

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

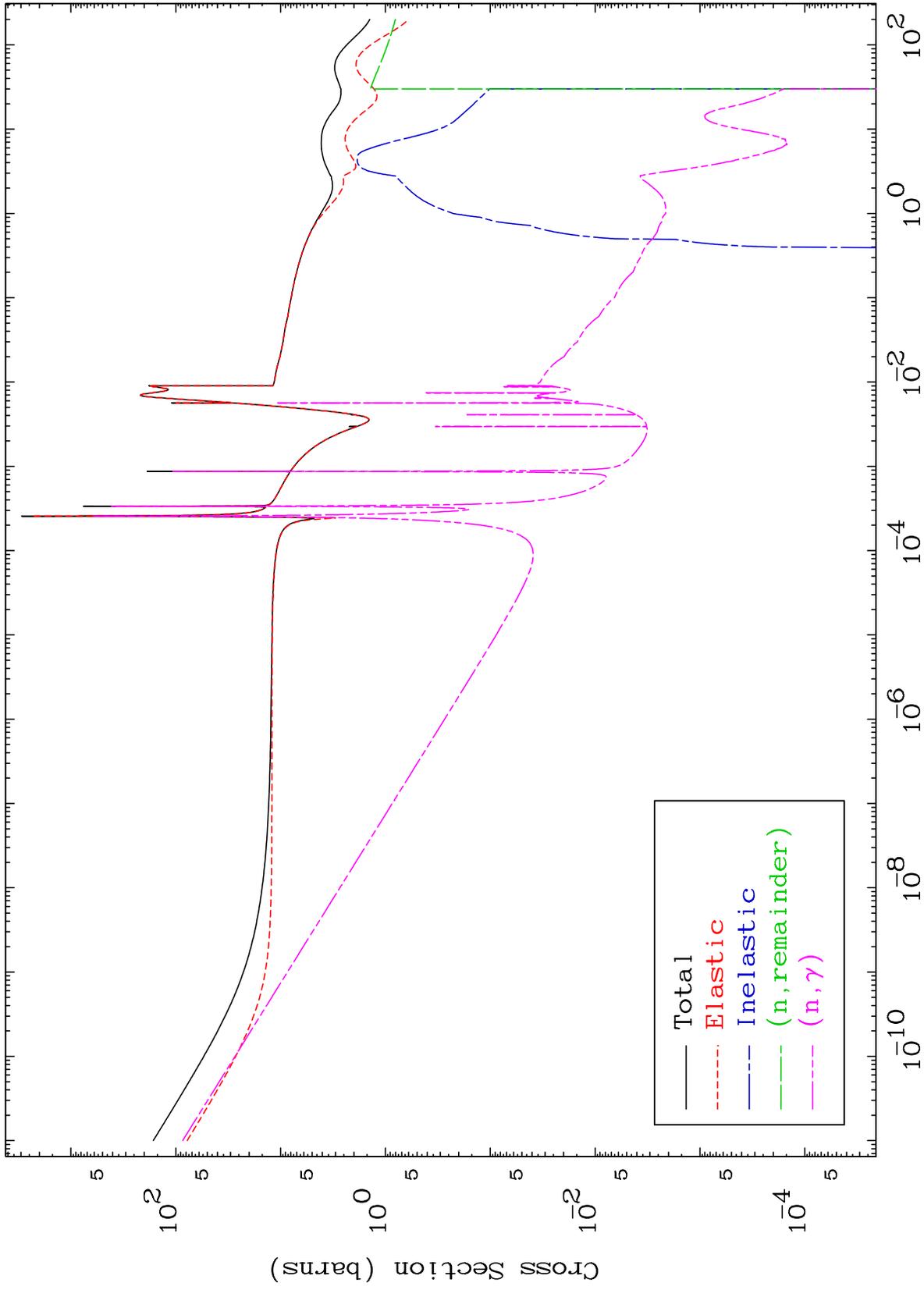
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 3158

Major
293 Kelvin Cross Sections

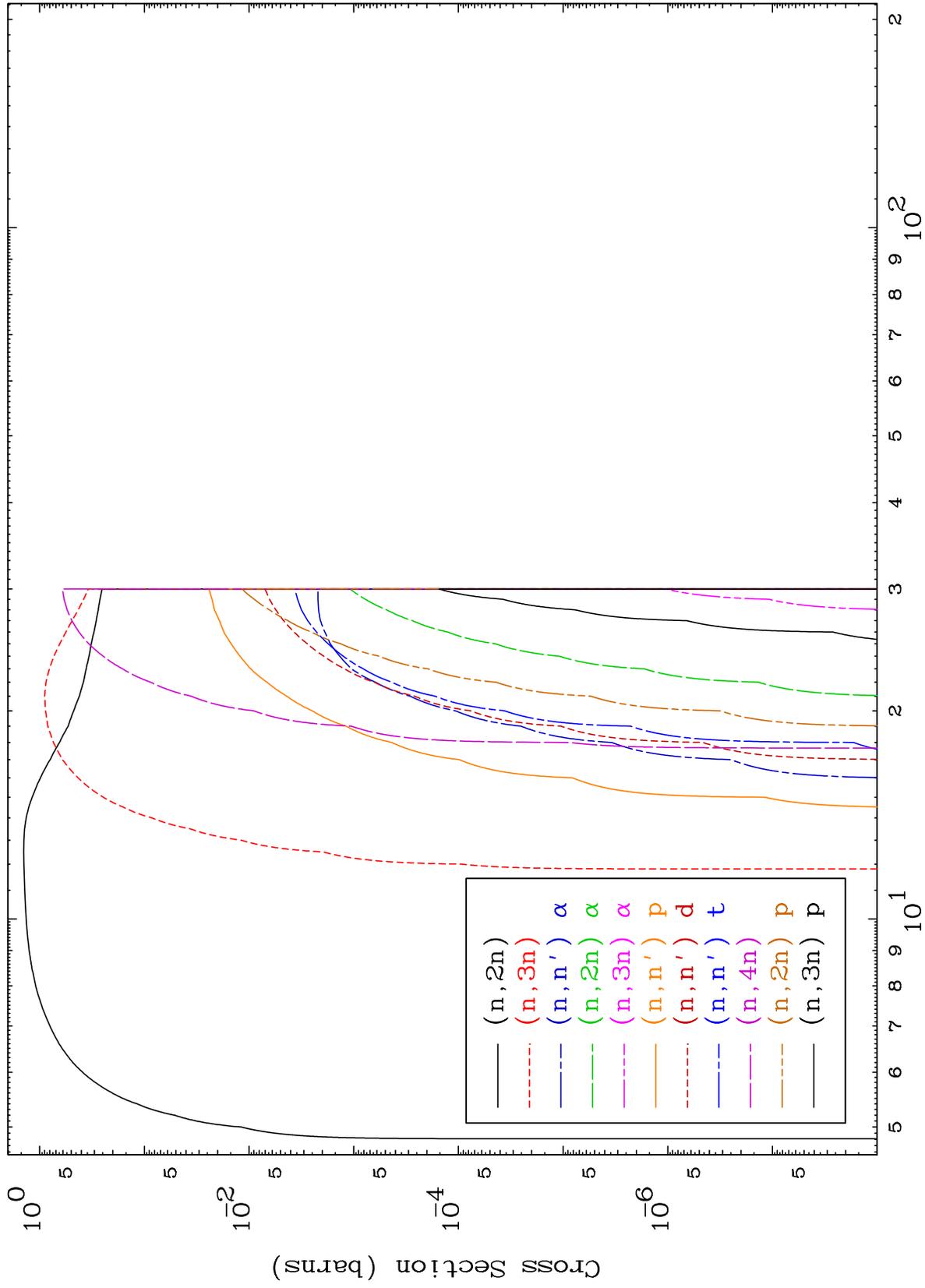
31-Ga-80



MAT 3158

Neutron Production
293 Kelvin Cross Sections

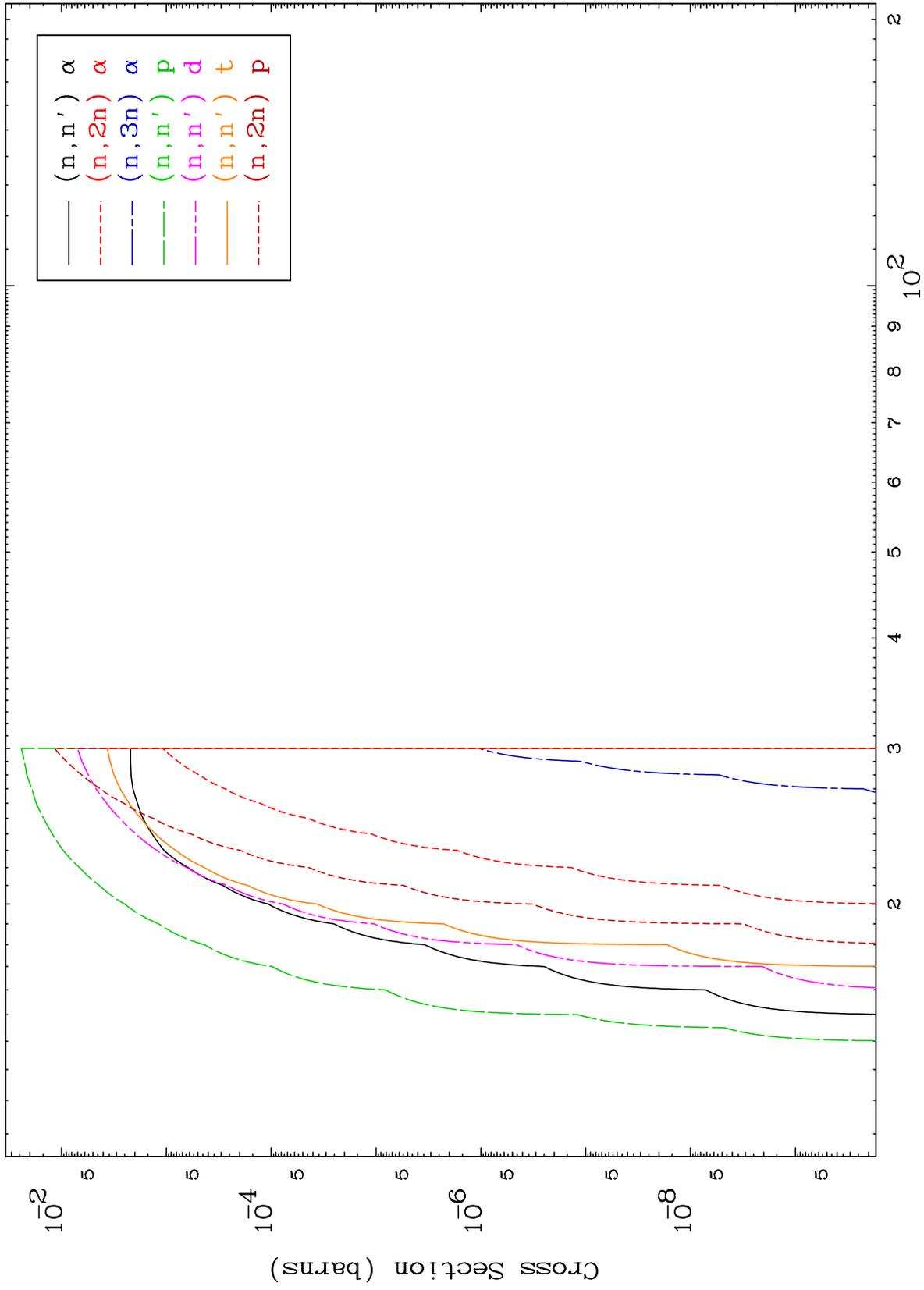
31-Ga-80



2

Incident Energy (MeV)

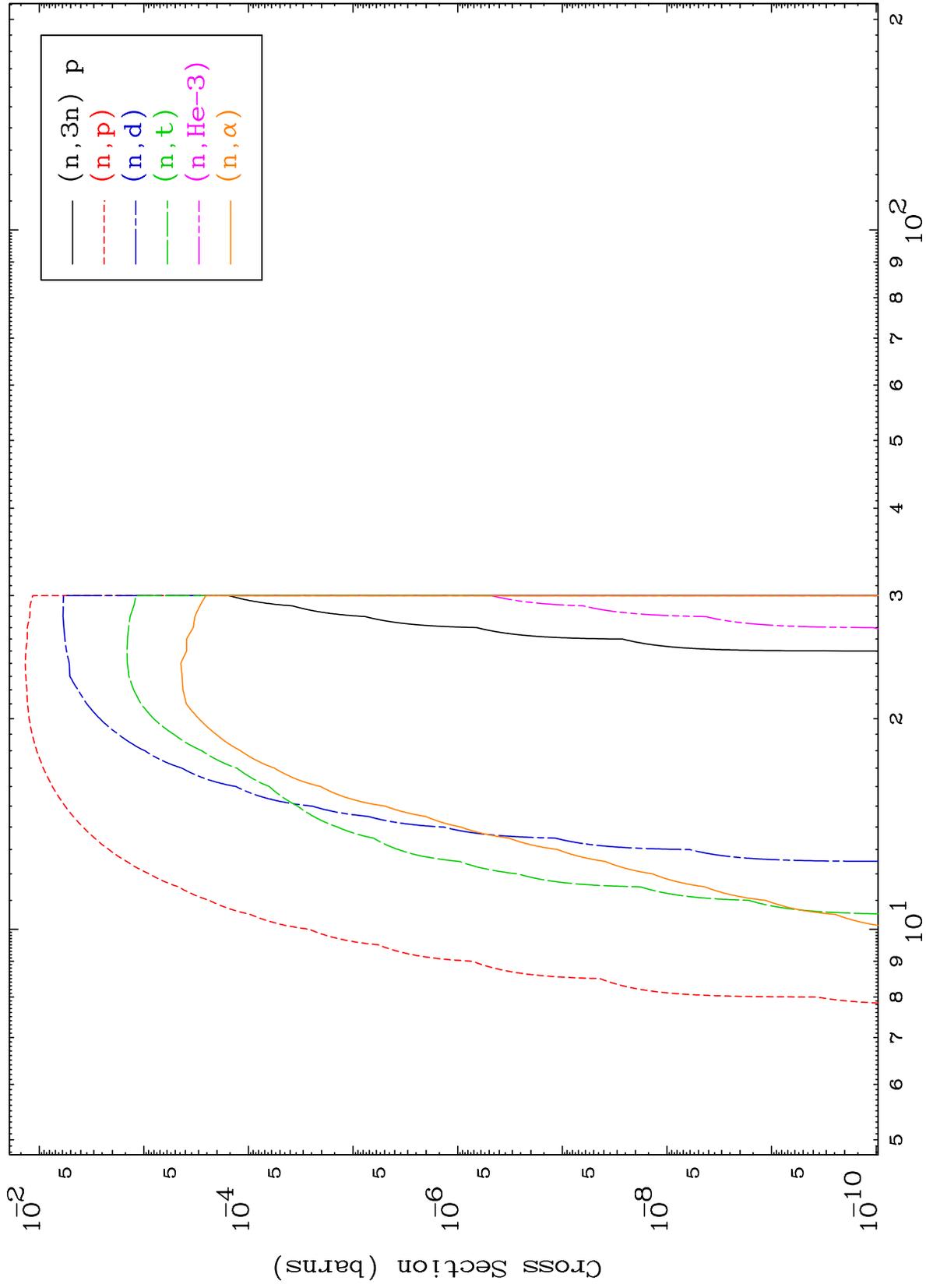
31-Ga-80



MAT 3158

Charged Particle
293 Kelvin Cross Sections

31-Ga-80



4

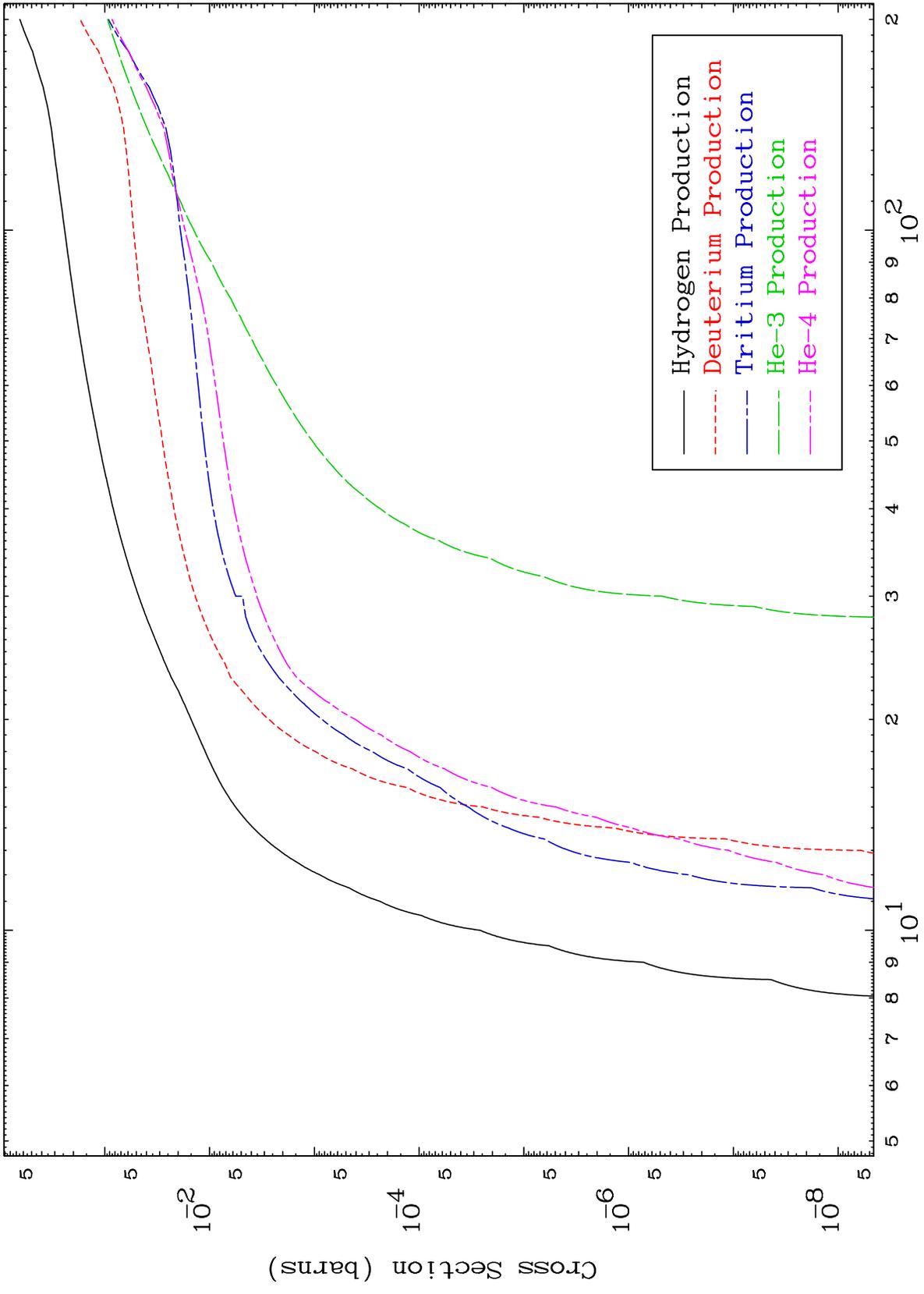
Incident Energy (MeV)

31-Ga-80

MAT 3158

Particle Production
293 Kelvin Cross Sections

31-Ga-80



5

Incident Energy (MeV)

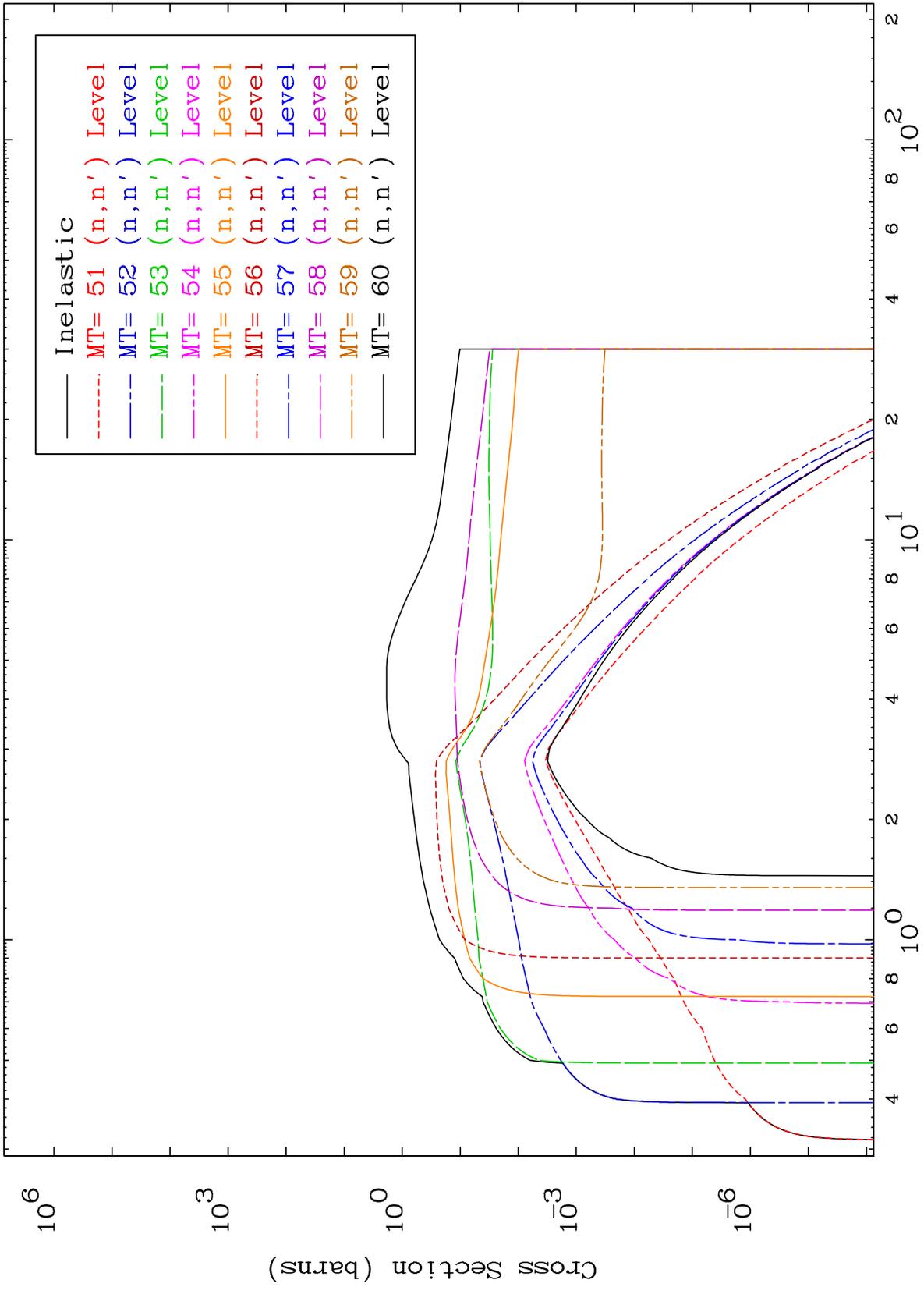
31-Ga-80

MAT 3158

(n,n') Level

31-Ga-80

293 Kelvin Cross Sections



6

Incident Energy (MeV)

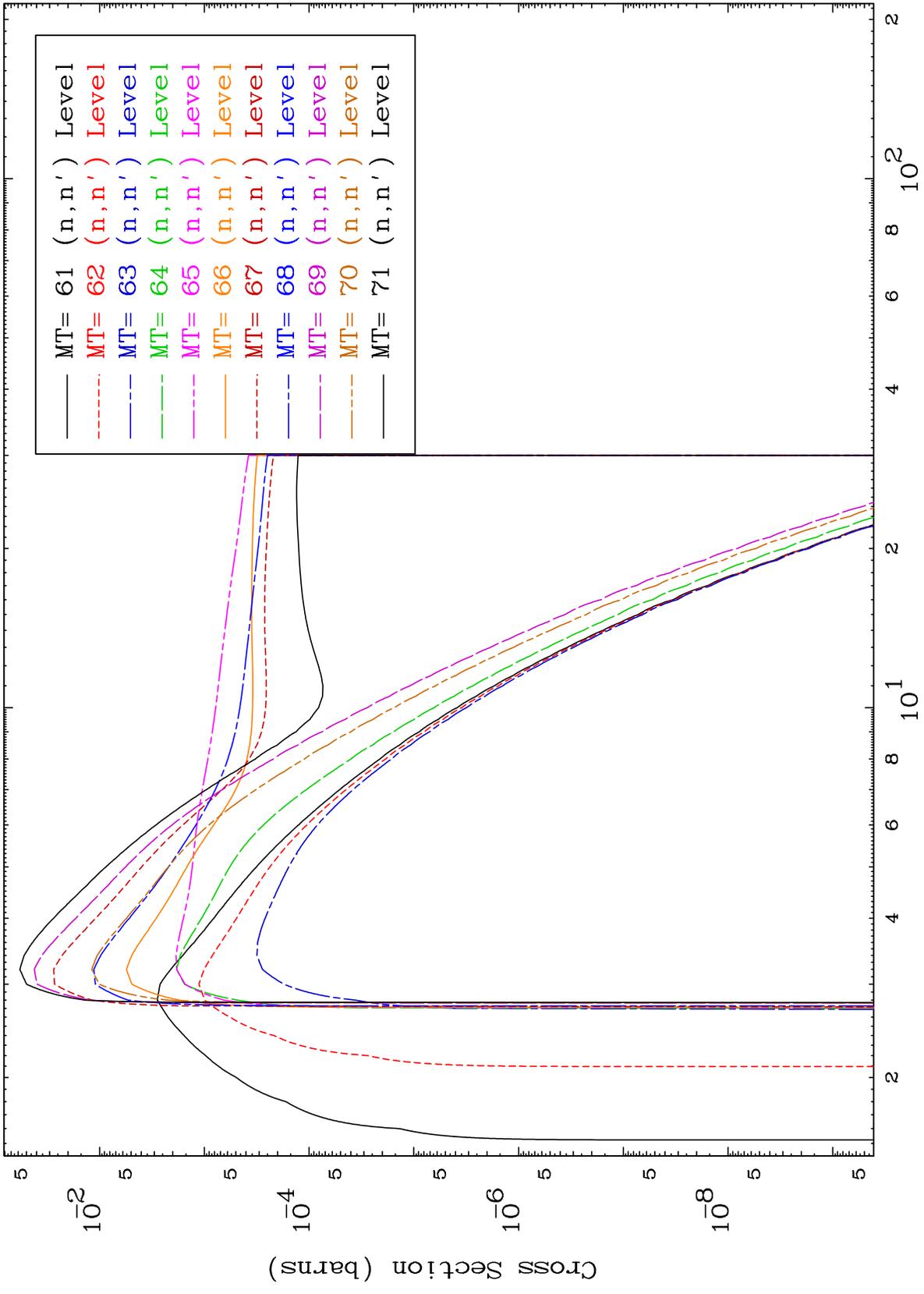
31-Ga-80

MAT 3158

(n,n') Level

31-Ga-80

293 Kelvin Cross Sections



7

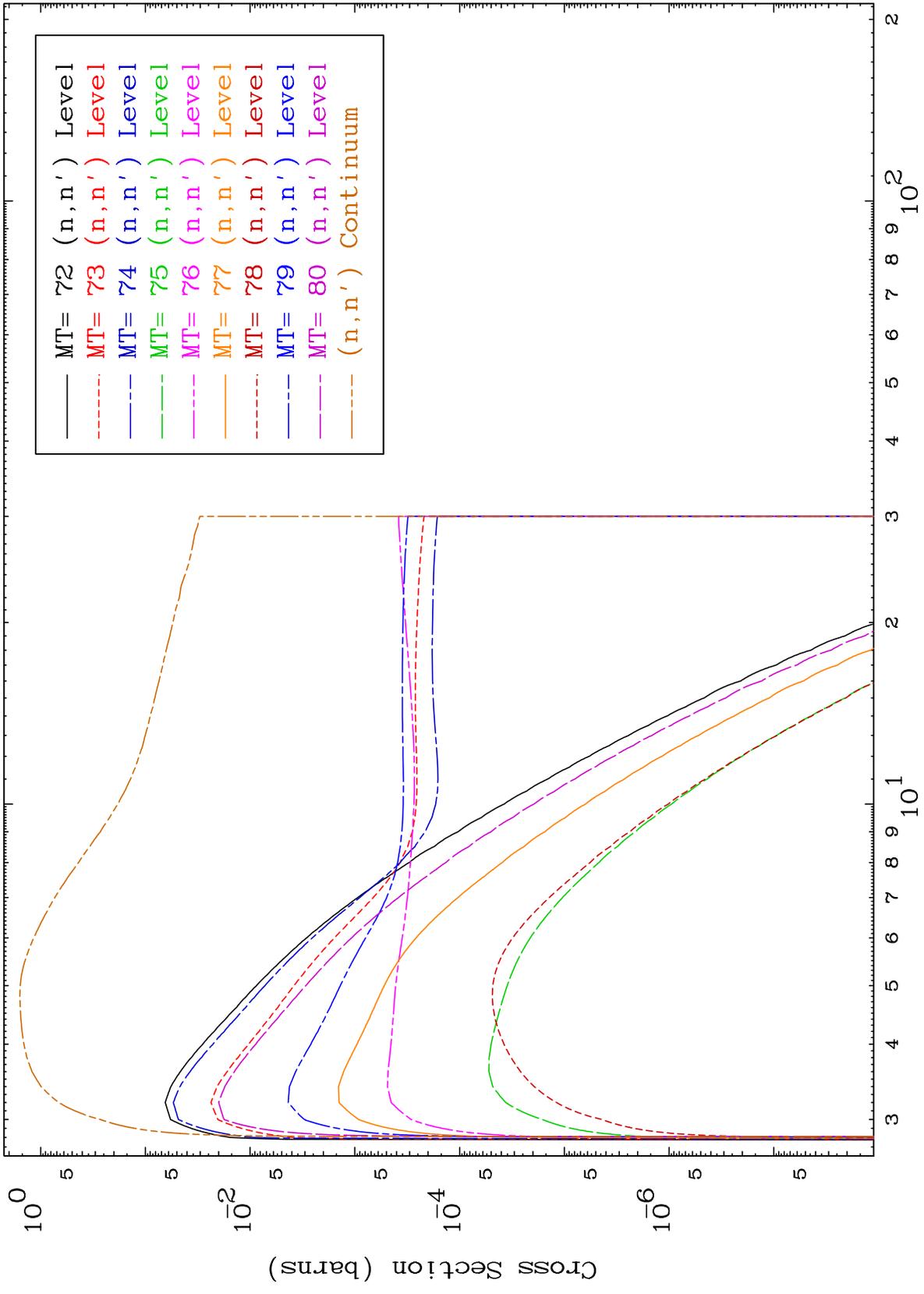
Incident Energy (MeV)

31-Ga-80

MAT 3158

(n,n') Level
293 Kelvin Cross Sections

31-Ga-80



8

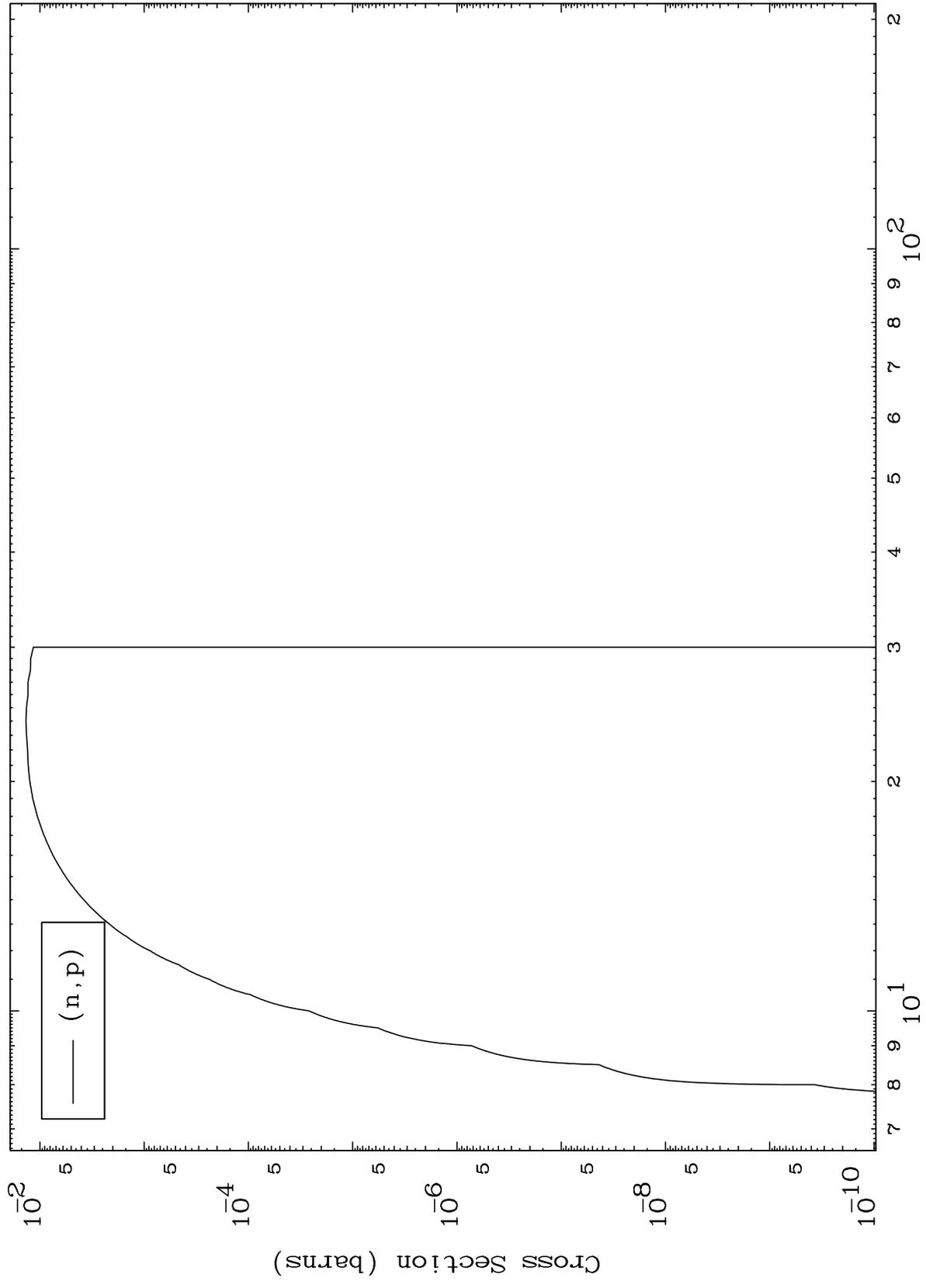
Incident Energy (MeV)

31-Ga-80

MAT 3158

(n,p) Levels
293 Kelvin Cross Sections

31-Ga-80



(n,p)

9

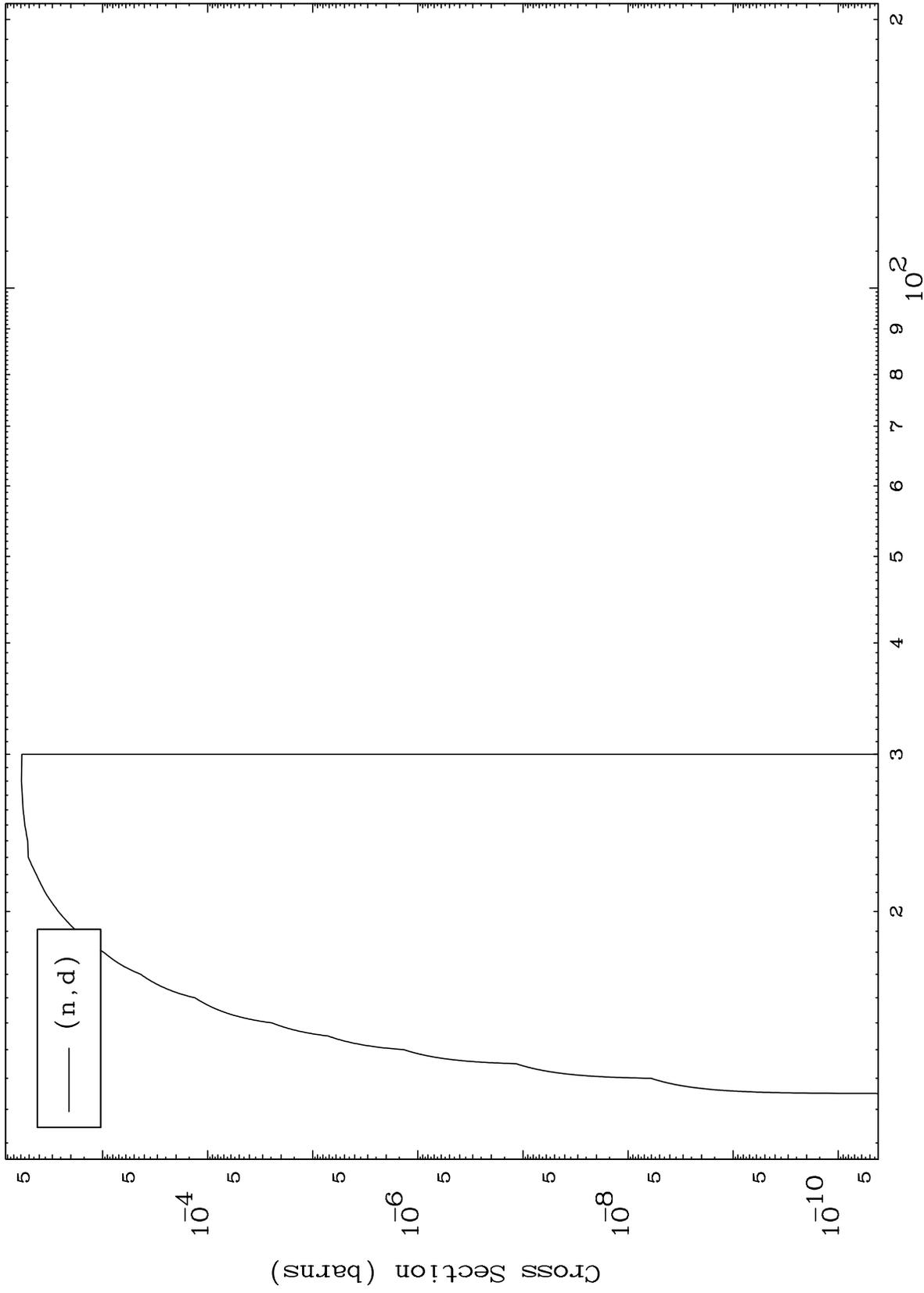
Incident Energy (MeV)

31-Ga-80

MAT 3158

(n,d) Levels
293 Kelvin Cross Sections

31-Ga-80



10

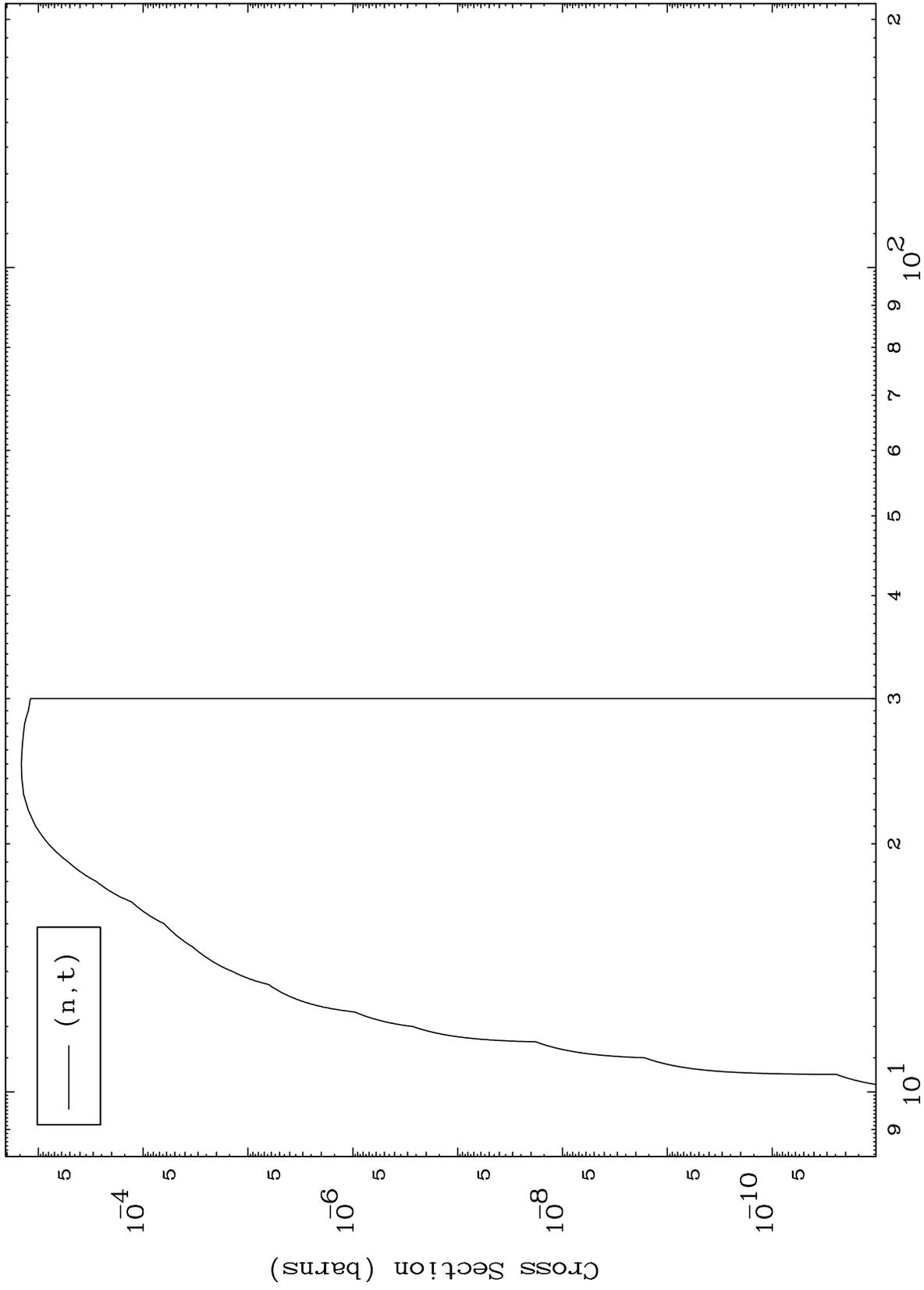
Incident Energy (MeV)

31-Ga-80

MAT 3158

(n,t) Levels
293 Kelvin Cross Sections

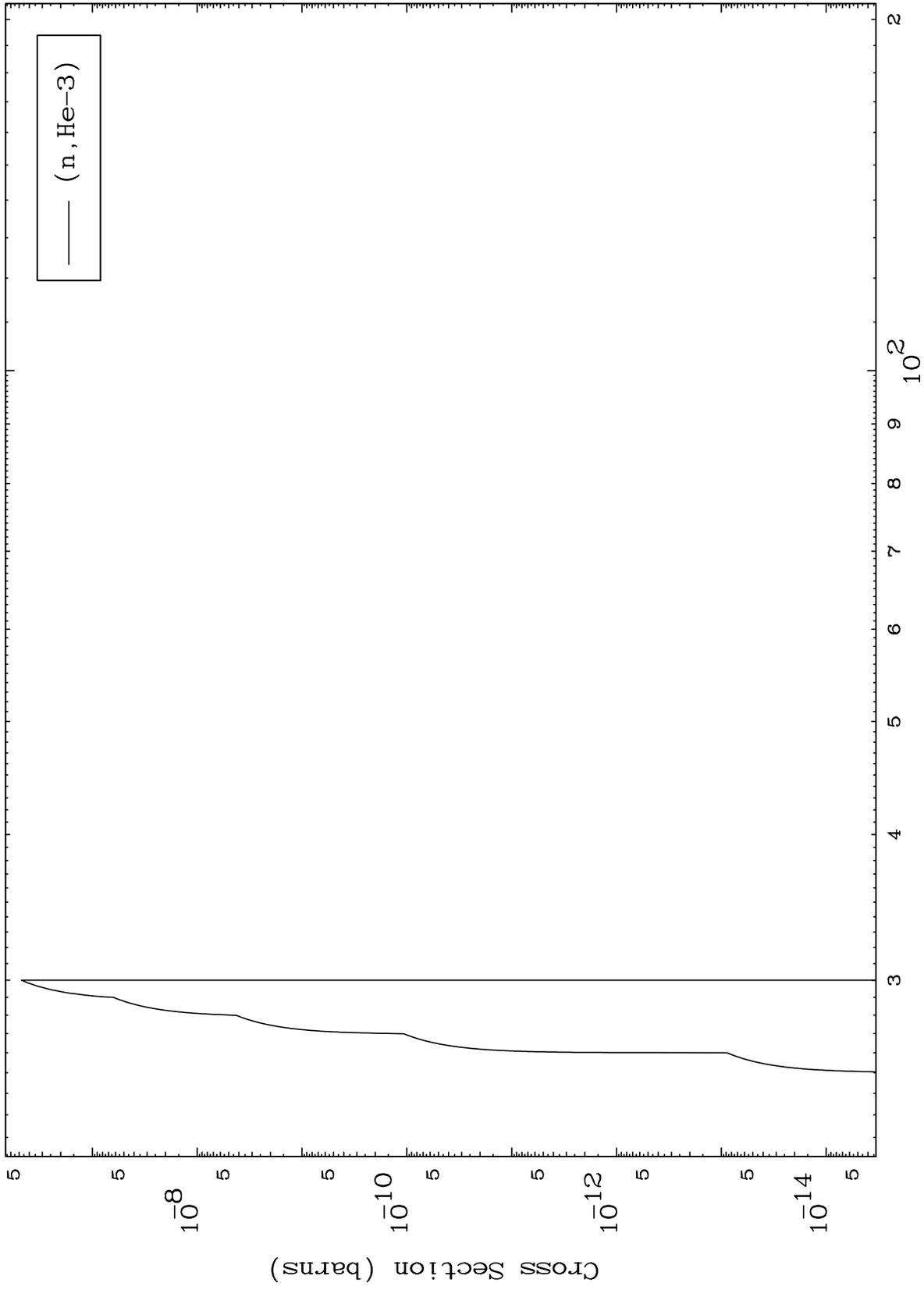
31-Ga-80



11

Incident Energy (MeV)

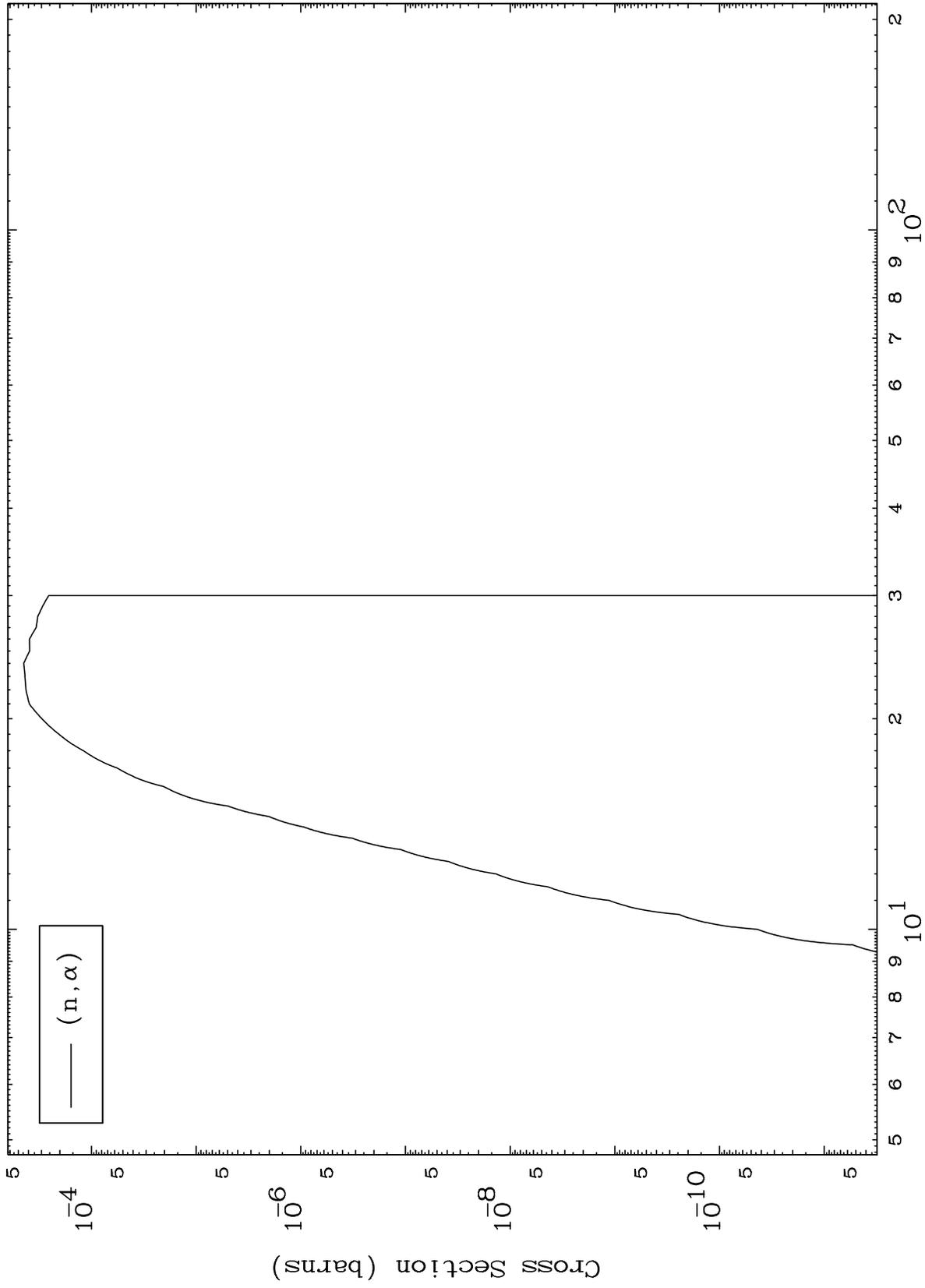
31-Ga-80



MAT 3158

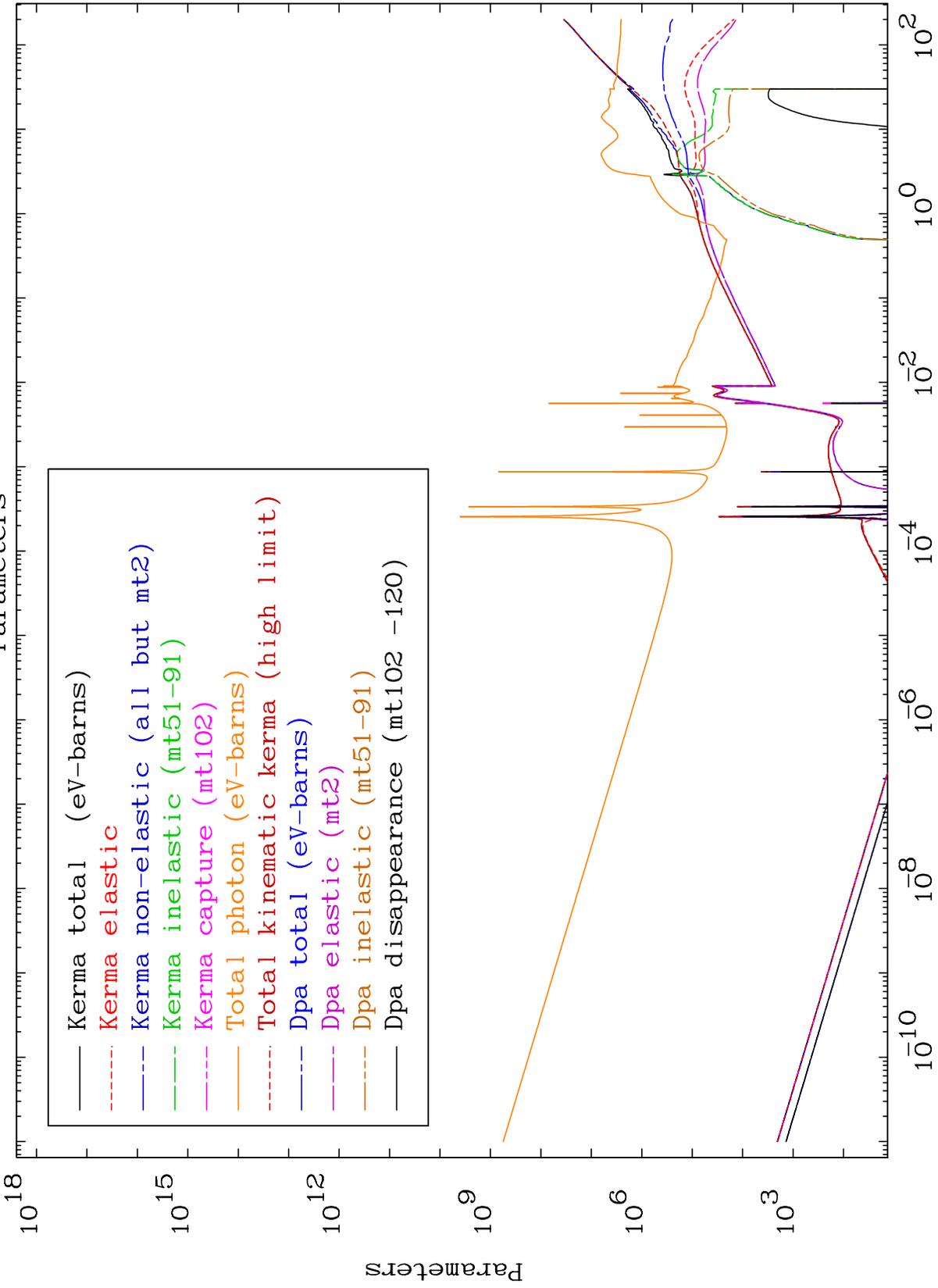
31-Ga-80

(n,α) Levels
293 Kelvin Cross Sections



13

31-Ga-80



MAT 3158

Elastic Legendre Coefficients

31-Ga-80



15

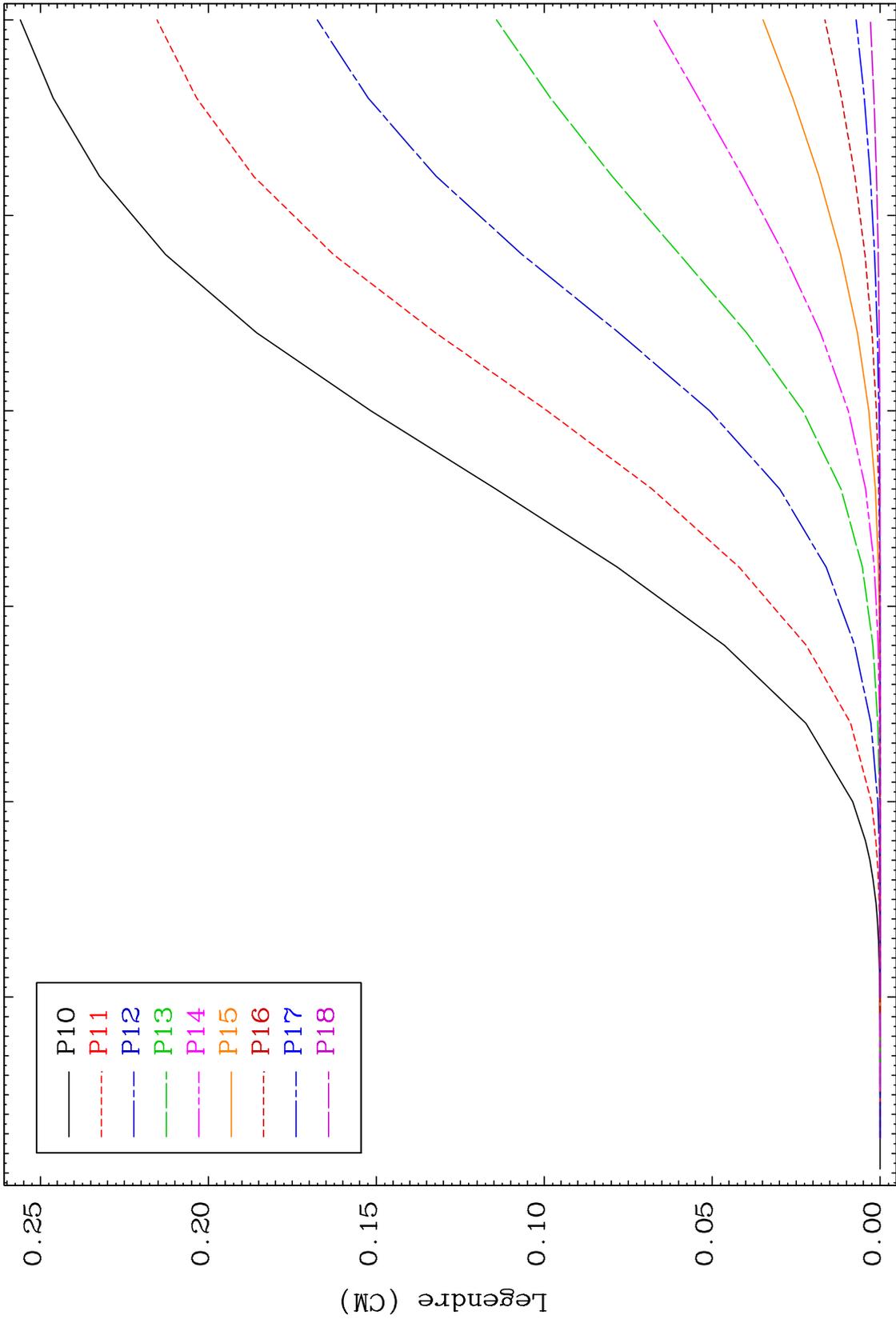
Incident Energy (MeV)

31-Ga-80

MAT 3158

Elastic Legendre Coefficients

31-Ga-80



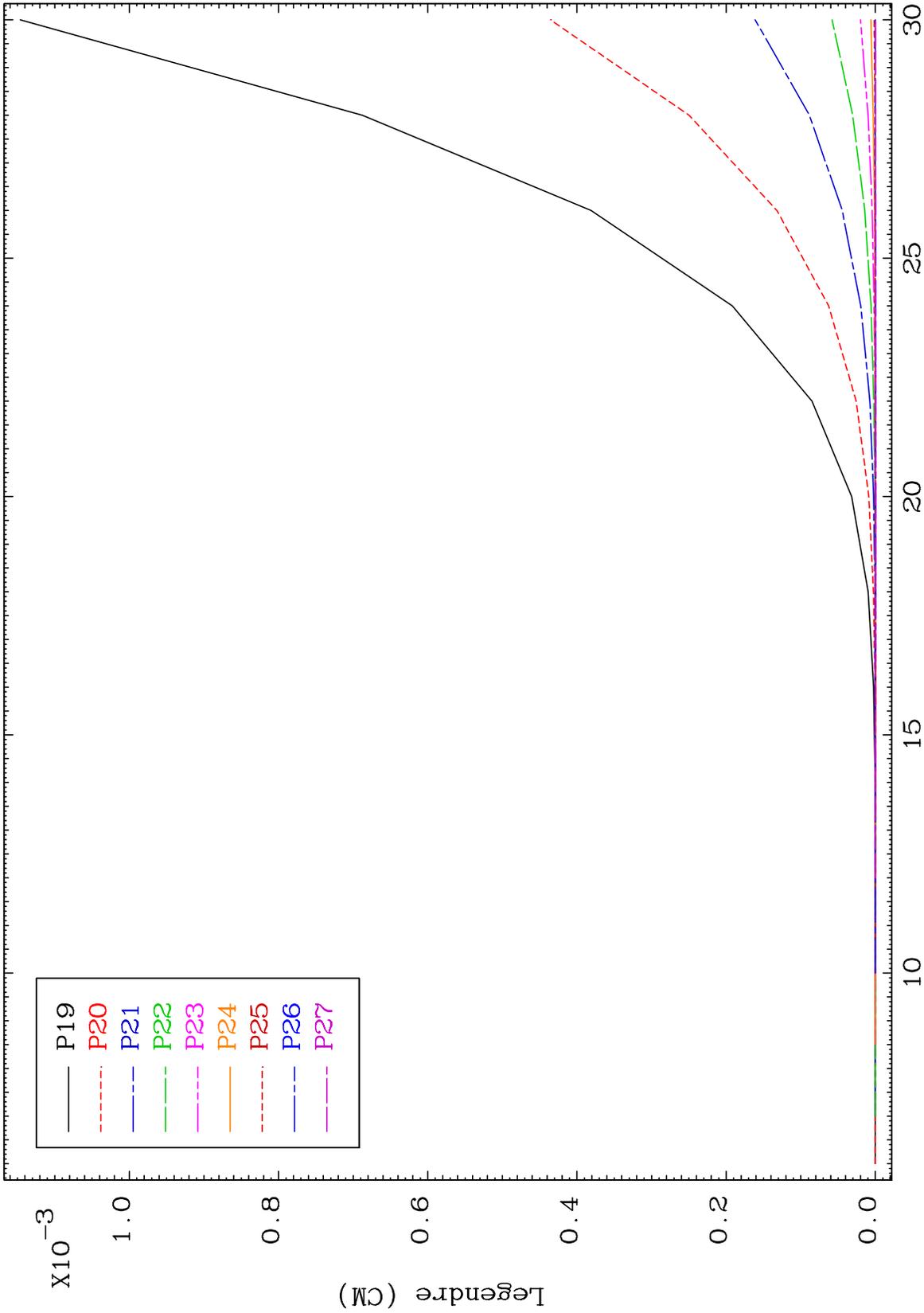
16

31-Ga-80

MAT 3158

Elastic Legendre Coefficients

31-Ga-80



17

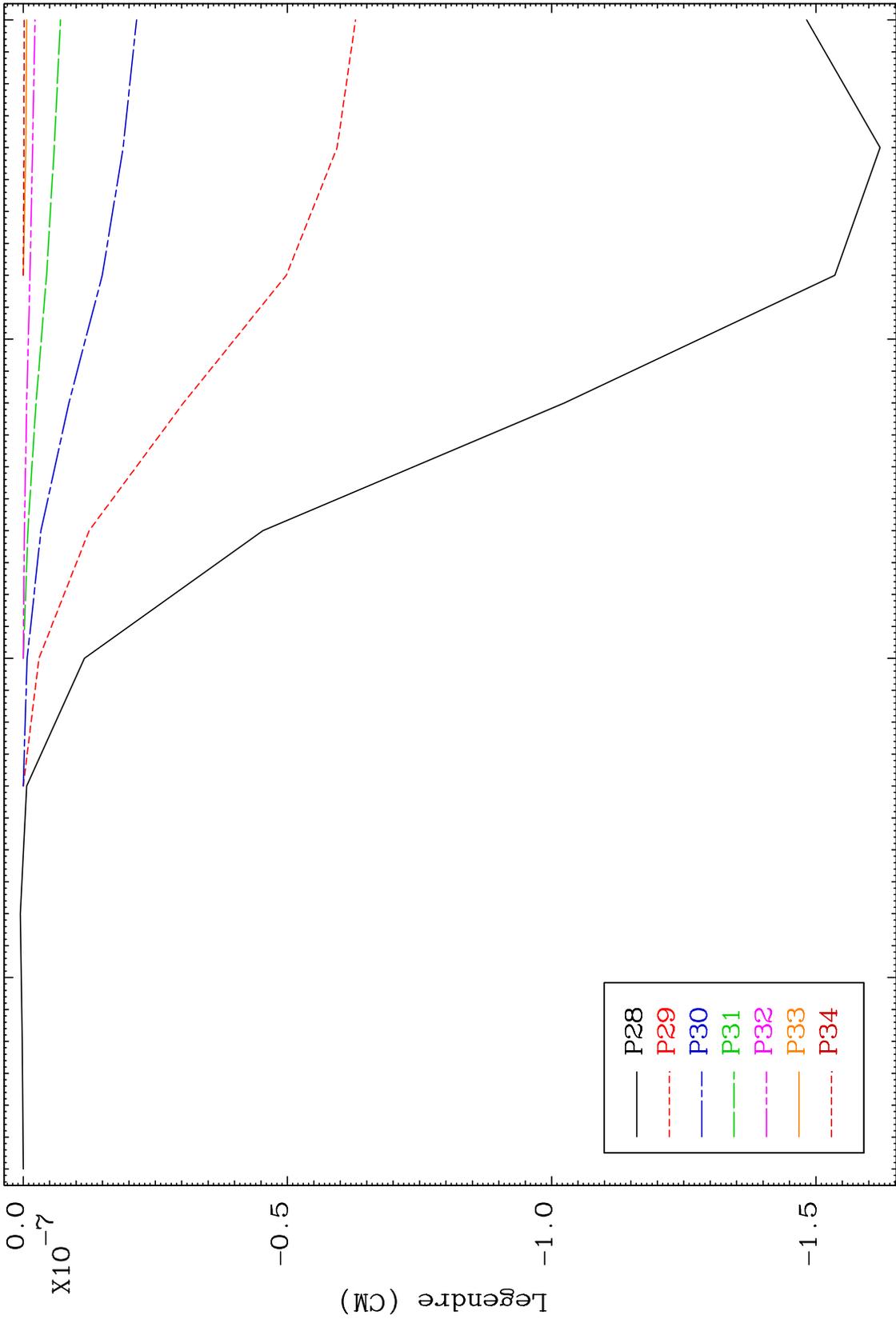
Incident Energy (MeV)

31-Ga-80

MAT 3158

31-Ga-80

Elastic Legendre Coefficients



0.0
X10⁻⁷

-0.5

-1.0

-1.5

Legendre (CM)

15

20

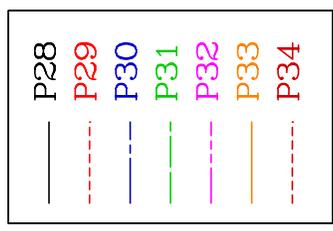
25

30

18

Incident Energy (MeV)

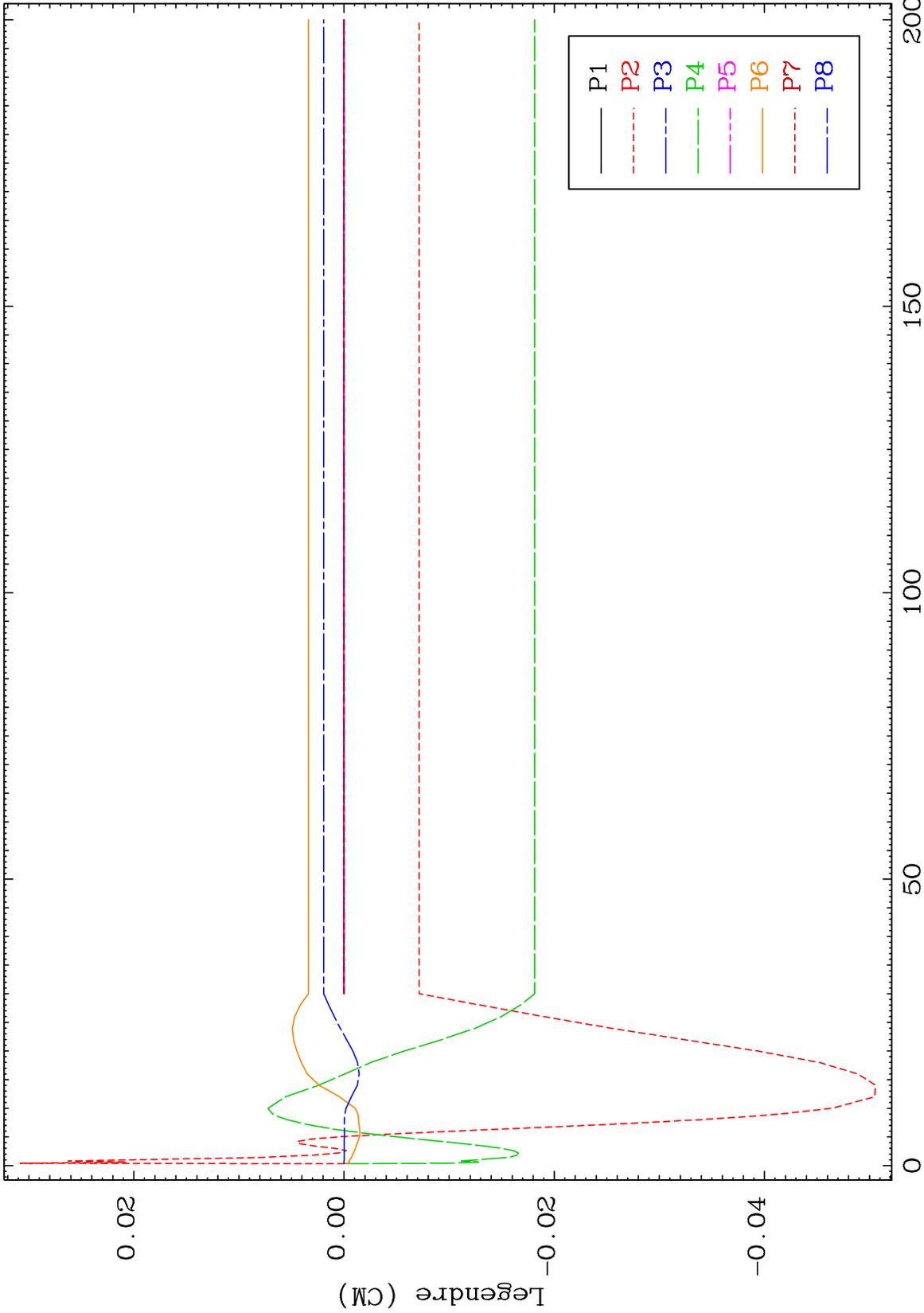
31-Ga-80



MAT 3158

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

31-Ga-80

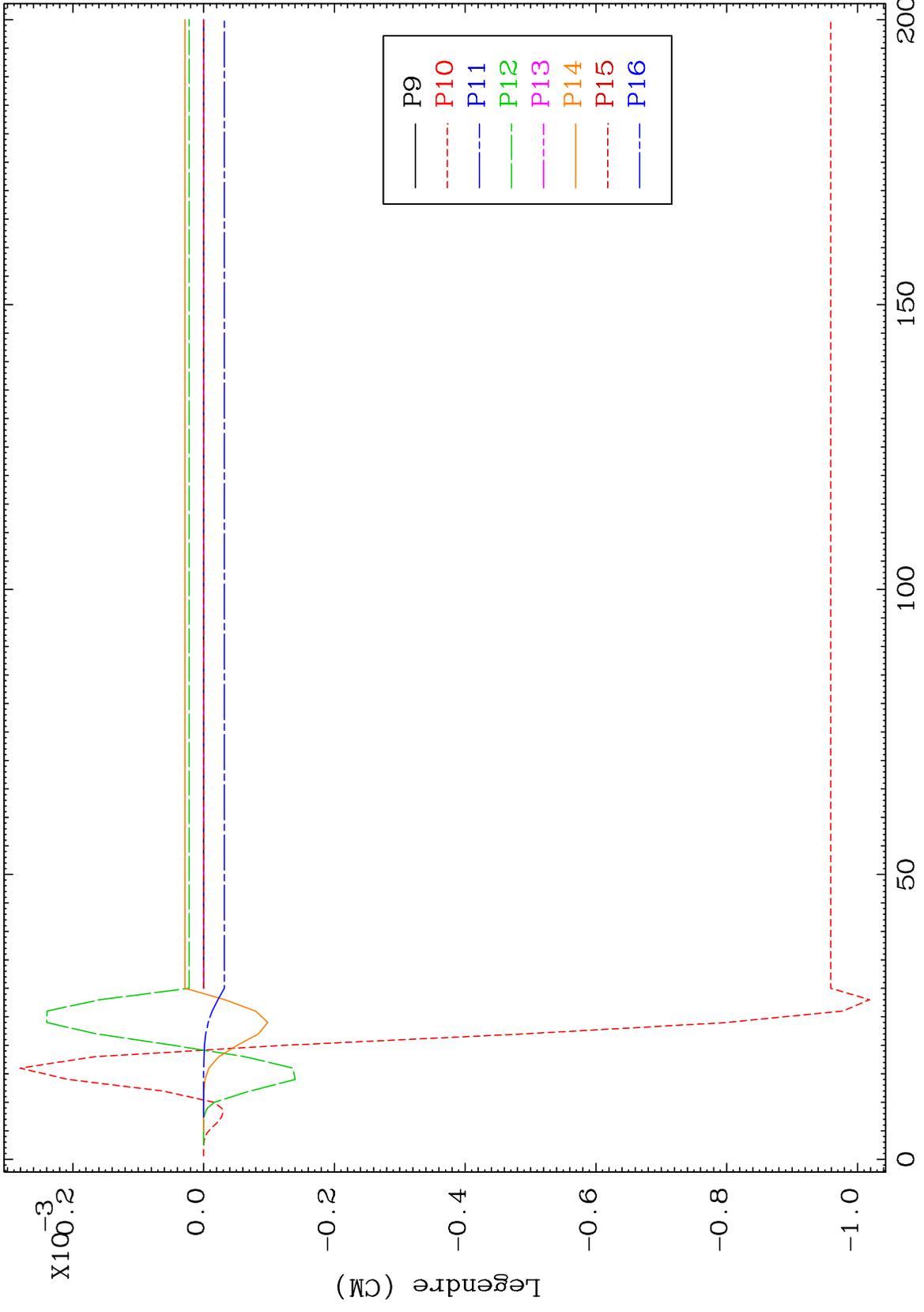


19

Incident Energy (MeV)

31-Ga-80

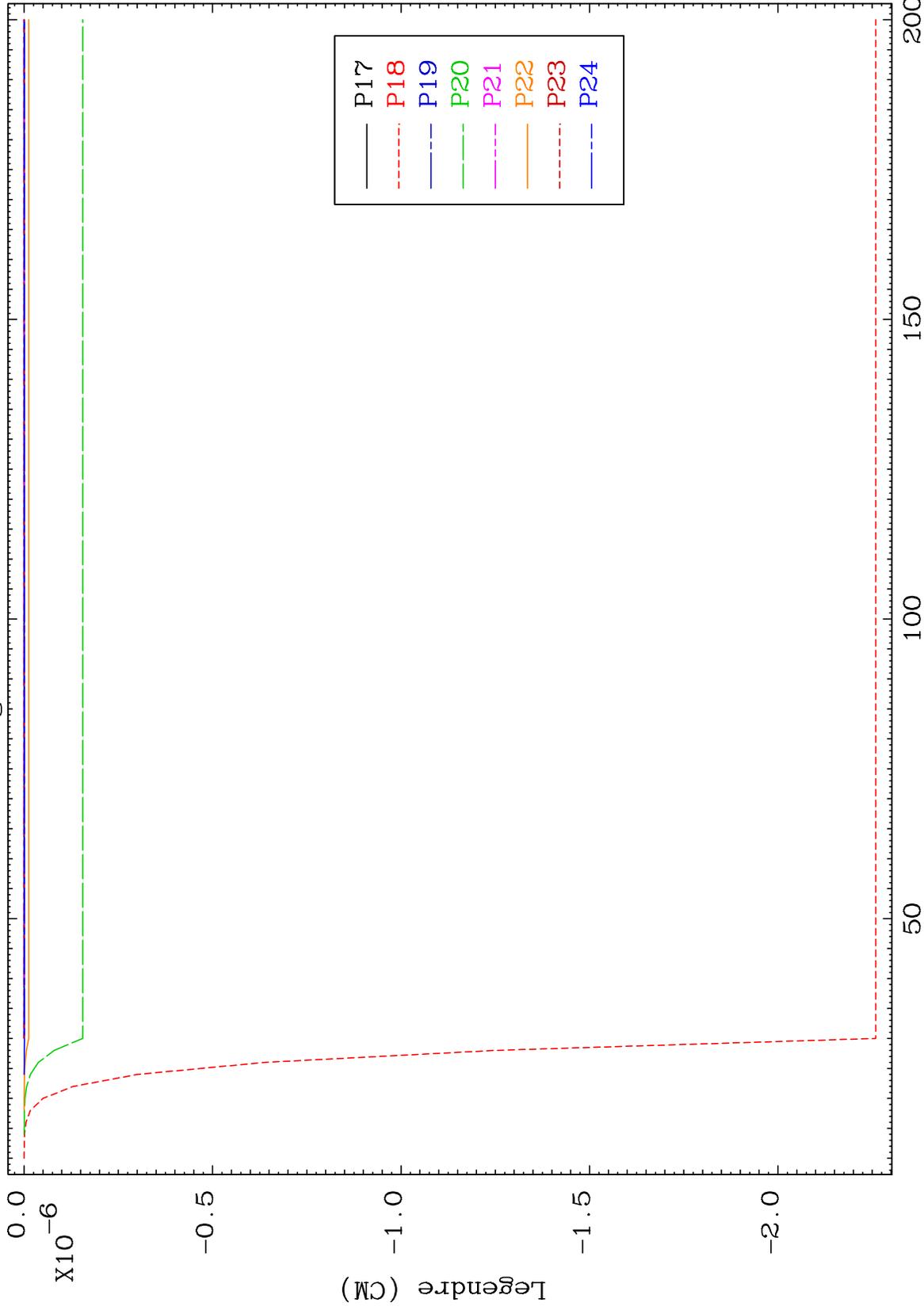
MAT 3158 MT= 51 (n,n') Level Legendre Coefficients 31-Ga-80



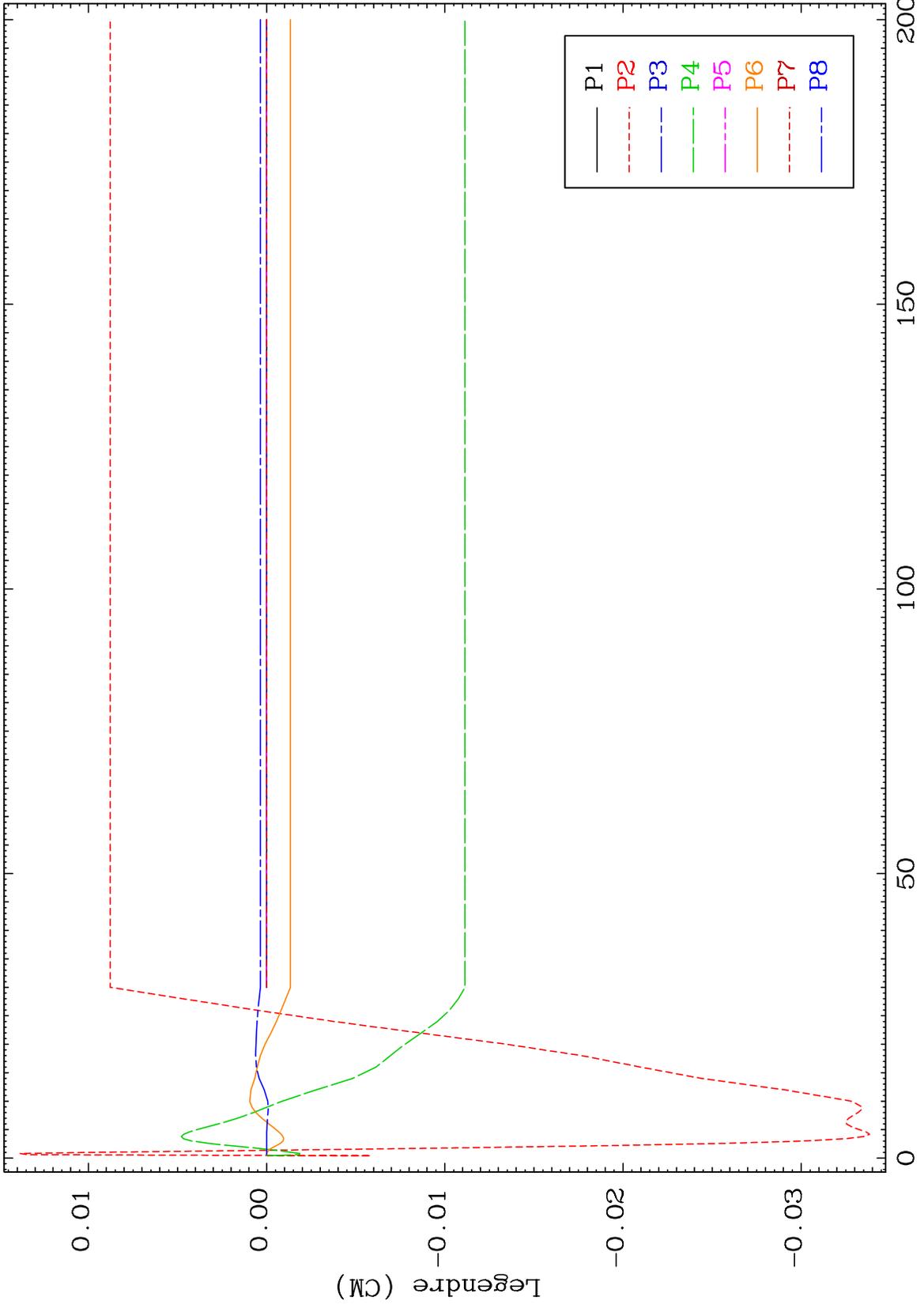
31-Ga-80

MAT 3158 MT= 51 (n,n') Level 31-Ga-80

Legendre Coefficients



MAT 3158 MT= 52 (n,n') Level Legendre Coefficients 31-Ga-80

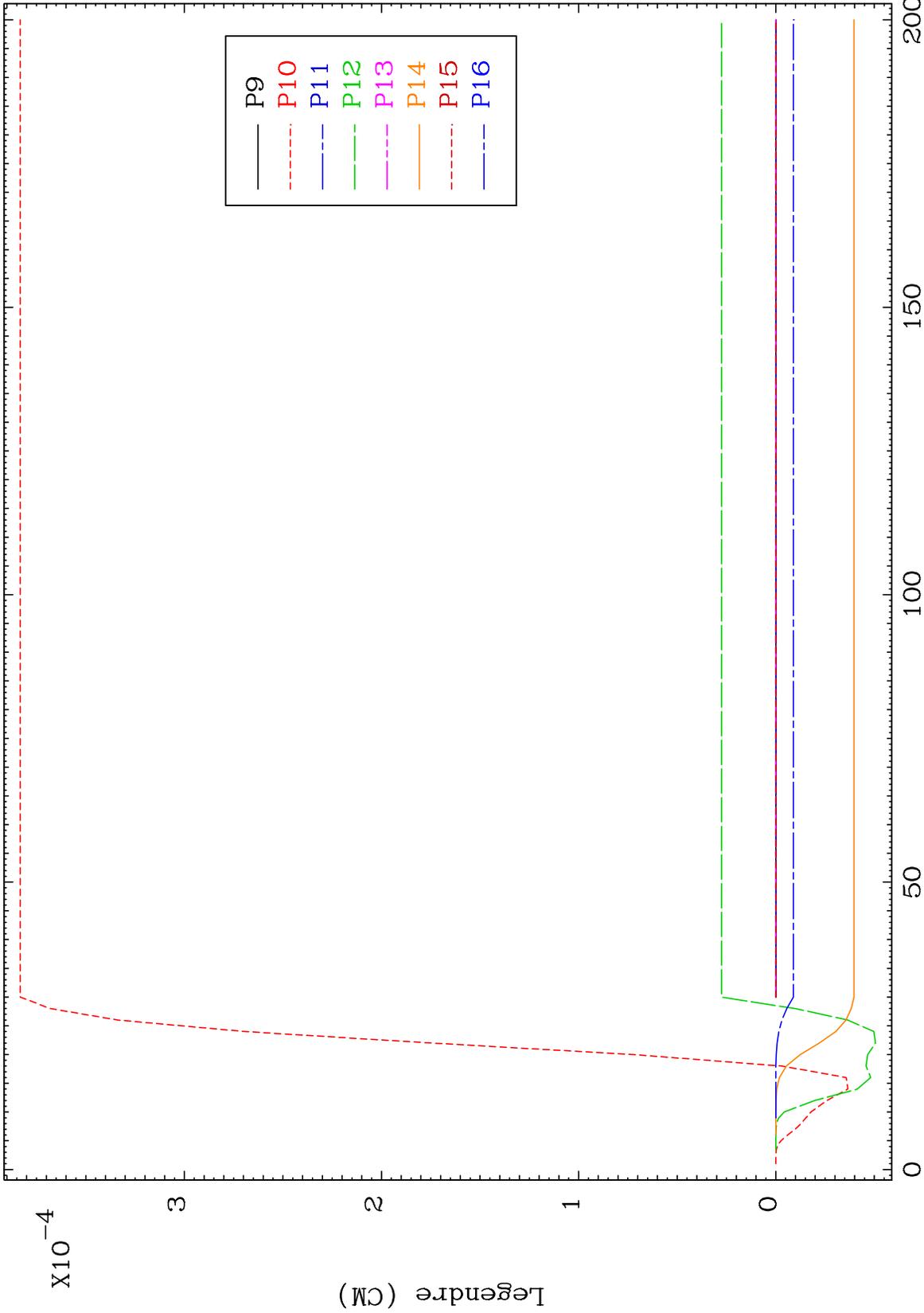


22 31-Ga-80

MAT 3158

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

31-Ga-80

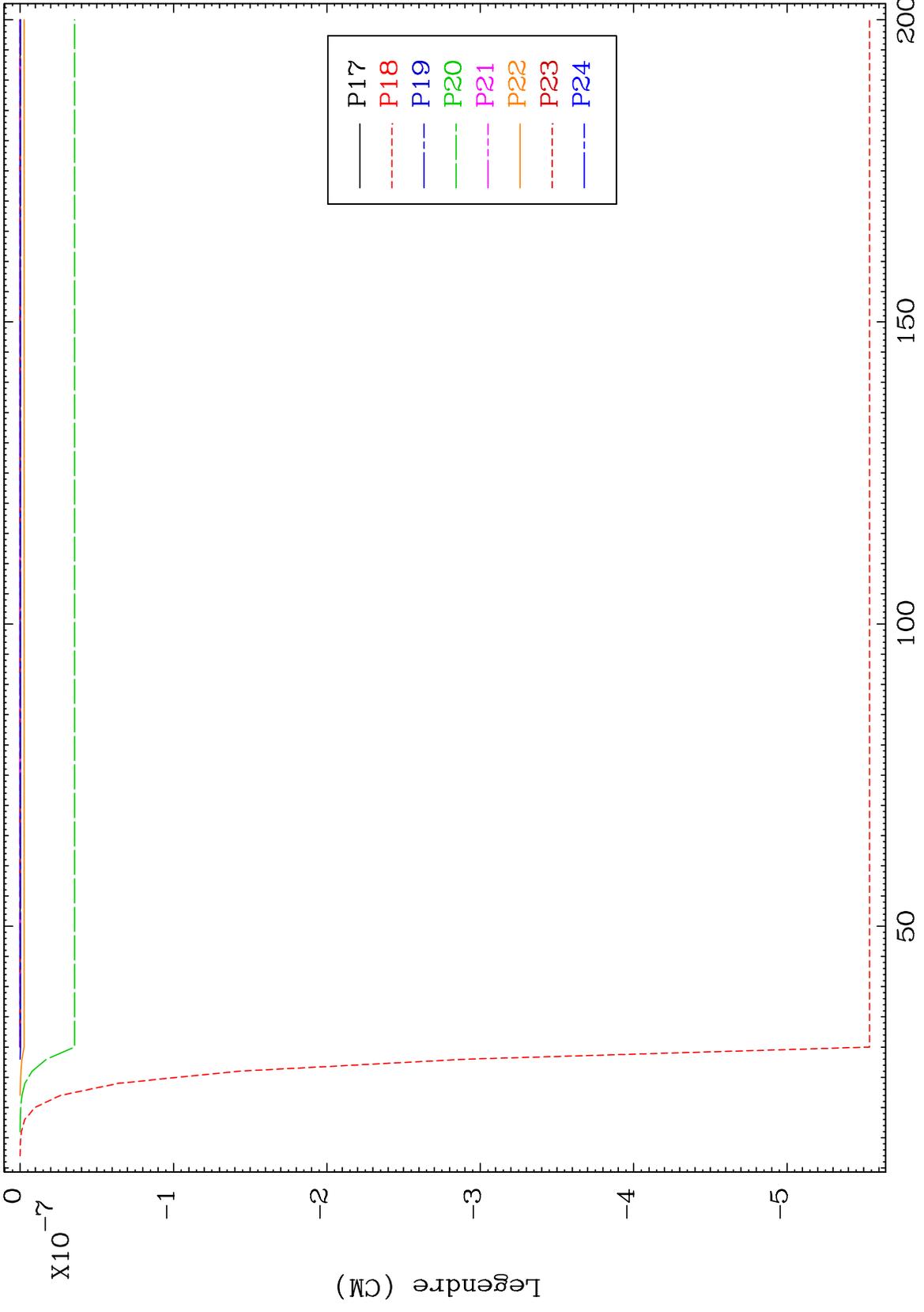


23

Incident Energy (MeV)

31-Ga-80

MAT 3158 MT= 52 (n,n') Level Legendre Coefficients 31-Ga-80

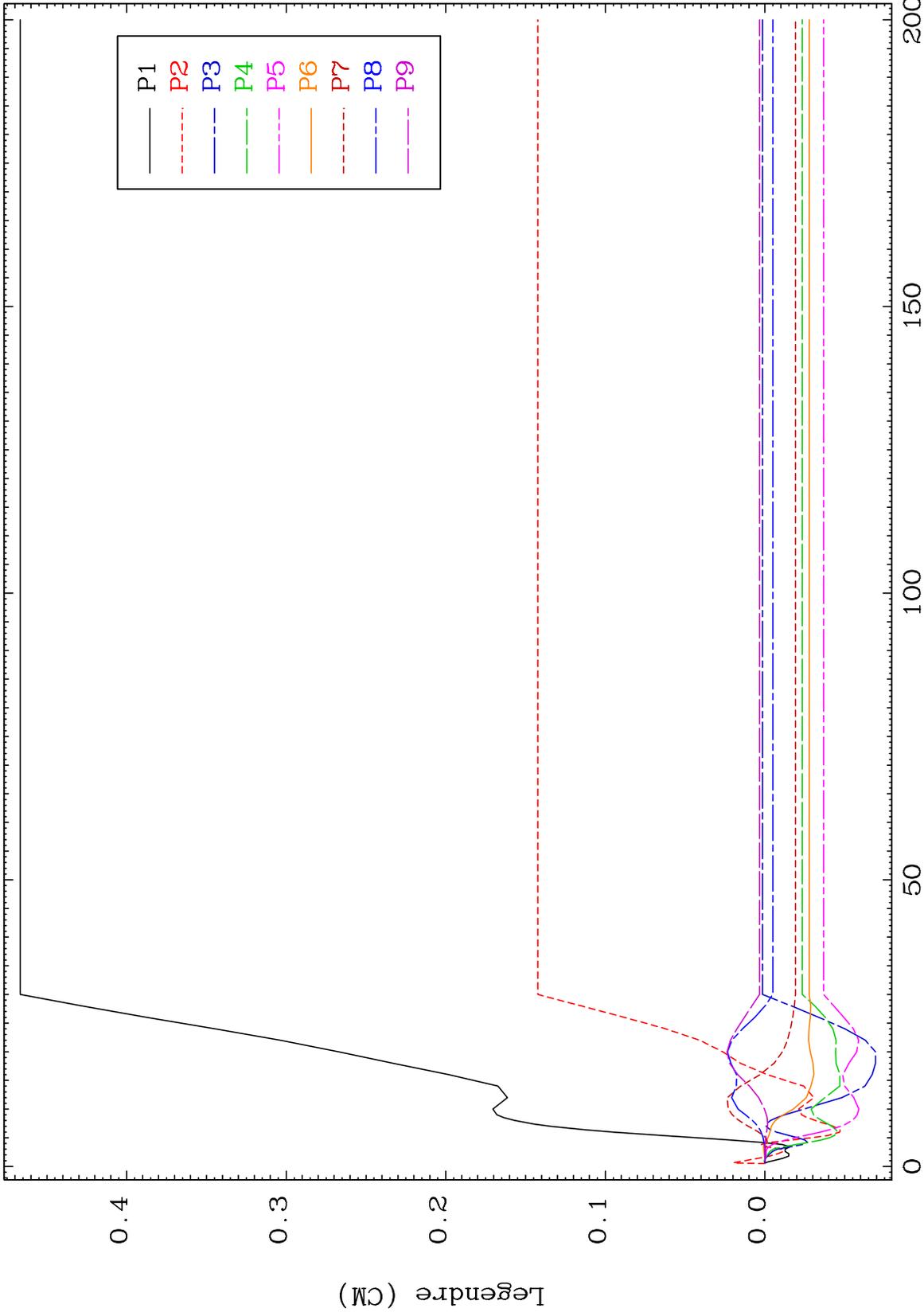


24 31-Ga-80

MAT 3158

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

31-Ga-80

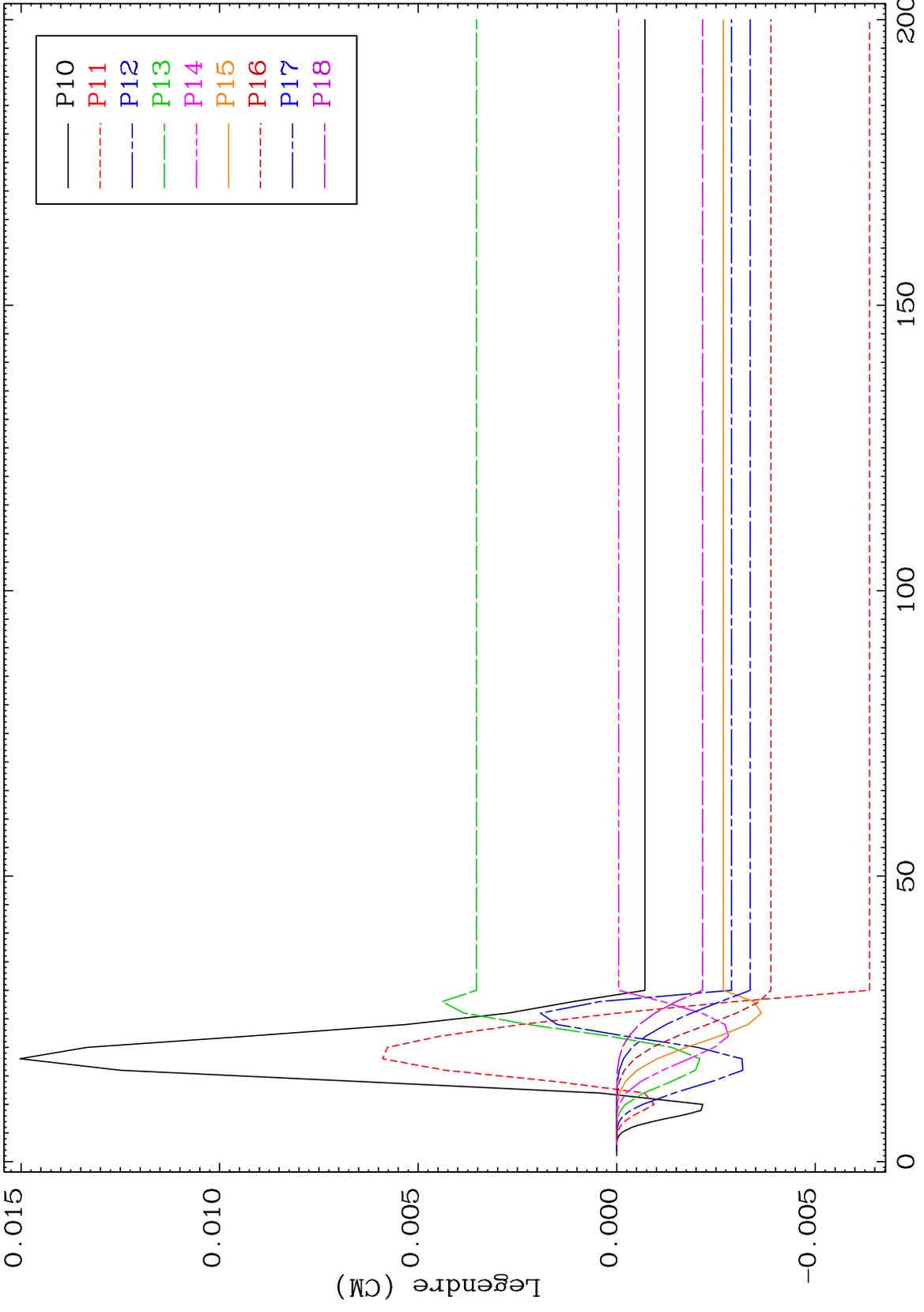


25

Incident Energy (MeV)

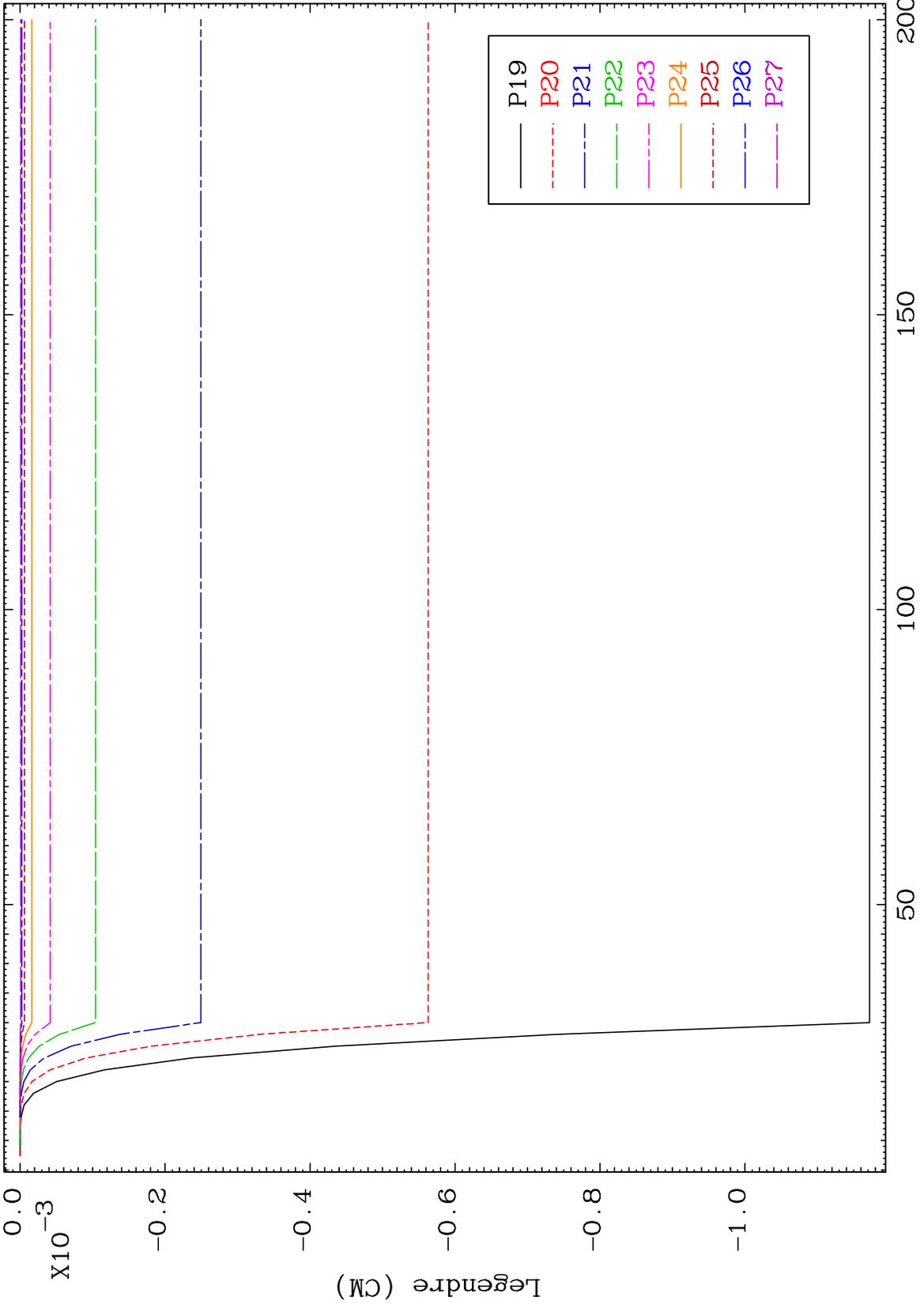
31-Ga-80

MAT 3158 MT= 53 (n,n') Level Legendre Coefficients 31-Ga-80



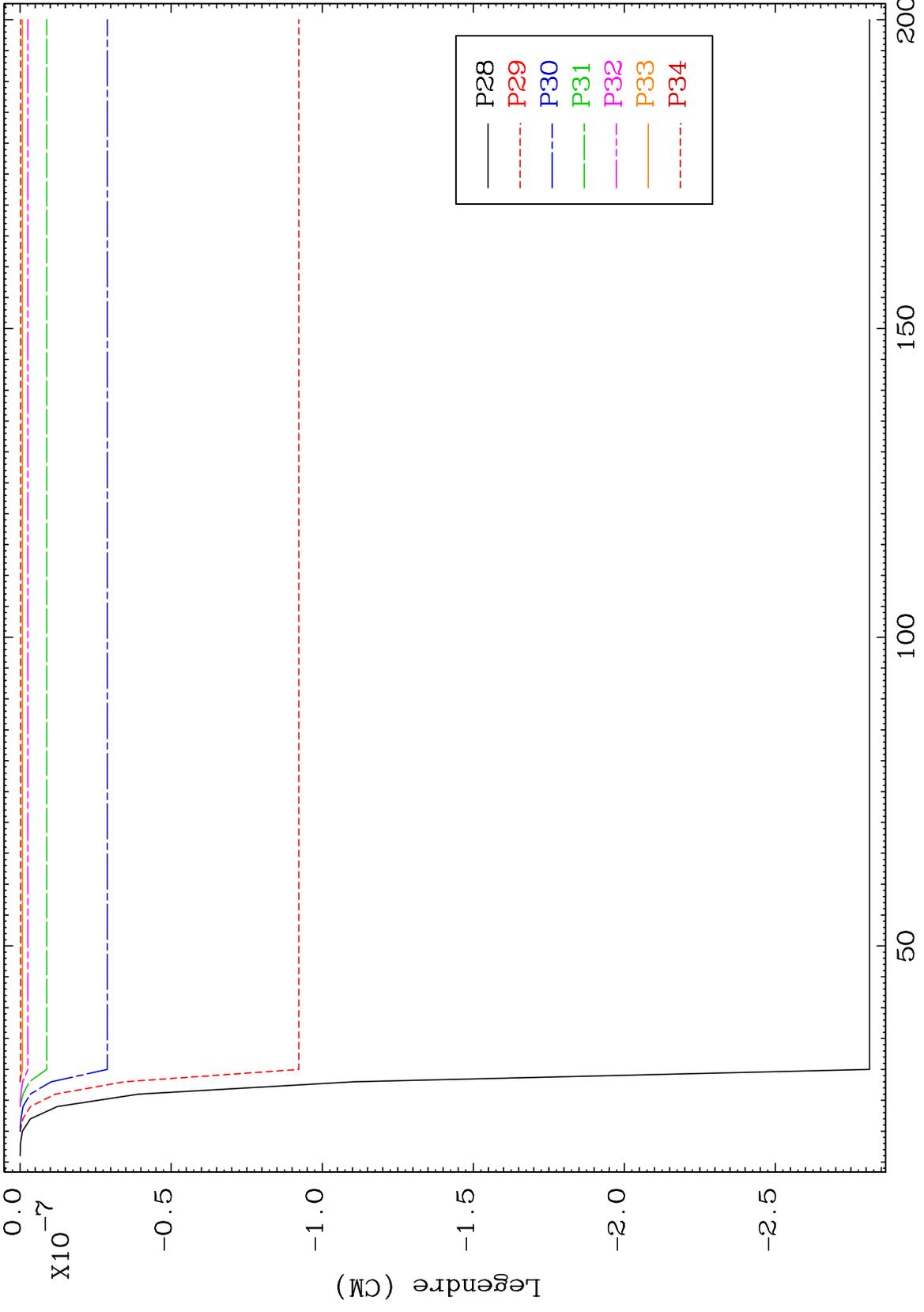
26 31-Ga-80

MAT 3158 MT= 53 (n,n') Level Legendre Coefficients 31-Ga-80



27 Incident Energy (MeV) 31-Ga-80

MAT 3158 MT= 53 (n,n') Level Legendre Coefficients 31-Ga-80

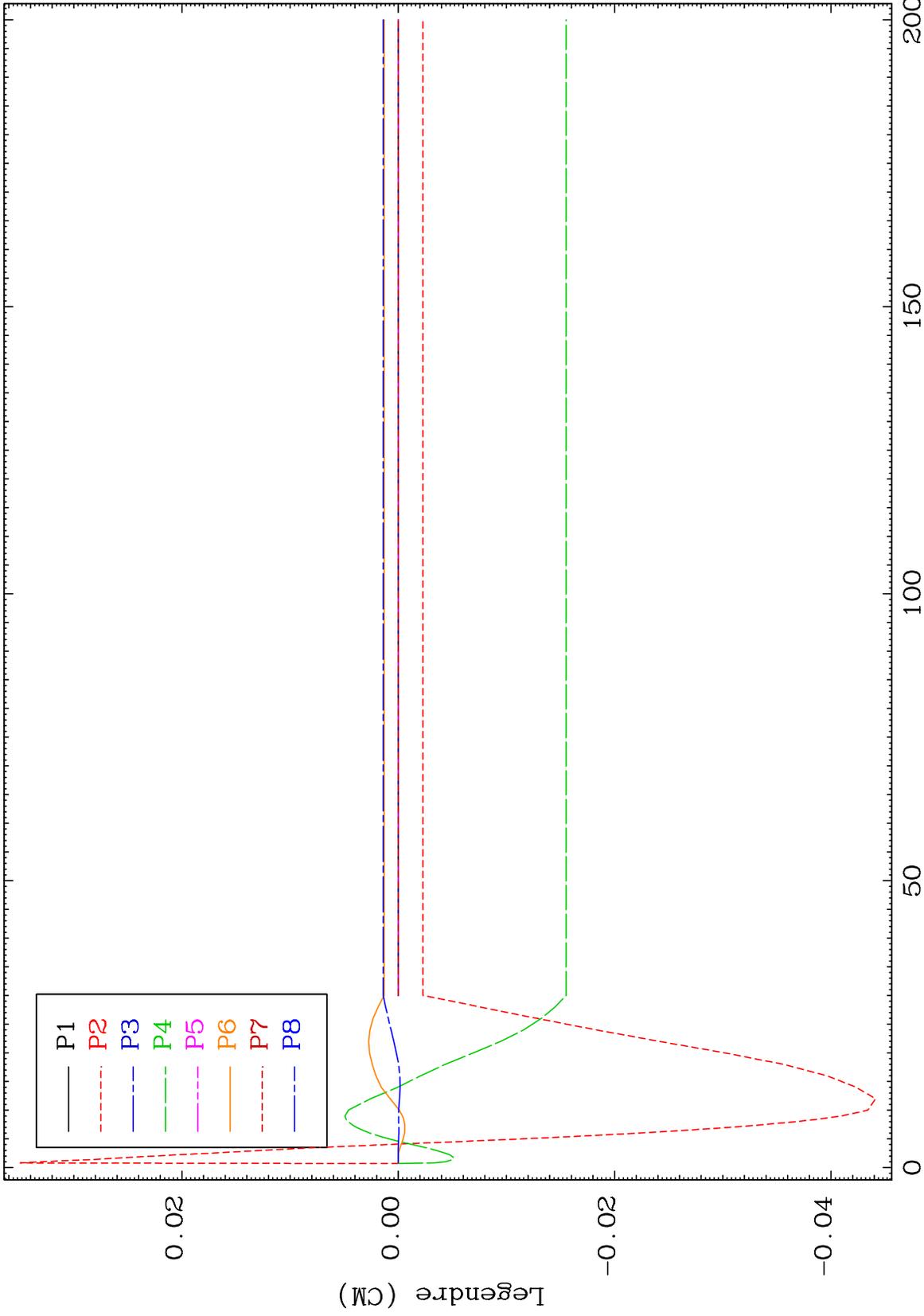


28 Incident Energy (MeV) 31-Ga-80

MAT 3158

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

31-Ga-80



29

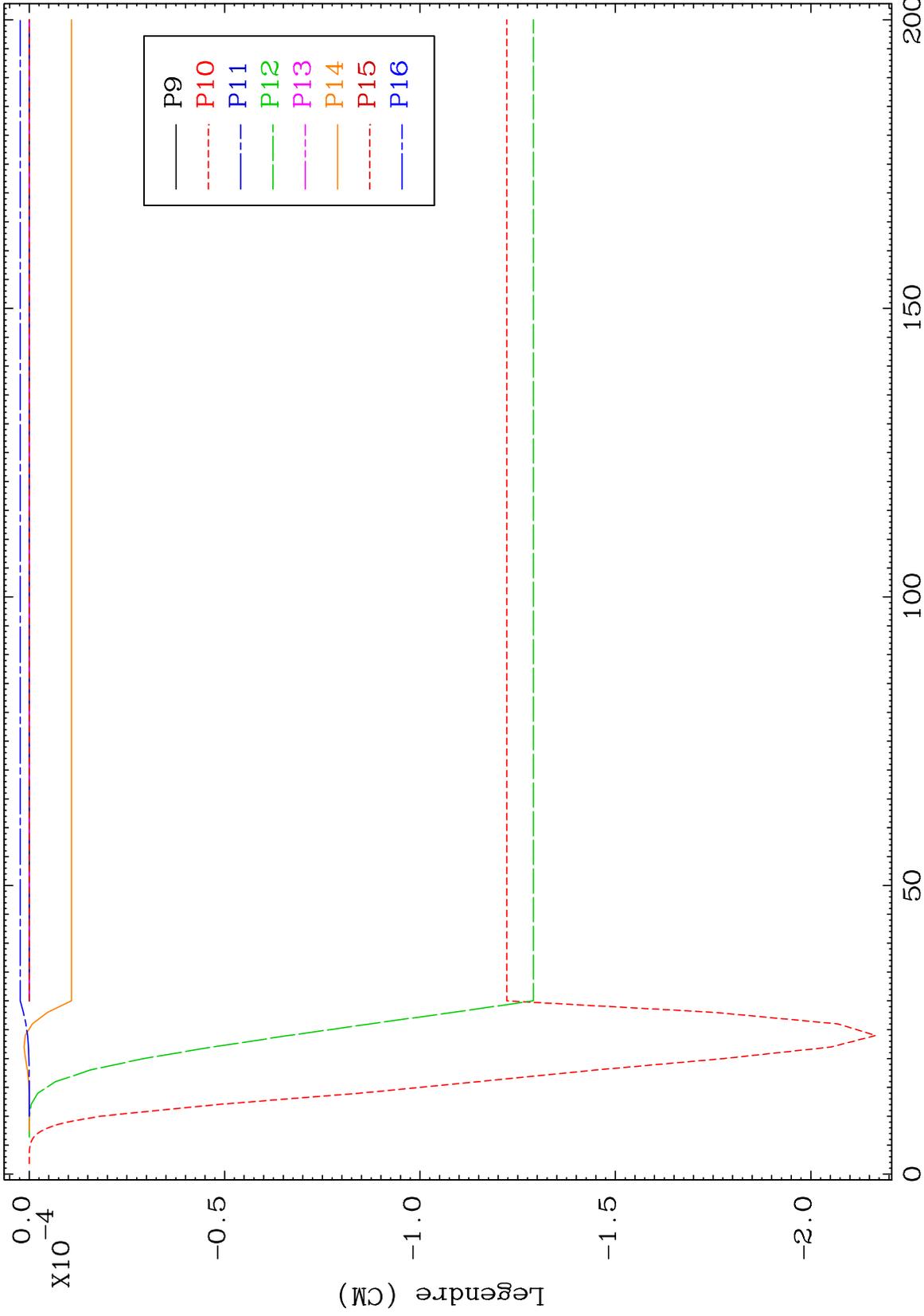
Incident Energy (MeV)

31-Ga-80

MAT 3158

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

31-Ga-80

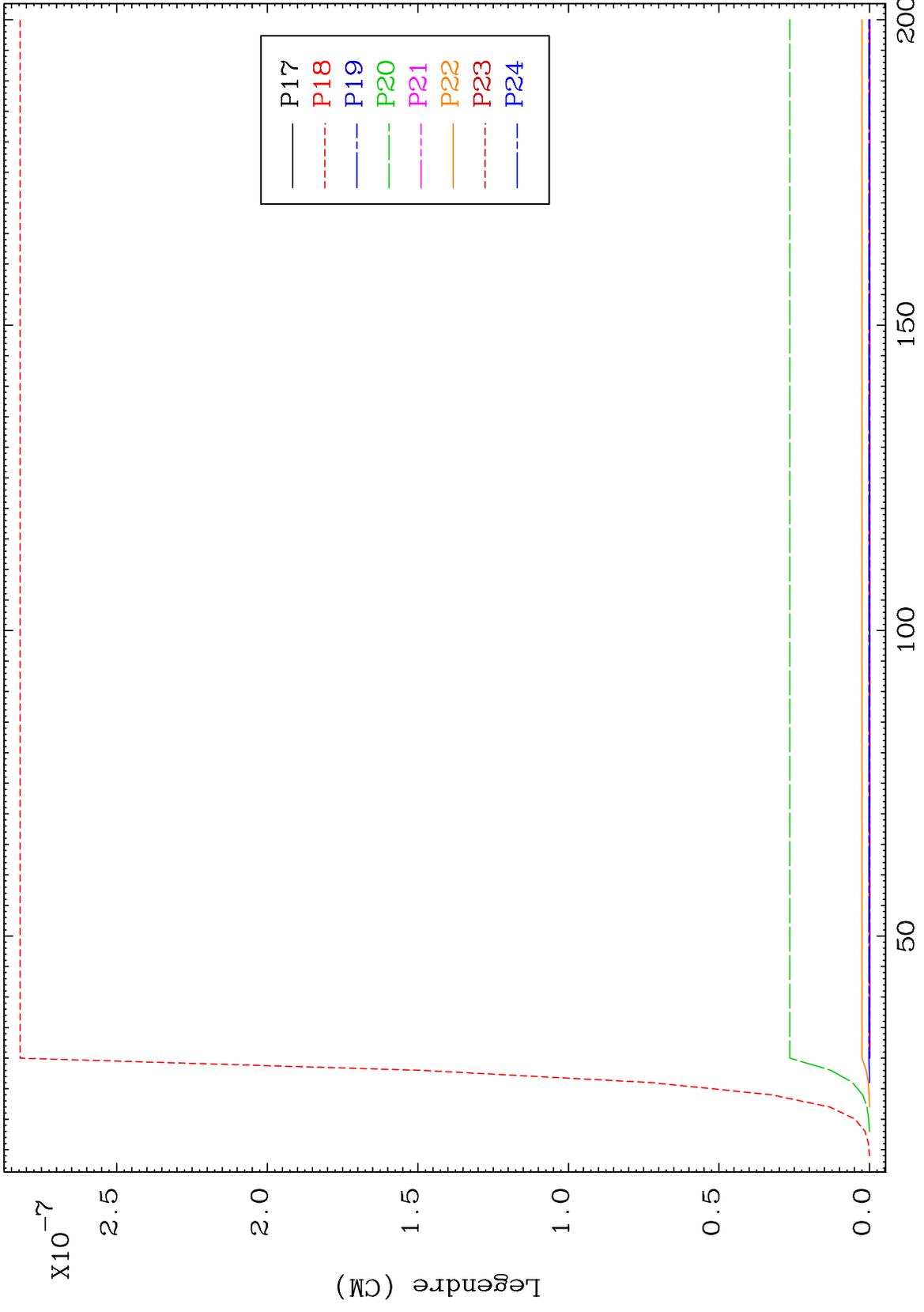


30

Incident Energy (MeV)

31-Ga-80

MAT 3158 MT= 54 (n,n') Level Legendre Coefficients 31-Ga-80

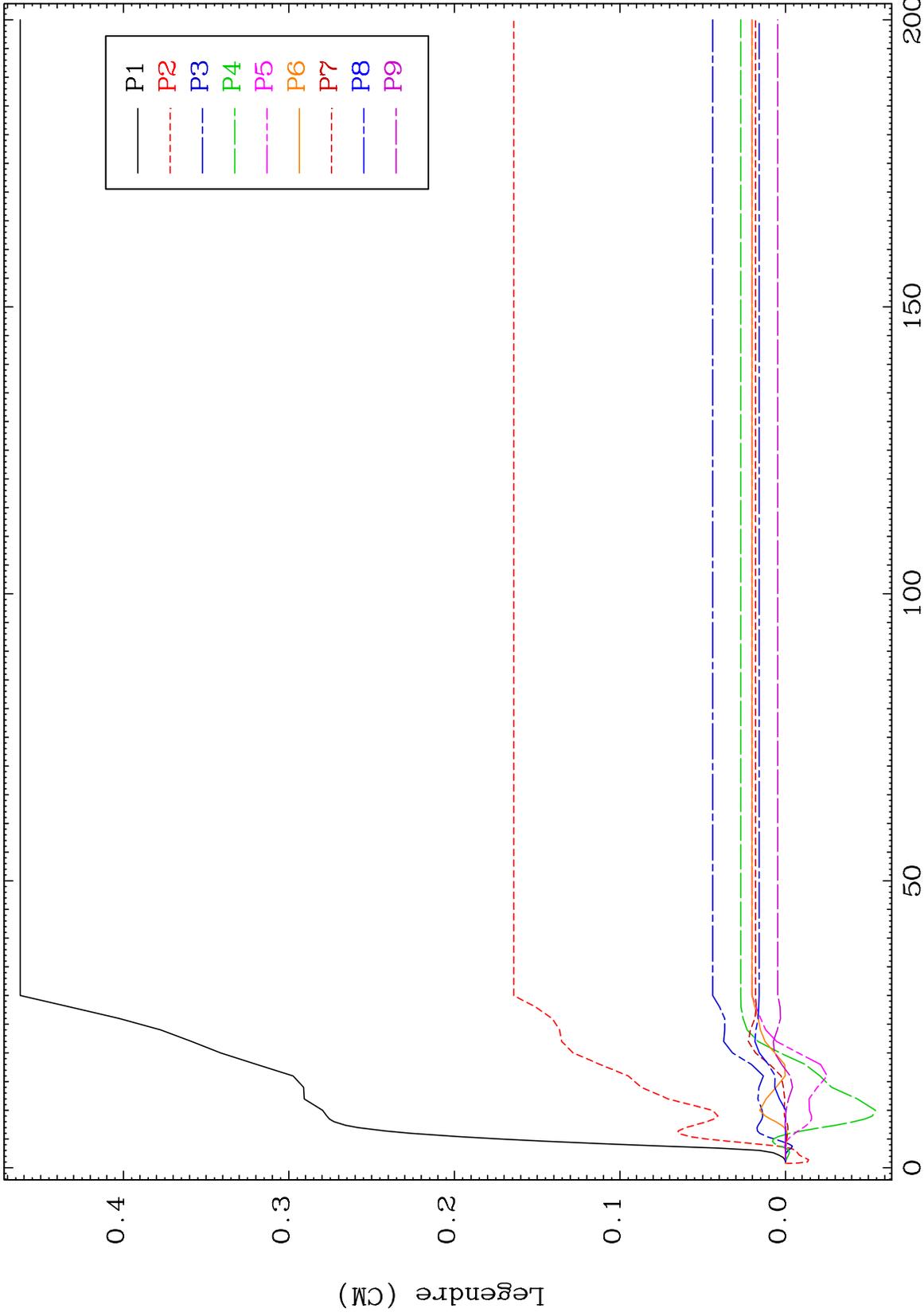


31 31-Ga-80

MAT 3158

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

31-Ga-80



32

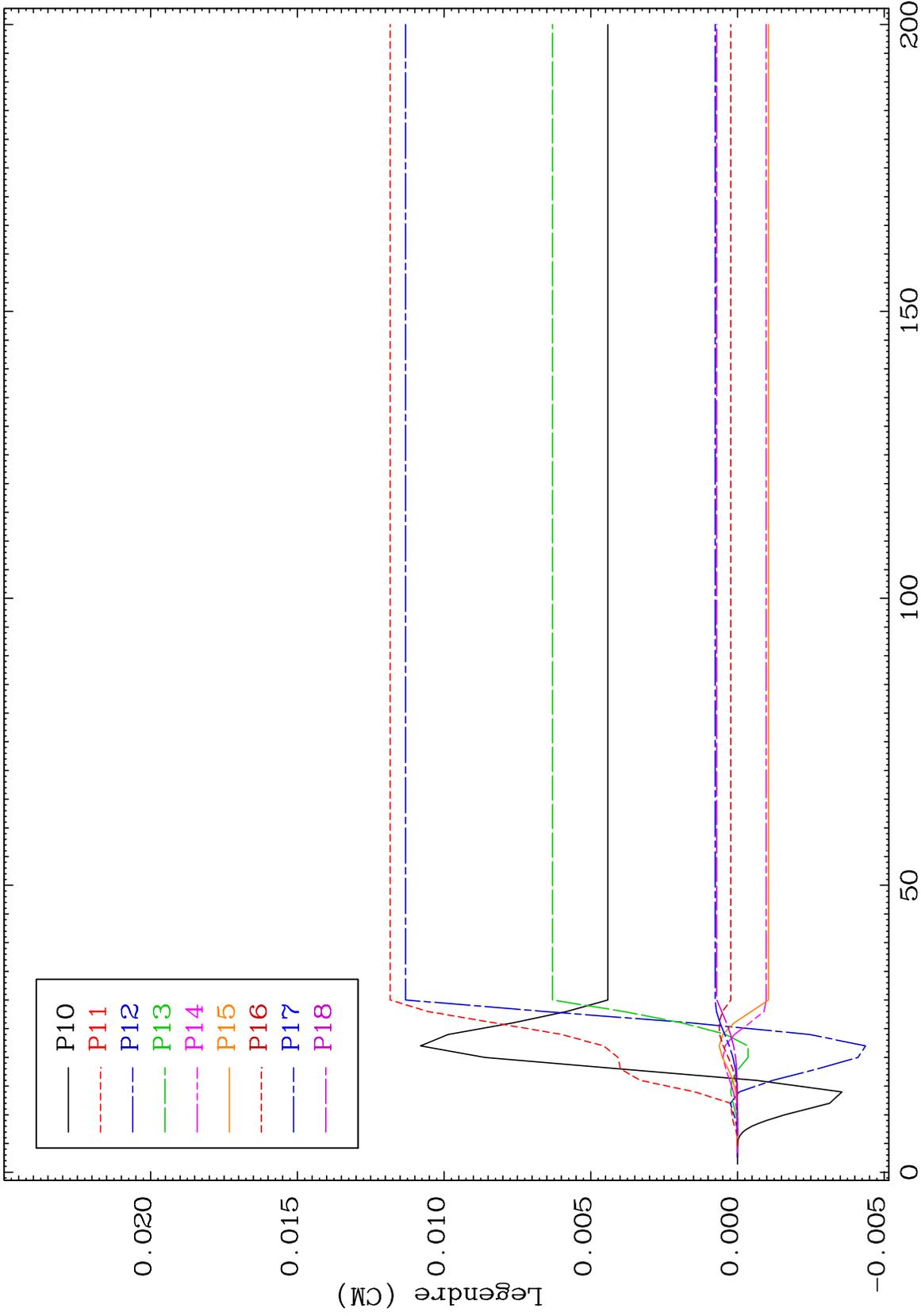
Incident Energy (MeV)

31-Ga-80

MAT 3158

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

31-Ga-80



33

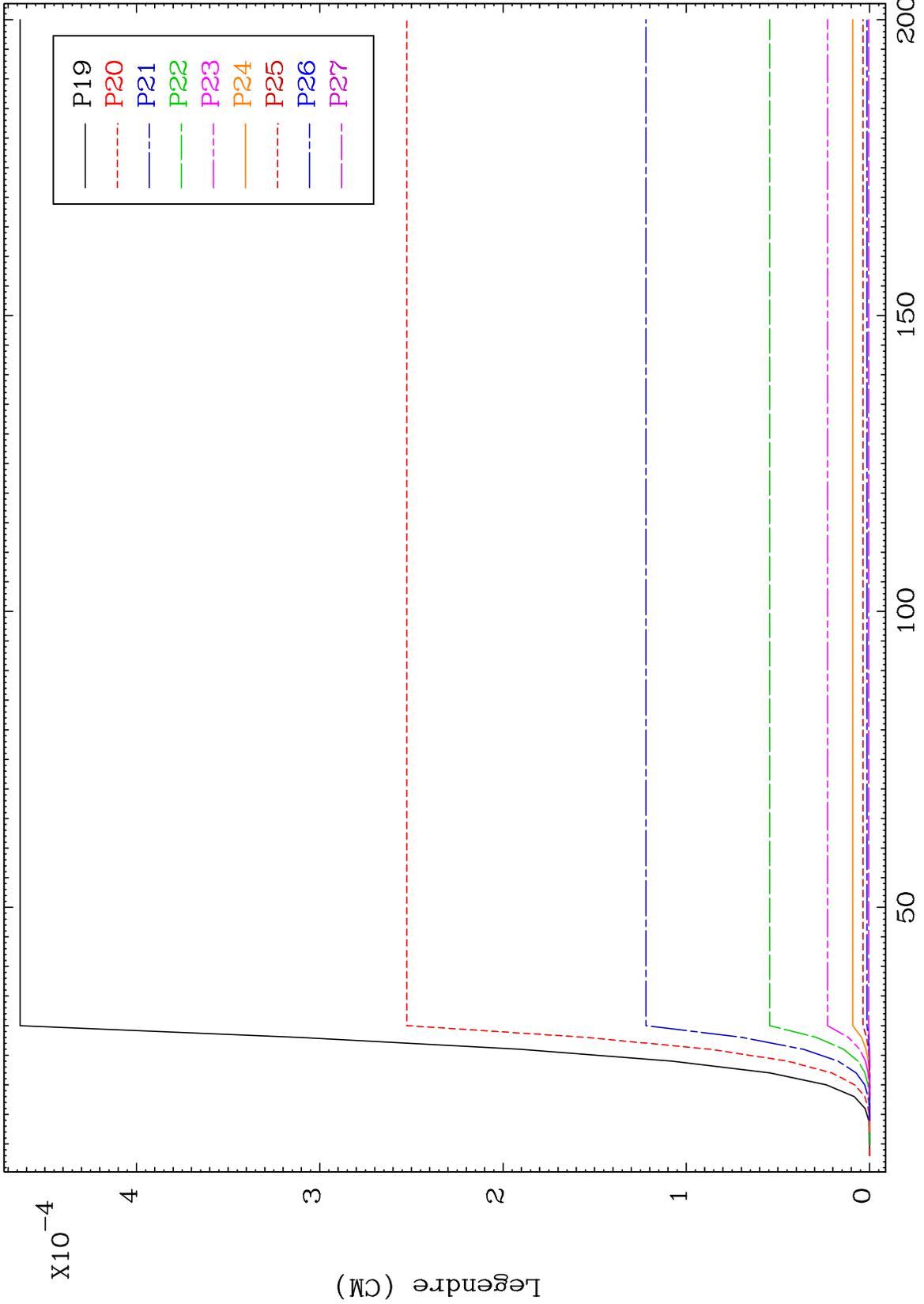
Incident Energy (MeV)

31-Ga-80

MAT 3158

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

31-Ga-80



34

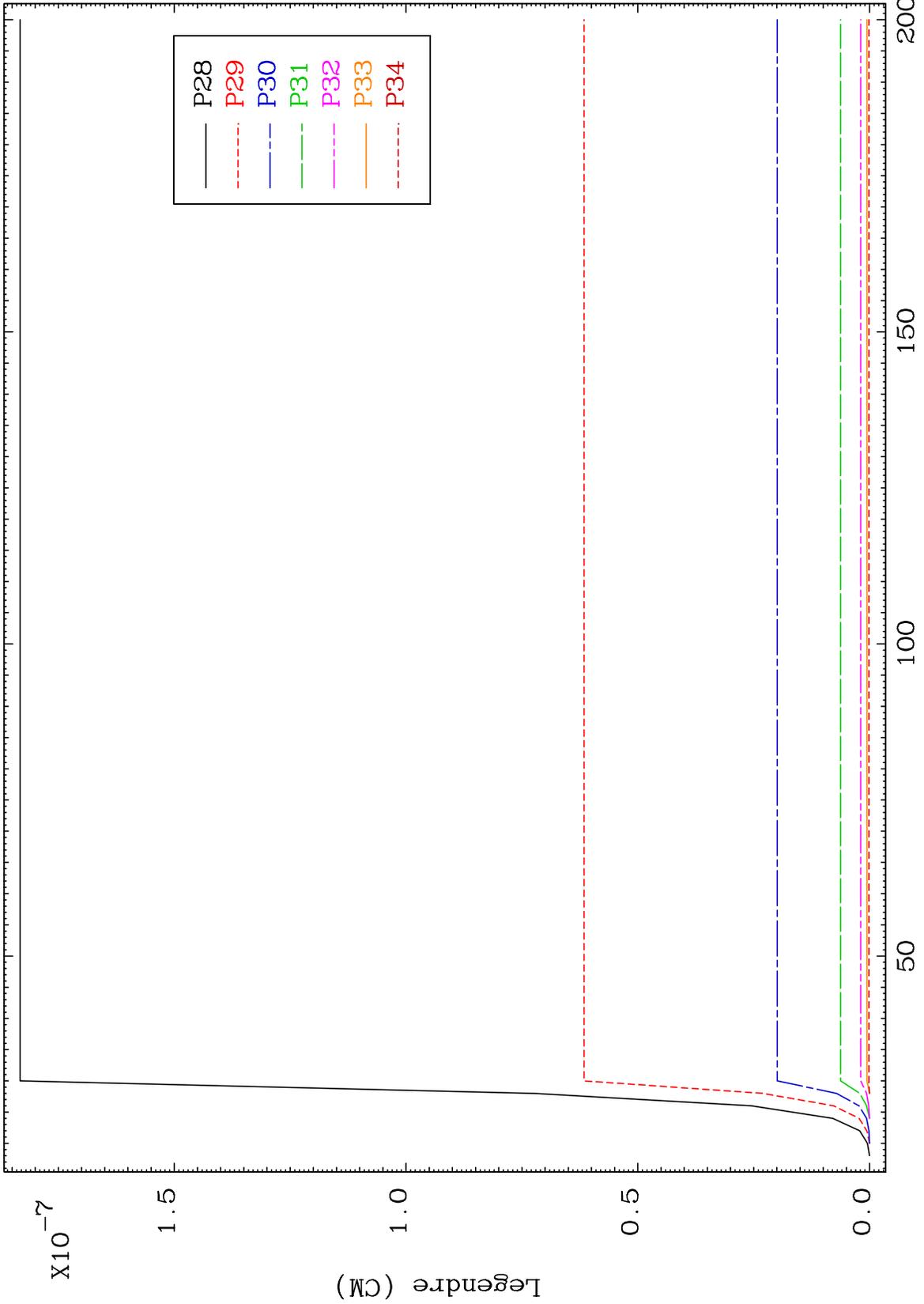
Incident Energy (MeV)

31-Ga-80

MAT 3158

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

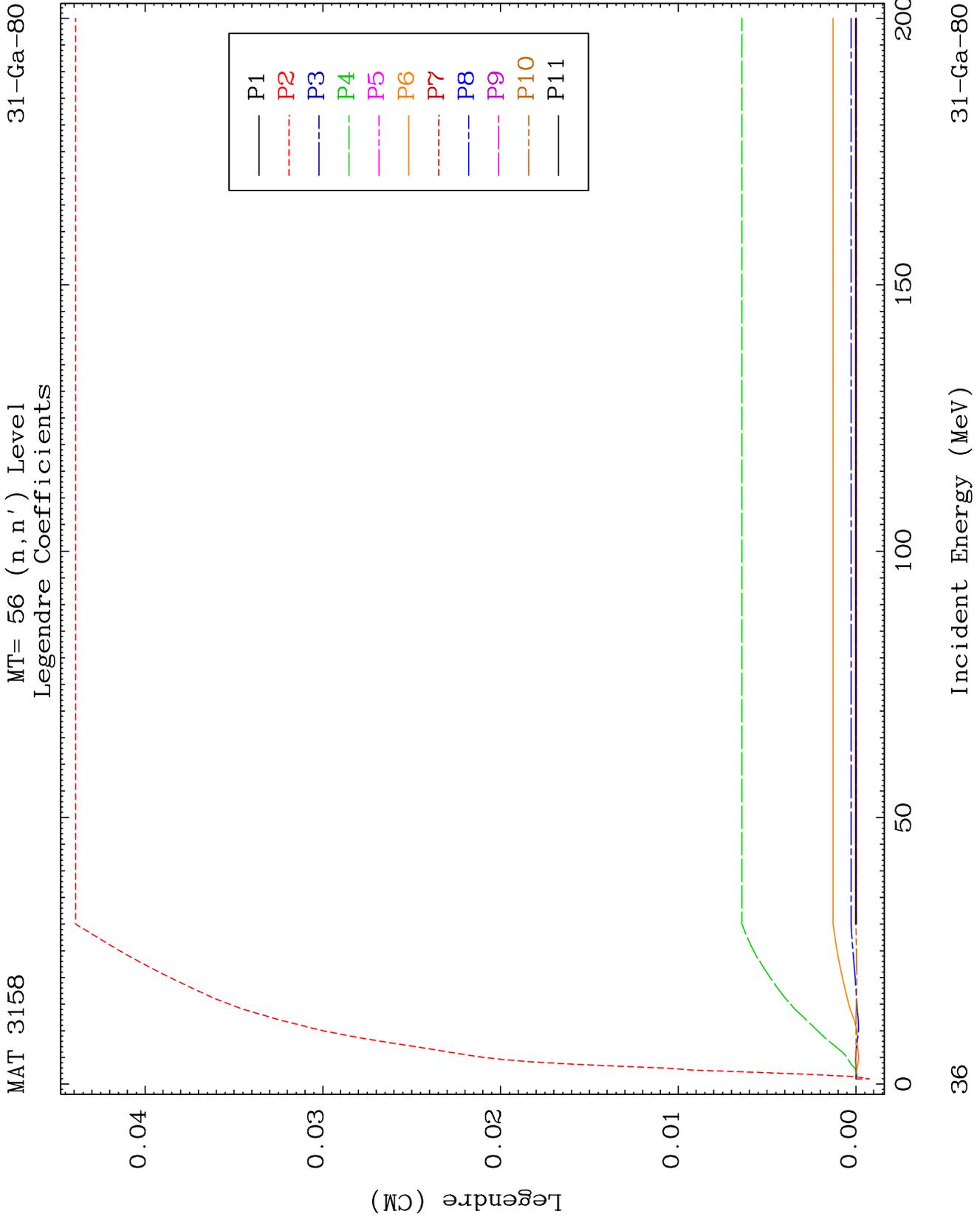
31-Ga-80



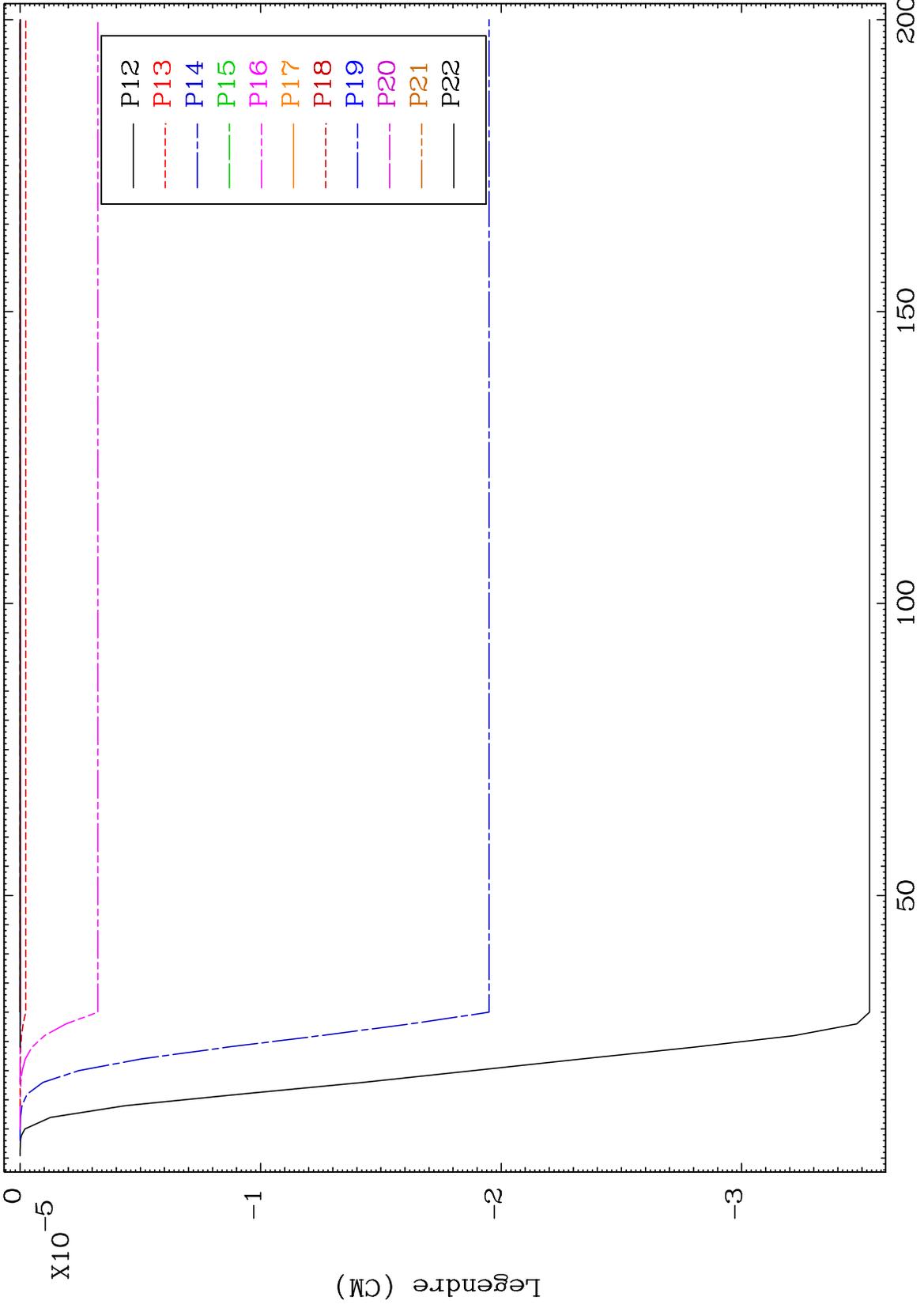
35

Incident Energy (MeV)

31-Ga-80



MAT 3158 MT= 56 (n,n') Level Legendre Coefficients 31-Ga-80

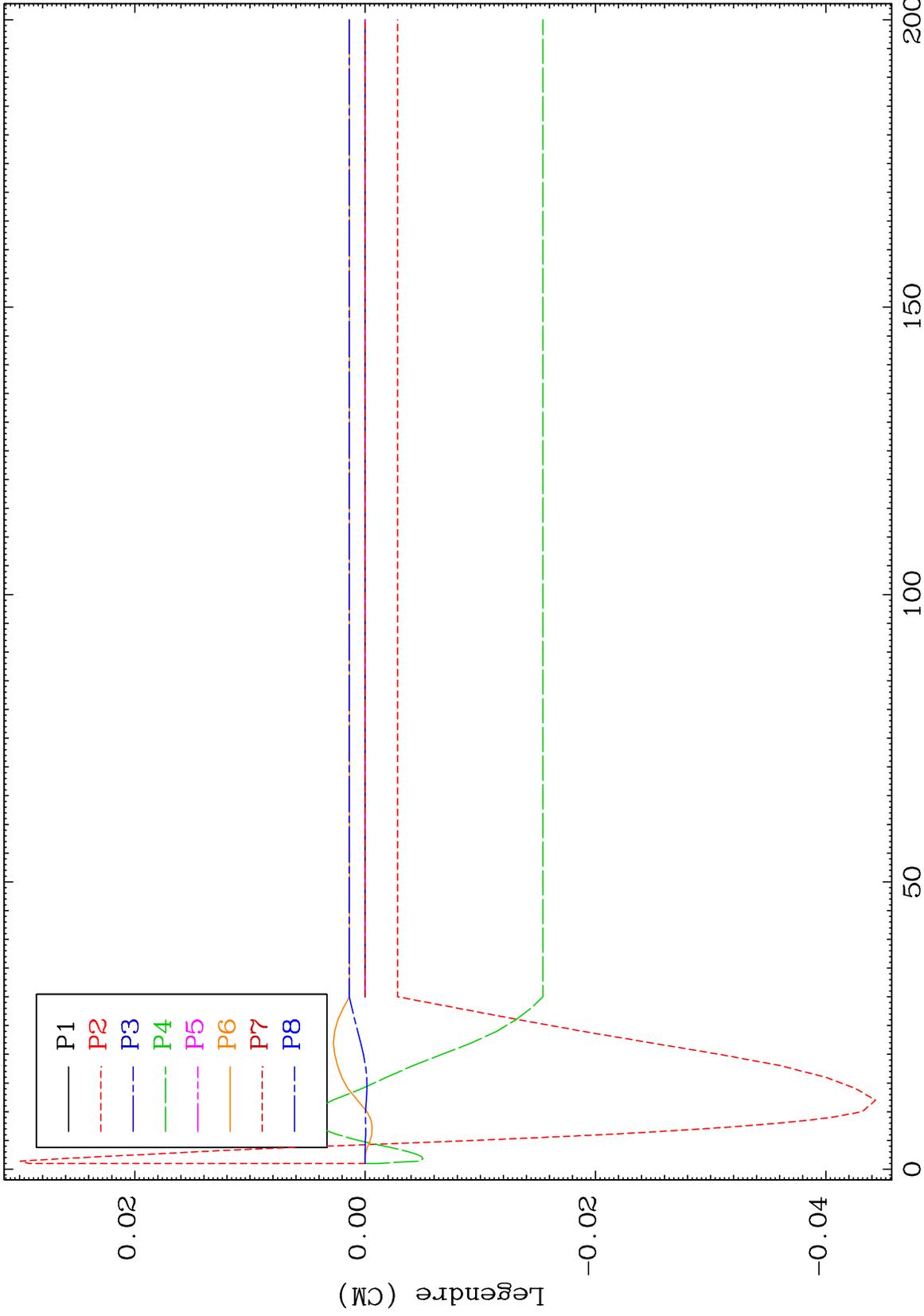


37 31-Ga-80

MAT 3158

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

31-Ga-80

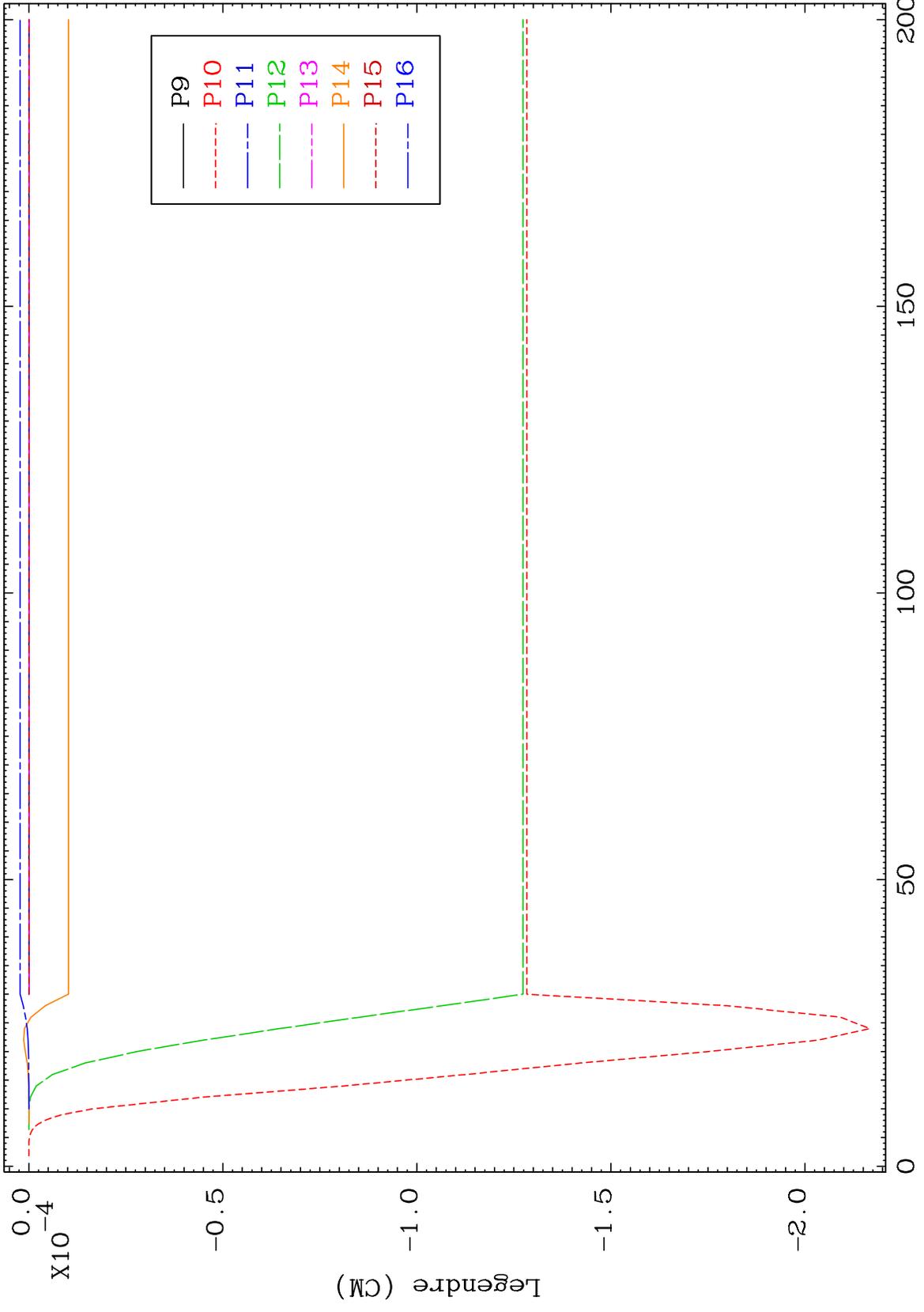


38

Incident Energy (MeV)

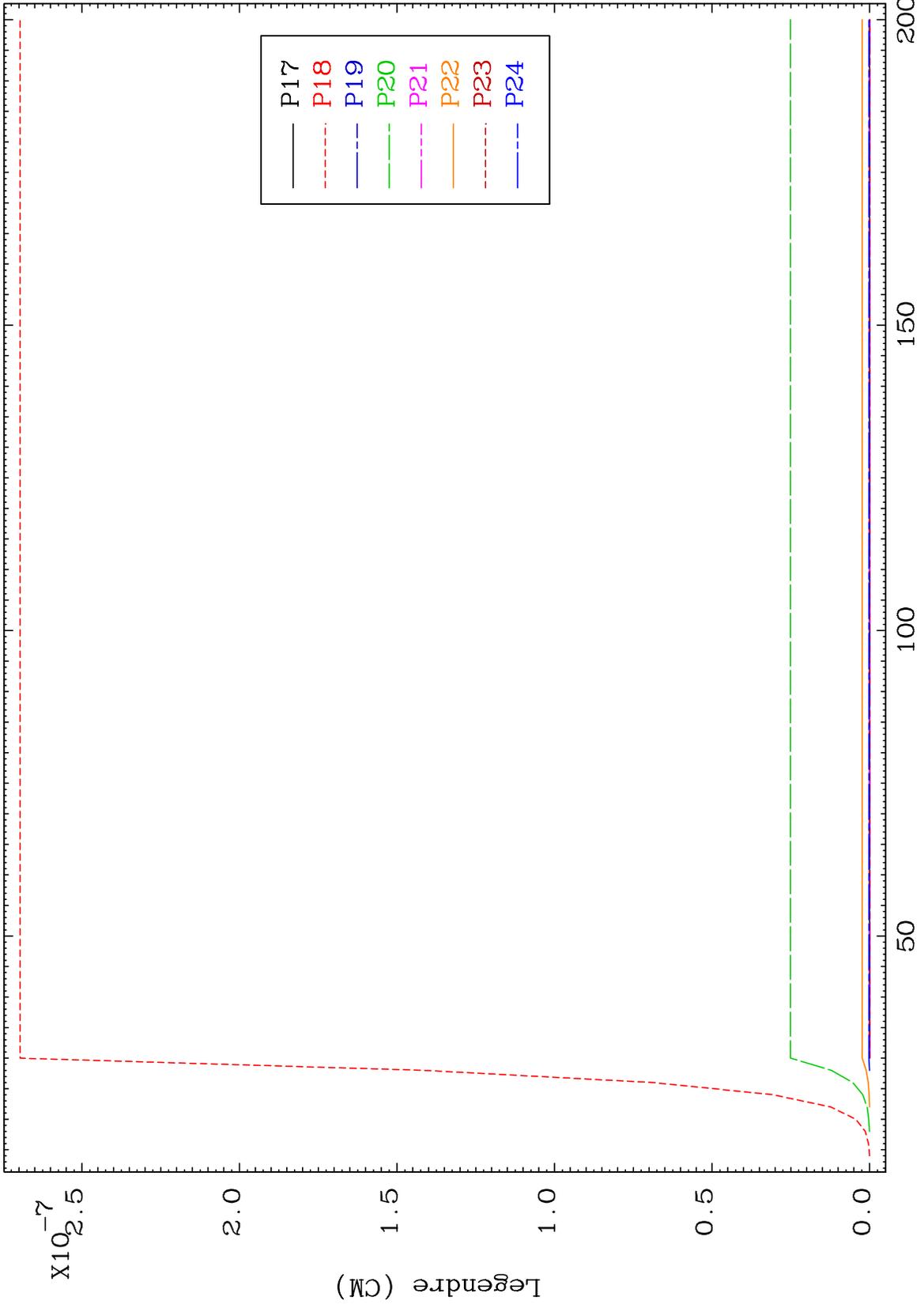
31-Ga-80

MAT 3158 MT= 57 (n,n') Level Legendre Coefficients 31-Ga-80



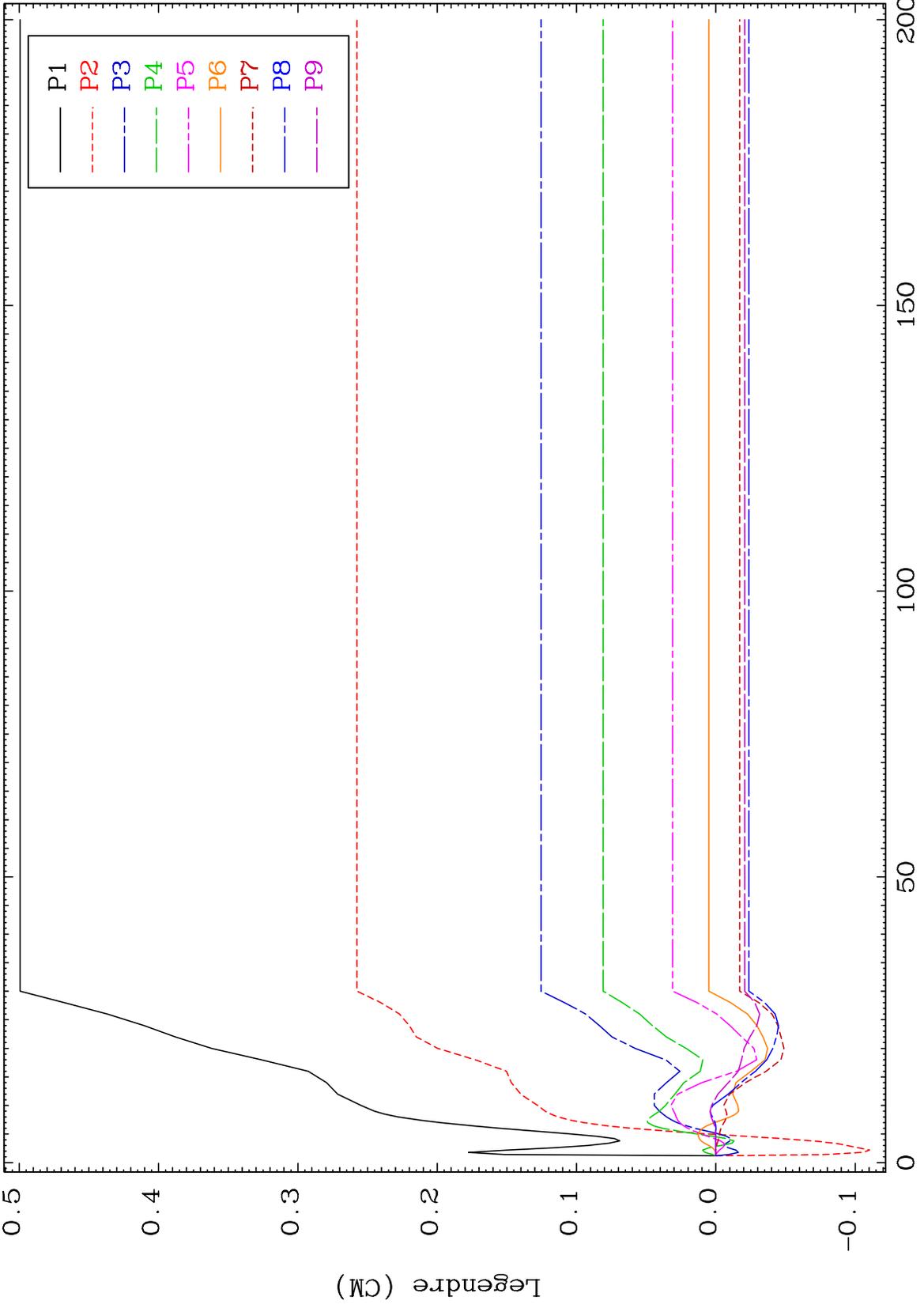
39 31-Ga-80

MAT 3158 MT= 57 (n,n') Level Legendre Coefficients 31-Ga-80



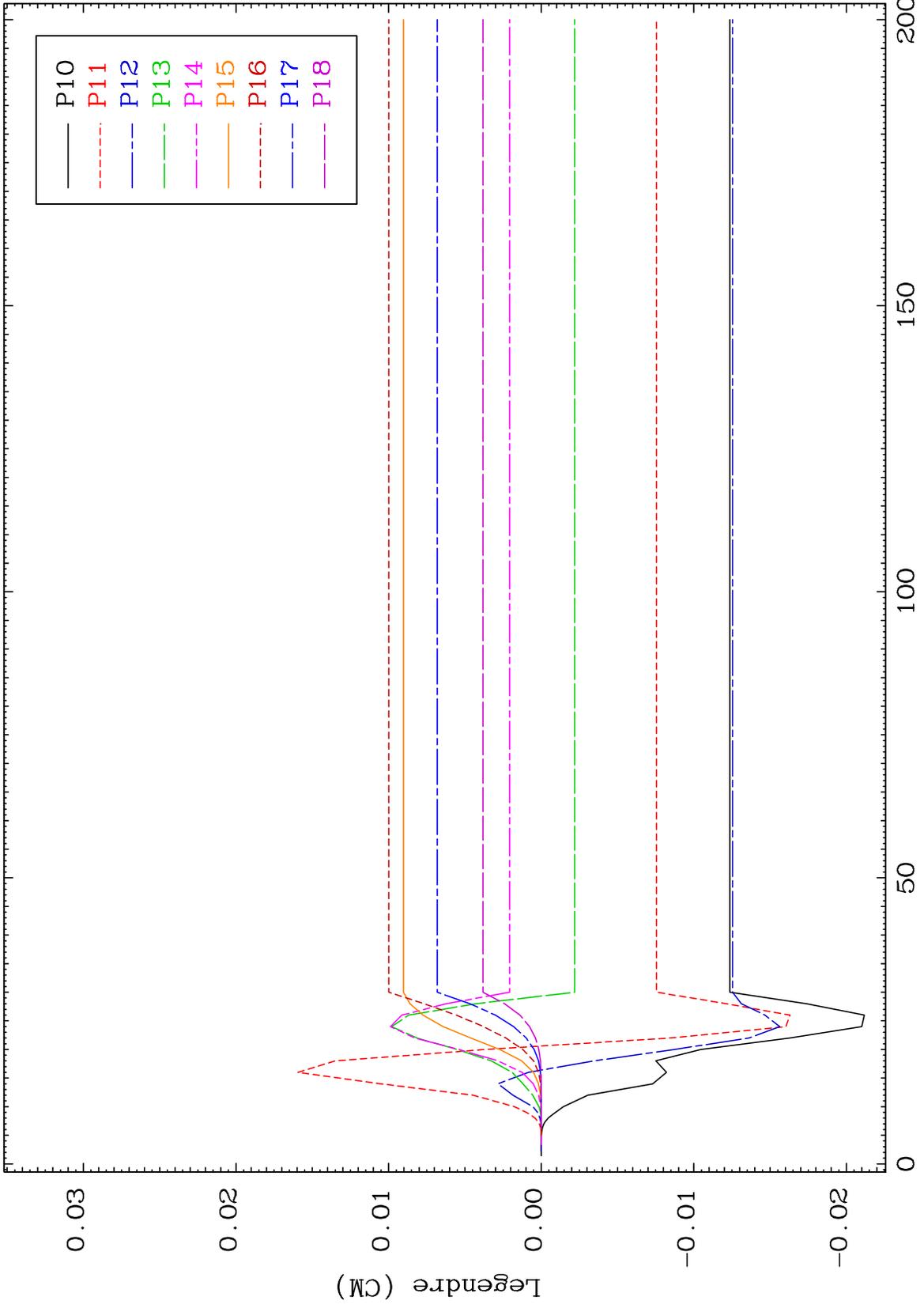
31-Ga-80

MAT 3158 MT= 58 (n,n') Level Legendre Coefficients 31-Ga-80

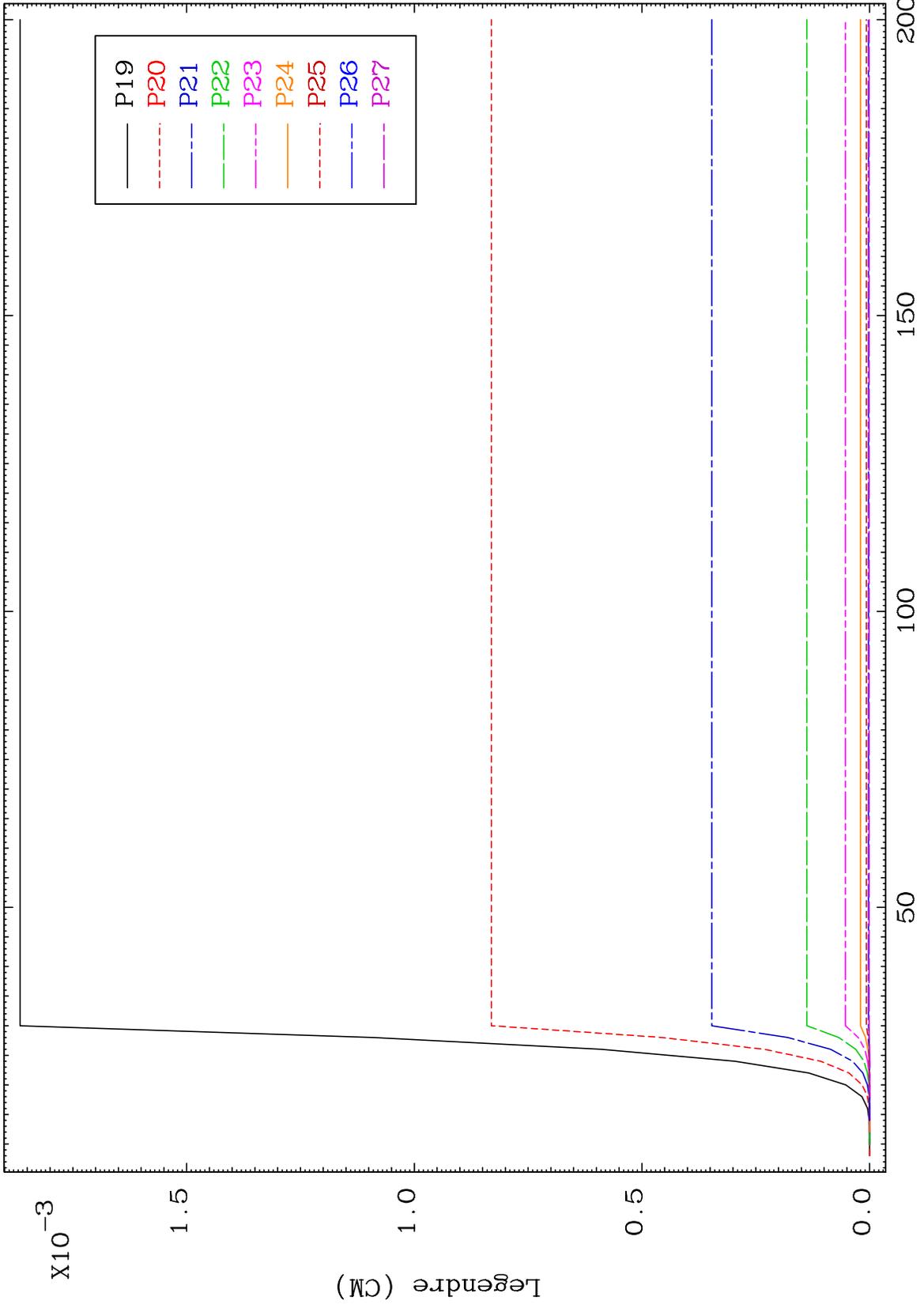


41 31-Ga-80

MAT 3158 MT= 58 (n,n') Level Legendre Coefficients 31-Ga-80



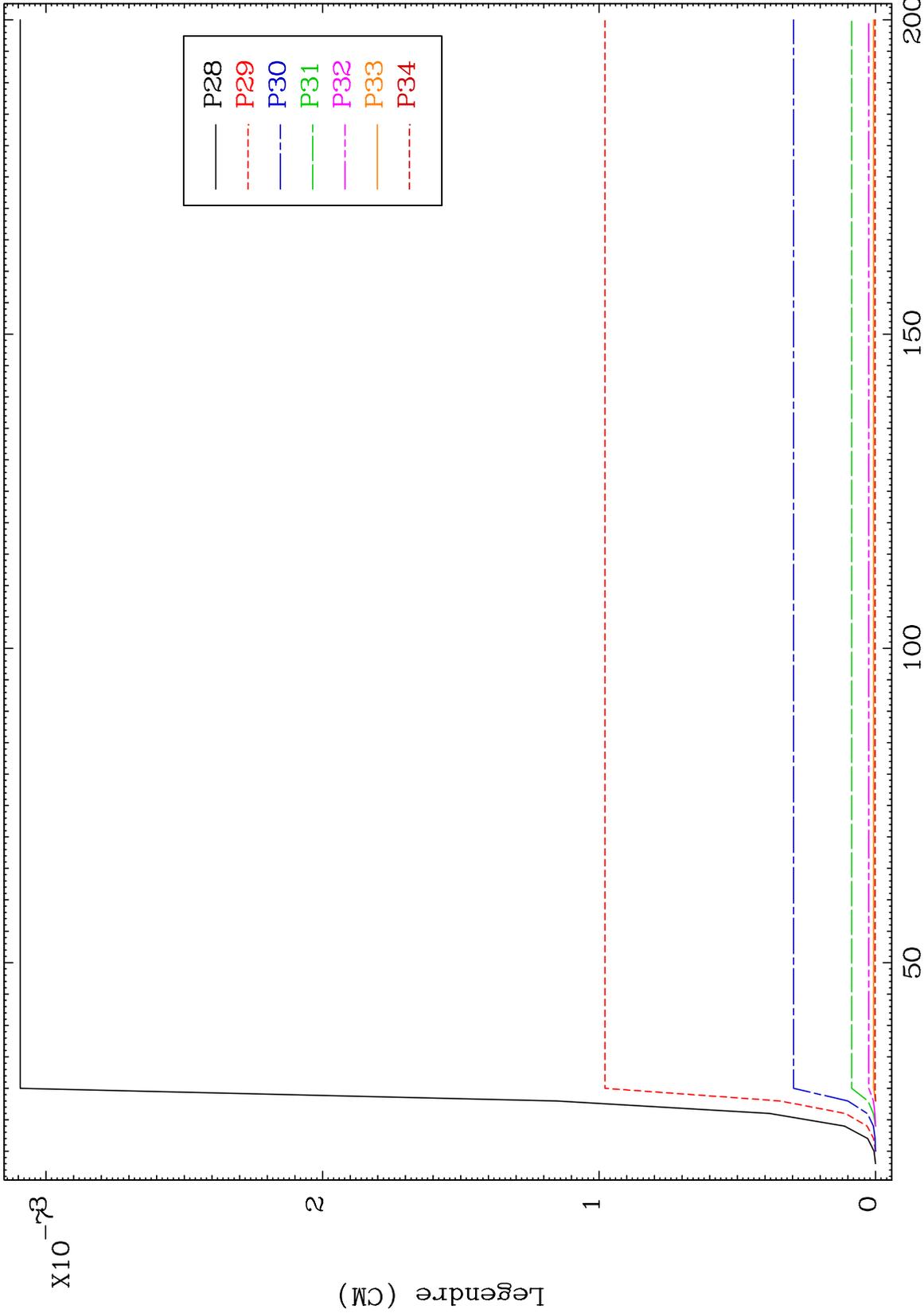
42 31-Ga-80



MAT 3158

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

31-Ga-80



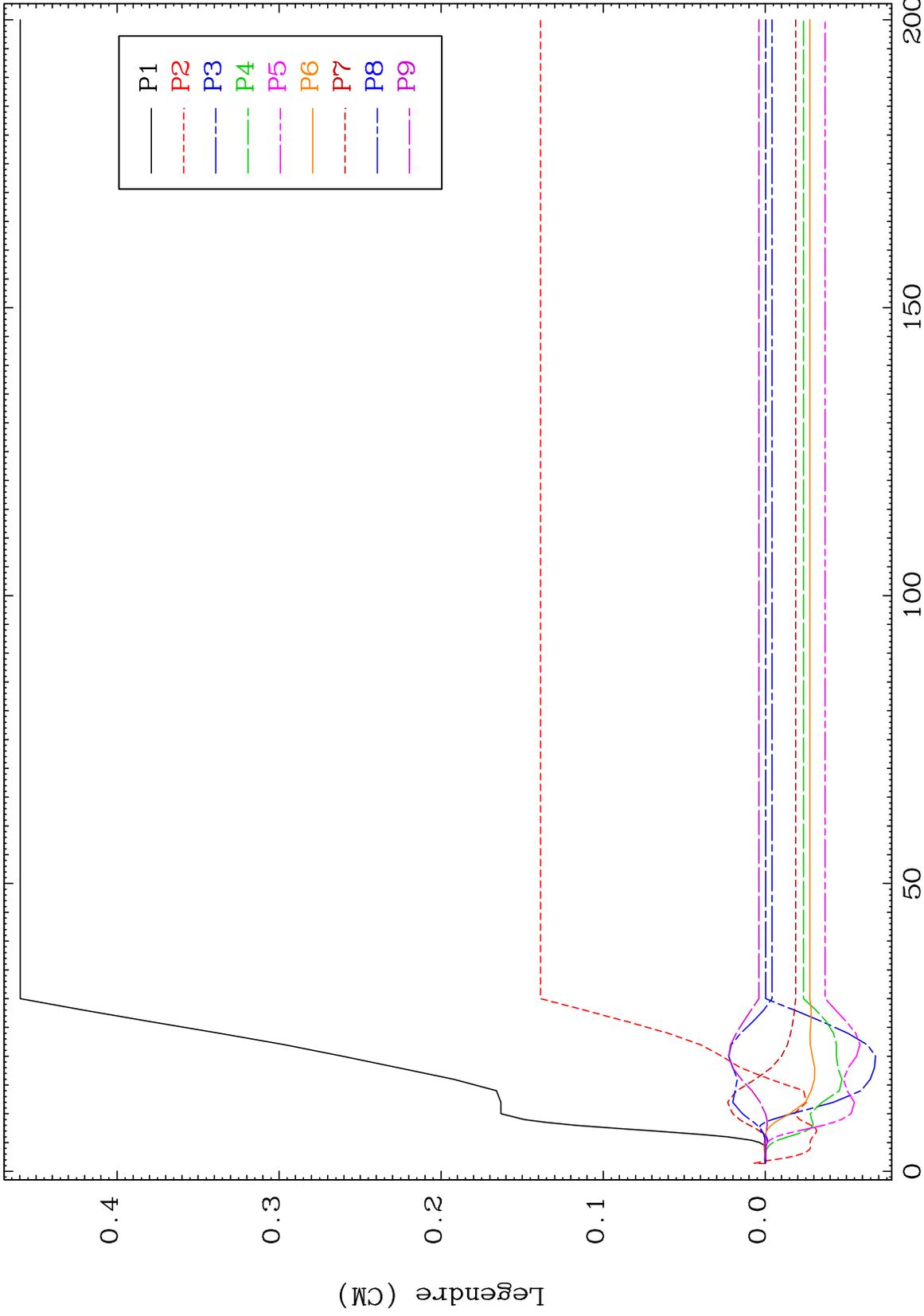
44

31-Ga-80

MAT 3158

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

31-Ga-80

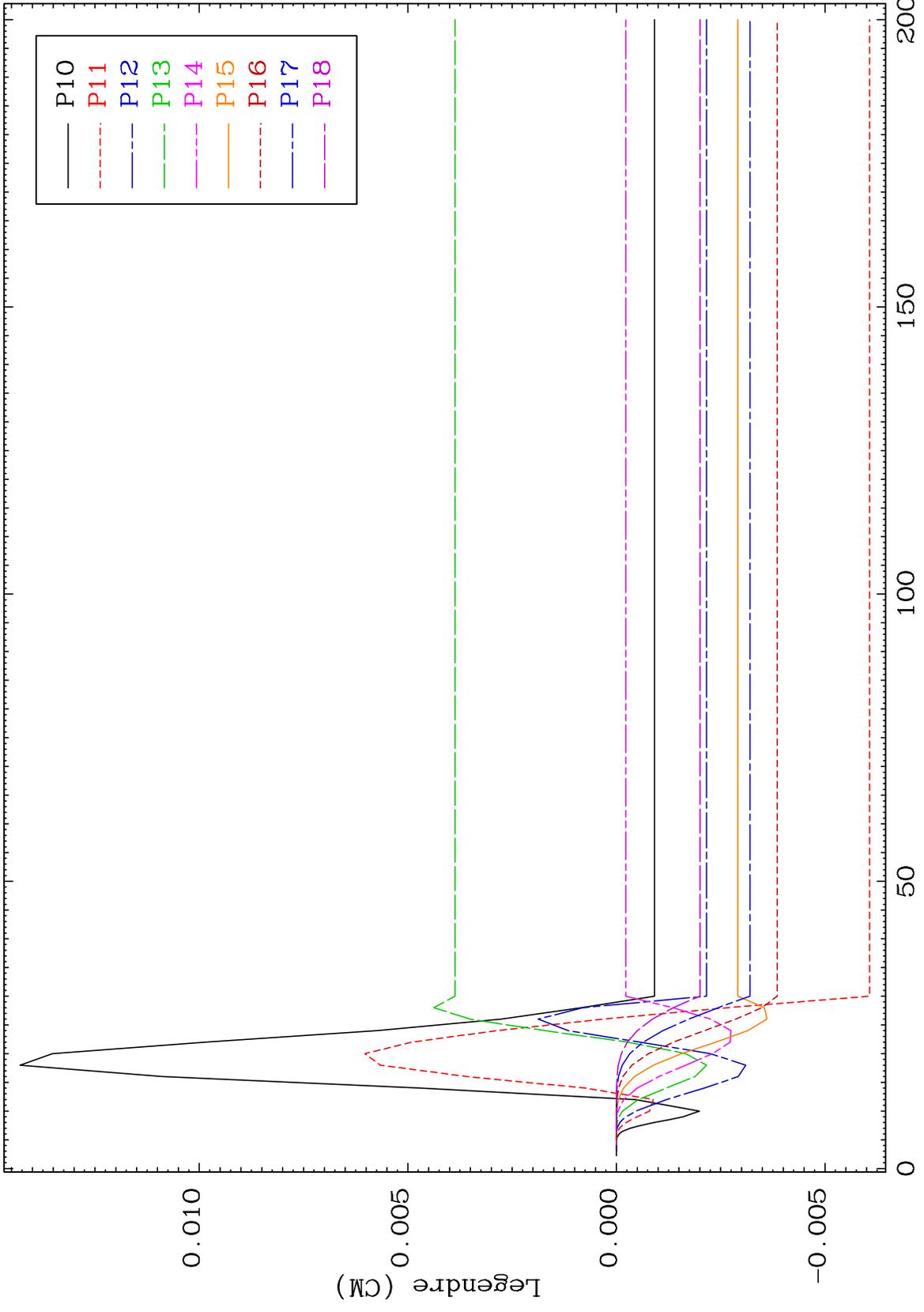


45

Incident Energy (MeV)

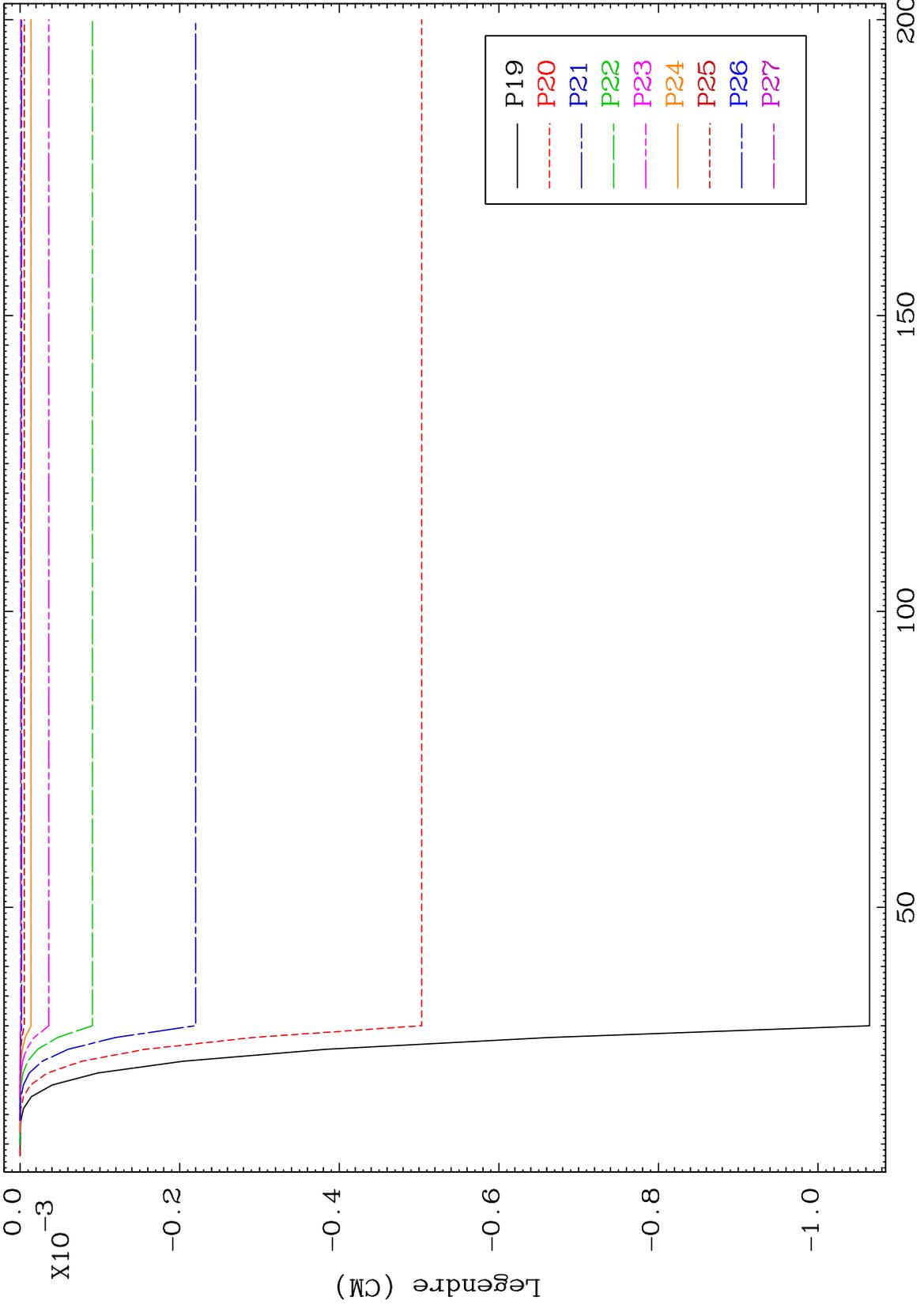
31-Ga-80

MAT 3158 MT= 59 (n,n') Level Legendre Coefficients 31-Ga-80



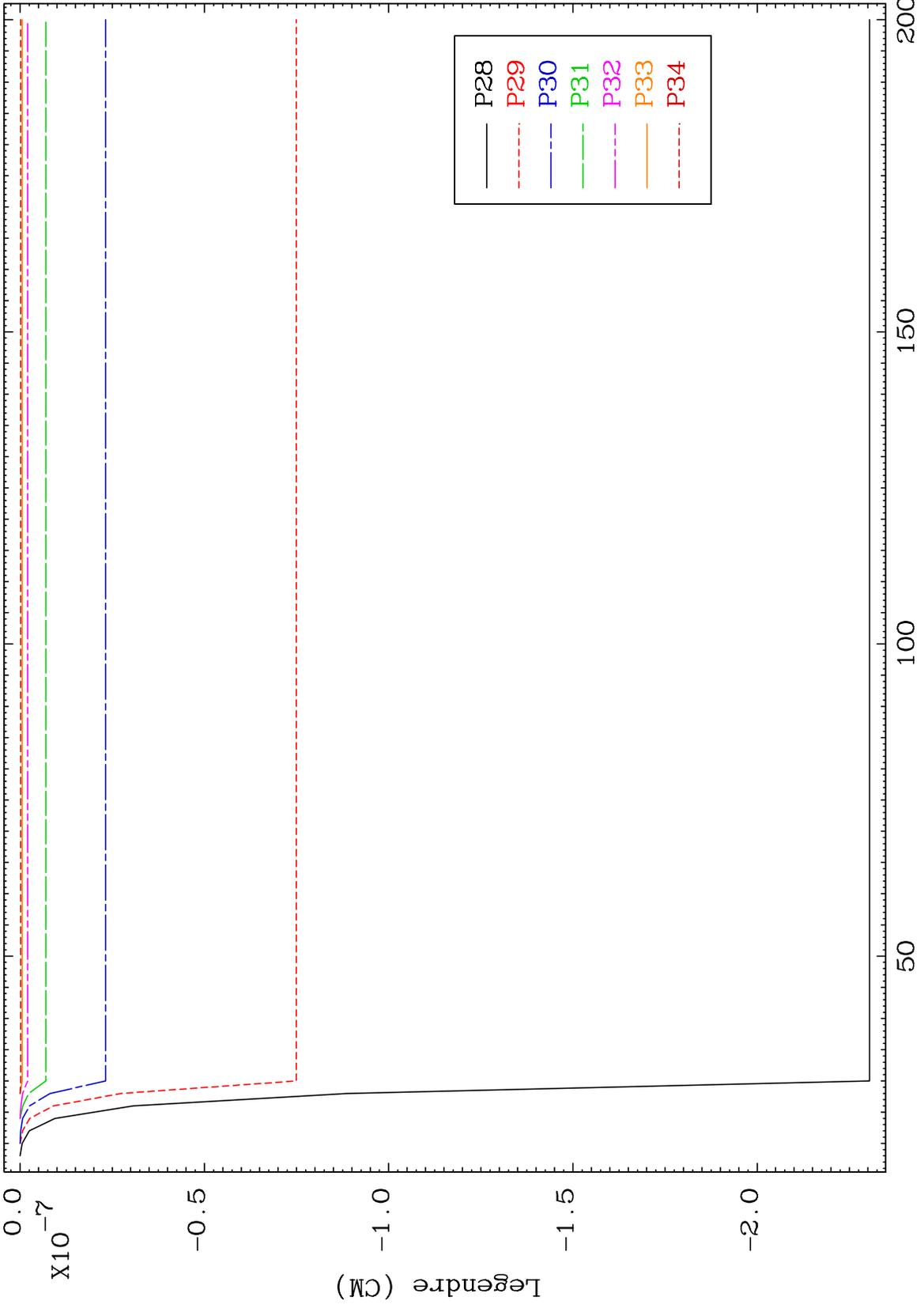
46 31-Ga-80

MAT 3158 MT= 59 (n,n') Level Legendre Coefficients 31-Ga-80



47 31-Ga-80

MAT 3158 MT= 59 (n,n') Level Legendre Coefficients 31-Ga-80

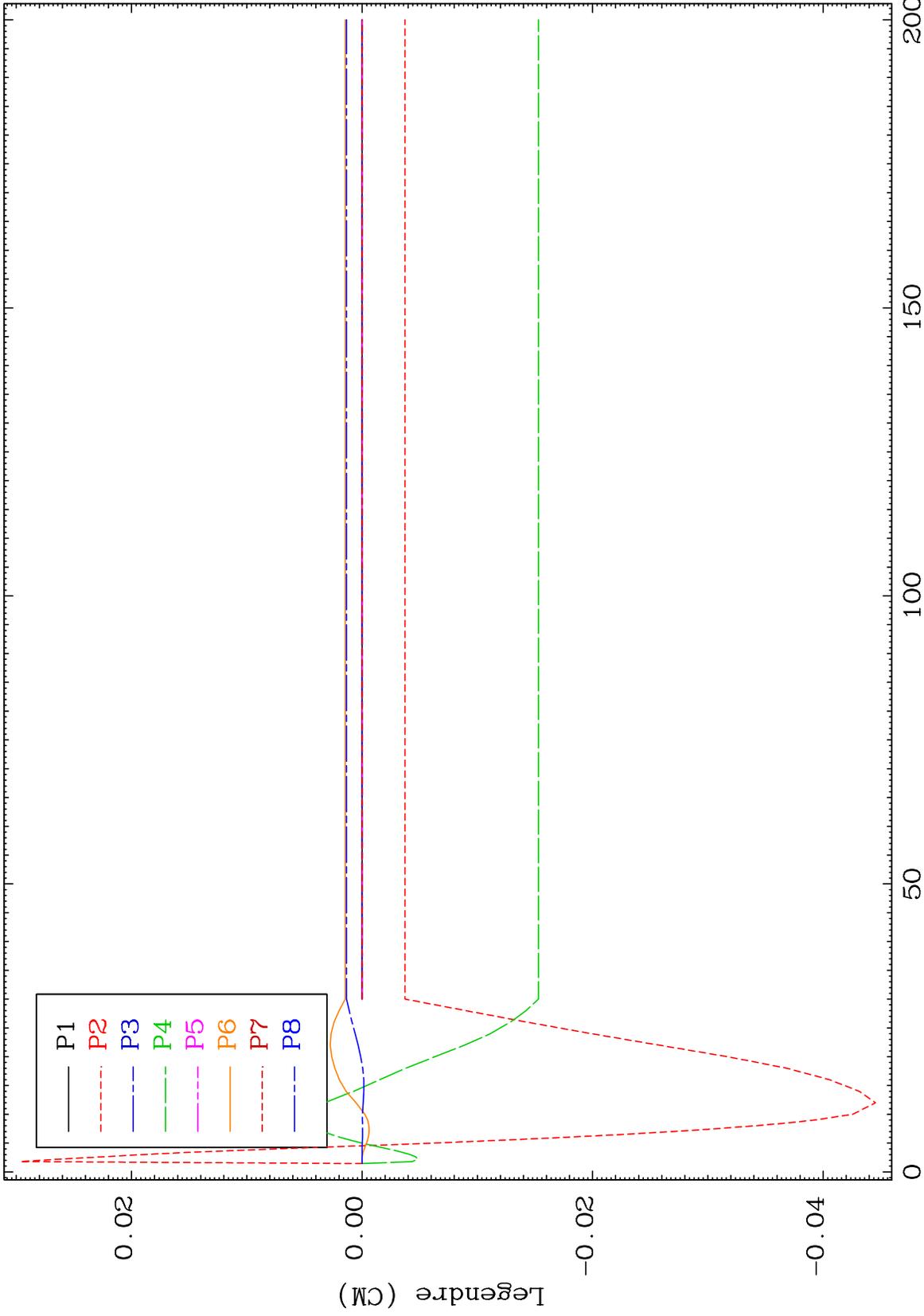


48 31-Ga-80

MAT 3158

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

31-Ga-80



49

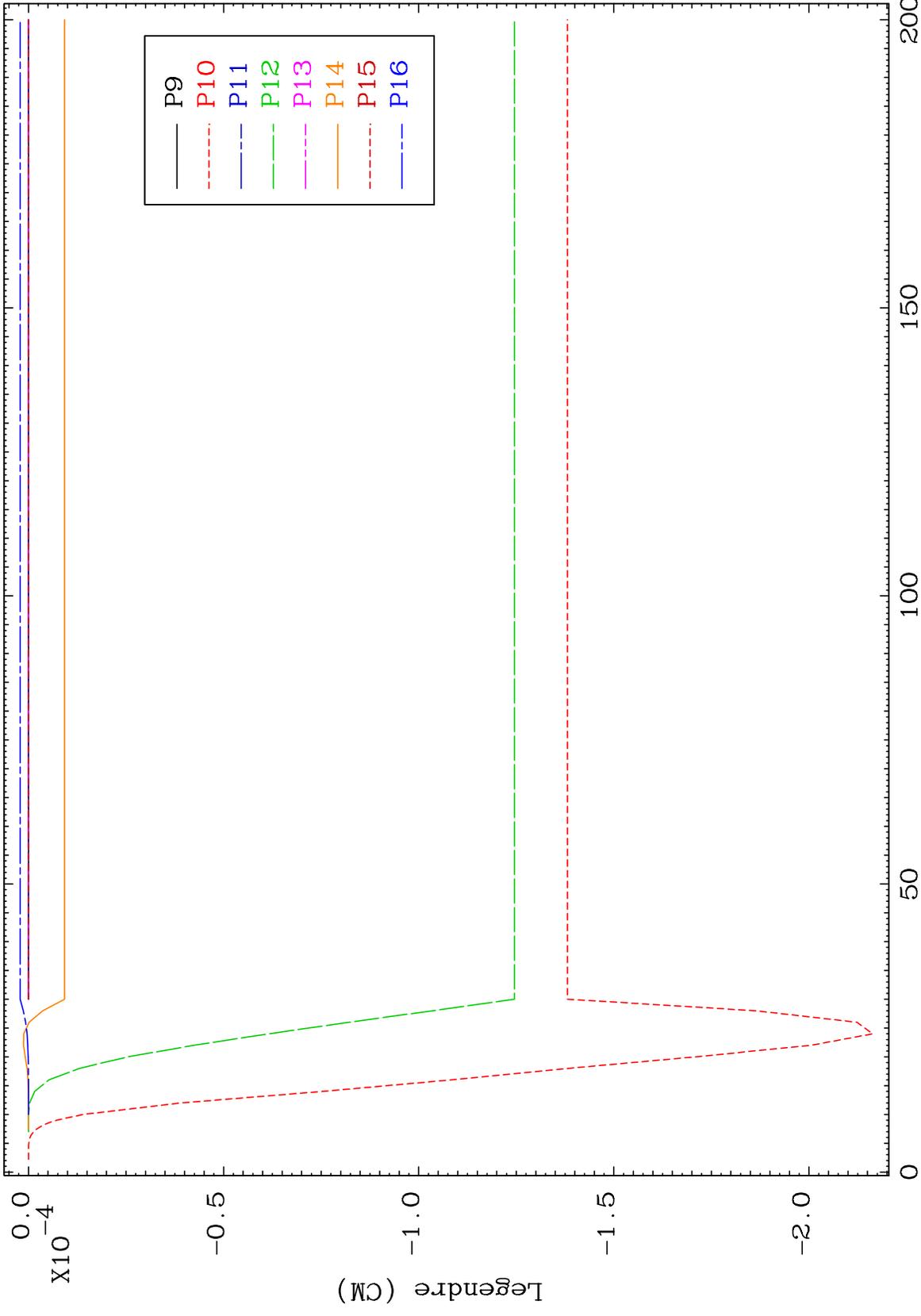
Incident Energy (MeV)

31-Ga-80

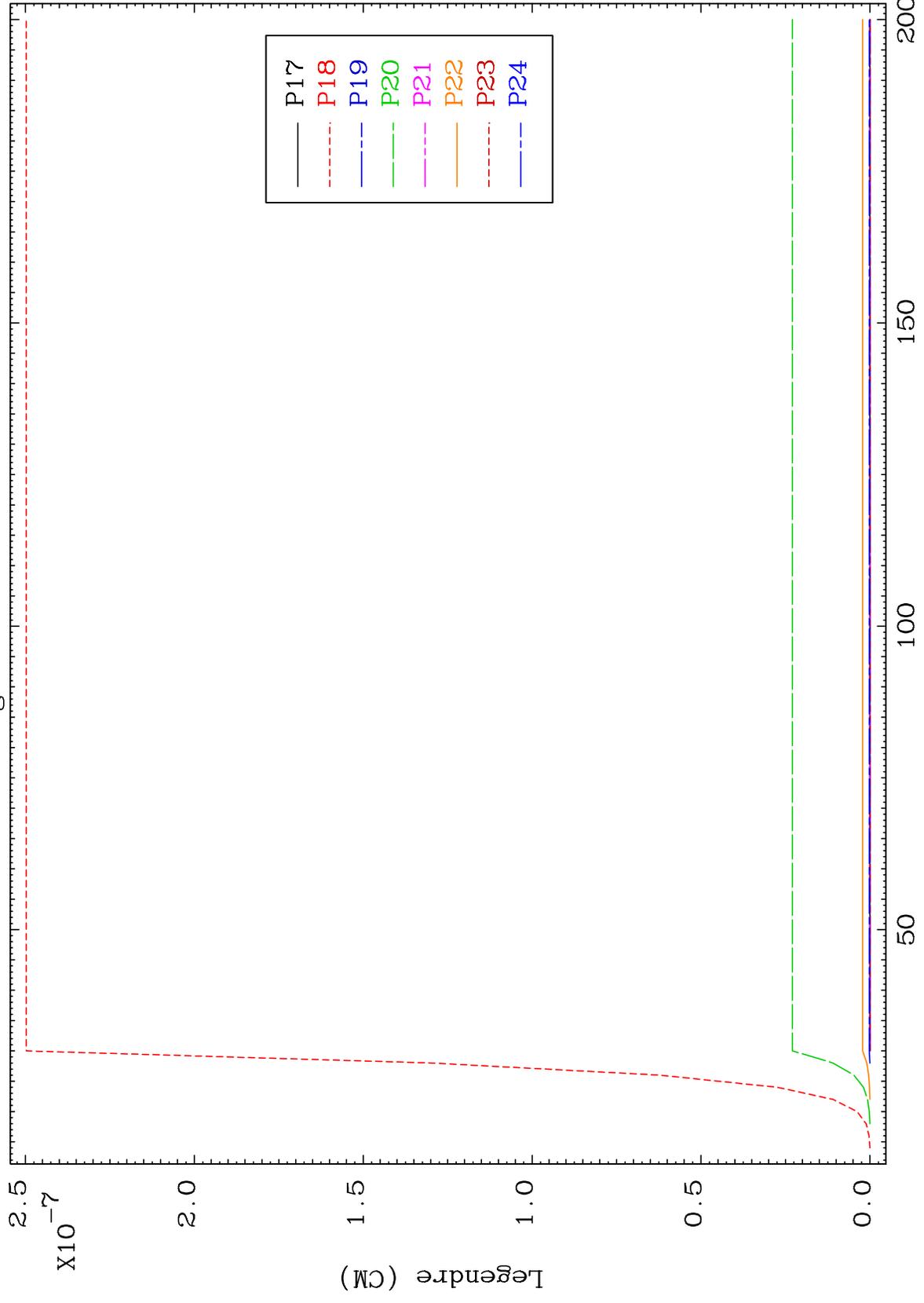
MAT 3158

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

31-Ga-80



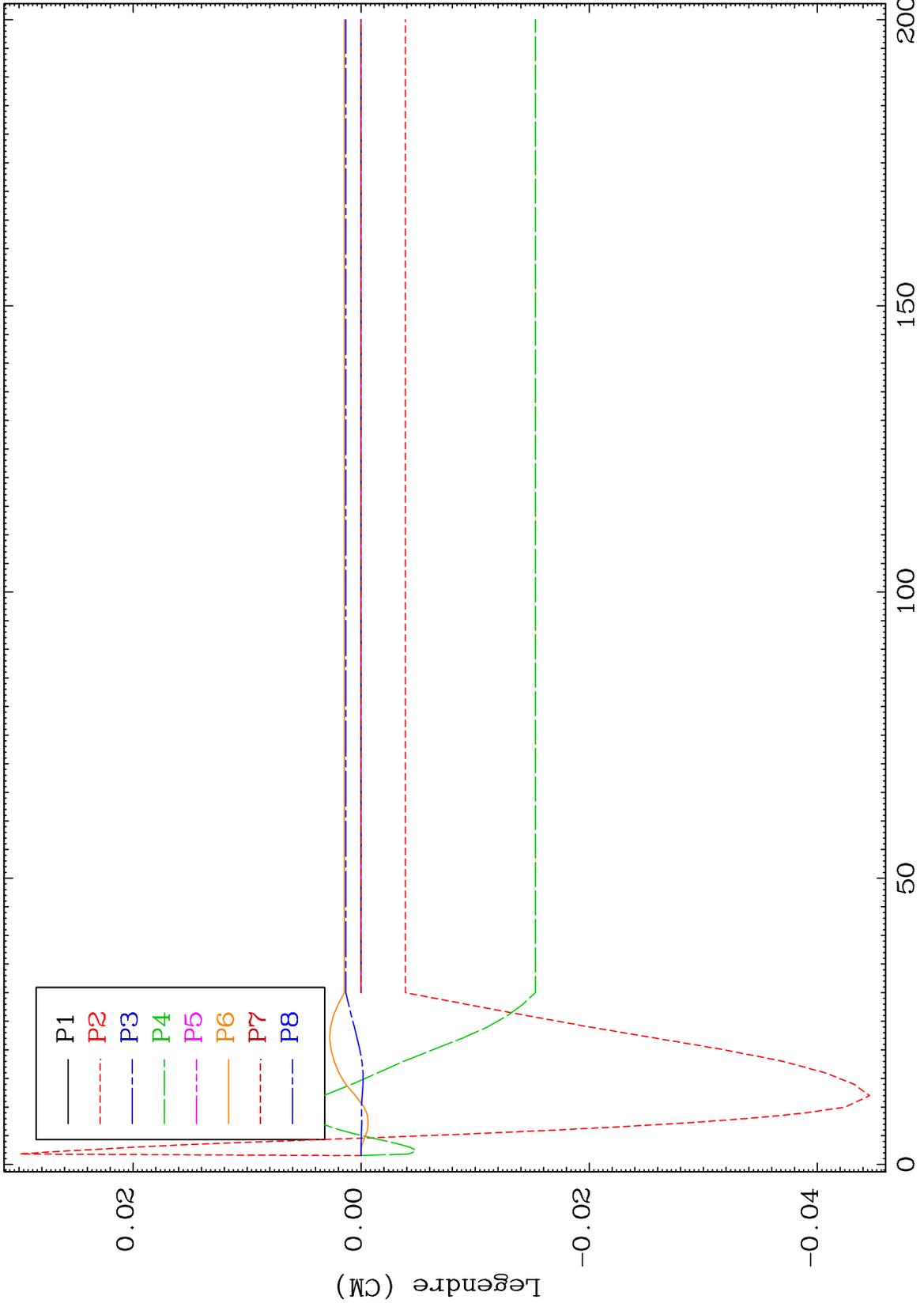
MAT 3158 MT= 60 (n,n') Level Legendre Coefficients 31-Ga-80



MAT 3158

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

31-Ga-80



52

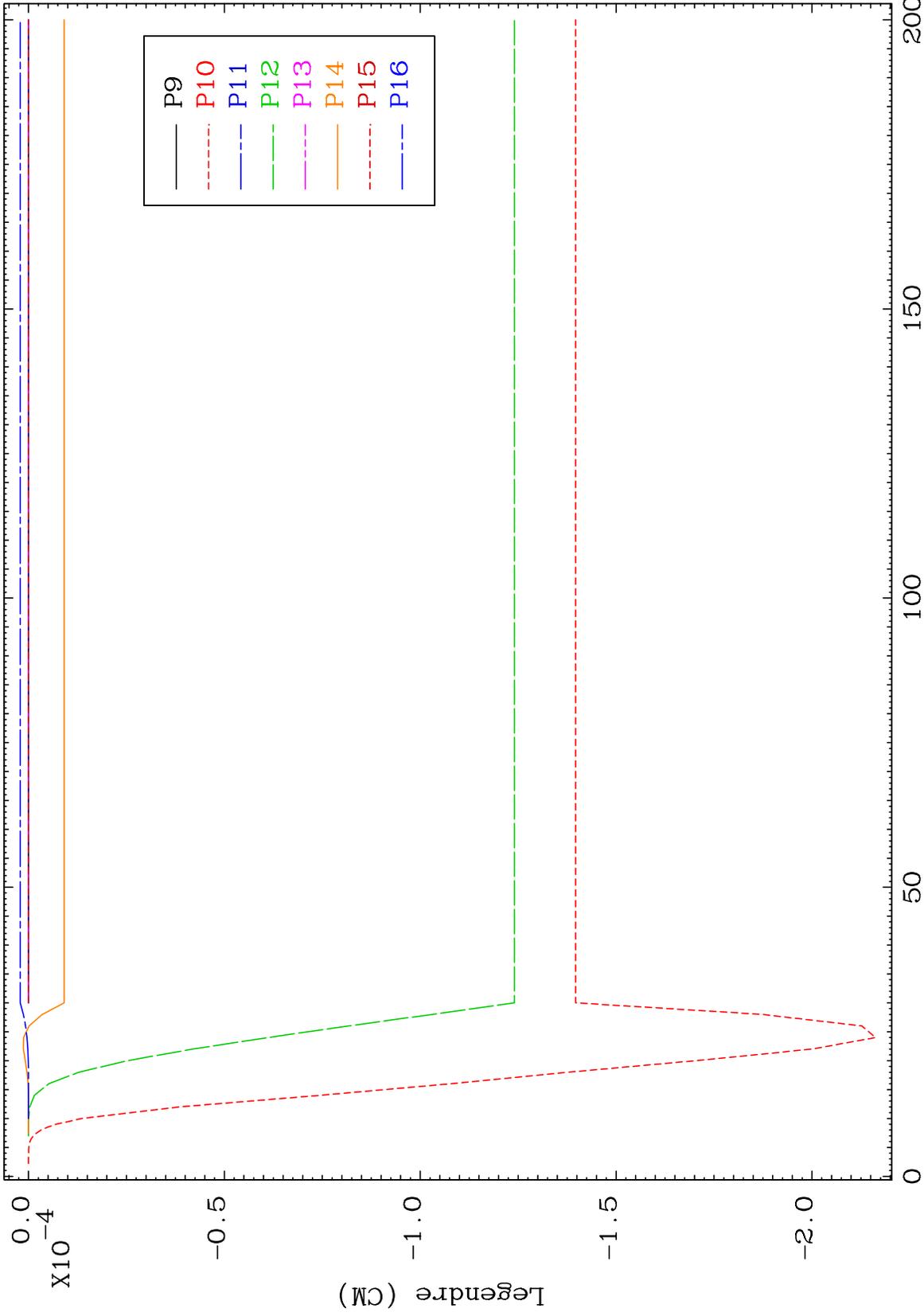
Incident Energy (MeV)

31-Ga-80

MAT 3158

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

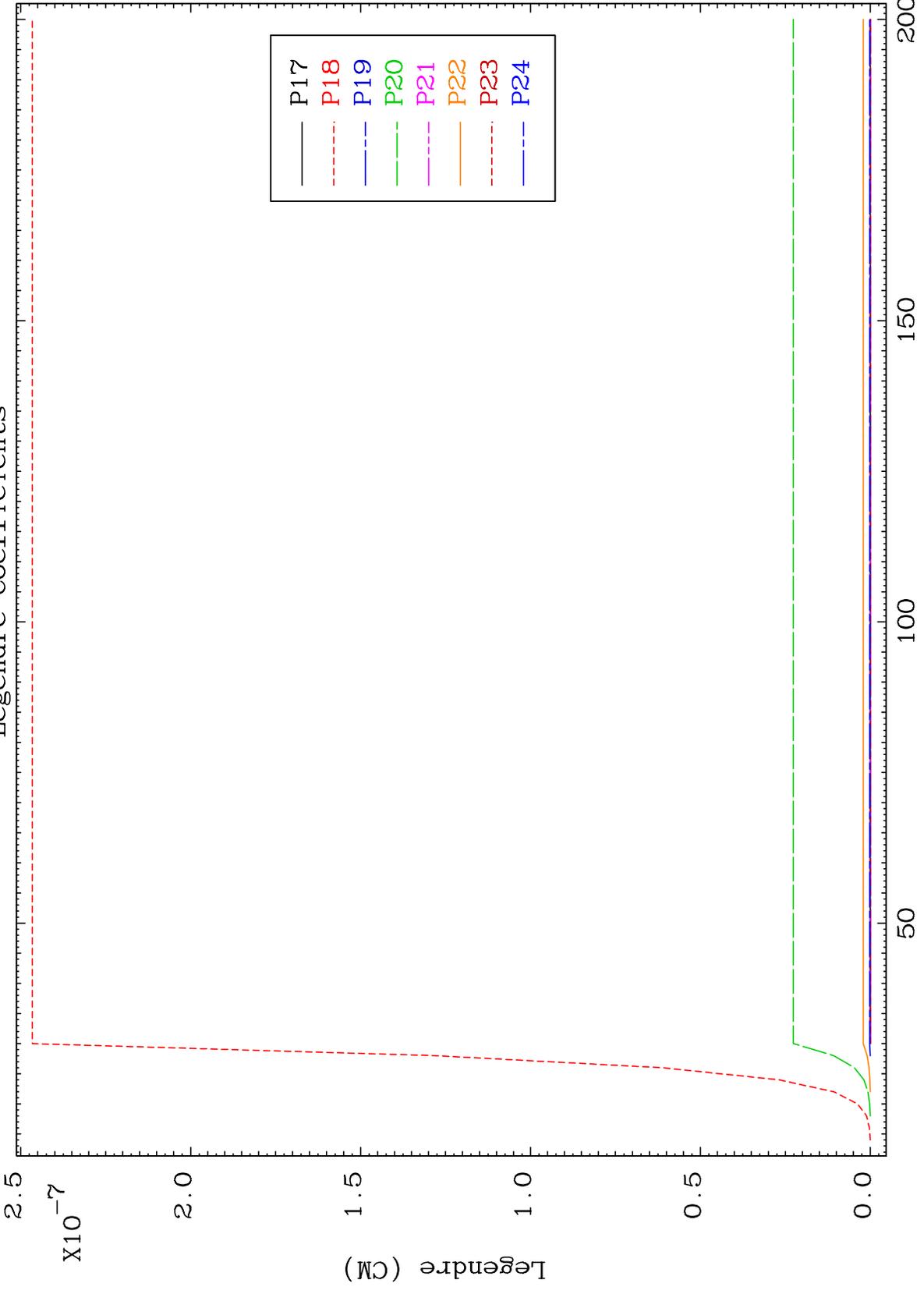
31-Ga-80



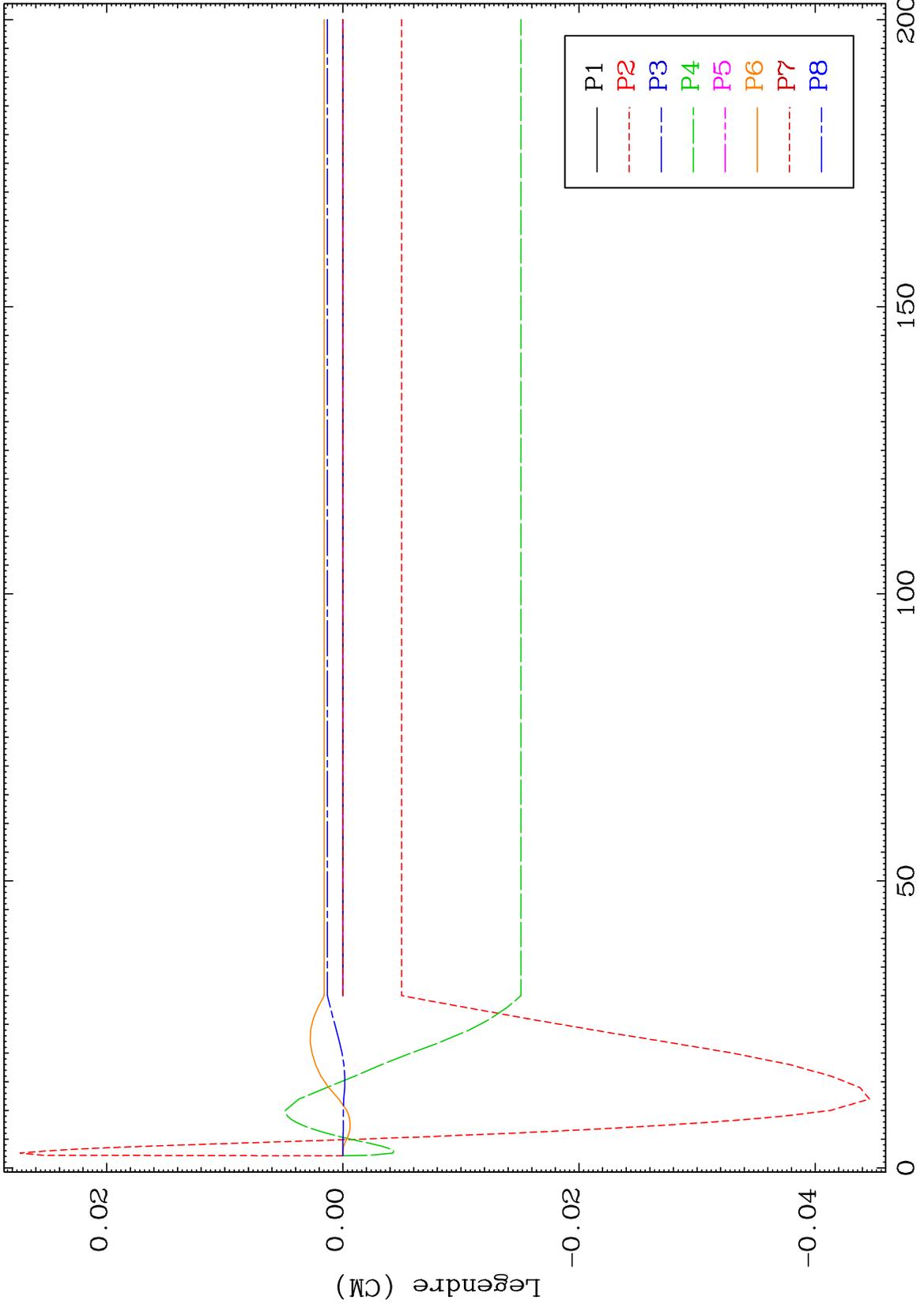
53

31-Ga-80

MAT 3158 MT= 61 (n,n') Level Legendre Coefficients 31-Ga-80

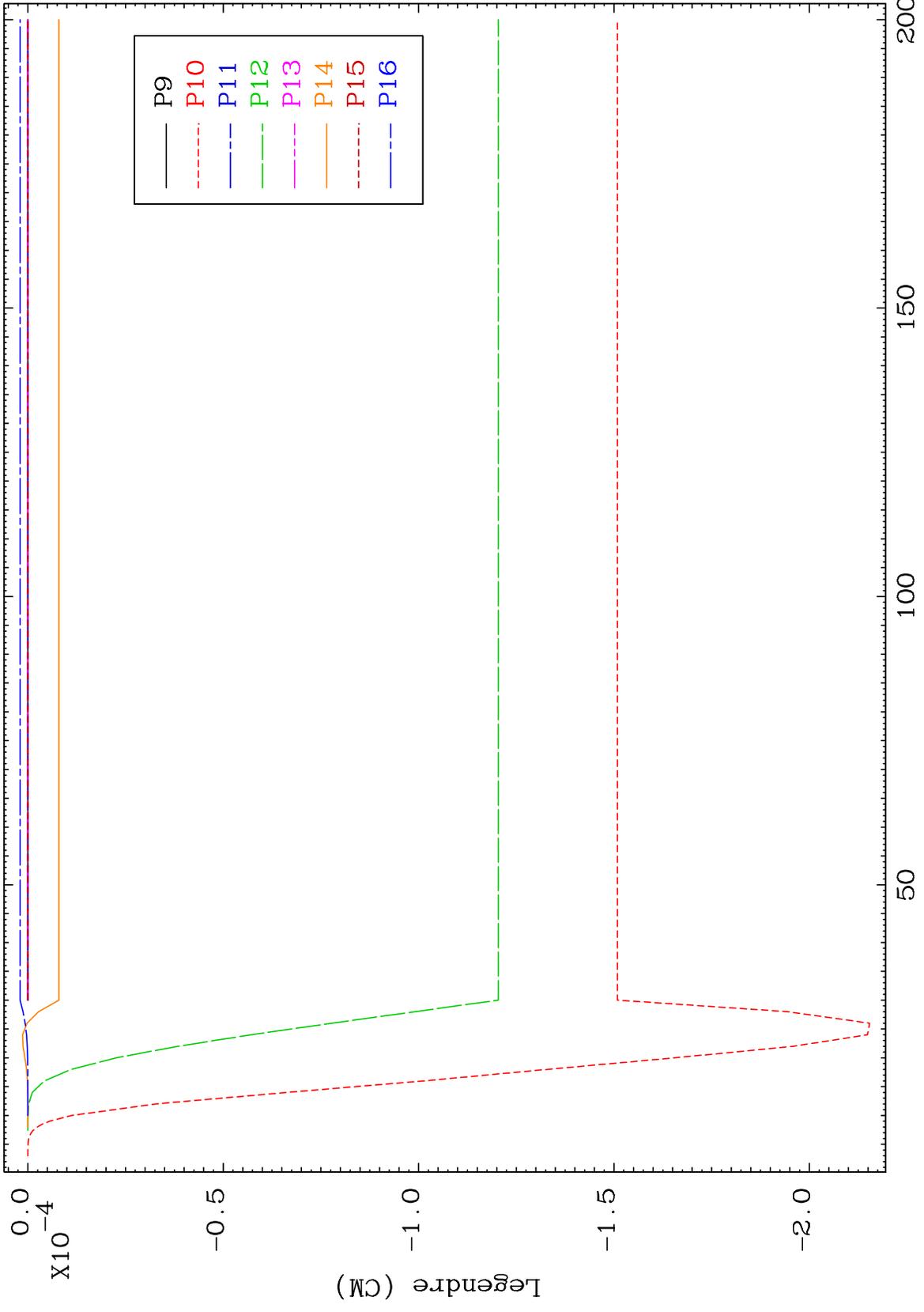


MAT 3158 MT= 62 (n,n') Level Legendre Coefficients 31-Ga-80



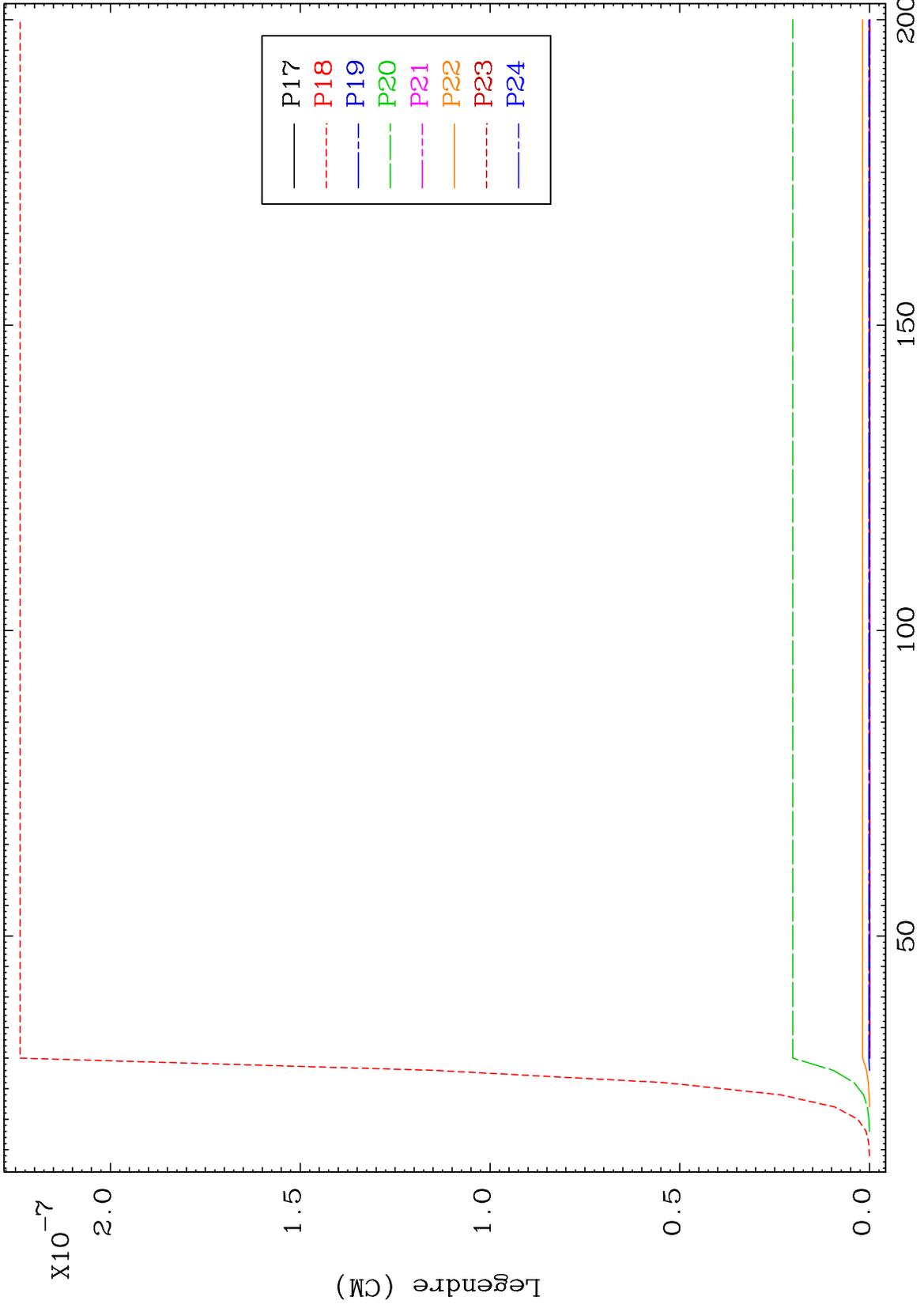
31-Ga-80

MAT 3158 MT= 62 (n,n') Level Legendre Coefficients 31-Ga-80



56 31-Ga-80

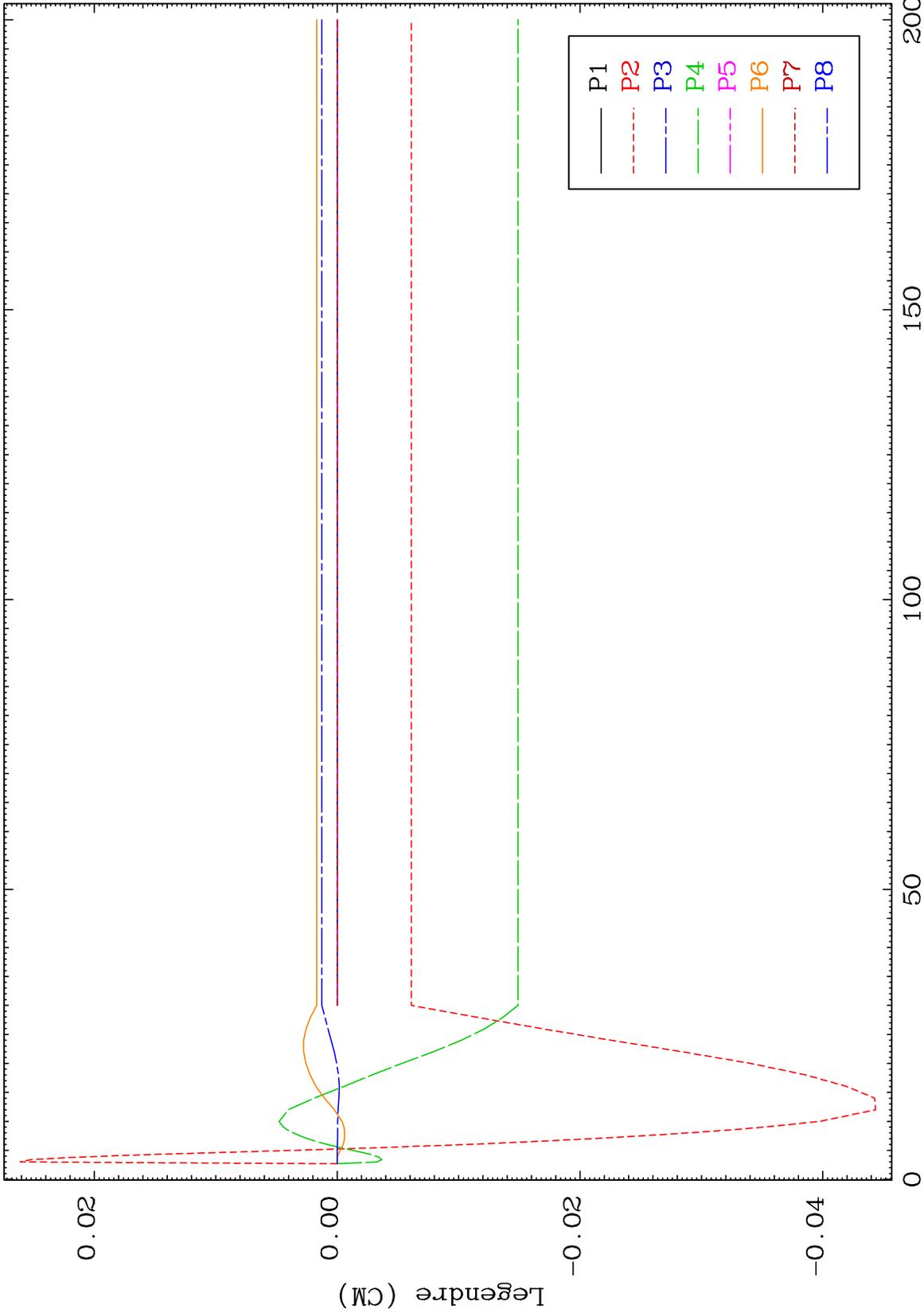
MAT 3158 MT= 62 (n,n') Level Legendre Coefficients 31-Ga-80



MAT 3158

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

31-Ga-80



58

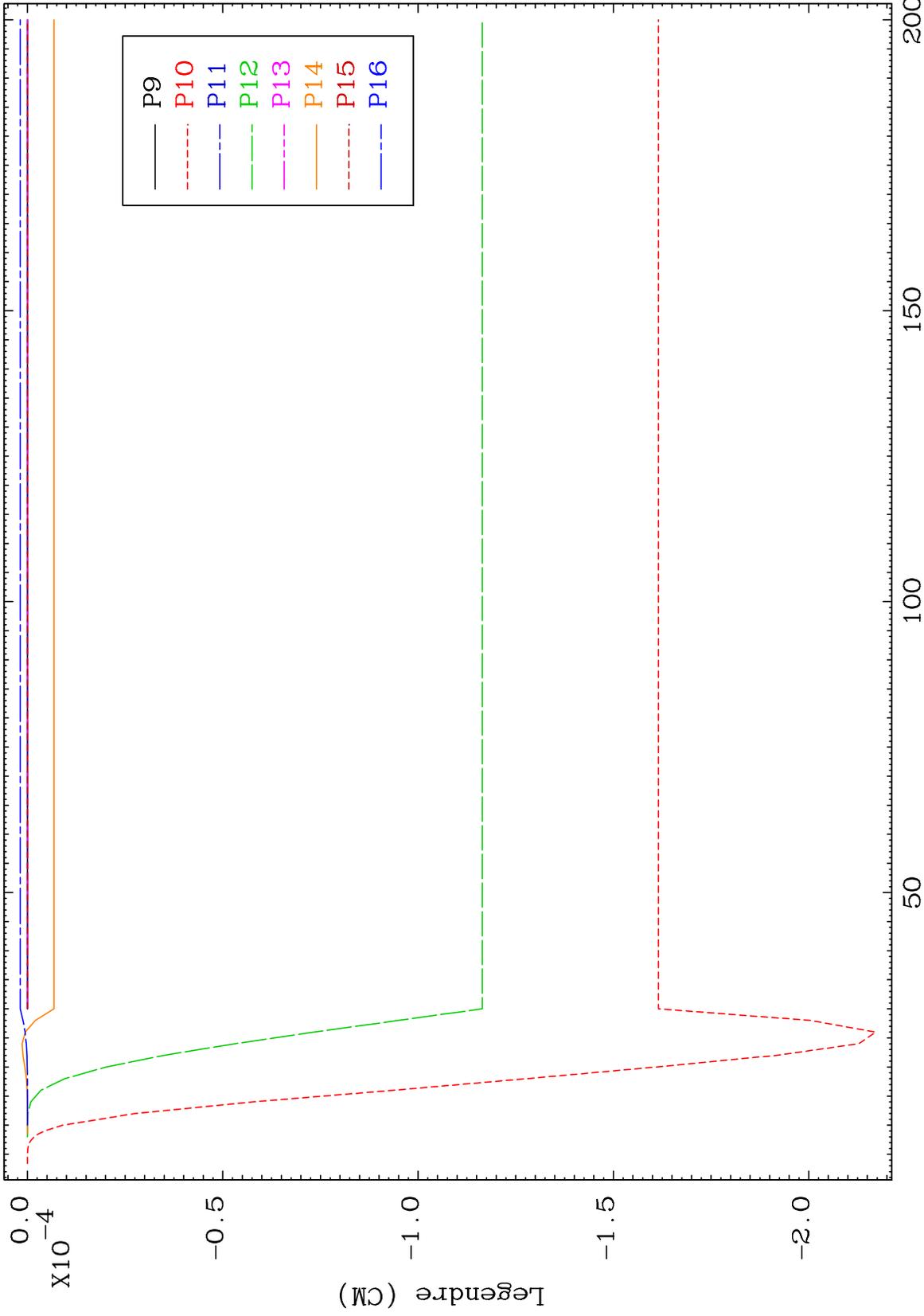
Incident Energy (MeV)

31-Ga-80

MAT 3158

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

31-Ga-80

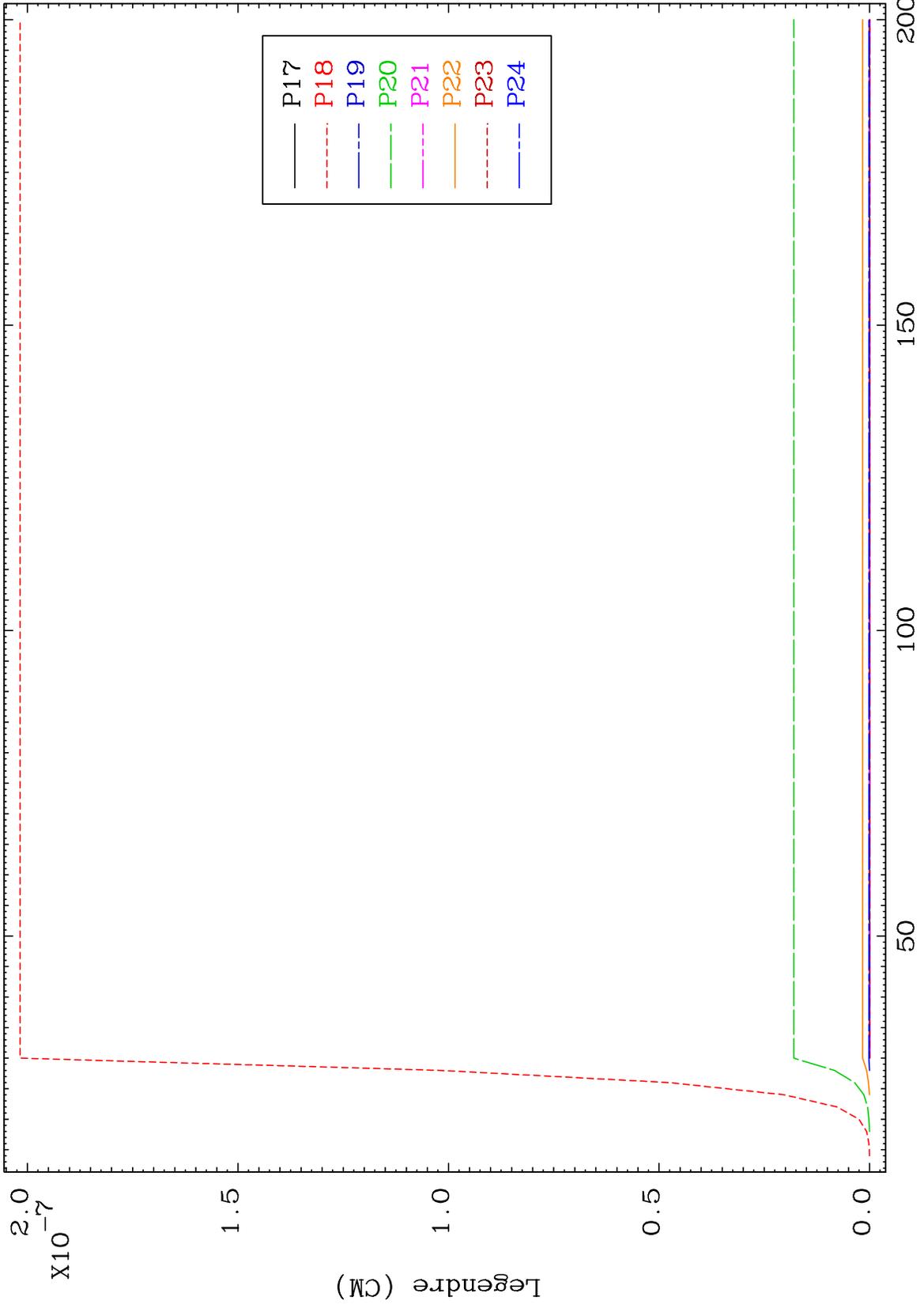


59

Incident Energy (MeV)

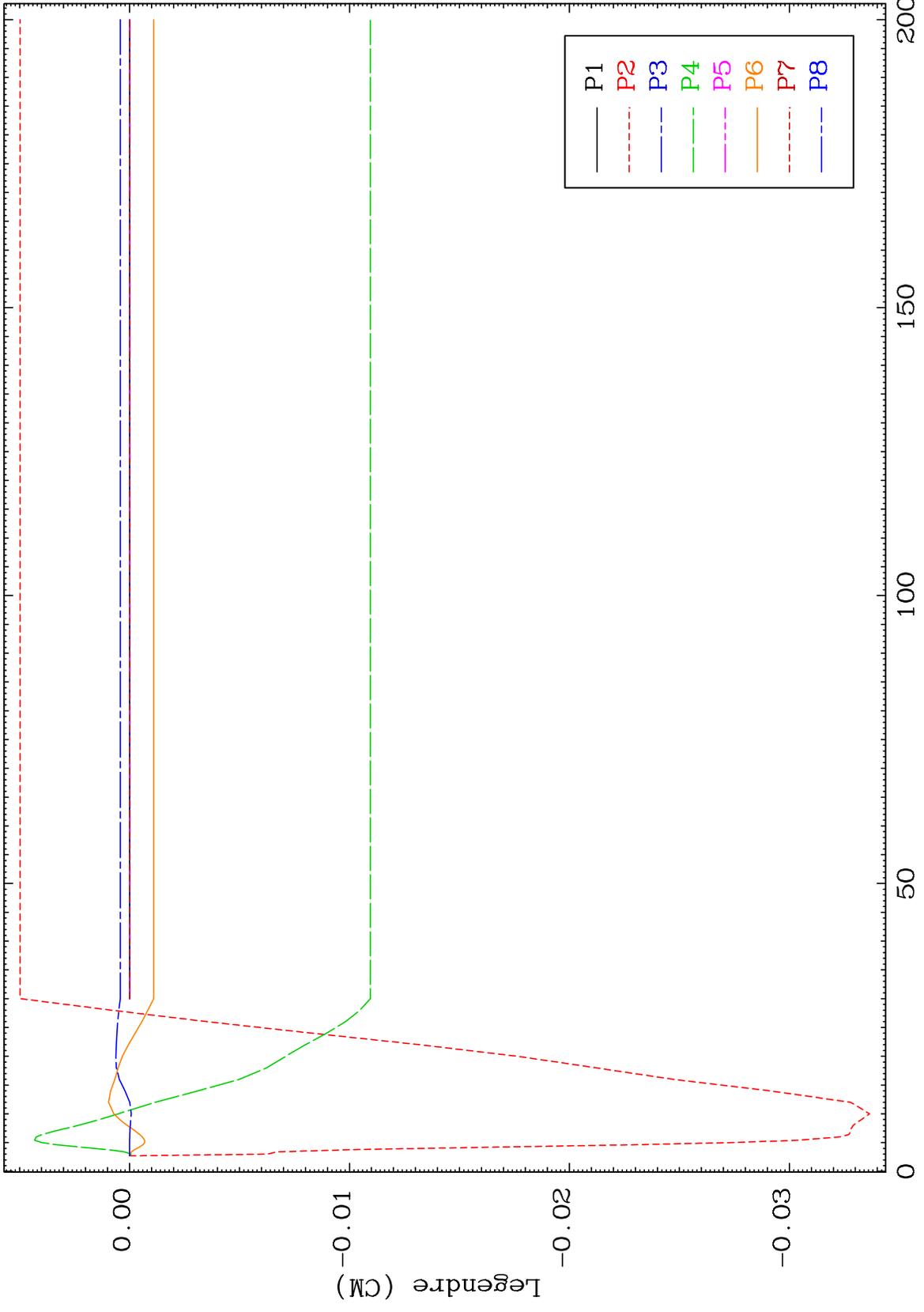
31-Ga-80

MAT 3158 MT= 63 (n,n') Level Legendre Coefficients 31-Ga-80



Incident Energy (MeV) 31-Ga-80

MAT 3158 MT= 64 (n,n') Level Legendre Coefficients 31-Ga-80

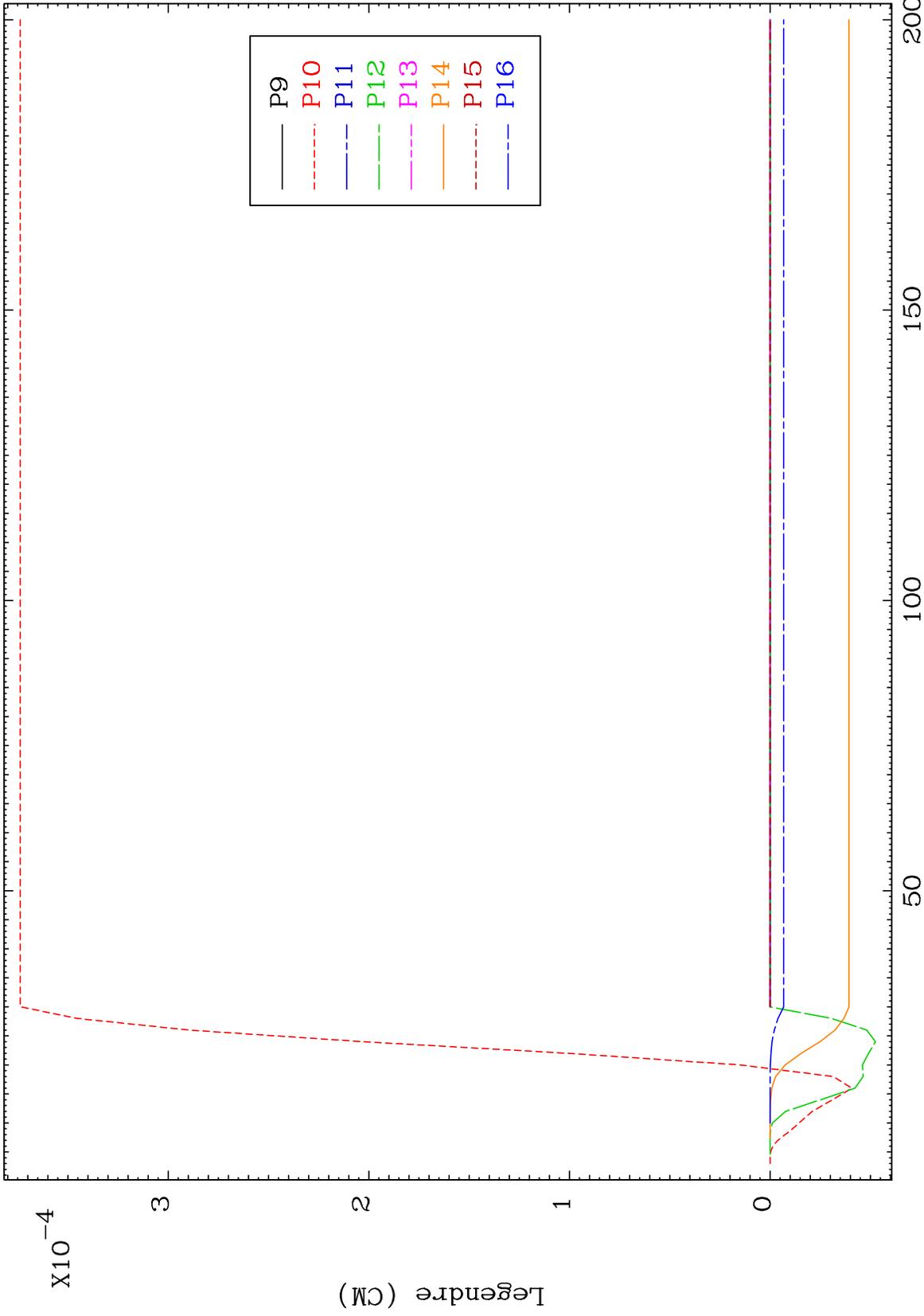


61 31-Ga-80

MAT 3158

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

31-Ga-80

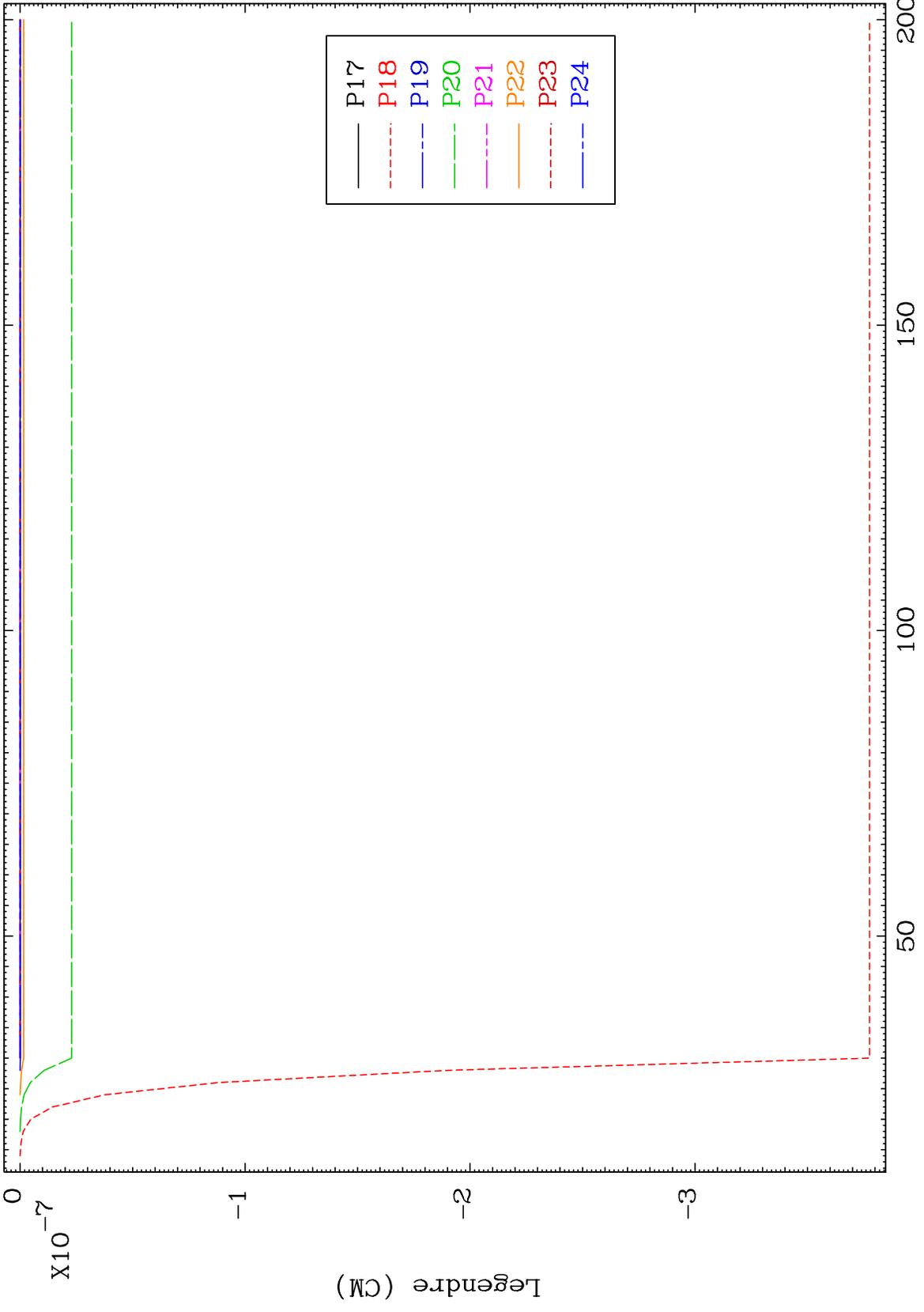


62

Incident Energy (MeV)

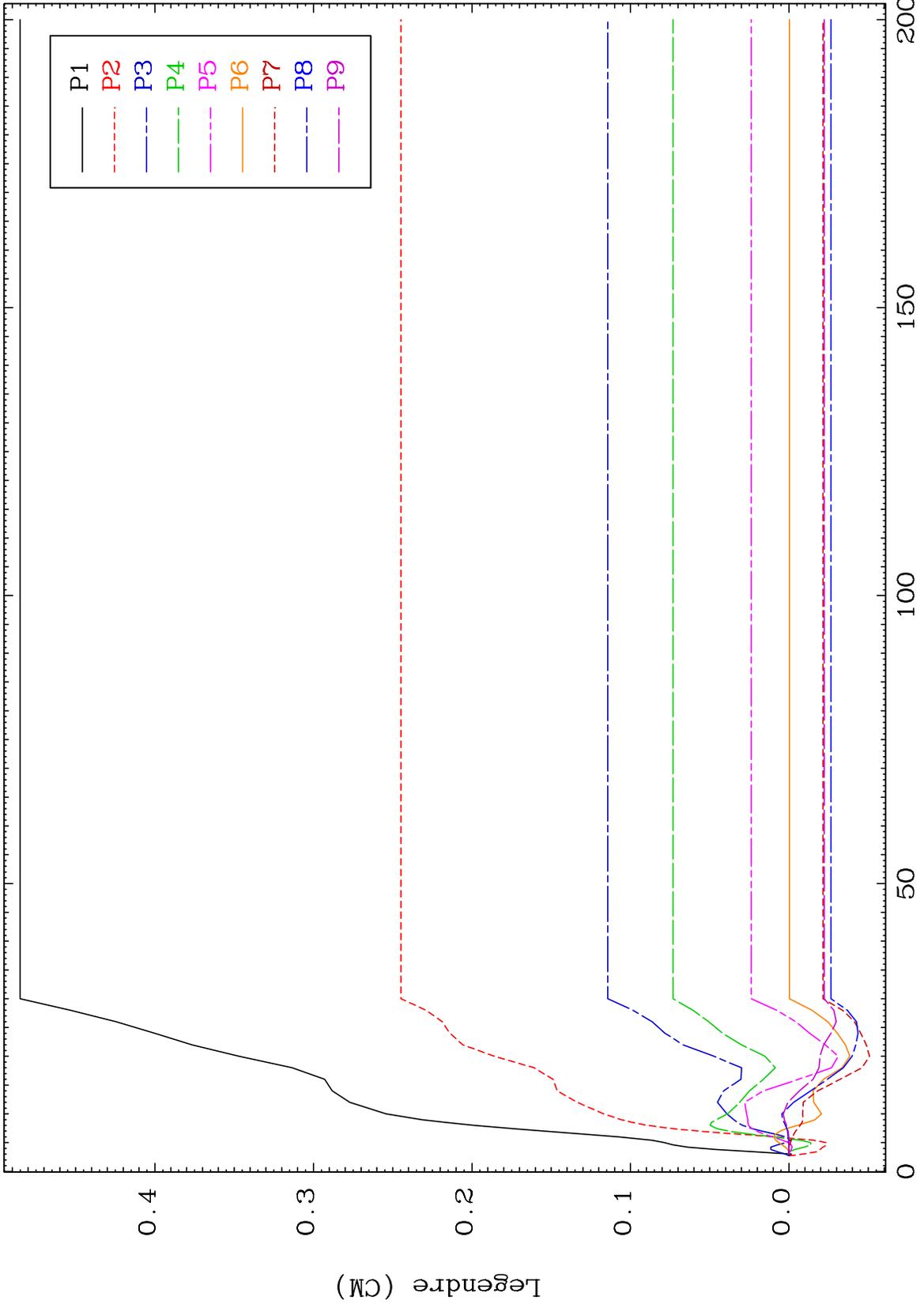
31-Ga-80

MAT 3158 MT= 64 (n,n') Level Legendre Coefficients 31-Ga-80



63 31-Ga-80

MAT 3158 MT= 65 (n,n') Level Legendre Coefficients 31-Ga-80

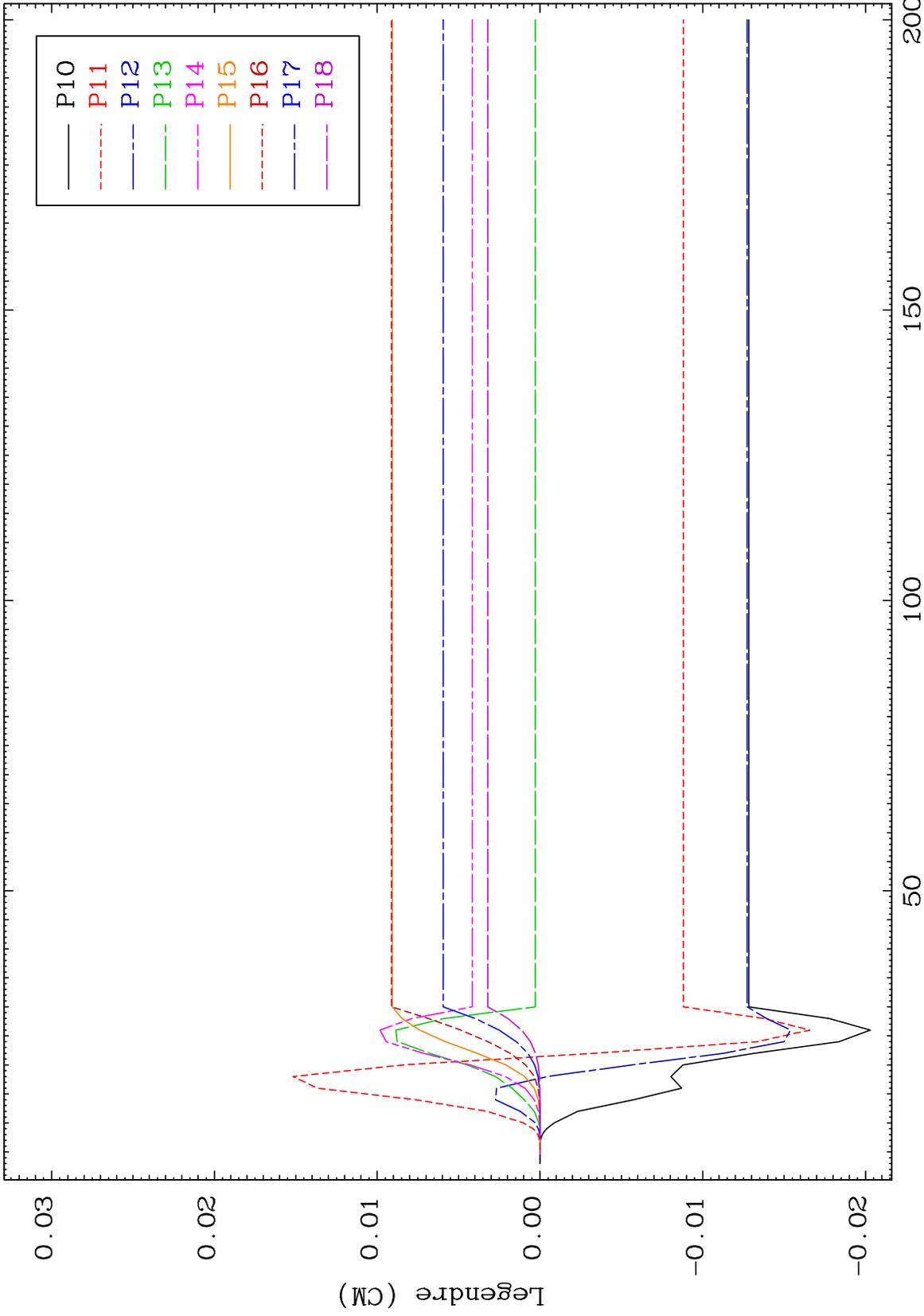


64 31-Ga-80

MAT 3158

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

31-Ga-80



65

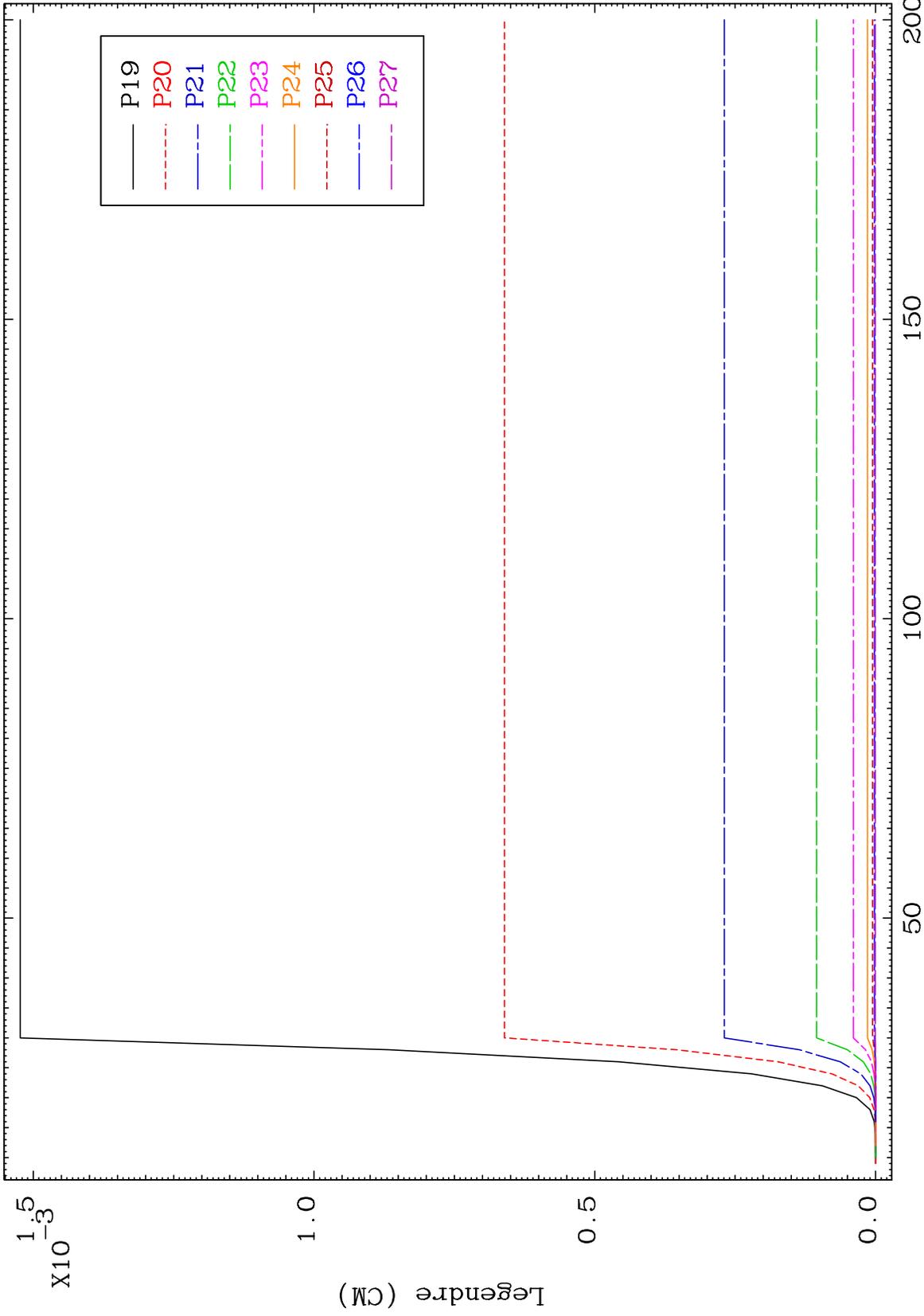
Incident Energy (MeV)

31-Ga-80

MAT 3158

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

31-Ga-80

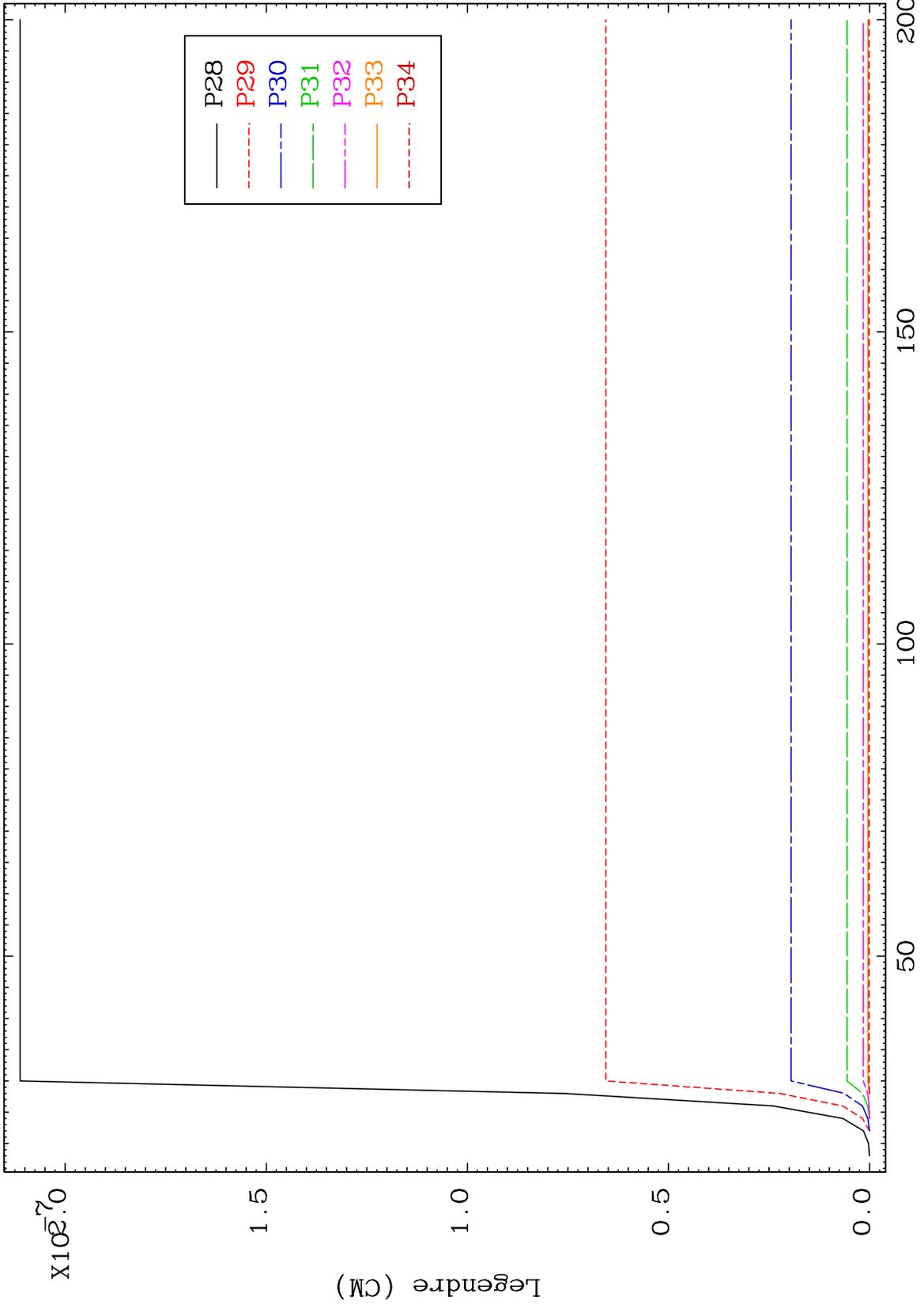


66

Incident Energy (MeV)

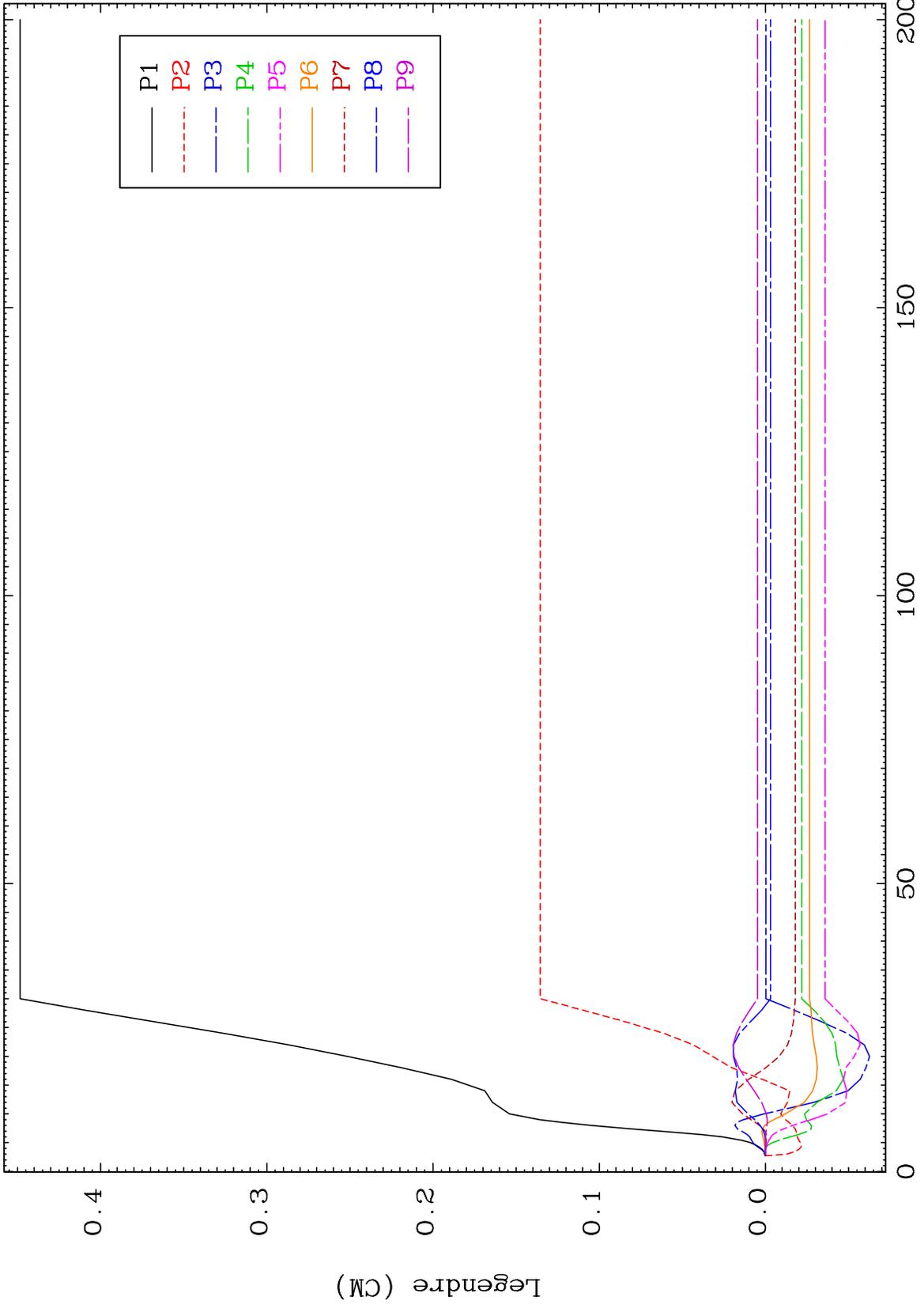
31-Ga-80

MAT 3158 MT= 65 (n,n') Level Legendre Coefficients 31-Ga-80



67 31-Ga-80

MAT 3158 MT= 66 (n,n') Level Legendre Coefficients 31-Ga-80

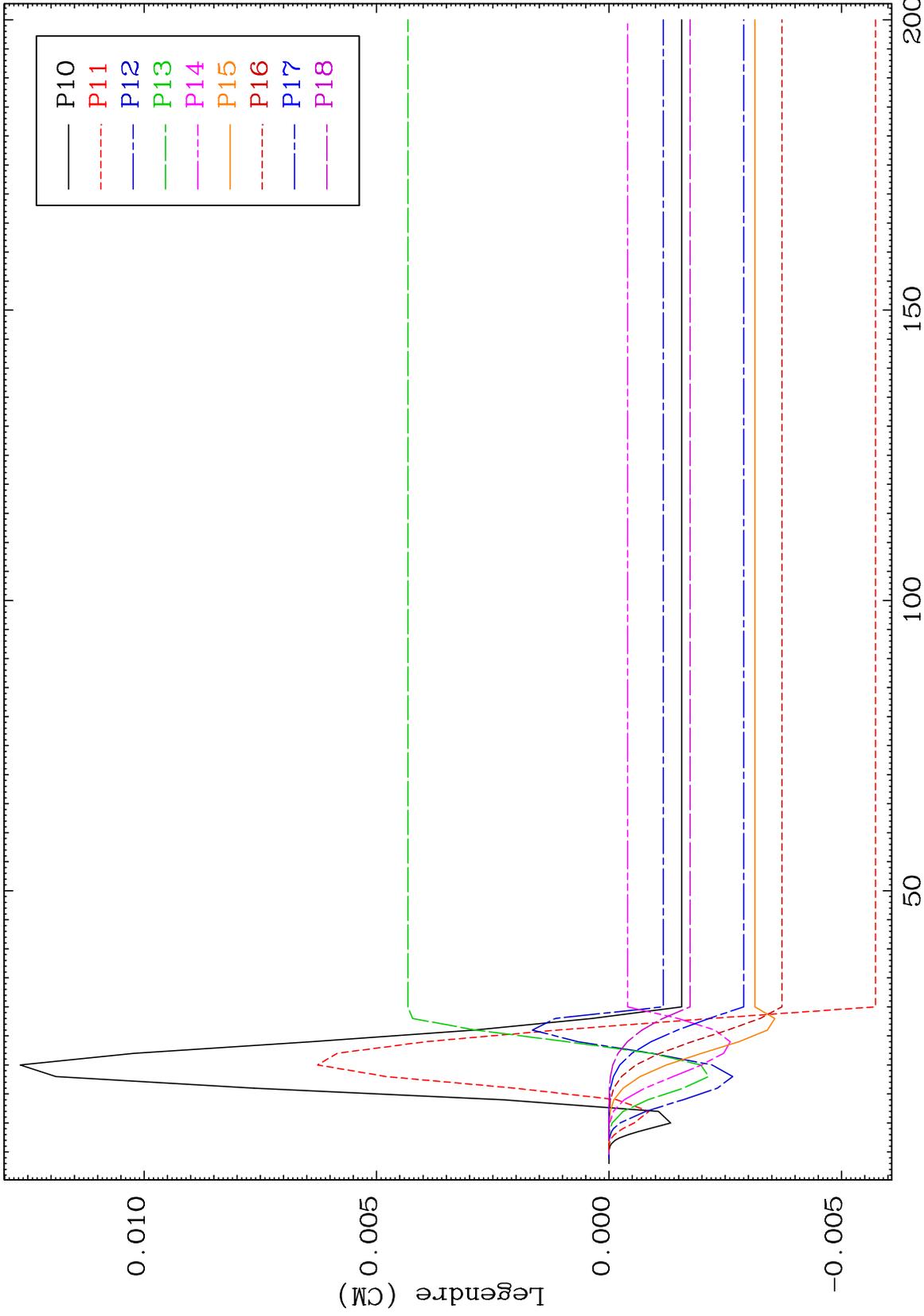


68 31-Ga-80

MAT 3158

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

31-Ga-80

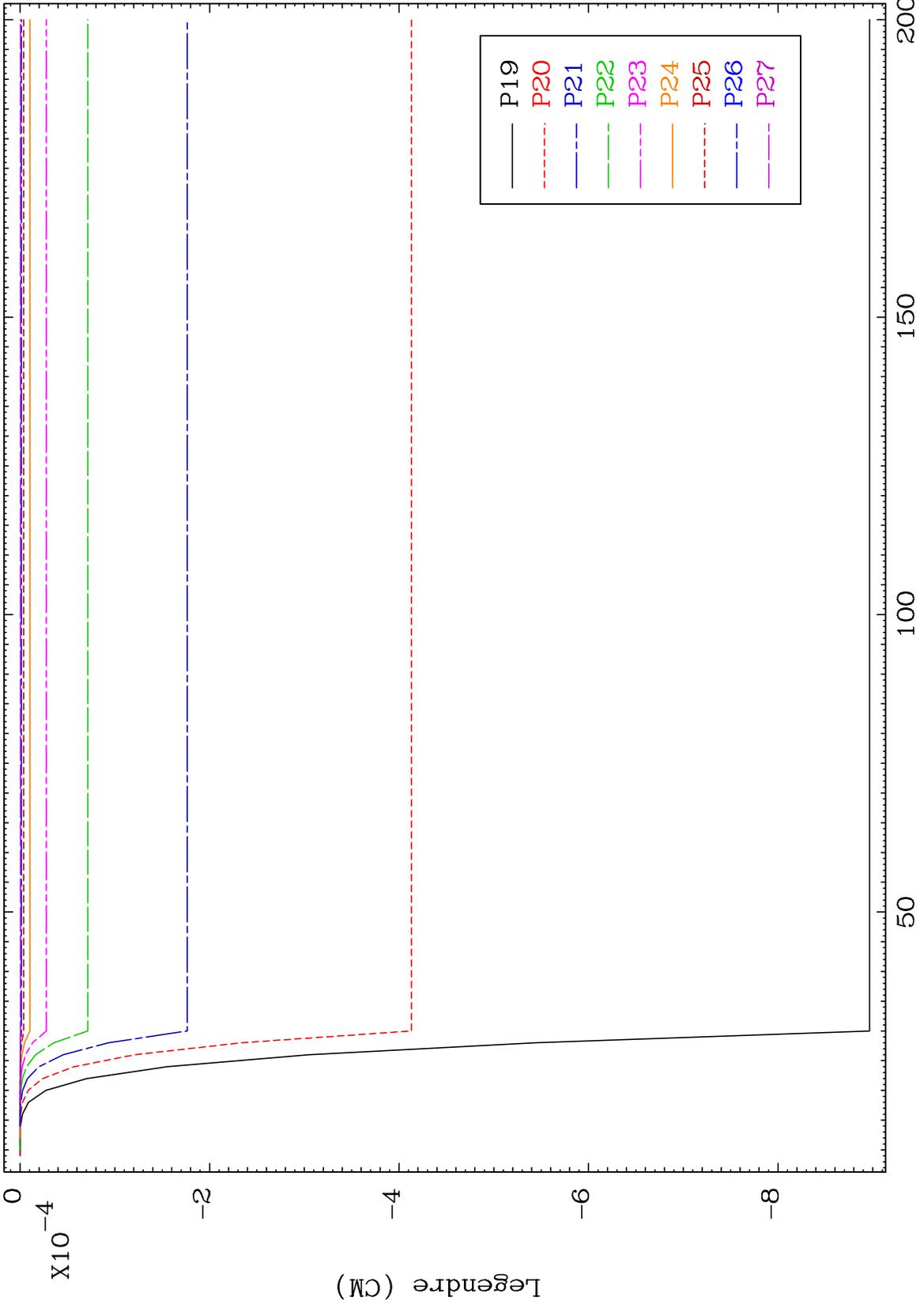


69

Incident Energy (MeV)

31-Ga-80

MAT 3158 MT= 66 (n,n') Level Legendre Coefficients 31-Ga-80

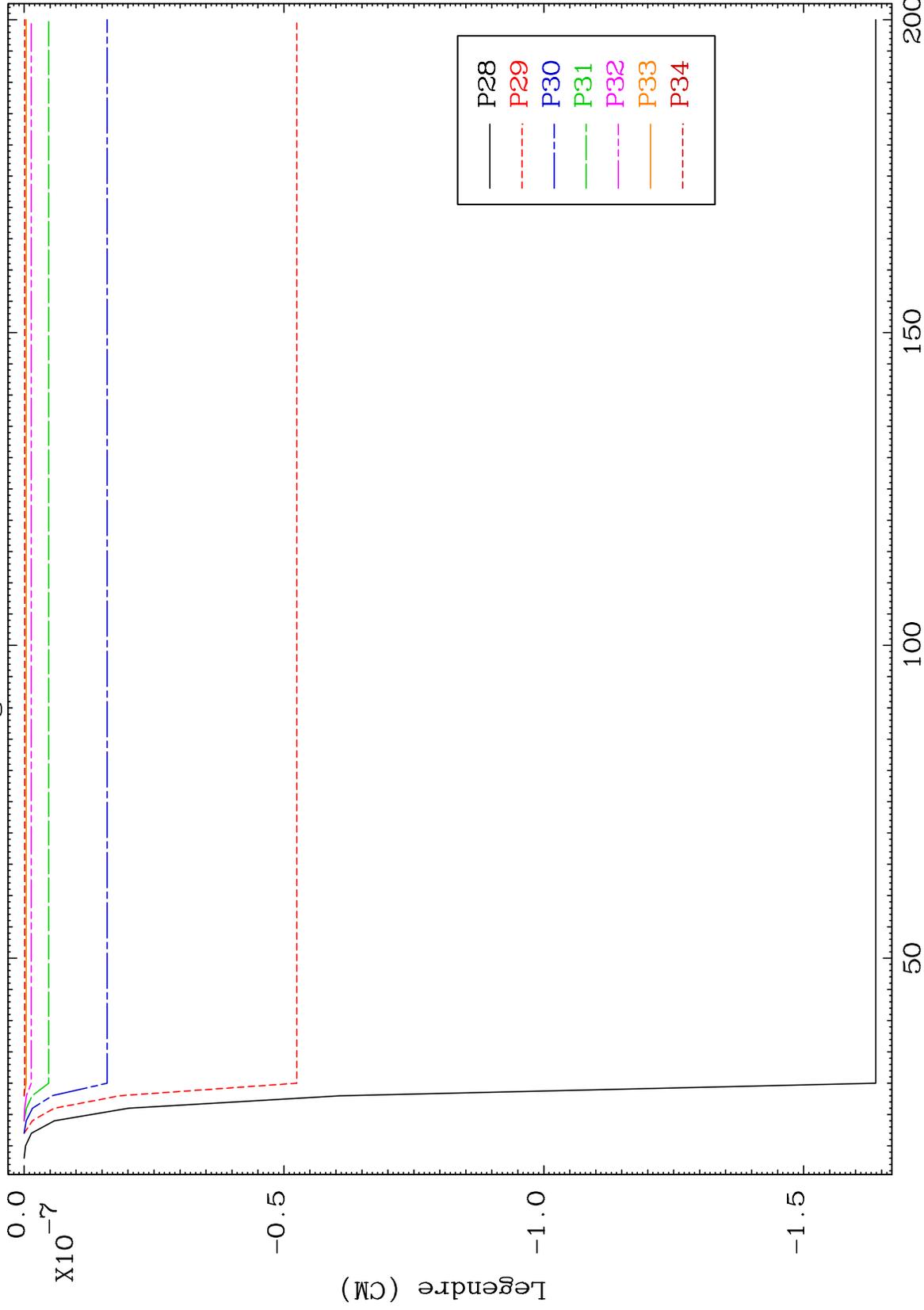


70 Incident Energy (MeV) 31-Ga-80

MAT 3158

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

31-Ga-80



71

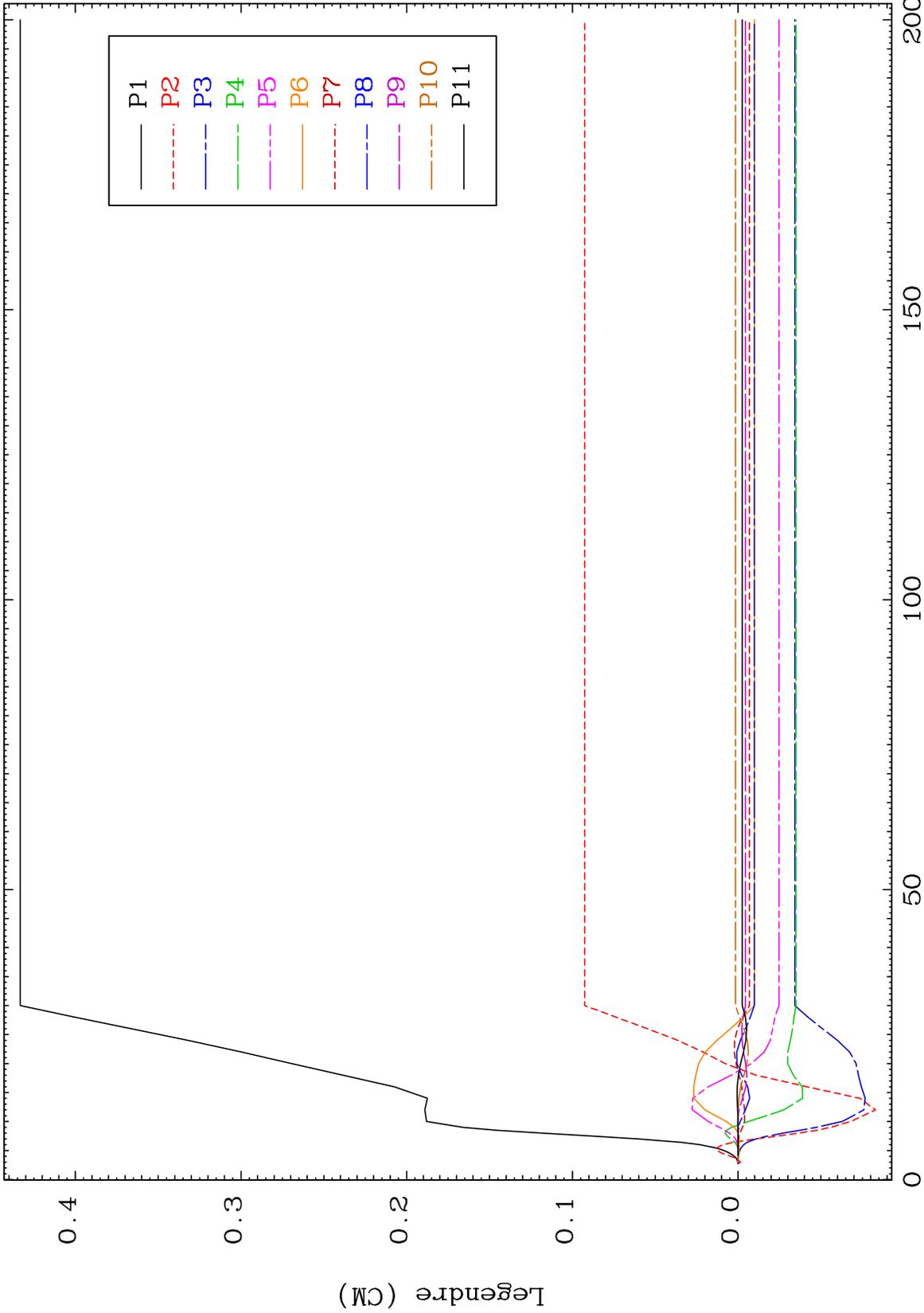
Incident Energy (MeV)

31-Ga-80

MAT 3158

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

31-Ga-80

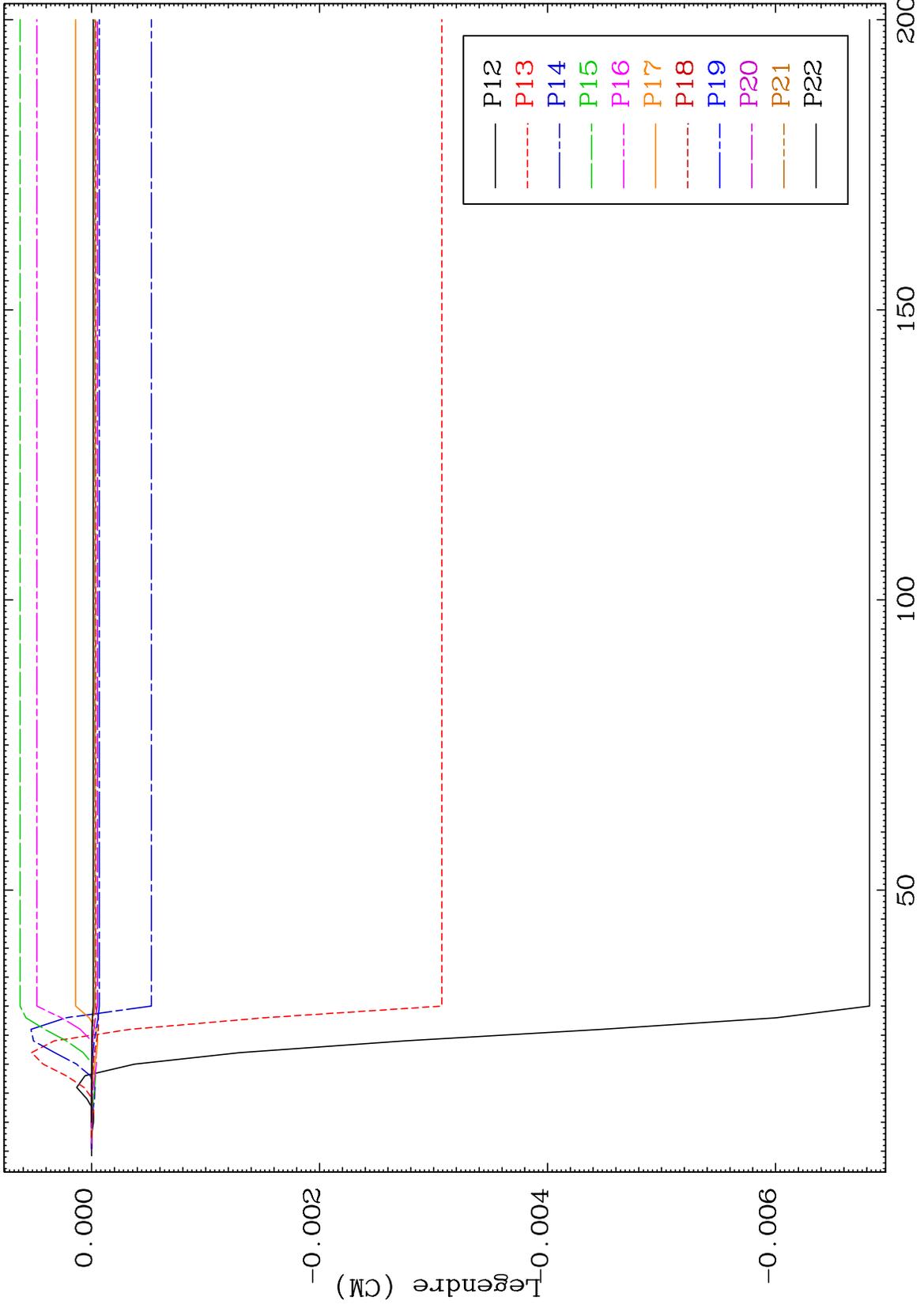


72

Incident Energy (MeV)

31-Ga-80

MAT 3158 MT= 67 (n,n') Level Legendre Coefficients 31-Ga-80

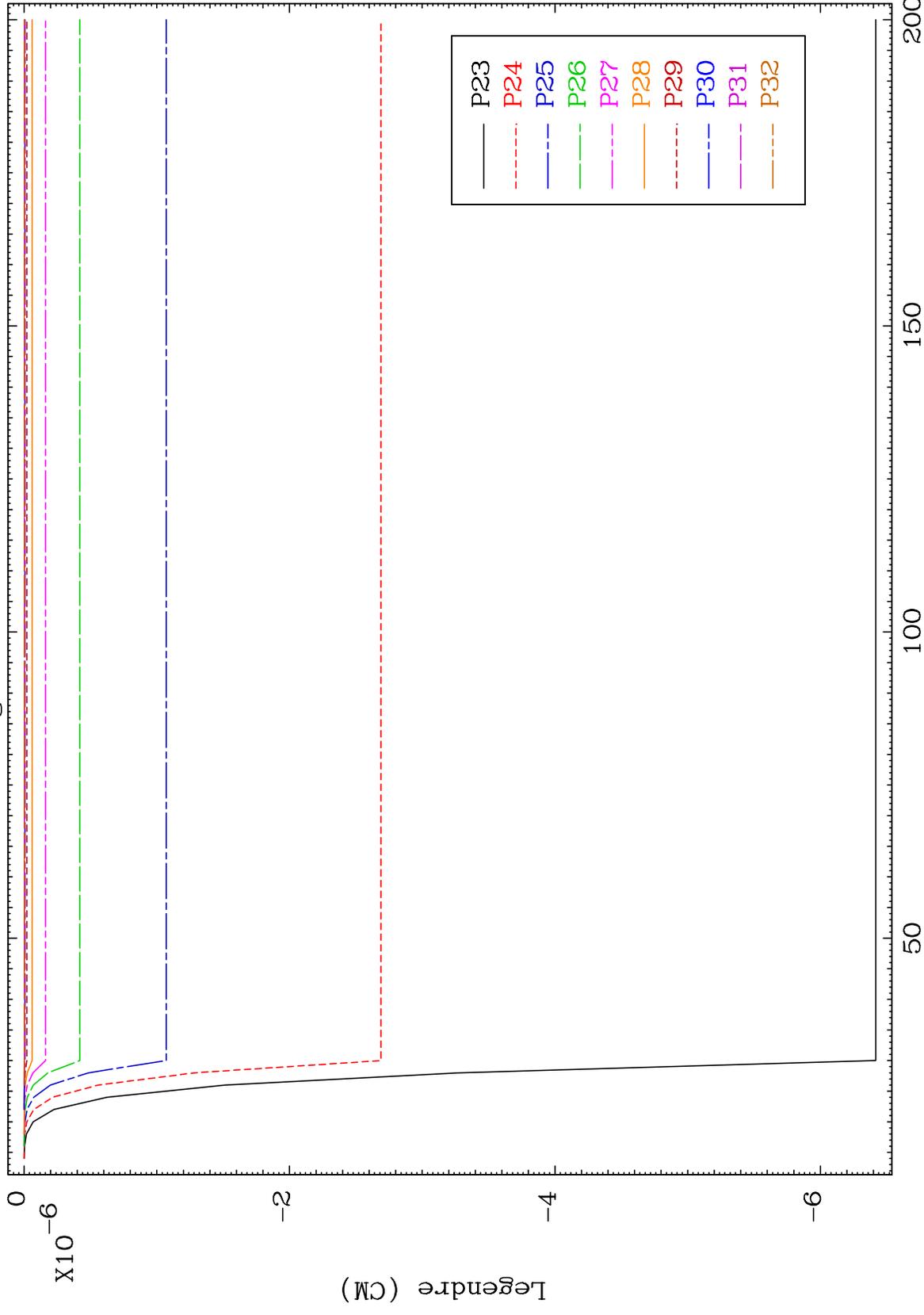


73 31-Ga-80

MAT 3158

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

31-Ga-80



31-Ga-80

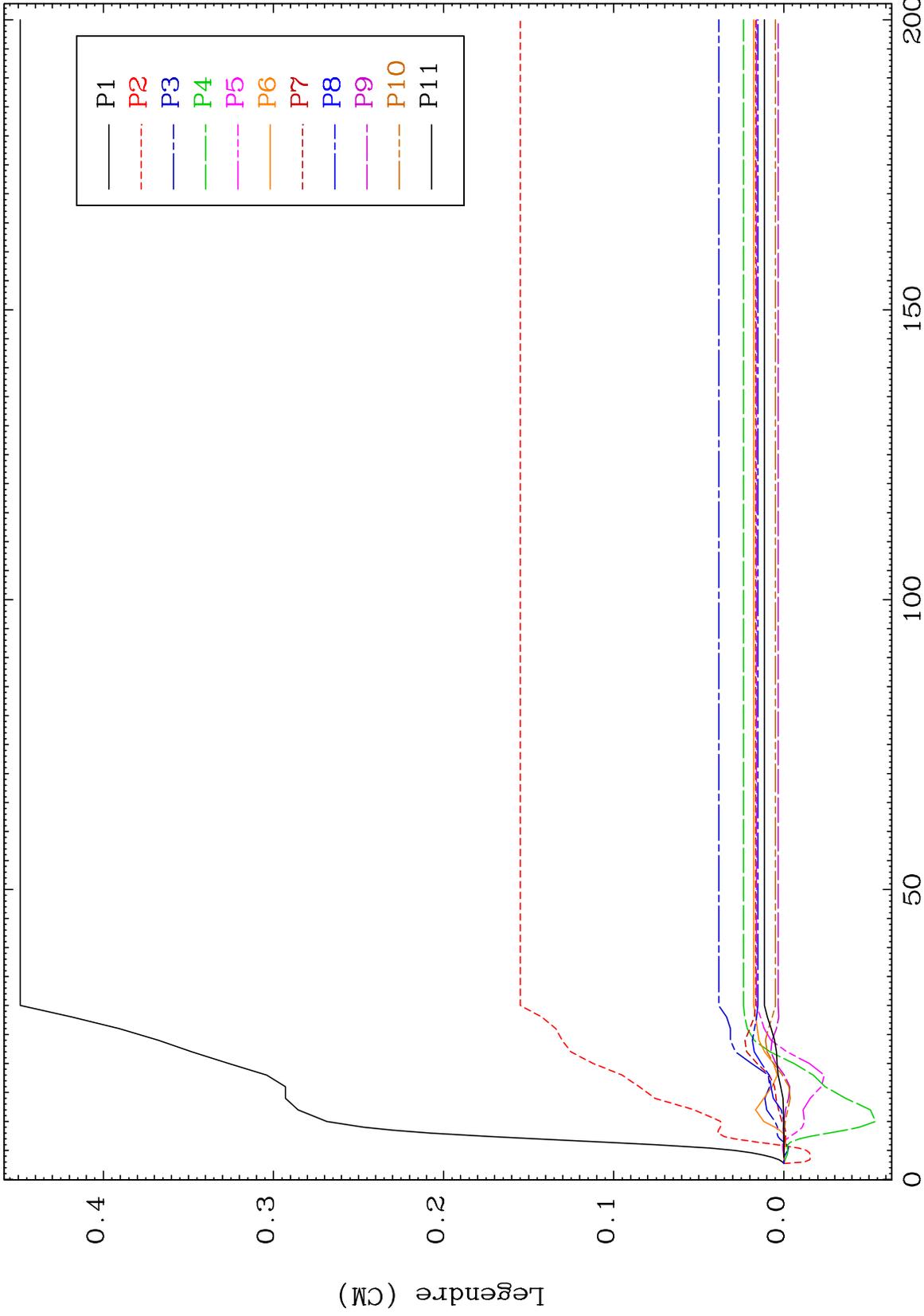
Incident Energy (MeV)

74

MAT 3158

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

31-Ga-80



75

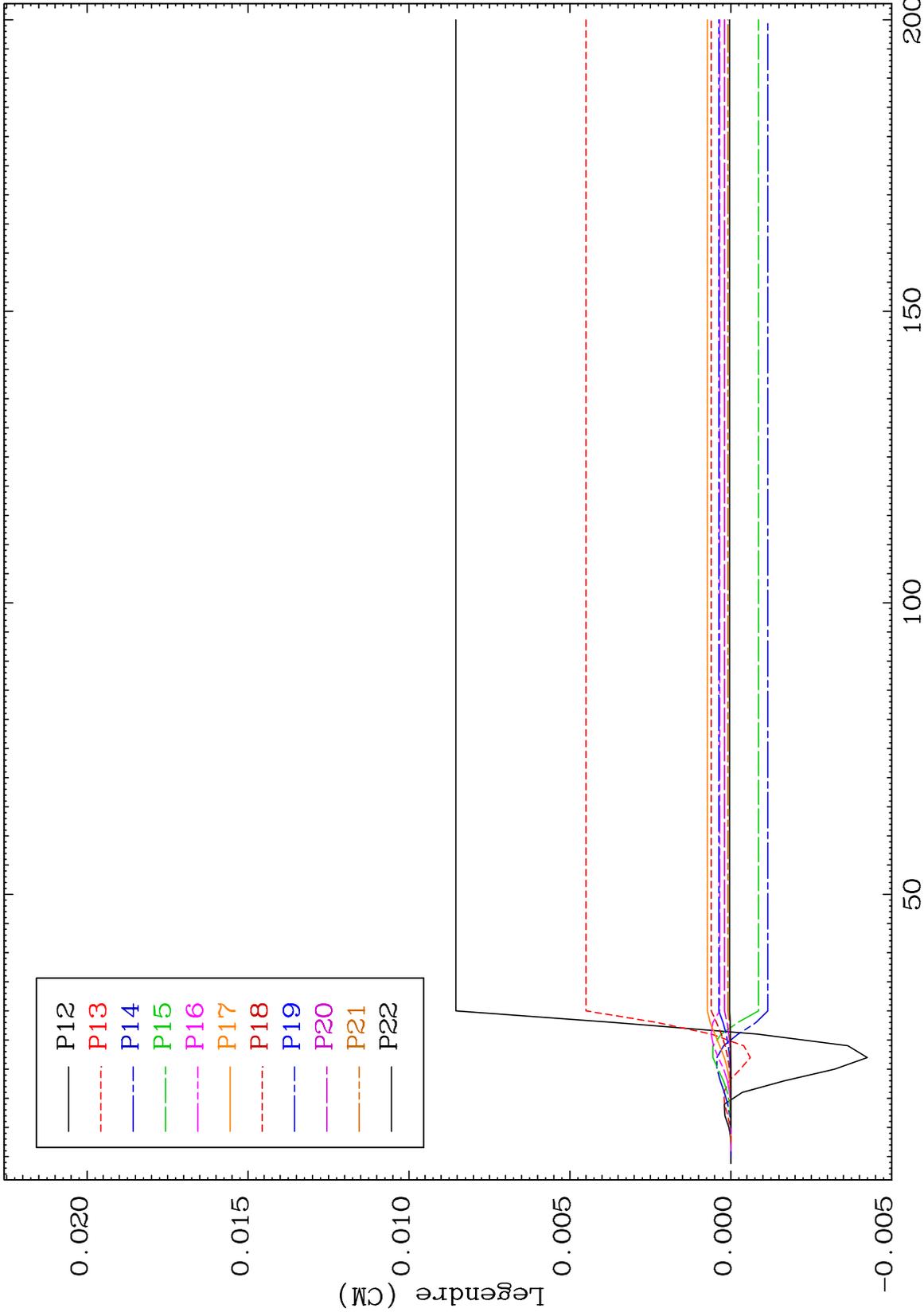
Incident Energy (MeV)

31-Ga-80

MAT 3158

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

31-Ga-80



76

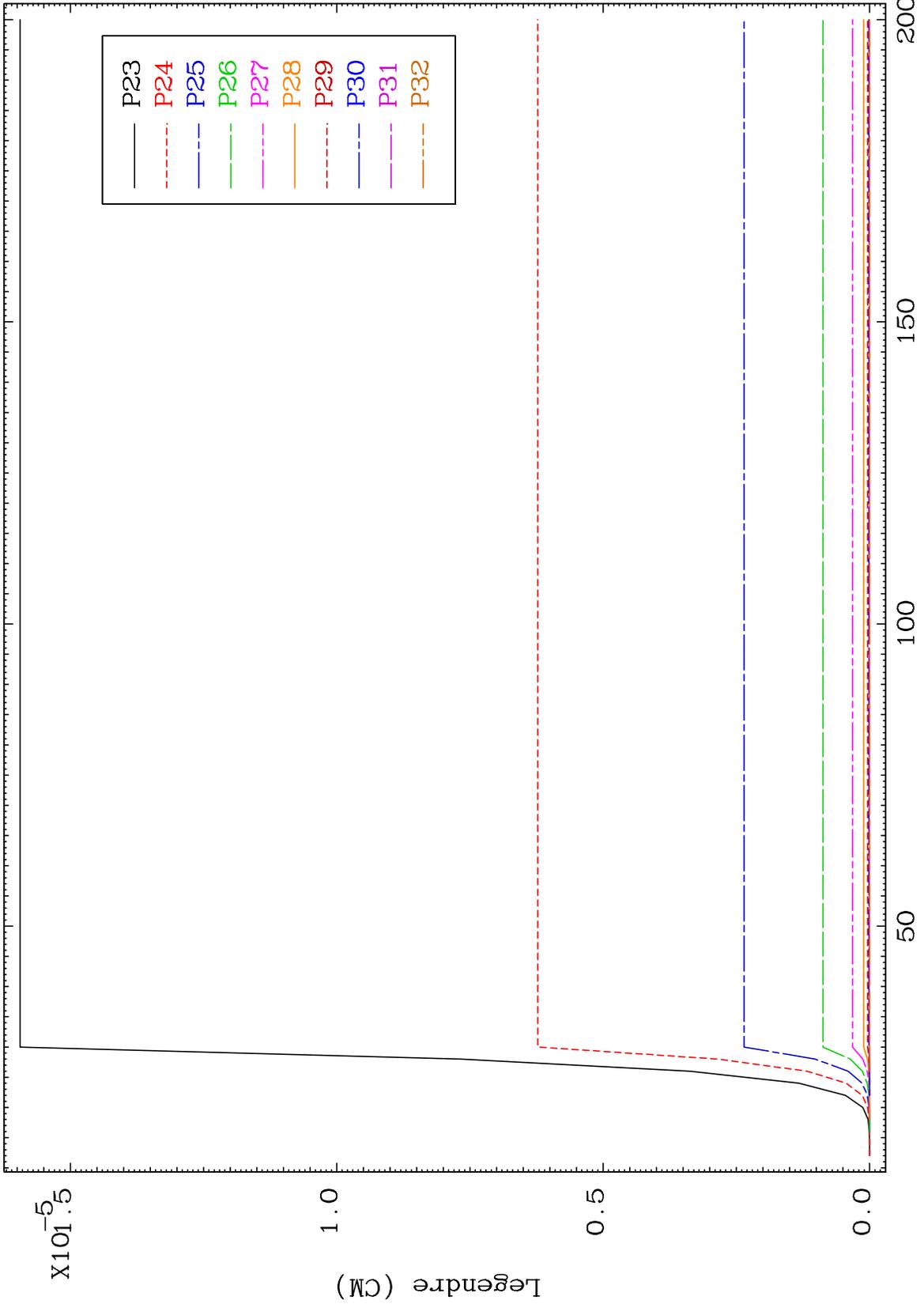
Incident Energy (MeV)

31-Ga-80

MAT 3158

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

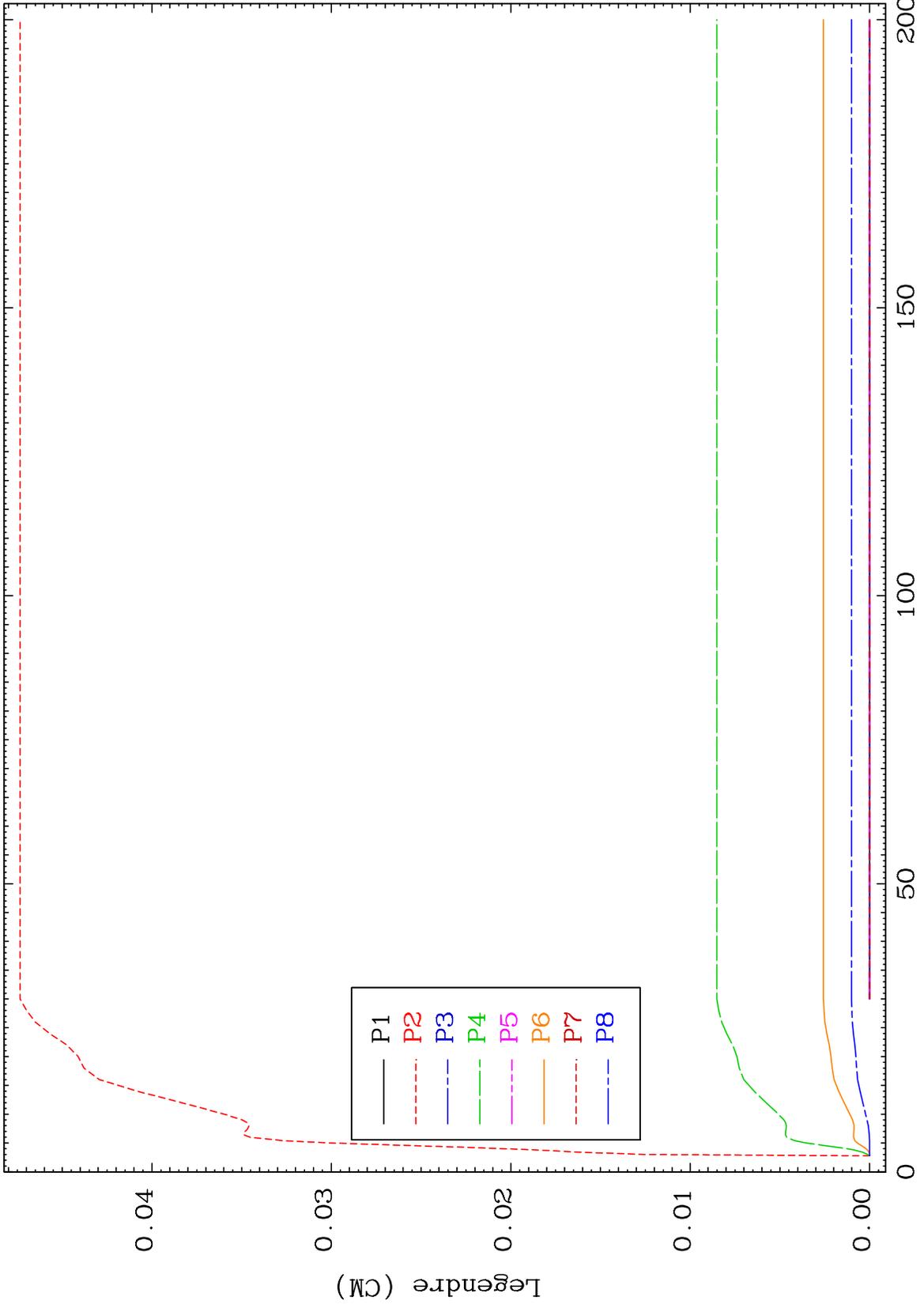
31-Ga-80



77

31-Ga-80

MAT 3158 MT= 69 (n,n') Level Legendre Coefficients 31-Ga-80

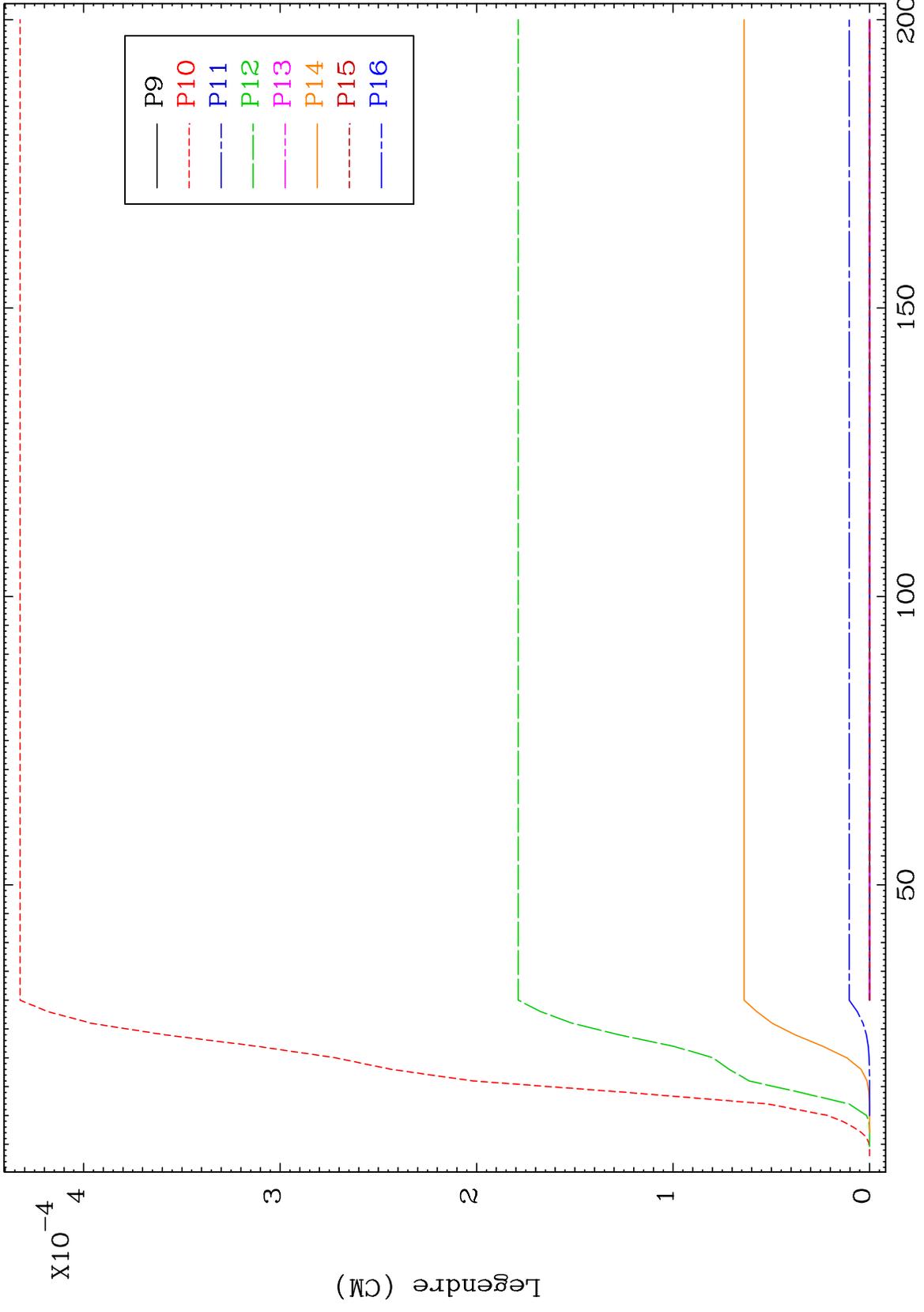


78 Incident Energy (MeV) 31-Ga-80

MAT 3158

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

31-Ga-80

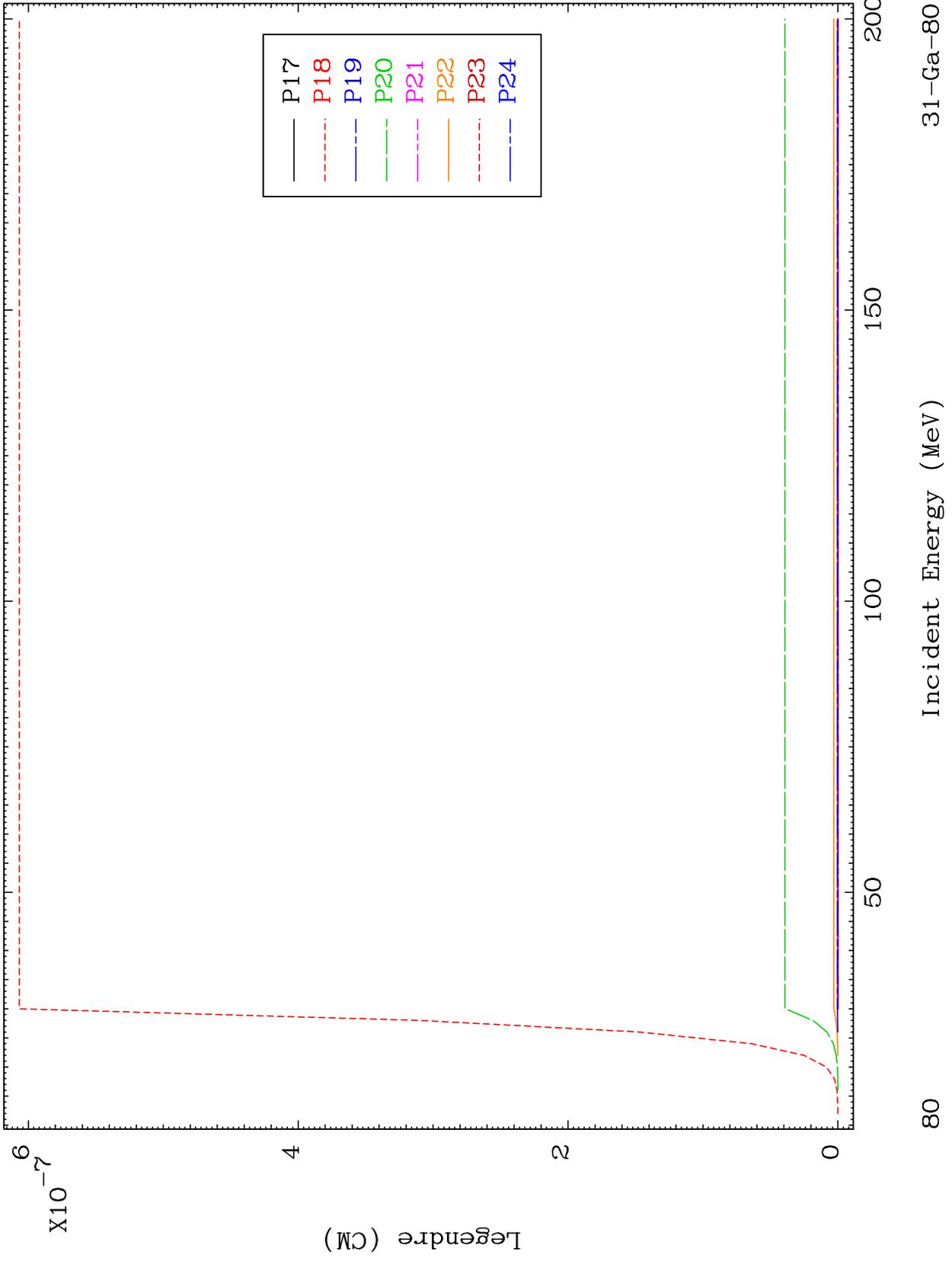


79

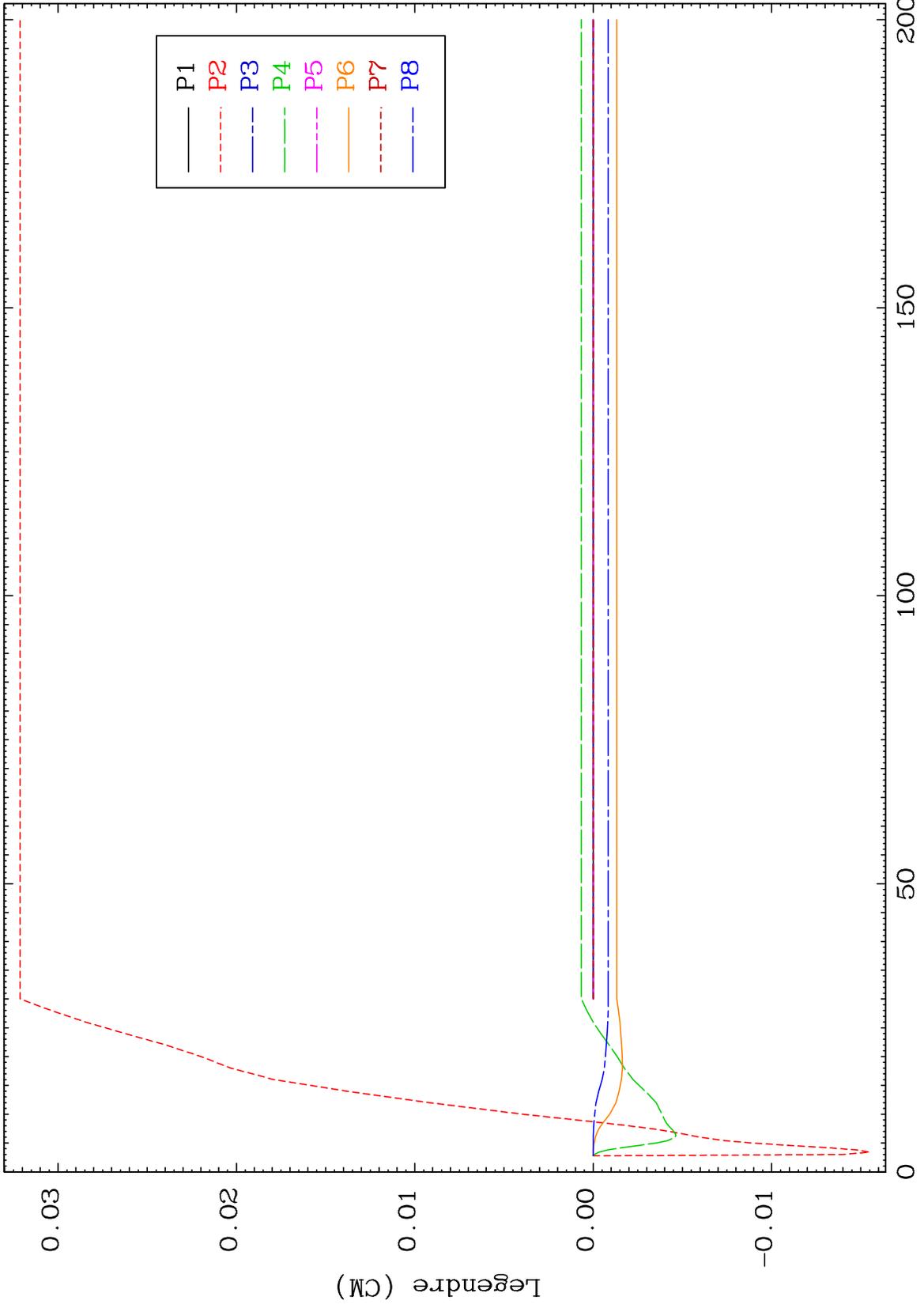
Incident Energy (MeV)

31-Ga-80

MAT 3158 MT= 69 (n,n') Level Legendre Coefficients 31-Ga-80



MAT 3158 MT= 70 (n,n') Level Legendre Coefficients 31-Ga-80

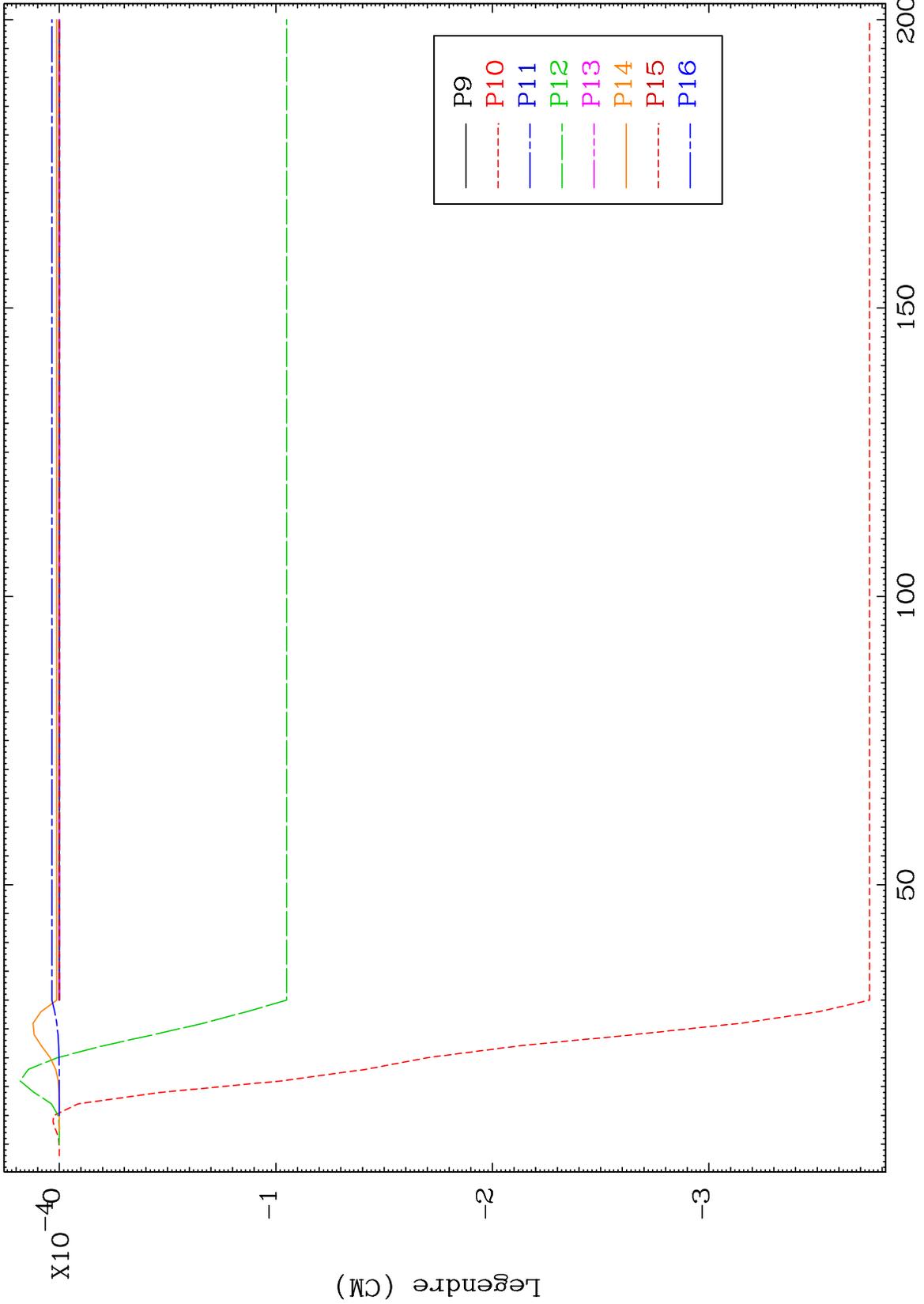


81 31-Ga-80

MAT 3158

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

31-Ga-80

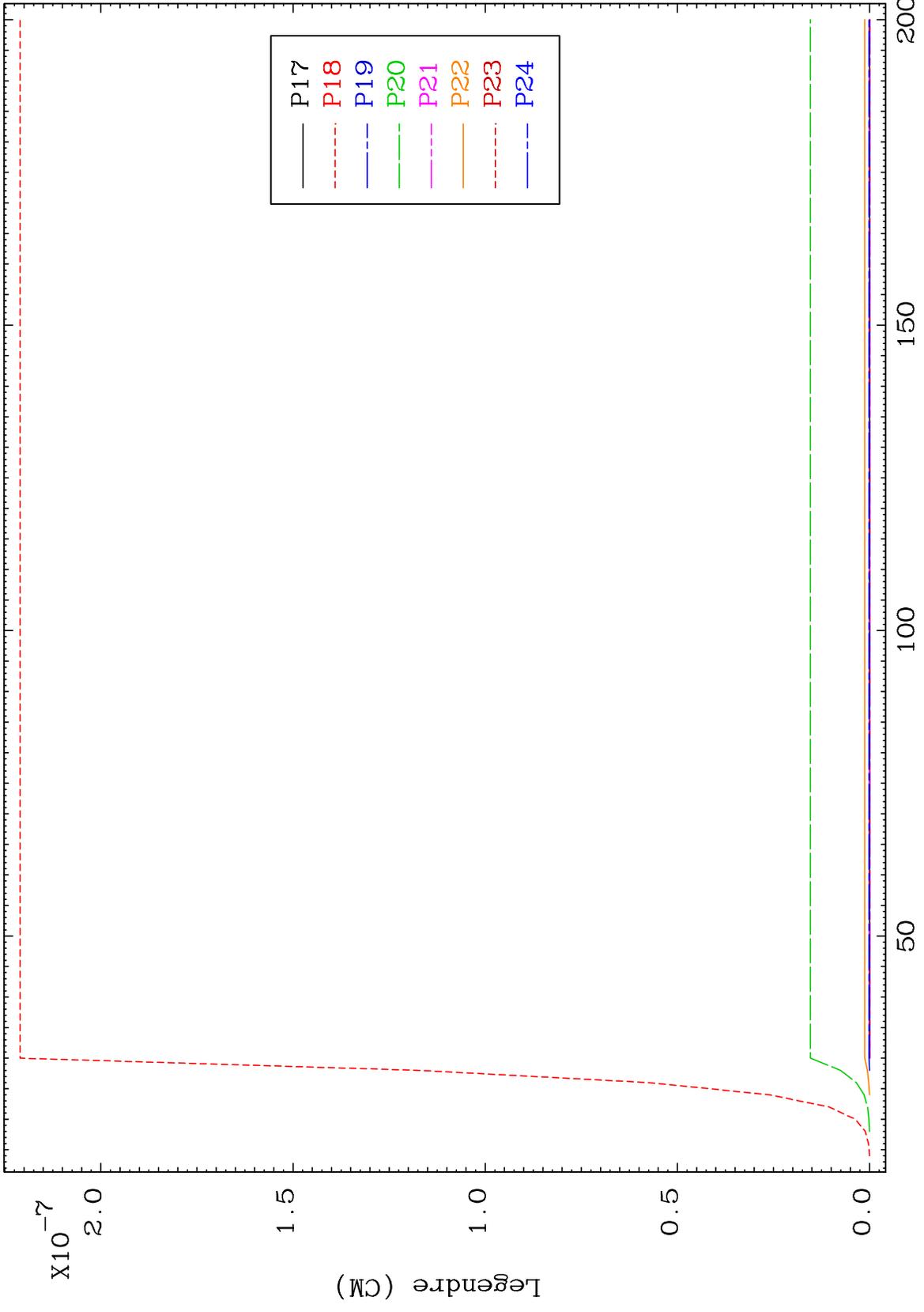


82

Incident Energy (MeV)

31-Ga-80

MAT 3158 MT= 70 (n,n') Level Legendre Coefficients 31-Ga-80



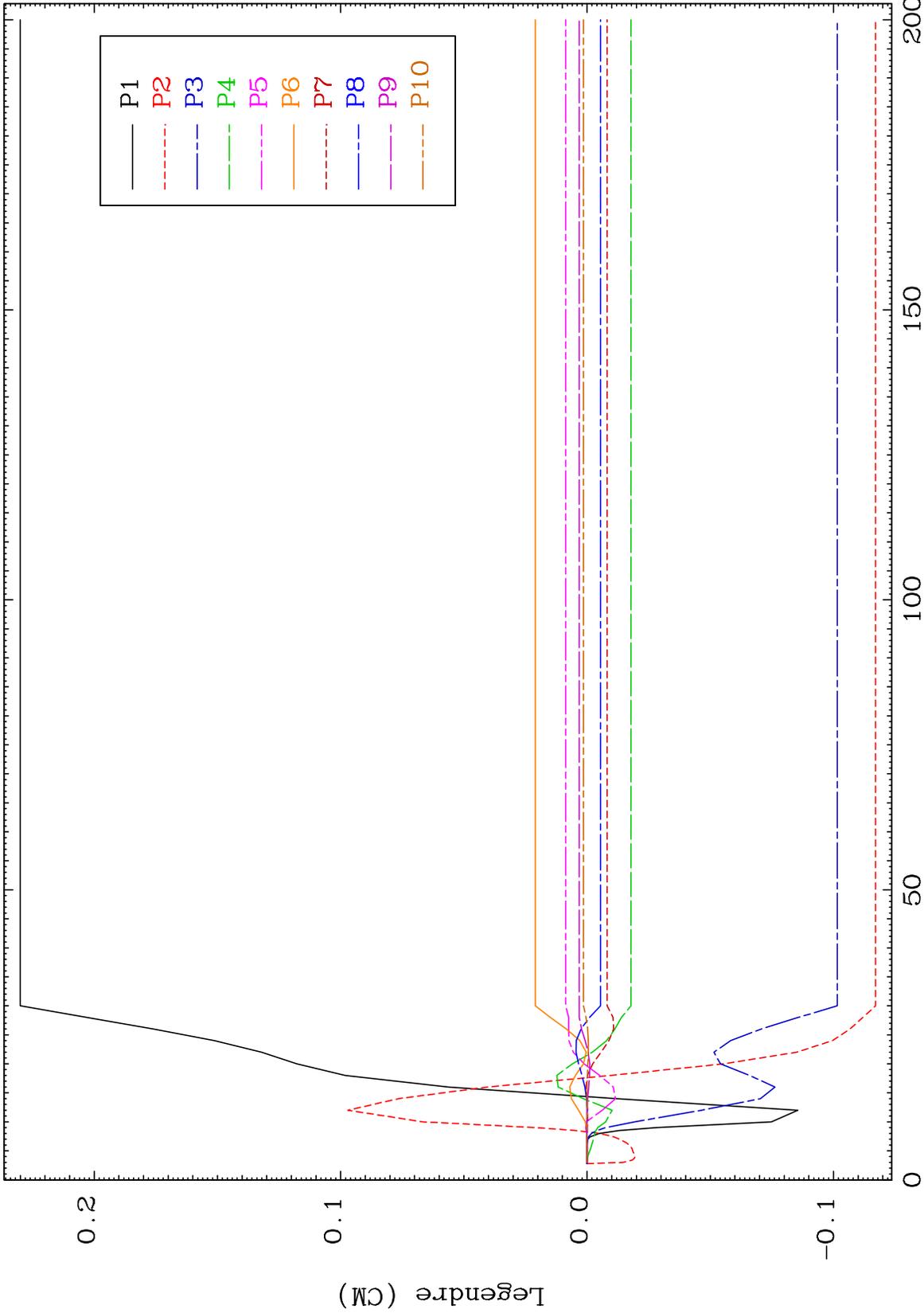
83

31-Ga-80

MAT 3158

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

31-Ga-80

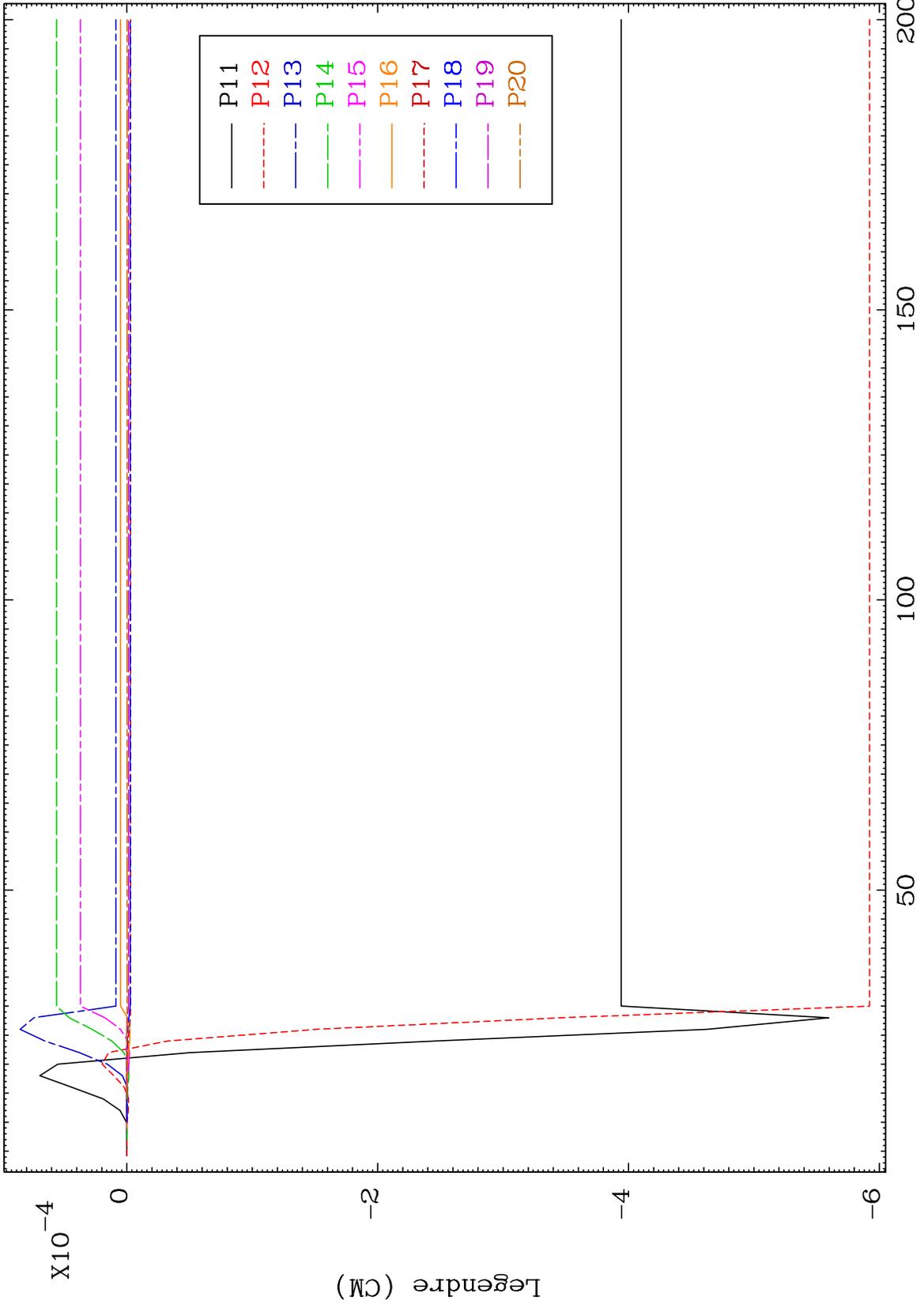


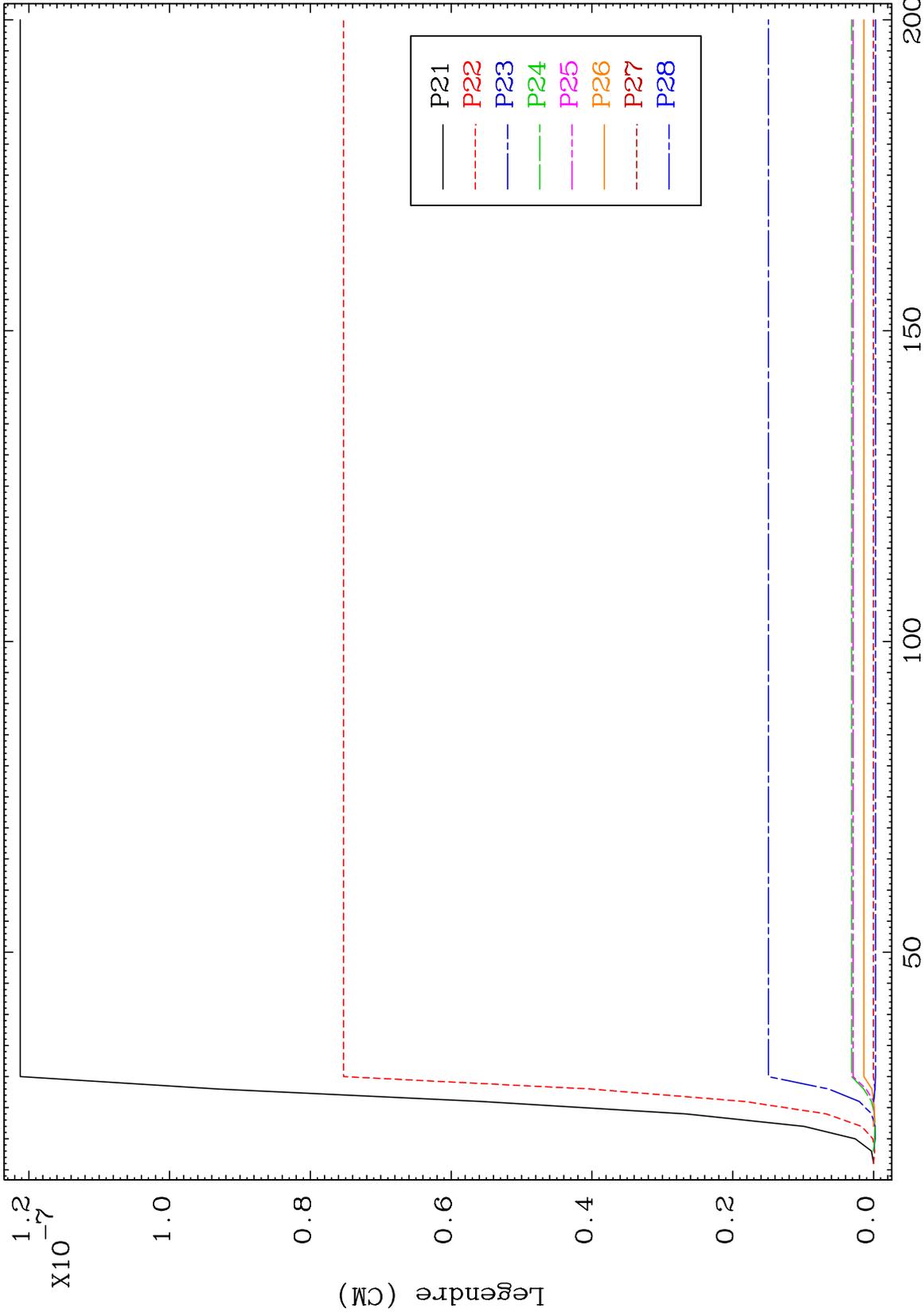
84

Incident Energy (MeV)

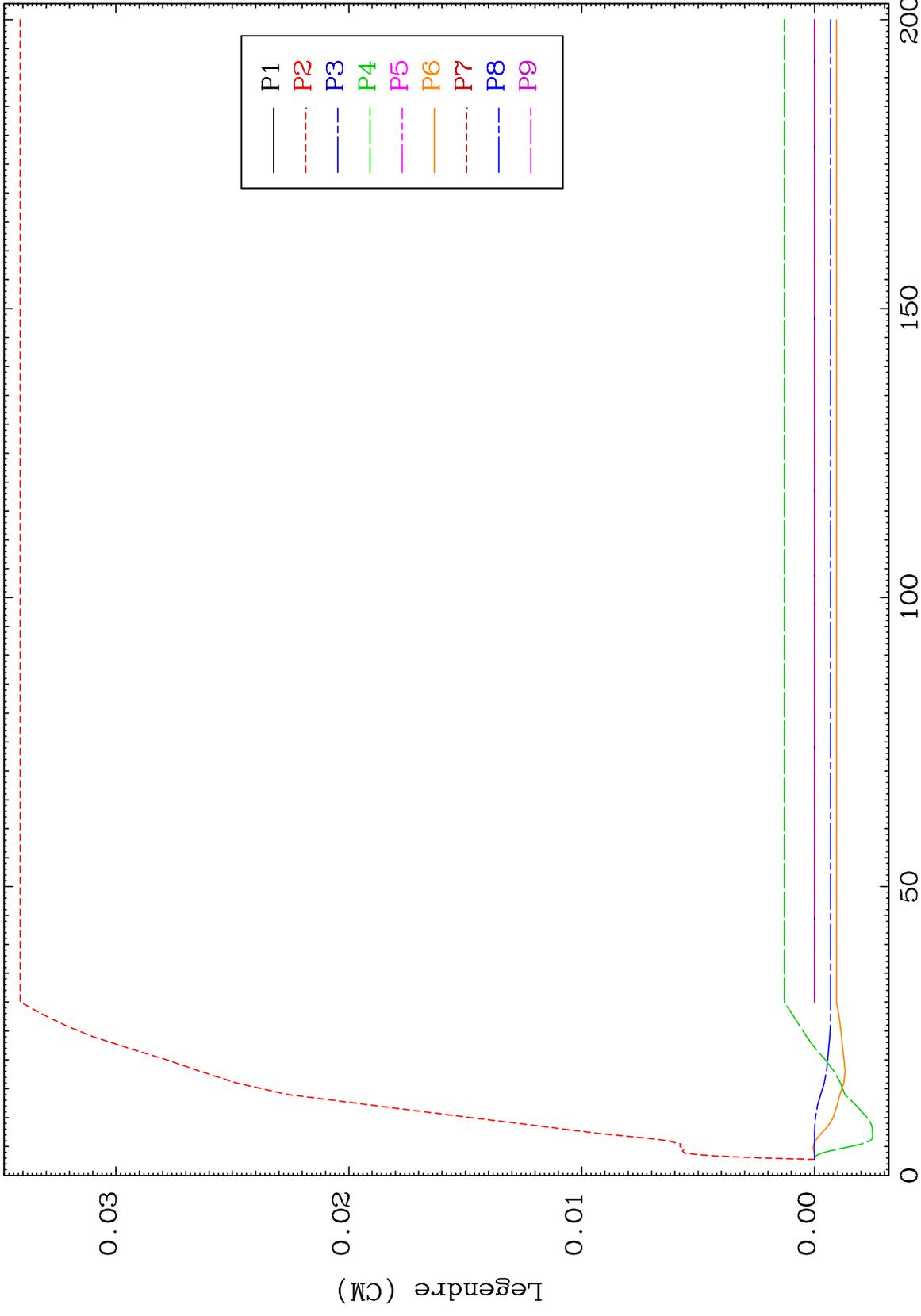
31-Ga-80

MAT 3158 MT= 71 (n,n') Level Legendre Coefficients 31-Ga-80





MAT 3158 MT= 72 (n,n') Level Legendre Coefficients 31-Ga-80

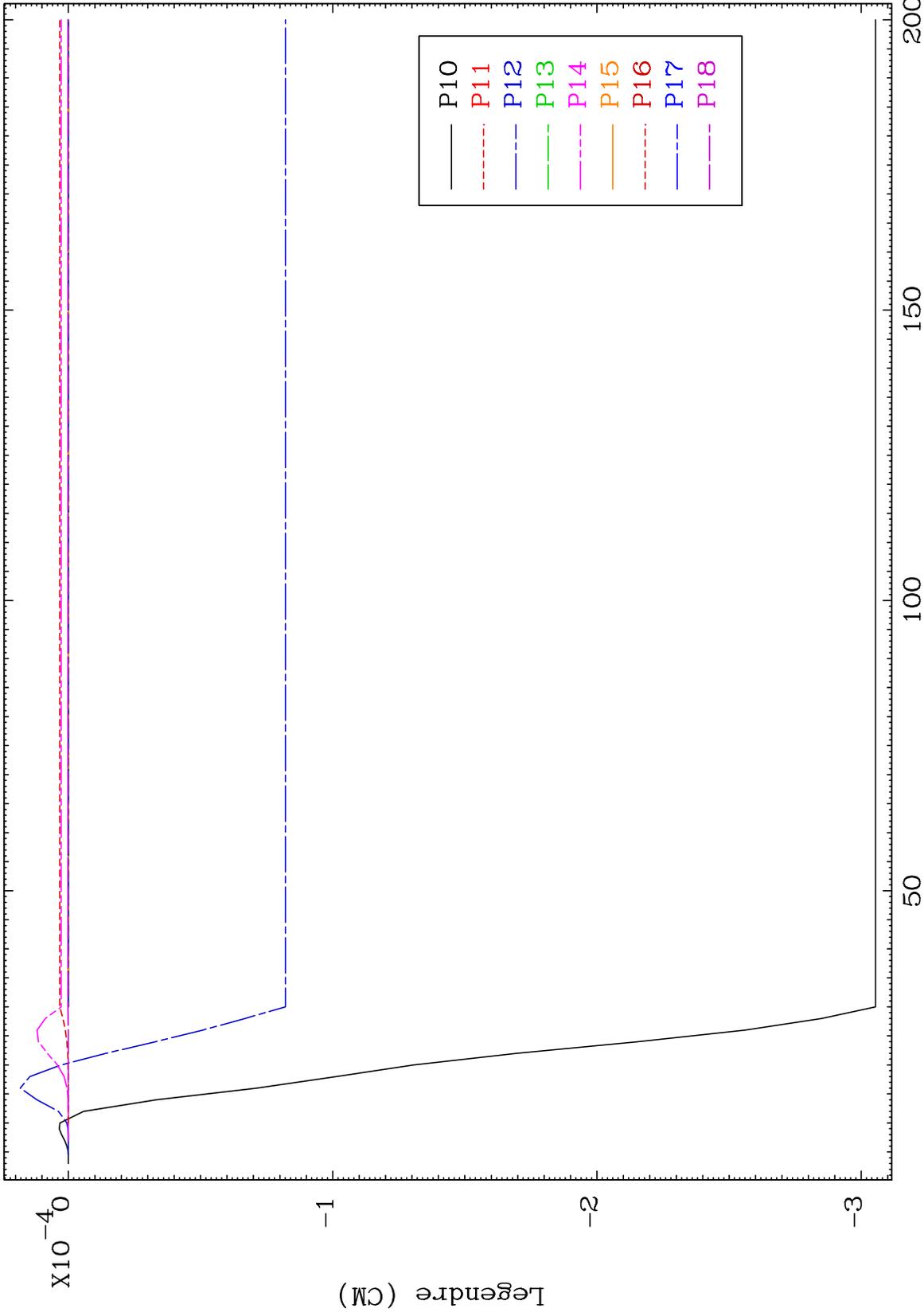


87 31-Ga-80

MAT 3158

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

31-Ga-80

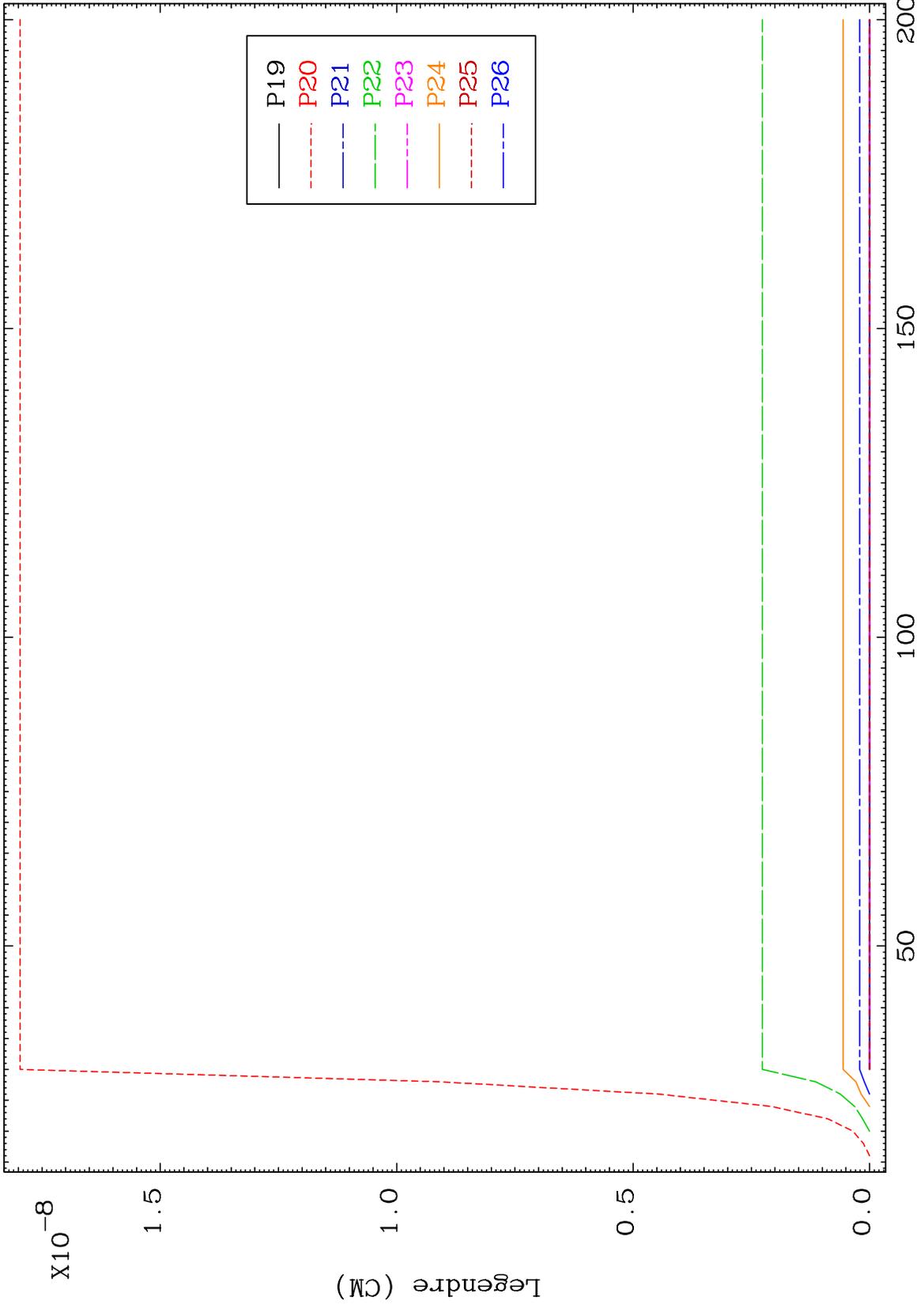


88

Incident Energy (MeV)

31-Ga-80

MAT 3158 MT= 72 (n,n') Level Legendre Coefficients 31-Ga-80

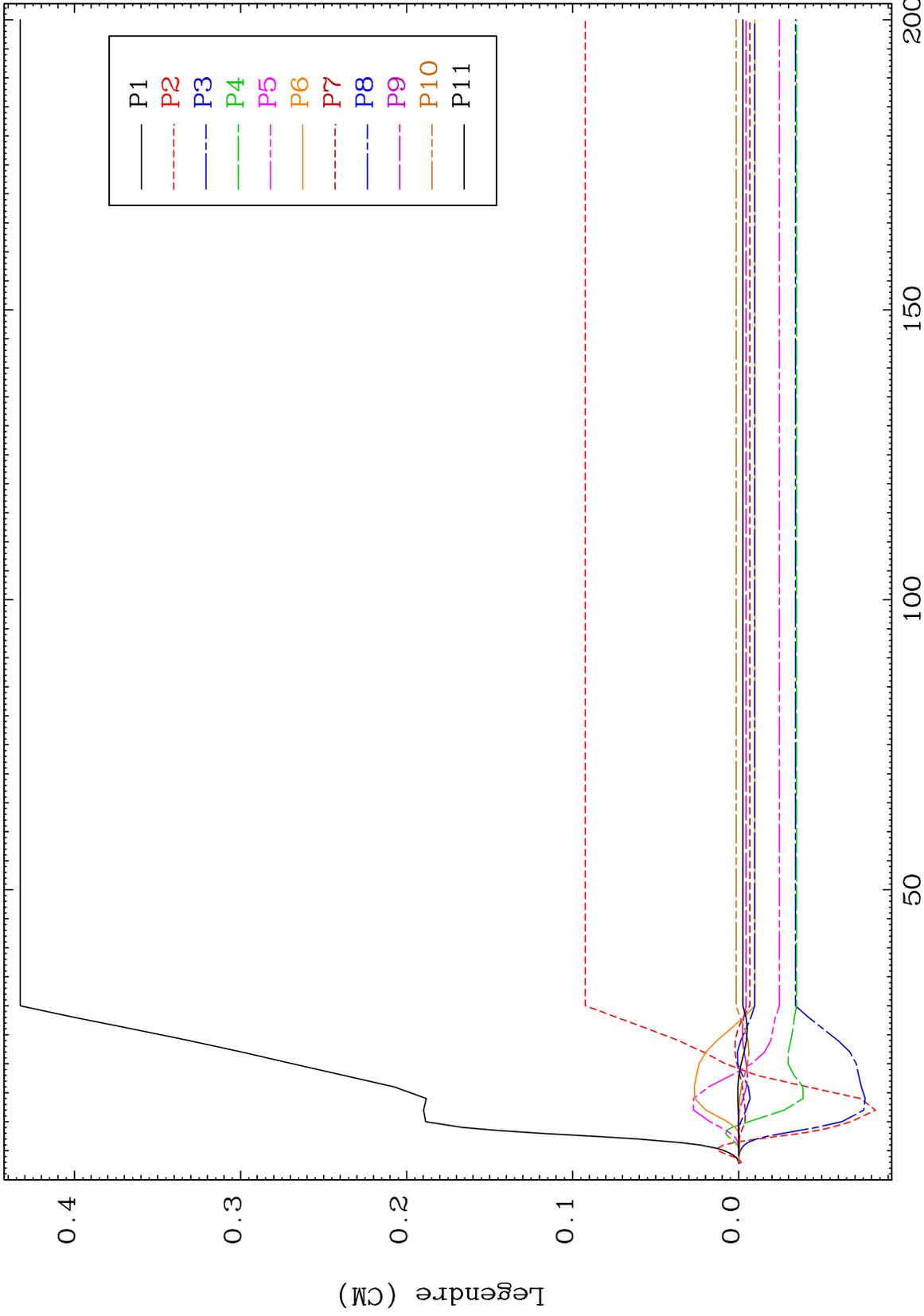


89 31-Ga-80

MAT 3158

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

31-Ga-80



90

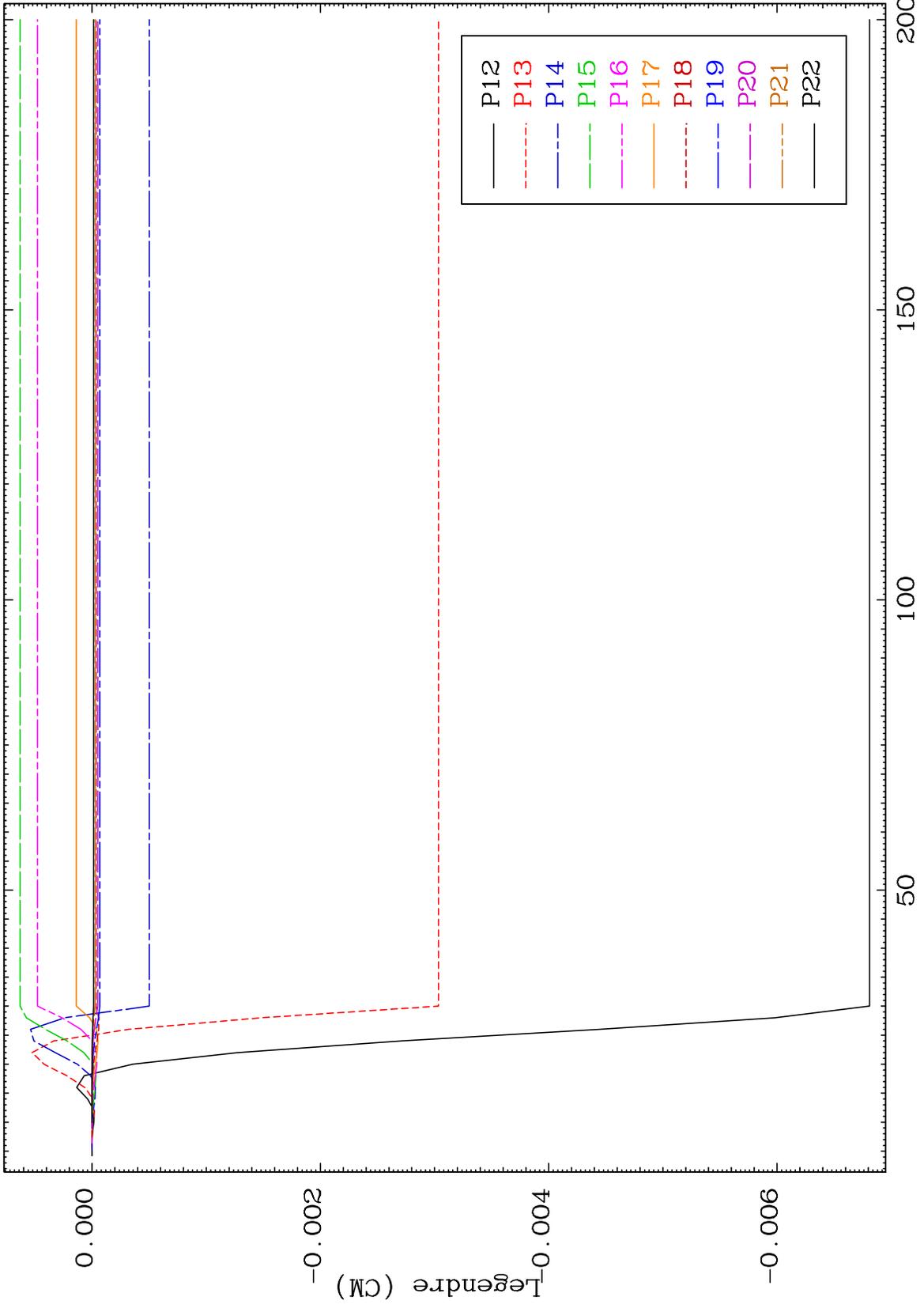
Incident Energy (MeV)

150

31-Ga-80

200

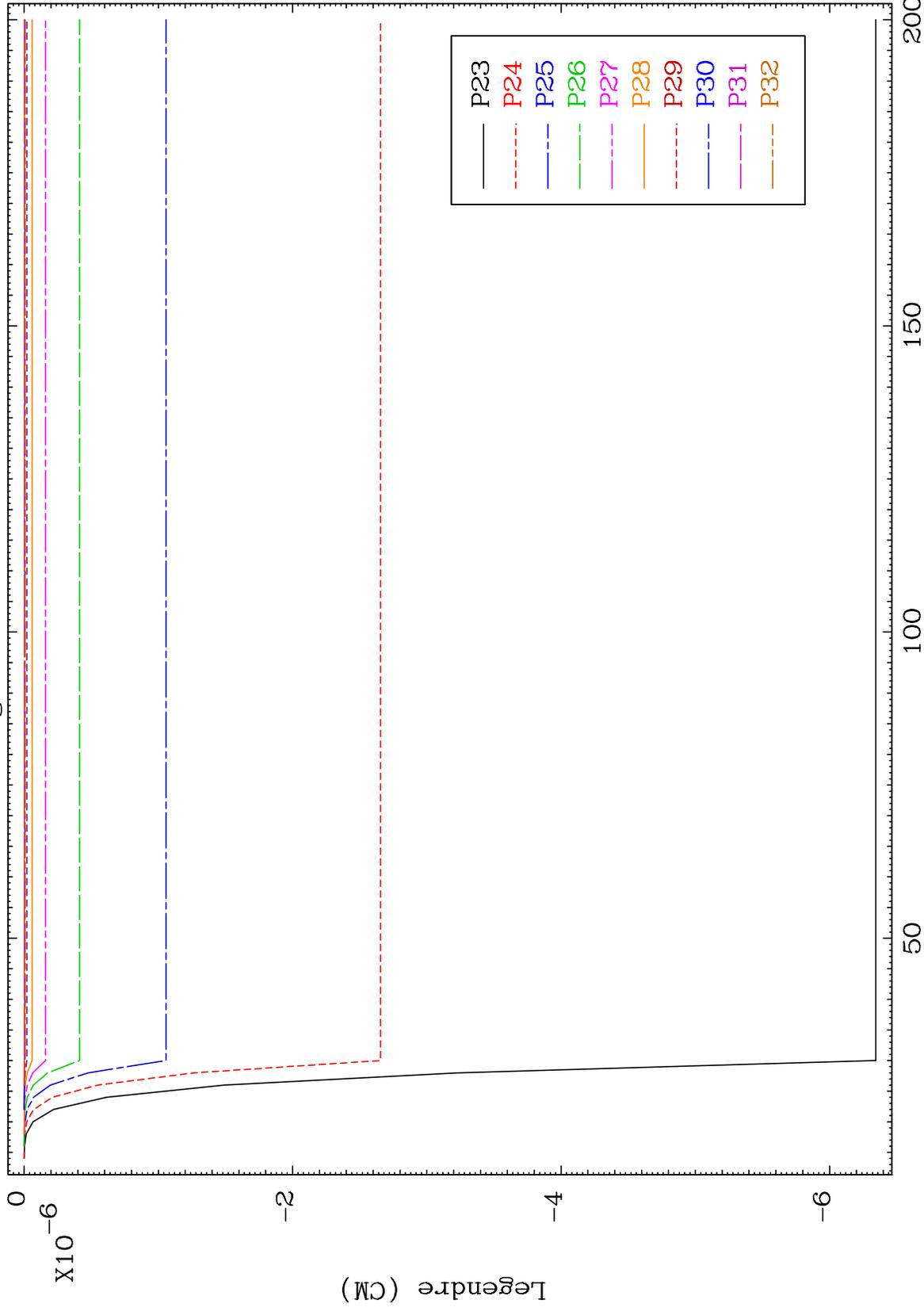
MAT 3158 MT= 73 (n,n') Level Legendre Coefficients 31-Ga-80



MAT 3158

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

31-Ga-80



31-Ga-80

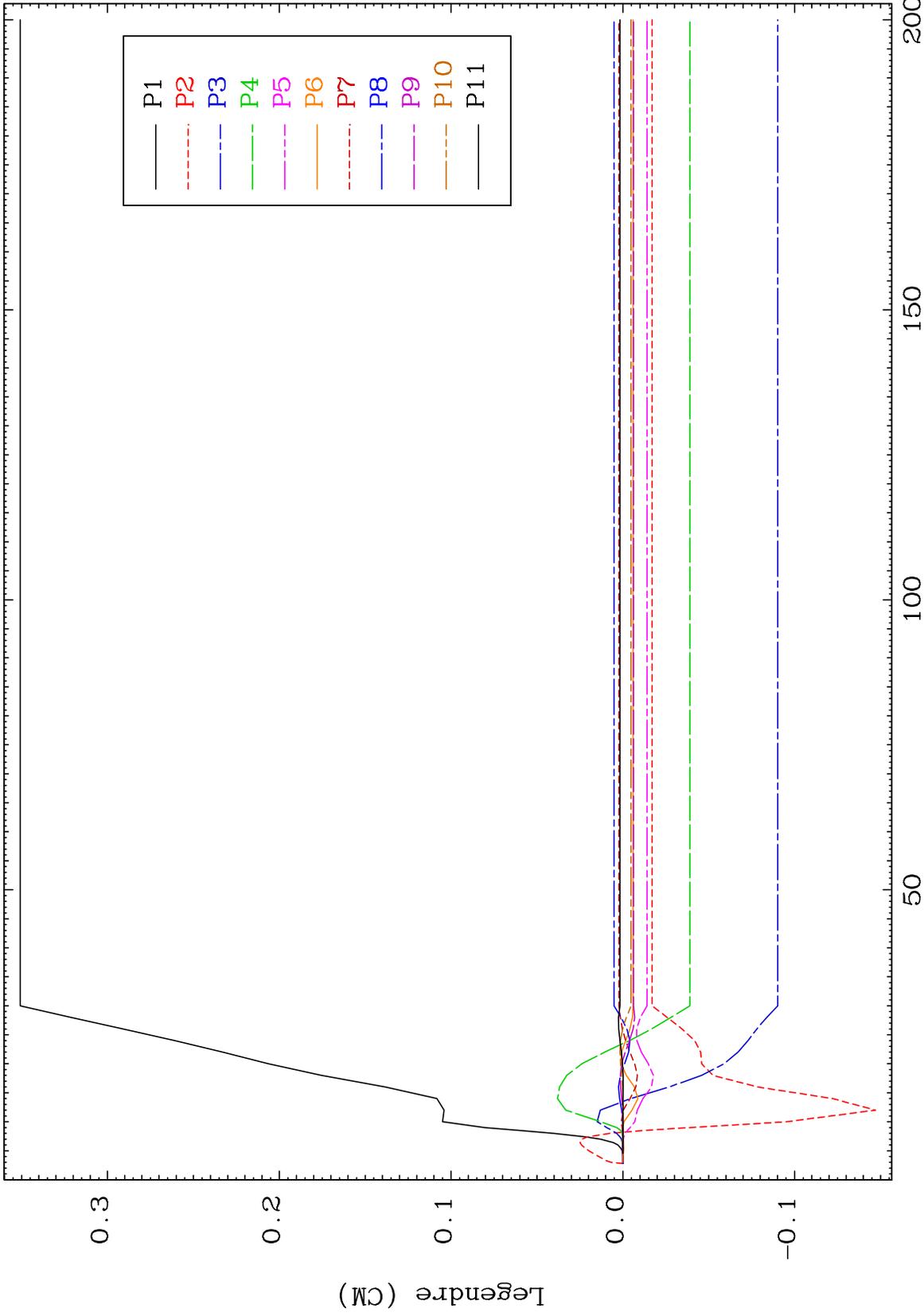
Incident Energy (MeV)

92

MAT 3158

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

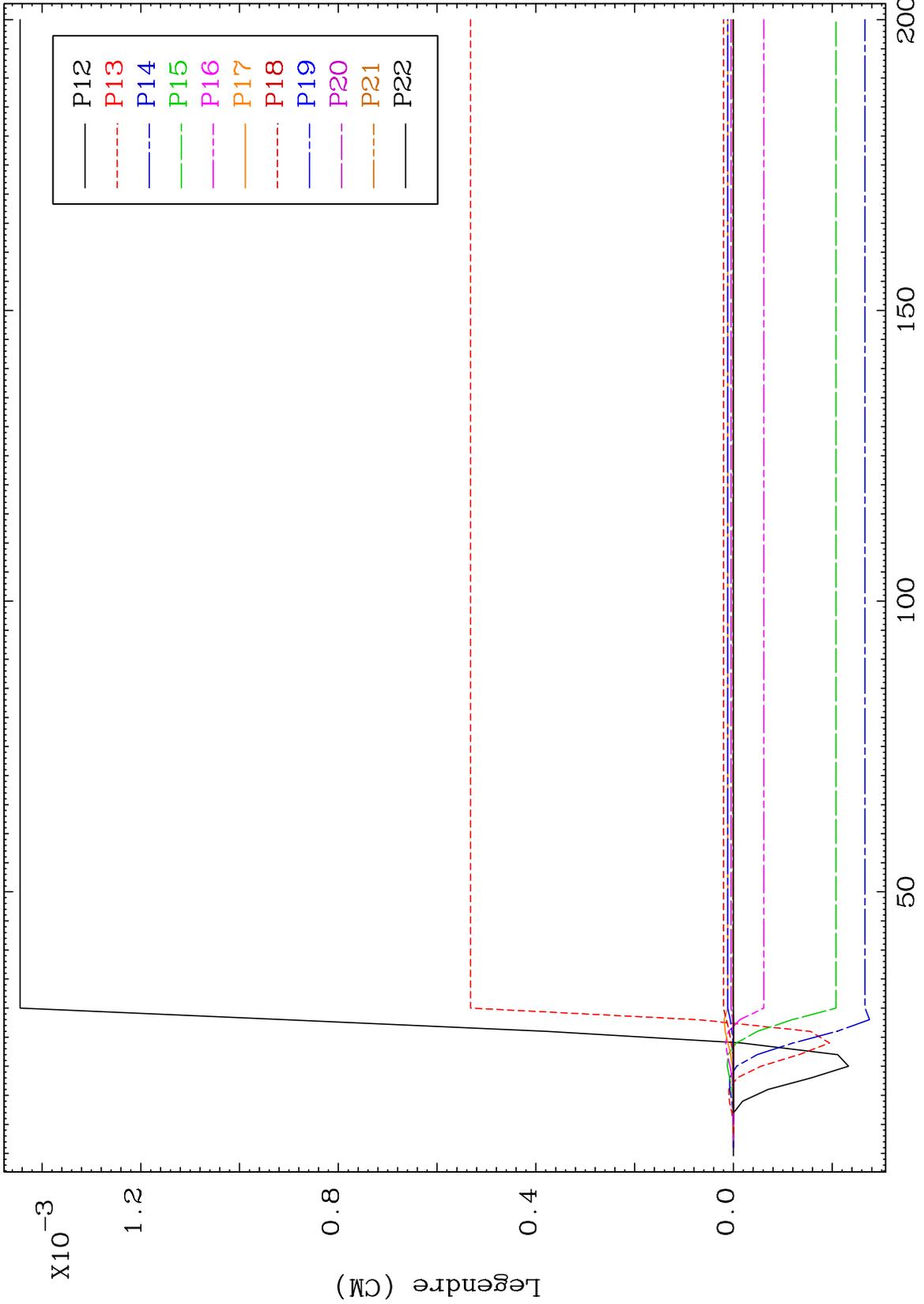
31-Ga-80



MAT 3158

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

31-Ga-80



94

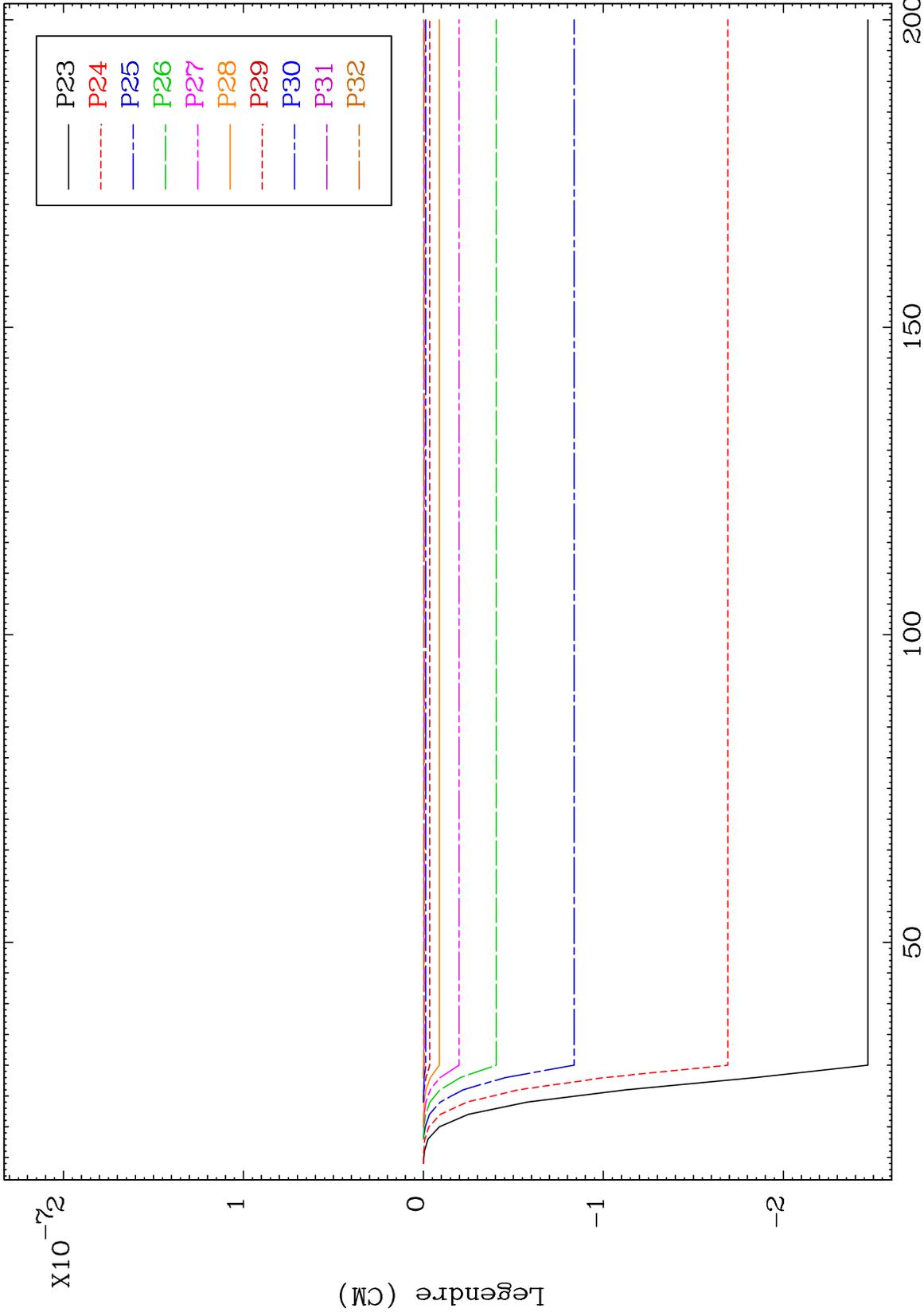
Incident Energy (MeV)

31-Ga-80

MAT 3158

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

31-Ga-80



95

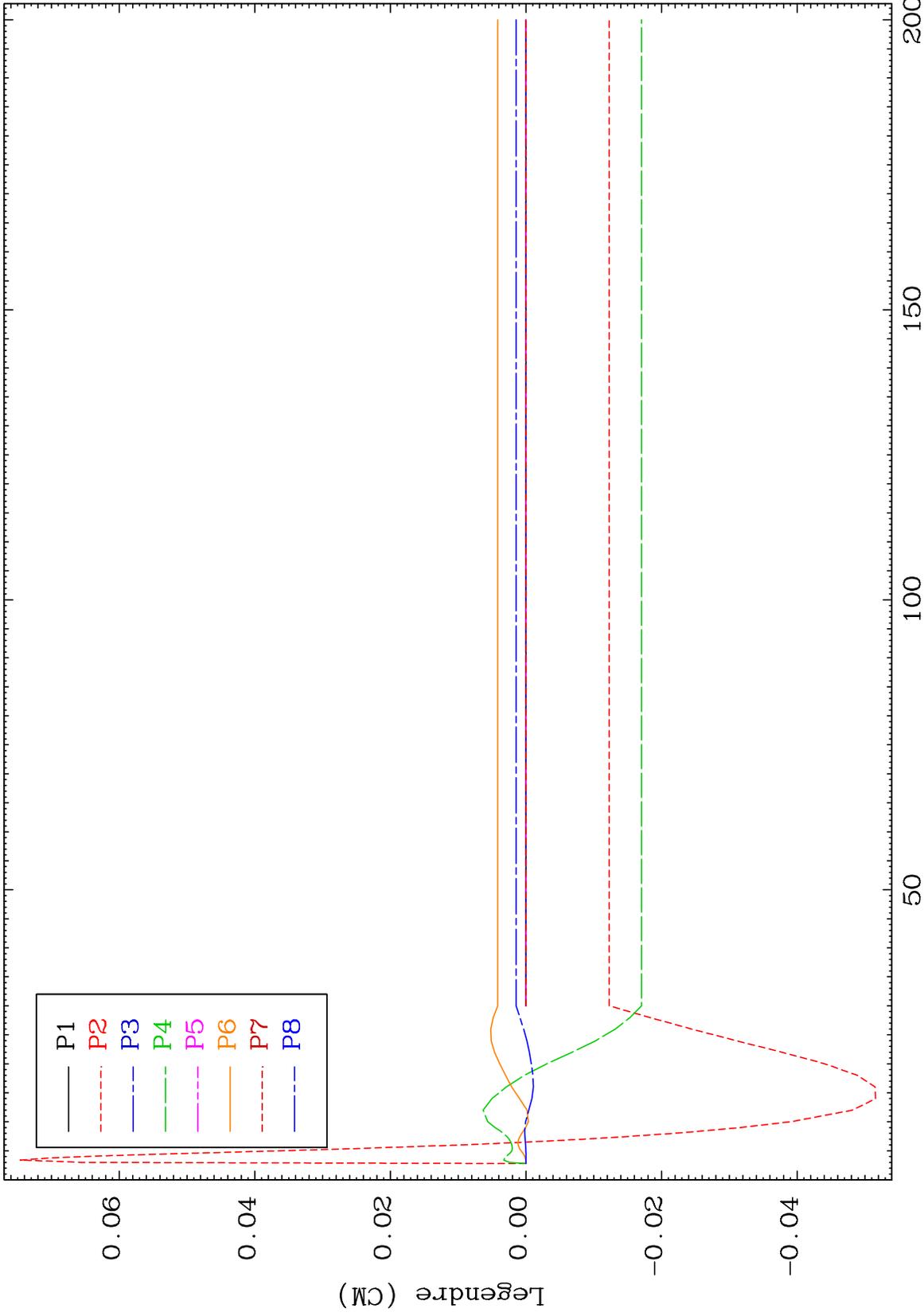
Incident Energy (MeV)

31-Ga-80

MAT 3158

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

31-Ga-80



96

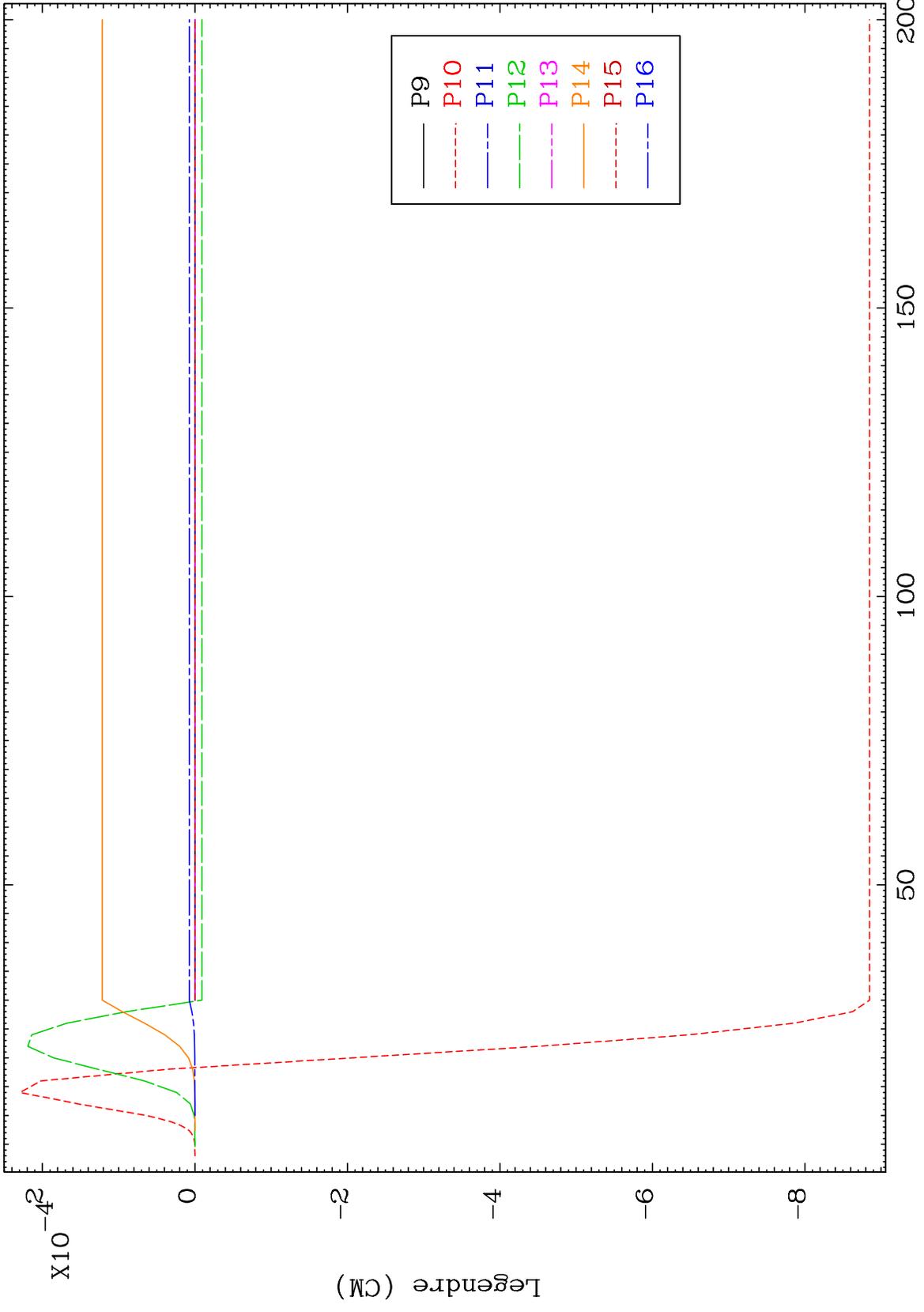
Incident Energy (MeV)

31-Ga-80

MAT 3158

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

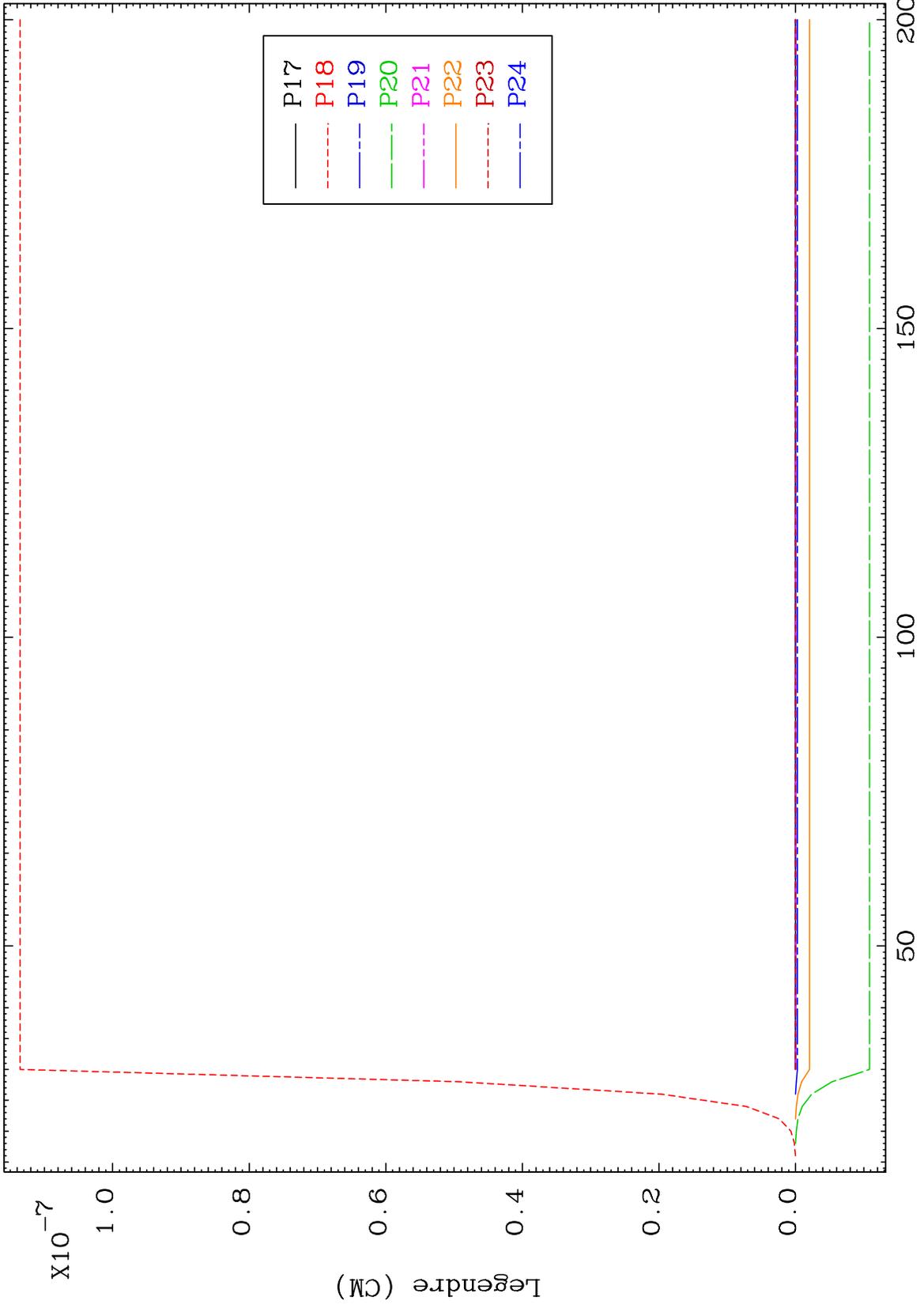
31-Ga-80



97

31-Ga-80

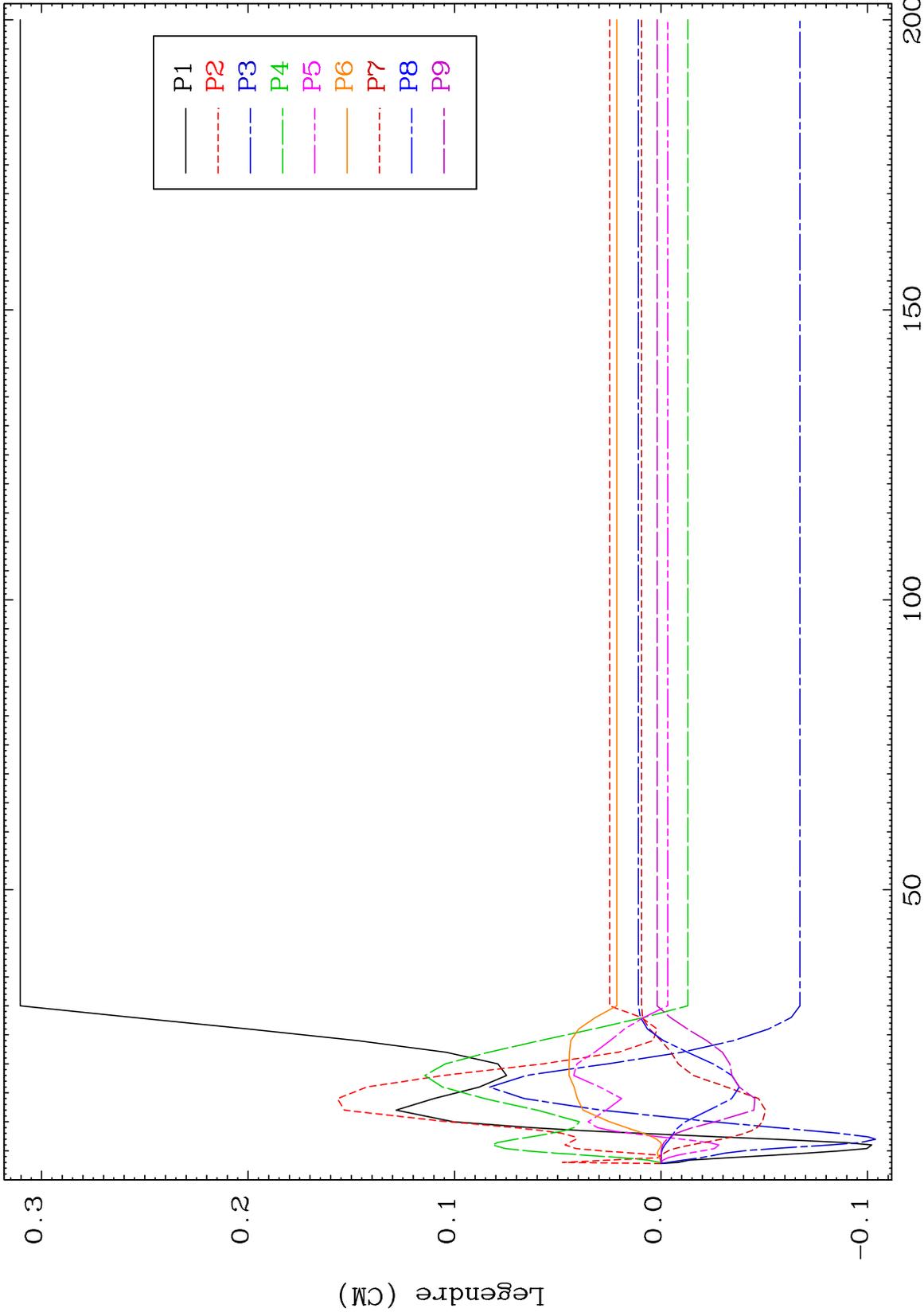
MAT 3158 MT= 75 (n,n') Level Legendre Coefficients 31-Ga-80



MAT 3158

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

31-Ga-80



99

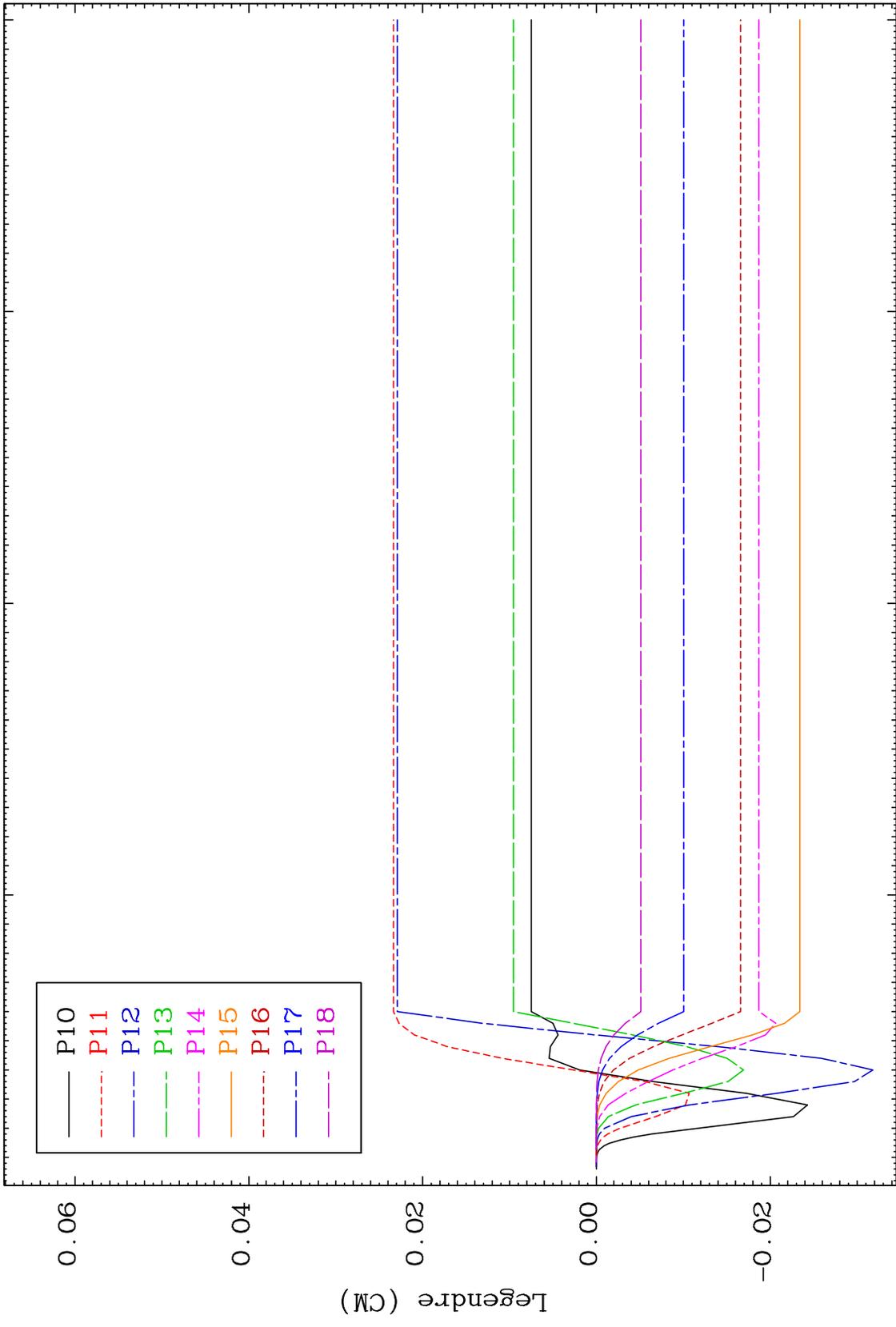
Incident Energy (MeV)

31-Ga-80

MAT 3158

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

31-Ga-80

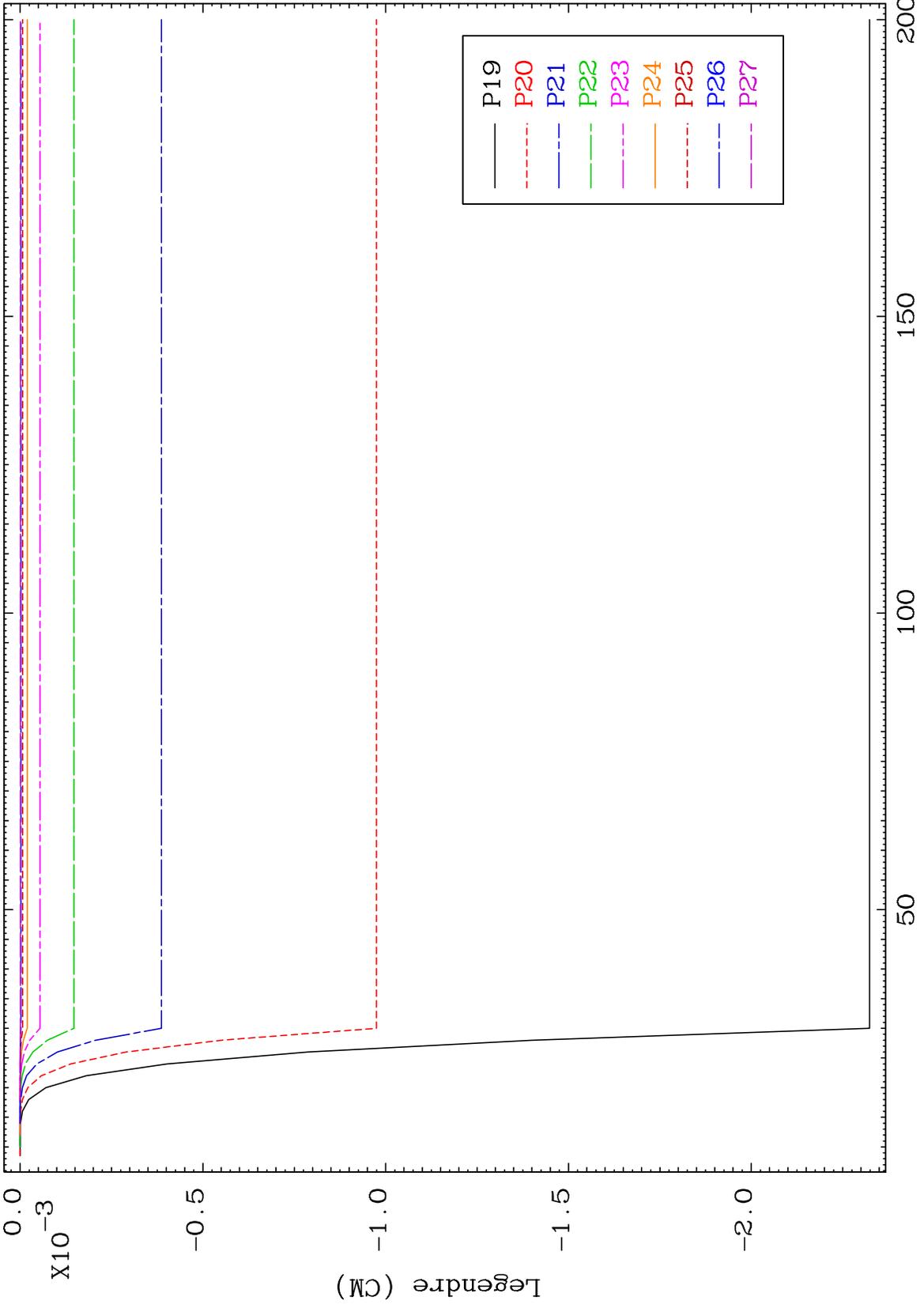


31-Ga-80

Incident Energy (MeV)

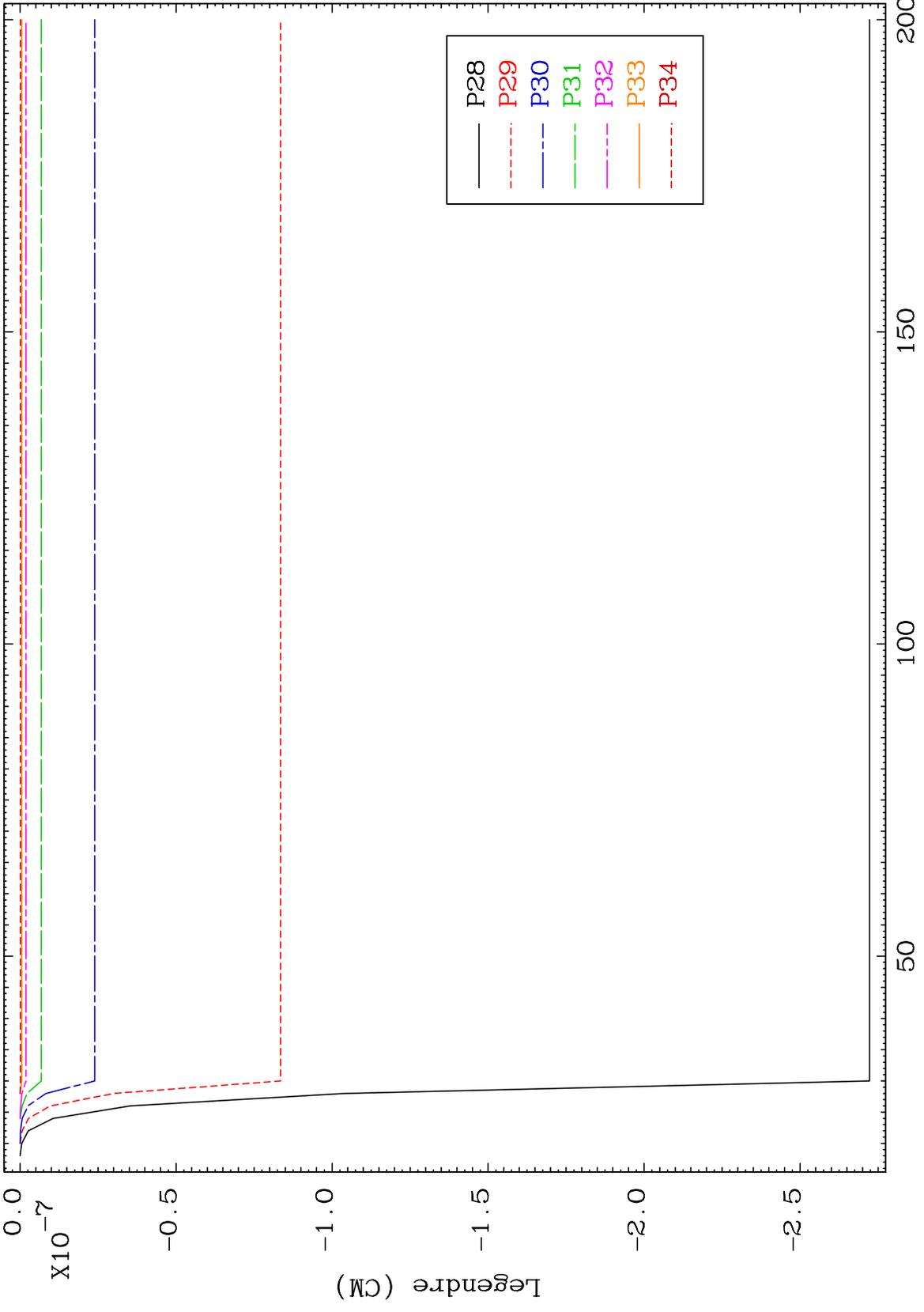
100

MAT 3158 MT= 76 (n,n') Level Legendre Coefficients 31-Ga-80



101 31-Ga-80

MAT 3158 MT= 76 (n,n') Level Legendre Coefficients 31-Ga-80

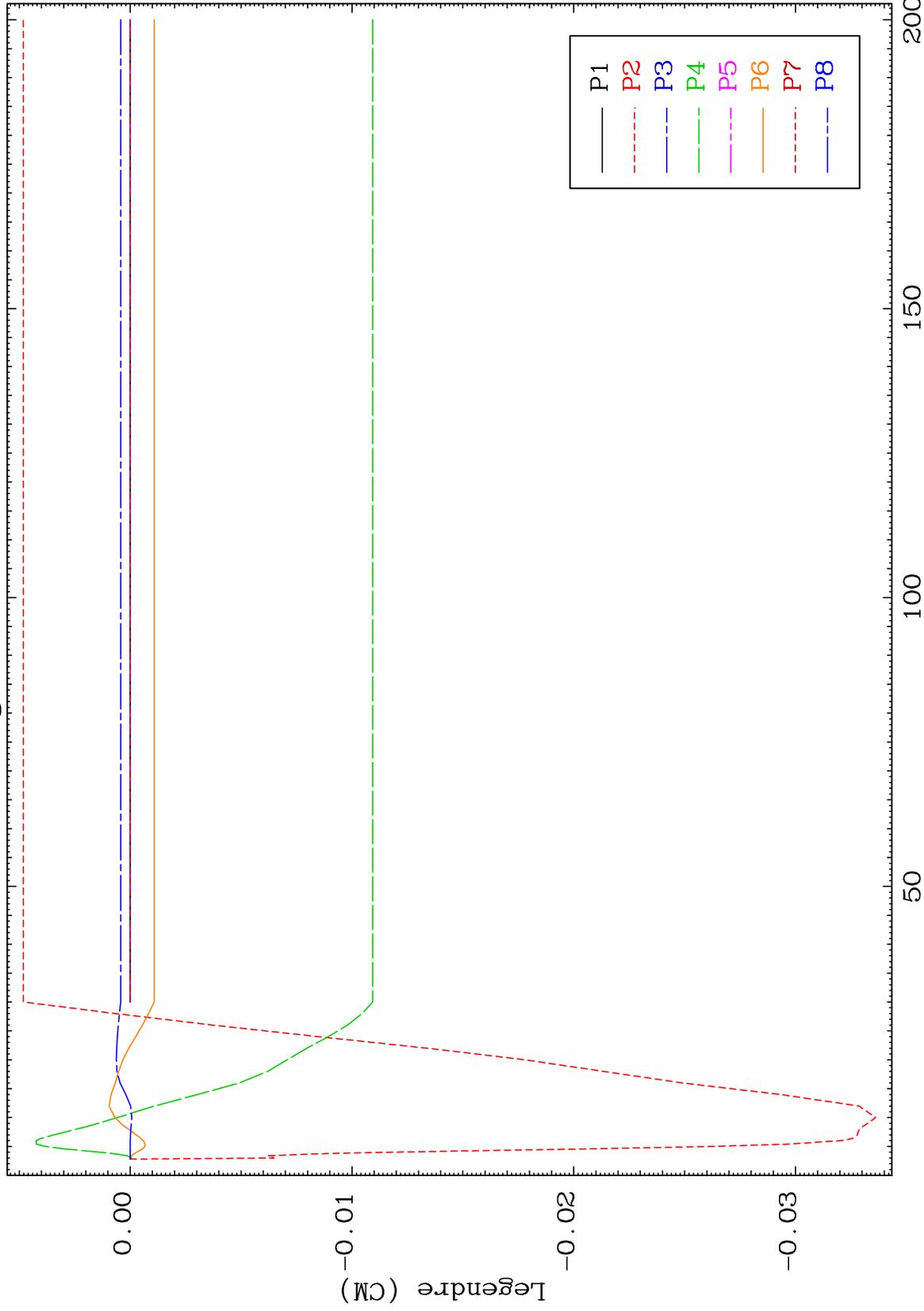


102 31-Ga-80

MAT 3158

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

31-Ga-80



103

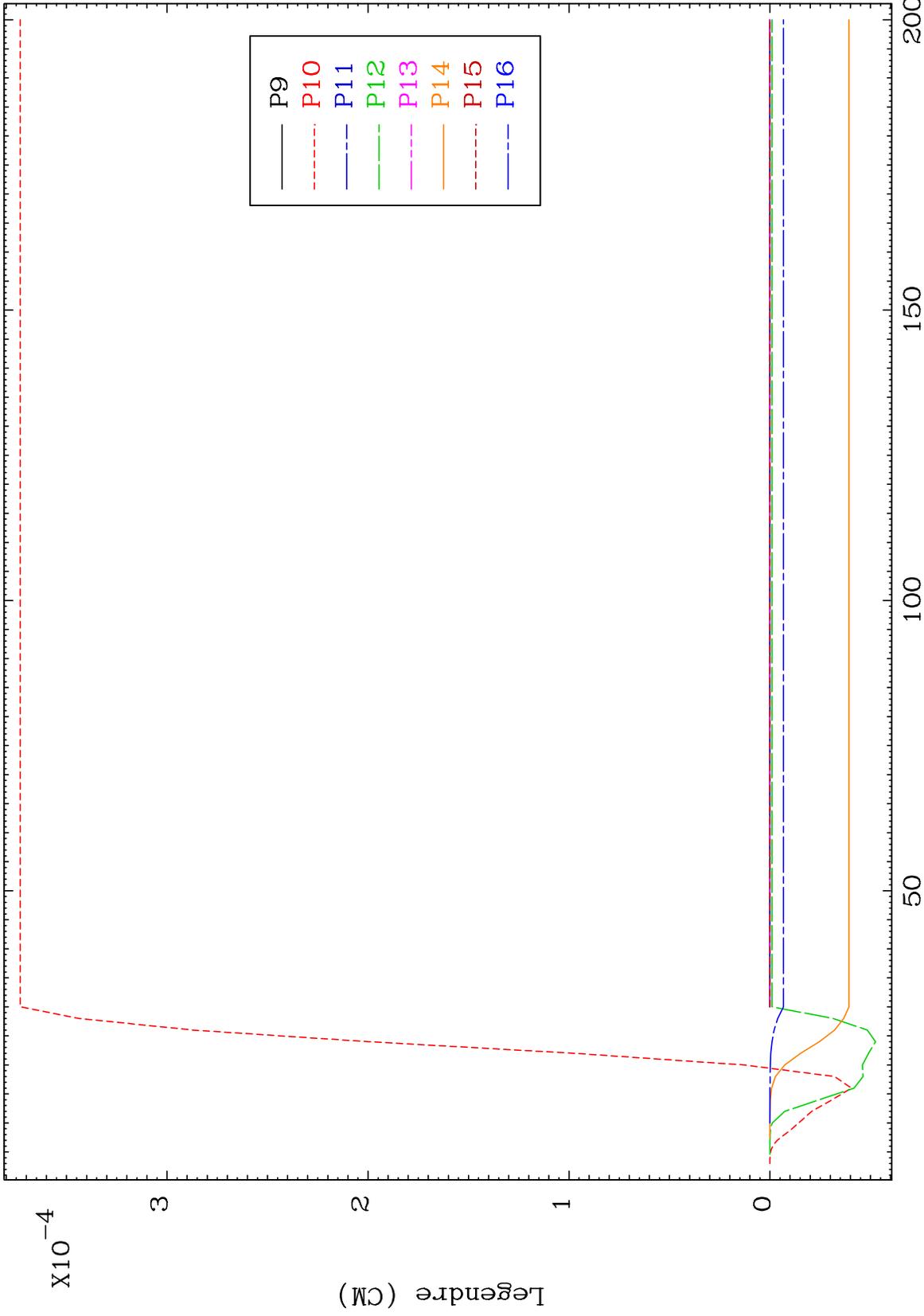
Incident Energy (MeV)

31-Ga-80

MAT 3158

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

31-Ga-80

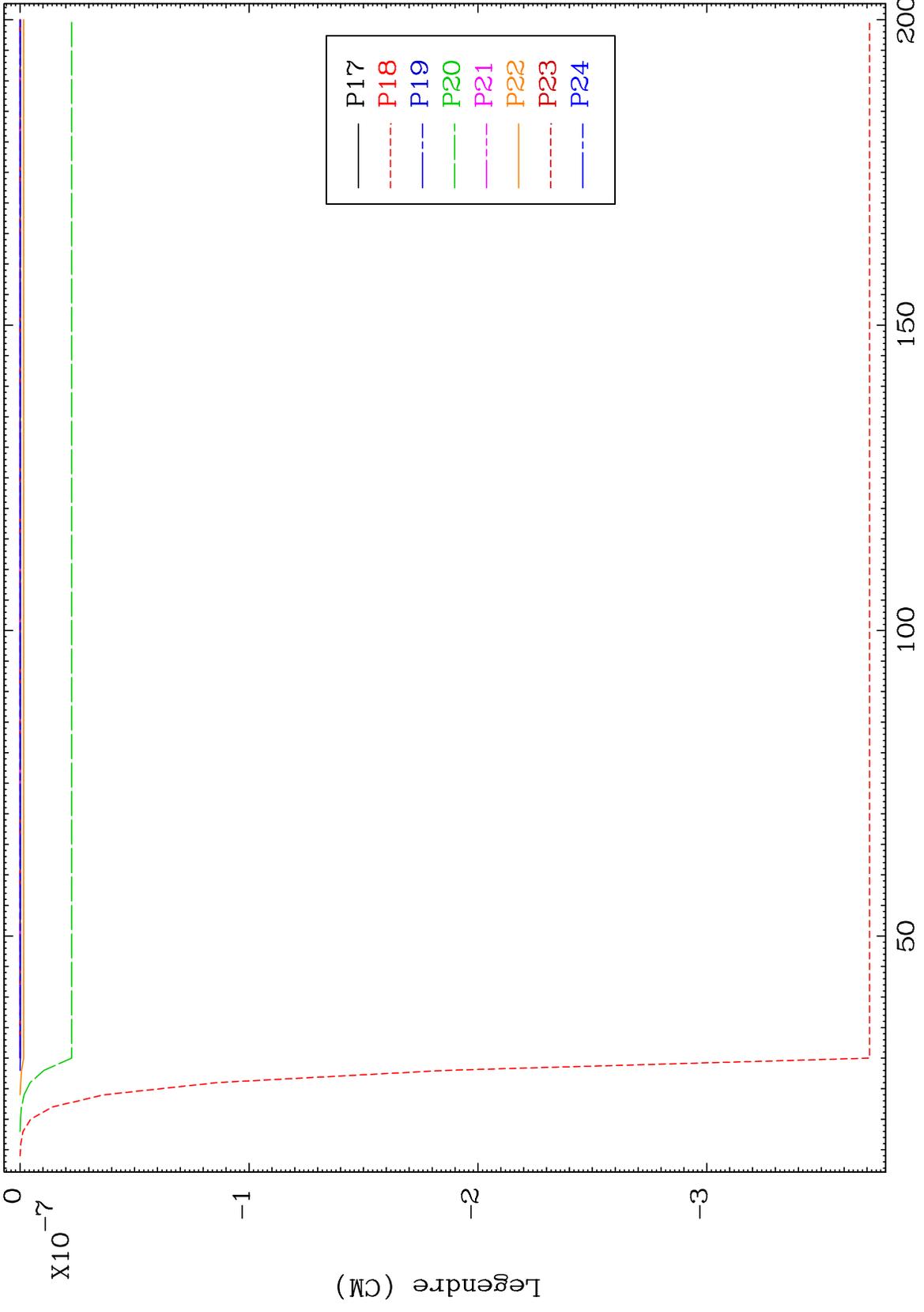


104

Incident Energy (MeV)

31-Ga-80

MAT 3158 MT= 77 (n,n') Level Legendre Coefficients 31-Ga-80

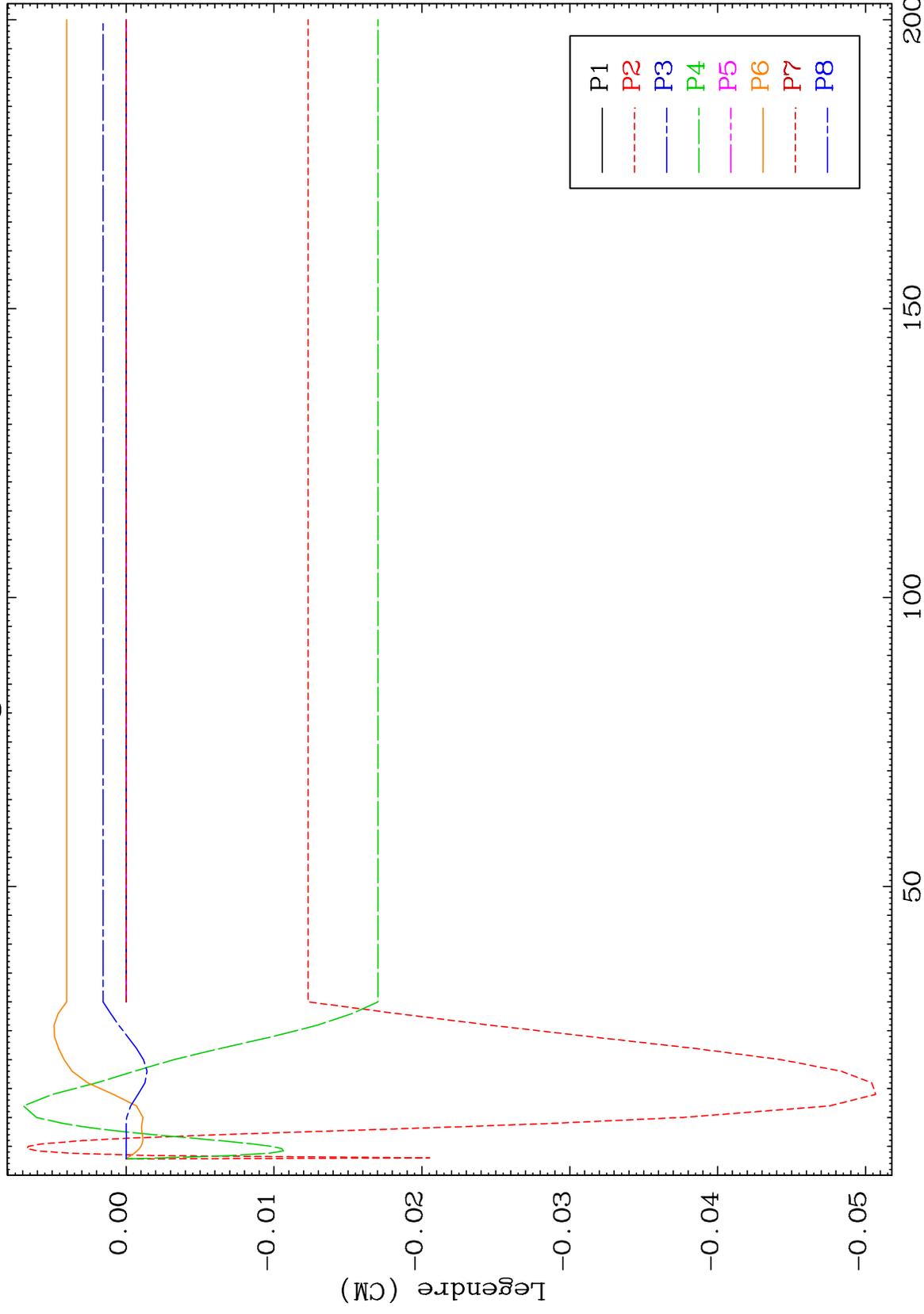


Incident Energy (MeV) 31-Ga-80

MAT 3158

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

31-Ga-80



106

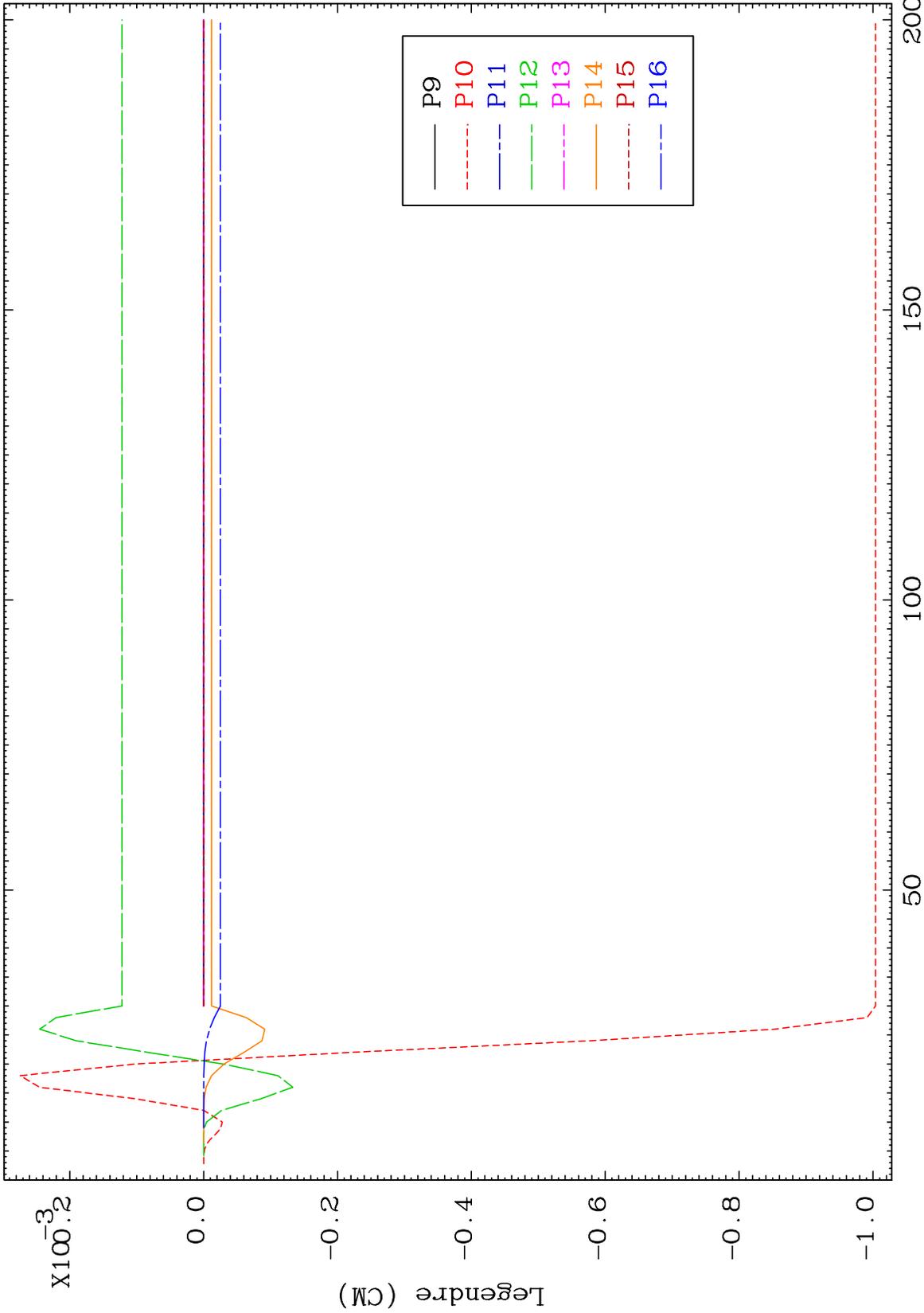
Incident Energy (MeV)

31-Ga-80

MAT 3158

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

31-Ga-80

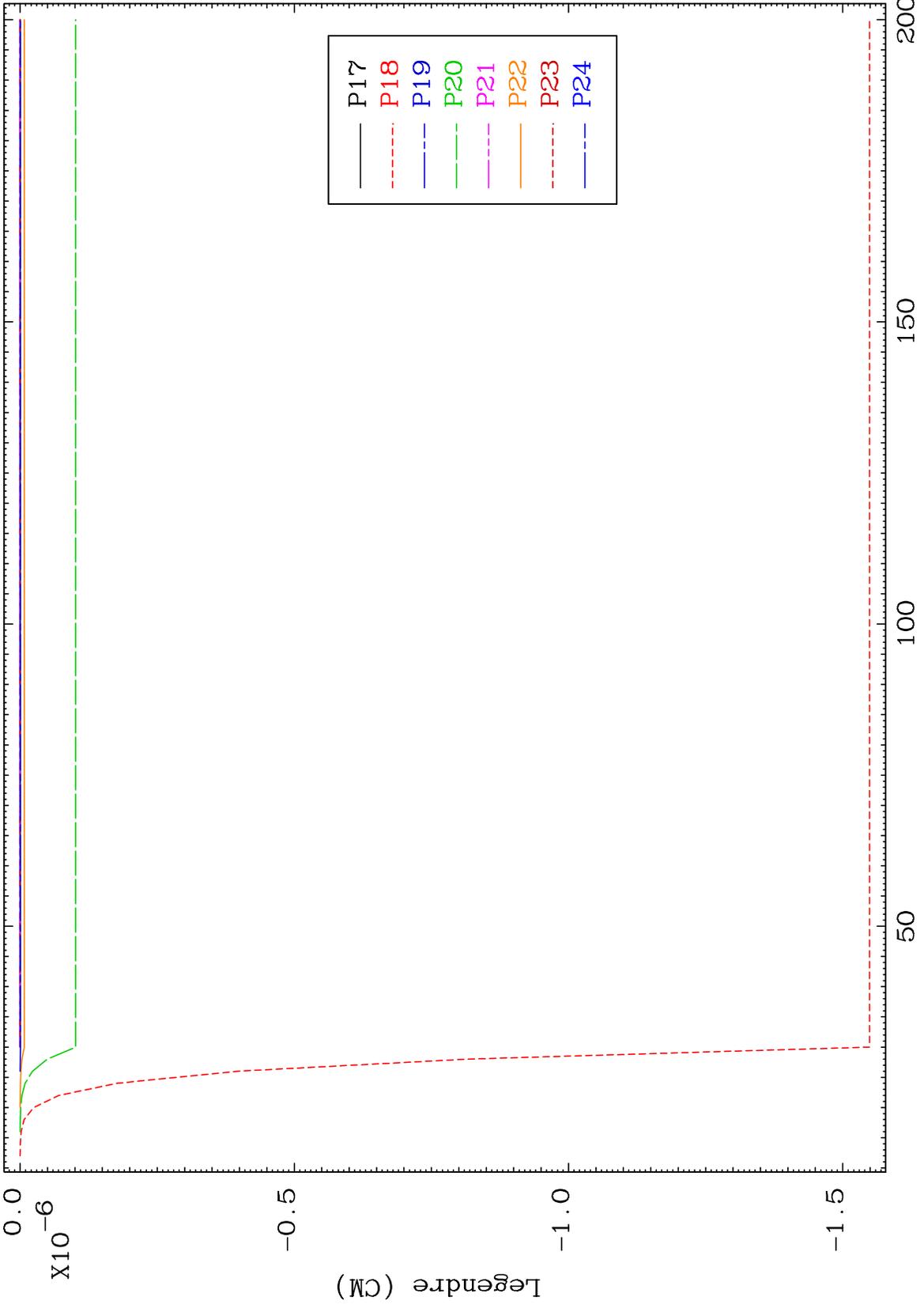


107

Incident Energy (MeV)

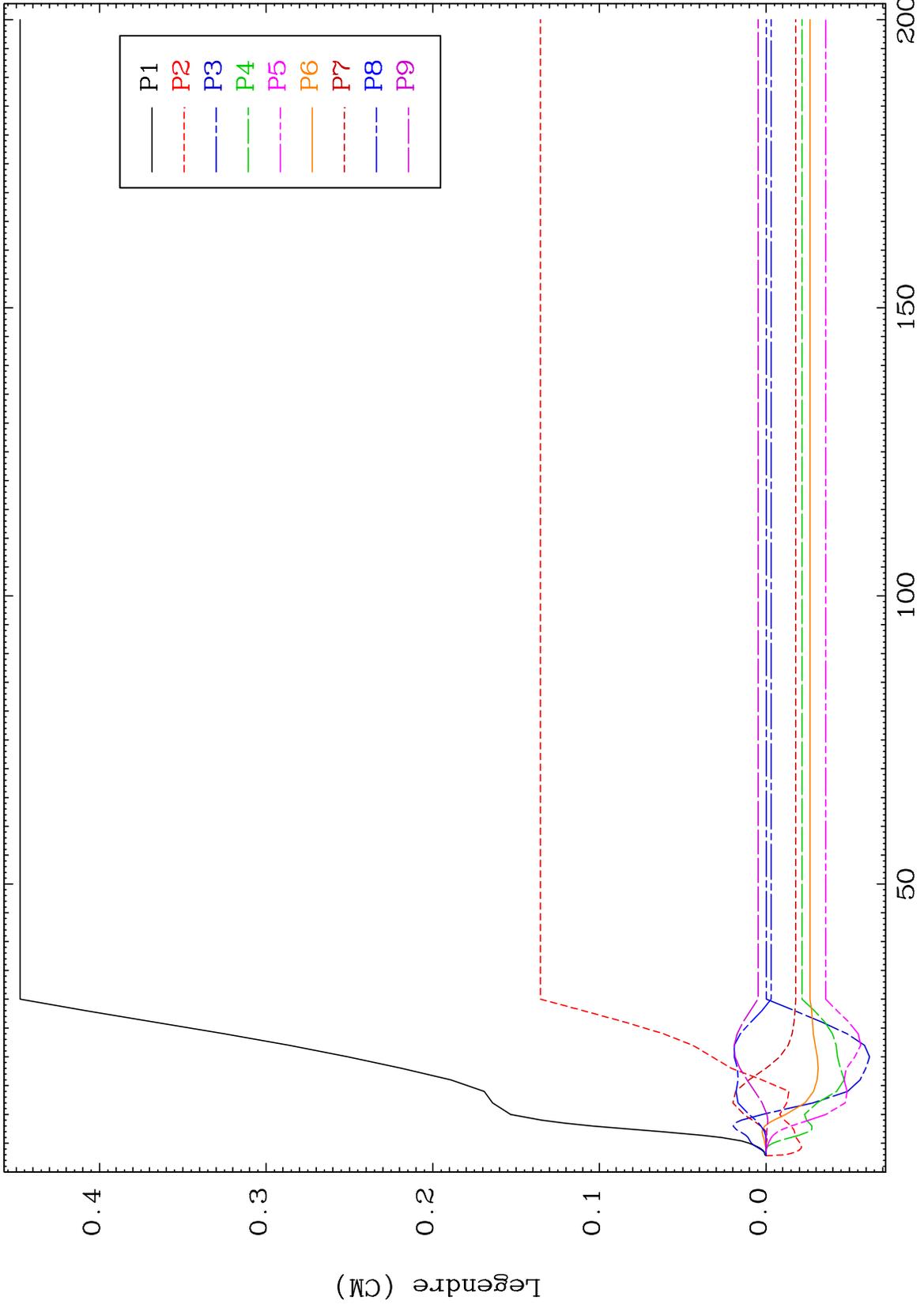
31-Ga-80

MAT 3158 MT= 78 (n,n') Level Legendre Coefficients 31-Ga-80



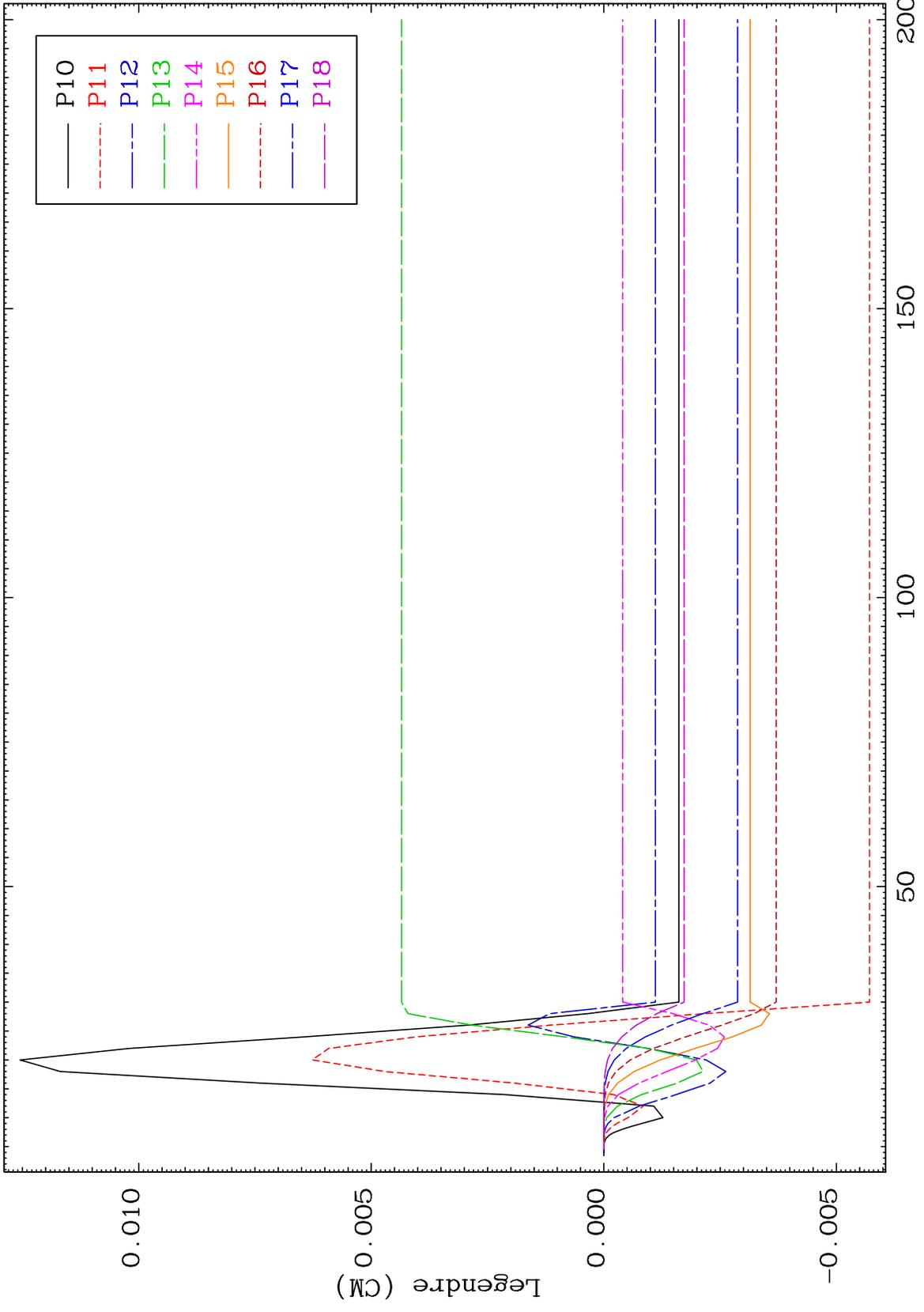
108 31-Ga-80

MAT 3158 MT= 79 (n,n') Level Legendre Coefficients 31-Ga-80



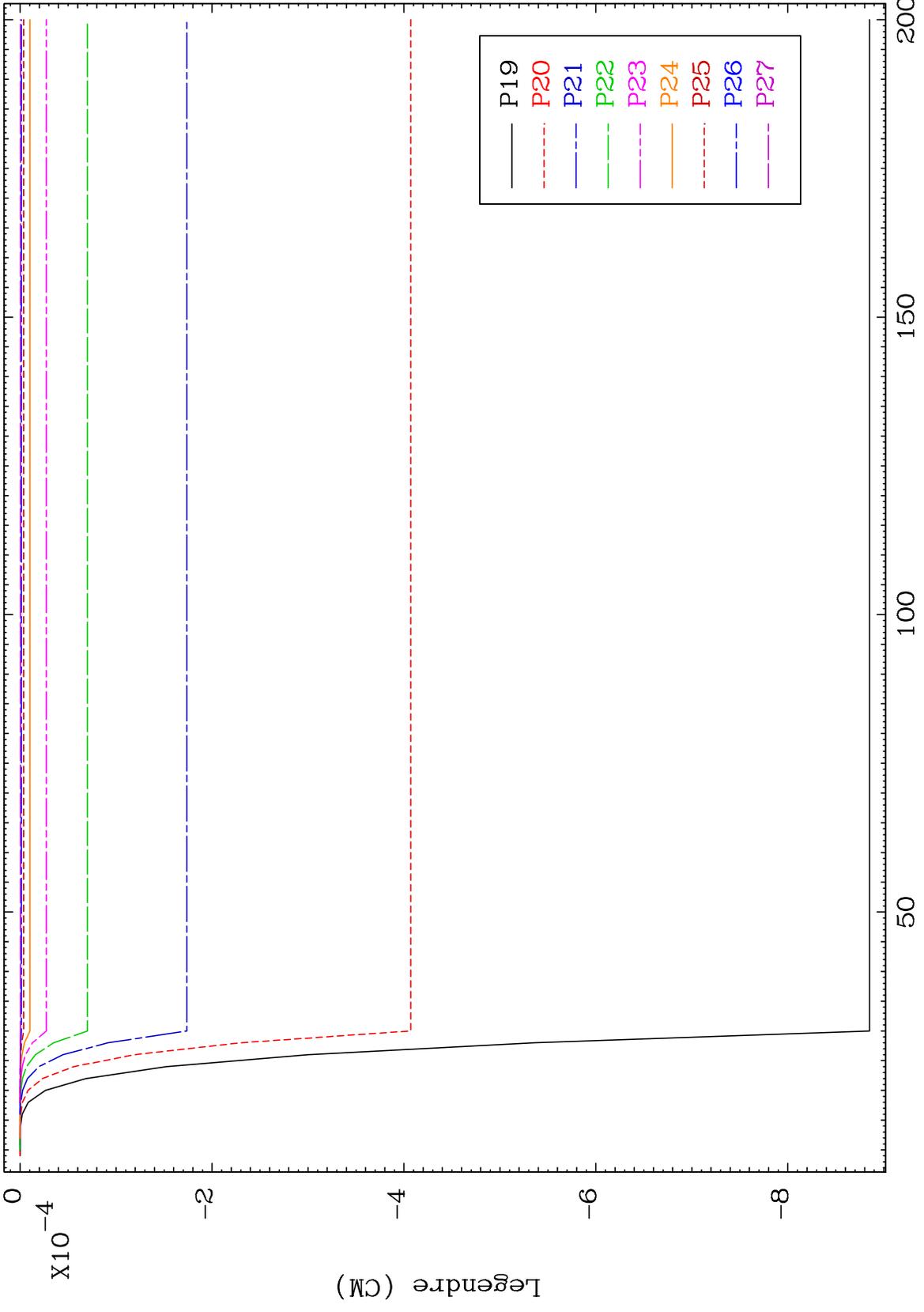
109 Incident Energy (MeV) 31-Ga-80

MAT 3158 MT= 79 (n,n') Level Legendre Coefficients 31-Ga-80

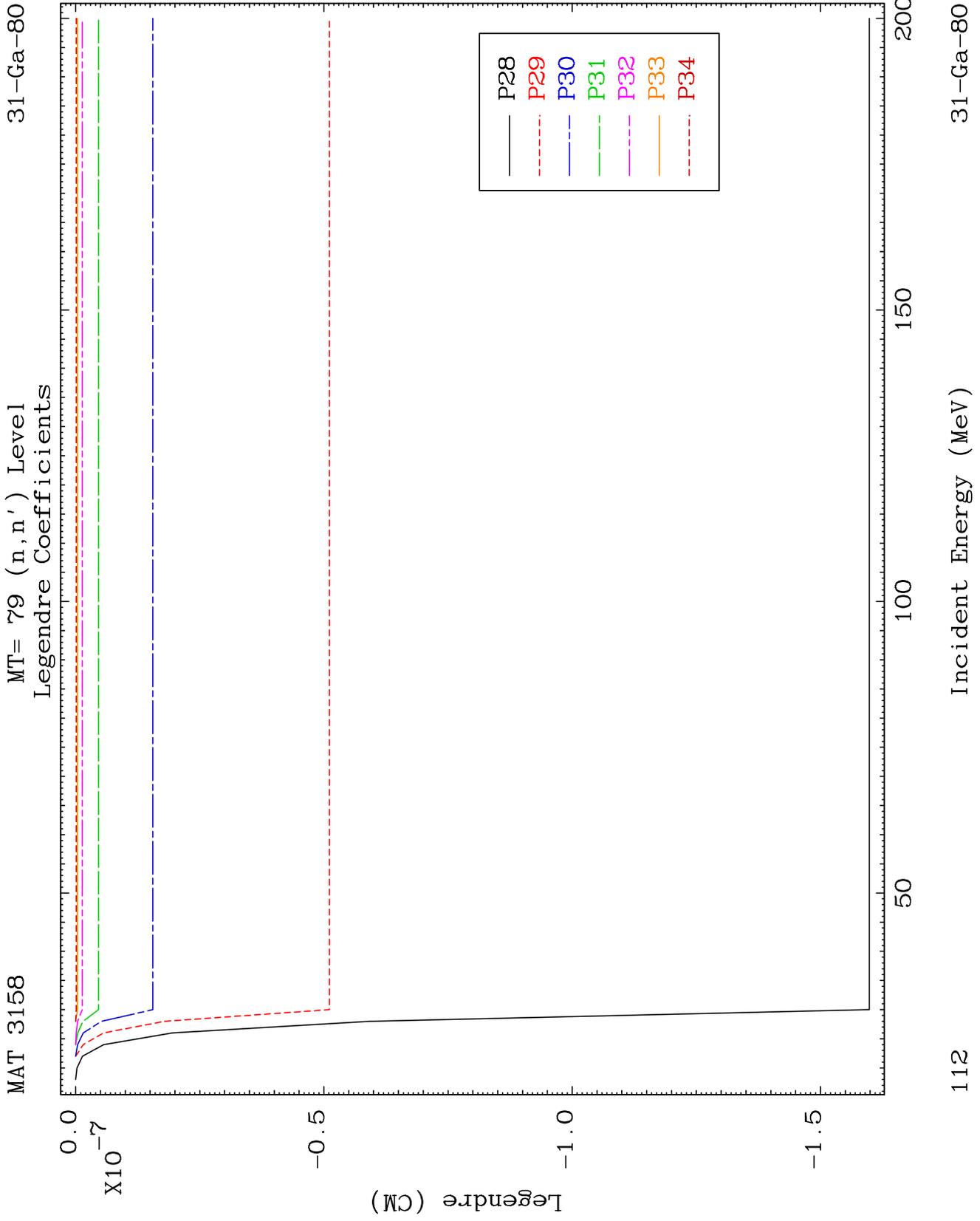


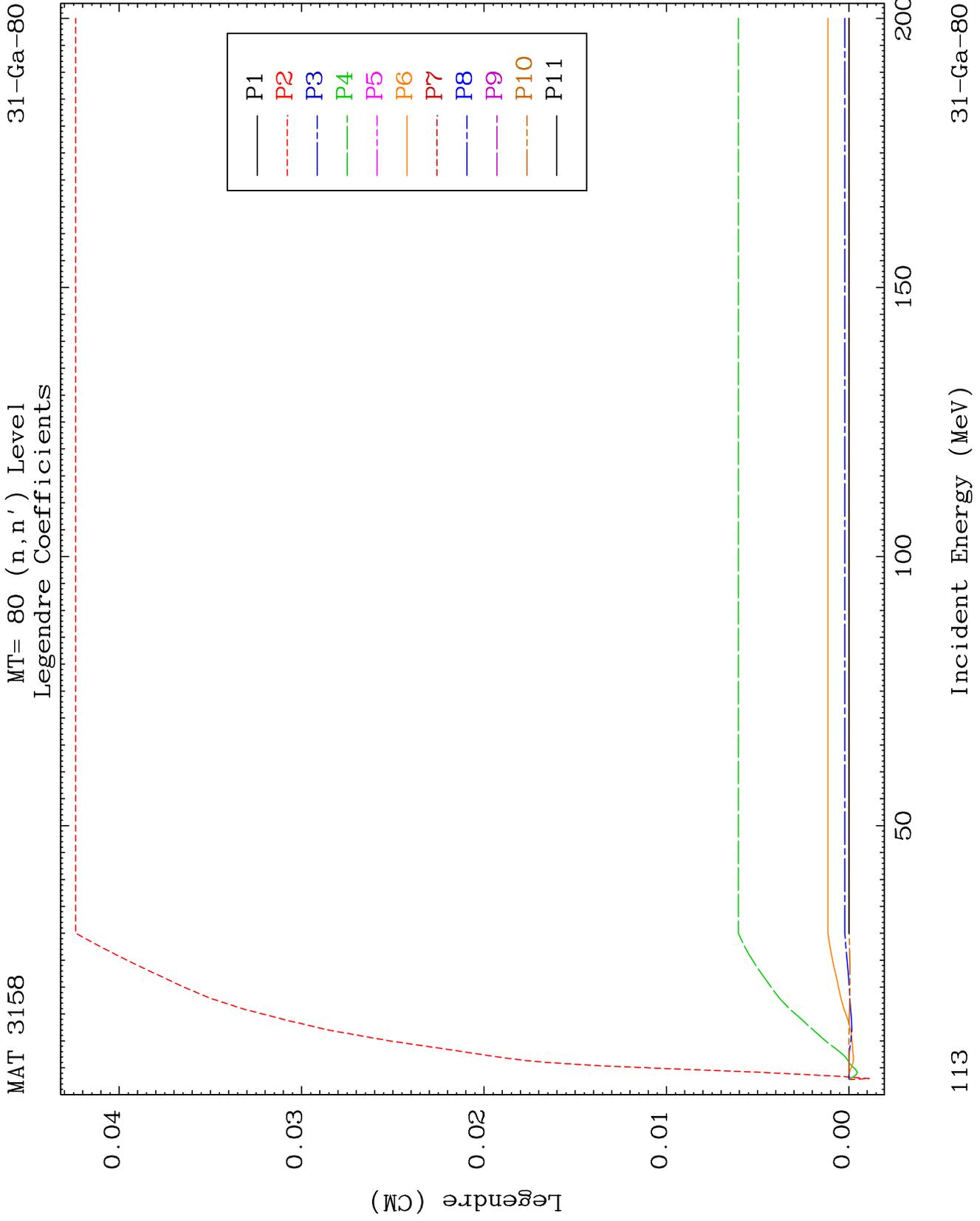
110 Incident Energy (MeV) 31-Ga-80

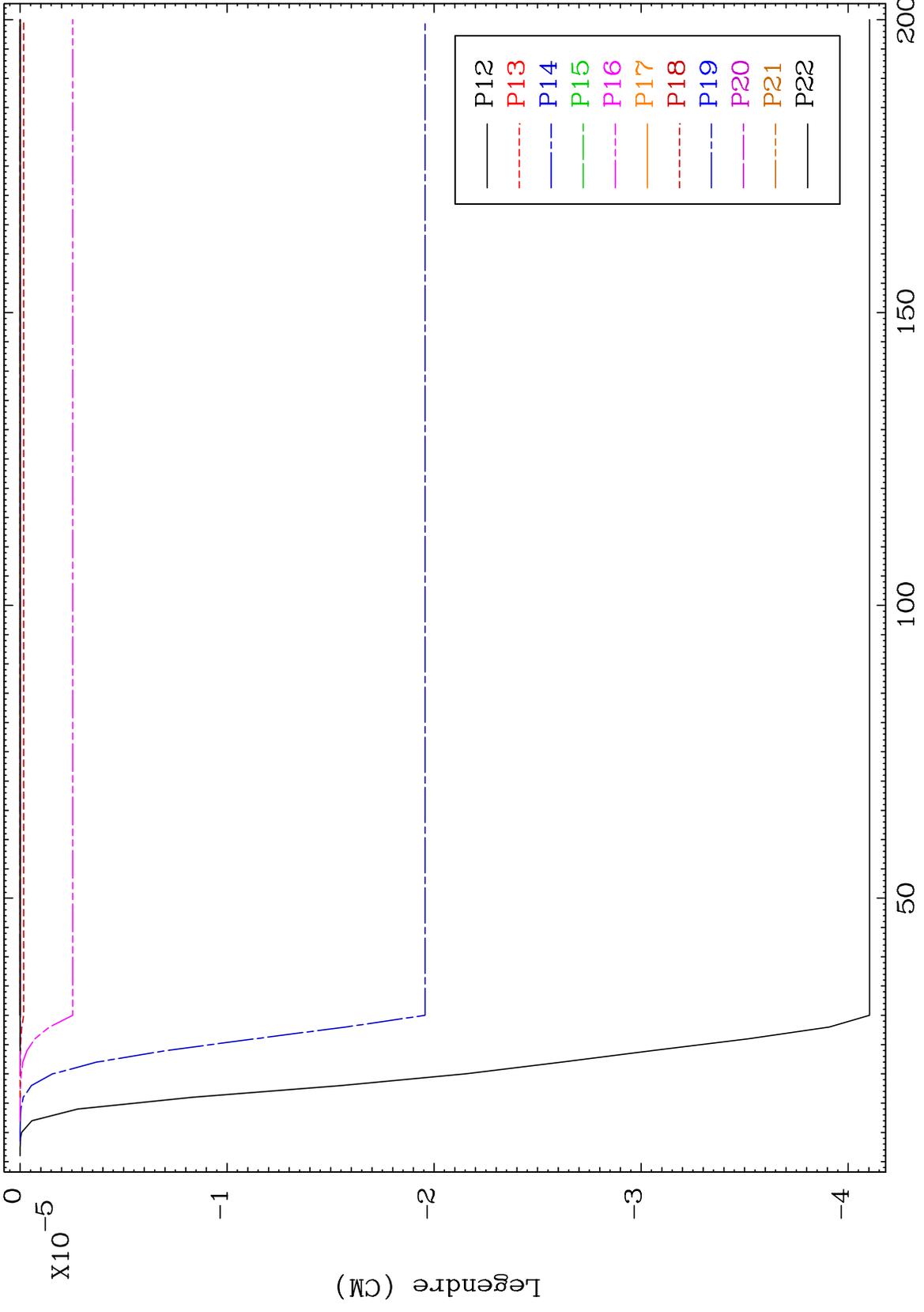
MAT 3158 MT= 79 (n,n') Level Legendre Coefficients 31-Ga-80



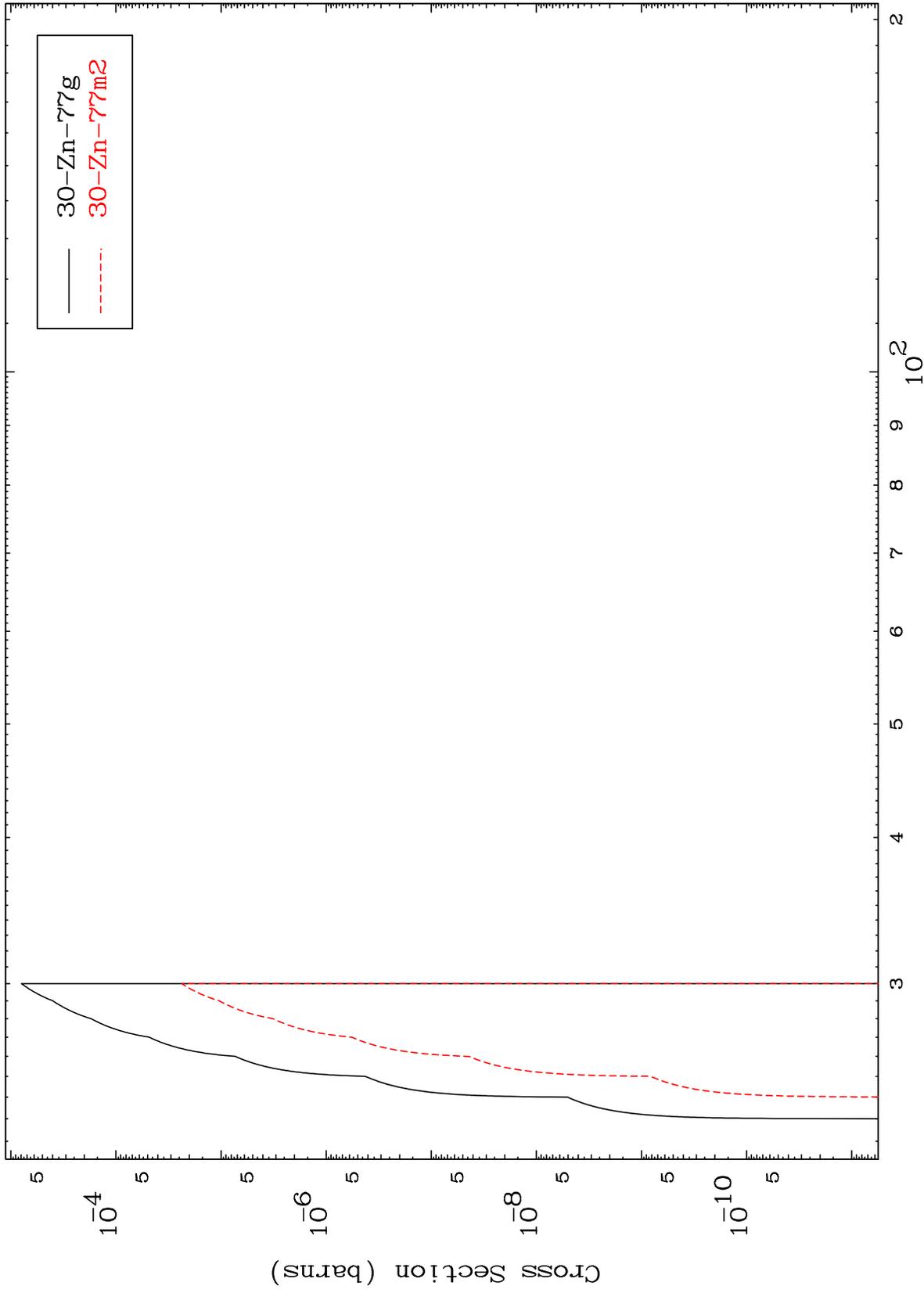
111 31-Ga-80







Radionuclide Production Cross Section

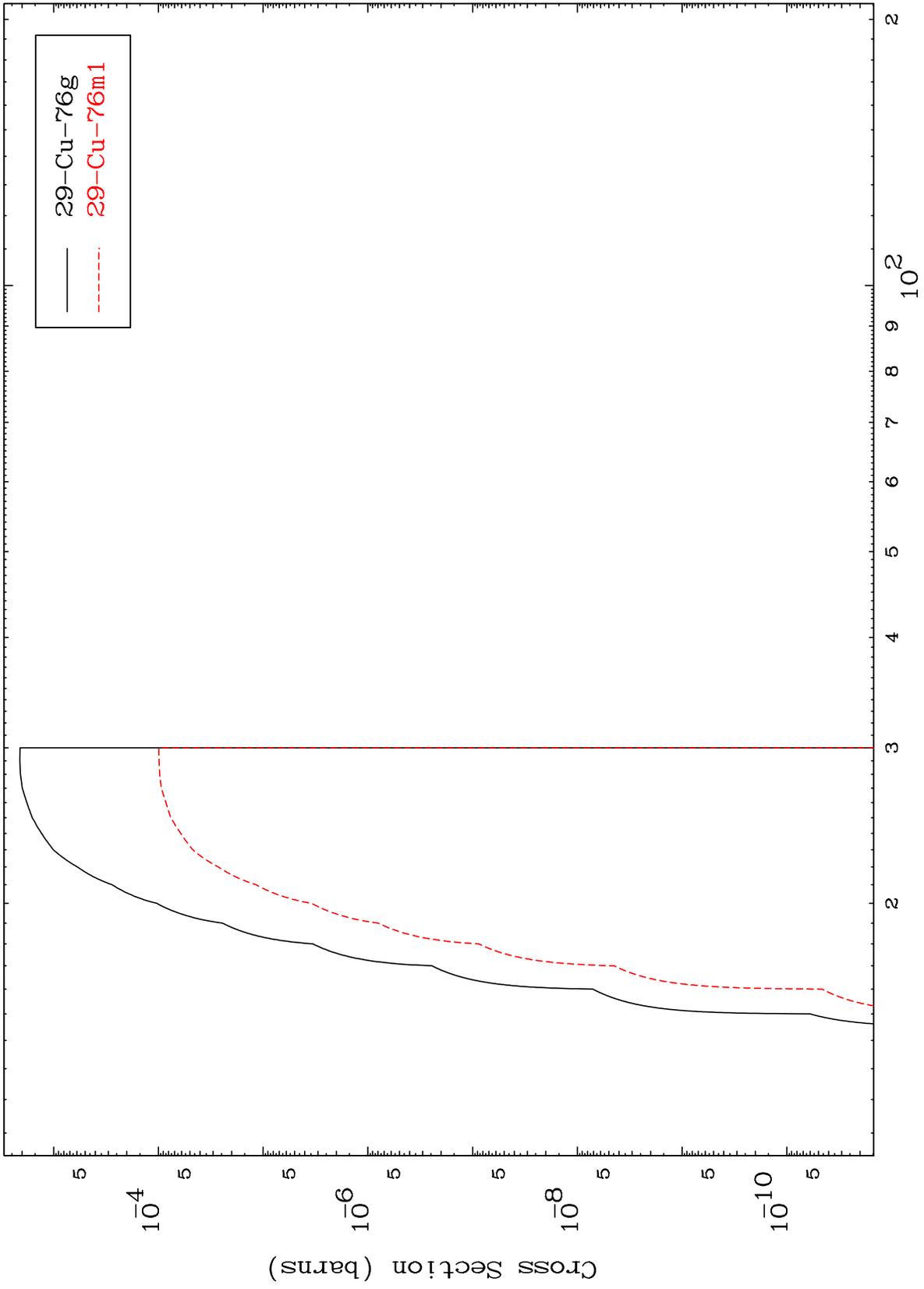


MAT 3158

(n,n') α

31-Ga-80

Radionuclide Production Cross Section



116

Incident Energy (MeV)

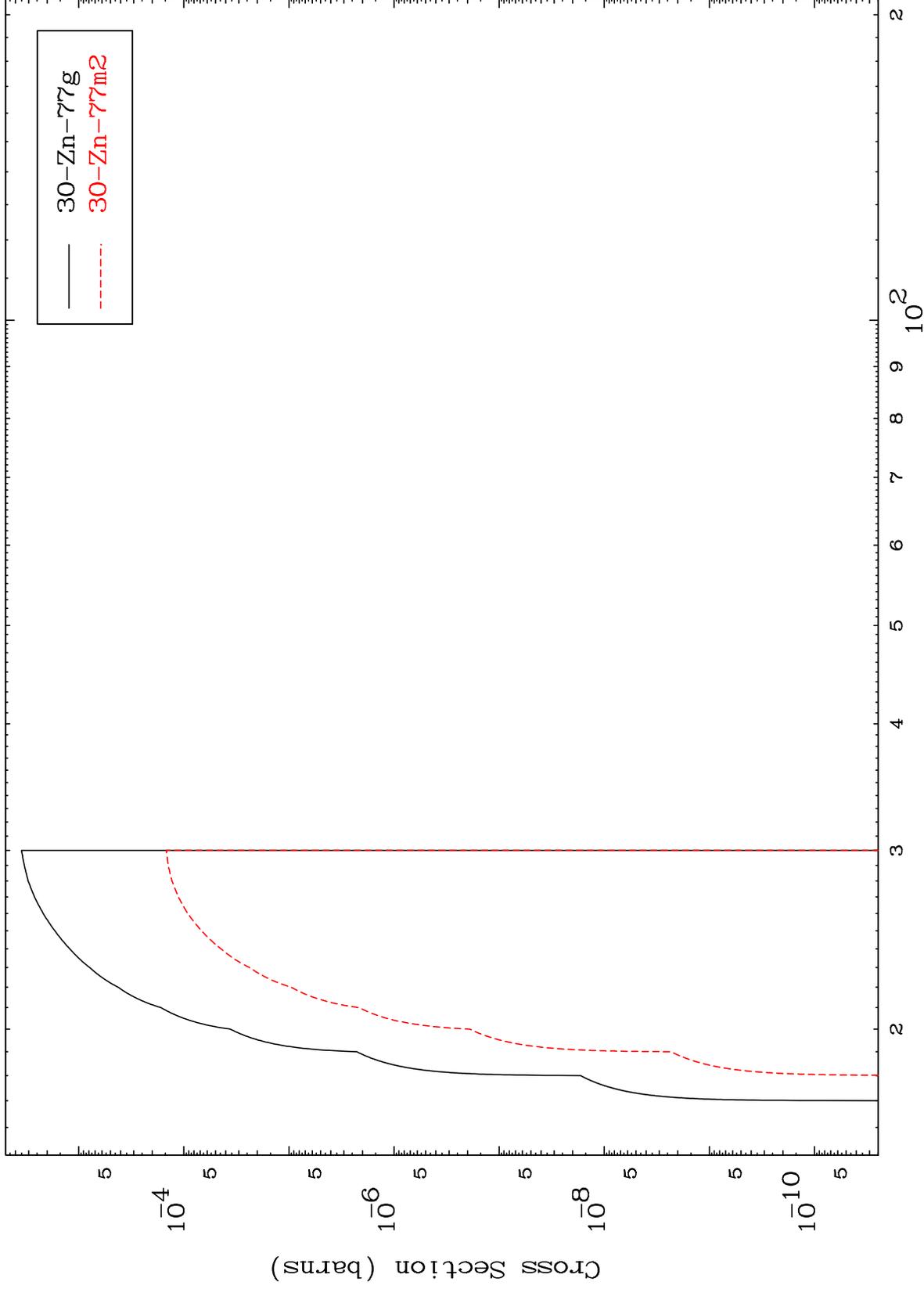
31-Ga-80

MAT 3158

(n,n') t

31-Ga-80

Radionuclide Production Cross Section



117

Incident Energy (MeV)

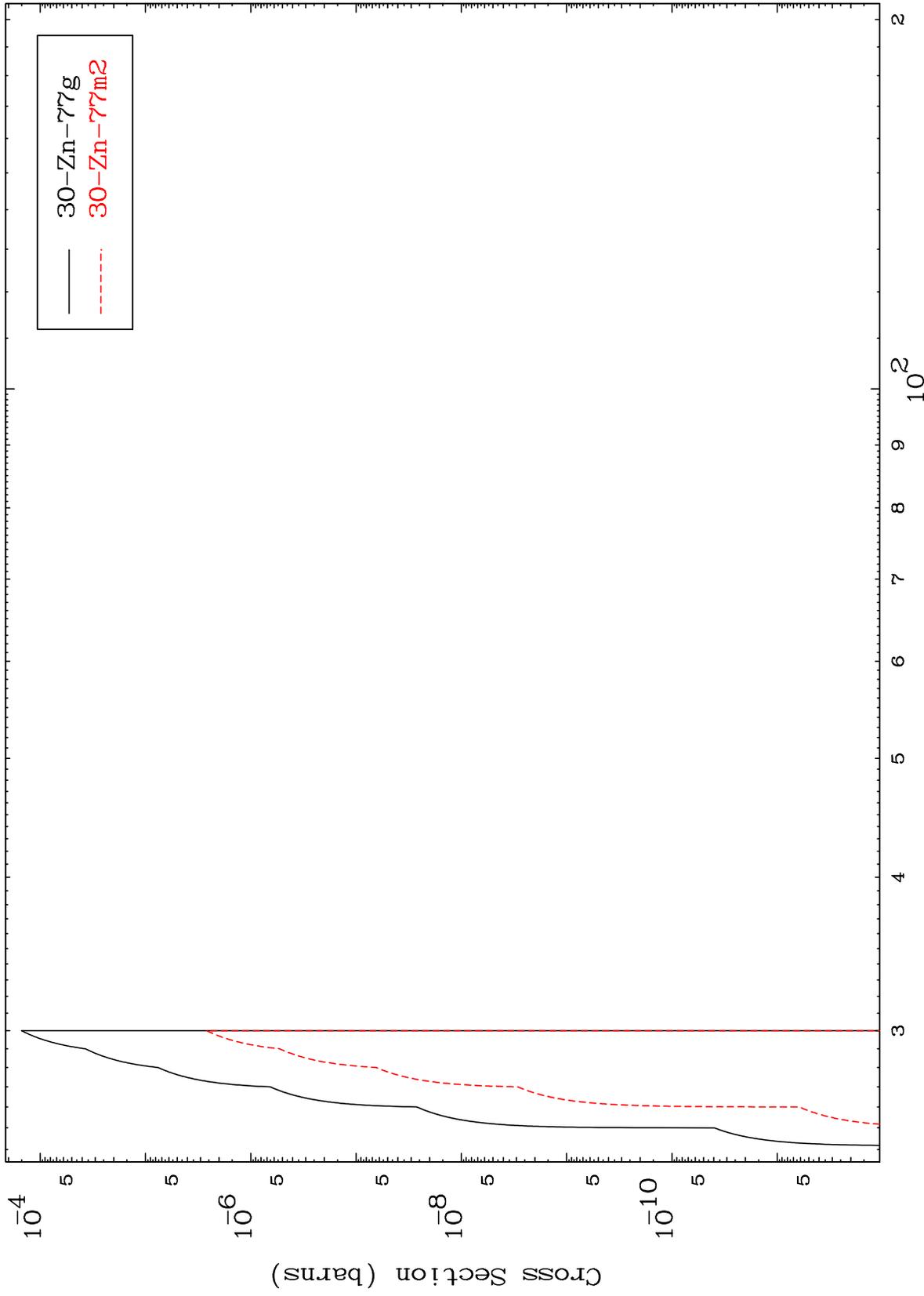
31-Ga-80

MAT 3158

(n,3n) p

31-Ga-80

Radionuclide Production Cross Section



118

Incident Energy (MeV)

31-Ga-80