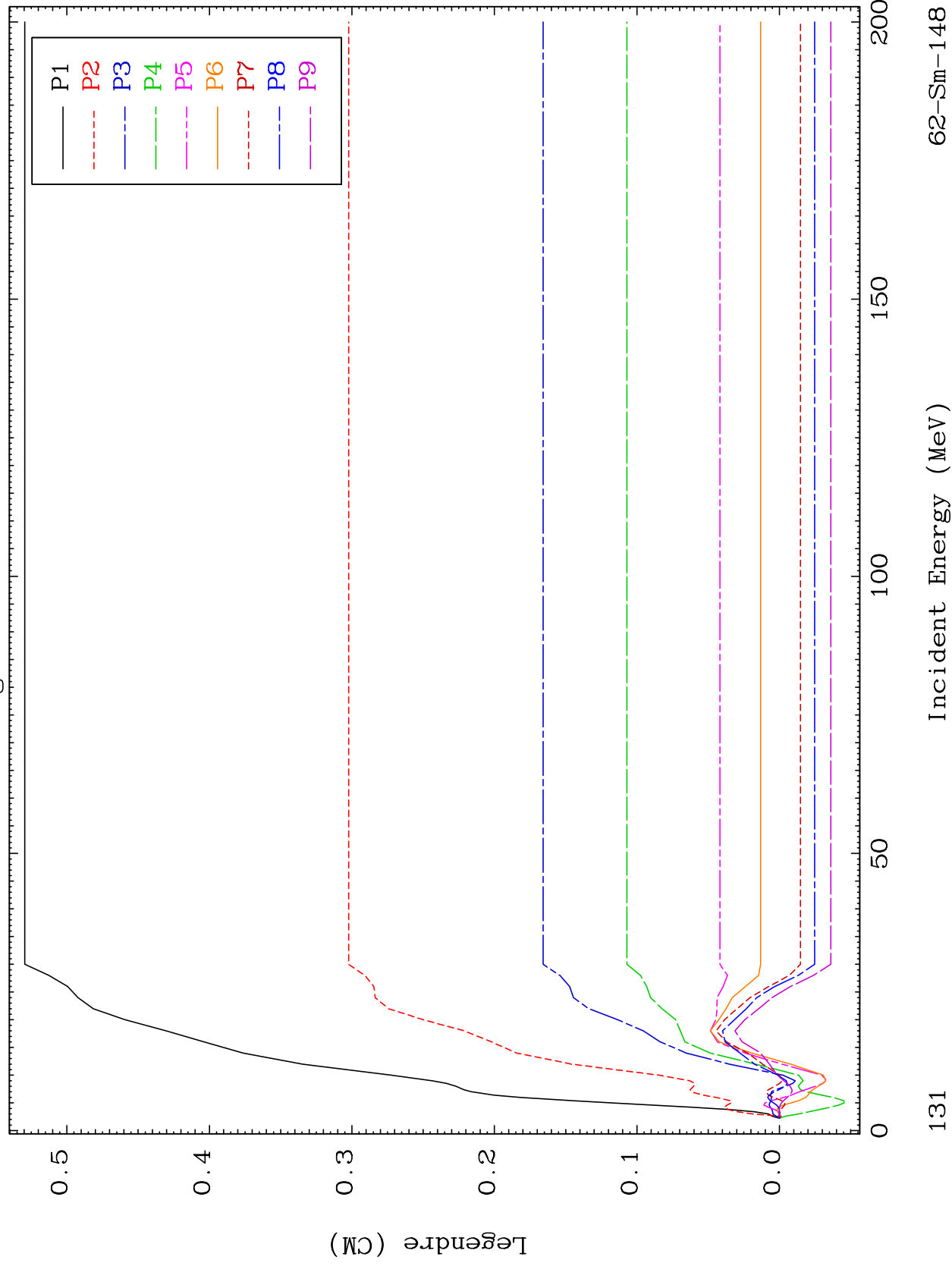
62-Sm-148



MAT 6237

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

62-Sm-148



131

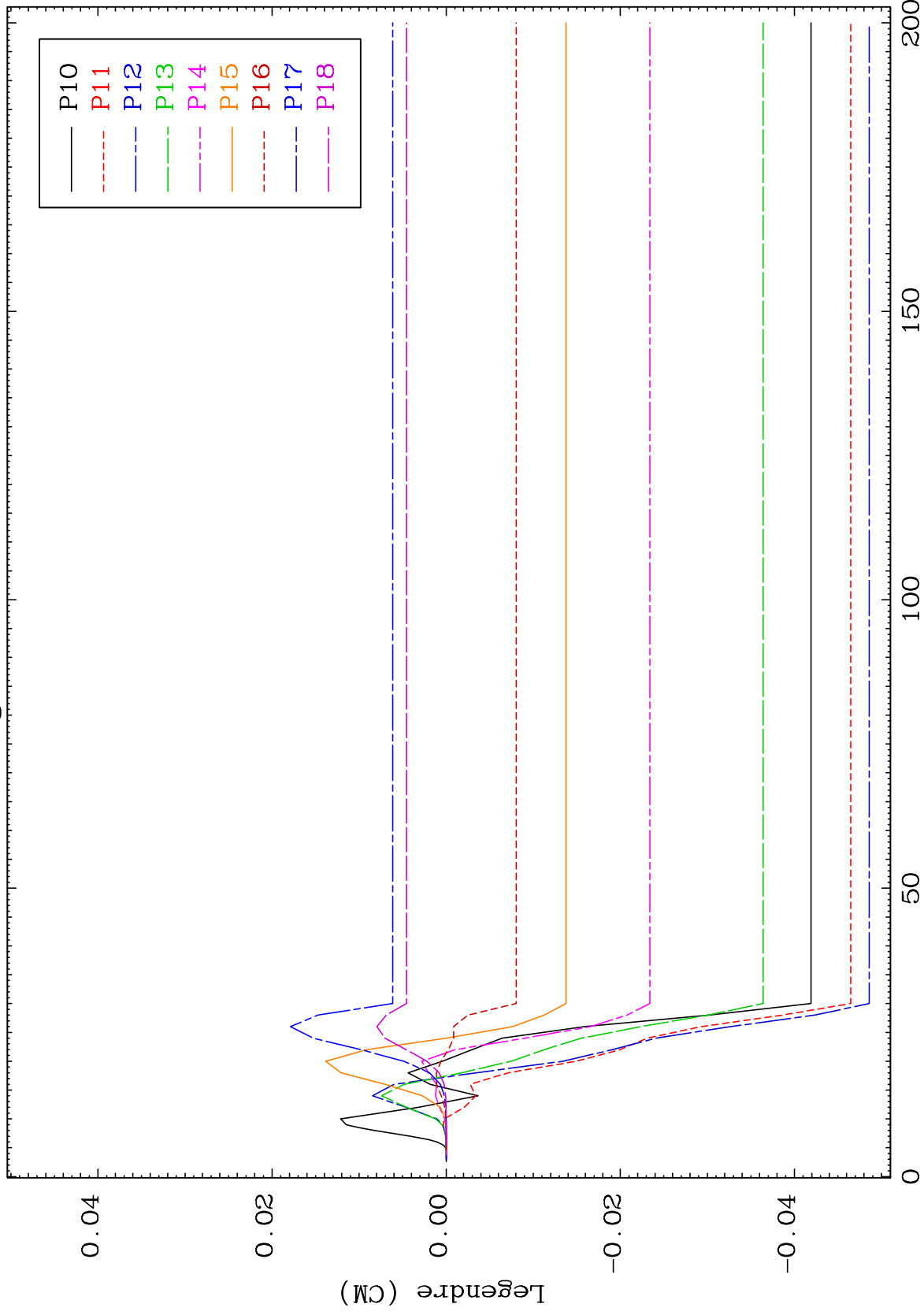
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

62-Sm-148



132

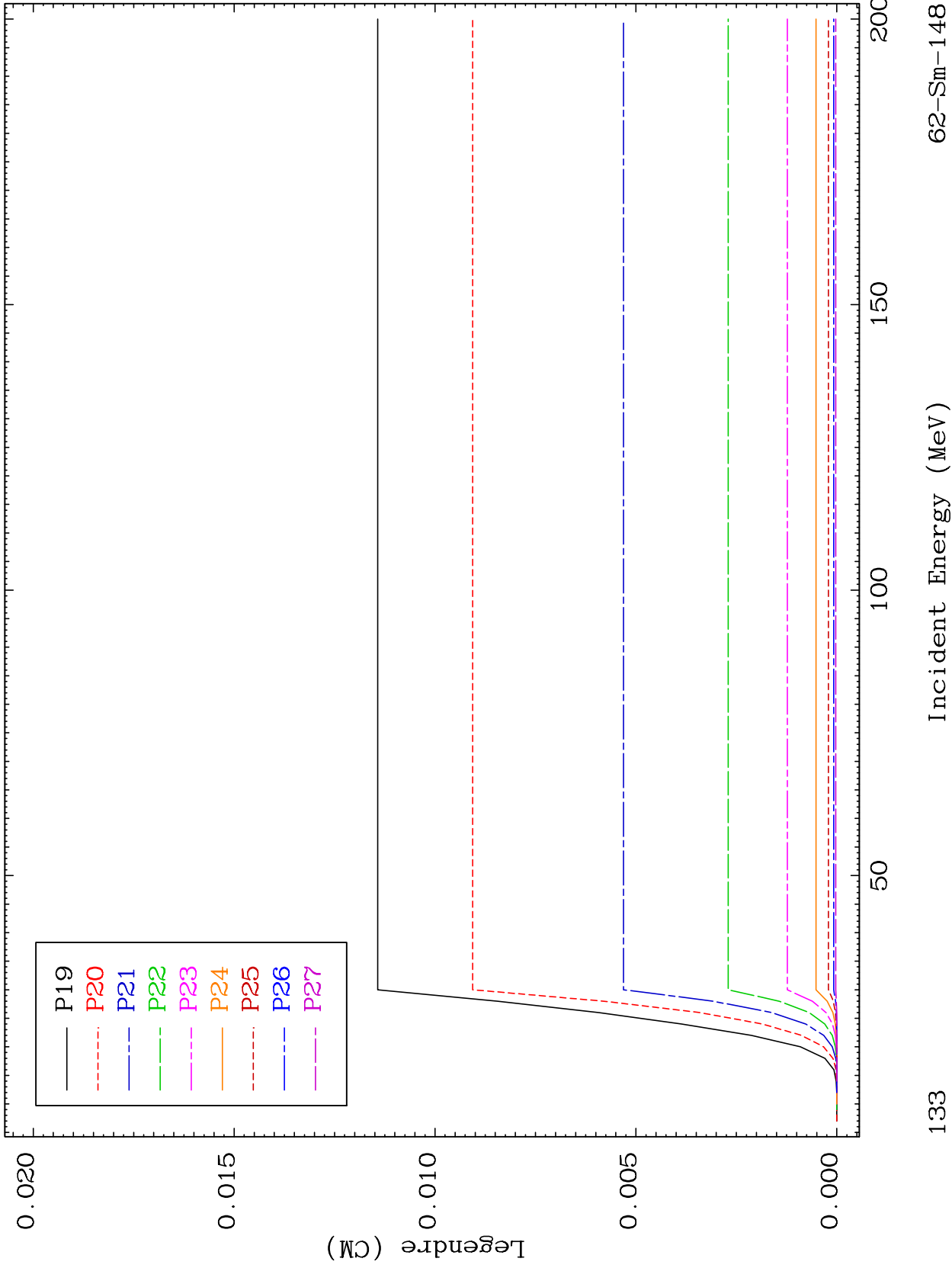
Incident Energy (MeV)

62-Sm-148

MAT 6237

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

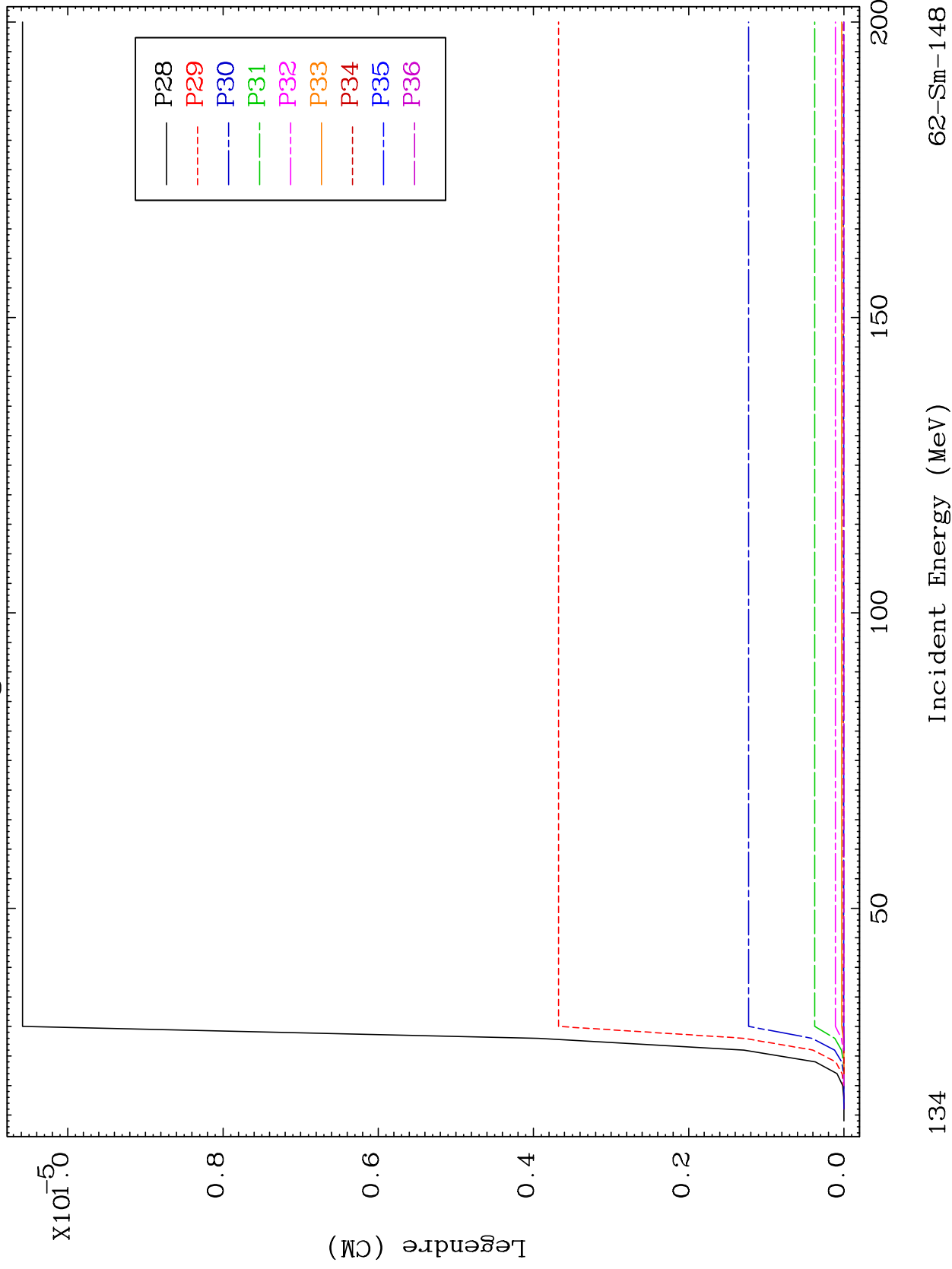
62-Sm-148



MAT 6237

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

62-Sm-148



134

Incident Energy (MeV)

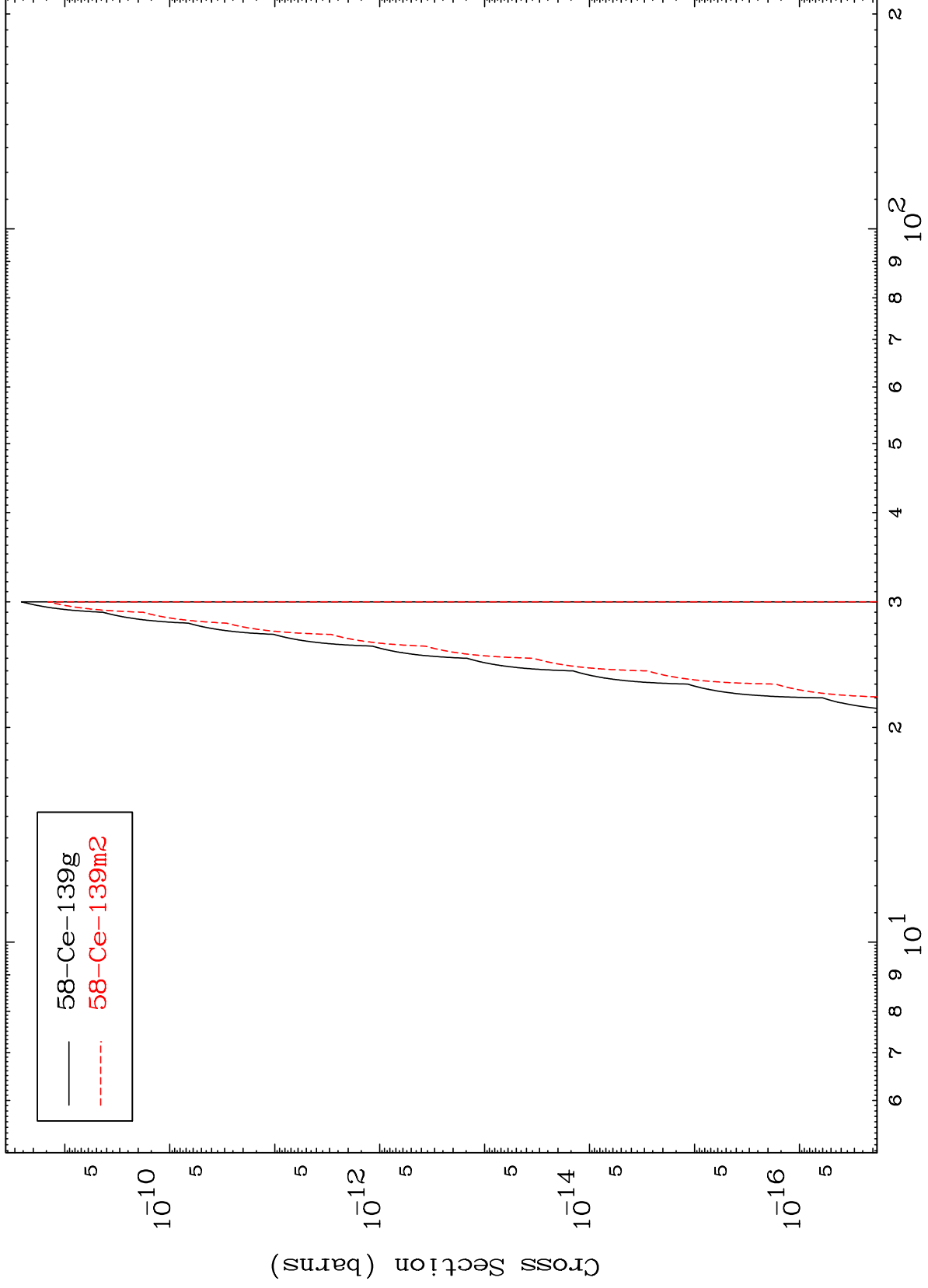
62-Sm-148

MAT 6237

$(n, 2n) 2\alpha$

62-Sm-148

Radionuclide Production Cross Section



58-Ce-139g
58-Ce-139m2

135

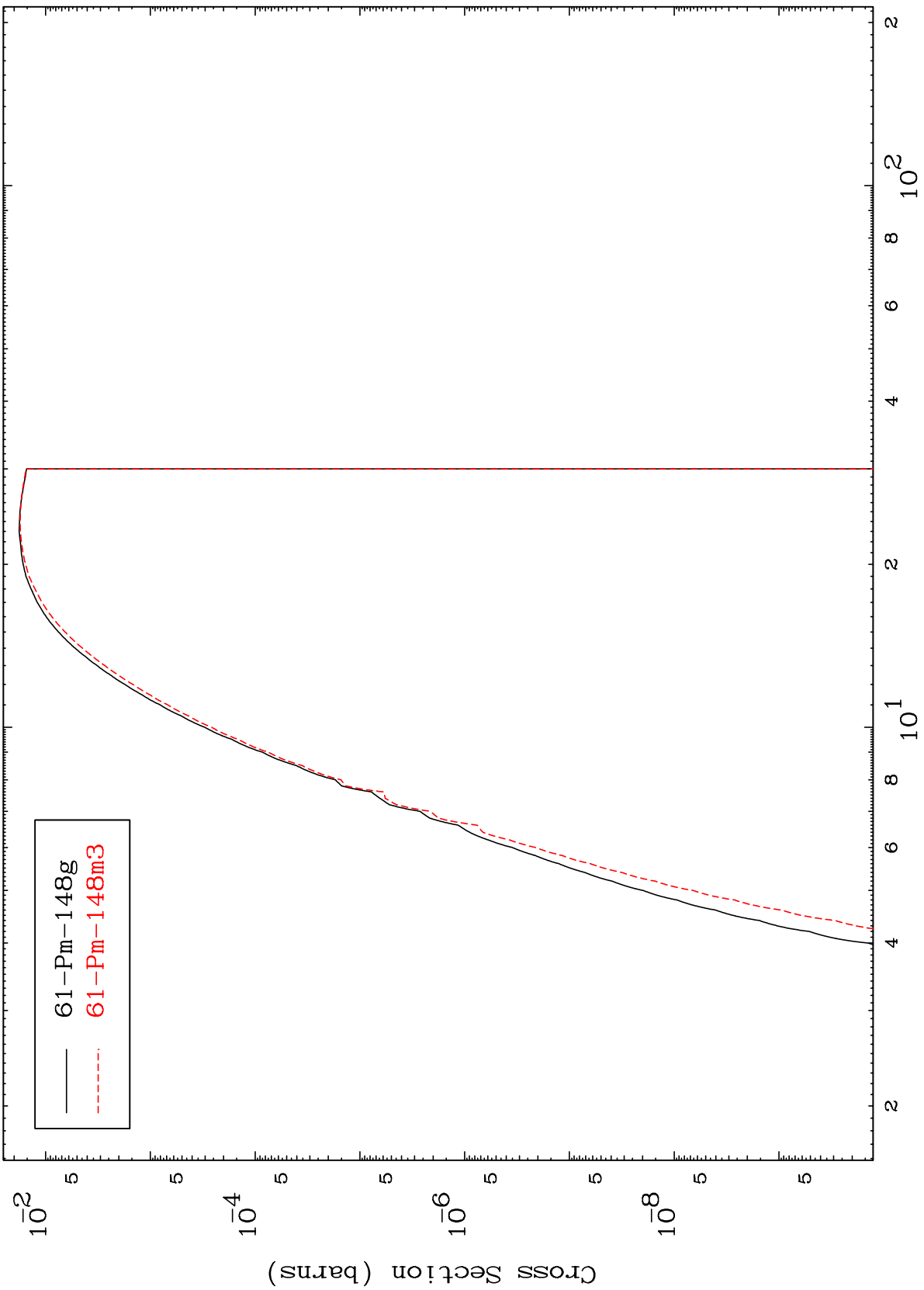
Incident Energy (MeV)

62-Sm-148

MAT 6237

62-Sm-148

(n,p)
Radionuclide Production Cross Section



— 61-Pm-148g
- - - 61-Pm-148m3

136

62-Sm-148

Incident Energy (MeV)

MAT 6237

(n,p) α

$^{62}\text{Sm-148}$

