

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

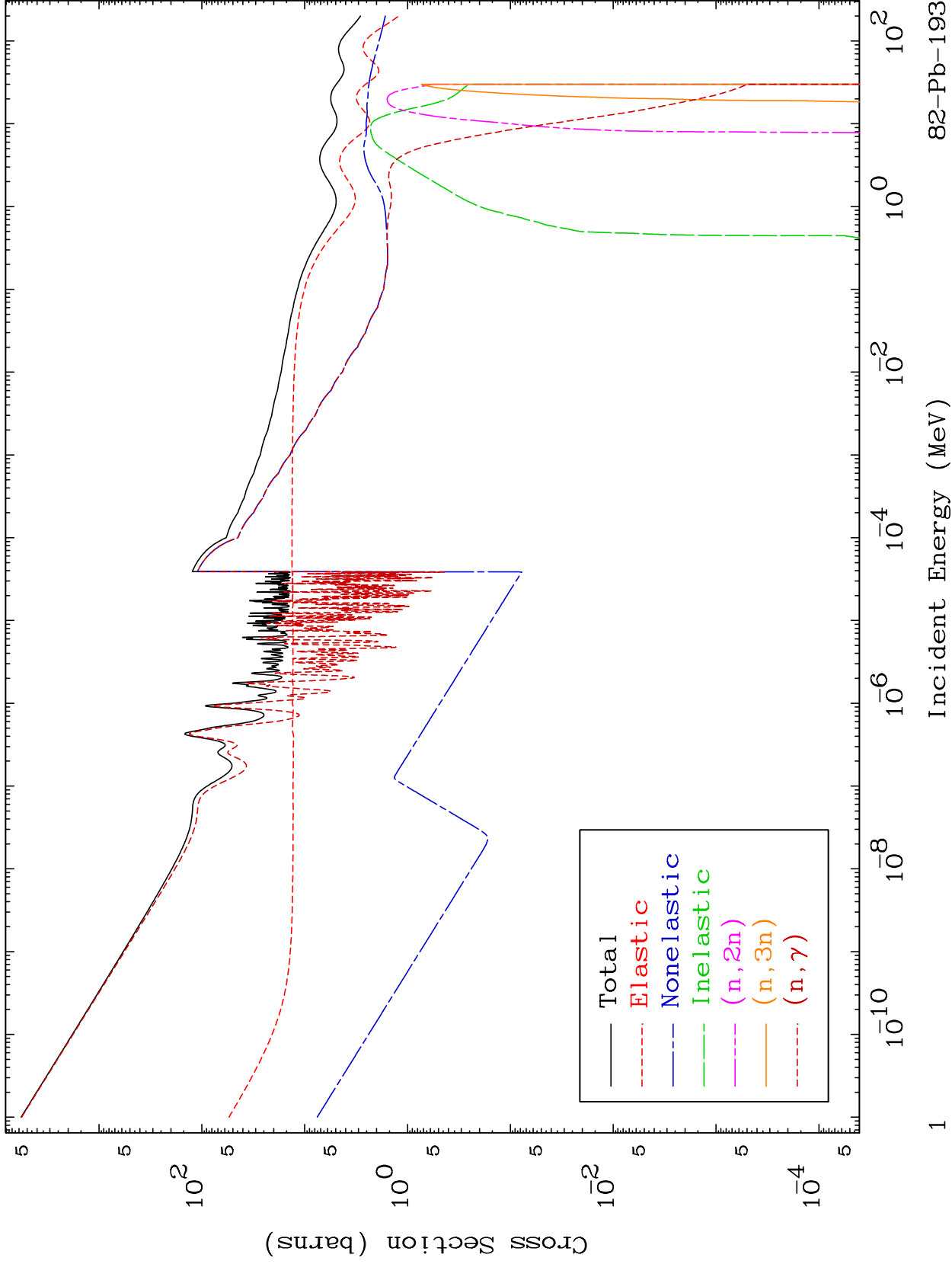
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 8192

Neutron Major  
293 Kelvin Cross Sections

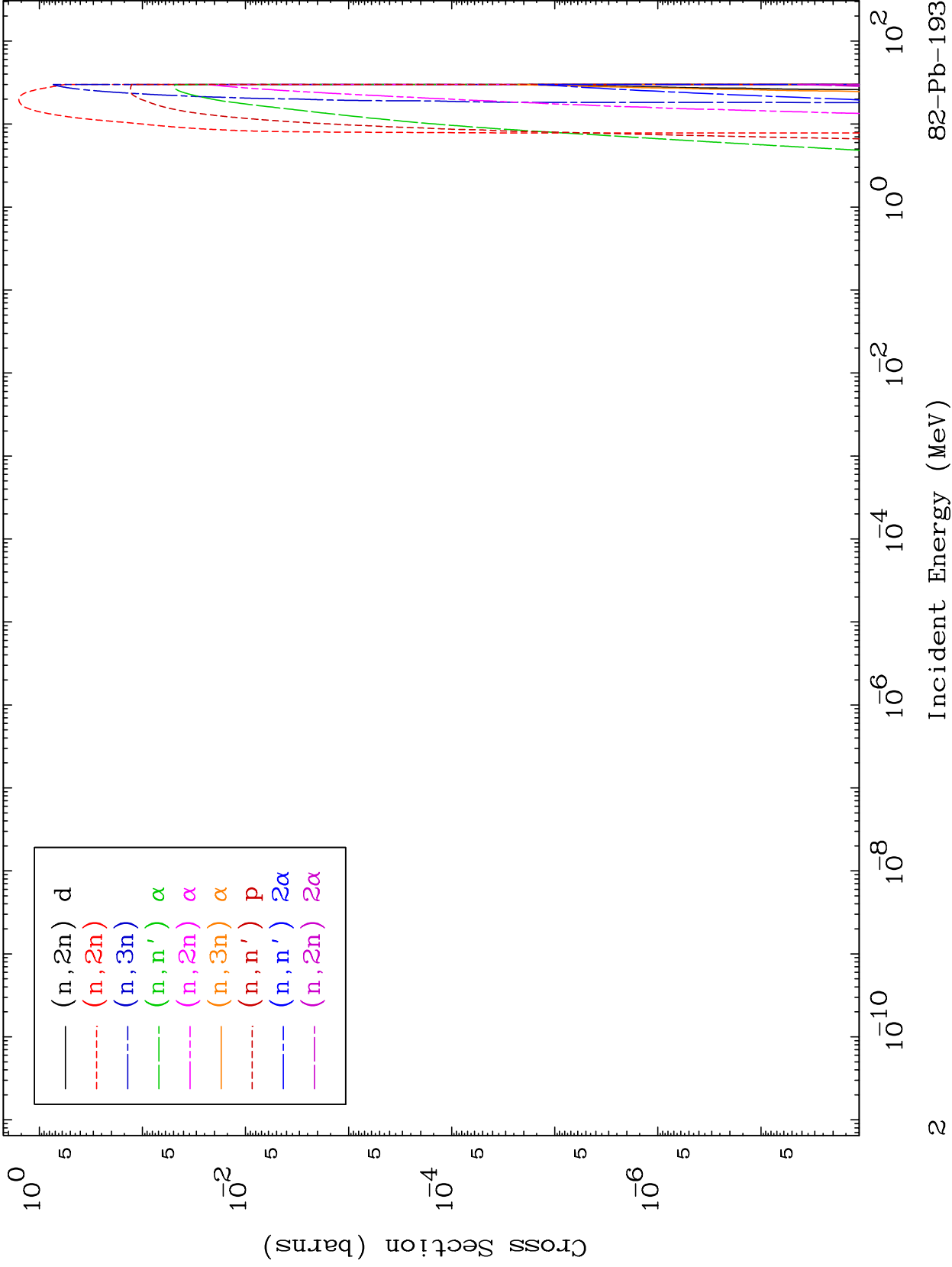
82-Pb-193



MAT 8192

Neutron Absorption  
293 Kelvin Cross Sections

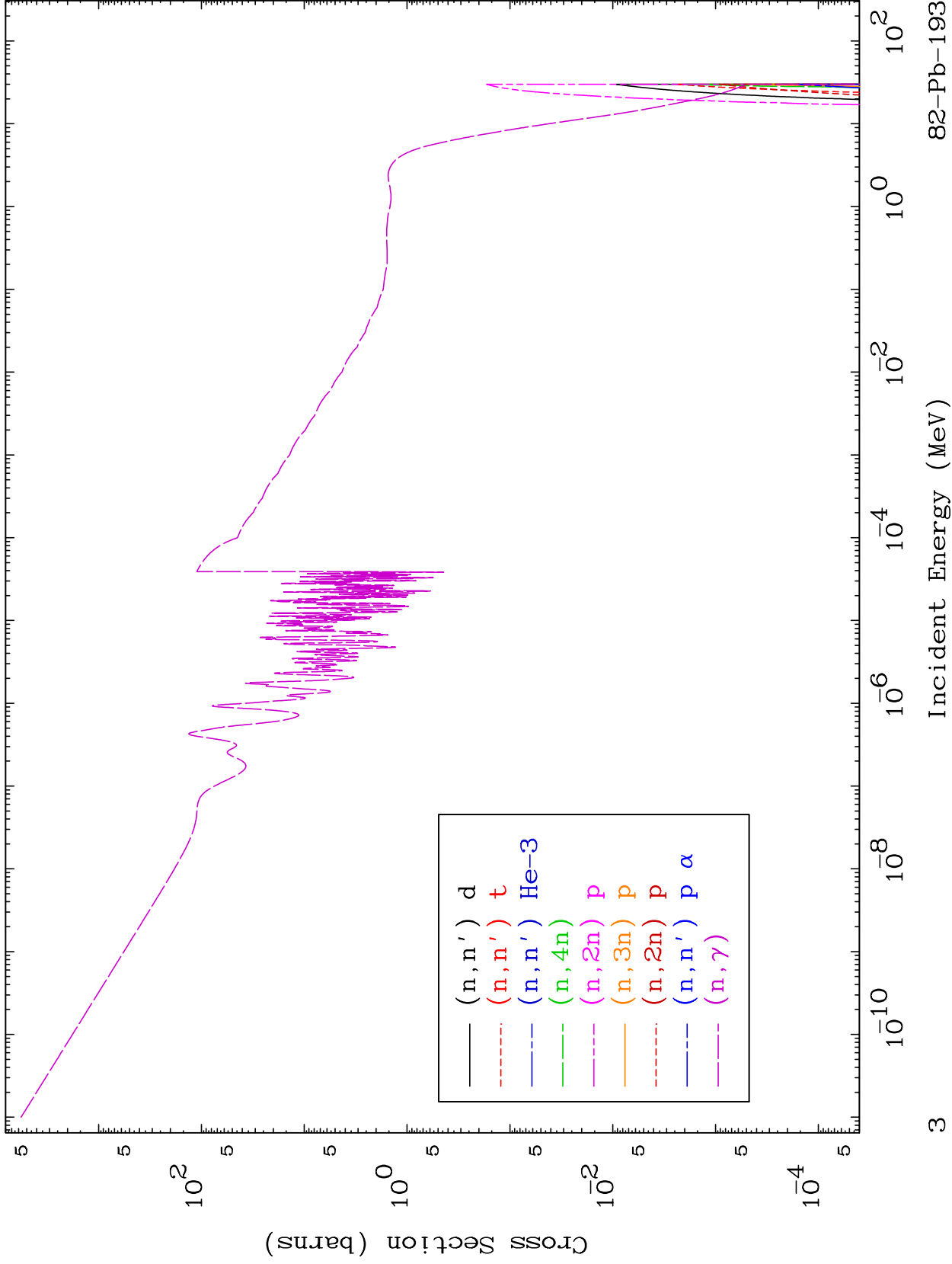
82-Pb-193



MAT 8192

Neutron Absorption  
293 Kelvin Cross Sections

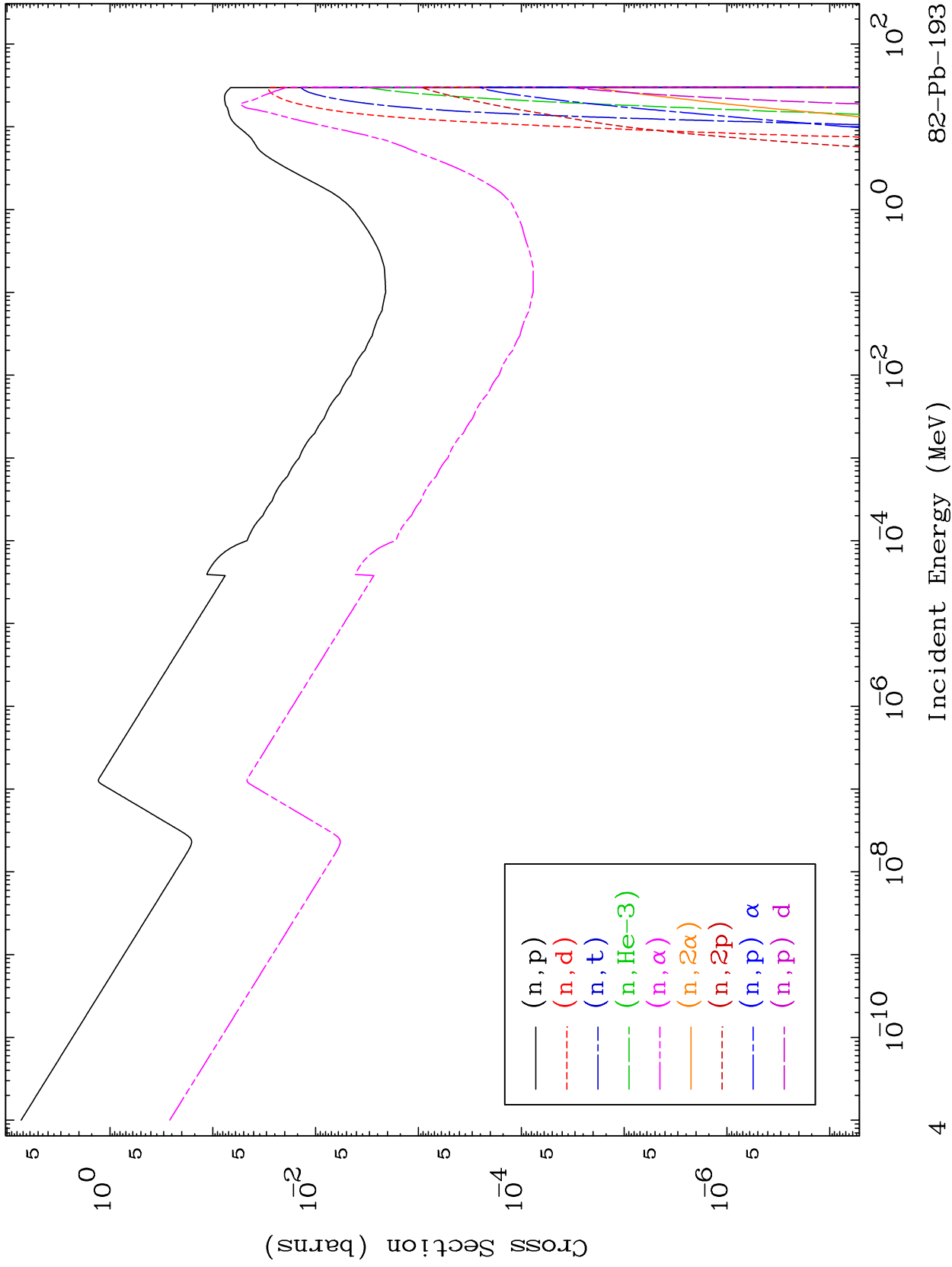
82-Pb-193

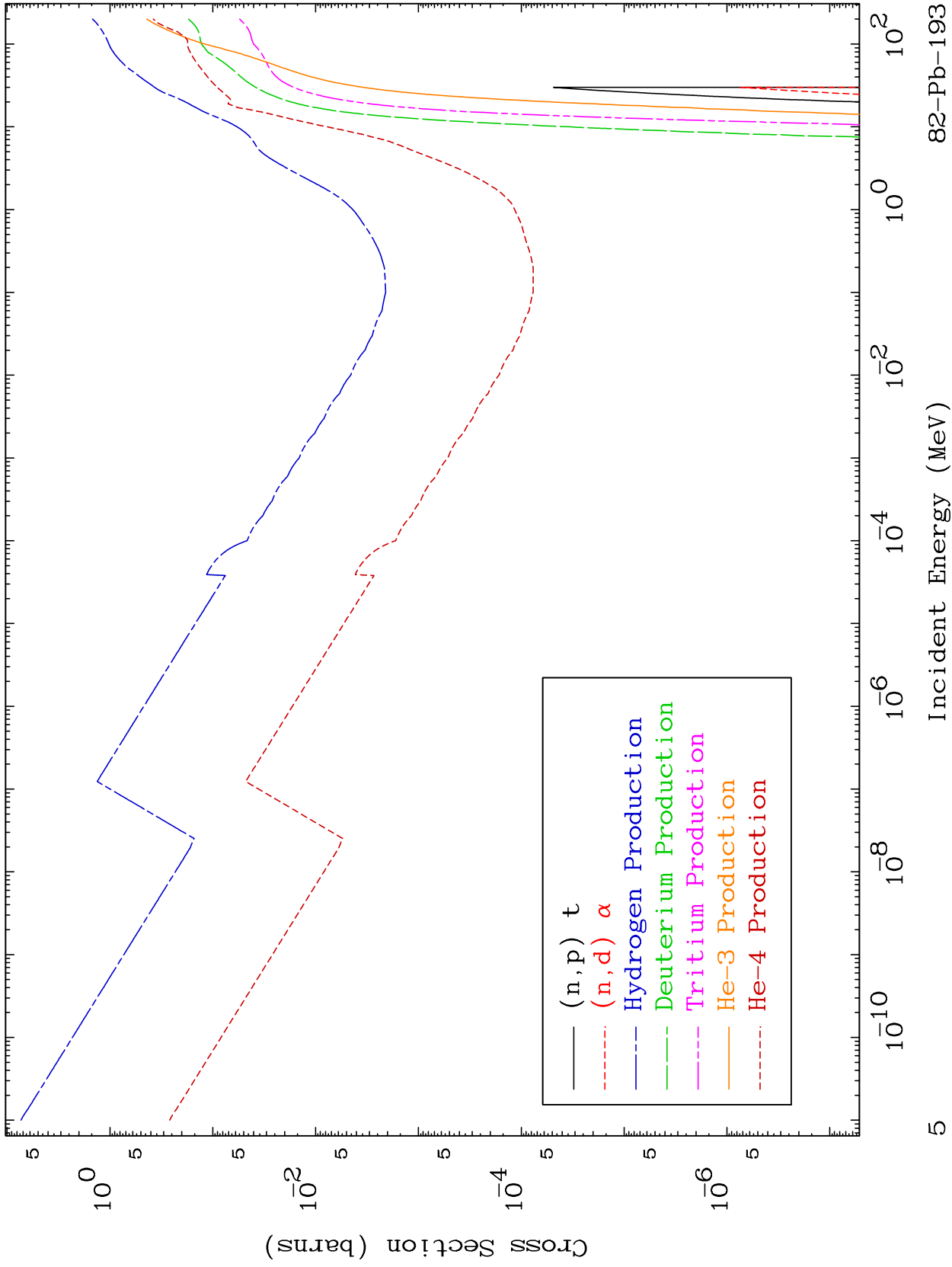


MAT 8192

Neutron Absorption  
293 Kelvin Cross Sections

82-Pb-193

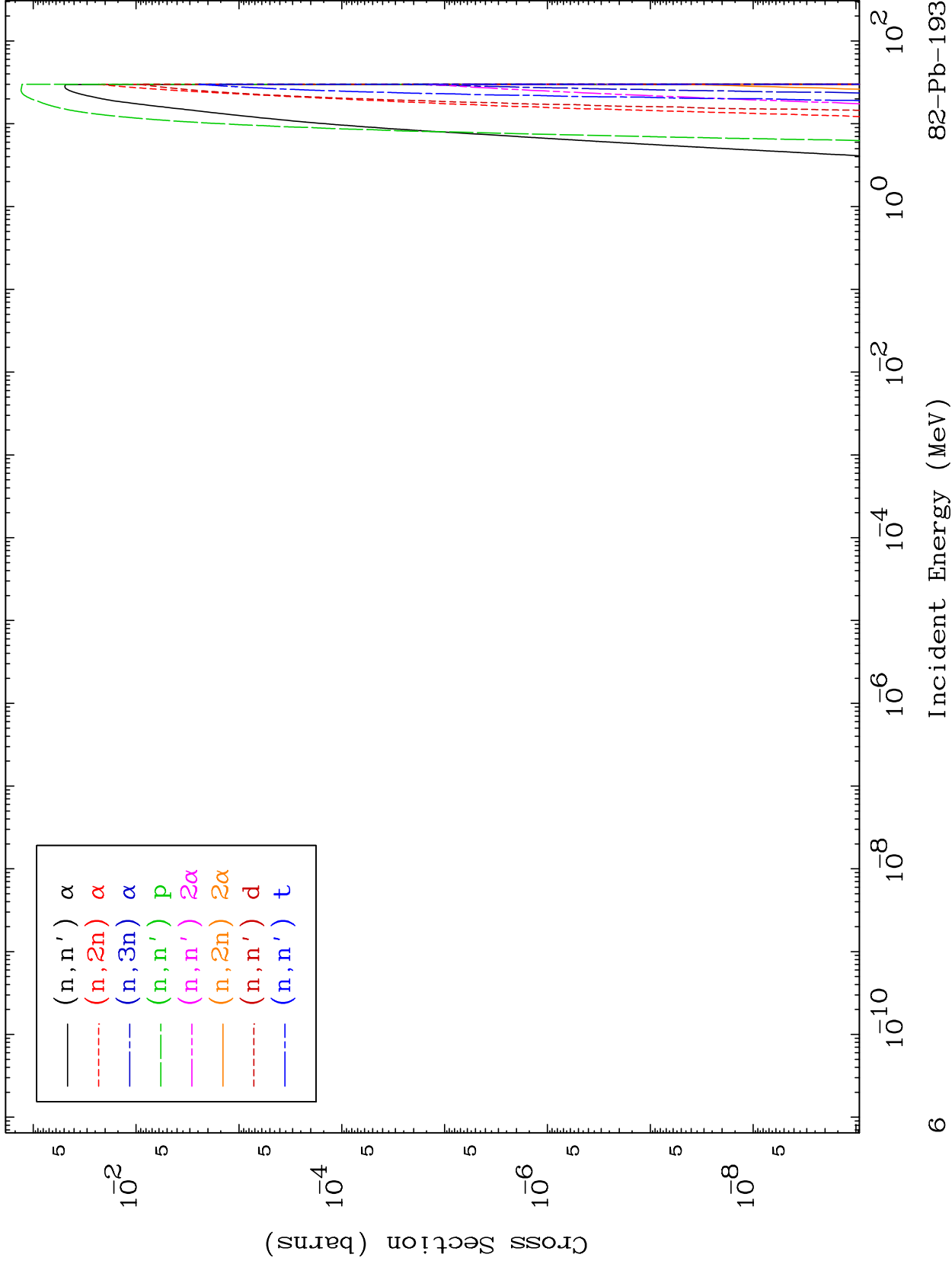




MAT 8192

Charged Particle  
293 Kelvin Cross Sections

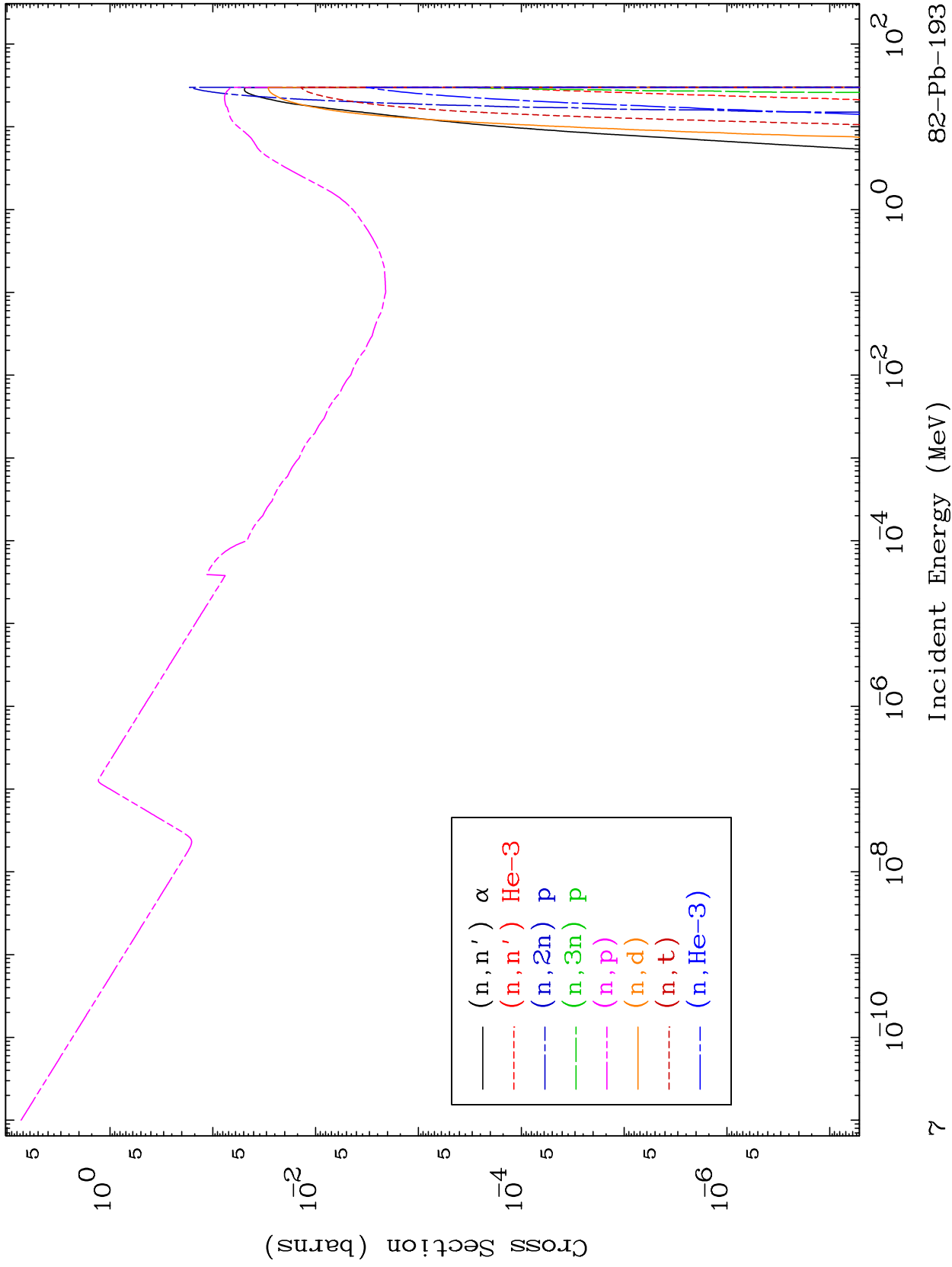
82-Pb-193



MAT 8192

Charged Particle  
293 Kelvin Cross Sections

82-Pb-193

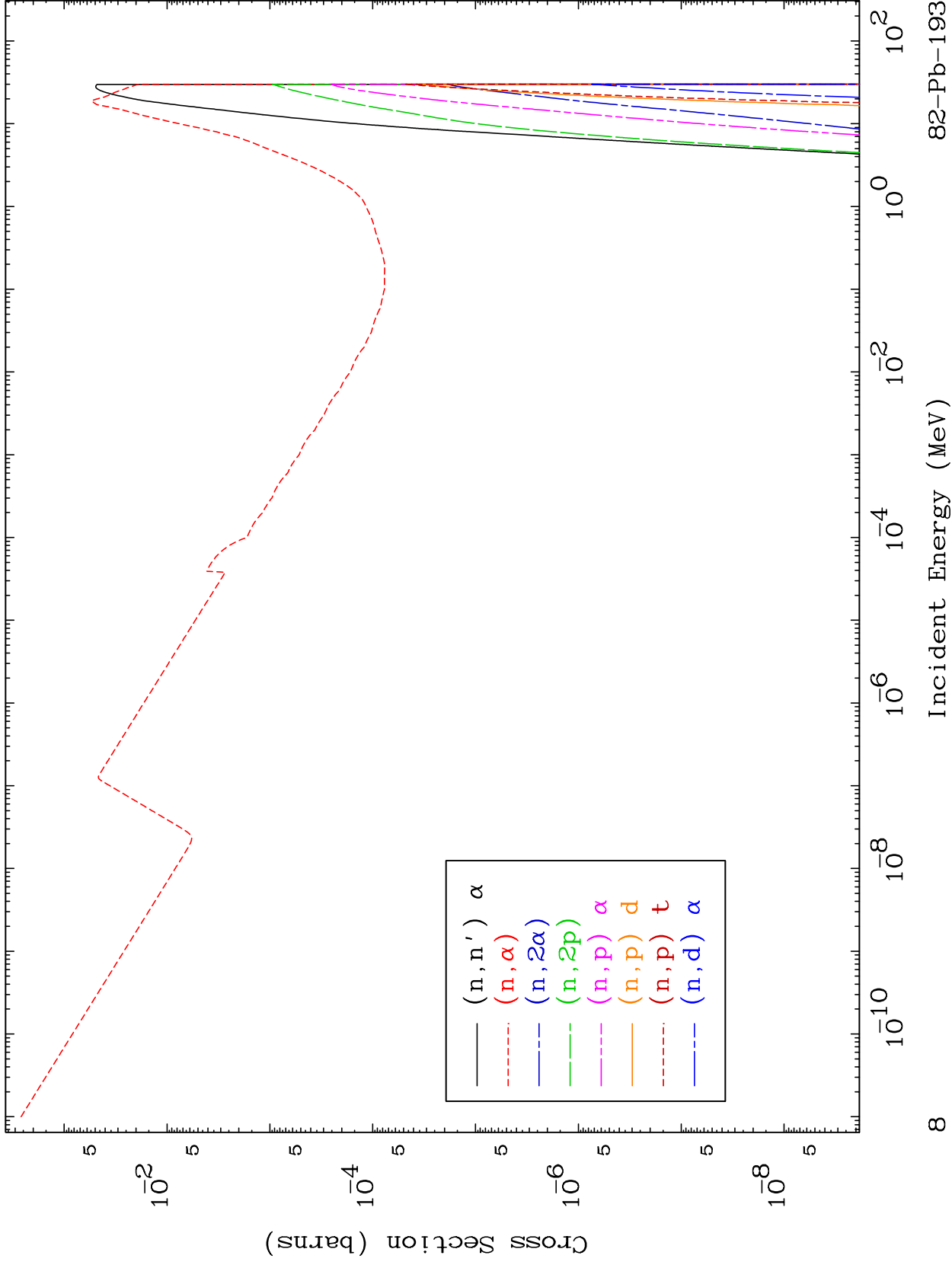


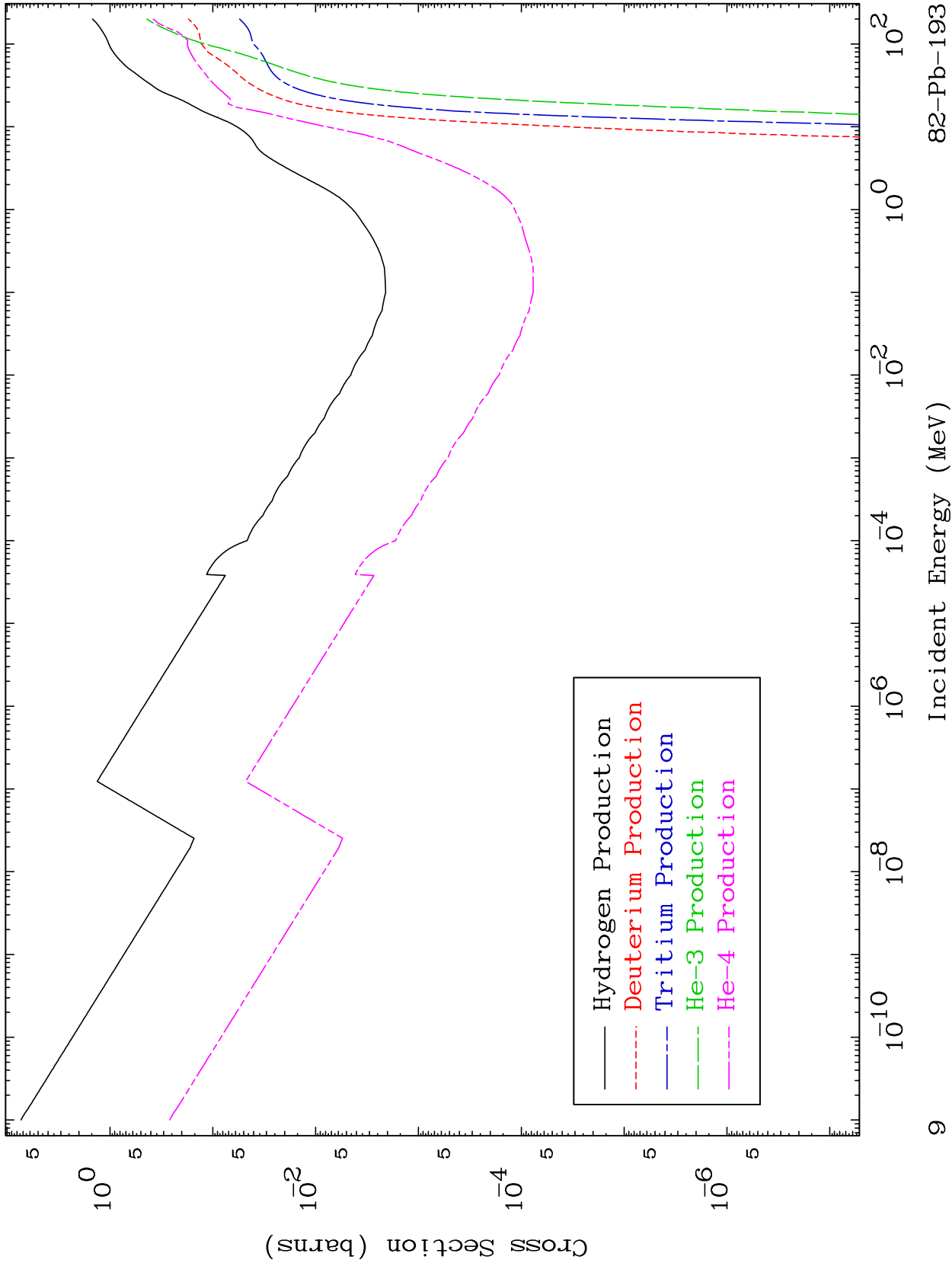


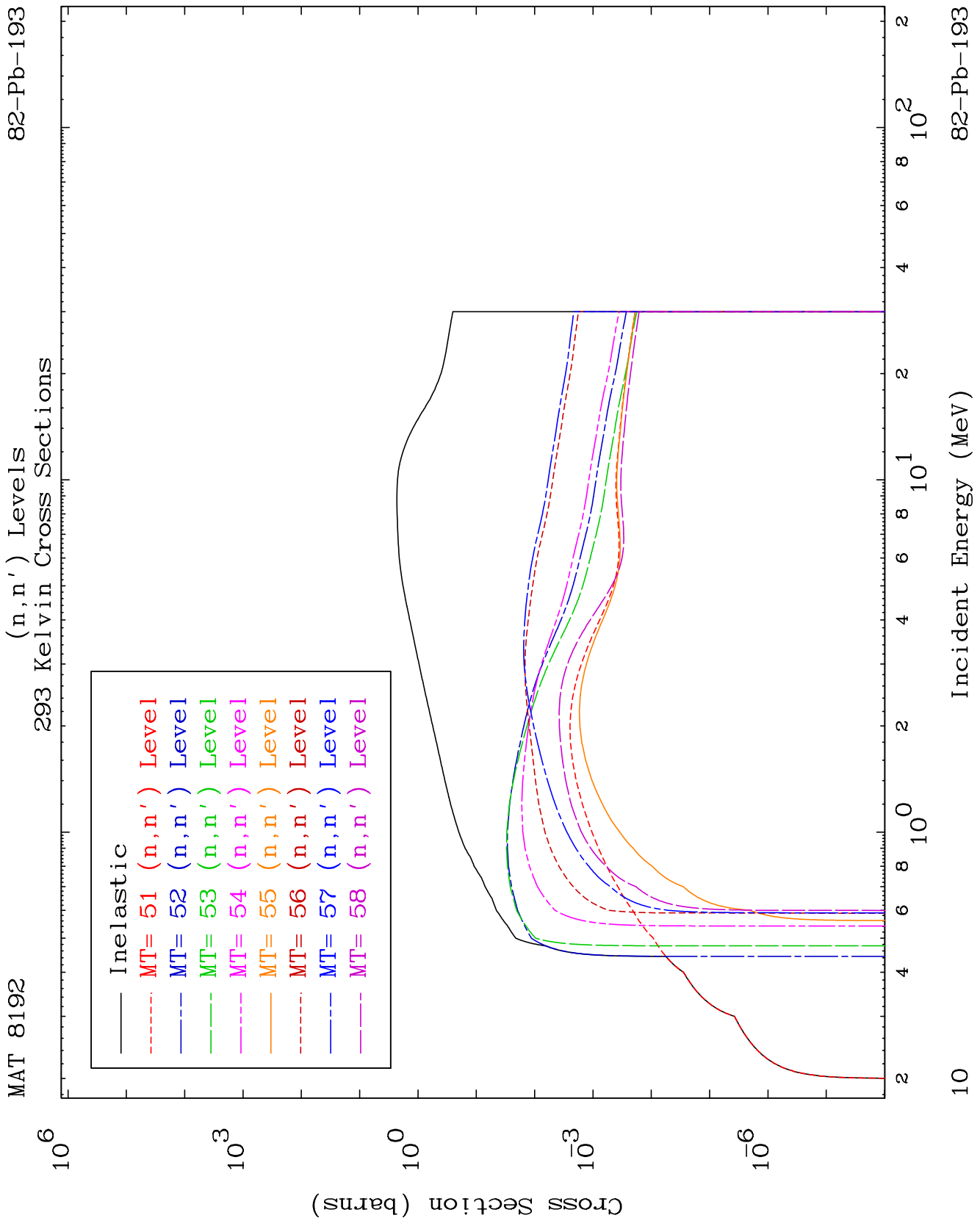
MAT 8192

Charged Particle  
293 Kelvin Cross Sections

82-Pb-193



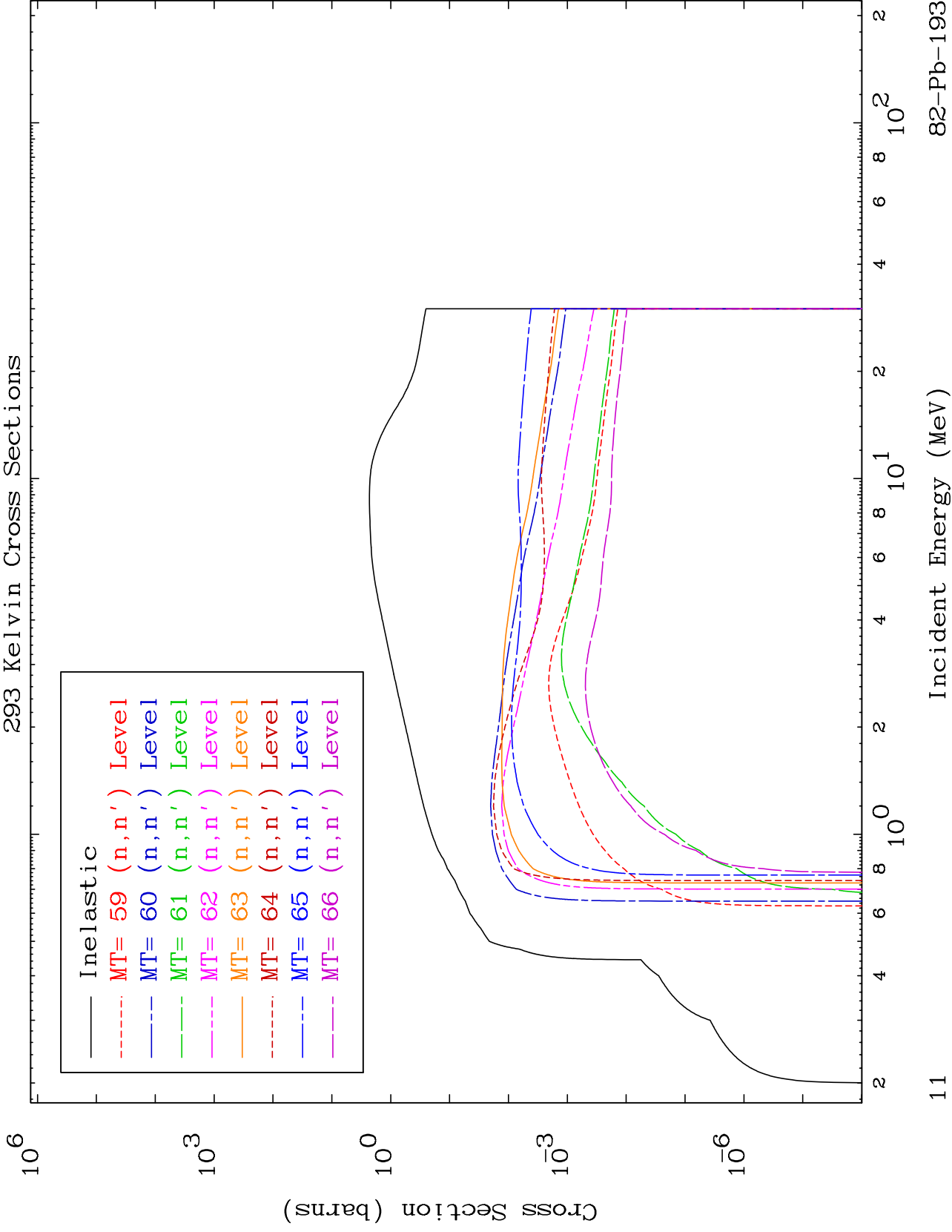




MAT 8192

(n,n') Levels  
293 Kelvin Cross Sections

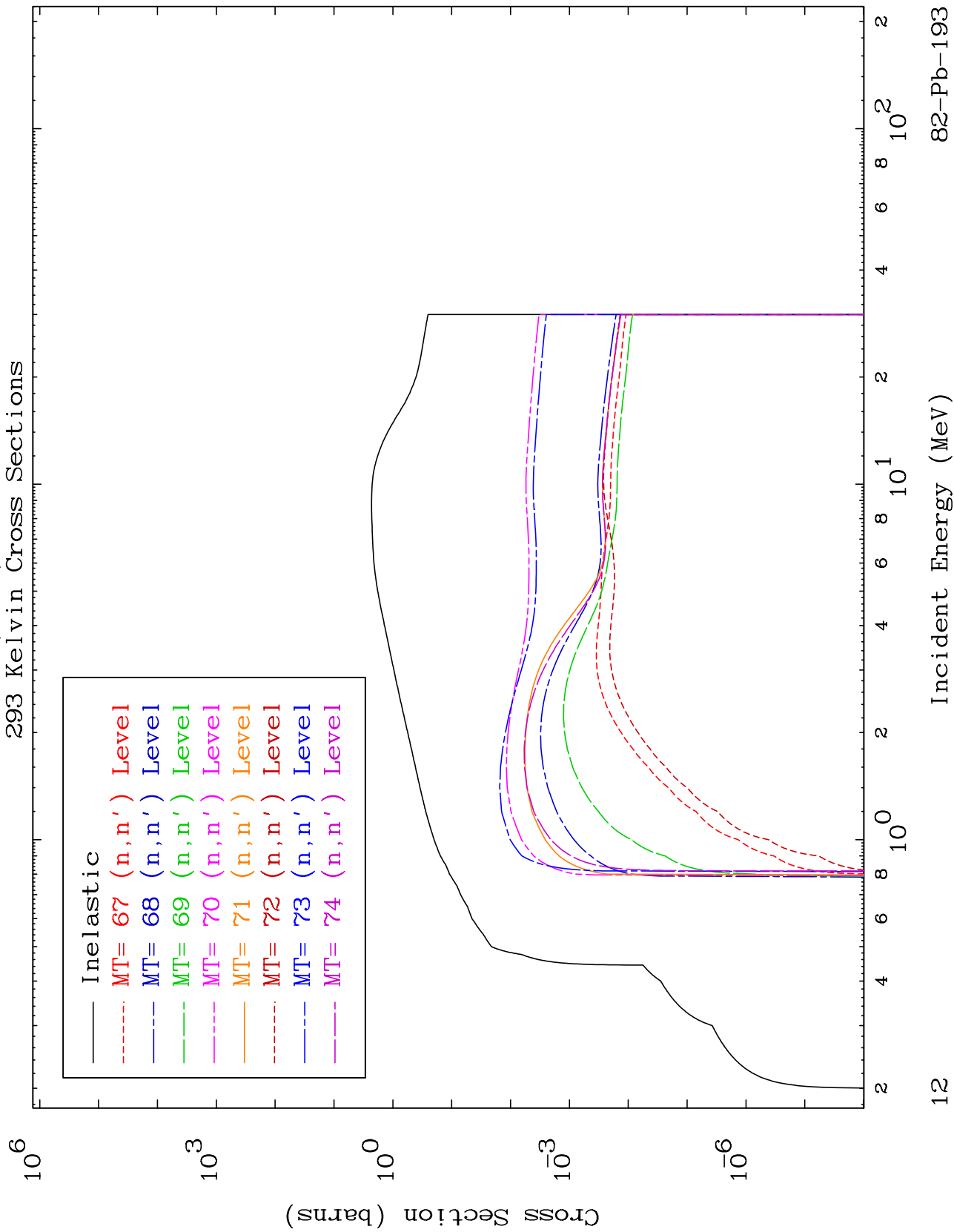
82-Pb-193



MAT 8192

82-Pb-193

(n,n') Levels  
293 Kelvin Cross Sections



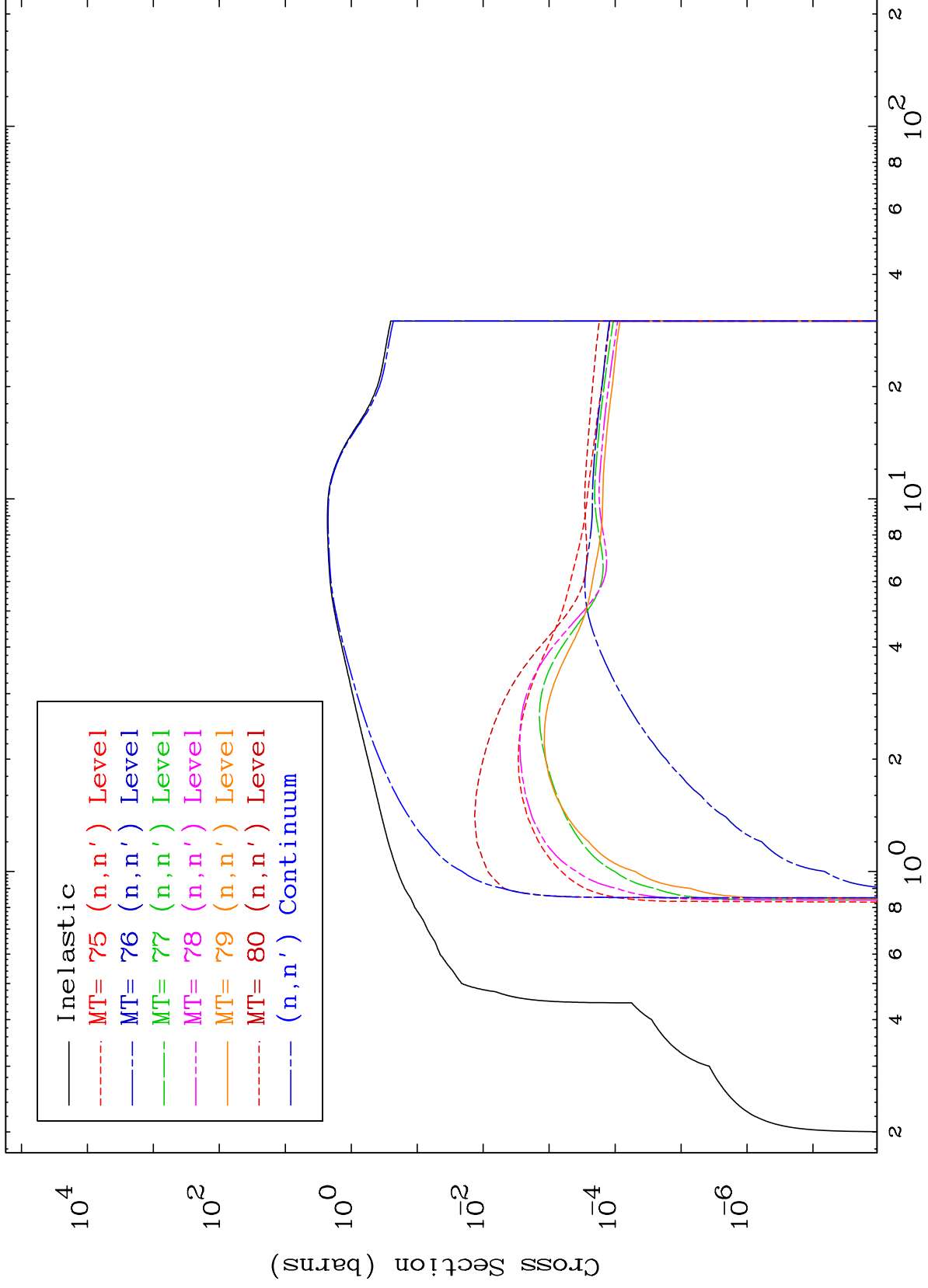
12

82-Pb-193

MAT 8192

(n,n') Levels  
293 Kelvin Cross Sections

82-Pb-193



13

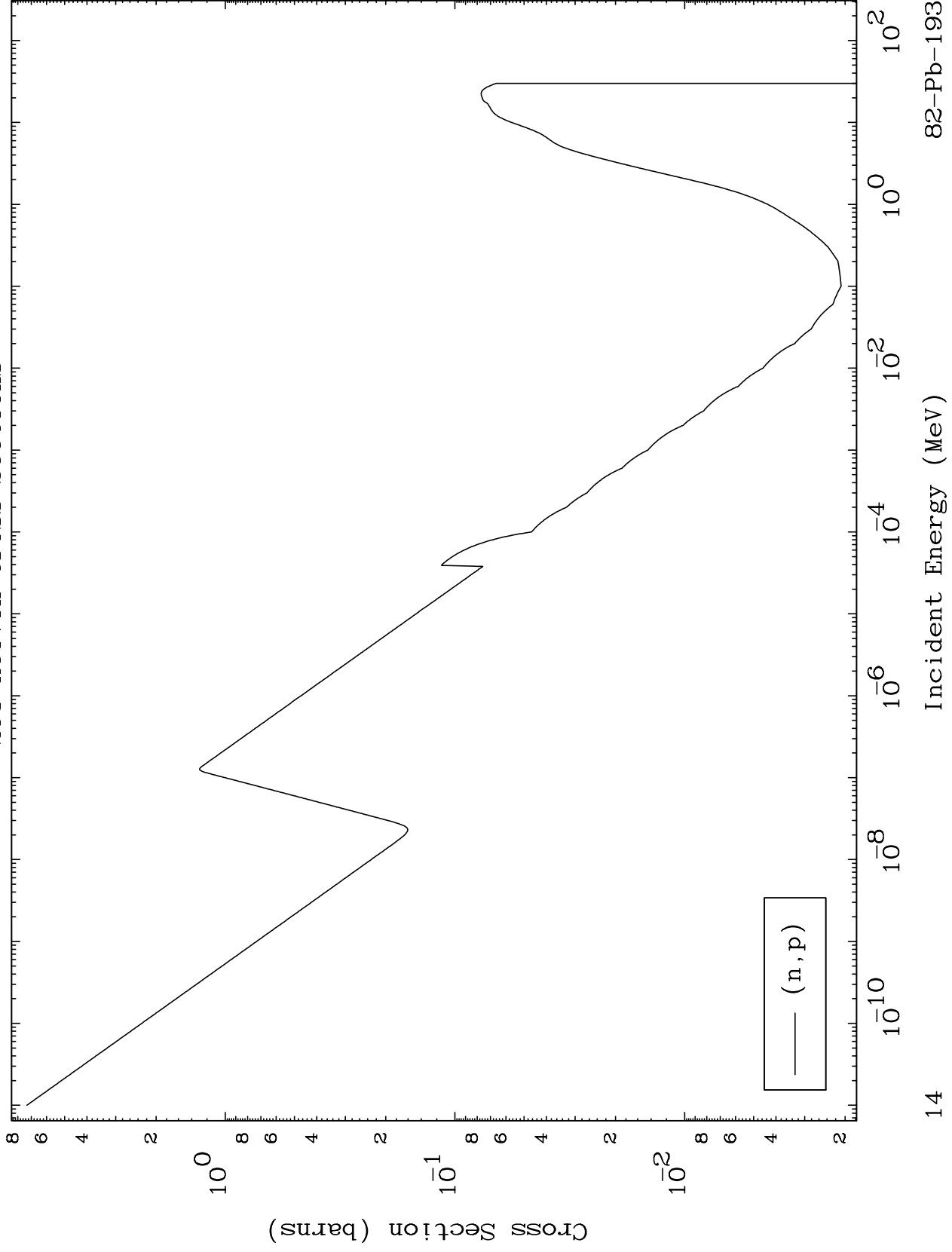
Incident Energy (MeV)

82-Pb-193

MAT 8192

(n,p) Levels  
293 Kelvin Cross Sections

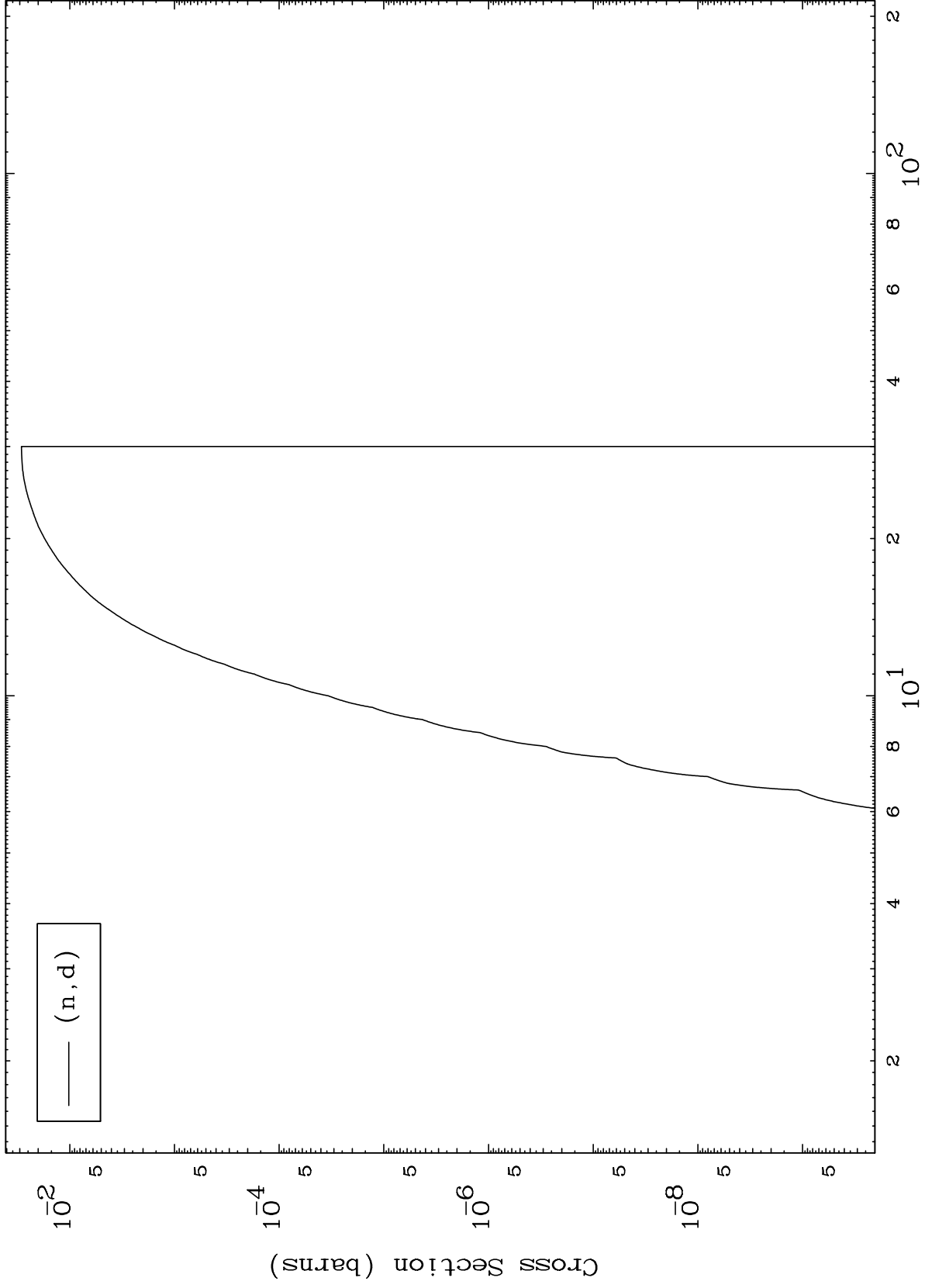
82-Pb-193



MAT 8192

(n,d) Levels  
293 Kelvin Cross Sections

82-Pb-193



15

Incident Energy (MeV)

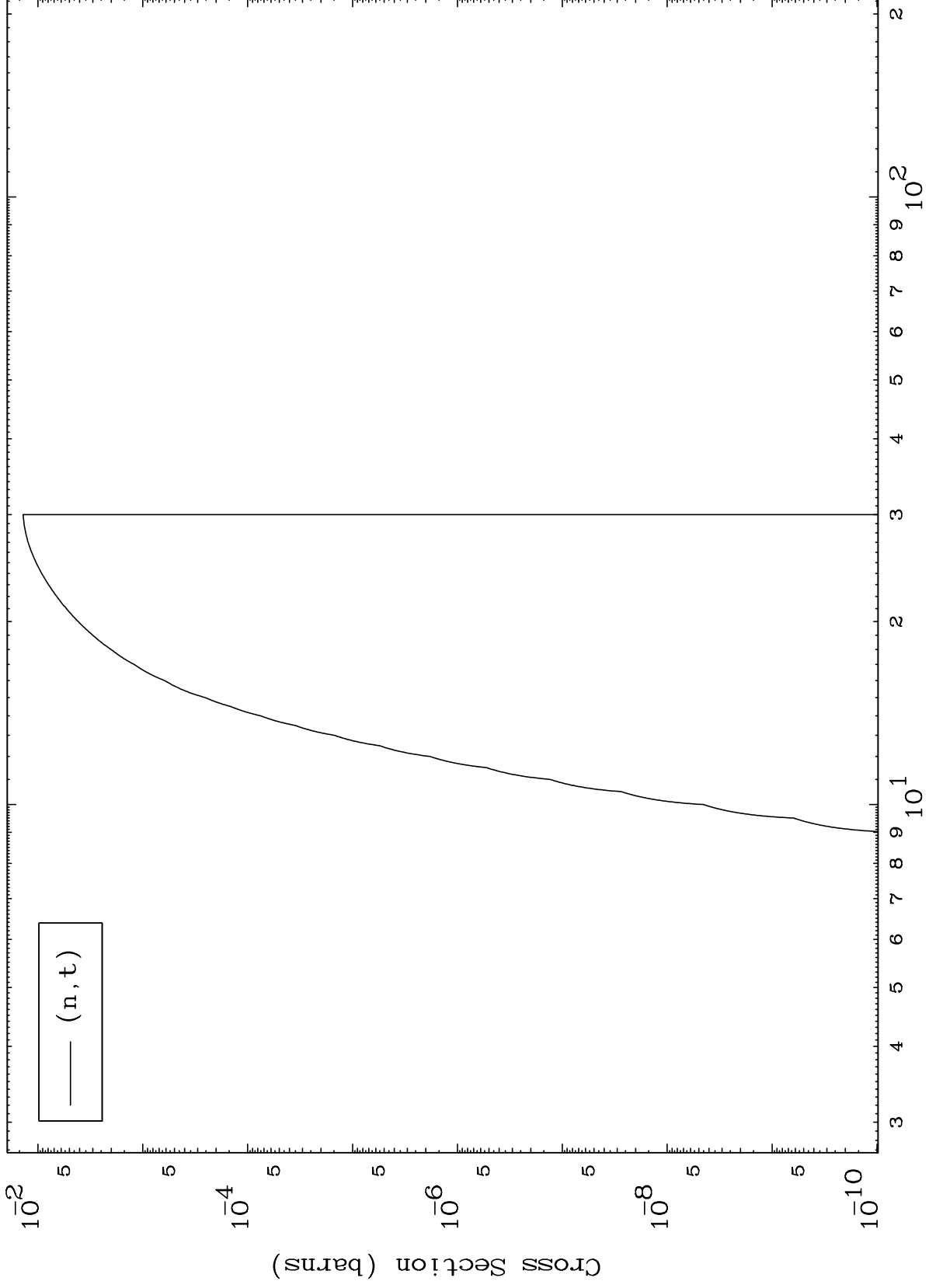
82-Pb-193



MAT 8192

(n,t) Levels  
293 Kelvin Cross Sections

82-Pb-193



16

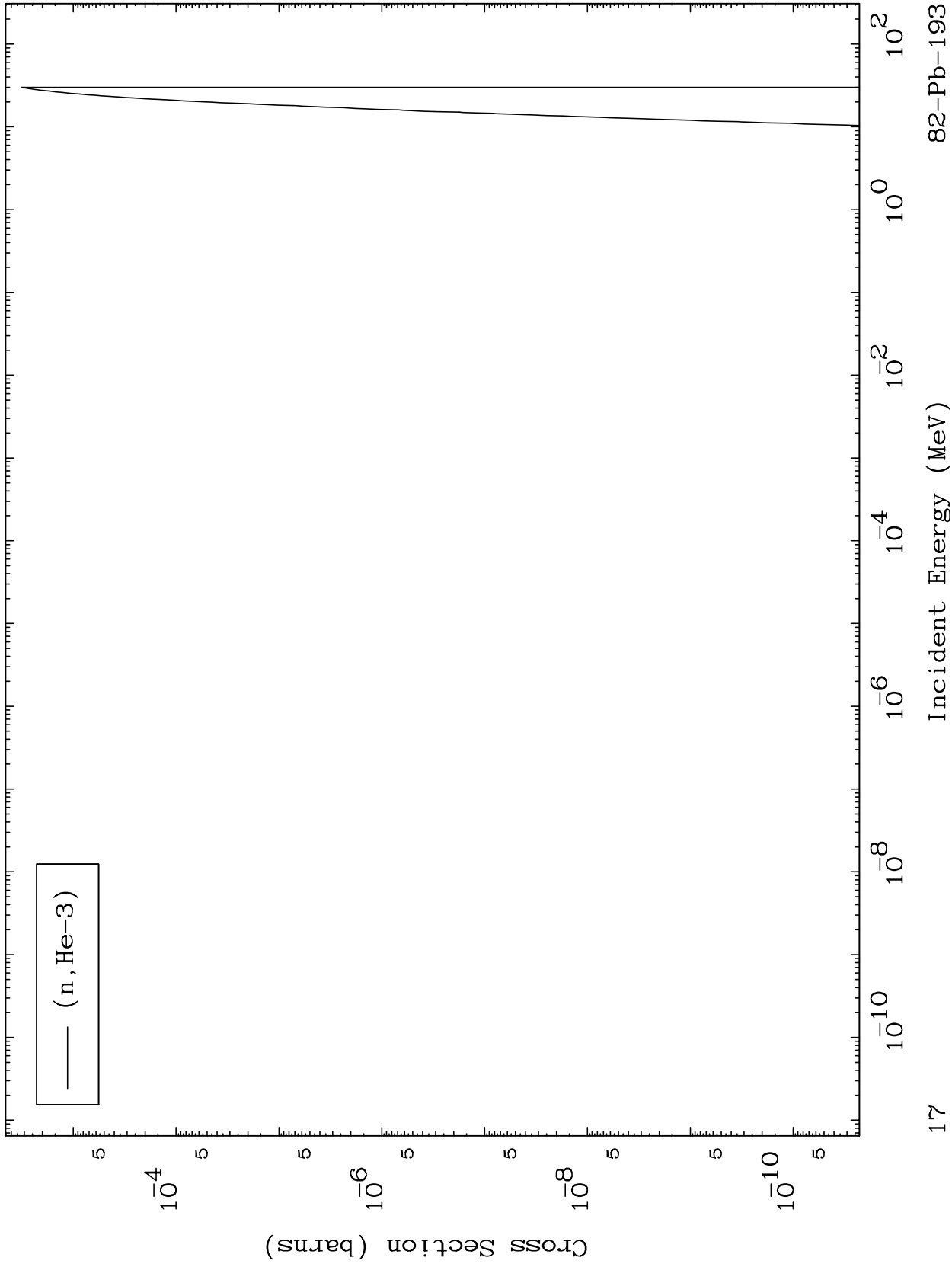
Incident Energy (MeV)

82-Pb-193

MAT 8192

(n,He3) Levels  
293 Kelvin Cross Sections

82-Pb-193

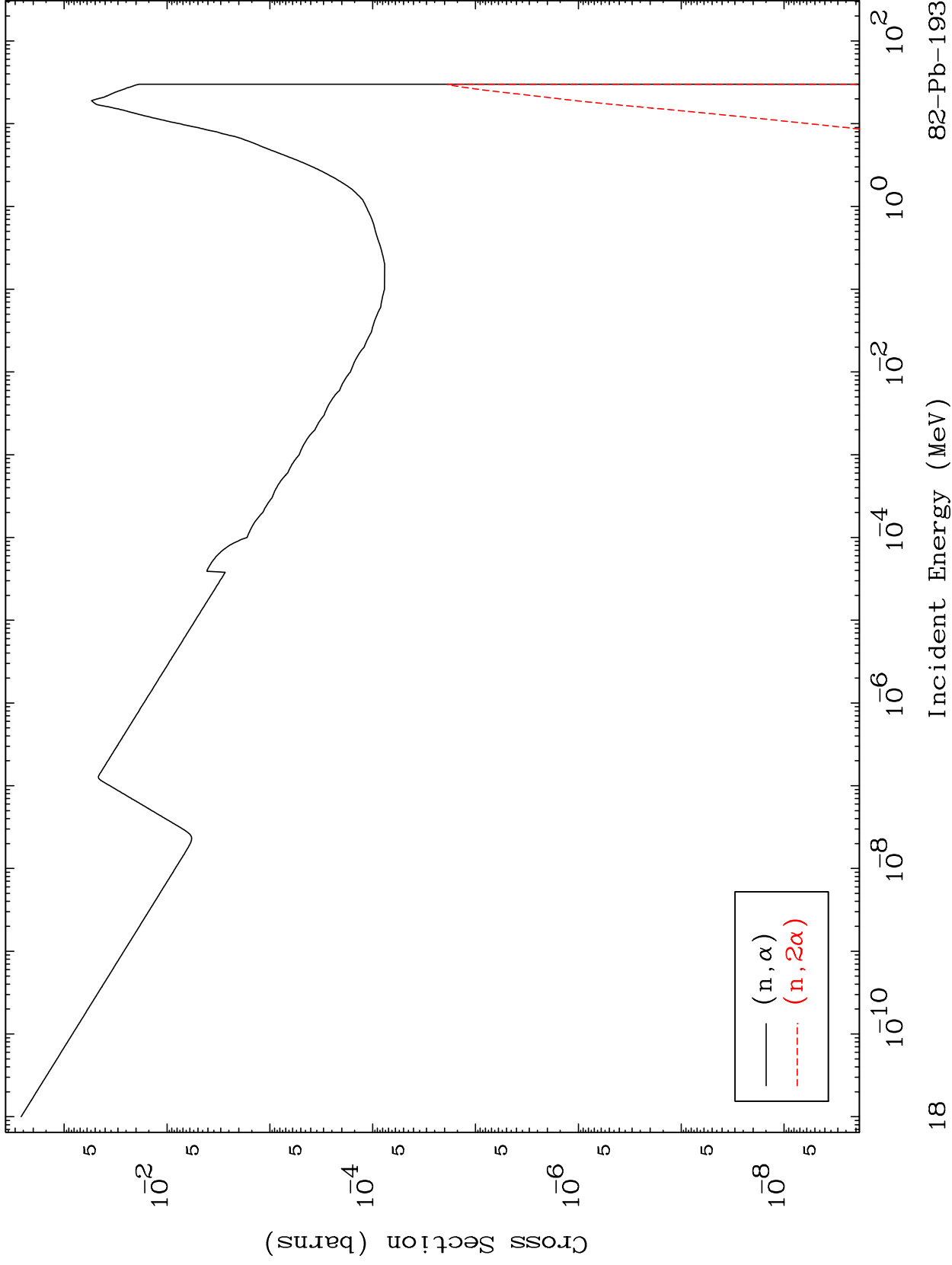


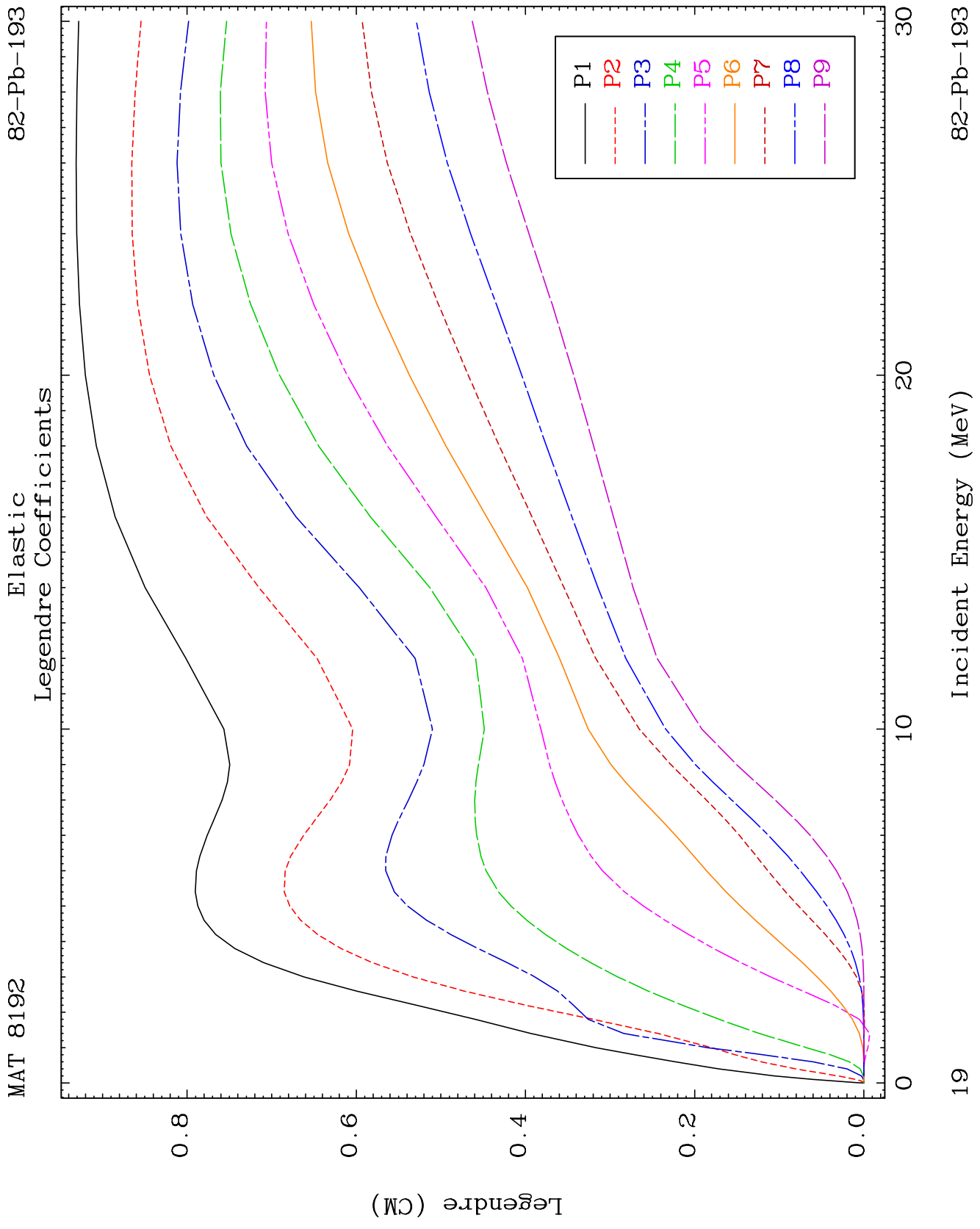
(n, He-3)

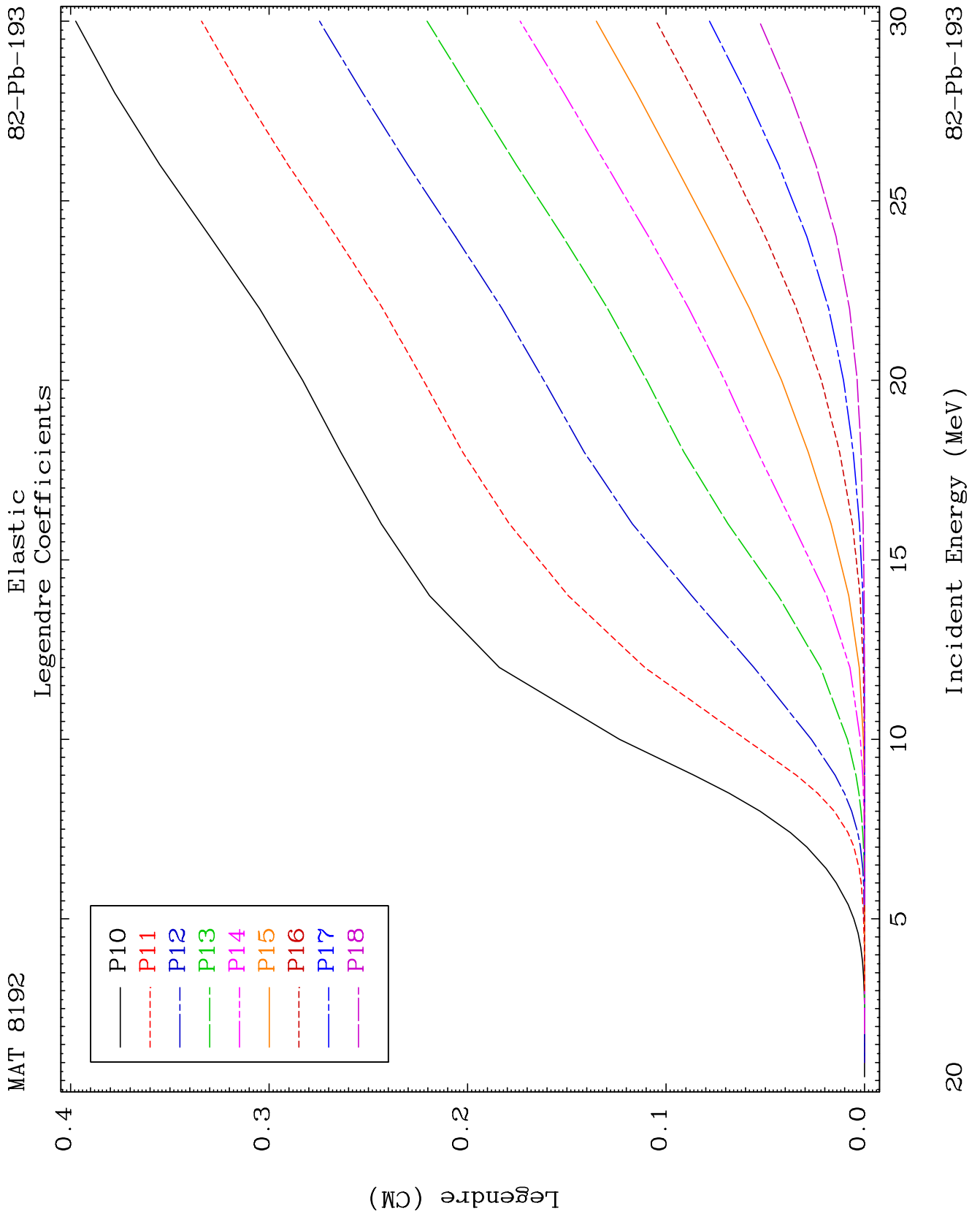
MAT 8192

$(n, \alpha)$  Levels  
293 Kelvin Cross Sections

82-Pb-193



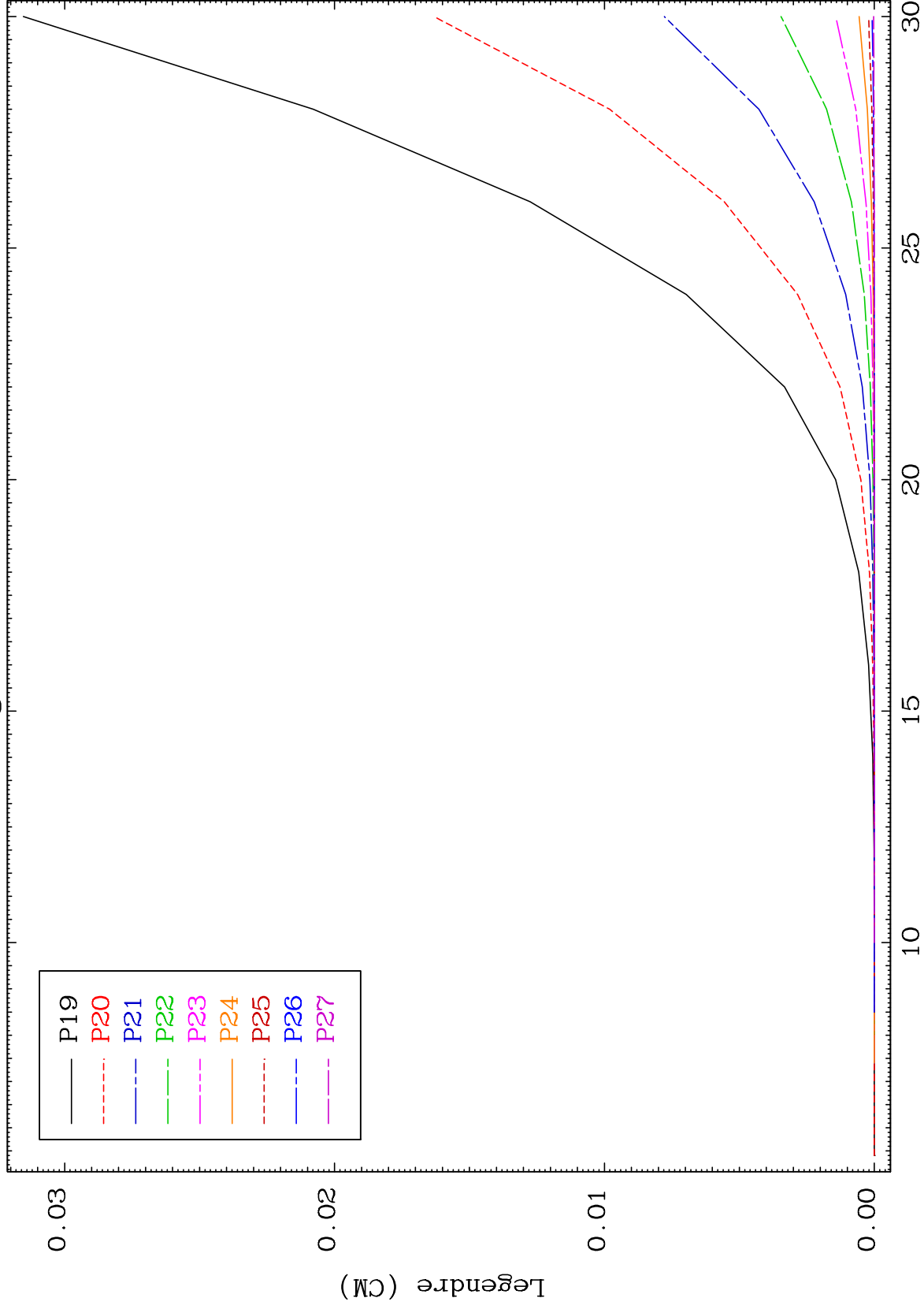




MAT 8192

### Elastic Legendre Coefficients

82-Pb-193



21

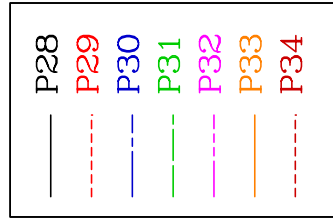
Incident Energy (MeV)

82-Pb-193

MAT 8192

Elastic  
Legendre Coefficients

82-Pb-193



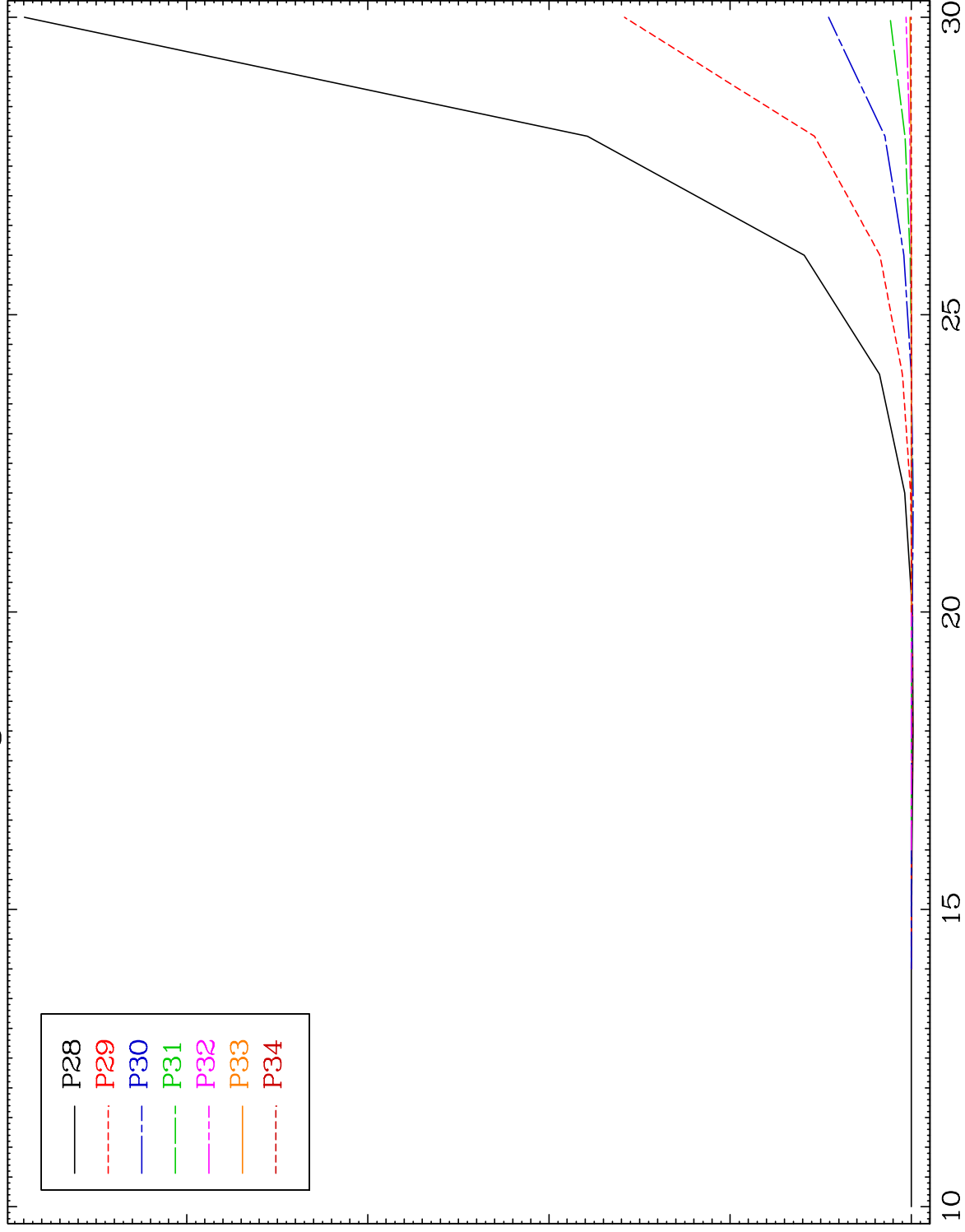
$\times 10^{-6}$

Legendre (CM)

22

Incident Energy (MeV)

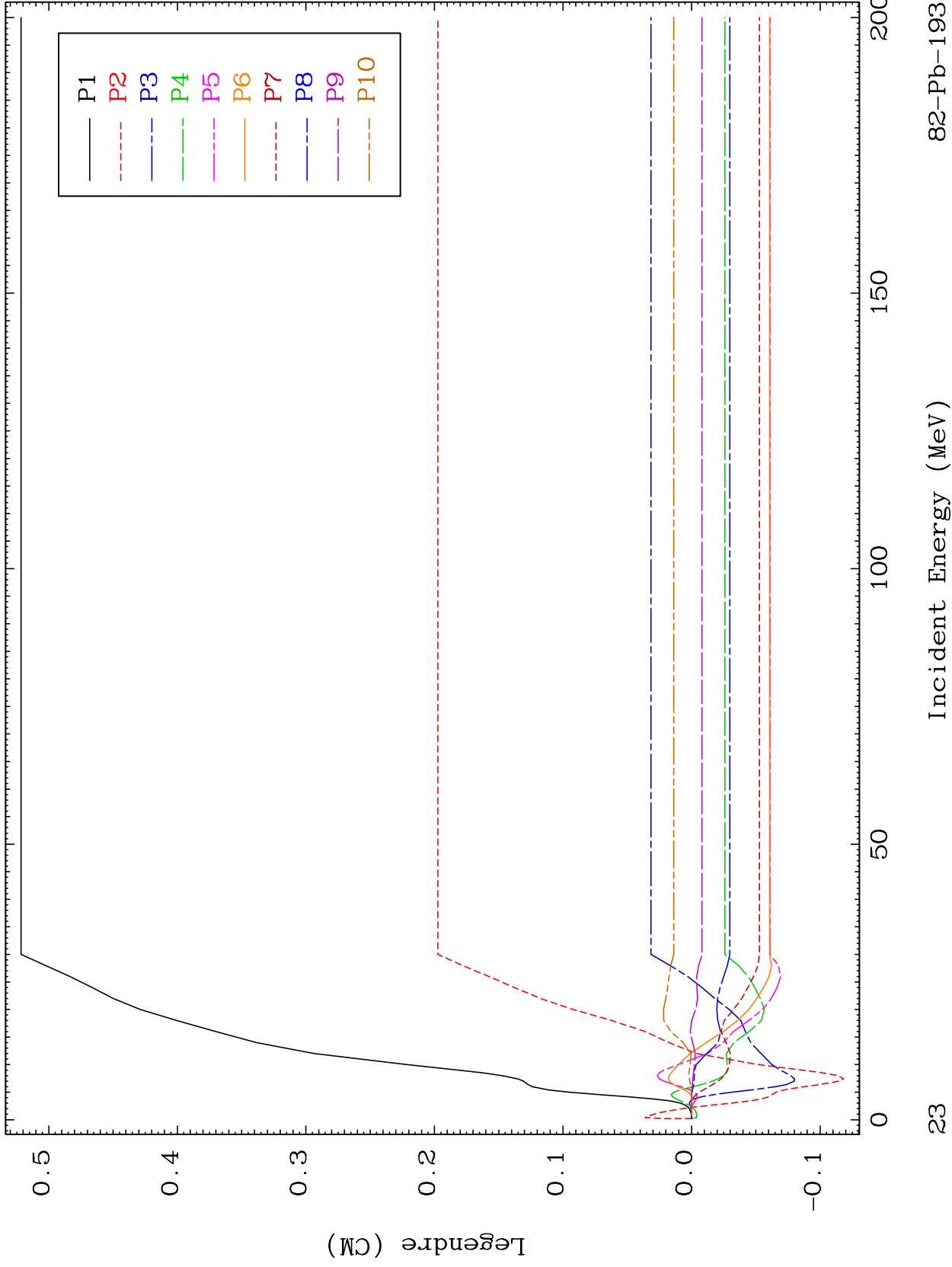
82-Pb-193



MAT 8192

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

82-Pb-193



82-Pb-193

Incident Energy (MeV)

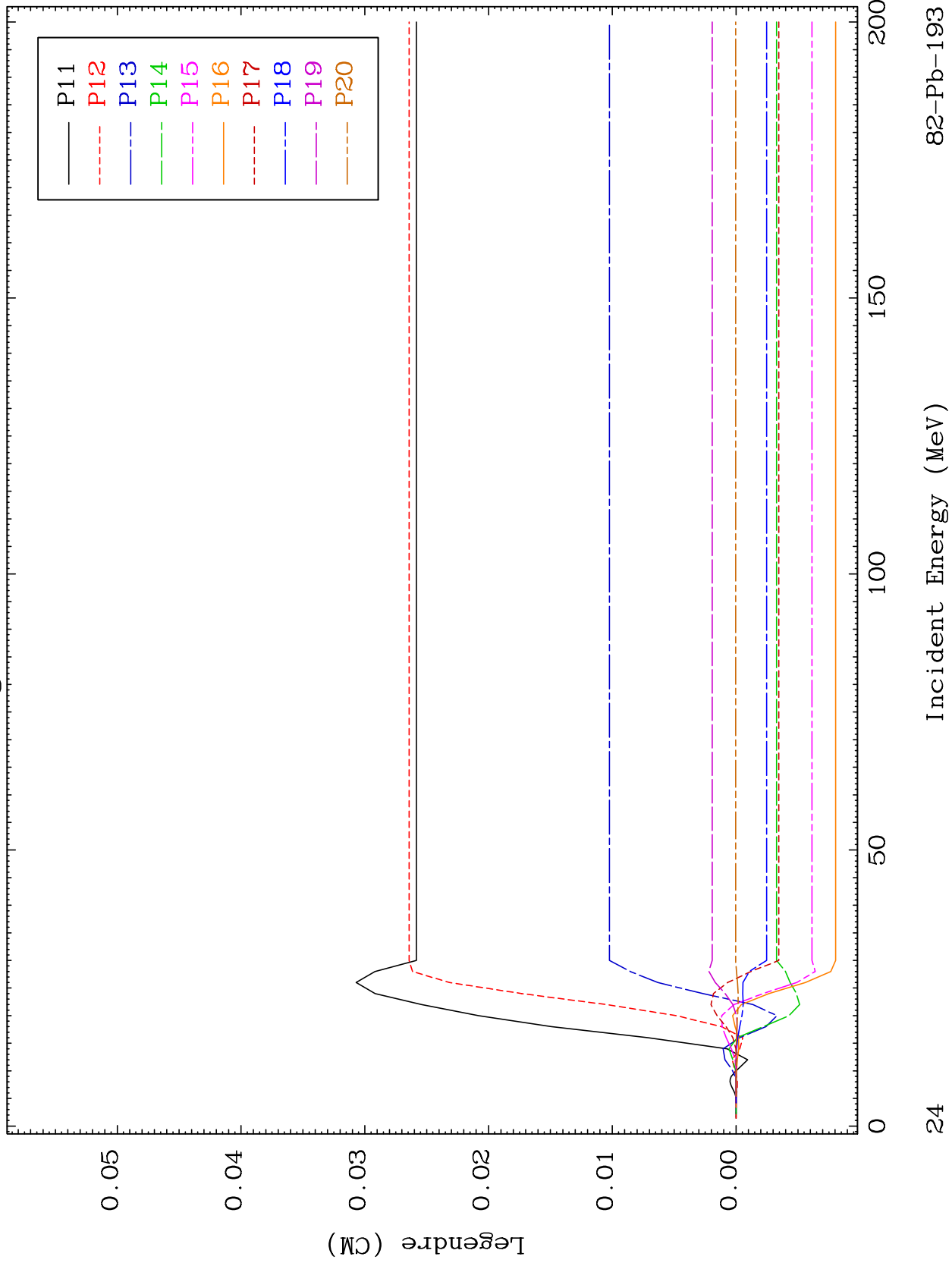
23



MAT 8192

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

82-Pb-193

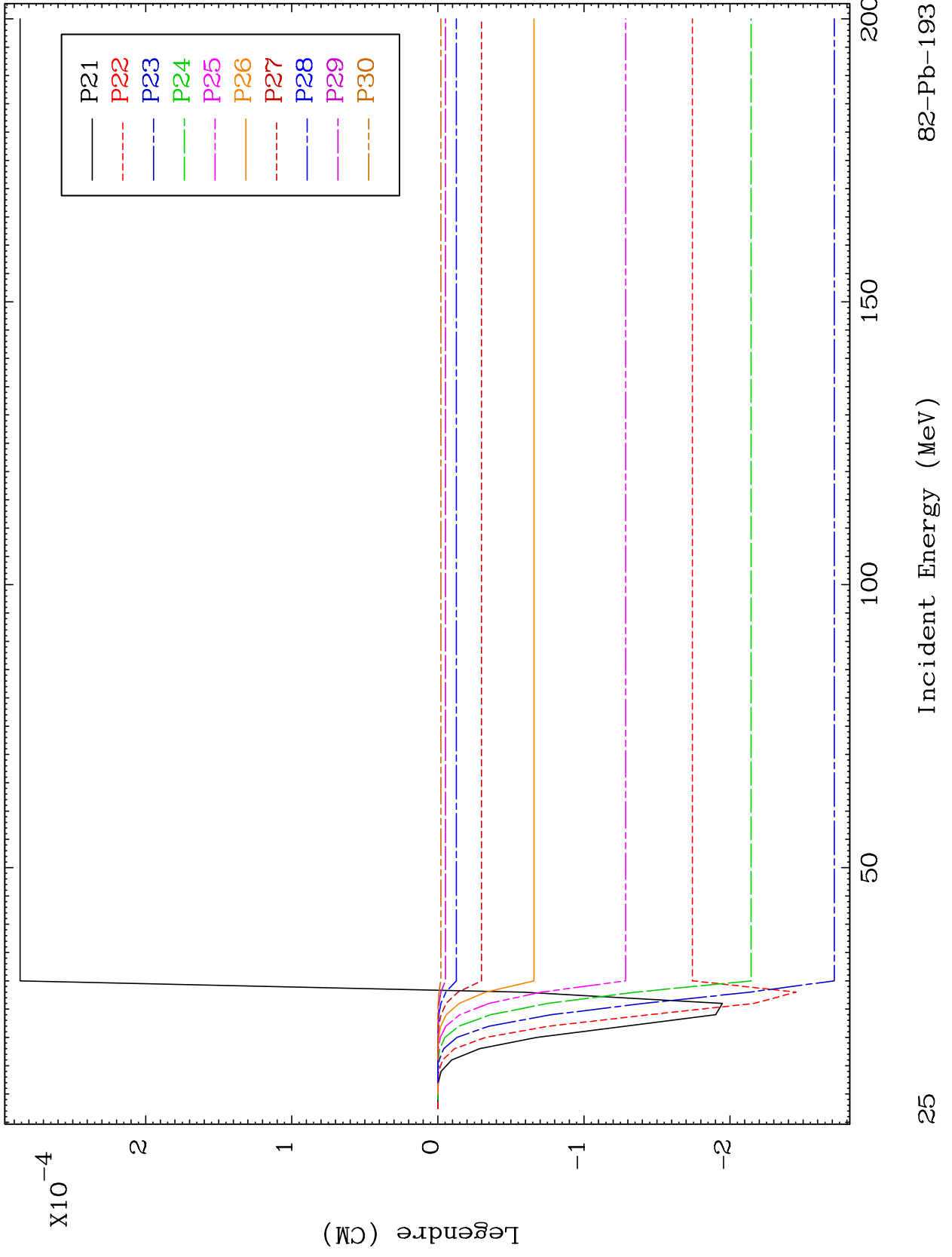


24

MAT 8192

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

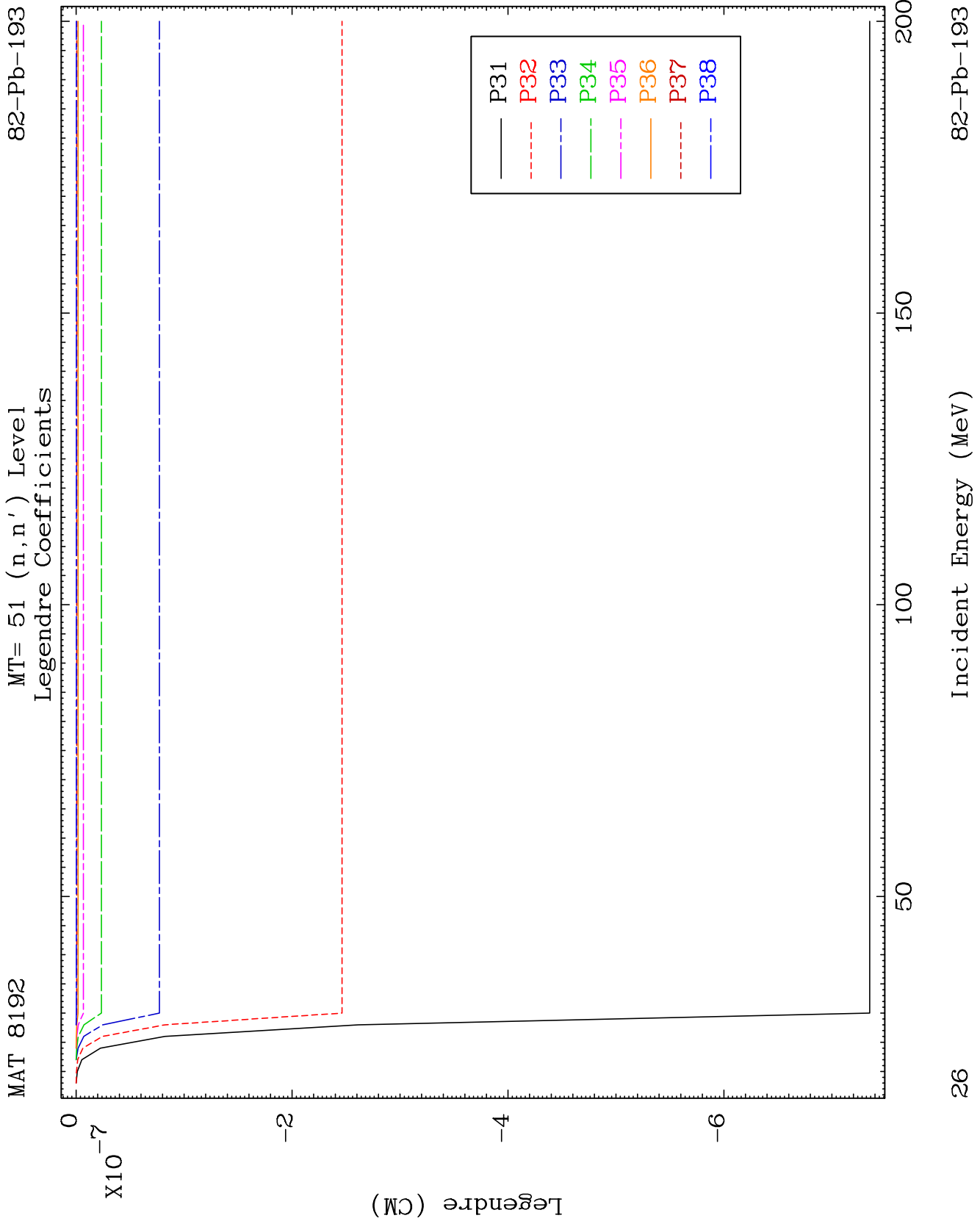
82-Pb-193



25

Incident Energy (MeV)

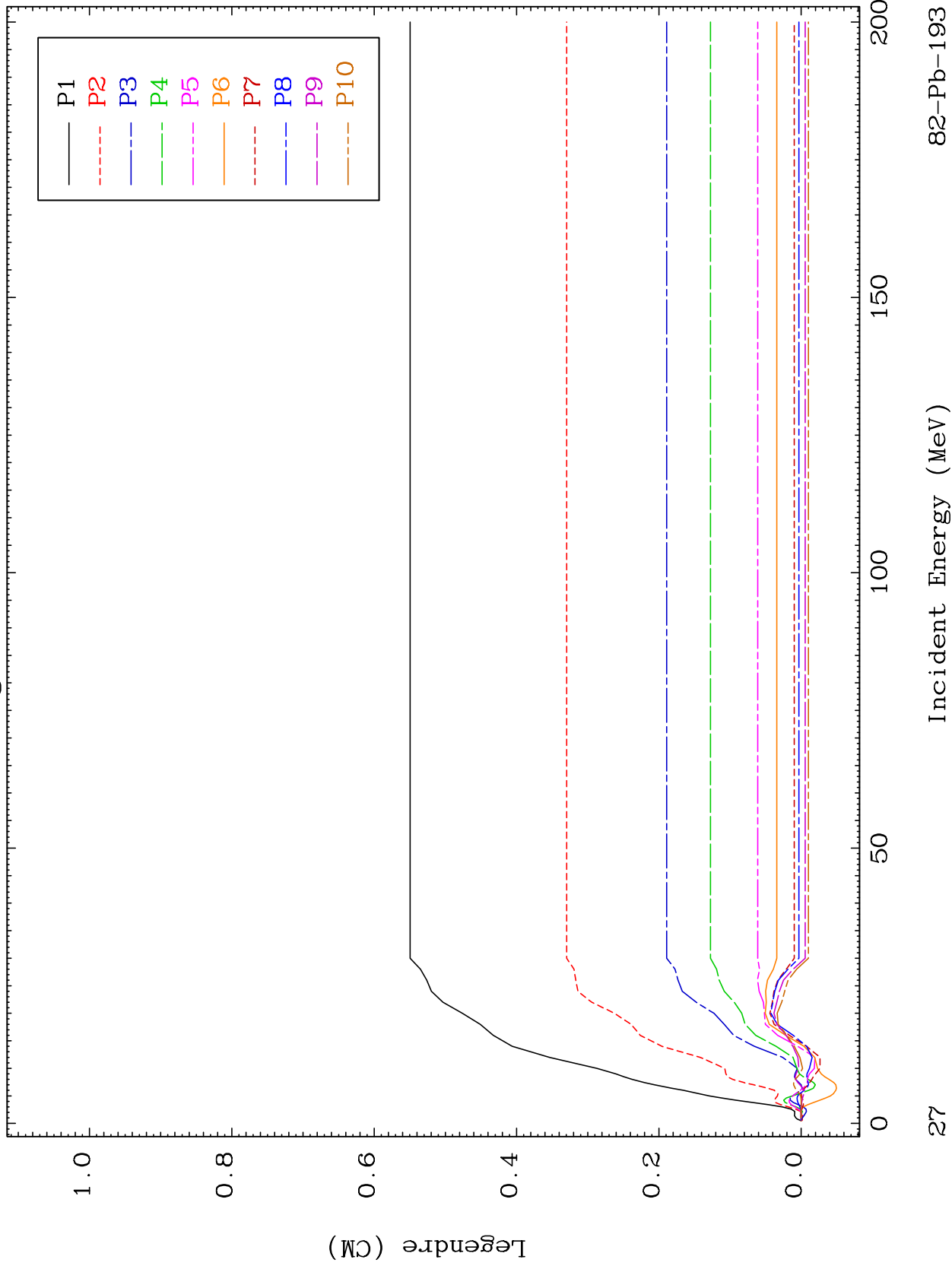
82-Pb-193



MAT 8192

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

82-Pb-193



27

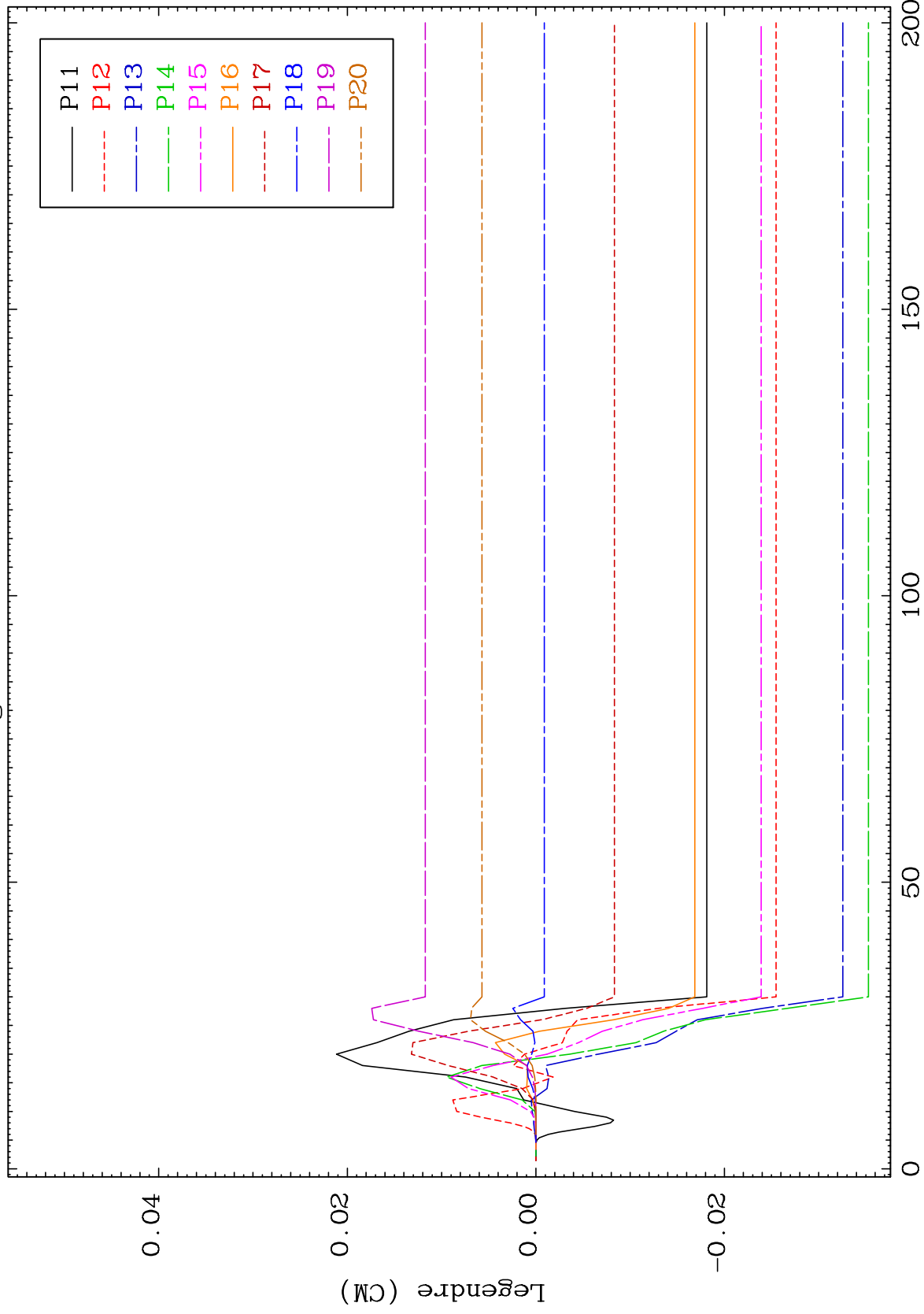
Incident Energy (MeV)

82-Pb-193

MAT 8192

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

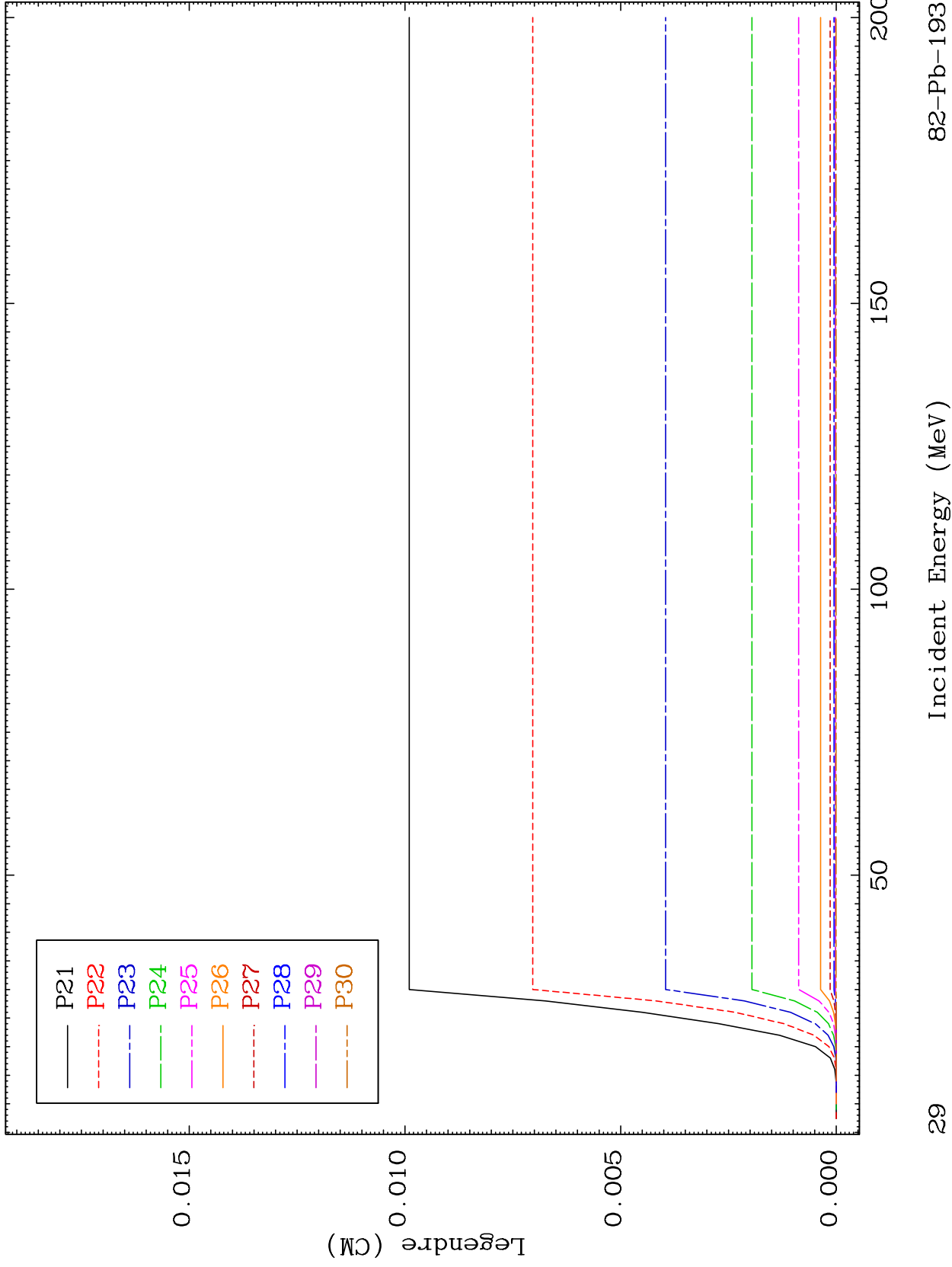
82-Pb-193



28

Incident Energy (MeV)

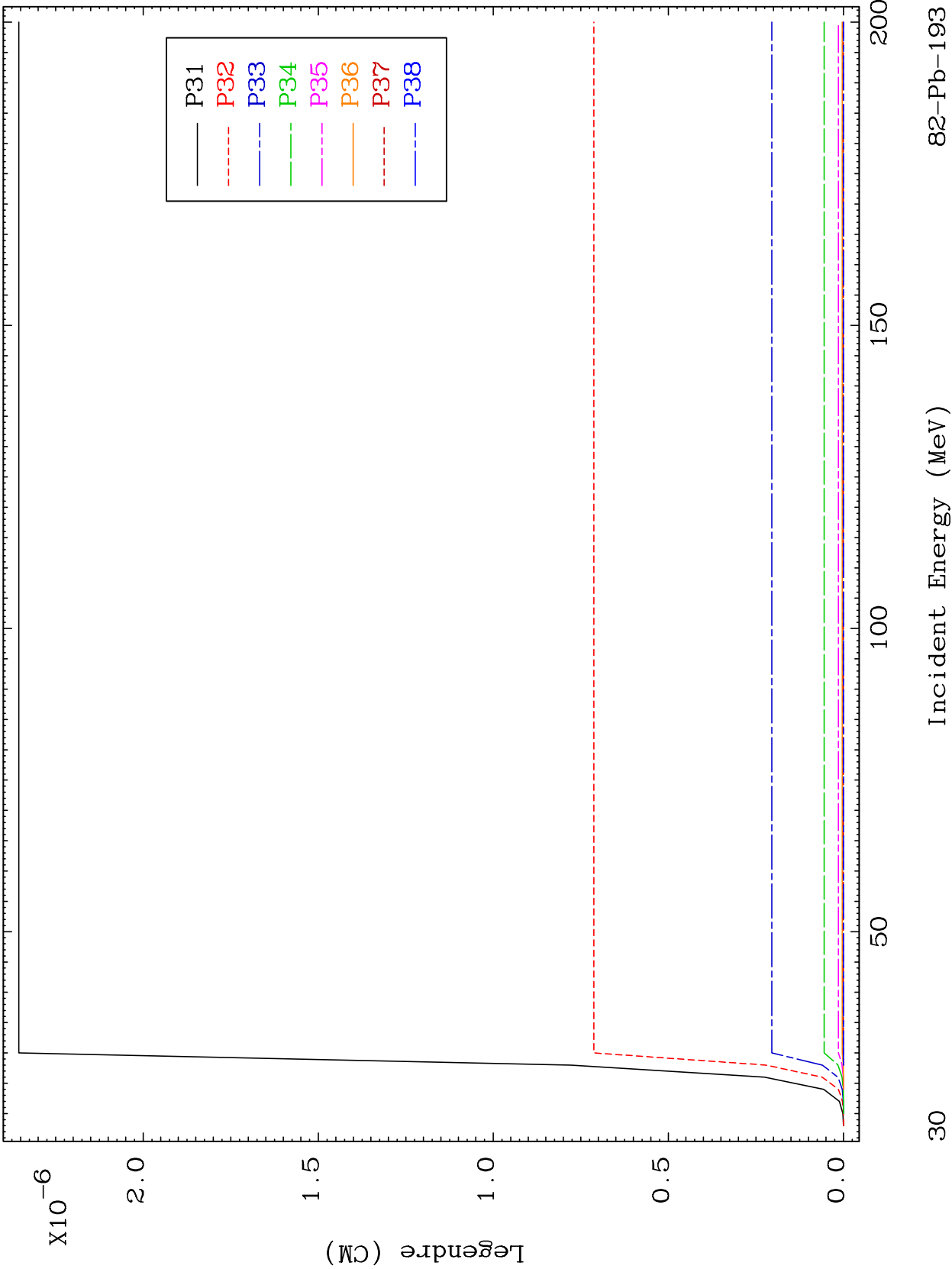
82-Pb-193



MAT 8192

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

82-Pb-193



82-Pb-193

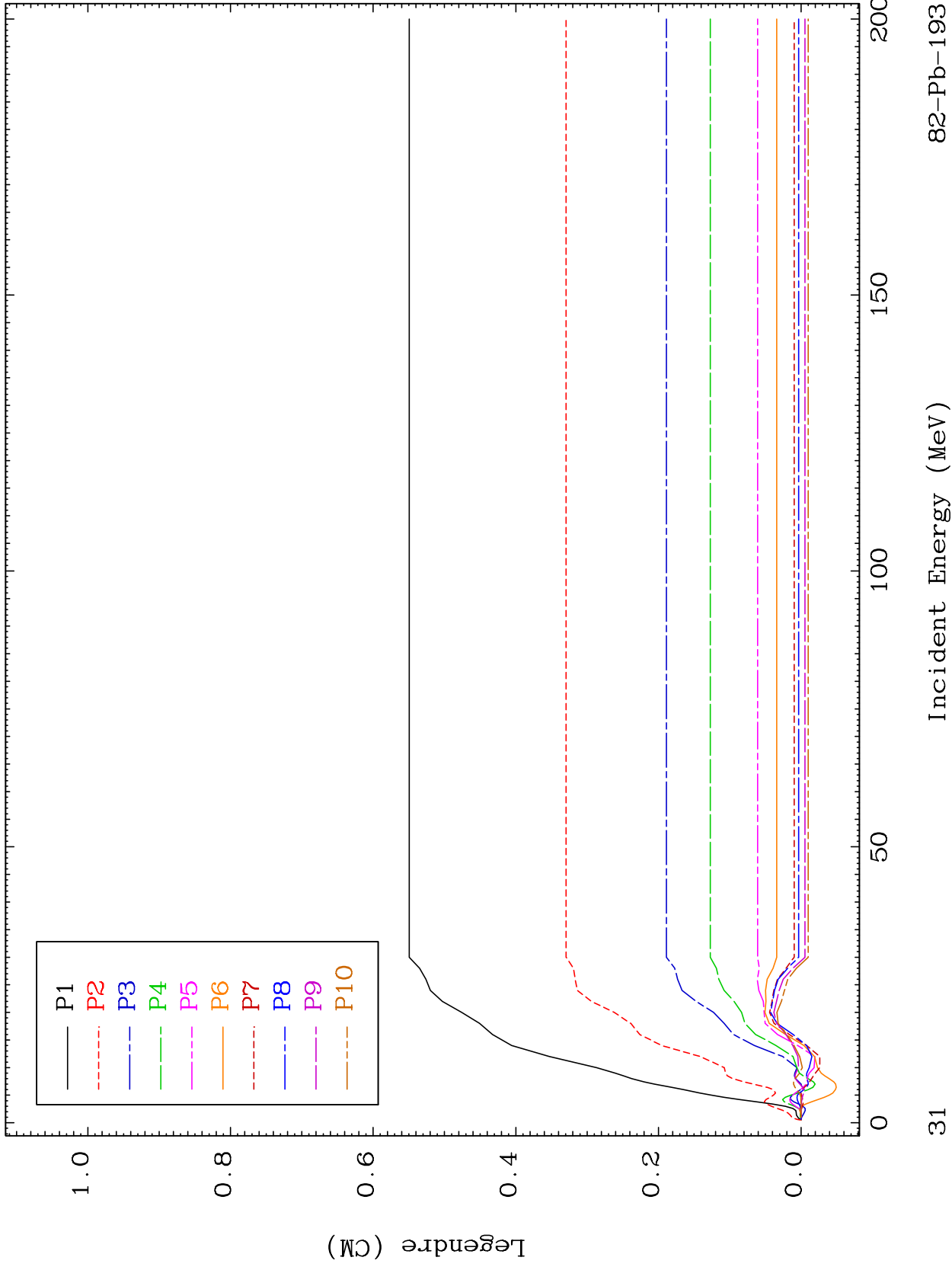
Incident Energy (MeV)

30

MAT 8192

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

82-Pb-193



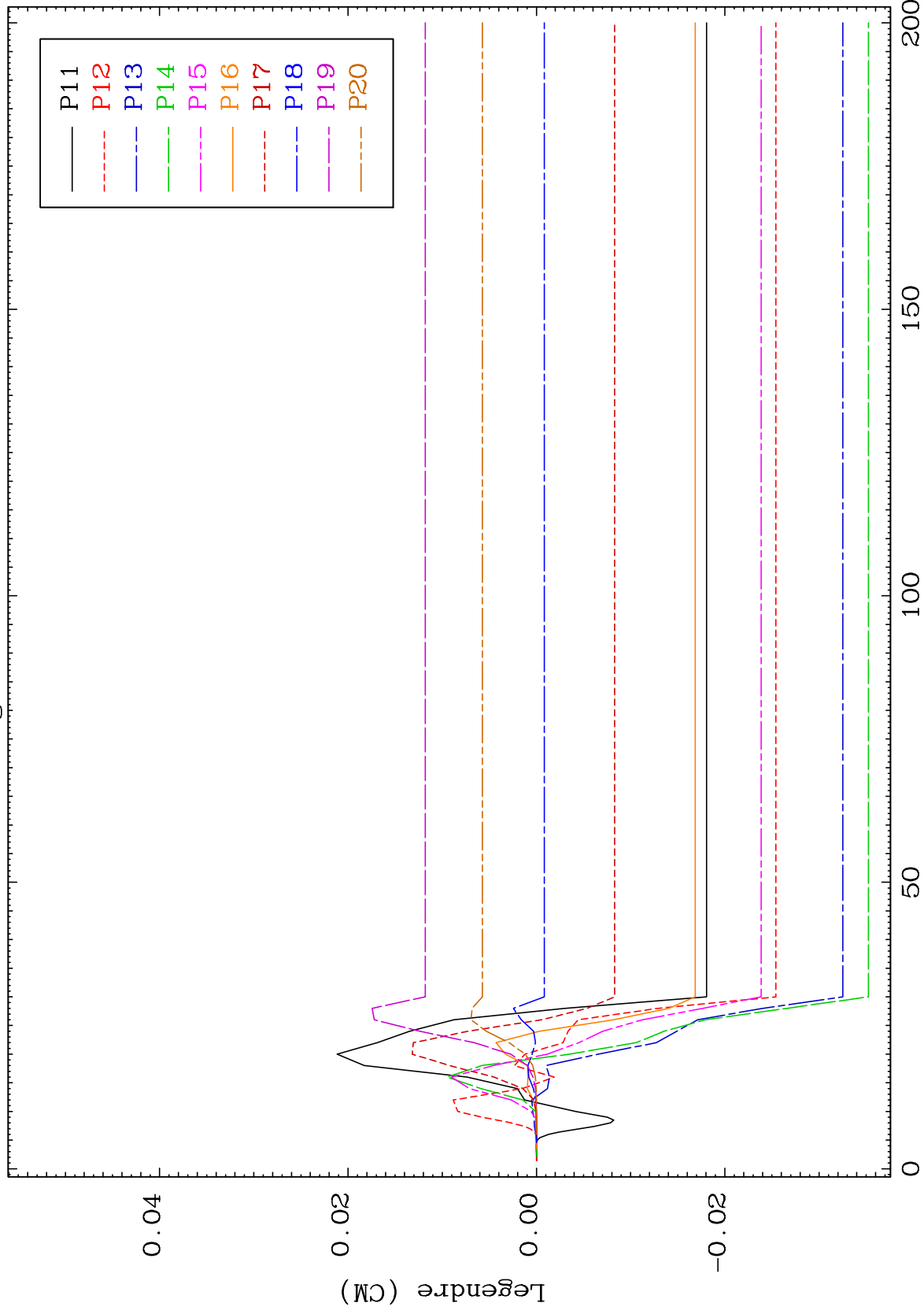
31



MAT 8192

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

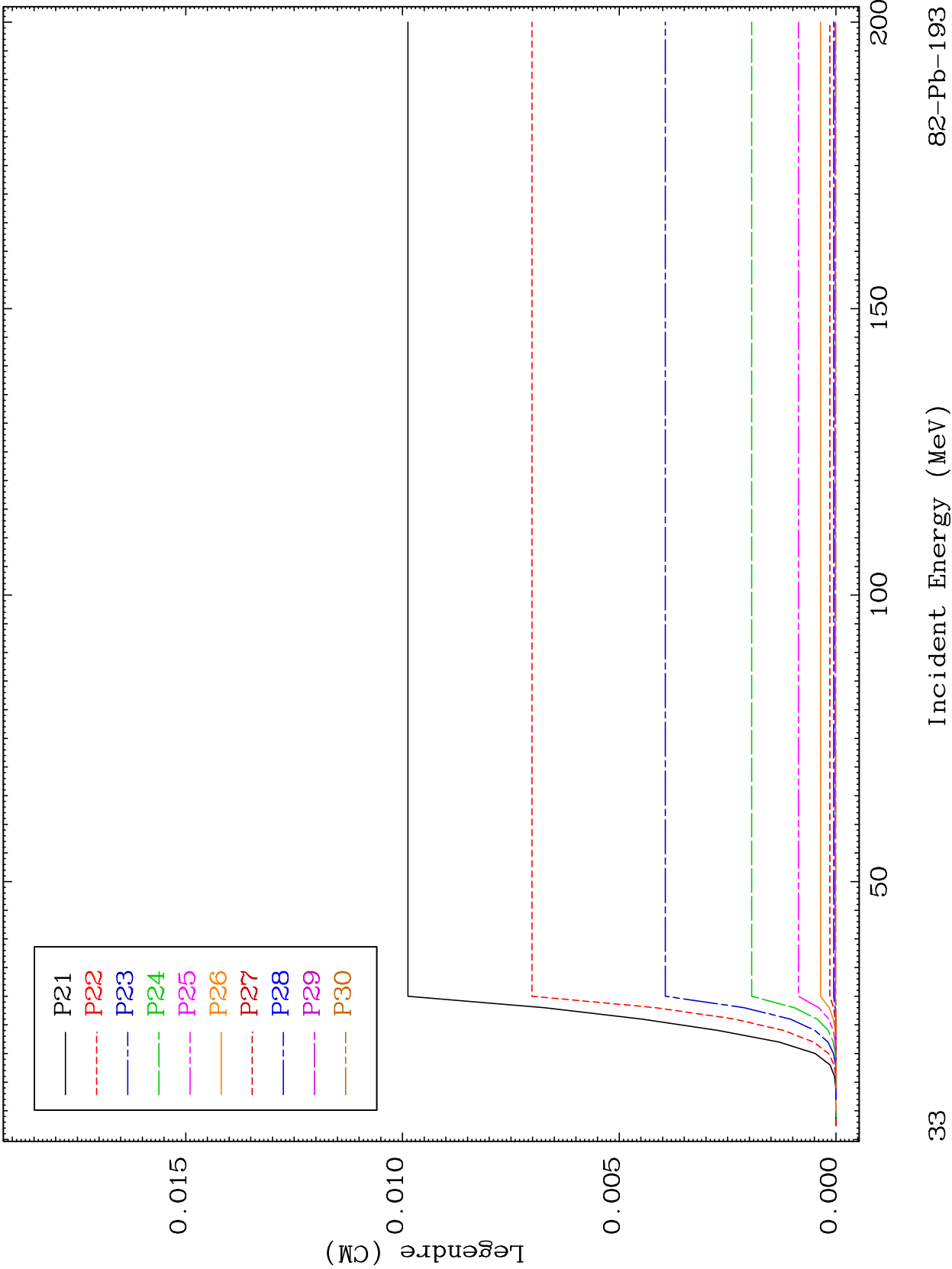
82-Pb-193



32

Incident Energy (MeV)

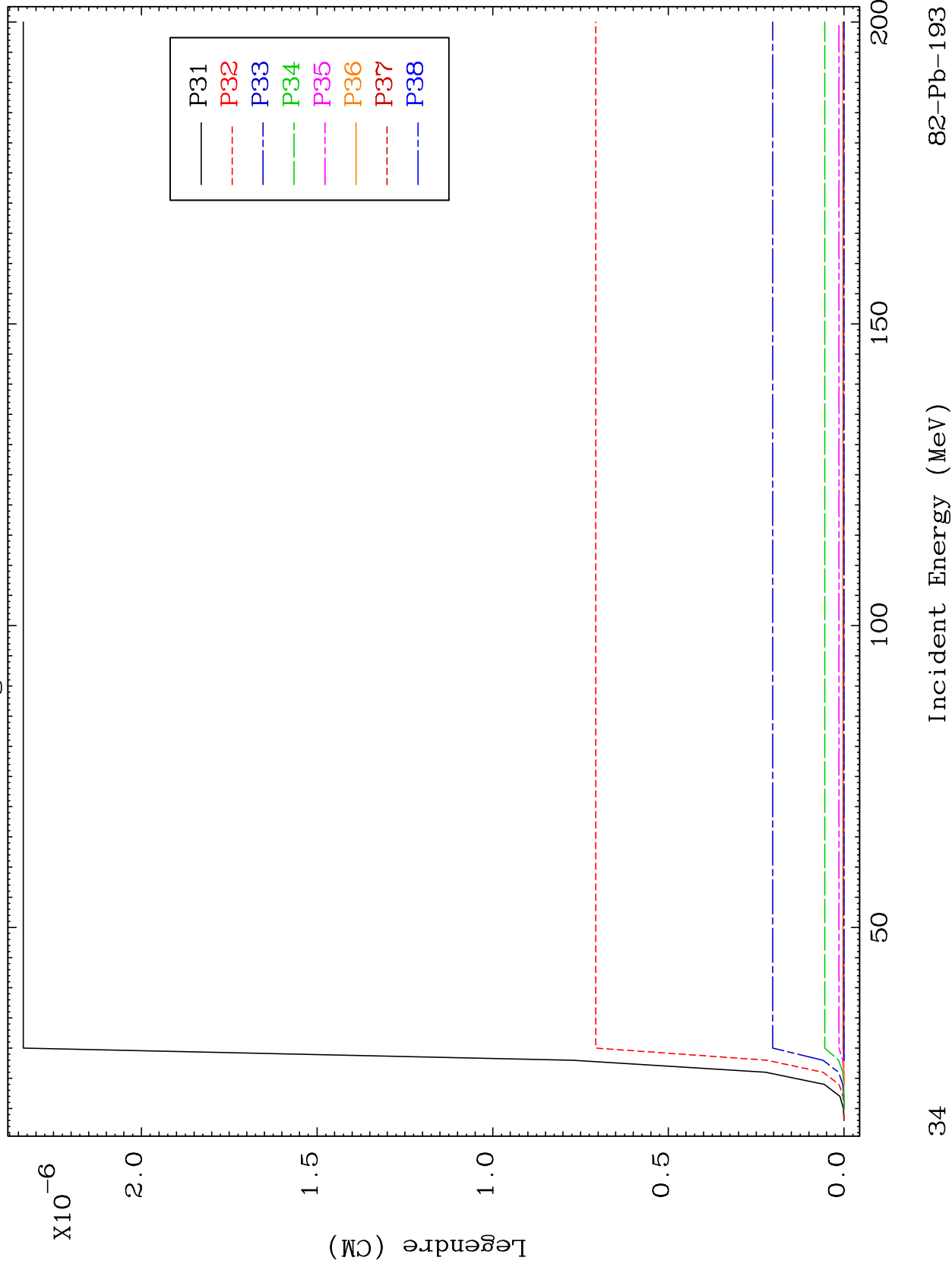
82-Pb-193



MAT 8192

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

82-Pb-193



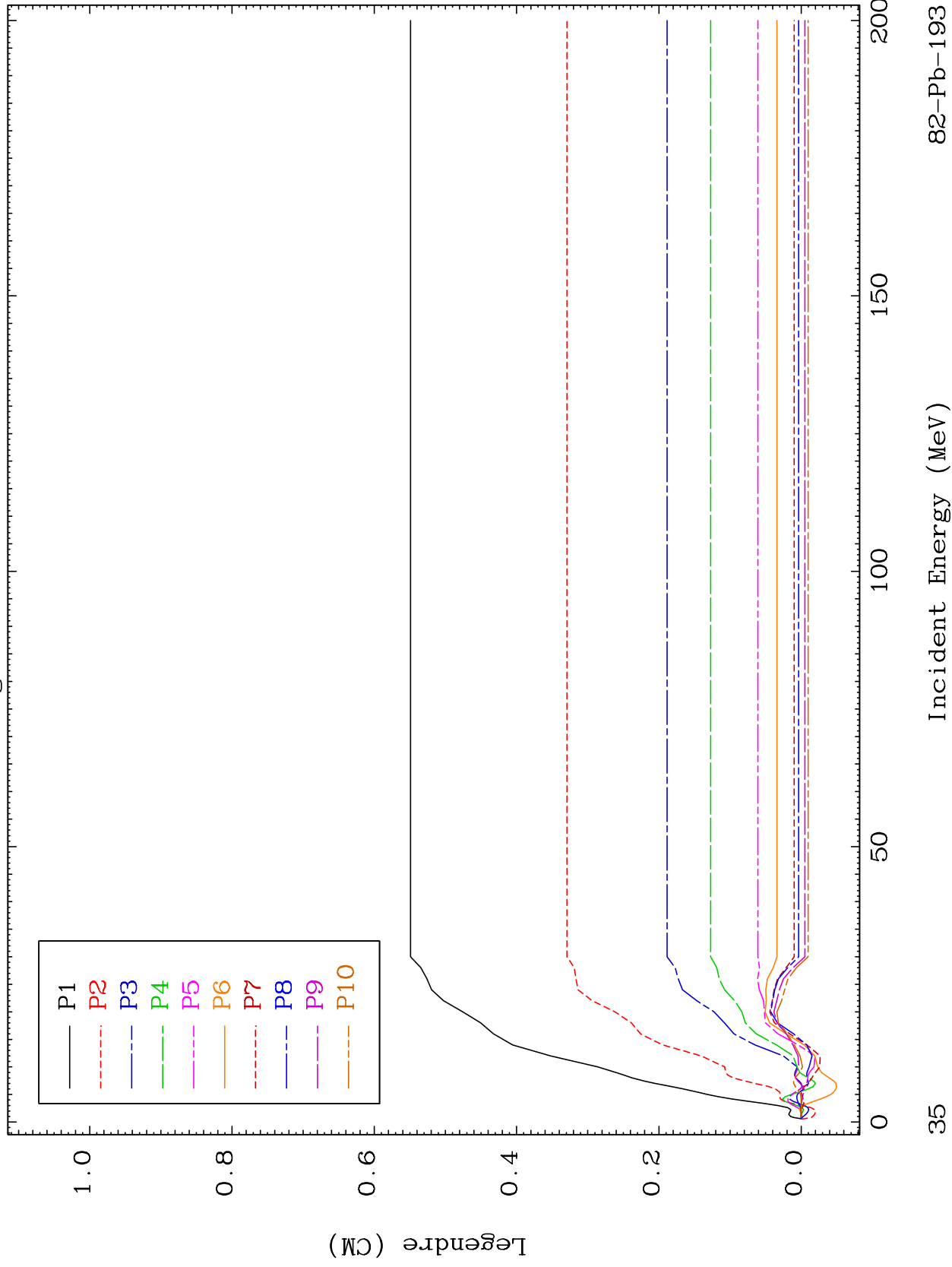
34

82-Pb-193

MAT 8192

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

82-Pb-193



82-Pb-193

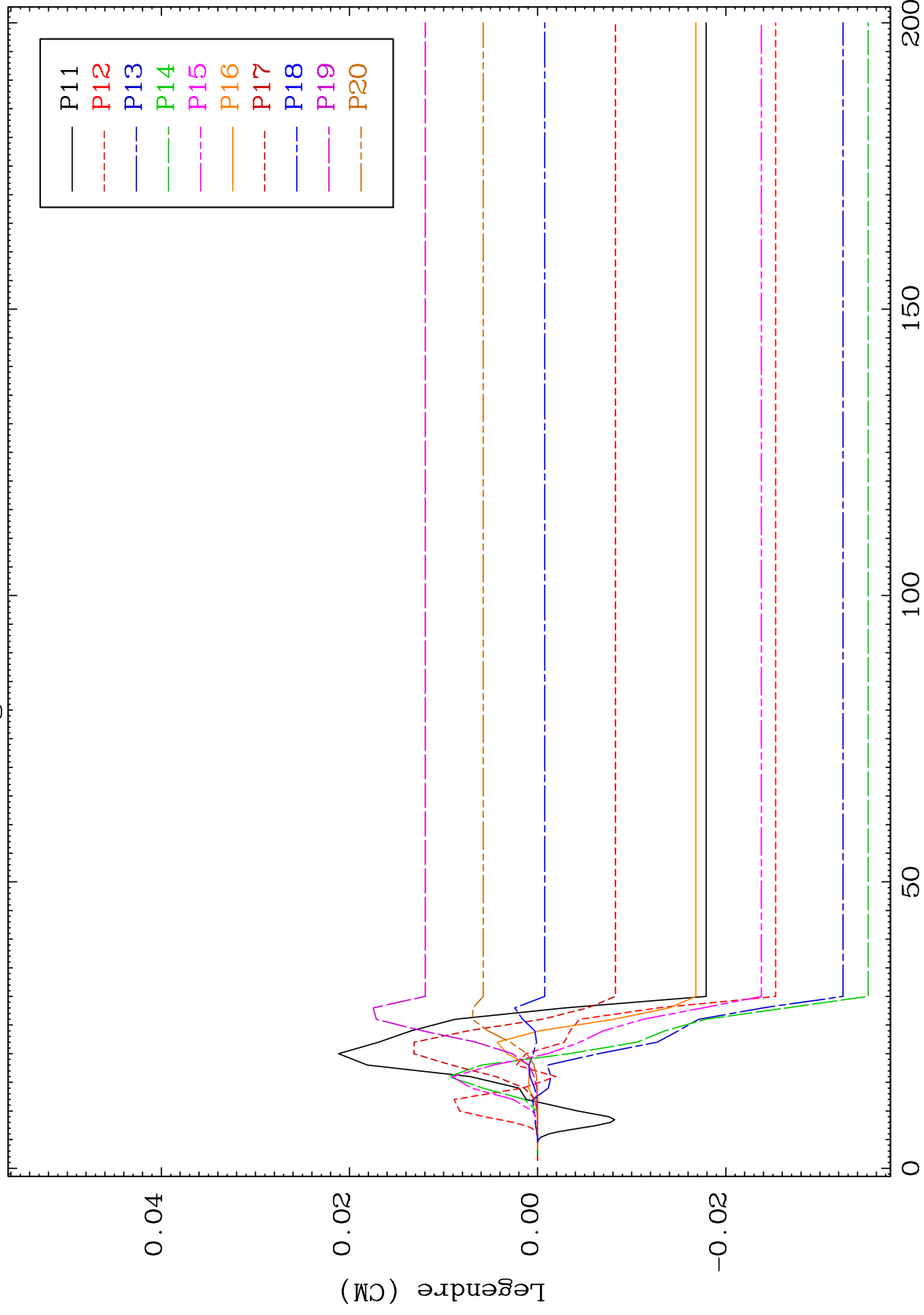
Incident Energy (MeV)

35

MAT 8192

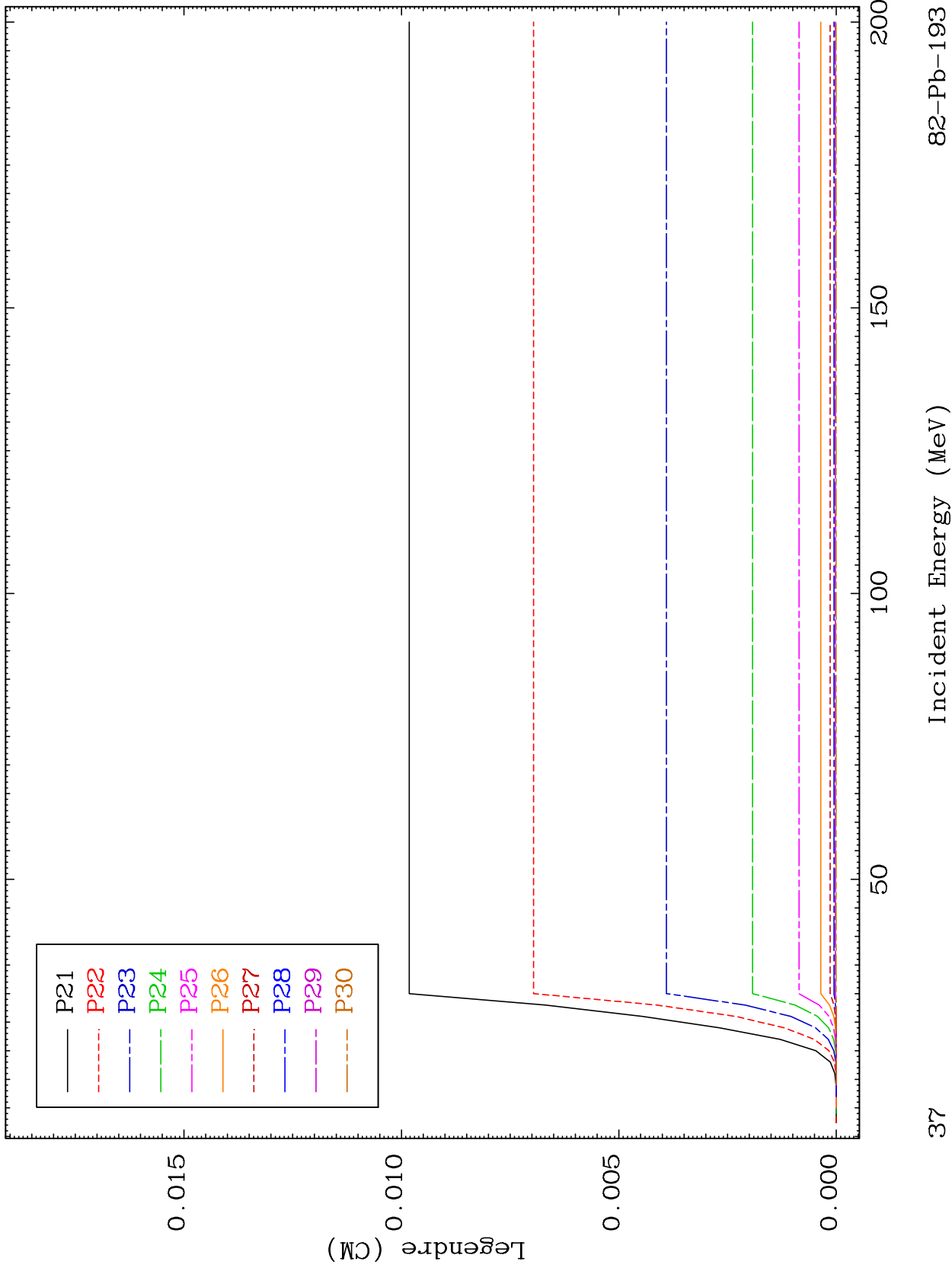
MT= 54 (n,n') Level  
Legendre Coefficients

82-Pb-193



36

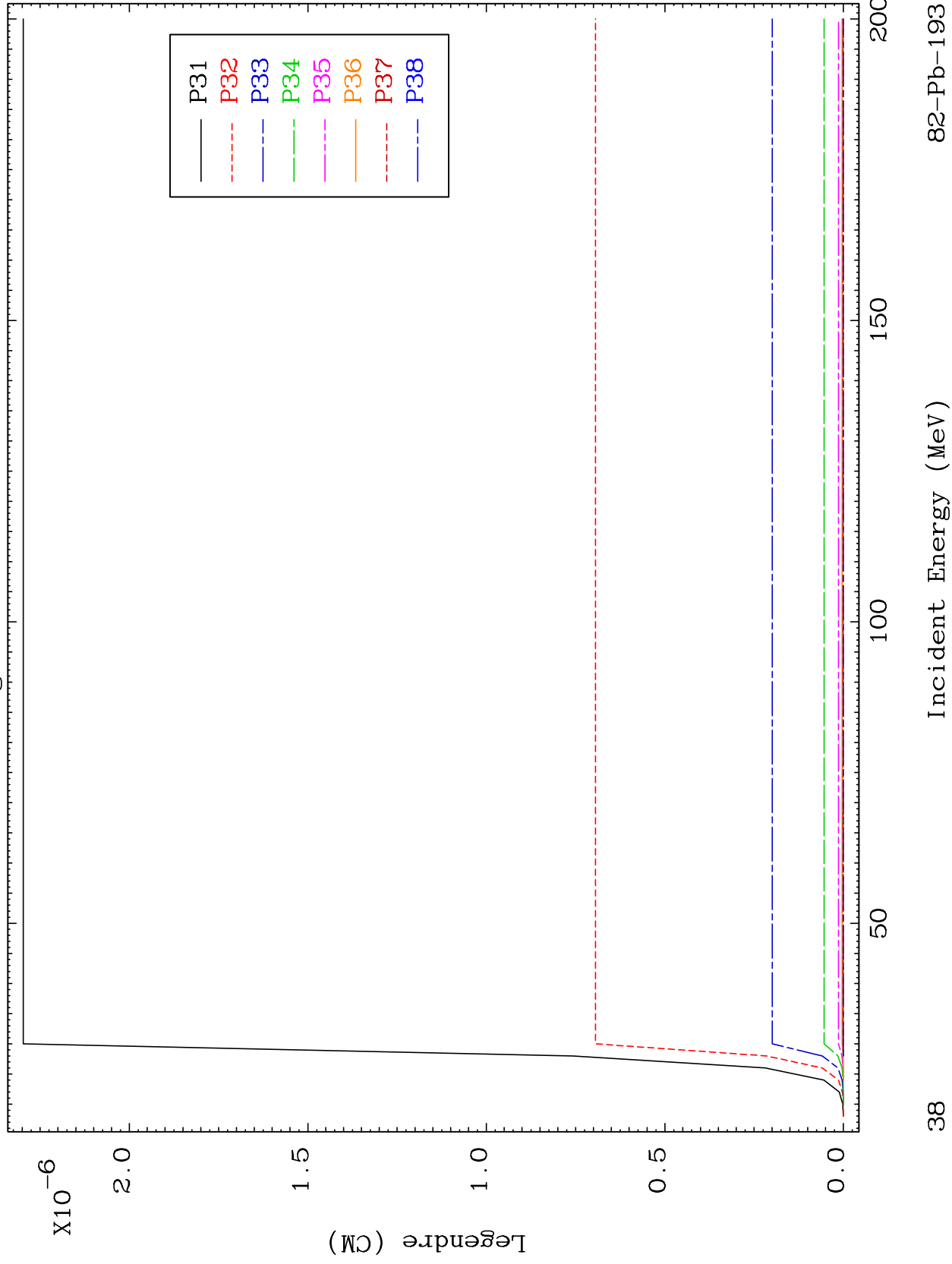
82-Pb-193



MAT 8192

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

82-Pb-193

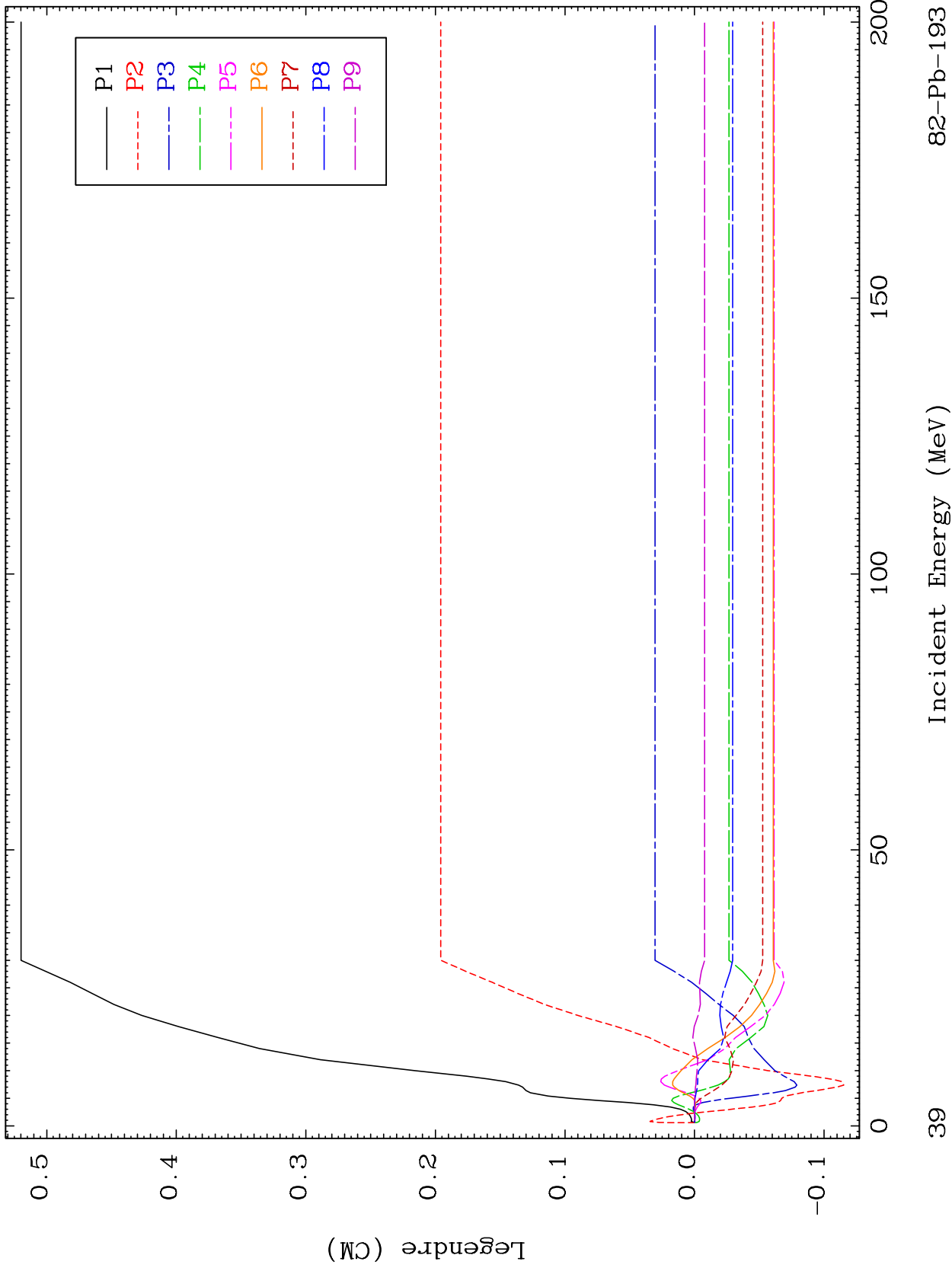


38

MAT 8192

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

82-Pb-193



82-Pb-193

Incident Energy (MeV)

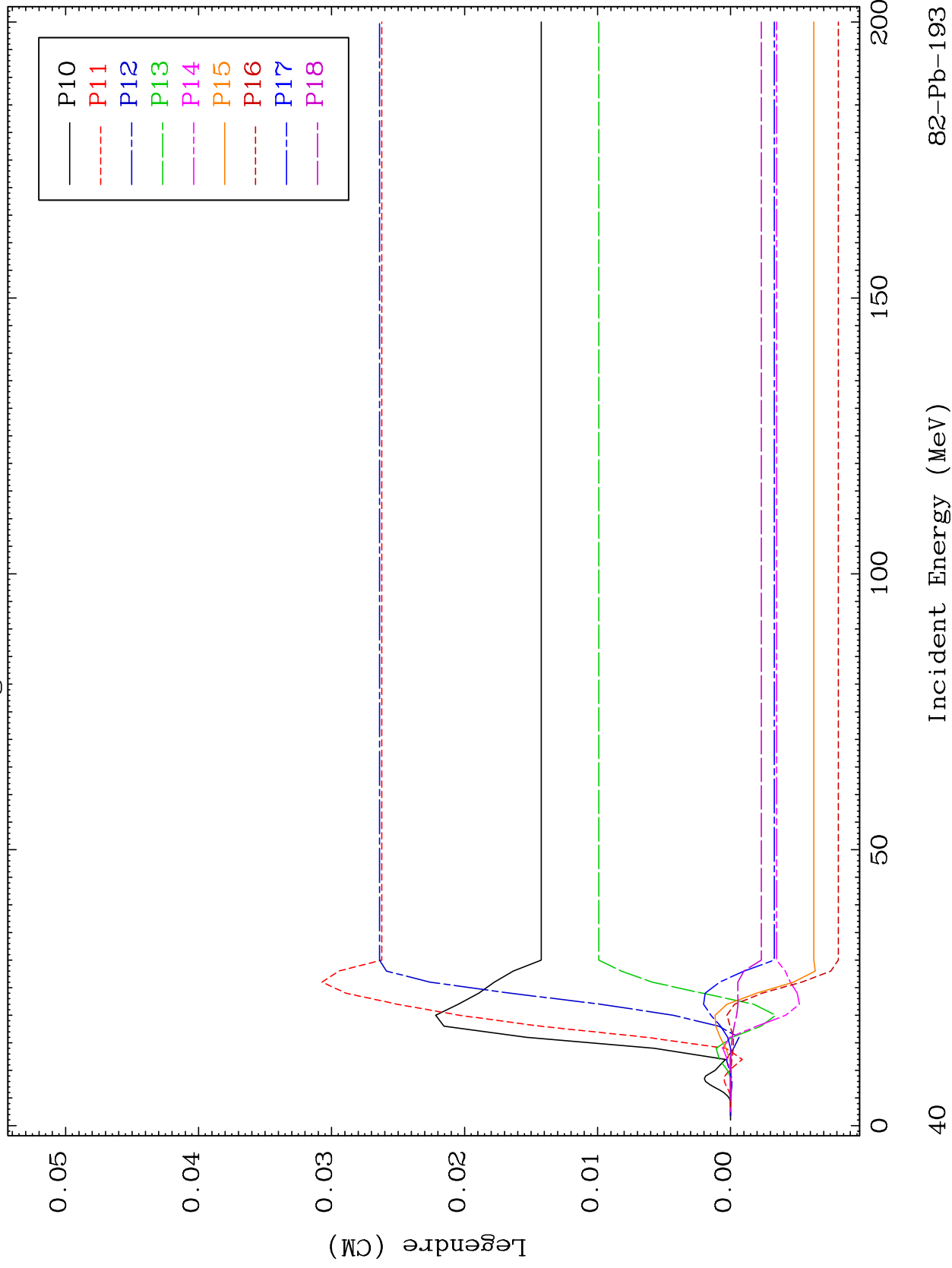
39



MAT 8192

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

82-Pb-193



82-Pb-193

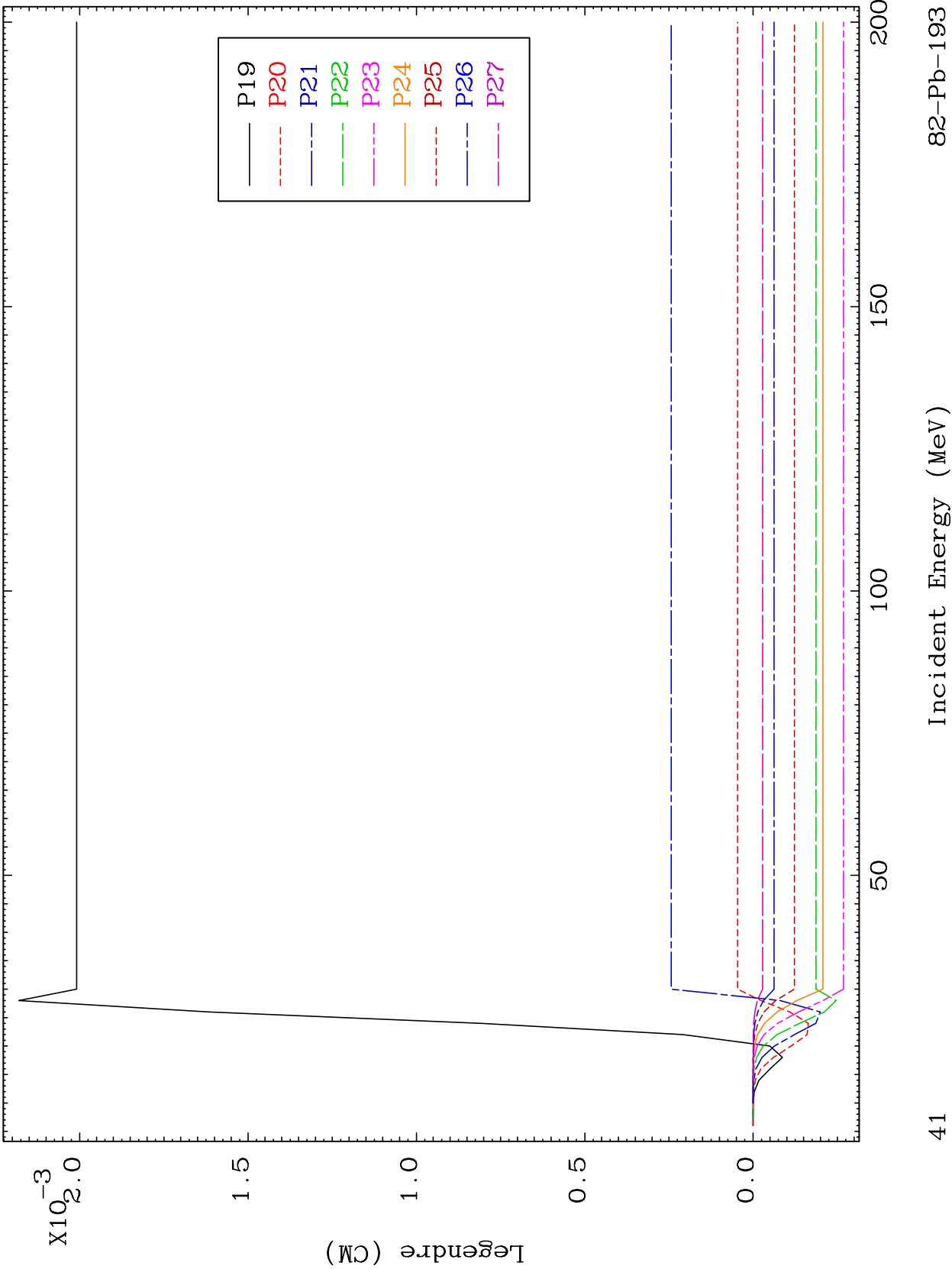
Incident Energy (MeV)

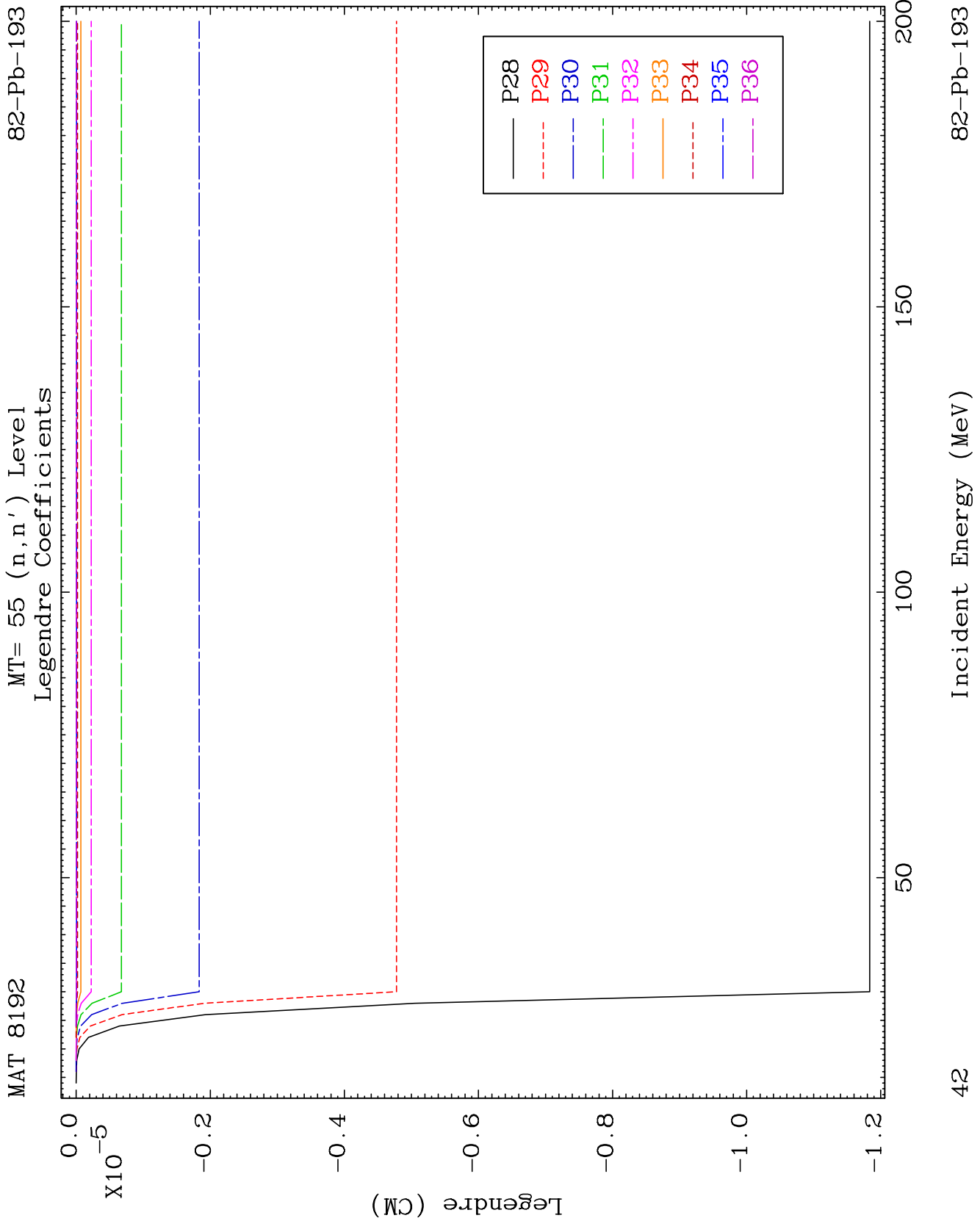
40

MAT 8192

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

82-Pb-193

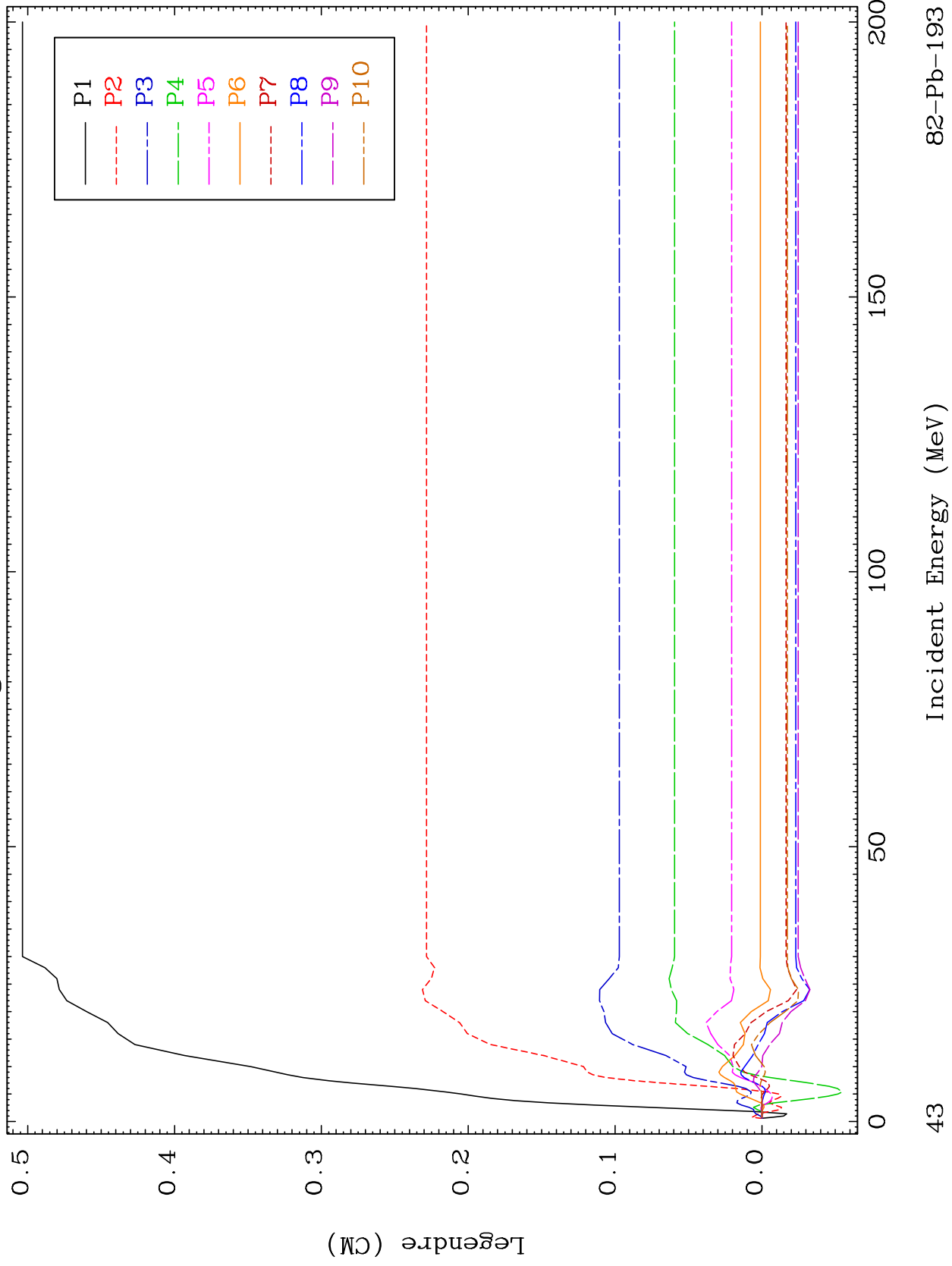




MAT 8192

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

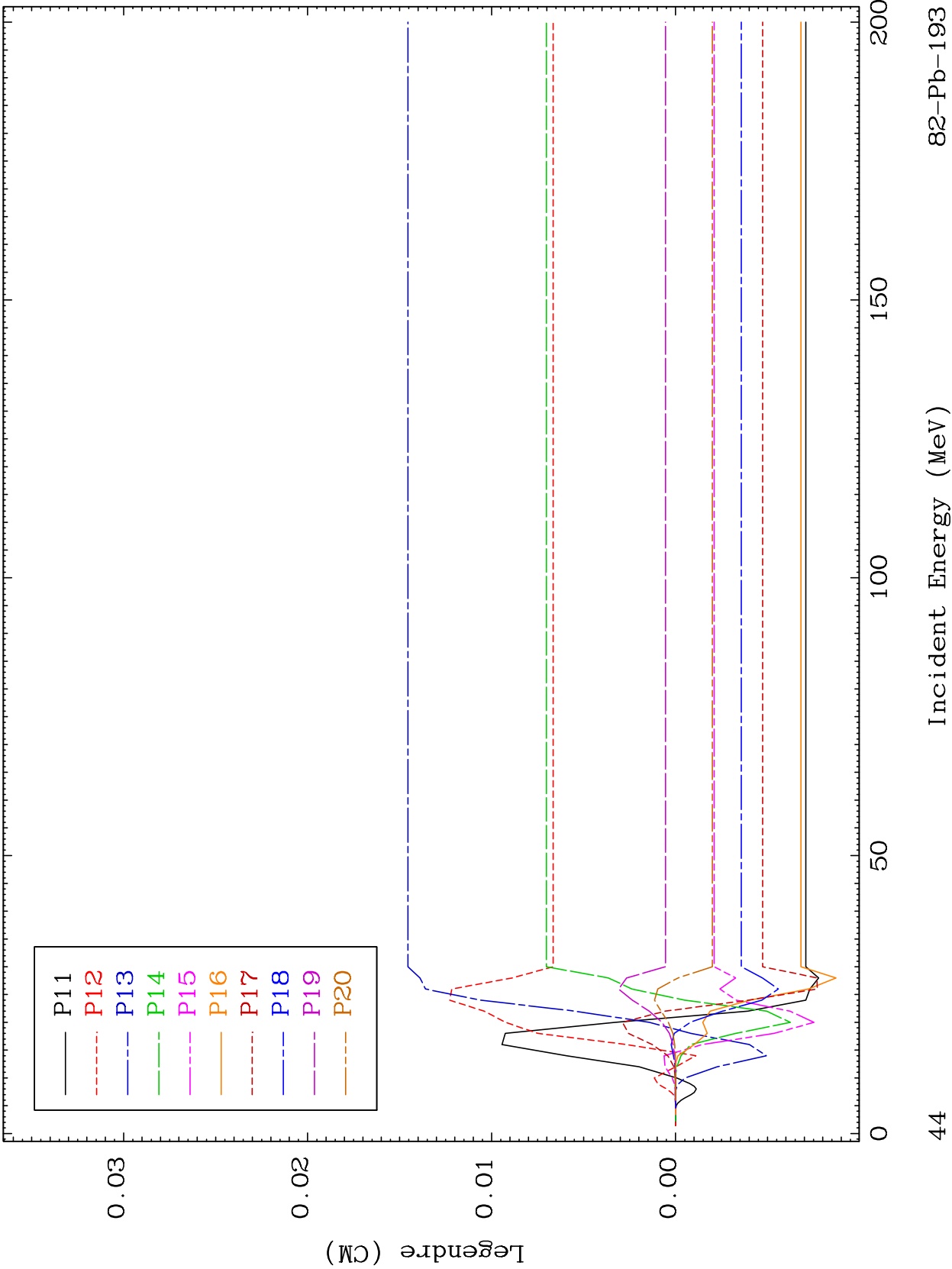
82-Pb-193



MAT 8192

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

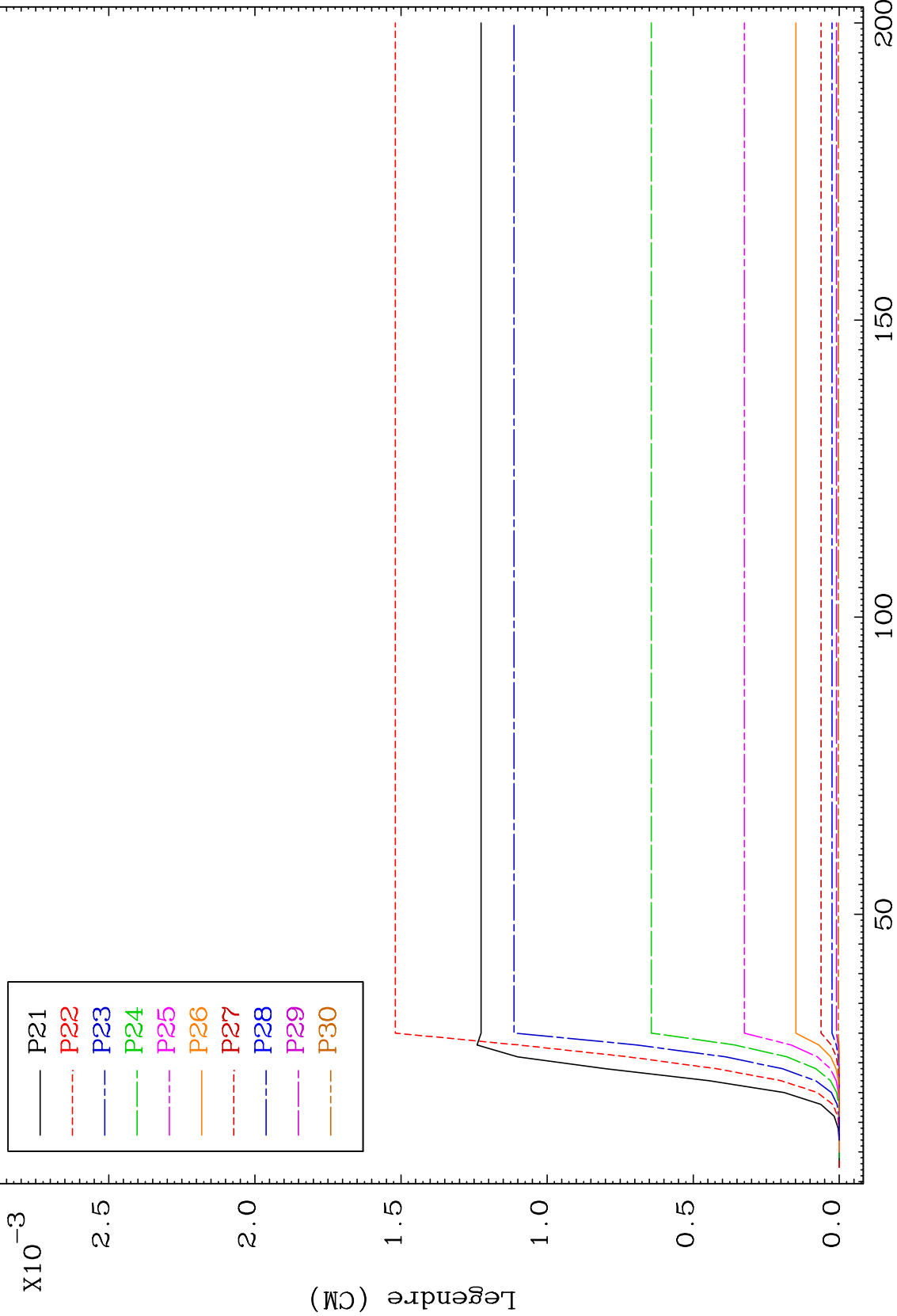
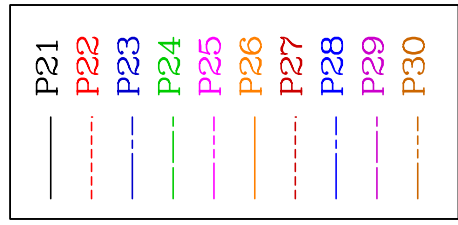
82-Pb-193



MAT 8192

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

82-Pb-193



45

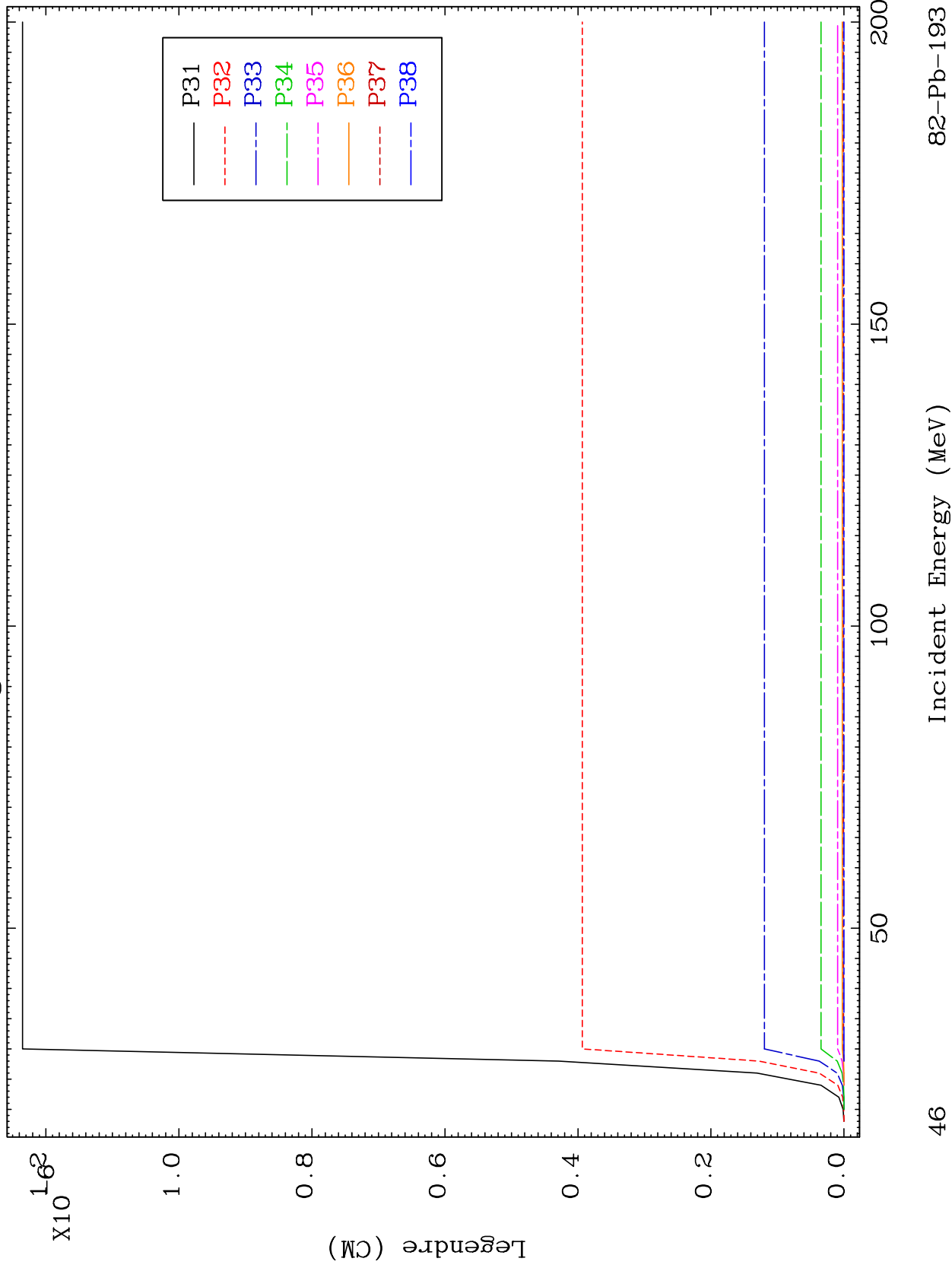
Incident Energy (MeV)

82-Pb-193

MAT 8192

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

82-Pb-193



46

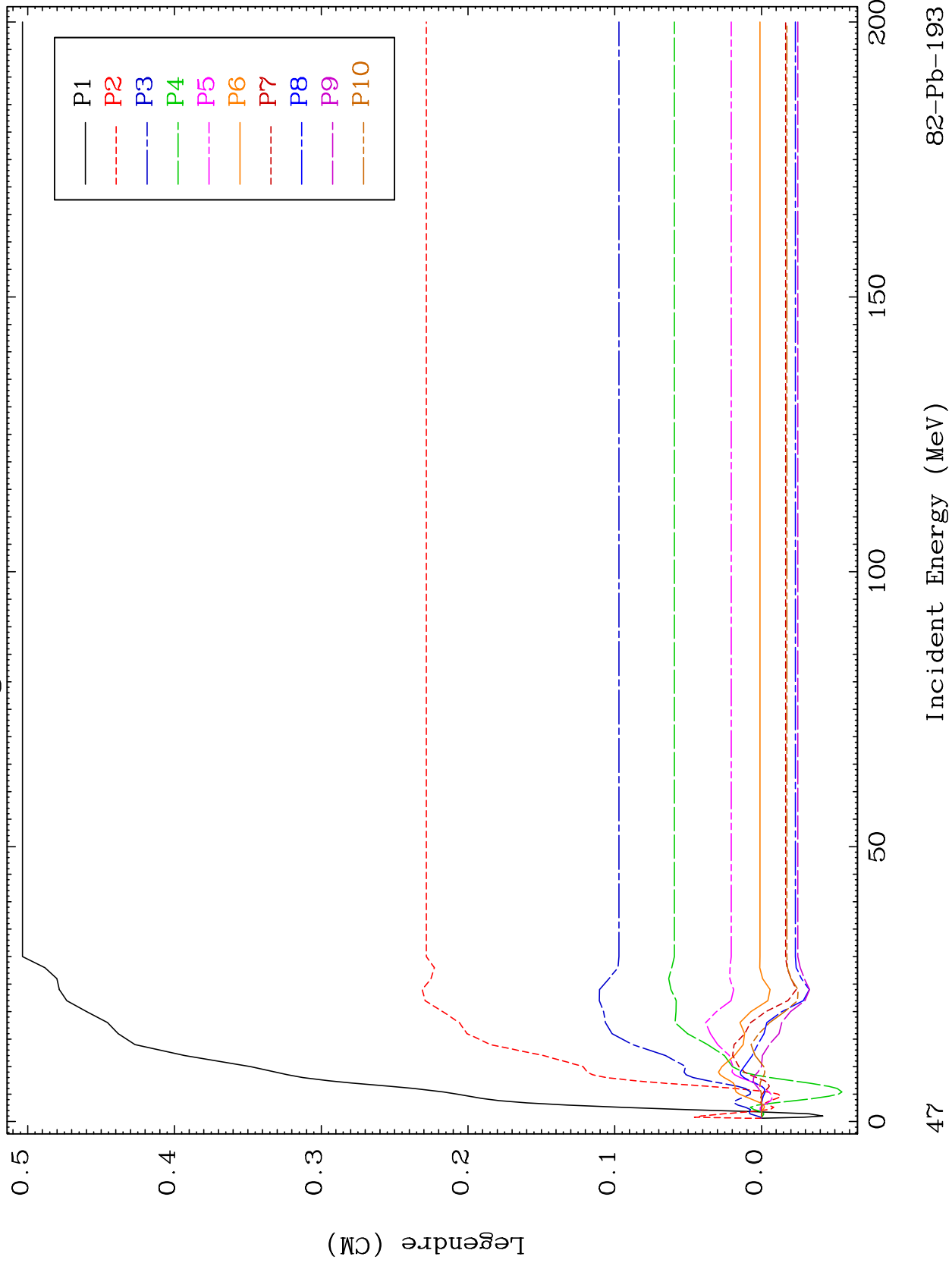
Incident Energy (MeV)

82-Pb-193

MAT 8192

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

82-Pb-193



47

Incident Energy (MeV)

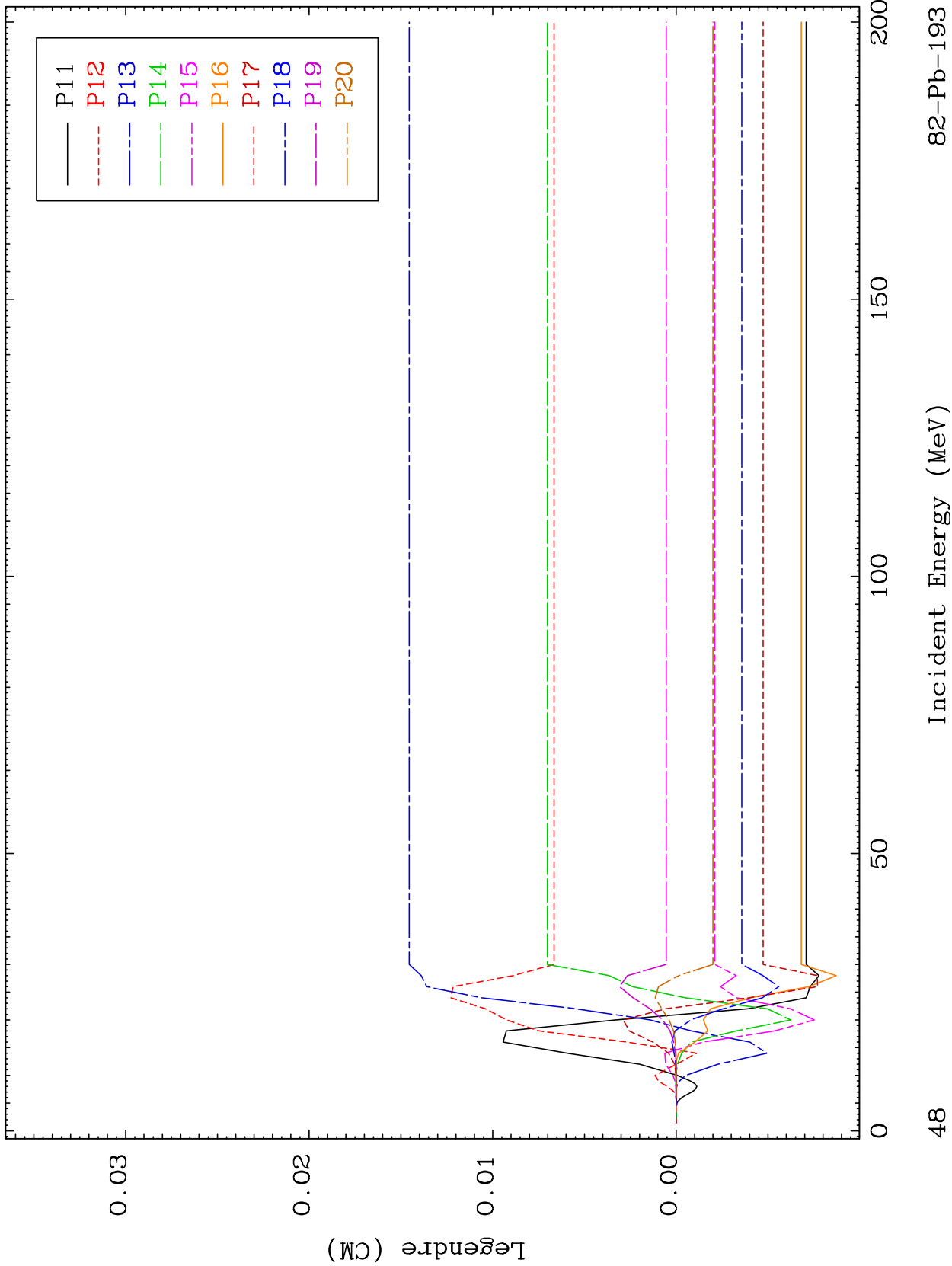
82-Pb-193



MAT 8192

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

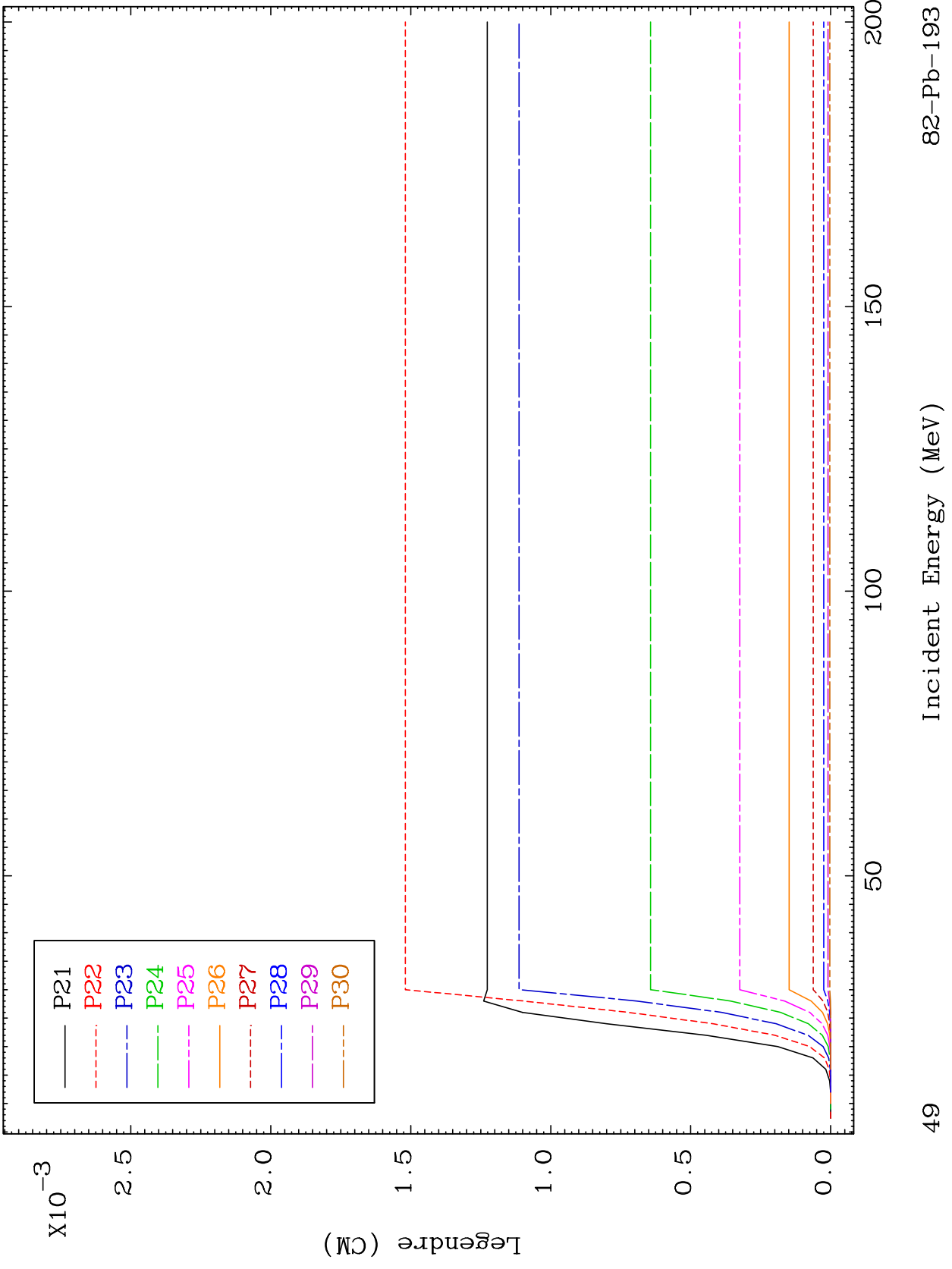
82-Pb-193



82-Pb-193

Incident Energy (MeV)

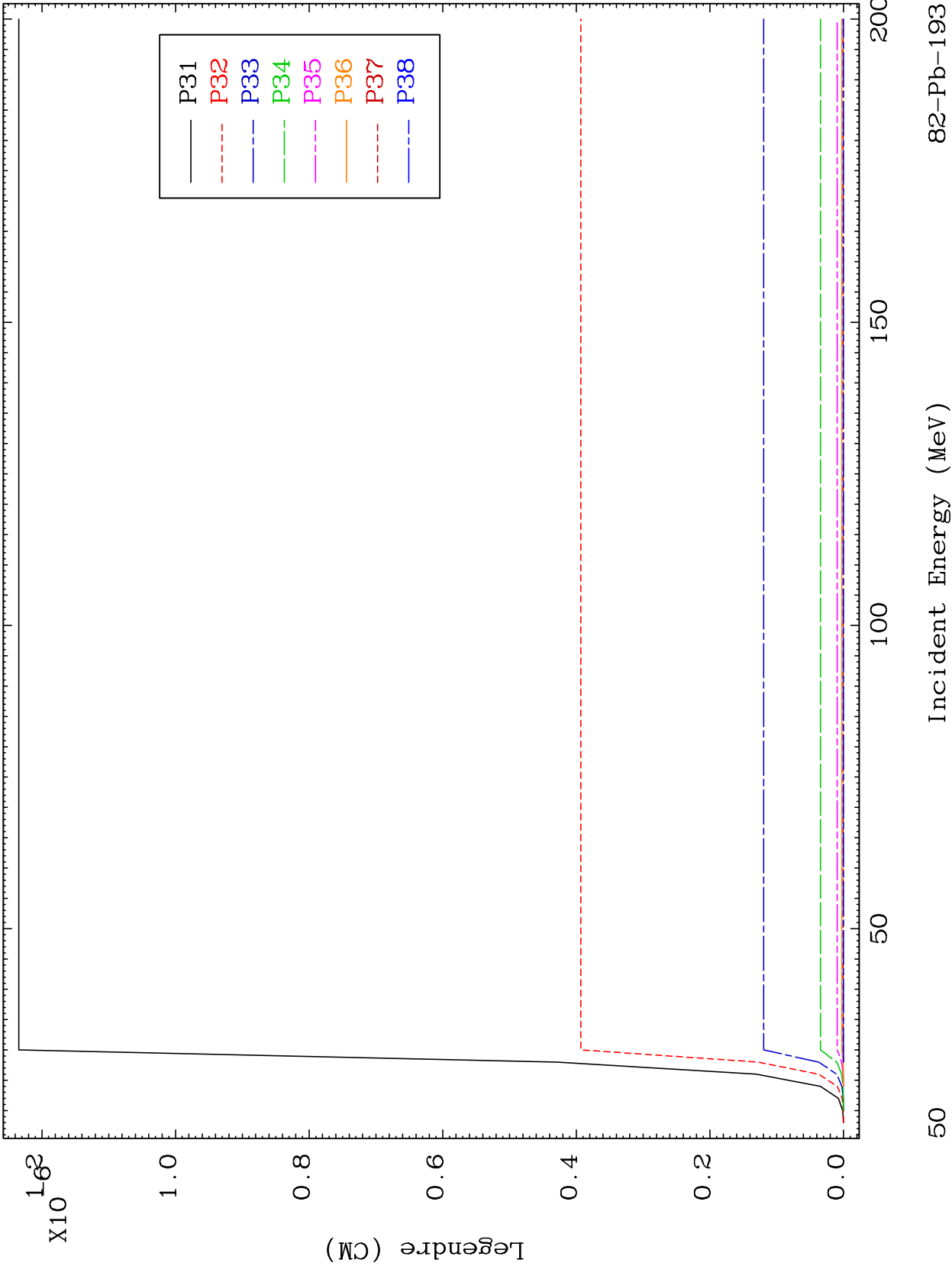
48



MAT 8192

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

82-Pb-193



82-Pb-193

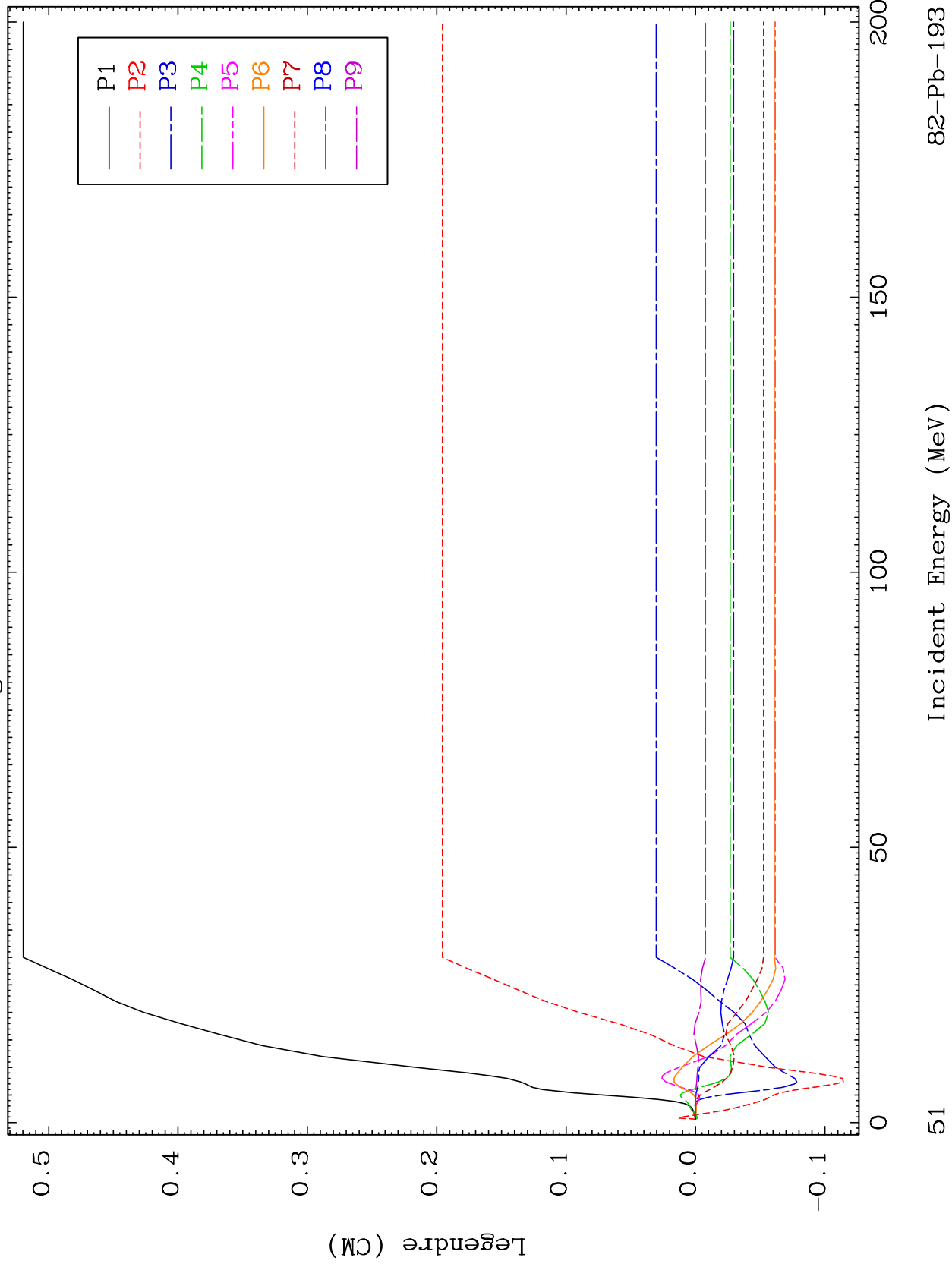
Incident Energy (MeV)

50

MAT 8192

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

82-Pb-193



82-Pb-193

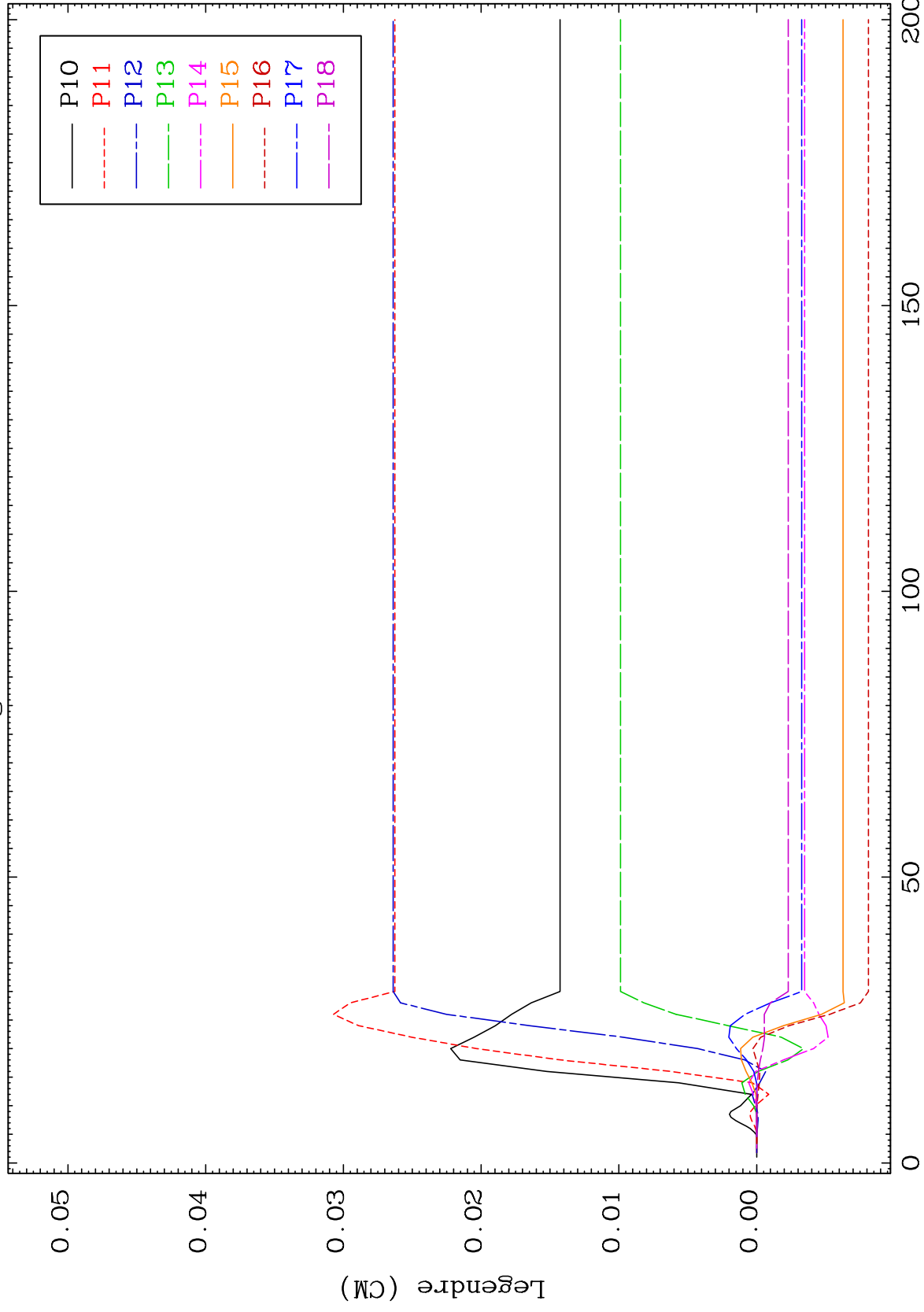
Incident Energy (MeV)

51

MAT 8192

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

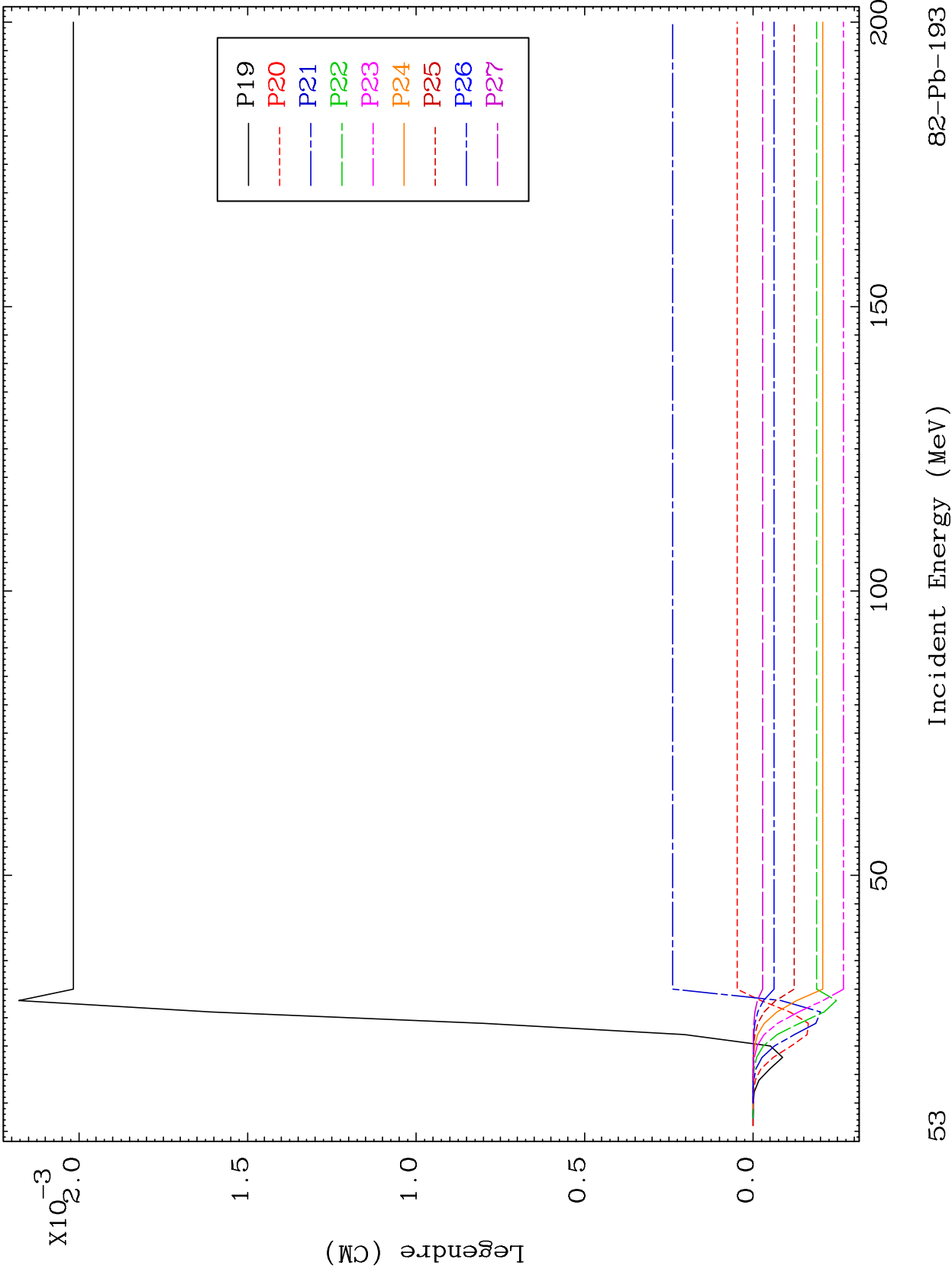
82-Pb-193



52

Incident Energy (MeV)

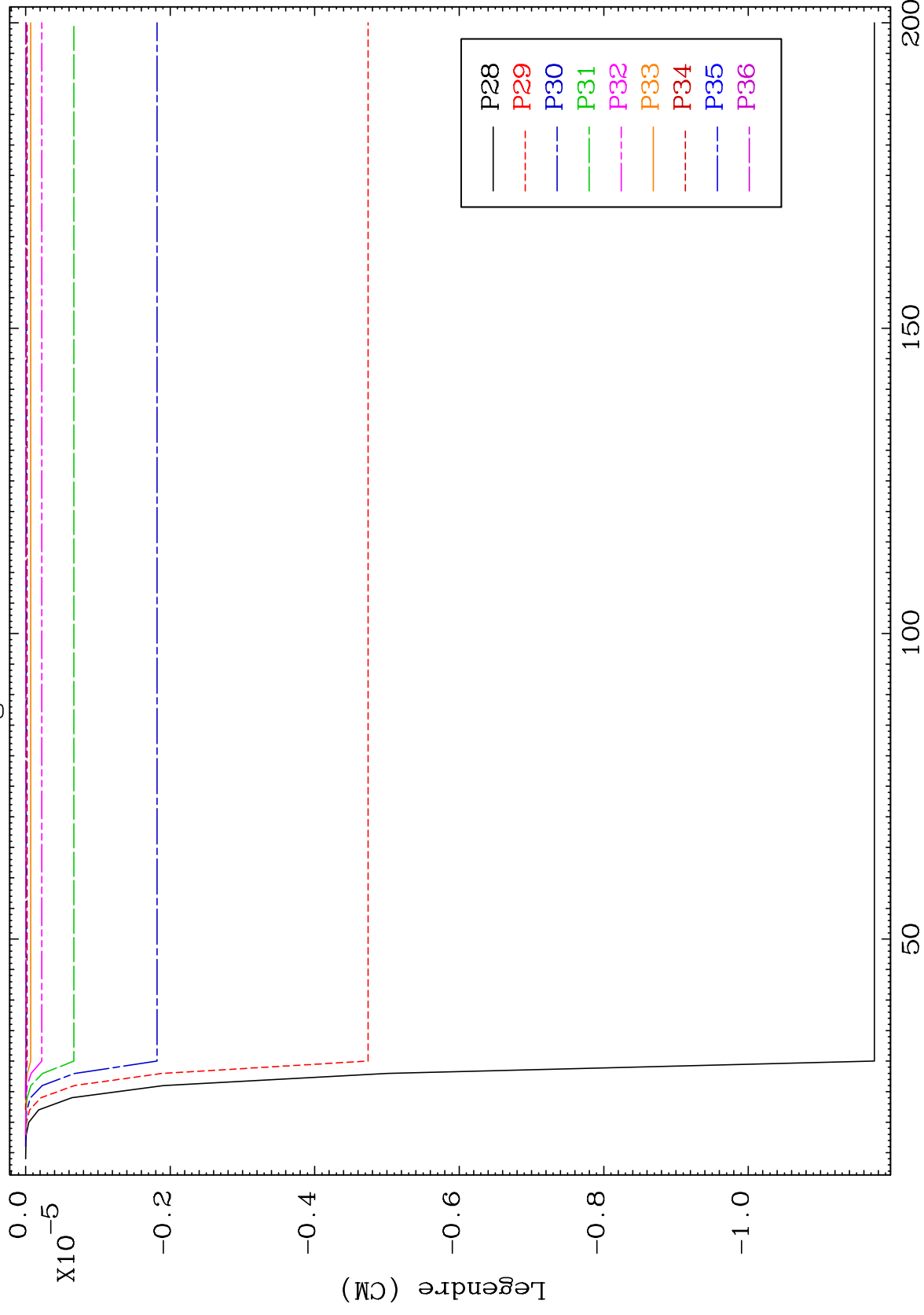
82-Pb-193



MAT 8192

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

82-Pb-193



54

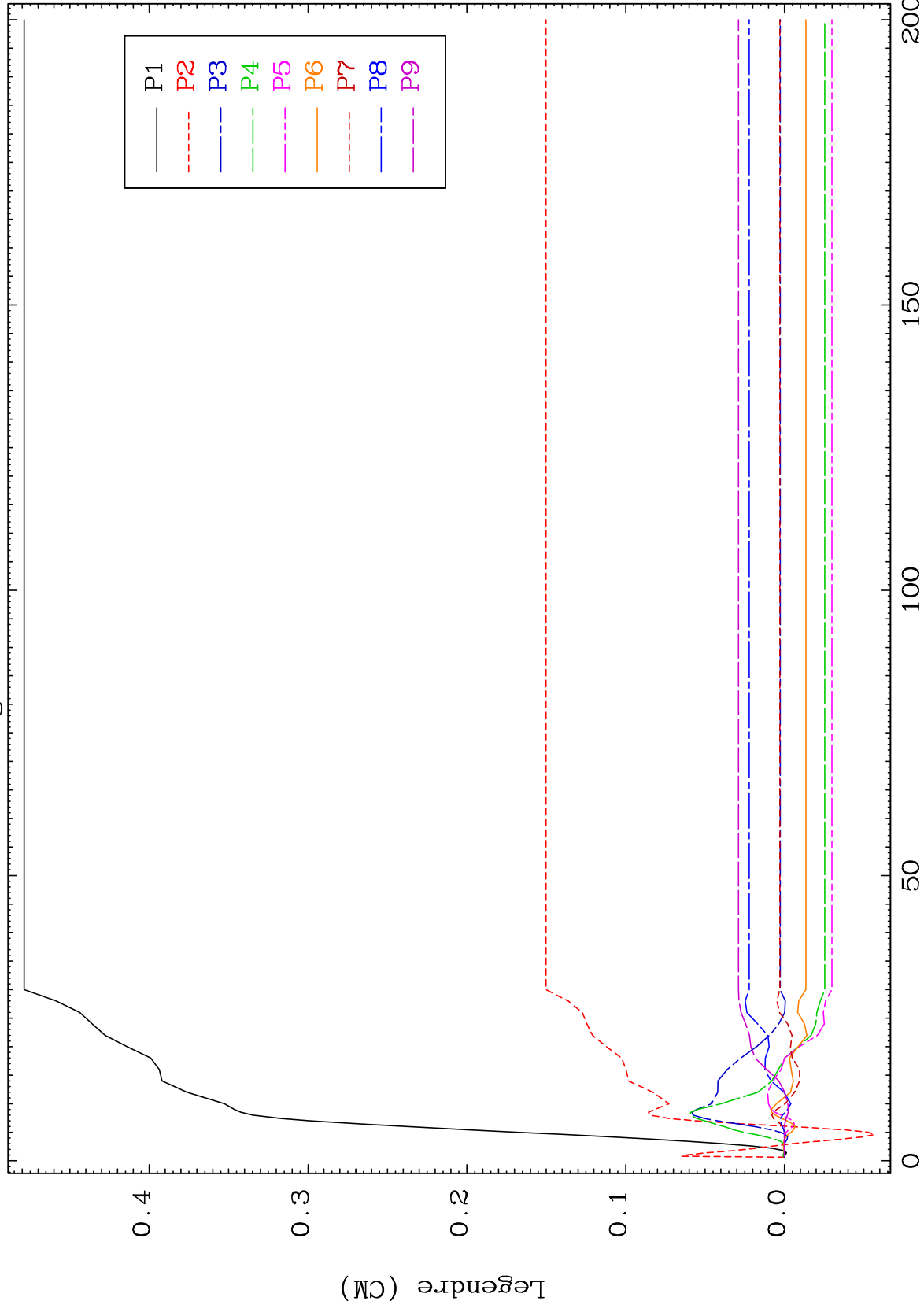
Incident Energy (MeV)

82-Pb-193

MAT 8192

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

82-Pb-193



82-Pb-193

Incident Energy (MeV)

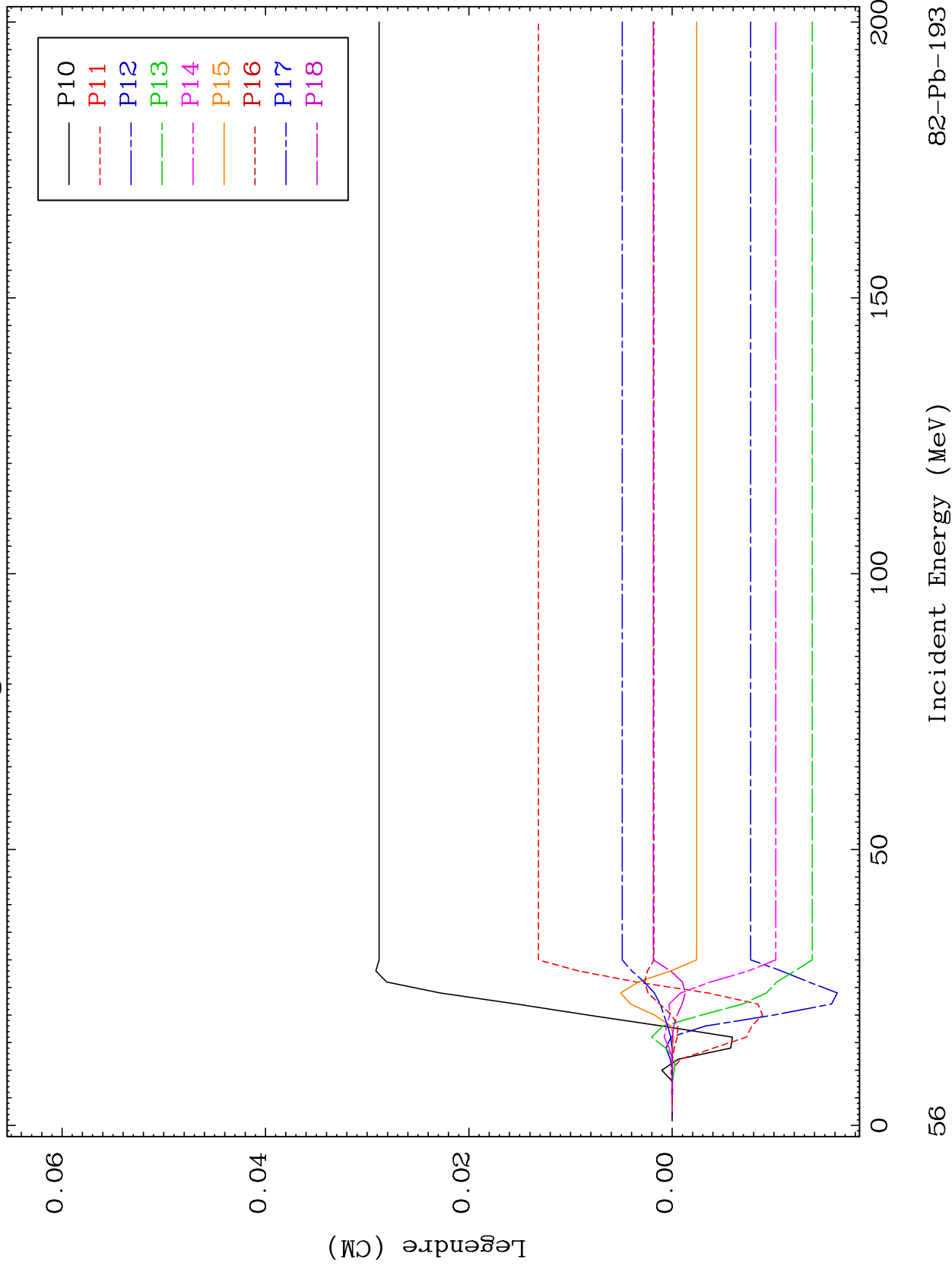
55



MAT 8192

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

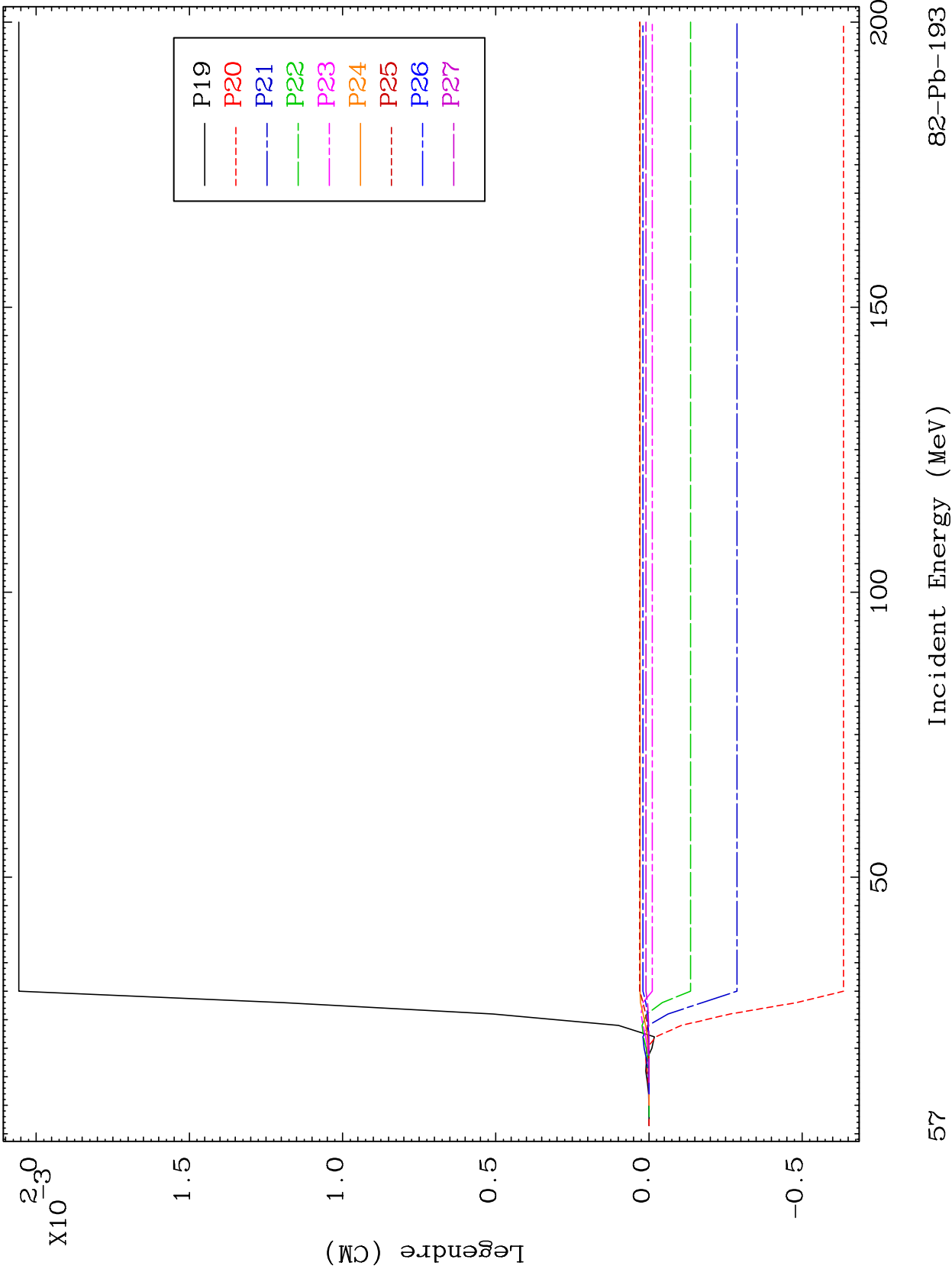
82-Pb-193



MAT 8192

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

82-Pb-193



57

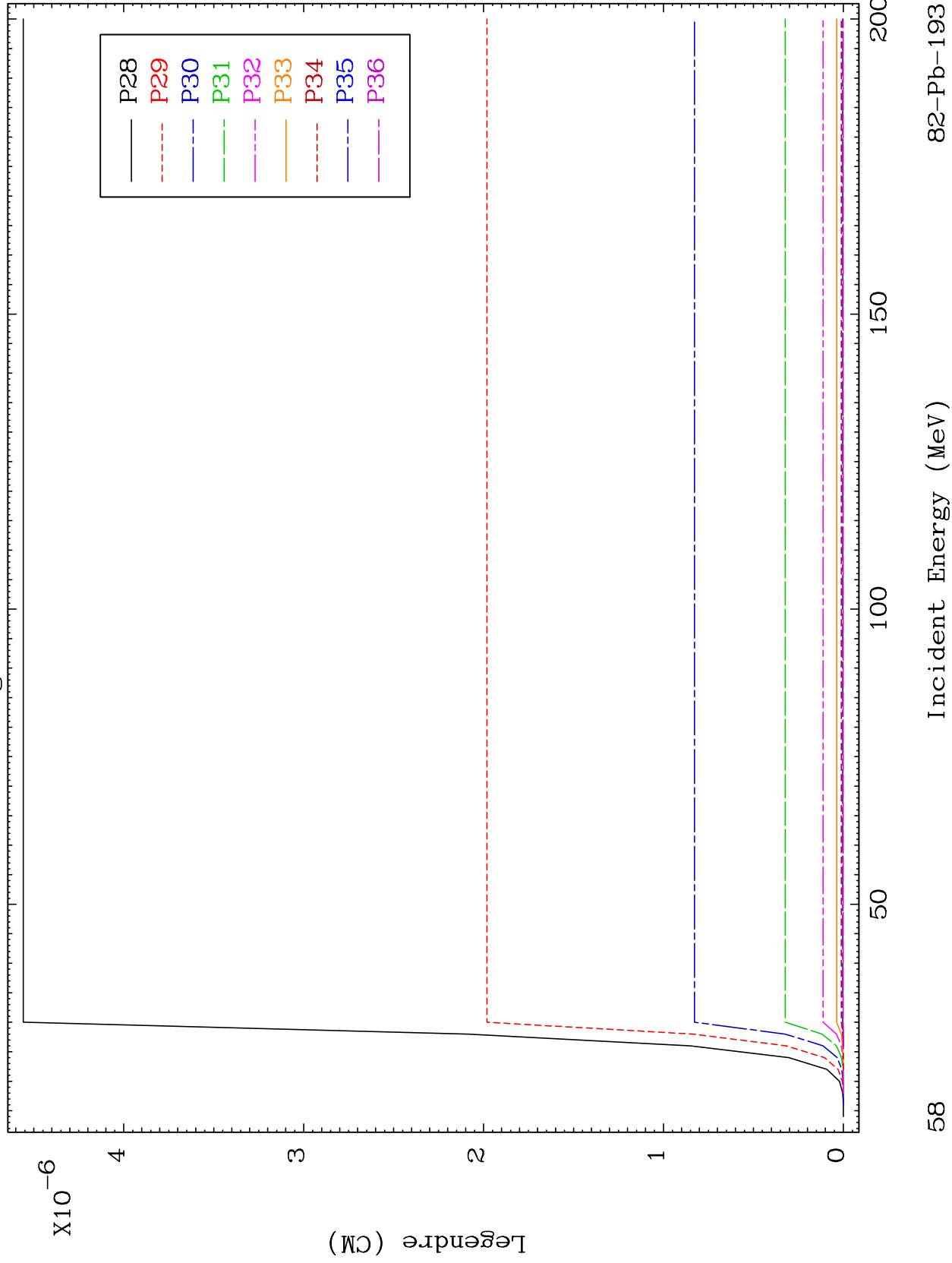
Incident Energy (MeV)

82-Pb-193

MAT 8192

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

82-Pb-193



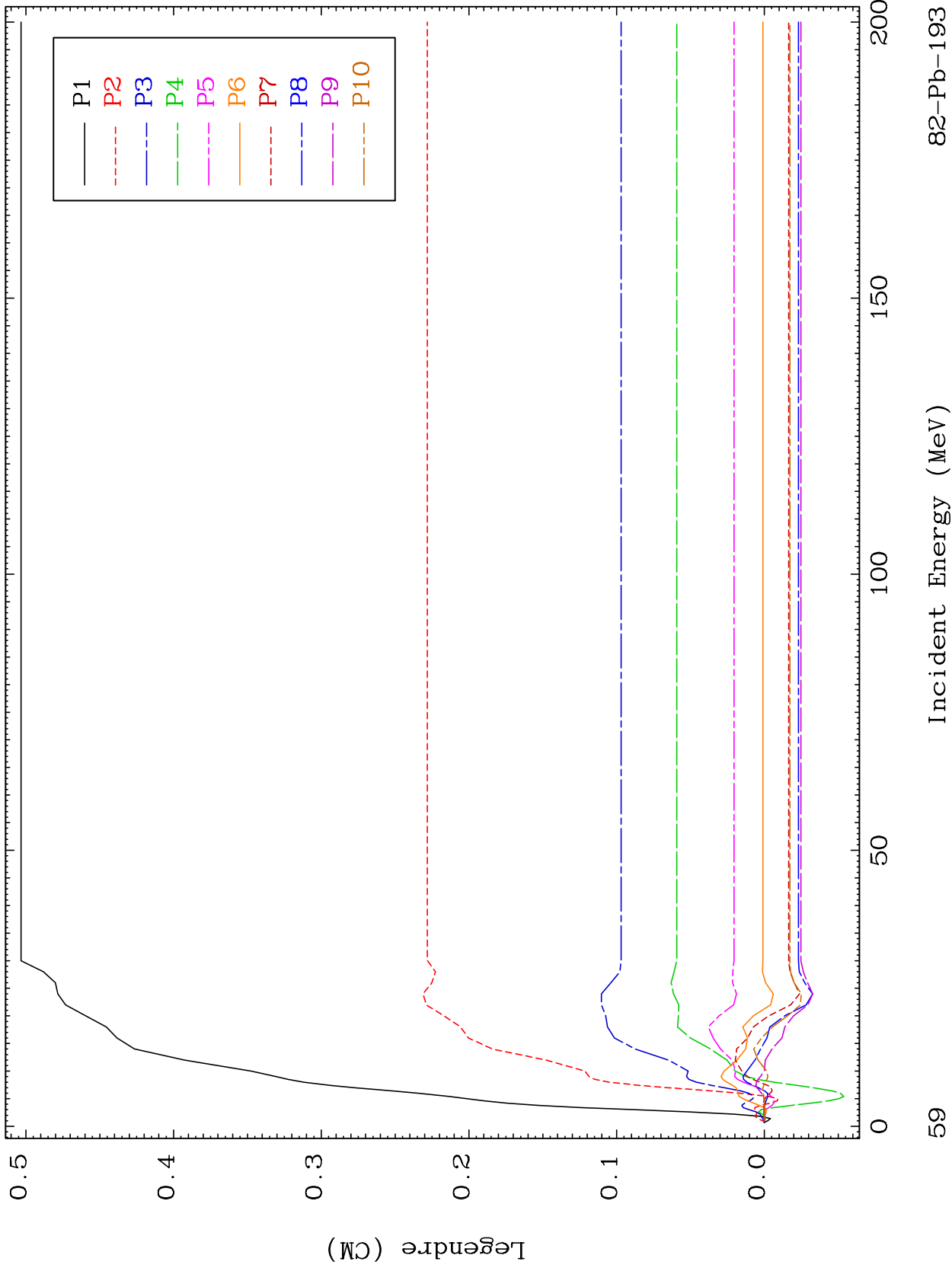
58

82-Pb-193

MAT 8192

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

82-Pb-193



82-Pb-193

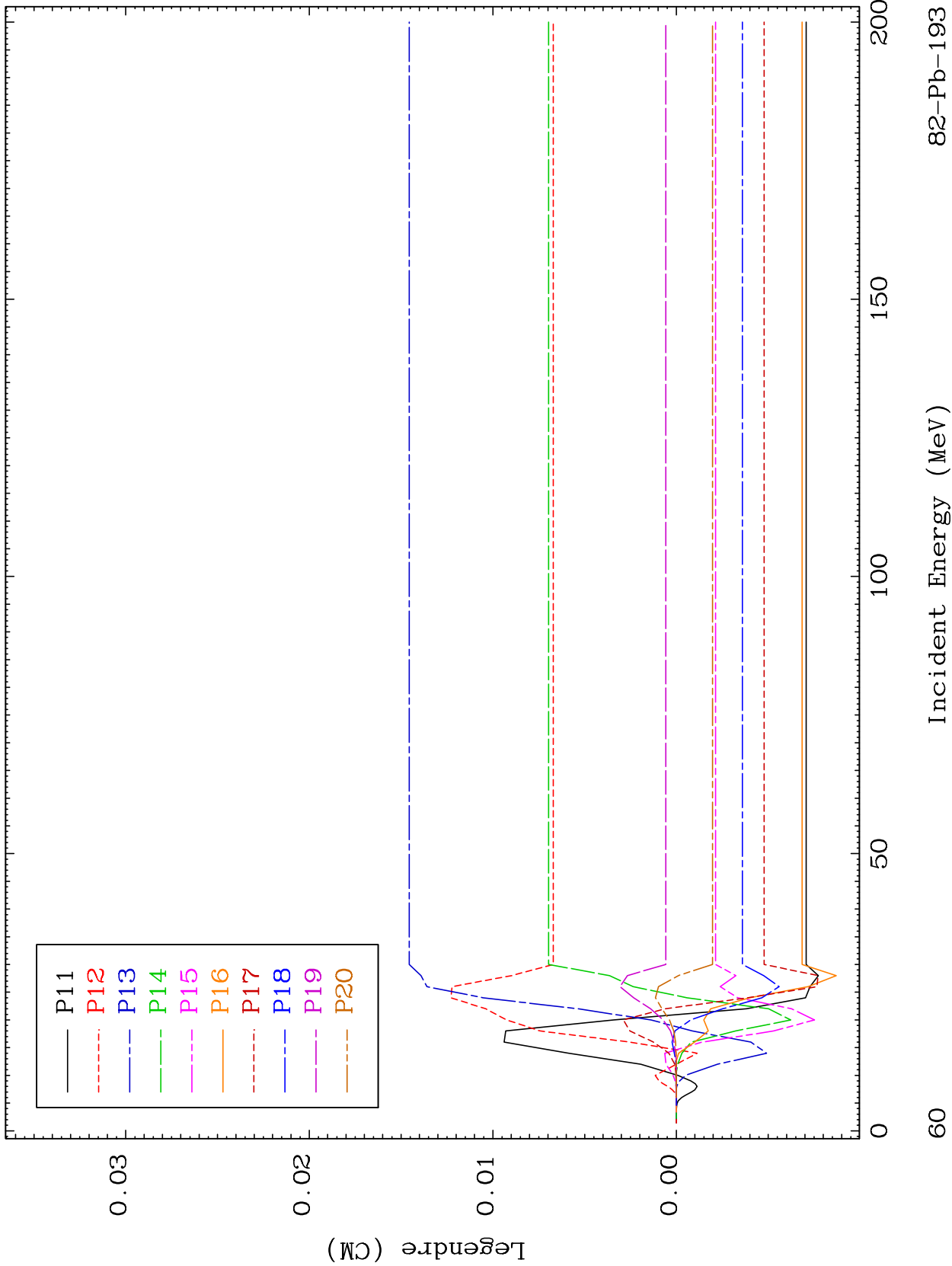
Incident Energy (MeV)

59

MAT 8192

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

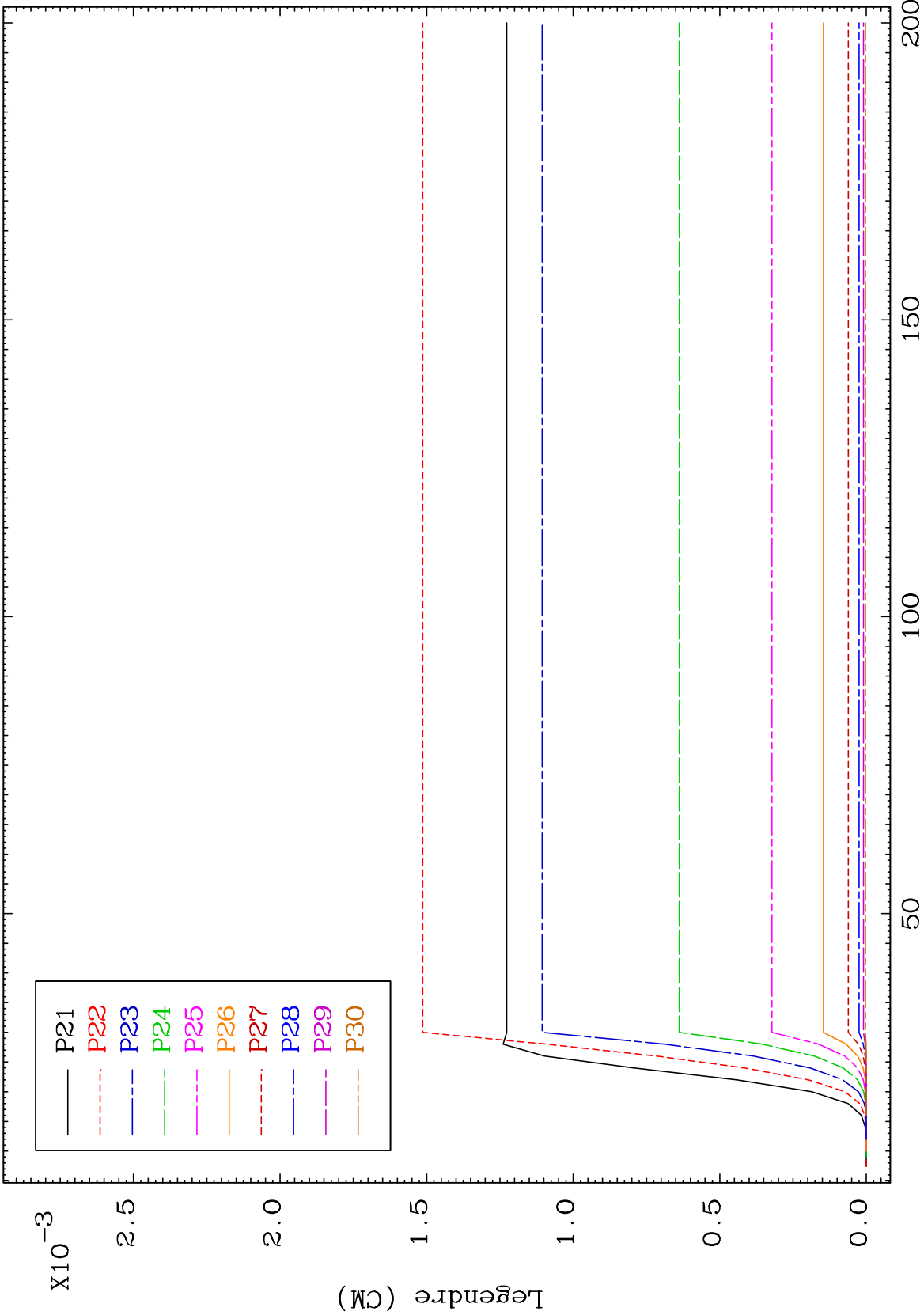
82-Pb-193



82-Pb-193

Incident Energy (MeV)

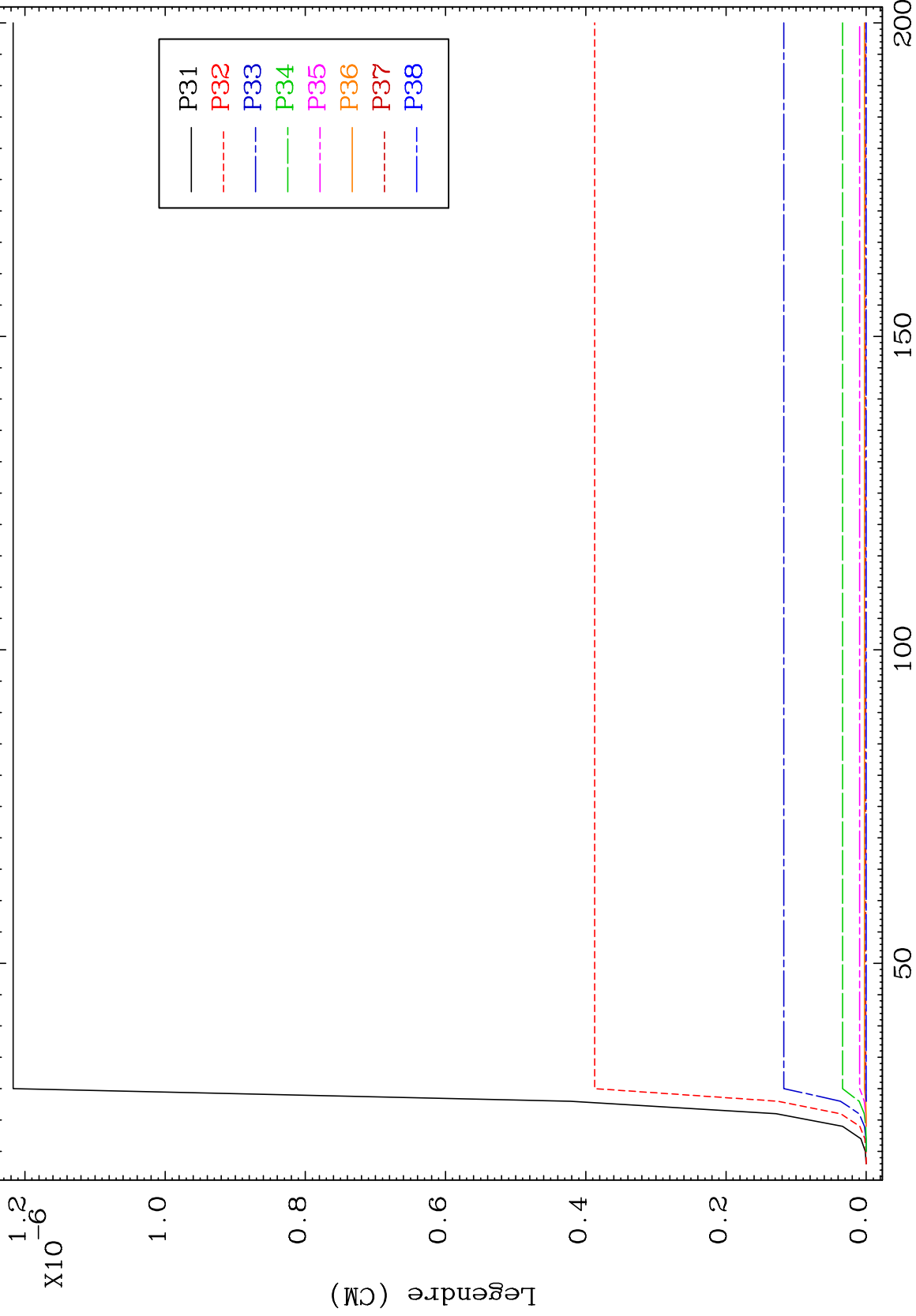
60



MAT 8192

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

82-Pb-193



62

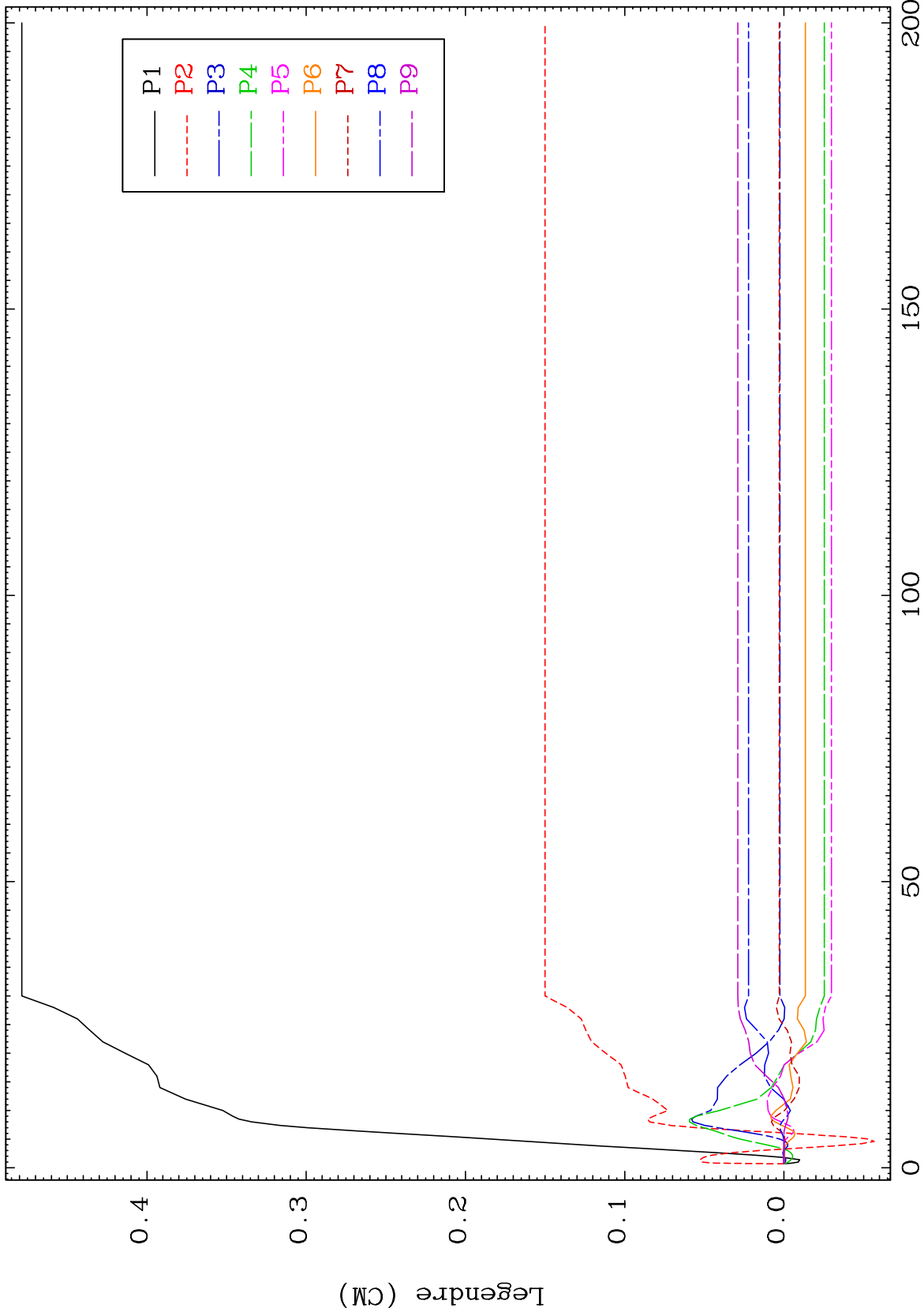
Incident Energy (MeV)

82-Pb-193

MAT 8192

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

82-Pb-193



63

Incident Energy (MeV)

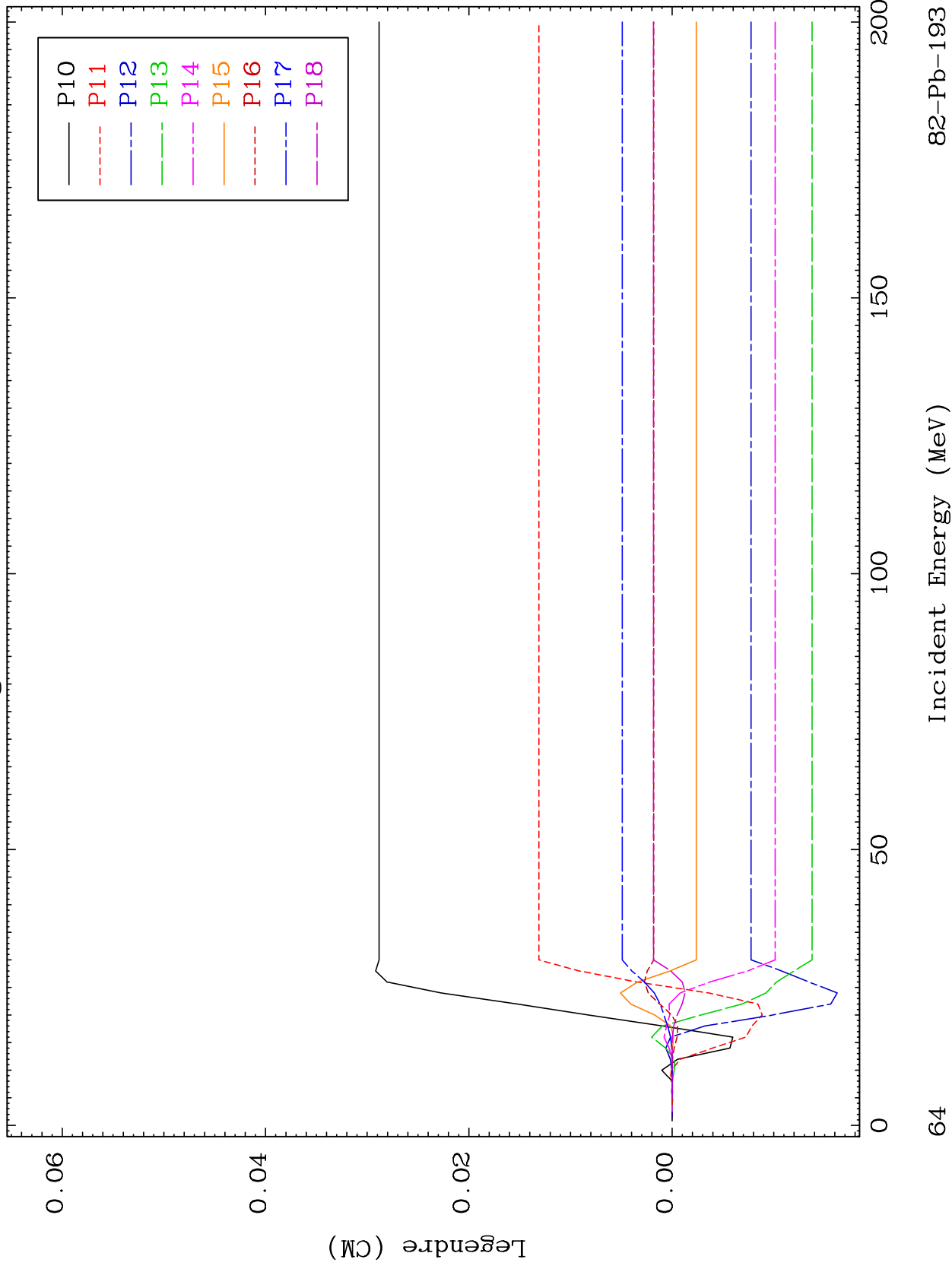
82-Pb-193



MAT 8192

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

82-Pb-193



82-Pb-193

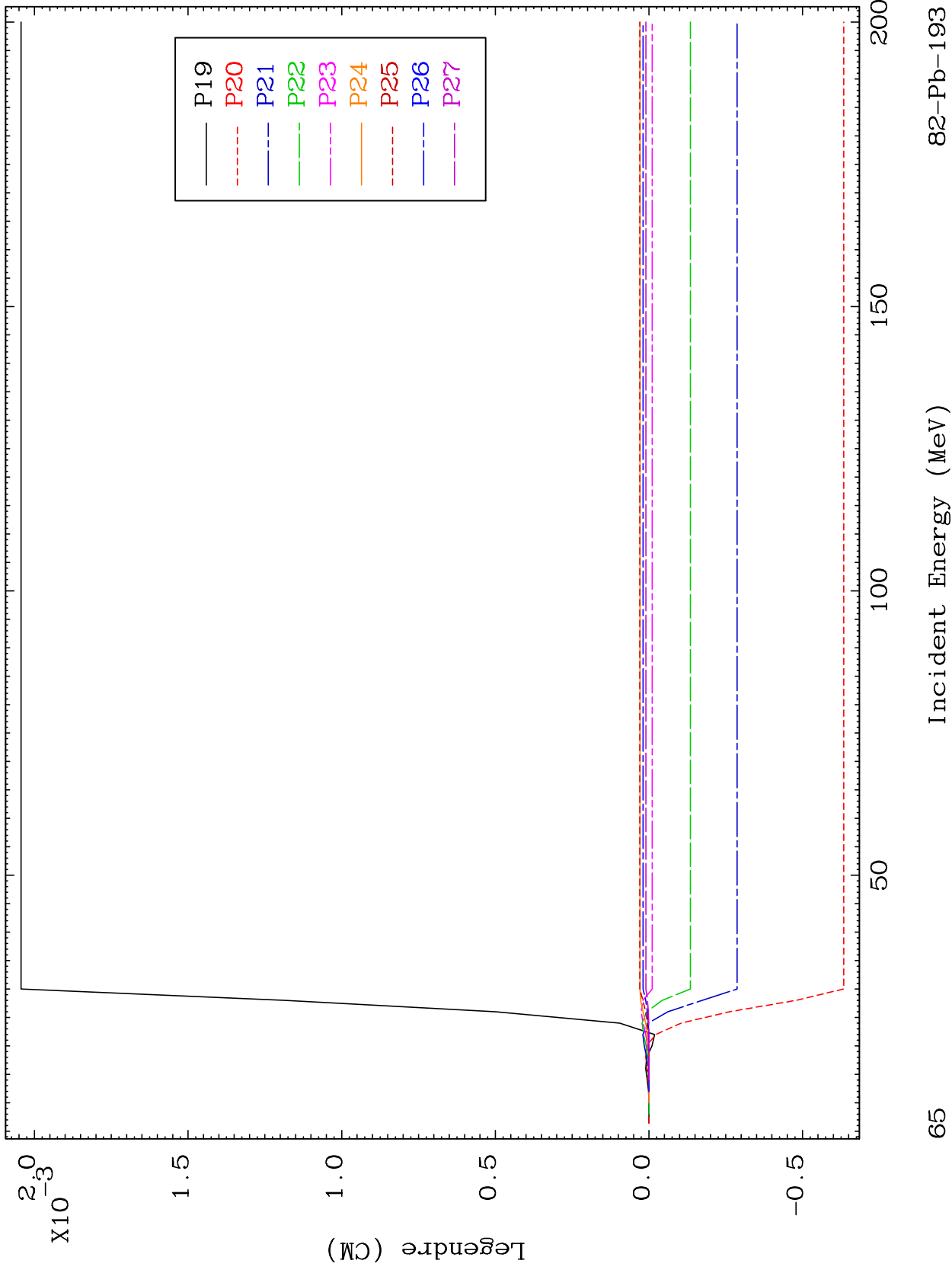
Incident Energy (MeV)

64

MAT 8192

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

82-Pb-193



65

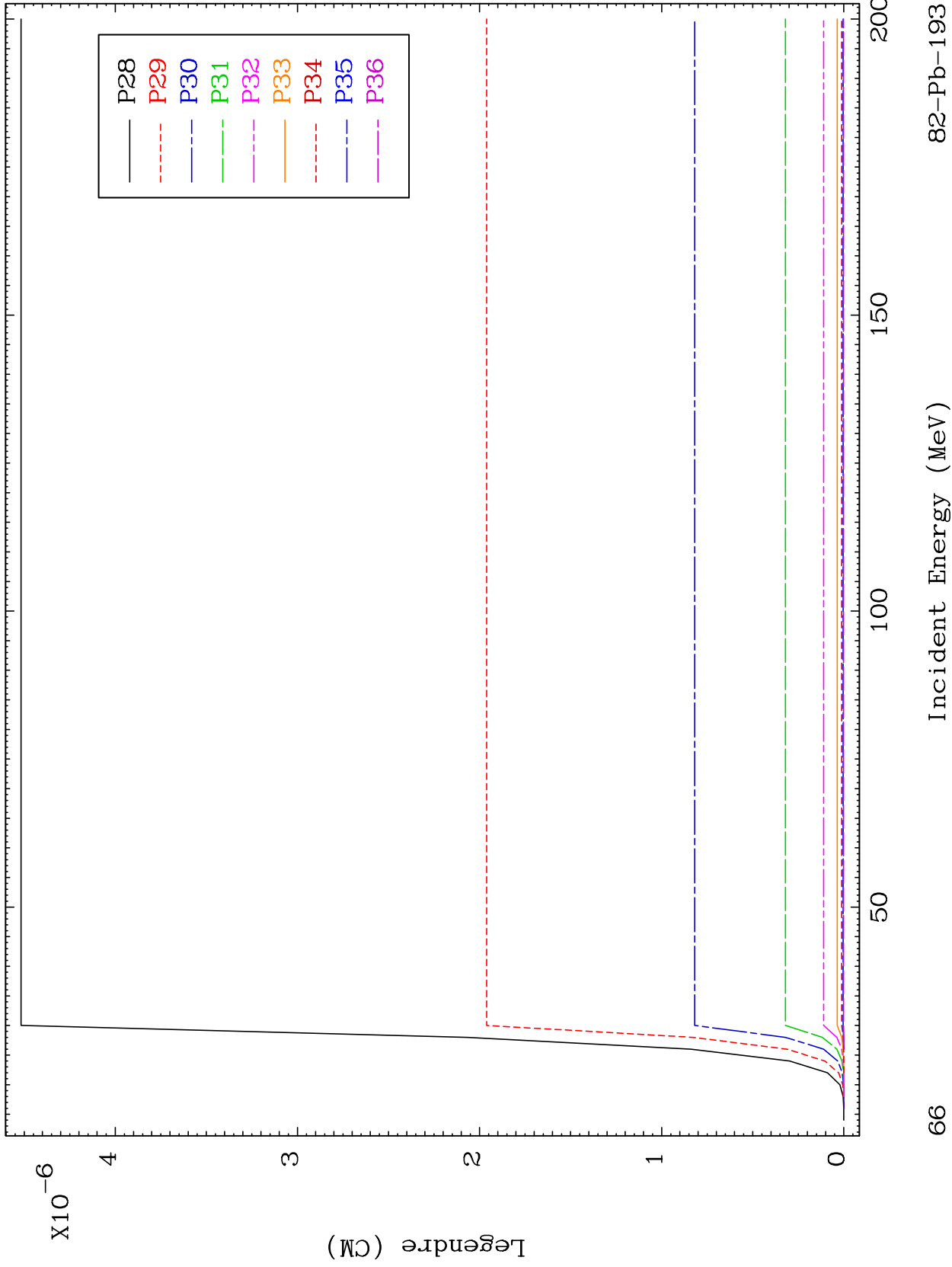
Incident Energy (MeV)

82-Pb-193

MAT 8192

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

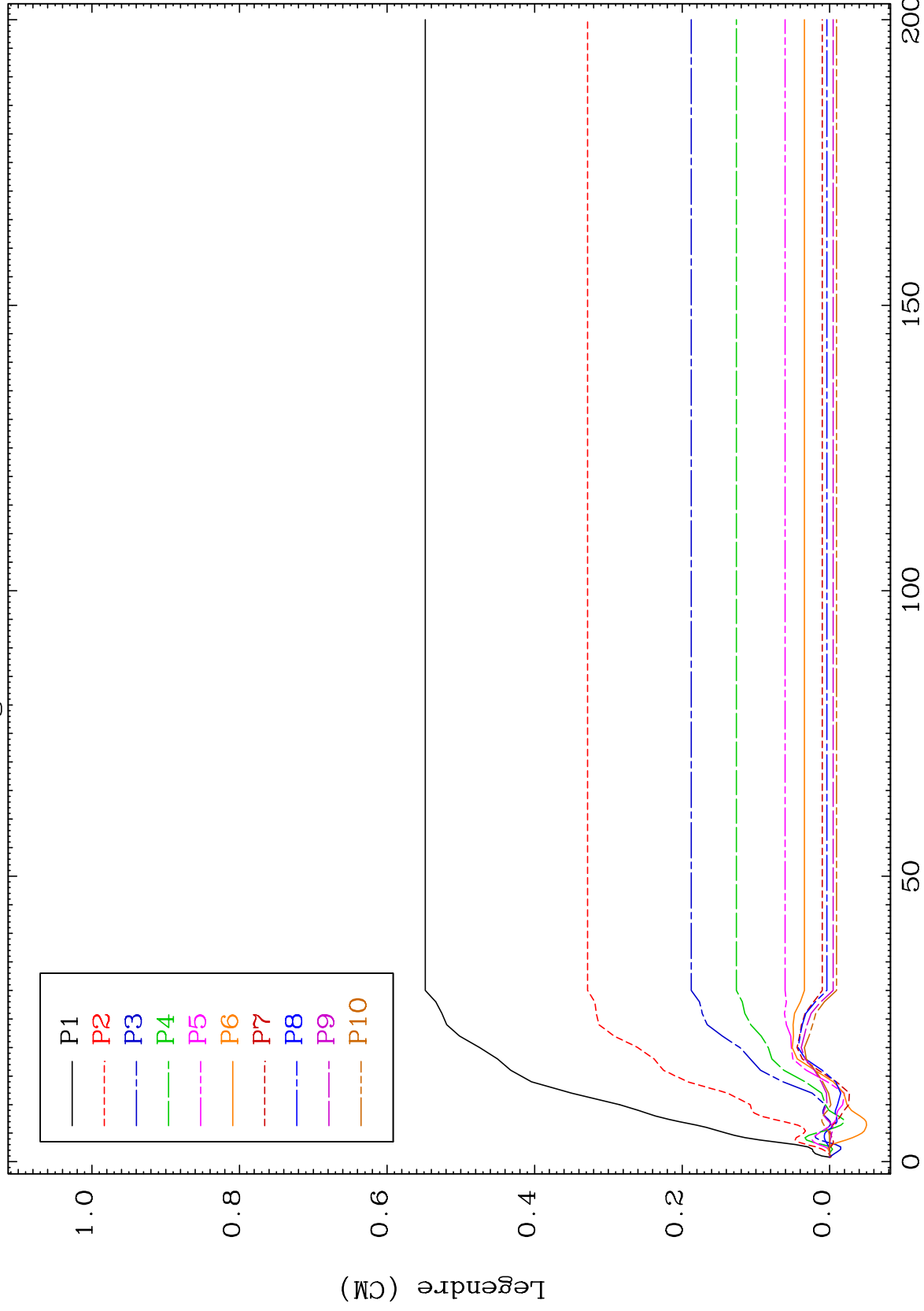
82-Pb-193



MAT 8192

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

82-Pb-193



82-Pb-193

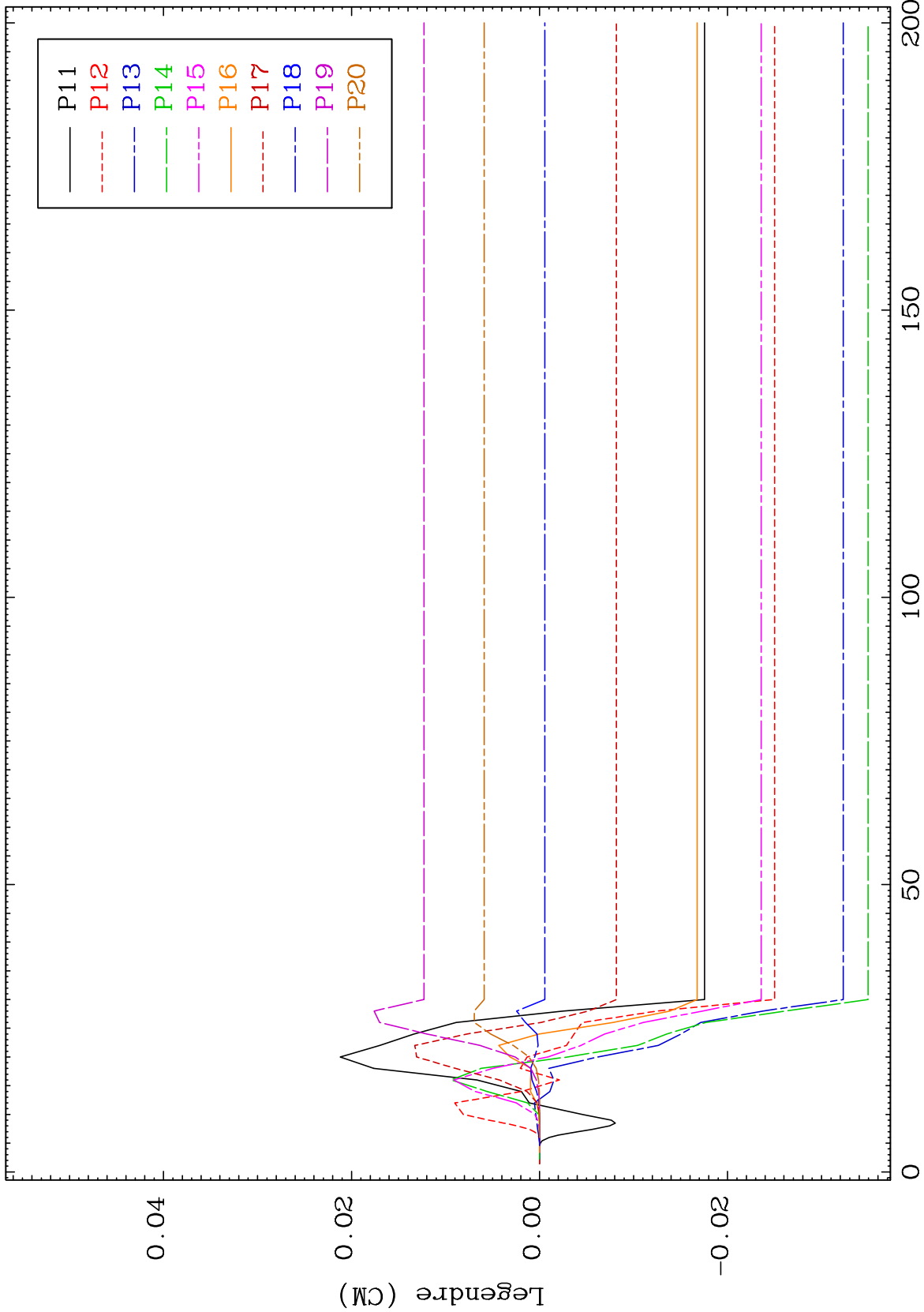
Incident Energy (MeV)

67

MAT 8192

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

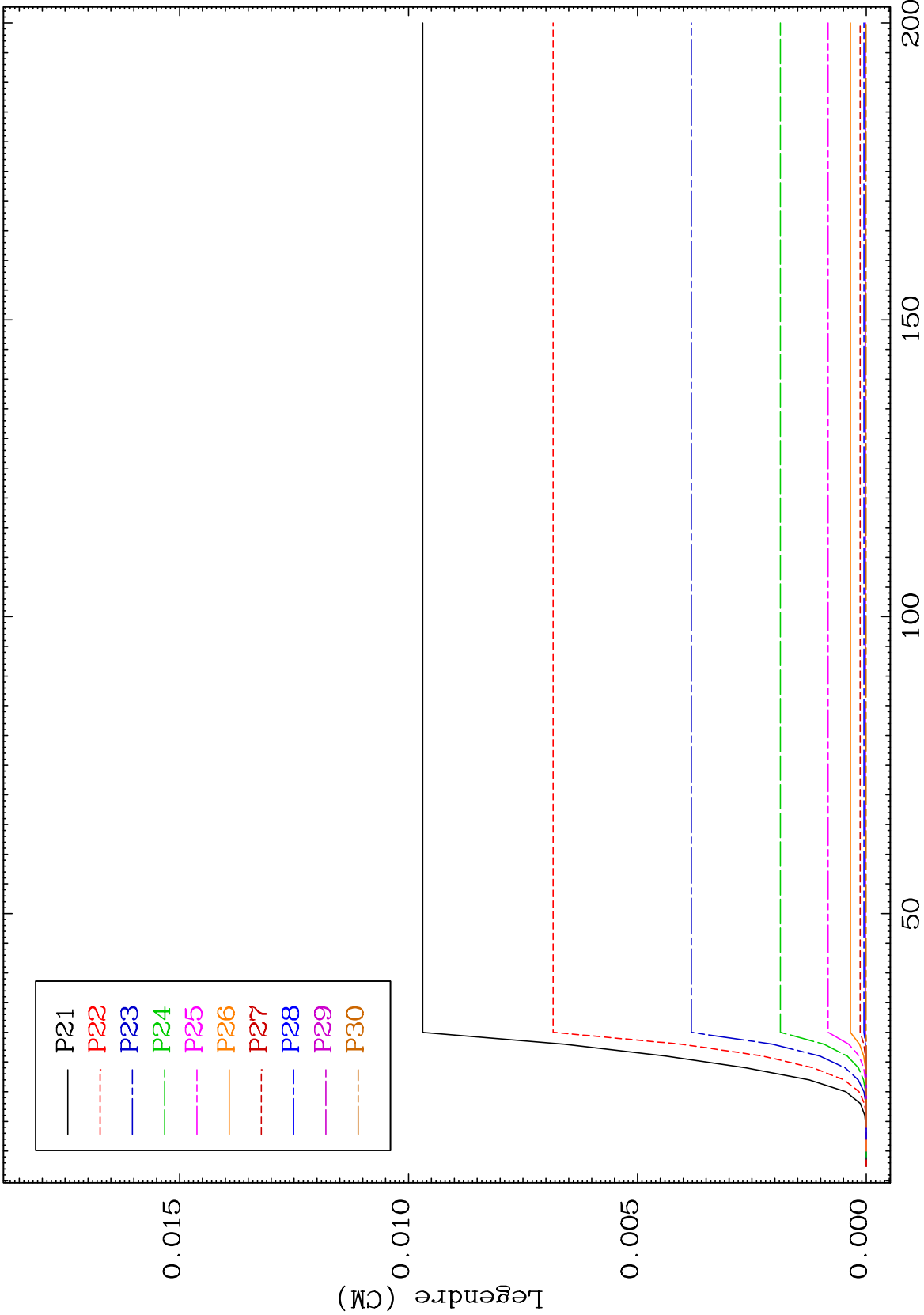
82-Pb-193



68

Incident Energy (MeV)

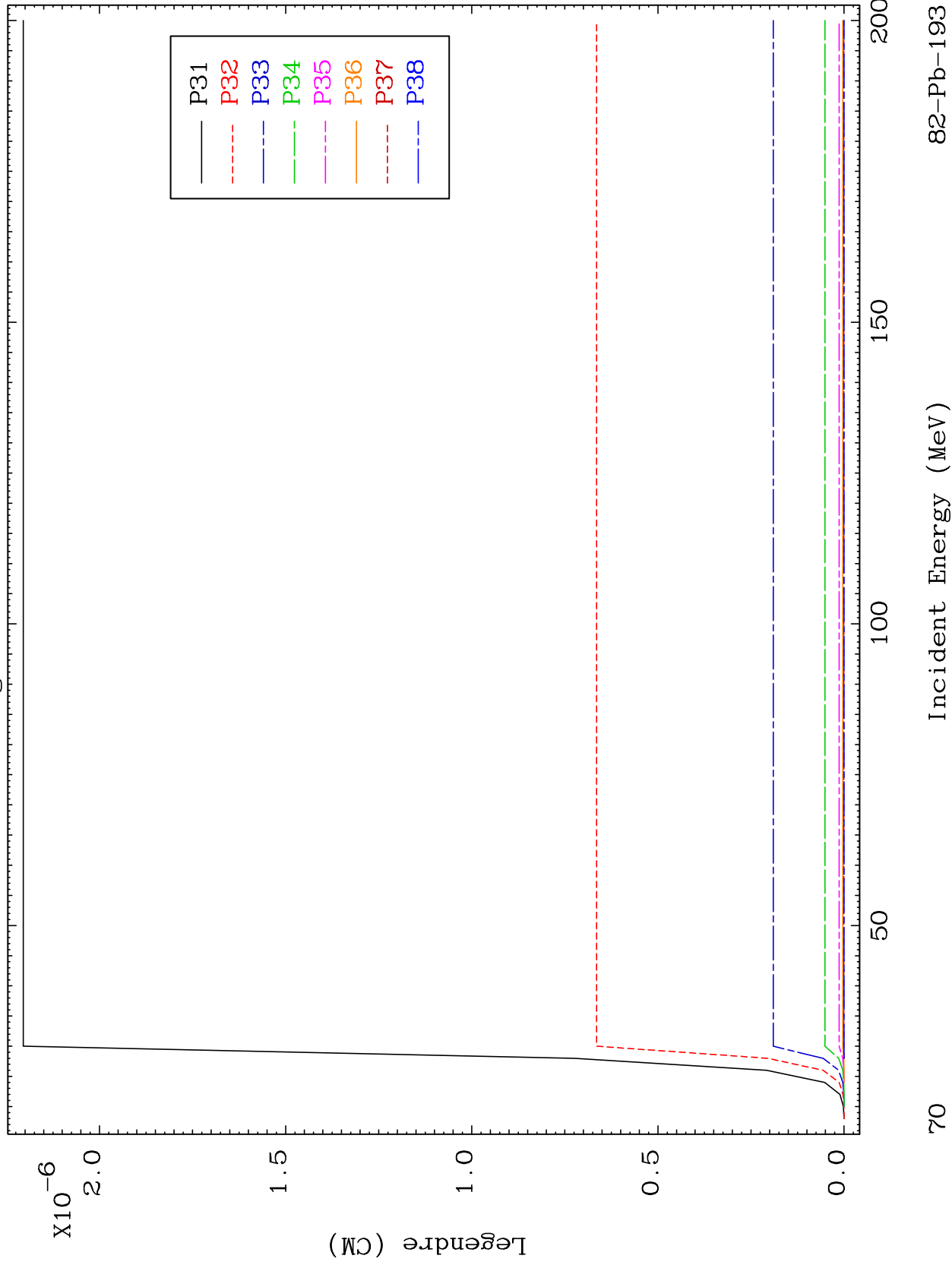
82-Pb-193



MAT 8192

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

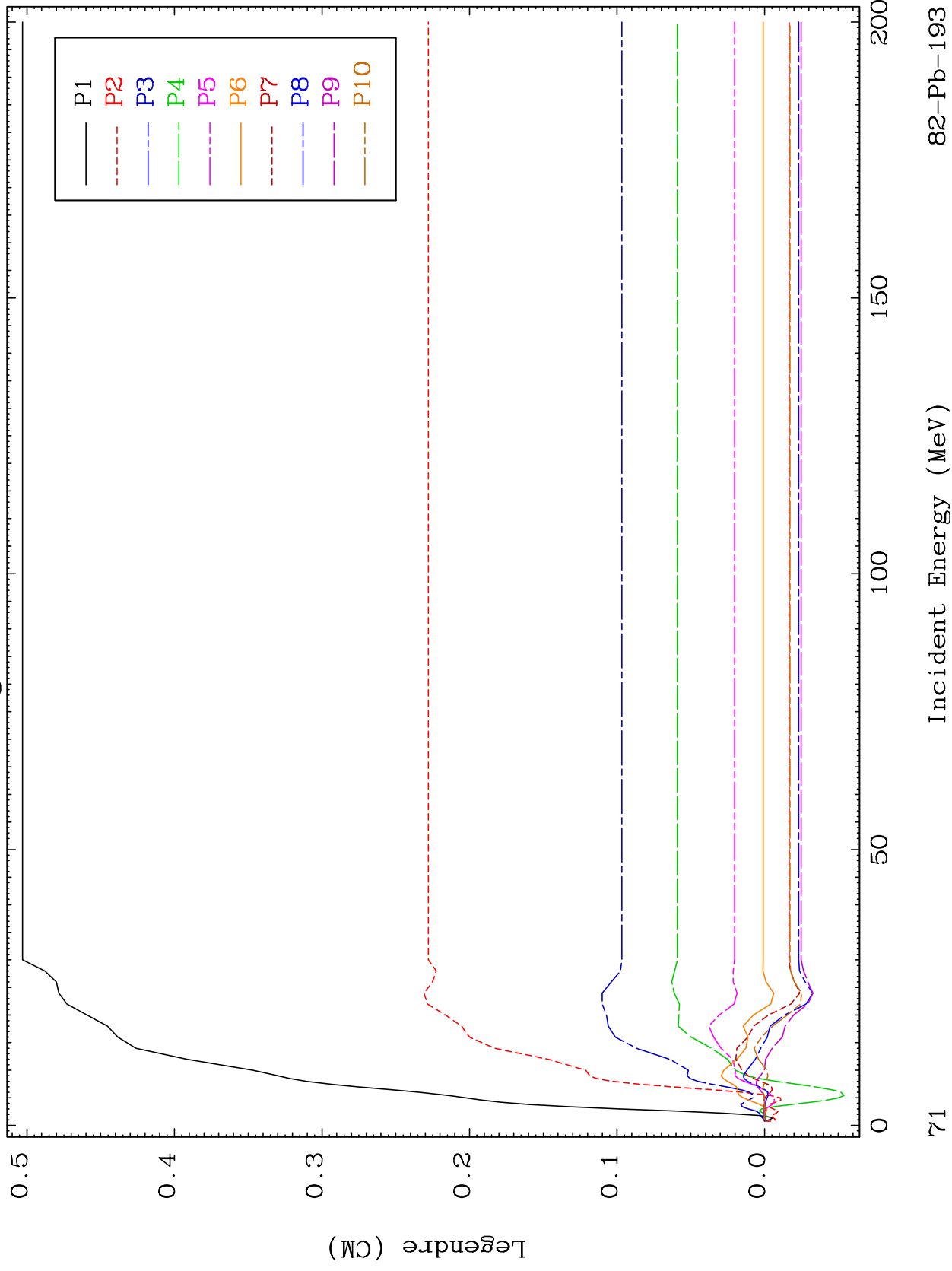
82-Pb-193



MAT 8192

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

82-Pb-193

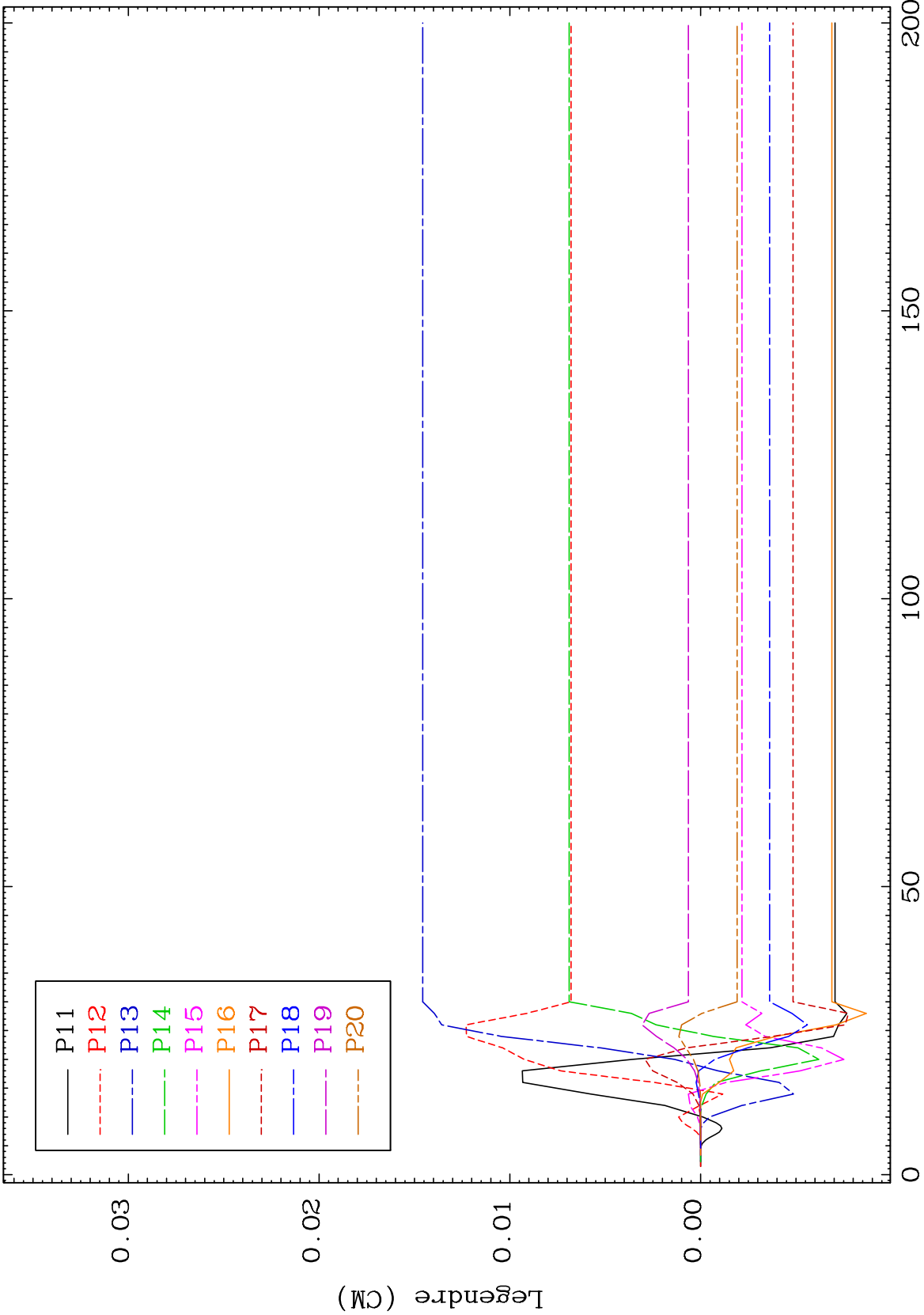




MAT 8192

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

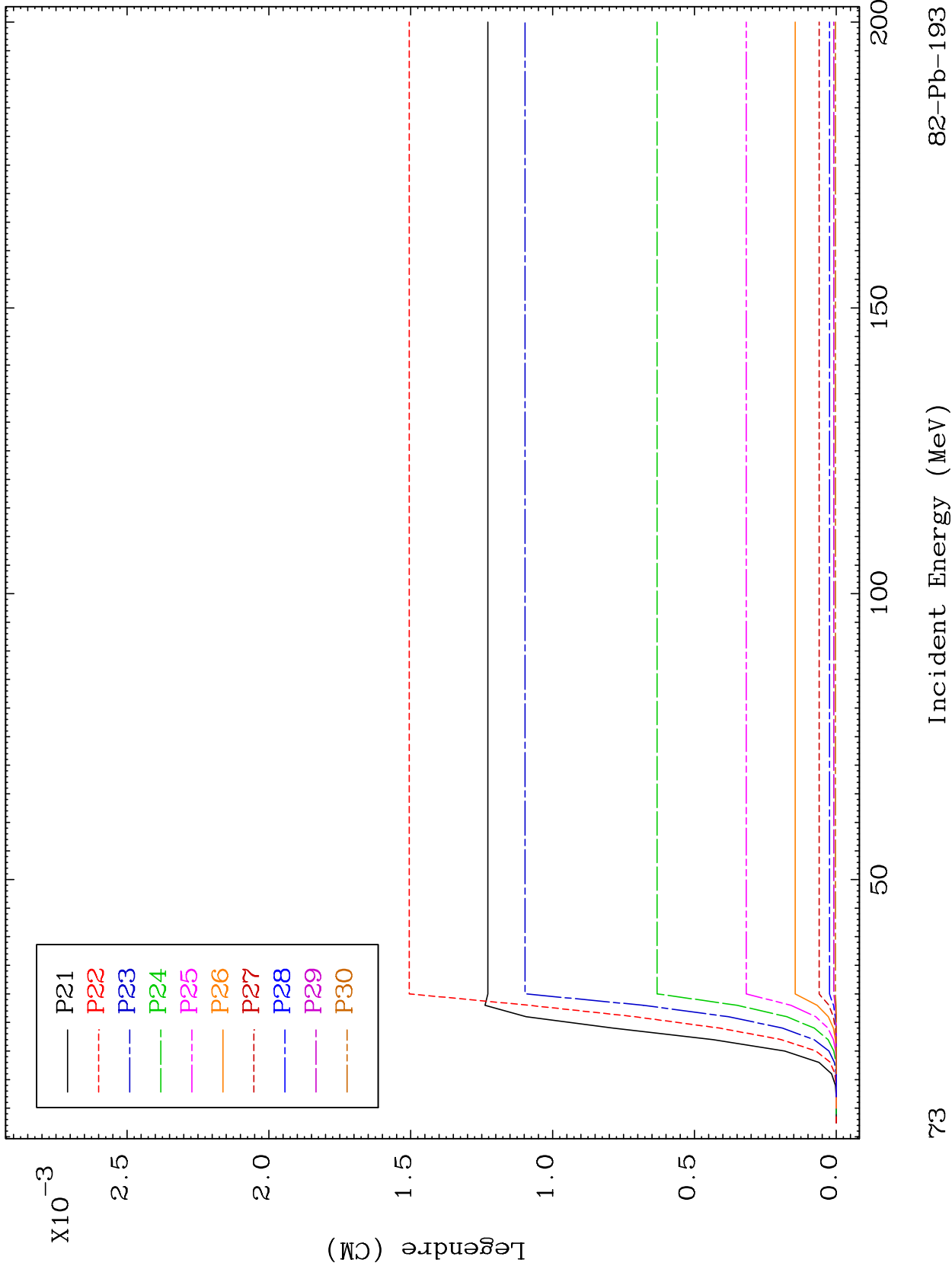
82-Pb-193



72

Incident Energy (MeV)

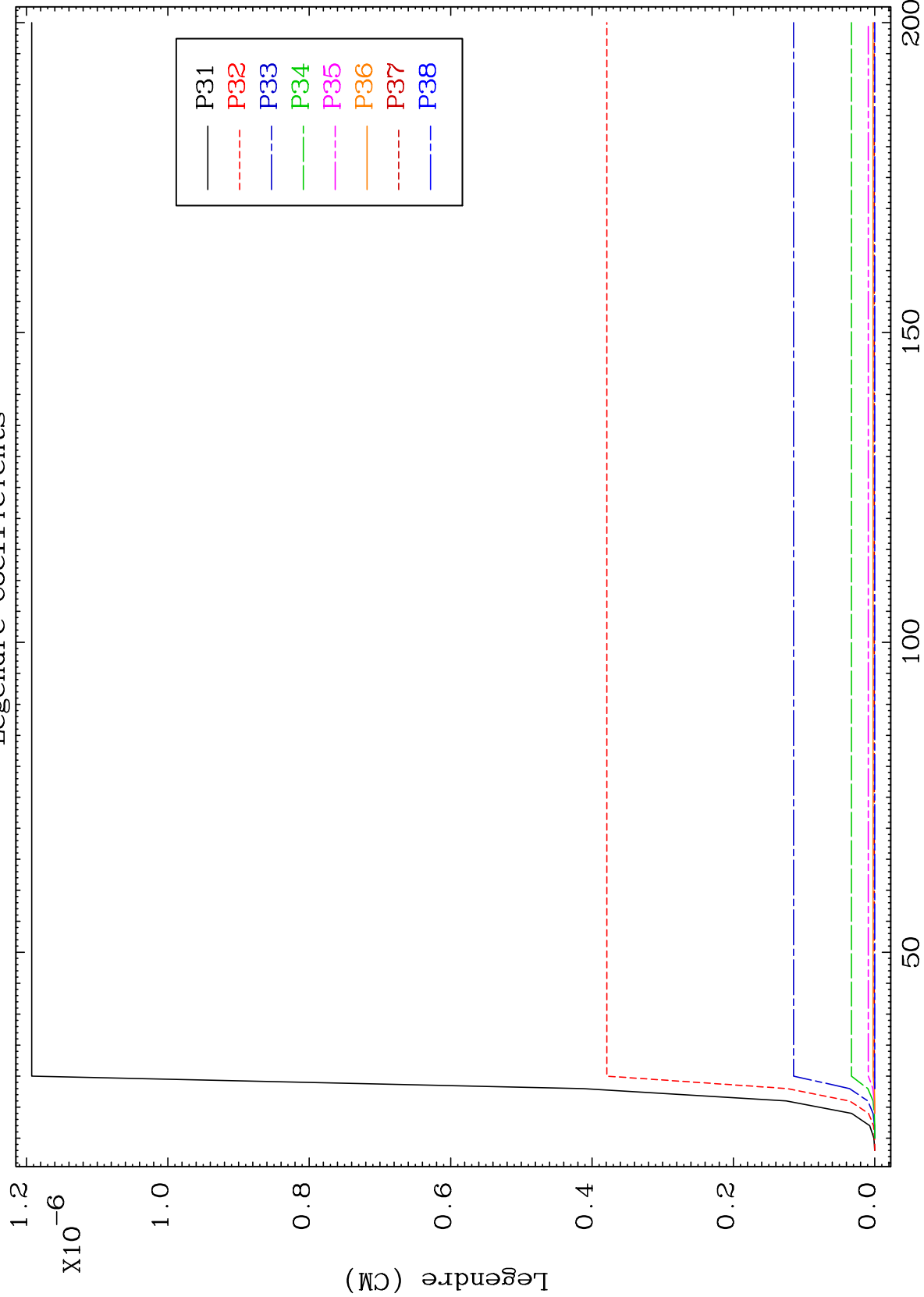
82-Pb-193



MAT 8192

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

82-Pb-193



74

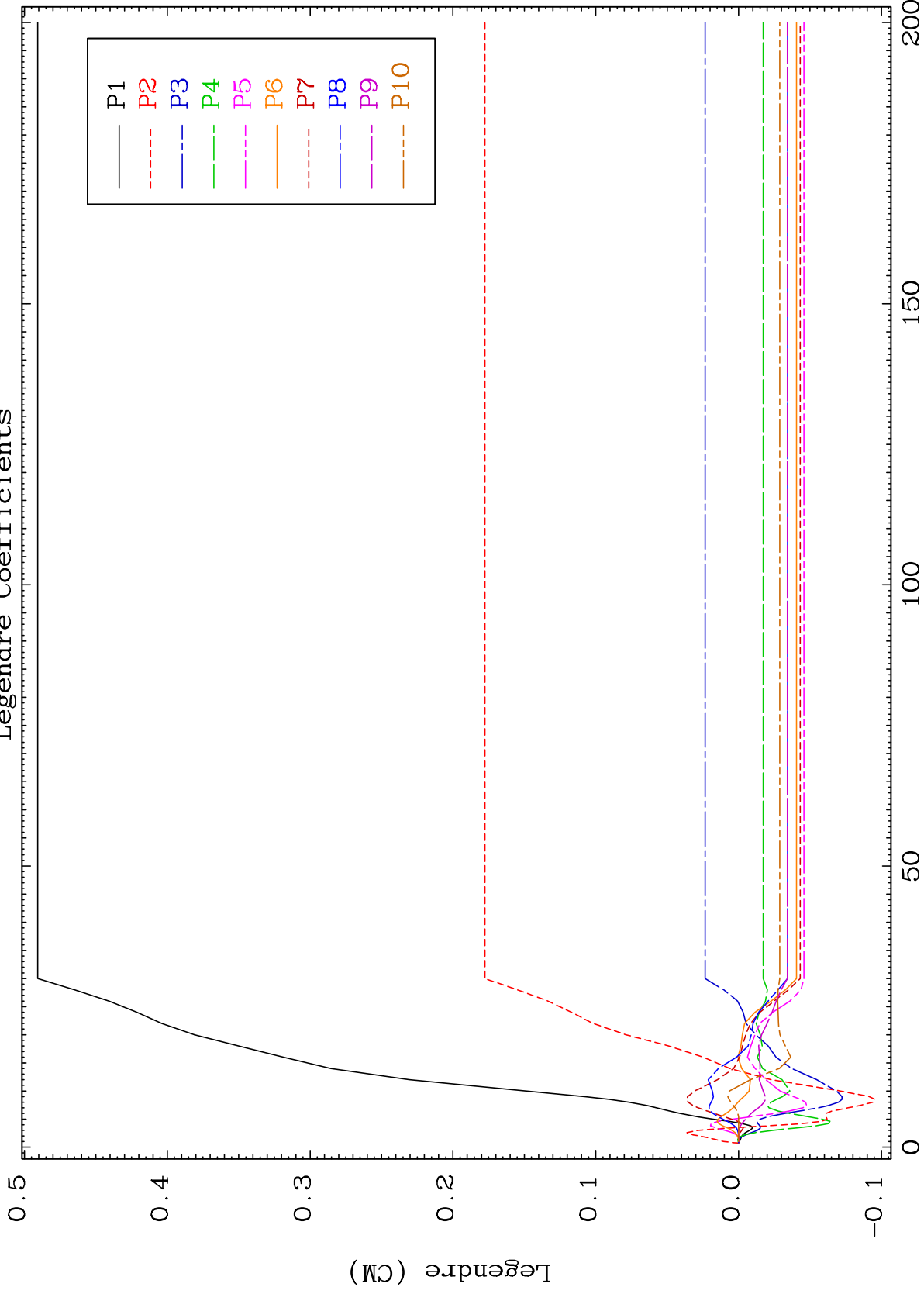
Incident Energy (MeV)

82-Pb-193

MAT 8192

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

82-Pb-193



75

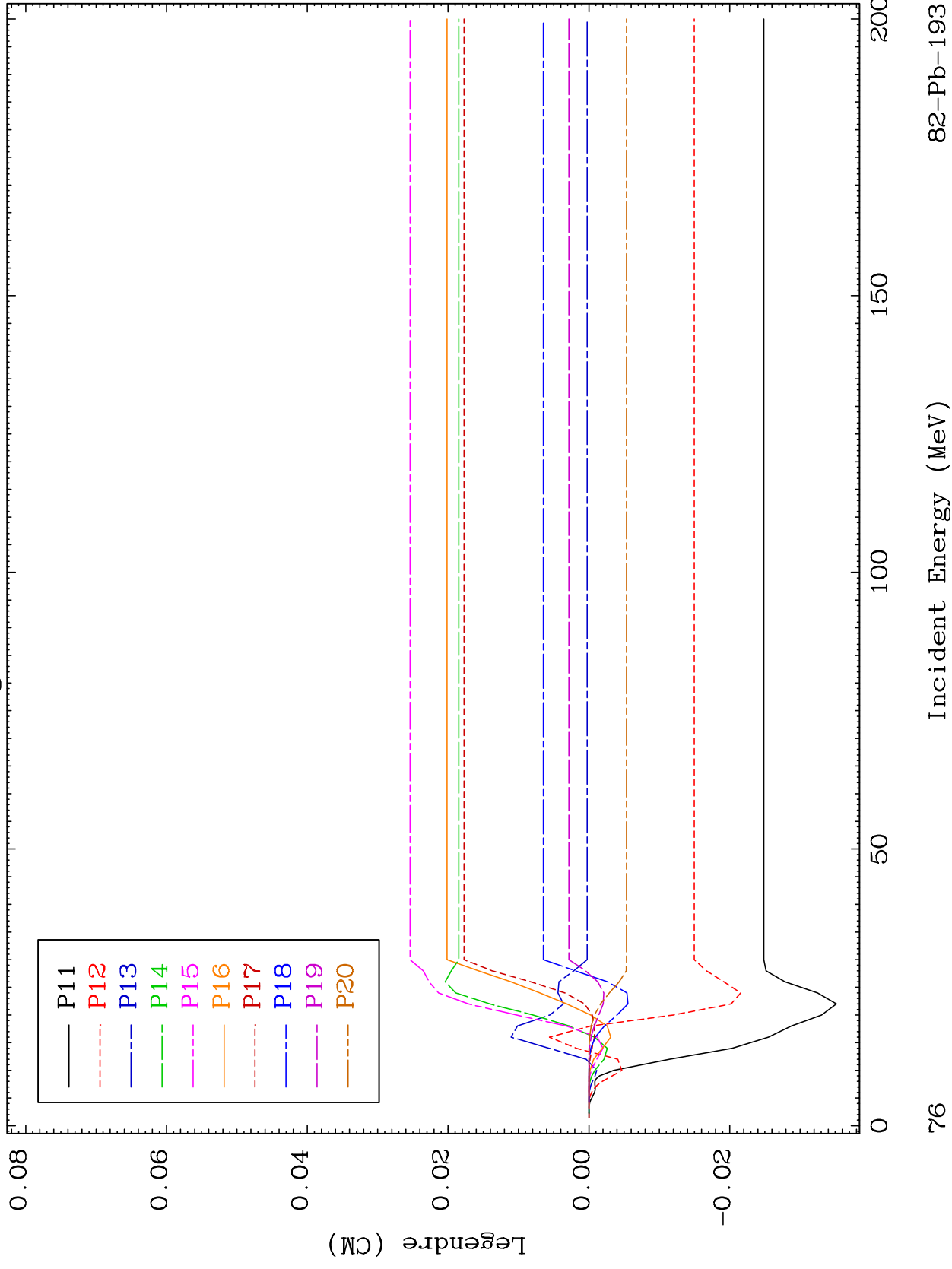
Incident Energy (MeV)

82-Pb-193

MAT 8192

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

82-Pb-193



76

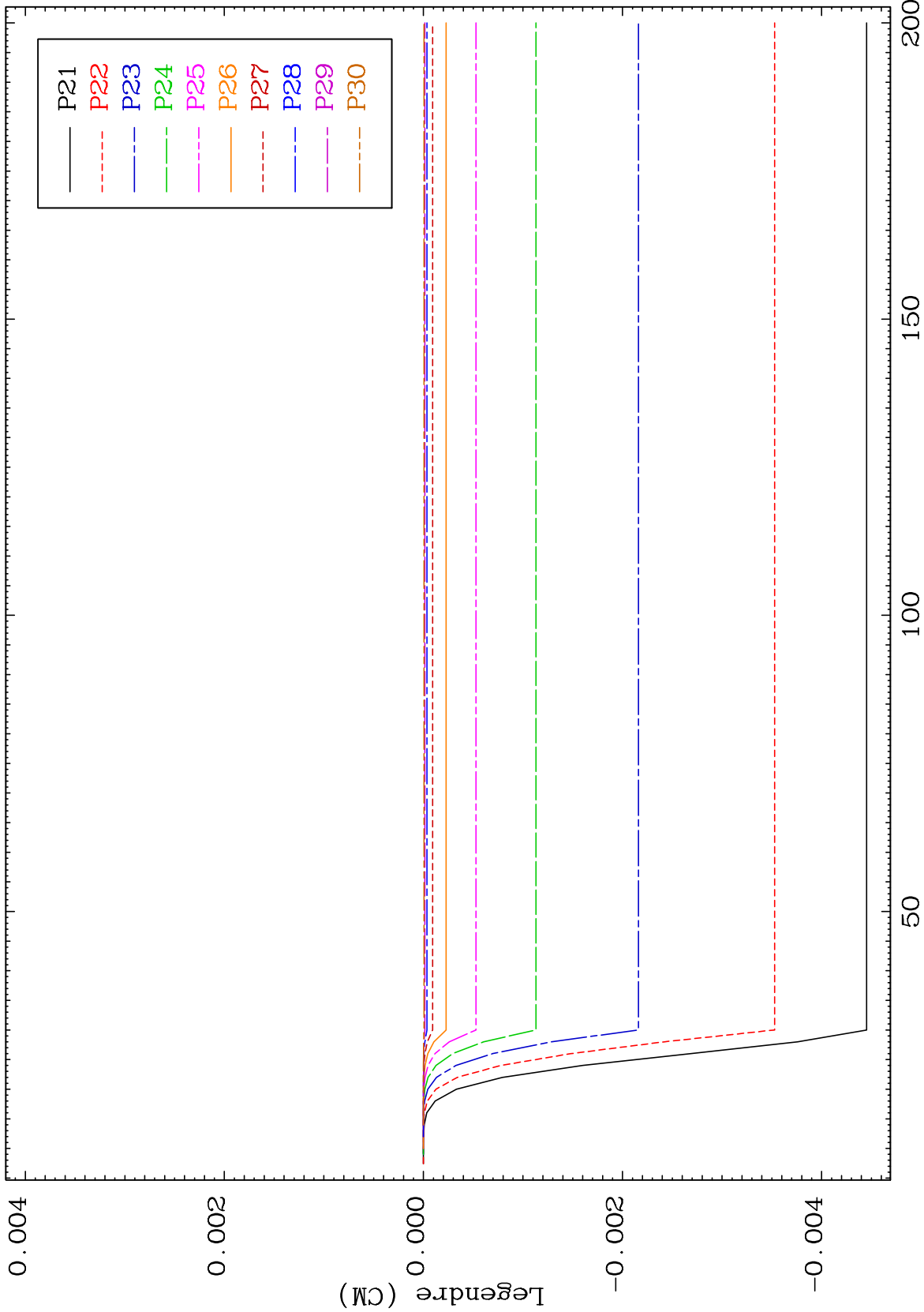
Incident Energy (MeV)

82-Pb-193

MAT 8192

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

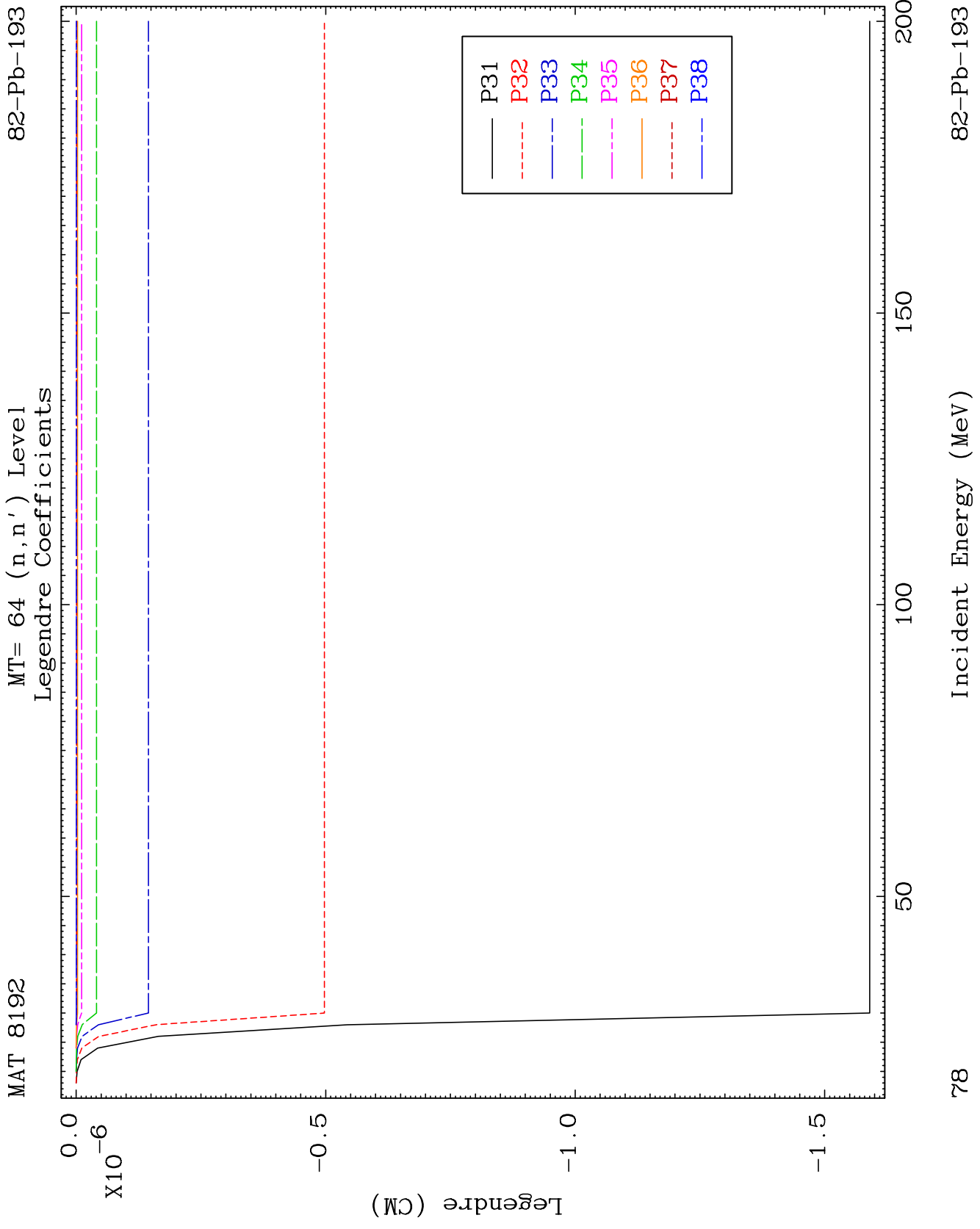
82-Pb-193



77

Incident Energy (MeV)

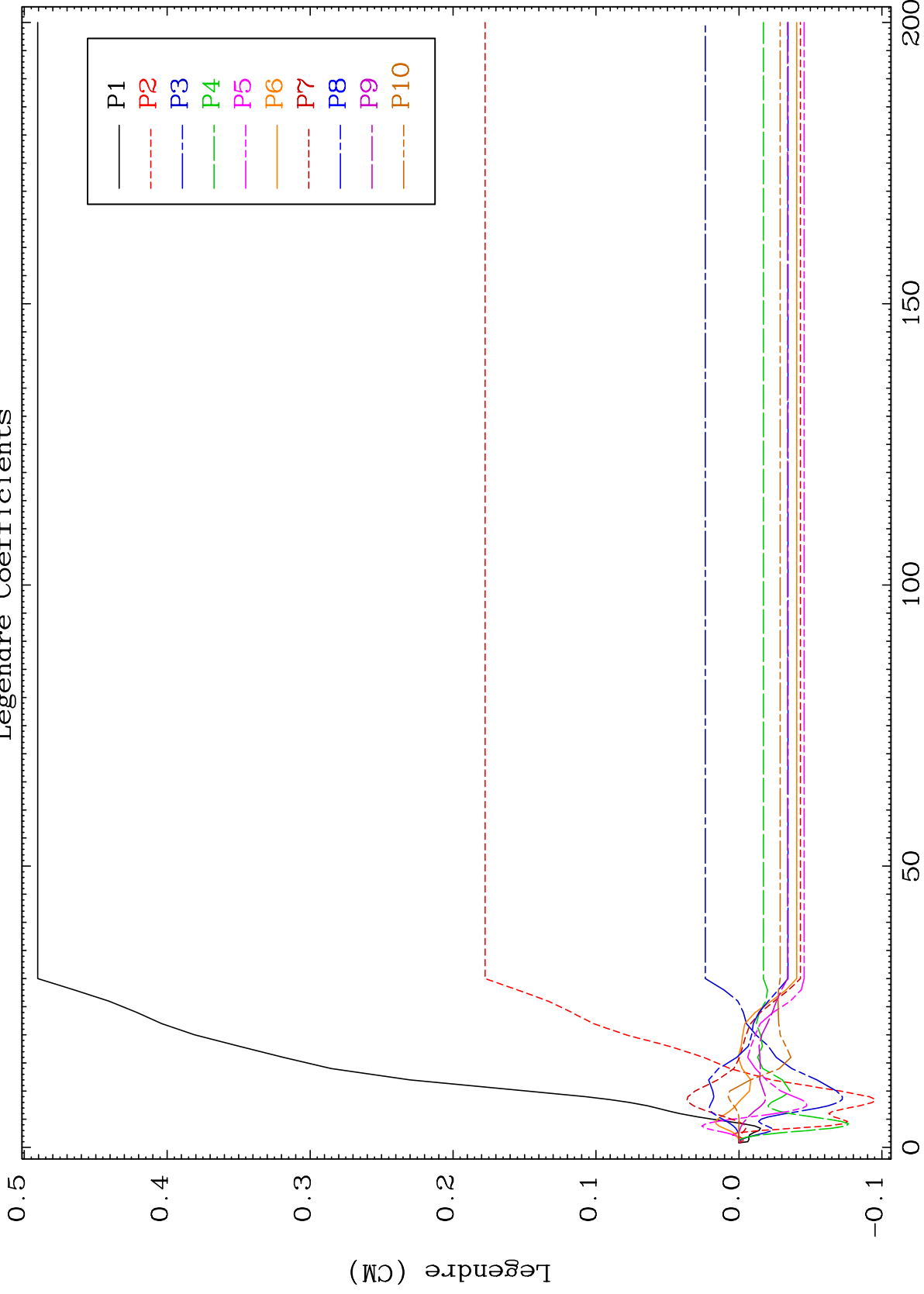
82-Pb-193



MAT 8192

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

82-Pb-193



79

Incident Energy (MeV)

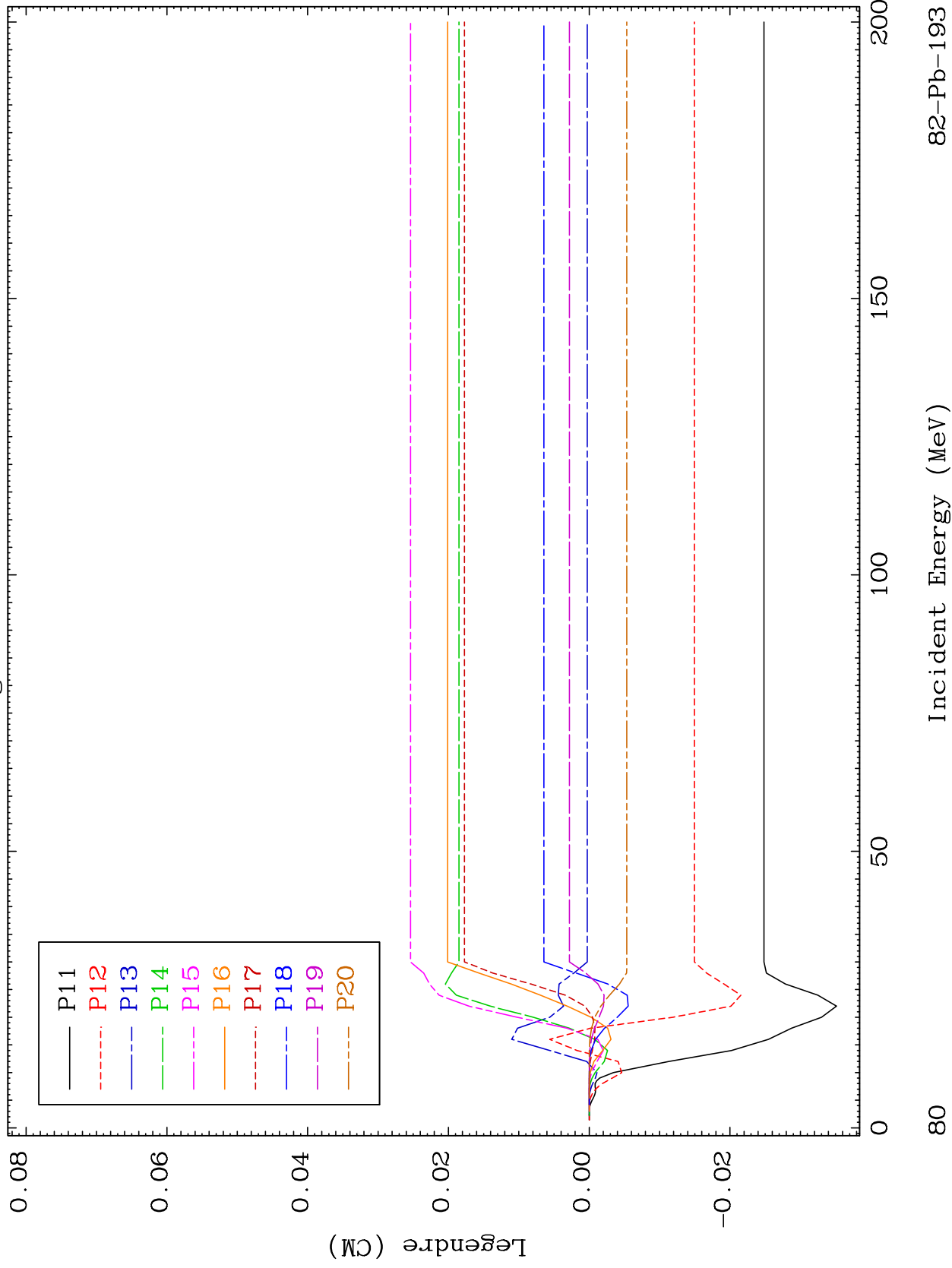
82-Pb-193



MAT 8192

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

82-Pb-193

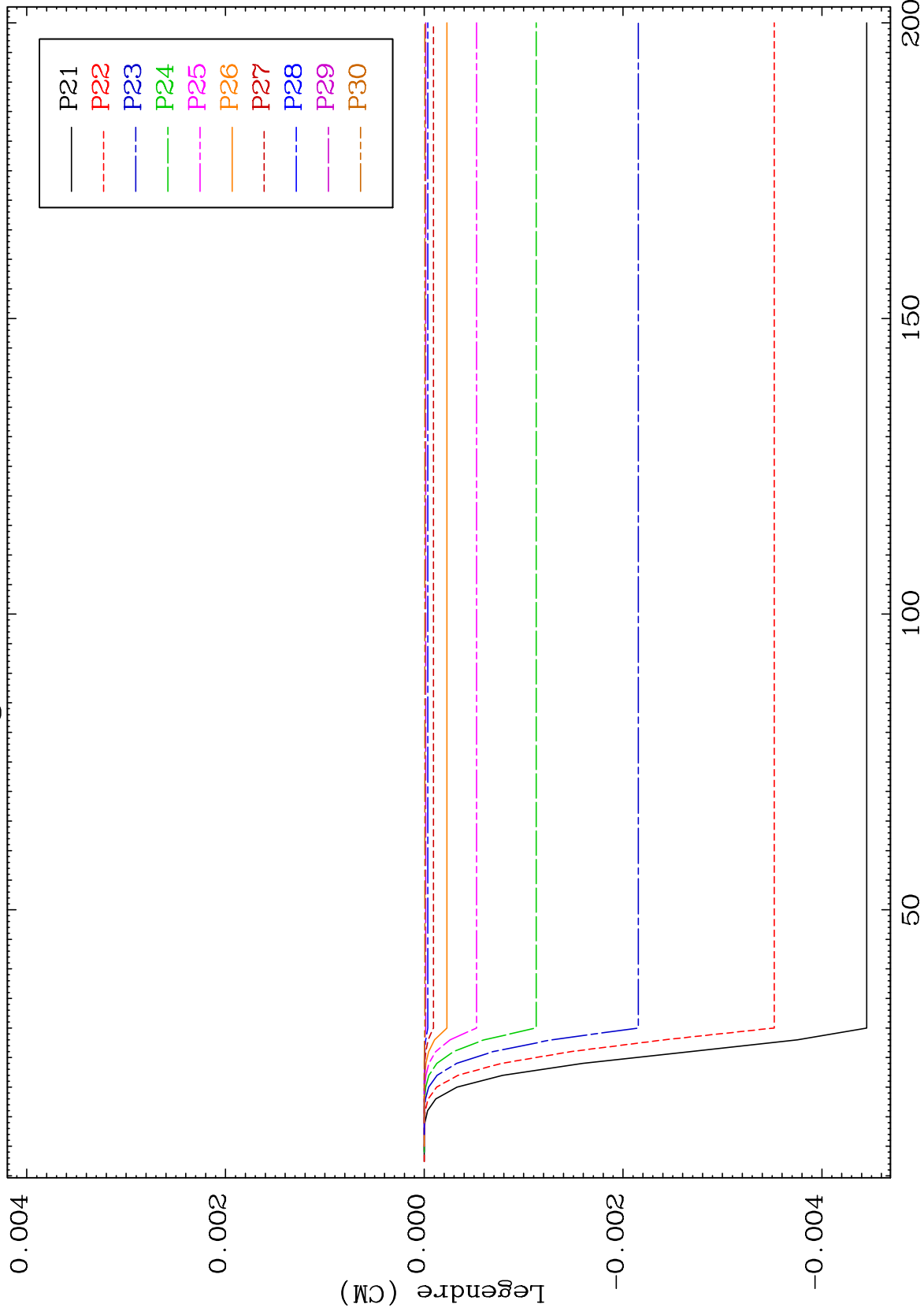


82-Pb-193

MAT 8192

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

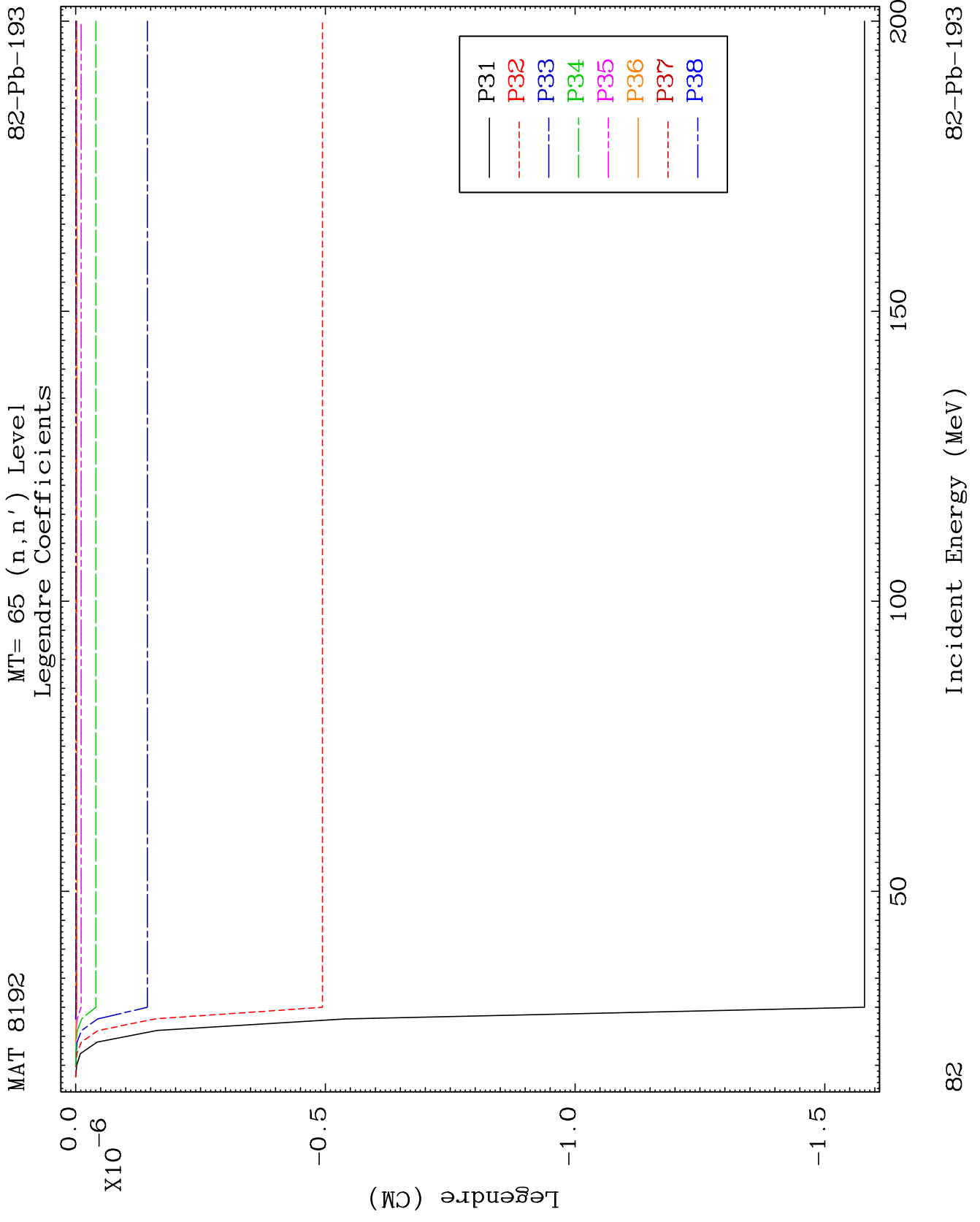
82-Pb-193

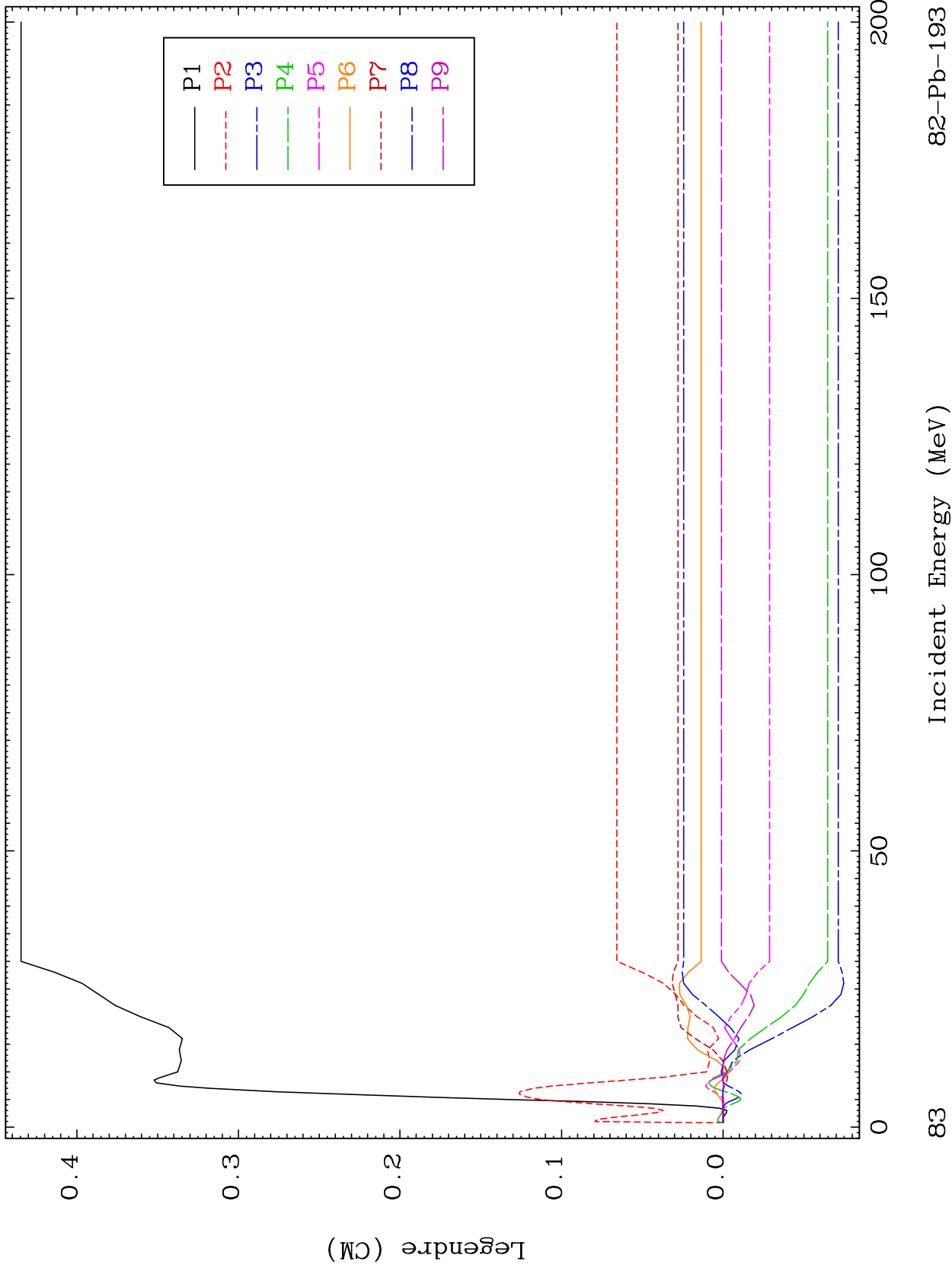


81

Incident Energy (MeV)

82-Pb-193

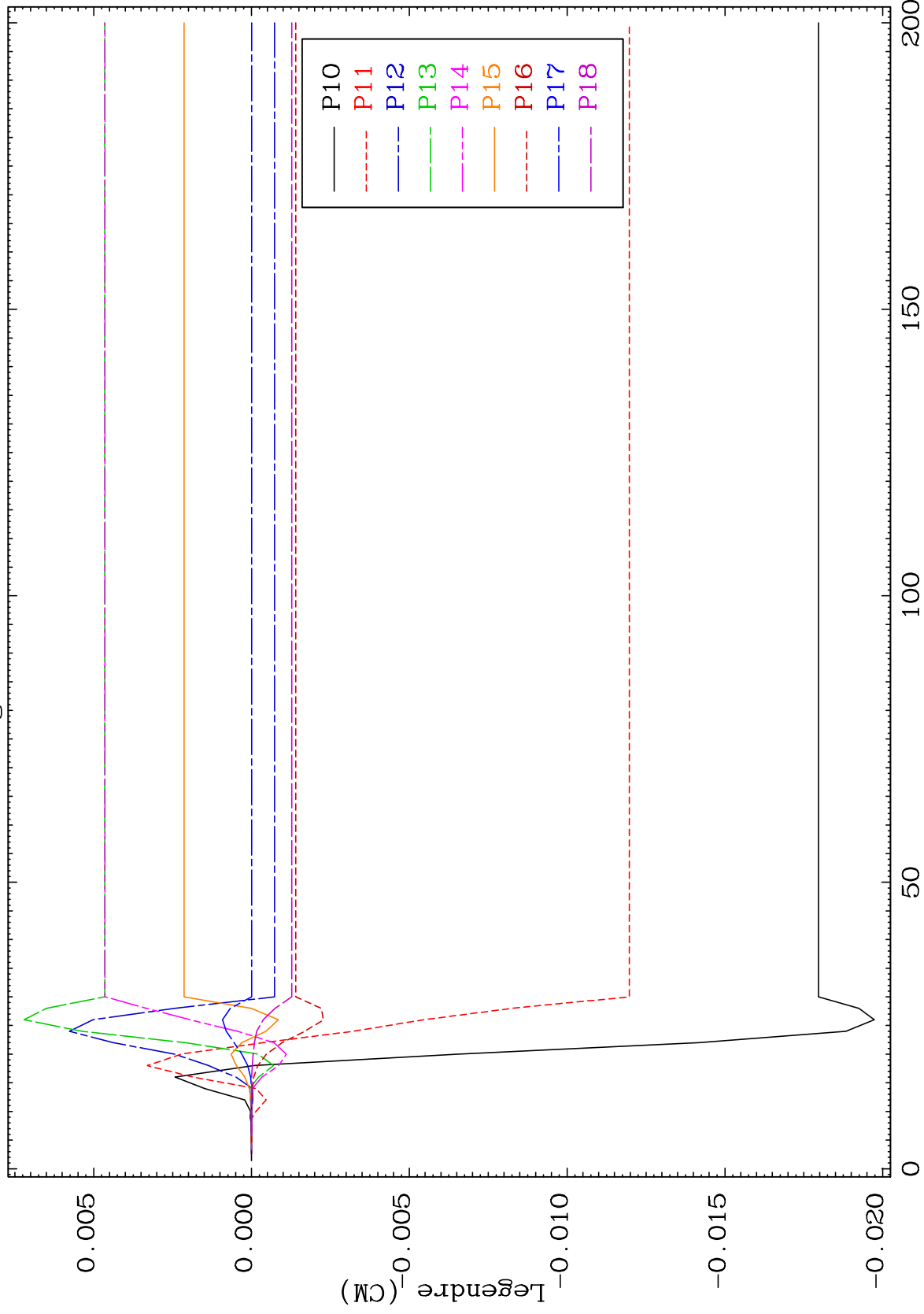




MAT 8192

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

82-Pb-193



84

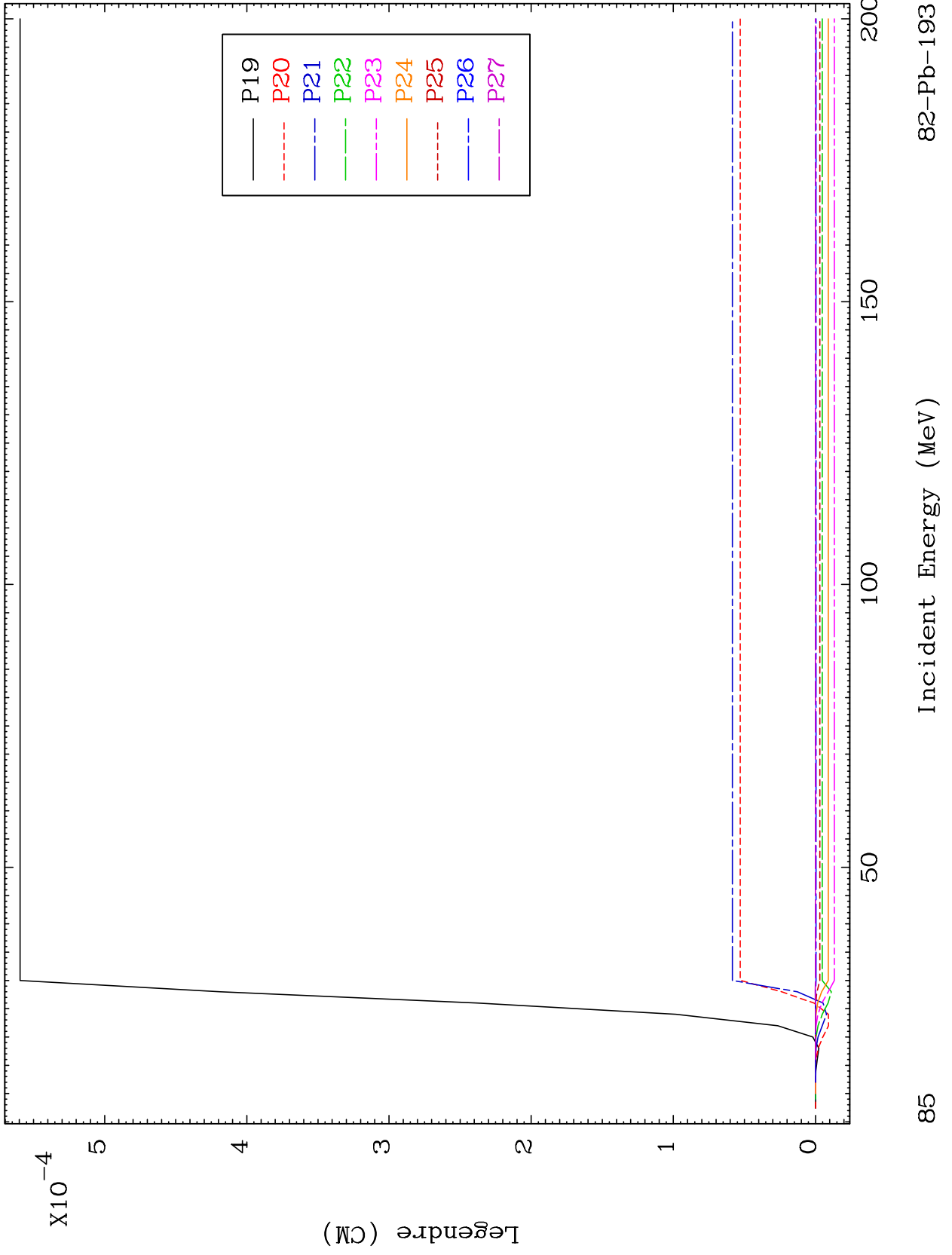
Incident Energy (MeV)

82-Pb-193

MAT 8192

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

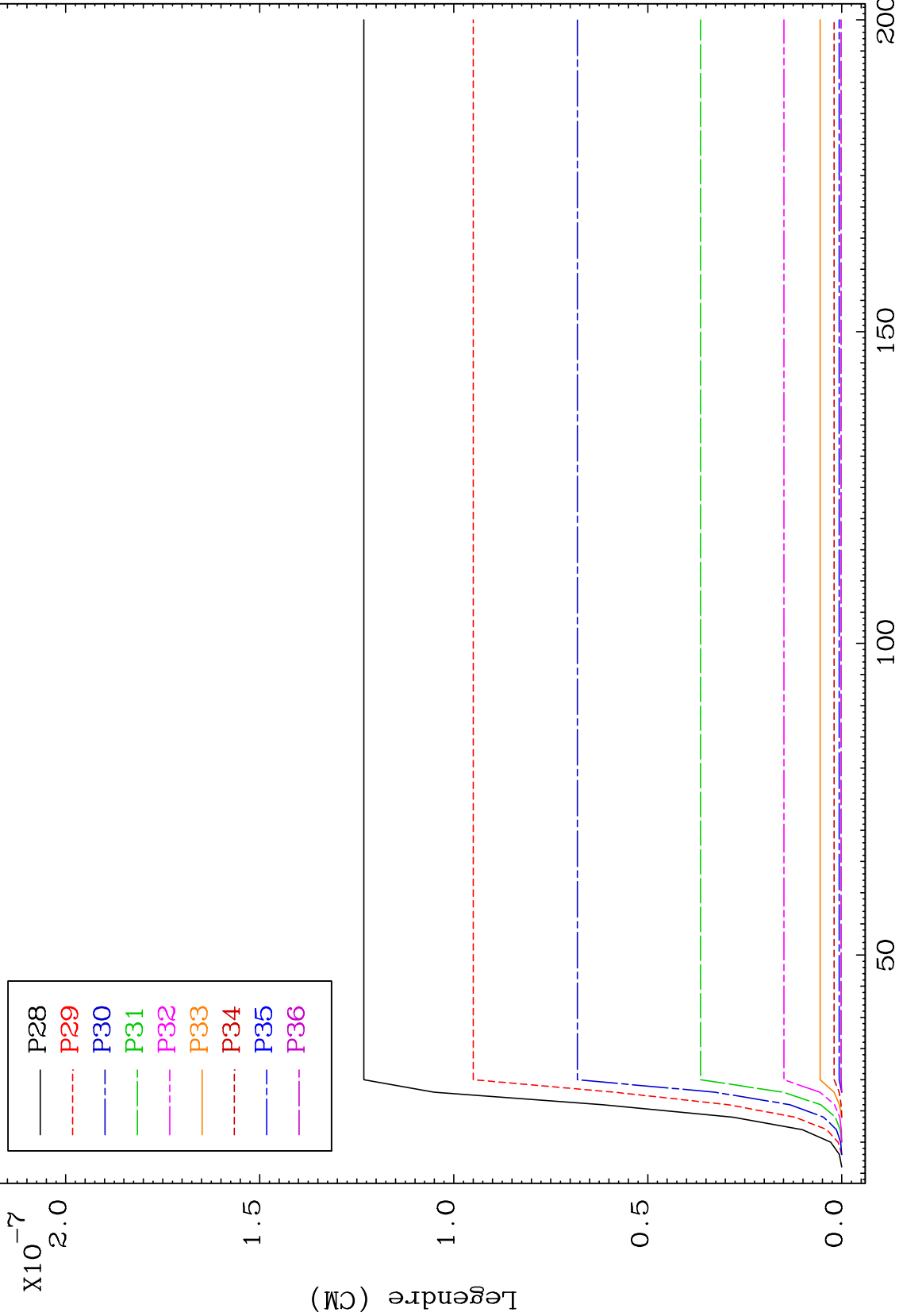
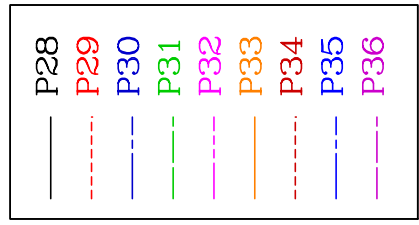
82-Pb-193



MAT 8192

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

82-Pb-193



86

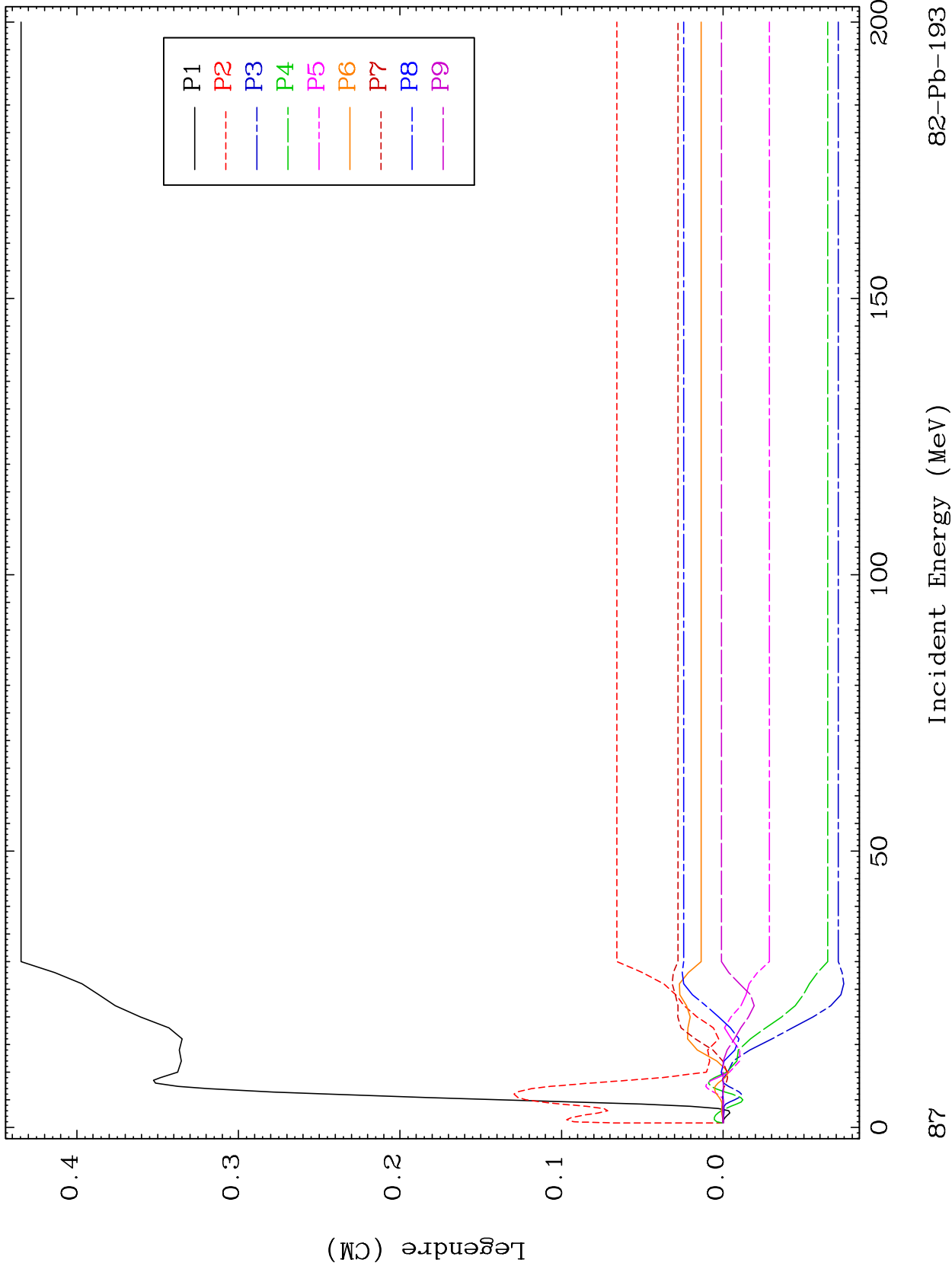
Incident Energy (MeV)

82-Pb-193

MAT 8192

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

82-Pb-193



82-Pb-193

Incident Energy (MeV)

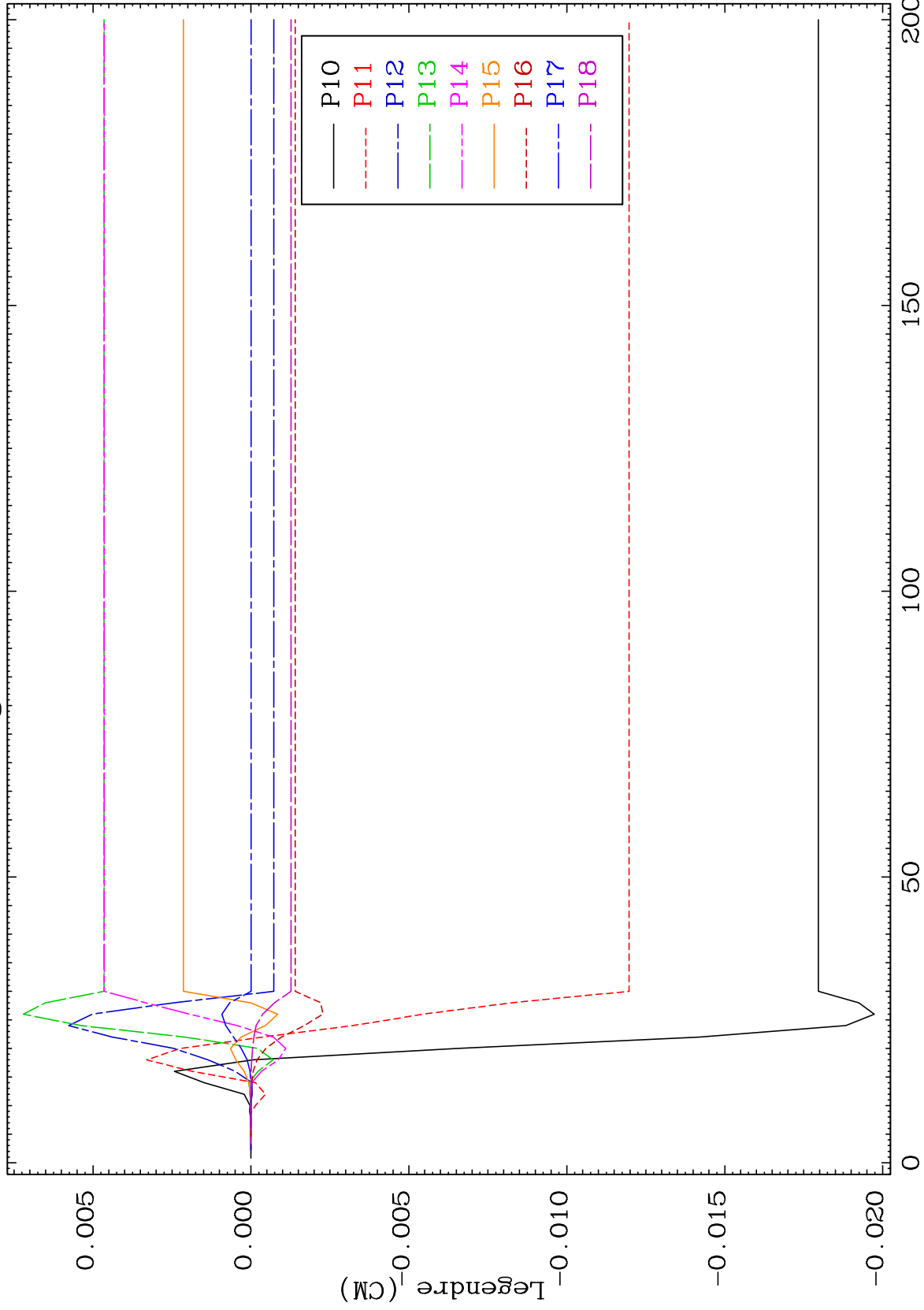
87



MAT 8192

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

82-Pb-193



88

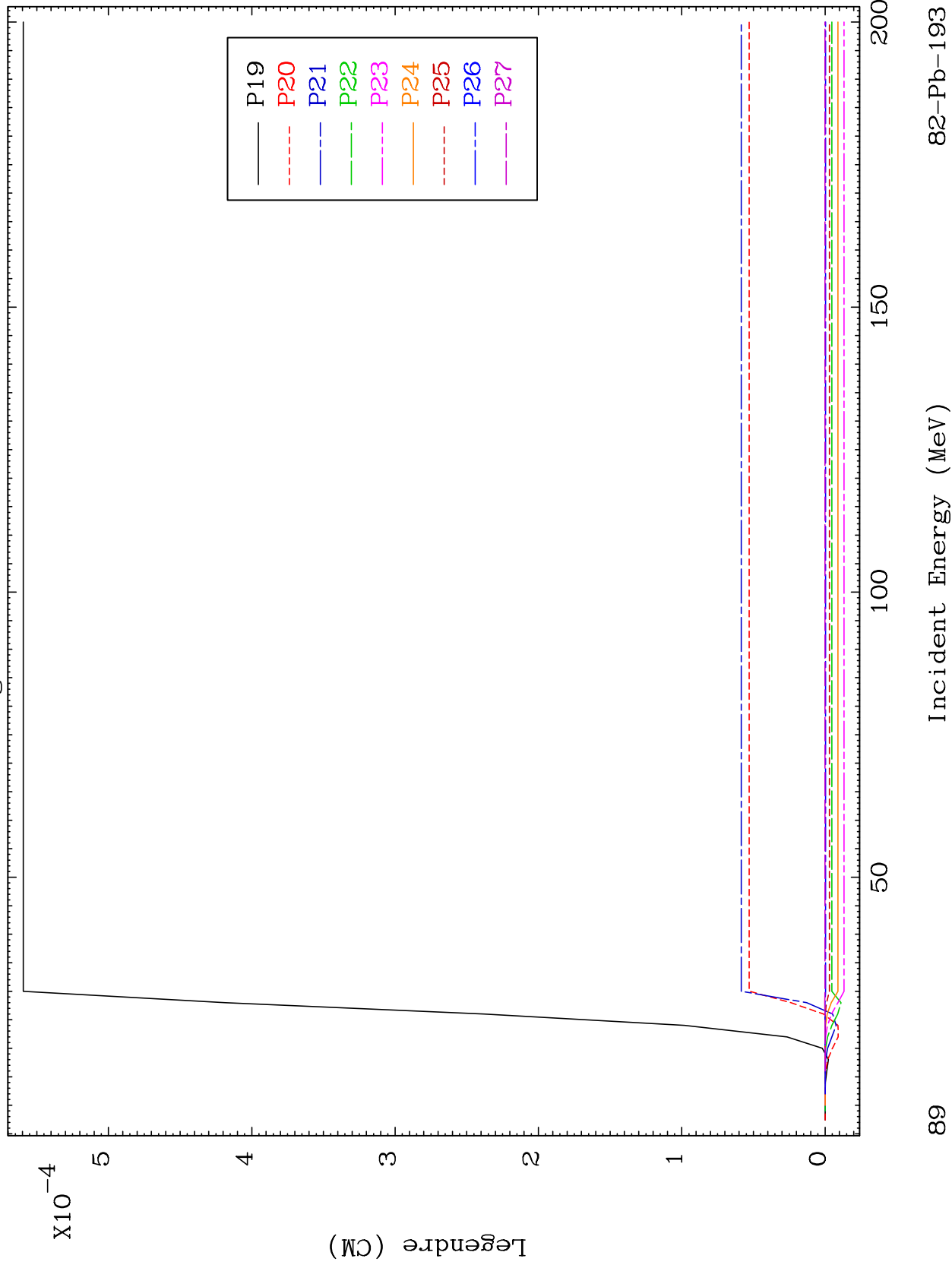
Incident Energy (MeV)

82-Pb-193

MAT 8192

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

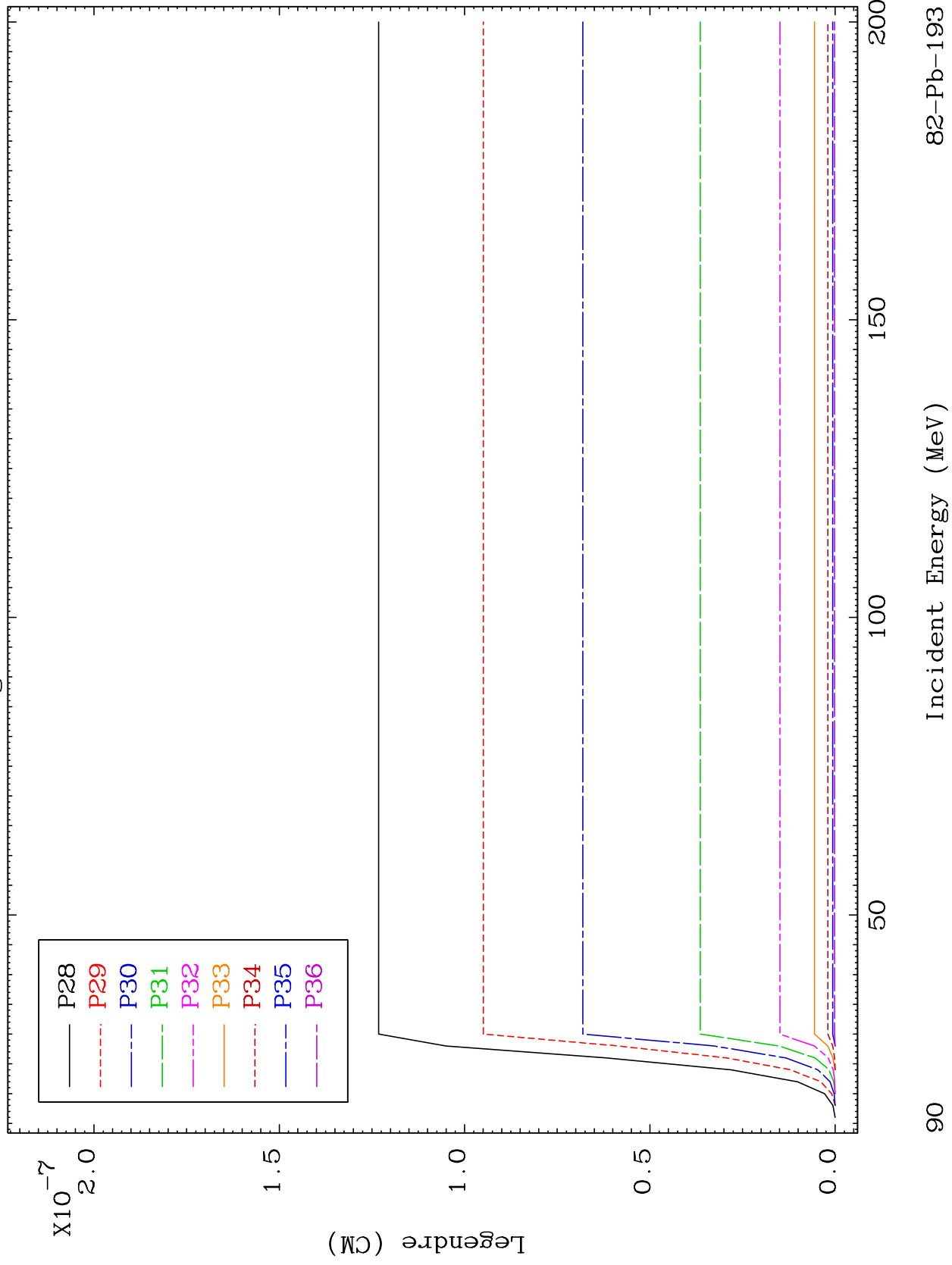
82-Pb-193



MAT 8192

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

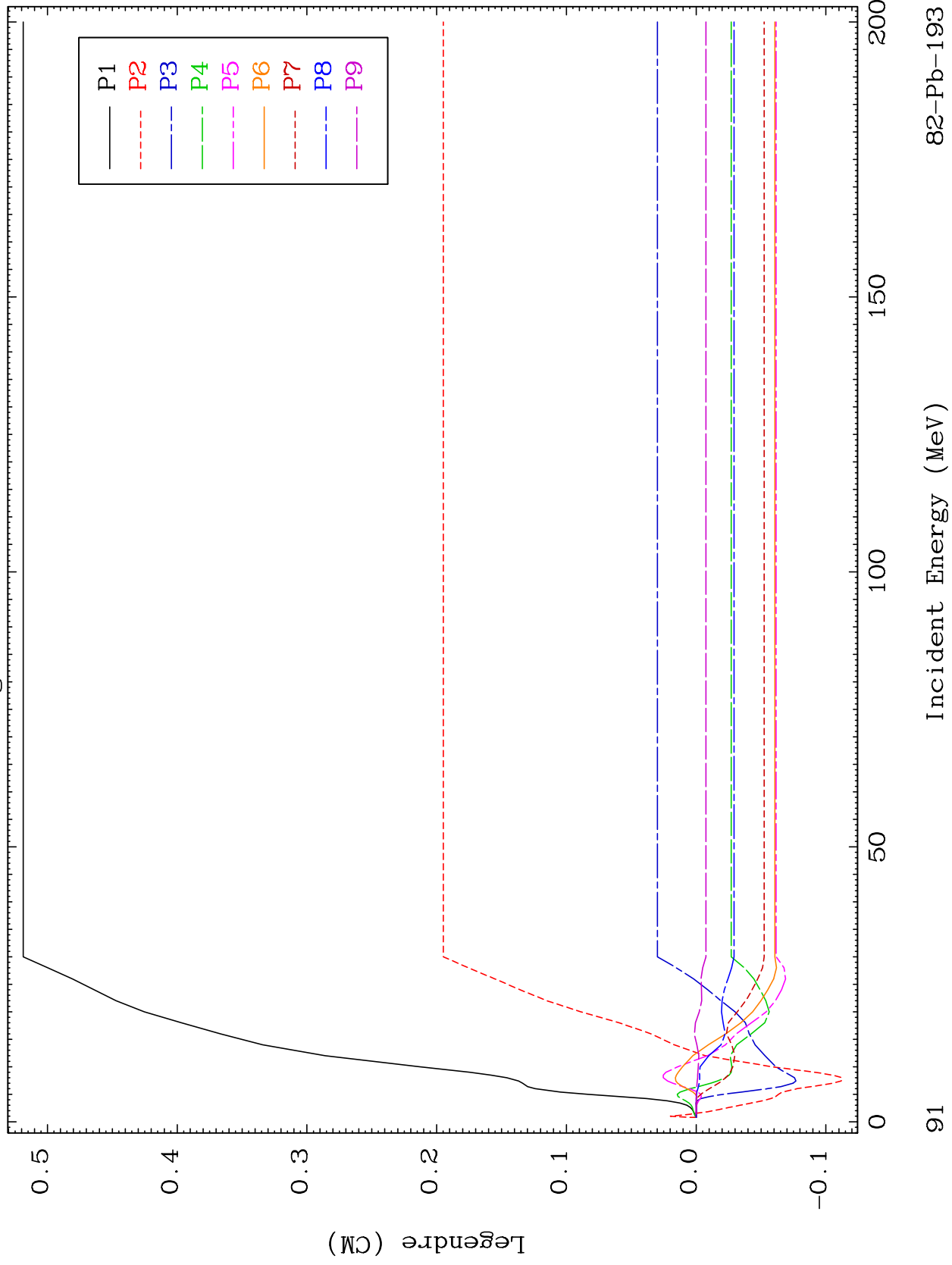
82-Pb-193



MAT 8192

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

82-Pb-193



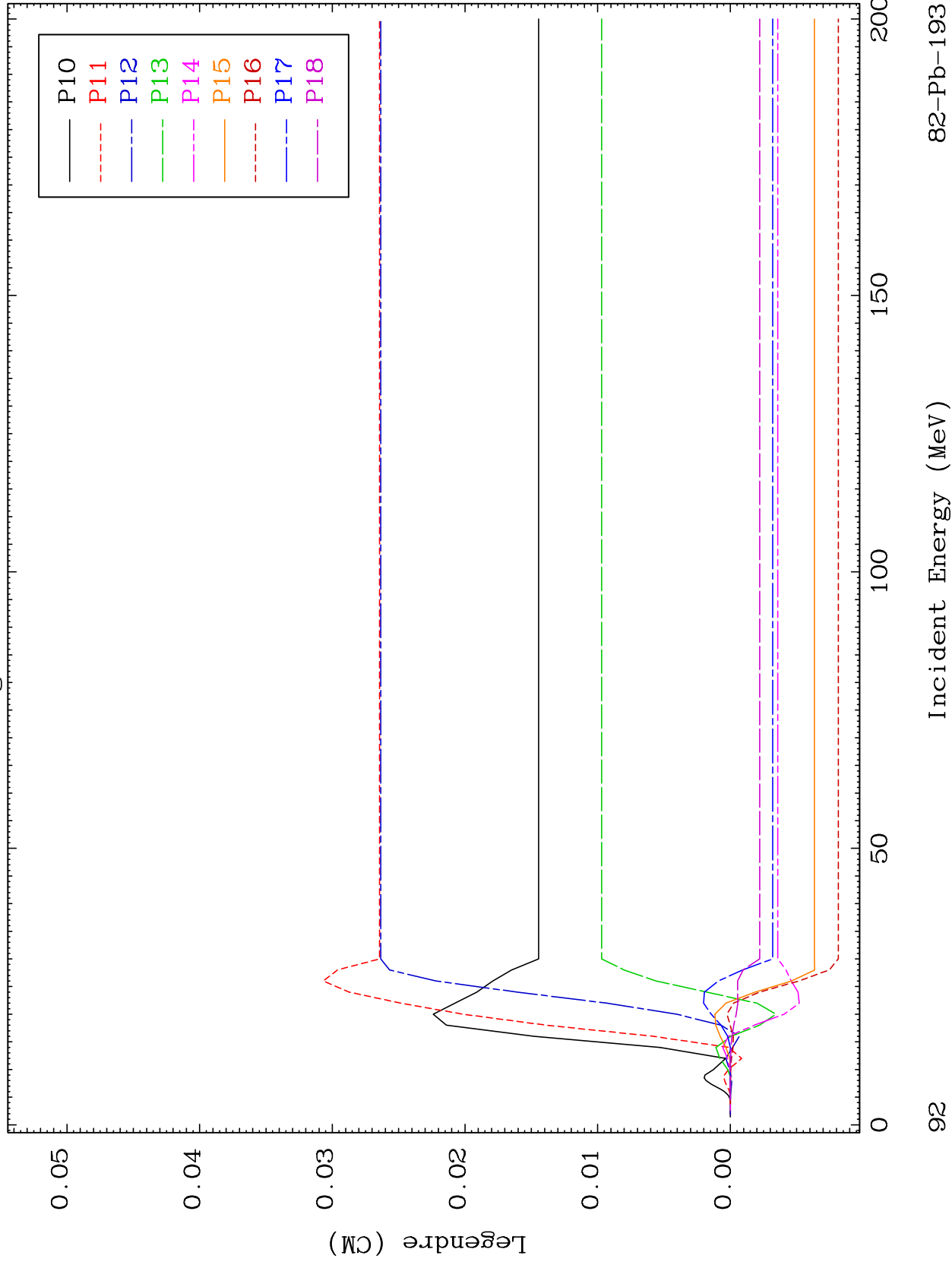
91

82-Pb-193

MAT 8192

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

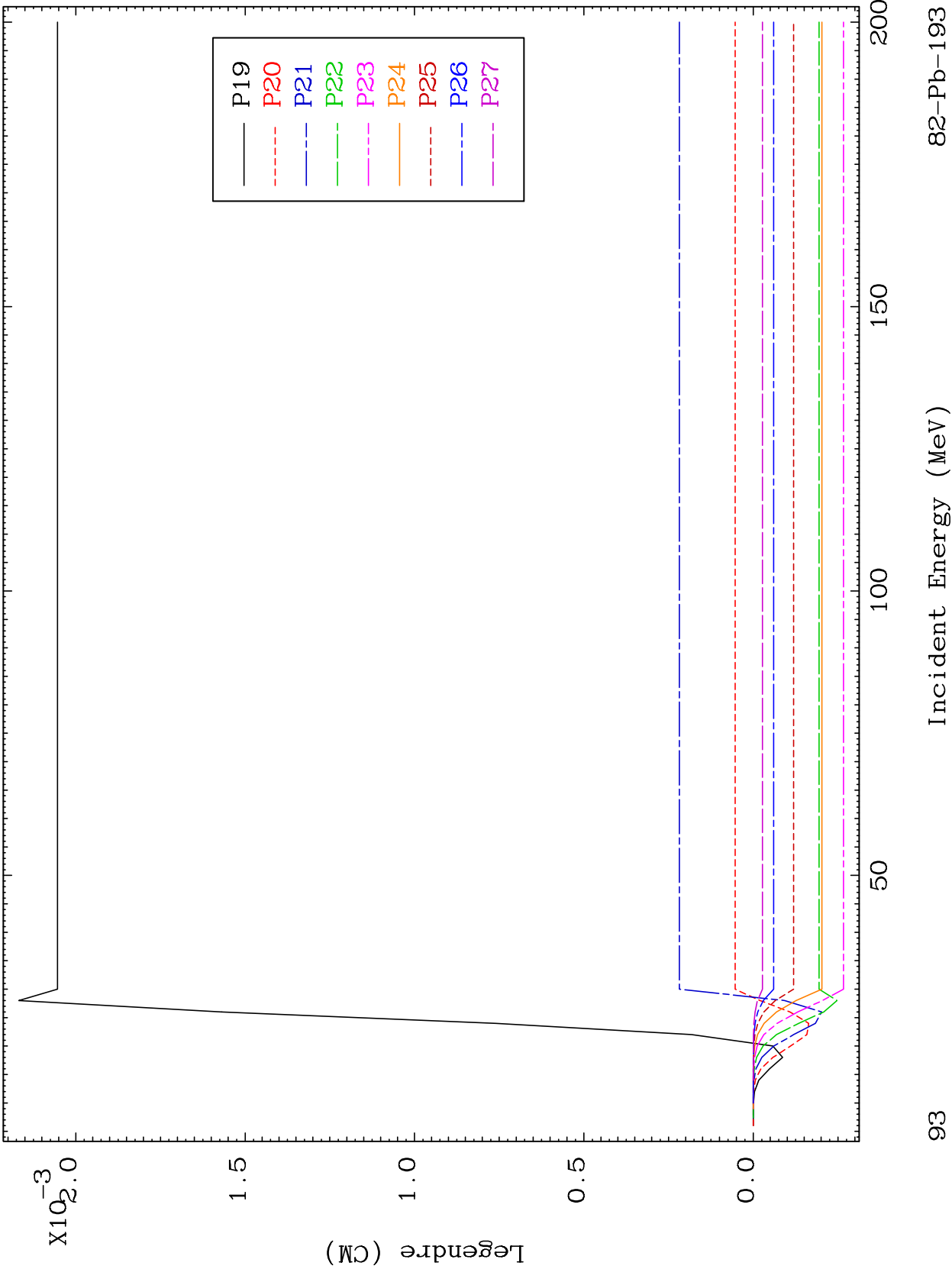
82-Pb-193



82-Pb-193

Incident Energy (MeV)

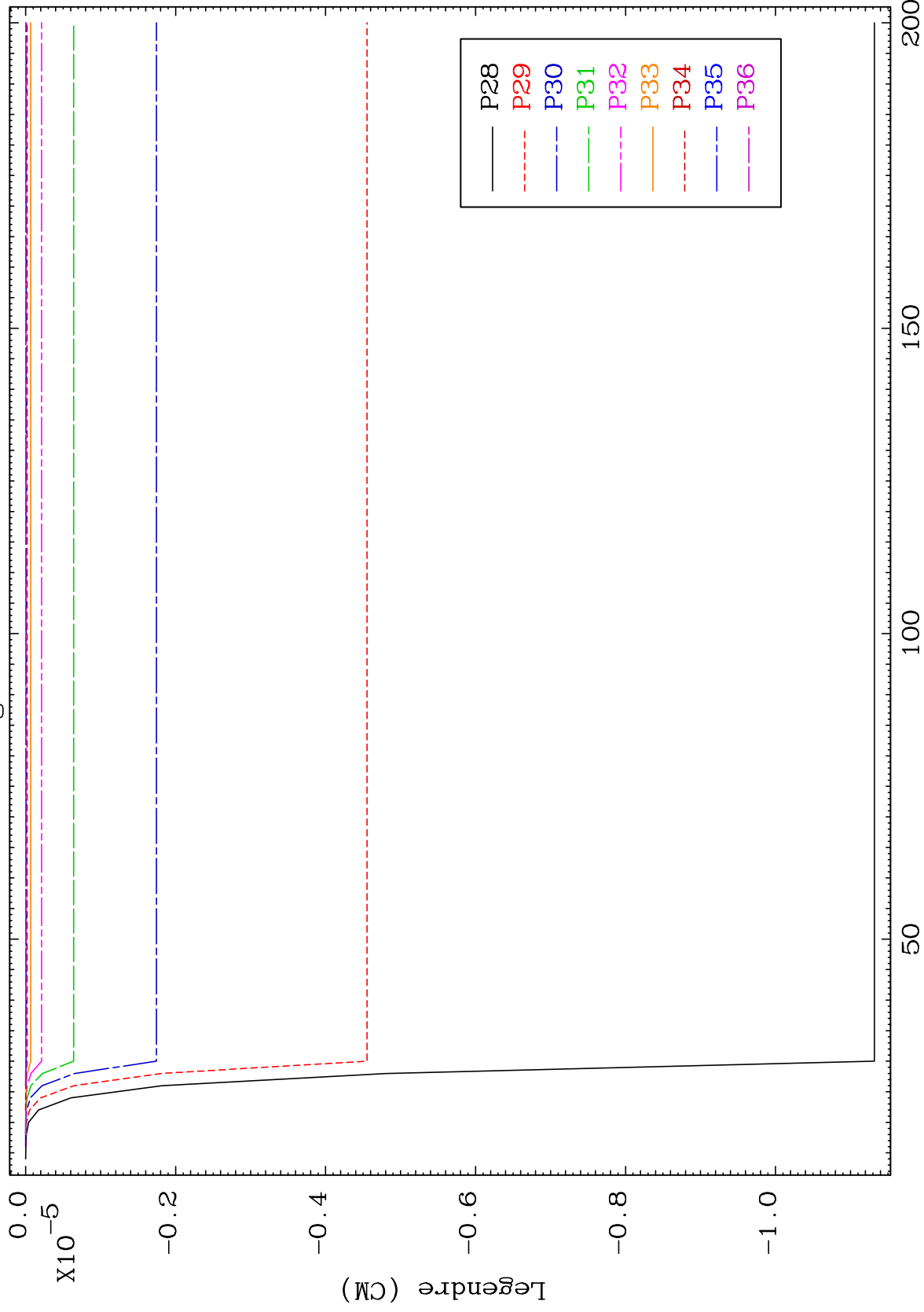
92



MAT 8192

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

82-Pb-193



94

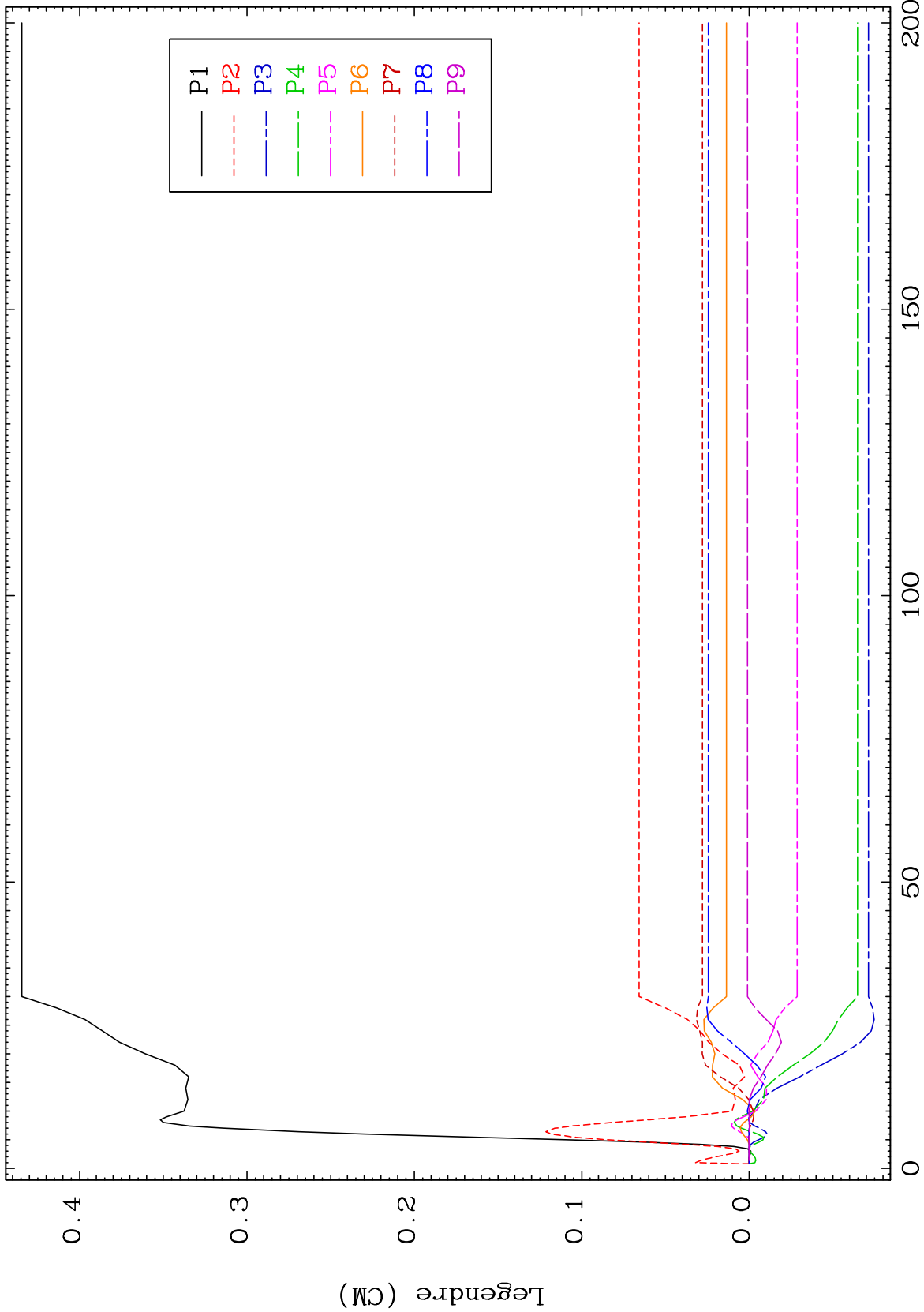
Incident Energy (MeV)

82-Pb-193

MAT 8192

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

82-Pb-193



82-Pb-193

Incident Energy (MeV)

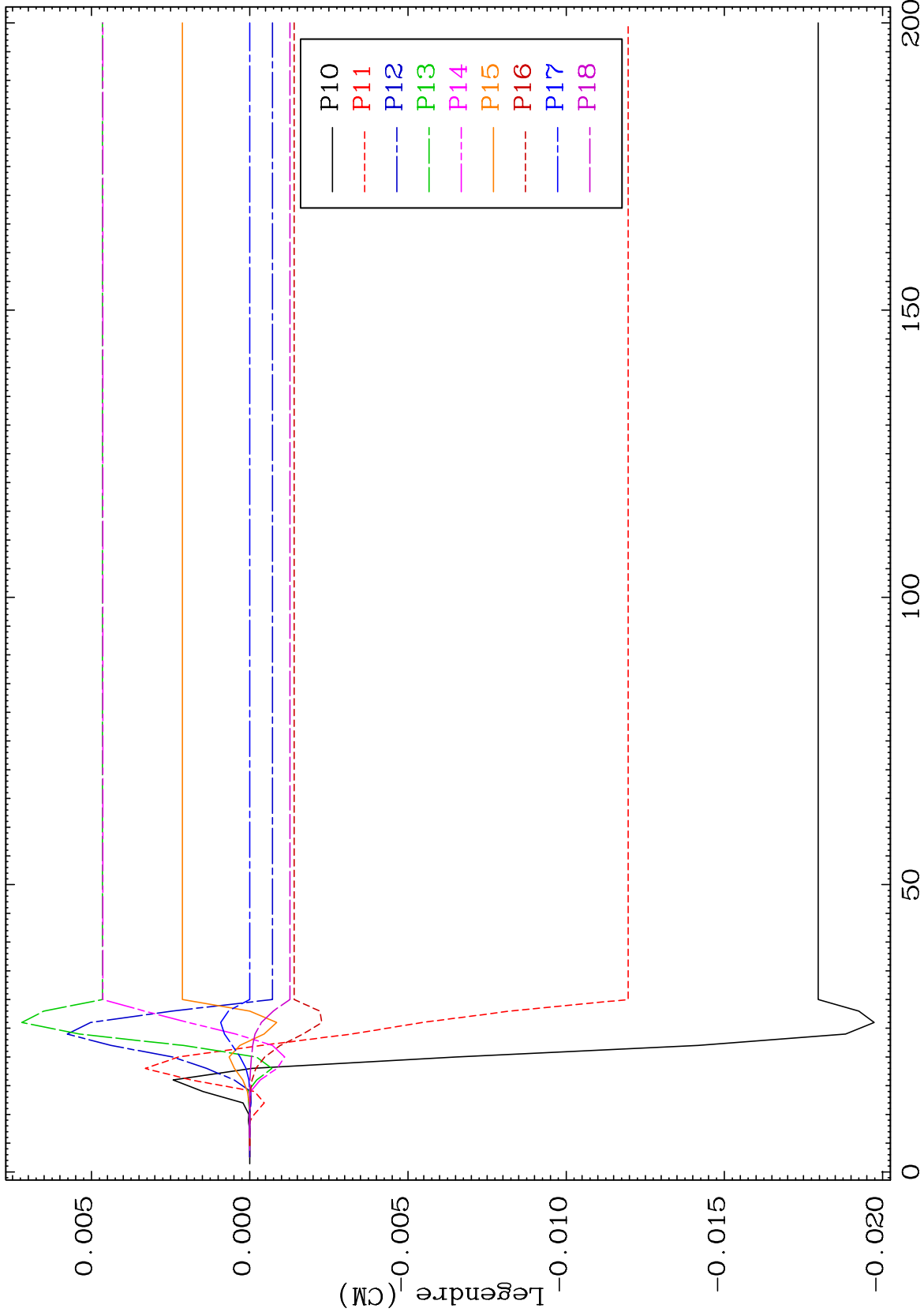
95



MAT 8192

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

82-Pb-193



96

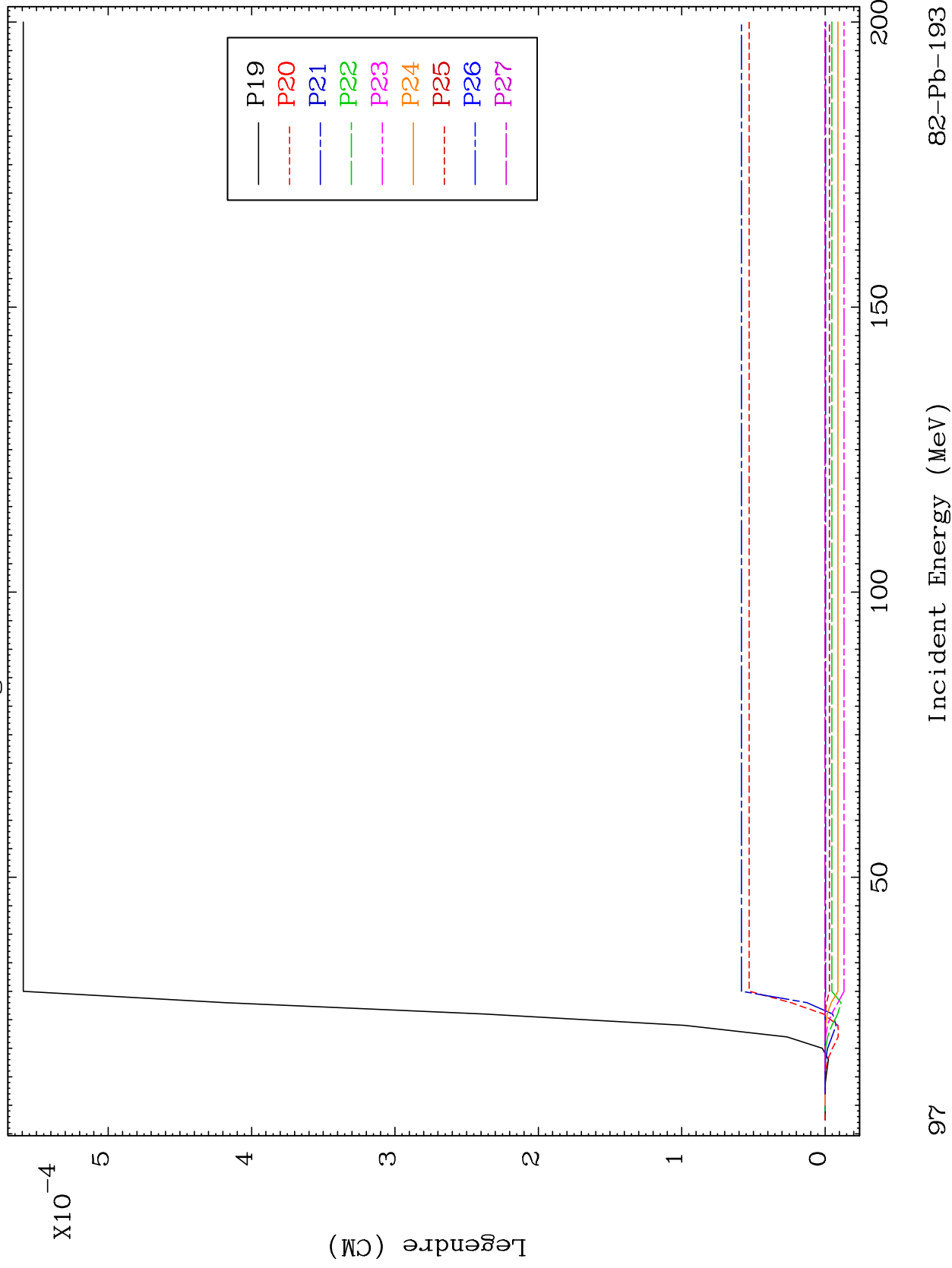
Incident Energy (MeV)

82-Pb-193

MAT 8192

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

82-Pb-193



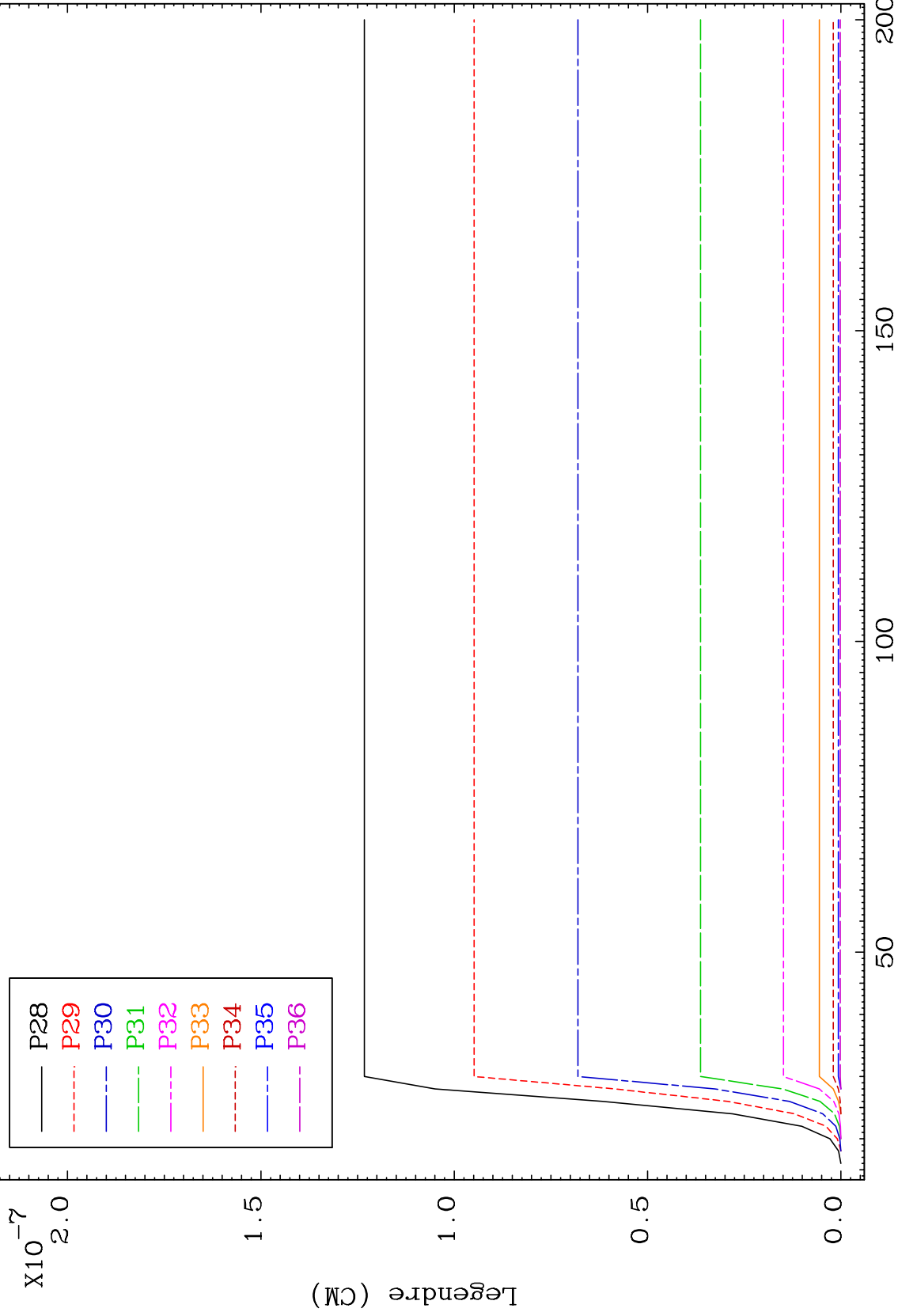
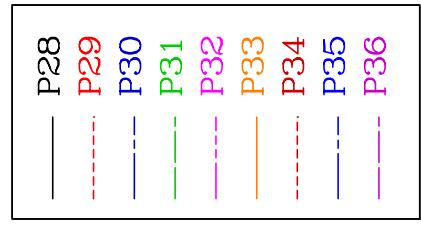
97

82-Pb-193

MAT 8192

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

82-Pb-193



98

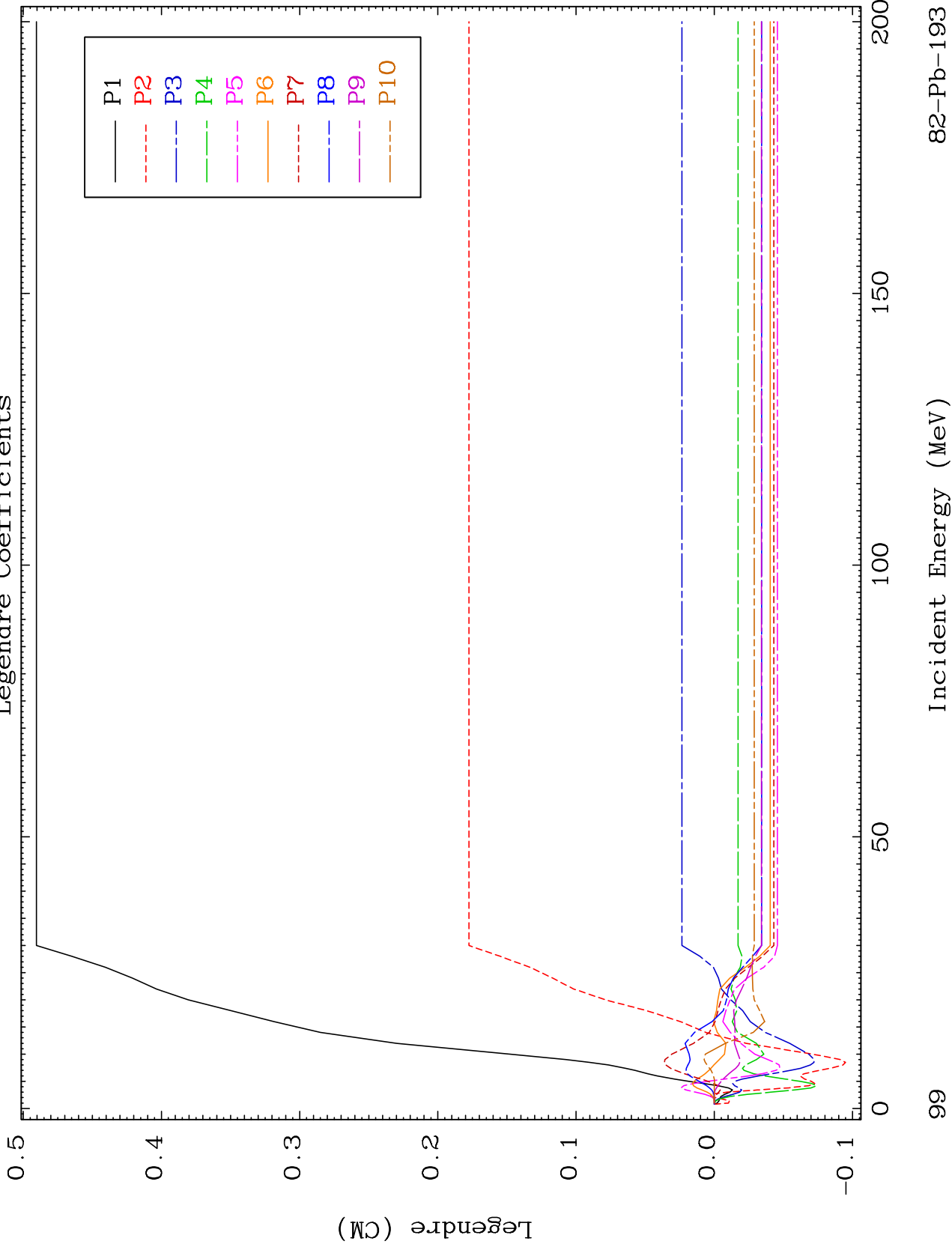
Incident Energy (MeV)

82-Pb-193

MAT 8192

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

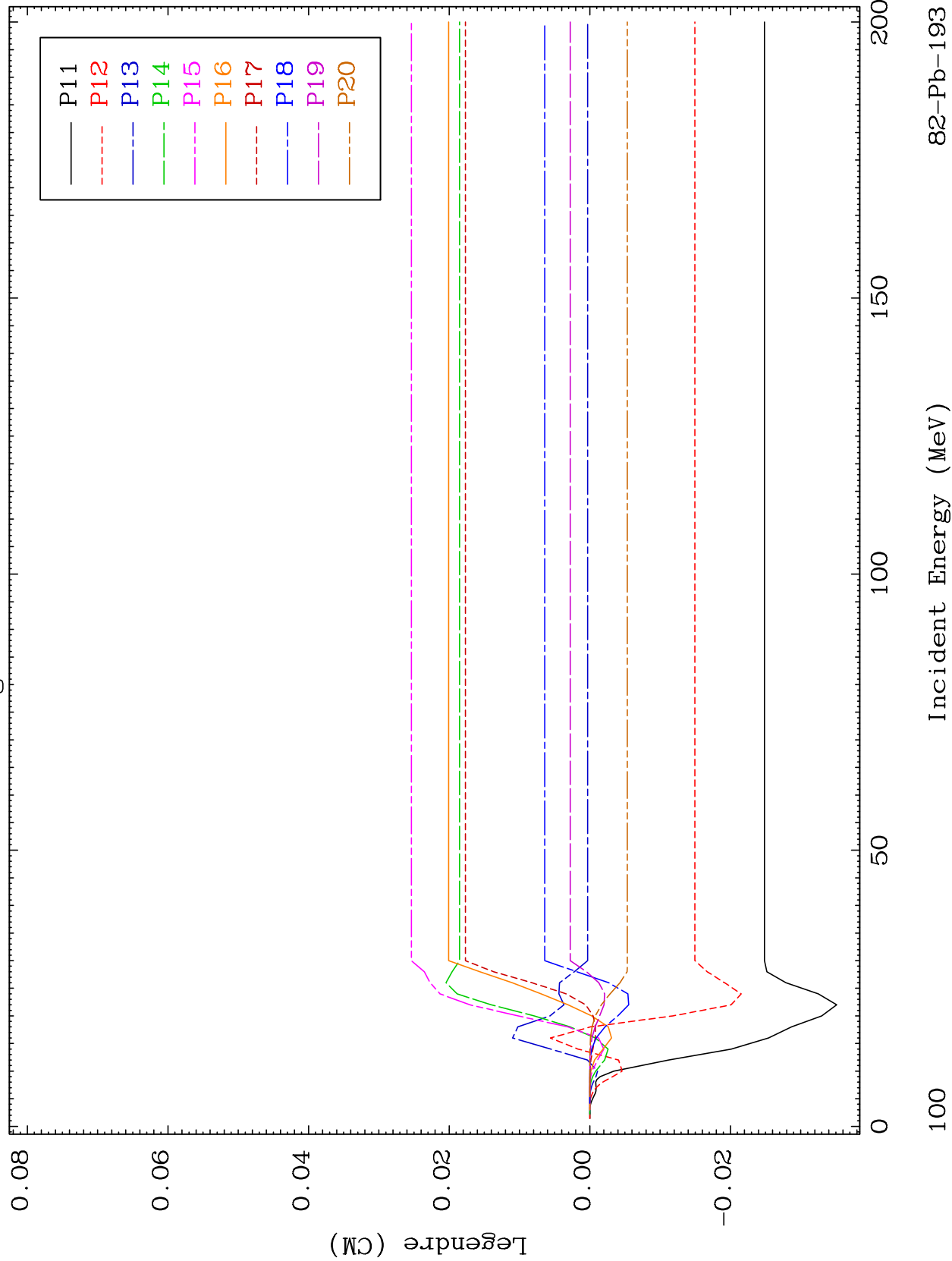
82-Pb-193



MAT 8192

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

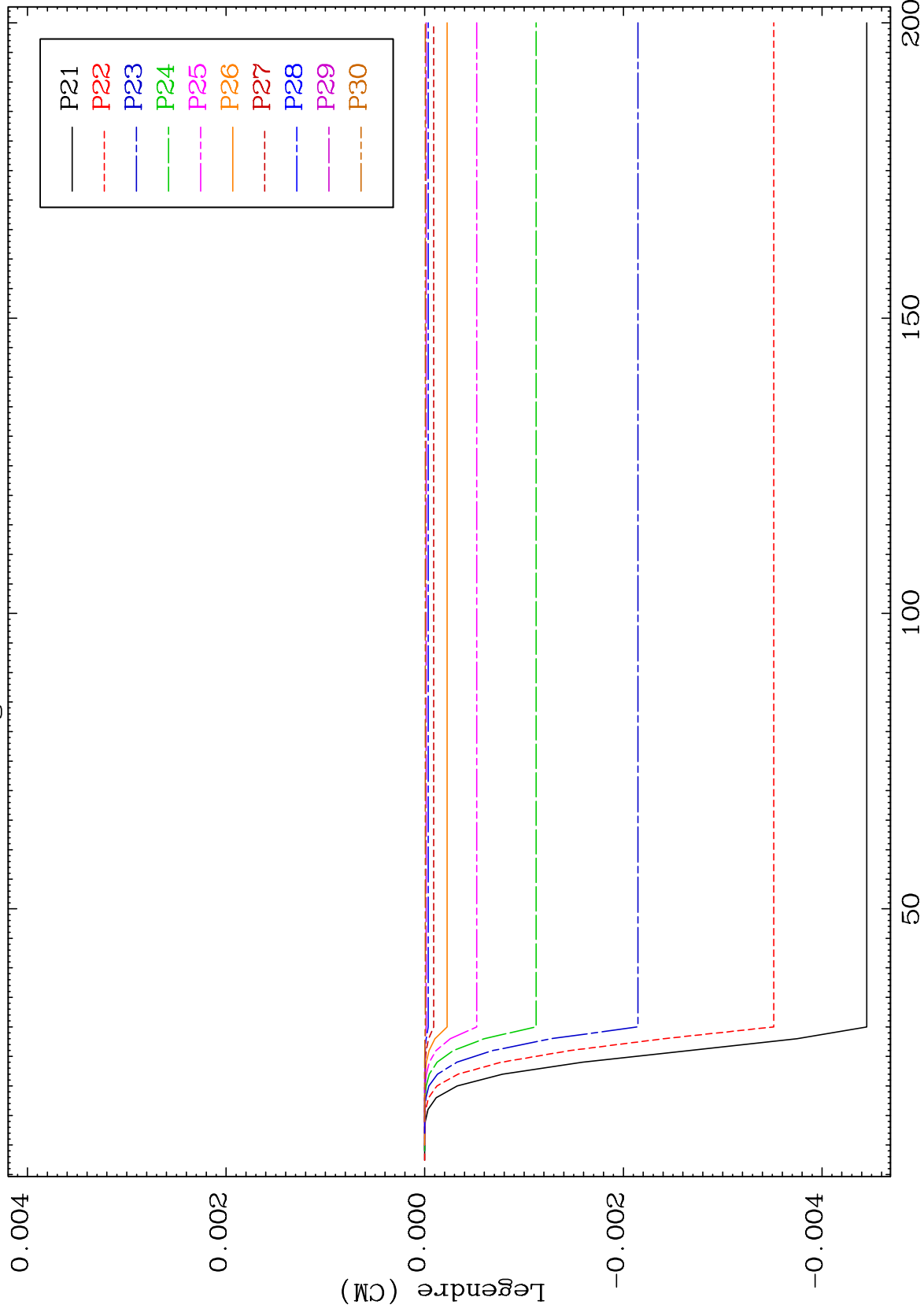
82-Pb-193



MAT 8192

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

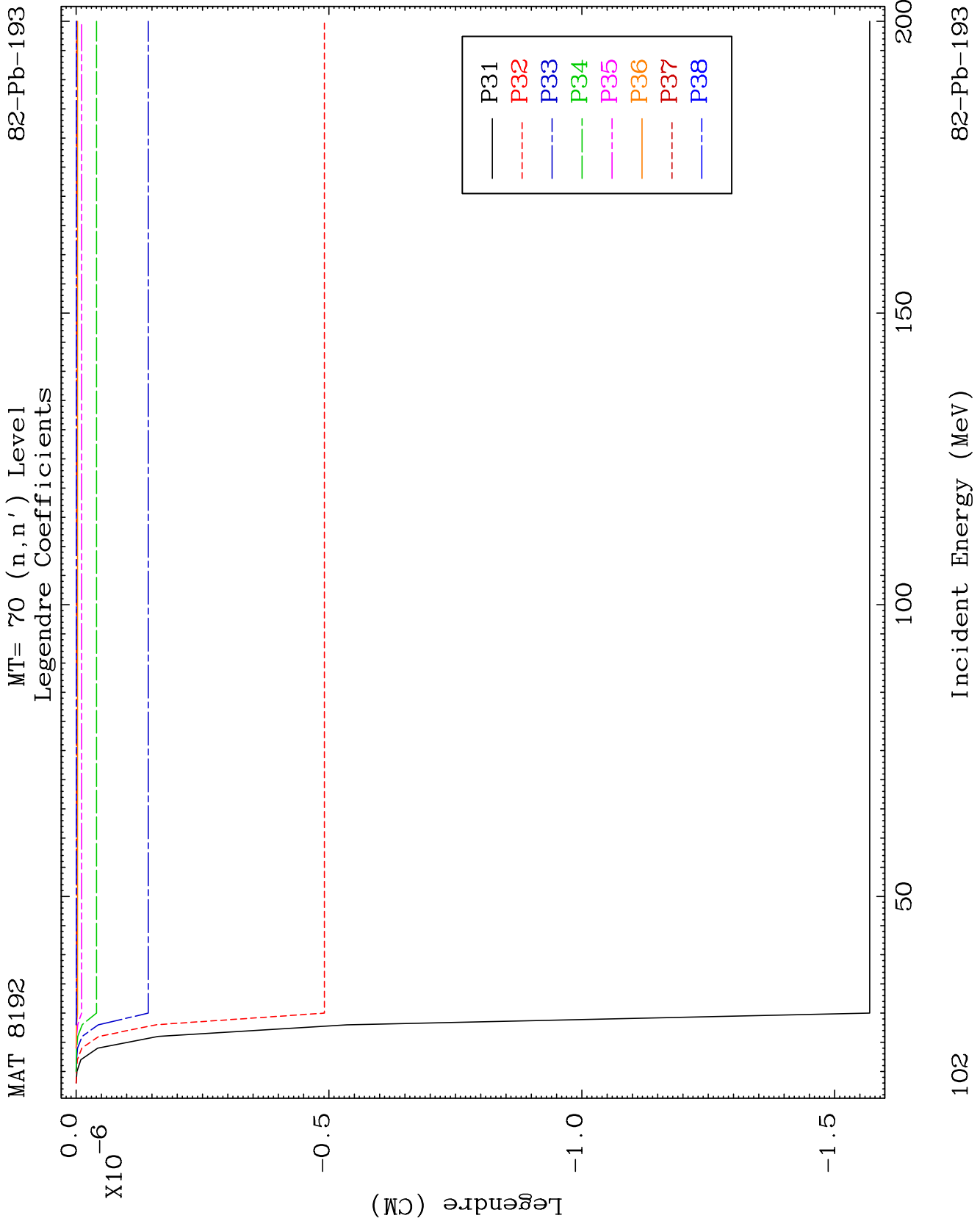
82-Pb-193



101

Incident Energy (MeV)

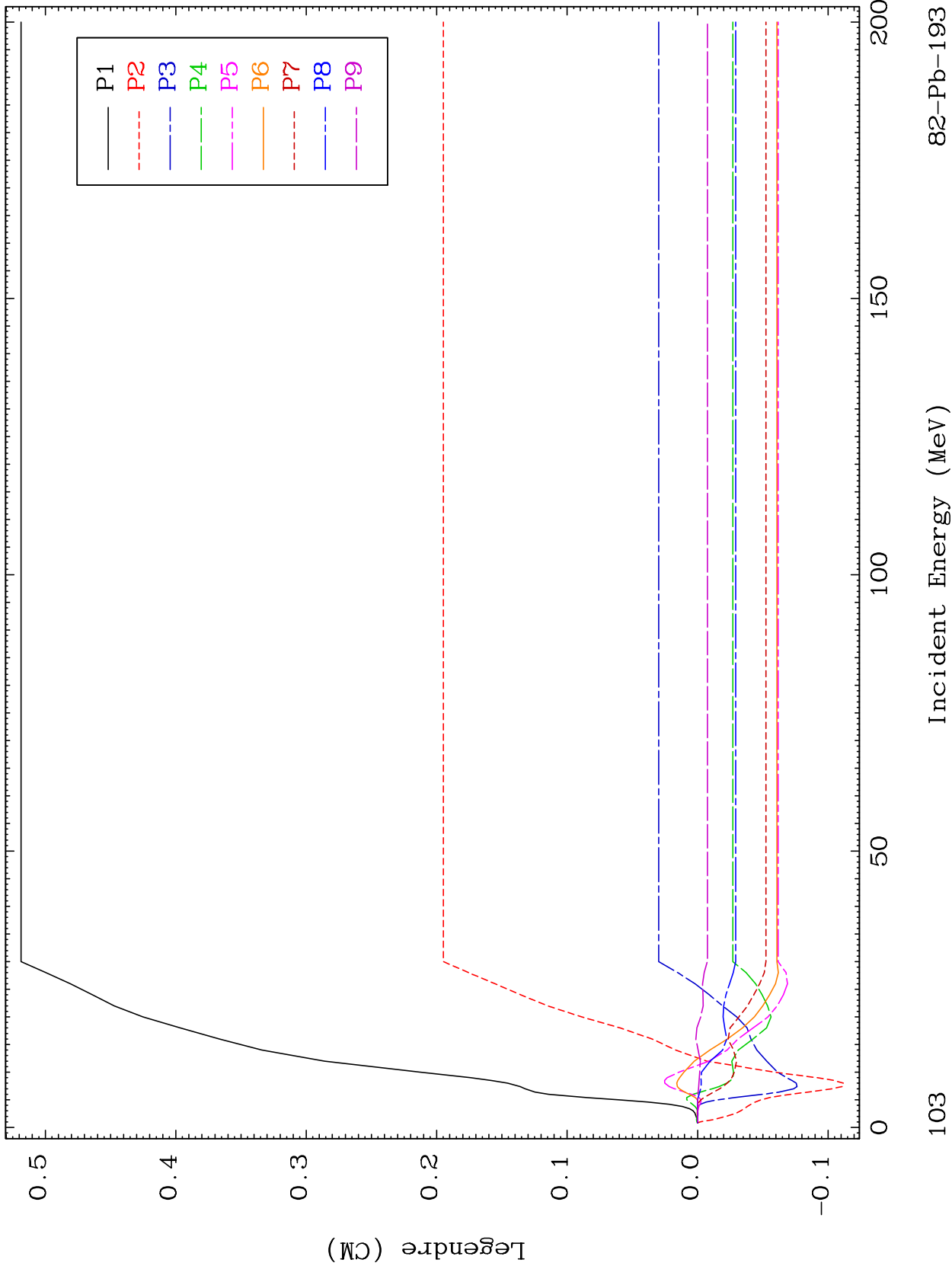
82-Pb-193



MAT 8192

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

82-Pb-193



82-Pb-193

Incident Energy (MeV)

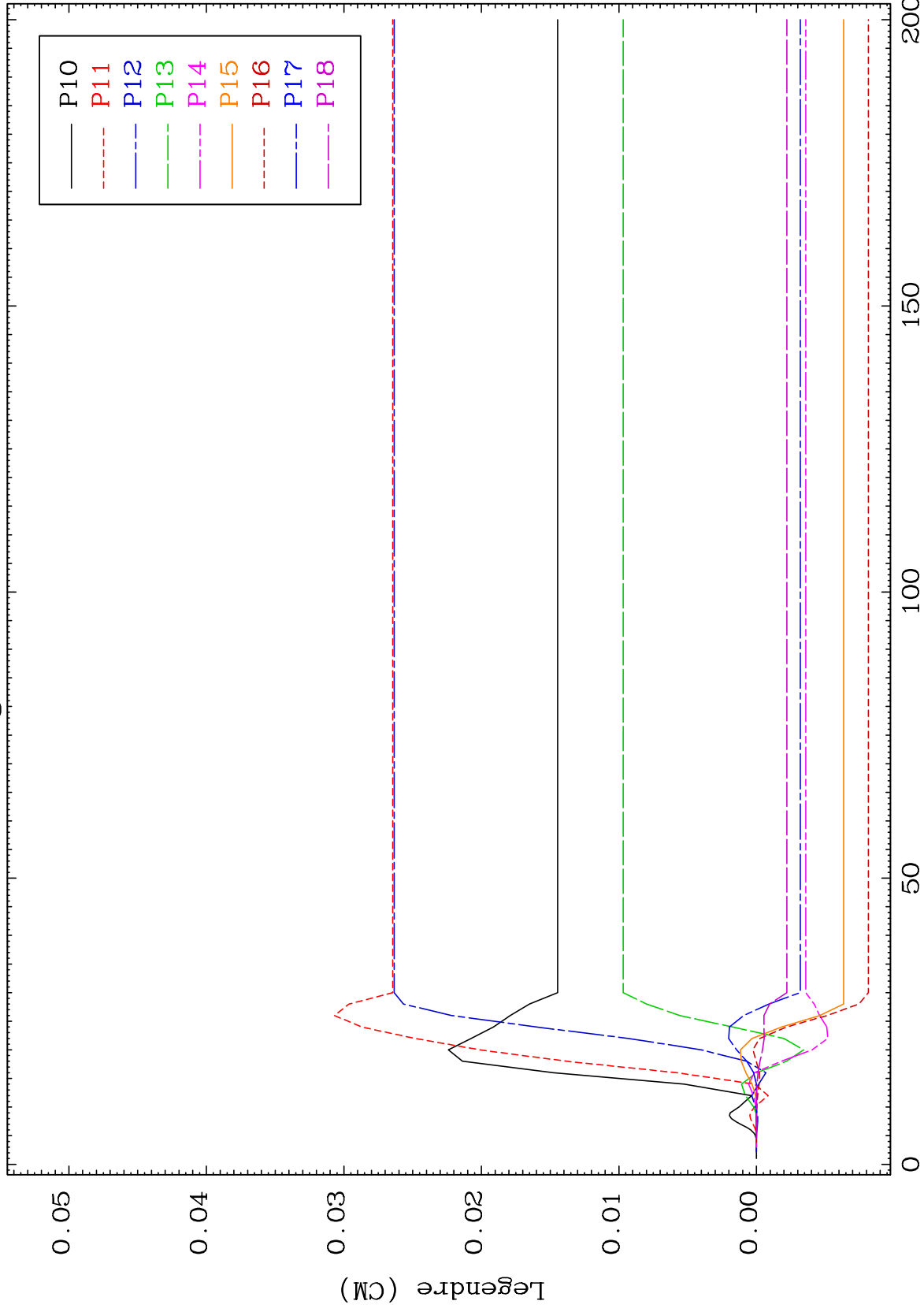
103



MAT 8192

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

82-Pb-193



104

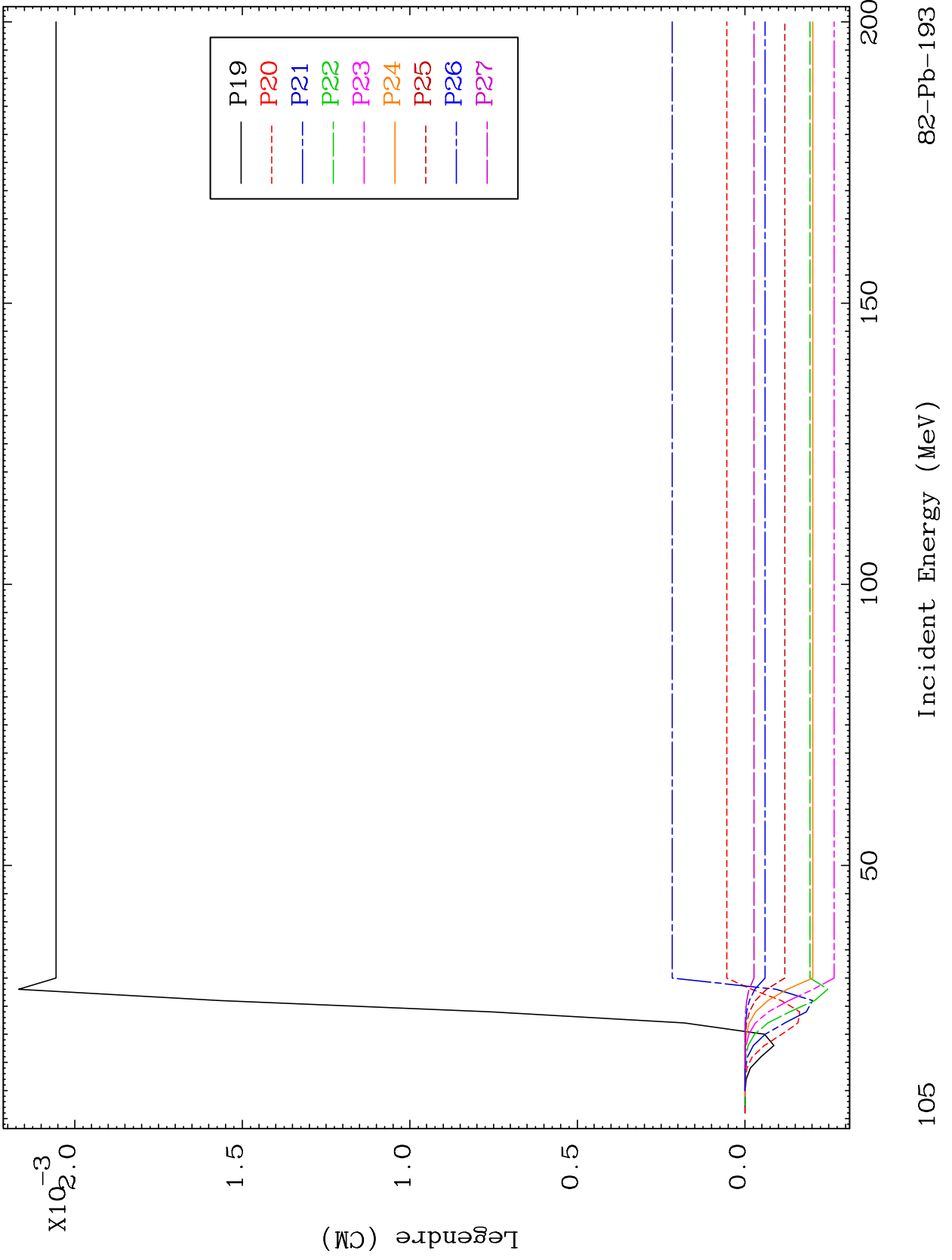
Incident Energy (MeV)

82-Pb-193

MAT 8192

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

82-Pb-193



105

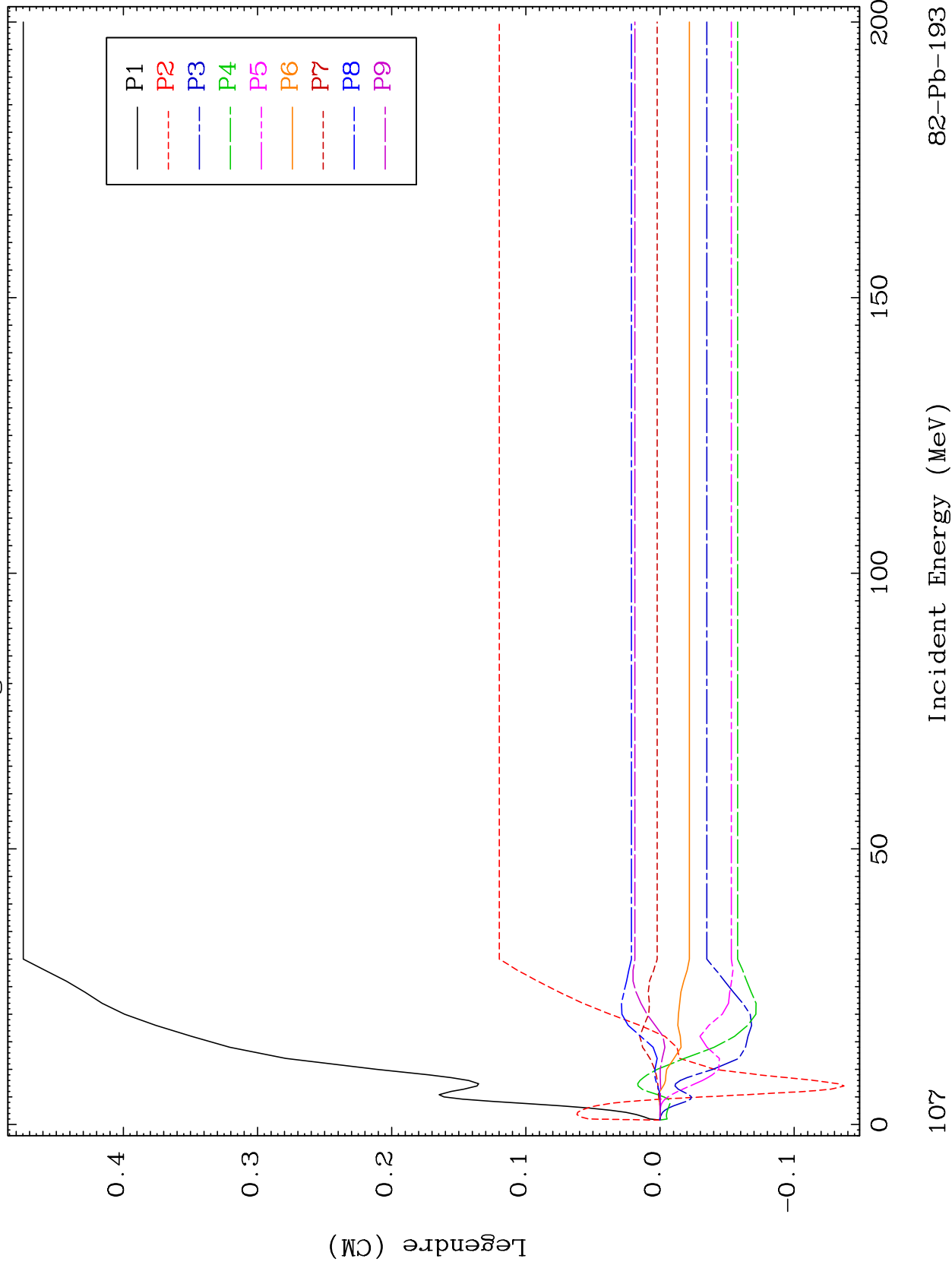
82-Pb-193



MAT 8192

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

82-Pb-193



82-Pb-193

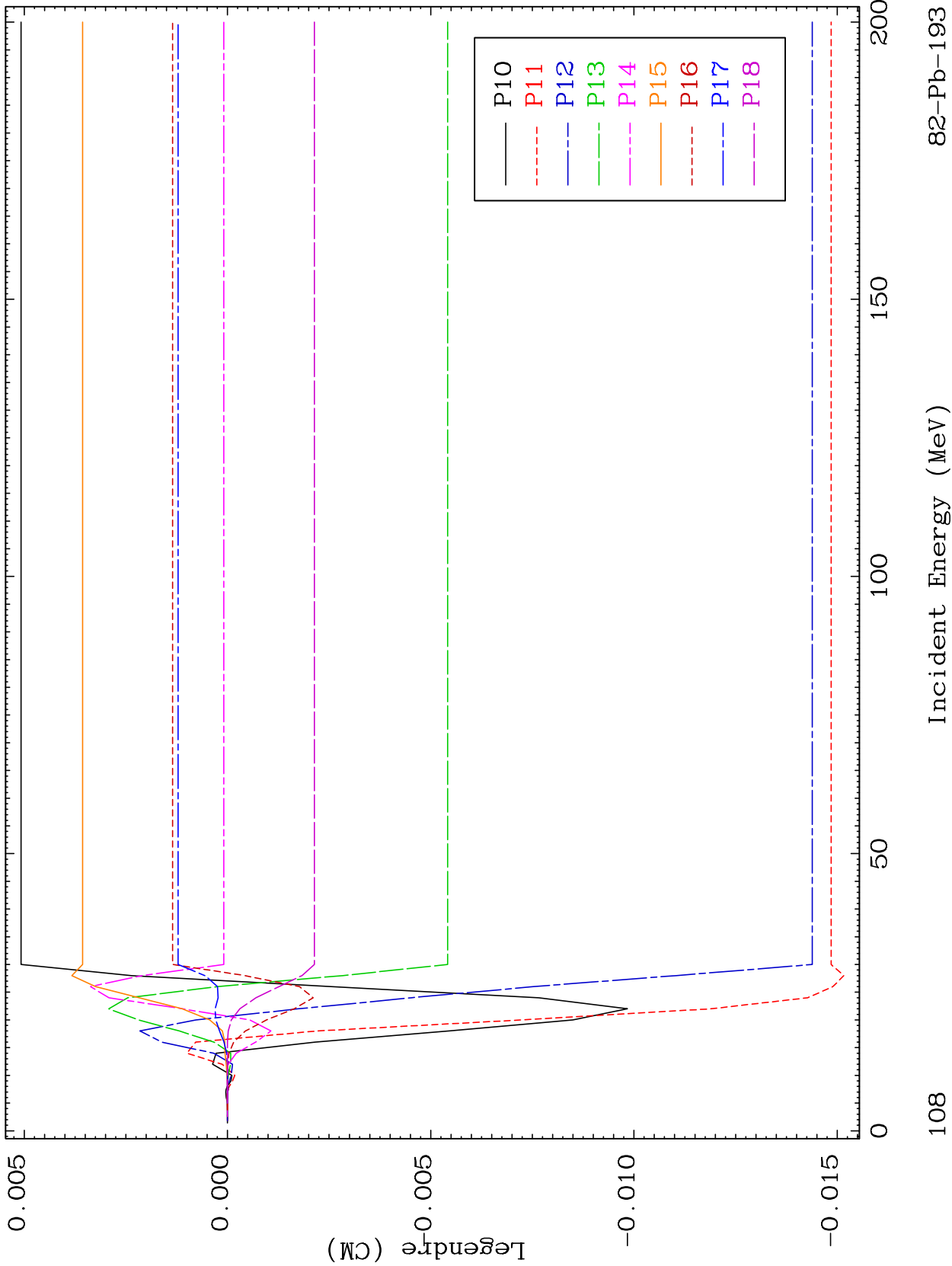
Incident Energy (MeV)

107

MAT 8192

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

82-Pb-193

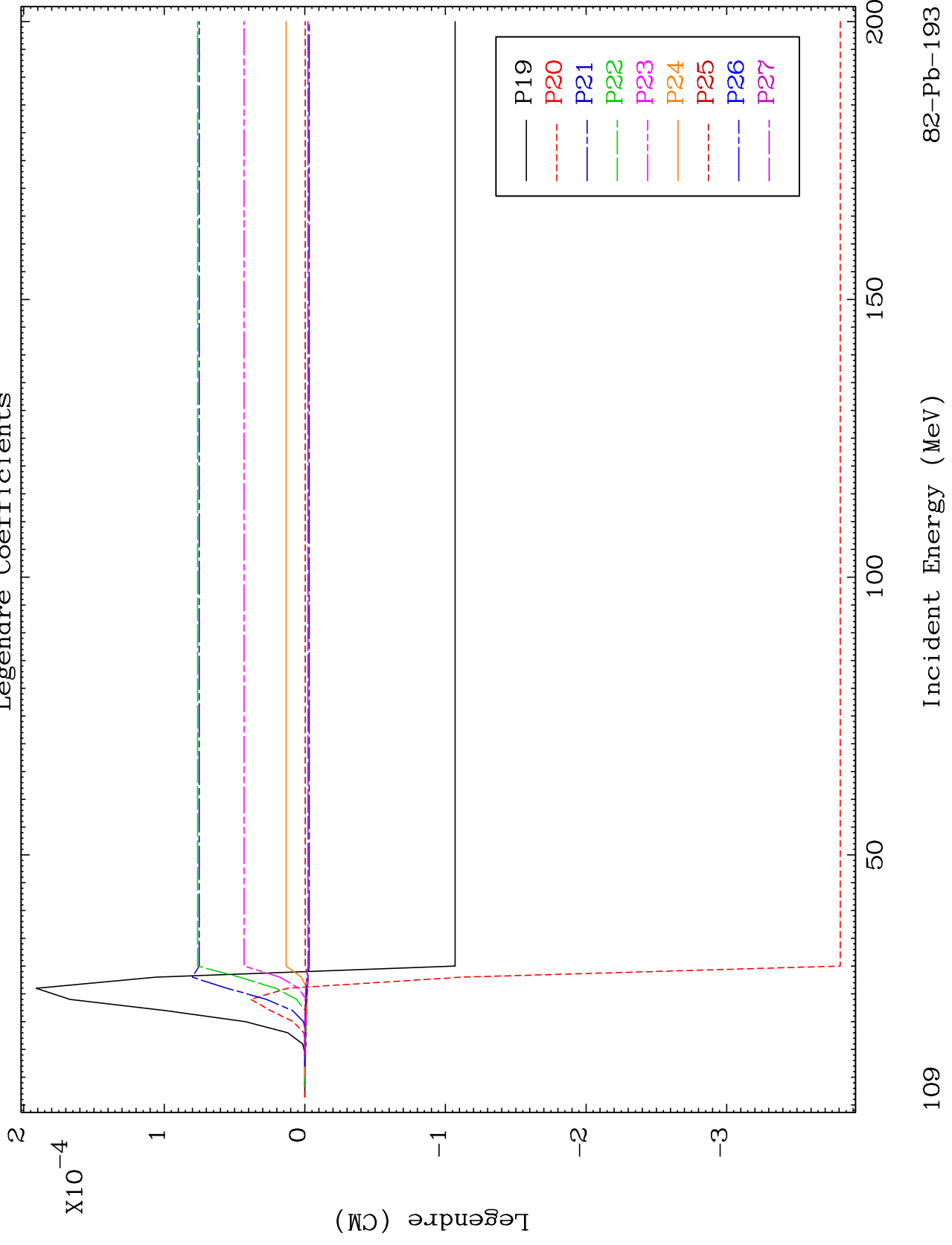


108

MAT 8192

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

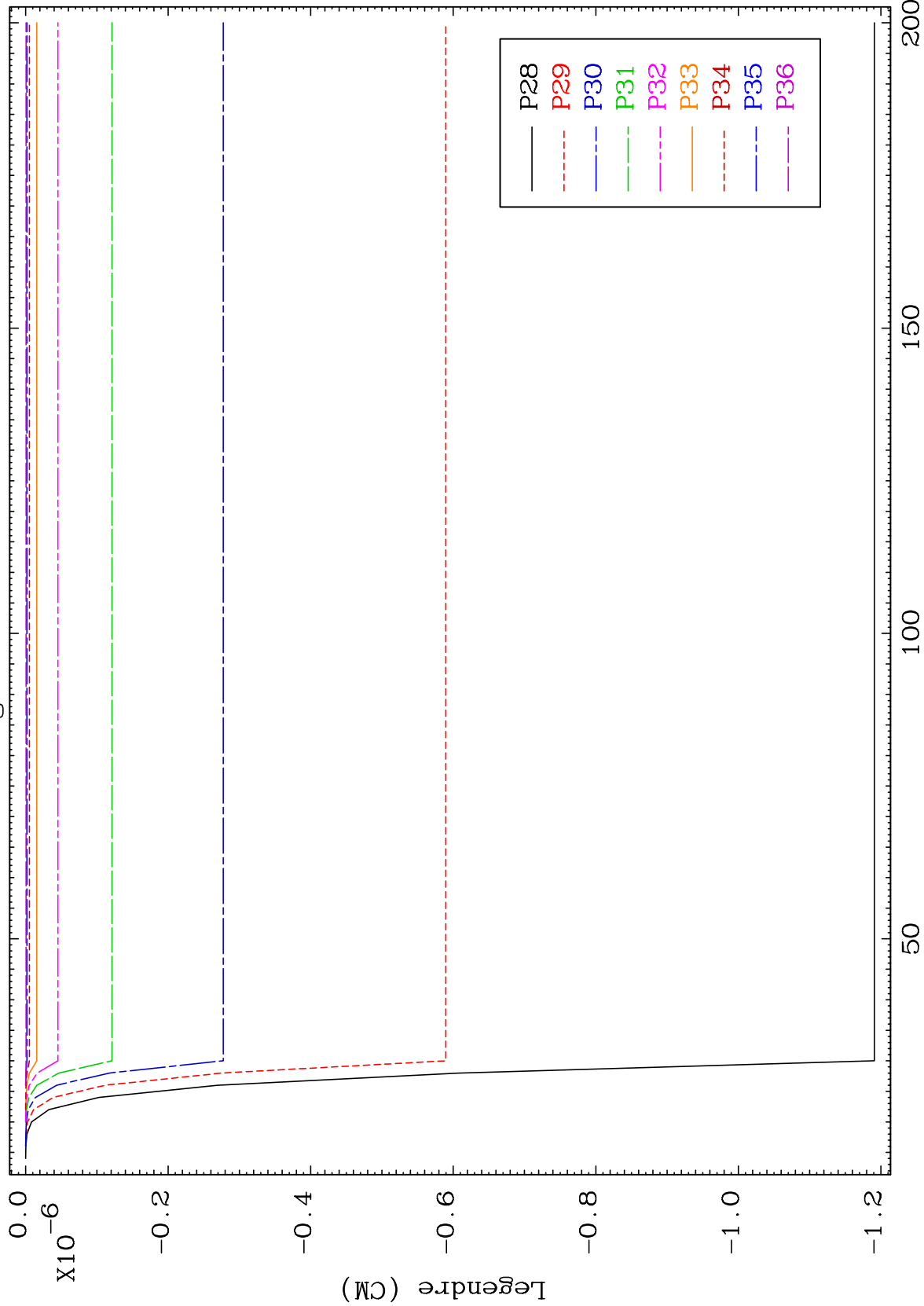
82-Pb-193



MAT 8192

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

82-Pb-193



82-Pb-193

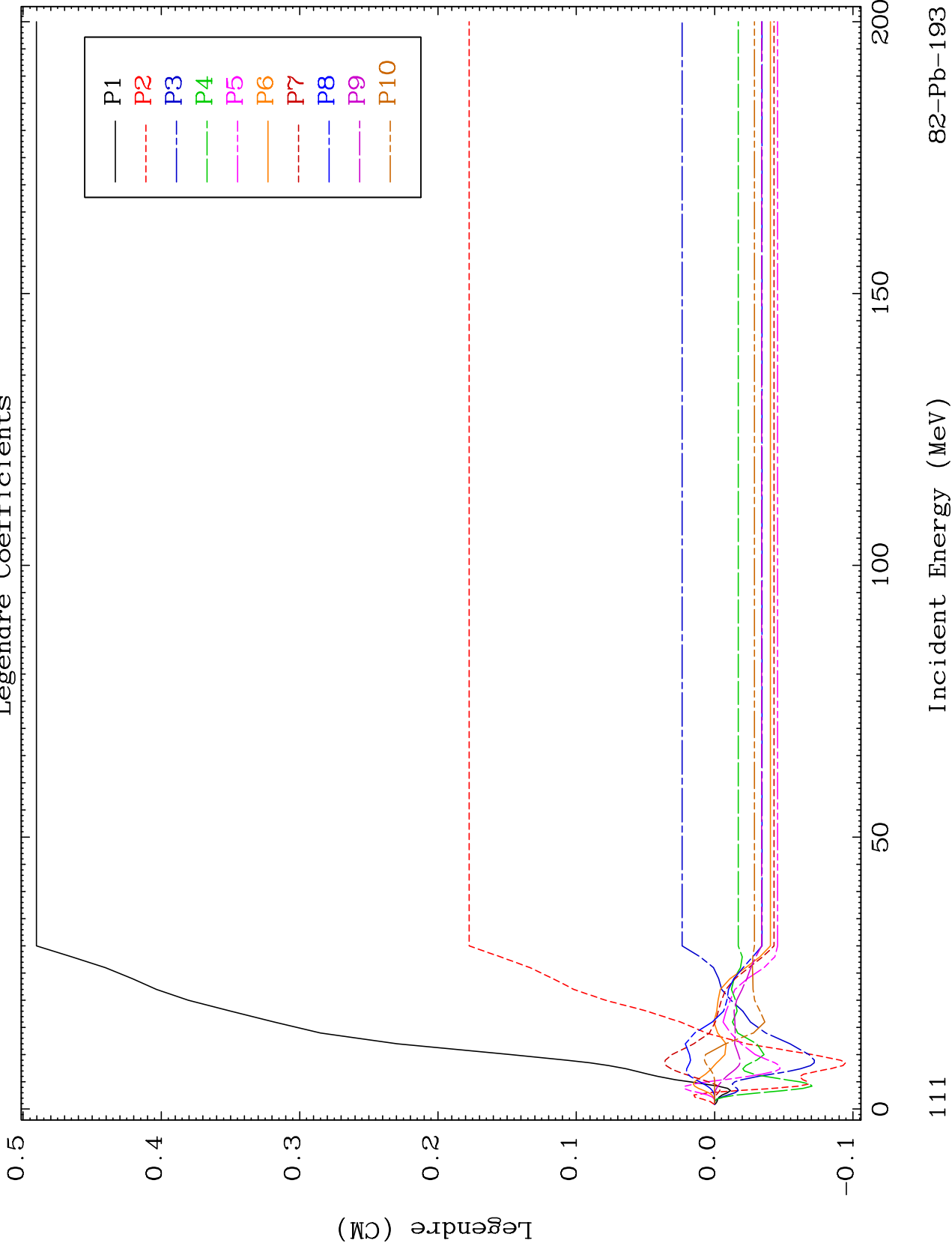
Incident Energy (MeV)

110

MAT 8192

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

82-Pb-193



111

Incident Energy (MeV)

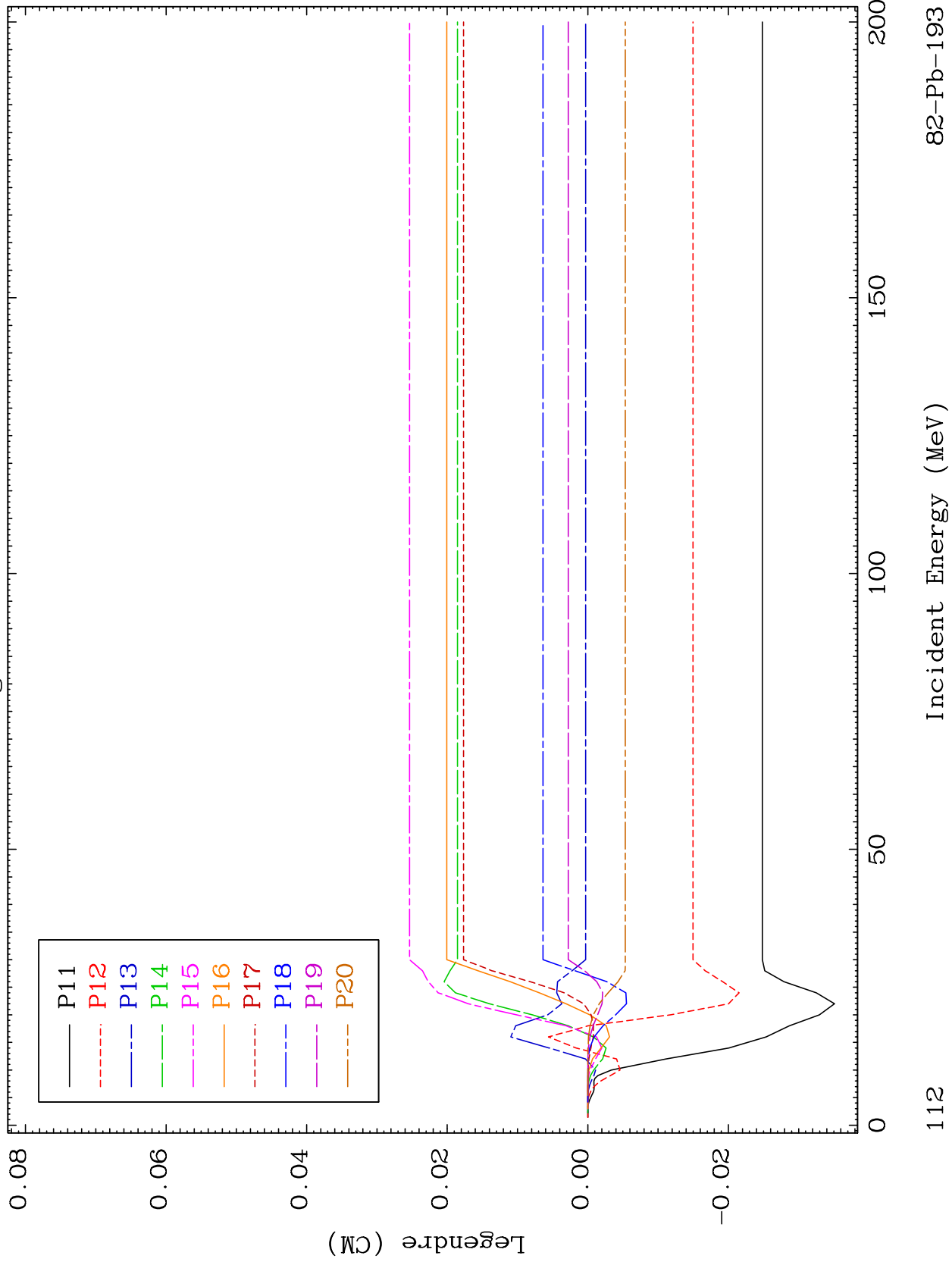
82-Pb-193



MAT 8192

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

82-Pb-193



82-Pb-193

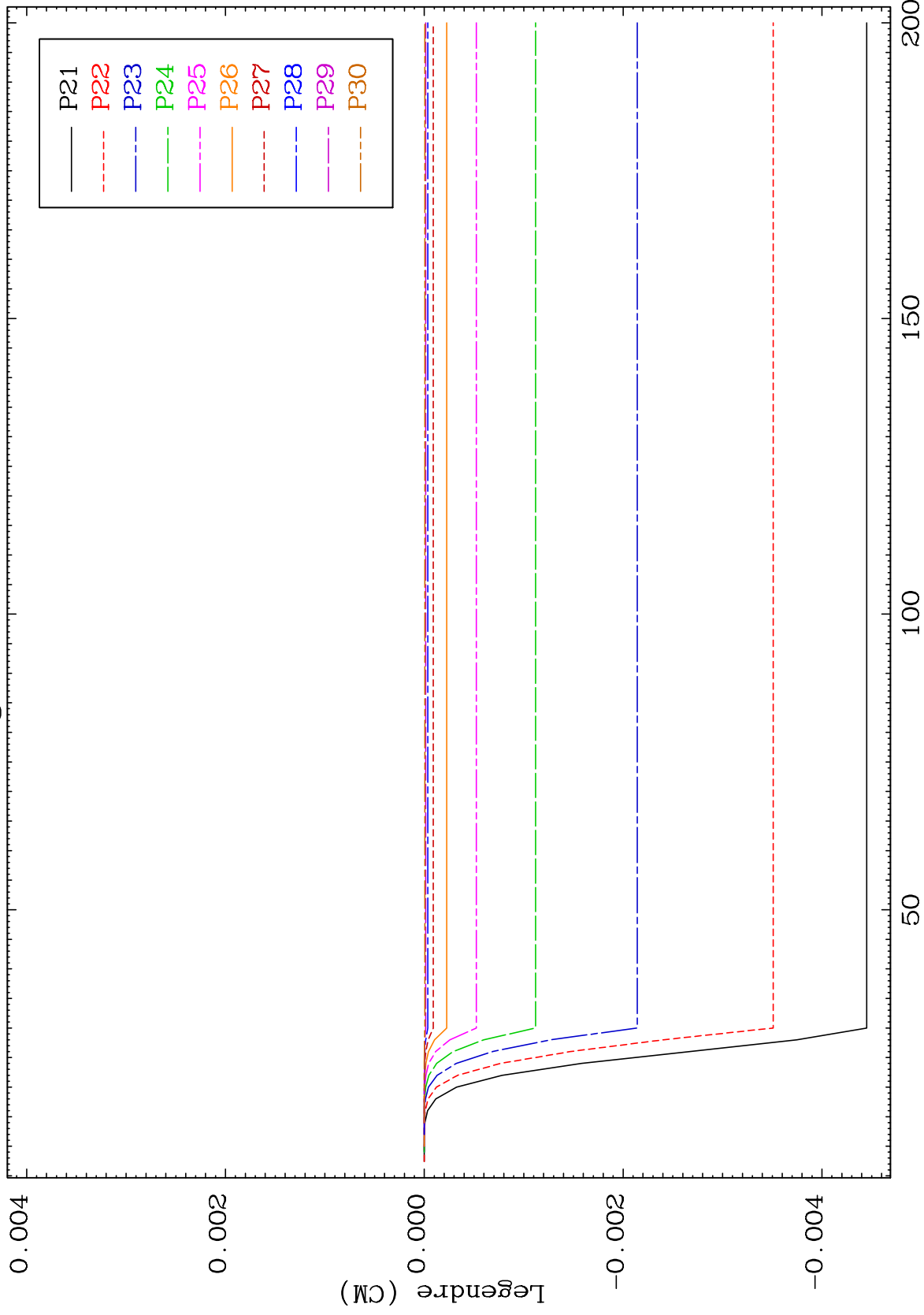
Incident Energy (MeV)

112

MAT 8192

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

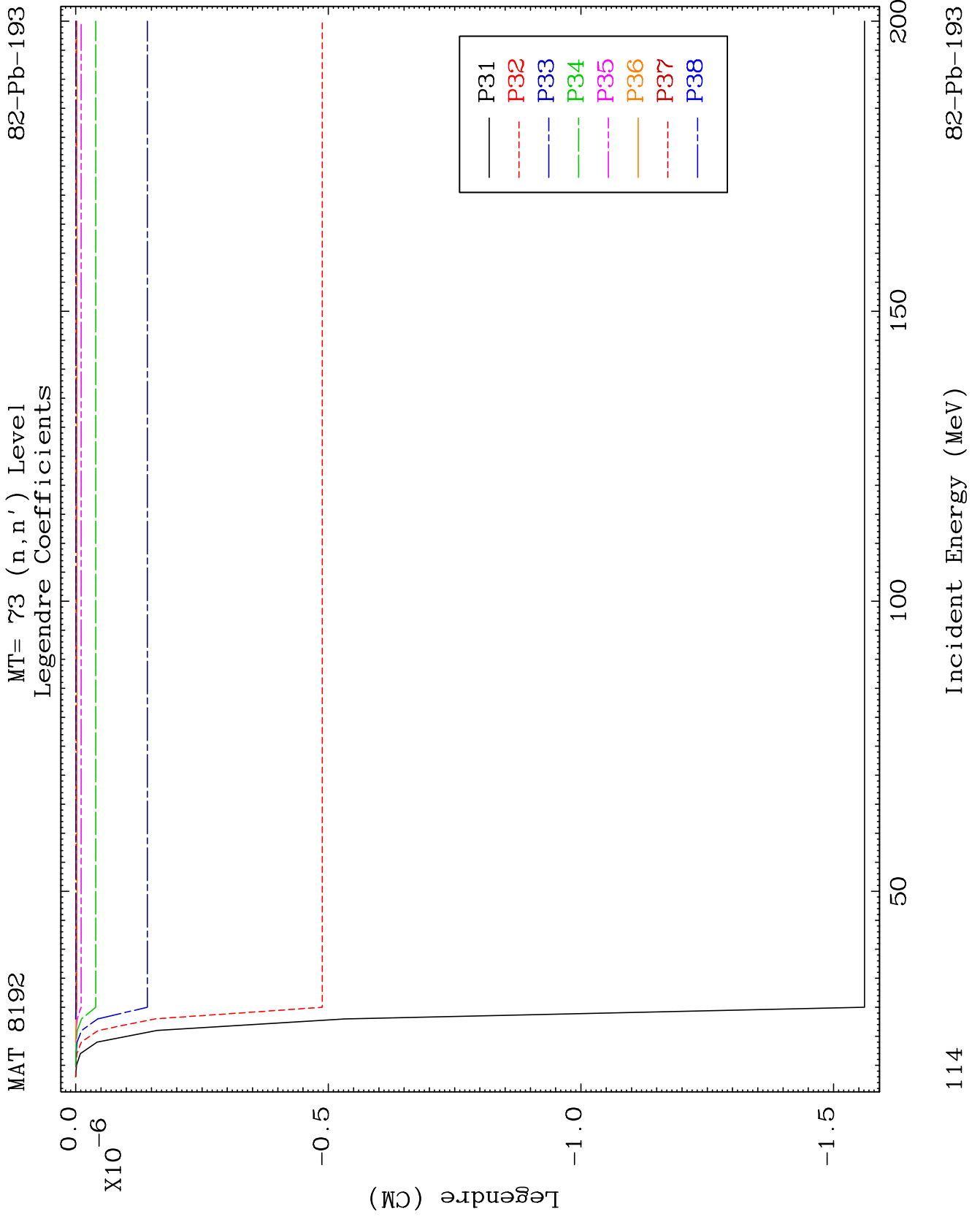
82-Pb-193



113

Incident Energy (MeV)

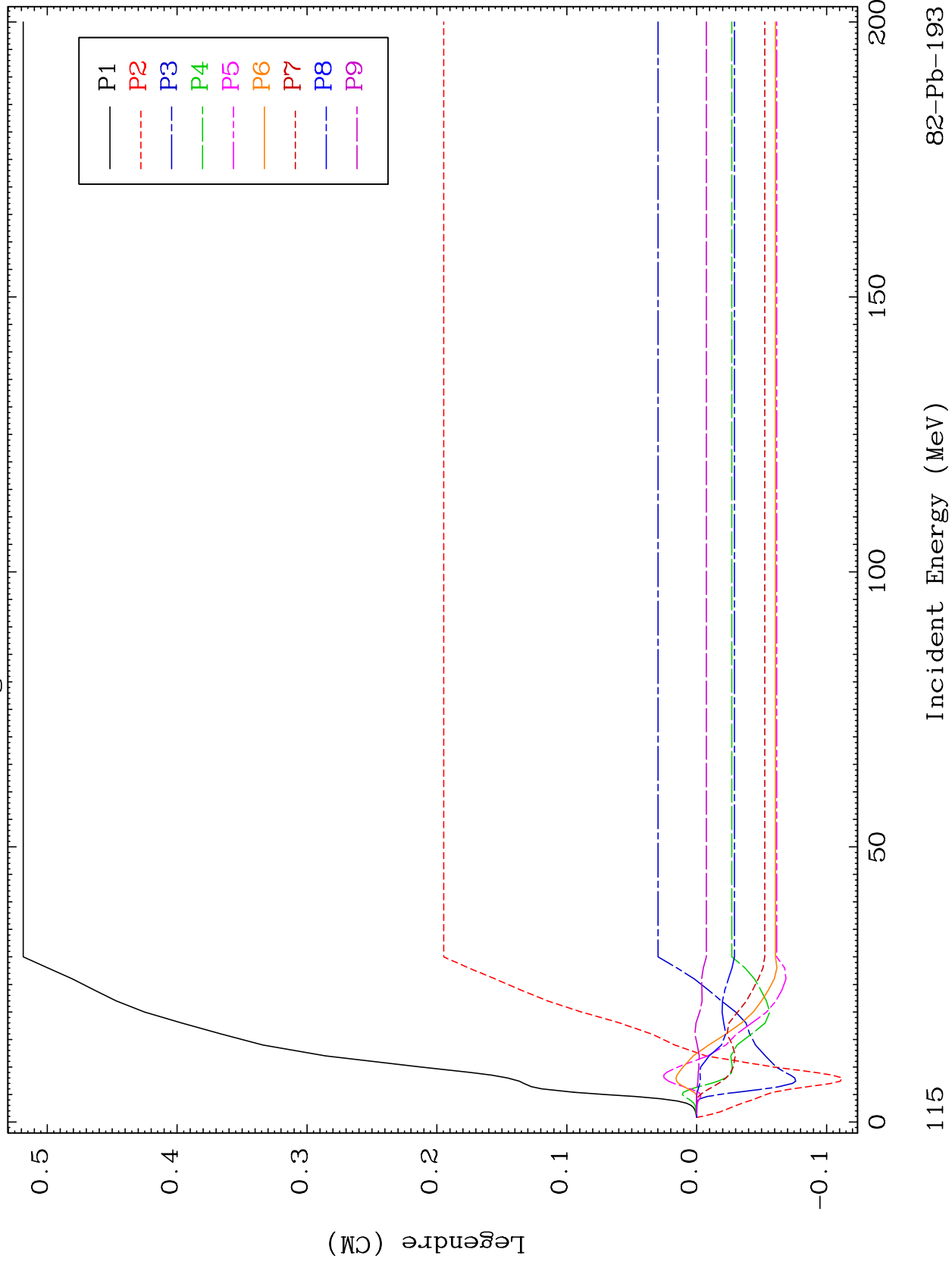
82-Pb-193



MAT 8192

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

82-Pb-193



82-Pb-193

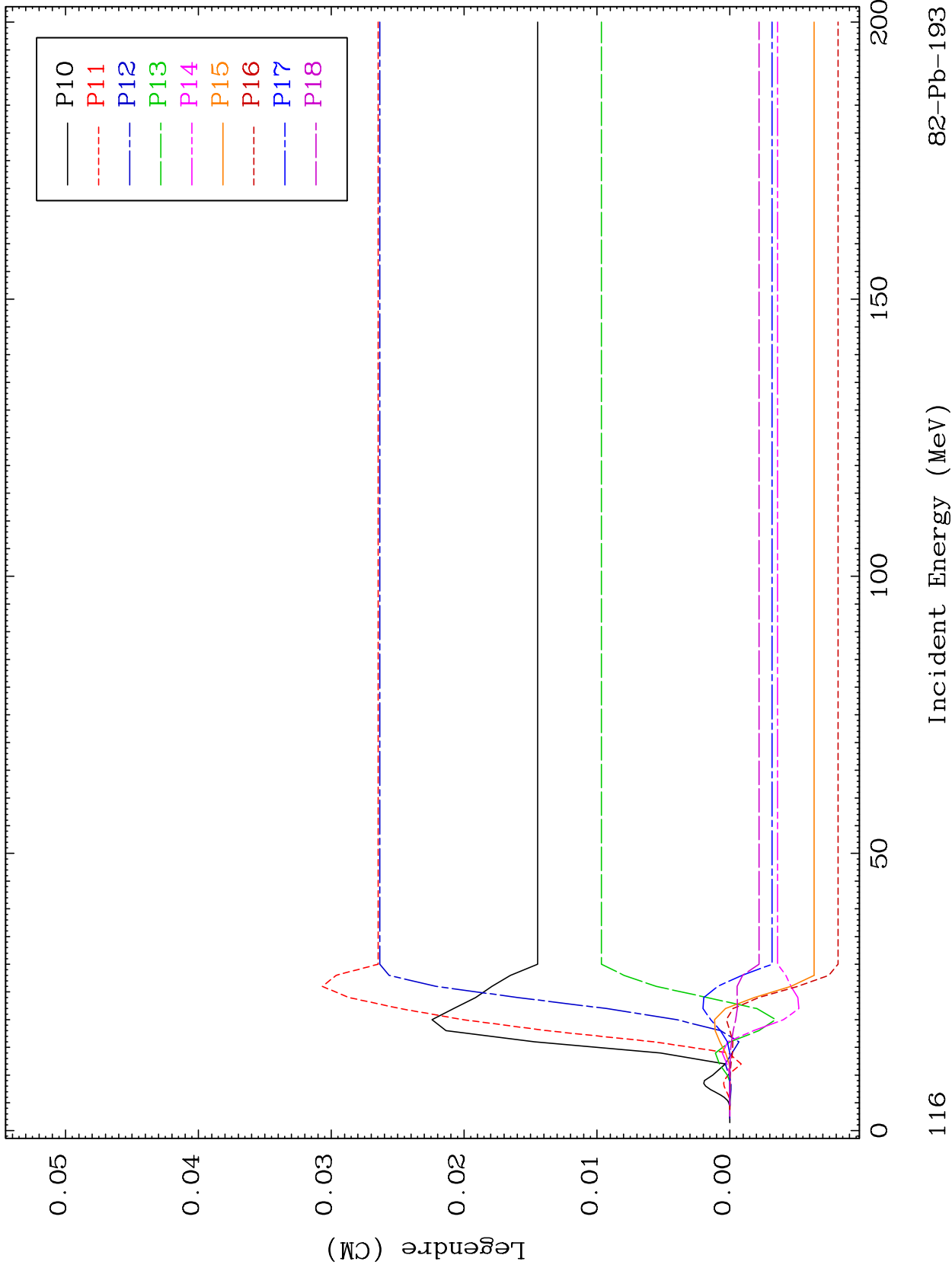
Incident Energy (MeV)

115

MAT 8192

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

82-Pb-193



82-Pb-193

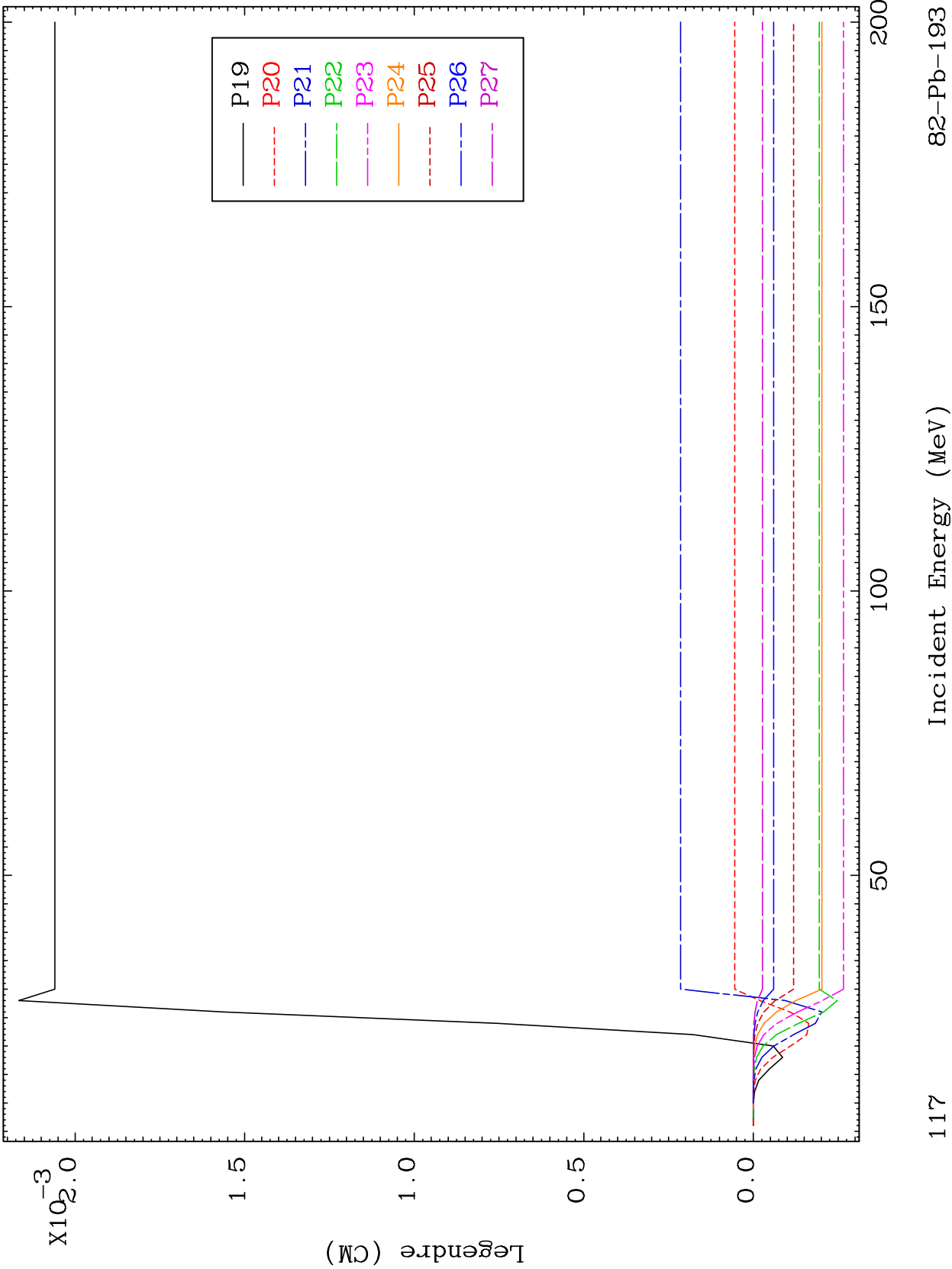
Incident Energy (MeV)

116

MAT 8192

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

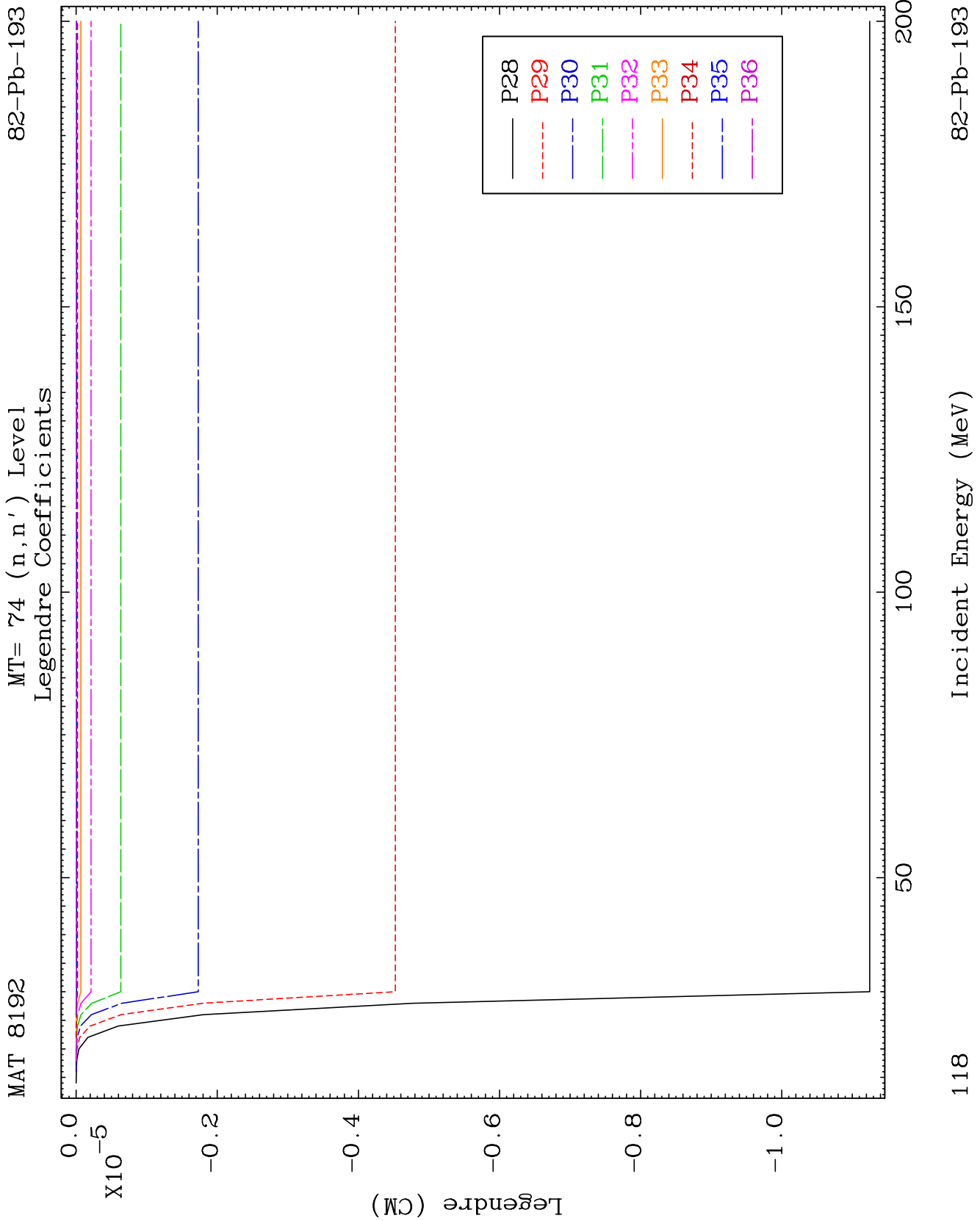
82-Pb-193



117

Incident Energy (MeV)

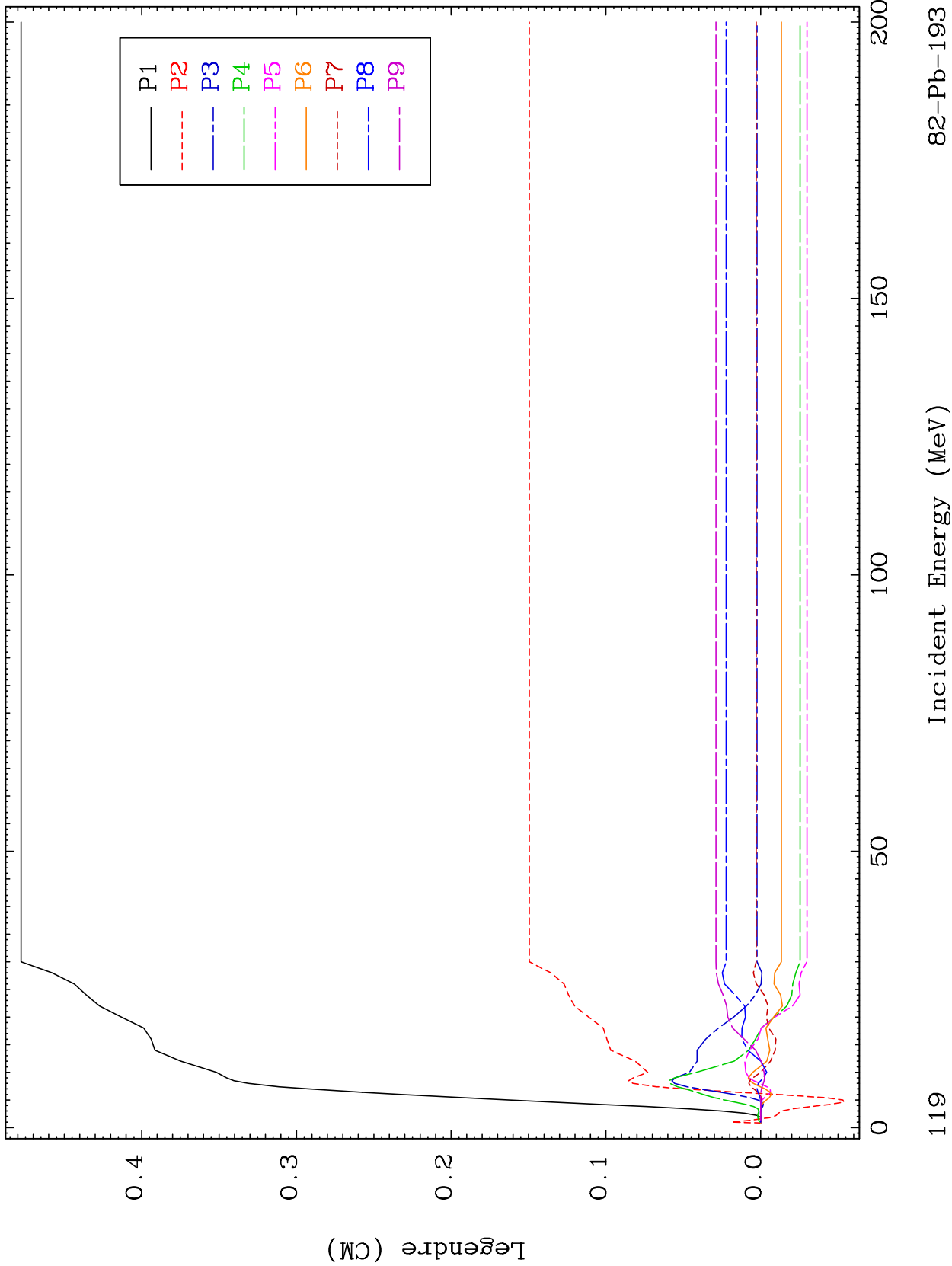
82-Pb-193



MAT 8192

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

82-Pb-193



82-Pb-193

Incident Energy (MeV)

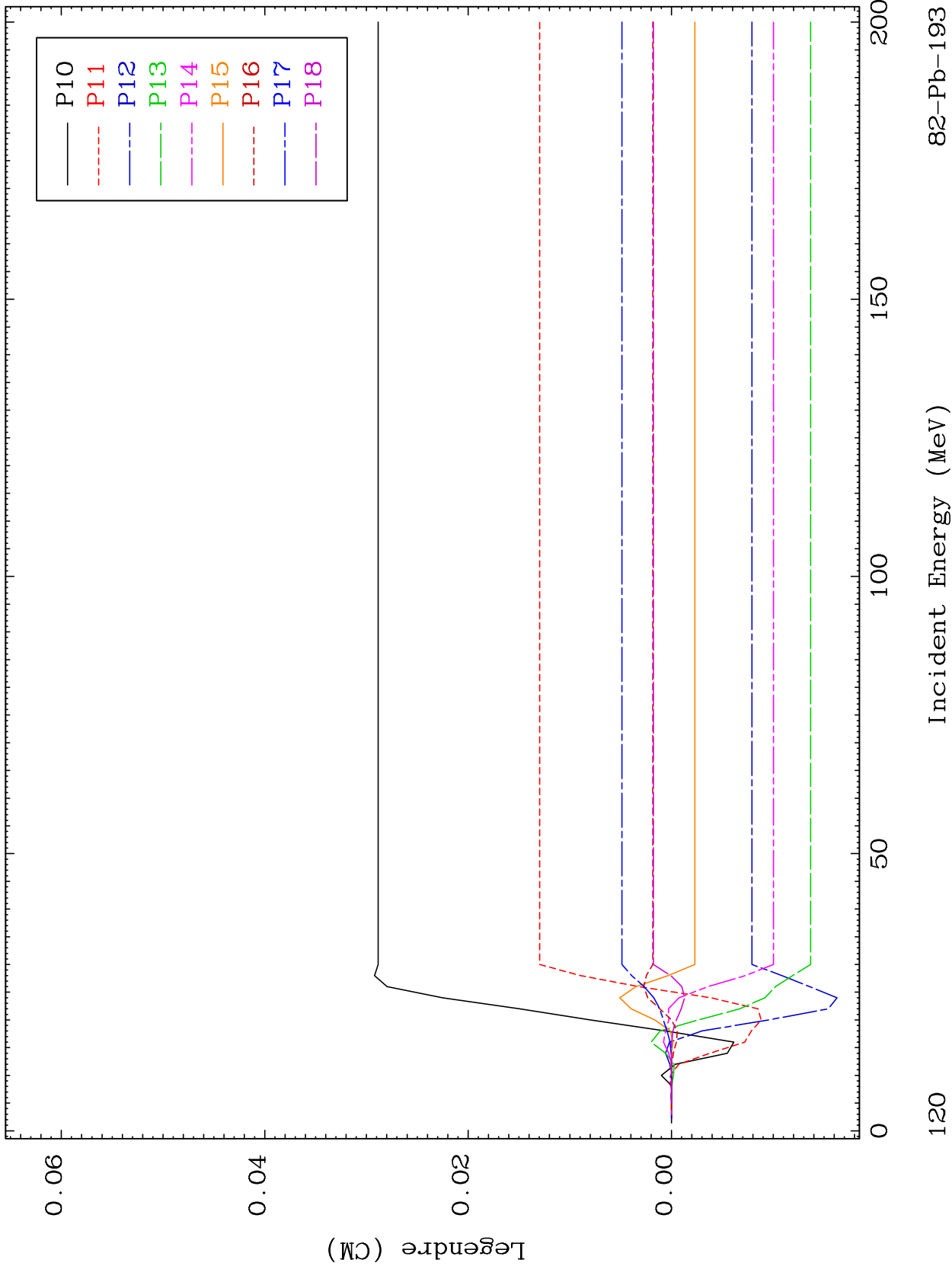
119



MAT 8192

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

82-Pb-193



82-Pb-193

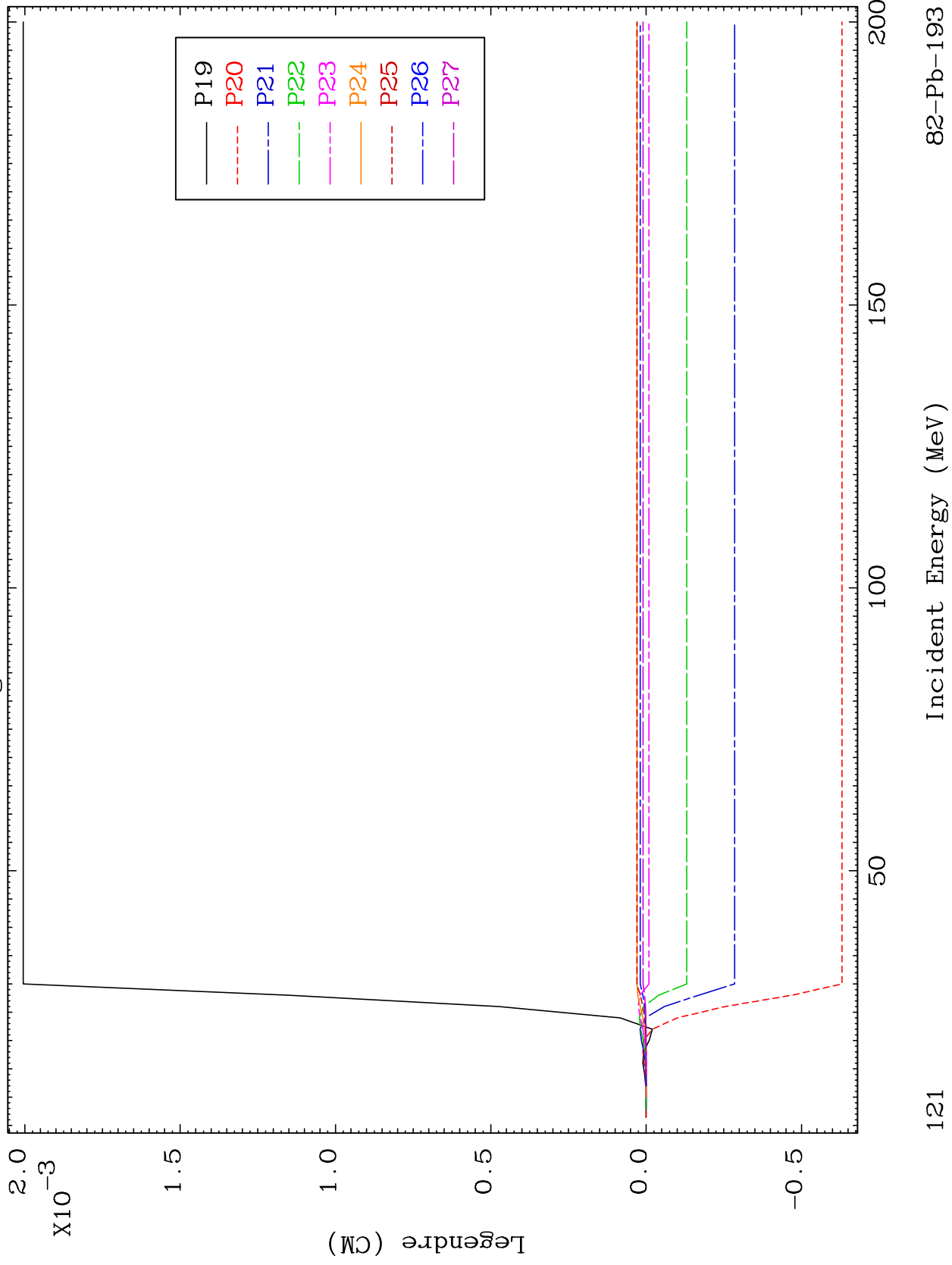
Incident Energy (MeV)

120

MAT 8192

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

82-Pb-193



121

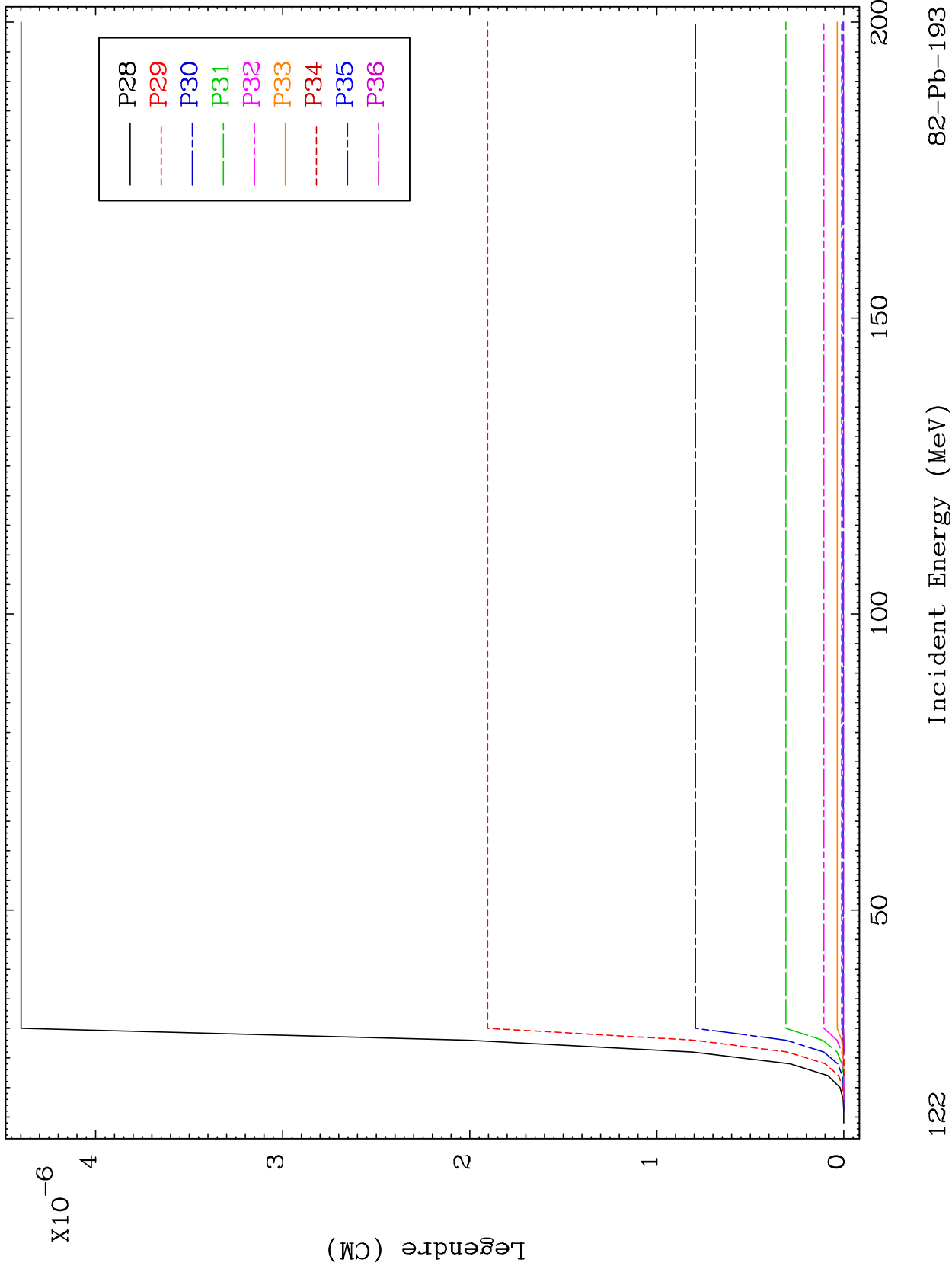
Incident Energy (MeV)

82-Pb-193

MAT 8192

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

82-Pb-193



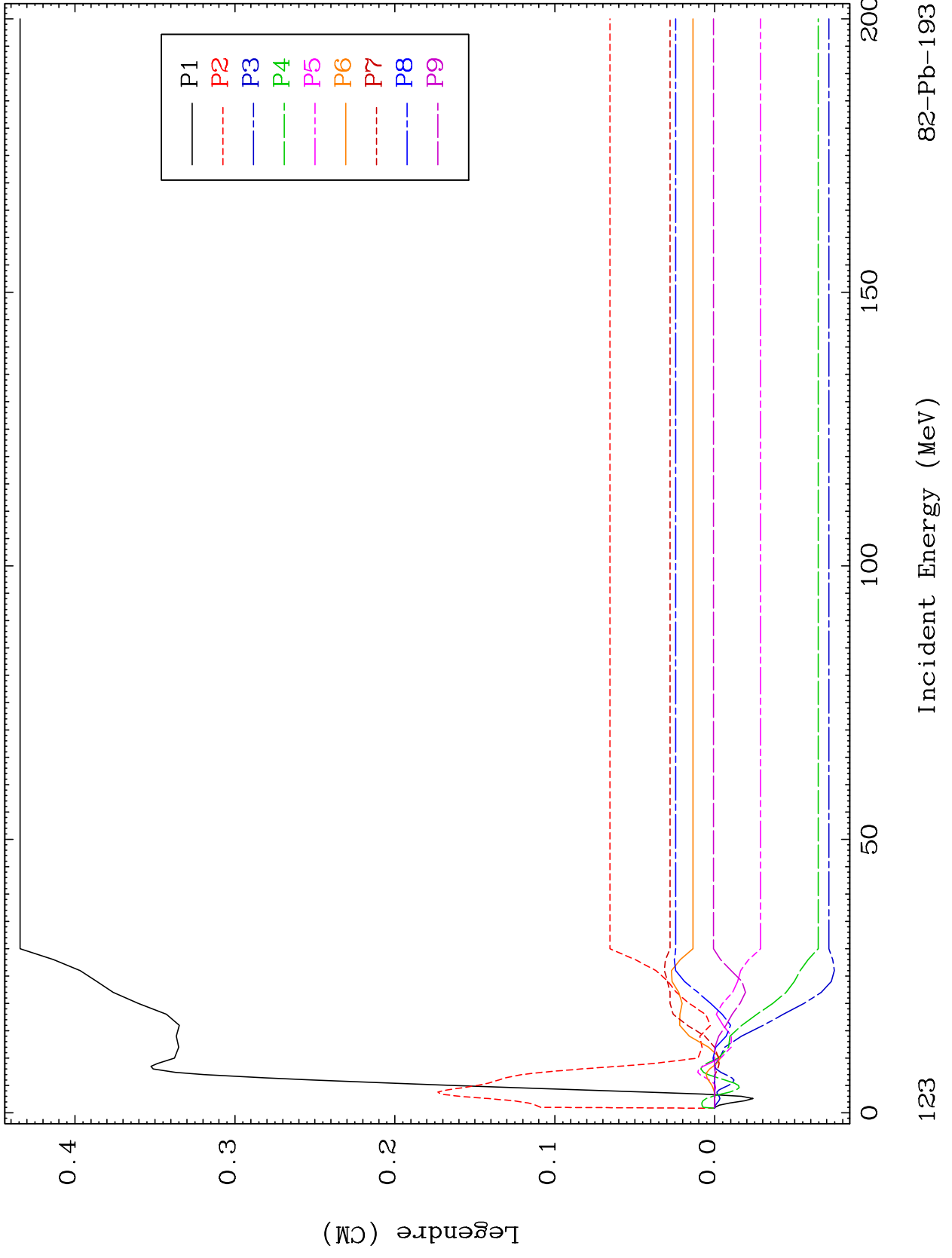
122

82-Pb-193

MAT 8192

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

82-Pb-193



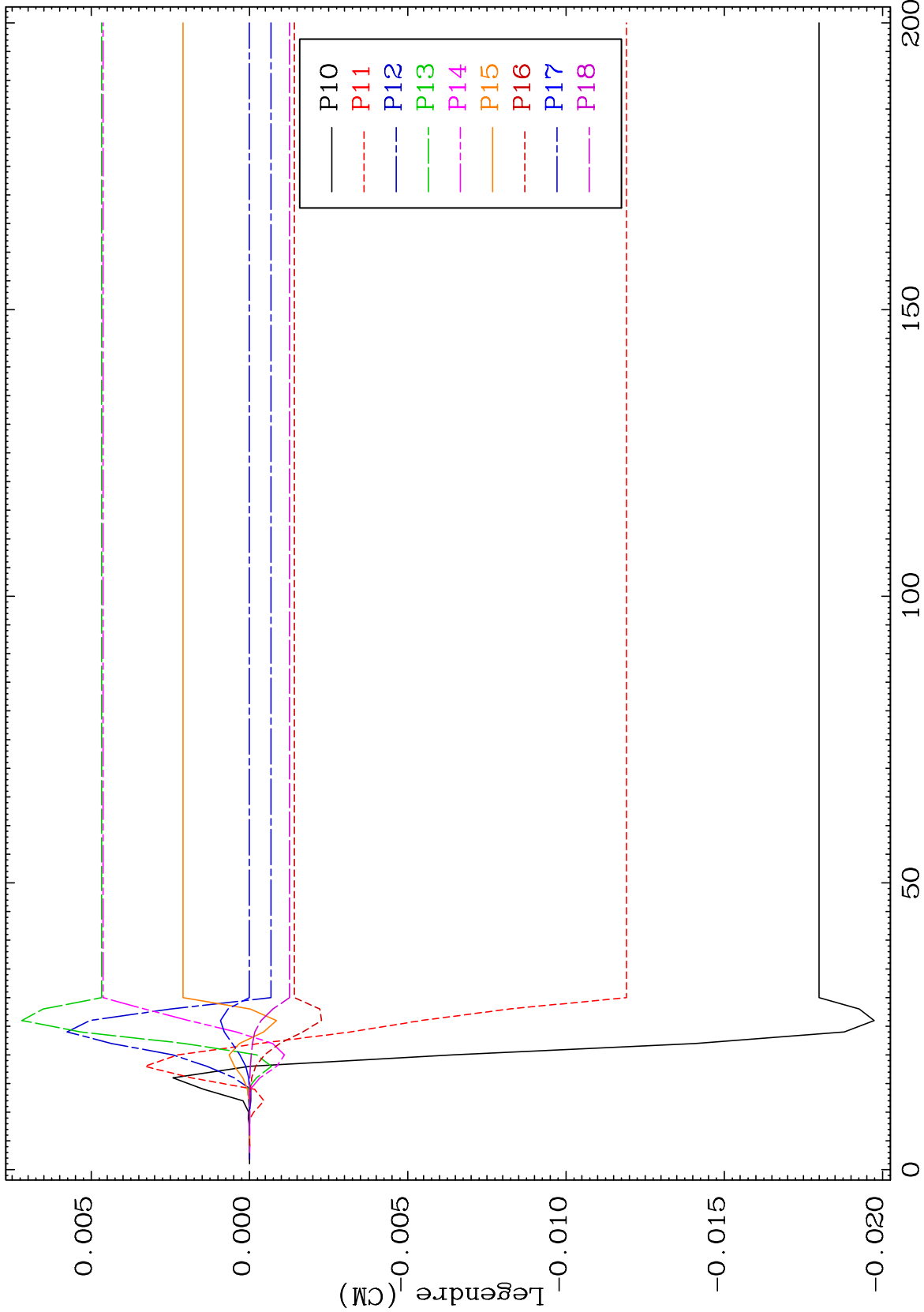
82-Pb-193

Incident Energy (MeV)

MAT 8192

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

82-Pb-193



124

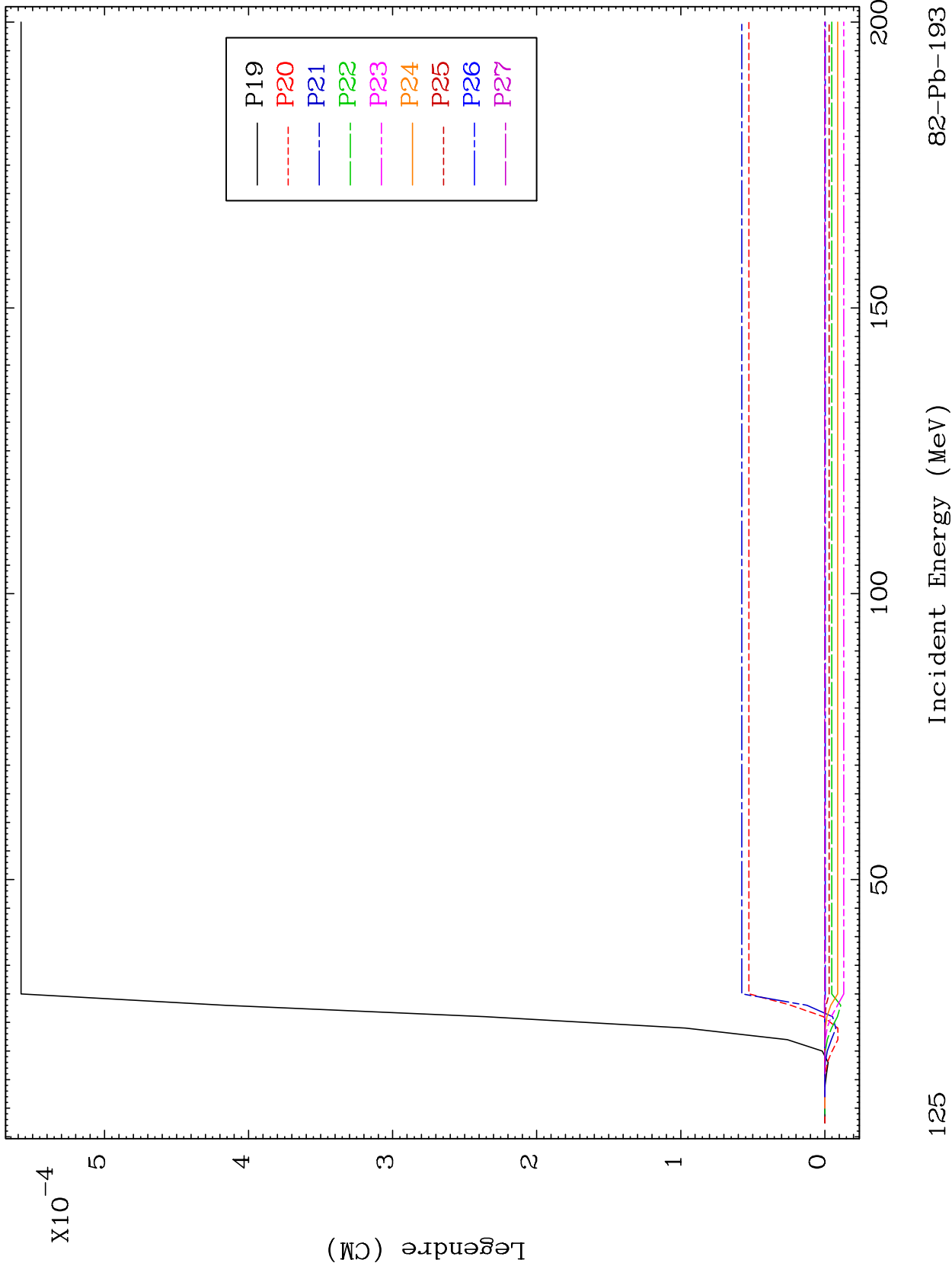
Incident Energy (MeV)

82-Pb-193

MAT 8192

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

82-Pb-193



125

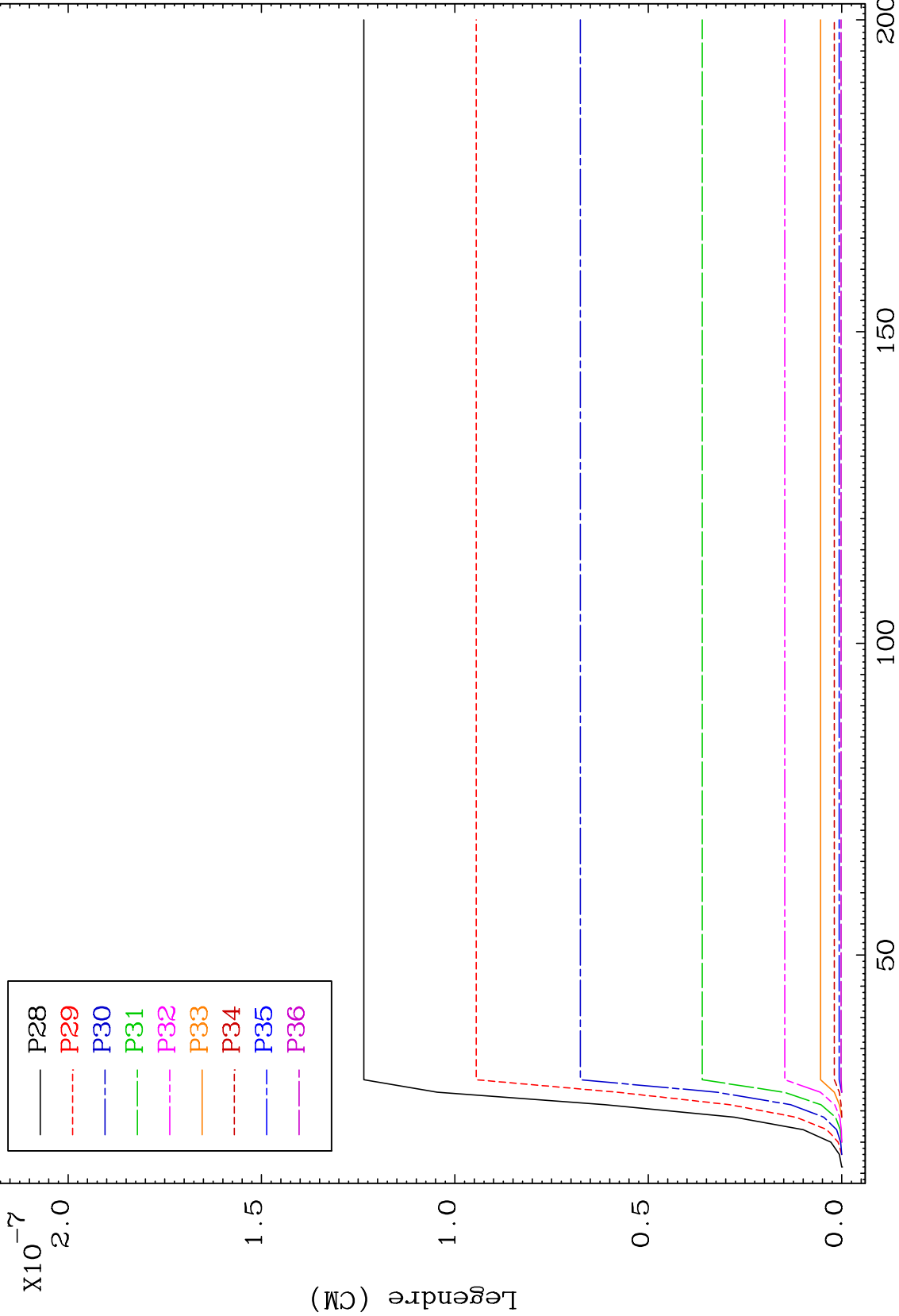
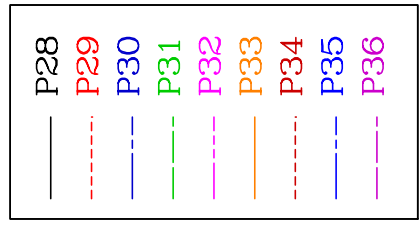
Incident Energy (MeV)

82-Pb-193

MAT 8192

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

82-Pb-193



126

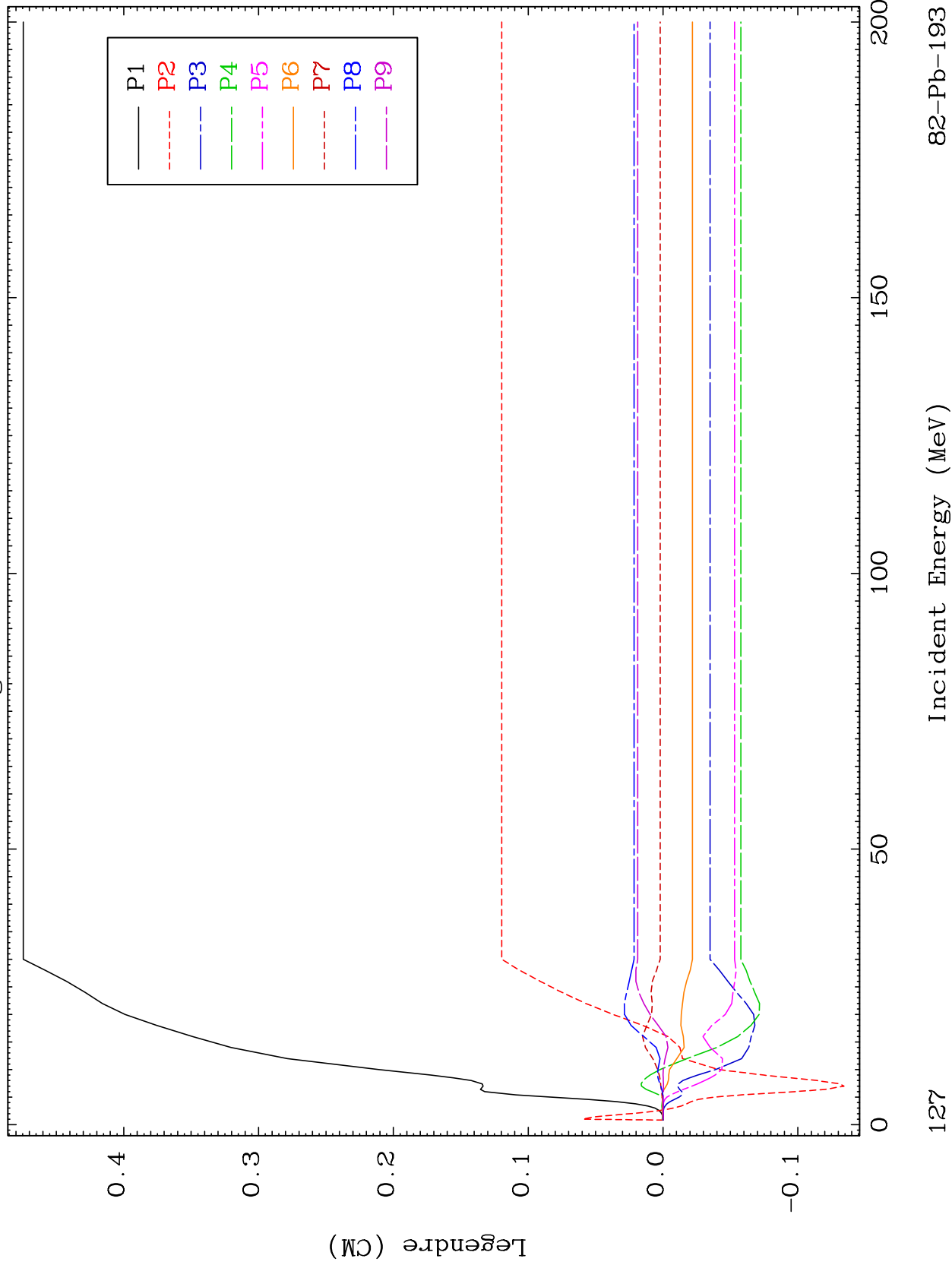
Incident Energy (MeV)

82-Pb-193

MAT 8192

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

82-Pb-193

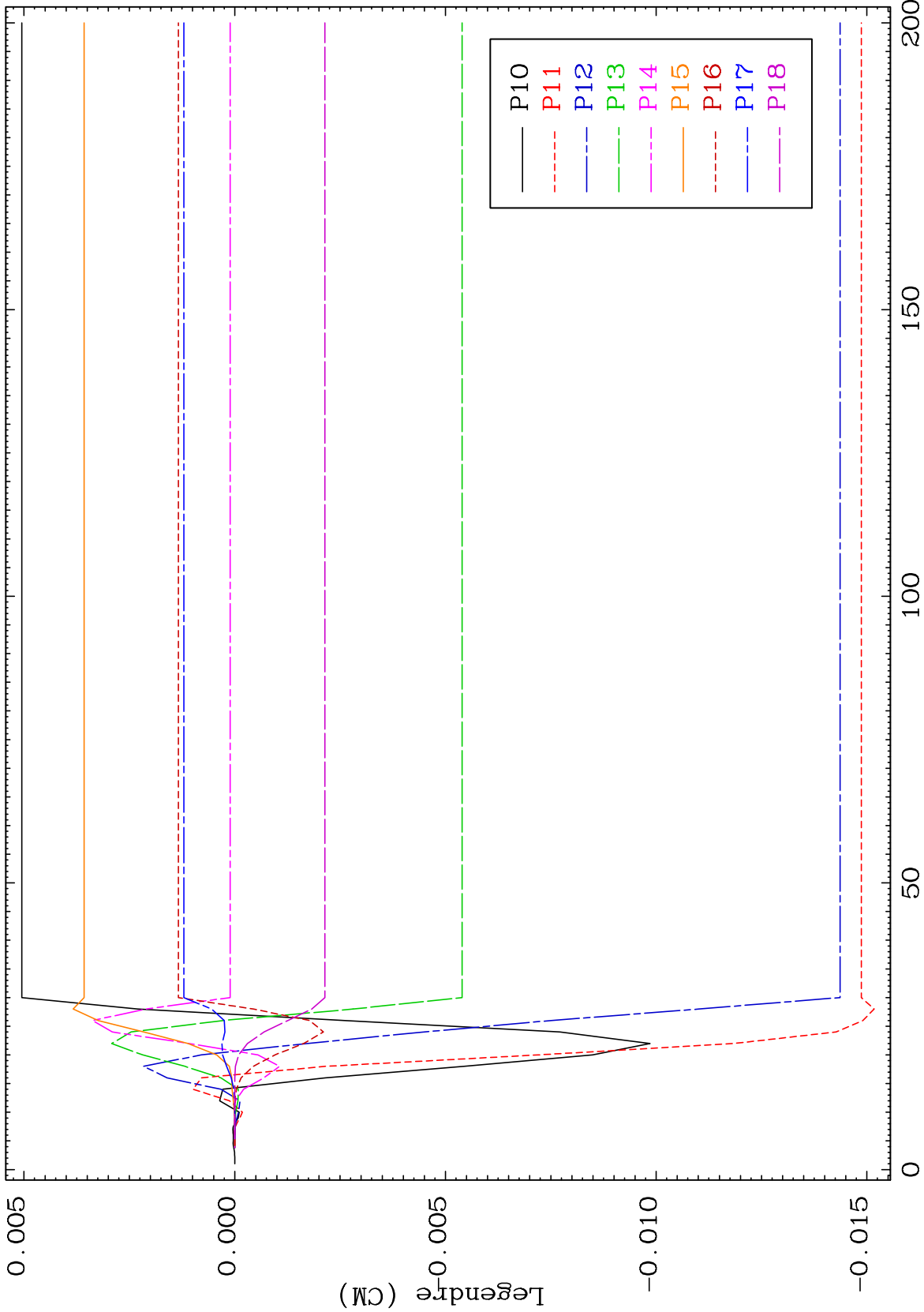


82-Pb-193

Incident Energy (MeV)

127

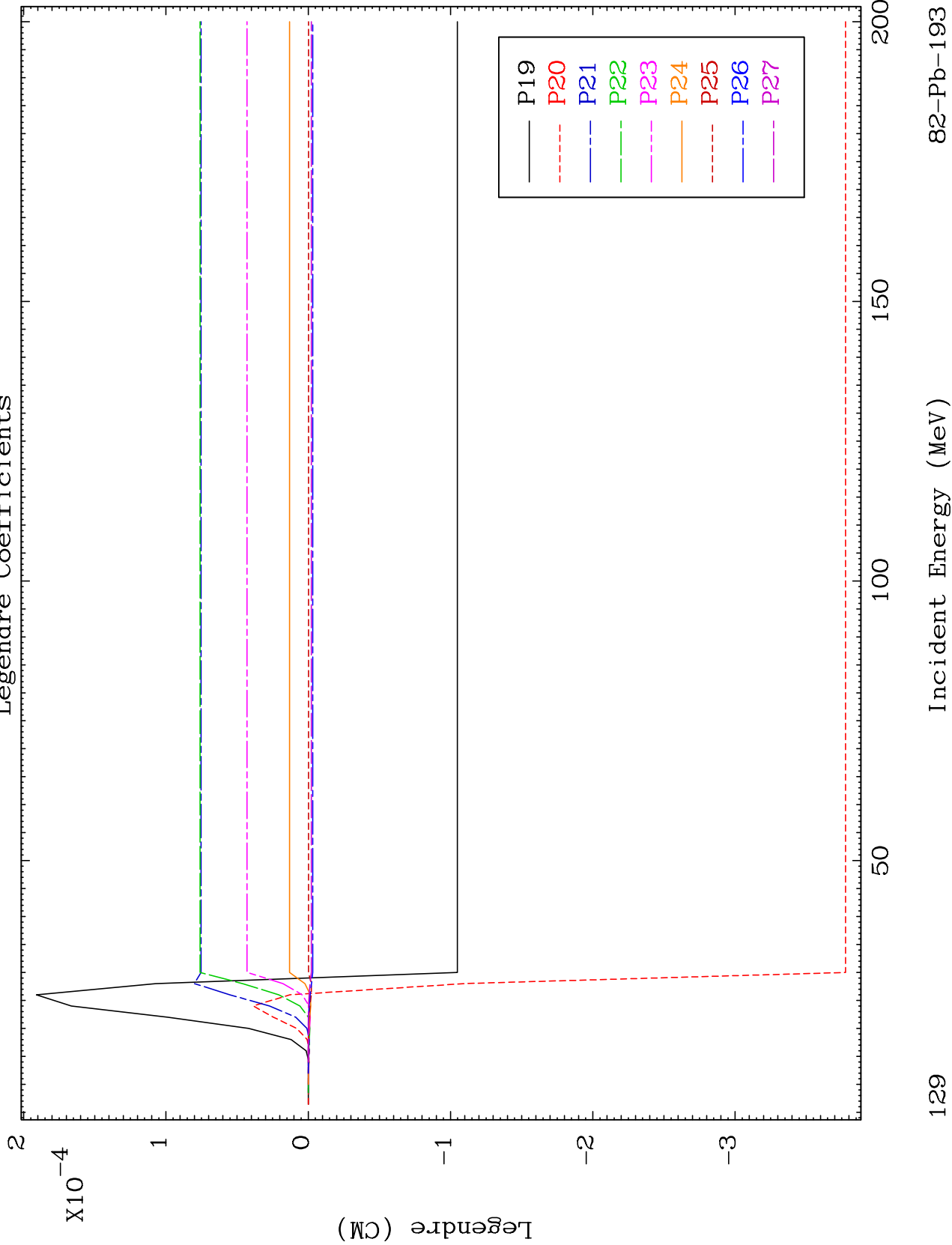




MAT 8192

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

82-Pb-193



129

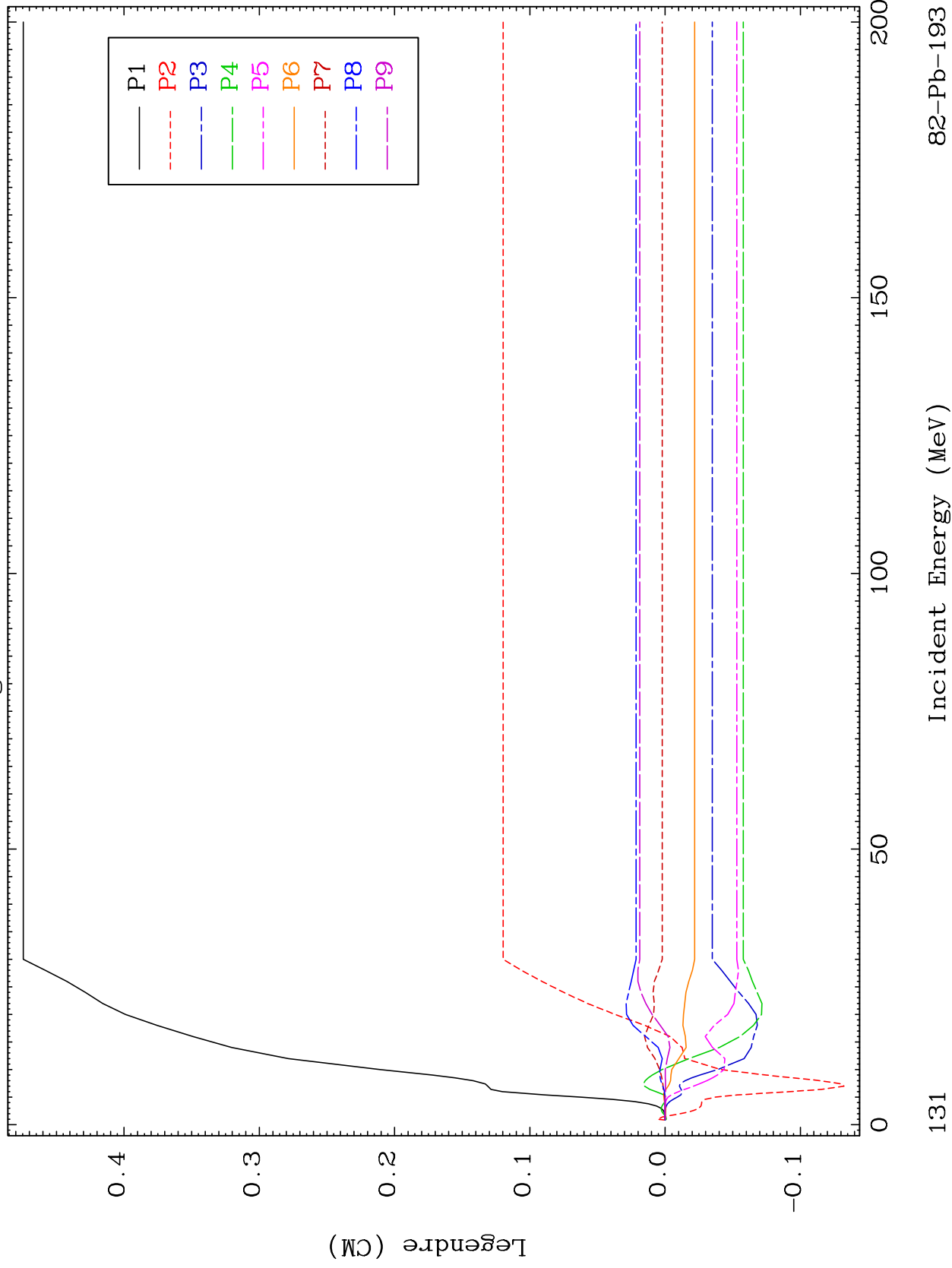
82-Pb-193



MAT 8192

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

82-Pb-193



82-Pb-193

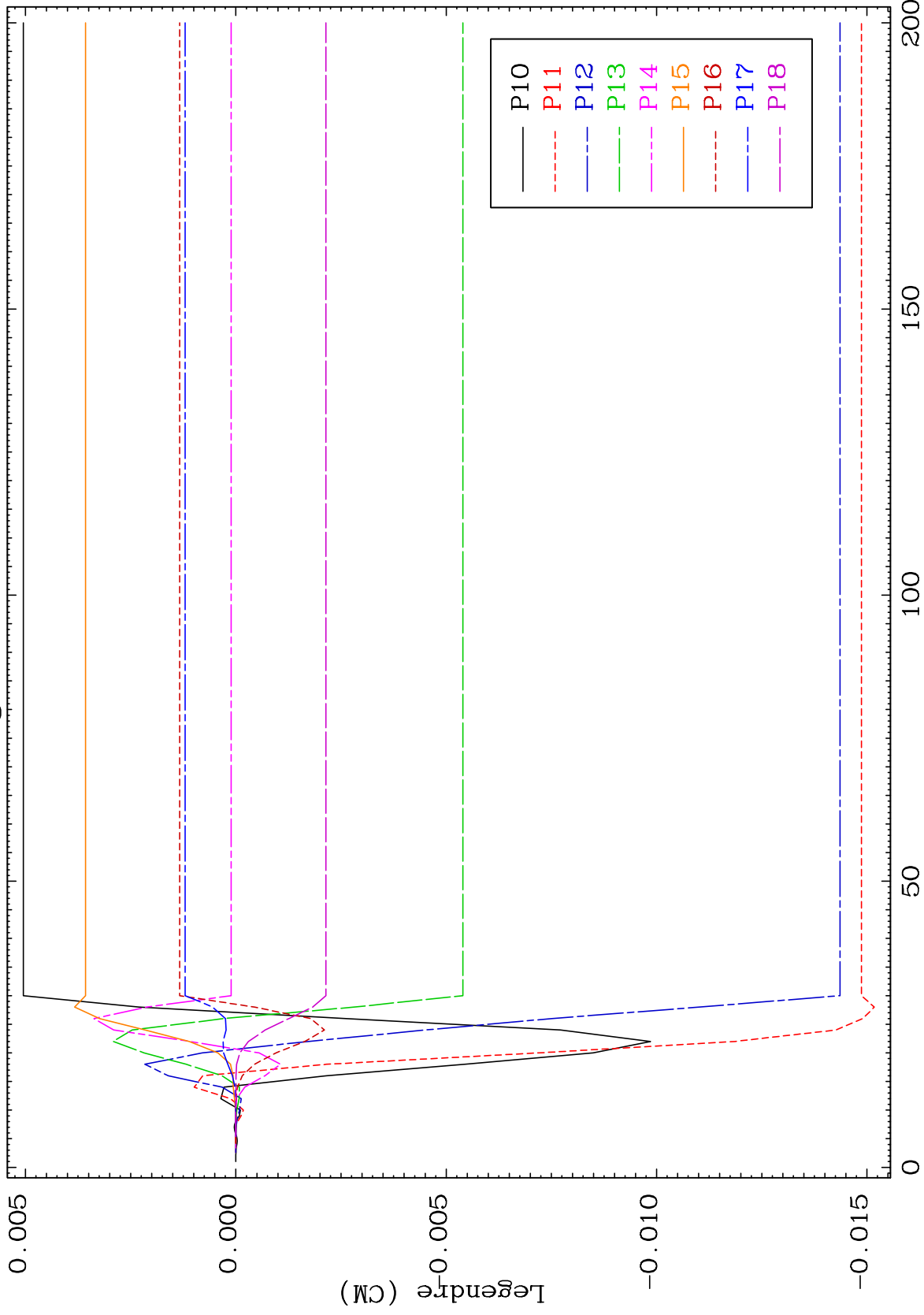
Incident Energy (MeV)

131

MAT 8192

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

82-Pb-193



132

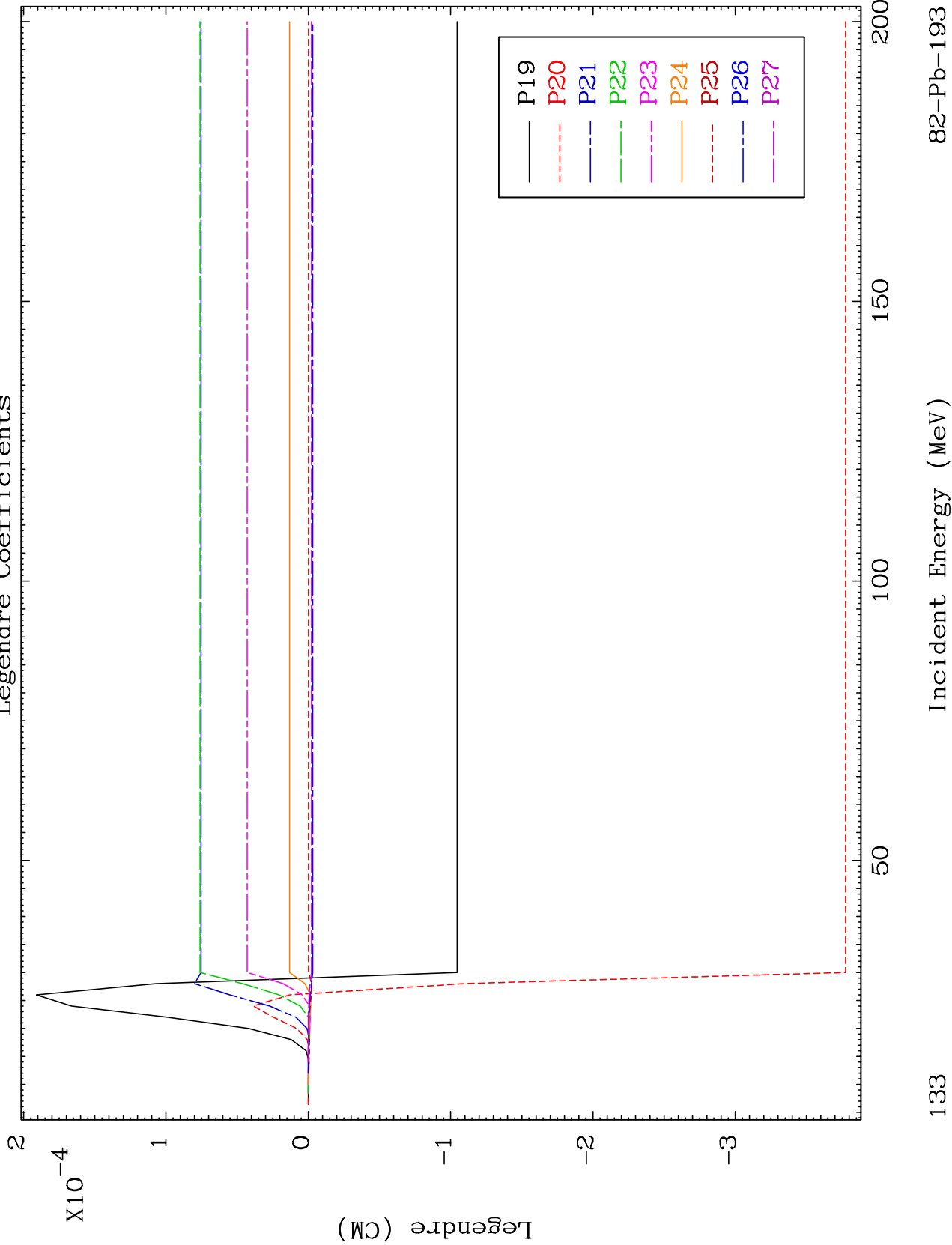
Incident Energy (MeV)

82-Pb-193

MAT 8192

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

82-Pb-193



133

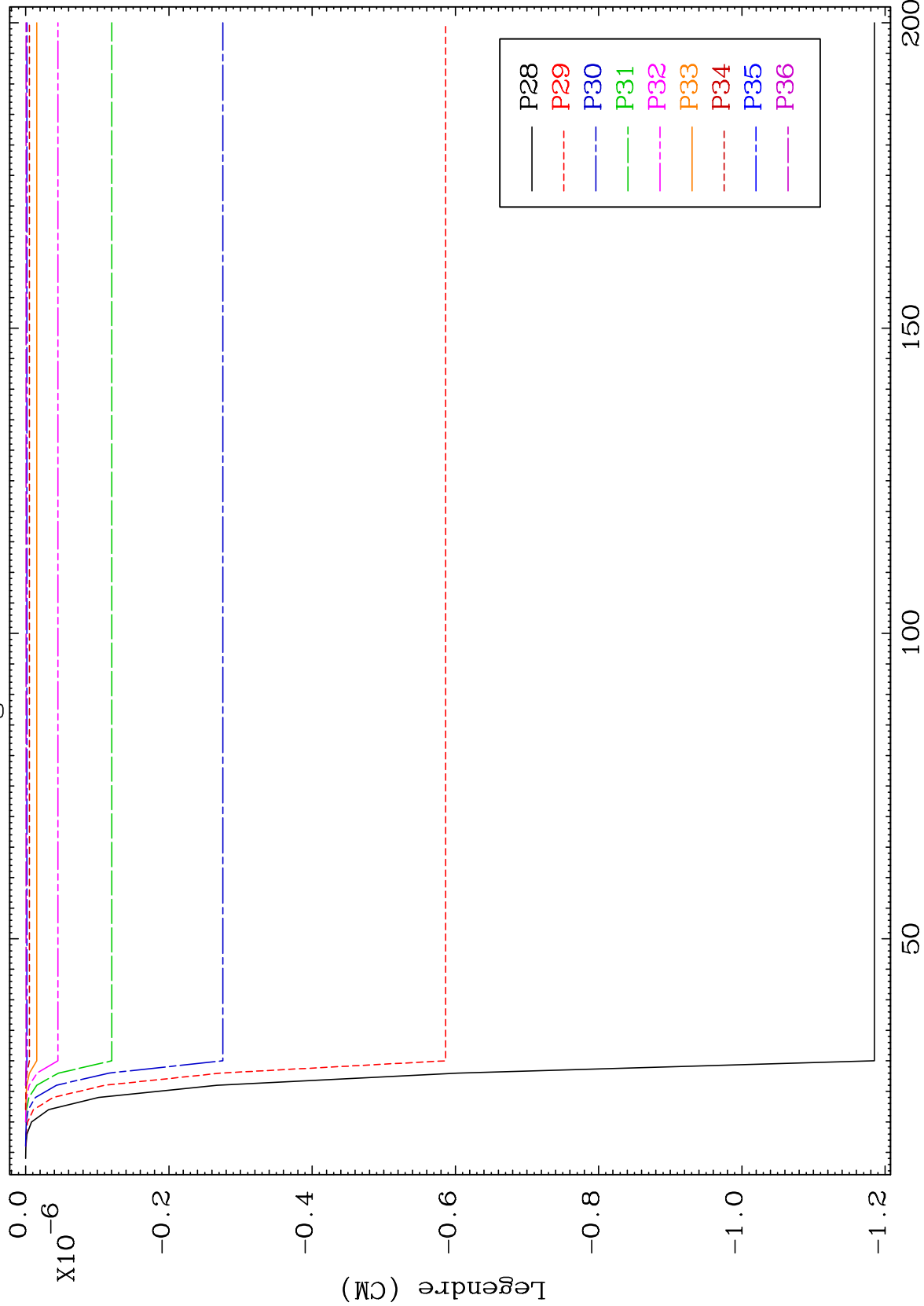
Incident Energy (MeV)

82-Pb-193

MAT 8192

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

82-Pb-193



82-Pb-193

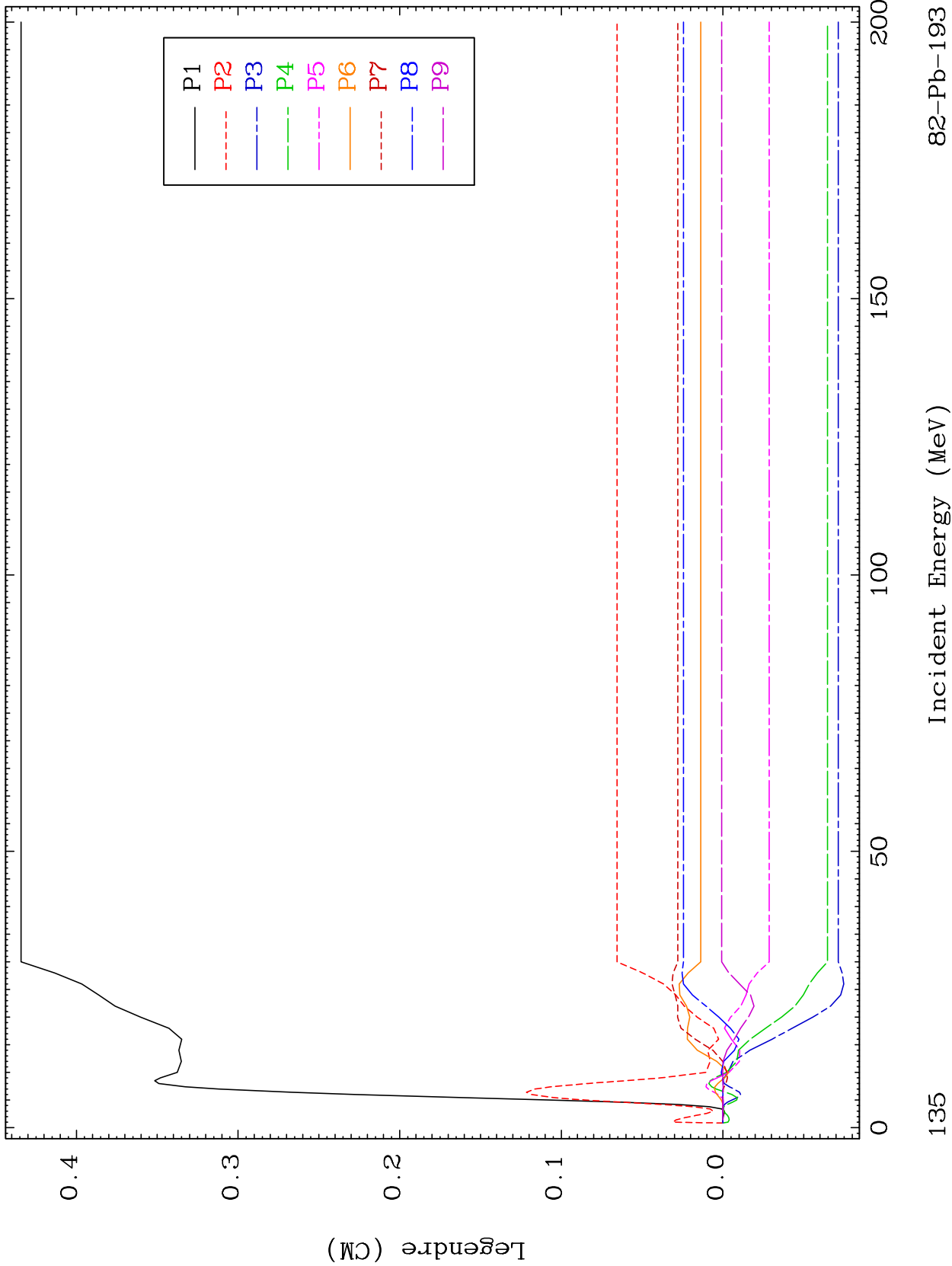
Incident Energy (MeV)

134

MAT 8192

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

82-Pb-193



82-Pb-193

Incident Energy (MeV)

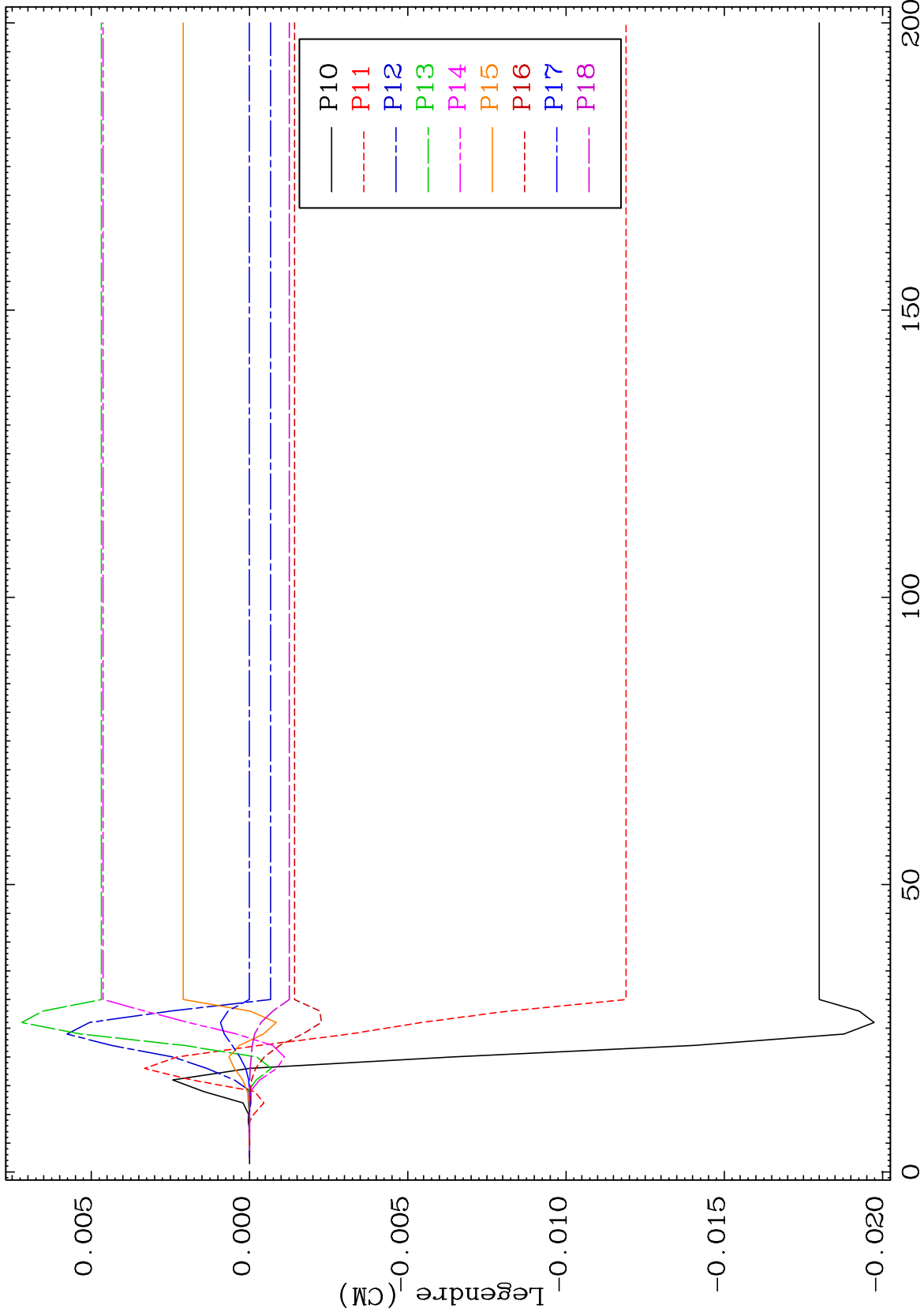
135



MAT 8192

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

82-Pb-193



136

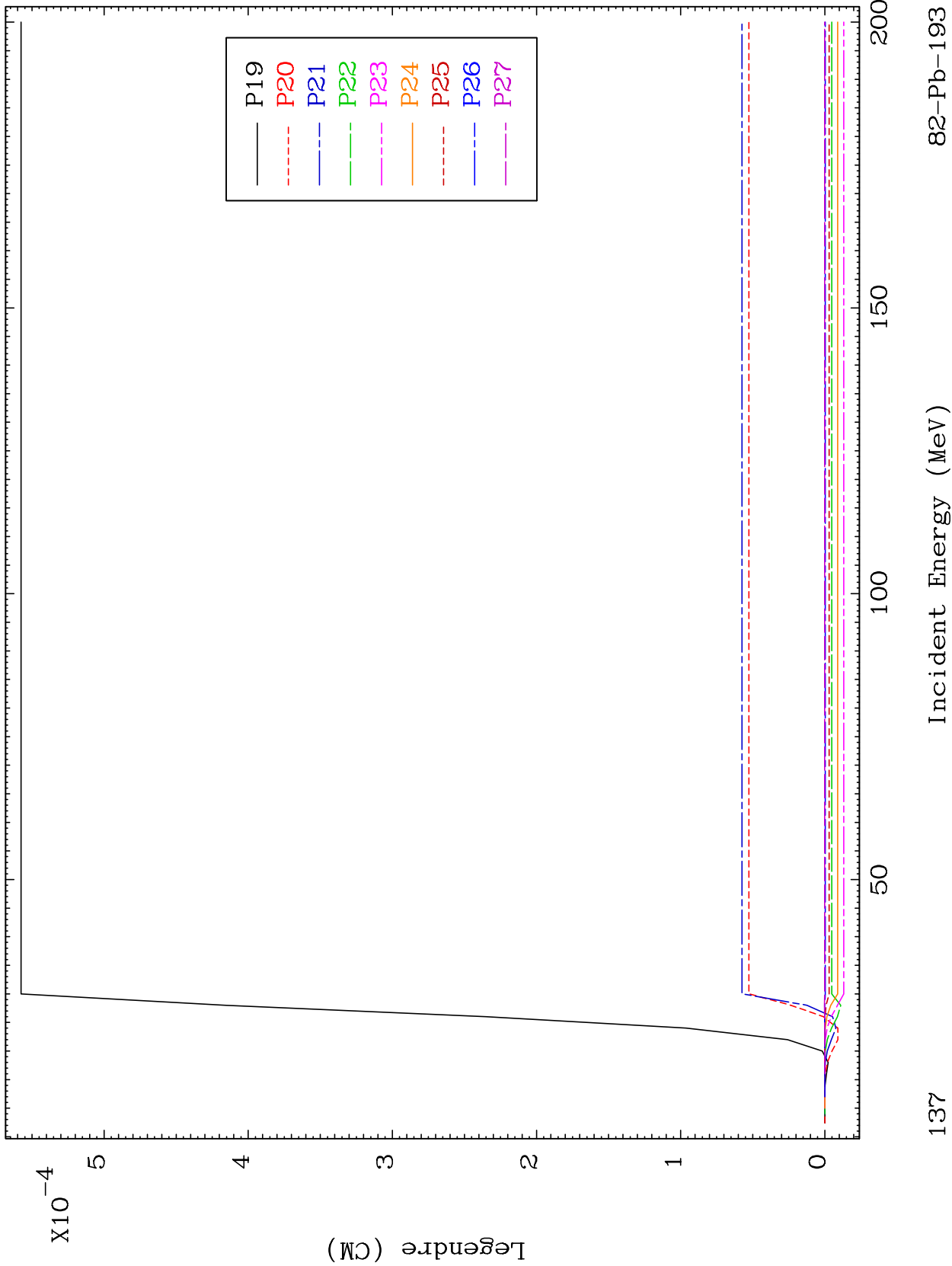
Incident Energy (MeV)

82-Pb-193

MAT 8192

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

82-Pb-193



137

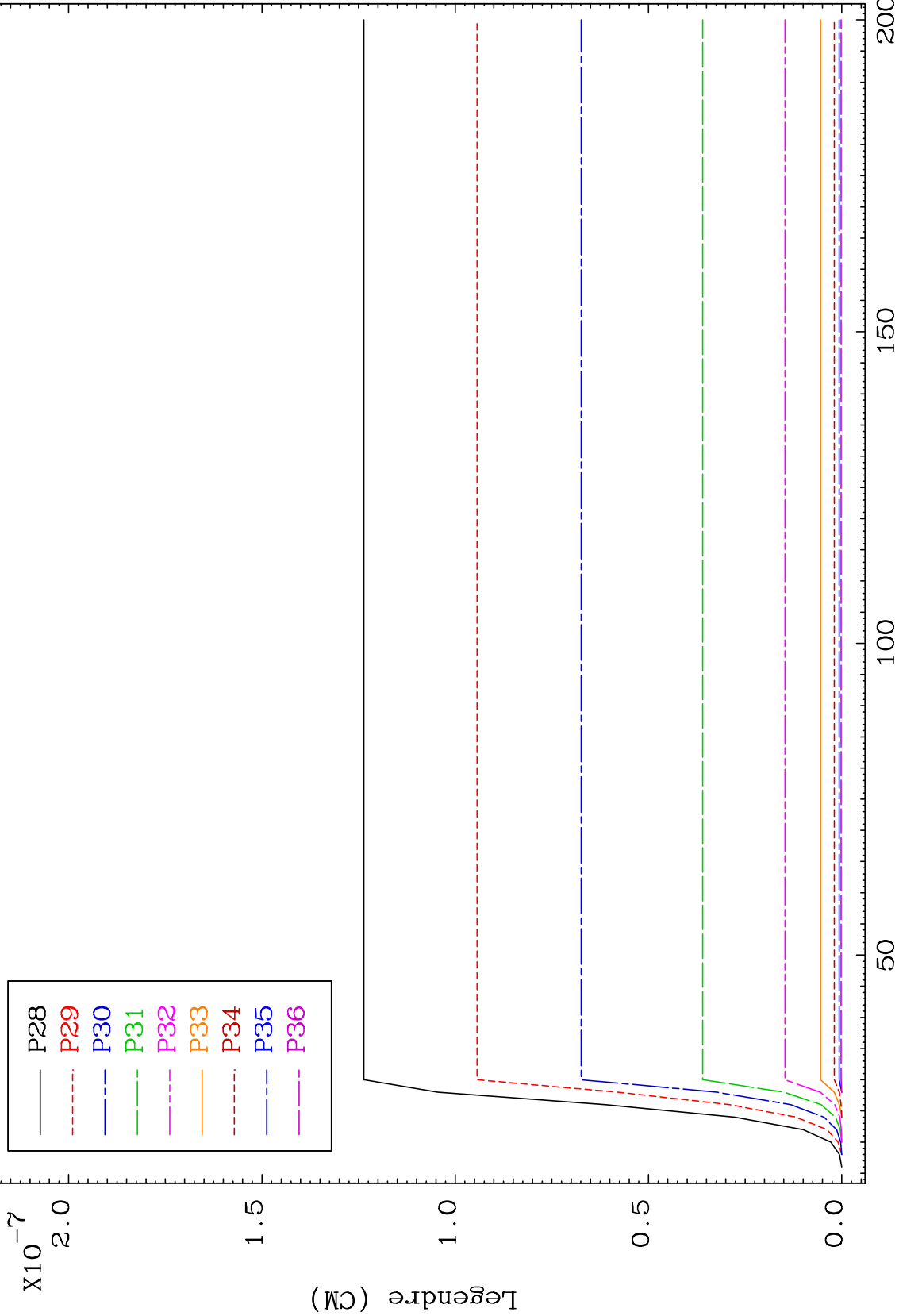
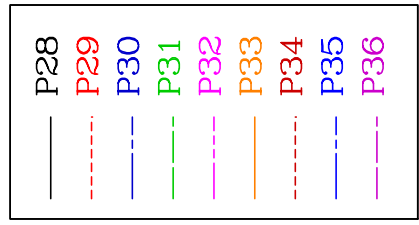
Incident Energy (MeV)

82-Pb-193

MAT 8192

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

82-Pb-193



138

Incident Energy (MeV)

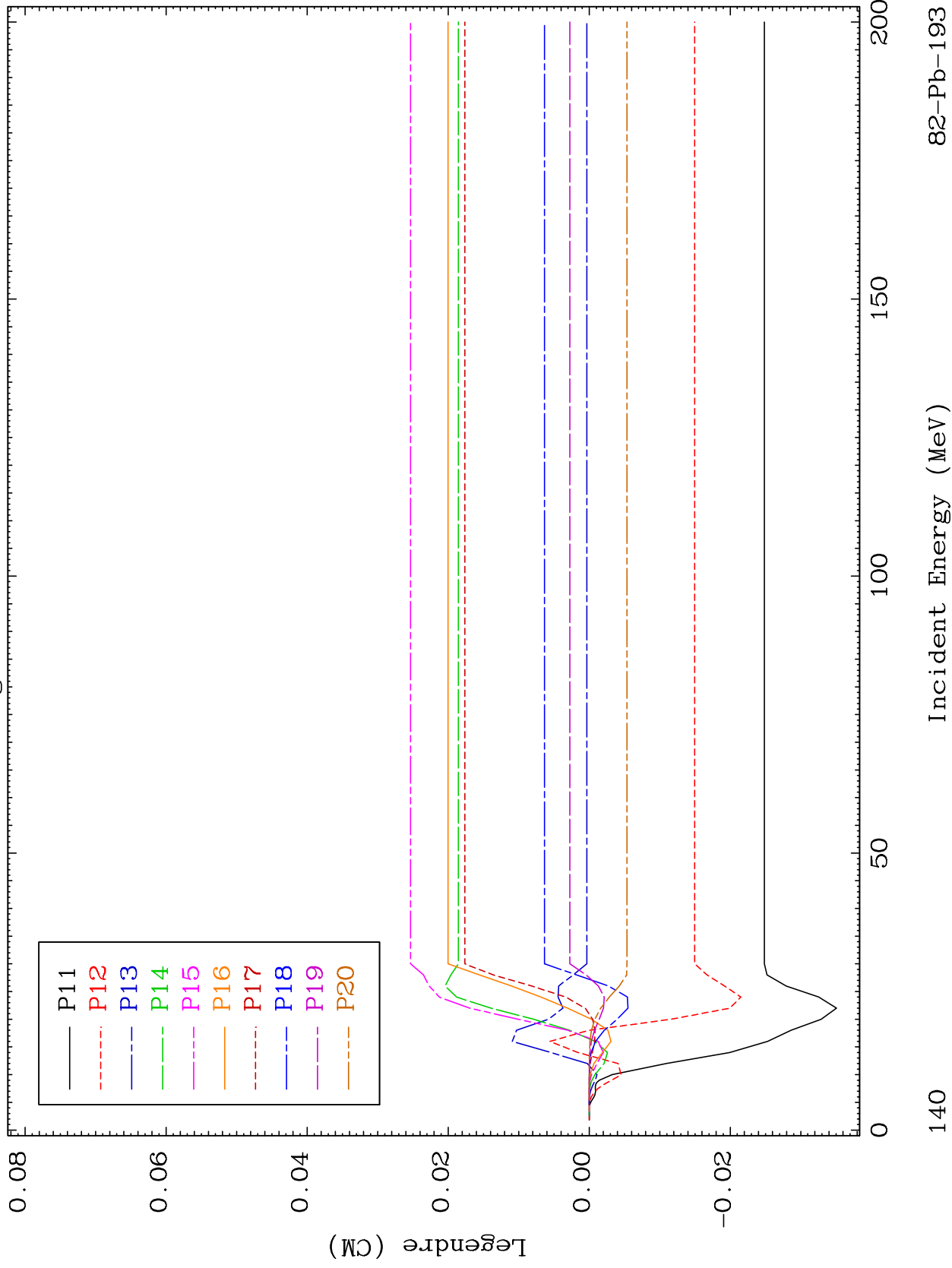
82-Pb-193



MAT 8192

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

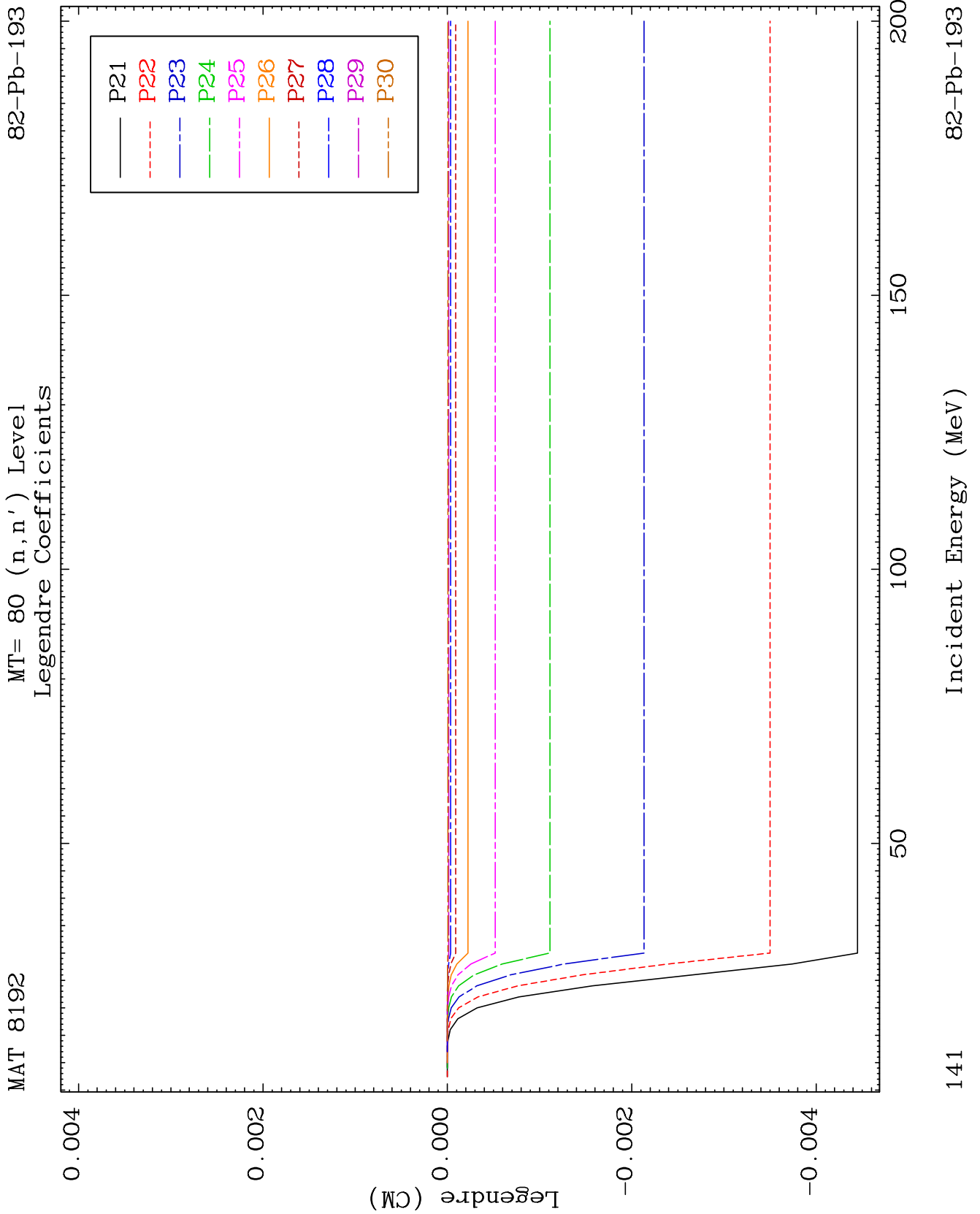
82-Pb-193

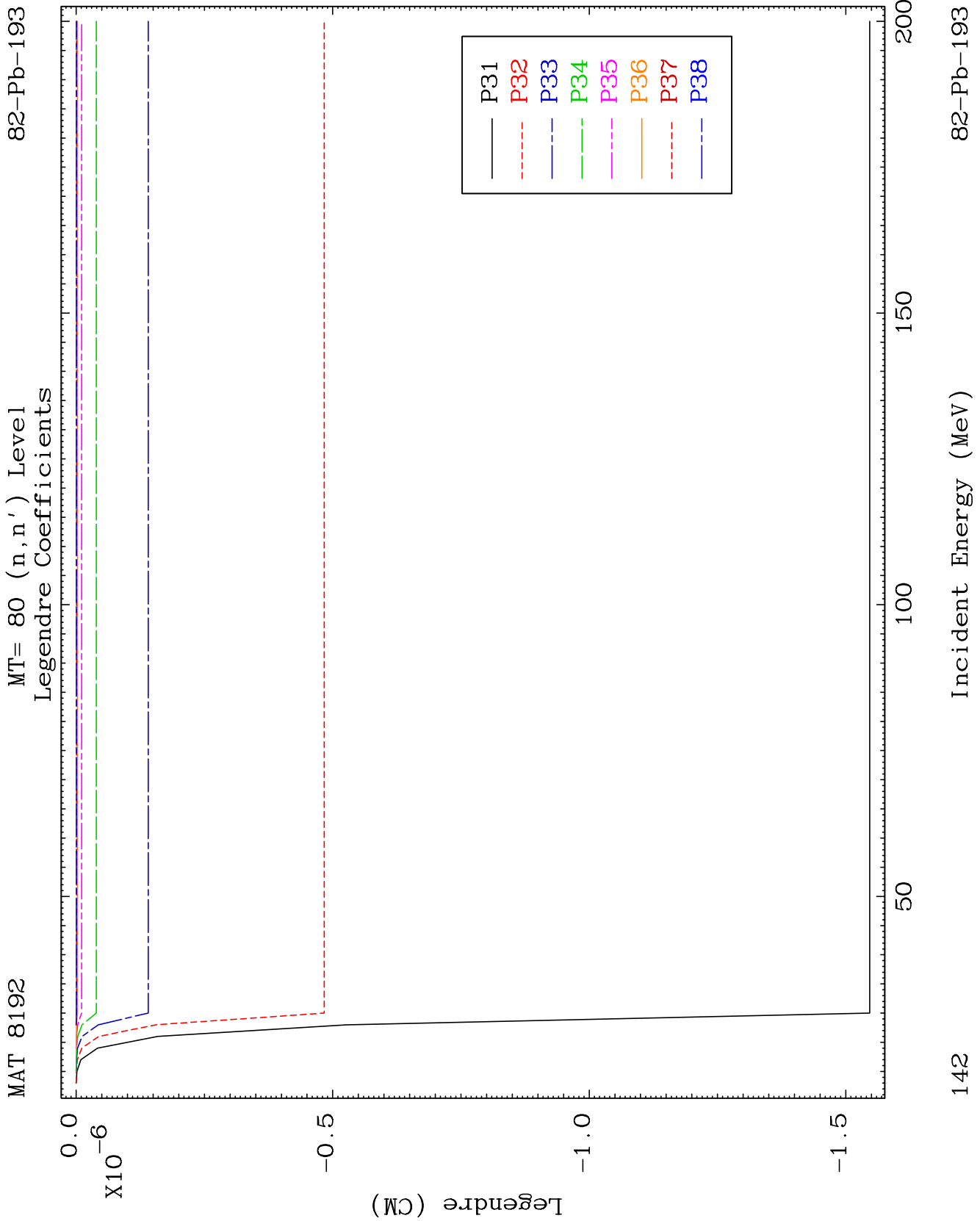


82-Pb-193

Incident Energy (MeV)

140

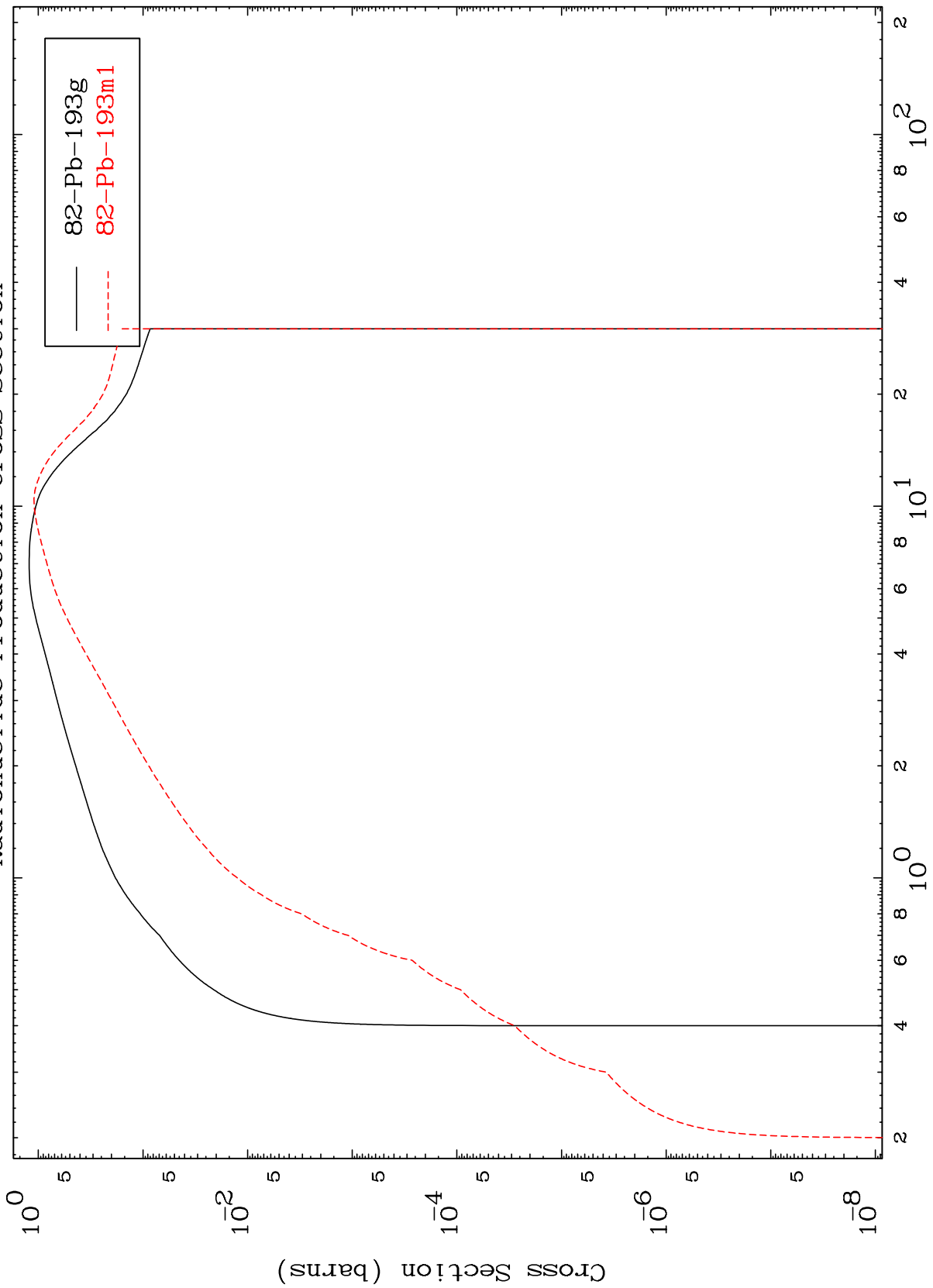




MAT 8192

82-Pb-193

Inelastic  
Radionuclide Production Cross Section



143

Incident Energy (MeV)

82-Pb-193

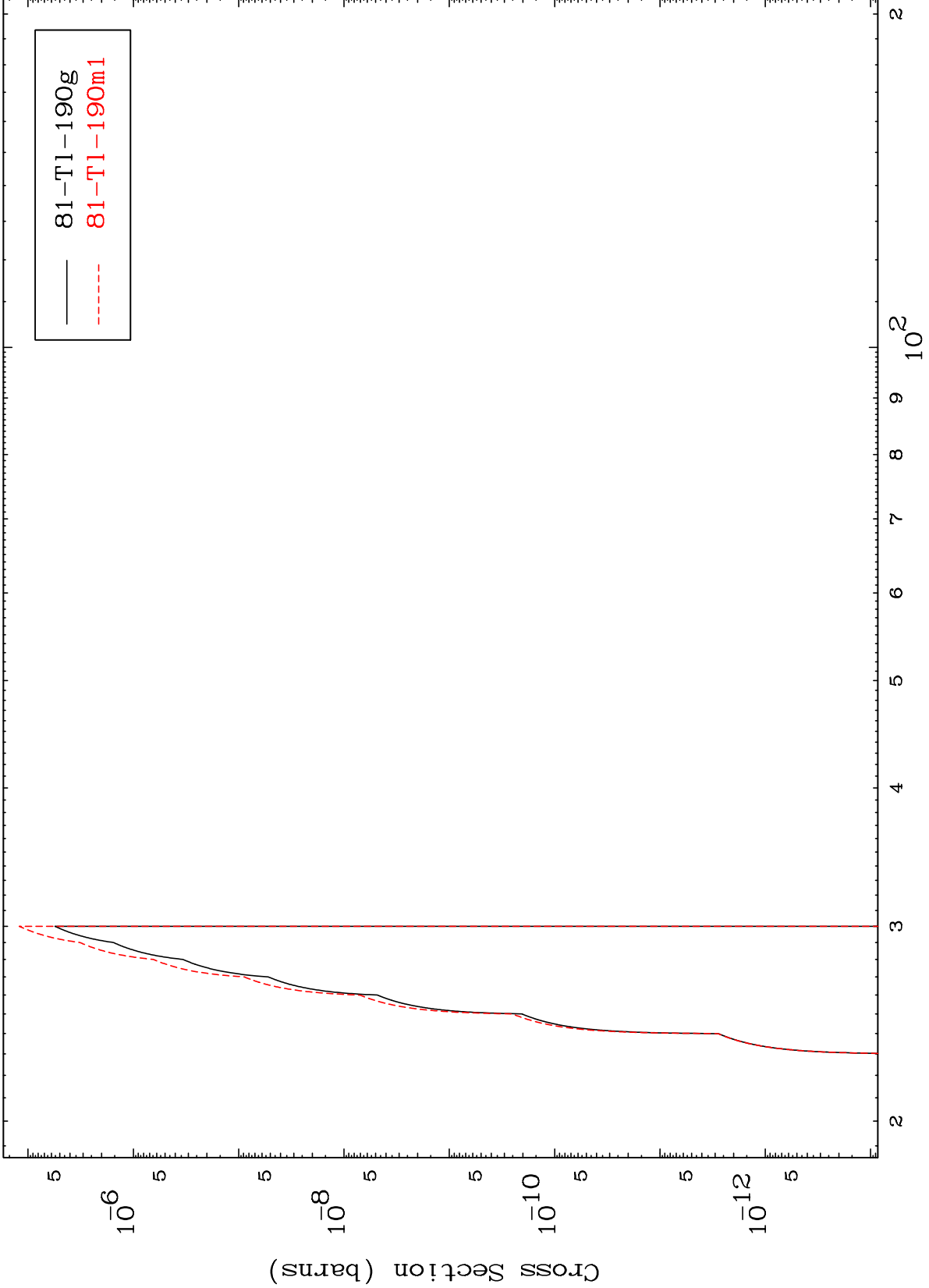


MAT 8192

(n,2n) d

82-Pb-193

Radionuclide Production Cross Section

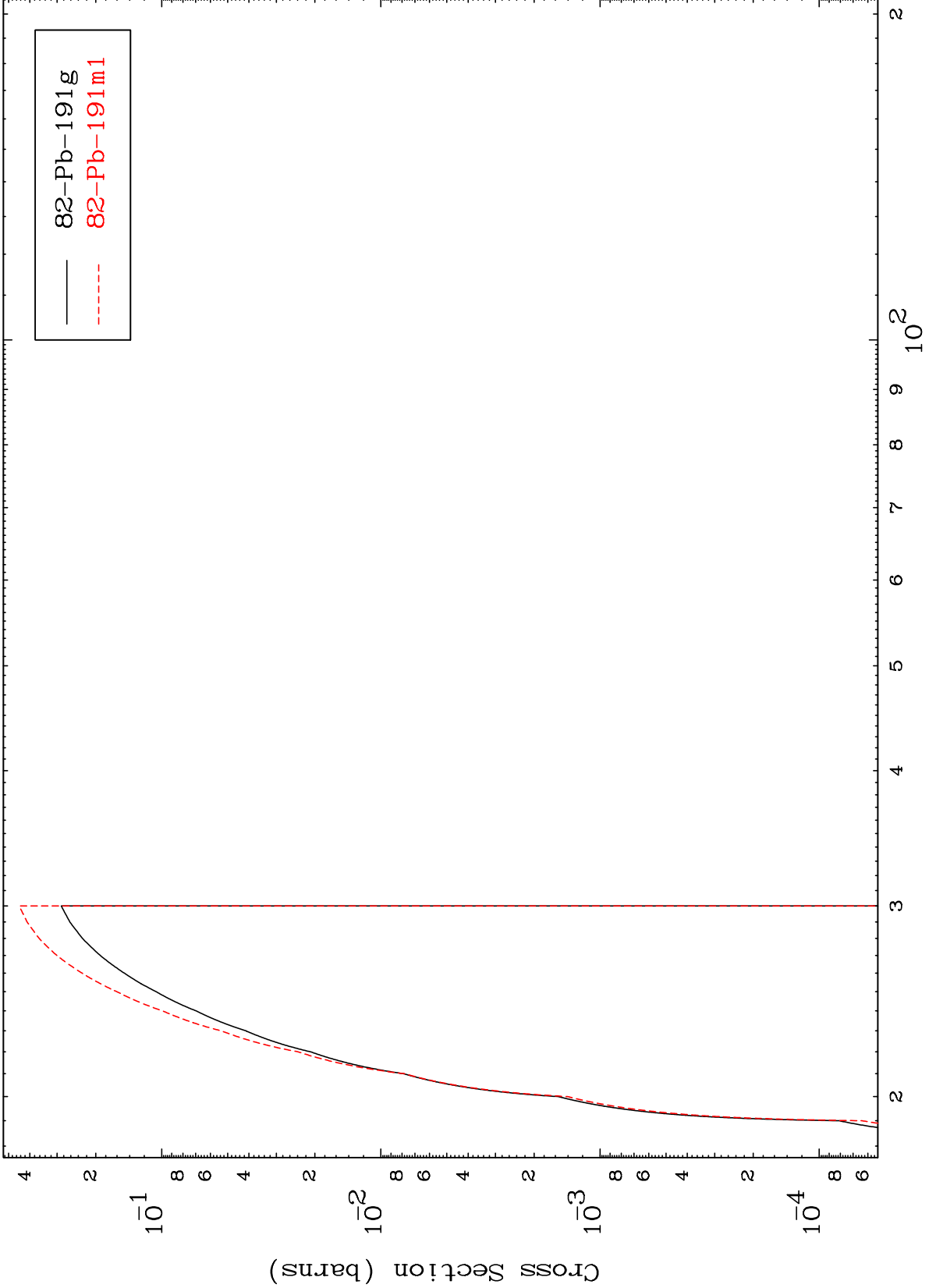


144

Incident Energy (MeV)

82-Pb-193

Radionuclide Production Cross Section

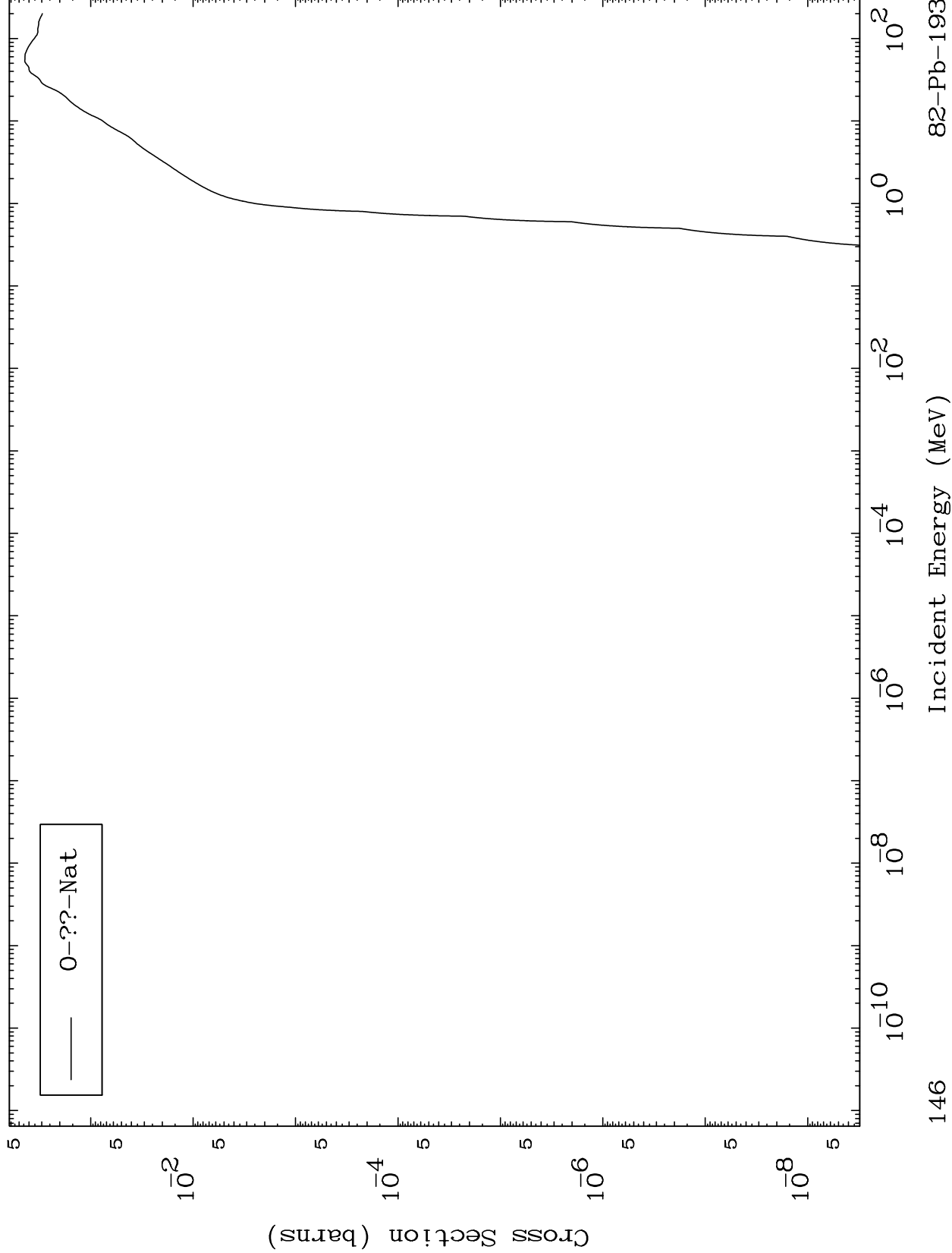


82-Pb-191 g  
82-Pb-191 m1

MAT 8192

Fission  
Radionuclide Production Cross Section

82-Pb-193

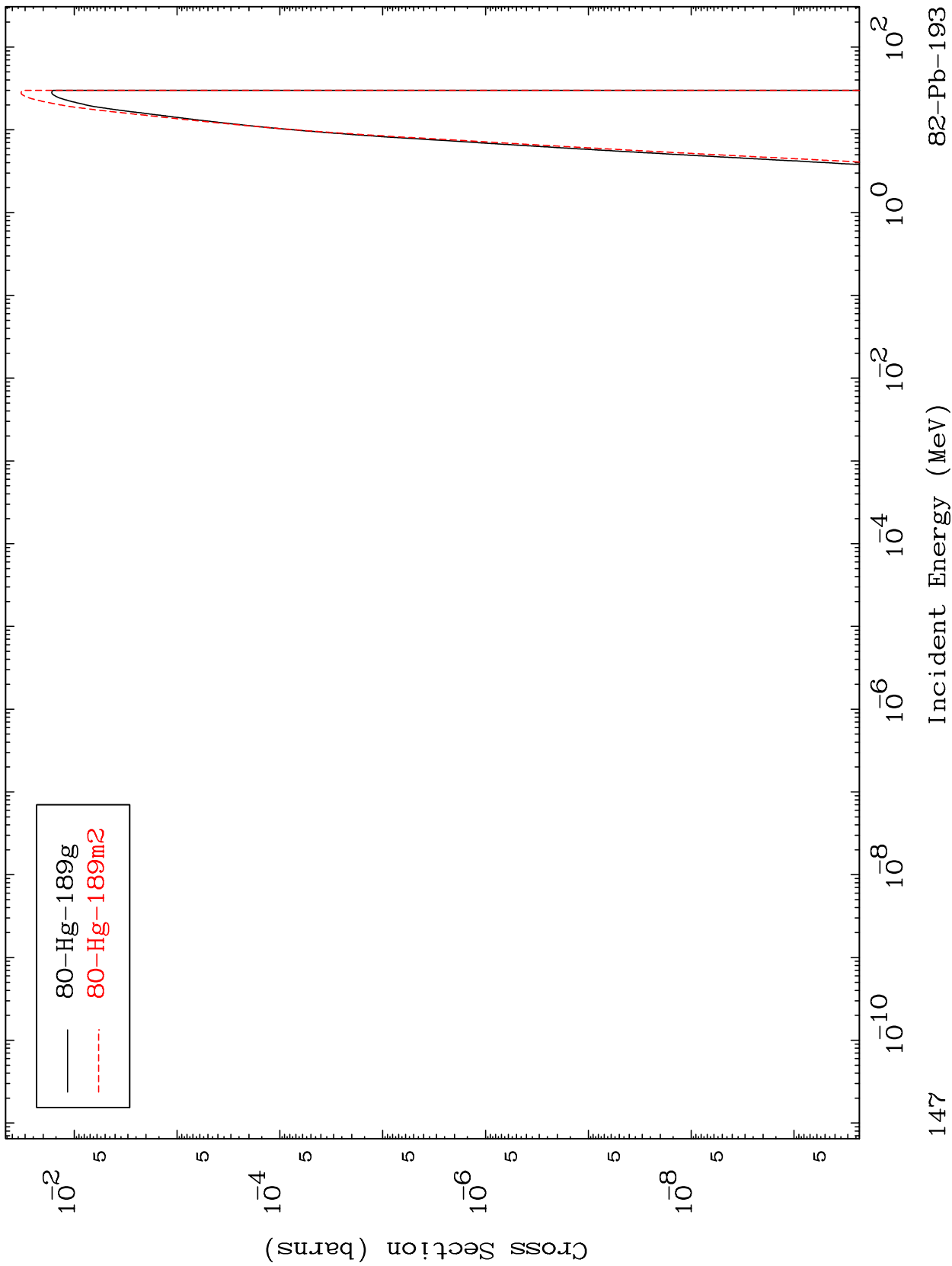


MAT 8192

$(n, n')$   $\alpha$

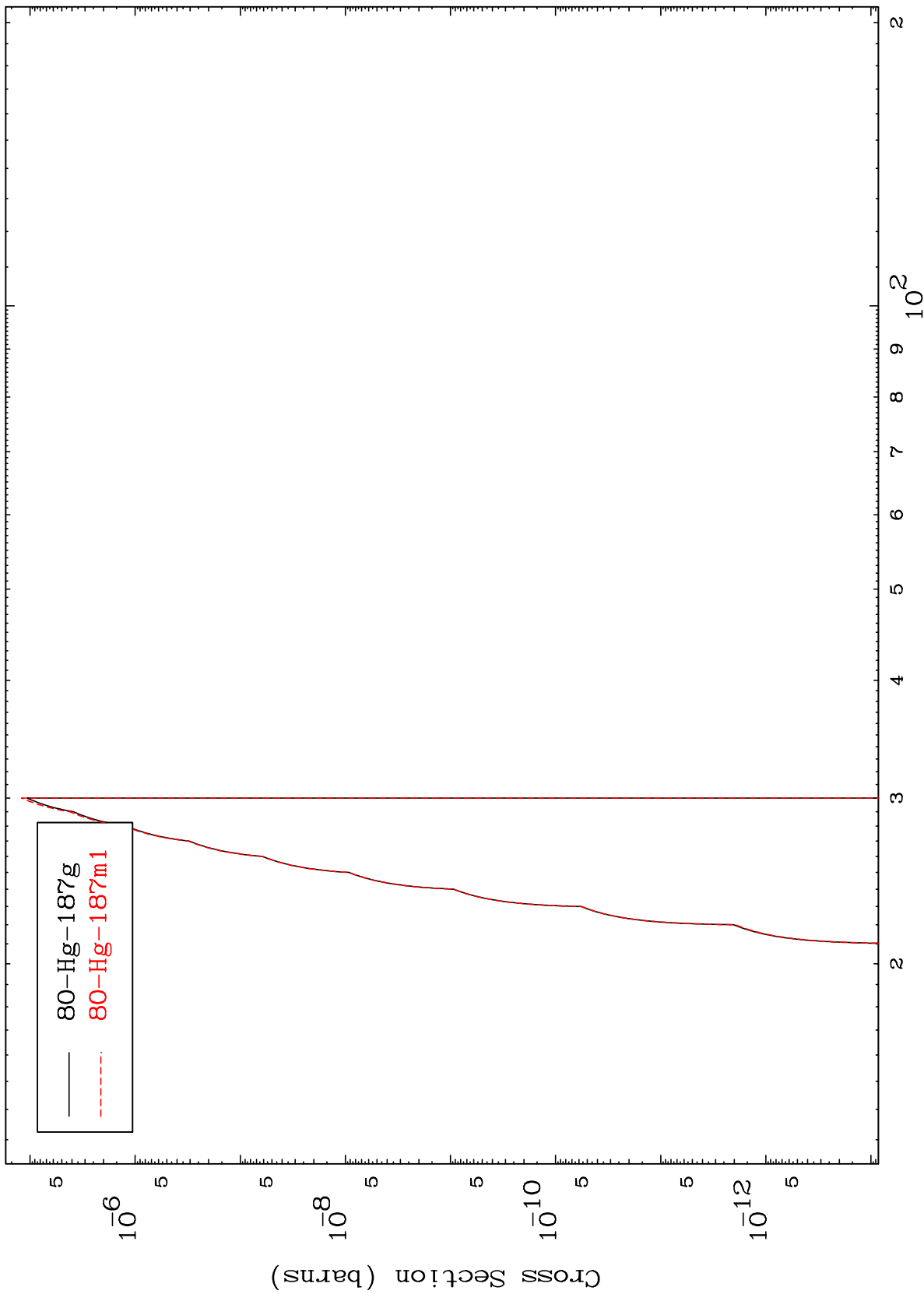
82-Pb-193

Radionuclide Production Cross Section

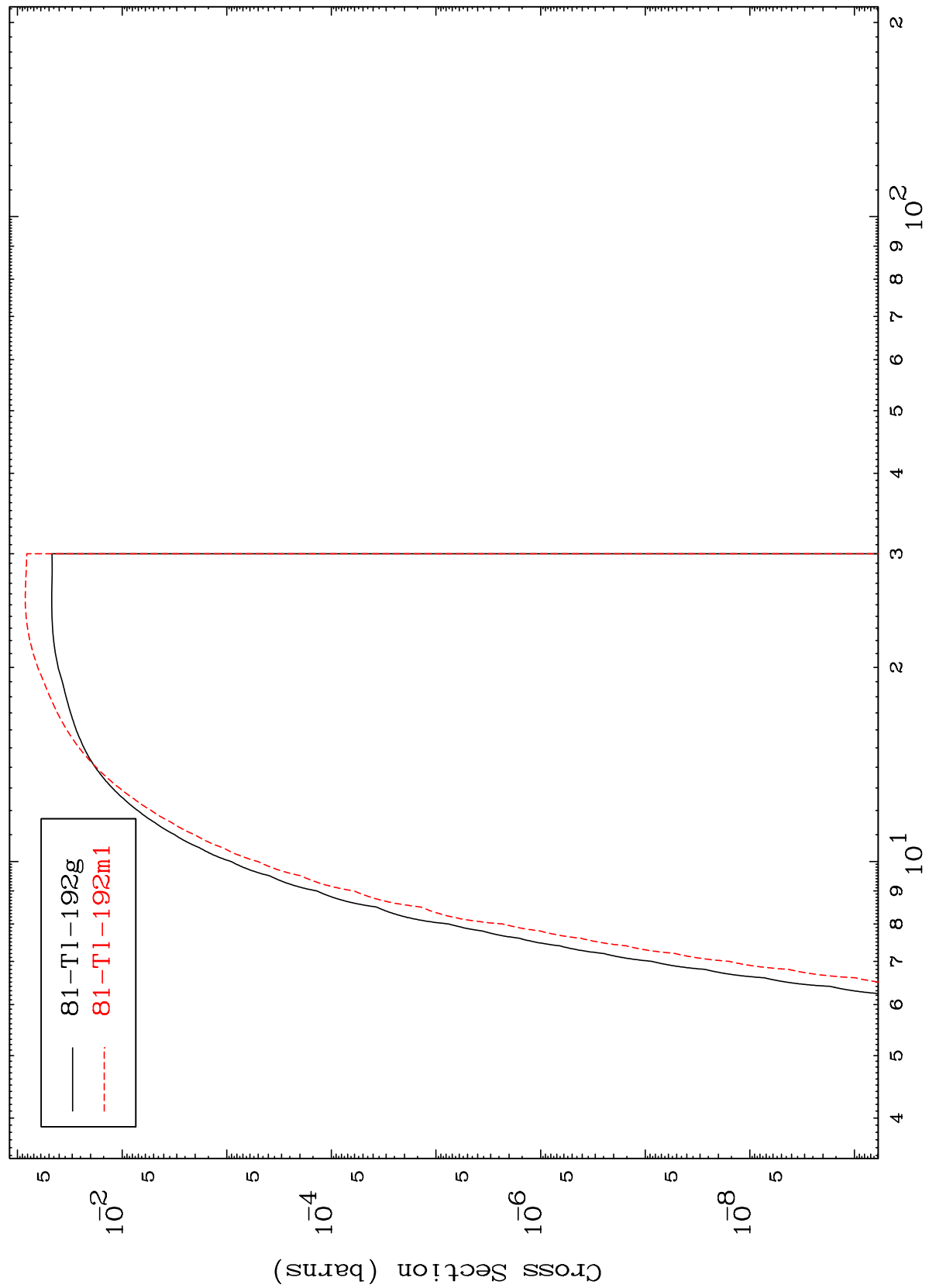


80-Hg-189g  
80-Hg-189m2

Radionuclide Production Cross Section



(n,n') p  
Radionuclide Production Cross Section

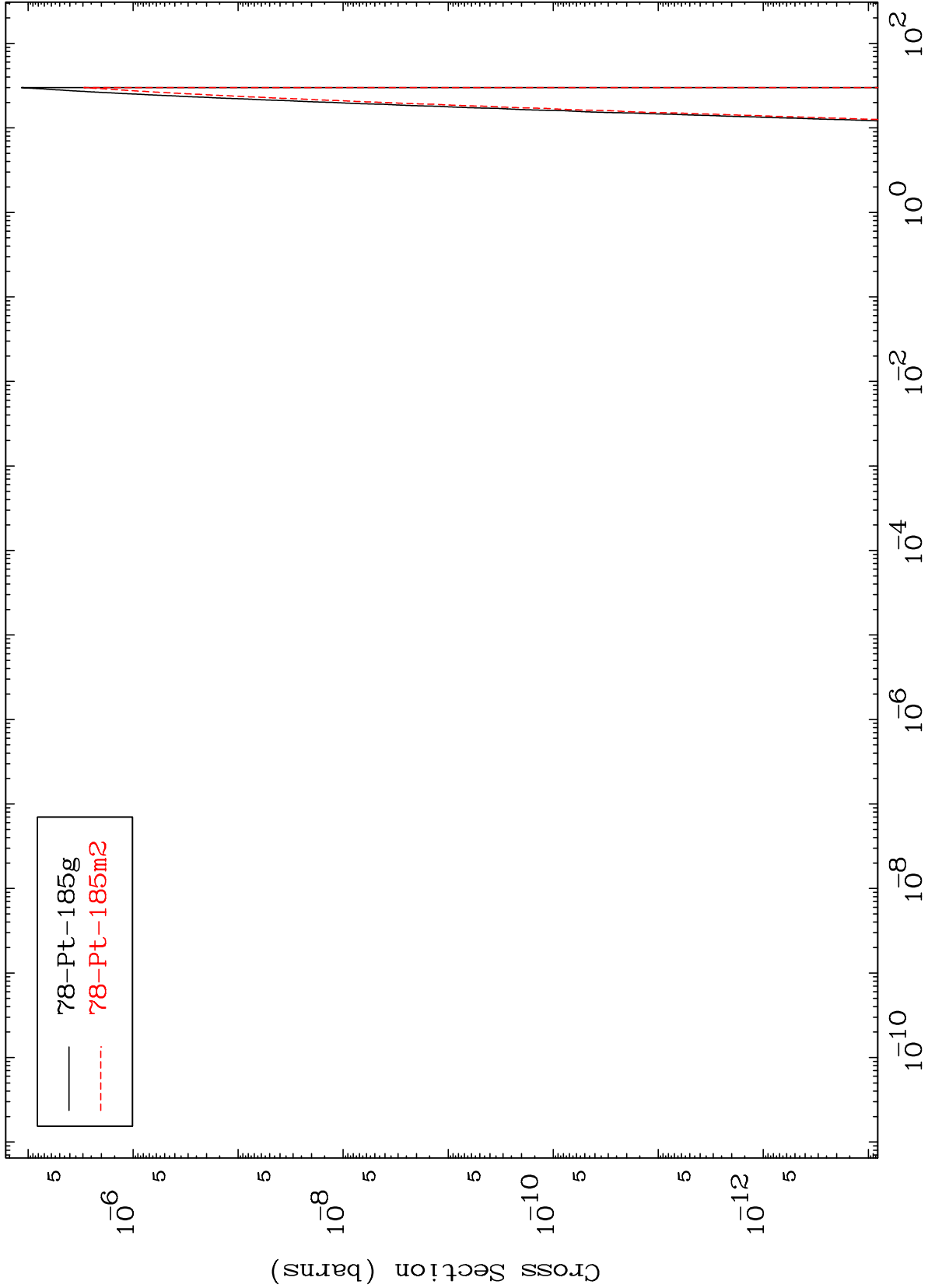


MAT 8192

(n,n') 2α

82-Pb-193

Radionuclide Production Cross Section

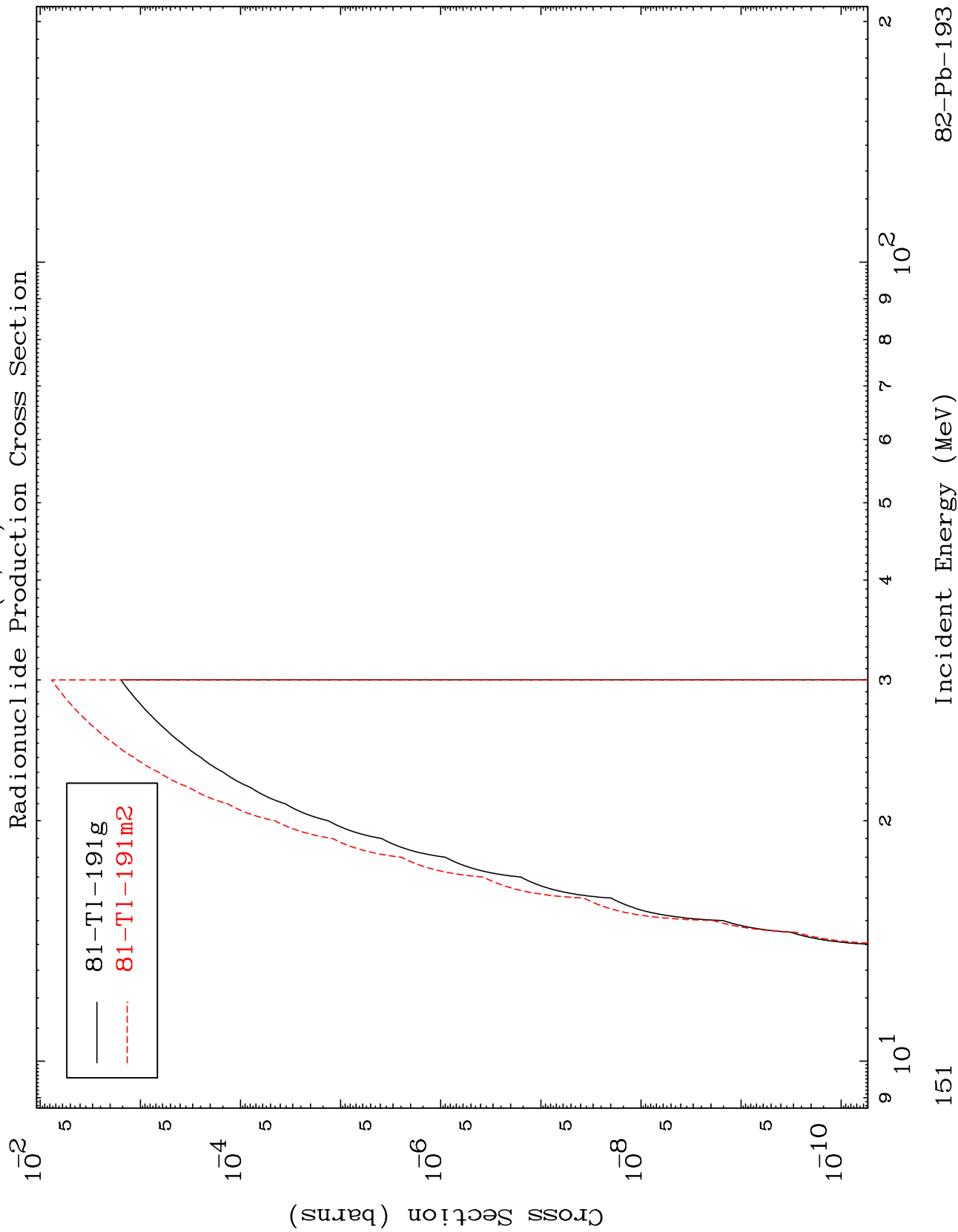


78-Pt-185g  
78-Pt-185m2

MAT 8192

(n,n') d

82-Pb-193



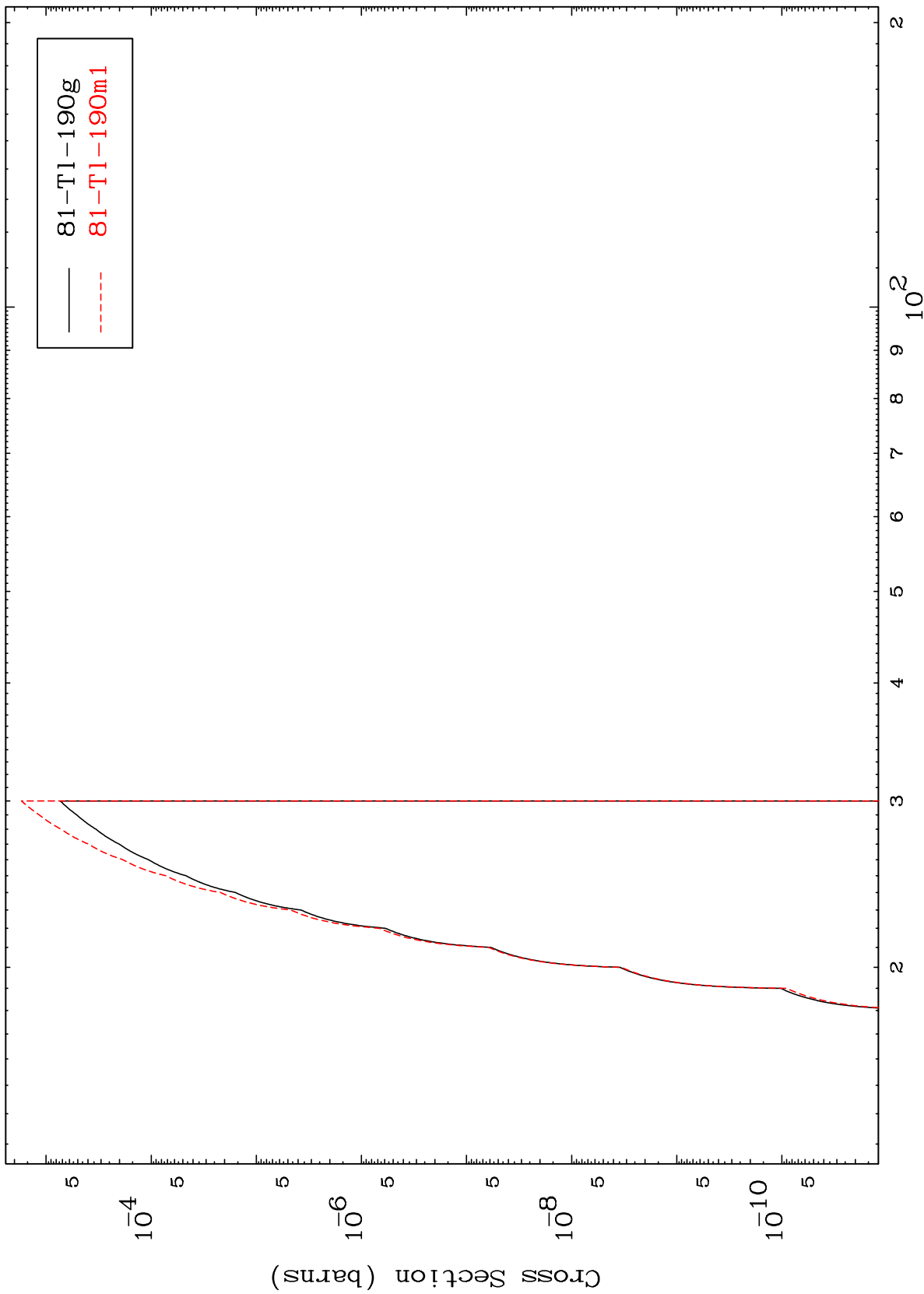
151

Incident Energy (MeV)

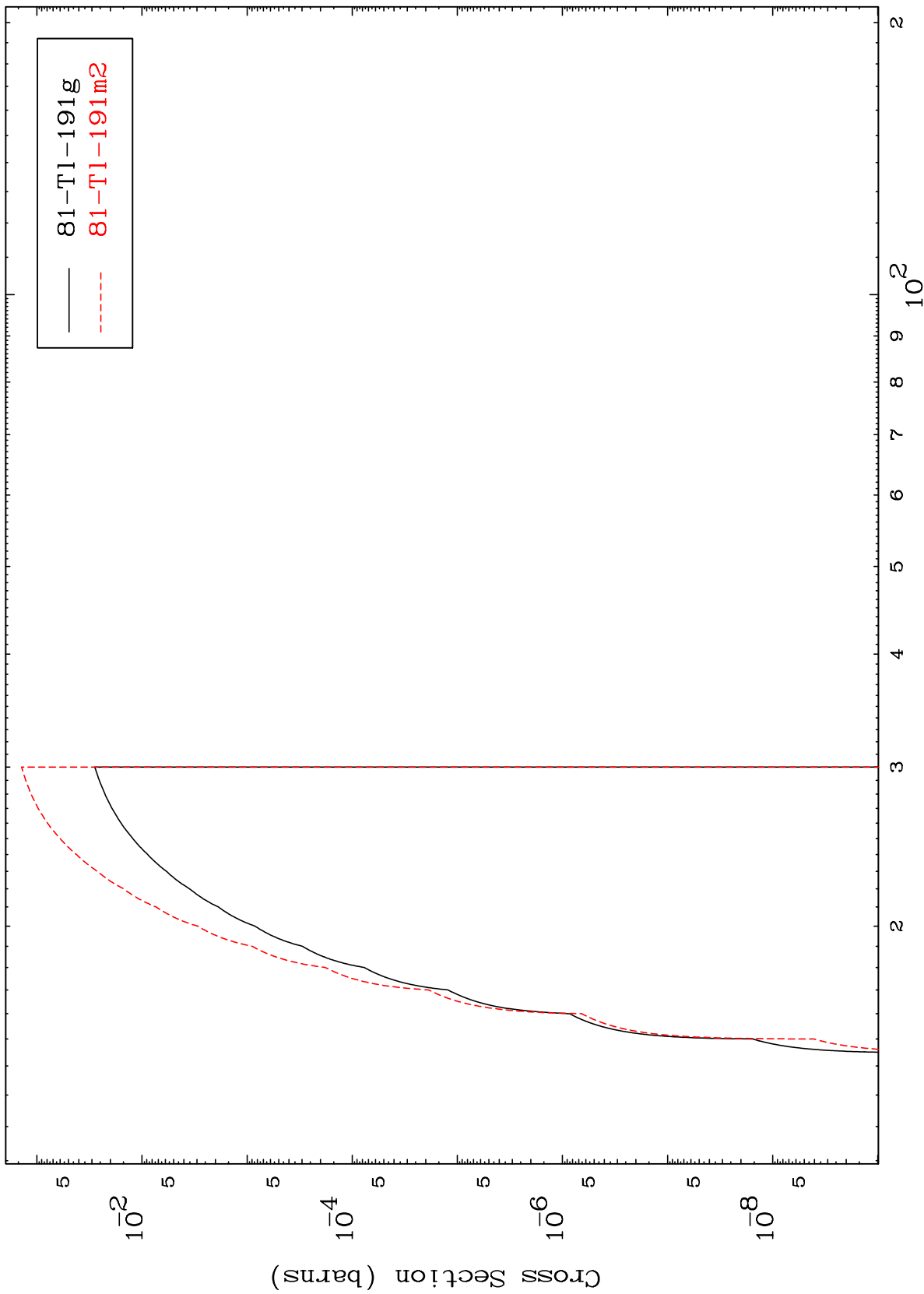
82-Pb-193



Radionuclide Production Cross Section

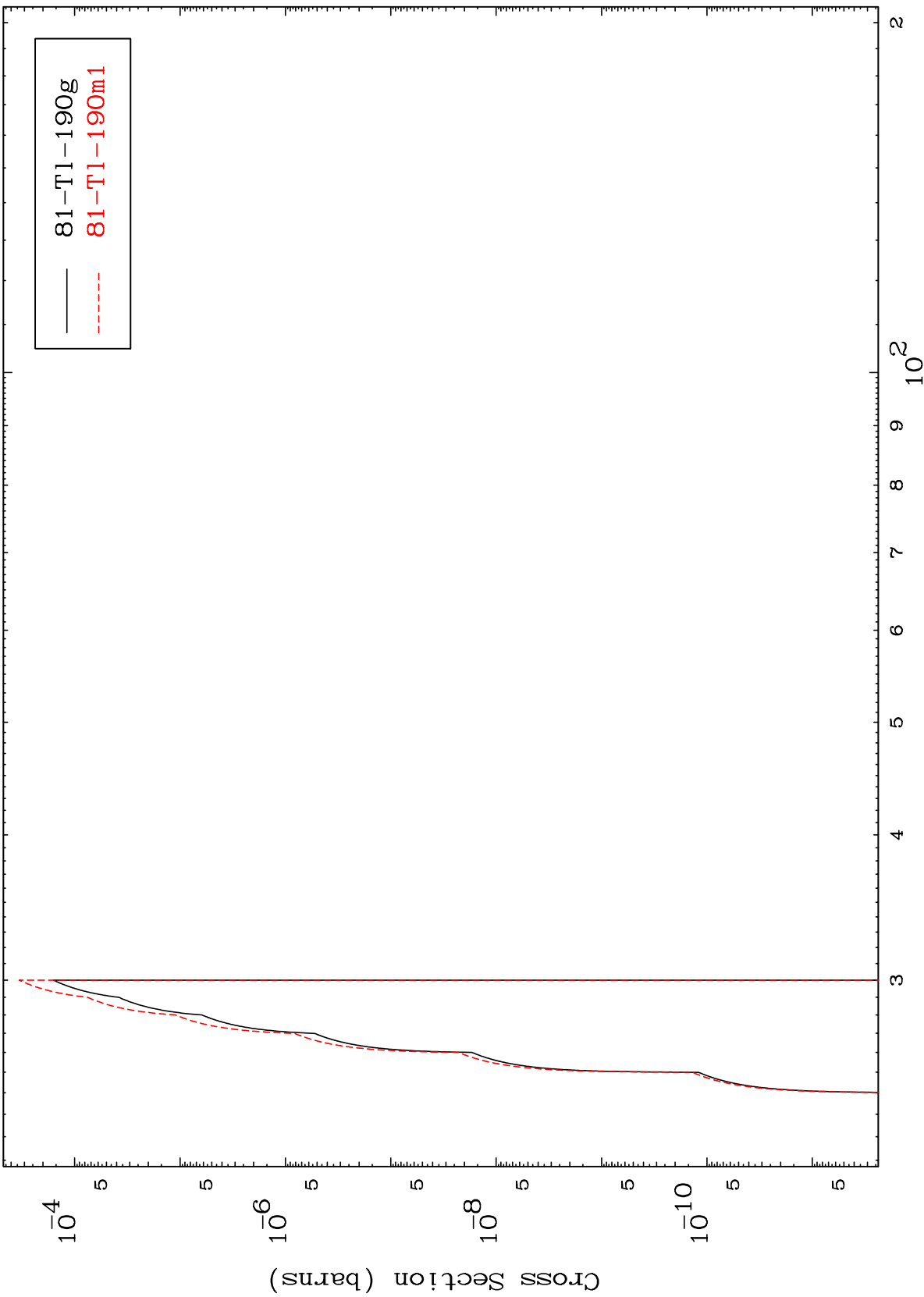


Radionuclide Production Cross Section



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

Radionuclide Production Cross Section

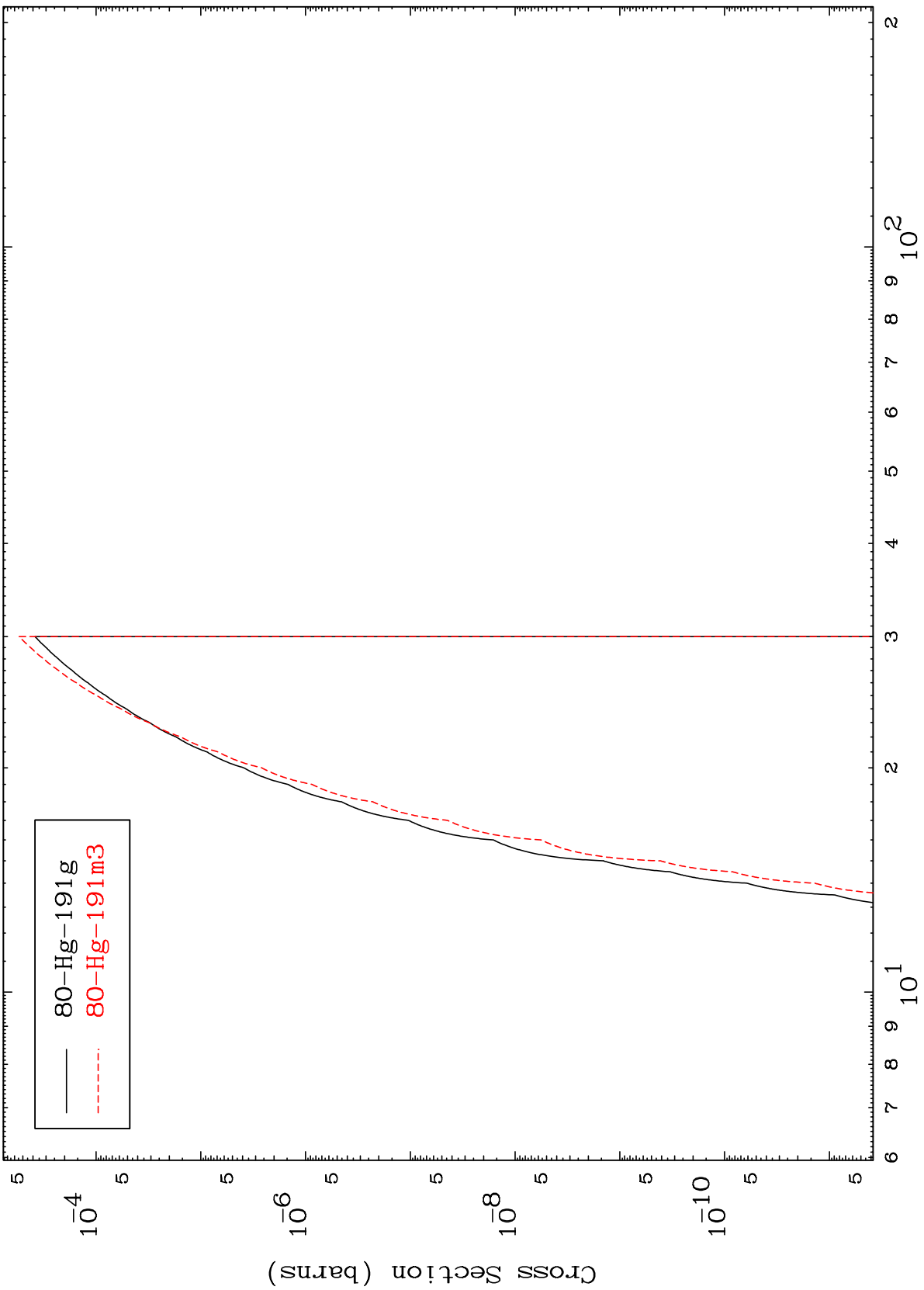


MAT 8192

(n,2n) p

82-Pb-193

Radionuclide Production Cross Section

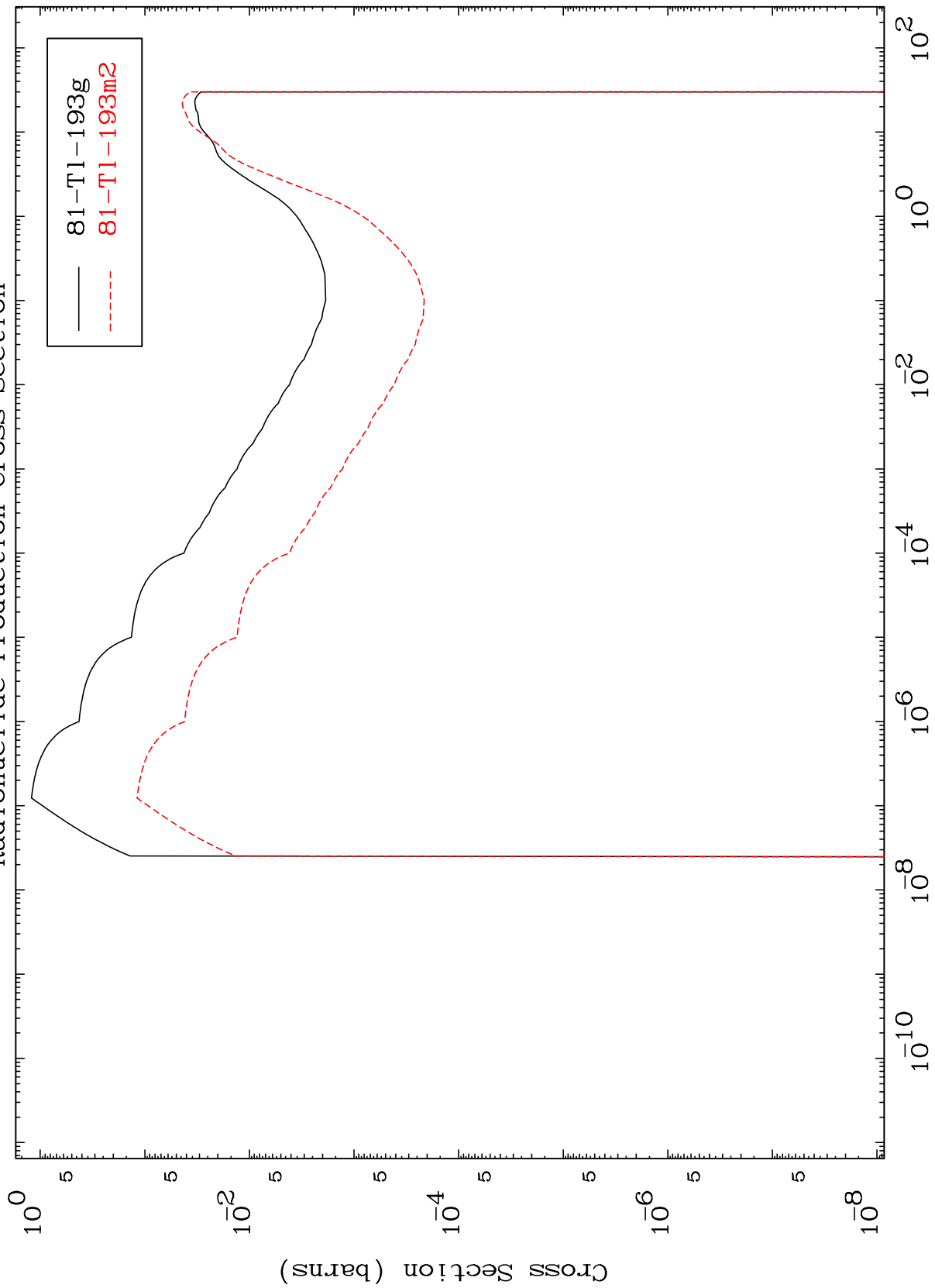


155

Incident Energy (MeV)

82-Pb-193

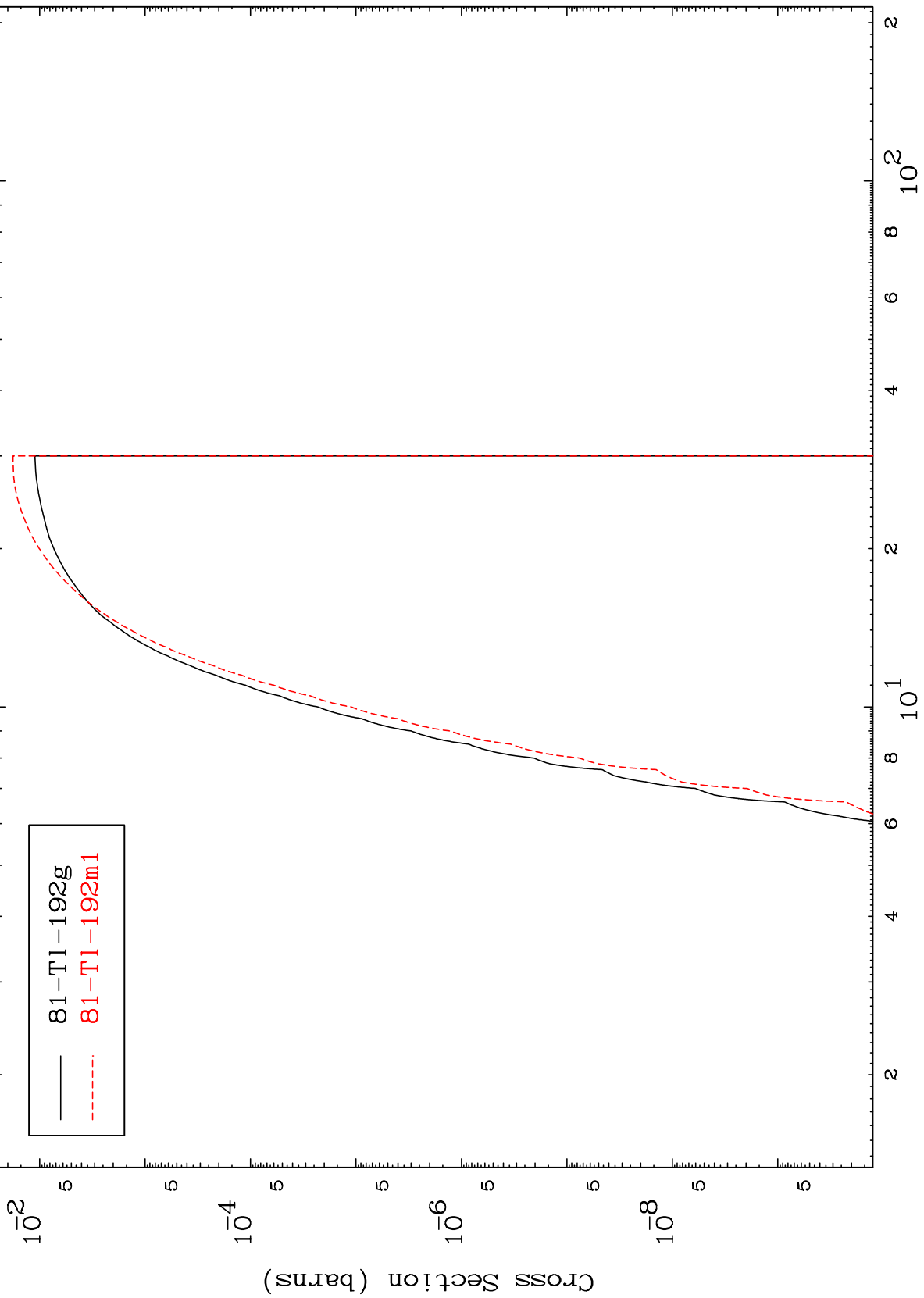
(n,p)  
Radionuclide Production Cross Section



MAT 8192

82-Pb-193

(n,d)  
Radionuclide Production Cross Section



157

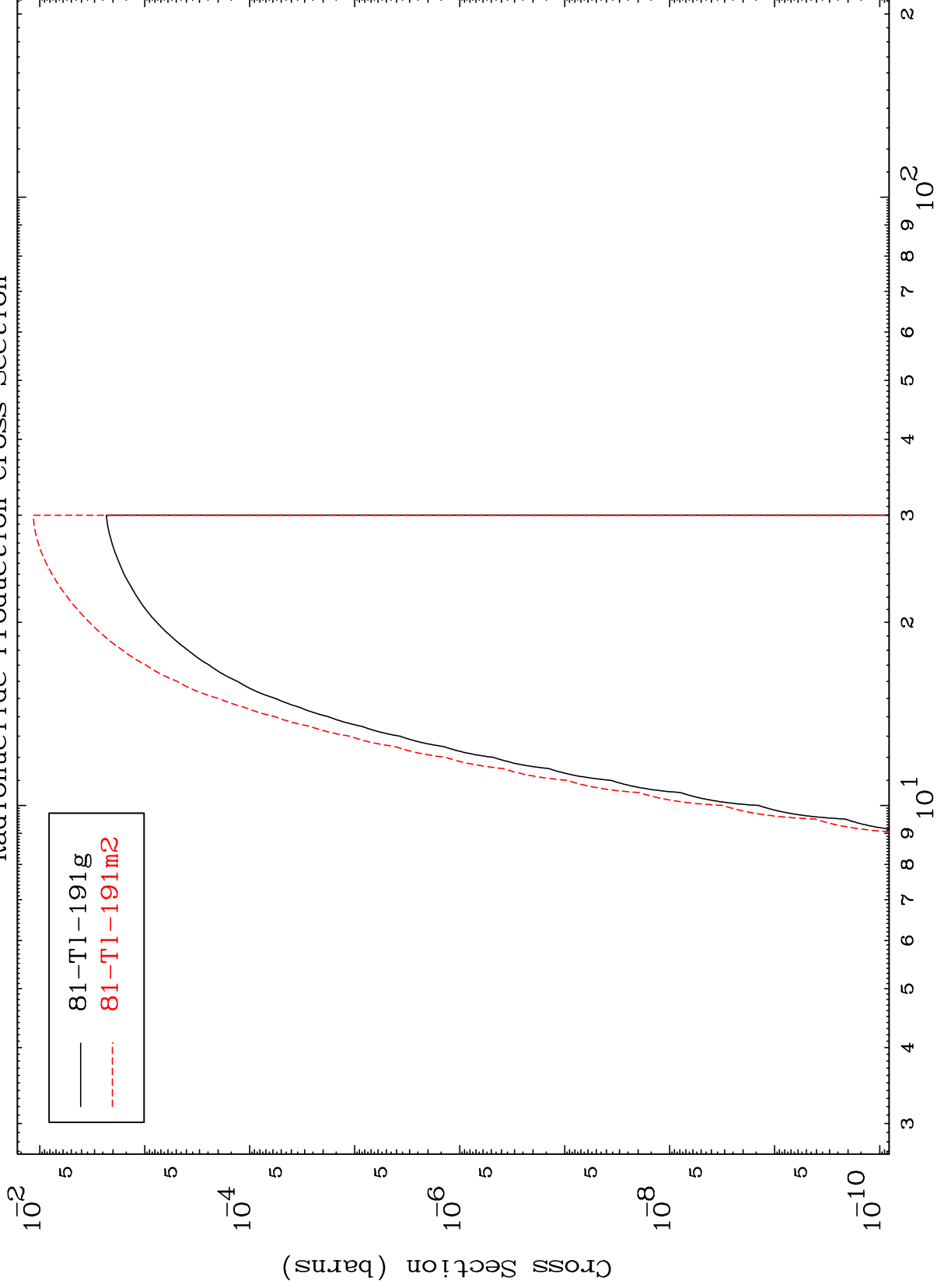
82-Pb-193

Incident Energy (MeV)

MAT 8192

82-Pb-193

(n, t)  
Radionuclide Production Cross Section



82-Pb-193

Incident Energy (MeV)

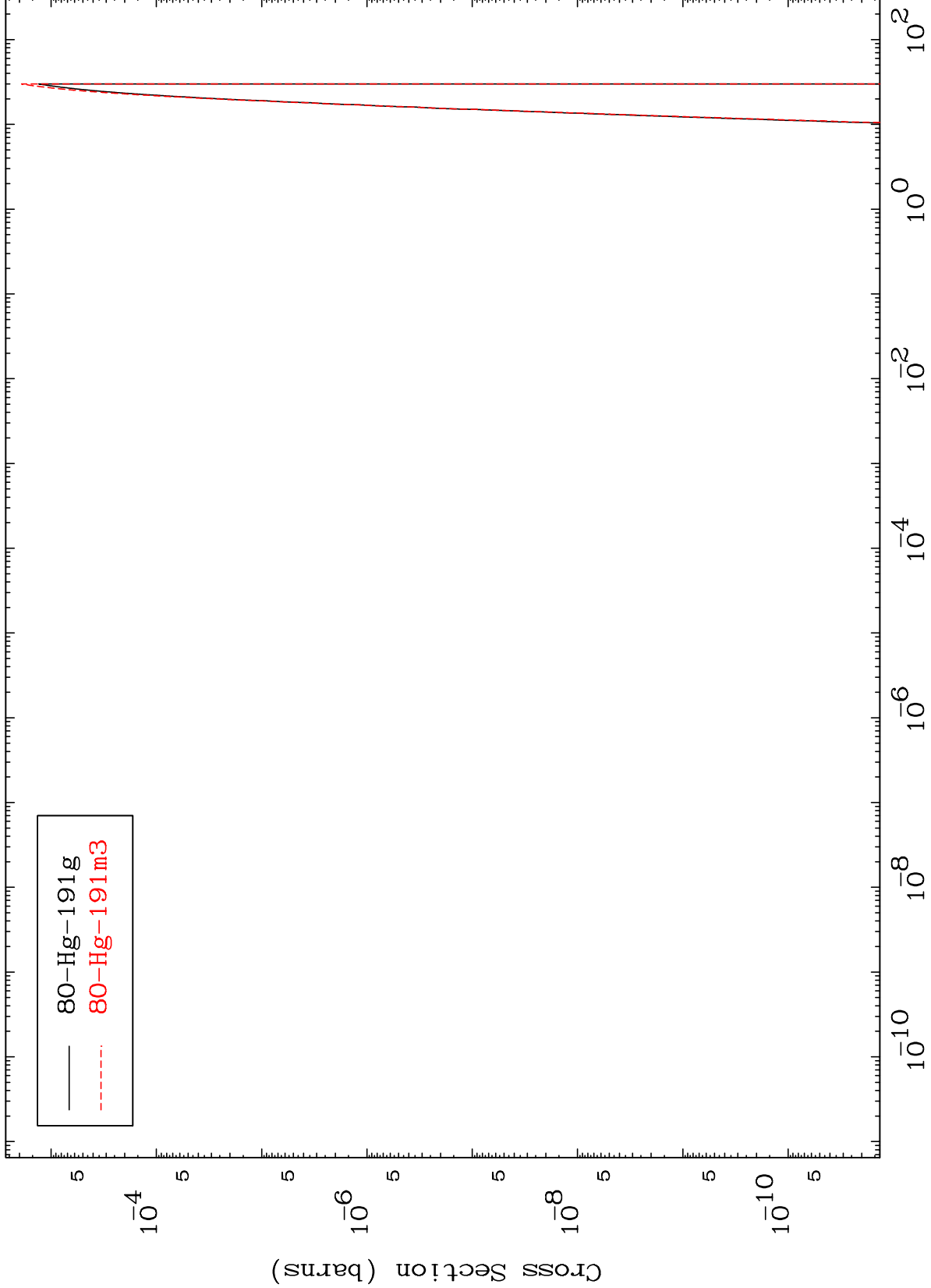
158

MAT 8192

(n,He-3)

82-Pb-193

Radionuclide Production Cross Section



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

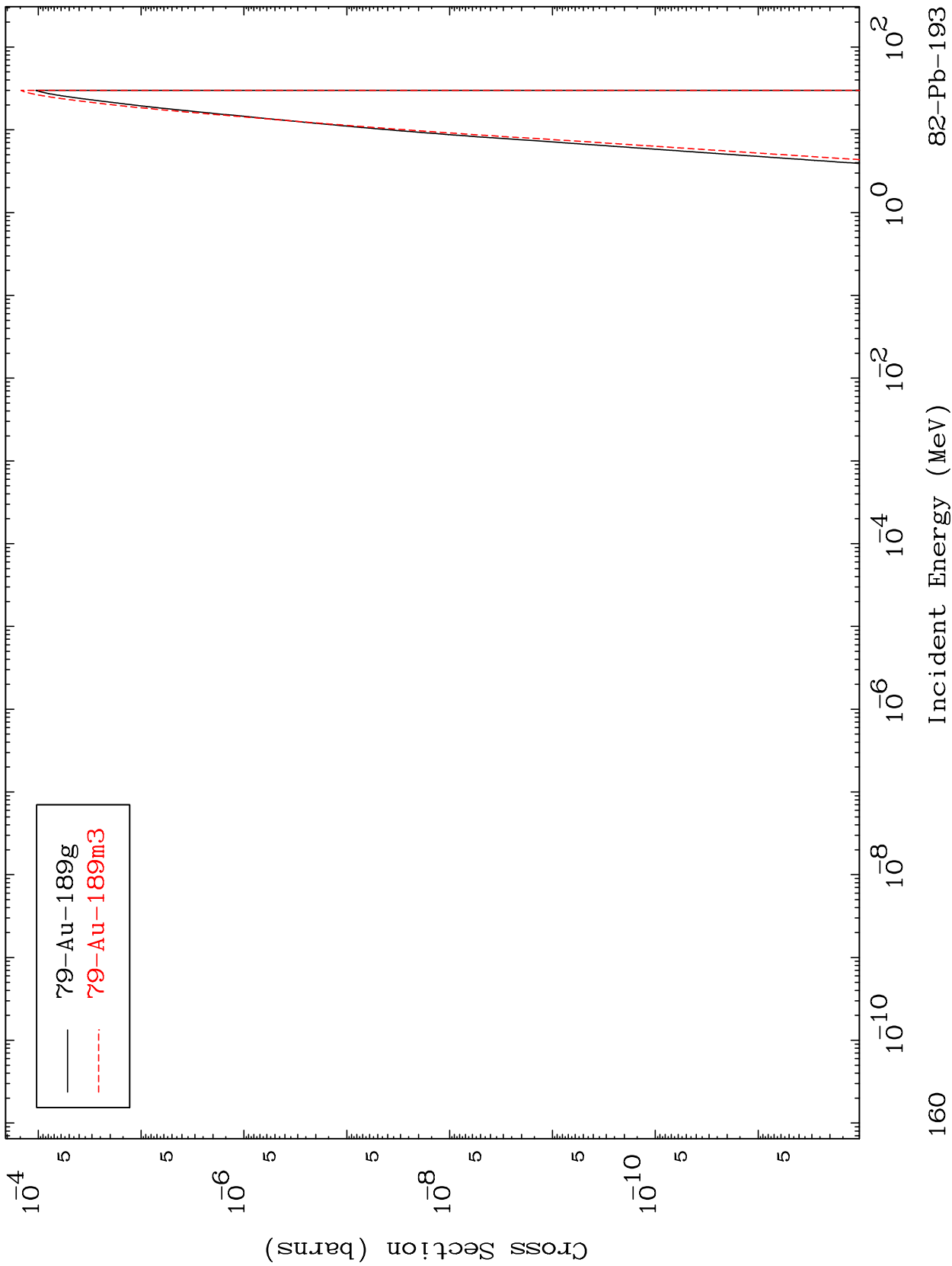


MAT 8192

(n,p)  $\alpha$

82-Pb-193

Radionuclide Production Cross Section



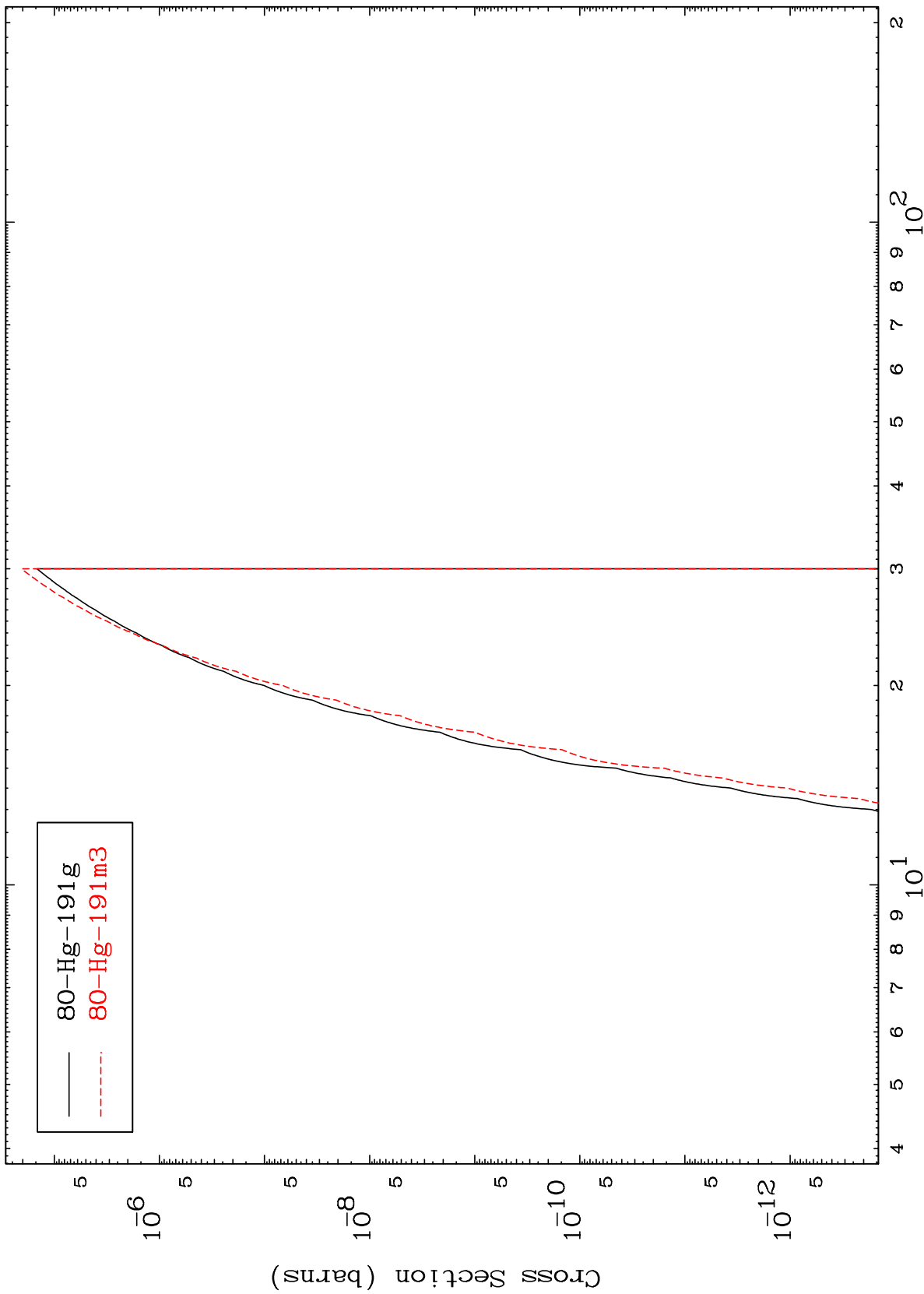
79-Au-189g  
79-Au-189m3

MAT 8192

(n,p) d

82-Pb-193

Radionuclide Production Cross Section



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

161

Incident Energy (MeV)

82-Pb-193