

Program EVALPLOT
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.

Tele: 925-443-1911

E.Mail:redcullen1@comcast.net

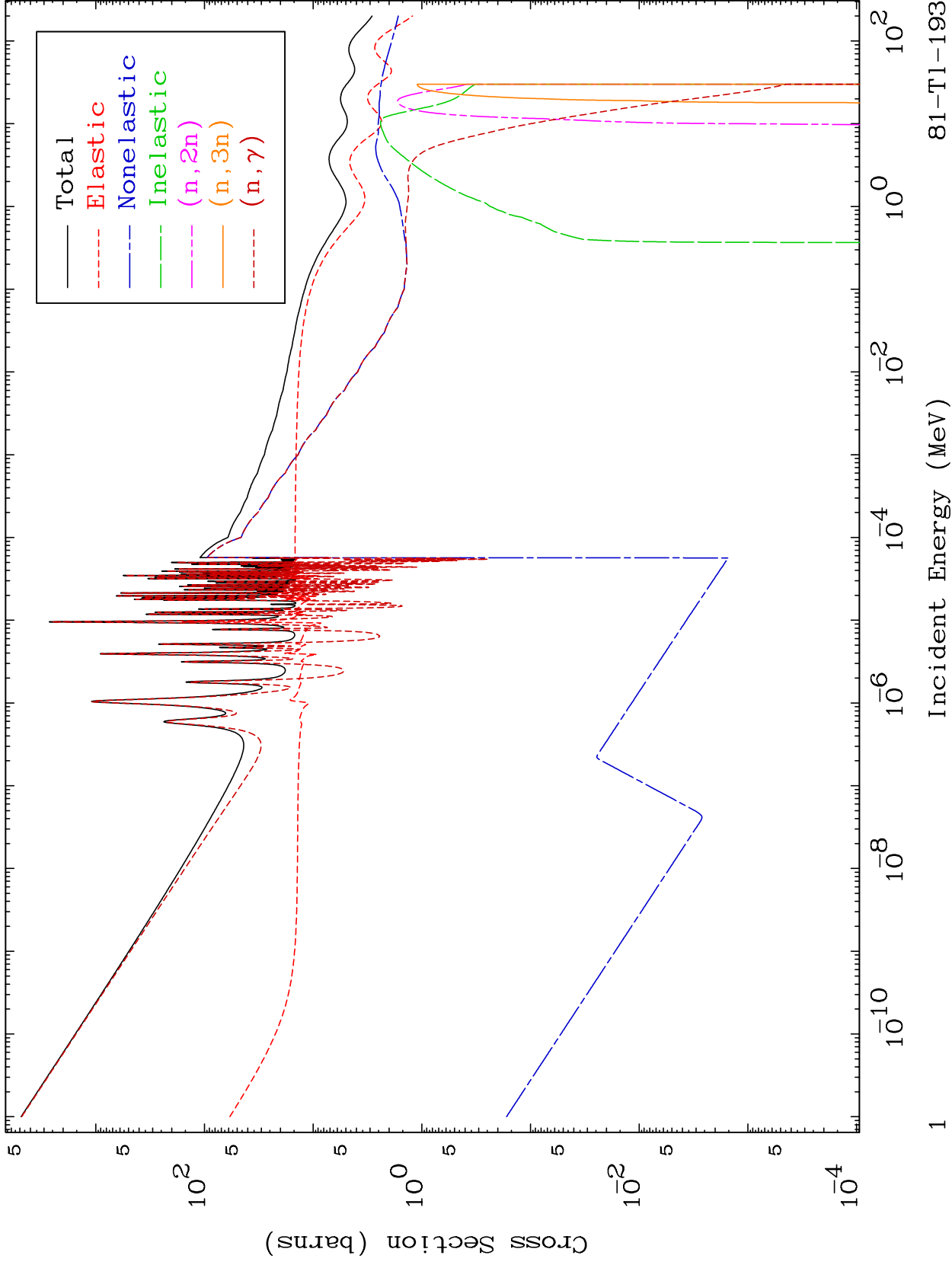
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 8095

Neutron Major
293 Kelvin Cross Sections

81-Tl-193



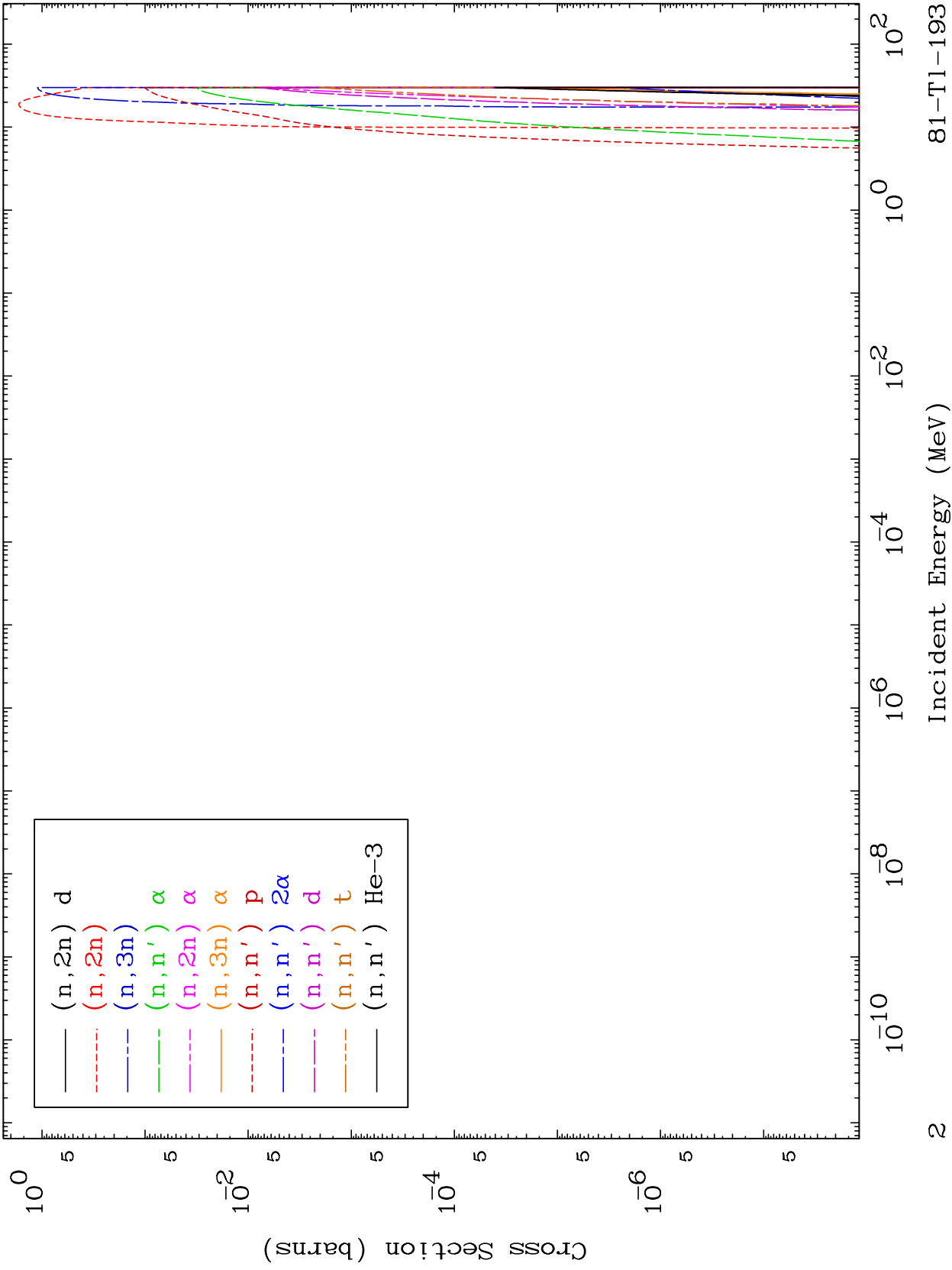
1

81-Tl-193

MAT 8095

Neutron Absorption
293 Kelvin Cross Sections

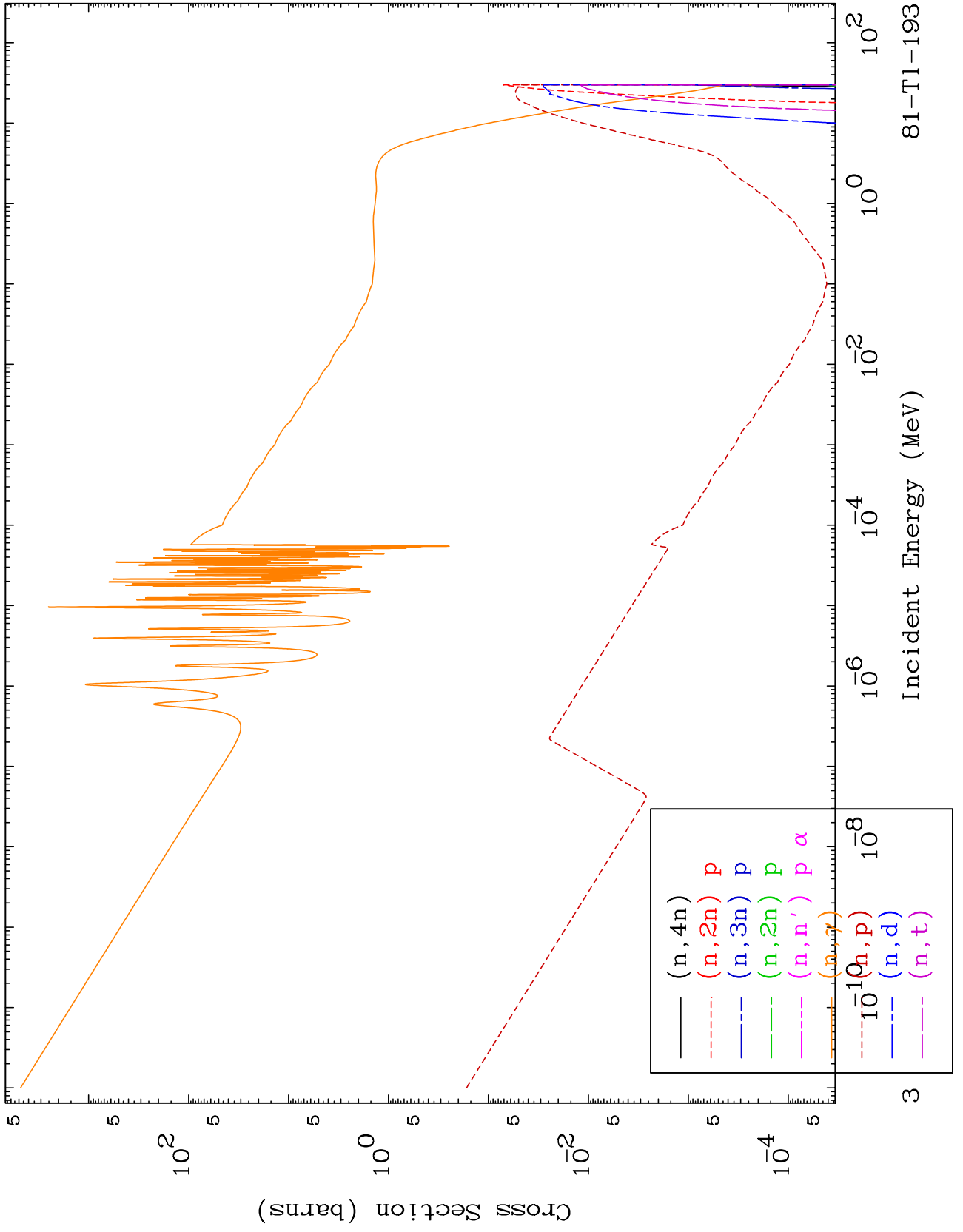
81-Tl-193



MAT 8095

Neutron Absorption
293 Kelvin Cross Sections

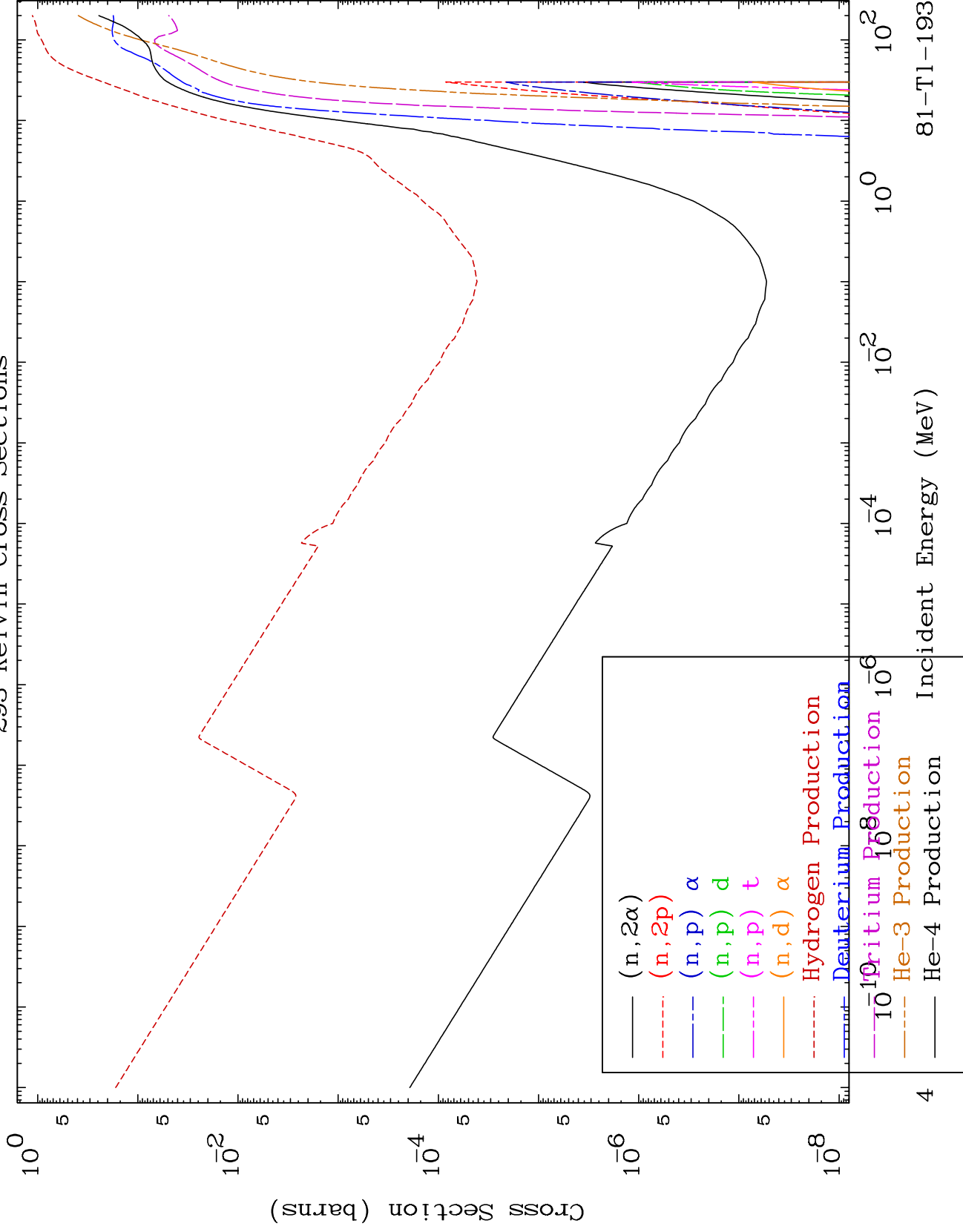
81-Tl-193



MAT 8095

Neutron Absorption
293 Kelvin Cross Sections

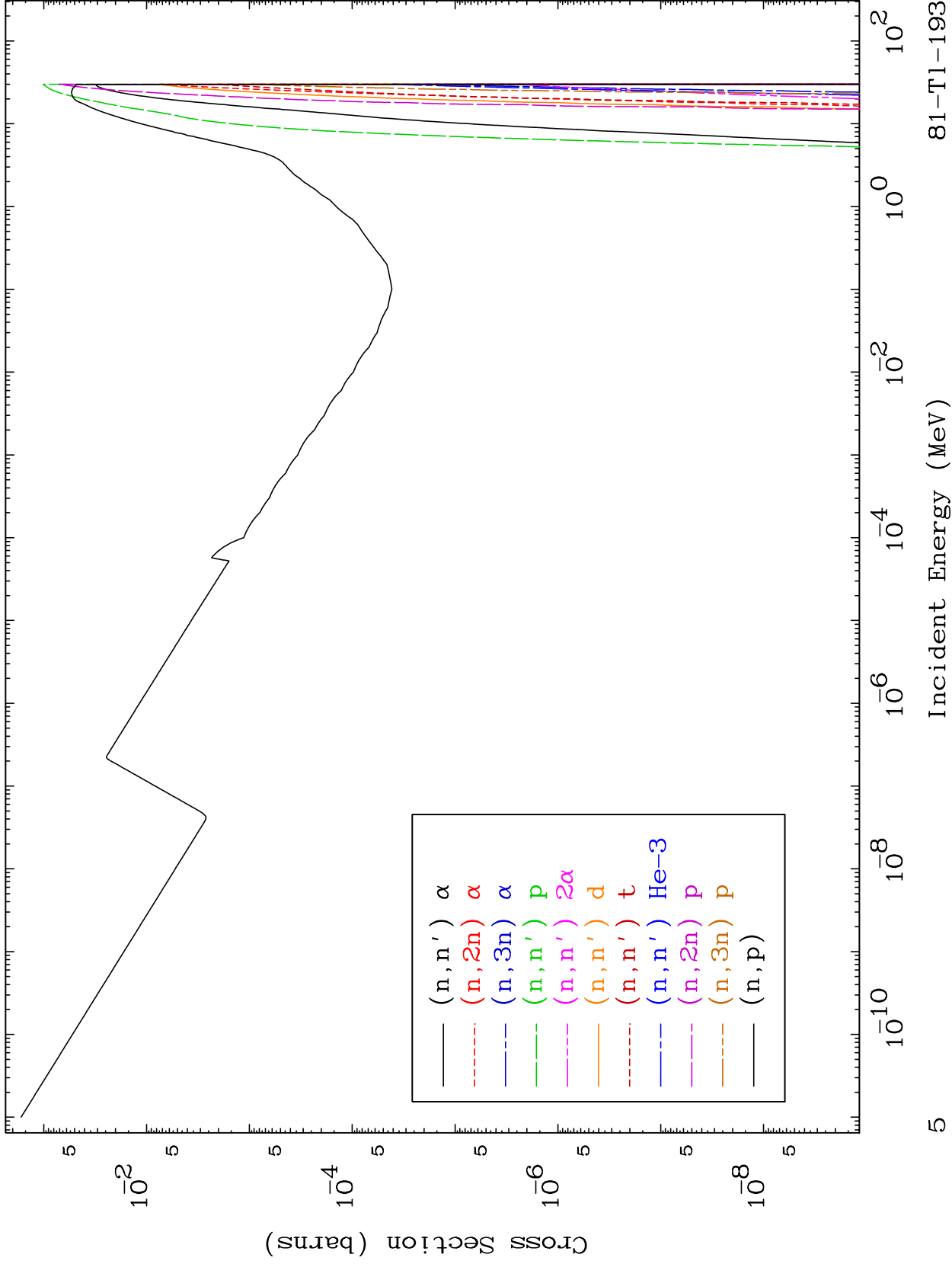
81-Tl-193



MAT 8095

Charged Particle
293 Kelvin Cross Sections

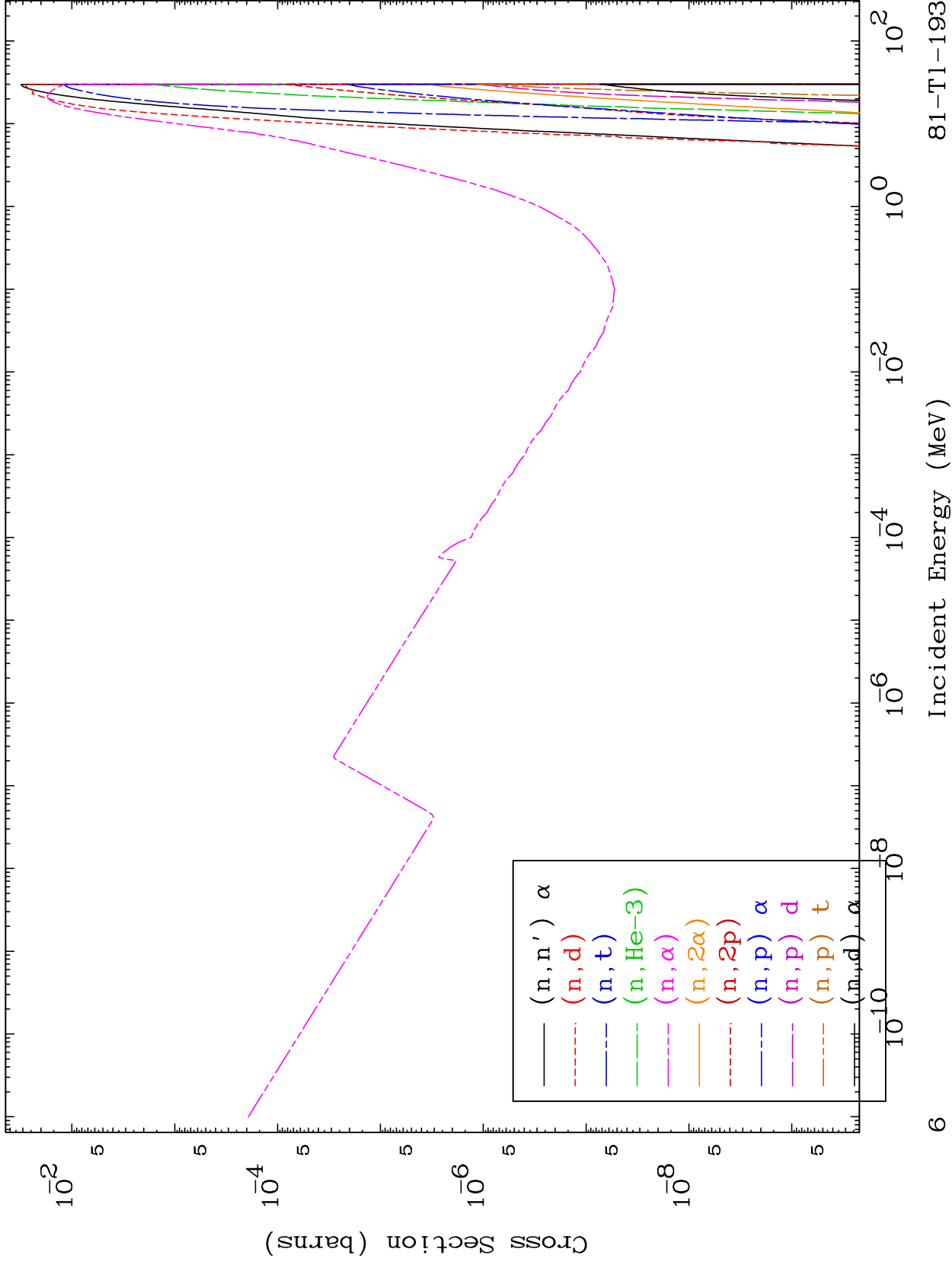
81-Tl-193



MAT 8095

Charged Particle
293 Kelvin Cross Sections

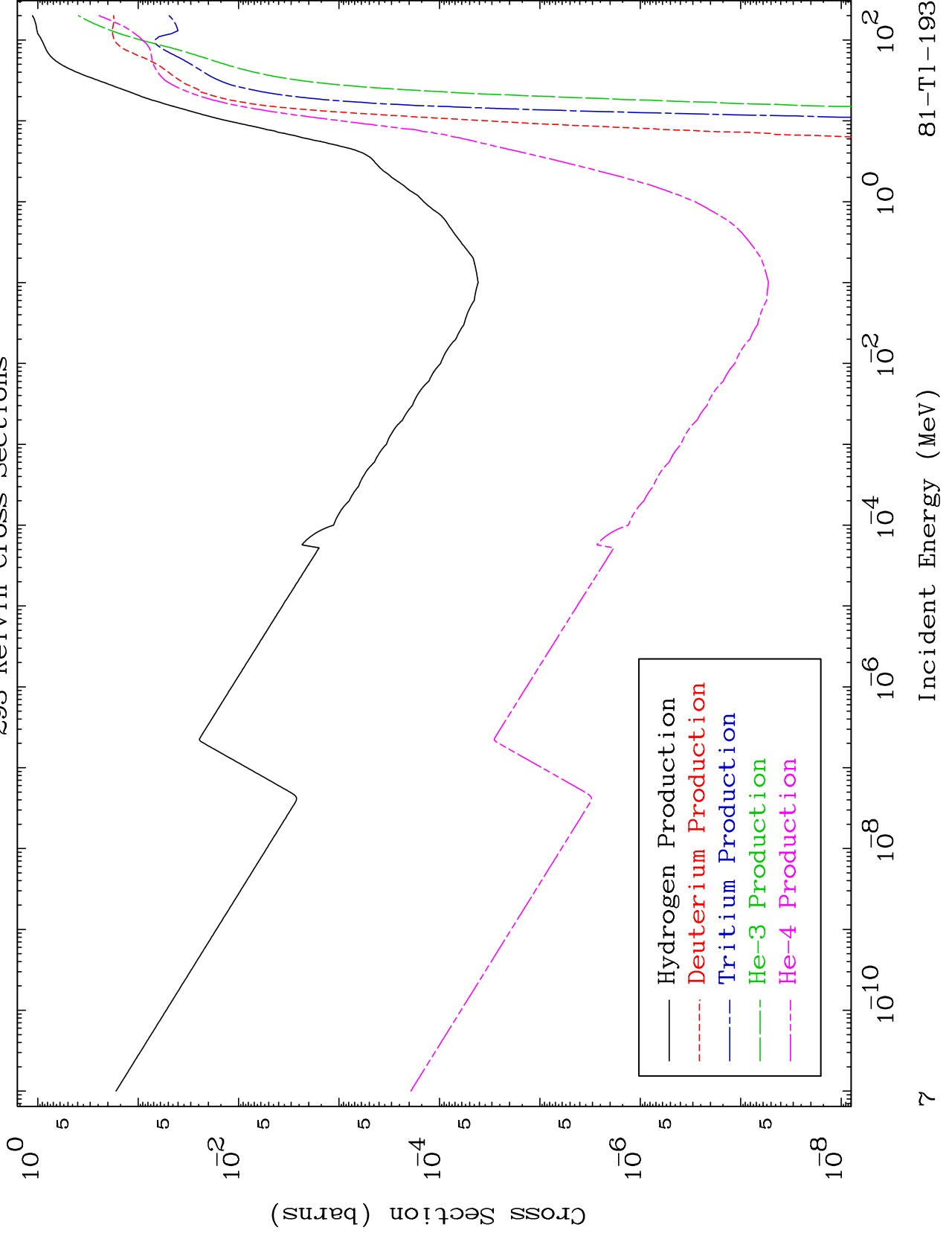
81-Tl-193



MAT 8095

Particle Production
293 Kelvin Cross Sections

81-Tl-193

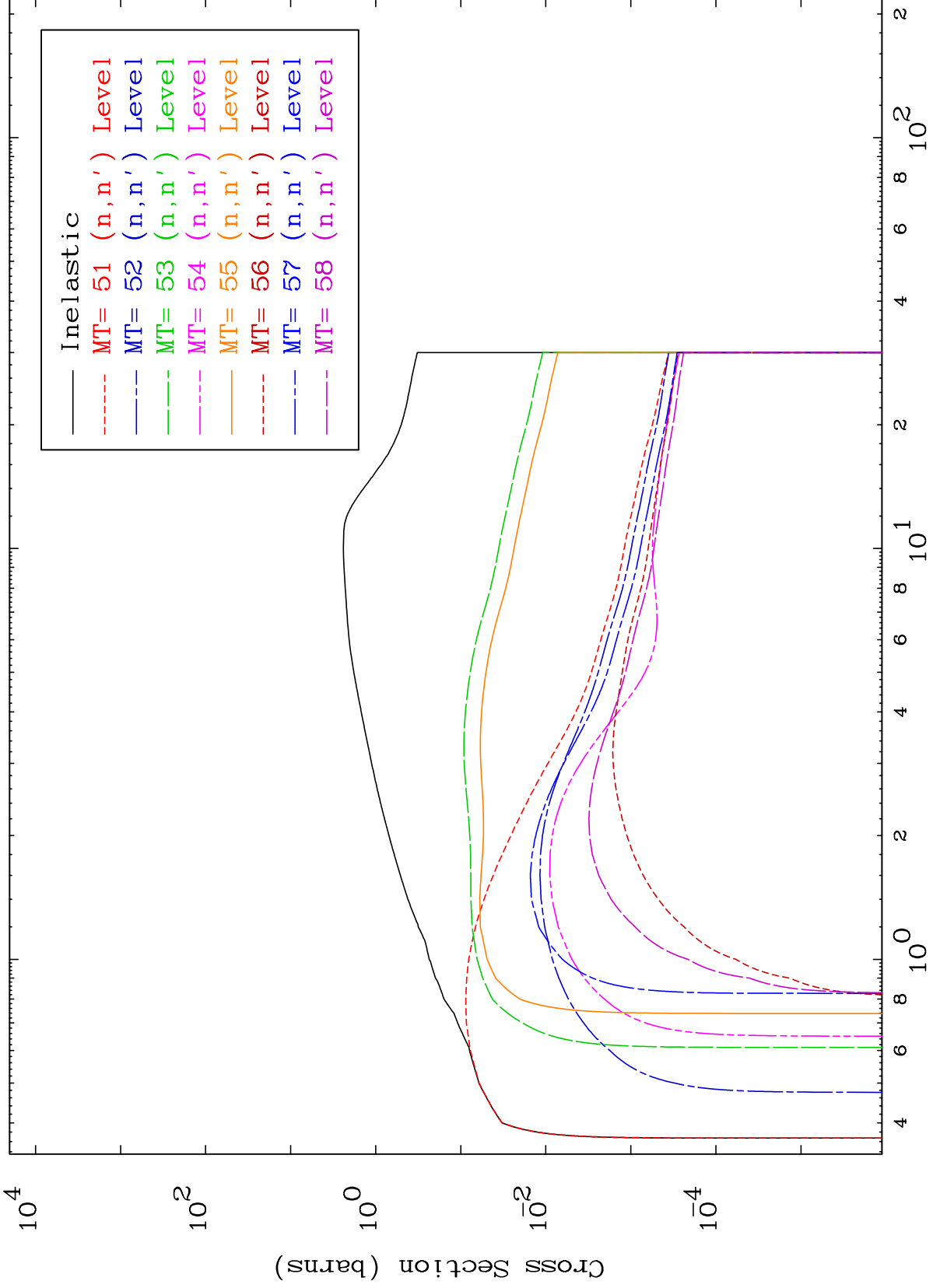


MAT 8095

(n,n') Levels

81-Tl-193

293 Kelvin Cross Sections



8

Incident Energy (MeV)

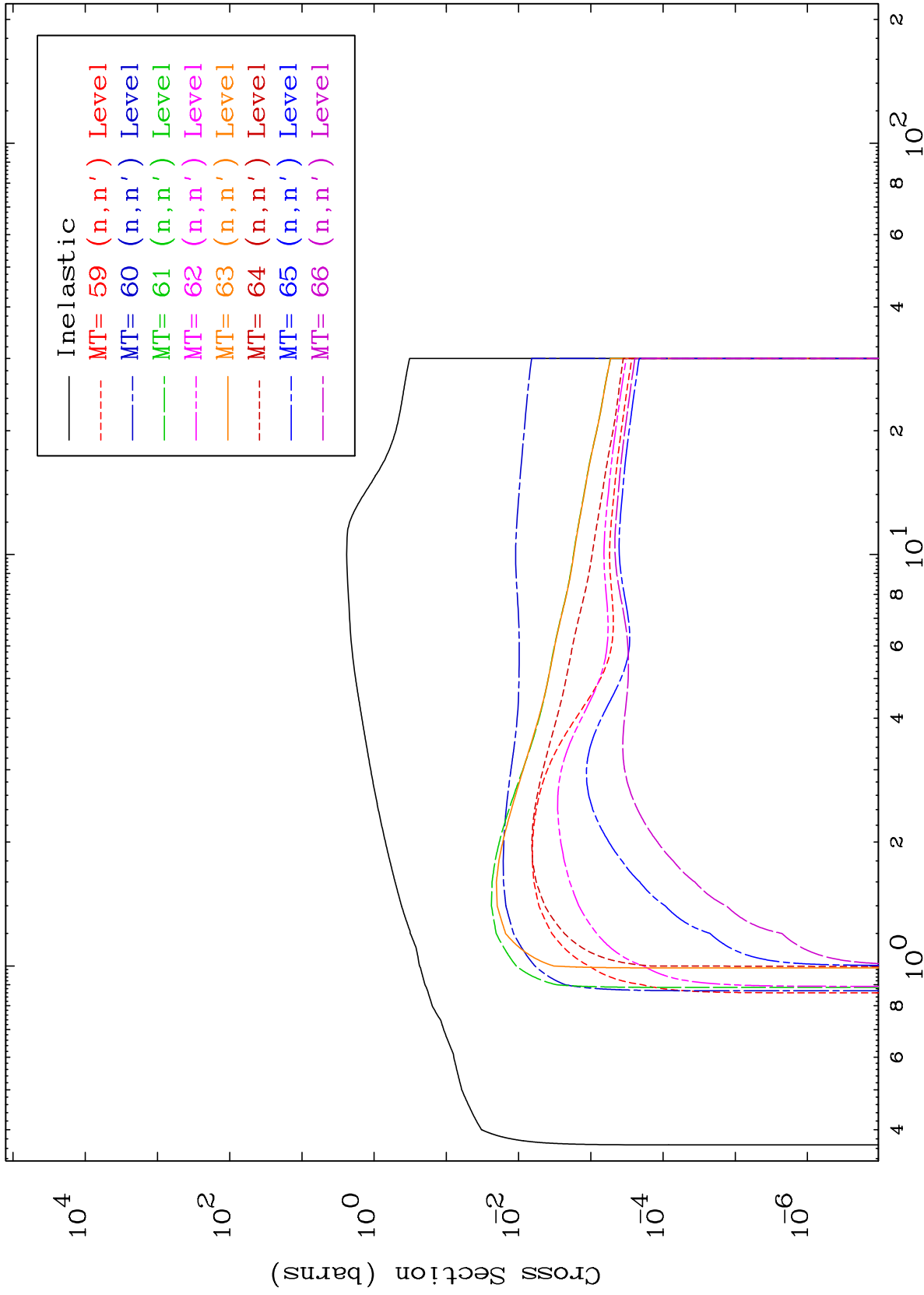
81-Tl-193

MAT 8095

(n,n') Levels

81-Tl-193

293 Kelvin Cross Sections



9

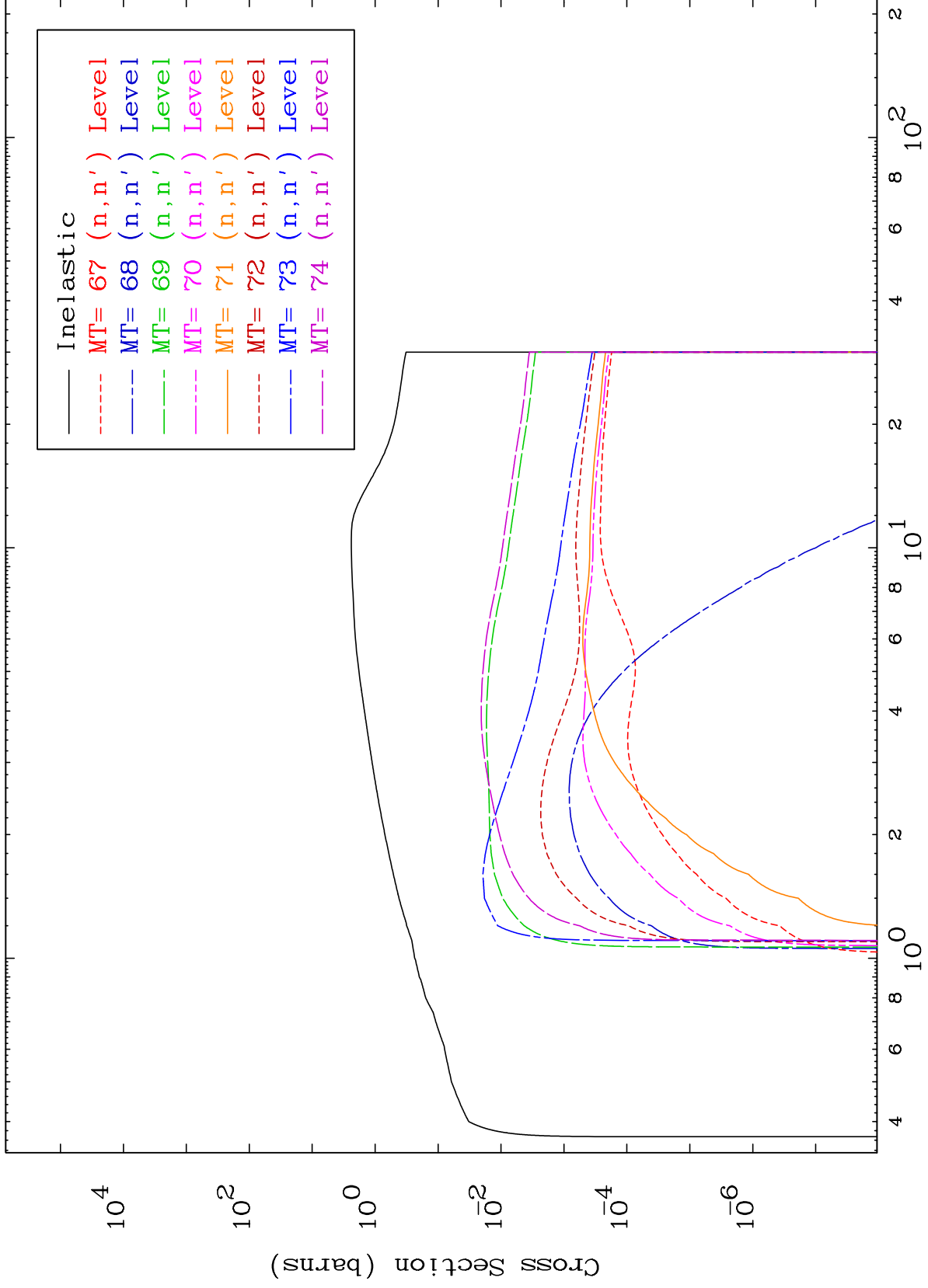
Incident Energy (MeV)

81-Tl-193

MAT 8095

(n,n') Levels
293 Kelvin Cross Sections

81-Tl-193



10

Incident Energy (MeV)

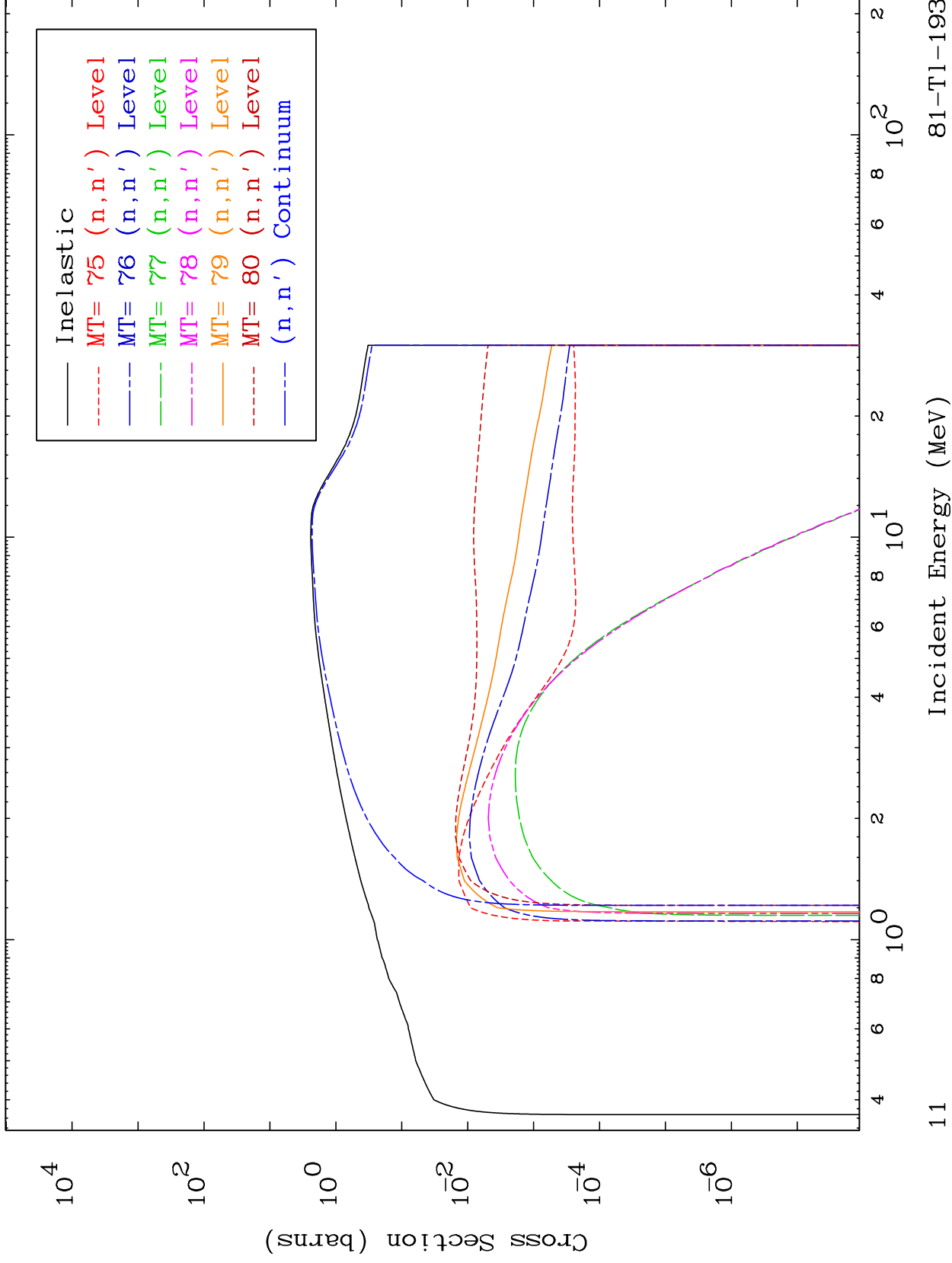
81-Tl-193

MAT 8095

(n,n') Levels

293 Kelvin Cross Sections

81-Tl-193



11

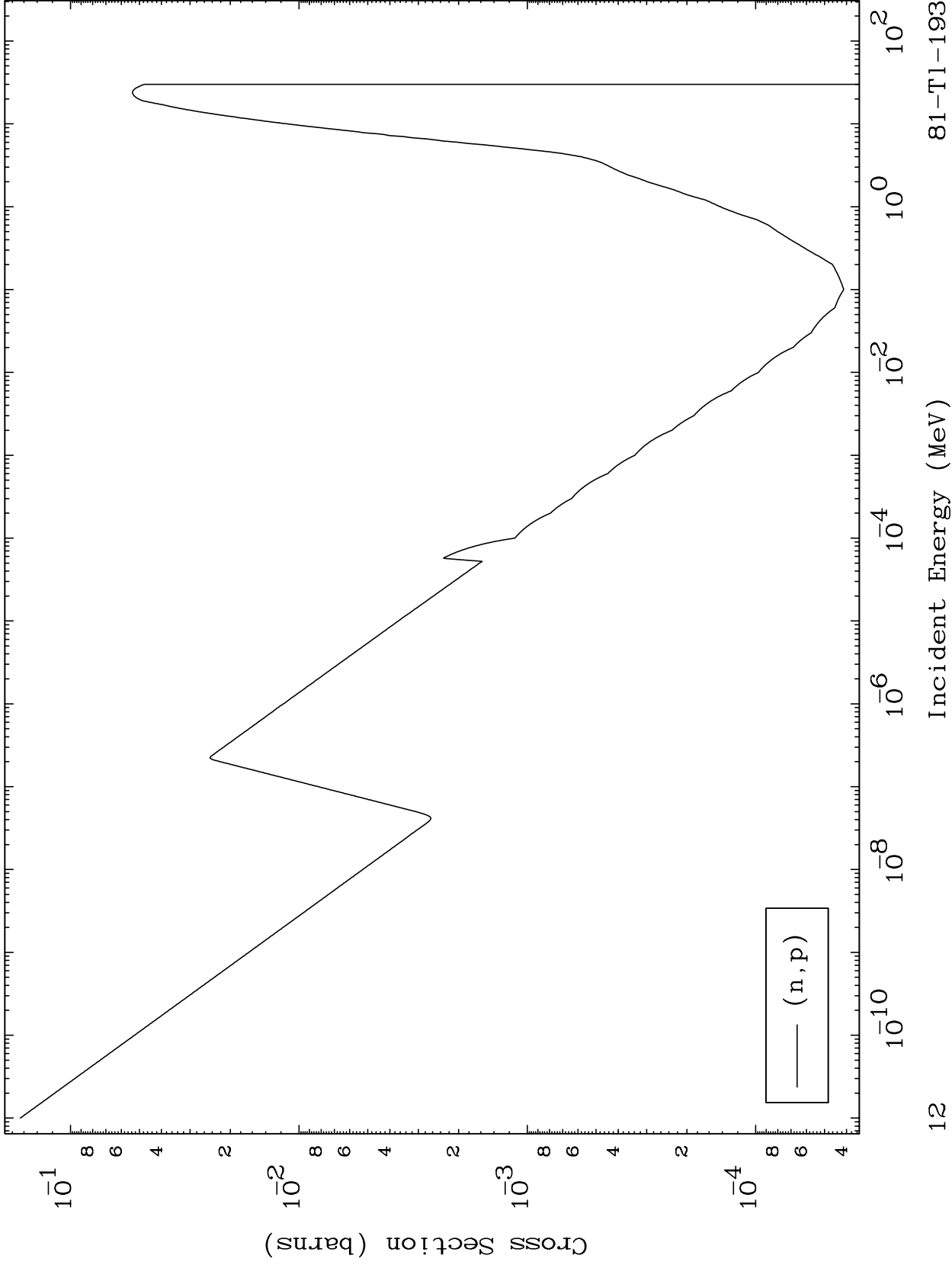
Incident Energy (MeV)

81-Tl-193

MAT 8095

(n,p) Levels
293 Kelvin Cross Sections

81-Tl-193



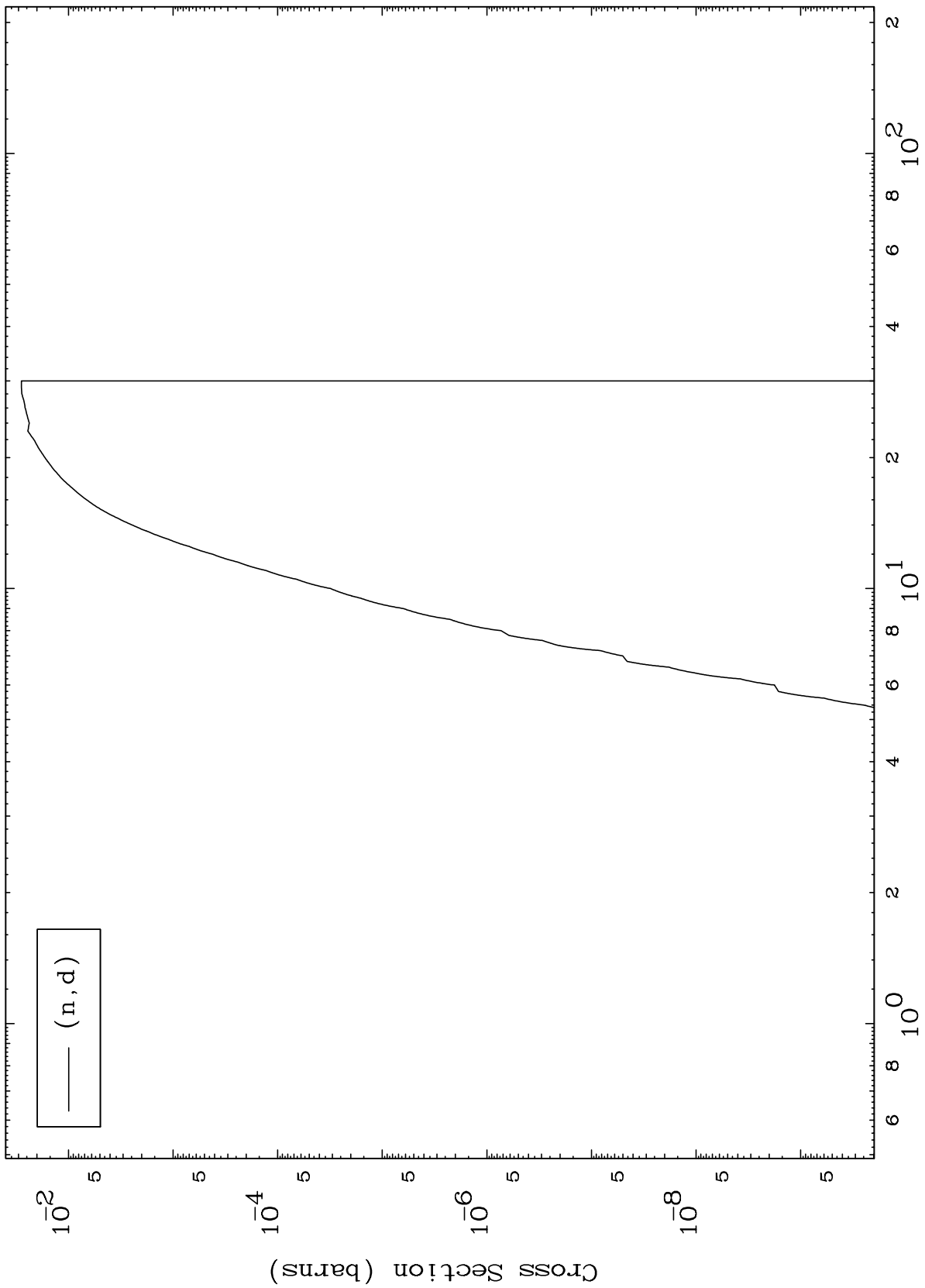
12

81-Tl-193

MAT 8095

(n,d) Levels
293 Kelvin Cross Sections

81-Tl-193



13

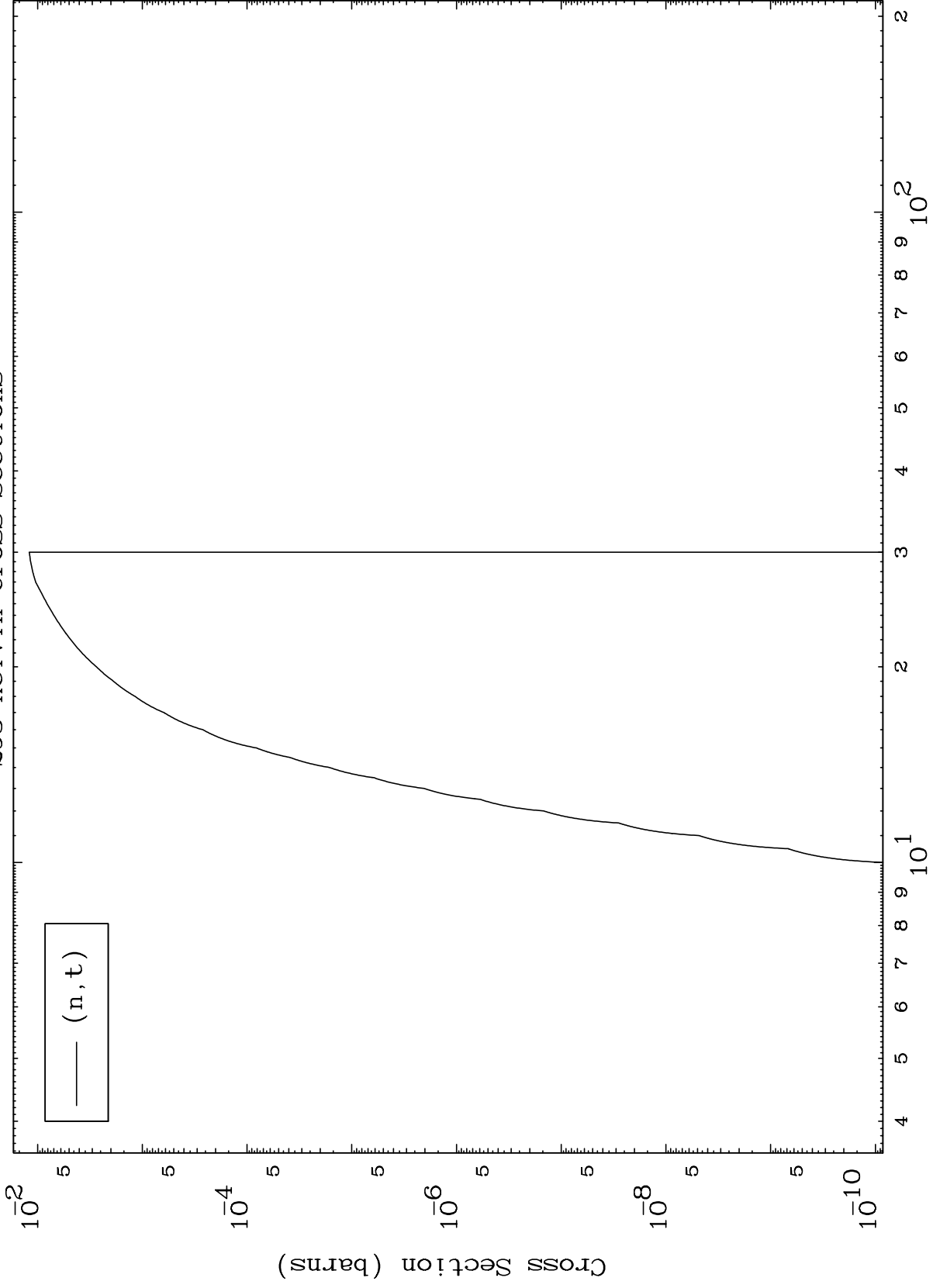
Incident Energy (MeV)

81-Tl-193

MAT 8095

(n,t) Levels
293 Kelvin Cross Sections

81-Tl-193



14

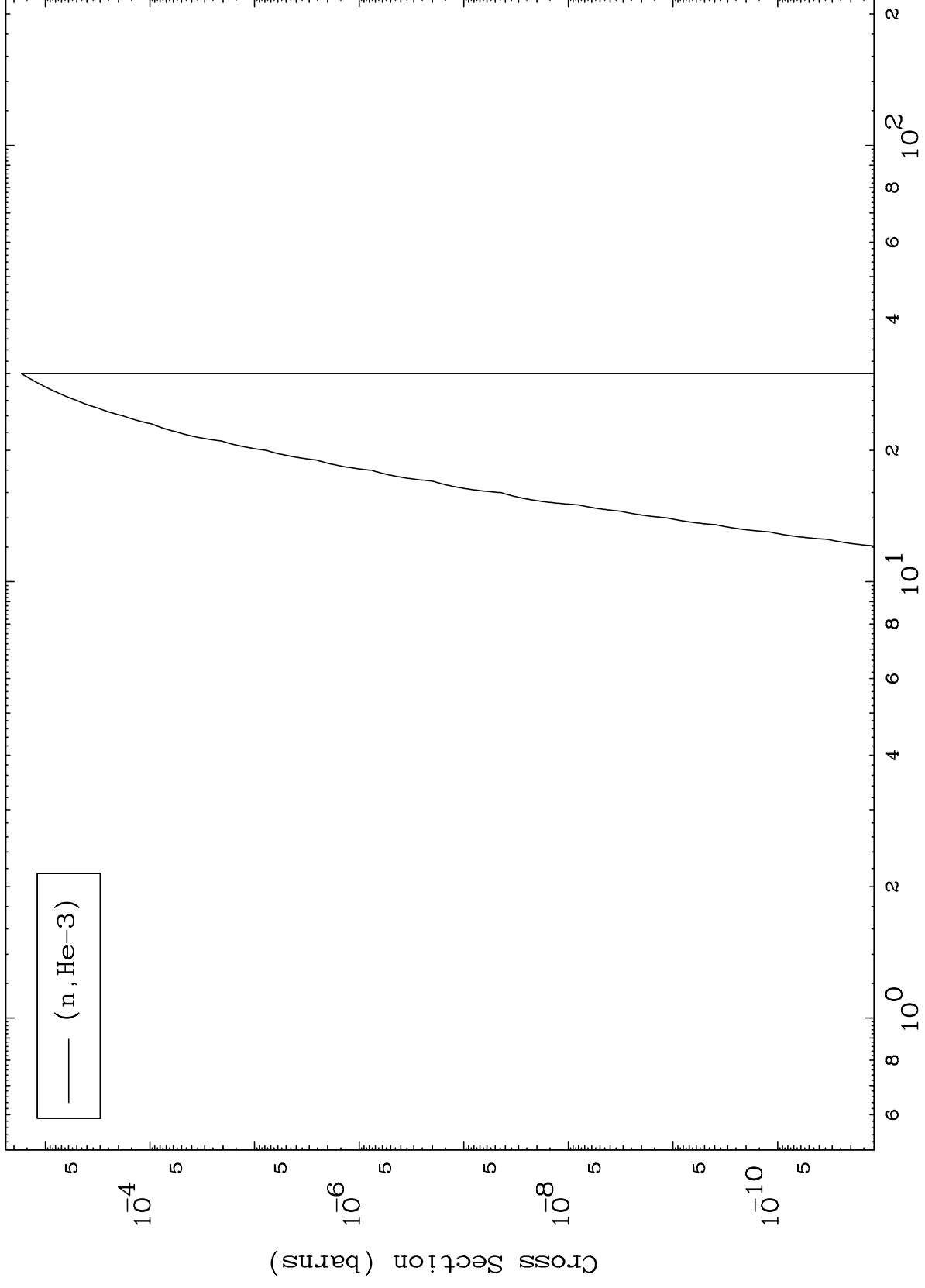
Incident Energy (MeV)

81-Tl-193

MAT 8095

(n,He3) Levels
293 Kelvin Cross Sections

81-T1-193



15

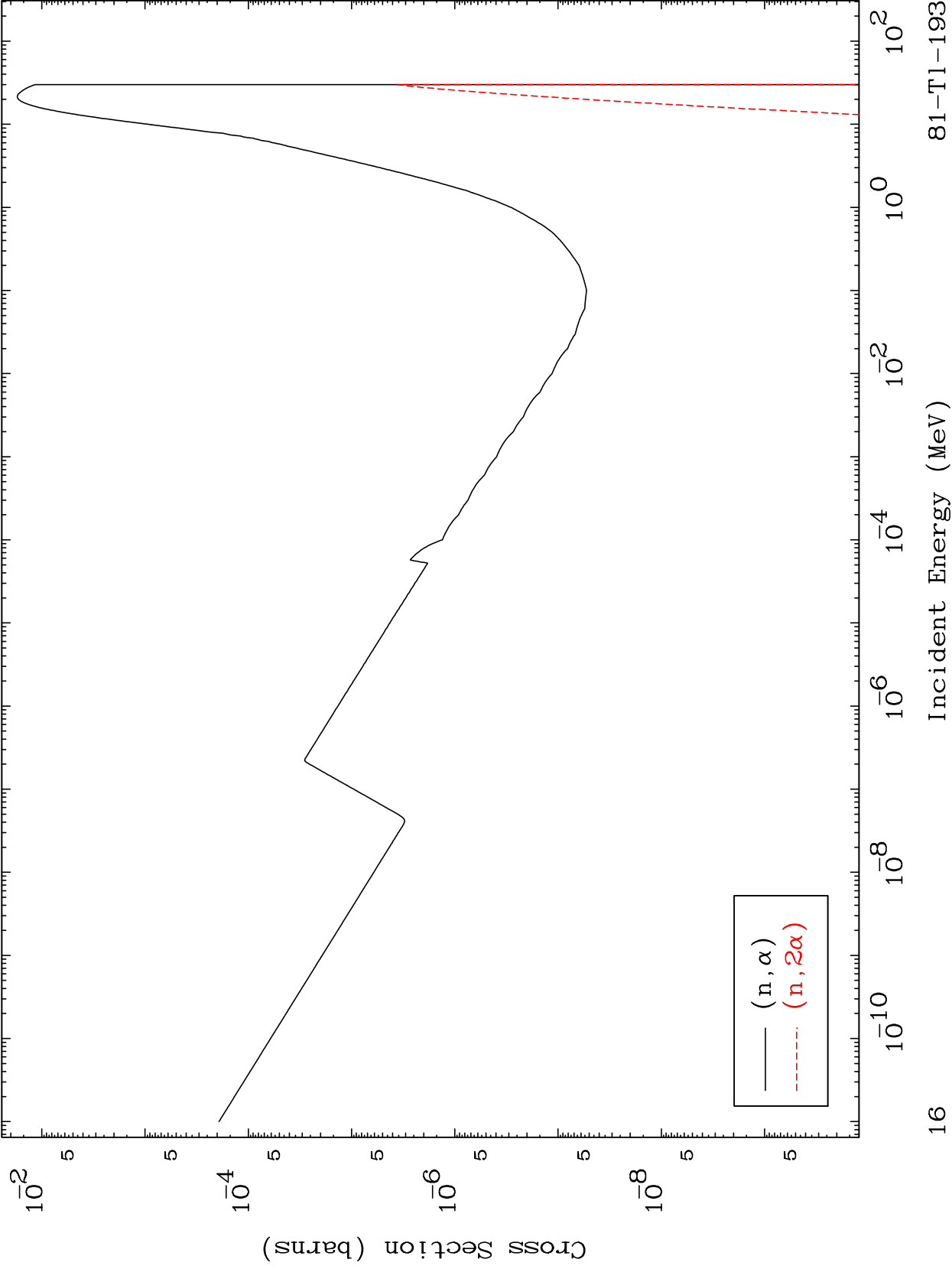
Incident Energy (MeV)

81-T1-193

MAT 8095

(n, α) Levels
293 Kelvin Cross Sections

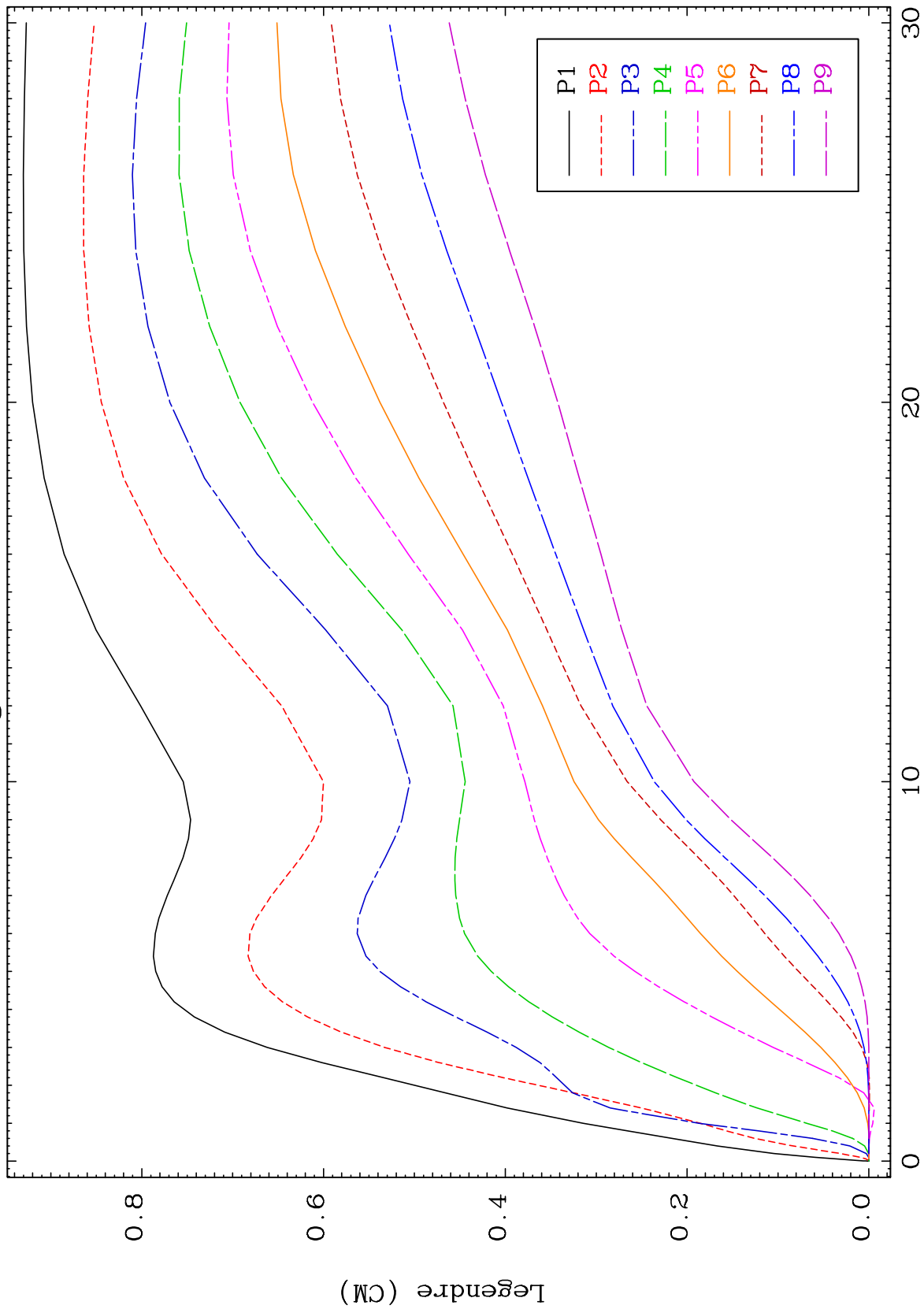
81-Tl-193



MAT 8095

Elastic Legendre Coefficients

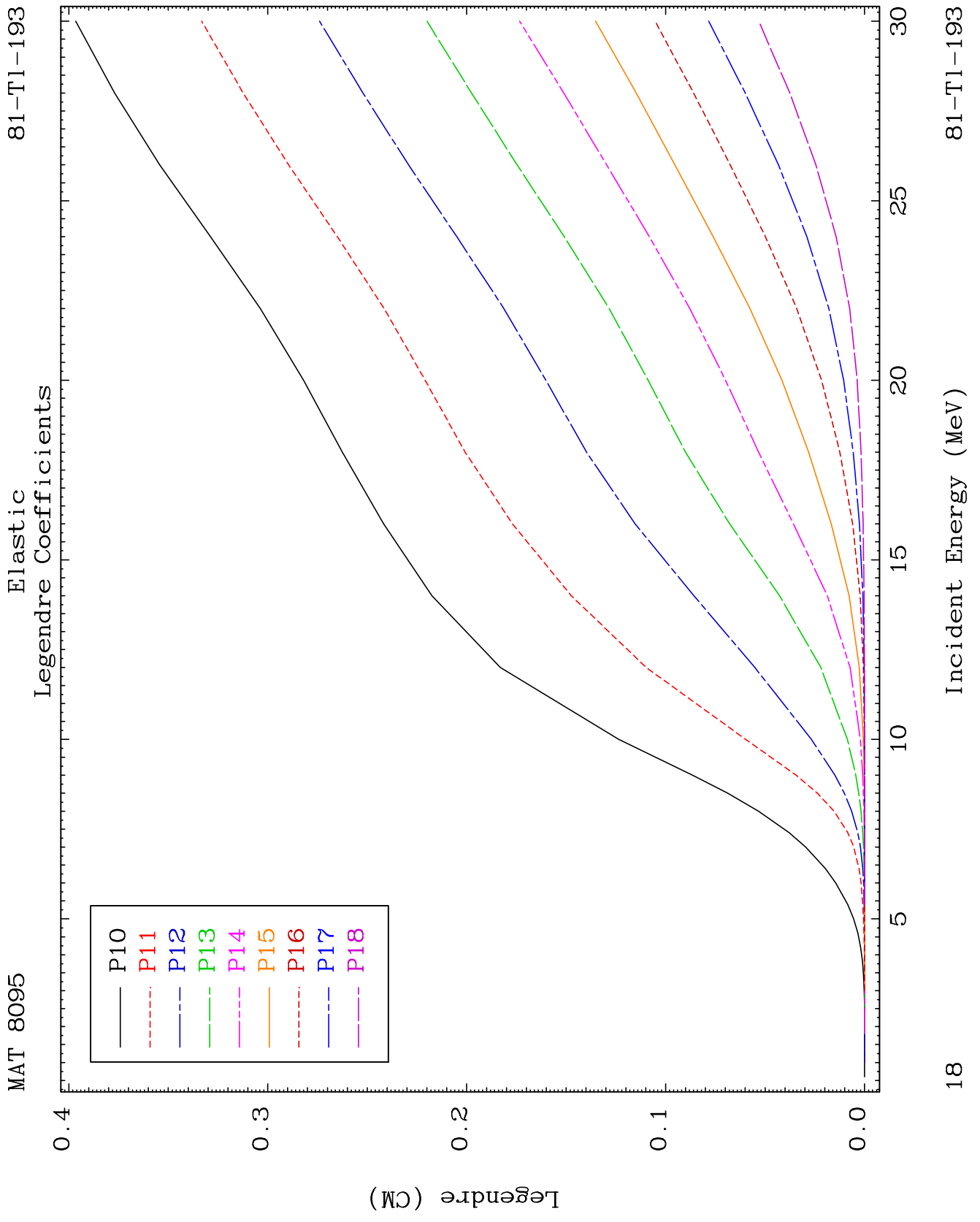
81-T1-193



17

Incident Energy (MeV)

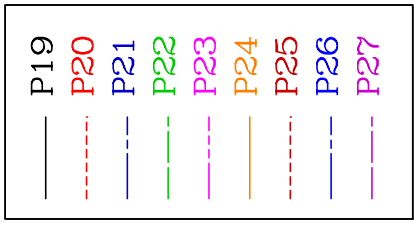
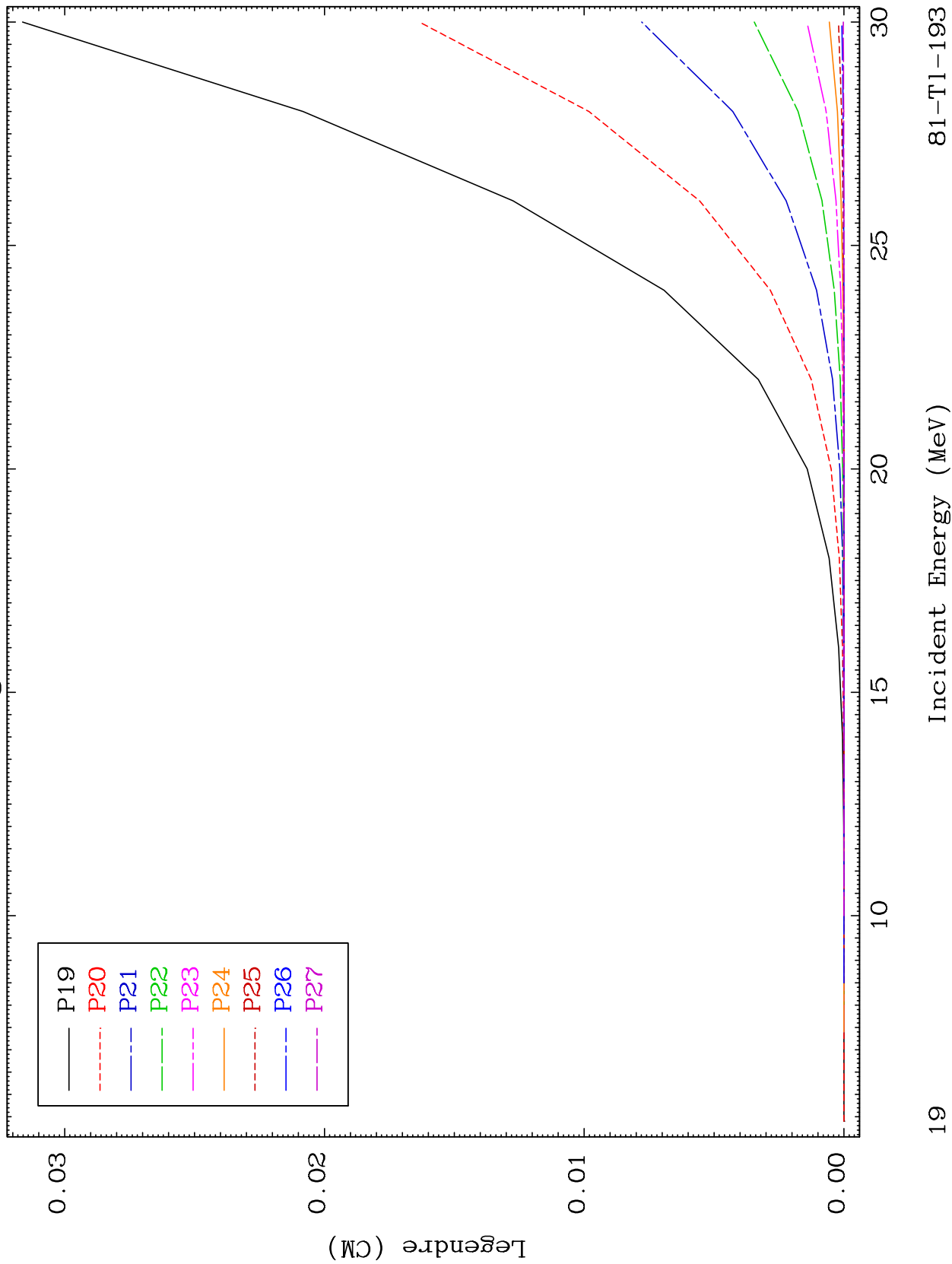
81-T1-193



MAT 8095

Elastic Legendre Coefficients

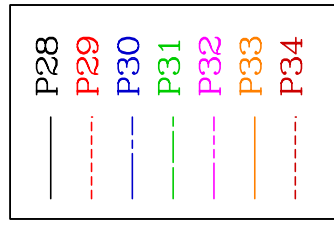
81-Tl-193



MAT 8095

Elastic
Legendre Coefficients

81-T1-193

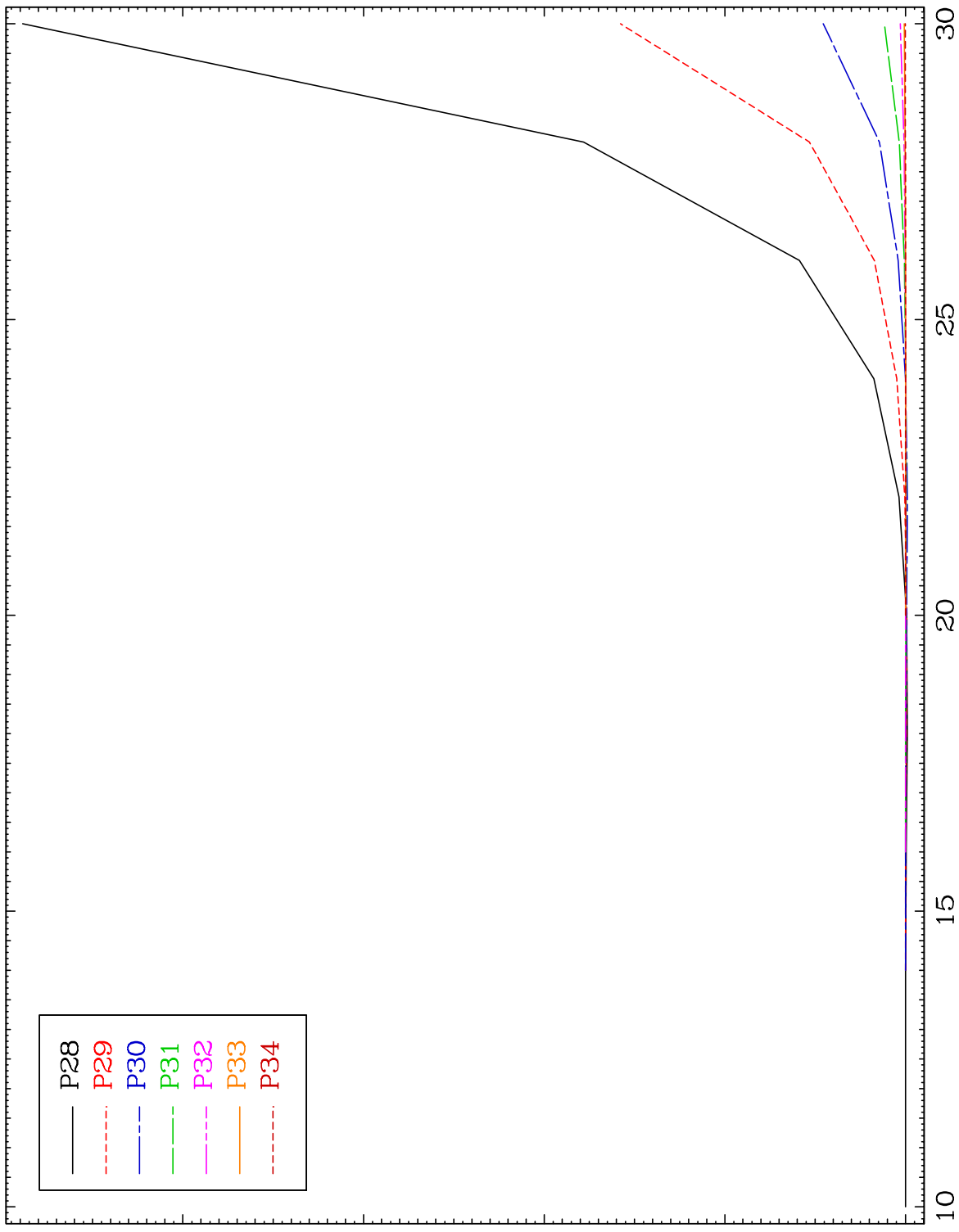


$\times 10^{-6}$

Legendre (CM)

Incident Energy (MeV)

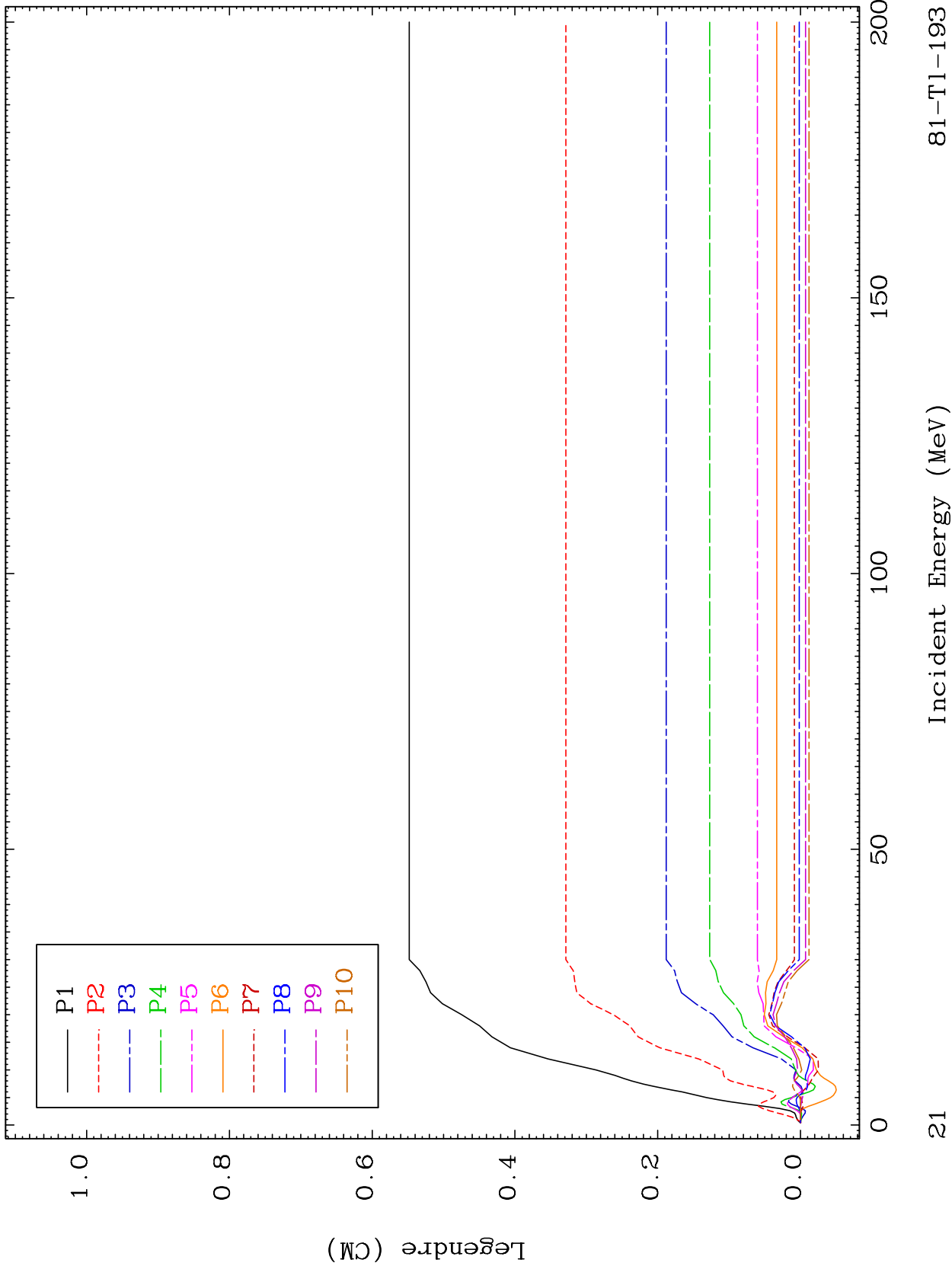
81-T1-193



MAT 8095

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

81-Tl-193



21

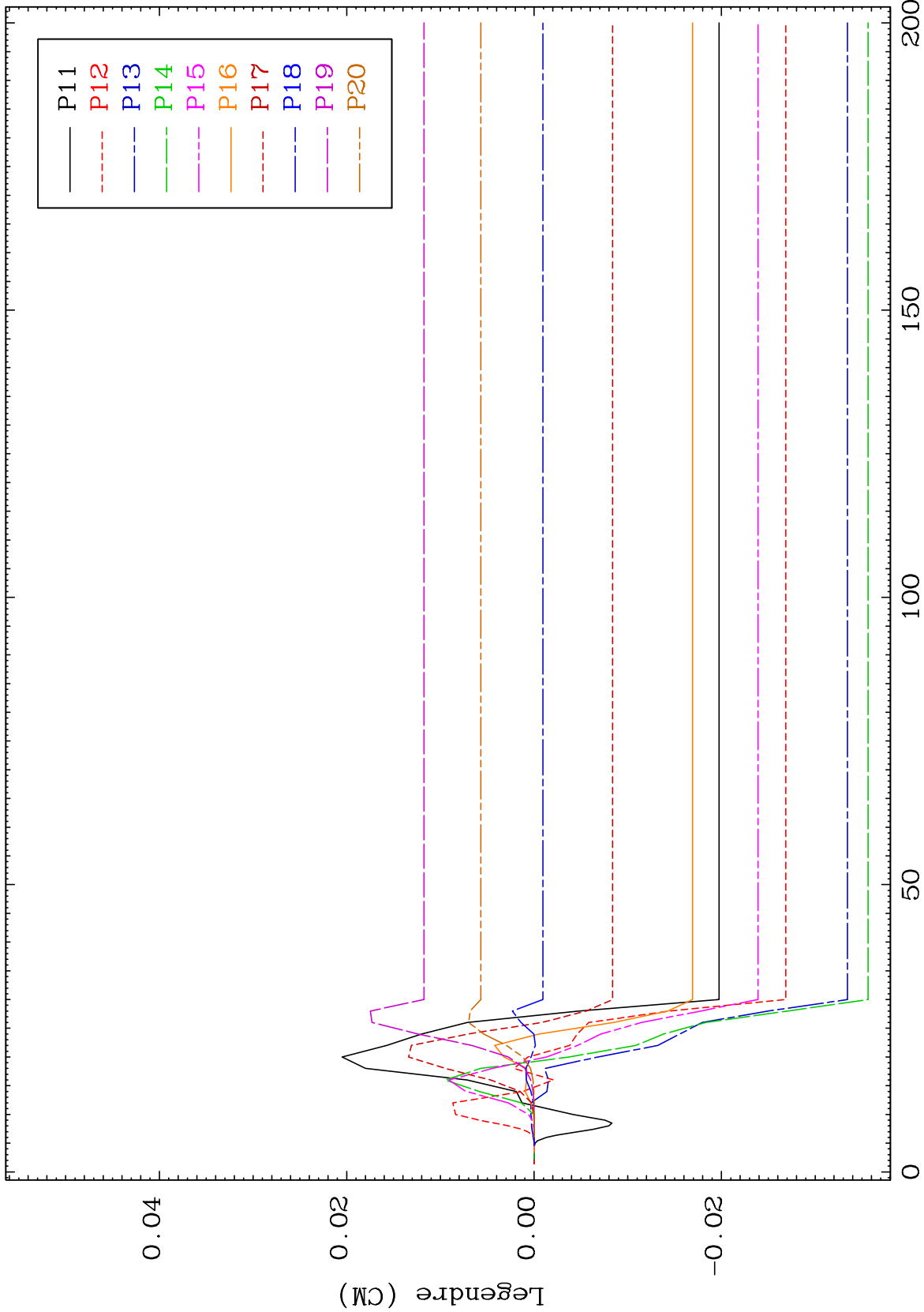
Incident Energy (MeV)

81-Tl-193

MAT 8095

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

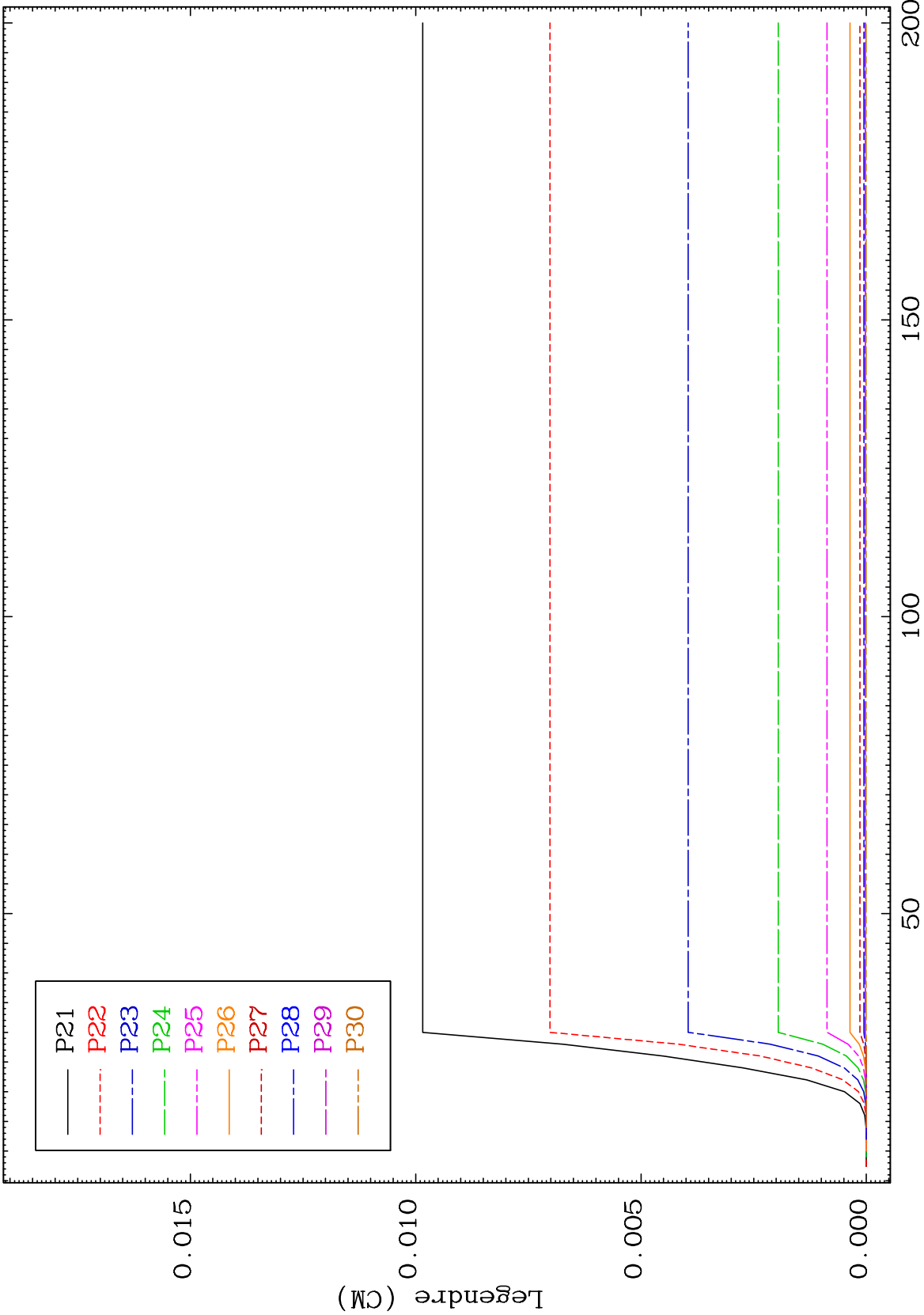
81-Tl-193



22

Incident Energy (MeV)

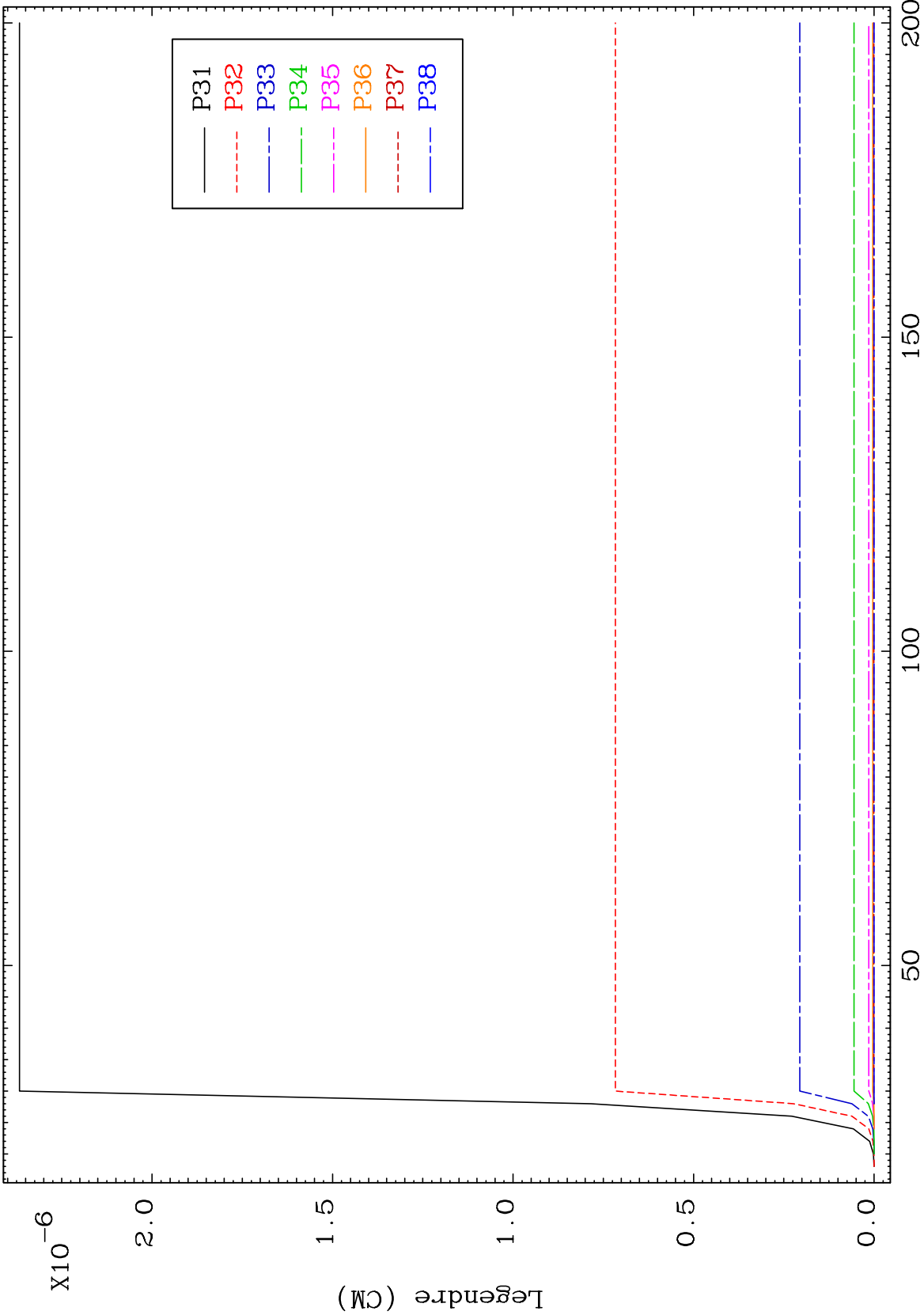
81-Tl-193



MAT 8095

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

81-Tl-193



24

Incident Energy (MeV)

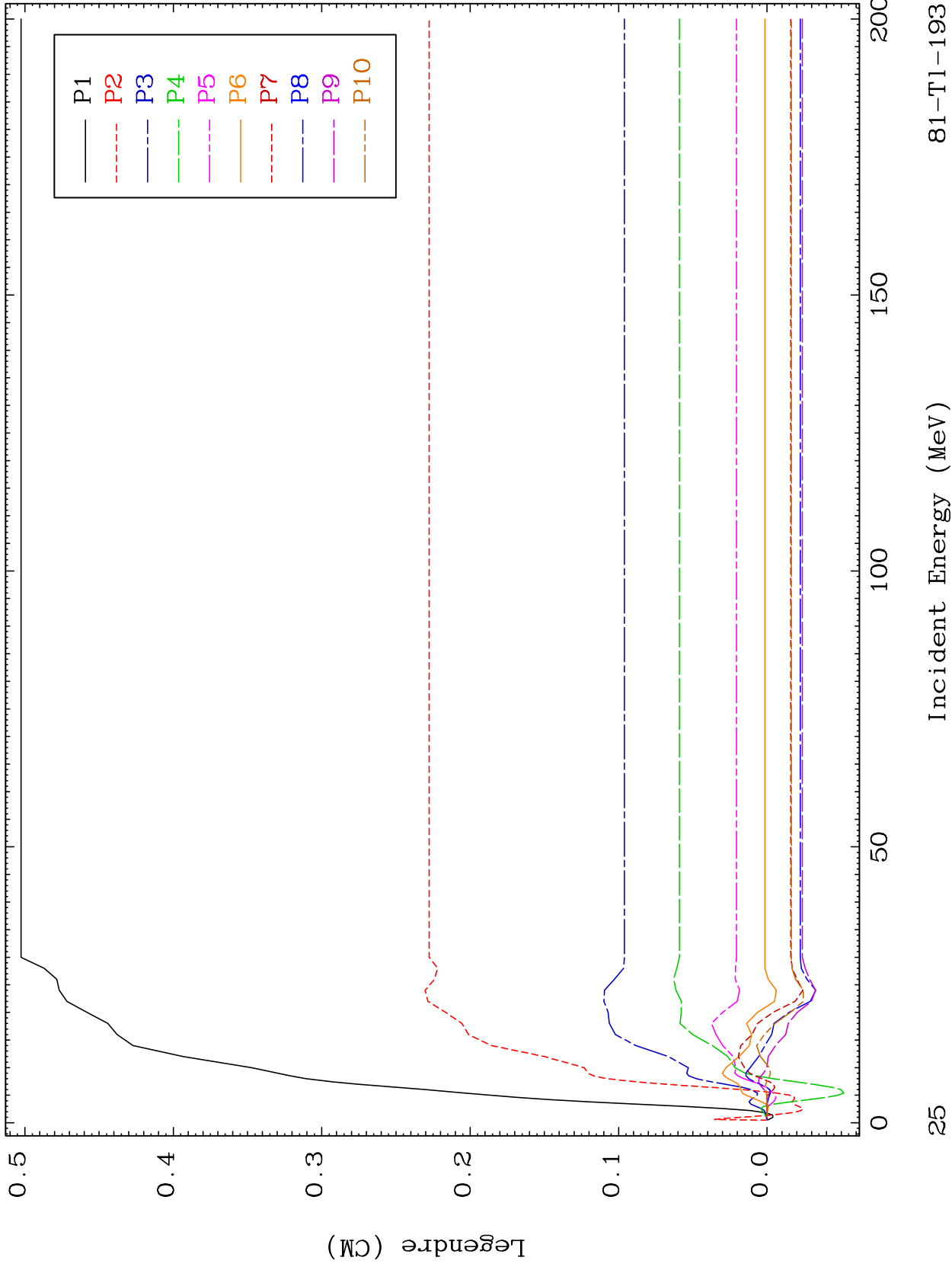
81-Tl-193

MAT 8095

MT= 52 (n,n') Level

81-Tl-193

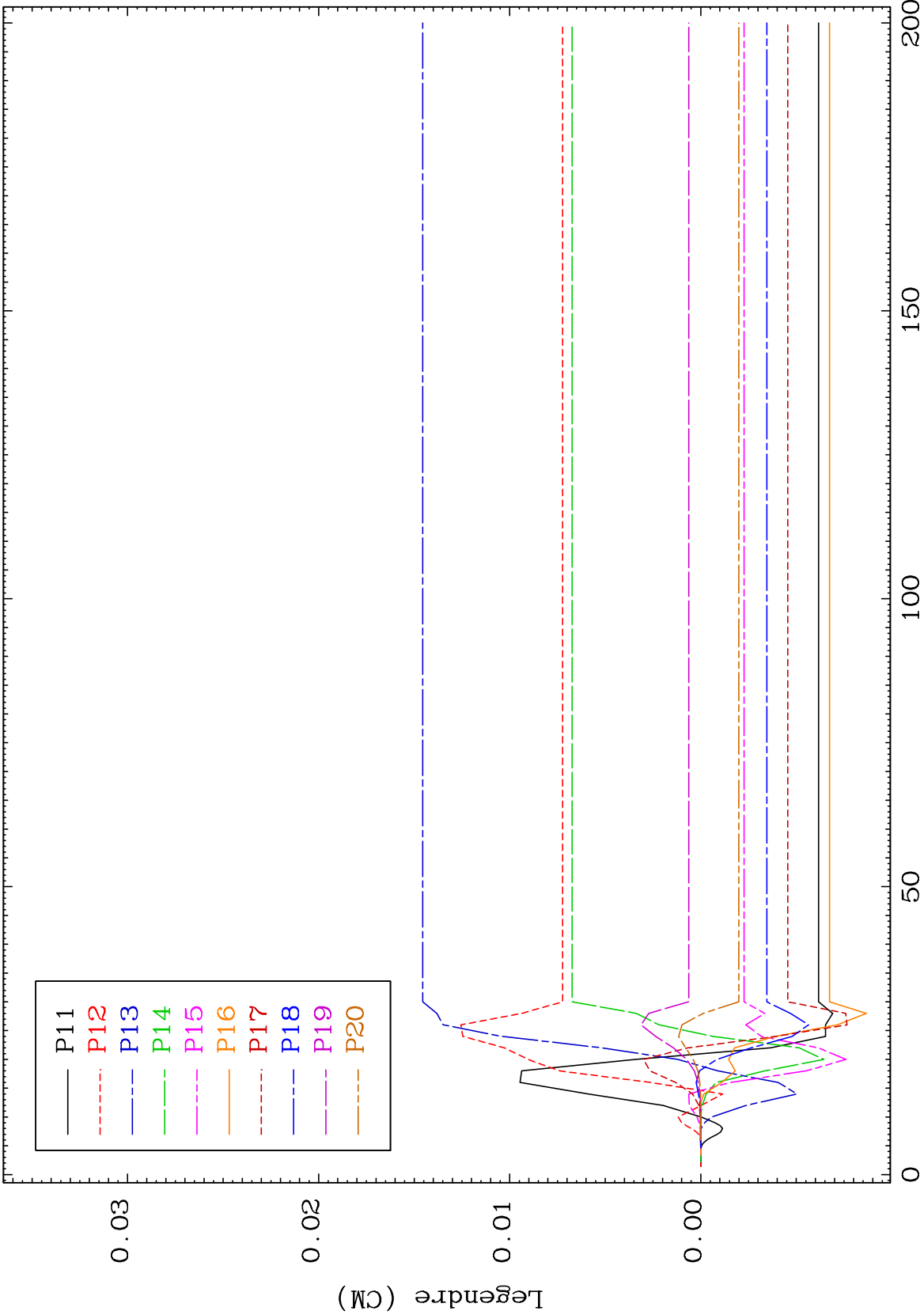
Legendre Coefficients



MAT 8095

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

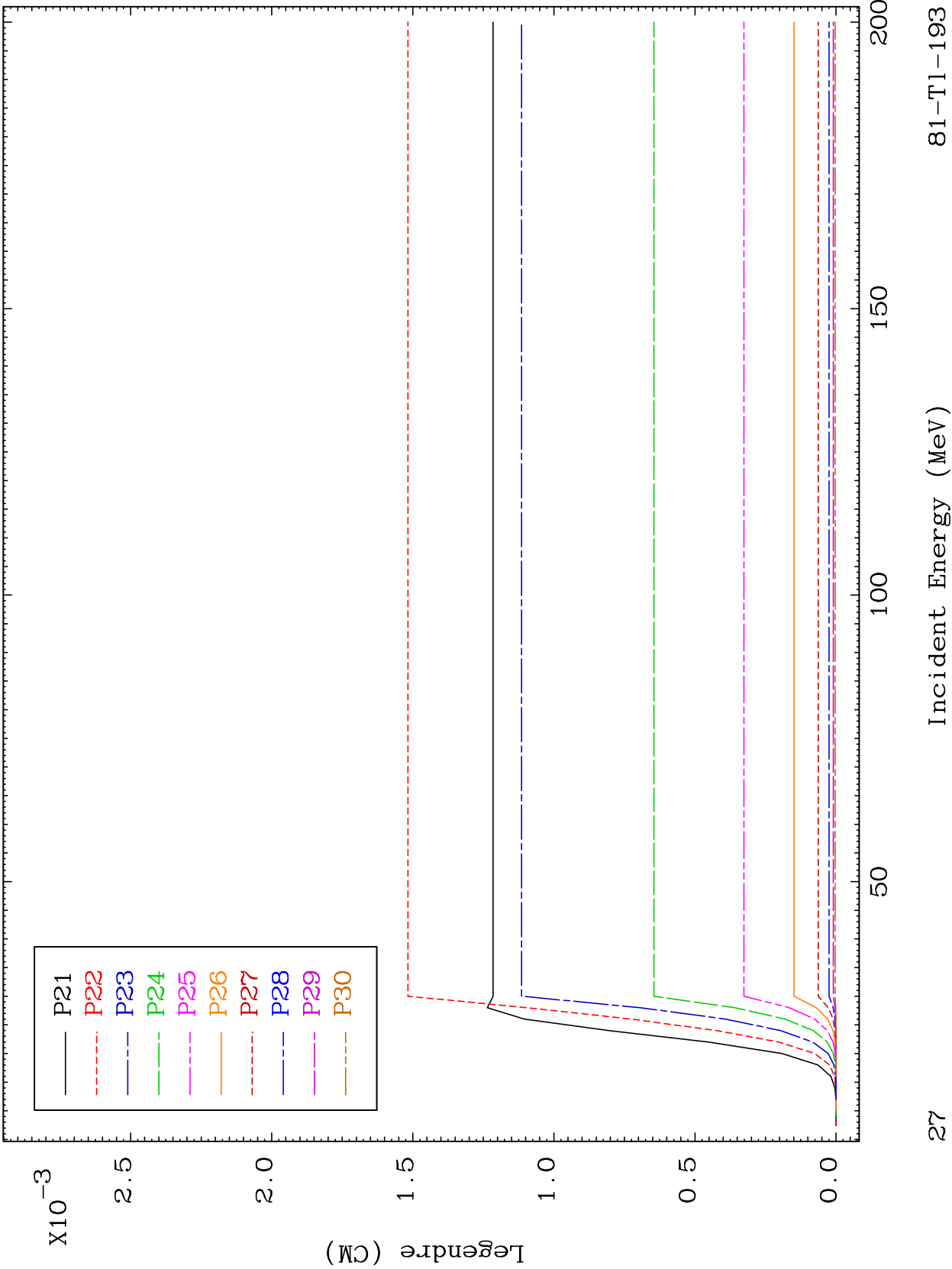
81-T1-193



26

Incident Energy (MeV)

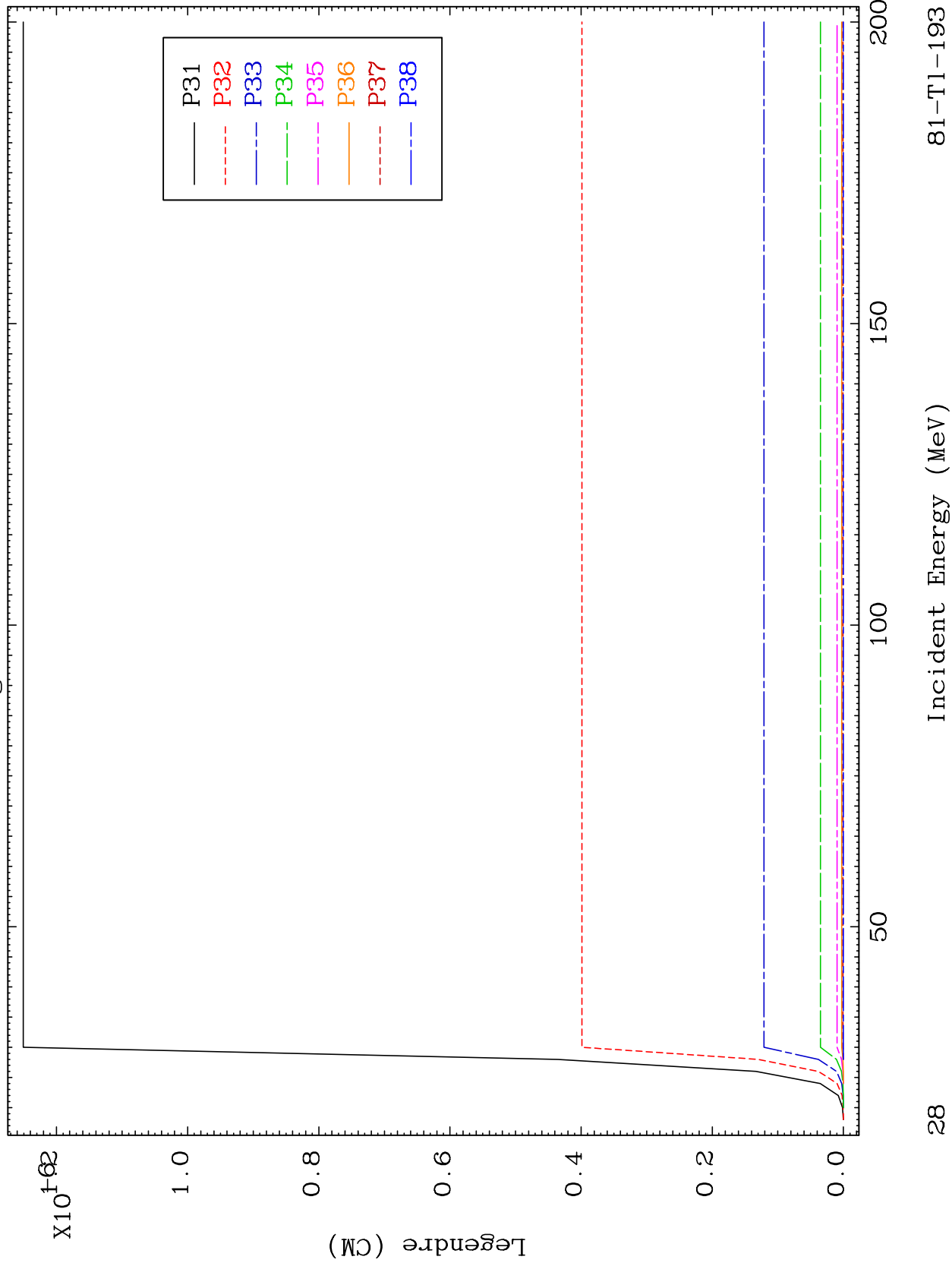
81-T1-193



MAT 8095

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

81-Tl-193



28

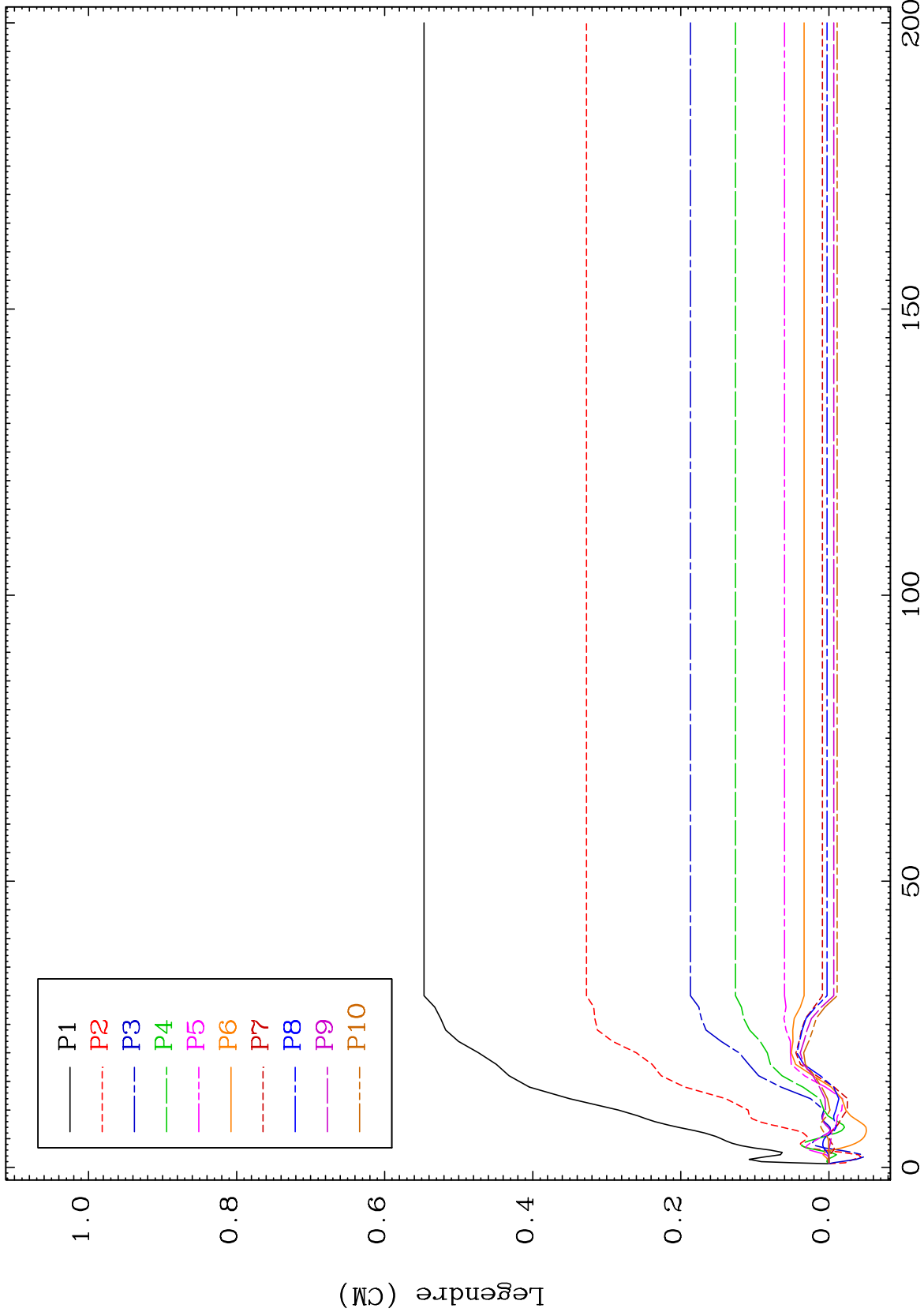
Incident Energy (MeV)

81-Tl-193

MAT 8095

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

81-T1-193



29

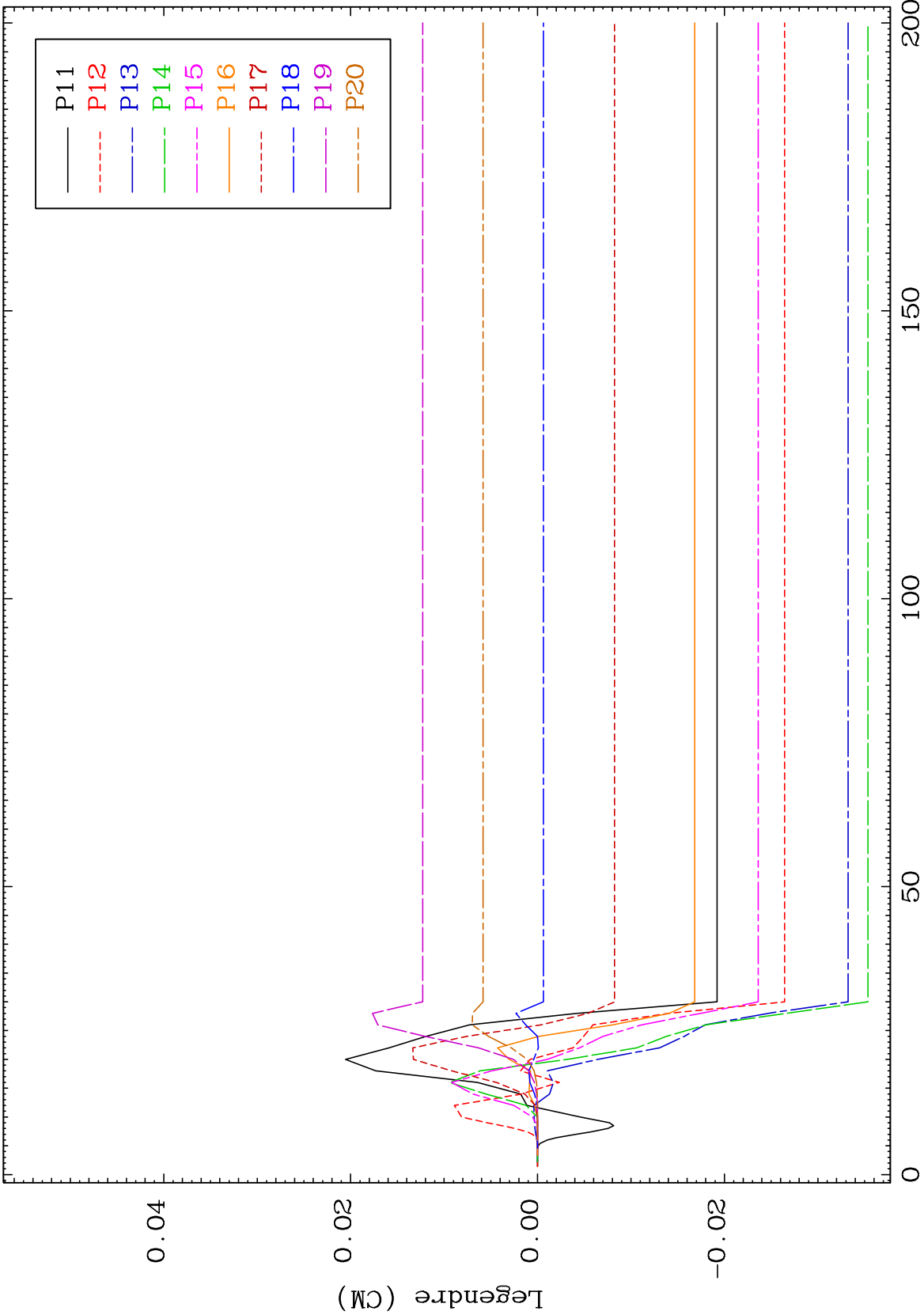
Incident Energy (MeV)

81-T1-193

MAT 8095

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

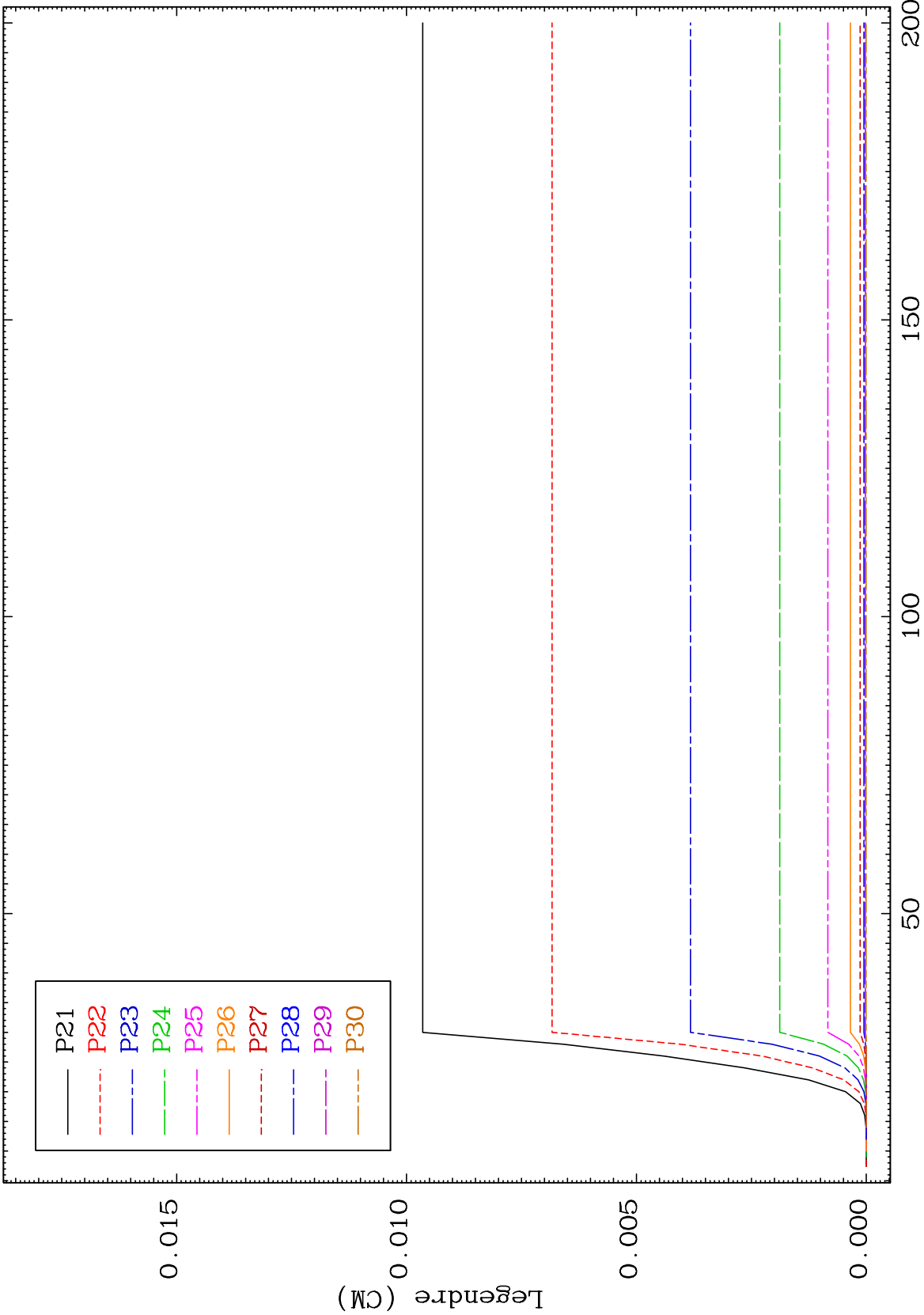
81-Tl-193



30

Incident Energy (MeV)

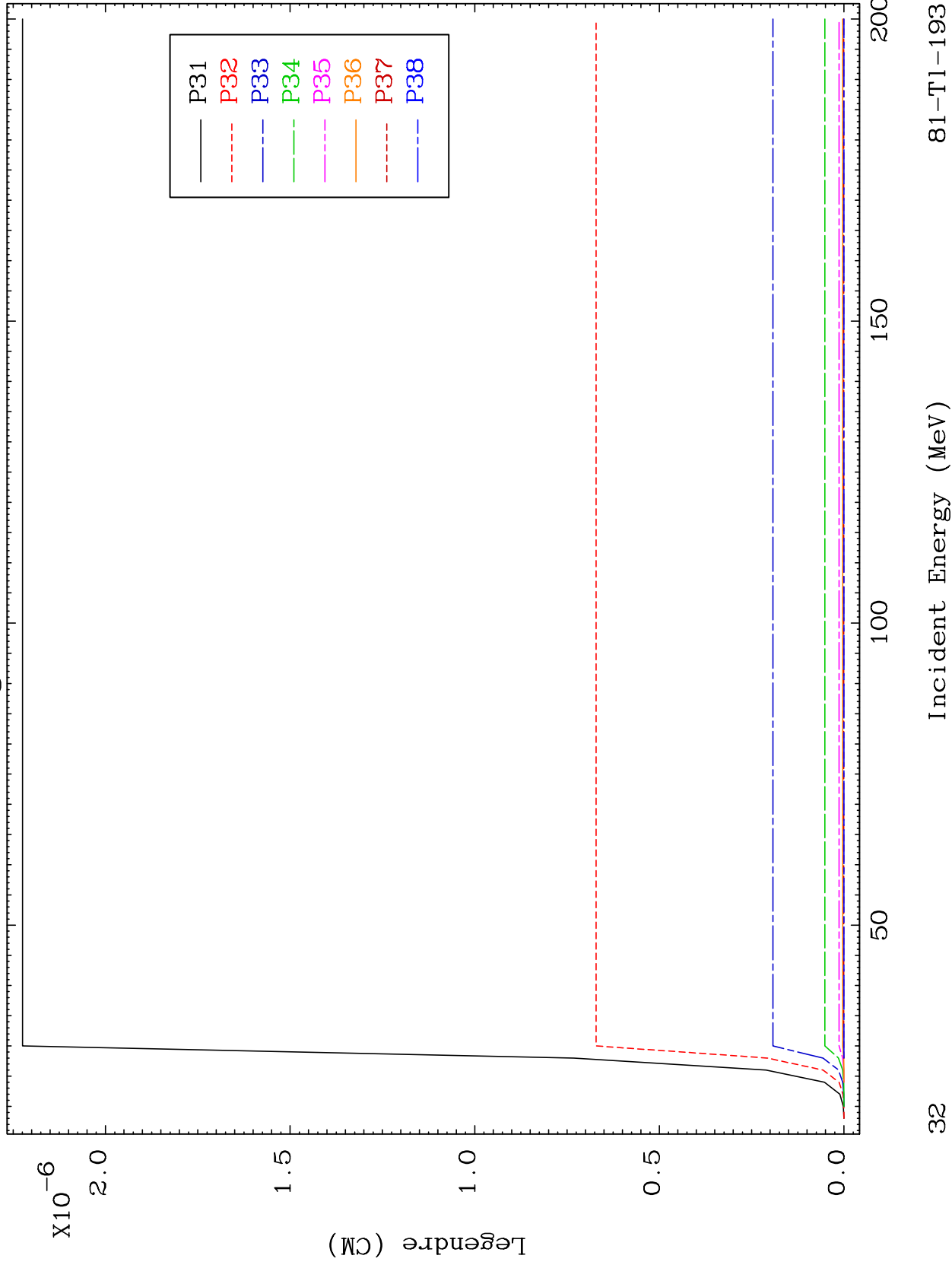
81-Tl-193



MAT 8095

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

81-T1-193



32

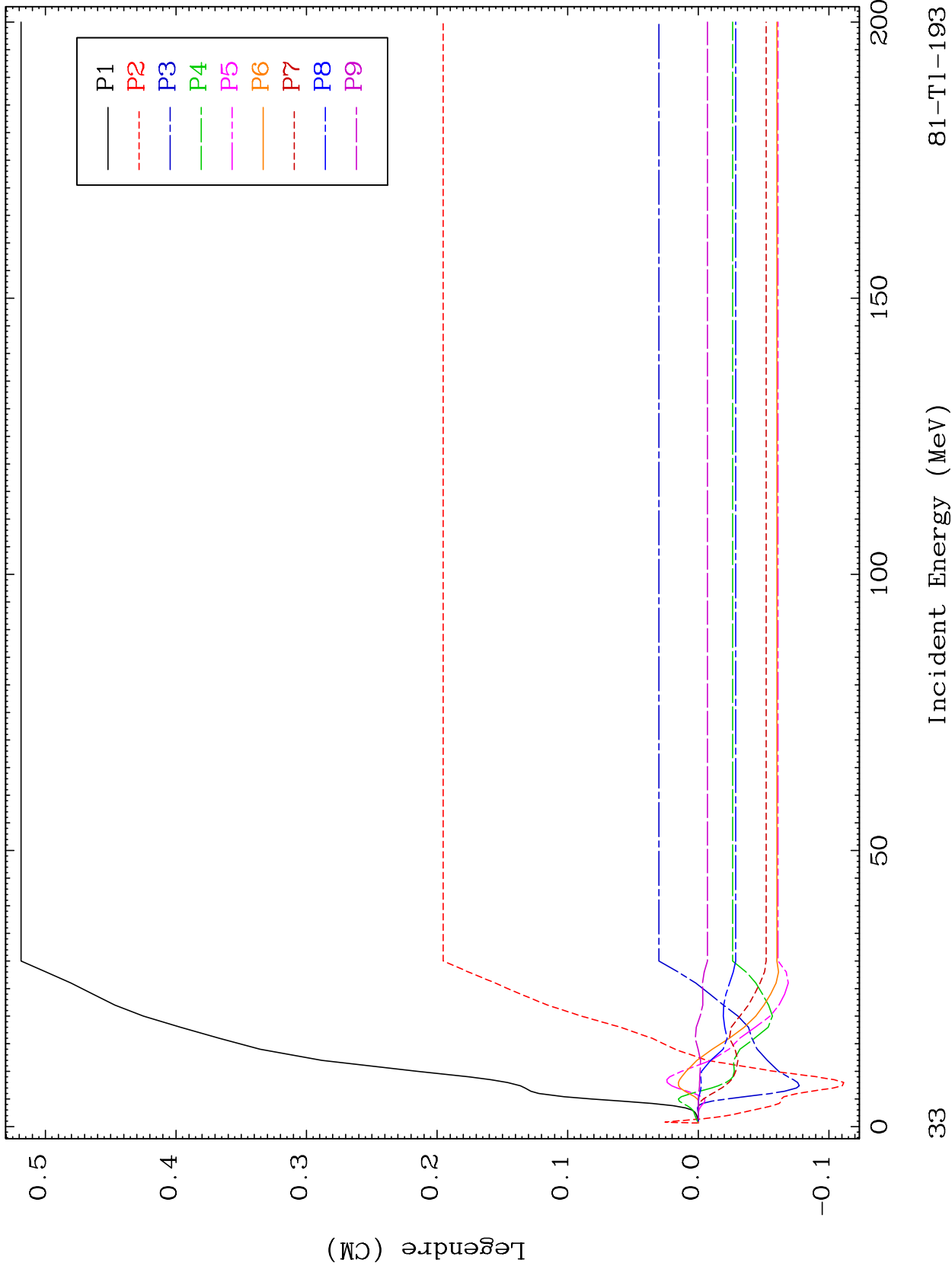
Incident Energy (MeV)

81-T1-193

MAT 8095

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

81-T1-193



33

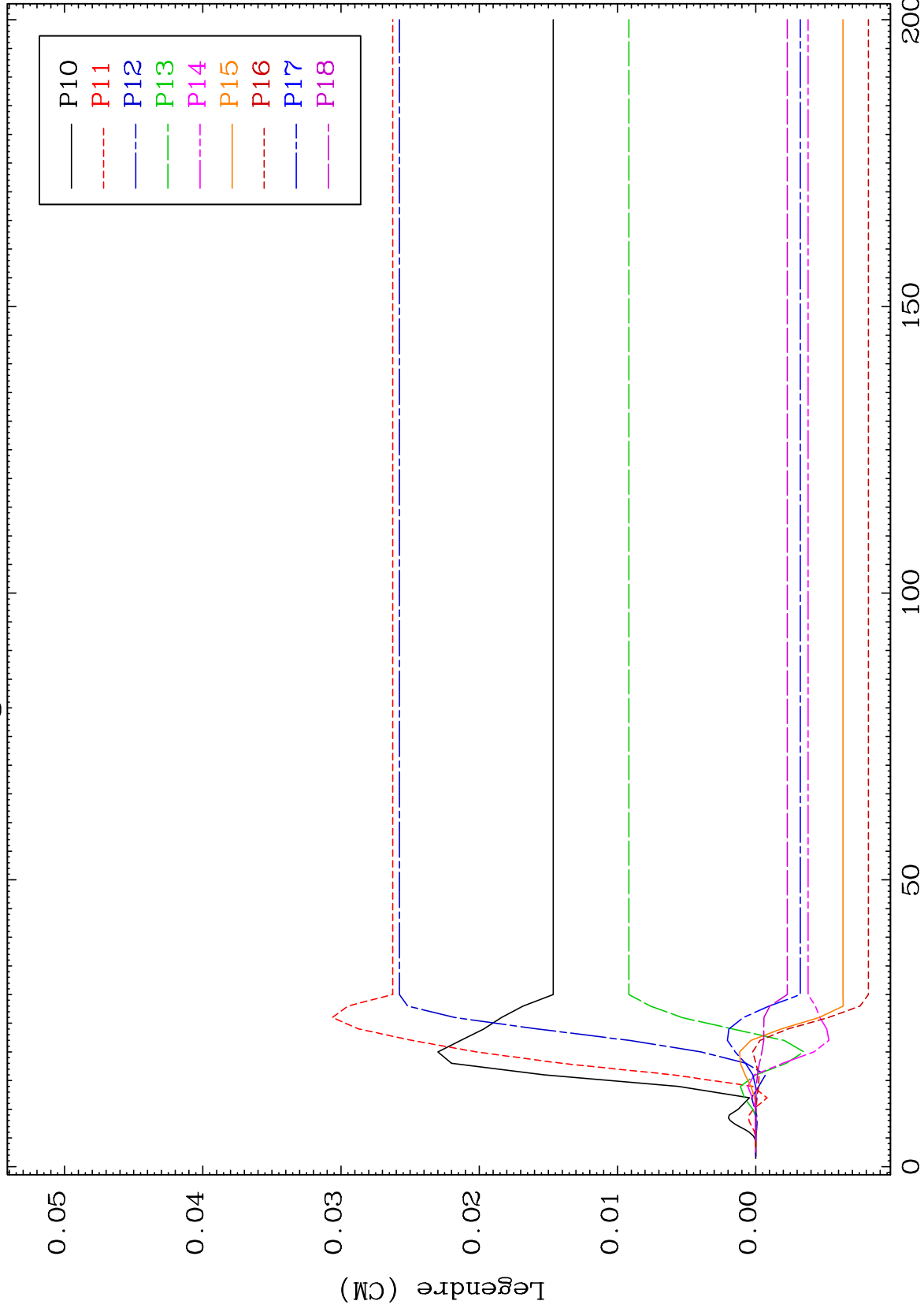
Incident Energy (MeV)

81-T1-193

MAT 8095

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

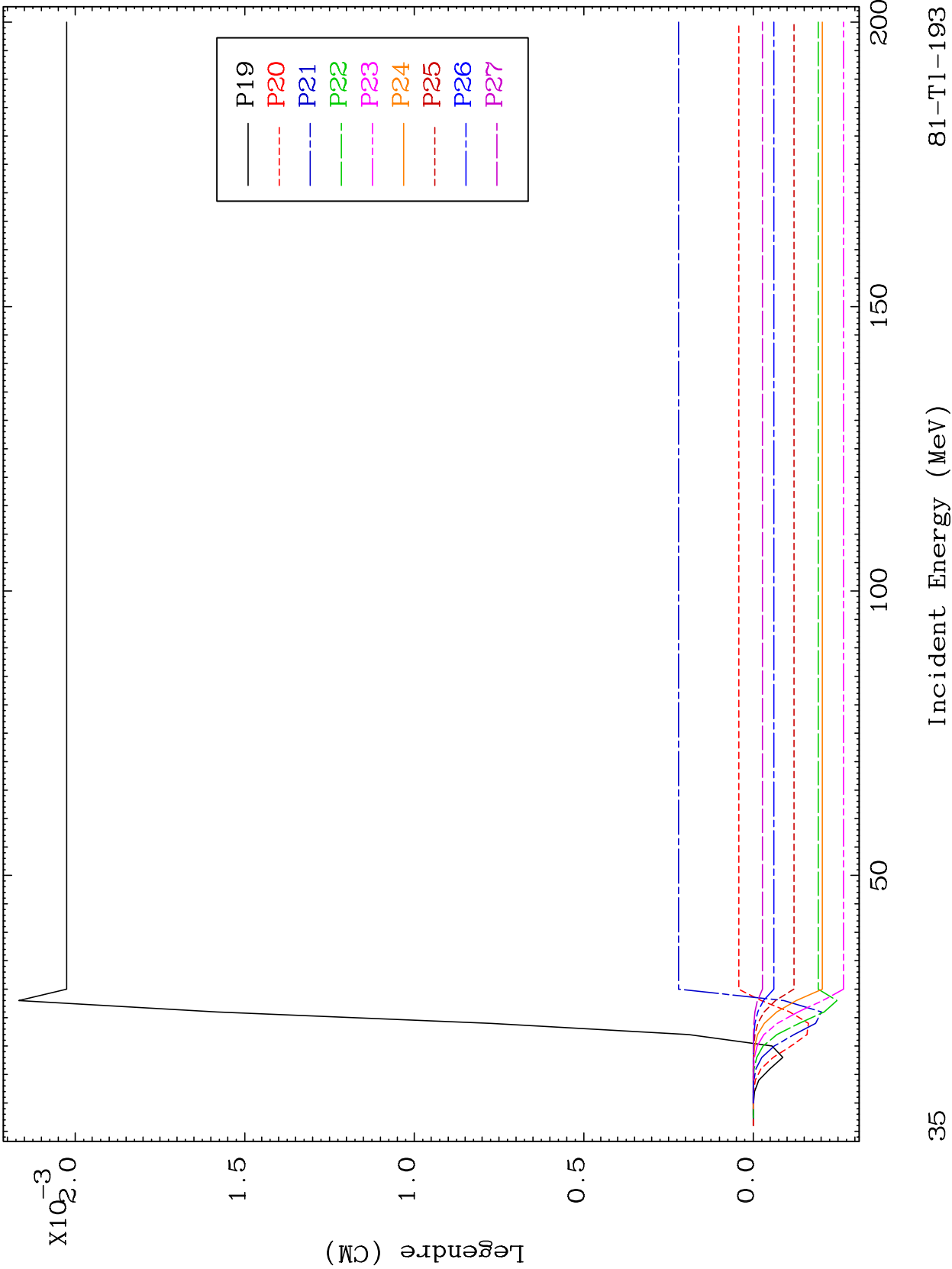
81-Tl-193



34

Incident Energy (MeV)

81-Tl-193

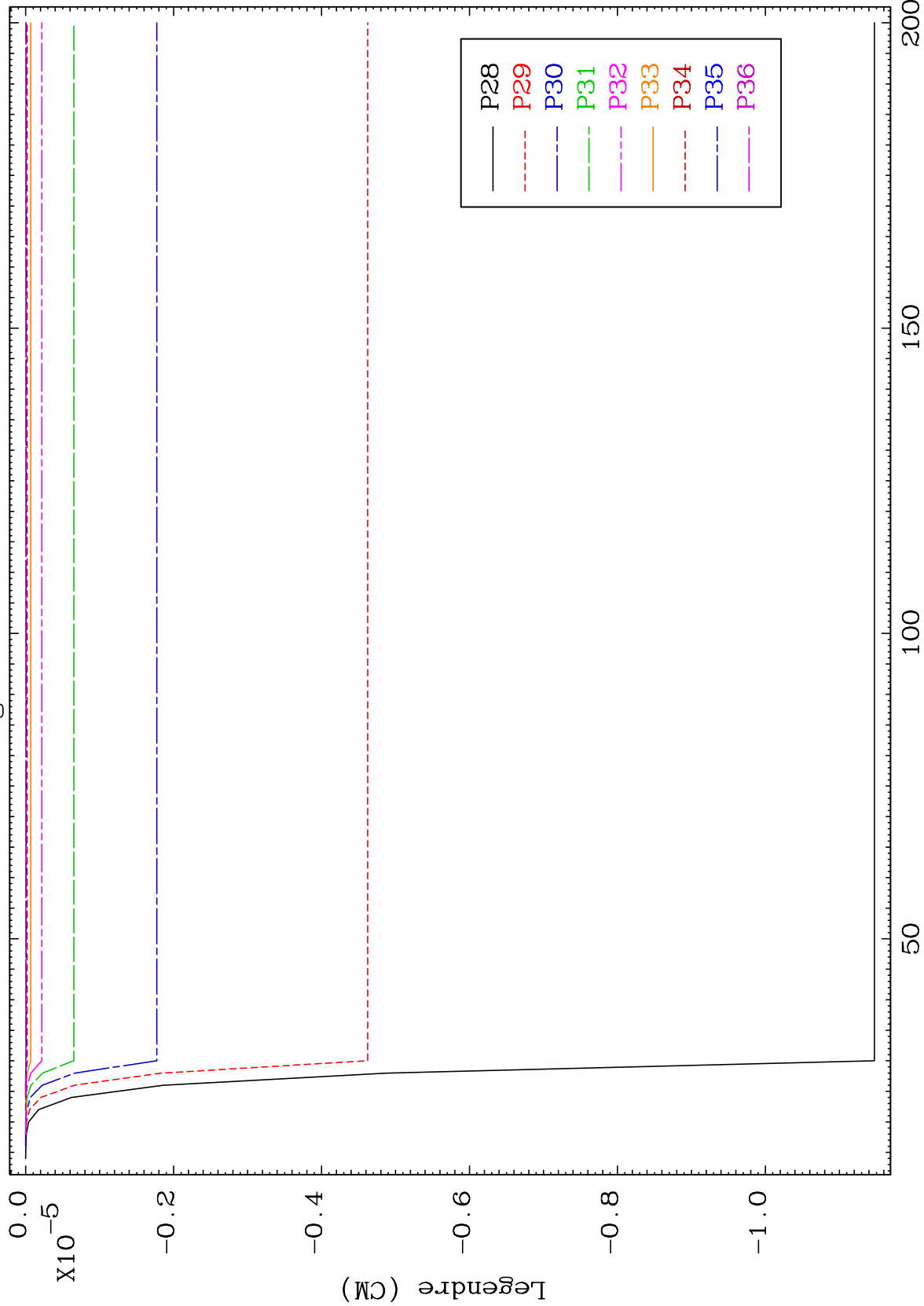


MAT 8095

MT= 54 (n,n') Level

81-Tl-193

Legendre Coefficients



36

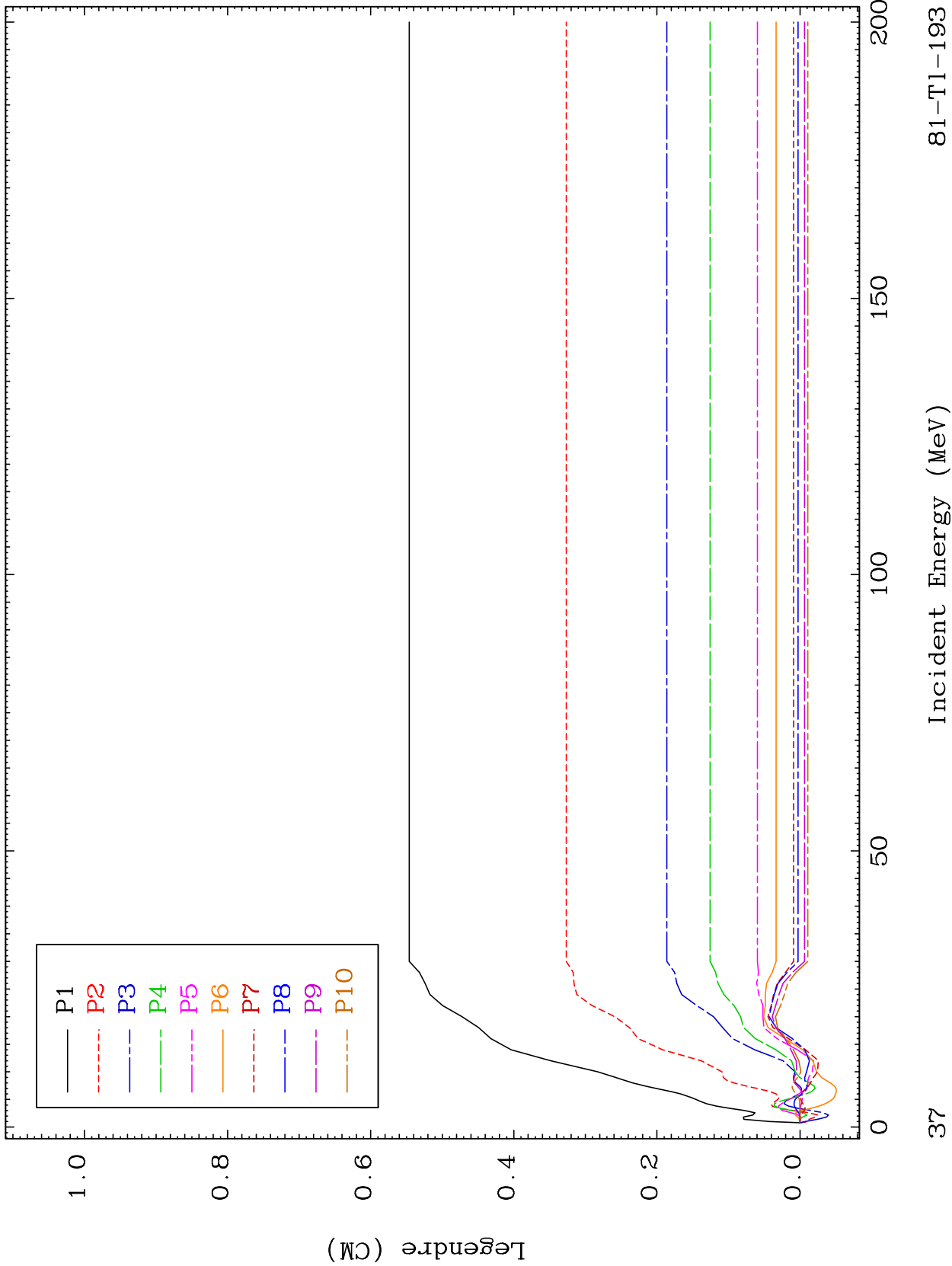
Incident Energy (MeV)

81-Tl-193

MAT 8095

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

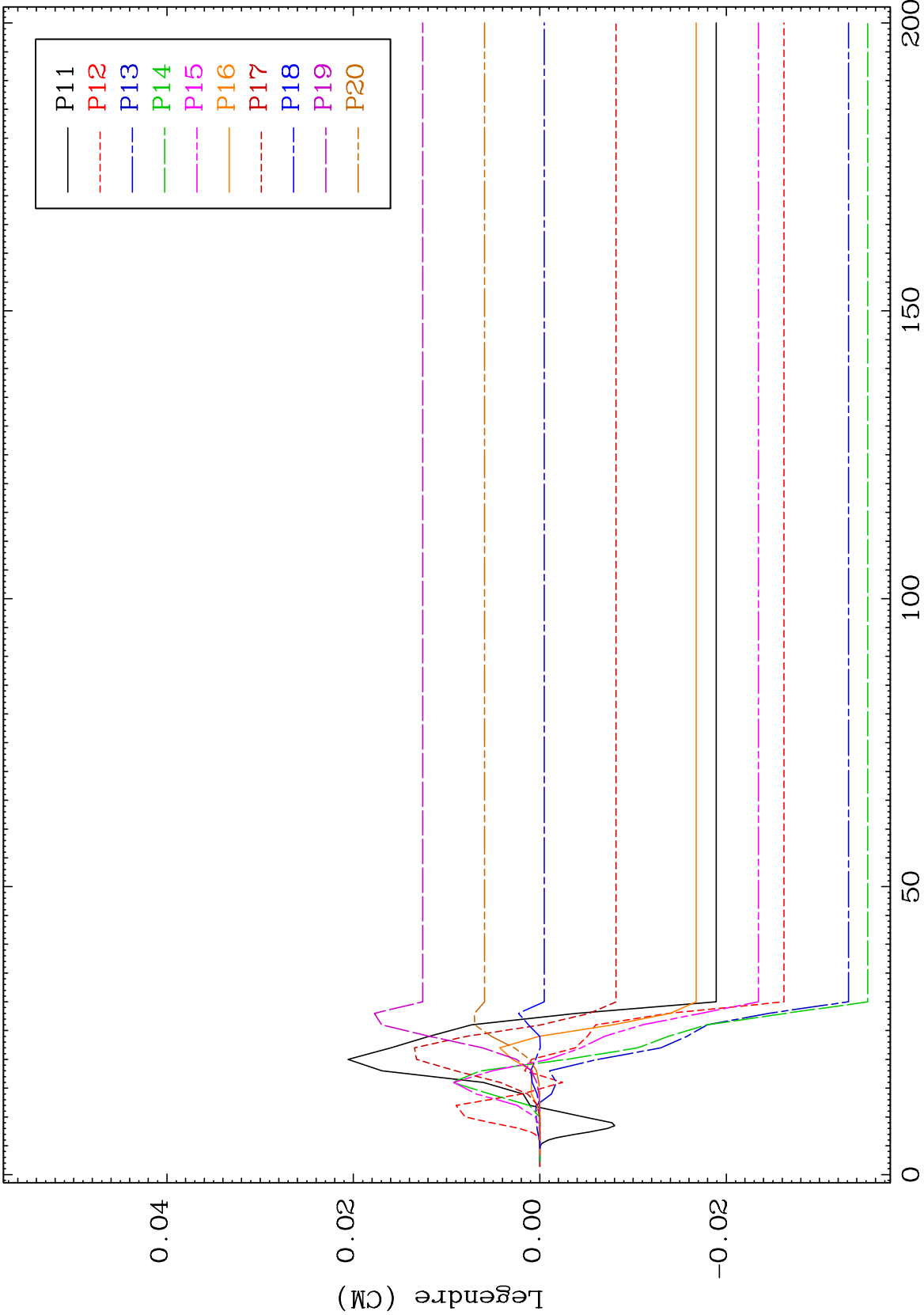
81-T1-193



MAT 8095

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

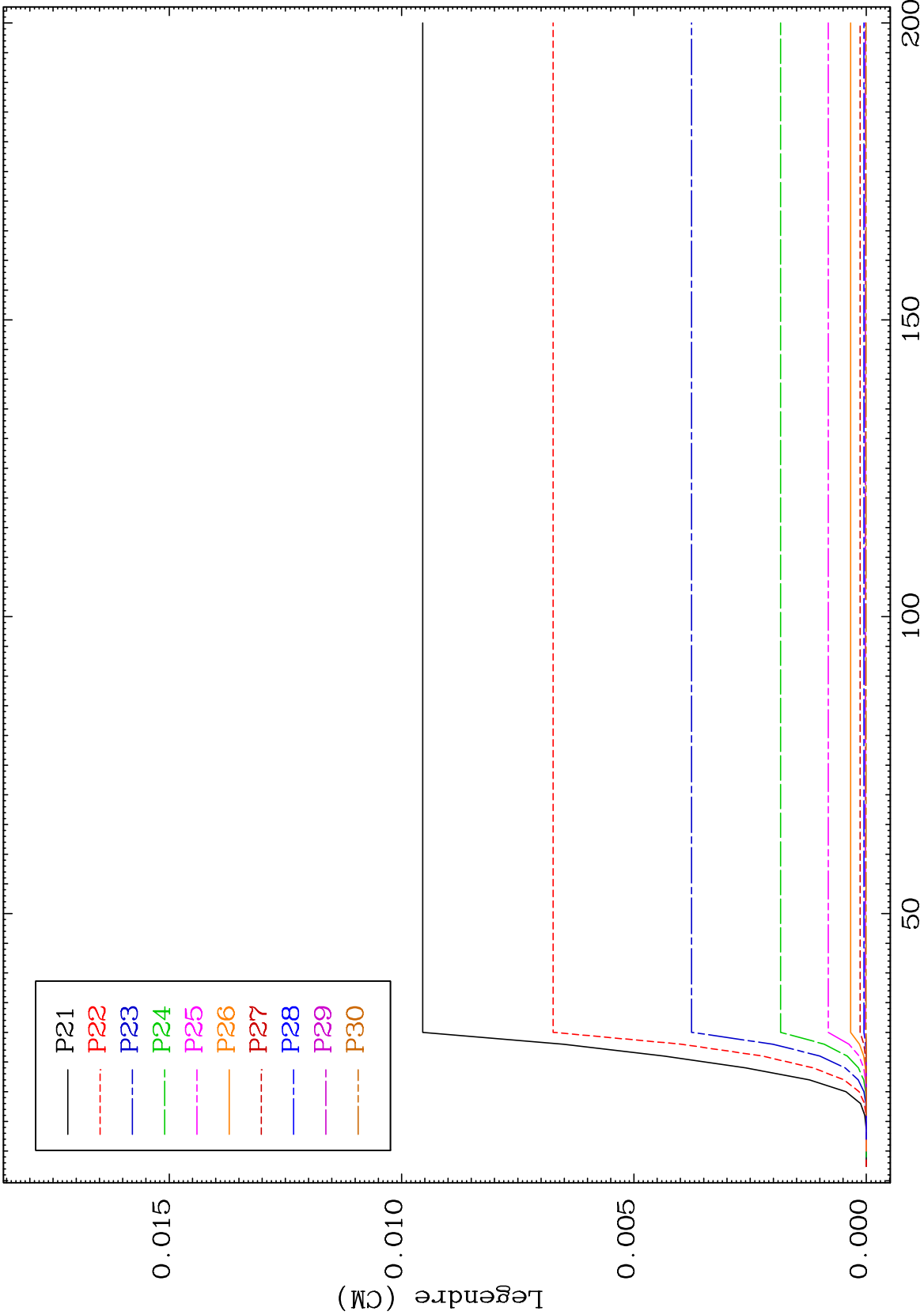
81-Tl-193



38

Incident Energy (MeV)

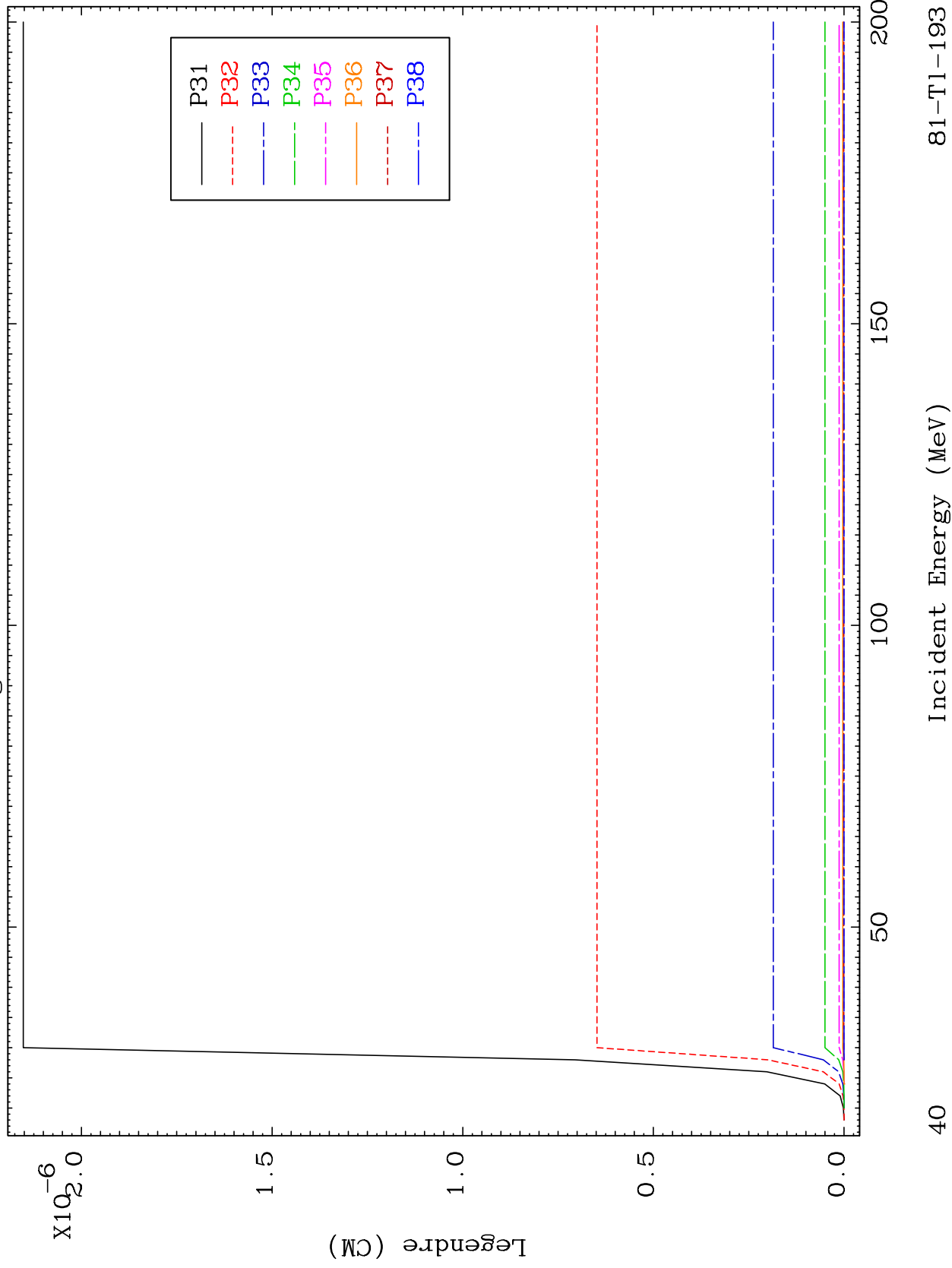
81-Tl-193

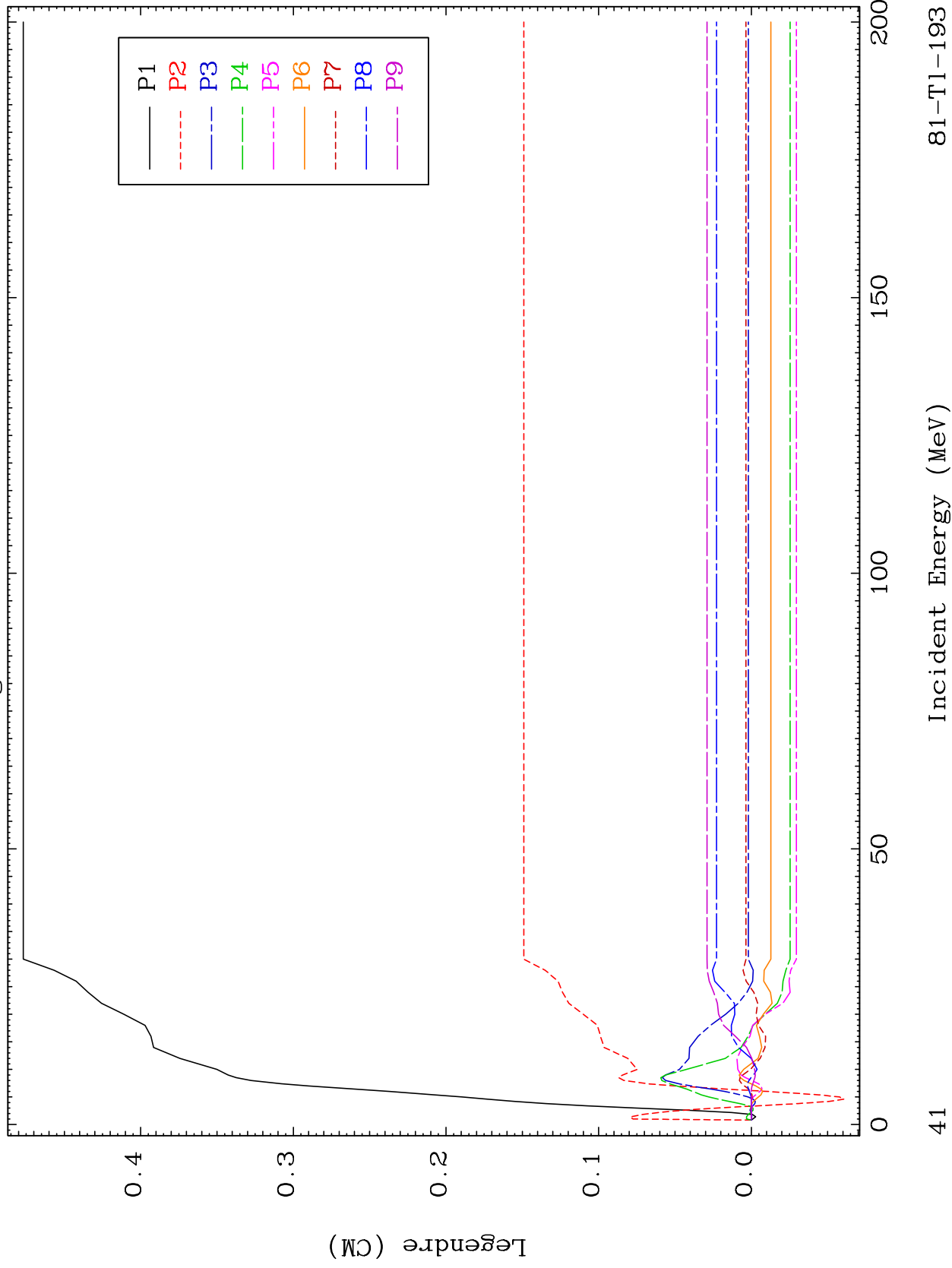


MAT 8095

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

81-T1-193

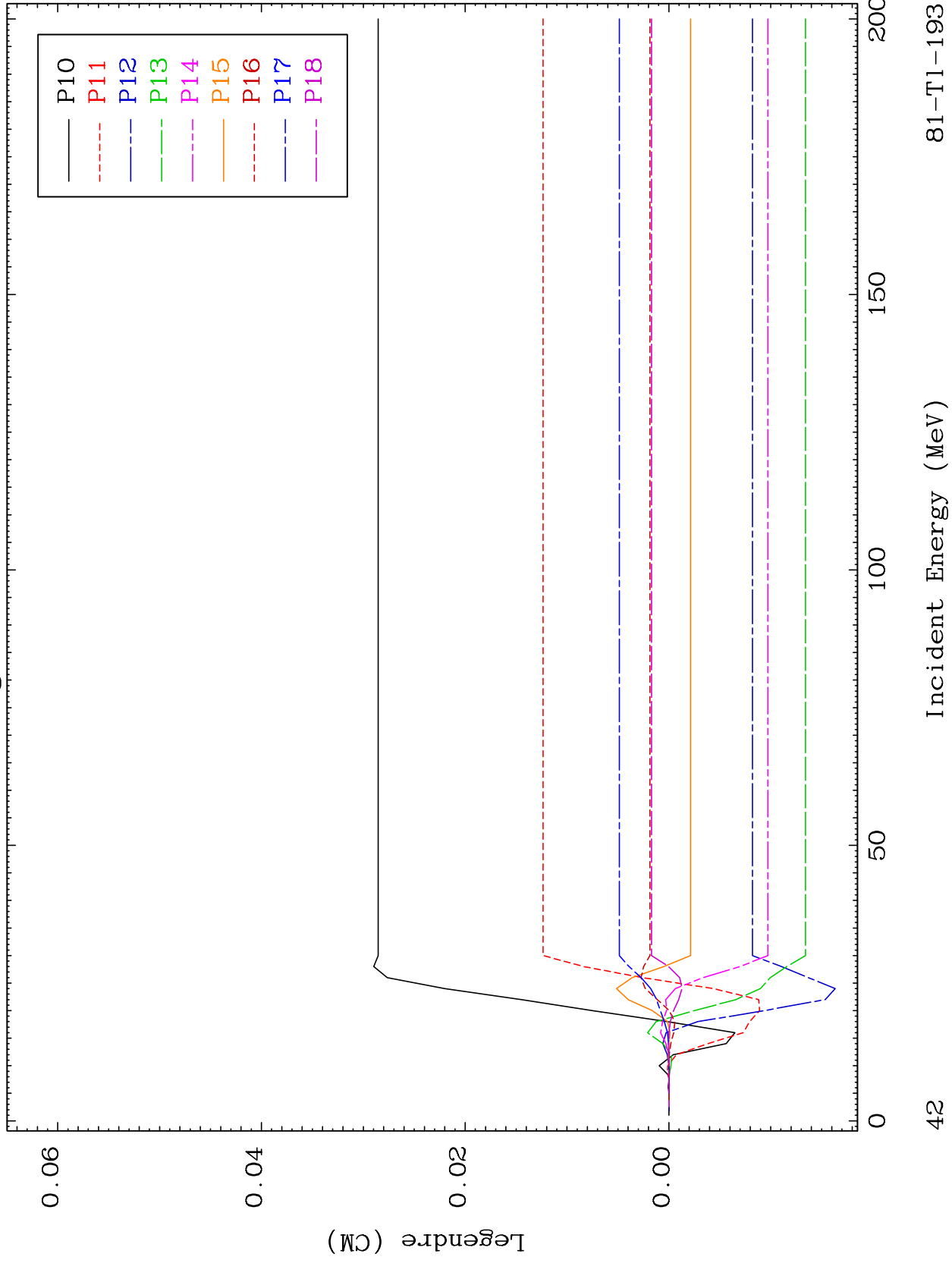




MAT 8095

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

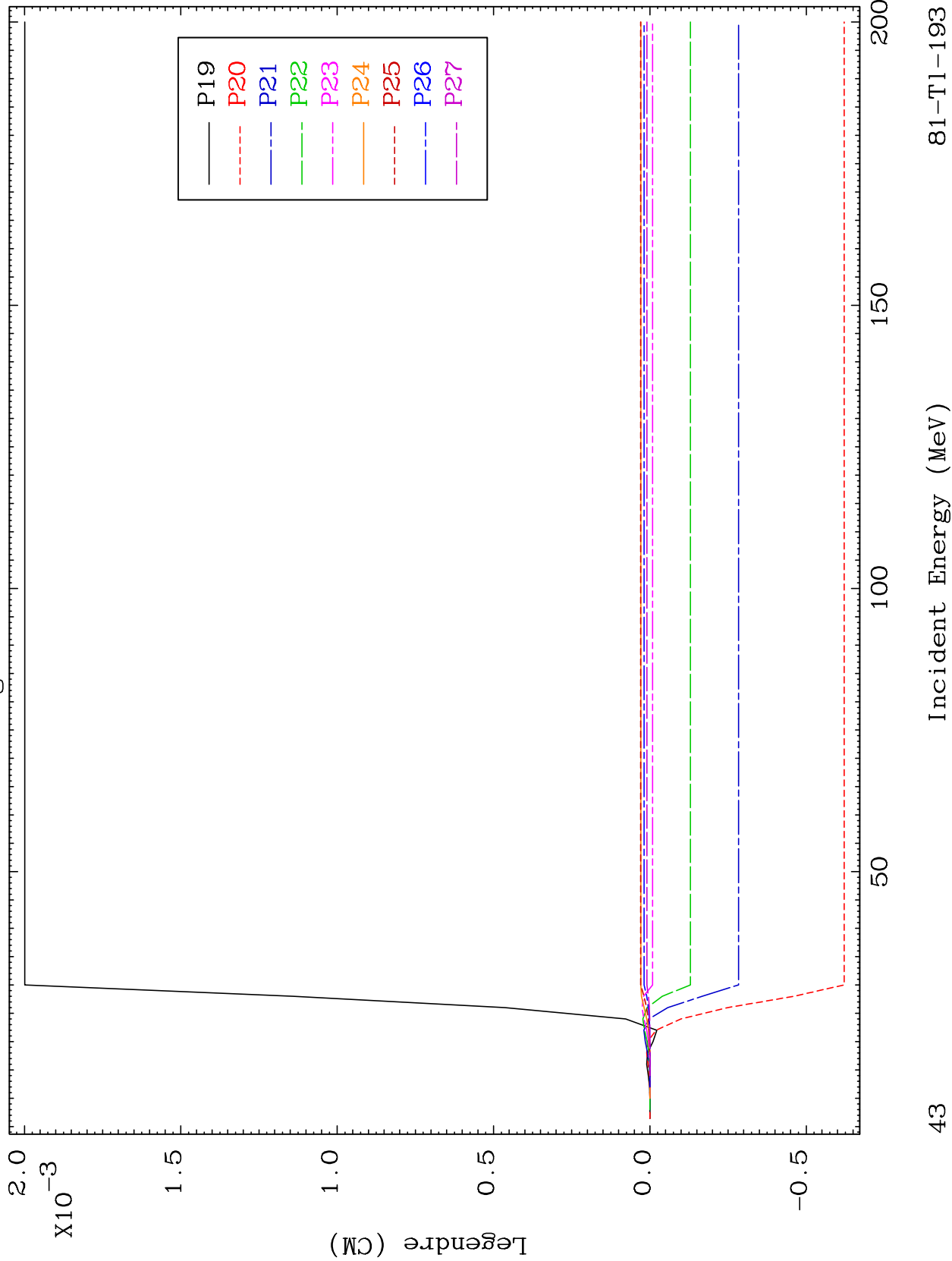
81-T1-193



81-T1-193

Incident Energy (MeV)

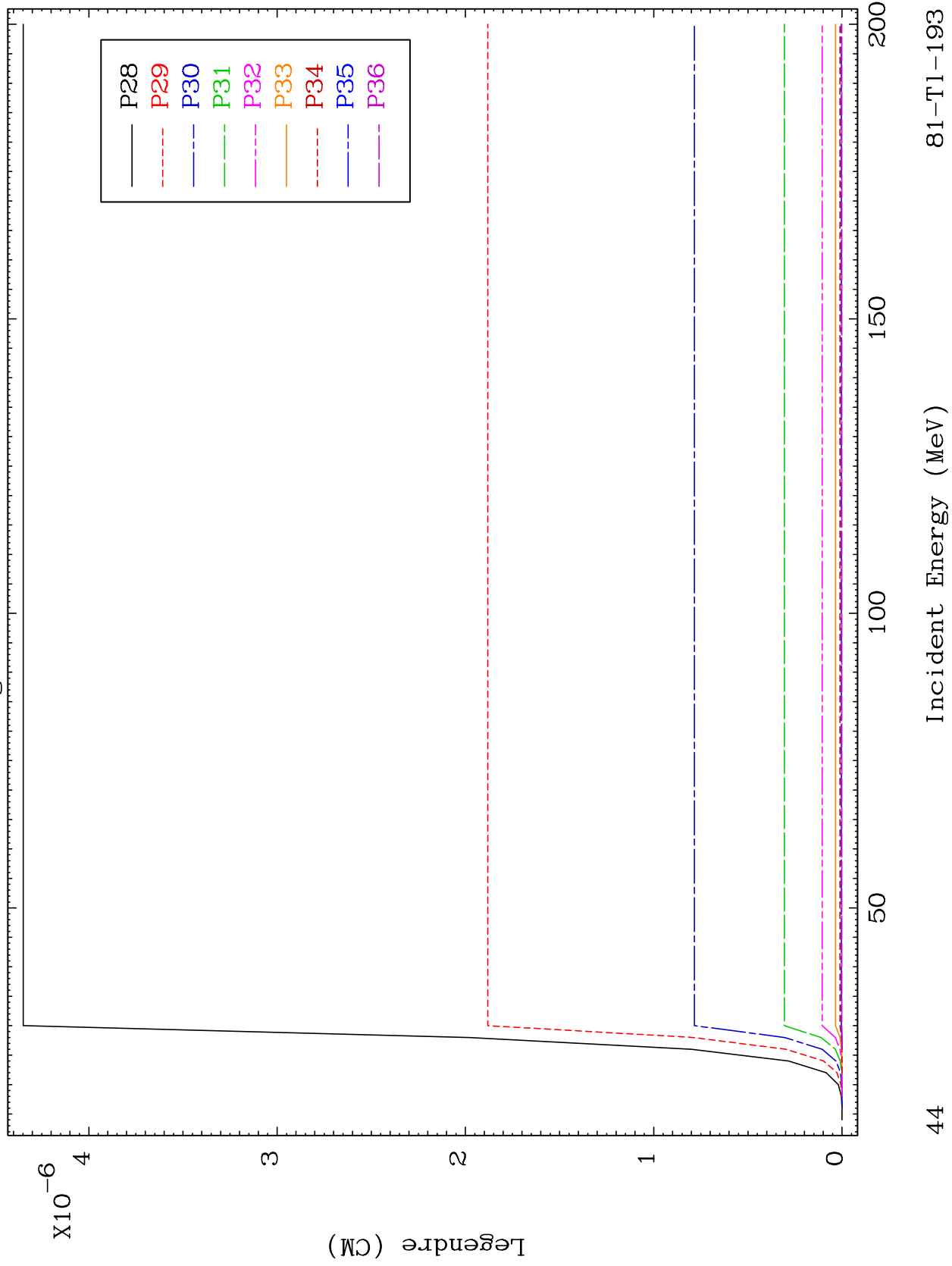
42



MAT 8095

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

81-Tl-193

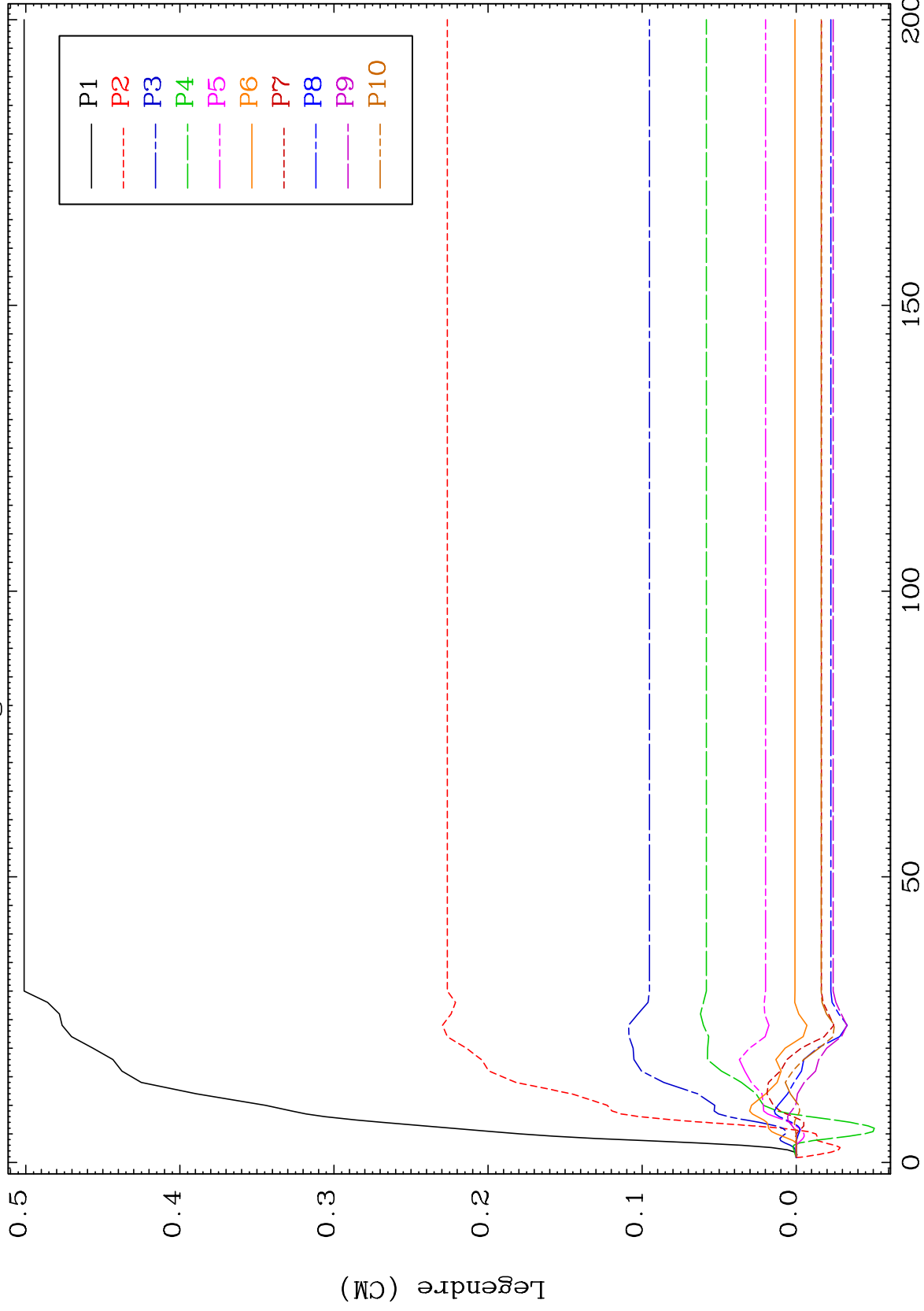


MAT 8095

MT= 57 (n,n') Level

81-Tl-193

Legendre Coefficients



45

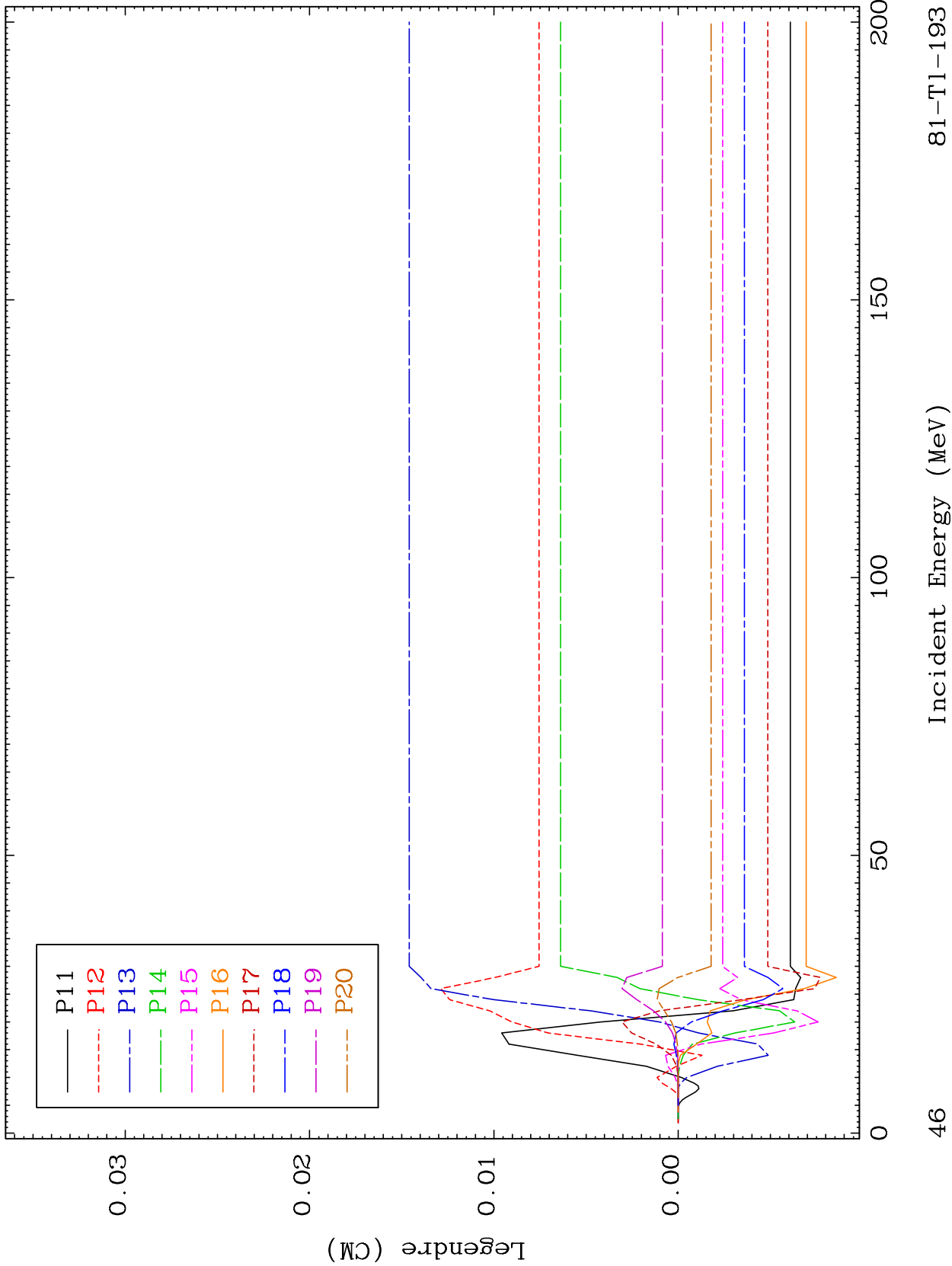
Incident Energy (MeV)

81-Tl-193

MAT 8095

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

81-Tl-193



46

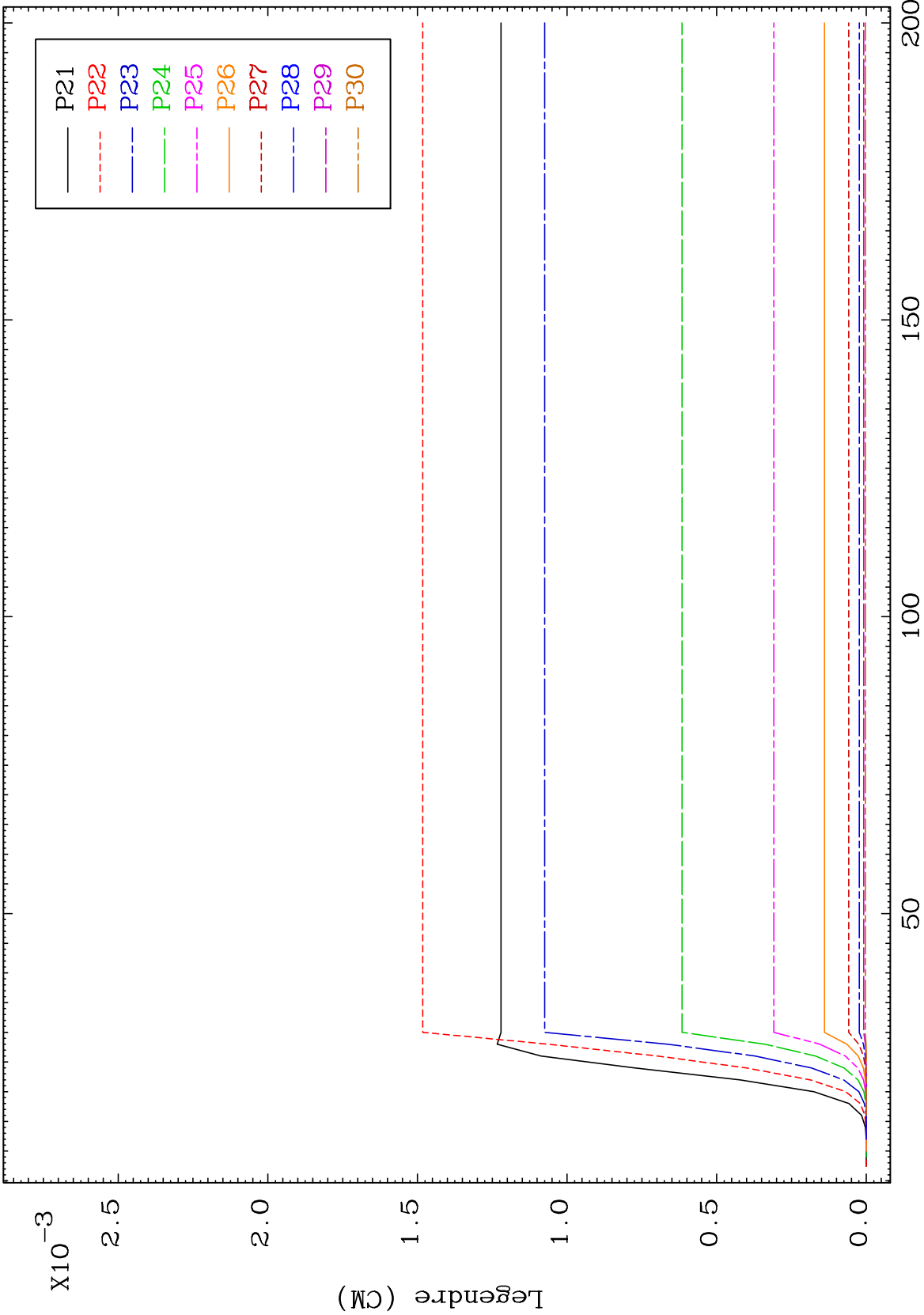
Incident Energy (MeV)

81-Tl-193

MAT 8095

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

81-T1-193



47

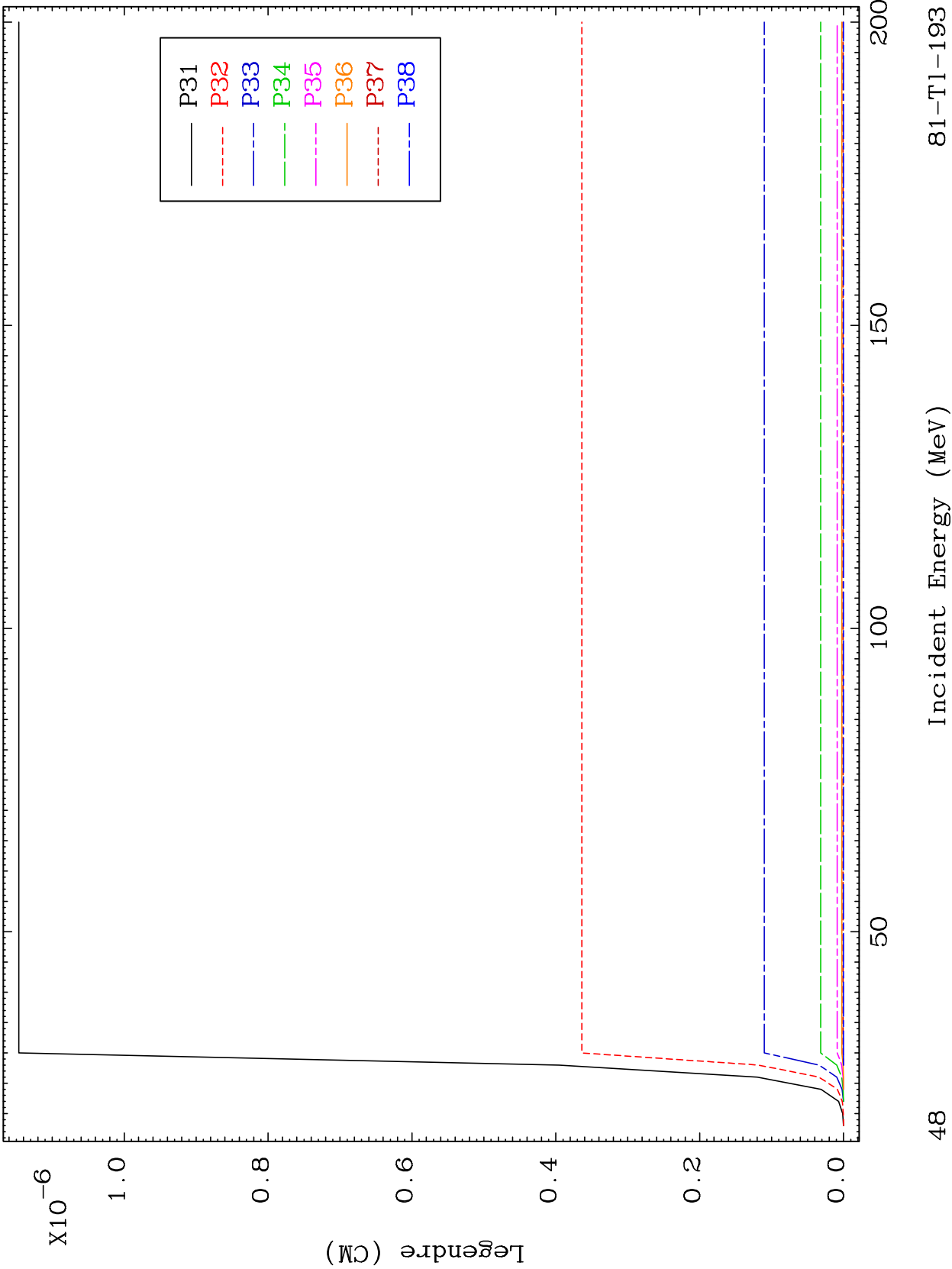
Incident Energy (MeV)

81-T1-193

MAT 8095

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

81-Tl-193



48

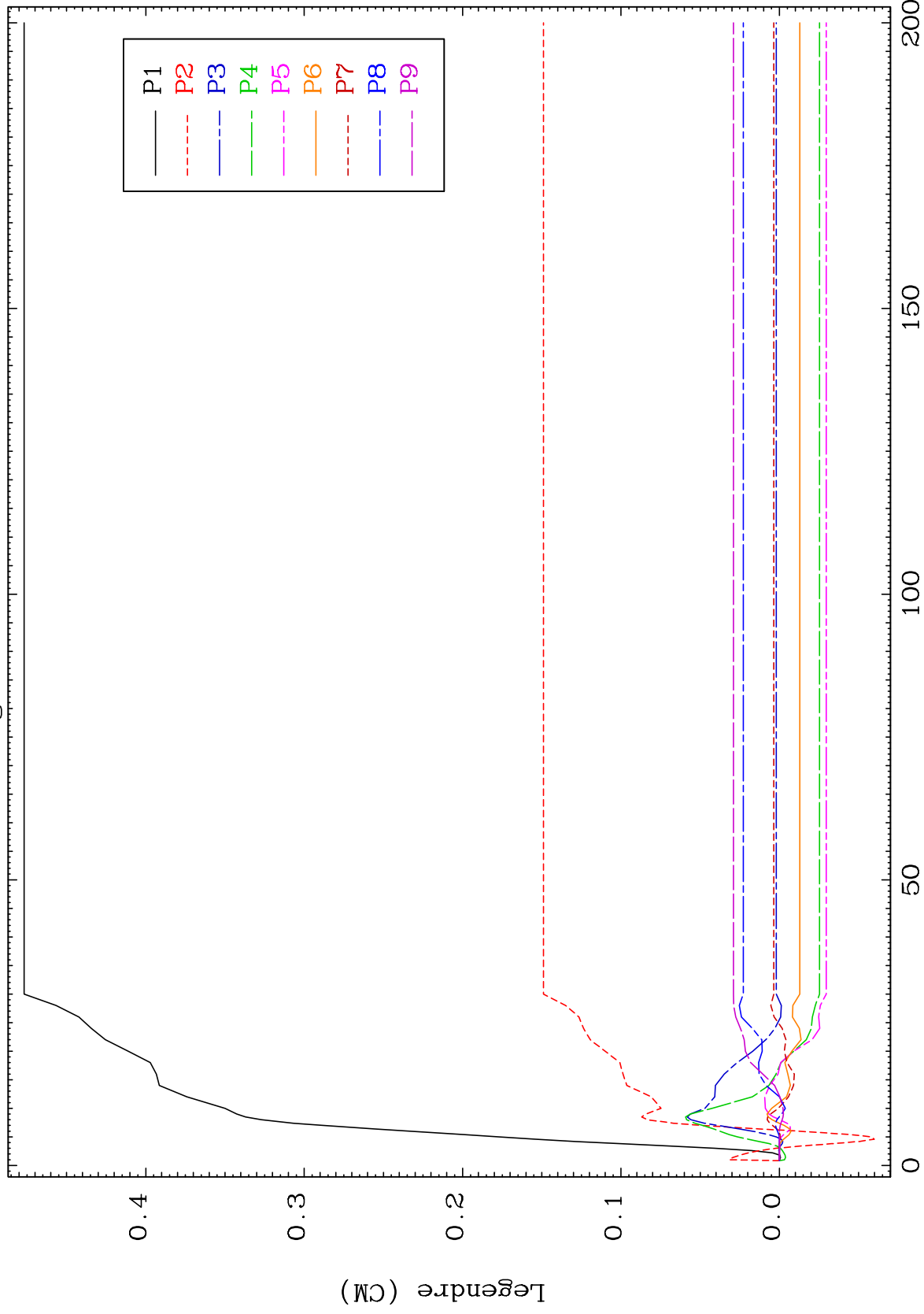
Incident Energy (MeV)

81-Tl-193

MAT 8095

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

81-T1-193



49

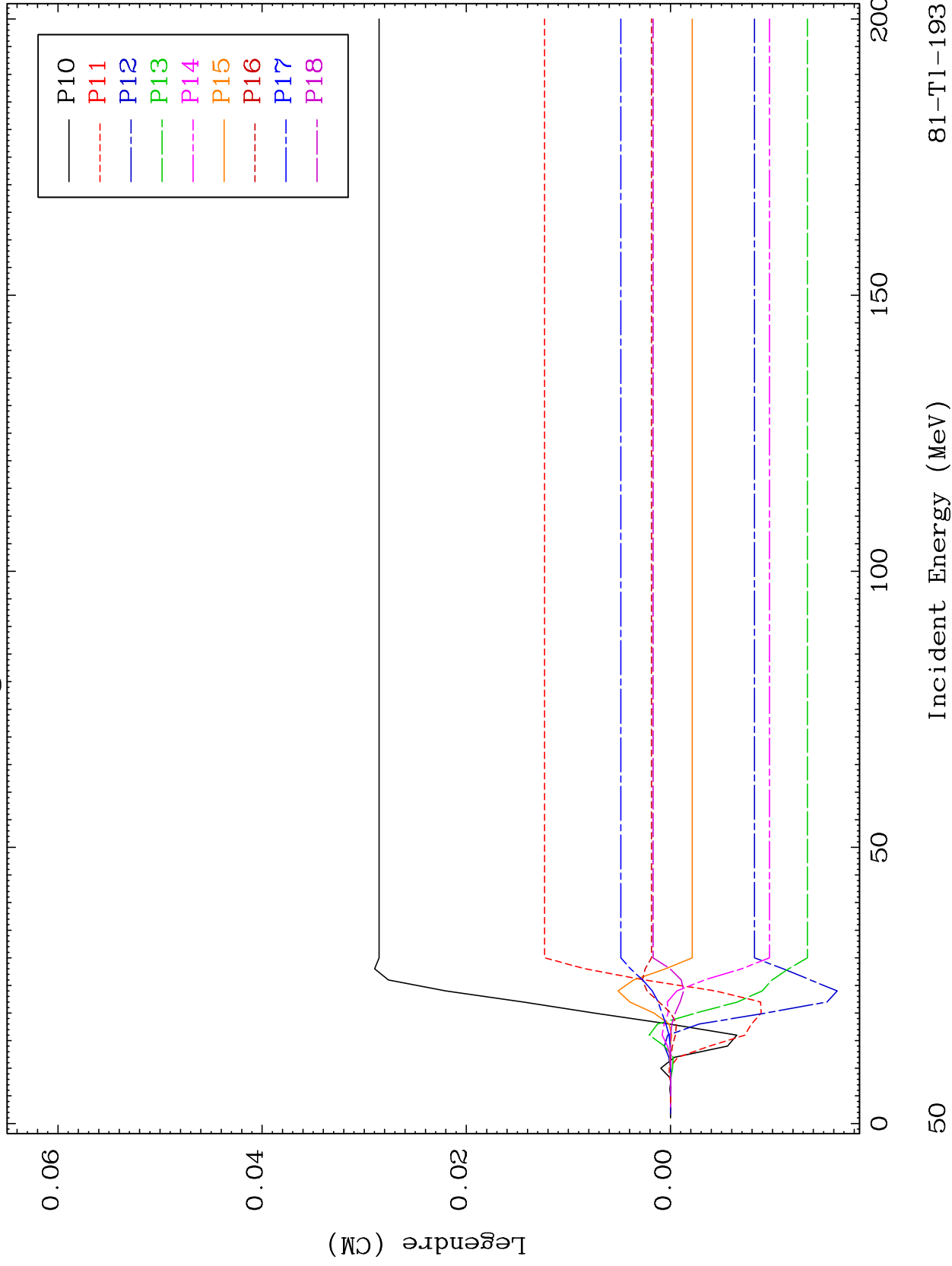
Incident Energy (MeV)

81-T1-193

MAT 8095

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

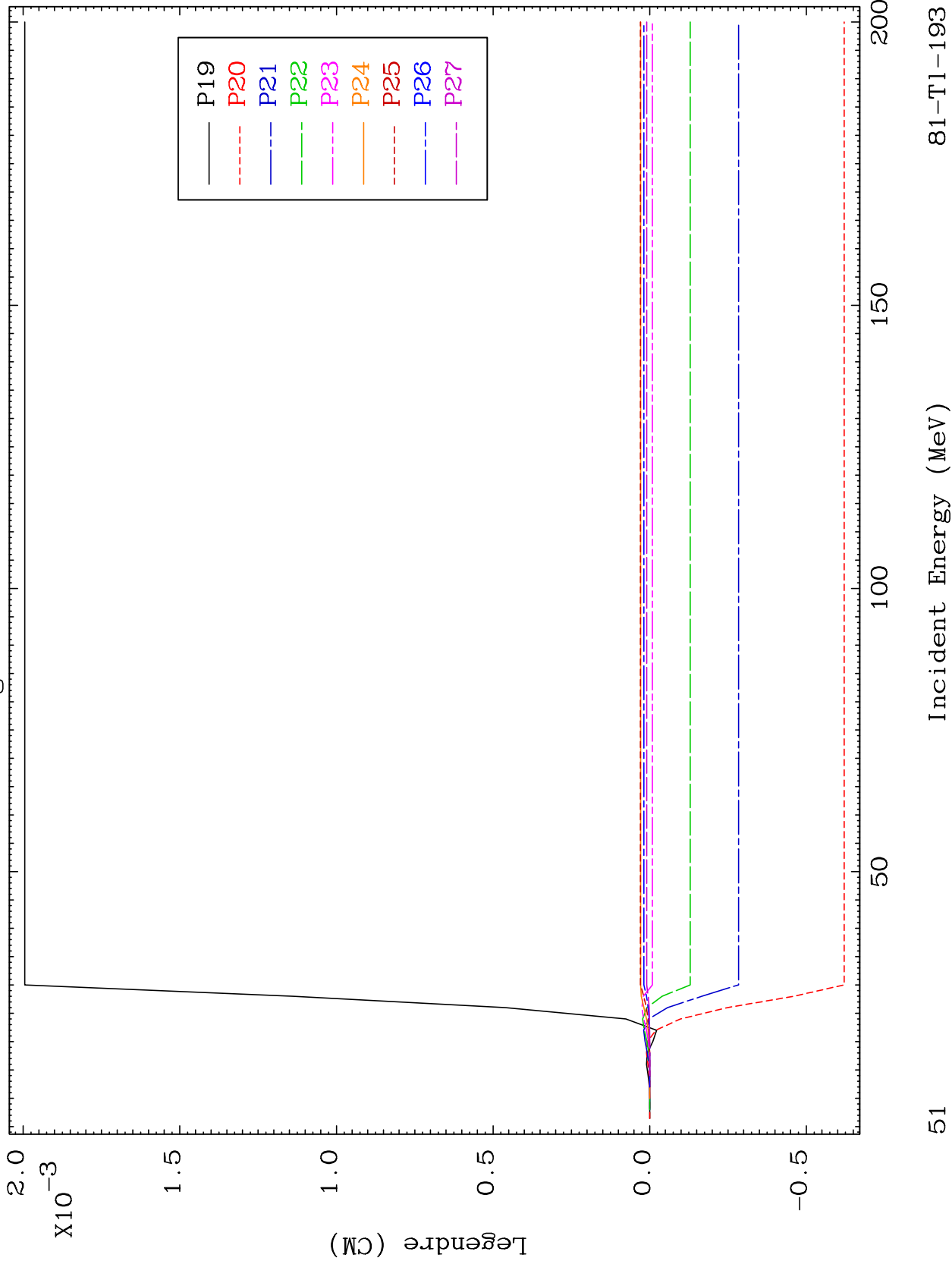
81-Tl-193



81-Tl-193

Incident Energy (MeV)

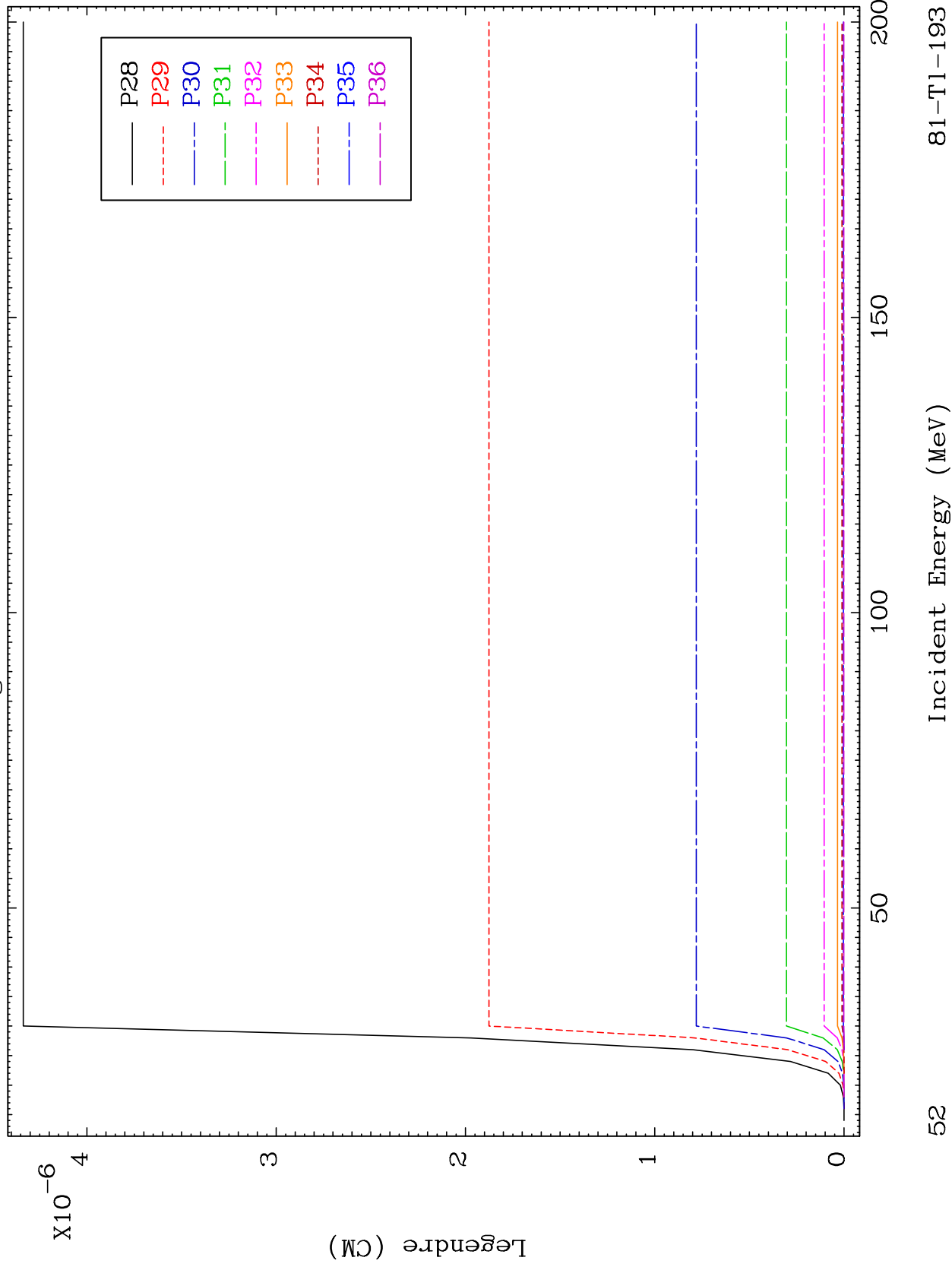
50



MAT 8095

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

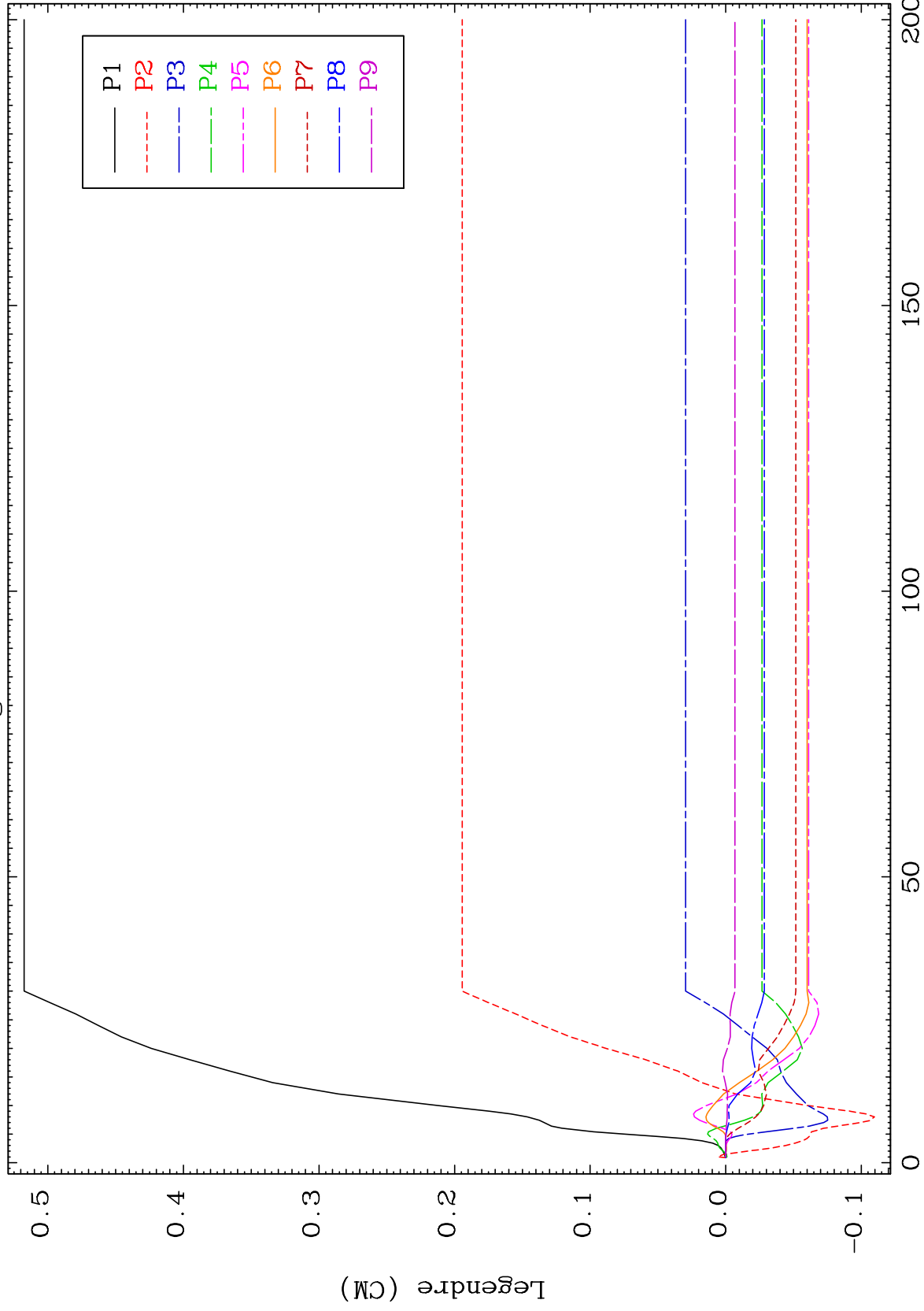
81-Tl-193



MAT 8095

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

81-T1-193



53

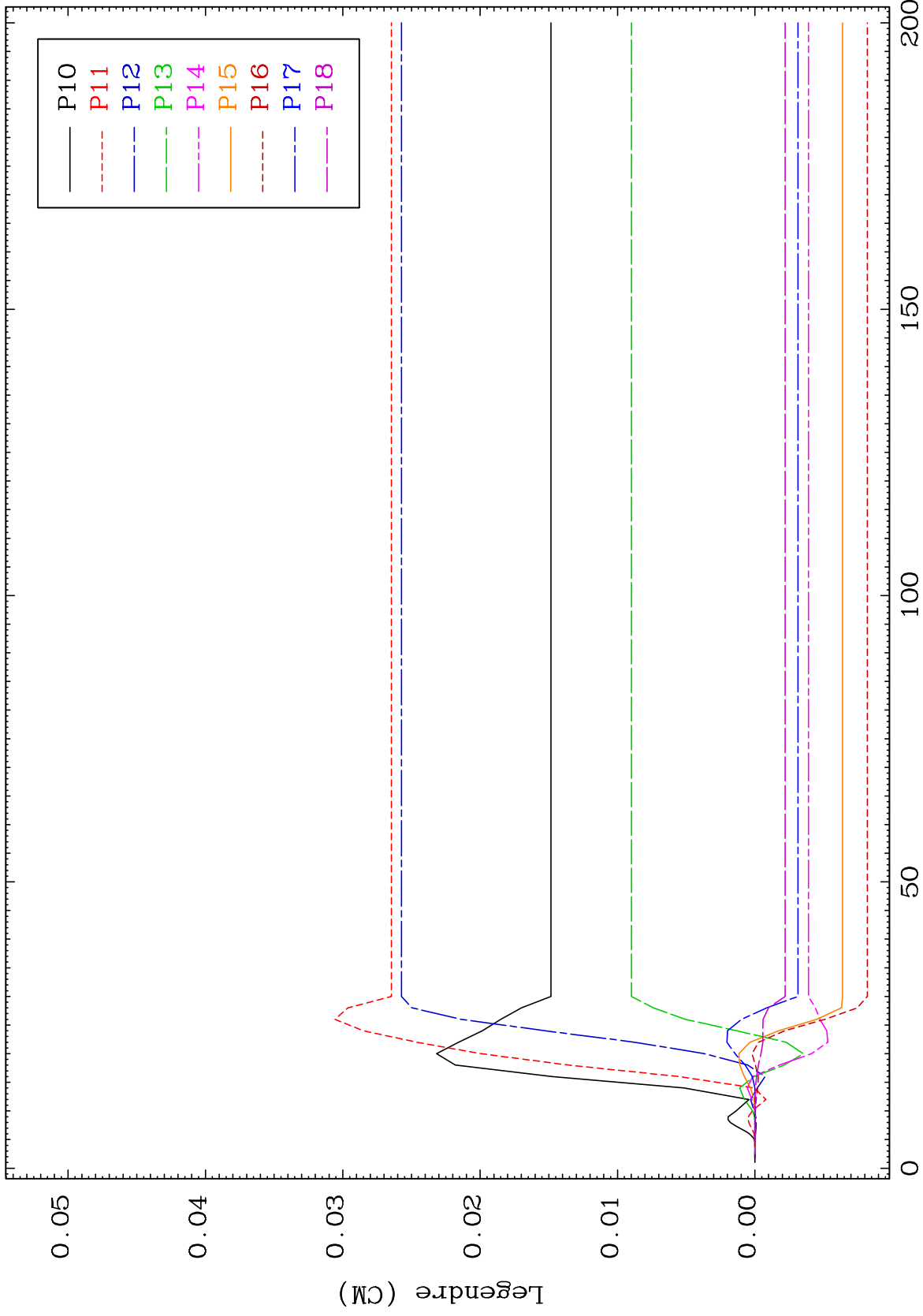
Incident Energy (MeV)

81-T1-193

MAT 8095

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

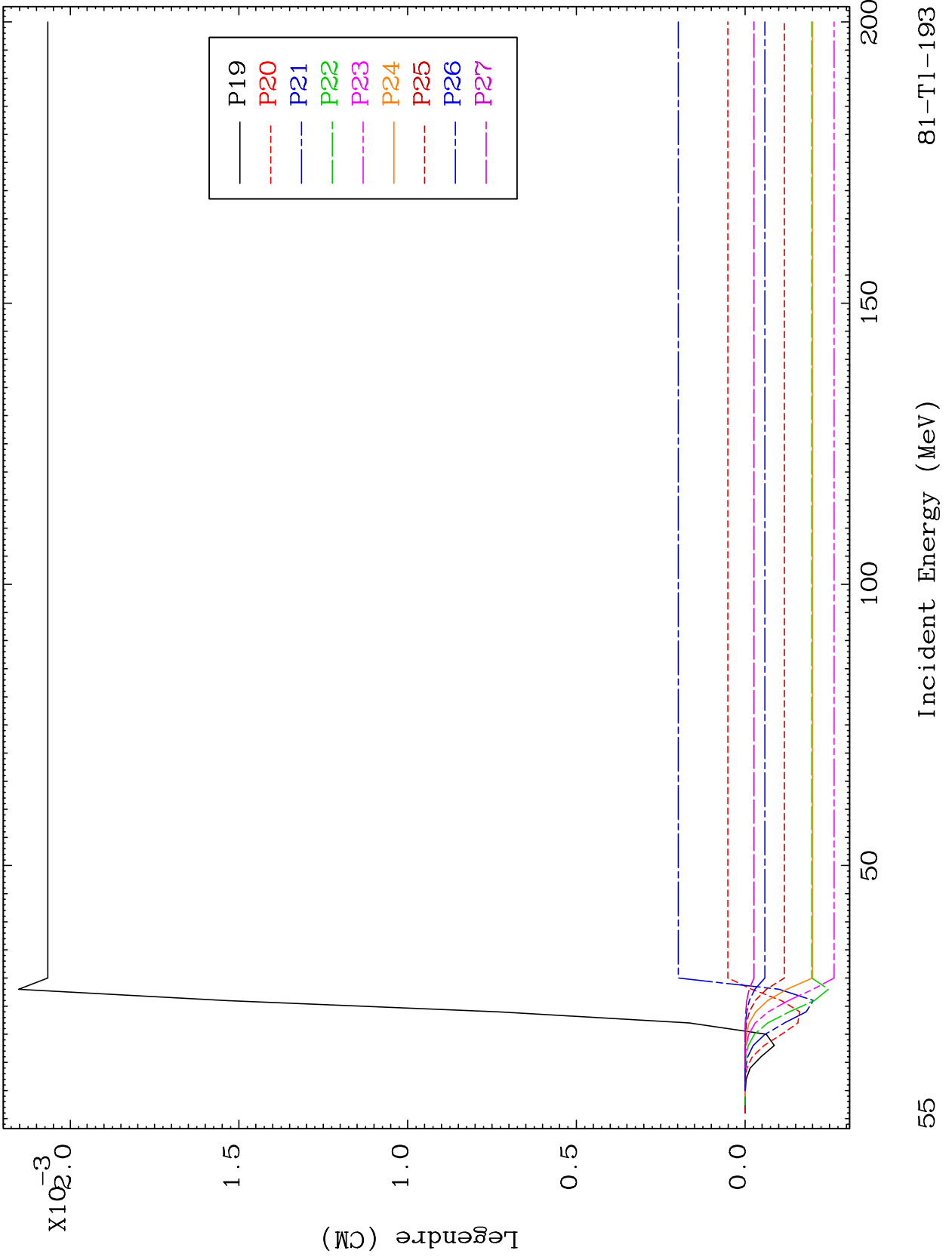
81-Tl-193



54

Incident Energy (MeV)

81-Tl-193

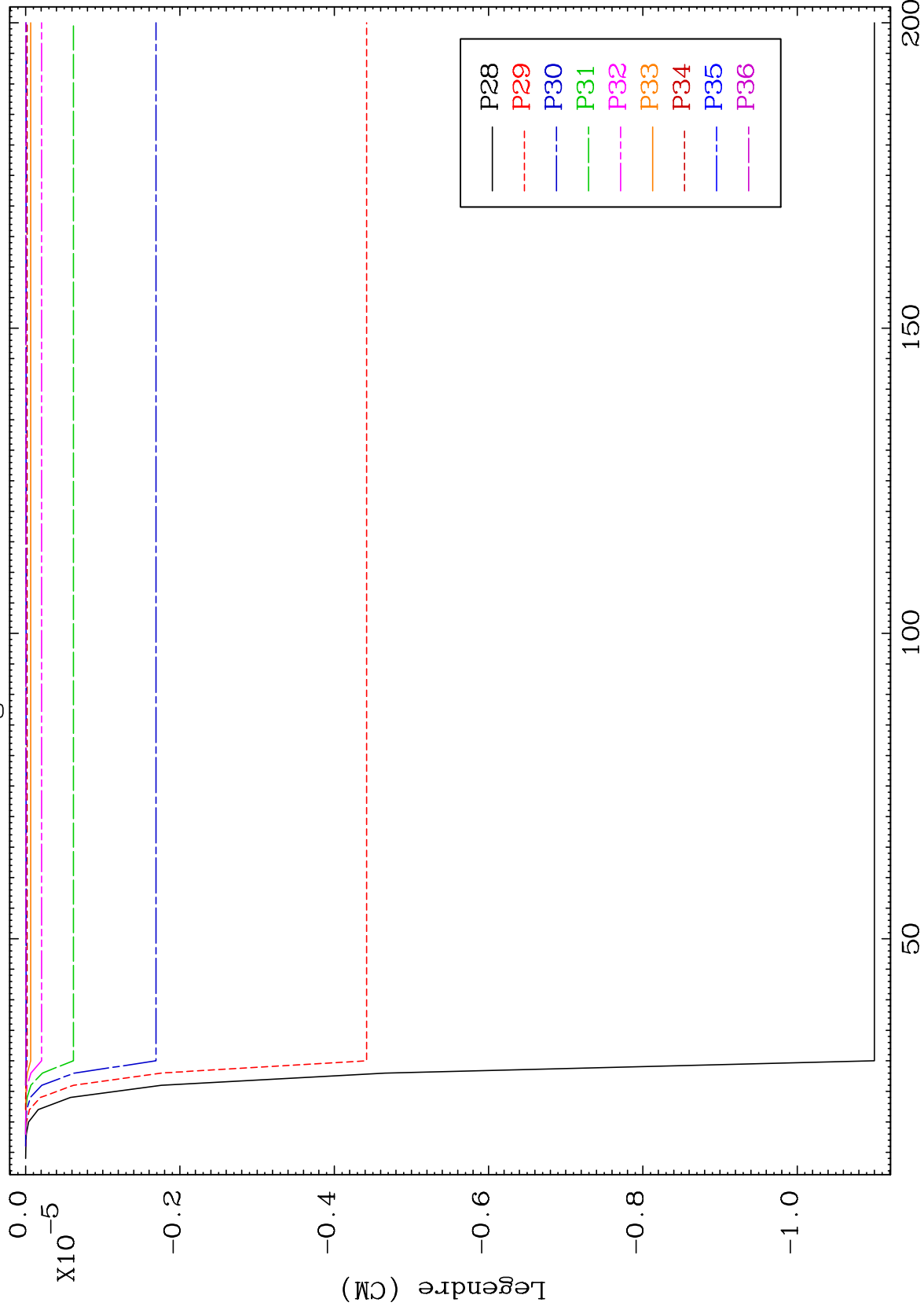


MAT 8095

MT= 59 (n,n') Level

81-Tl-193

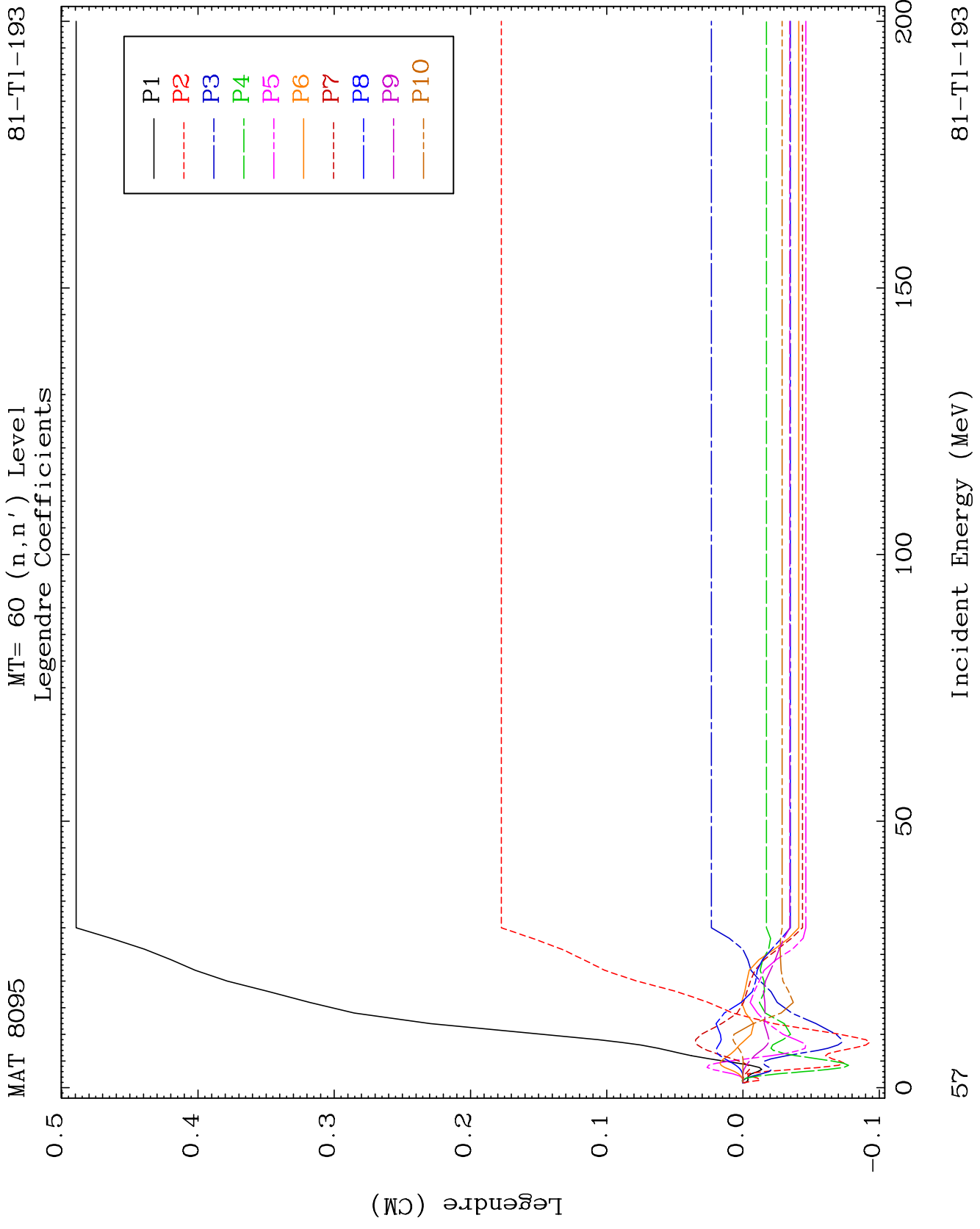
Legendre Coefficients



56

Incident Energy (MeV)

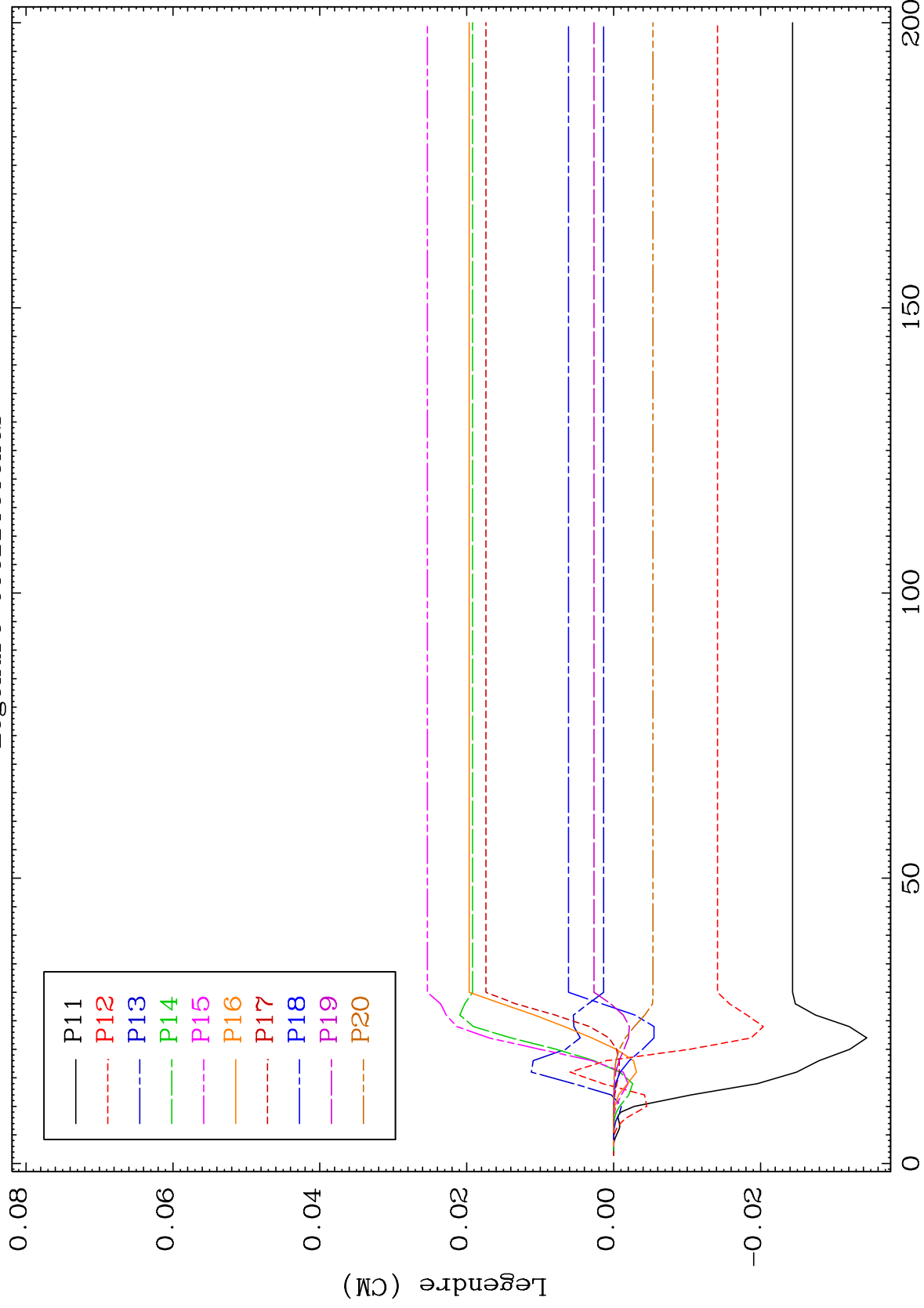
81-Tl-193



MAT 8095

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

81-Tl-193



58

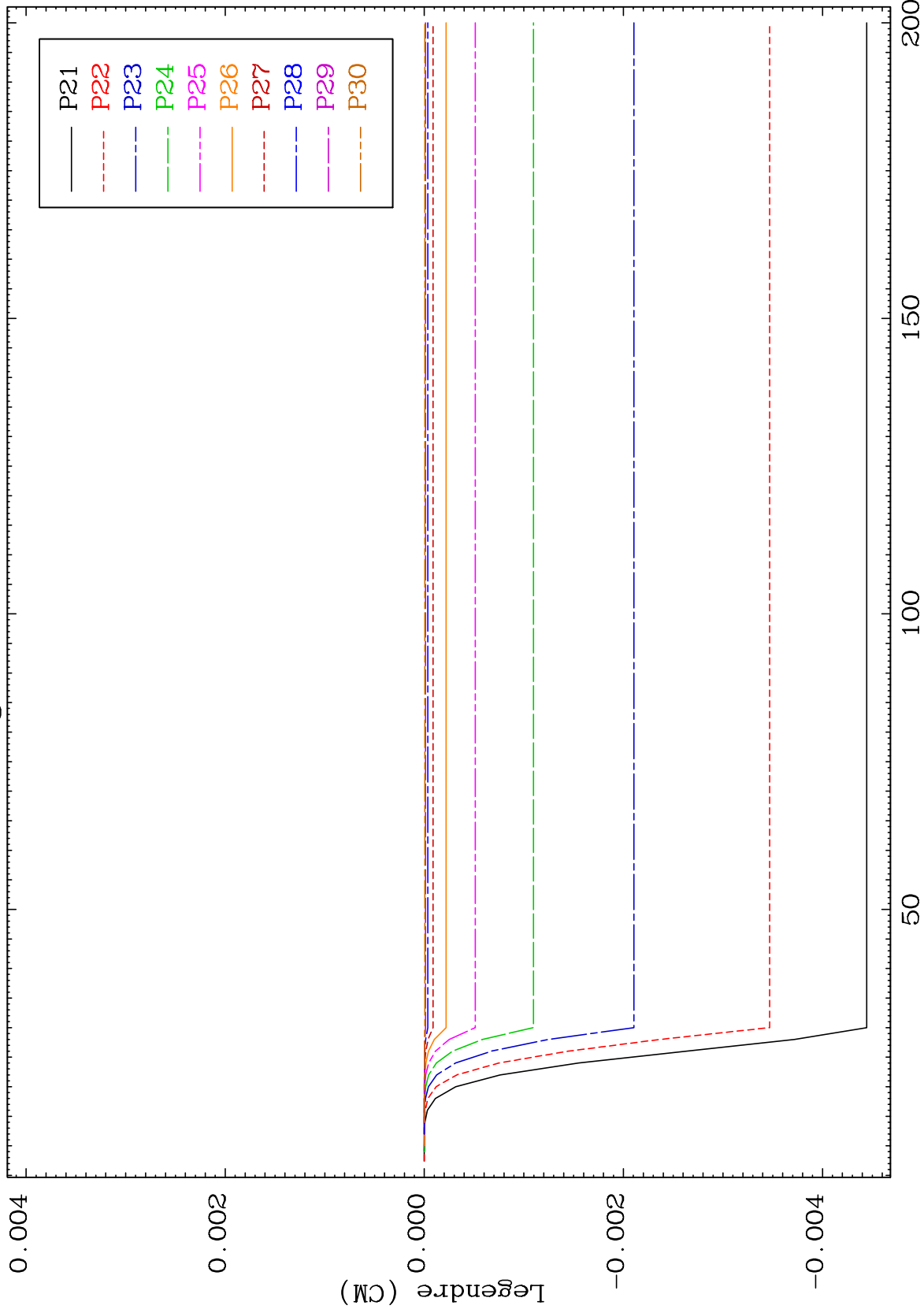
Incident Energy (MeV)

81-Tl-193

MAT 8095

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

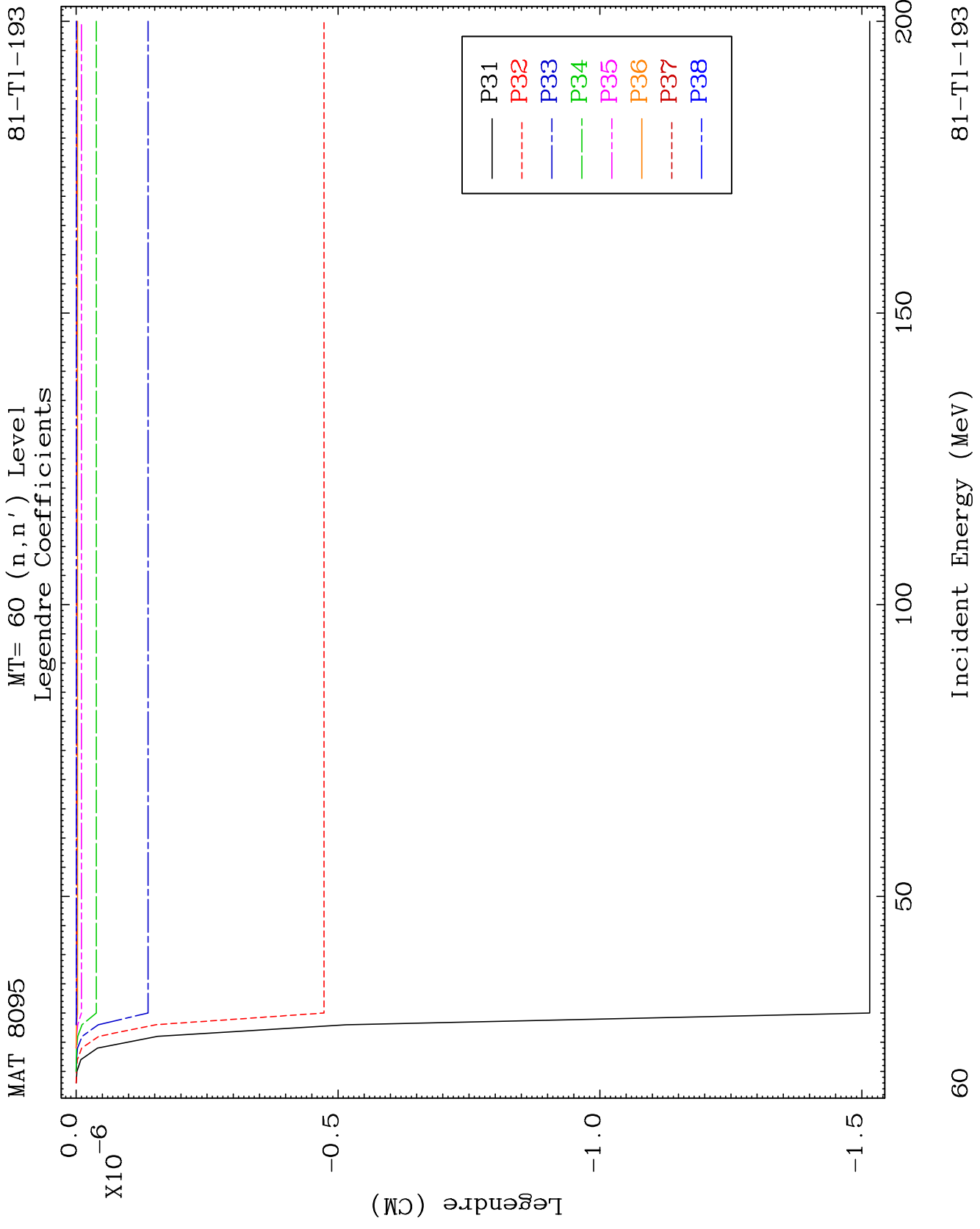
81-T1-193



59

Incident Energy (MeV)

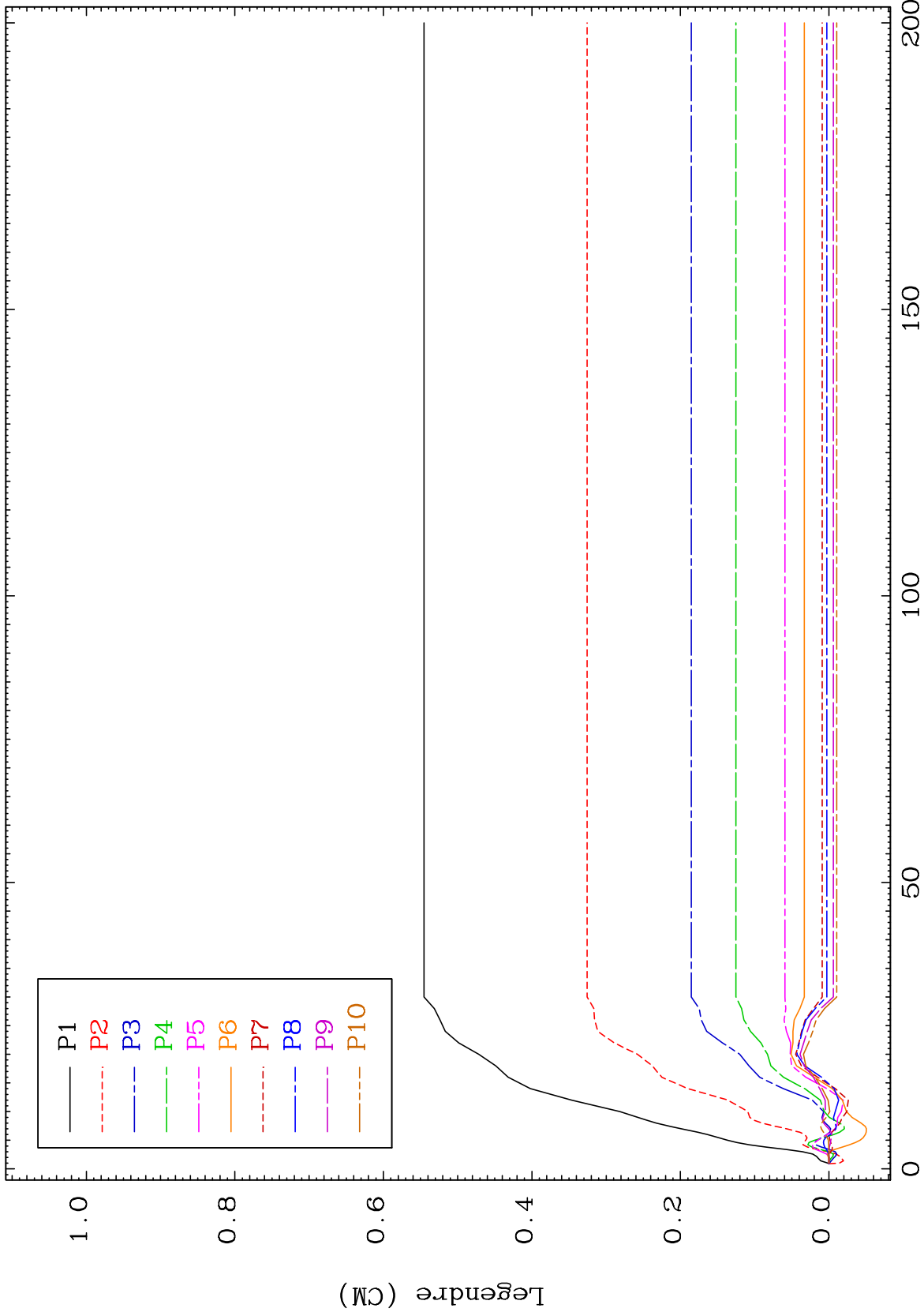
81-T1-193



MAT 8095

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

81-T1-193



61

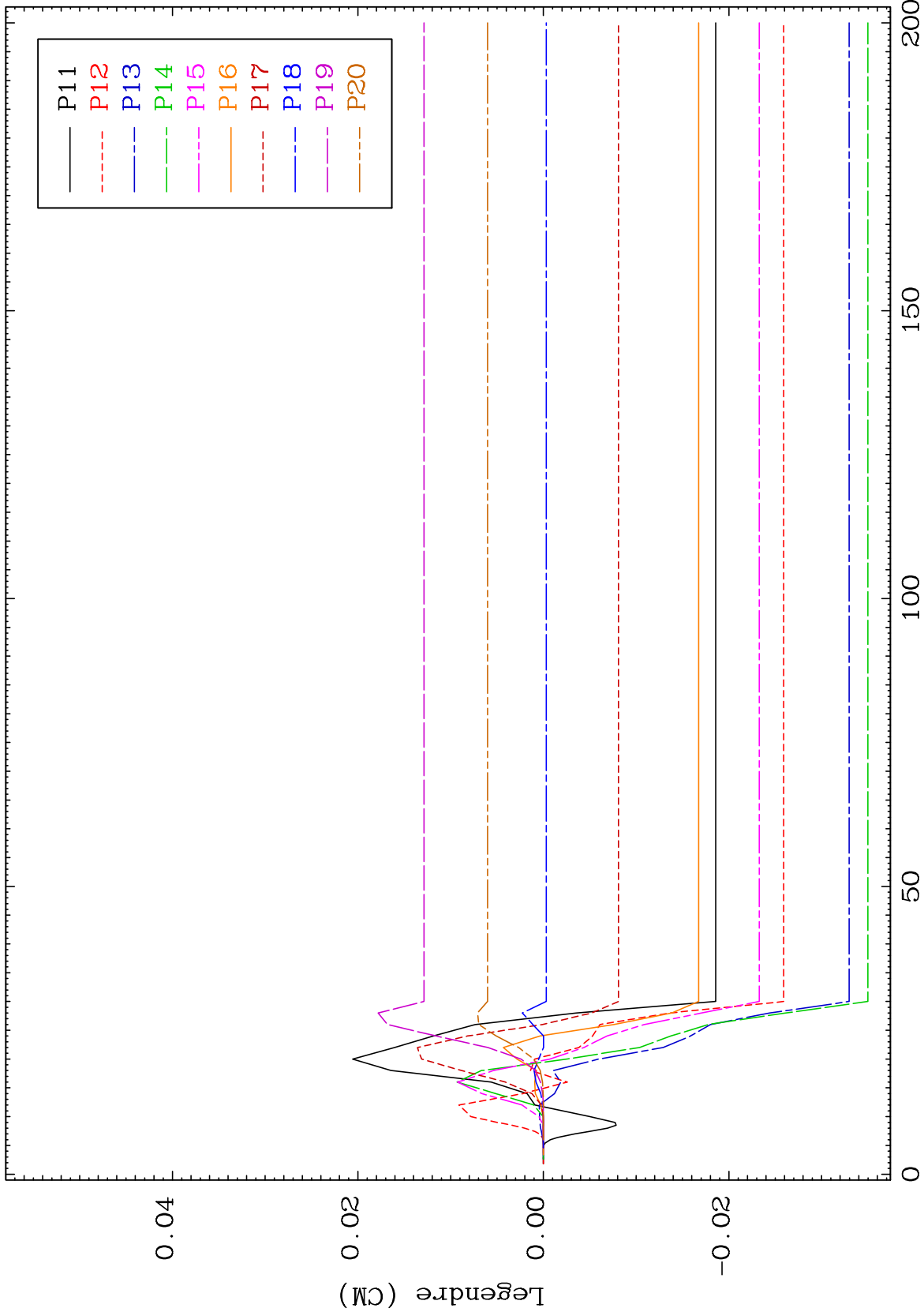
Incident Energy (MeV)

81-T1-193

MAT 8095

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

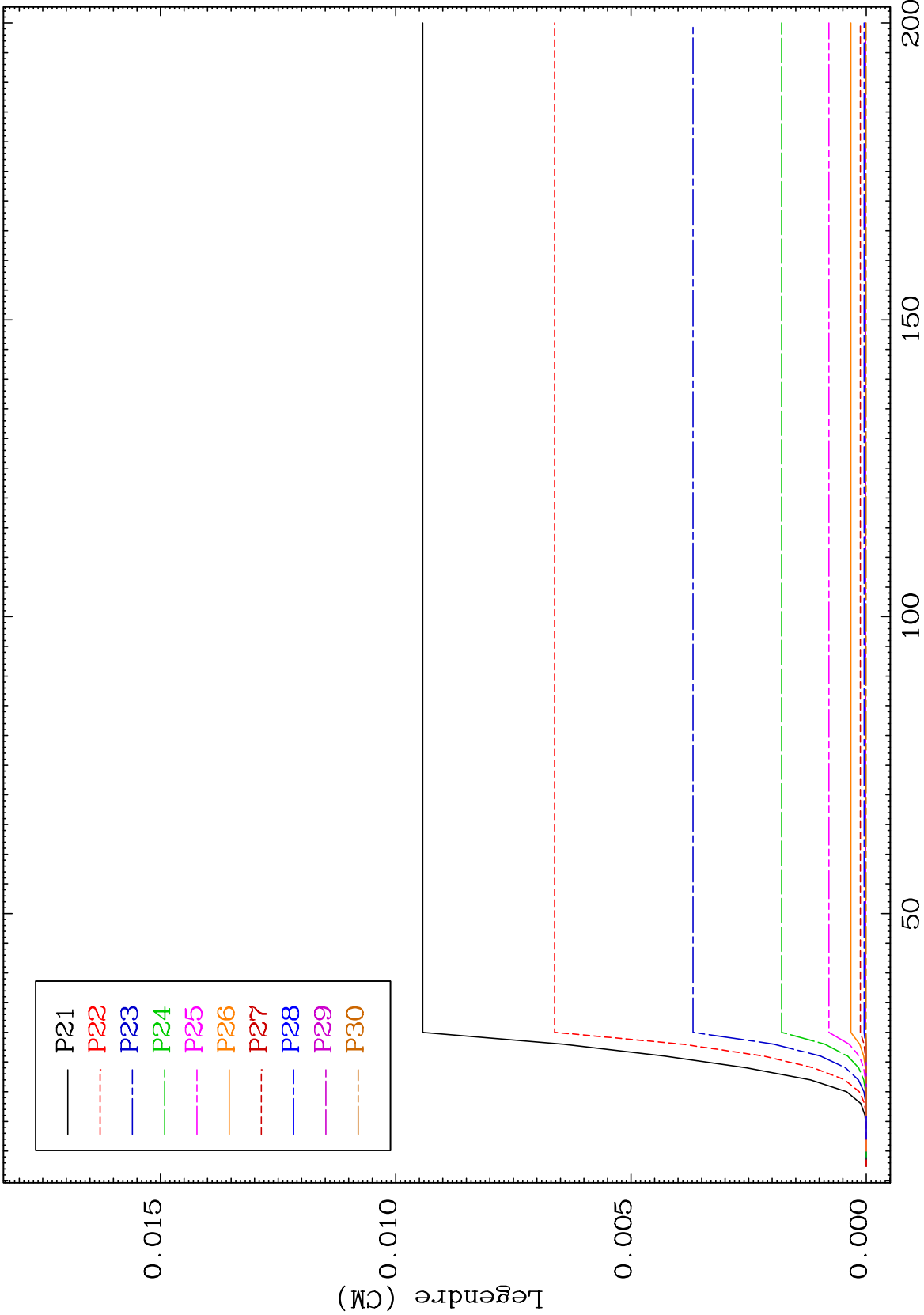
81-Tl-193



62

Incident Energy (MeV)

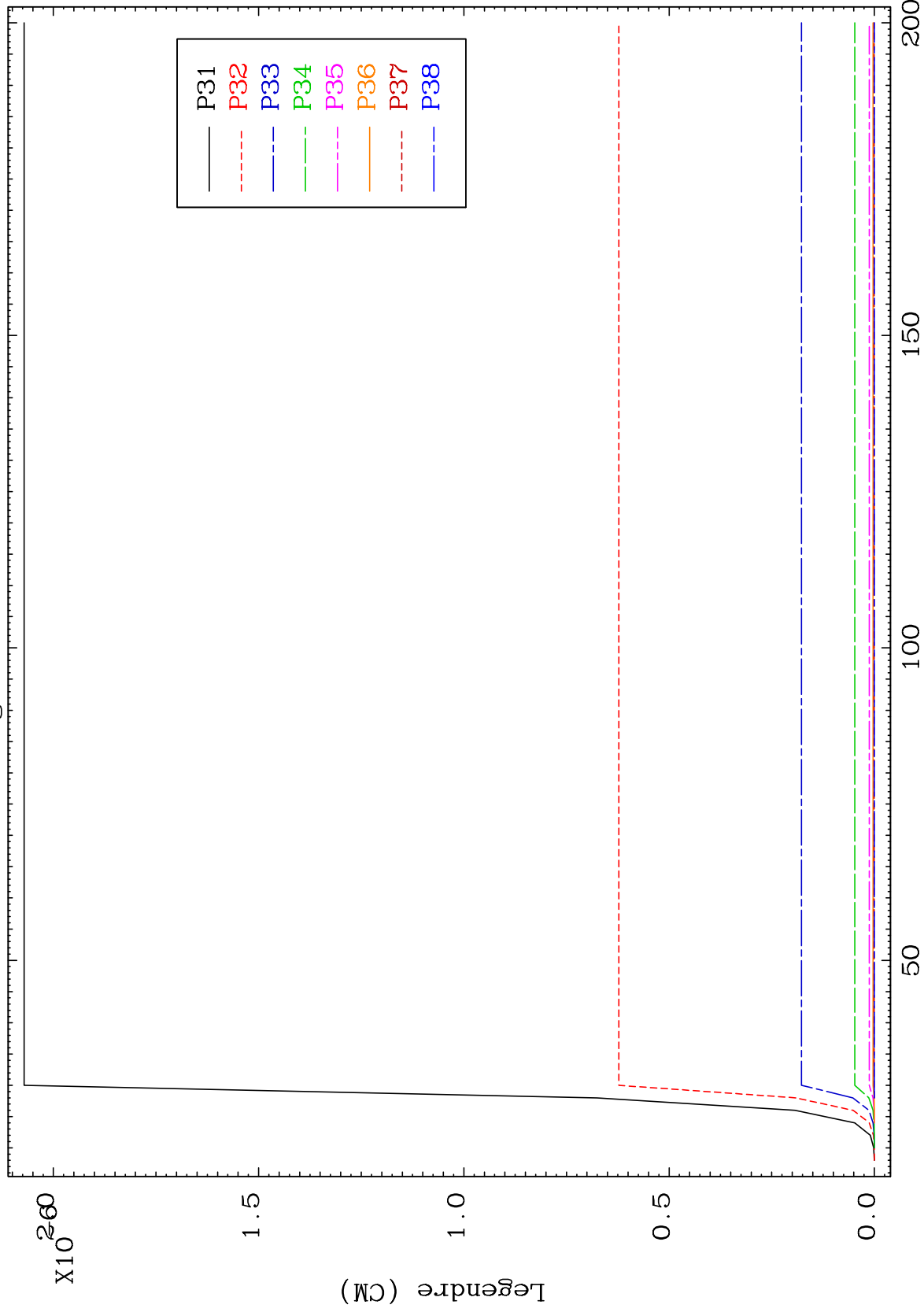
81-Tl-193



MAT 8095

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

81-T1-193



64

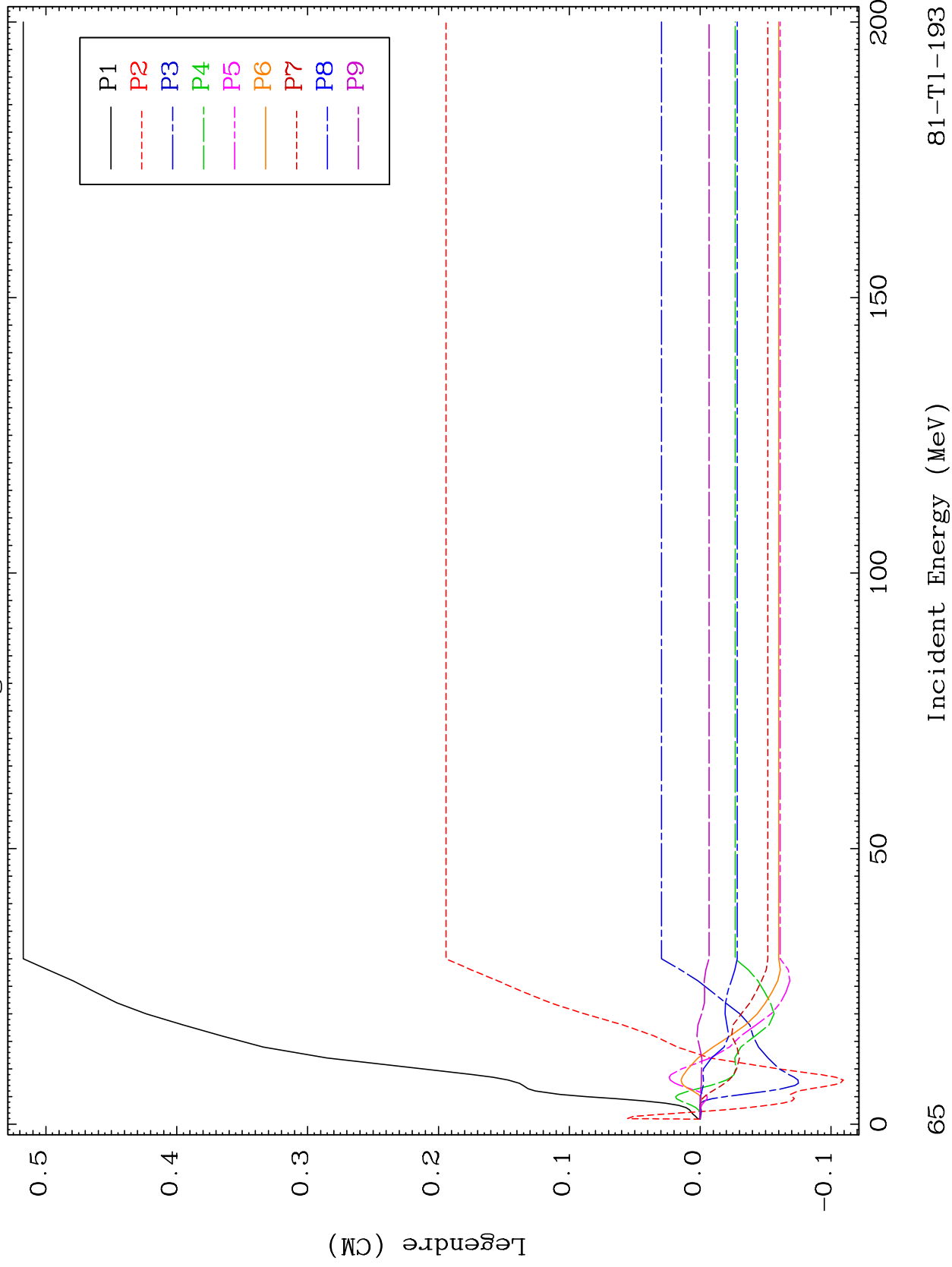
Incident Energy (MeV)

81-T1-193

MAT 8095

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

81-T1-193



81-T1-193

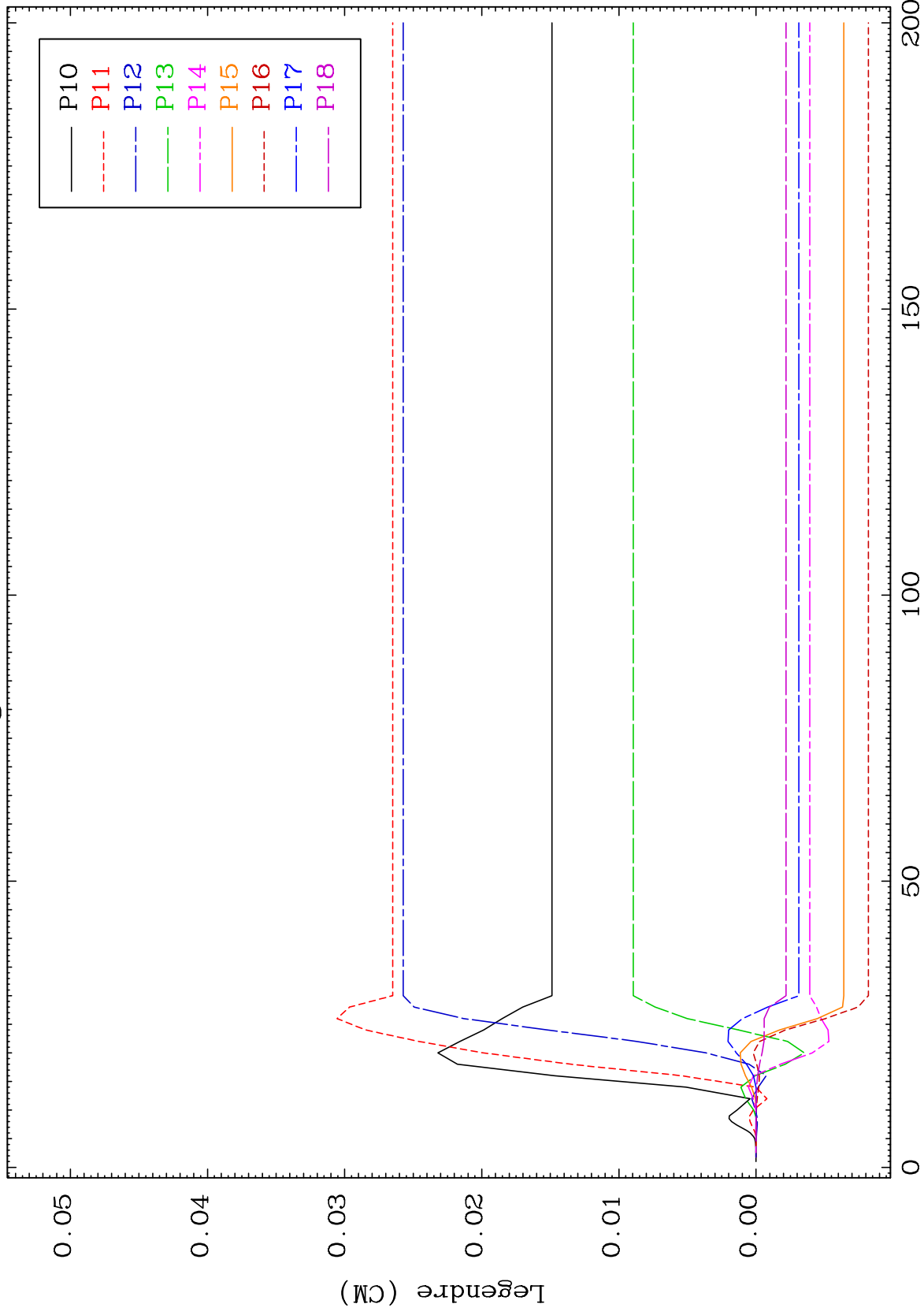
Incident Energy (MeV)

65

MAT 8095

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

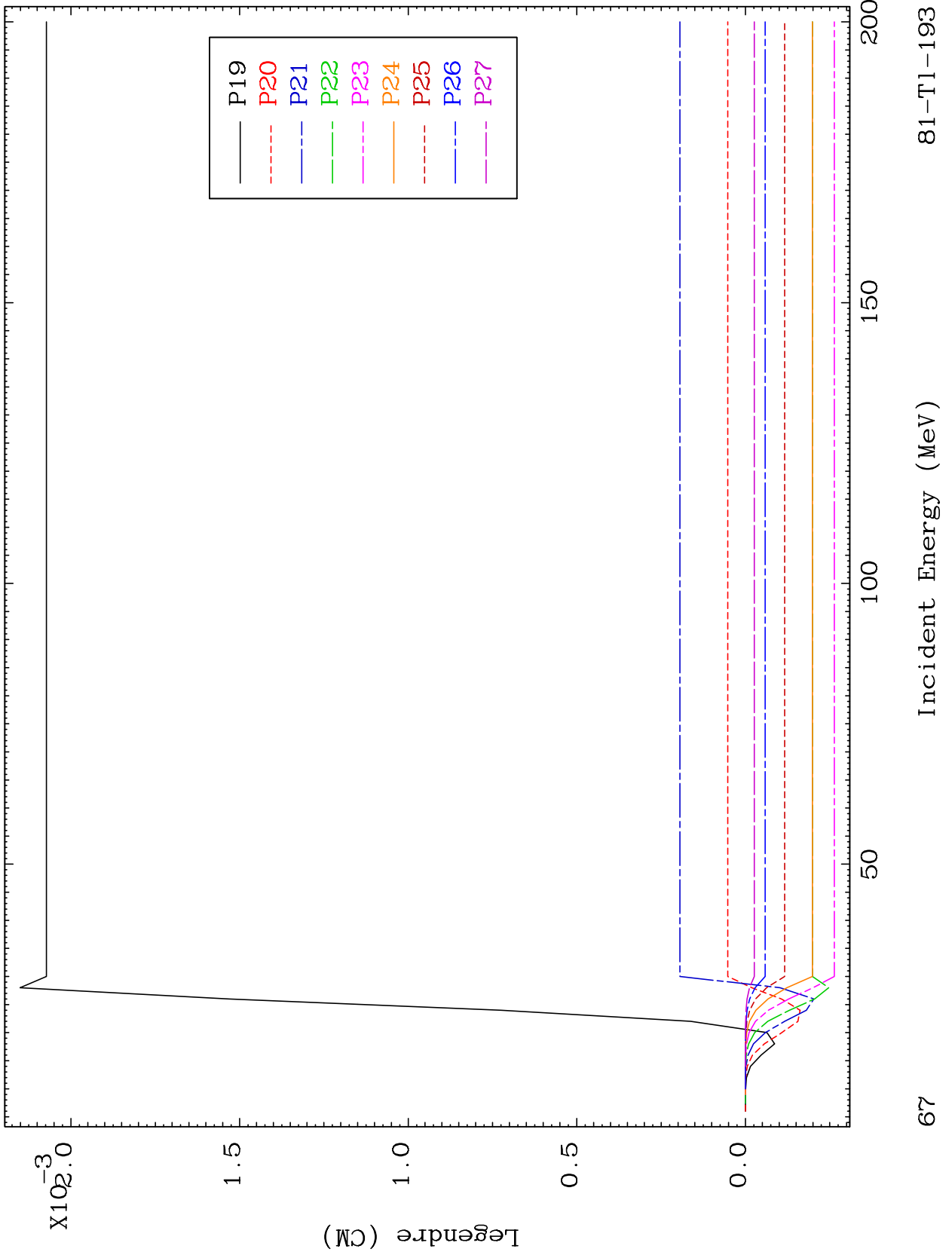
81-Tl-193



66

Incident Energy (MeV)

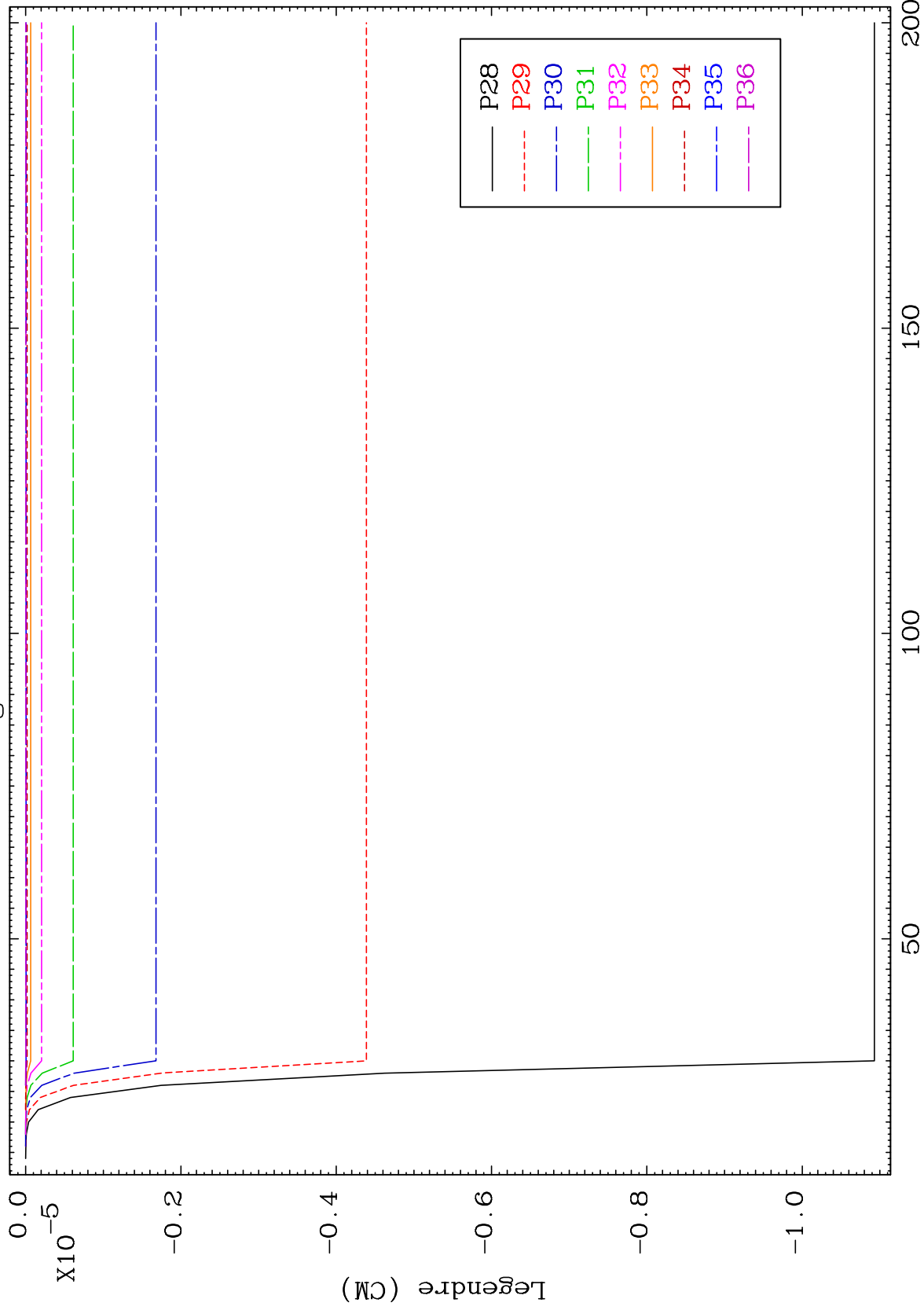
81-Tl-193



MAT 8095

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

81-Tl-193



68

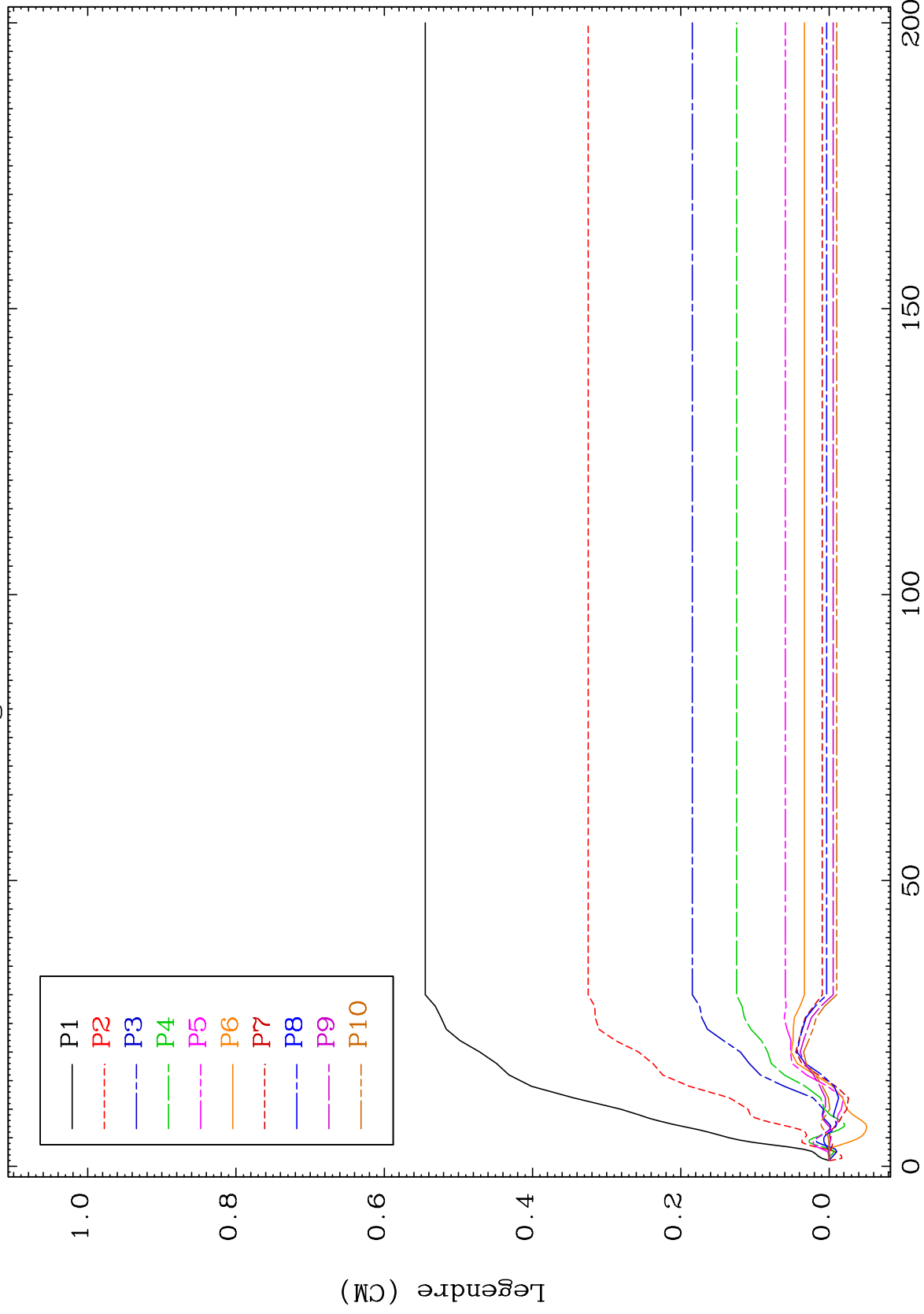
Incident Energy (MeV)

81-Tl-193

MAT 8095

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

81-T1-193



69

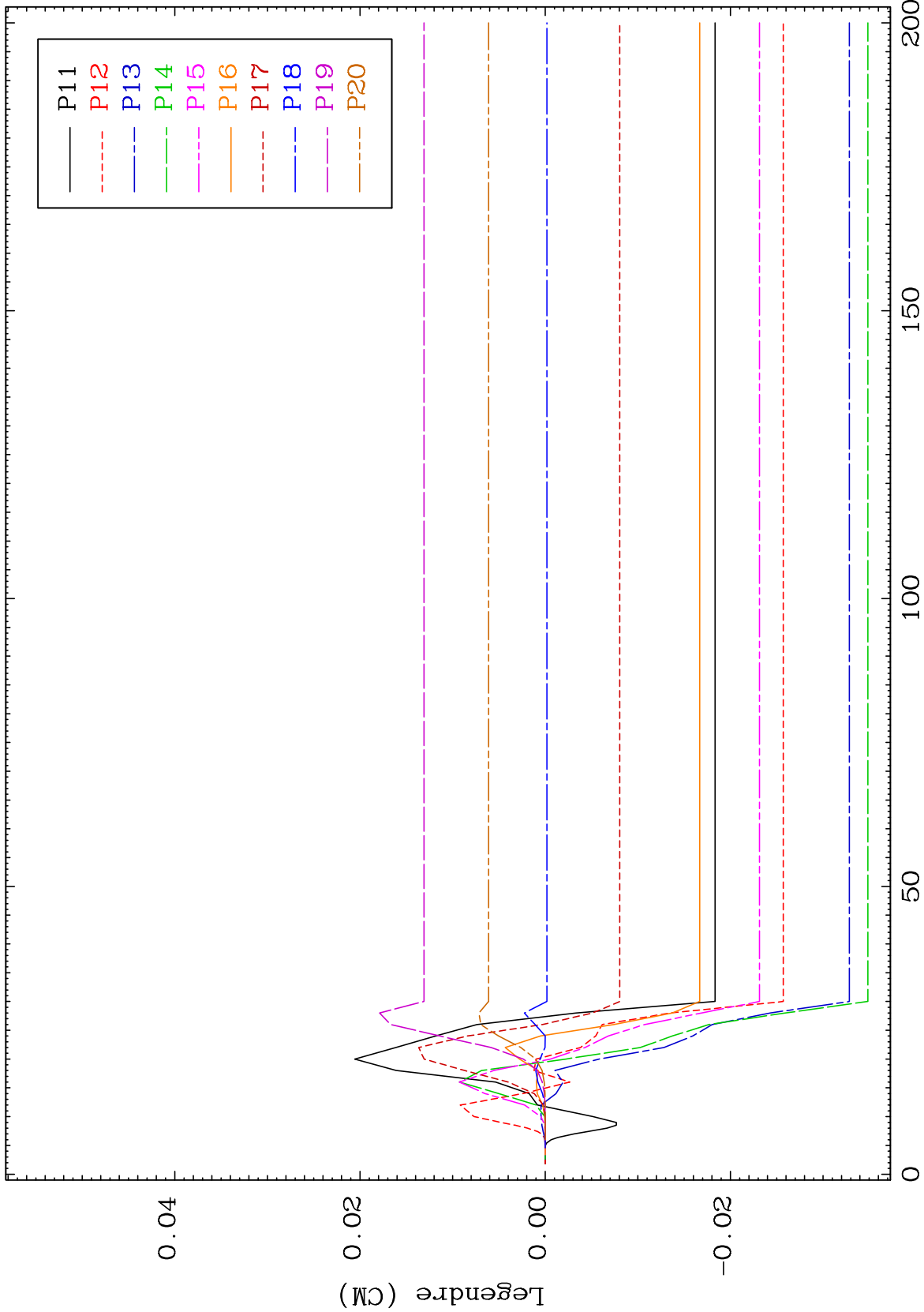
Incident Energy (MeV)

81-T1-193

MAT 8095

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

81-T1-193



70

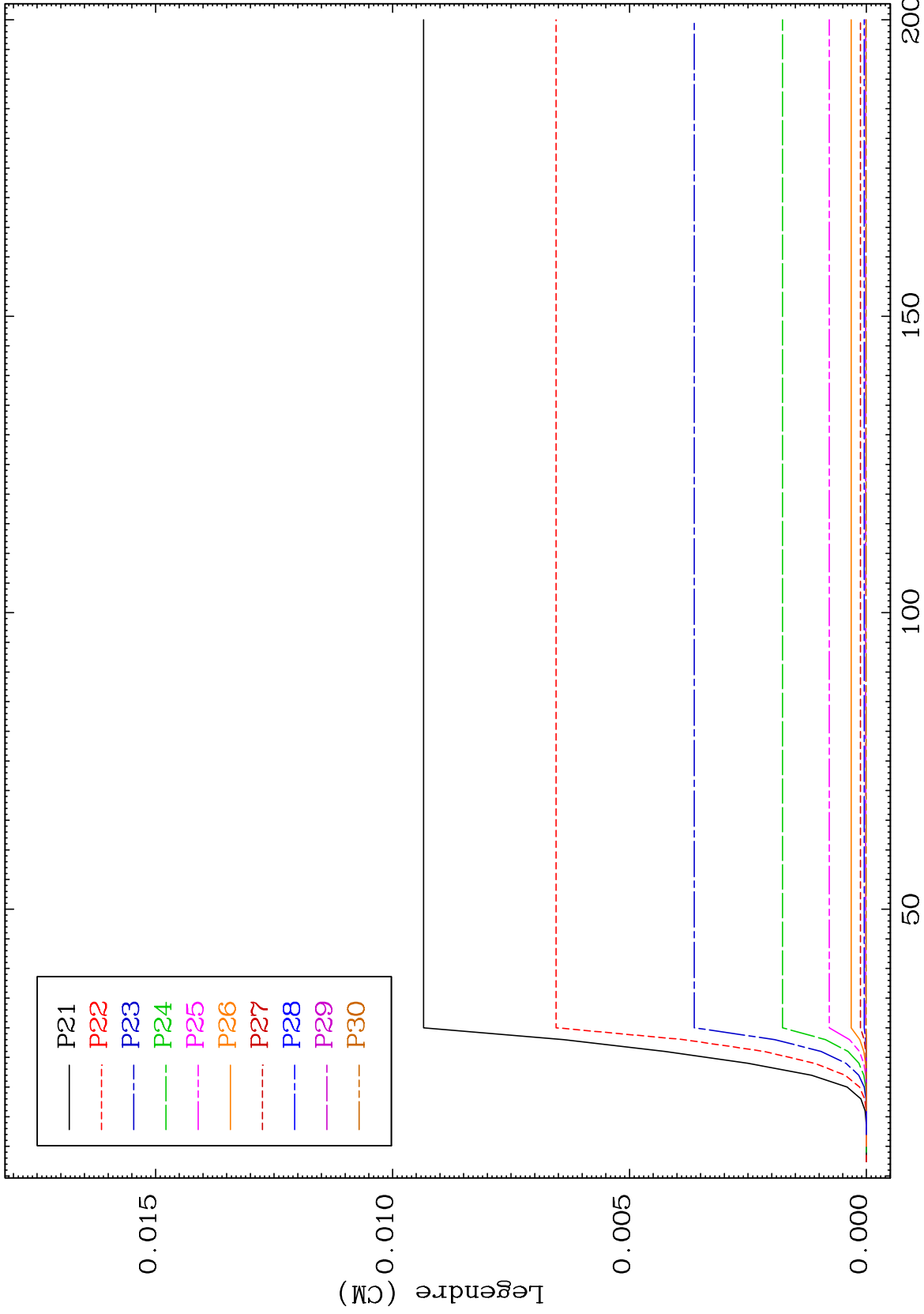
Incident Energy (MeV)

81-T1-193

MAT 8095

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

81-Tl-193



71

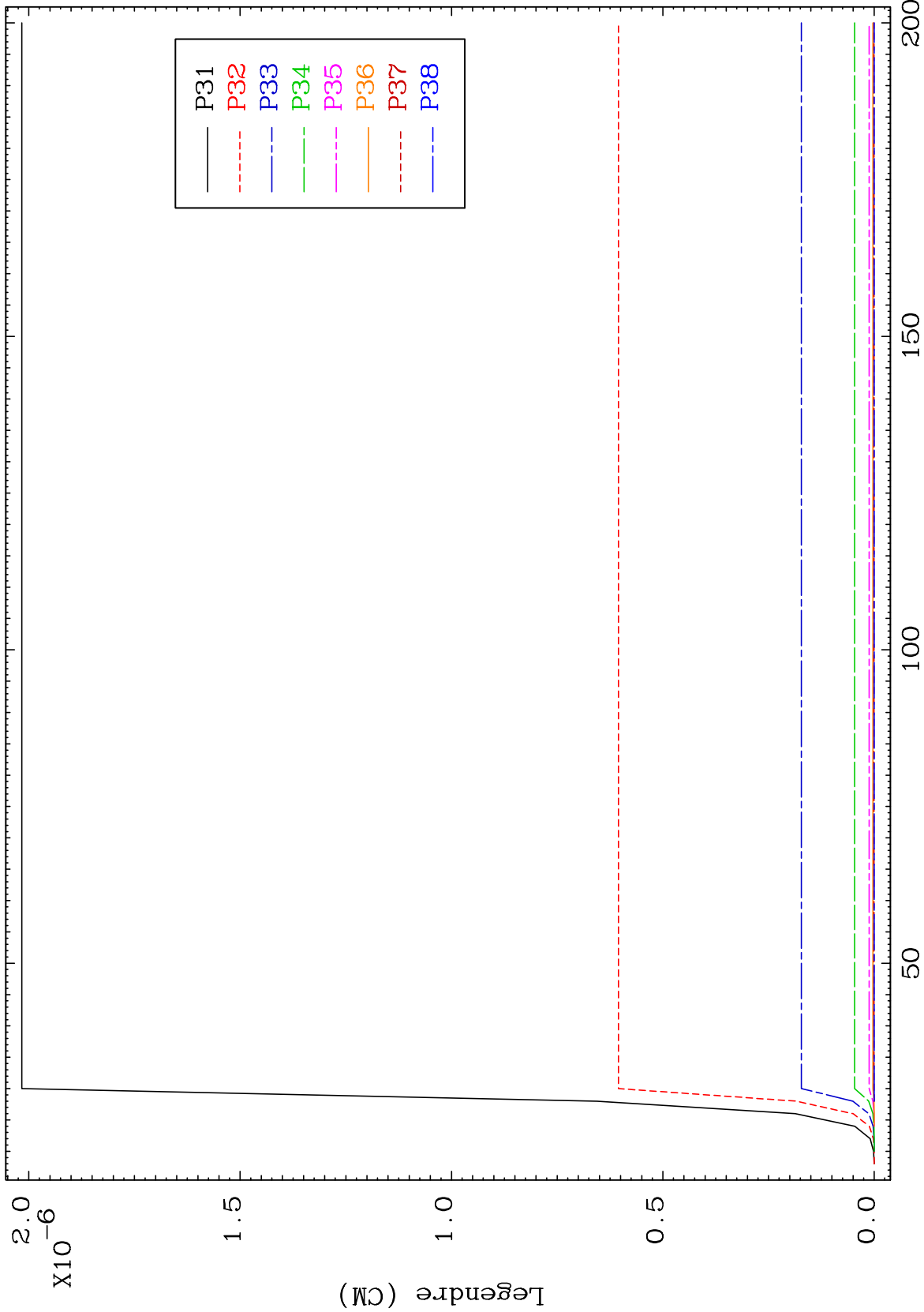
Incident Energy (MeV)

81-Tl-193

MAT 8095

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

81-T1-193



72

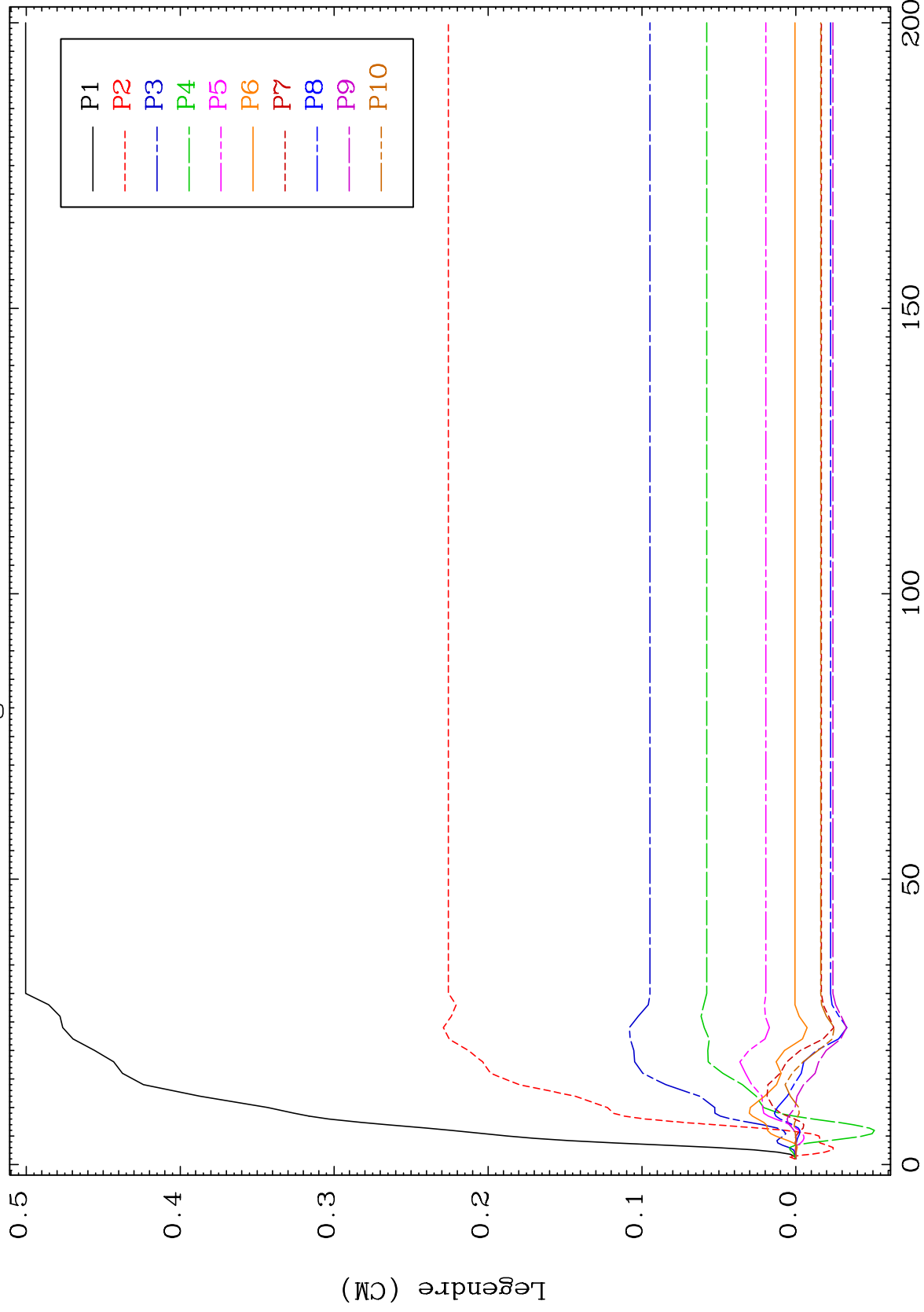
Incident Energy (MeV)

81-T1-193

MAT 8095

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

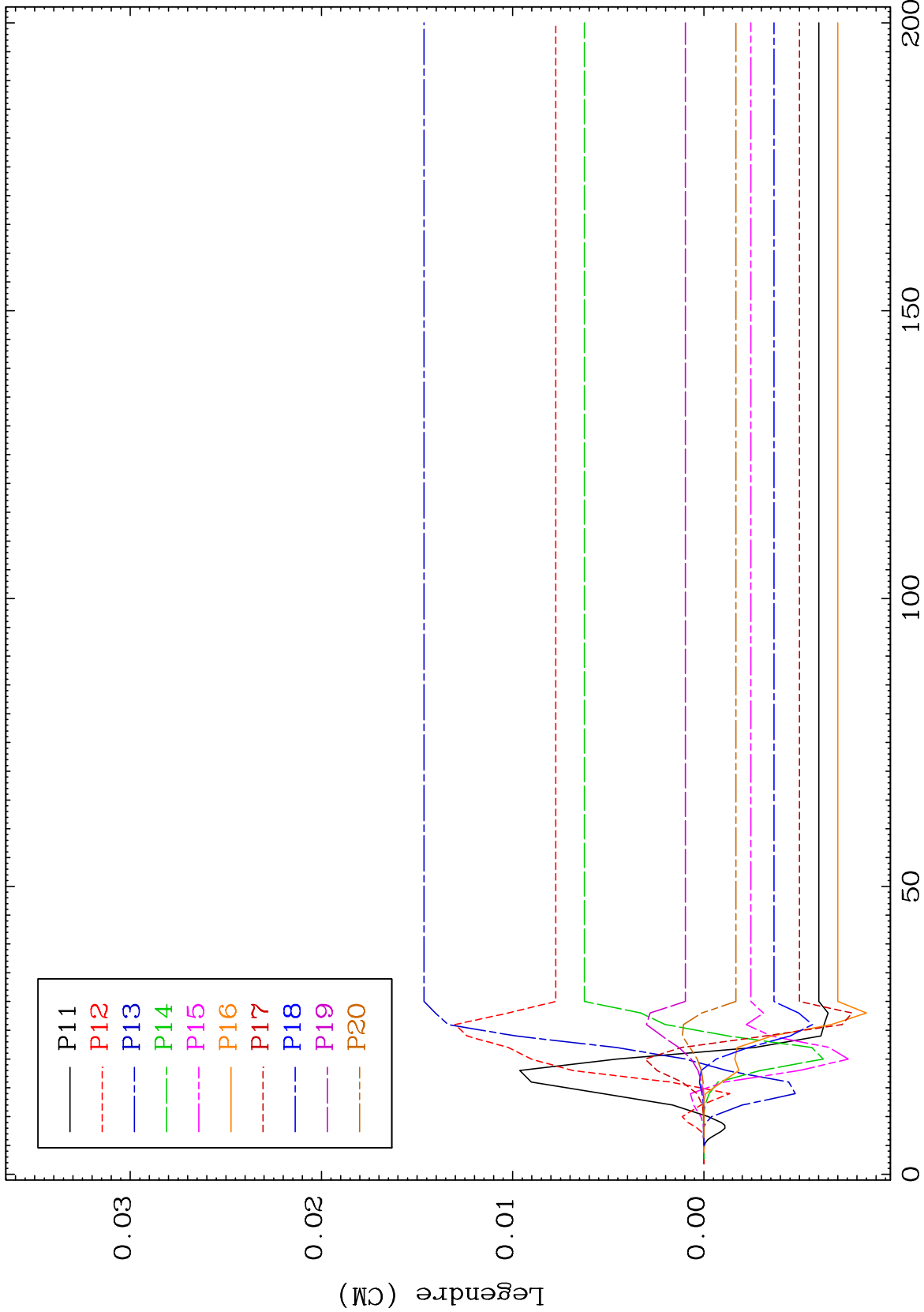
81-T1-193

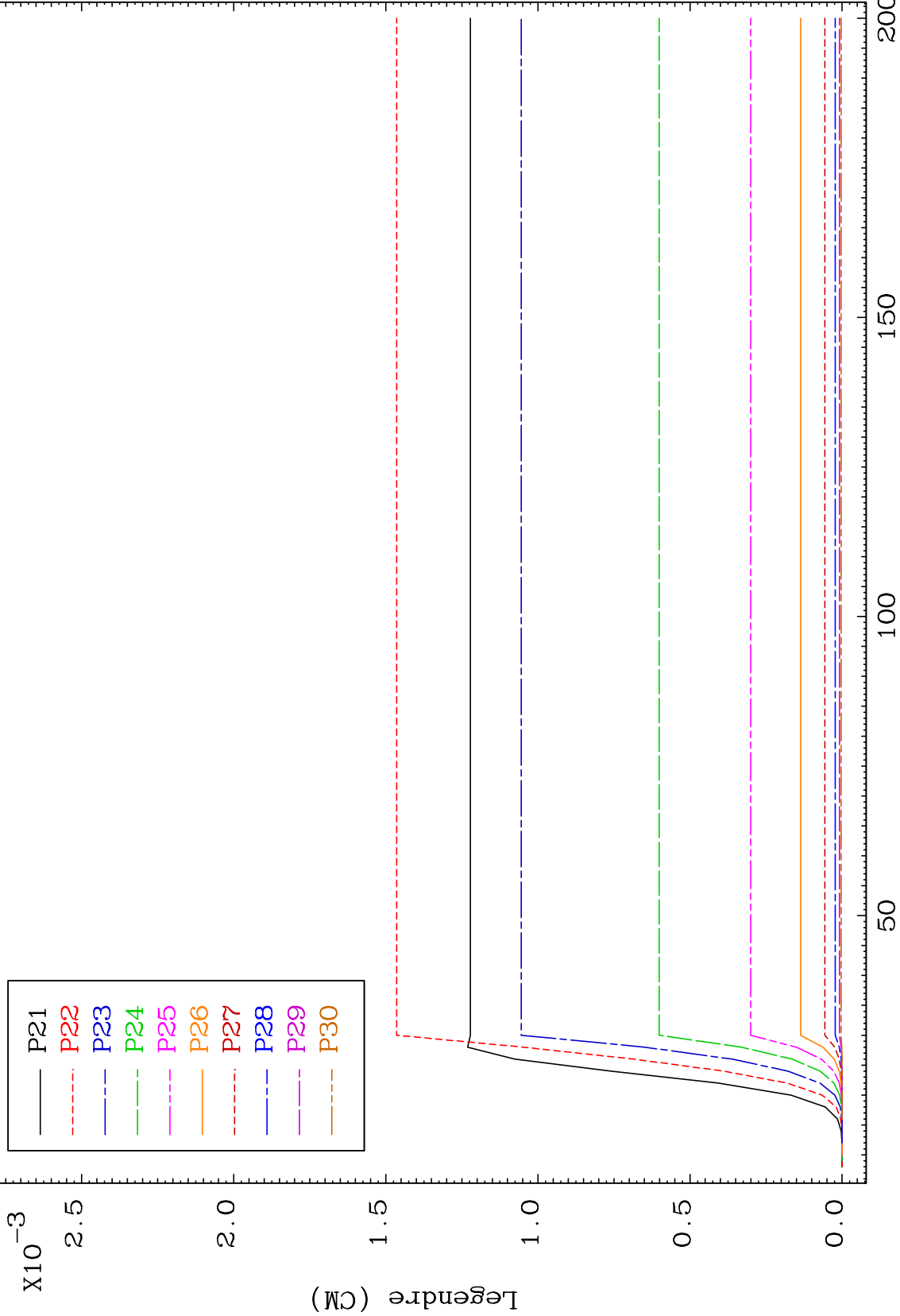
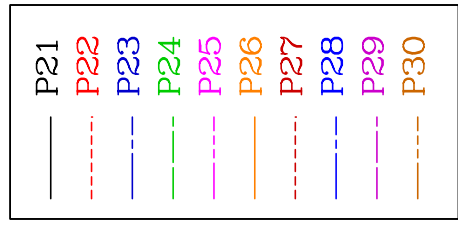


73

Incident Energy (MeV)

81-T1-193

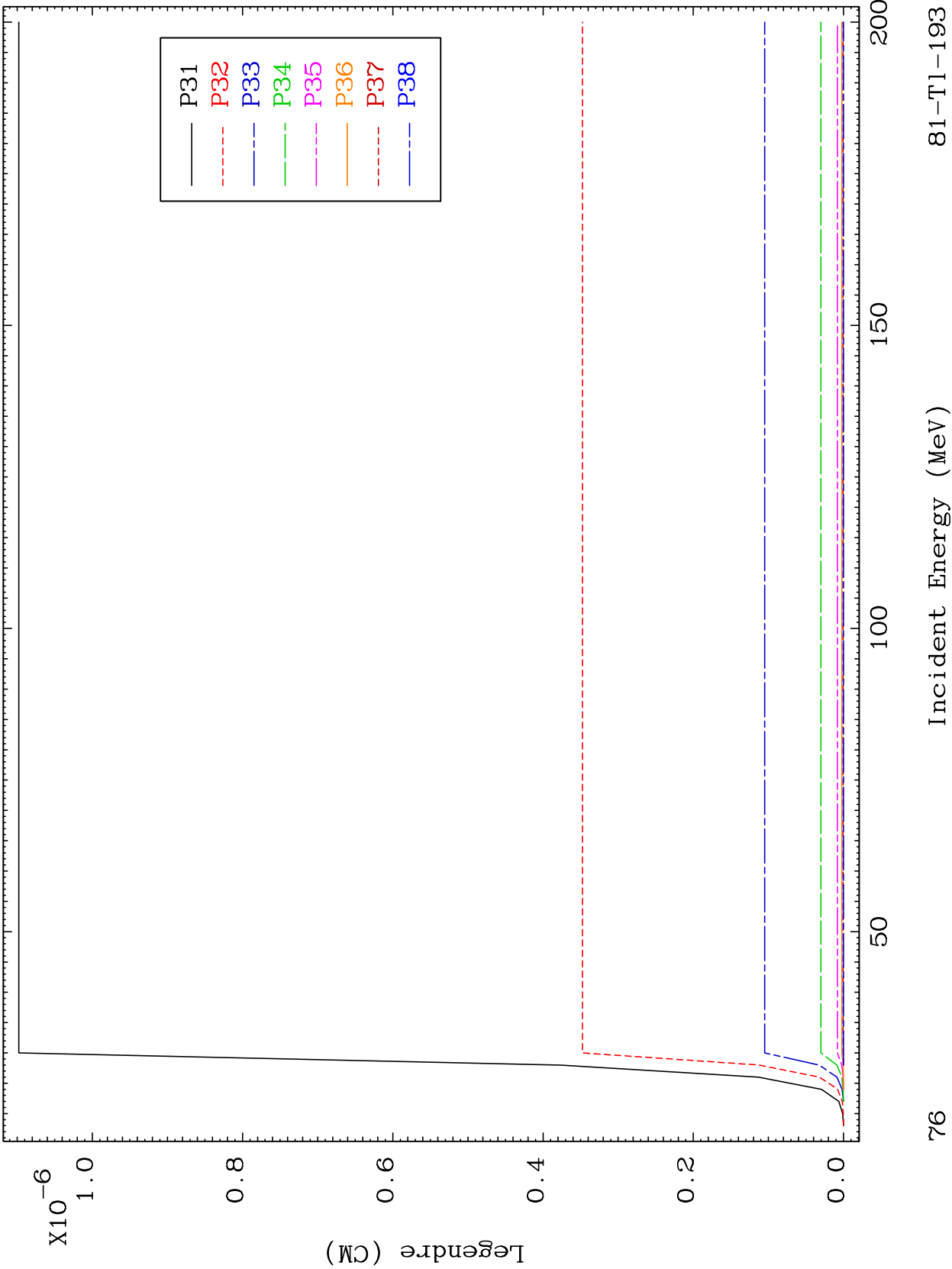




MAT 8095

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

81-Tl-193



76

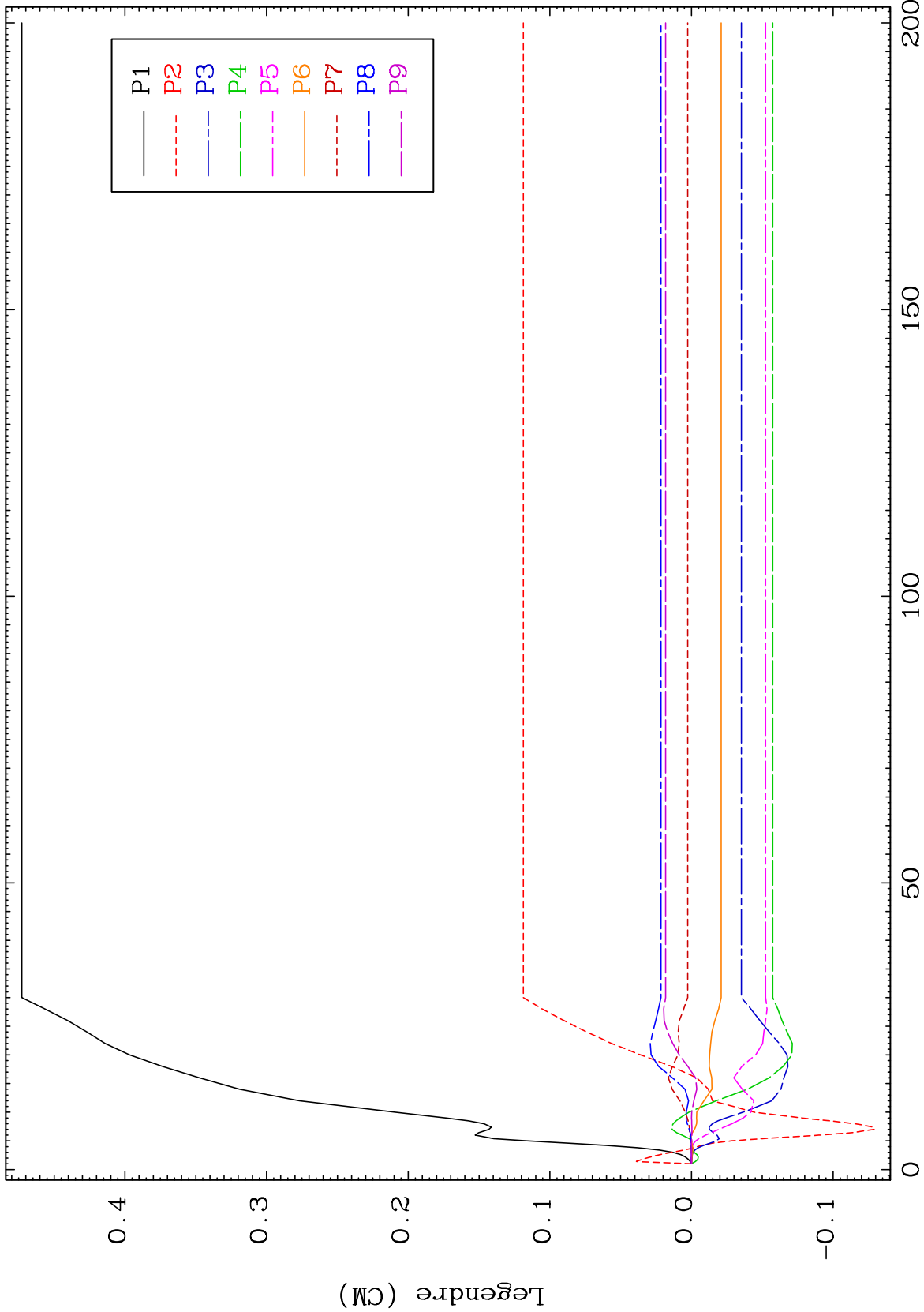
Incident Energy (MeV)

81-Tl-193

MAT 8095

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

81-T1-193



77

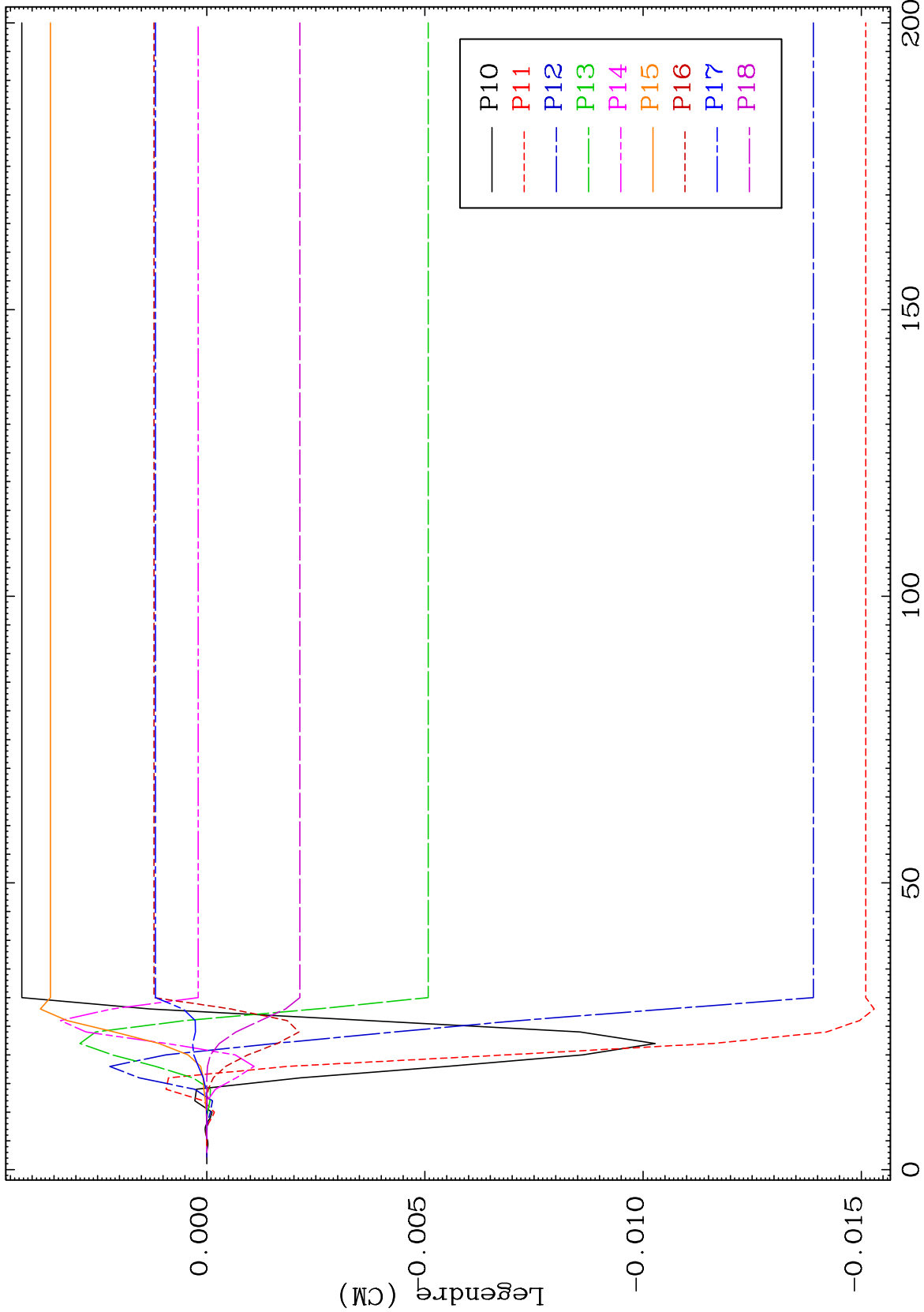
Incident Energy (MeV)

81-T1-193

MAT 8095

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

81-T1-193



78

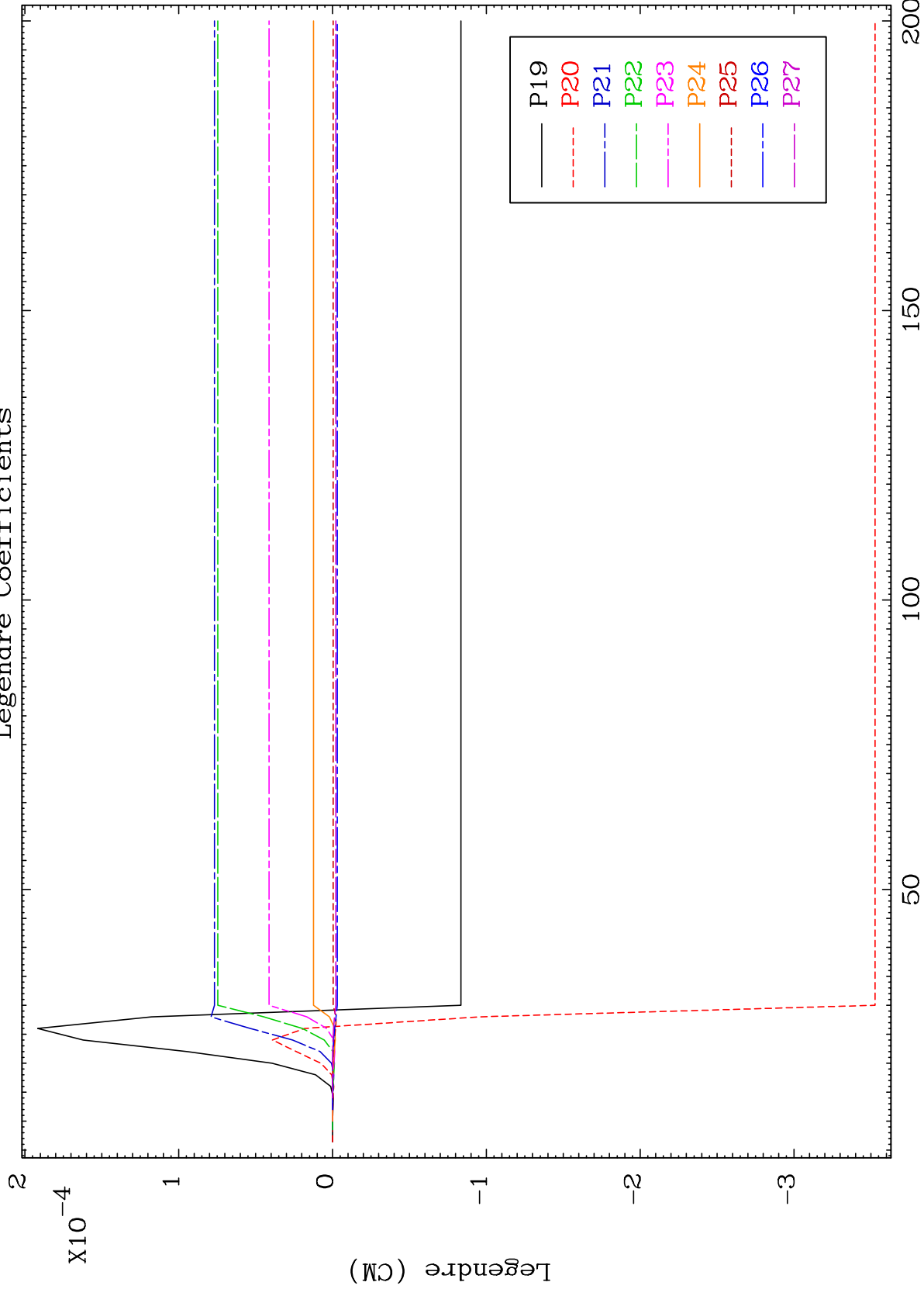
Incident Energy (MeV)

81-T1-193

MAT 8095

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

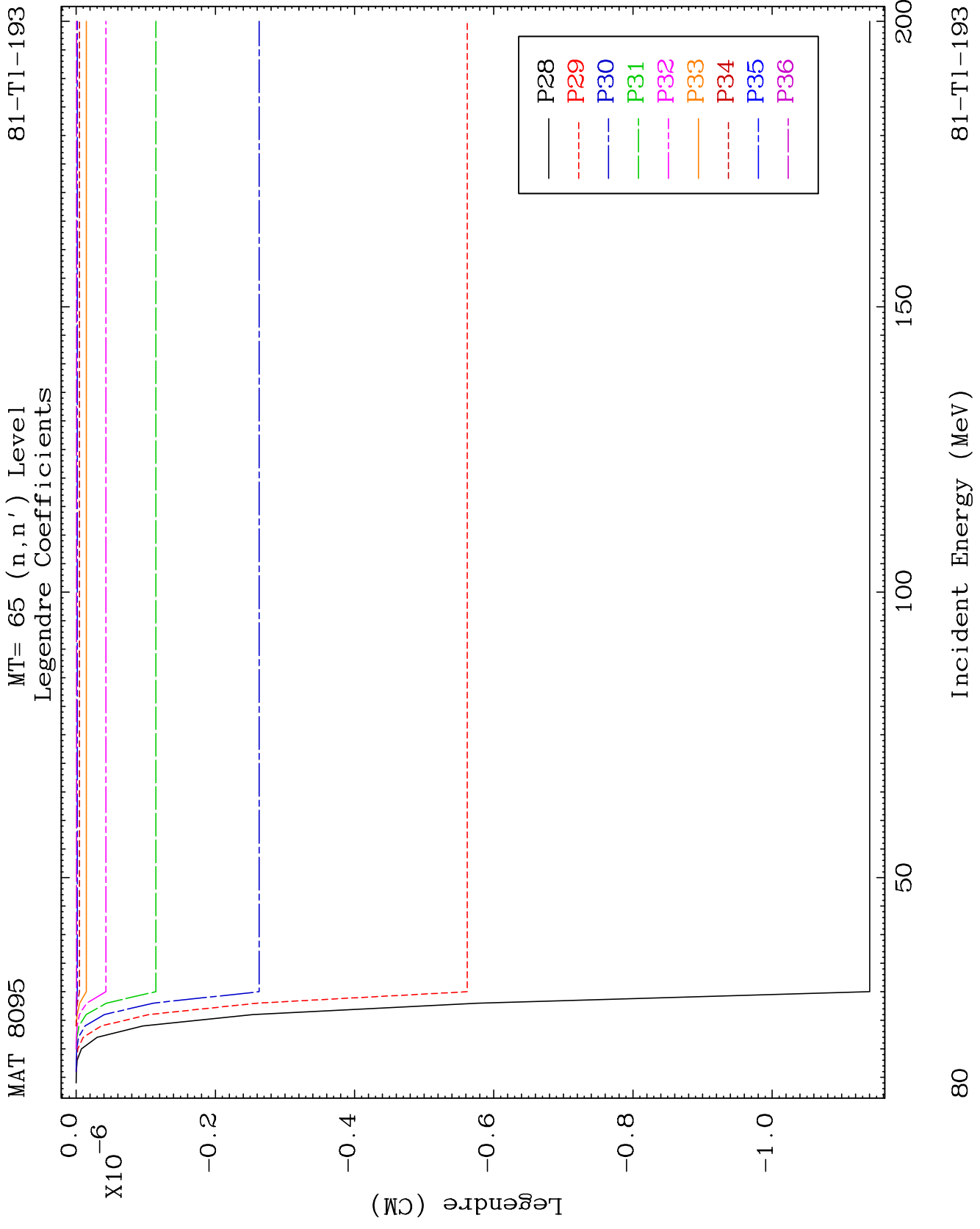
81-Tl-193



79

Incident Energy (MeV)

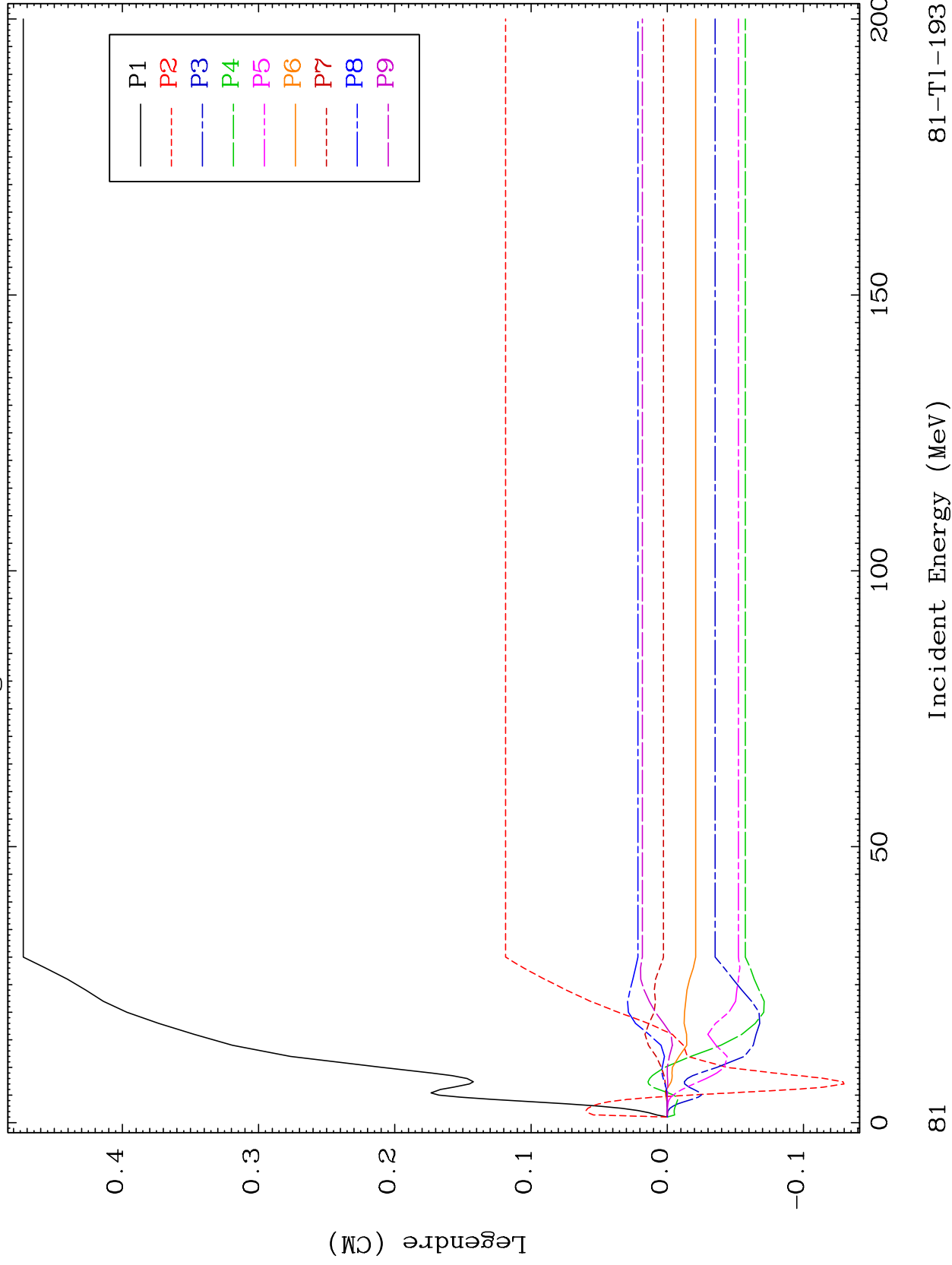
81-Tl-193



MAT 8095

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

81-T1-193



81-T1-193

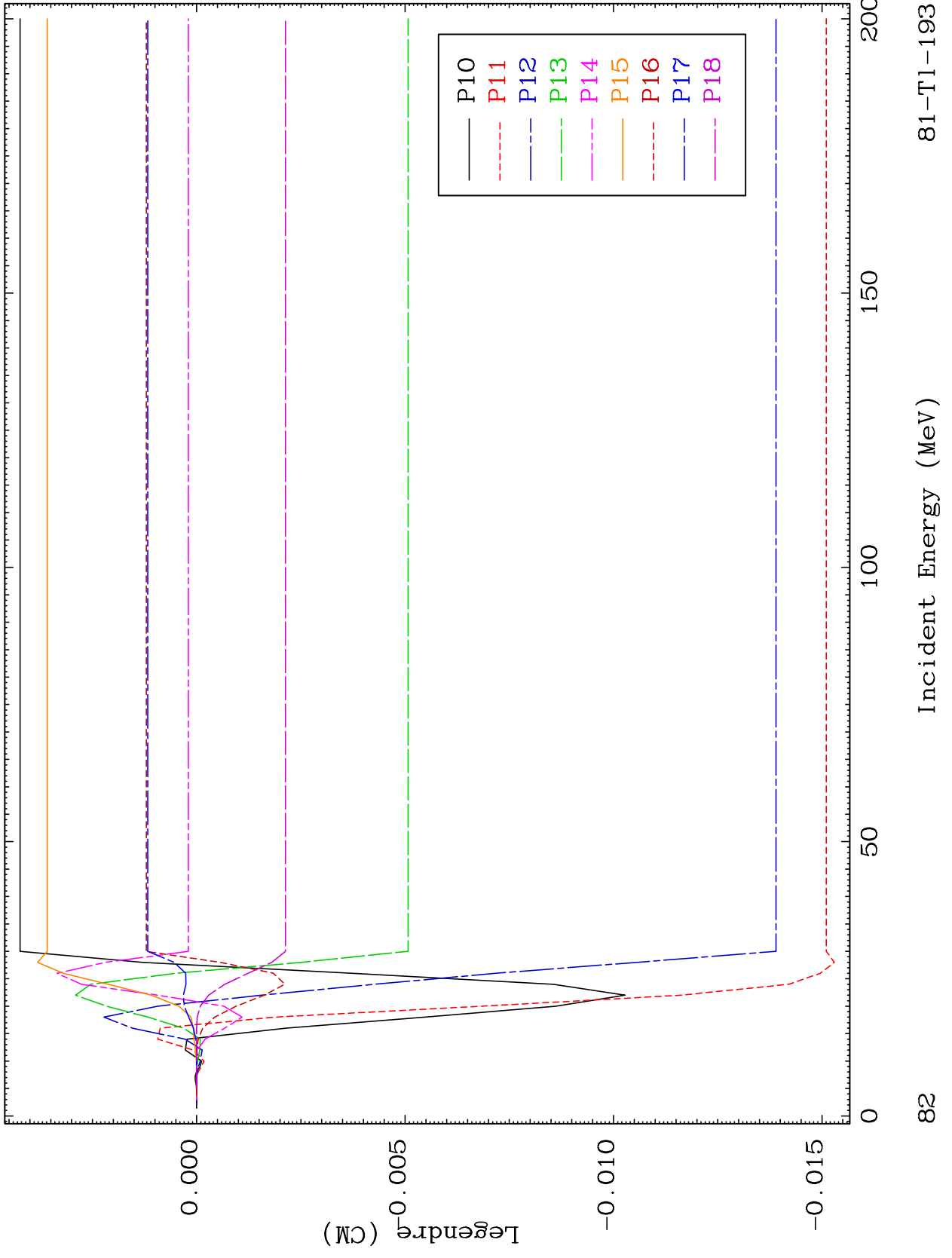
Incident Energy (MeV)

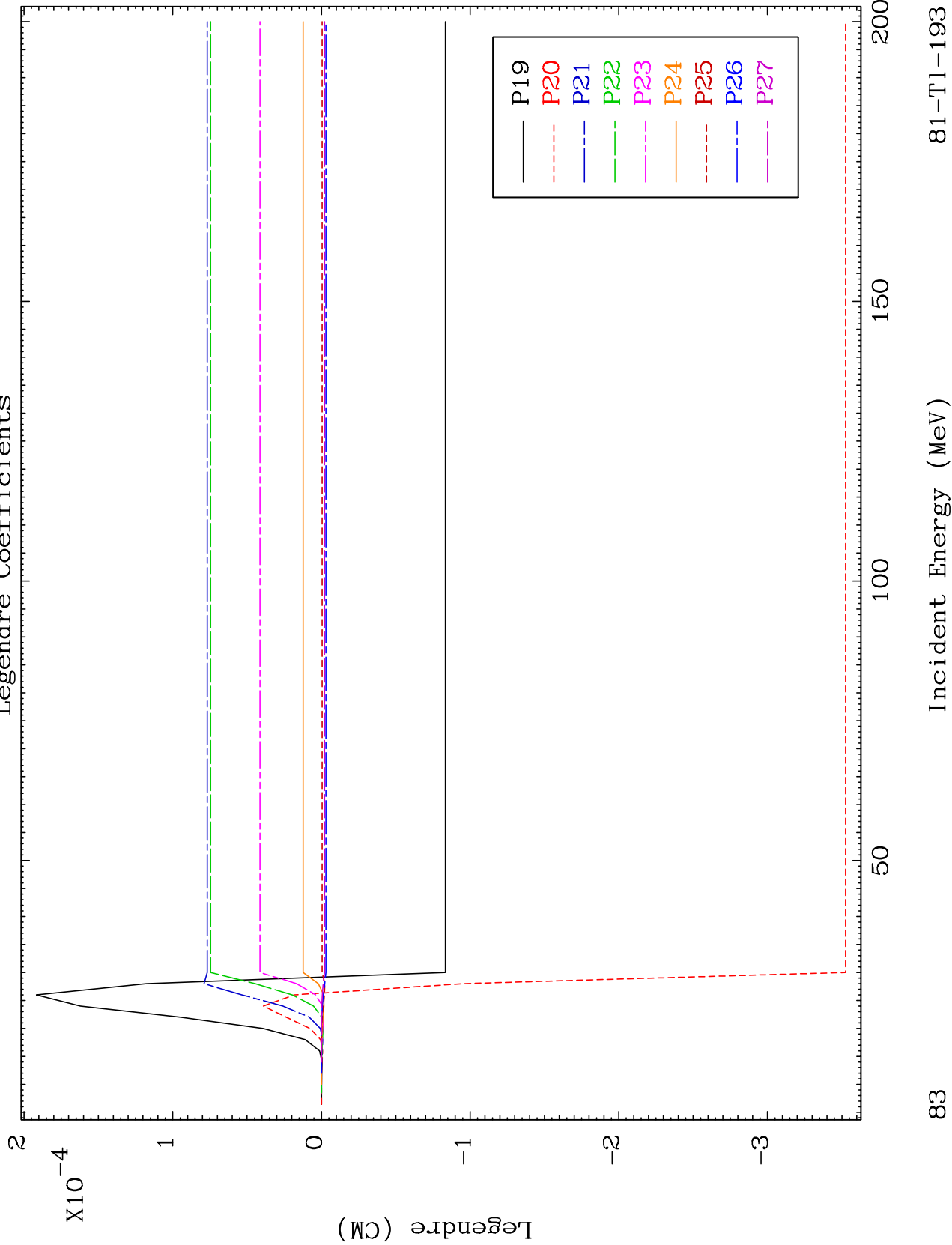
81

MAT 8095

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

81-T1-193

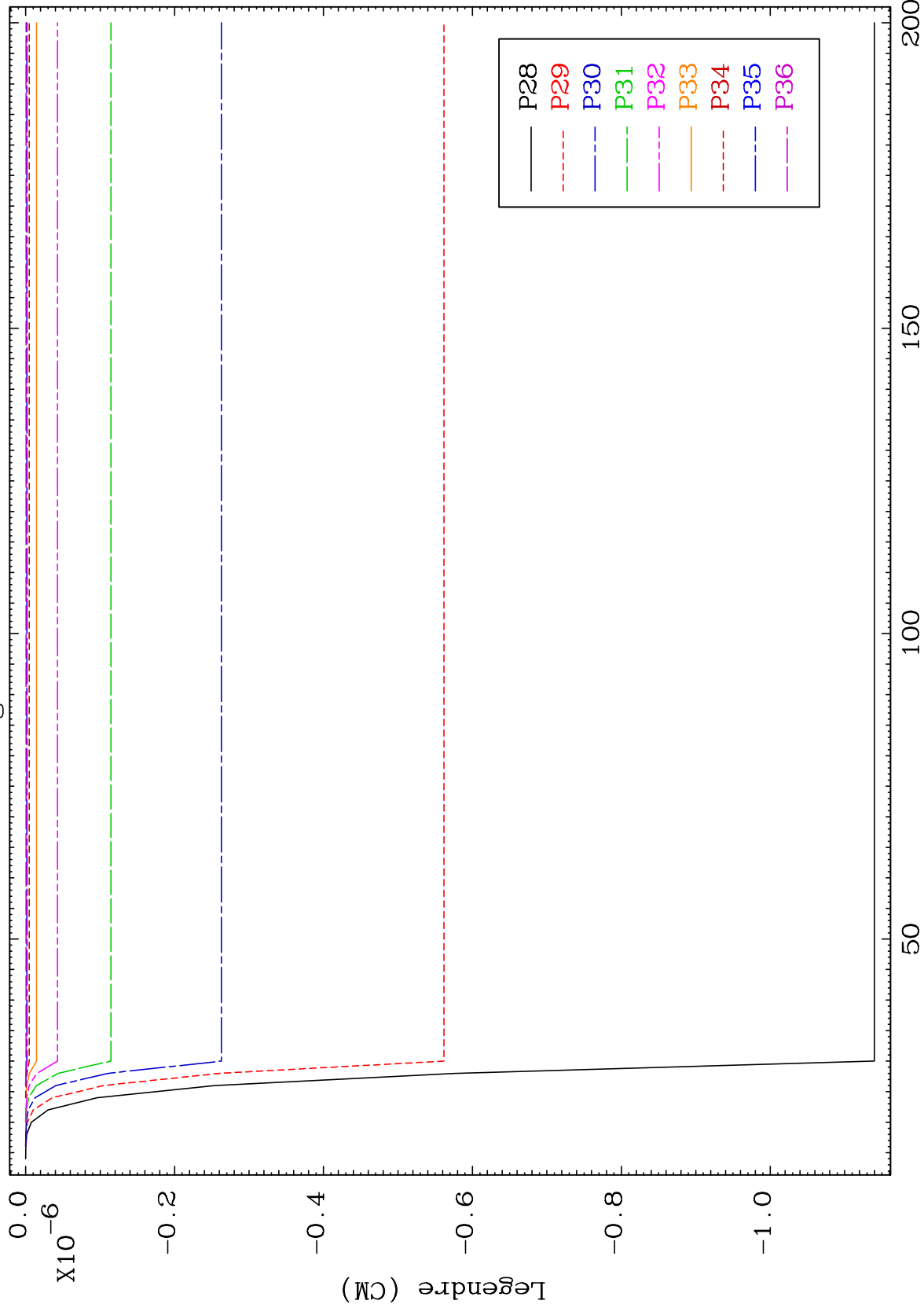




MAT 8095

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

81-T1-193



84

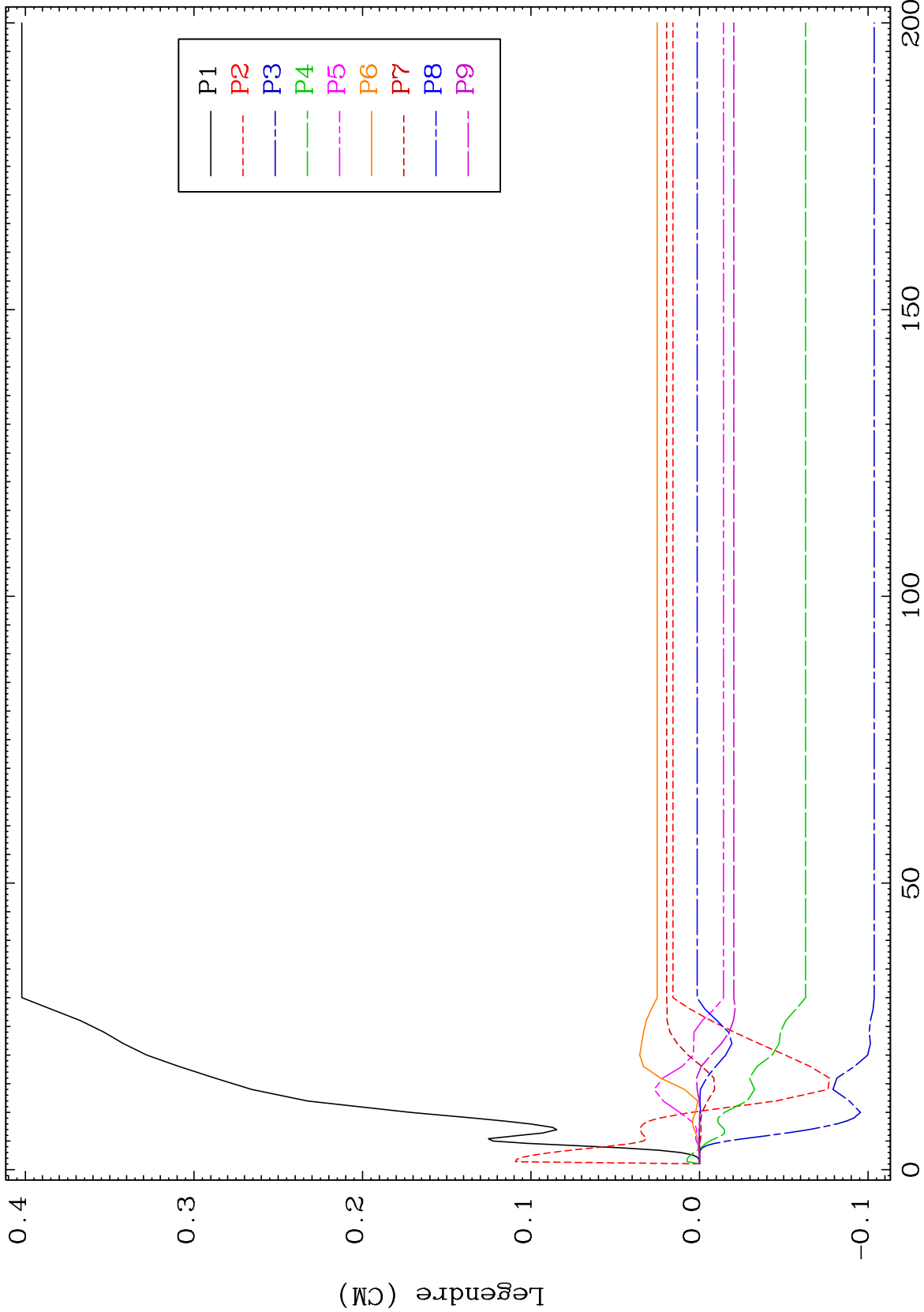
Incident Energy (MeV)

81-T1-193

MAT 8095

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

81-T1-193



85

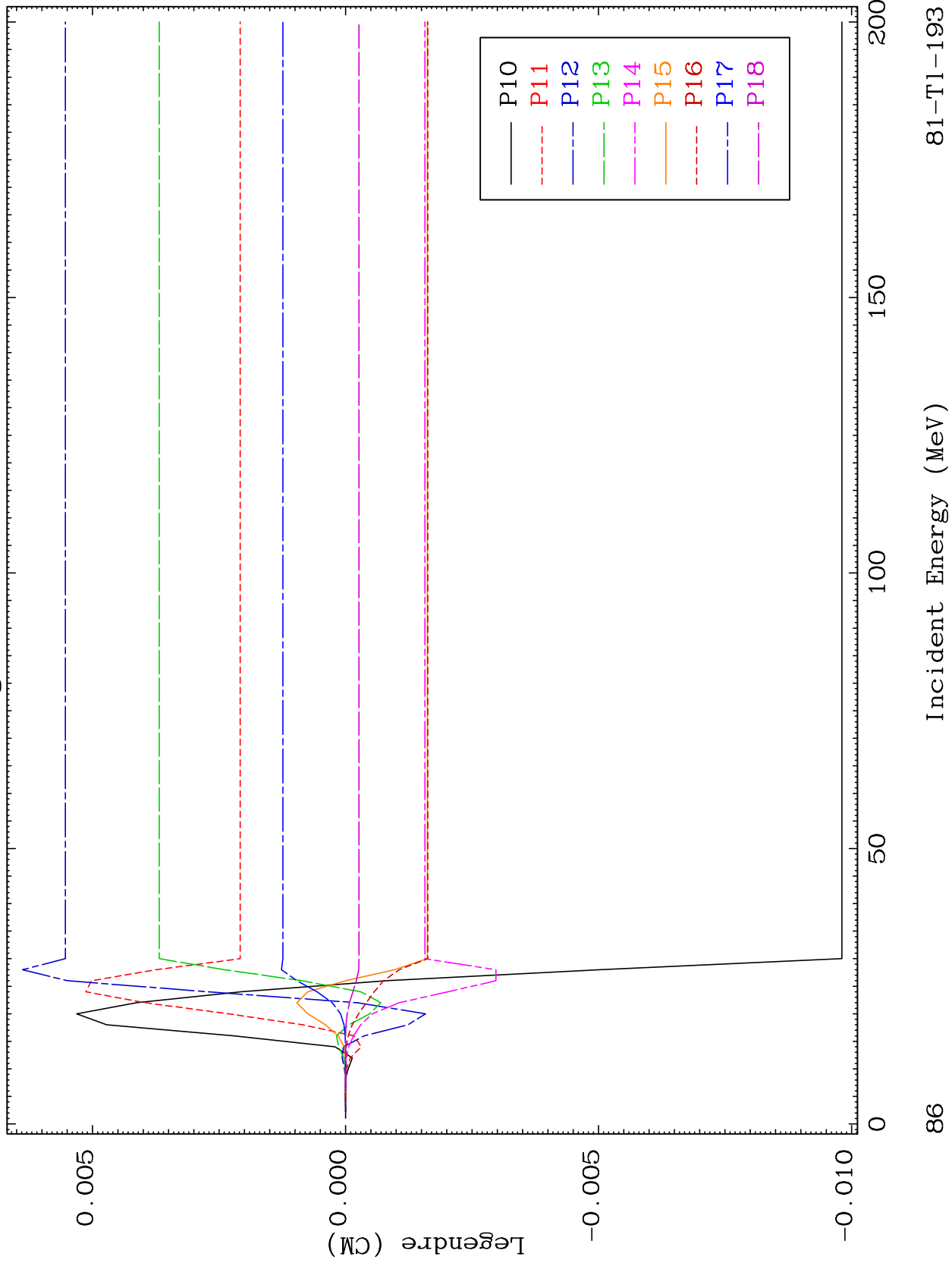
Incident Energy (MeV)

81-T1-193

MAT 8095

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

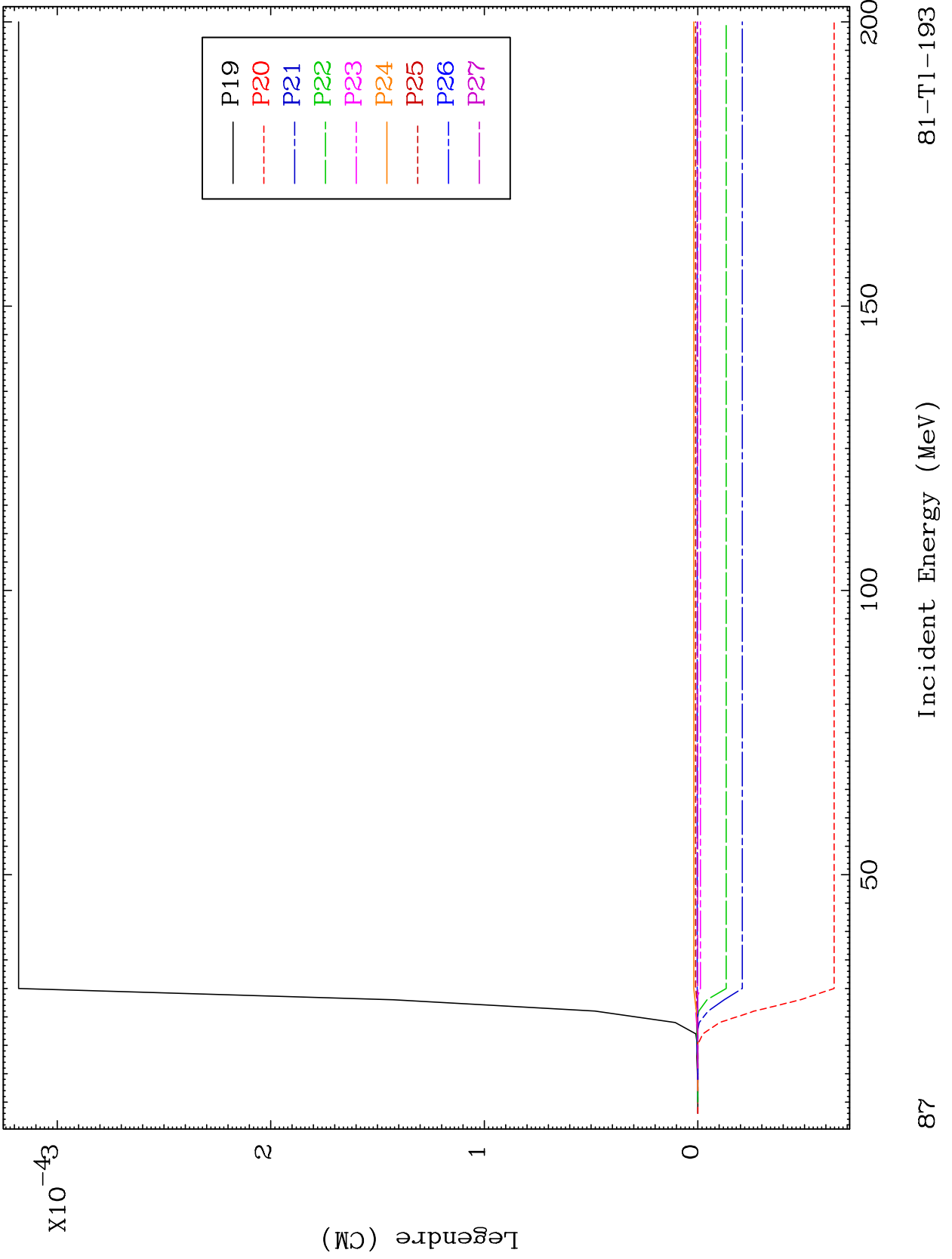
81-T1-193

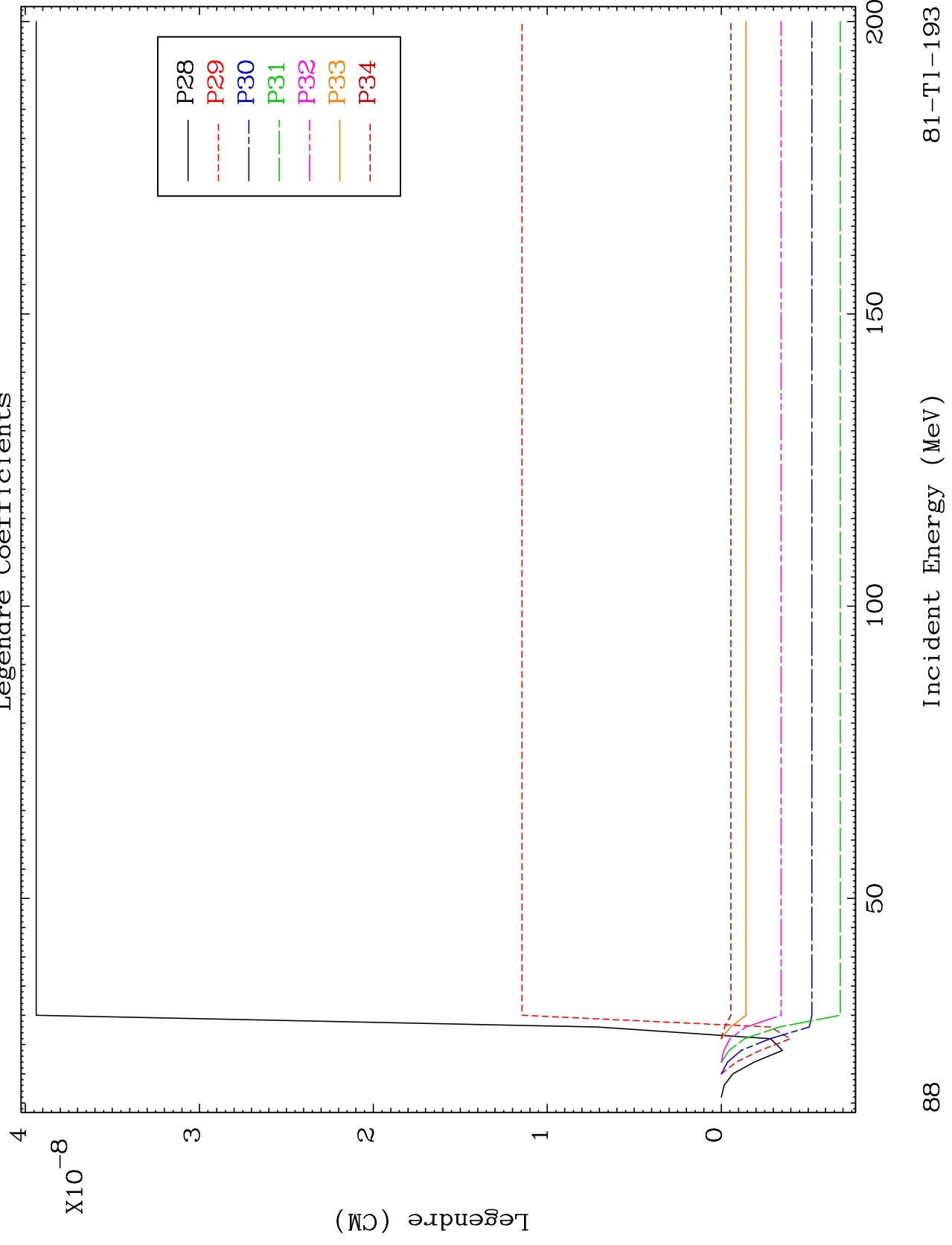


86

Incident Energy (MeV)

81-T1-193

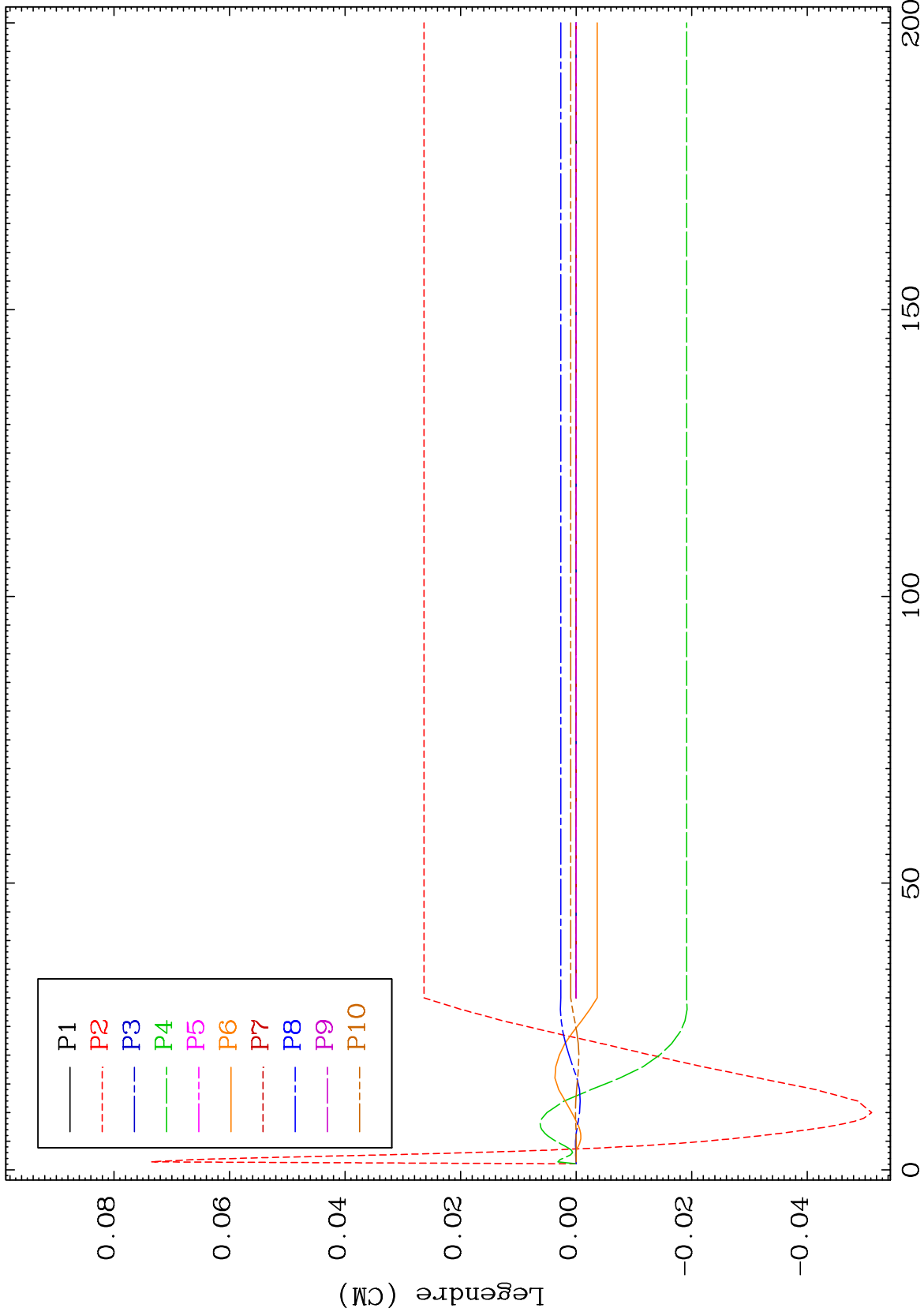




MAT 8095

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

81-T1-193



89

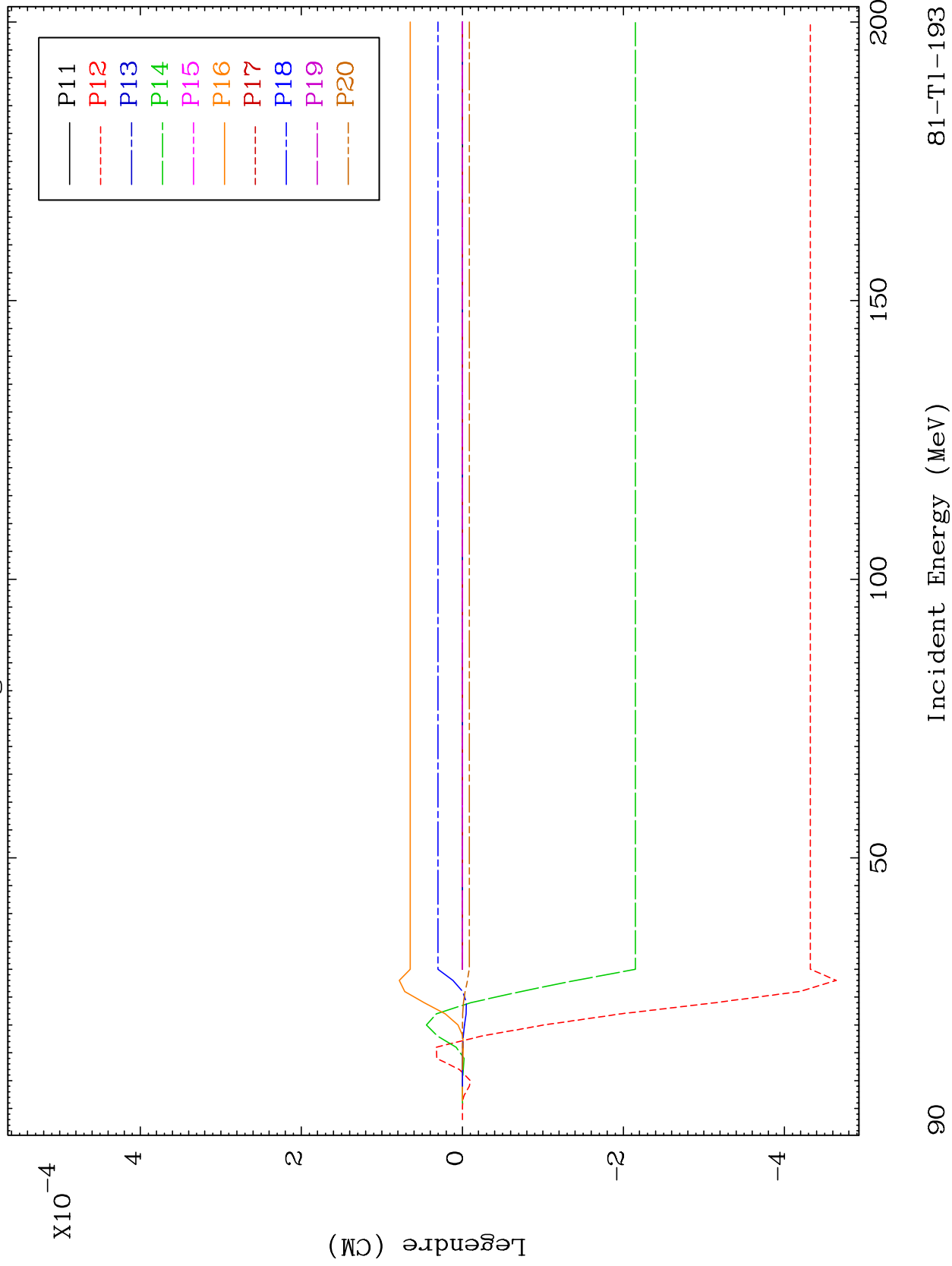
Incident Energy (MeV)

81-T1-193

MAT 8095

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

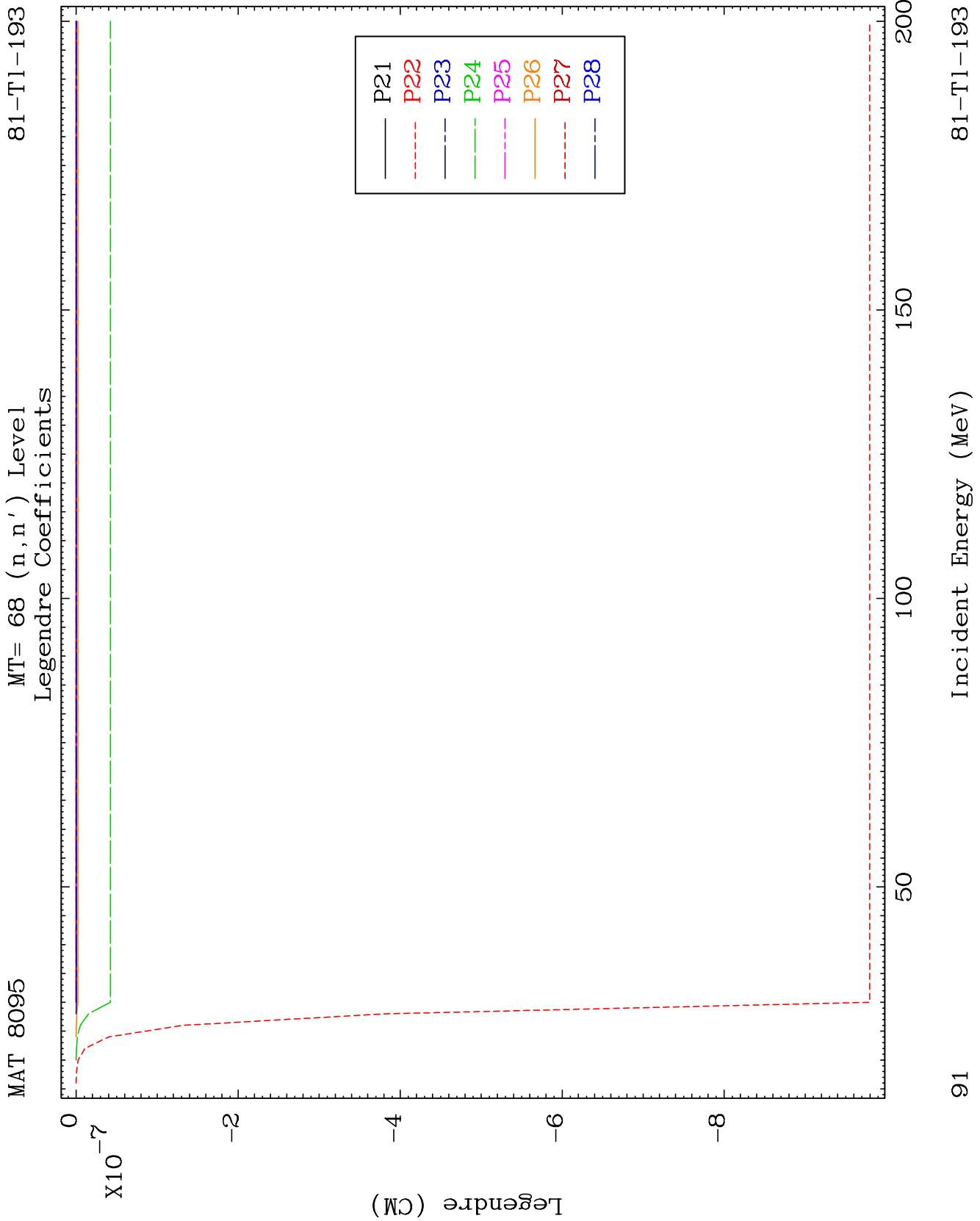
81-Tl-193



81-Tl-193

Incident Energy (MeV)

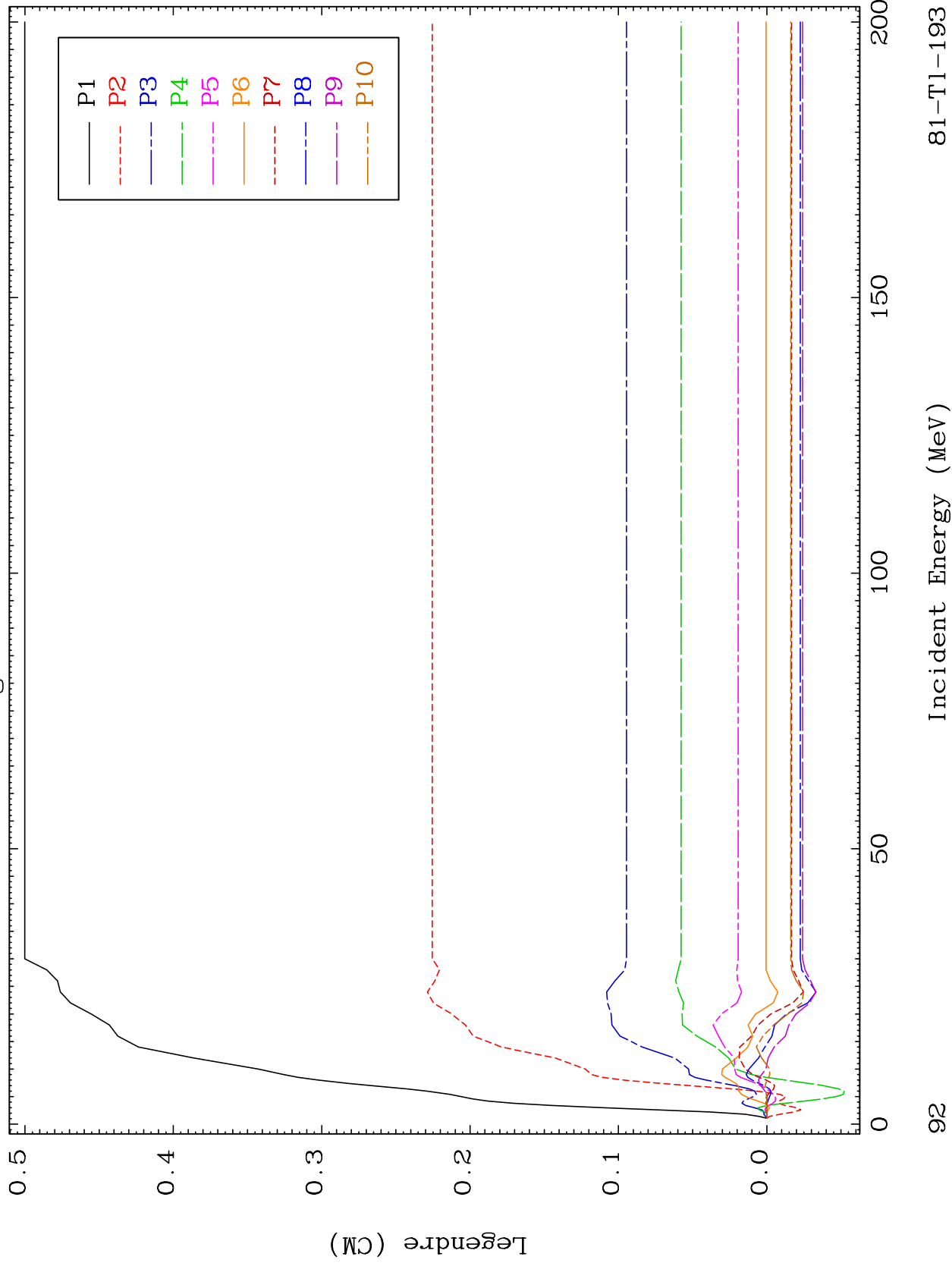
90



MAT 8095

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

81-Tl-193



92

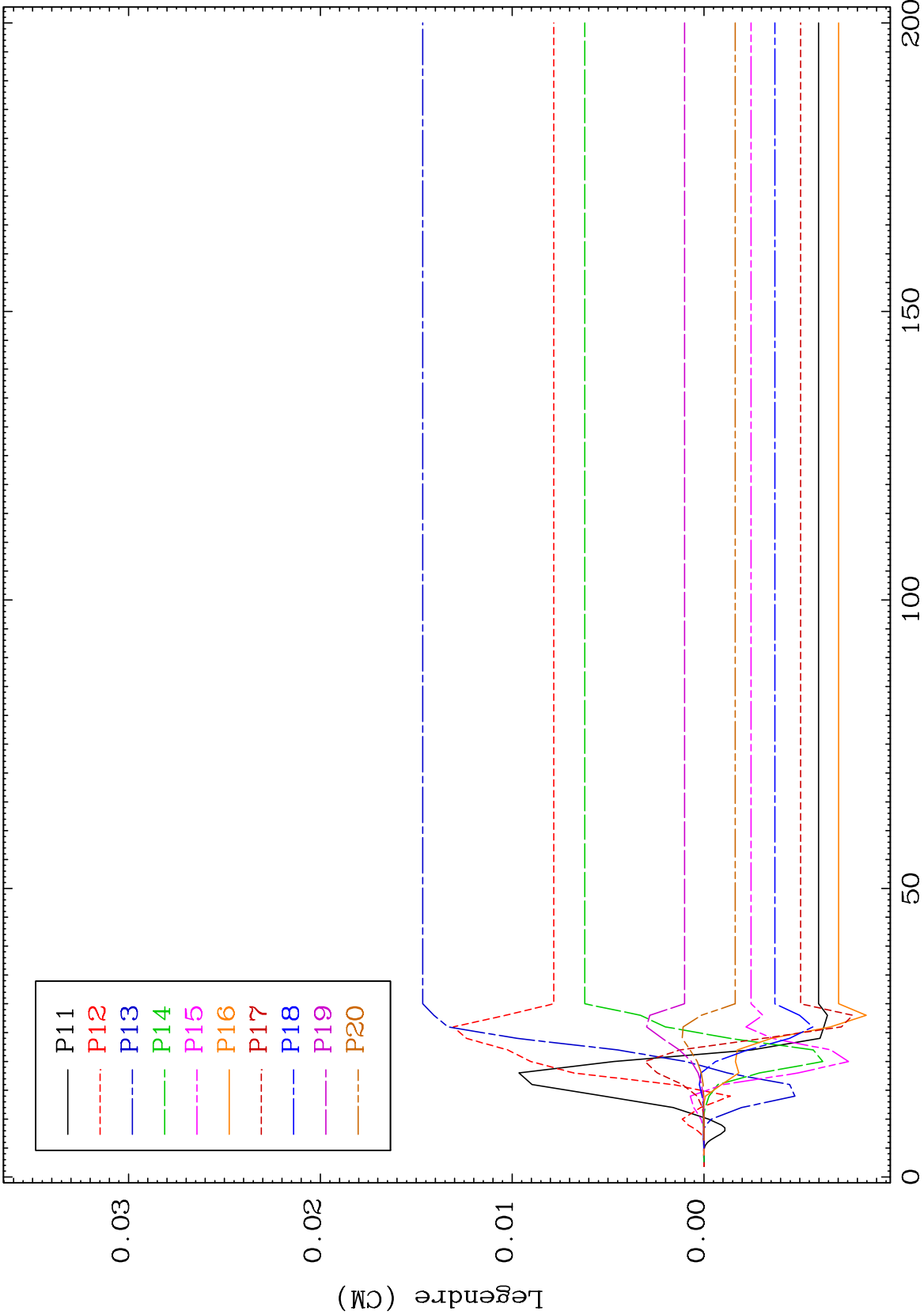
Incident Energy (MeV)

81-Tl-193

MAT 8095

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

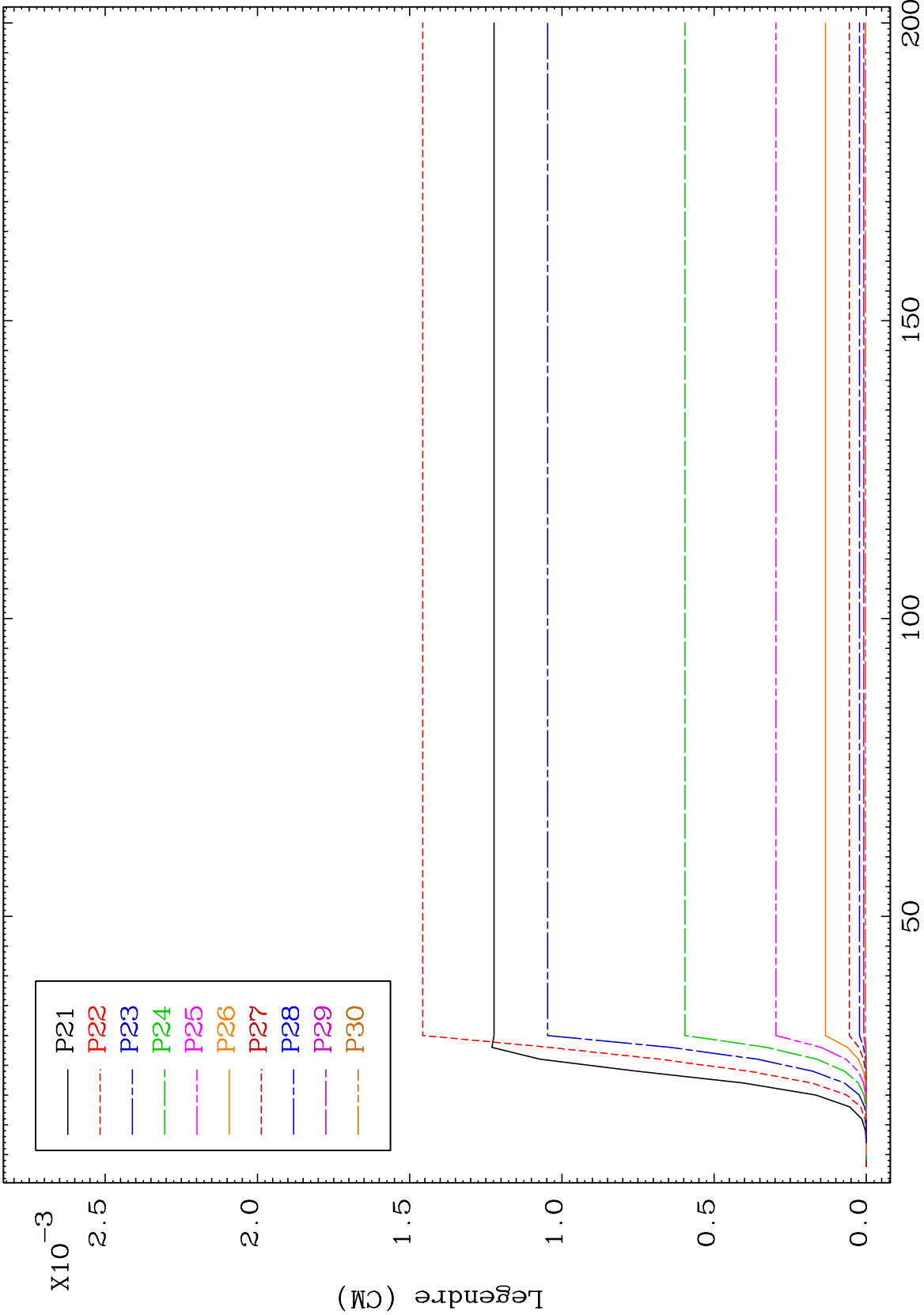
81-T1-193



93

Incident Energy (MeV)

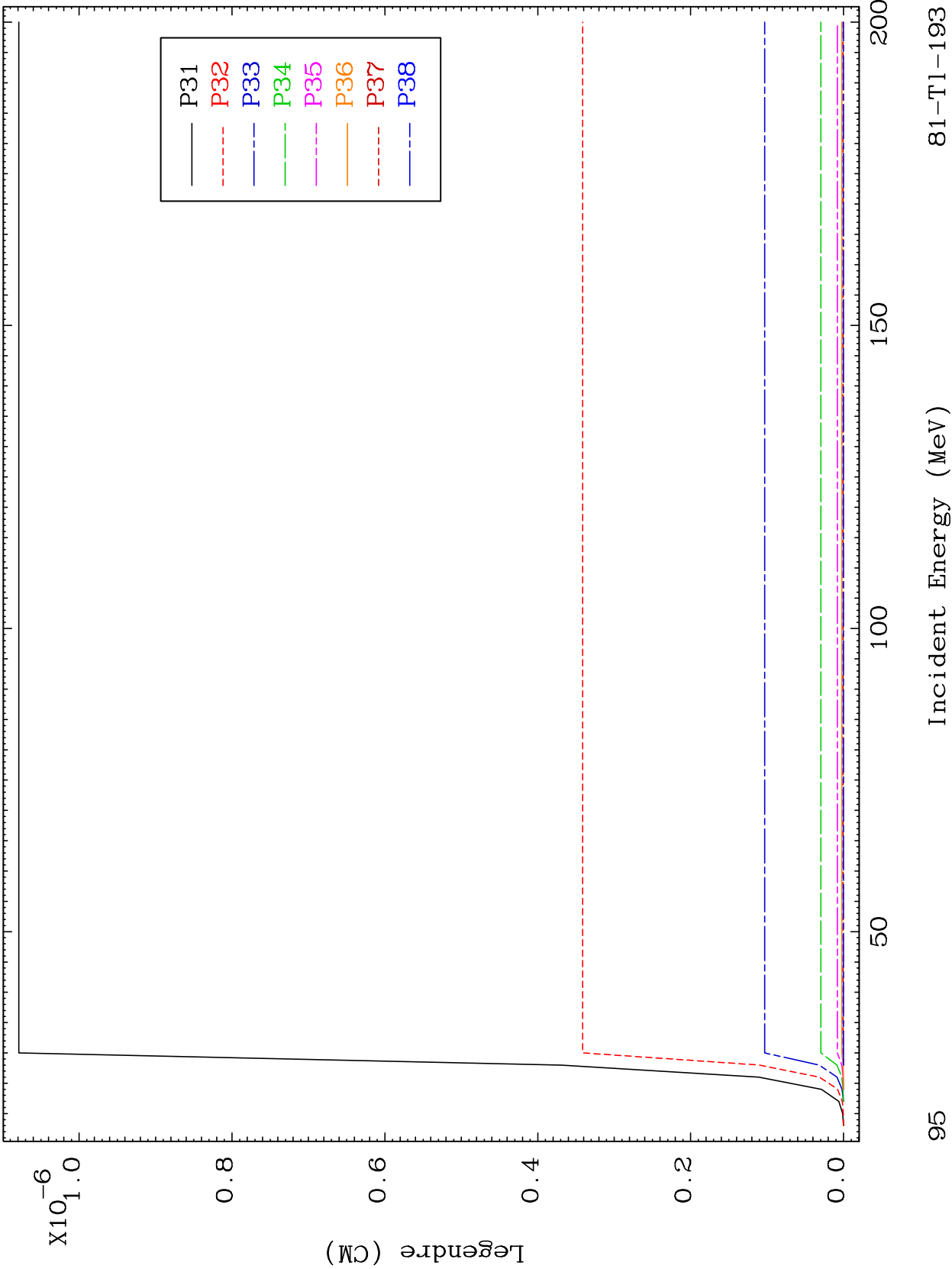
81-T1-193



MAT 8095

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

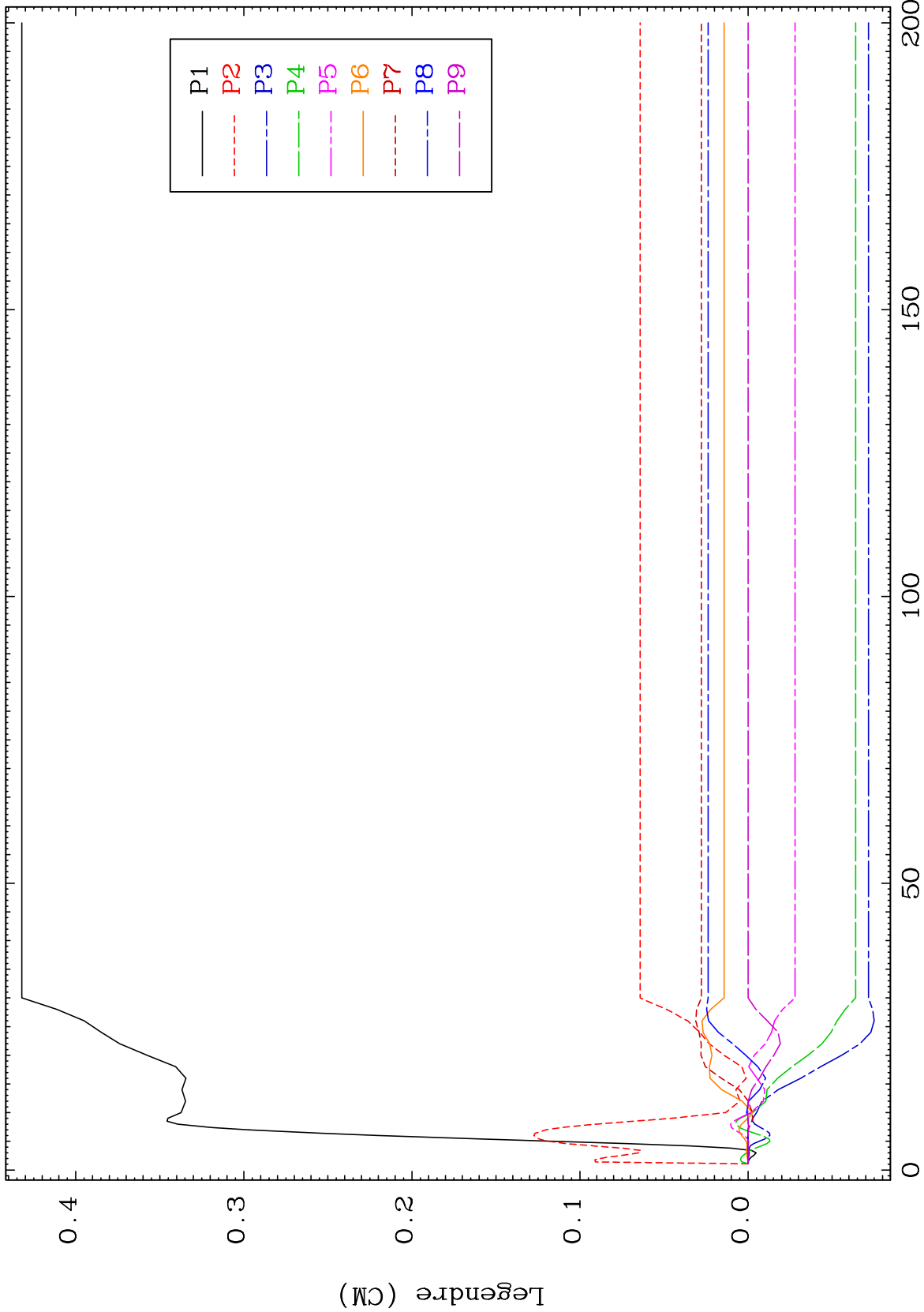
81-Tl-193



95

Incident Energy (MeV)

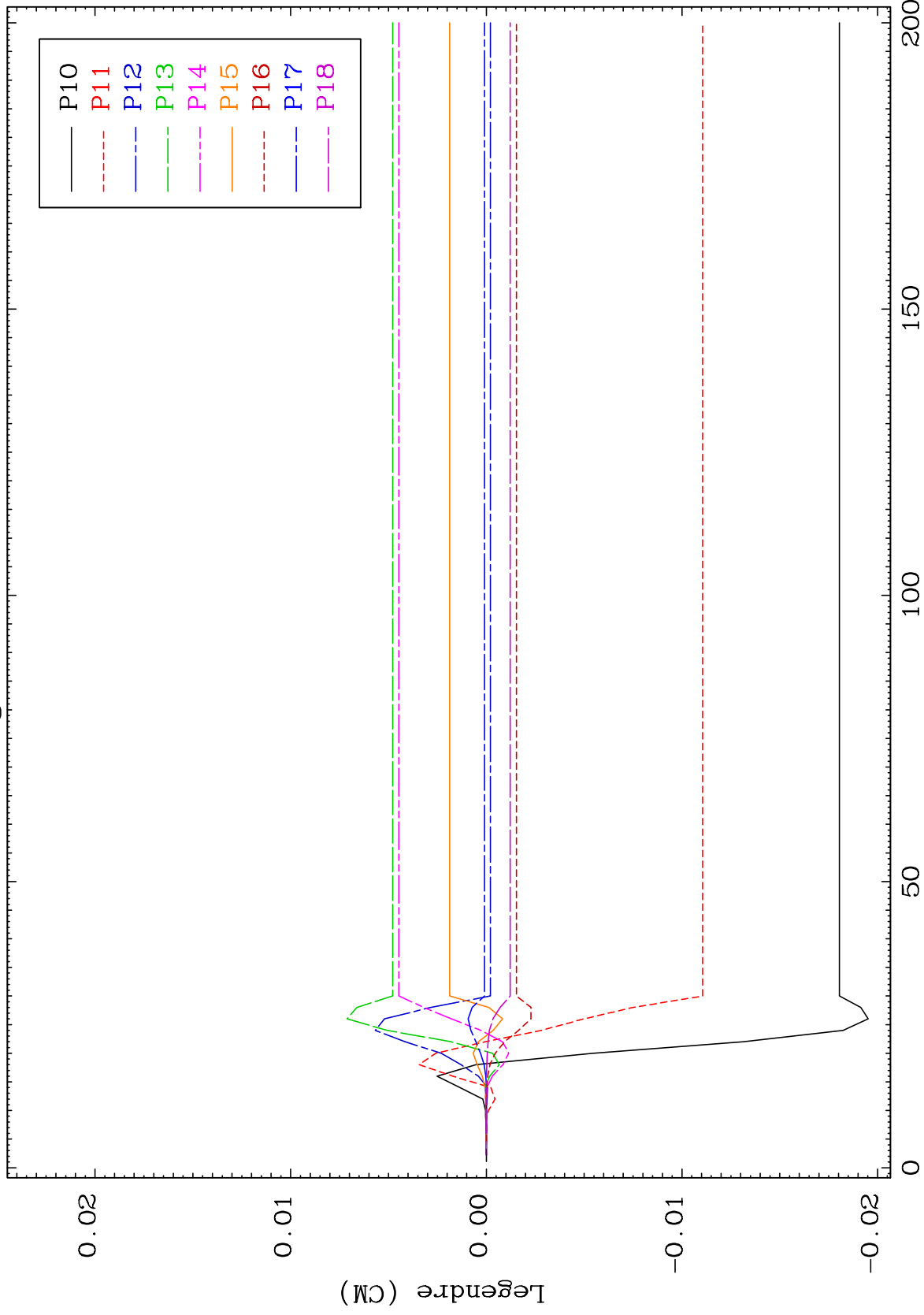
81-Tl-193



MAT 8095

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

81-Tl-193



97

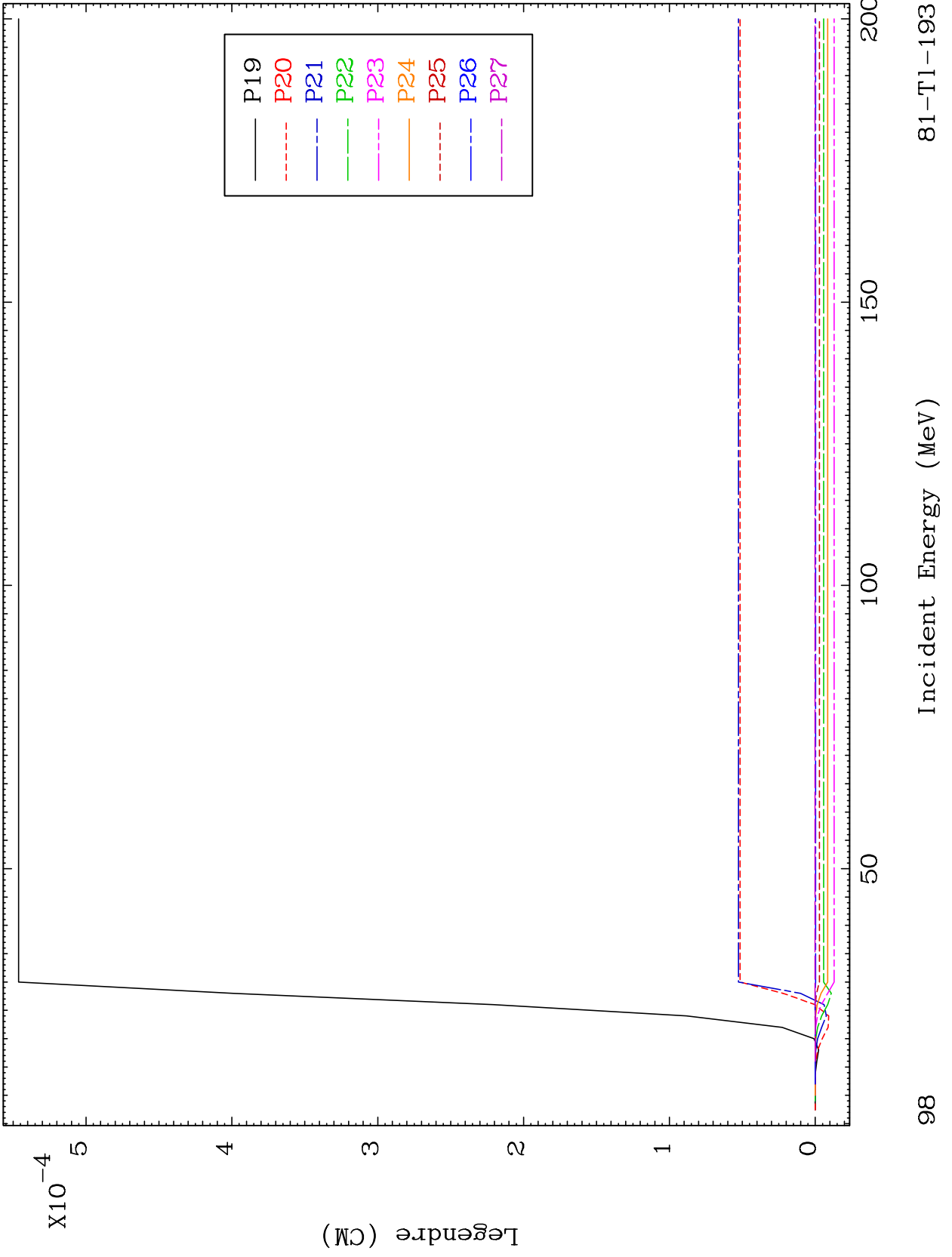
Incident Energy (MeV)

81-Tl-193

MAT 8095

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

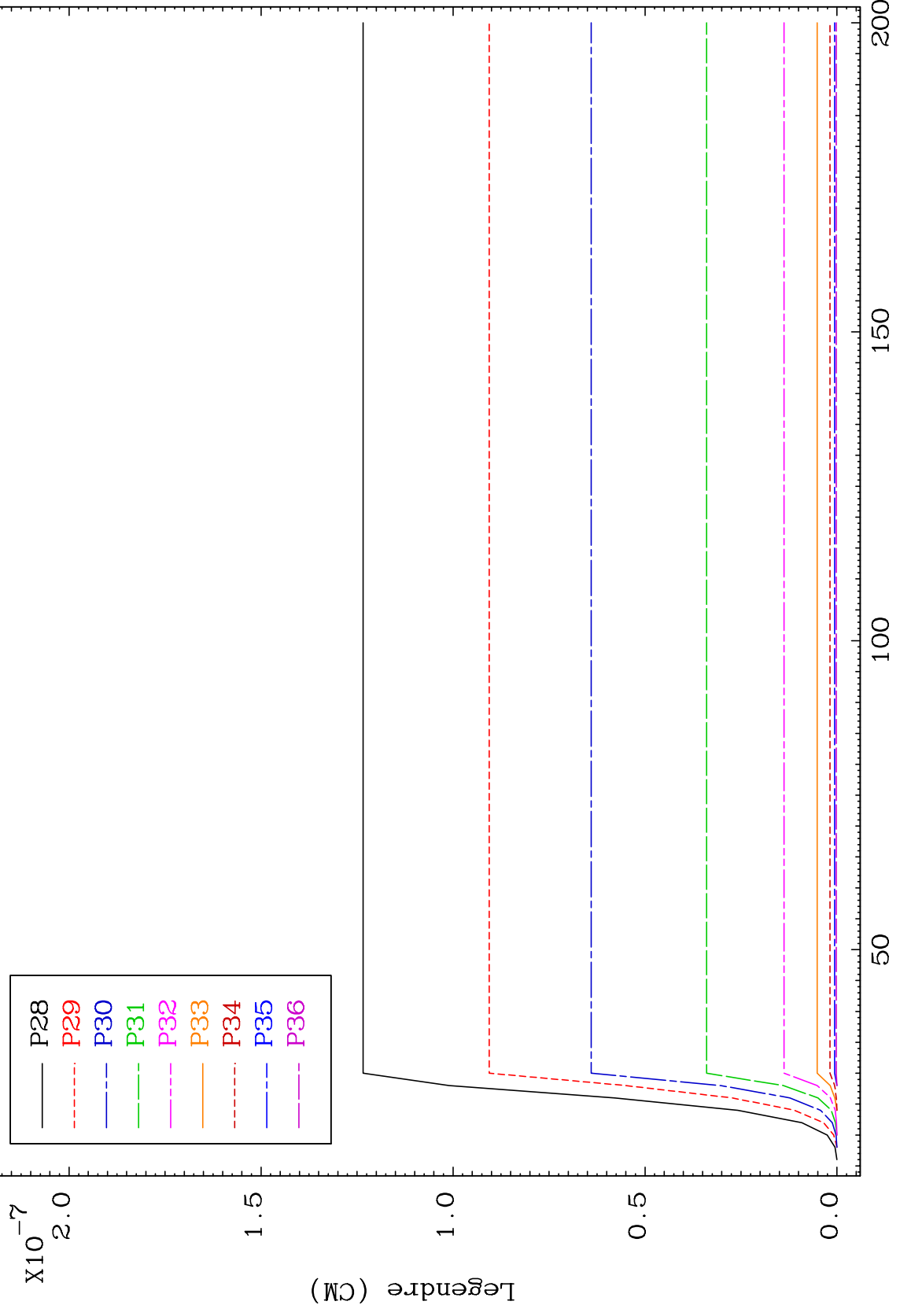
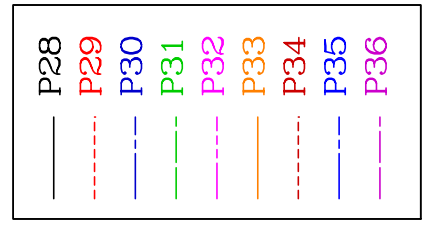
81-Tl-193



MAT 8095

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

81-Tl-193



99

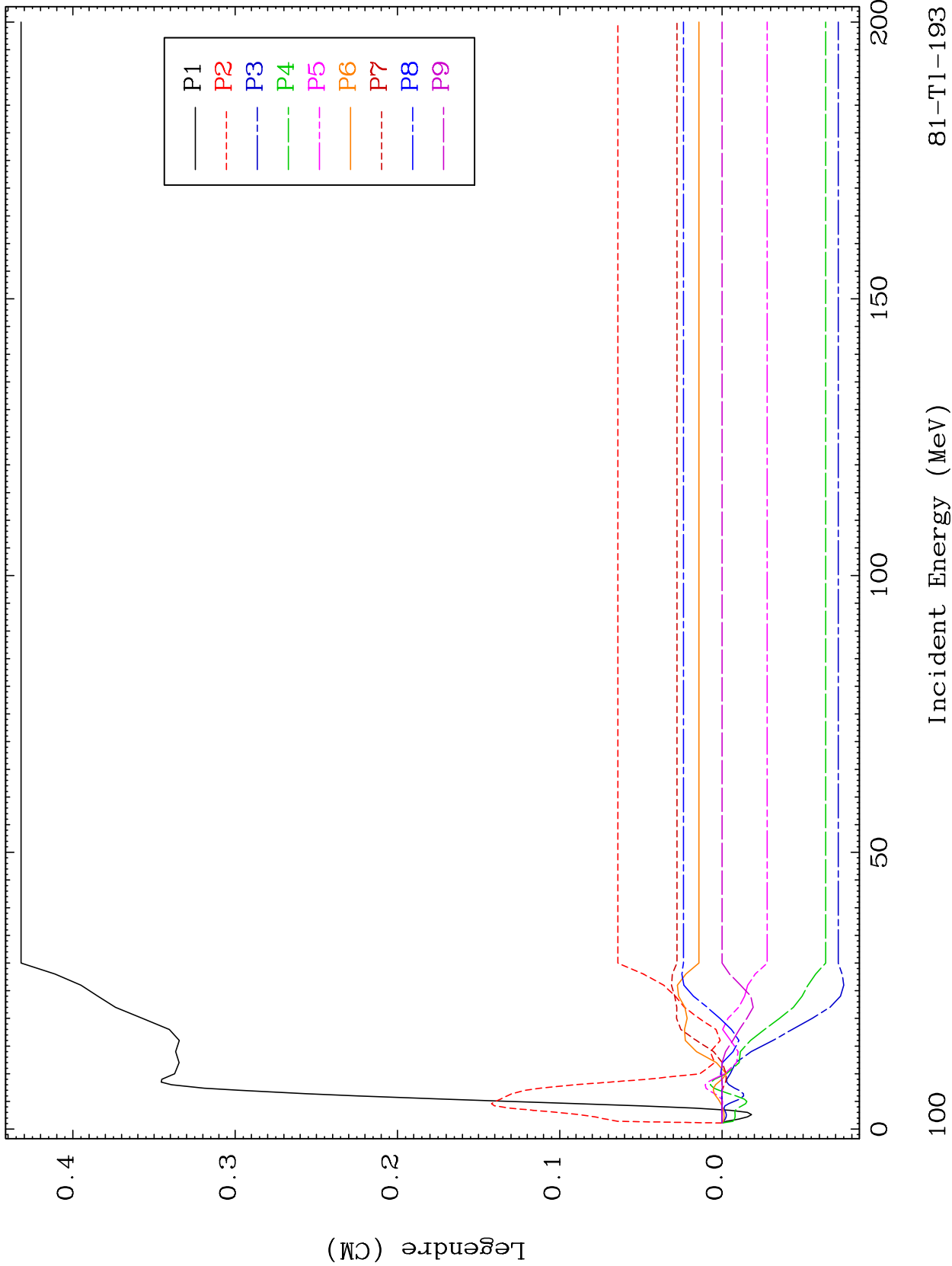
Incident Energy (MeV)

81-Tl-193

MAT 8095

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

81-Tl-193



81-Tl-193

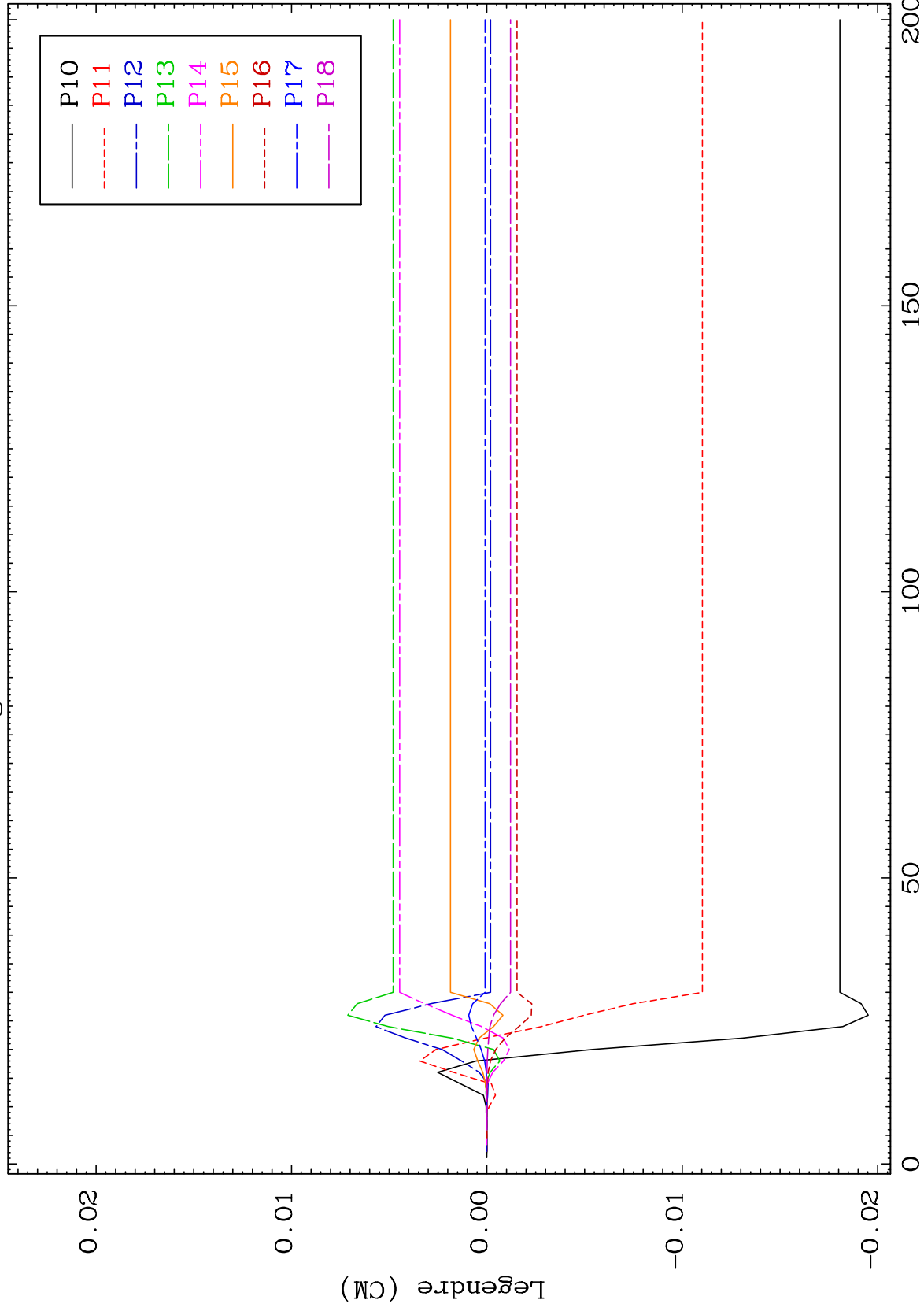
Incident Energy (MeV)

100

MAT 8095

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

81-T1-193



101

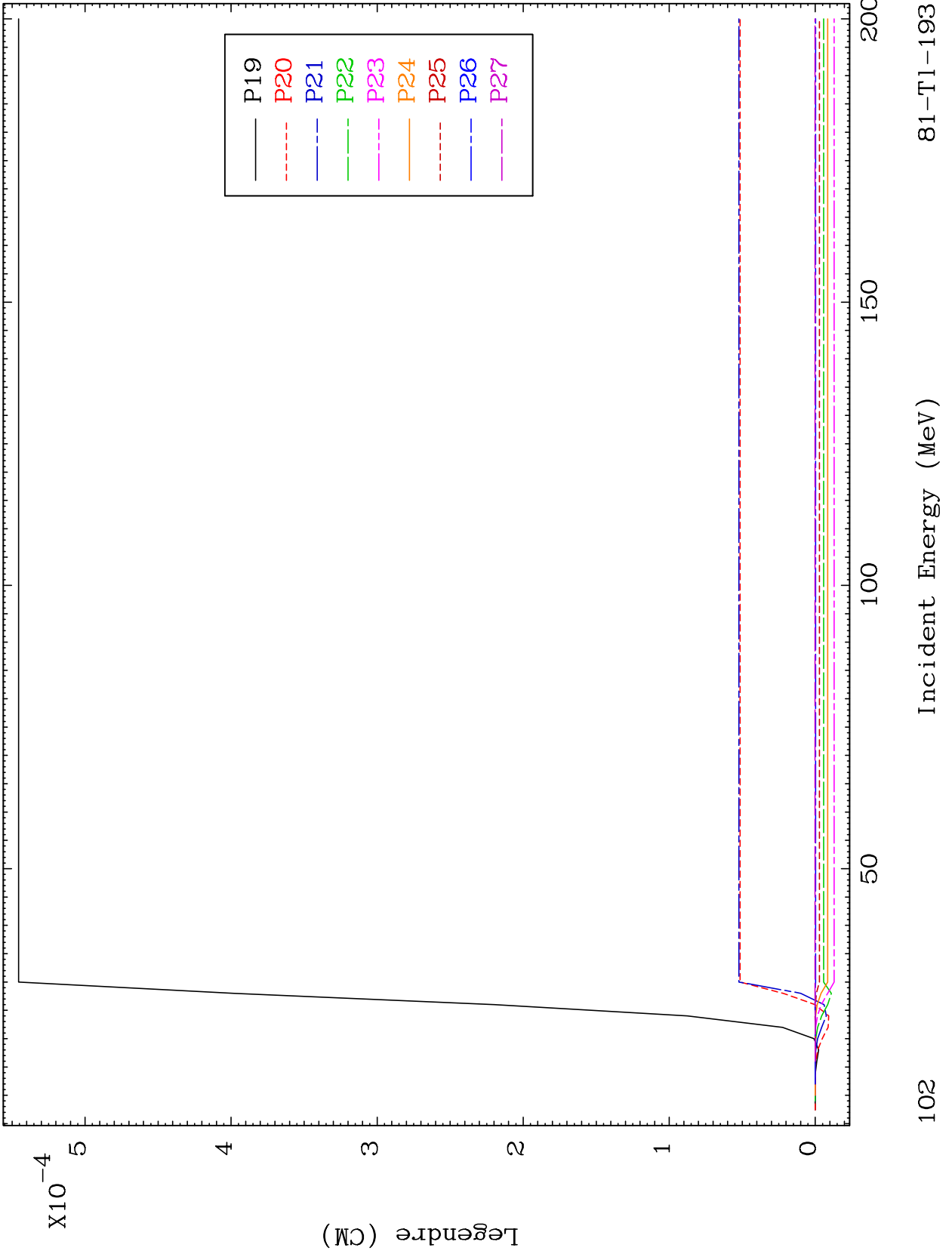
Incident Energy (MeV)

81-T1-193

MAT 8095

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

81-T1-193



102

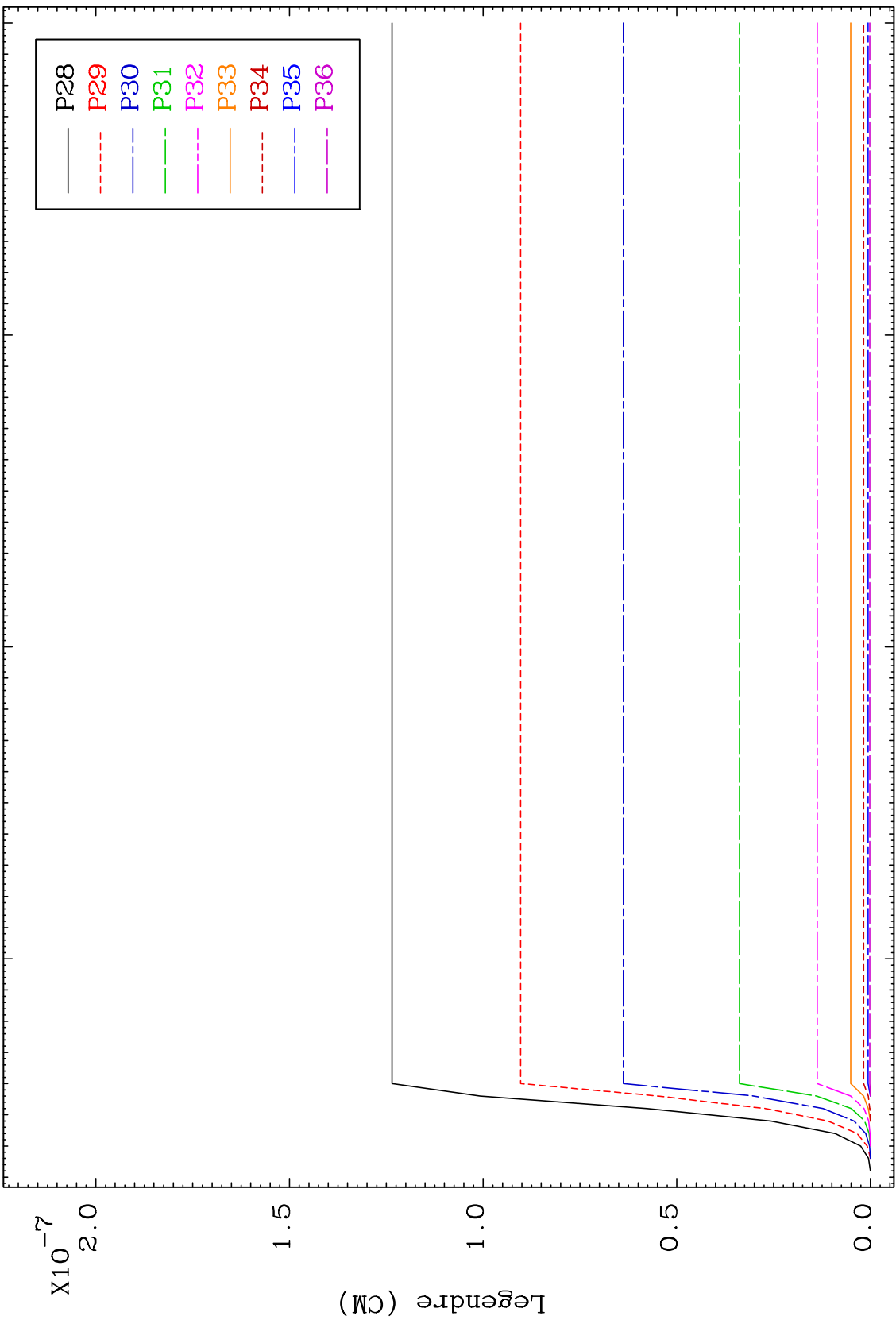
81-T1-193

MAT 8095

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

81-T1-193

$\times 10^{-7}$
2.0
1.5
1.0
0.5
0.0



103

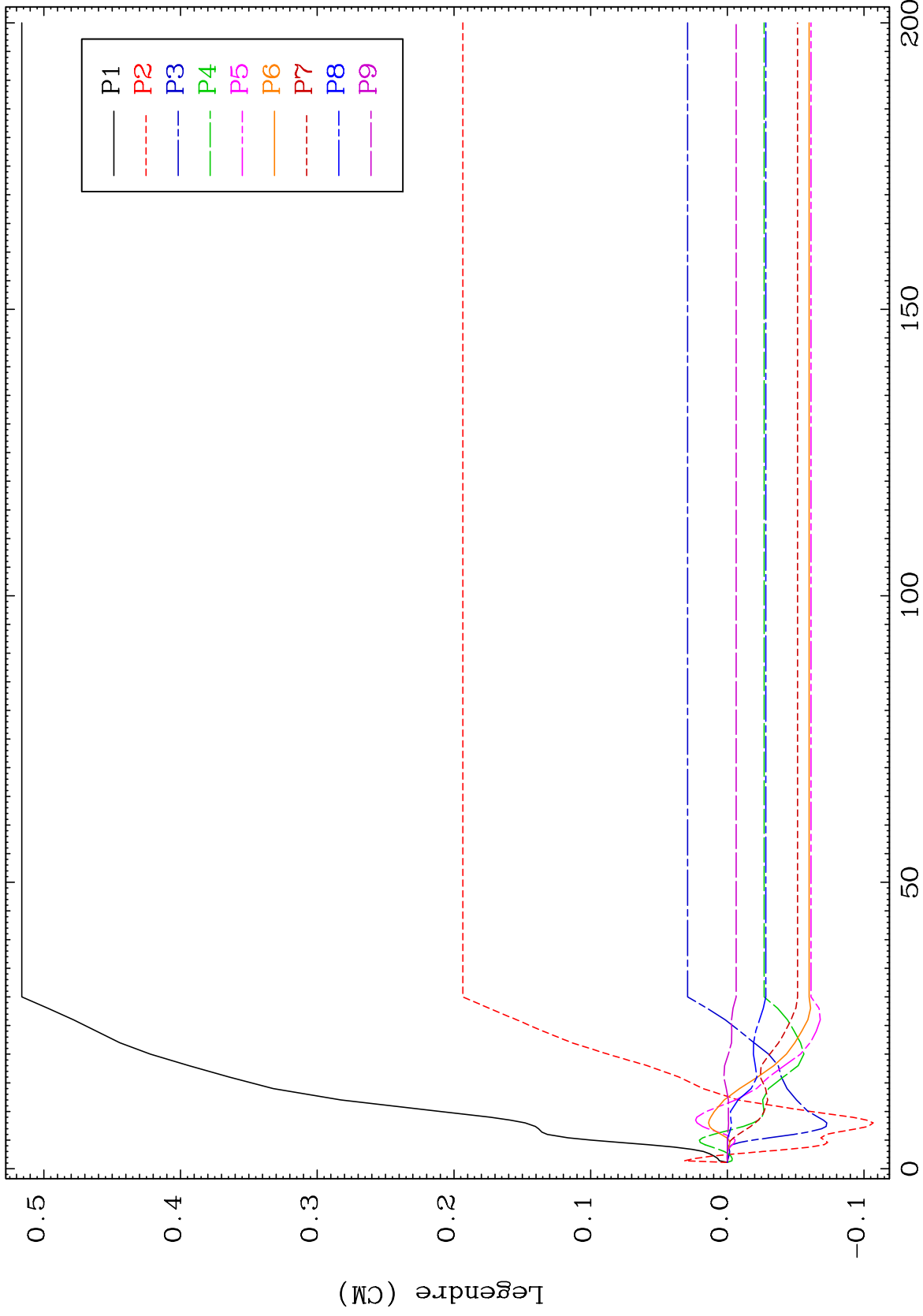
Incident Energy (MeV)

81-T1-193

MAT 8095

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

81-Tl-193



81-Tl-193

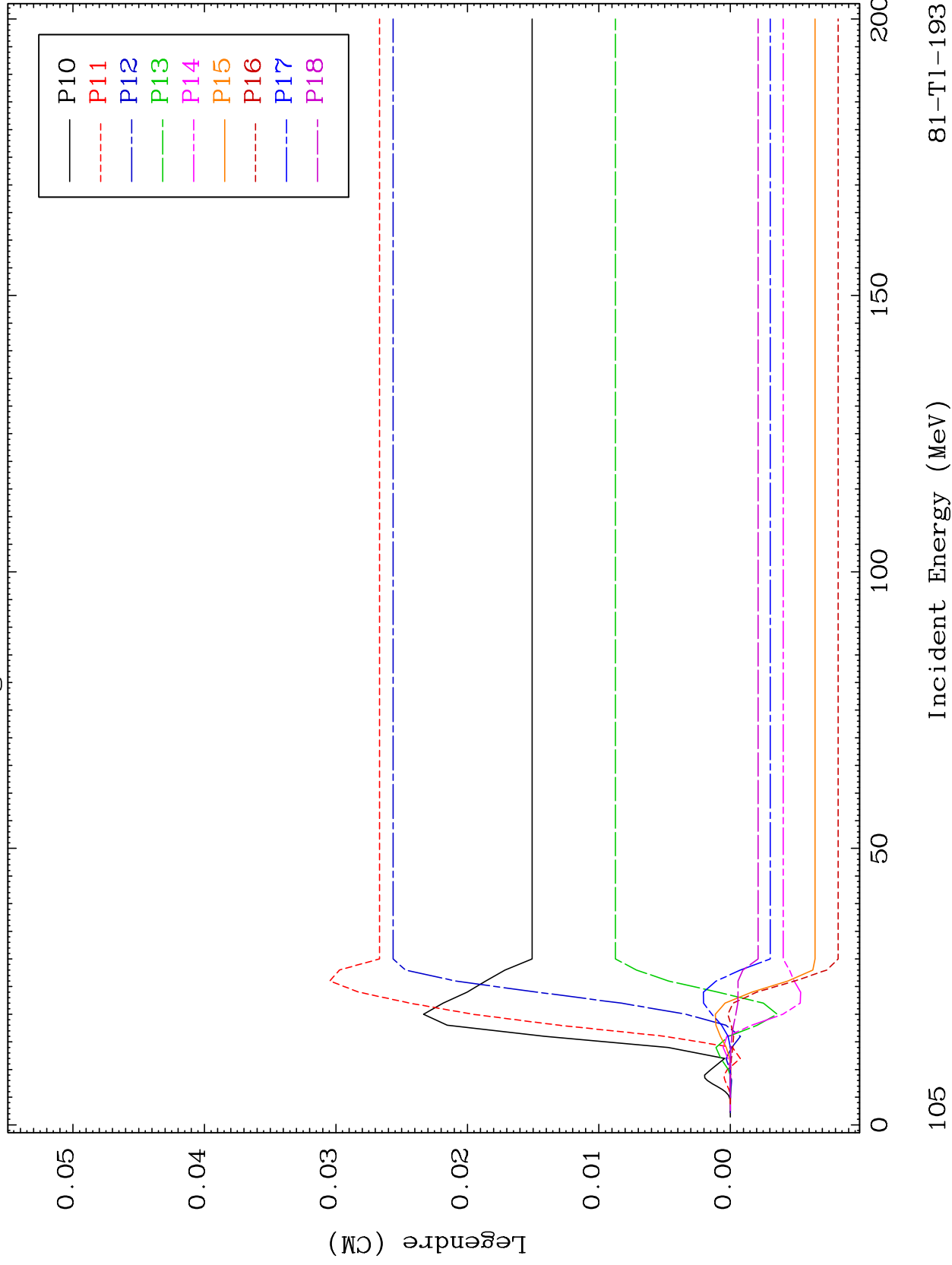
Incident Energy (MeV)

104

MAT 8095

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

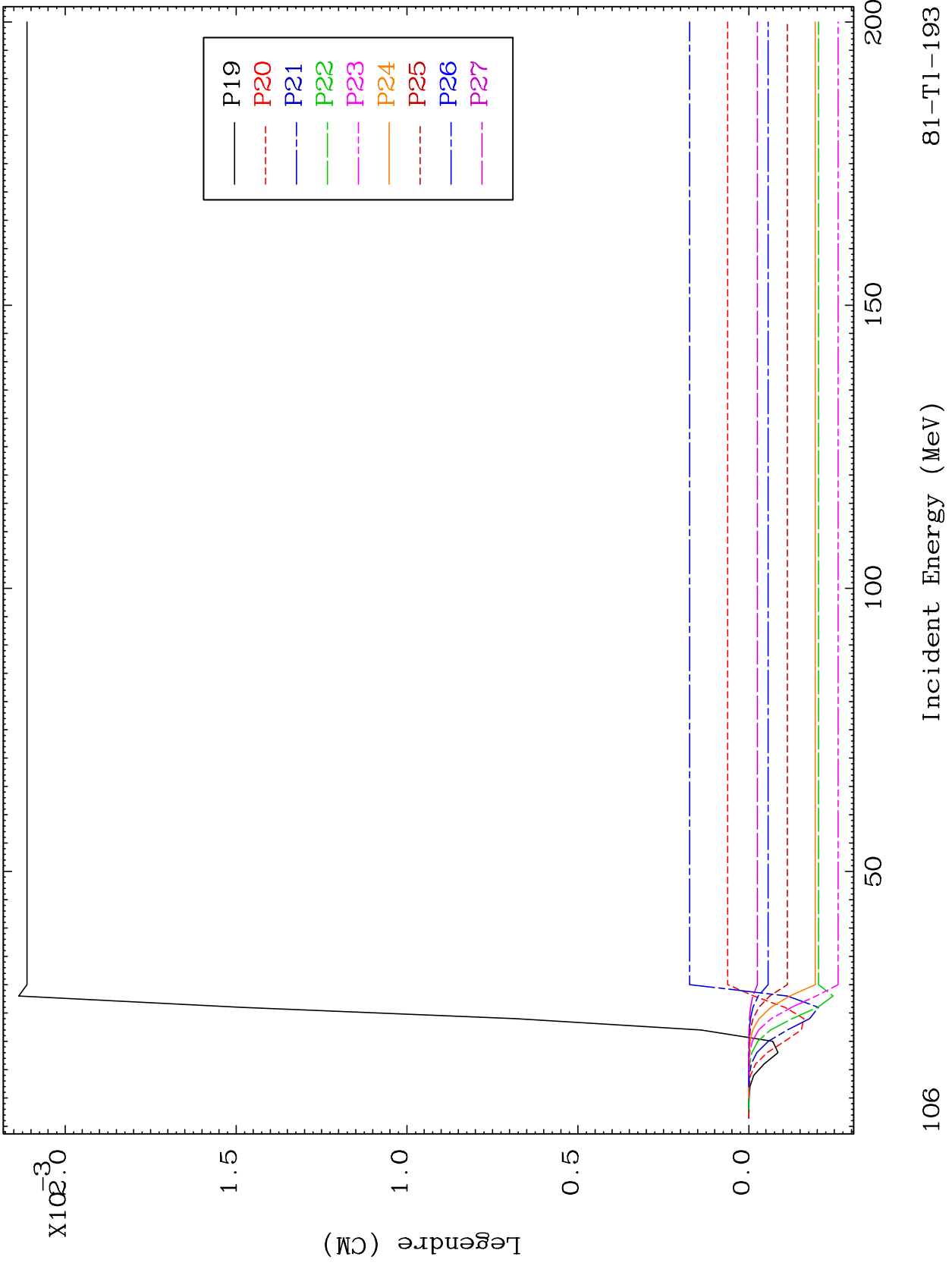
81-Tl-193

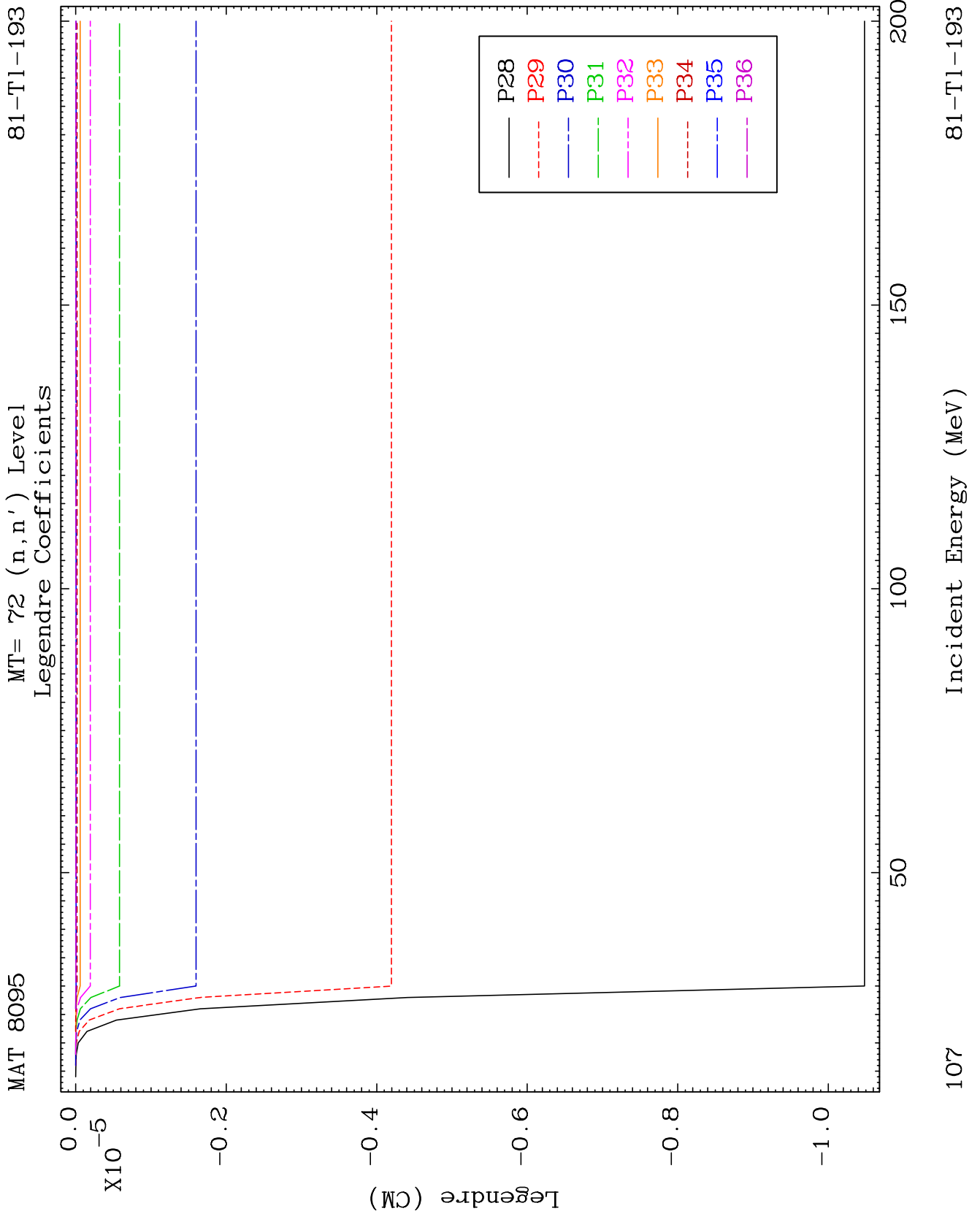


81-Tl-193

Incident Energy (MeV)

105

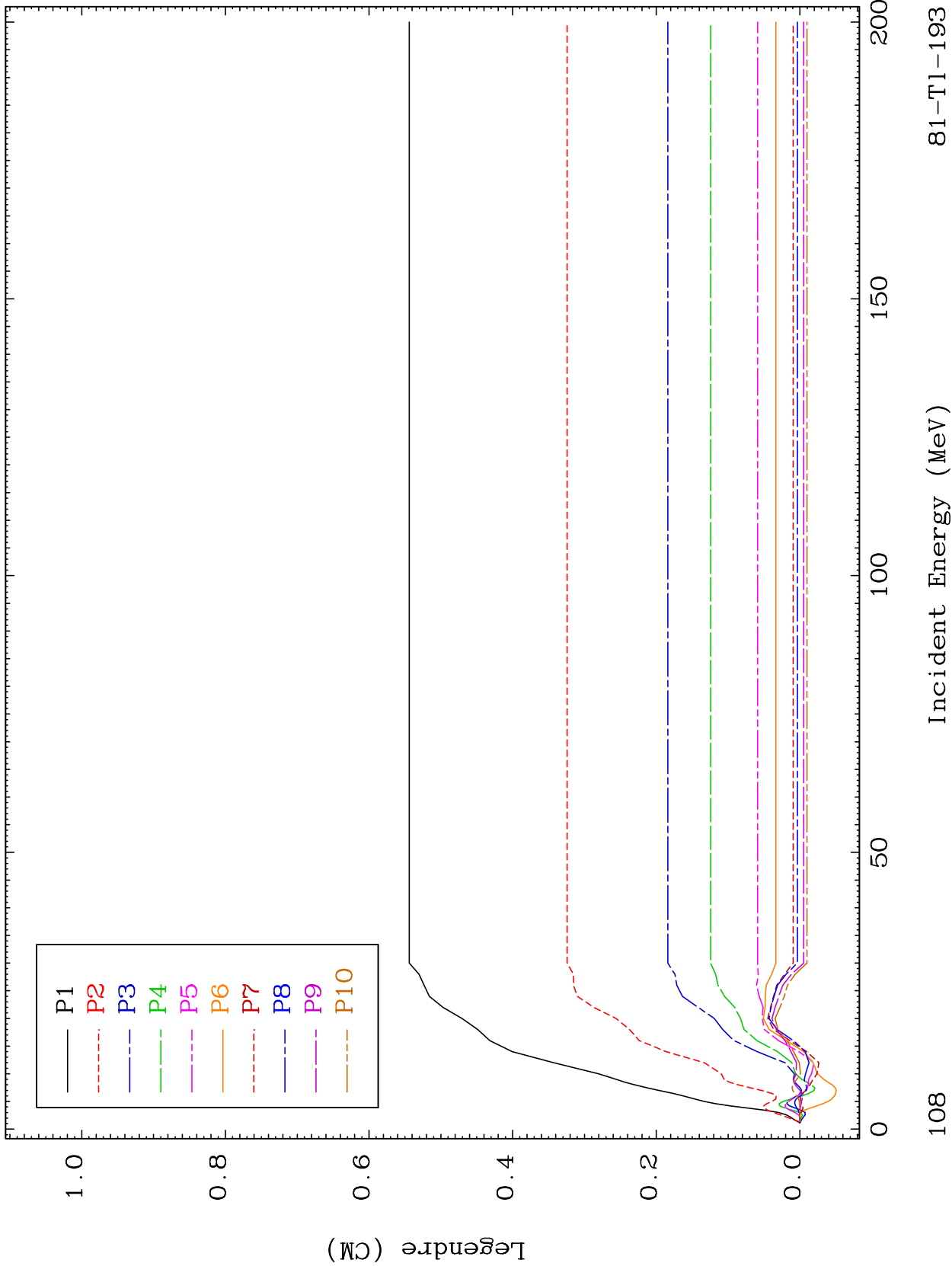




MAT 8095

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

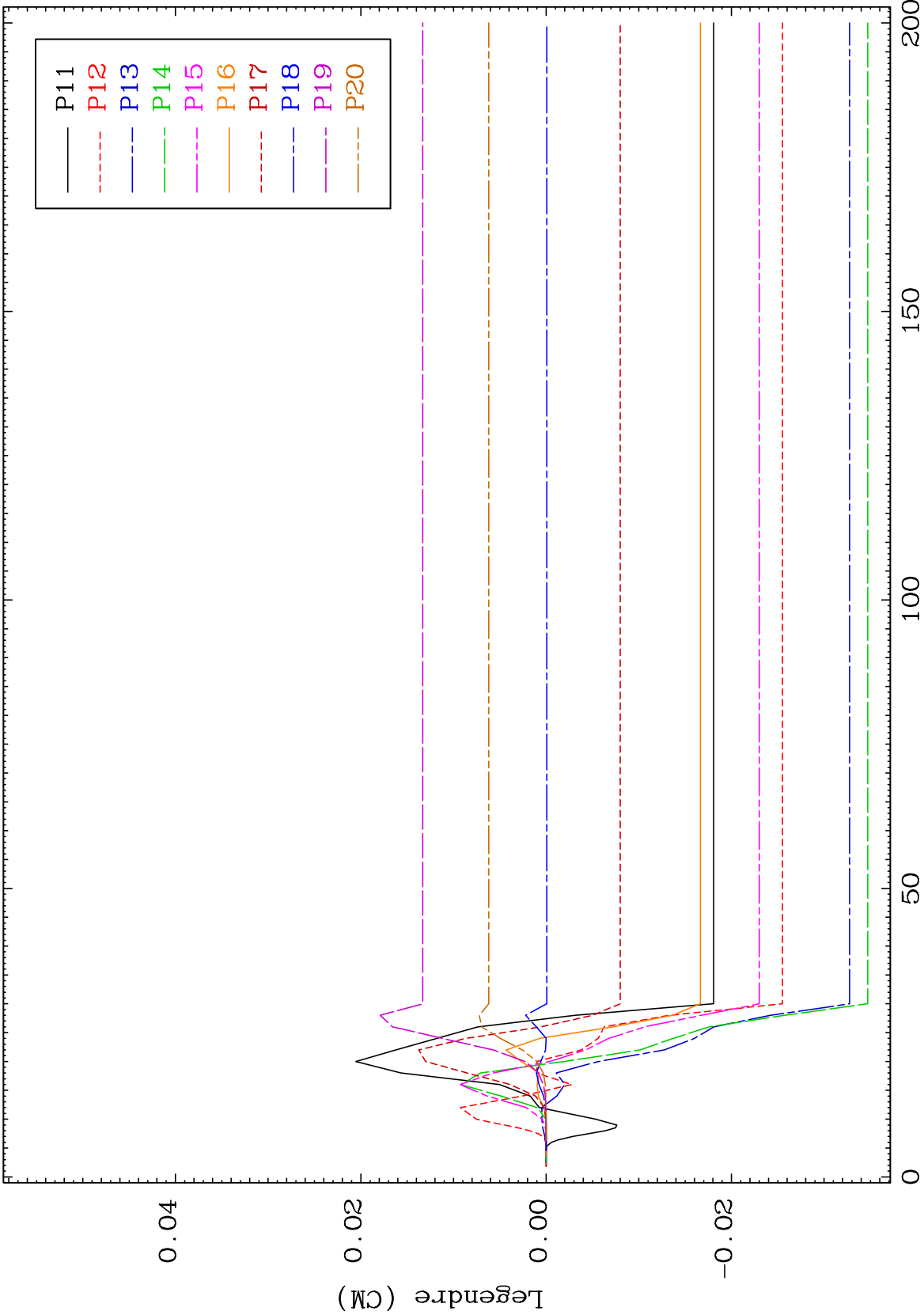
81-T1-193



MAT 8095

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

81-Tl-193



109

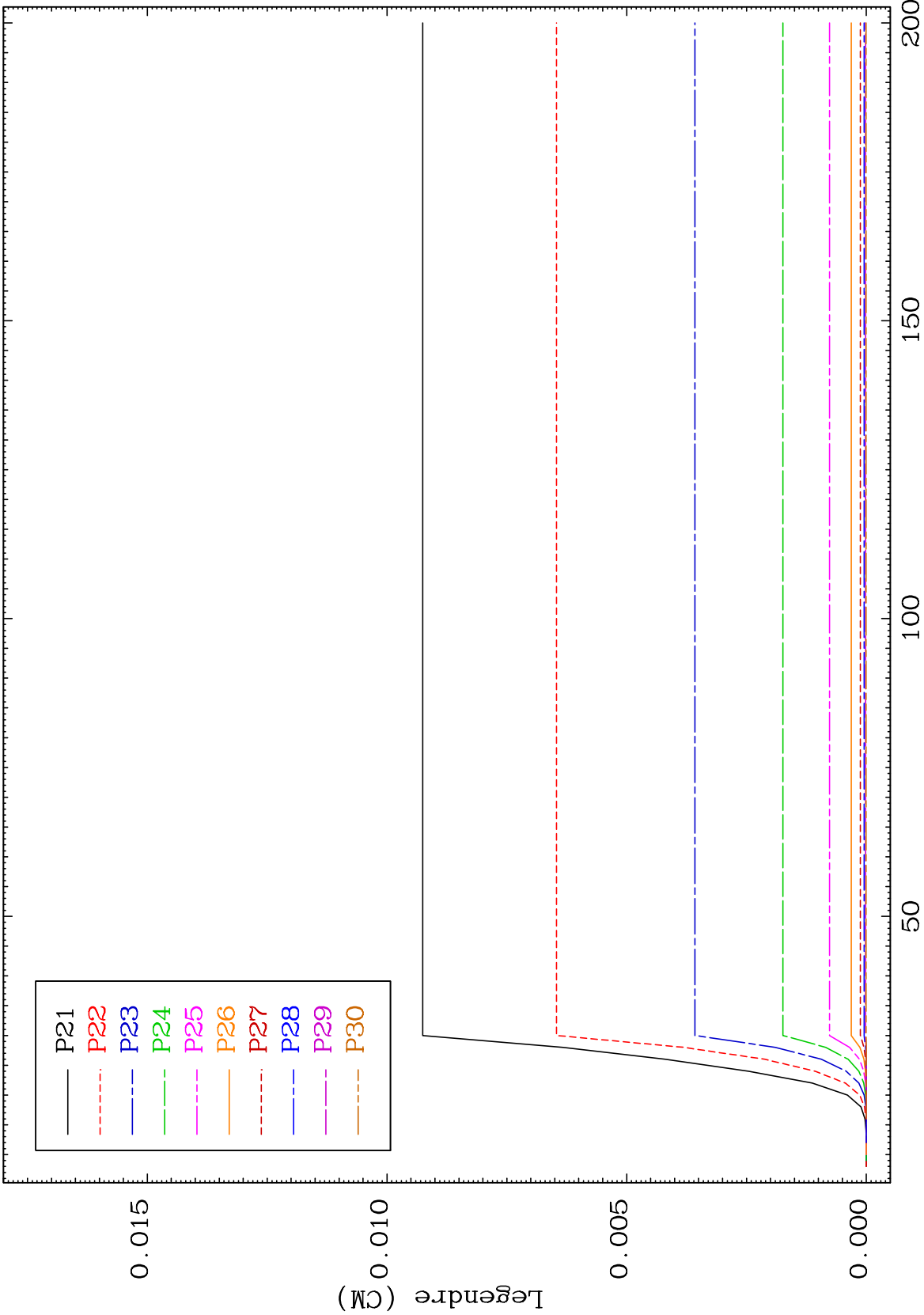
Incident Energy (MeV)

81-Tl-193

MAT 8095

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

81-T1-193



110

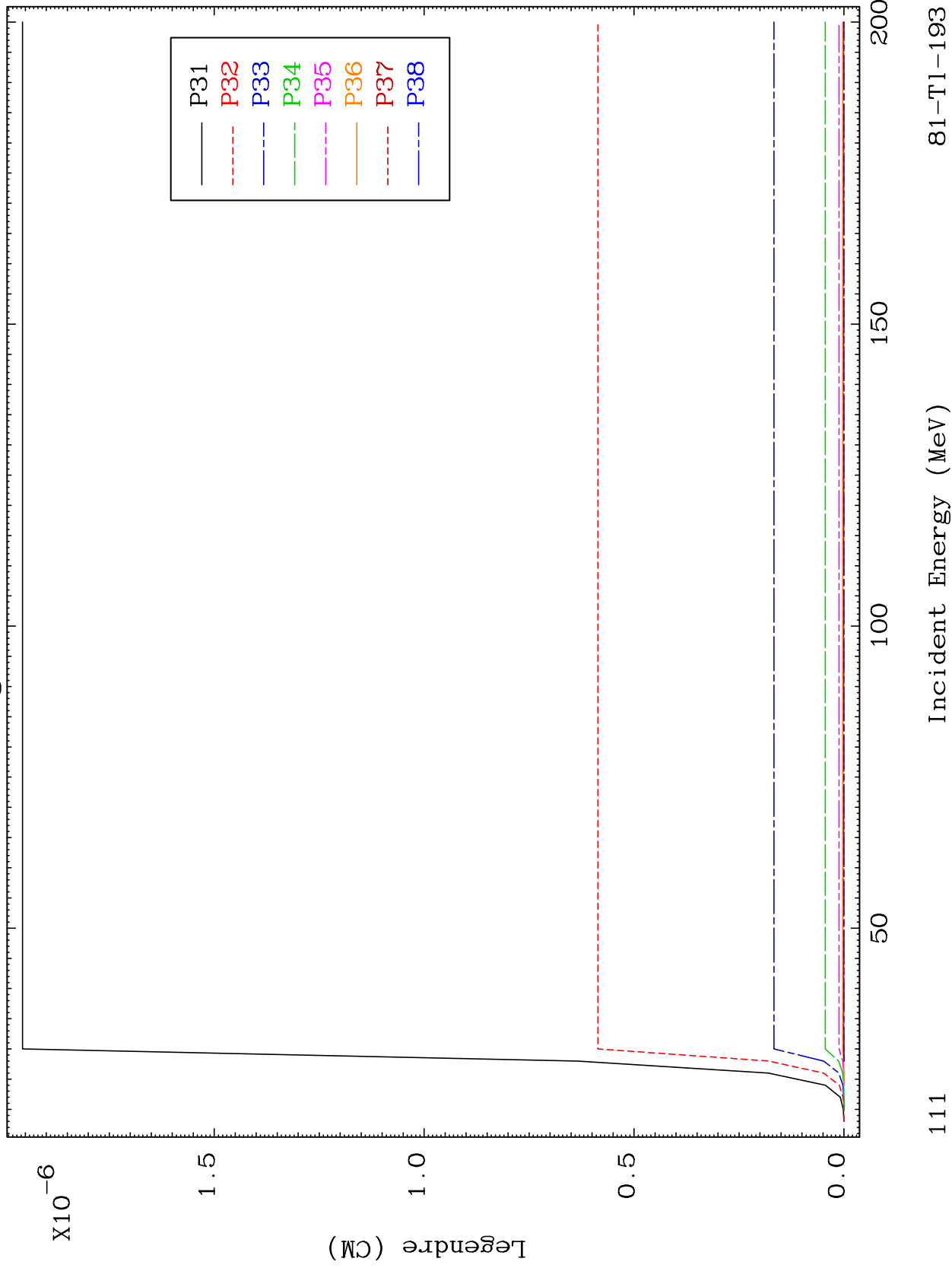
Incident Energy (MeV)

81-T1-193

MAT 8095

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

81-T1-193



111

Incident Energy (MeV)

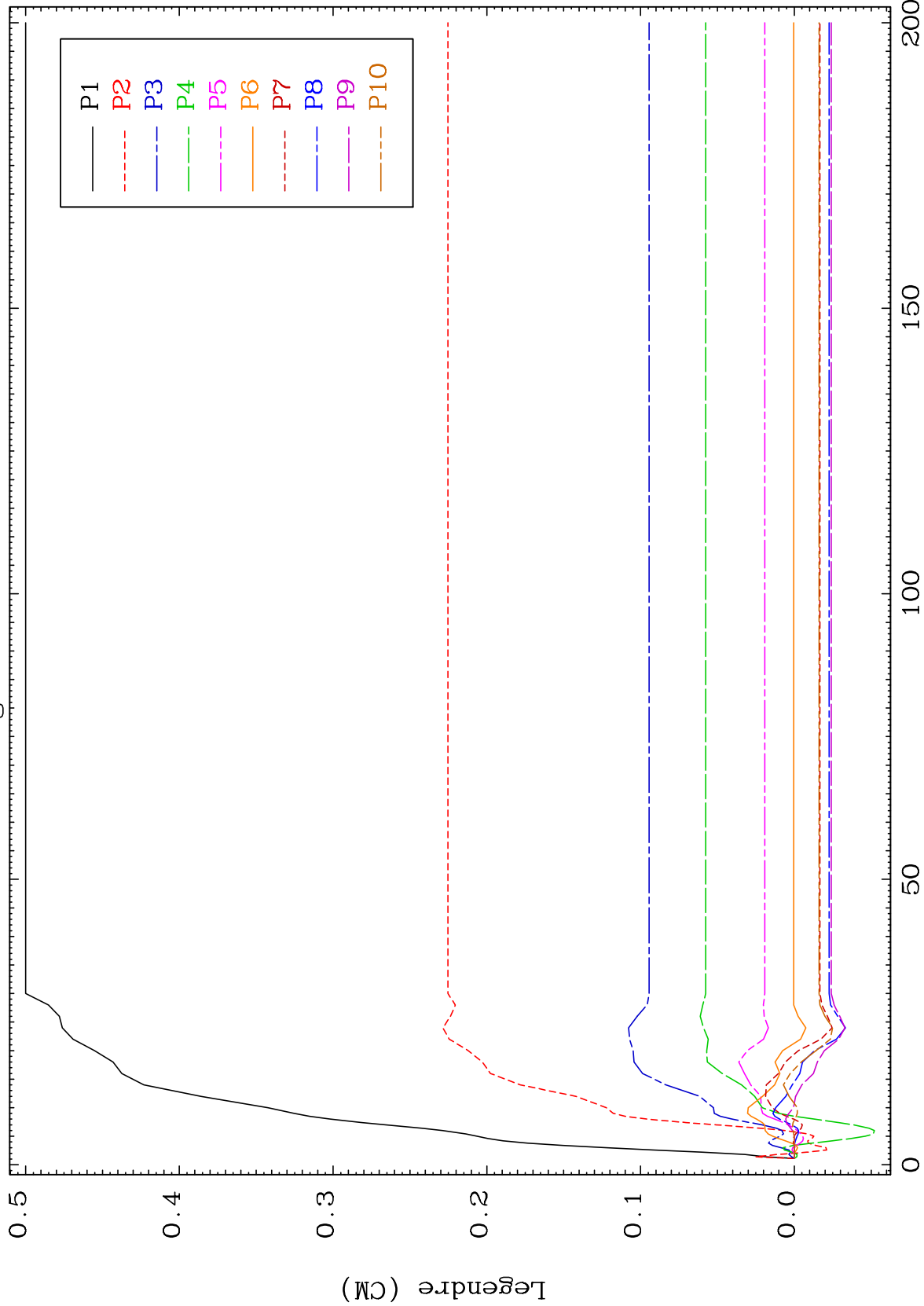
81-T1-193

MAT 8095

MT= 74 (n,n') Level

81-Tl-193

Legendre Coefficients



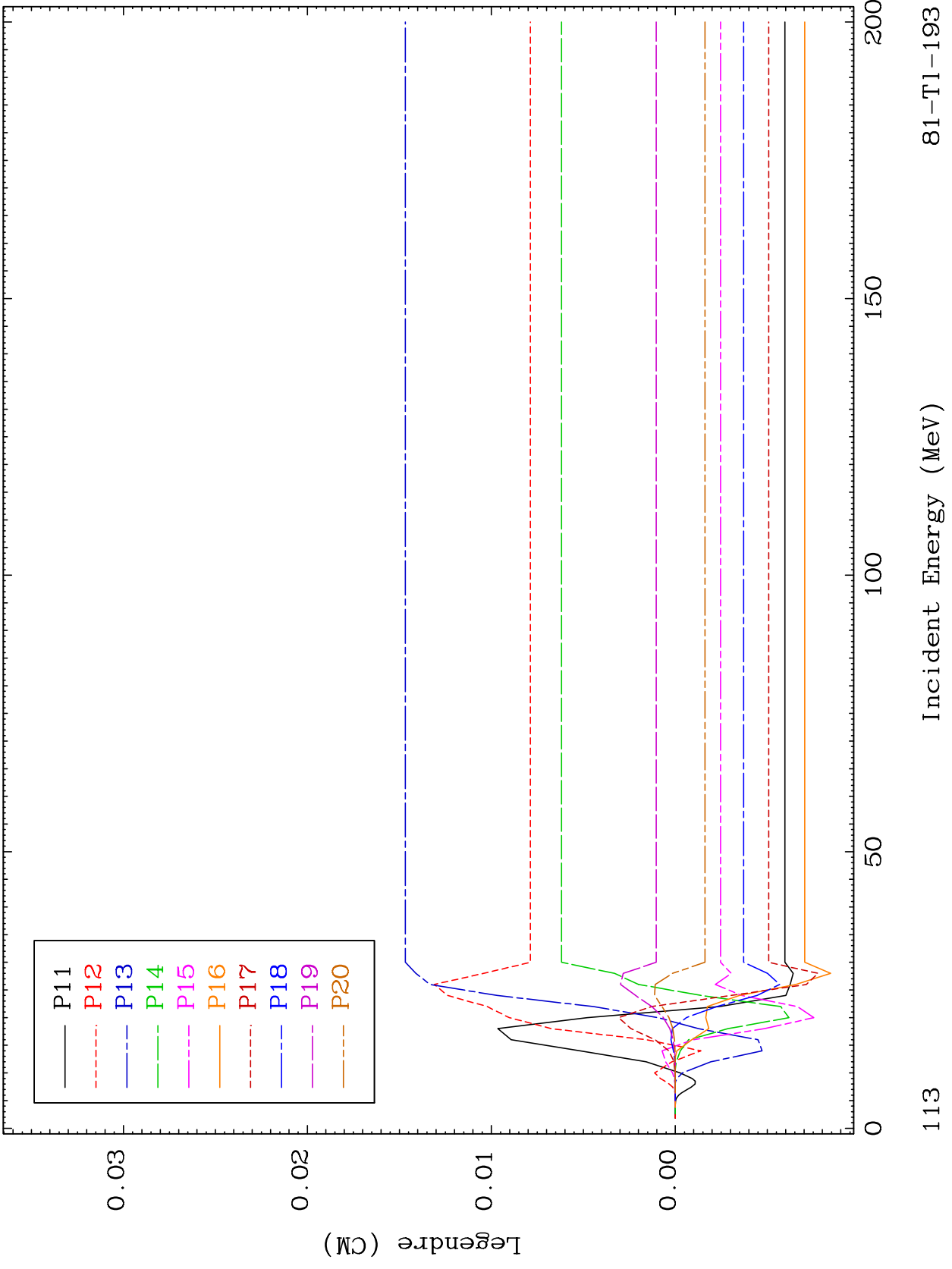
112

81-Tl-193

MAT 8095

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

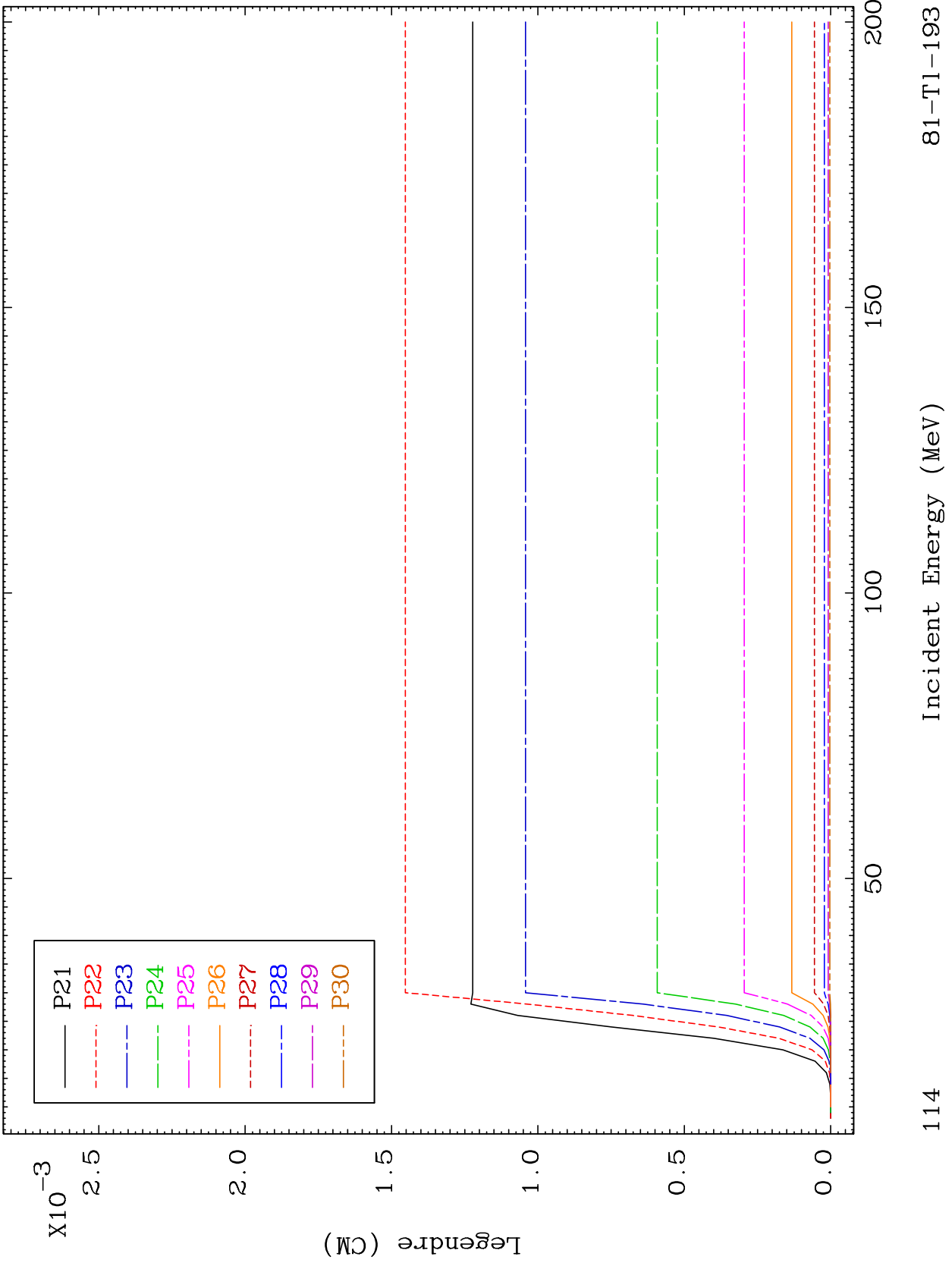
81-Tl-193



113

Incident Energy (MeV)

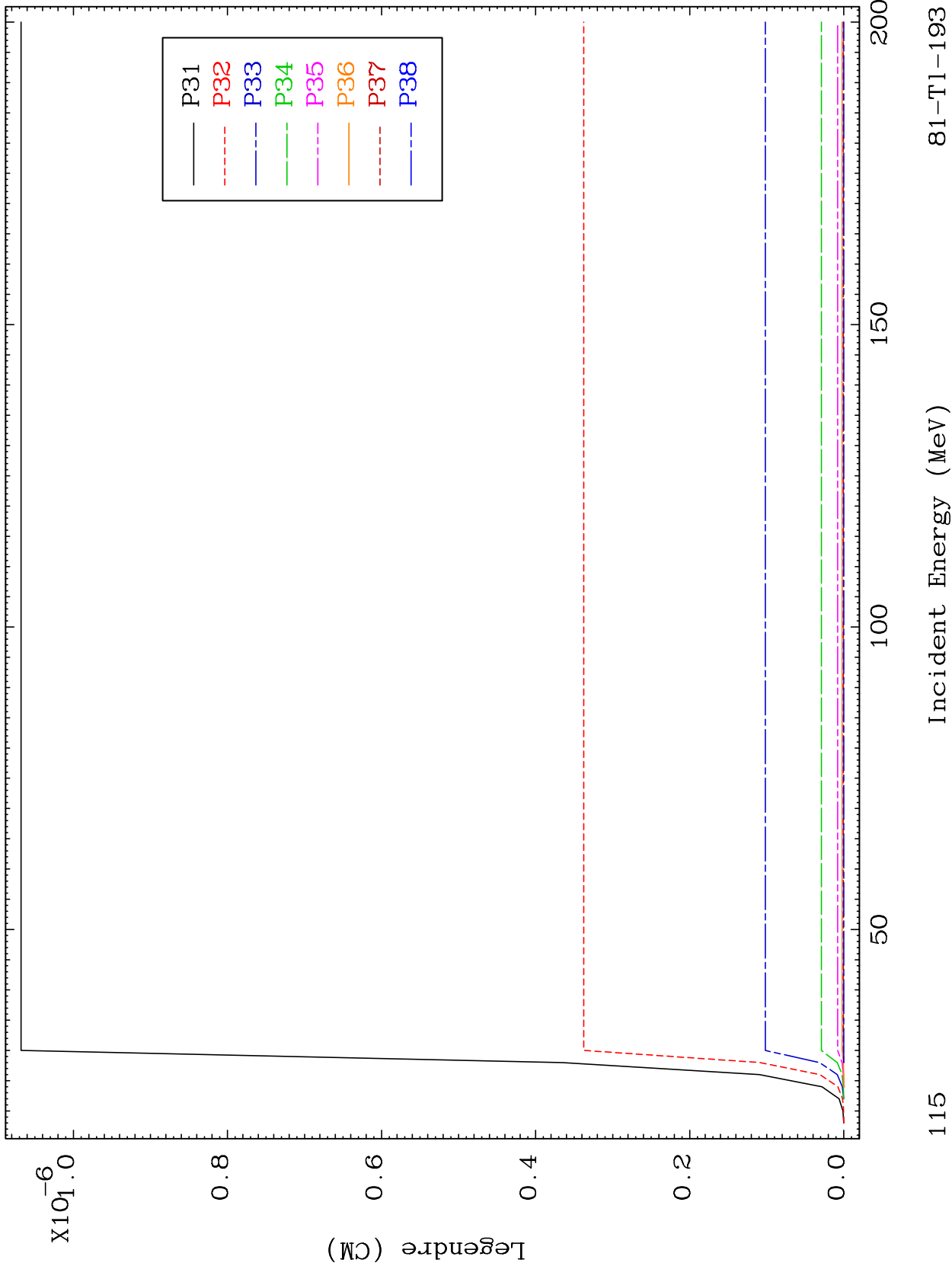
81-Tl-193



MAT 8095

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

81-Tl-193



81-Tl-193

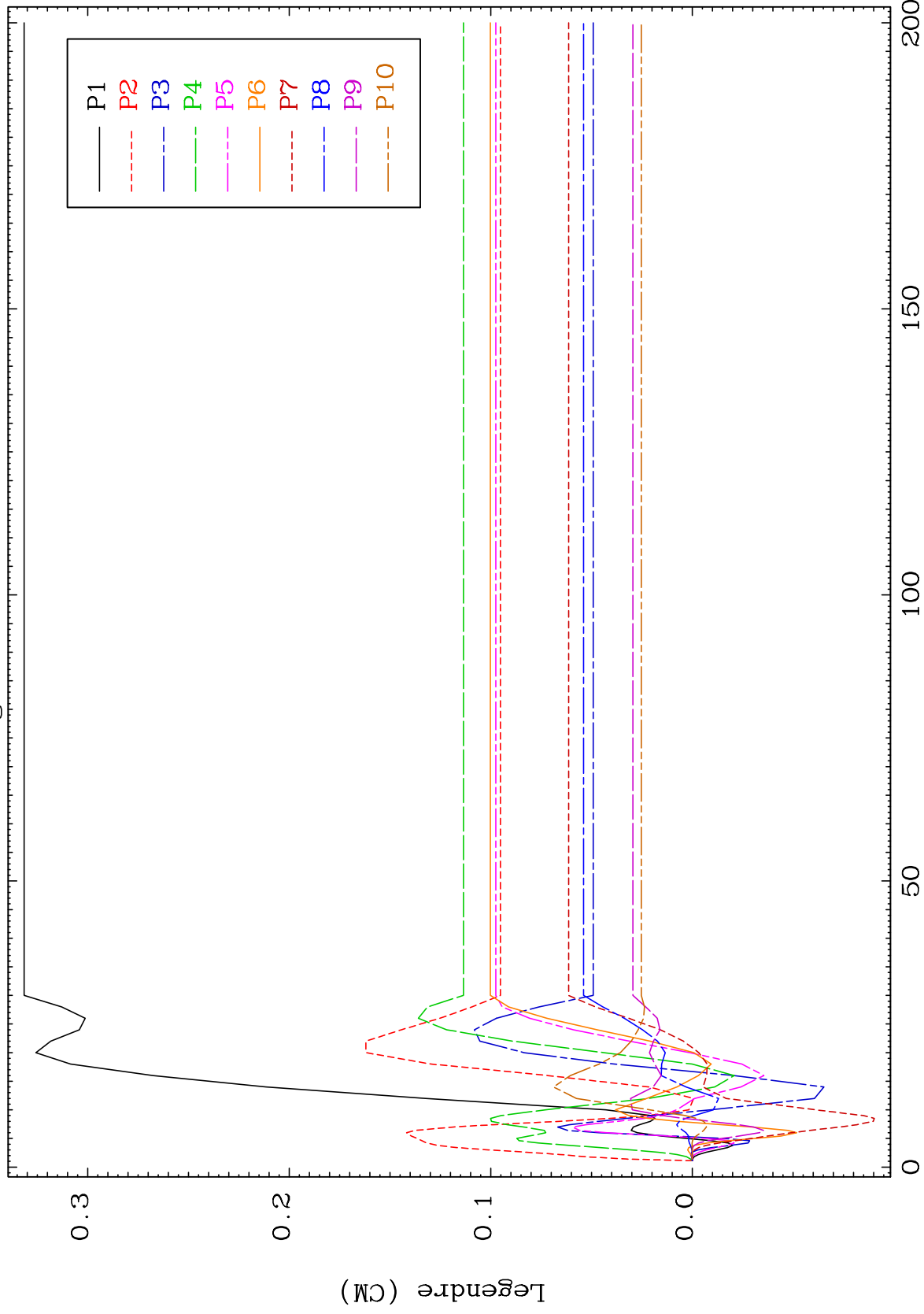
Incident Energy (MeV)

115

MAT 8095

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

81-Tl-193



81-Tl-193

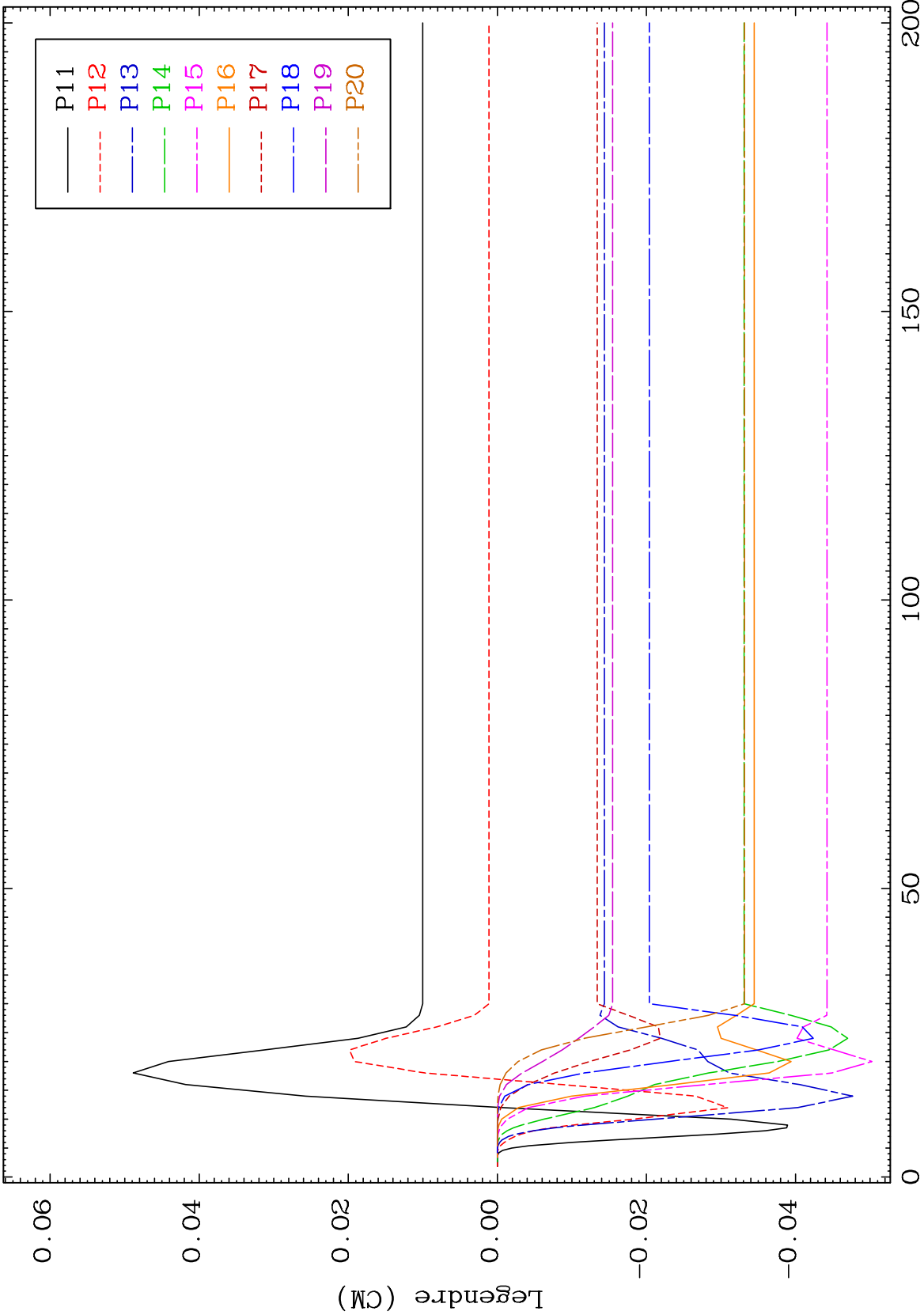
Incident Energy (MeV)

116

MAT 8095

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

81-T1-193



117

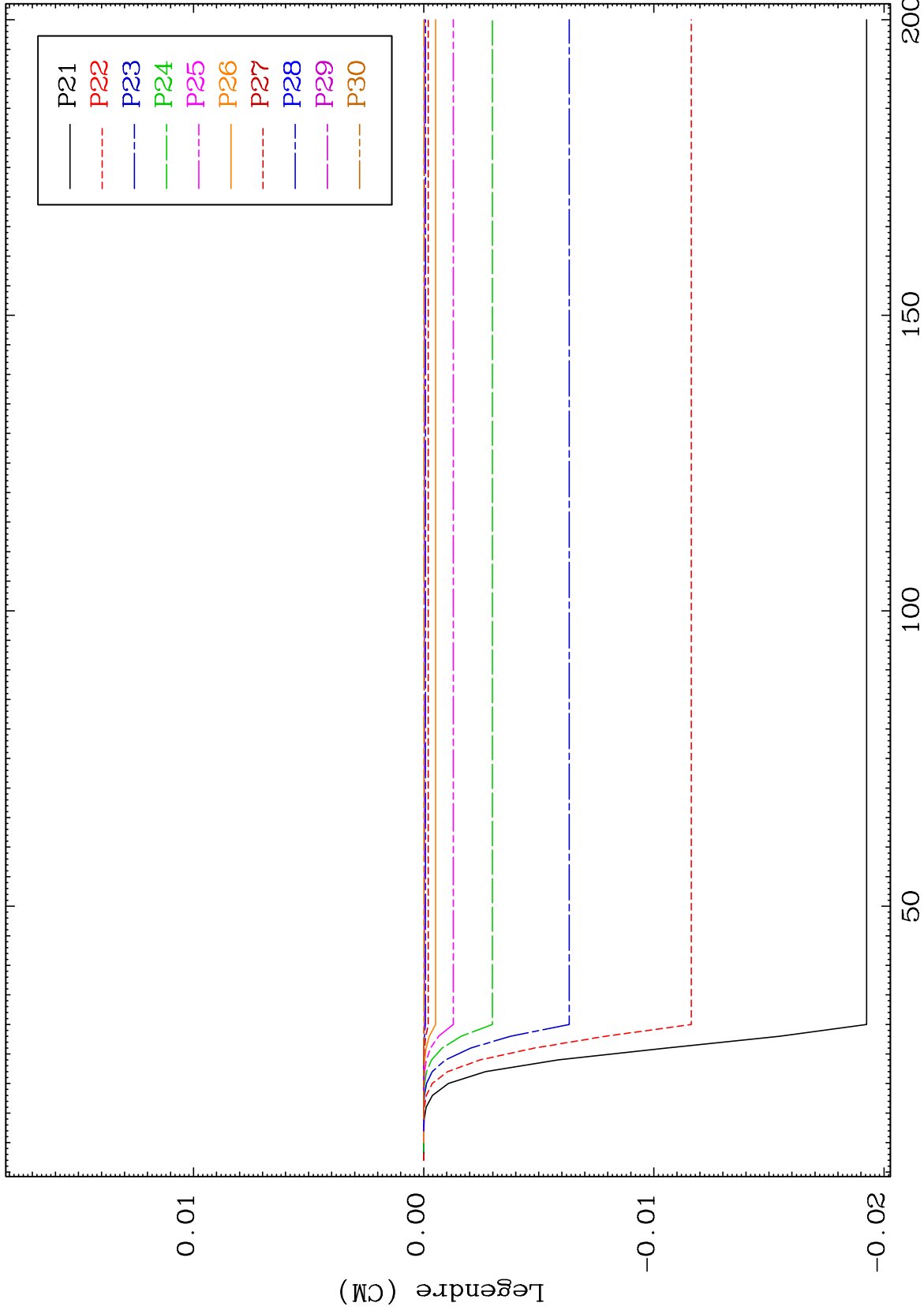
Incident Energy (MeV)

81-T1-193

MAT 8095

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

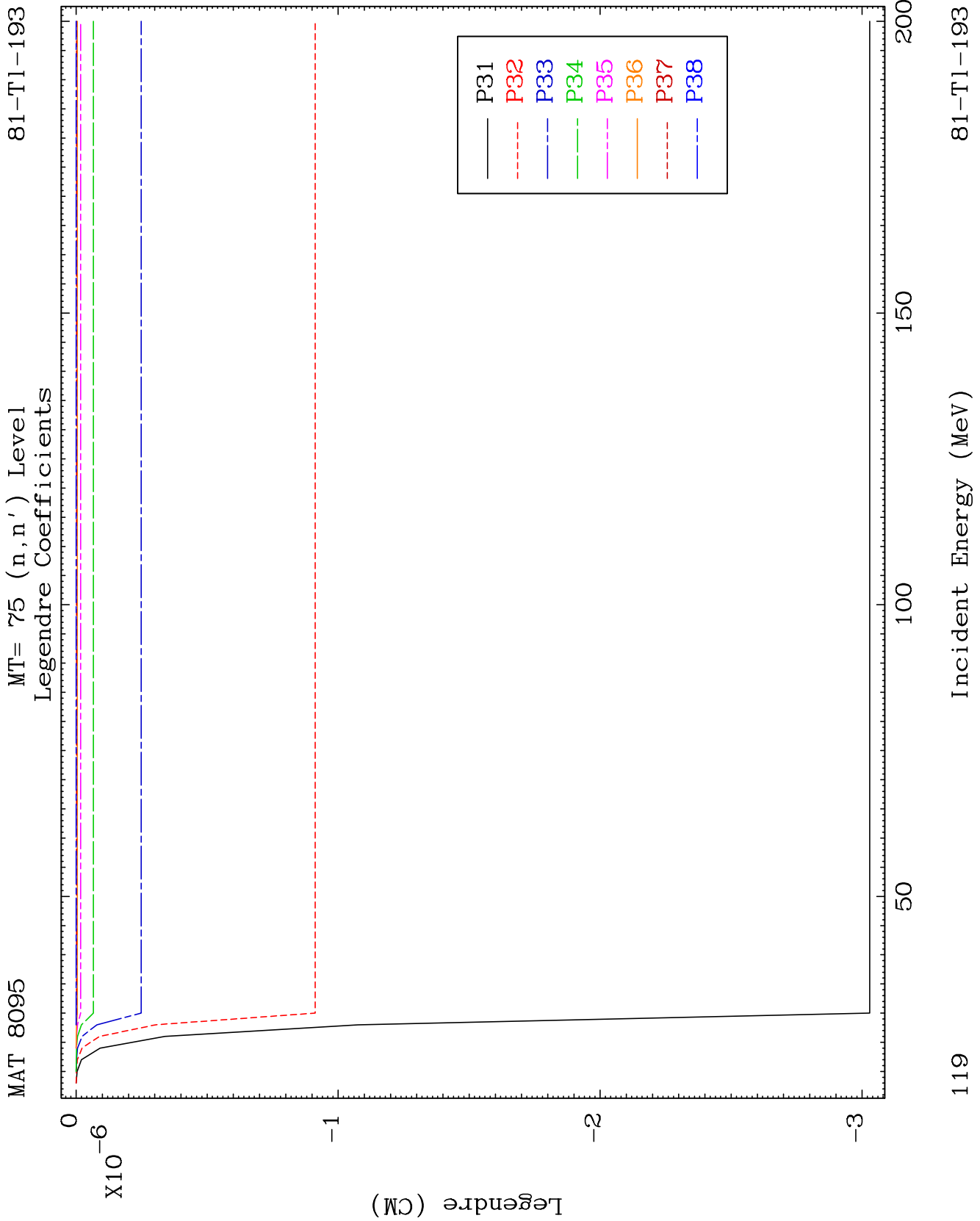
81-Tl-193



118

Incident Energy (MeV)

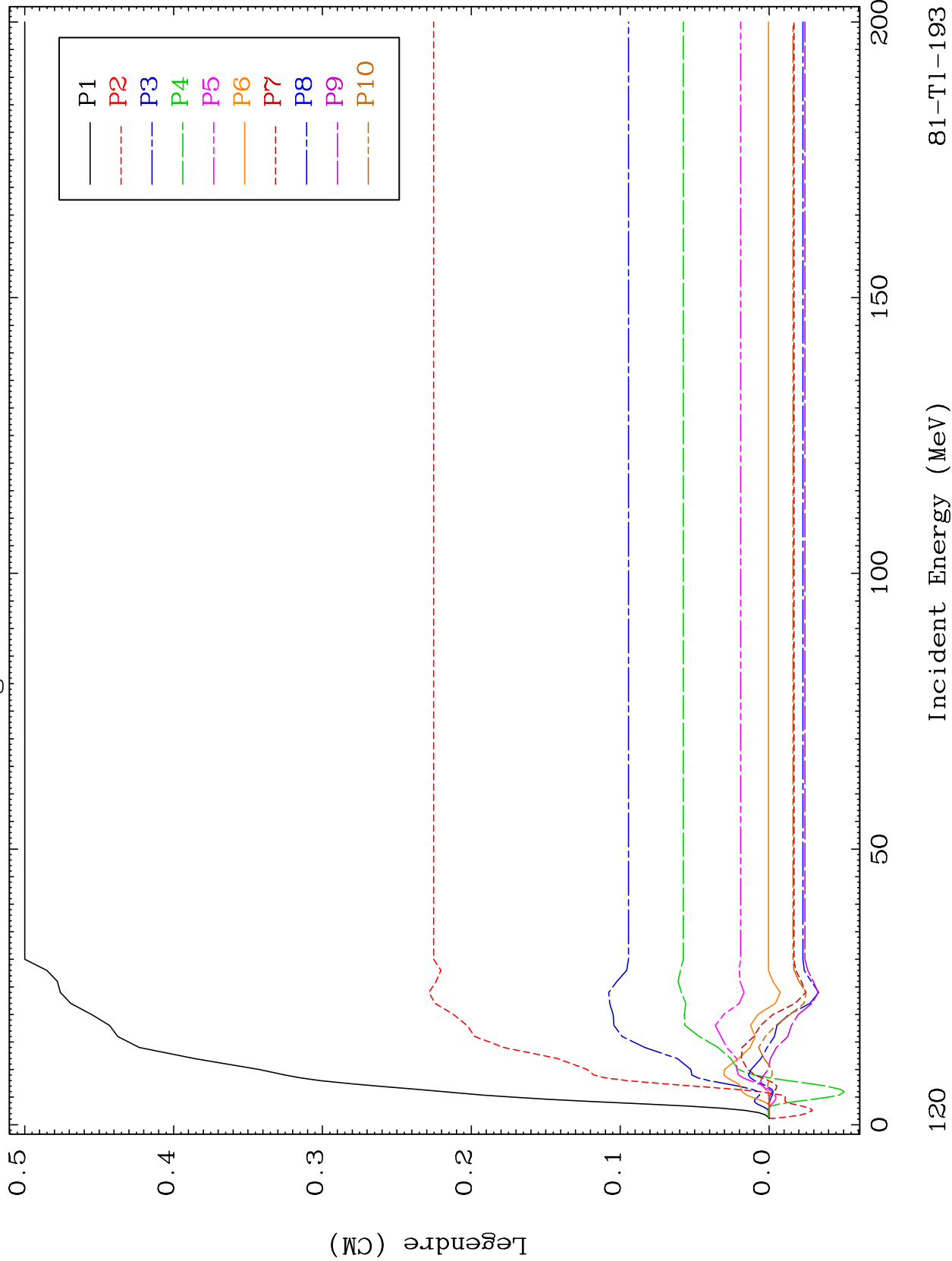
81-Tl-193



MAT 8095

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

81-Tl-193



81-Tl-193

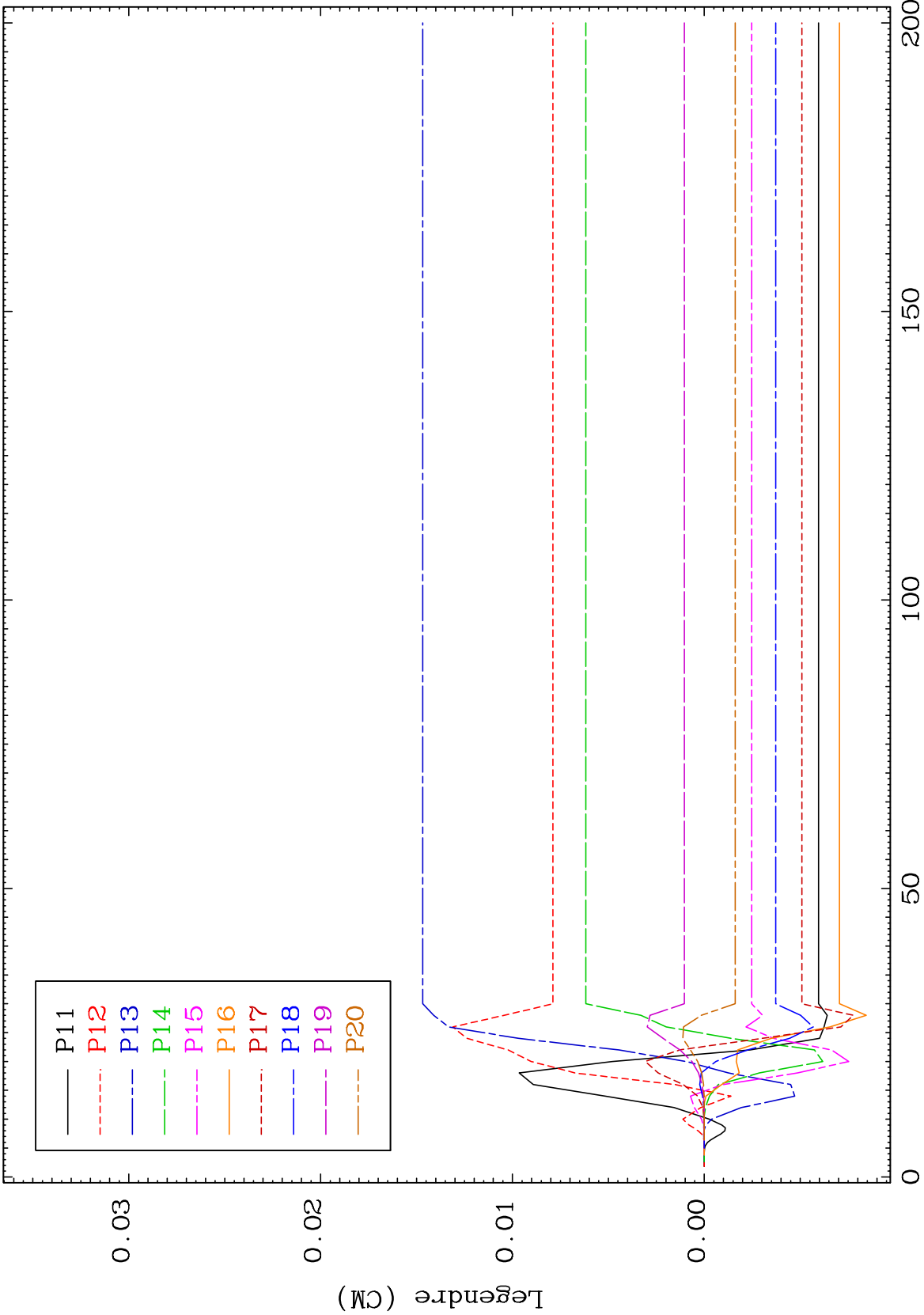
Incident Energy (MeV)

120

MAT 8095

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

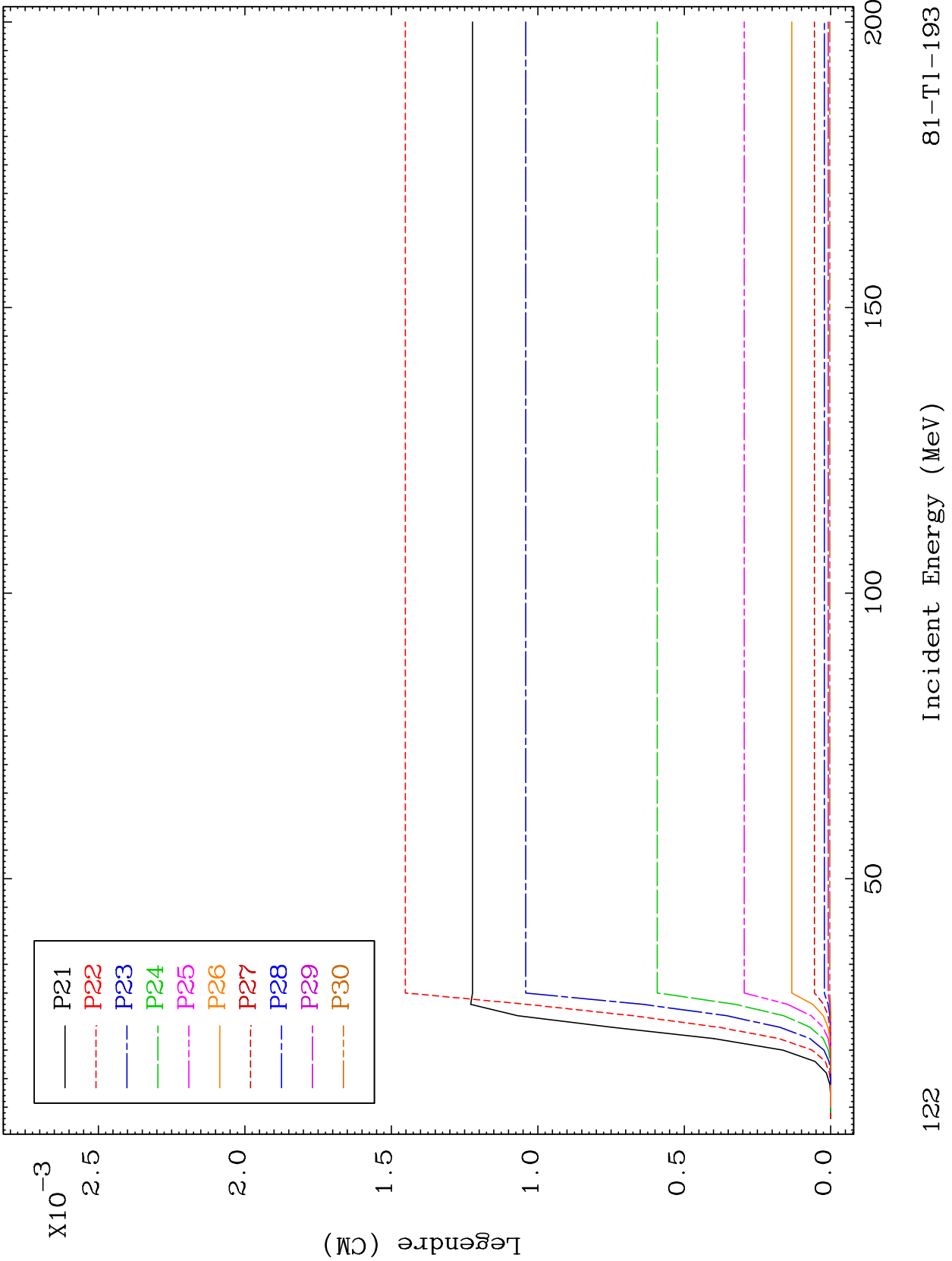
81-T1-193

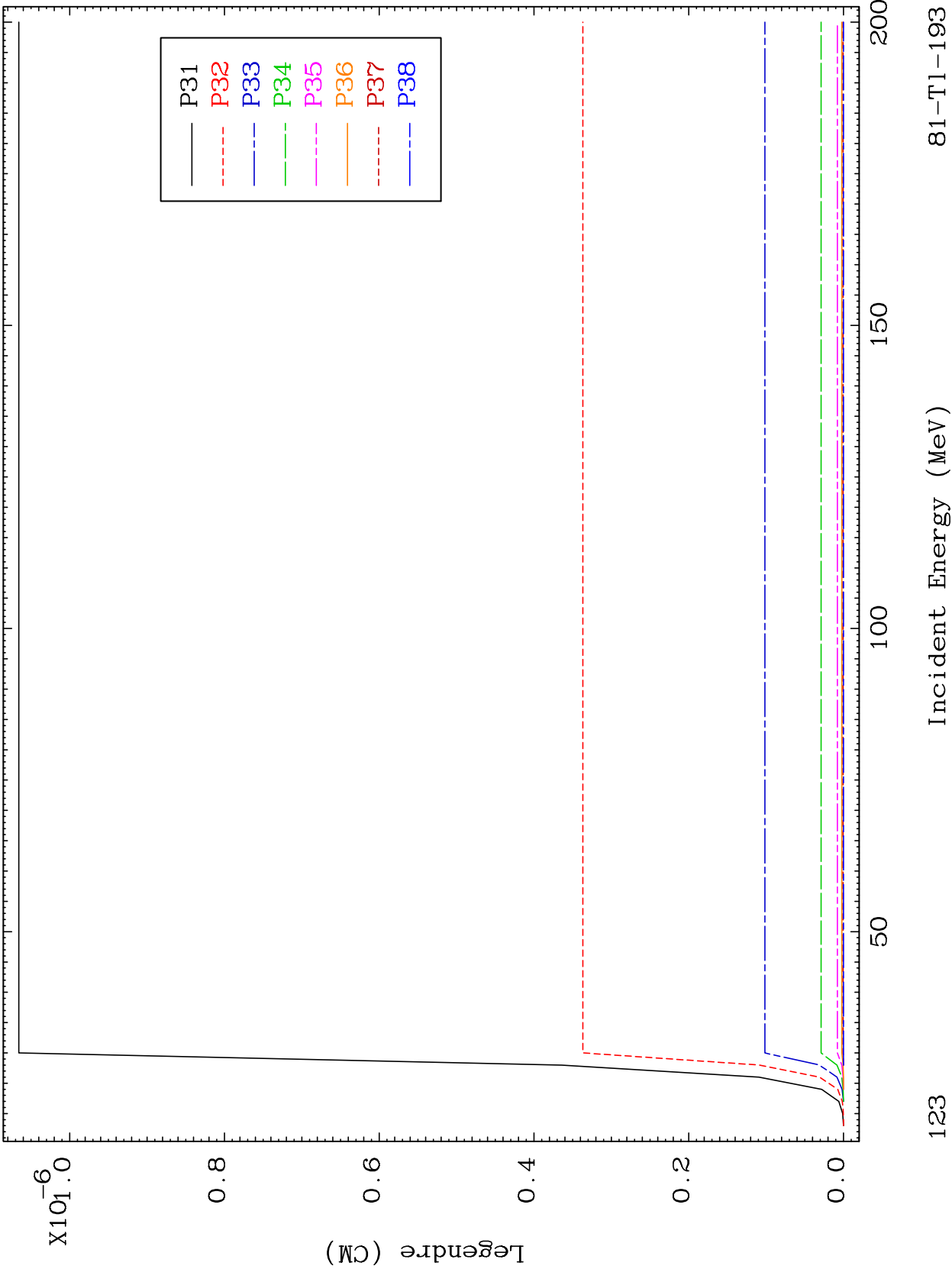


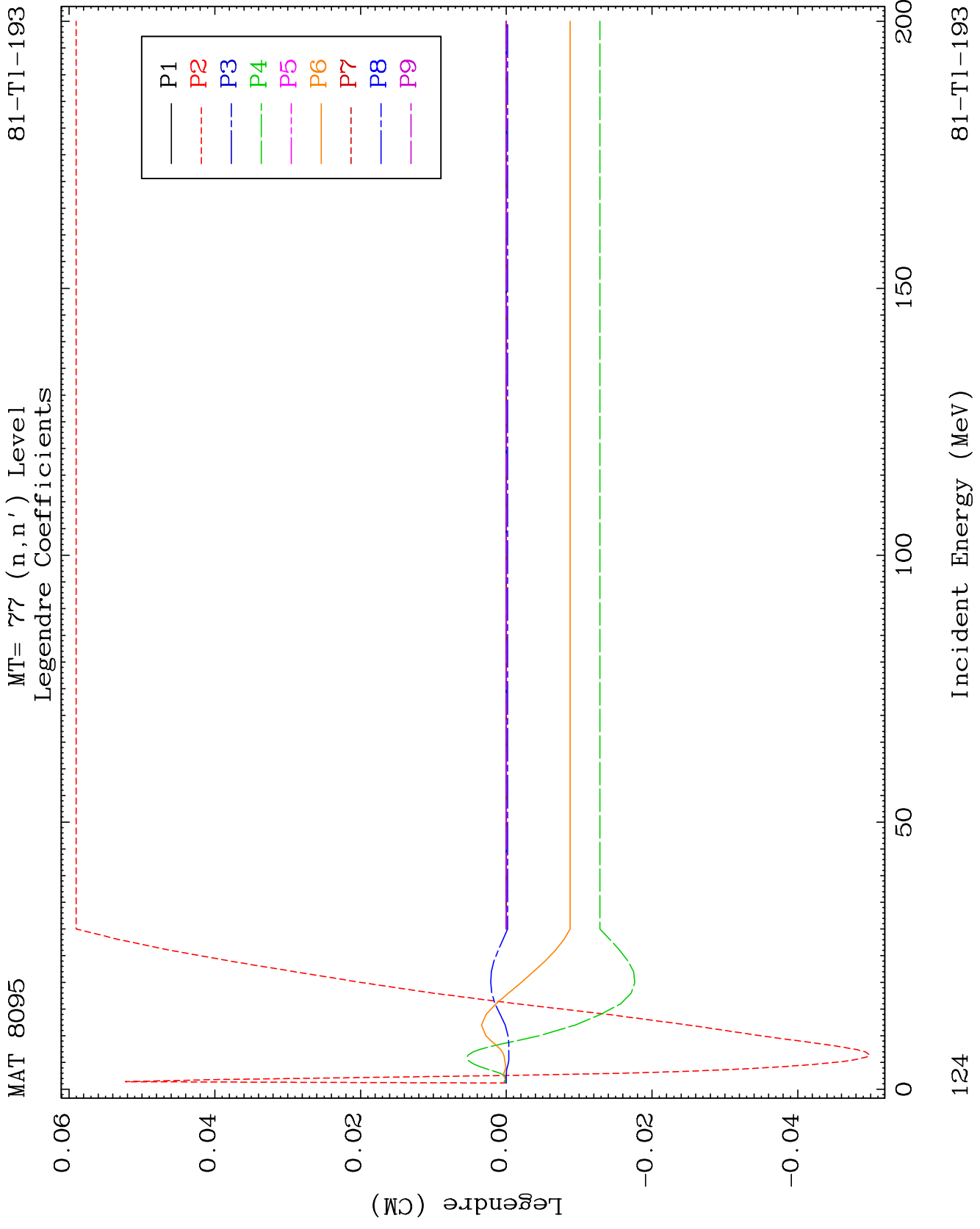
121

Incident Energy (MeV)

81-T1-193



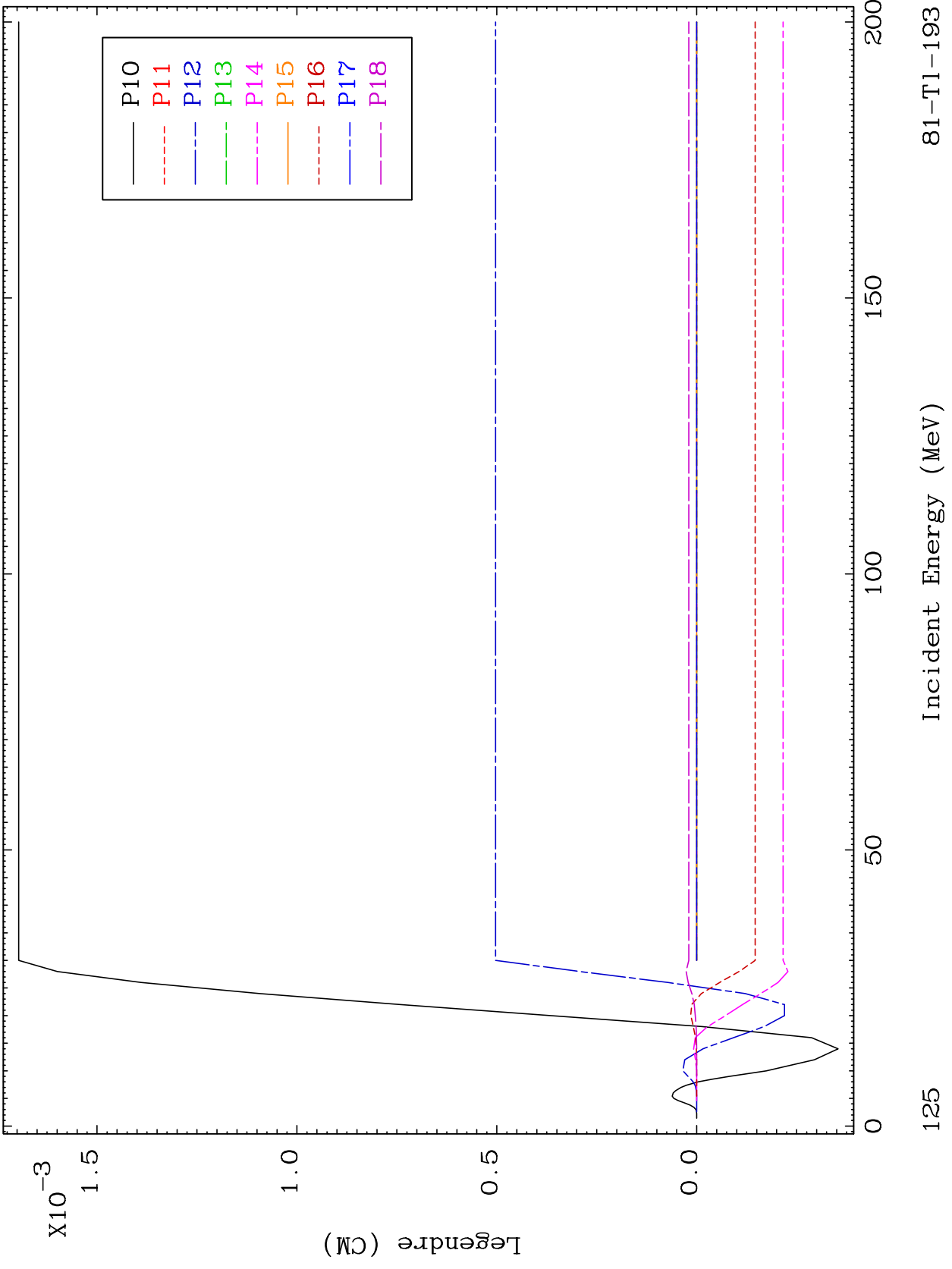




MAT 8095

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

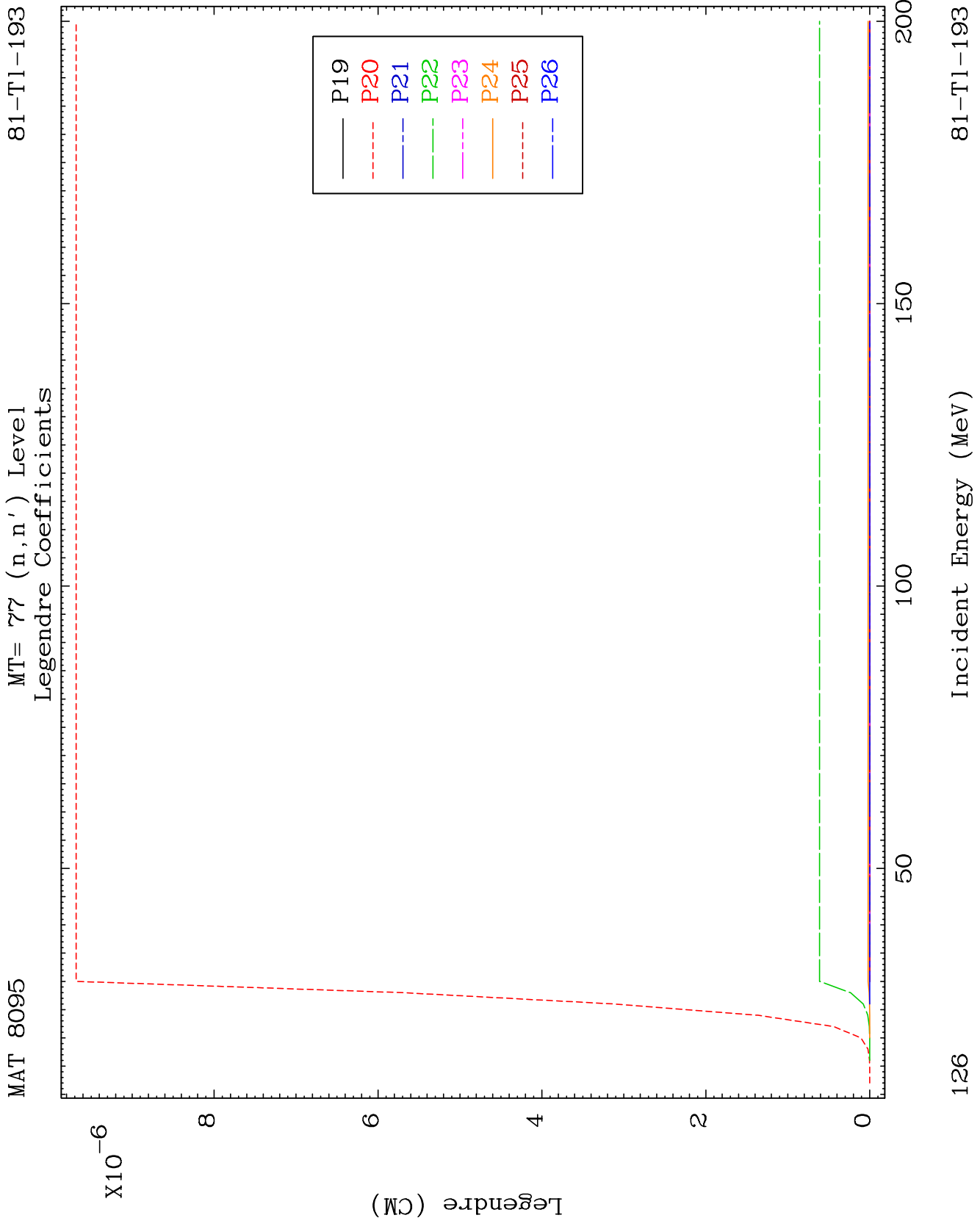
81-Tl-193



81-Tl-193

Incident Energy (MeV)

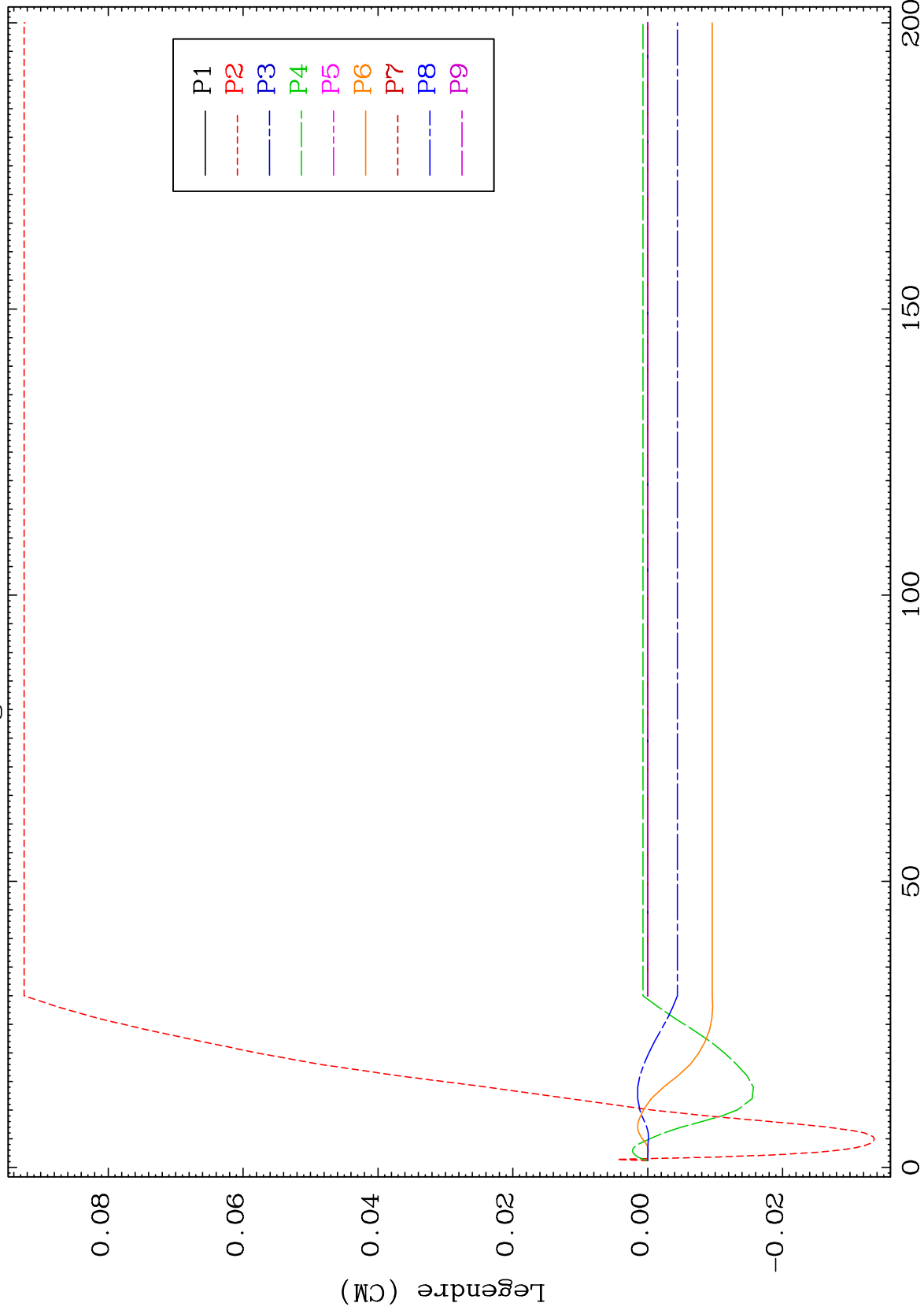
125



MAT 8095

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

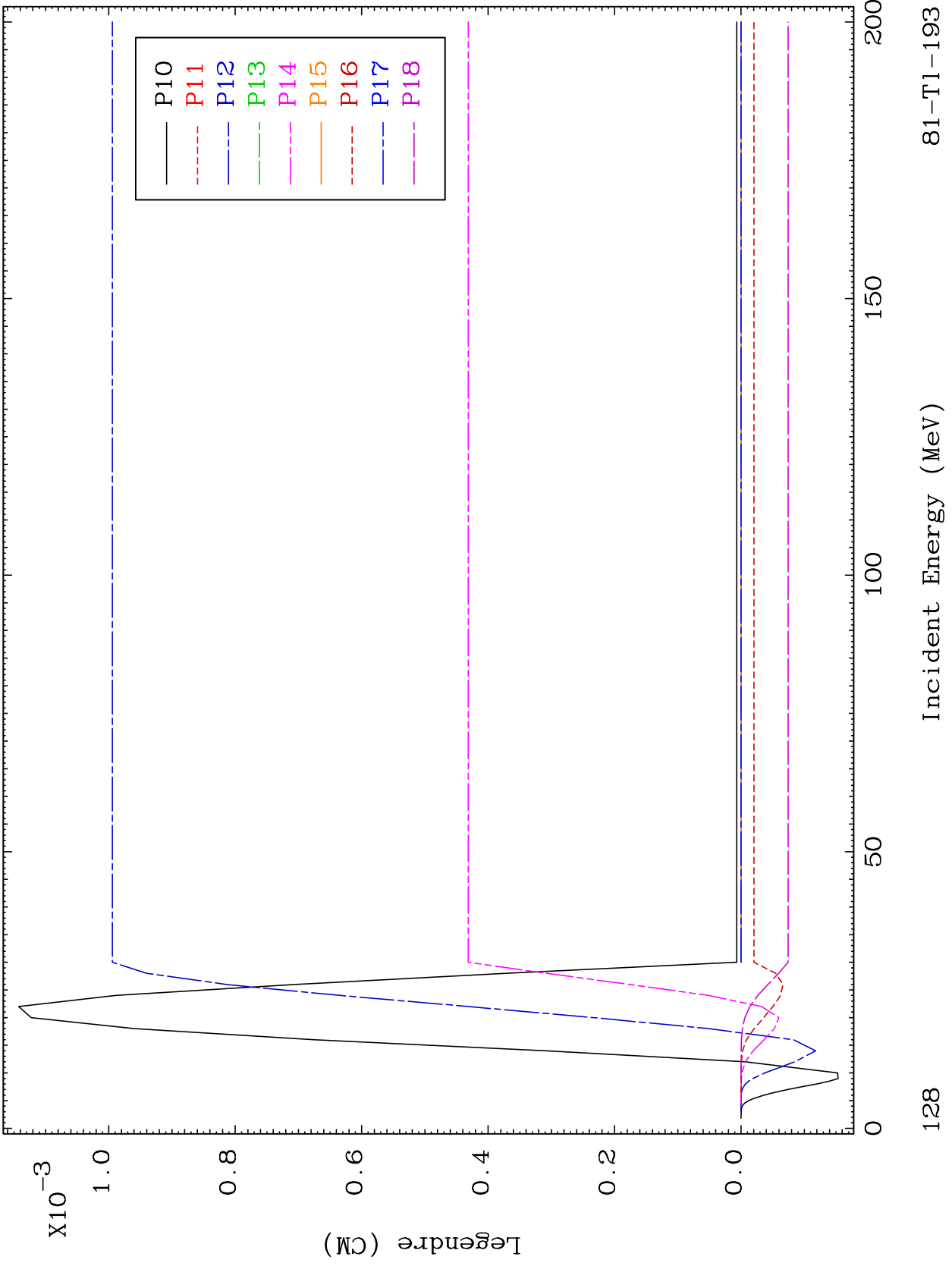
81-T1-193

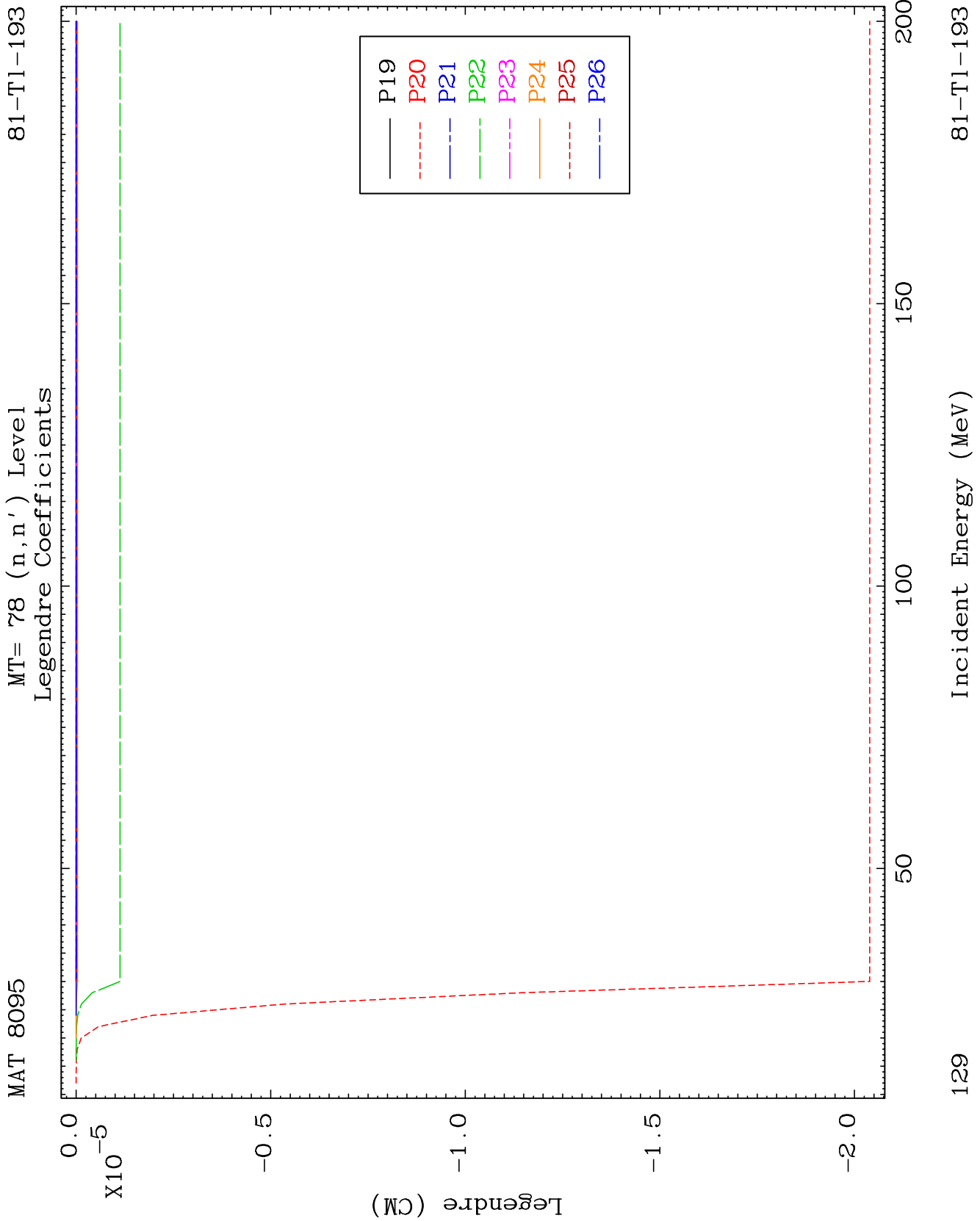


127

Incident Energy (MeV)

81-T1-193

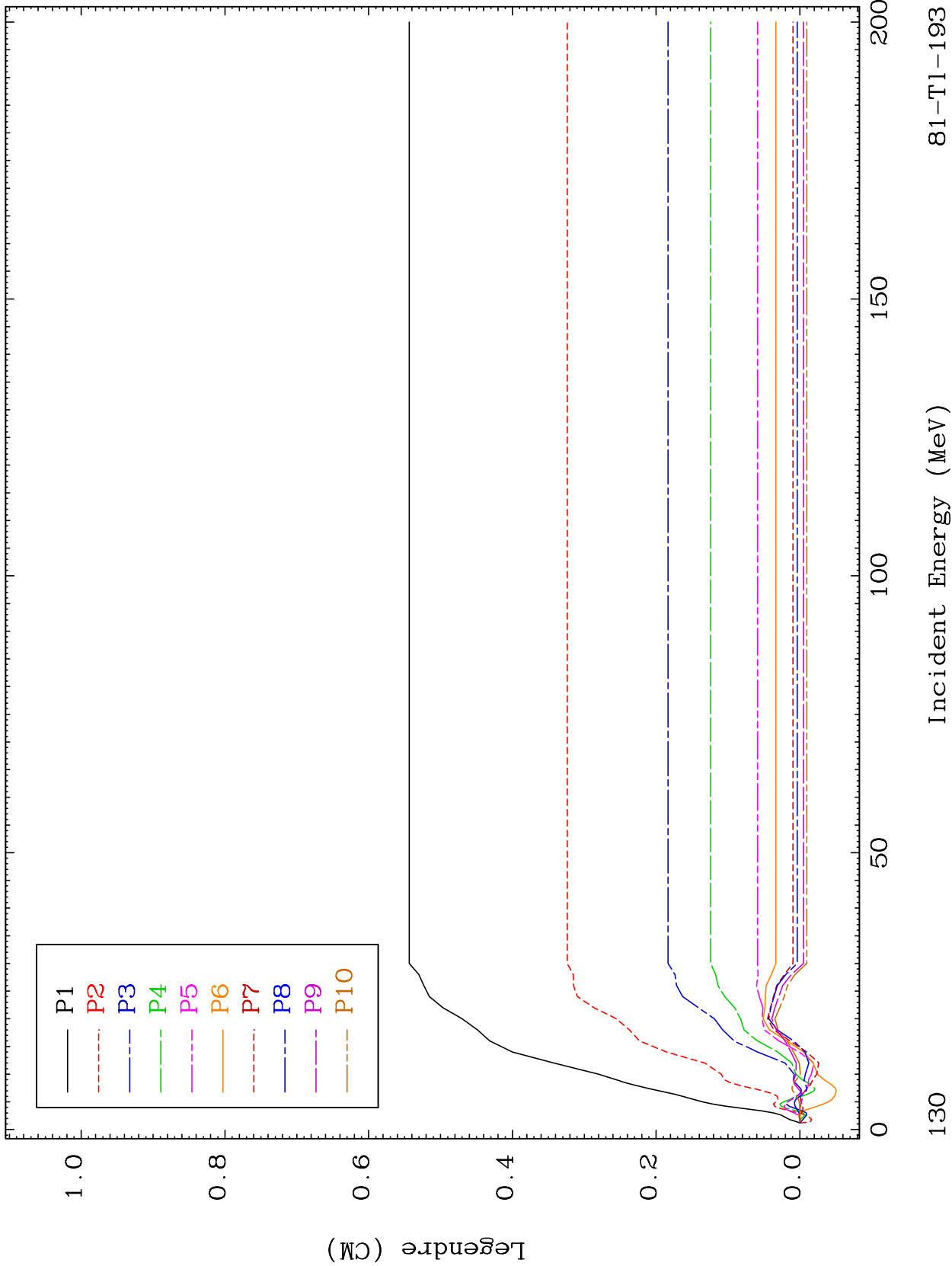




MAT 8095

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

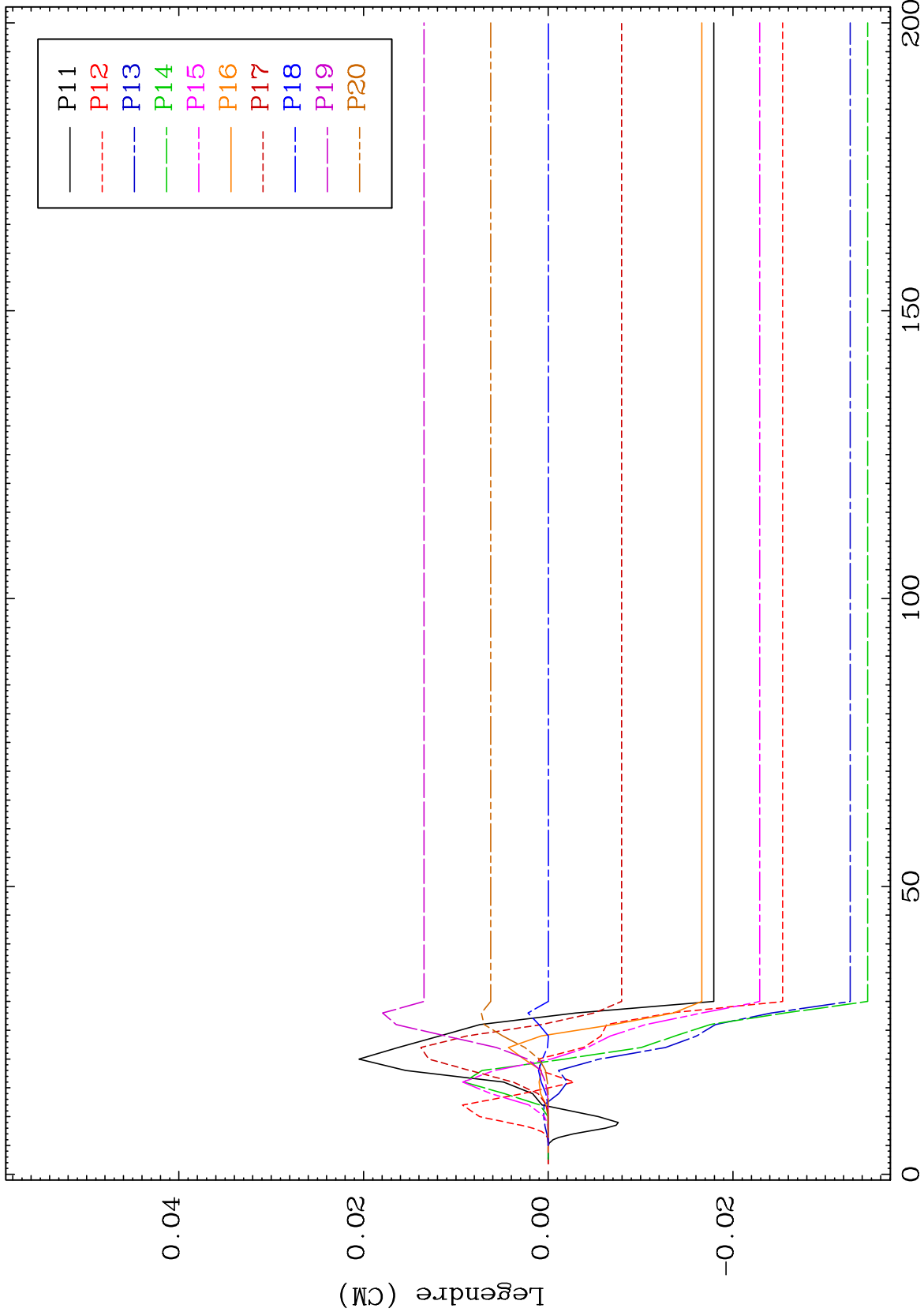
81-T1-193



MAT 8095

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

81-T1-193



131

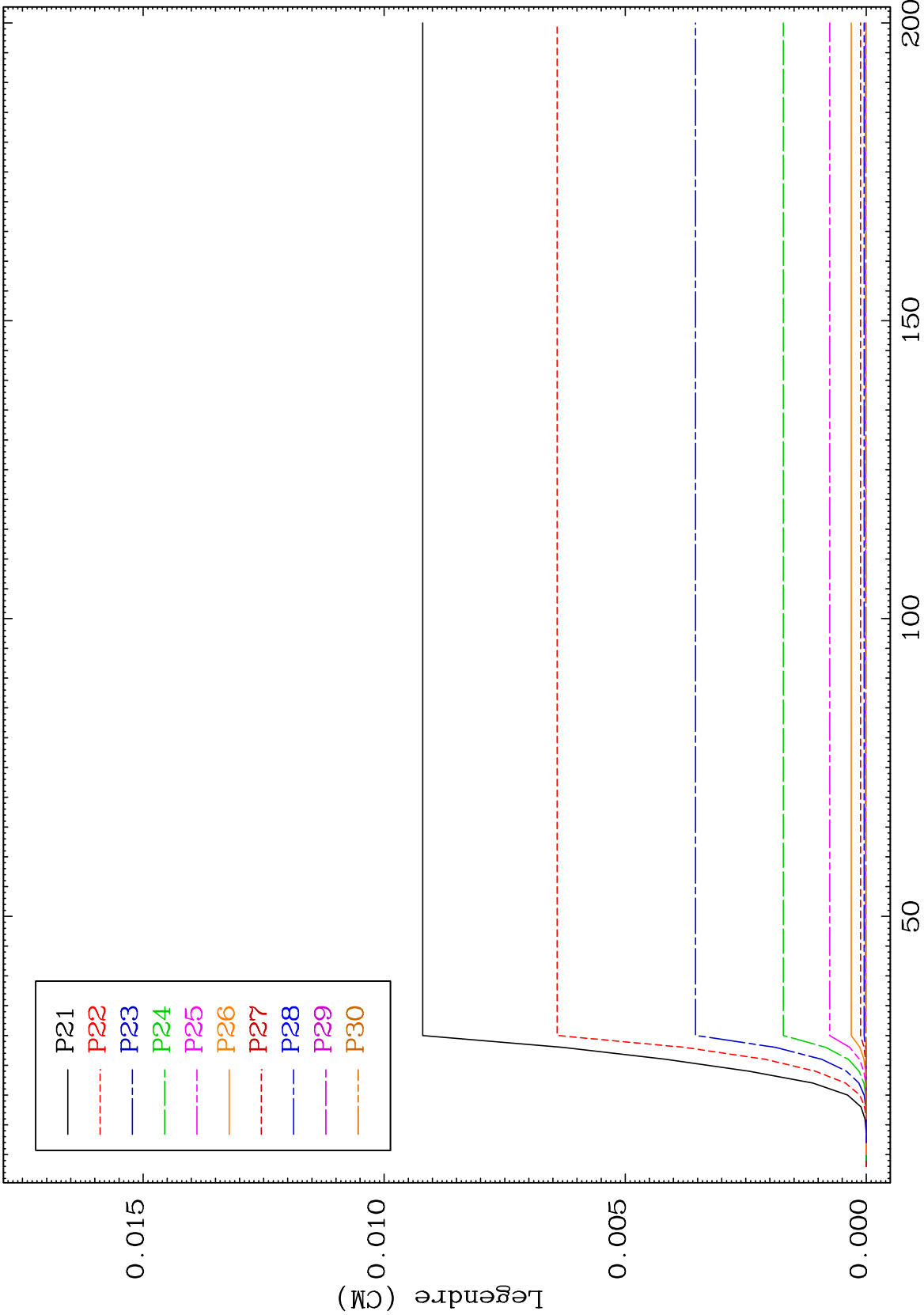
Incident Energy (MeV)

81-T1-193

MAT 8095

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

81-Tl-193



132

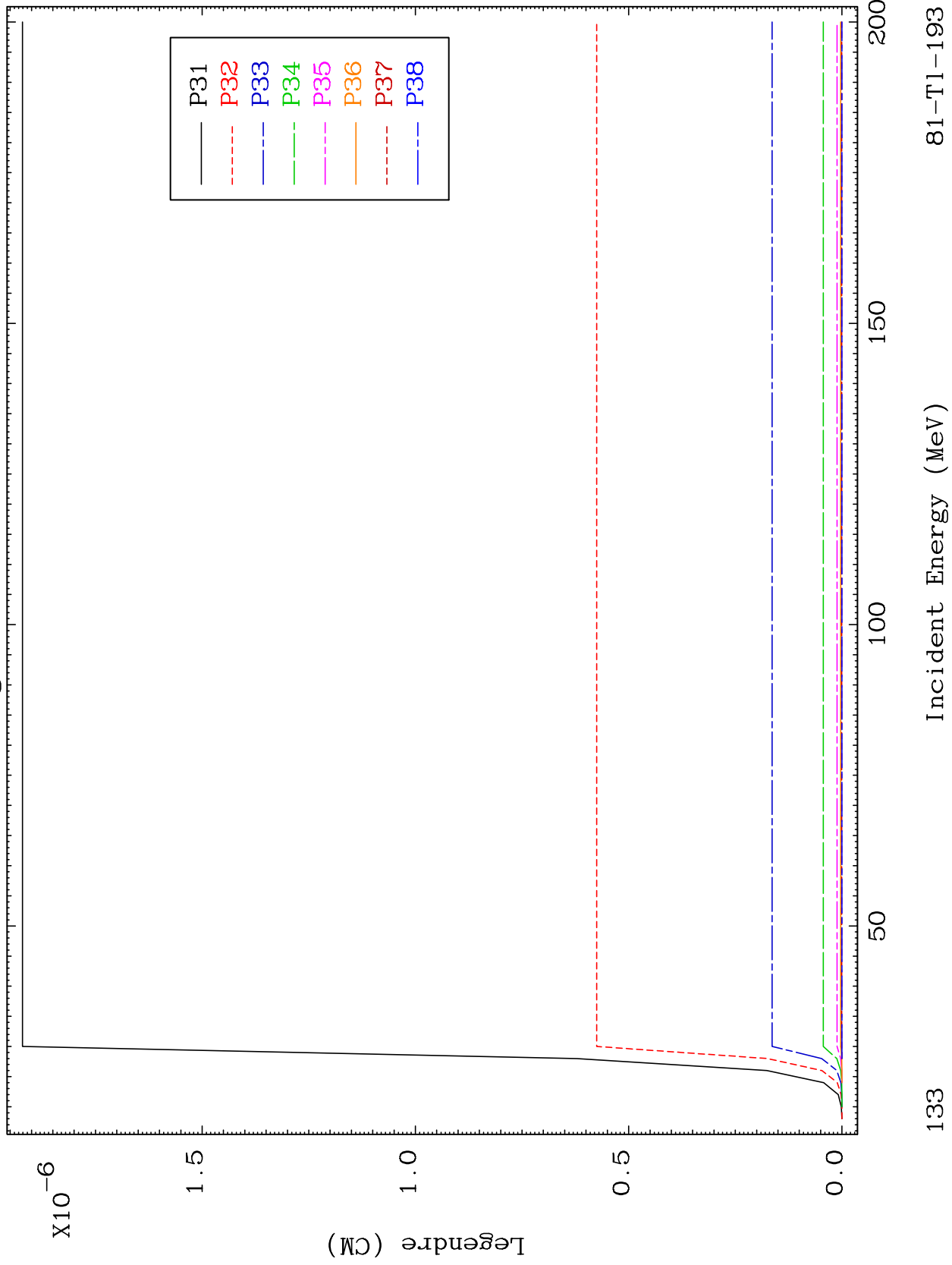
Incident Energy (MeV)

81-Tl-193

MAT 8095

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

81-Tl-193

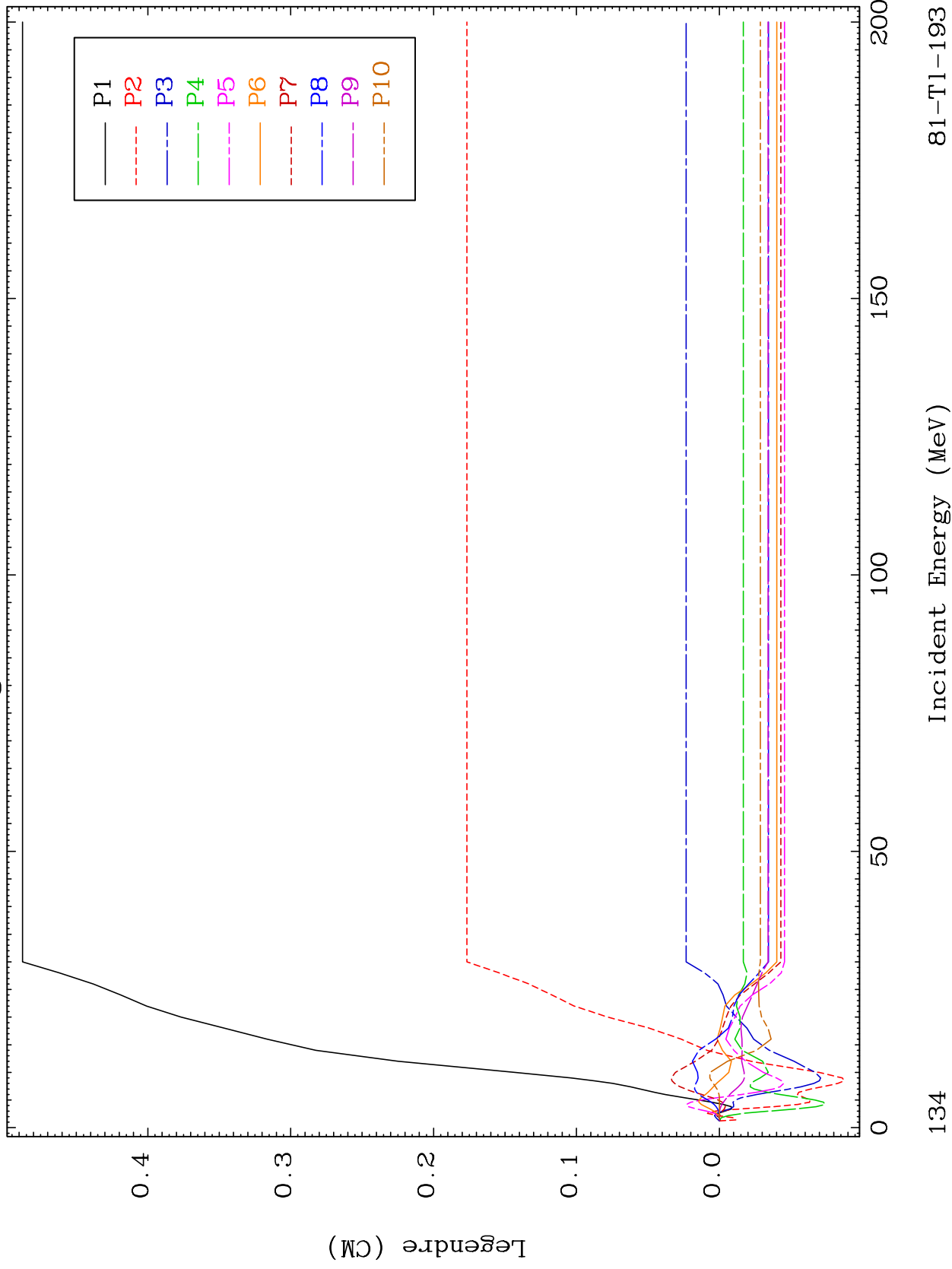


133

MAT 8095

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

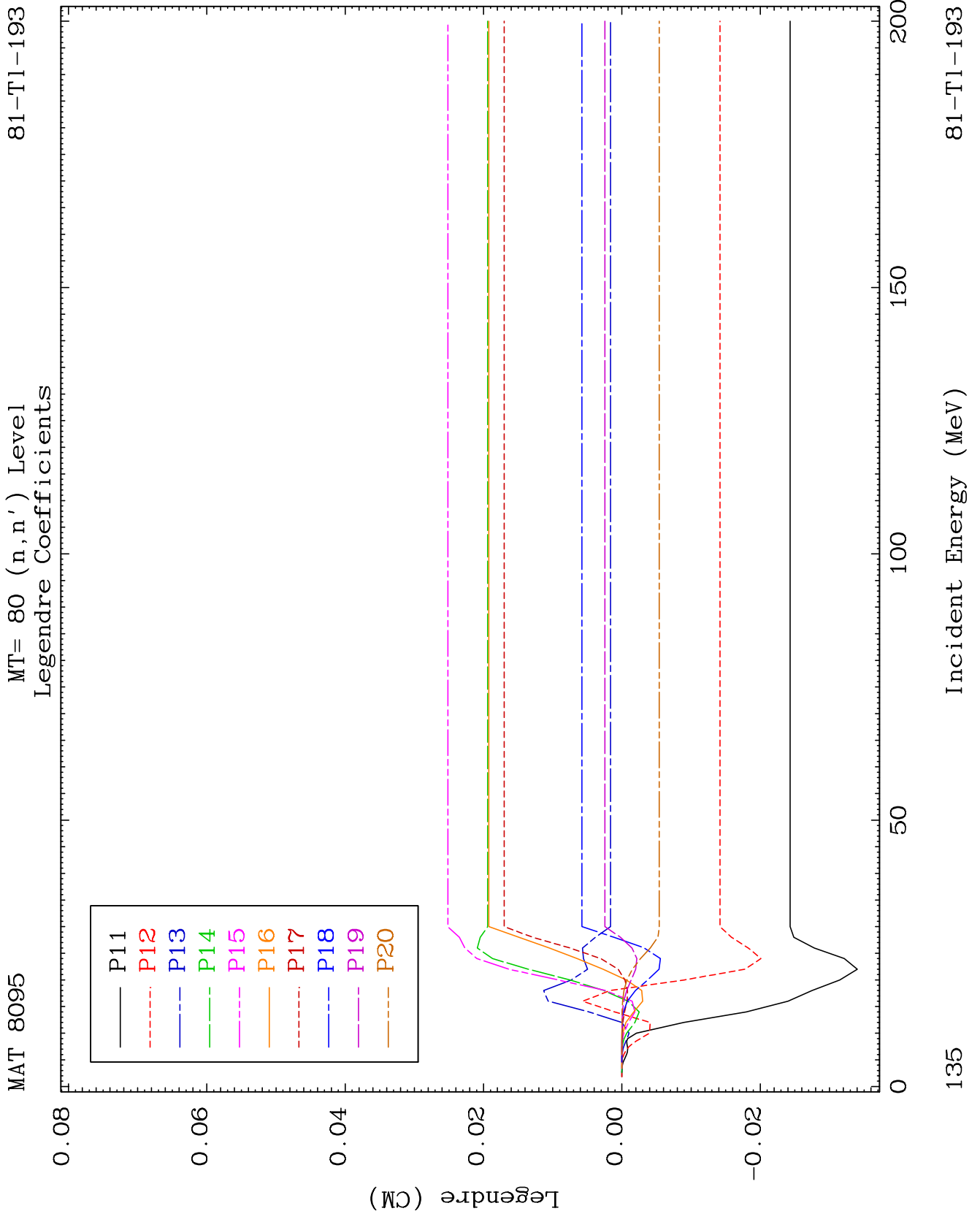
81-Tl-193



81-Tl-193

Incident Energy (MeV)

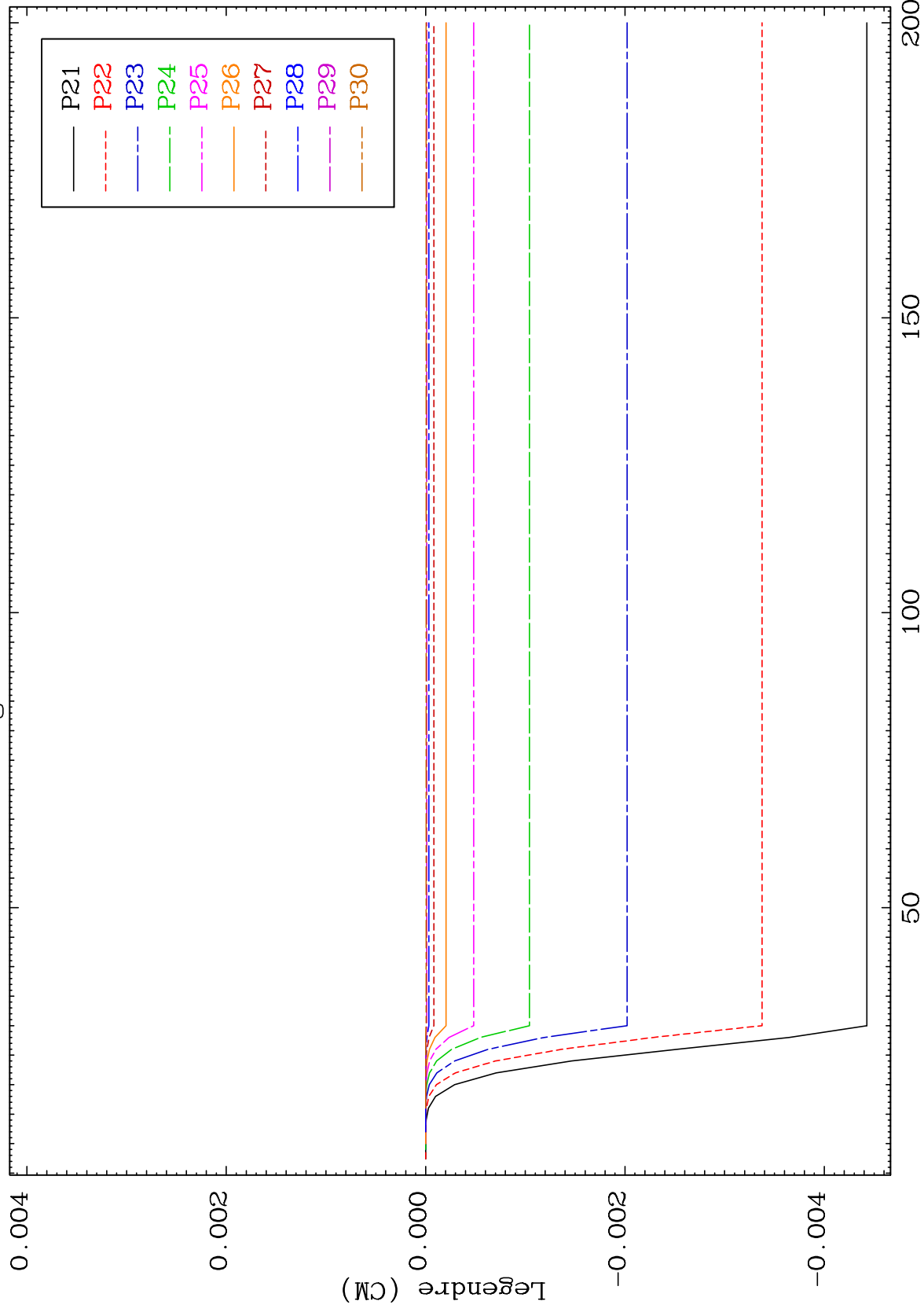
134



MAT 8095

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

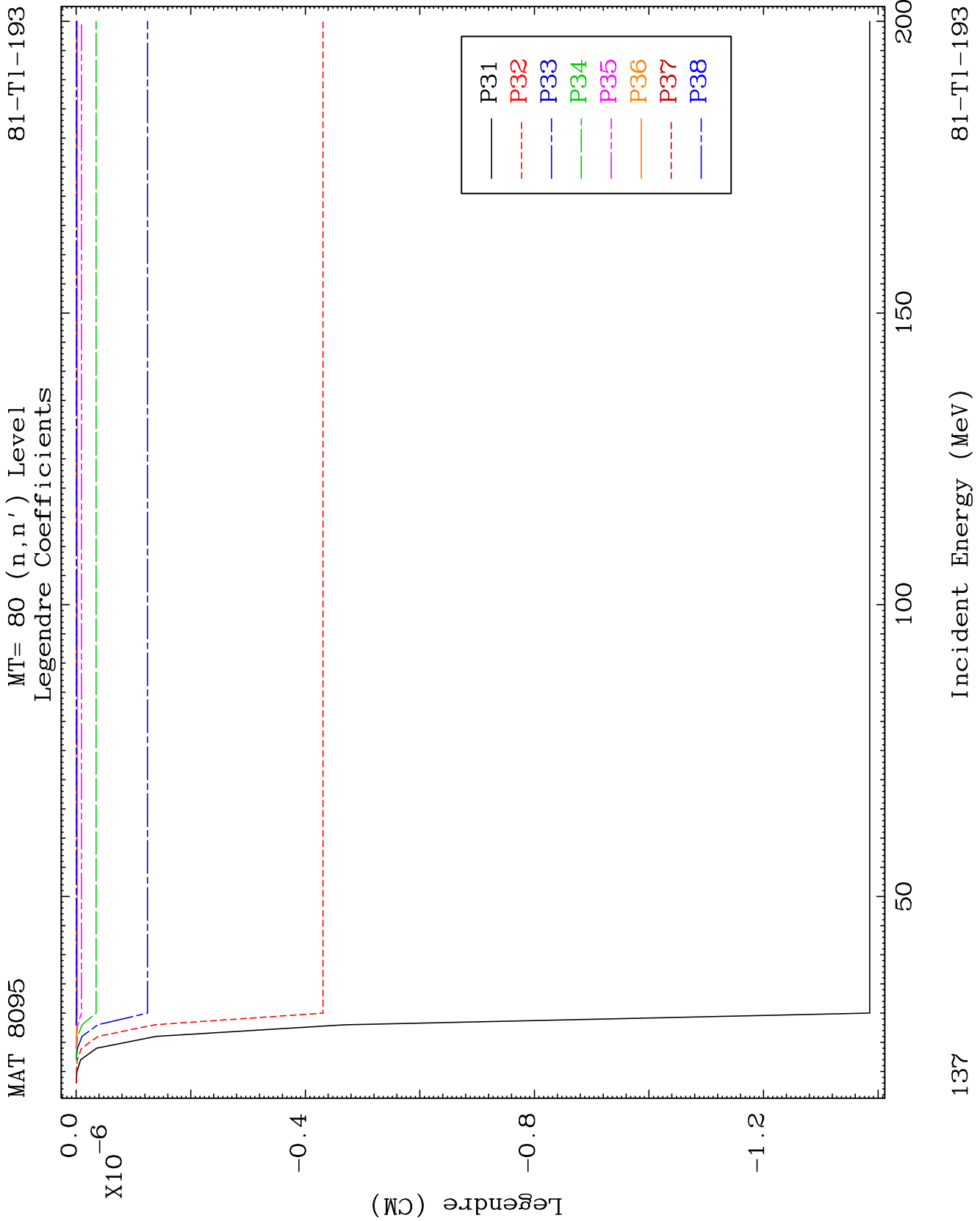
81-T1-193



136

Incident Energy (MeV)

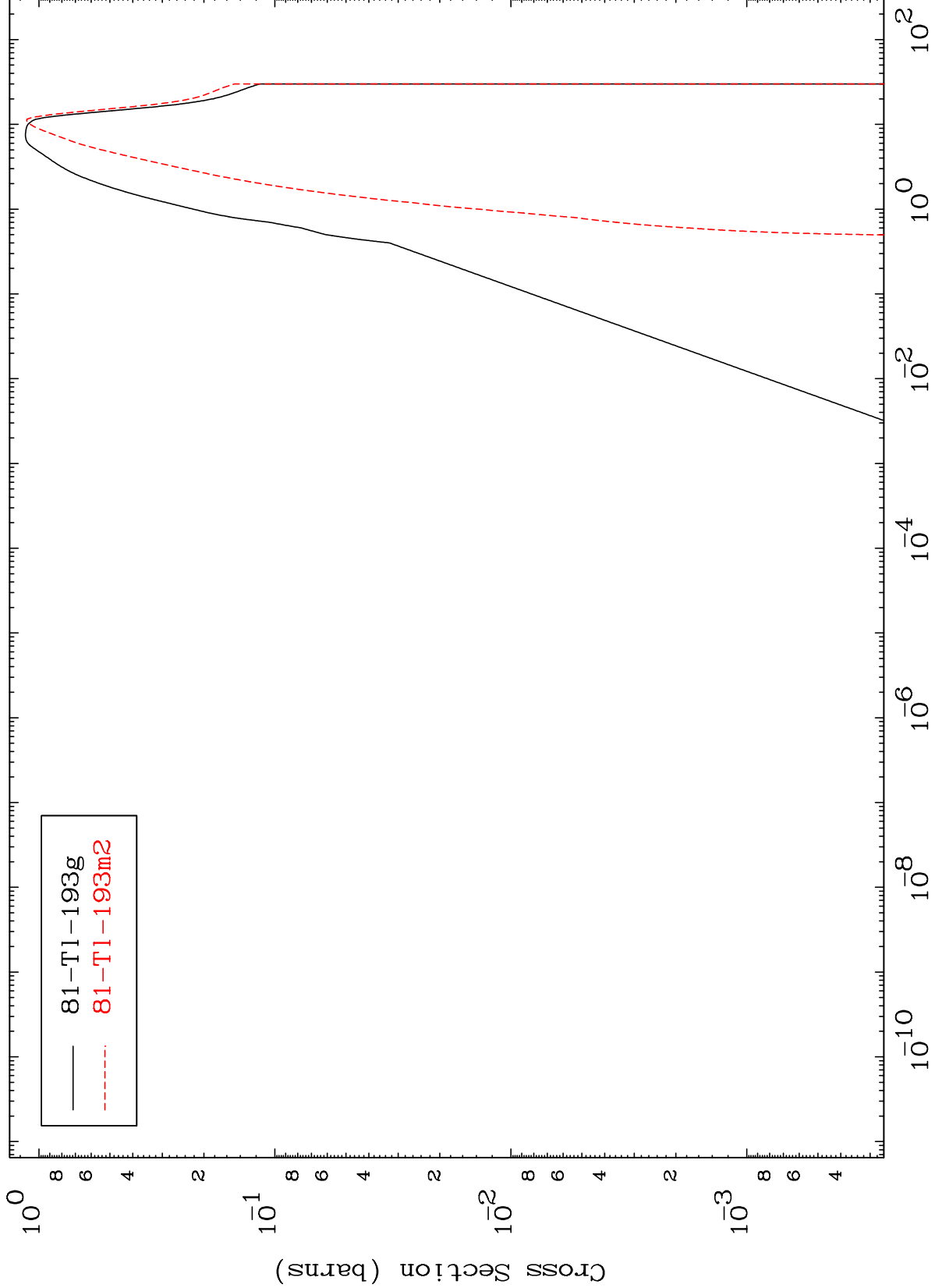
81-T1-193



MAT 8095

Inelastic
Radionuclide Production Cross Section

81-Tl-193

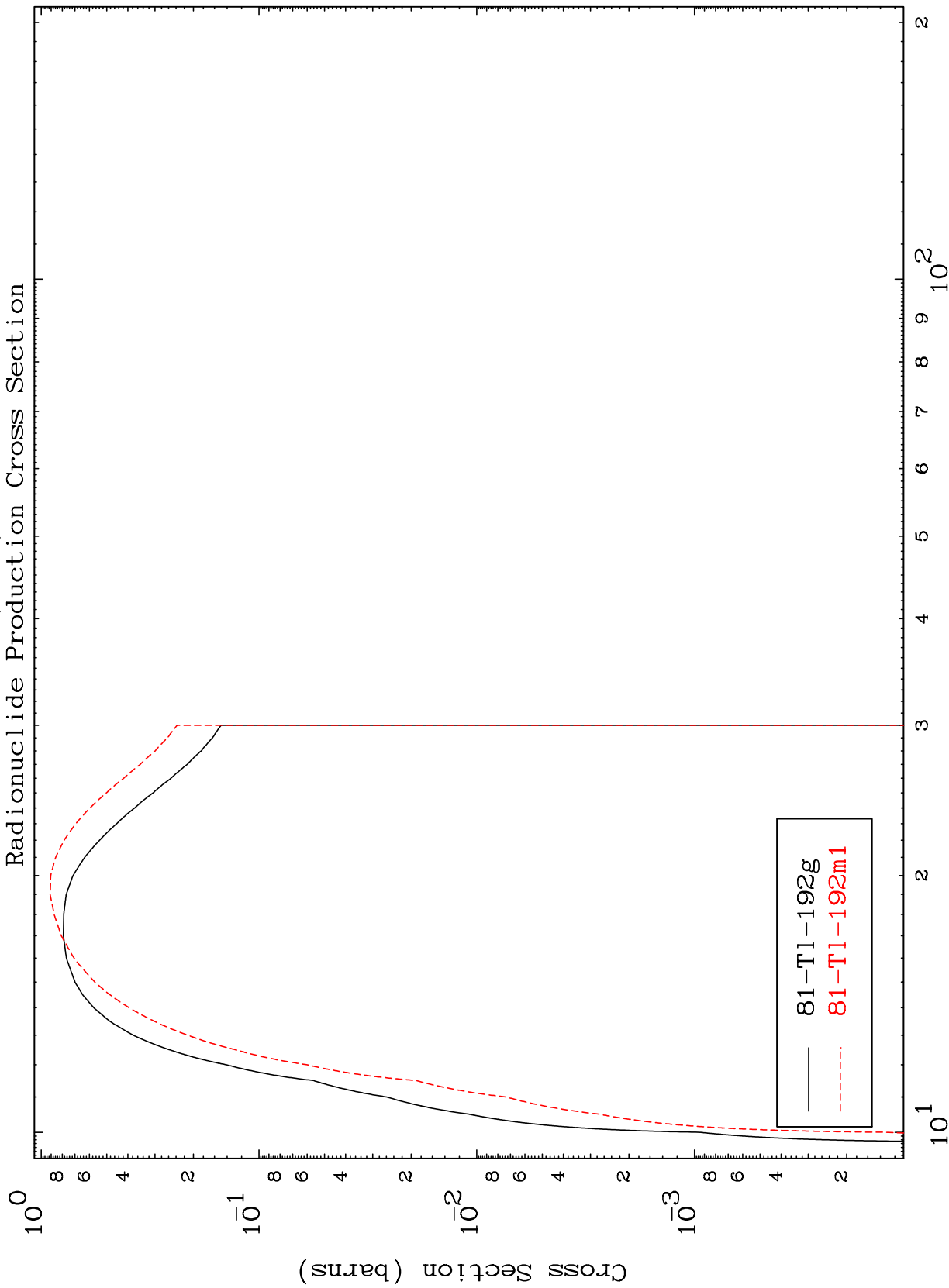


81-Tl-193g
81-Tl-193m2

MAT 8095

81-Tl-193

(n,2n)
Radionuclide Production Cross Section



81-Tl-193

Incident Energy (MeV)

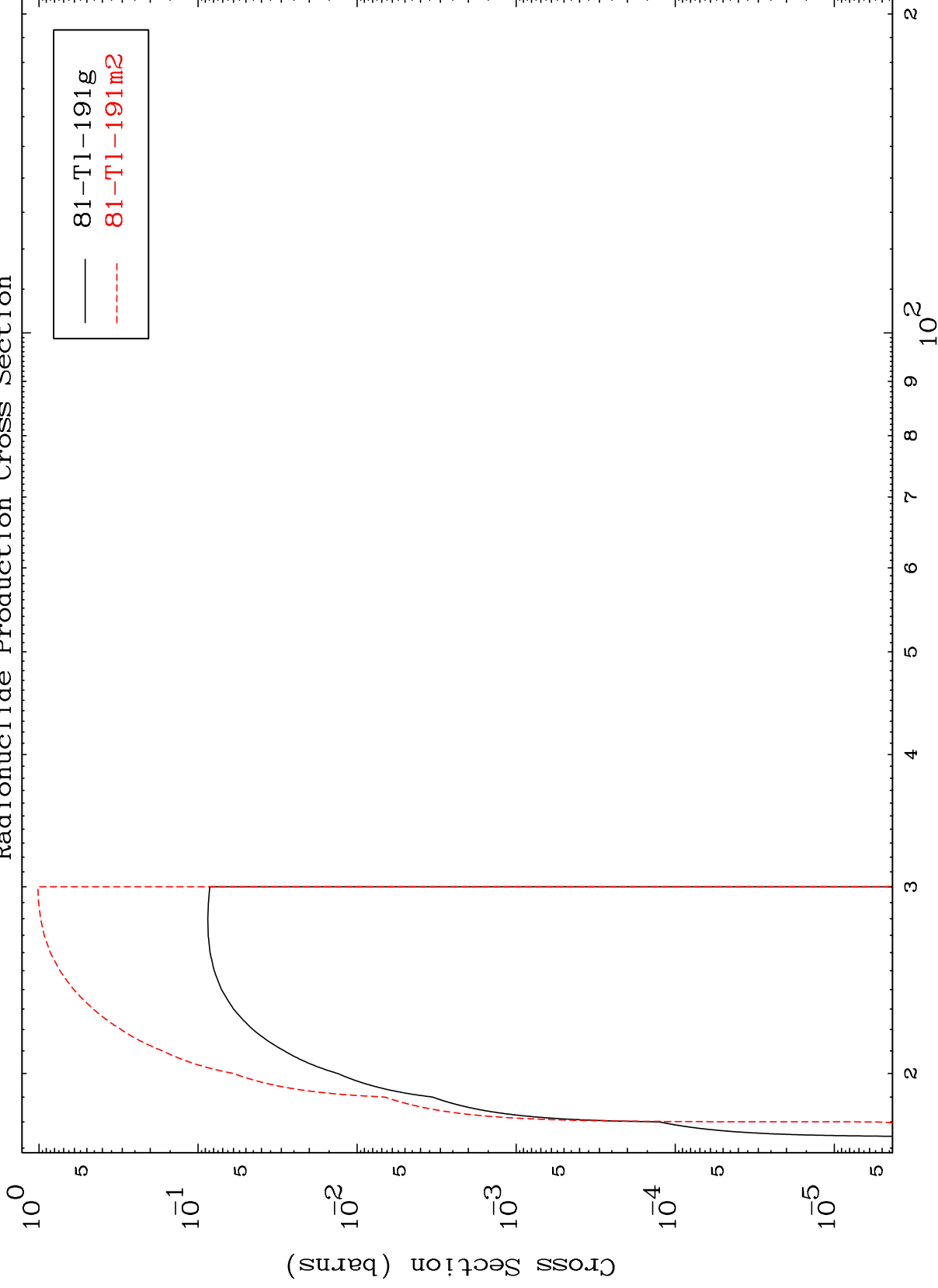
139

MAT 8095

(n,3n)

81-Tl-193

Radionuclide Production Cross Section



81-Tl-191g
81-Tl-191m2

140

Incident Energy (MeV)

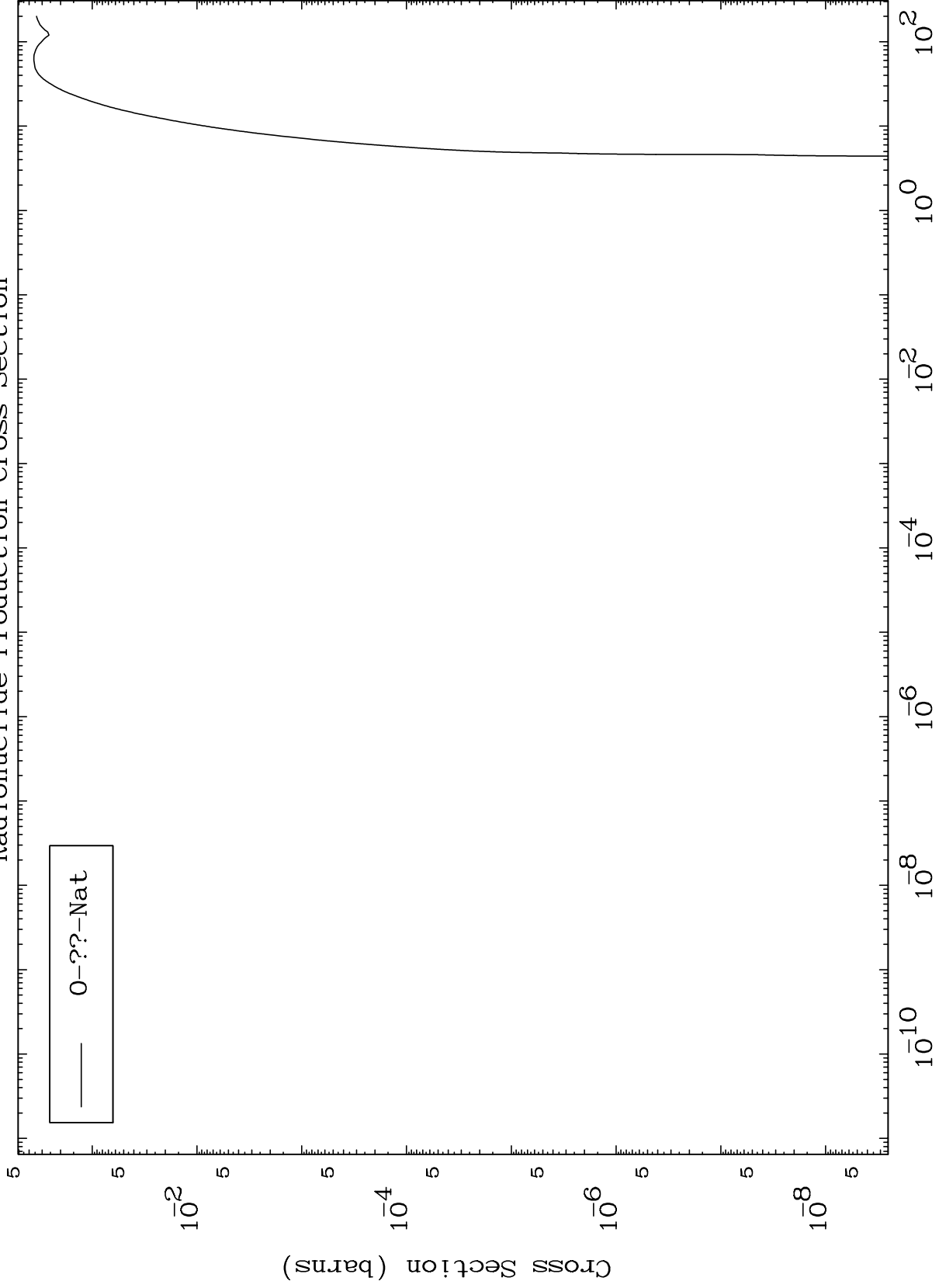
81-Tl-193

MAT 8095

Fission

81-Tl-193

Radionuclide Production Cross Section



141

Incident Energy (MeV)

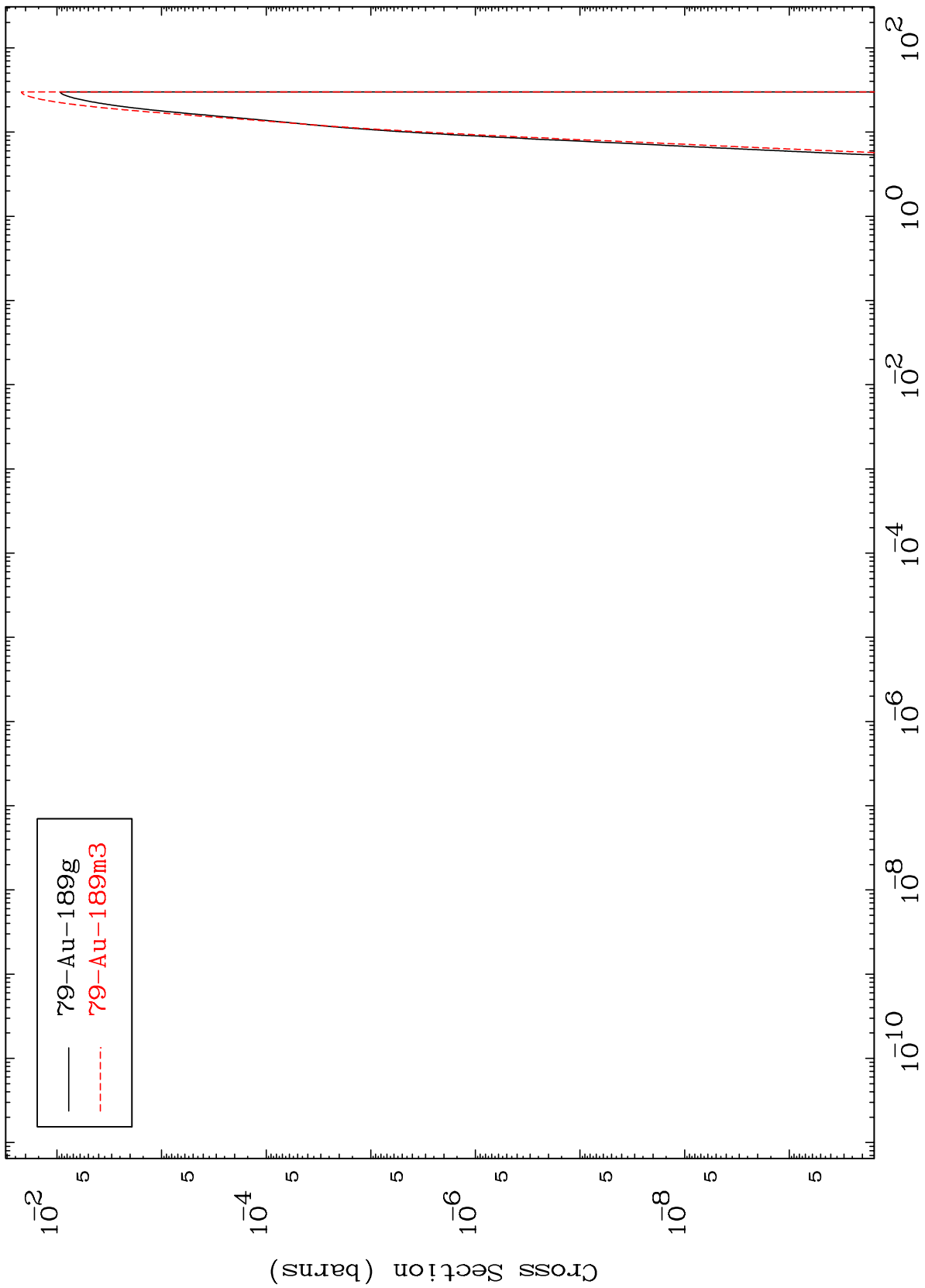
81-Tl-193

MAT 8095

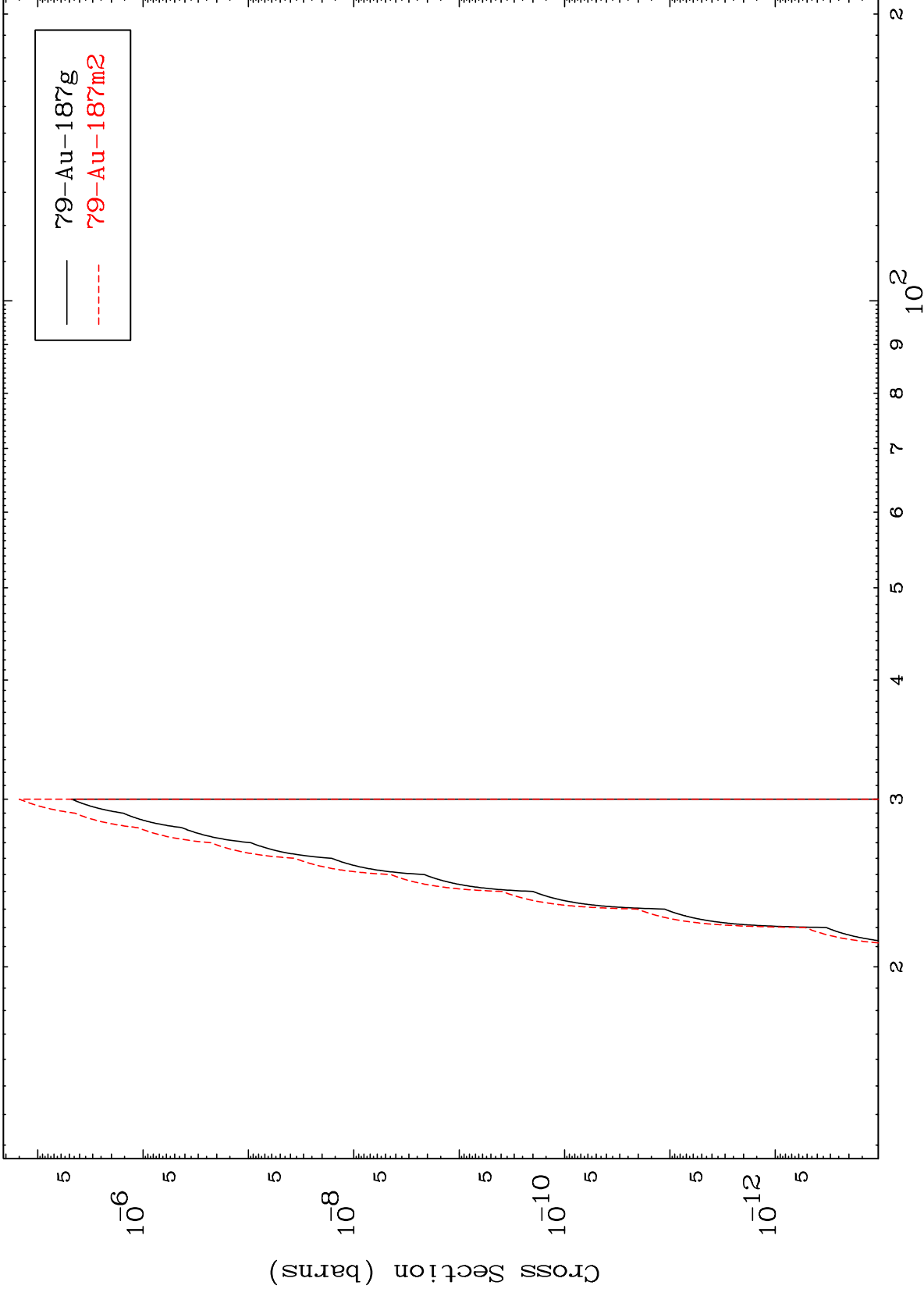
$(n, n') \alpha$

81-Tl-193

Radionuclide Production Cross Section



Radionuclide Production Cross Section

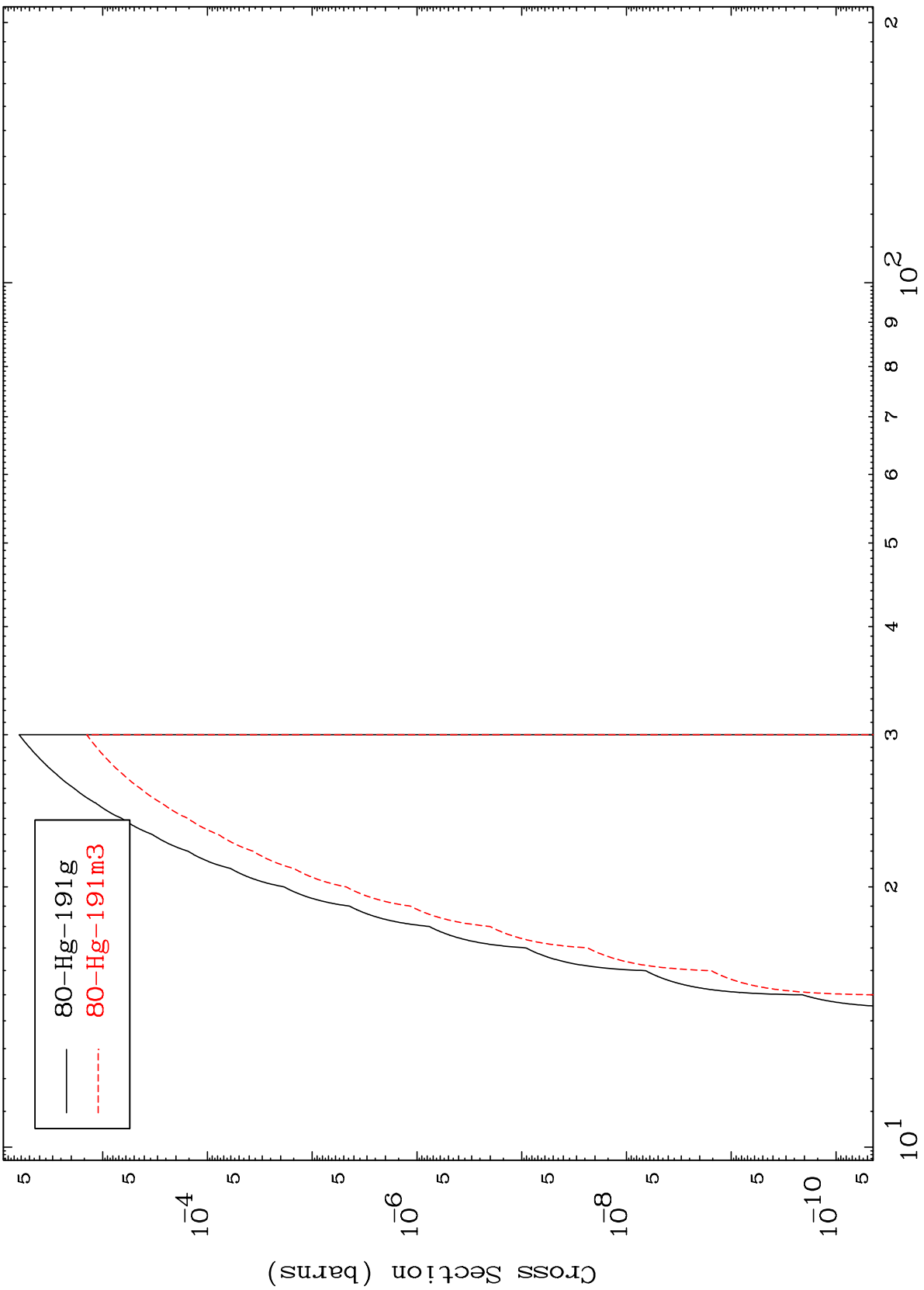


MAT 8095

(n,n') d

81-T1-193

Radionuclide Production Cross Section



80-Hg-191g
80-Hg-191m3

144

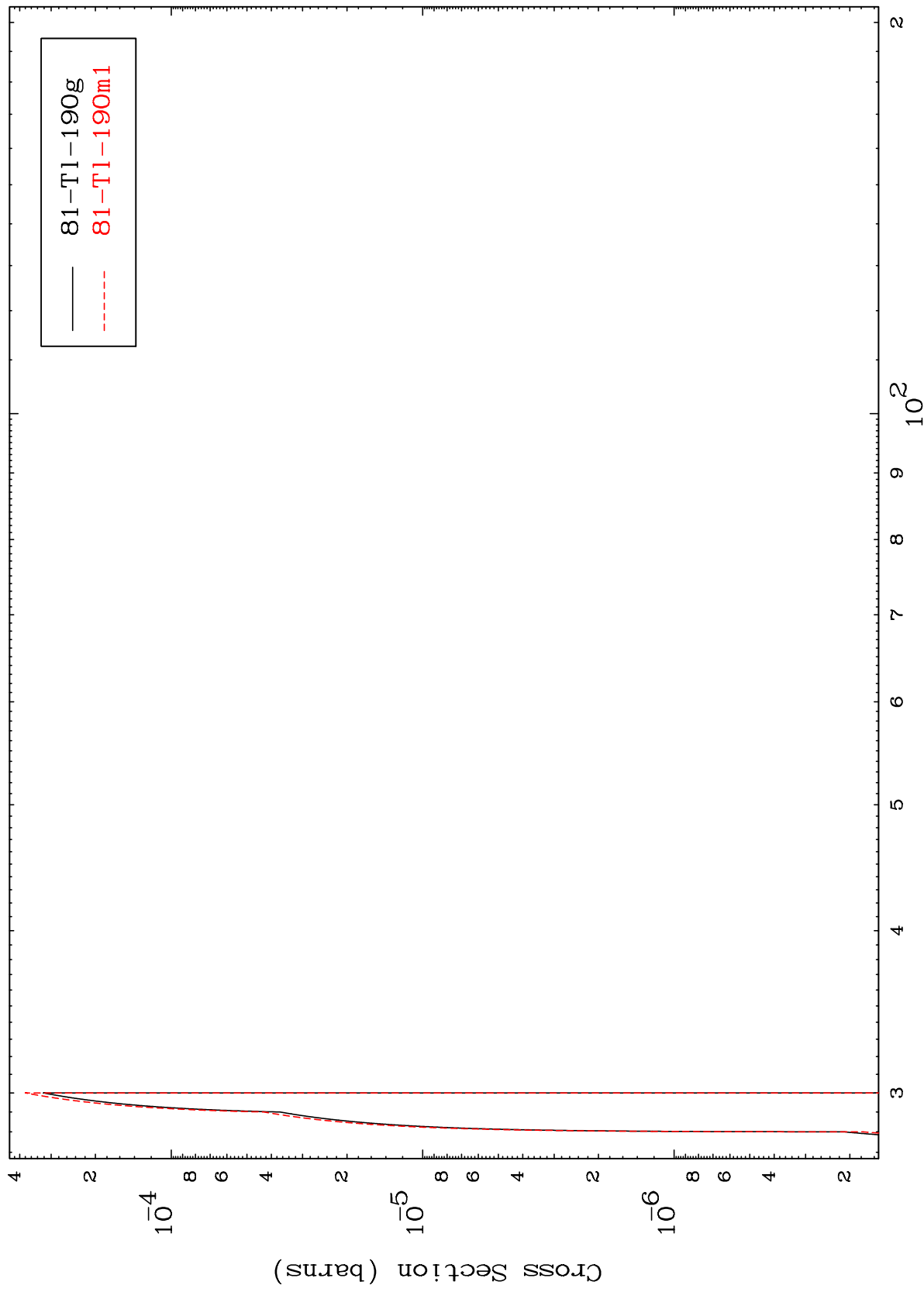
Incident Energy (MeV)

81-T1-193

MAT 8095

81-Tl-193

(n,4n)
Radionuclide Production Cross Section



145

81-Tl-193

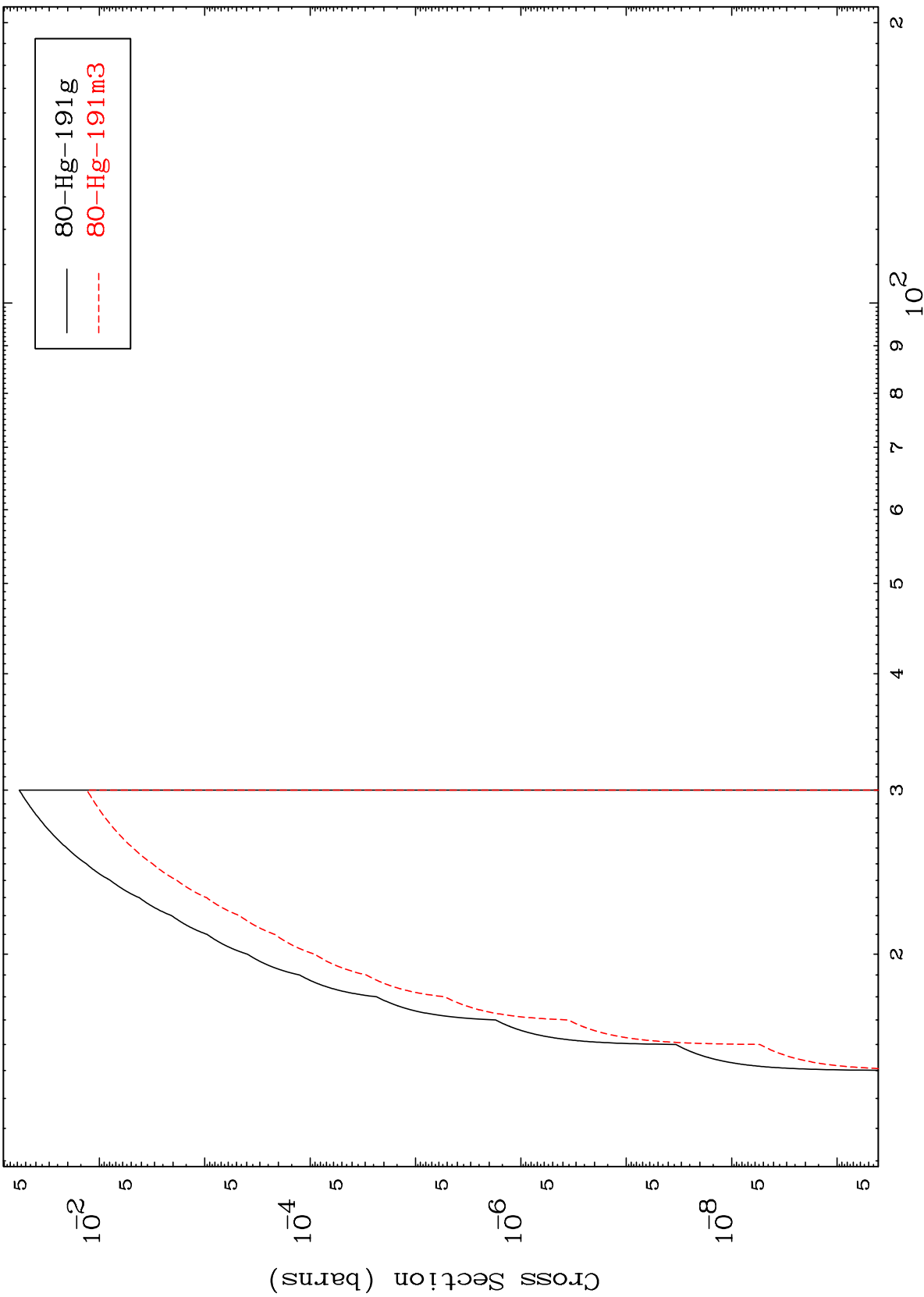
Incident Energy (MeV)

MAT 8095

(n,2n) p

81-Tl-193

Radionuclide Production Cross Section



80-Hg-191g
80-Hg-191m3

146

Incident Energy (MeV)

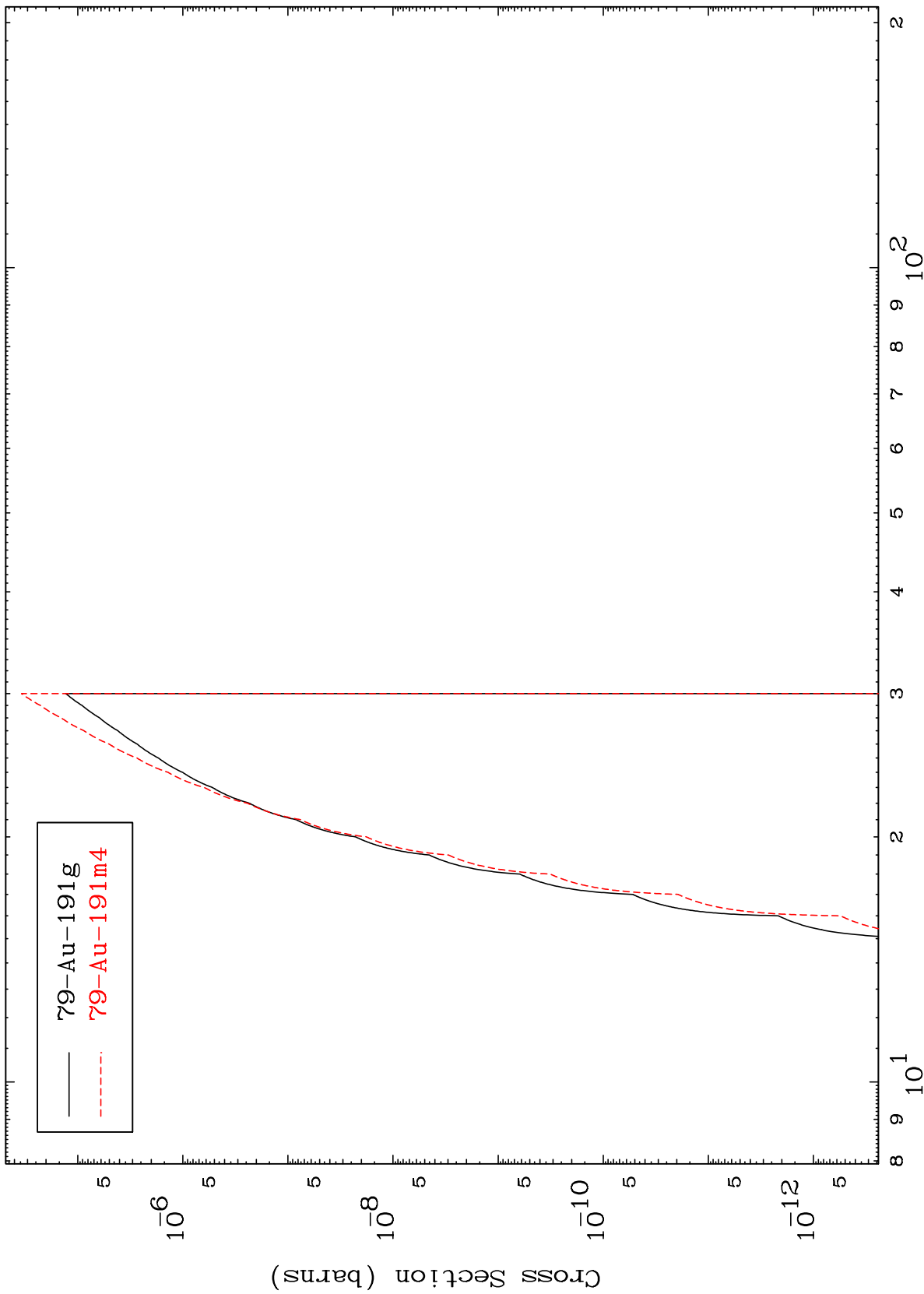
81-Tl-193

MAT 8095

(n,2n) p

81-Tl-193

Radionuclide Production Cross Section



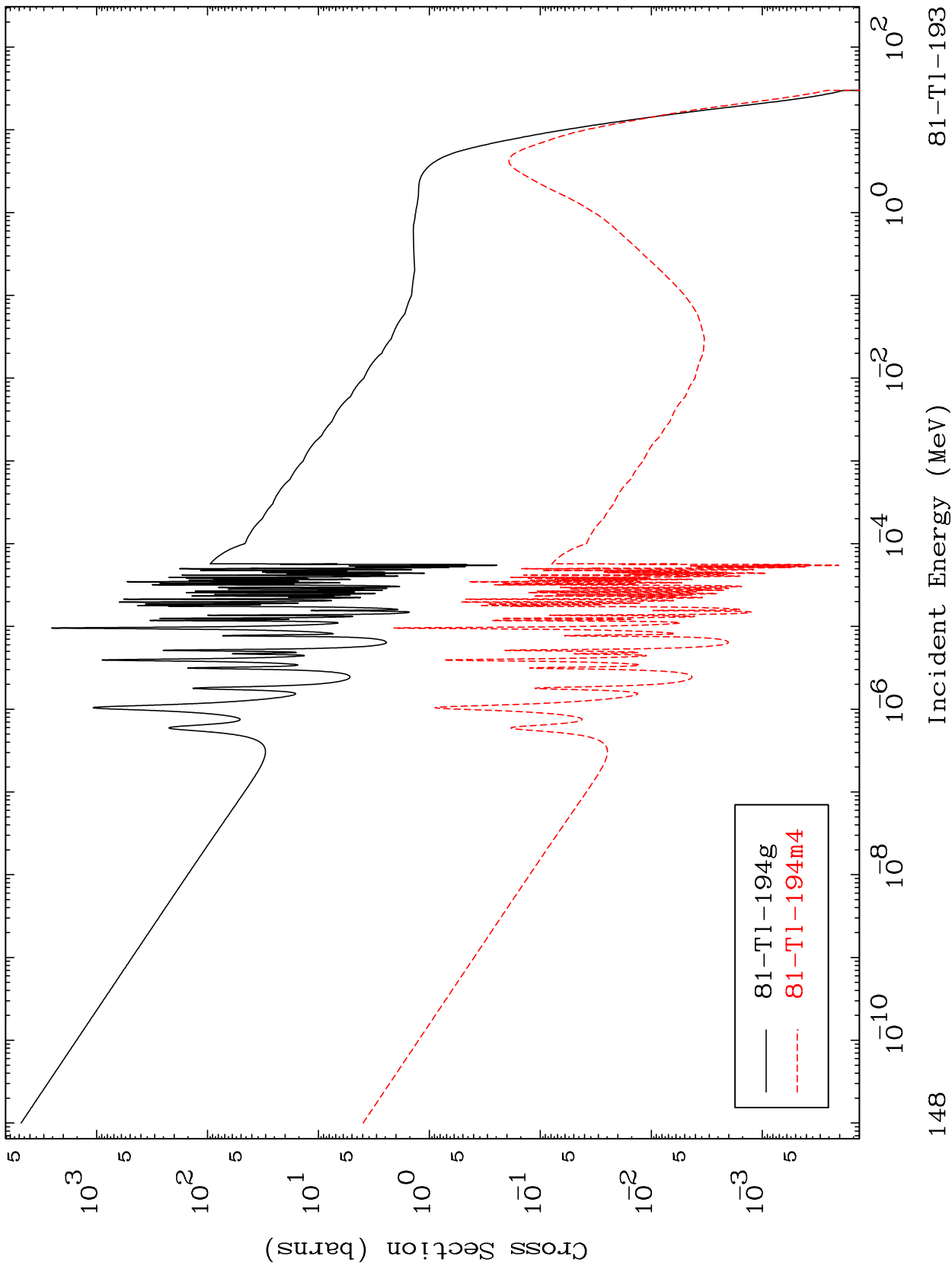
147

Incident Energy (MeV)

81-Tl-193

Radionuclide Production Cross Section

(n, γ)



Incident Energy (MeV)

MAT 8095

81-T1-193

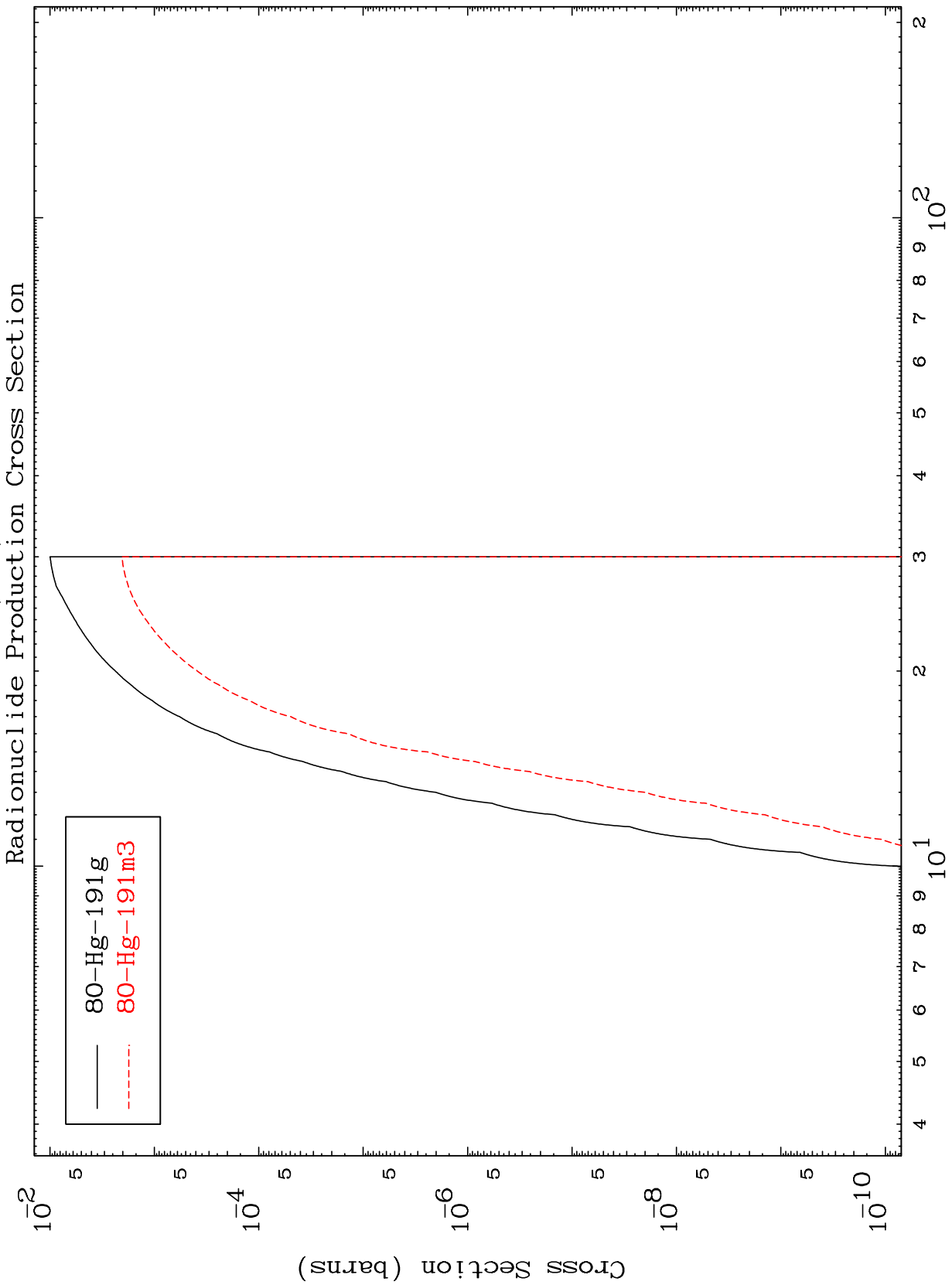
Radionuclide Production Cross Section (n,p)



— 80-Hg-193g
- - - 80-Hg-193m3

MAT 8095

81-T1-193



150

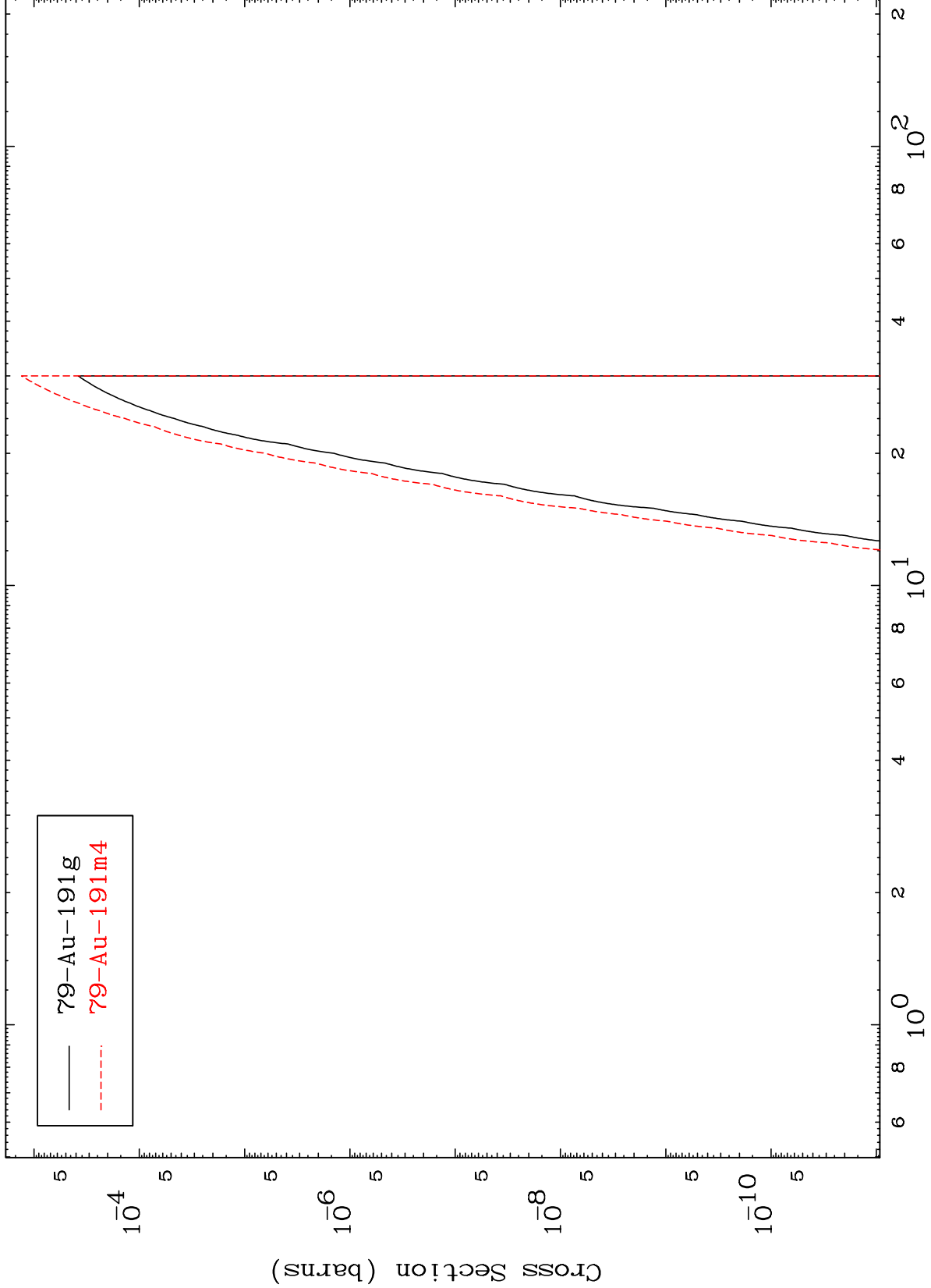
81-T1-193

MAT 8095

(n,He-3)

81-Tl-193

Radionuclide Production Cross Section



151

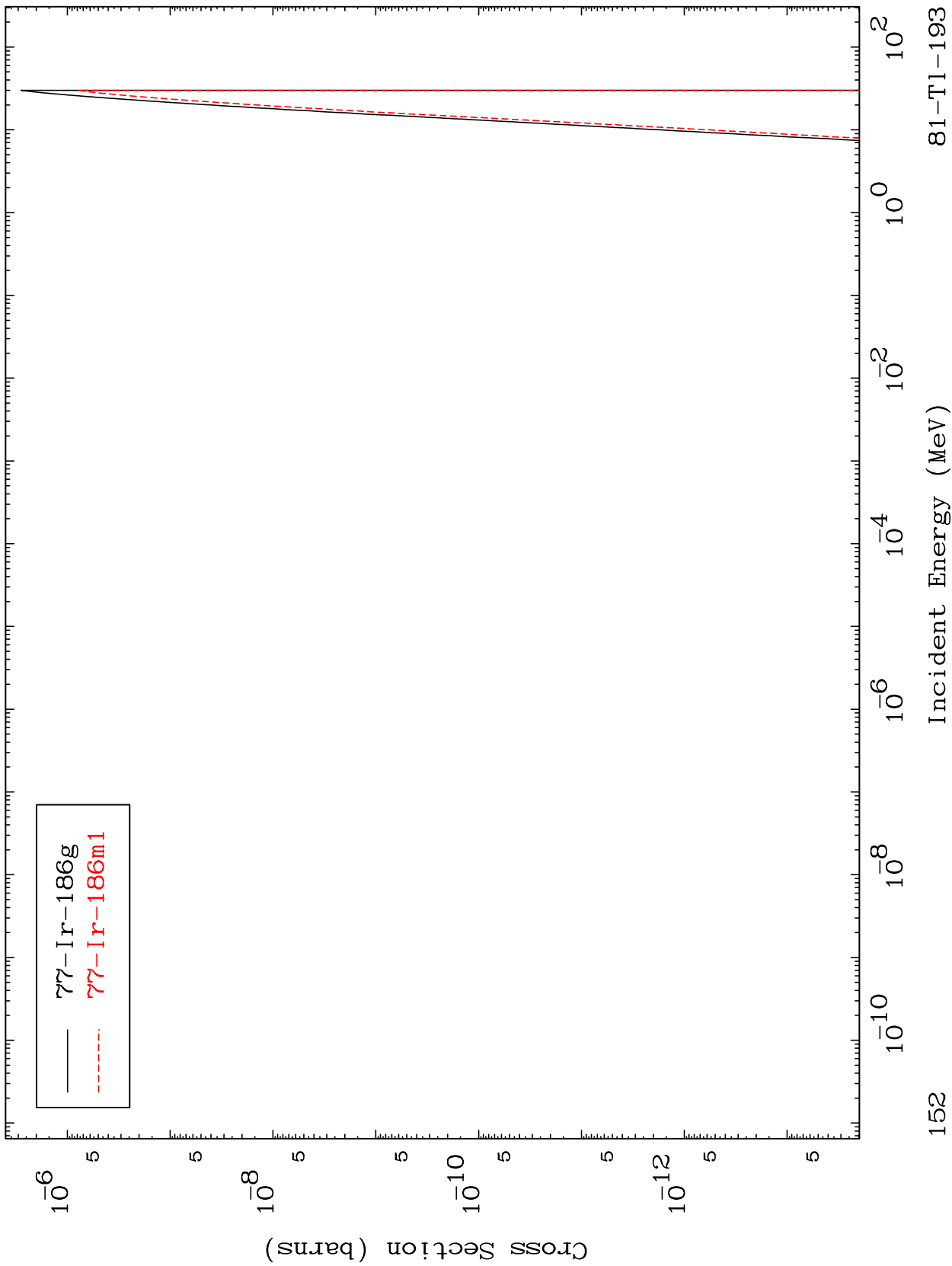
81-Tl-193

MAT 8095

(n,2α)

81-Tl-193

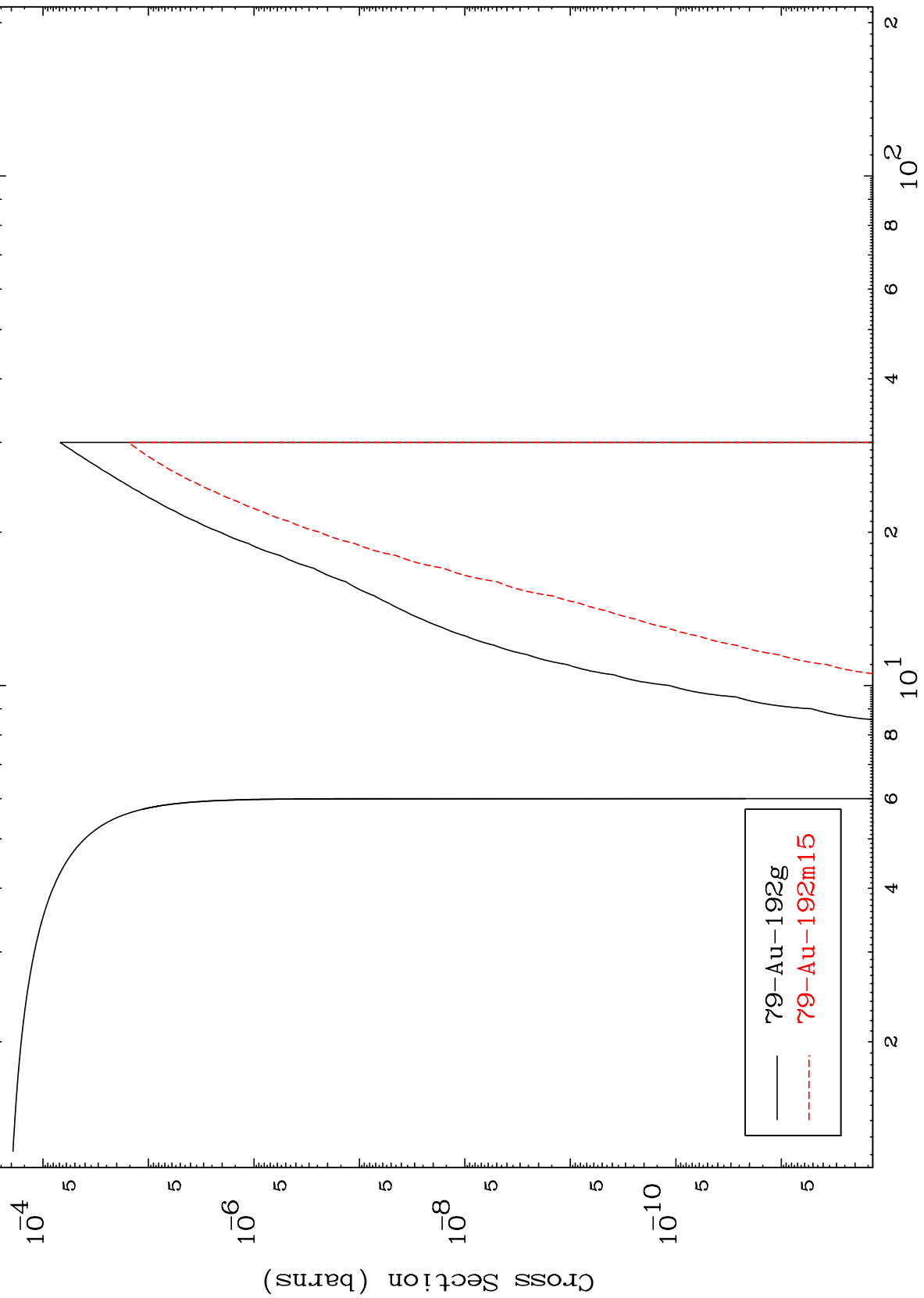
Radionuclide Production Cross Section



MAT 8095

81-Tl-193

(n,2p)
Radionuclide Production Cross Section

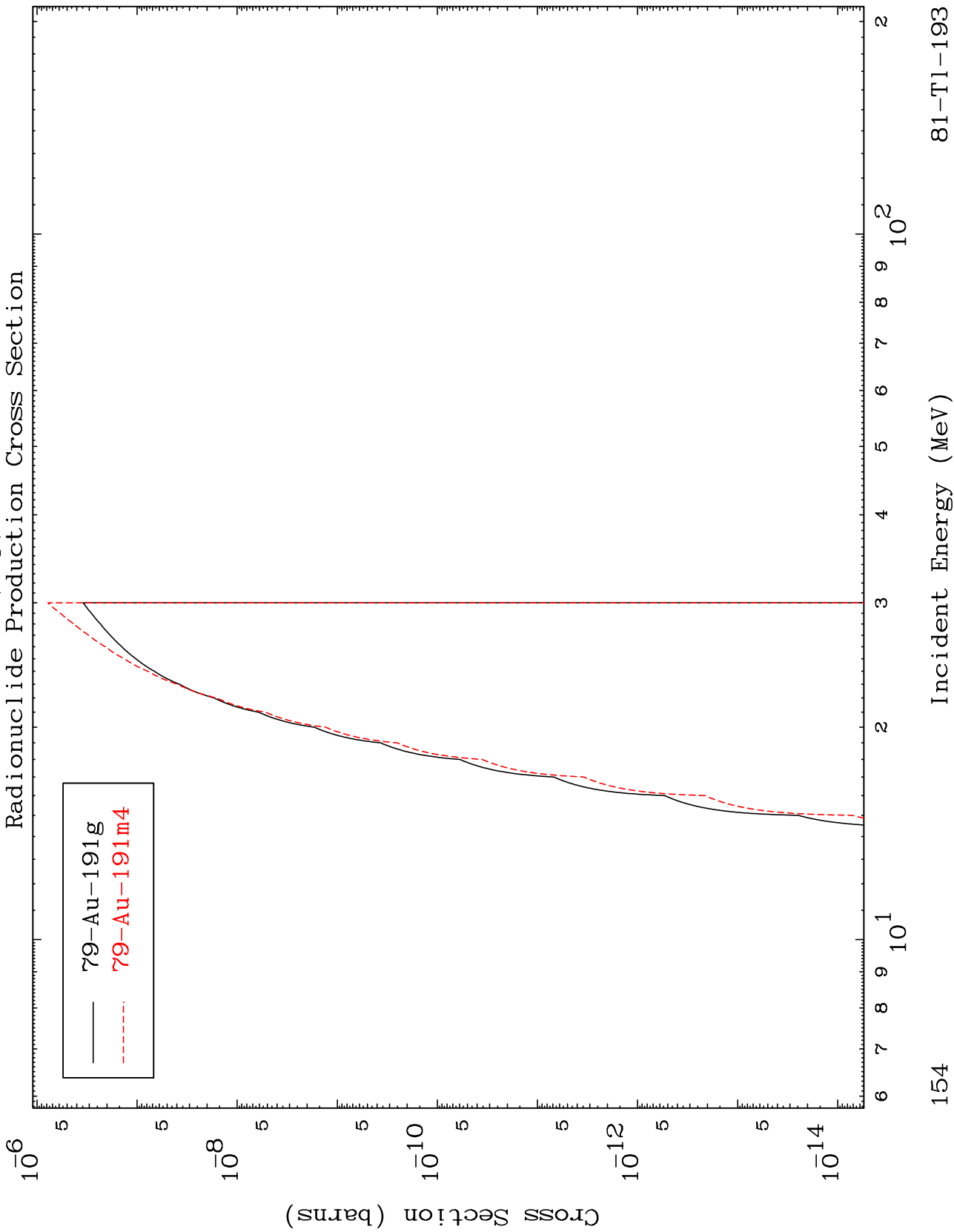


— 79-Au-192g
- - - 79-Au-192m15

MAT 8095

(n,p) d

81-Tl-193



79-Au-191g
79-Au-191m4

154

Incident Energy (MeV)

81-Tl-193