

Program EVALPLOT
(Version 2017-1)

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

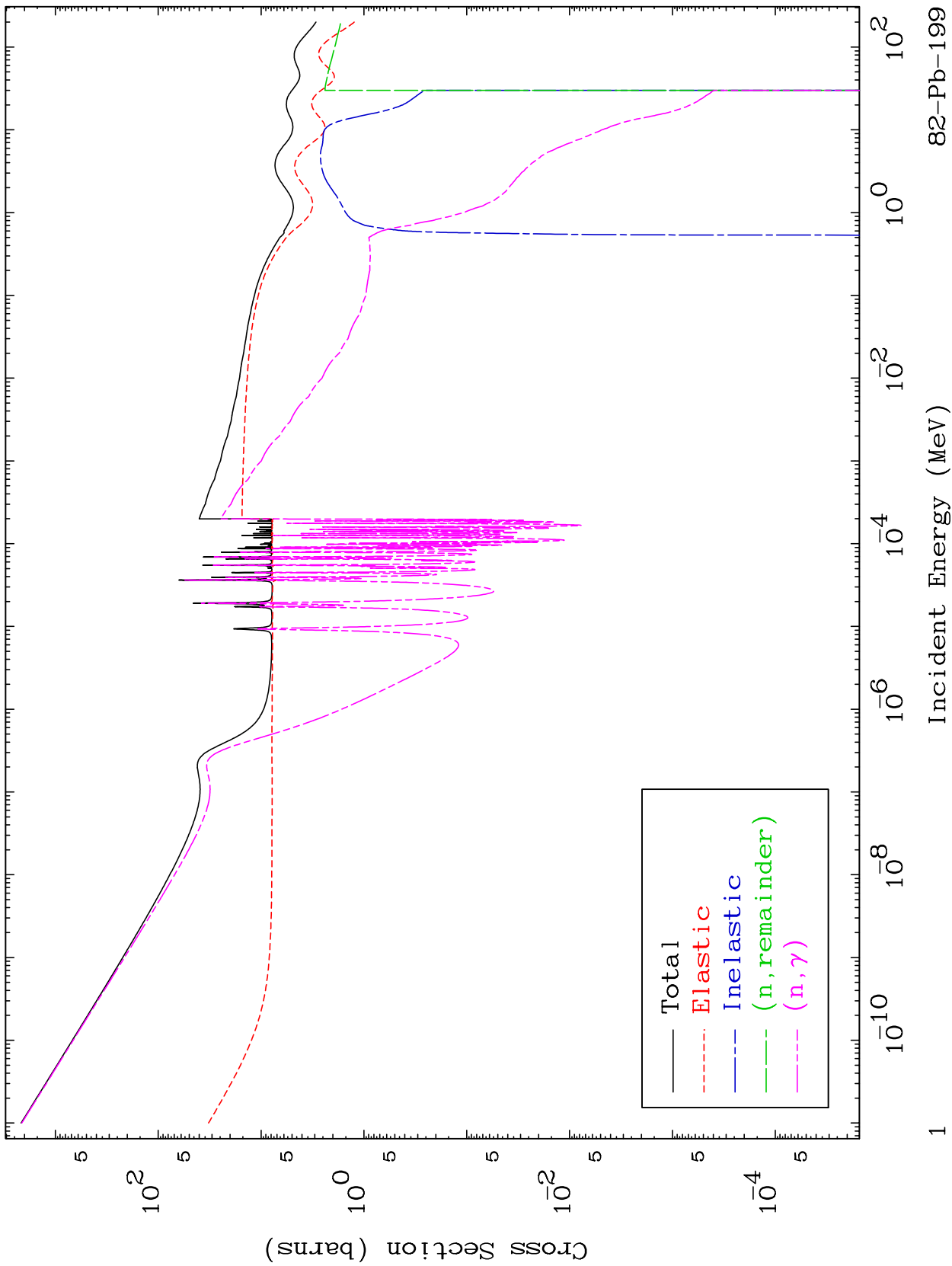
Press Mouse Button to Start

MAT 8210

Major

293 Kelvin Cross Sections

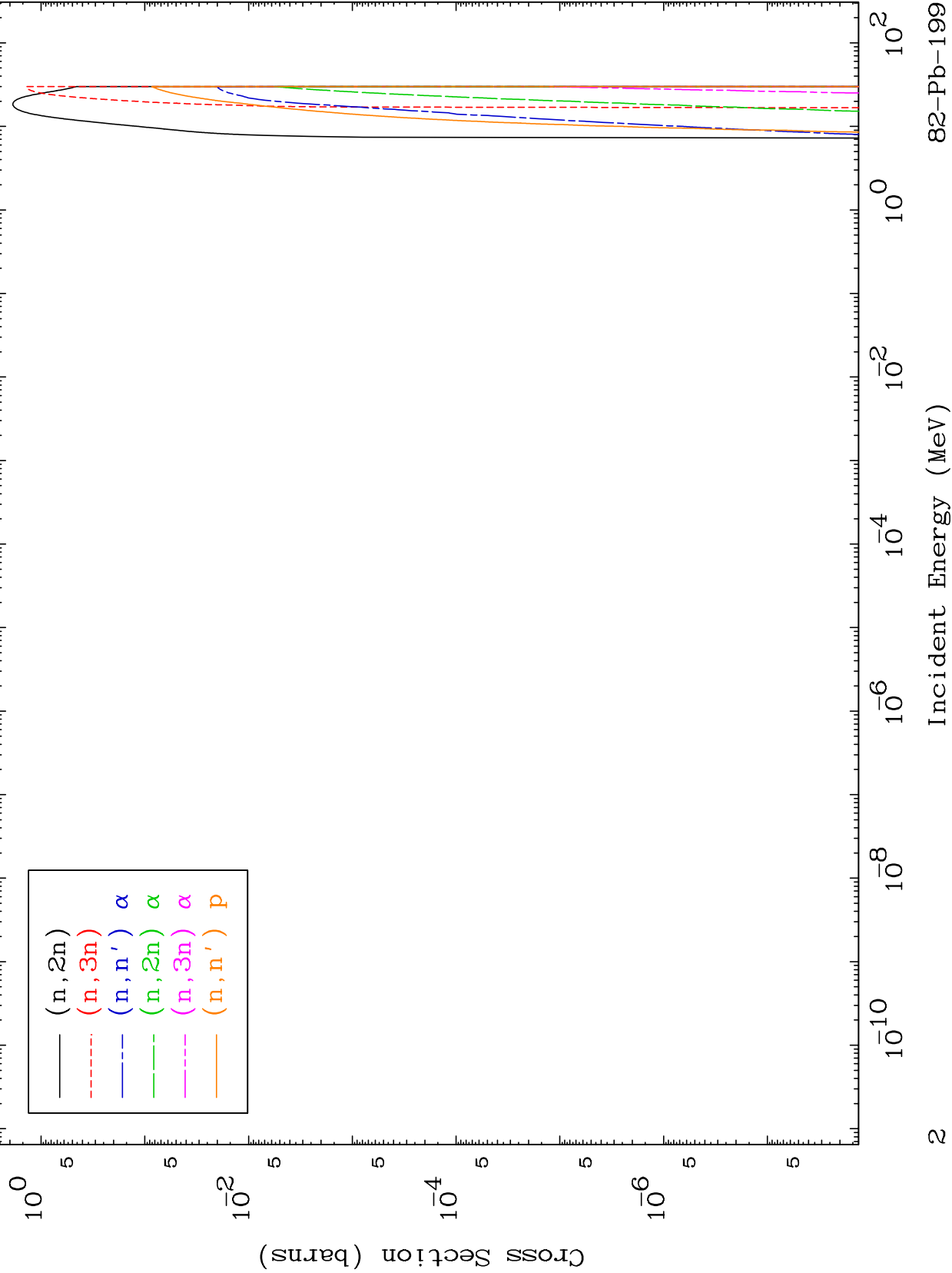
82-Pb-199

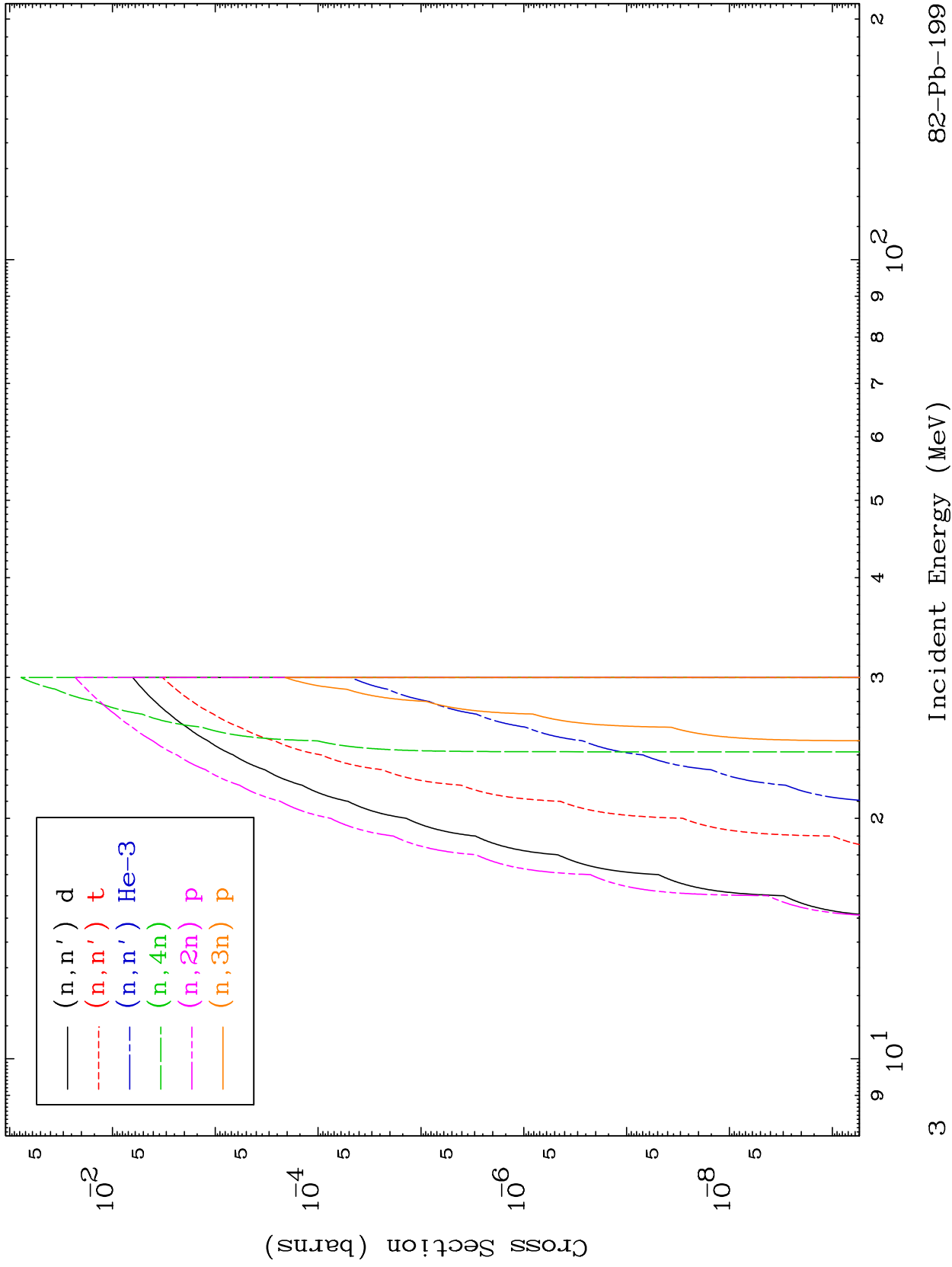


MAT 8210

Neutron Production
293 Kelvin Cross Sections

82-Pb-199

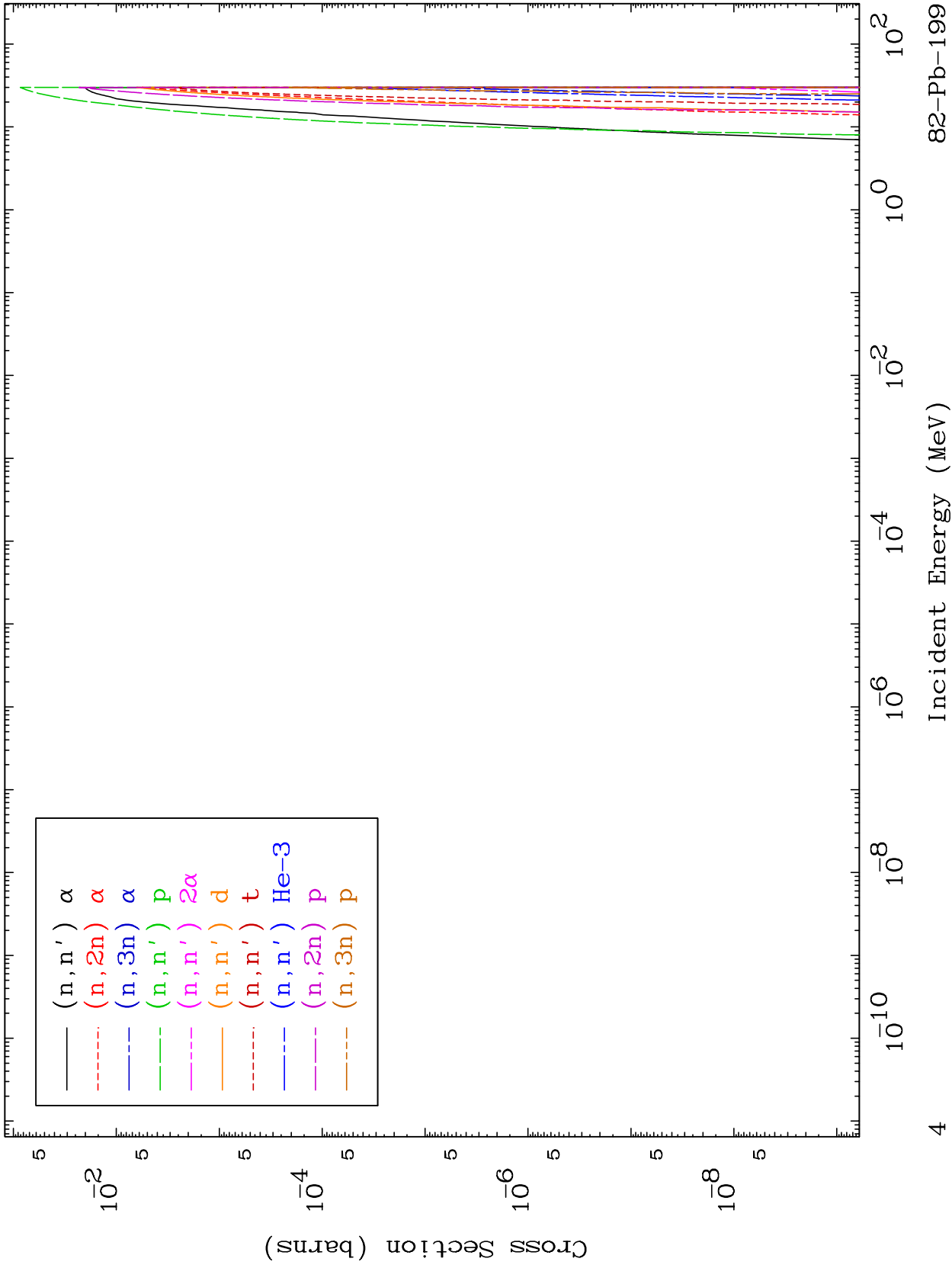




MAT 8210

Charged Particle
293 Kelvin Cross Sections

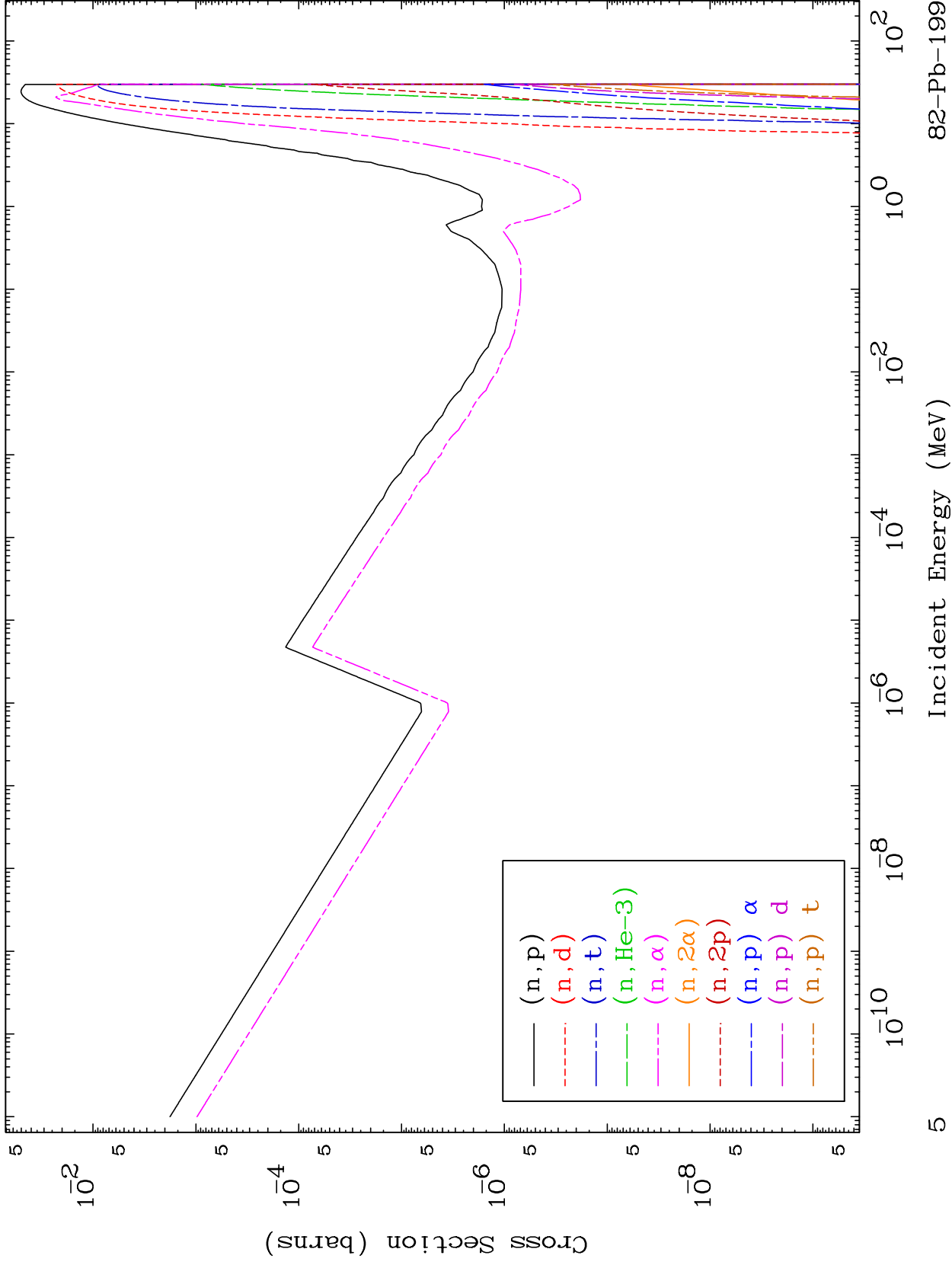
82-Pb-199

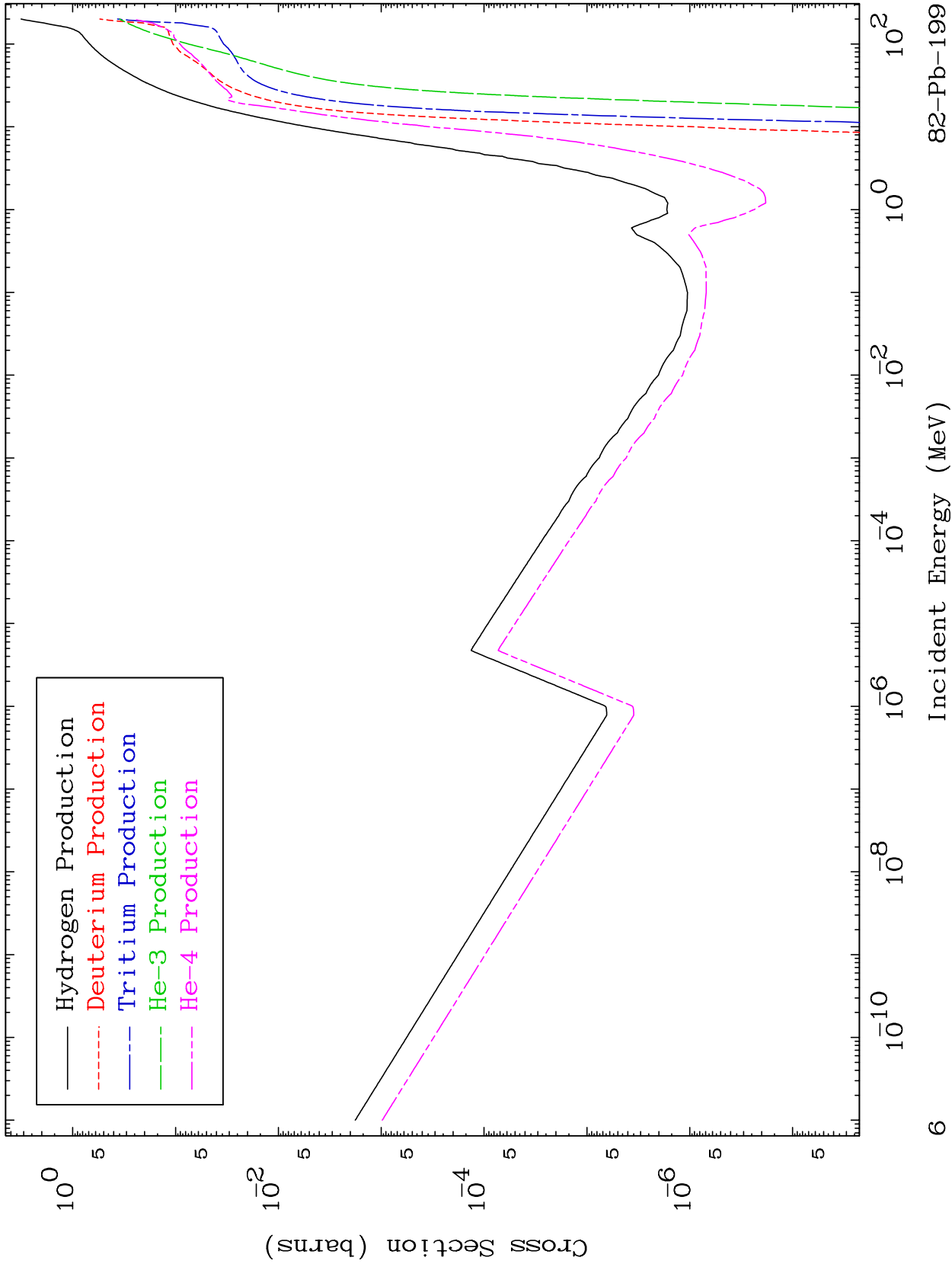


MAT 8210

Charged Particle
293 Kelvin Cross Sections

82-Pb-199



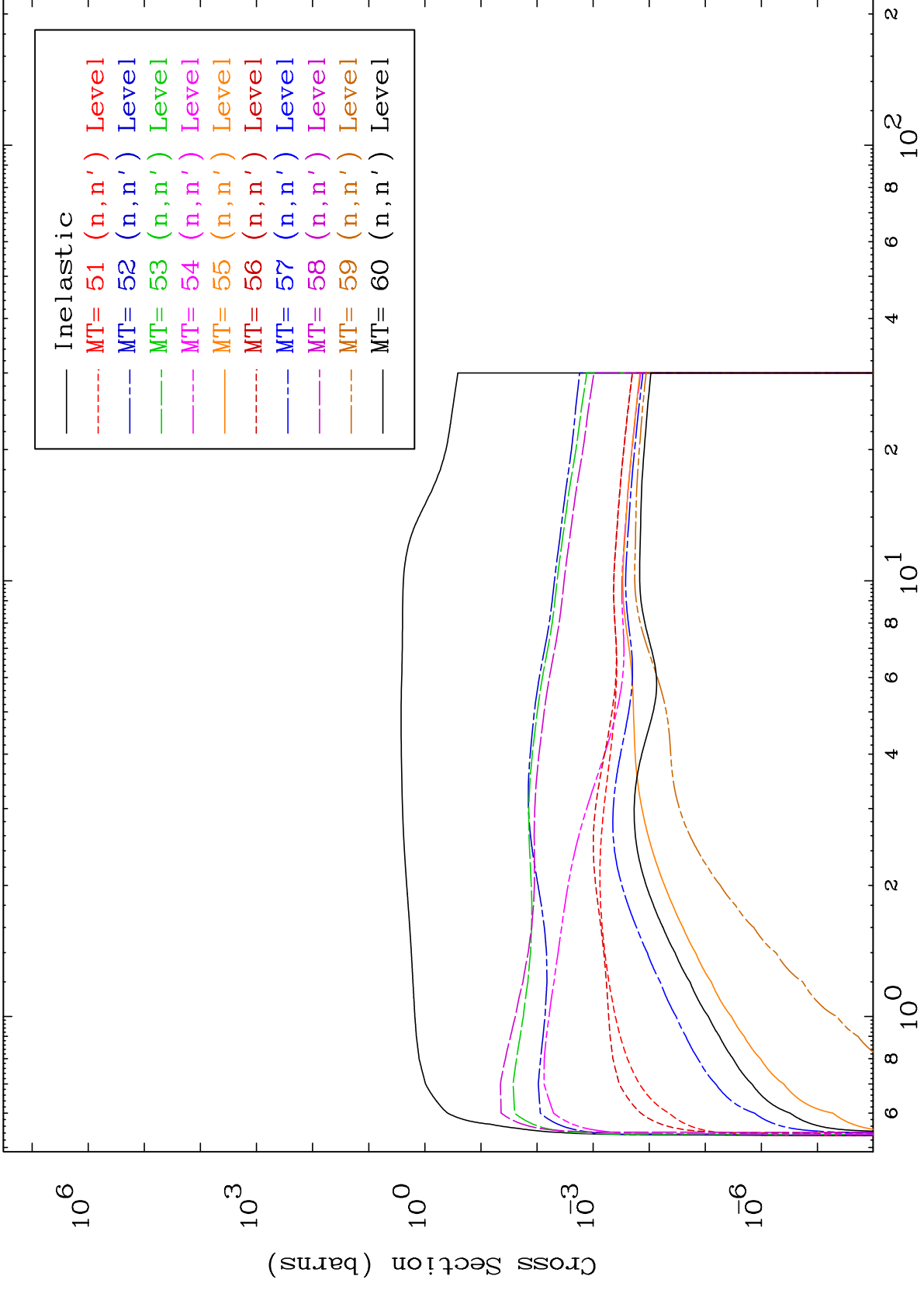


MAT 8210

(n,n') Level

82-Pb-199

293 Kelvin Cross Sections

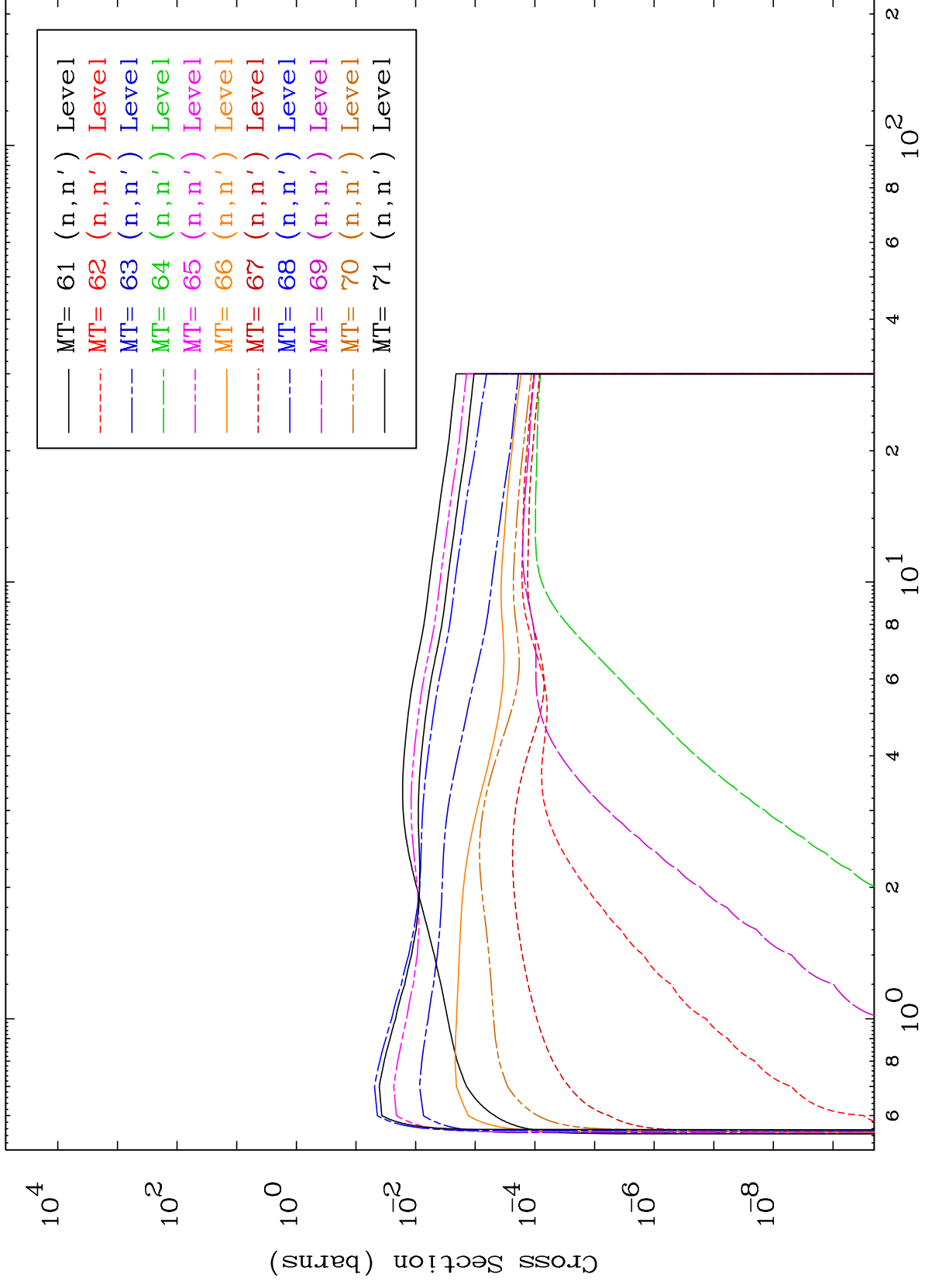


MAT 8210

(n,n') Level

82-Pb-199

293 Kelvin Cross Sections

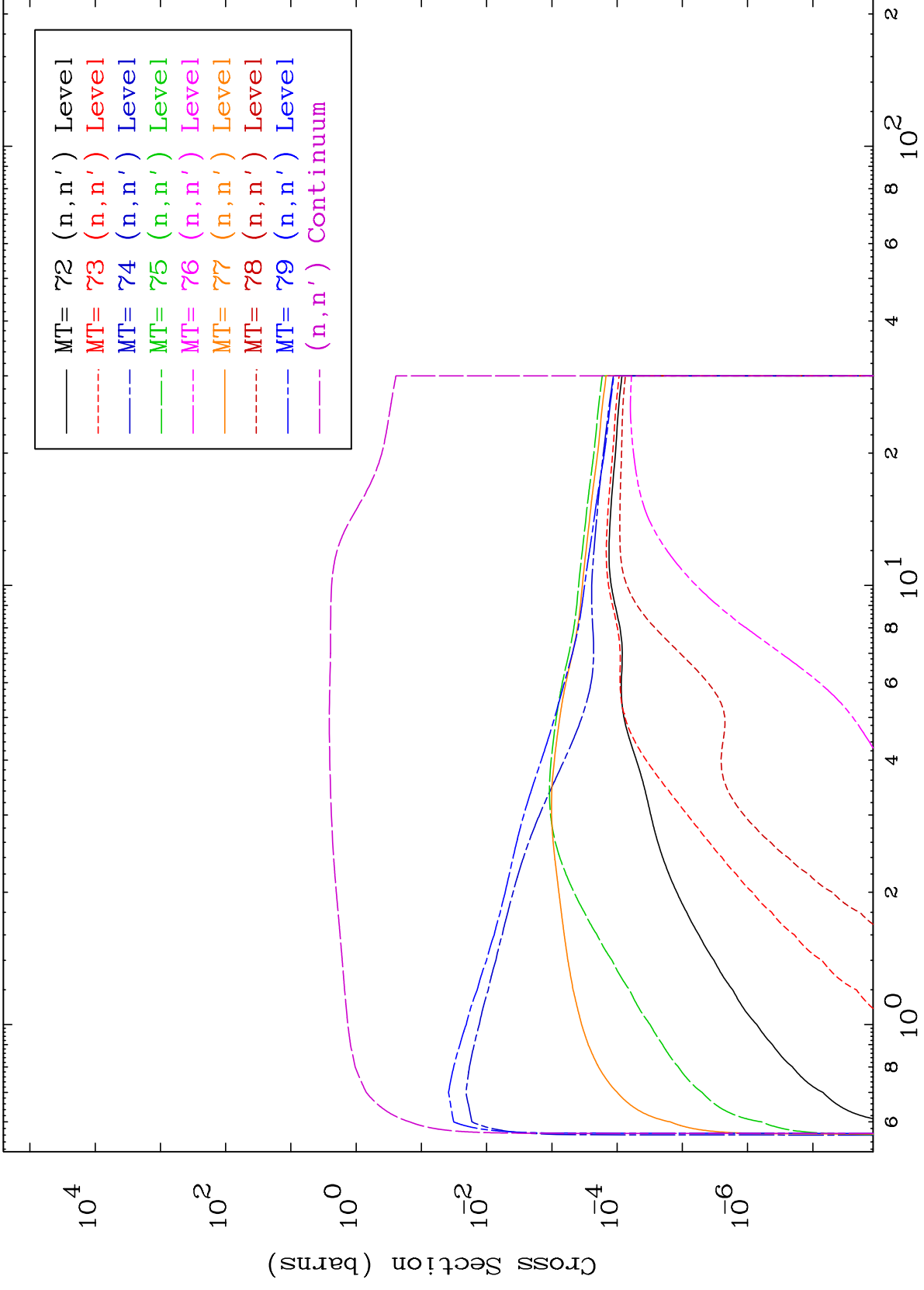


8

Incident Energy (MeV)

82-Pb-199

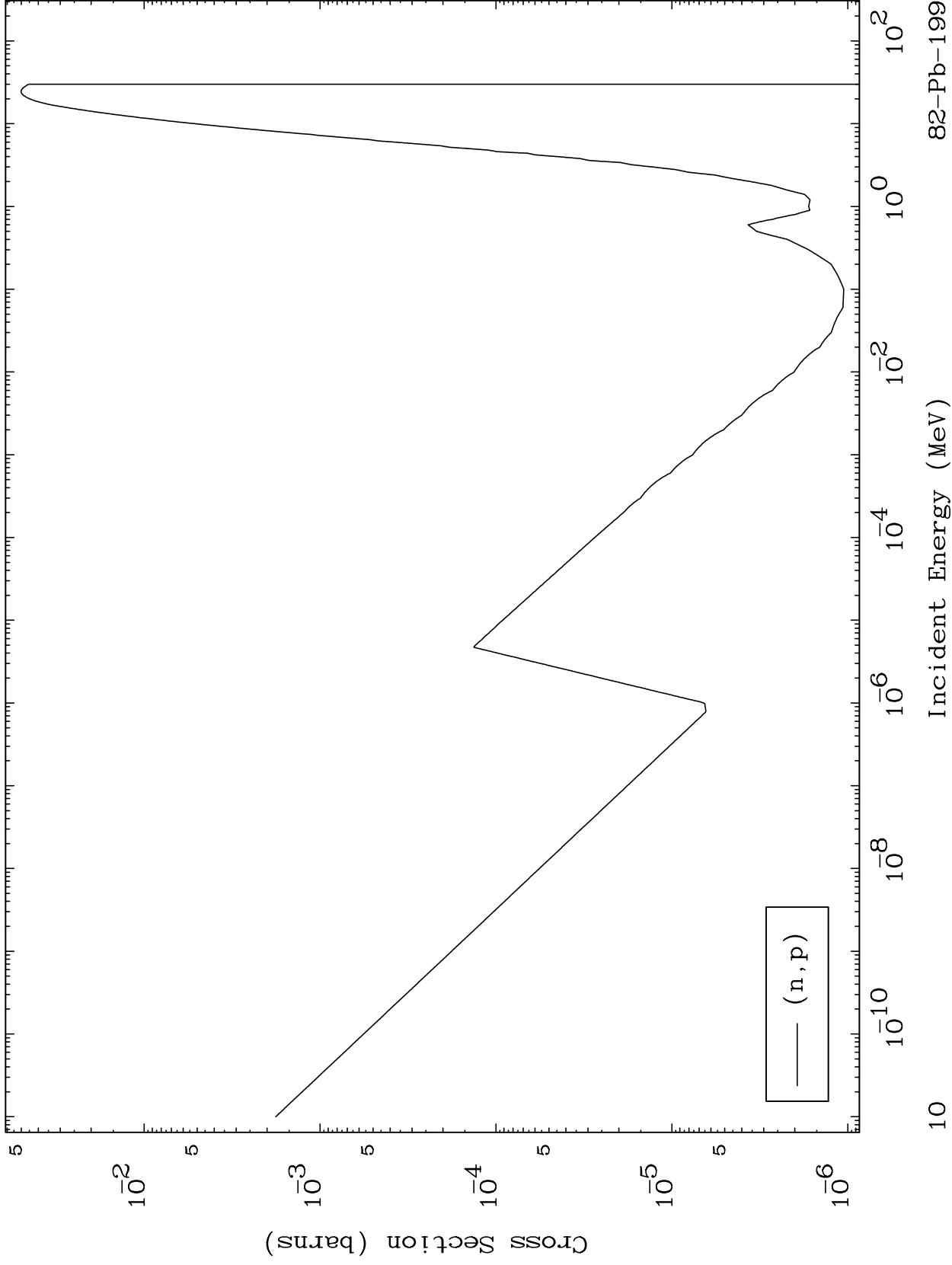
293 Kelvin Cross Sections



MAT 8210

(n,p) Levels
293 Kelvin Cross Sections

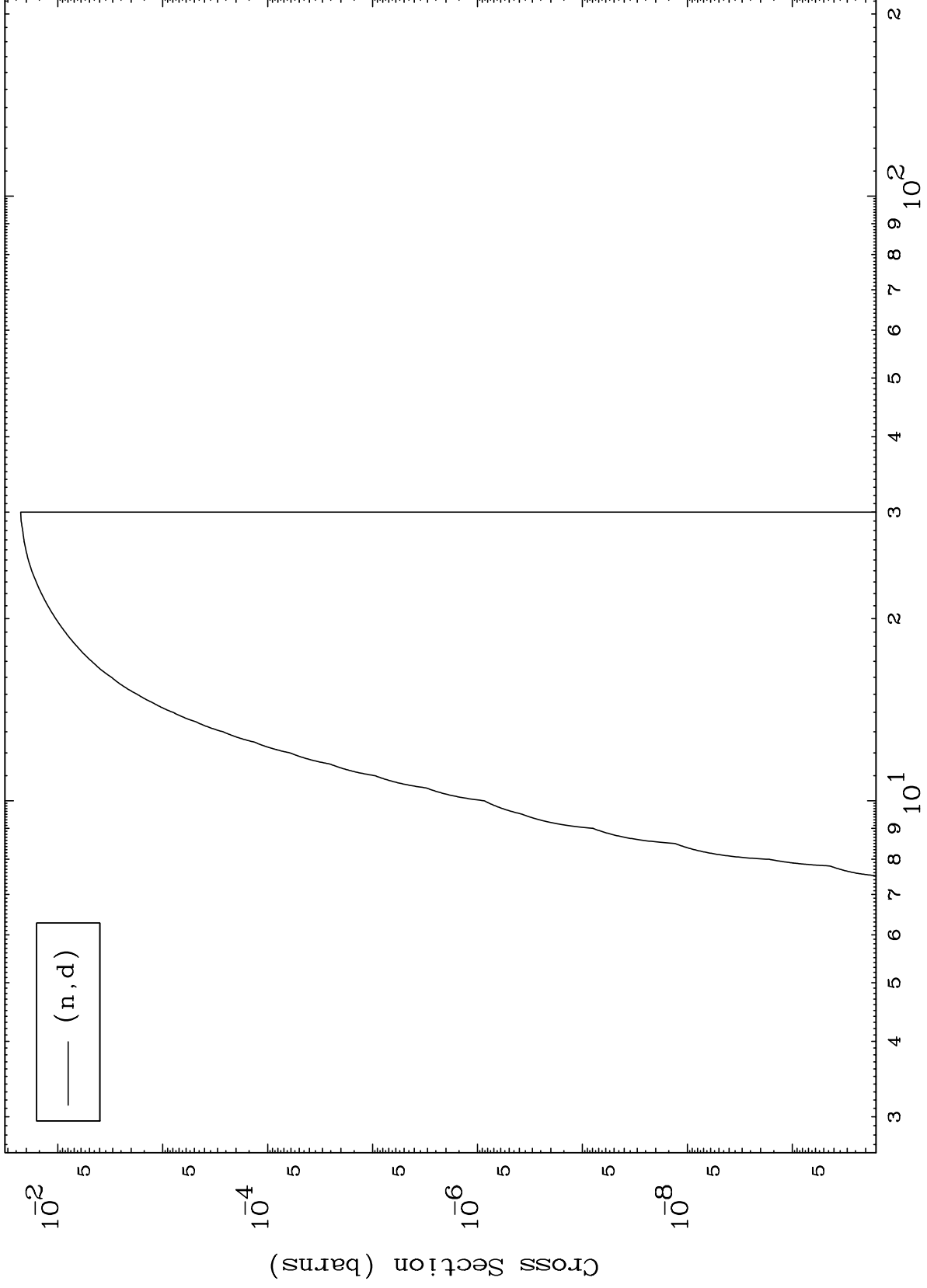
82-Pb-199



MAT 8210

(n,d) Levels
293 Kelvin Cross Sections

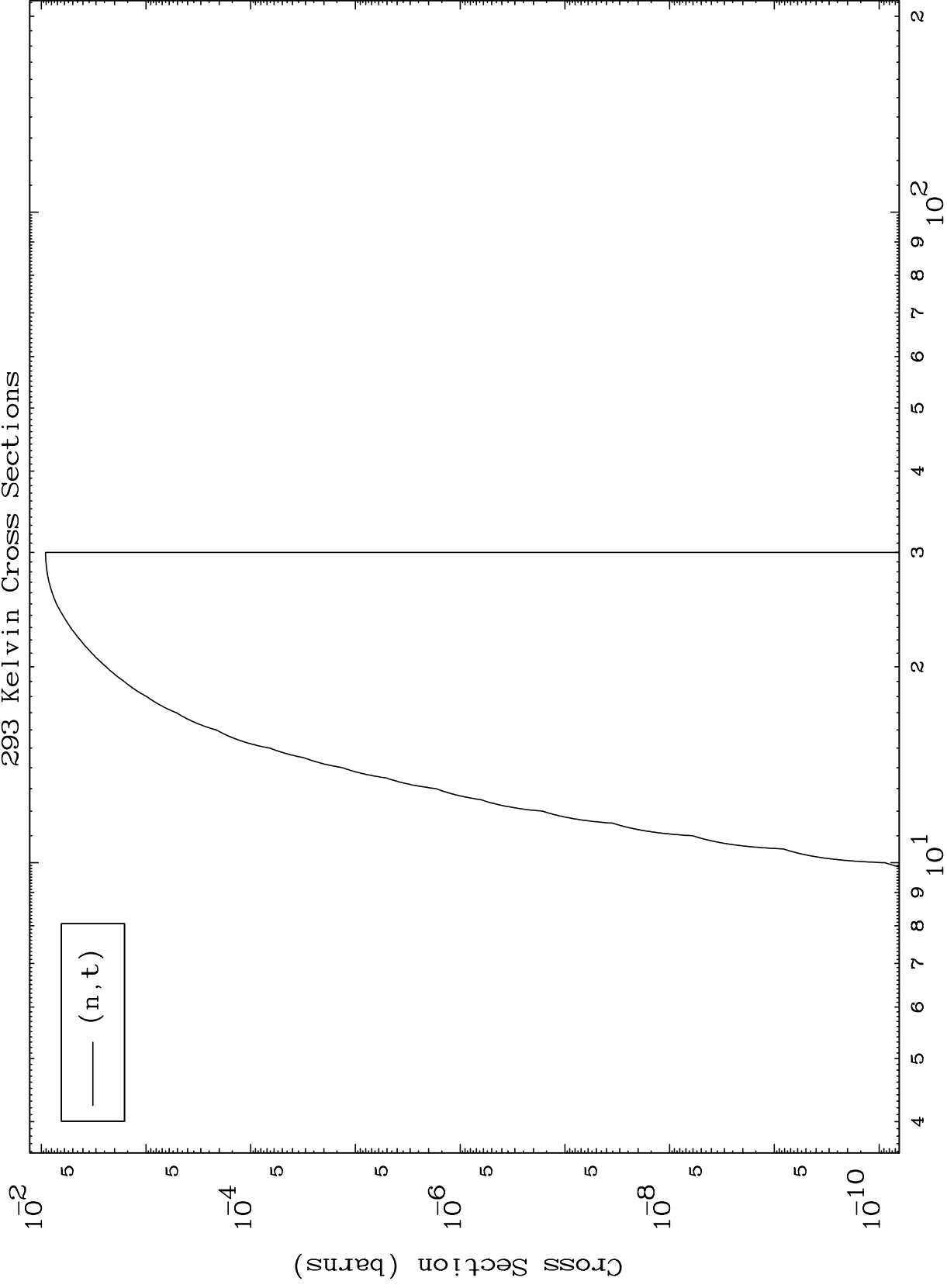
82-Pb-199



MAT 8210

(n,t) Levels
293 Kelvin Cross Sections

82-Pb-199



12

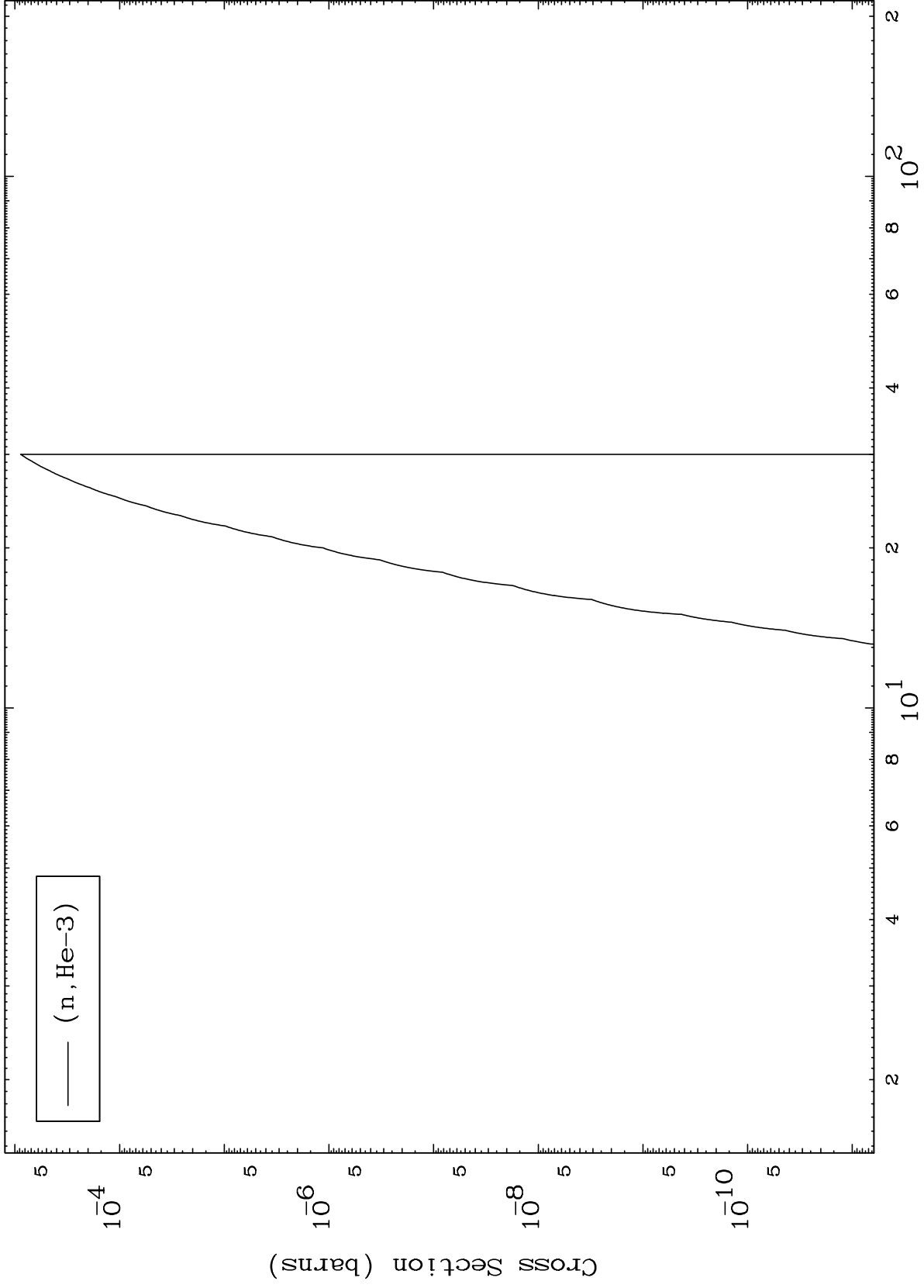
Incident Energy (MeV)

82-Pb-199

MAT 8210

(n,He3) Levels
293 Kelvin Cross Sections

82-Pb-199



13

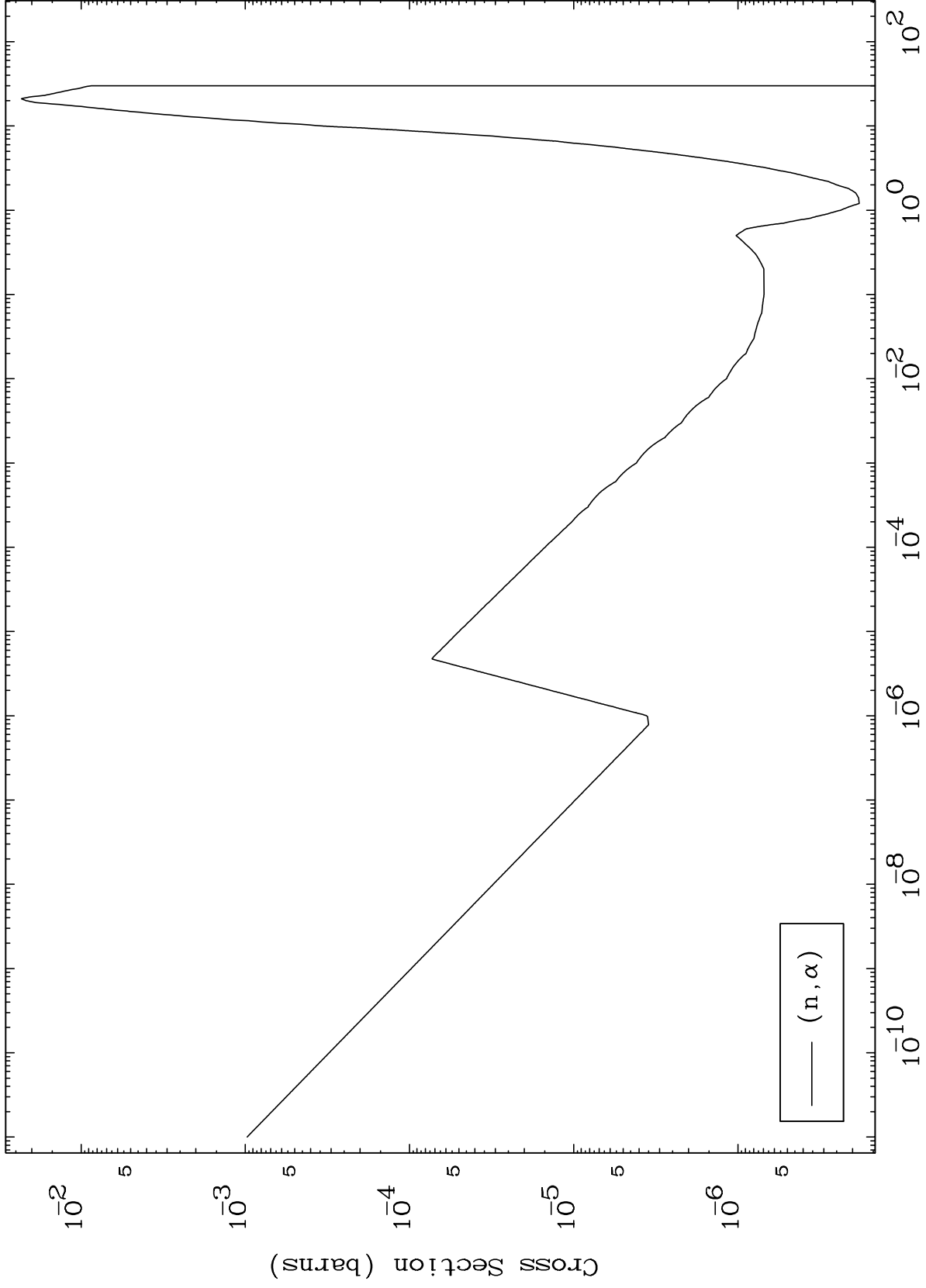
Incident Energy (MeV)

82-Pb-199

MAT 8210

(n, α) Levels
293 Kelvin Cross Sections

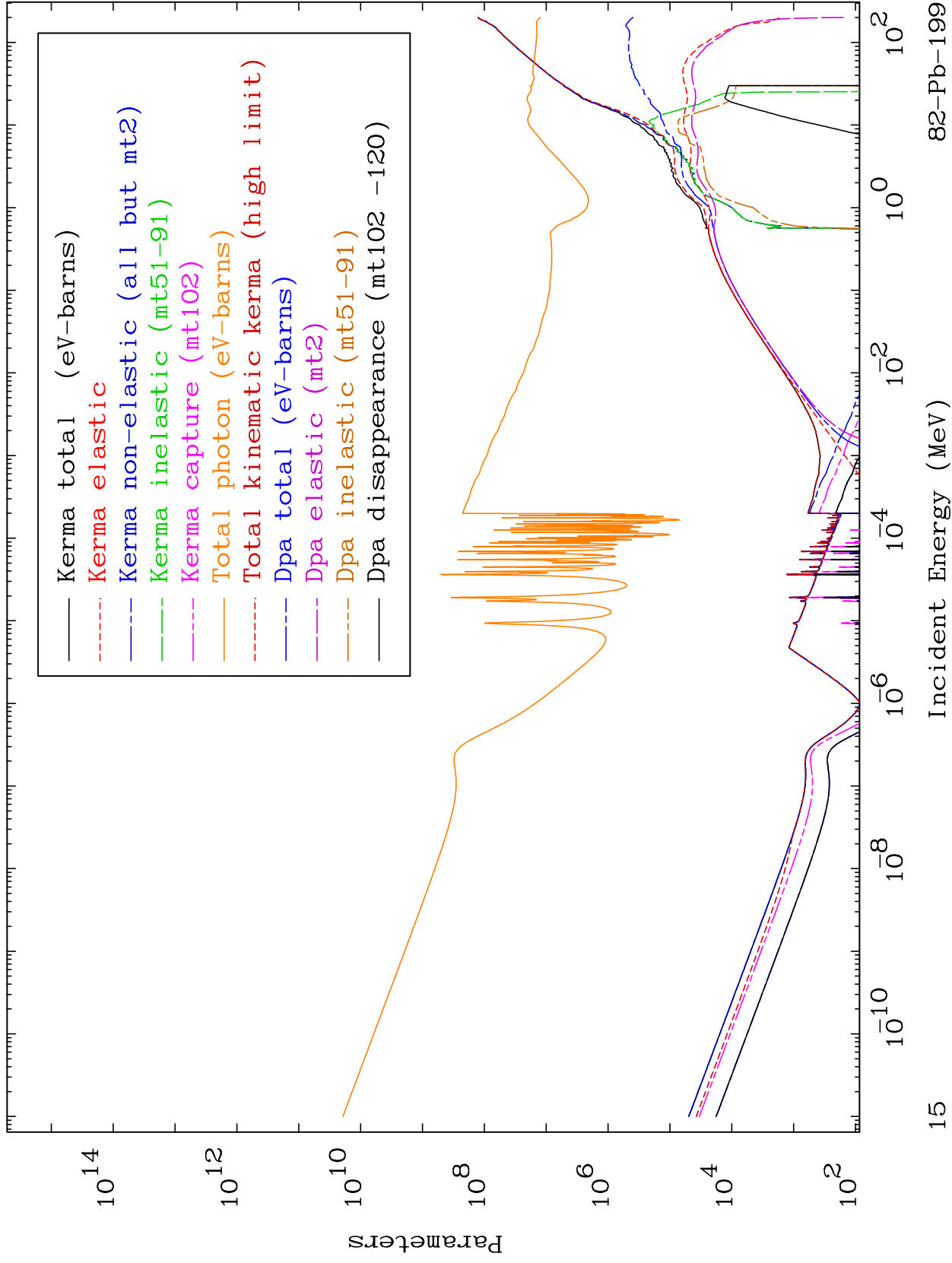
82-Pb-199



14

Incident Energy (MeV)

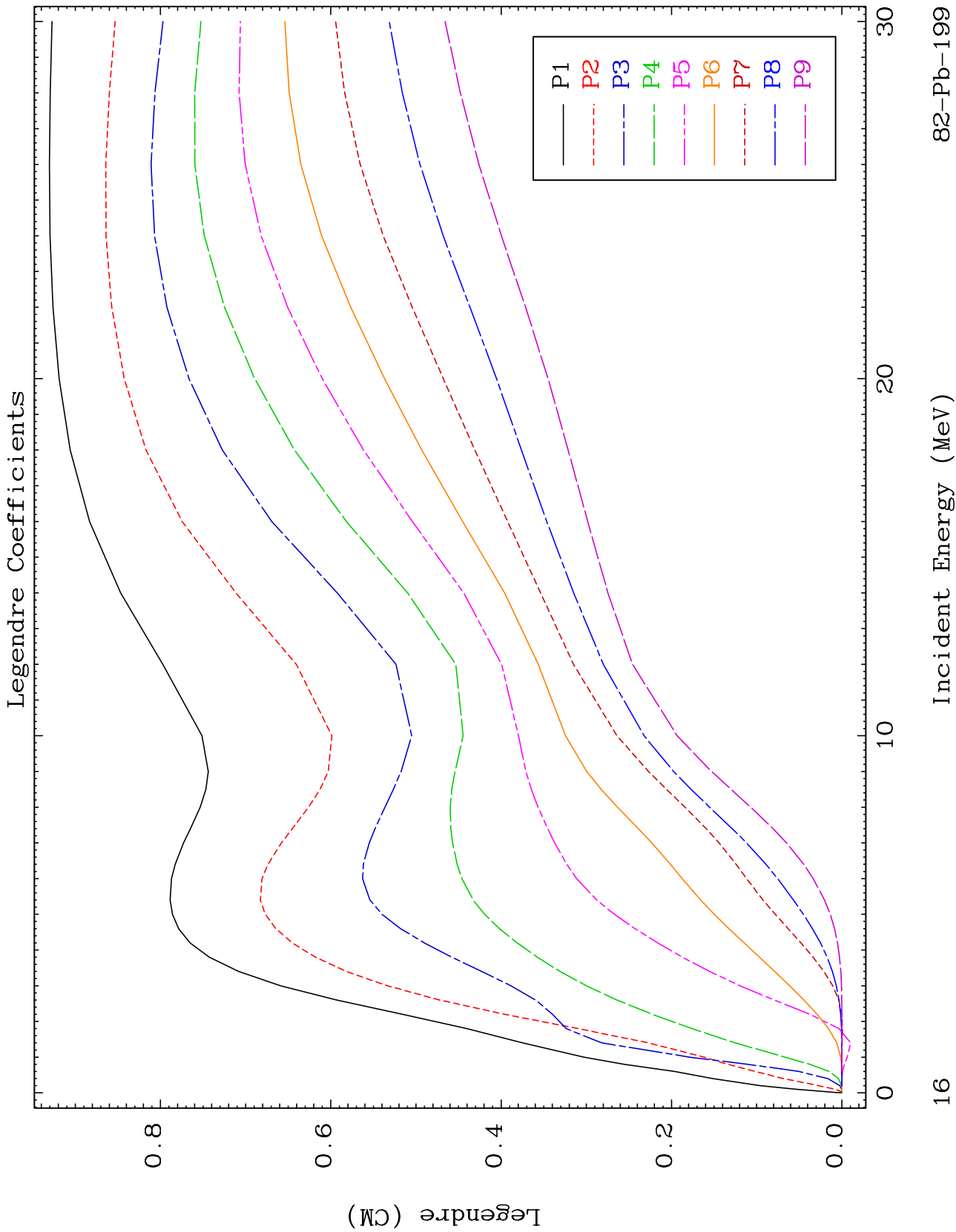
82-Pb-199



MAT 8210

Elastic Legendre Coefficients

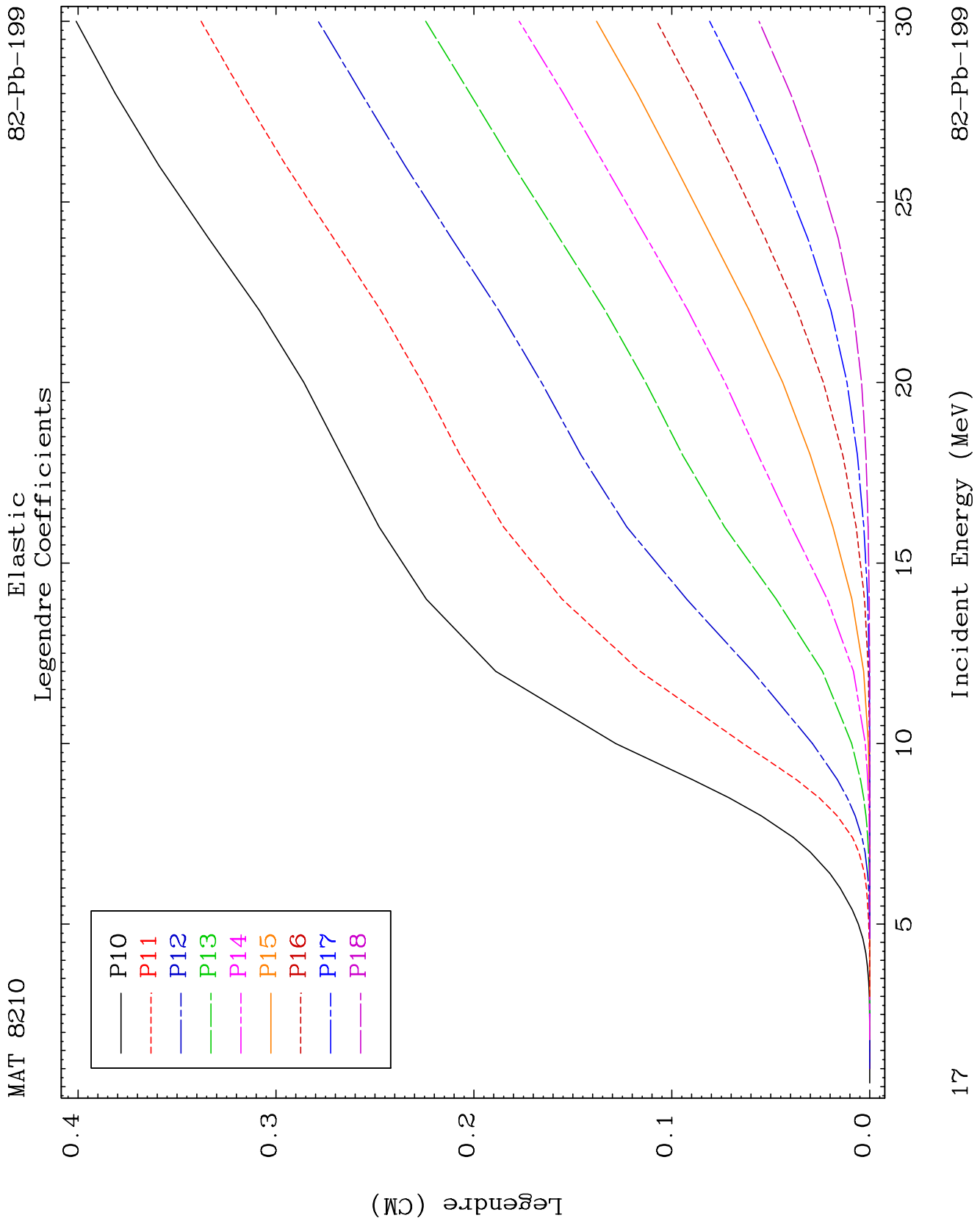
82-Pb-199

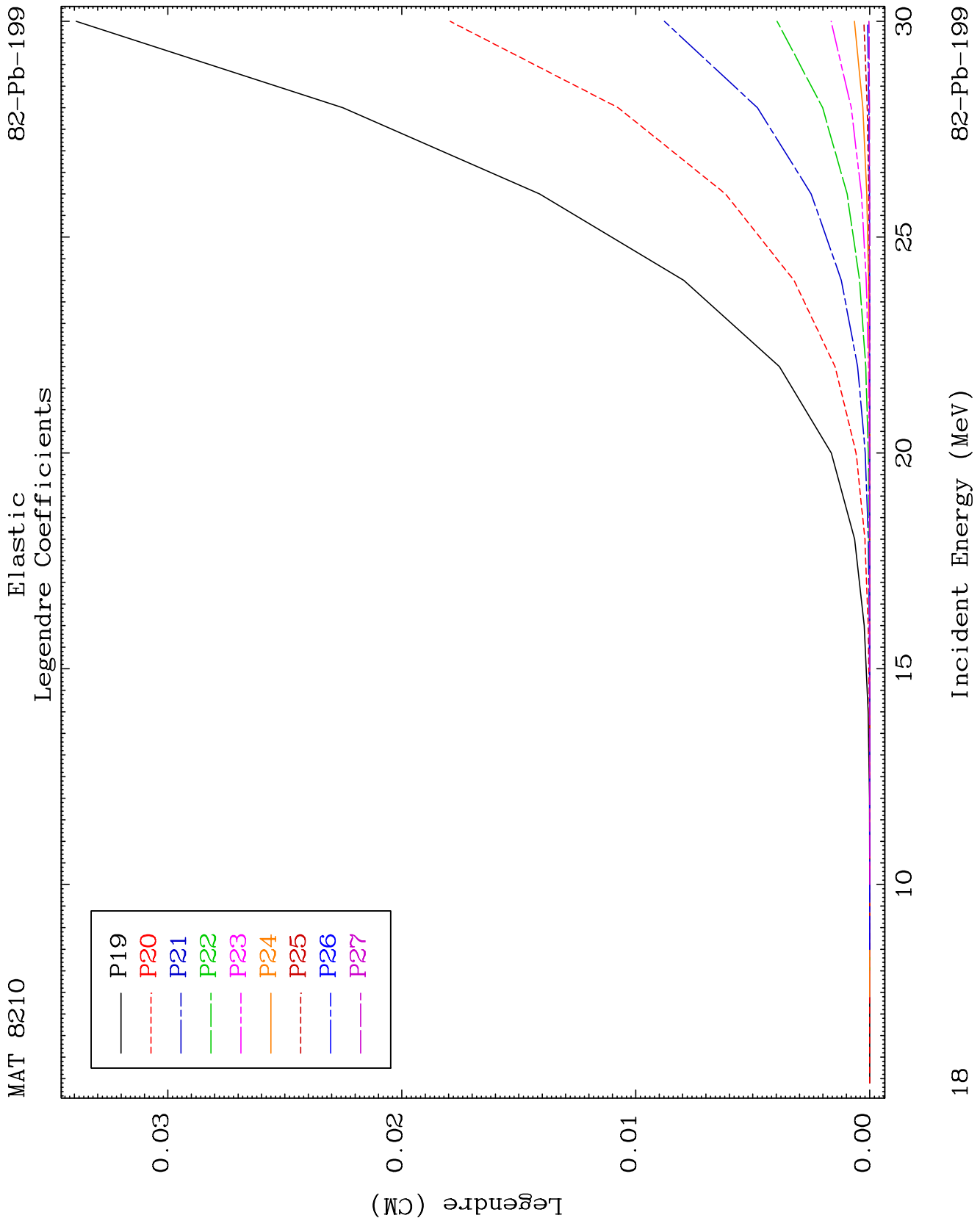


16

Incident Energy (MeV)

82-Pb-199

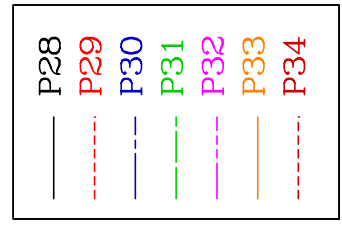




MAT 8210

Elastic Legendre Coefficients

82-Pb-199

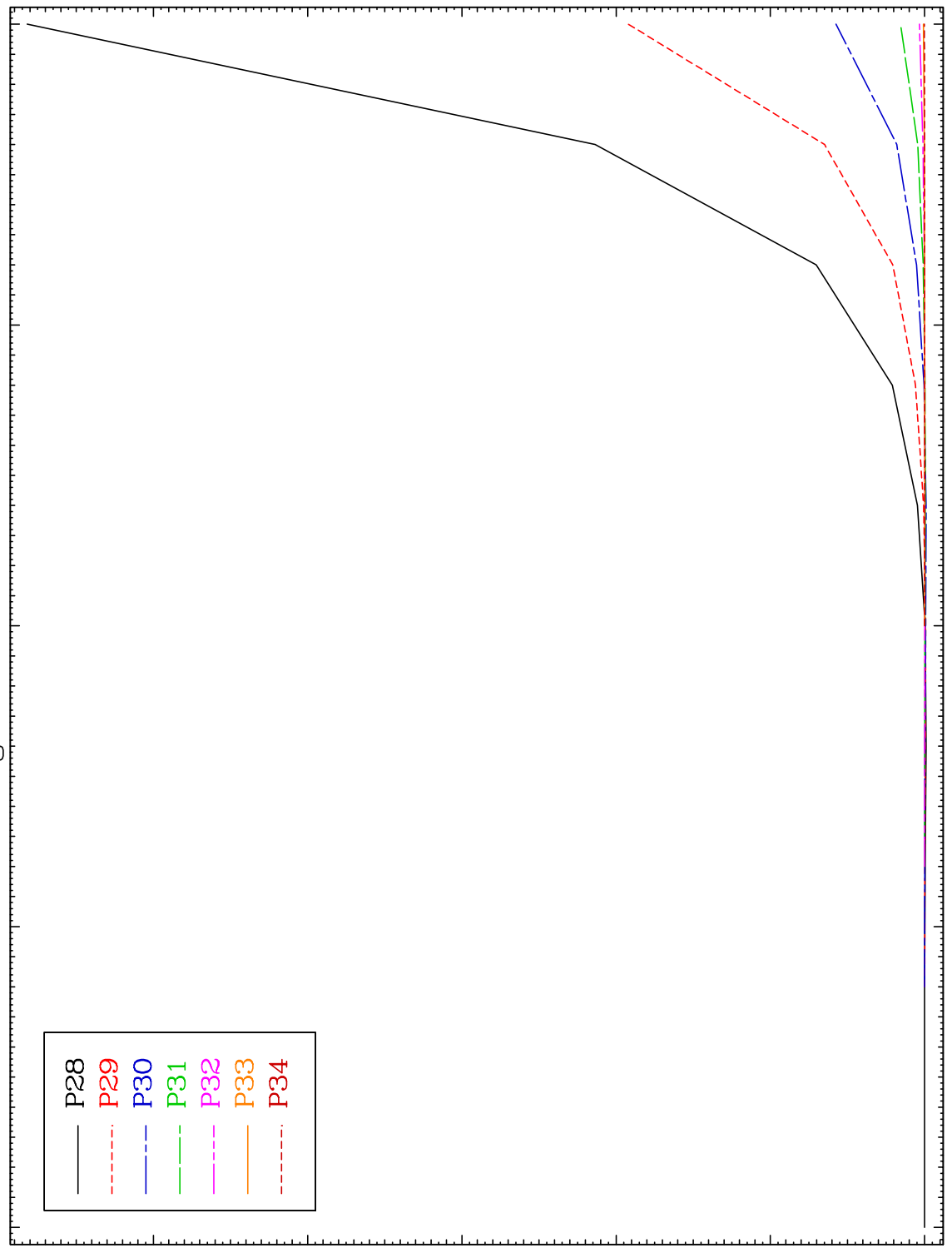


$\times 10^{-5}$
Legendre (CM)
1.0
0.8
0.6
0.4
0.2
0.0

10 15 20 25 30

Incident Energy (MeV)

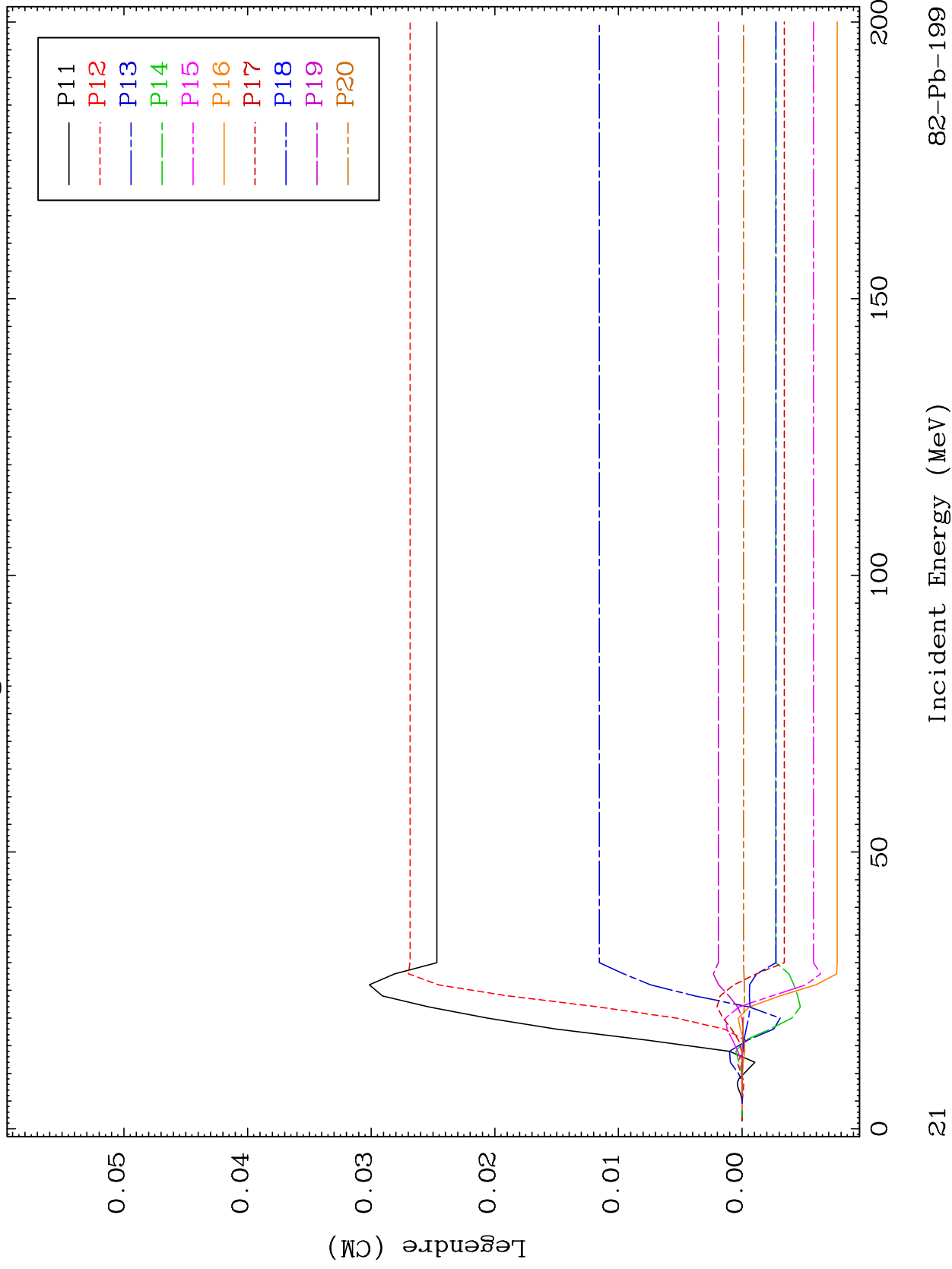
82-Pb-199



MAT 8210

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

82-Pb-199

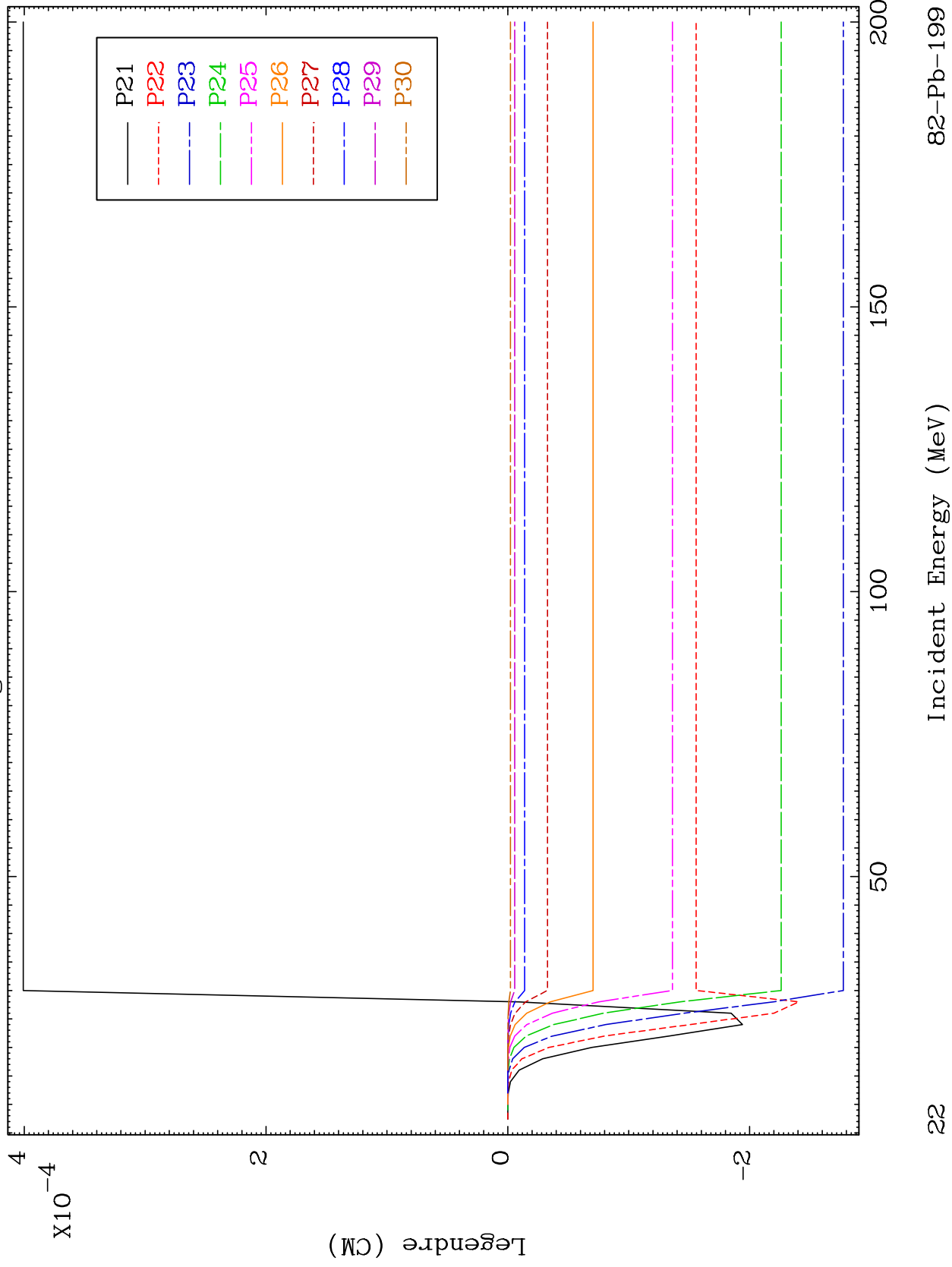


21

MAT 8210

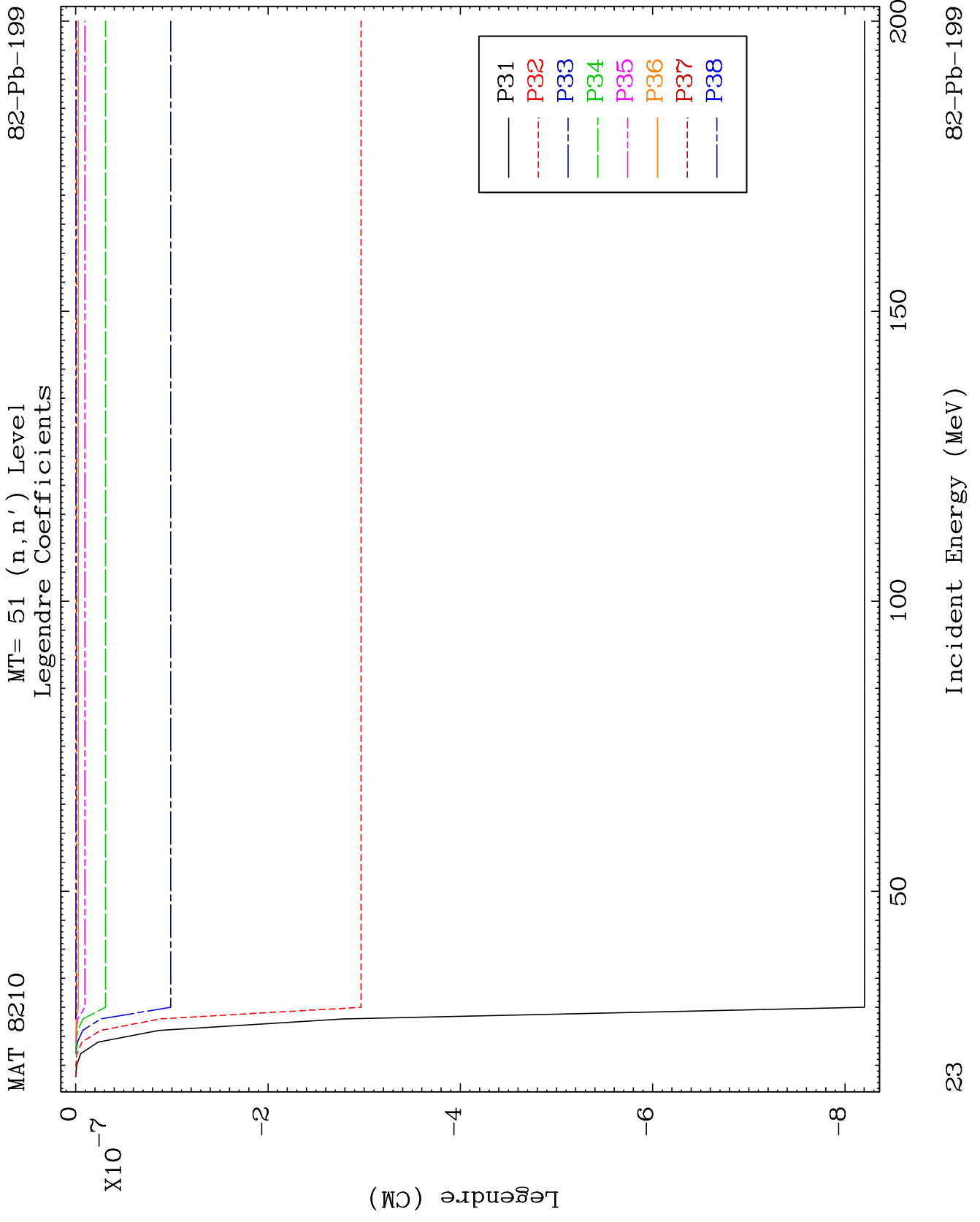
MT= 51 (n,n') Level
Legendre Coefficients

82-Pb-199



22

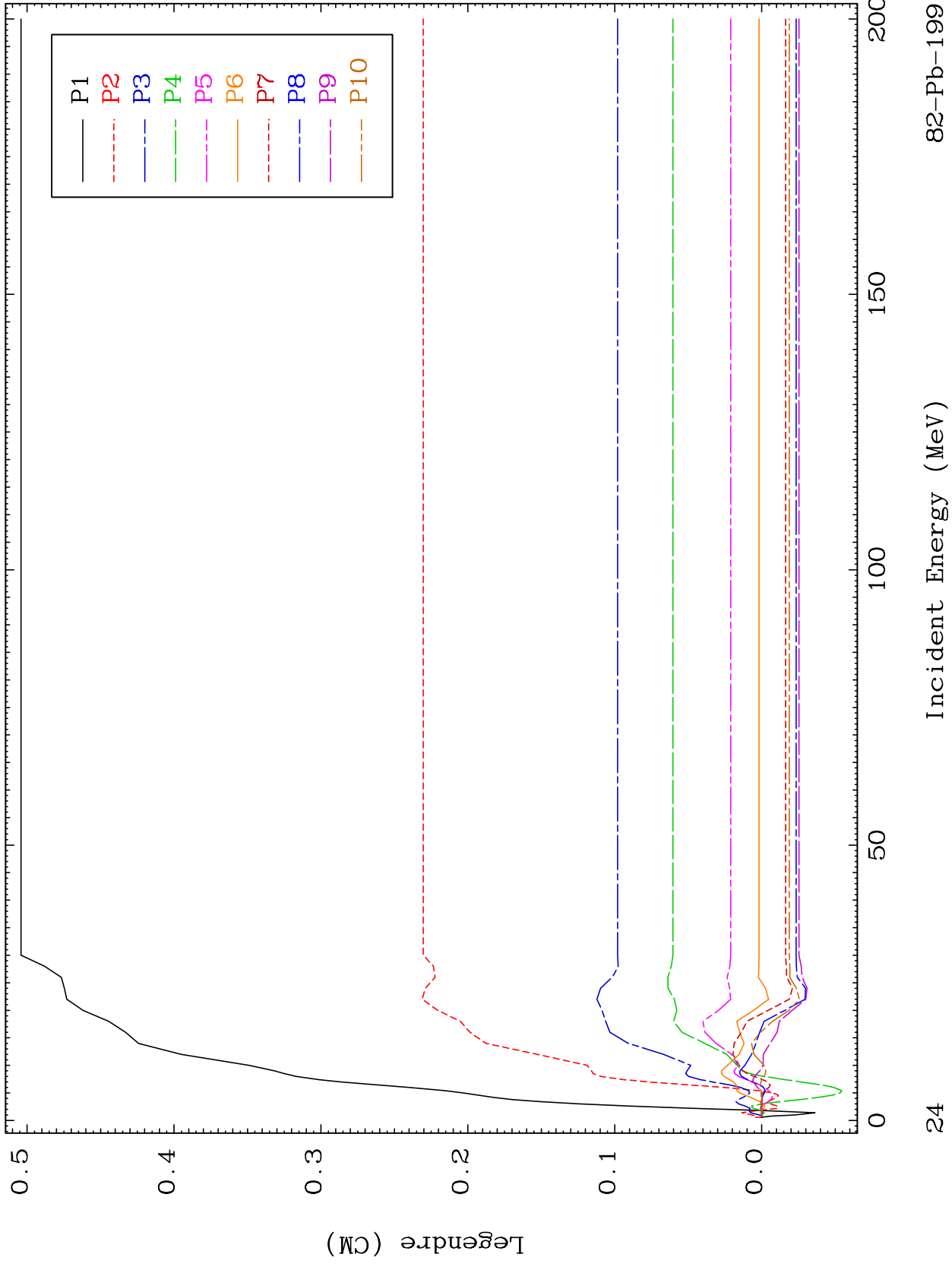
82-Pb-199



MAT 8210

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

82-Pb-199

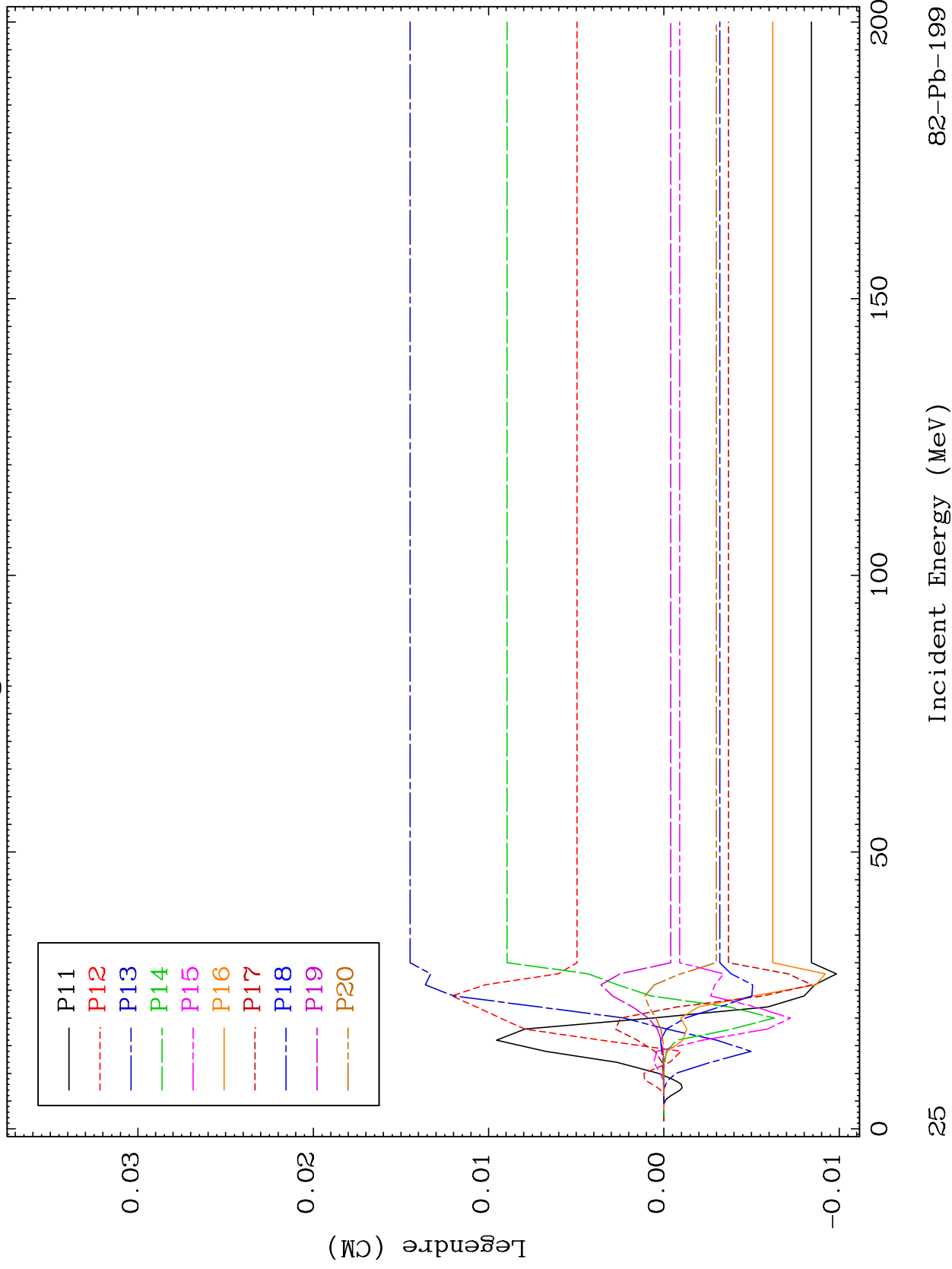


24

MAT 8210

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

82-Pb-199



82-Pb-199

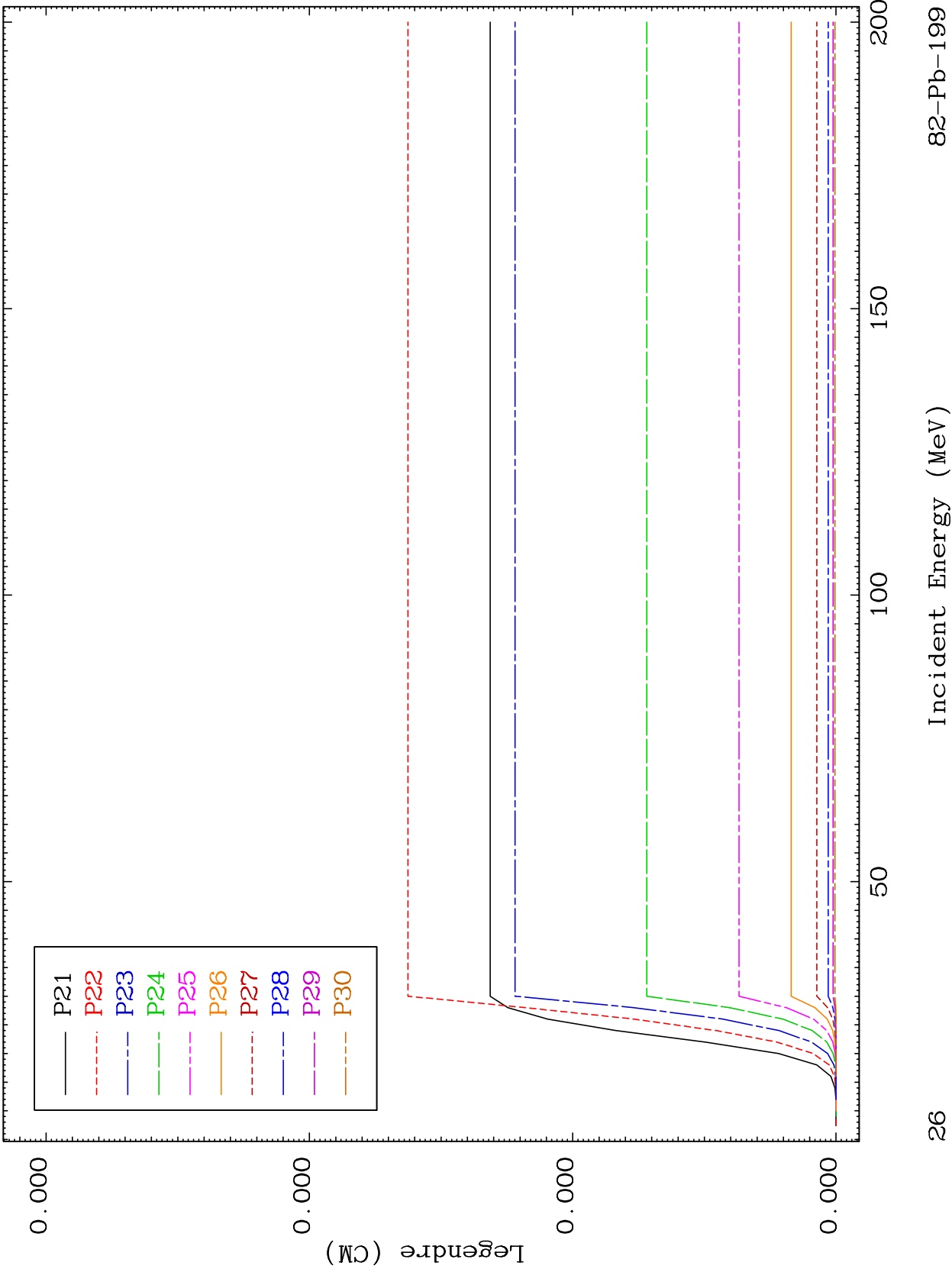
Incident Energy (MeV)

25

MAT 8210

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

82-Pb-199

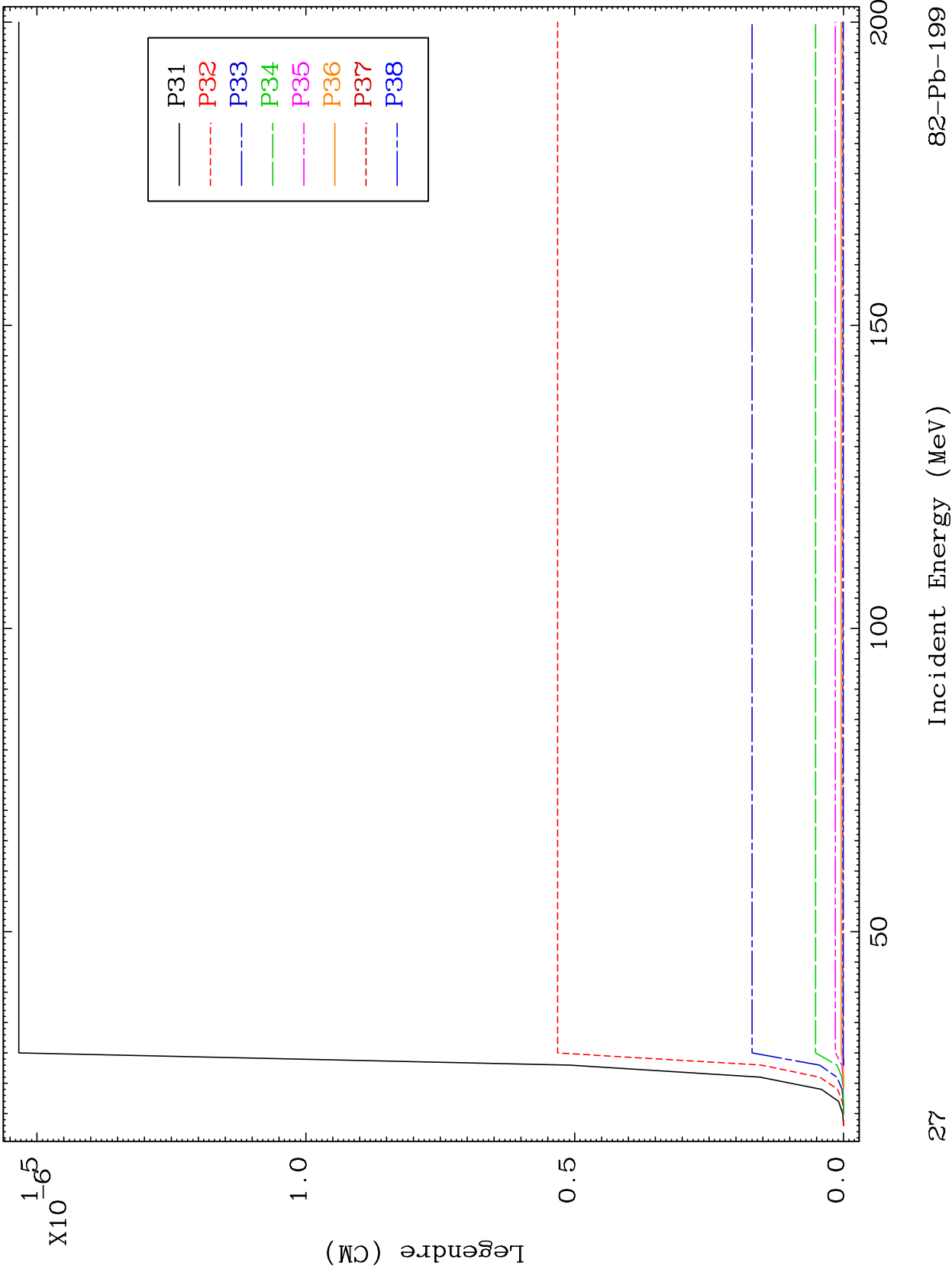


26

MAT 8210

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

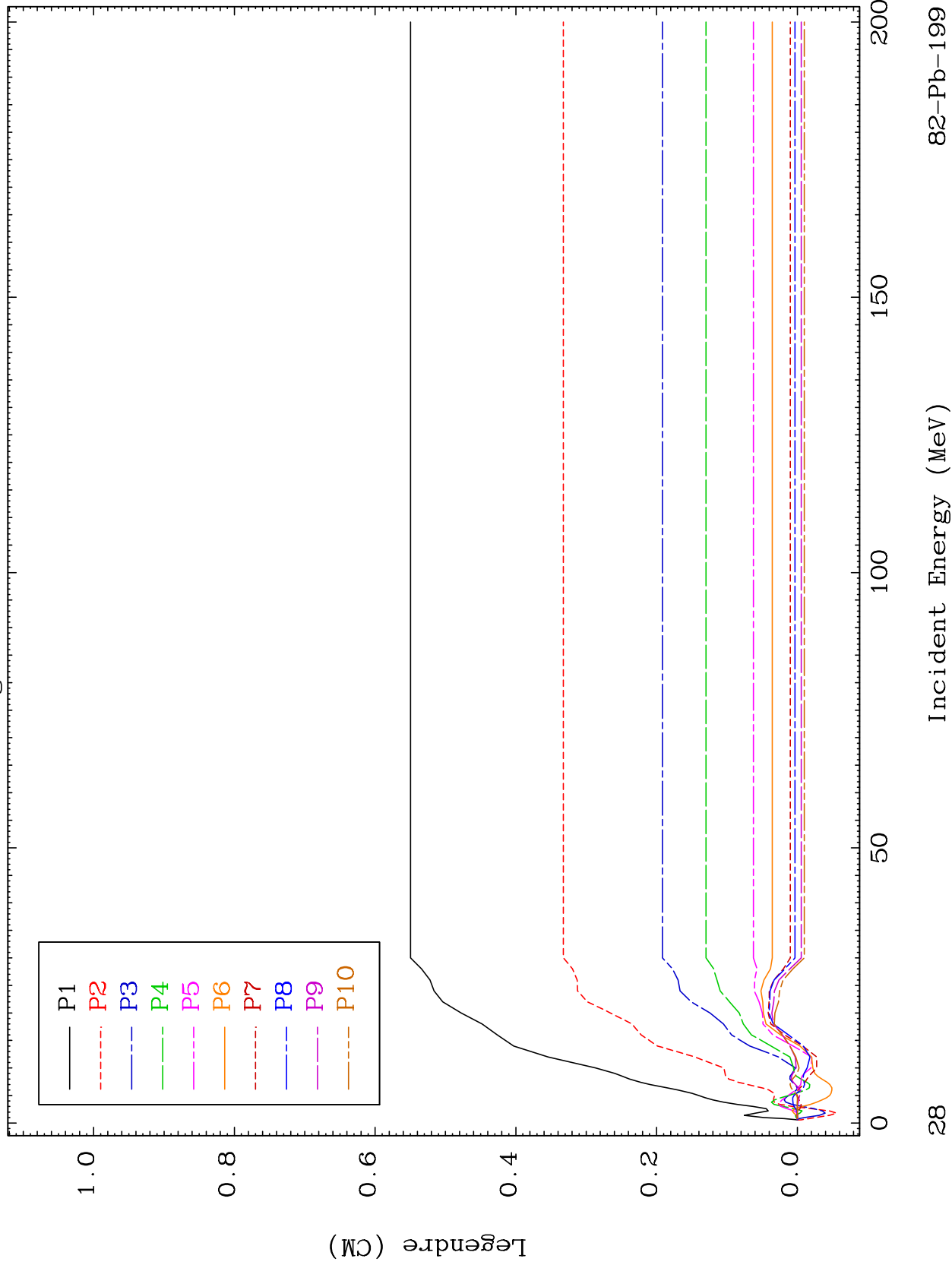
82-Pb-199



MAT 8210

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

82-Pb-199



28

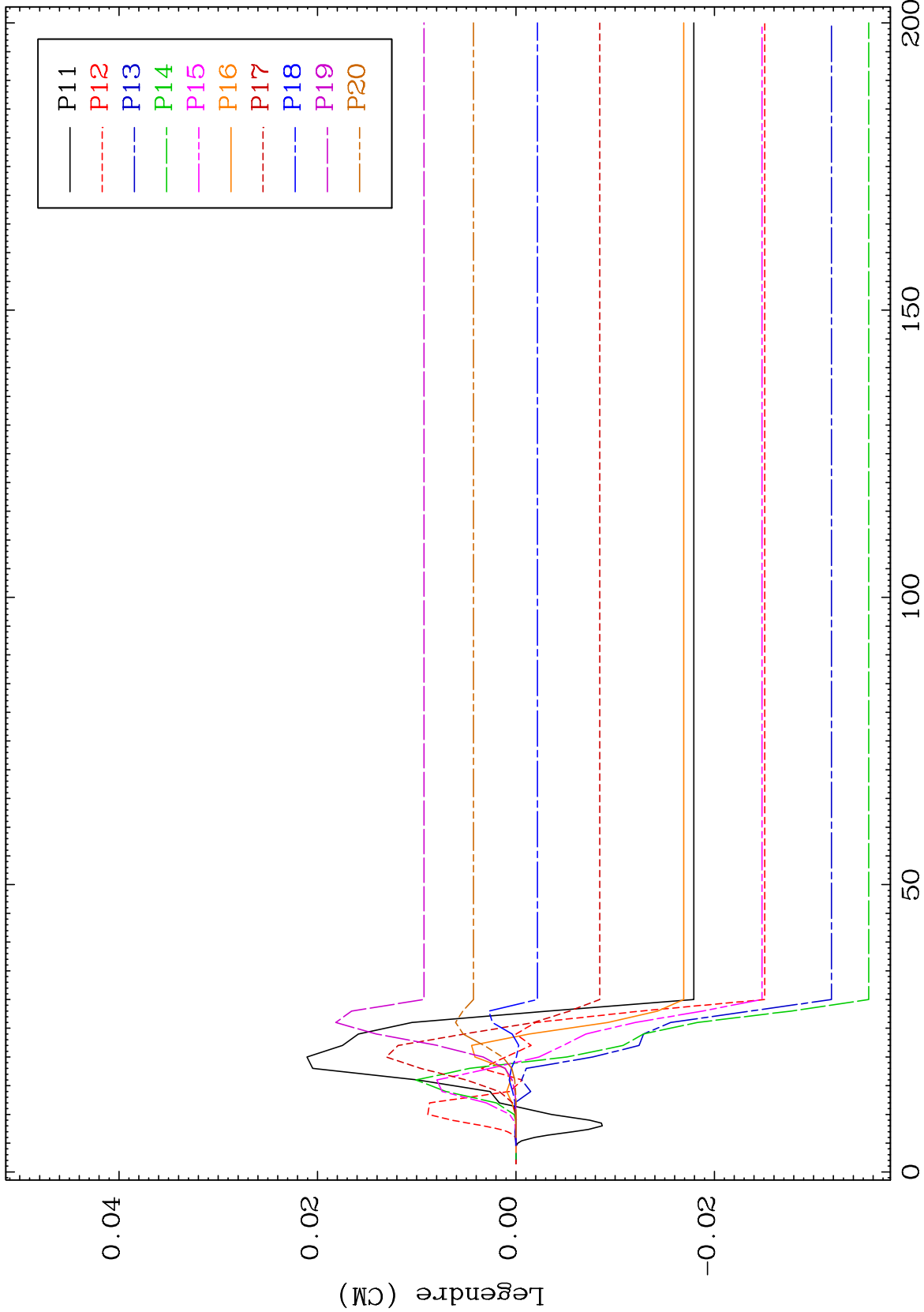
Incident Energy (MeV)

82-Pb-199

MAT 8210

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

82-Pb-199



29

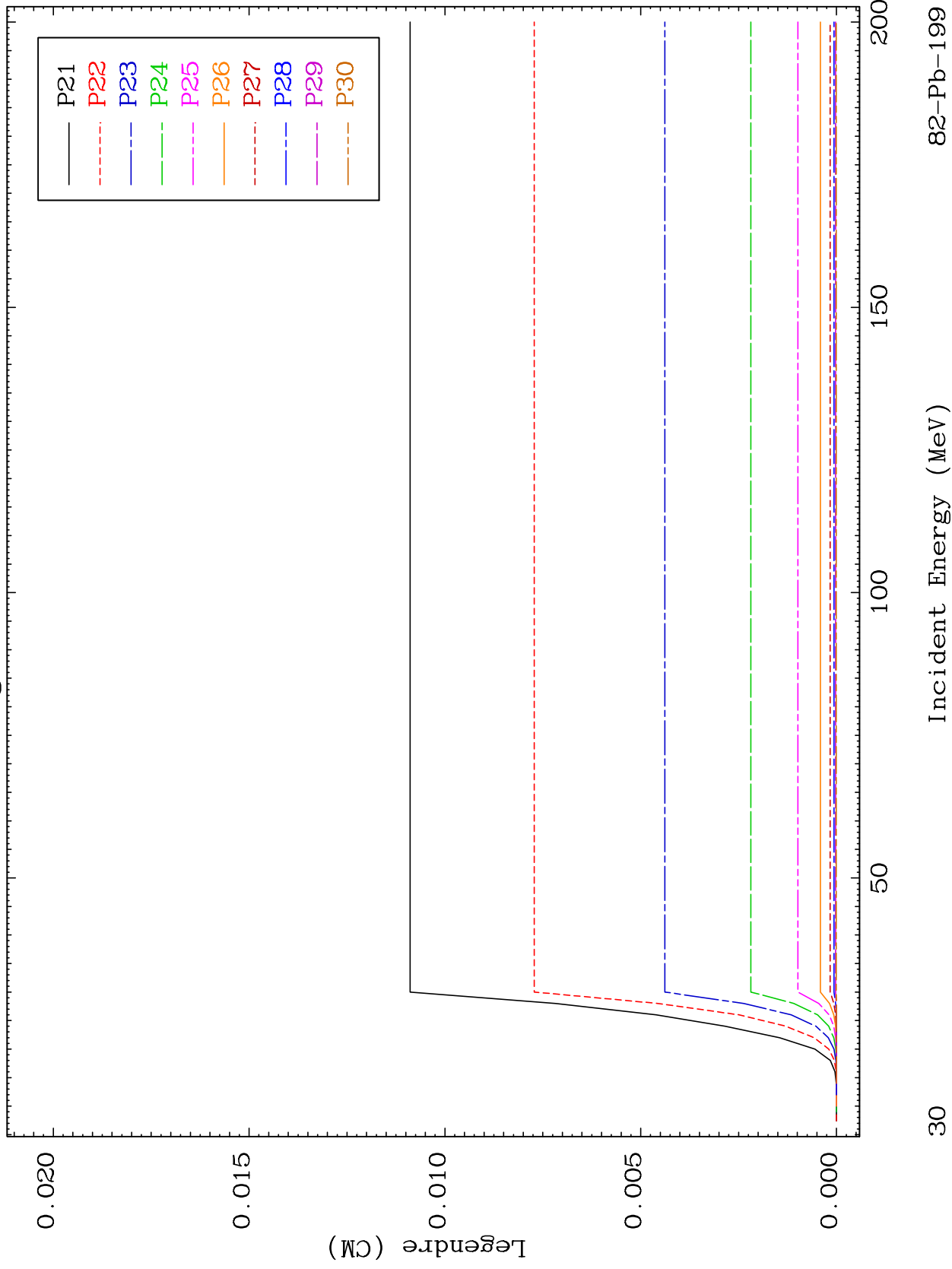
Incident Energy (MeV)

82-Pb-199

MAT 8210

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

82-Pb-199



82-Pb-199

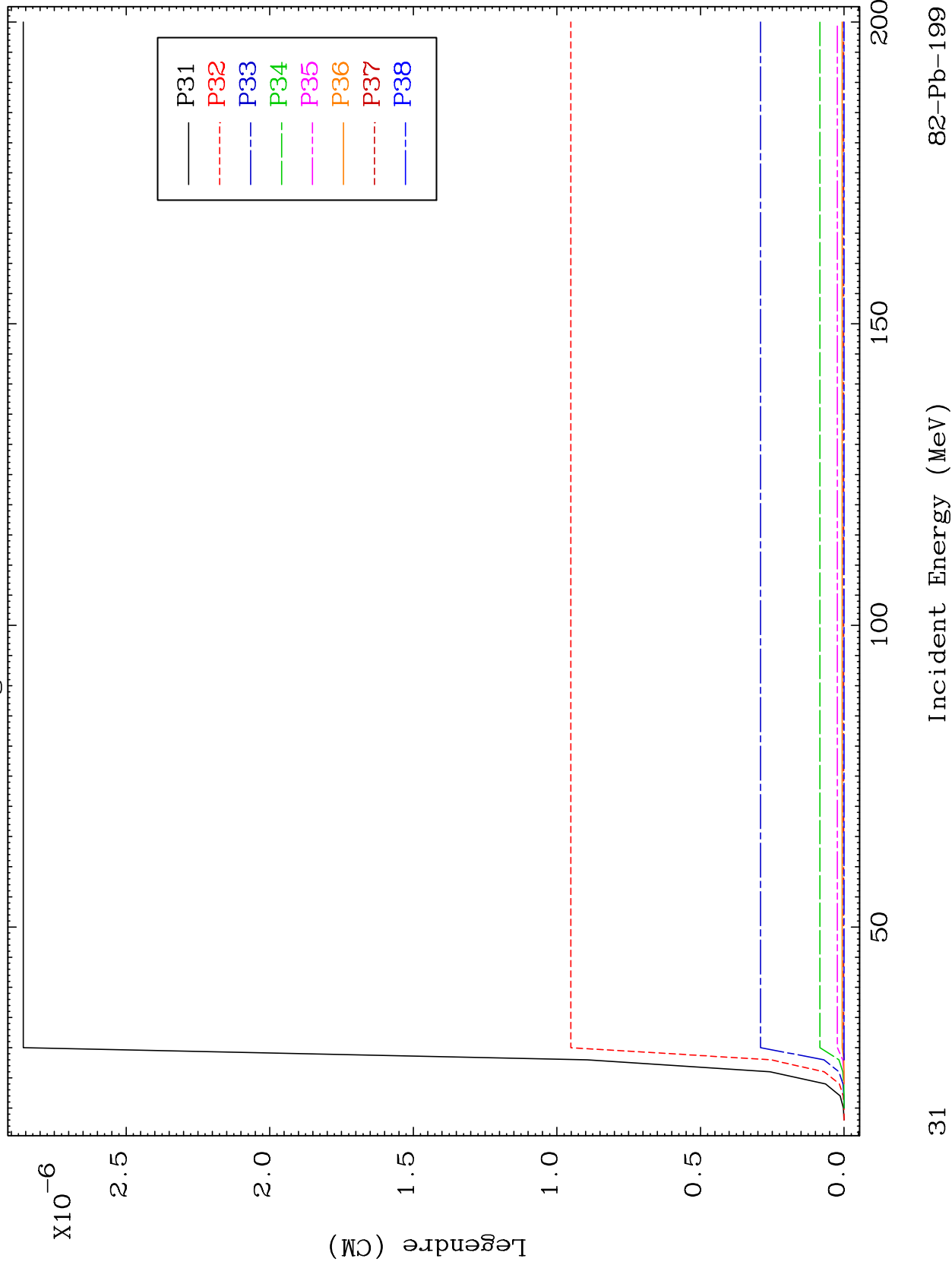
Incident Energy (MeV)

30

MAT 8210

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

82-Pb-199



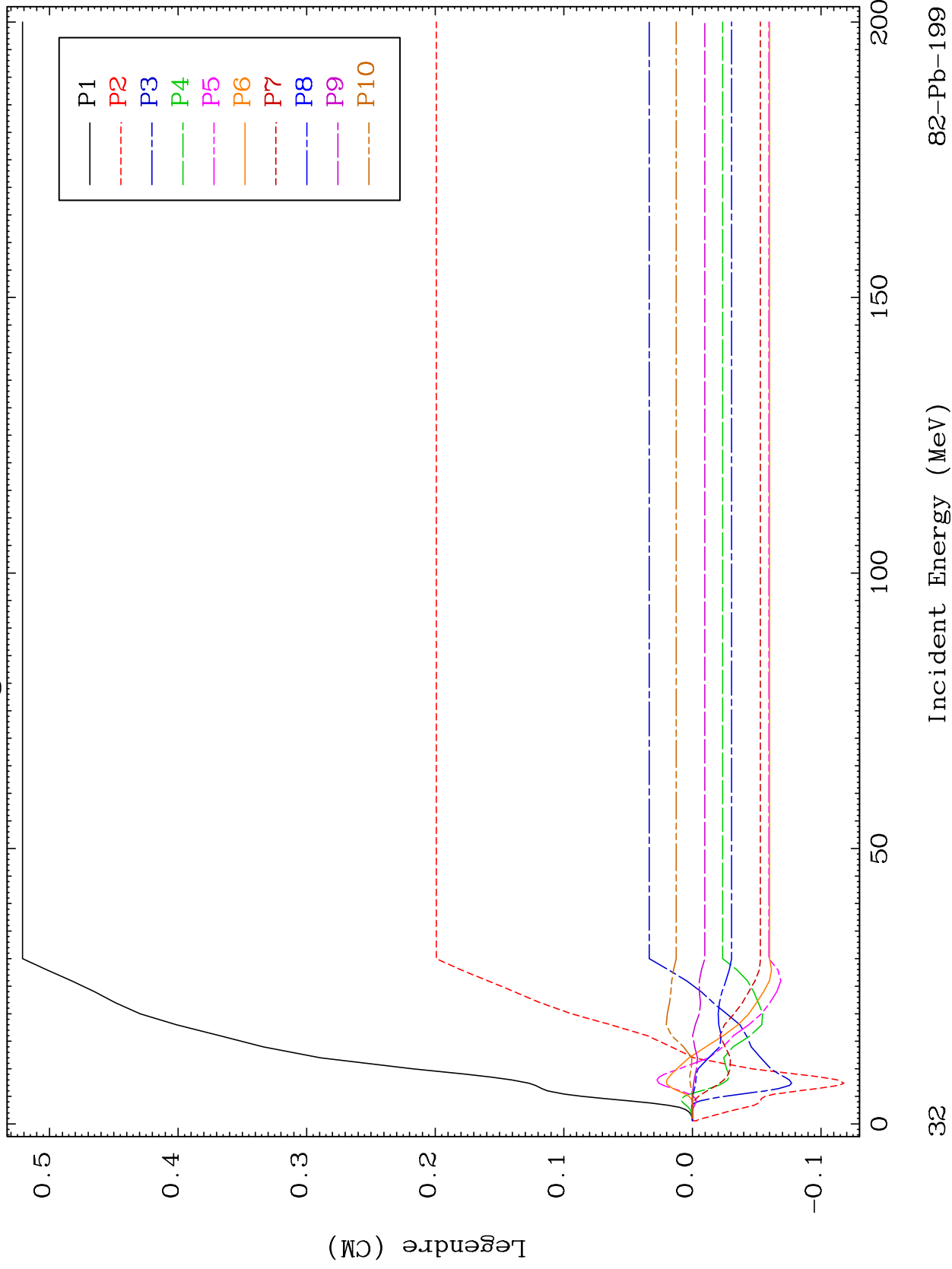
31

82-Pb-199

MAT 8210

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

82-Pb-199



82-Pb-199

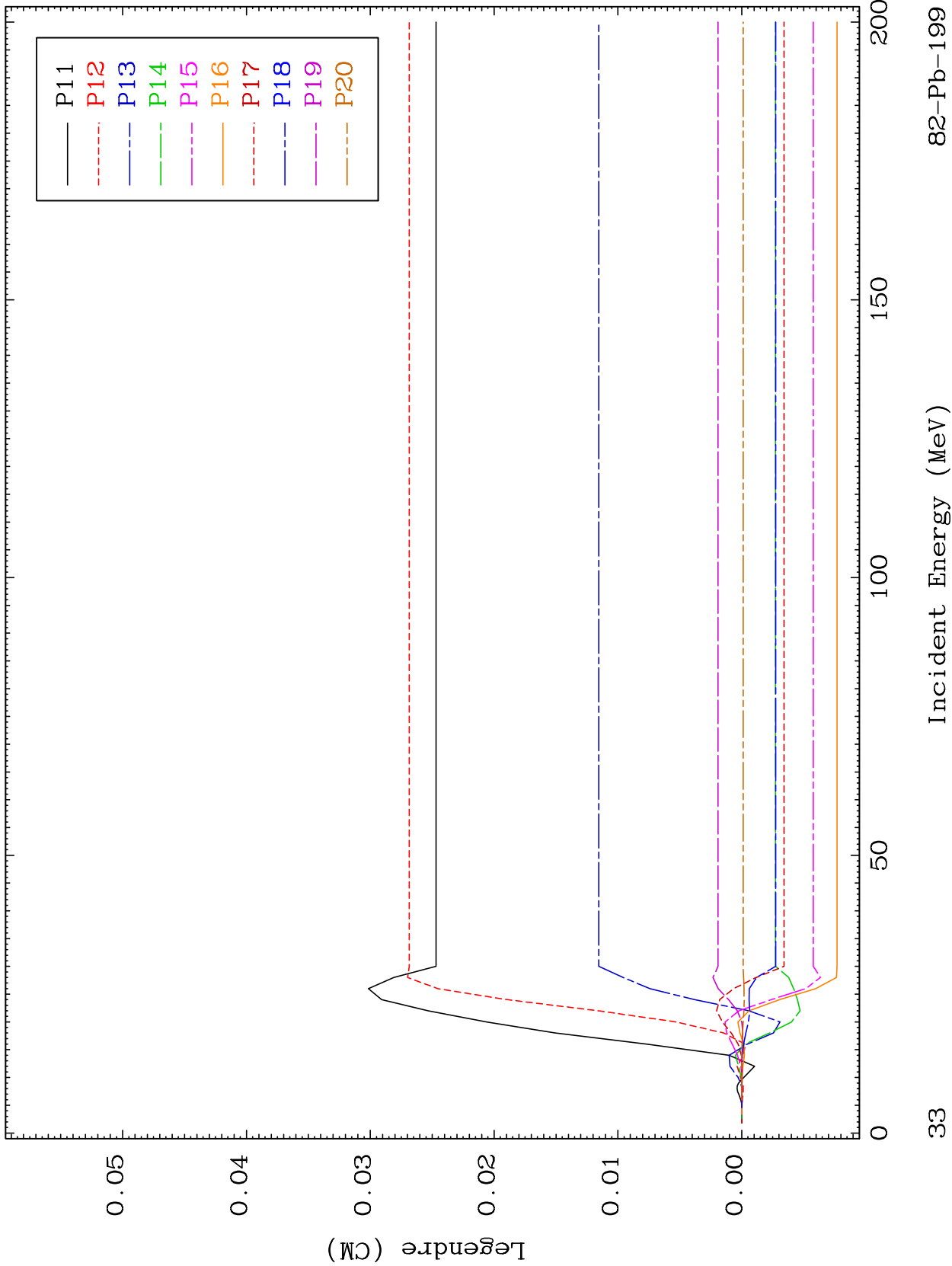
Incident Energy (MeV)

32

MAT 8210

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

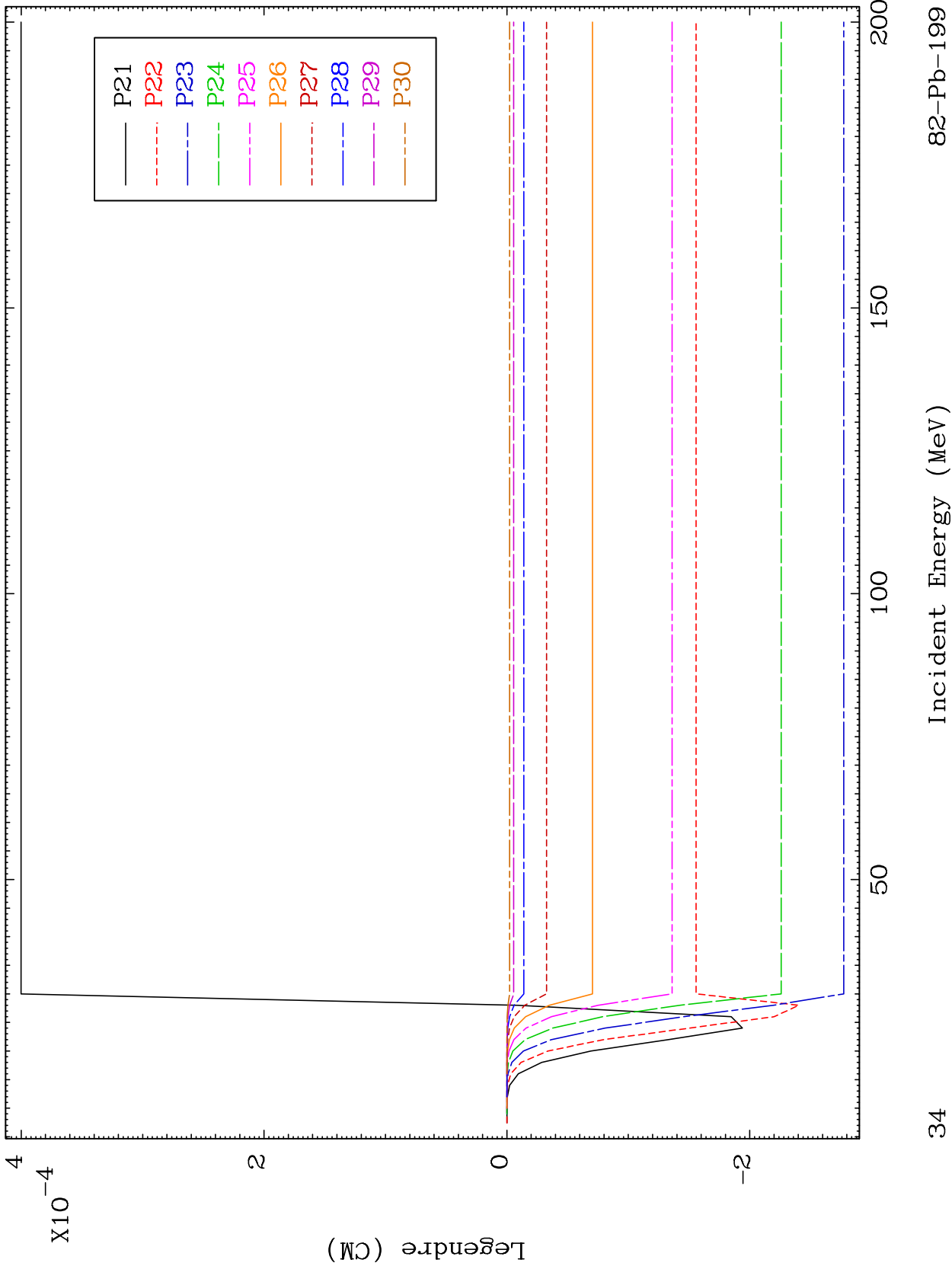
82-Pb-199

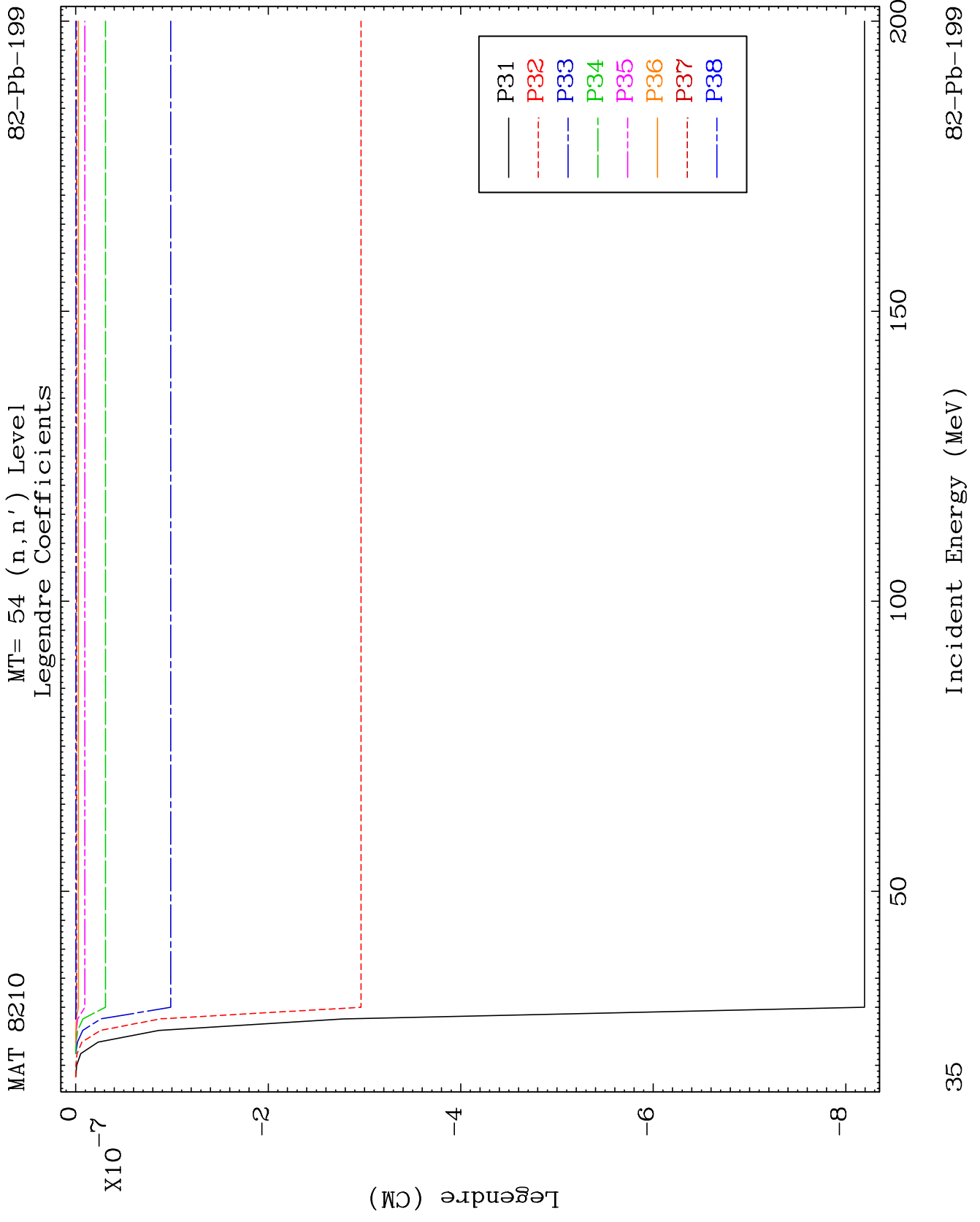


MAT 8210

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

82-Pb-199

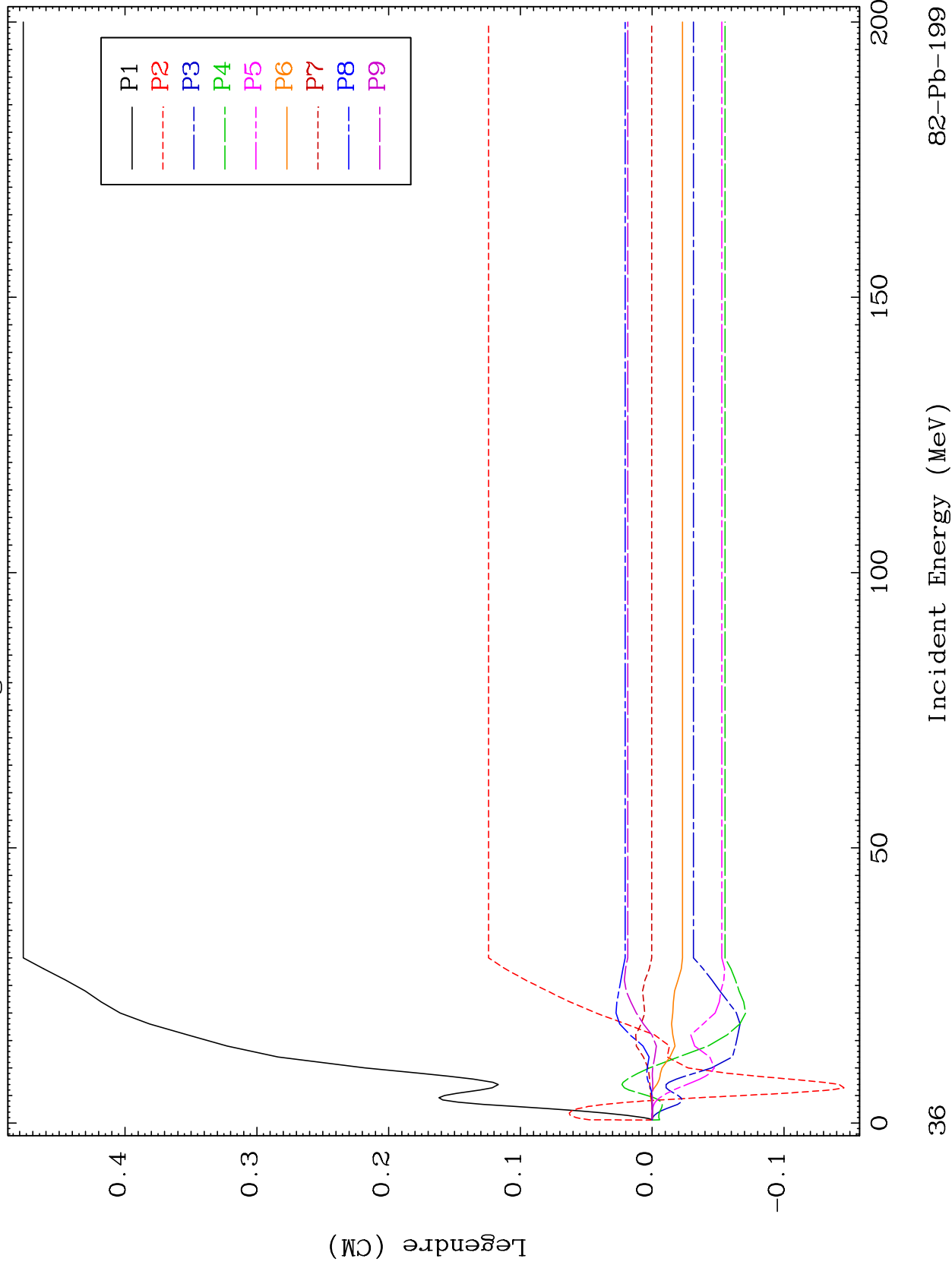




MAT 8210

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

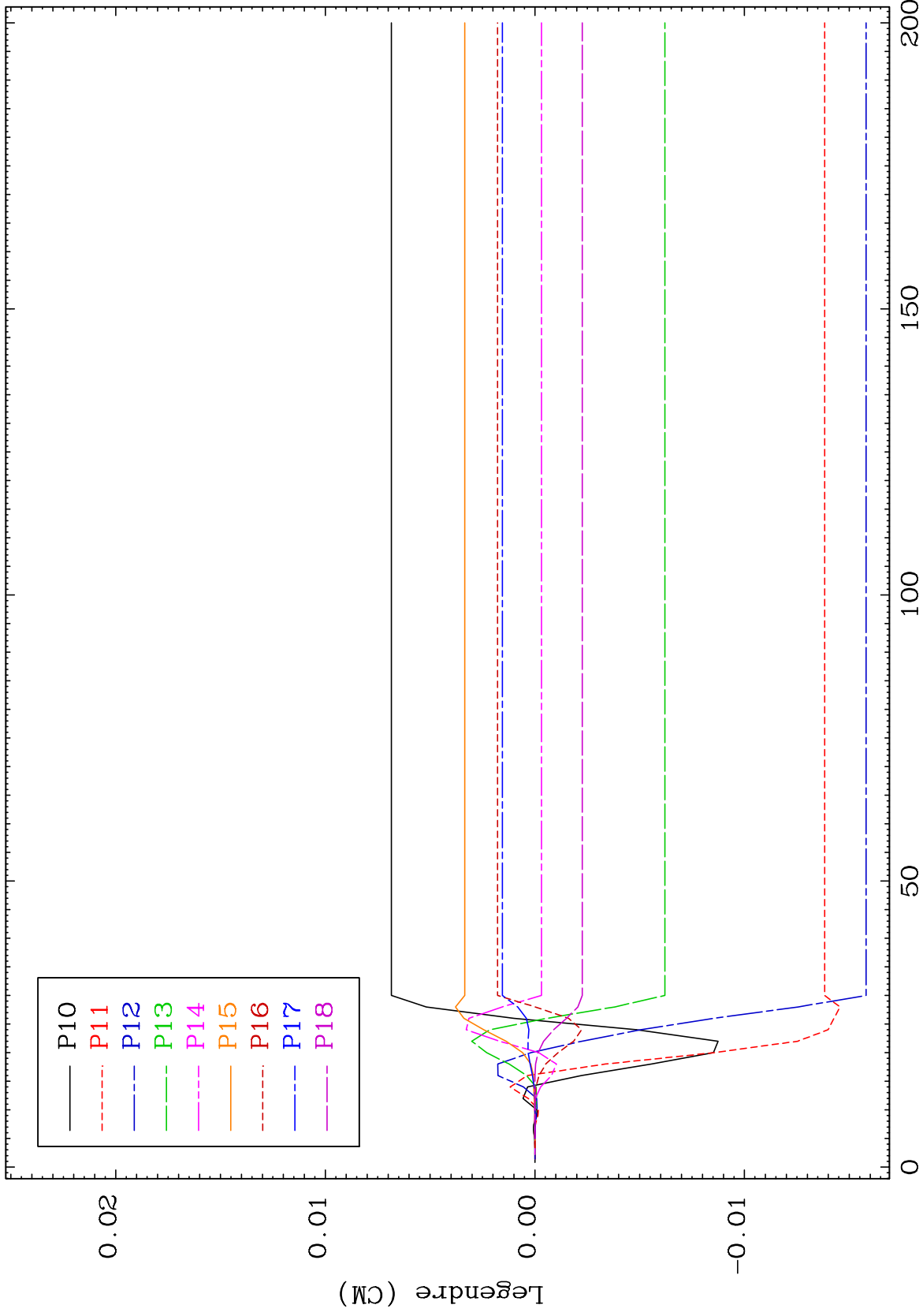
82-Pb-199



MAT 8210

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

82-Pb-199



37

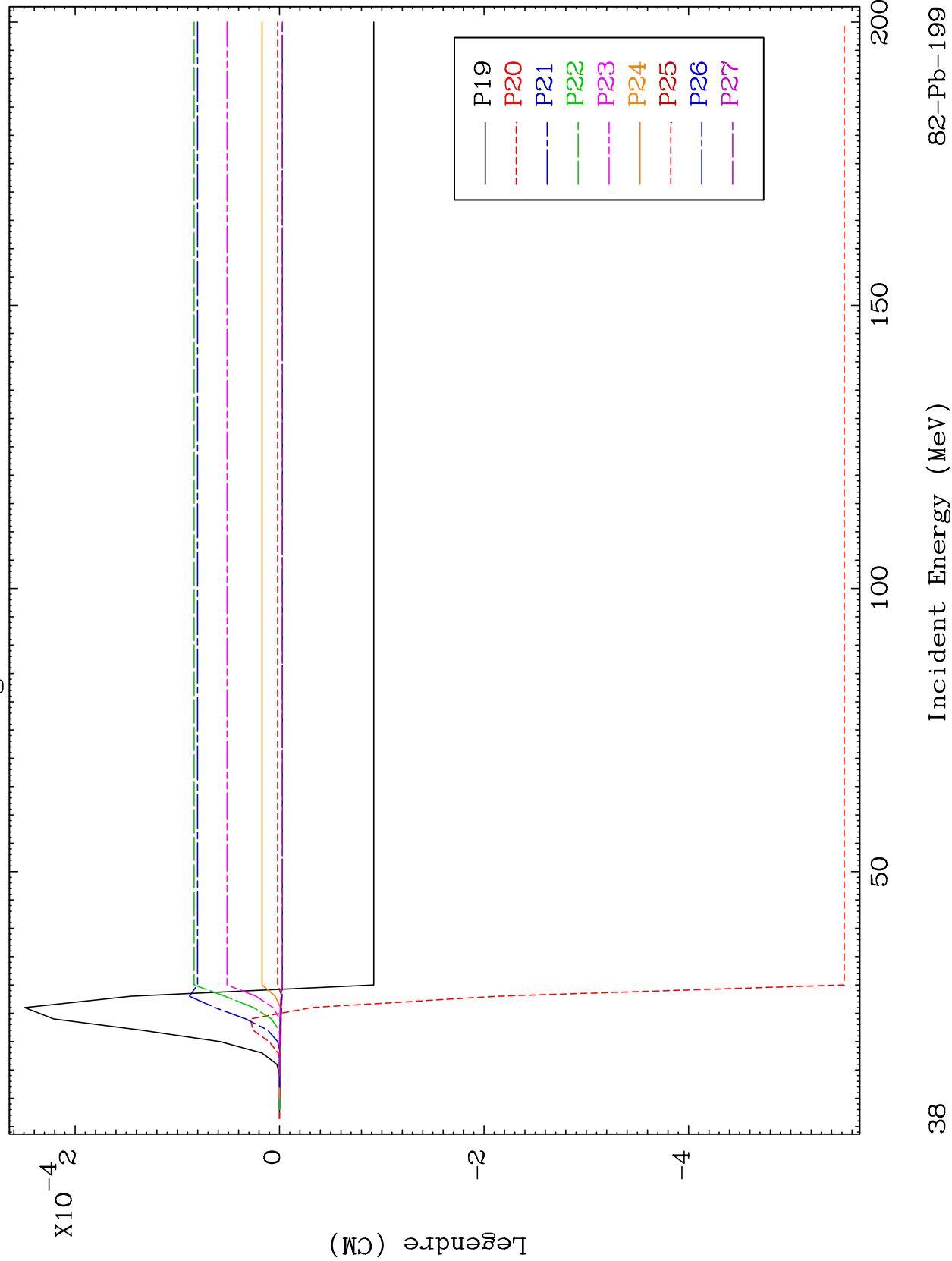
Incident Energy (MeV)

82-Pb-199

MAT 8210

82-Pb-199

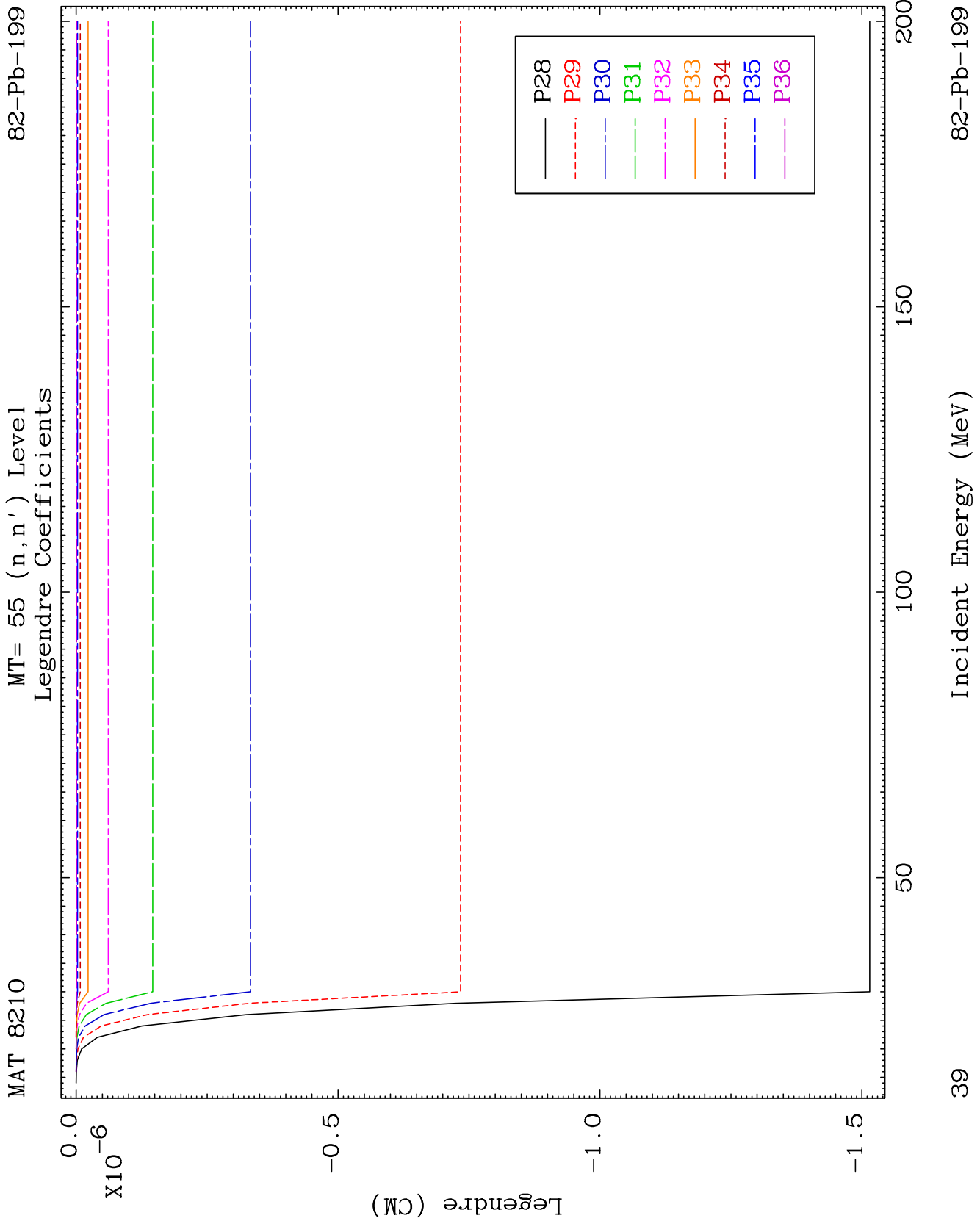
MT= 55 (n,n') Level
Legendre Coefficients



38

Incident Energy (MeV)

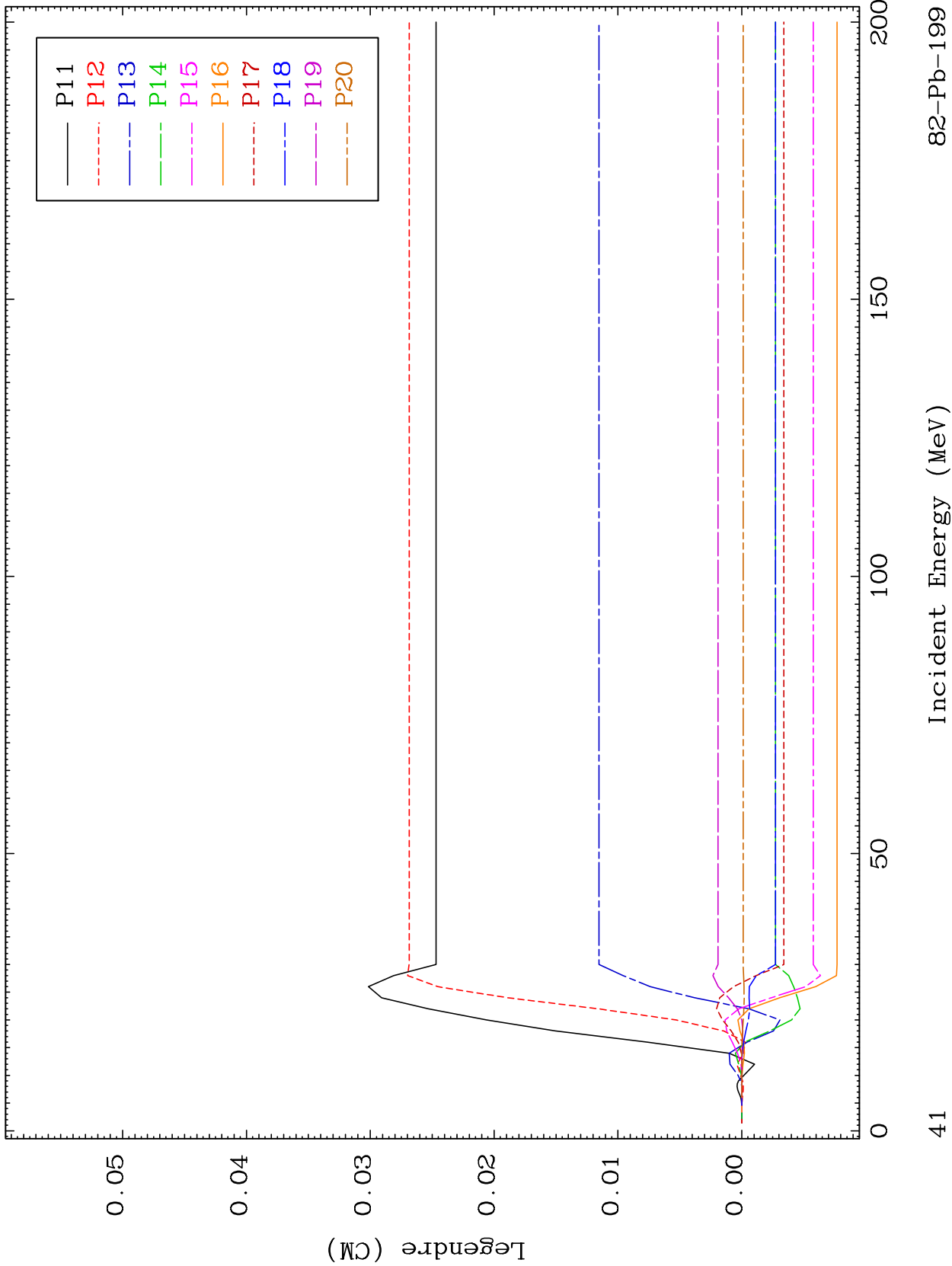
82-Pb-199



MAT 8210

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

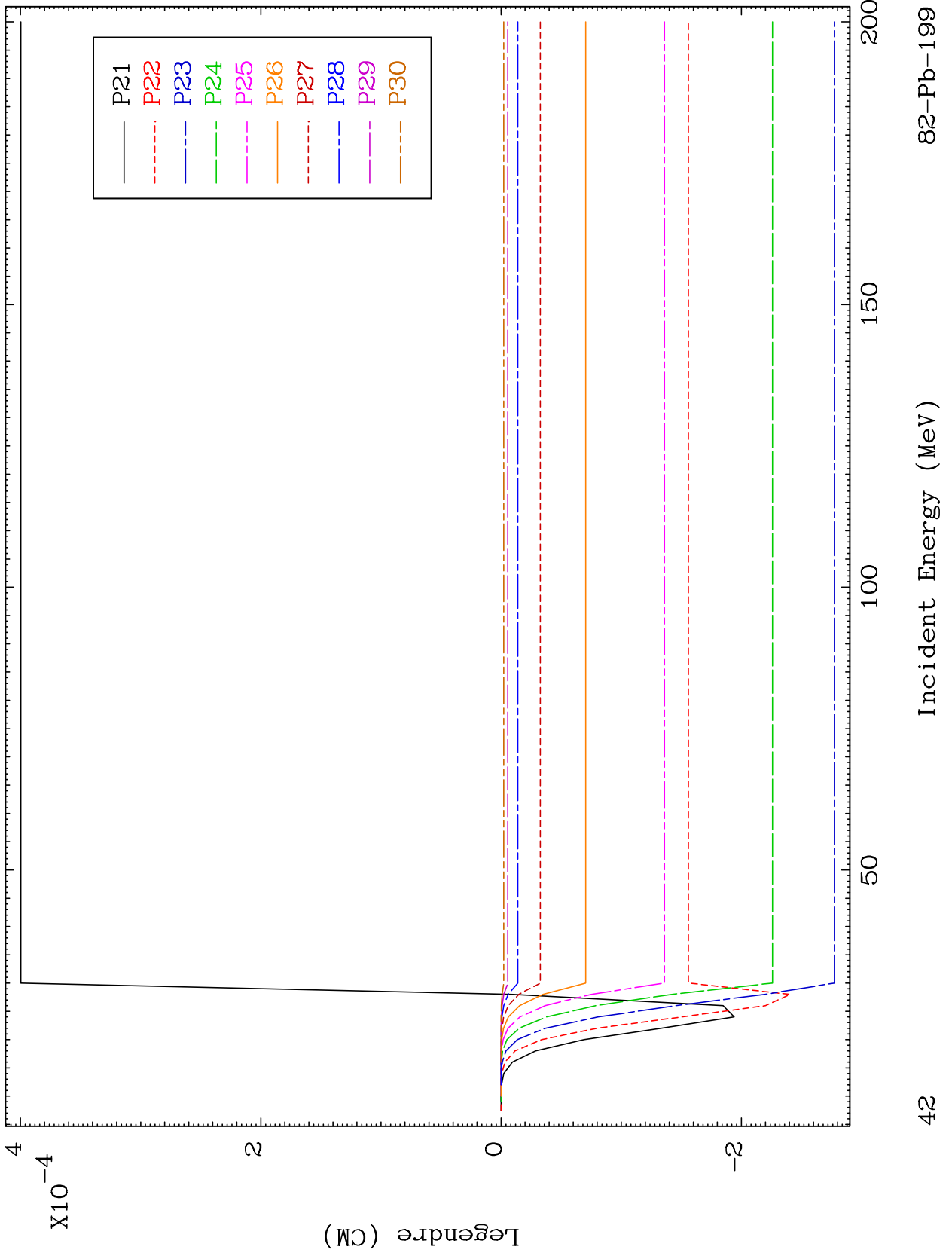
82-Pb-199

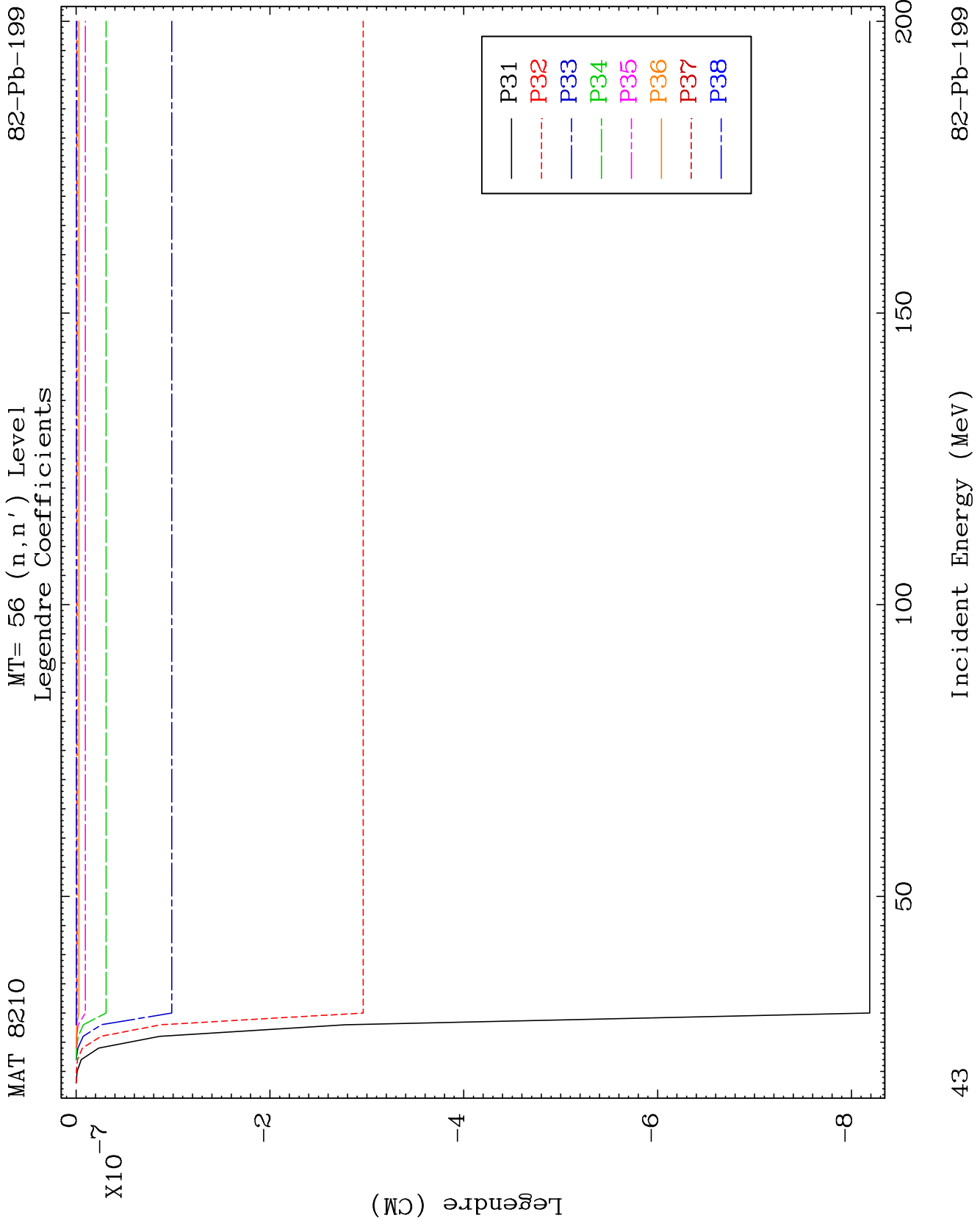


MAT 8210

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

82-Pb-199

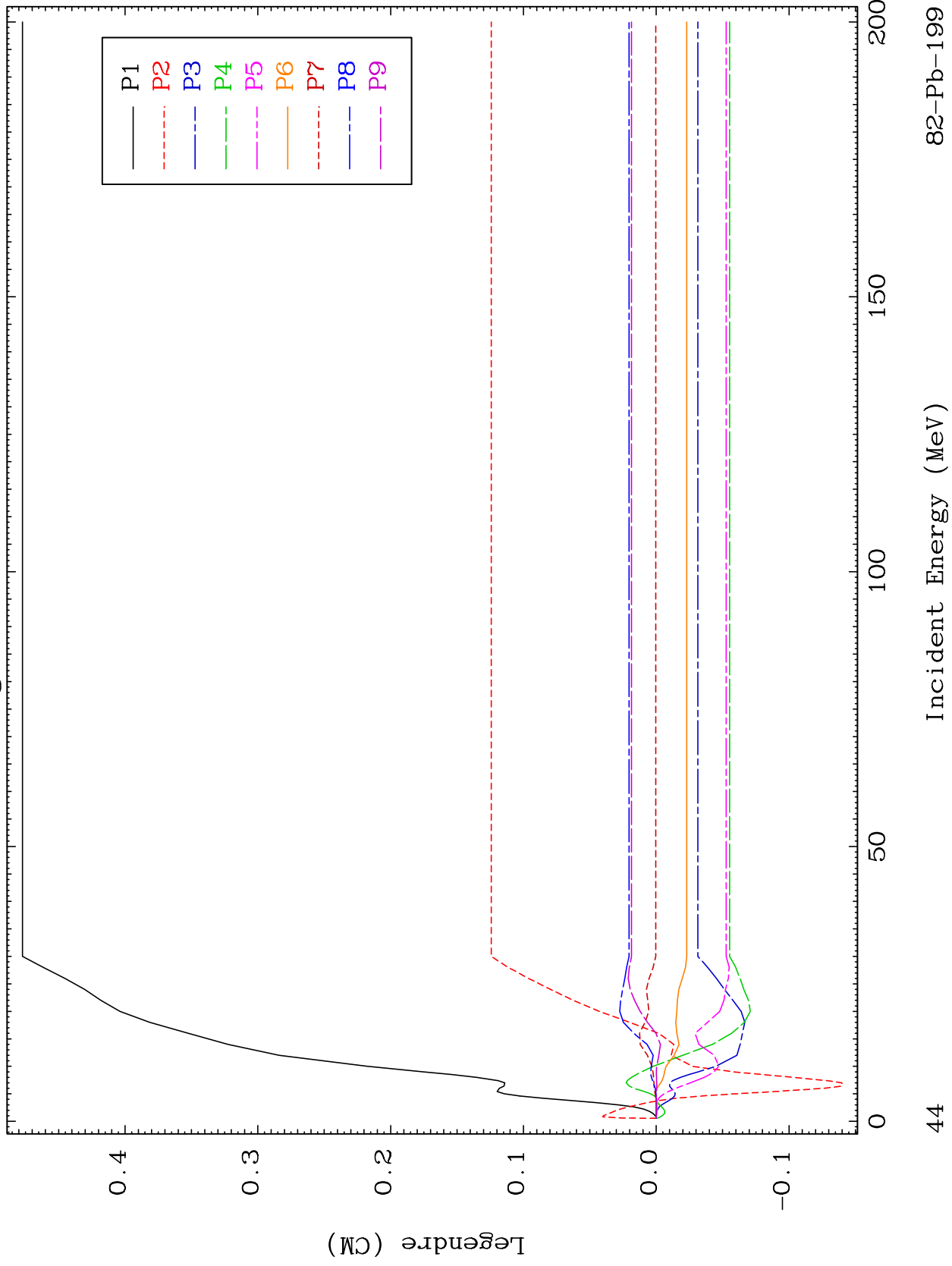




MAT 8210

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

82-Pb-199



82-Pb-199

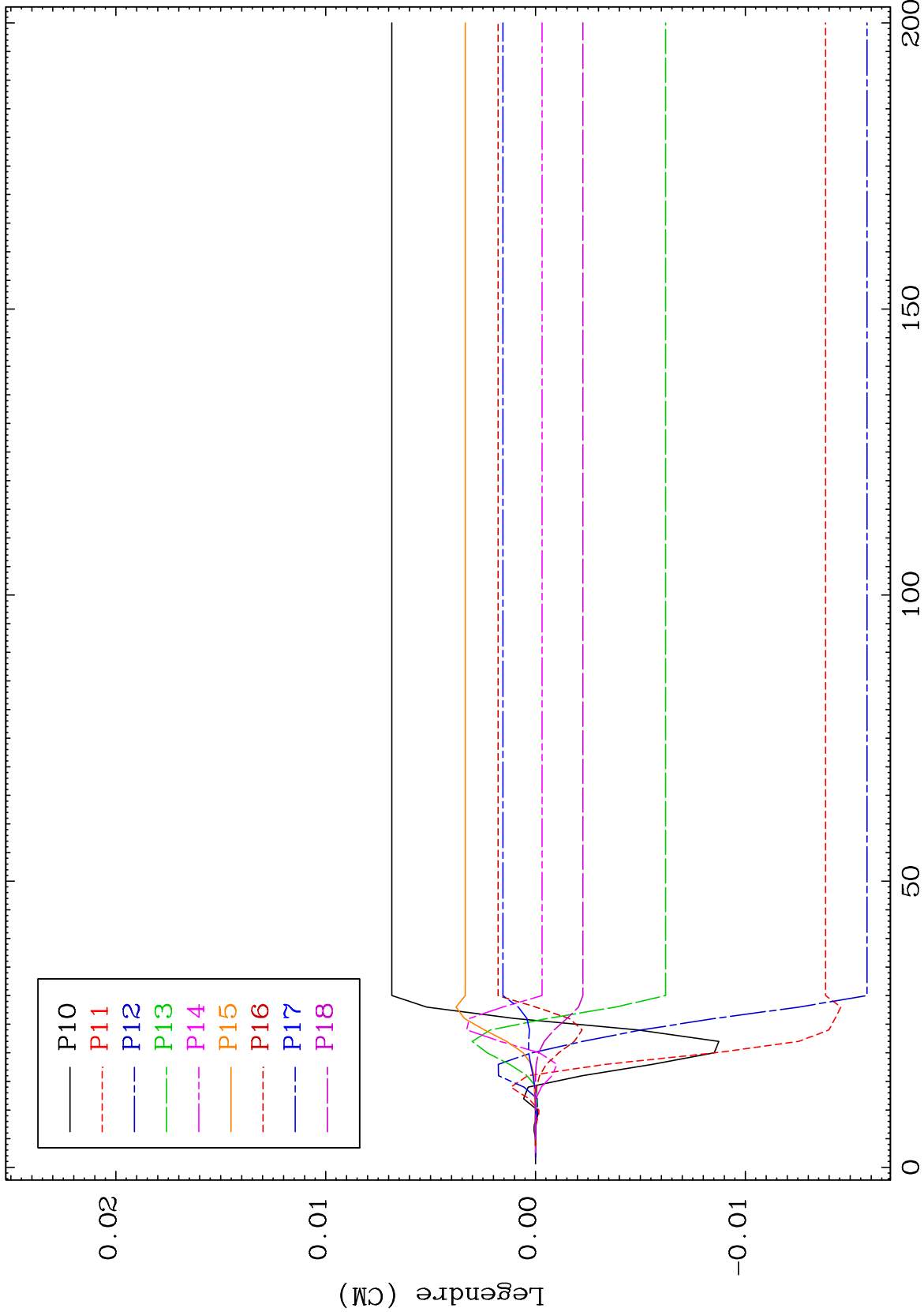
Incident Energy (MeV)

44

MAT 8210

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

82-Pb-199



45

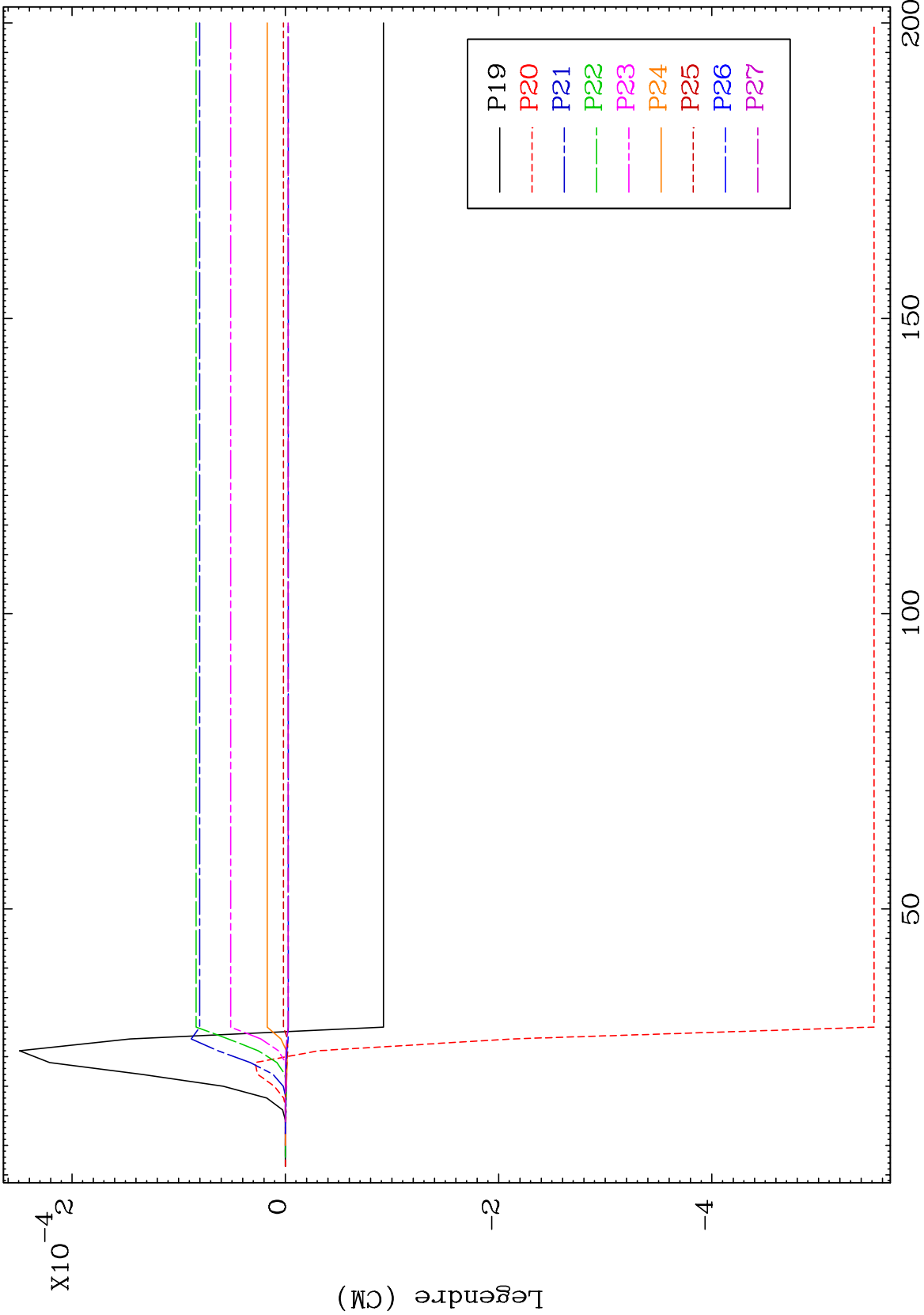
Incident Energy (MeV)

82-Pb-199

MAT 8210

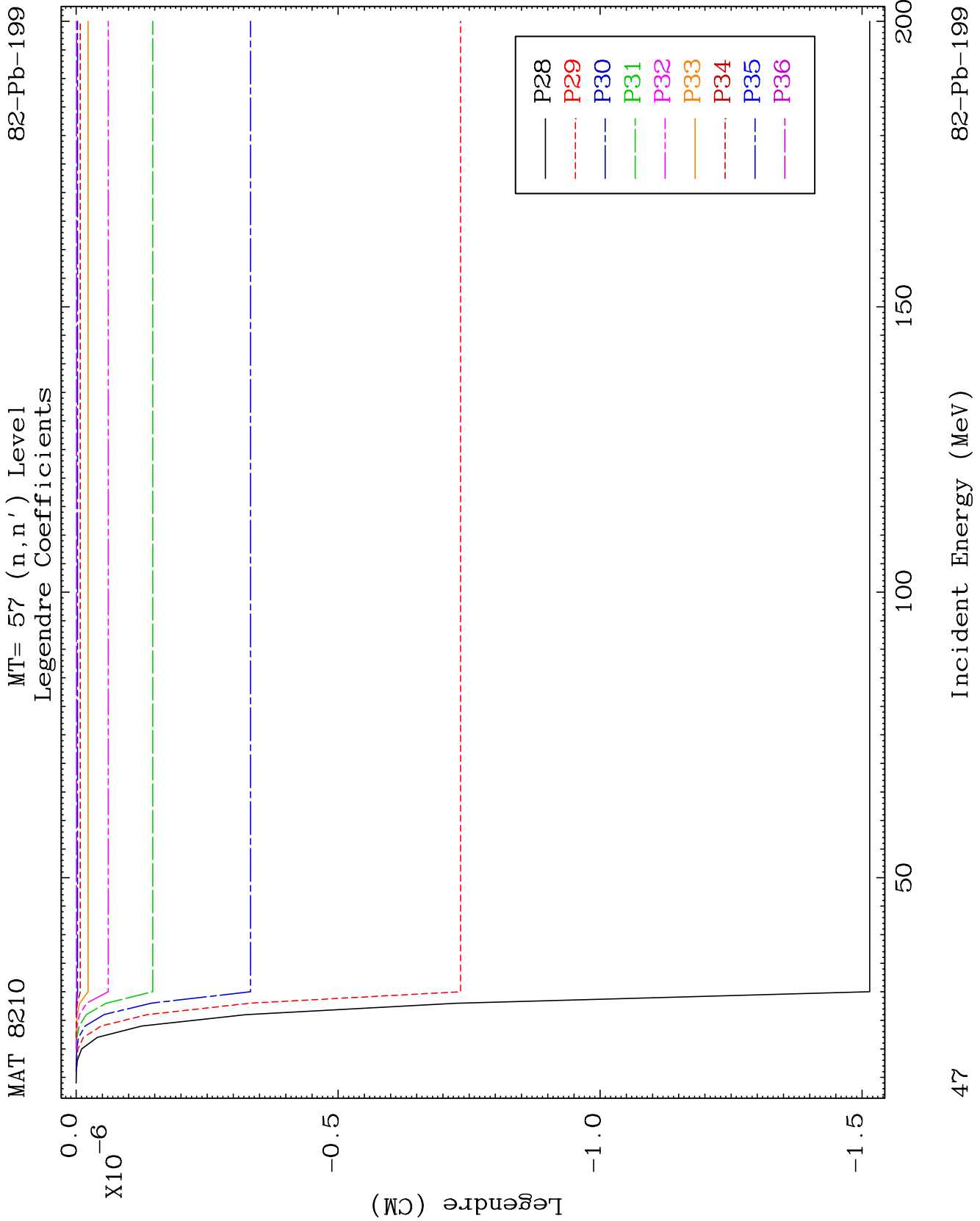
MT= 57 (n,n') Level
Legendre Coefficients

82-Pb-199



46

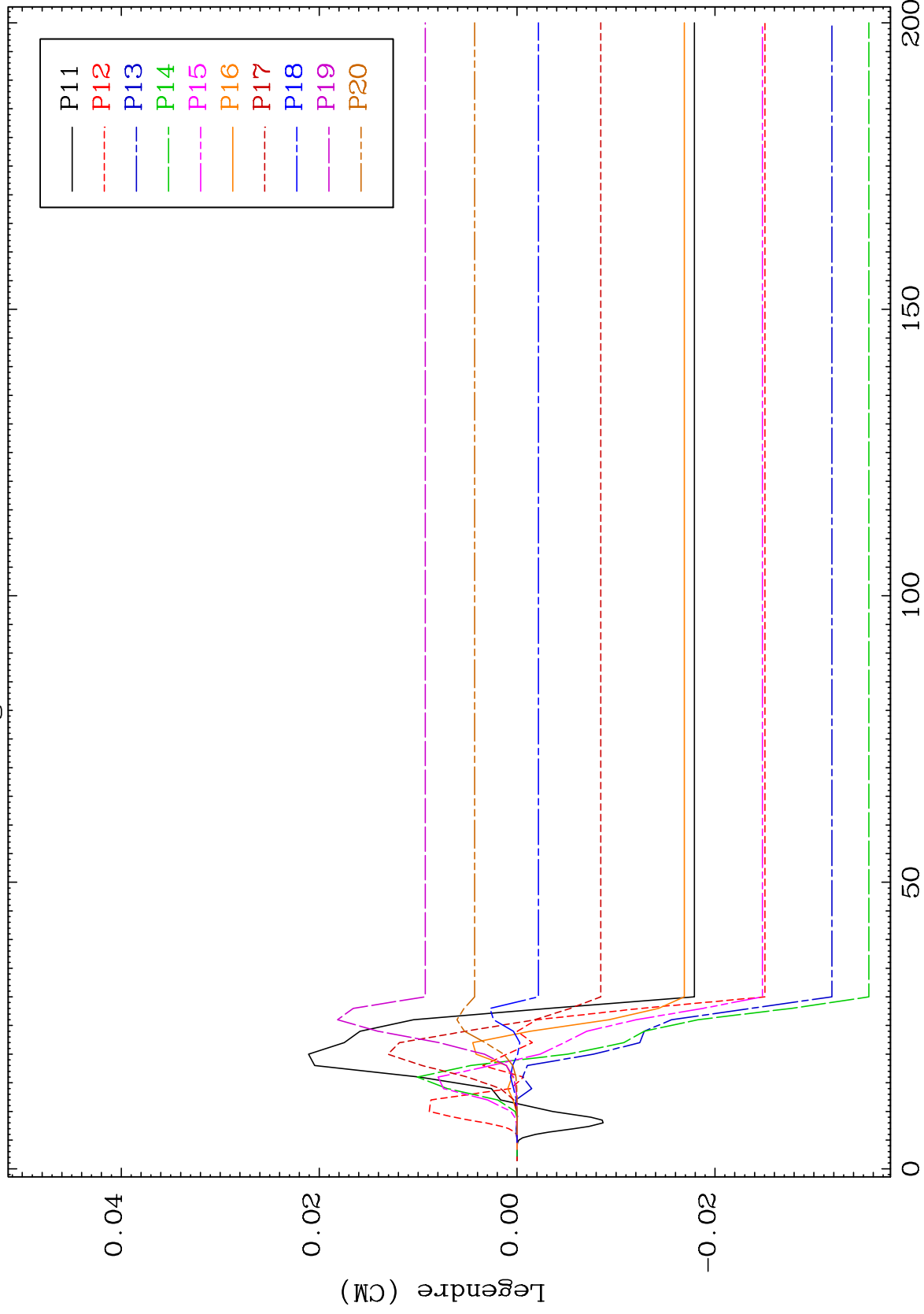
82-Pb-199



MAT 8210

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

82-Pb-199



49

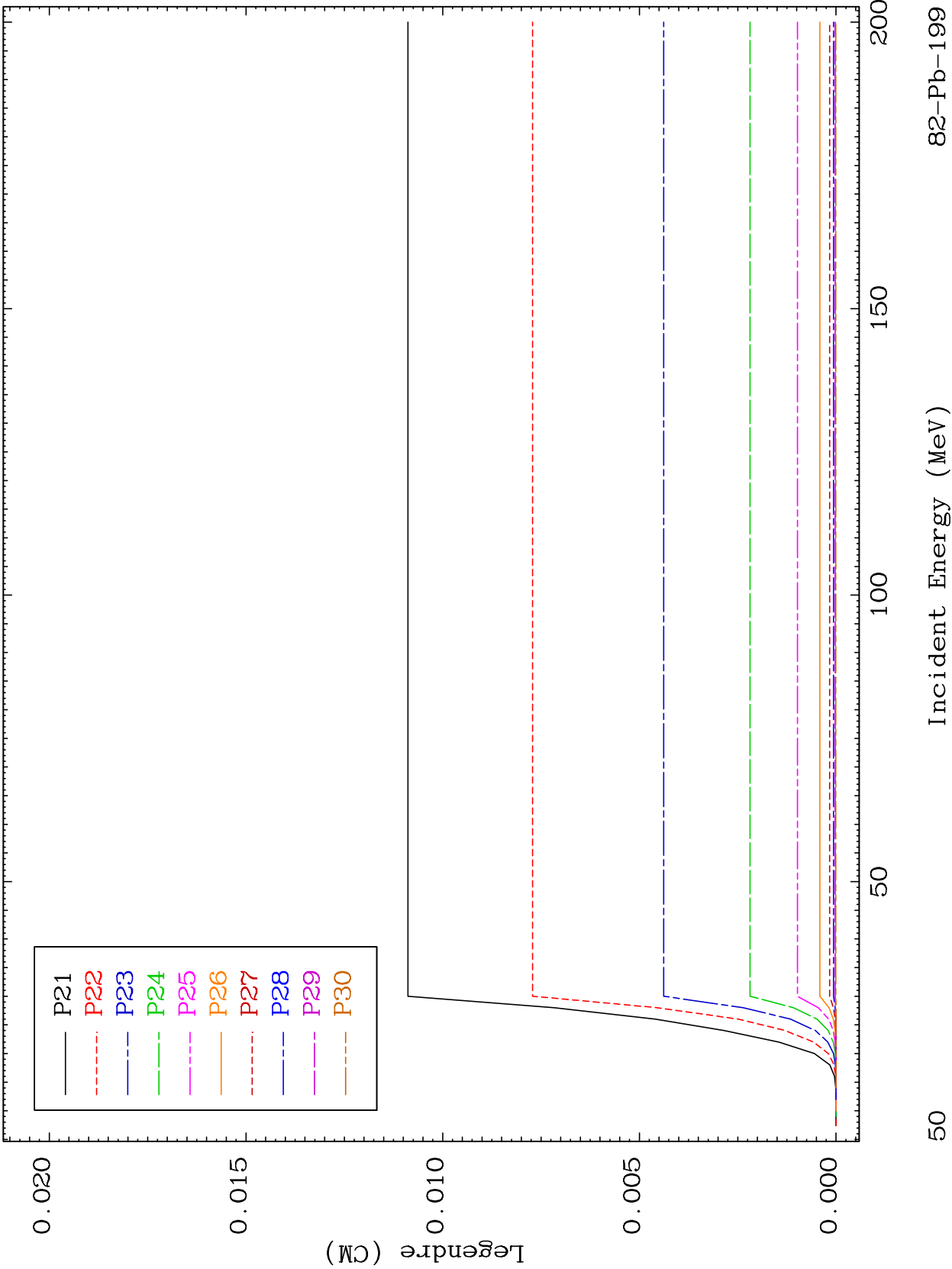
Incident Energy (MeV)

82-Pb-199

MAT 8210

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

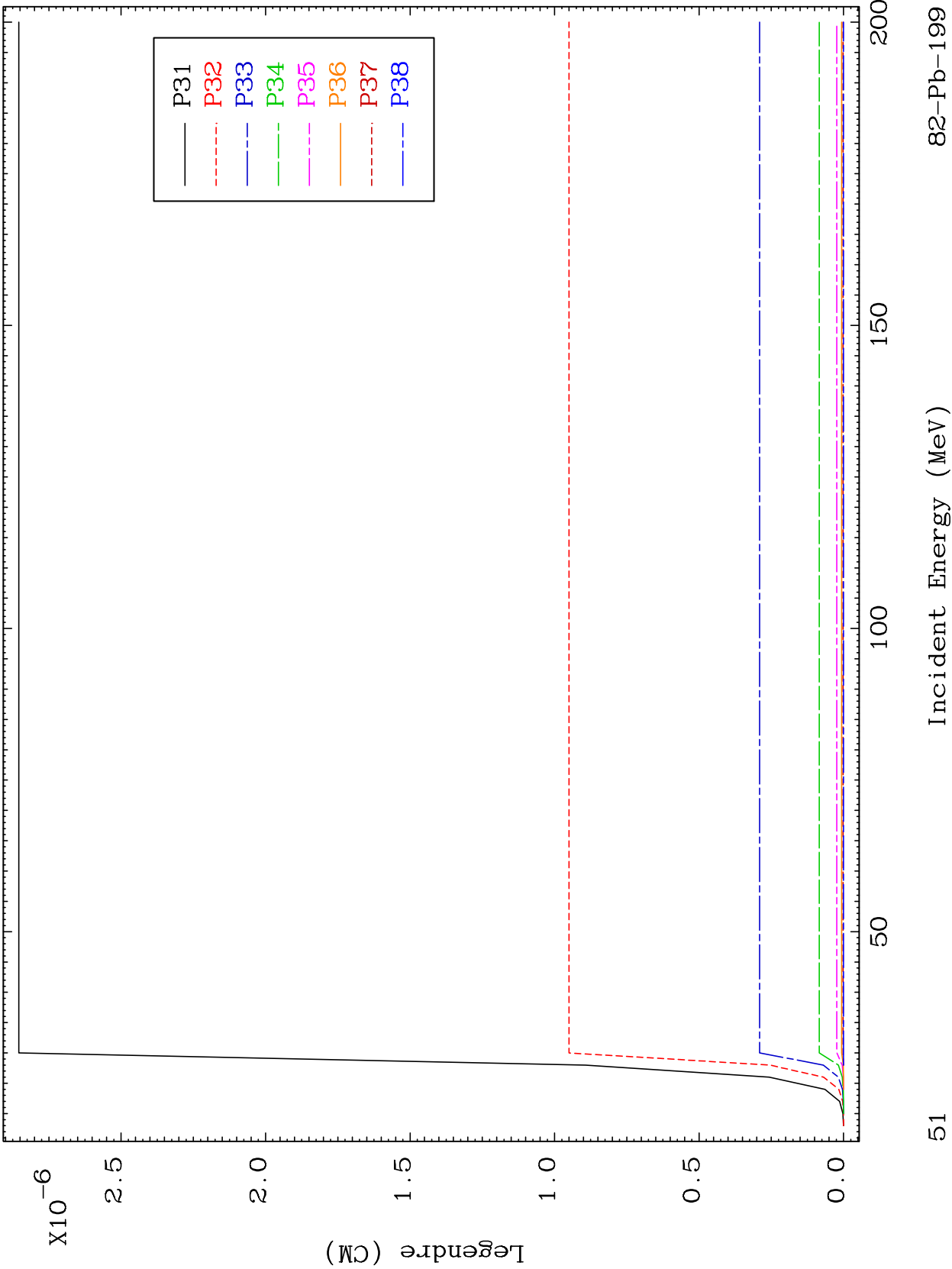
82-Pb-199



82-Pb-199

Incident Energy (MeV)

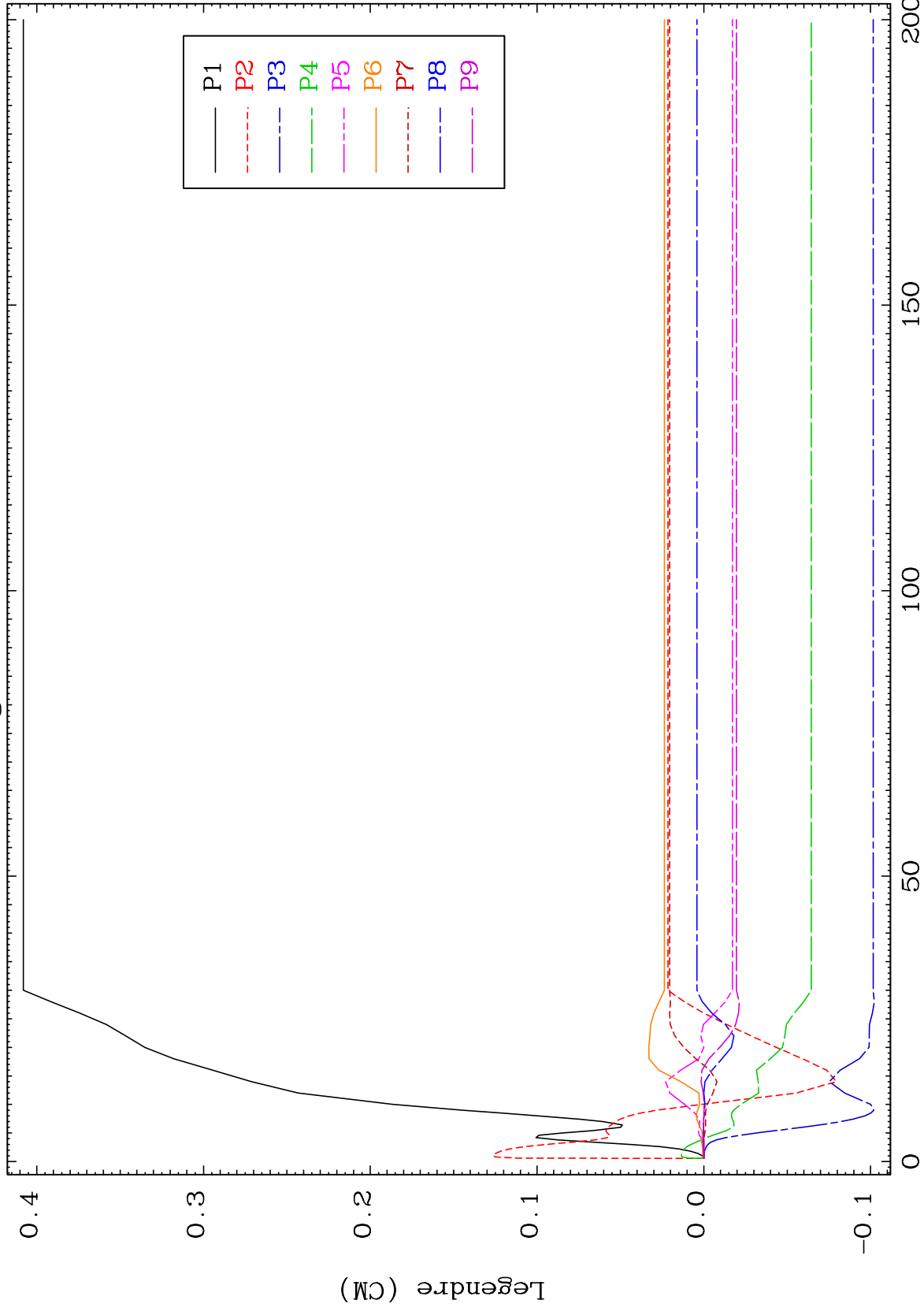
50



MAT 8210

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

82-Pb-199



52

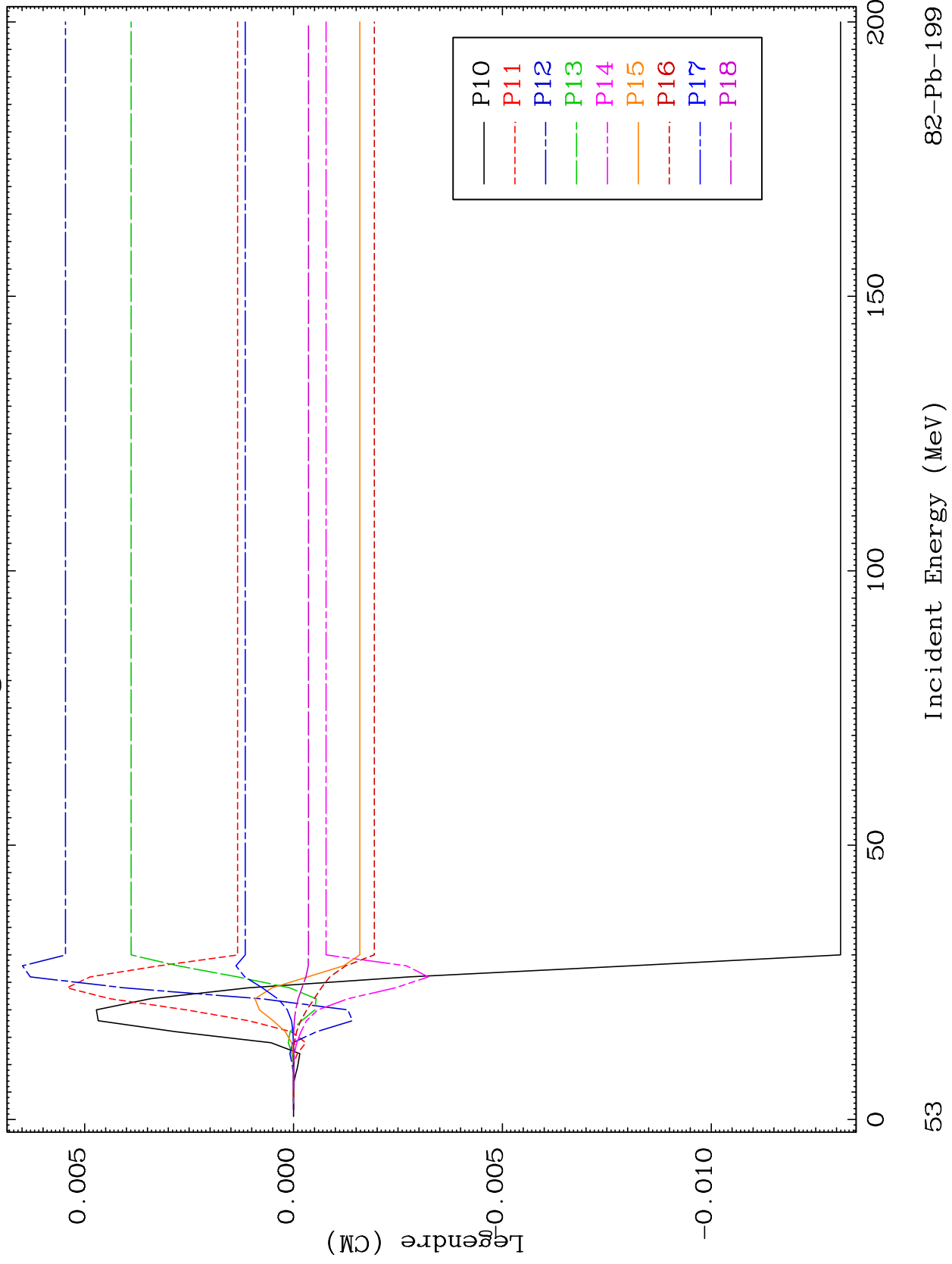
Incident Energy (MeV)

82-Pb-199

MAT 8210

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

82-Pb-199



82-Pb-199

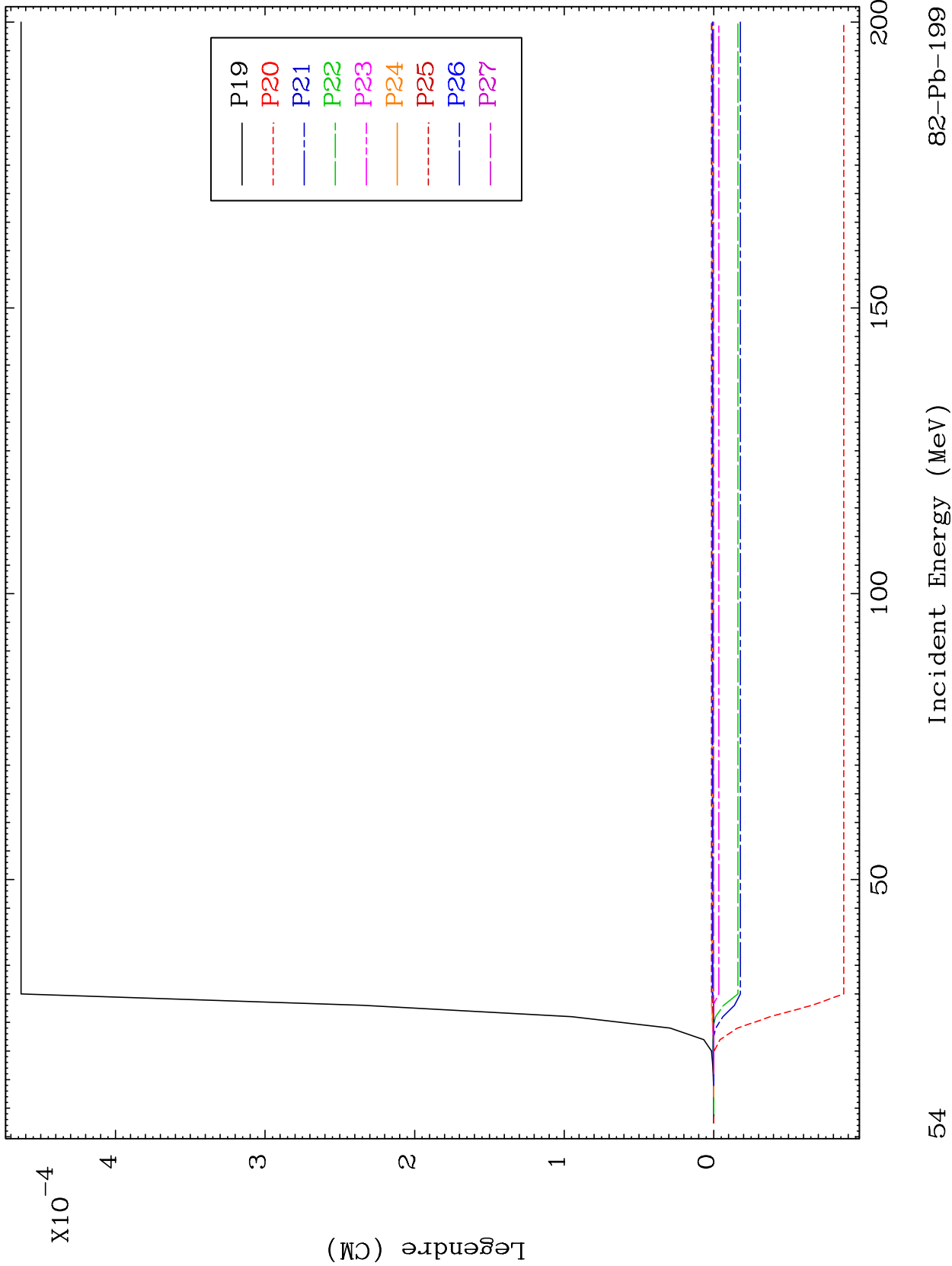
Incident Energy (MeV)

53

MAT 8210

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

82-Pb-199



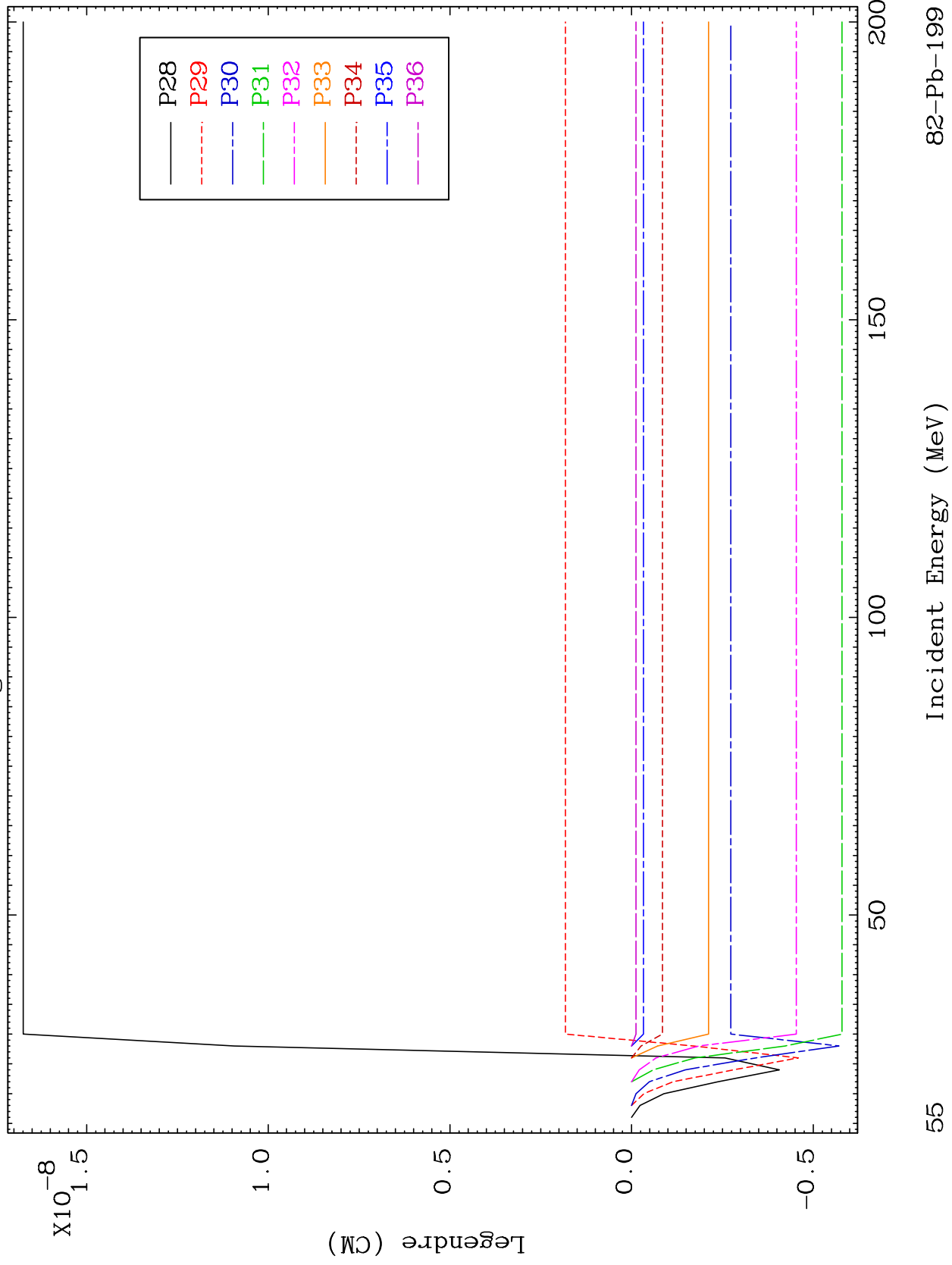
54

82-Pb-199

MAT 8210

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

82-Pb-199



55

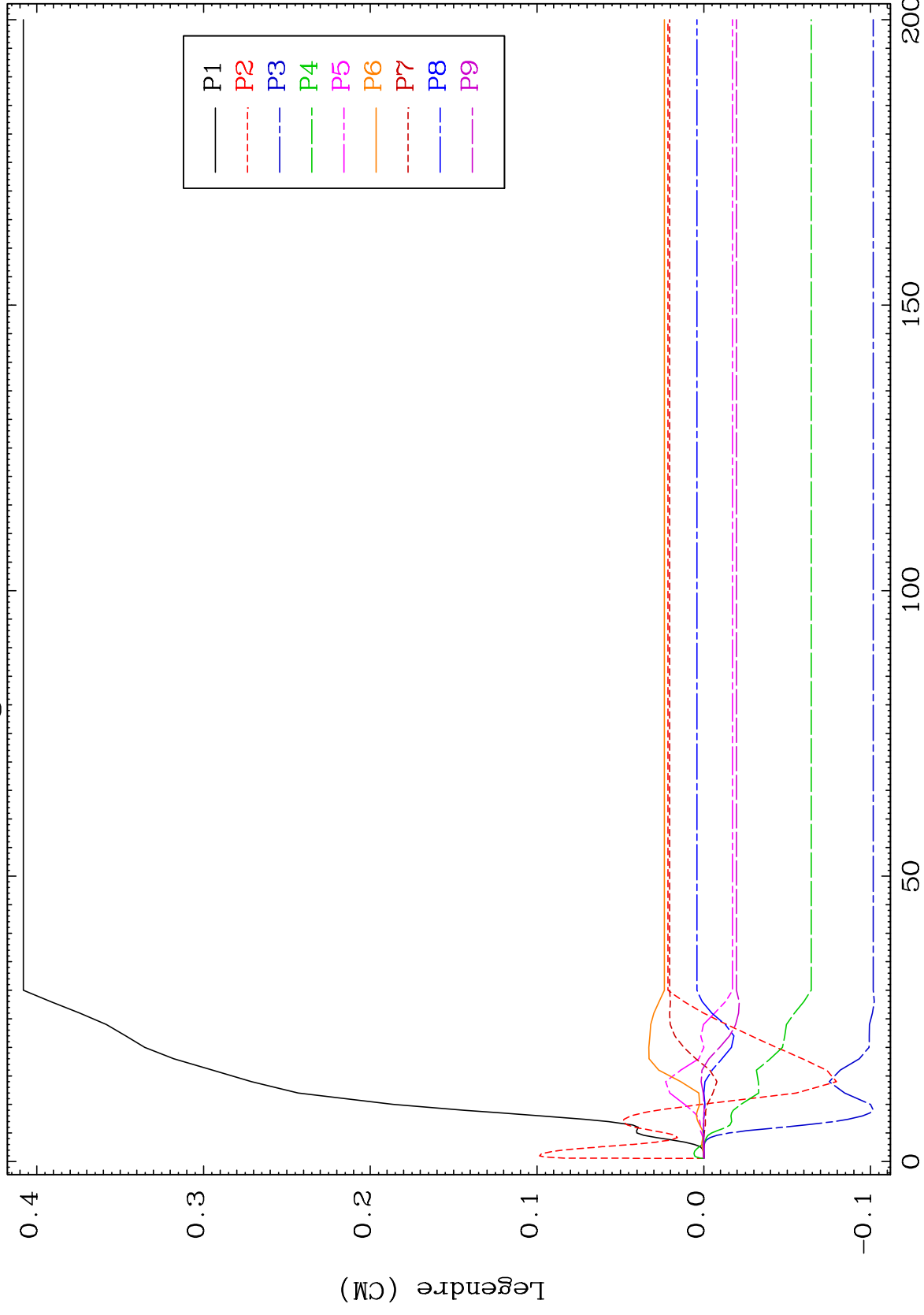
Incident Energy (MeV)

82-Pb-199

MAT 8210

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

82-Pb-199



56

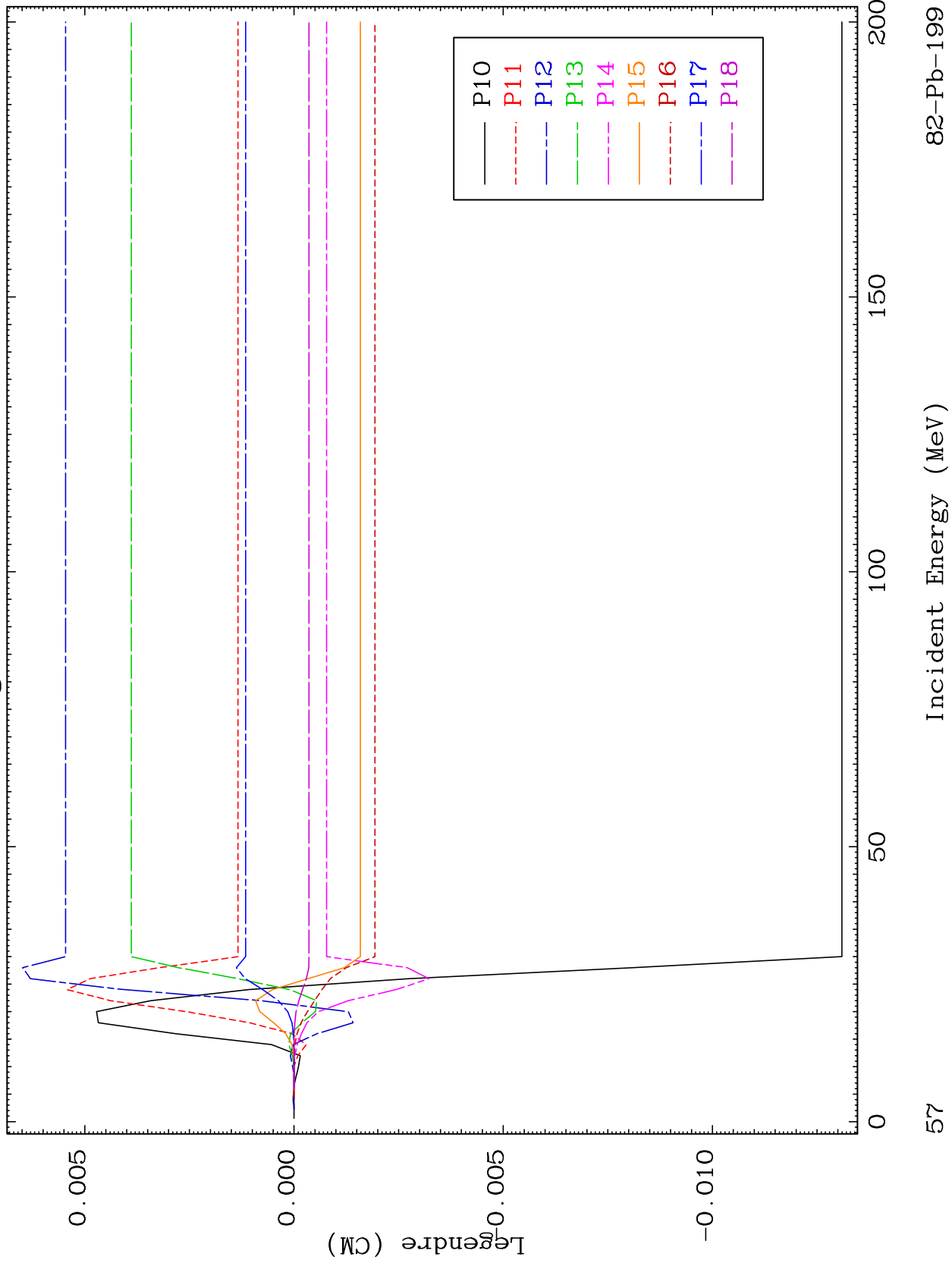
Incident Energy (MeV)

82-Pb-199

MAT 8210

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

82-Pb-199



57

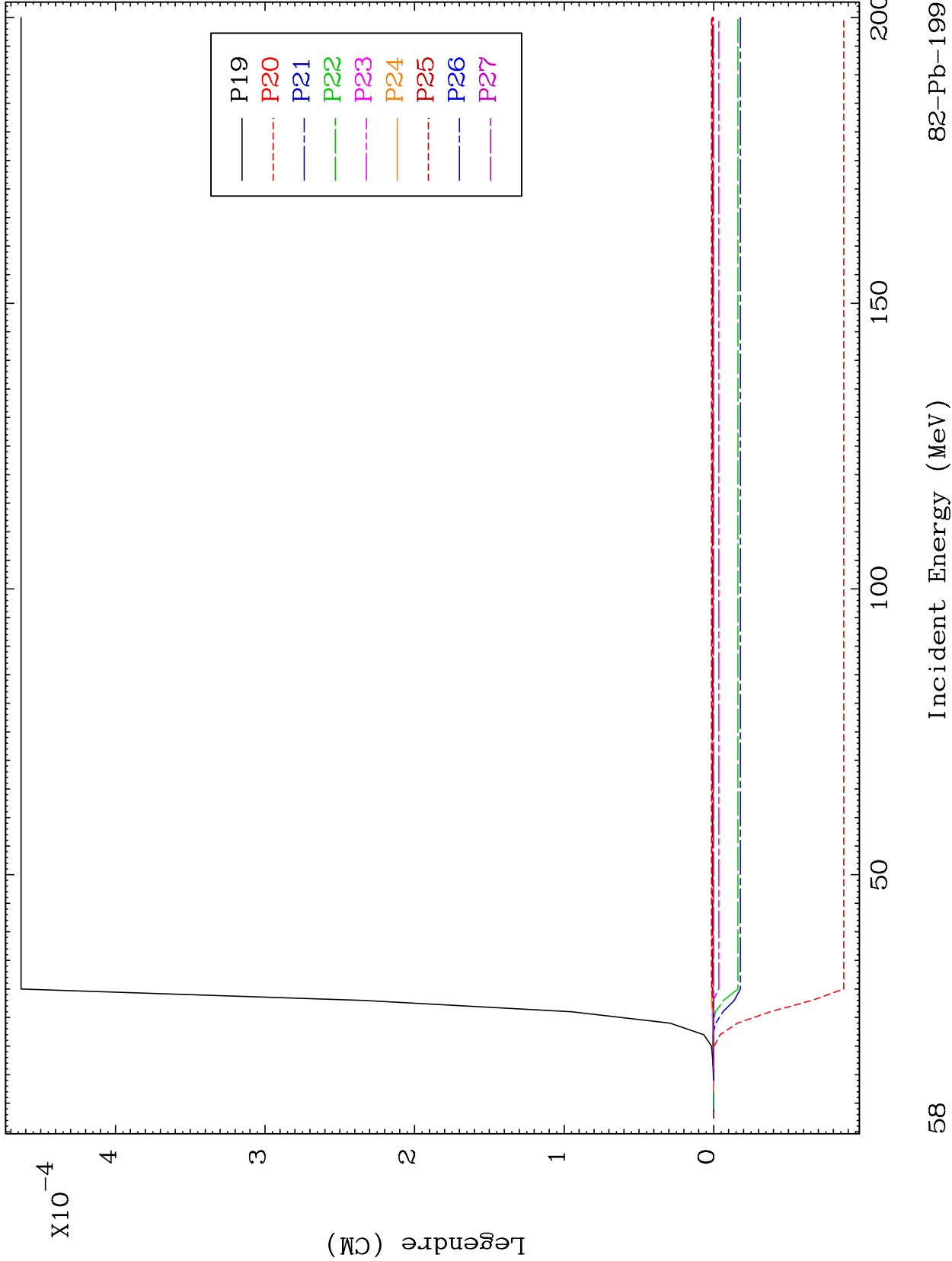
Incident Energy (MeV)

82-Pb-199

MAT 8210

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

82-Pb-199



58

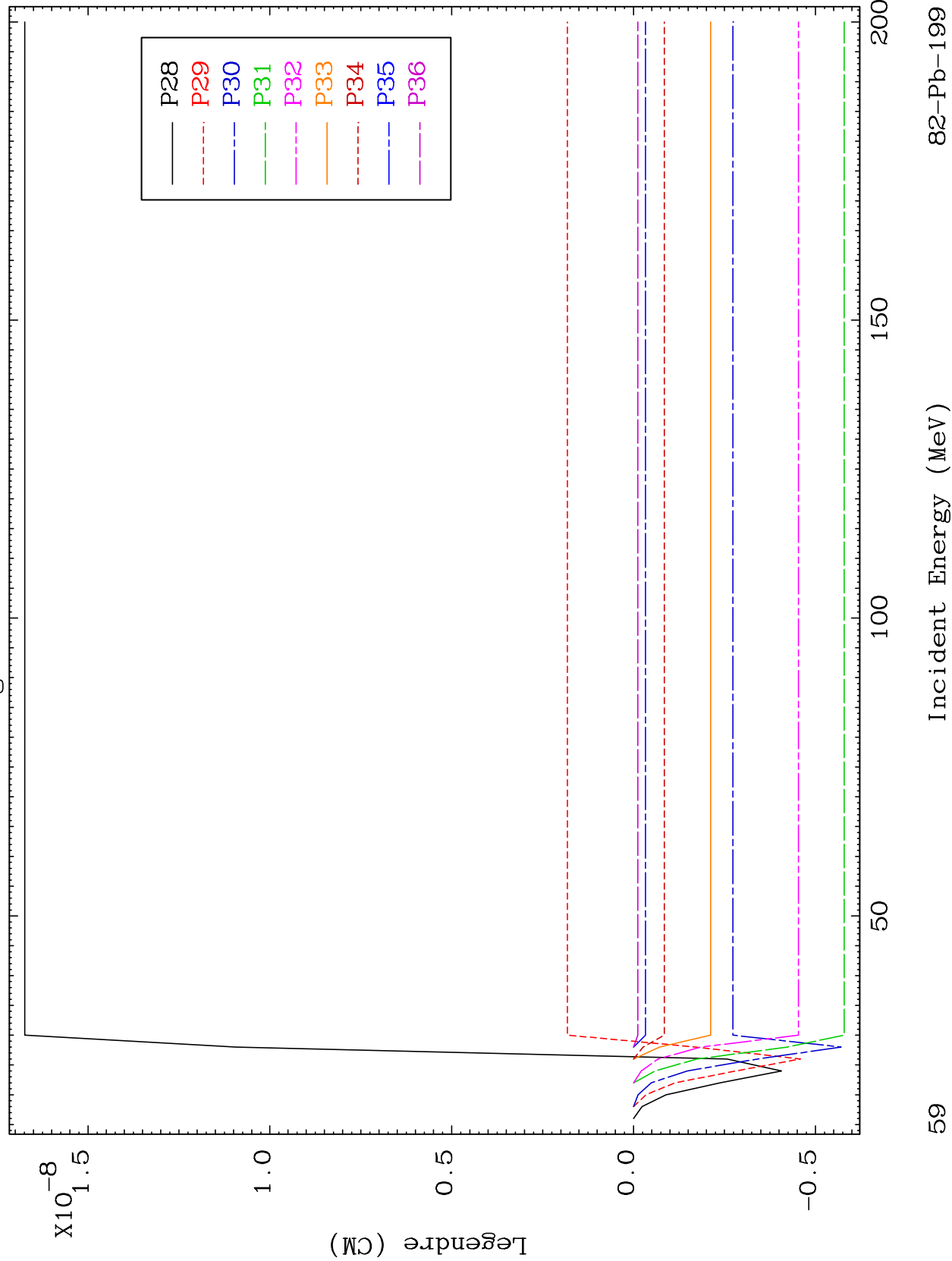
Incident Energy (MeV)

82-Pb-199

MAT 8210

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

82-Pb-199



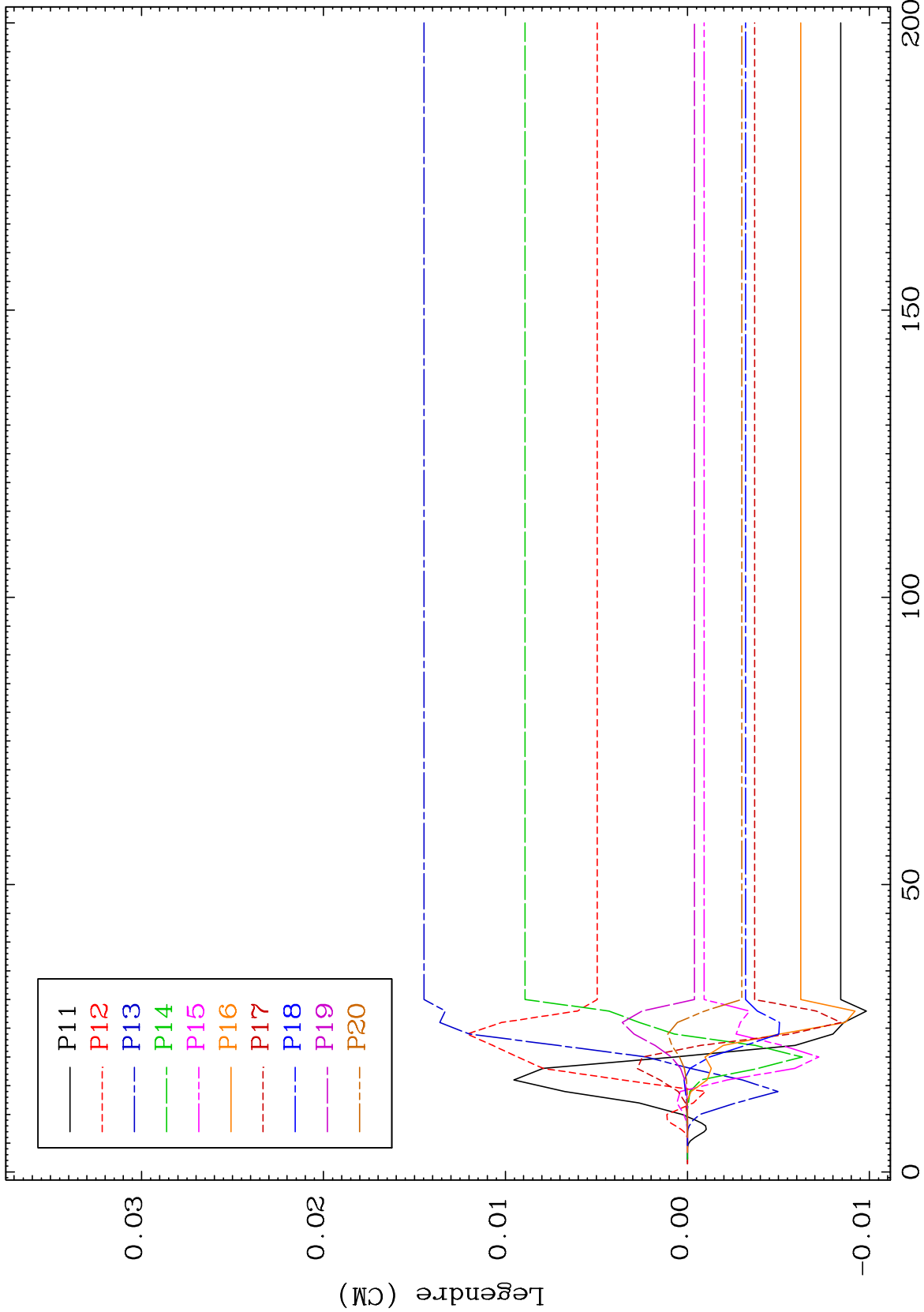
59

82-Pb-199

MAT 8210

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

82-Pb-199



61

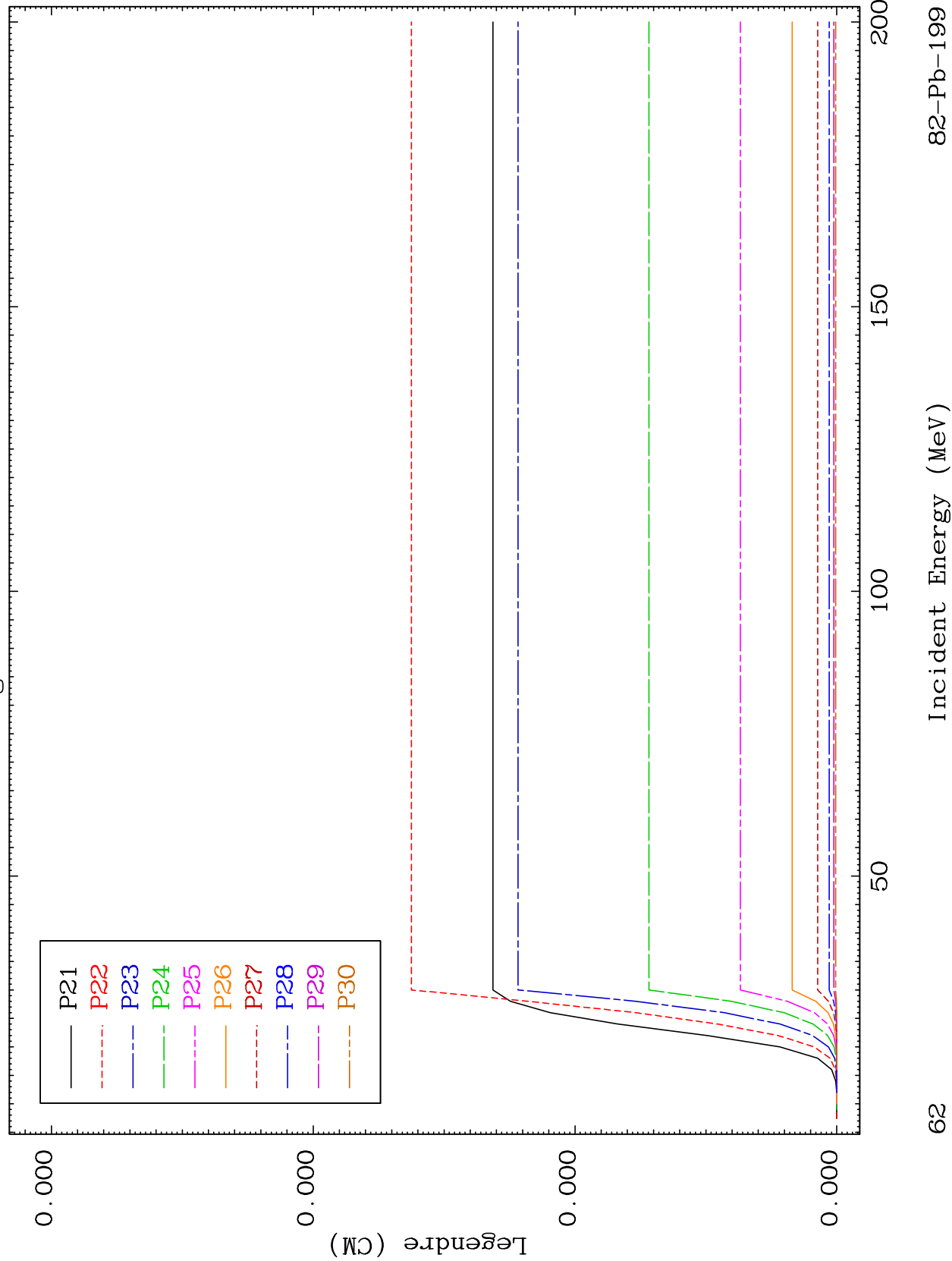
Incident Energy (MeV)

82-Pb-199

MAT 8210

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

82-Pb-199



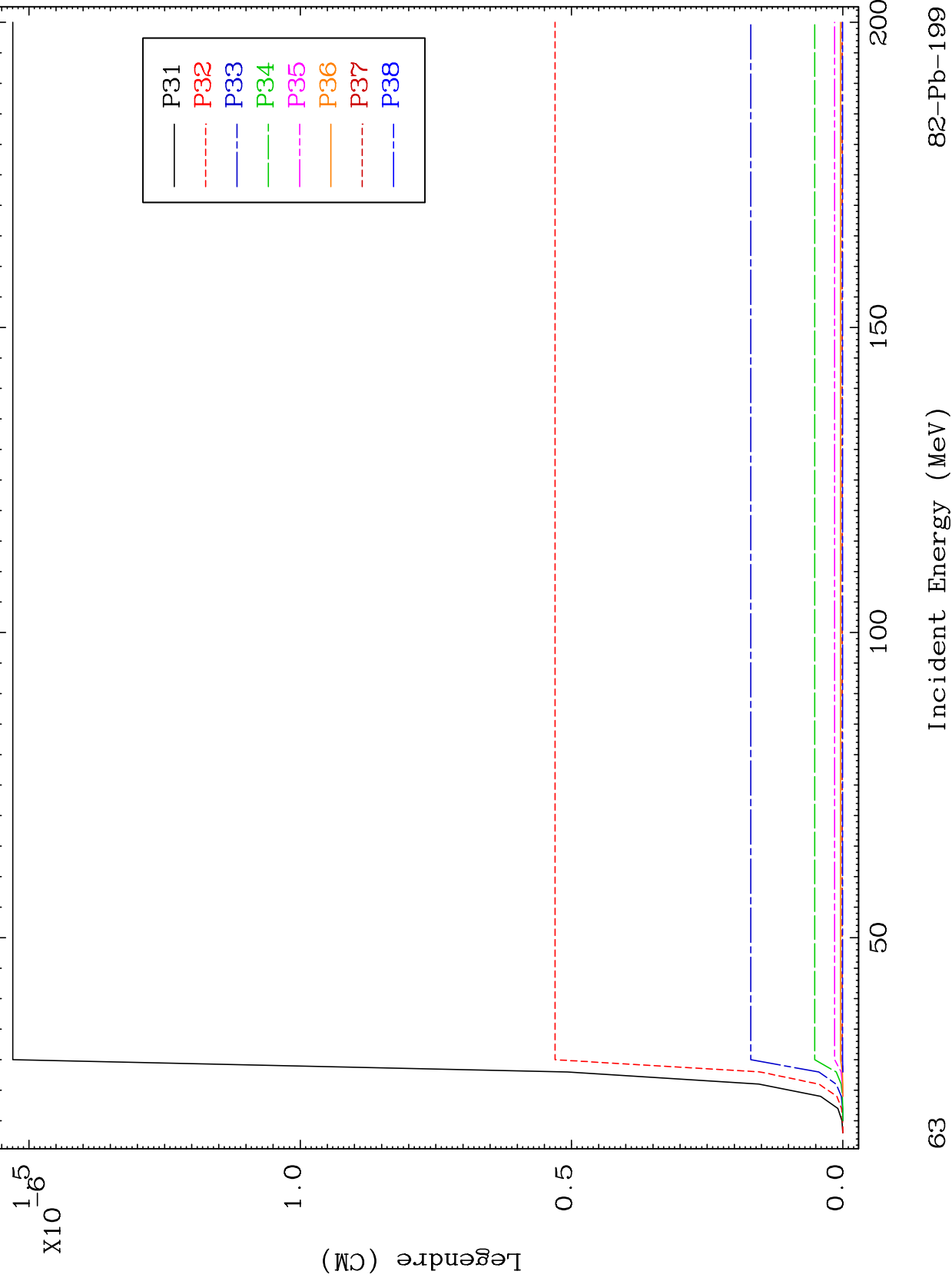
62

82-Pb-199

MAT 8210

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

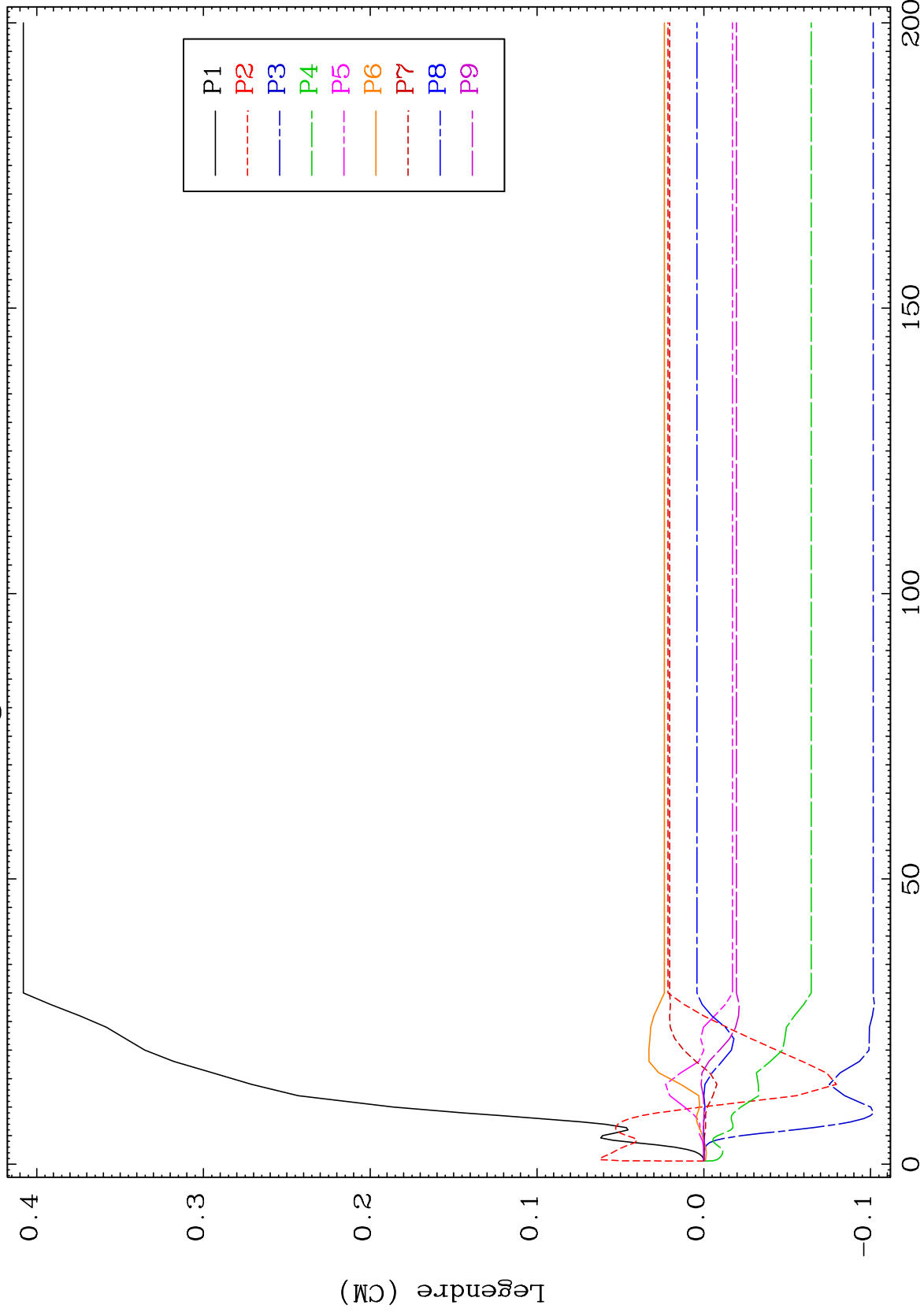
82-Pb-199



MAT 8210

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

82-Pb-199



64

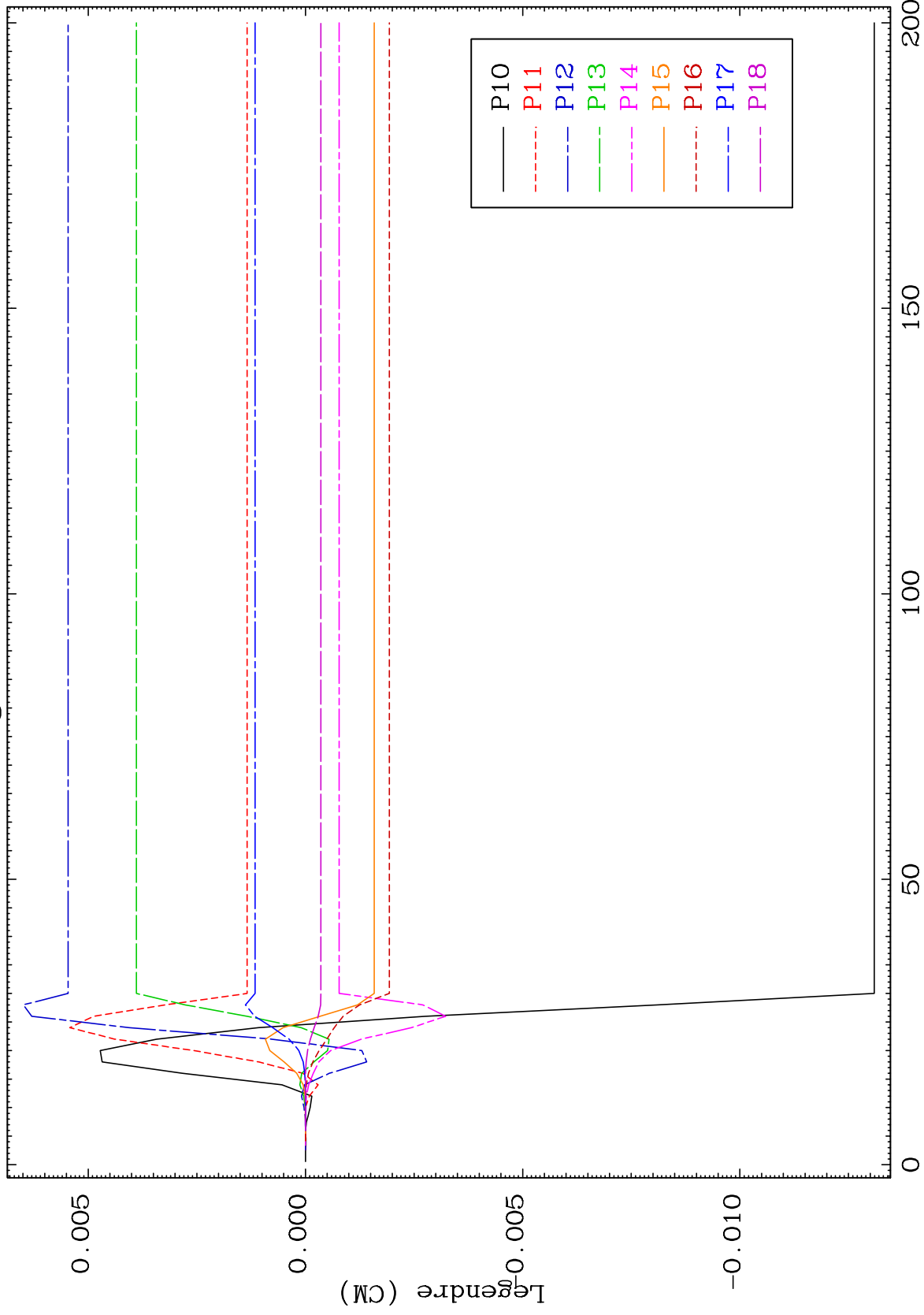
Incident Energy (MeV)

82-Pb-199

MAT 8210

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

82-Pb-199



65

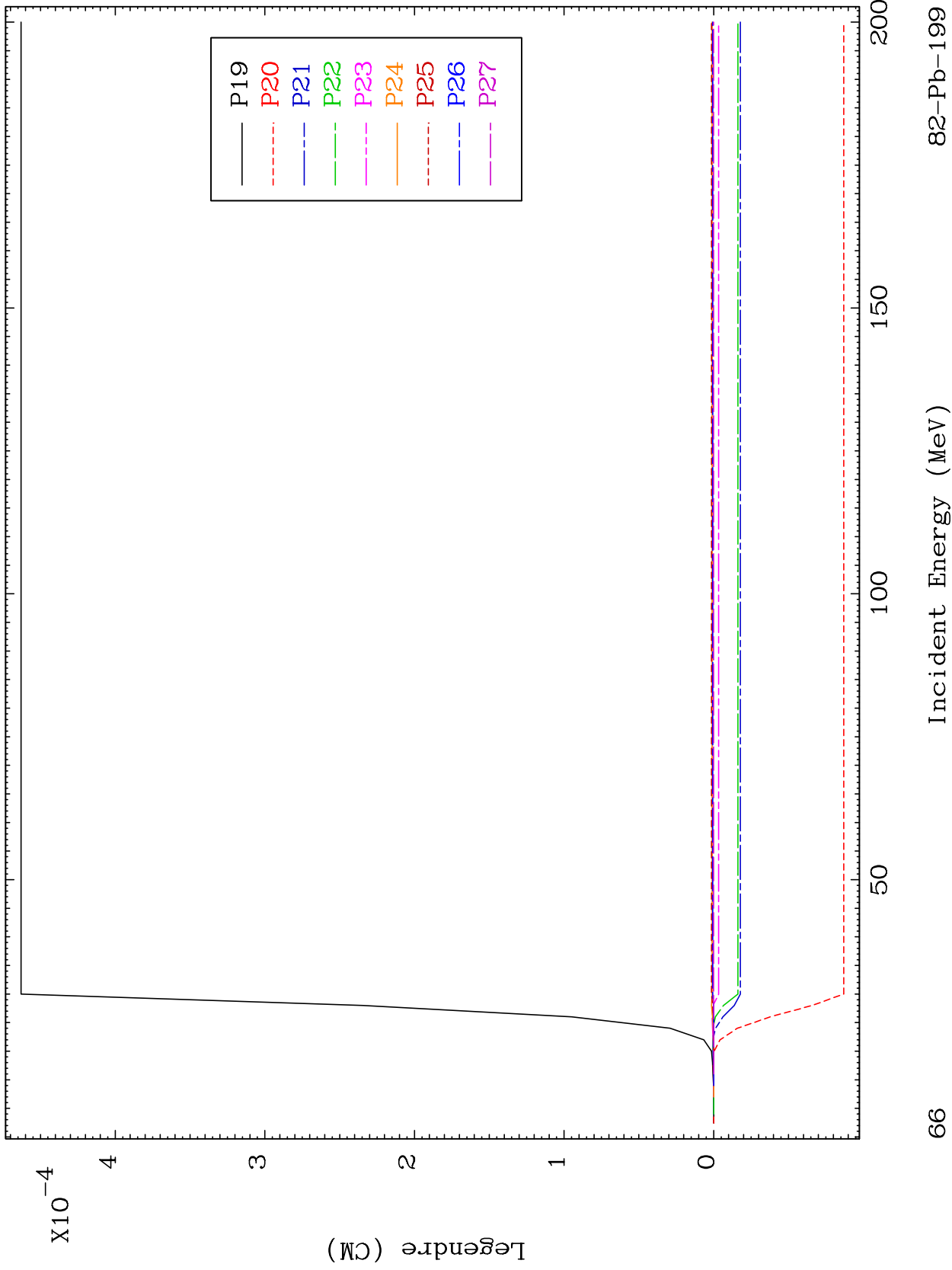
Incident Energy (MeV)

82-Pb-199

MAT 8210

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

82-Pb-199



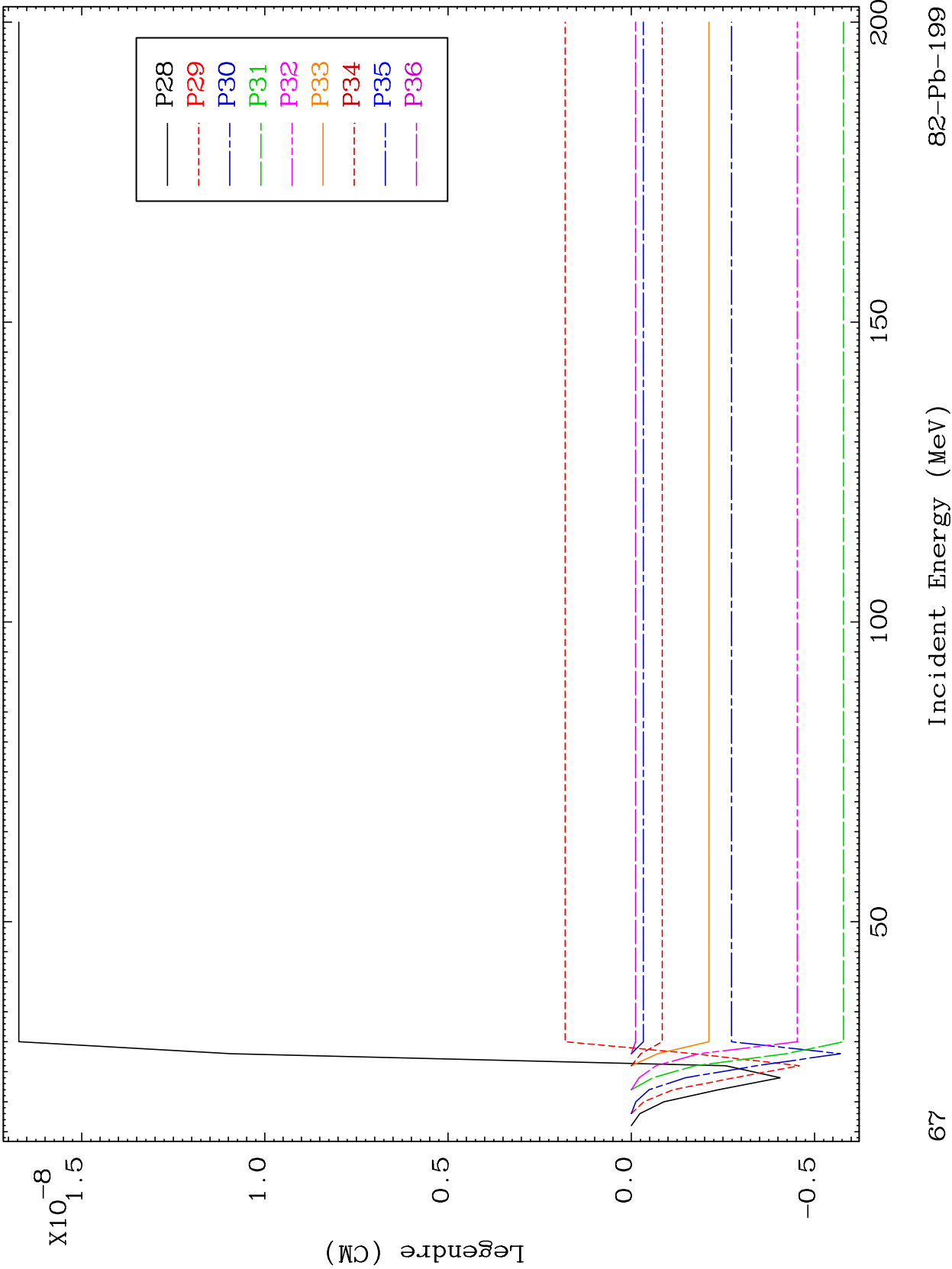
66

82-Pb-199

MAT 8210

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

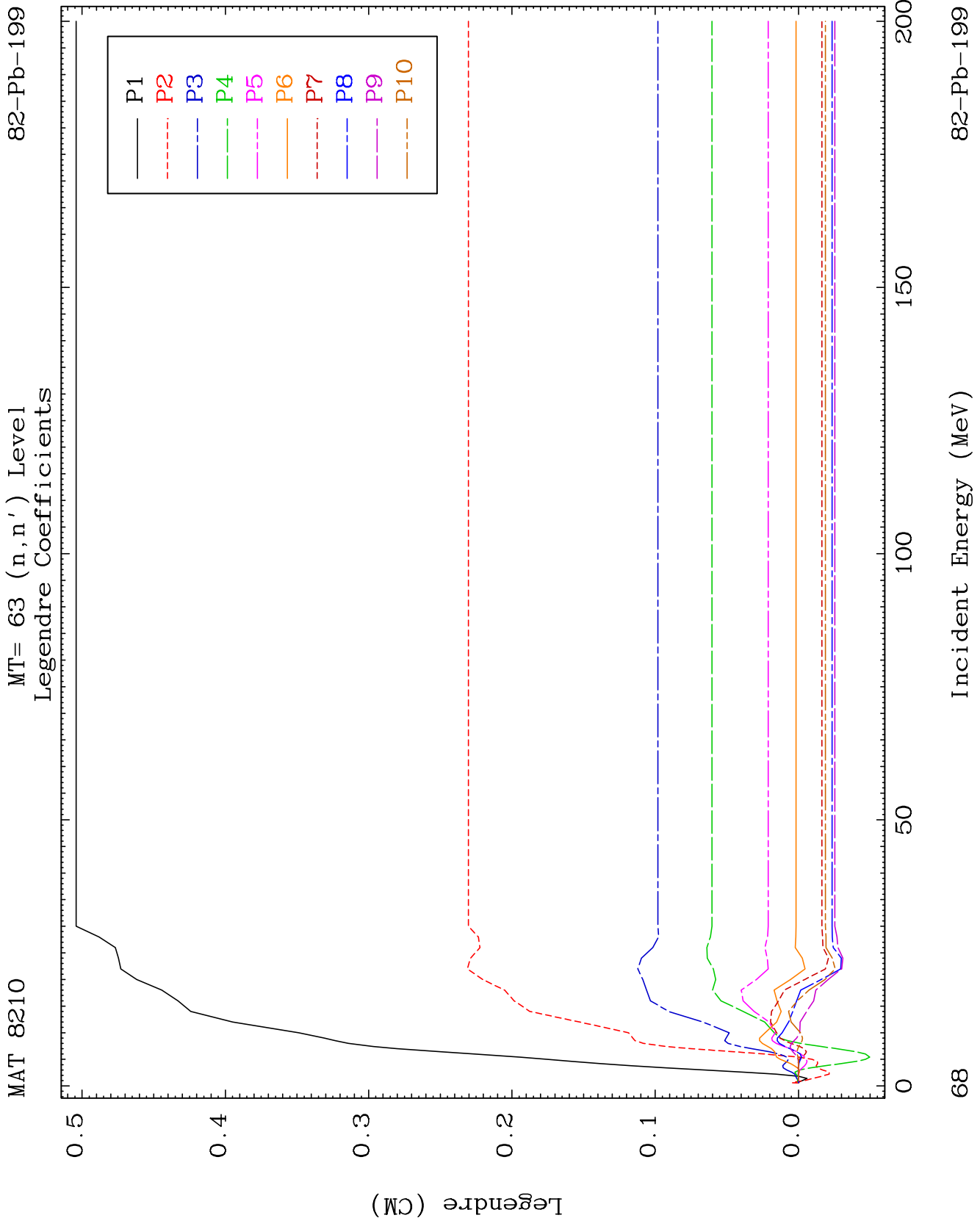
82-Pb-199



67

Incident Energy (MeV)

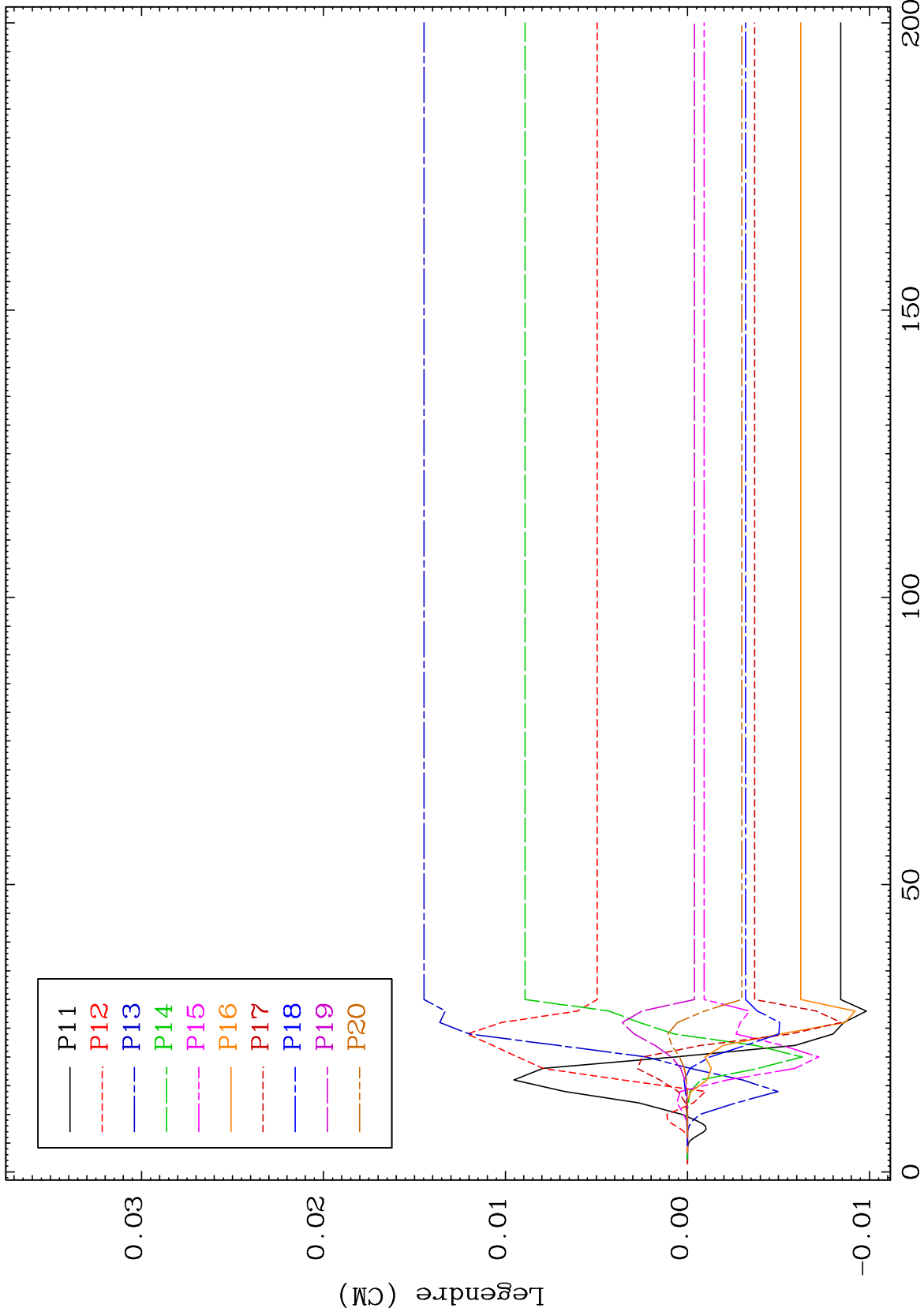
82-Pb-199



MAT 8210

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

82-Pb-199



69

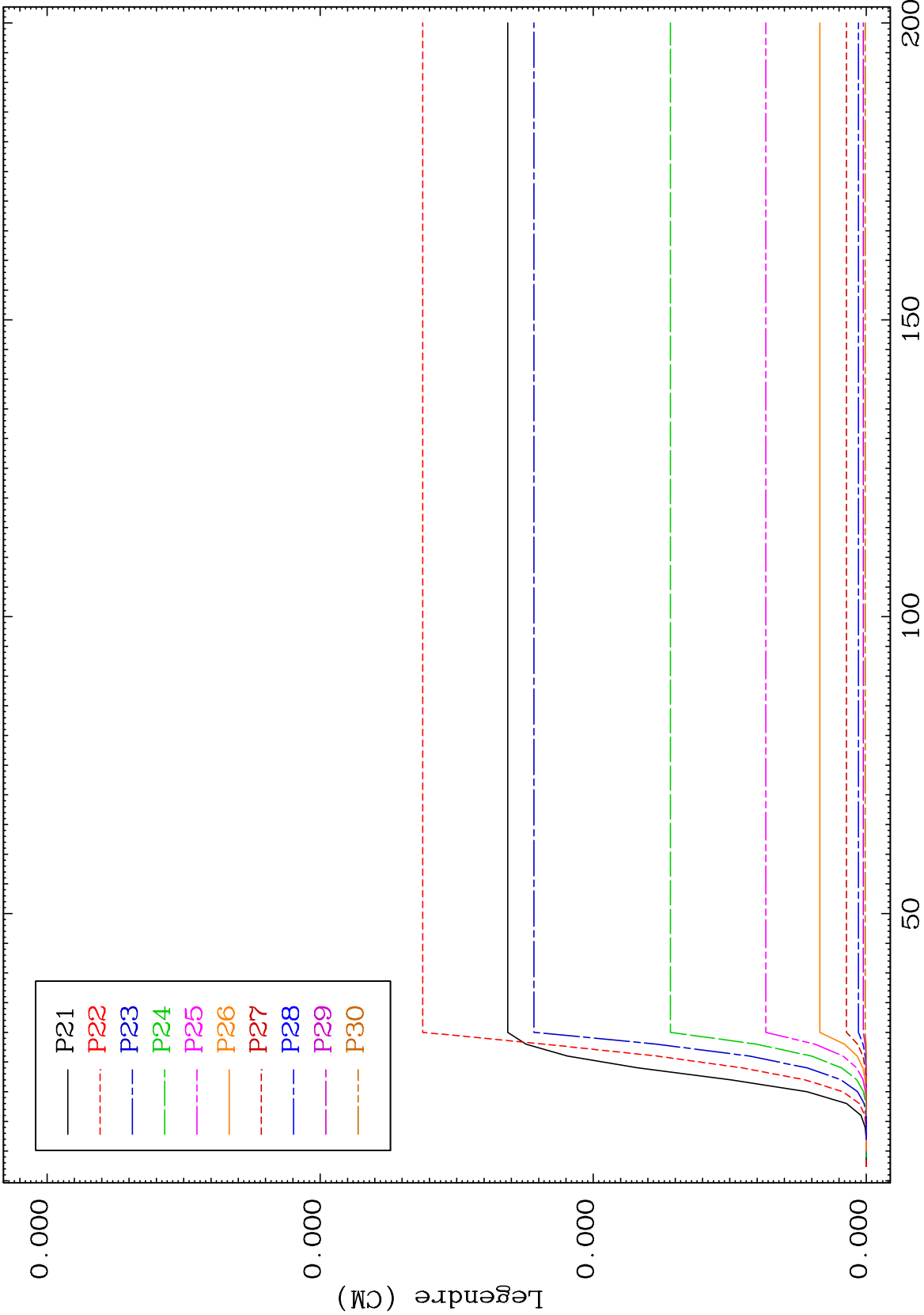
Incident Energy (MeV)

82-Pb-199

MAT 8210

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

82-Pb-199



70

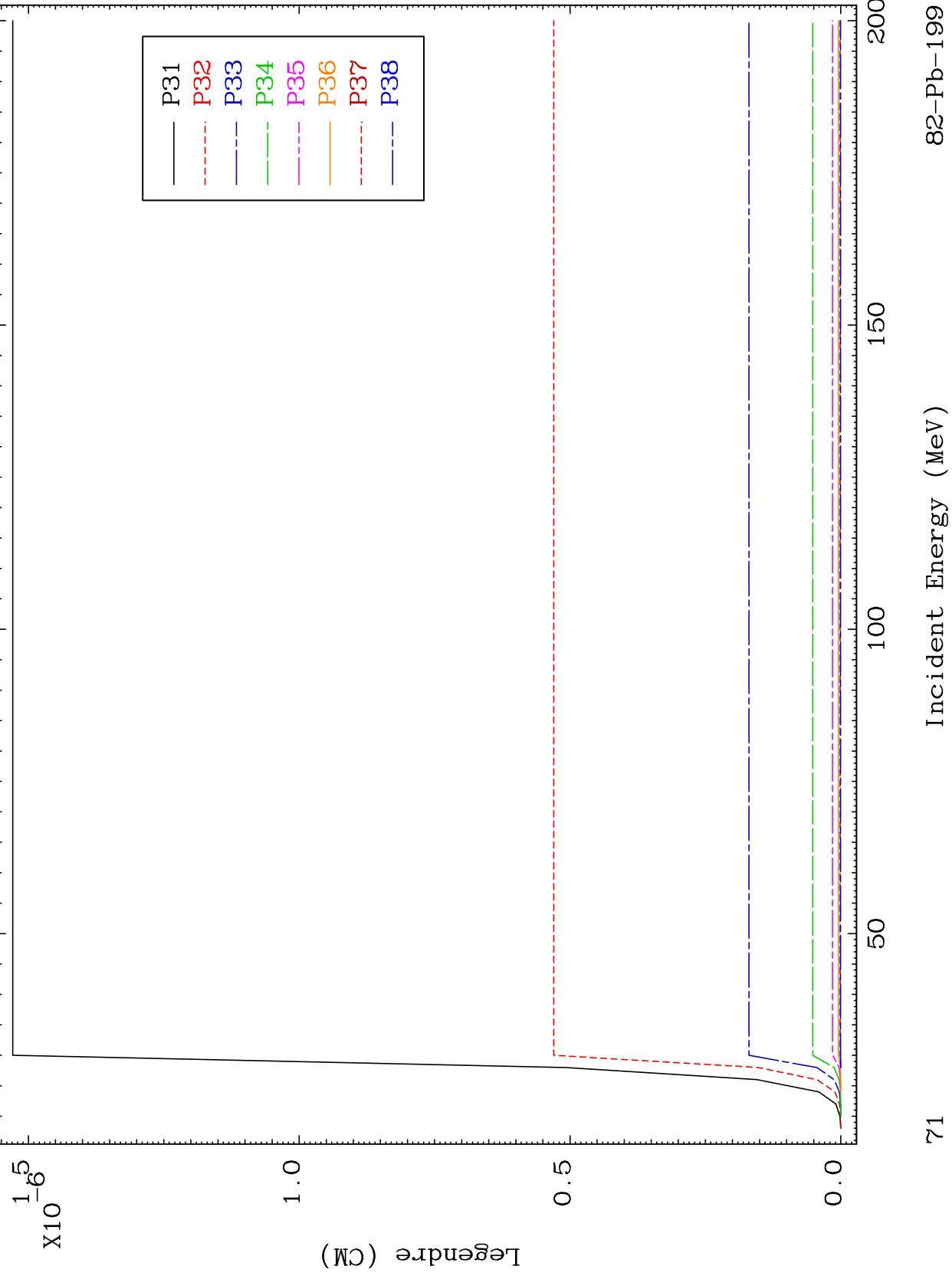
Incident Energy (MeV)

82-Pb-199

MAT 8210

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

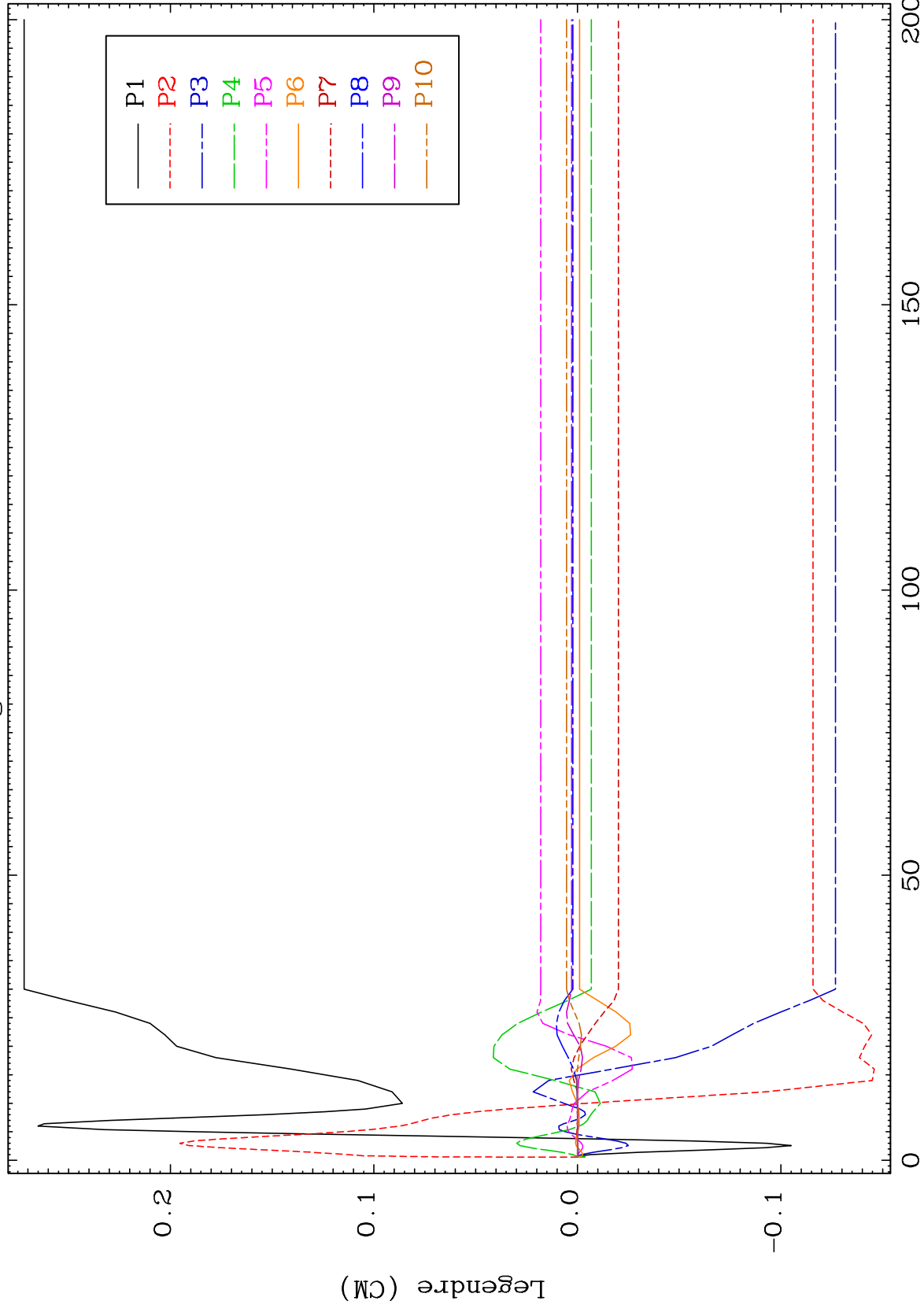
82-Pb-199



MAT 8210

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

82-Pb-199



72

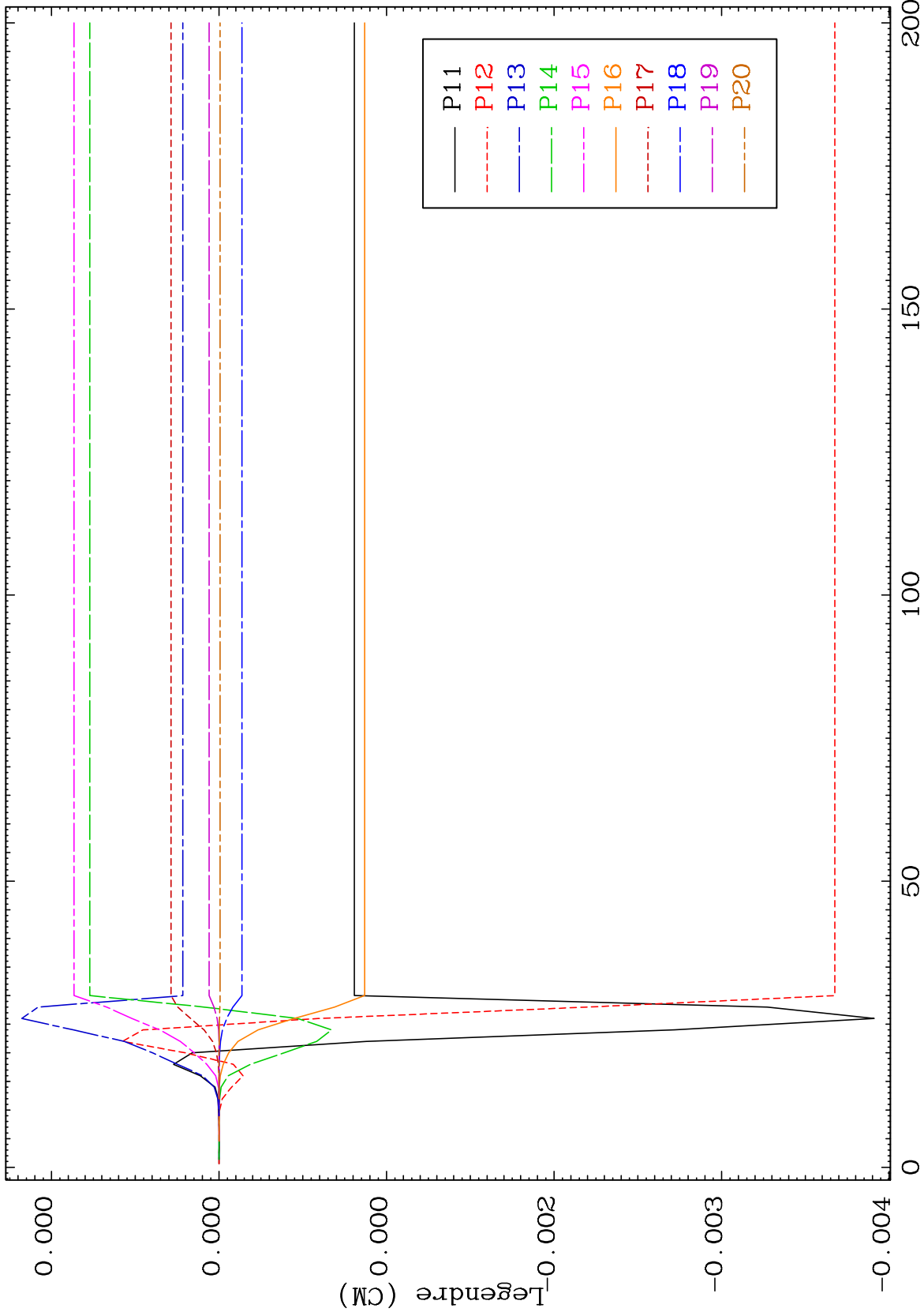
Incident Energy (MeV)

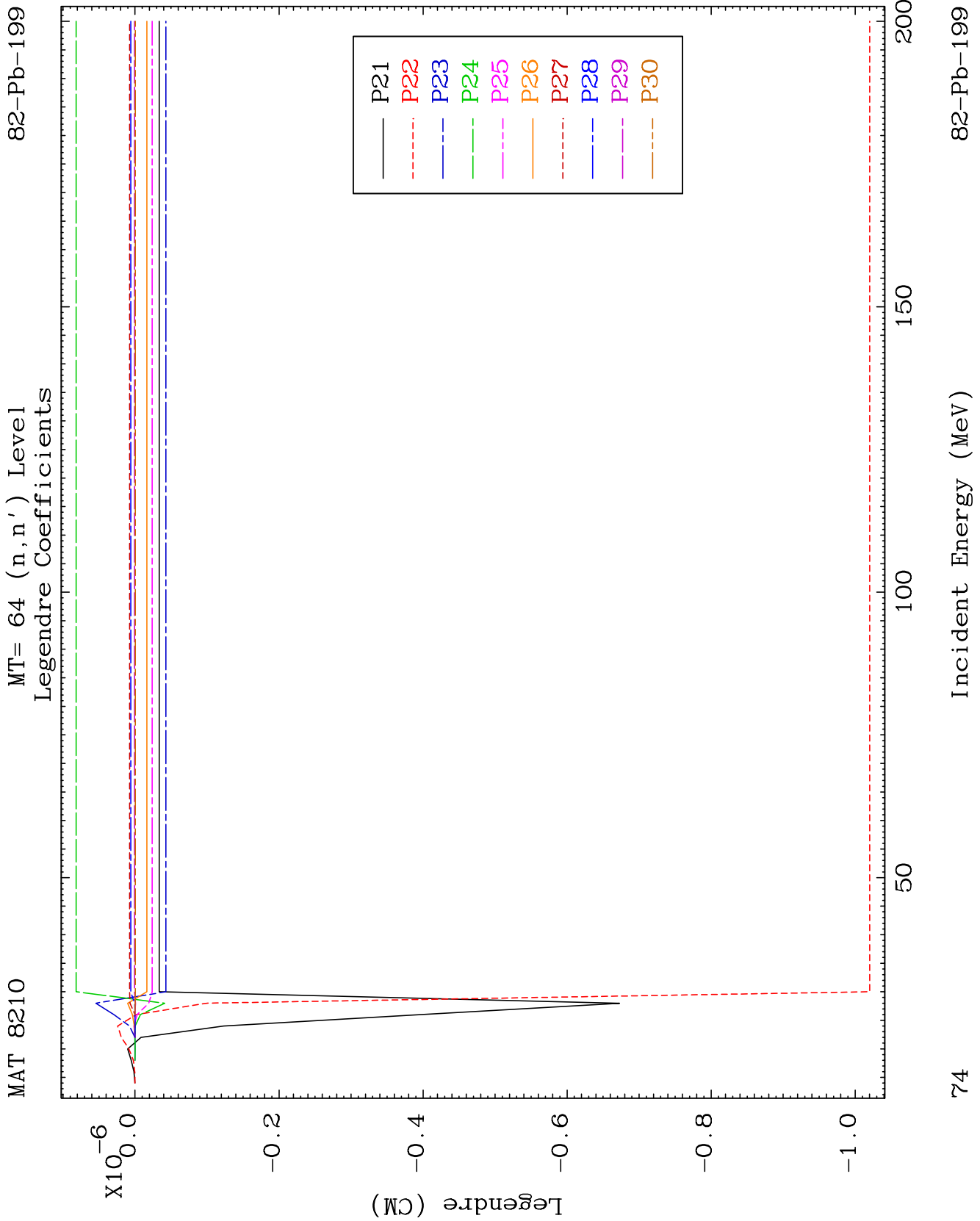
82-Pb-199

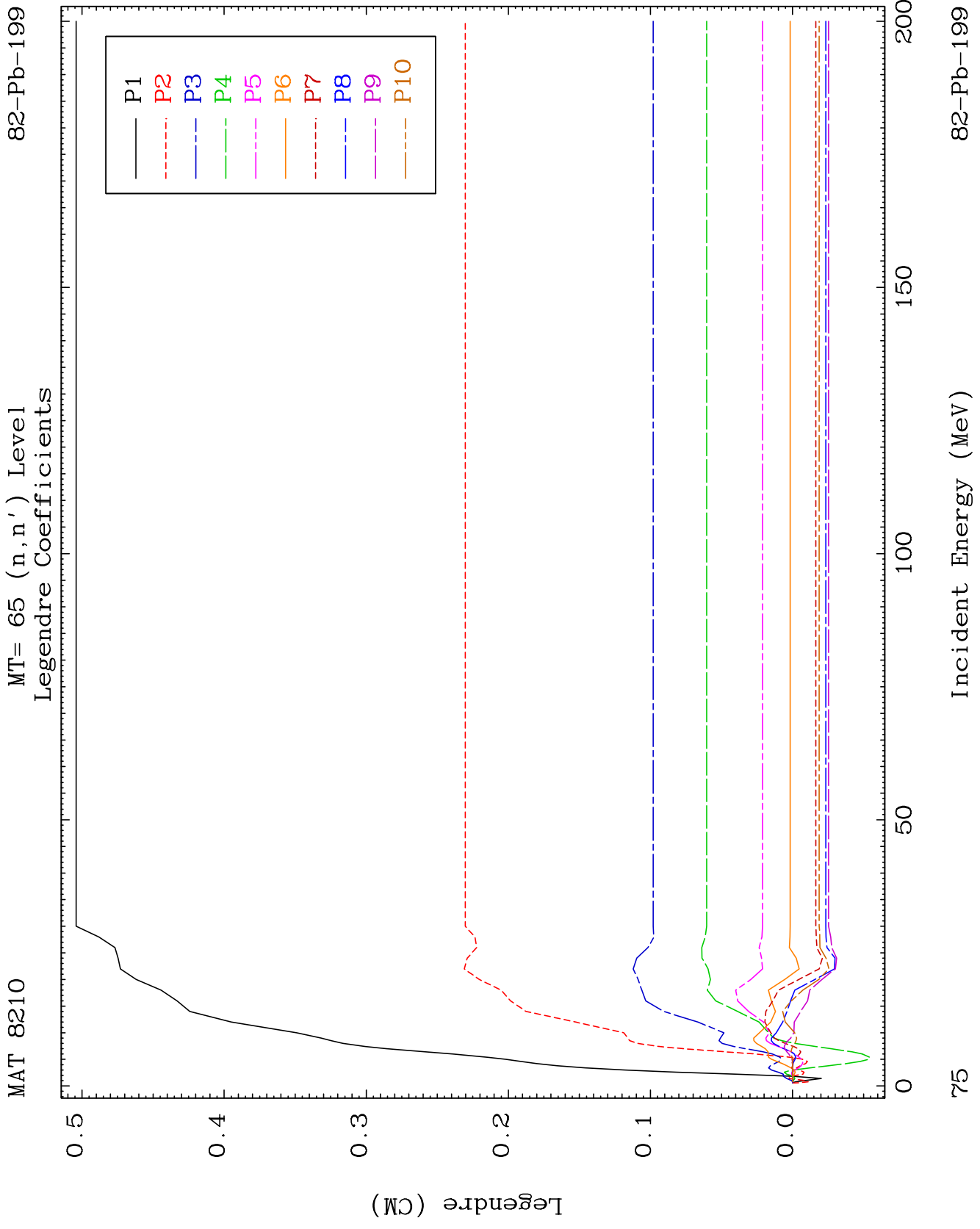
MAT 8210

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

82-Pb-199



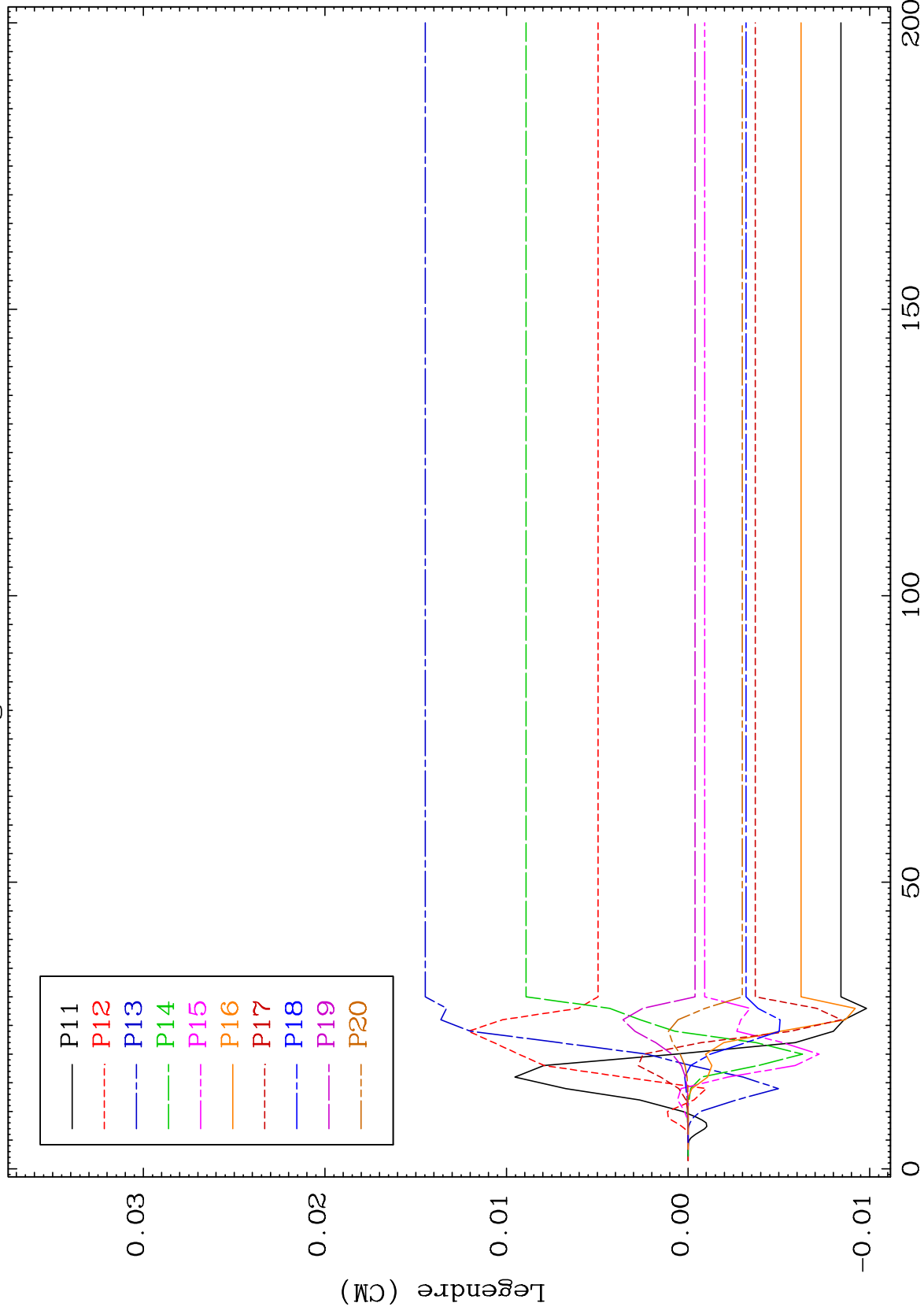




MAT 8210

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

82-Pb-199



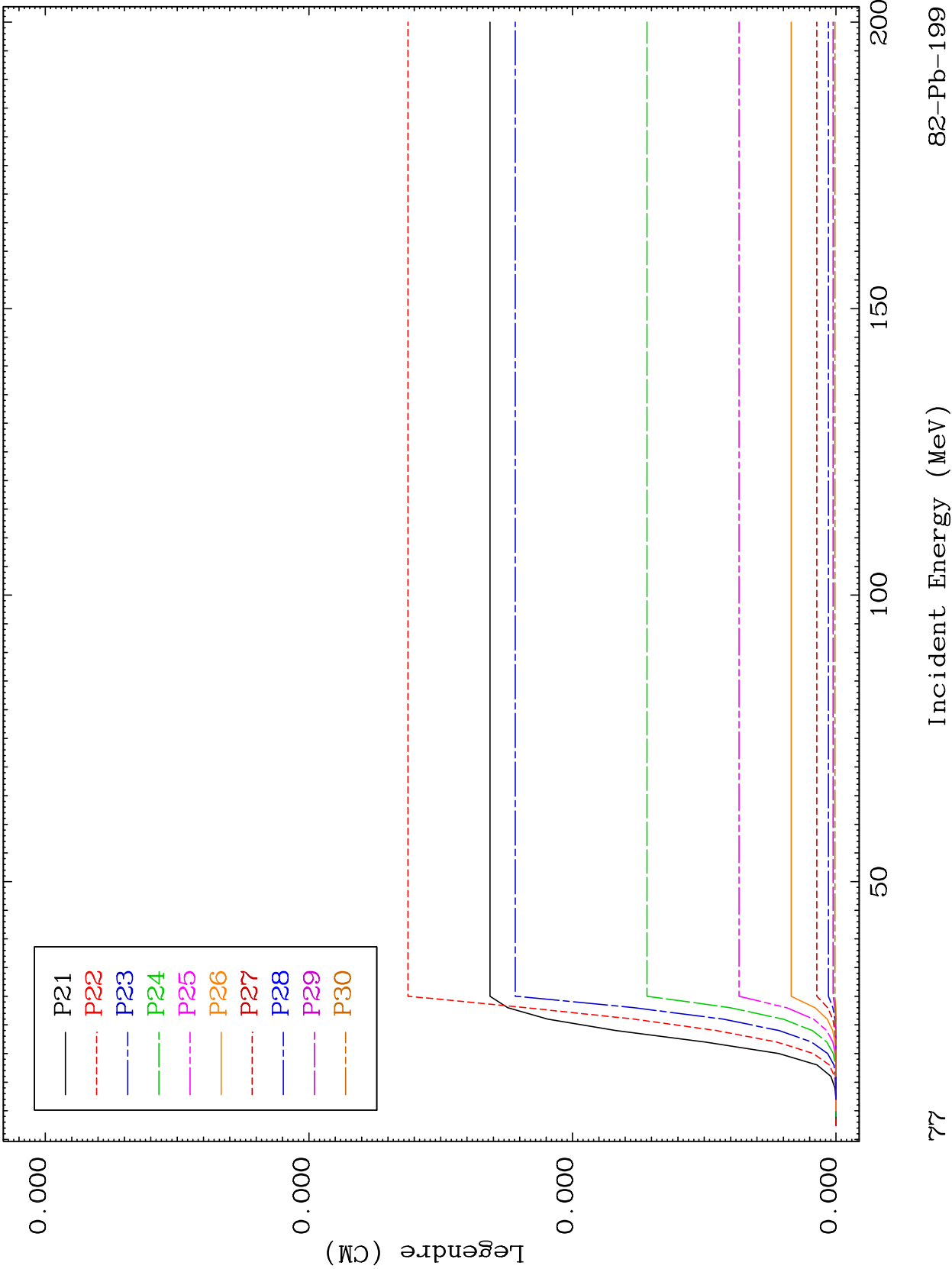
76

82-Pb-199

MAT 8210

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

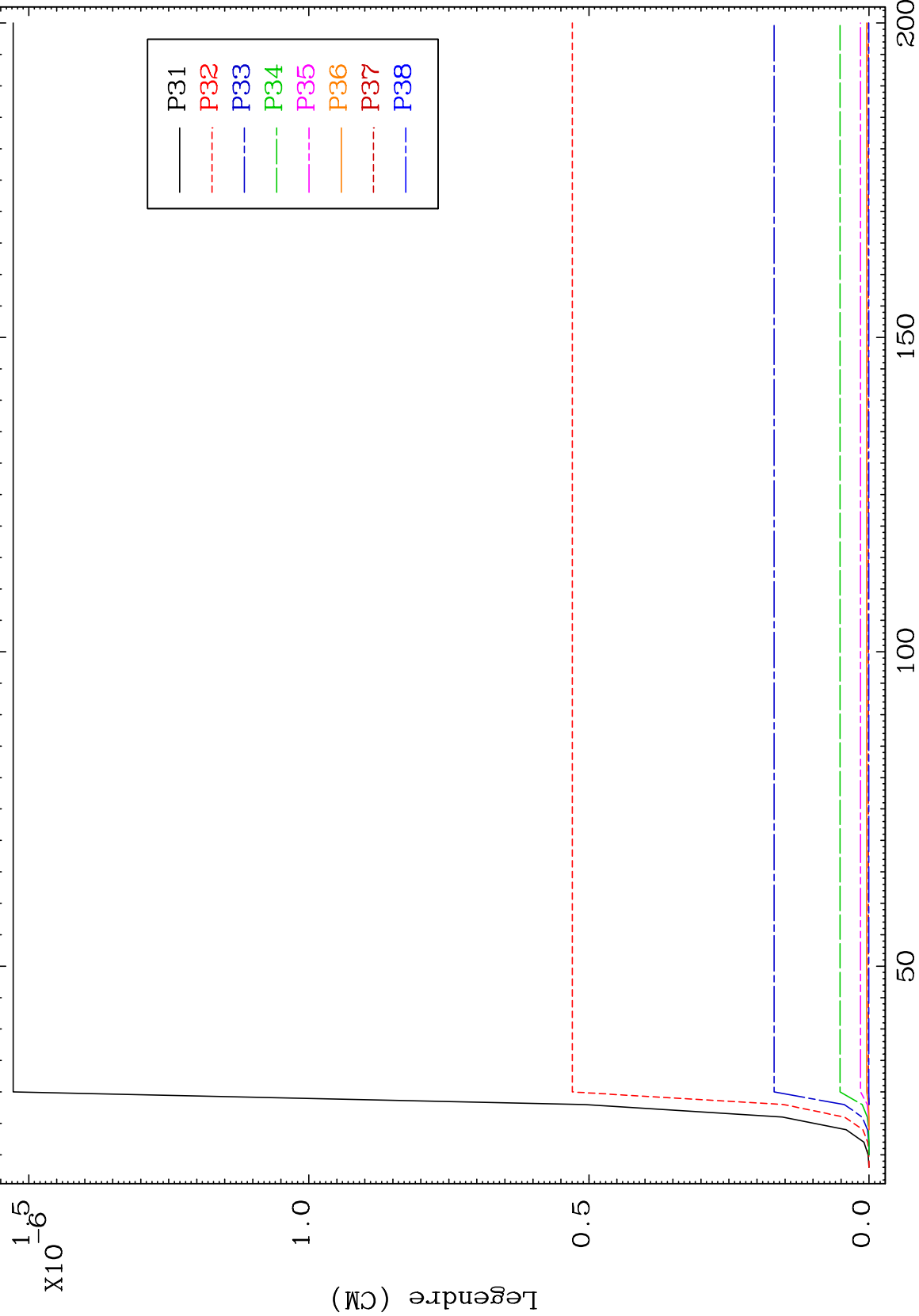
82-Pb-199



MAT 8210

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

82-Pb-199



78

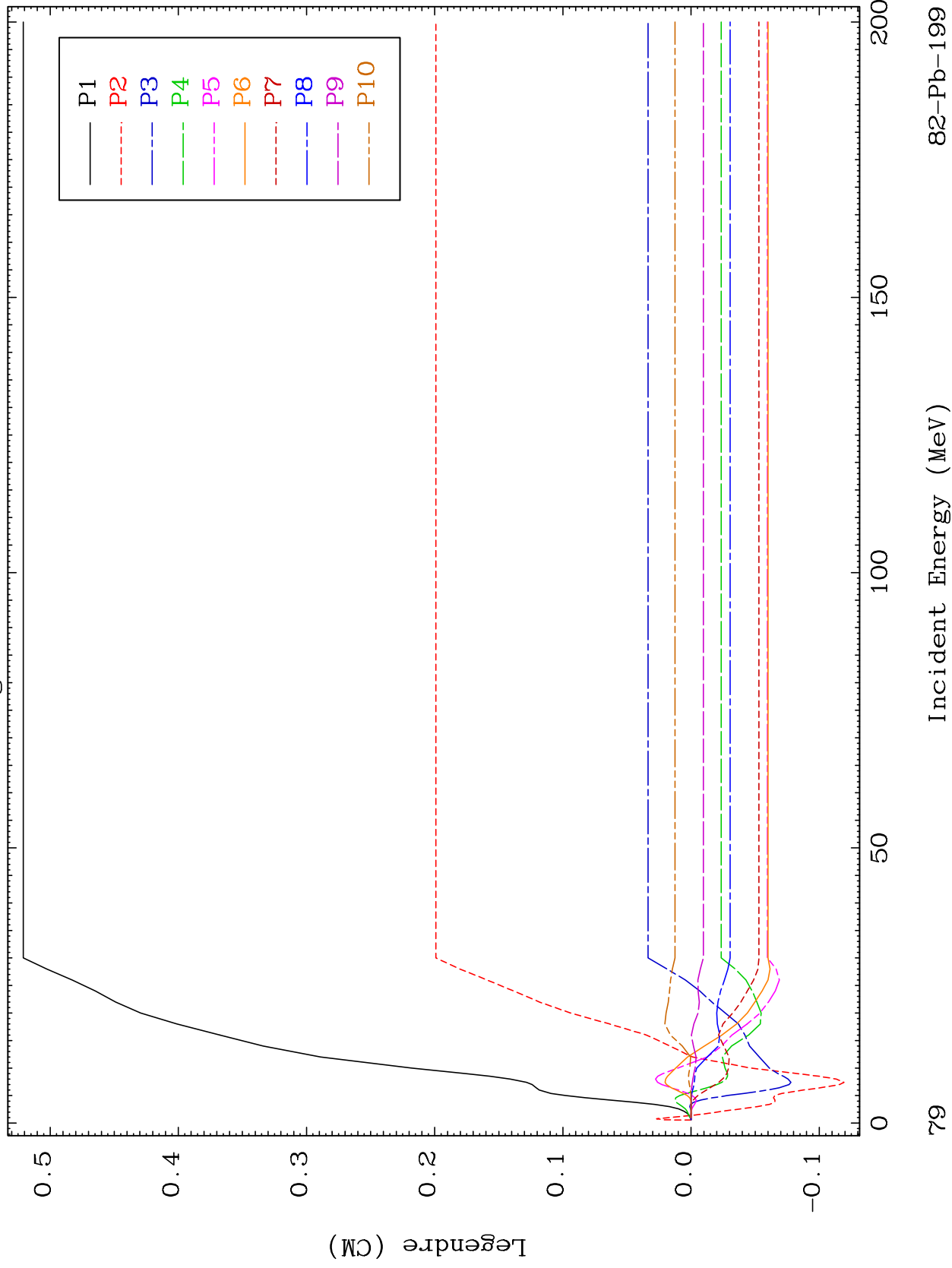
Incident Energy (MeV)

82-Pb-199

MAT 8210

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

82-Pb-199



82-Pb-199

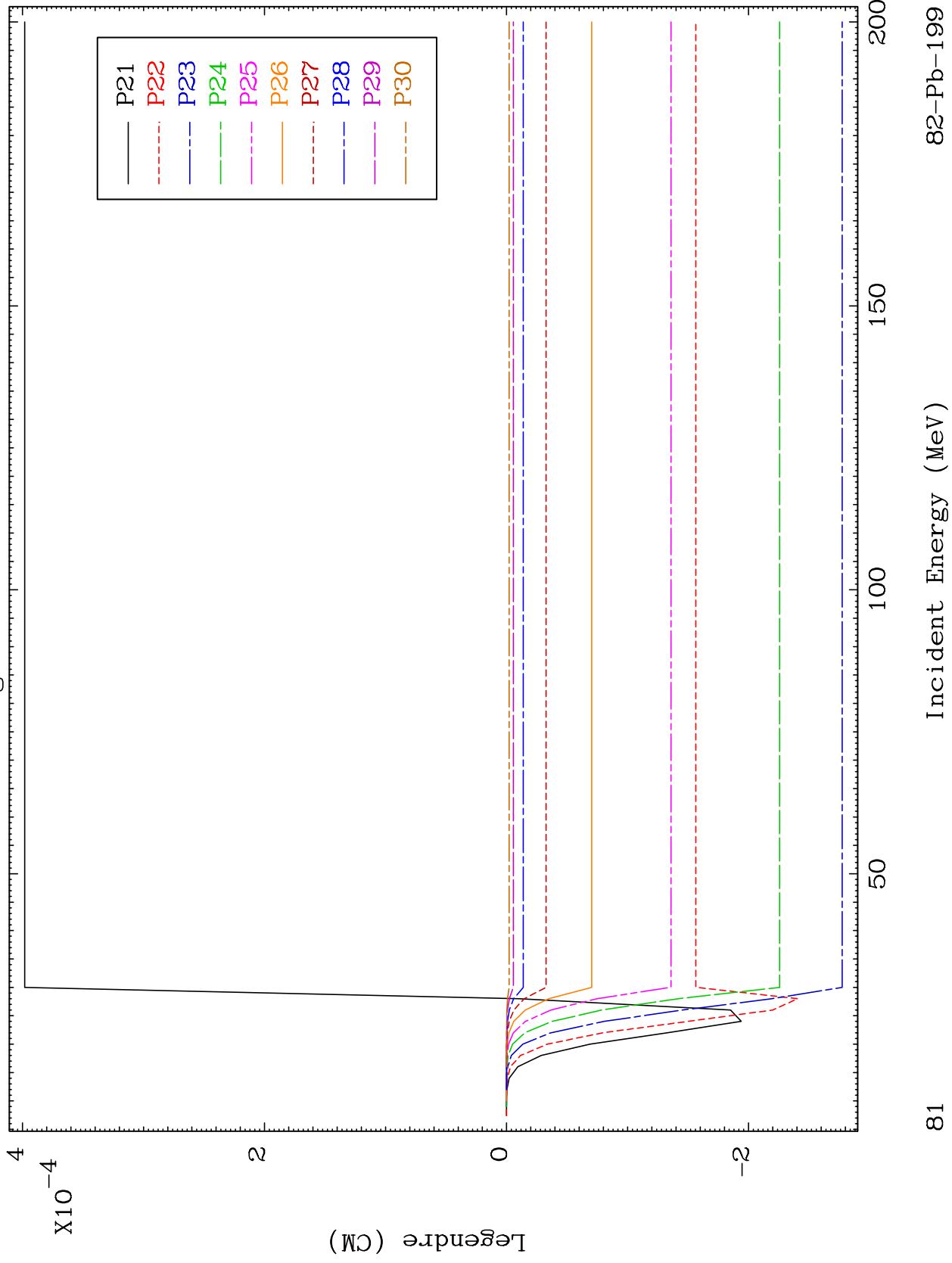
Incident Energy (MeV)

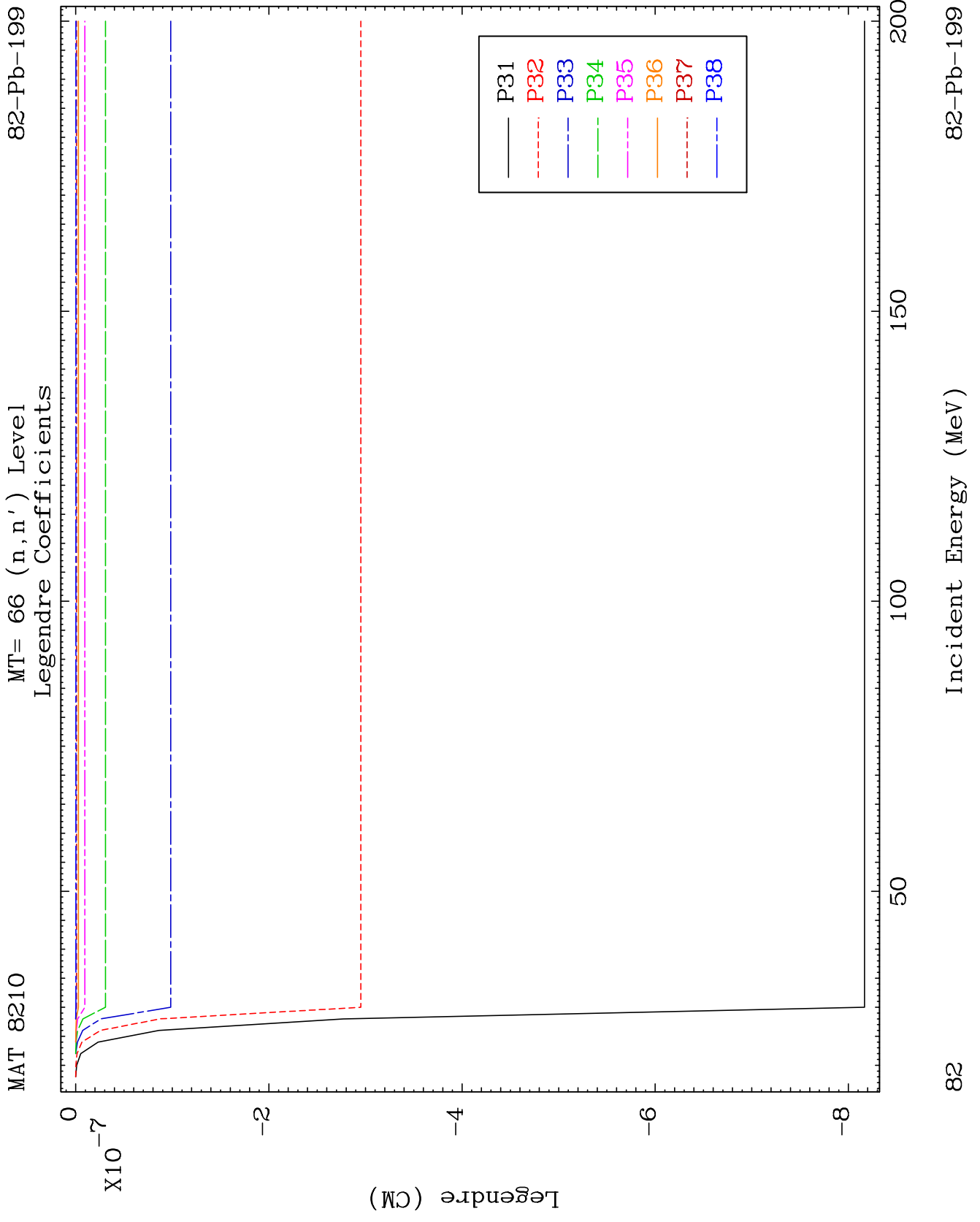
79

MAT 8210

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

82-Pb-199

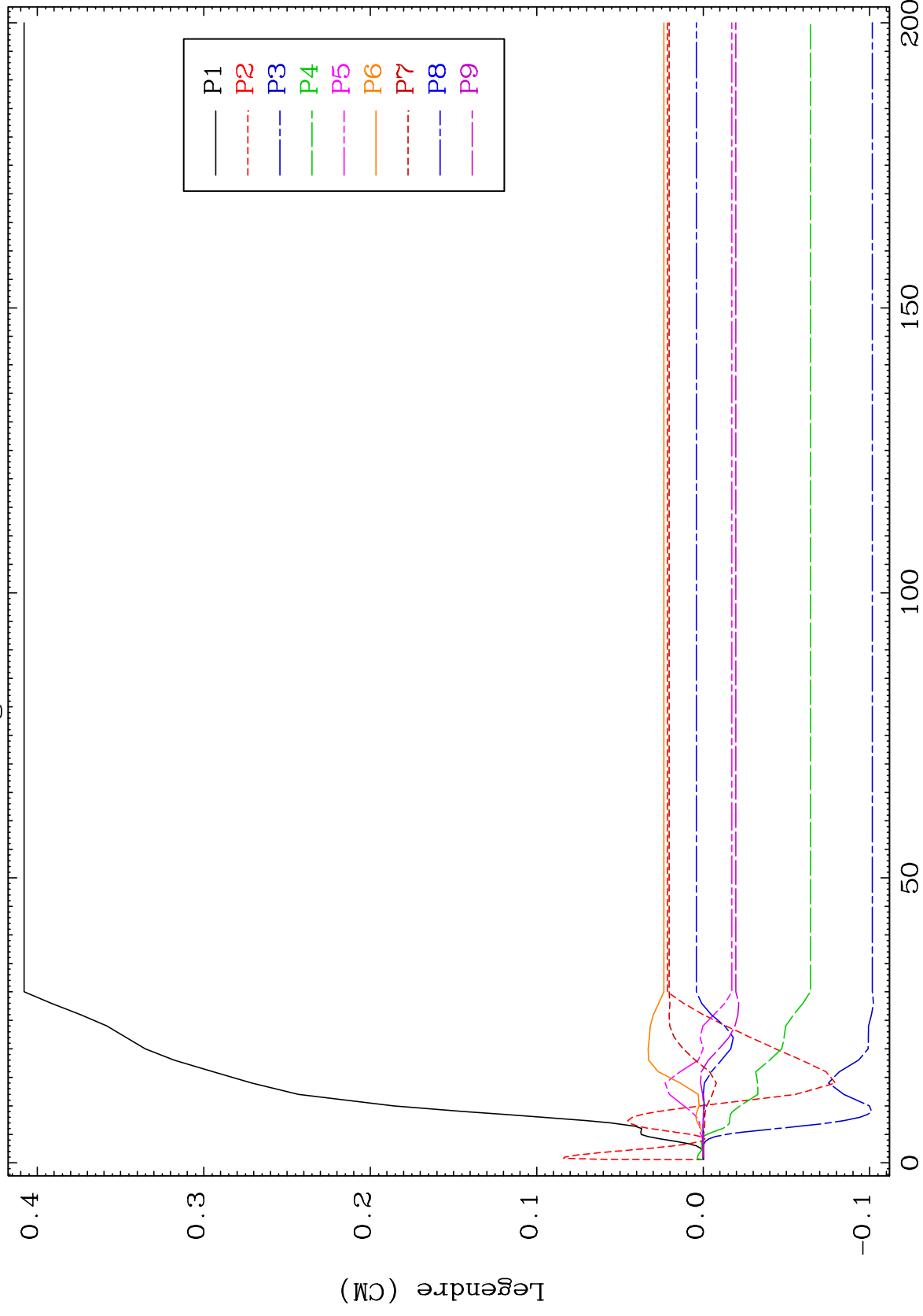




MAT 8210

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

82-Pb-199



83

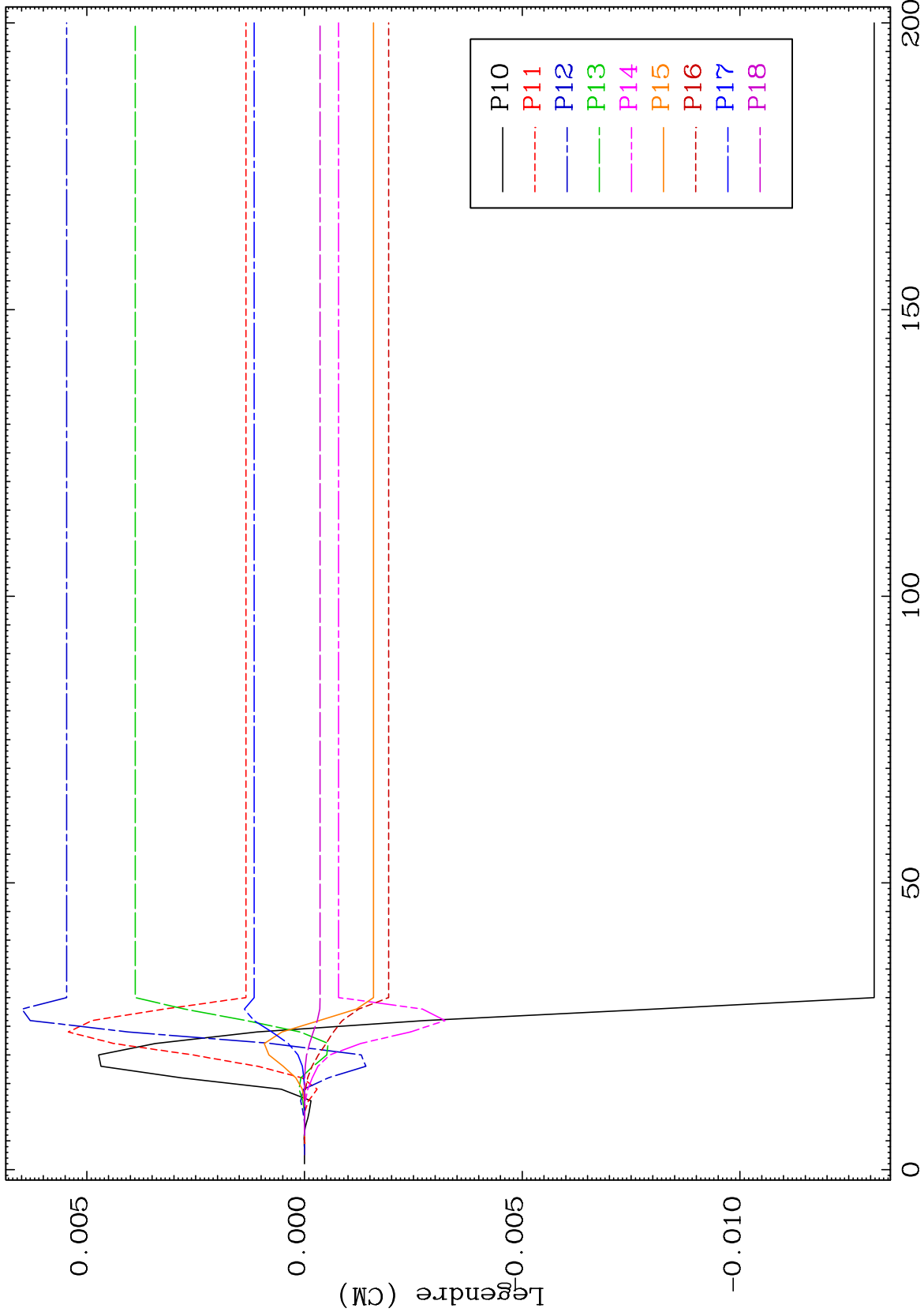
Incident Energy (MeV)

82-Pb-199

MAT 8210

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

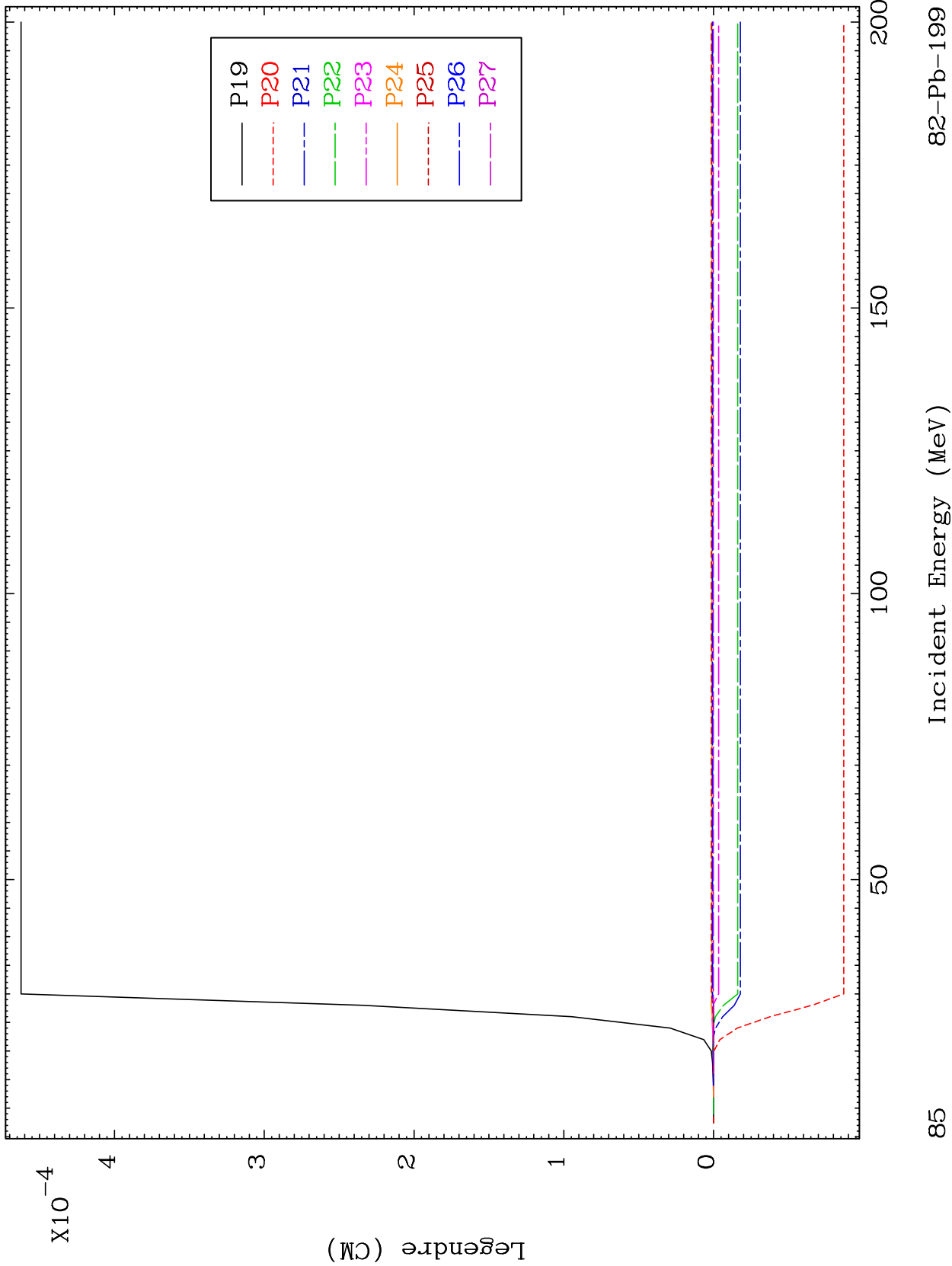
82-Pb-199



MAT 8210

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

82-Pb-199



85

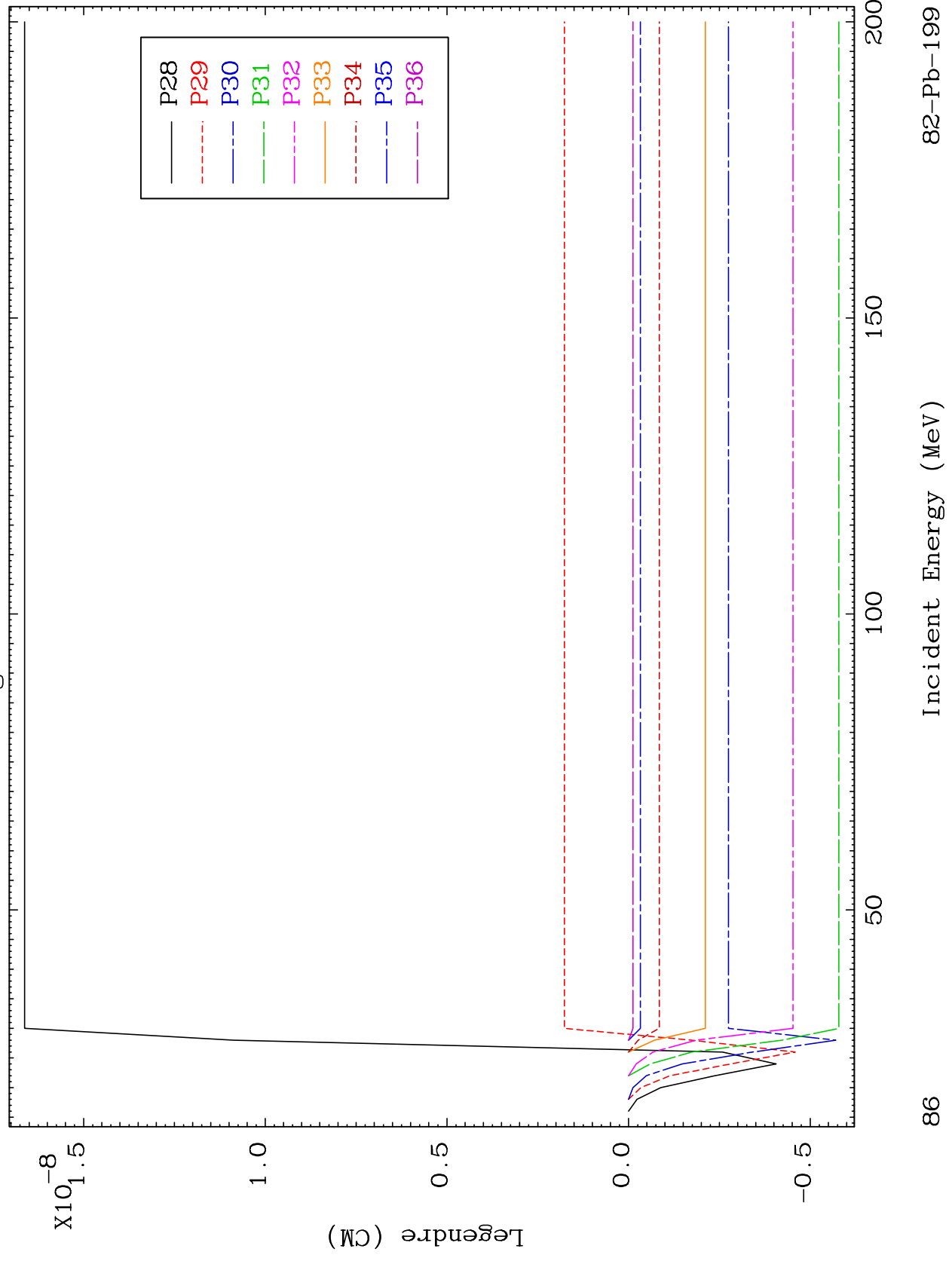
Incident Energy (MeV)

82-Pb-199

MAT 8210

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

82-Pb-199



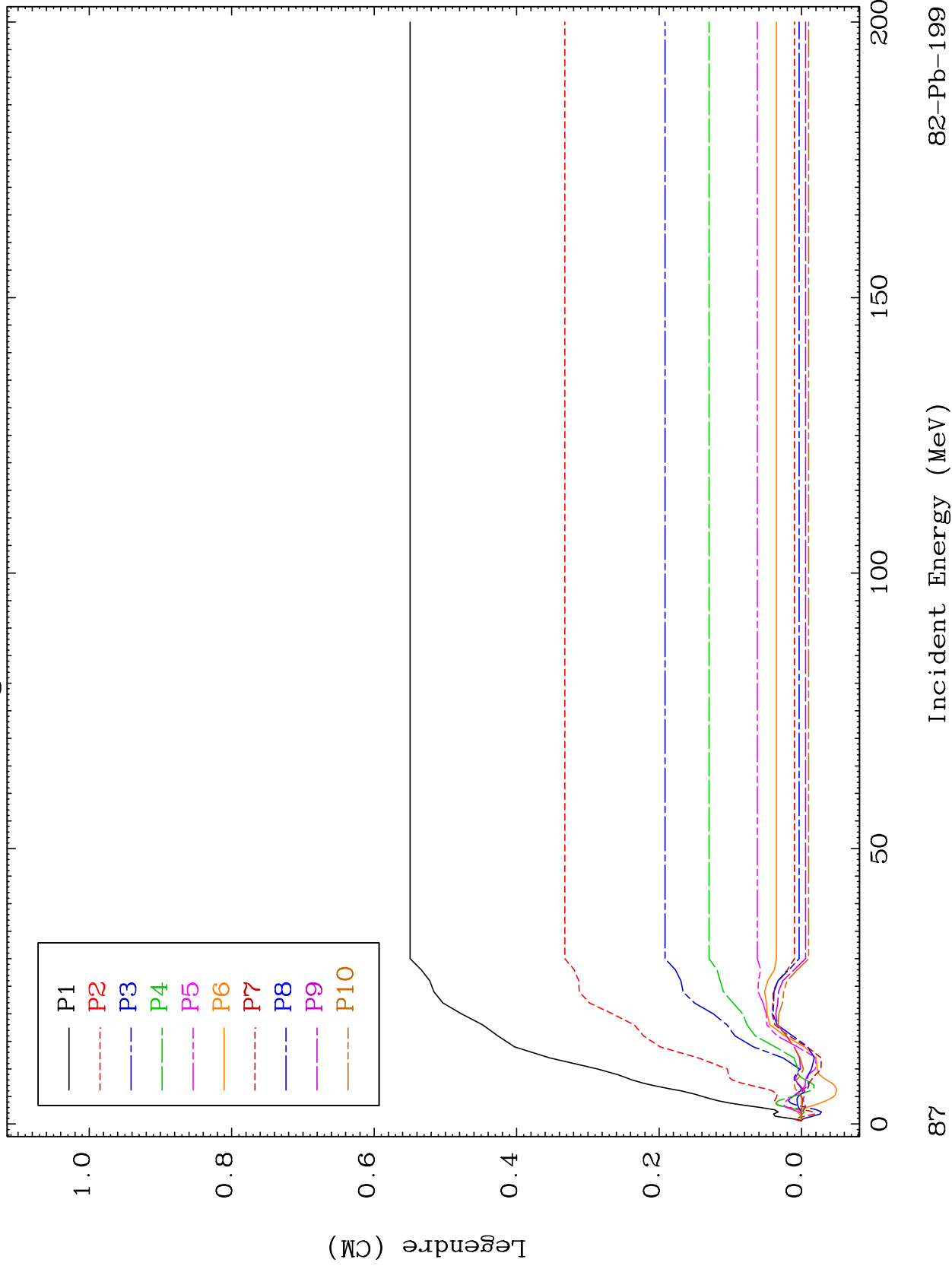
86

82-Pb-199

MAT 8210

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

82-Pb-199



87

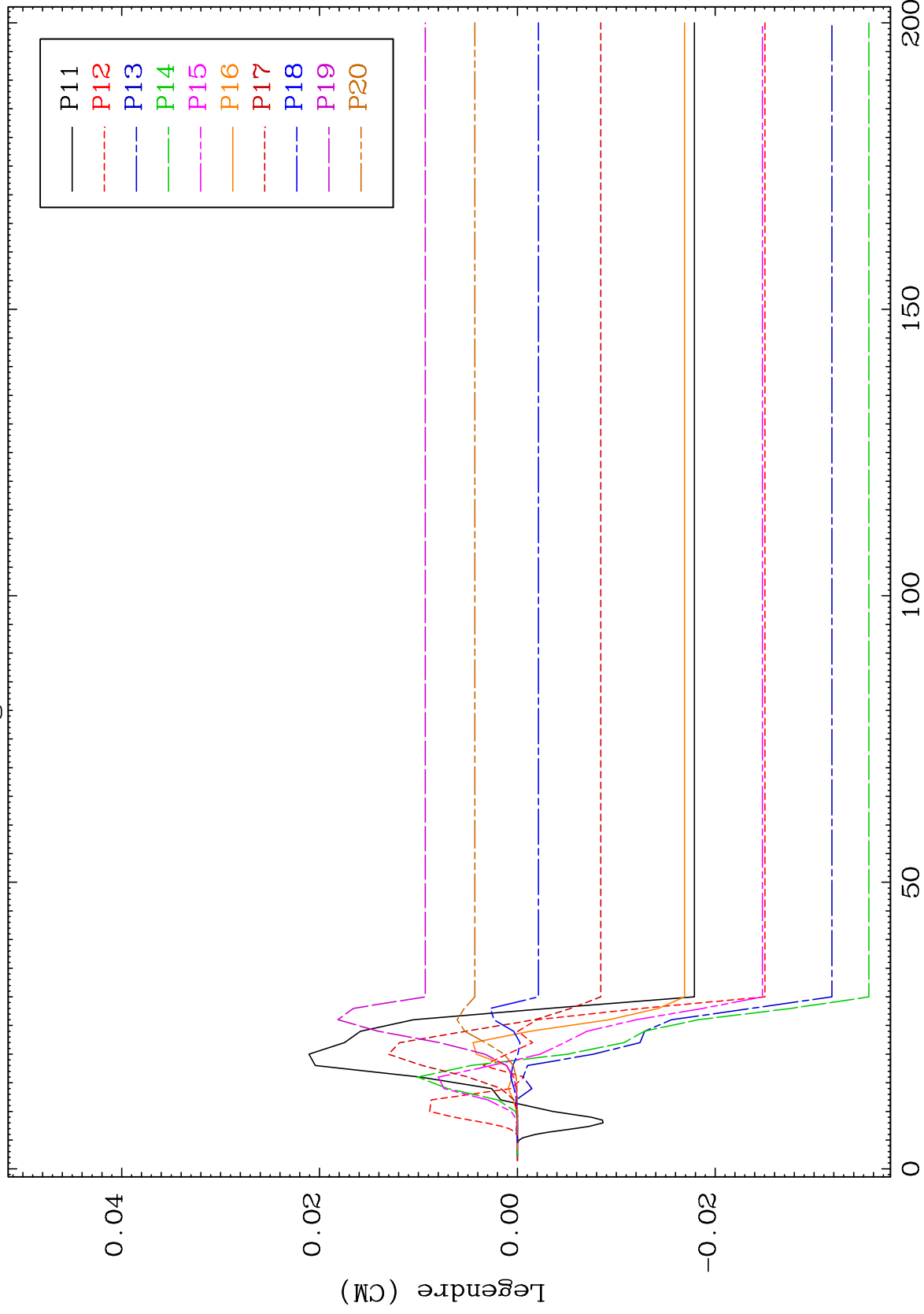
Incident Energy (MeV)

82-Pb-199

MAT 8210

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

82-Pb-199



88

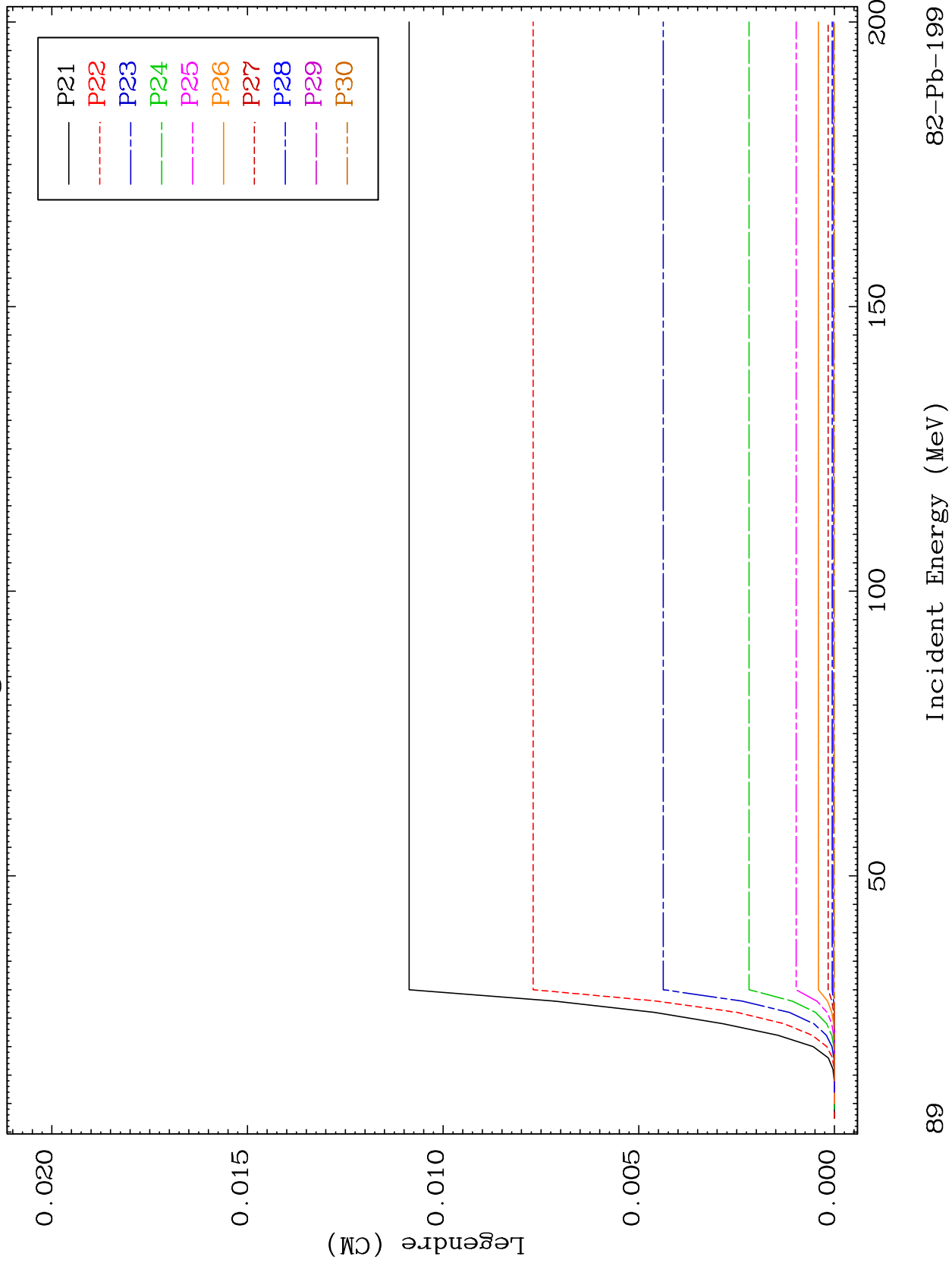
Incident Energy (MeV)

82-Pb-199

MAT 8210

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

82-Pb-199



89

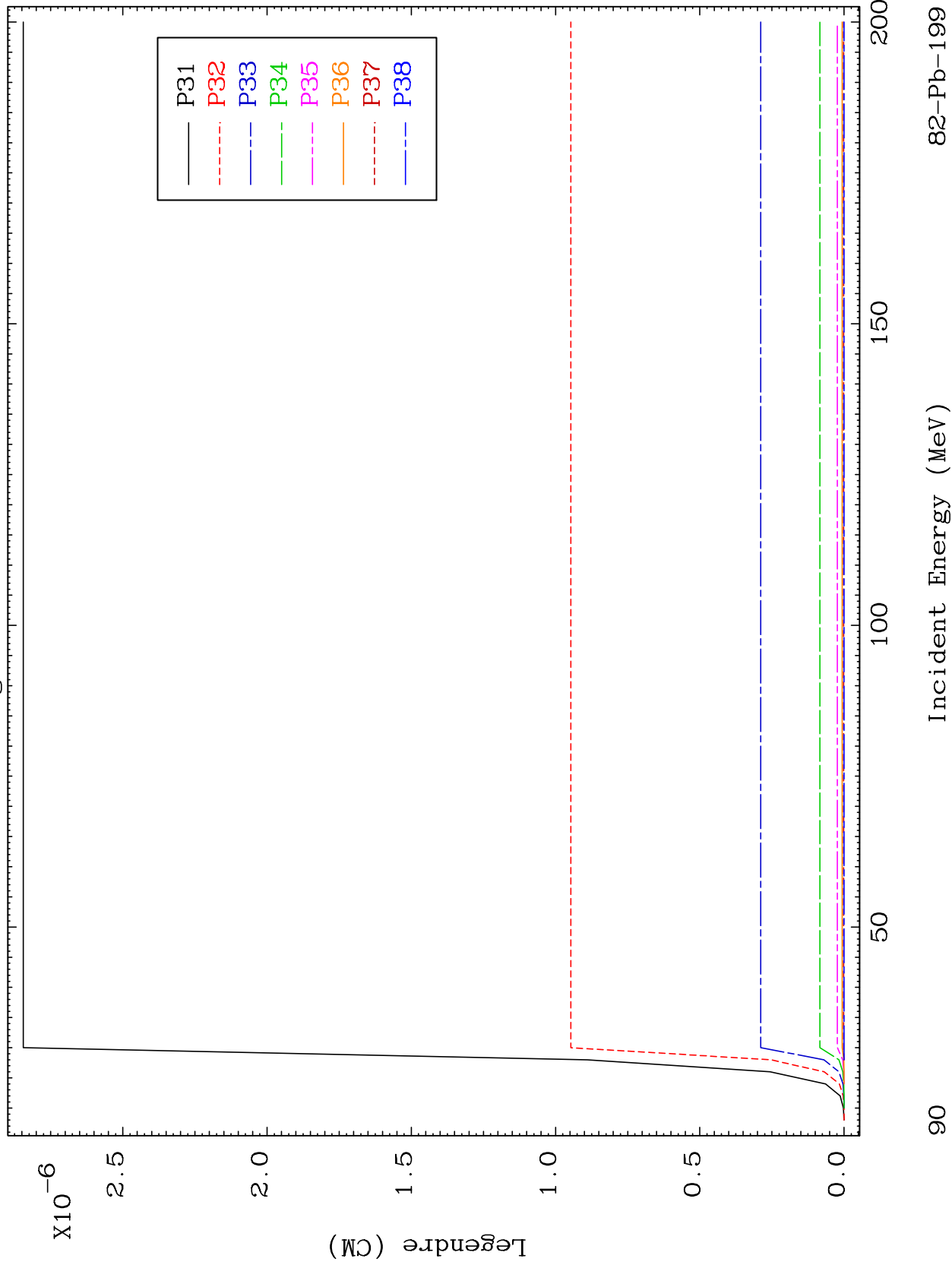
Incident Energy (MeV)

82-Pb-199

MAT 8210

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

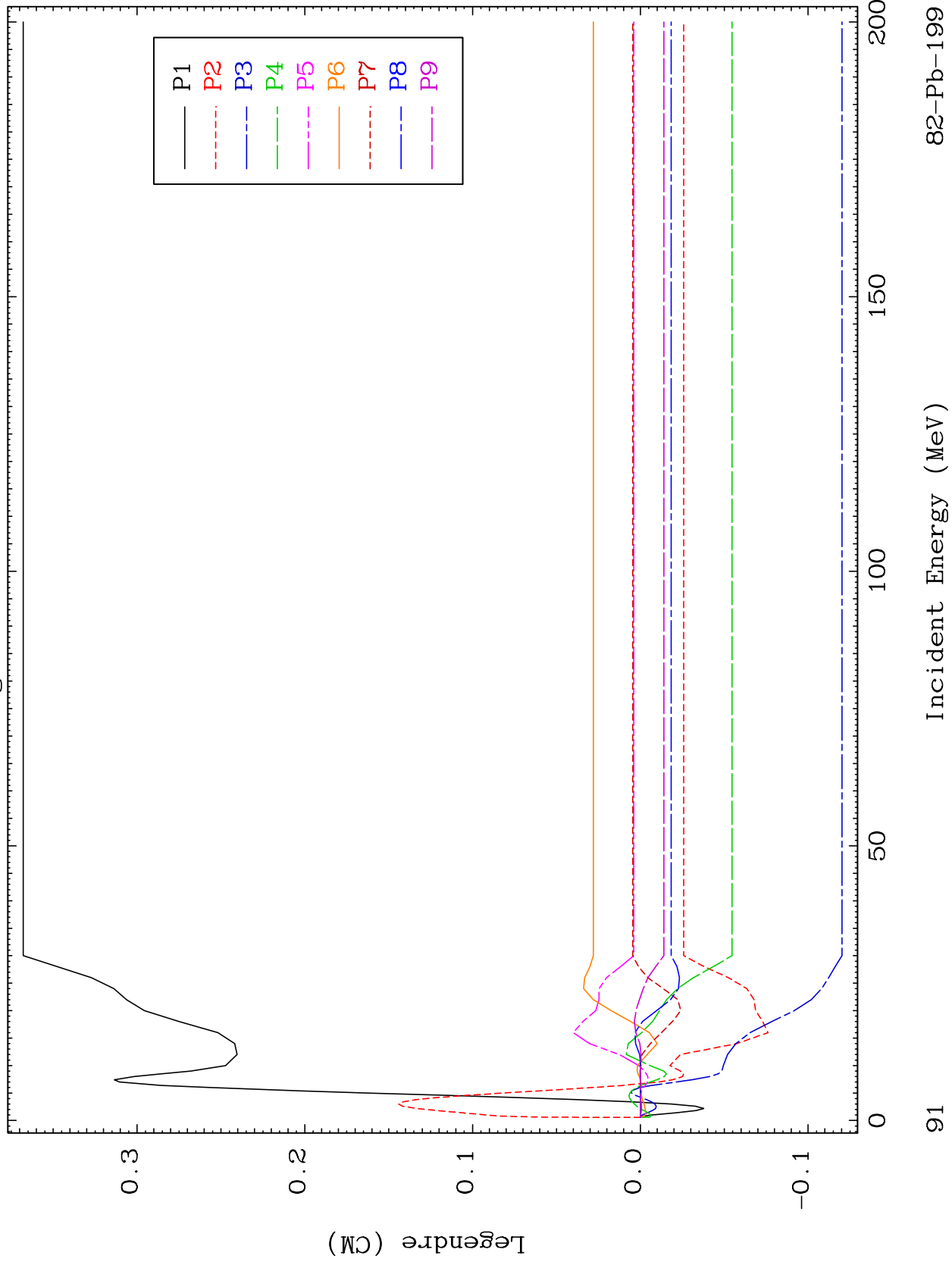
82-Pb-199



MAT 8210

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

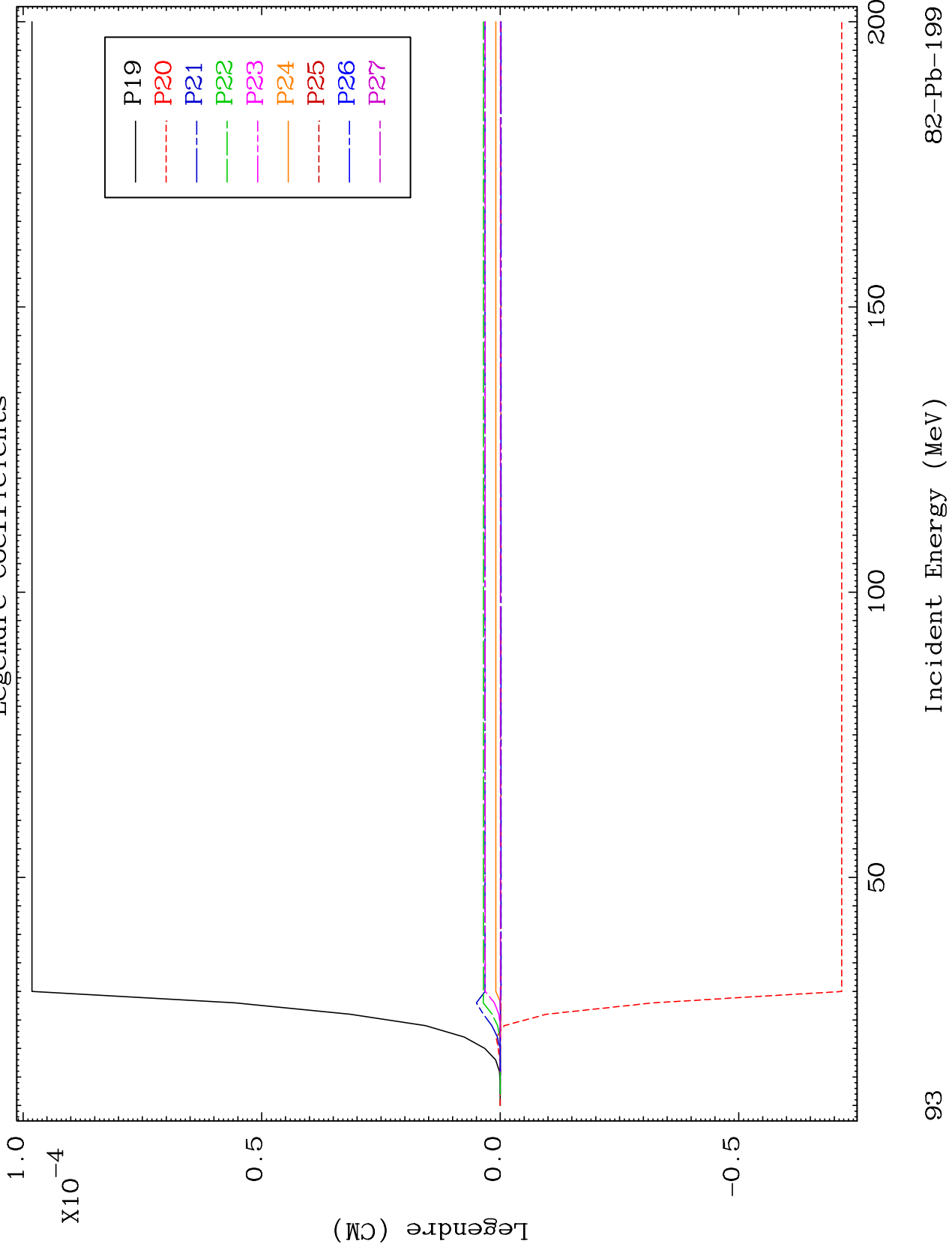
82-Pb-199



MAT 8210

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

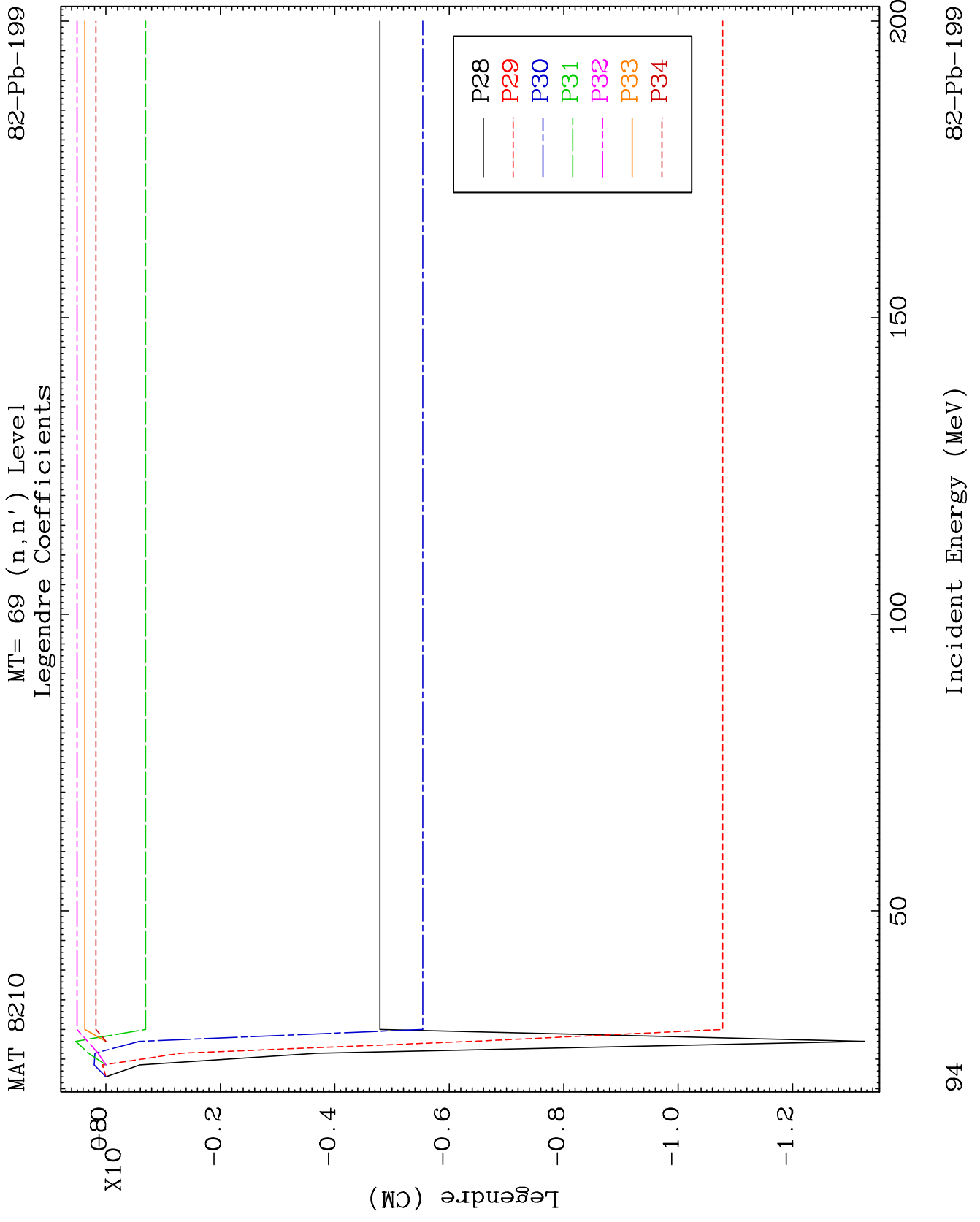
82-Pb-199



93

Incident Energy (MeV)

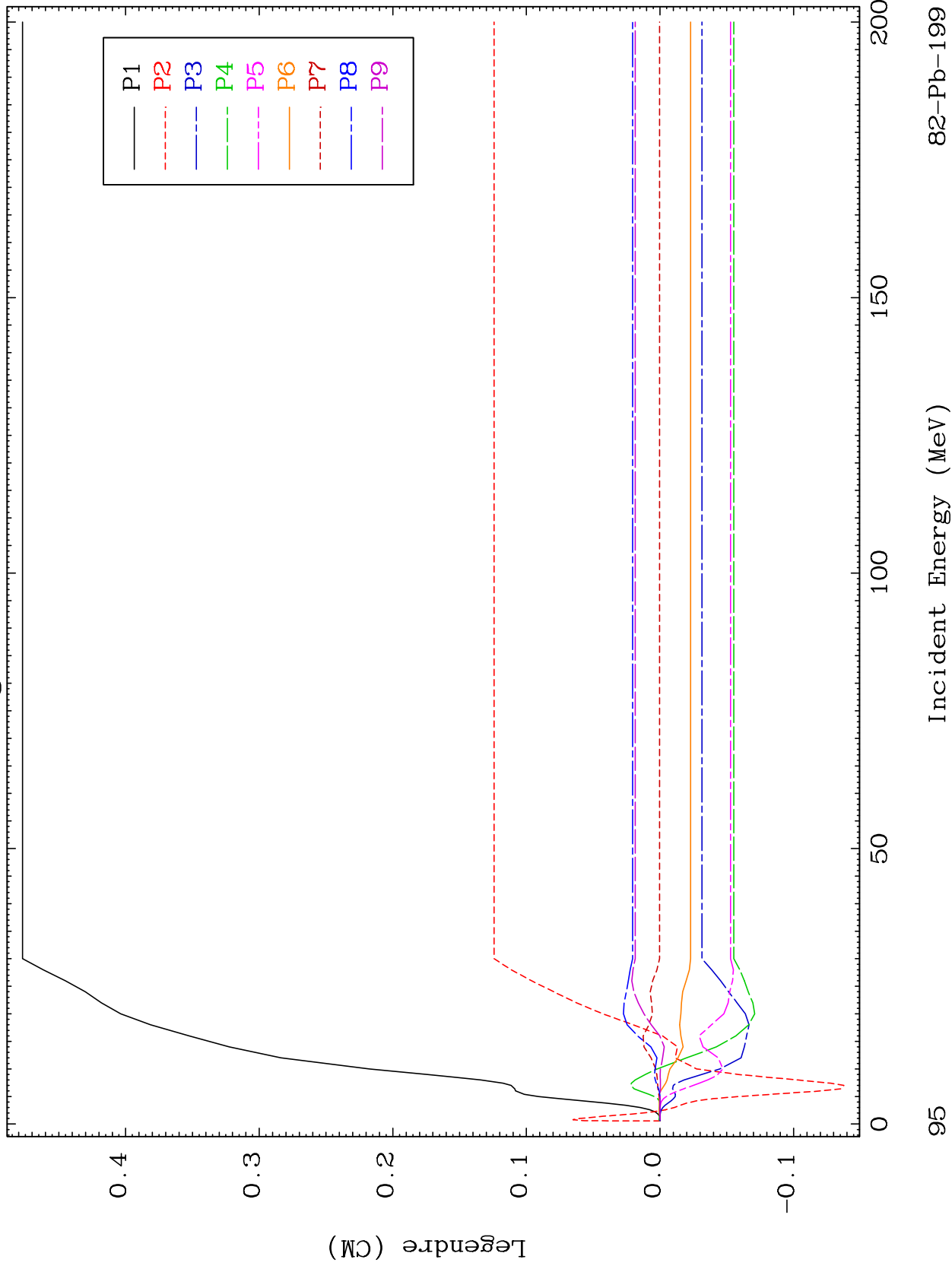
82-Pb-199



MAT 8210

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

82-Pb-199



82-Pb-199

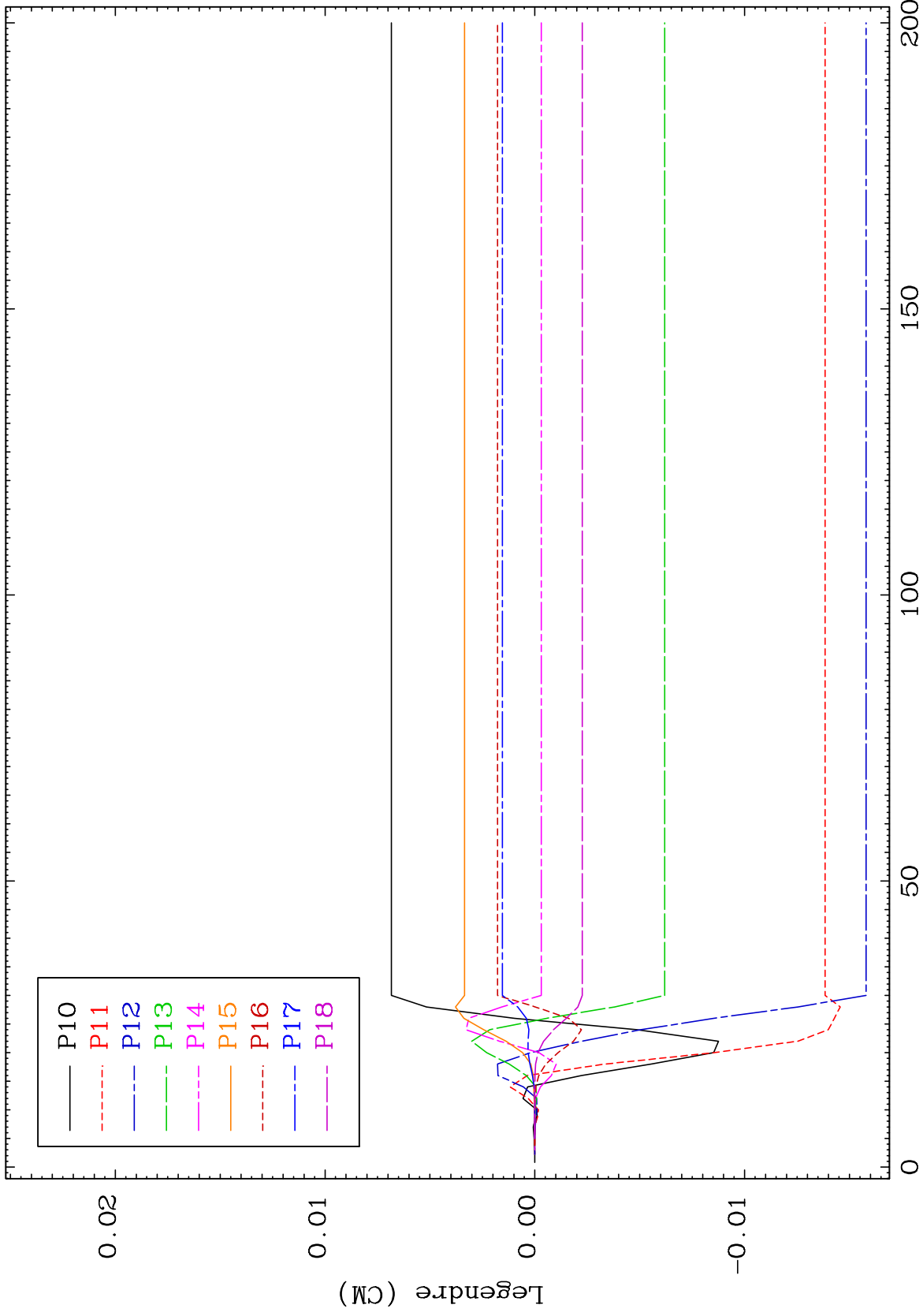
Incident Energy (MeV)

95

MAT 8210

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

82-Pb-199



96

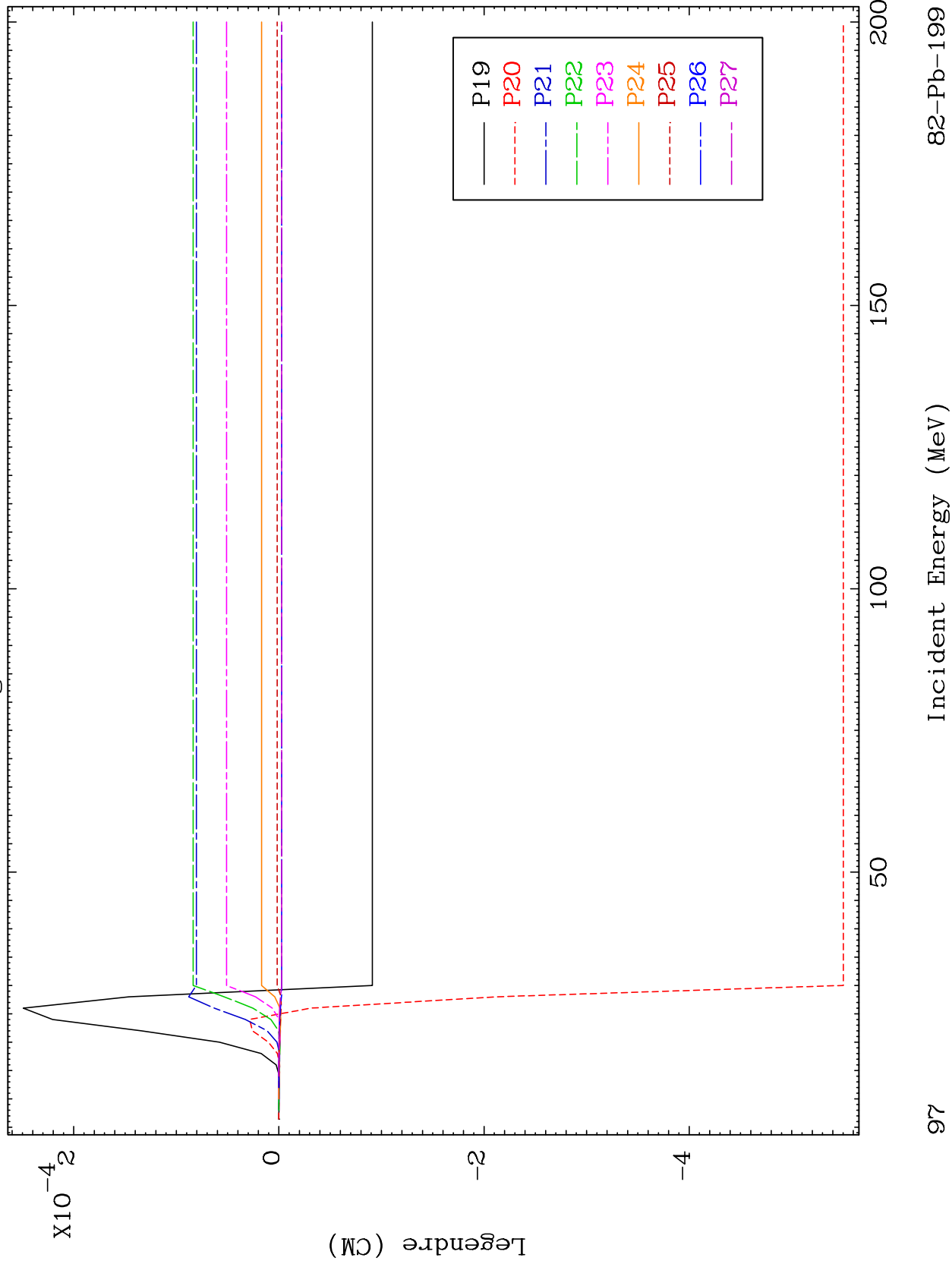
Incident Energy (MeV)

82-Pb-199

MAT 8210

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

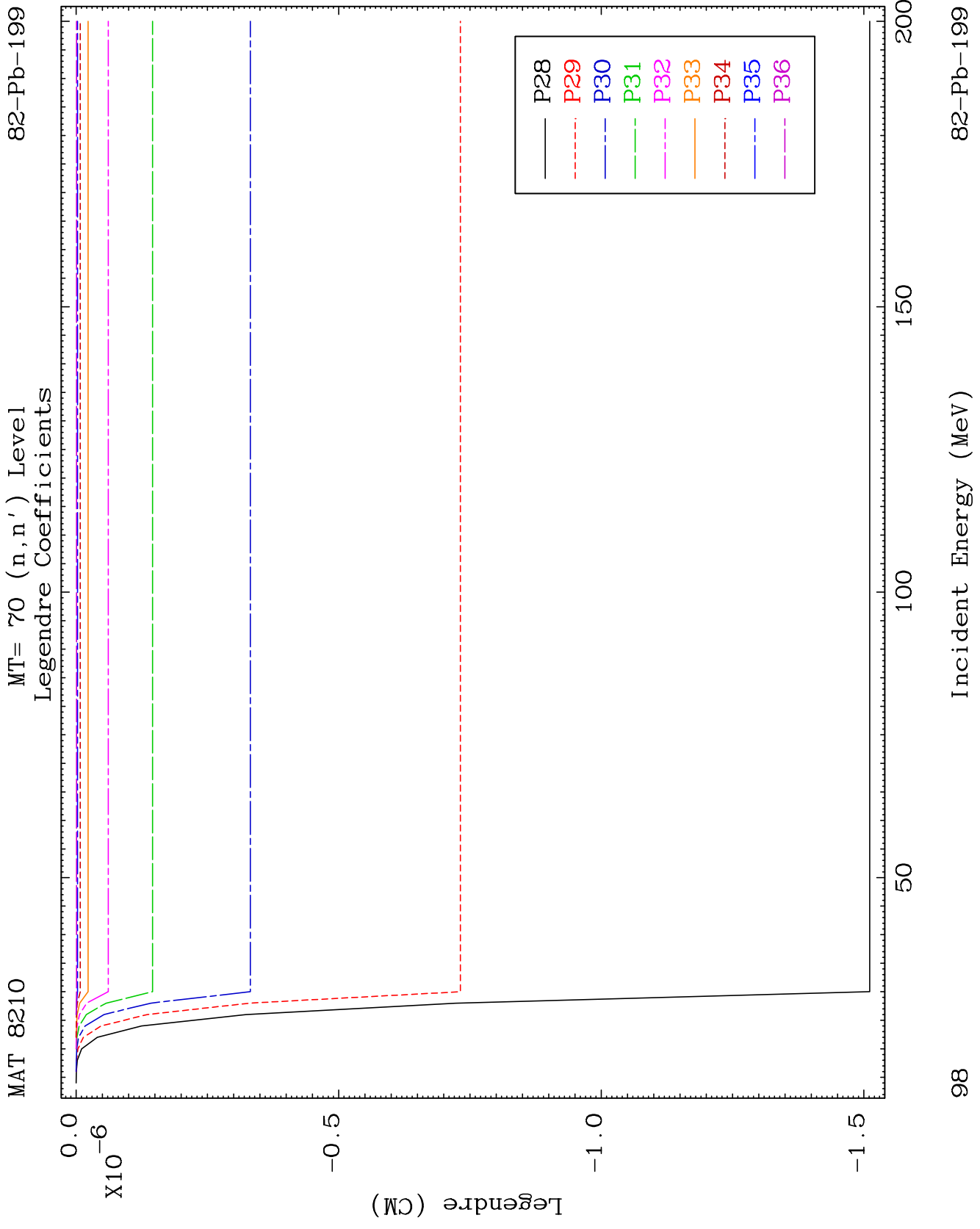
82-Pb-199

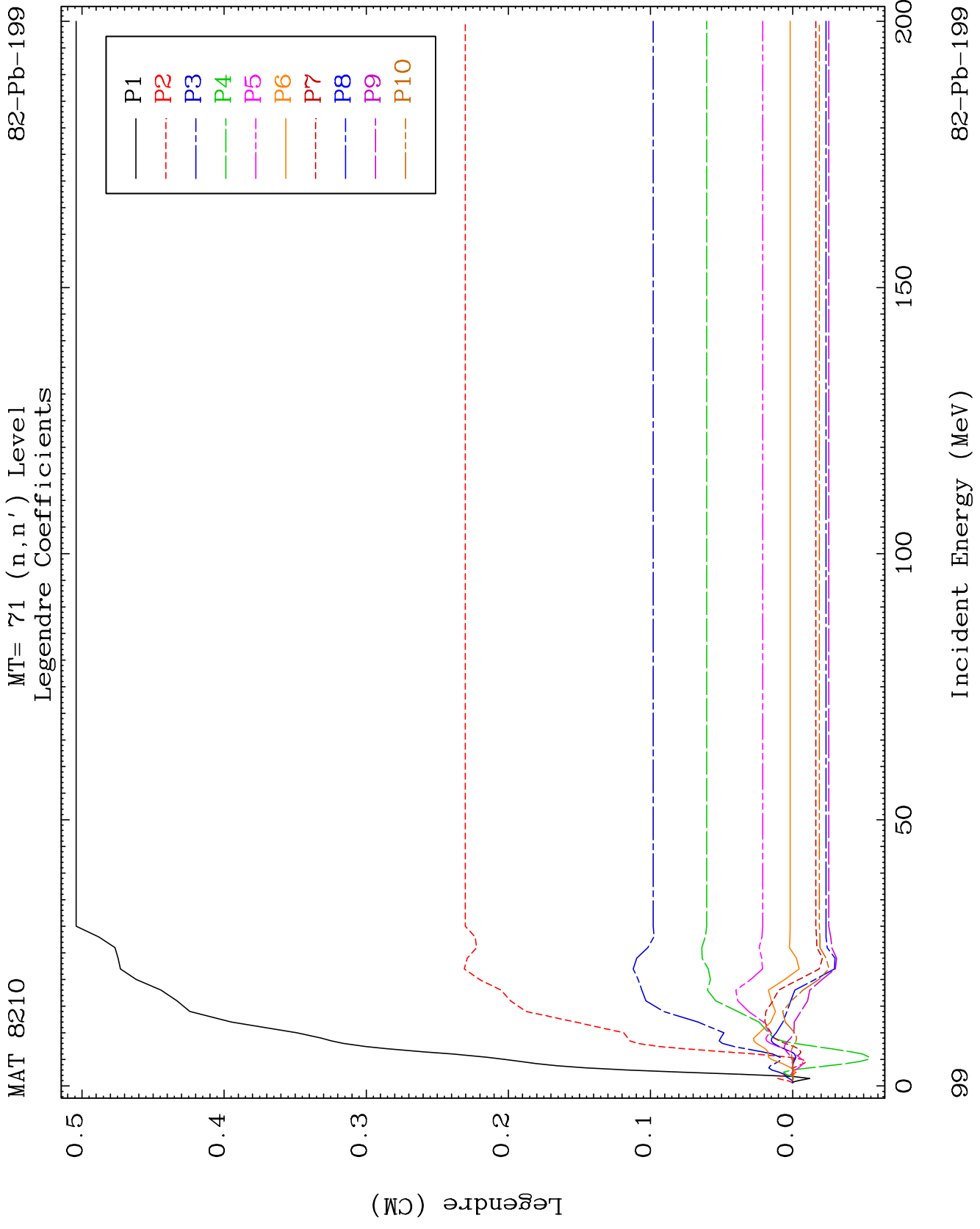


97

Incident Energy (MeV)

82-Pb-199

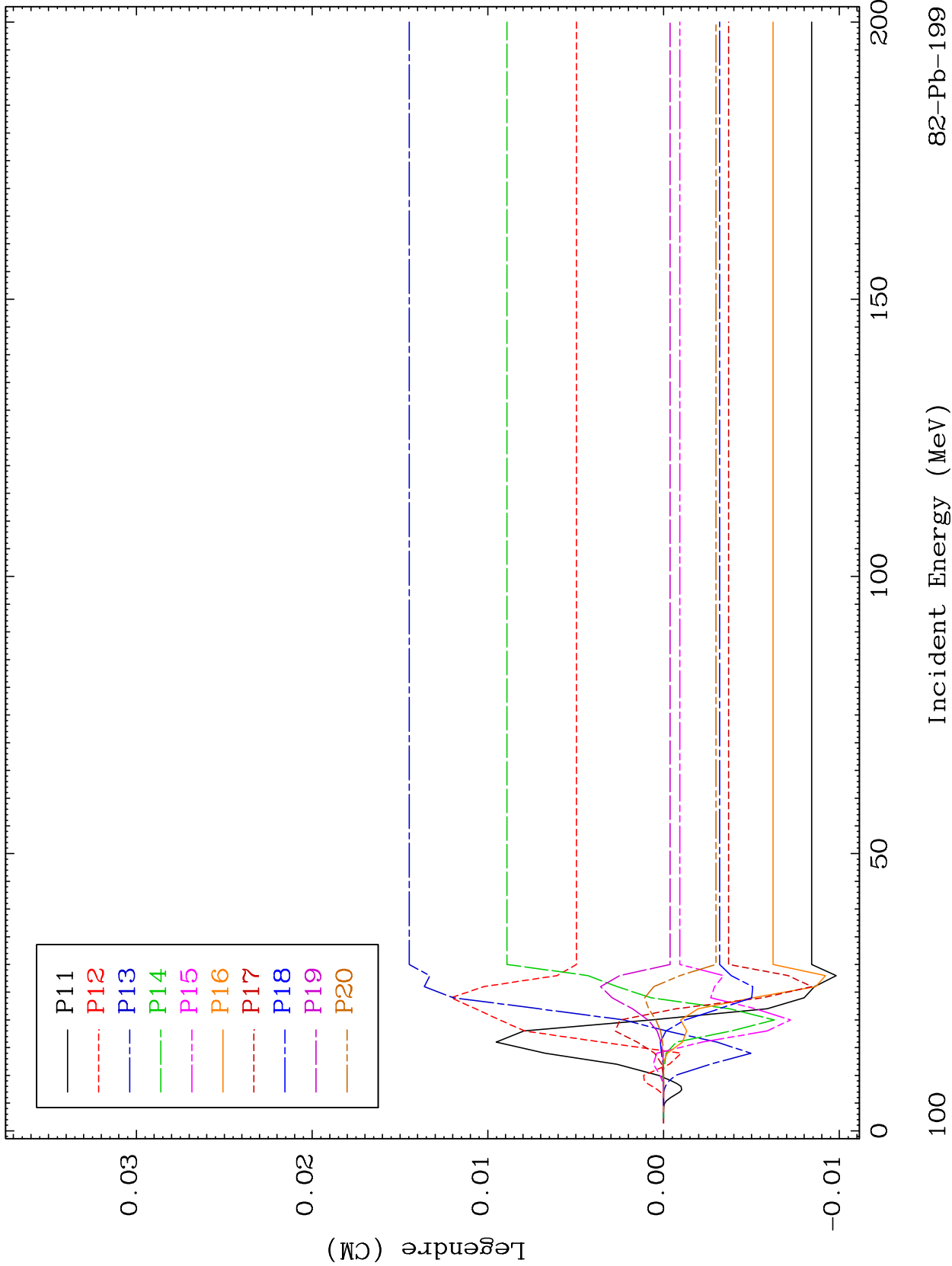




MAT 8210

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

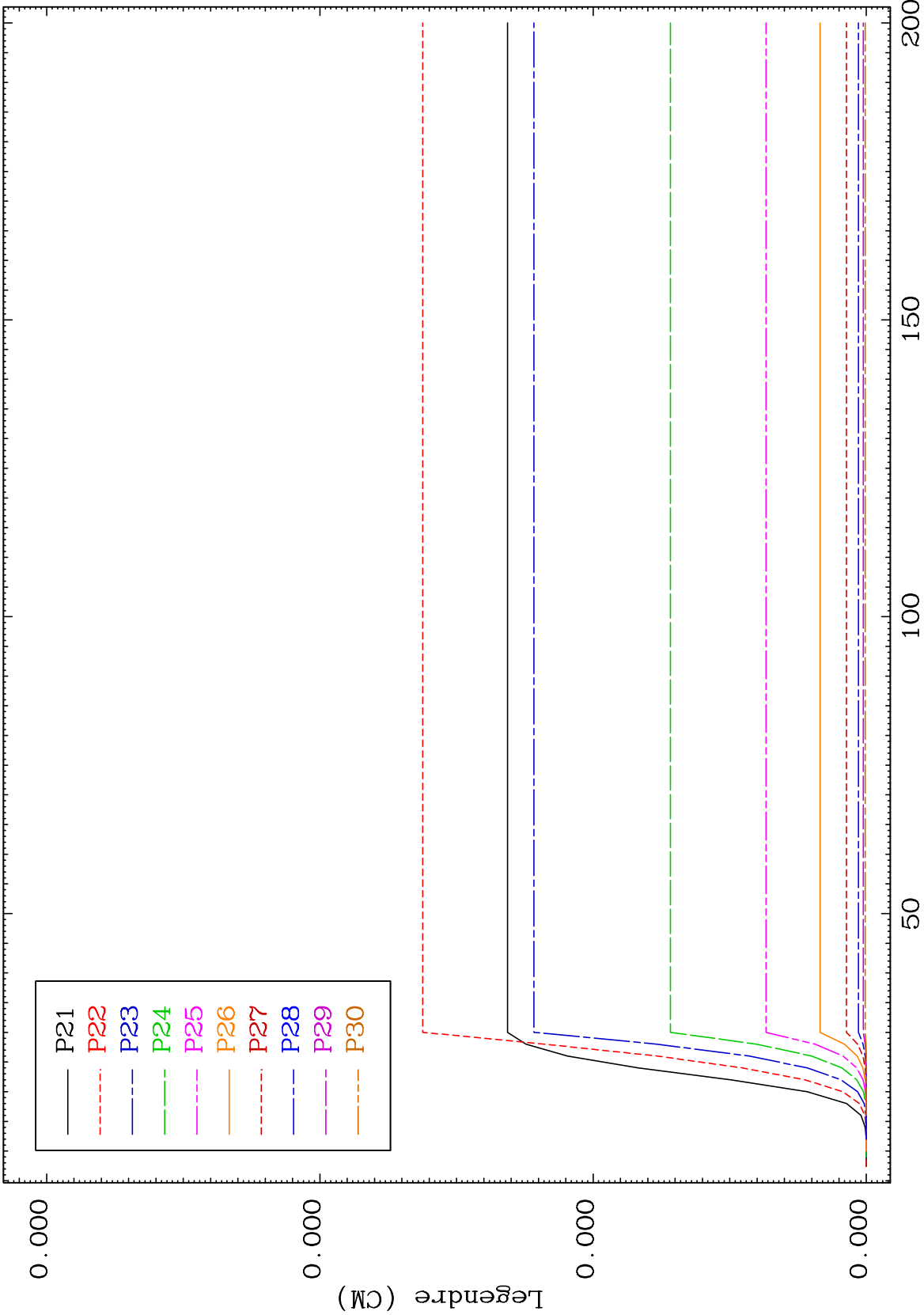
82-Pb-199



MAT 8210

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

82-Pb-199



101

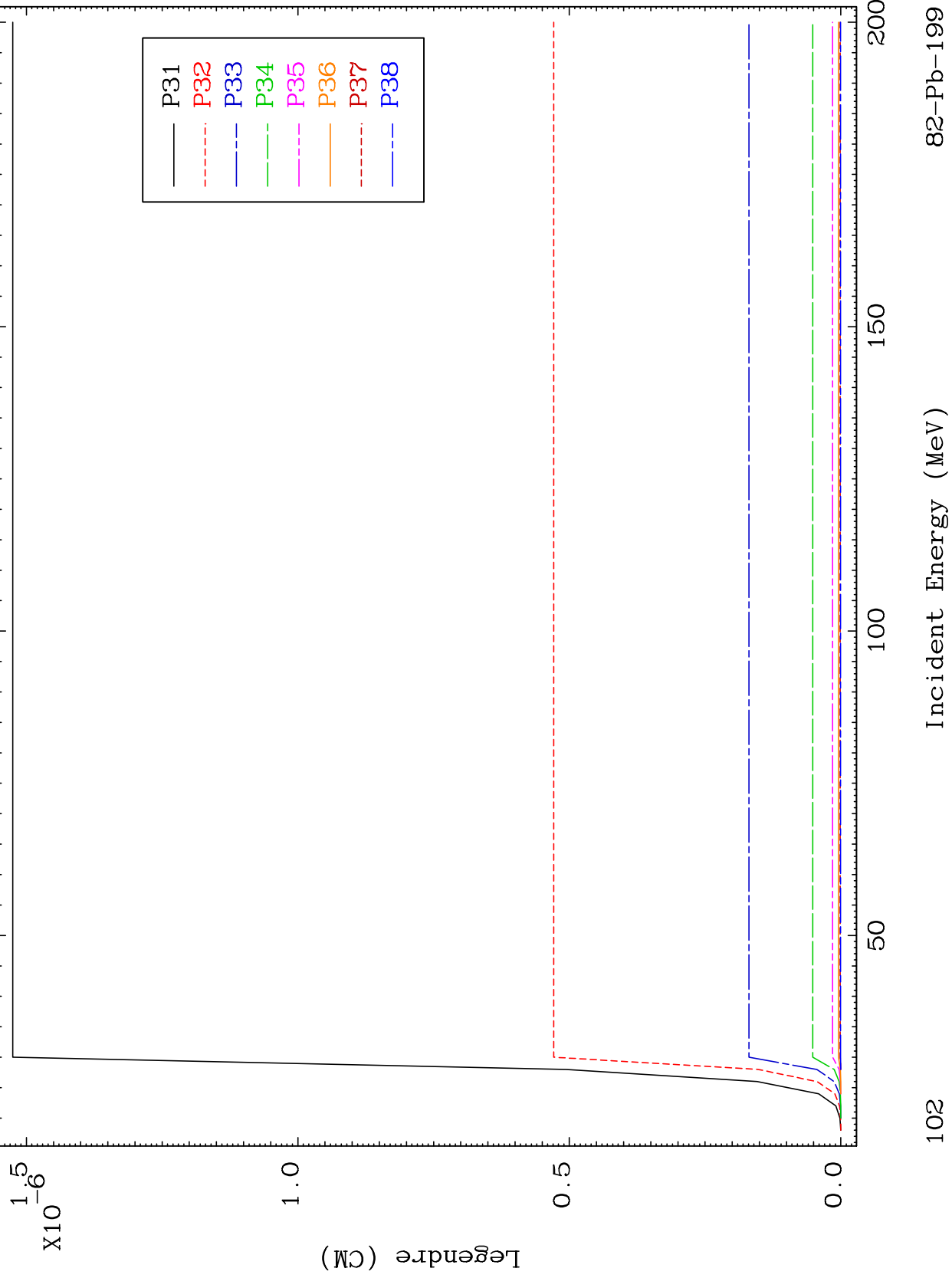
Incident Energy (MeV)

82-Pb-199

MAT 8210

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

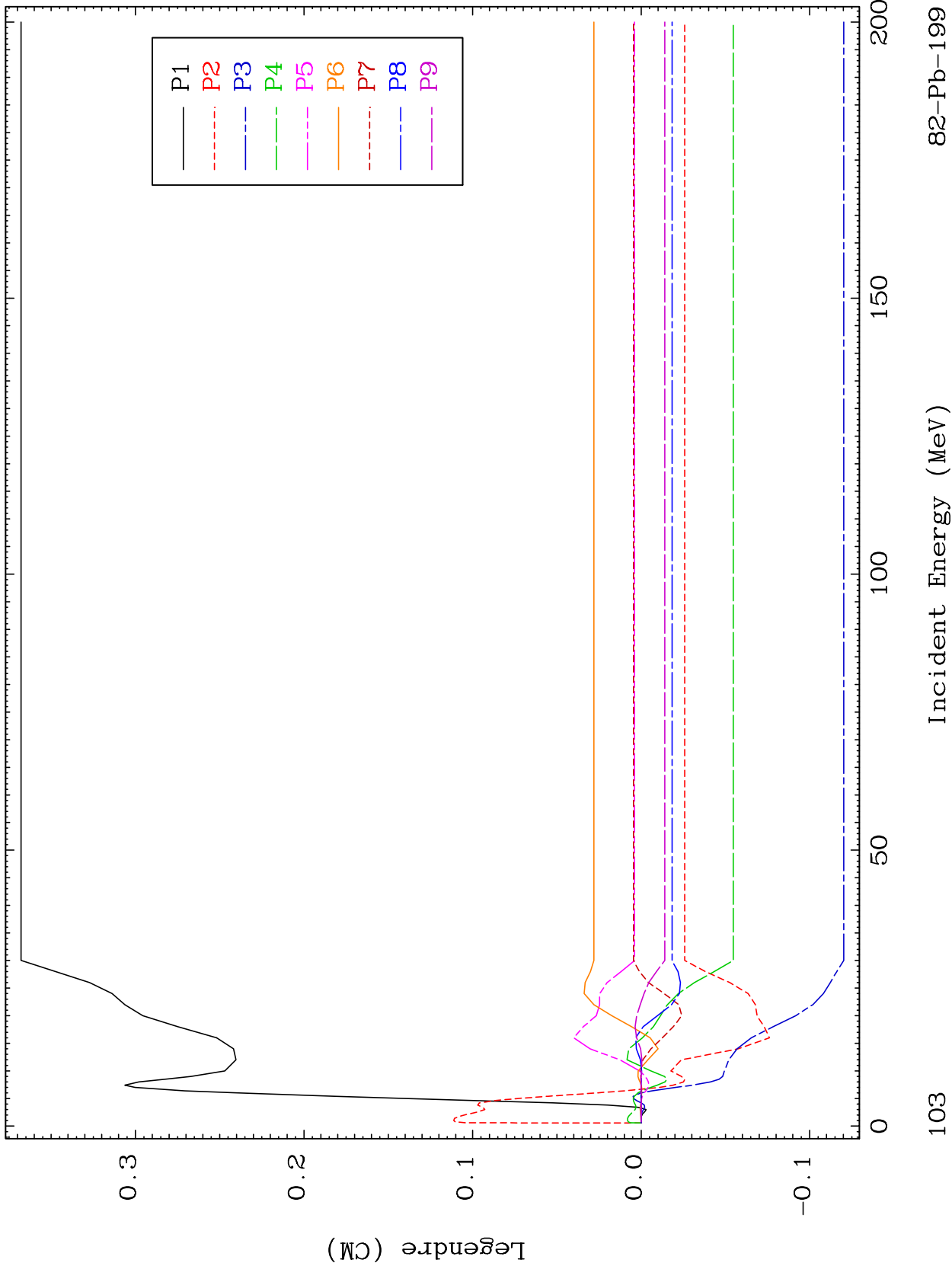
82-Pb-199



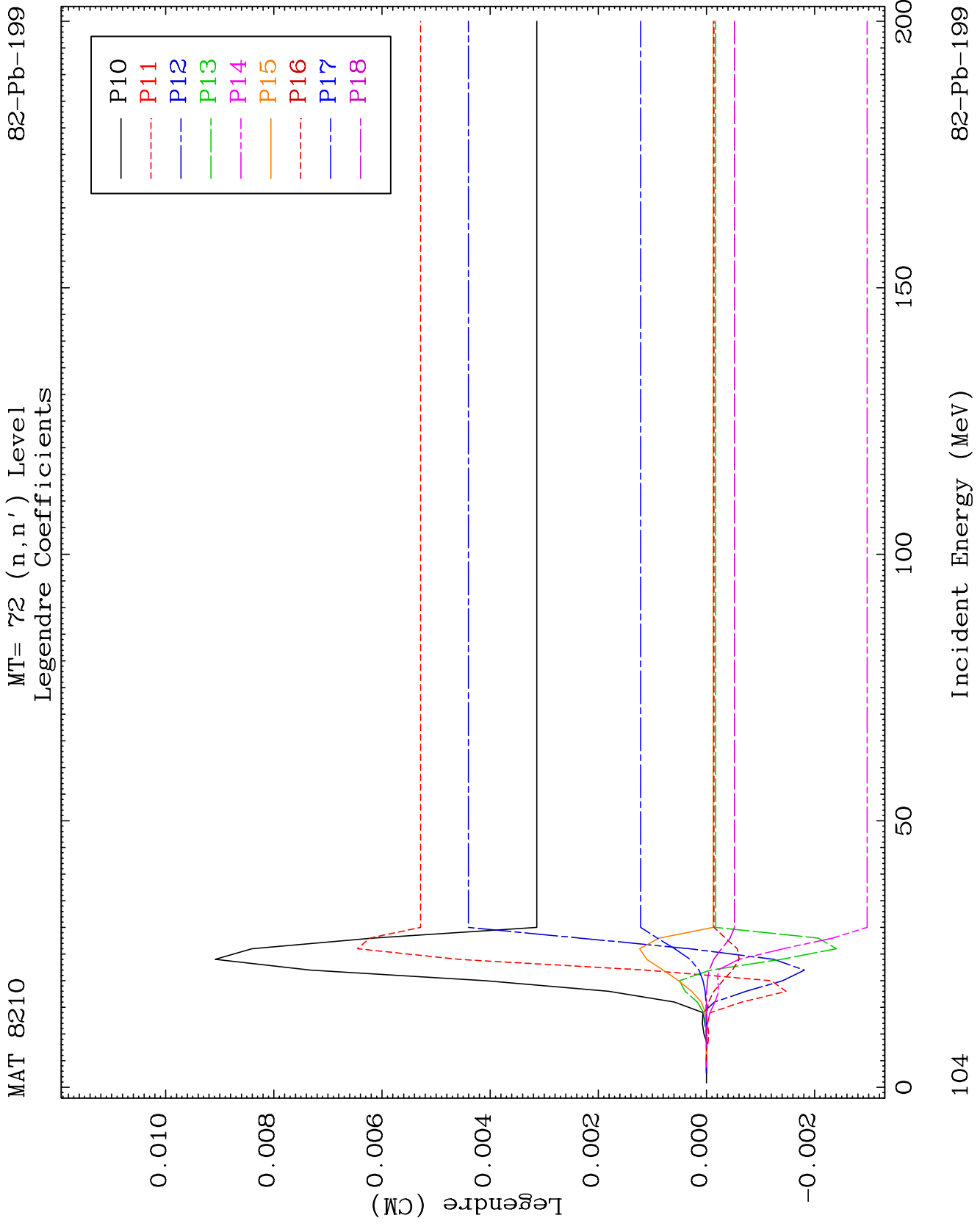
MAT 8210

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

82-Pb-199



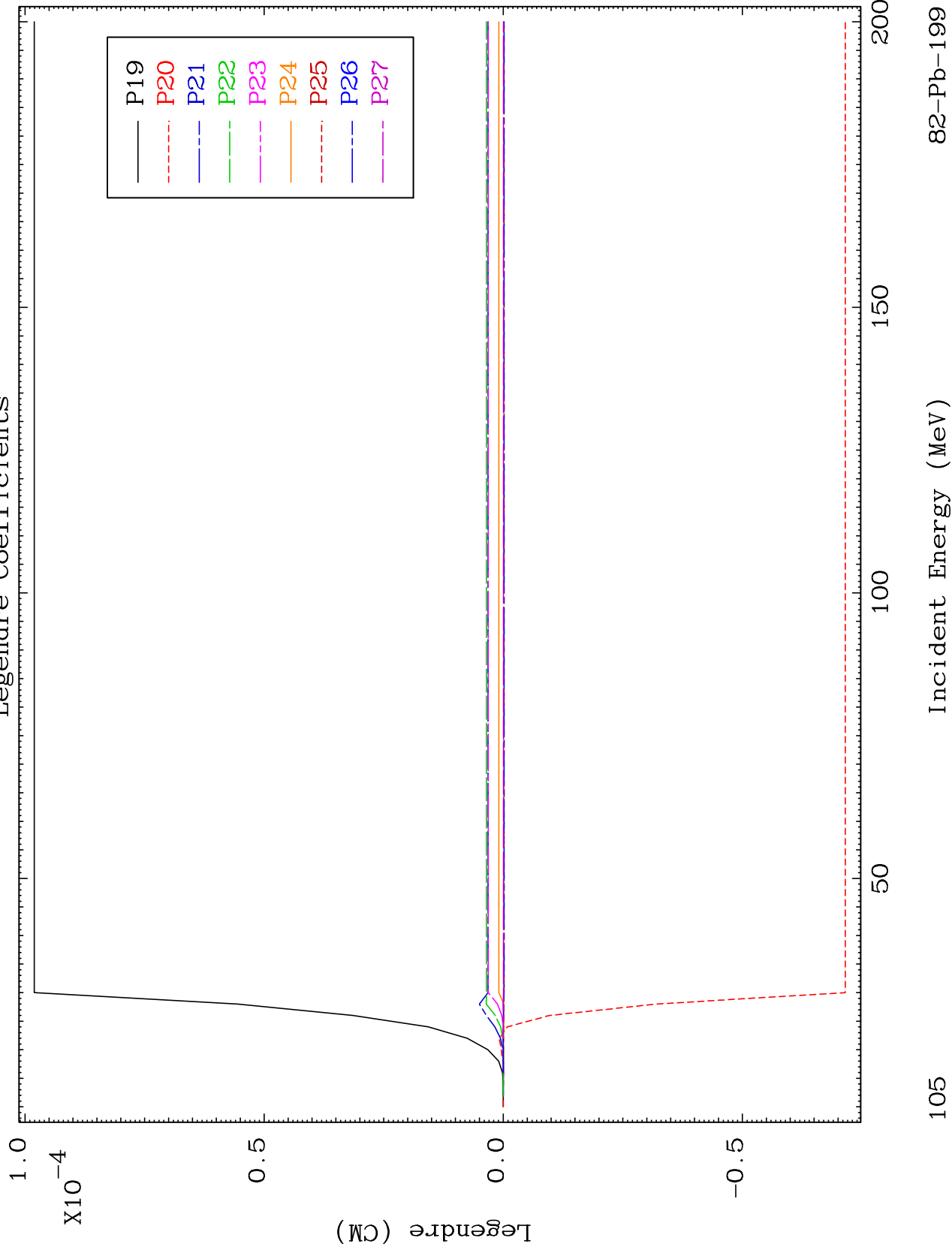
103



MAT 8210

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

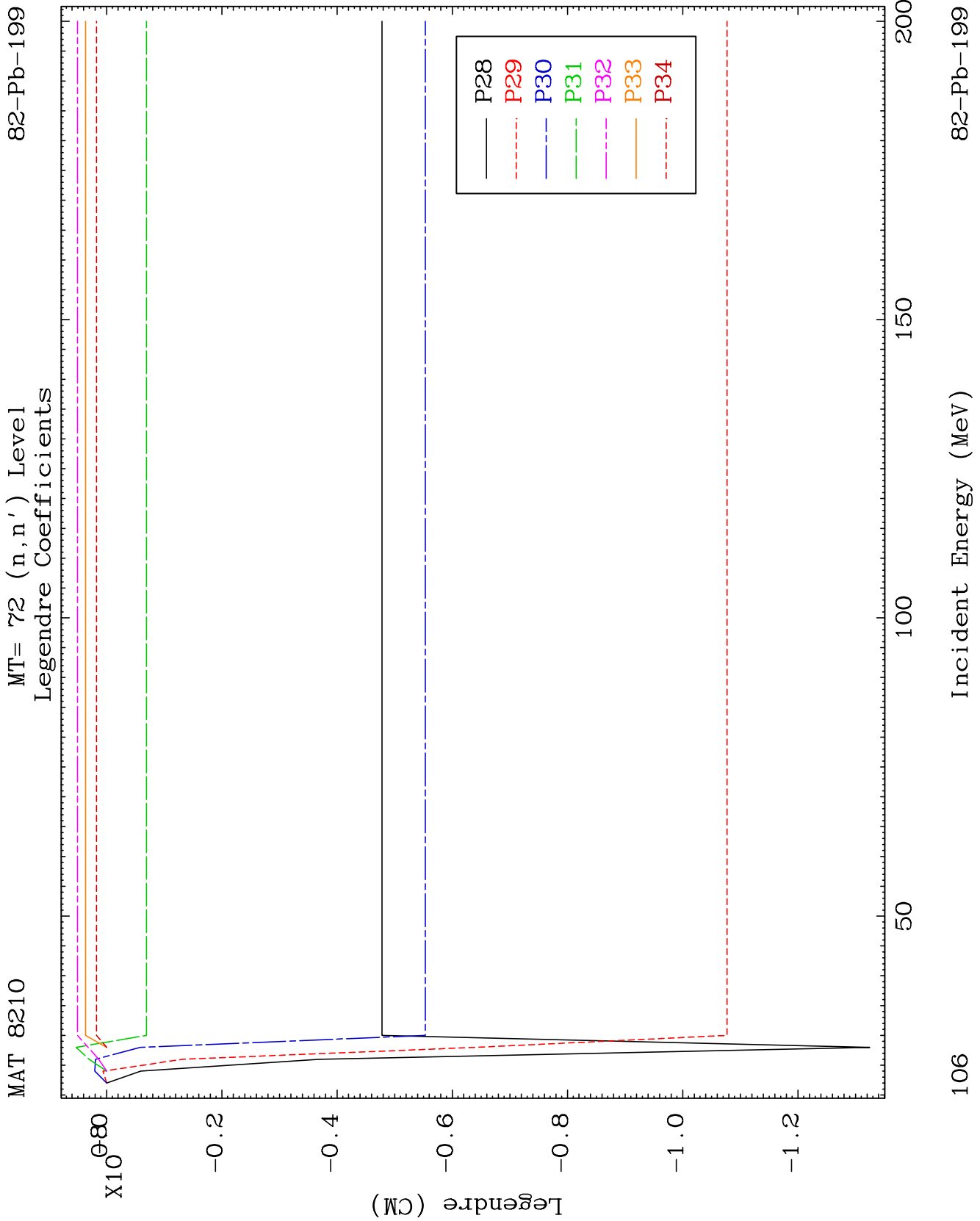
82-Pb-199



105

Incident Energy (MeV)

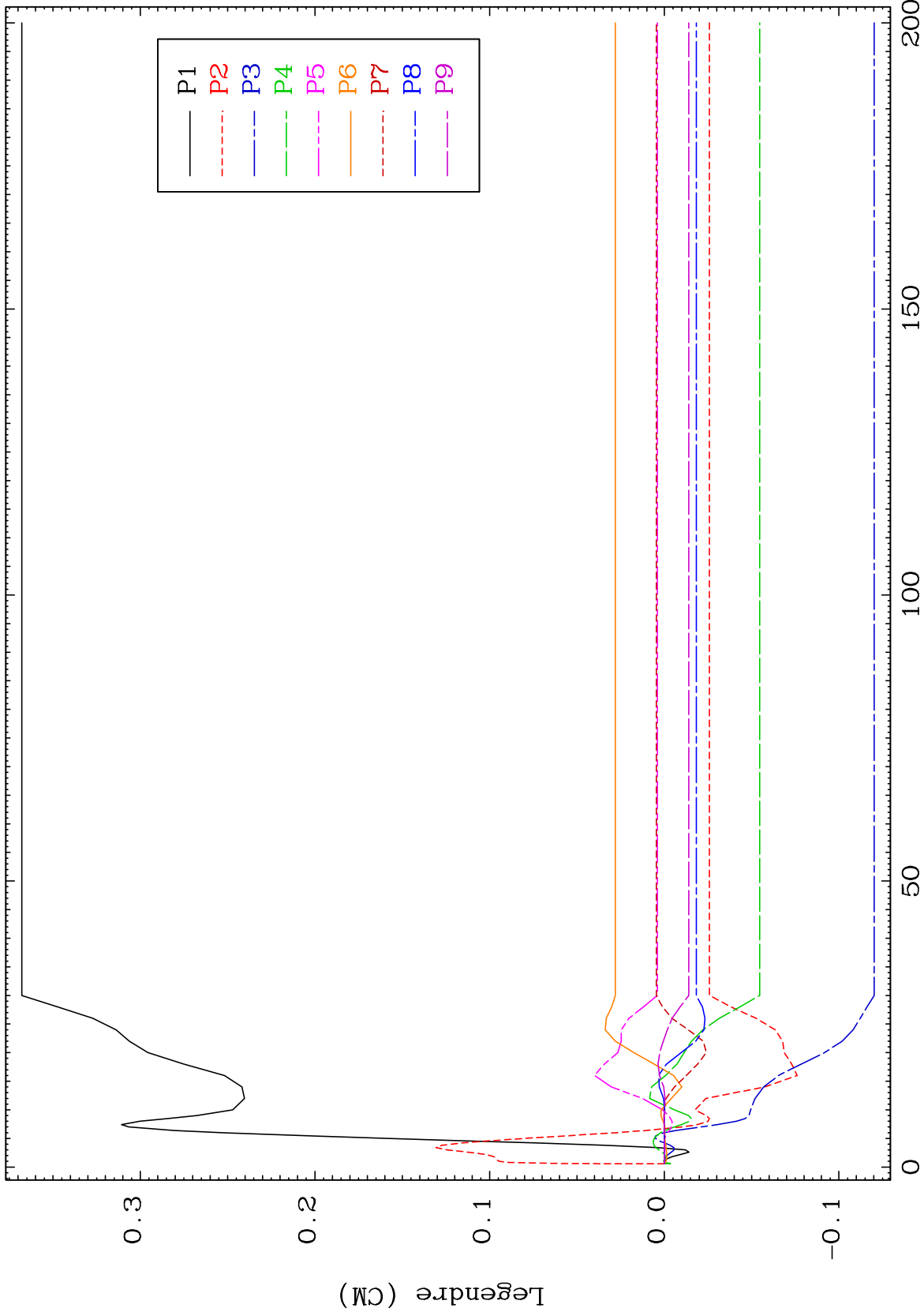
82-Pb-199



MAT 8210

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

82-Pb-199



107

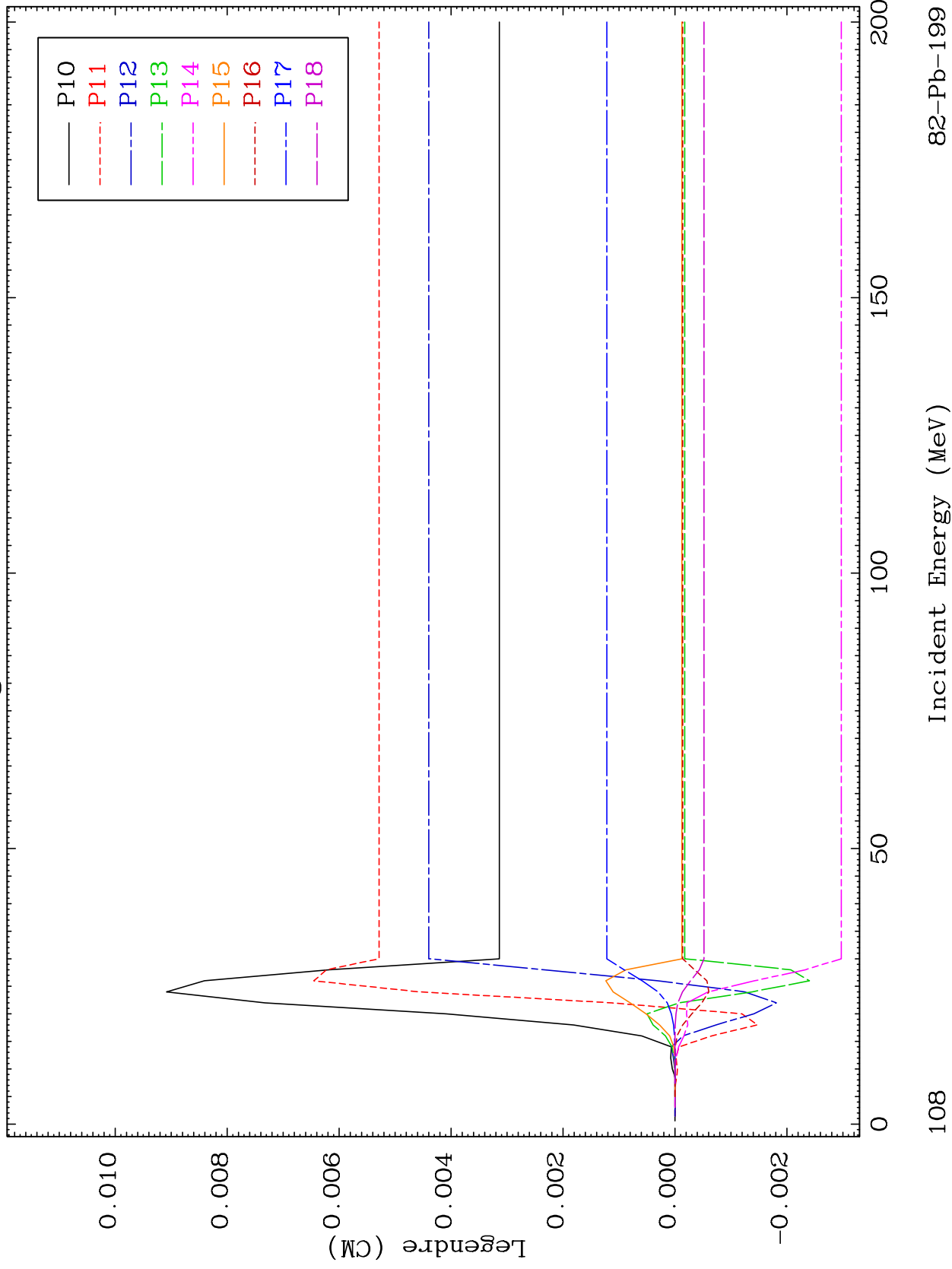
Incident Energy (MeV)

82-Pb-199

MAT 8210

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

82-Pb-199



108

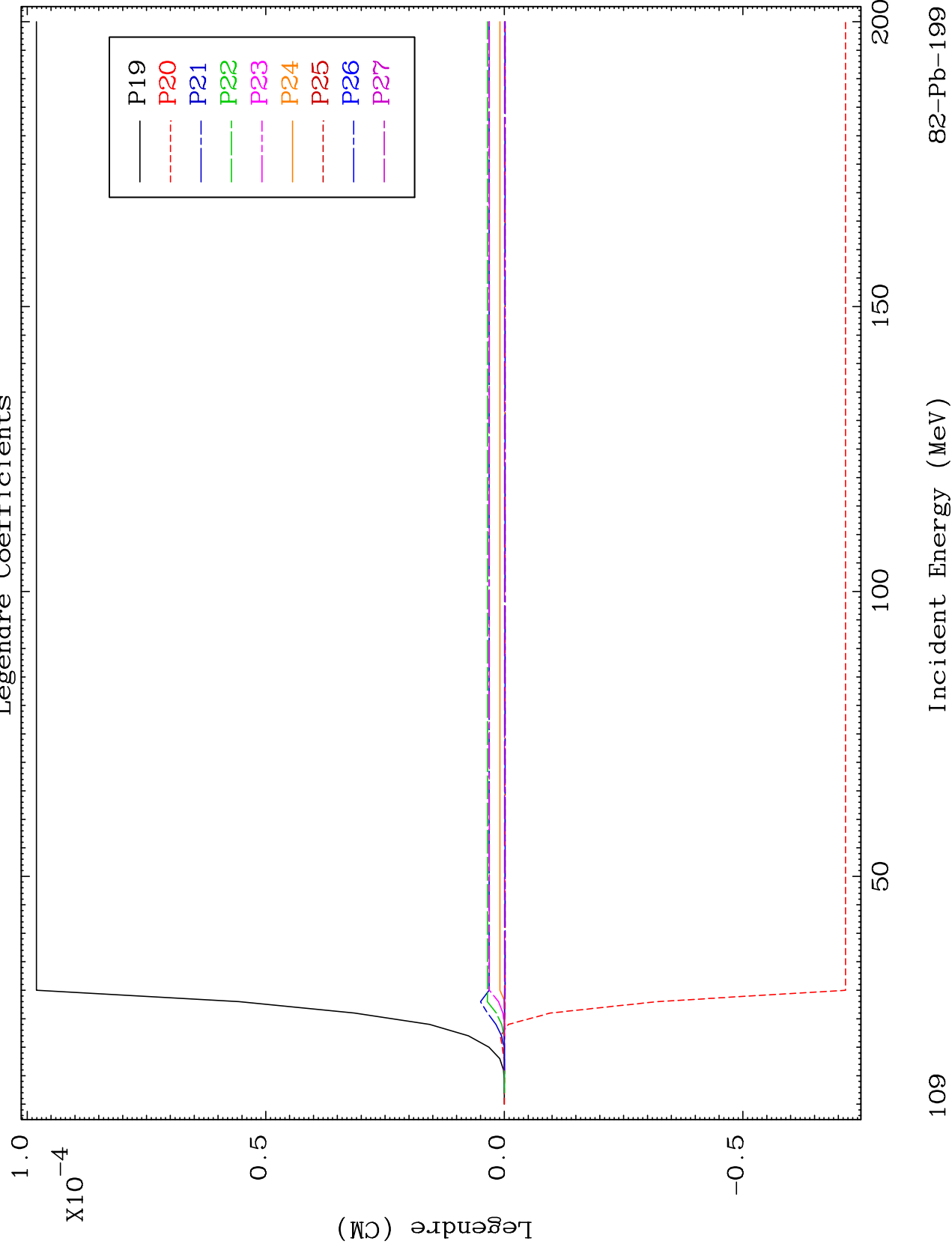
Incident Energy (MeV)

82-Pb-199

MAT 8210

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

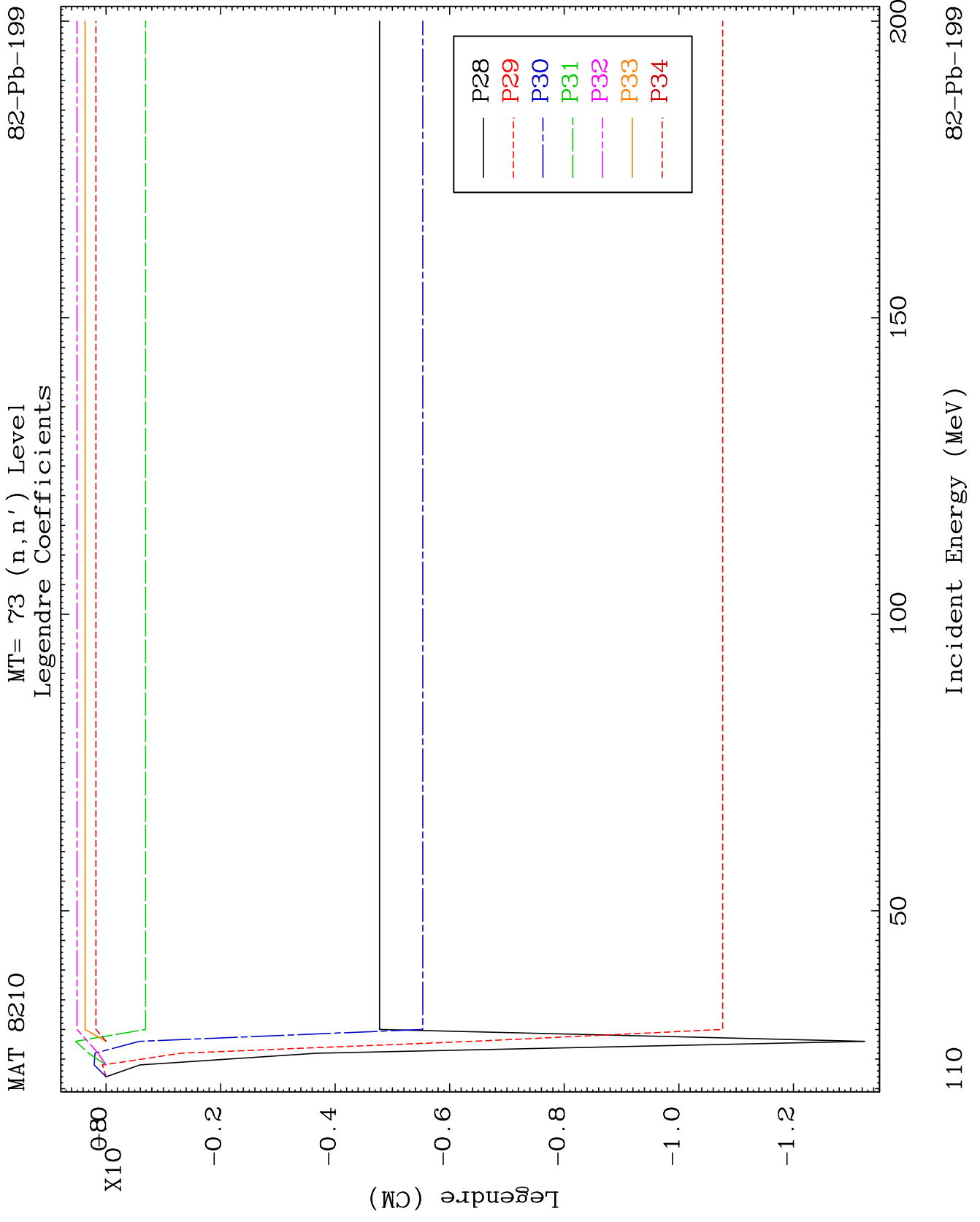
82-Pb-199



109

Incident Energy (MeV)

82-Pb-199

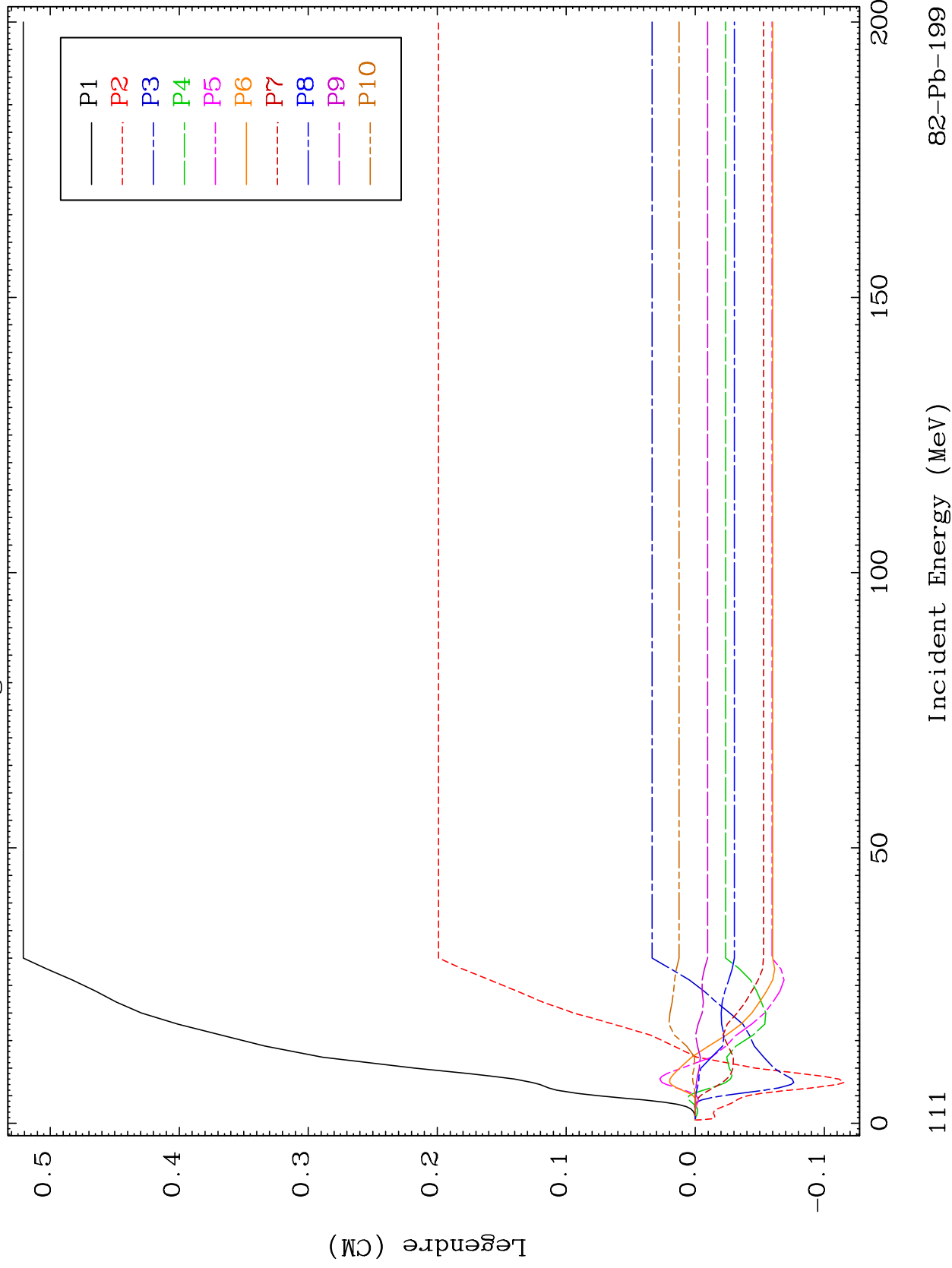


MAT 8210

MT= 74 (n,n') Level

82-Pb-199

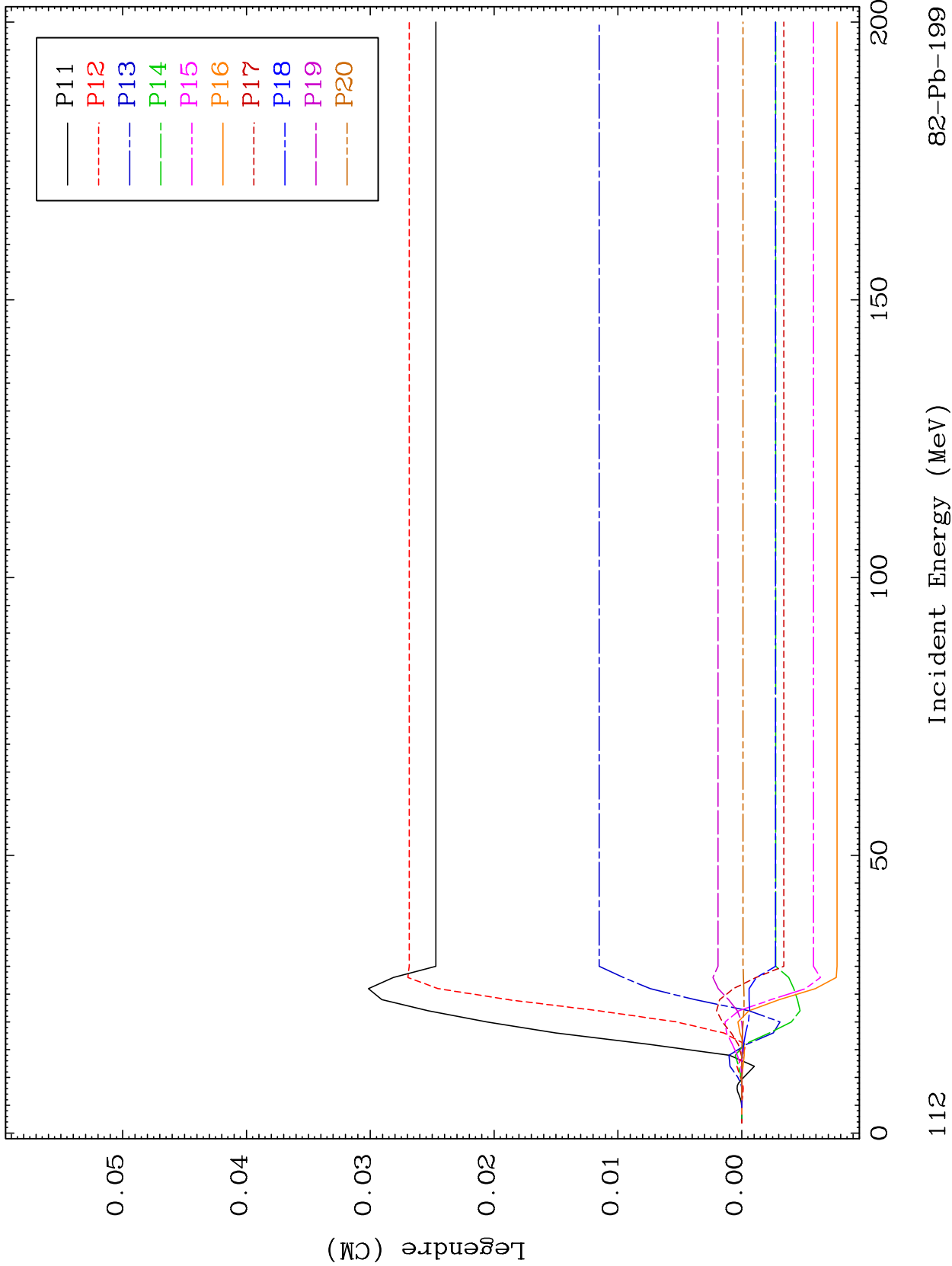
Legendre Coefficients



MAT 8210

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

82-Pb-199

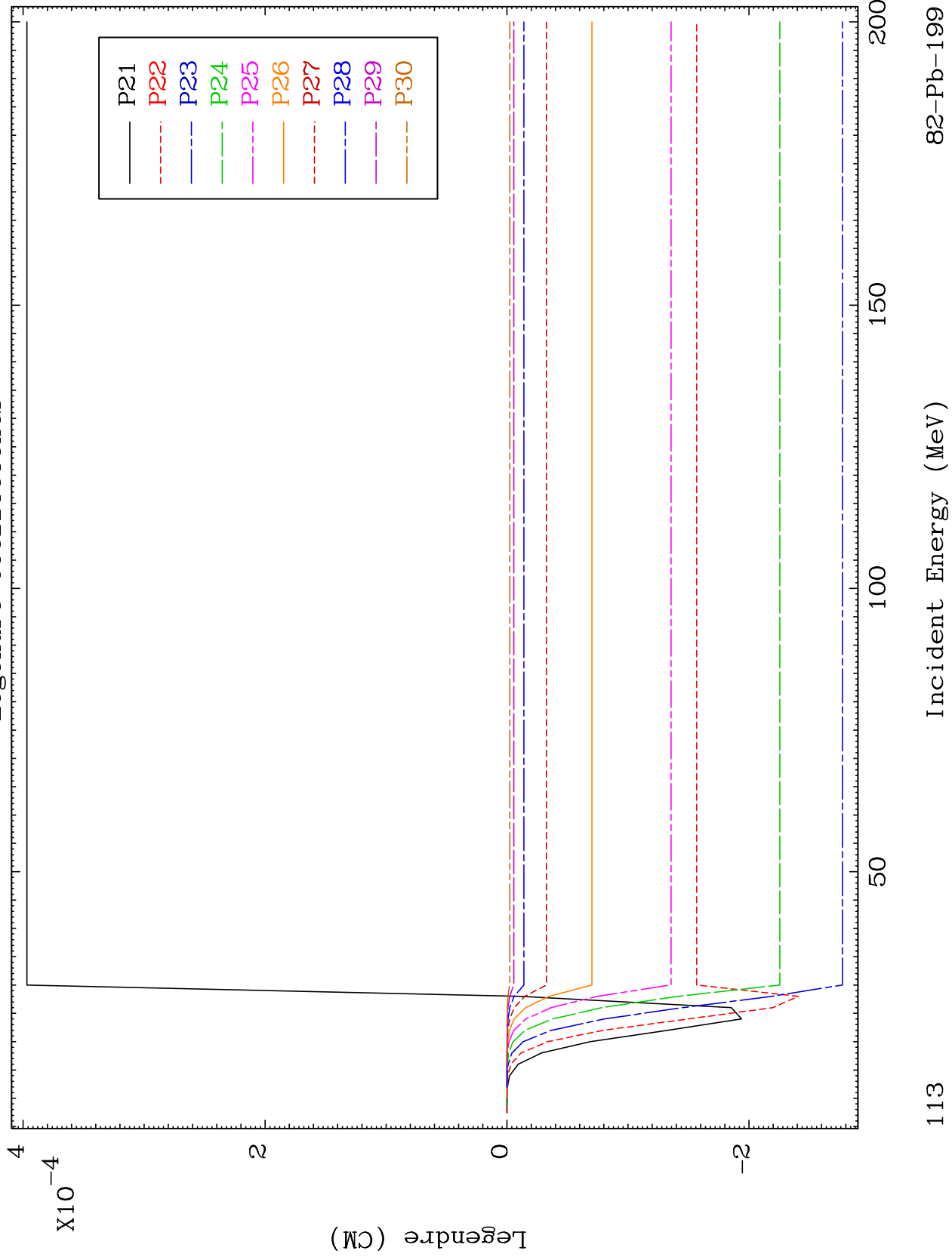


112

MAT 8210

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

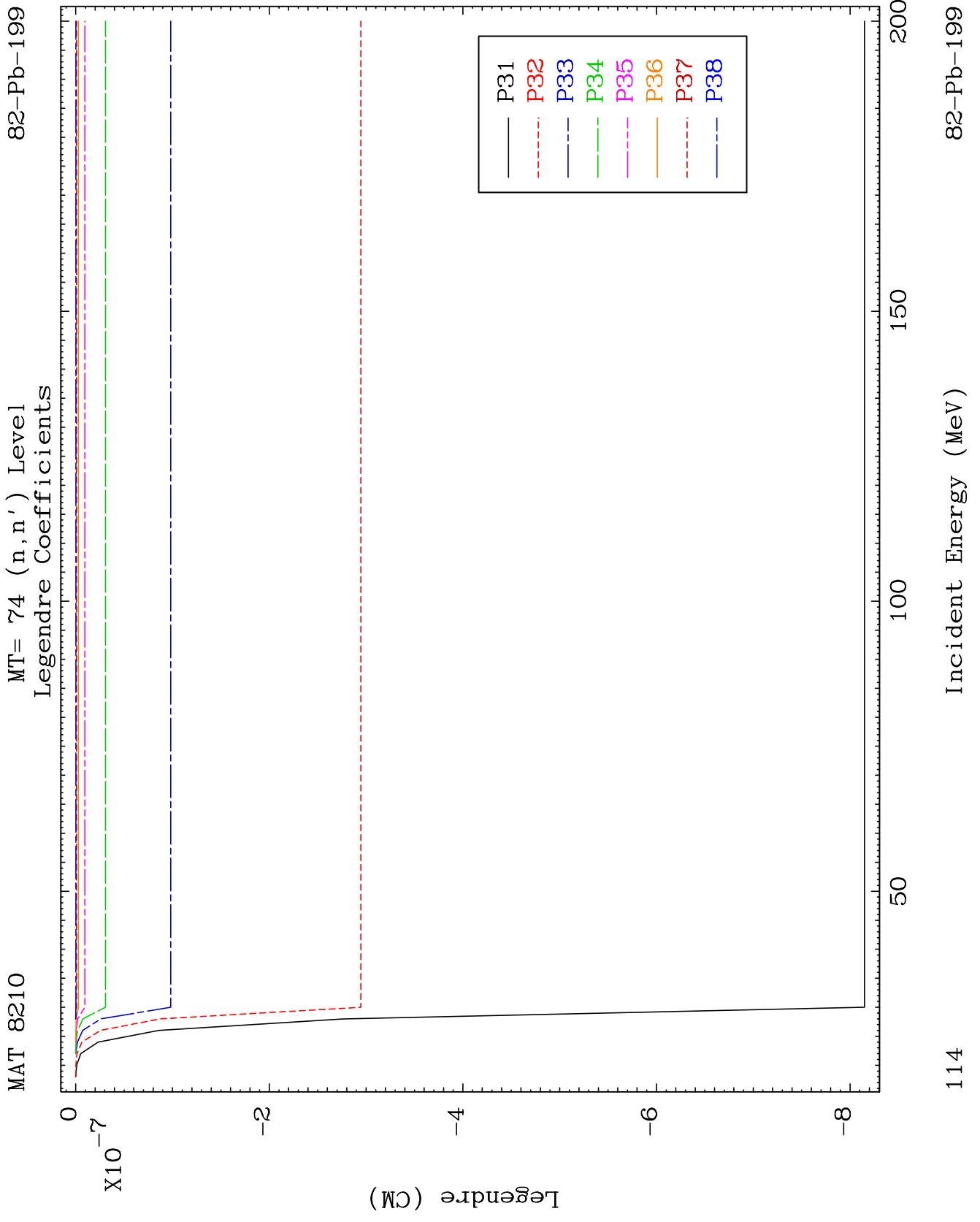
82-Pb-199



113

Incident Energy (MeV)

82-Pb-199

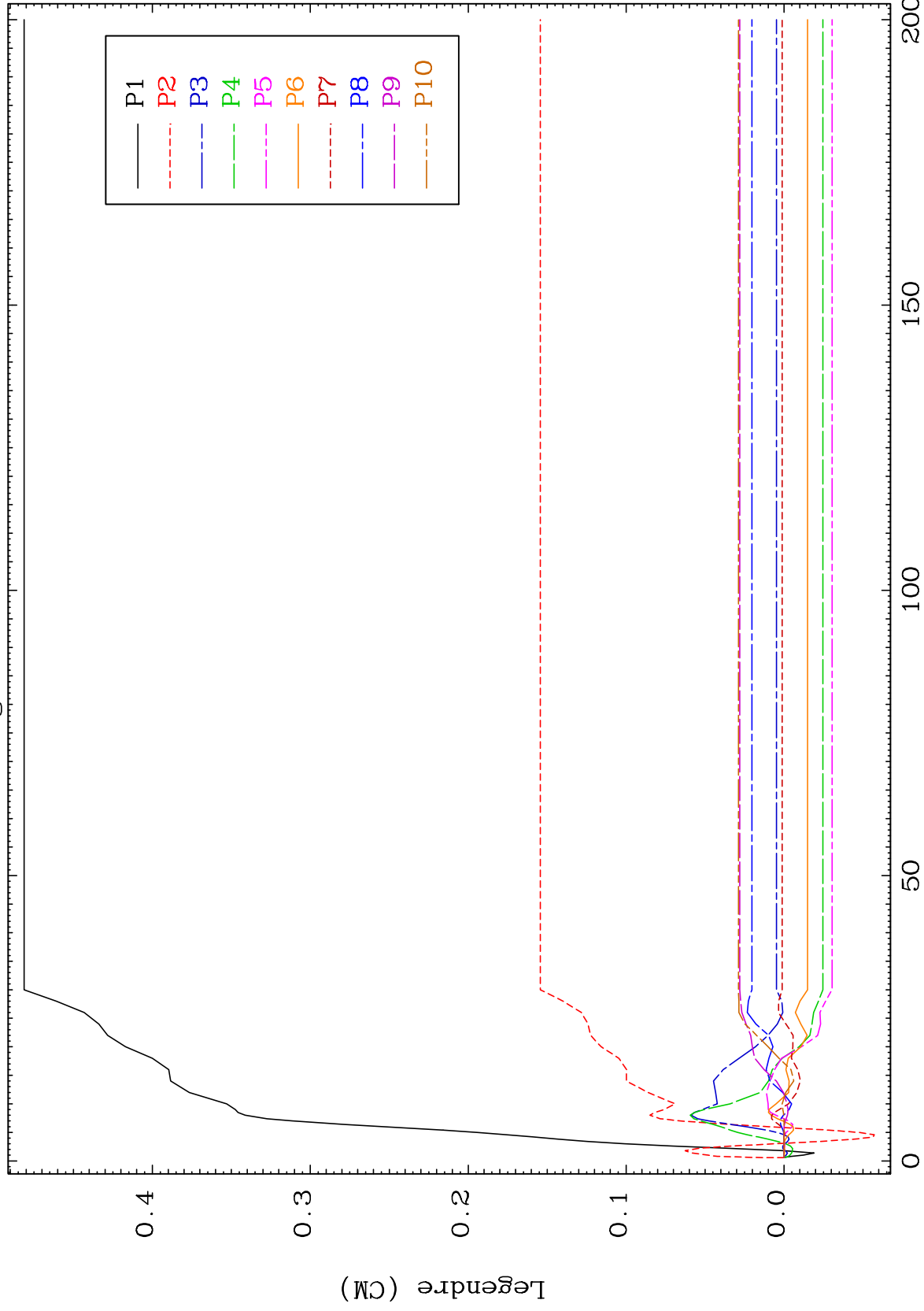


MAT 8210

MT= 75 (n,n') Level

82-Pb-199

Legendre Coefficients



115

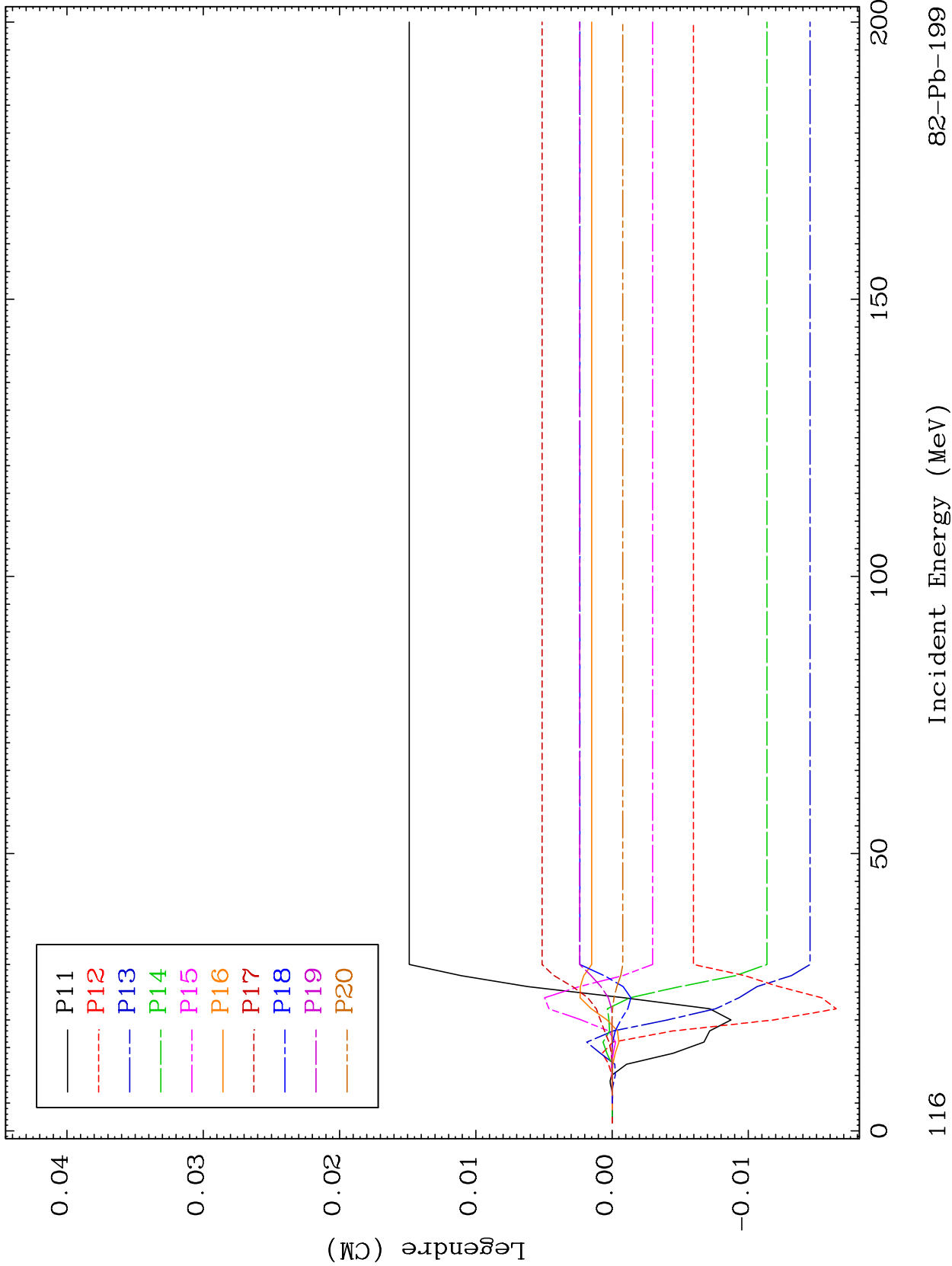
Incident Energy (MeV)

82-Pb-199

MAT 8210

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

82-Pb-199



116

Incident Energy (MeV)

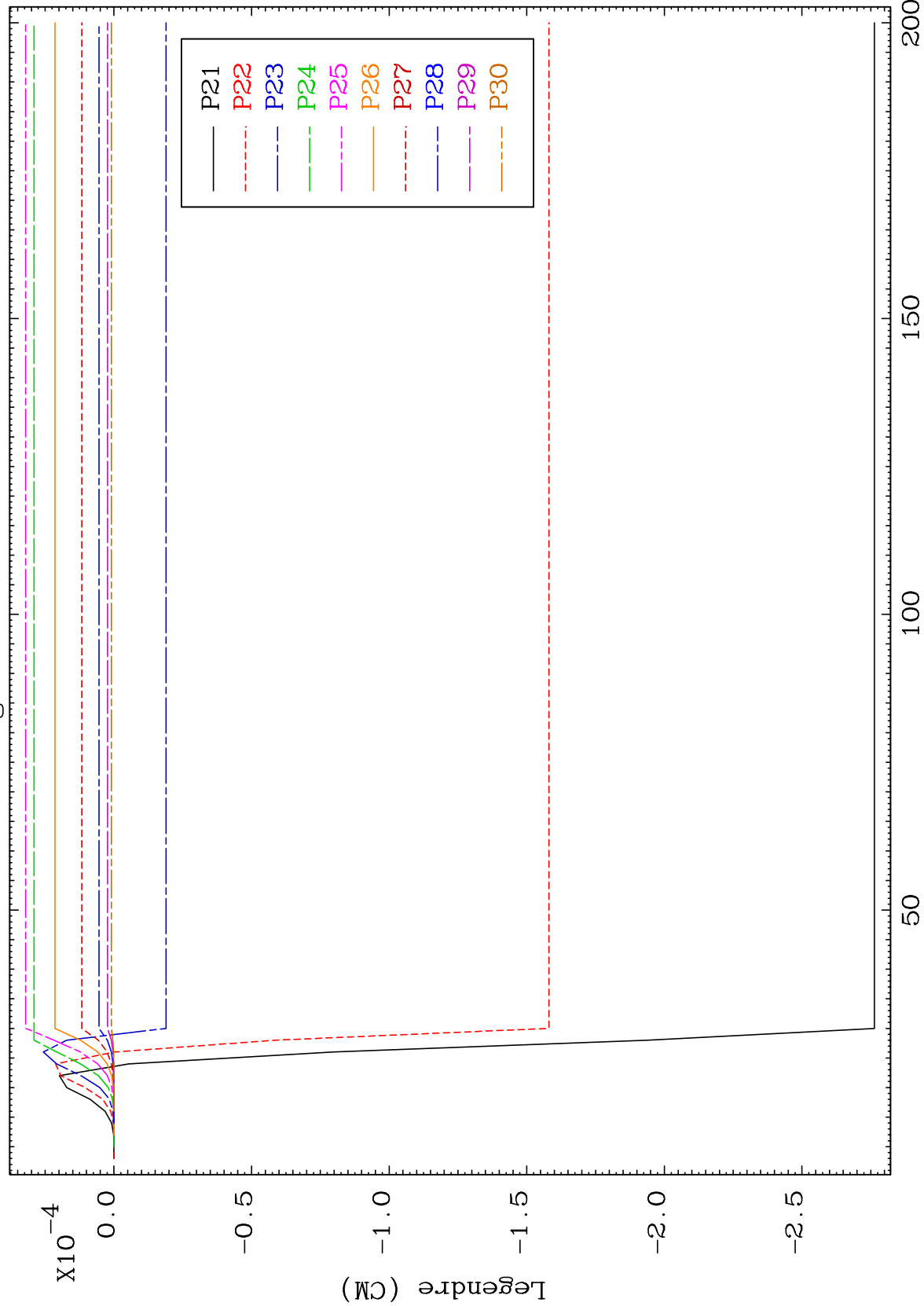
82-Pb-199

MAT 8210

MT= 75 (n,n') Level

82-Pb-199

Legendre Coefficients



117

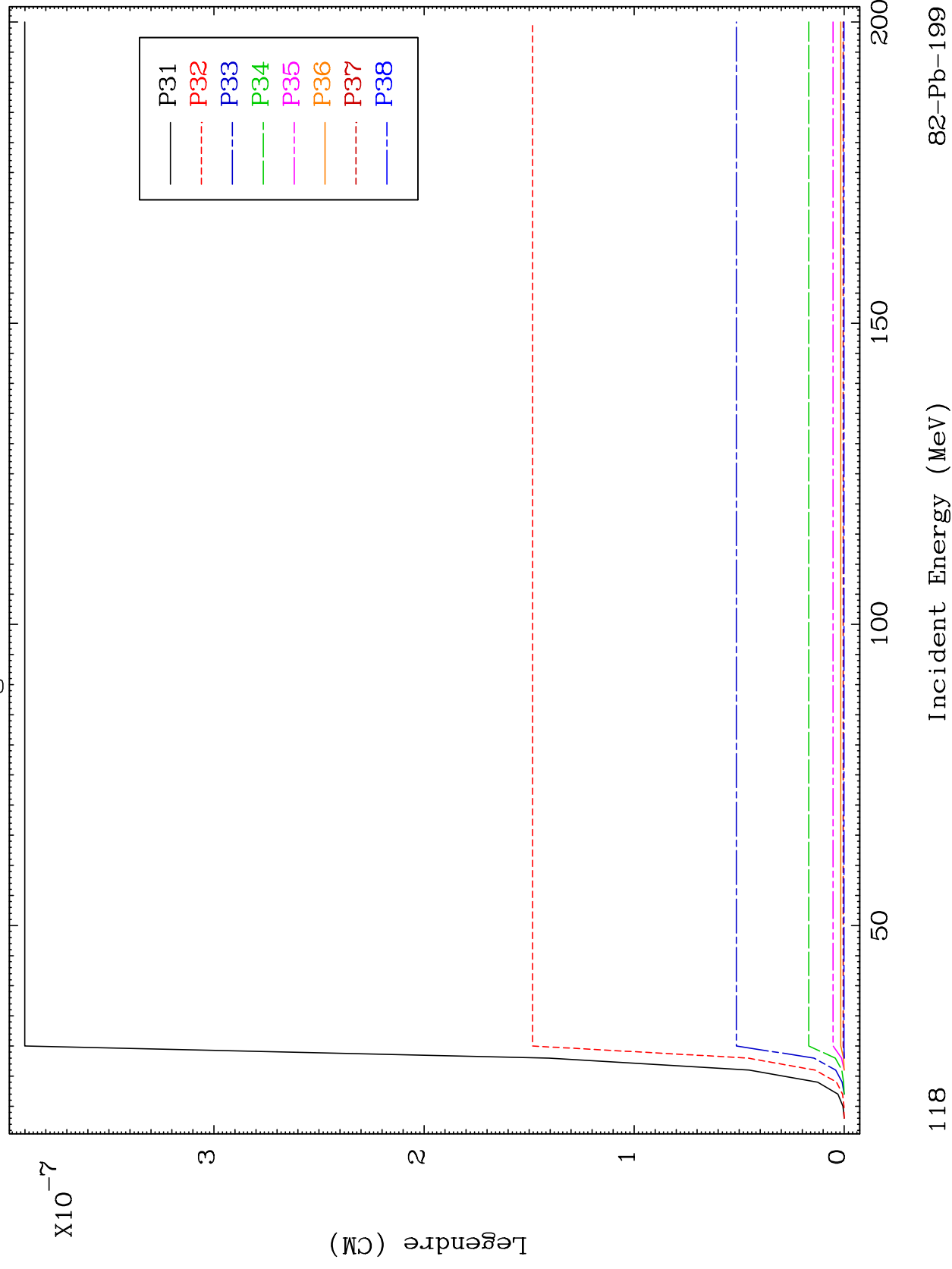
Incident Energy (MeV)

82-Pb-199

MAT 8210

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

82-Pb-199



118

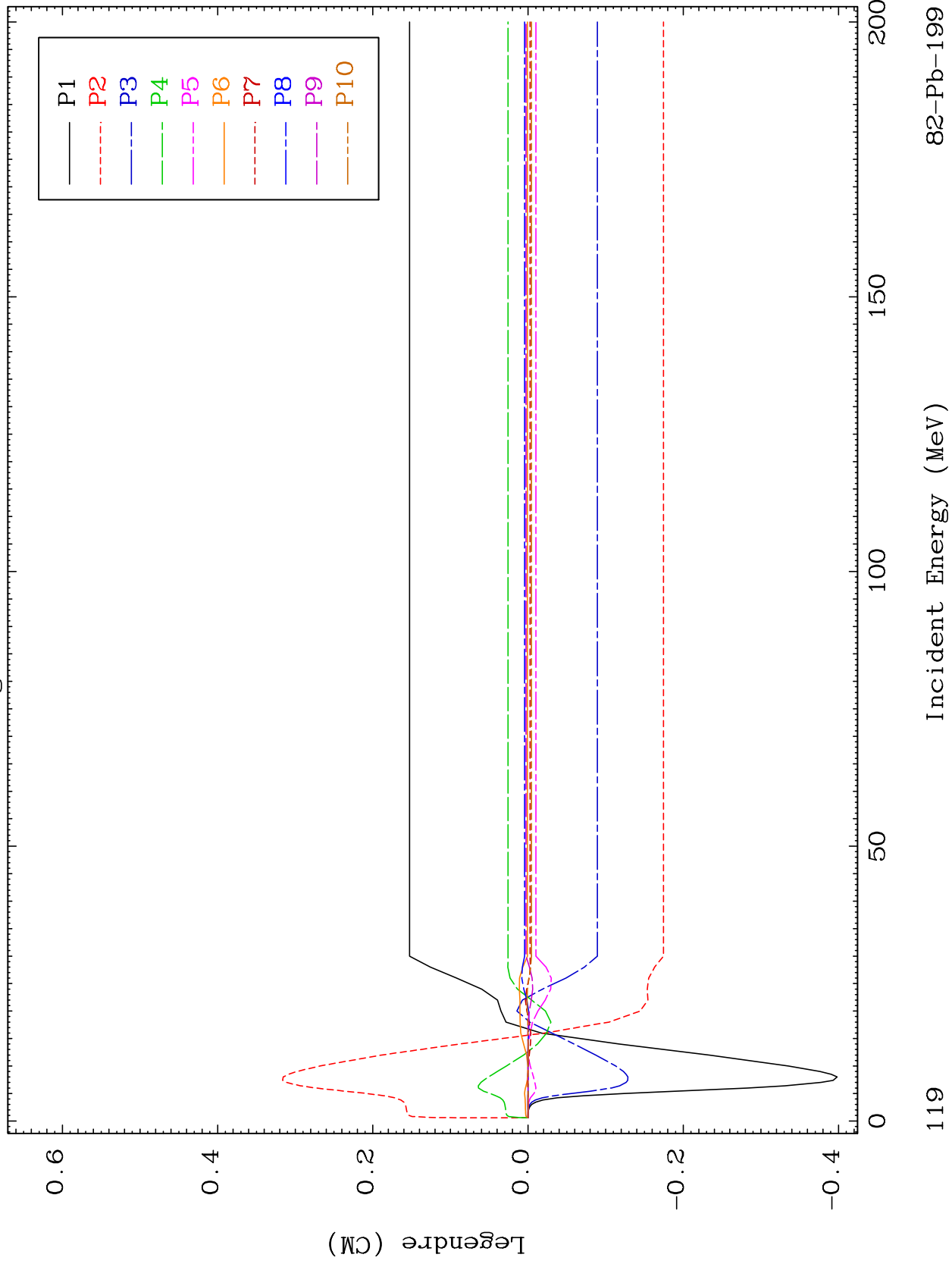
Incident Energy (MeV)

82-Pb-199

MAT 8210

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

82-Pb-199



82-Pb-199

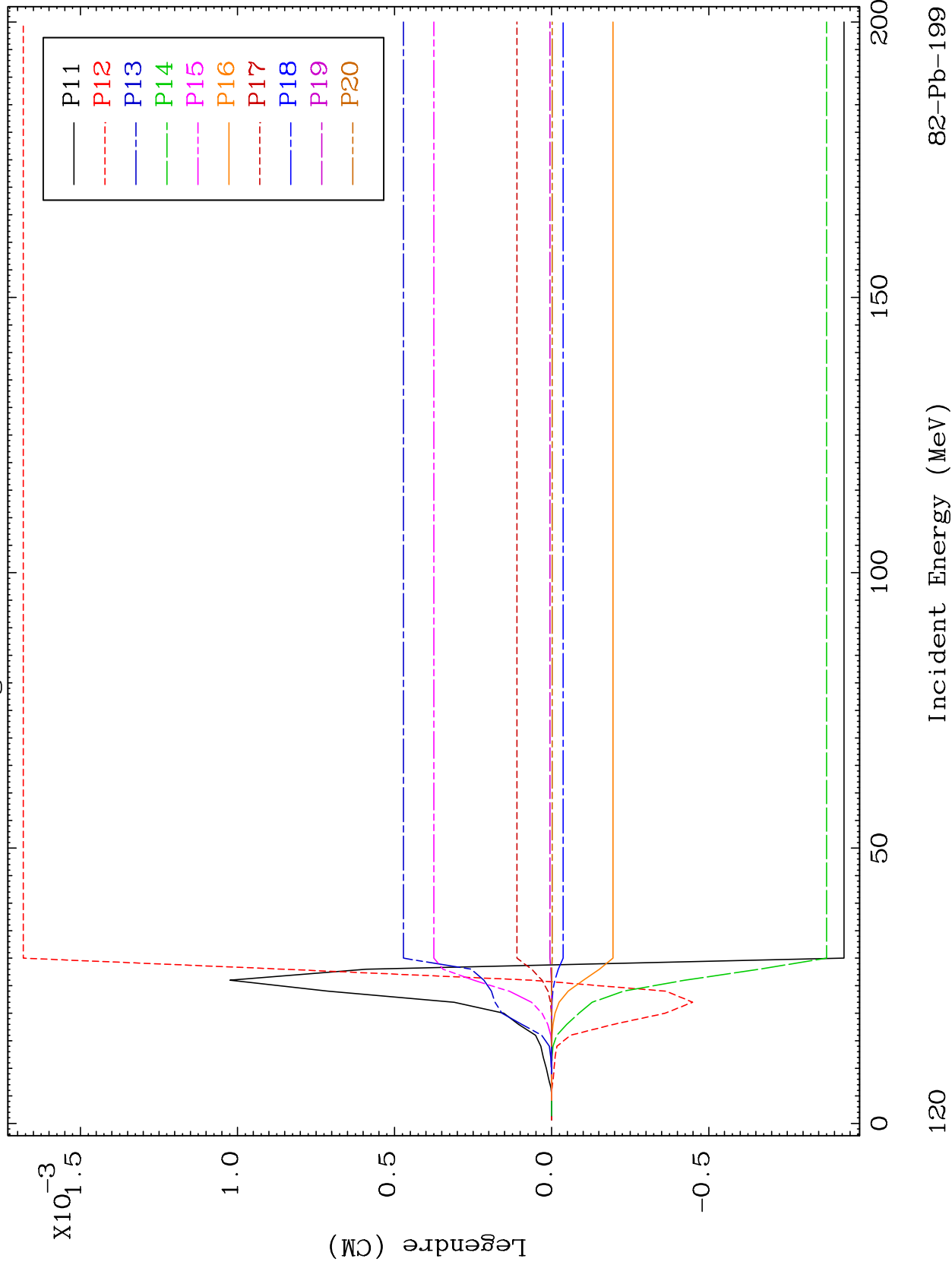
Incident Energy (MeV)

119

MAT 8210

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

82-Pb-199



82-Pb-199

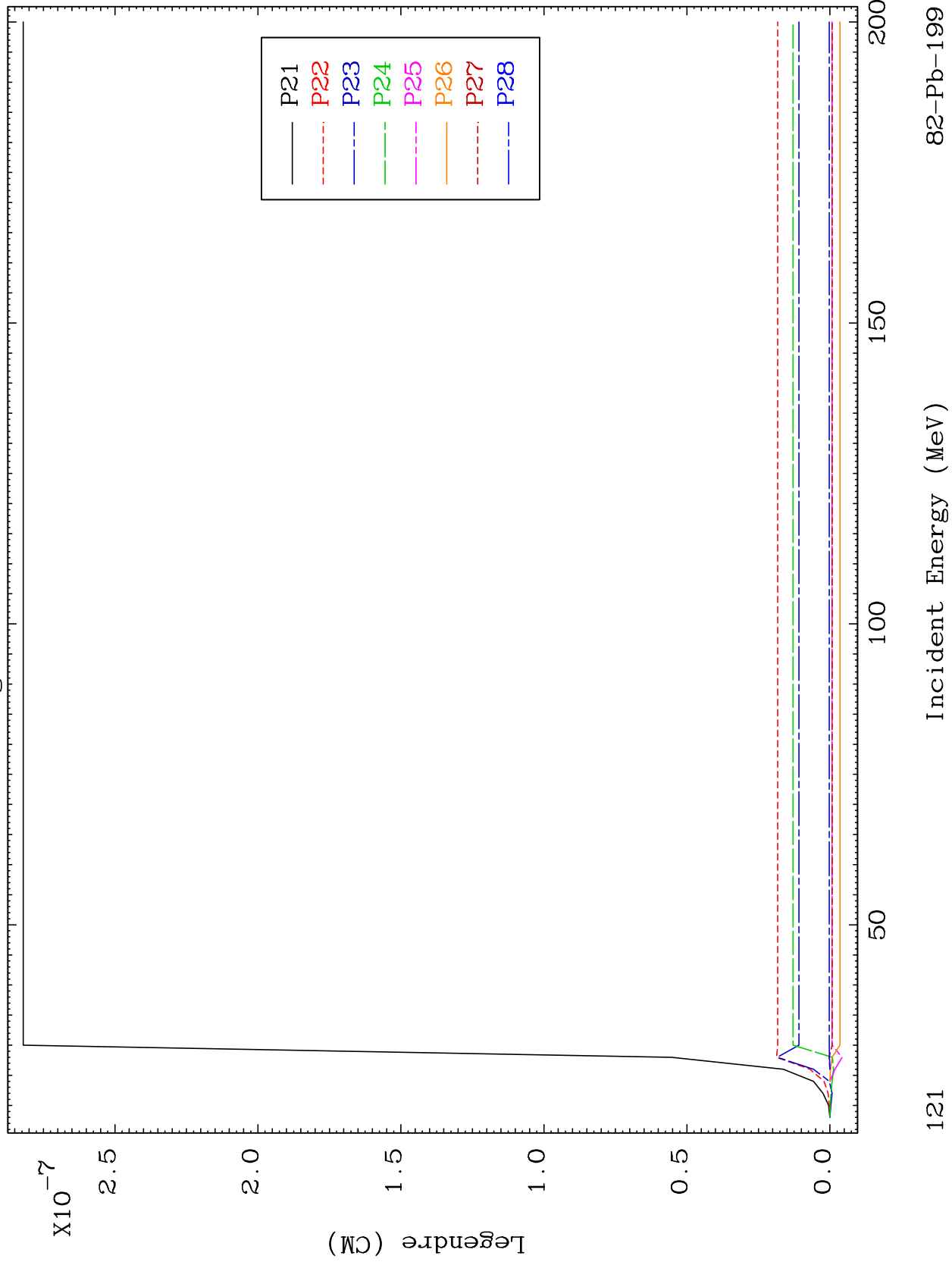
Incident Energy (MeV)

120

MAT 8210

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

82-Pb-199



121

Incident Energy (MeV)

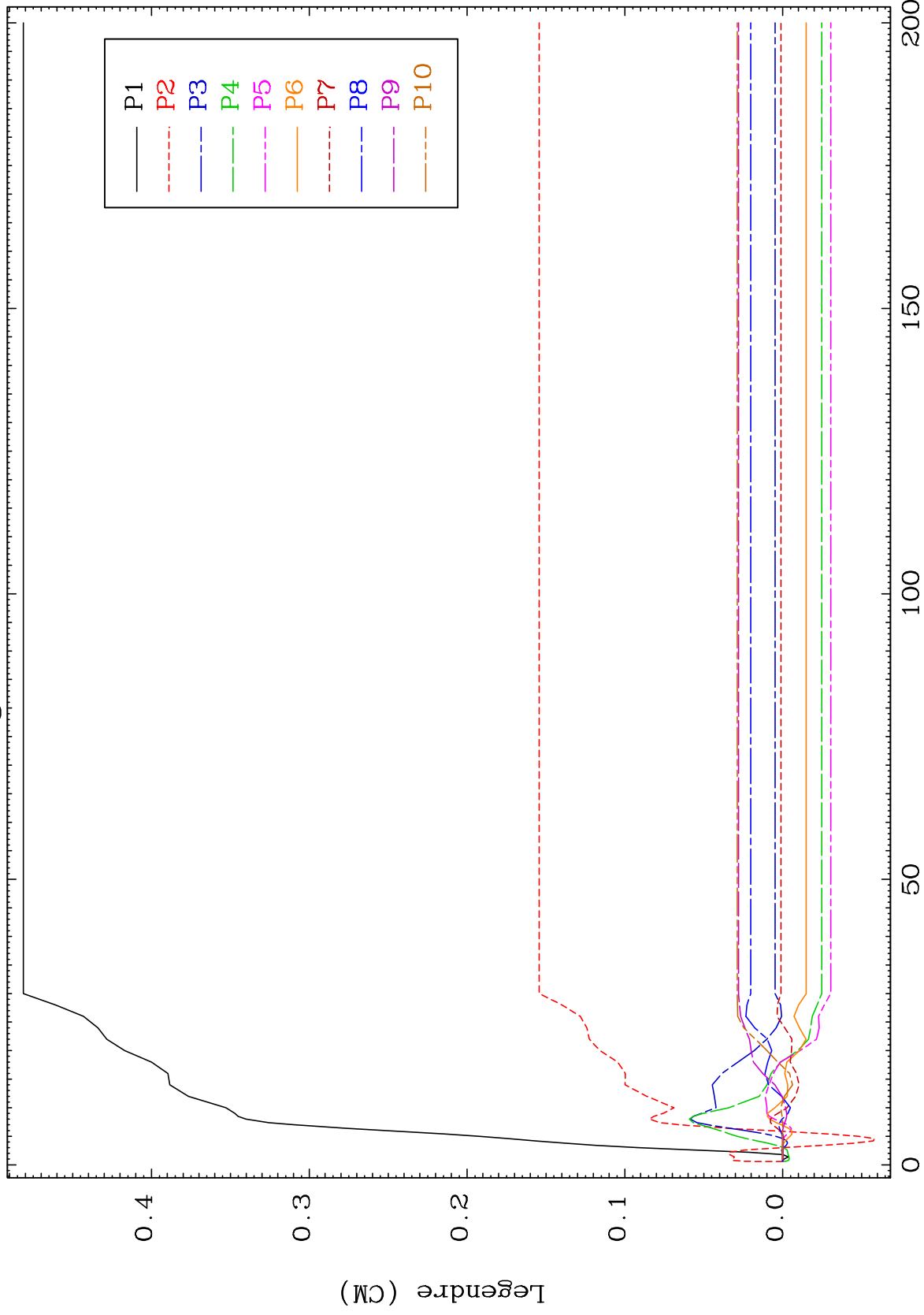
82-Pb-199

MAT 8210

MT= 77 (n,n') Level

82-Pb-199

Legendre Coefficients



122

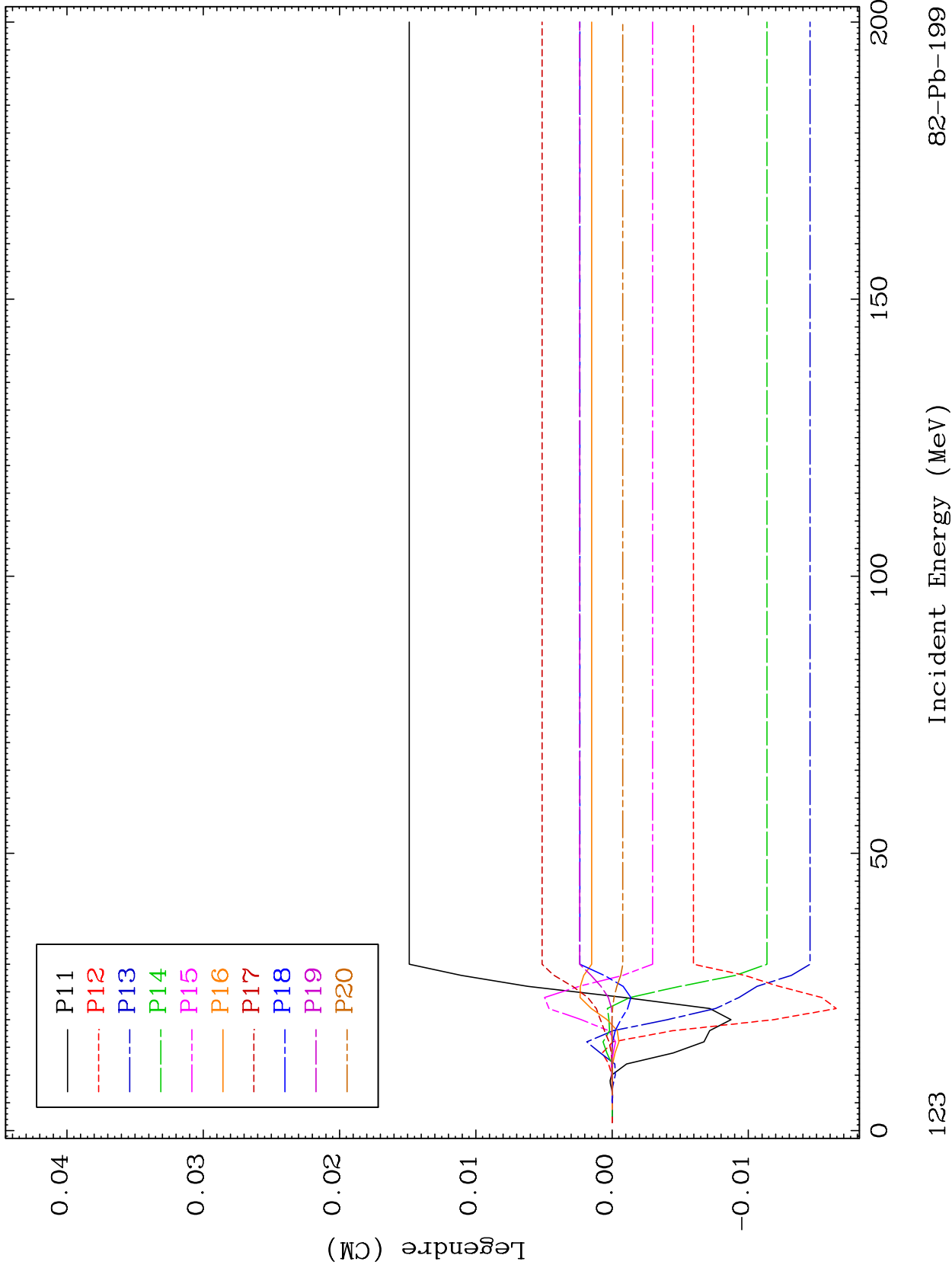
Incident Energy (MeV)

82-Pb-199

MAT 8210

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

82-Pb-199



123

Incident Energy (MeV)

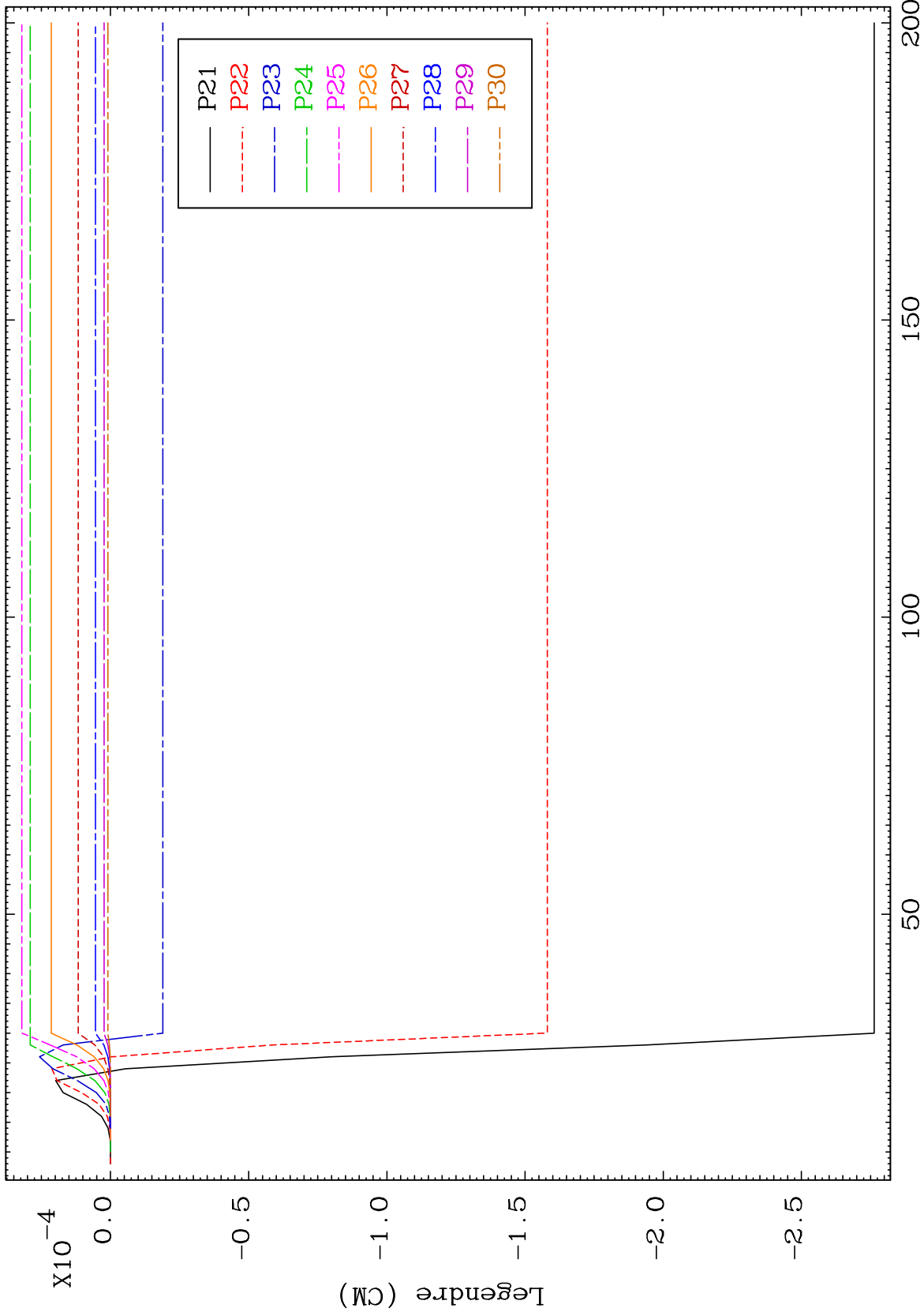
82-Pb-199

MAT 8210

MT= 77 (n,n') Level

82-Pb-199

Legendre Coefficients



124

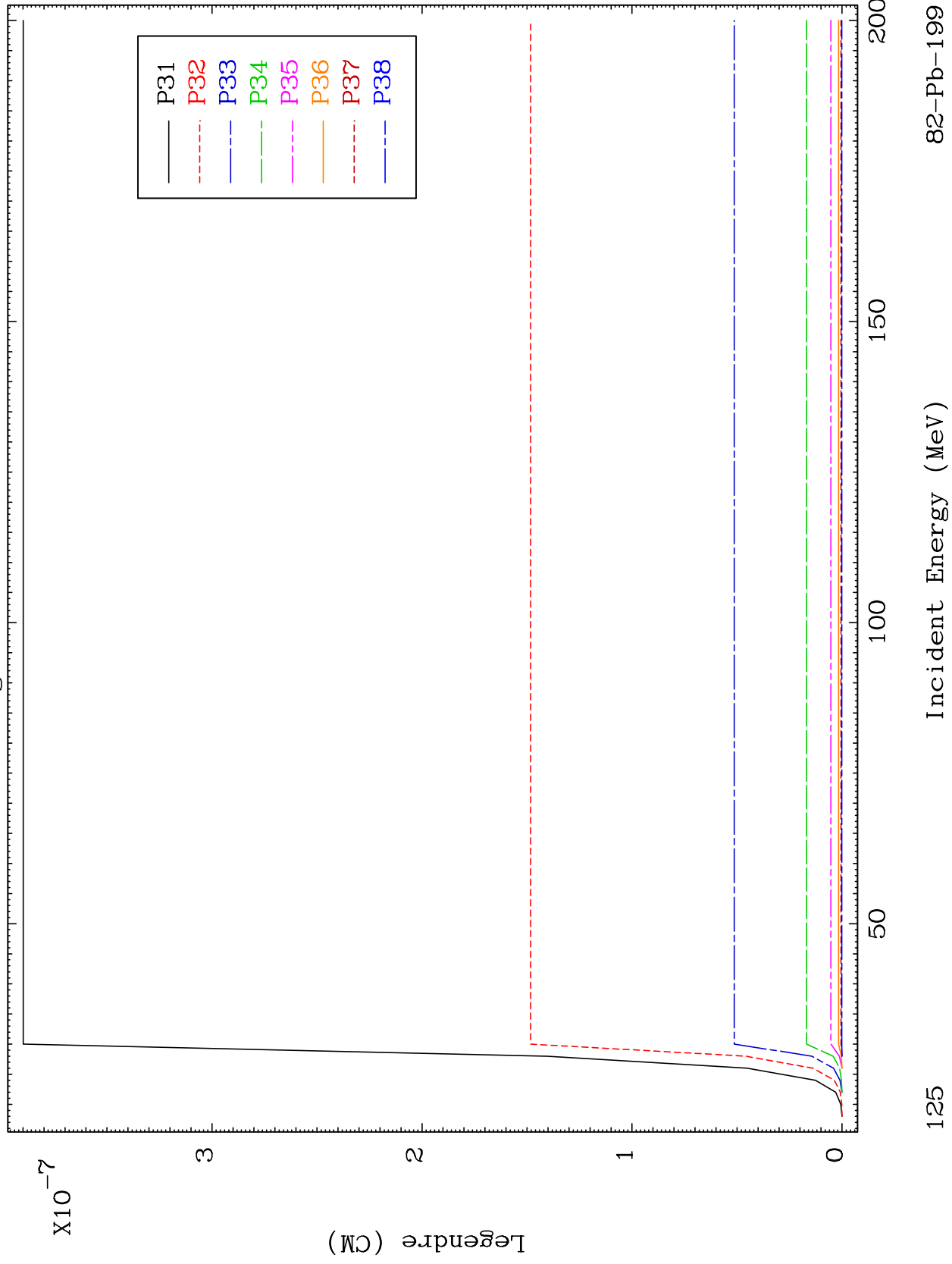
Incident Energy (MeV)

82-Pb-199

MAT 8210

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

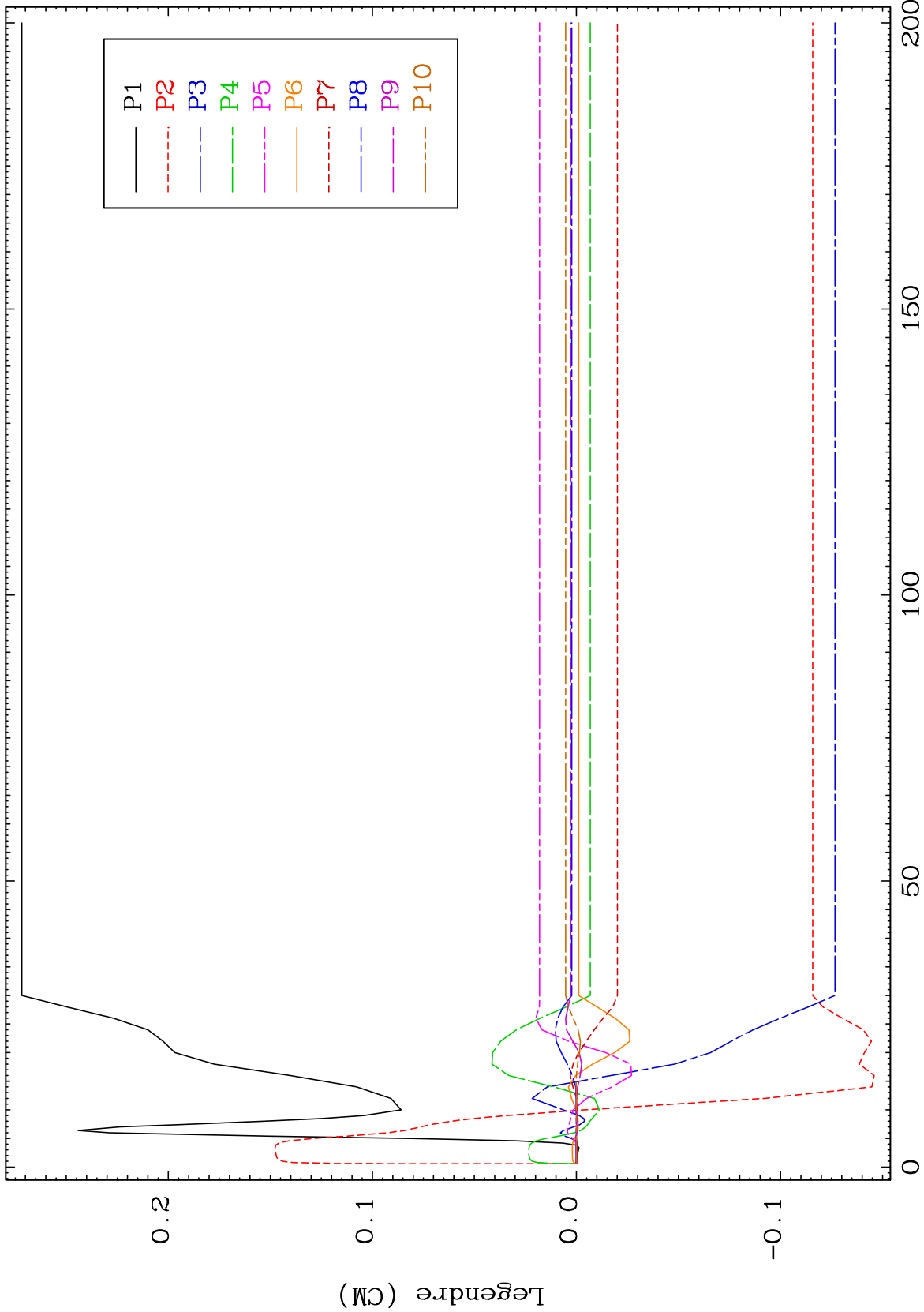
82-Pb-199



MAT 8210

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

82-Pb-199



126

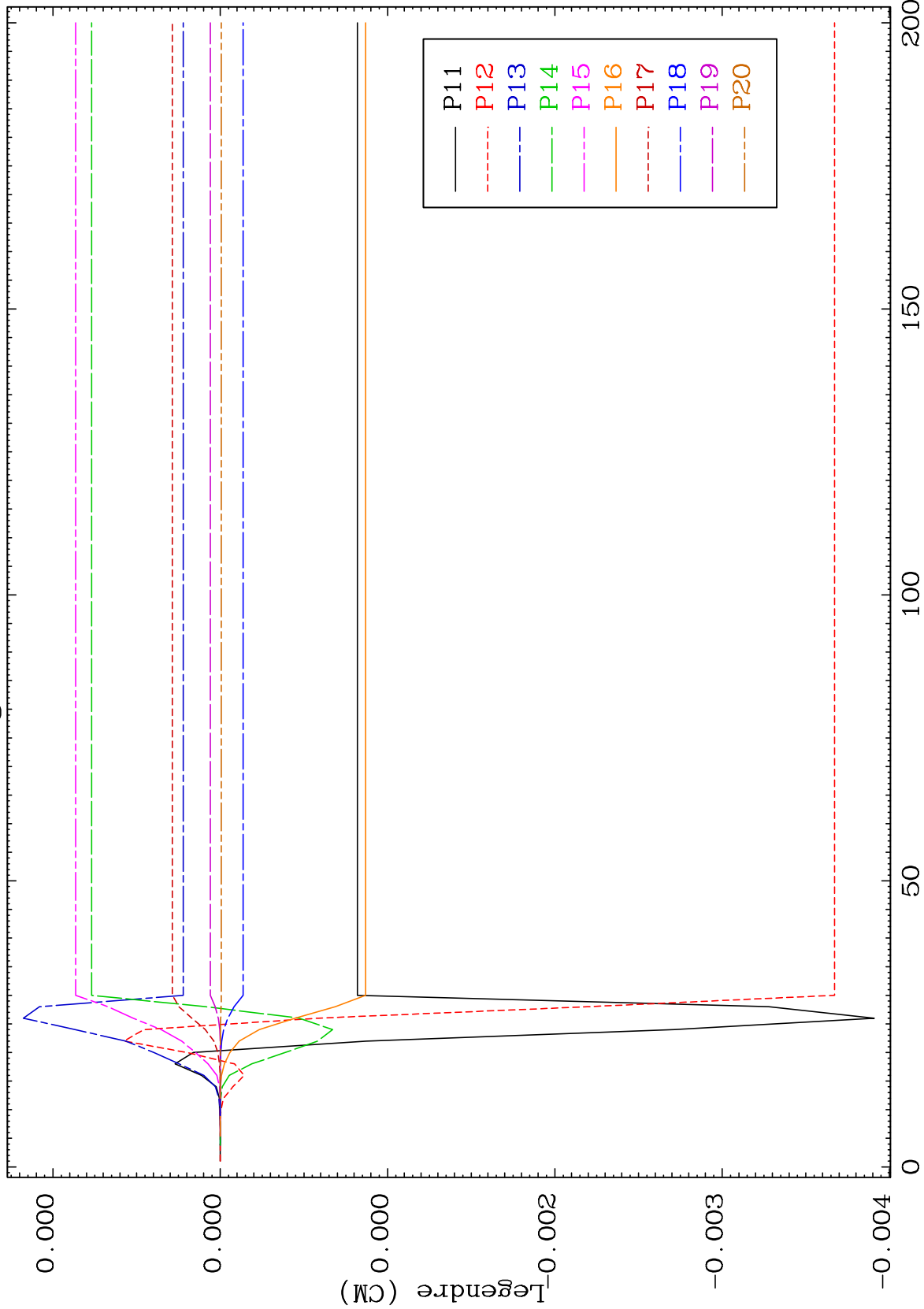
Incident Energy (MeV)

82-Pb-199

MAT 8210

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

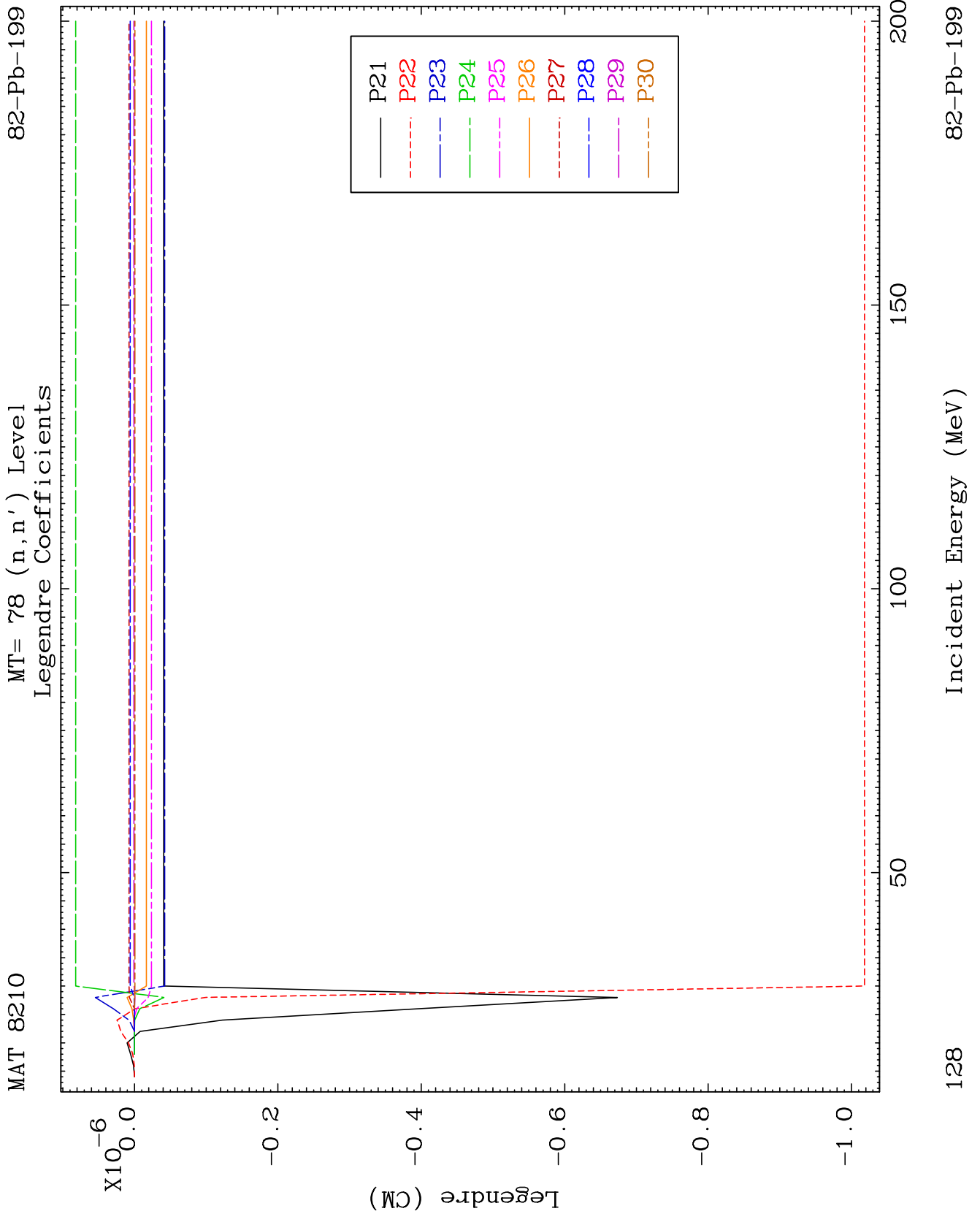
82-Pb-199

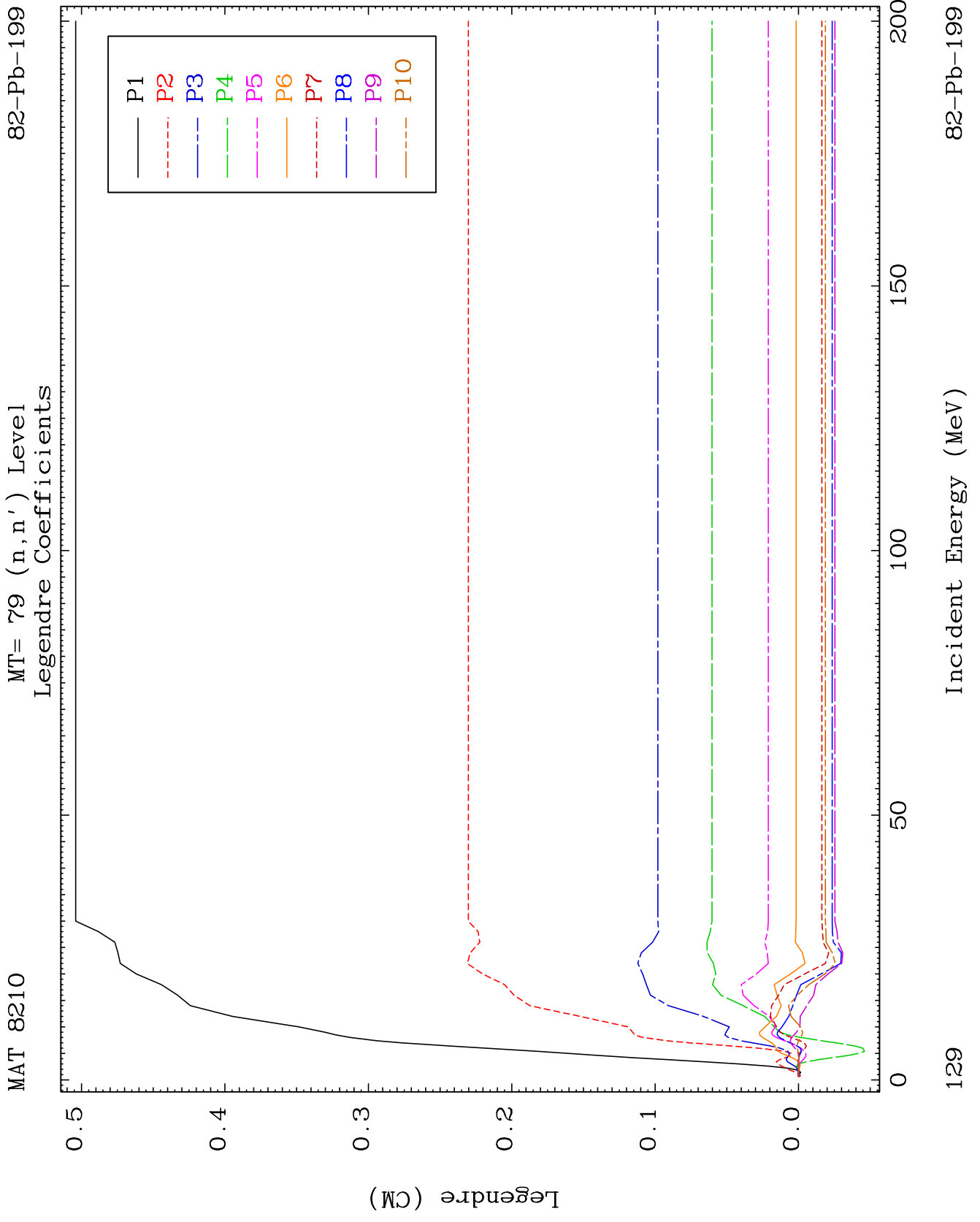


127

Incident Energy (MeV)

82-Pb-199

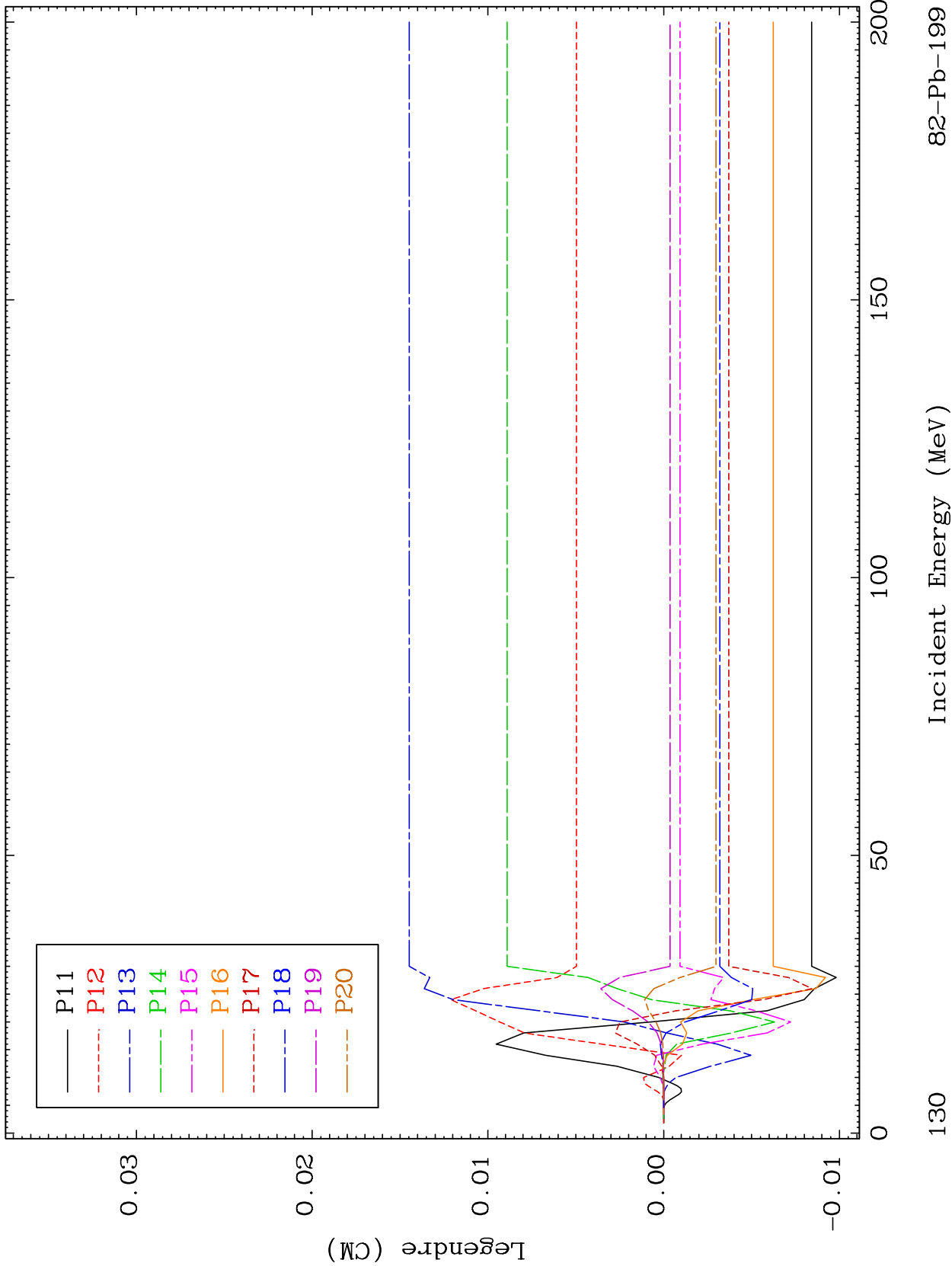




MAT 8210

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

82-Pb-199



82-Pb-199

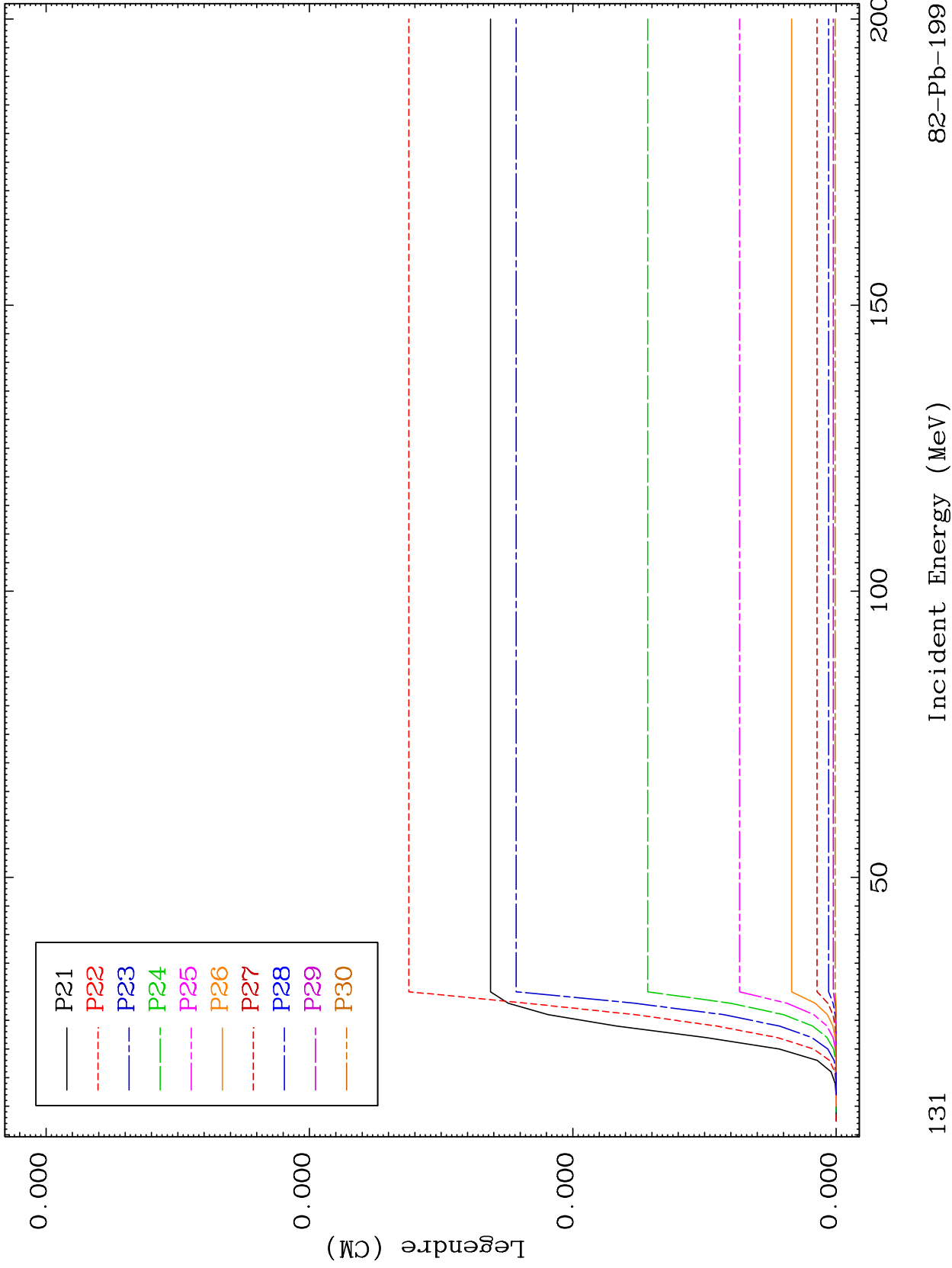
Incident Energy (MeV)

130

MAT 8210

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

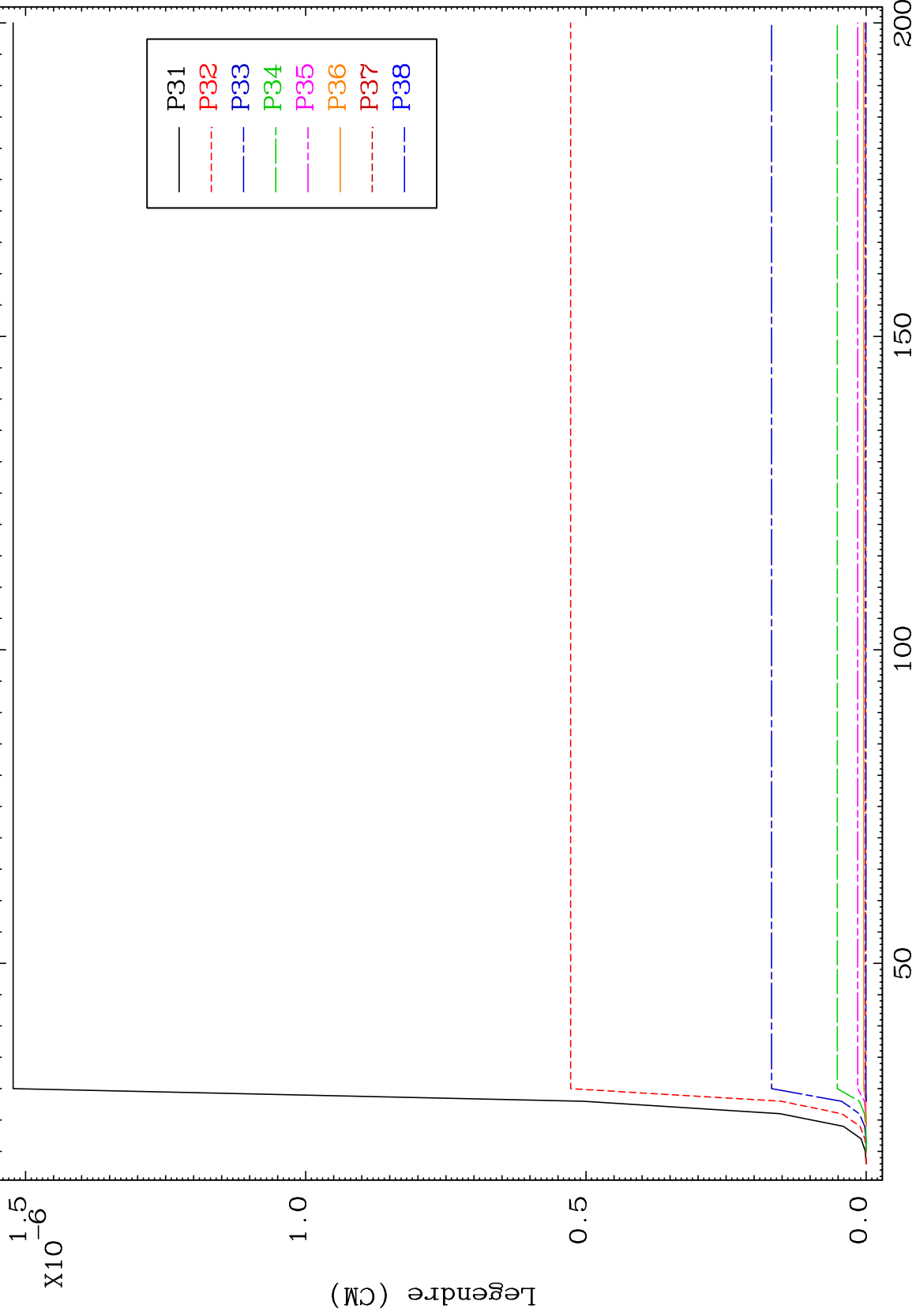
82-Pb-199



MAT 8210

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

82-Pb-199



132

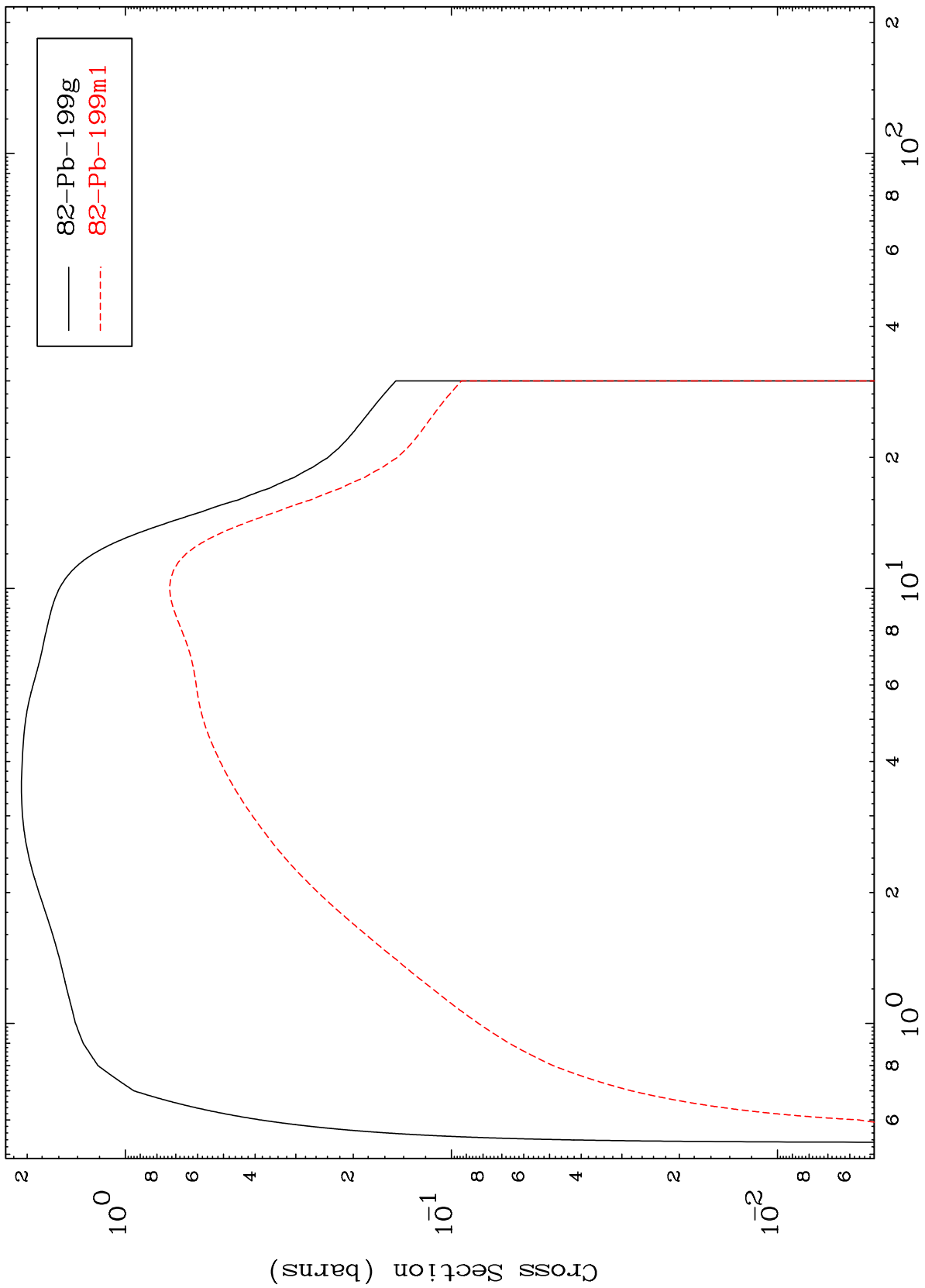
Incident Energy (MeV)

82-Pb-199

MAT 8210

82-Pb-199

Inelastic
Radionuclide Production Cross Section



82-Pb-199g
82-Pb-199m1

133

Incident Energy (MeV)

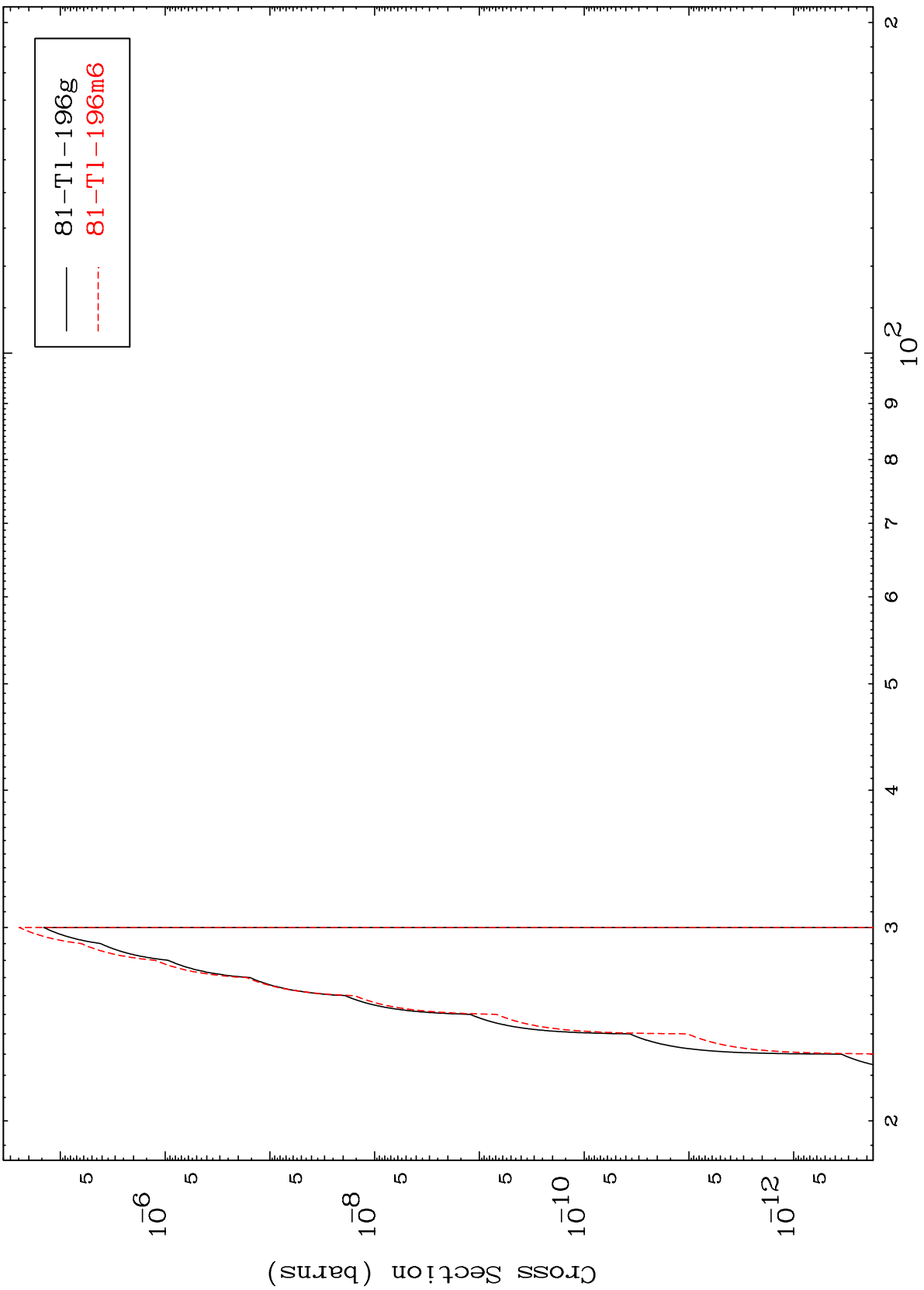
82-Pb-199

MAT 8210

(n,2n) d

82-Pb-199

Radionuclide Production Cross Section



81-Tl-196g
81-Tl-196m6

134

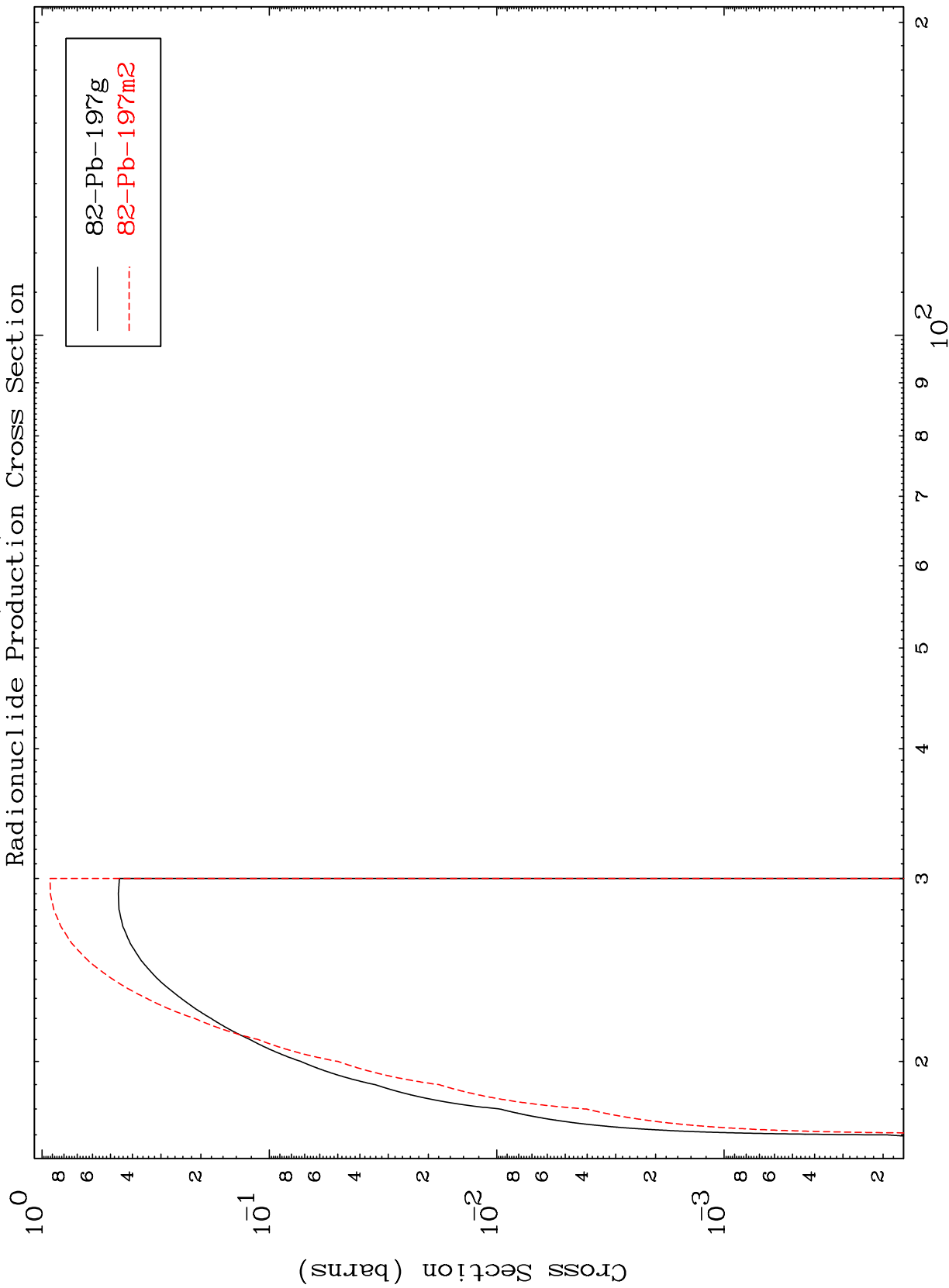
Incident Energy (MeV)

82-Pb-199

MAT 8210

82-Pb-199

(n,3n)
Radionuclide Production Cross Section



135

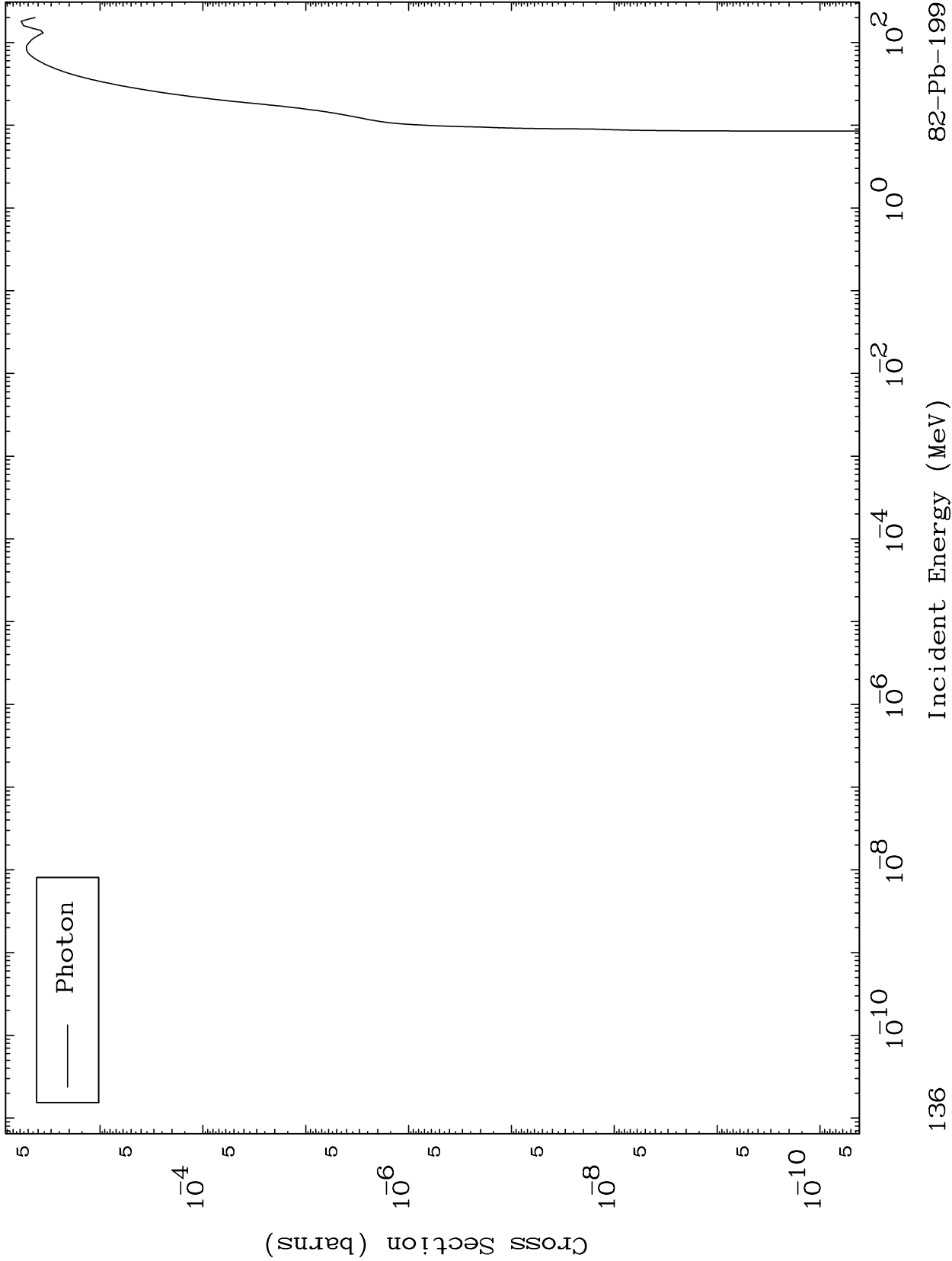
Incident Energy (MeV)

82-Pb-199

MAT 8210

Fission
Radionuclide Production Cross Section

82-Pb-199



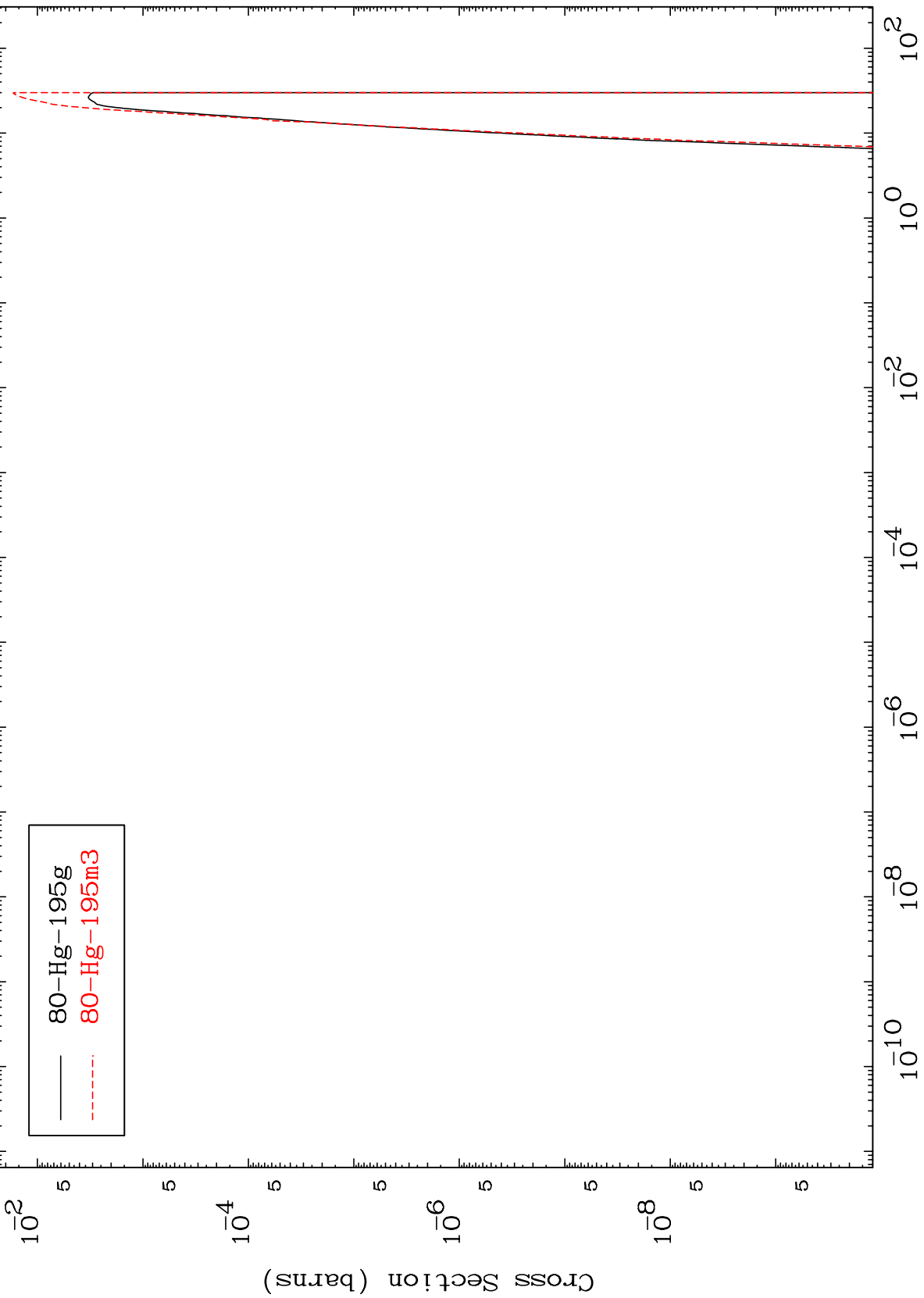
82-Pb-199

MAT 8210

$(n, n') \alpha$

82-Pb-199

Radionuclide Production Cross Section

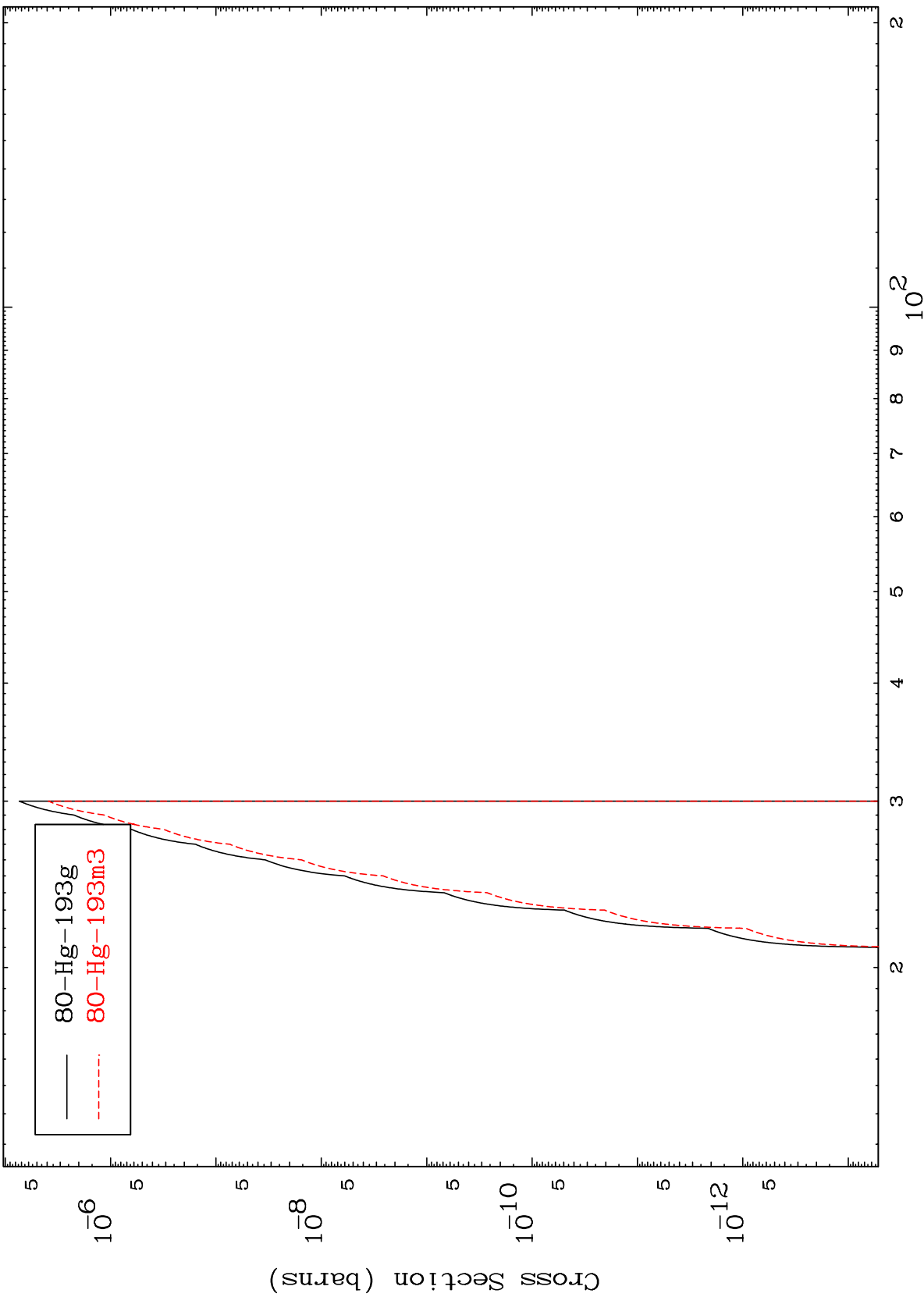


137

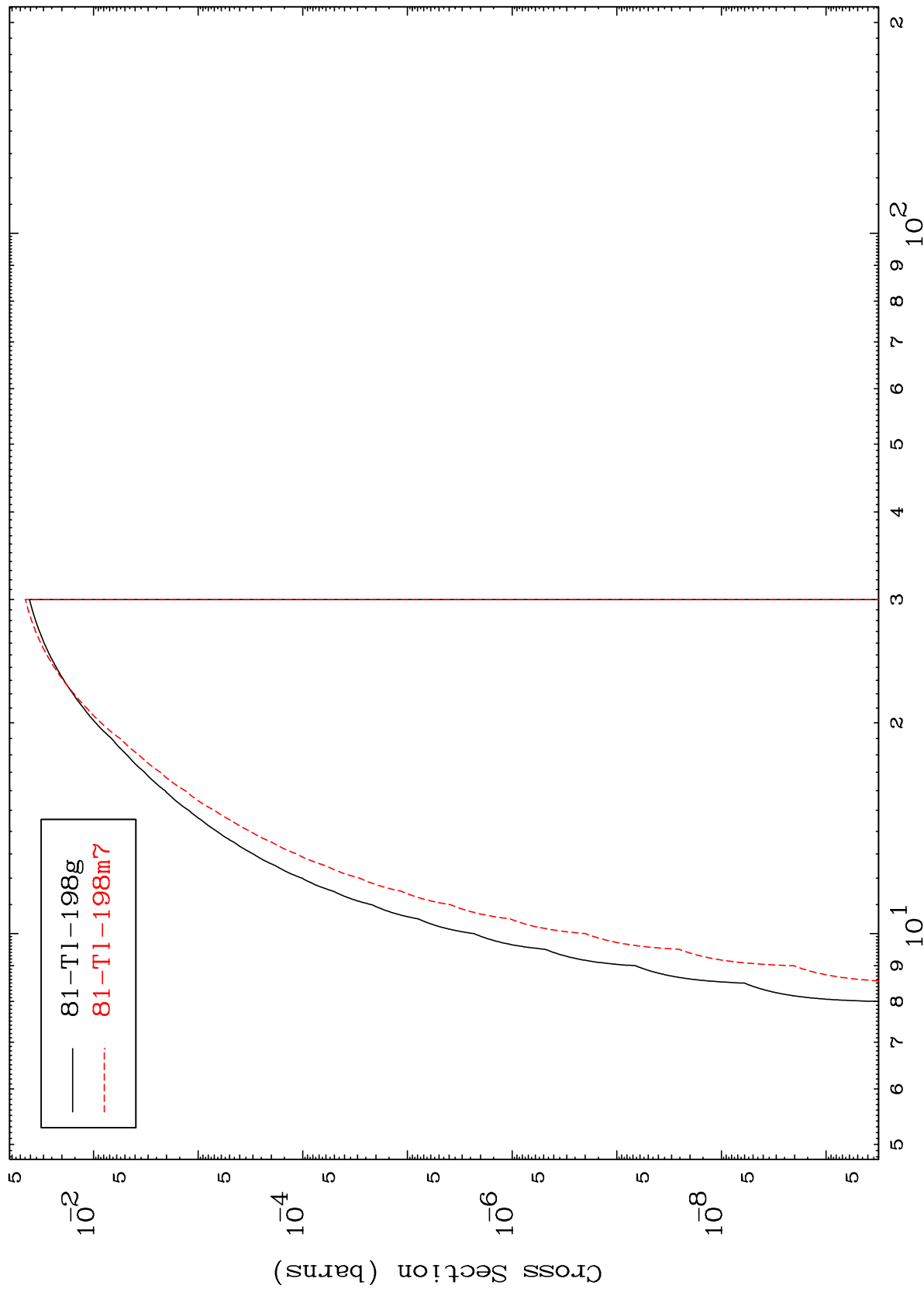
Incident Energy (MeV)

82-Pb-199

Radionuclide Production Cross Section



Radionuclide Production Cross Section



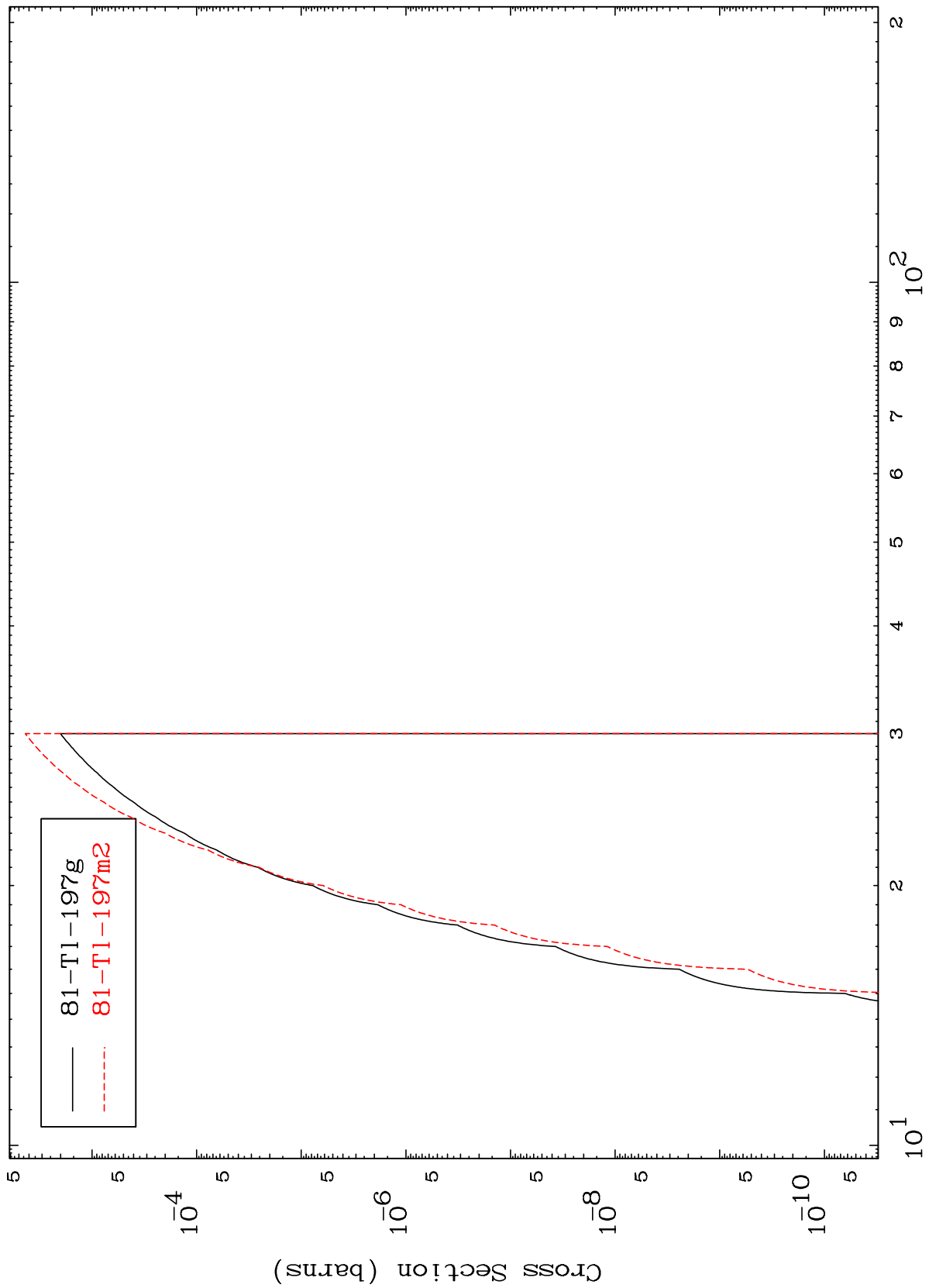
81-Tl-198g
81-Tl-198m7

MAT 8210

(n,n') d

82-Pb-199

Radionuclide Production Cross Section



Incident Energy (MeV)

82-Pb-199

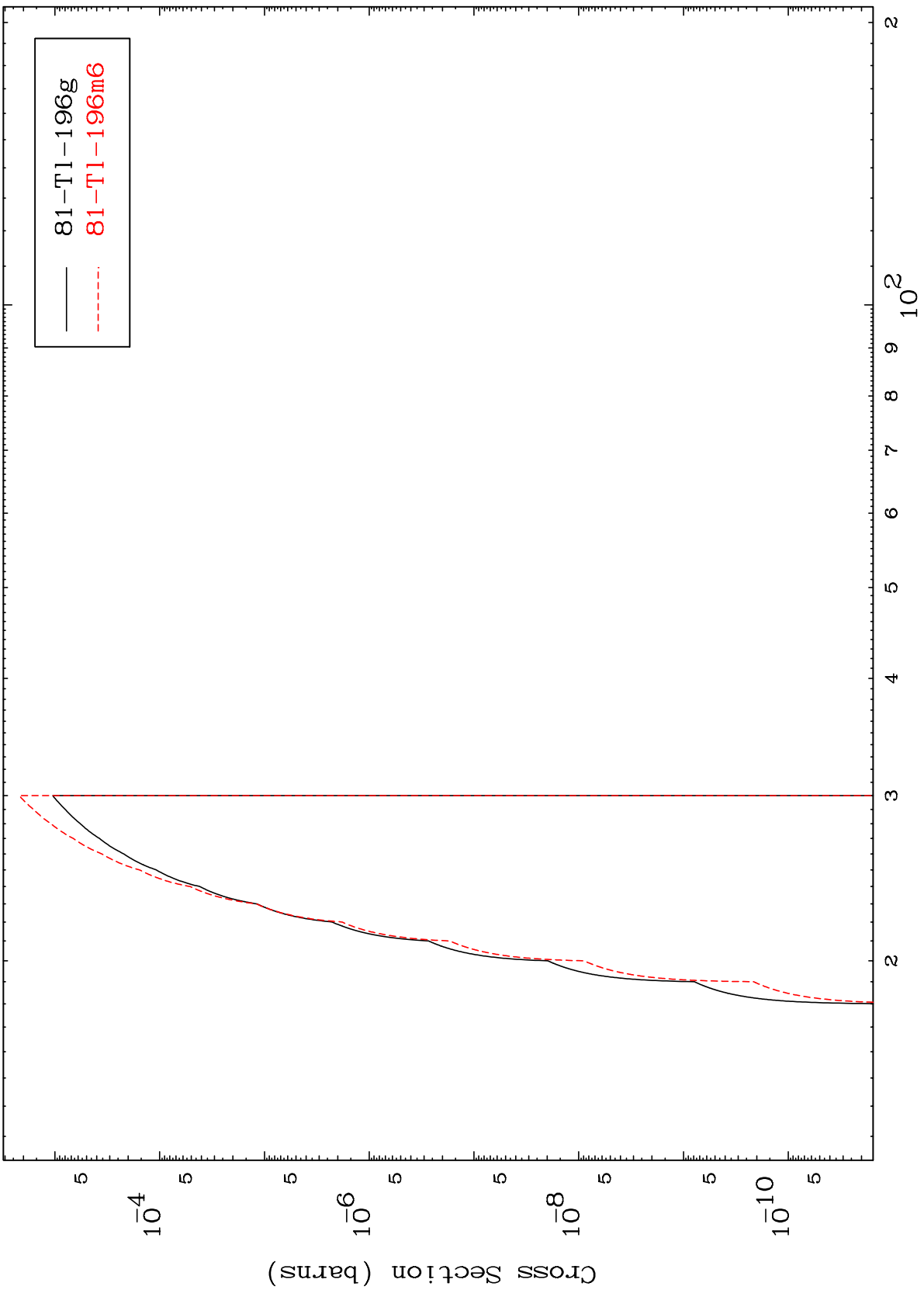
140

MAT 8210

(n,n') t

82-Pb-199

Radionuclide Production Cross Section

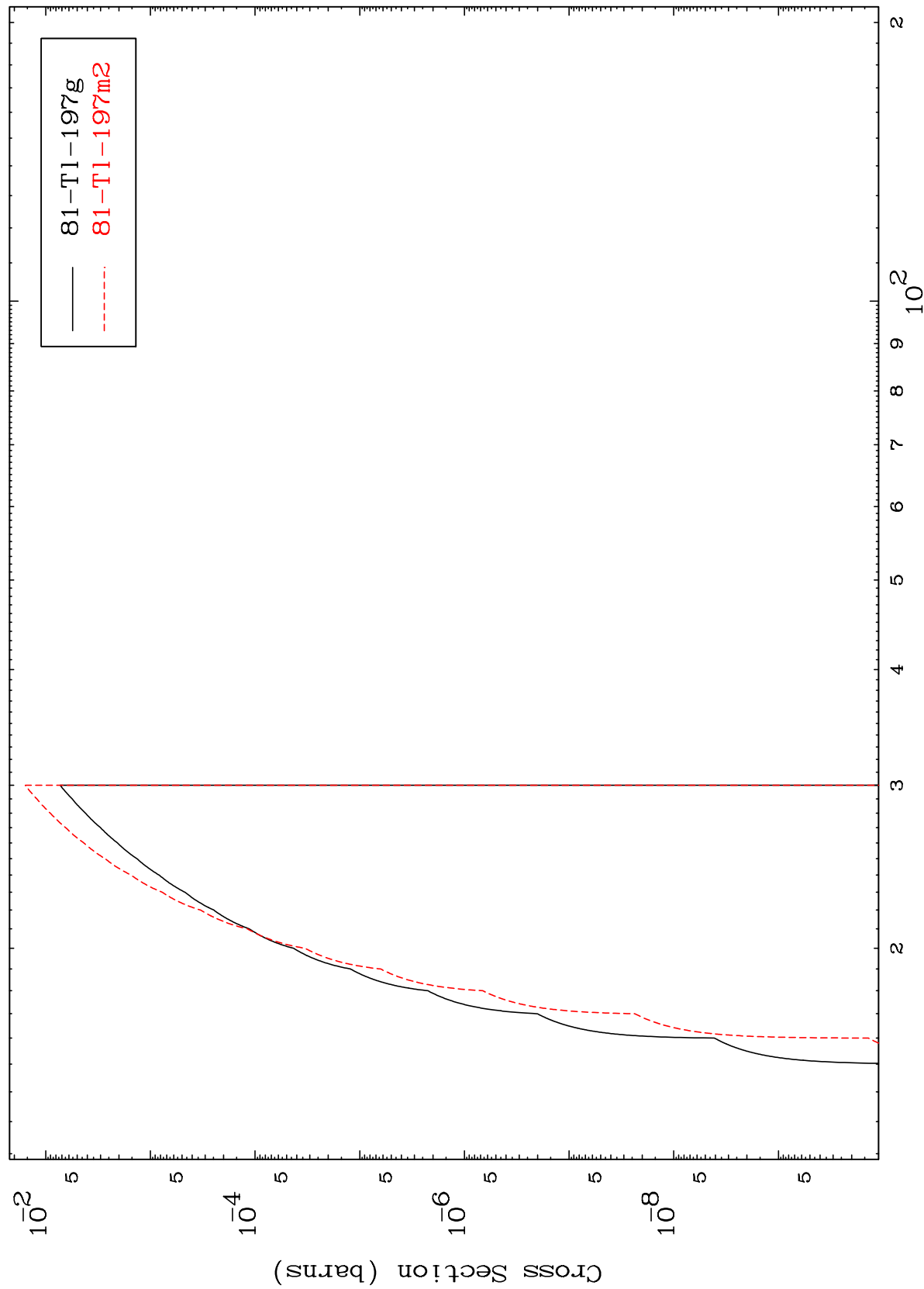


141

Incident Energy (MeV)

82-Pb-199

Radionuclide Production Cross Section



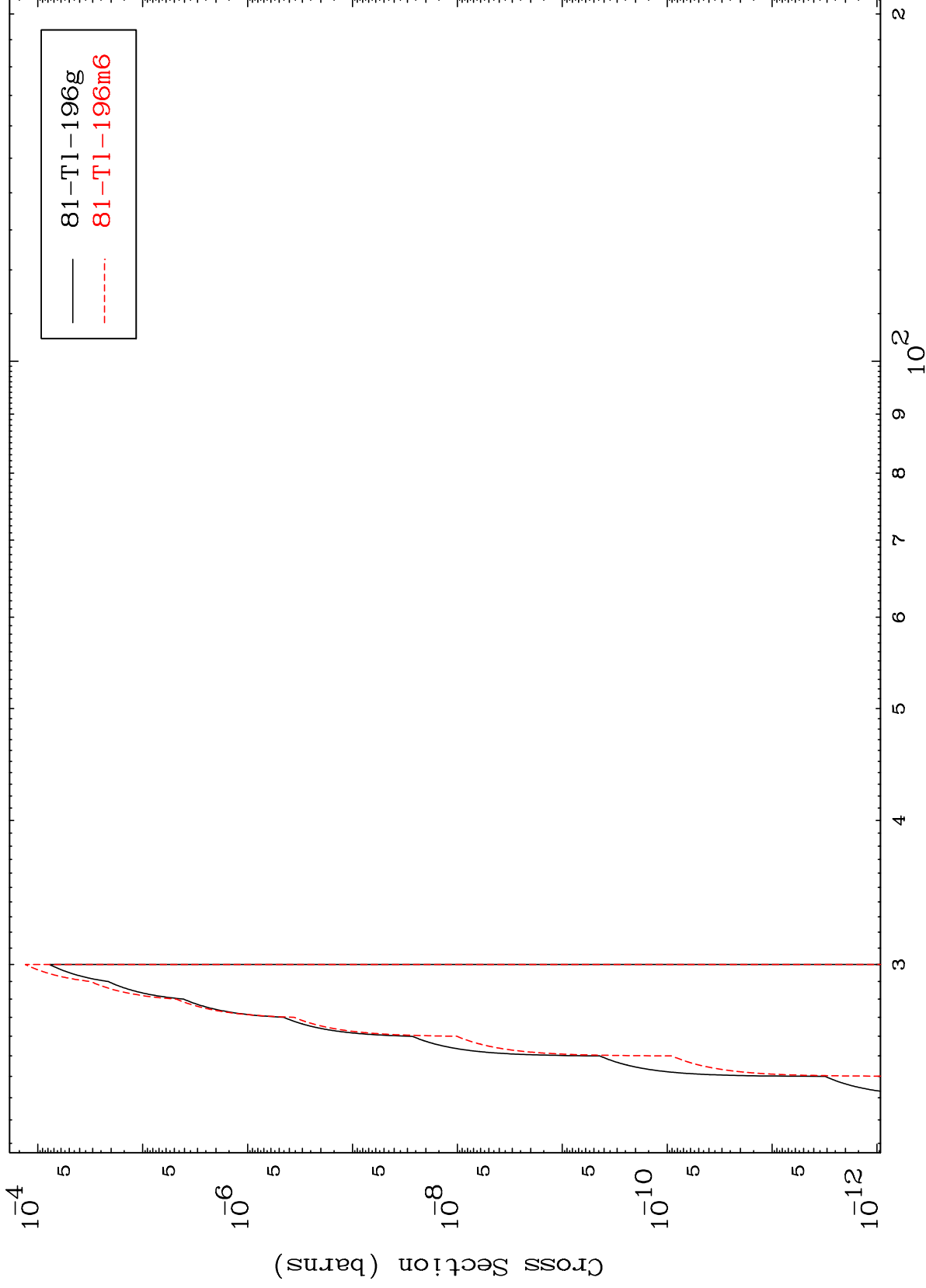
81-Tl-197g
81-Tl-197m2

MAT 8210

(n,3n) p

82-Pb-199

Radionuclide Production Cross Section



143

Incident Energy (MeV)

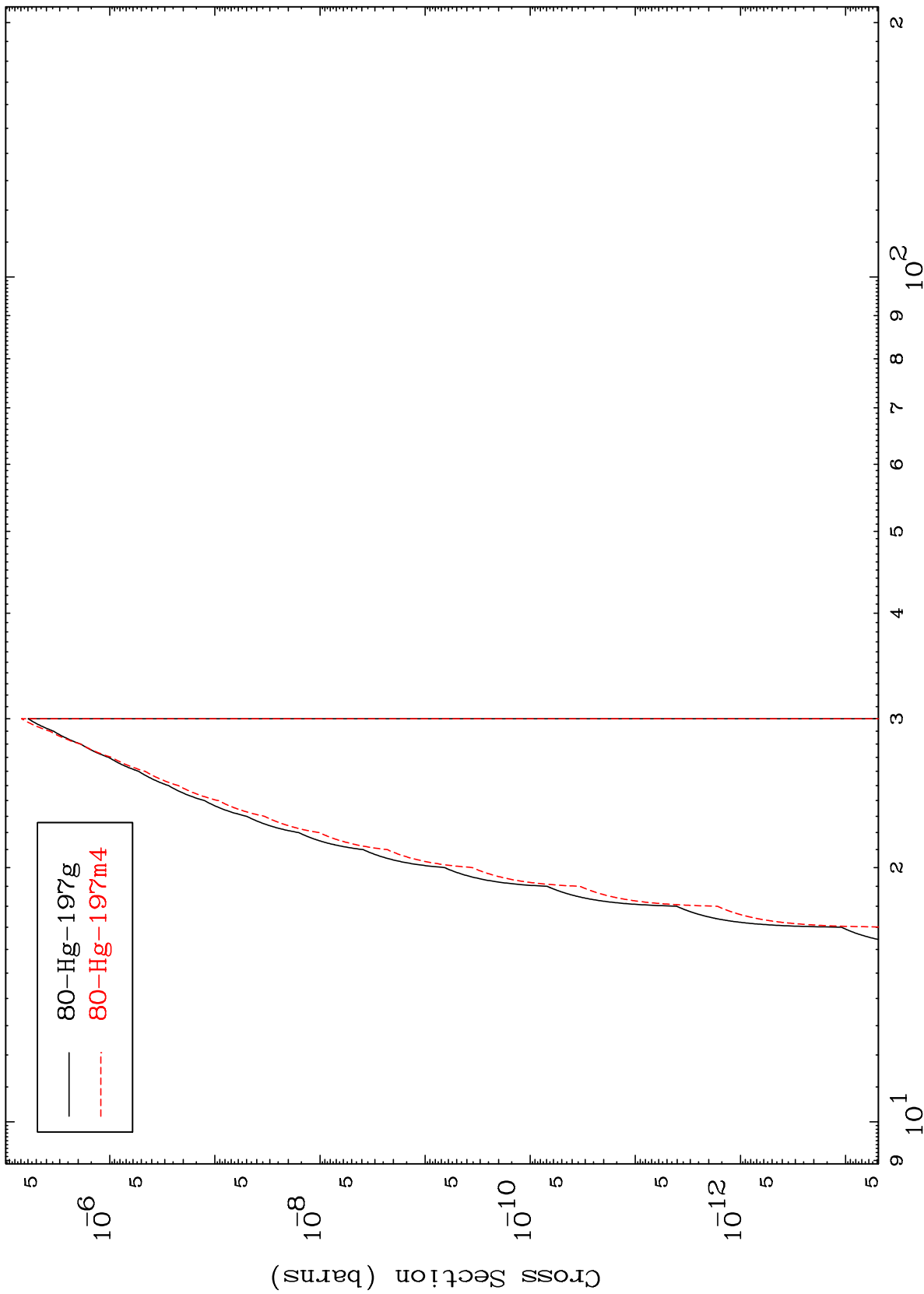
82-Pb-199

MAT 8210

(n,2n) p

82-Pb-199

Radionuclide Production Cross Section



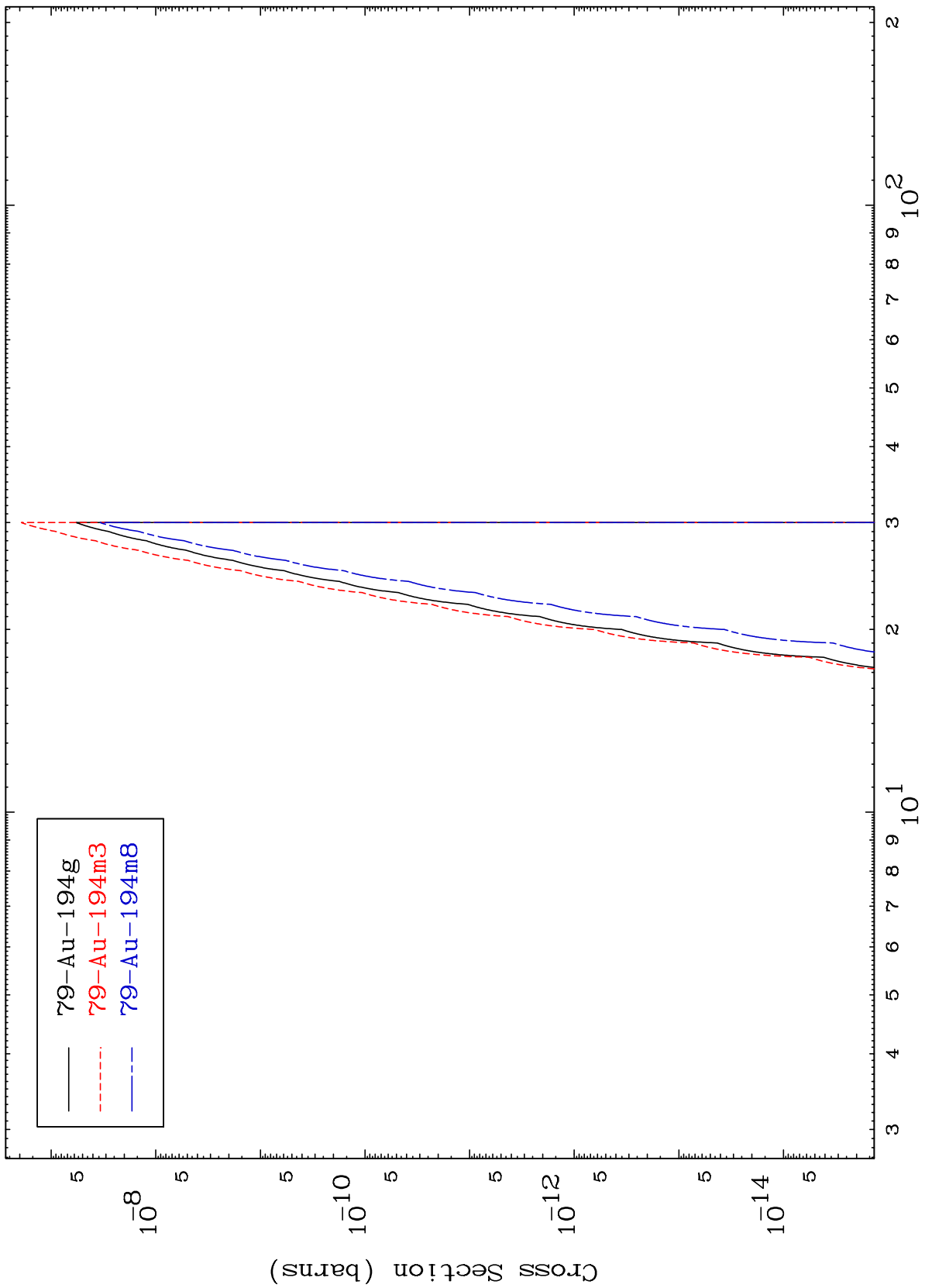
144

Incident Energy (MeV)

82-Pb-199

(n,n') p α

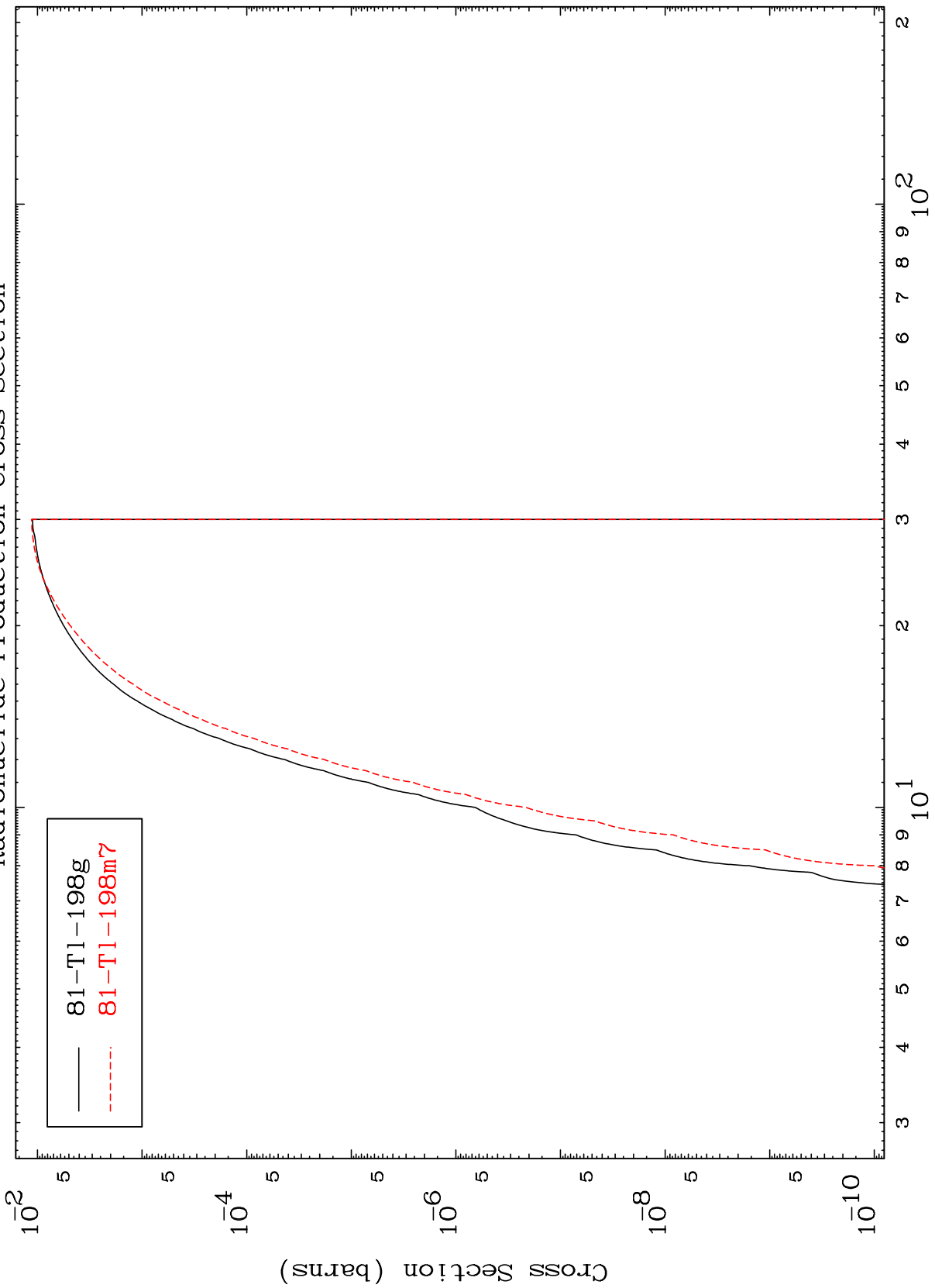
Radionuclide Production Cross Section



MAT 8210

82-Pb-199

(n,d)
Radionuclide Production Cross Section



— 81-Tl-198g
- - - 81-Tl-198m7

146

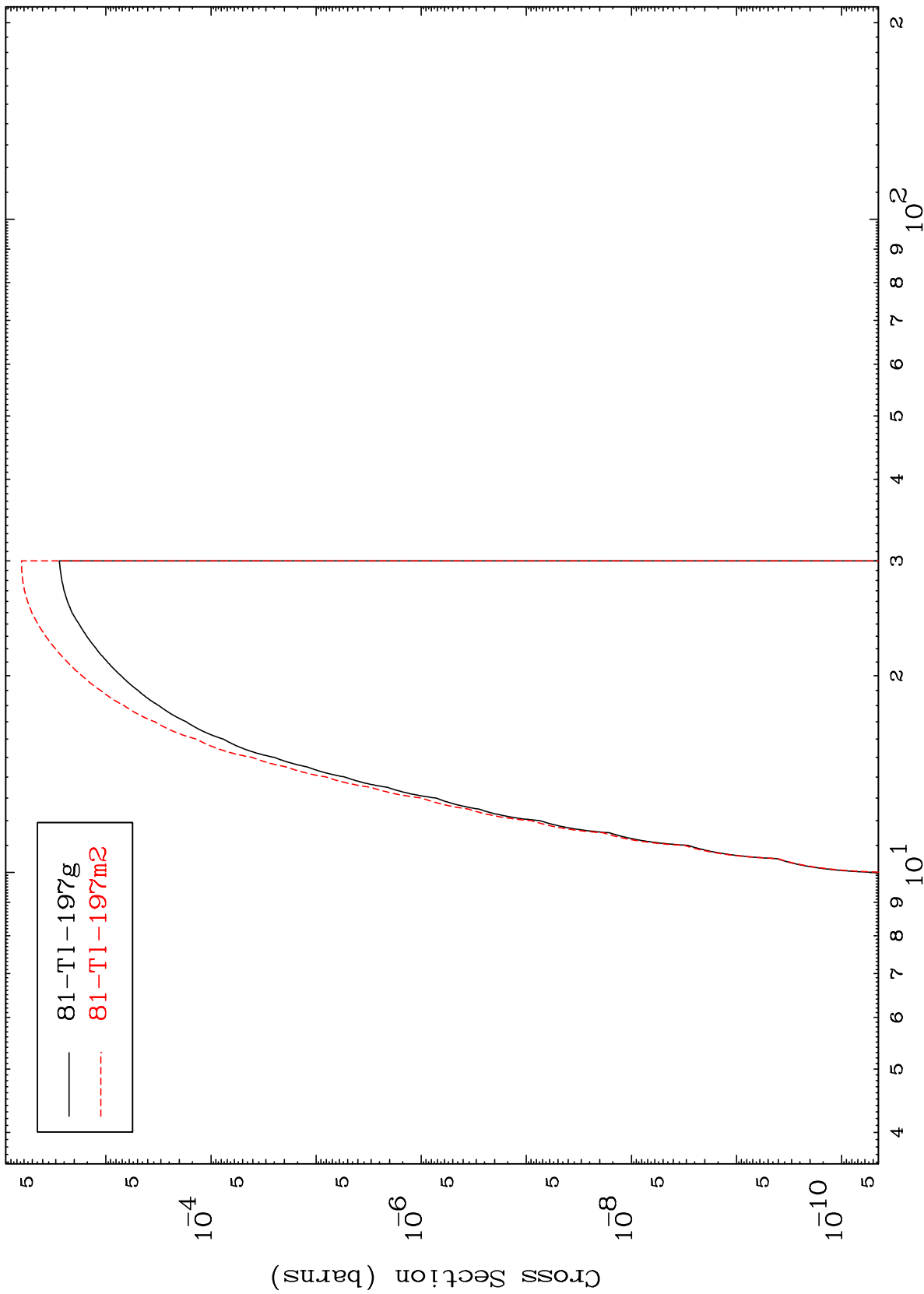
Incident Energy (MeV)

82-Pb-199

MAT 8210

82-Pb-199

(n, t)
Radionuclide Production Cross Section



147

82-Pb-199

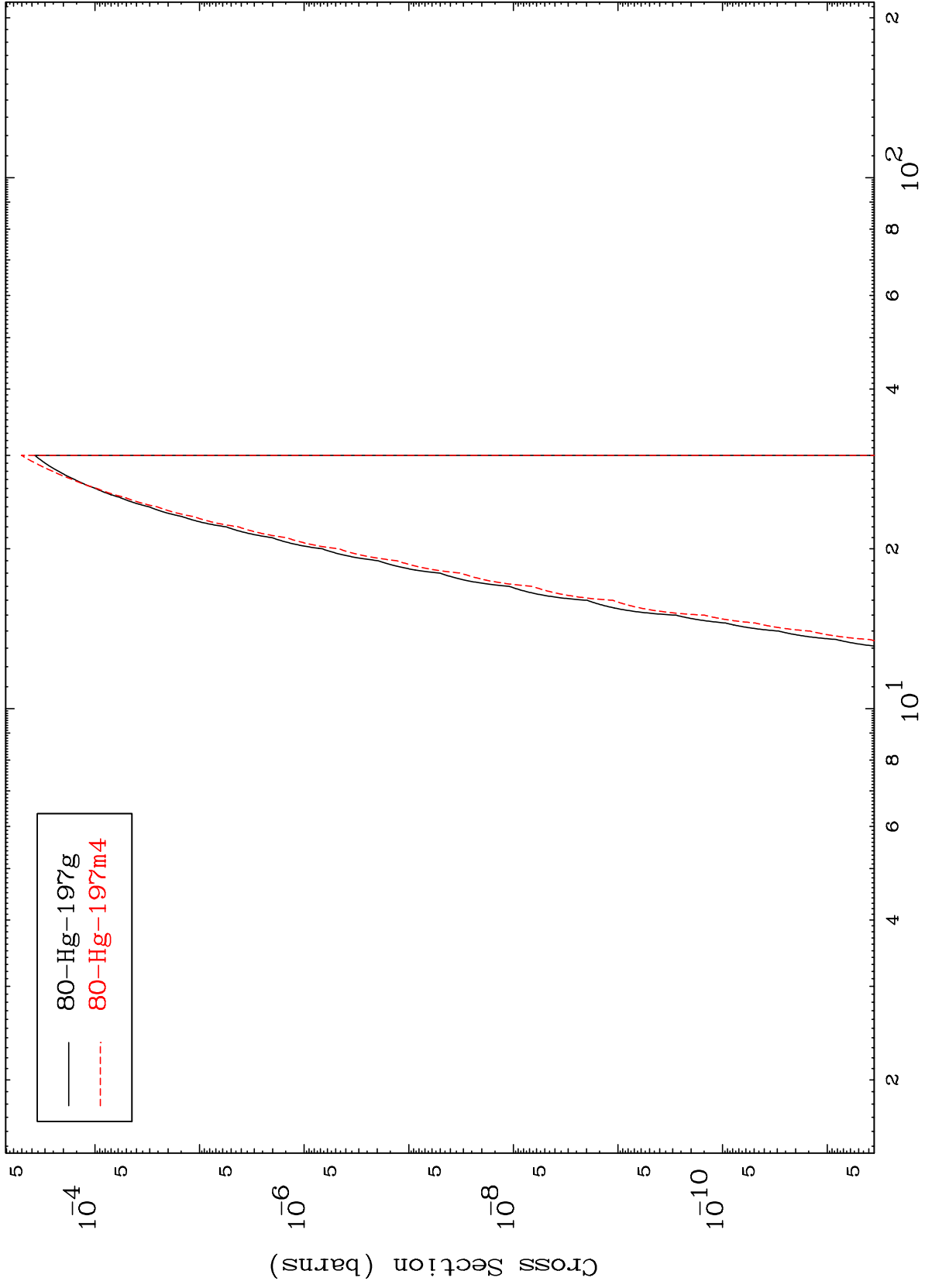
Incident Energy (MeV)

MAT 8210

(n,He-3)

82-Pb-199

Radionuclide Production Cross Section



80-Hg-197g
80-Hg-197m4

148

Incident Energy (MeV)

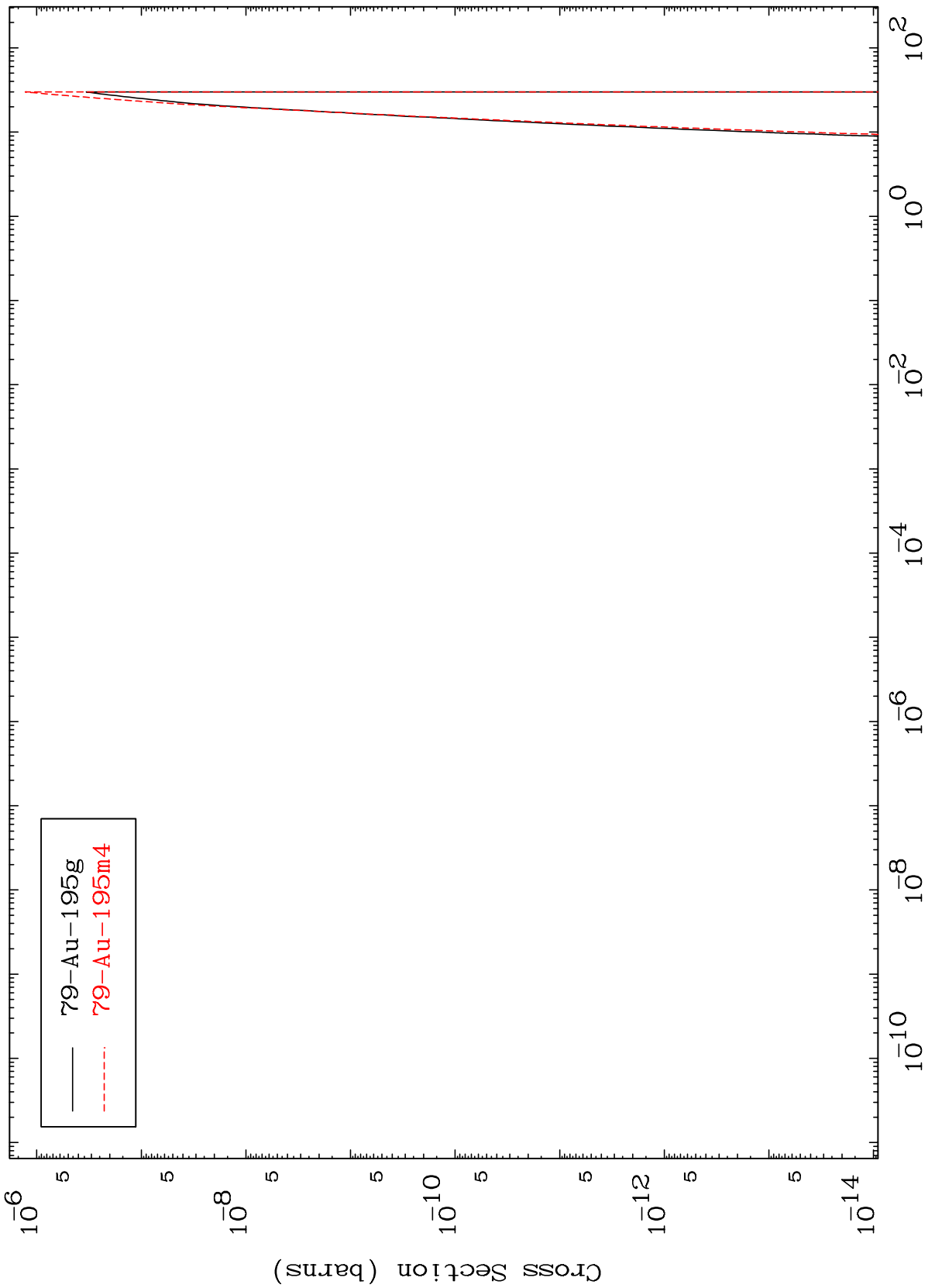
82-Pb-199

MAT 8210

(n,p) α

82-Pb-199

Radionuclide Production Cross Section



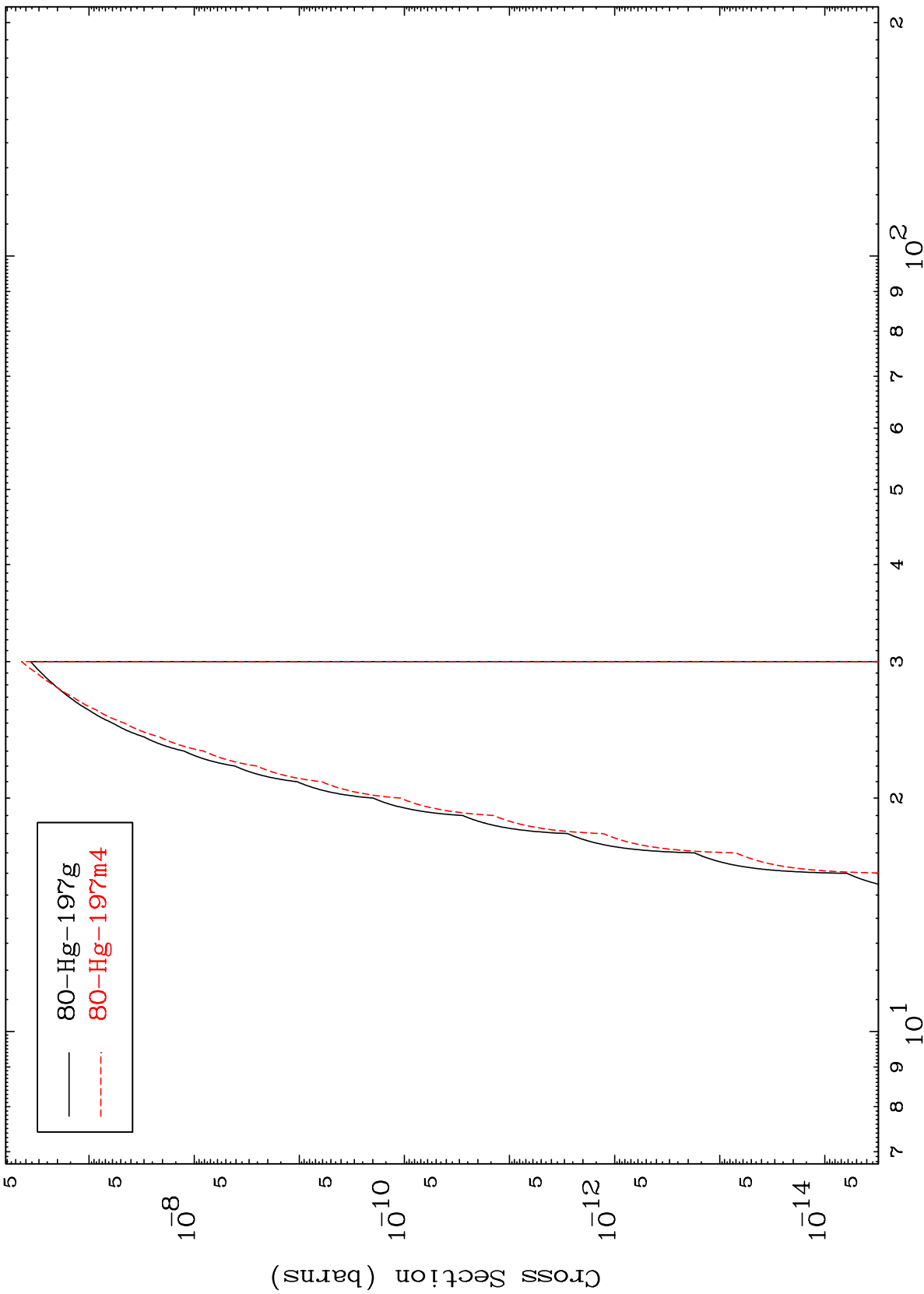
79-Au-195g
79-Au-195m4

MAT 8210

(n,p) d

82-Pb-199

Radionuclide Production Cross Section



150

Incident Energy (MeV)

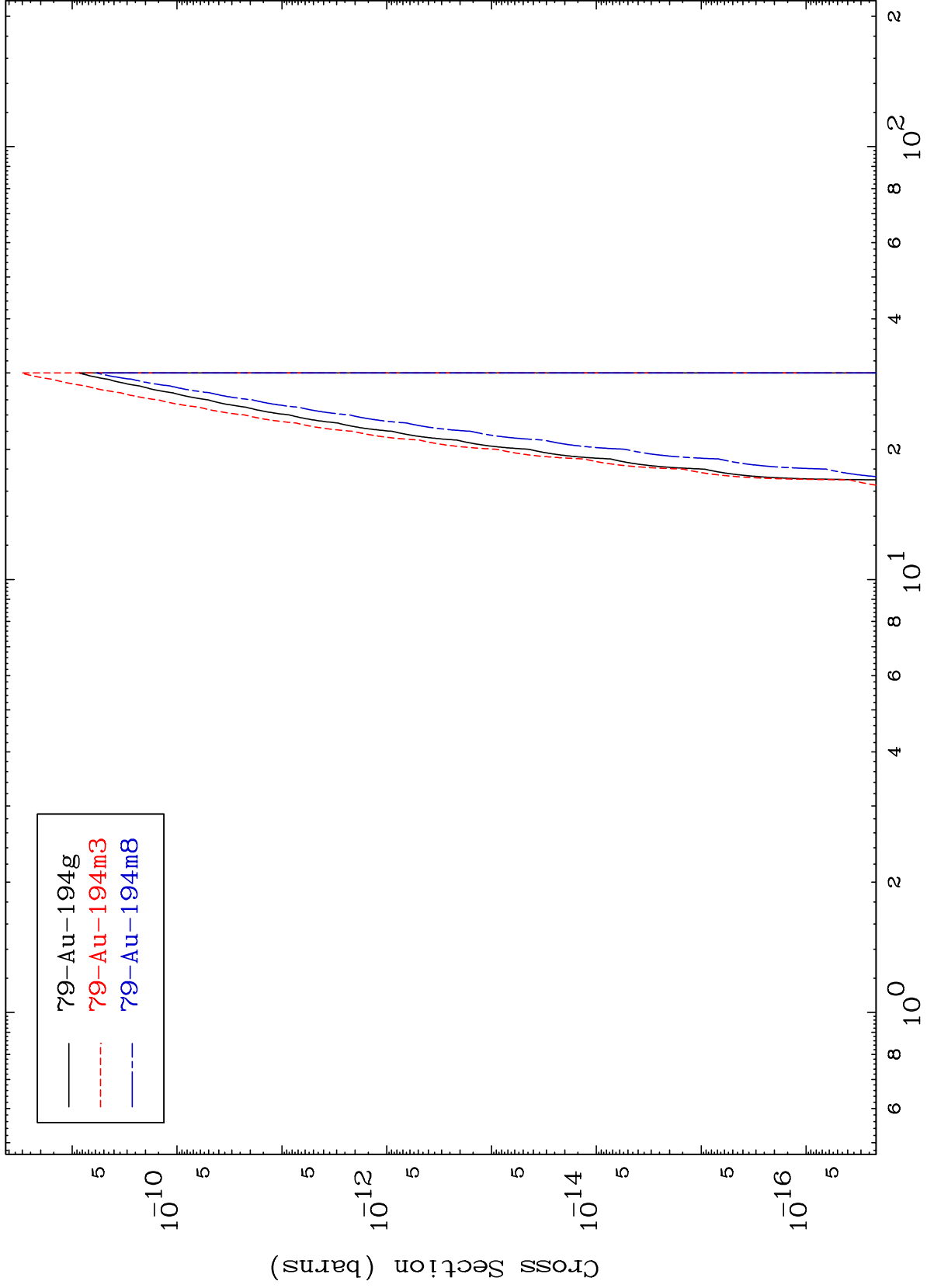
82-Pb-199

MAT 8210

(n,d) α

82-Pb-199

Radionuclide Production Cross Section



151

Incident Energy (MeV)

82-Pb-199