

Program EVALPLOT
(Version 2018-1)

by

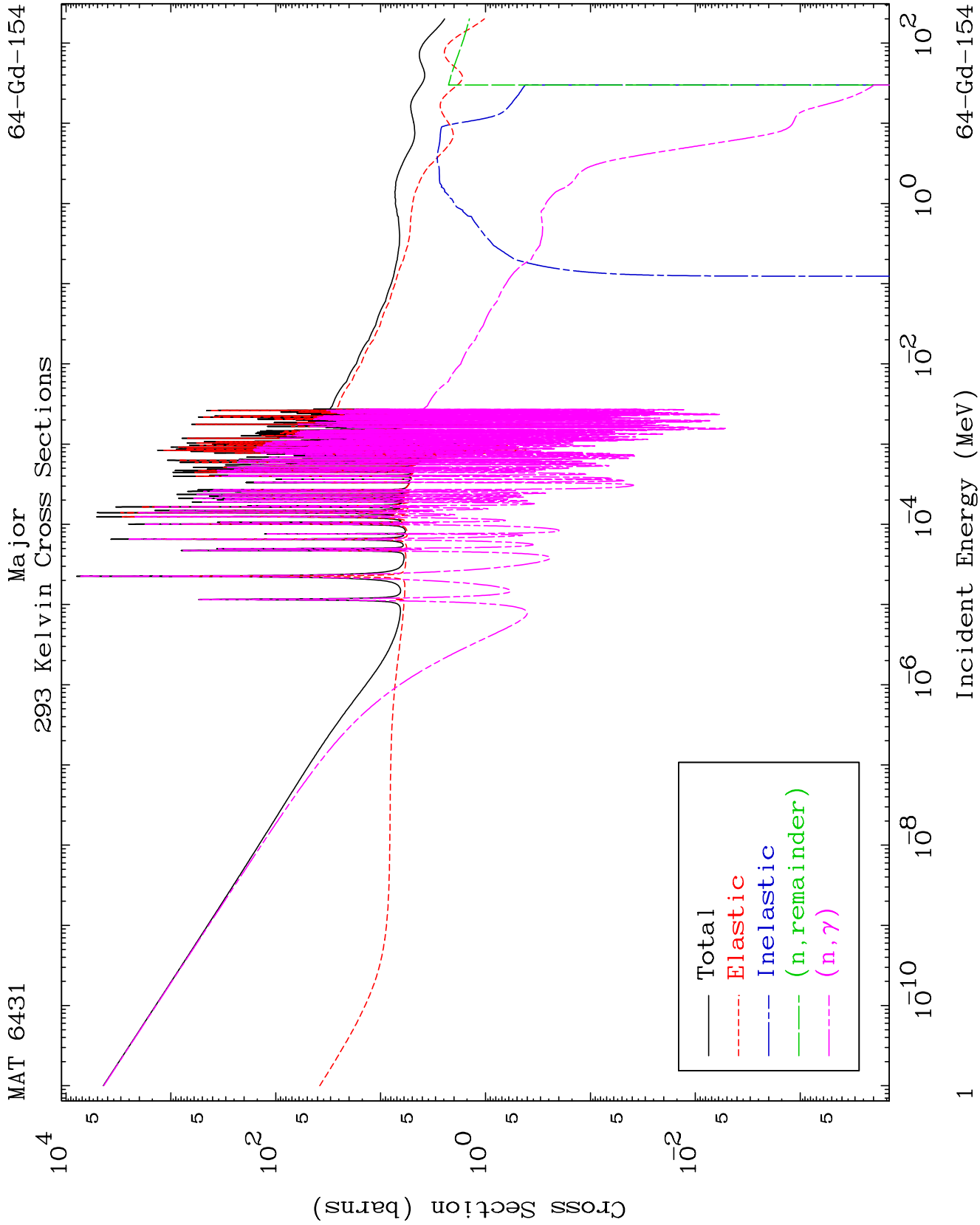
Dermott E. Cullen
(Present Contact Information)

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

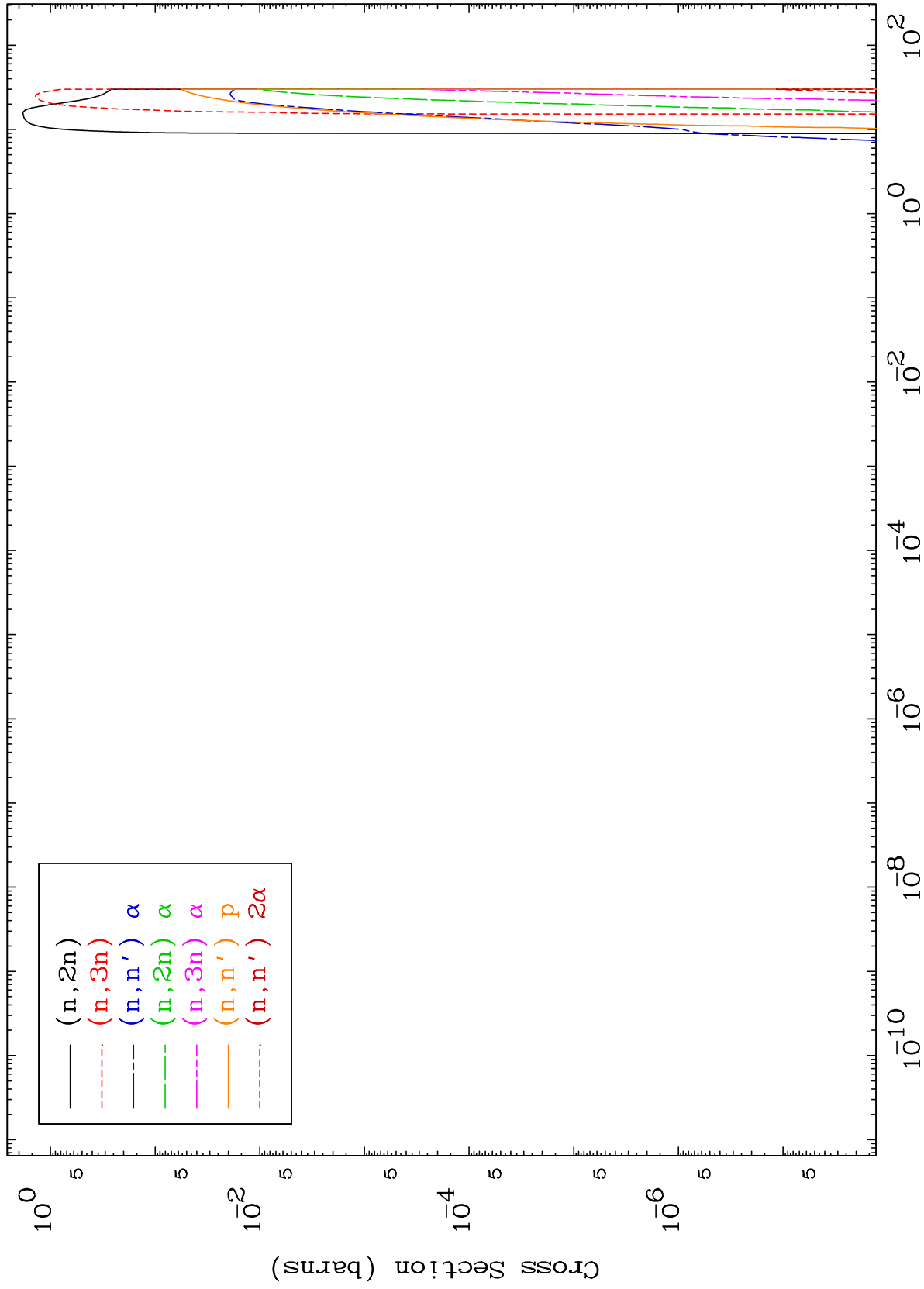
Press Mouse Button to Start



MAT 6431

Neutron Production
293 Kelvin Cross Sections

64-Gd-154



2

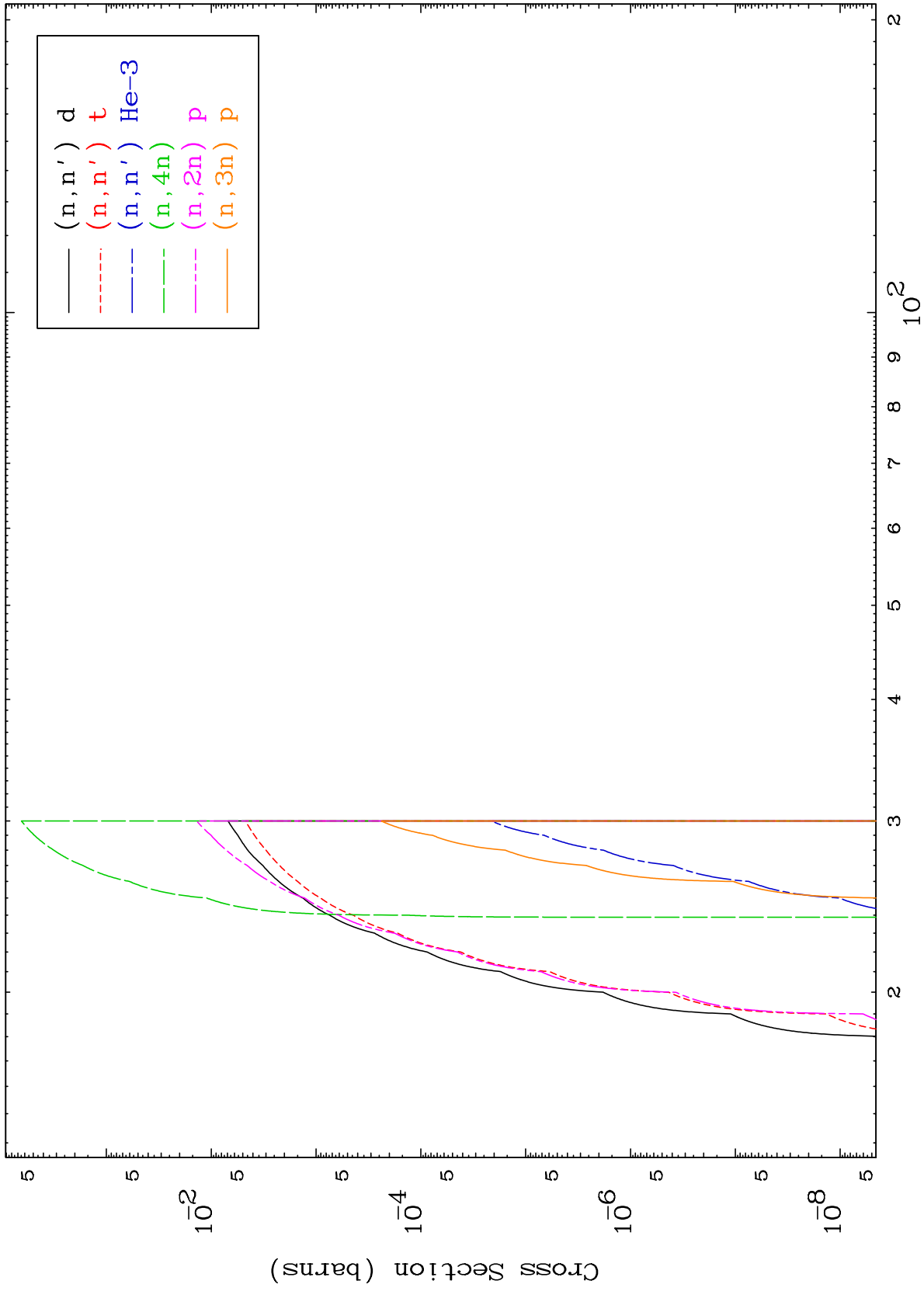
Incident Energy (MeV)

64-Gd-154

MAT 6431

Neutron Production
293 Kelvin Cross Sections

64-Gd-154



3

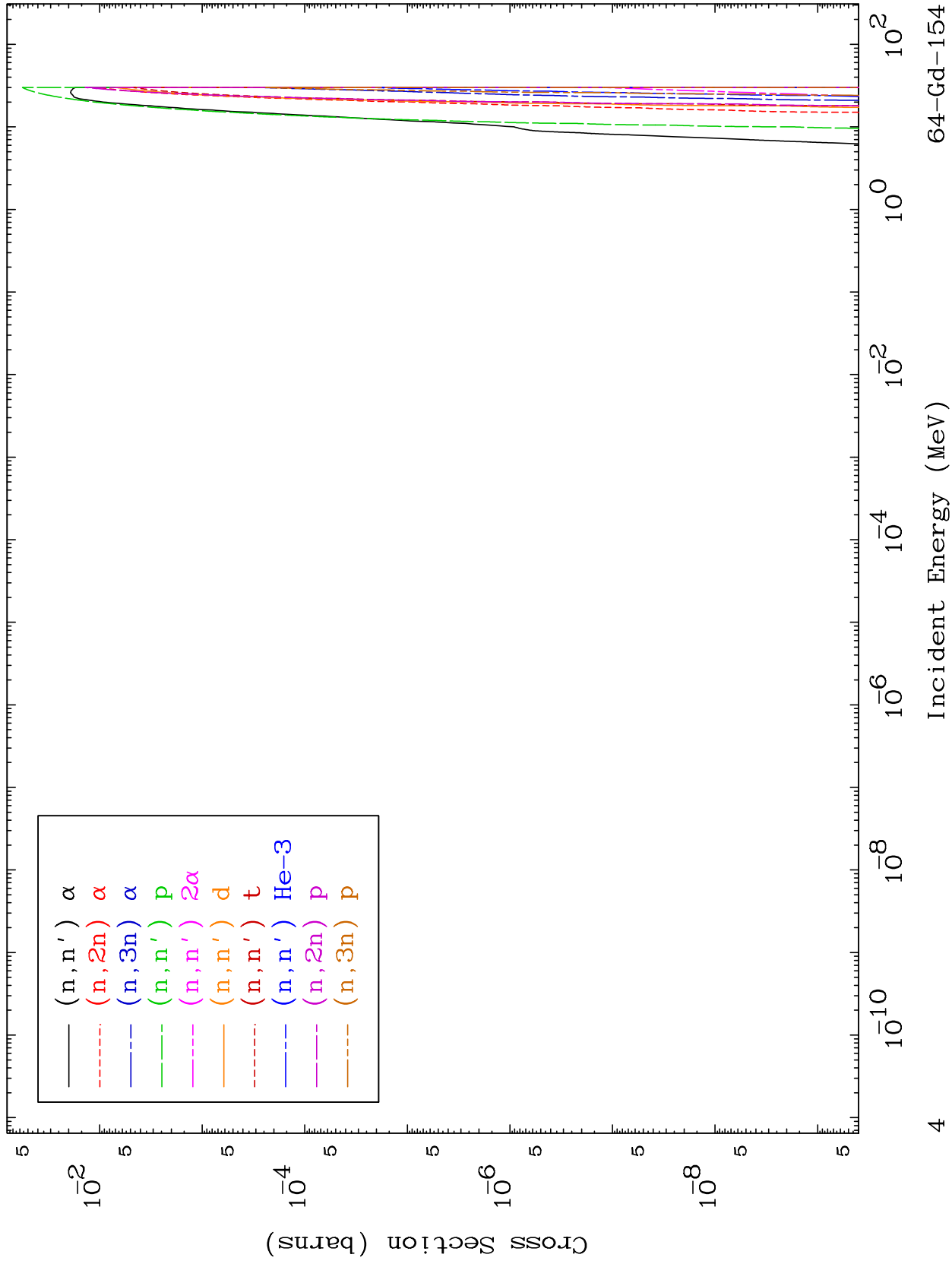
Incident Energy (MeV)

64-Gd-154

MAT 6431

293 Charged Particle
Kelvin Cross Sections

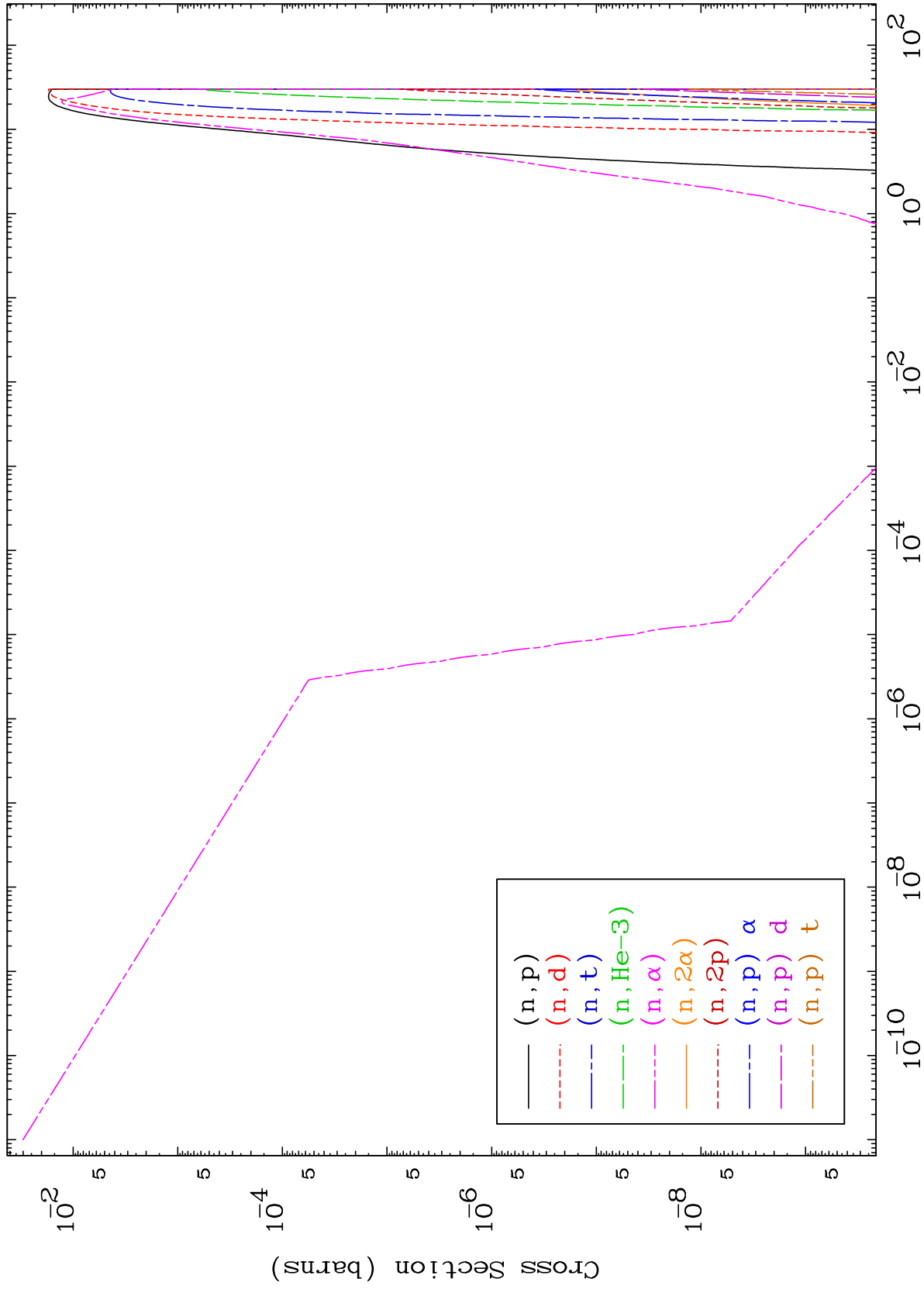
64-Gd-154



MAT 6431

293 Kelvin Cross Sections

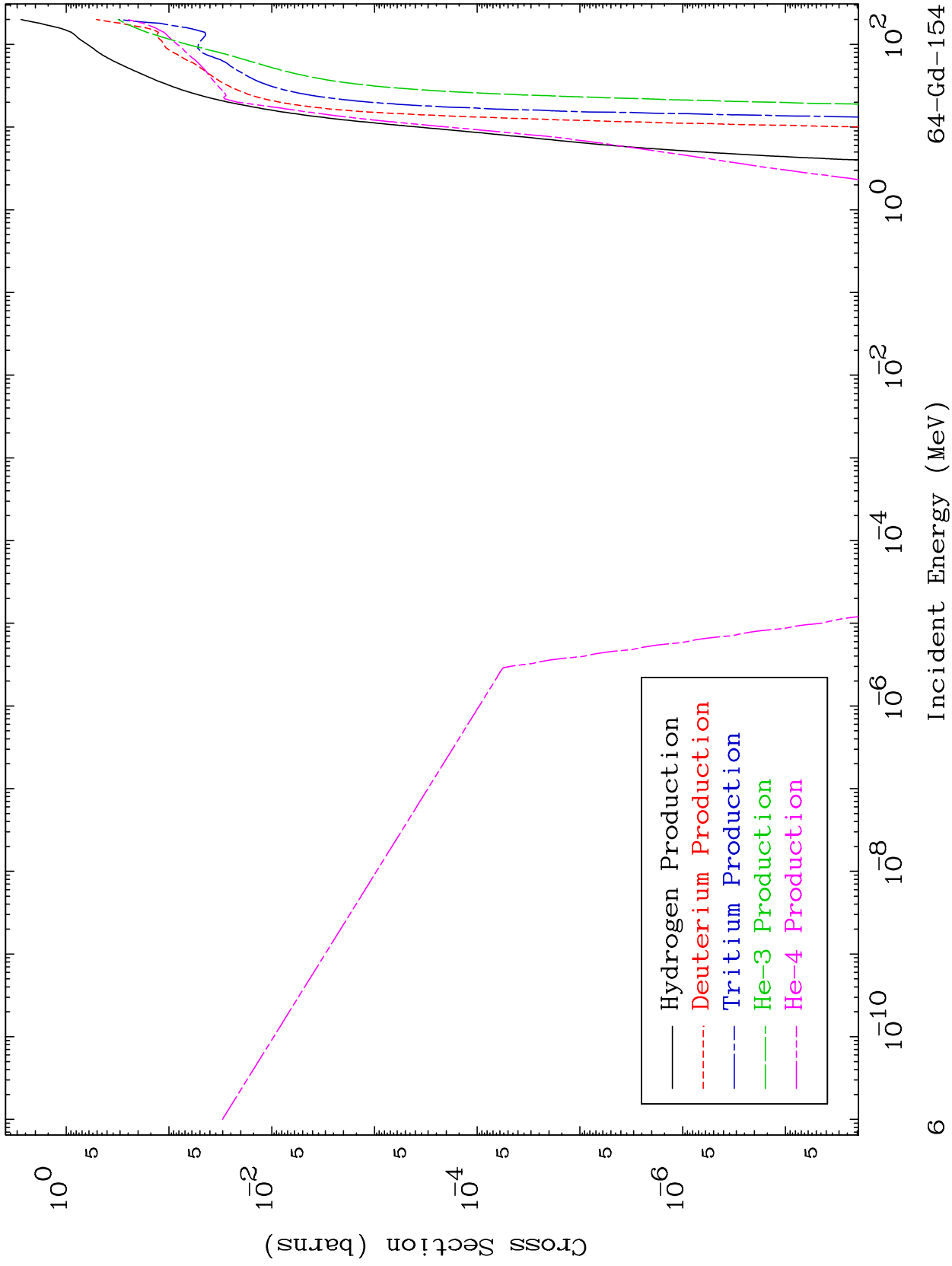
64-Gd-154



MAT 6431

Particle Production
293 Kelvin Cross Sections

64-Gd-154

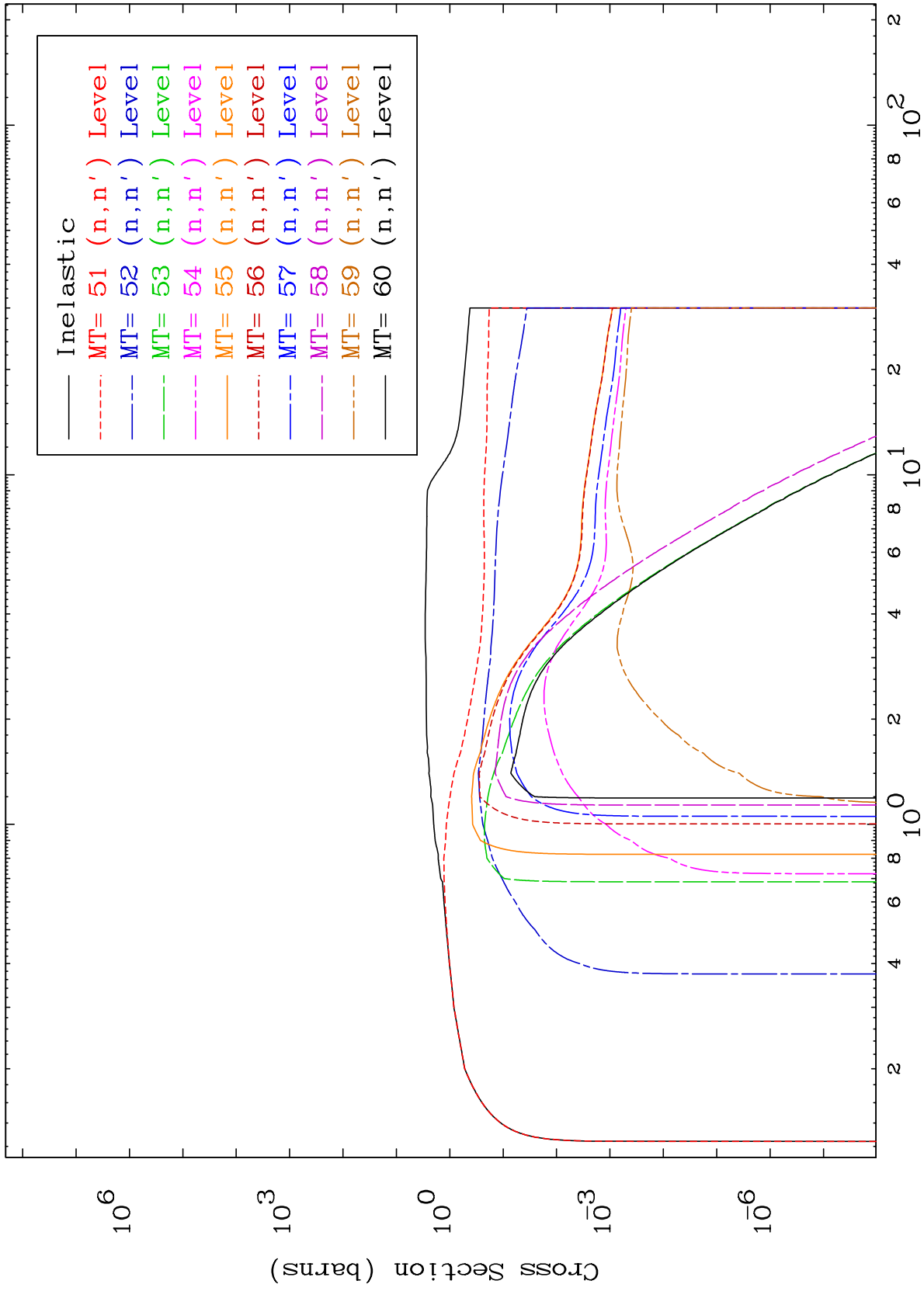


MAT 6431

(n,n') Level

64-Gd-154

293 Kelvin Cross Sections

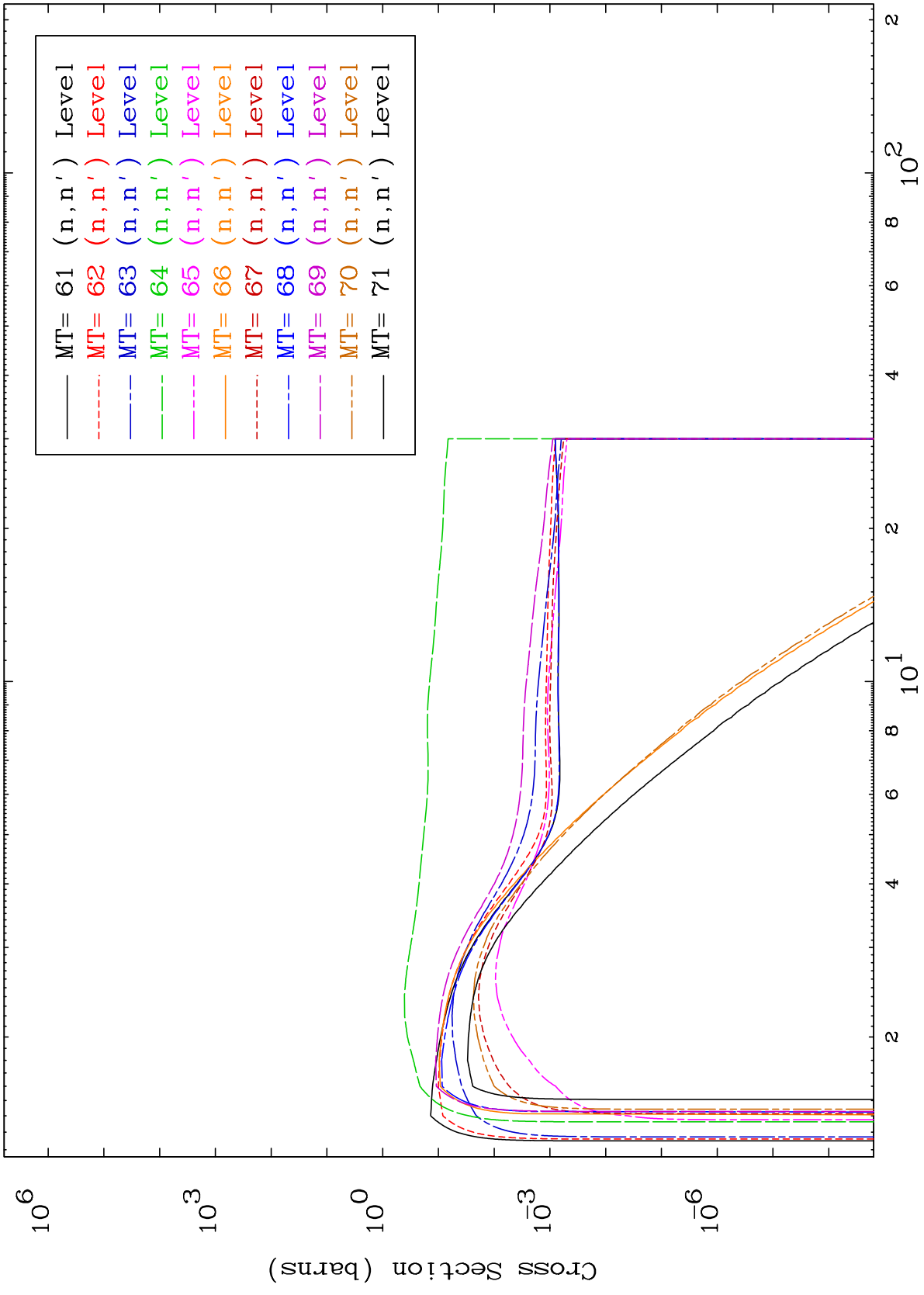


MAT 6431

(n,n') Level

64-Gd-154

293 Kelvin Cross Sections



8

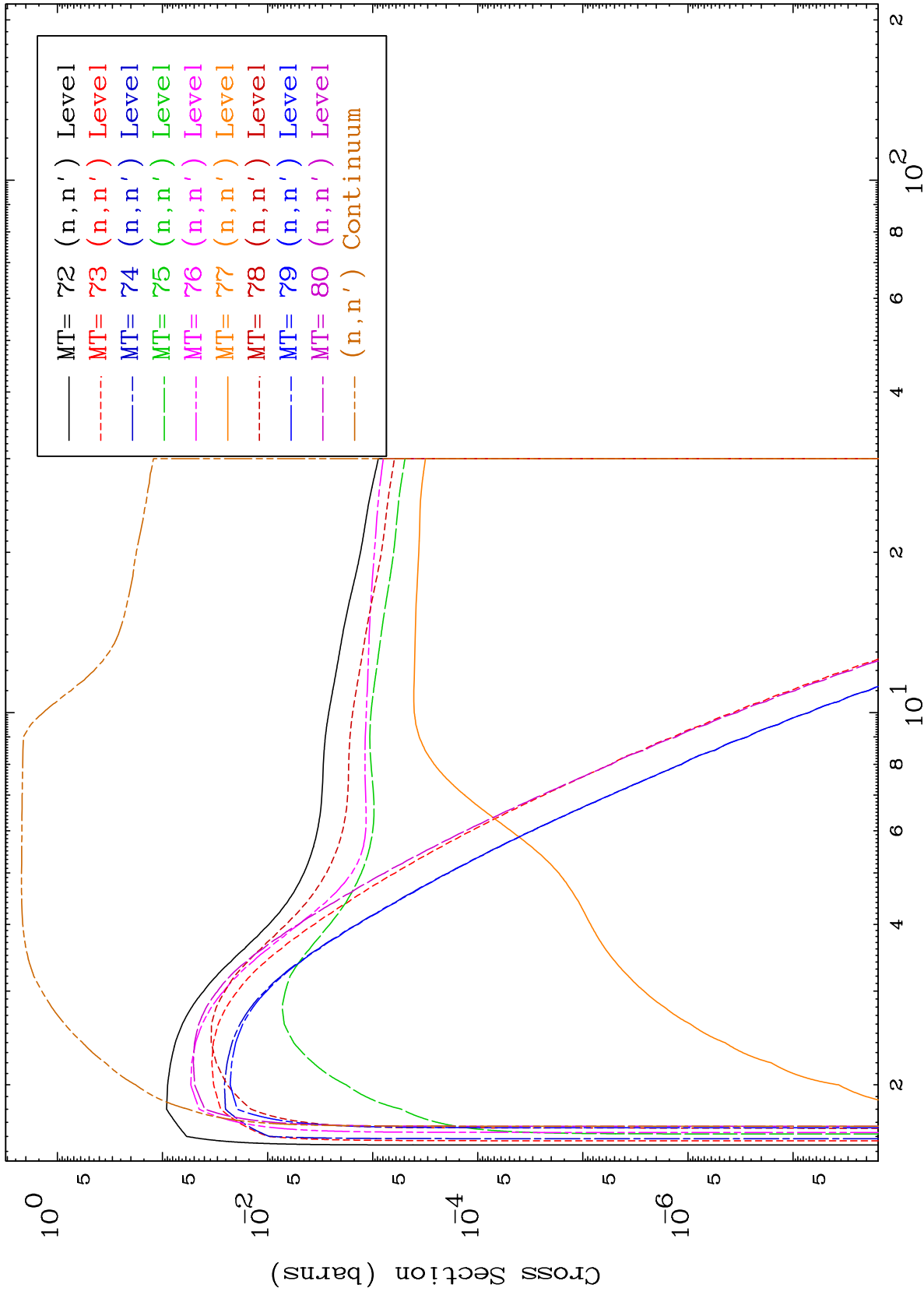
Incident Energy (MeV)

64-Gd-154

MAT 6431

(n,n') Level
293 Kelvin Cross Sections

64-Gd-154



9

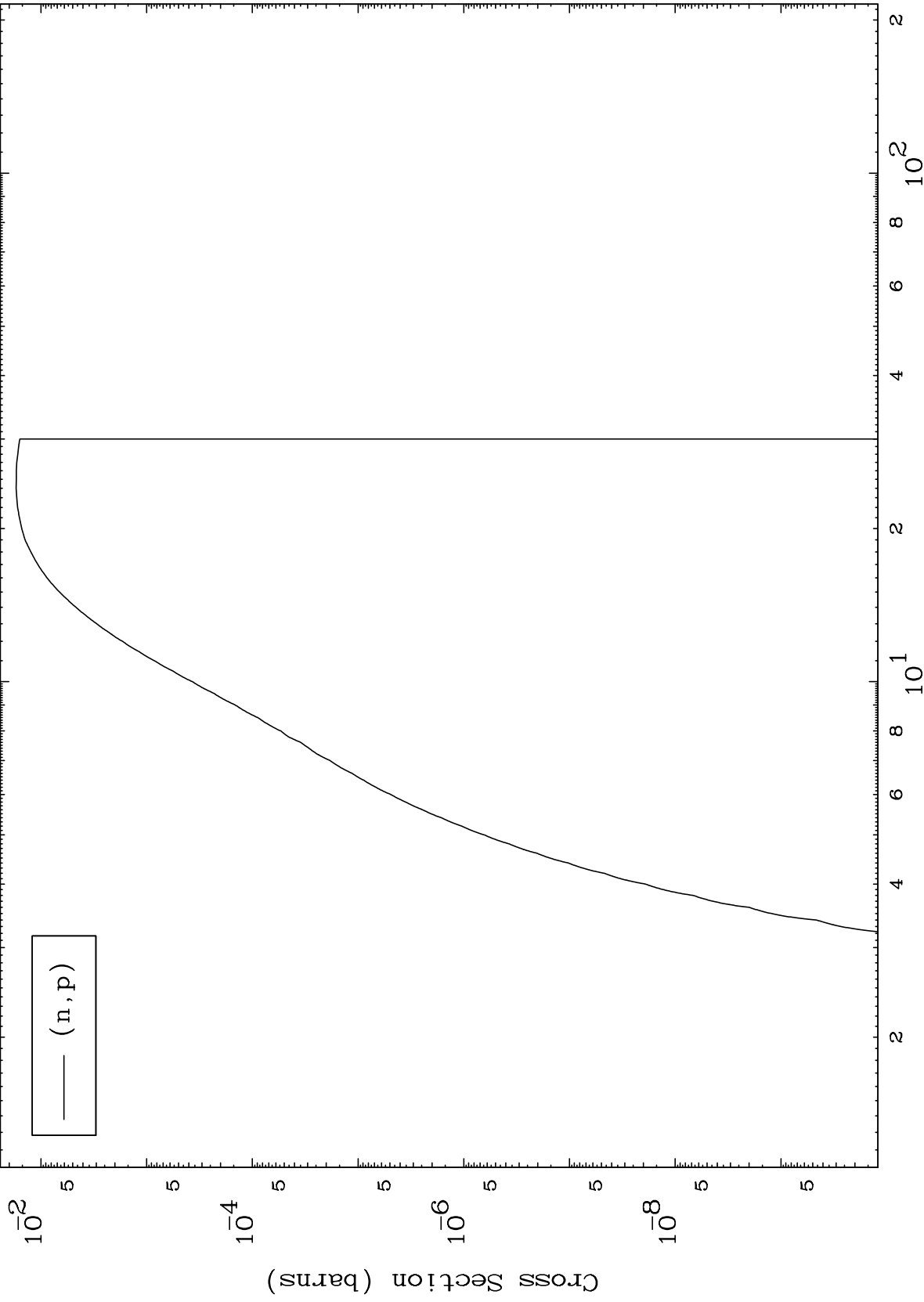
Incident Energy (MeV)

64-Gd-154

MAT 6431

(n,p) Levels
293 Kelvin Cross Sections

64-Gd-154



10

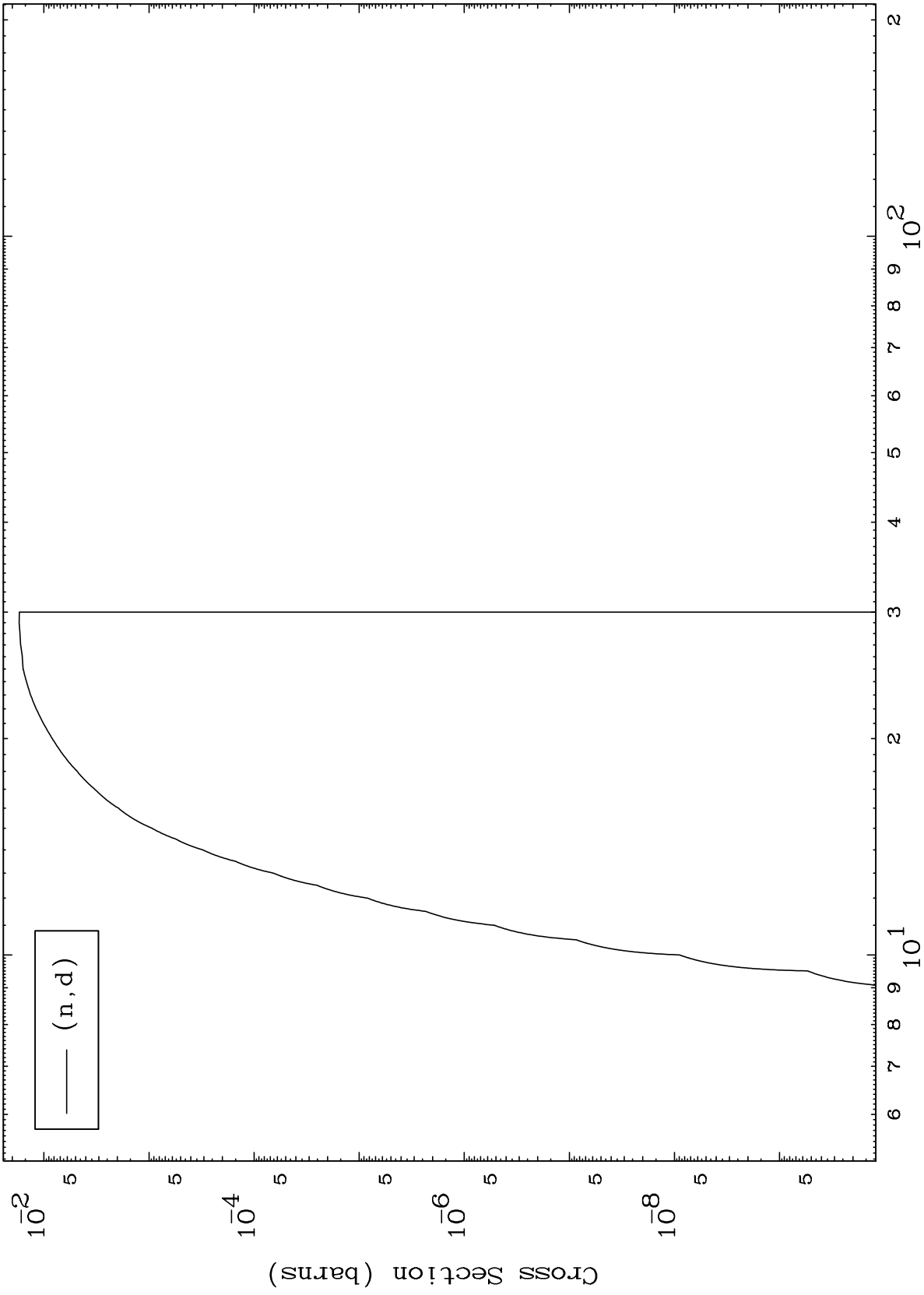
Incident Energy (MeV)

64-Gd-154

MAT 6431

(n,d) Levels
293 Kelvin Cross Sections

64-Gd-154



11

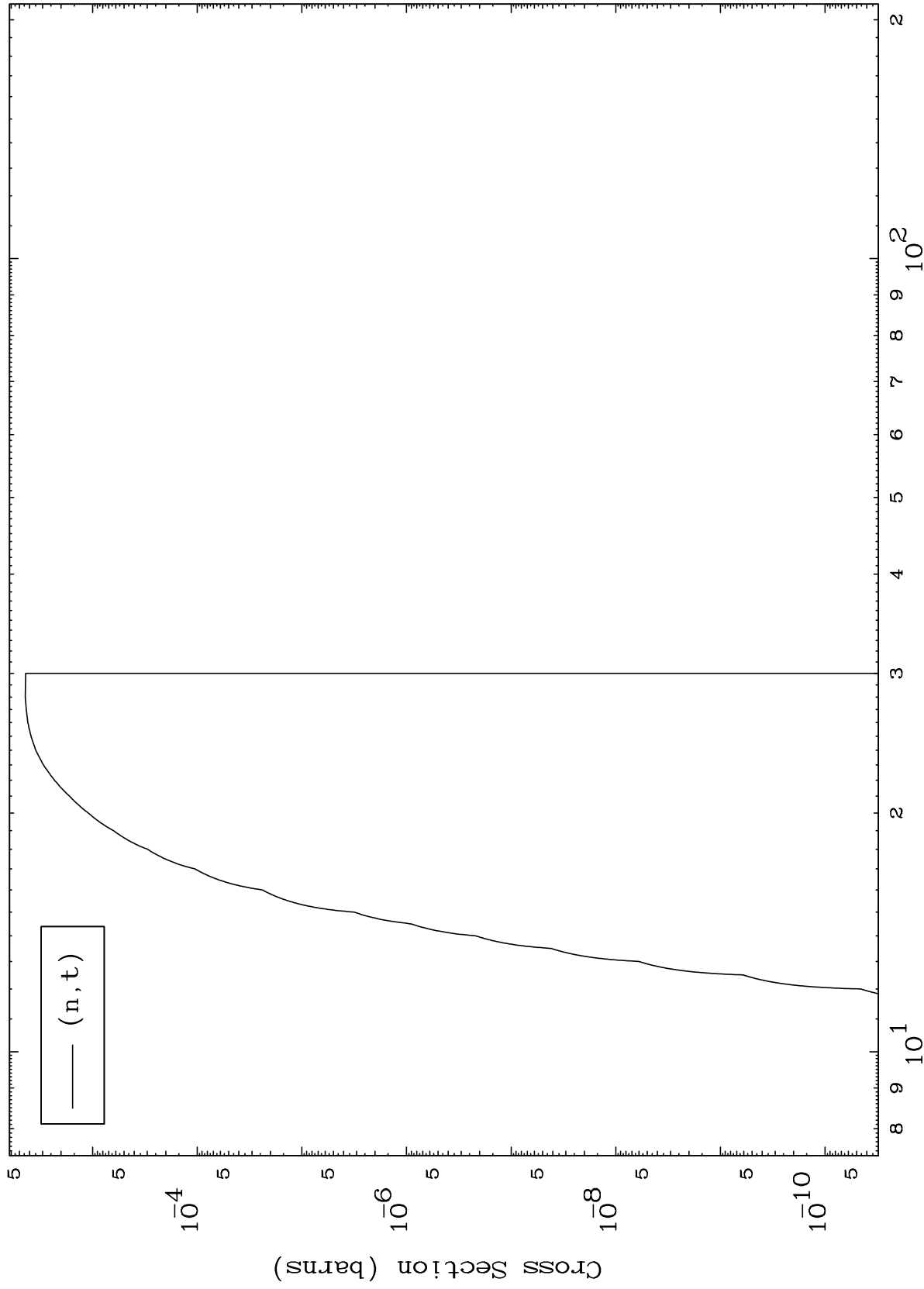
Incident Energy (MeV)

64-Gd-154

MAT 6431

(n,t) Levels
293 Kelvin Cross Sections

64-Gd-154



12

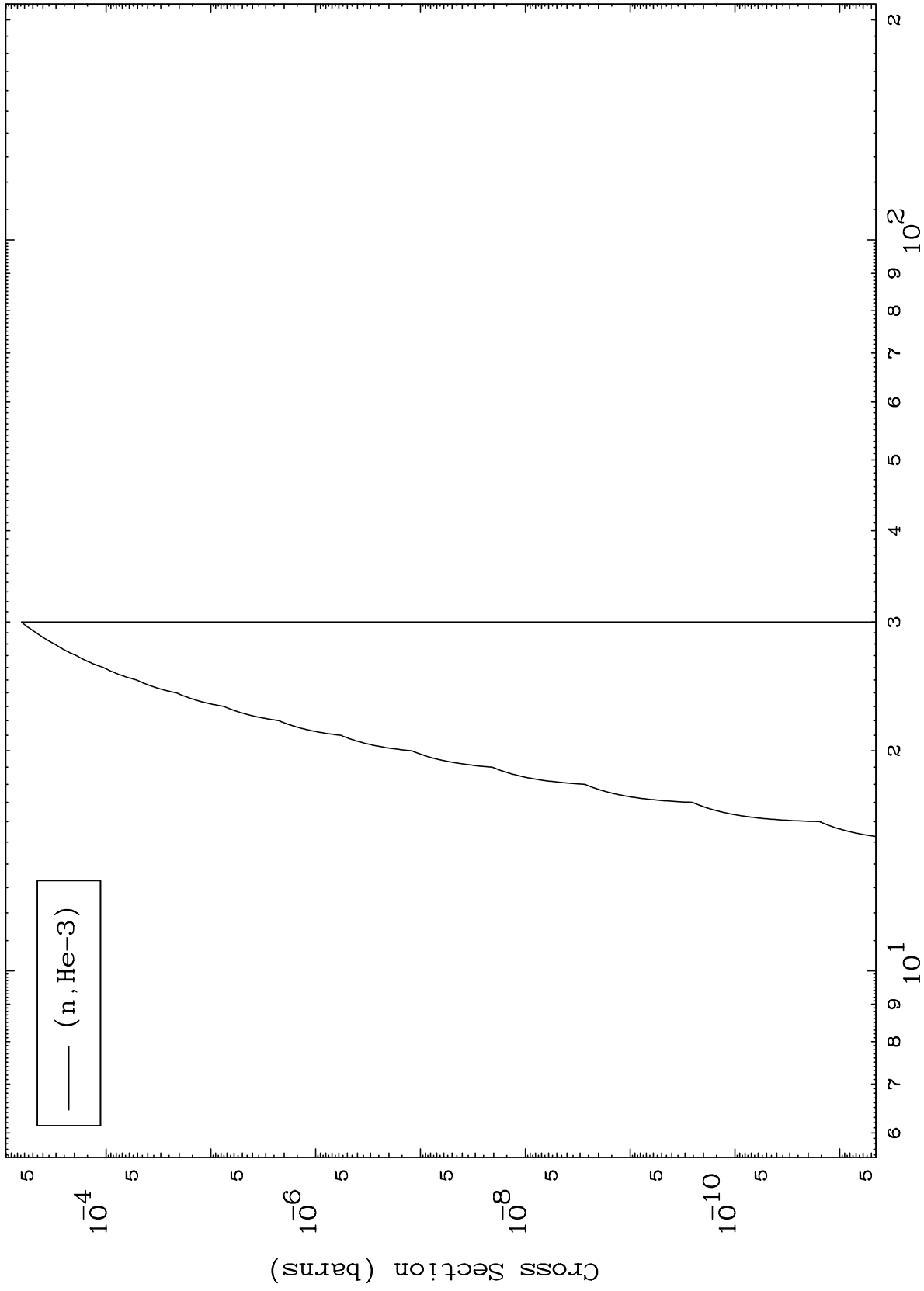
Incident Energy (MeV)

64-Gd-154

MAT 6431

(n,He3) Levels
293 Kelvin Cross Sections

64-Gd-154



13

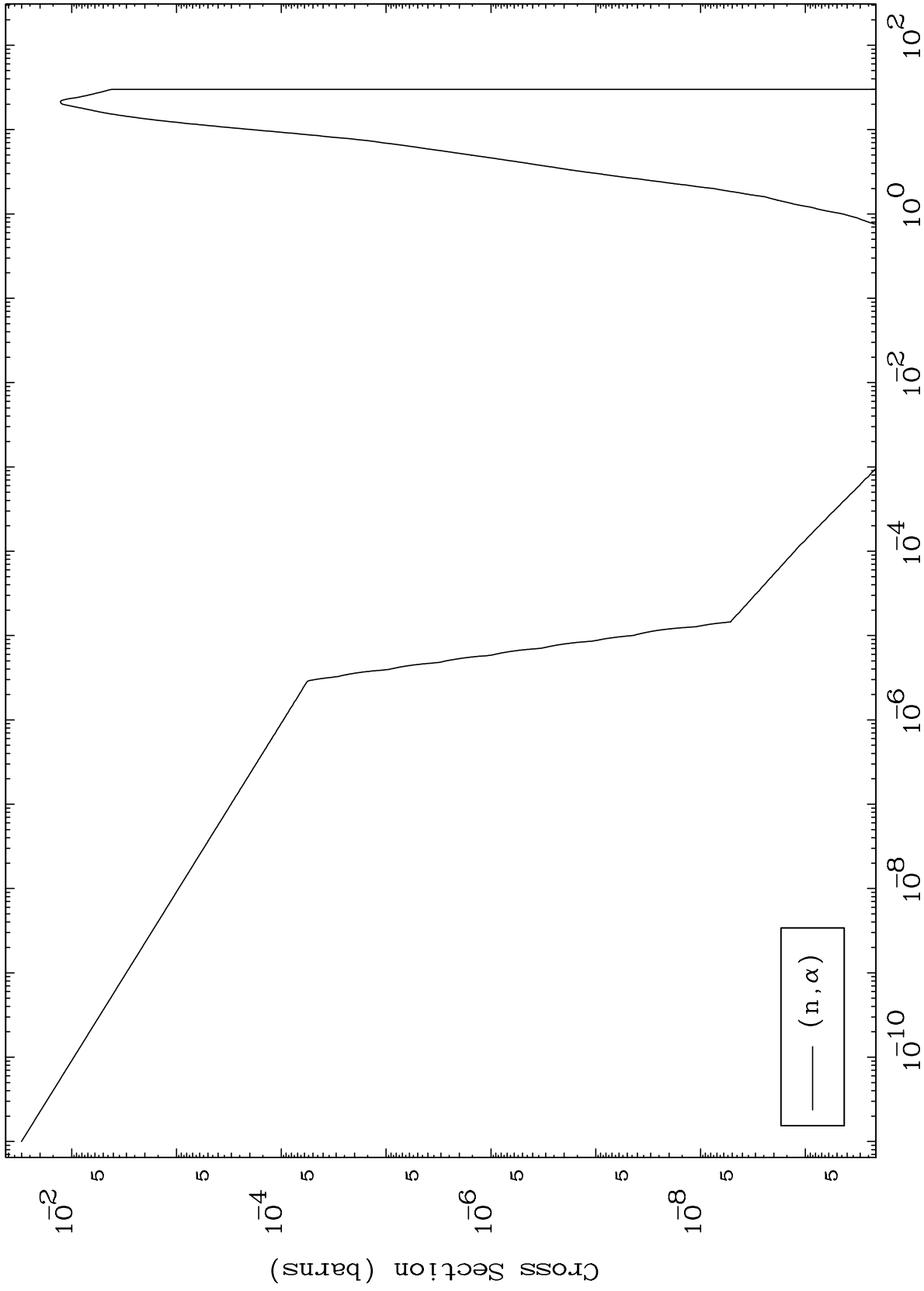
Incident Energy (MeV)

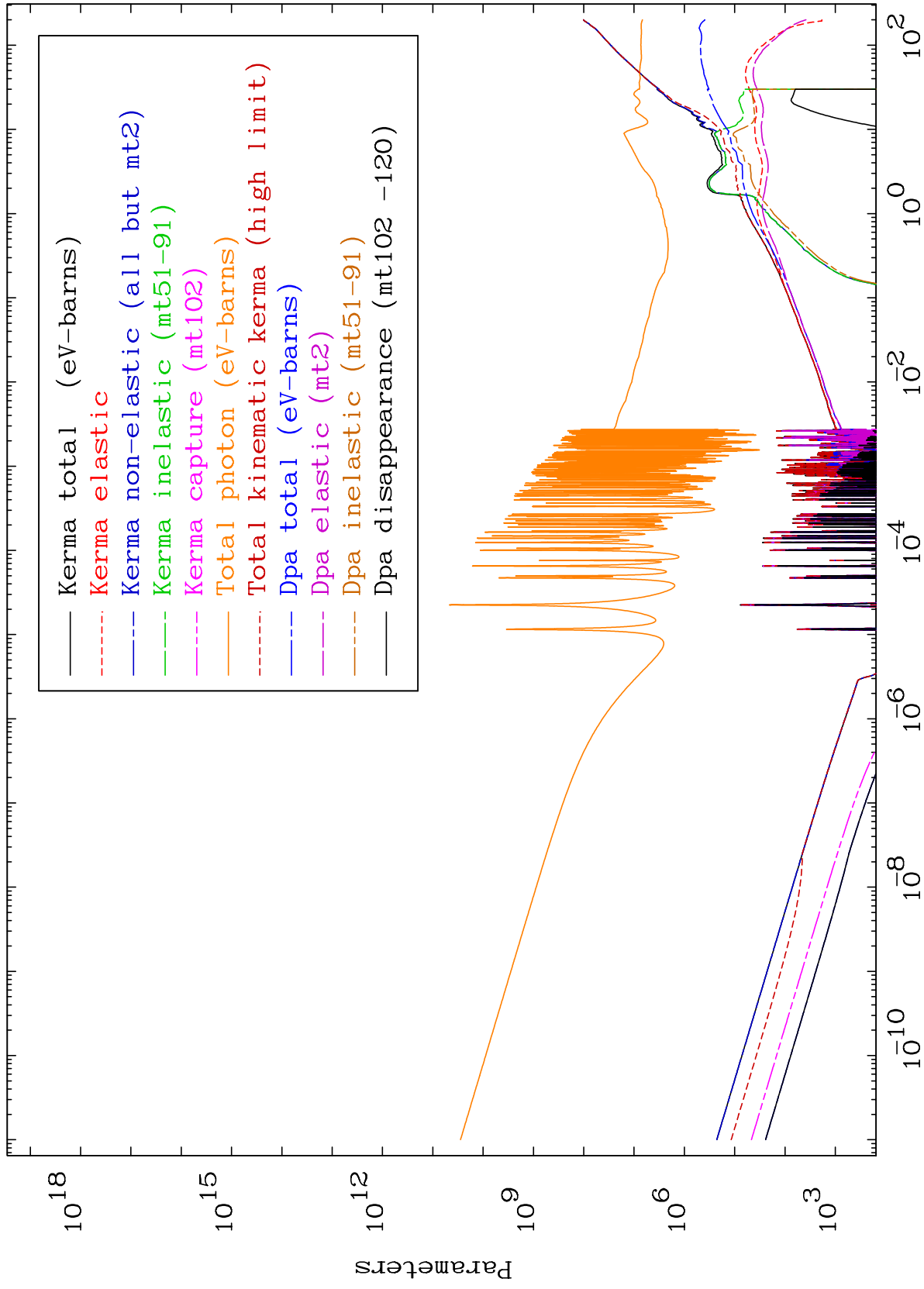
64-Gd-154

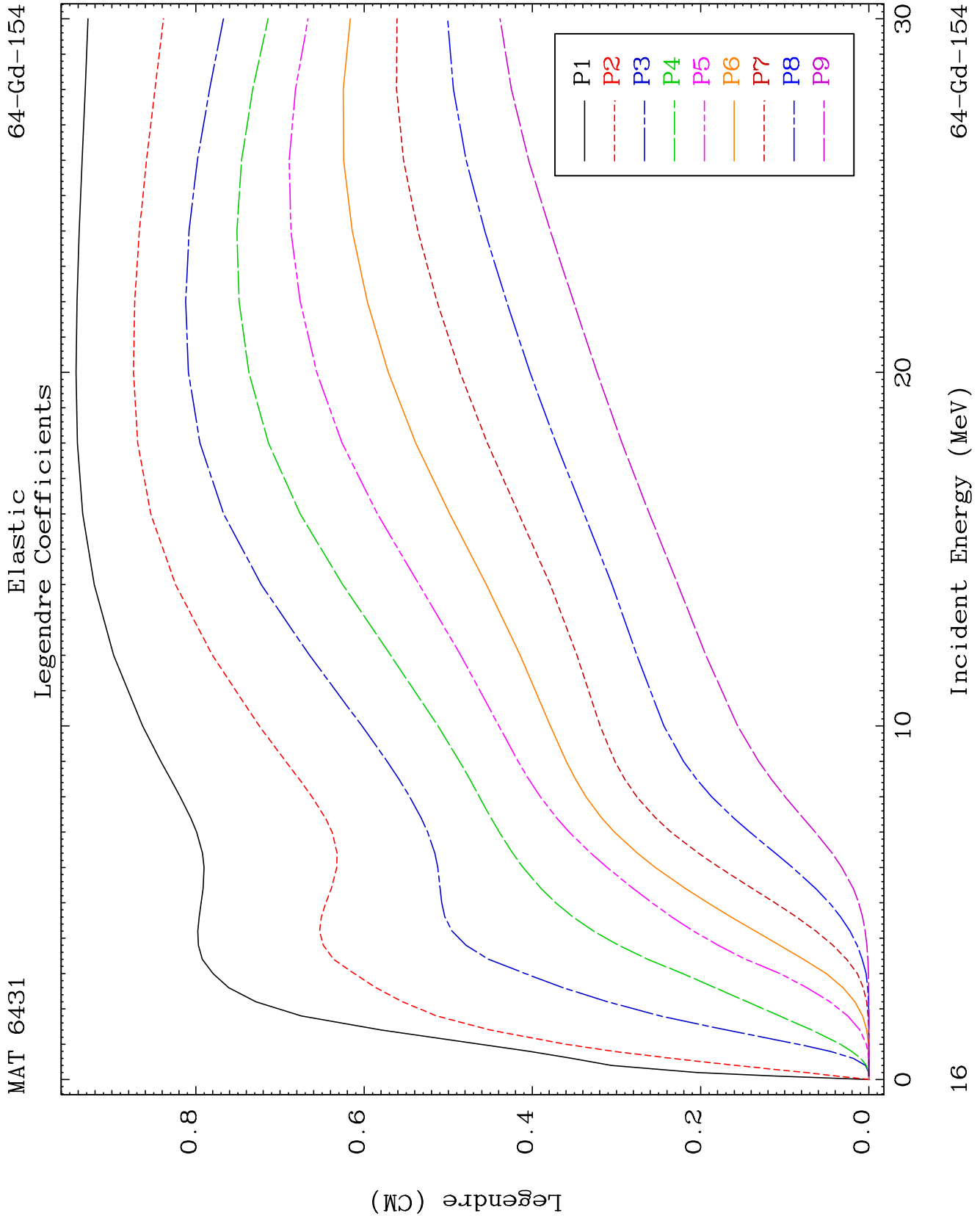
MAT 6431

(n,α) Levels
293 Kelvin Cross Sections

64-Gd-154



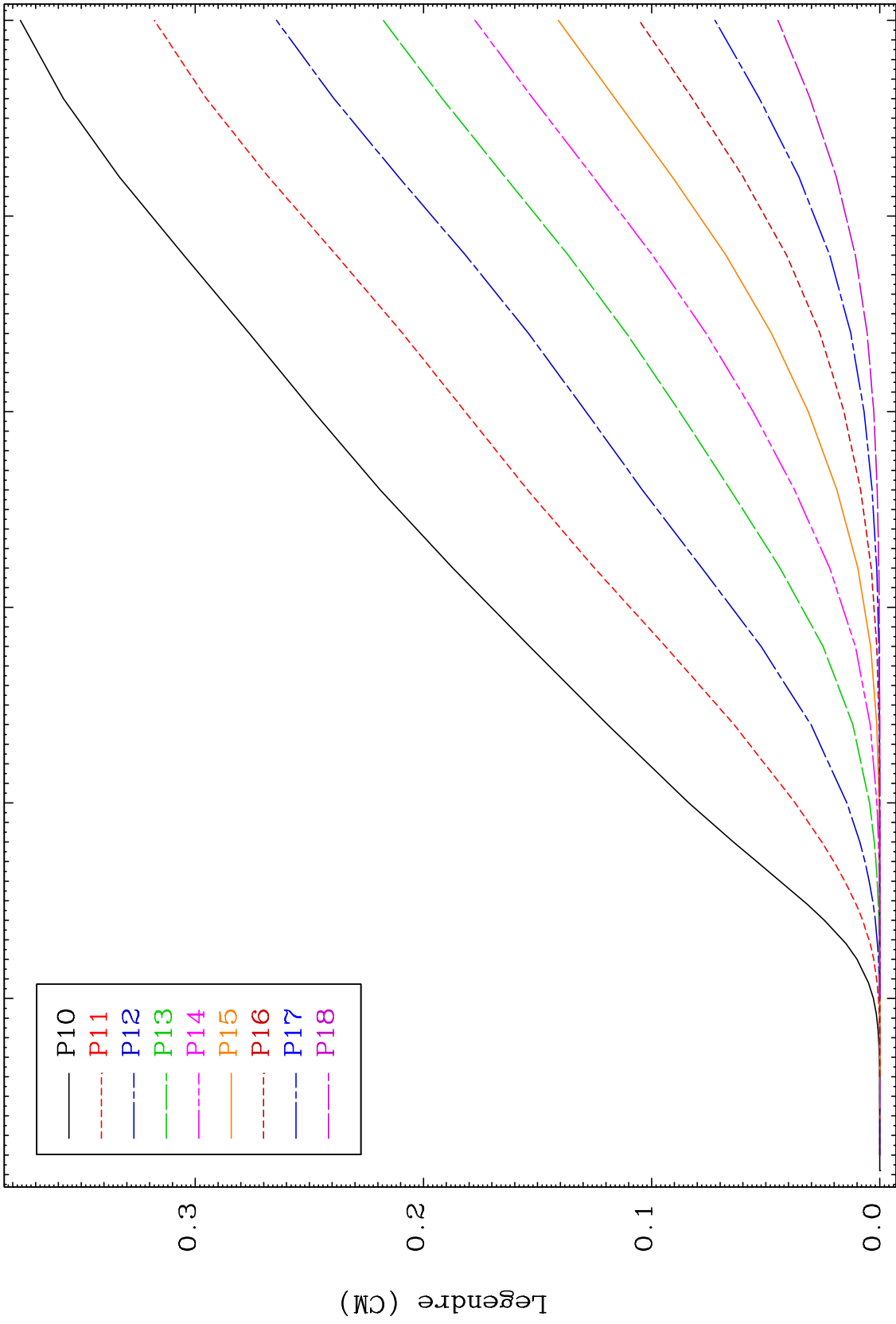




MAT 6431

Elastic Legendre Coefficients

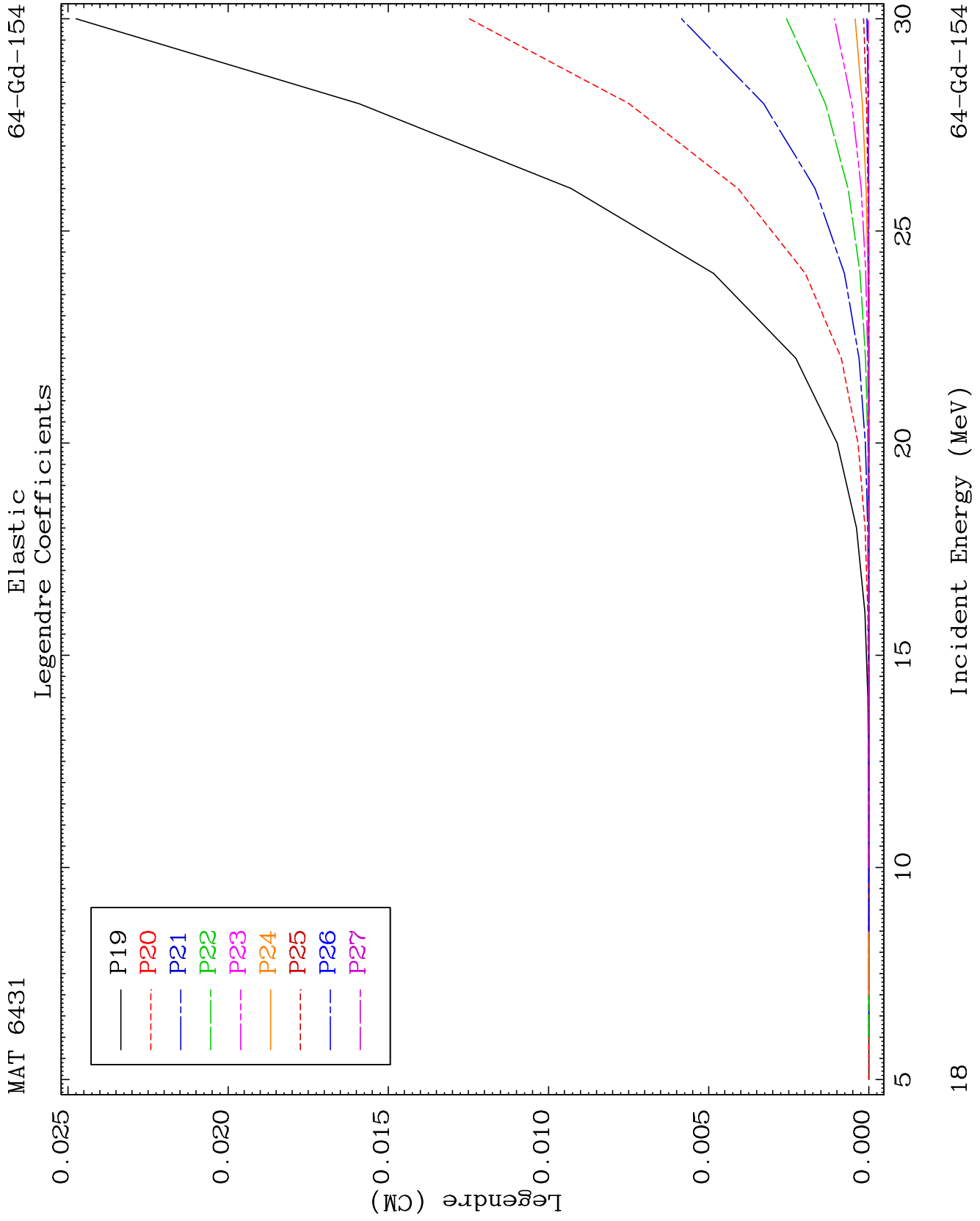
64-Gd-154



17

Incident Energy (MeV)

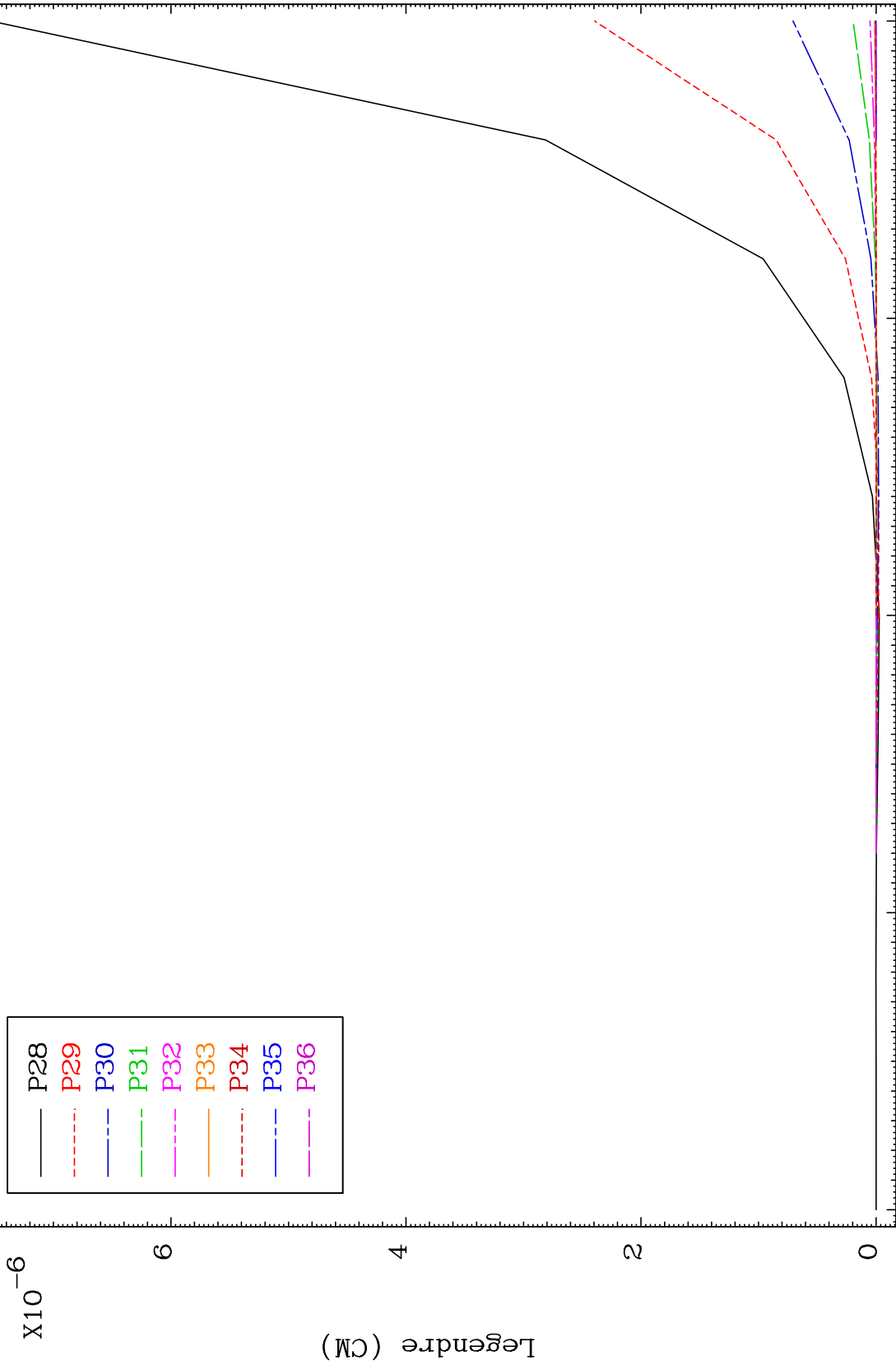
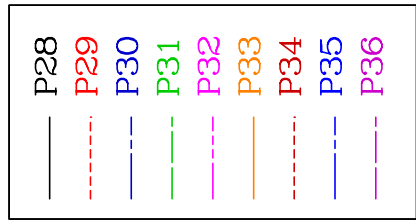
64-Gd-154



MAT 6431

Elastic Legendre Coefficients

64-Gd-154



10

15

20

25

30

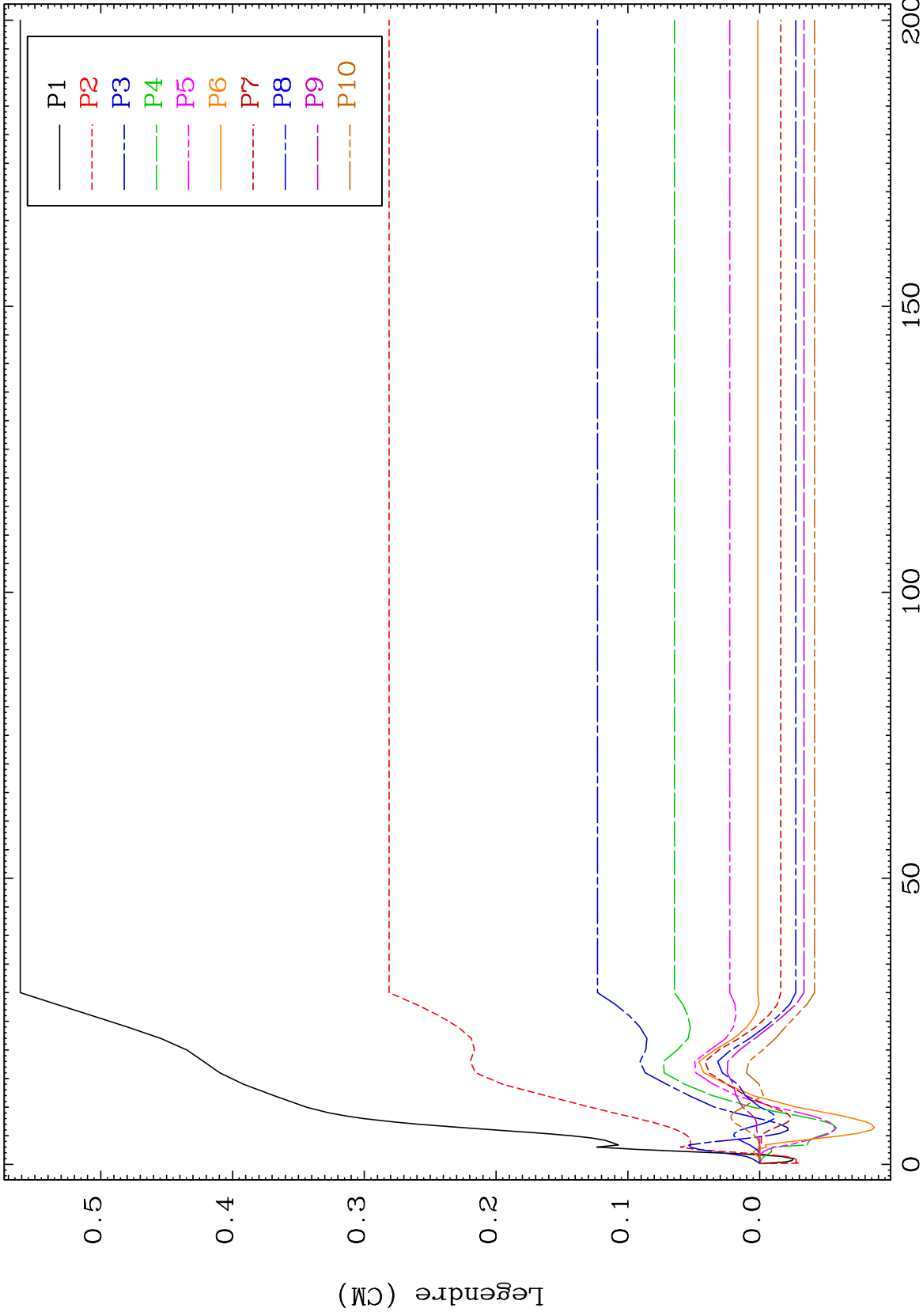
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154



20

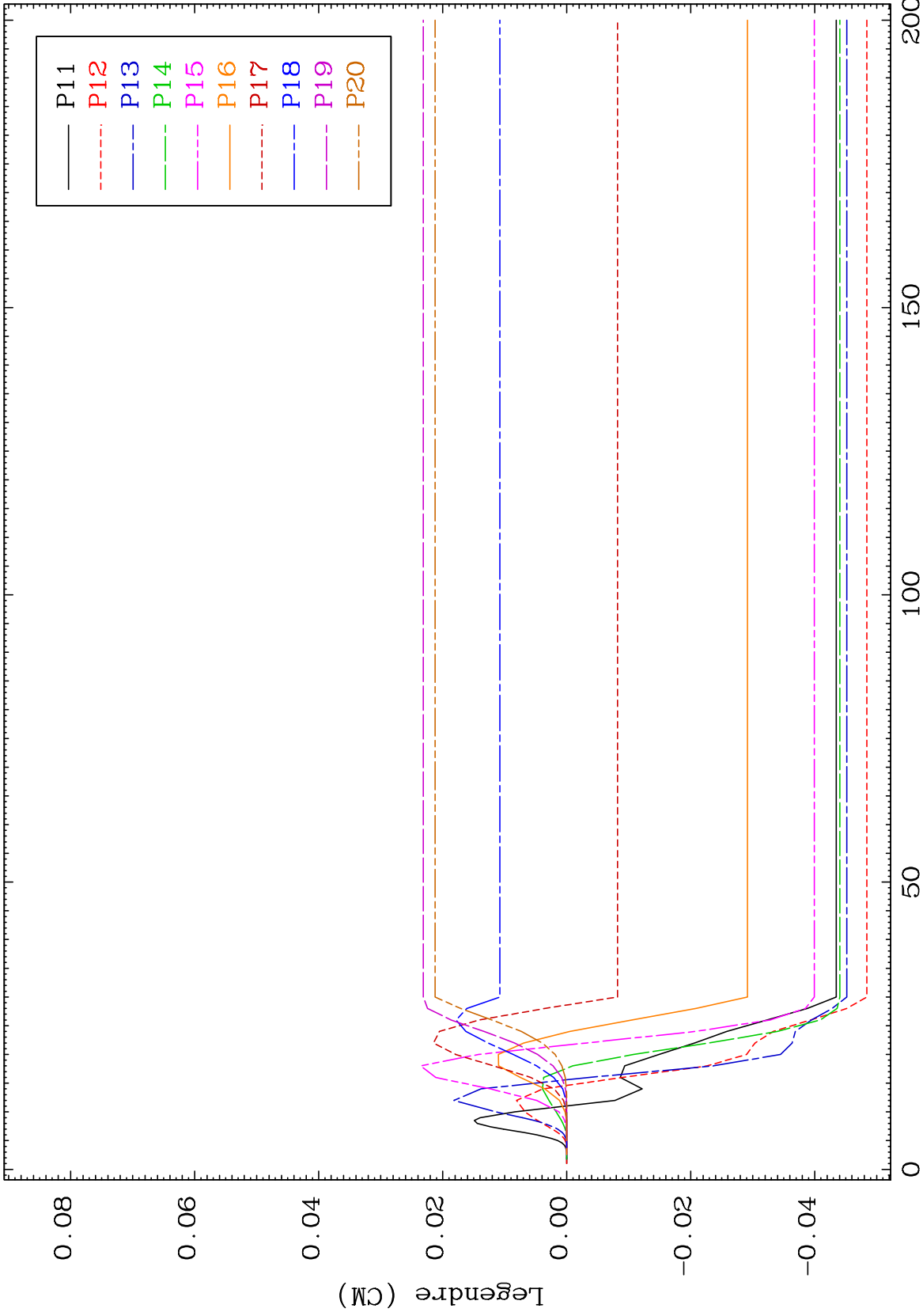
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154



21

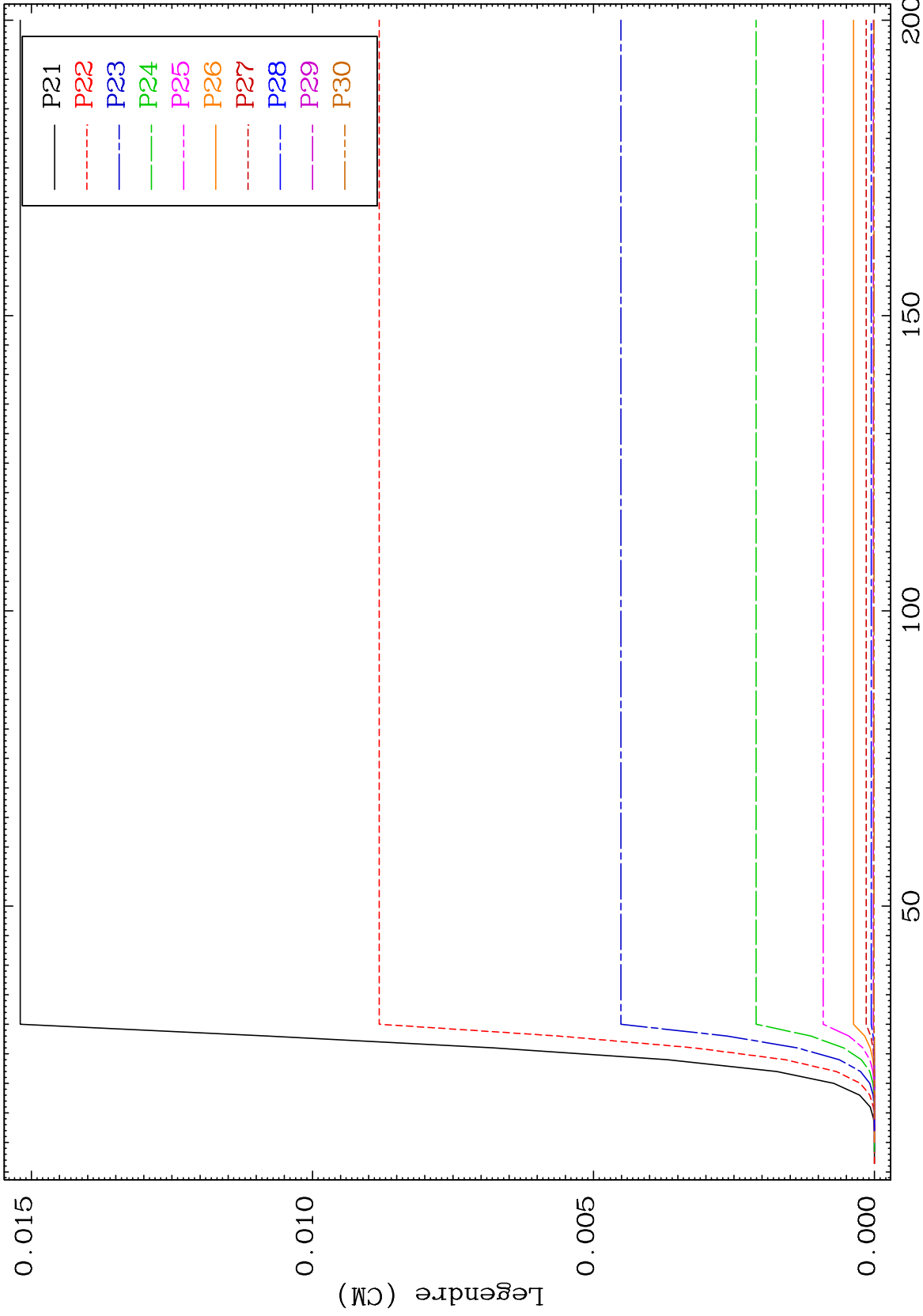
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154



22

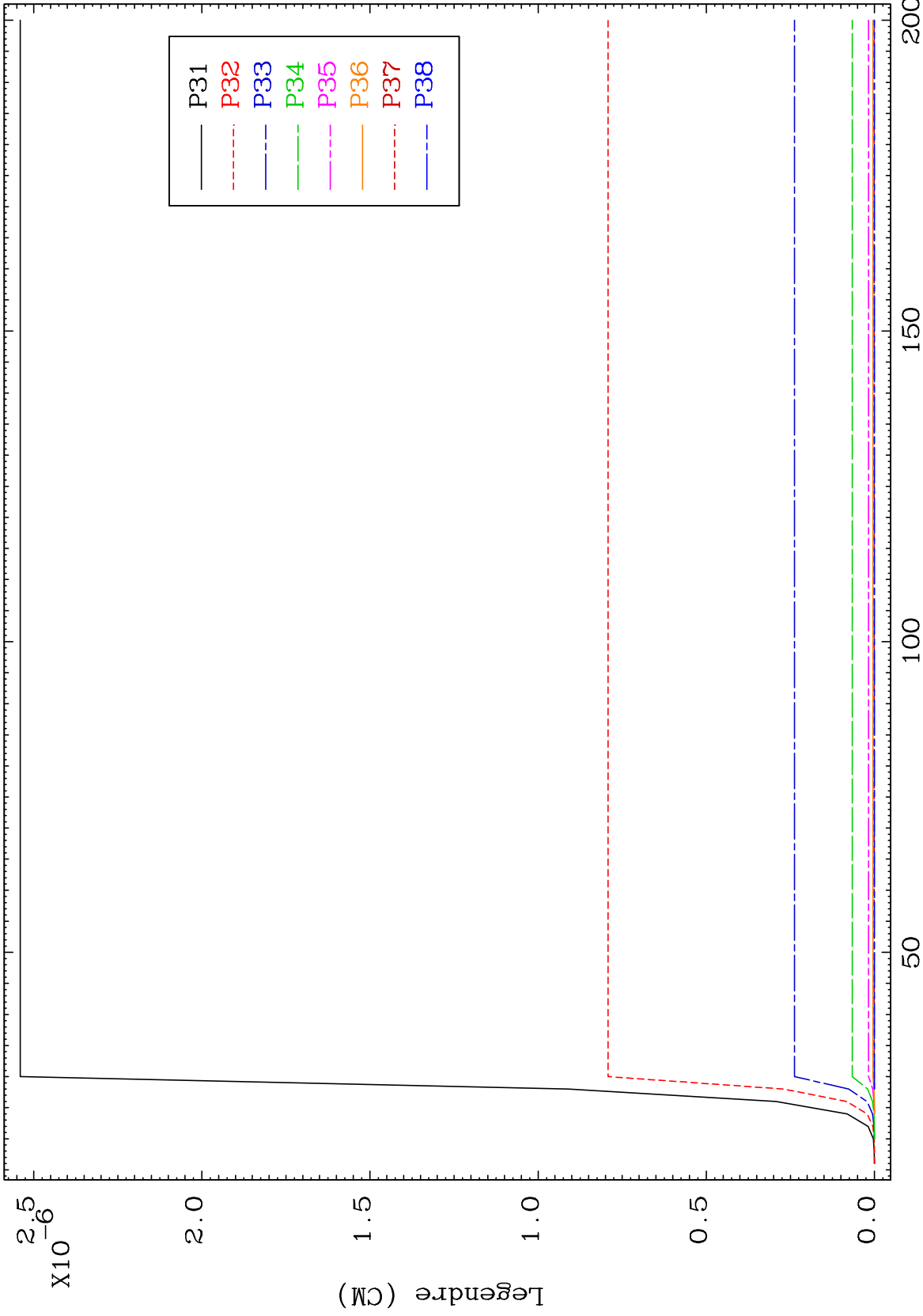
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154



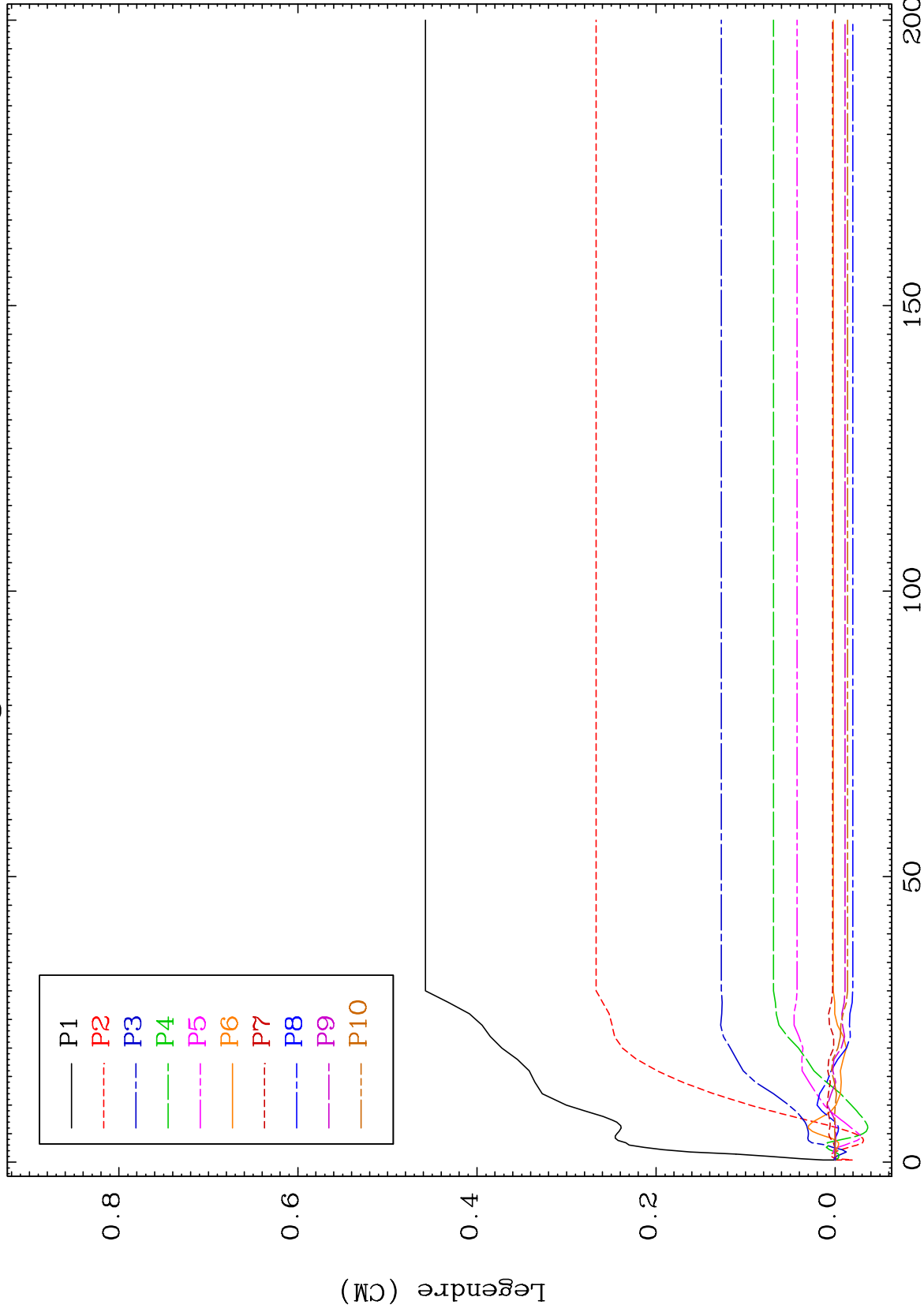
23

64-Gd-154

MAT 6431

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

64-Gd-154



24

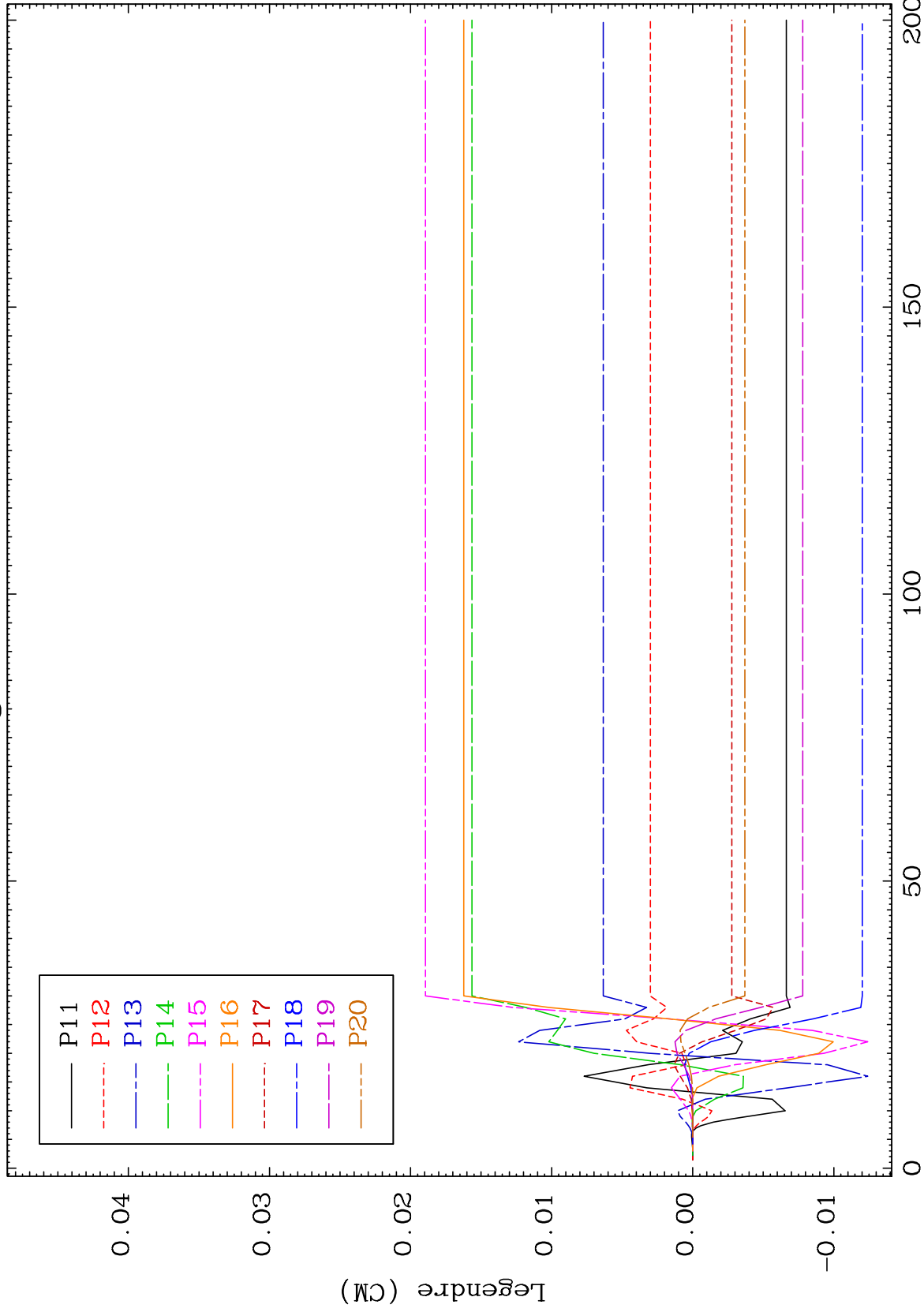
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154



25

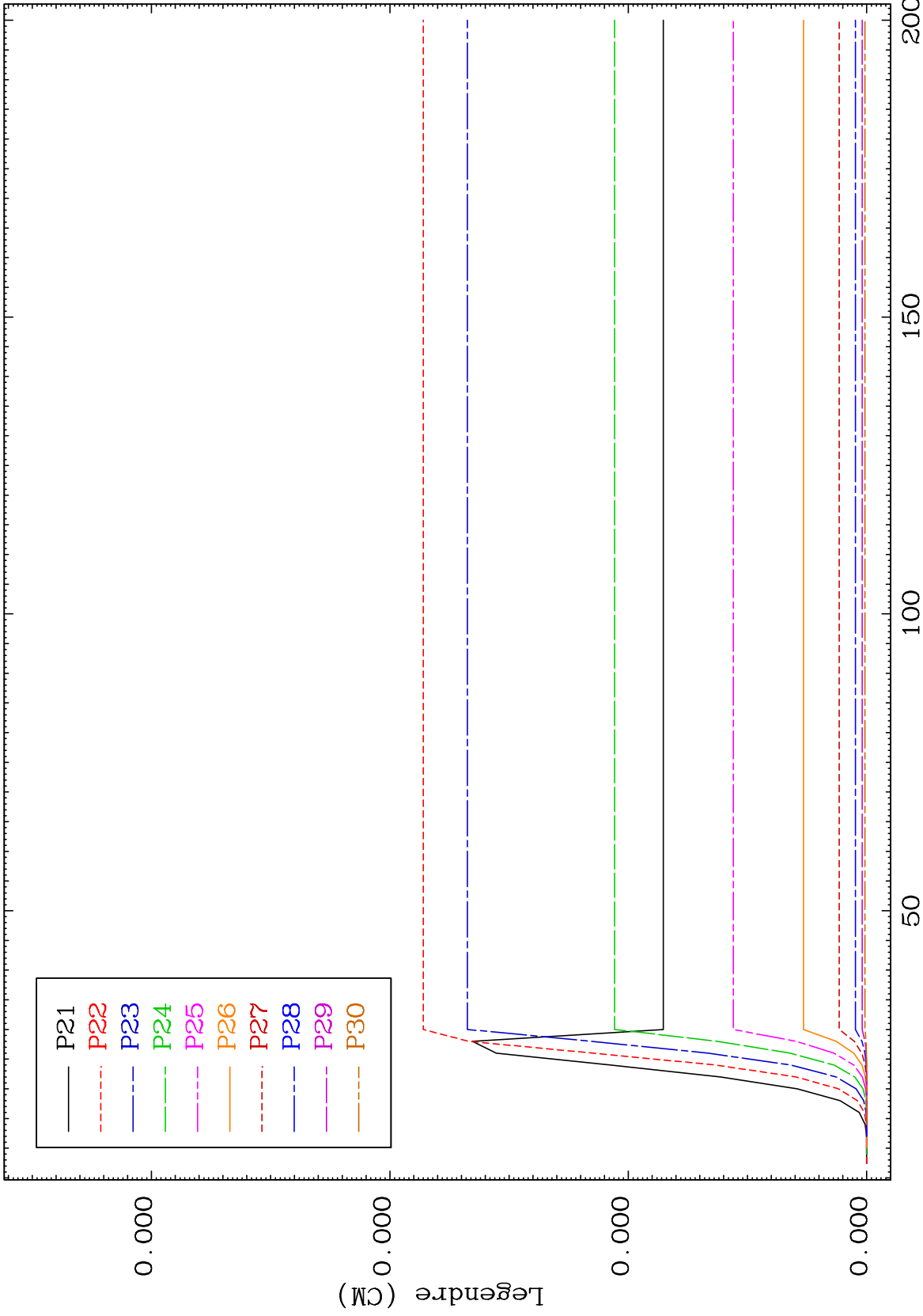
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154



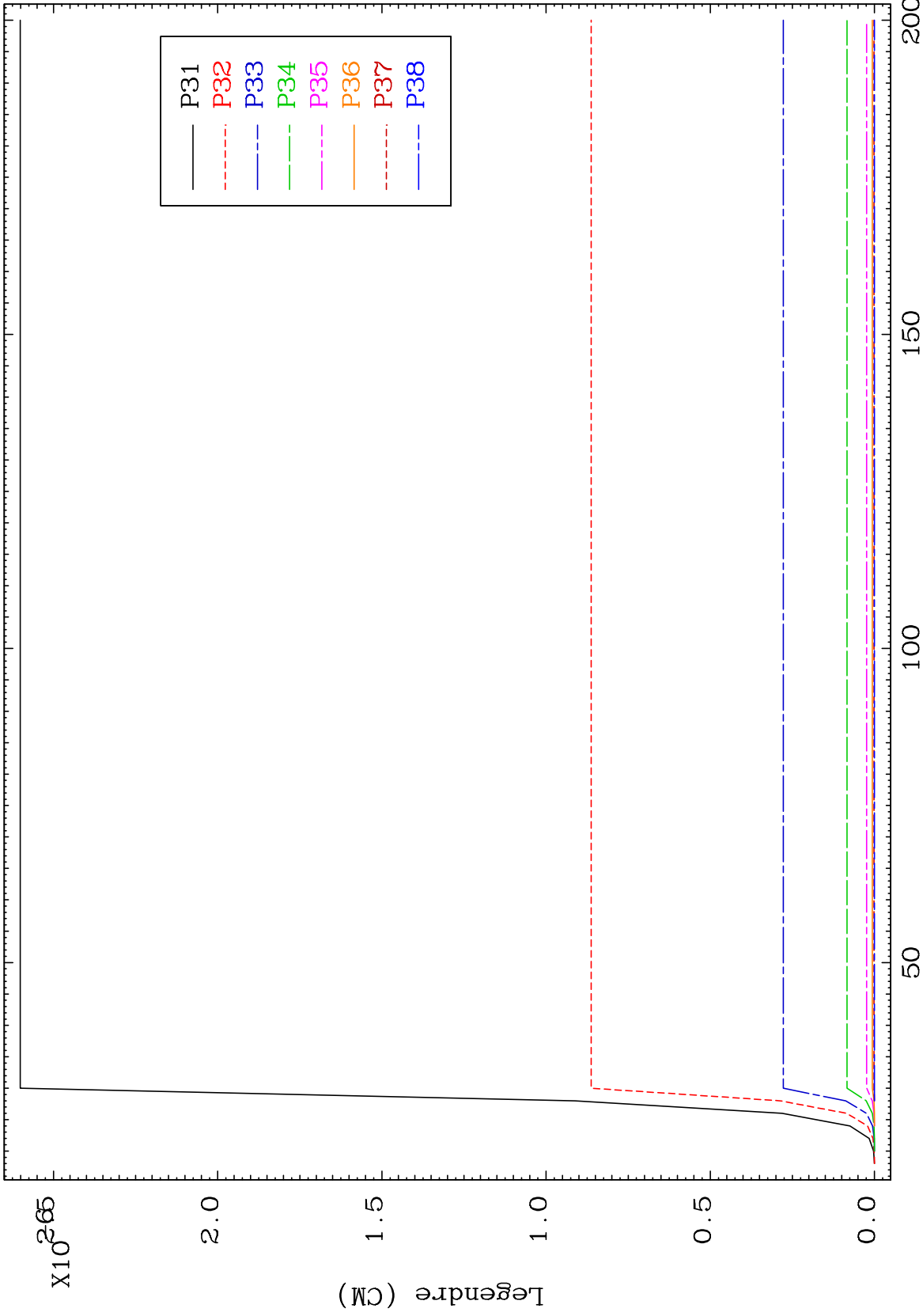
26

64-Gd-154

MAT 6431

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

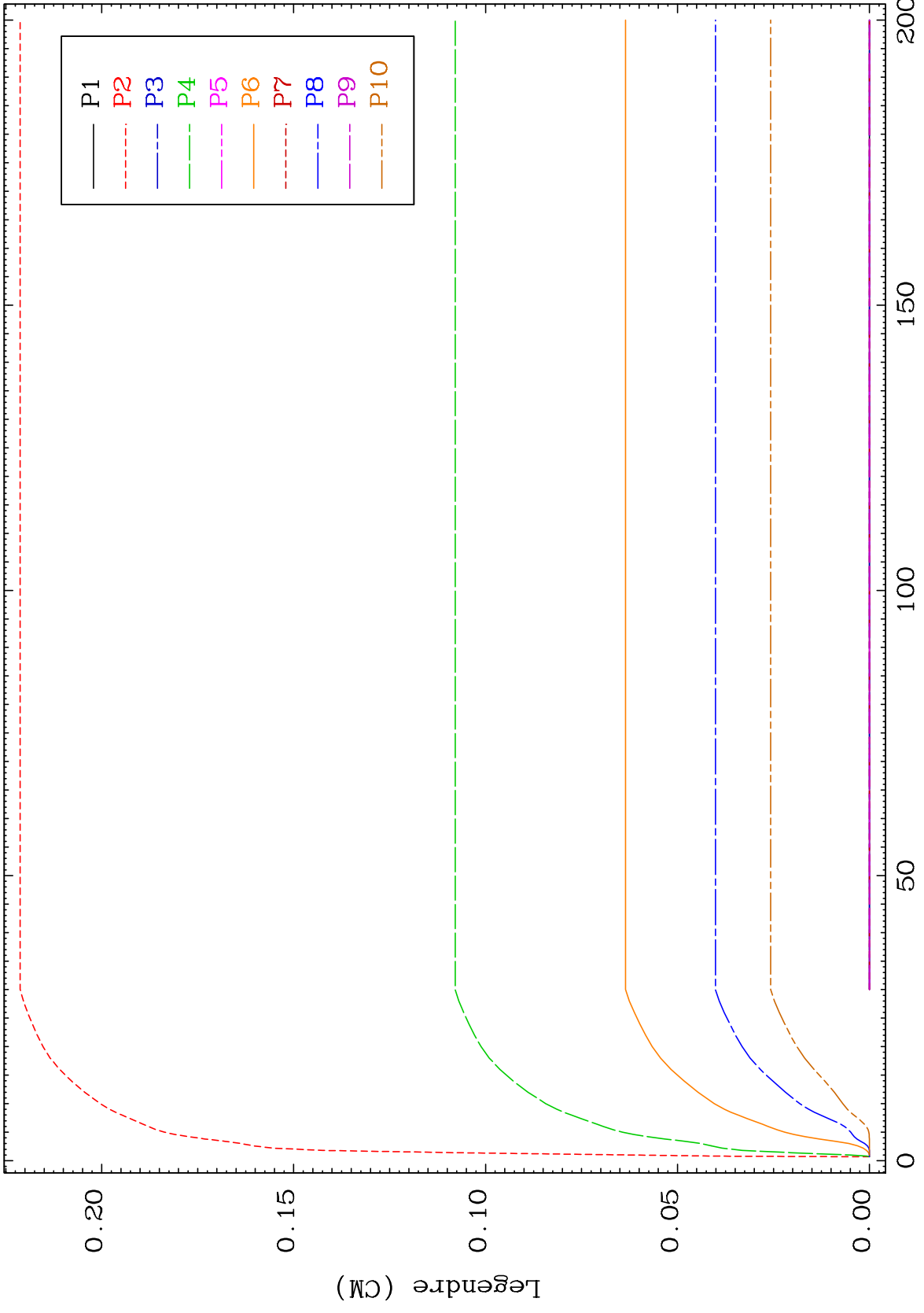
64-Gd-154



27

64-Gd-154

MAT 6431 MT= 53 (n,n') Level Legendre Coefficients 64-Gd-154

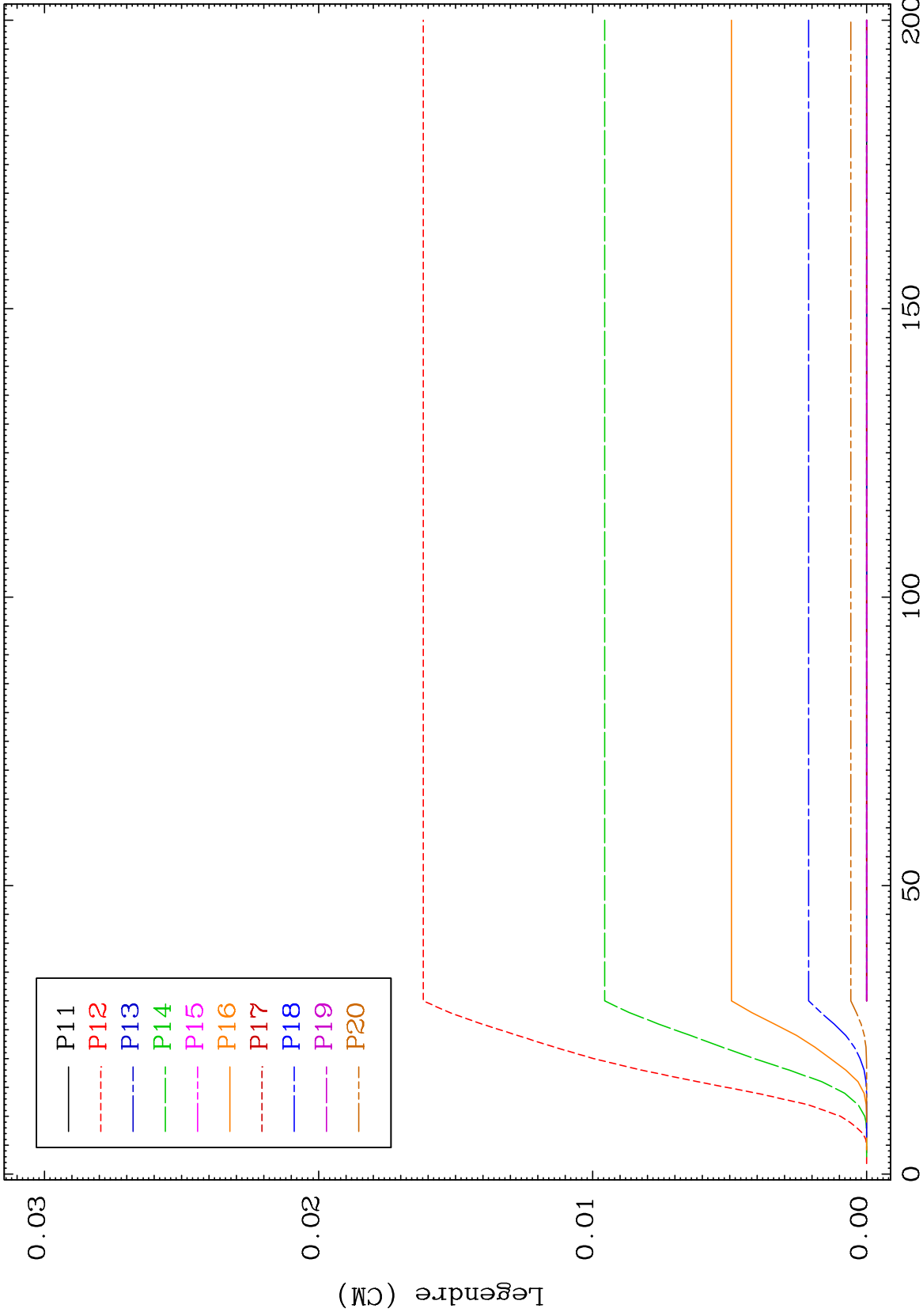


28 64-Gd-154

MAT 6431

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

64-Gd-154



29

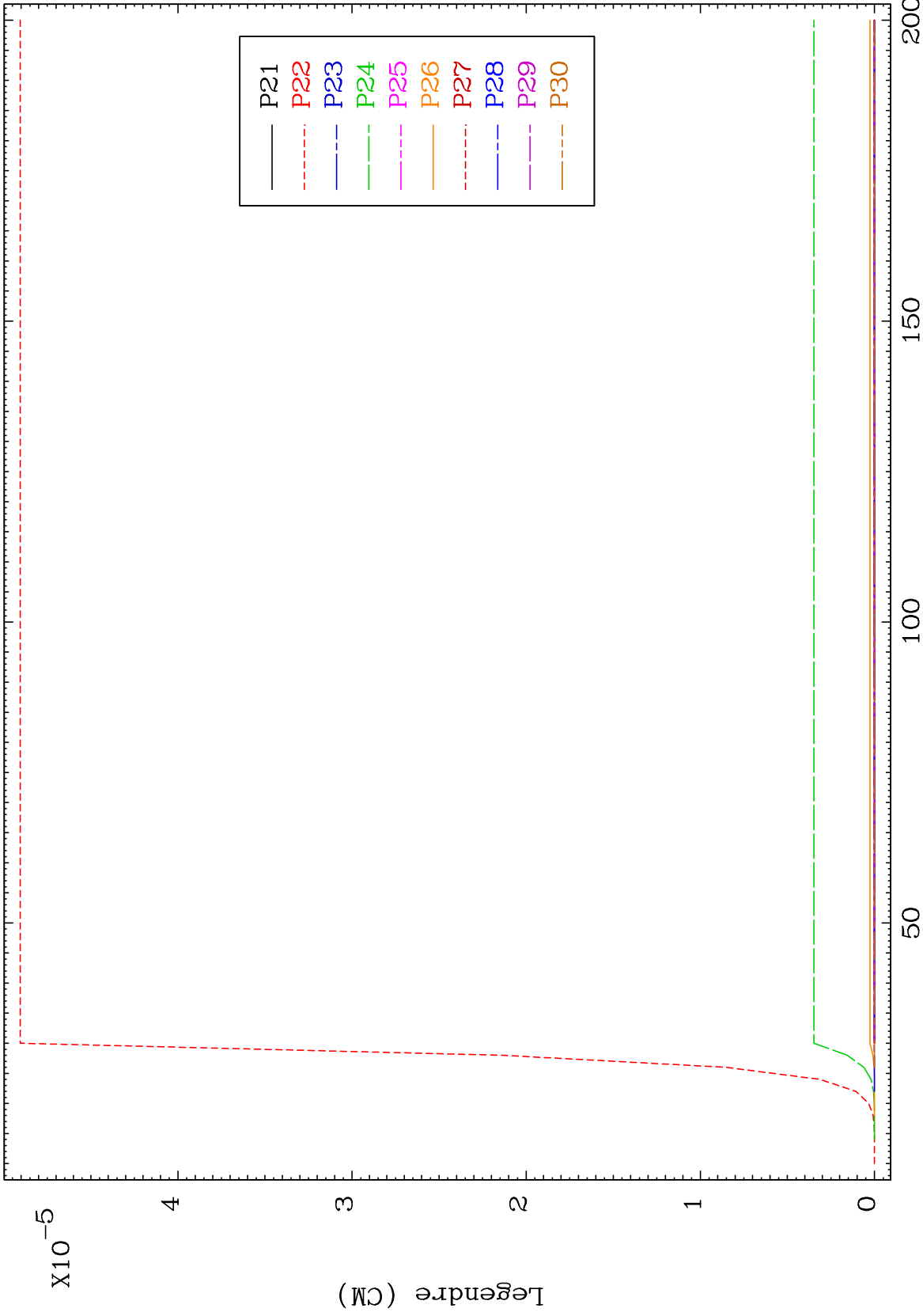
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154



30

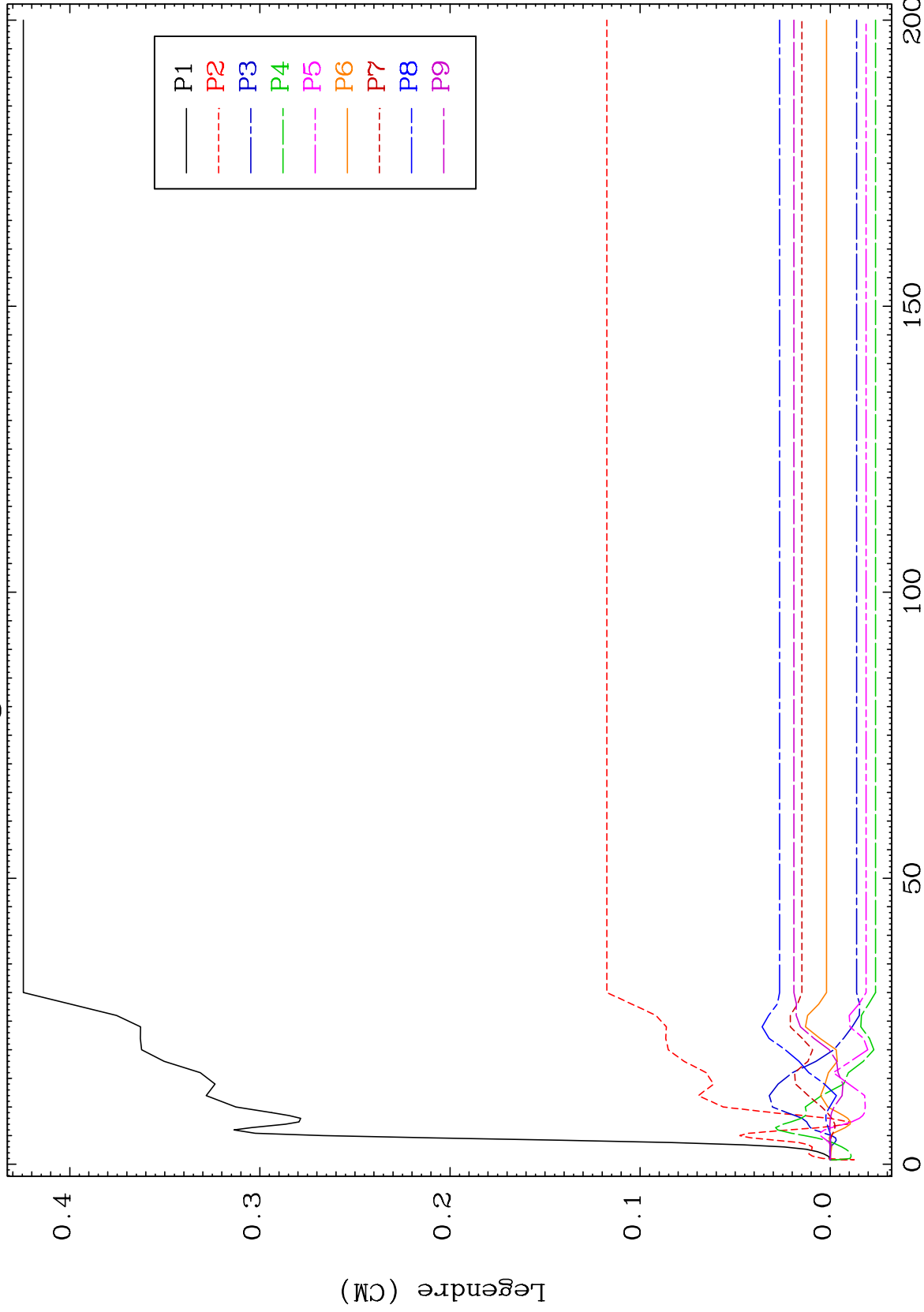
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154



31

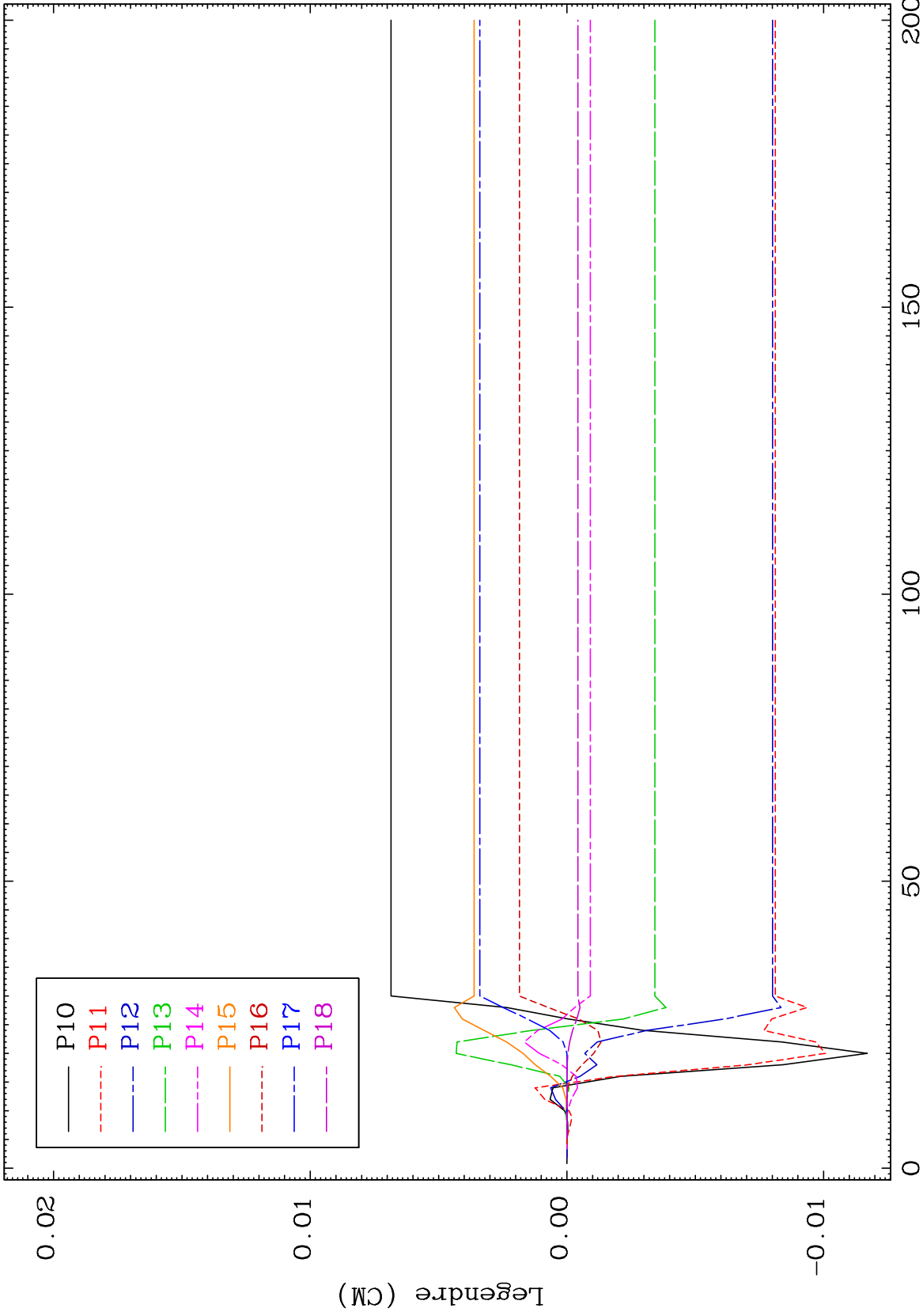
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154



32

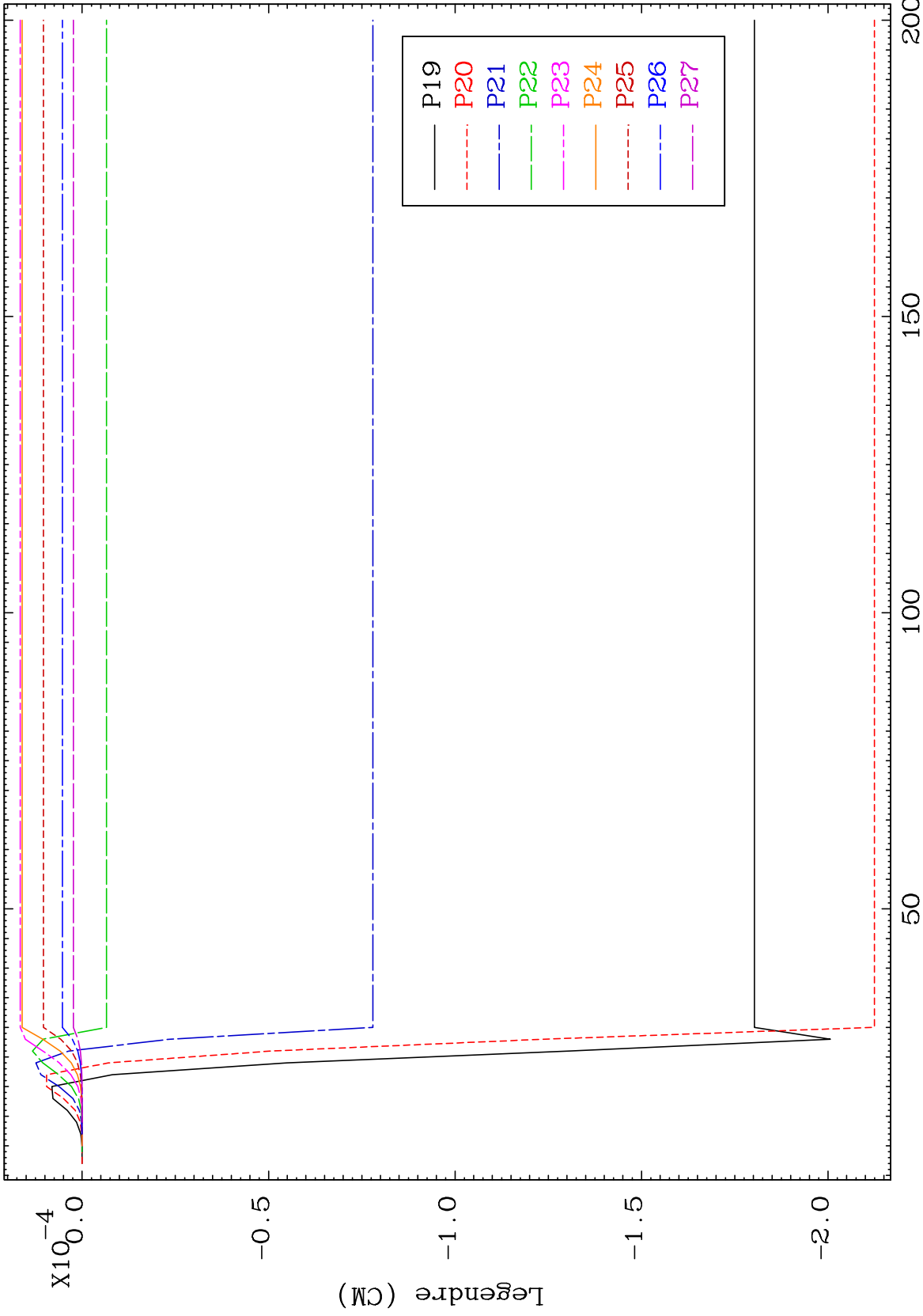
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154



64-Gd-154

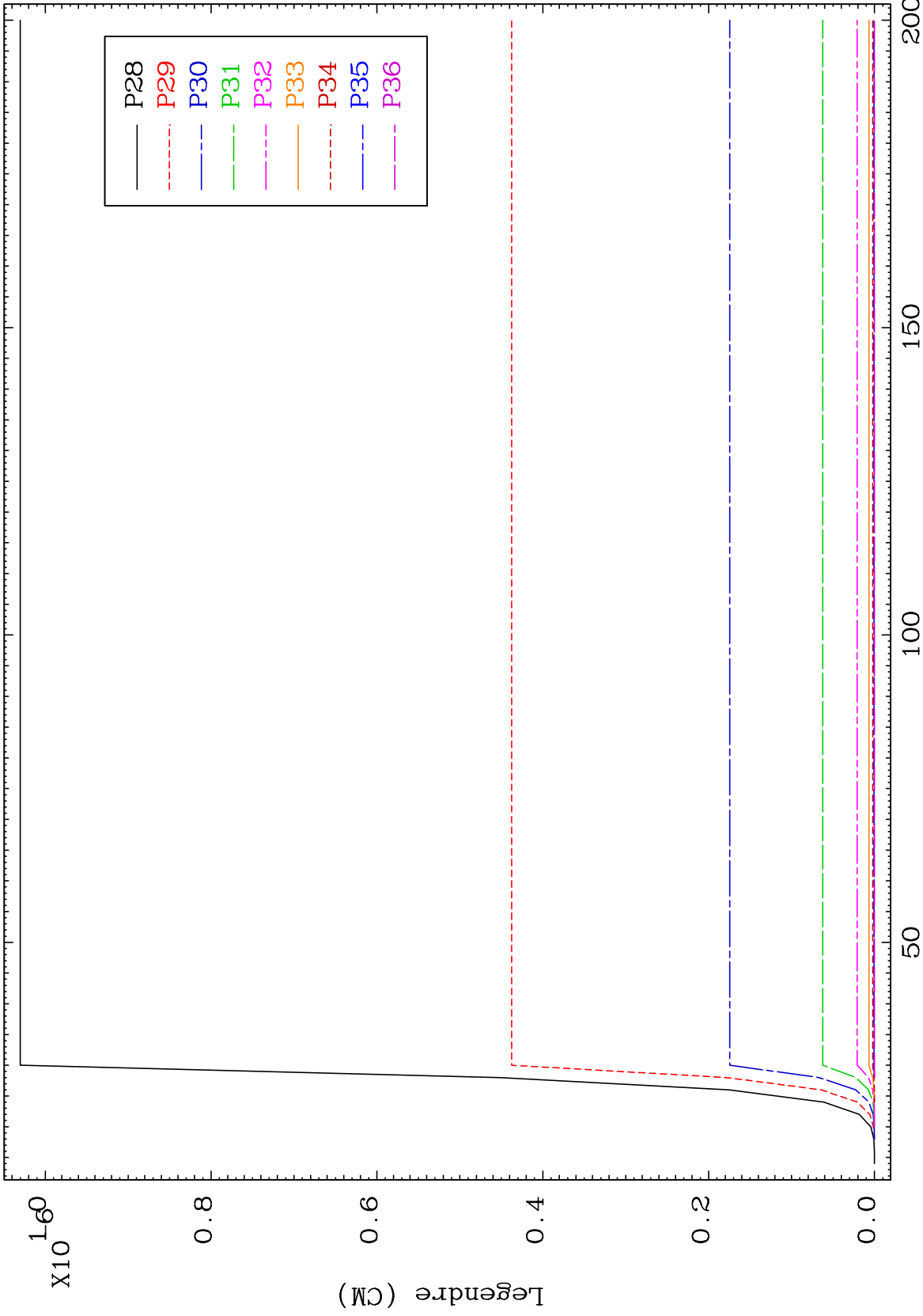
Incident Energy (MeV)

33

MAT 6431

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

64-Gd-154



34

Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154



64-Gd-154

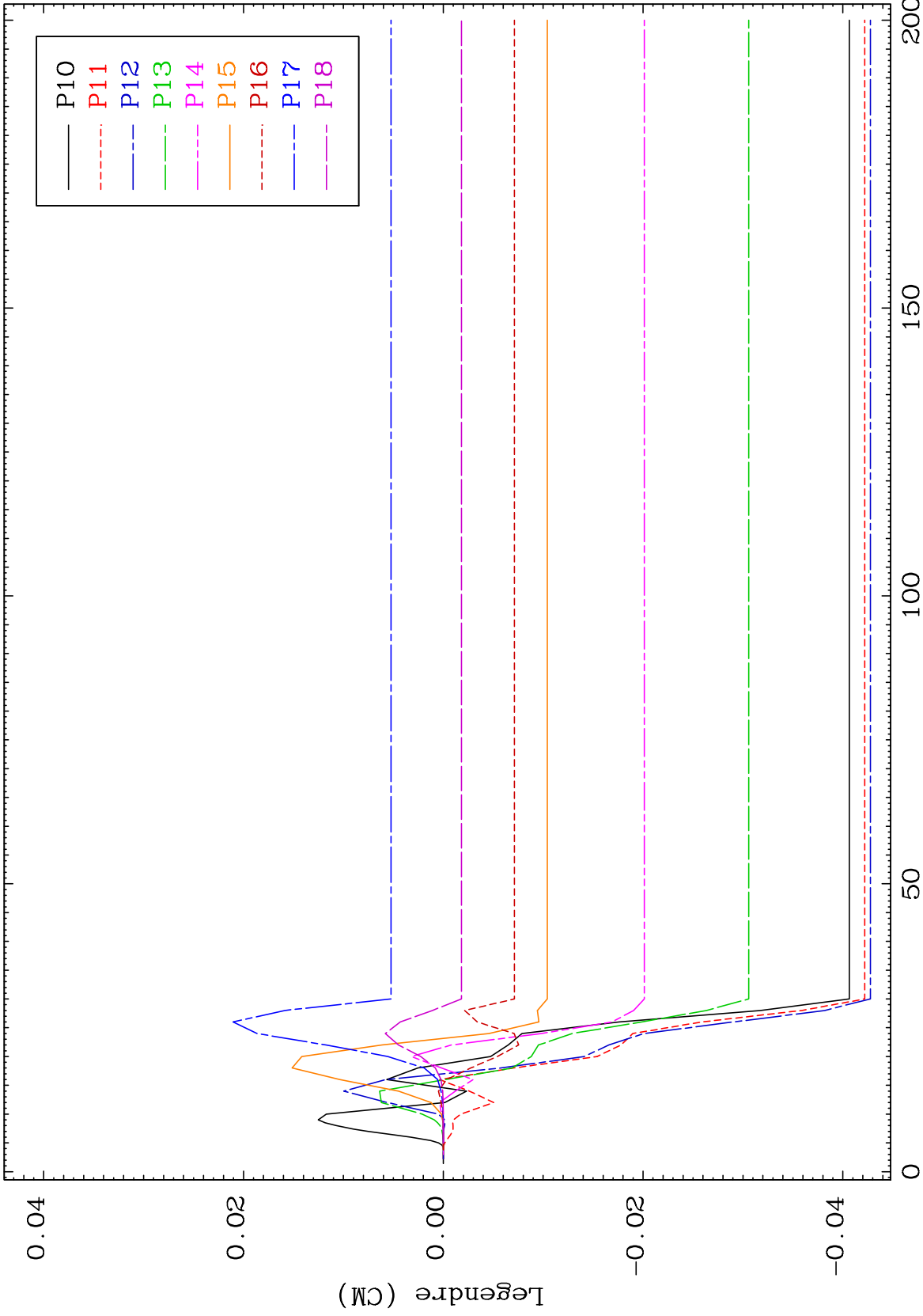
Incident Energy (MeV)

35

MAT 6431

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

64-Gd-154



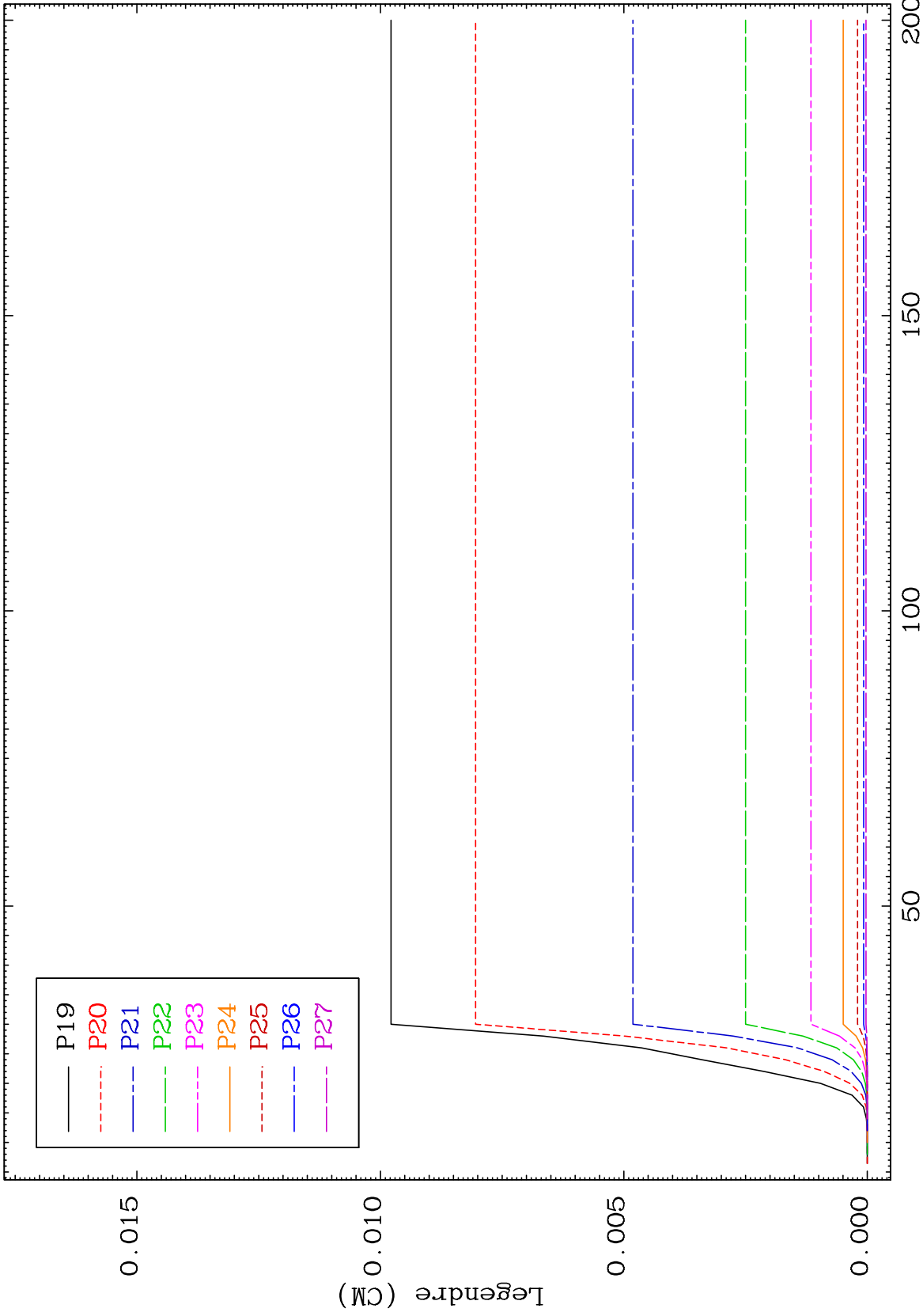
36

64-Gd-154

MAT 6431

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

64-Gd-154



37

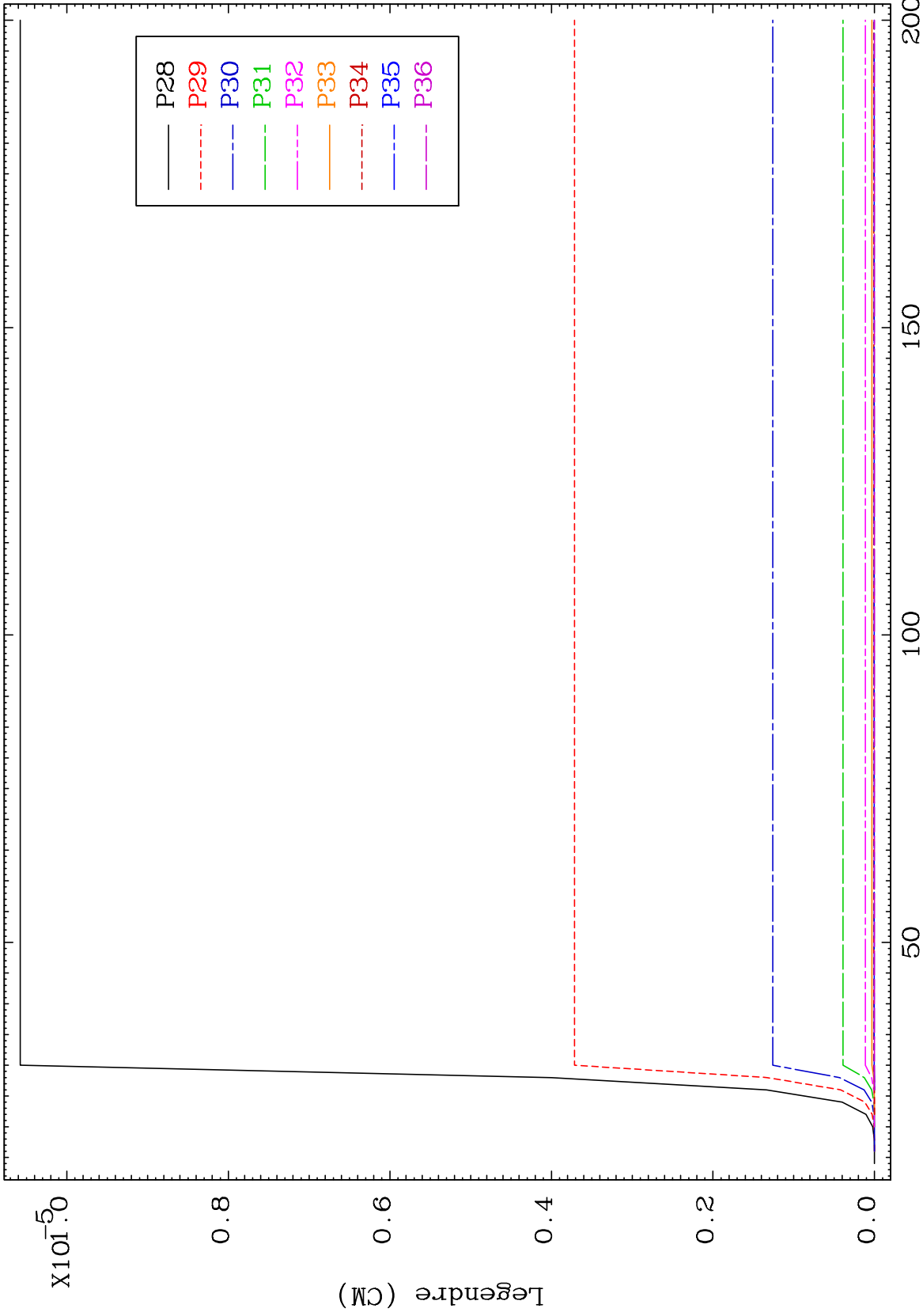
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154



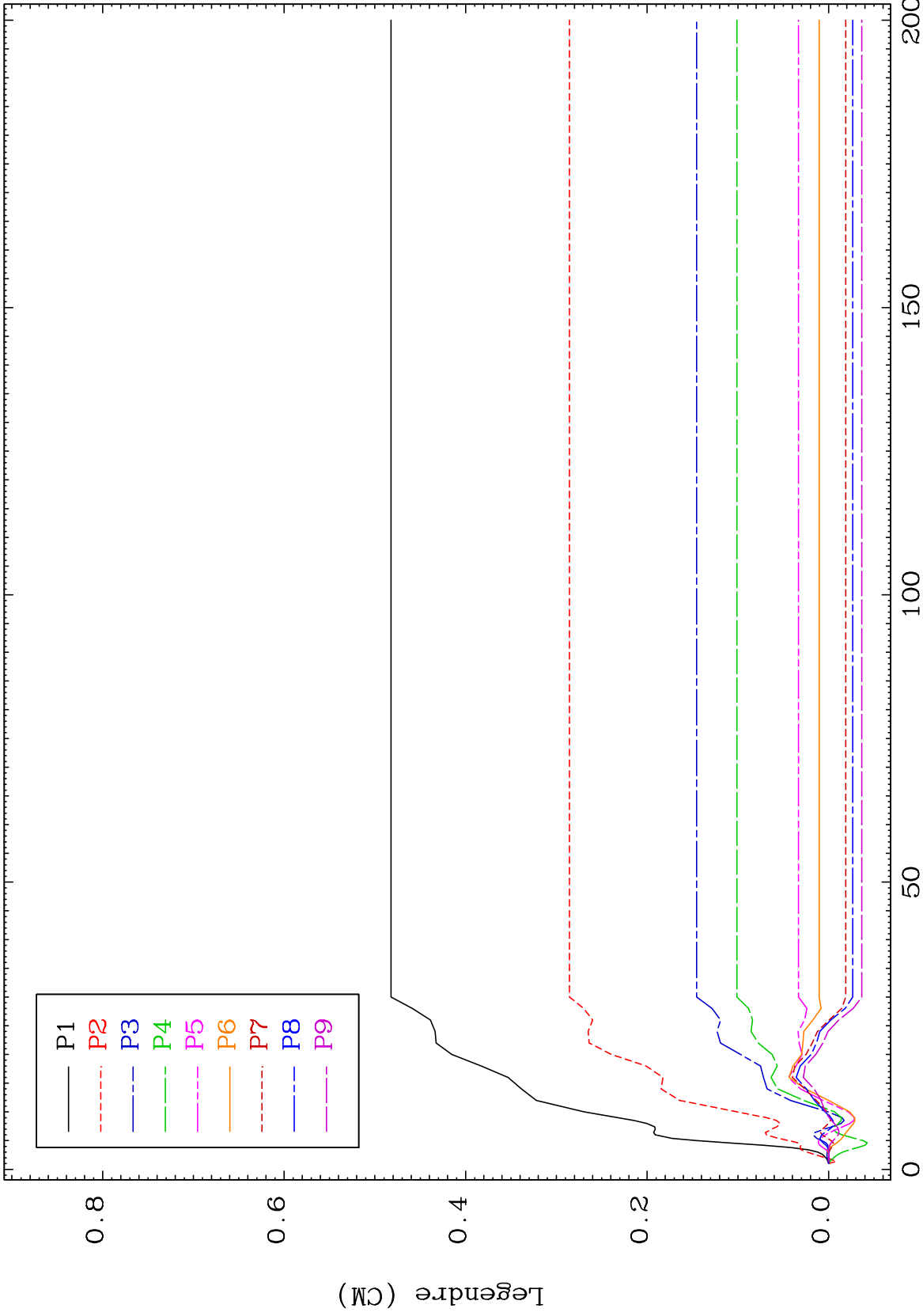
38

64-Gd-154

MAT 6431

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

64-Gd-154



39

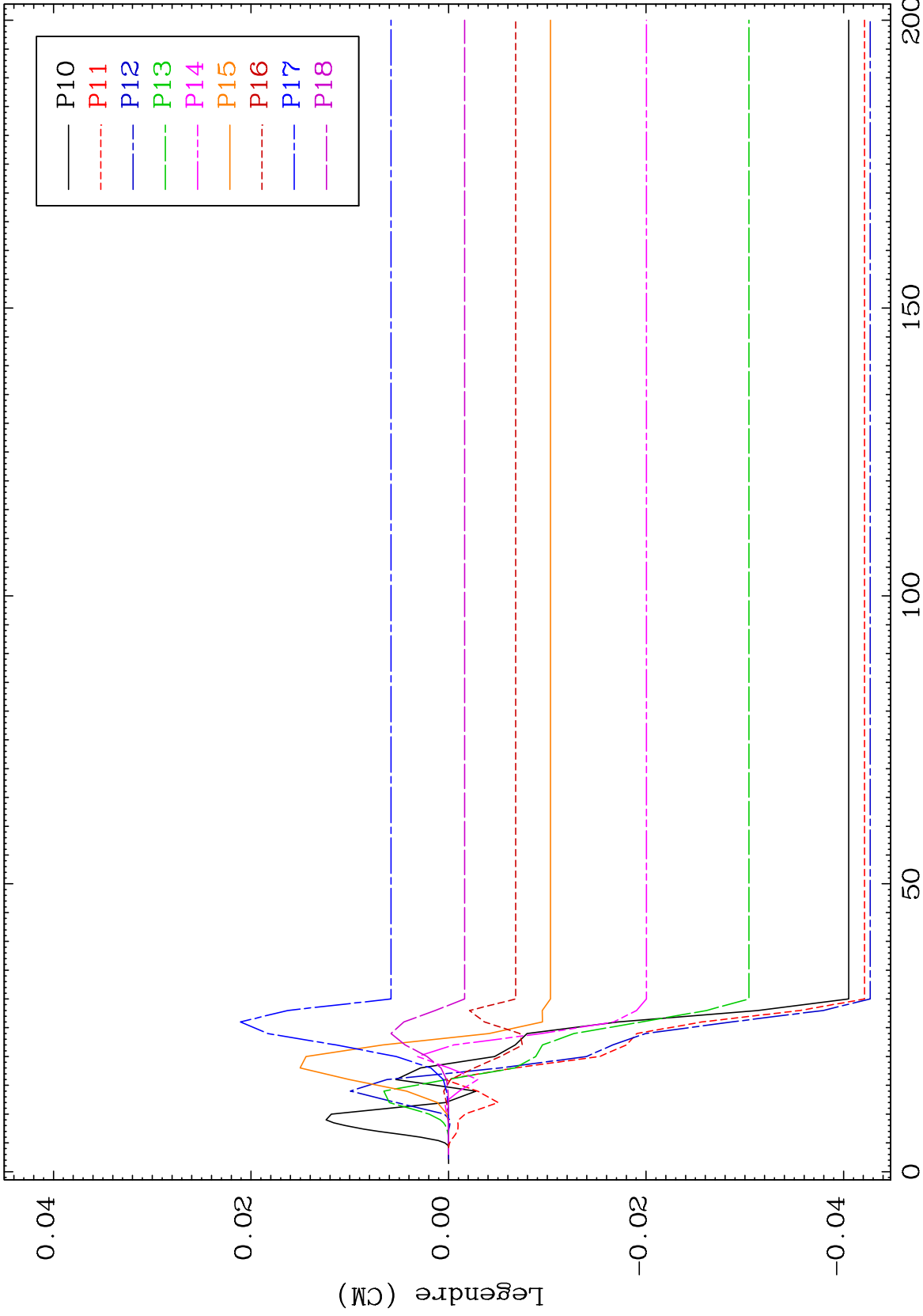
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154



40

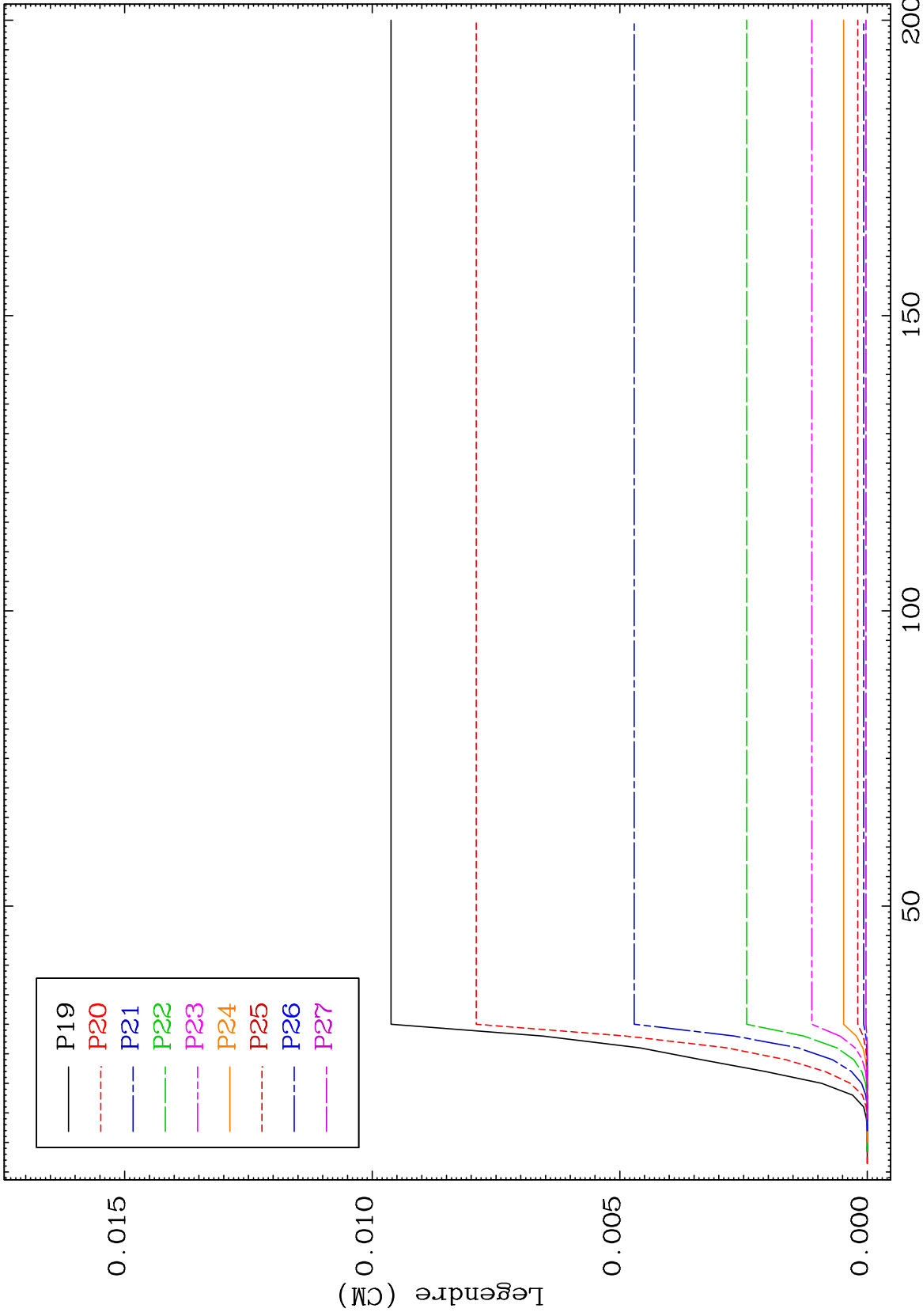
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

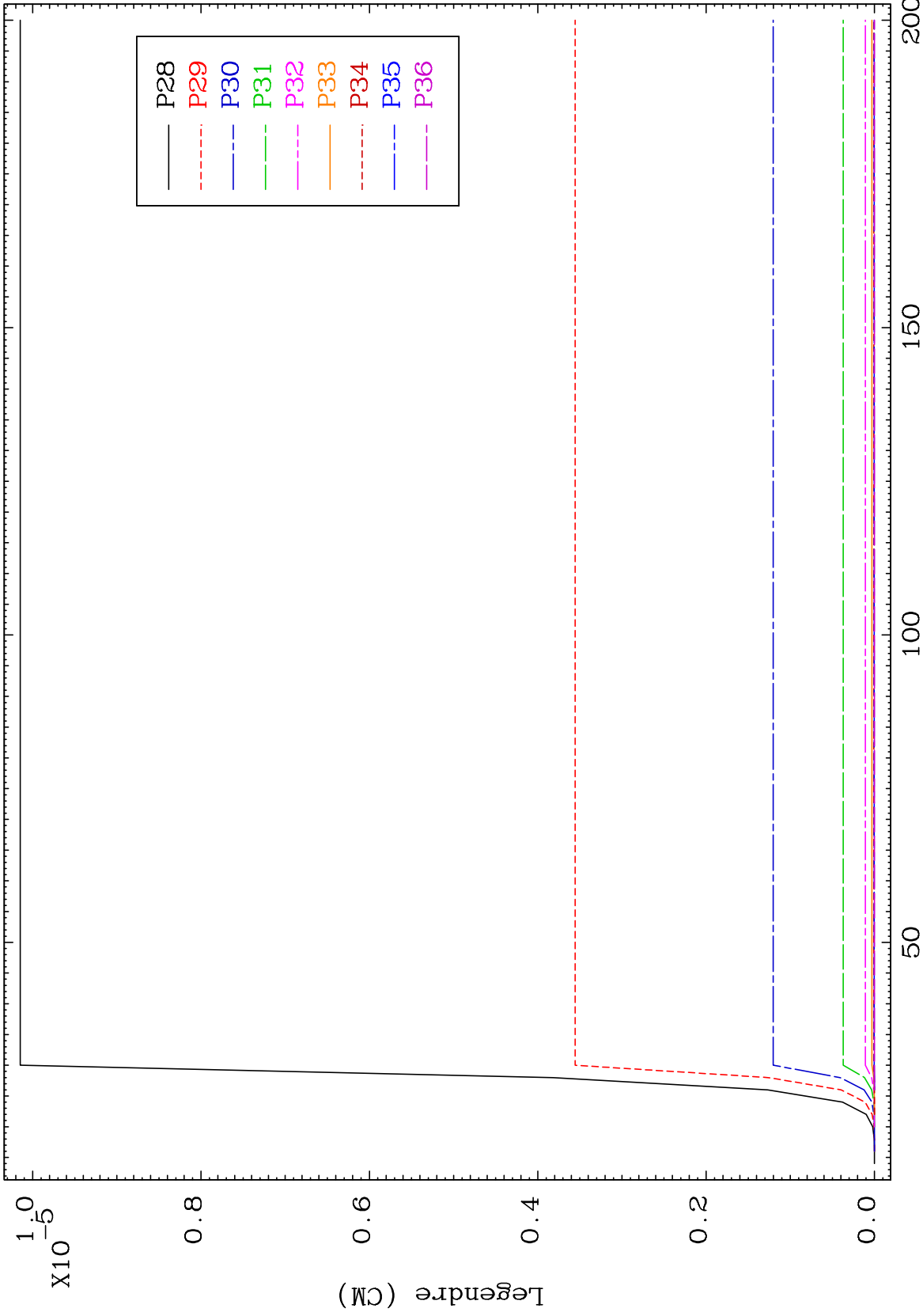
64-Gd-154



MAT 6431

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

64-Gd-154



42

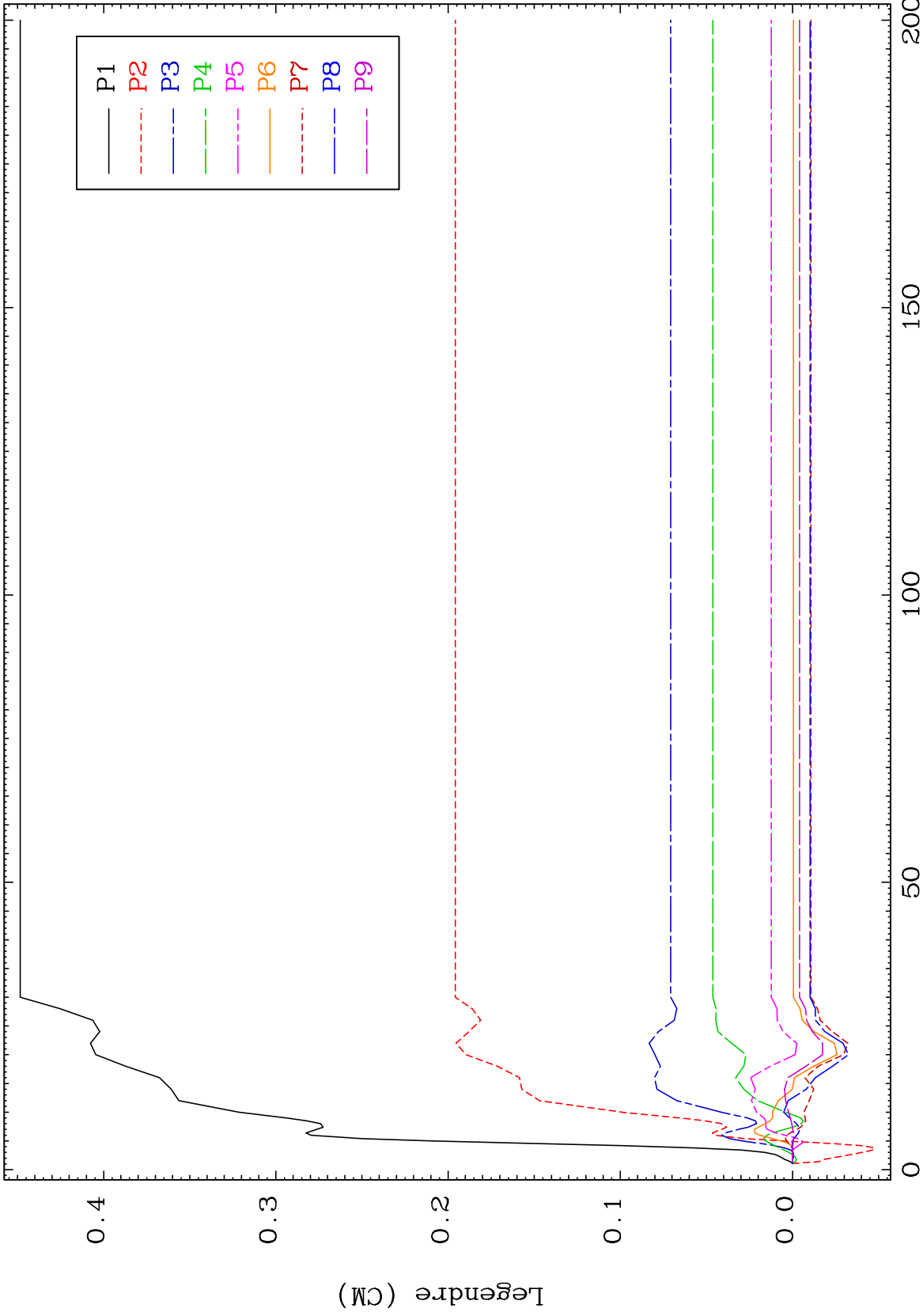
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154

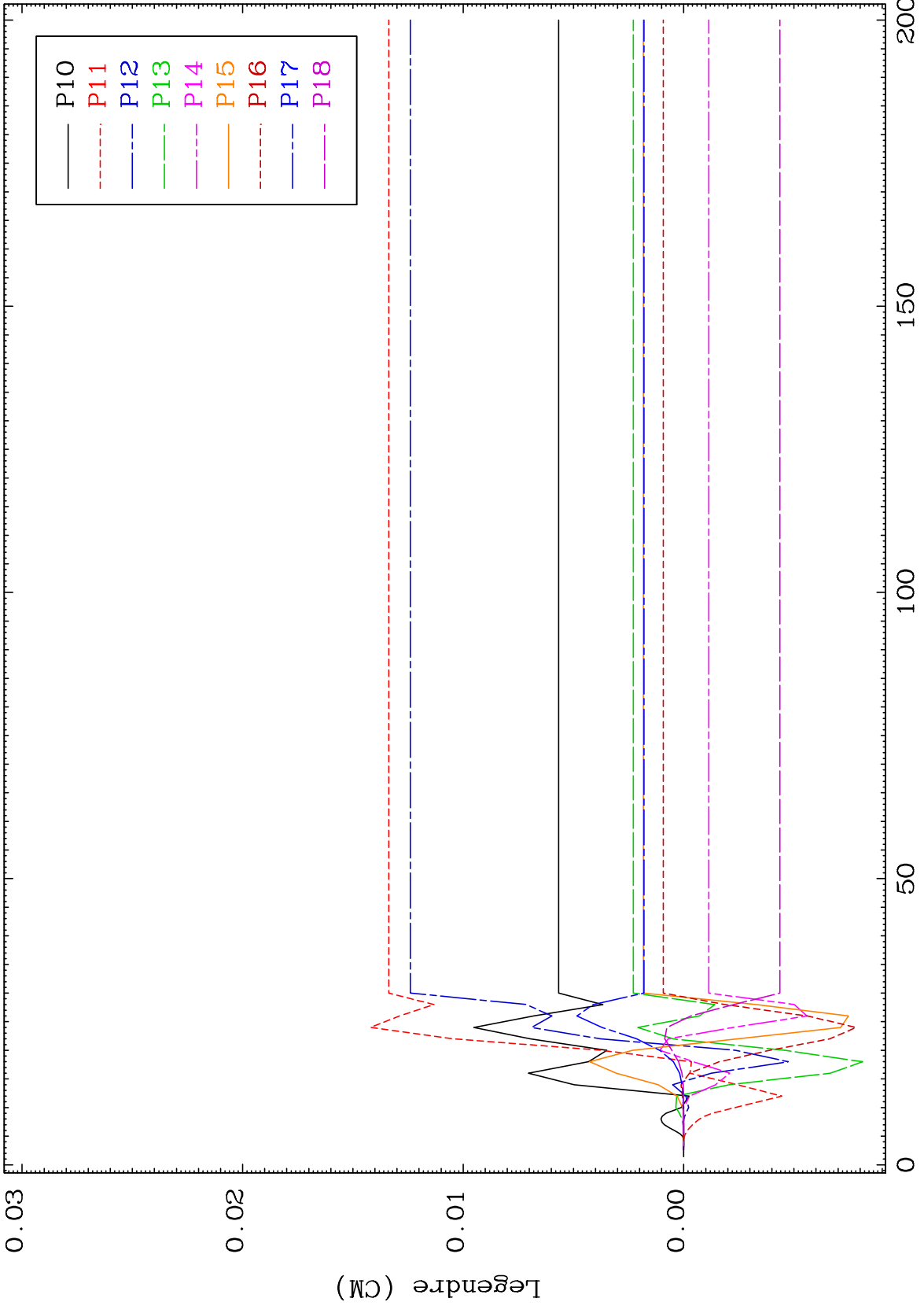


43

Incident Energy (MeV)

64-Gd-154

MAT 6431 MT= 57 (n,n') Level Legendre Coefficients 64-Gd-154

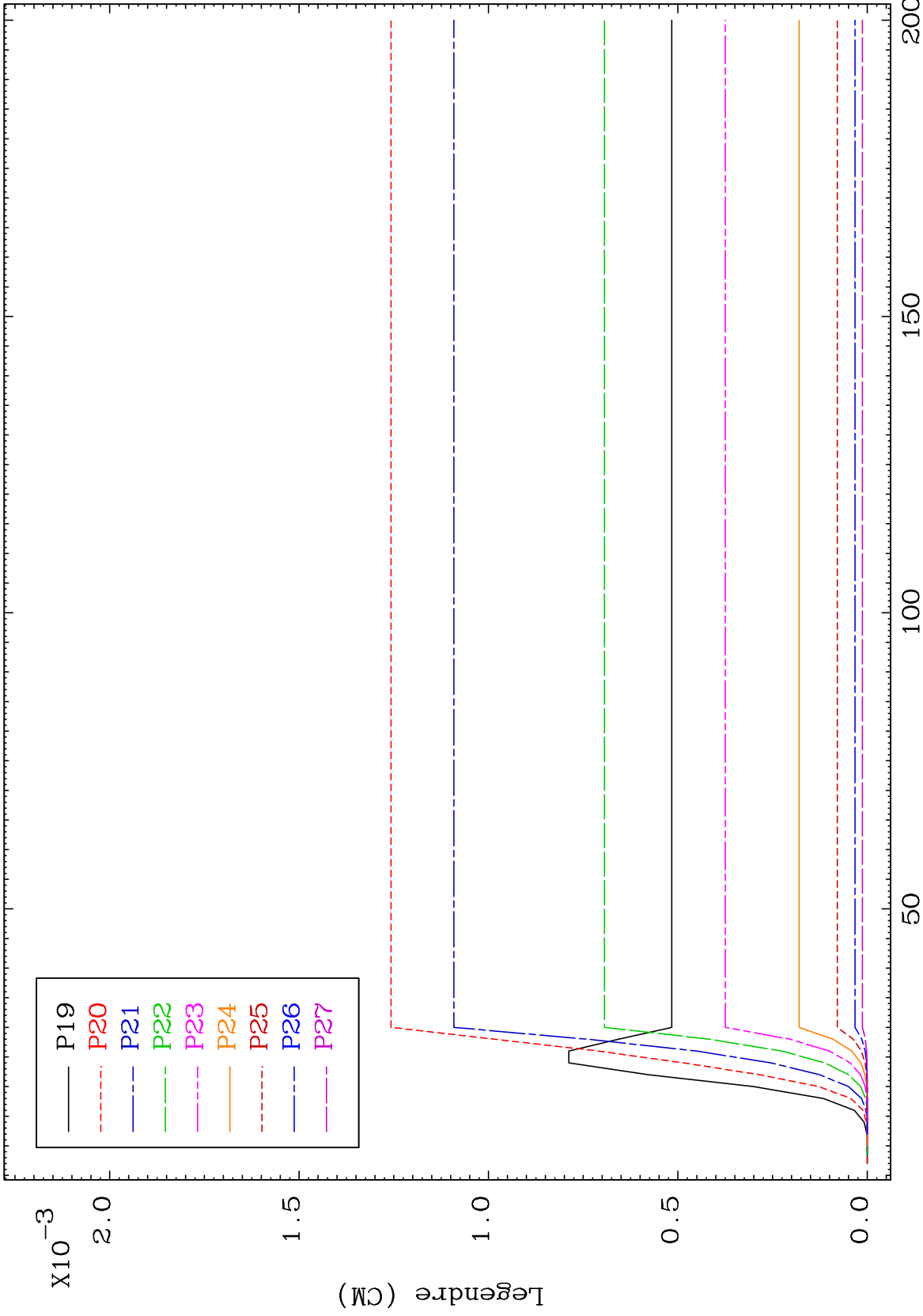


44 64-Gd-154

MAT 6431

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

64-Gd-154



45

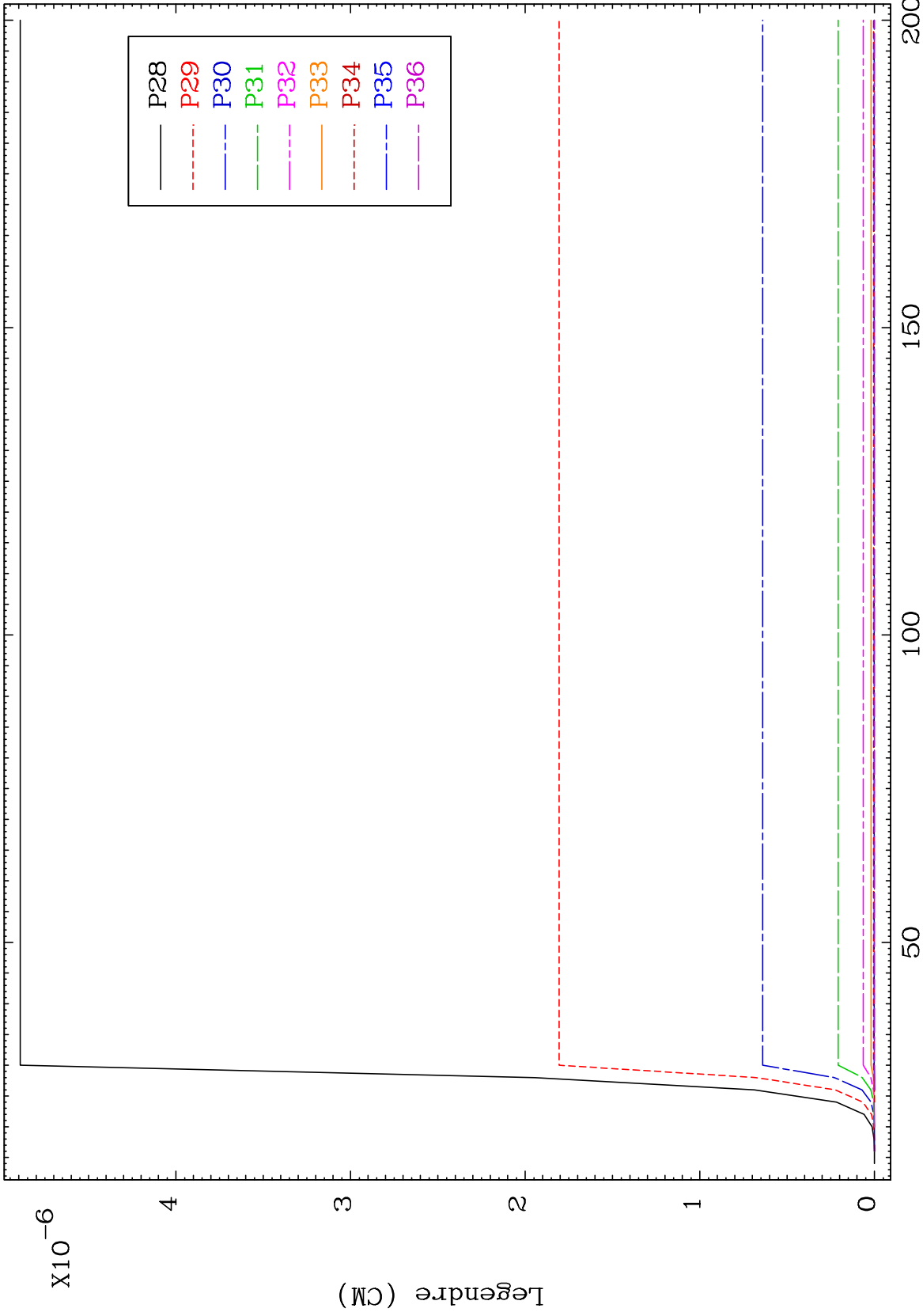
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154

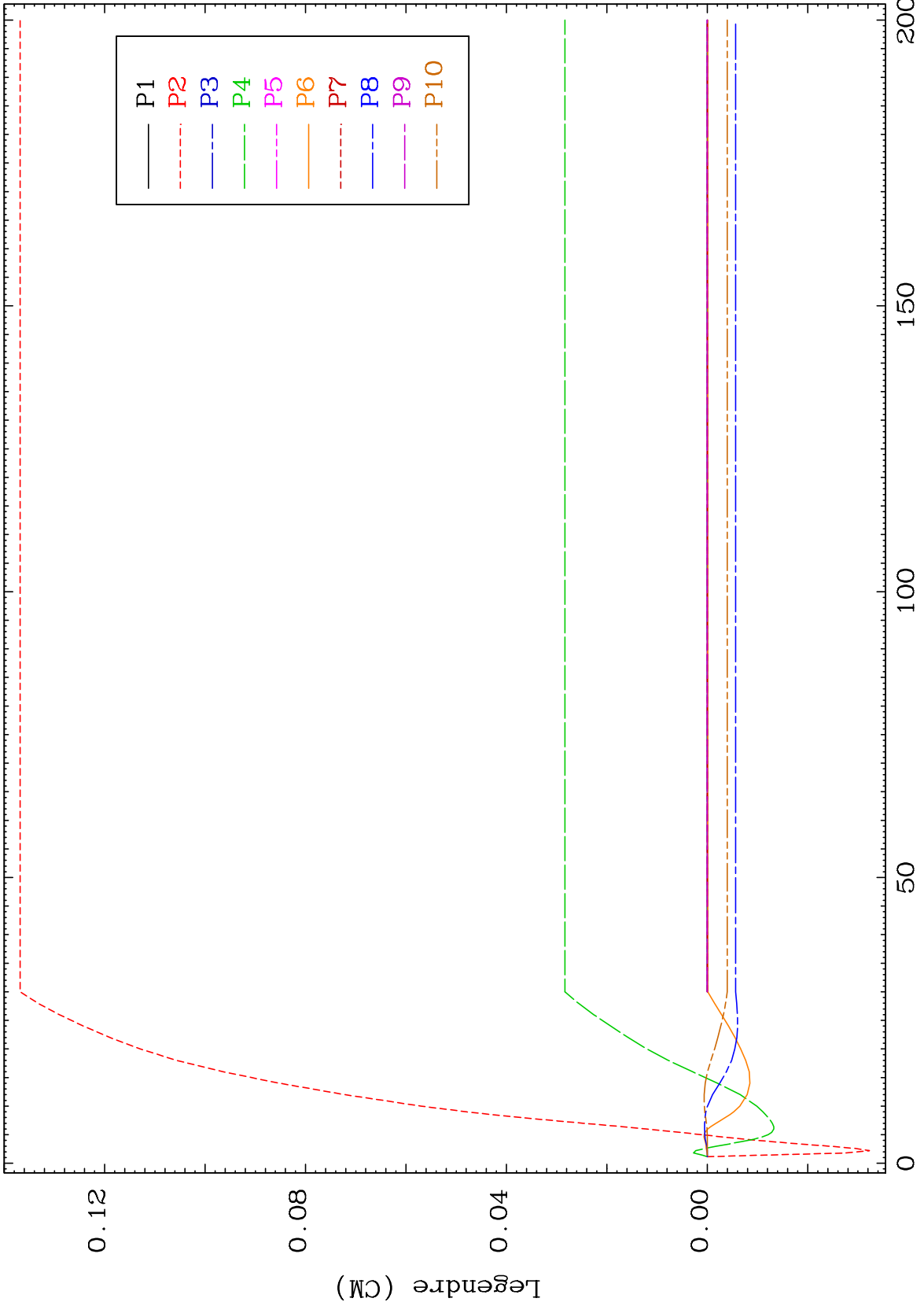


46

Incident Energy (MeV)

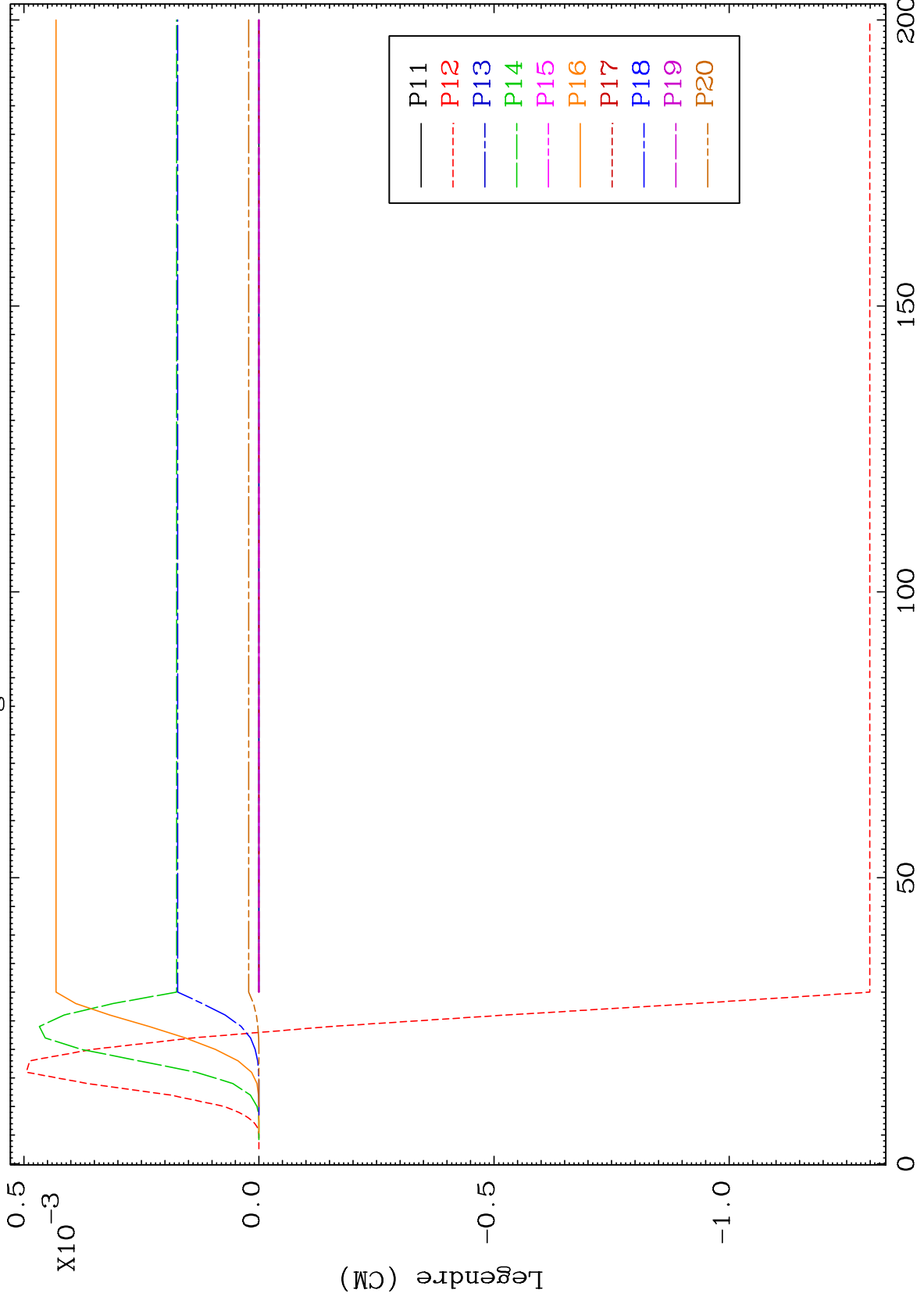
64-Gd-154

MAT 6431 MT= 58 (n,n') Level Legendre Coefficients 64-Gd-154



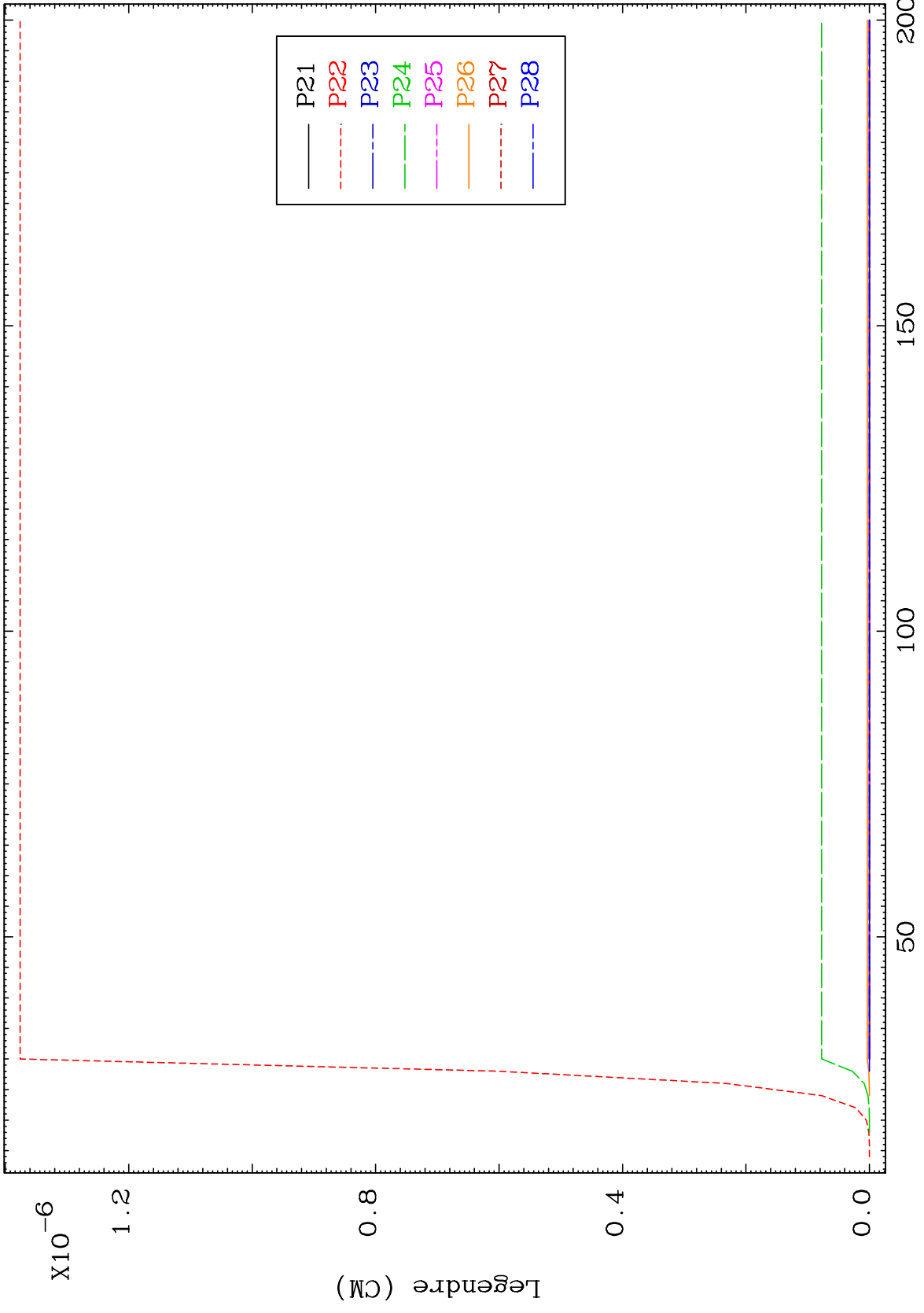
47 64-Gd-154

MAT 6431 MT= 58 (n,n') Level Legendre Coefficients 64-Gd-154



48 64-Gd-154

MAT 6431 MT= 58 (n,n') Level Legendre Coefficients 64-Gd-154

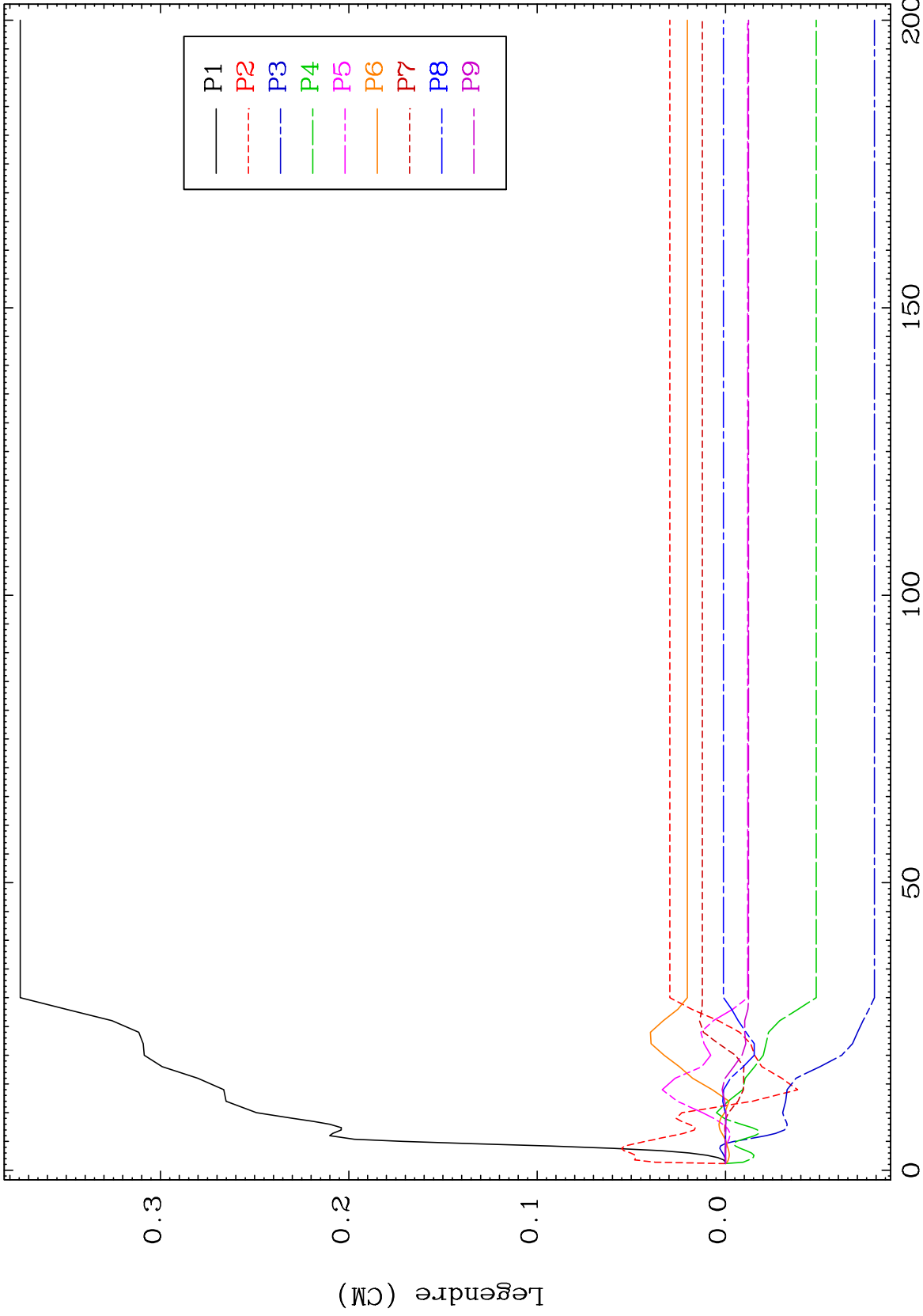


49 50 100 150 200 64-Gd-154

MAT 6431

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

64-Gd-154



64-Gd-154

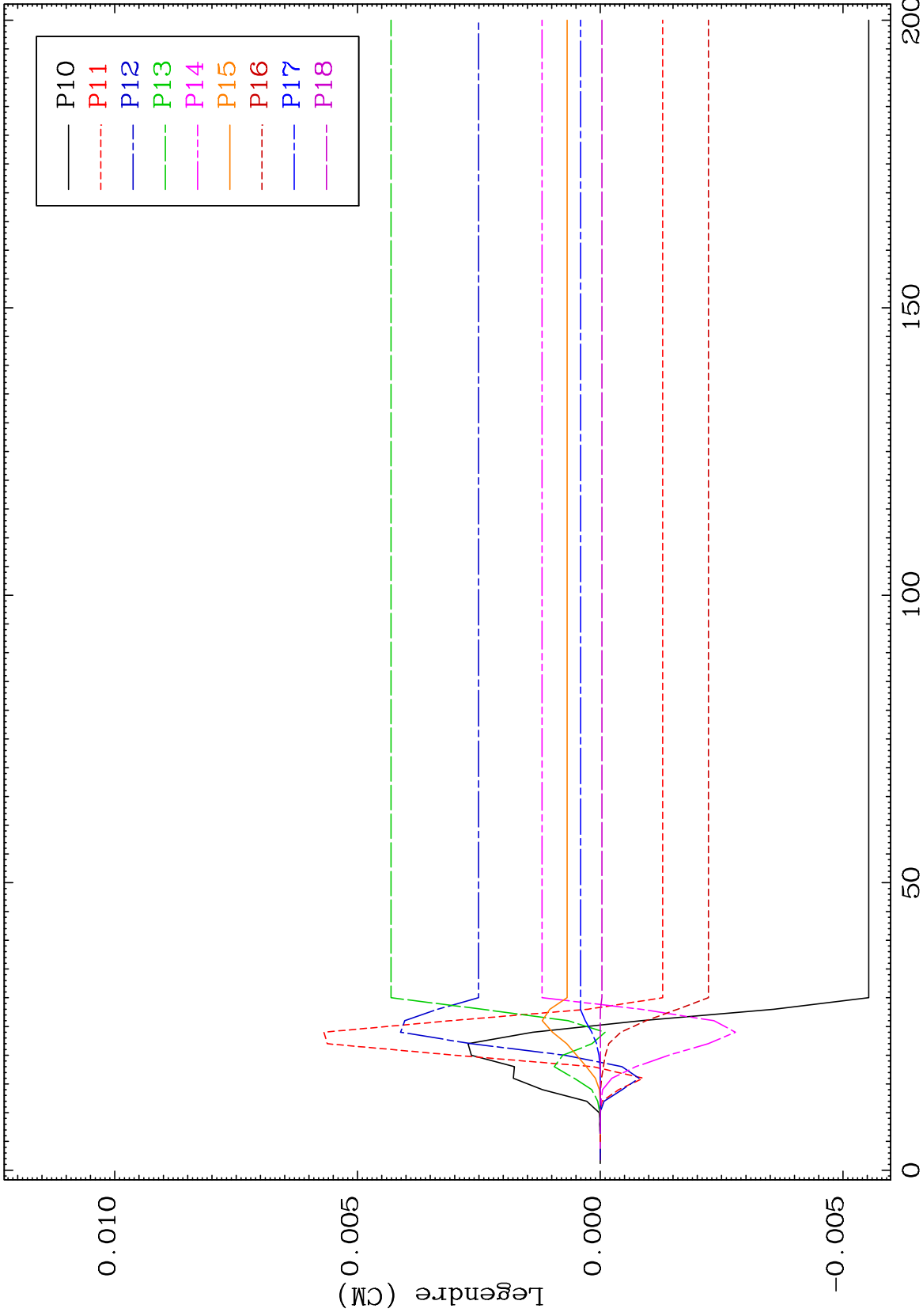
Incident Energy (MeV)

50

MAT 6431

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

64-Gd-154



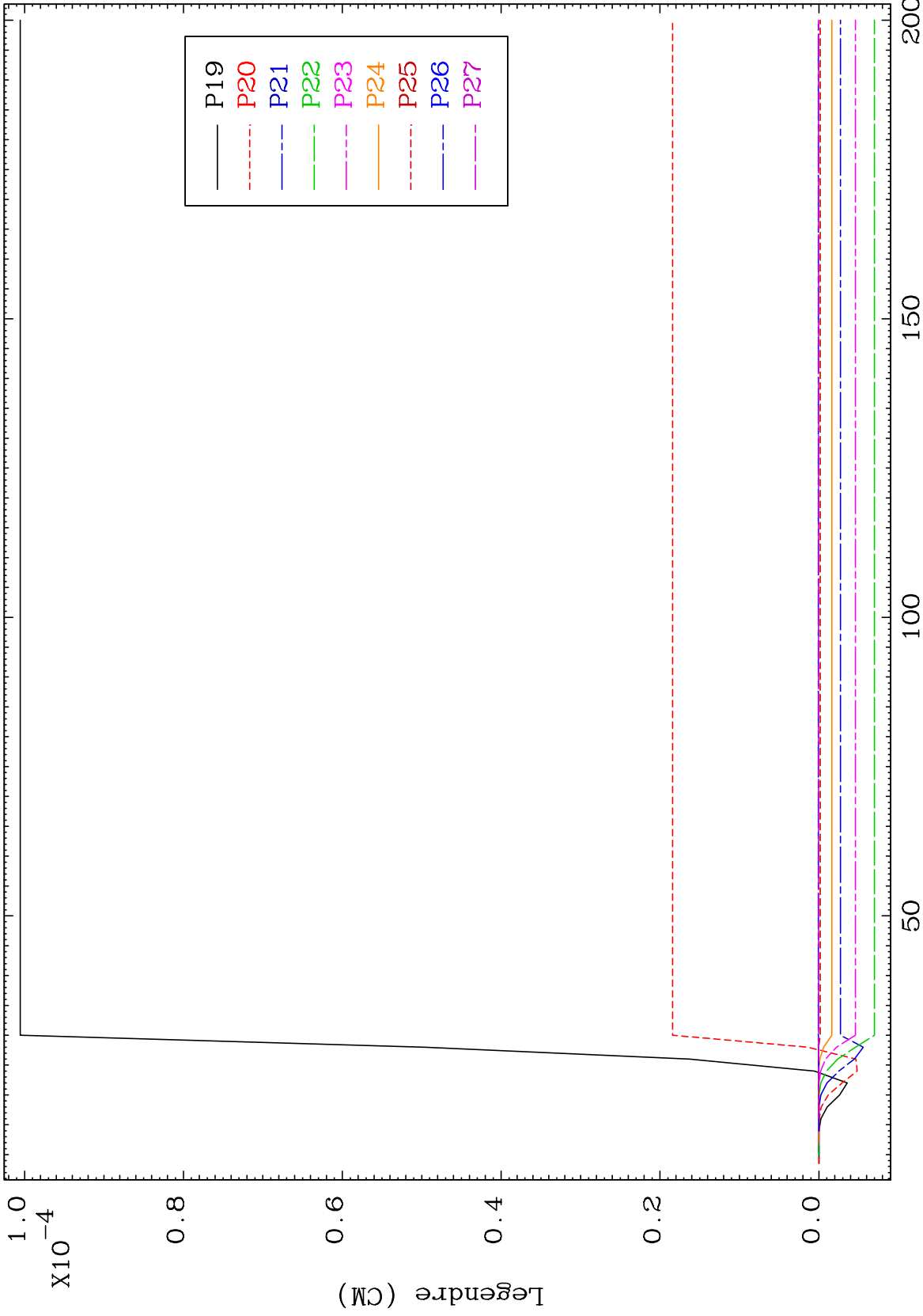
51

64-Gd-154

MAT 6431

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

64-Gd-154



52

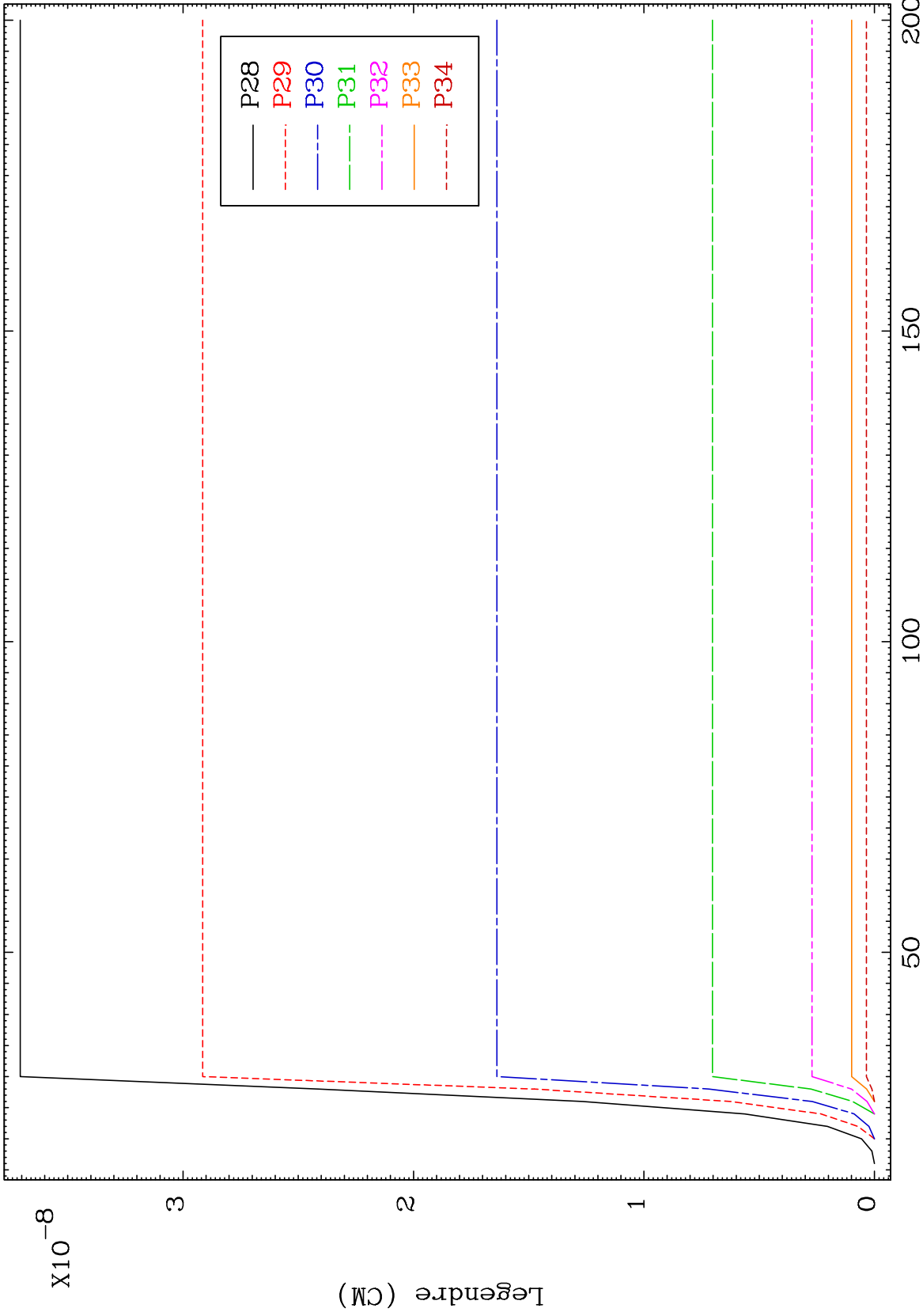
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154

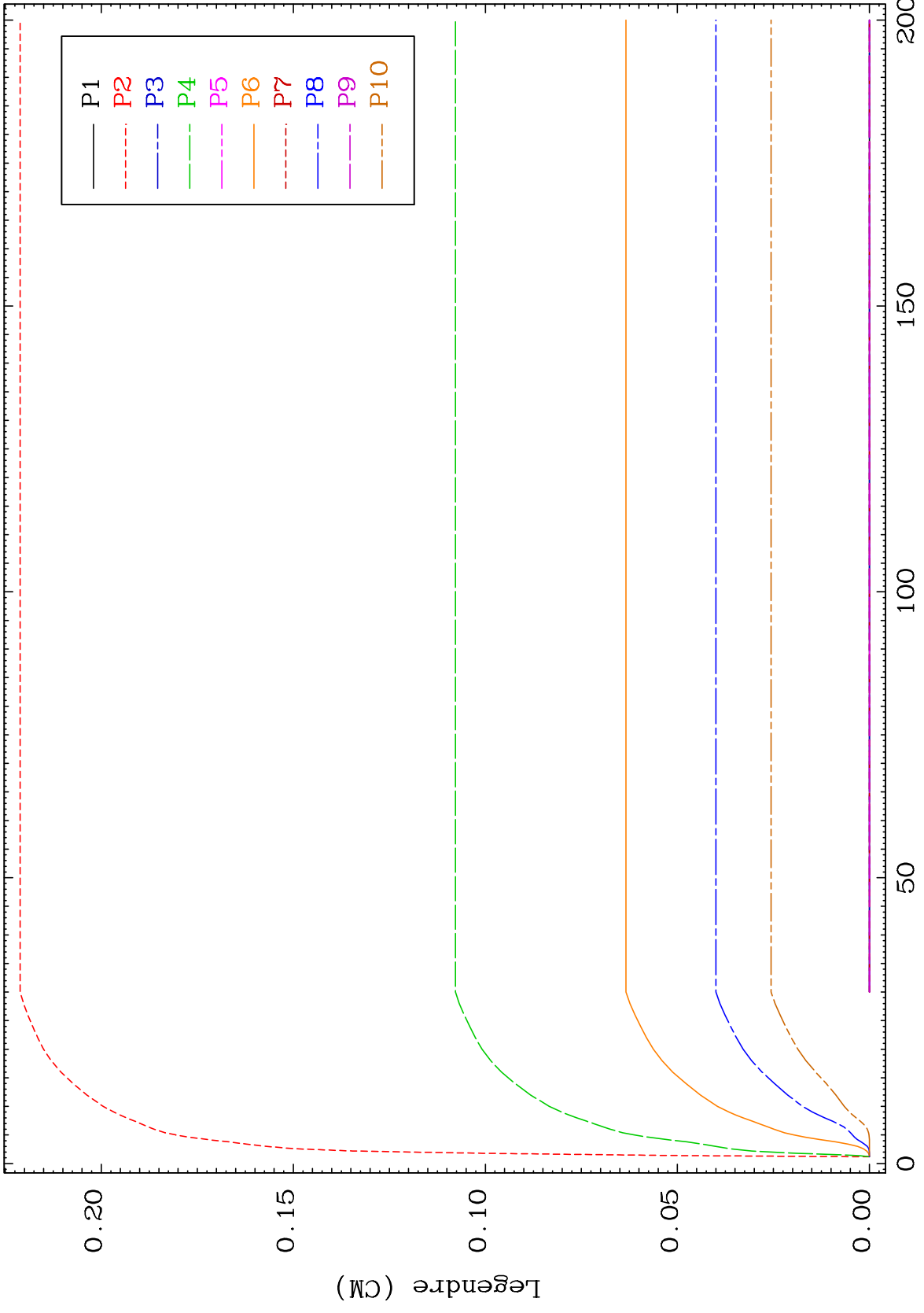


53

Incident Energy (MeV)

64-Gd-154

MAT 6431 MT= 60 (n,n') Level Legendre Coefficients 64-Gd-154

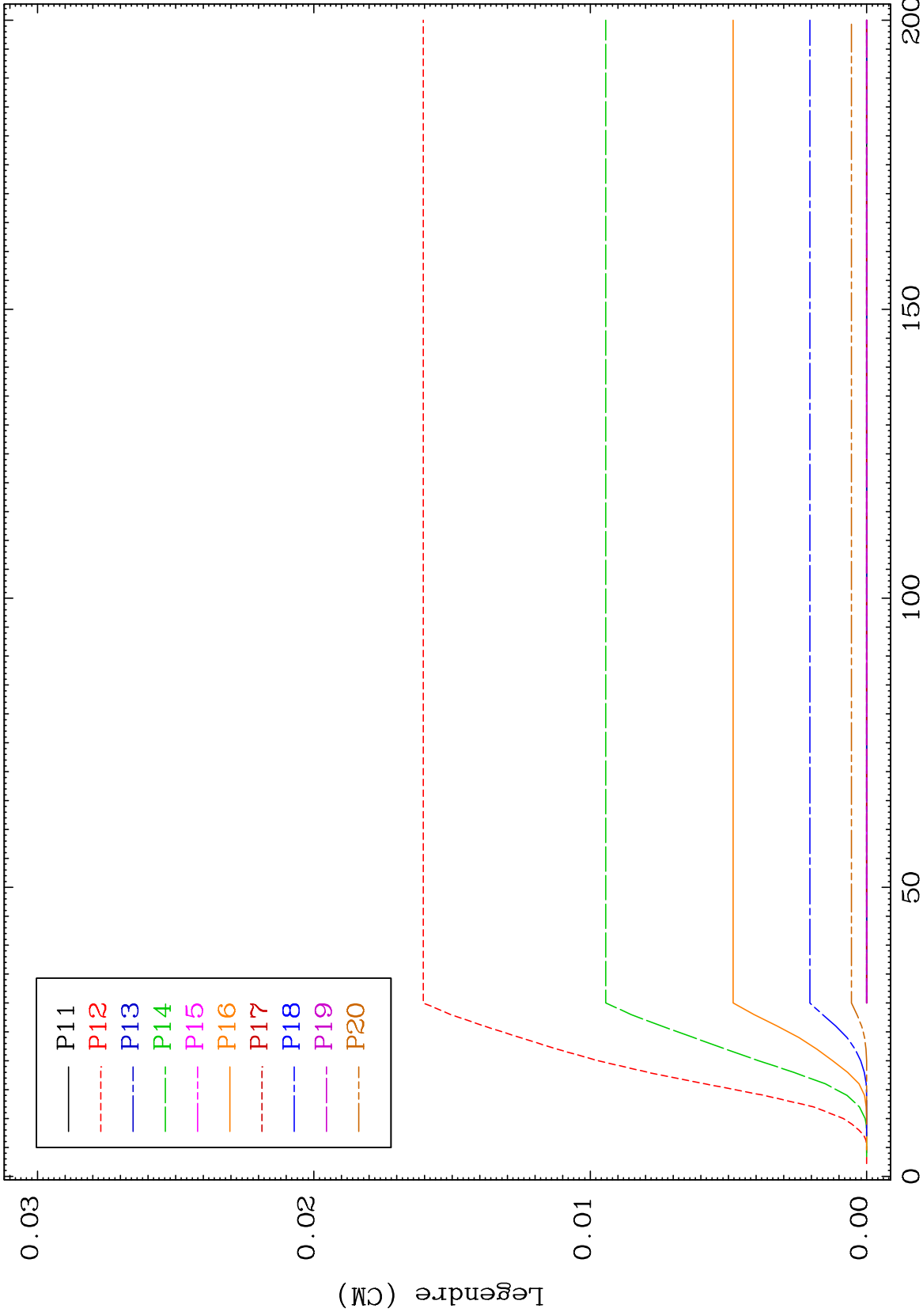


54 Incident Energy (MeV) 64-Gd-154

MAT 6431

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

64-Gd-154

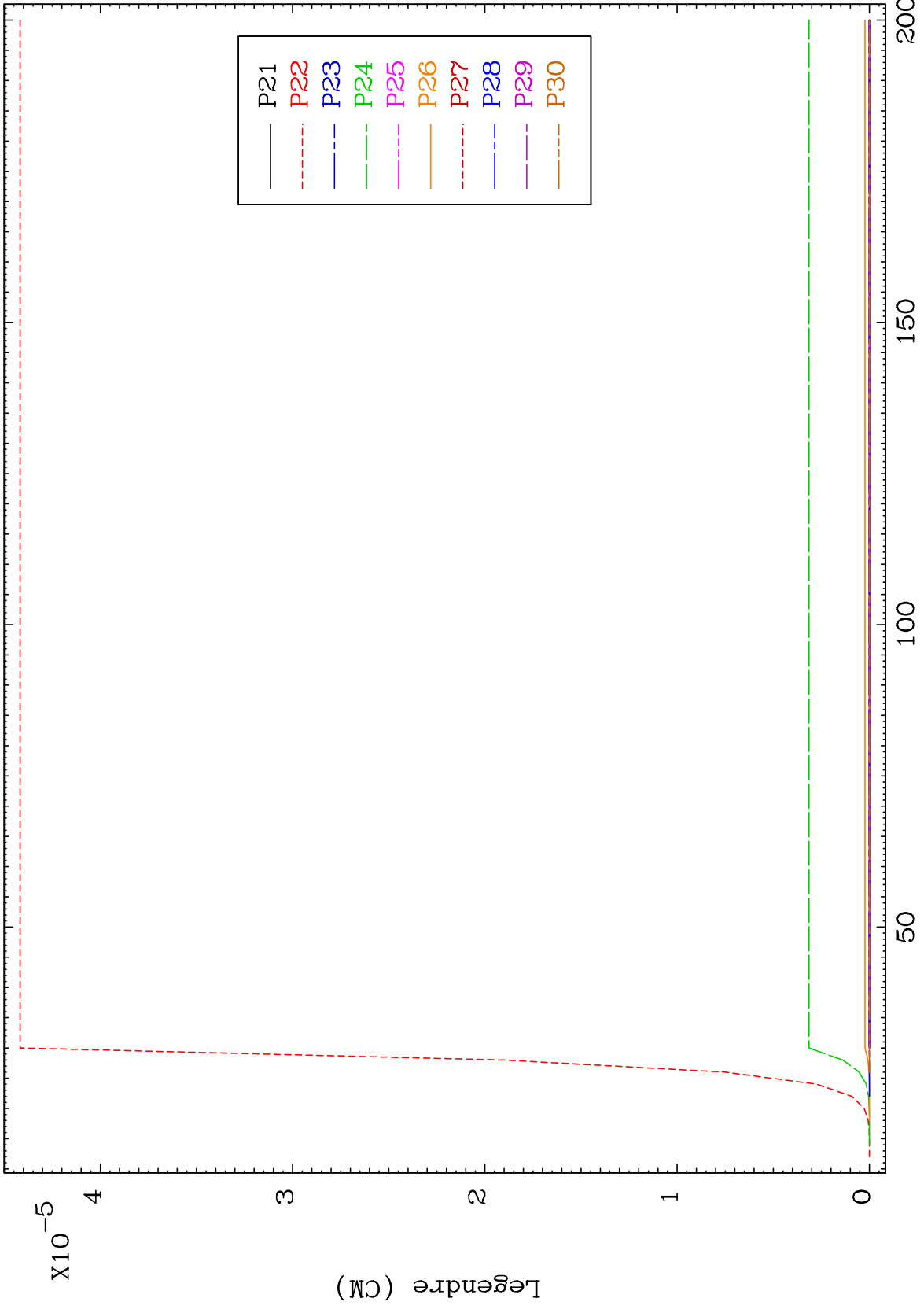


55

Incident Energy (MeV)

64-Gd-154

MAT 6431 MT= 60 (n,n') Level Legendre Coefficients 64-Gd-154

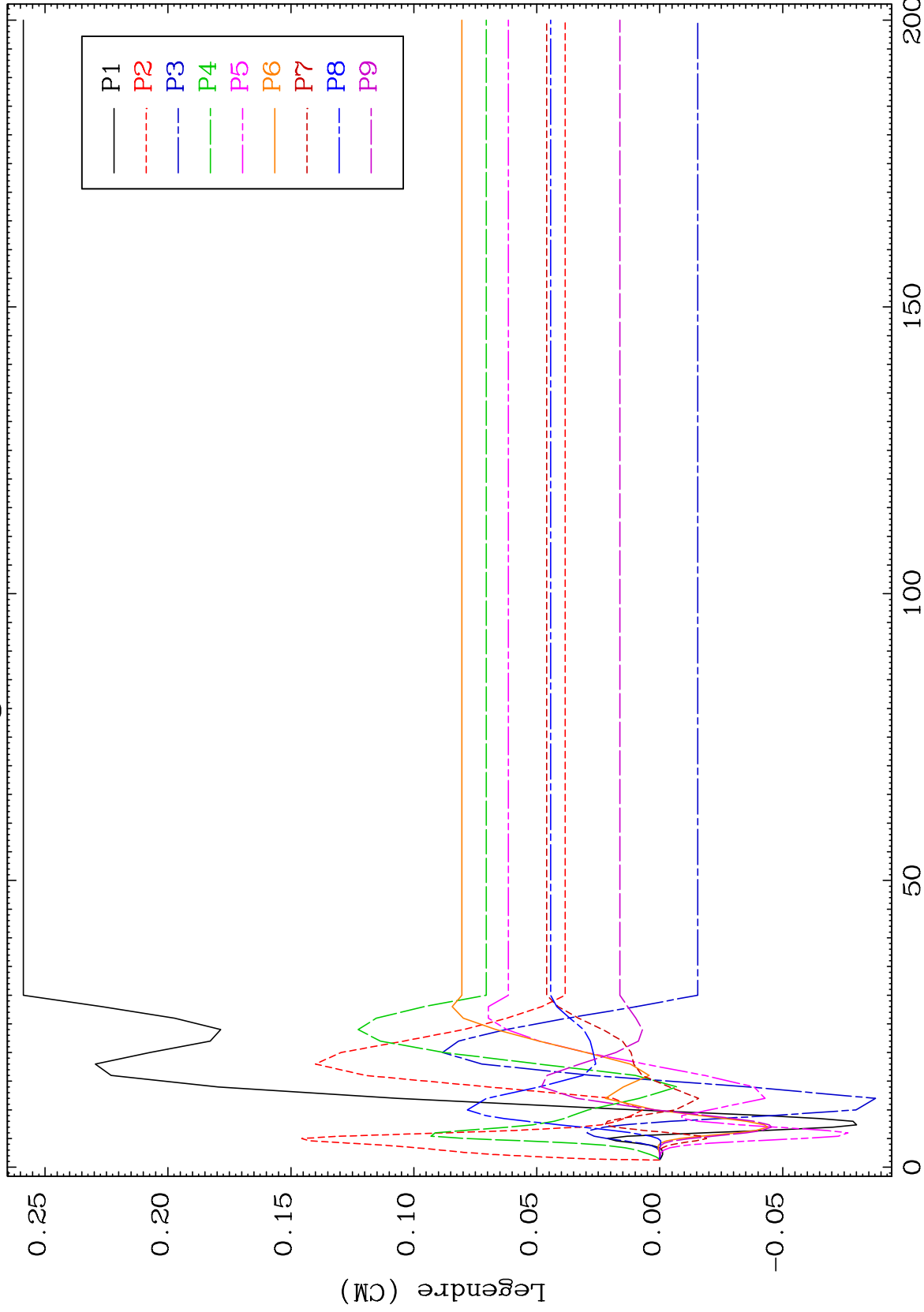


56 Incident Energy (MeV) 64-Gd-154

MAT 6431

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

64-Gd-154

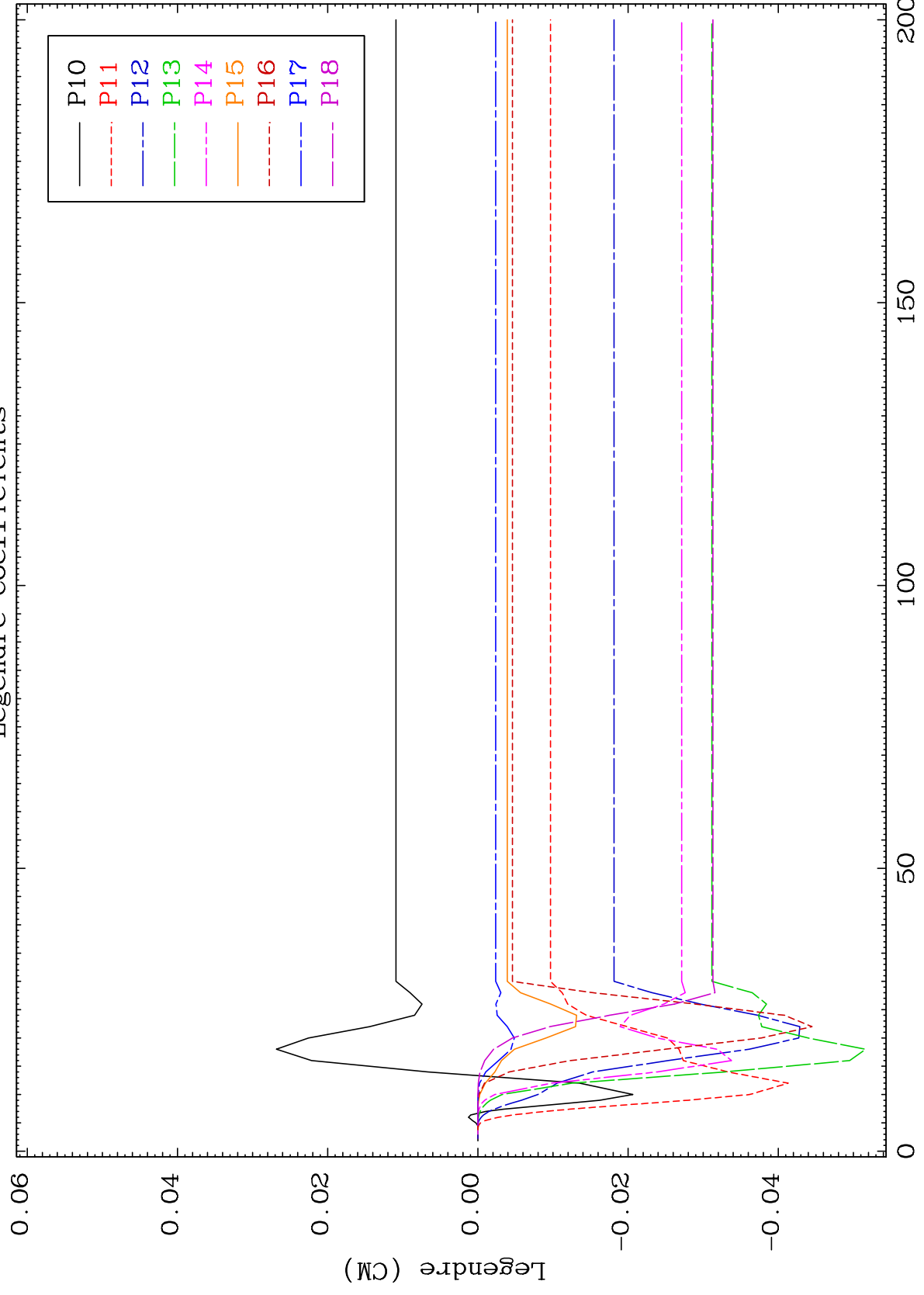


57

Incident Energy (MeV)

64-Gd-154

MAT 6431 MT= 61 (n,n') Level Legendre Coefficients 64-Gd-154

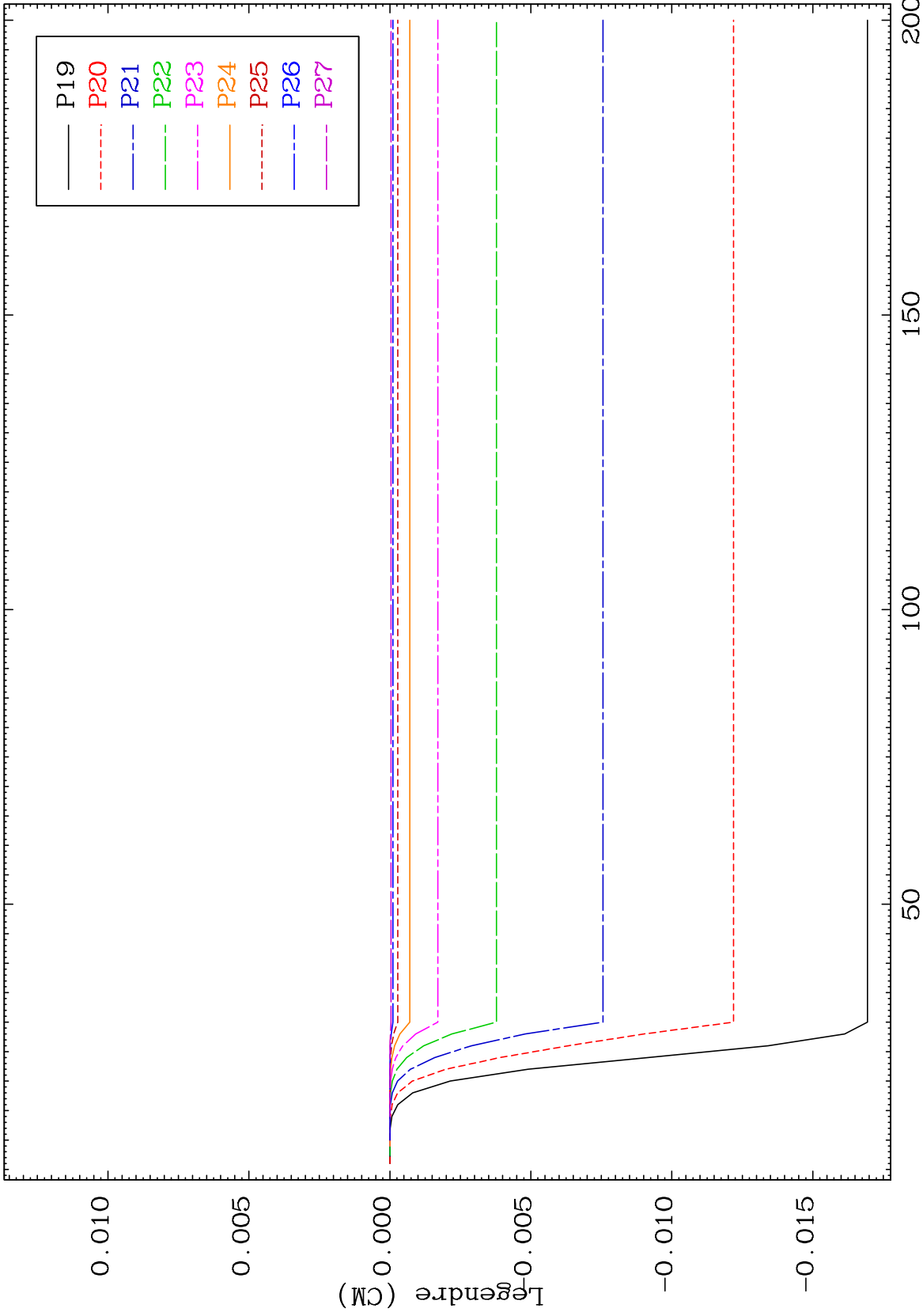


58 Incident Energy (MeV) 64-Gd-154

MAT 6431

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

64-Gd-154



59

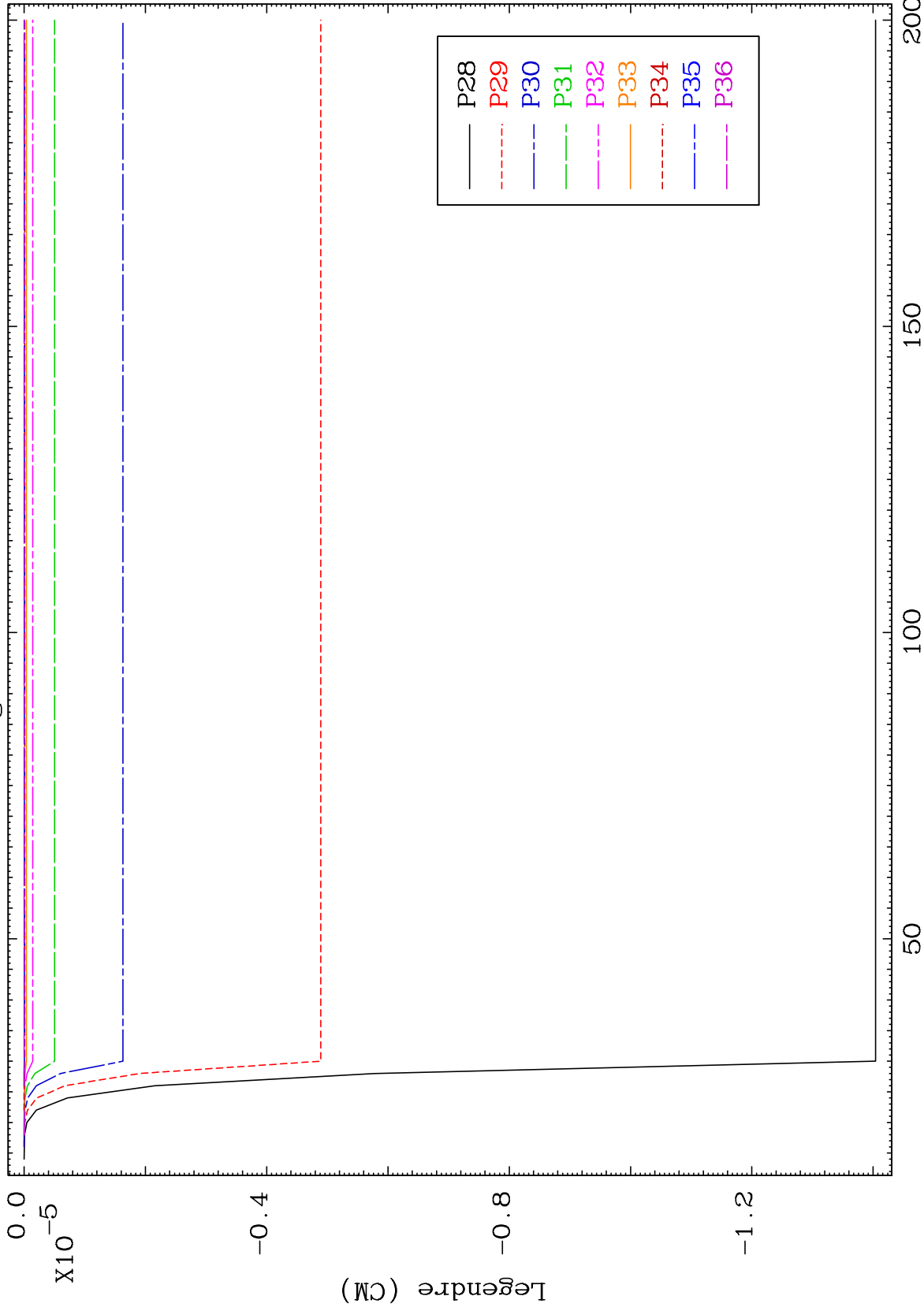
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154



64-Gd-154

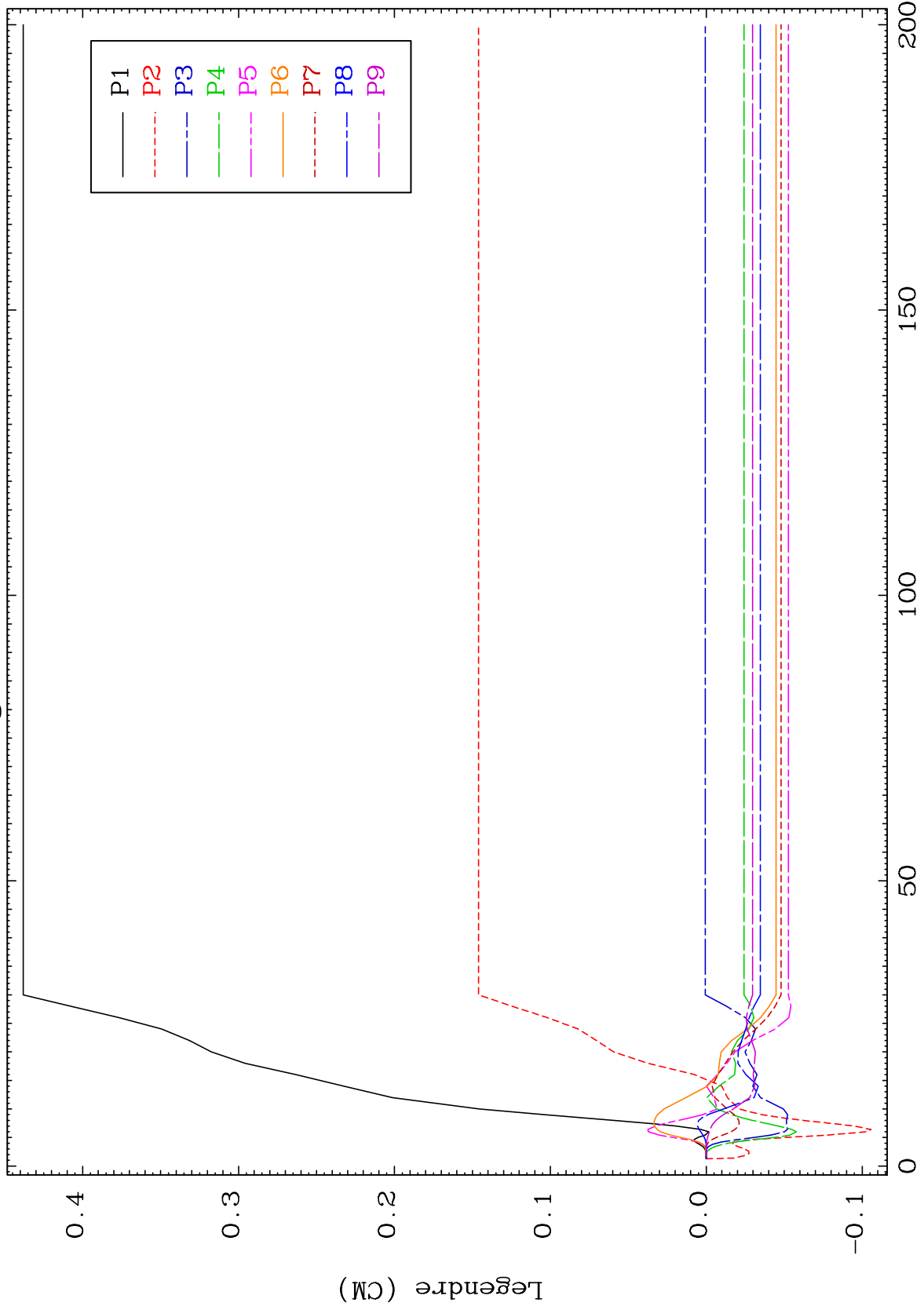
Incident Energy (MeV)

60

MAT 6431

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

64-Gd-154



61

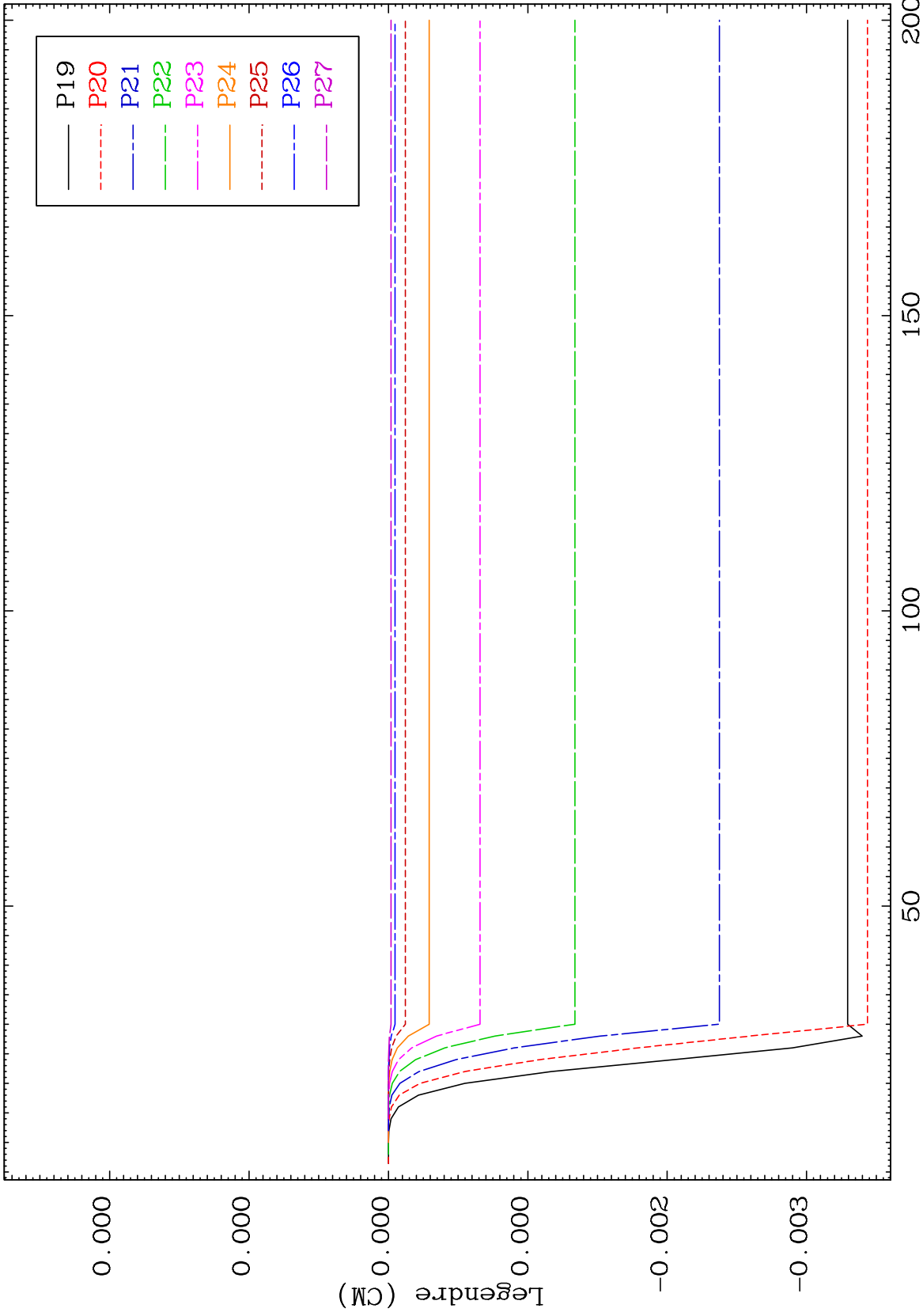
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154



63

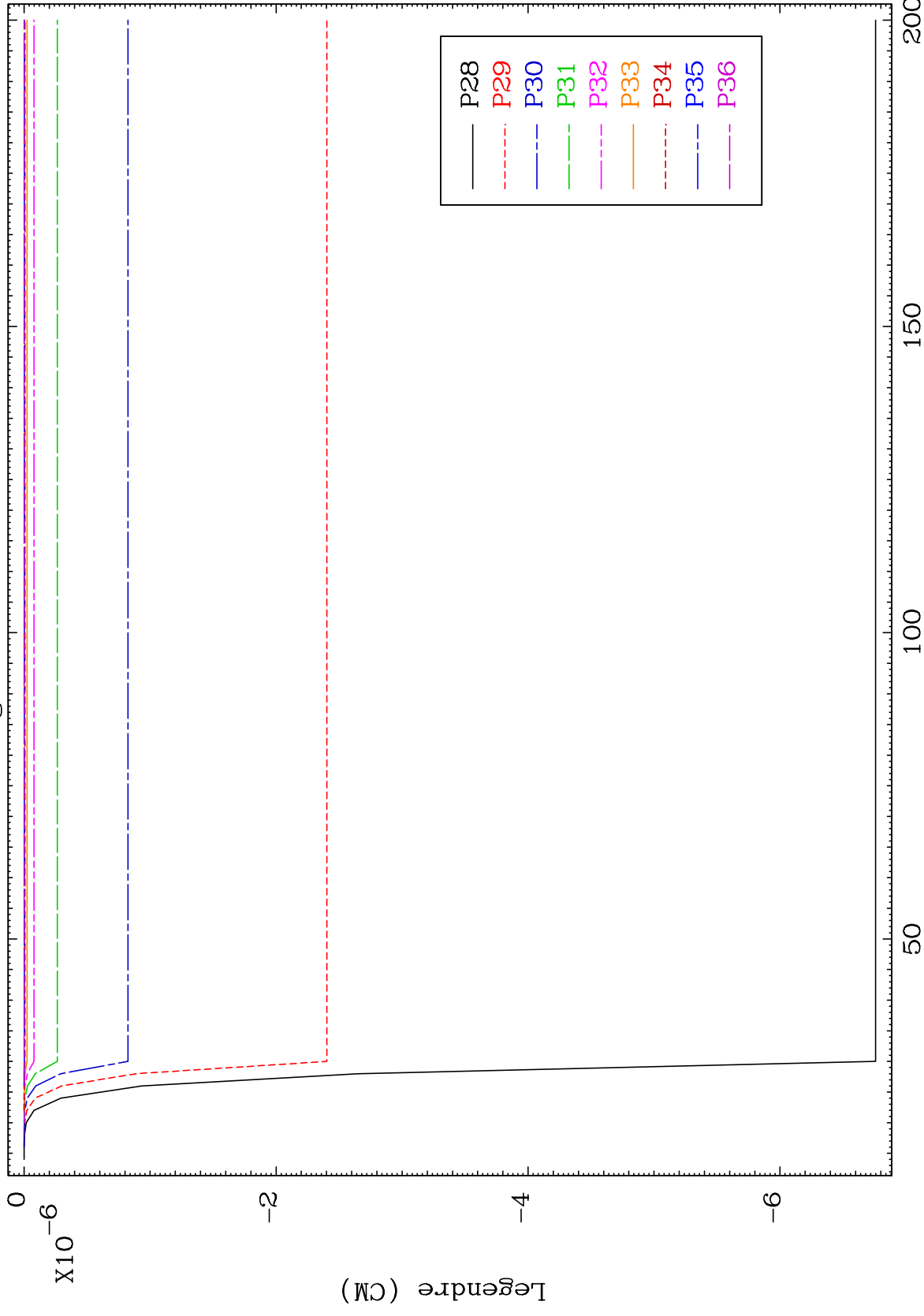
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154



64-Gd-154

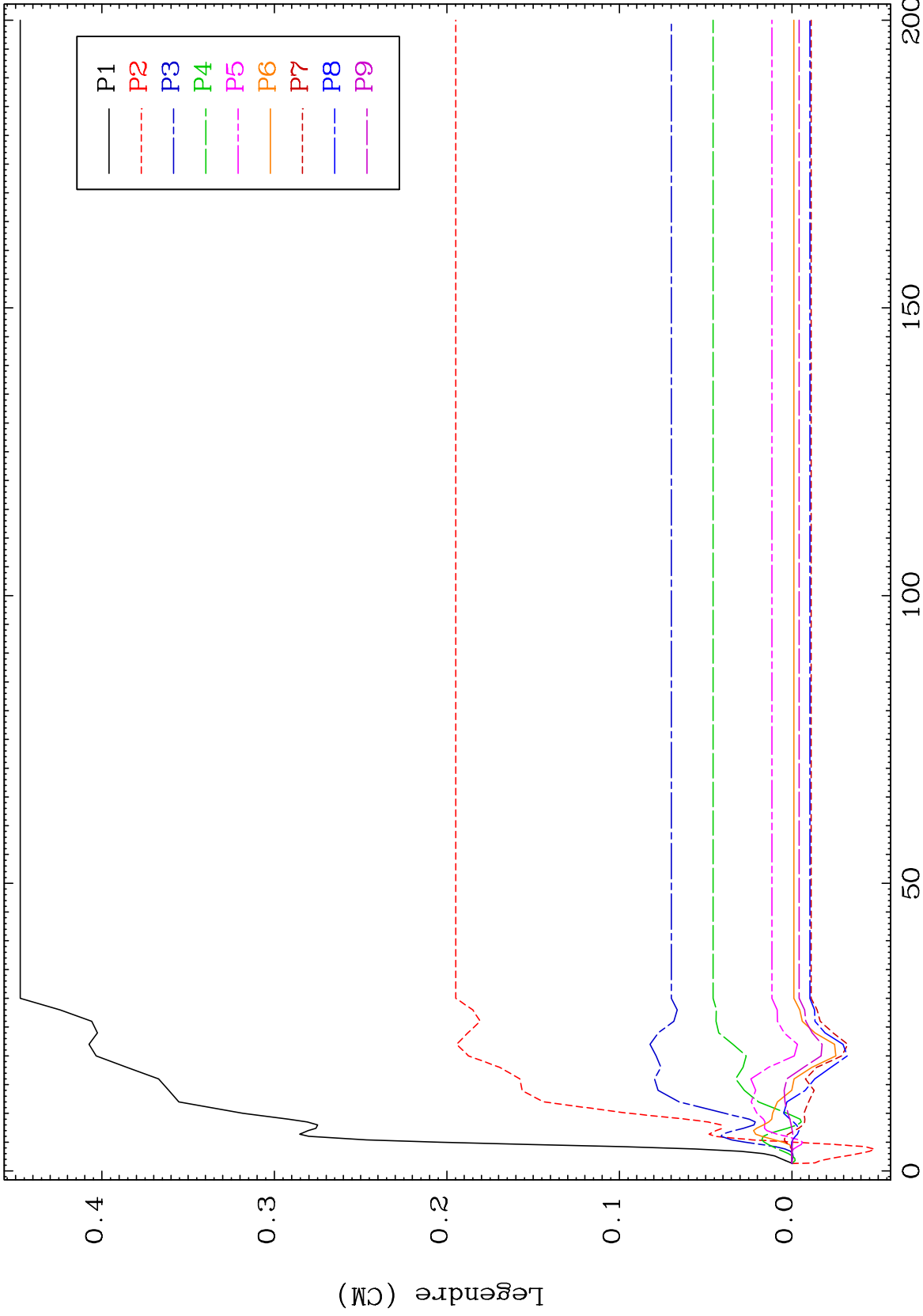
Incident Energy (MeV)

64

MAT 6431

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

64-Gd-154

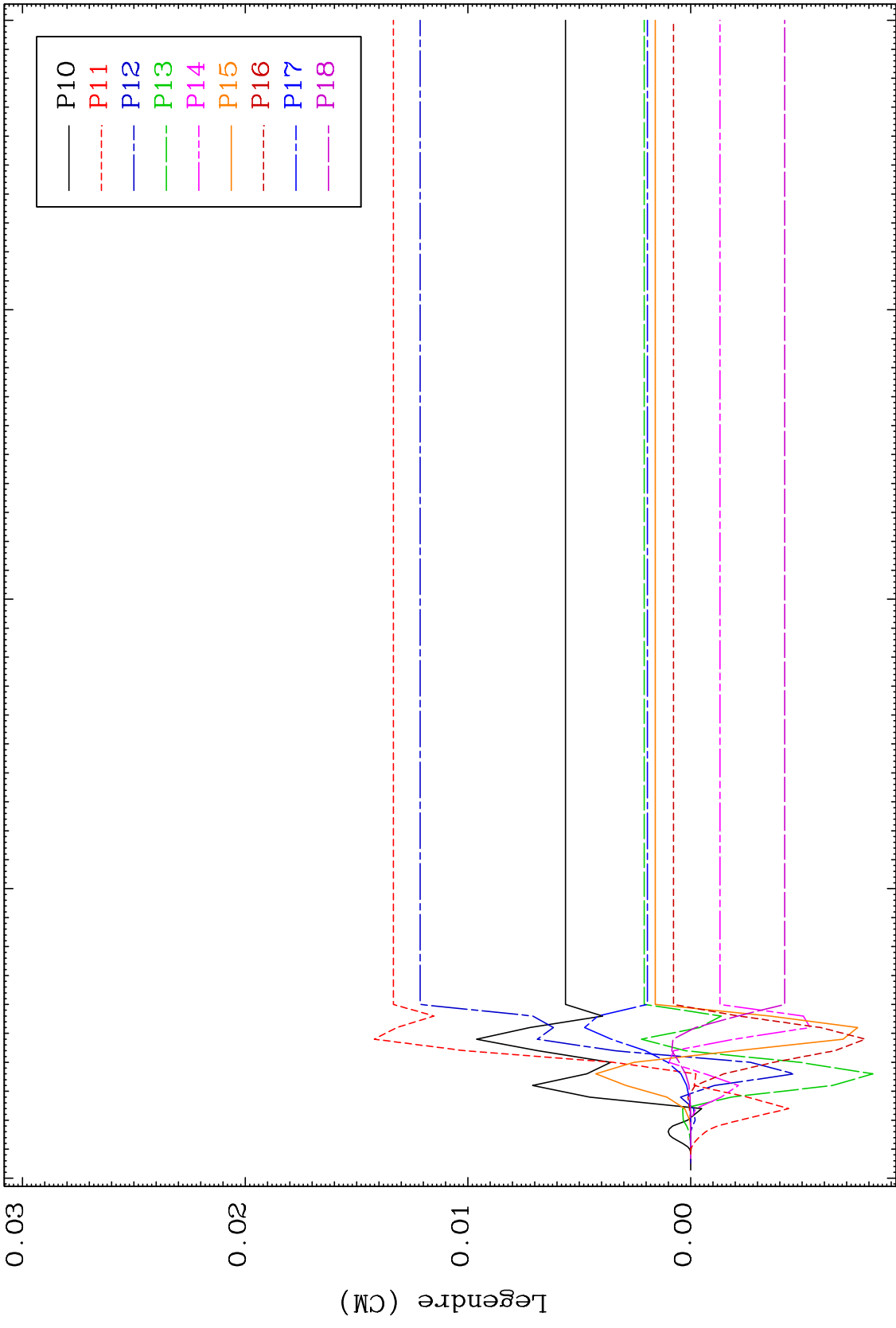


65

Incident Energy (MeV)

64-Gd-154

MAT 6431 MT= 63 (n,n') Level Legendre Coefficients 64-Gd-154

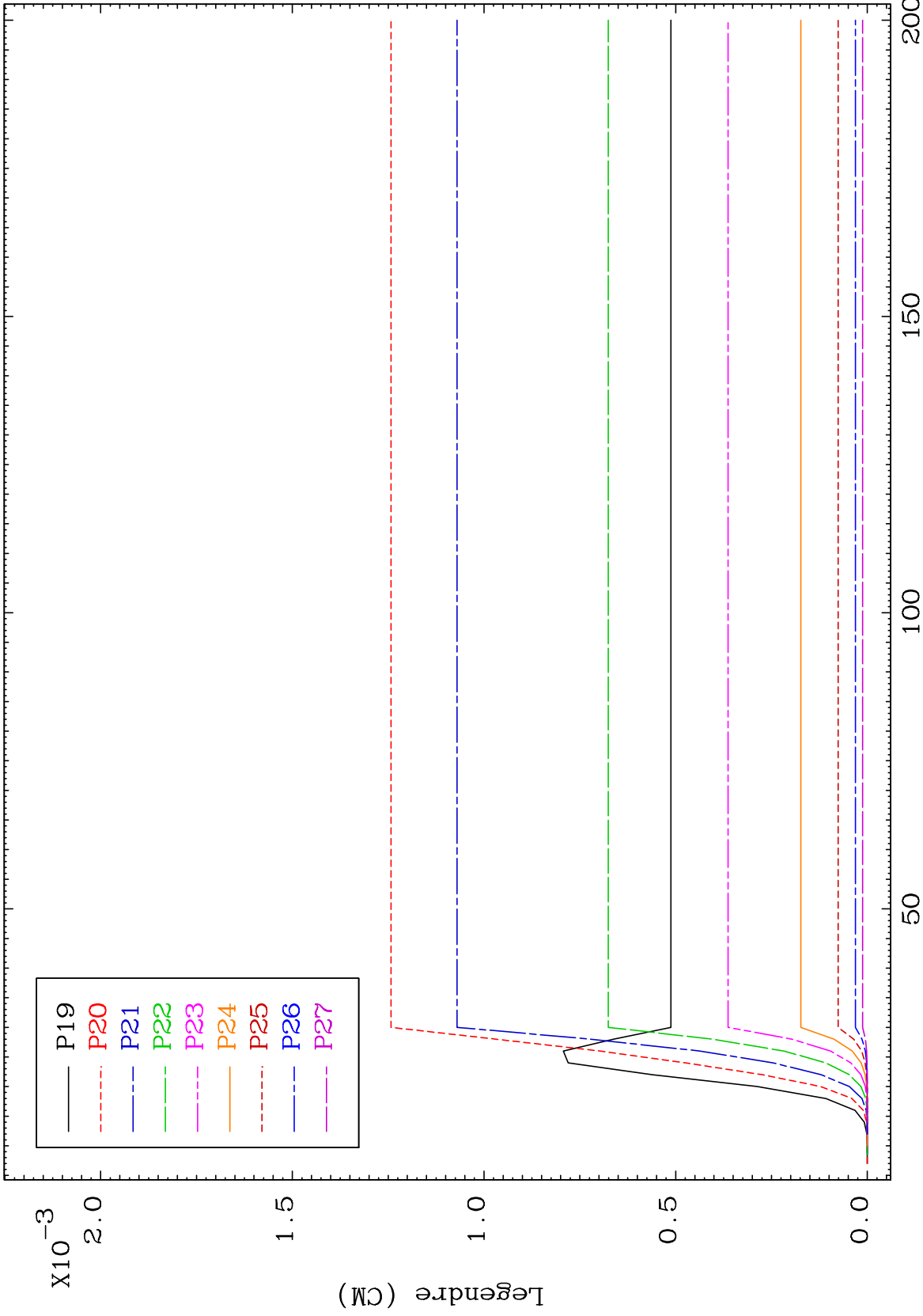


66 64-Gd-154

MAT 6431

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

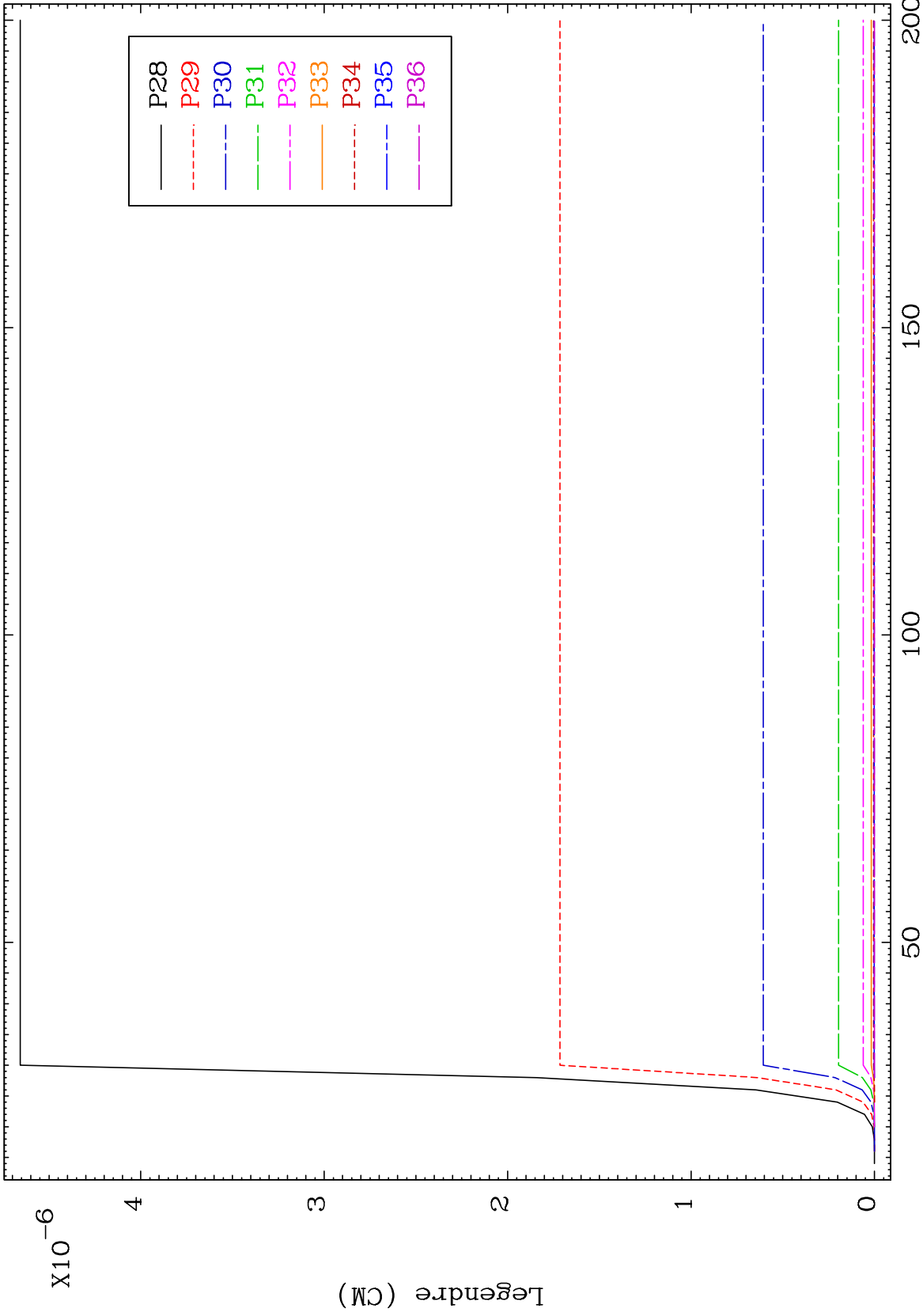
64-Gd-154



MAT 6431

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

64-Gd-154



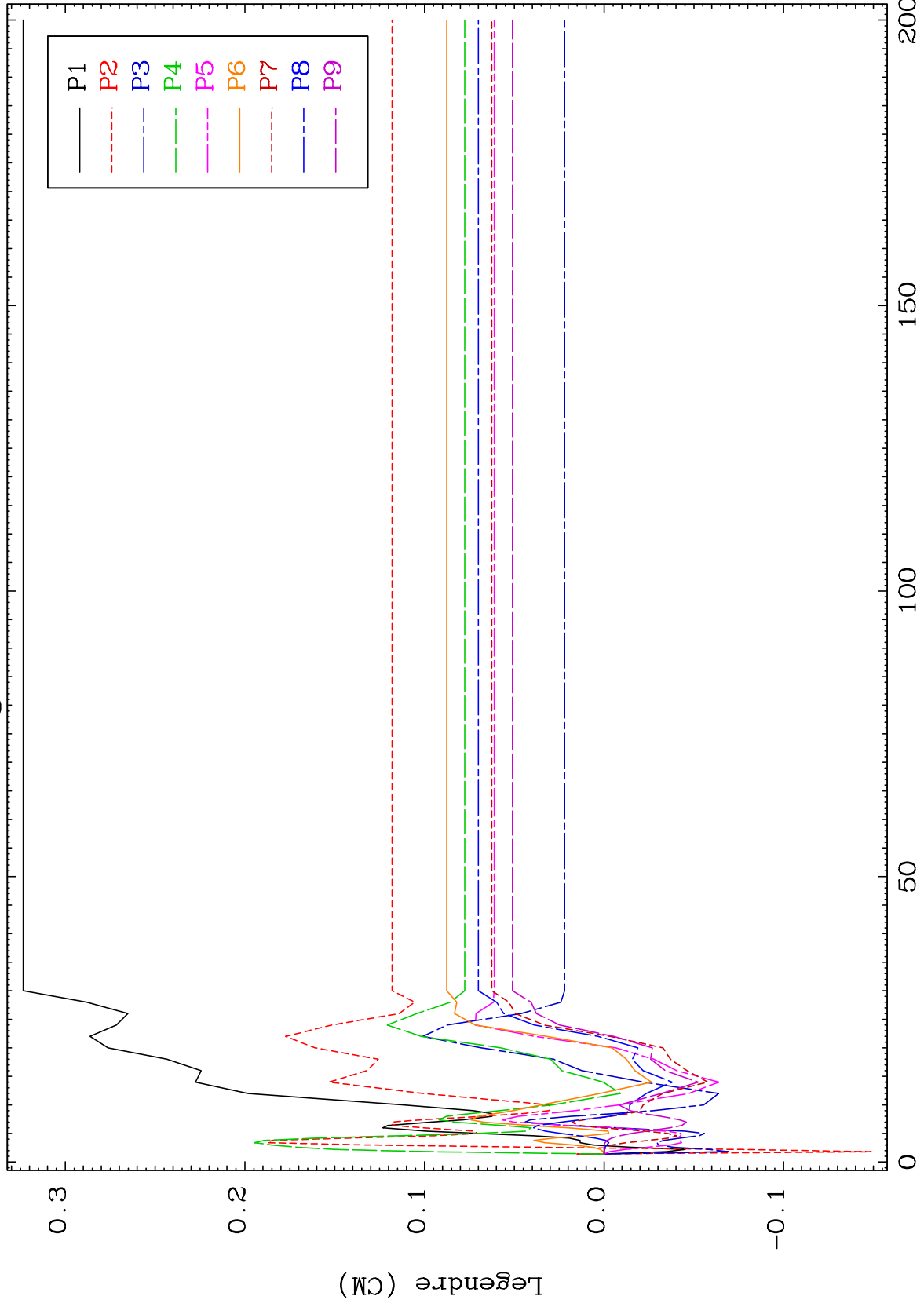
68

64-Gd-154

MAT 6431

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

64-Gd-154



69

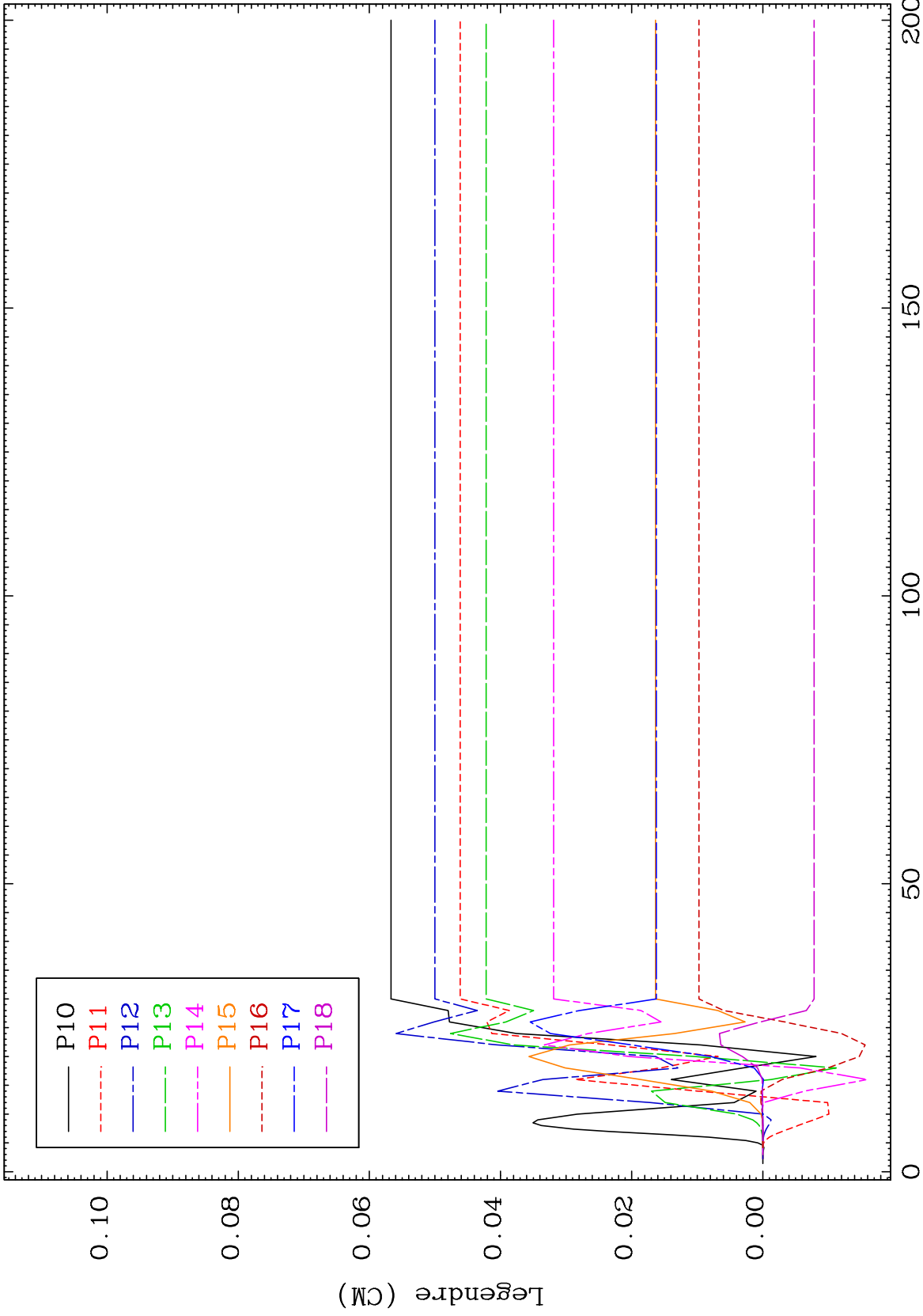
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154



70

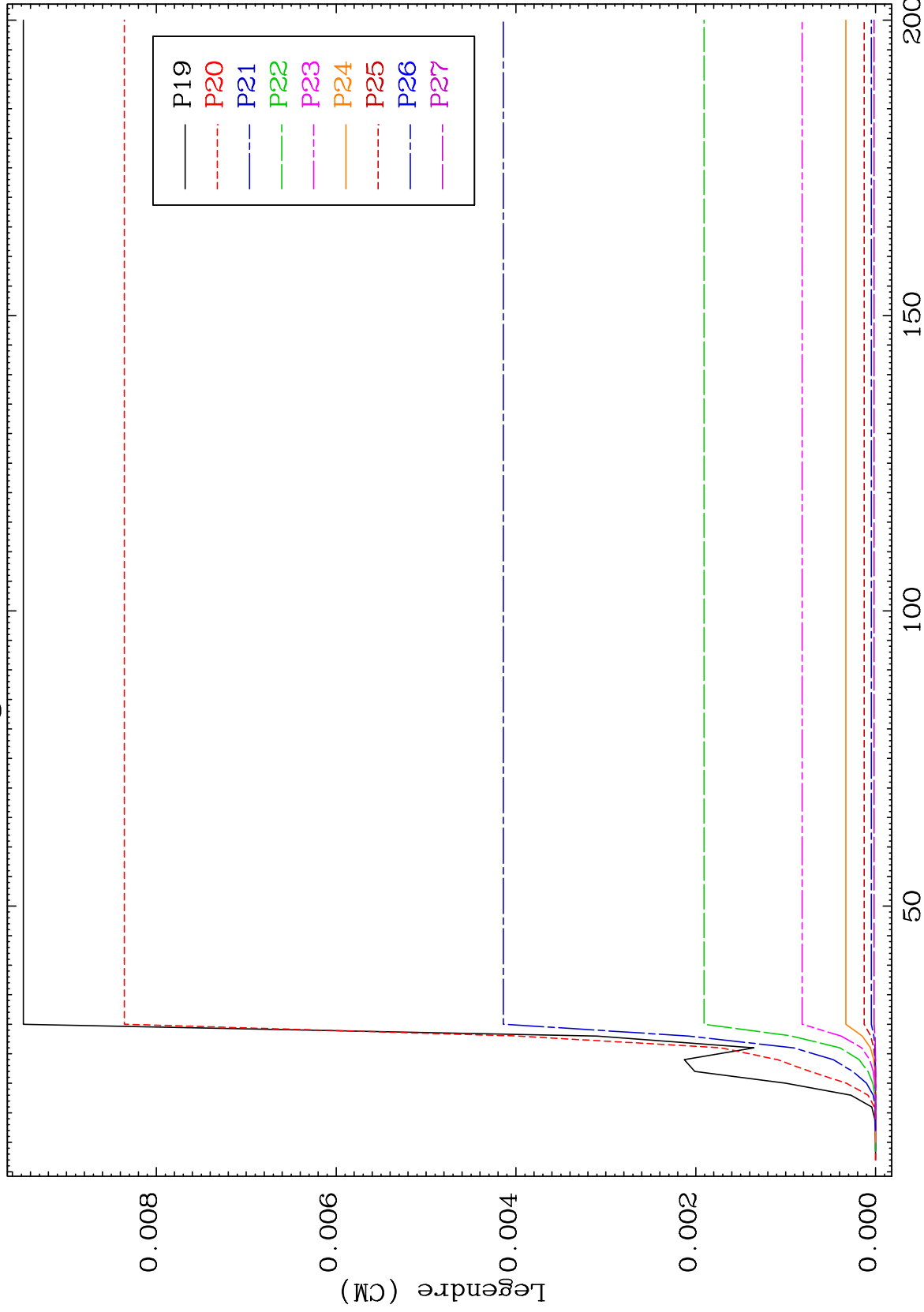
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154



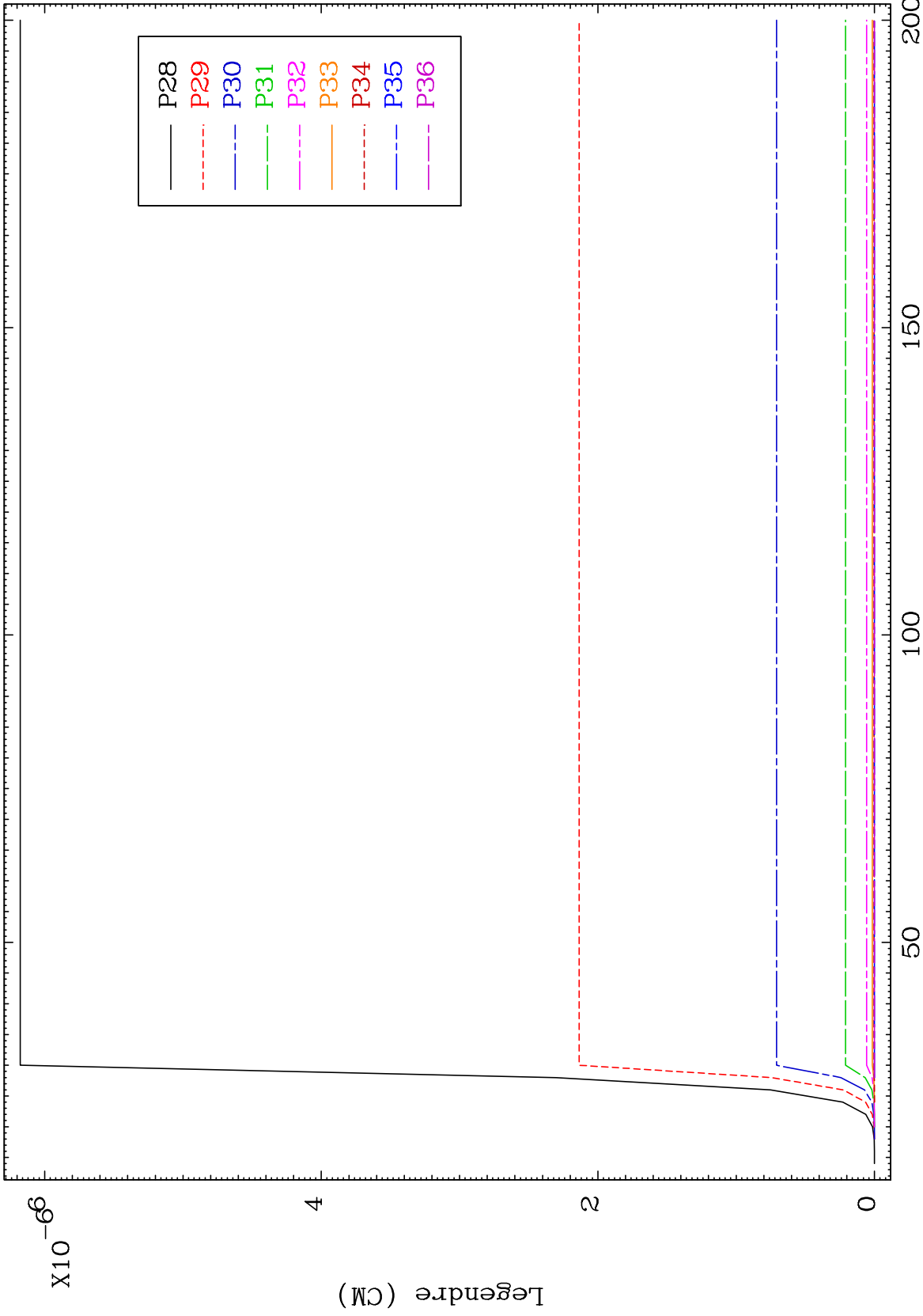
71

64-Gd-154

MAT 6431

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

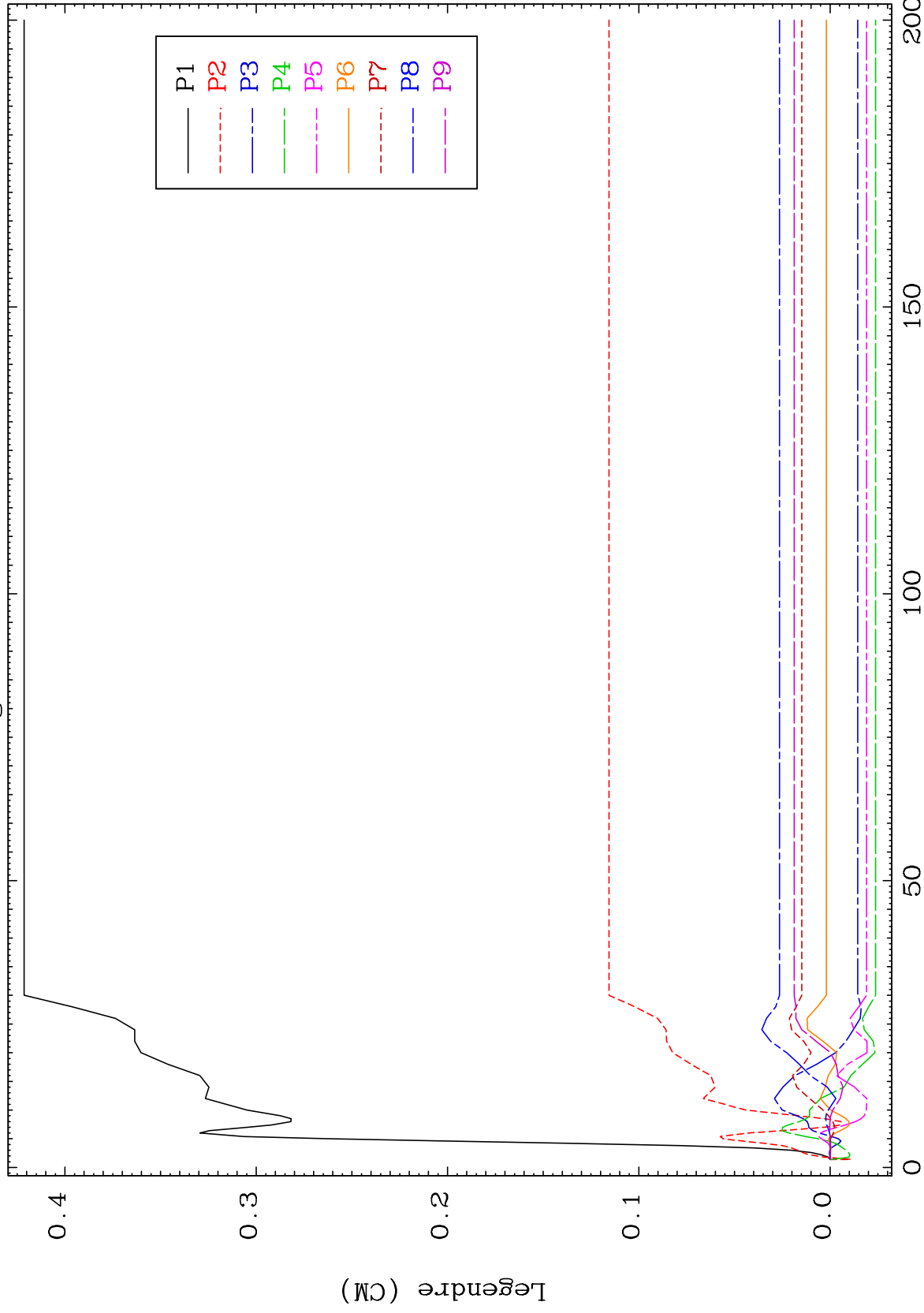
64-Gd-154



MAT 6431

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

64-Gd-154



73

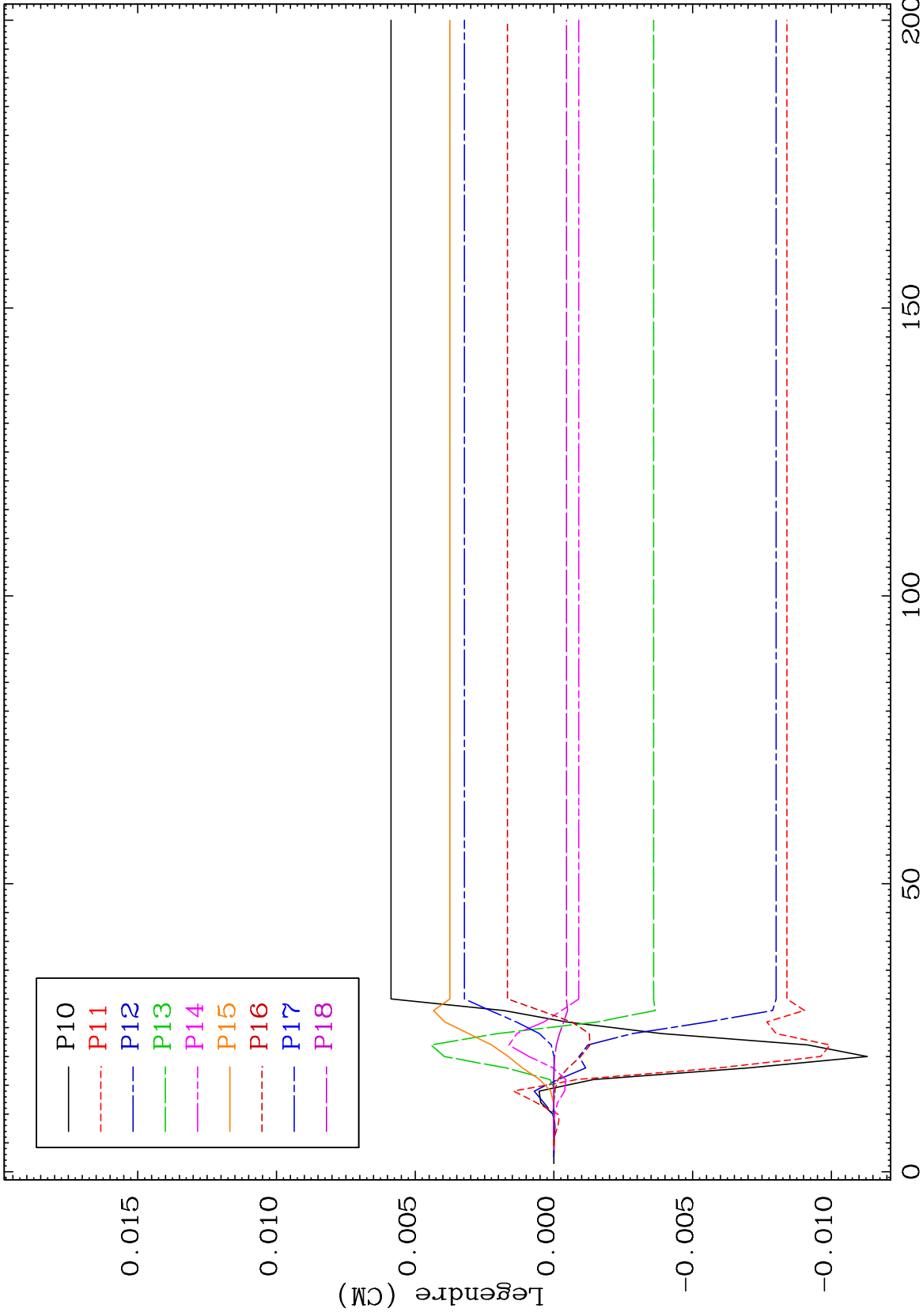
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154



74

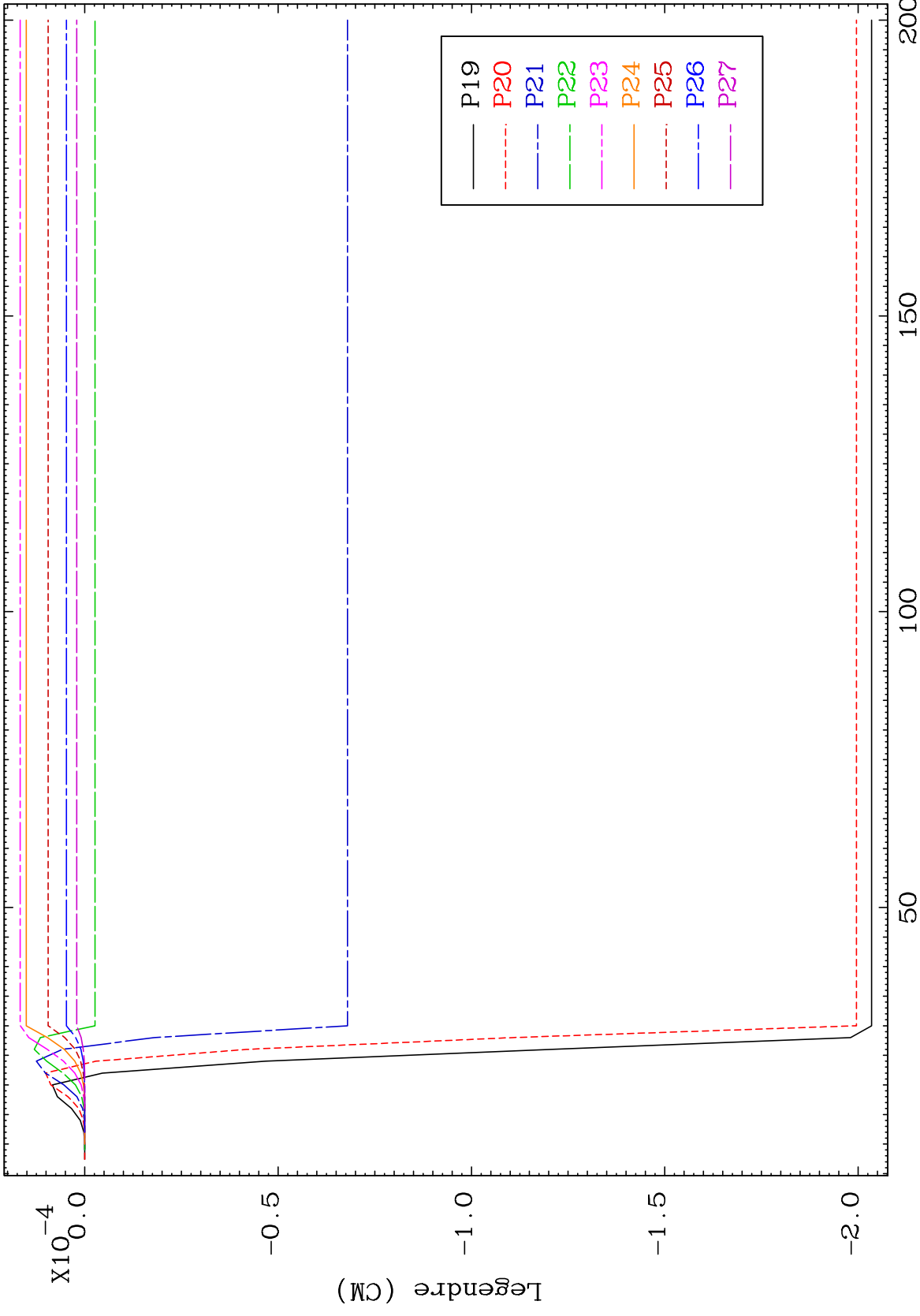
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154



64-Gd-154

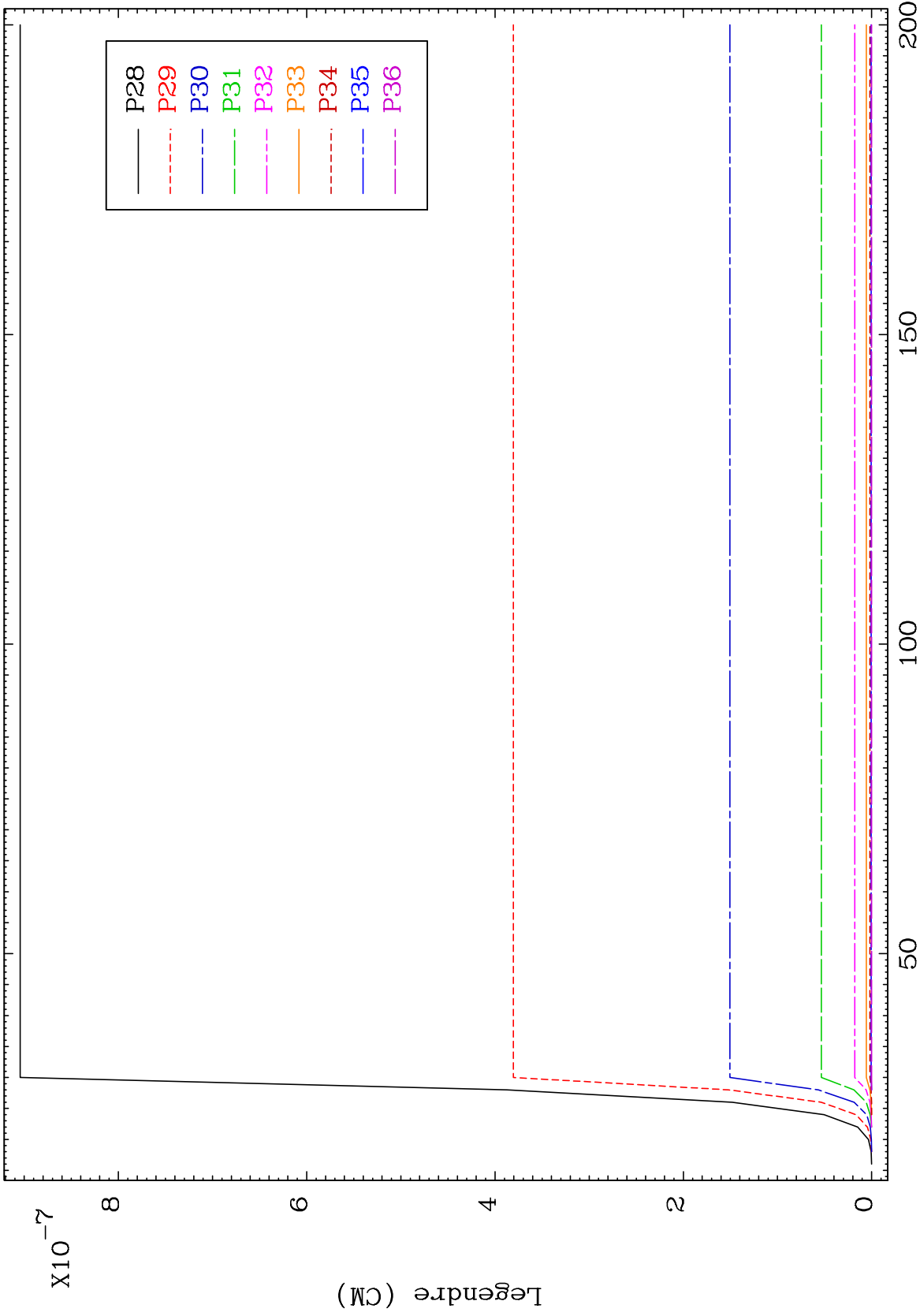
Incident Energy (MeV)

75

MAT 6431

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

64-Gd-154

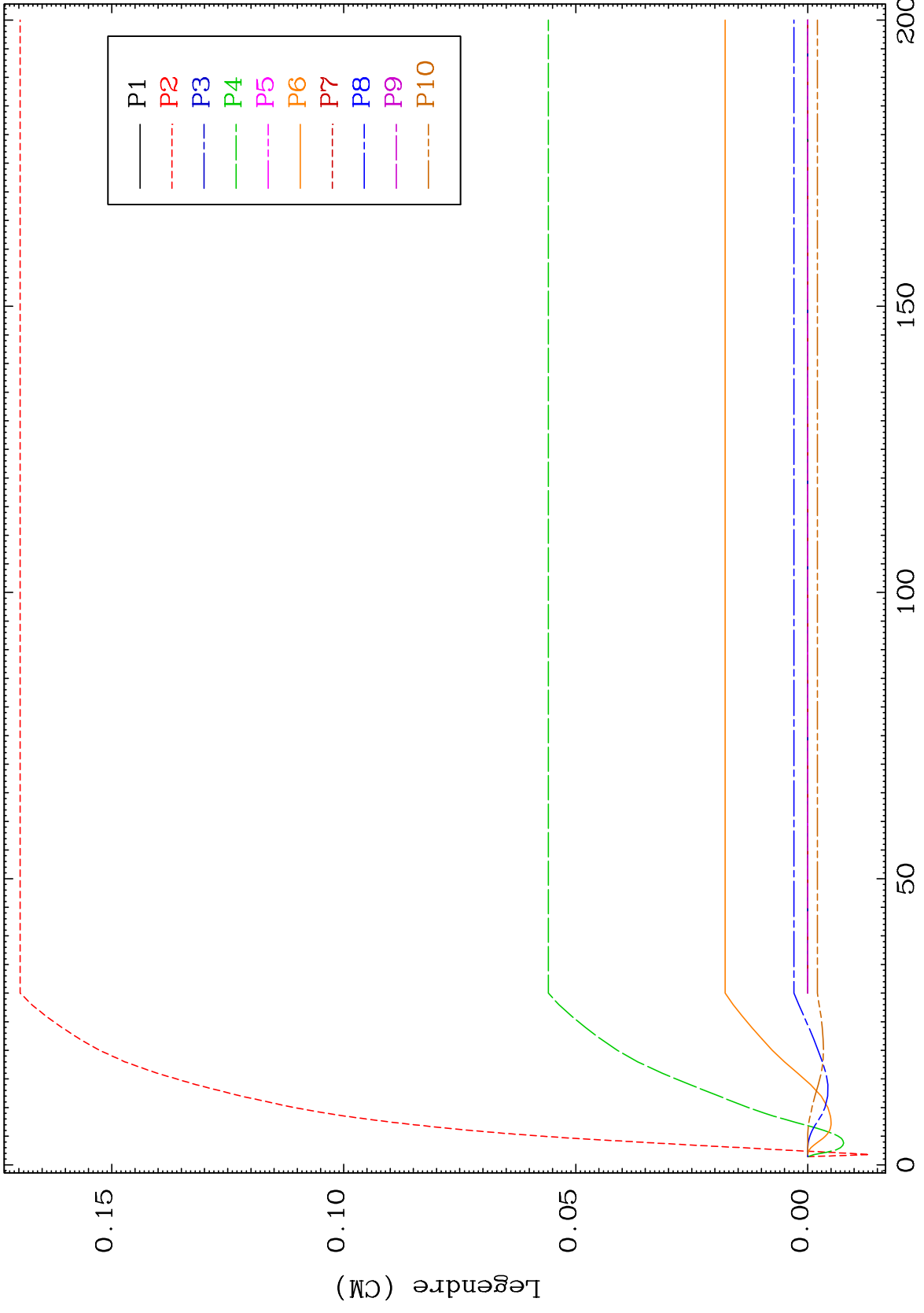


76

Incident Energy (MeV)

64-Gd-154

MAT 6431 MT= 66 (n,n') Level Legendre Coefficients 64-Gd-154

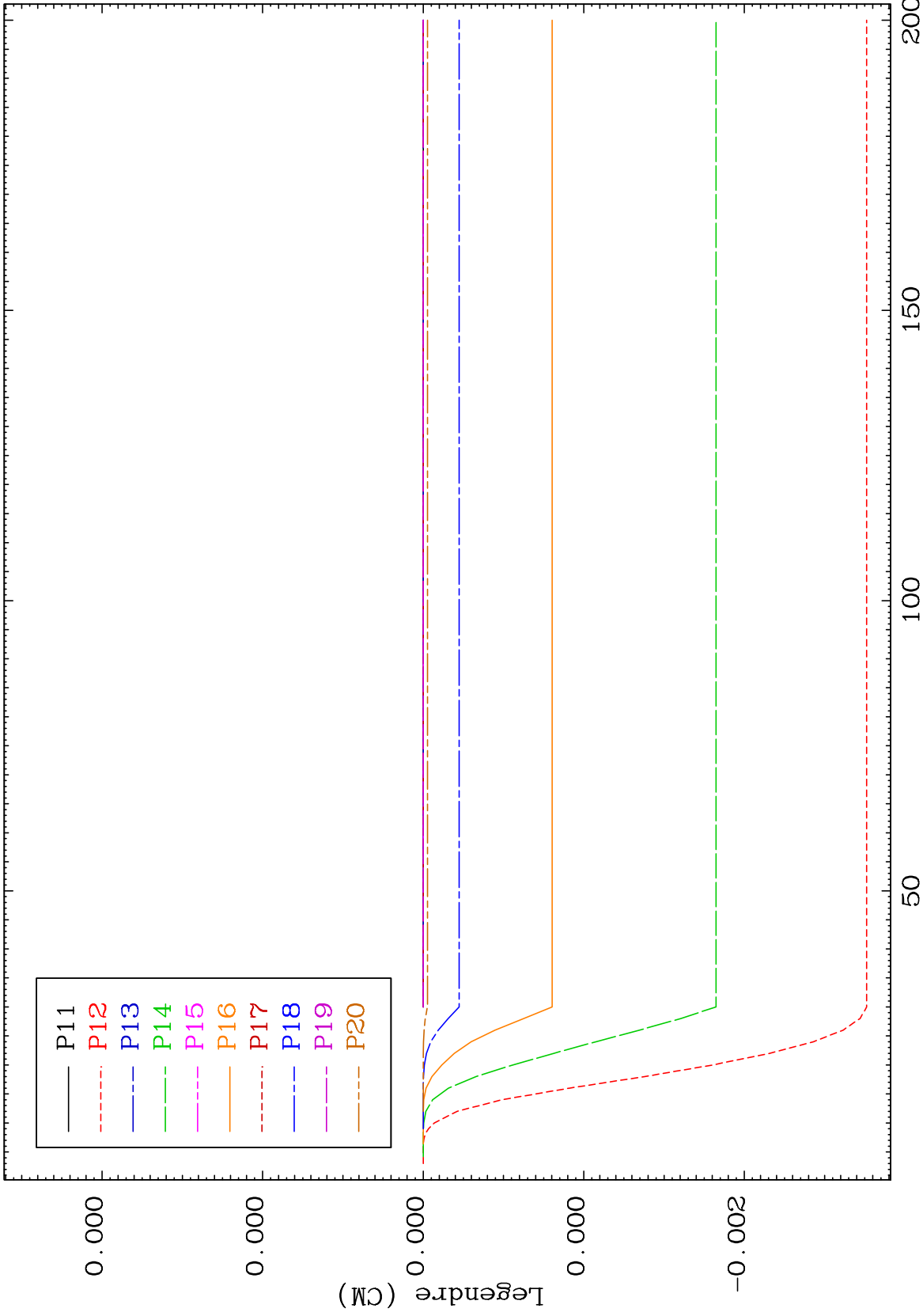


77 64-Gd-154

MAT 6431

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

64-Gd-154

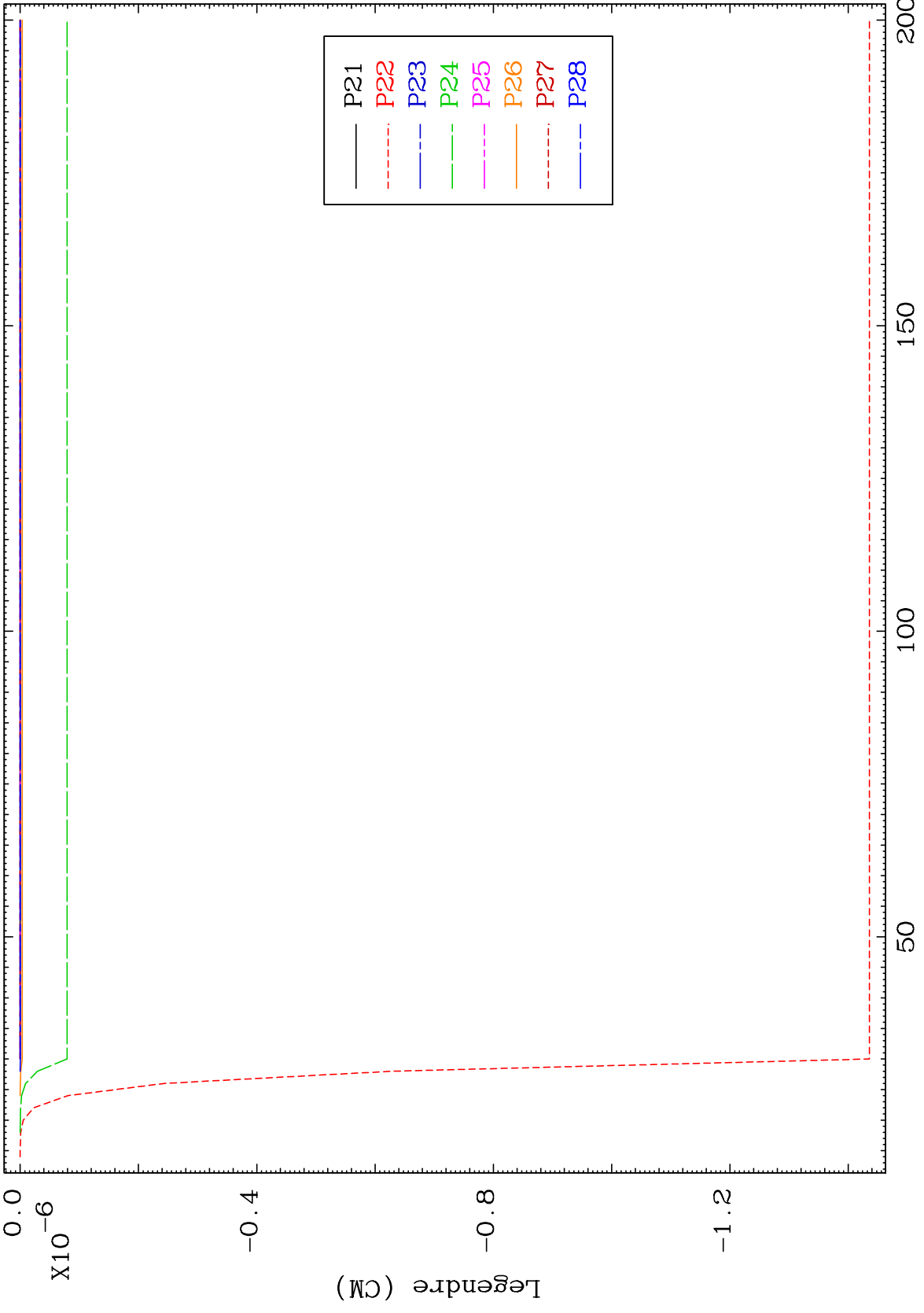


78

Incident Energy (MeV)

64-Gd-154

MAT 6431 MT= 66 (n,n') Level Legendre Coefficients 64-Gd-154

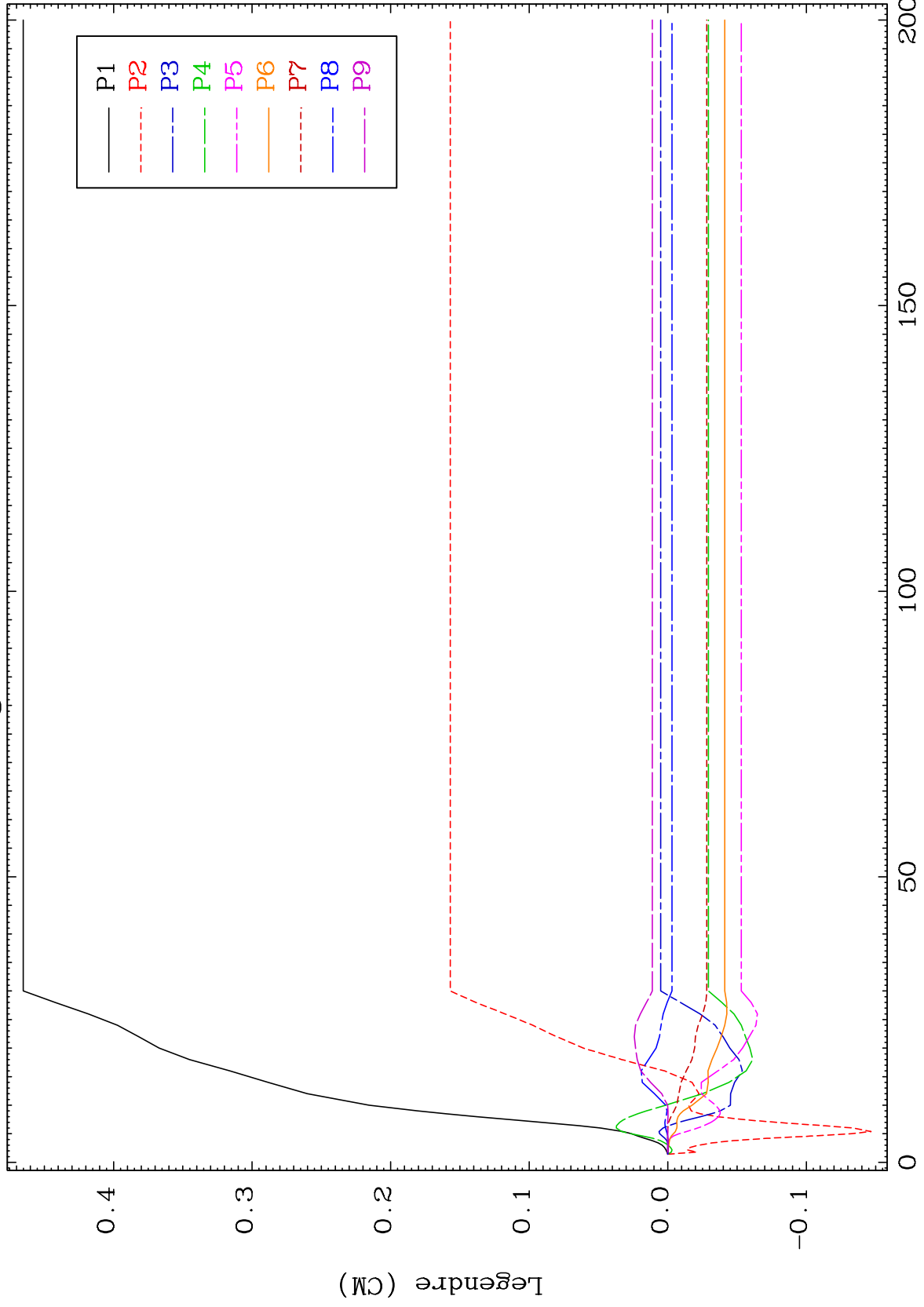


79 64-Gd-154

MAT 6431

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

64-Gd-154



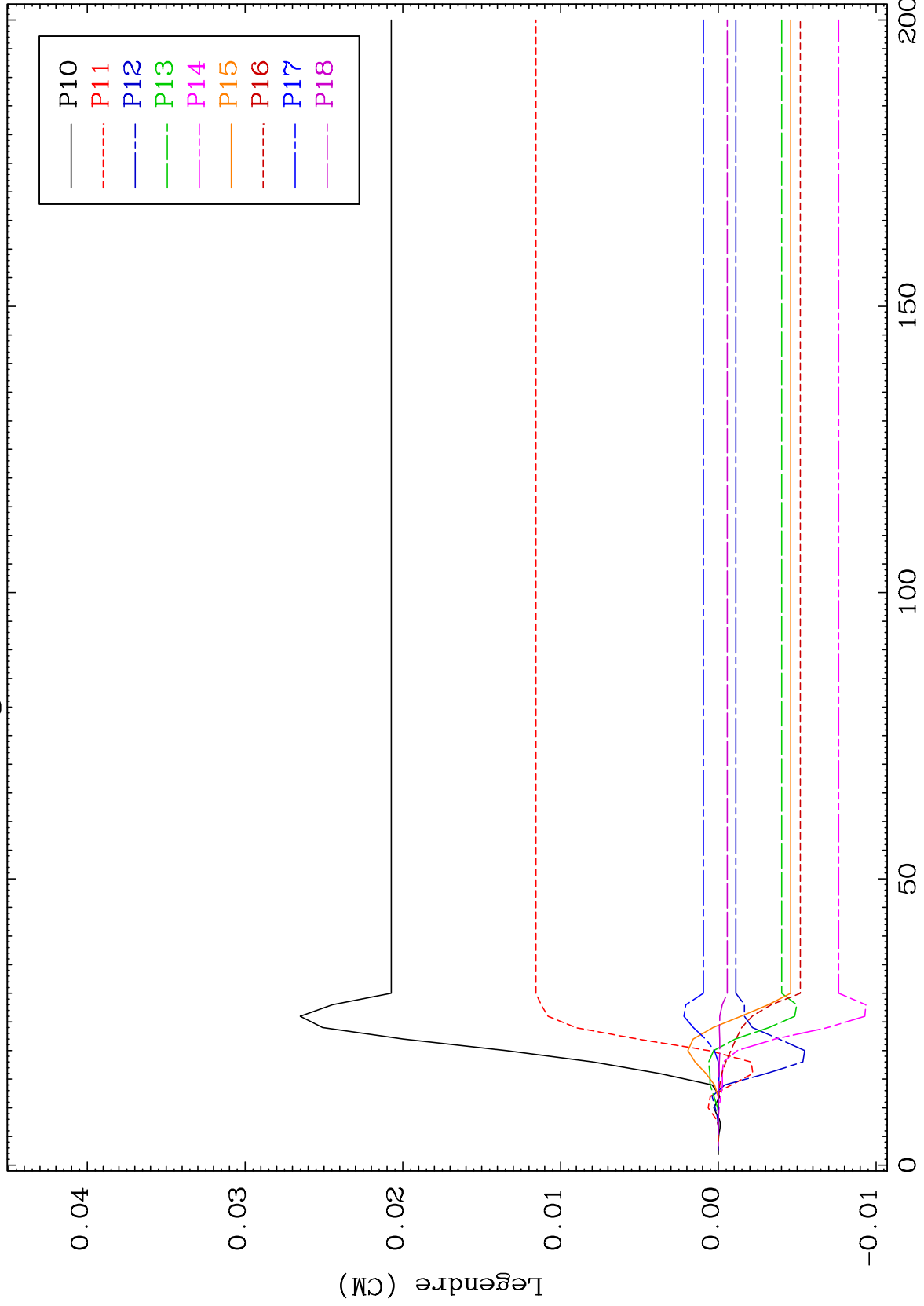
64-Gd-154

Incident Energy (MeV)

MAT 6431

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

64-Gd-154



81

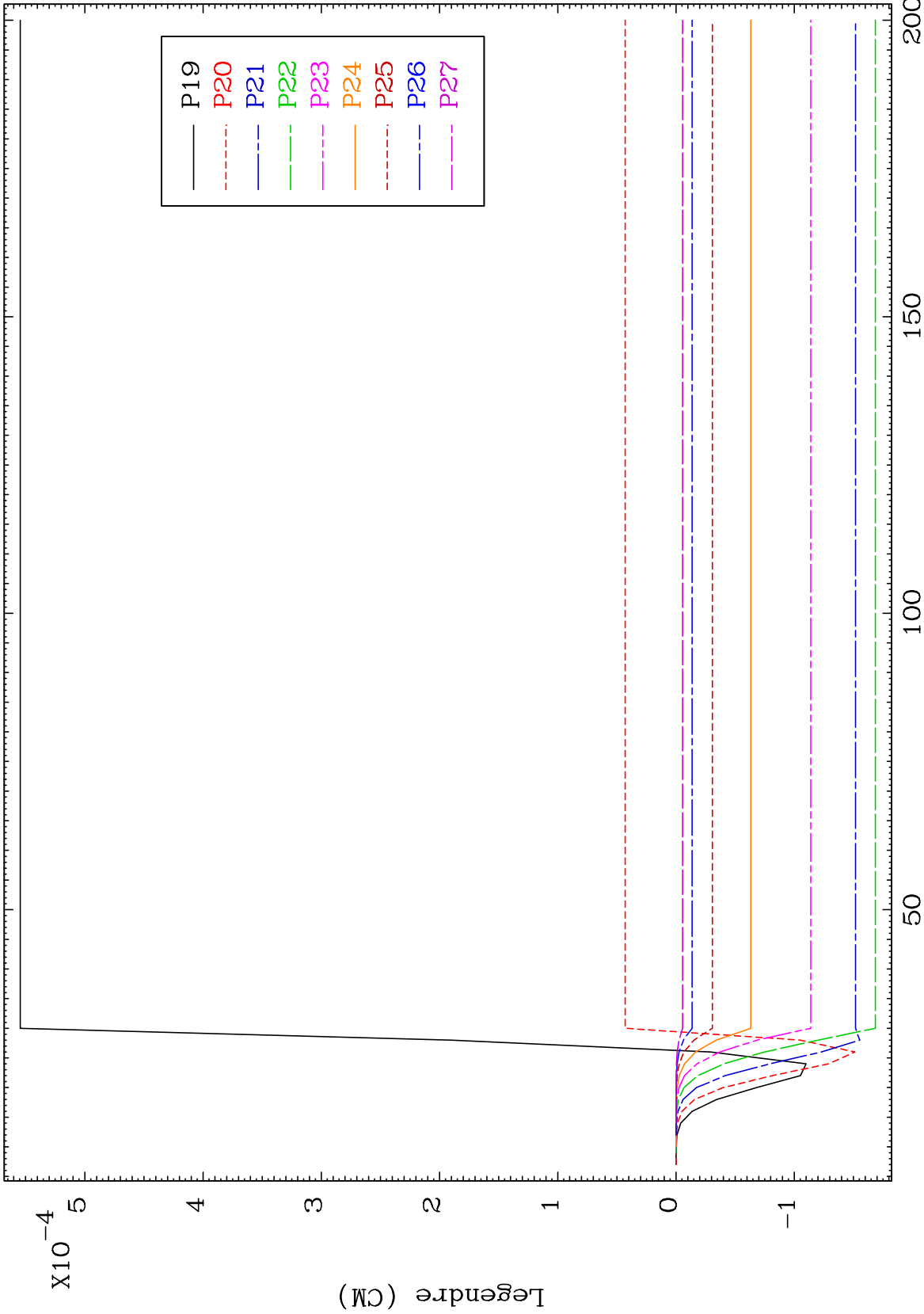
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154



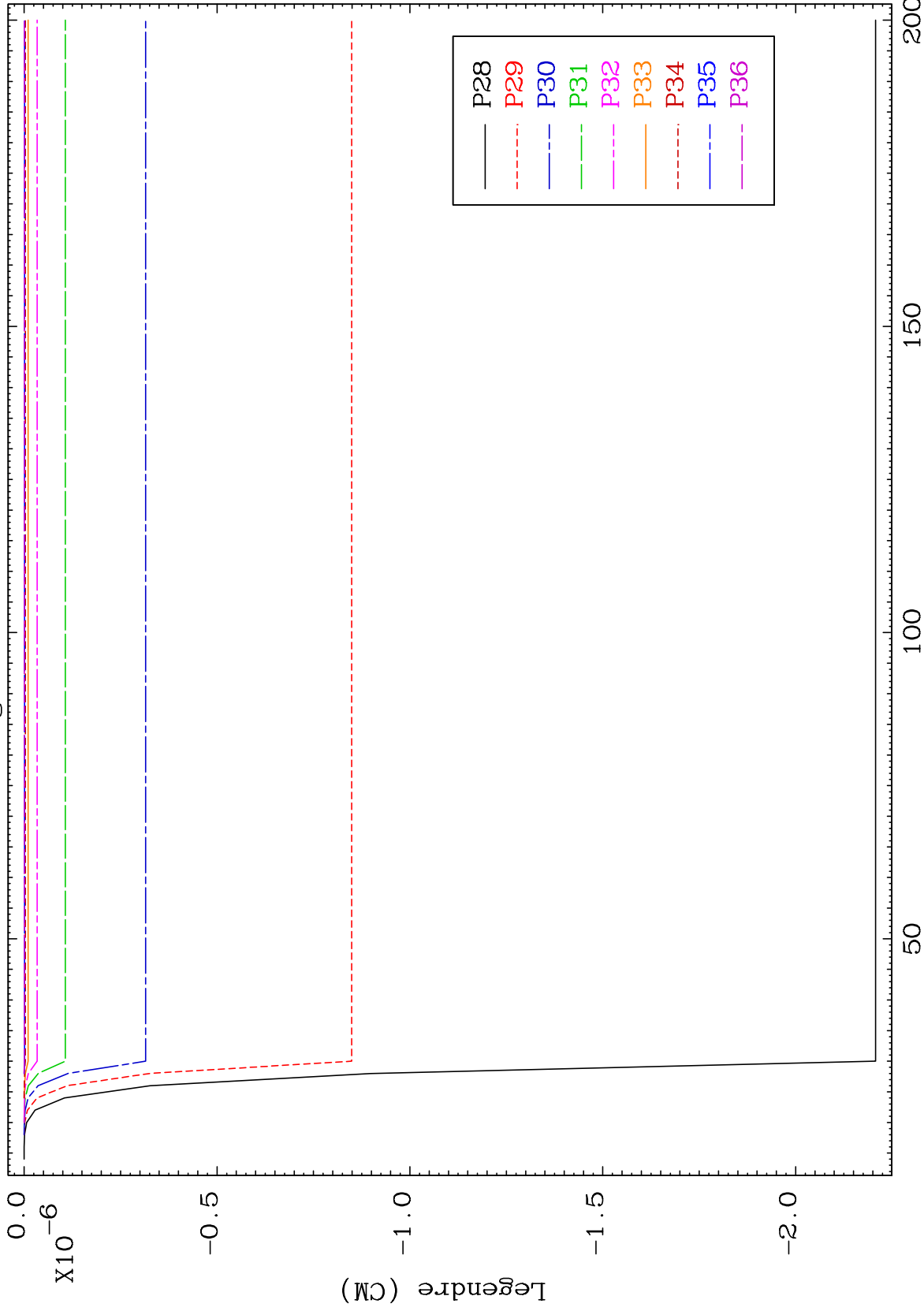
82

64-Gd-154

MAT 6431

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

64-Gd-154



64-Gd-154

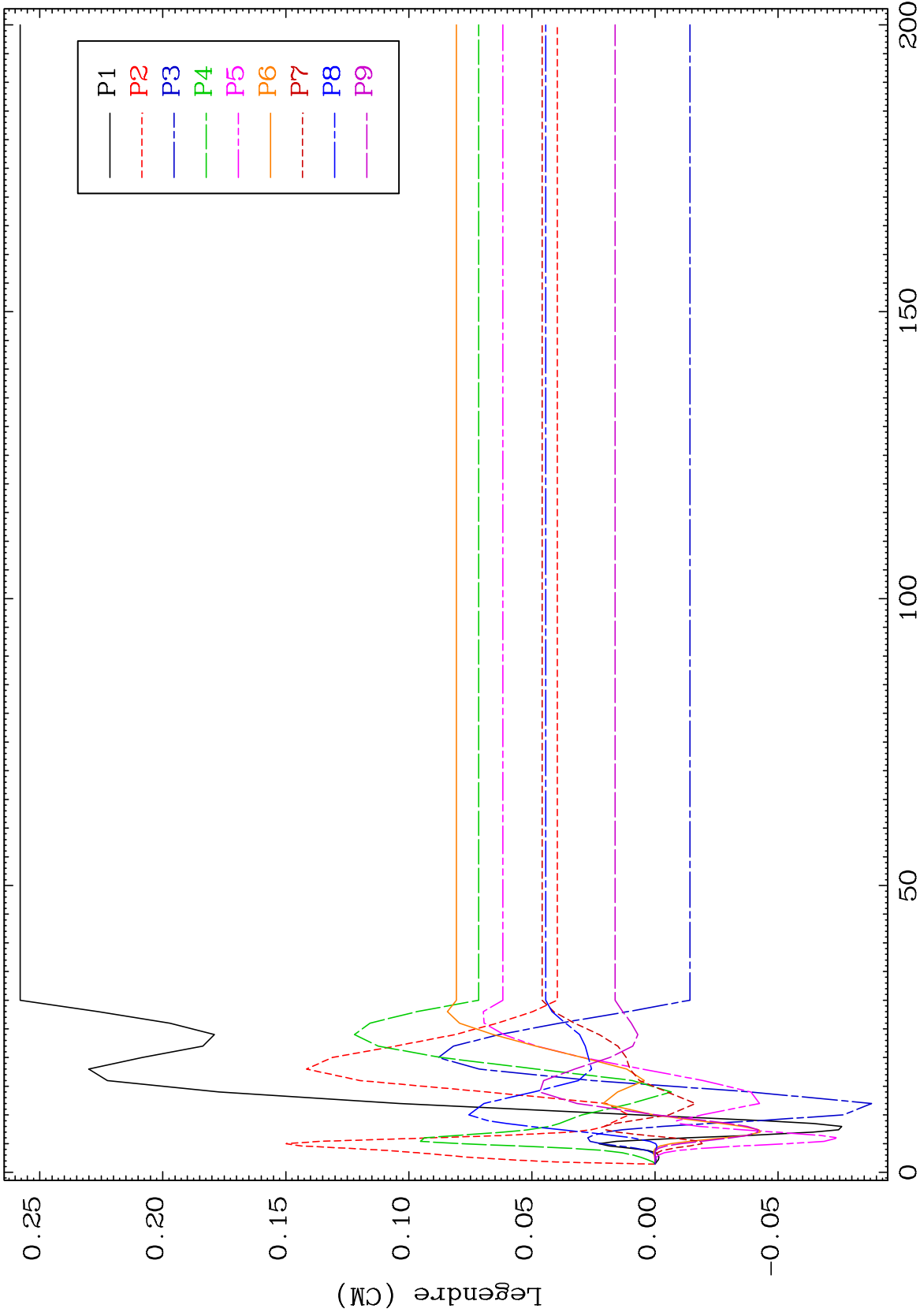
Incident Energy (MeV)

83

MAT 6431

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

64-Gd-154



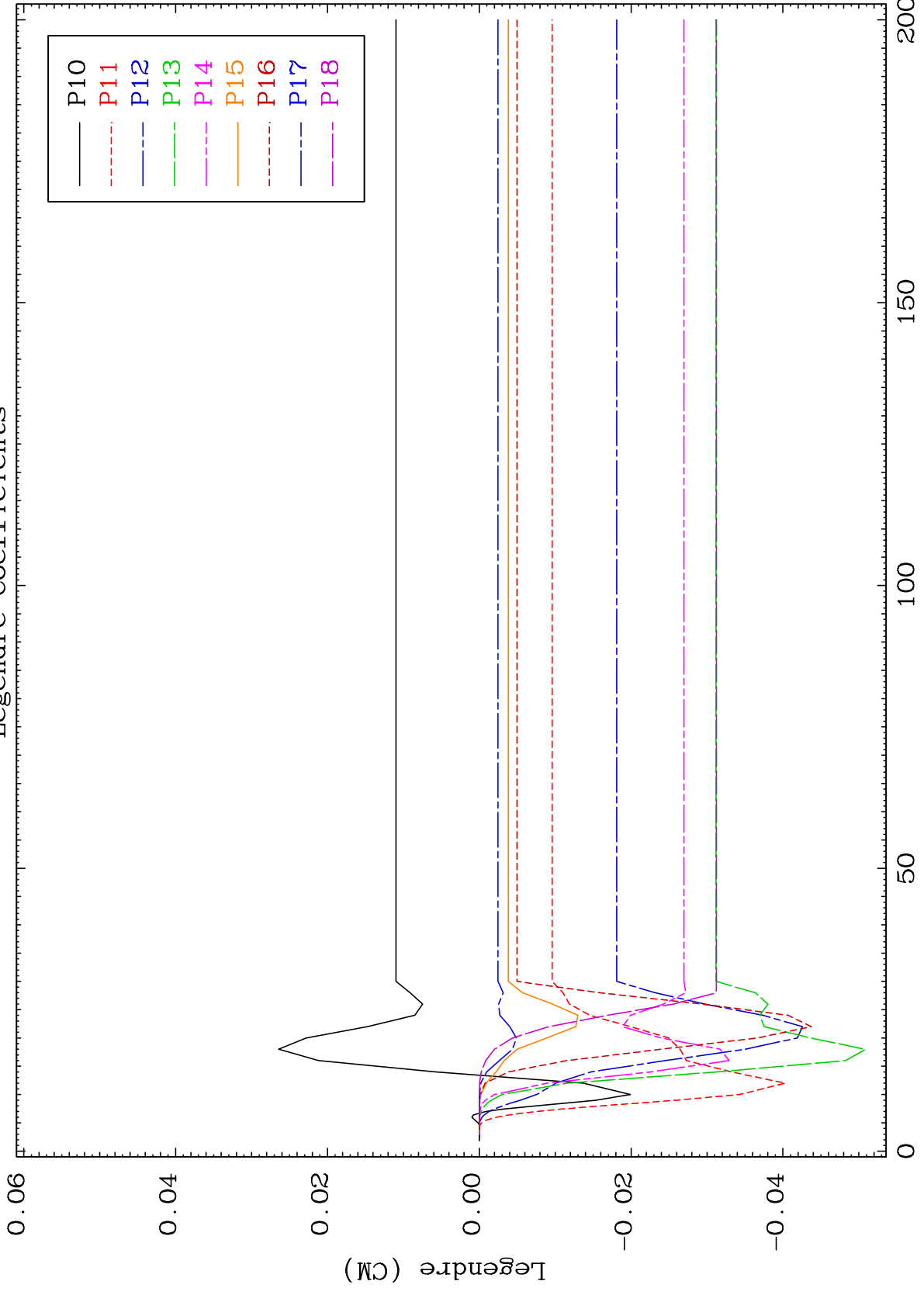
84

Incident Energy (MeV)

64-Gd-154

MAT 6431 MT= 68 (n,n') Level Legendre Coefficients

64-Gd-154



64-Gd-154

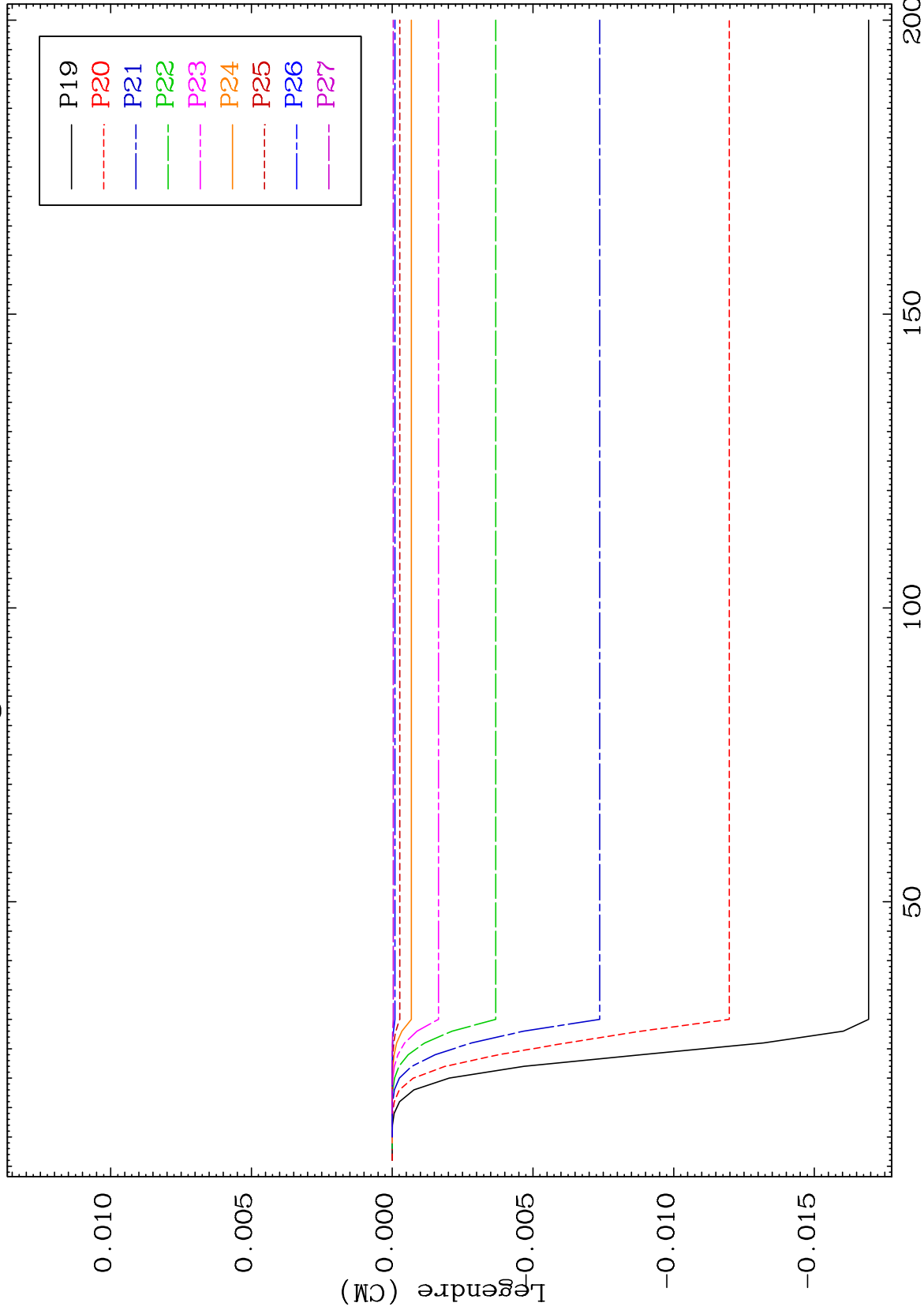
Incident Energy (MeV)

85

MAT 6431

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

64-Gd-154



86

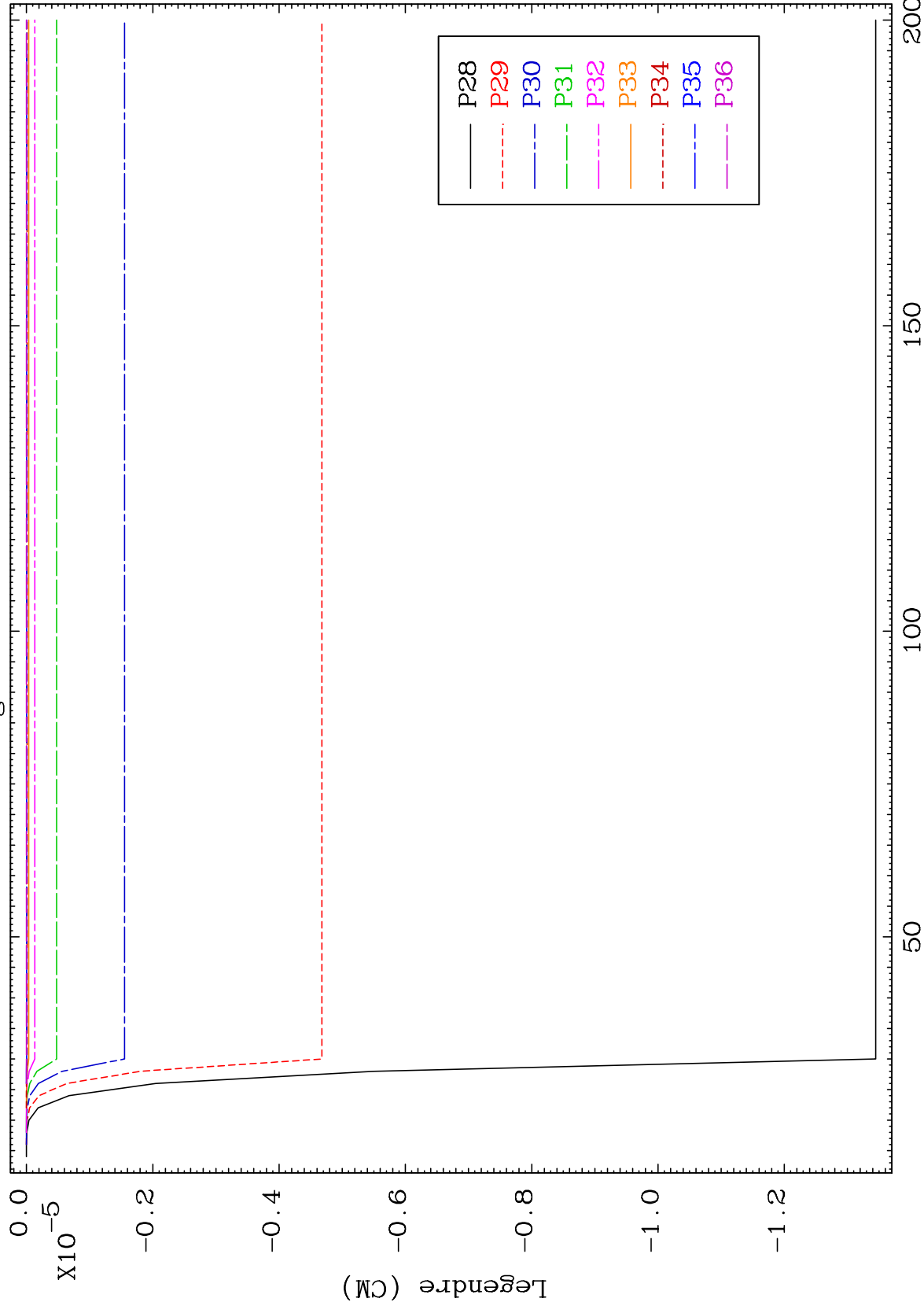
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154



64-Gd-154

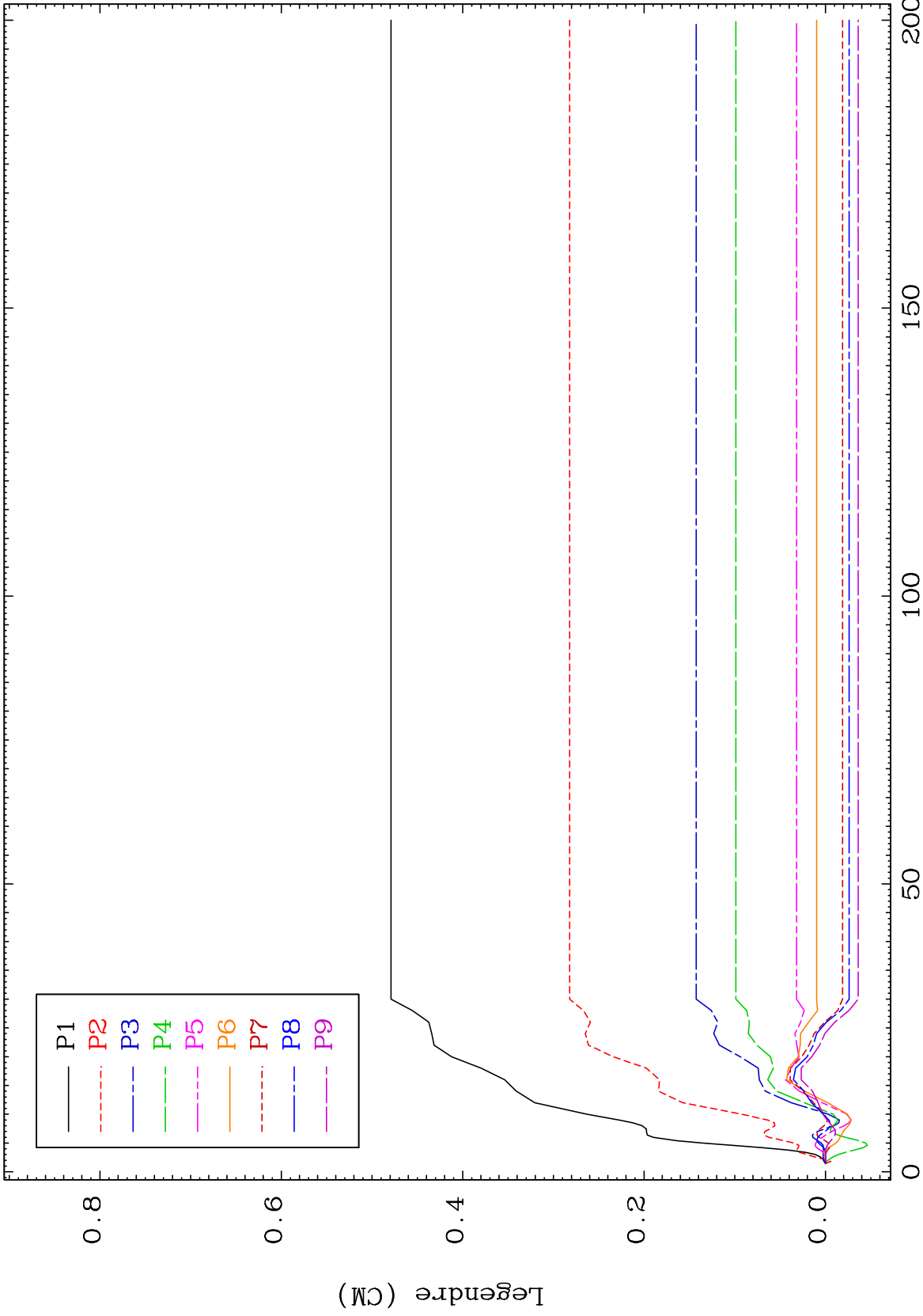
Incident Energy (MeV)

87

MAT 6431

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

64-Gd-154



88

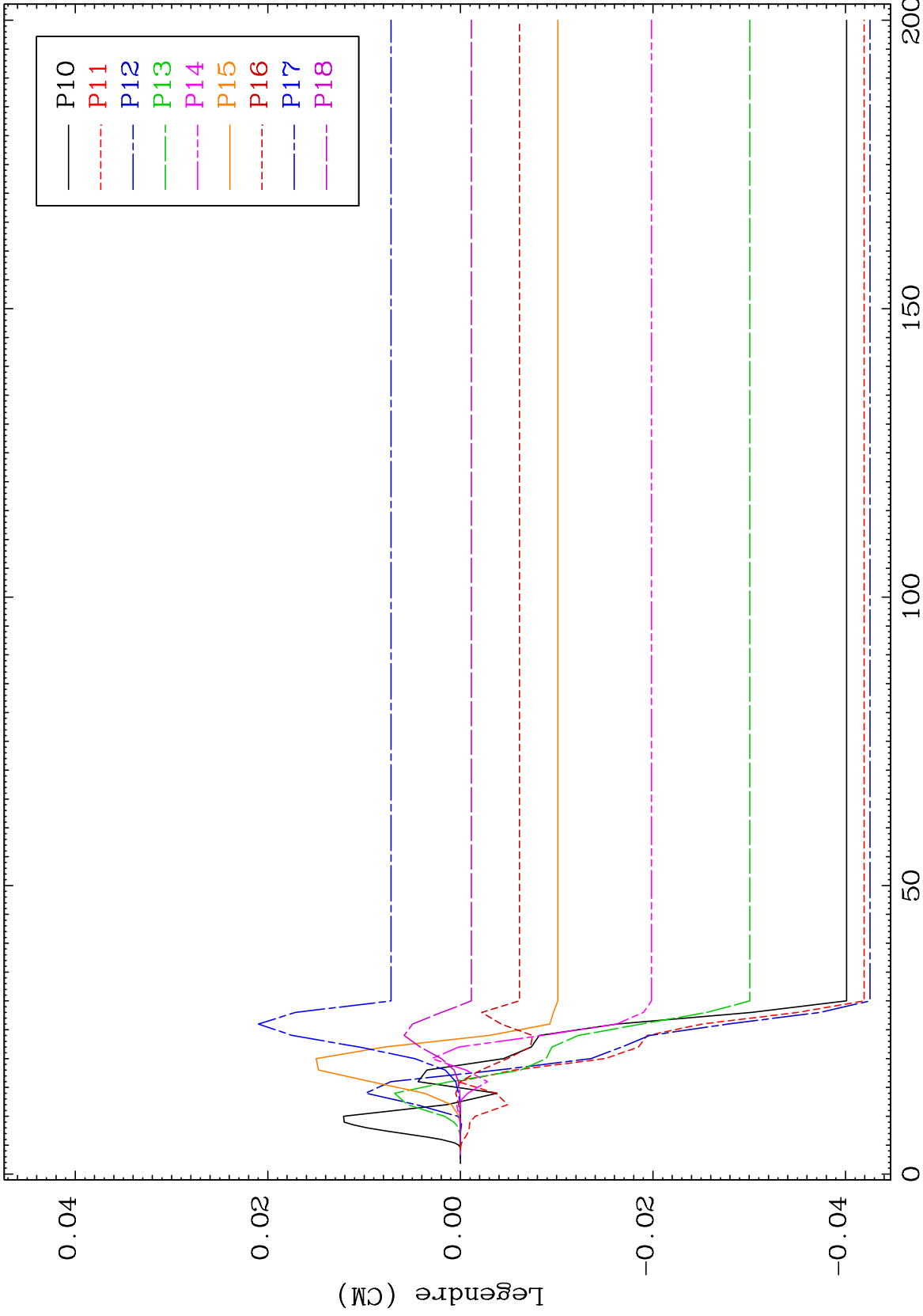
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154



89

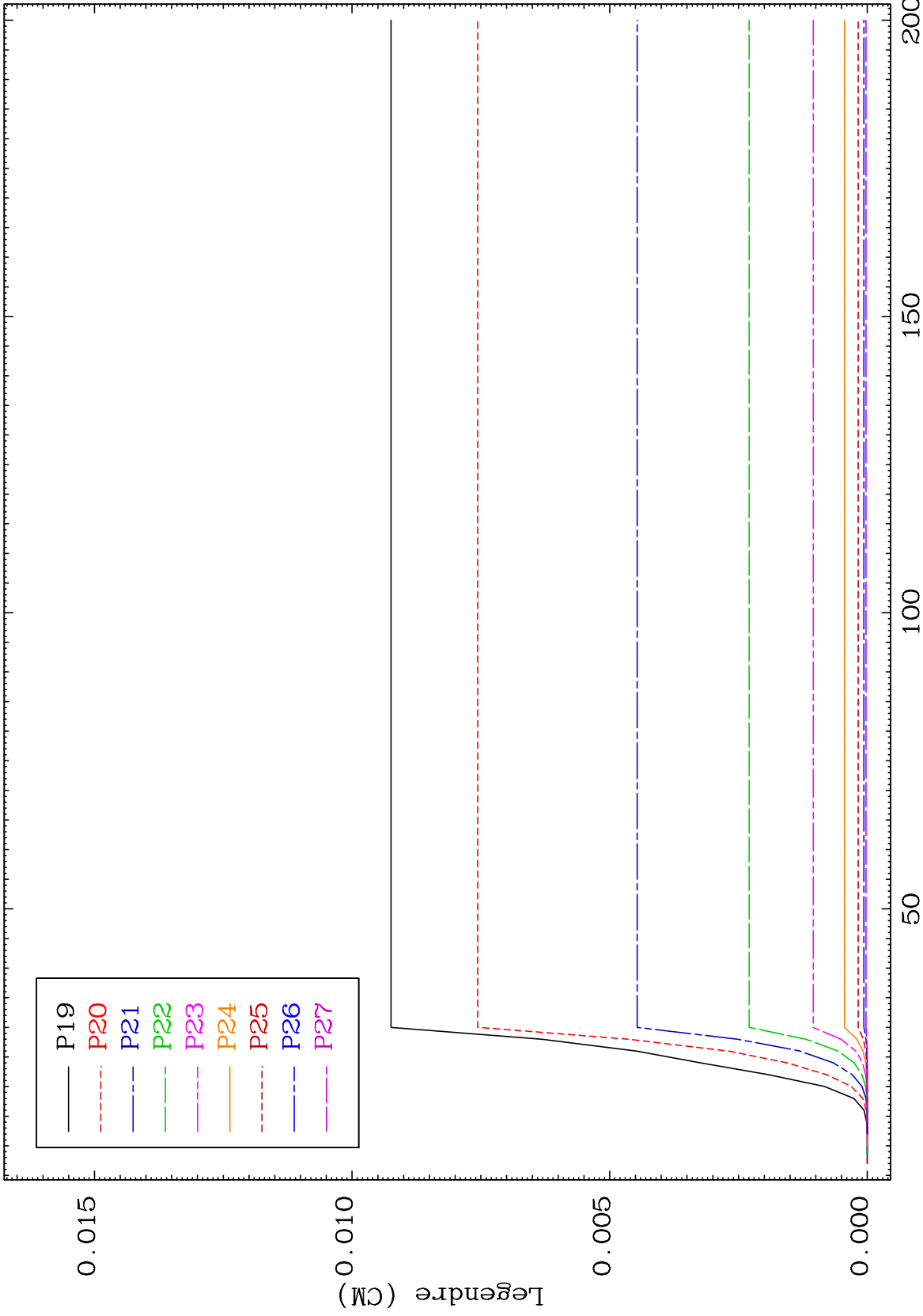
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154



90

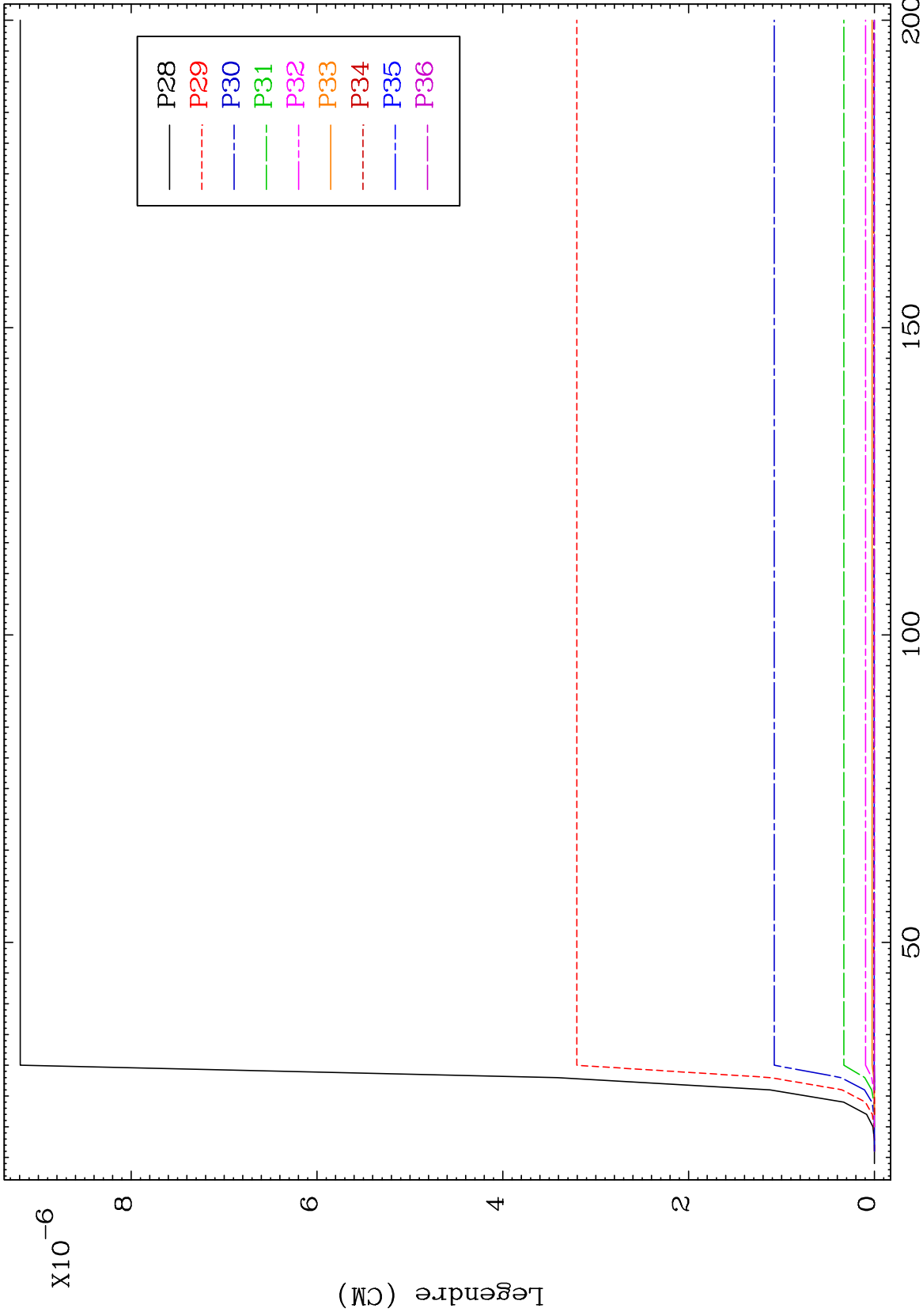
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154



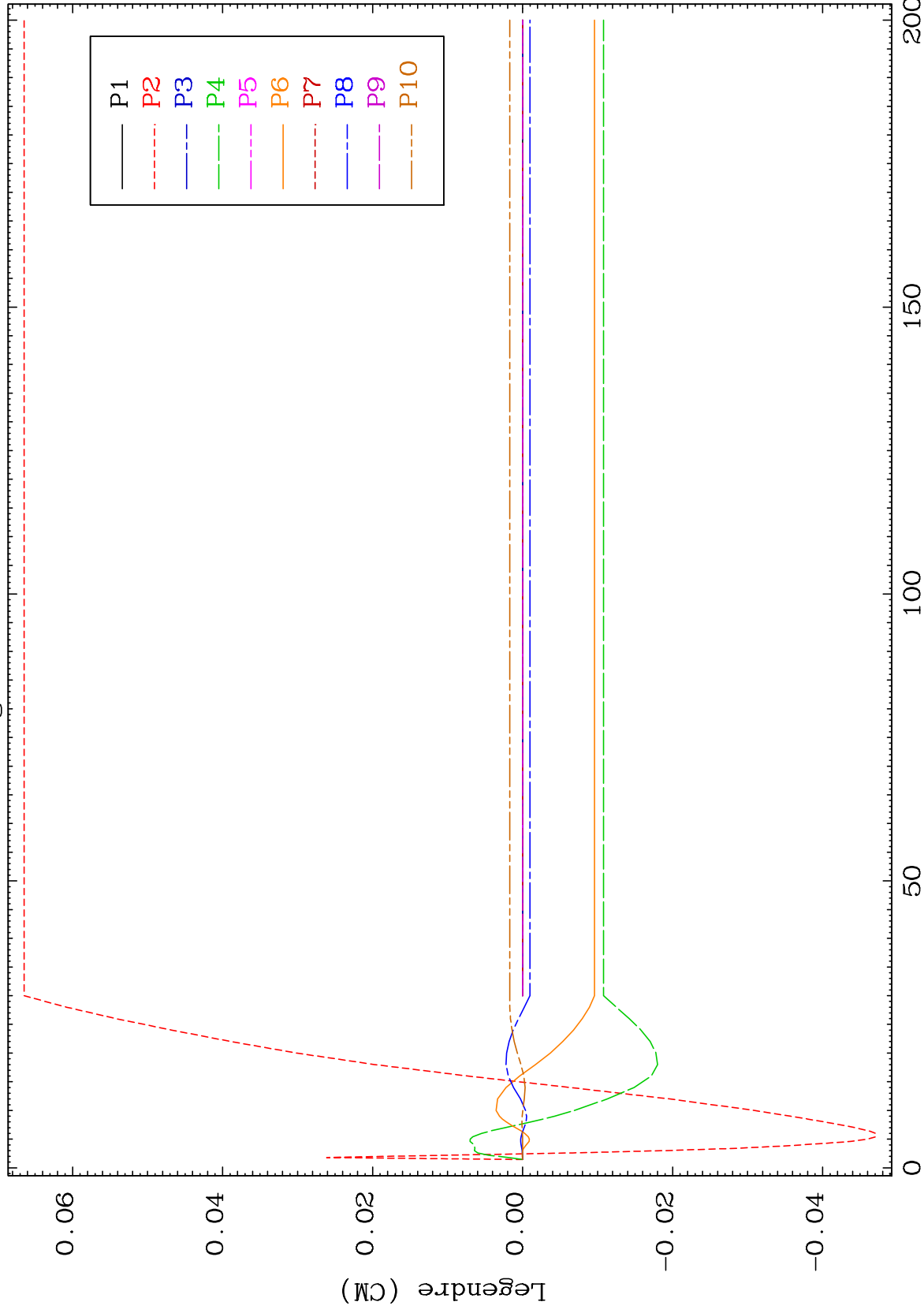
91

64-Gd-154

MAT 6431

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

64-Gd-154



92

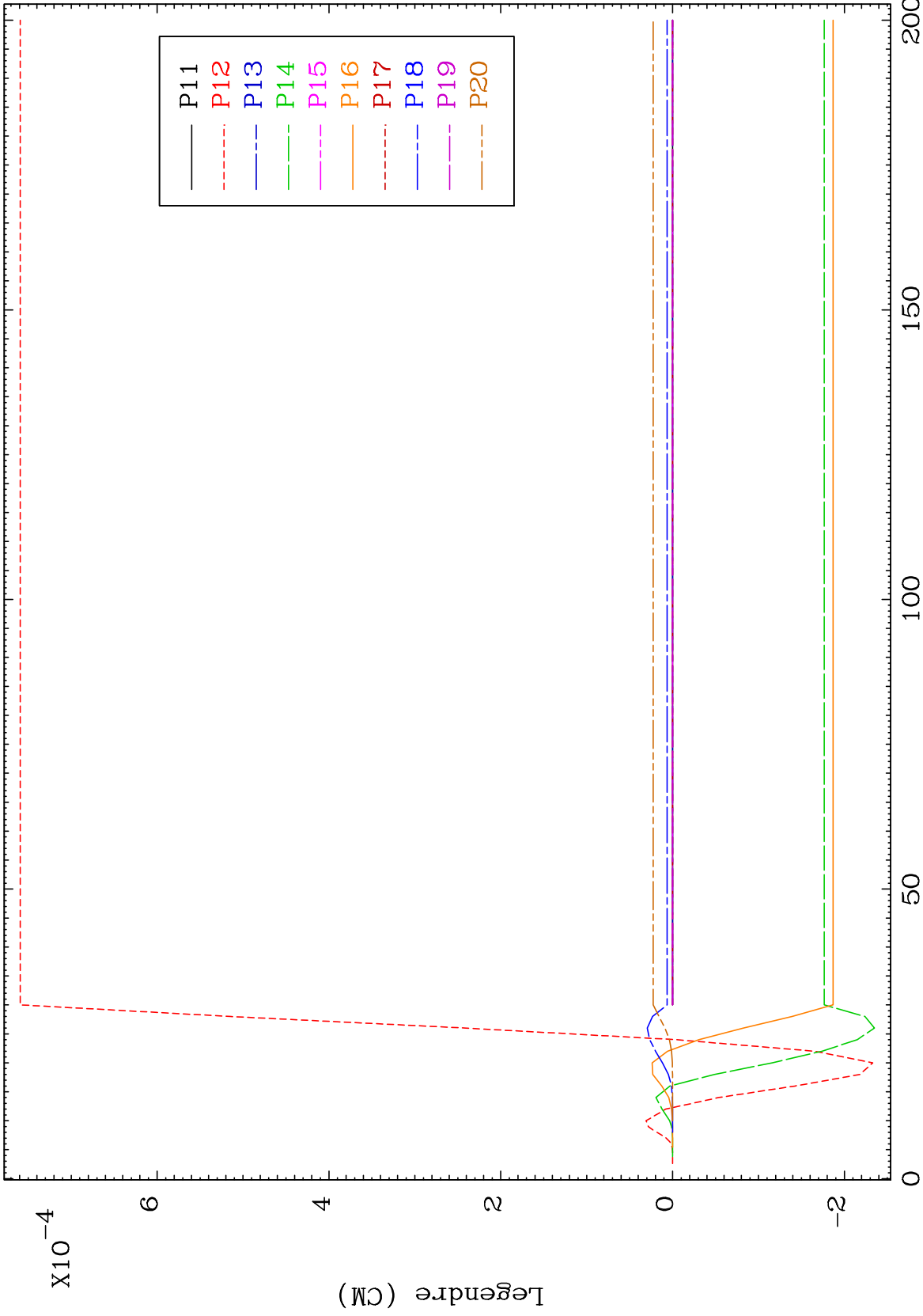
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154

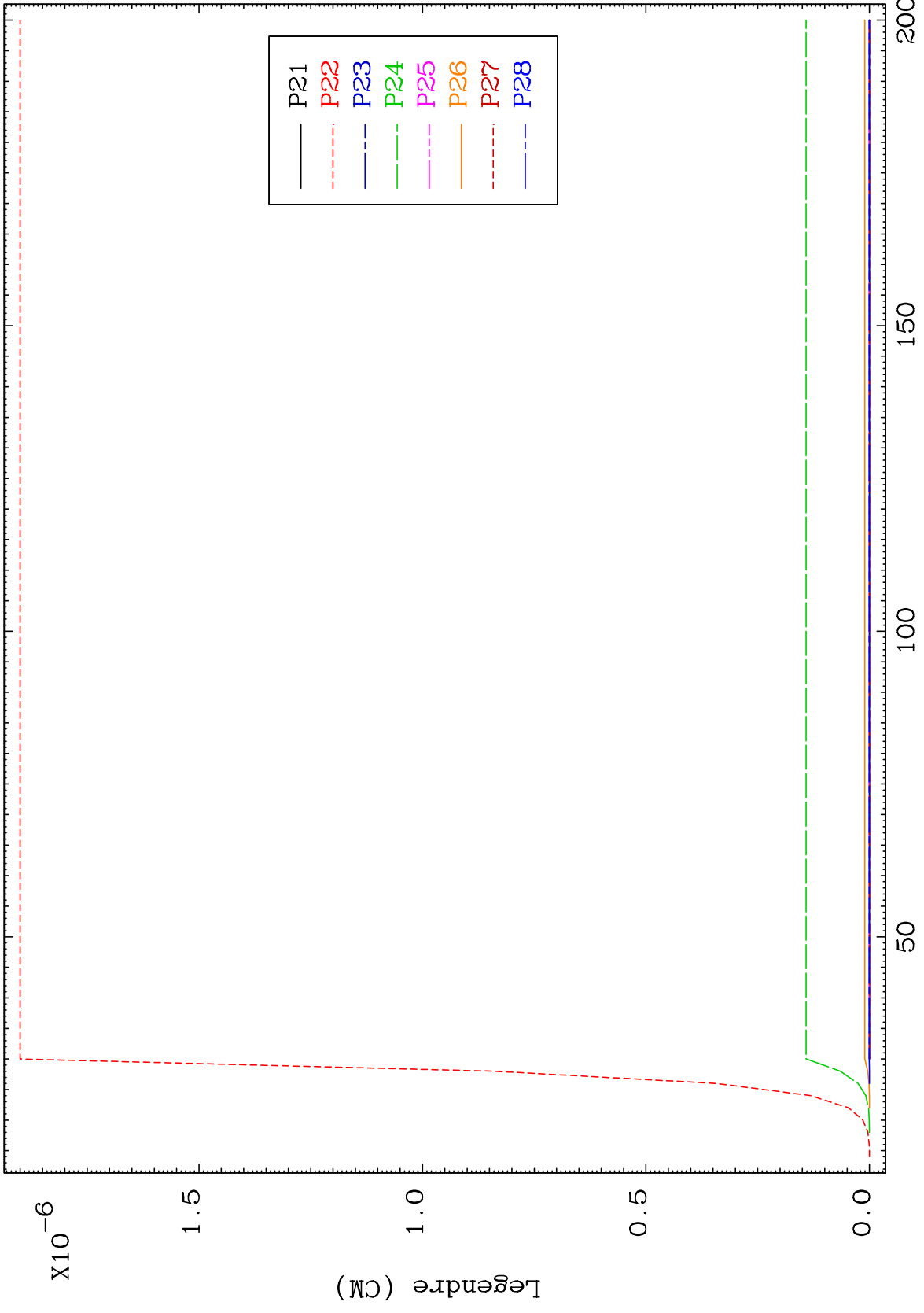


93

Incident Energy (MeV)

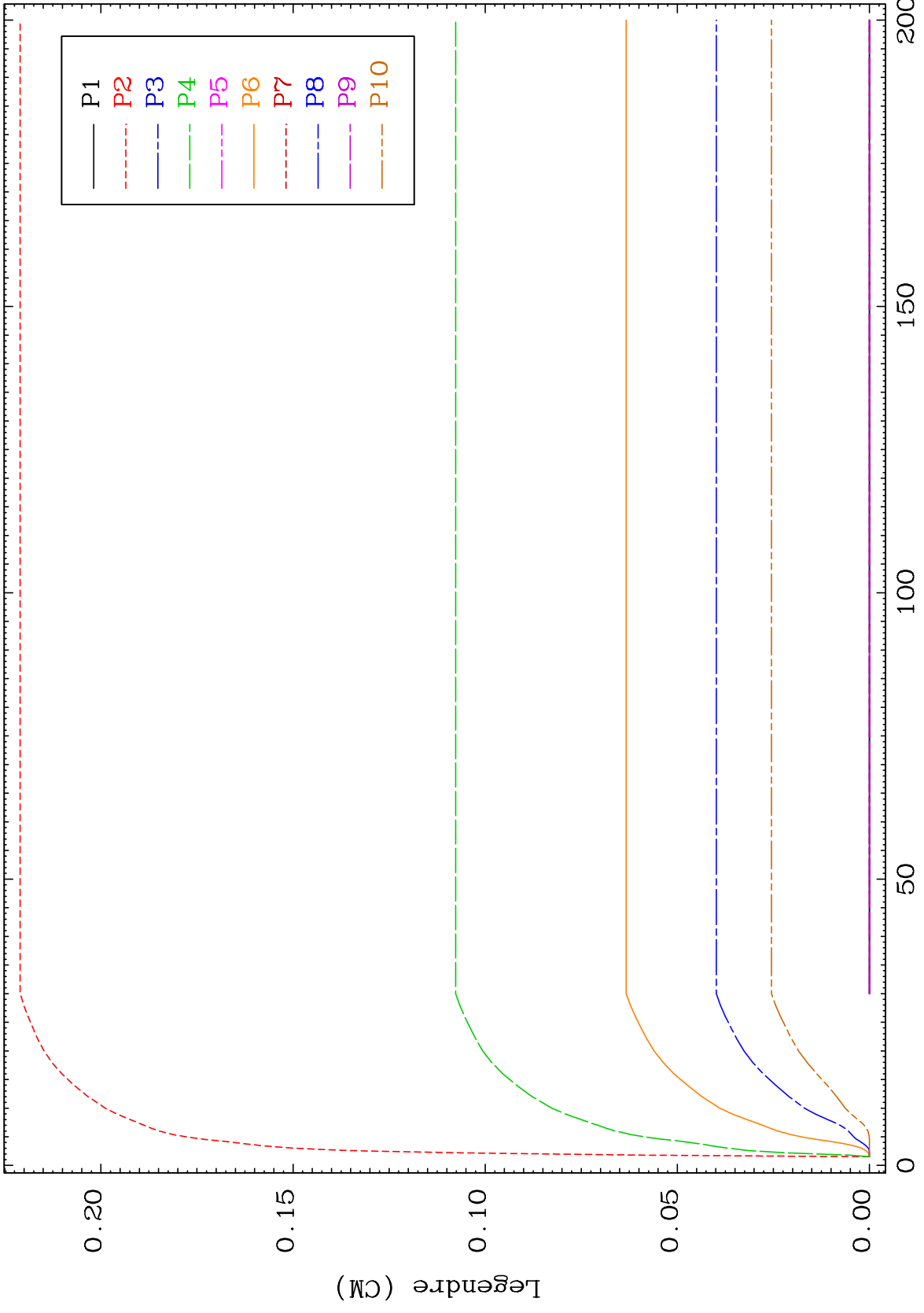
64-Gd-154

MAT 6431 MT= 70 (n,n') Level Legendre Coefficients 64-Gd-154



94 64-Gd-154

MAT 6431 MT= 71 (n,n') Level Legendre Coefficients 64-Gd-154

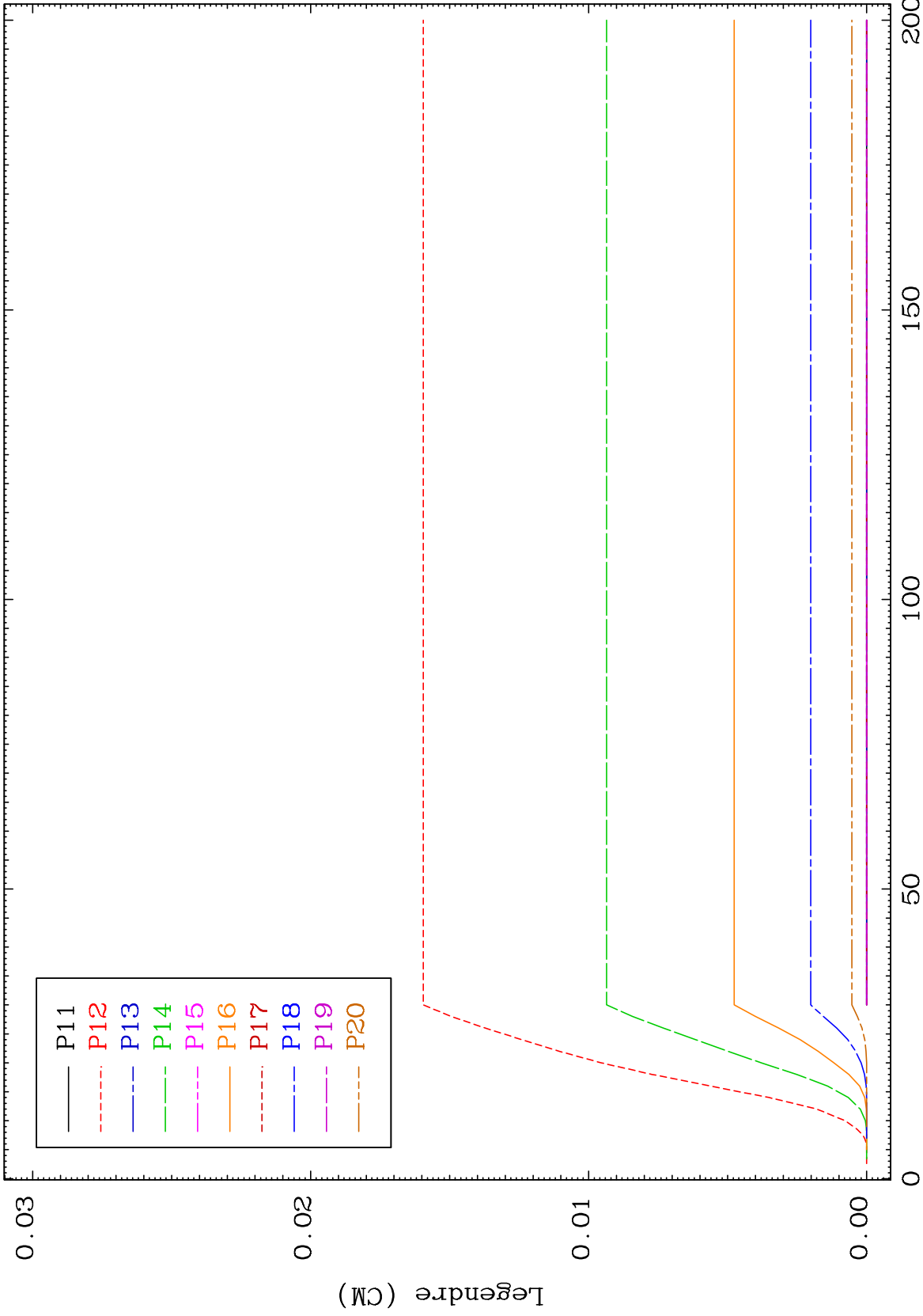


95 64-Gd-154

MAT 6431

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

64-Gd-154

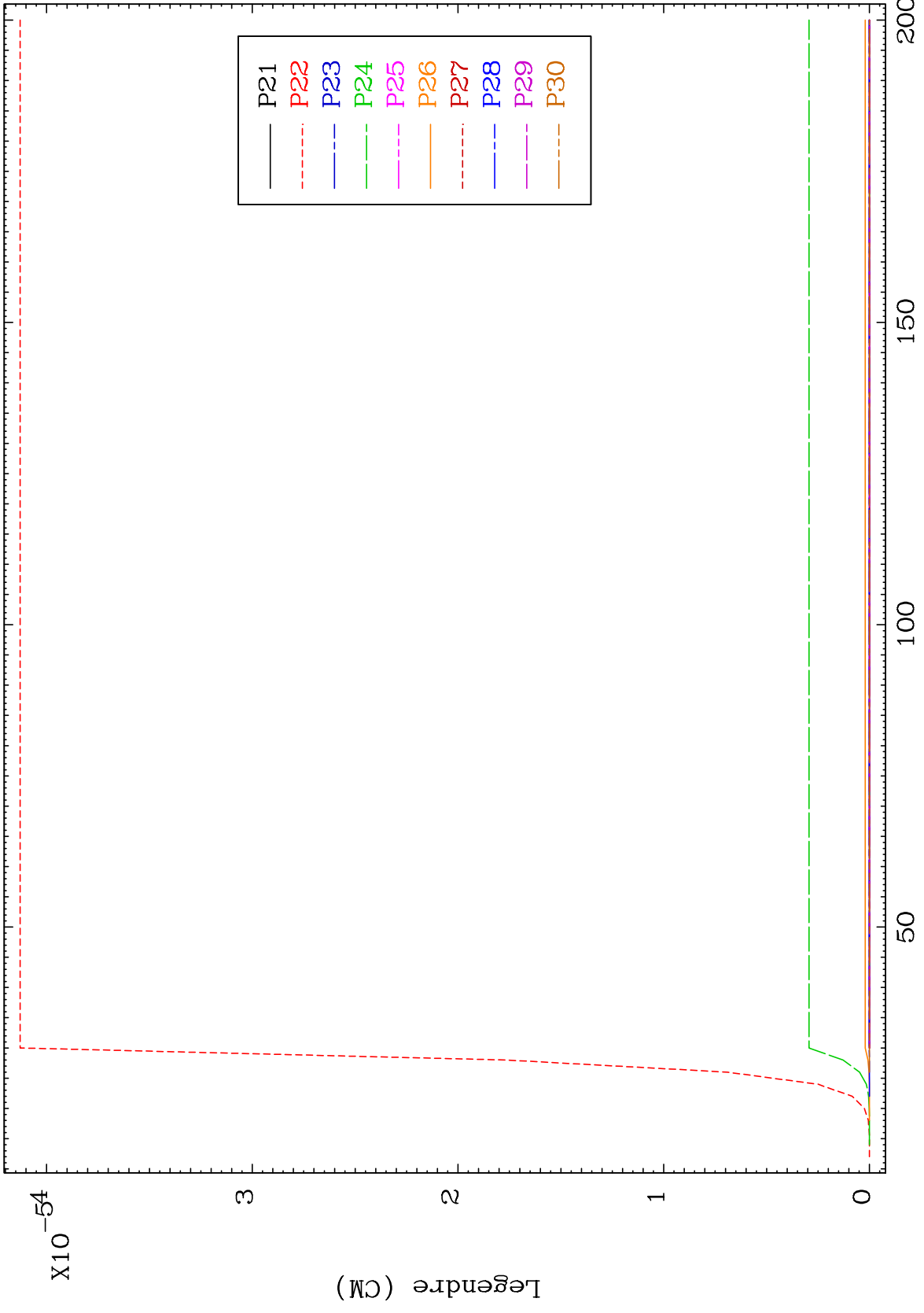


96

Incident Energy (MeV)

64-Gd-154

MAT 6431 MT= 71 (n,n') Level Legendre Coefficients 64-Gd-154

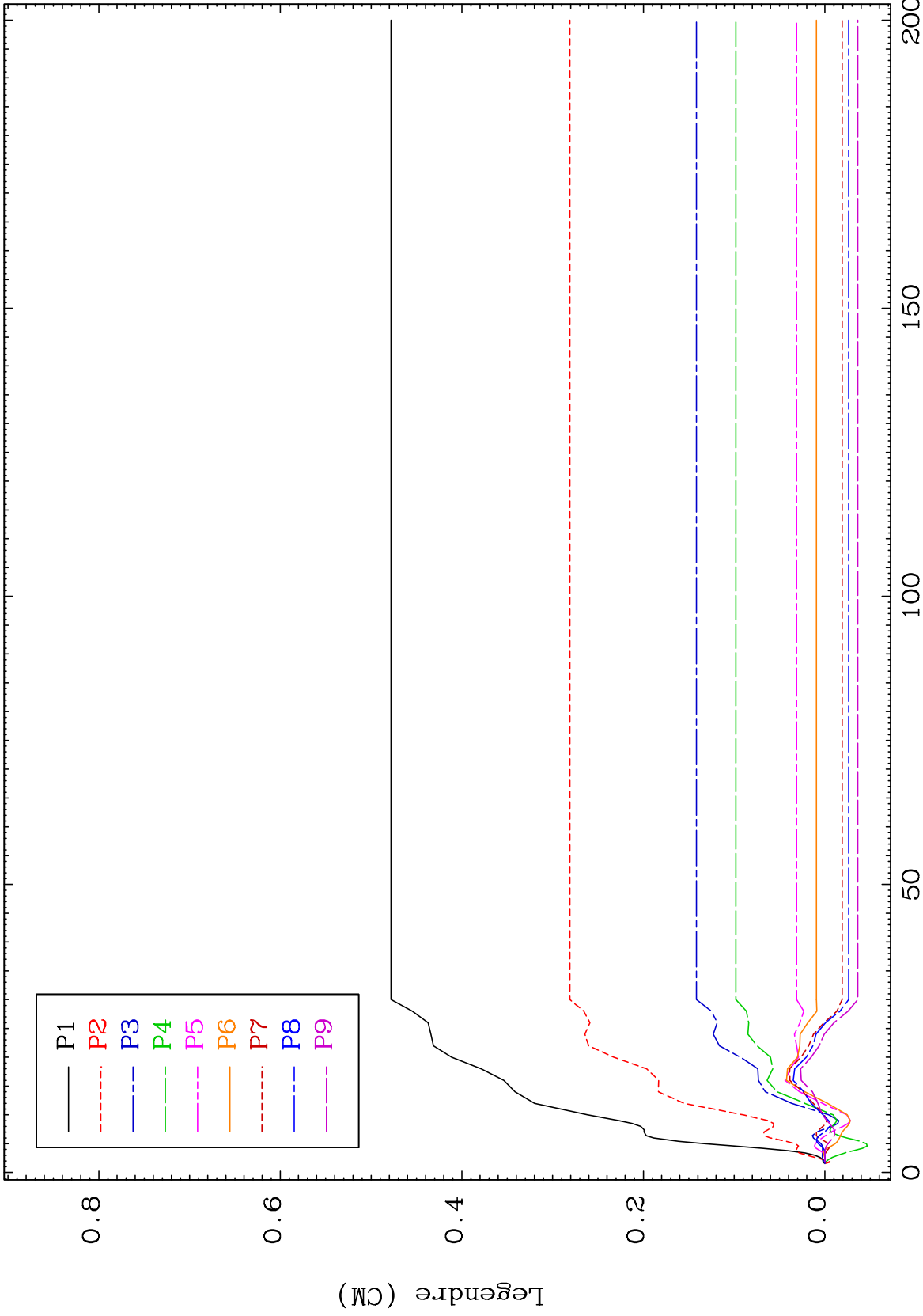


97 64-Gd-154

MAT 6431

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

64-Gd-154



98

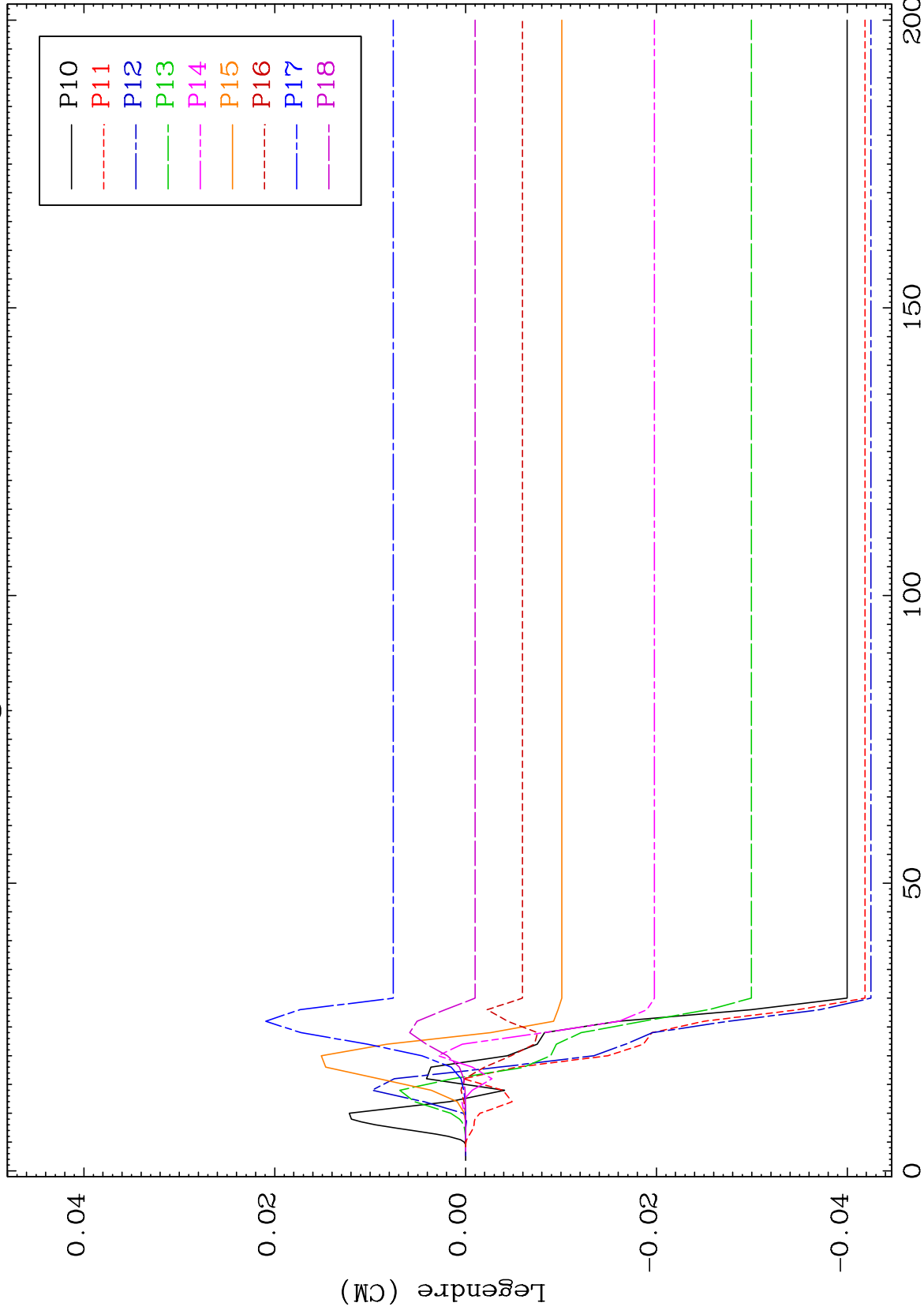
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154



99

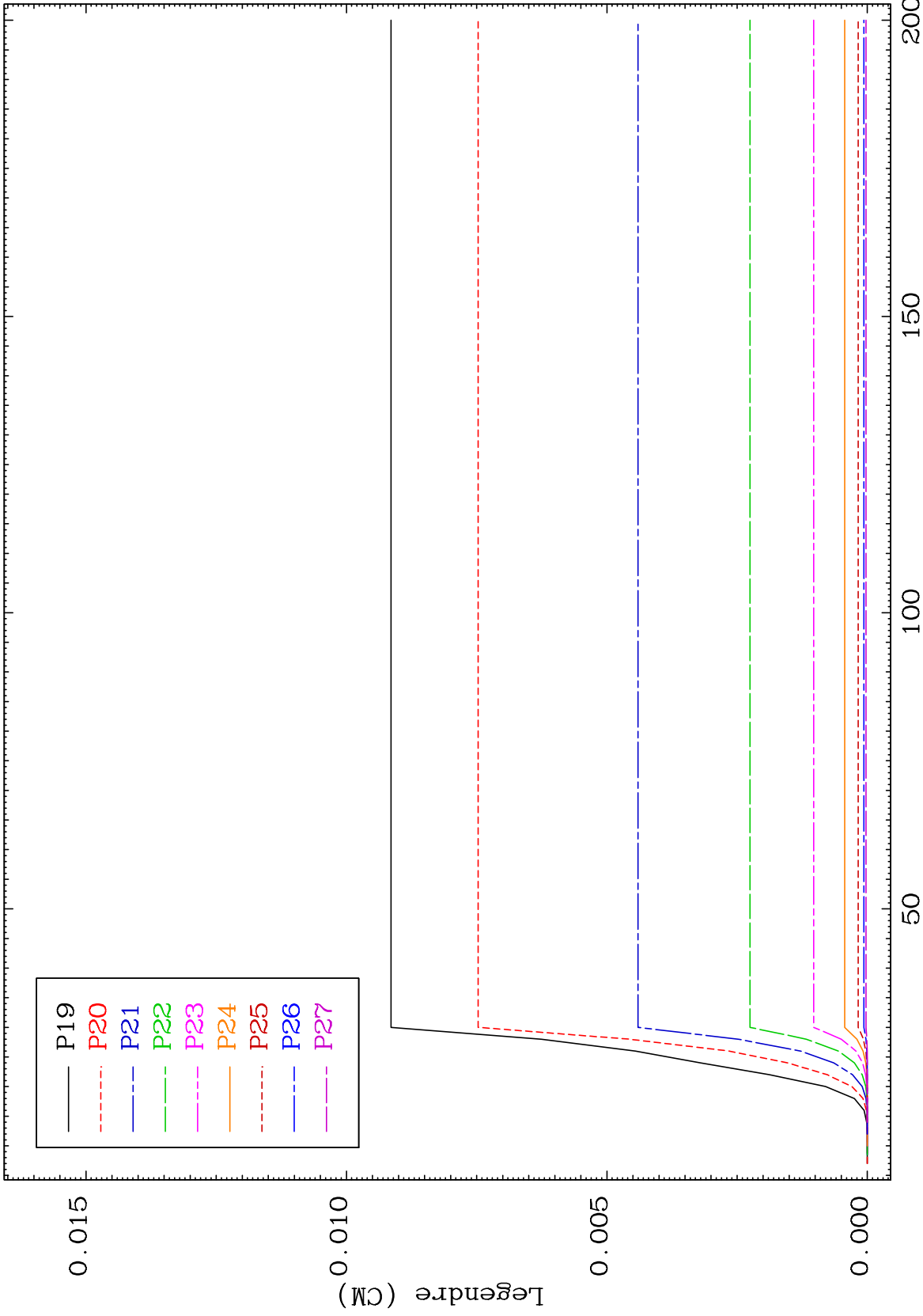
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154



64-Gd-154

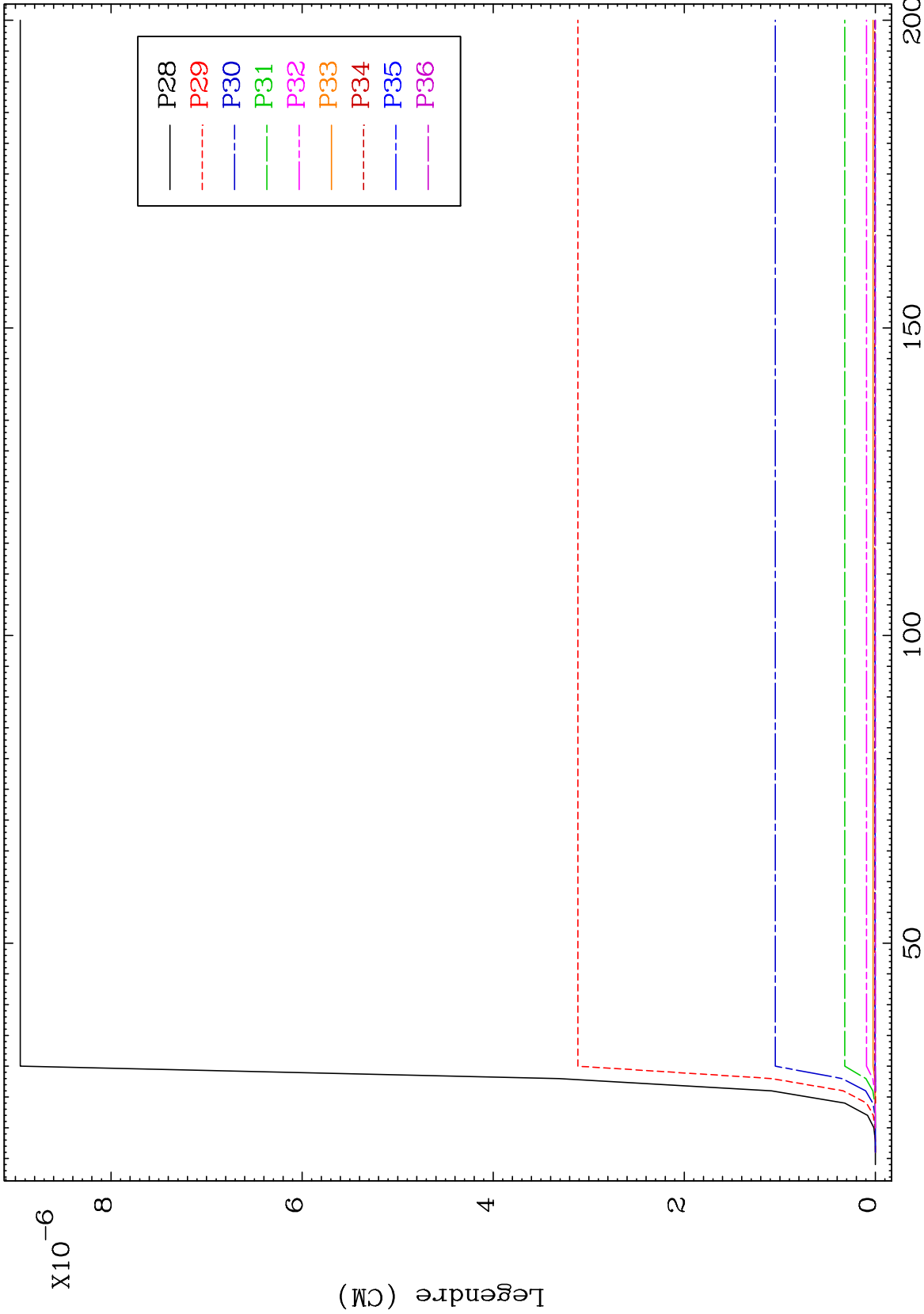
Incident Energy (MeV)

100

MAT 6431

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

64-Gd-154

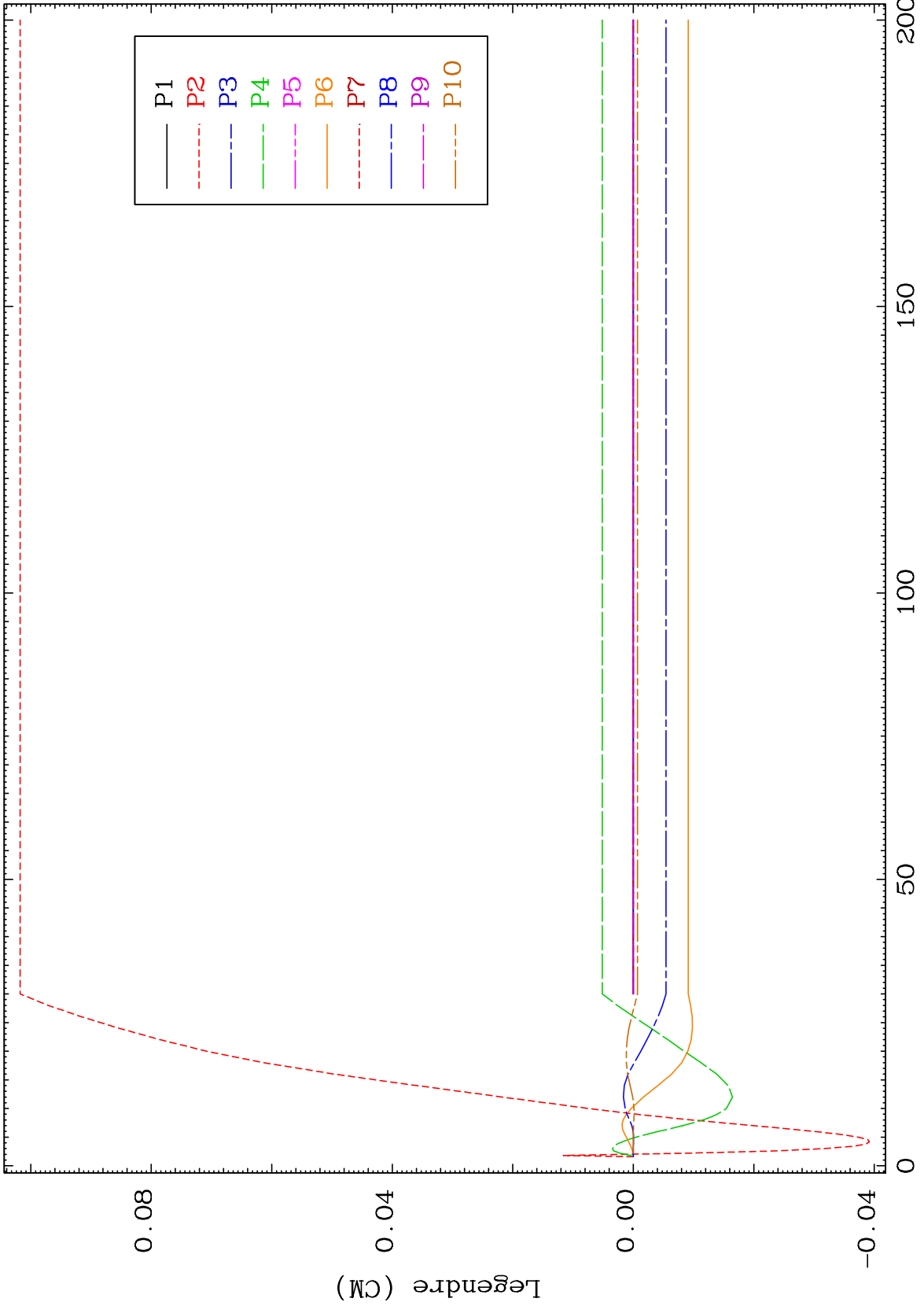


101

Incident Energy (MeV)

64-Gd-154

MAT 6431 MT= 73 (n,n') Level Legendre Coefficients 64-Gd-154

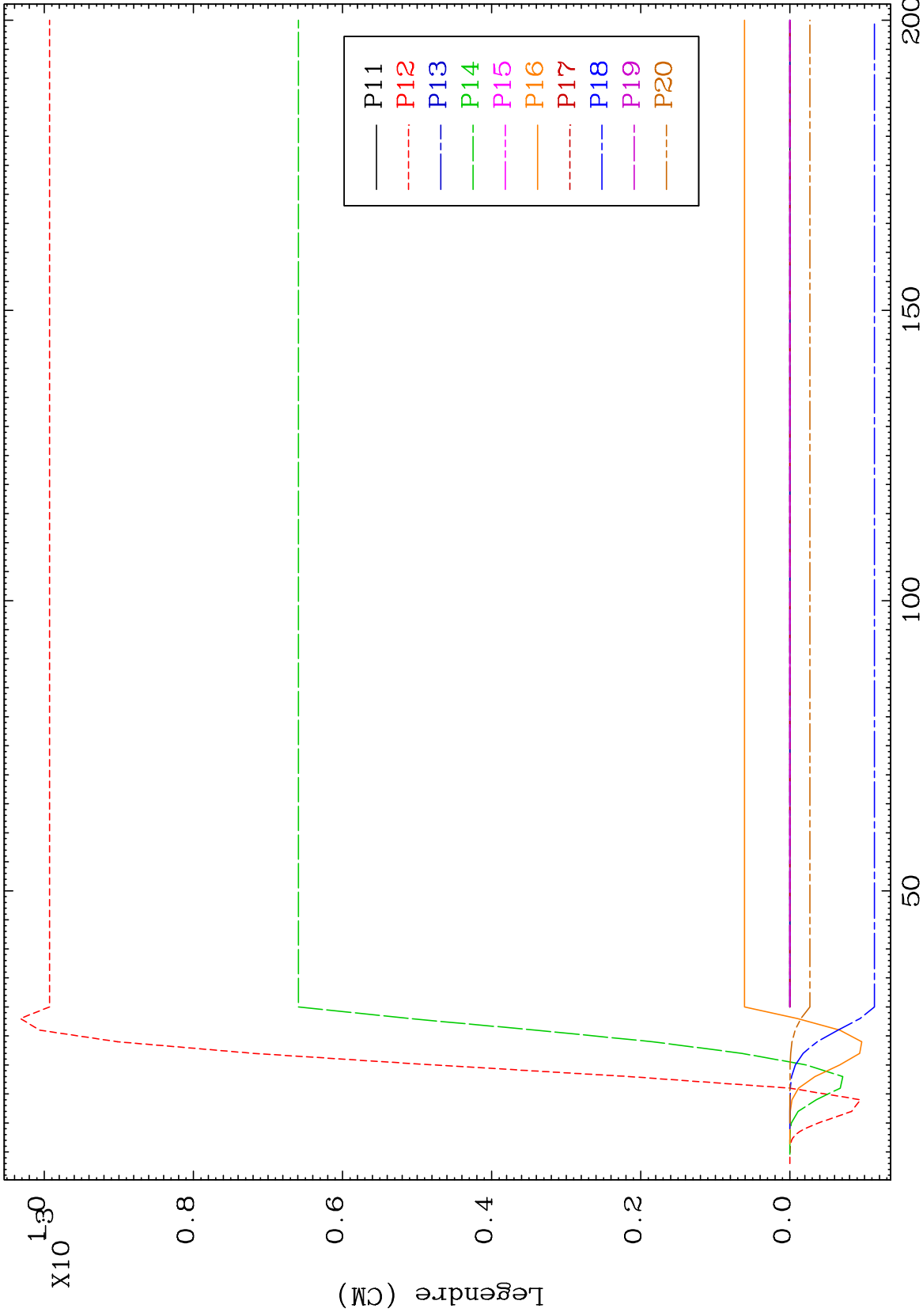


102 Incident Energy (MeV) 64-Gd-154

MAT 6431

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

64-Gd-154



103

Incident Energy (MeV)

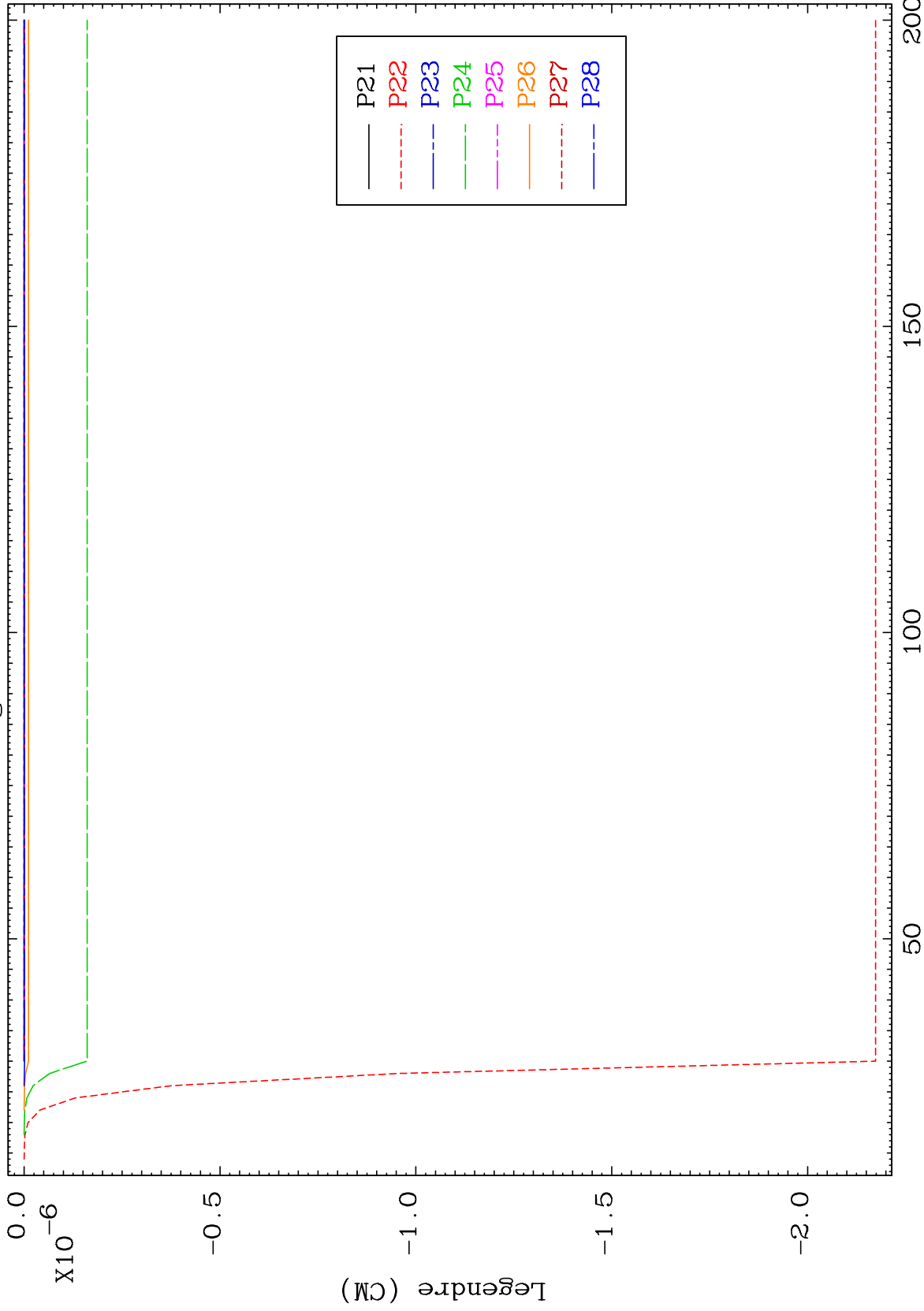
64-Gd-154

MAT 6431

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

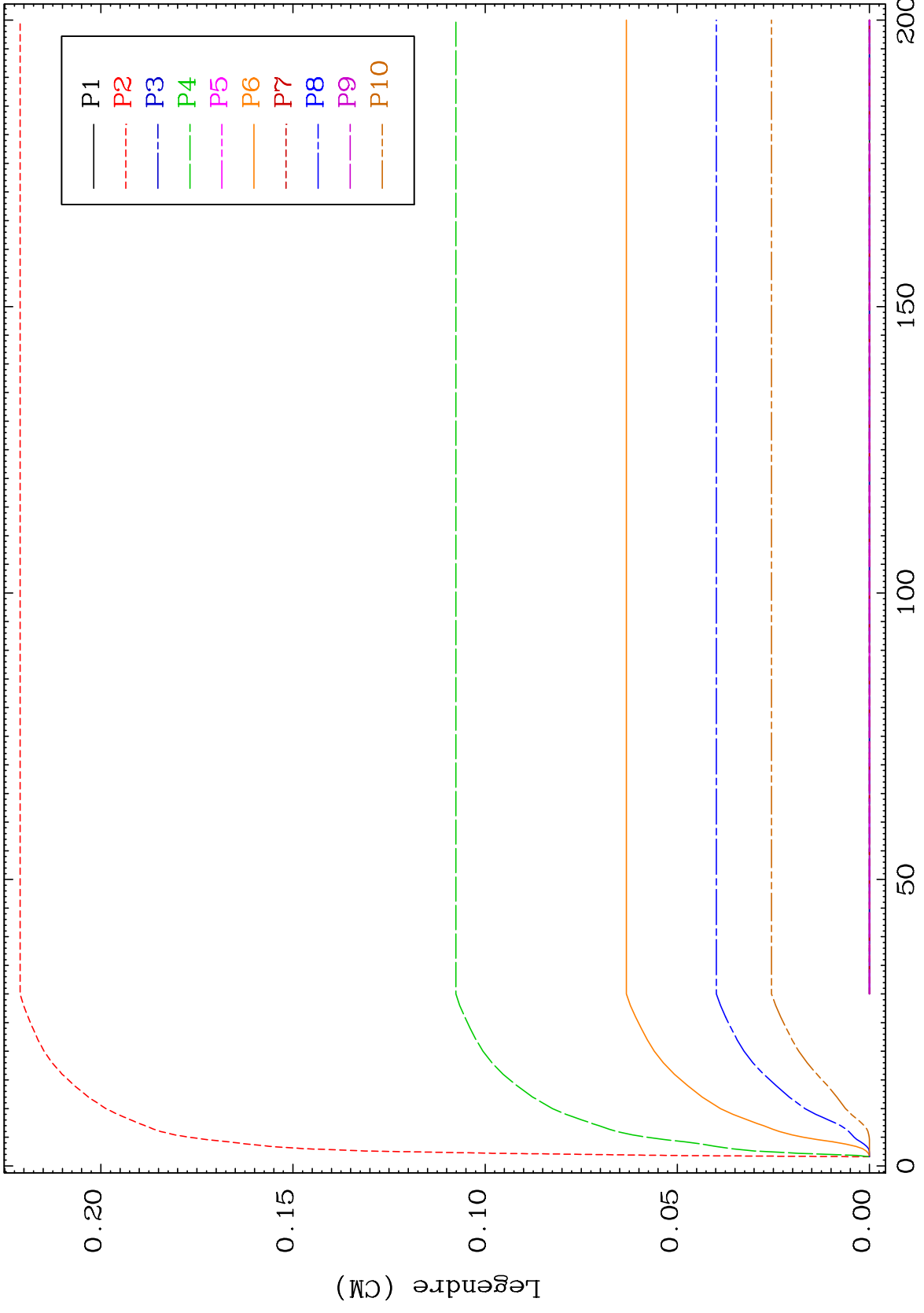
64-Gd-154

64-Gd-154



104

MAT 6431 MT= 74 (n,n') Level Legendre Coefficients 64-Gd-154

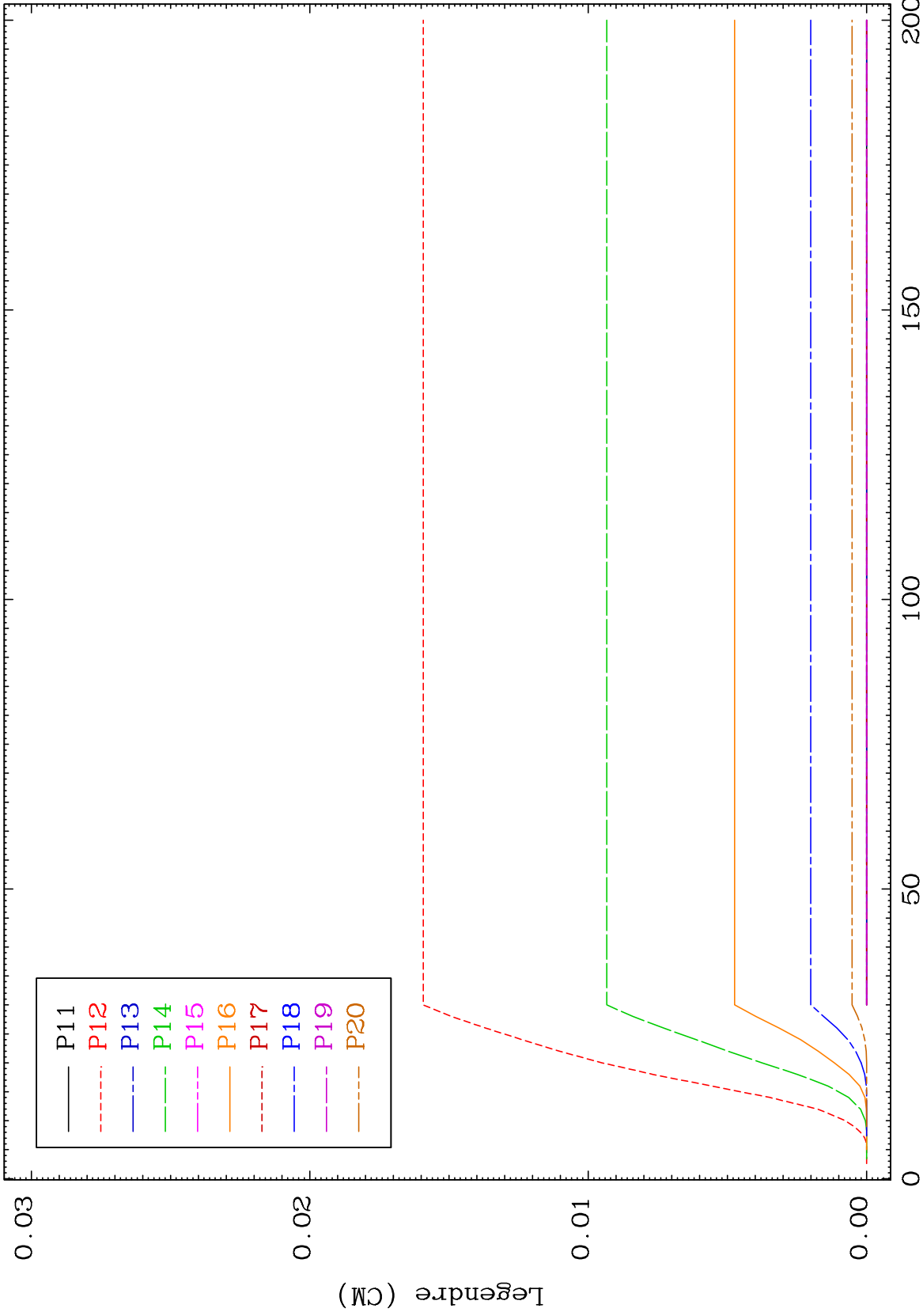


64-Gd-154 Incident Energy (MeV)

MAT 6431

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

64-Gd-154

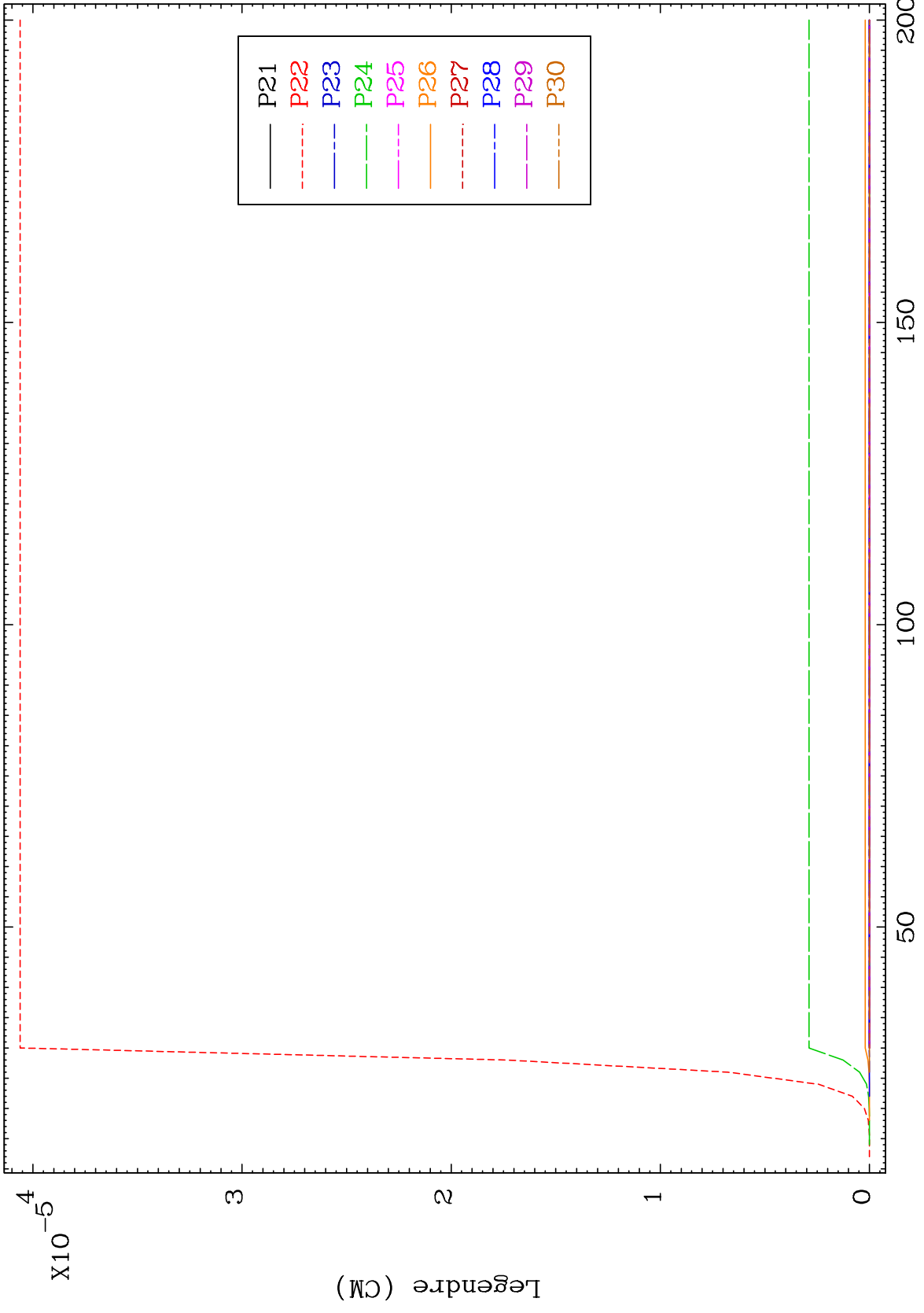


106

Incident Energy (MeV)

64-Gd-154

MAT 6431 MT= 74 (n,n') Level Legendre Coefficients 64-Gd-154

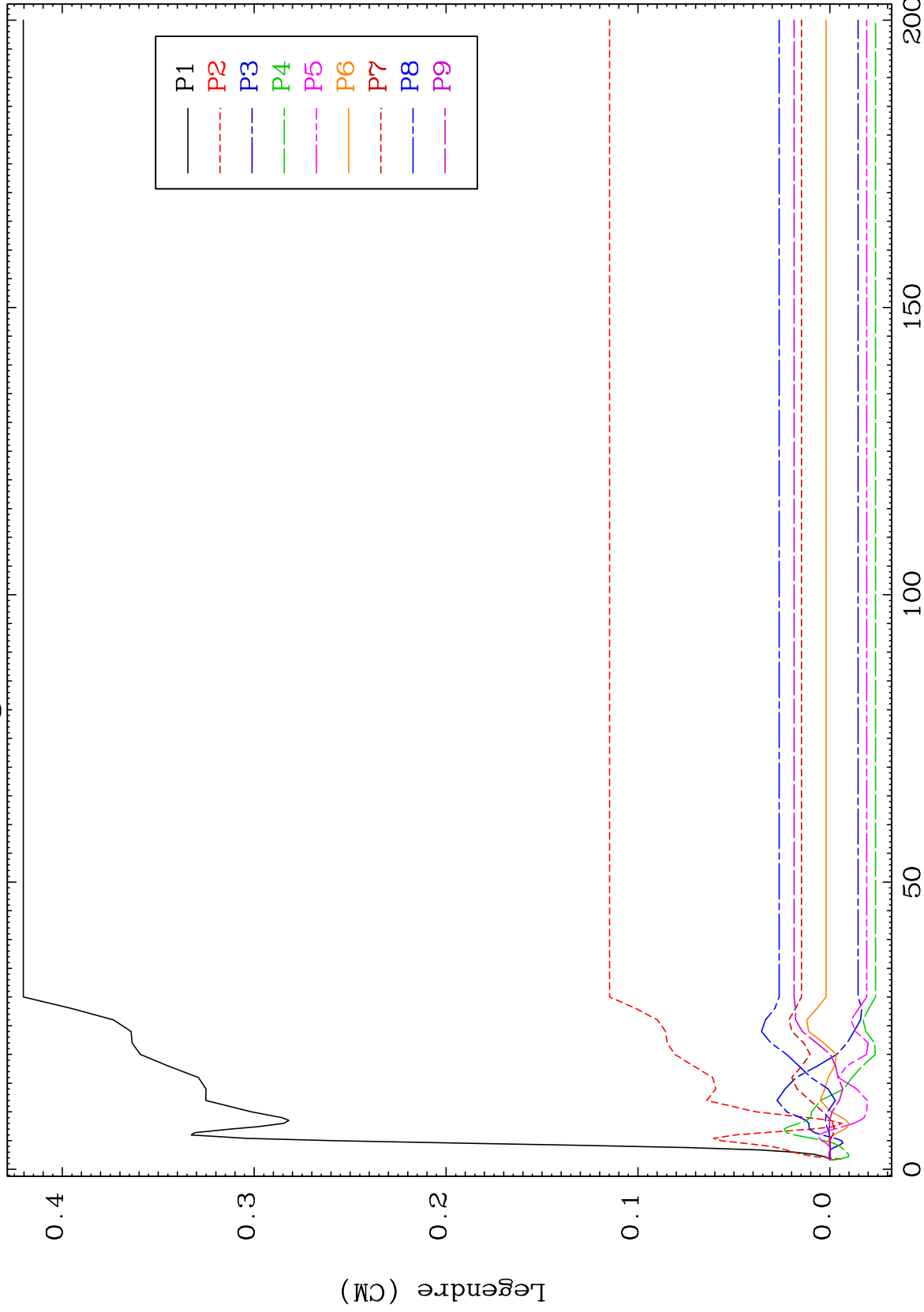


107 Incident Energy (MeV) 64-Gd-154

MAT 6431

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

64-Gd-154



108

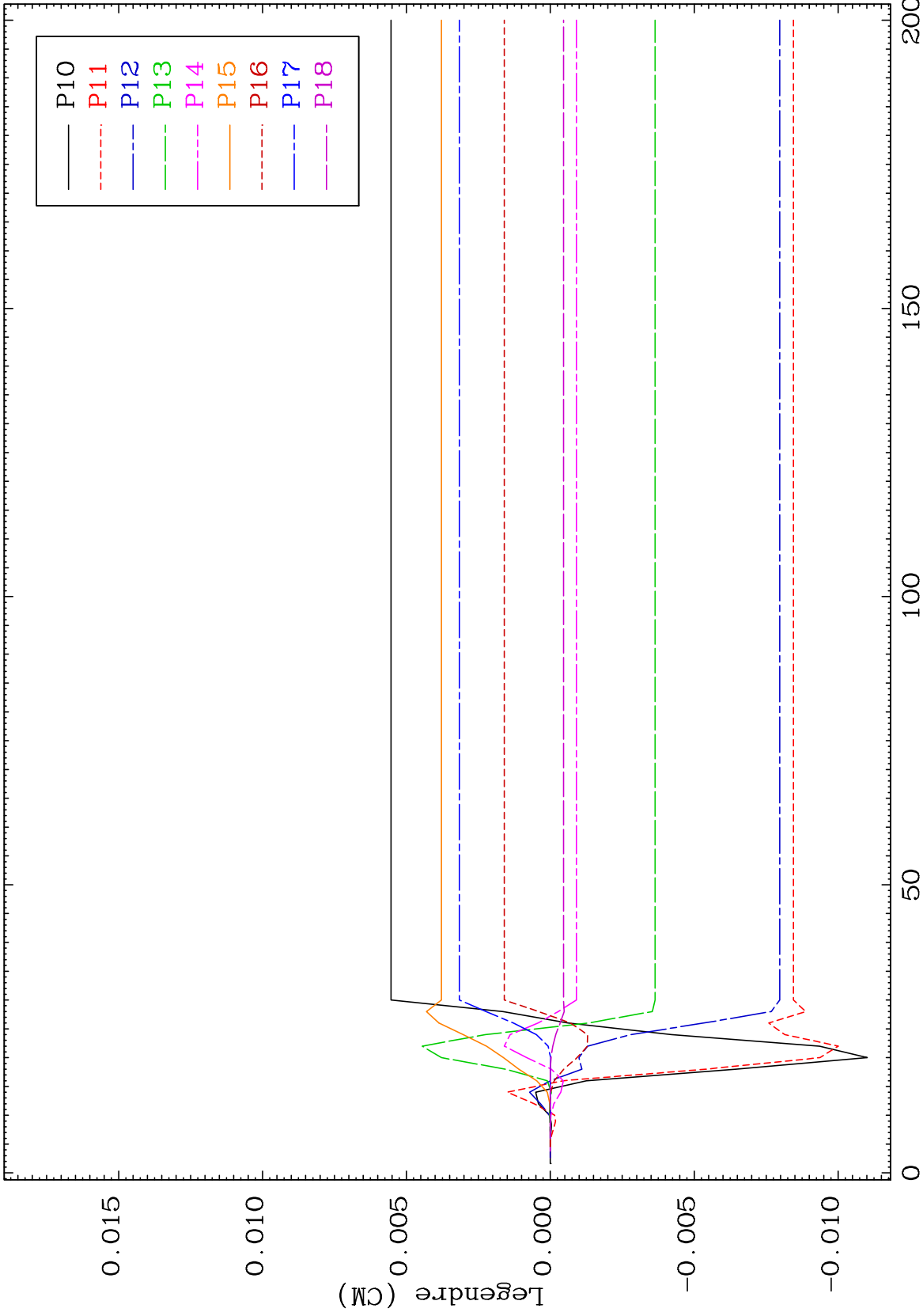
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154



109

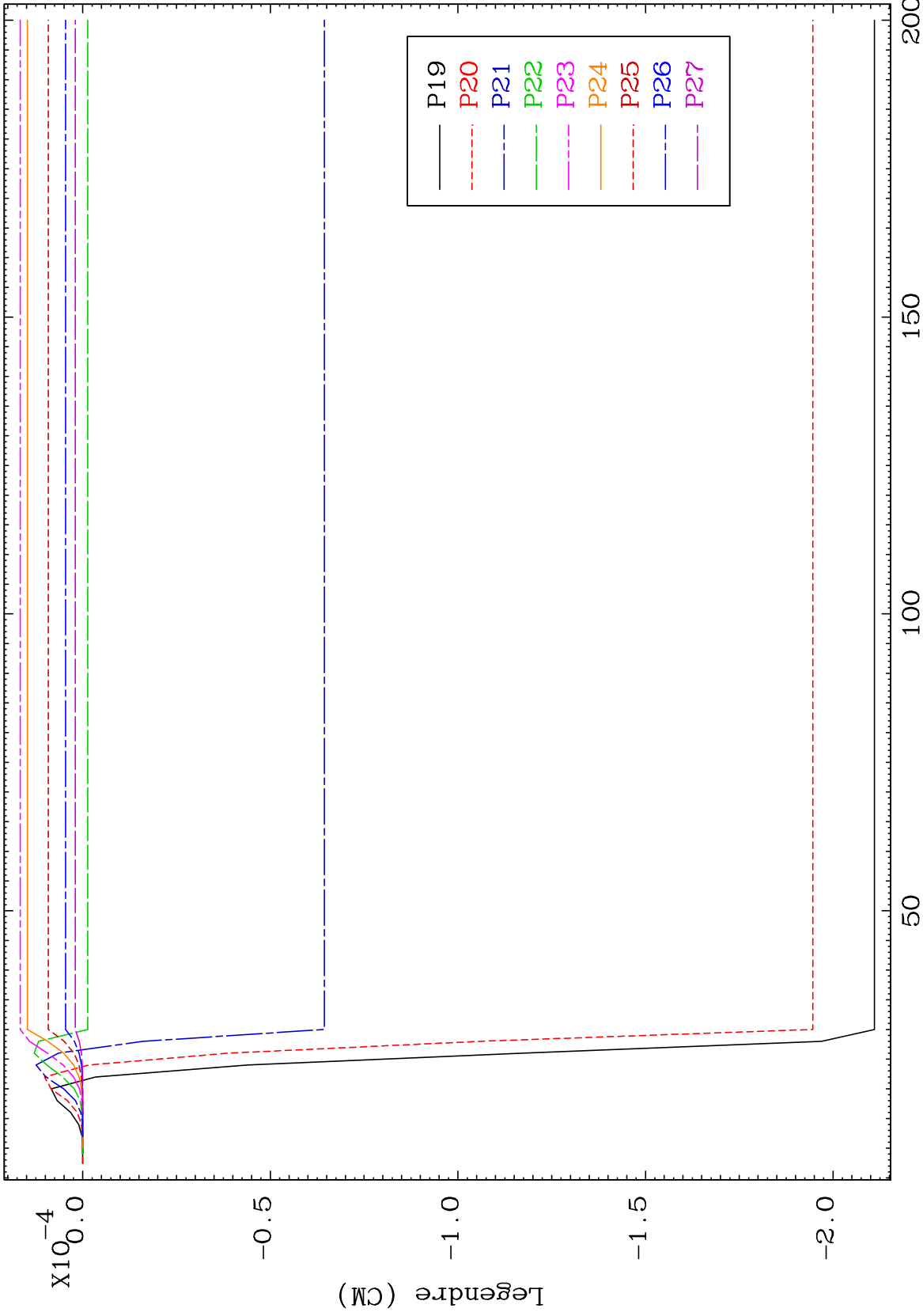
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154



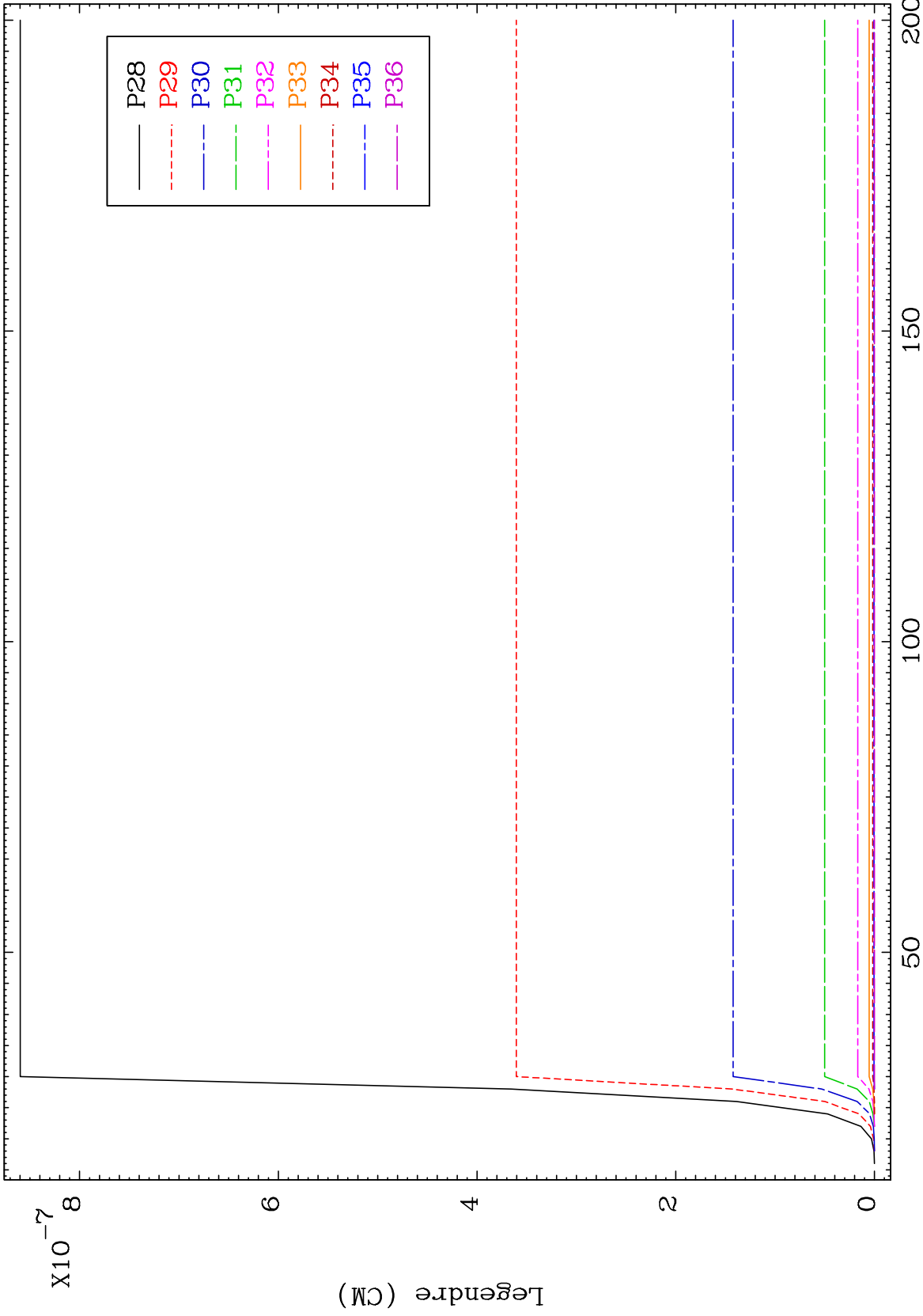
64-Gd-154

110

MAT 6431

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

64-Gd-154



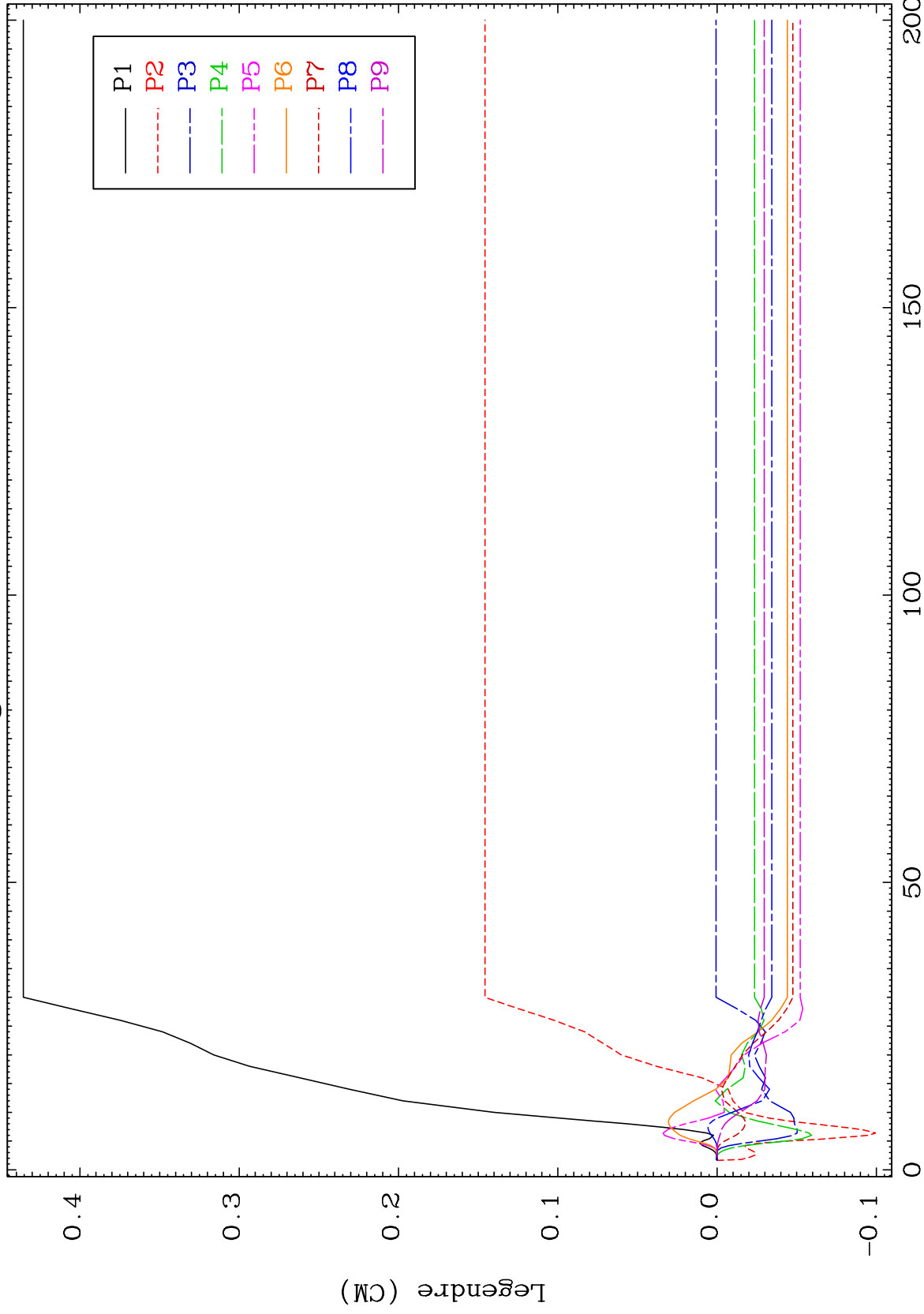
111

64-Gd-154

MAT 6431

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

64-Gd-154



112

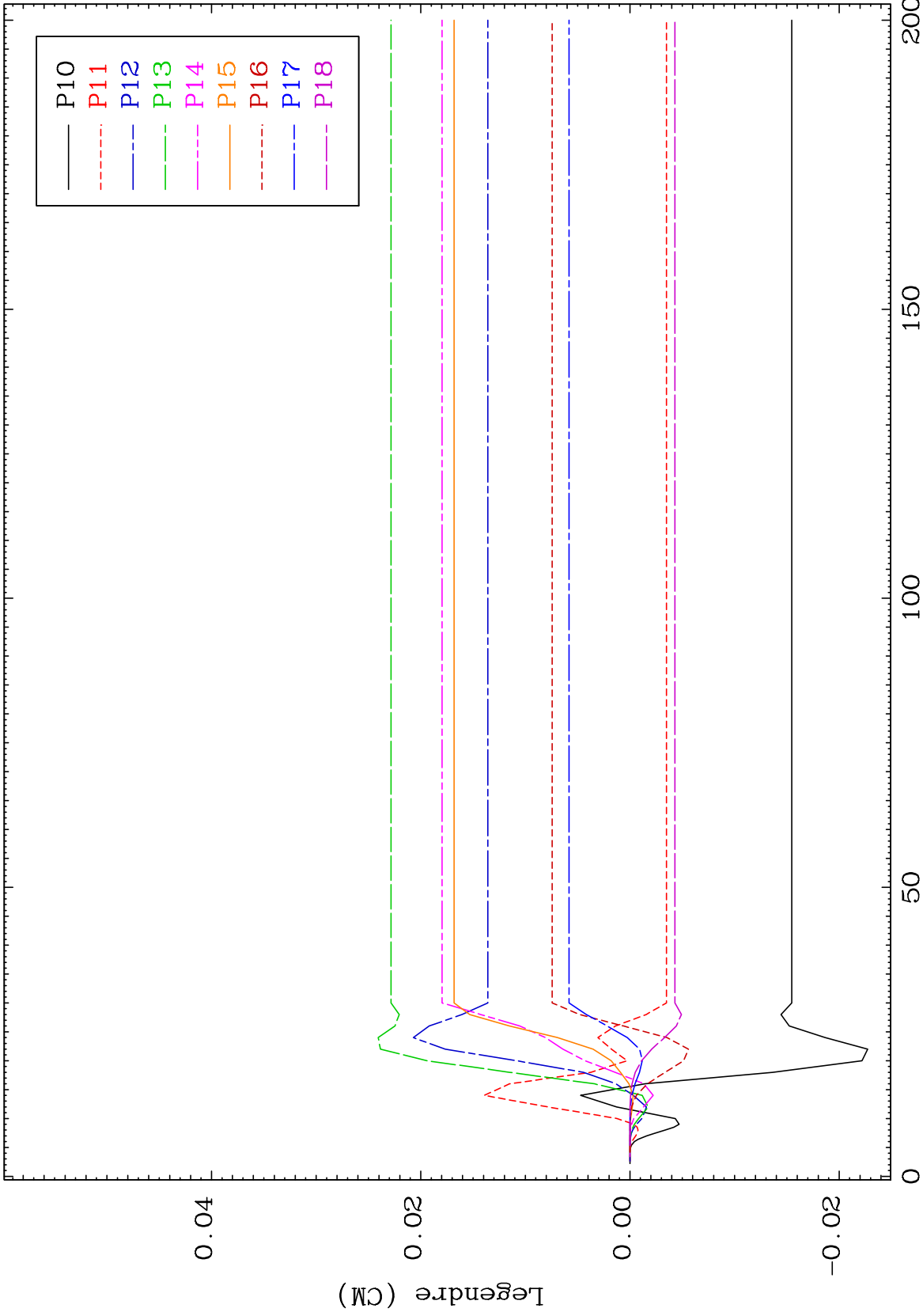
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154



113

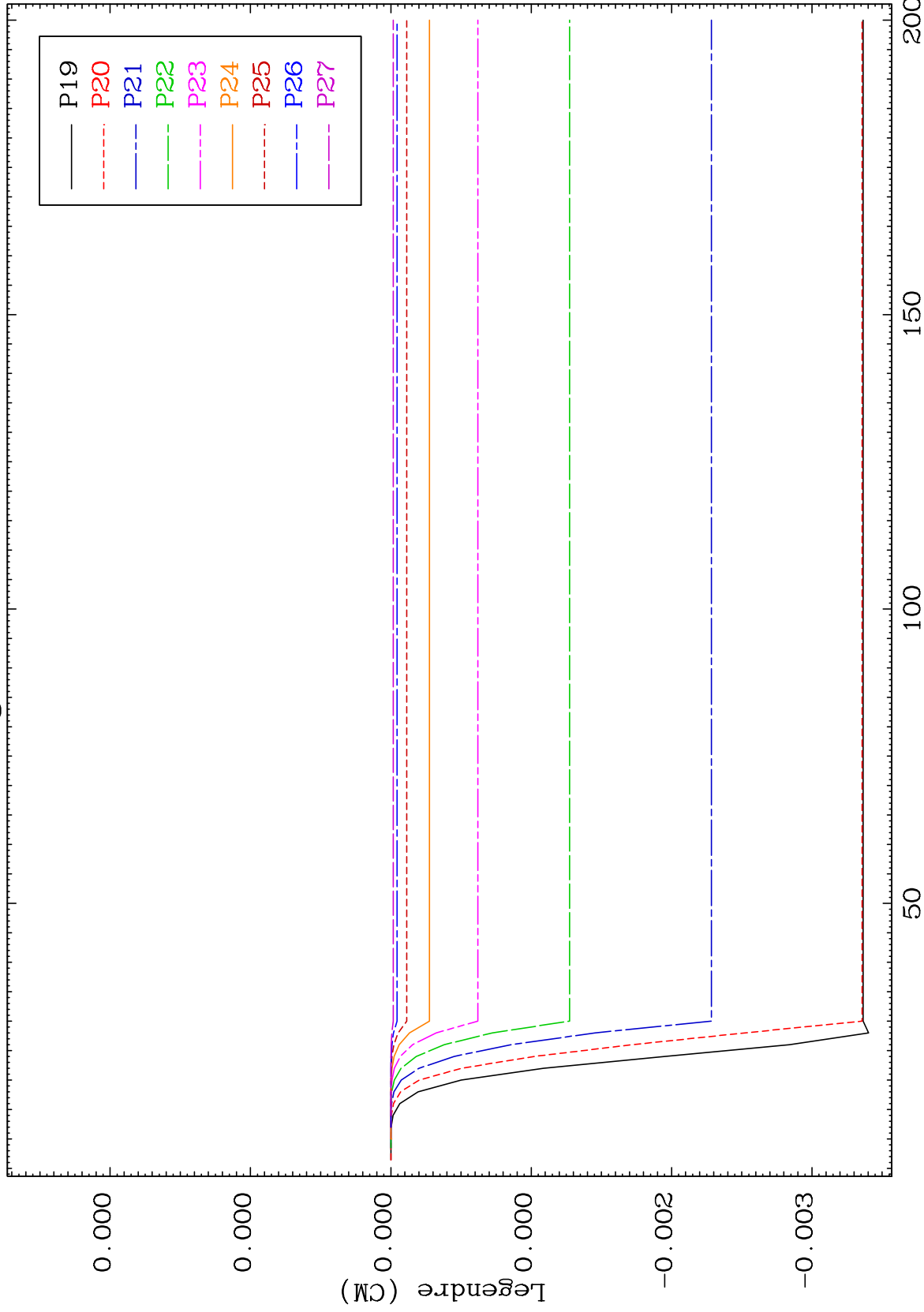
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154



114

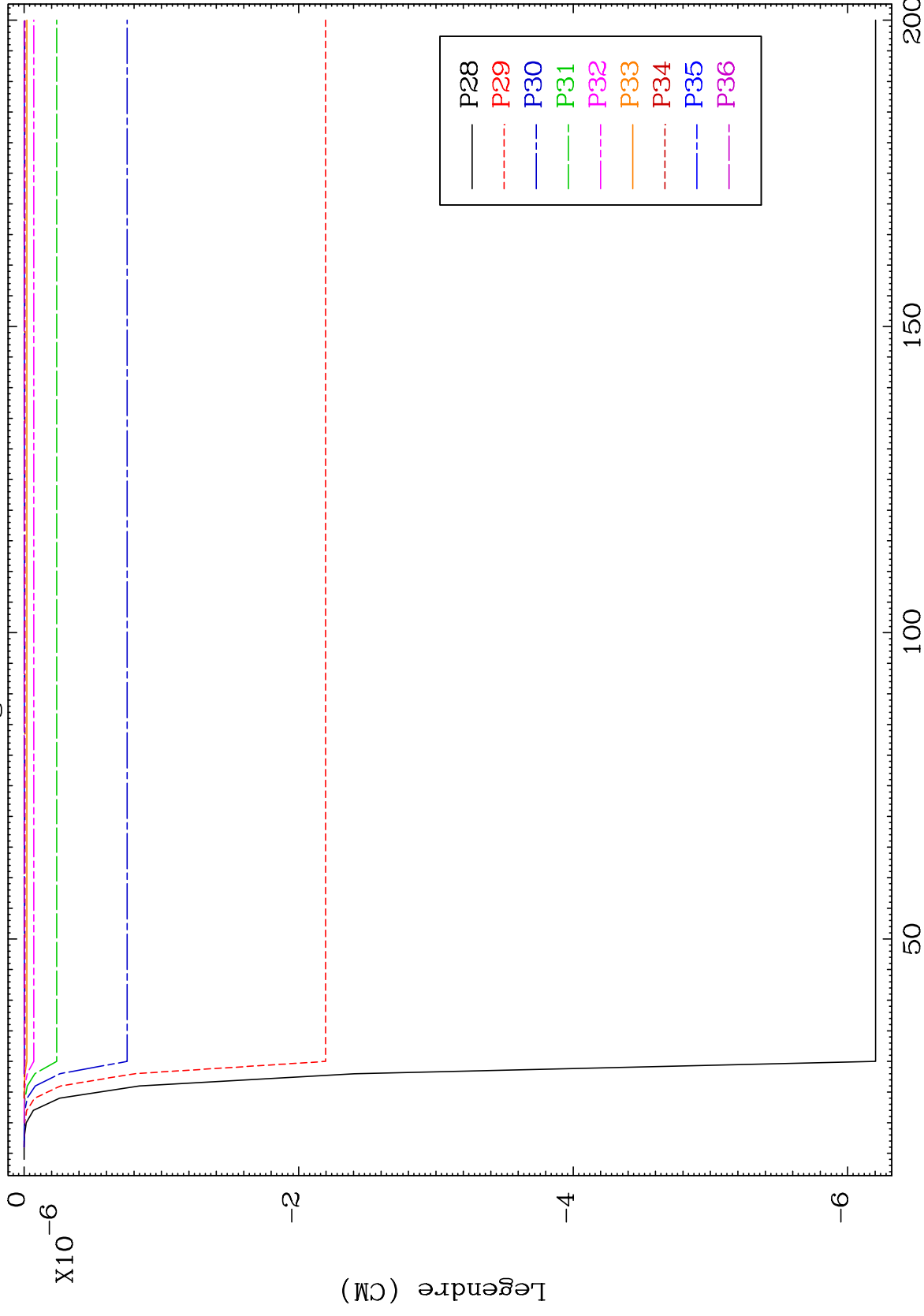
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154



64-Gd-154

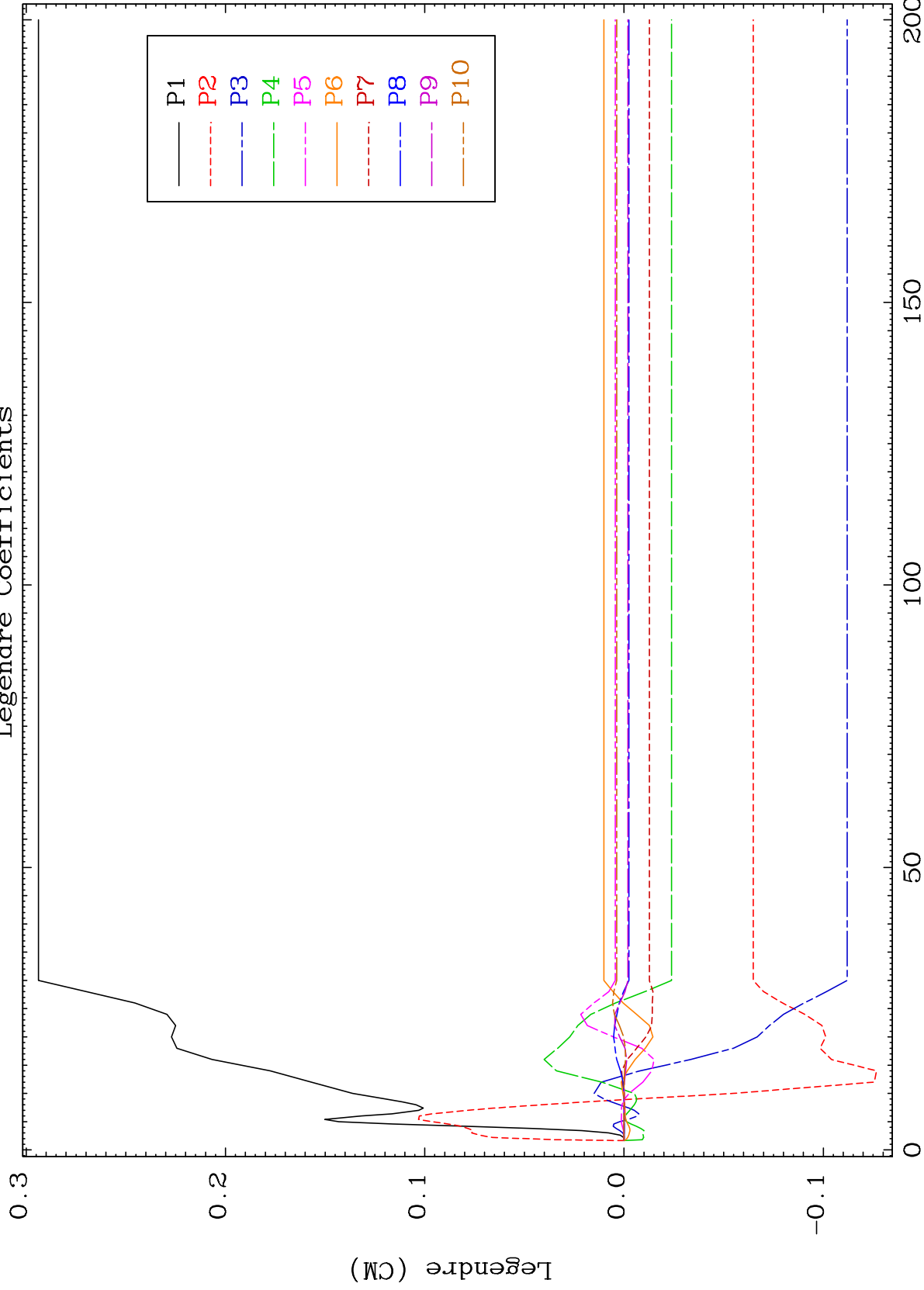
Incident Energy (MeV)

115

MAT 6431

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

64-Gd-154



116

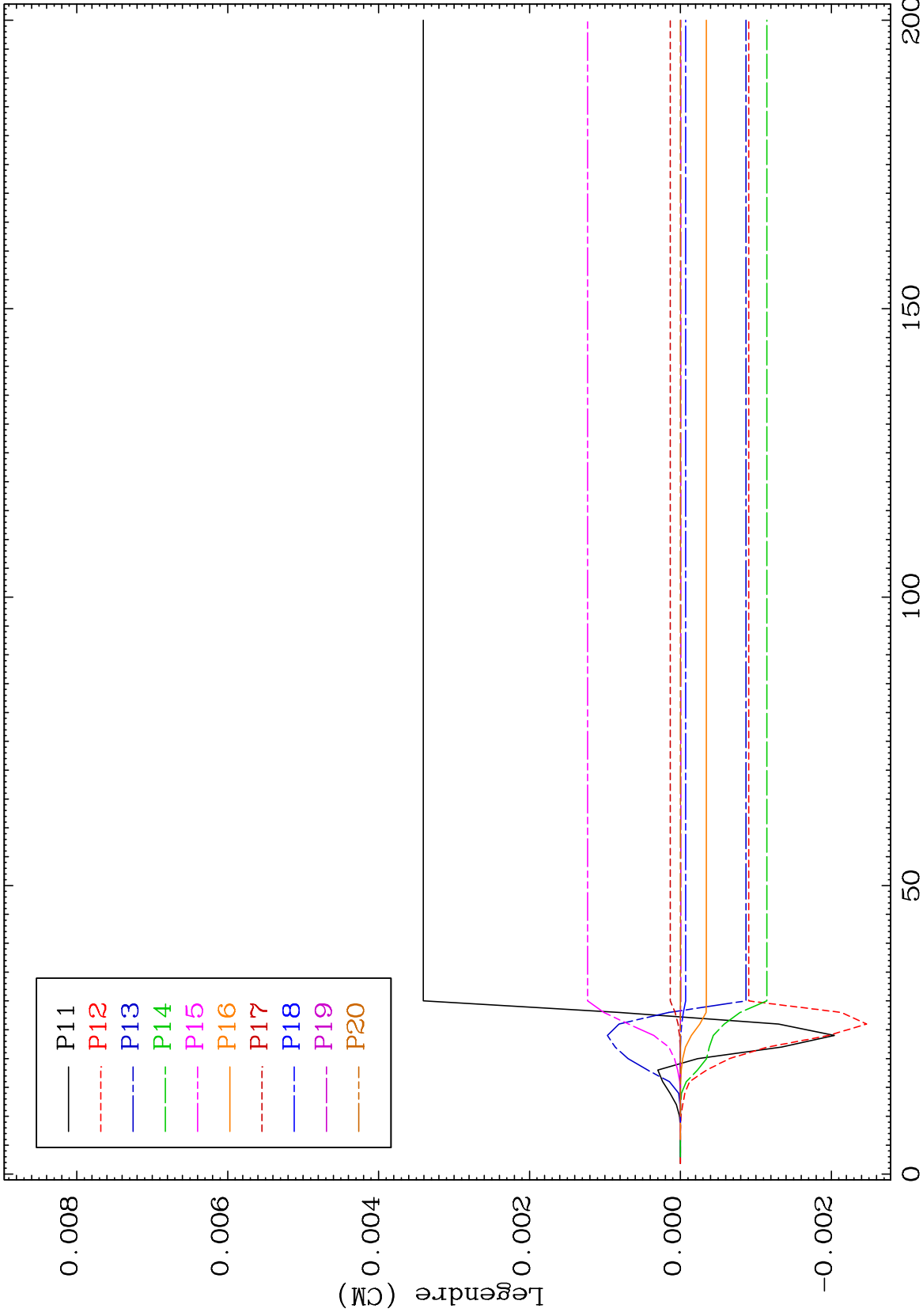
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154



117

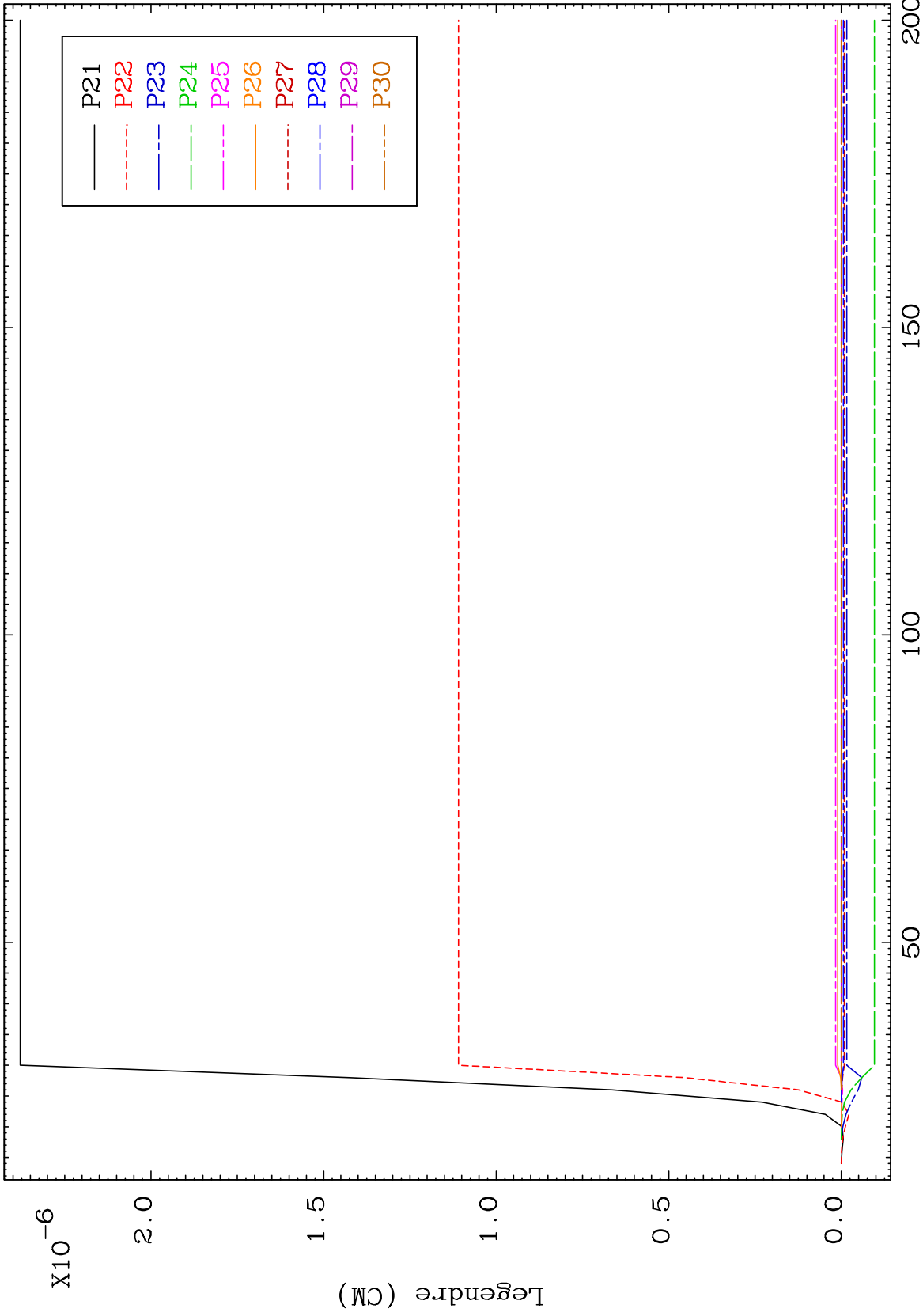
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

64-Gd-154



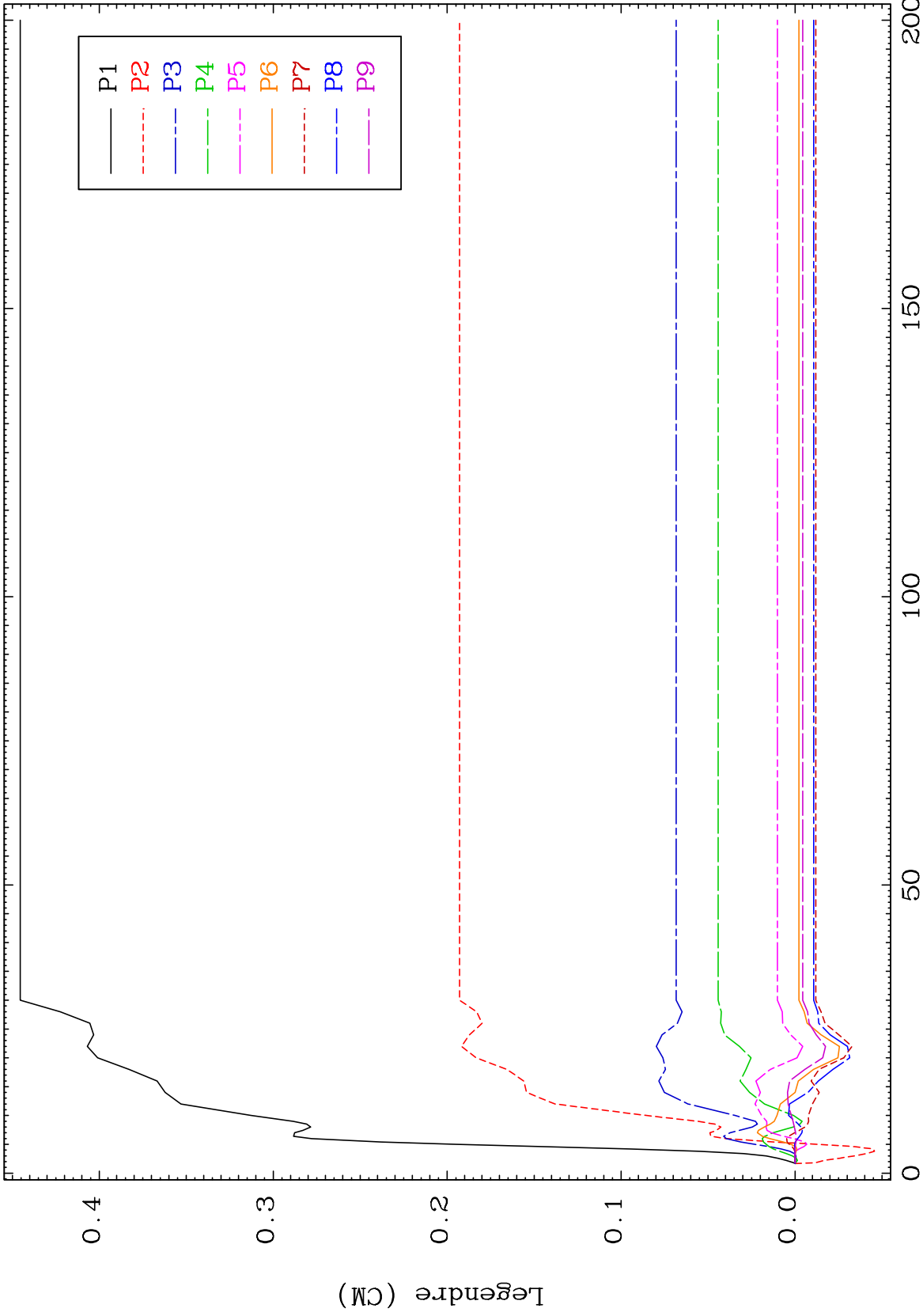
118

64-Gd-154

MAT 6431

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

64-Gd-154

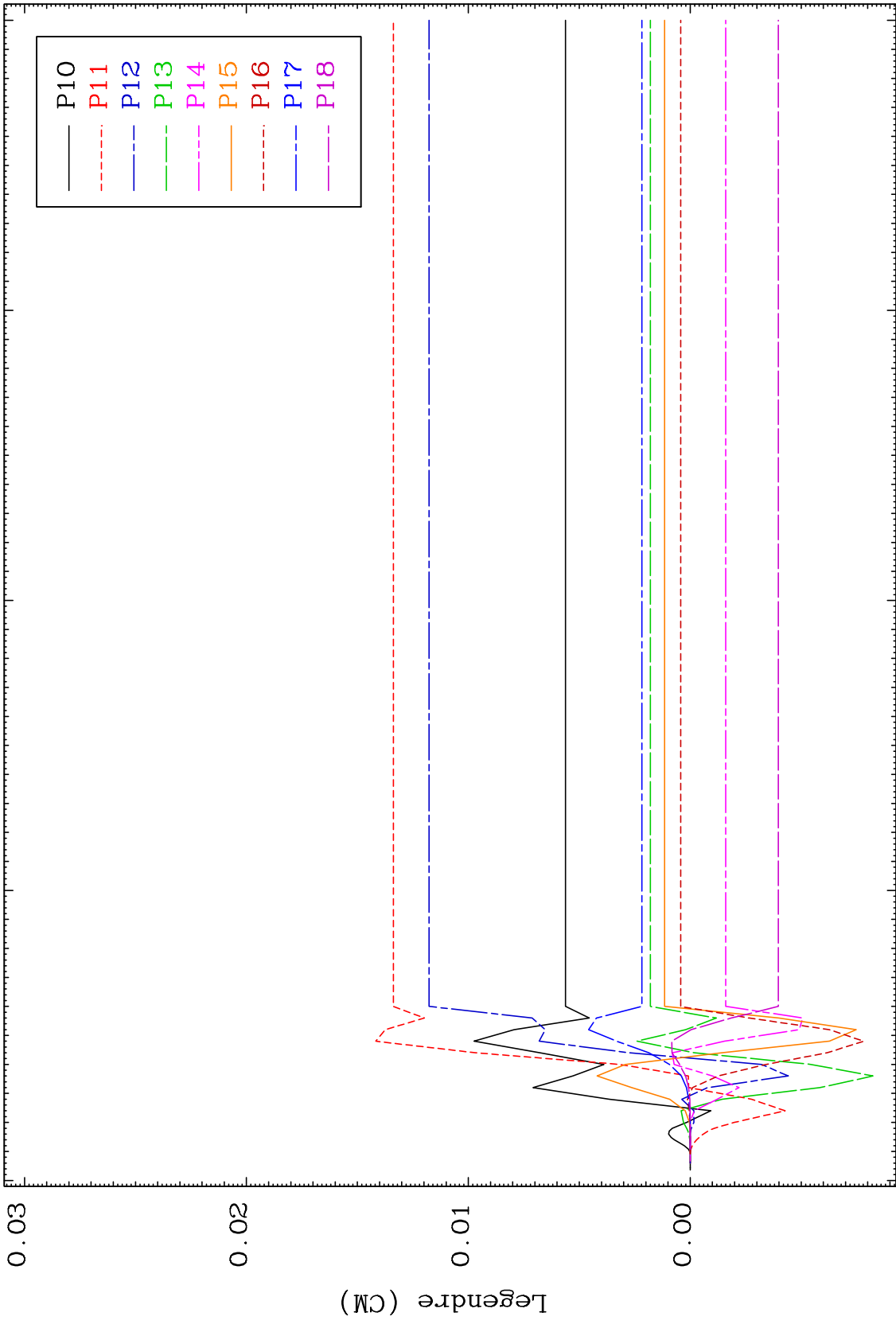


119

Incident Energy (MeV)

64-Gd-154

MAT 6431 MT= 78 (n,n') Level Legendre Coefficients 64-Gd-154

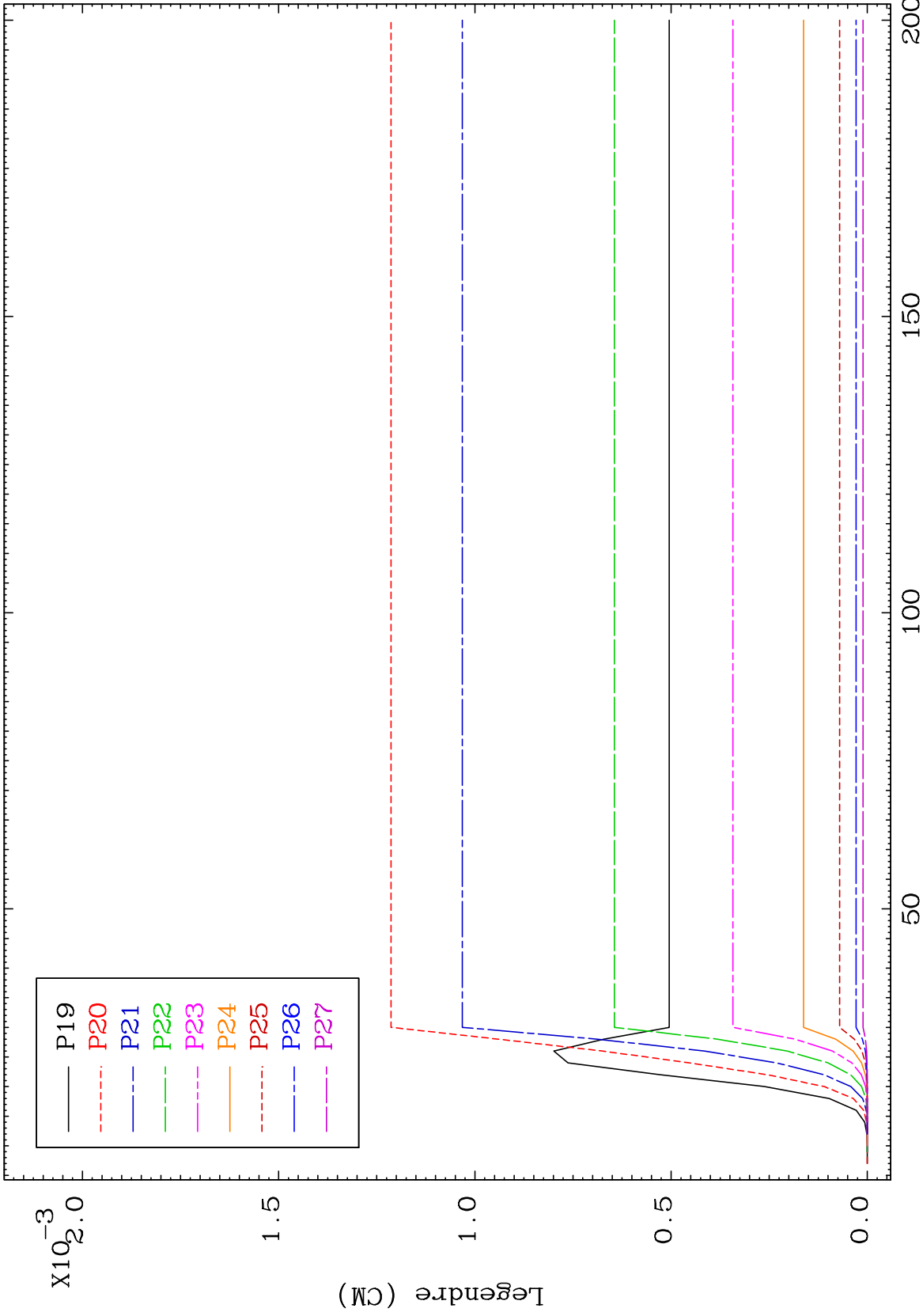


64-Gd-154

MAT 6431

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

64-Gd-154



121

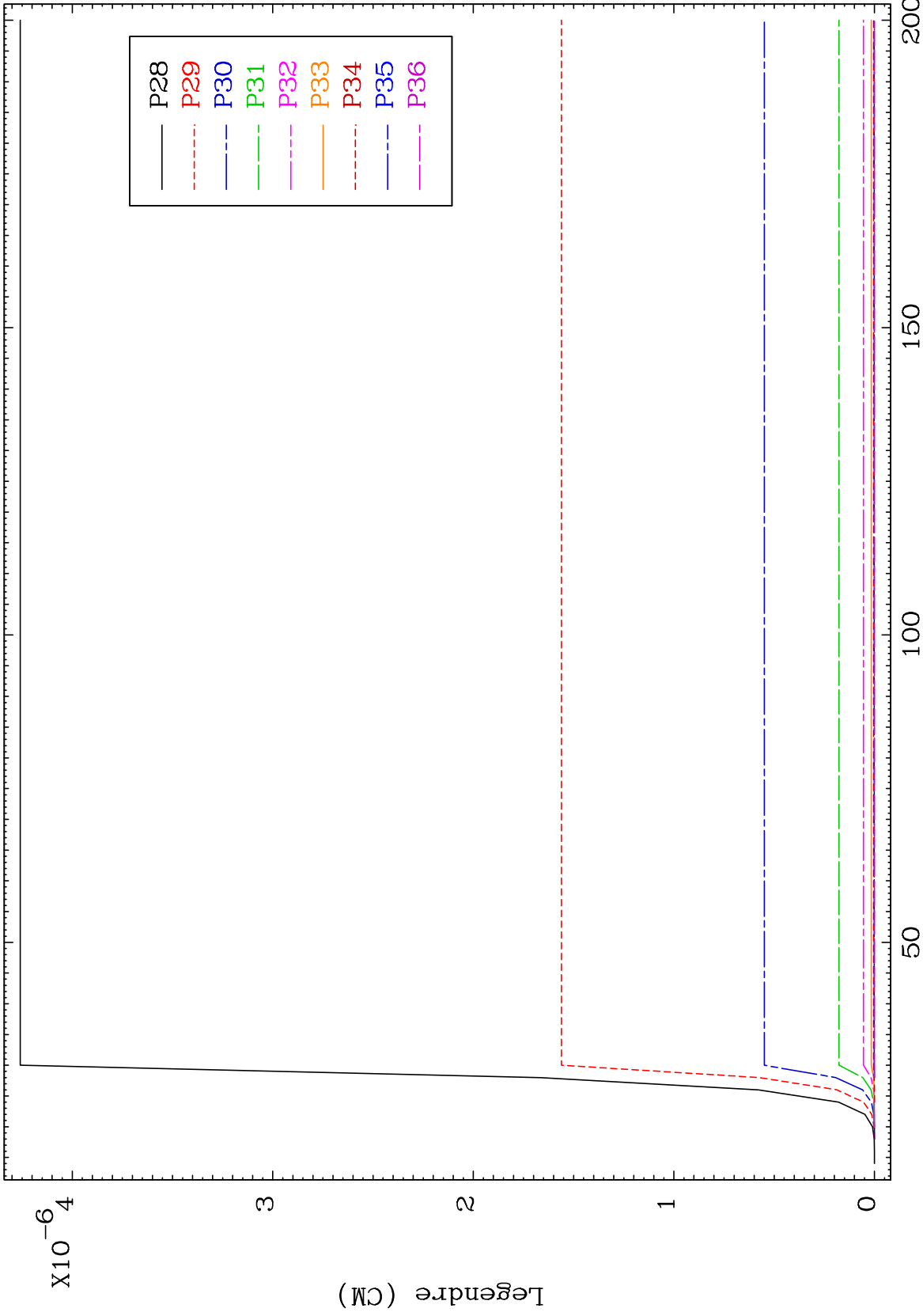
Incident Energy (MeV)

64-Gd-154

MAT 6431

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

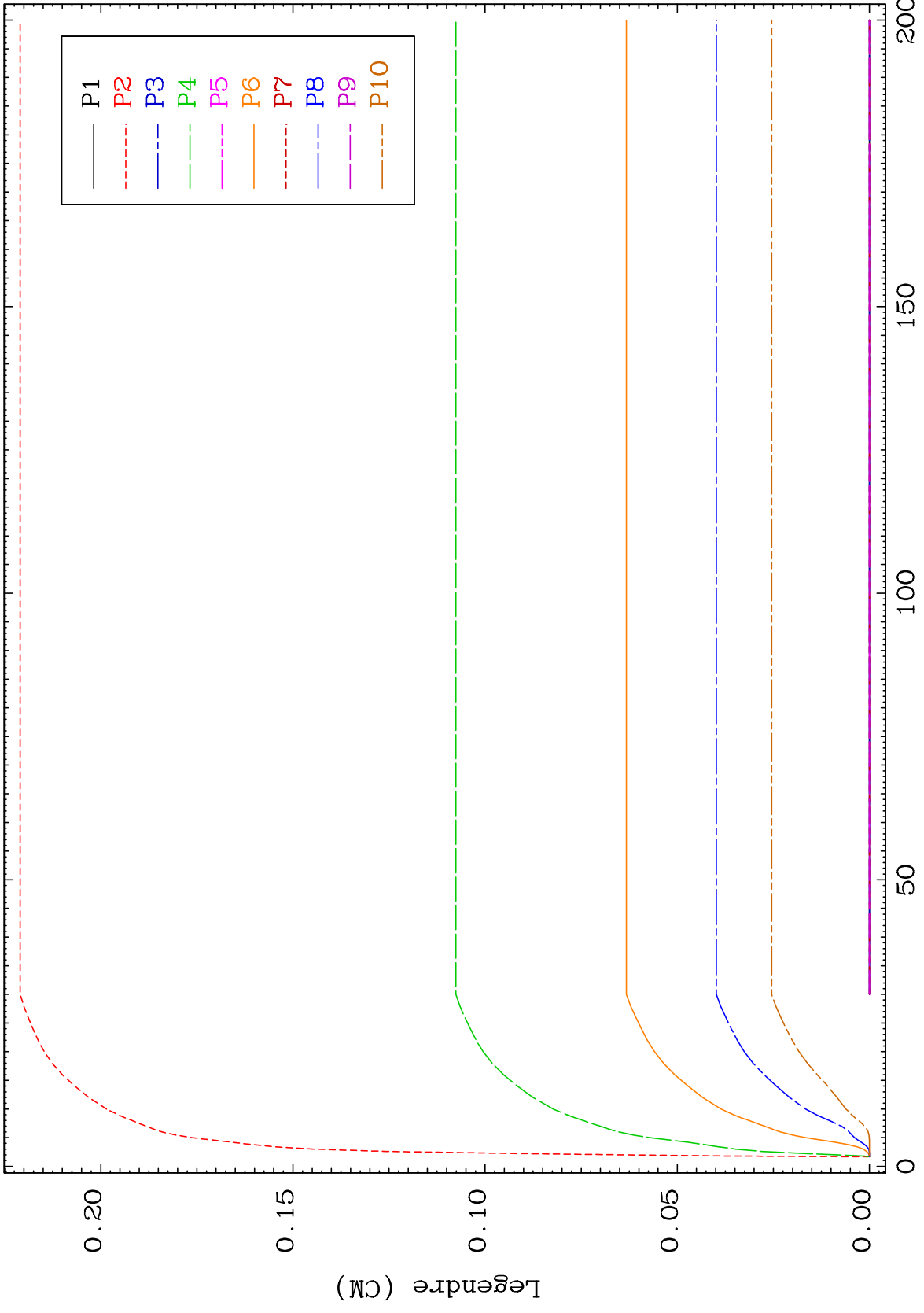
64-Gd-154



122

64-Gd-154

MAT 6431 MT= 79 (n,n') Level Legendre Coefficients 64-Gd-154

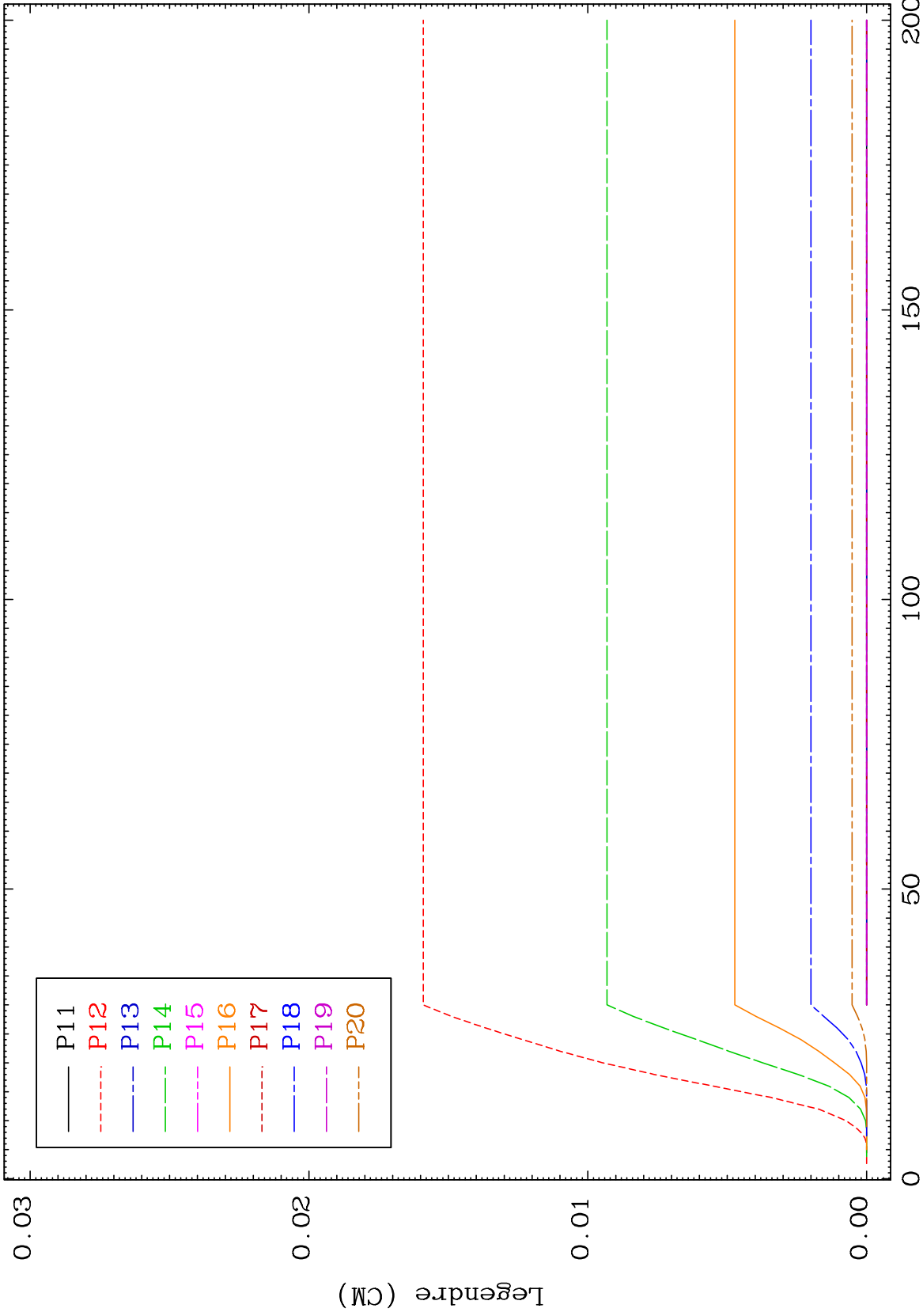


123 64-Gd-154

MAT 6431

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

64-Gd-154

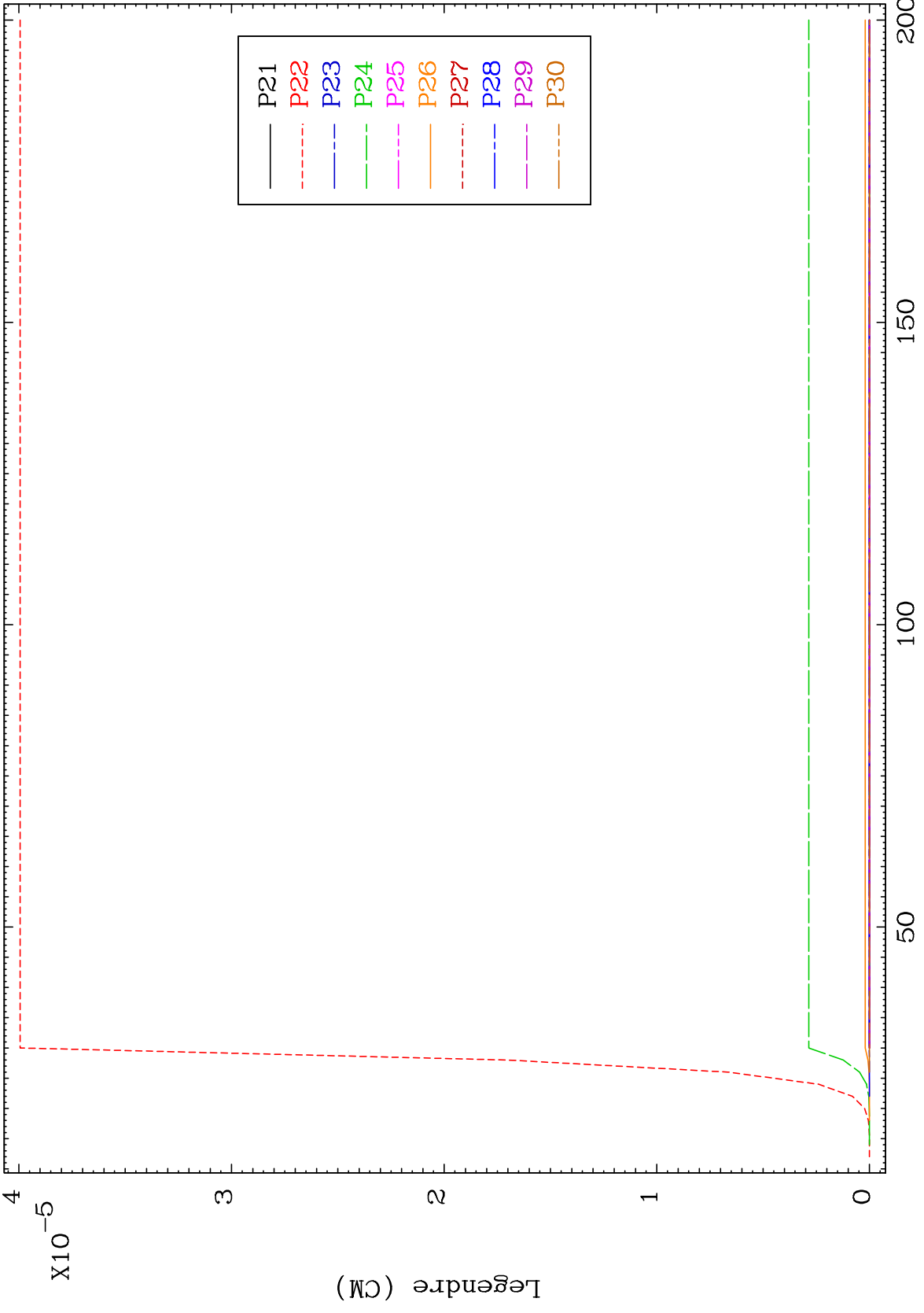


124

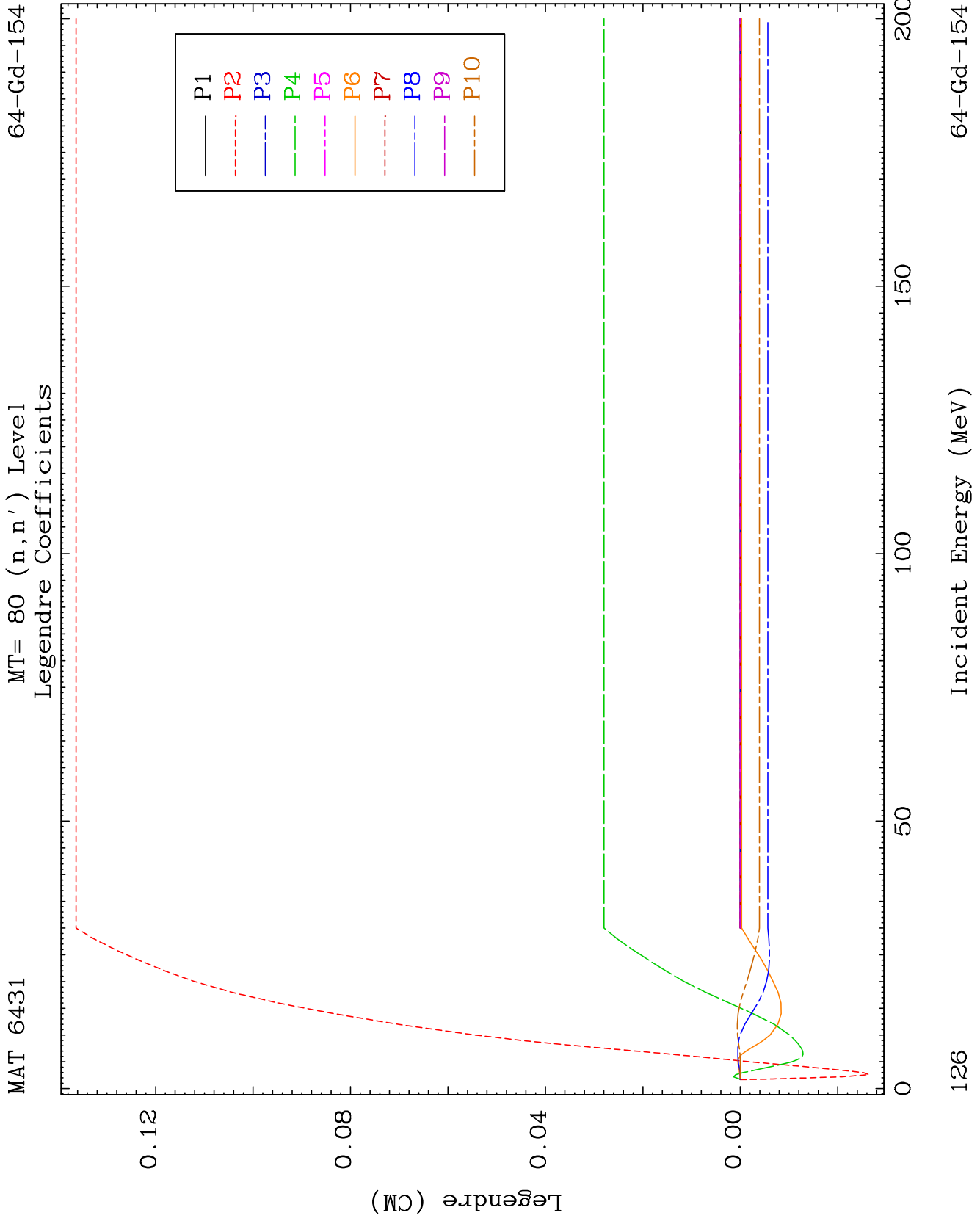
Incident Energy (MeV)

64-Gd-154

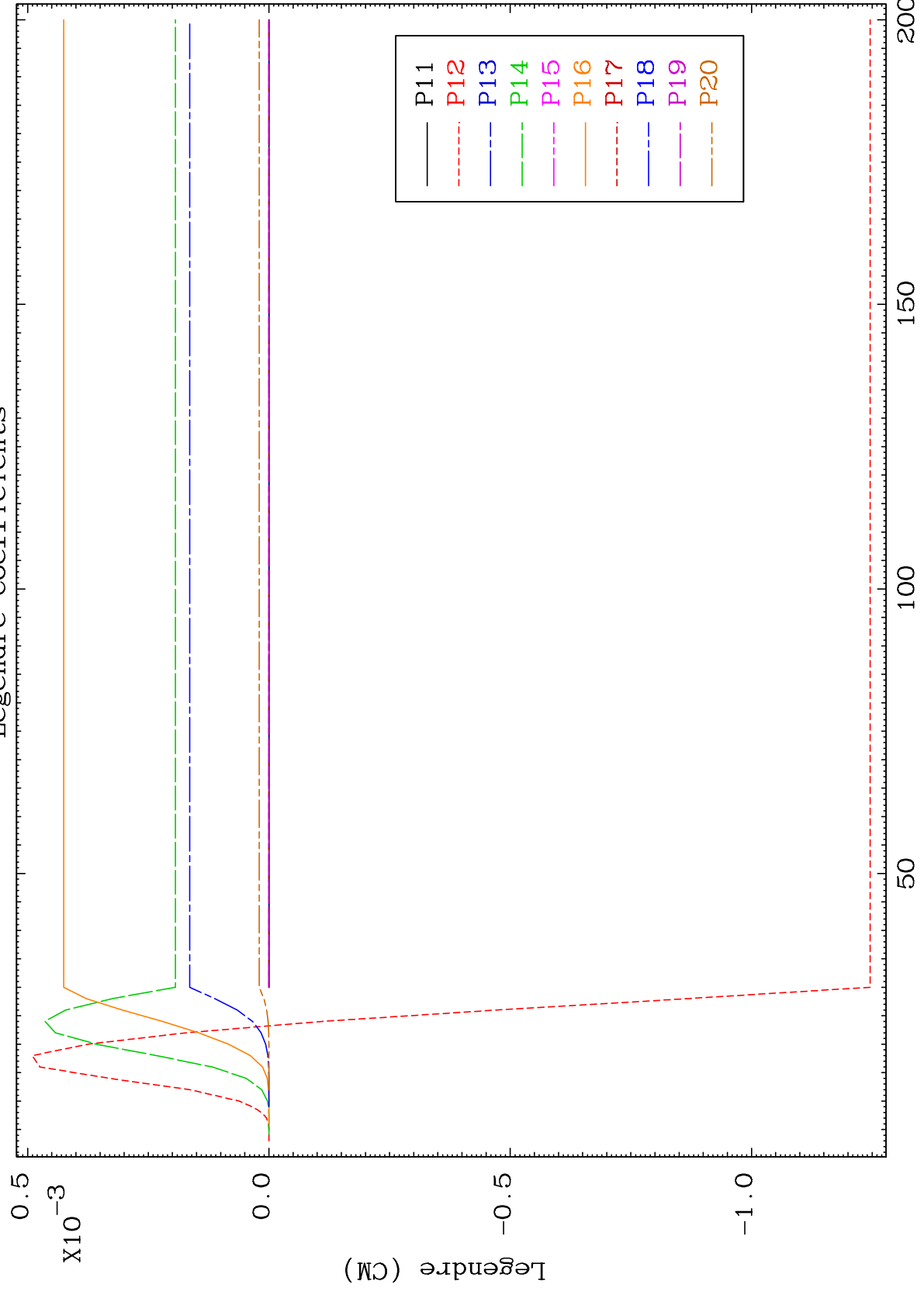
MAT 6431 MT= 79 (n,n') Level Legendre Coefficients 64-Gd-154



64-Gd-154

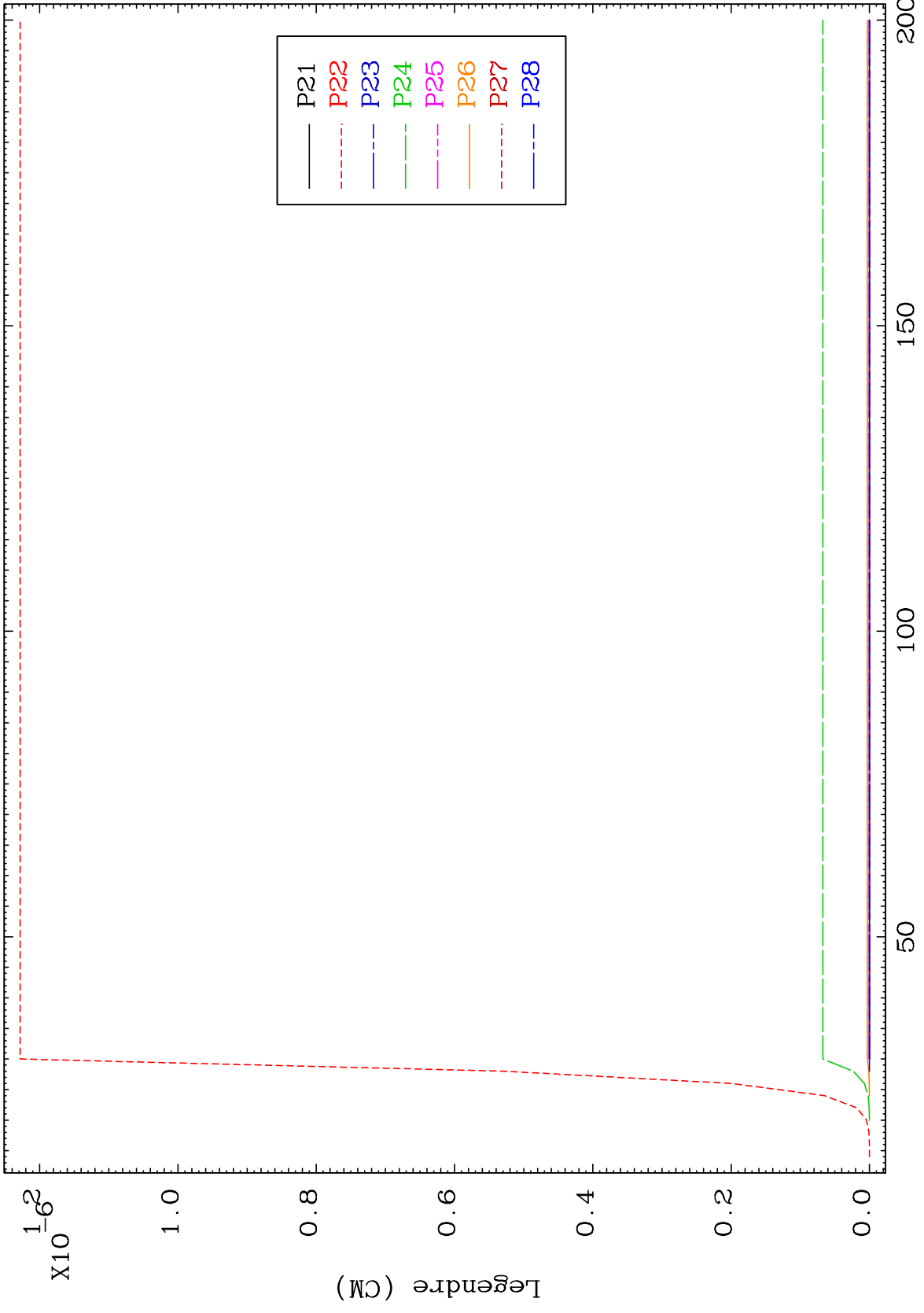


MAT 6431 MT= 80 (n,n') Level Legendre Coefficients 64-Gd-154



127 64-Gd-154

MAT 6431 MT= 80 (n,n') Level Legendre Coefficients 64-Gd-154



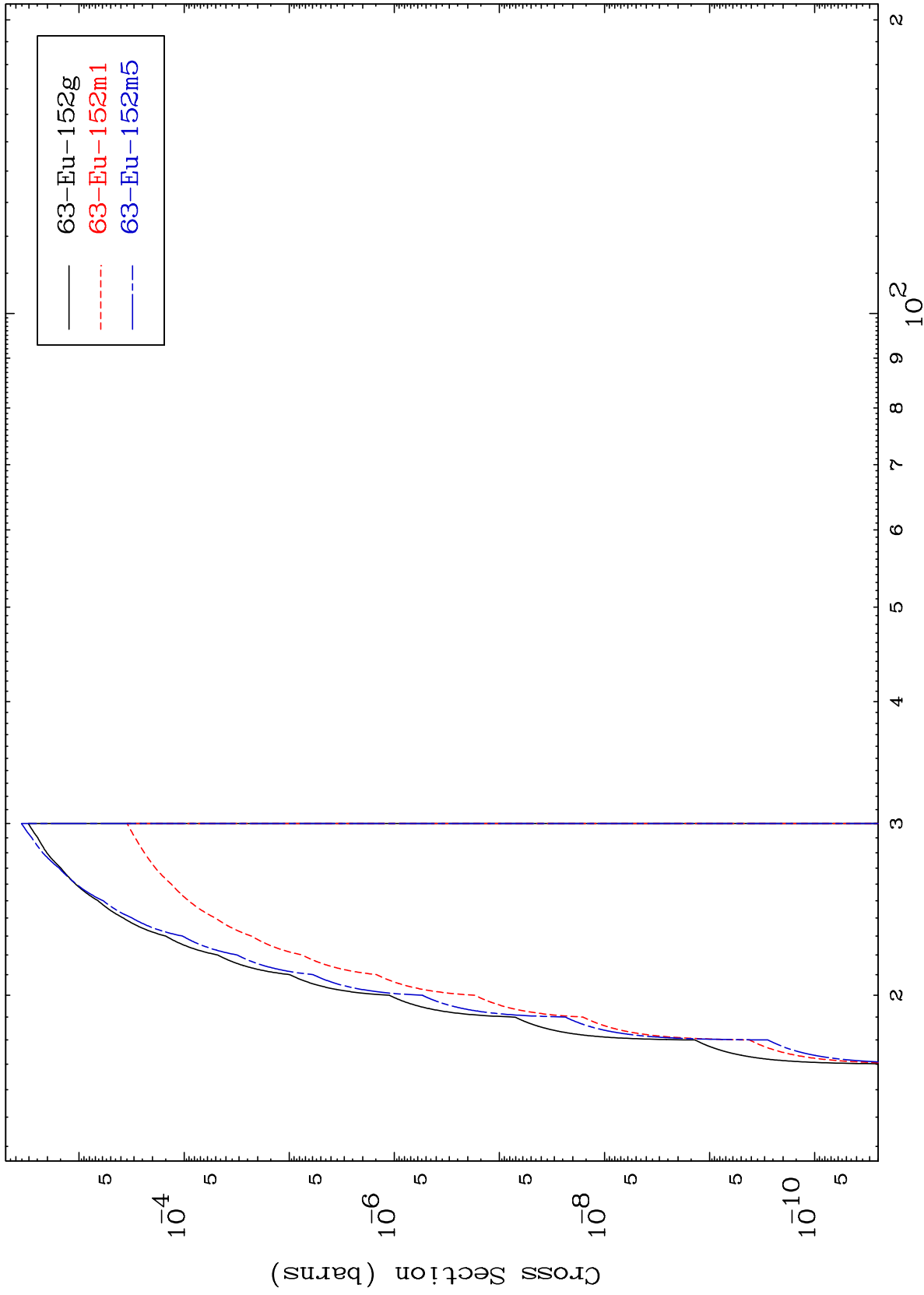
128 Incident Energy (MeV) 64-Gd-154

MAT 6431

(n,n') d

64-Gd-154

Radionuclide Production Cross Section



129

Incident Energy (MeV)

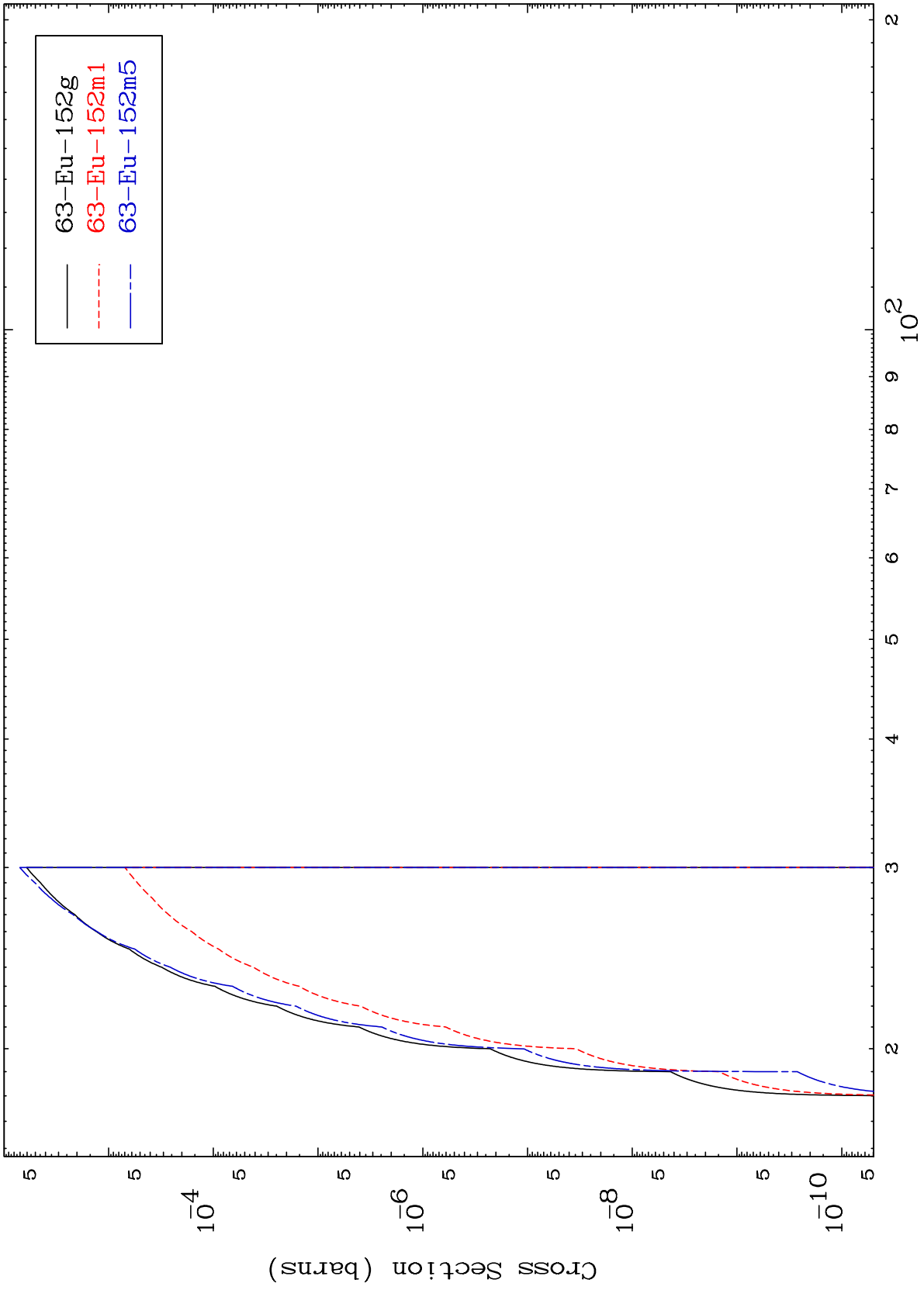
64-Gd-154

MAT 6431

(n,2n) p

64-Gd-154

Radionuclide Production Cross Section



130

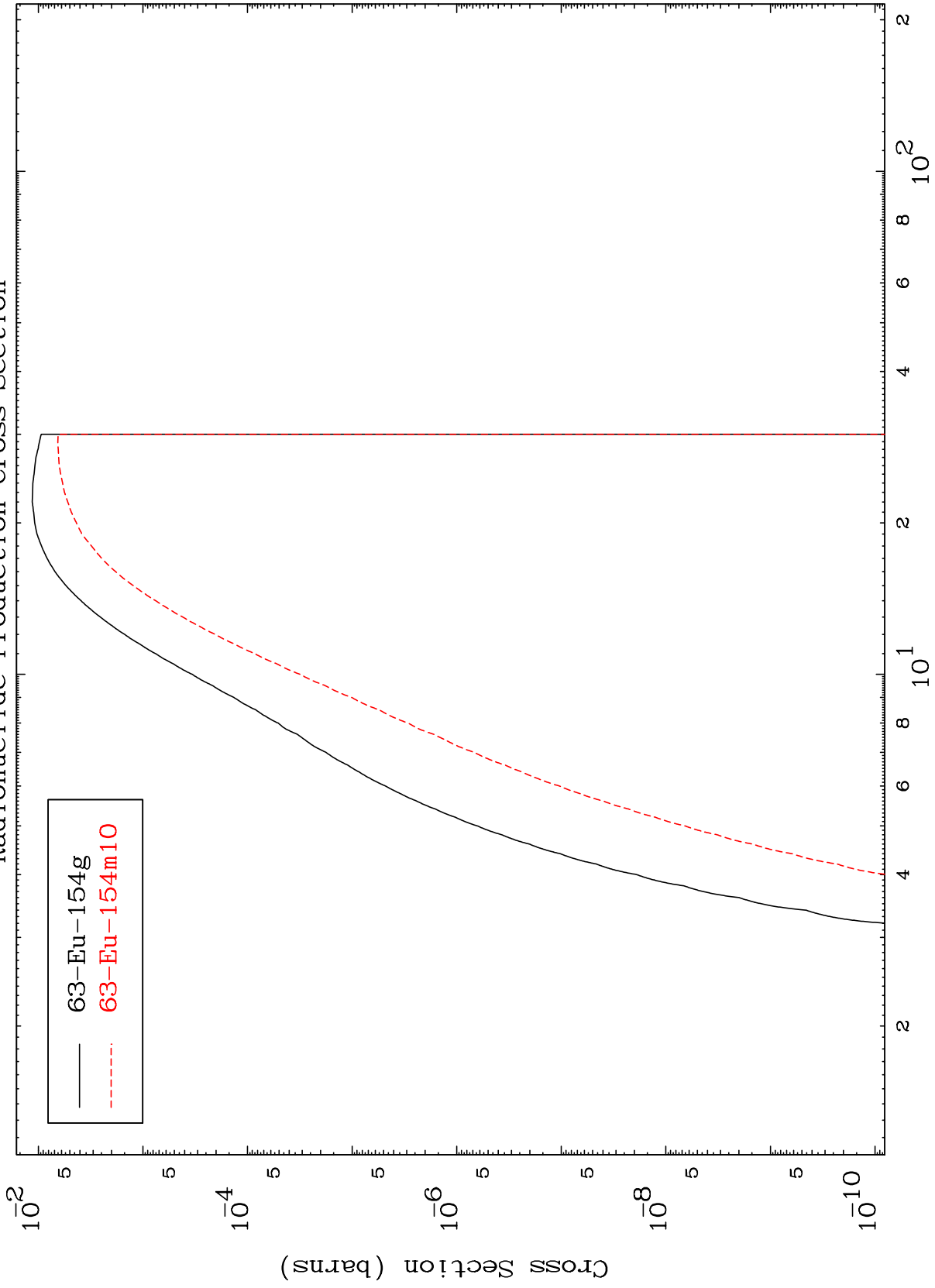
Incident Energy (MeV)

64-Gd-154

MAT 6431

64-Gd-154

Radionuclide Production Cross Section (n,p)



131

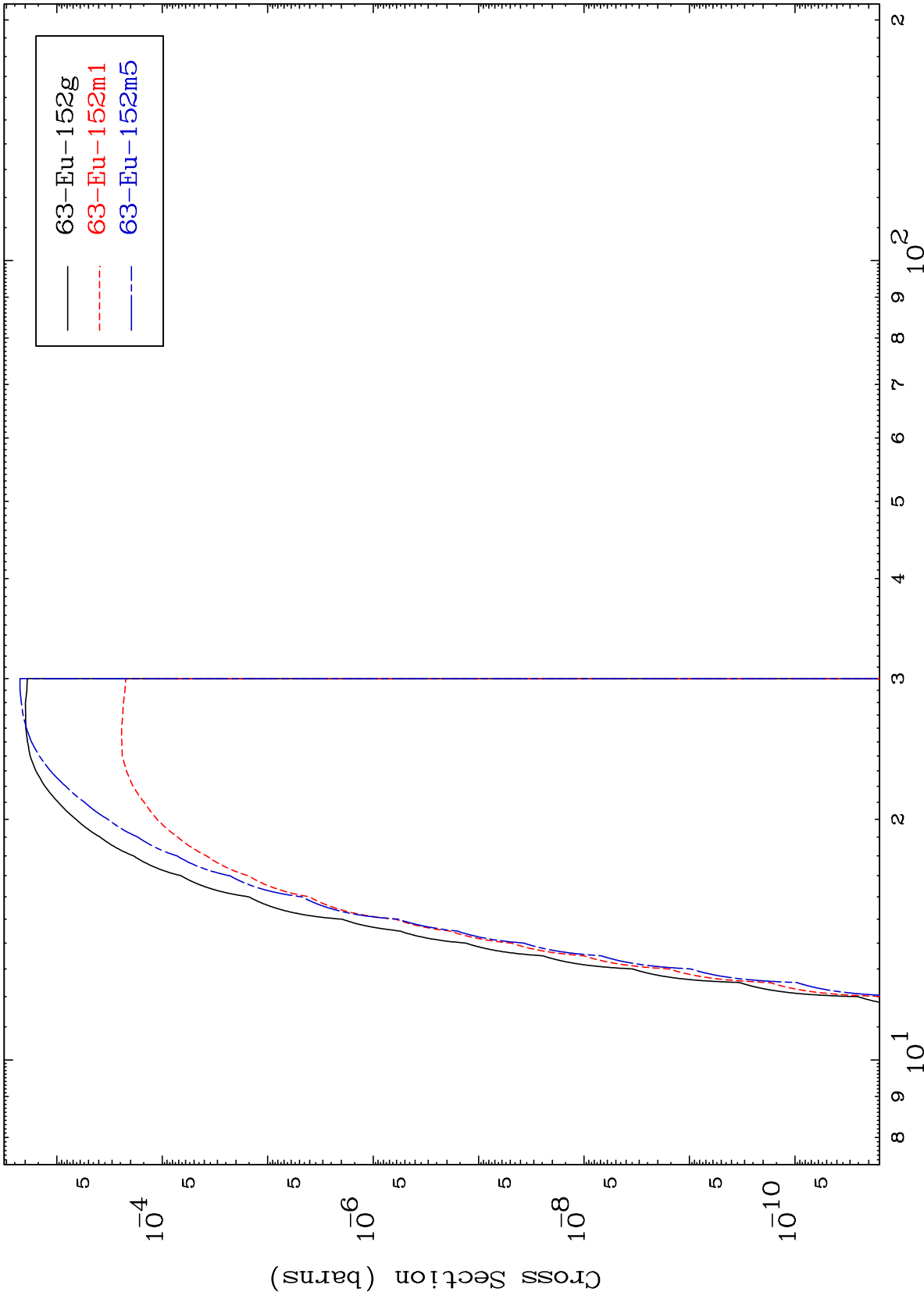
Incident Energy (MeV)

64-Gd-154

MAT 6431

64-Gd-154

(n, t)
Radionuclide Production Cross Section



132

Incident Energy (MeV)

64-Gd-154