

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

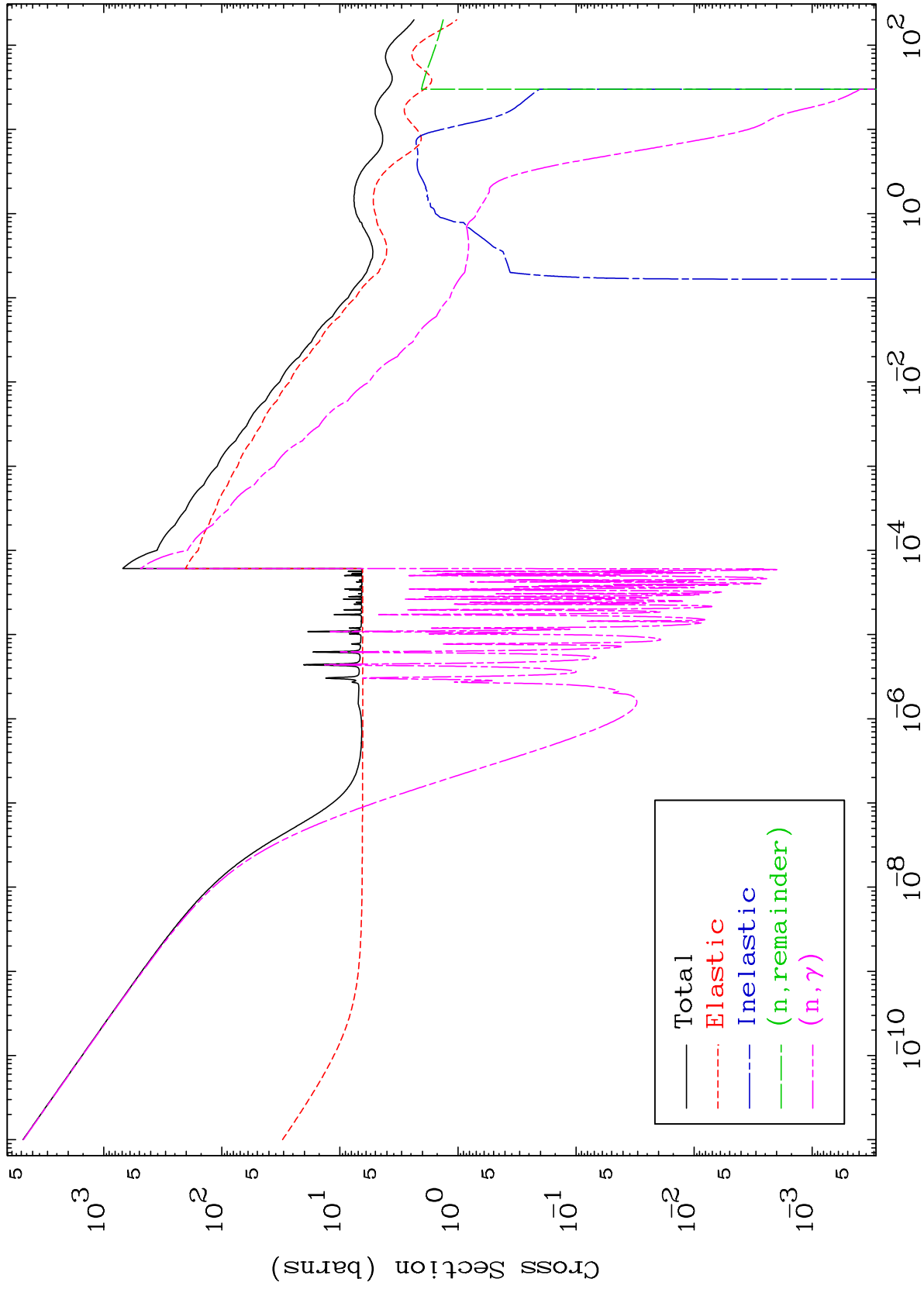
Press Mouse Button to Start

MAT 6416

Major

293 Kelvin Cross Sections

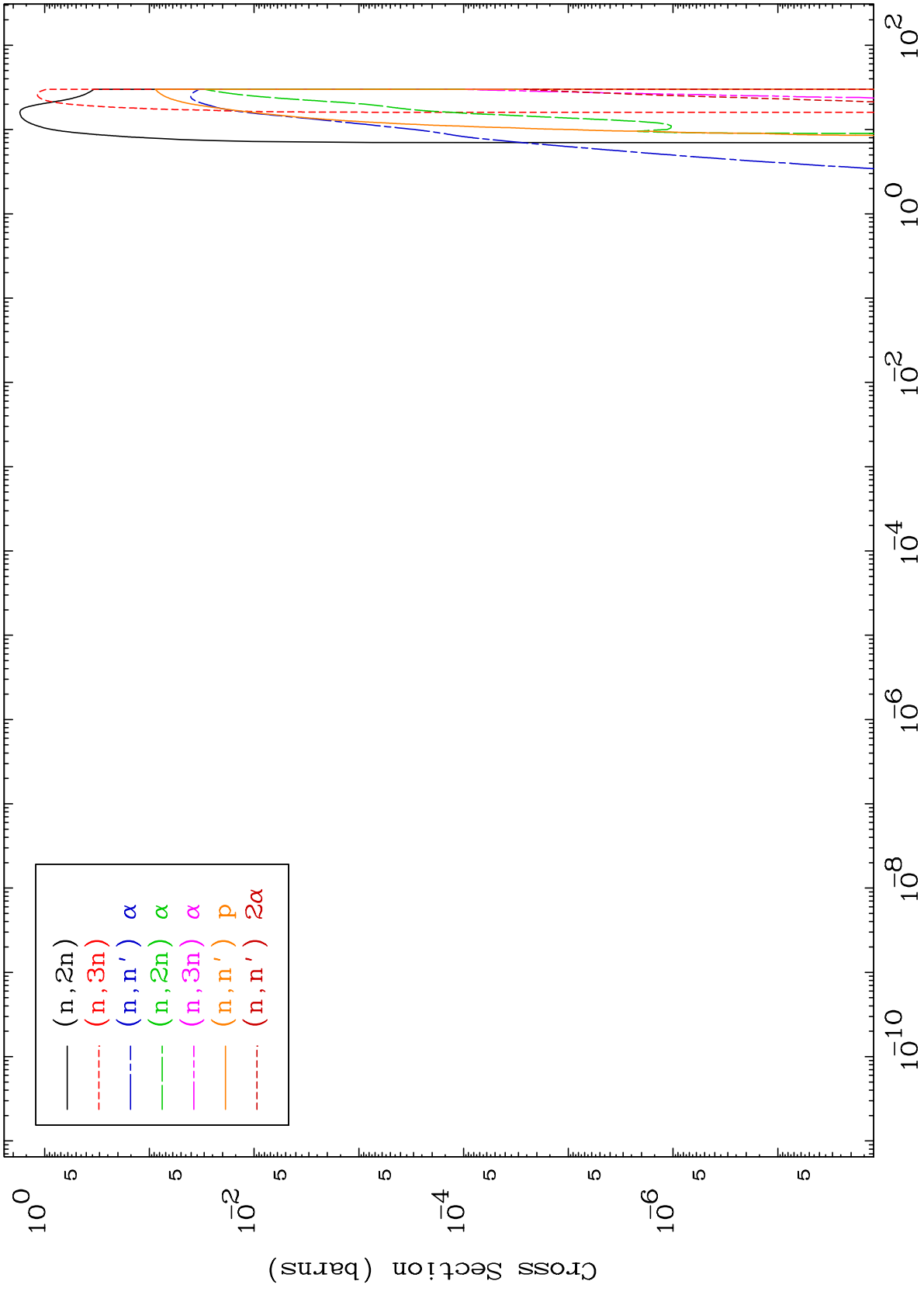
64-Gd-149



MAT 6416

Neutron Production
293 Kelvin Cross Sections

64-Gd-149

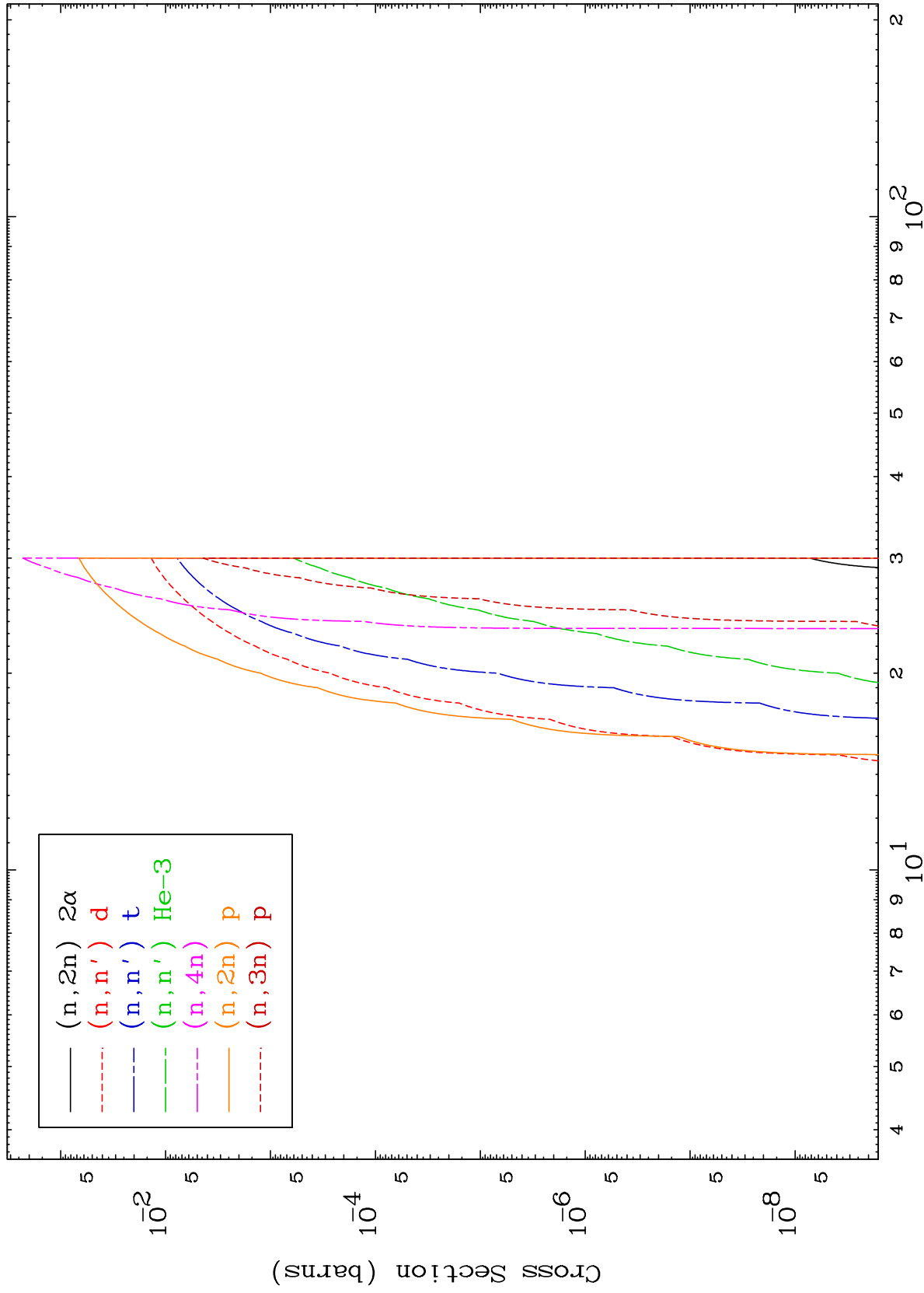


64-Gd-149

MAT 6416

Neutron Production 293 Kelvin Cross Sections

64-Gd-149



3

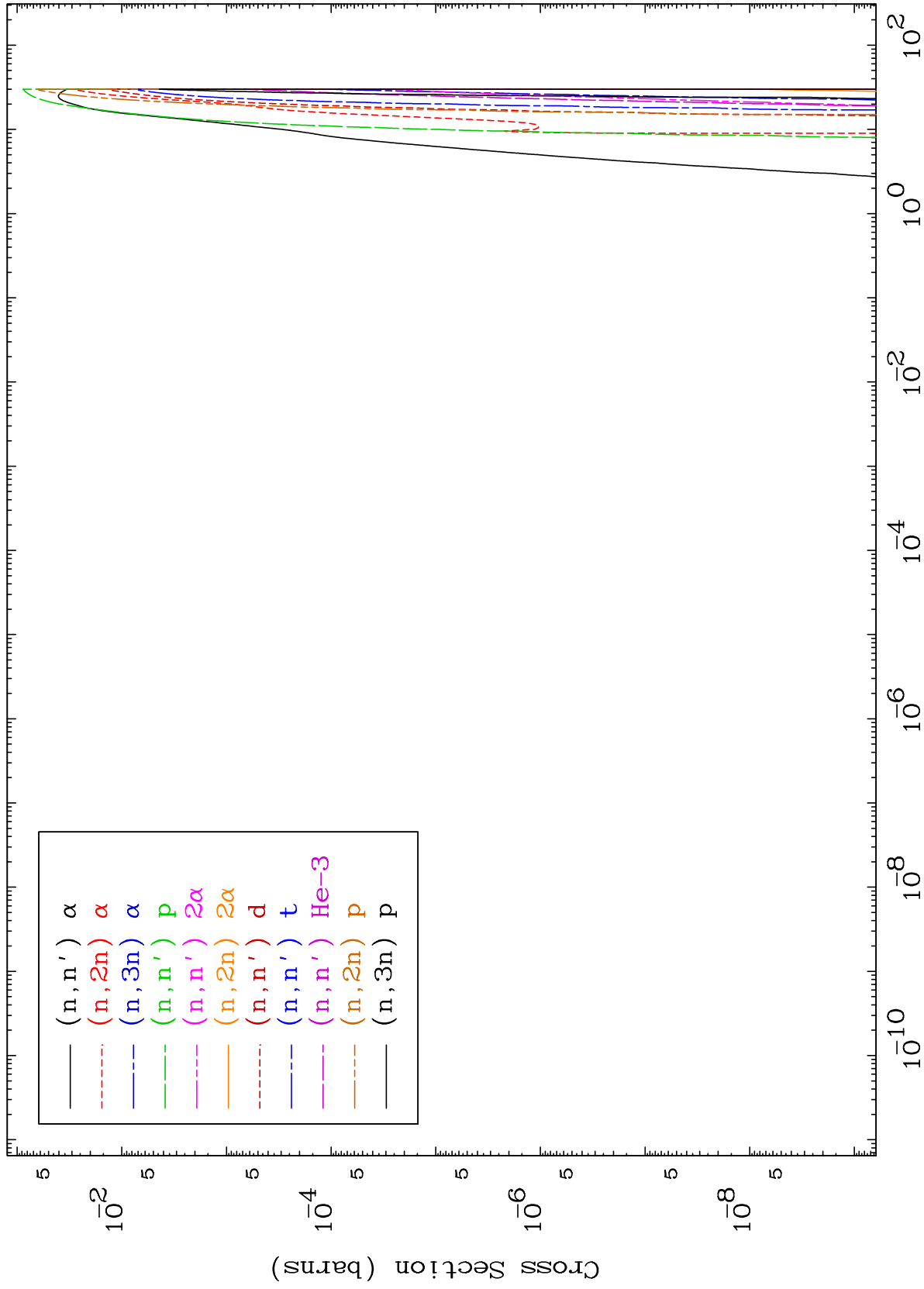
Incident Energy (MeV)

64-Gd-149

MAT 6416

293 Charged Particle
Kelvin Cross Sections

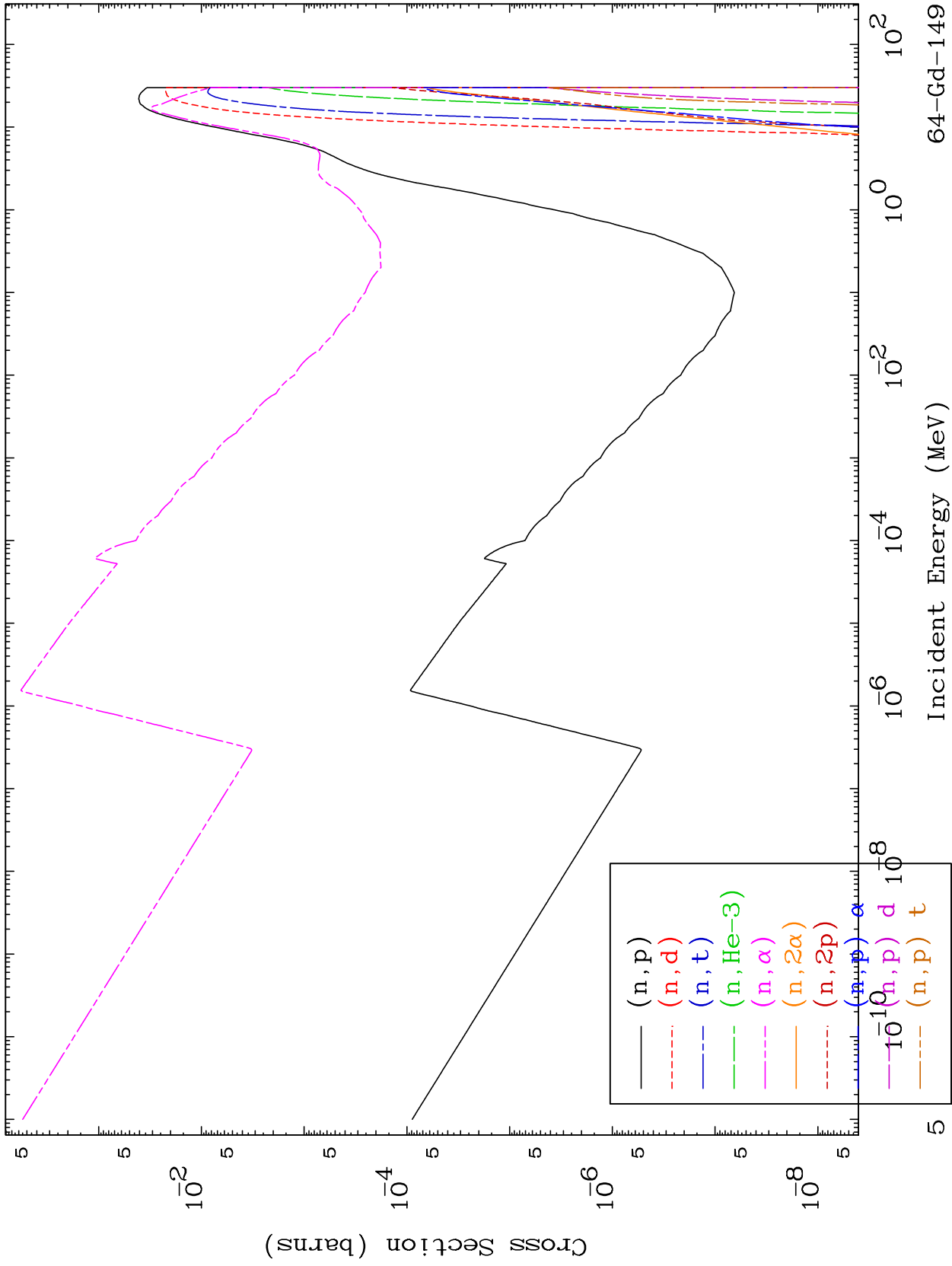
64-Gd-149



MAT 6416

Charged Particle
293 Kelvin Cross Sections

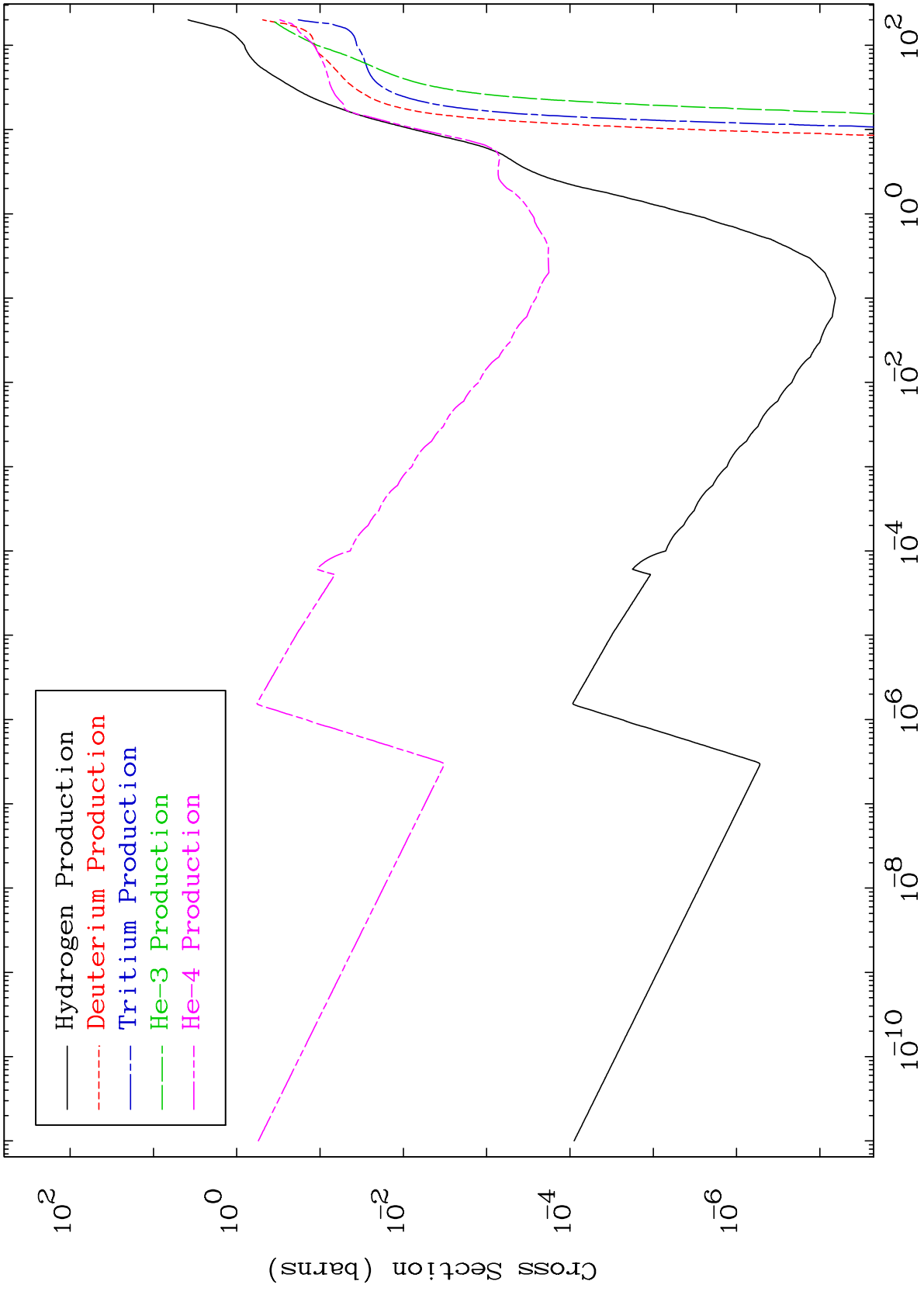
64-Gd-149



MAT 6416

Particle Production
293 Kelvin Cross Sections

64-Gd-149



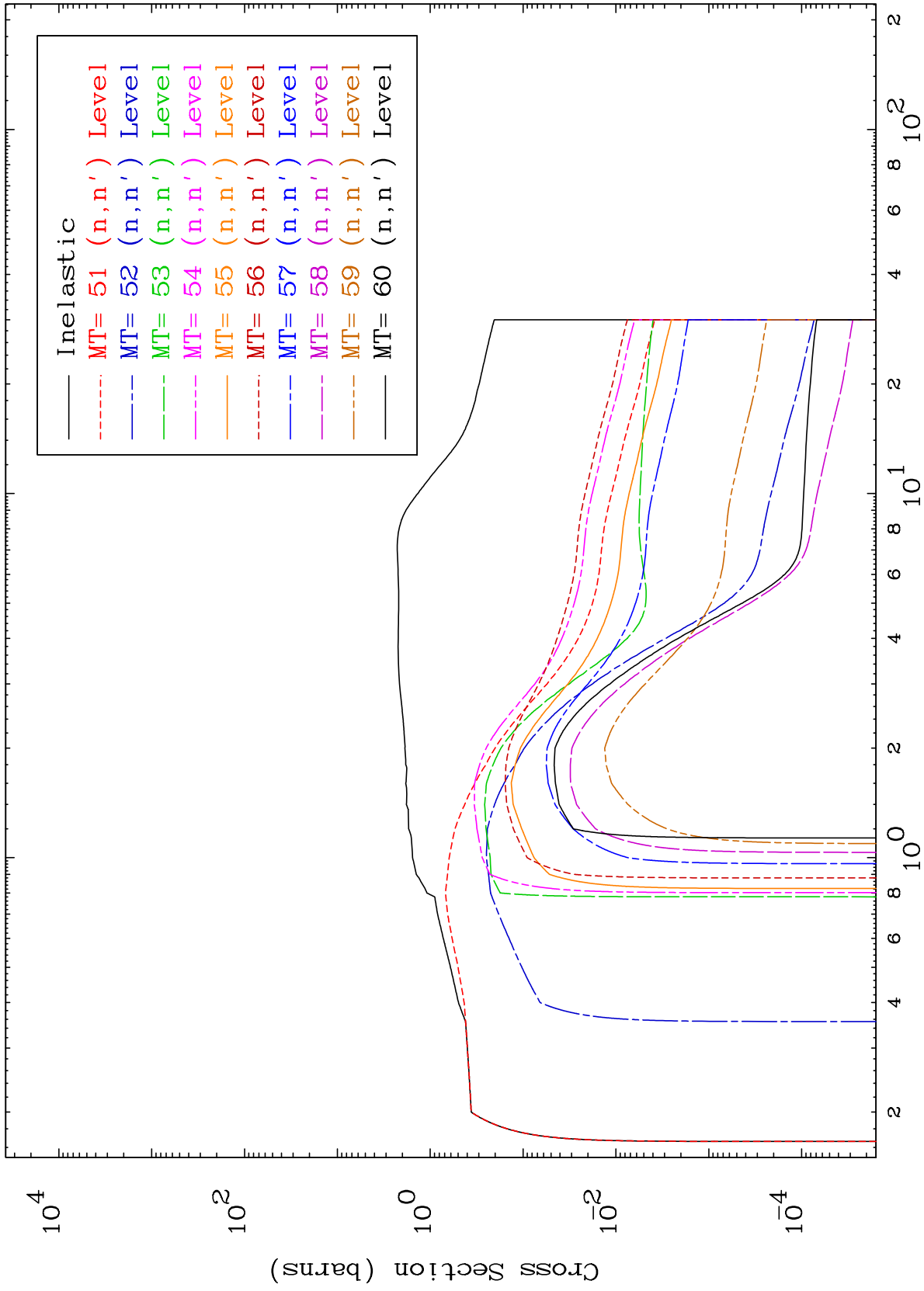
64-Gd-149

MAT 6416

(n,n') Level

64-Gd-149

293 Kelvin Cross Sections



7

Incident Energy (MeV)

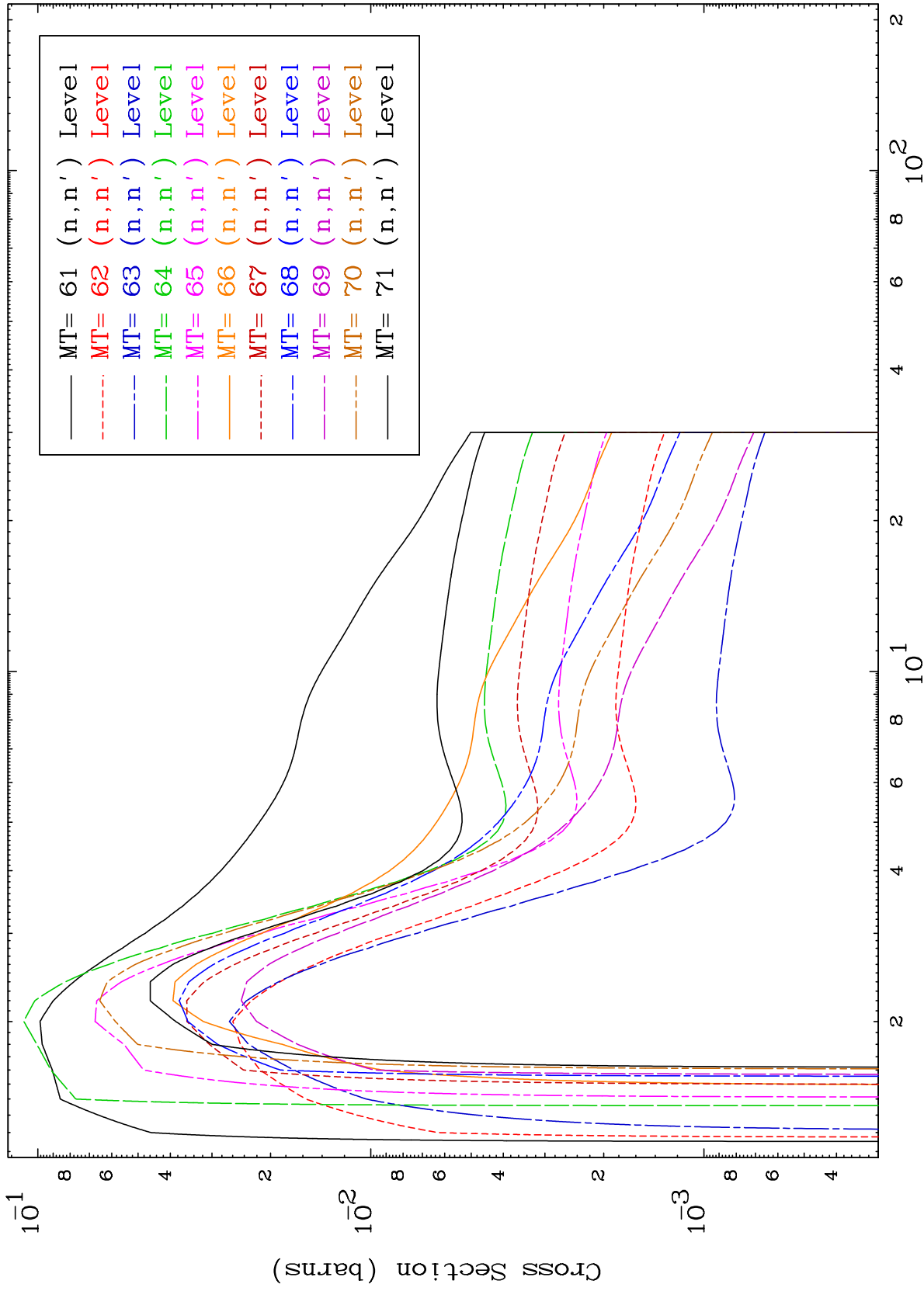
64-Gd-149

MAT 6416

(n,n') Level

64-Gd-149

293 Kelvin Cross Sections



8

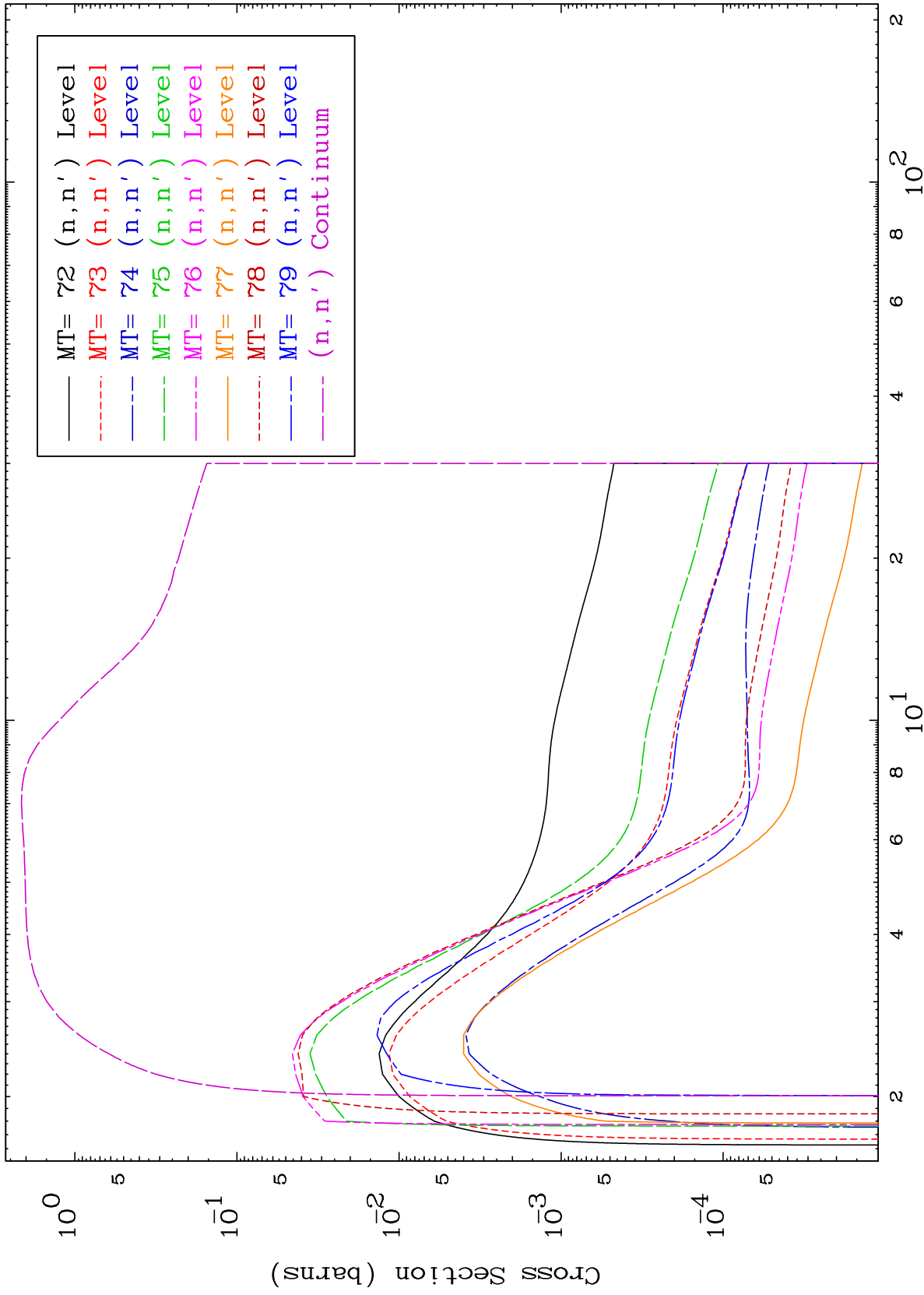
Incident Energy (MeV)

64-Gd-149

MAT 6416

(n,n') Level
293 Kelvin Cross Sections

64-Gd-149



9

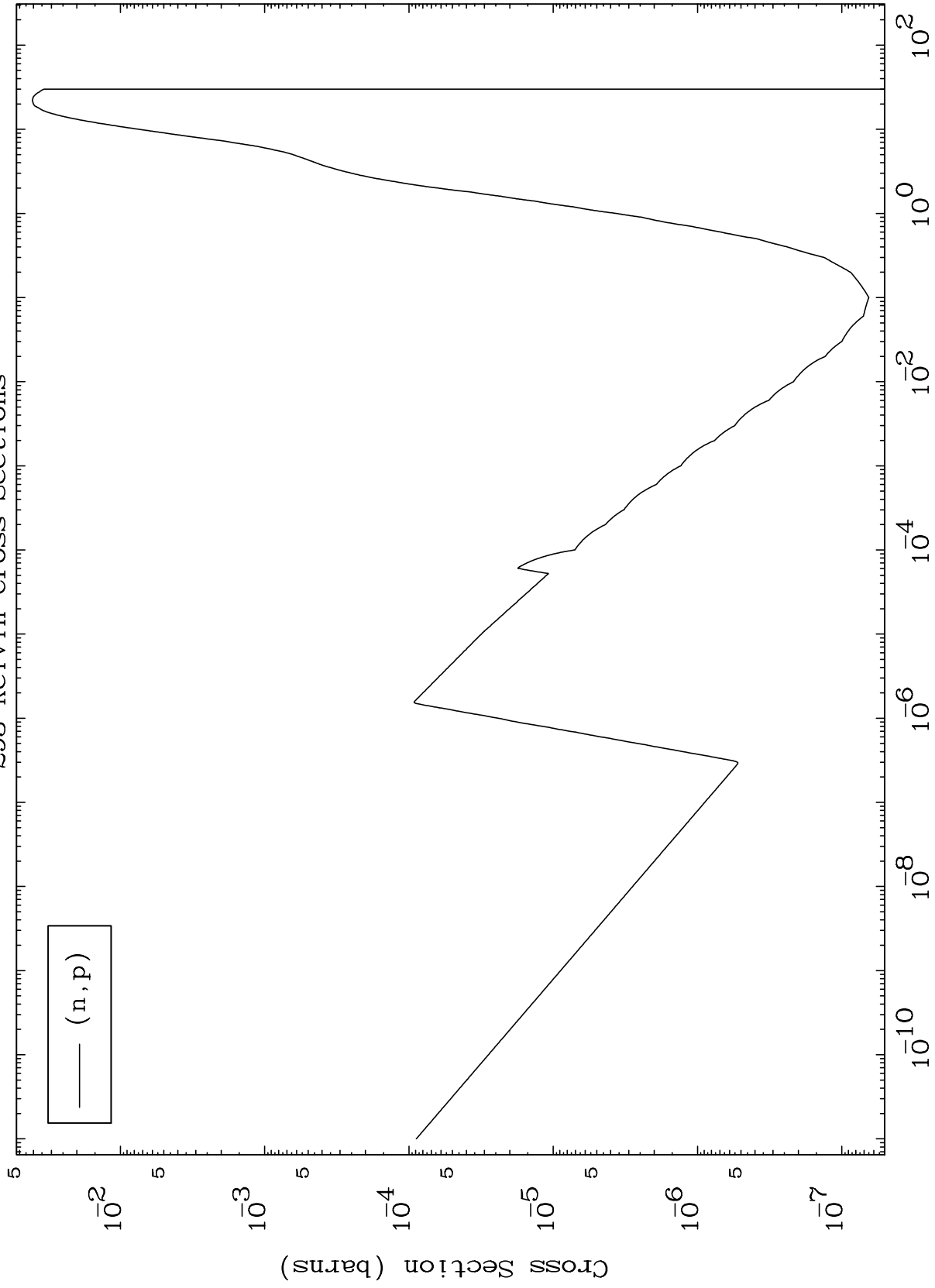
Incident Energy (MeV)

64-Gd-149

MAT 6416

(n,p) Levels
293 Kelvin Cross Sections

64-Gd-149



10

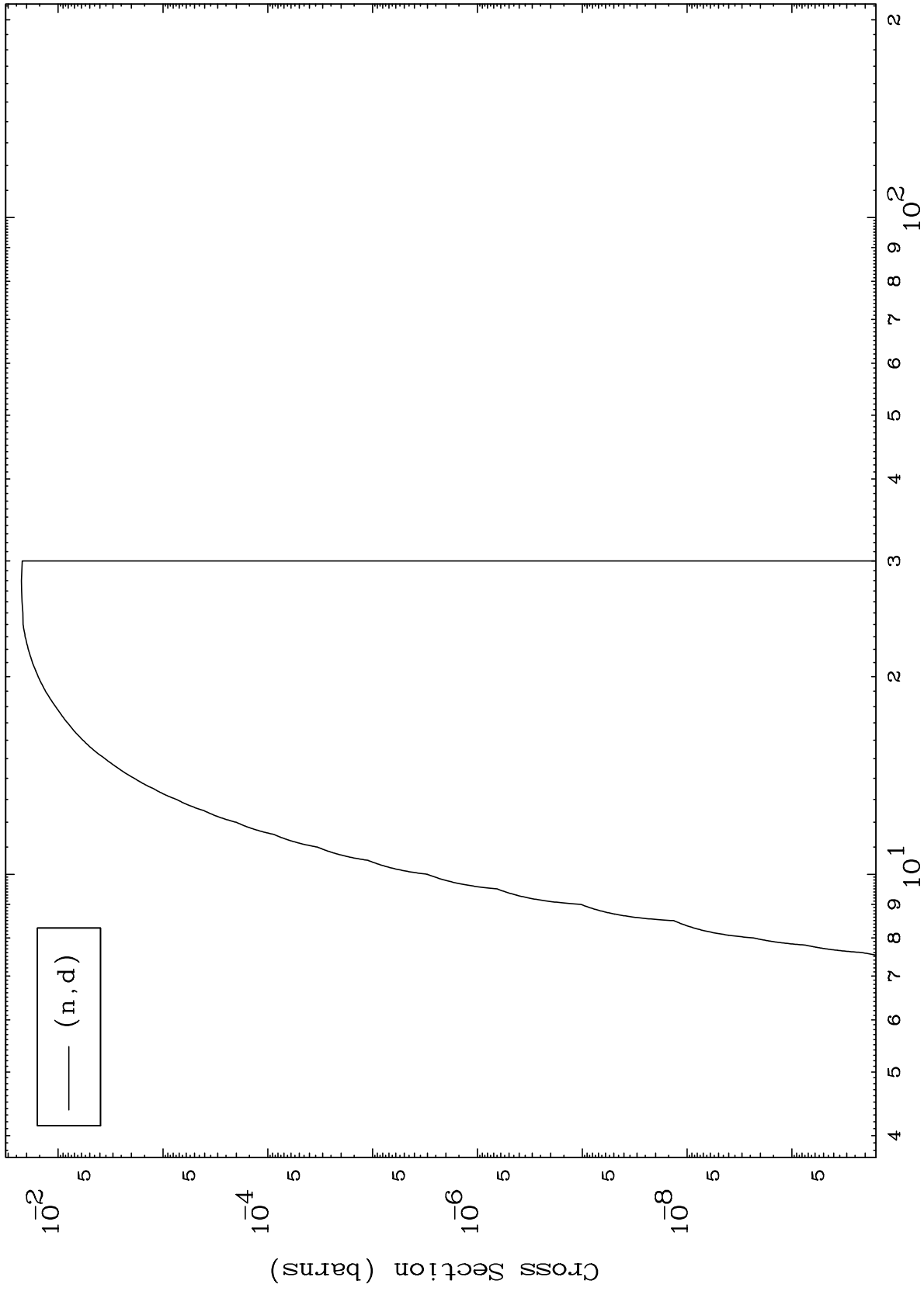
Incident Energy (MeV)

64-Gd-149

MAT 6416

(n,d) Levels
293 Kelvin Cross Sections

64-Gd-149



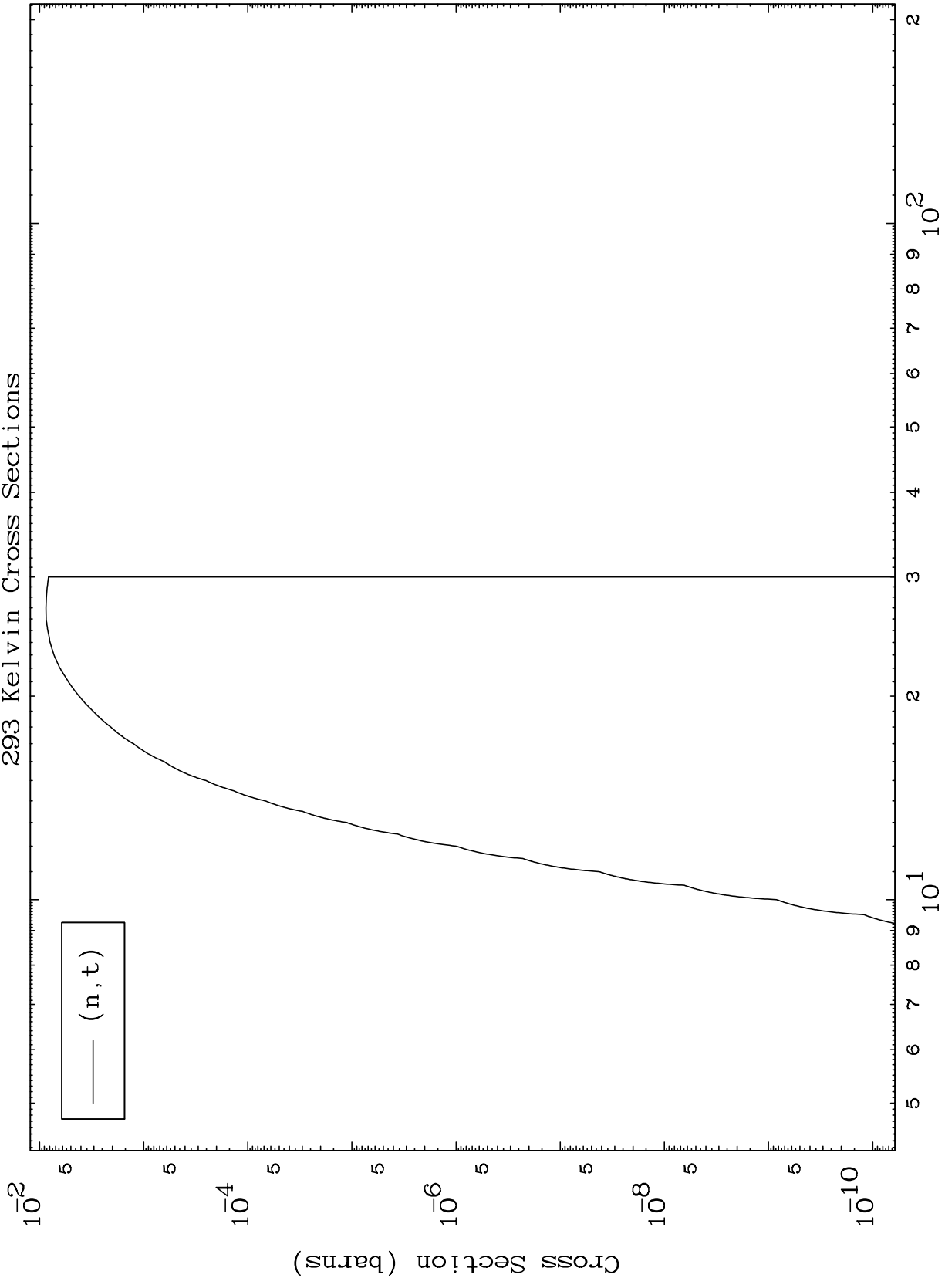
11

64-Gd-149

MAT 6416

(n,t) Levels
293 Kelvin Cross Sections

64-Gd-149



12

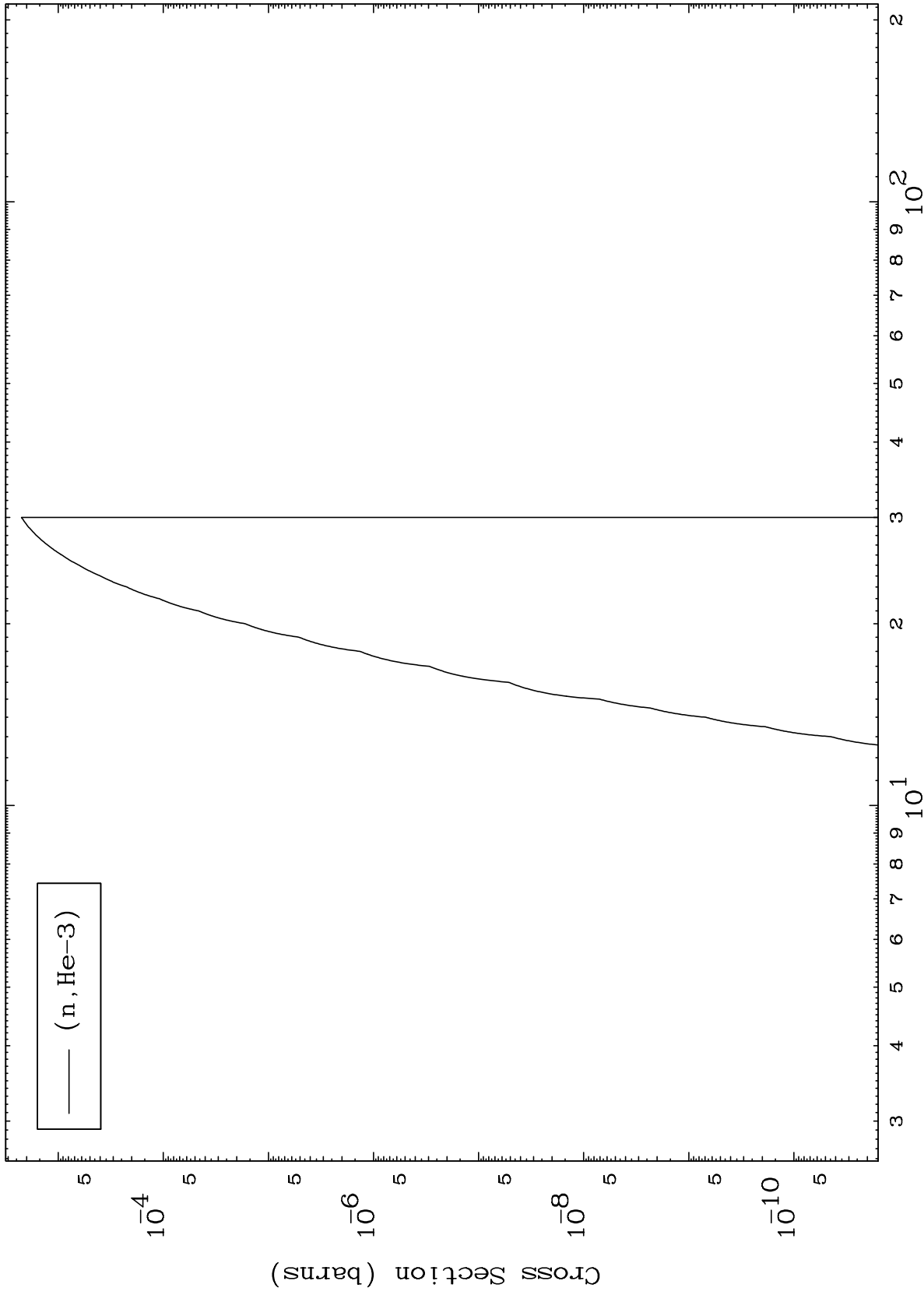
Incident Energy (MeV)

64-Gd-149

MAT 6416

(n,He3) Levels
293 Kelvin Cross Sections

64-Gd-149



13

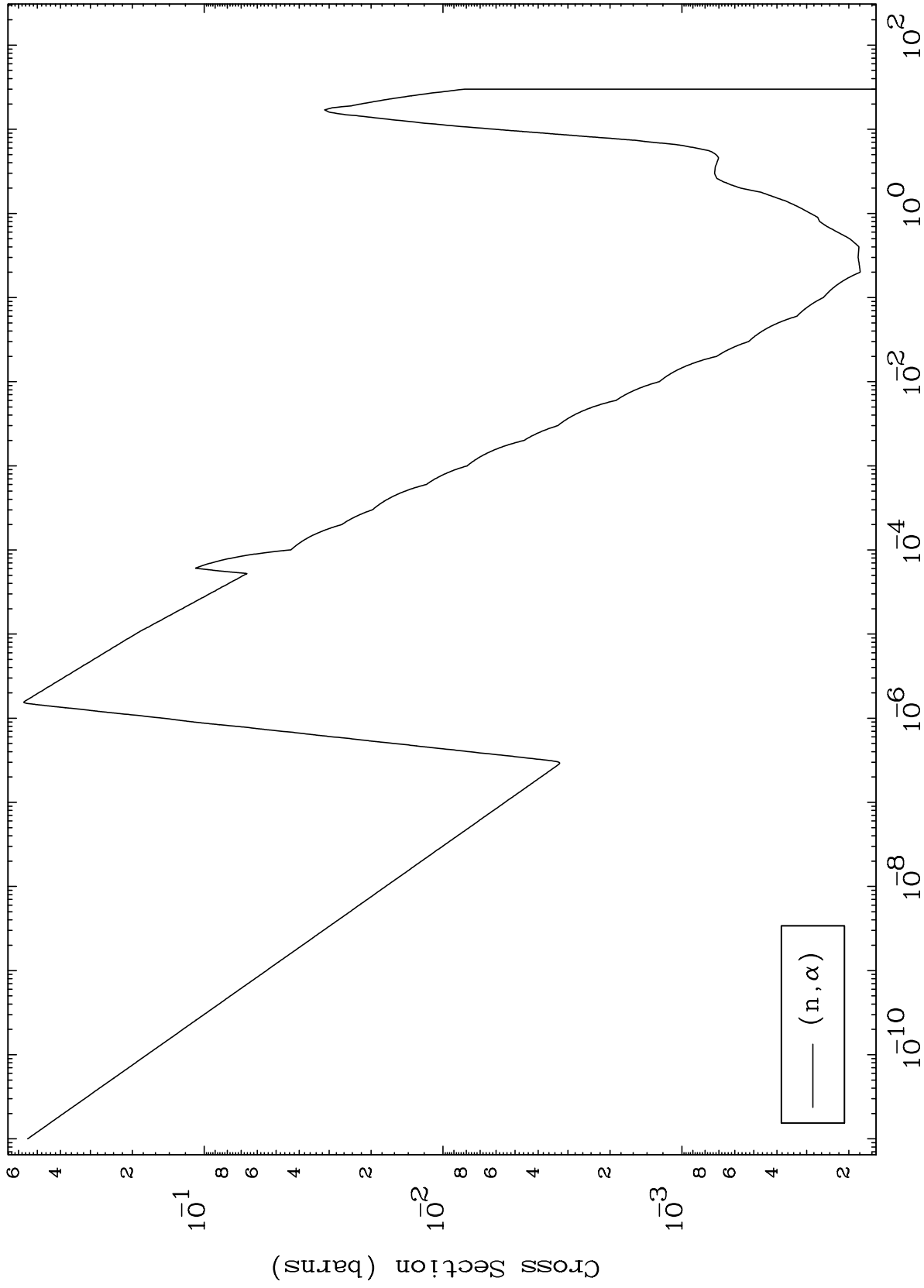
Incident Energy (MeV)

64-Gd-149

MAT 6416

(n, α) Levels
293 Kelvin Cross Sections

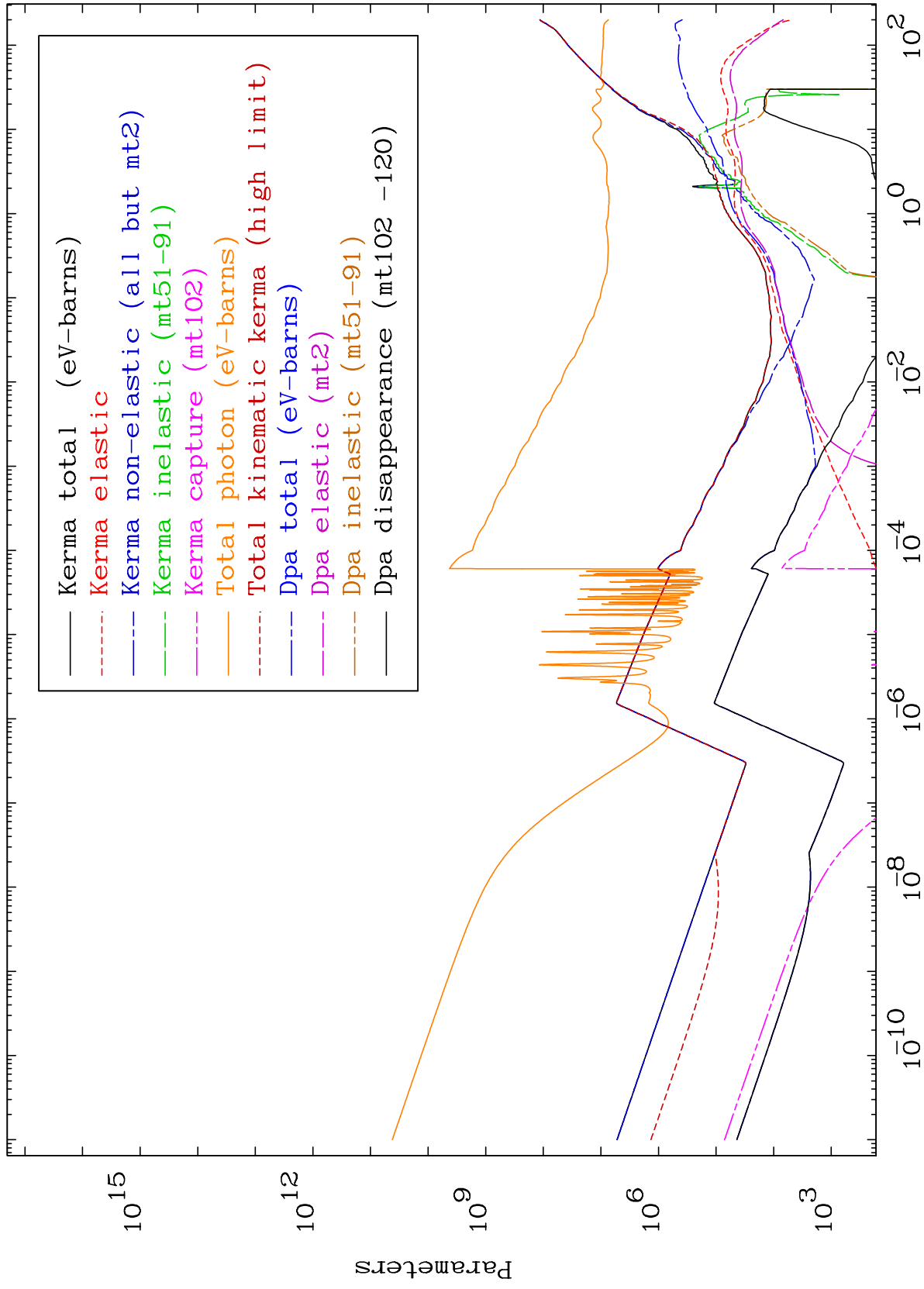
64-Gd-149

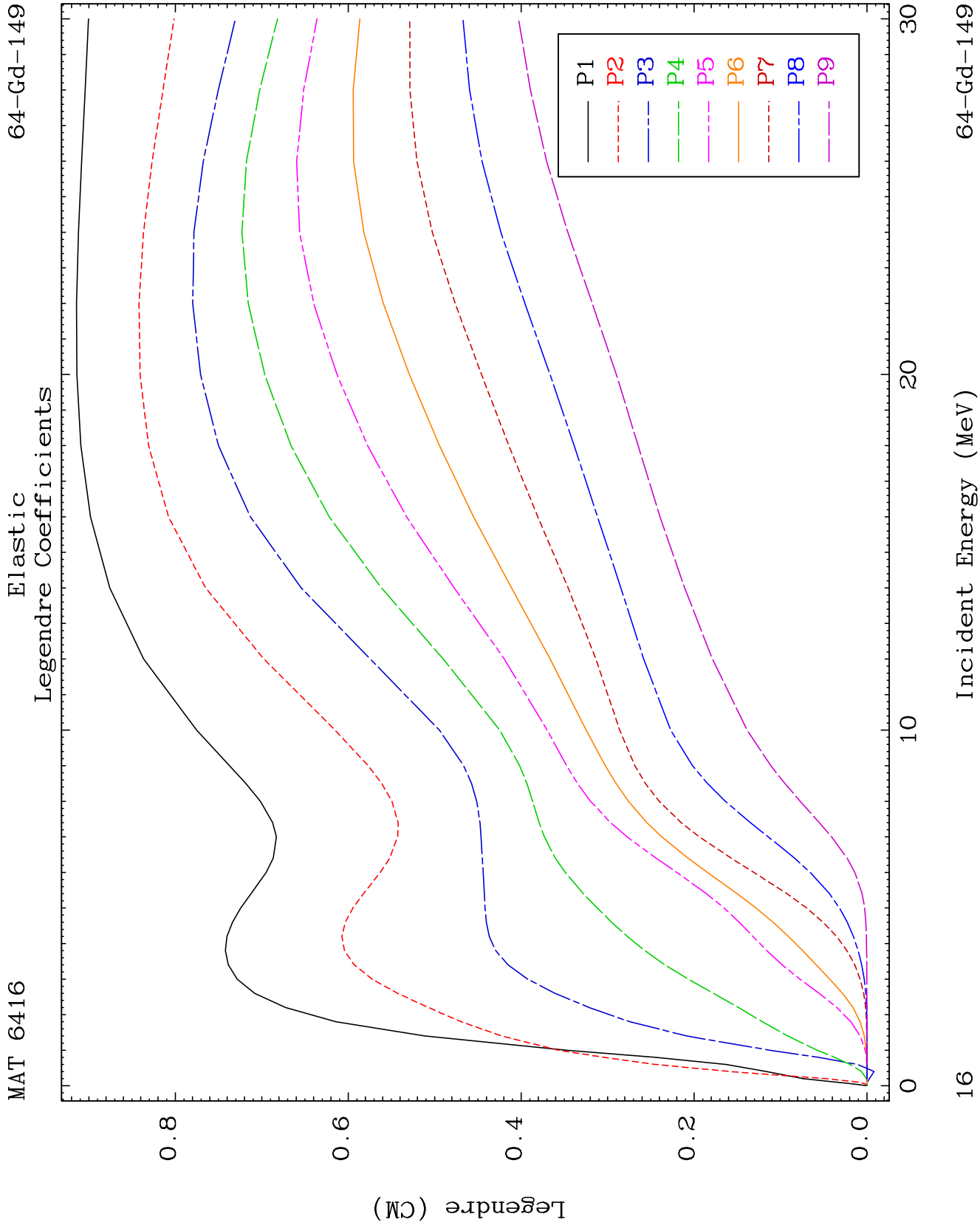


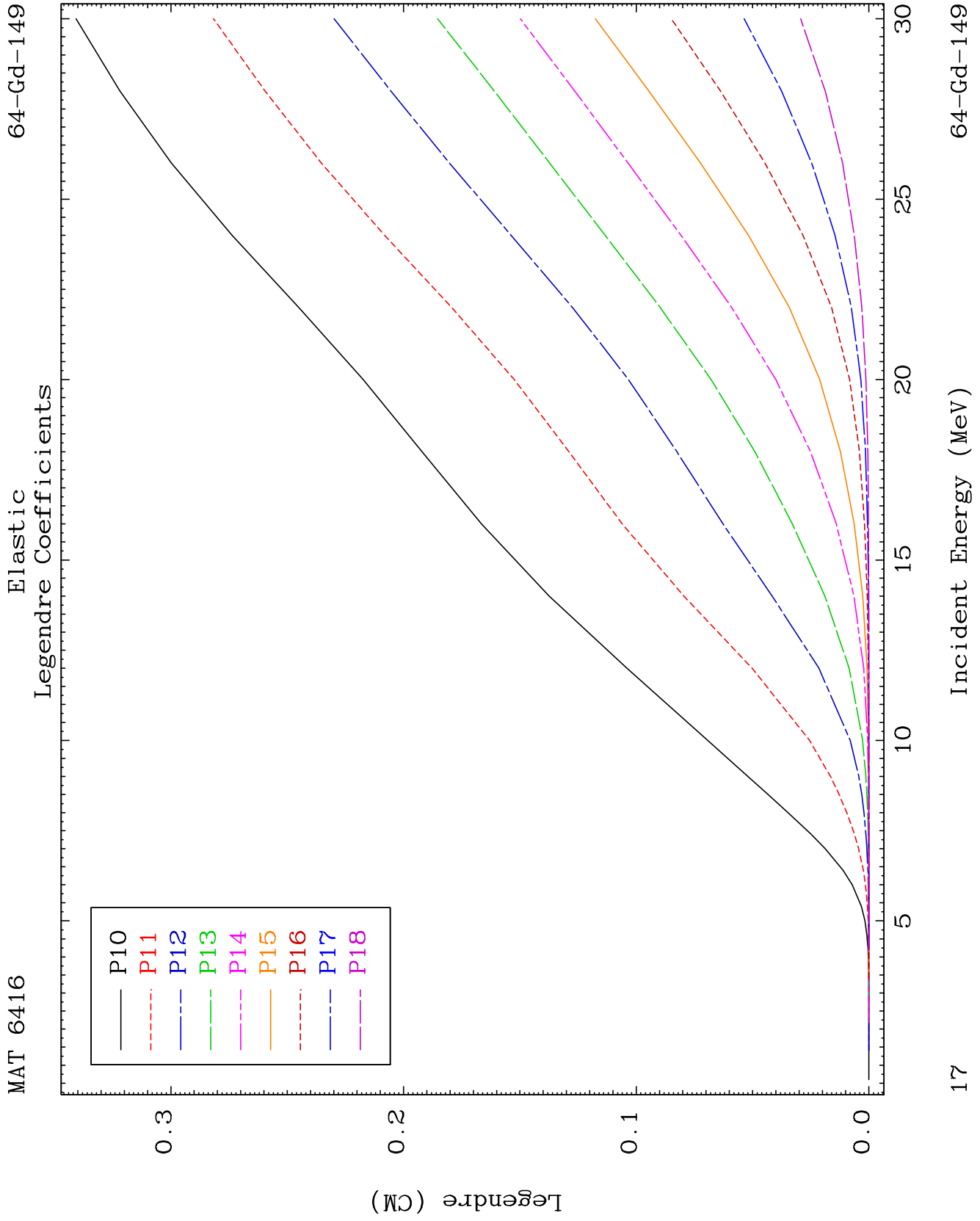
14

Incident Energy (MeV)

64-Gd-149



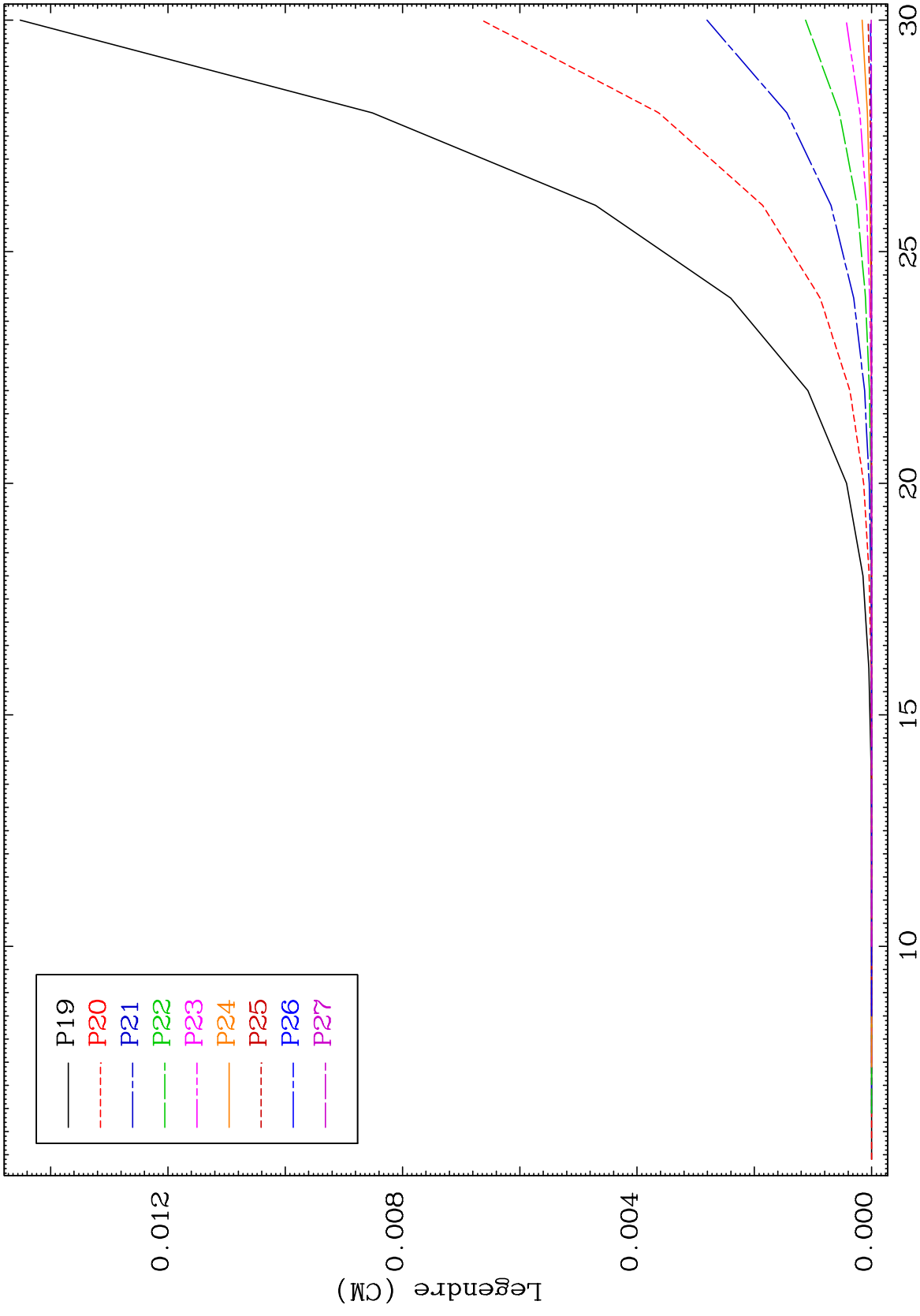




MAT 6416

Elastic Legendre Coefficients

64-Gd-149



18

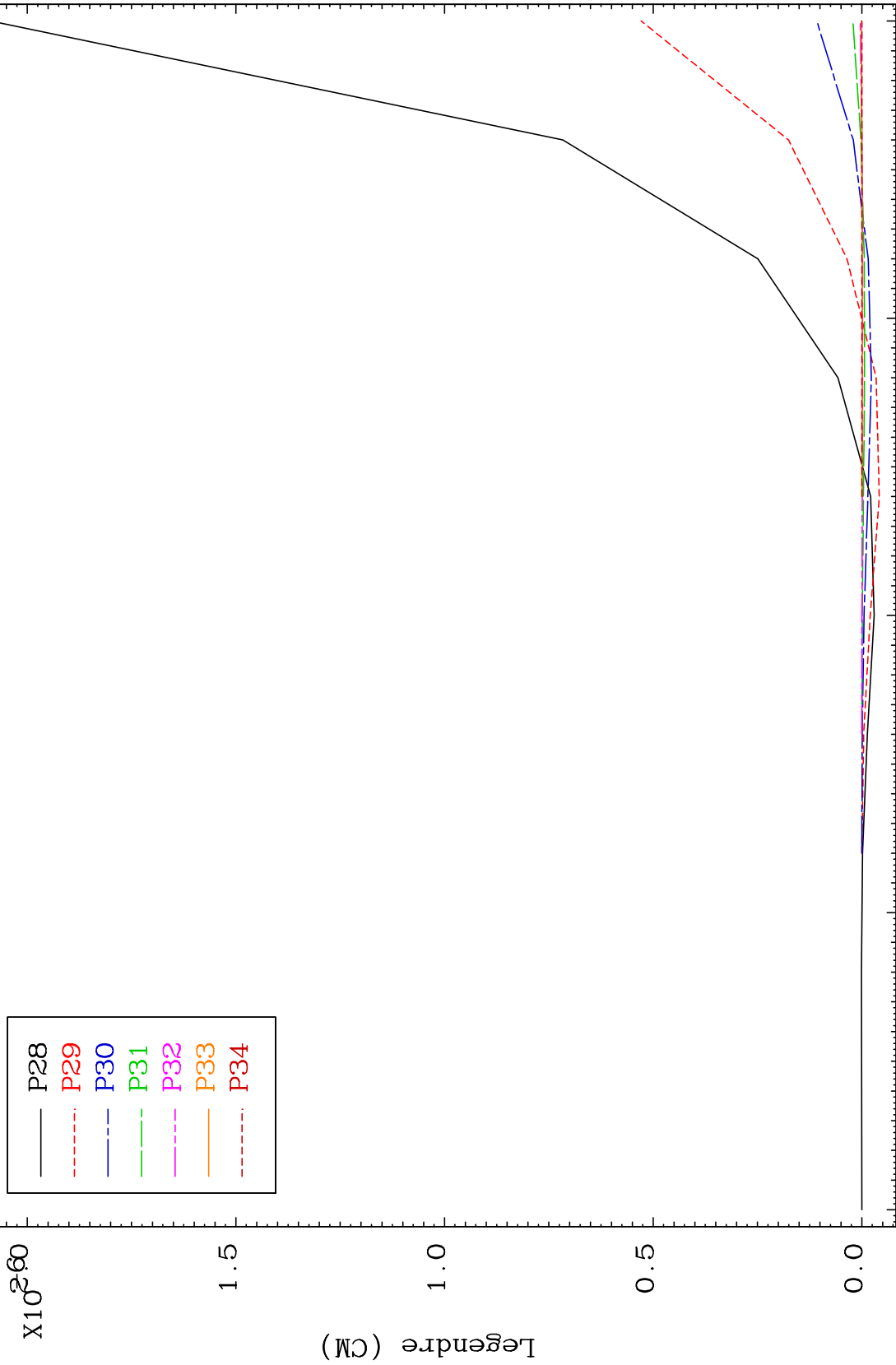
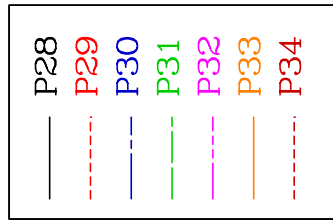
Incident Energy (MeV)

64-Gd-149

MAT 6416

Elastic Legendre Coefficients

64-Gd-149

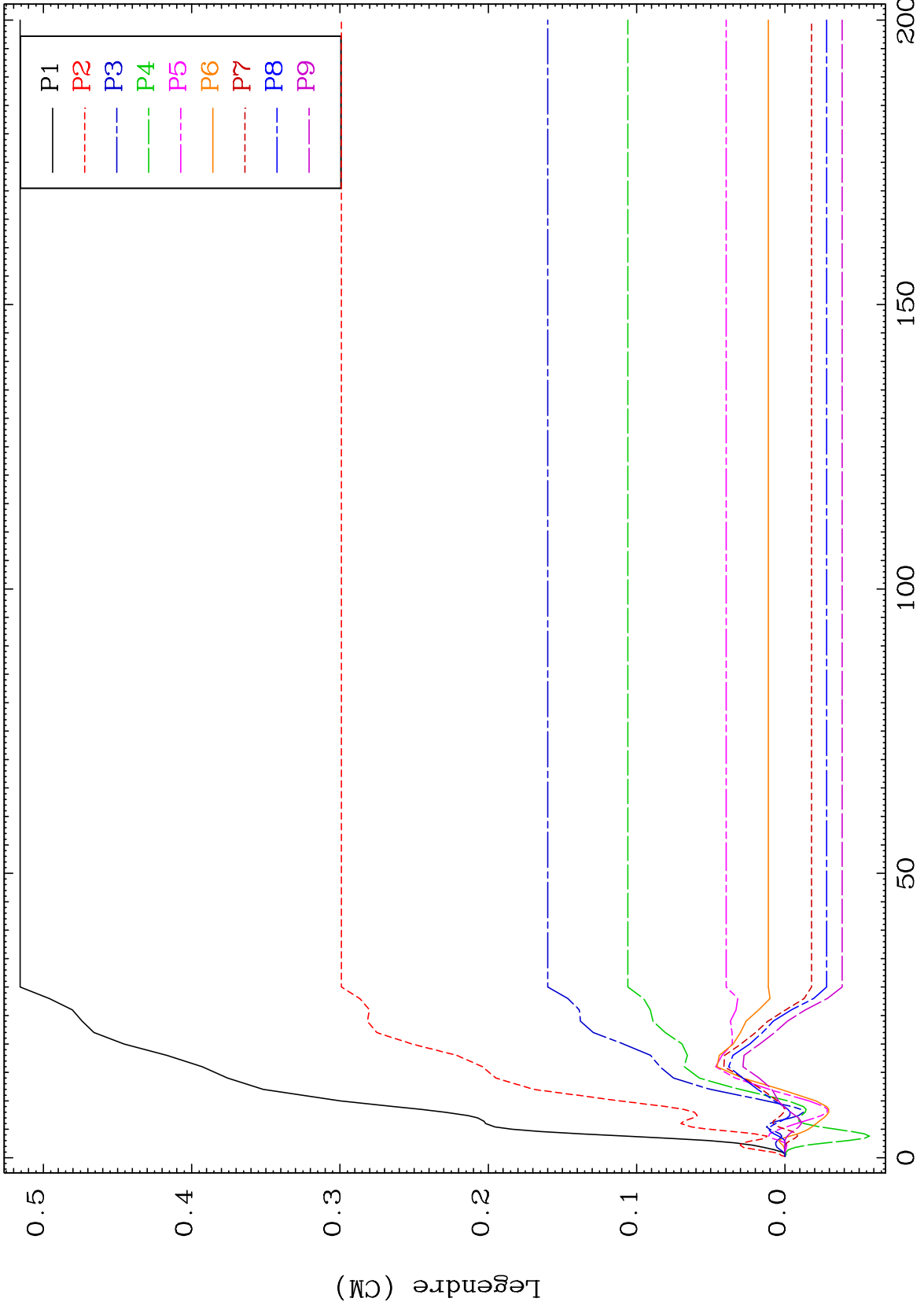


19

Incident Energy (MeV)

64-Gd-149

MAT 6416 MT= 51 (n,n') Level Legendre Coefficients 64-Gd-149

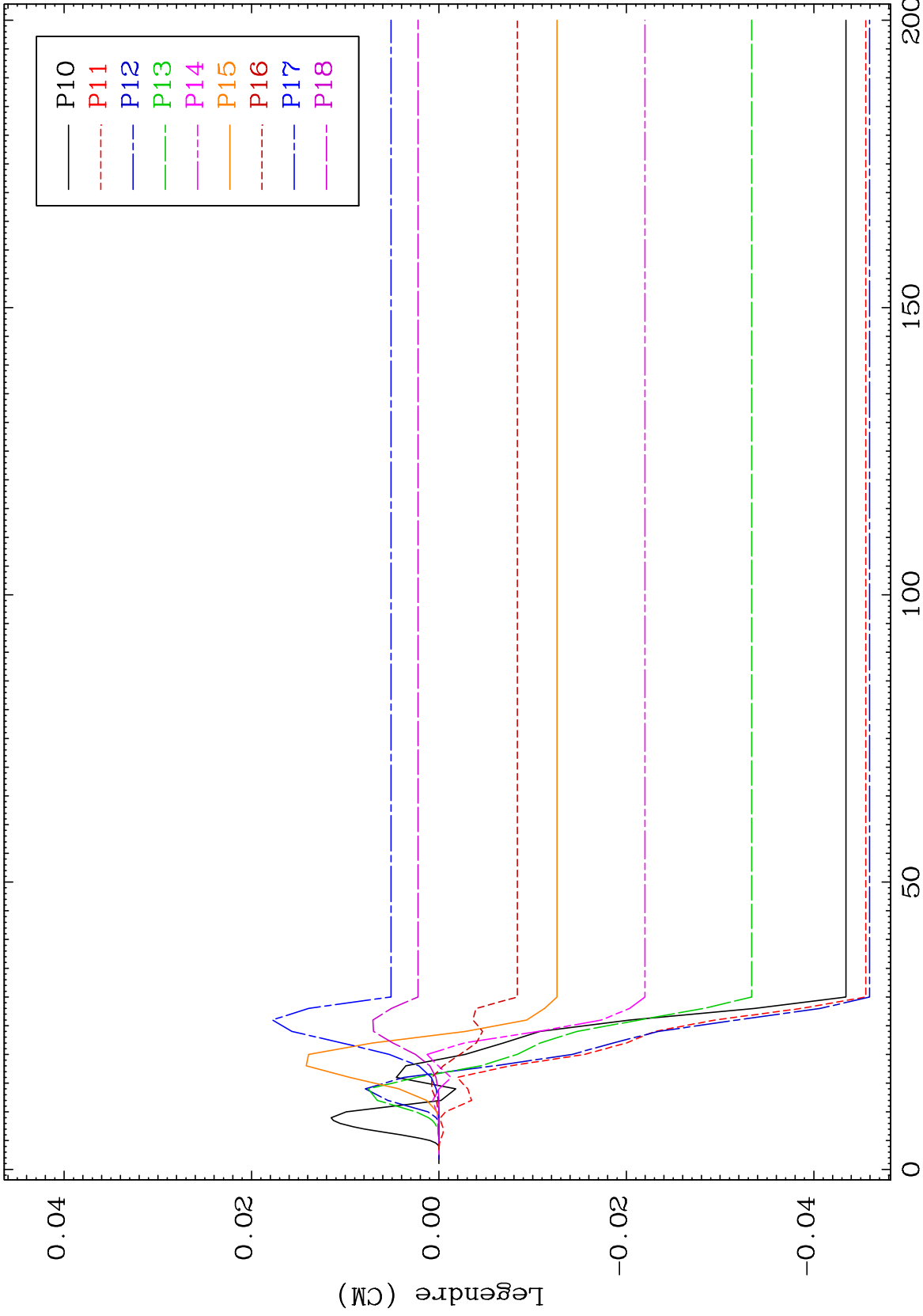


64-Gd-149

MAT 6416

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

64-Gd-149



21

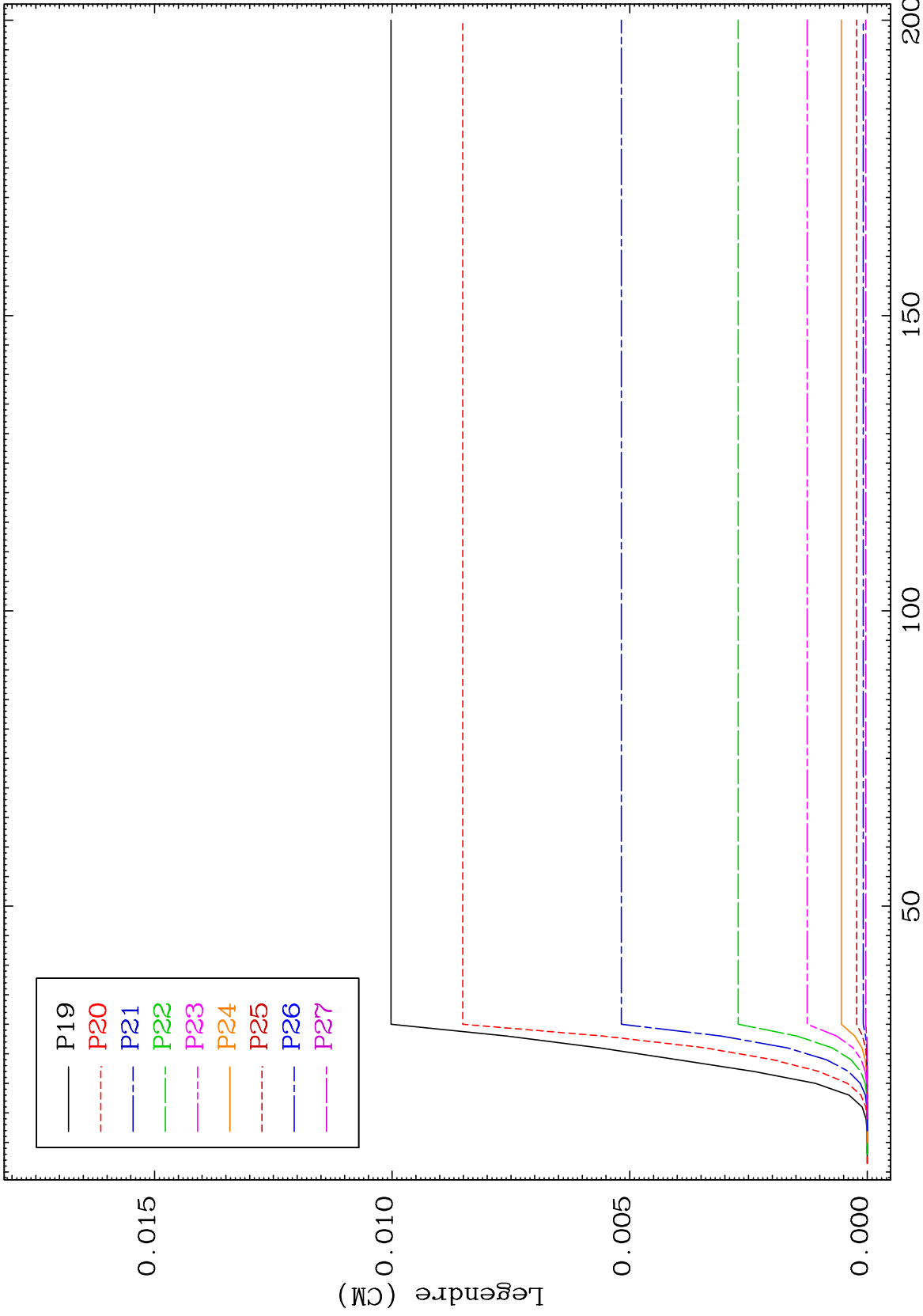
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149



22

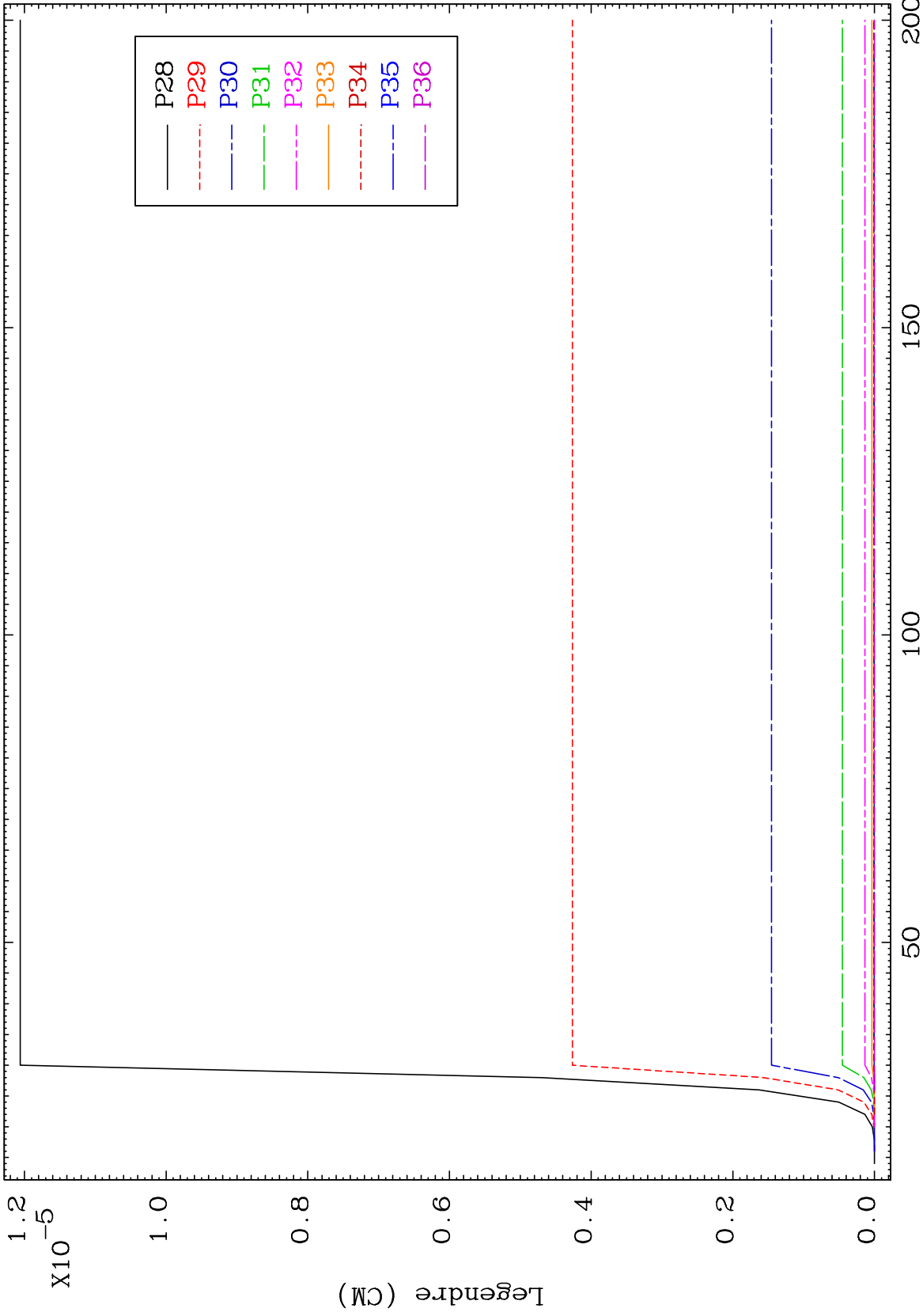
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149

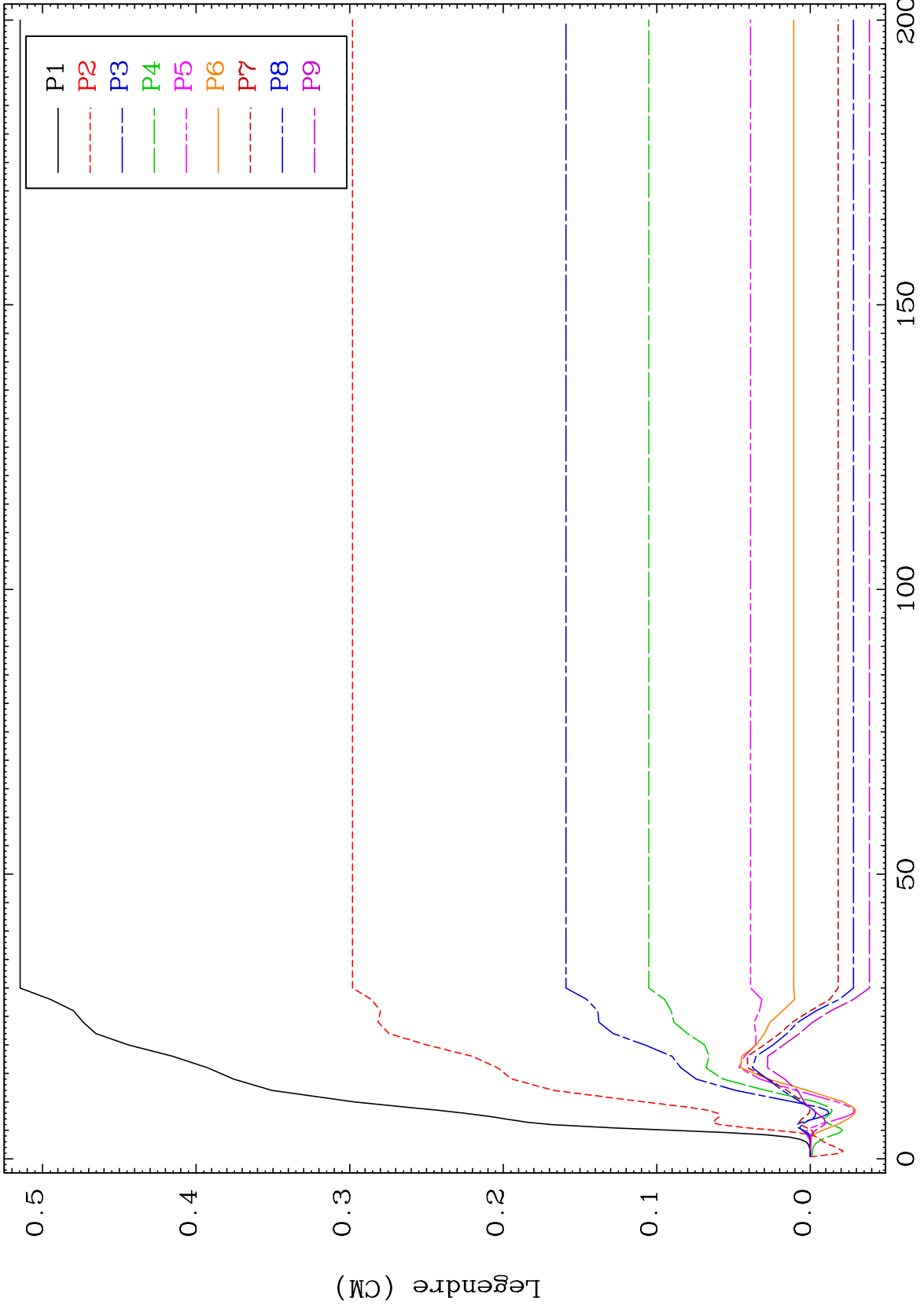


23

Incident Energy (MeV)

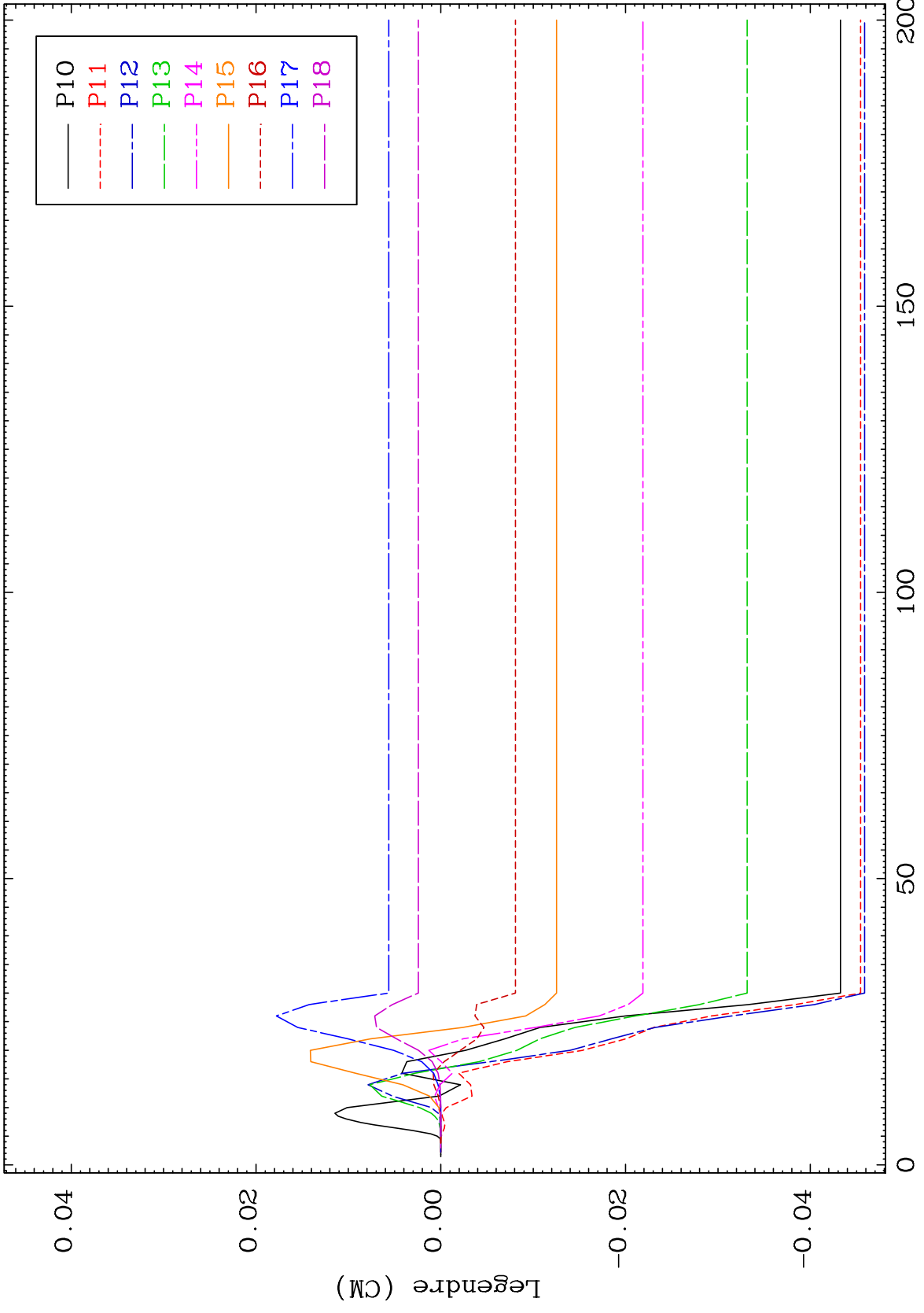
64-Gd-149

MAT 6416 MT= 52 (n,n') Level Legendre Coefficients 64-Gd-149

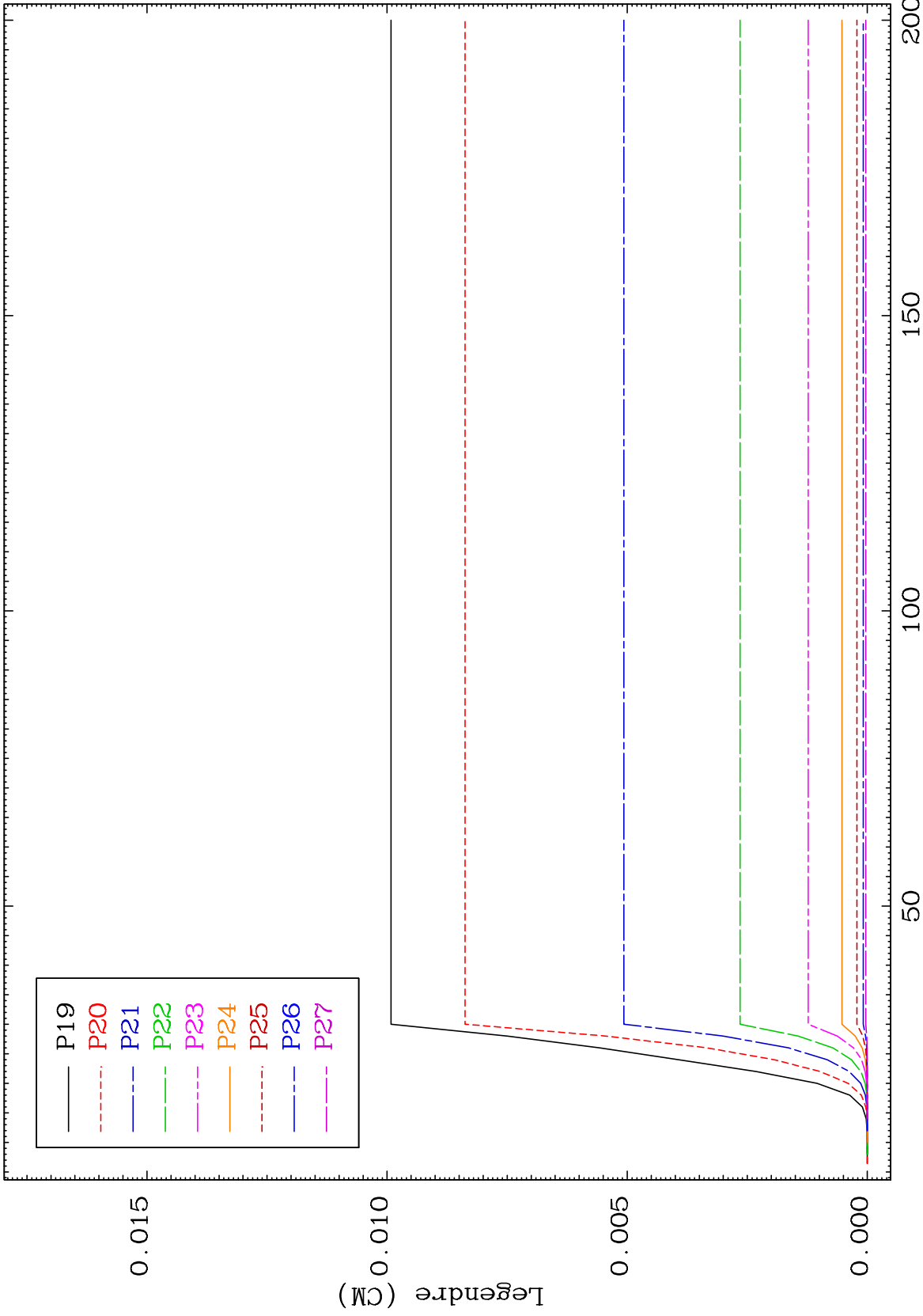


24 64-Gd-149

MAT 6416 MT= 52 (n,n') Level Legendre Coefficients 64-Gd-149



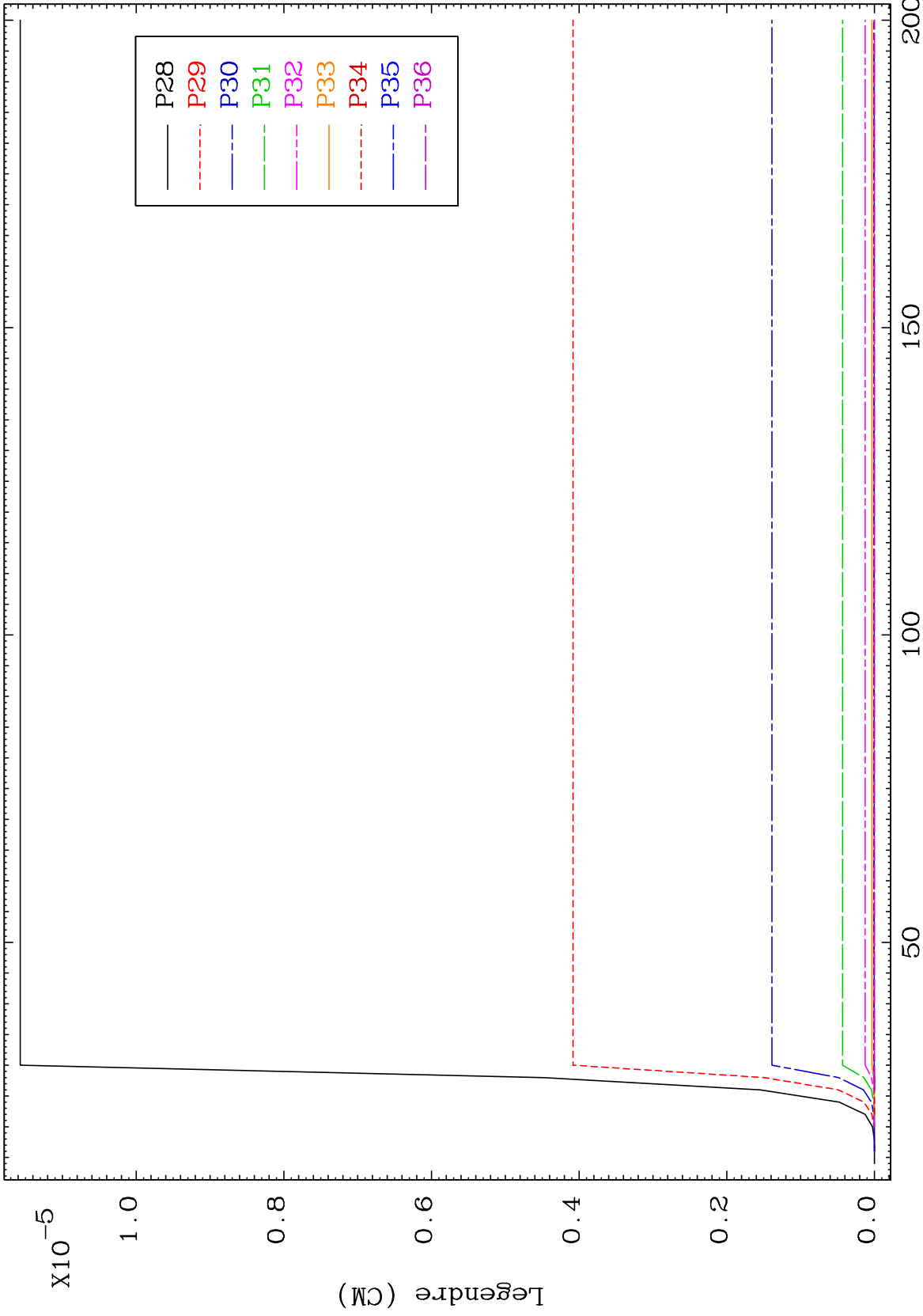
64-Gd-149



MAT 6416

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

64-Gd-149



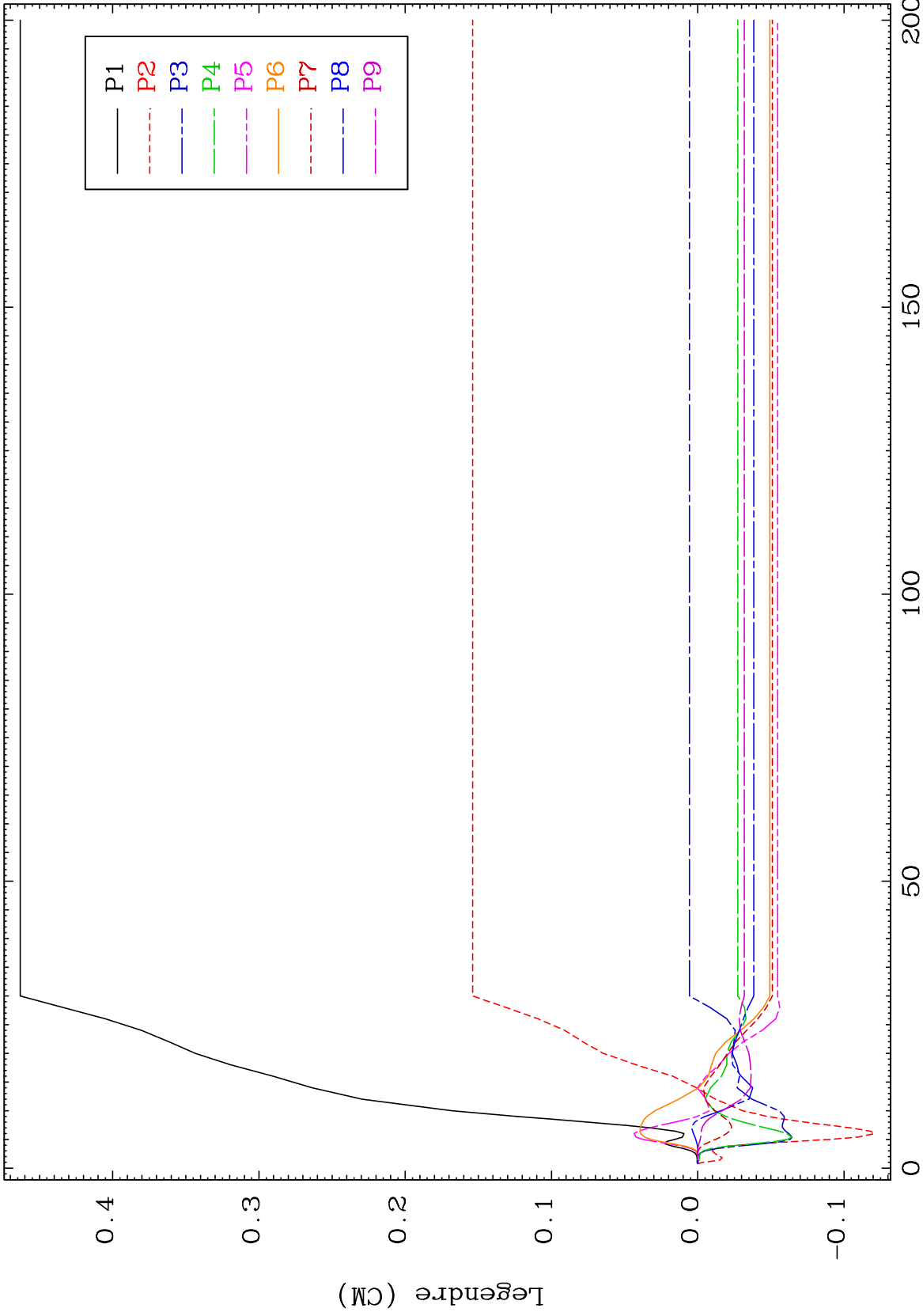
27

64-Gd-149

MAT 6416

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

64-Gd-149



28

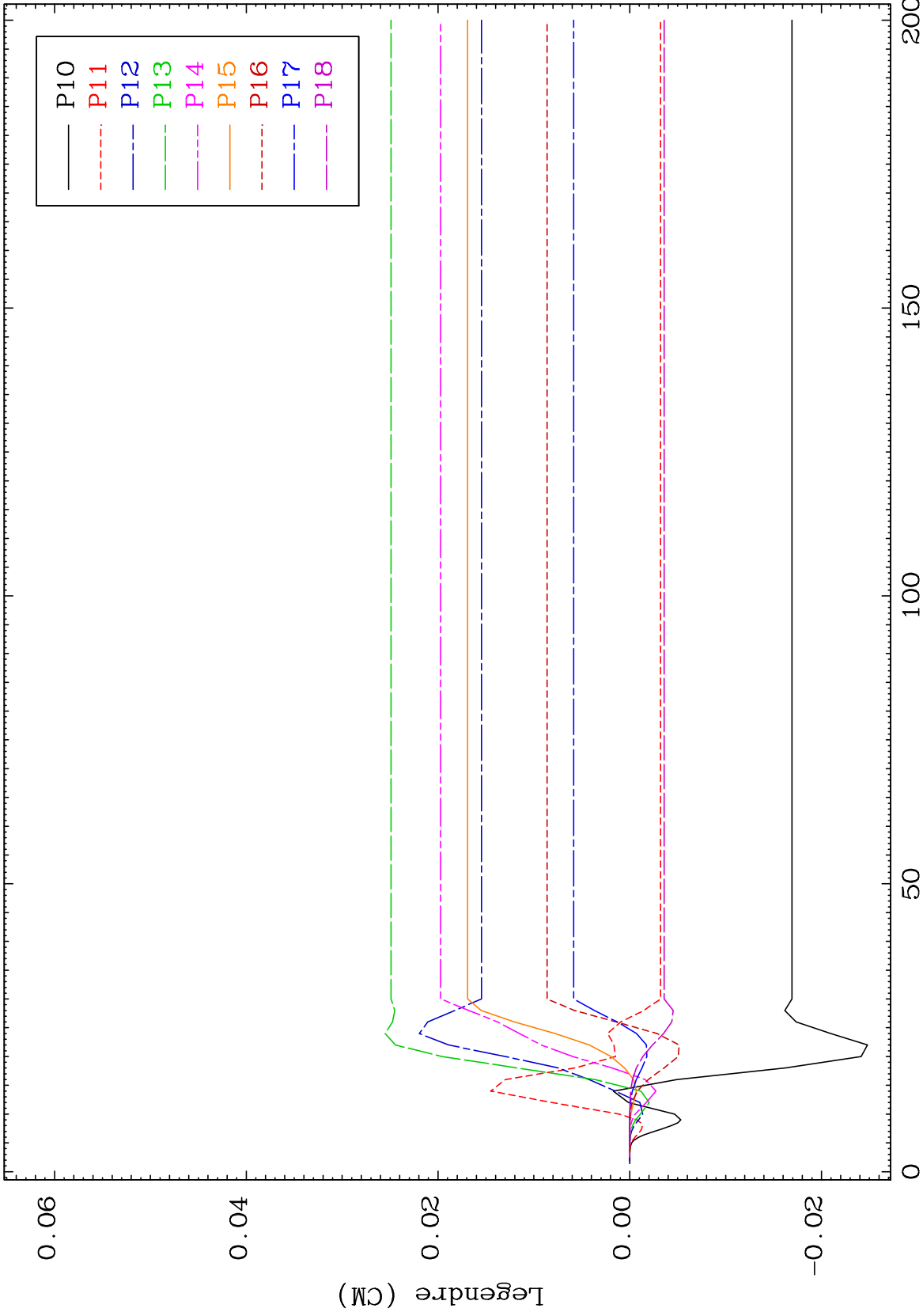
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149



29

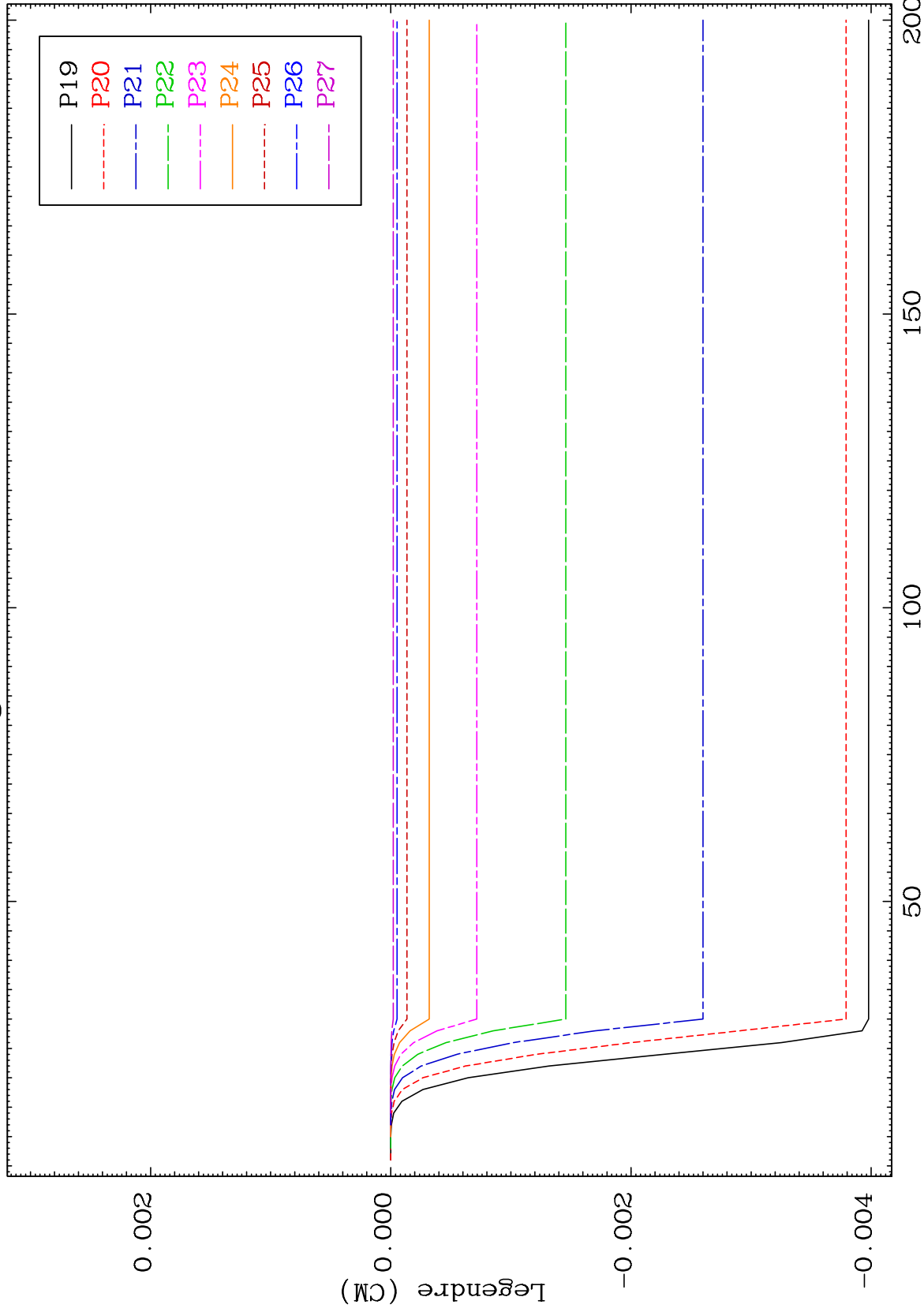
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149



30

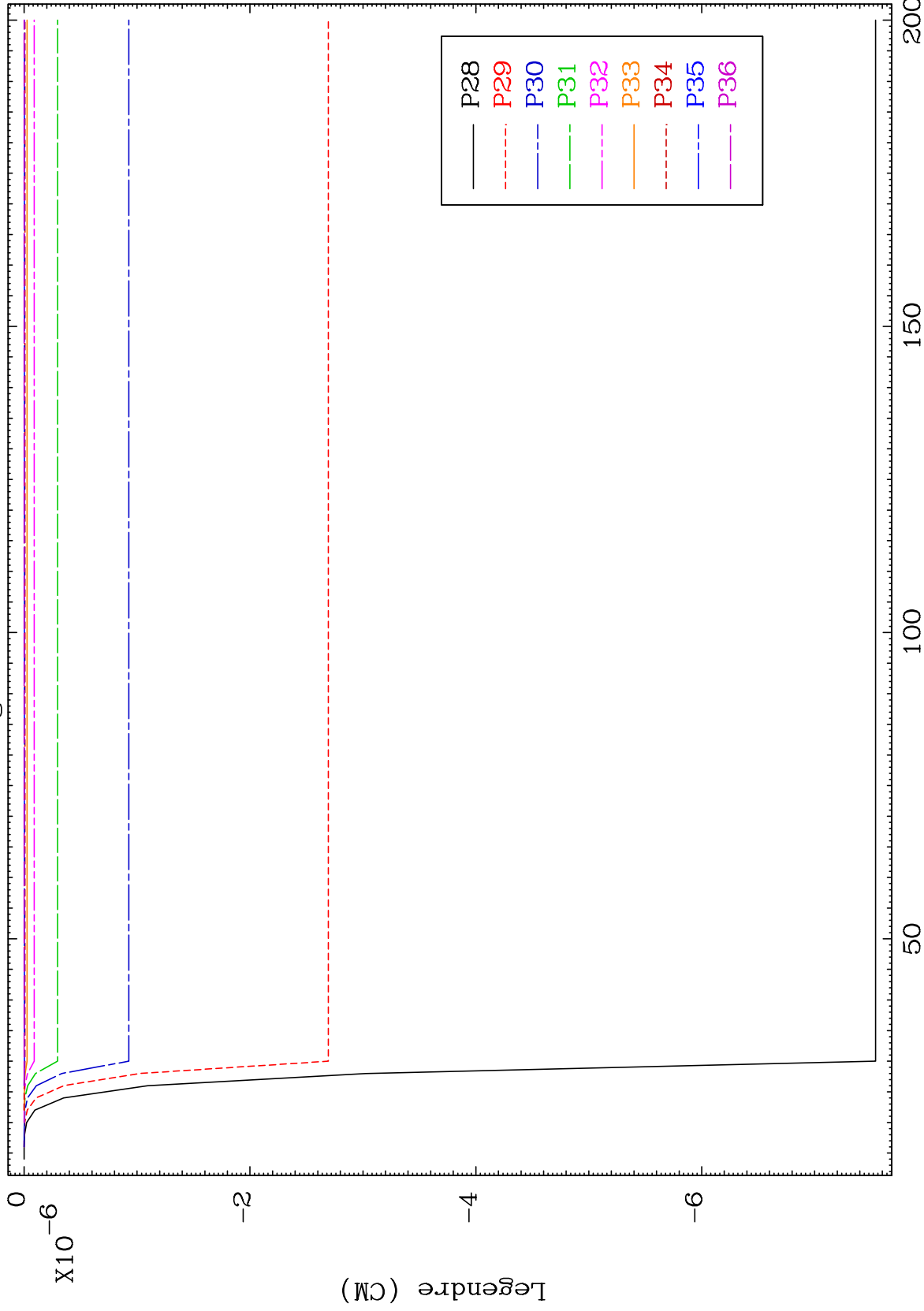
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149



64-Gd-149

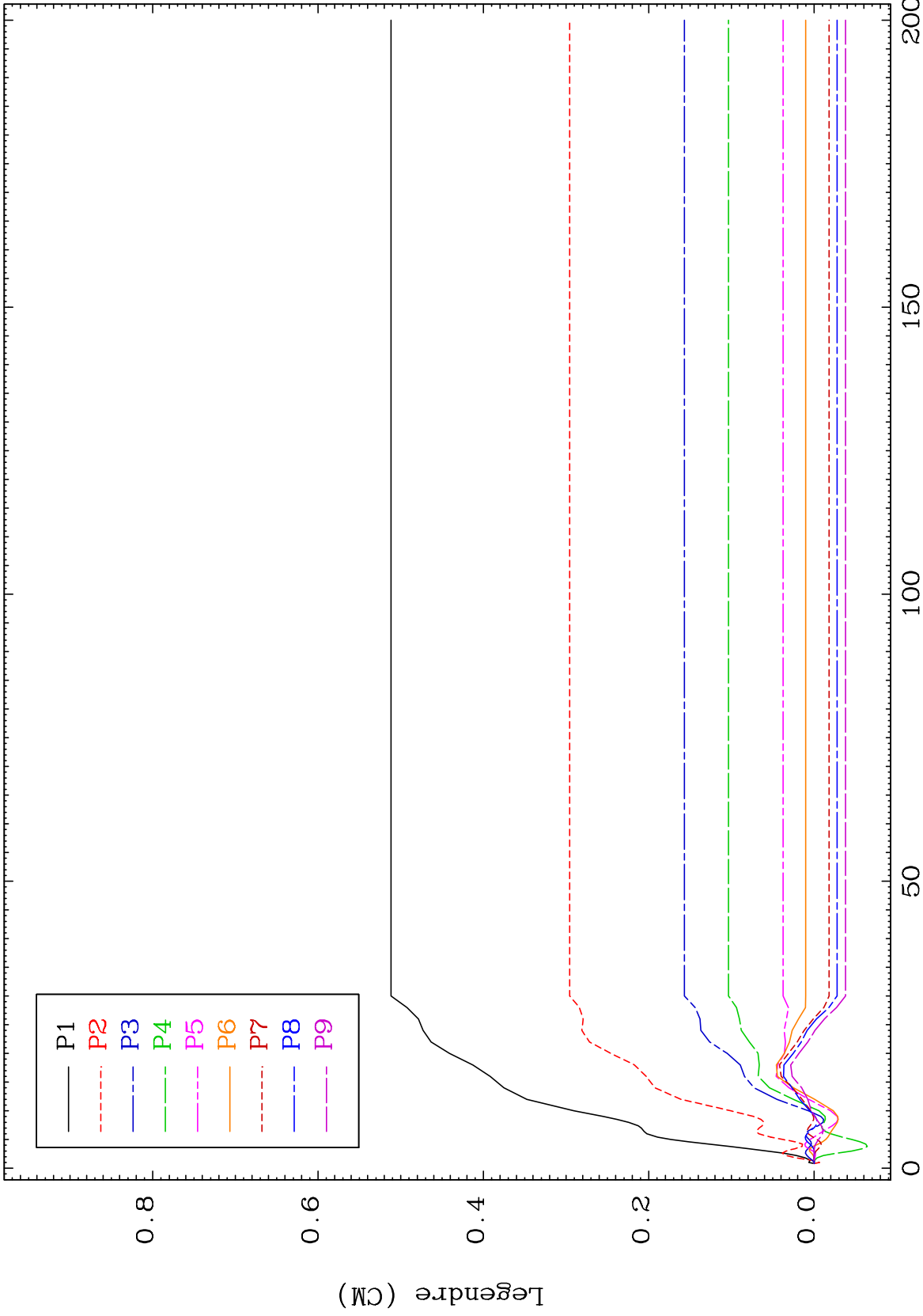
Incident Energy (MeV)

31

MAT 6416

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

64-Gd-149



32

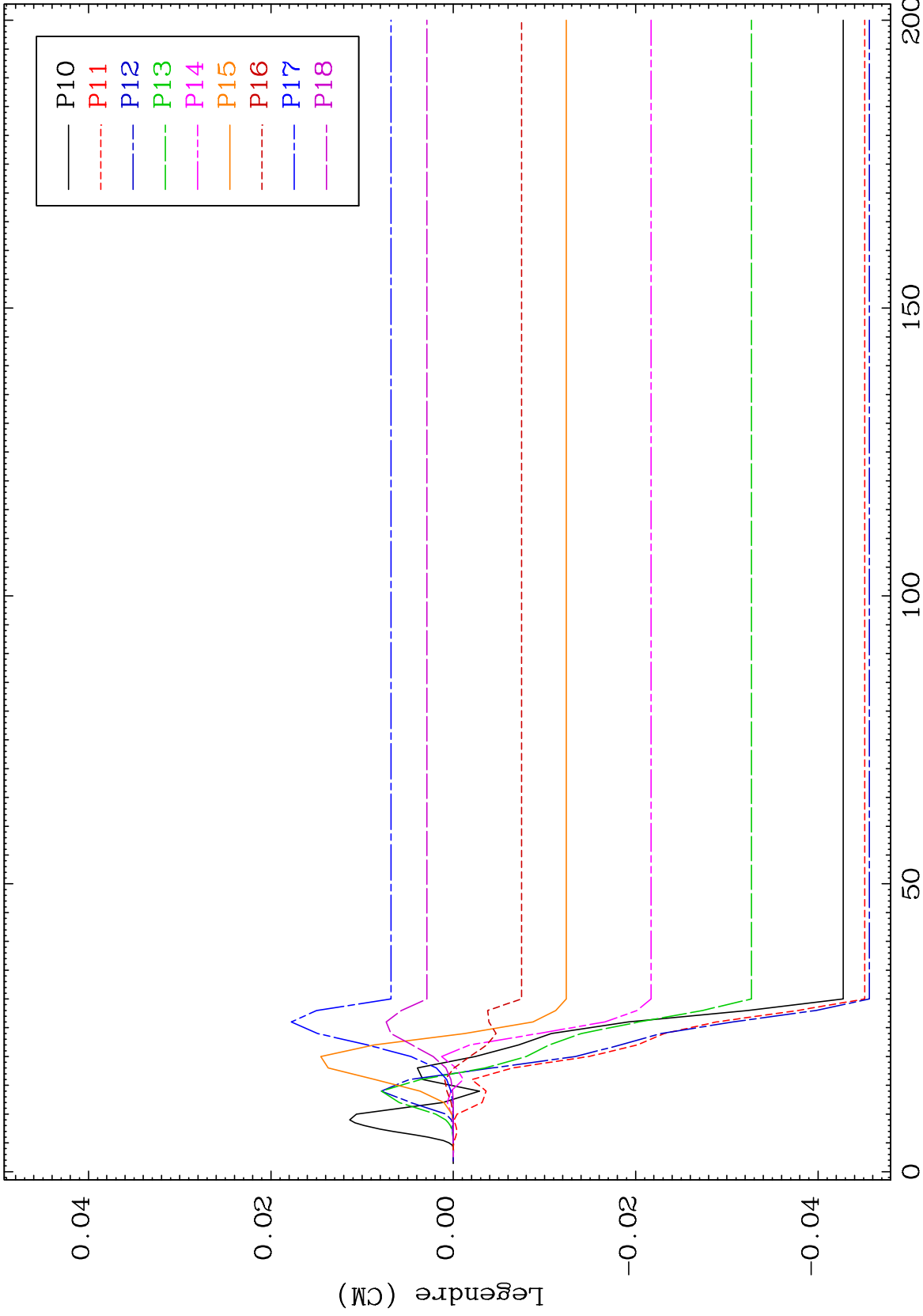
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

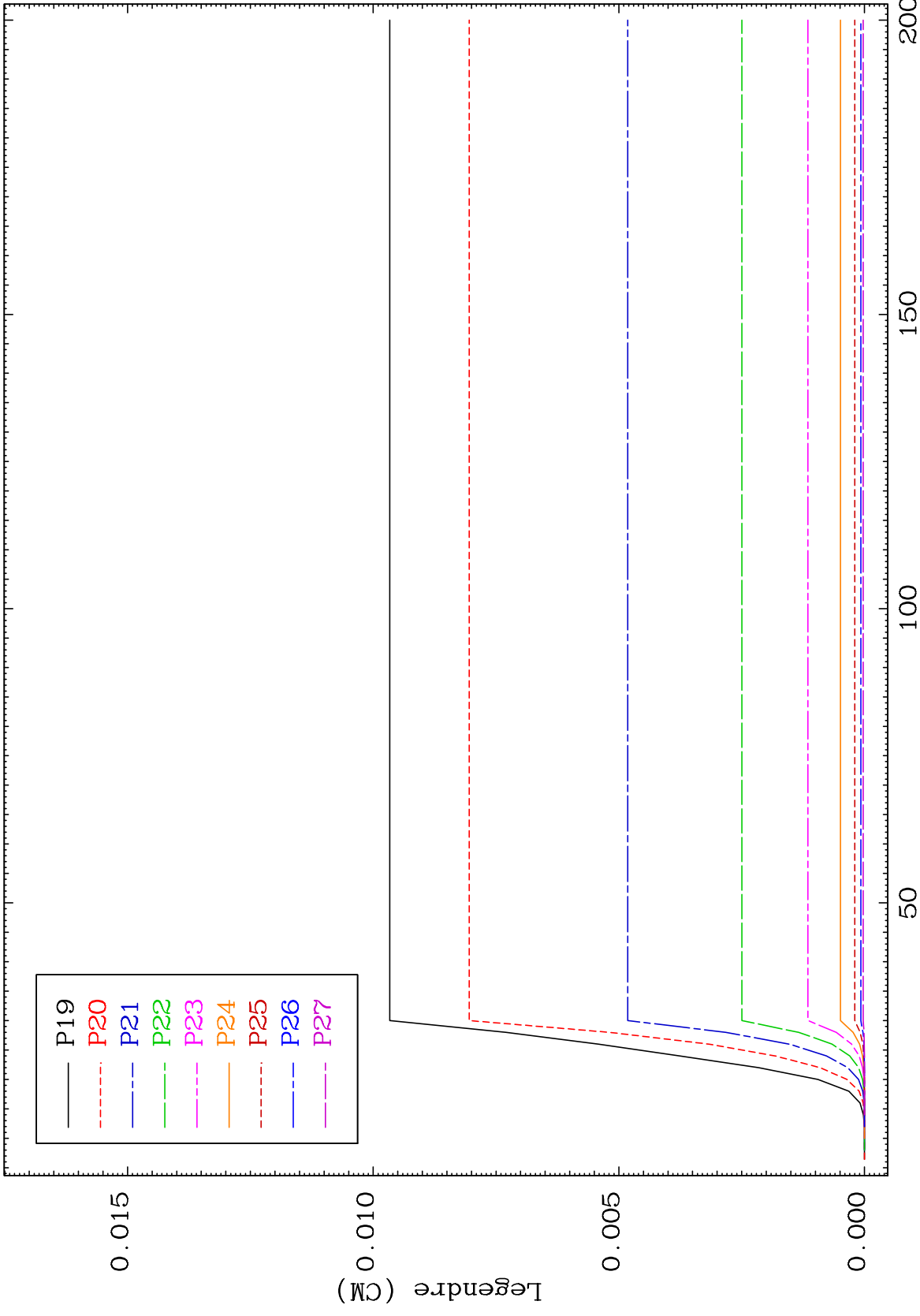
64-Gd-149



33

Incident Energy (MeV)

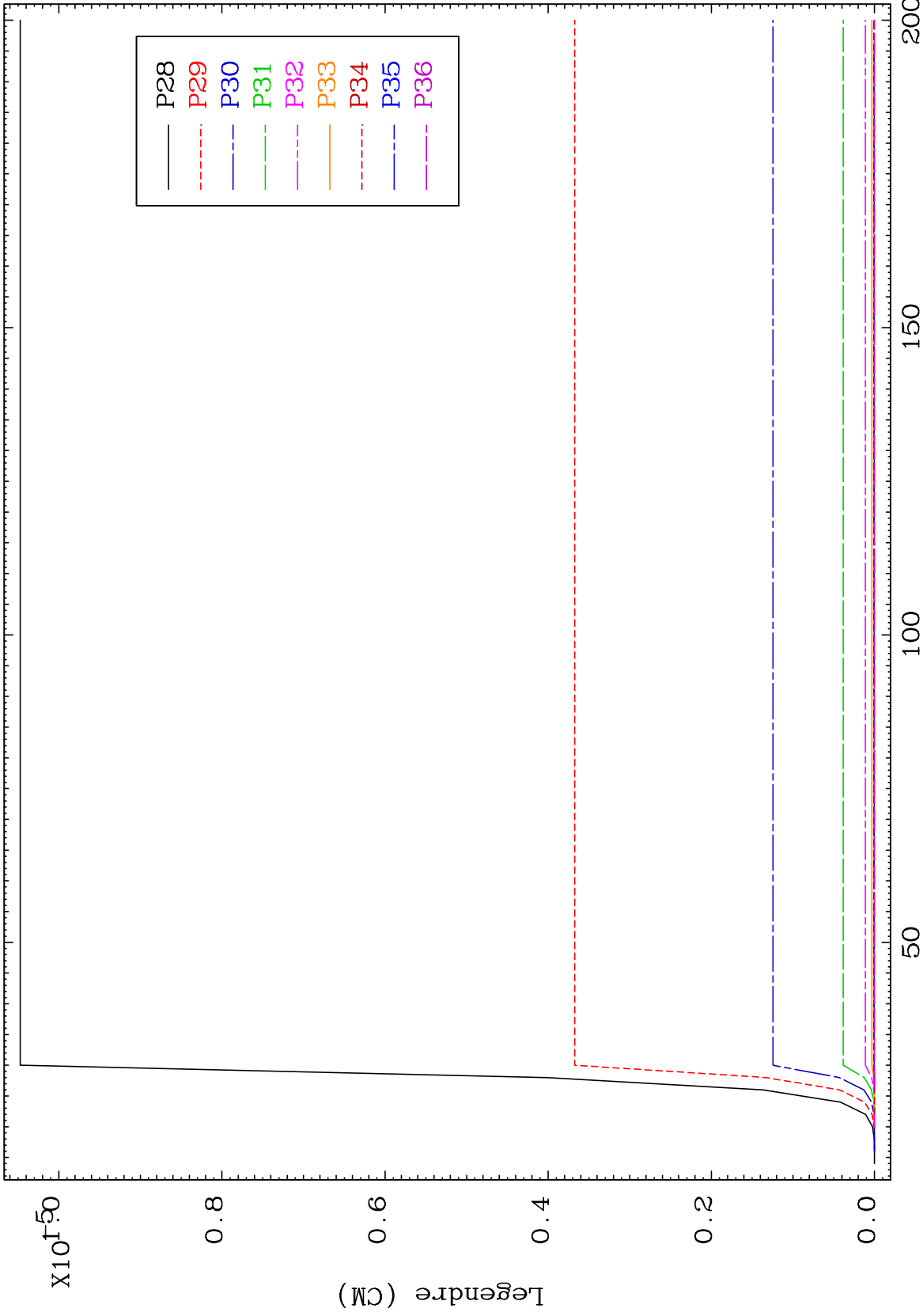
64-Gd-149



MAT 6416

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

64-Gd-149



35

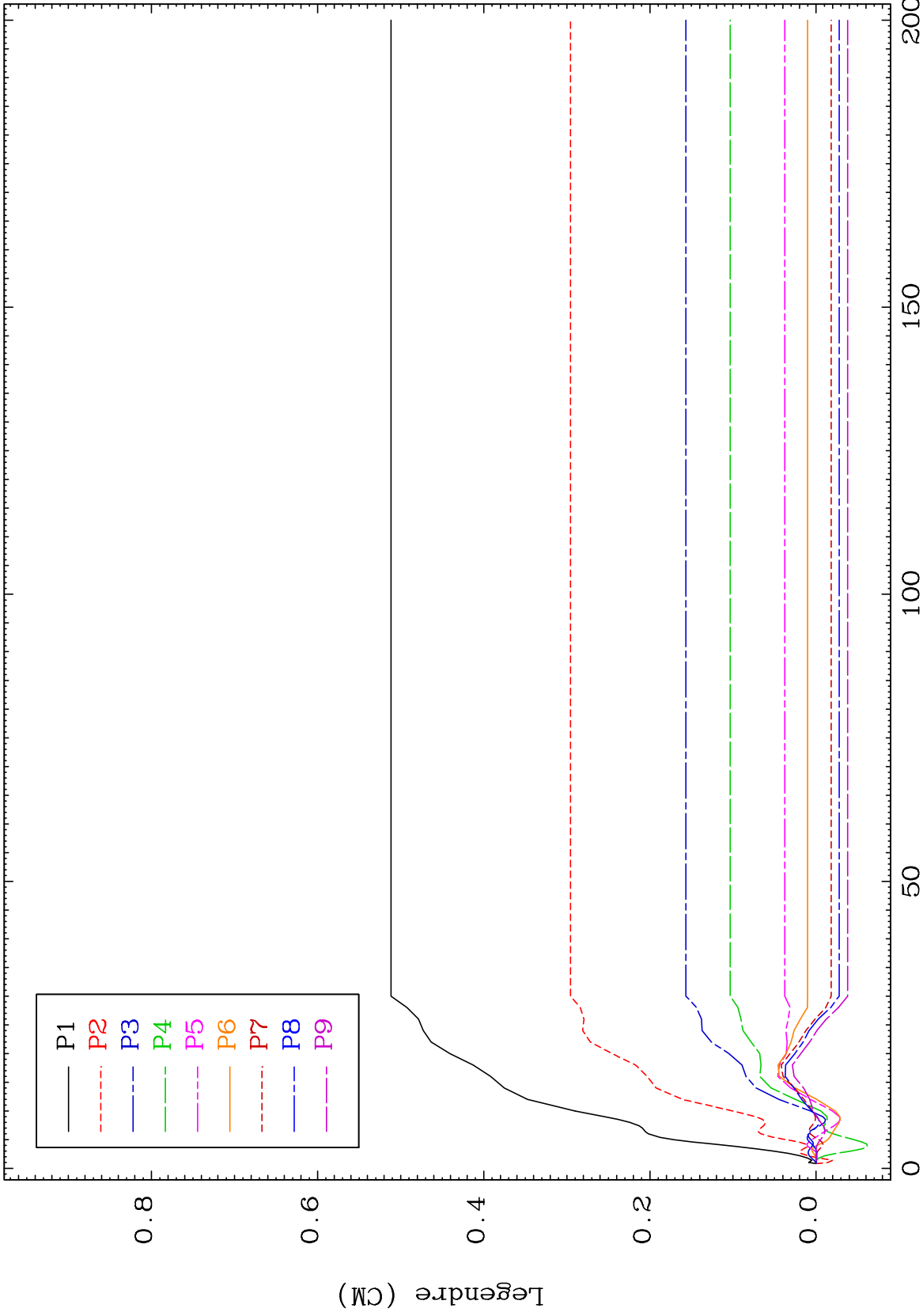
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

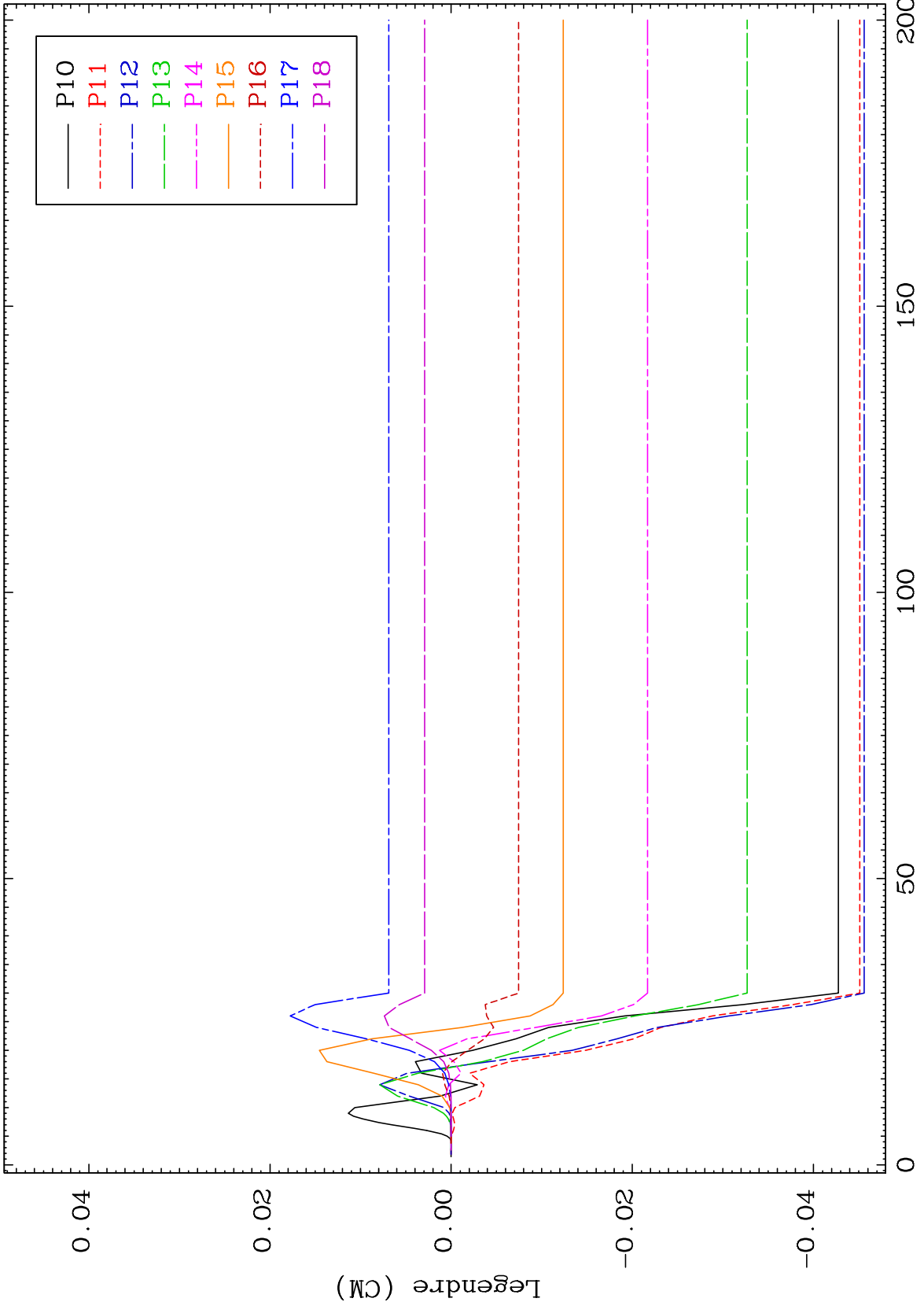
64-Gd-149



36

64-Gd-149

MAT 6416 MT= 55 (n,n') Level Legendre Coefficients 64-Gd-149

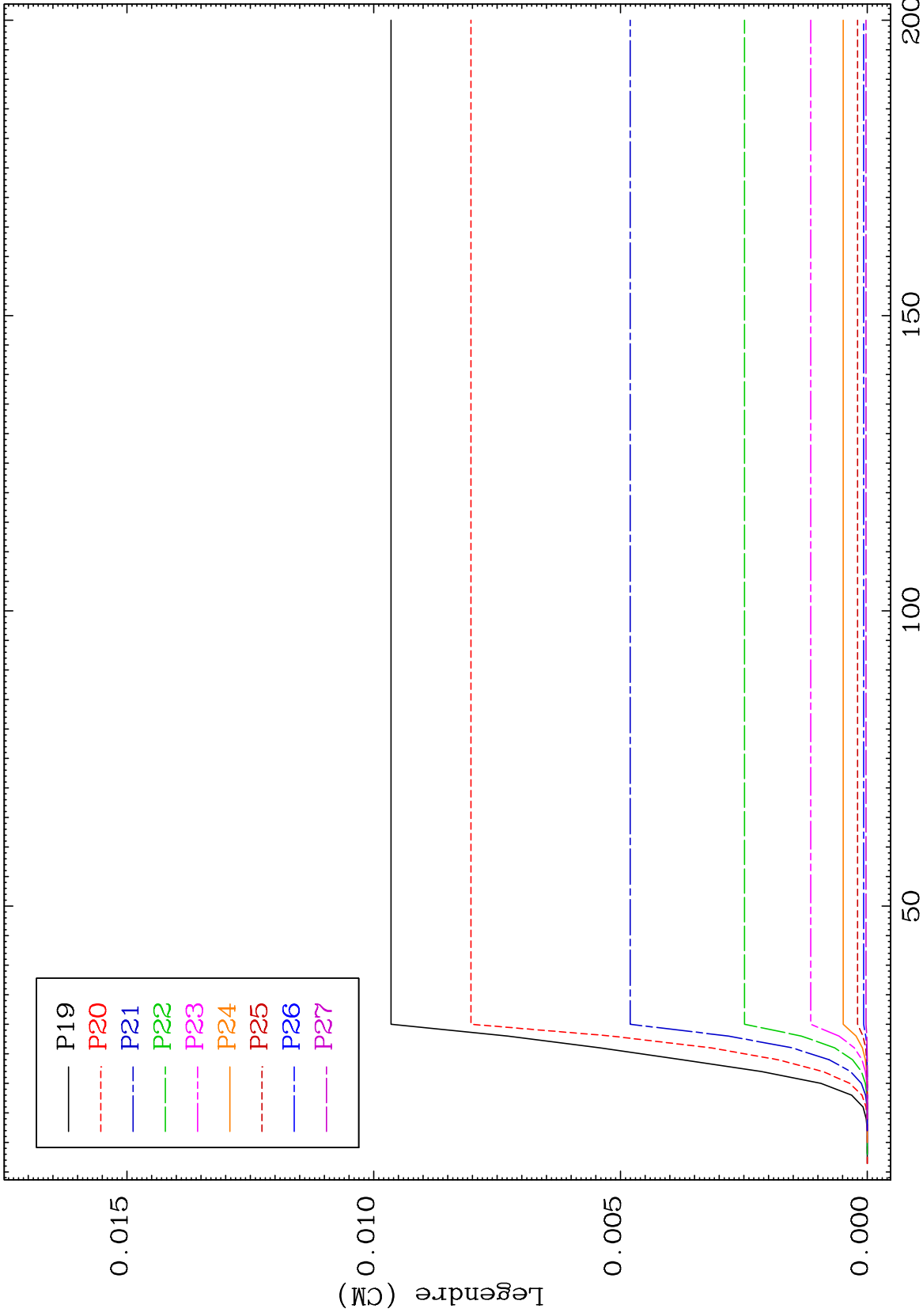


37 64-Gd-149

MAT 6416

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

64-Gd-149



38

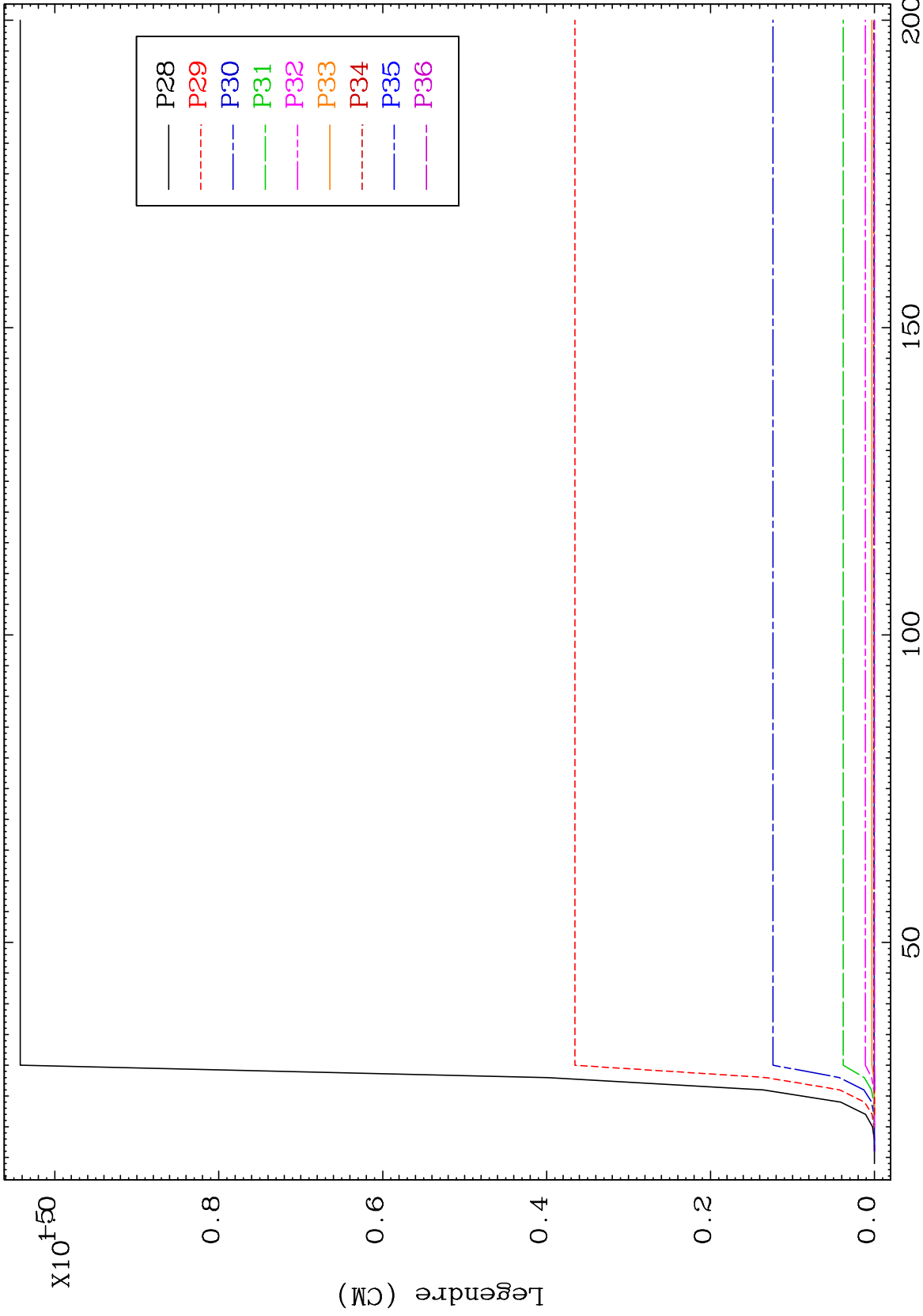
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149



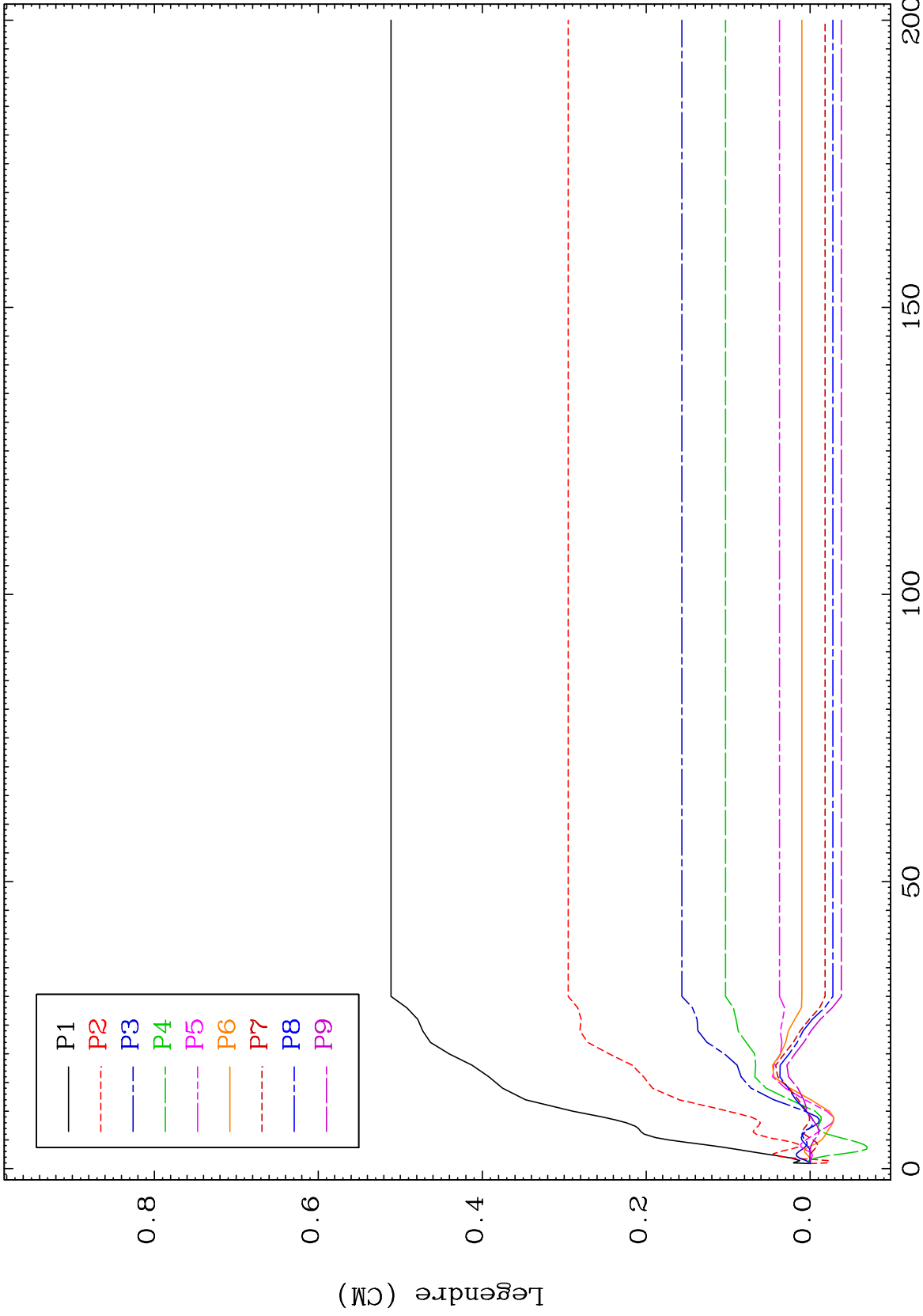
39

64-Gd-149

MAT 6416

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

64-Gd-149



64-Gd-149

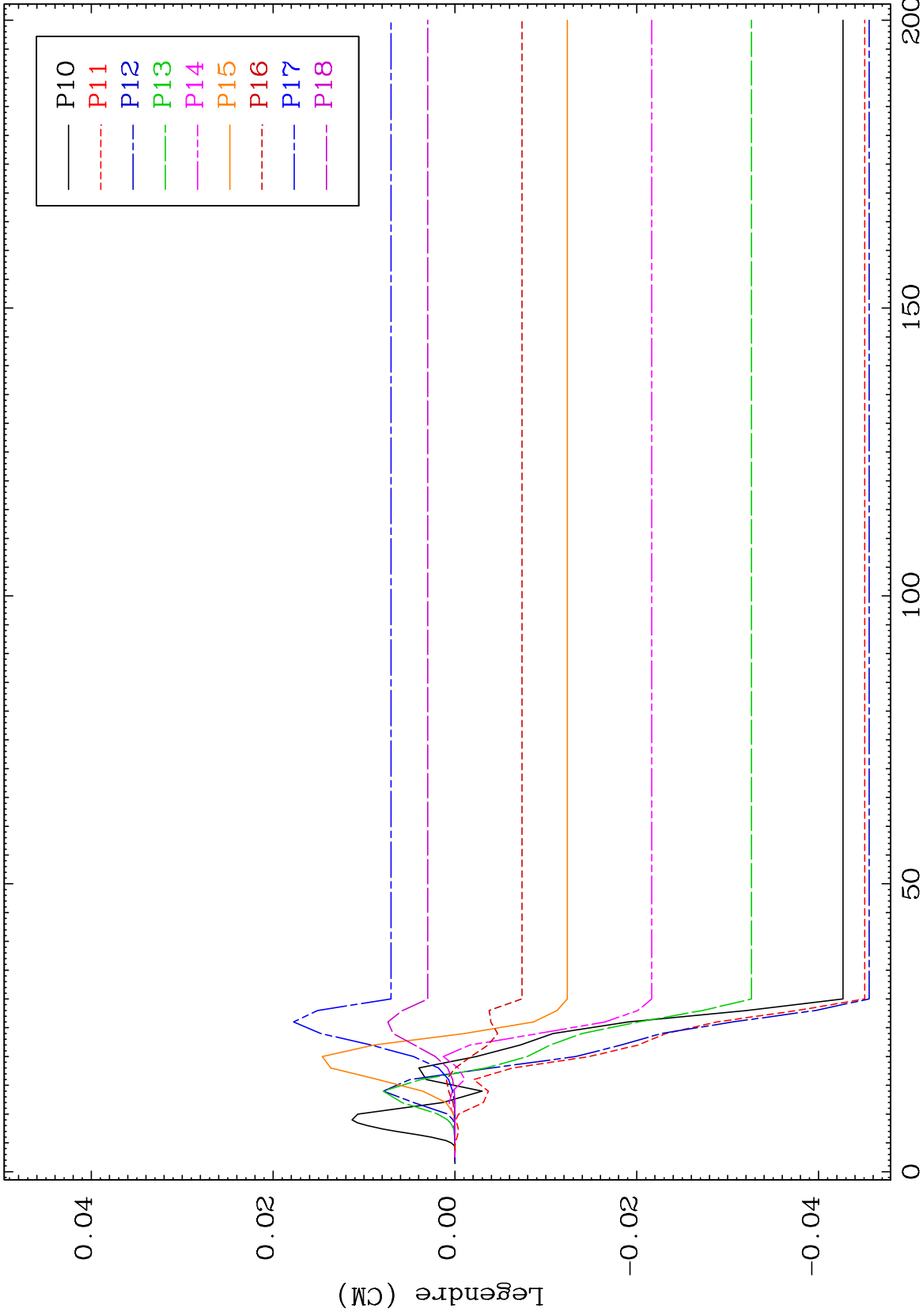
Incident Energy (MeV)

40

MAT 6416

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

64-Gd-149



41

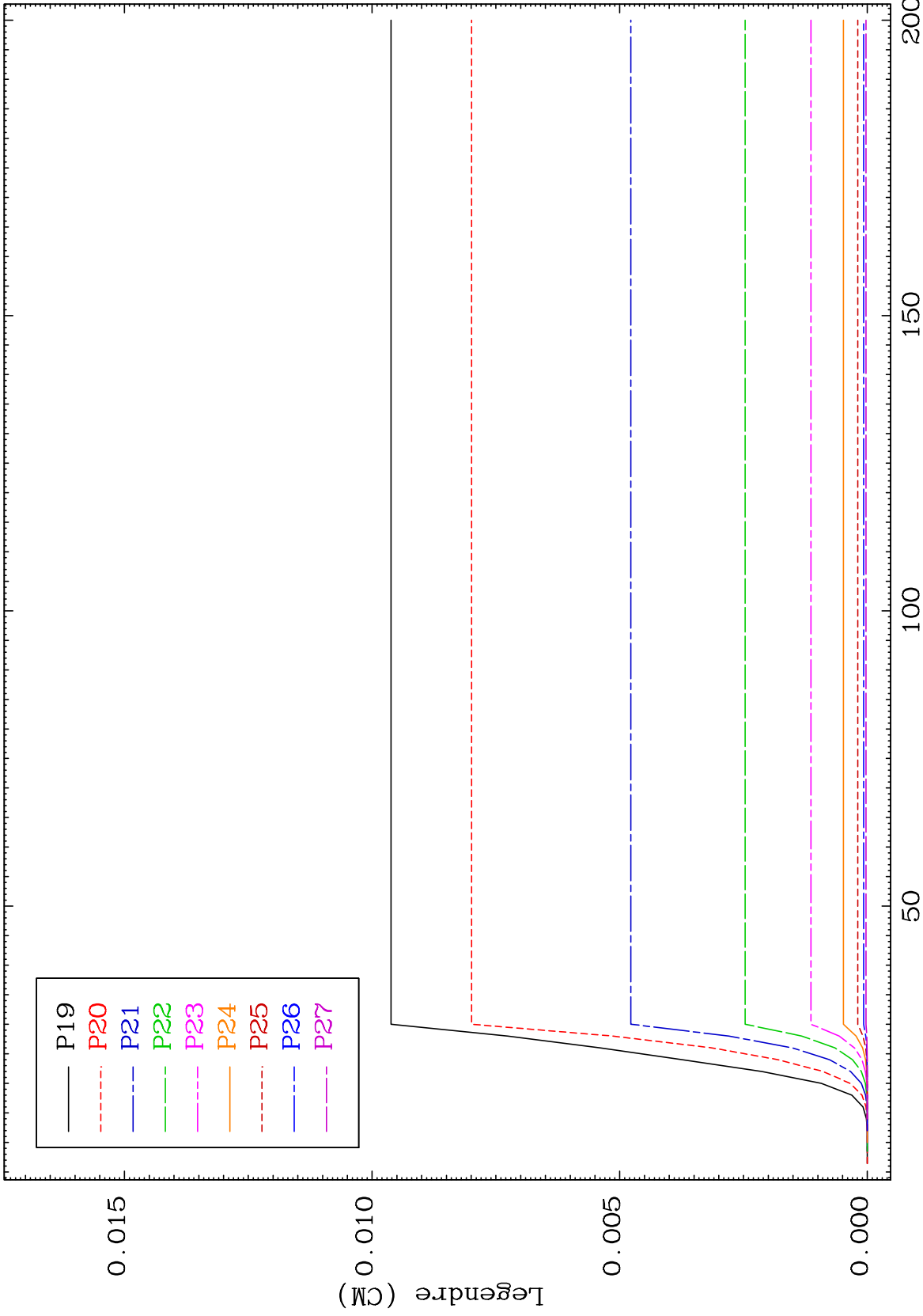
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149



42

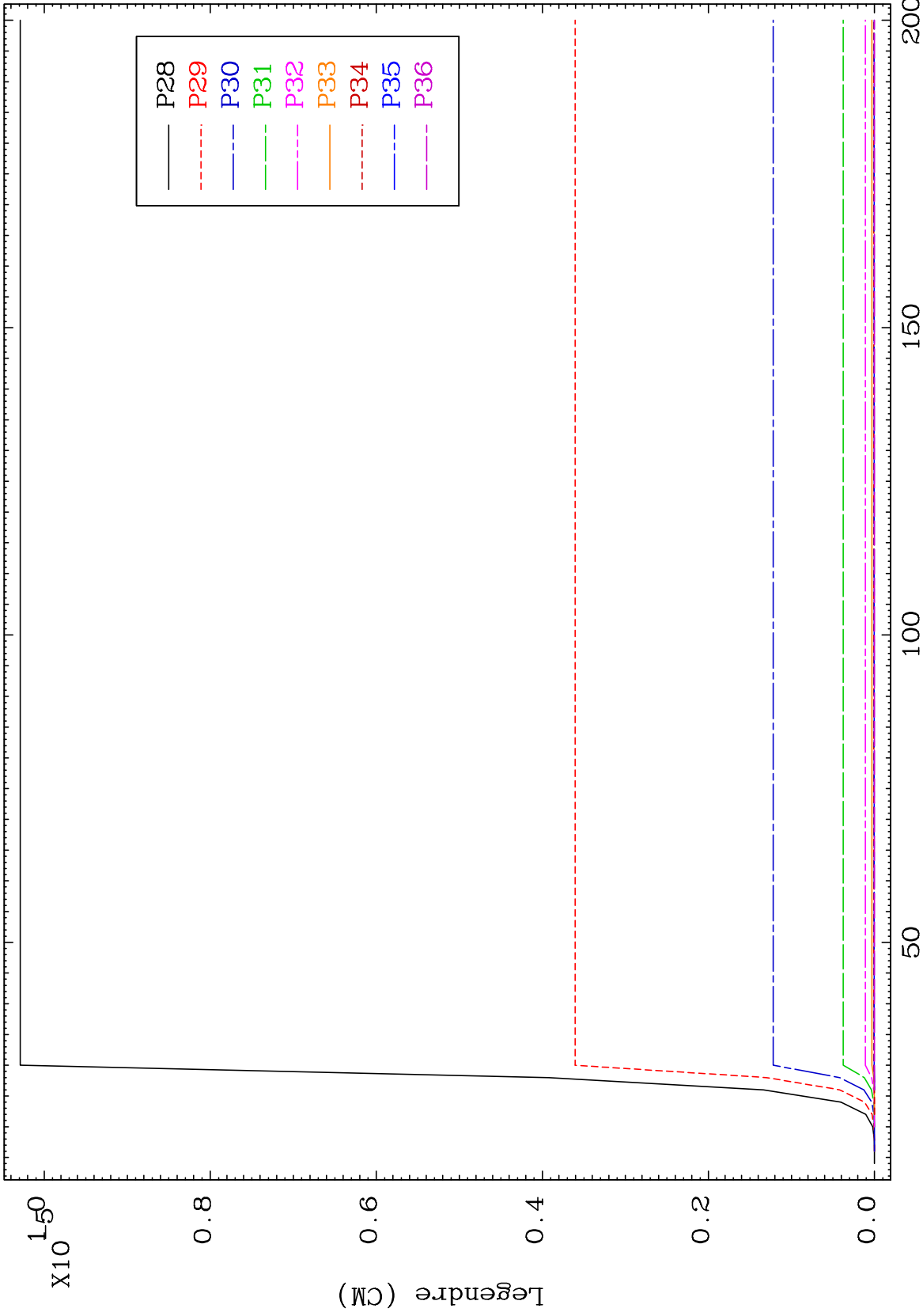
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149



43

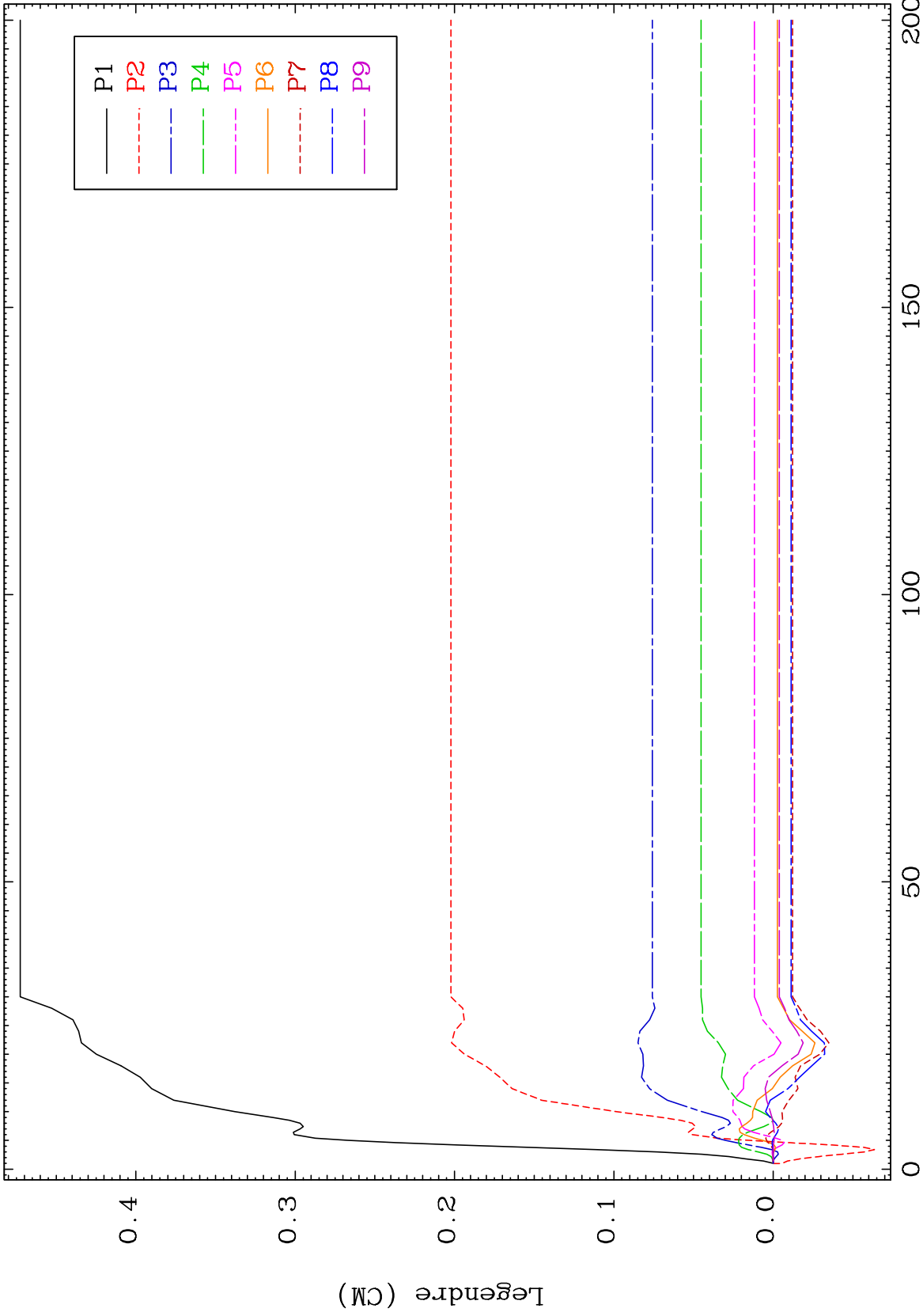
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149

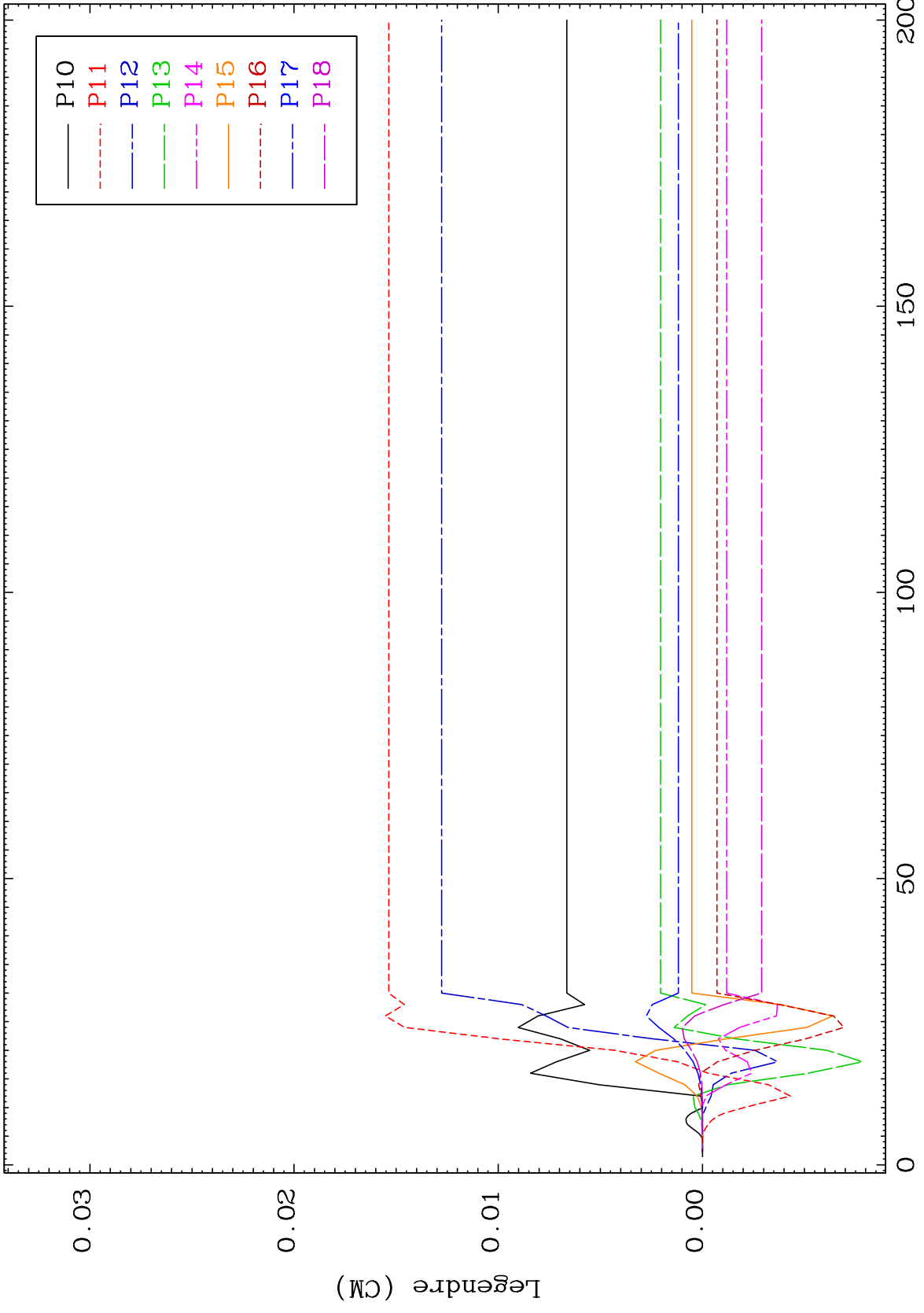


44

Incident Energy (MeV)

64-Gd-149

MAT 6416 MT= 57 (n,n') Level Legendre Coefficients 64-Gd-149

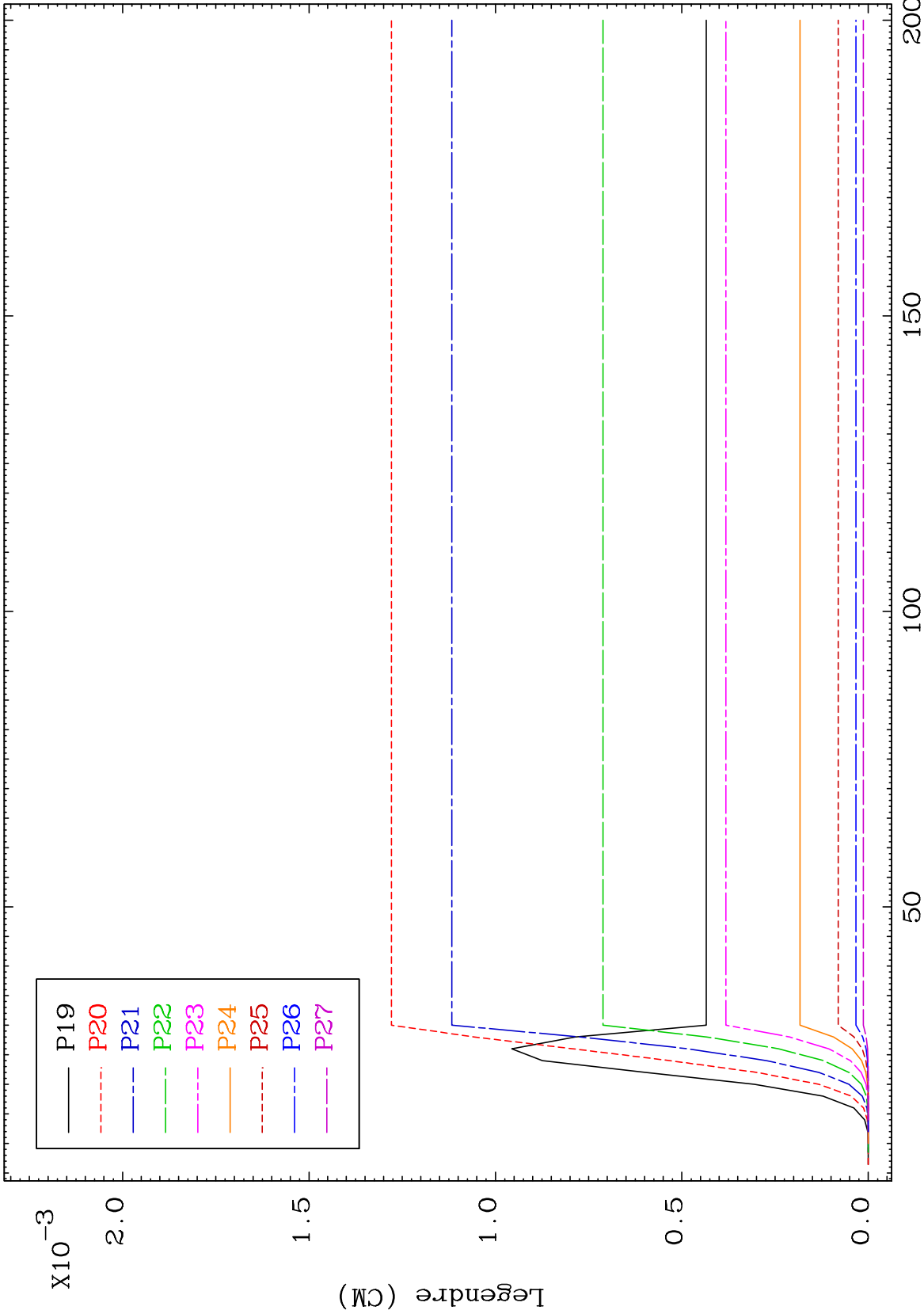


64-Gd-149

MAT 6416

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

64-Gd-149



46

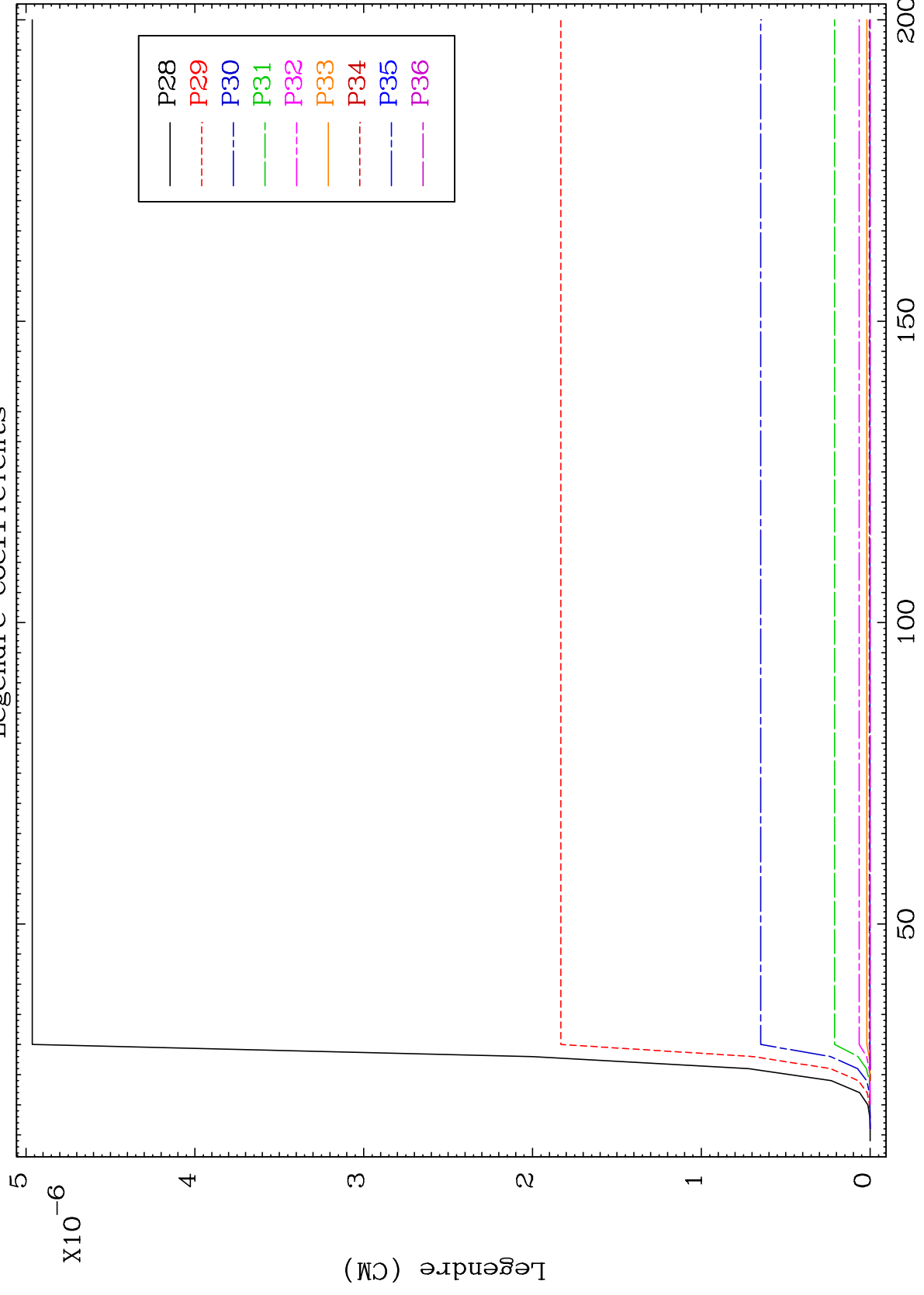
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149



47

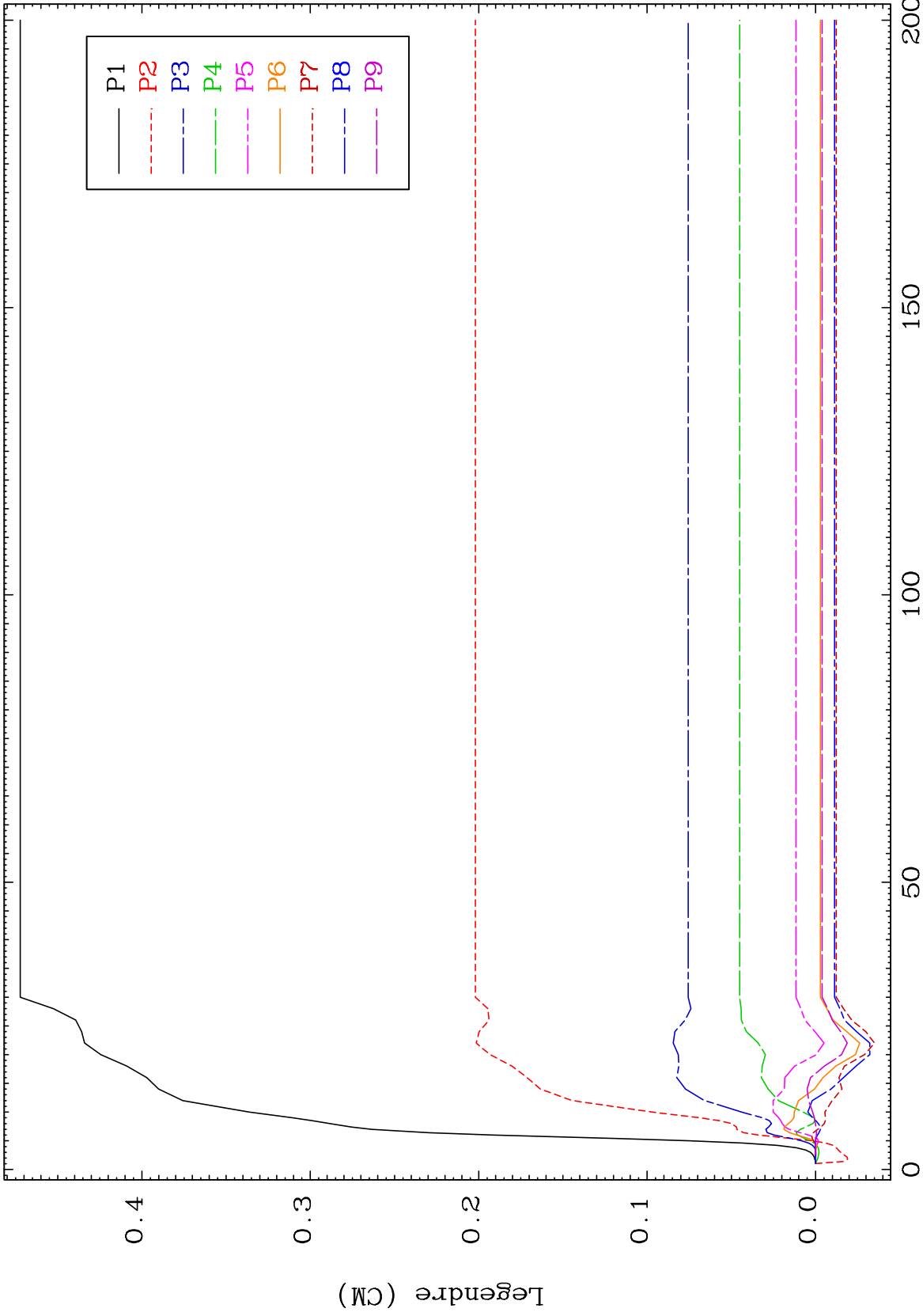
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149

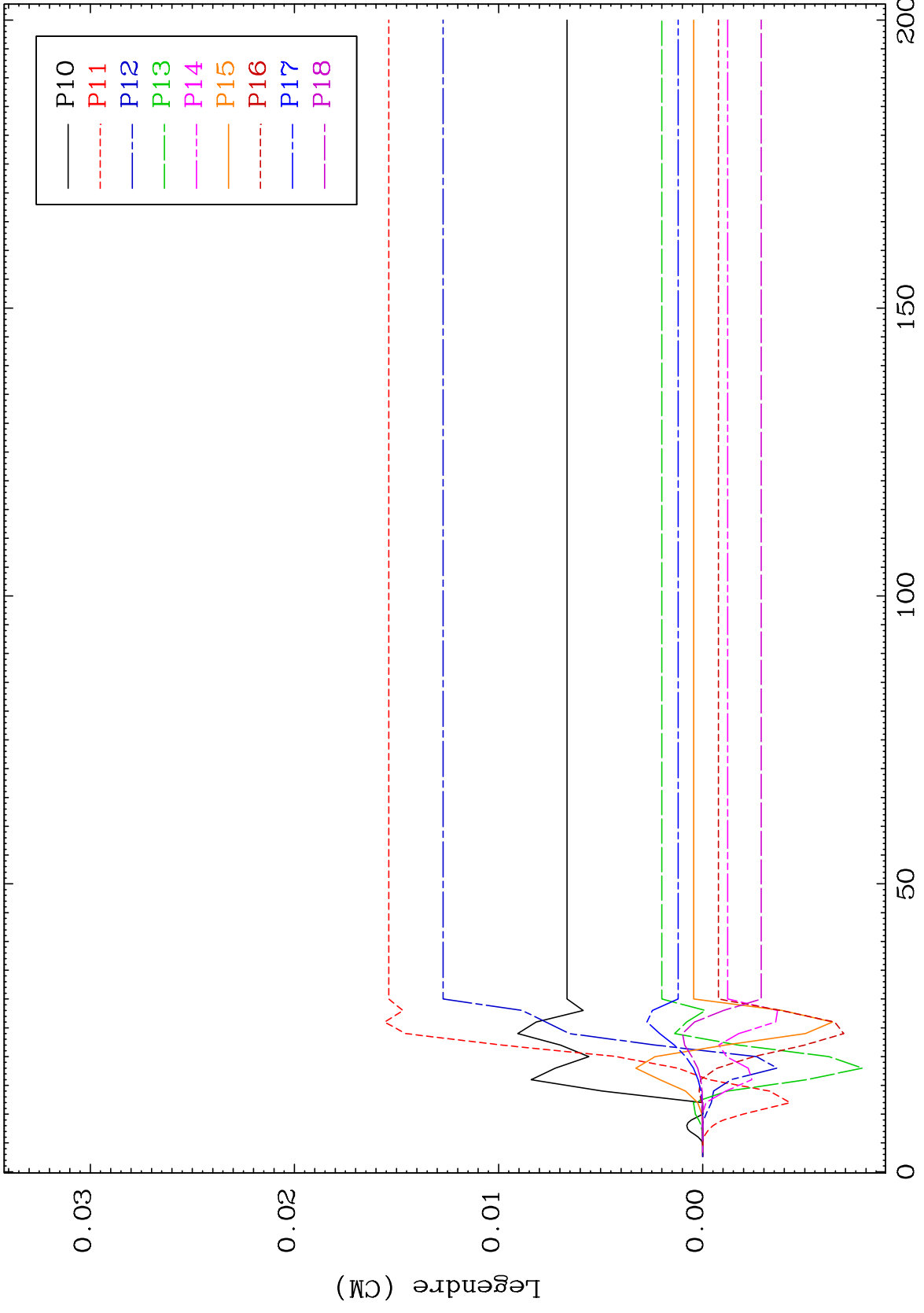


48

Incident Energy (MeV)

64-Gd-149

MAT 6416 MT= 58 (n,n') Level Legendre Coefficients 64-Gd-149

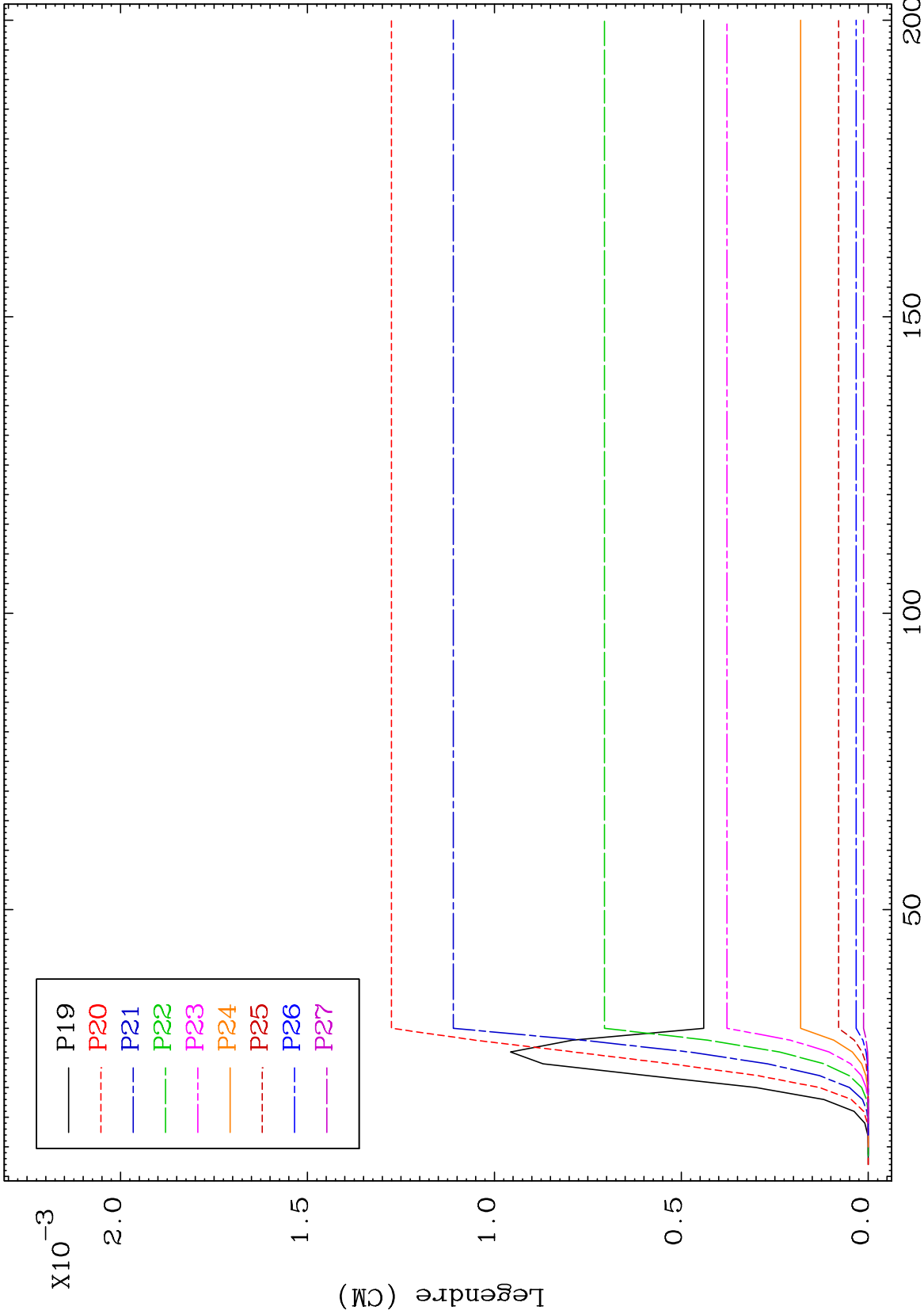


49 64-Gd-149

MAT 6416

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

64-Gd-149



50

50

100

150

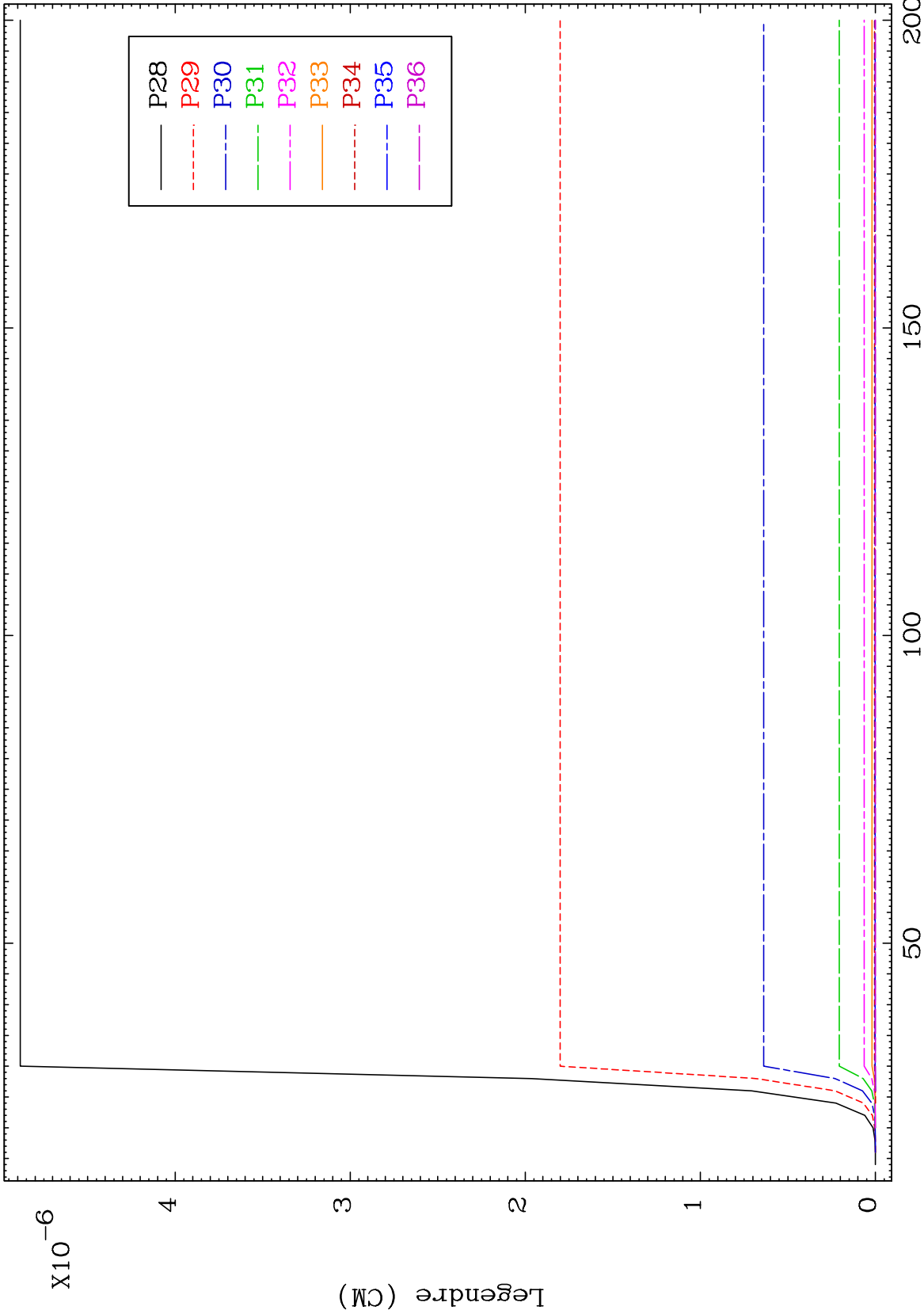
200

64-Gd-149

MAT 6416

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

64-Gd-149



51

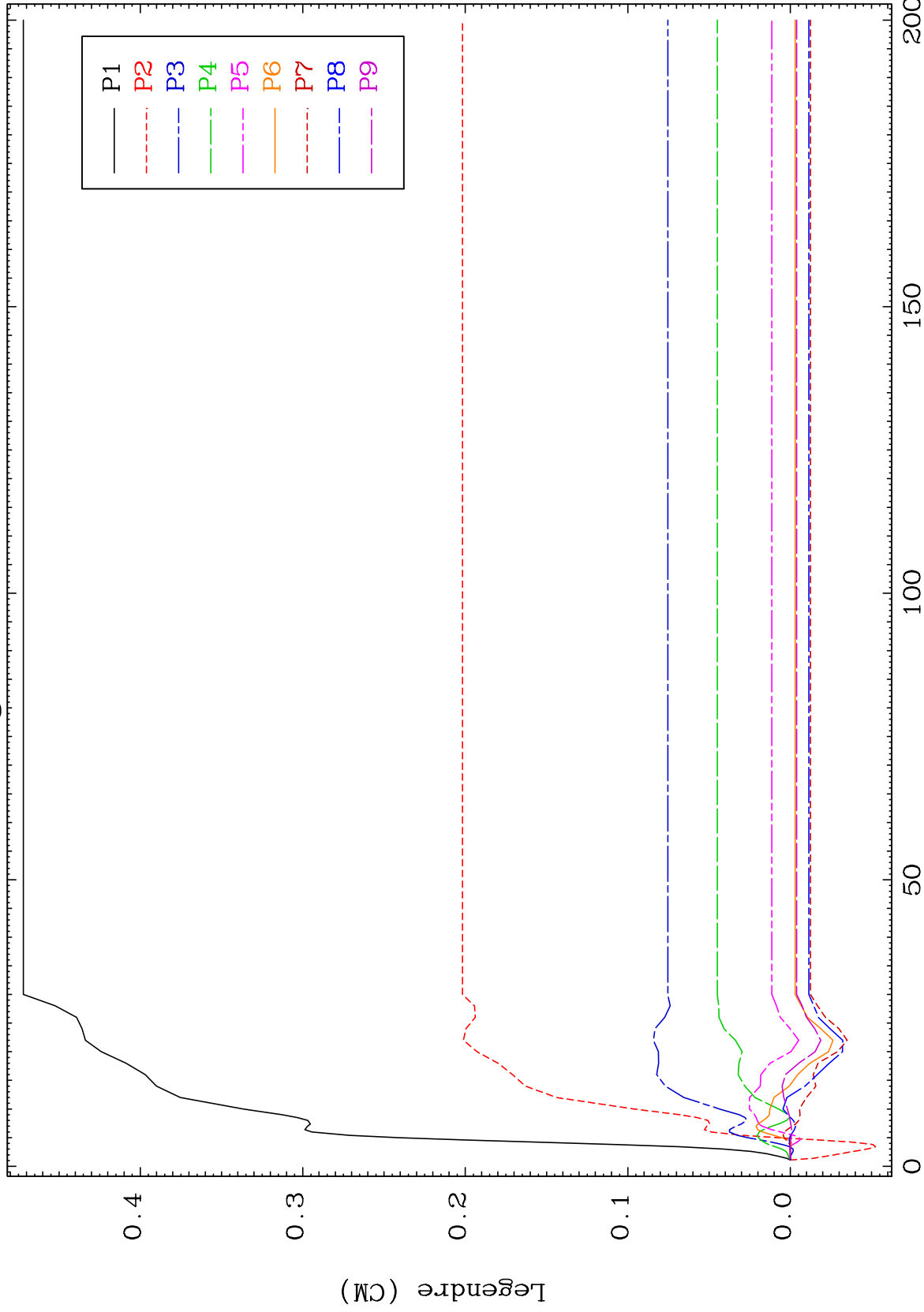
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149

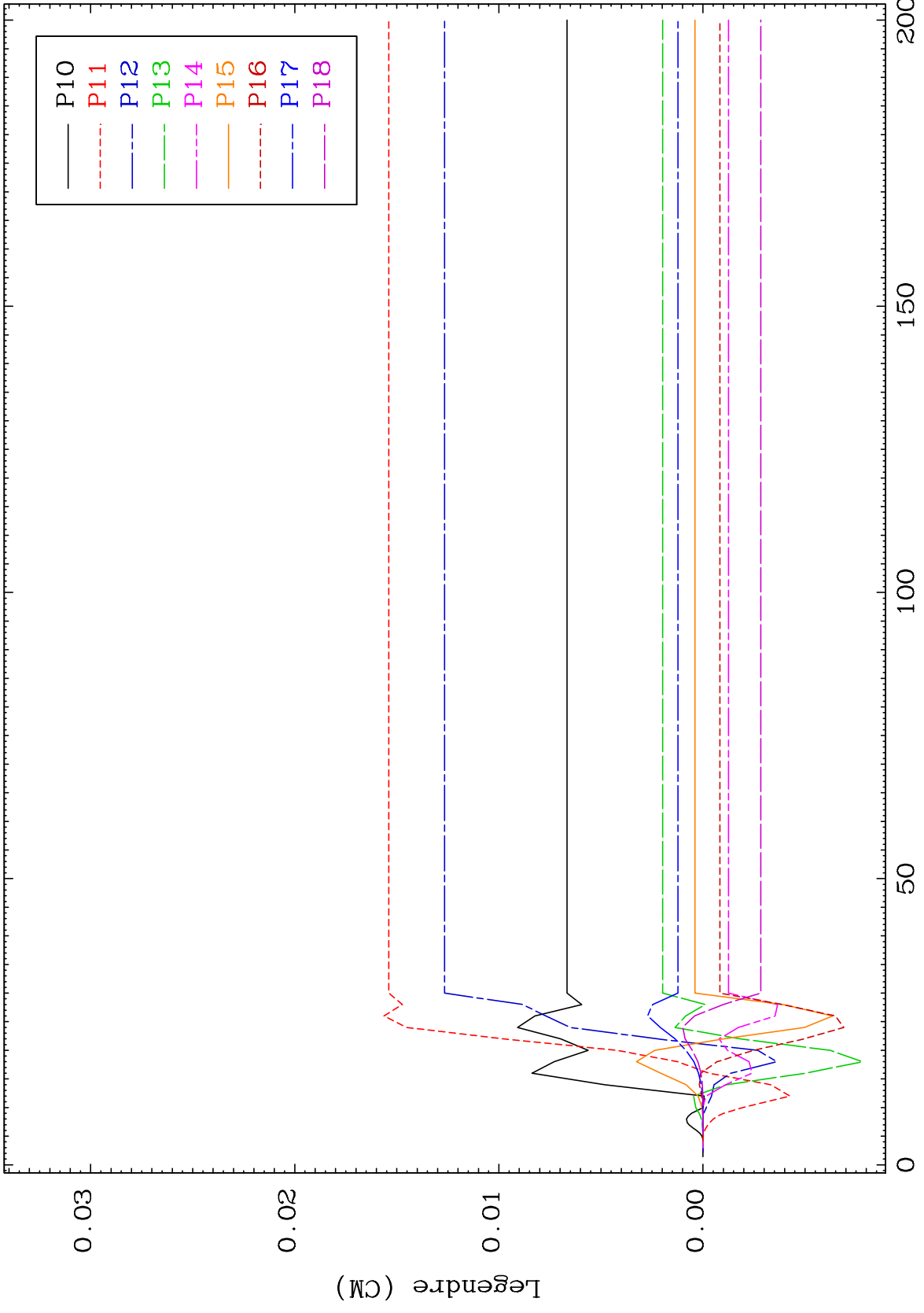


52

Incident Energy (MeV)

64-Gd-149

MAT 6416 MT= 59 (n,n') Level Legendre Coefficients 64-Gd-149

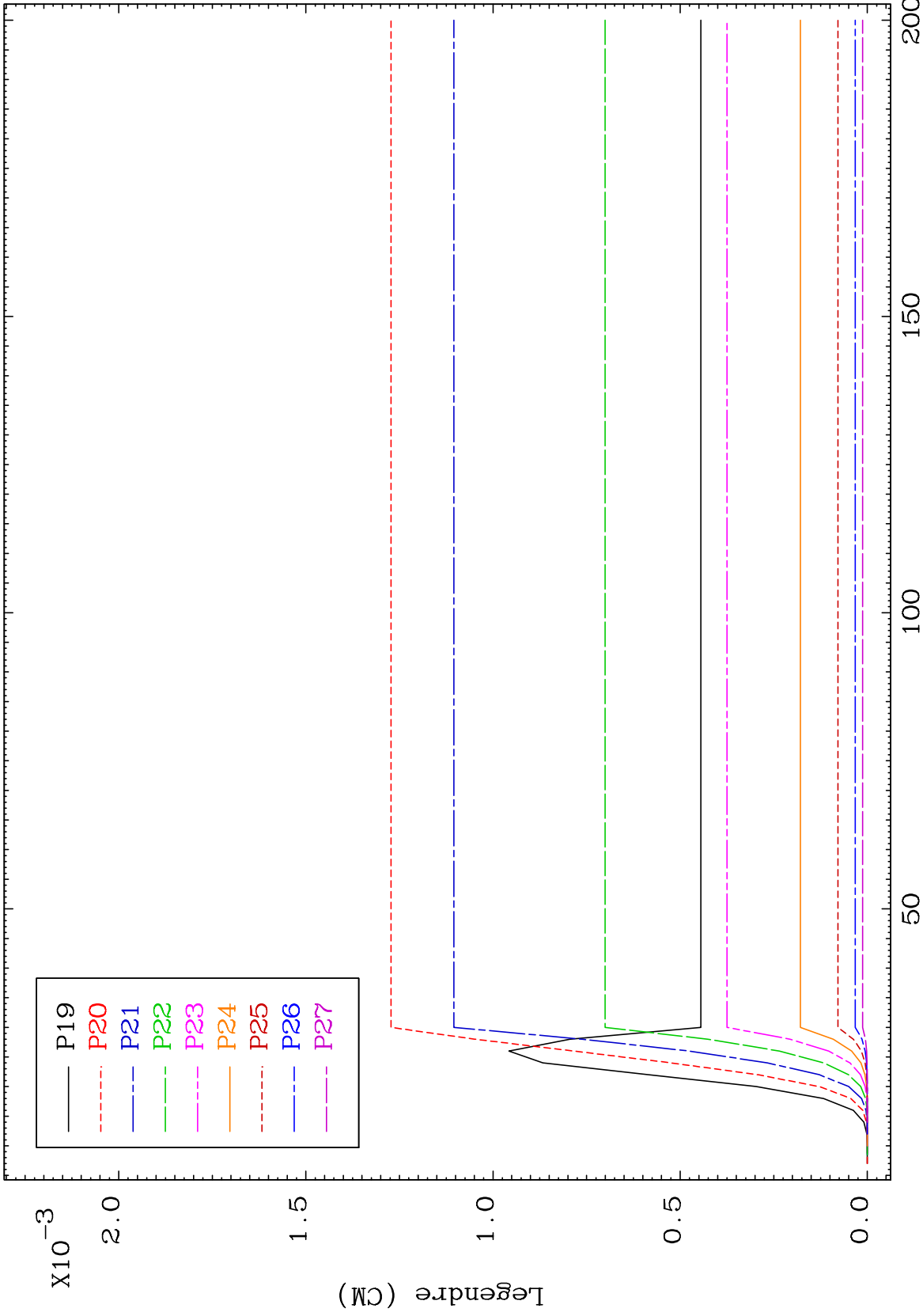


53 64-Gd-149

MAT 6416

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

64-Gd-149



54

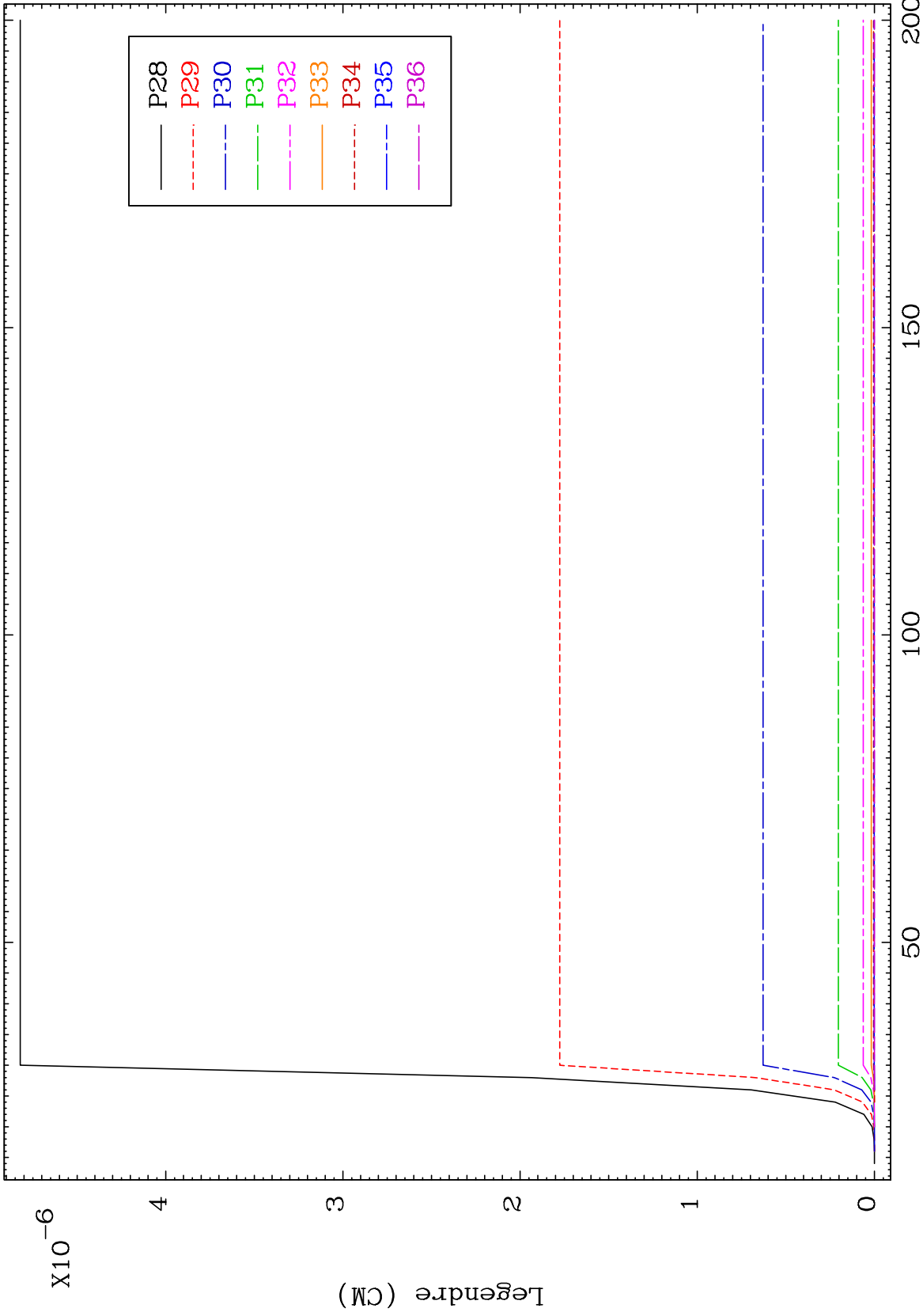
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149



55

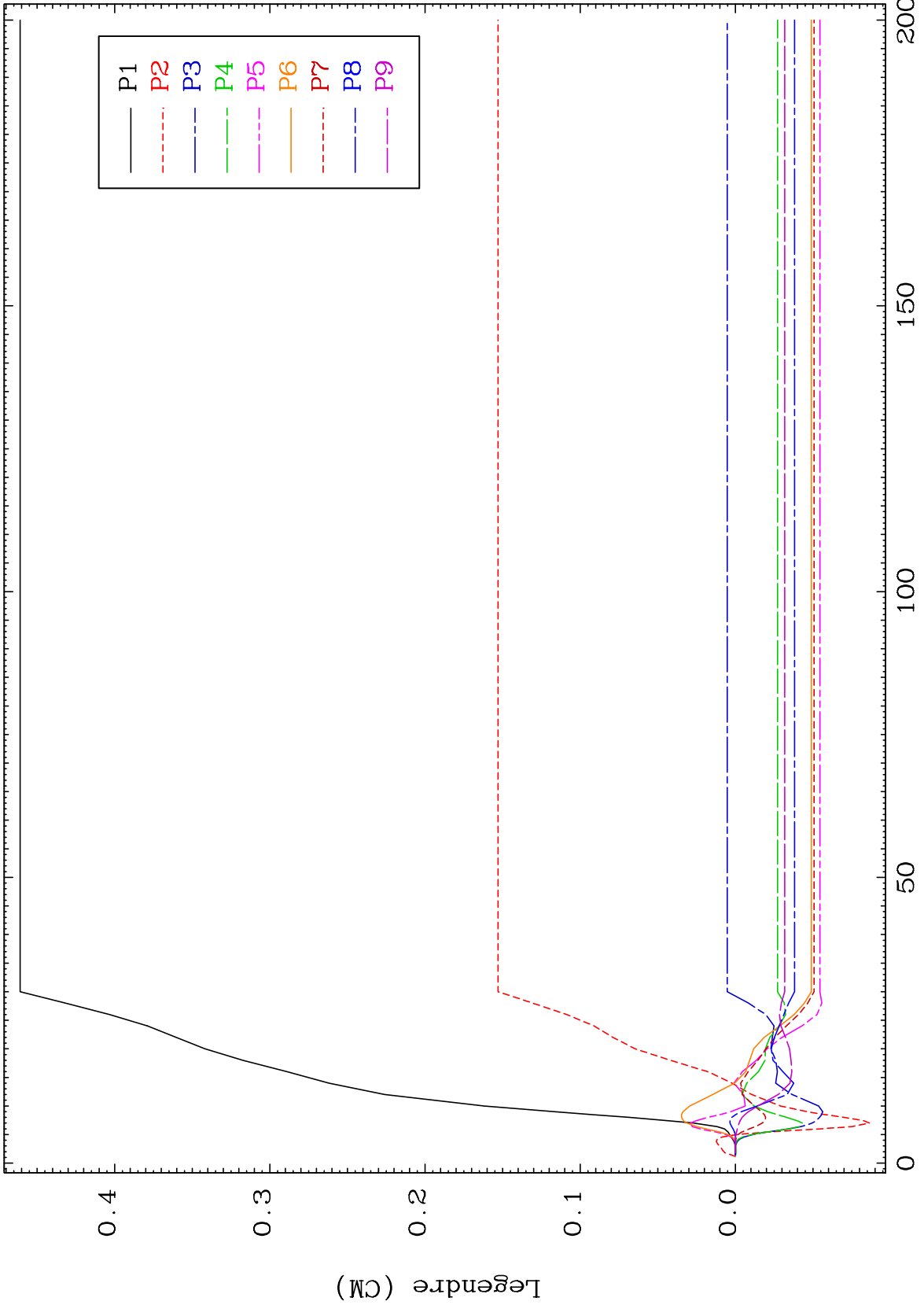
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149



56

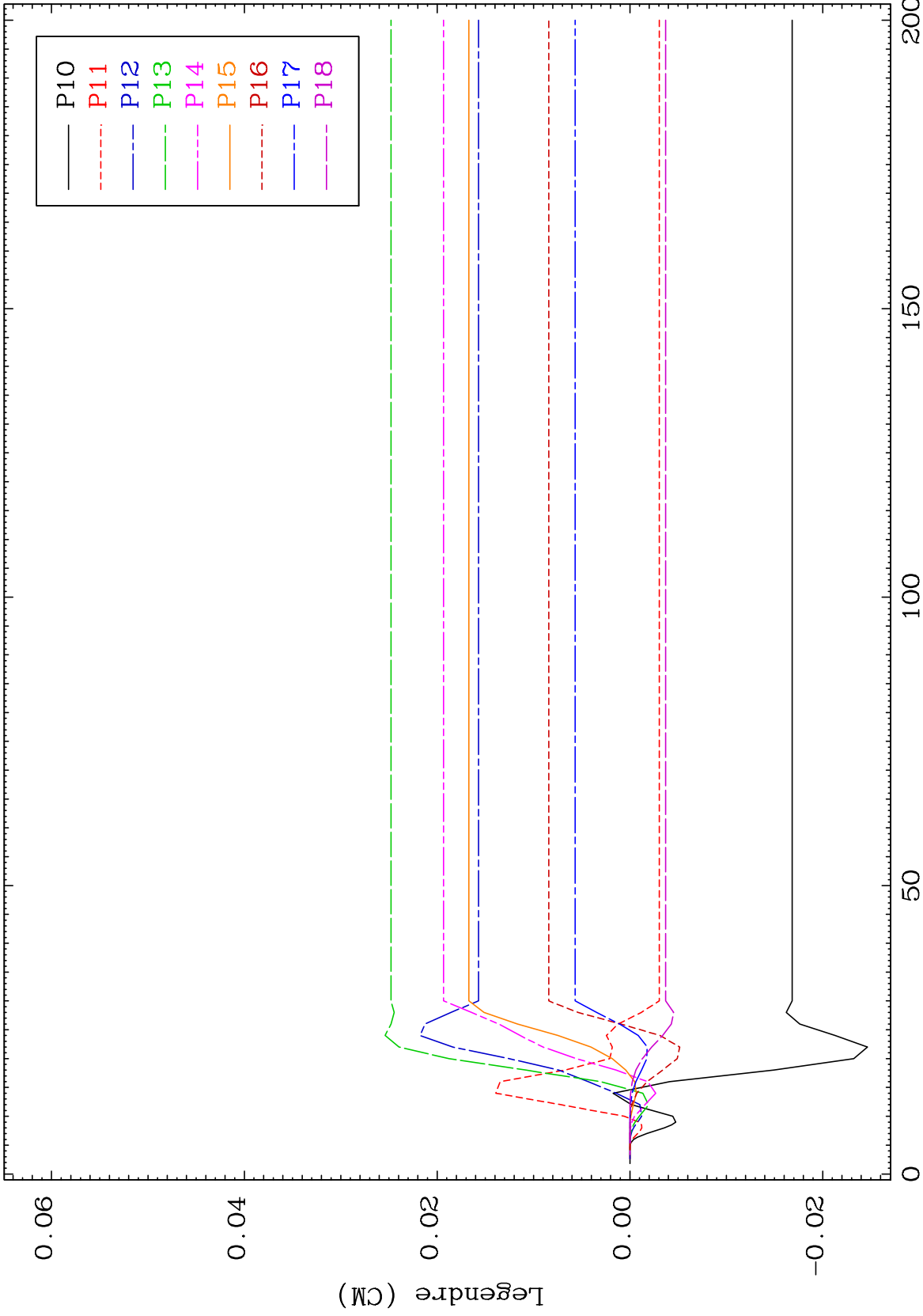
64-Gd-149

64-Gd-149

MAT 6416

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

64-Gd-149



57

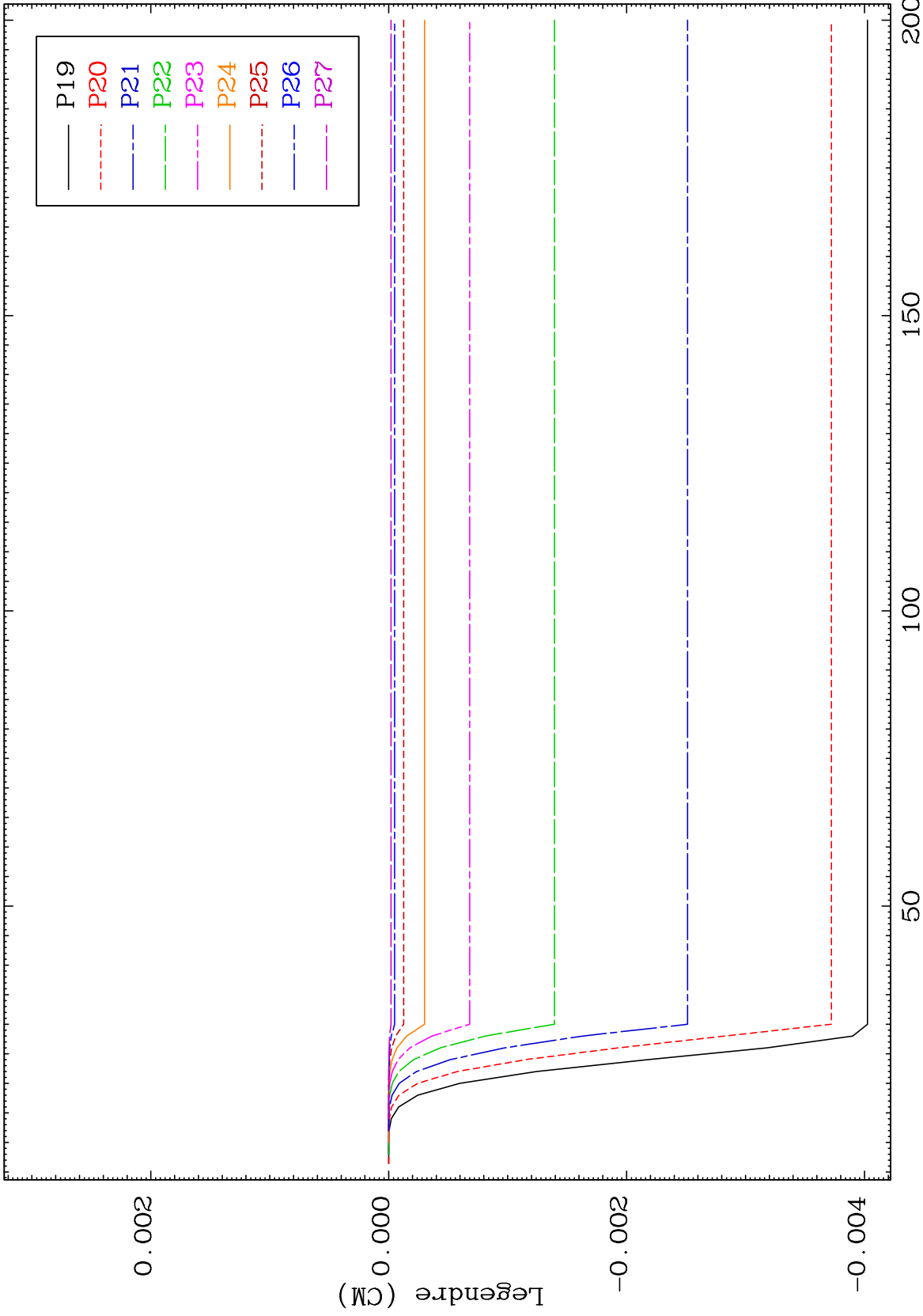
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149



58

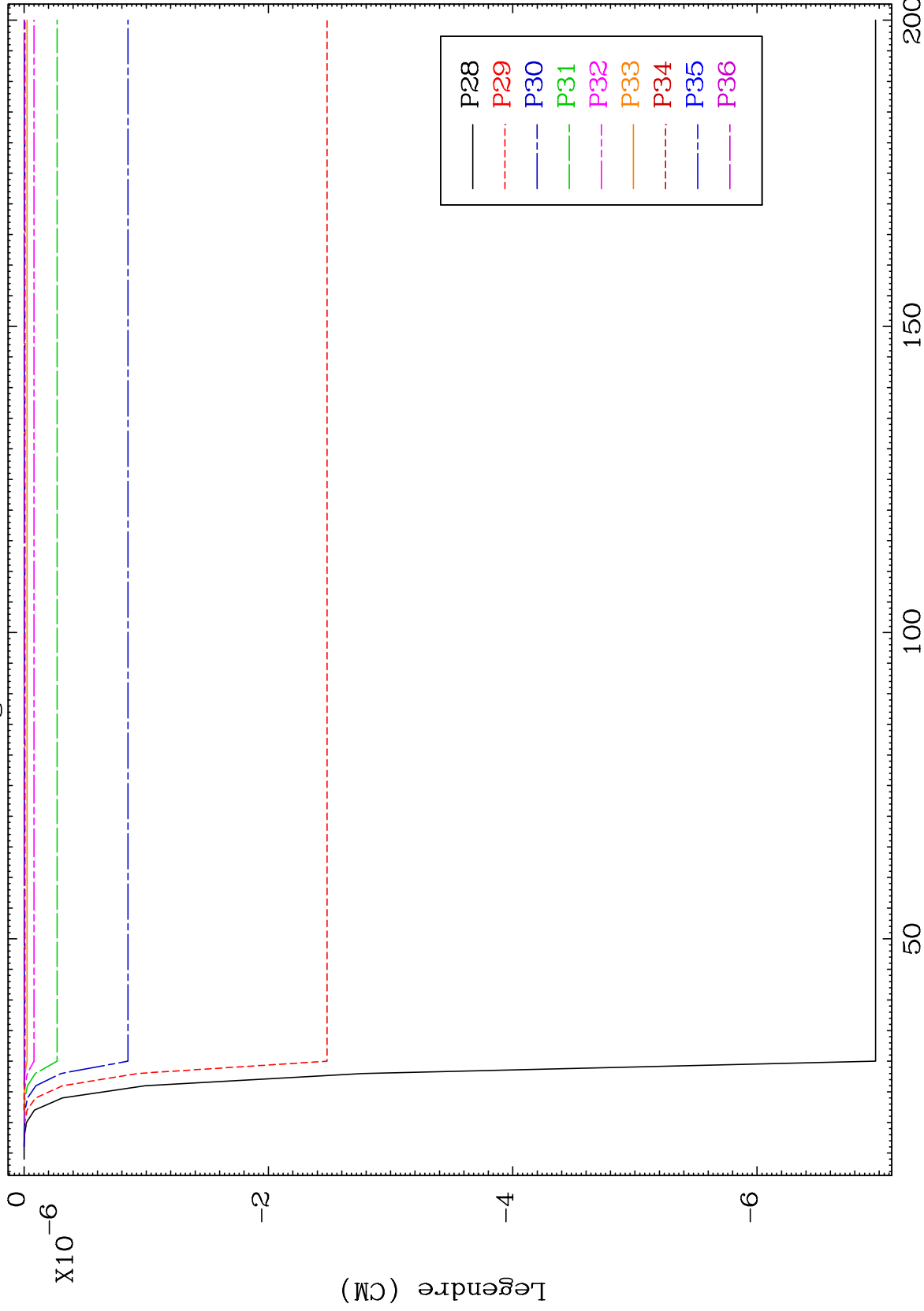
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149

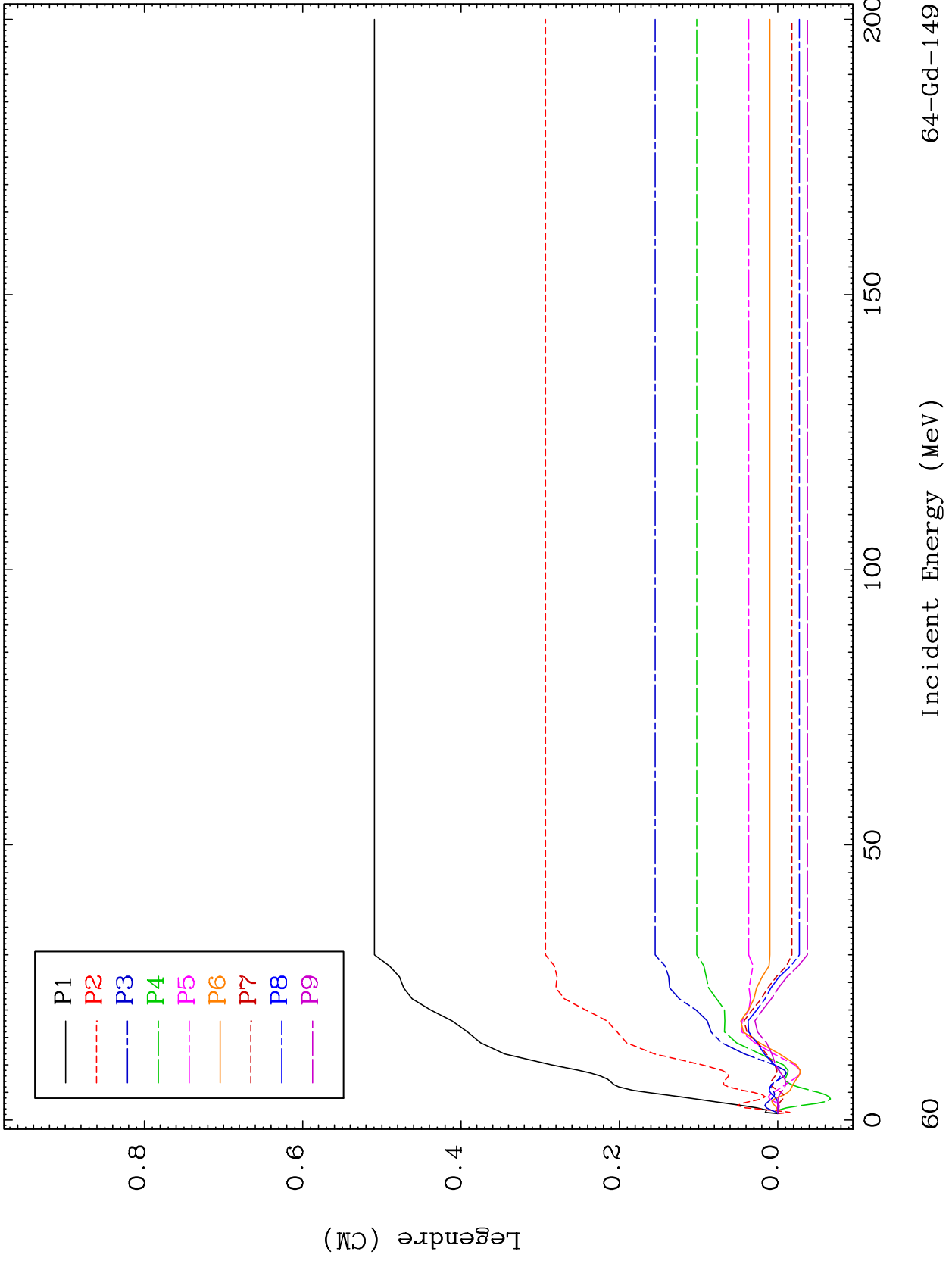


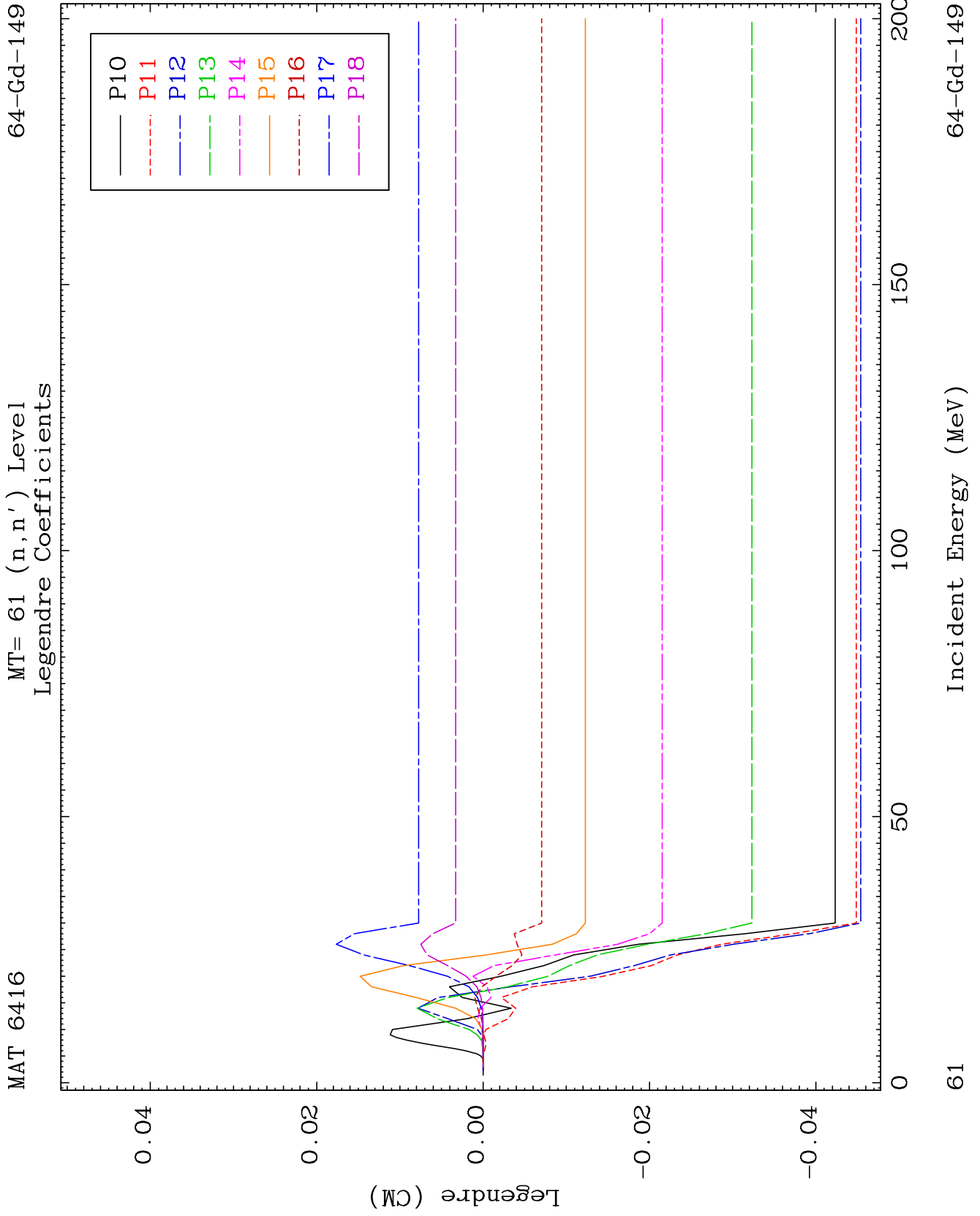
64-Gd-149

Incident Energy (MeV)

59

MAT 6416 MT= 61 (n,n') Level Legendre Coefficients 64-Gd-149

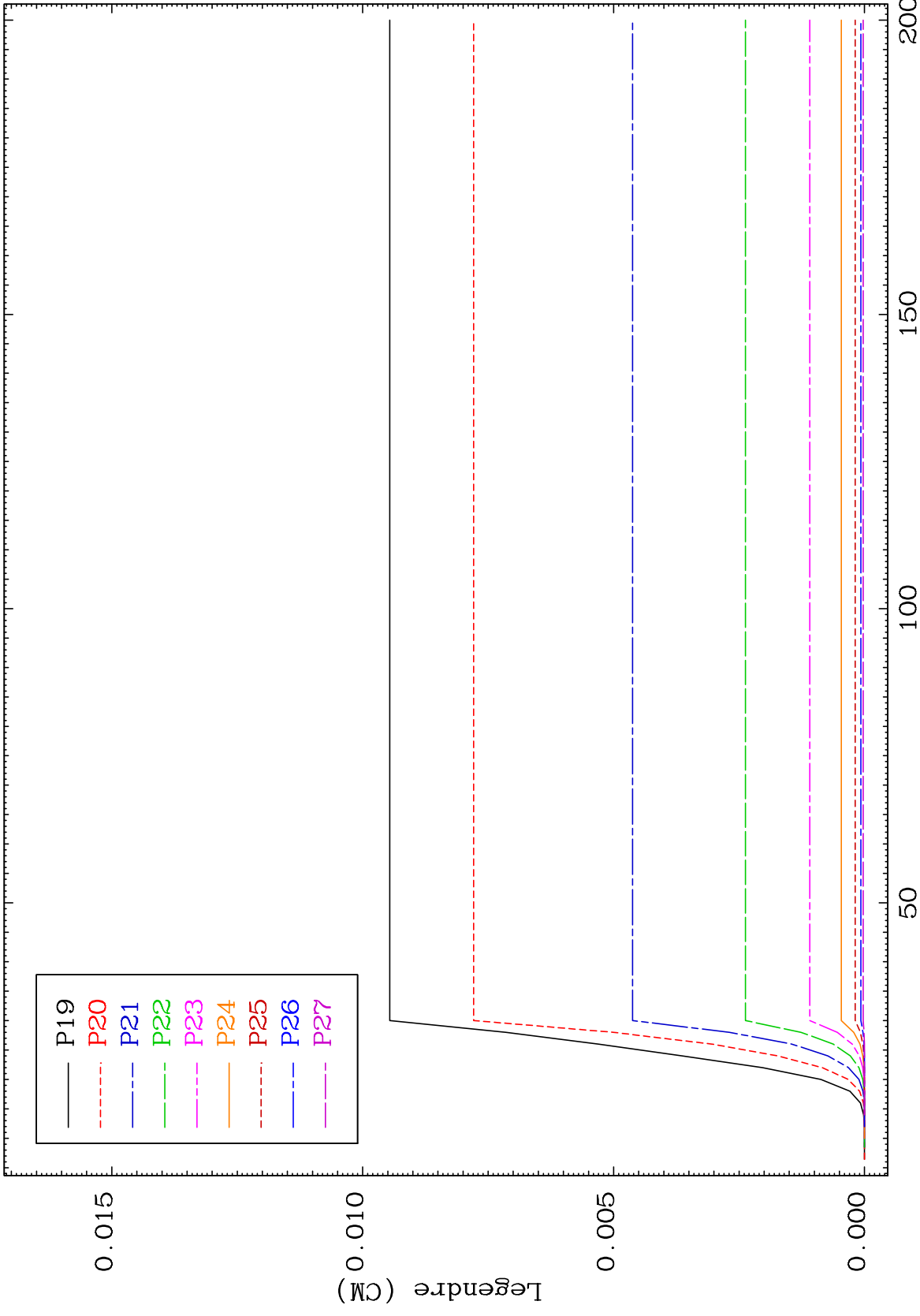




MAT 6416

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

64-Gd-149



62

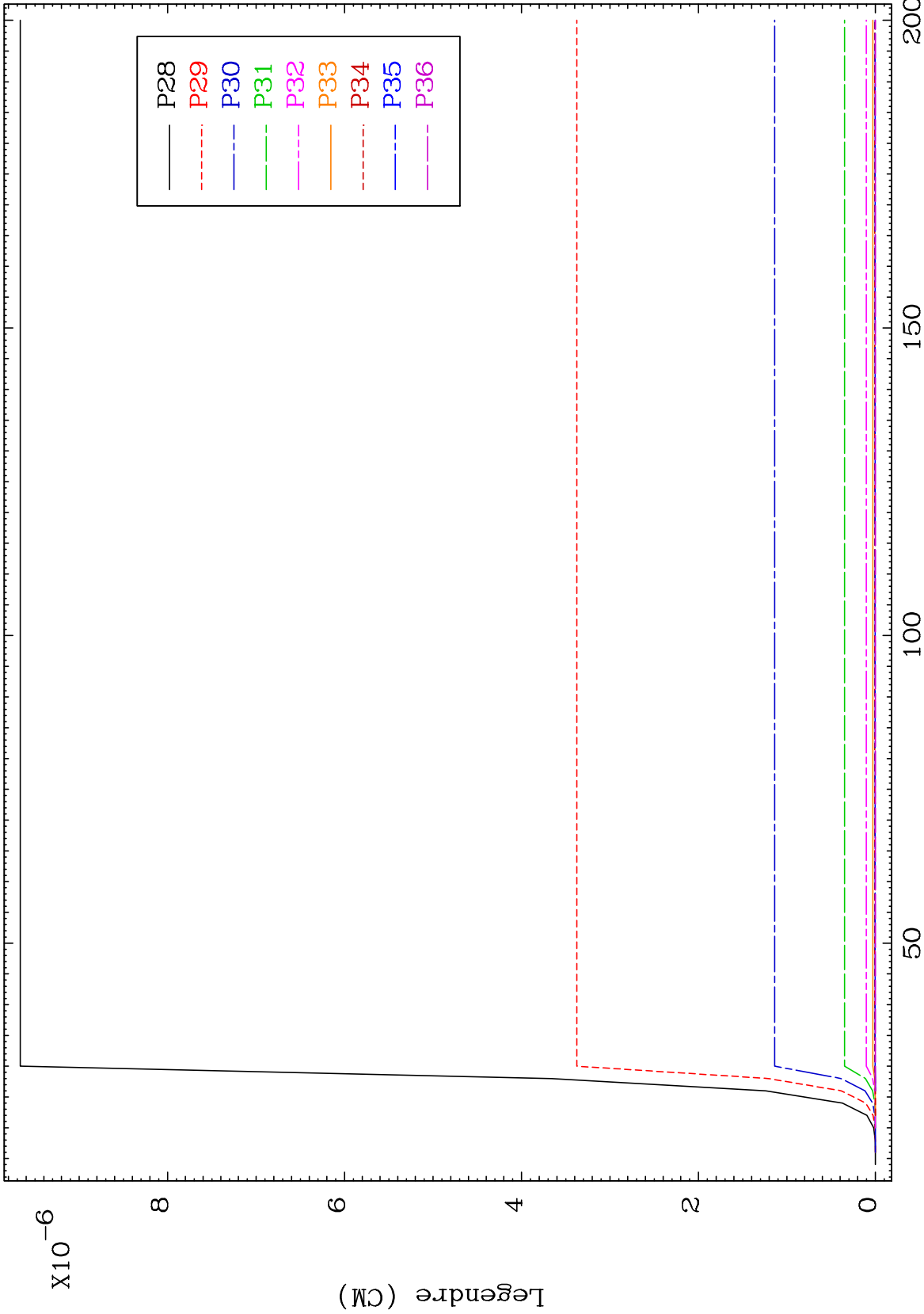
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149



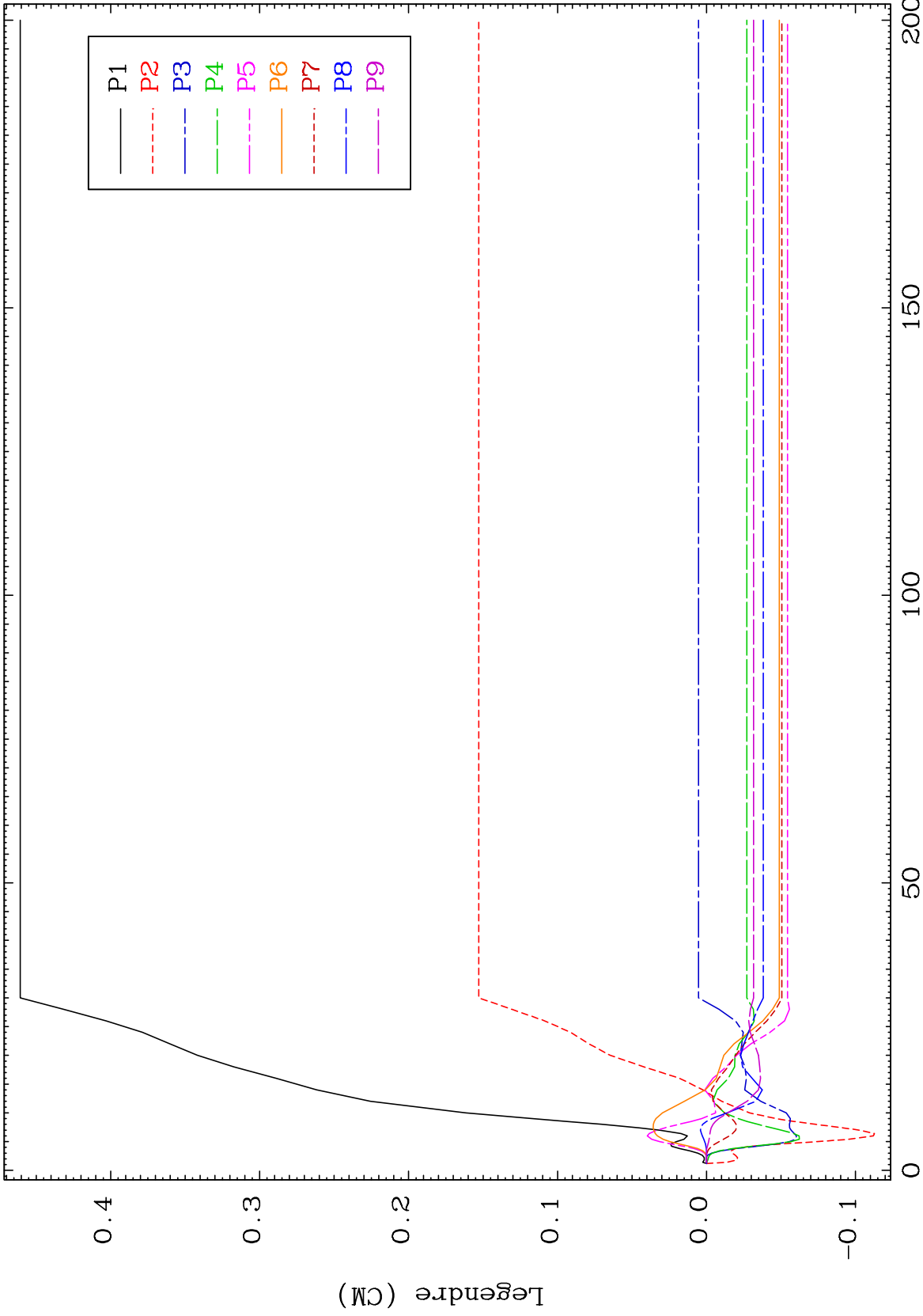
63

64-Gd-149

MAT 6416

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

64-Gd-149



64

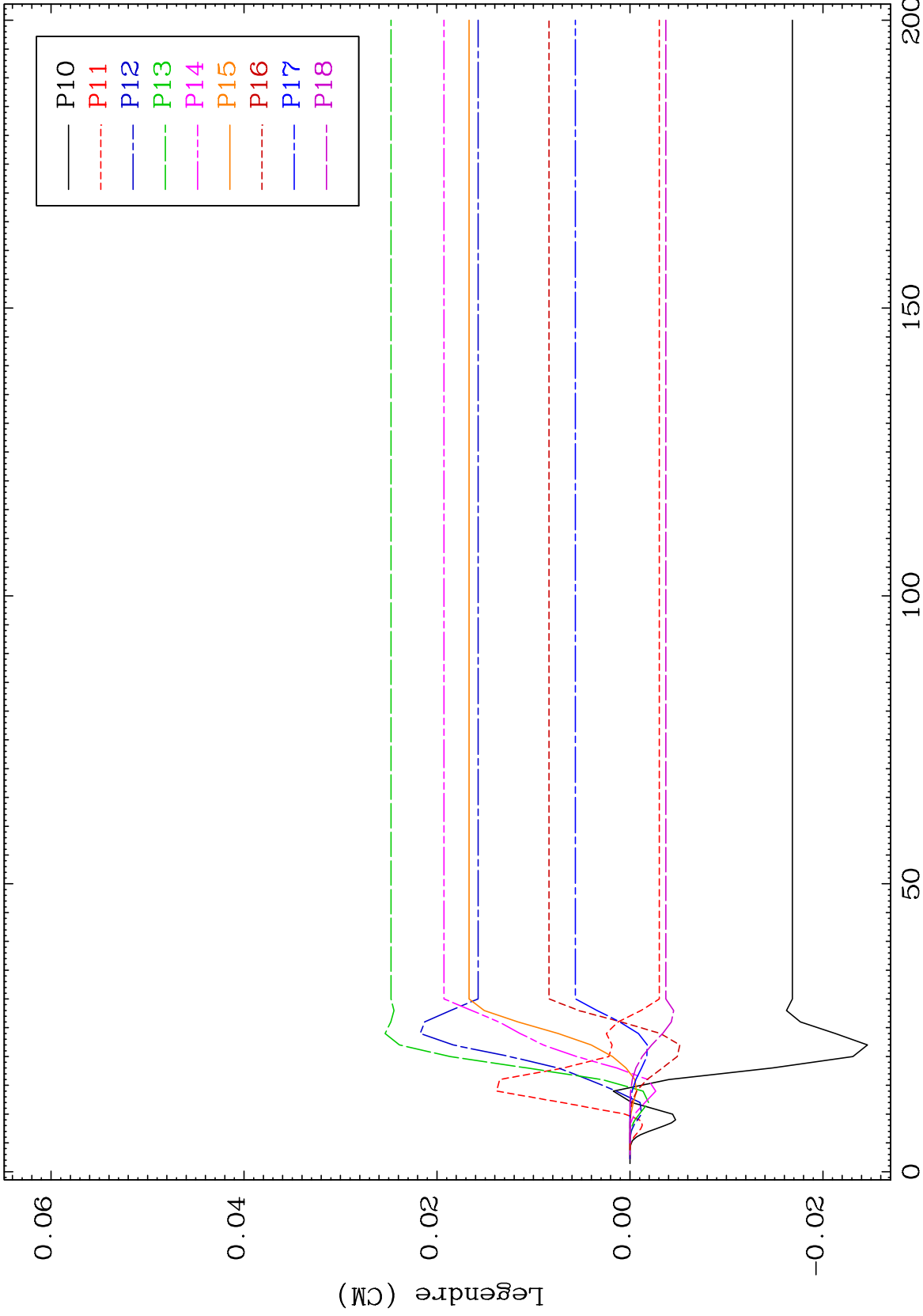
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149



65

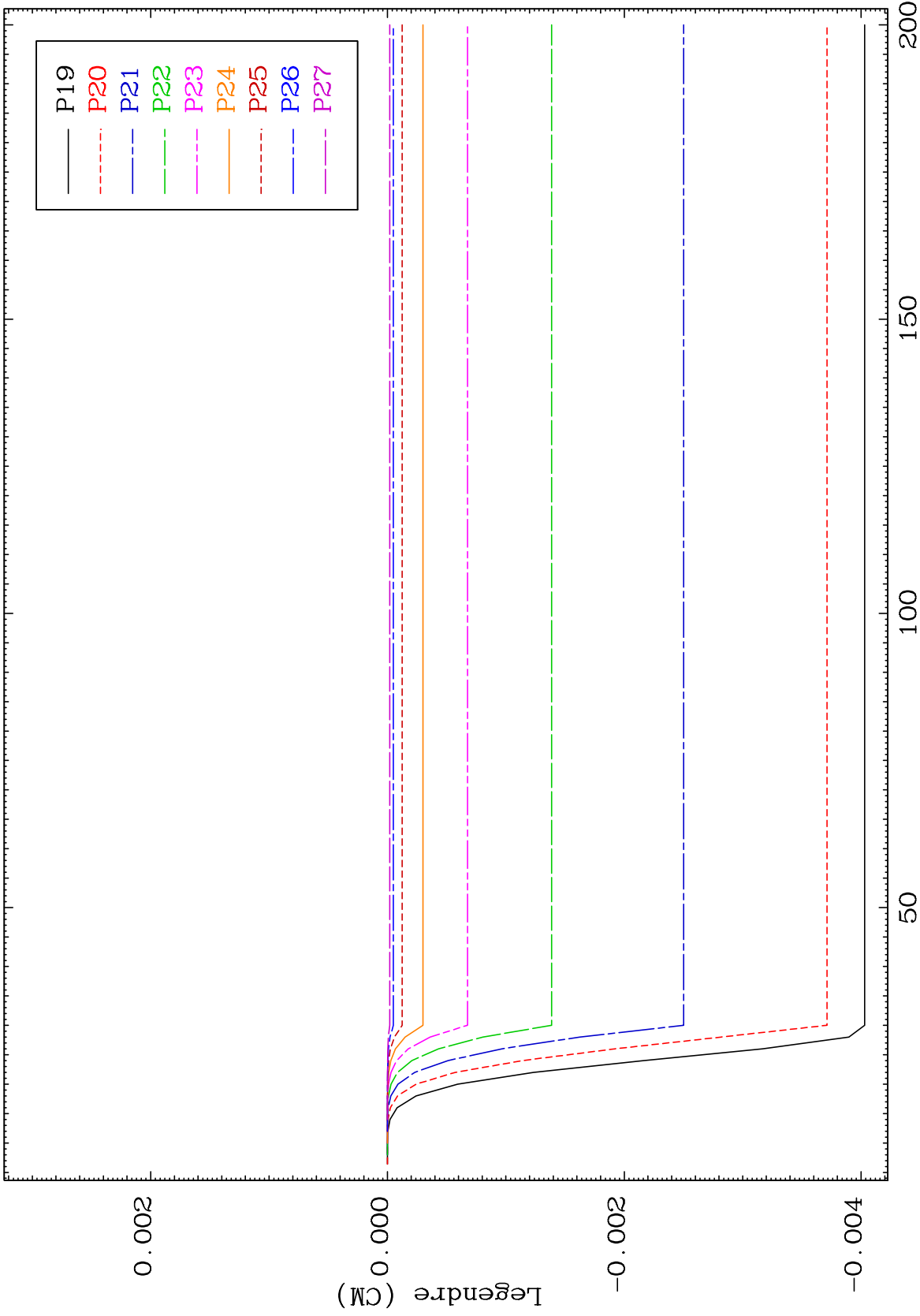
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149



66

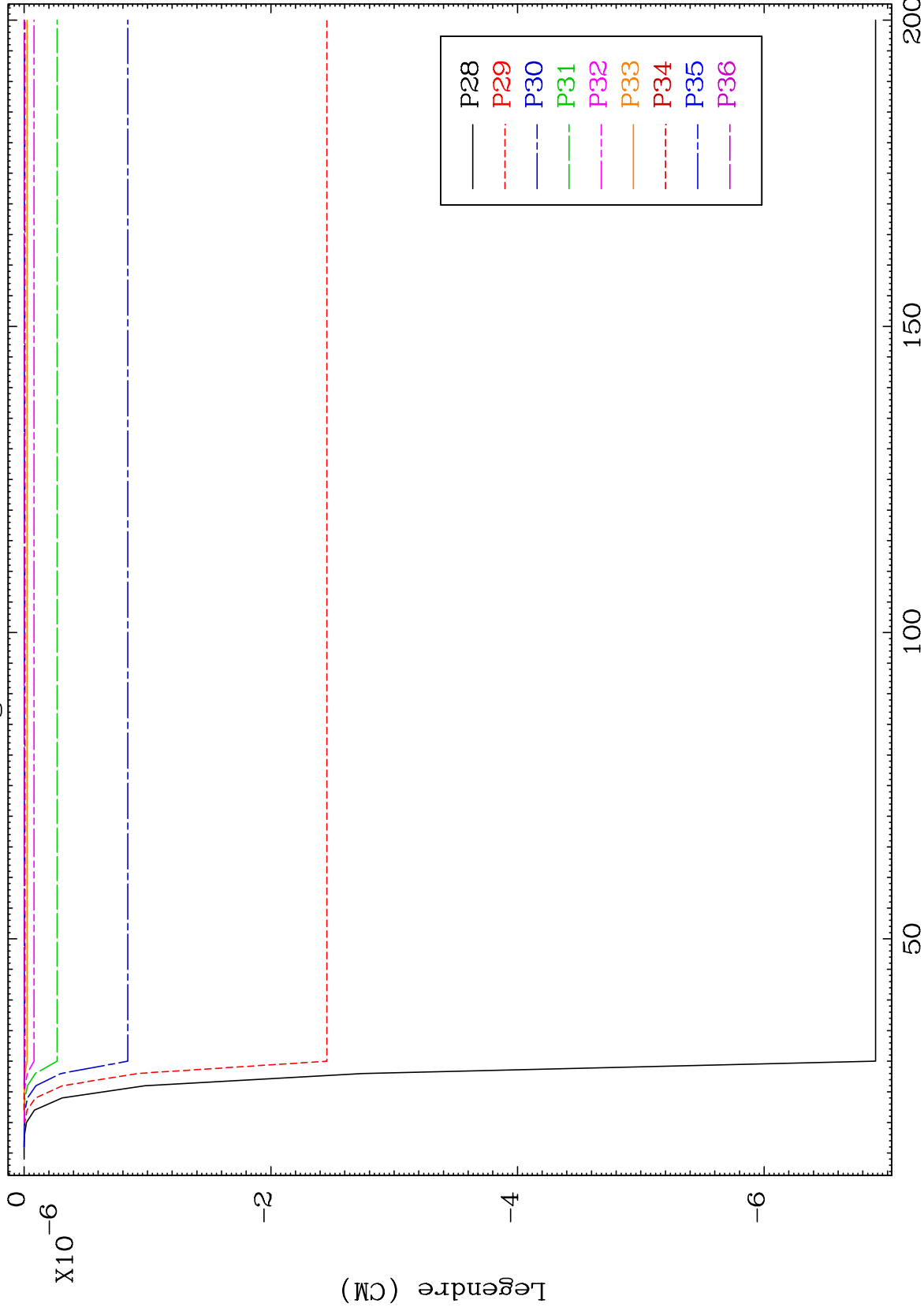
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149



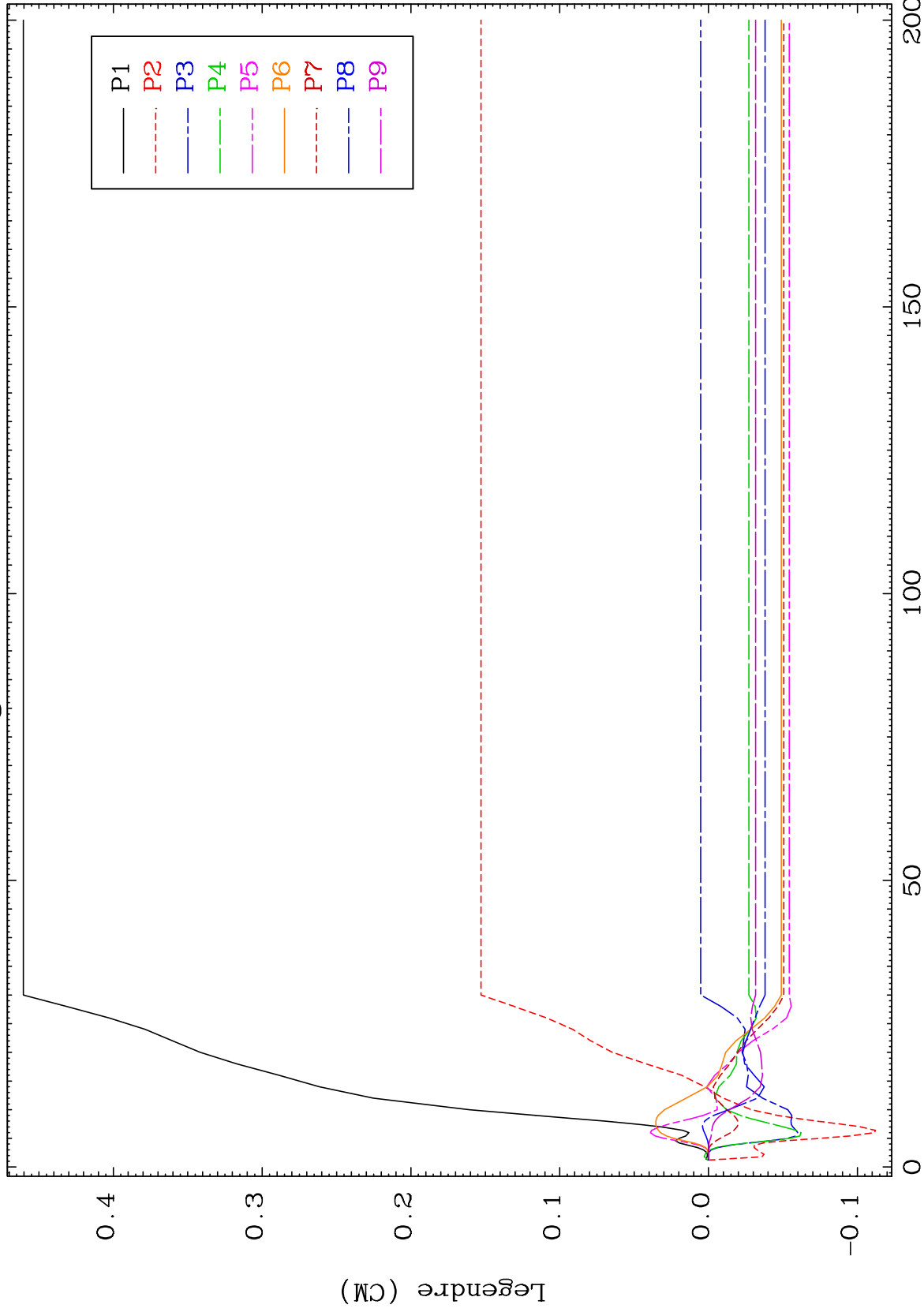
64-Gd-149

67

MAT 6416

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

64-Gd-149



68

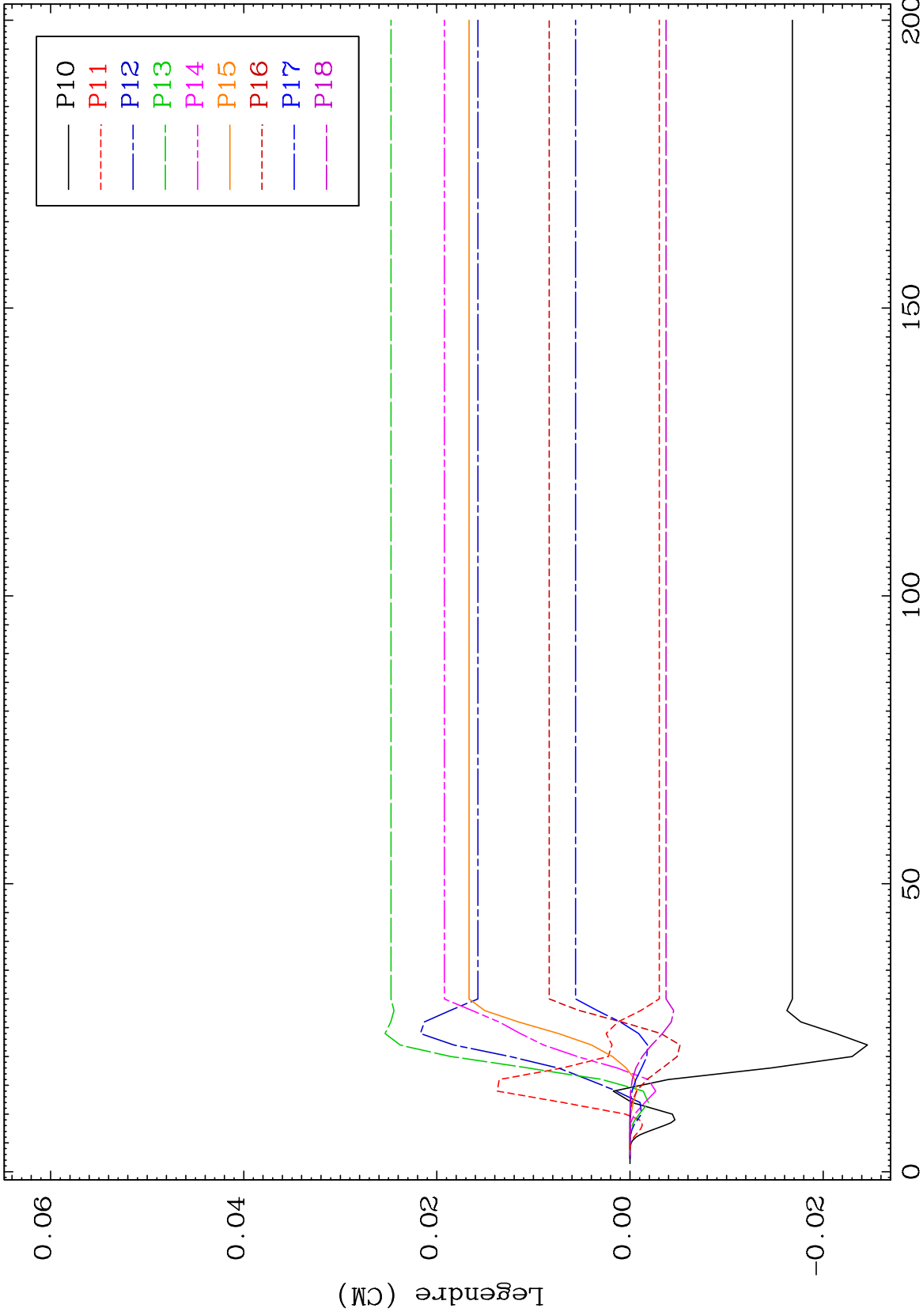
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149



69

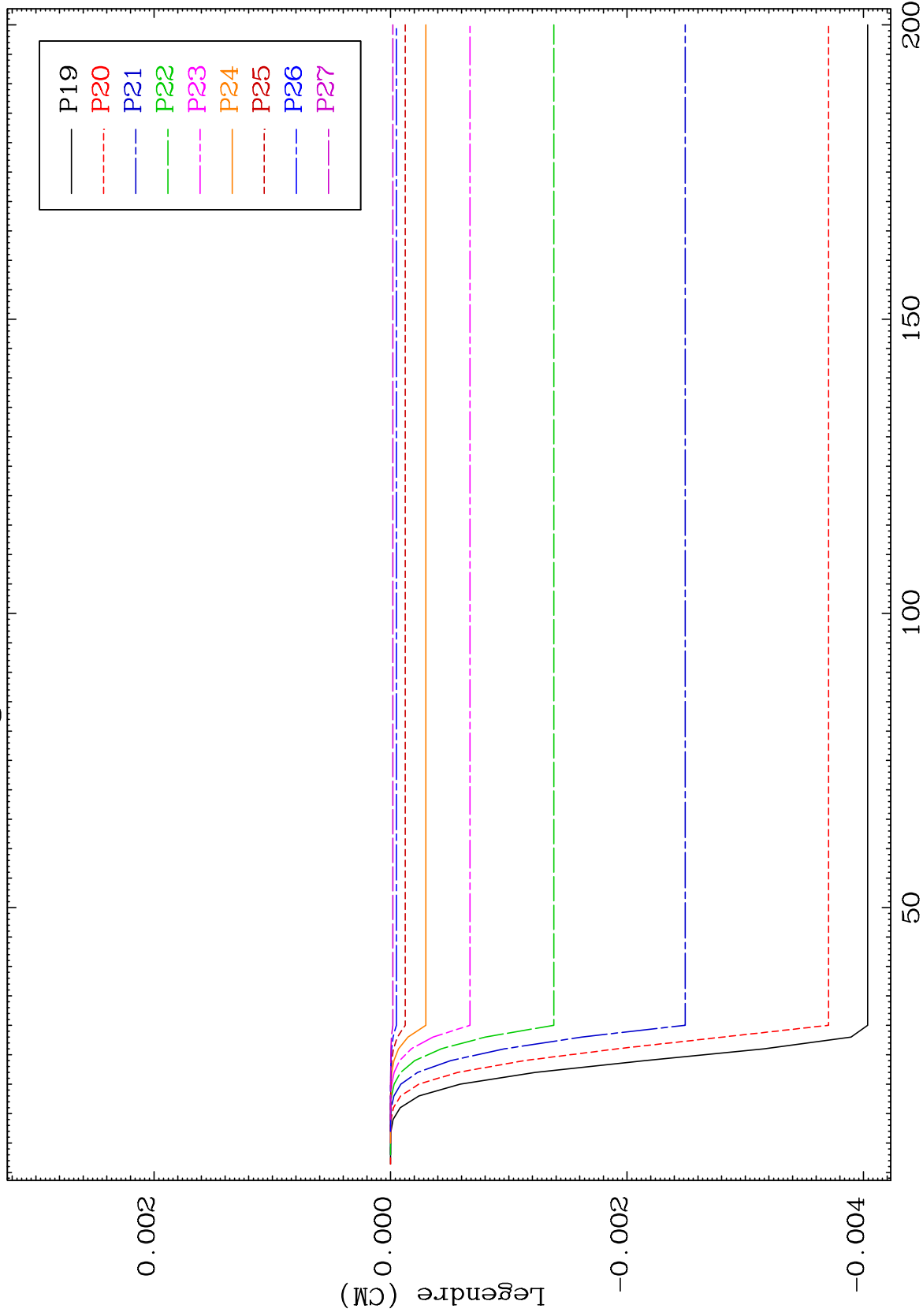
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149



70

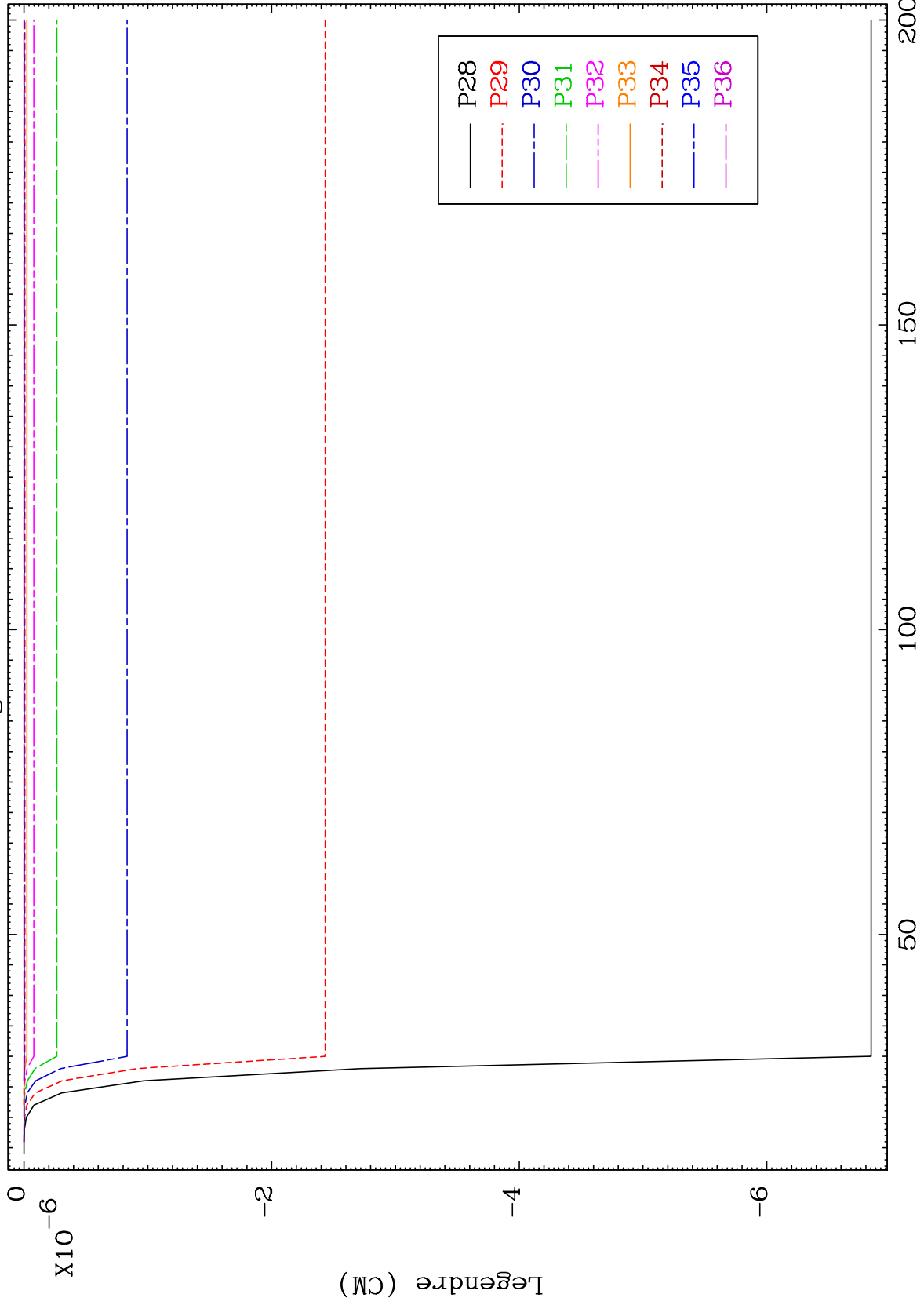
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149



64-Gd-149

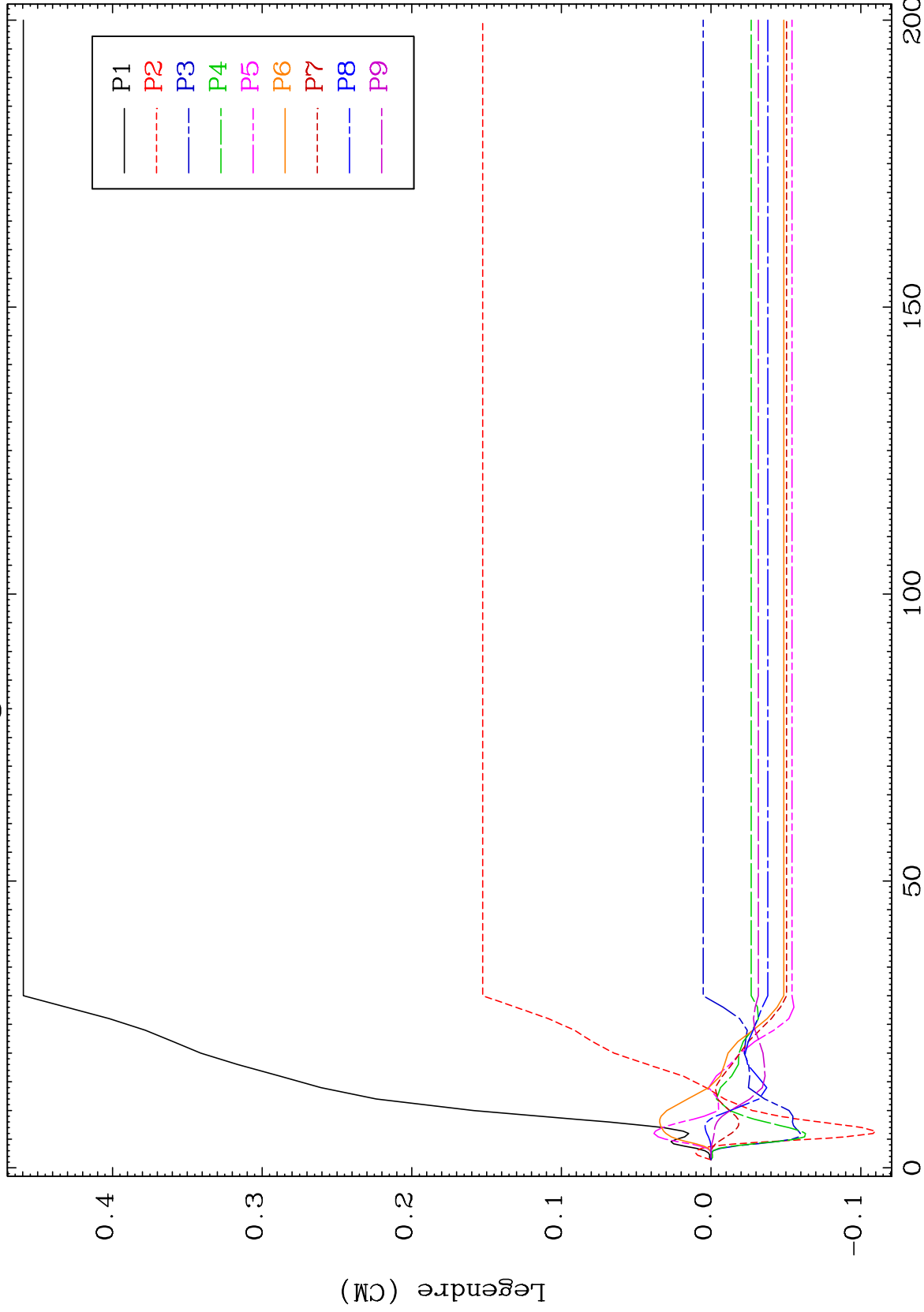
Incident Energy (MeV)

71

MAT 6416

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

64-Gd-149



72

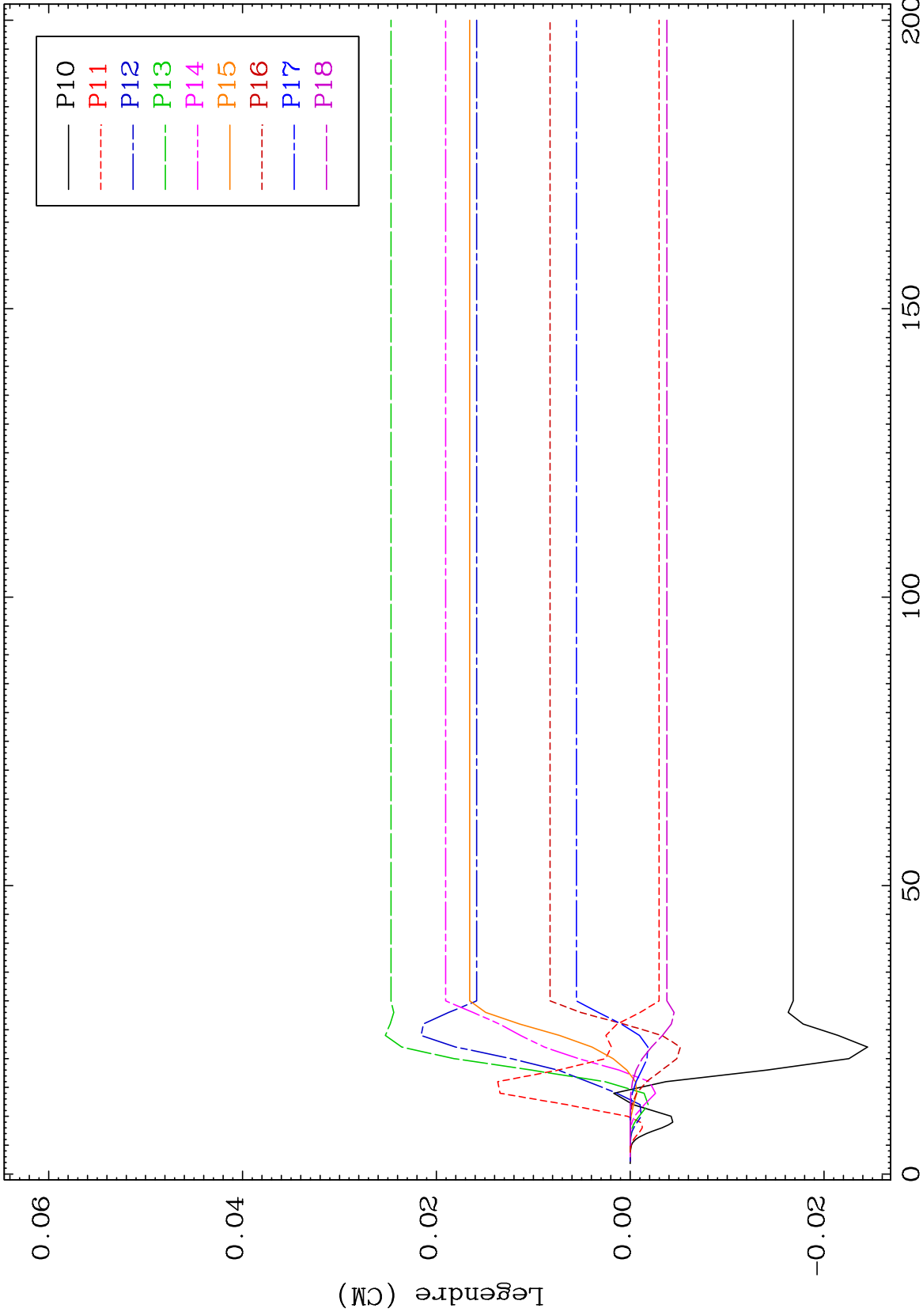
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149



73

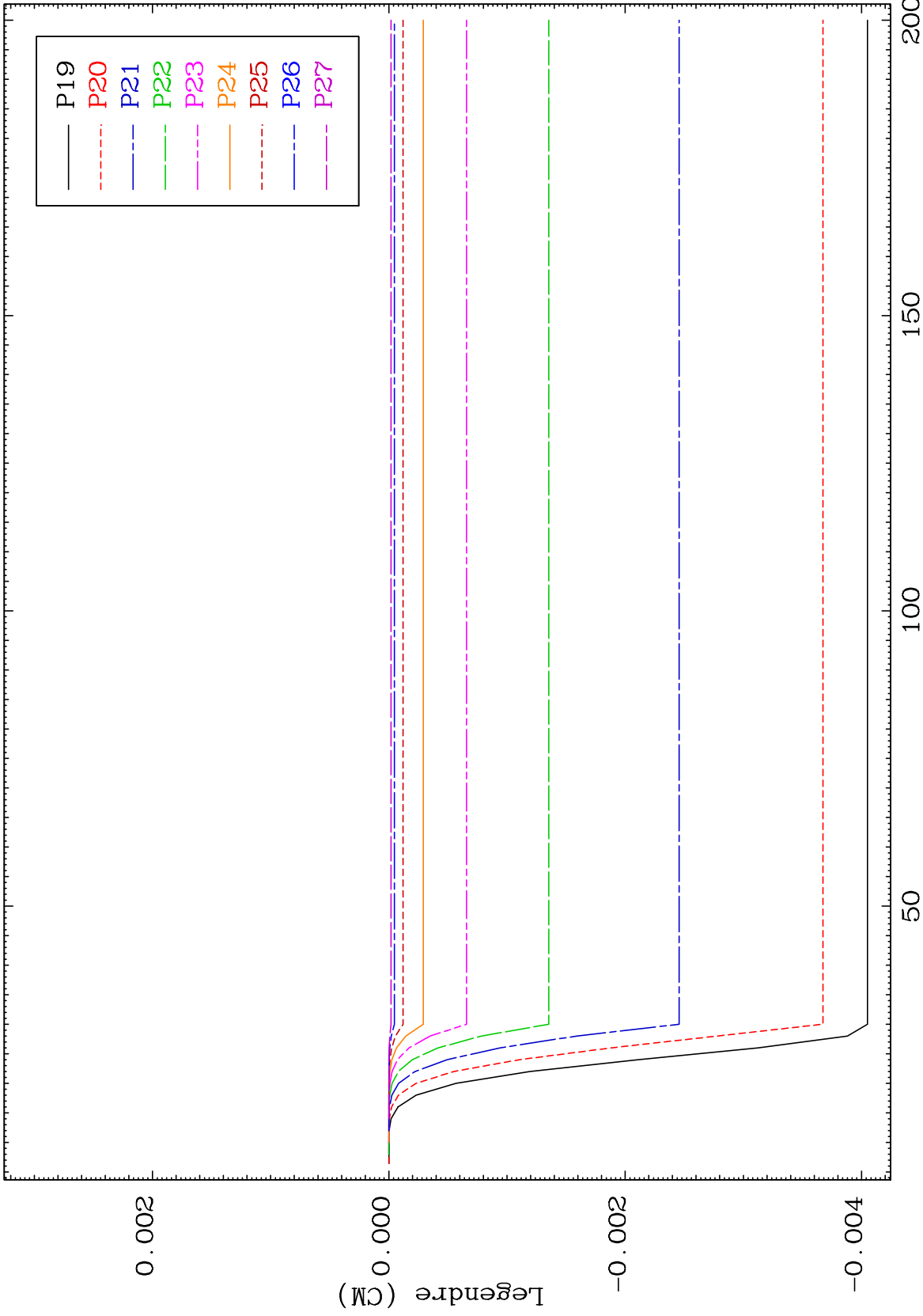
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149



74

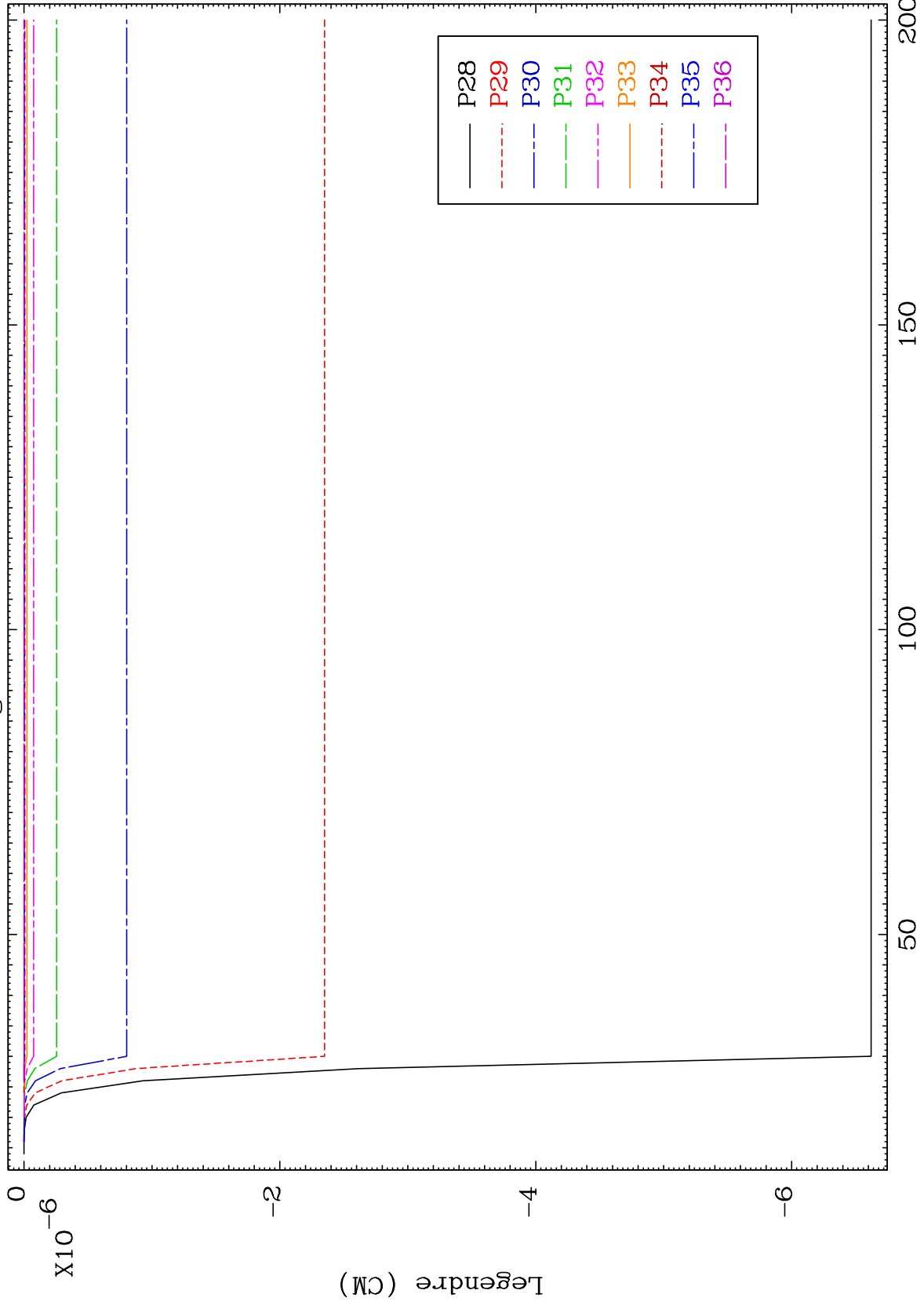
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149



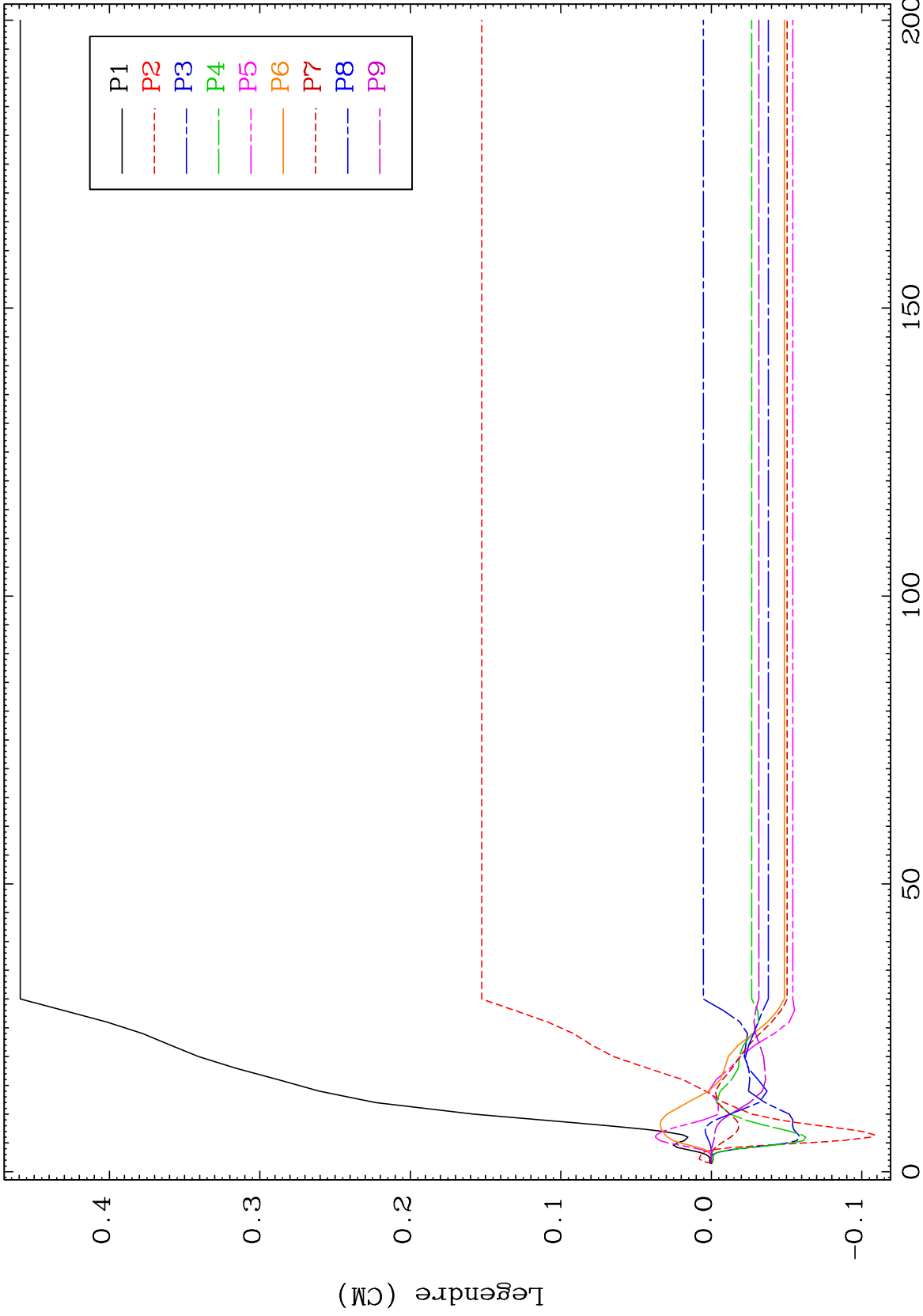
64-Gd-149

75

MAT 6416

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

64-Gd-149



76

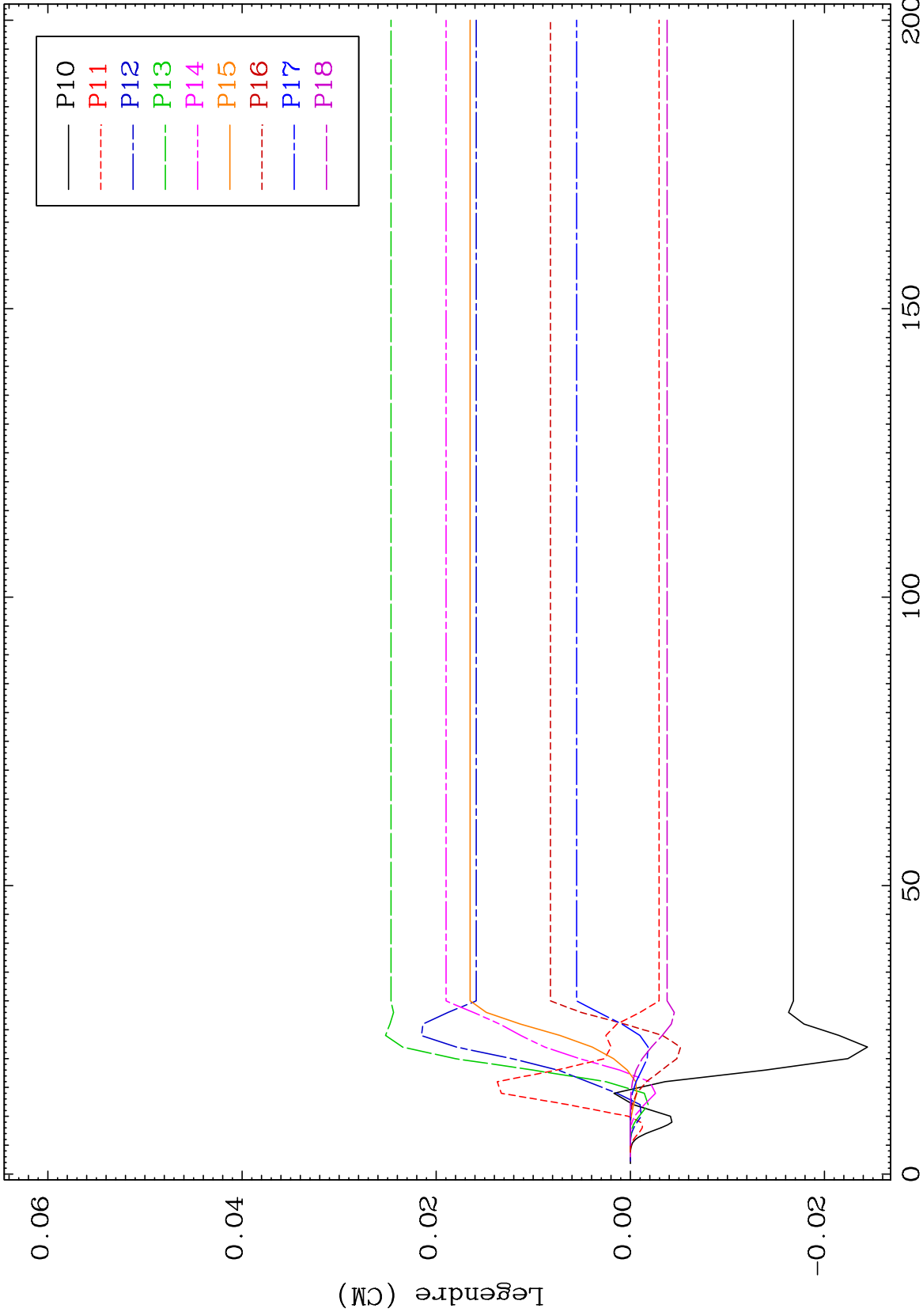
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149



77

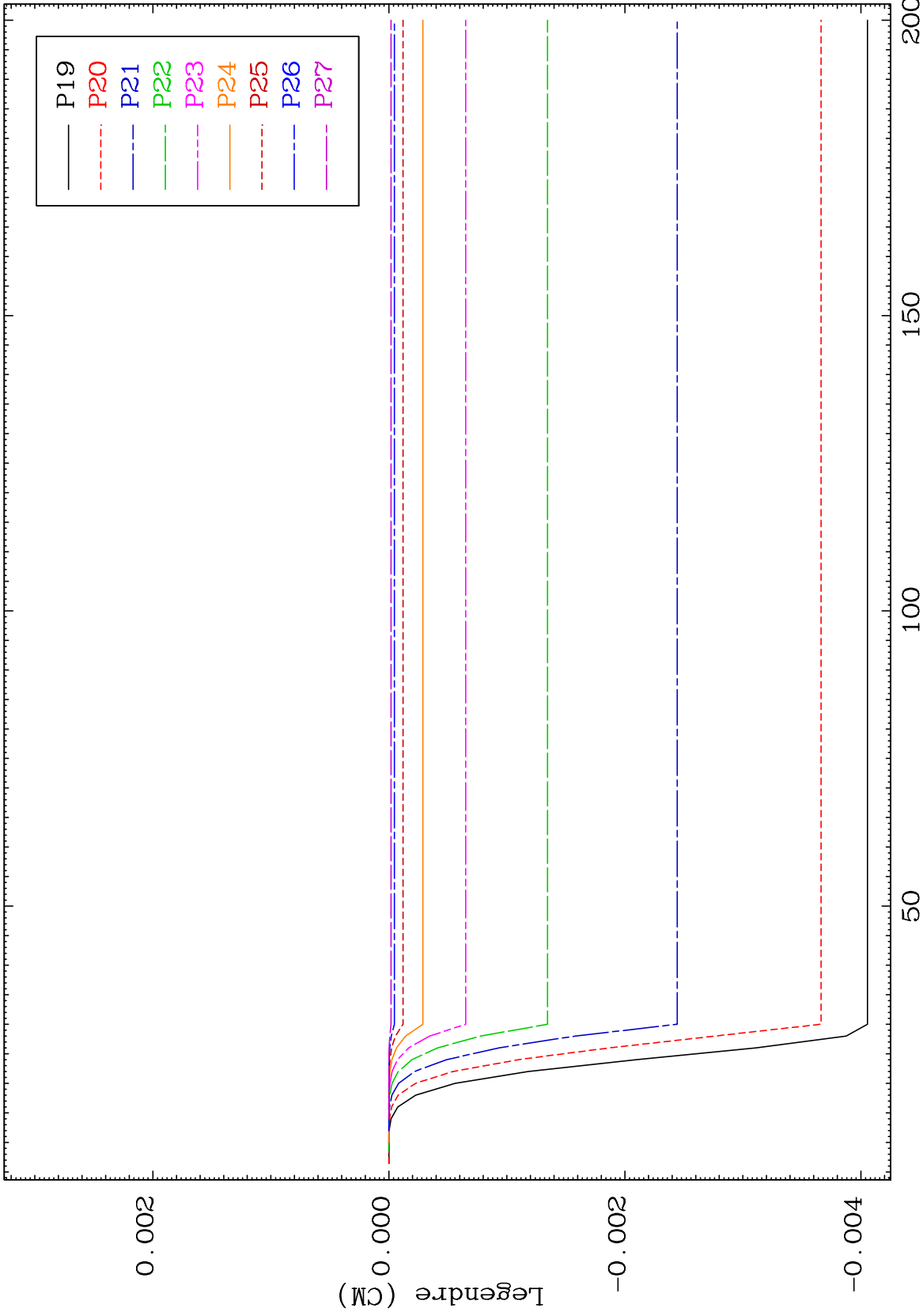
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149



78

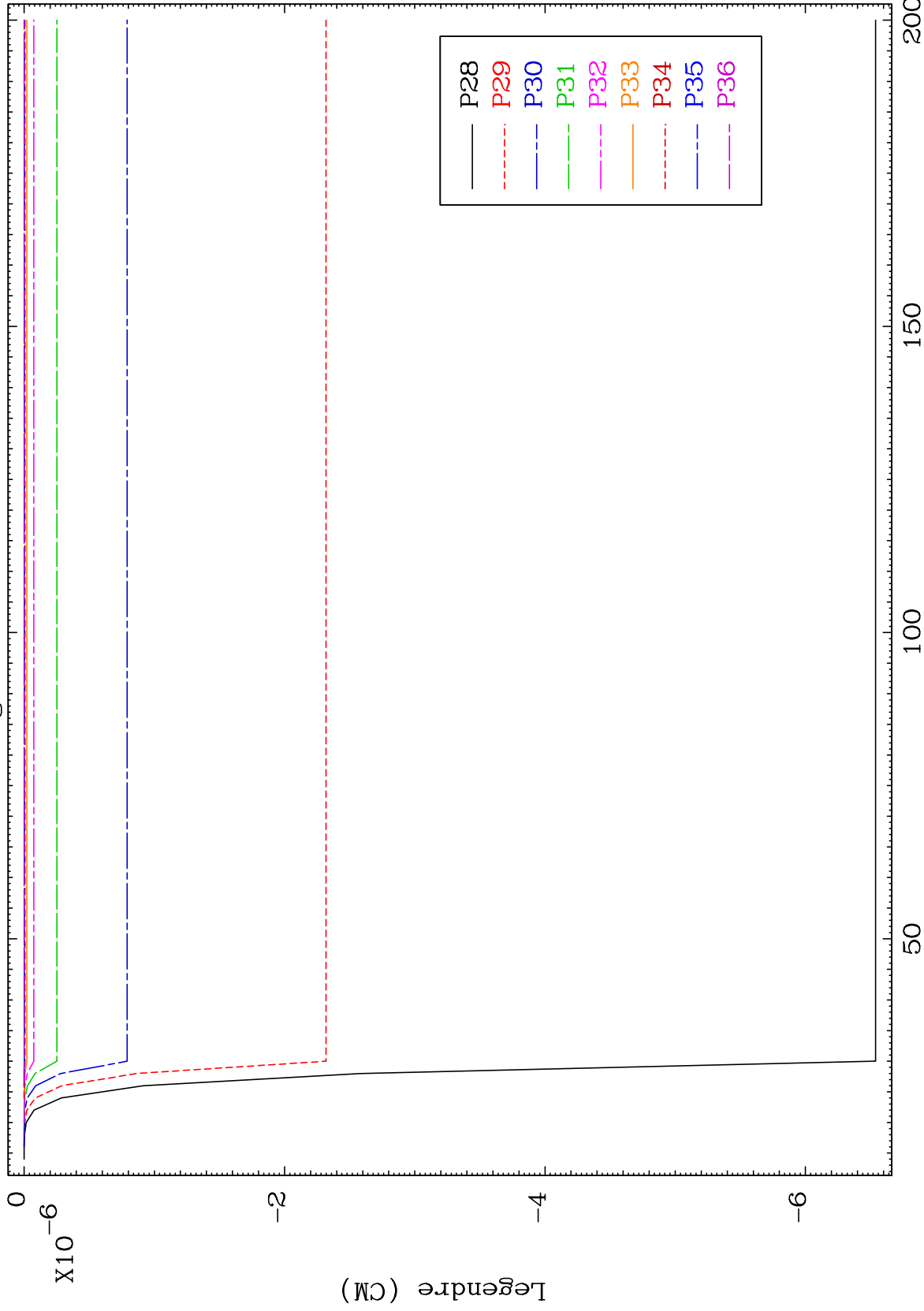
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149



64-Gd-149

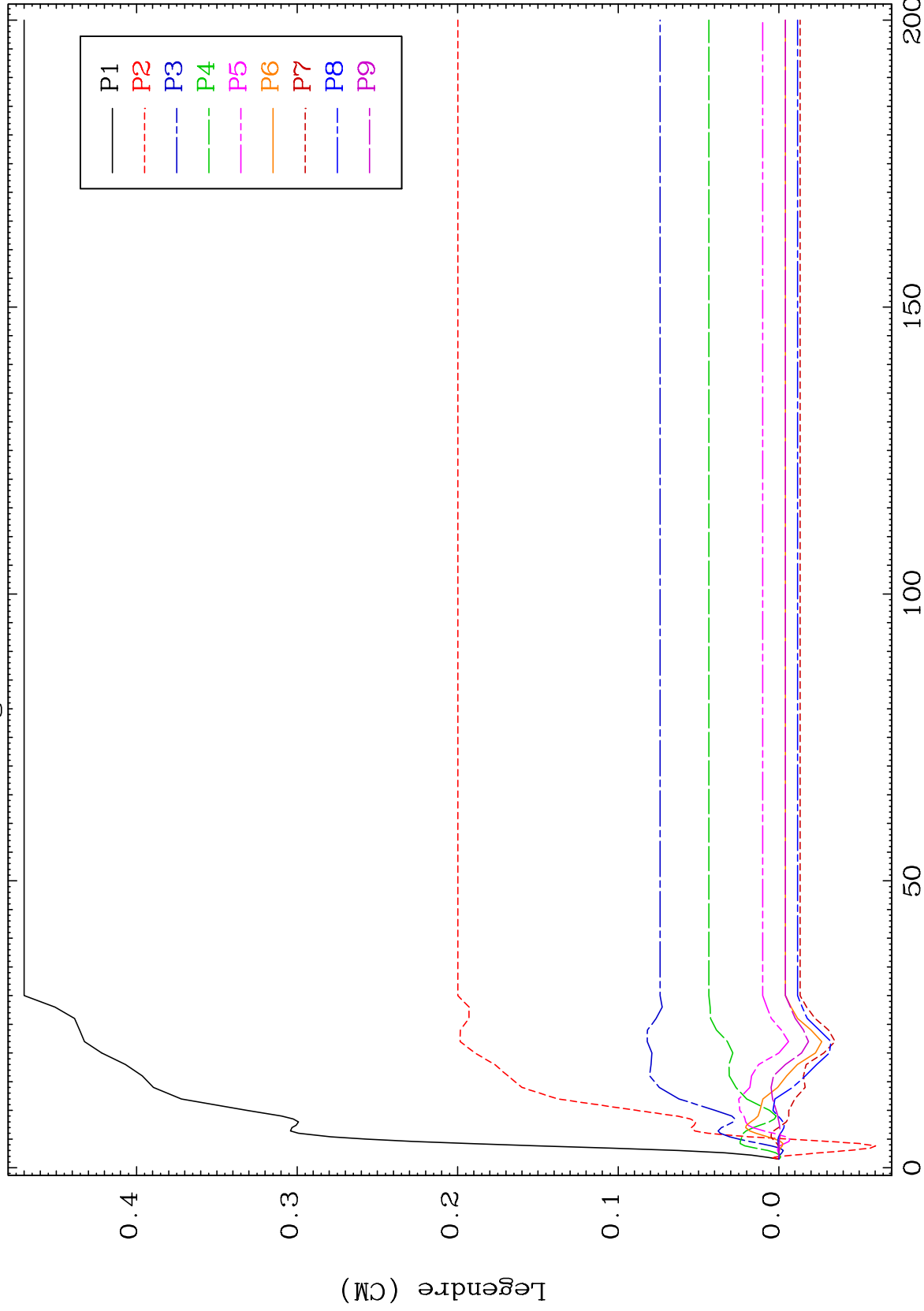
Incident Energy (MeV)

79

MAT 6416

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

64-Gd-149

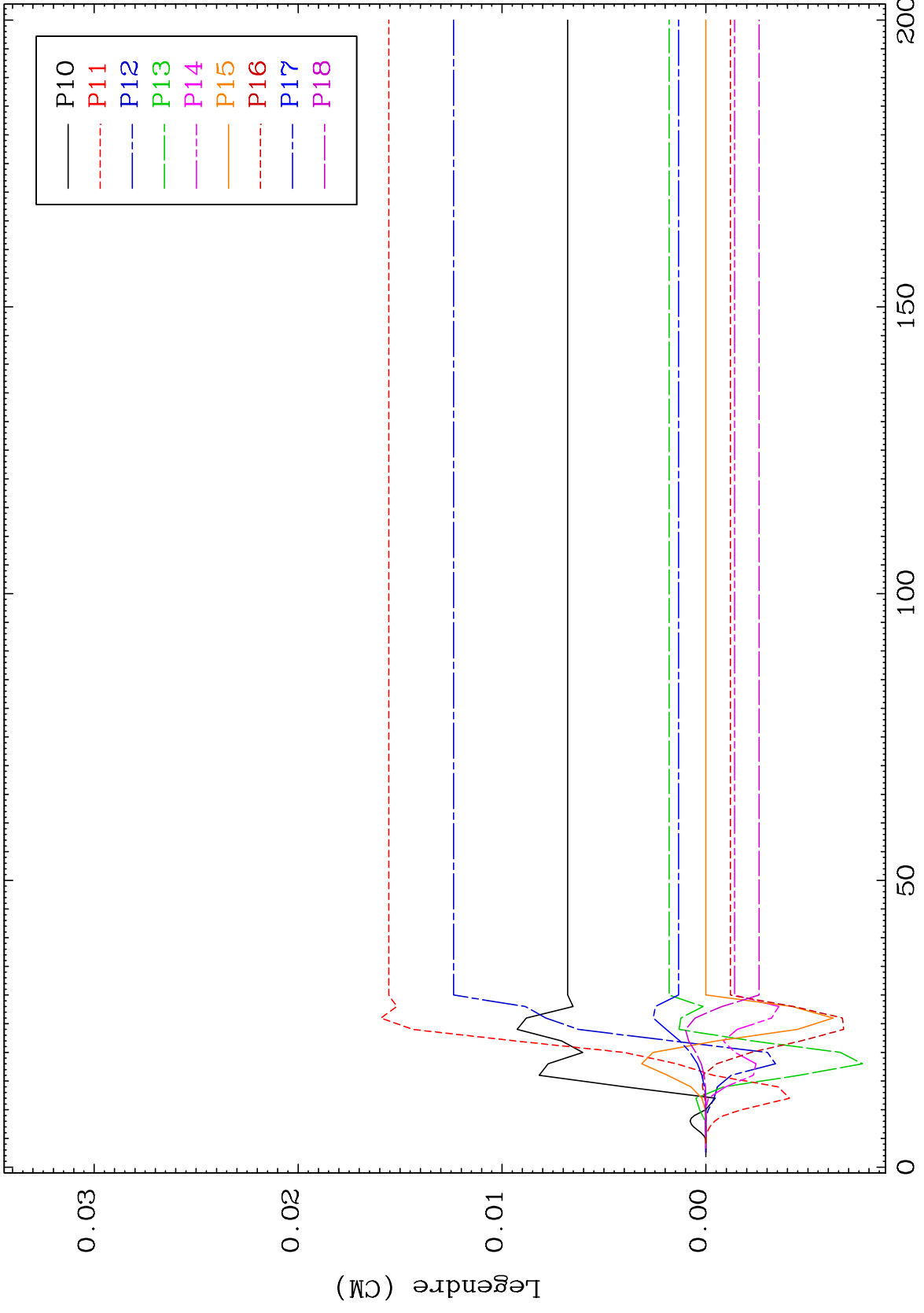


80

Incident Energy (MeV)

64-Gd-149

MAT 6416 MT= 66 (n,n') Level Legendre Coefficients 64-Gd-149

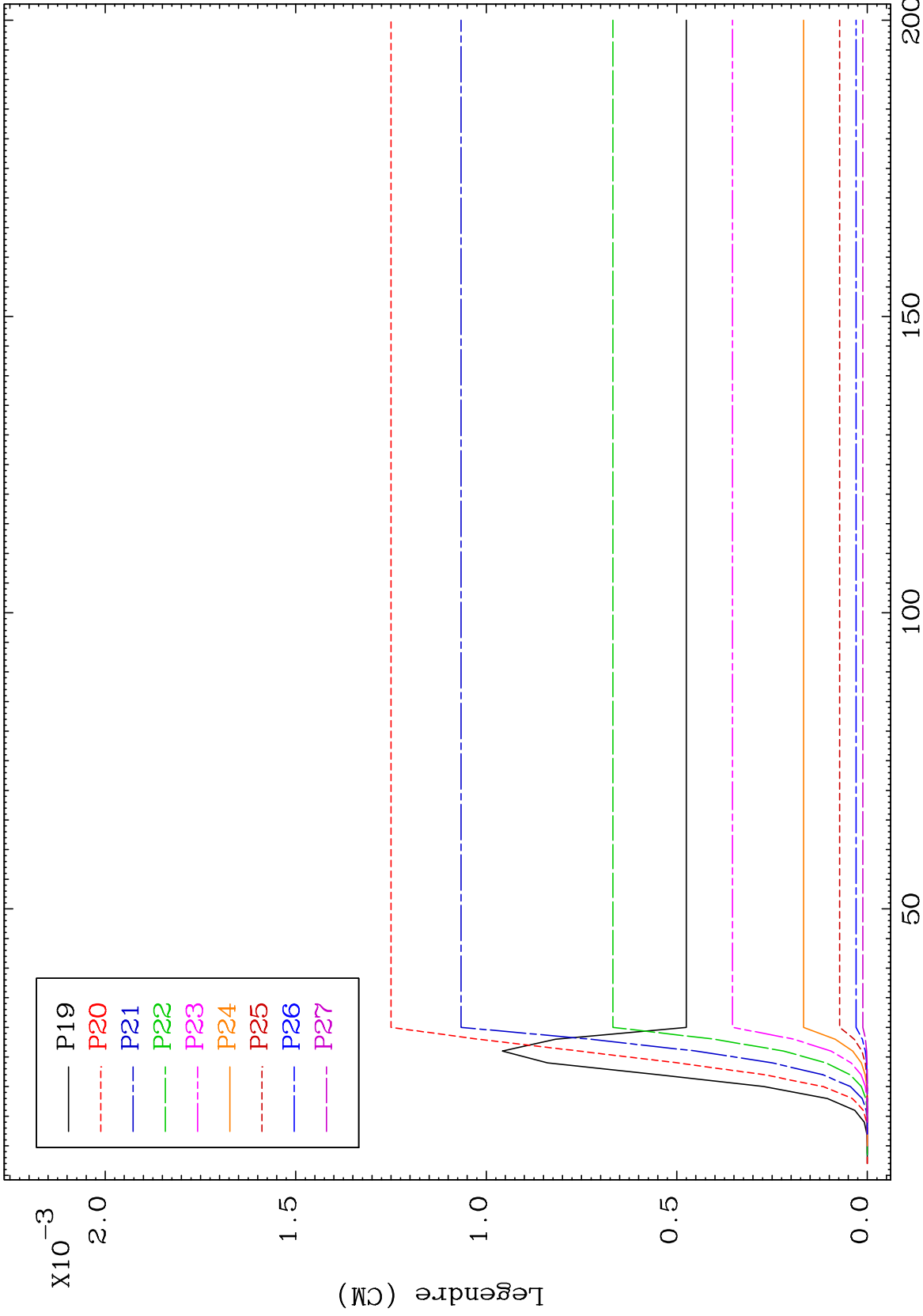


81 64-Gd-149

MAT 6416

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

64-Gd-149



82

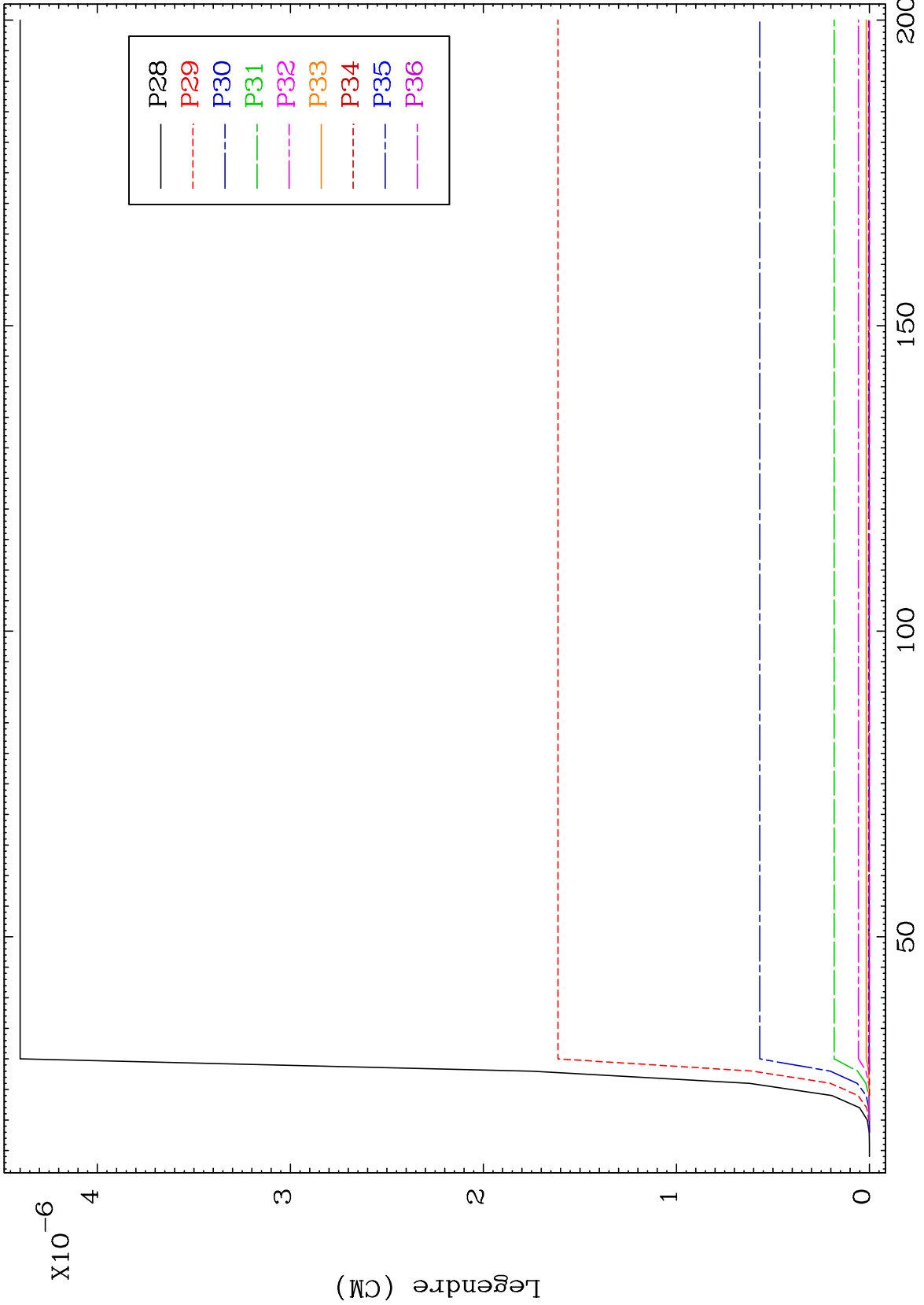
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149



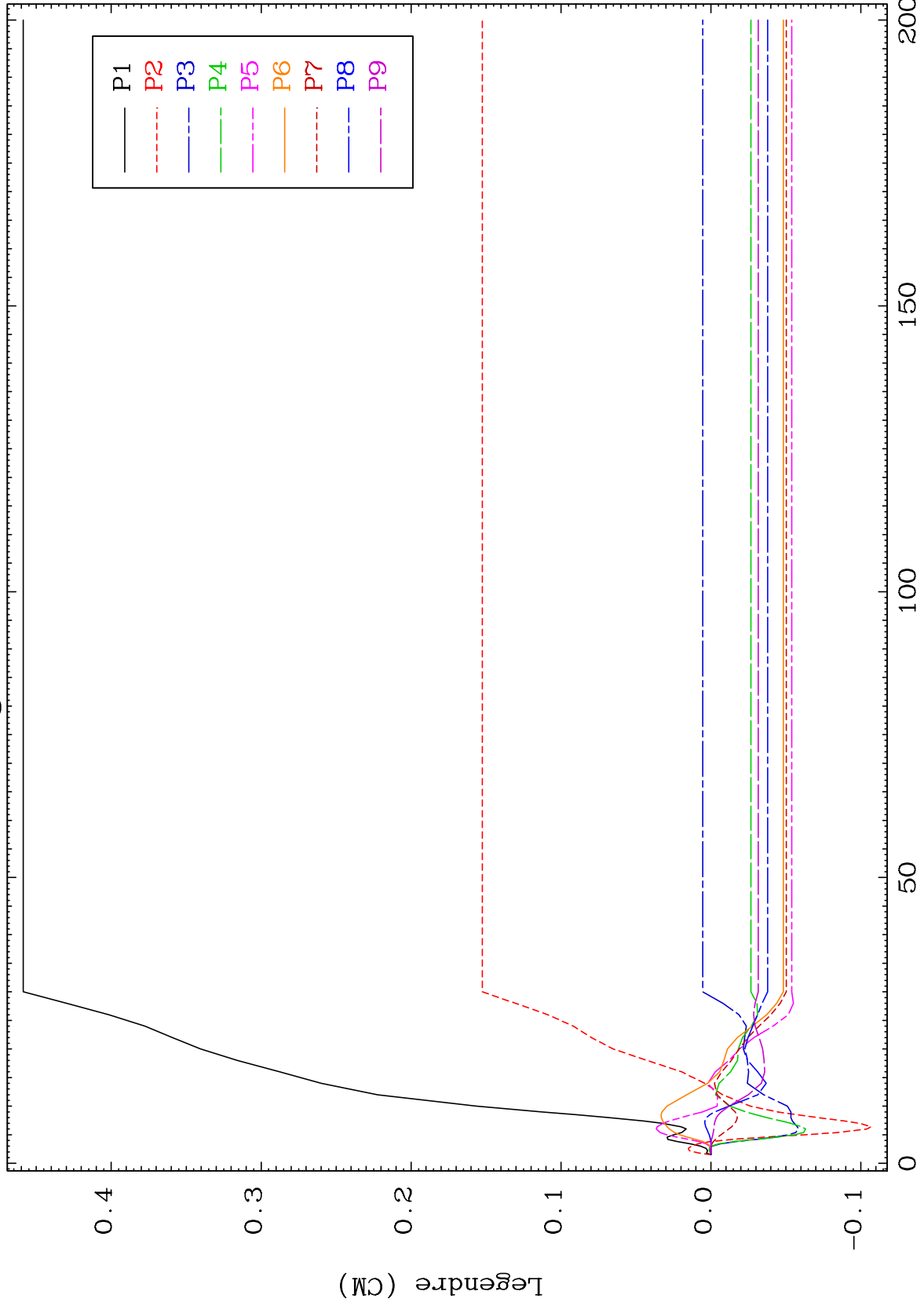
83

64-Gd-149

MAT 6416

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

64-Gd-149



84

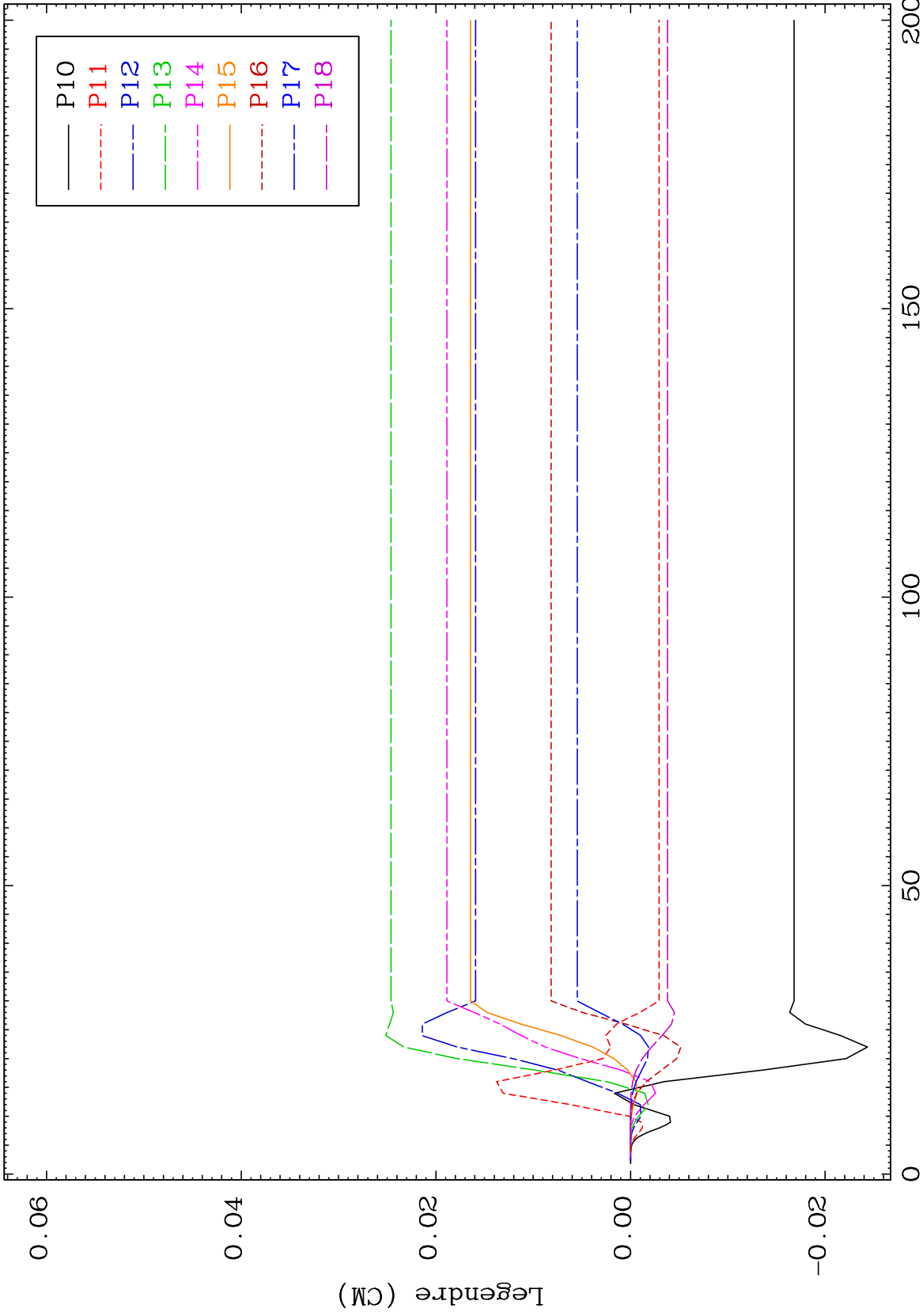
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149



85

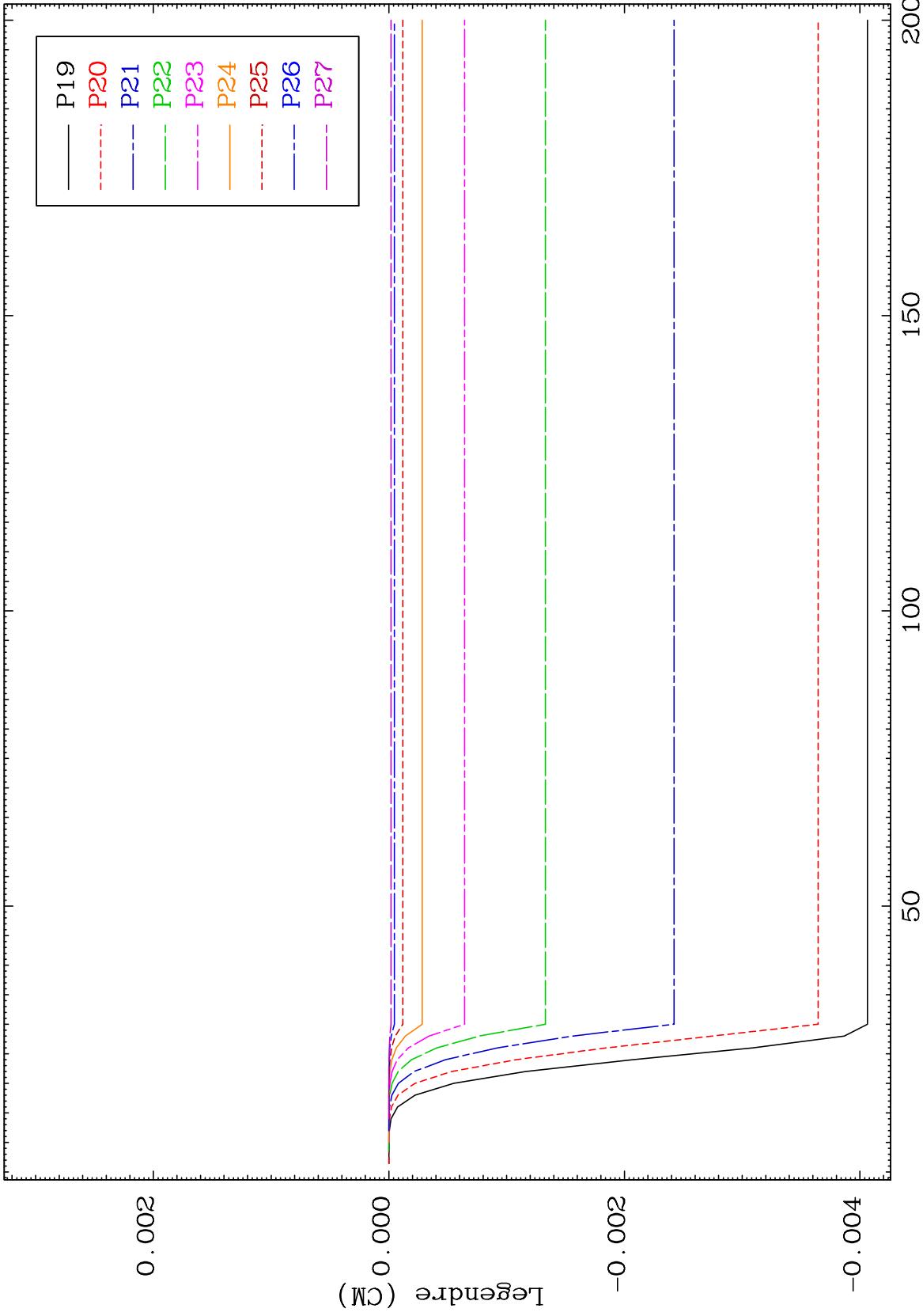
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149



86

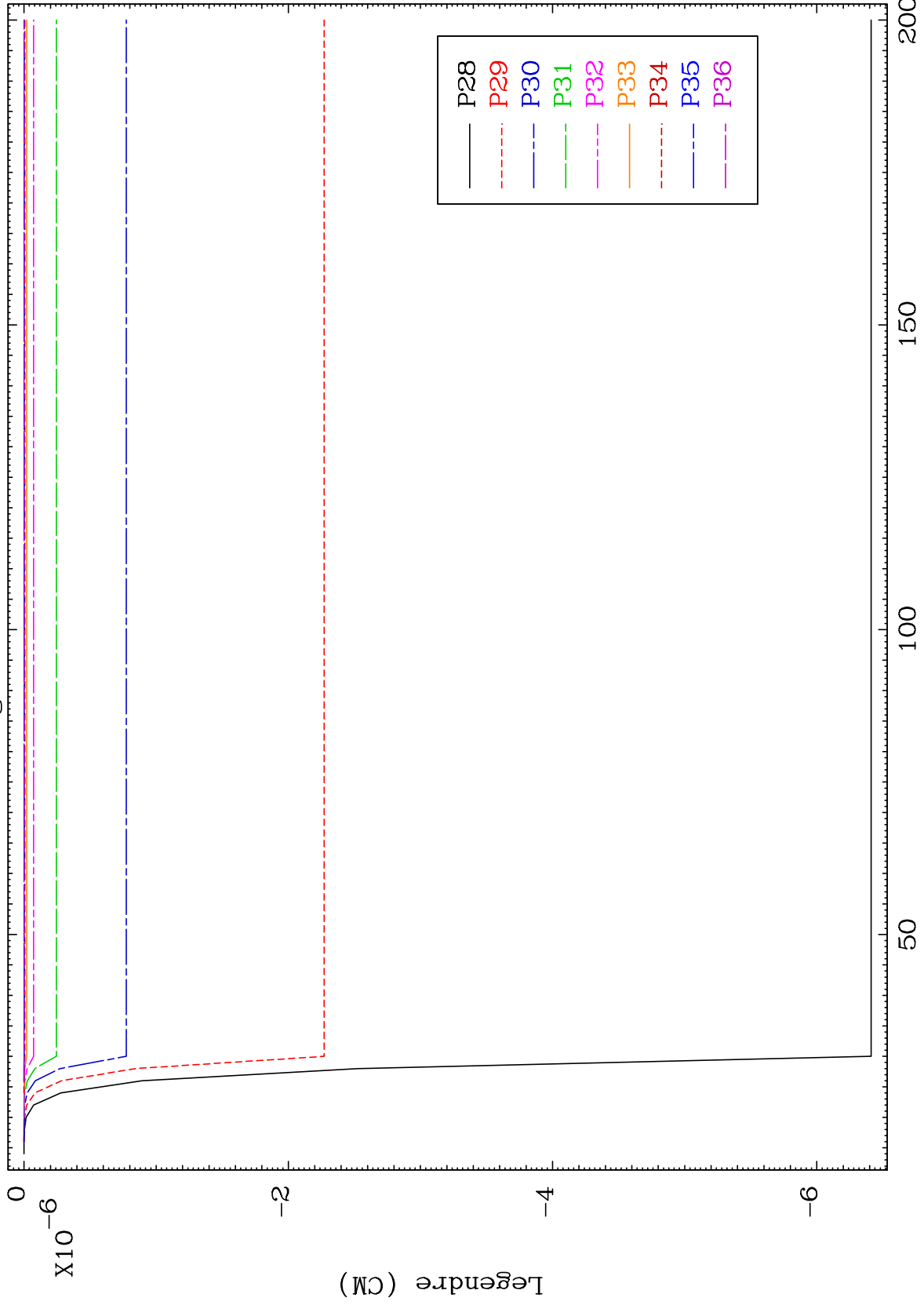
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

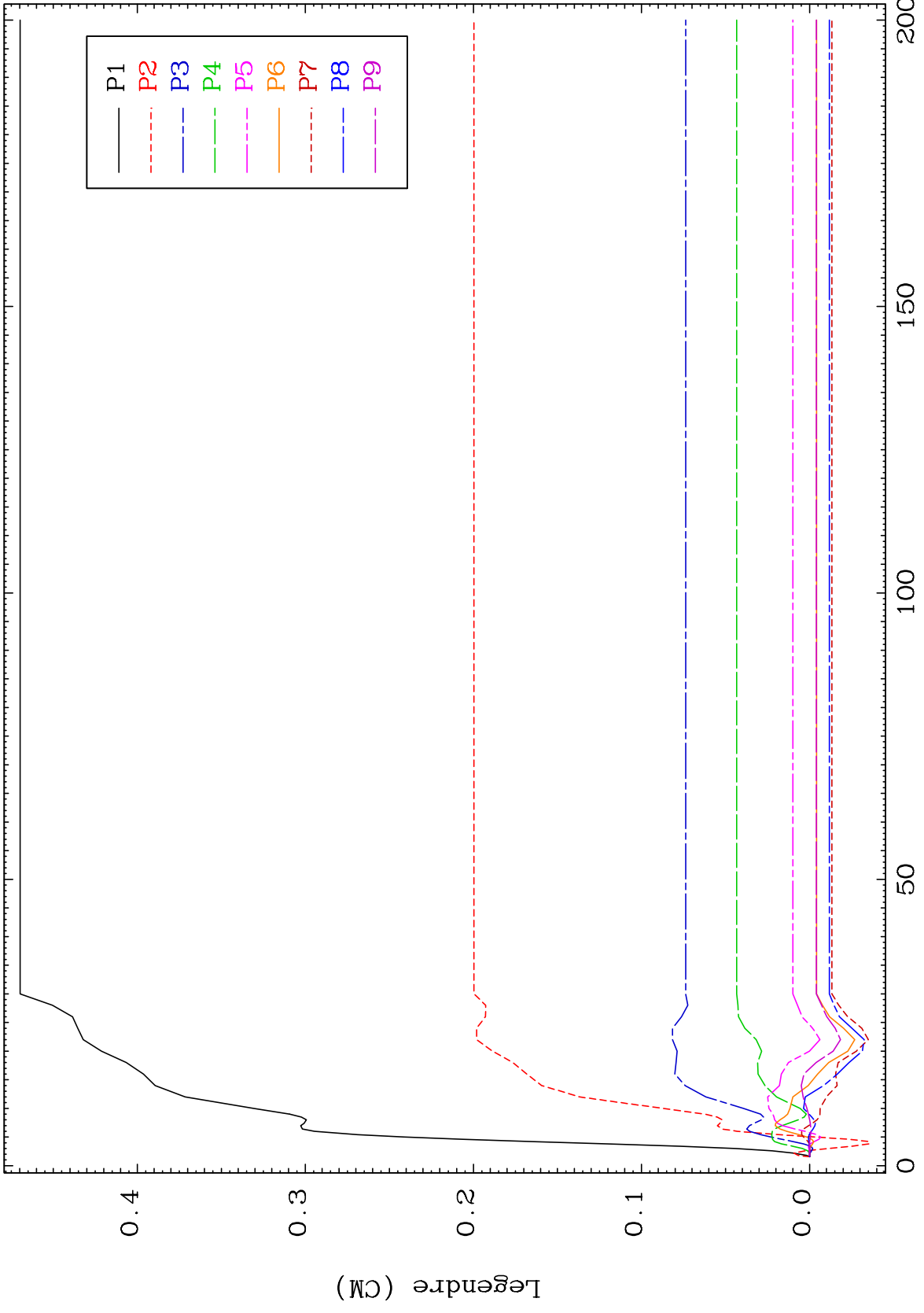
64-Gd-149



87

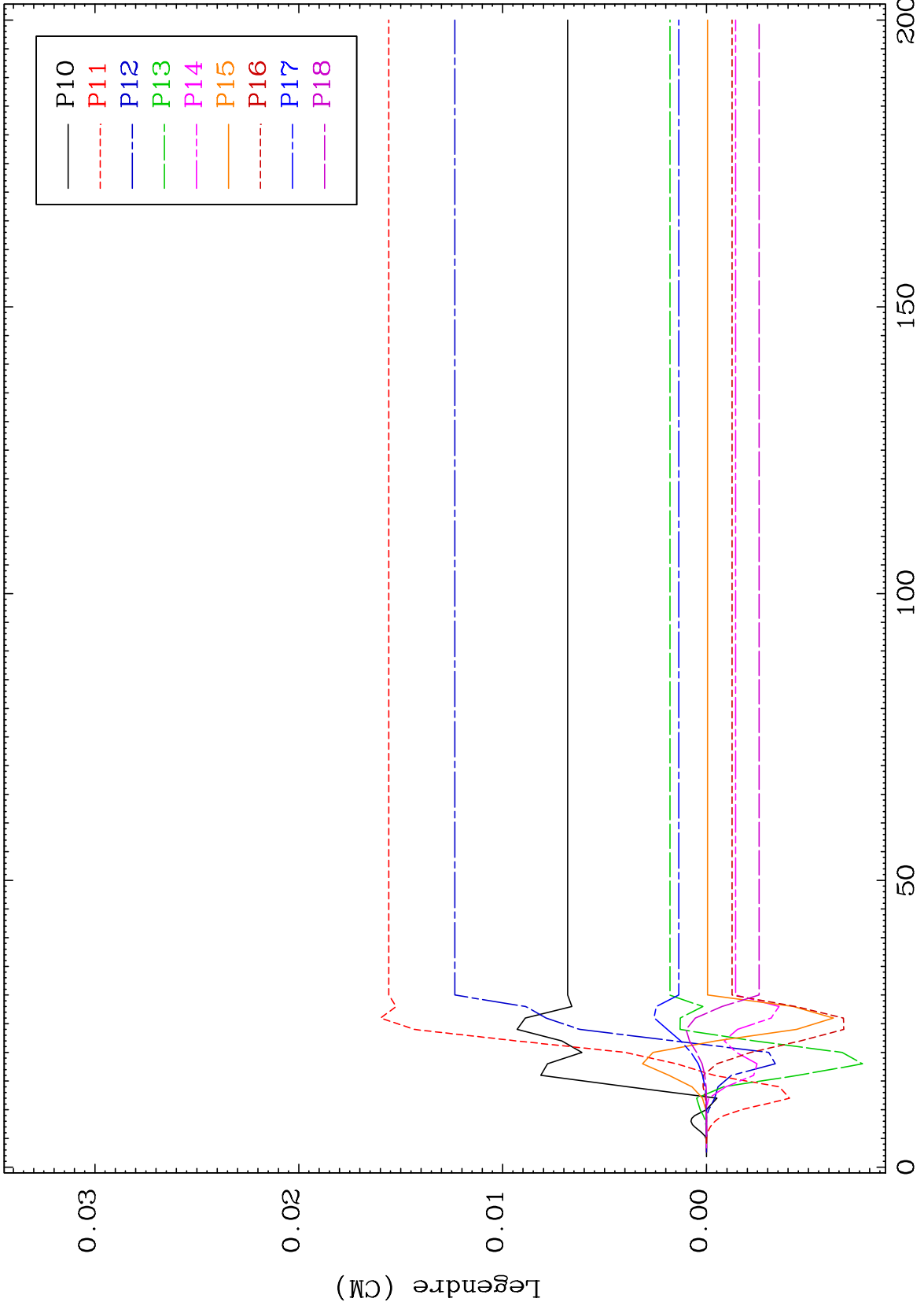
64-Gd-149

MAT 6416 MT= 68 (n,n') Level Legendre Coefficients 64-Gd-149



88 64-Gd-149

MAT 6416 MT= 68 (n,n') Level Legendre Coefficients 64-Gd-149

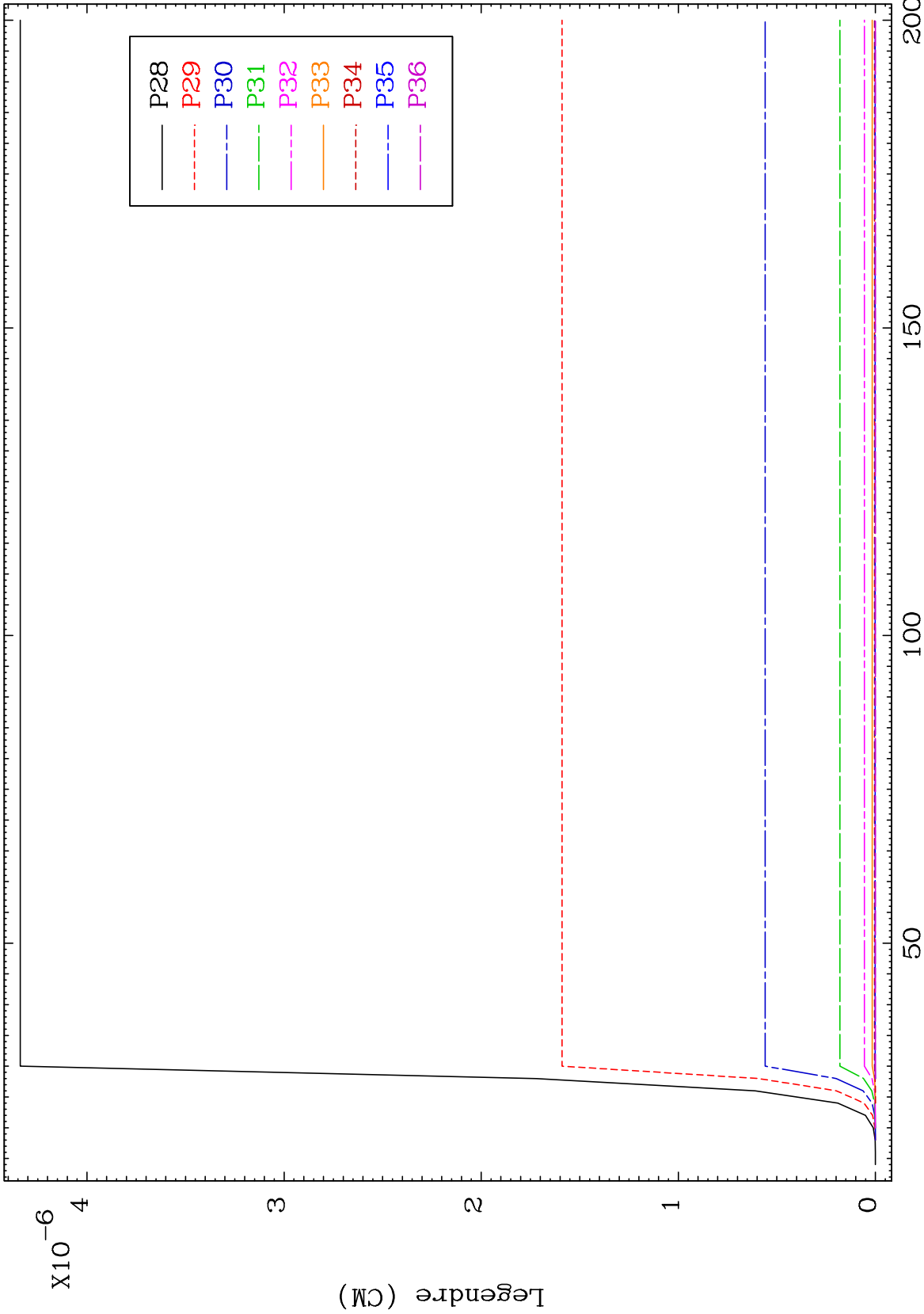


89 64-Gd-149

MAT 6416

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

64-Gd-149



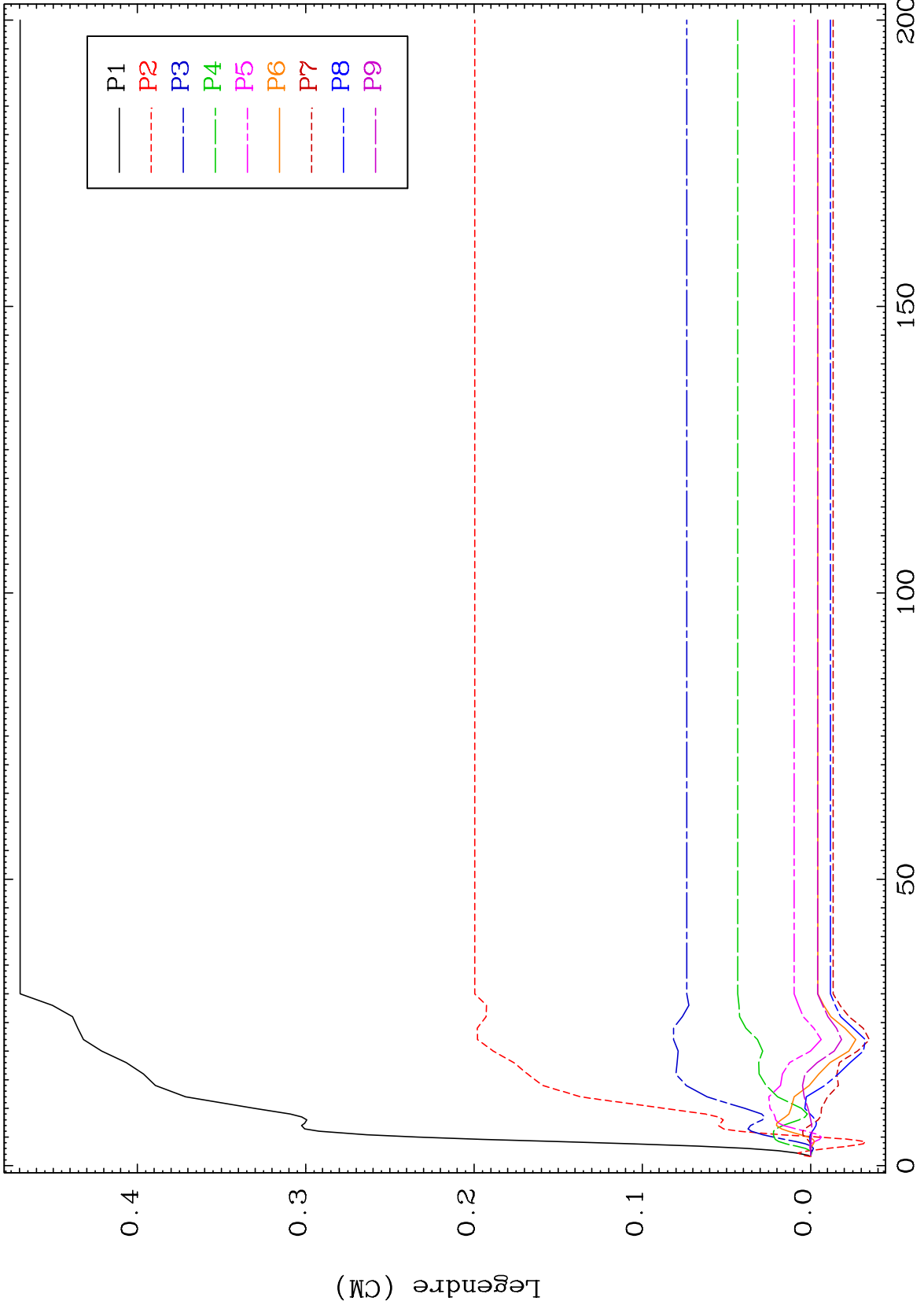
91

64-Gd-149

MAT 6416

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

64-Gd-149

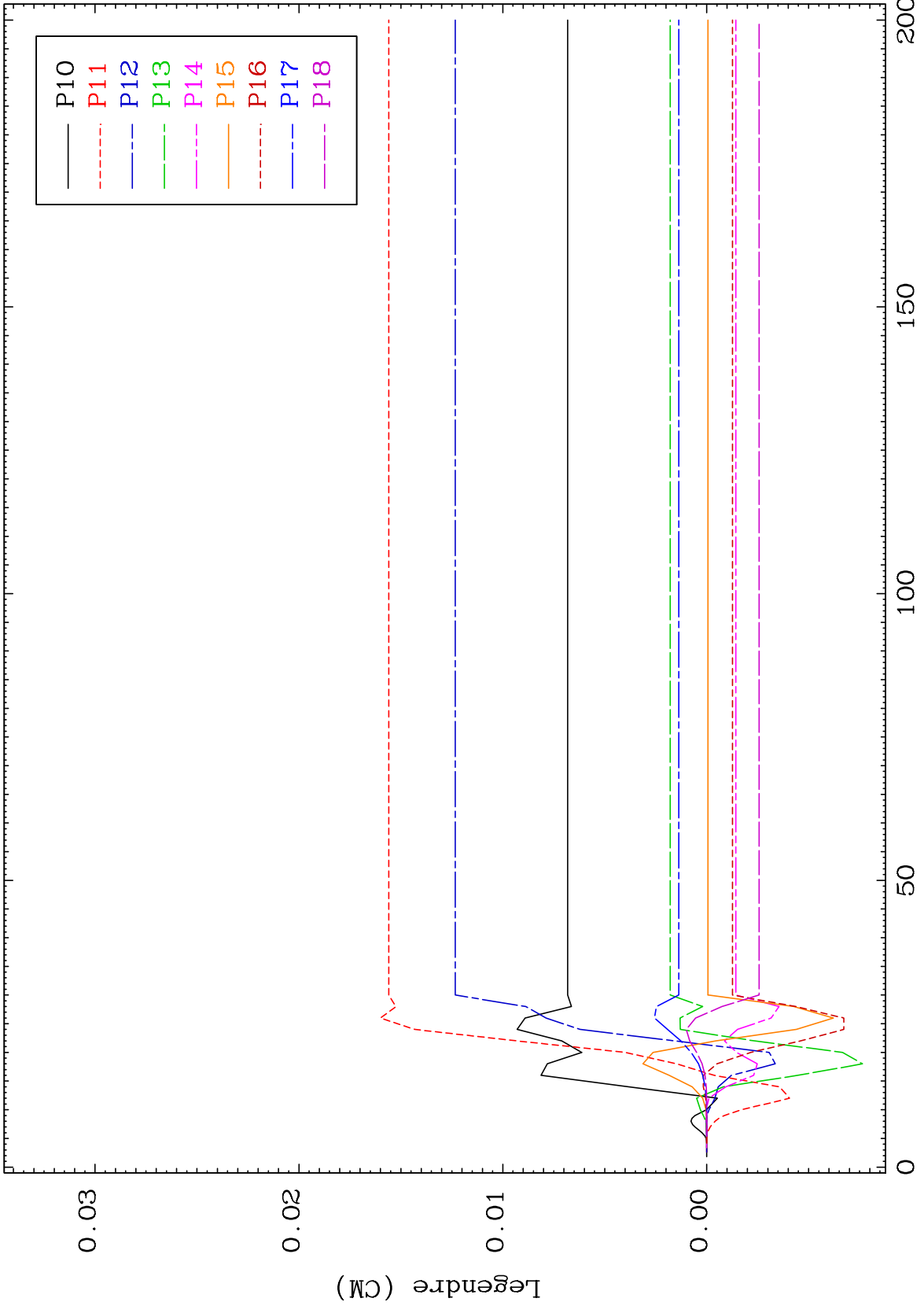


92

Incident Energy (MeV)

64-Gd-149

MAT 6416 MT= 69 (n,n') Level Legendre Coefficients 64-Gd-149

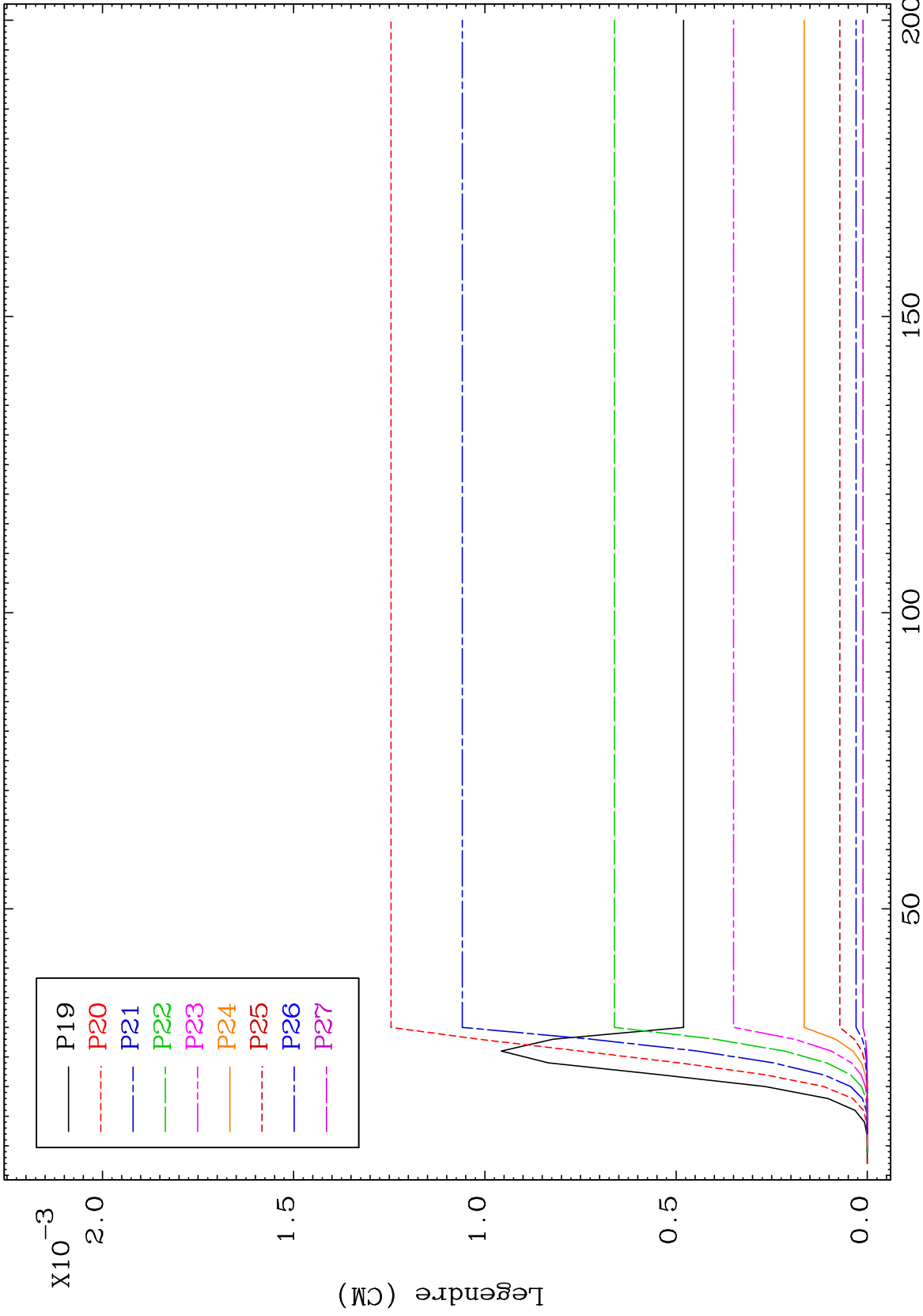


93 64-Gd-149

MAT 6416

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

64-Gd-149



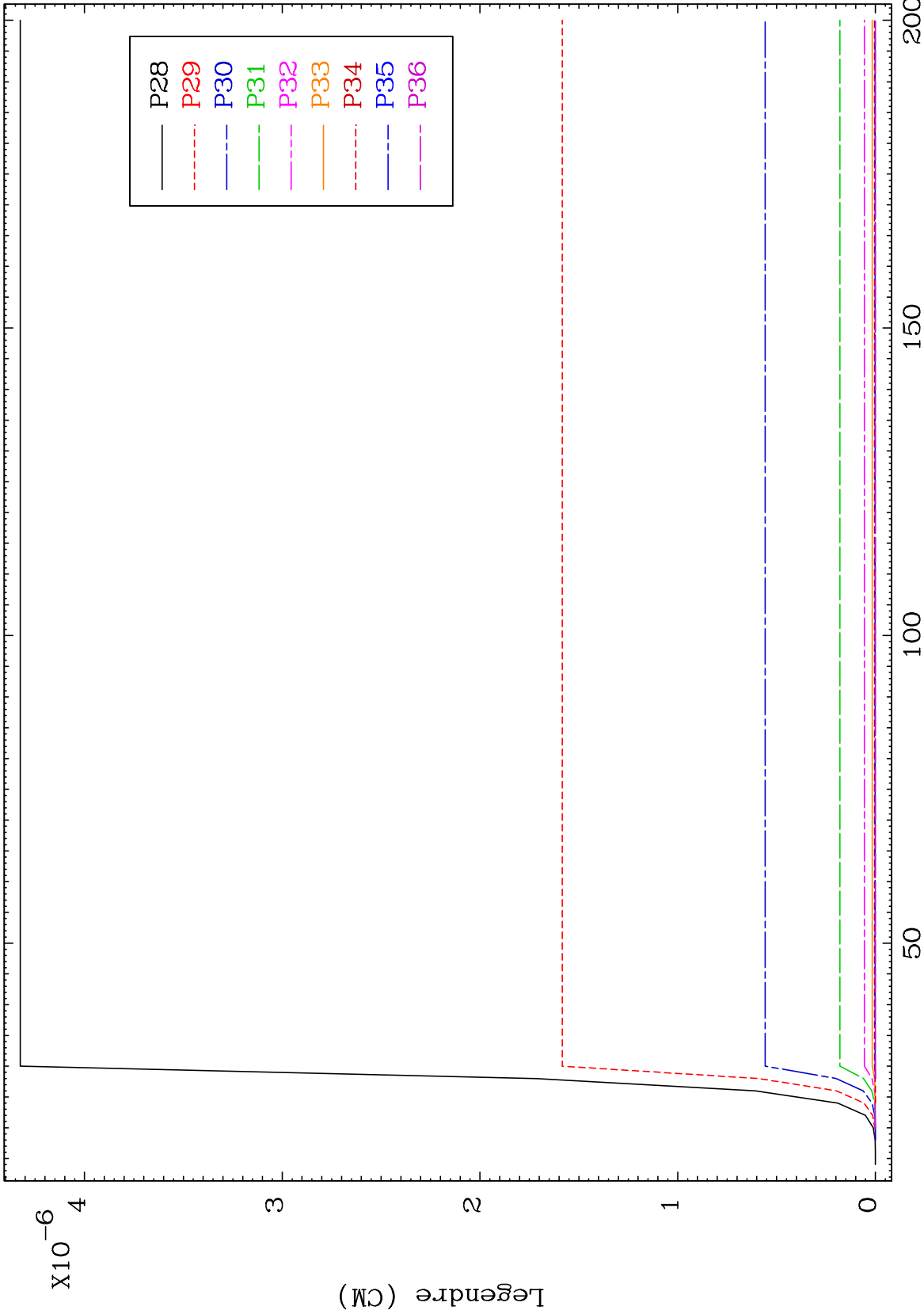
94

64-Gd-149

MAT 6416

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

64-Gd-149



95

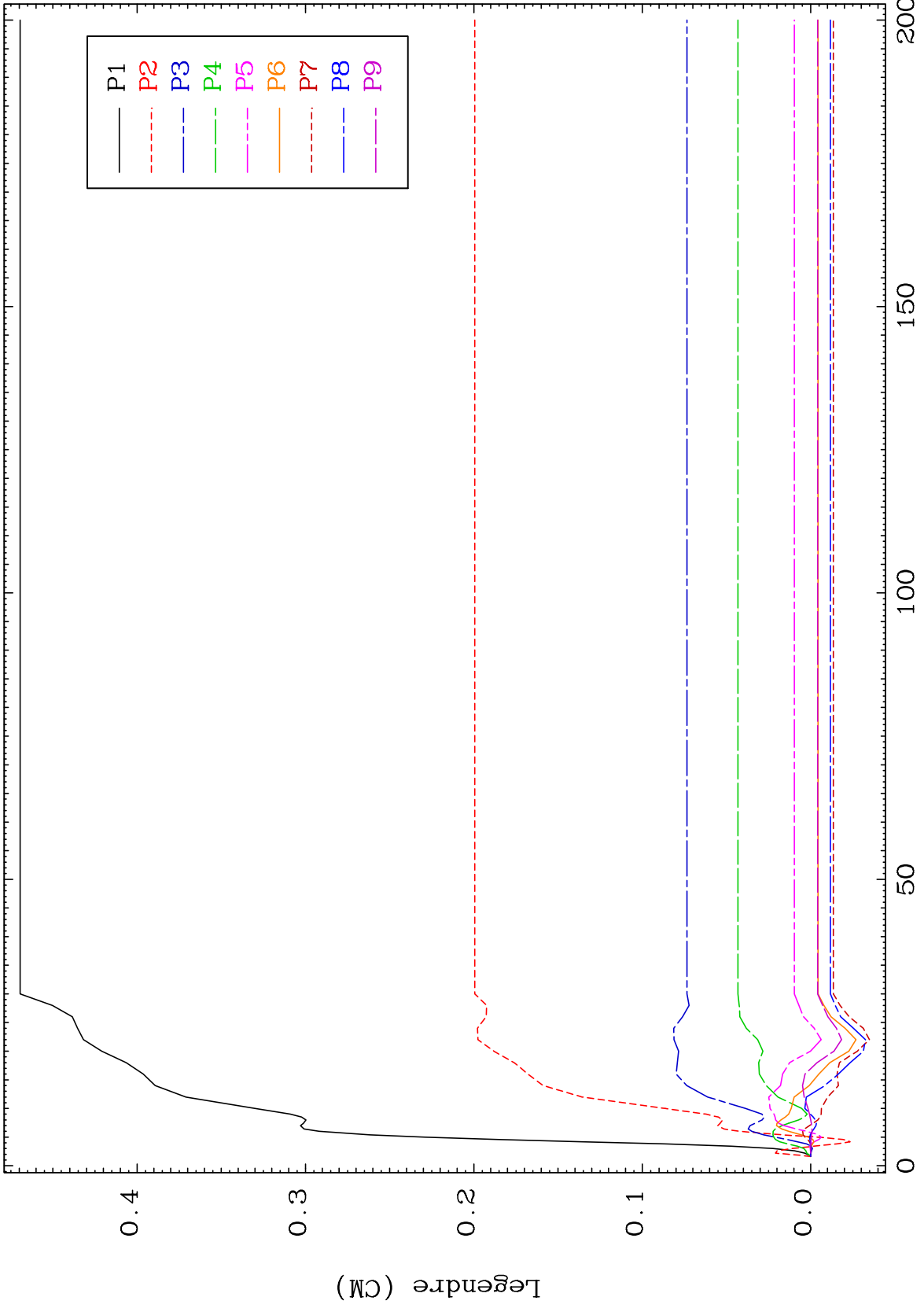
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149

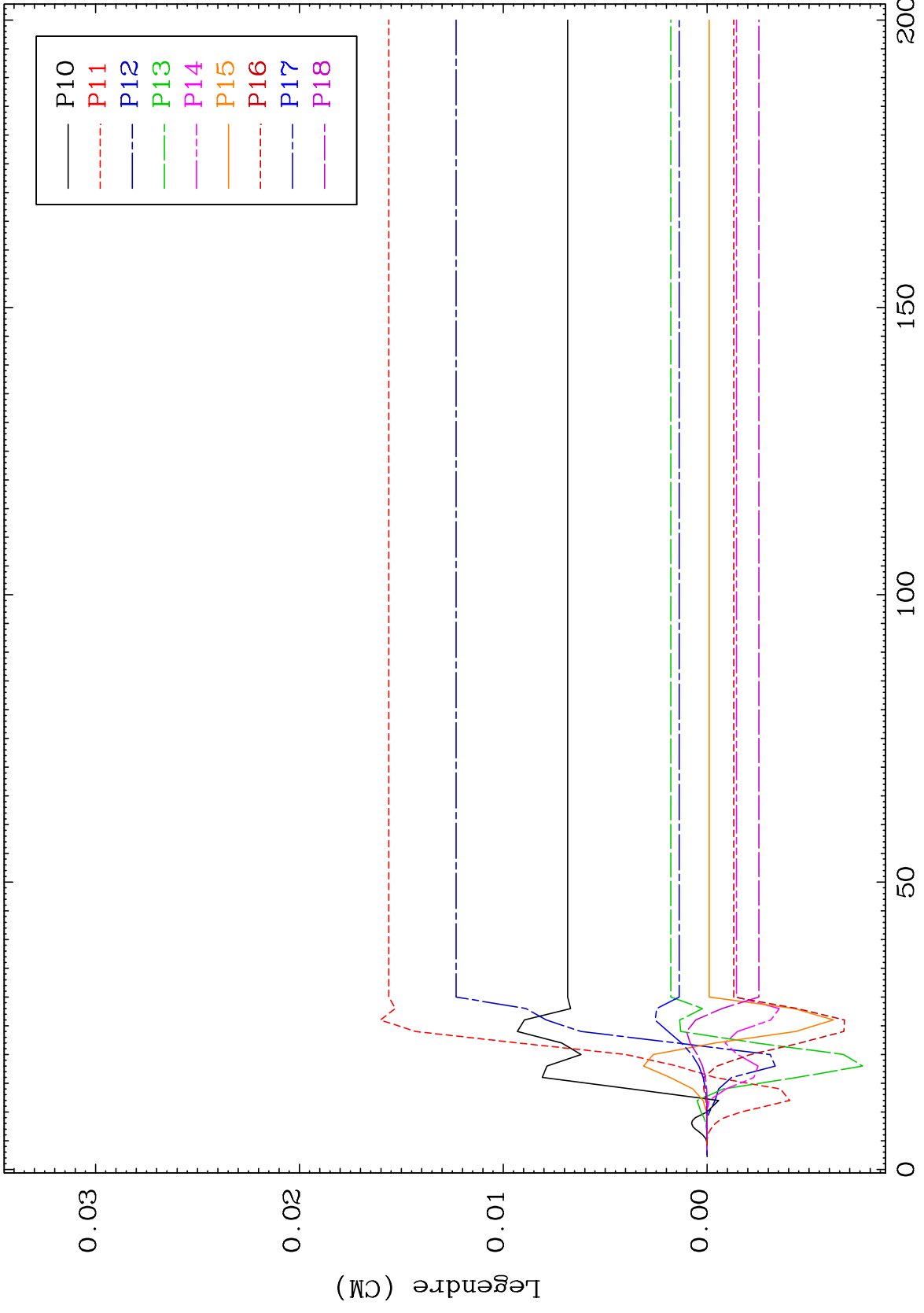


96

Incident Energy (MeV)

64-Gd-149

MAT 6416 MT= 70 (n,n') Level Legendre Coefficients 64-Gd-149

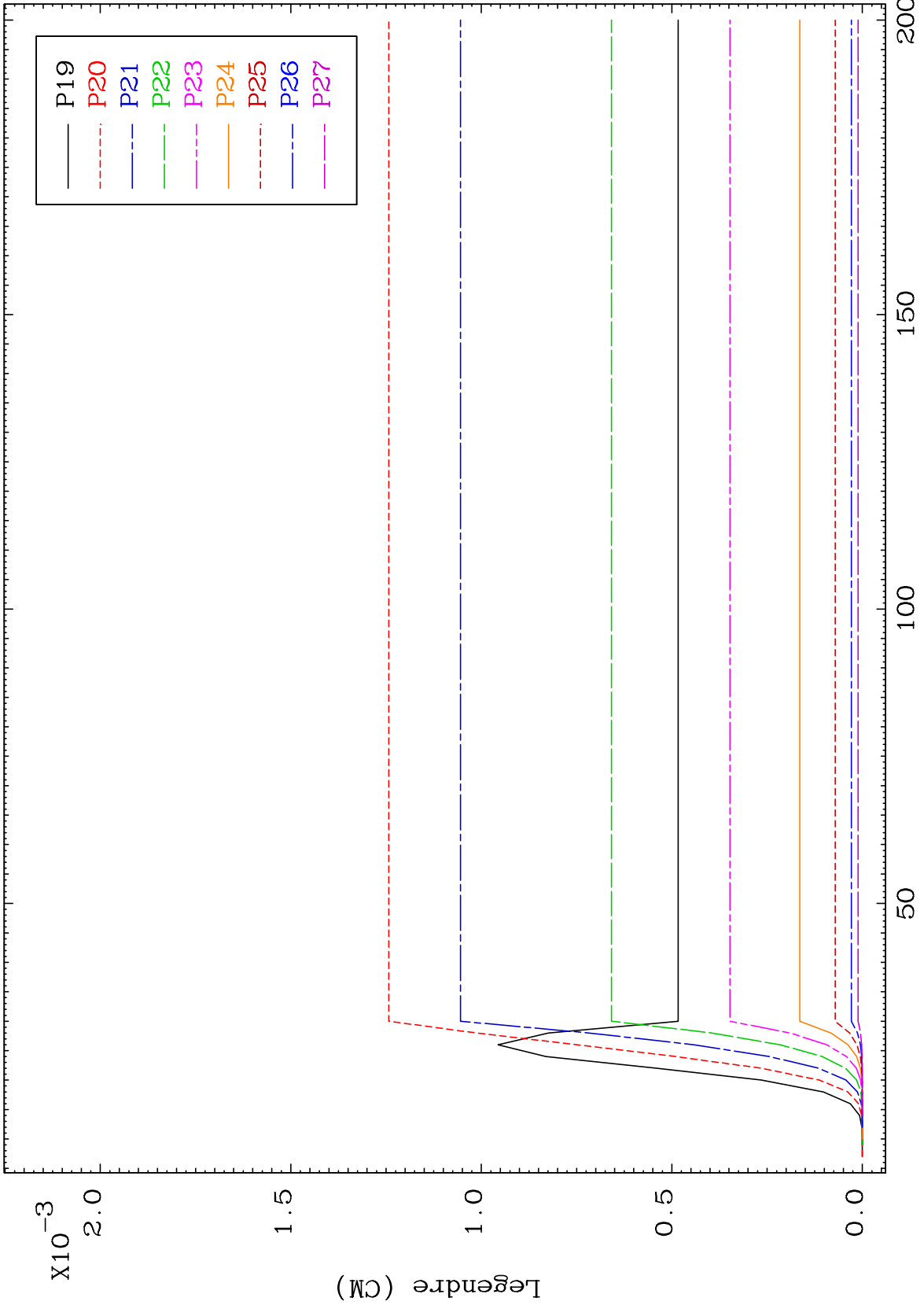


97 64-Gd-149

MAT 6416

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

64-Gd-149



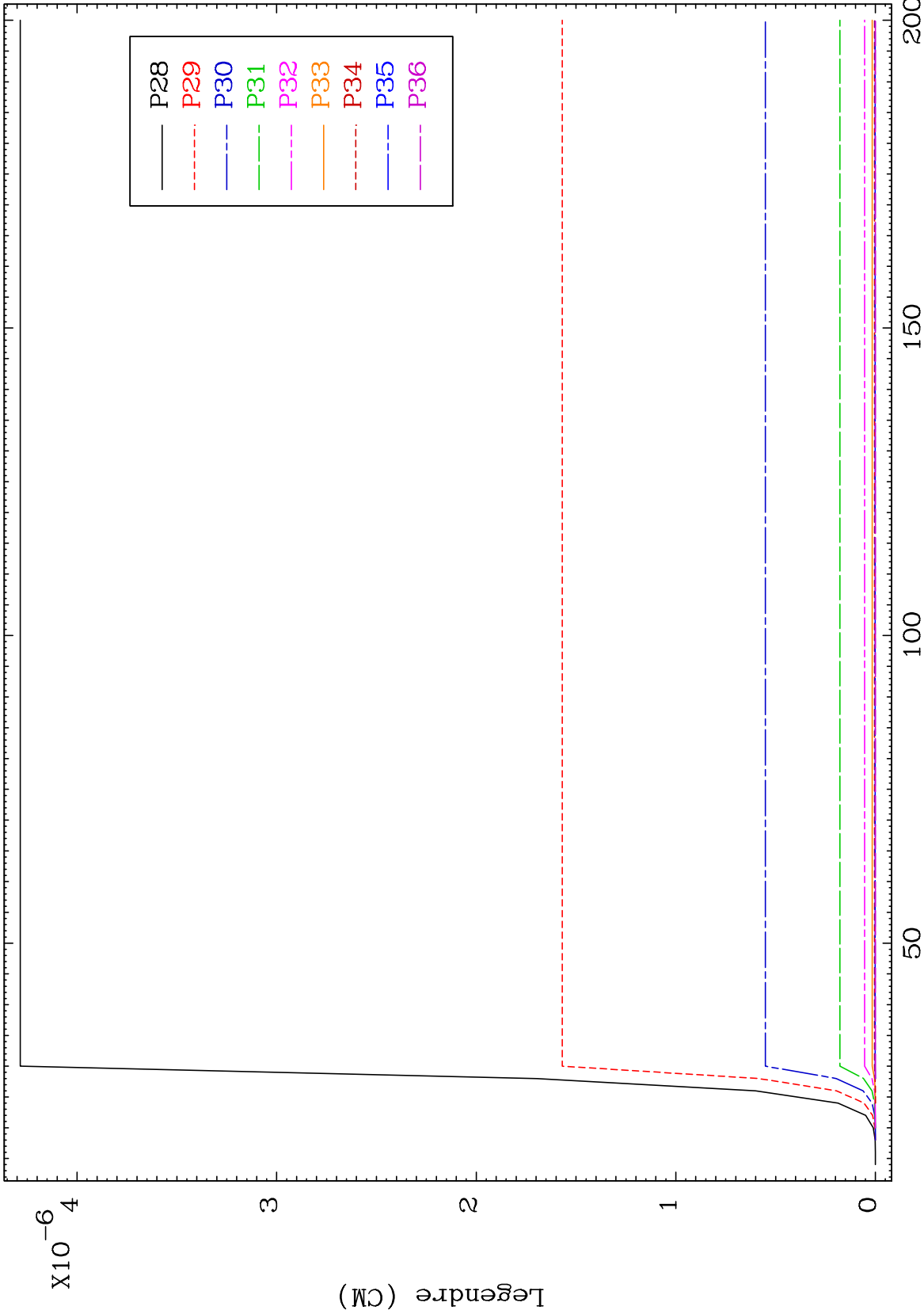
98

64-Gd-149

MAT 6416

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

64-Gd-149



99

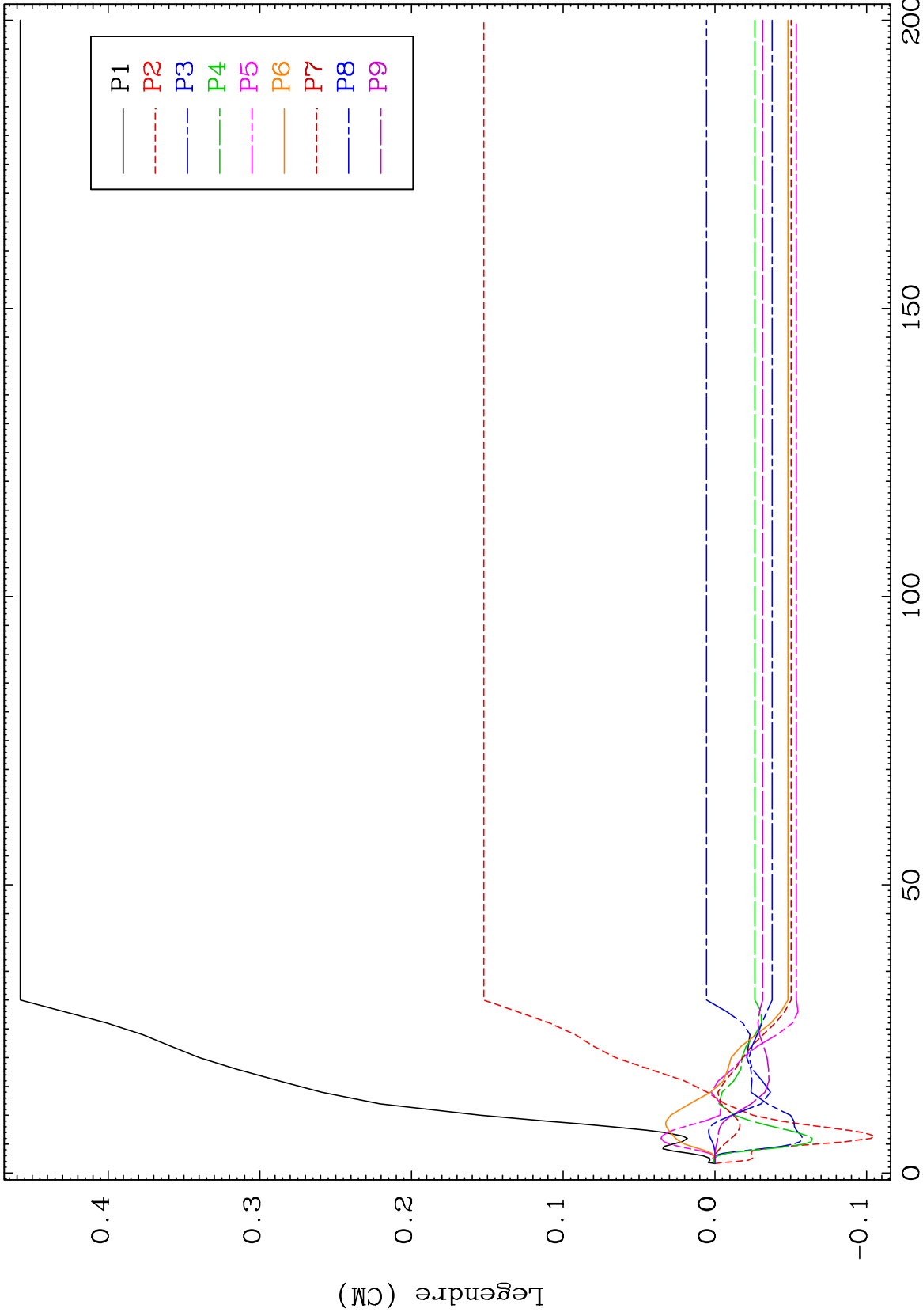
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149



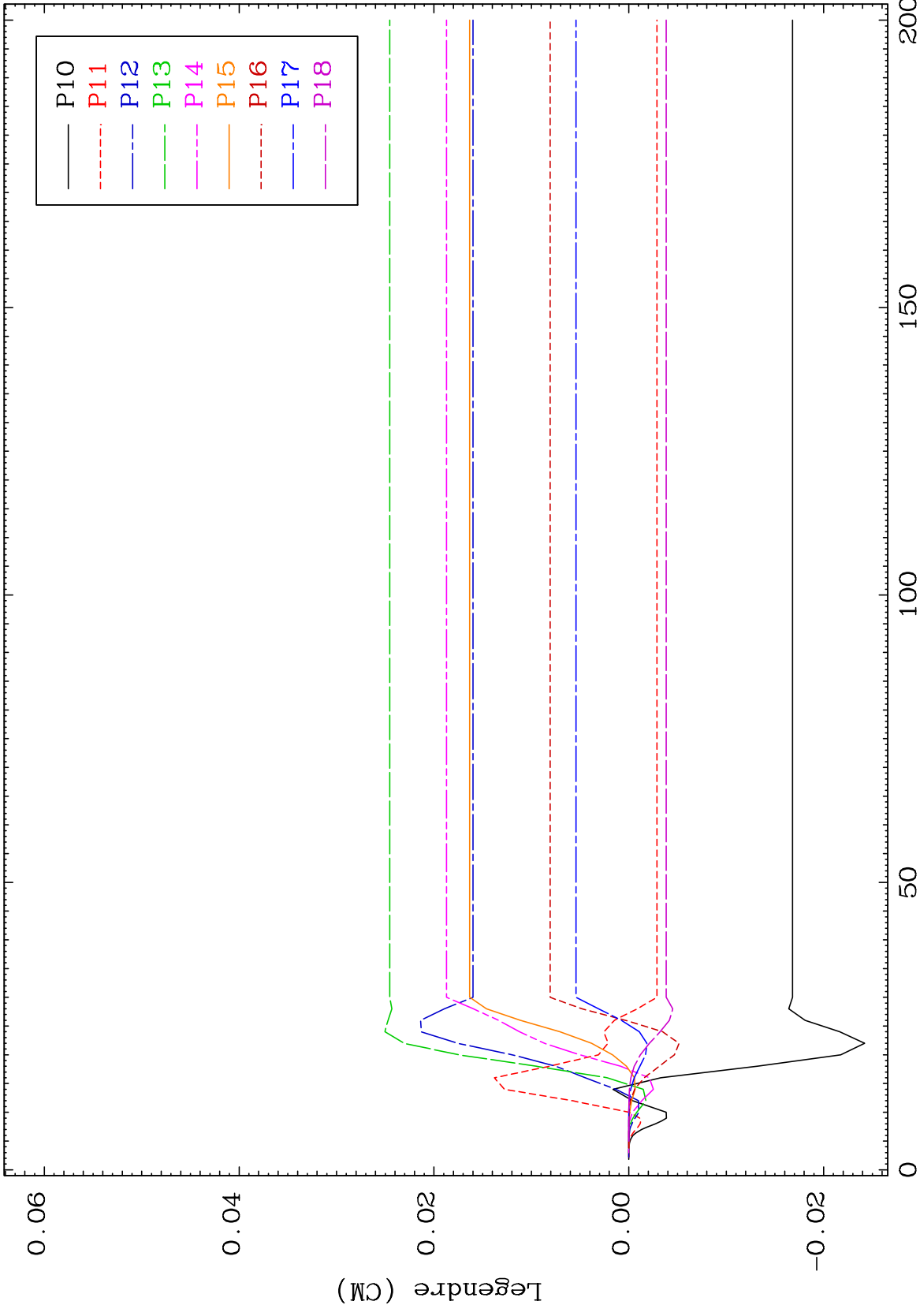
64-Gd-149

Incident Energy (MeV)

MAT 6416

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

64-Gd-149



101

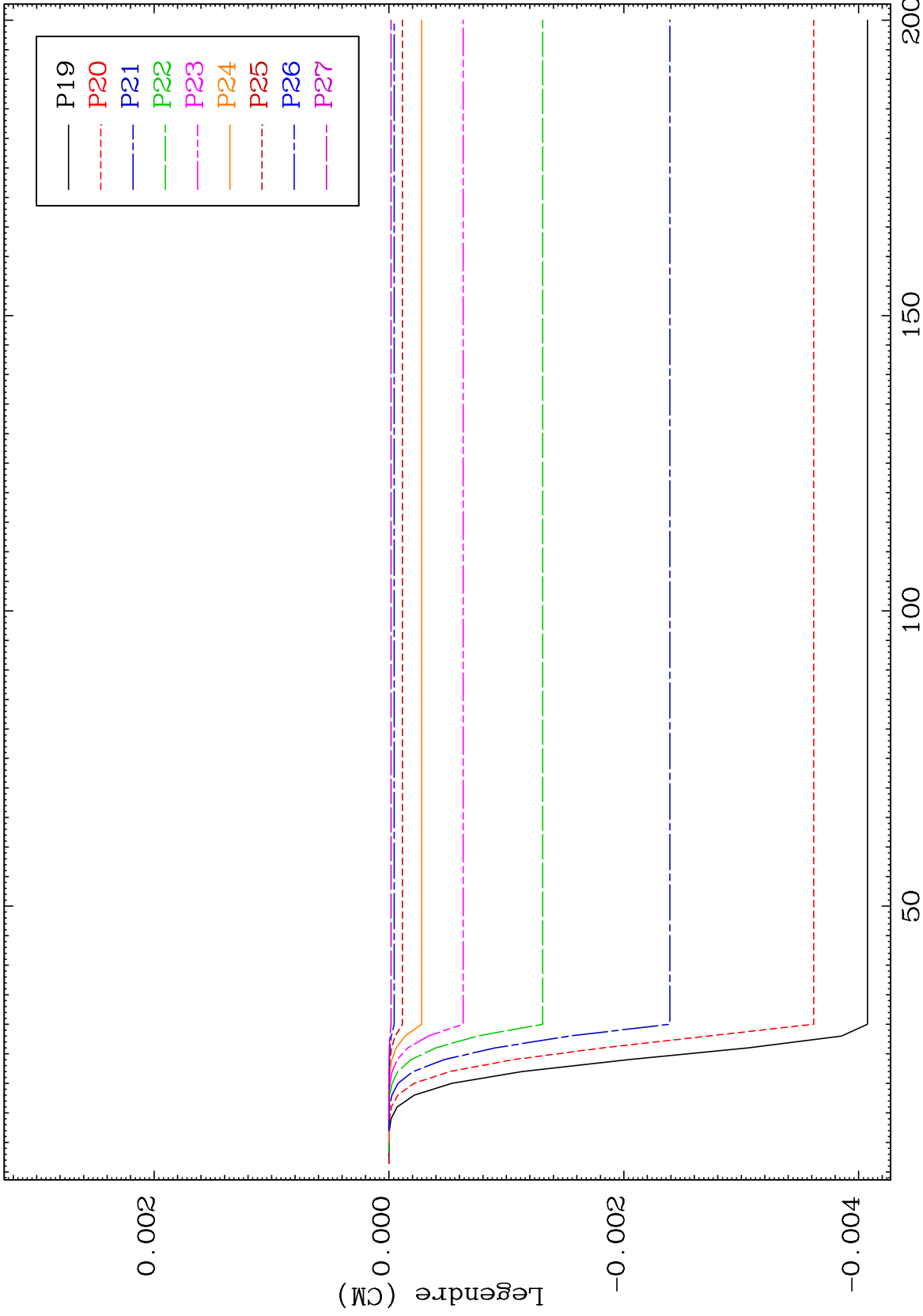
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149



102

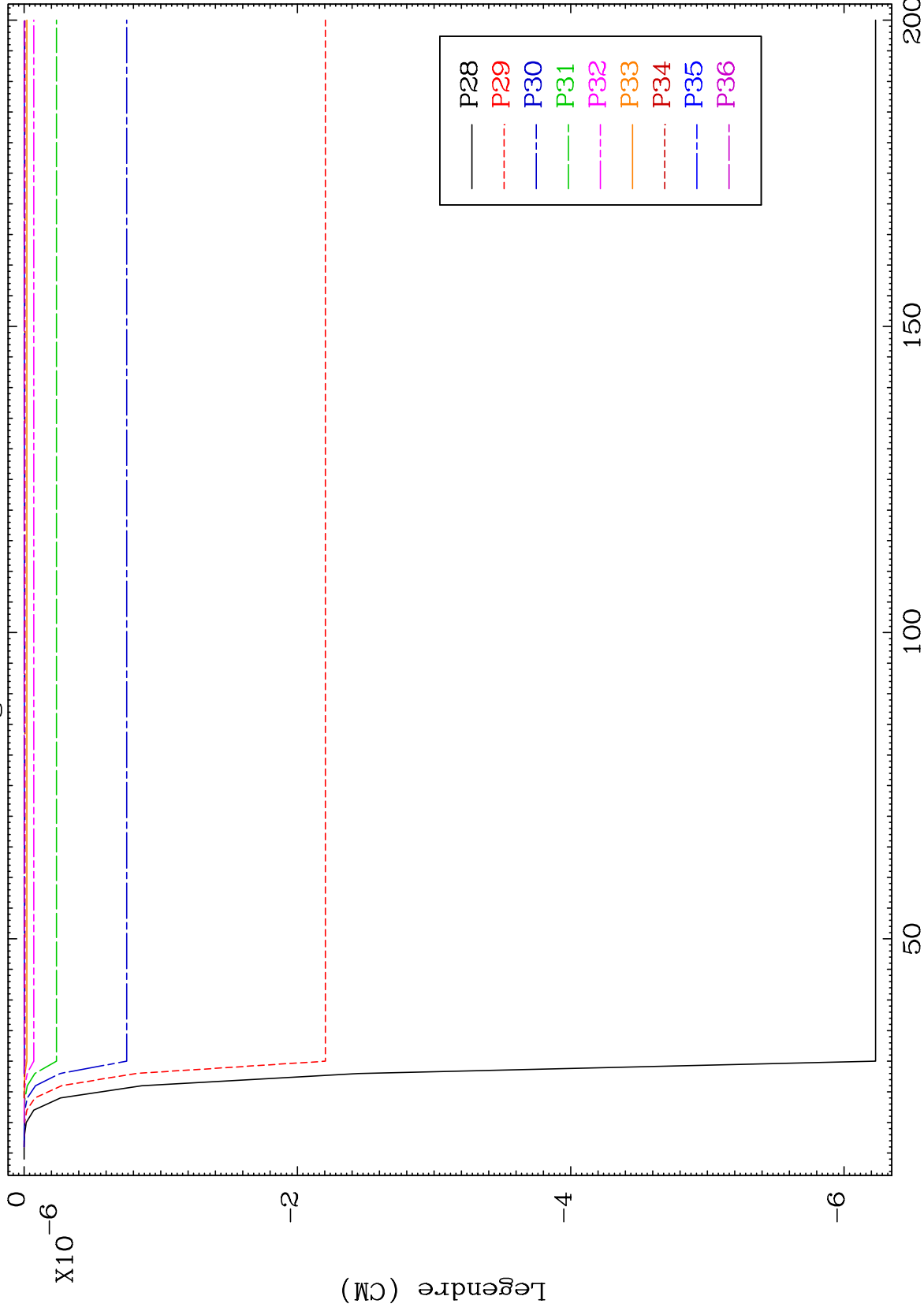
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149



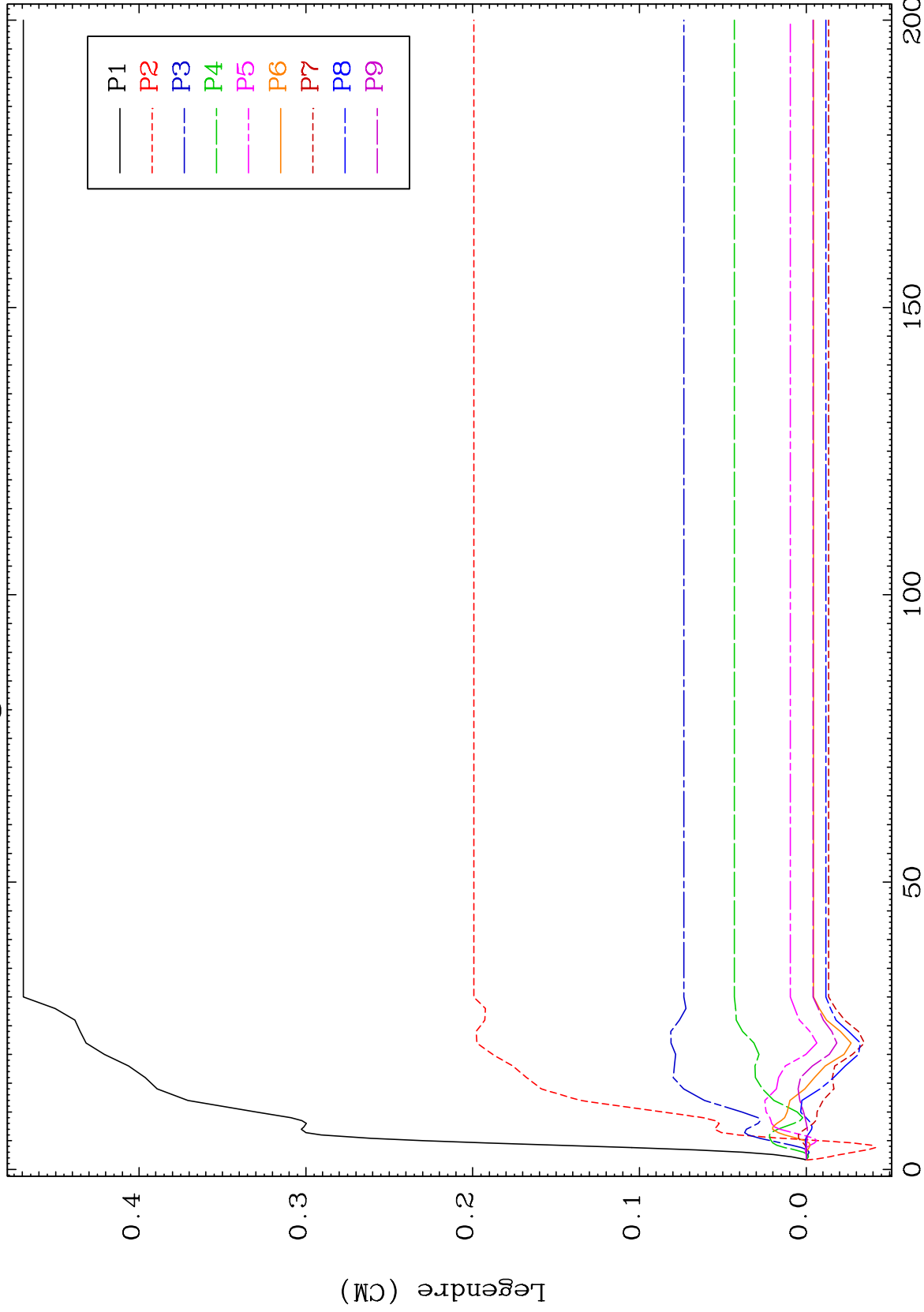
64-Gd-149

103

MAT 6416

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

64-Gd-149



104

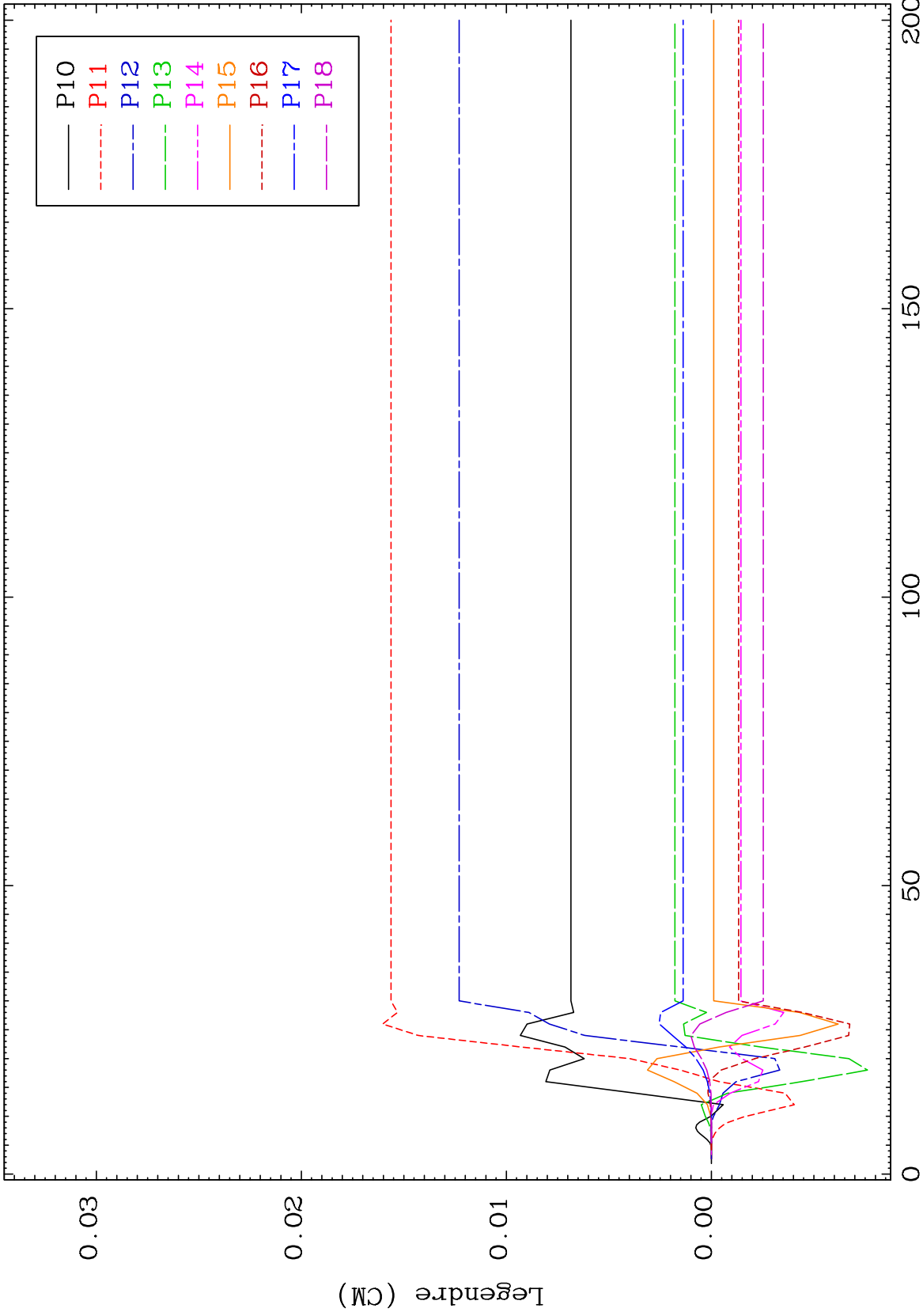
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149



105

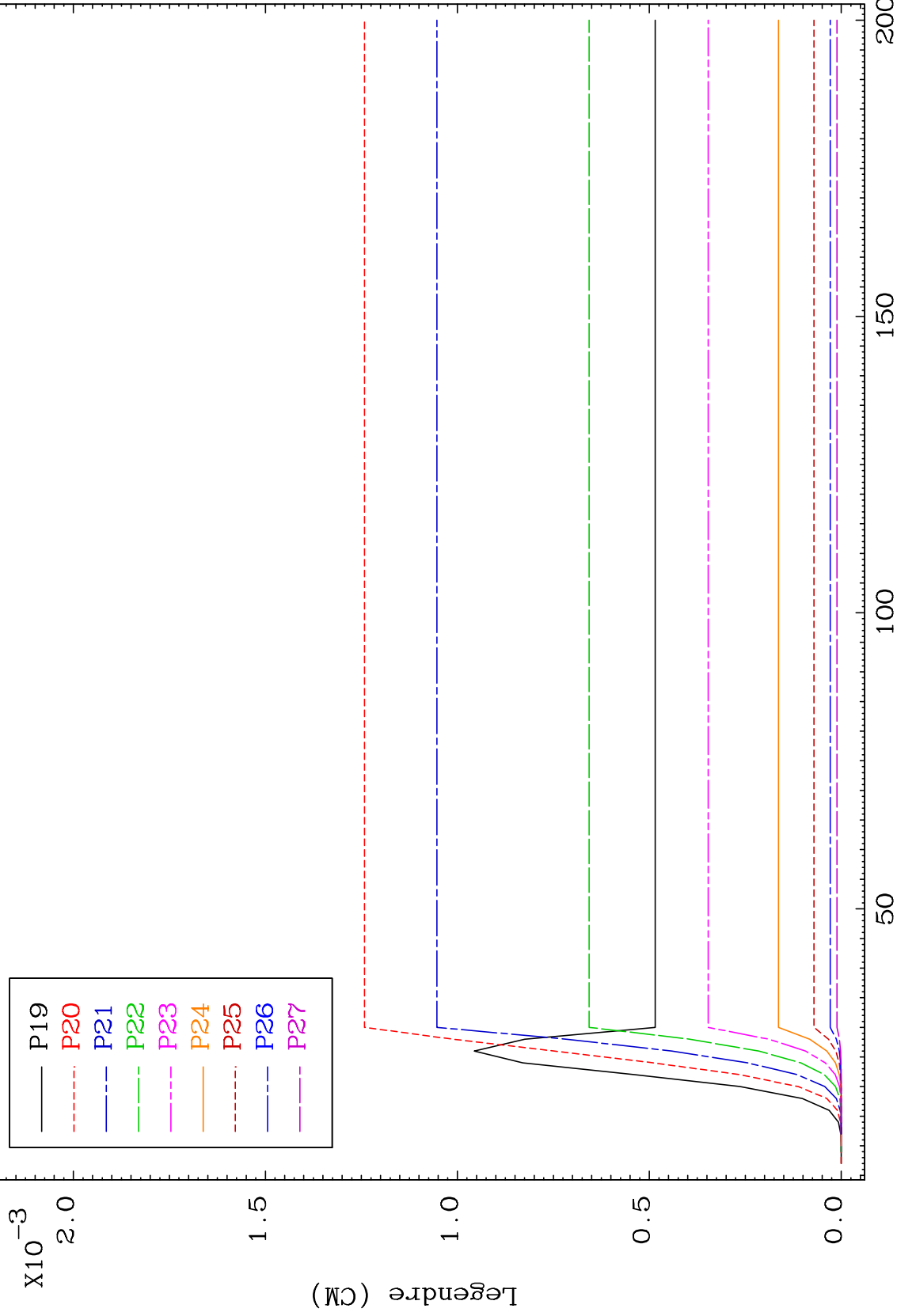
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149



106

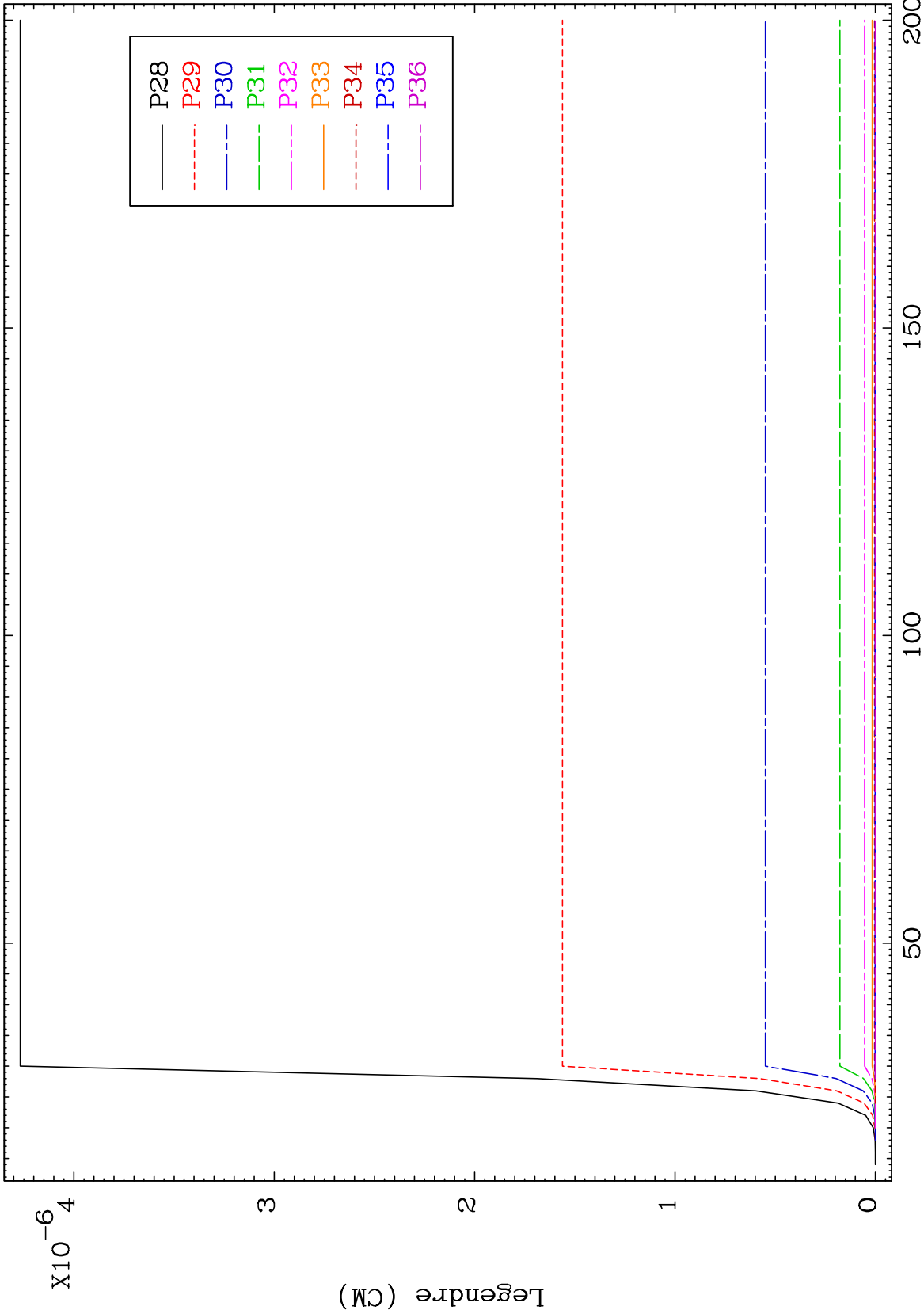
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149

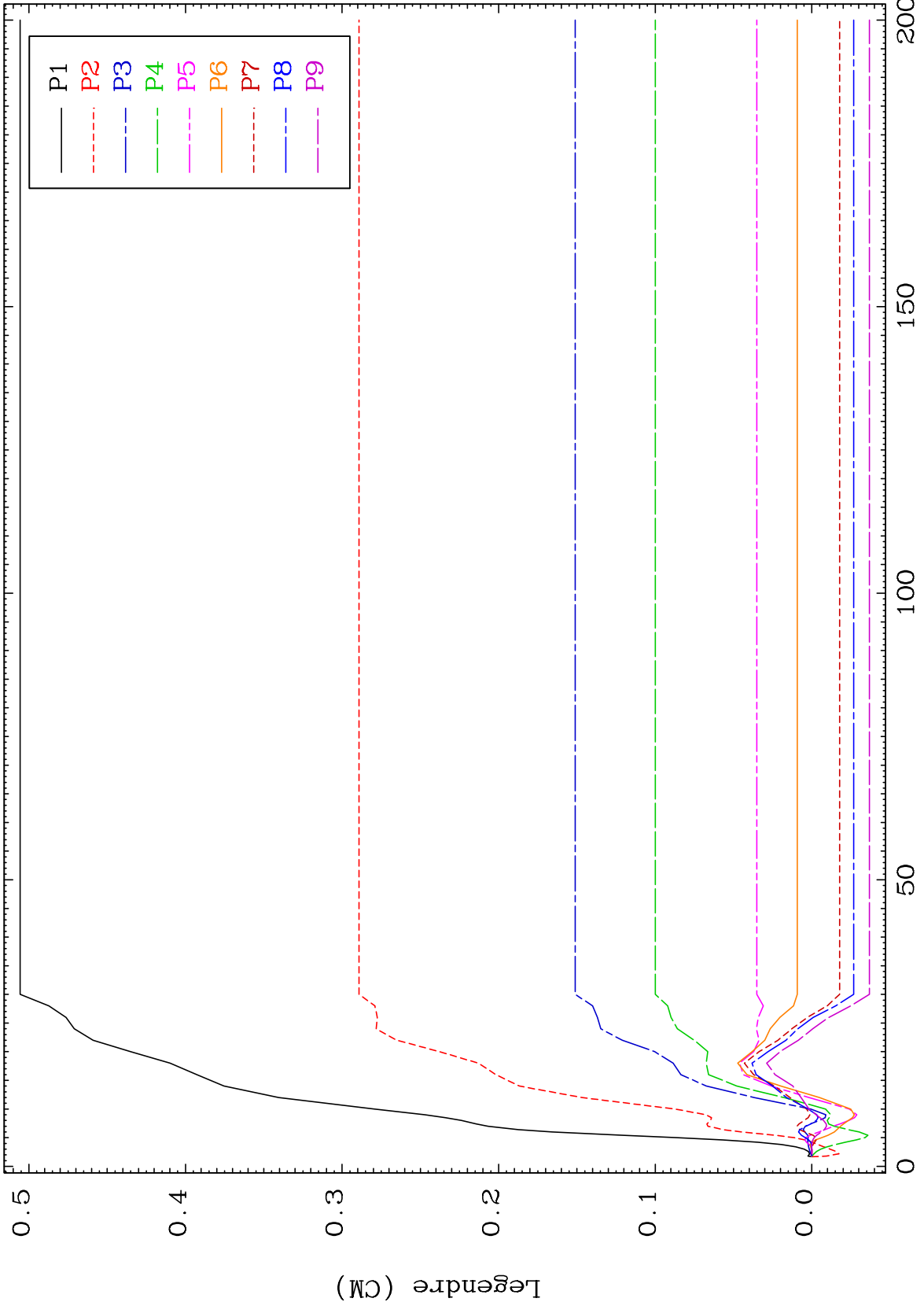


107

Incident Energy (MeV)

64-Gd-149

MAT 6416 MT= 73 (n,n') Level Legendre Coefficients 64-Gd-149

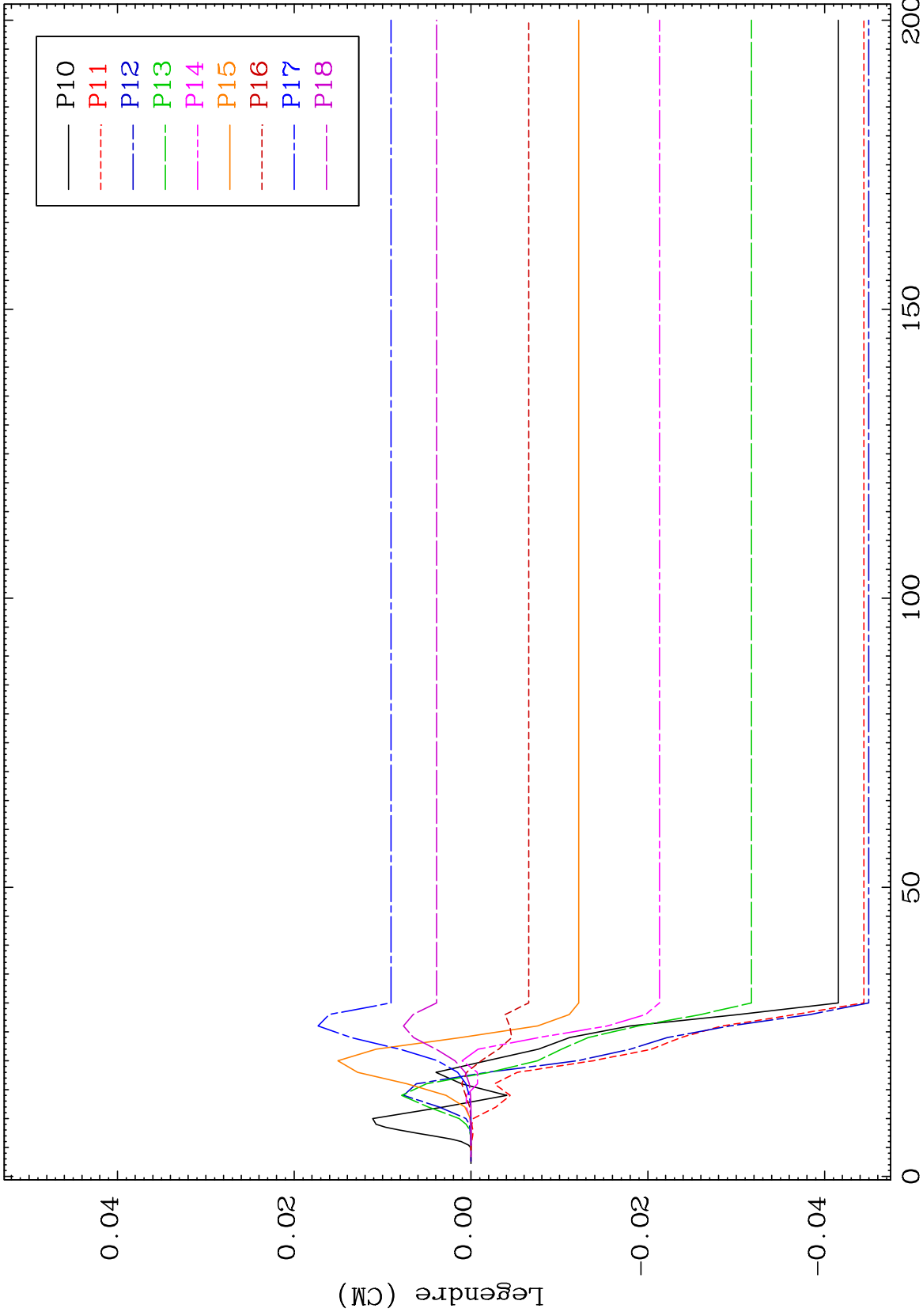


108 64-Gd-149

MAT 6416

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

64-Gd-149



109

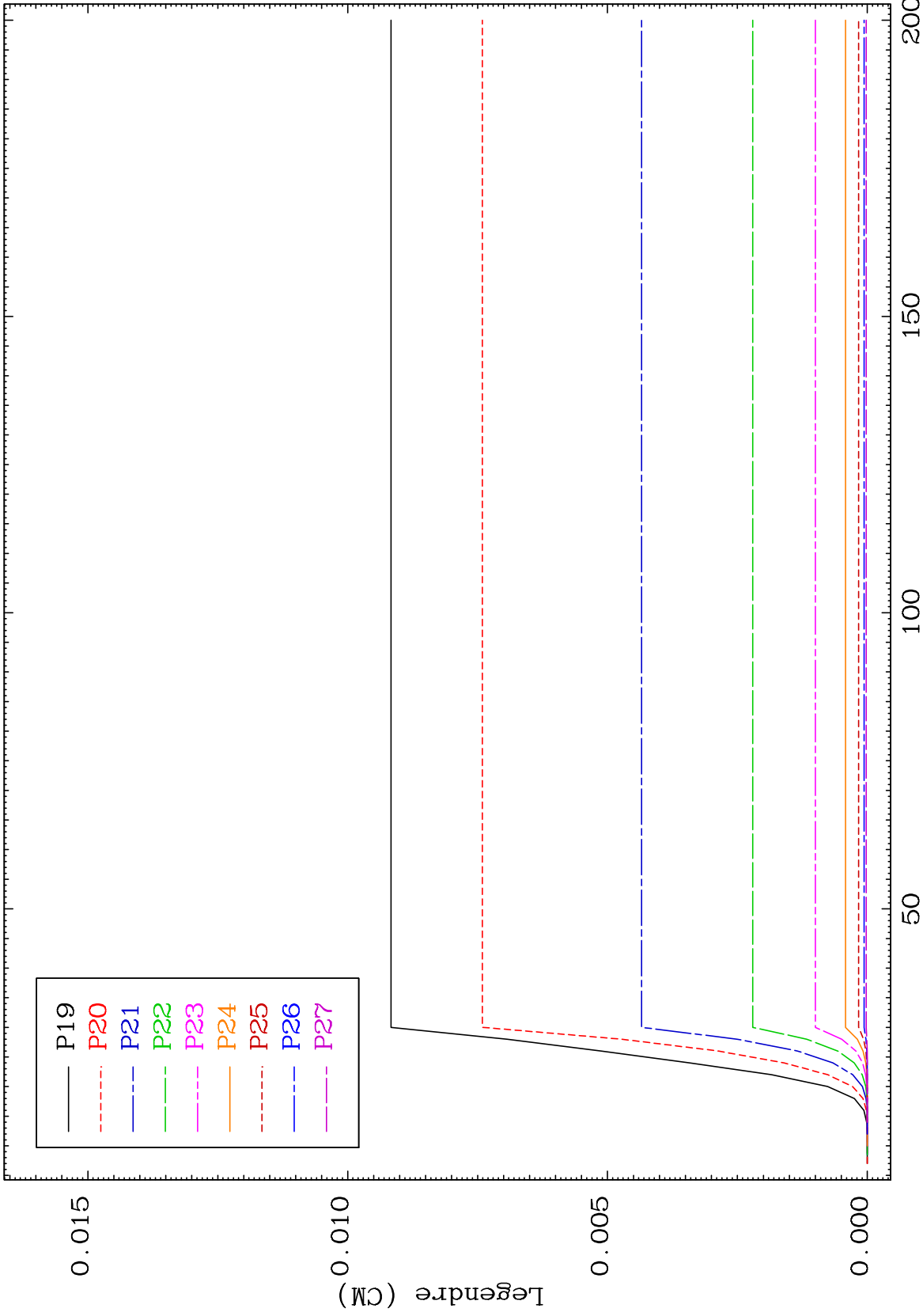
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149



110

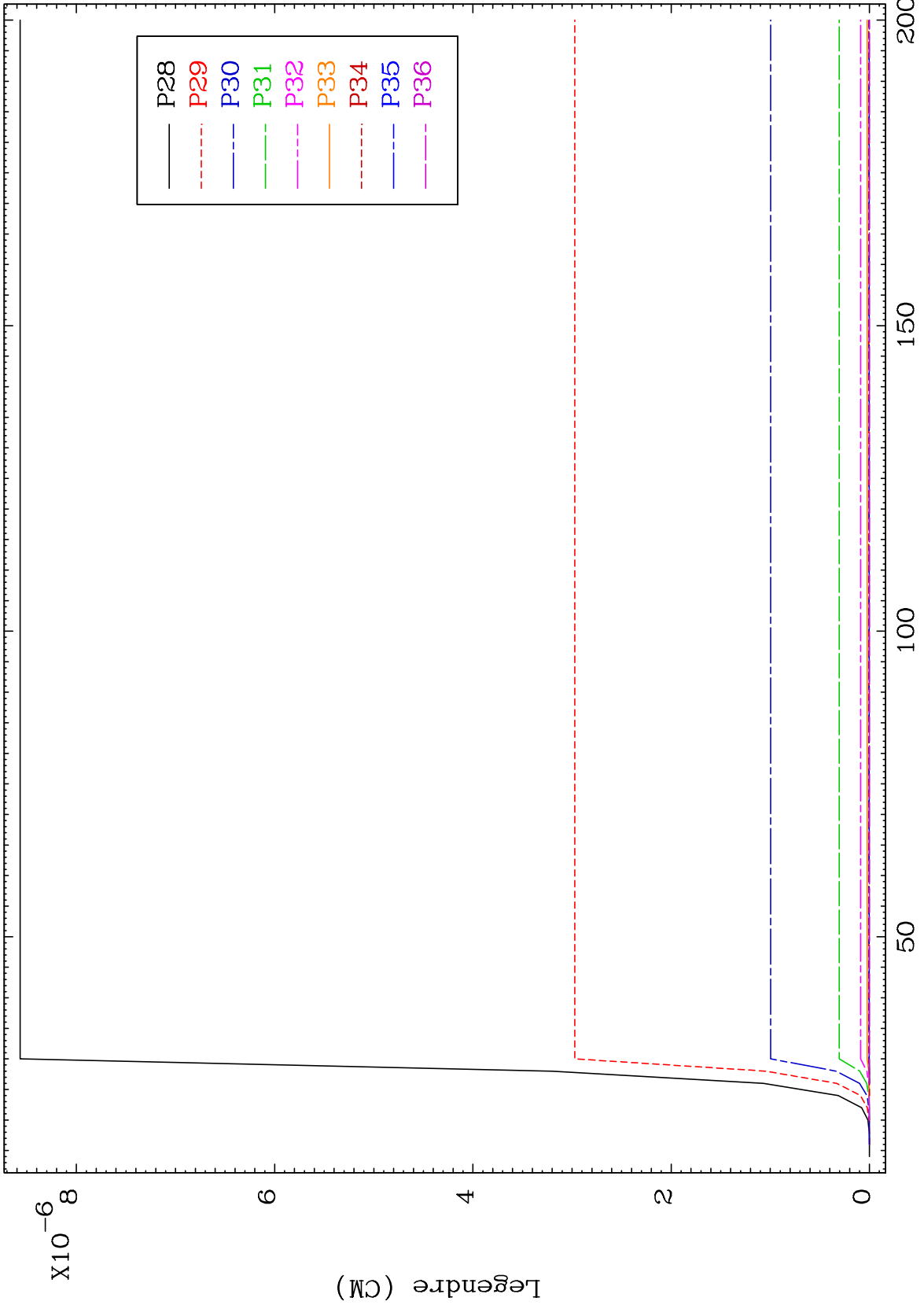
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149



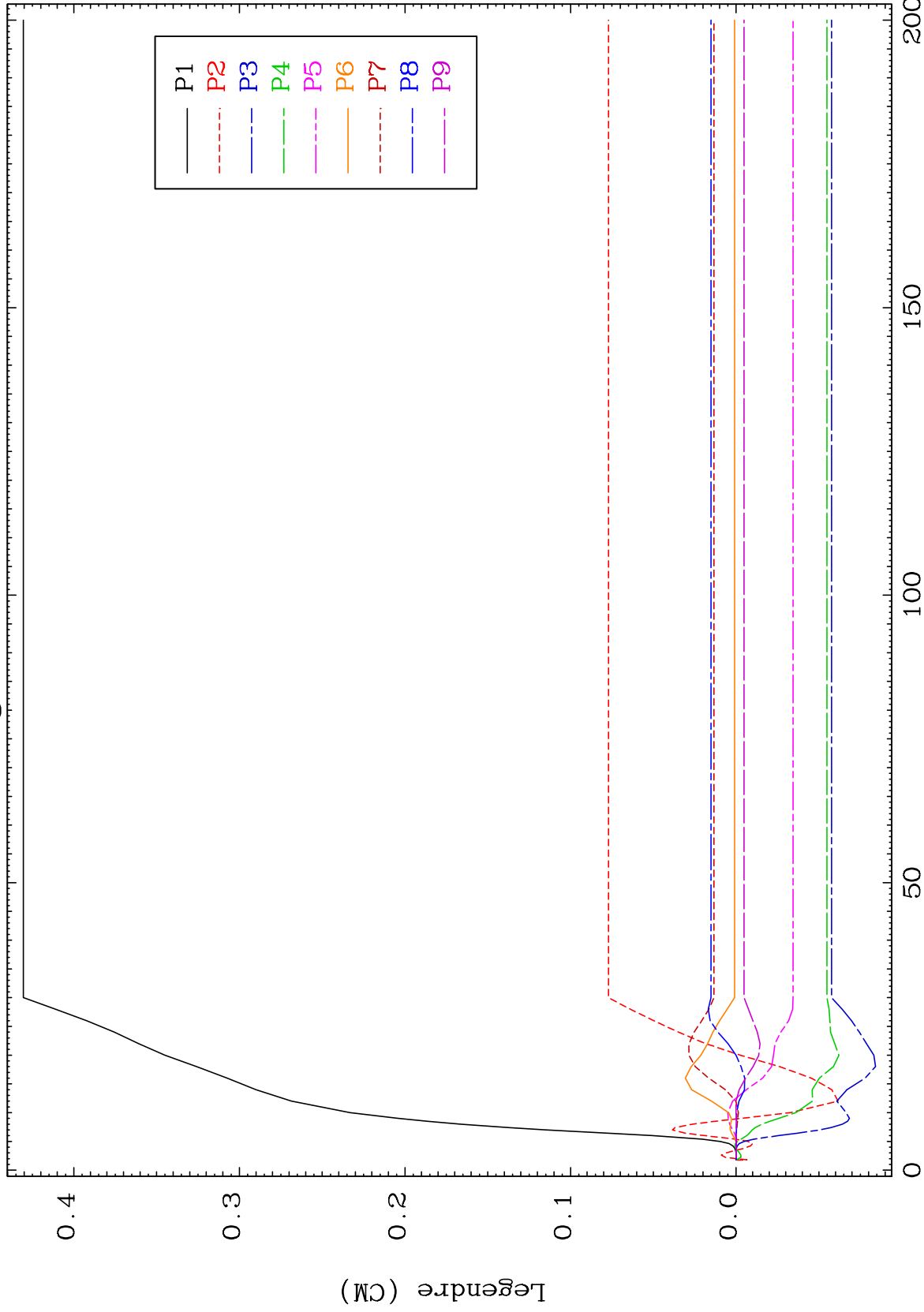
111

64-Gd-149

MAT 6416

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

64-Gd-149



112

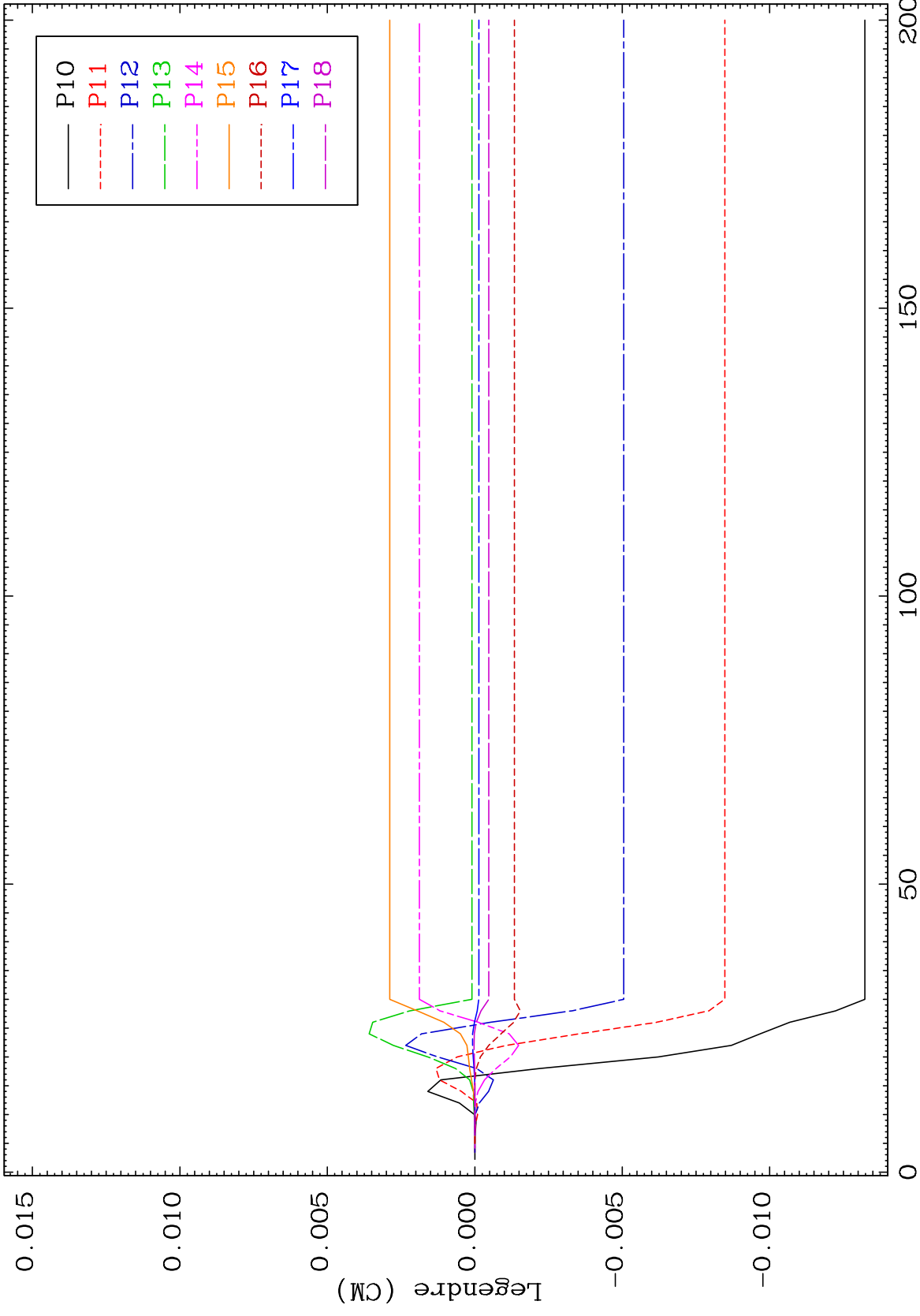
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149



113

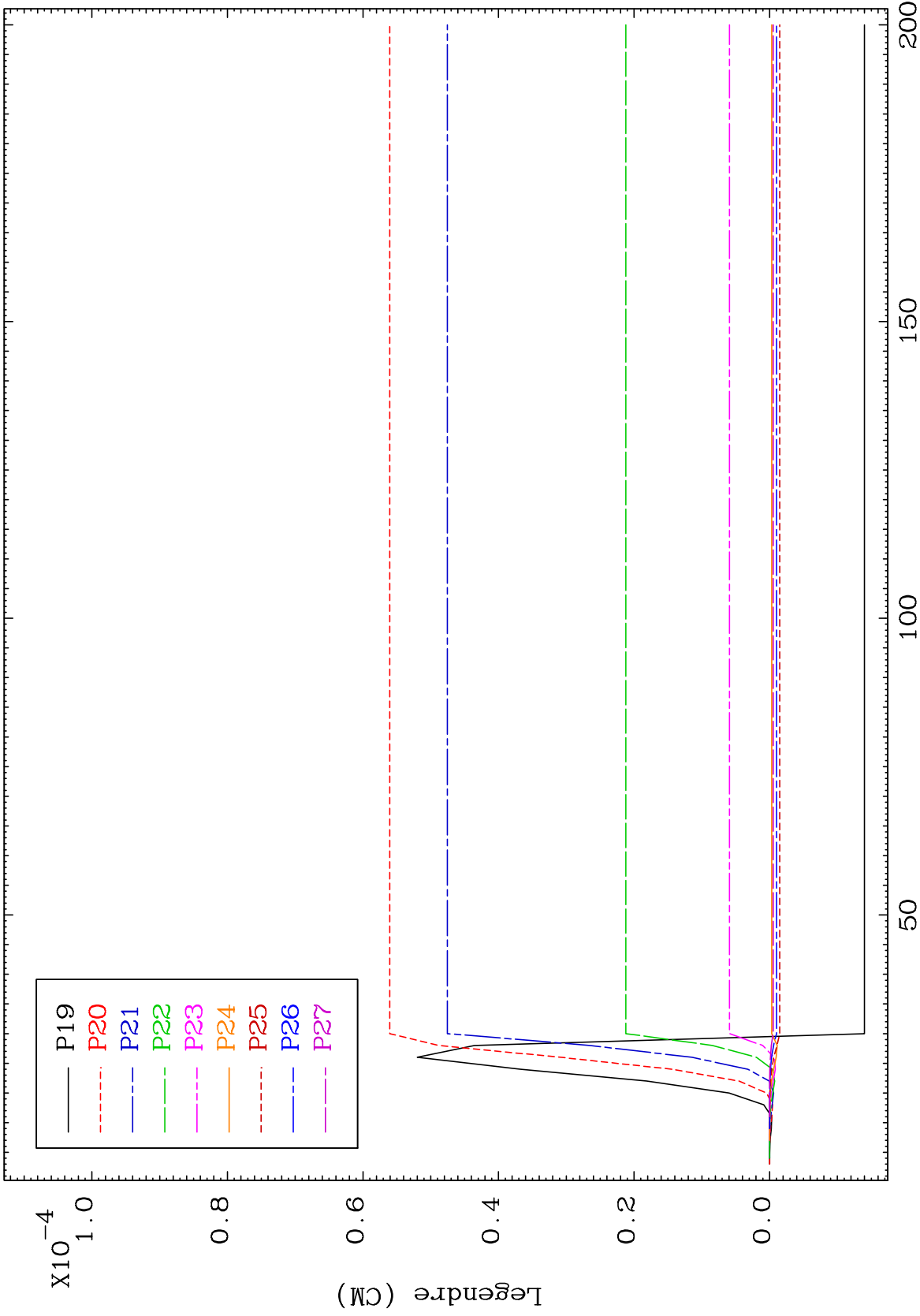
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149



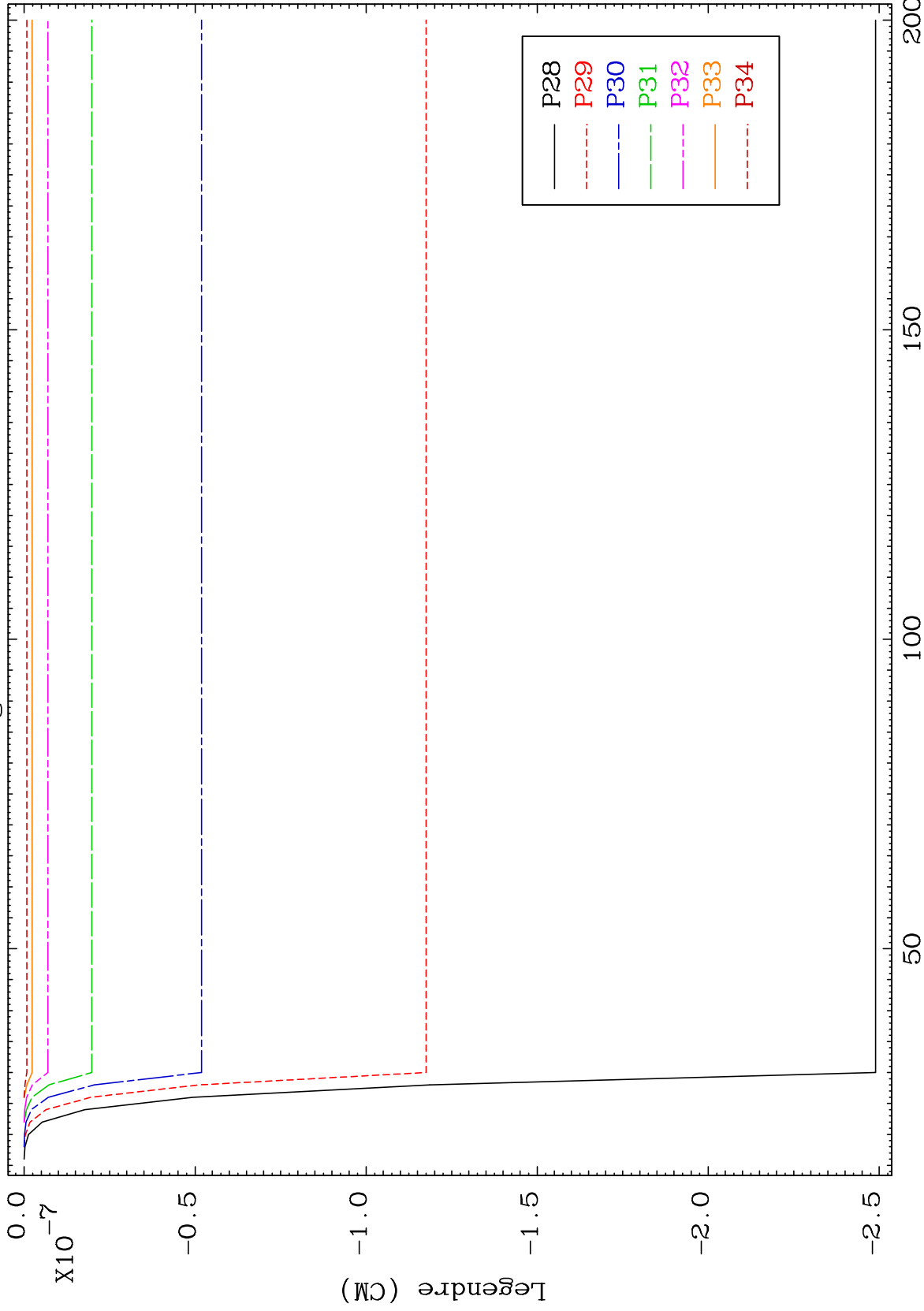
114

64-Gd-149

MAT 6416

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

64-Gd-149

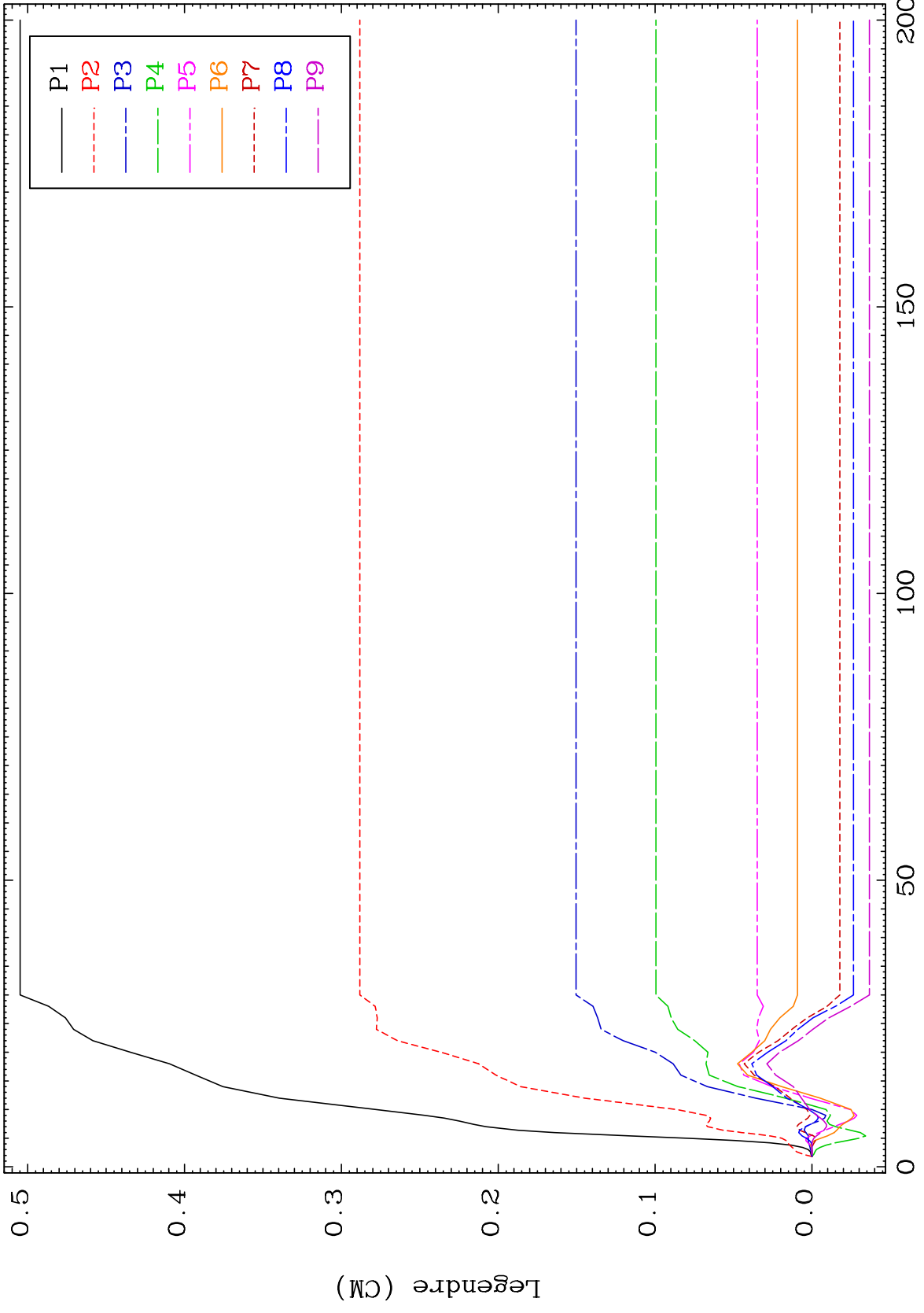


64-Gd-149

Incident Energy (MeV)

115

MAT 6416 MT= 75 (n,n') Level Legendre Coefficients 64-Gd-149

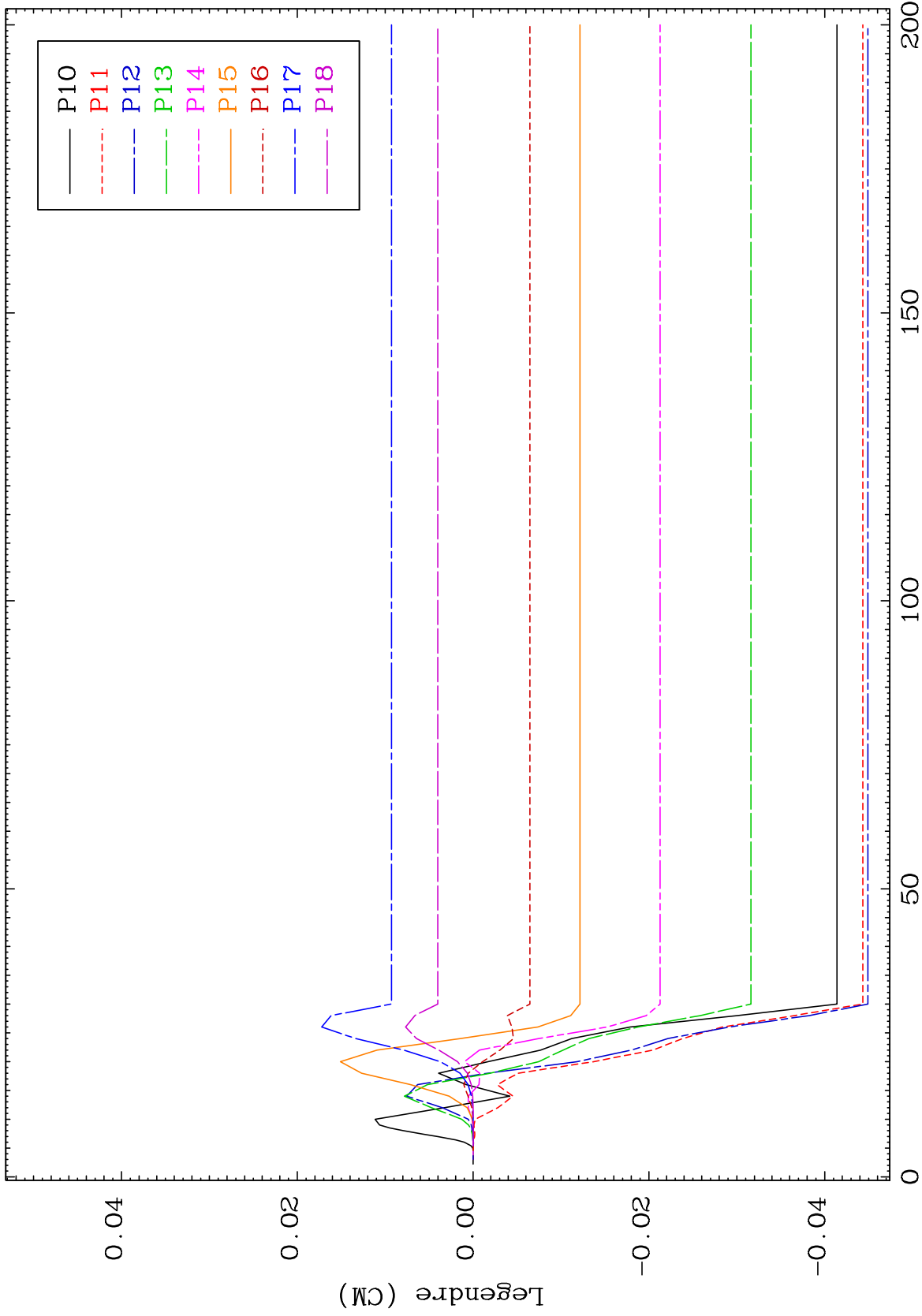


116 64-Gd-149

MAT 6416

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

64-Gd-149



117

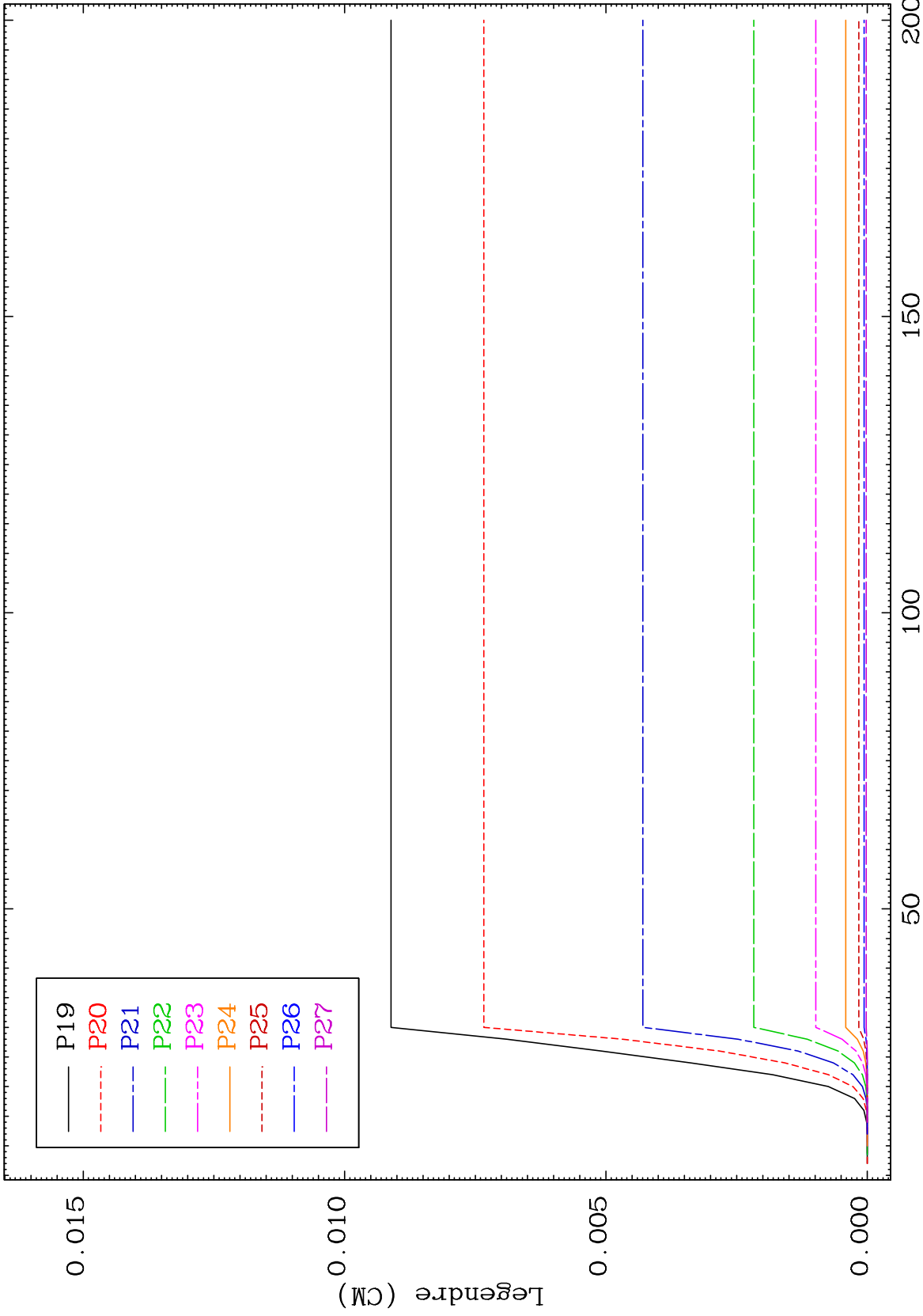
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149



118

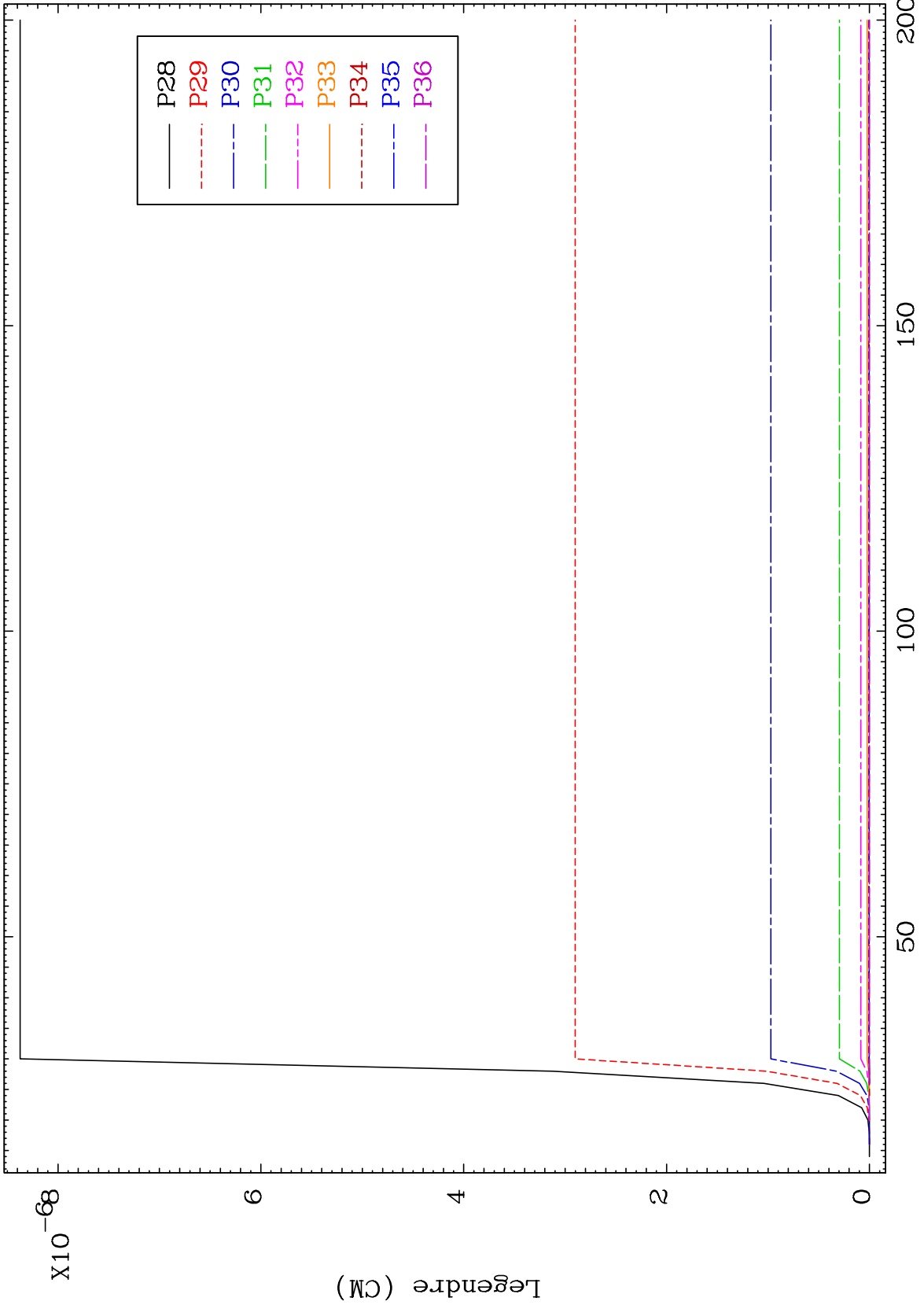
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149



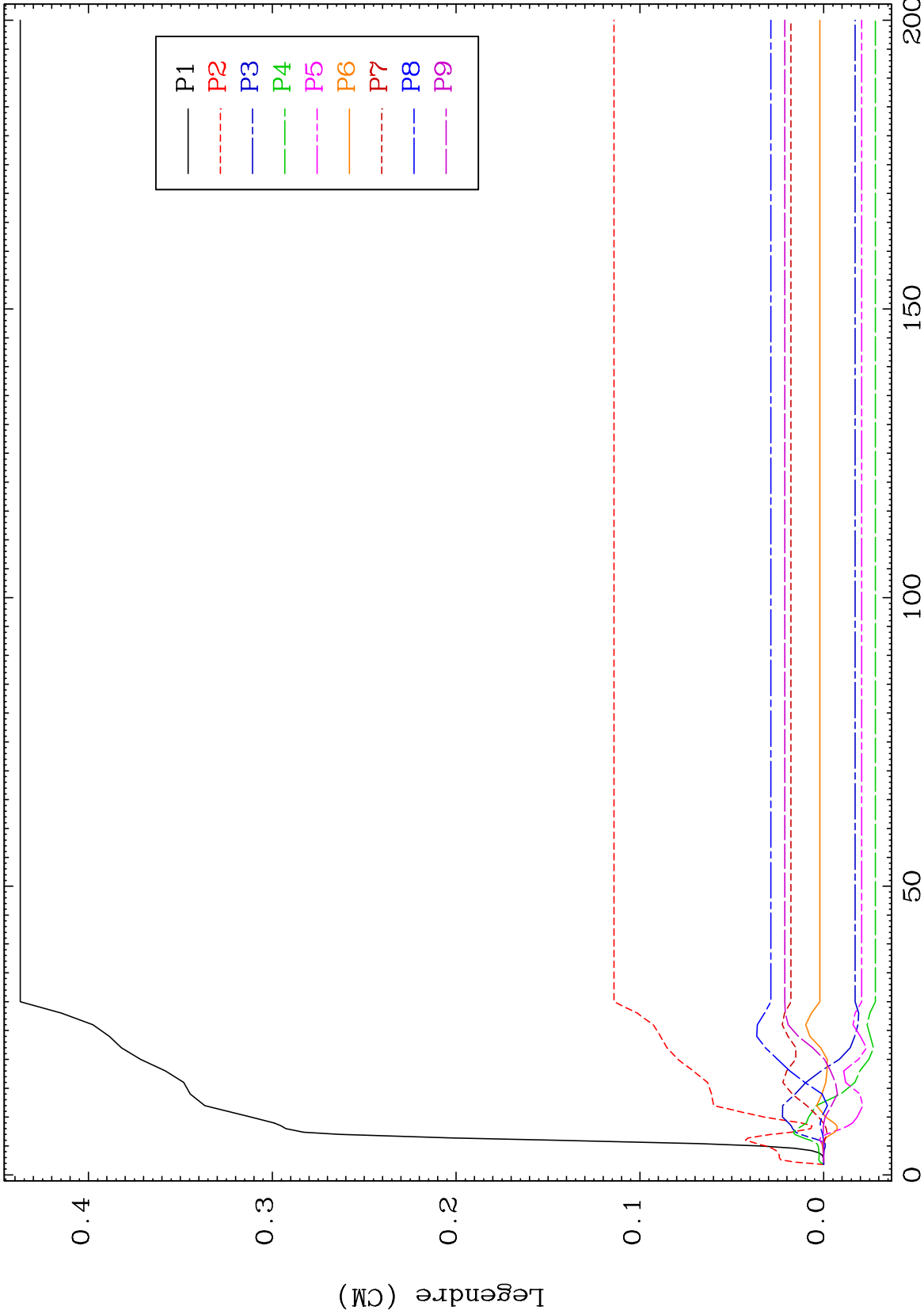
119

64-Gd-149

MAT 6416

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

64-Gd-149



64-Gd-149

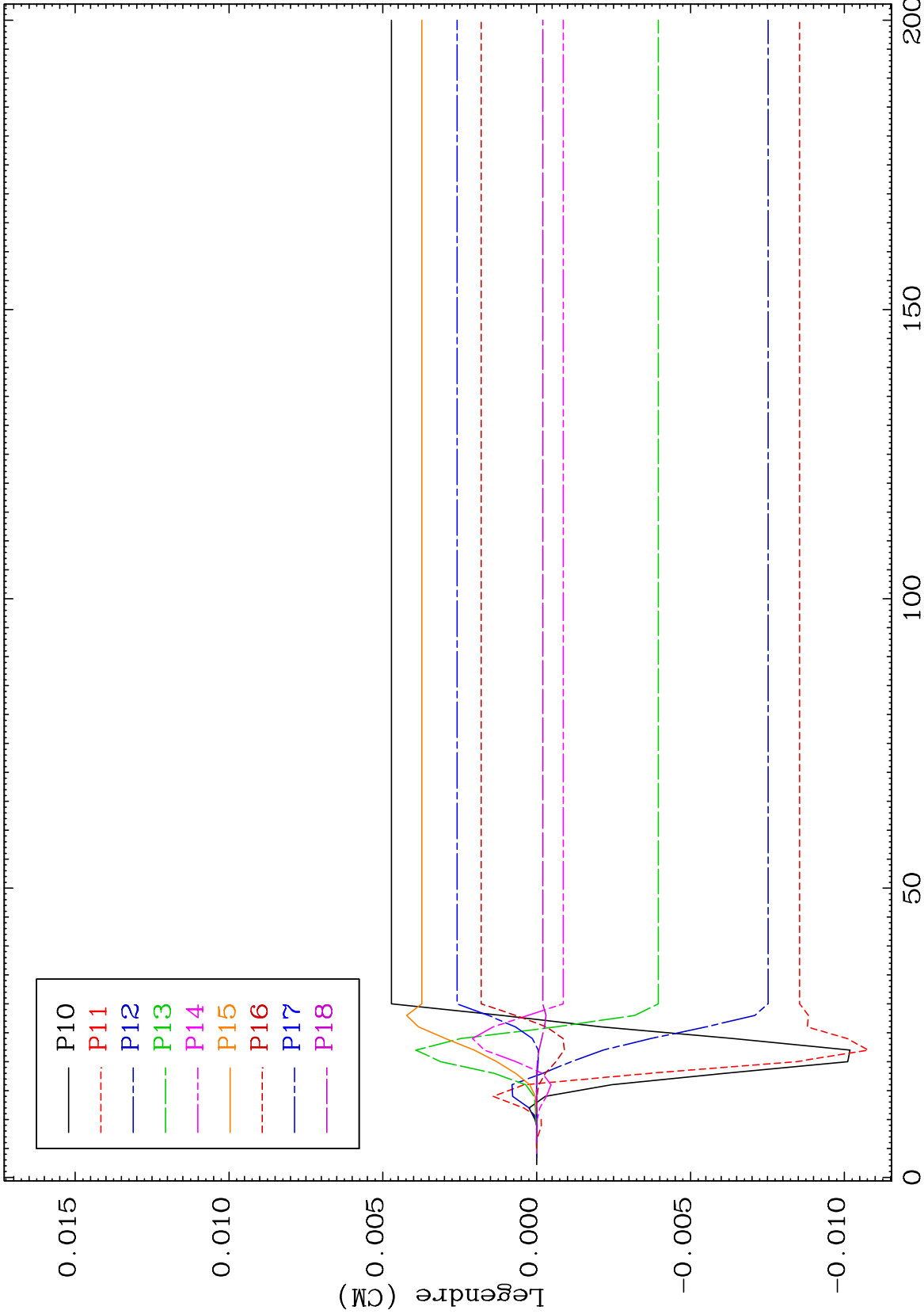
Incident Energy (MeV)

120

MAT 6416

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

64-Gd-149



121

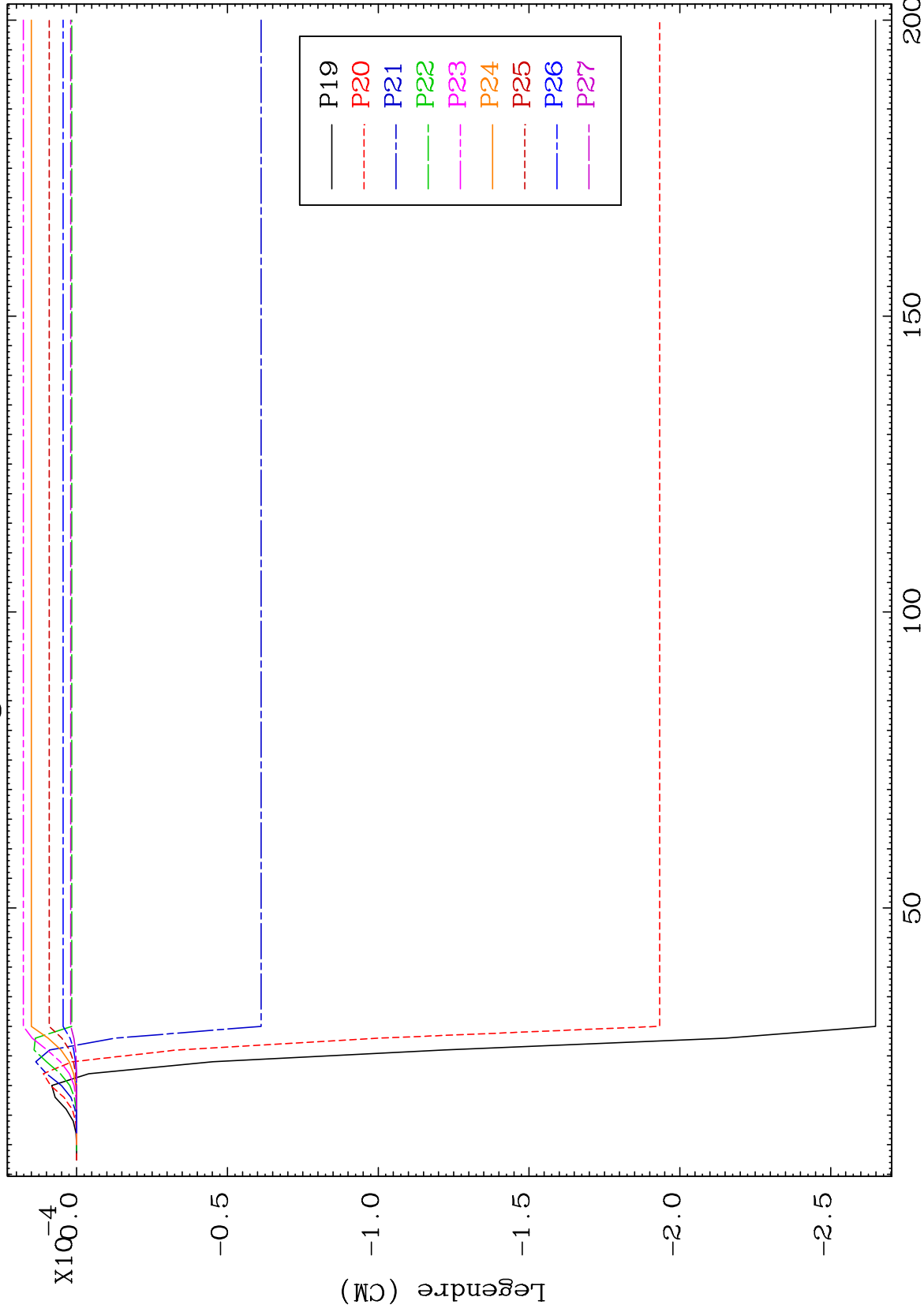
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149



64-Gd-149

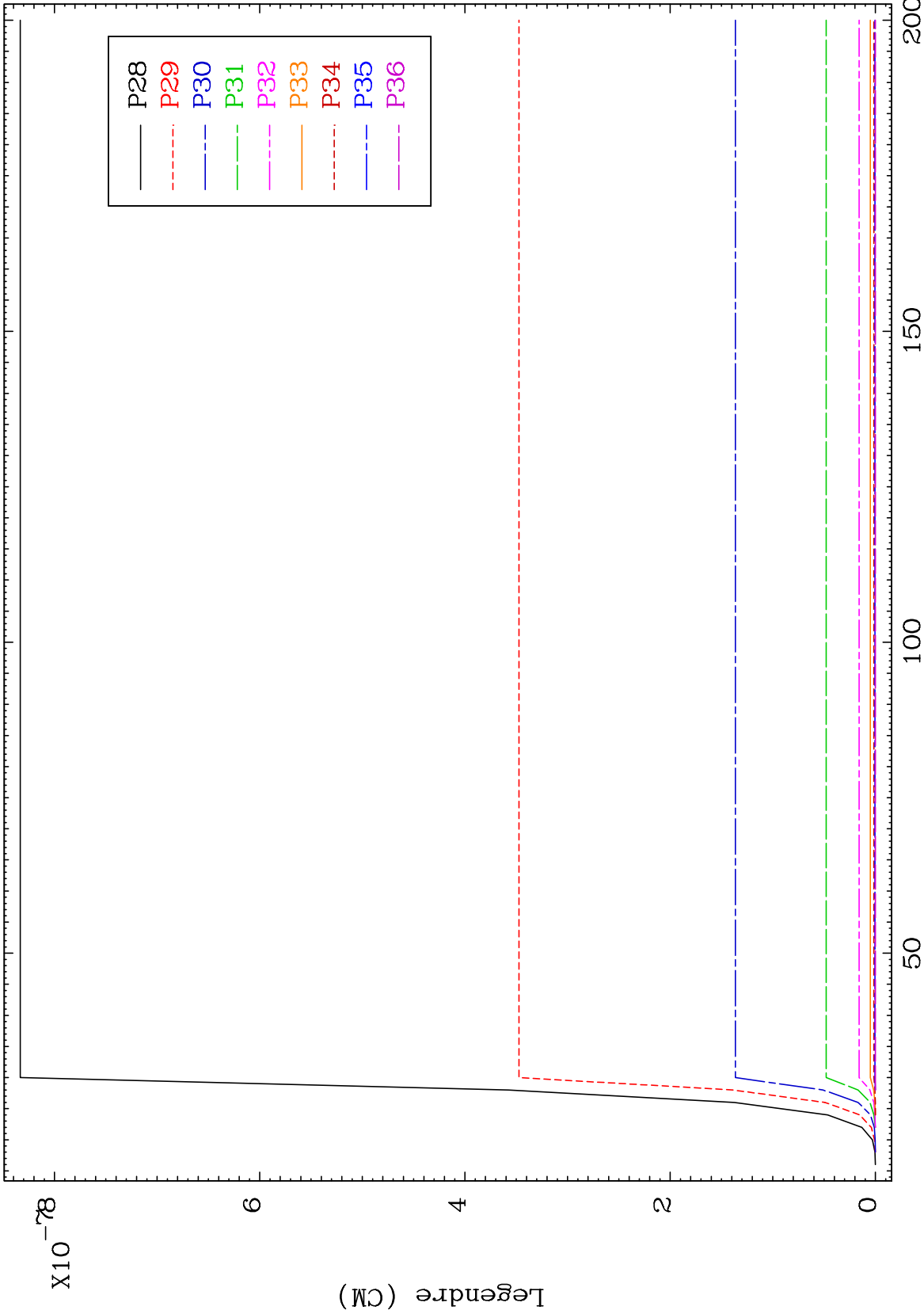
Incident Energy (MeV)

122

MAT 6416

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

64-Gd-149

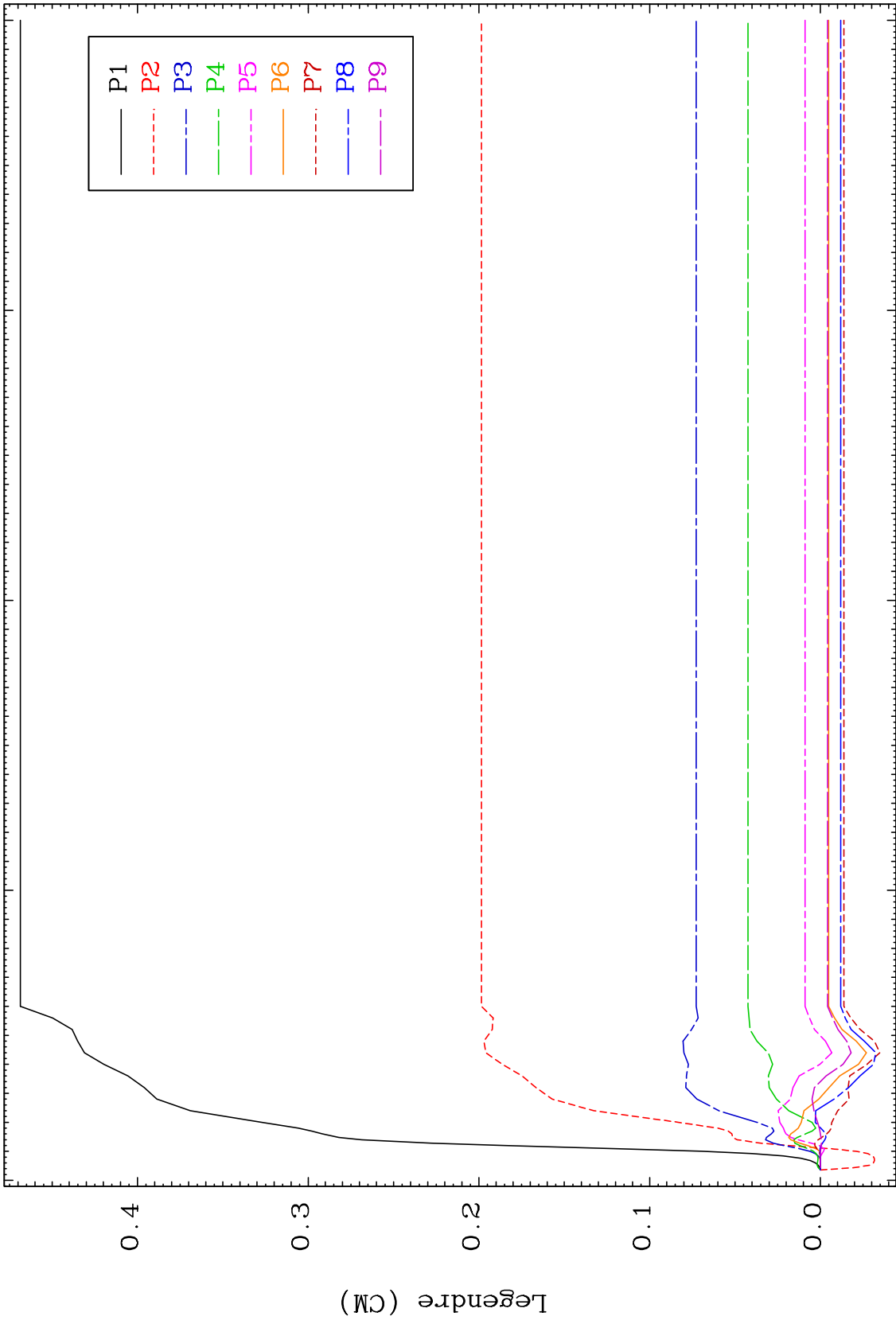


123

Incident Energy (MeV)

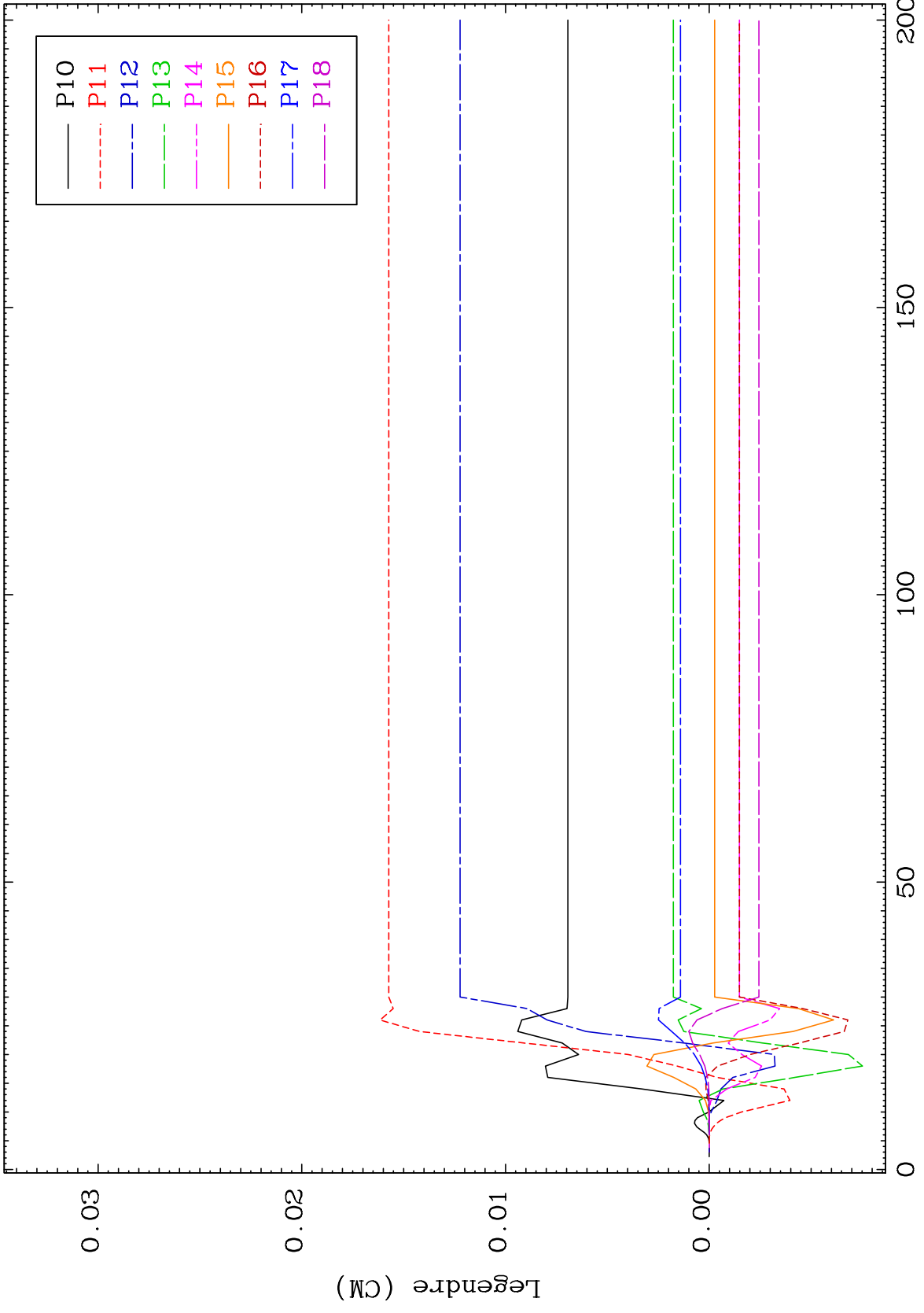
64-Gd-149

MAT 6416 MT= 77 (n,n') Level Legendre Coefficients 64-Gd-149



124 64-Gd-149

MAT 6416 MT= 77 (n,n') Level Legendre Coefficients 64-Gd-149

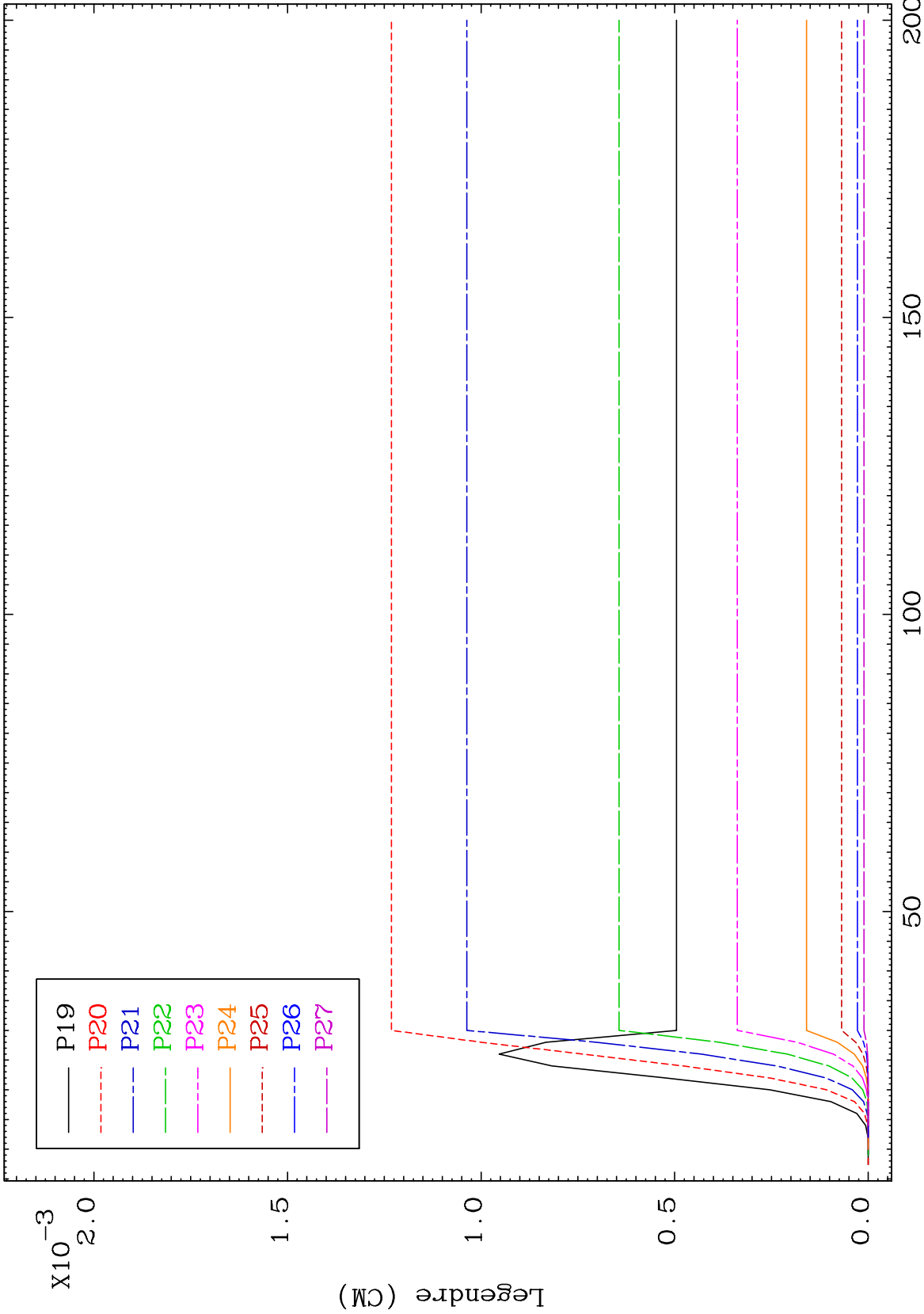


125 Incident Energy (MeV) 64-Gd-149

MAT 6416

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

64-Gd-149



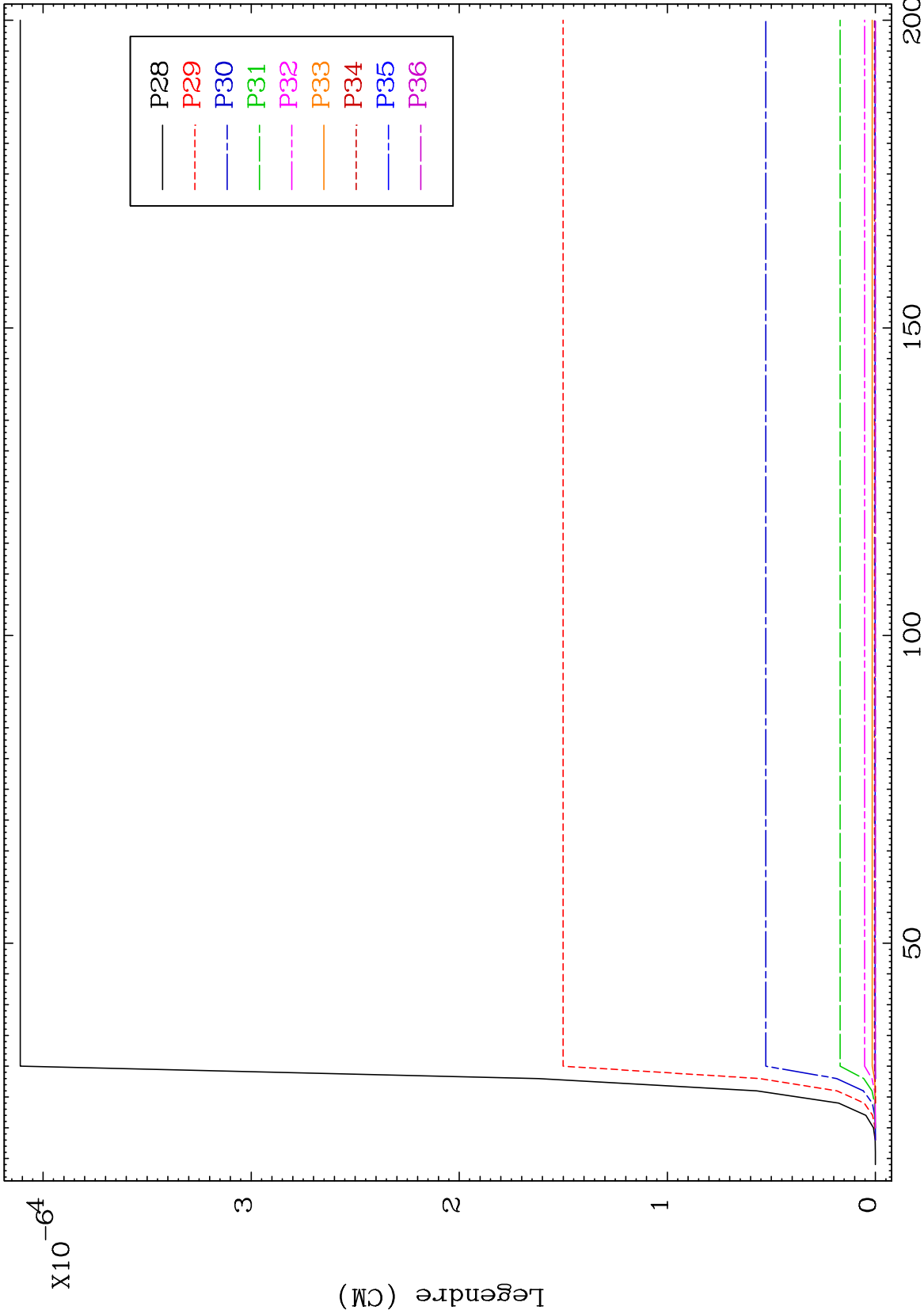
126

64-Gd-149

MAT 6416

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

64-Gd-149



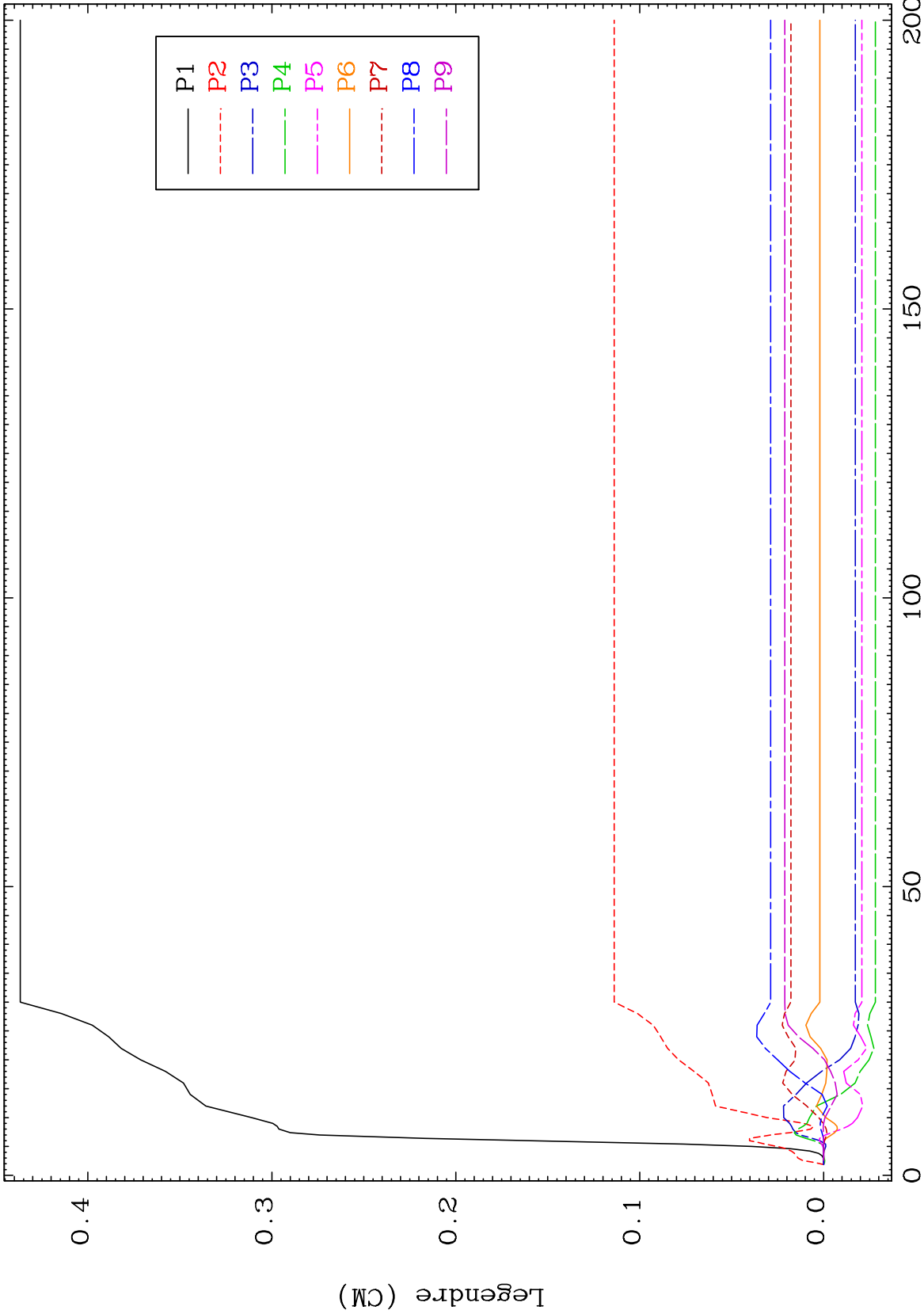
127

64-Gd-149

MAT 6416

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

64-Gd-149



128

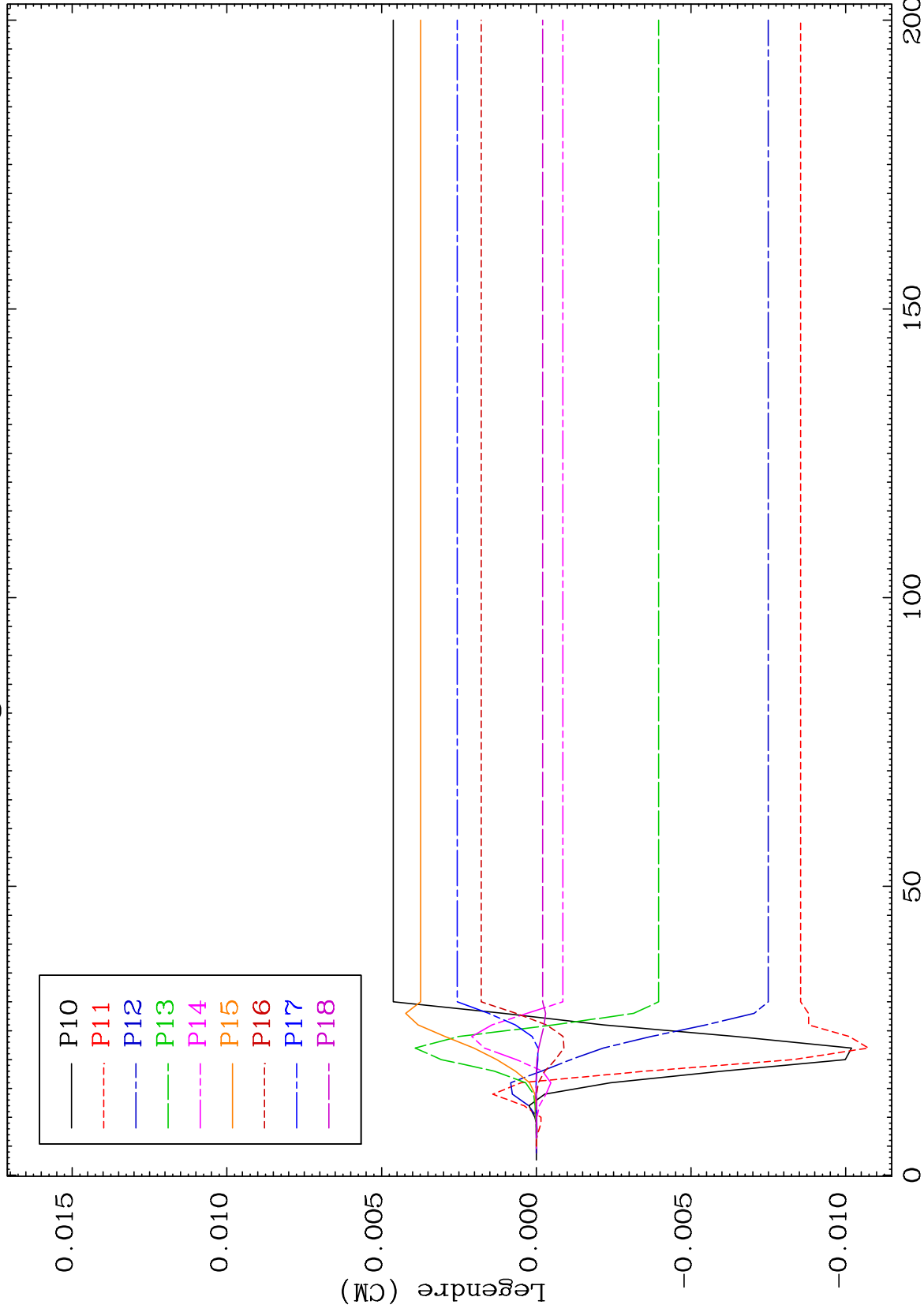
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

64-Gd-149

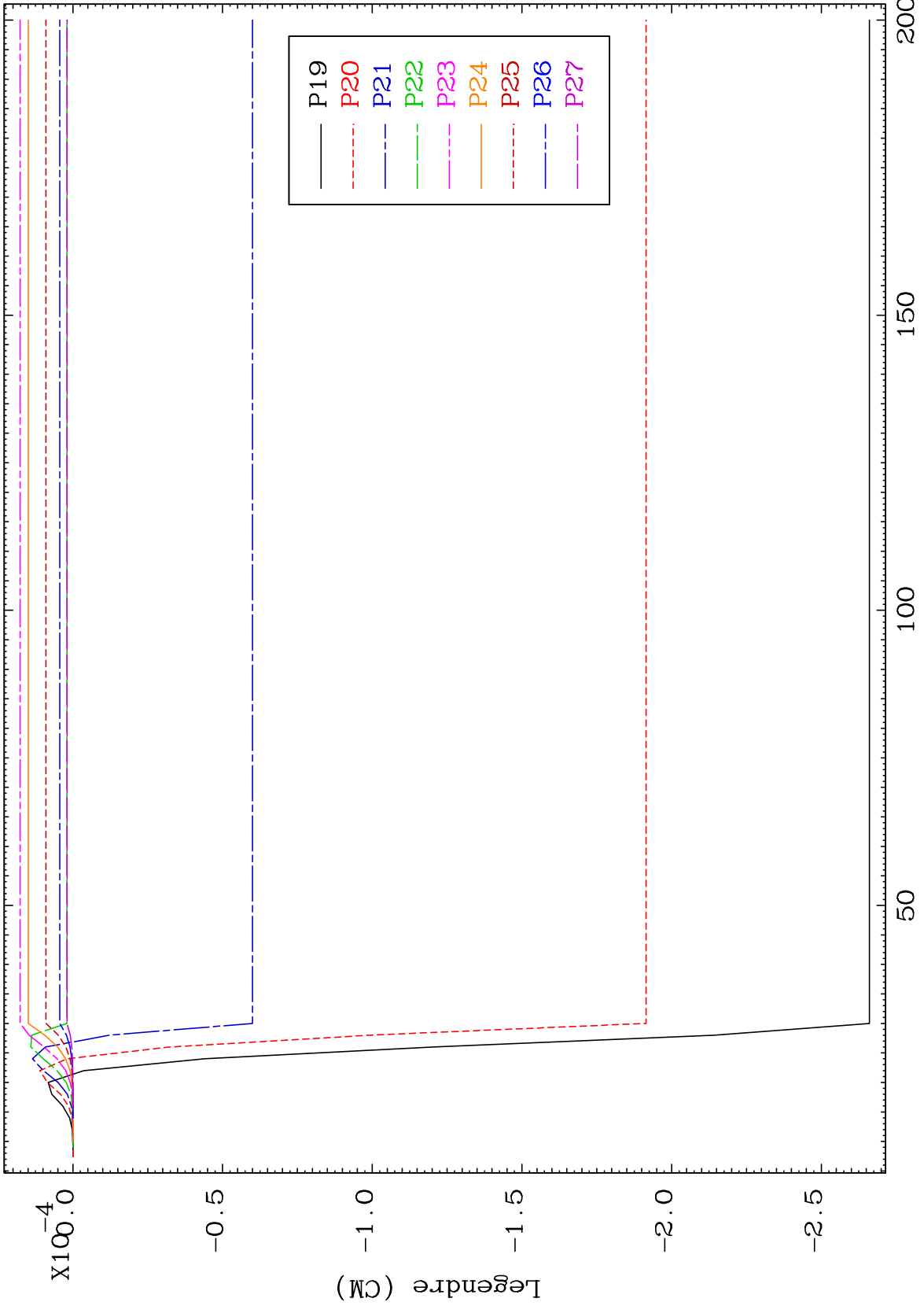


129

Incident Energy (MeV)

64-Gd-149

MAT 6416 MT= 78 (n,n') Level Legendre Coefficients 64-Gd-149

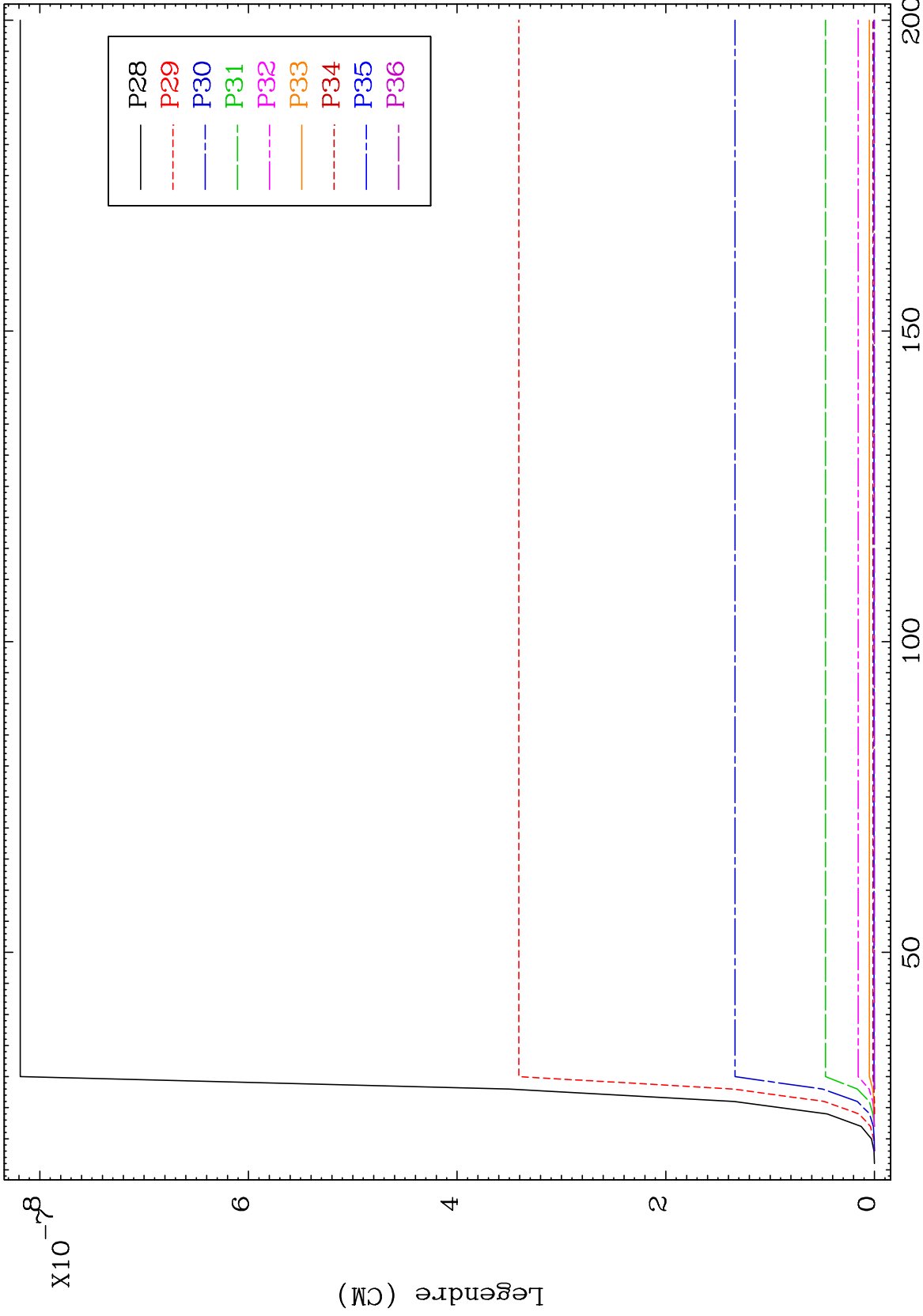


130 64-Gd-149

MAT 6416

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

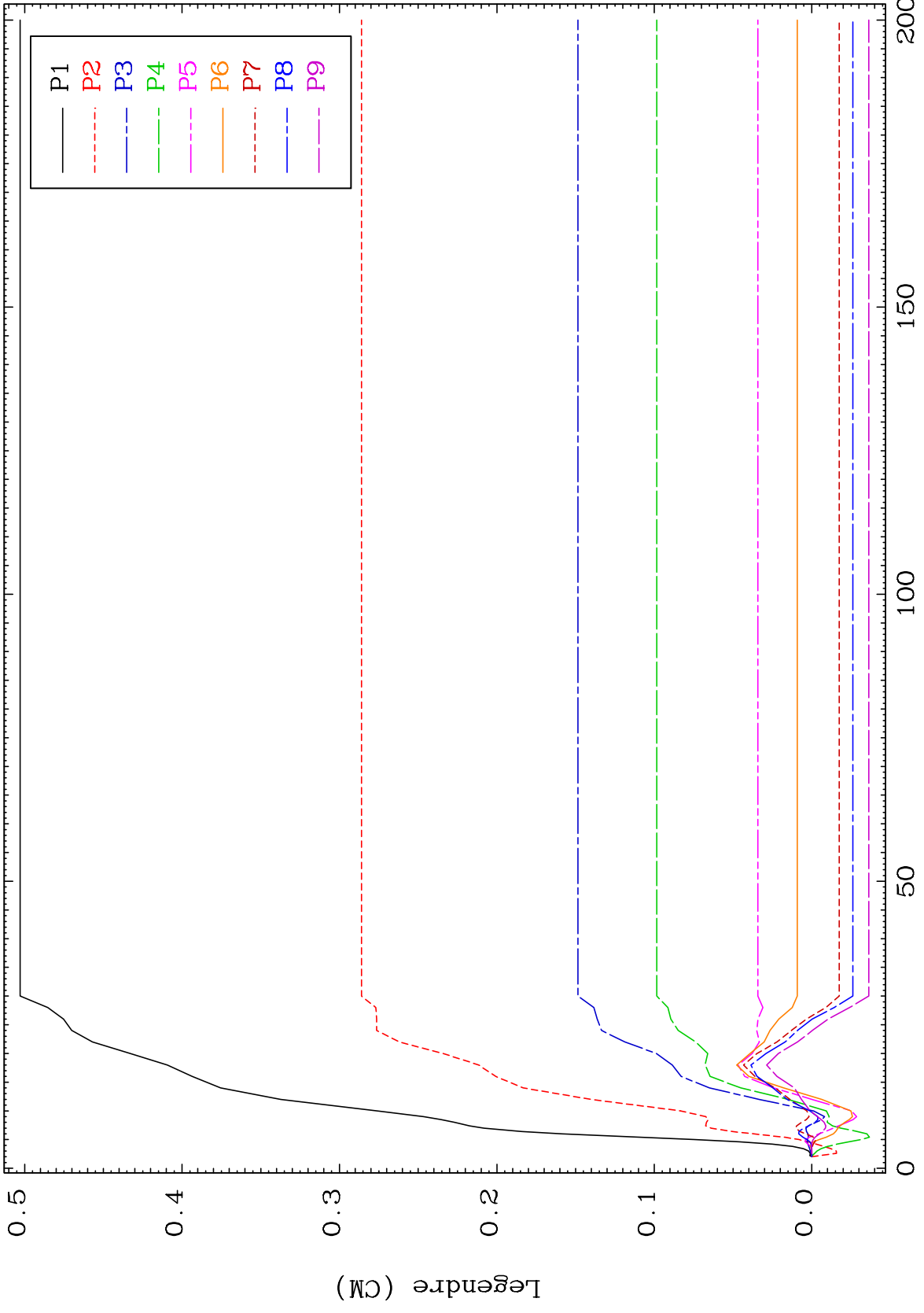
64-Gd-149



131

64-Gd-149

MAT 6416 MT= 79 (n,n') Level Legendre Coefficients 64-Gd-149

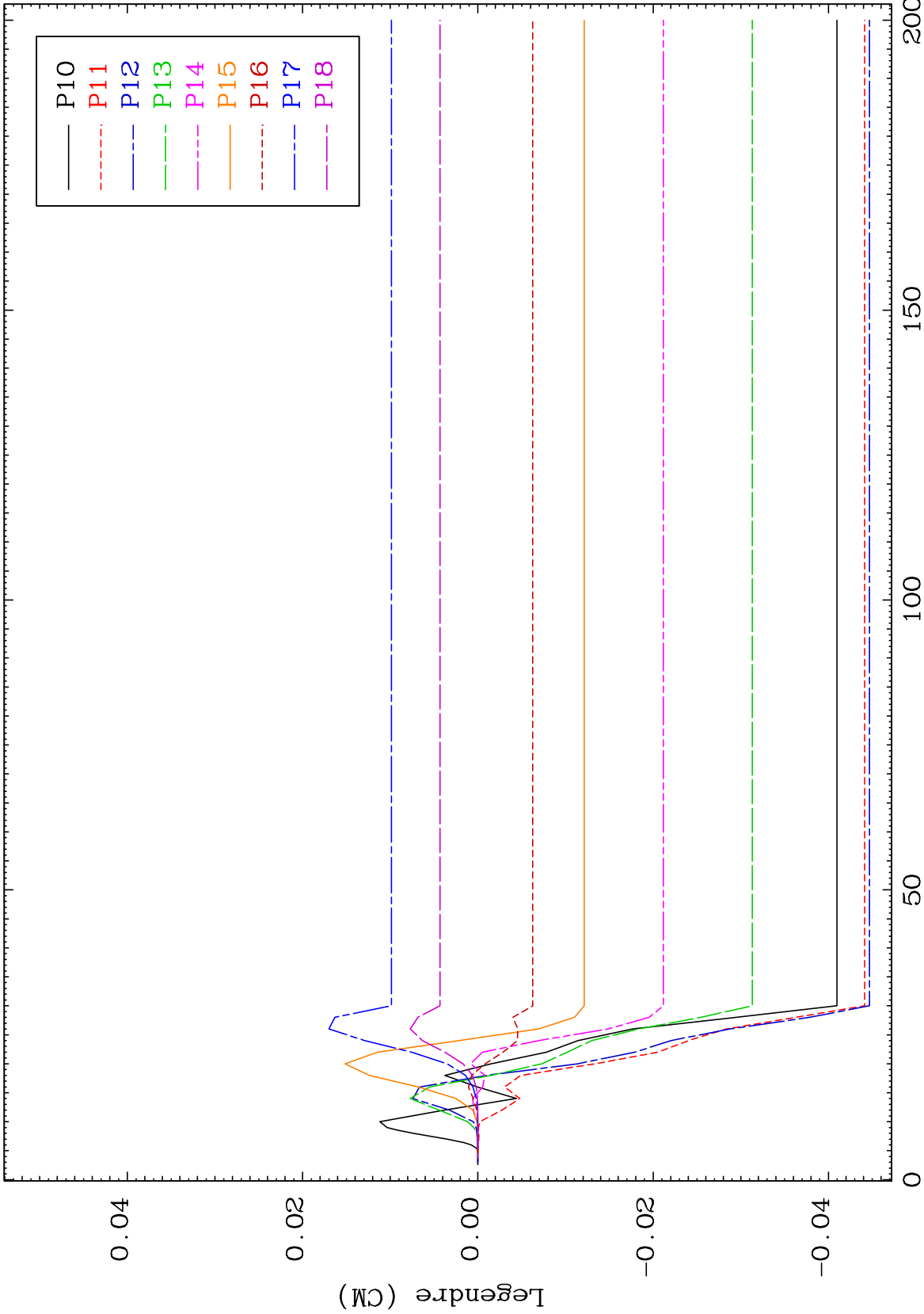


132 64-Gd-149

MAT 6416

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

64-Gd-149



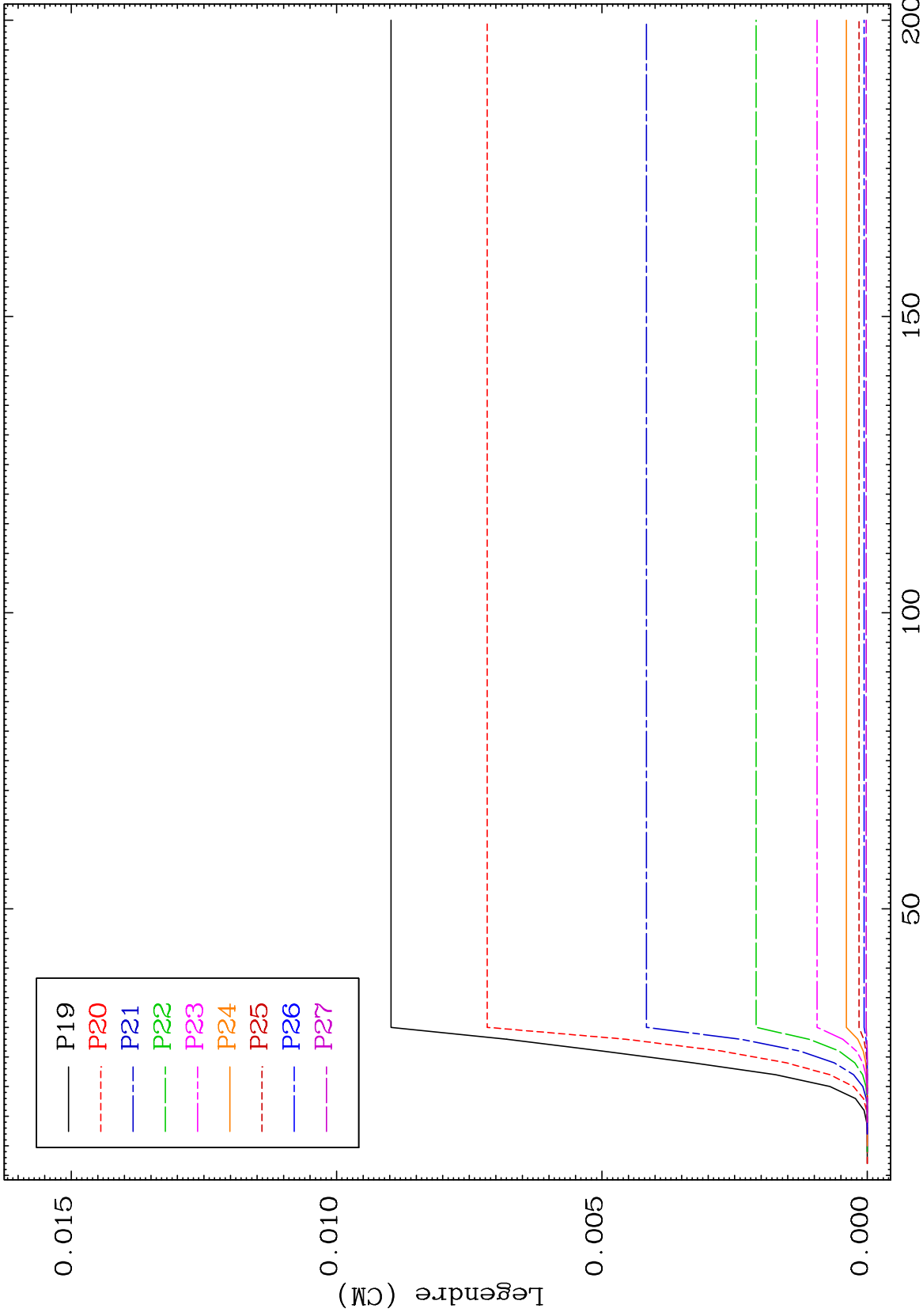
133

64-Gd-149

MAT 6416

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

64-Gd-149

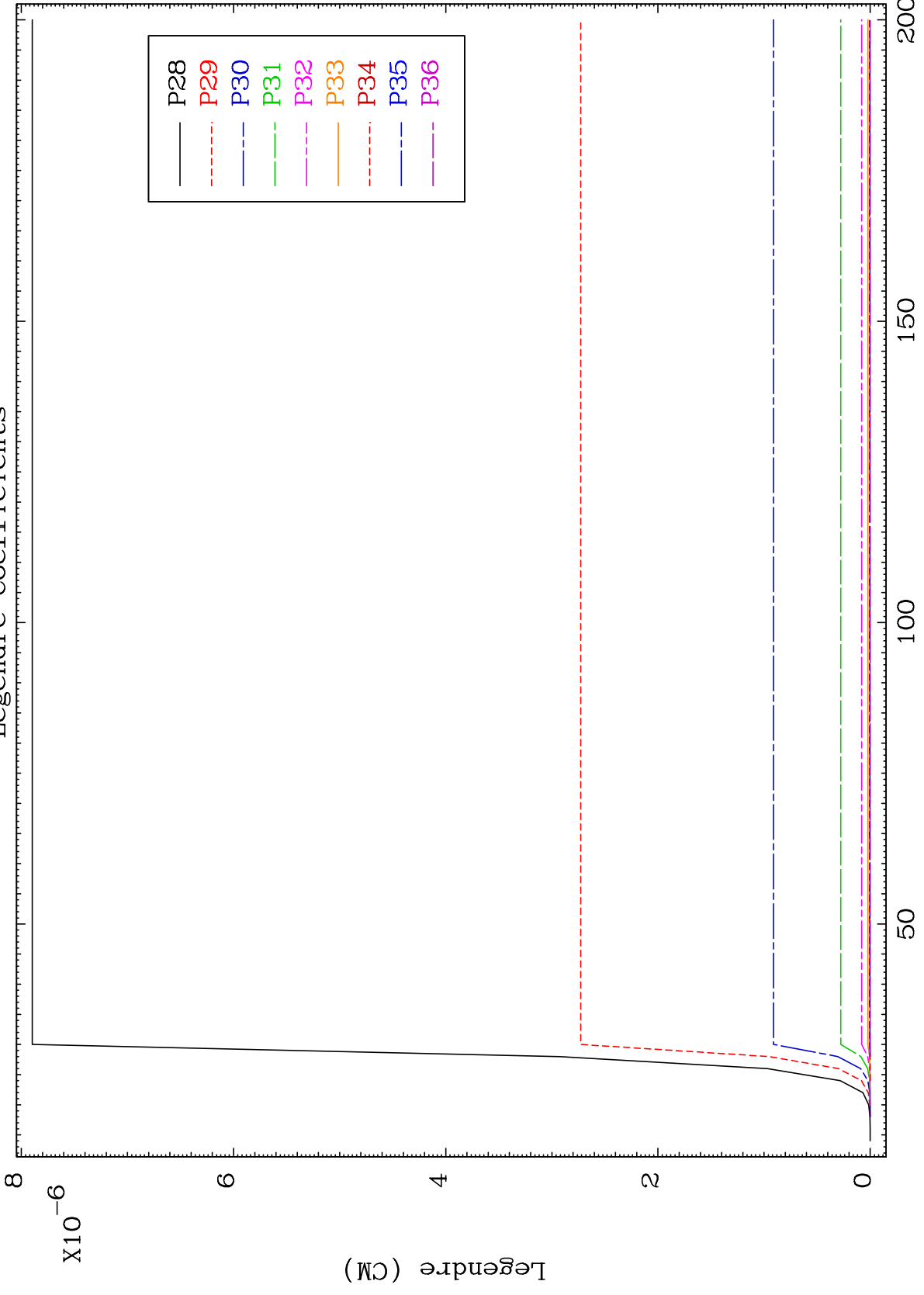


134

Incident Energy (MeV)

64-Gd-149

MAT 6416 MT= 79 (n,n') Level Legendre Coefficients 64-Gd-149



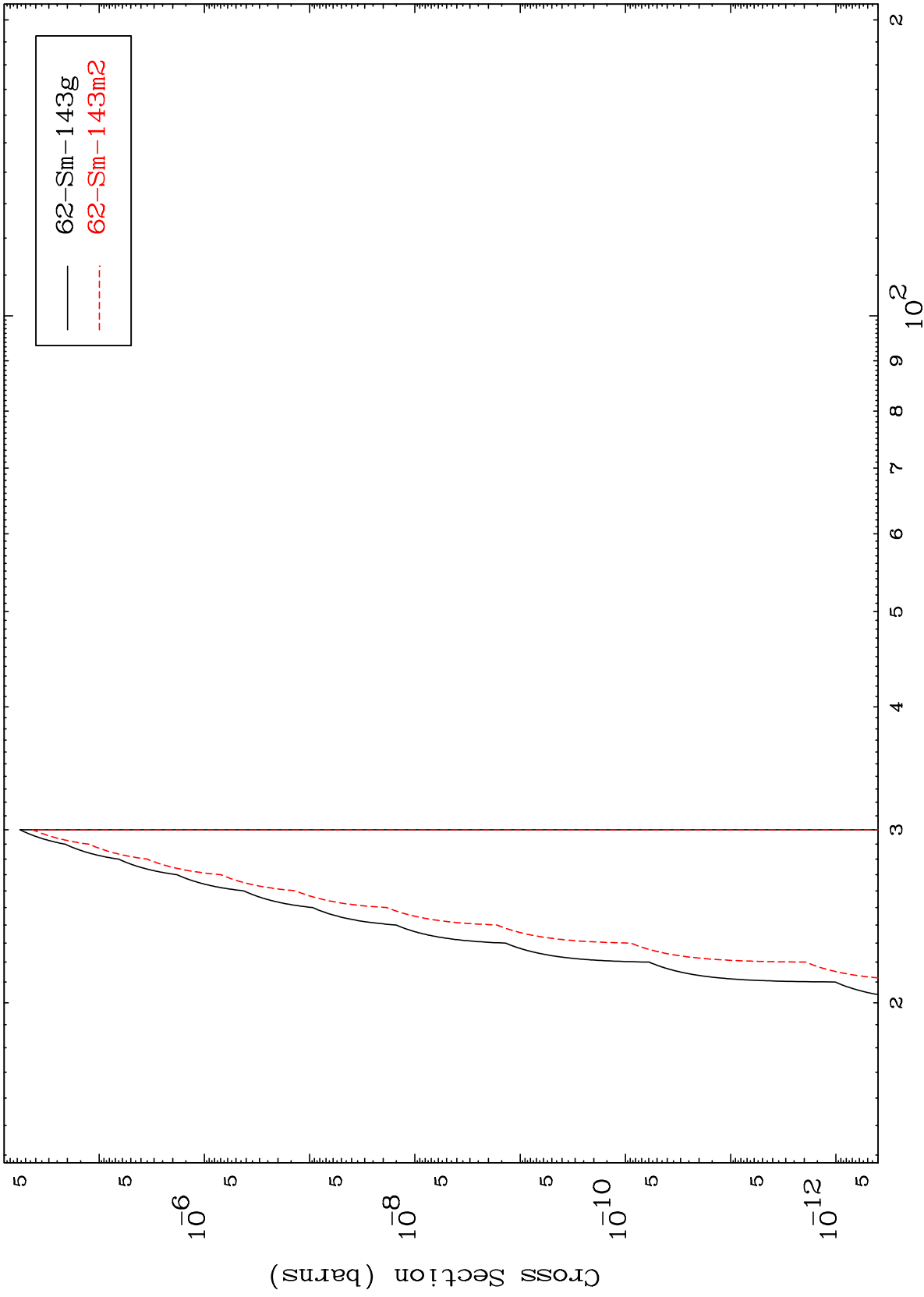
135 50 100 150 200 64-Gd-149

MAT 6416

(n,3n) α

64-Gd-149

Radionuclide Production Cross Section



136

Incident Energy (MeV)

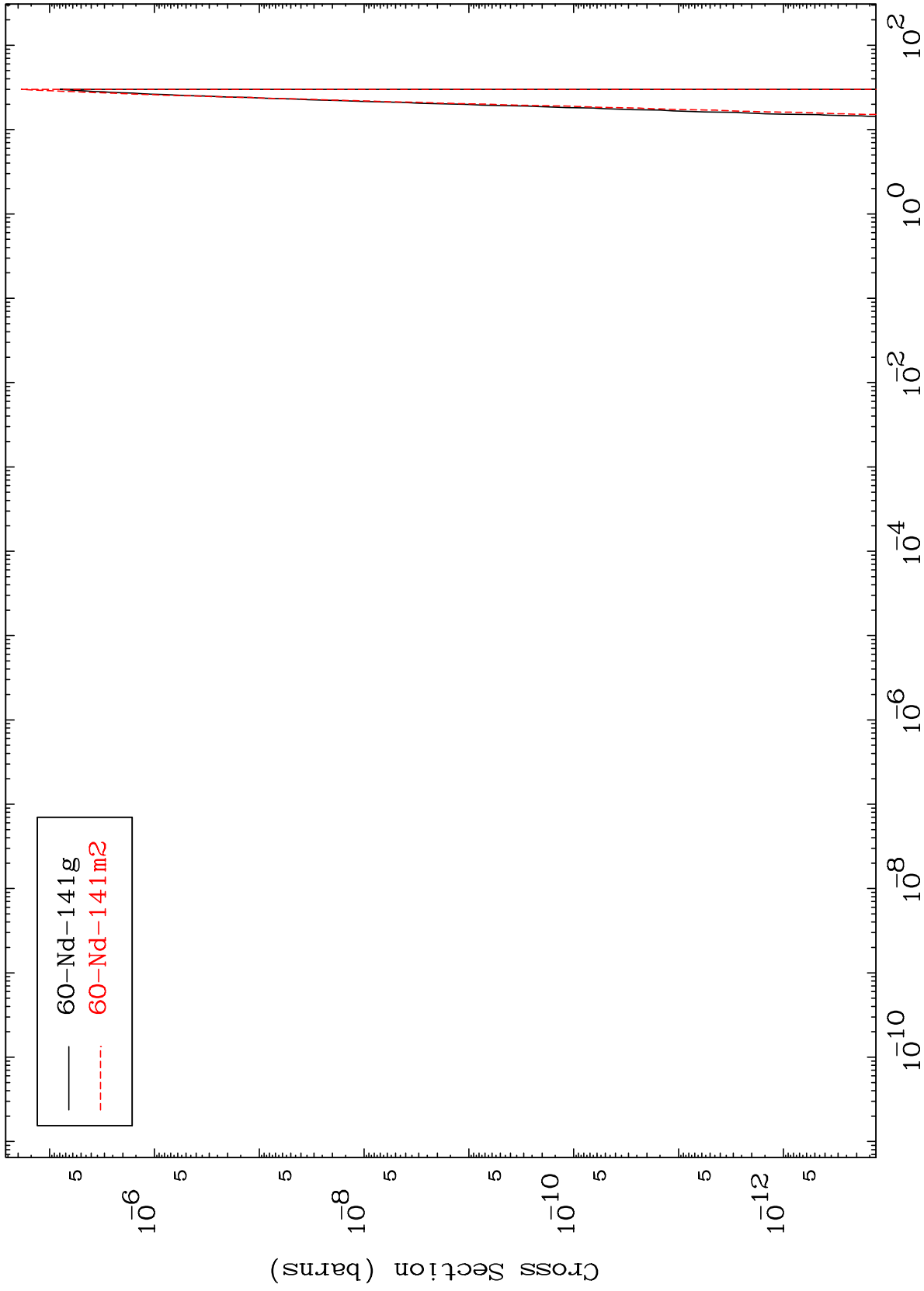
64-Gd-149

MAT 6416

(n,n') 2 α

64-Gd-149

Radionuclide Production Cross Section



137

Incident Energy (MeV)

64-Gd-149