

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

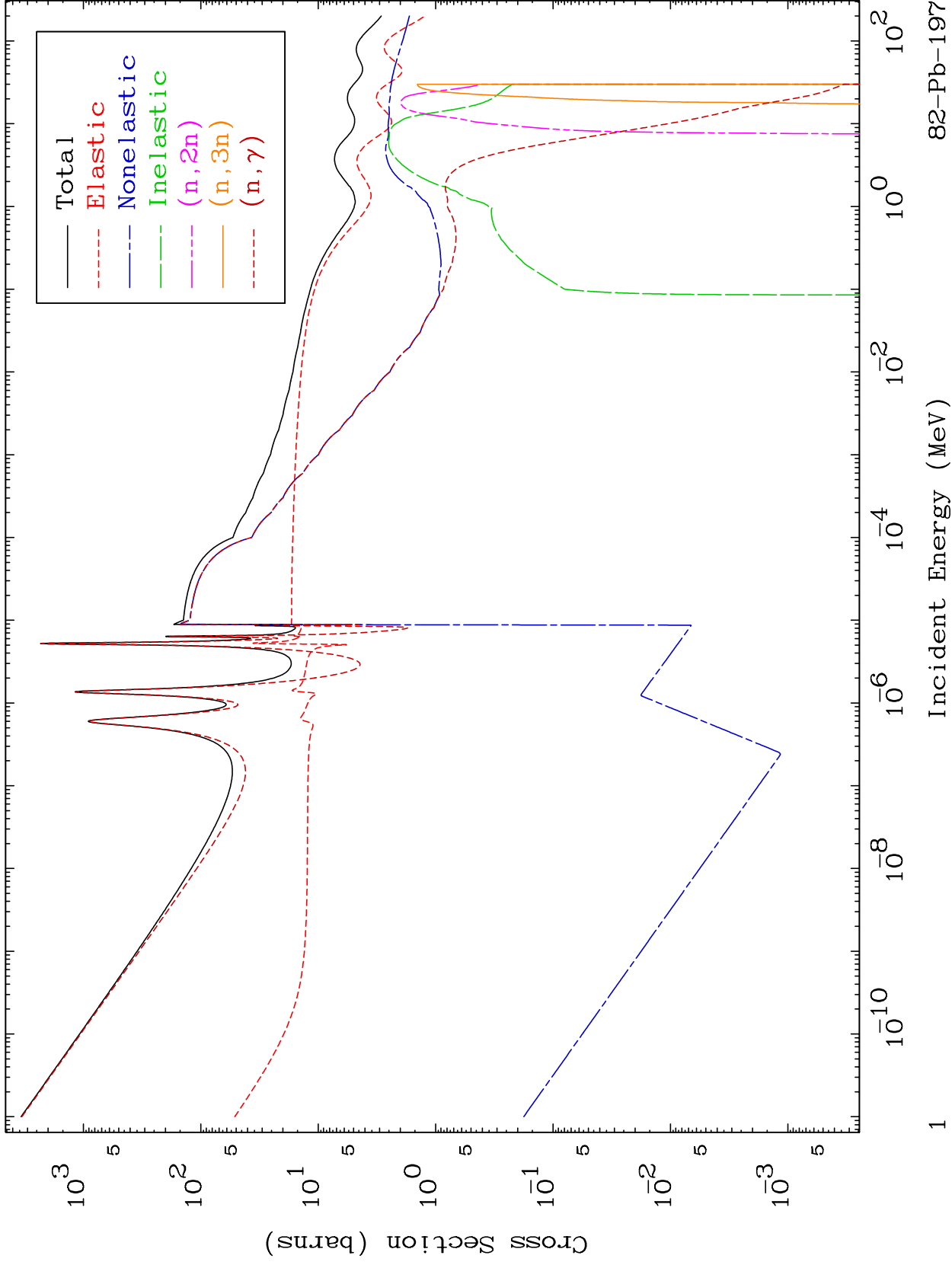
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 8204

Neutron Major  
293 Kelvin Cross Sections

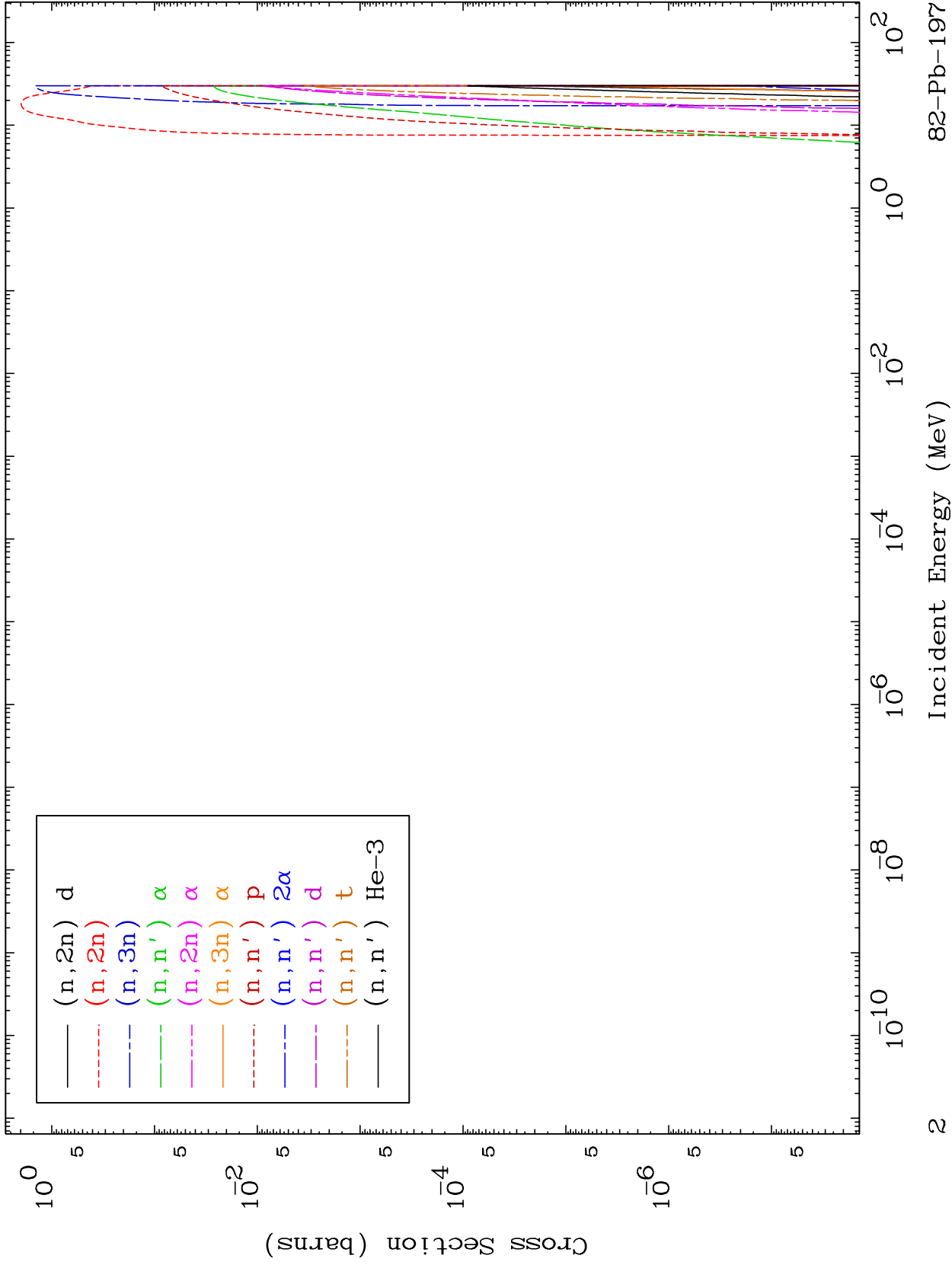
82-Pb-197



MAT 8204

Neutron Absorption  
293 Kelvin Cross Sections

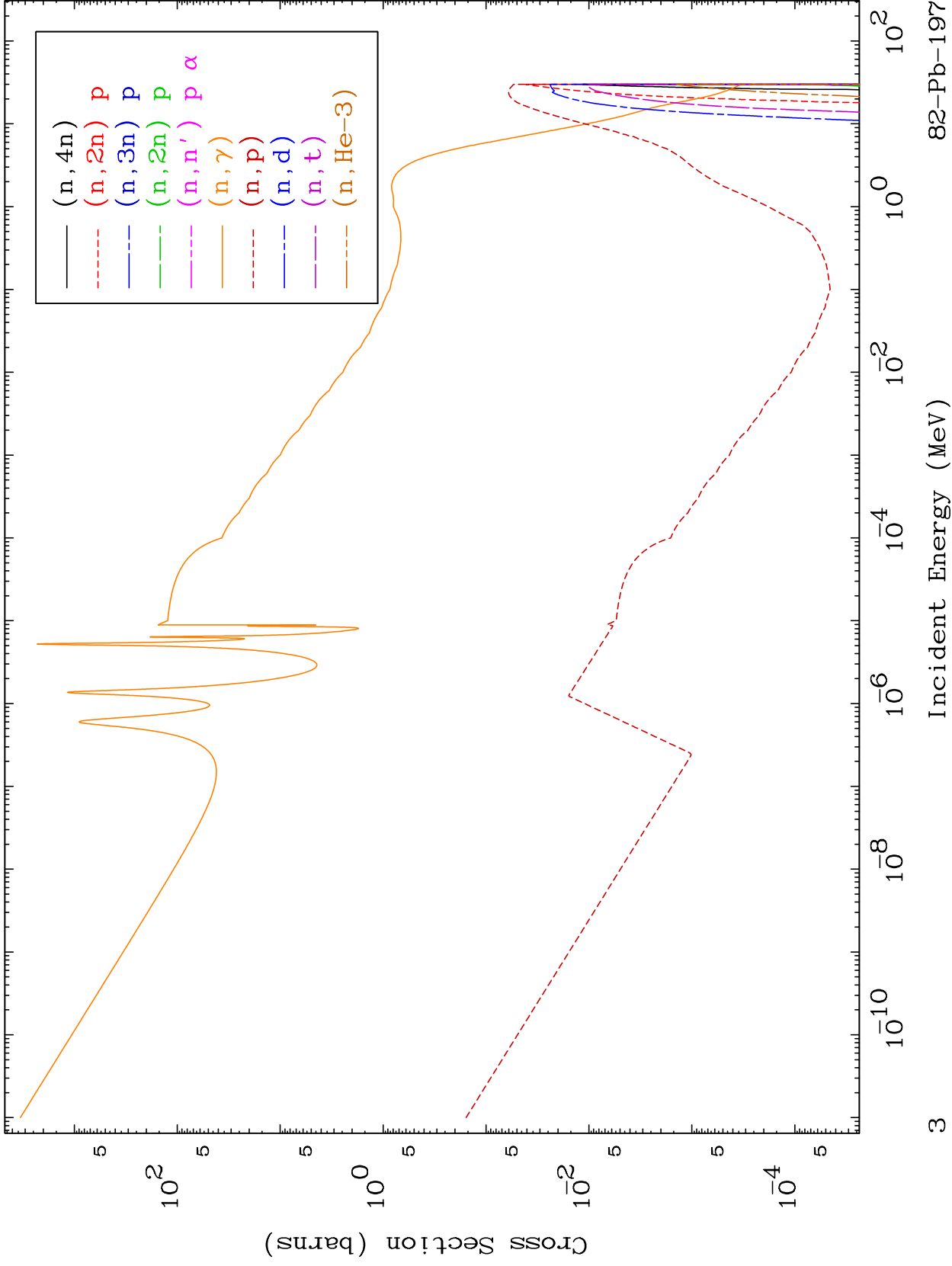
82-Pb-197



MAT 8204

Neutron Absorption  
293 Kelvin Cross Sections

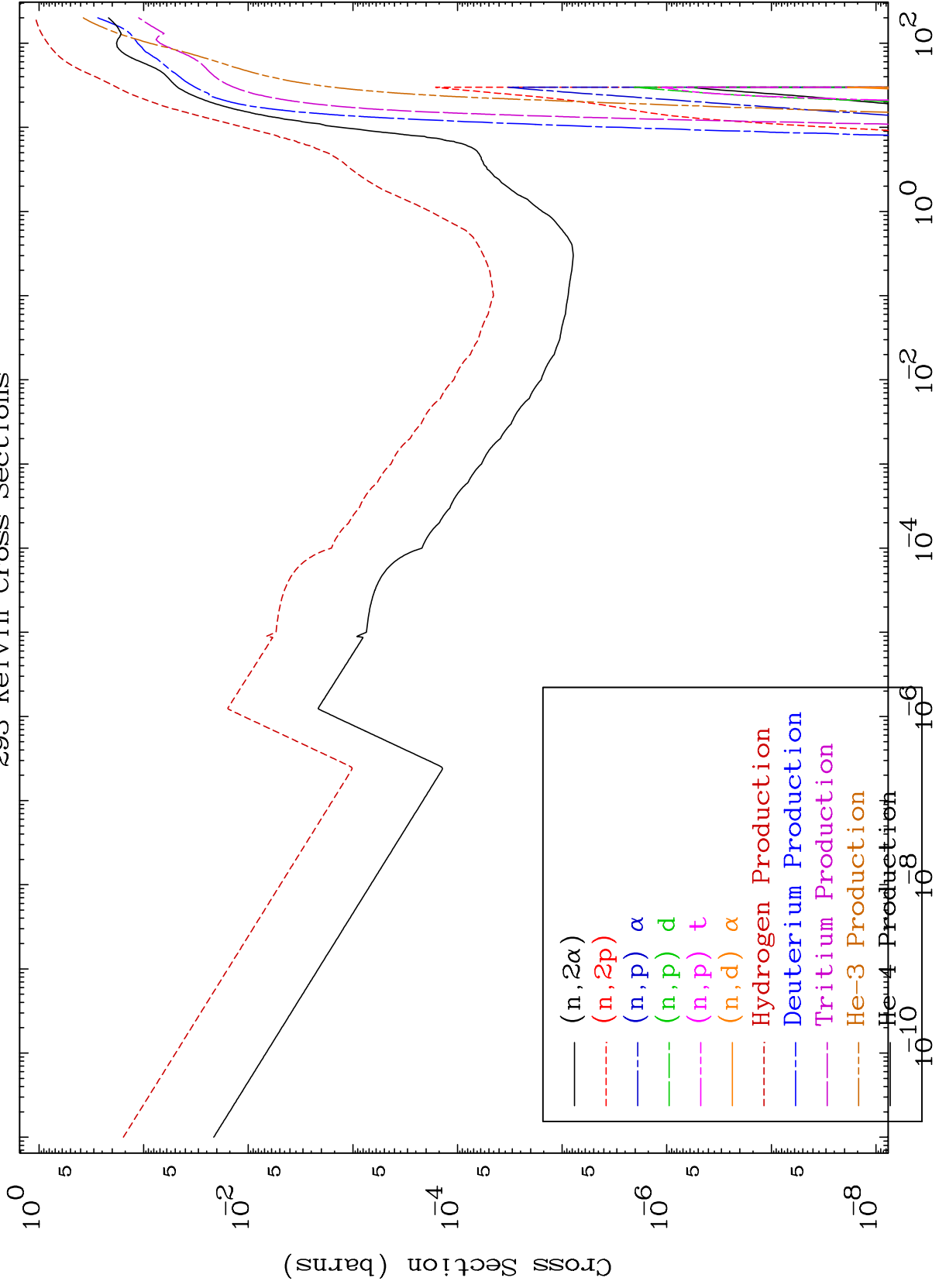
82-Pb-197



MAT 8204

Neutron Absorption  
293 Kelvin Cross Sections

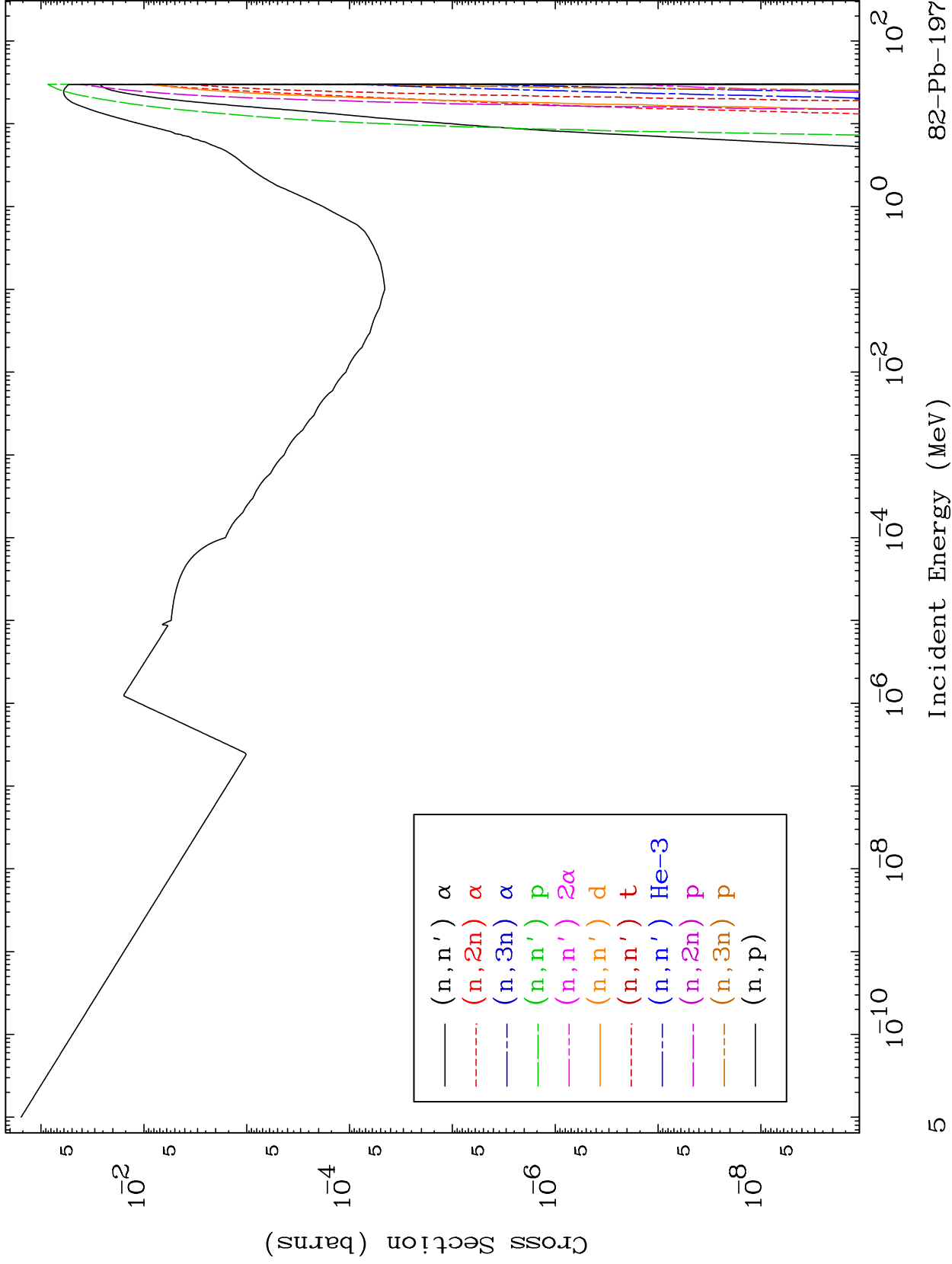
82-Pb-197



MAT 8204

Charged Particle  
293 Kelvin Cross Sections

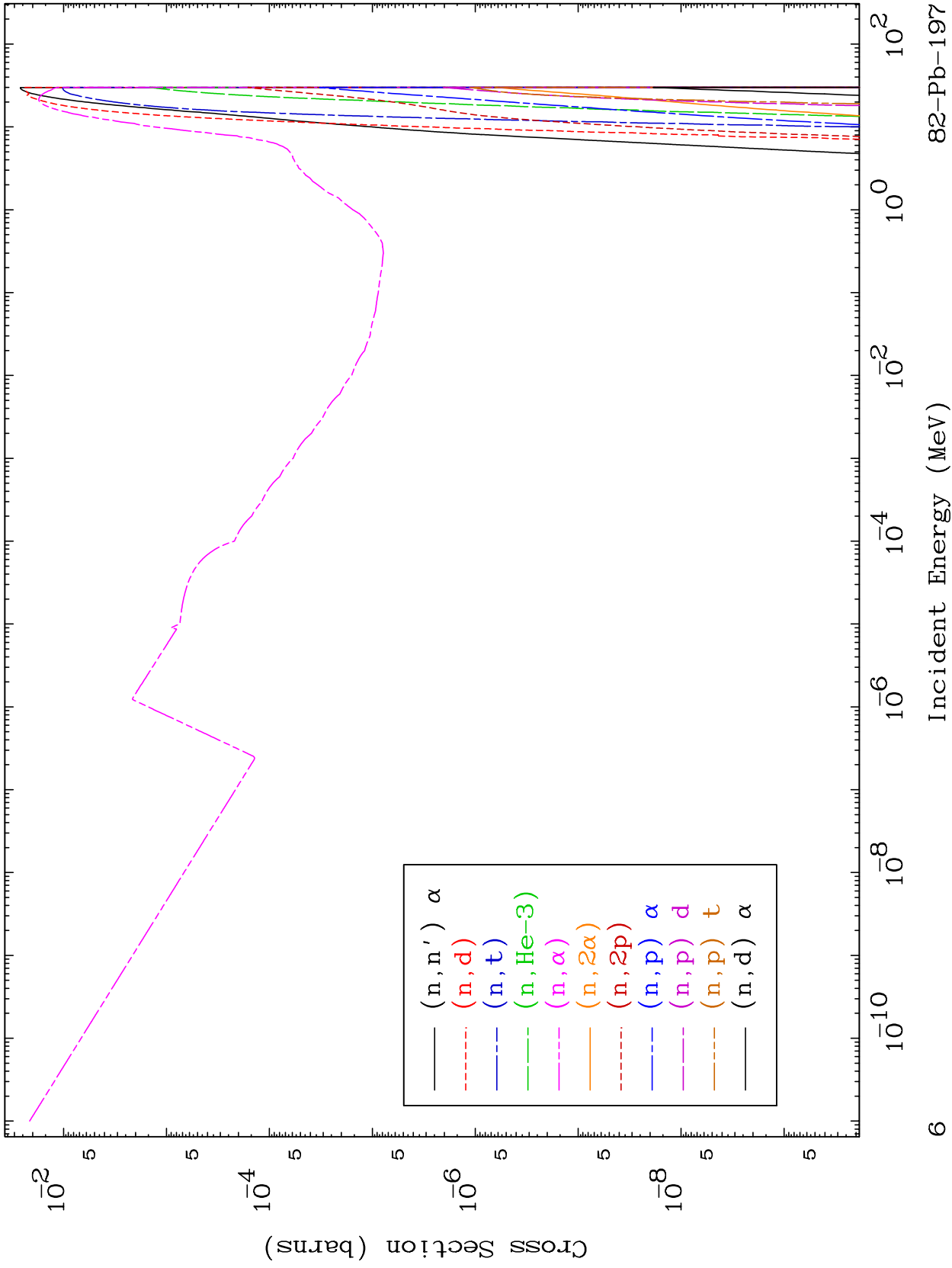
82-Pb-197



MAT 8204

Charged Particle  
293 Kelvin Cross Sections

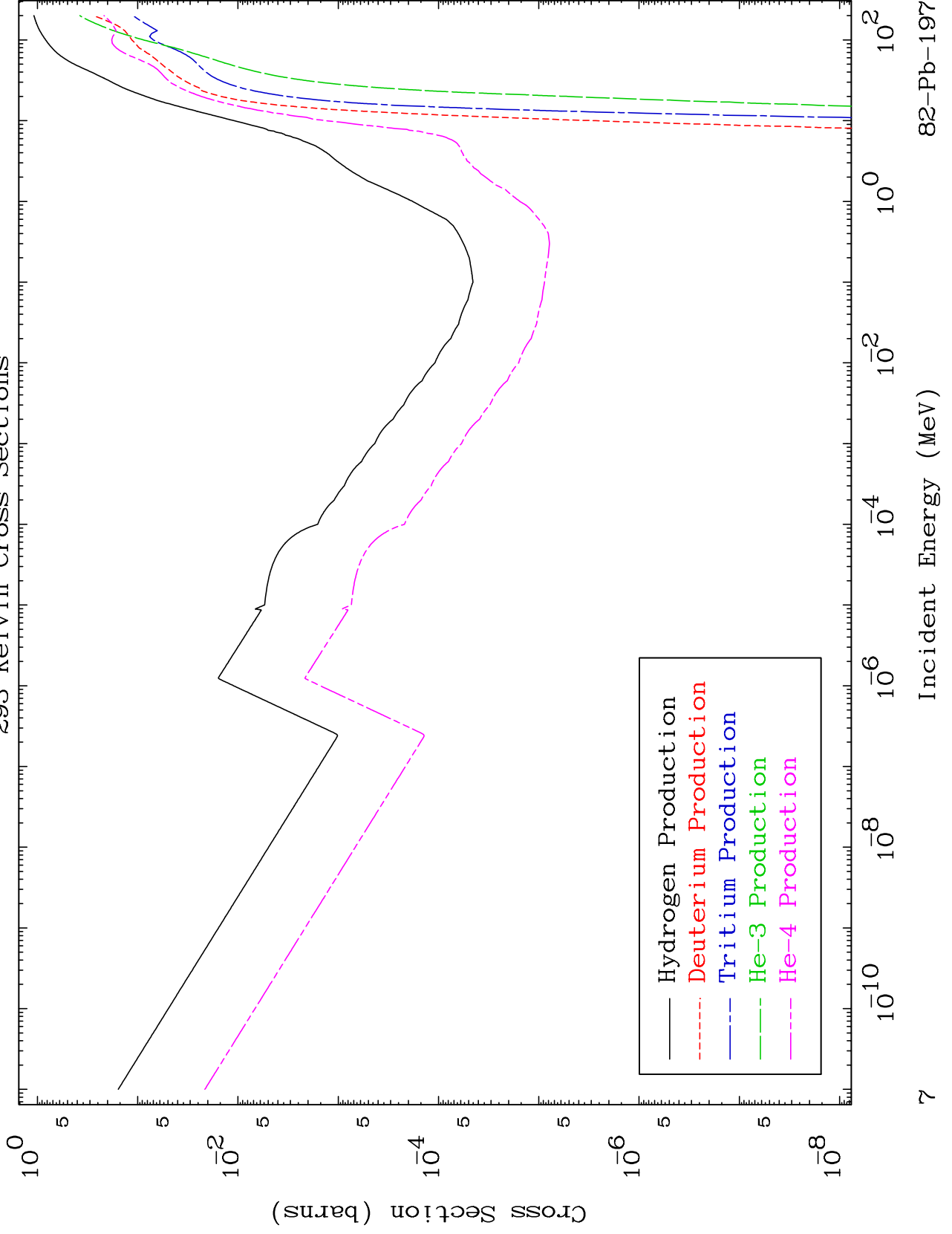
82-Pb-197



MAT 8204

Particle Production  
293 Kelvin Cross Sections

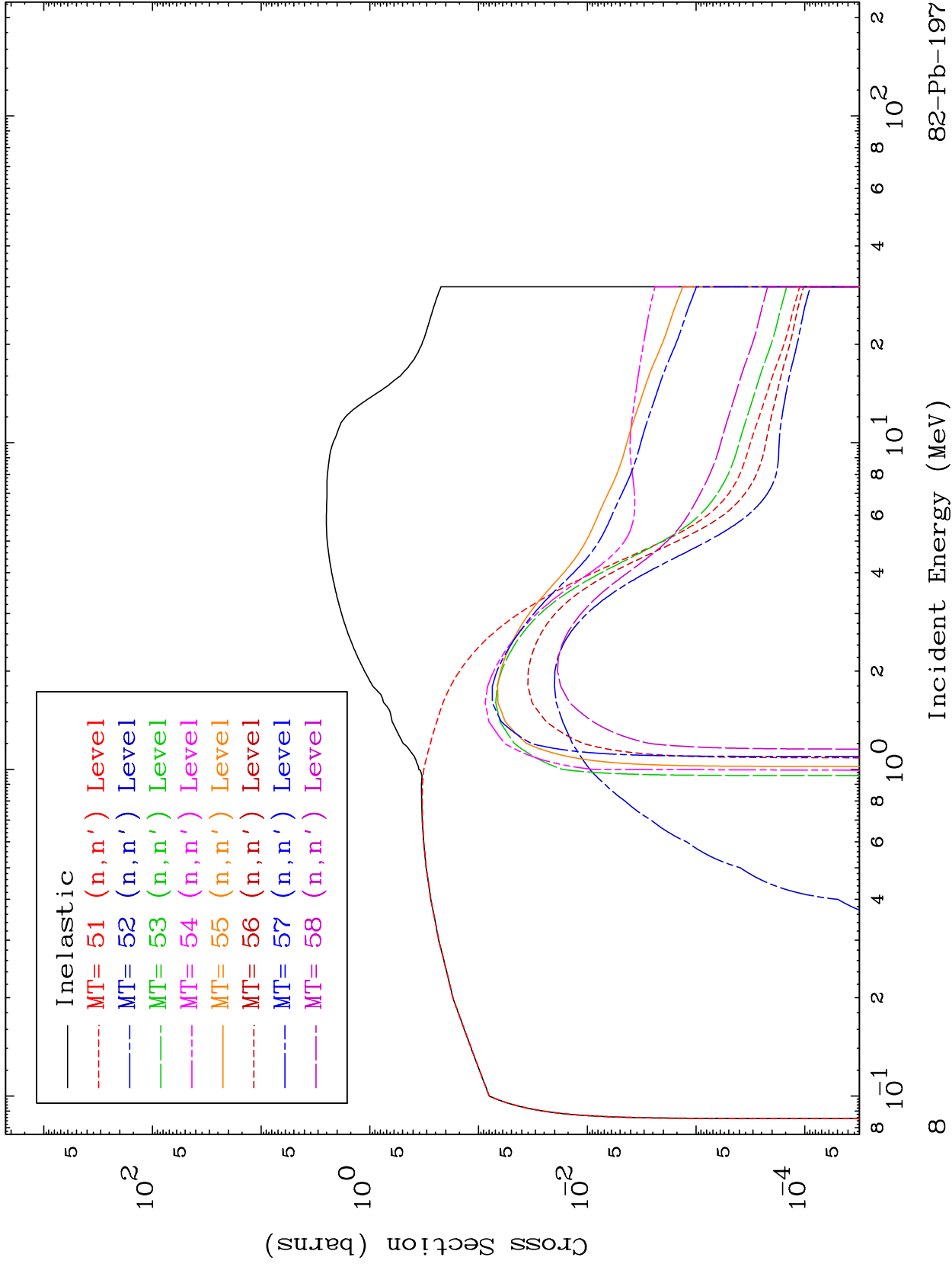
82-Pb-197



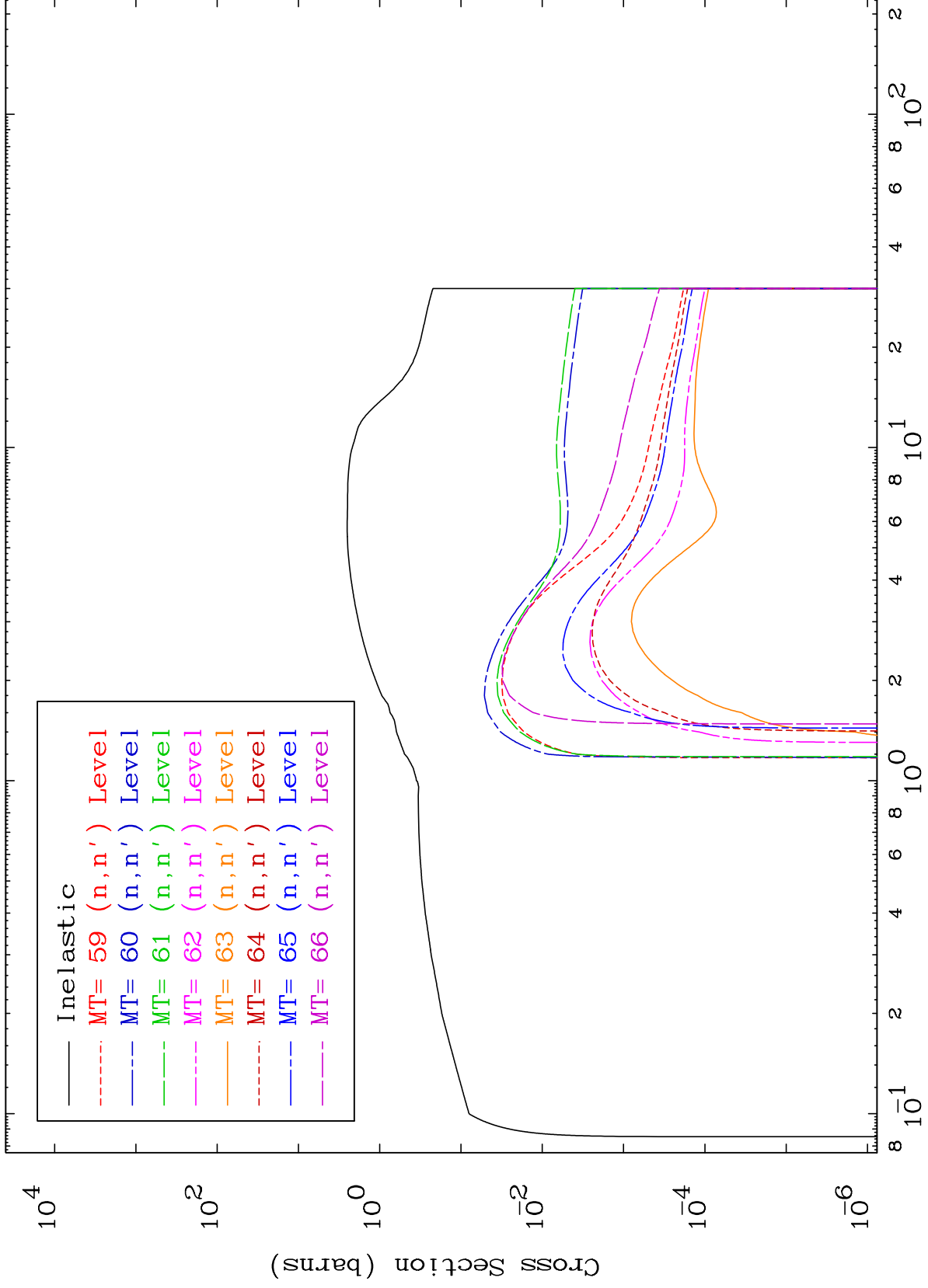
MAT 8204

(n,n') Levels  
293 Kelvin Cross Sections

82-Pb-197



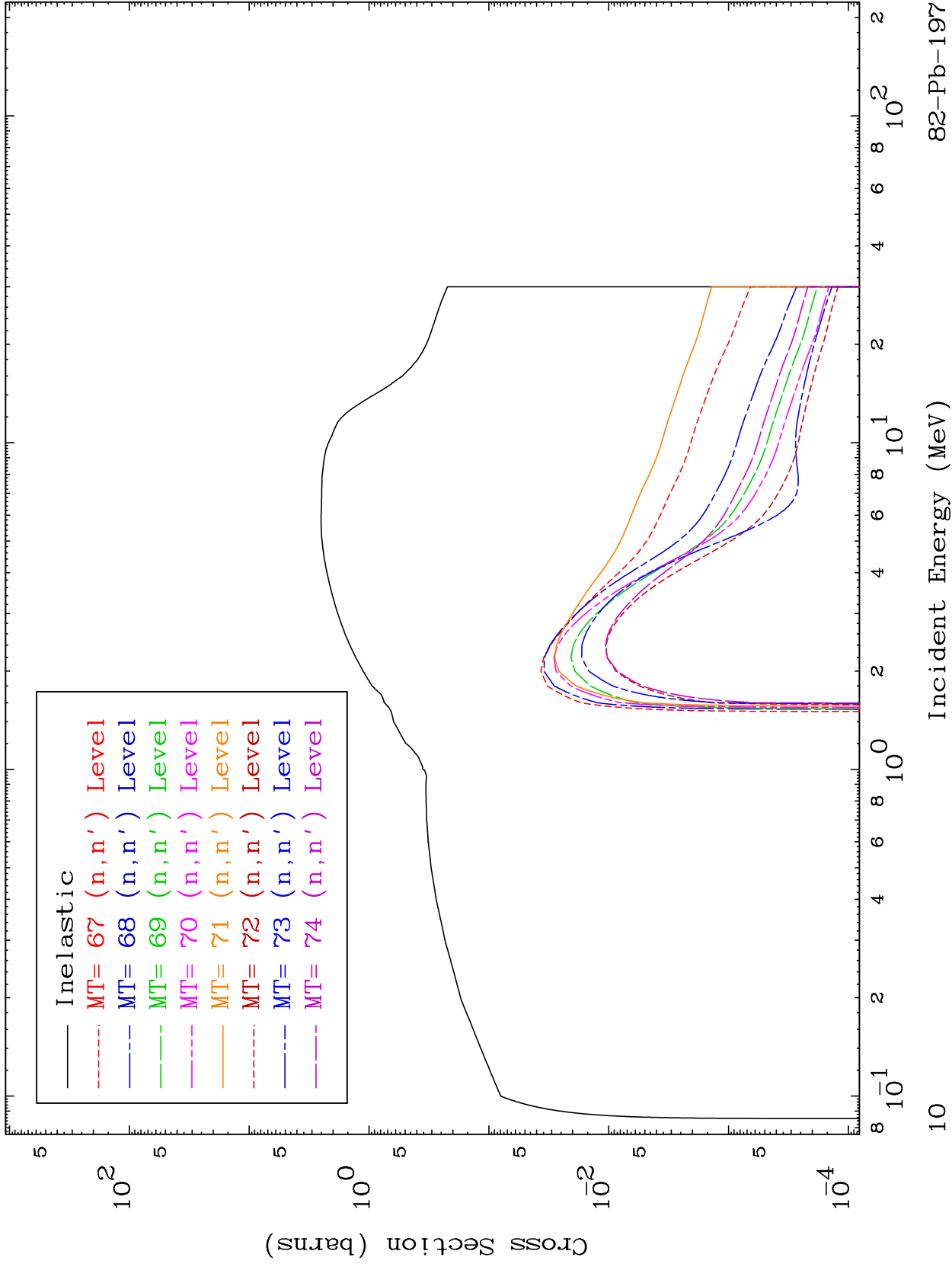
8



MAT 8204

(n,n') Levels  
293 Kelvin Cross Sections

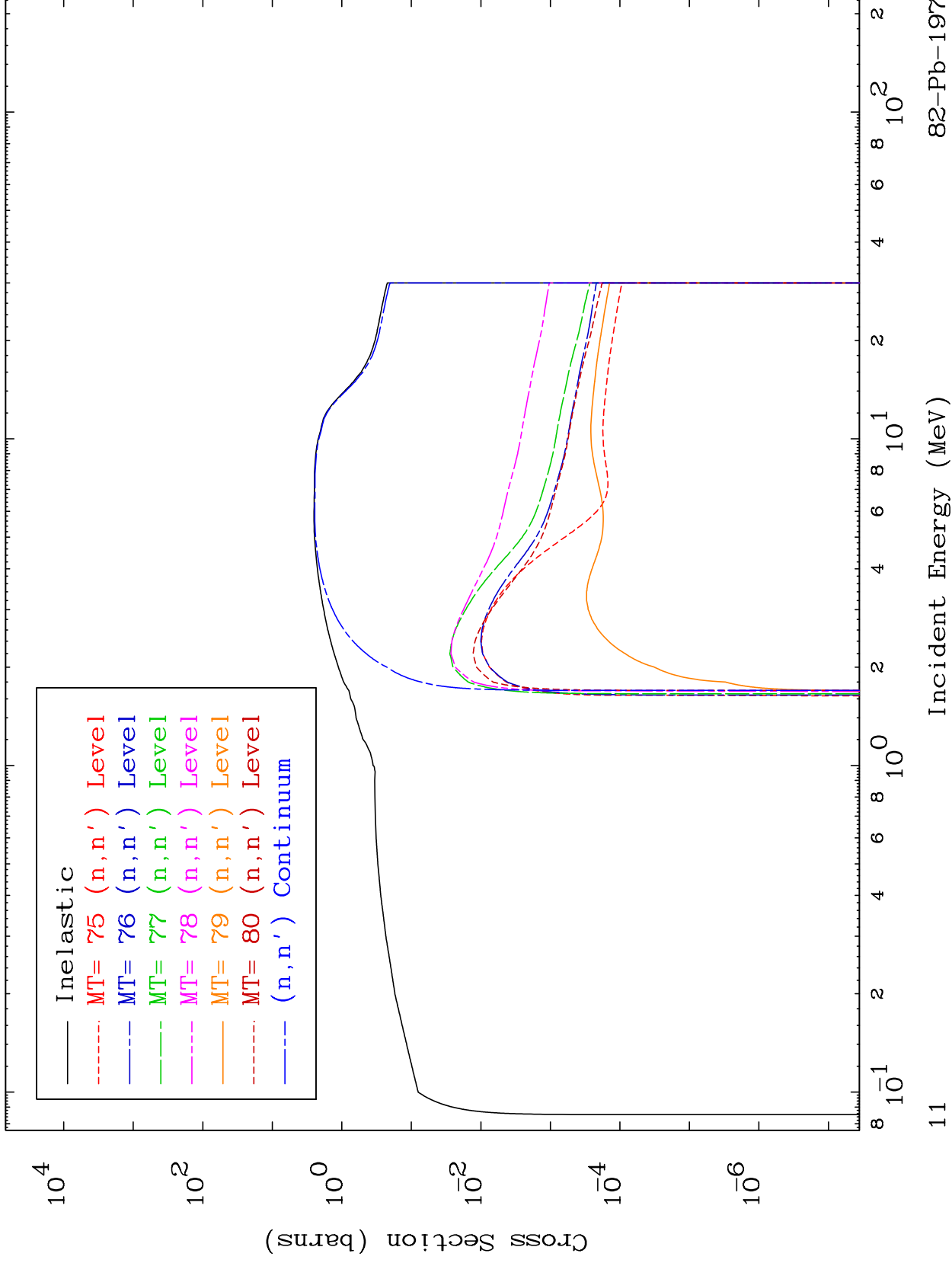
82-Pb-197



MAT 8204

293 Kelvin Cross Sections  
(n,n') Levels

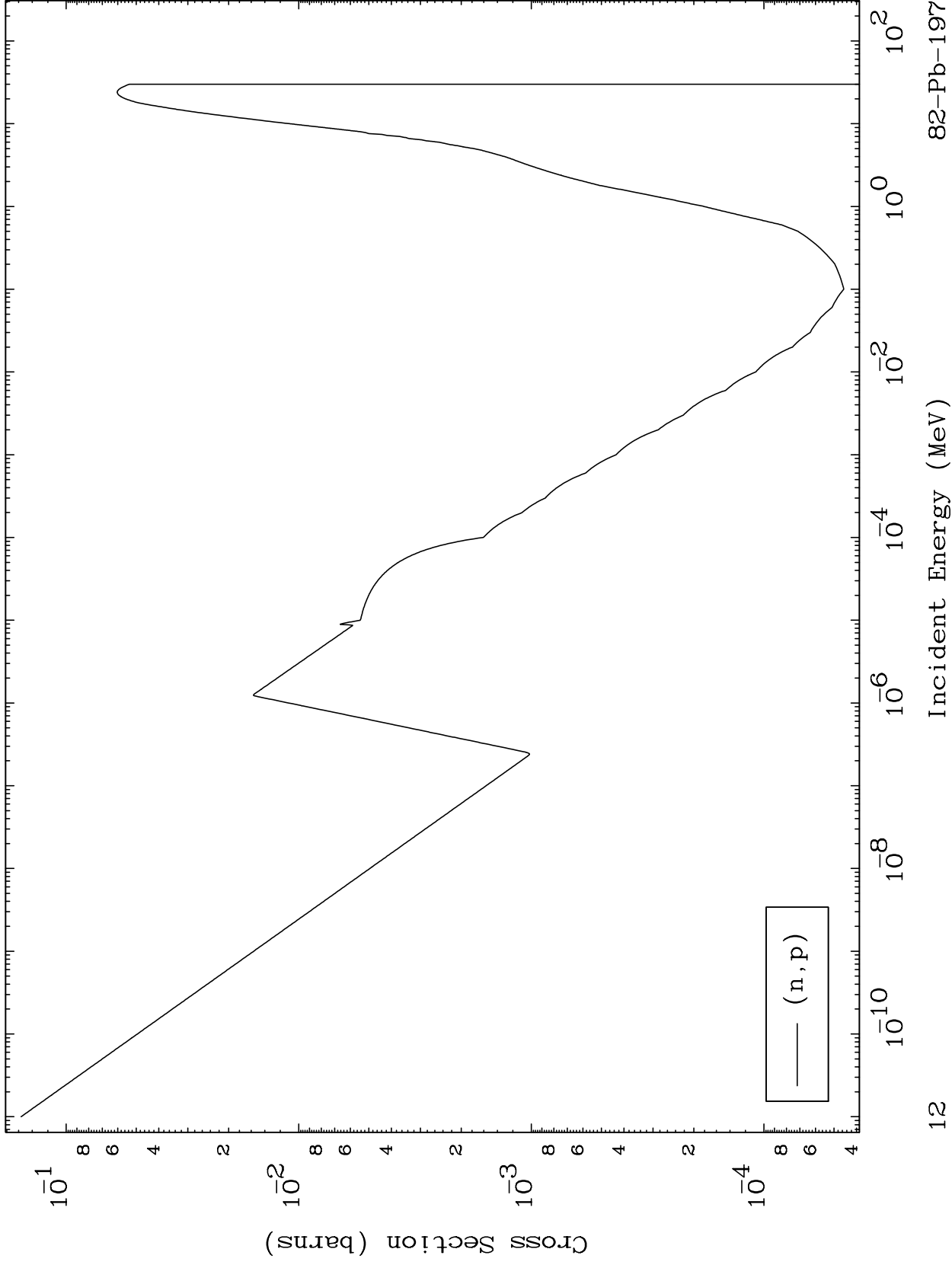
82-Pb-197



MAT 8204

(n,p) Levels  
293 Kelvin Cross Sections

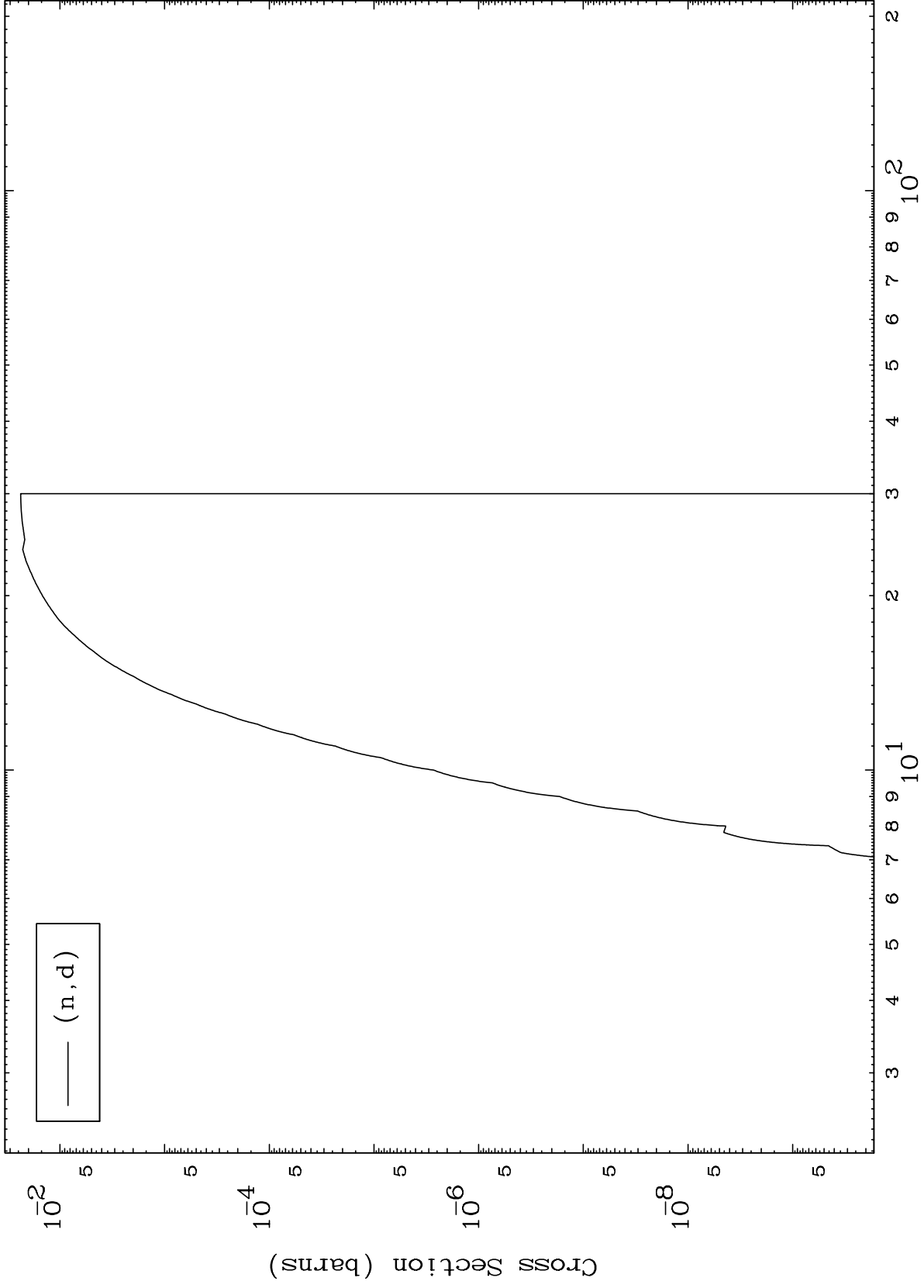
82-Pb-197



MAT 8204

(n,d) Levels  
293 Kelvin Cross Sections

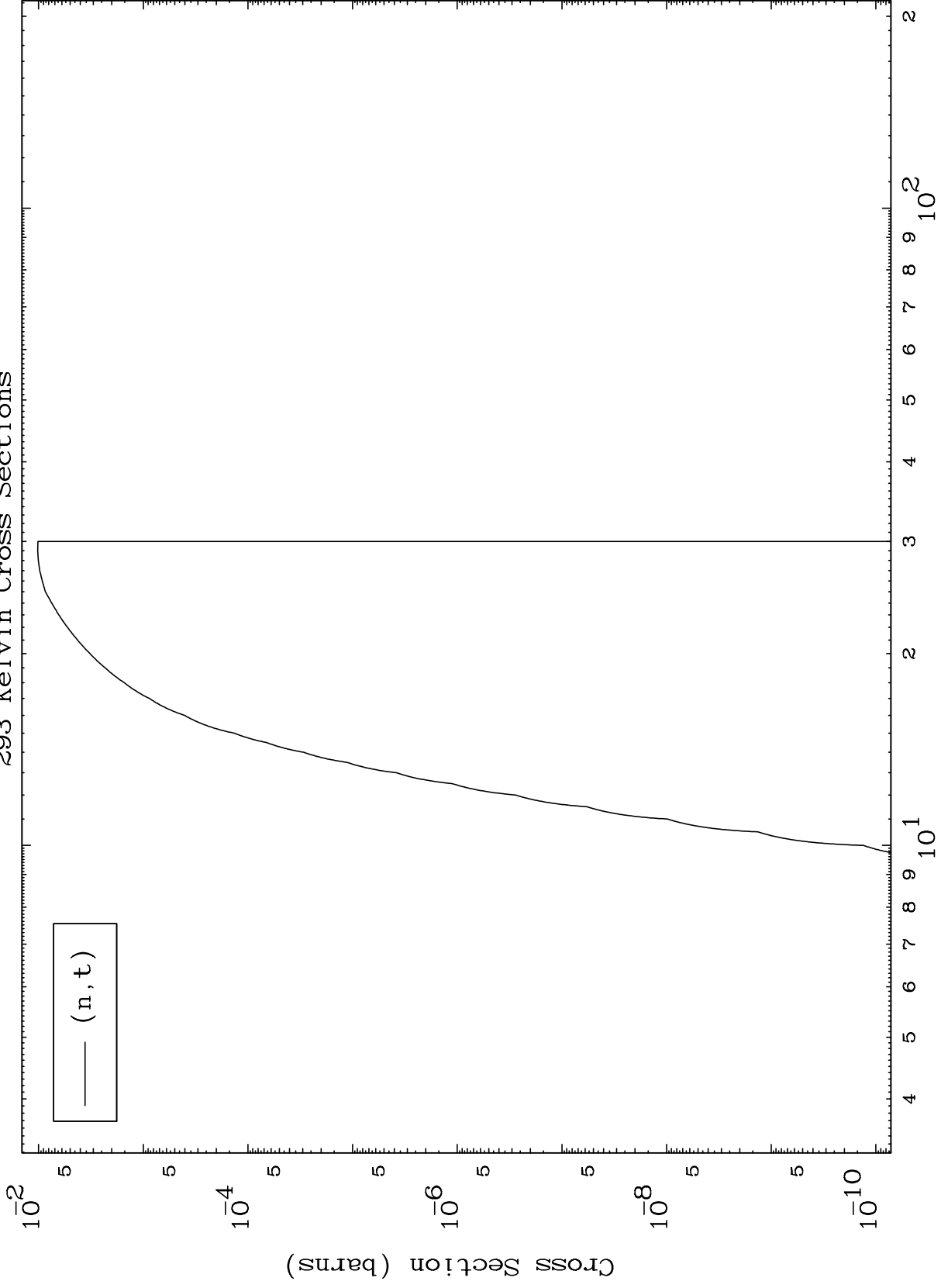
82-Pb-197



MAT 8204

(n,t) Levels  
293 Kelvin Cross Sections

82-Pb-197



14

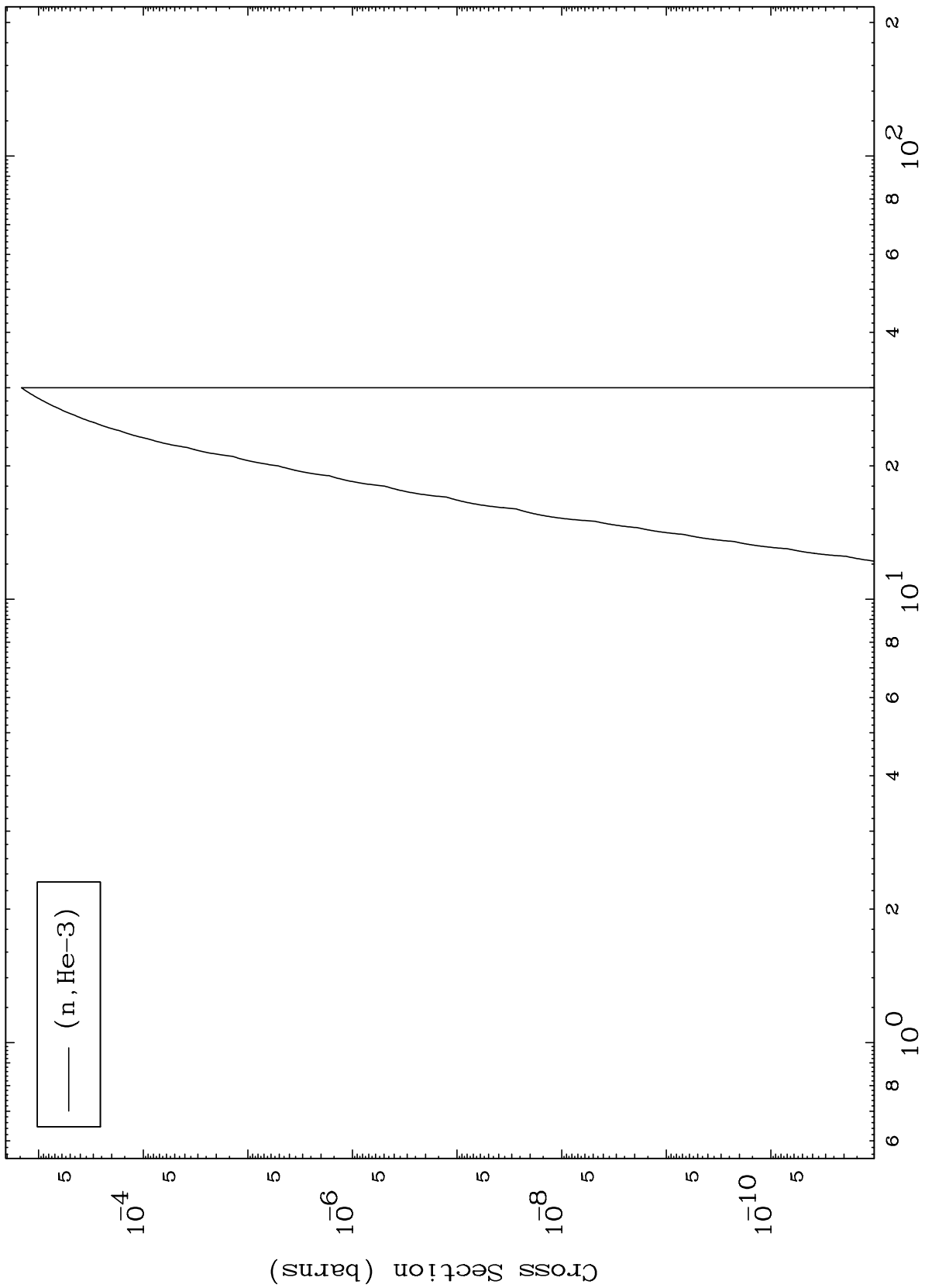
Incident Energy (MeV)

82-Pb-197

MAT 8204

(n,He3) Levels  
293 Kelvin Cross Sections

82-Pb-197



15

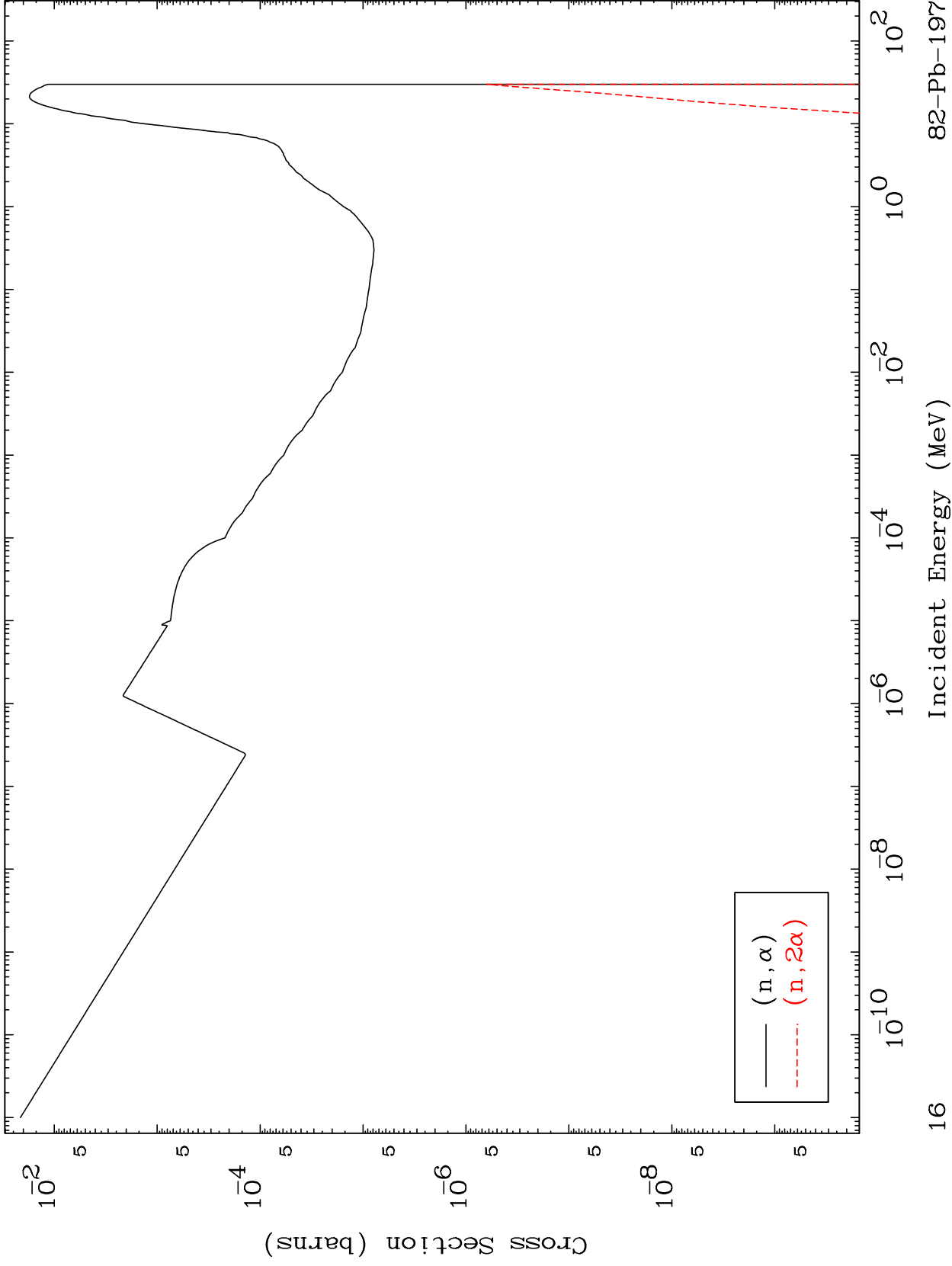
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

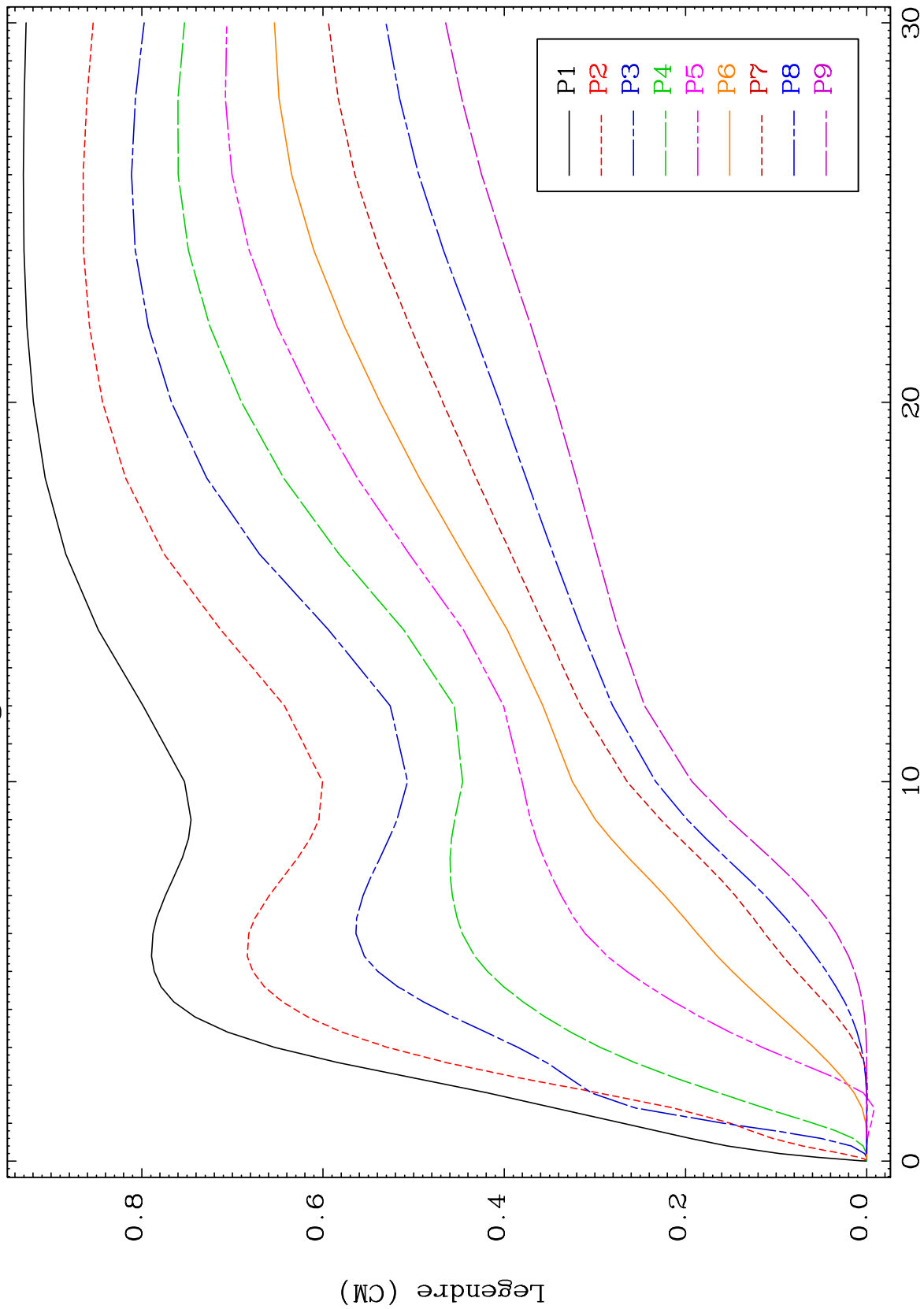
82-Pb-197



MAT 8204

Elastic Legendre Coefficients

82-Pb-197



17

Incident Energy (MeV)

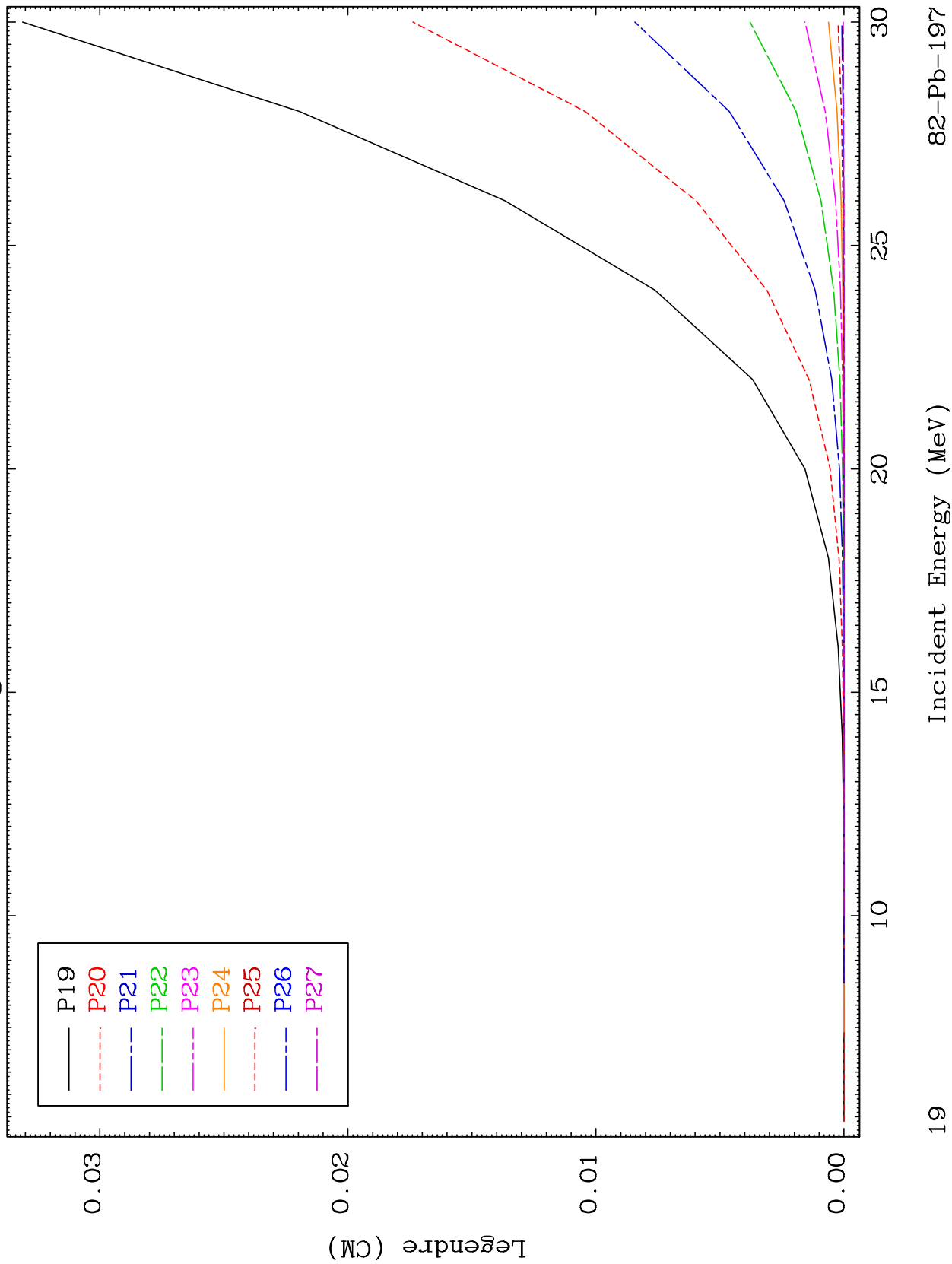
82-Pb-197



MAT 8204

### Elastic Legendre Coefficients

82-Pb-197



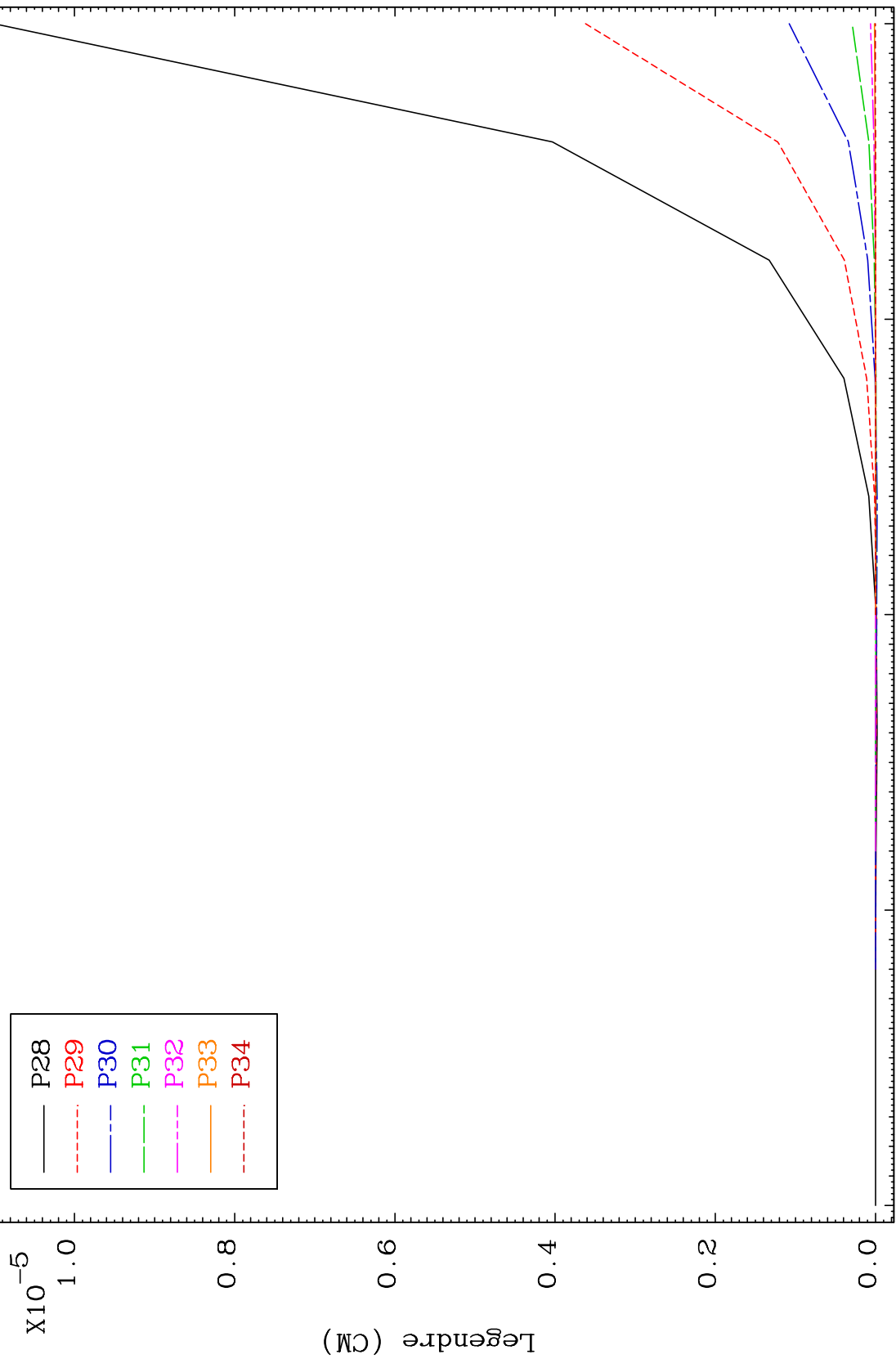
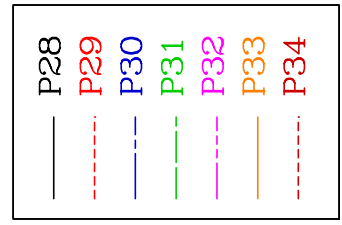
19

82-Pb-197

MAT 8204

Elastic Legendre Coefficients

82-Pb-197



82-Pb-197

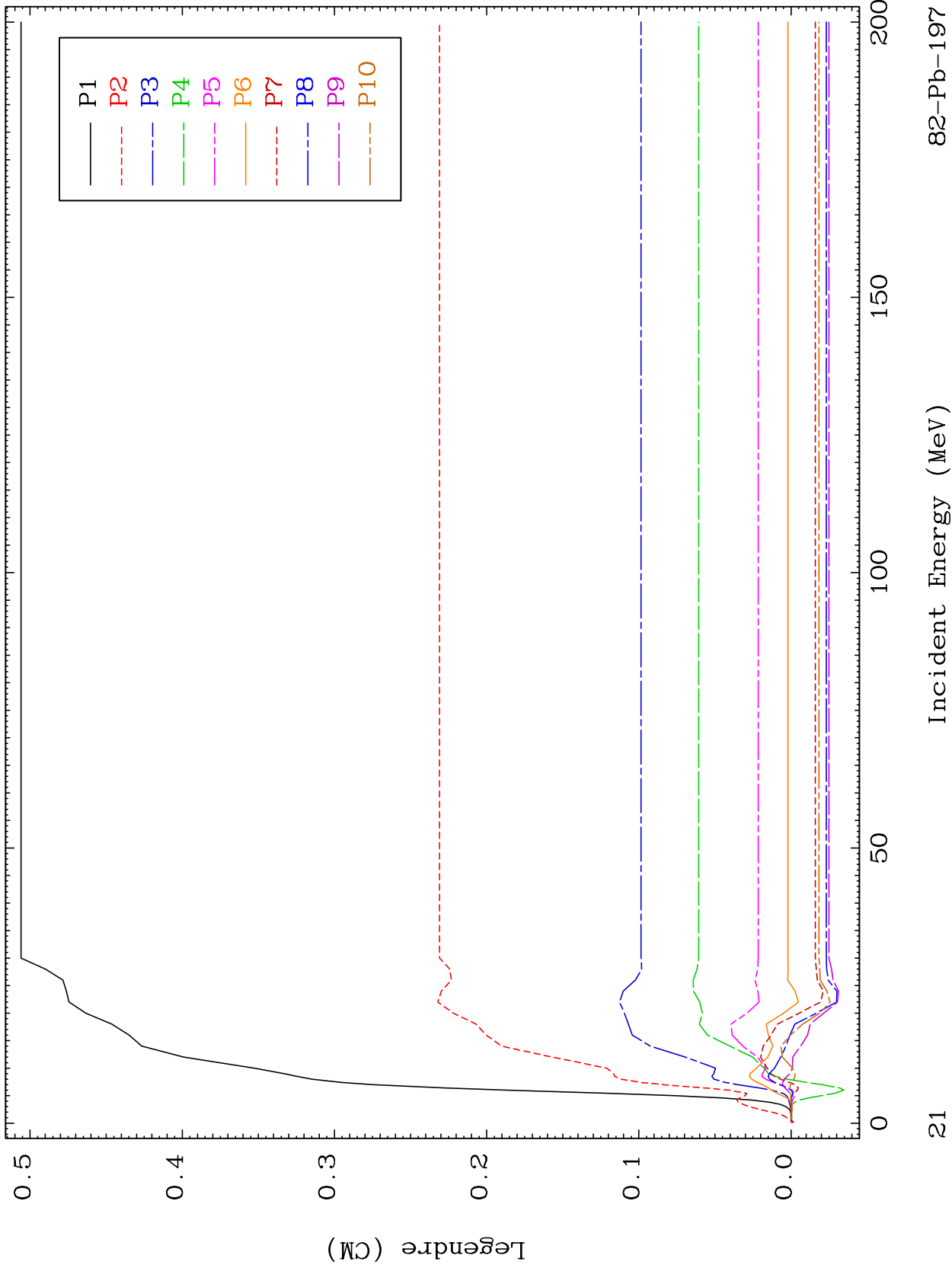
Incident Energy (MeV)

20

MAT 8204

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

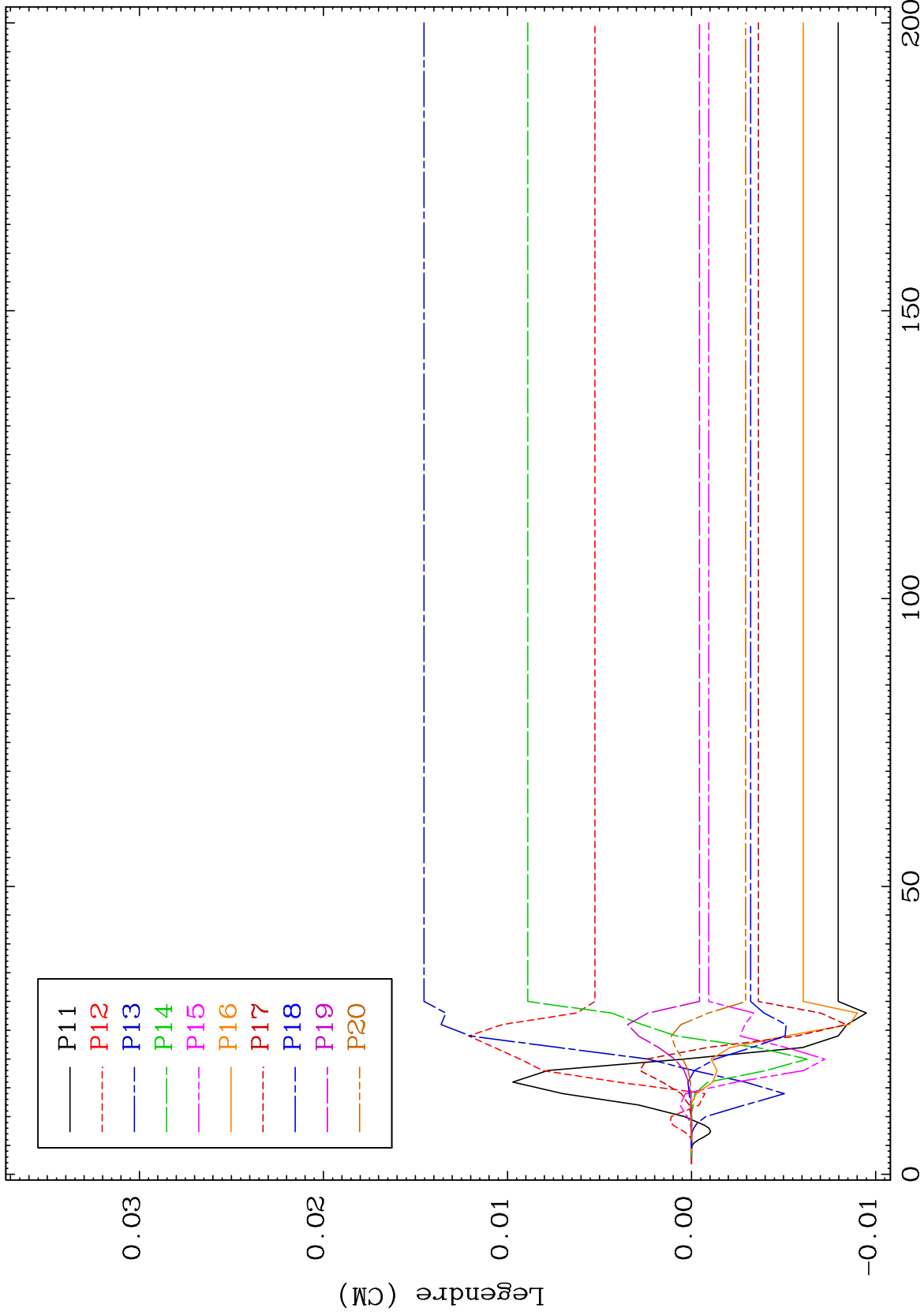
82-Pb-197



MAT 8204

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

82-Pb-197



22

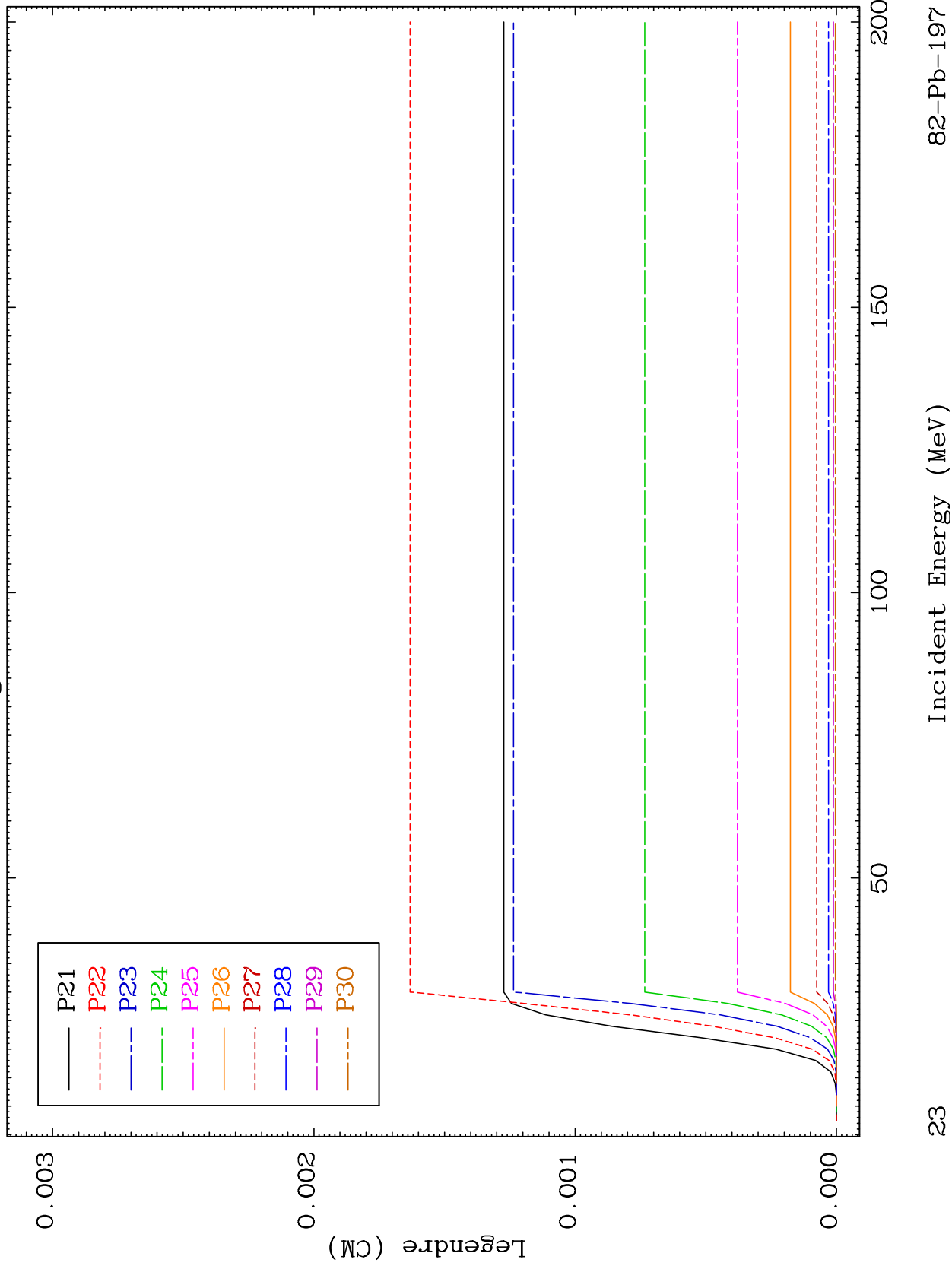
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

82-Pb-197



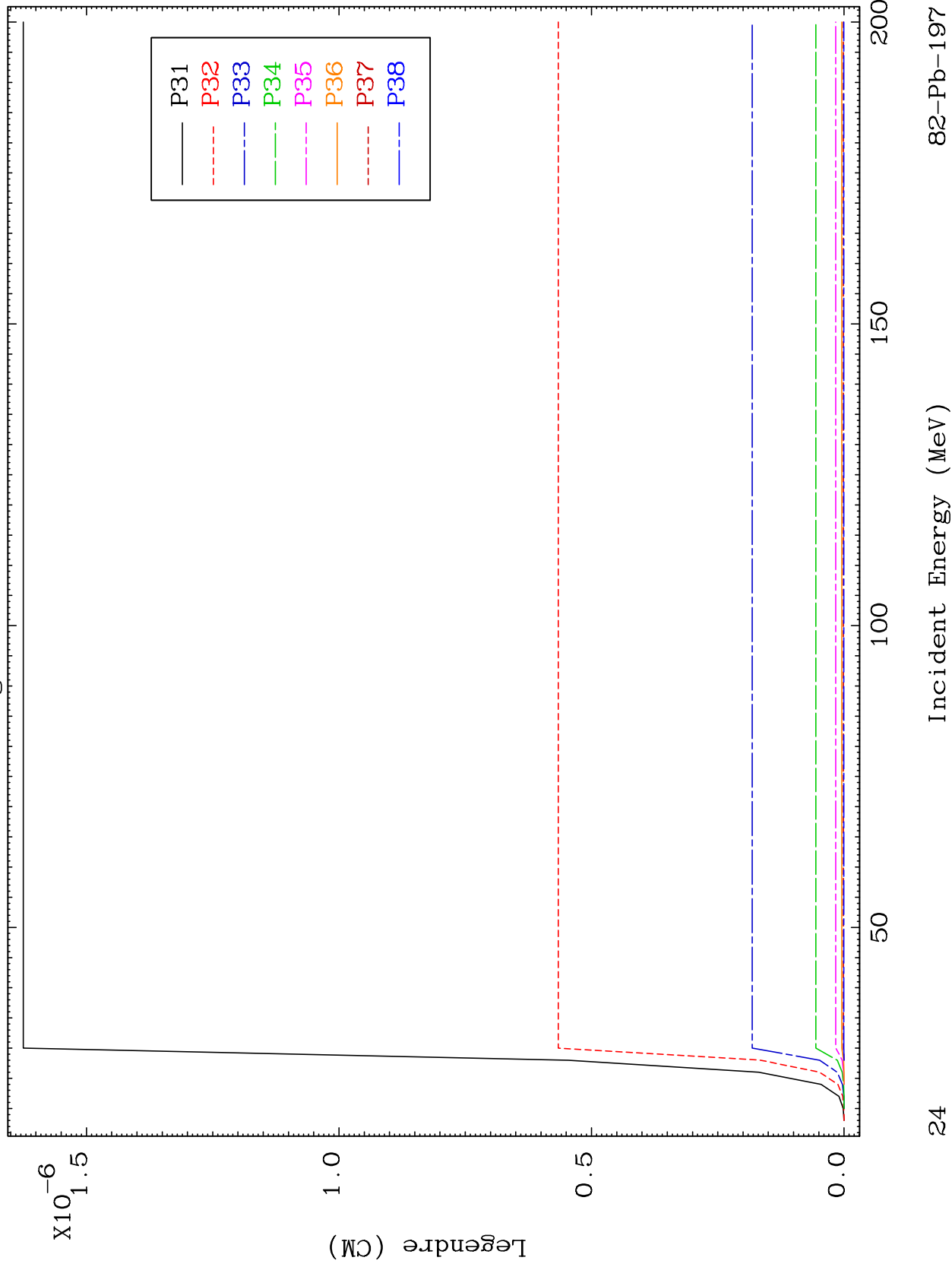
23

82-Pb-197

MAT 8204

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

82-Pb-197

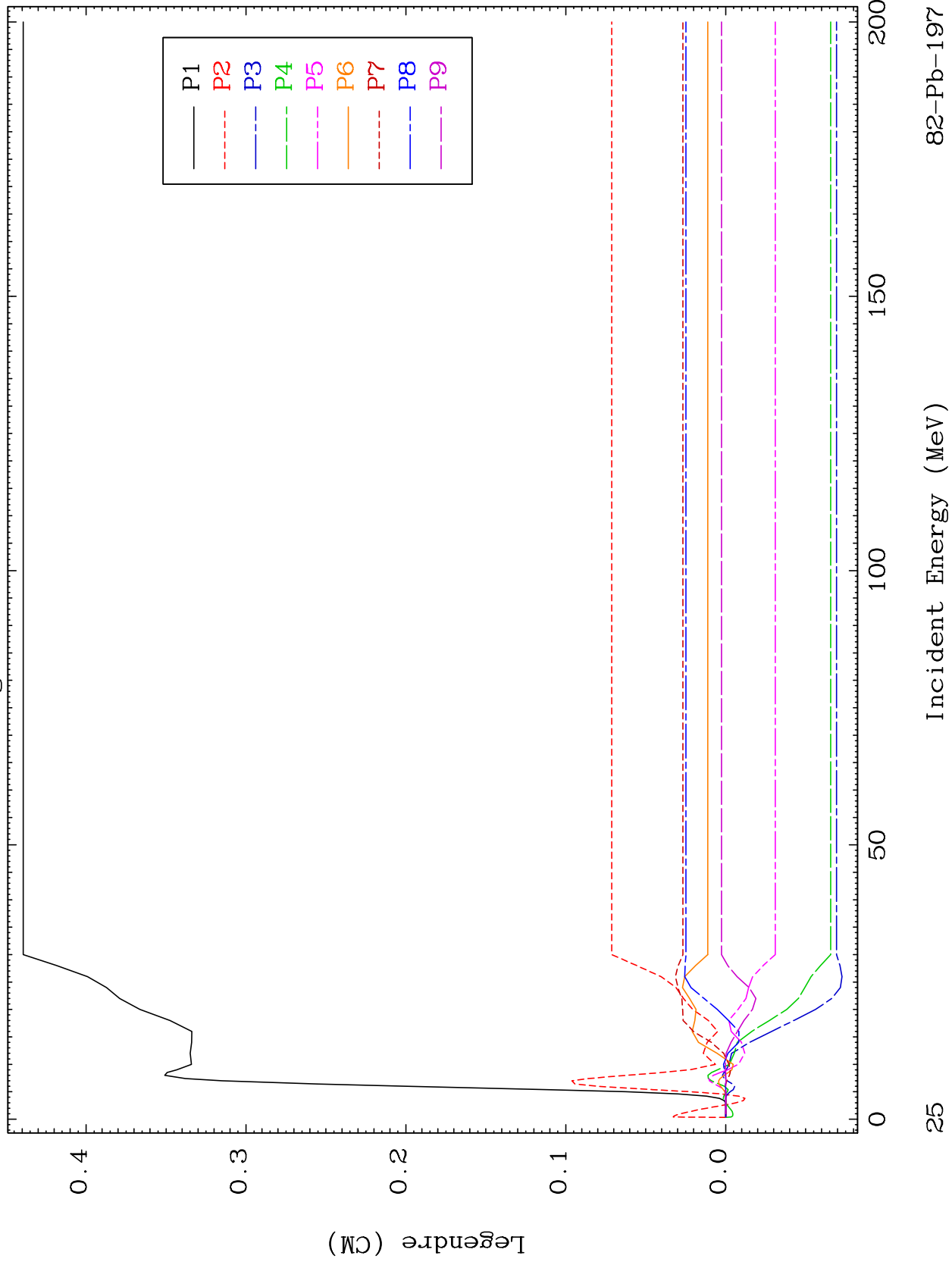


24

MAT 8204

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

82-Pb-197



82-Pb-197

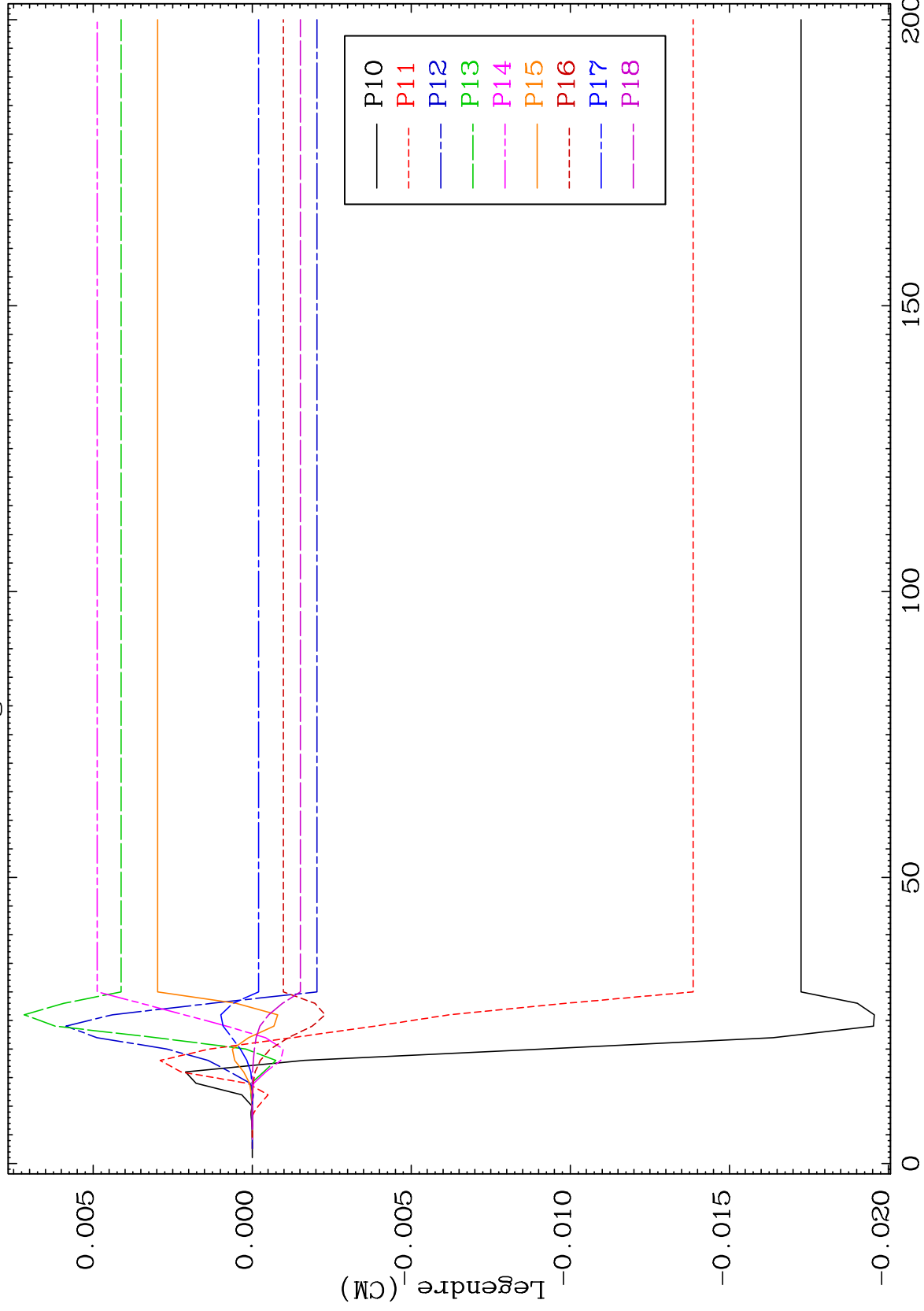
Incident Energy (MeV)

25

MAT 8204

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

82-Pb-197



26

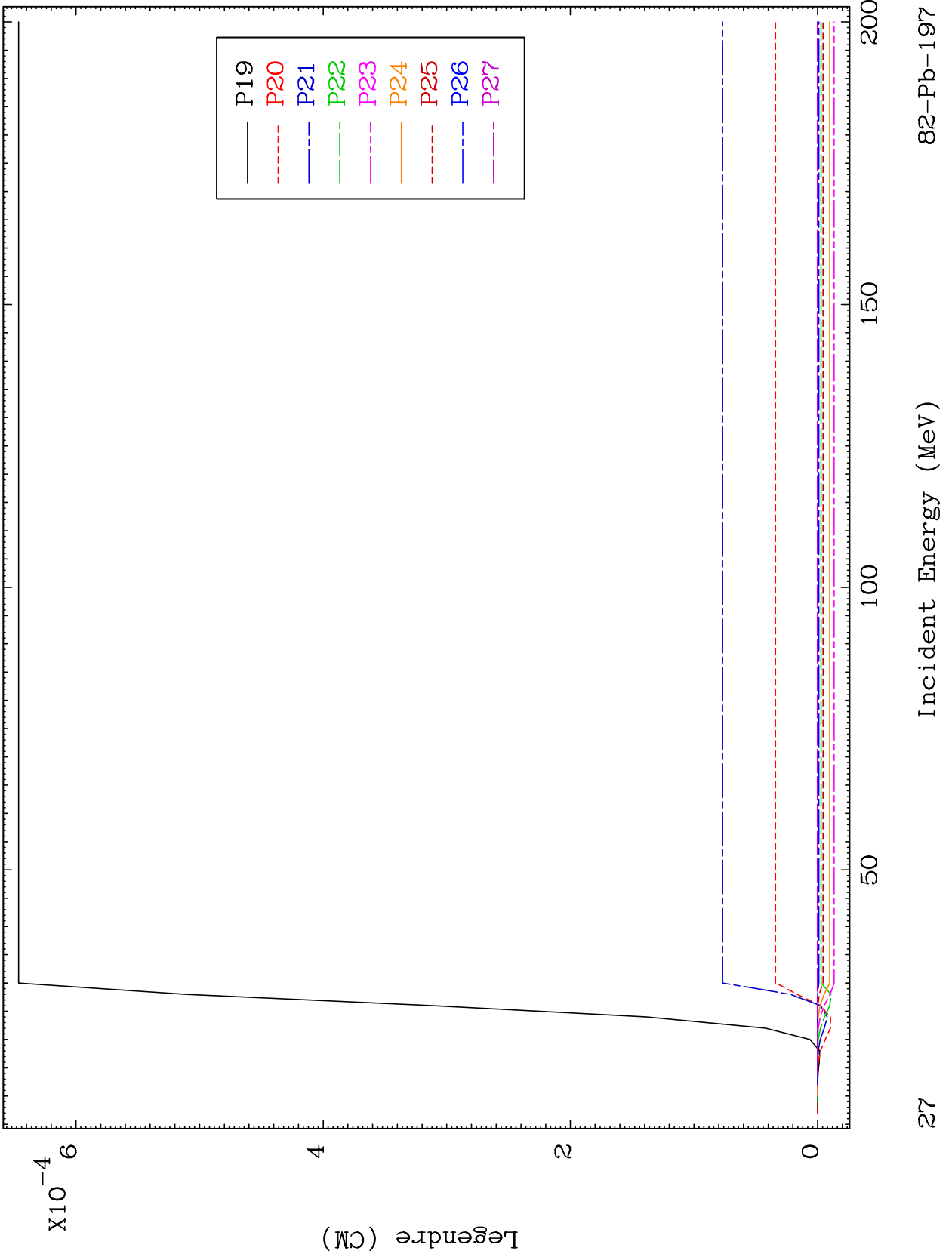
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

82-Pb-197



27

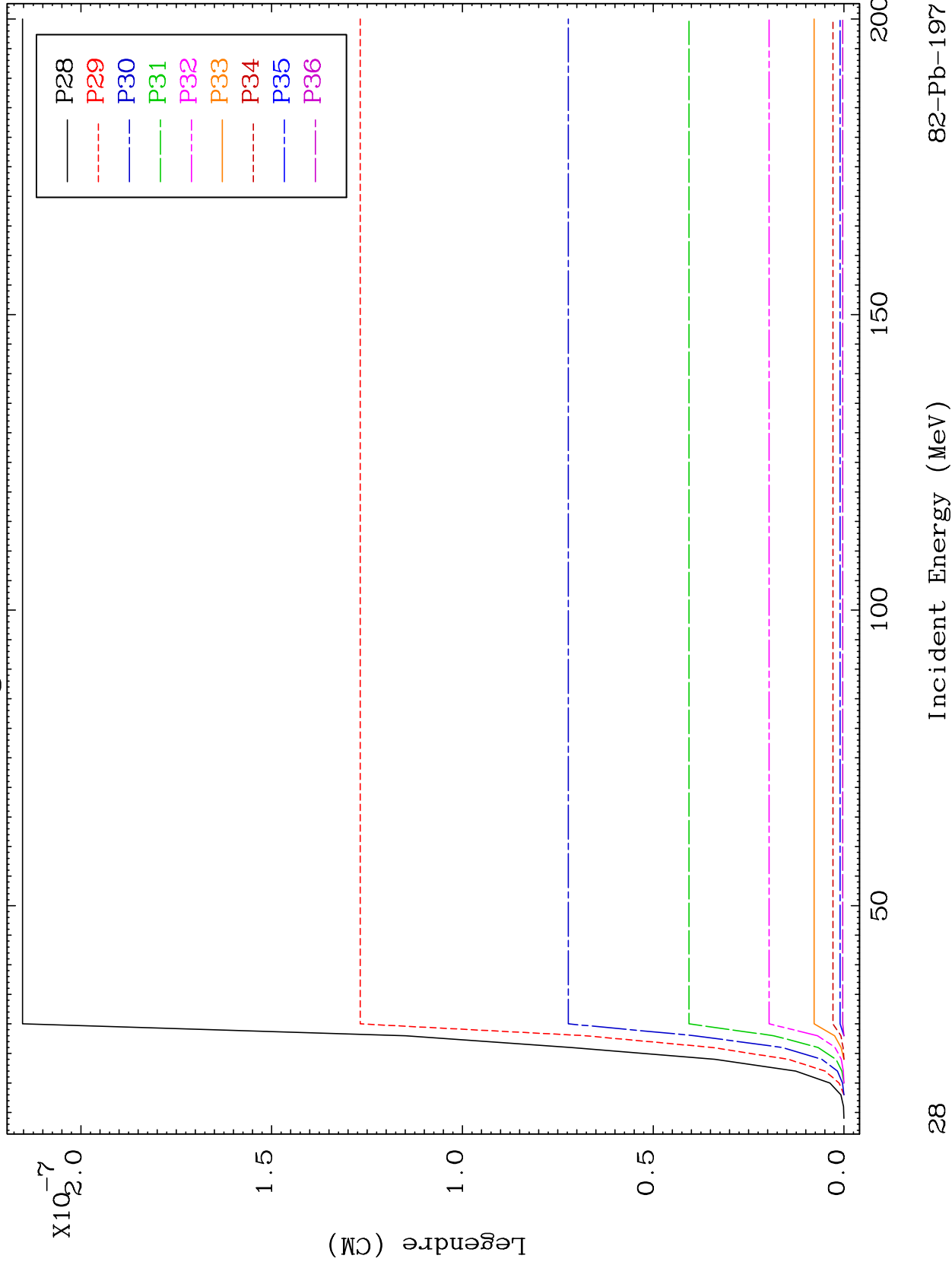
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

82-Pb-197



28

Incident Energy (MeV)

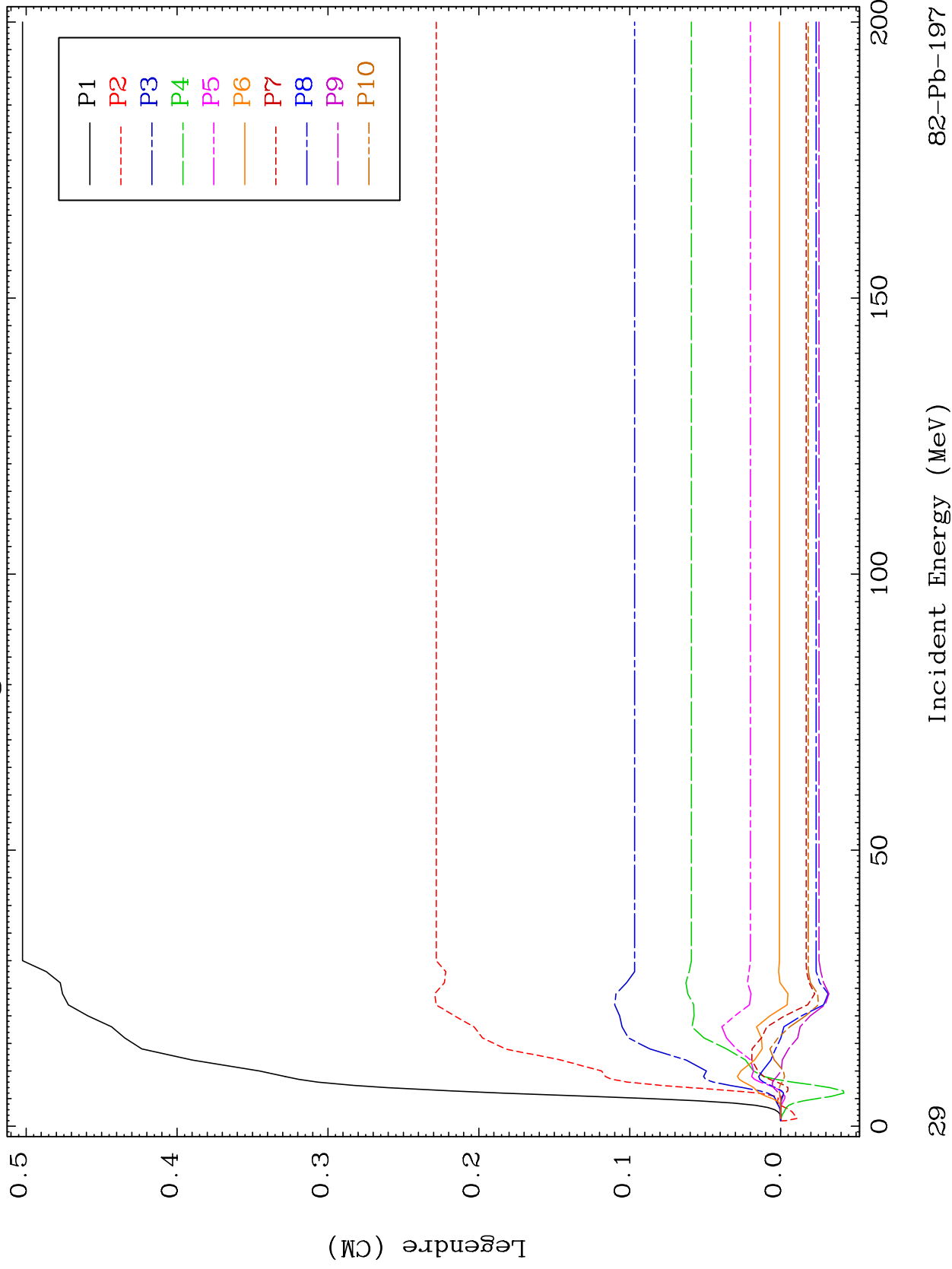
82-Pb-197

MAT 8204

MT= 53 (n,n') Level

82-Pb-197

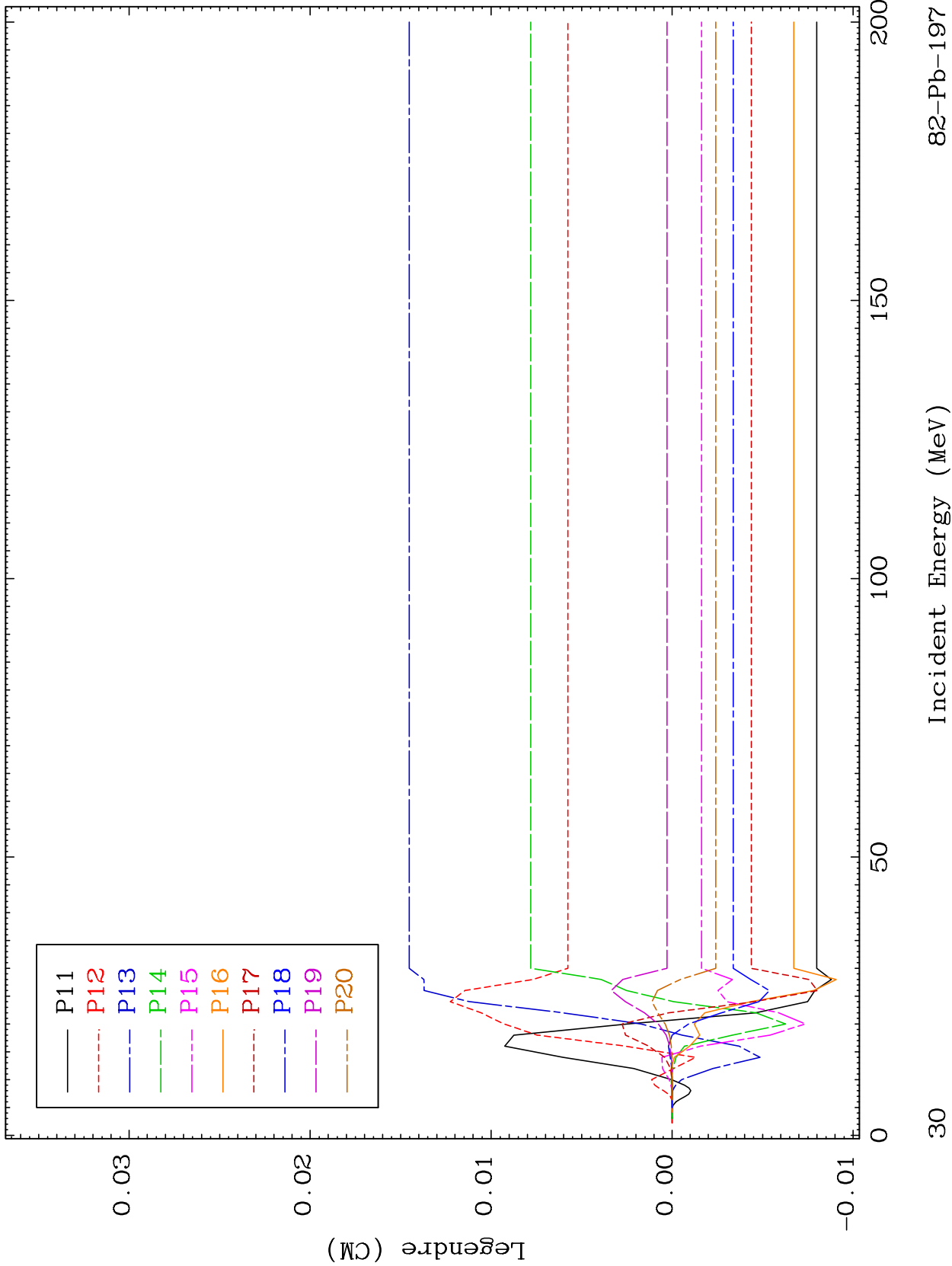
Legendre Coefficients



MAT 8204

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

82-Pb-197



82-Pb-197

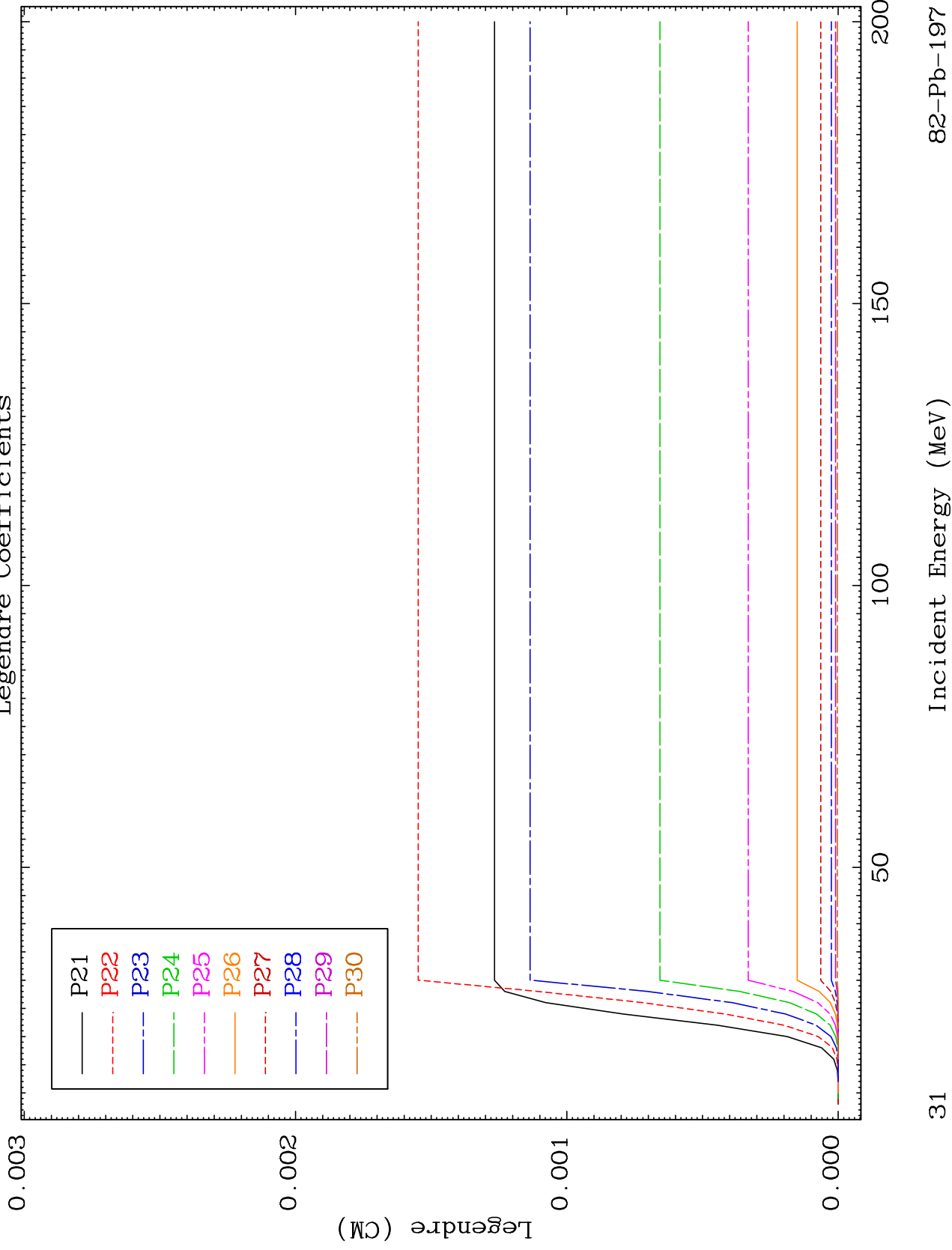
Incident Energy (MeV)

30

MAT 8204

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

82-Pb-197



31

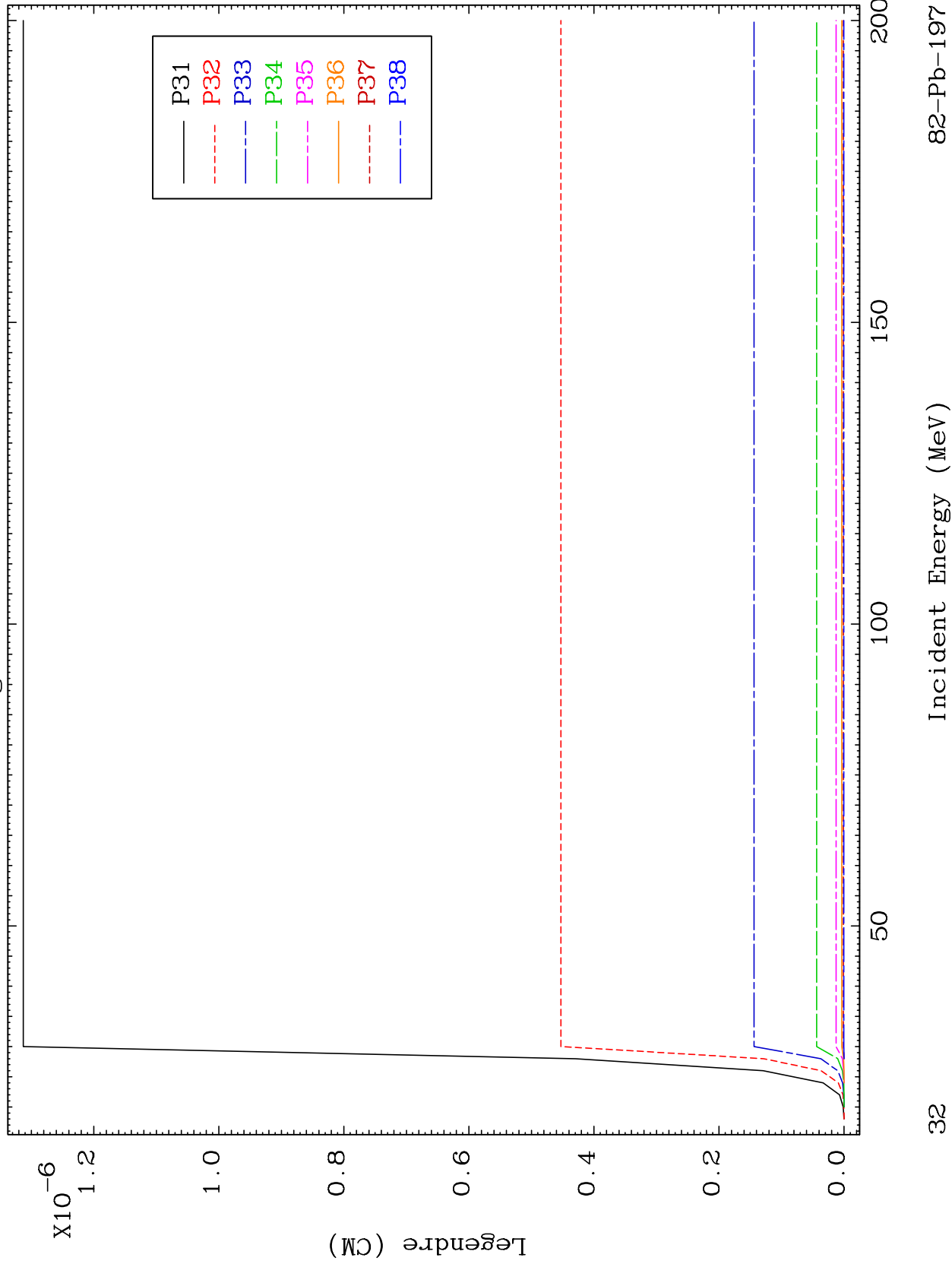
Incident Energy (MeV)

82-Pb-197

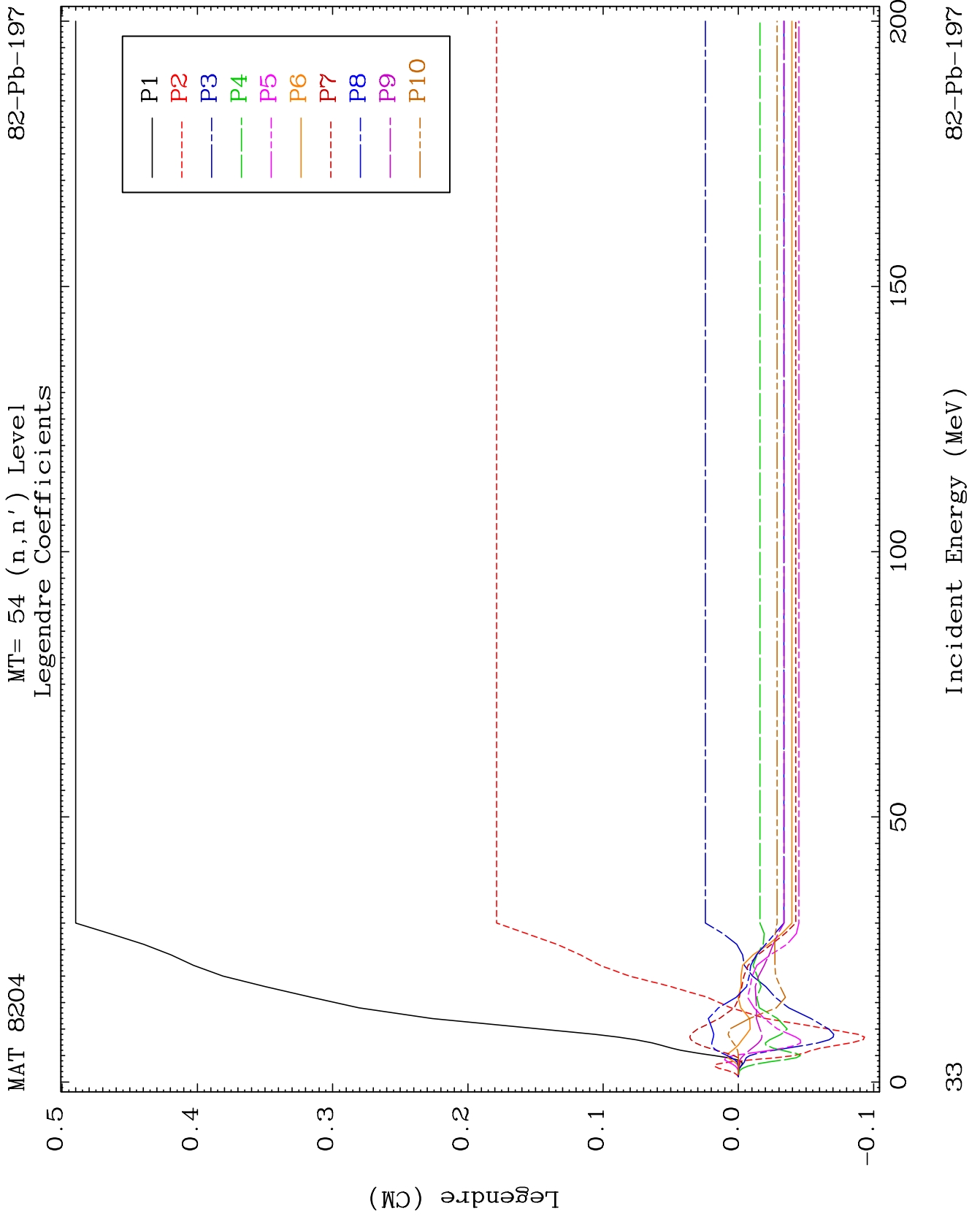
MAT 8204

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

82-Pb-197



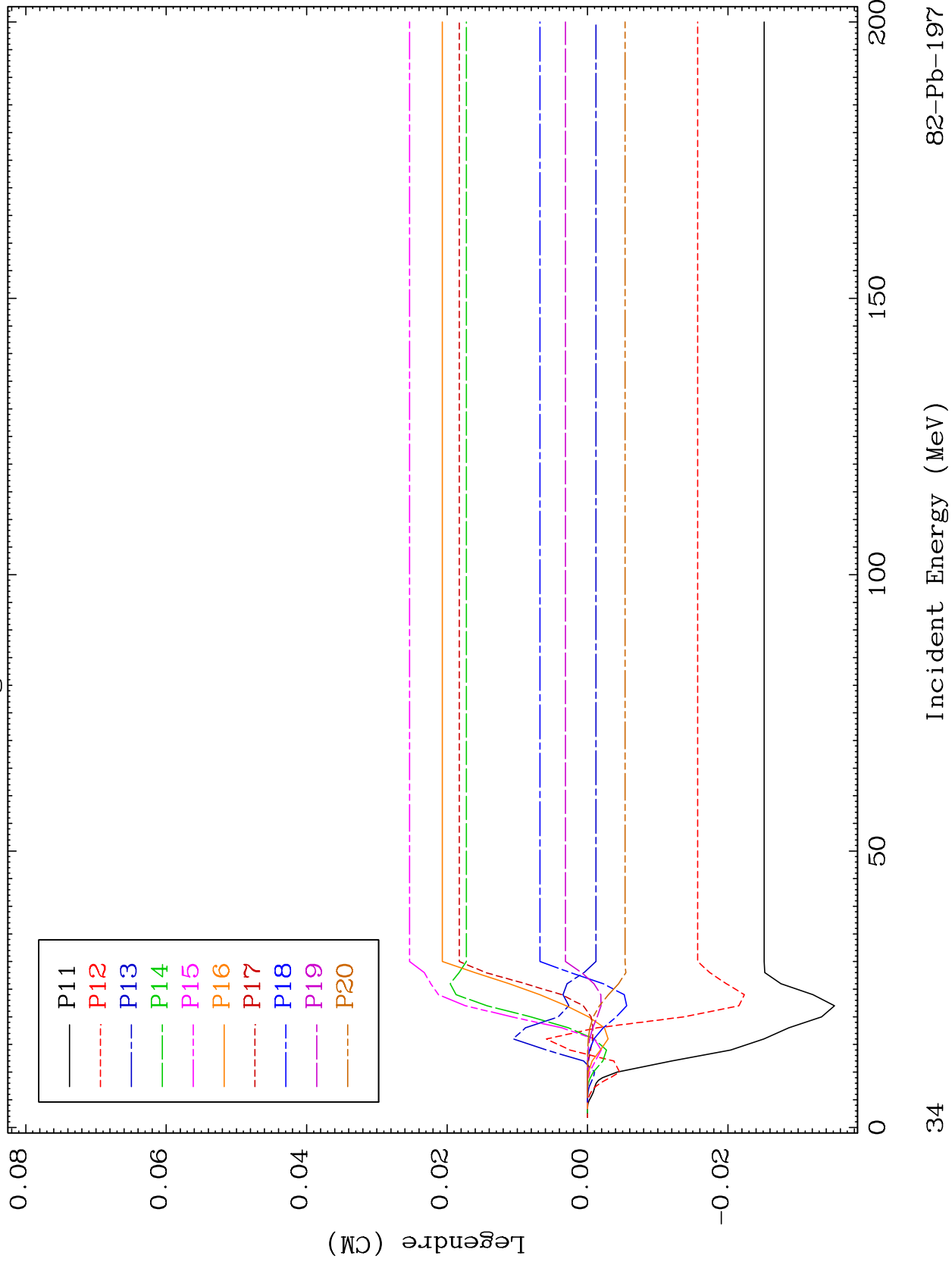
32

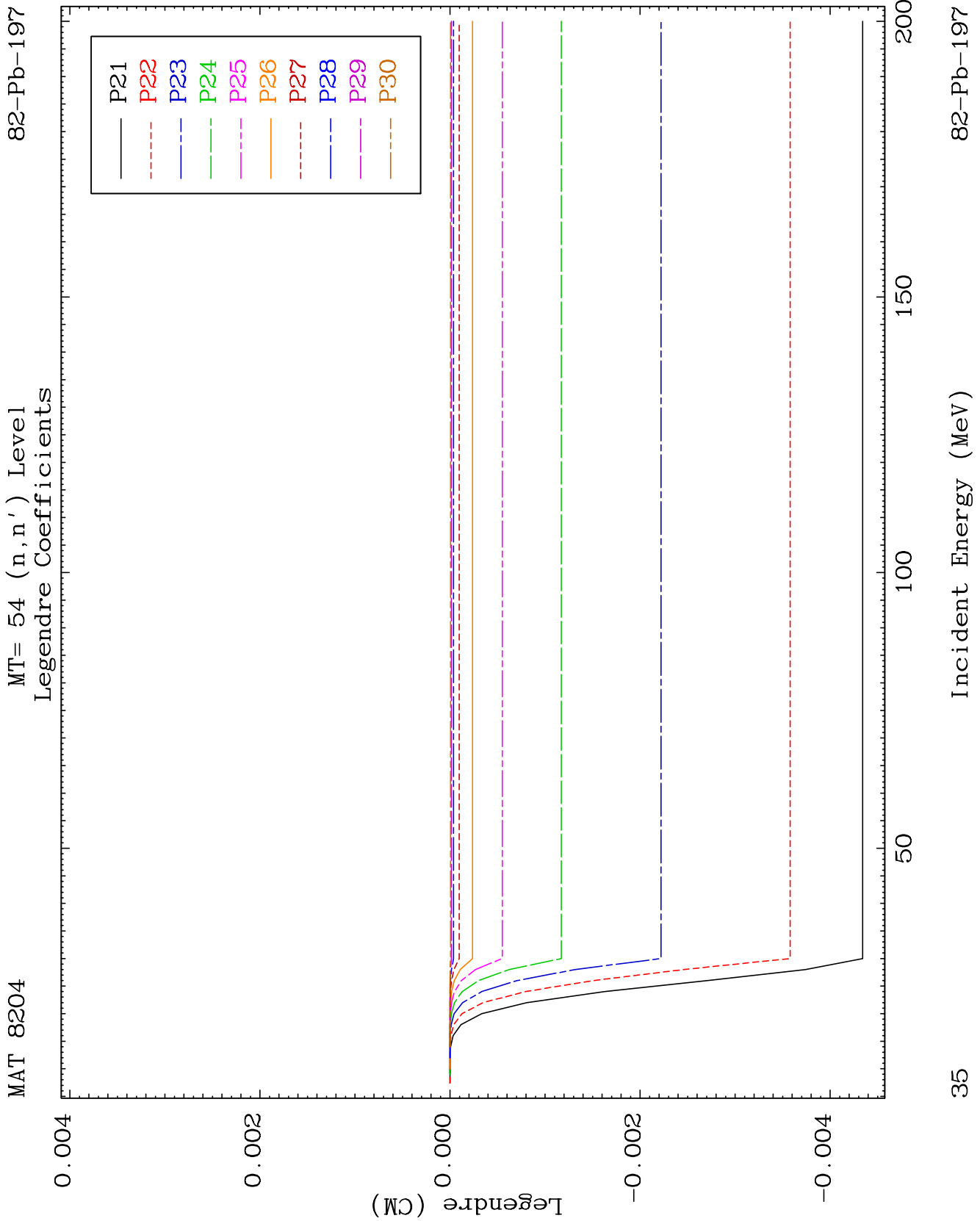


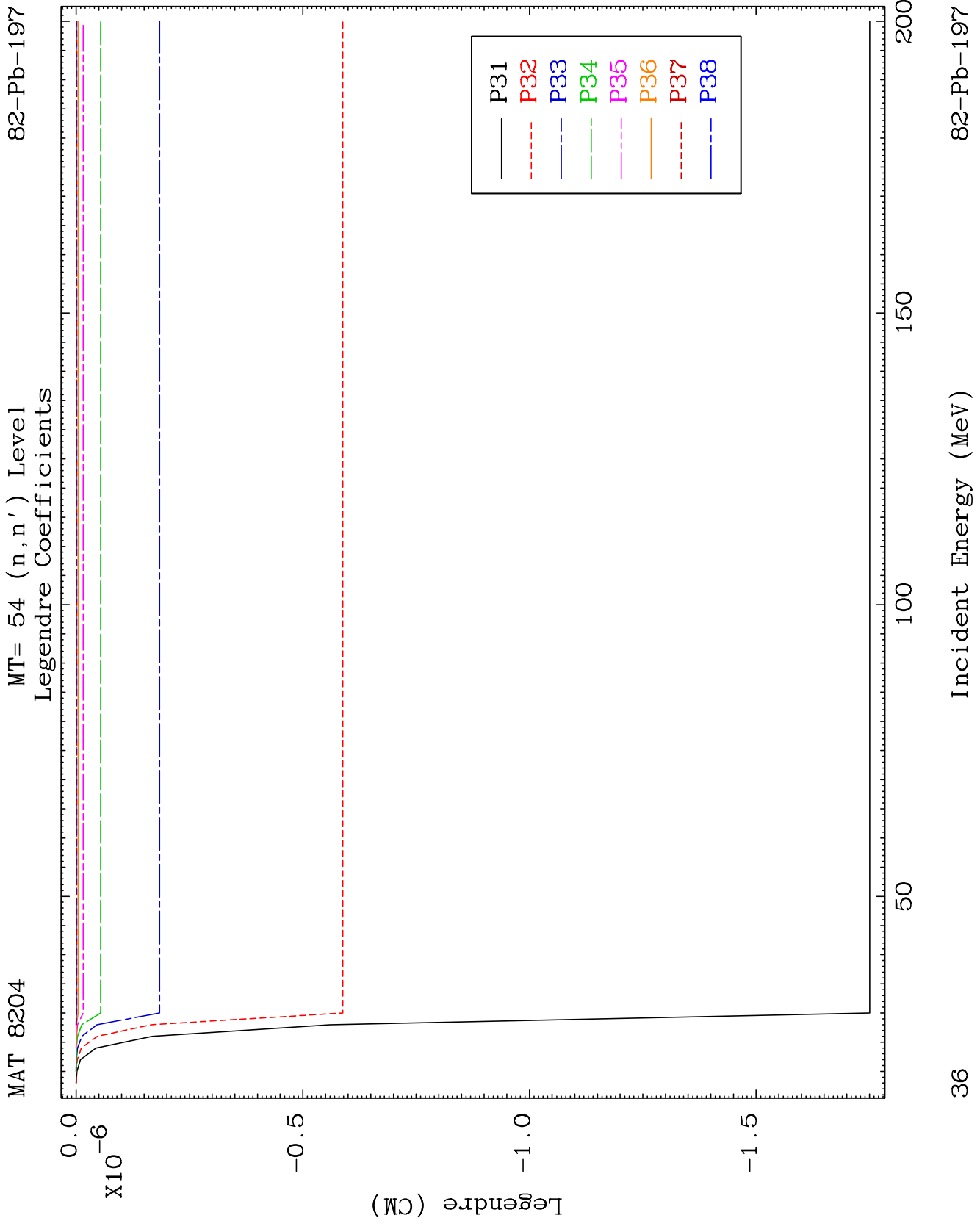
MAT 8204

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

82-Pb-197



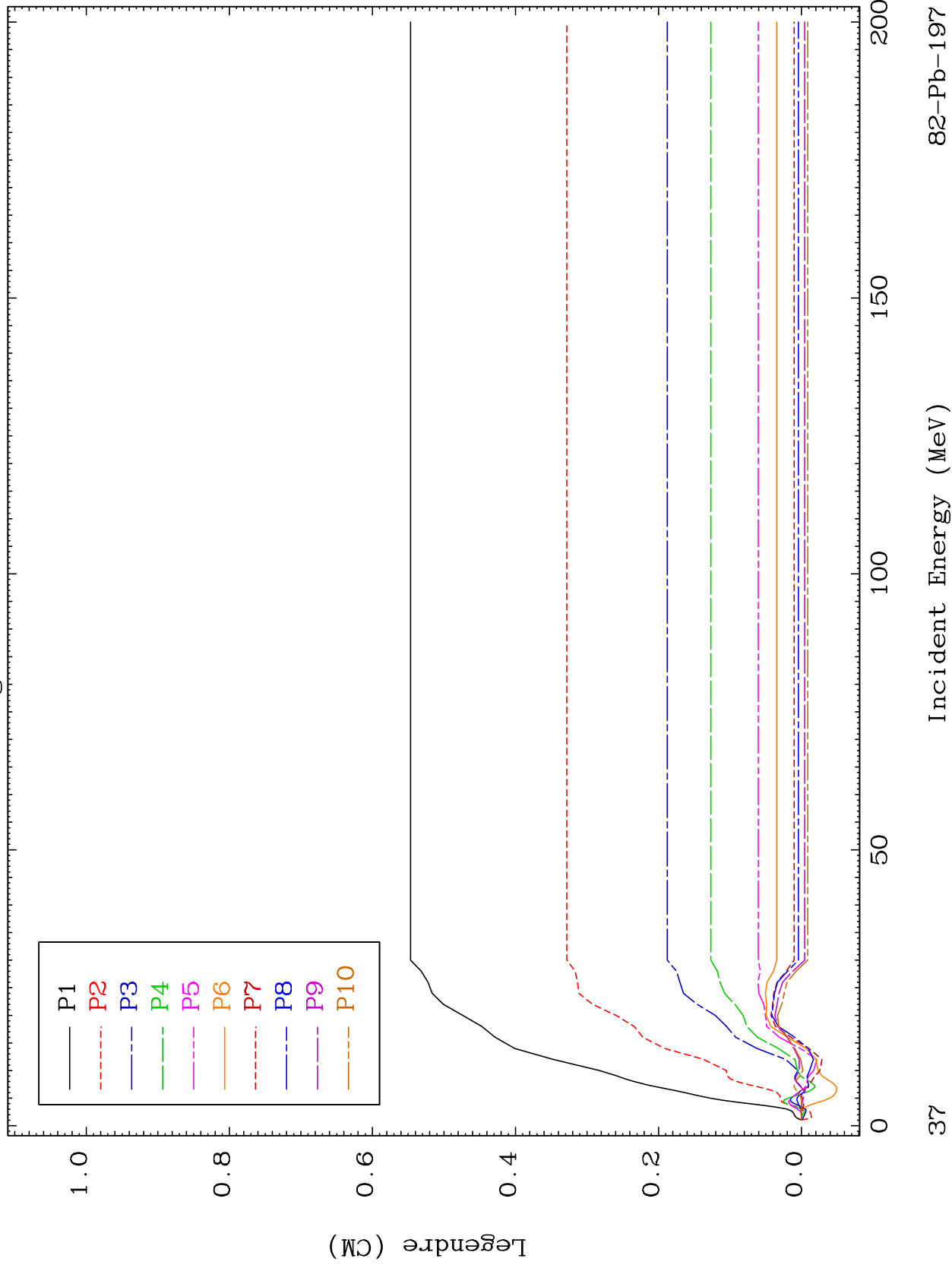




MAT 8204

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

82-Pb-197



82-Pb-197

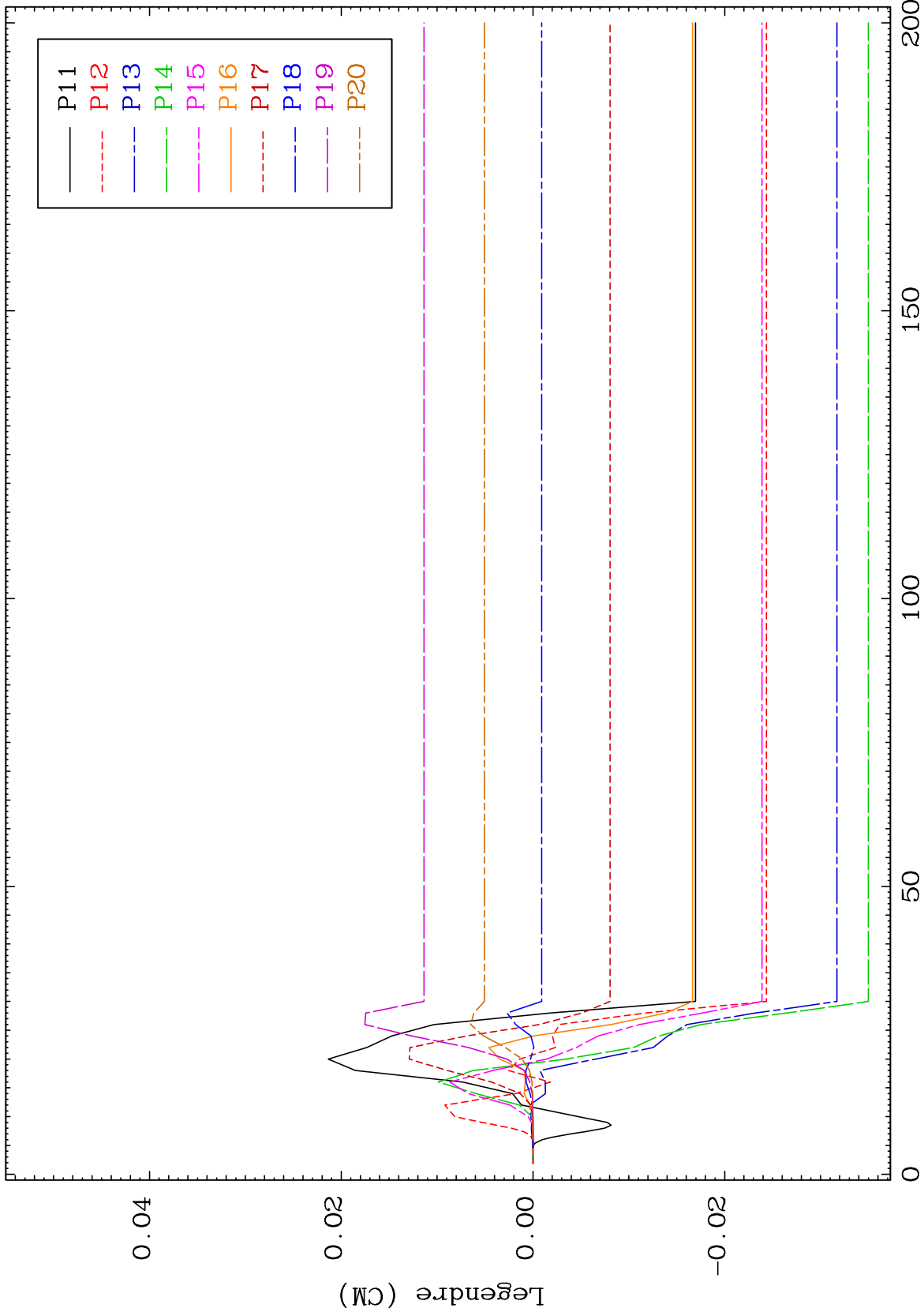
Incident Energy (MeV)

37

MAT 8204

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

82-Pb-197



38

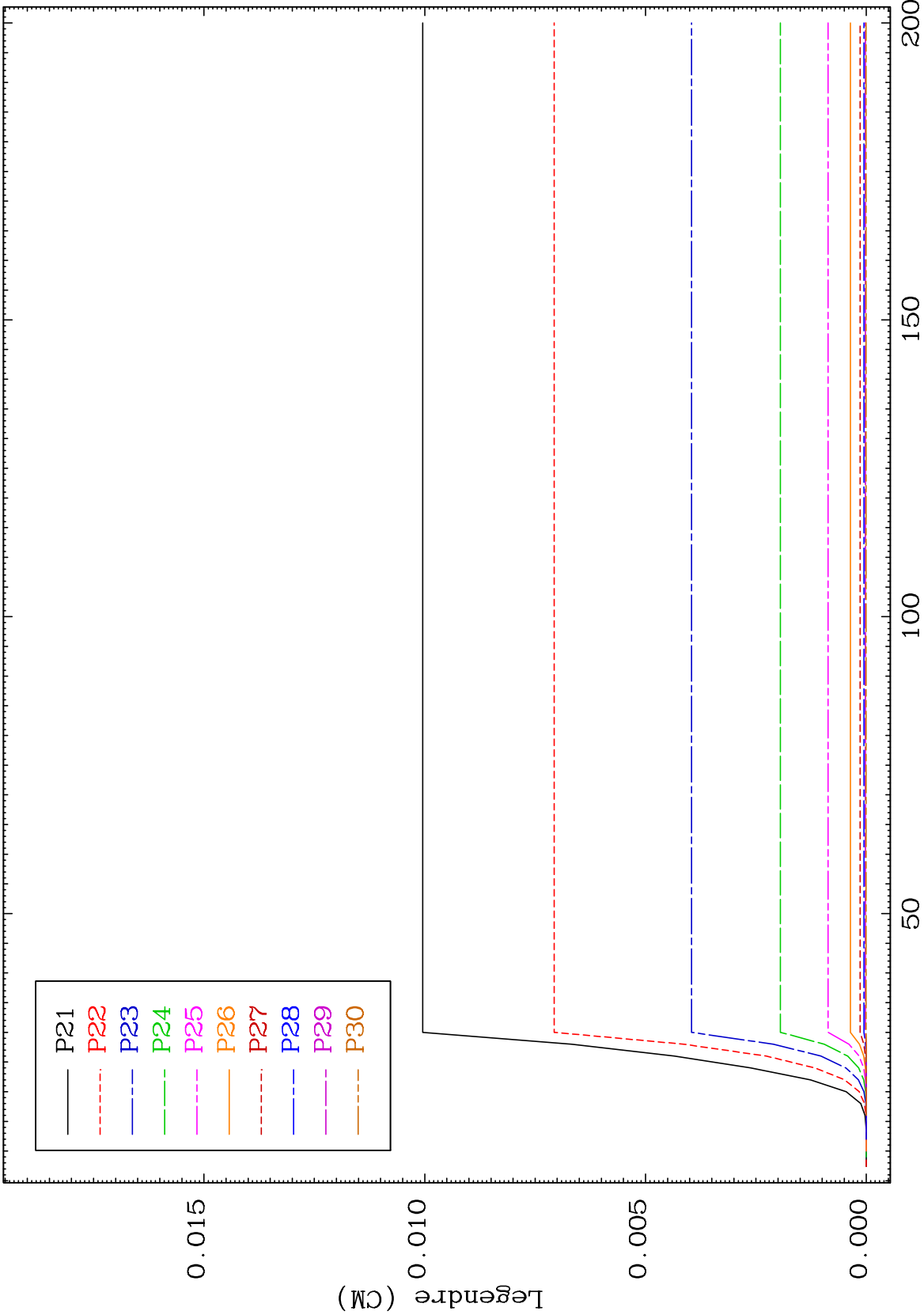
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

82-Pb-197



39

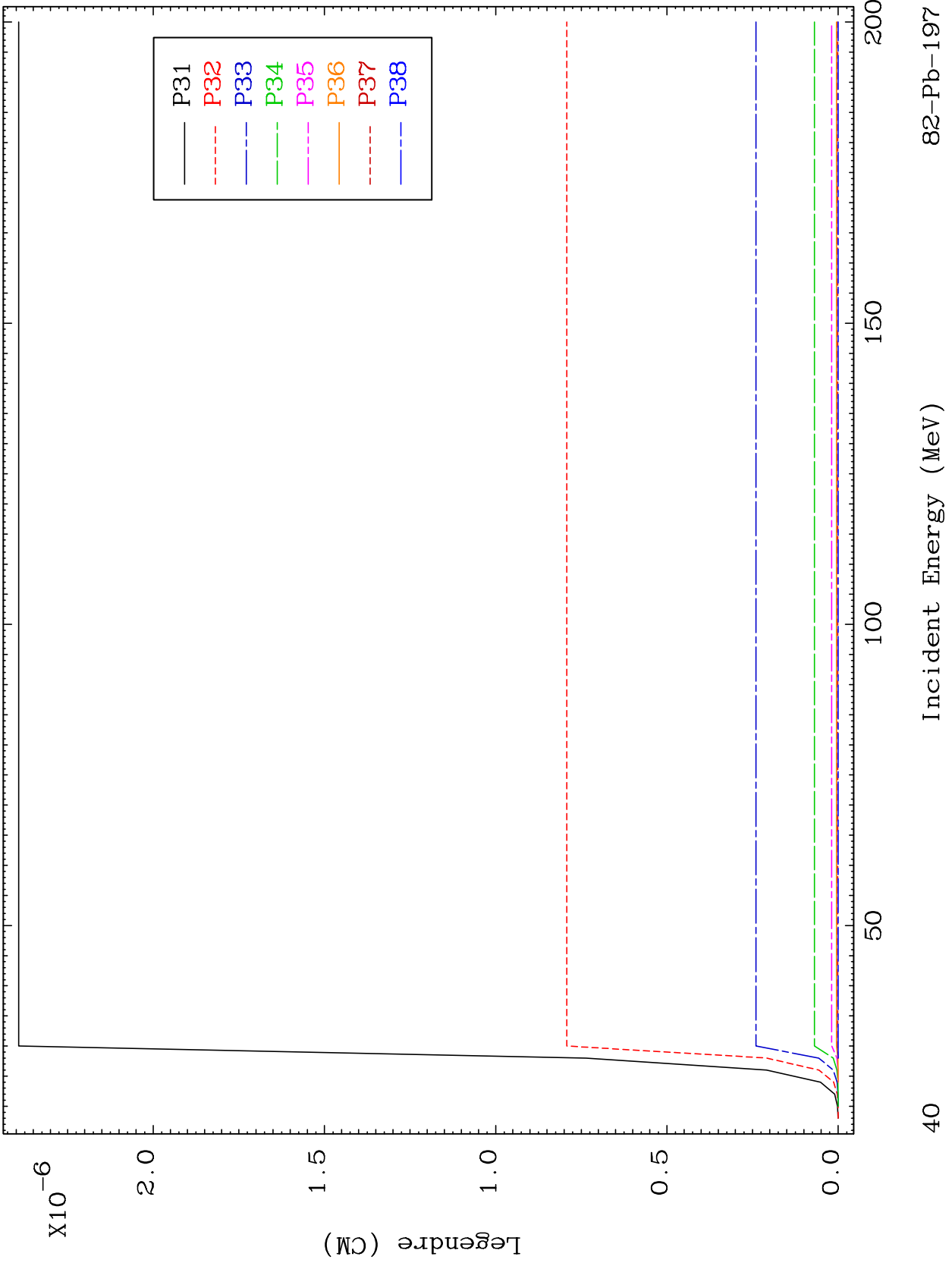
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

82-Pb-197

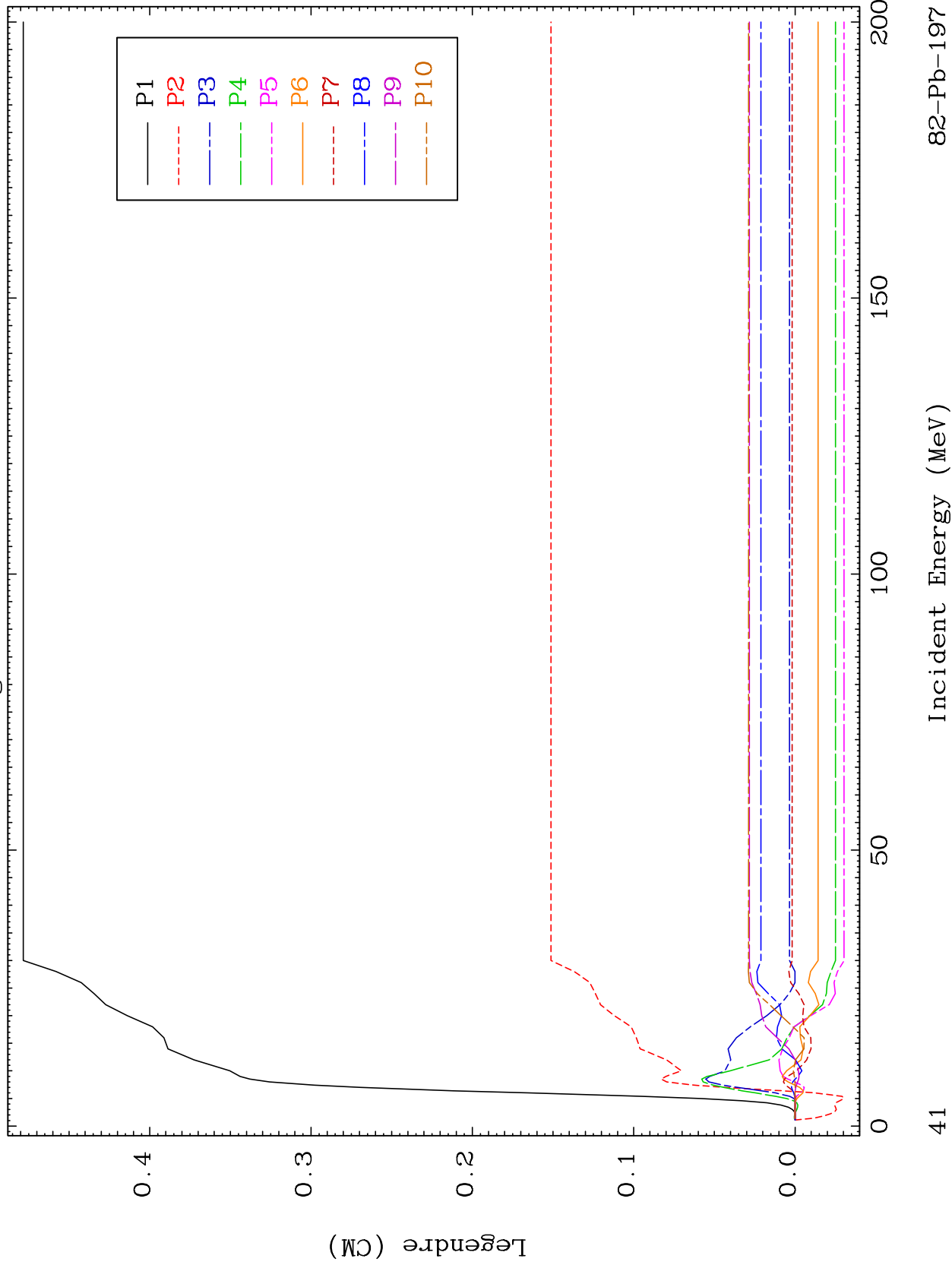


82-Pb-197

MAT 8204

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

82-Pb-197



82-Pb-197

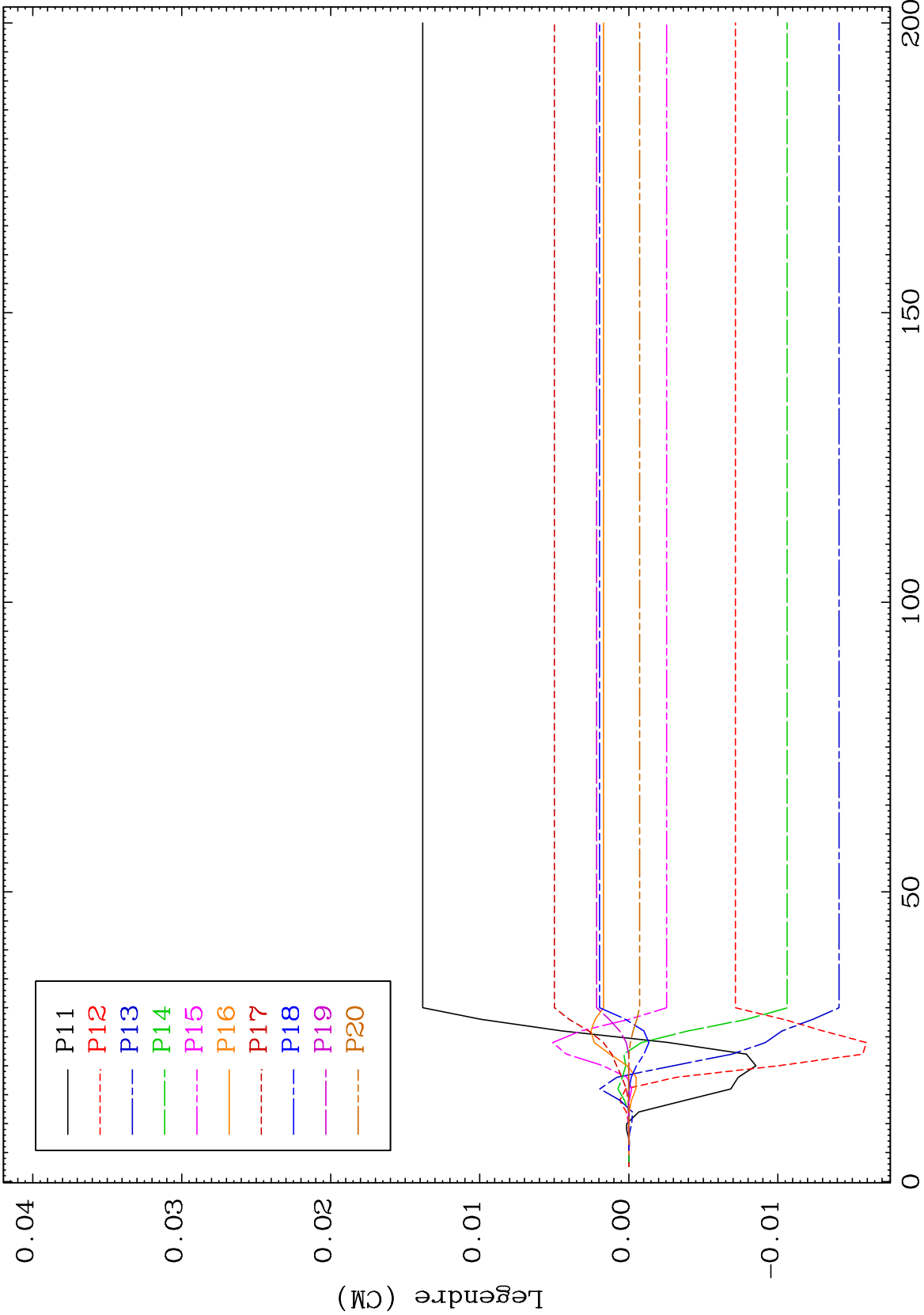
Incident Energy (MeV)

41

MAT 8204

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

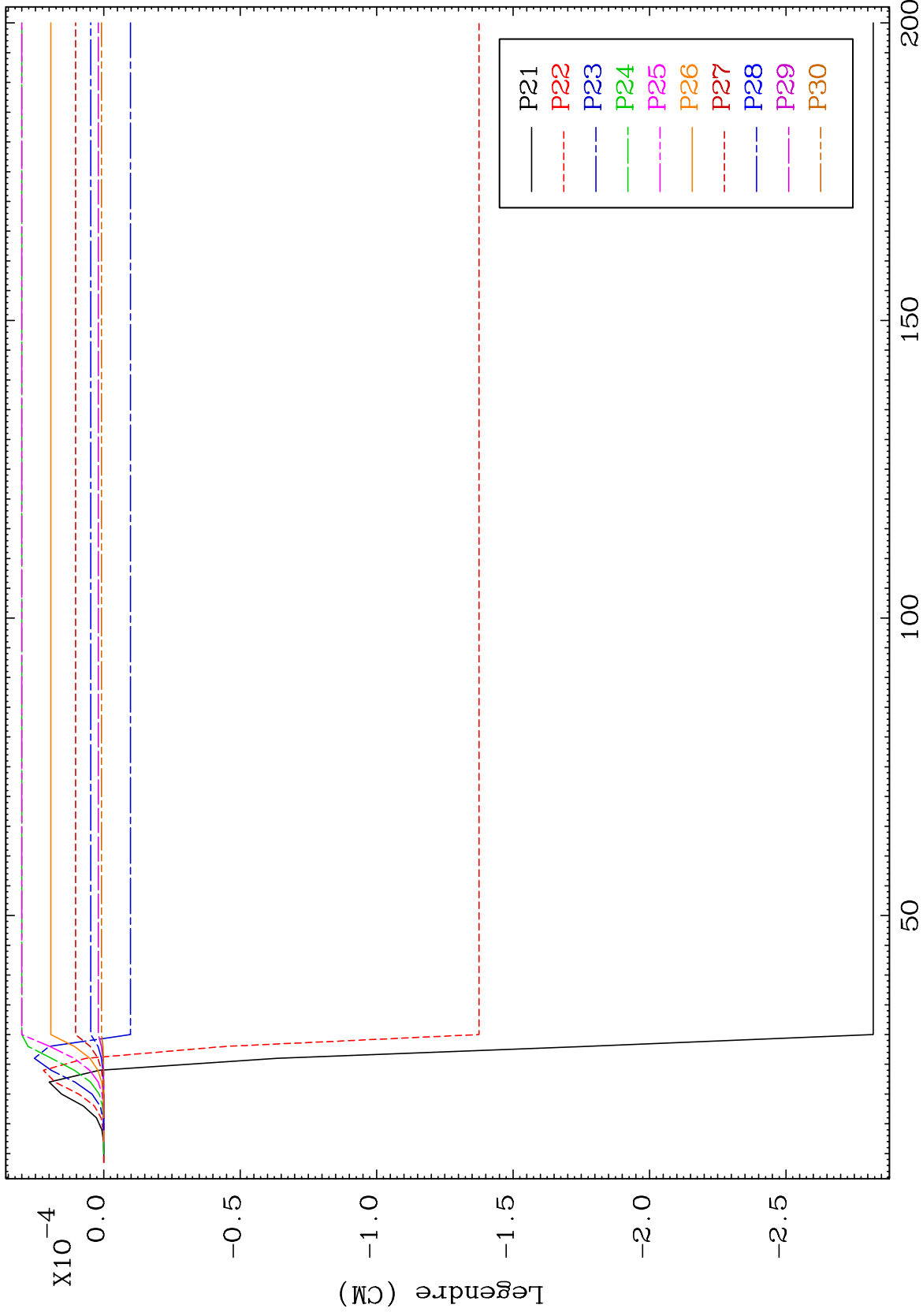
82-Pb-197



82-Pb-197

Incident Energy (MeV)

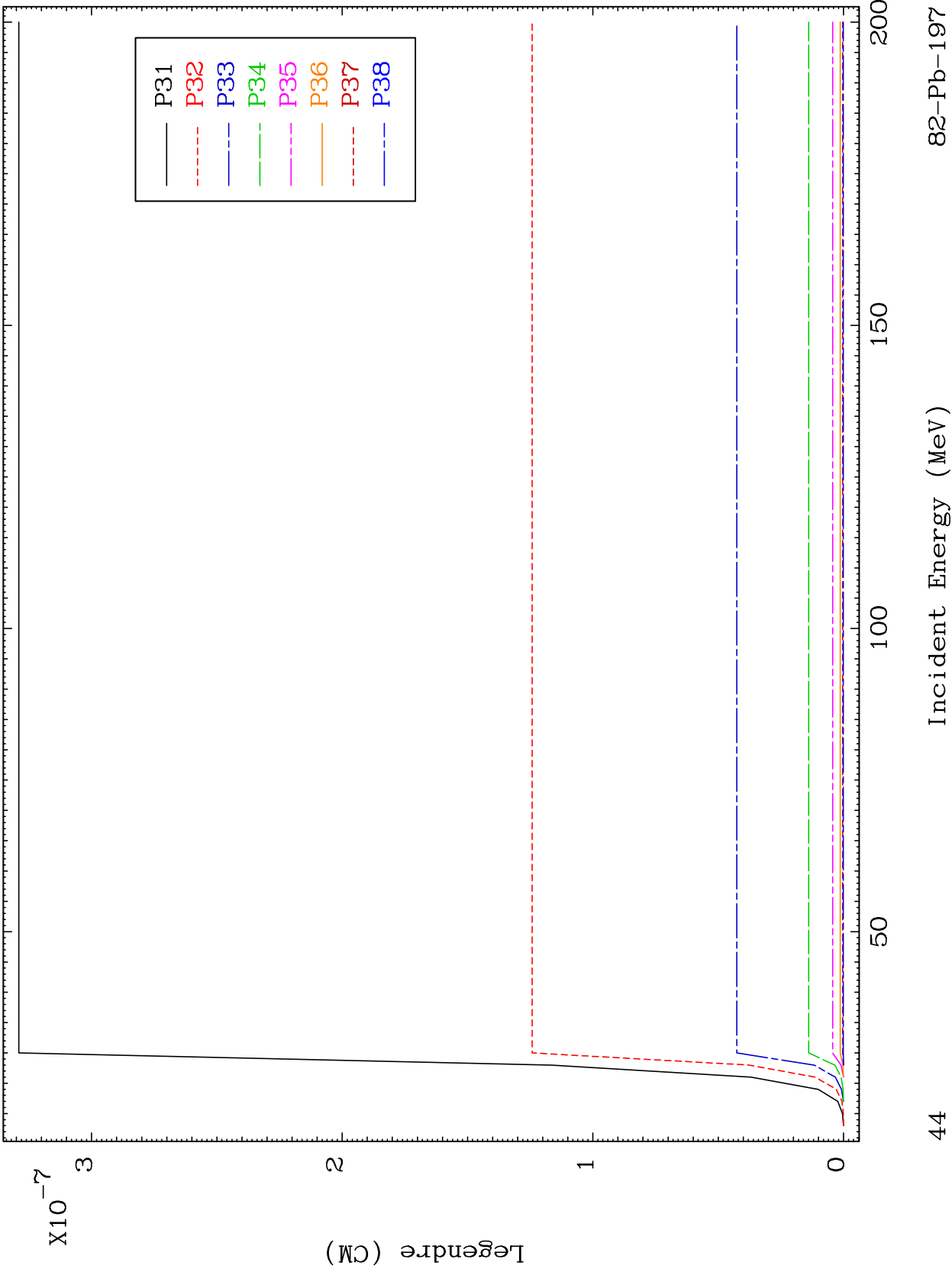
42



MAT 8204

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

82-Pb-197



44

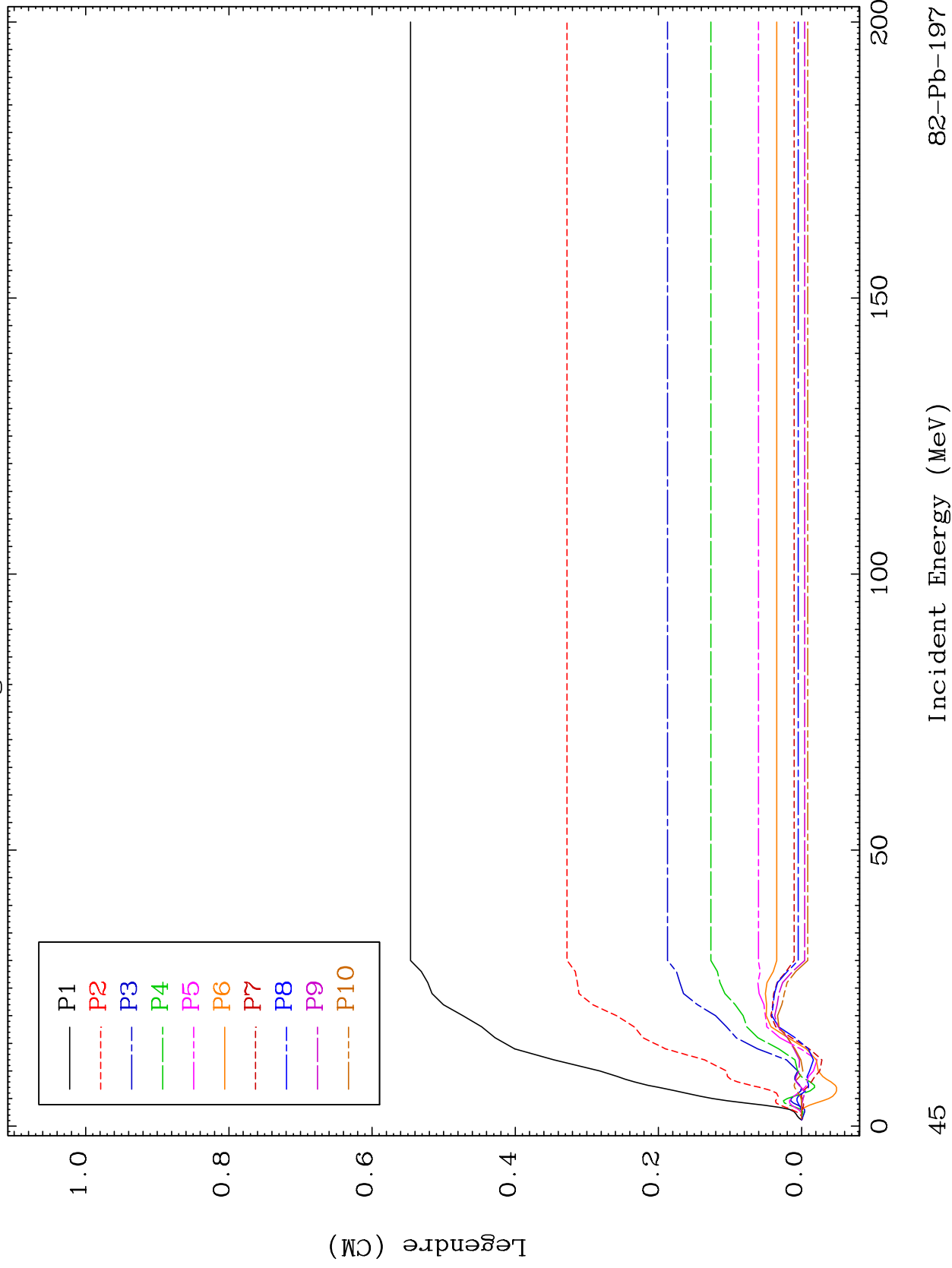
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

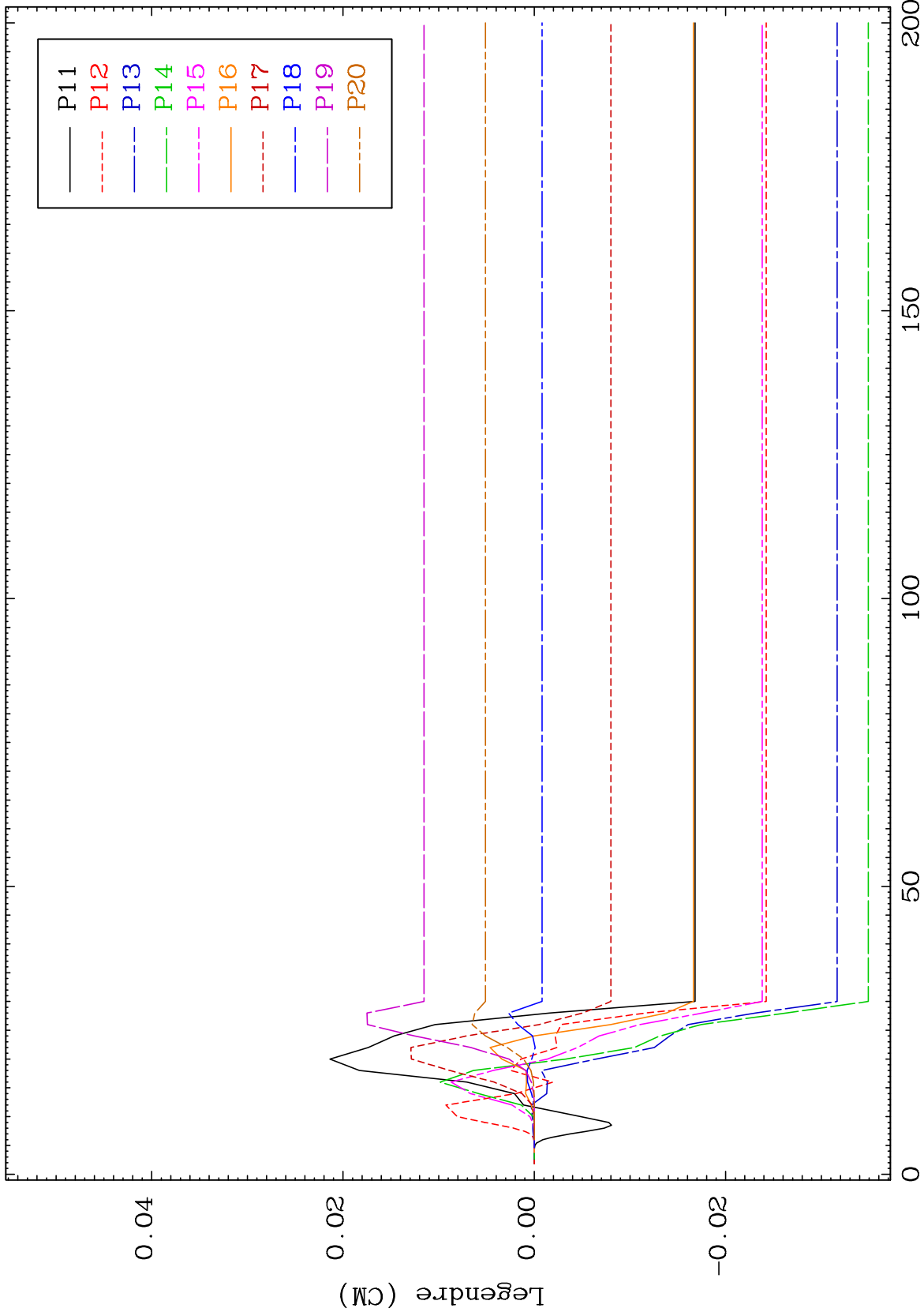
82-Pb-197



MAT 8204

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

82-Pb-197



46

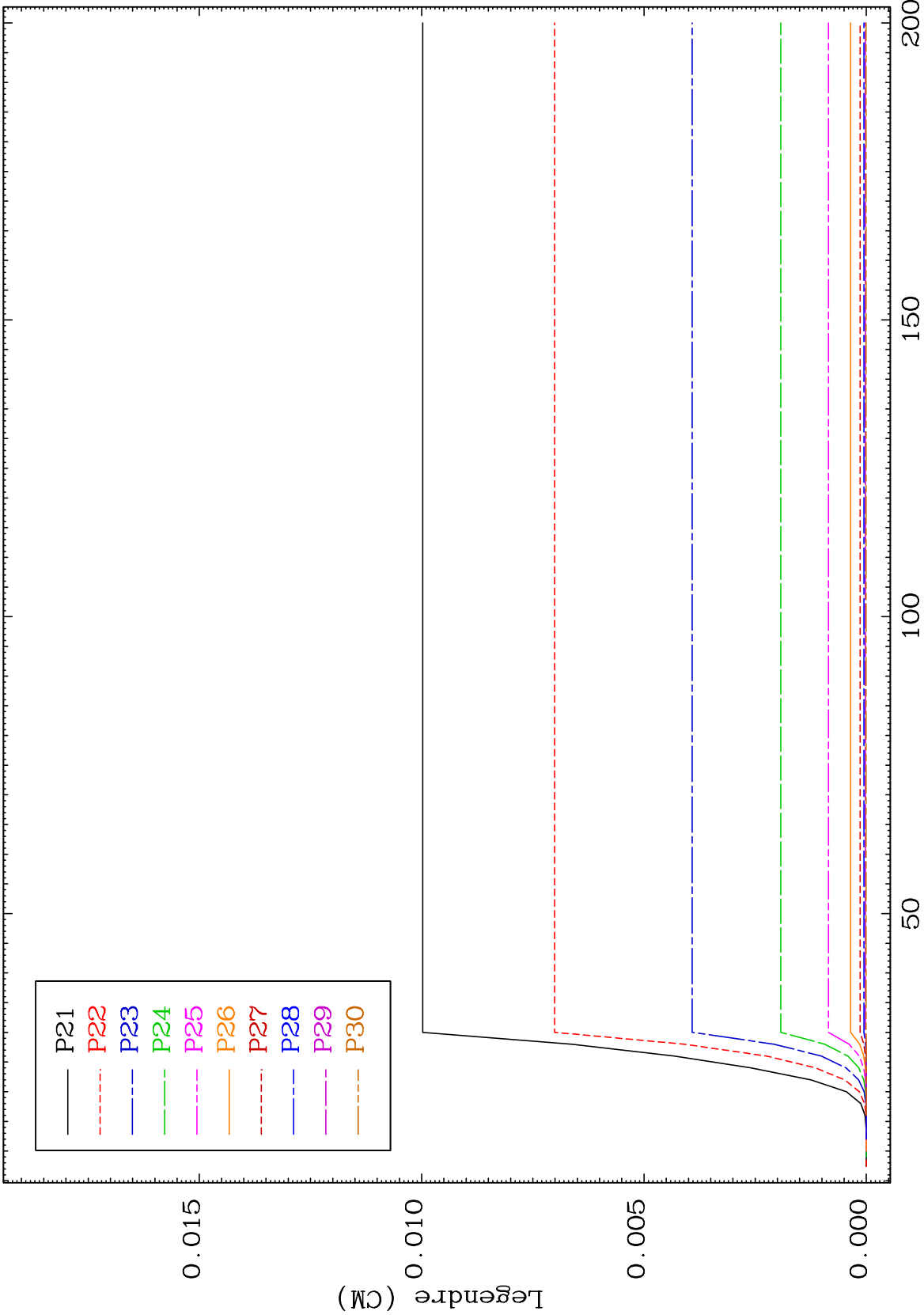
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

82-Pb-197



47

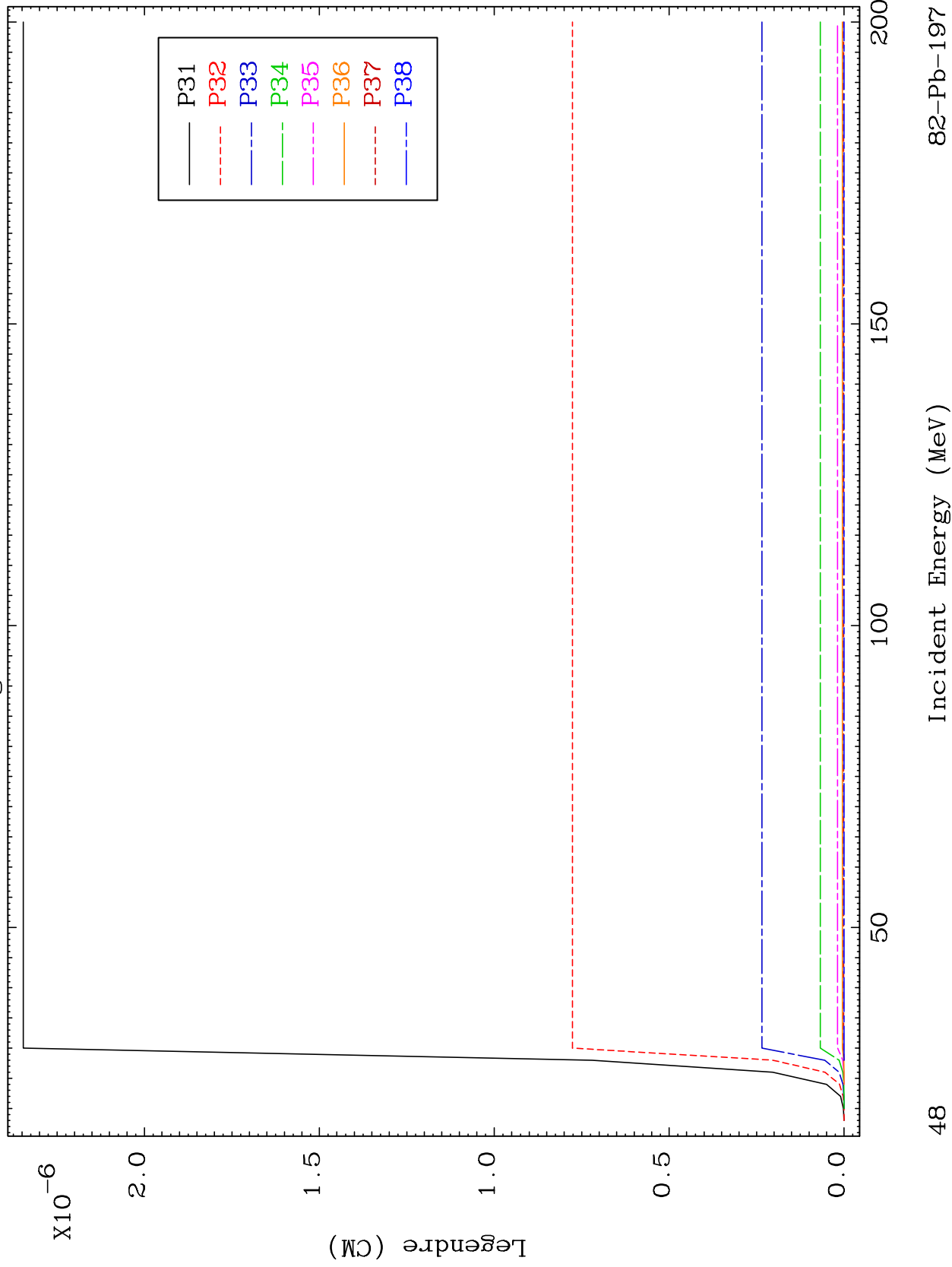
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

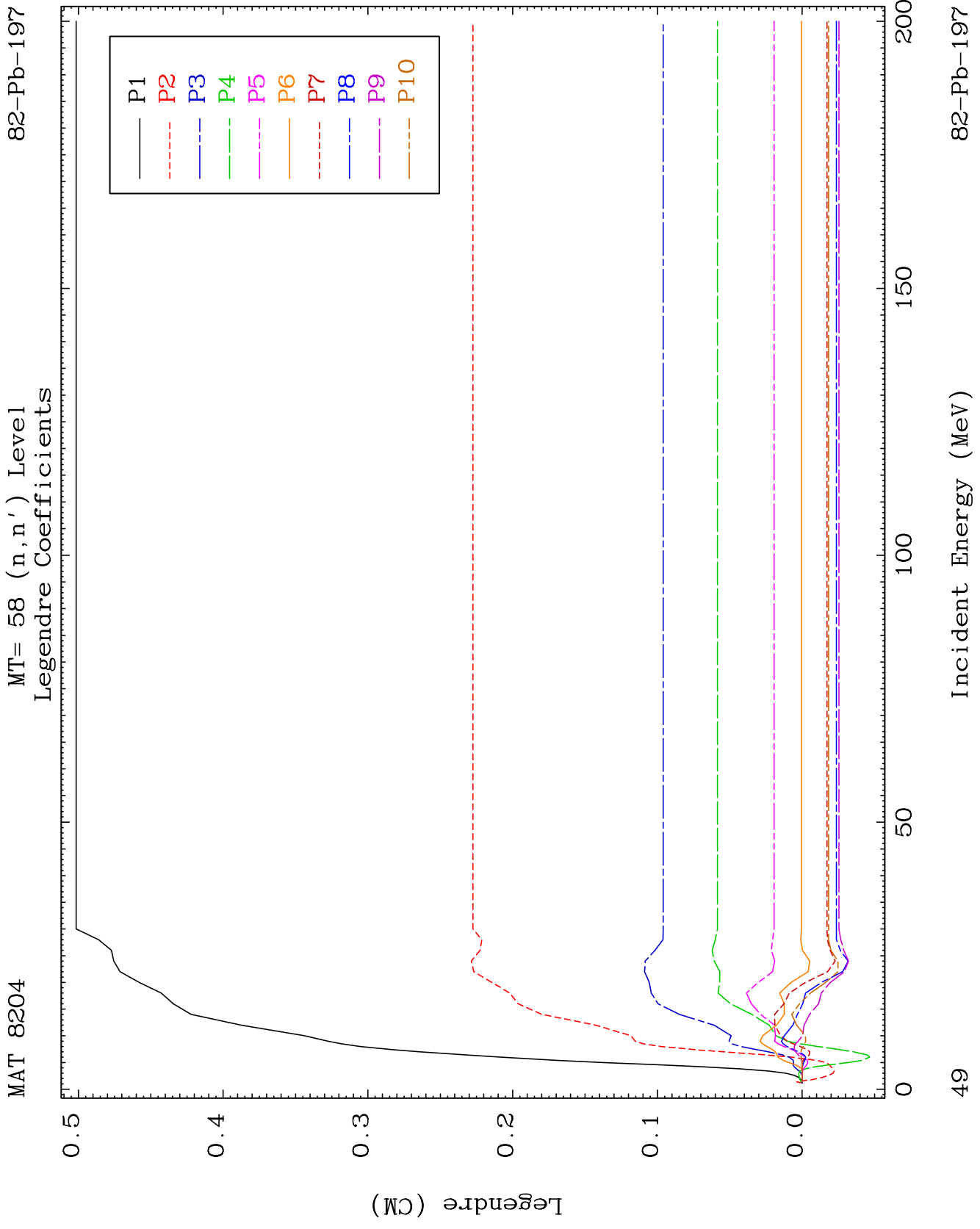
82-Pb-197



82-Pb-197

Incident Energy (MeV)

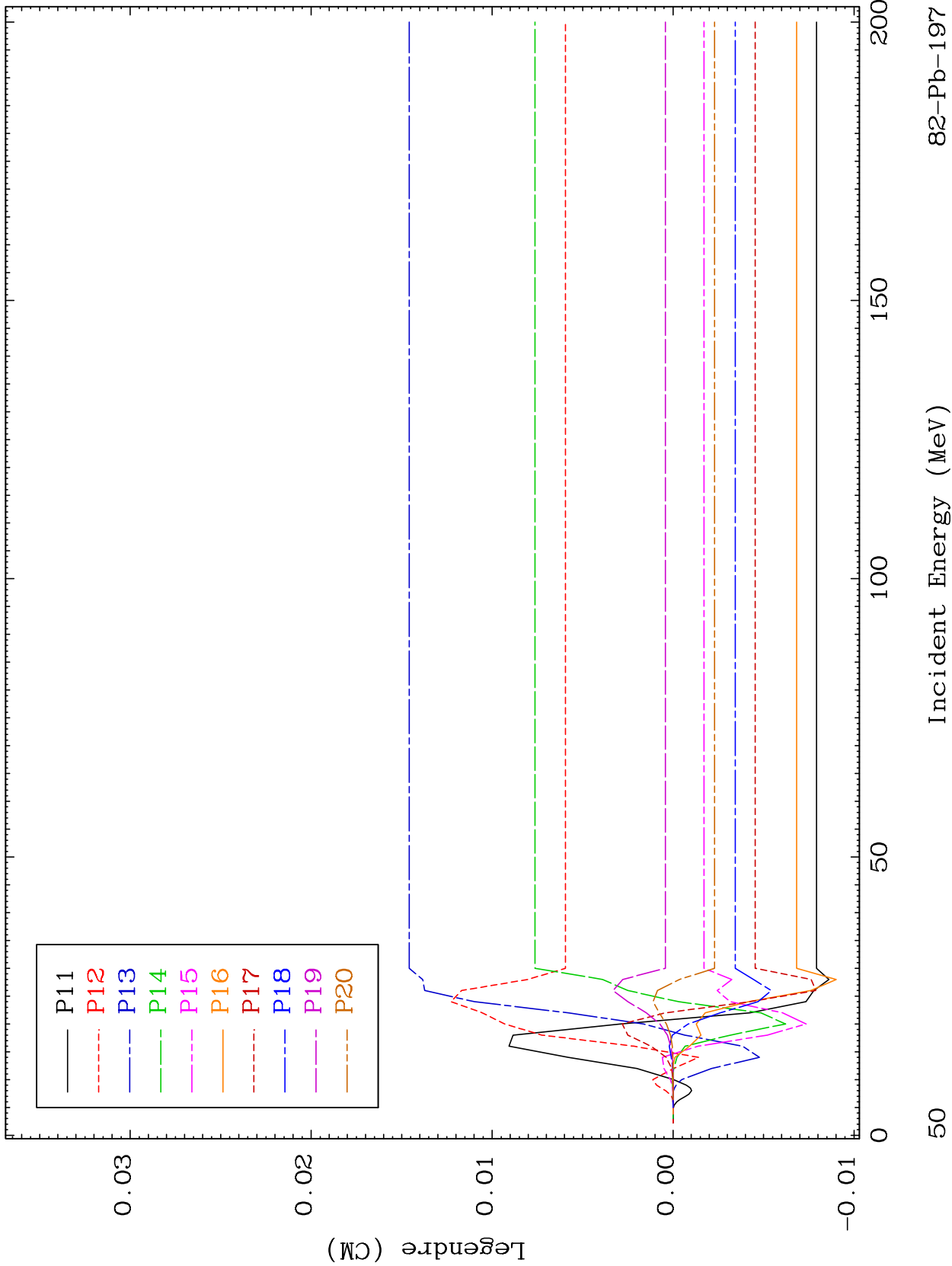
48



MAT 8204

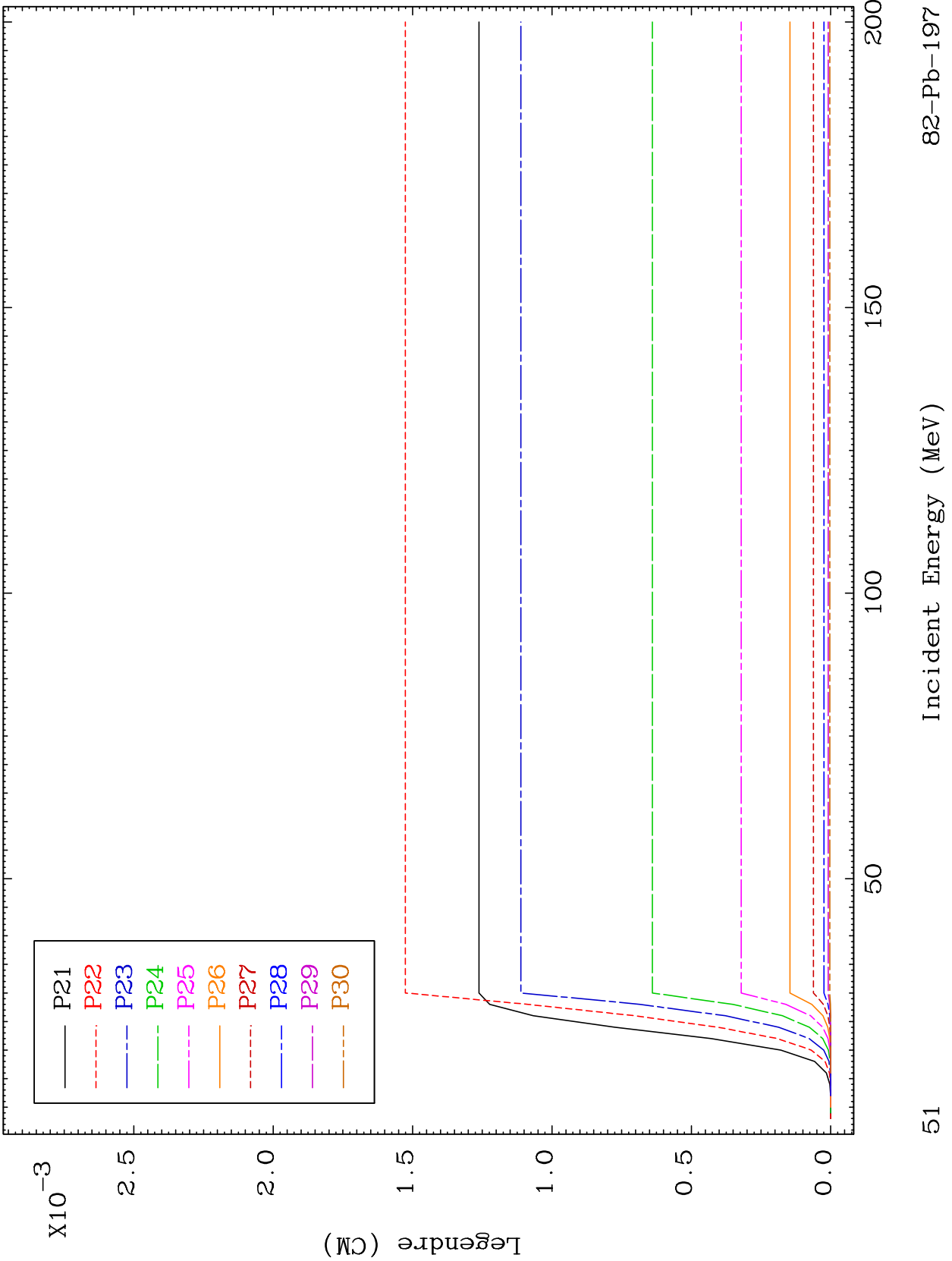
MT= 58 (n,n') Level  
Legendre Coefficients

82-Pb-197



82-Pb-197

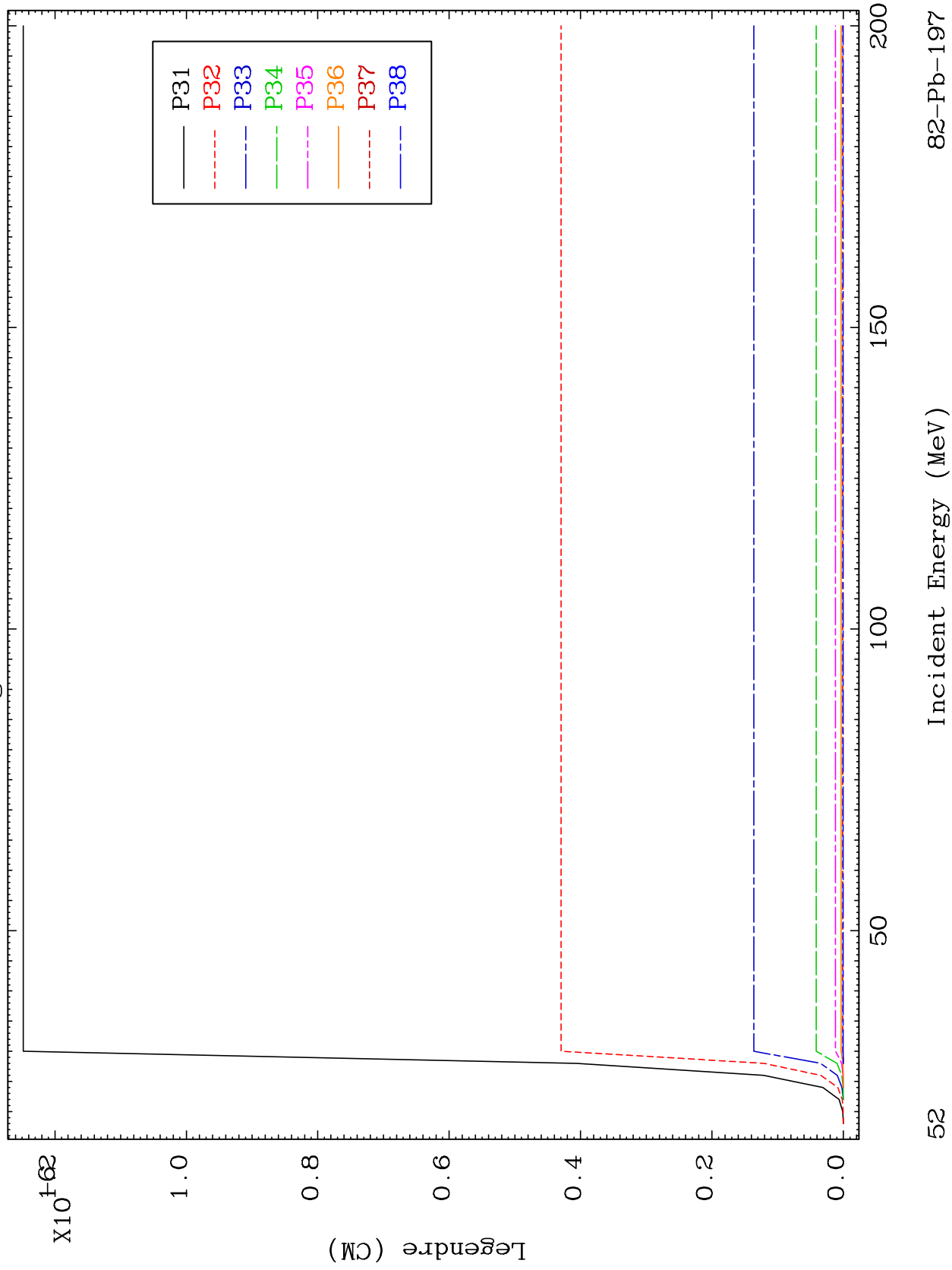
Incident Energy (MeV)



MAT 8204

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

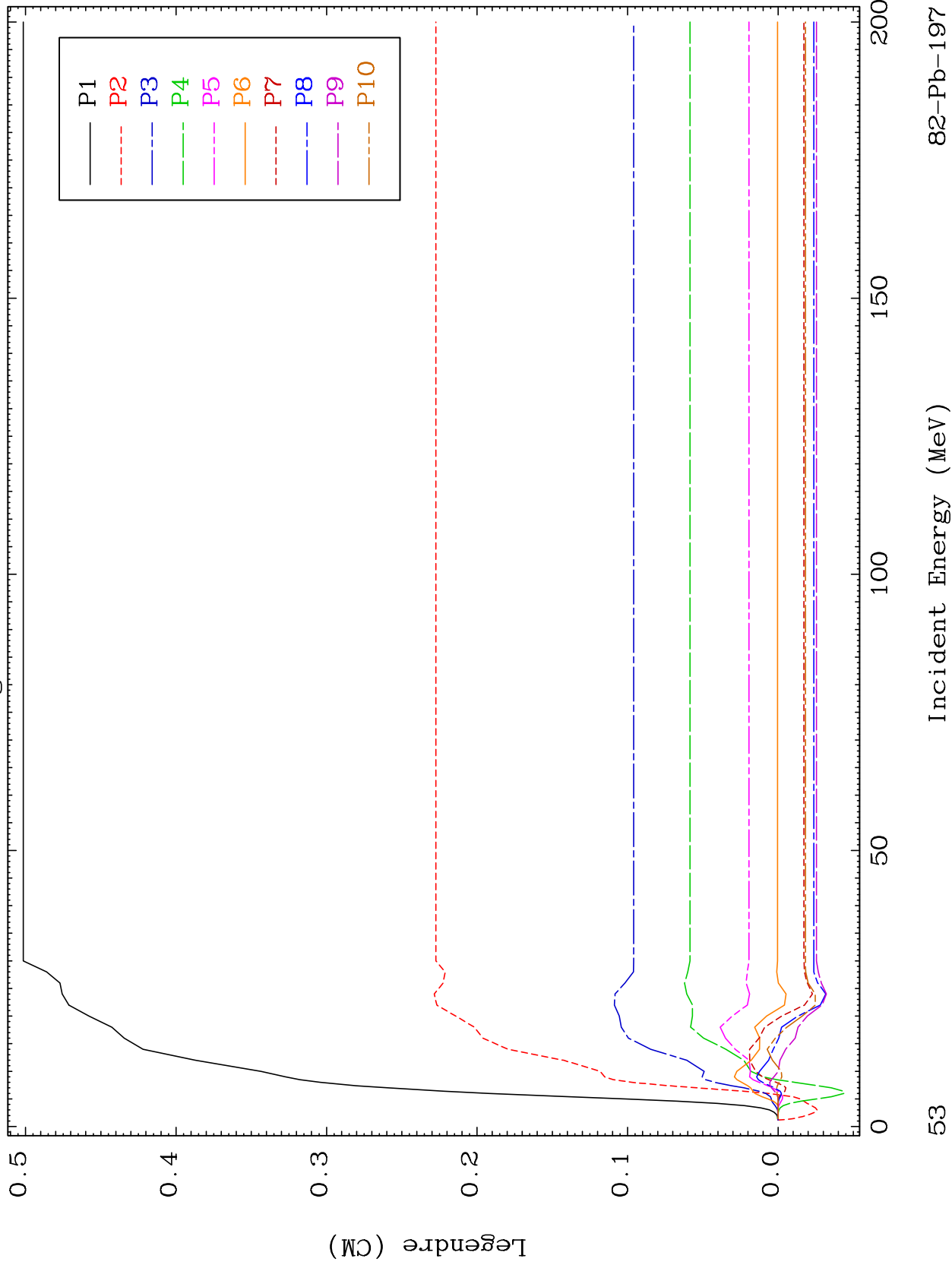
82-Pb-197



MAT 8204

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

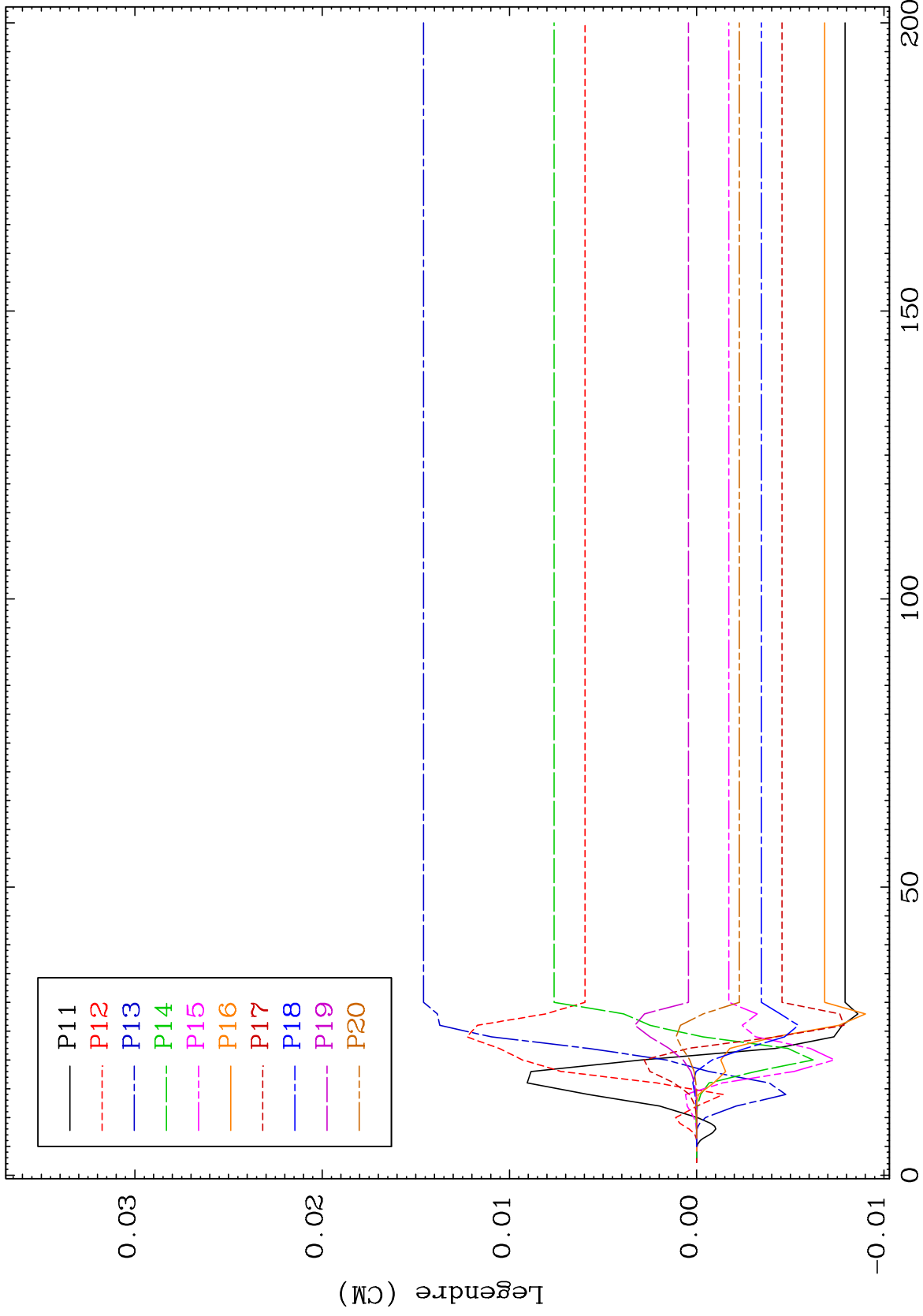
82-Pb-197



MAT 8204

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

82-Pb-197



54

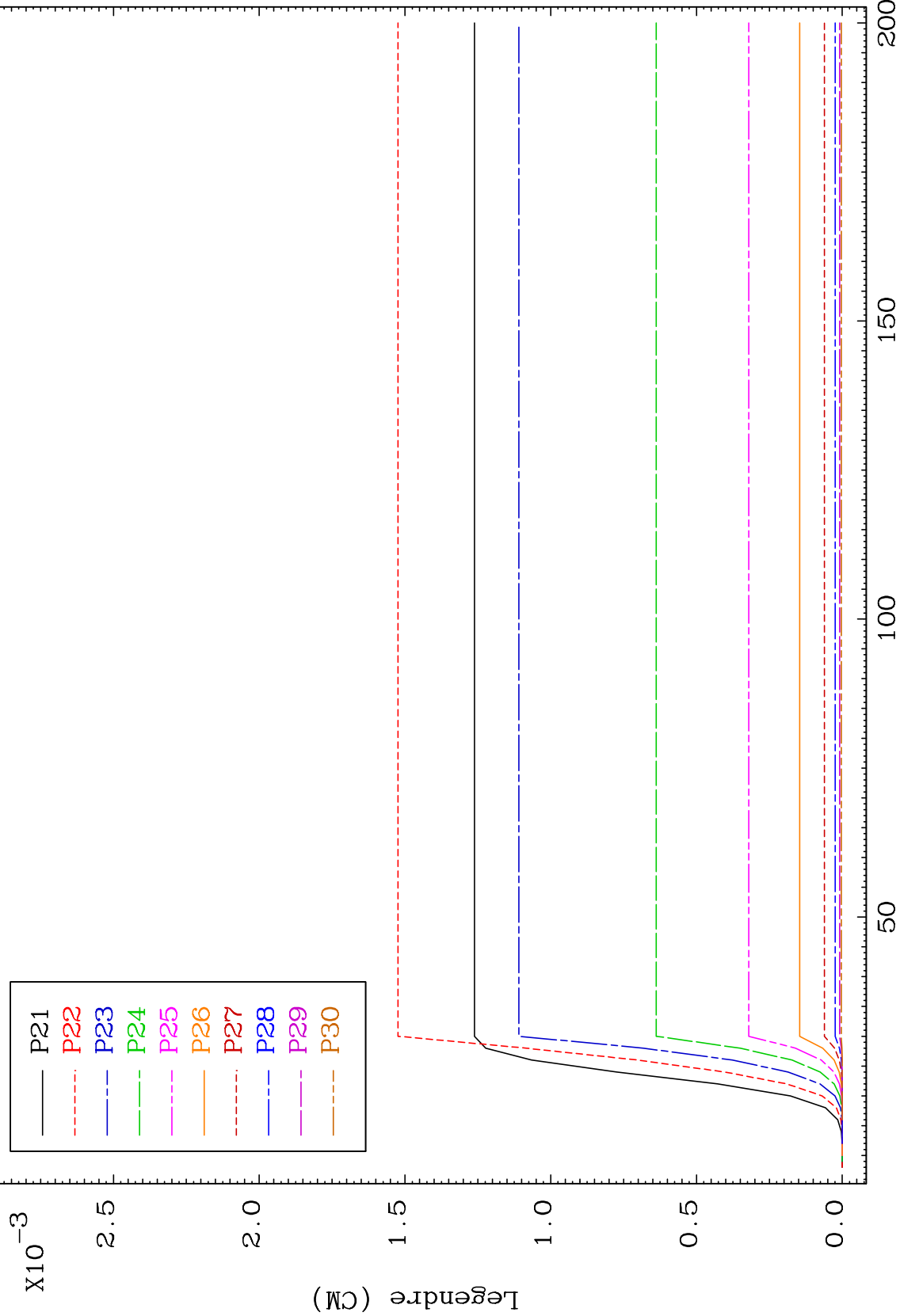
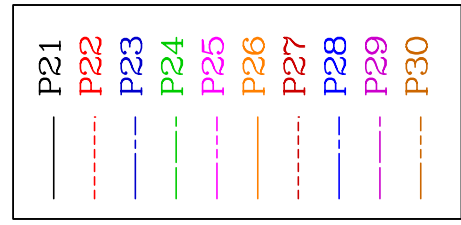
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

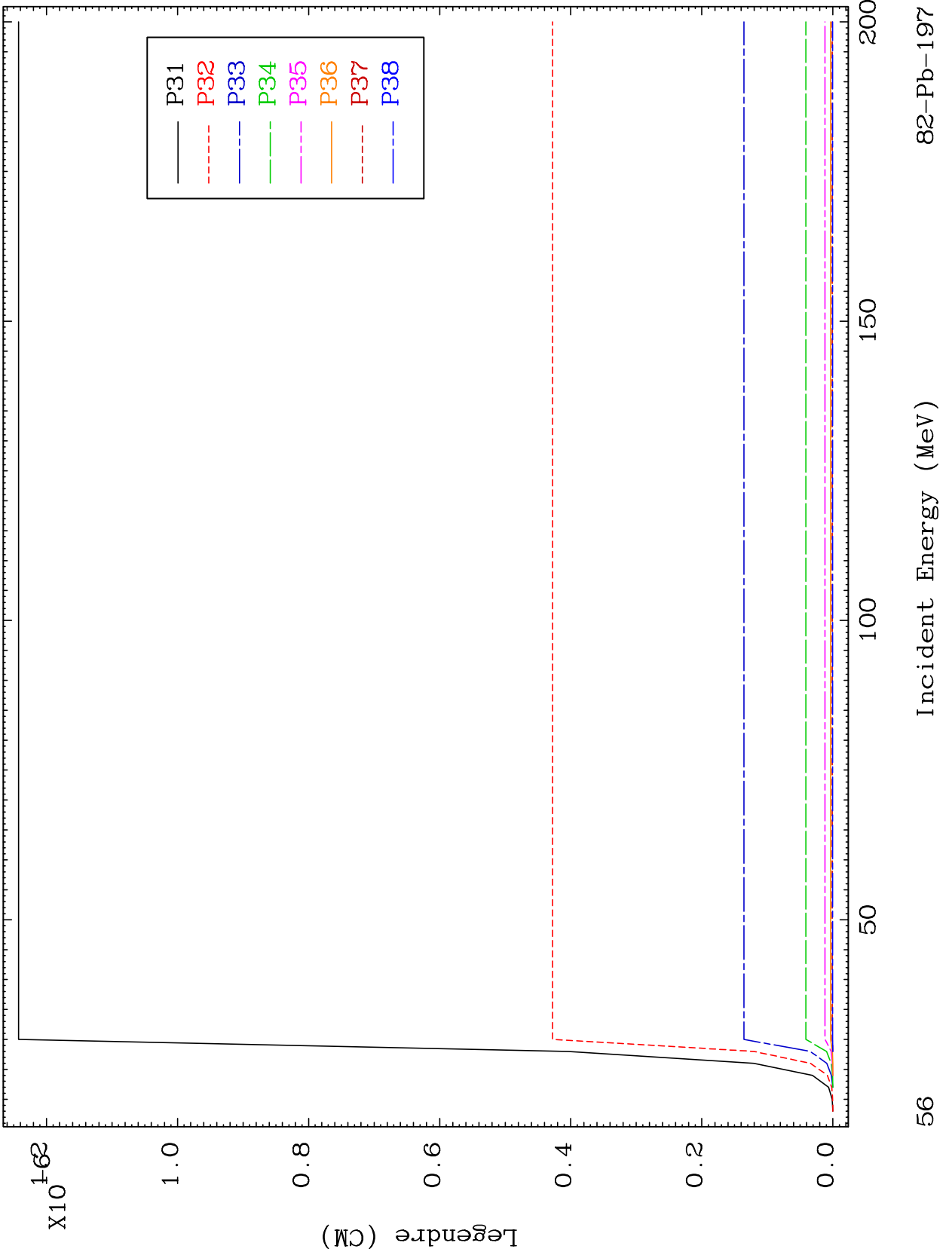
82-Pb-197



55

Incident Energy (MeV)

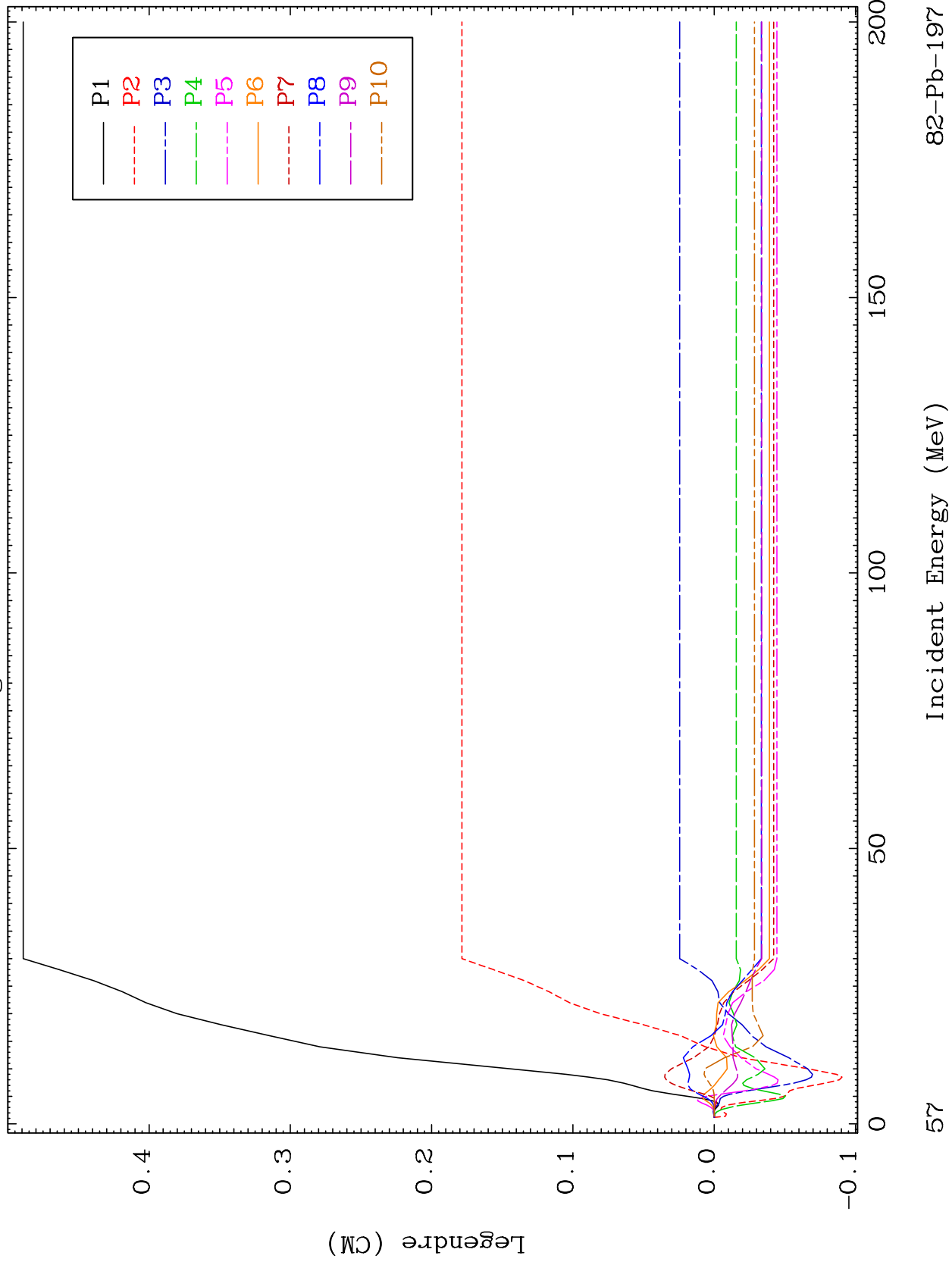
82-Pb-197



MAT 8204

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

82-Pb-197



82-Pb-197

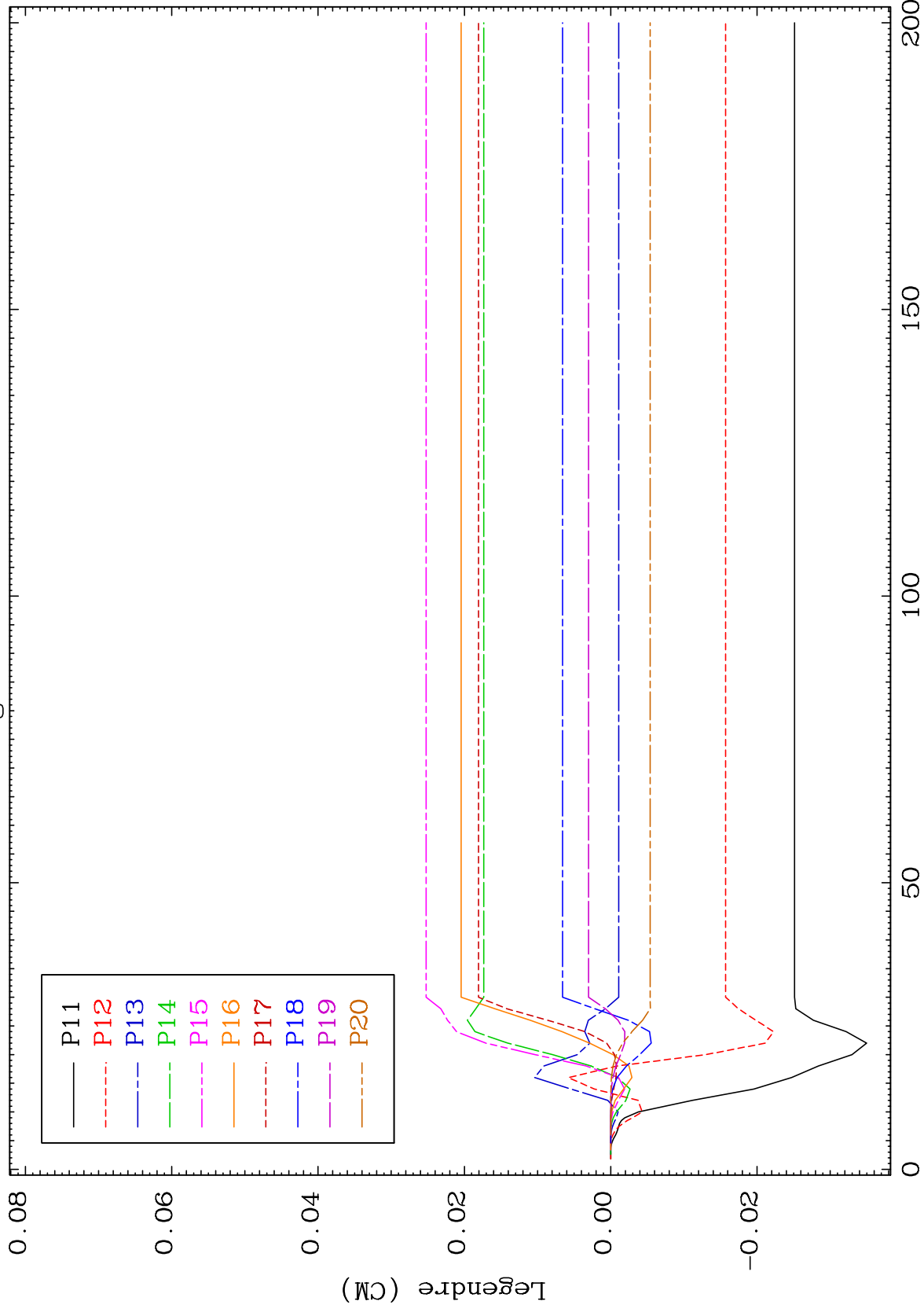
Incident Energy (MeV)

57

MAT 8204

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

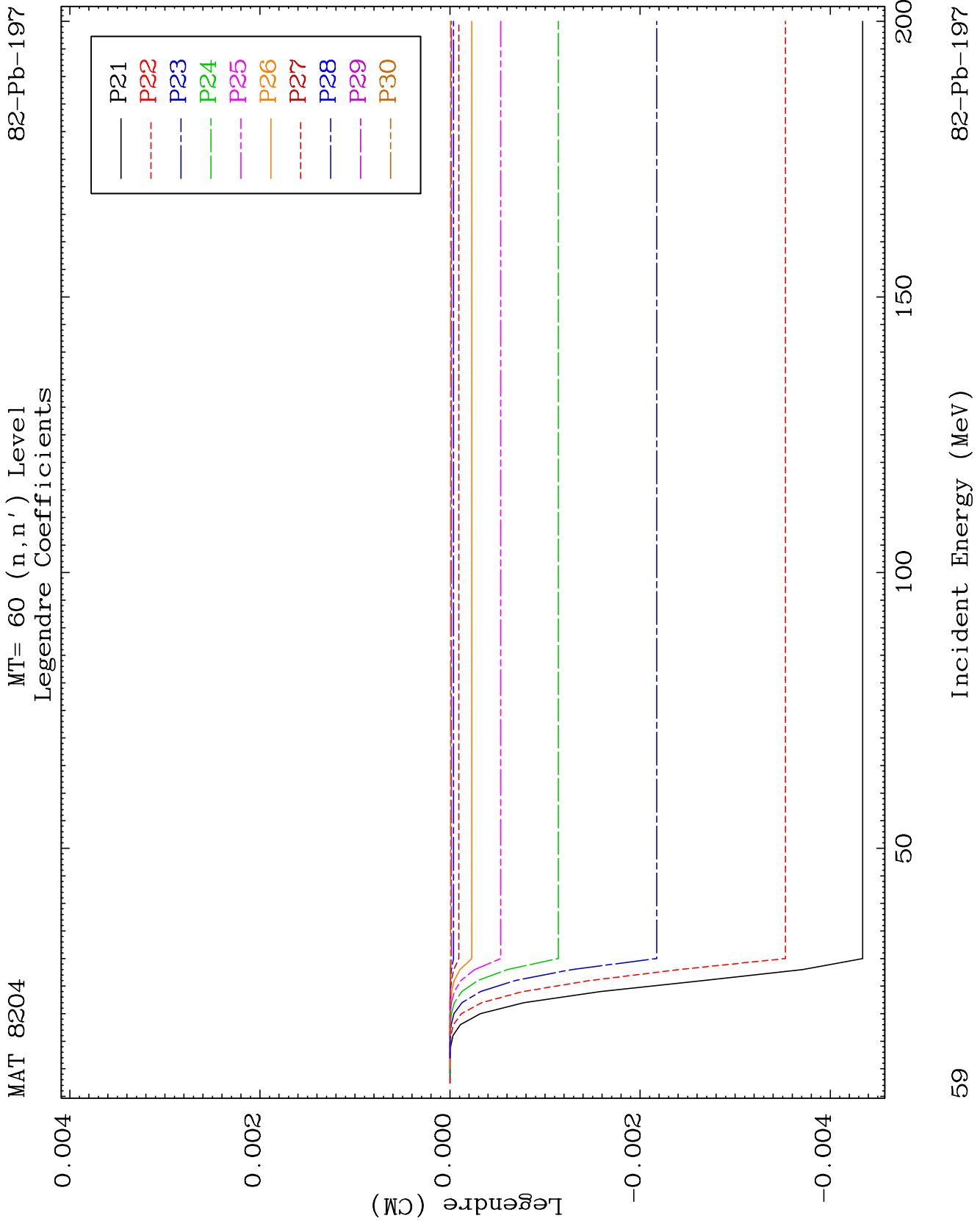
82-Pb-197

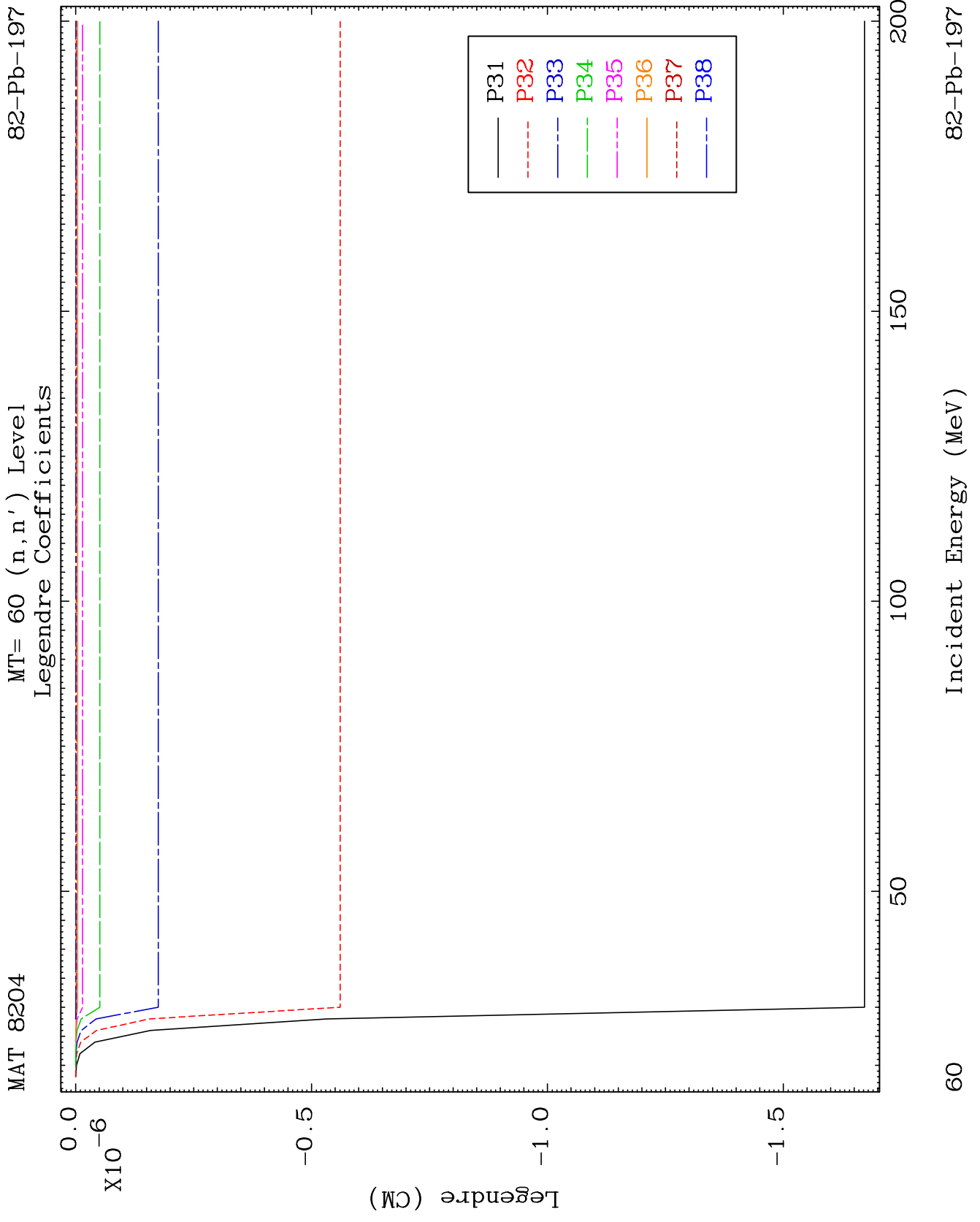


58

Incident Energy (MeV)

82-Pb-197

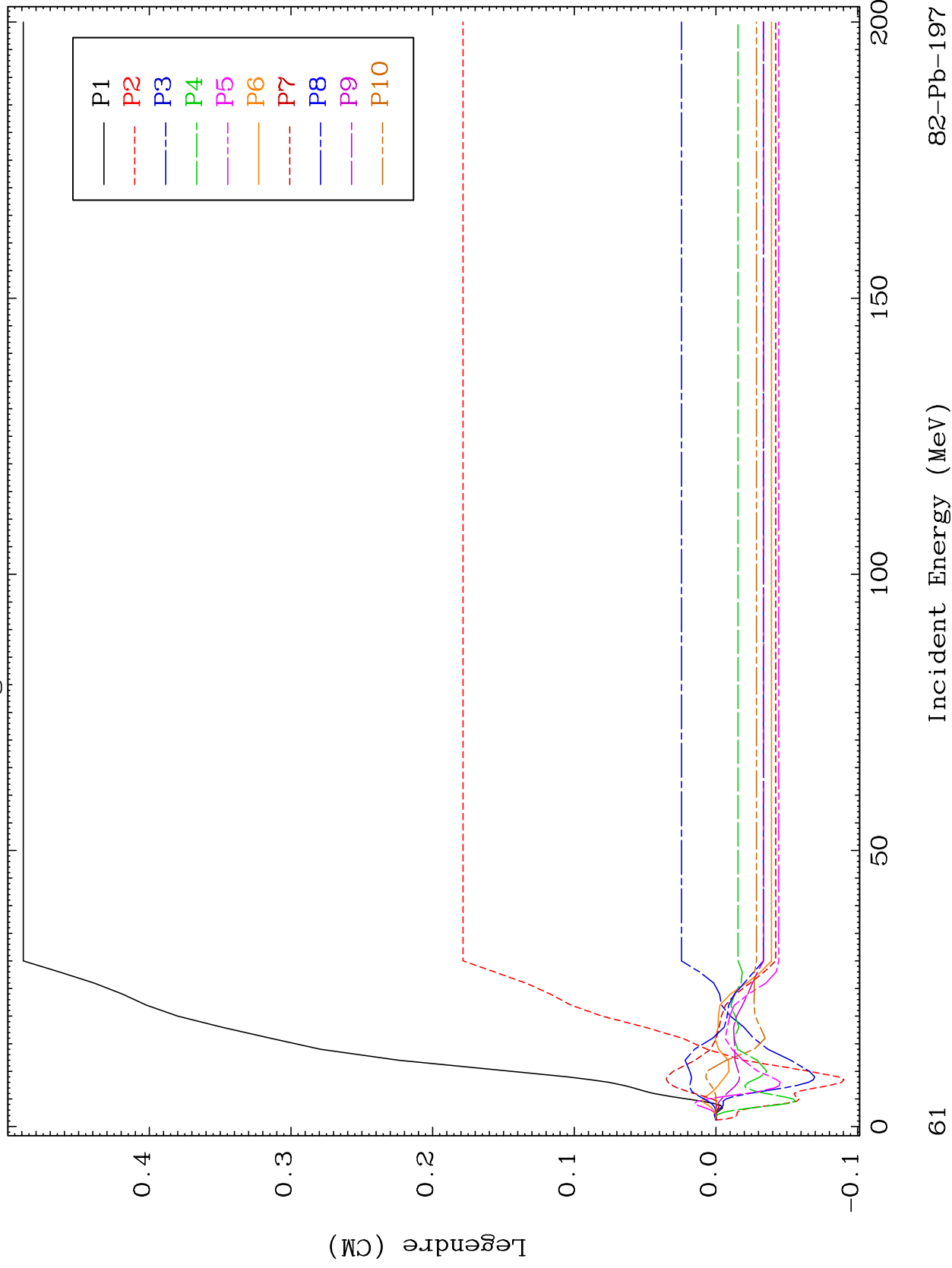




MAT 8204

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

82-Pb-197



82-Pb-197

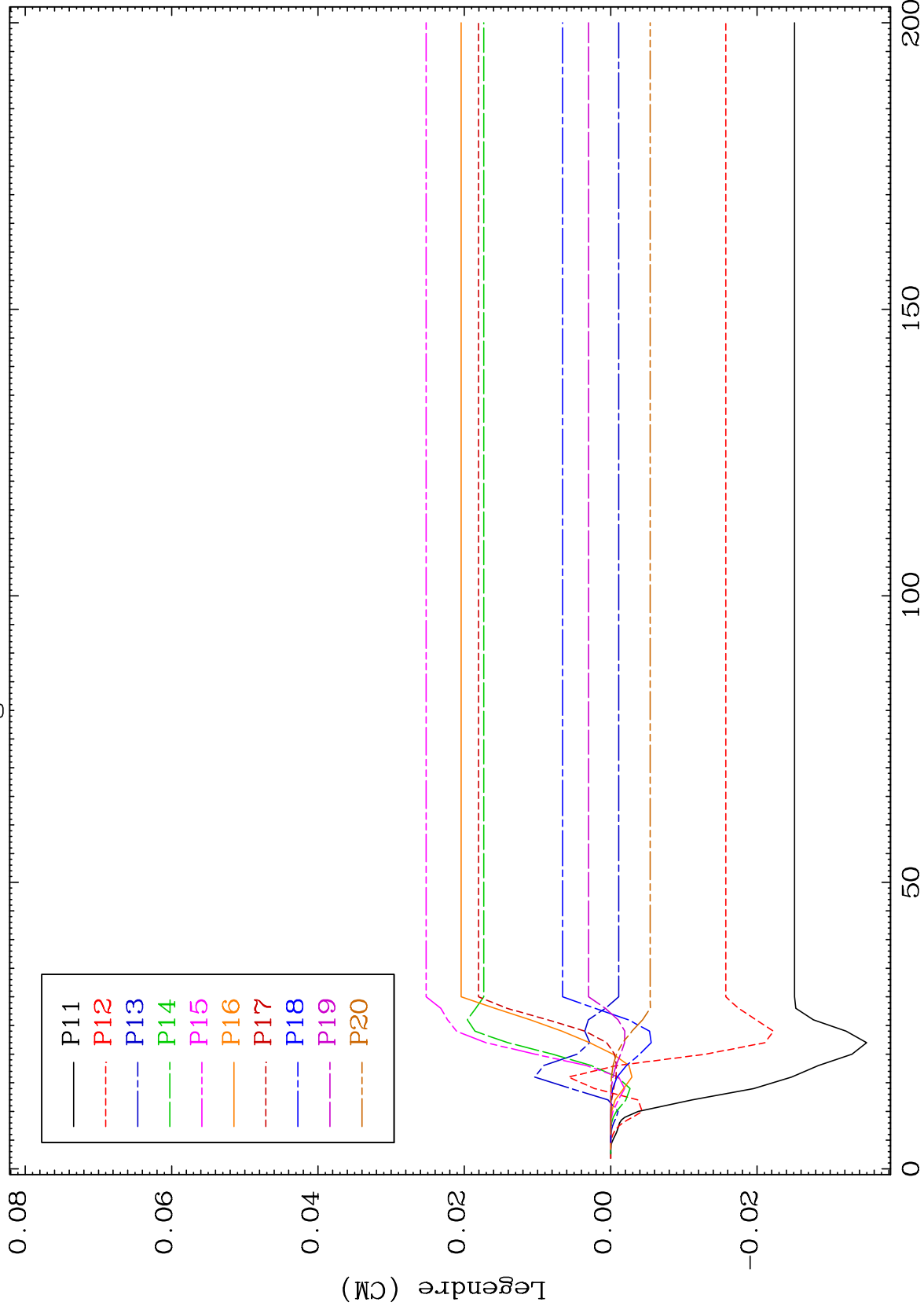
Incident Energy (MeV)

61

MAT 8204

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

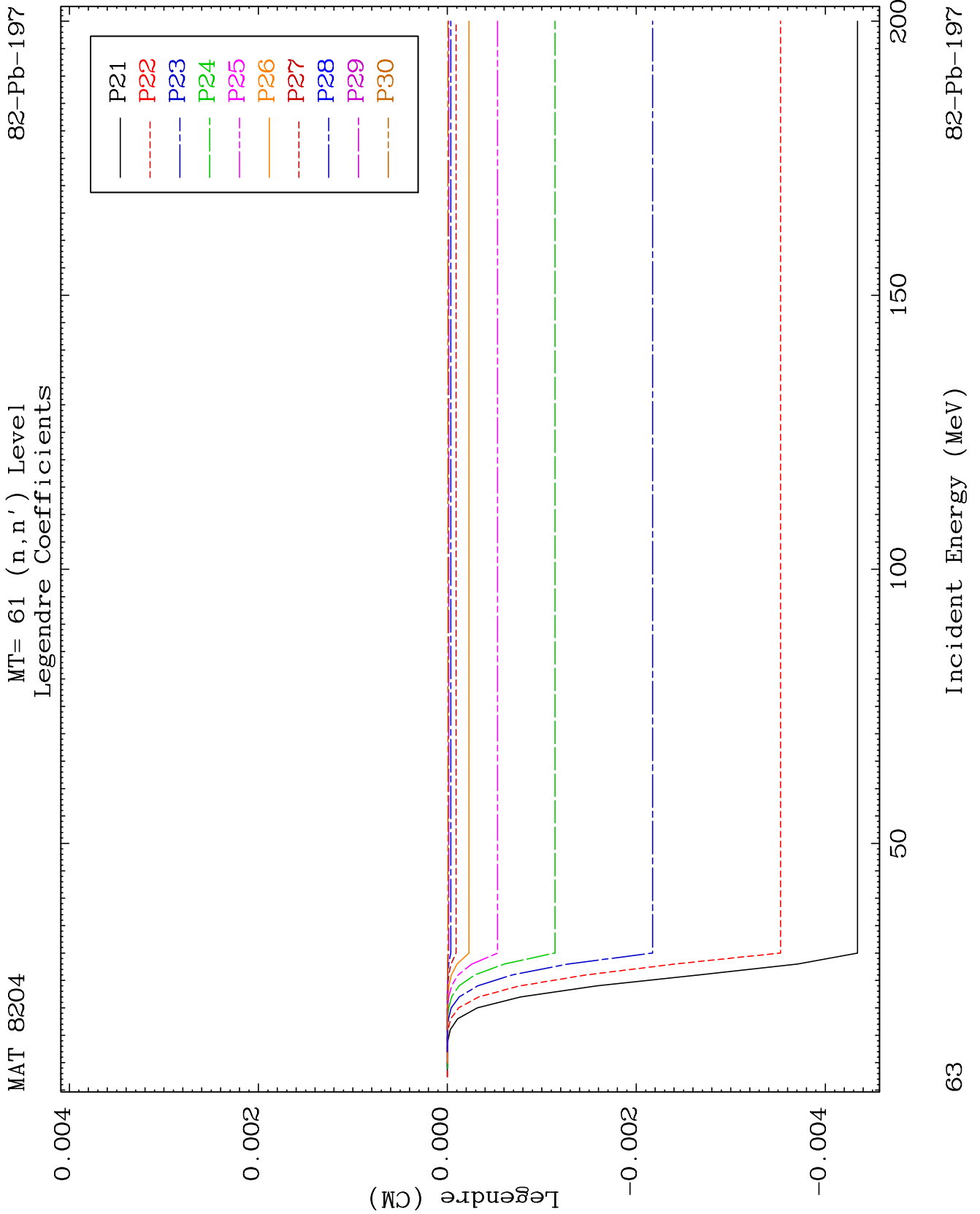
82-Pb-197

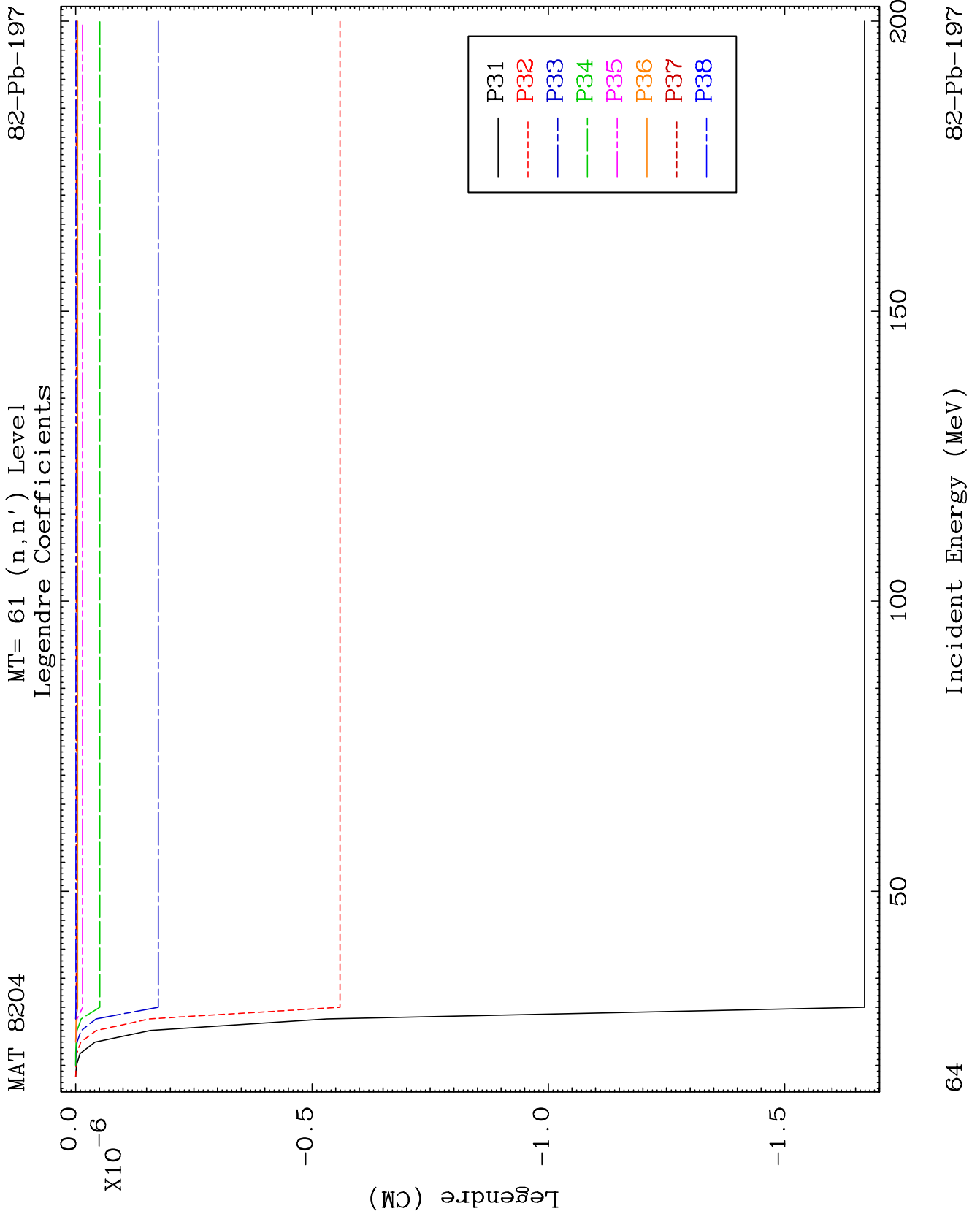


62

Incident Energy (MeV)

82-Pb-197

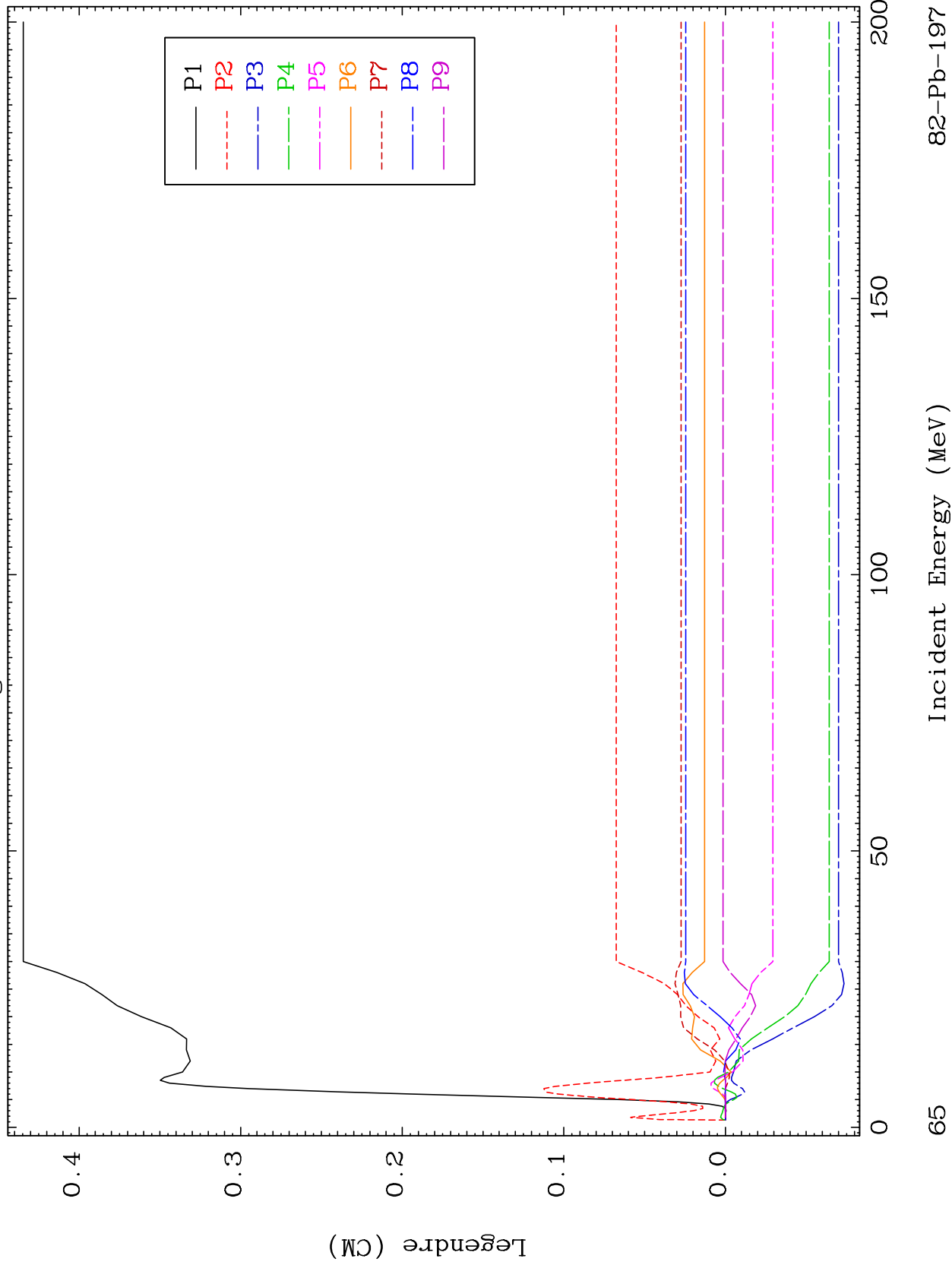




MAT 8204

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

82-Pb-197



82-Pb-197

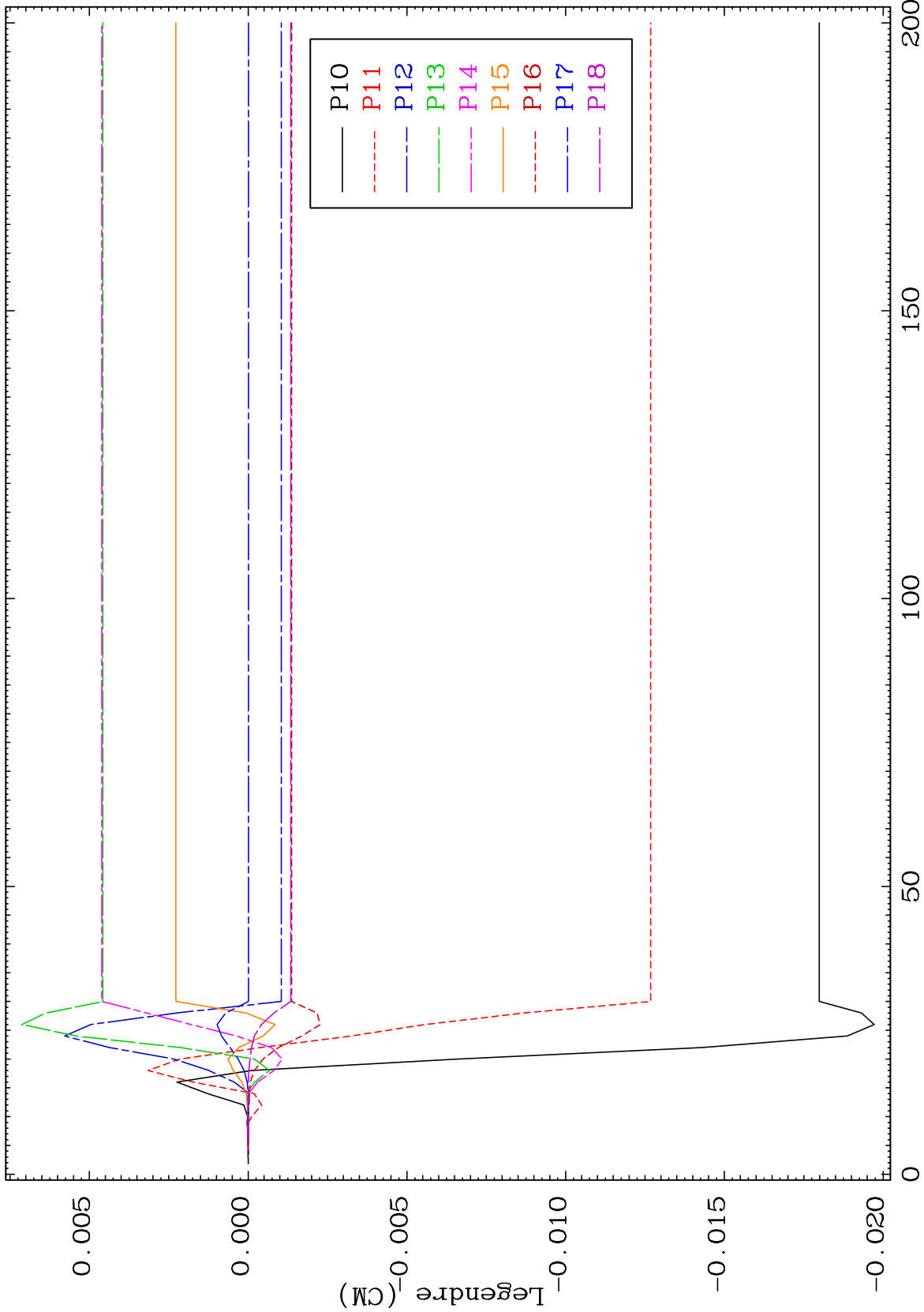
Incident Energy (MeV)

65

MAT 8204

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

82-Pb-197



66

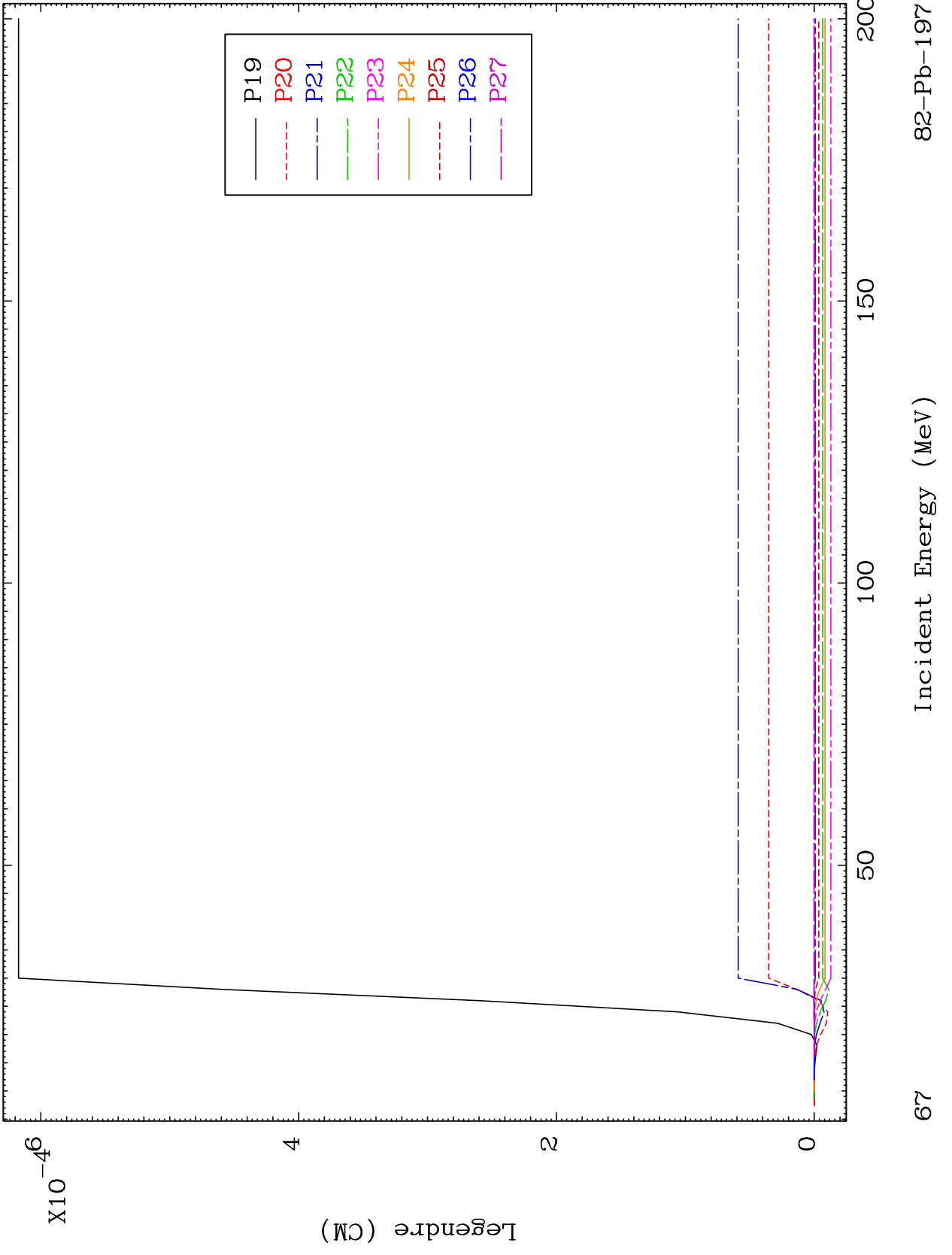
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

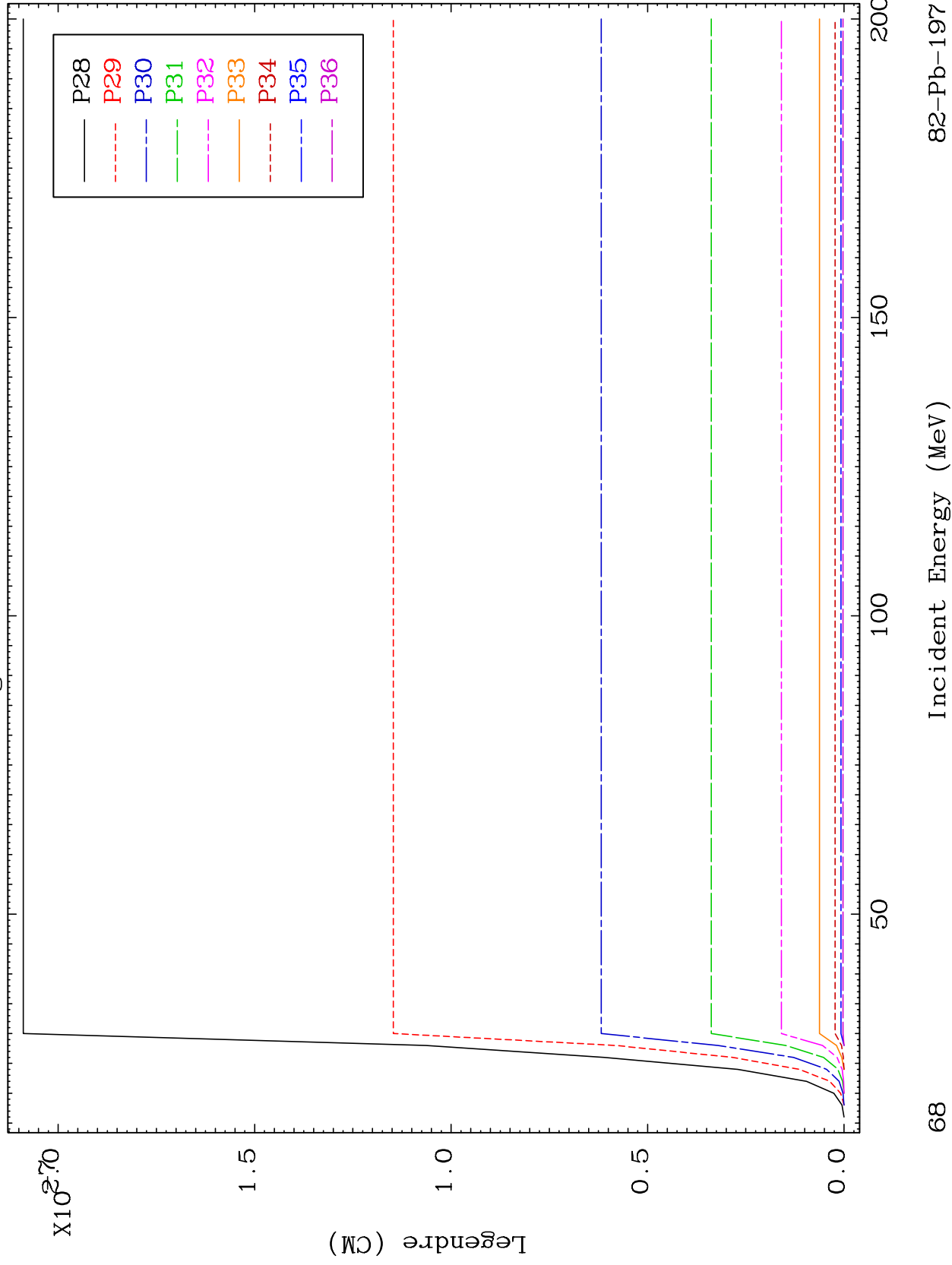
82-Pb-197



MAT 8204

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

82-Pb-197



68

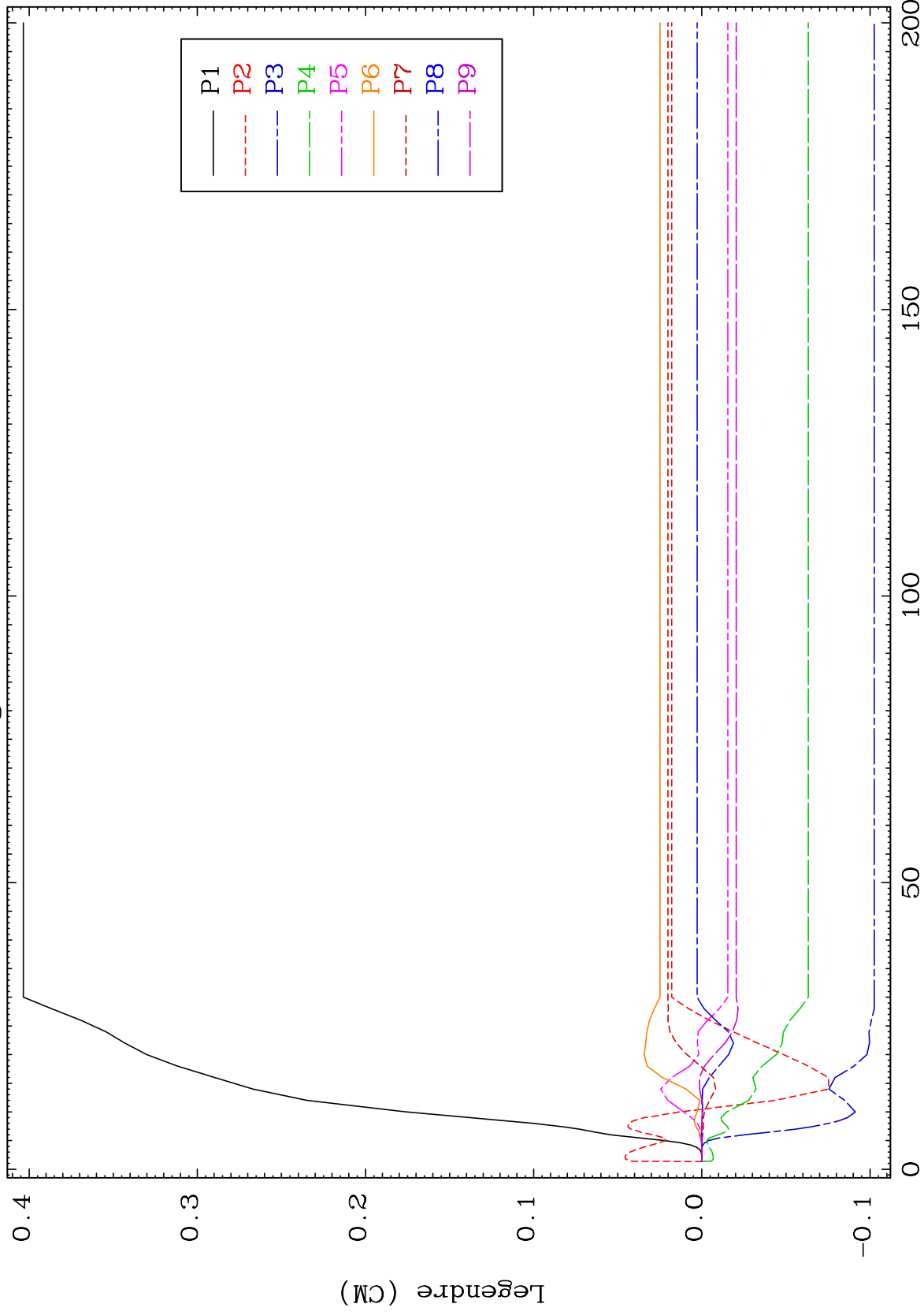
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

82-Pb-197



69

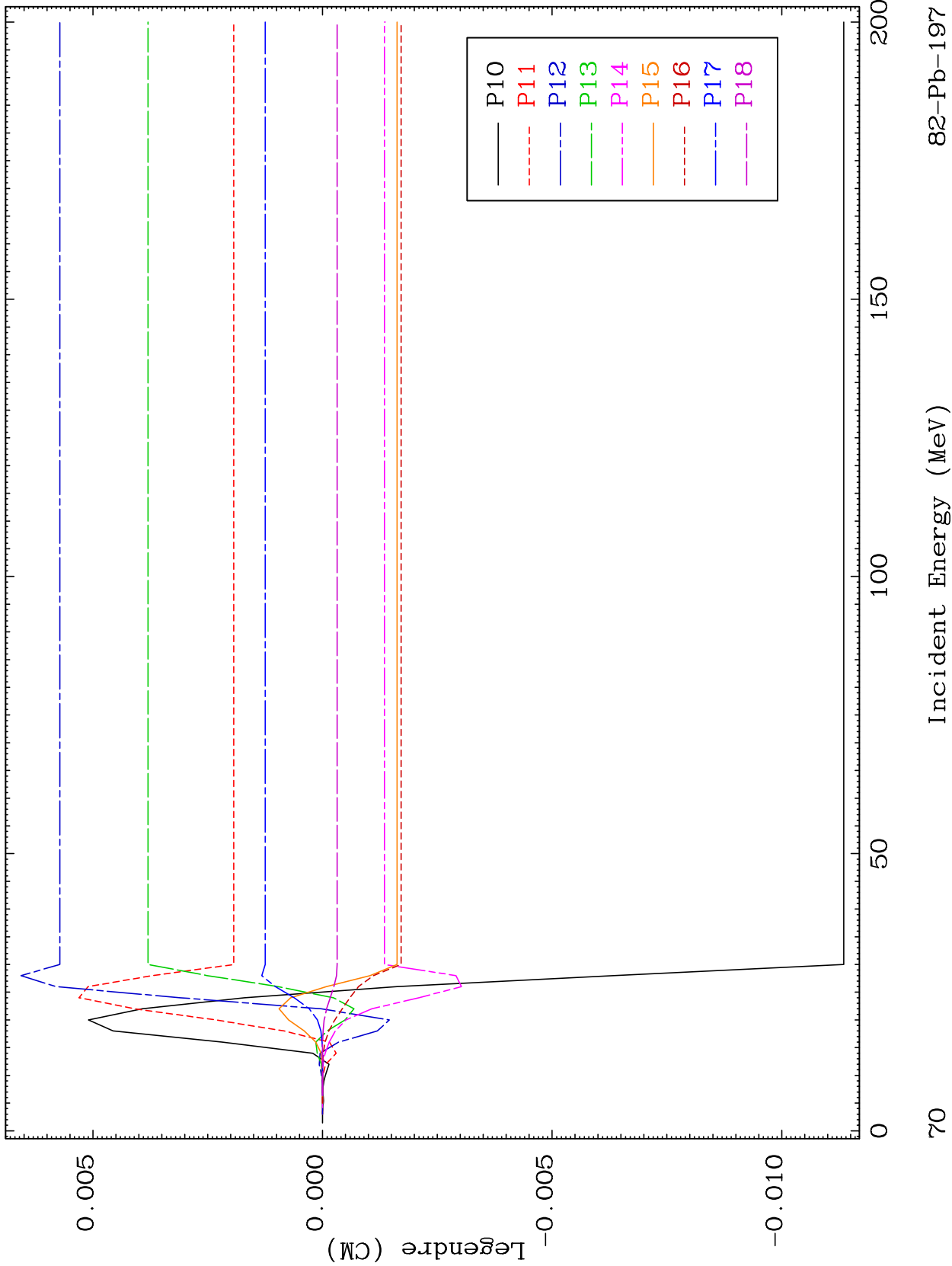
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

82-Pb-197



82-Pb-197

Incident Energy (MeV)

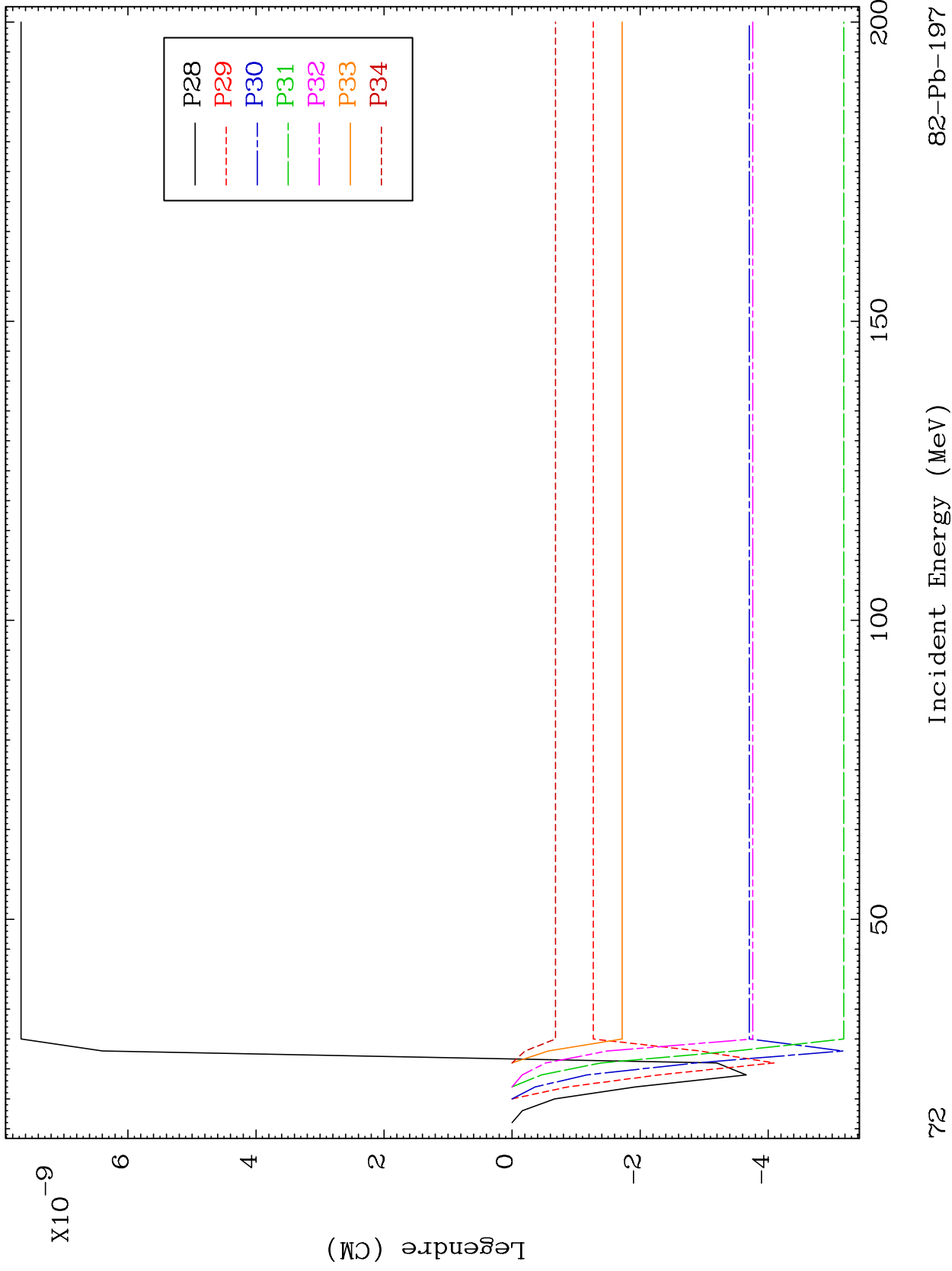
70



MAT 8204

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

82-Pb-197



72

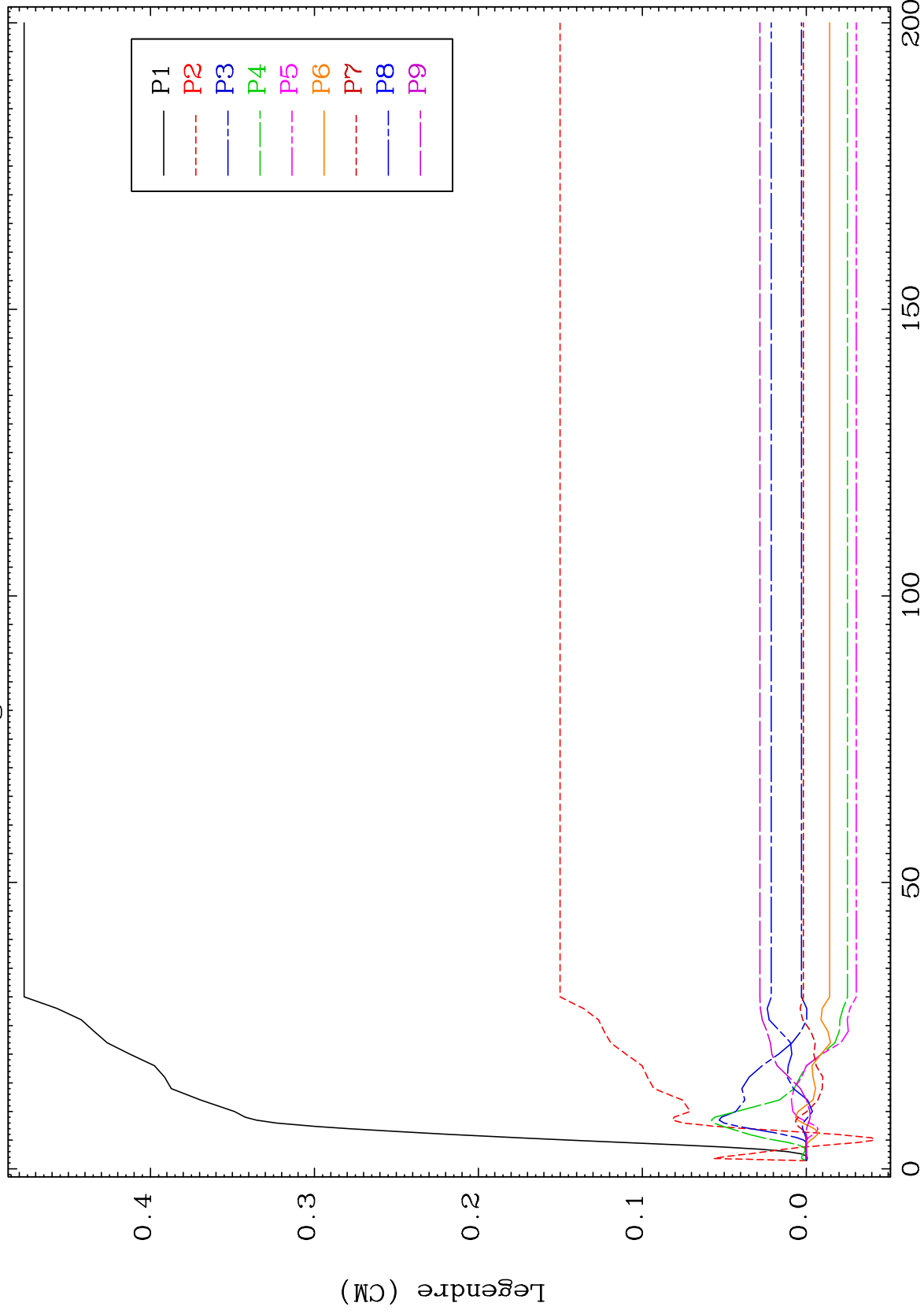
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

82-Pb-197



73

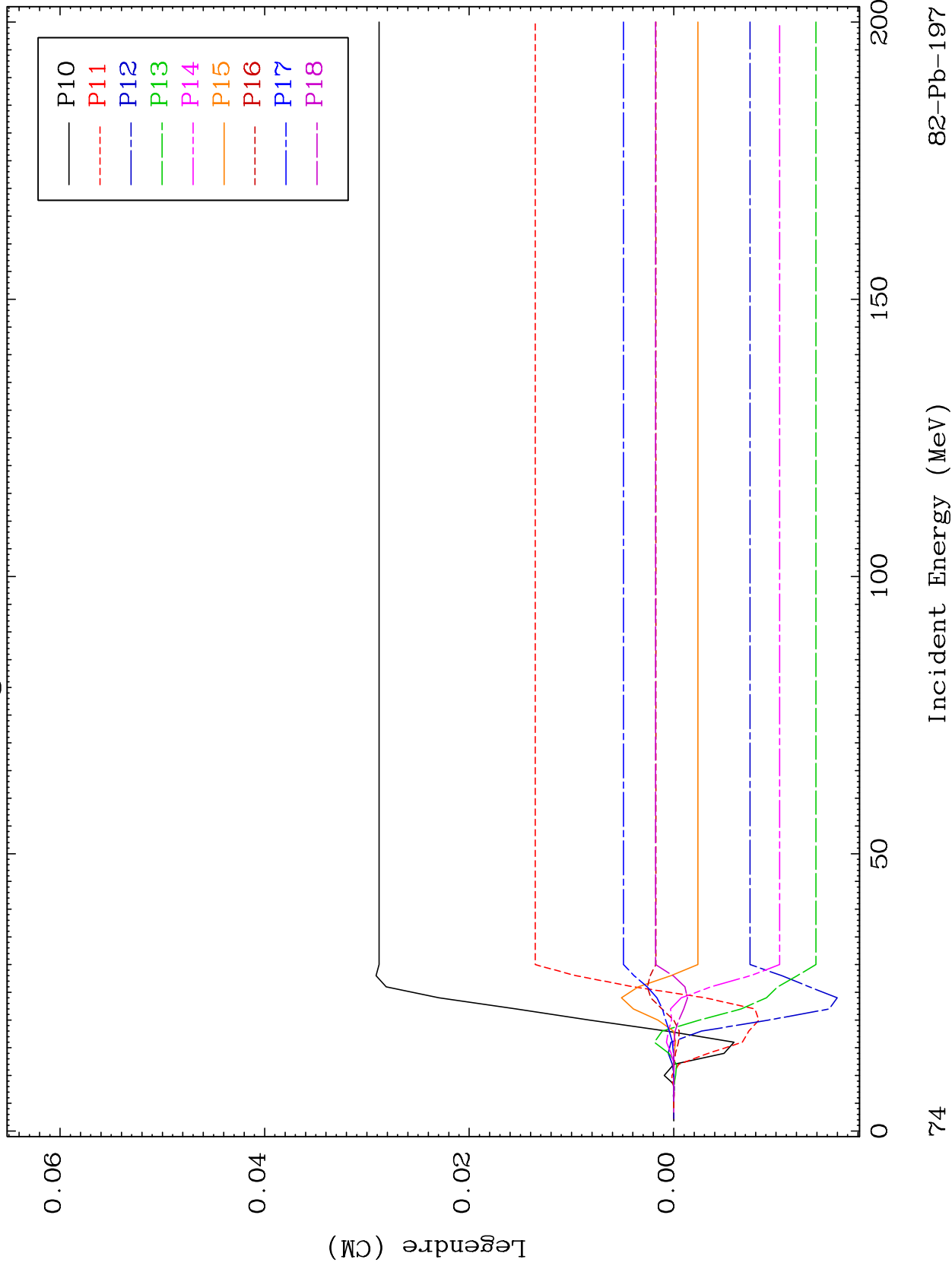
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

82-Pb-197



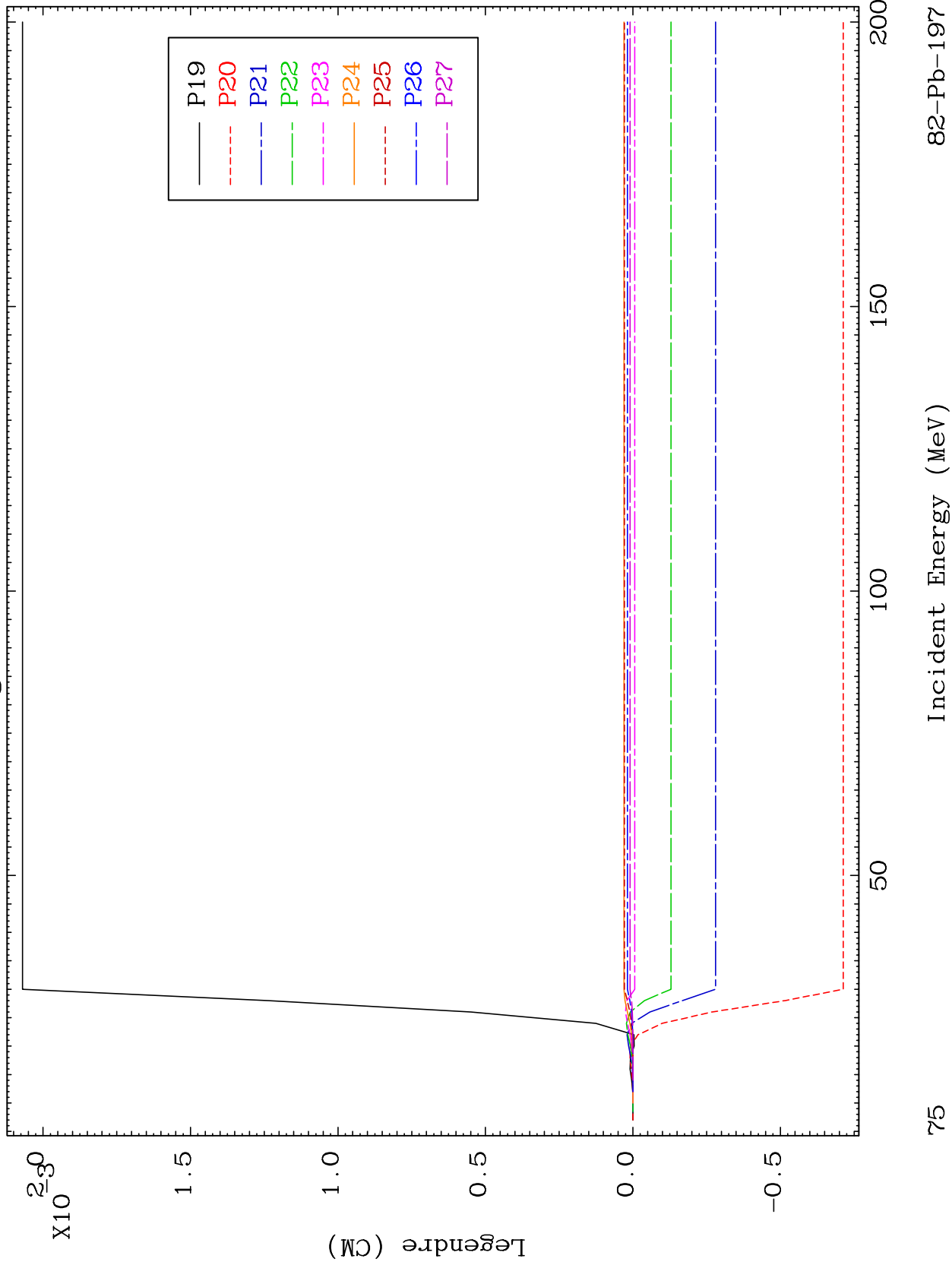
74

82-Pb-197

MAT 8204

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

82-Pb-197



75

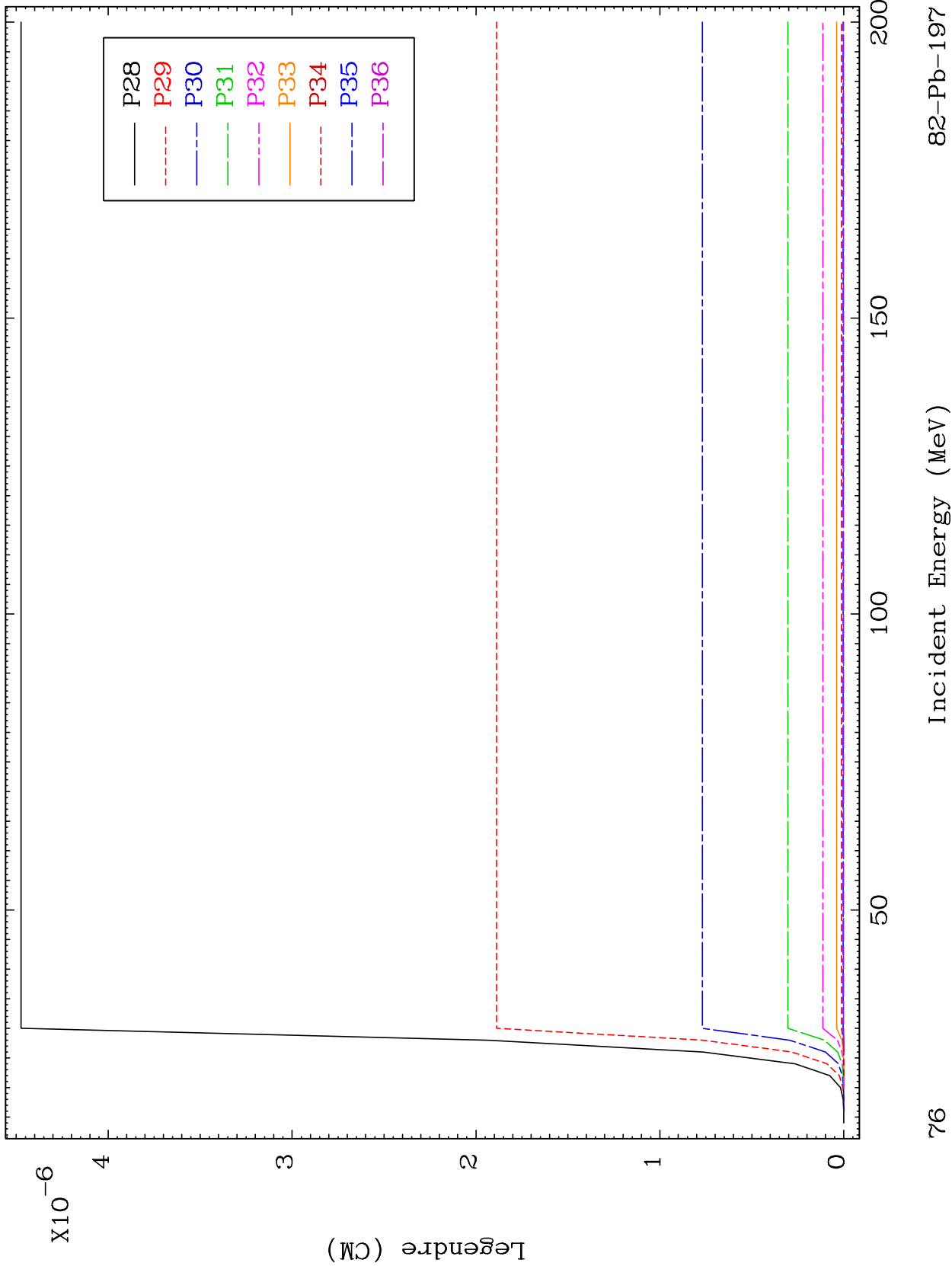
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

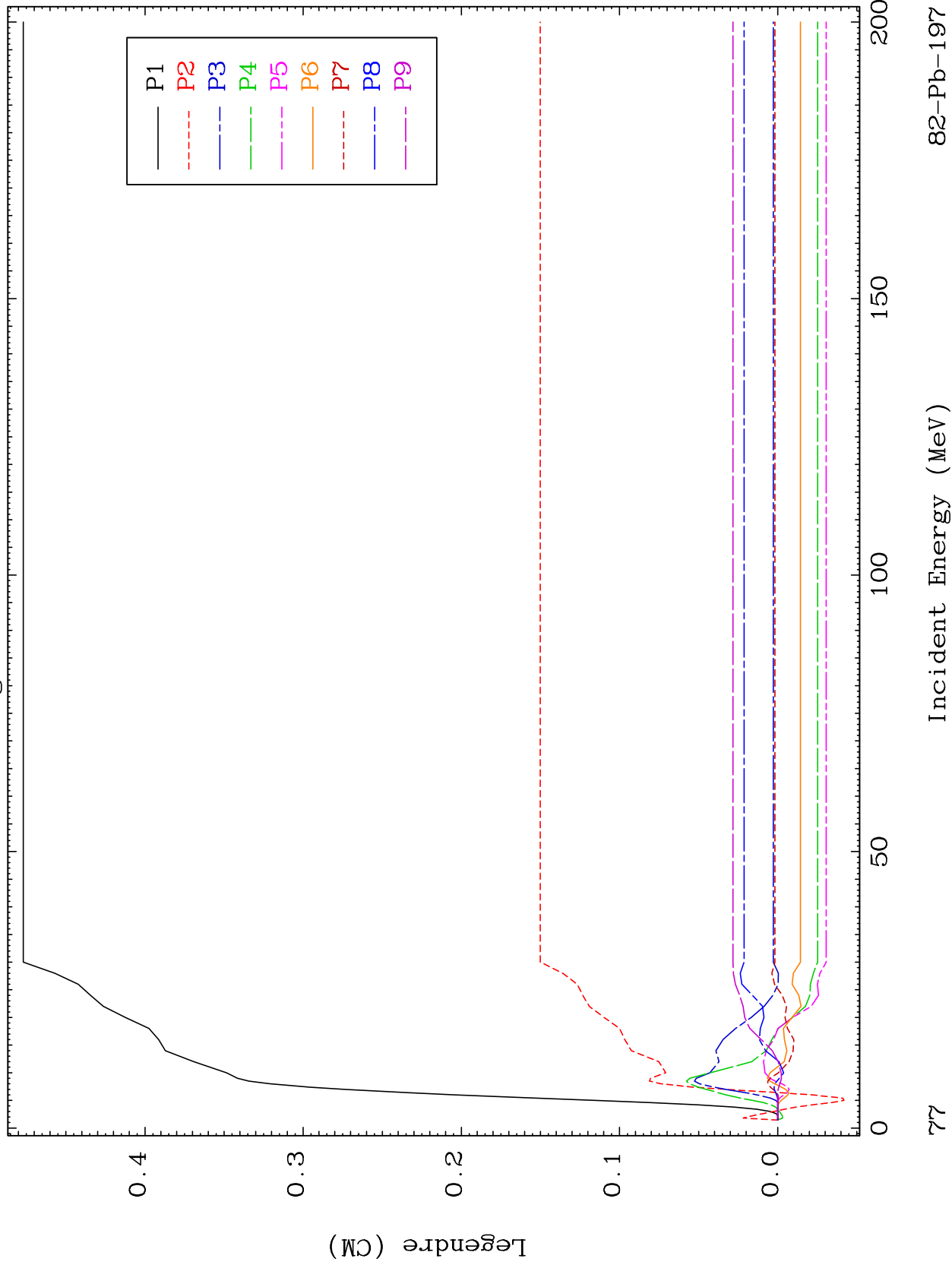
82-Pb-197



MAT 8204

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

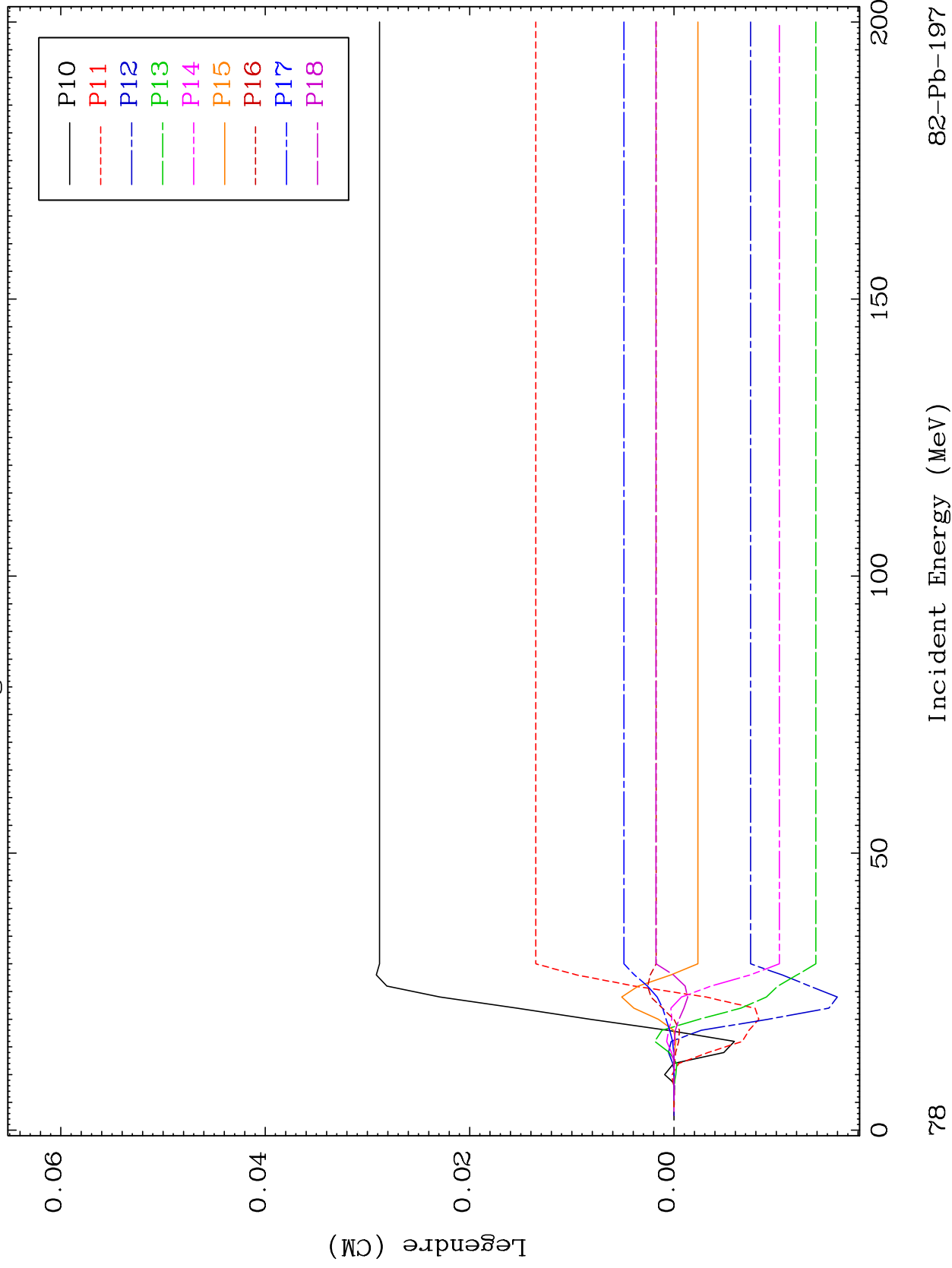
82-Pb-197



MAT 8204

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

82-Pb-197



78

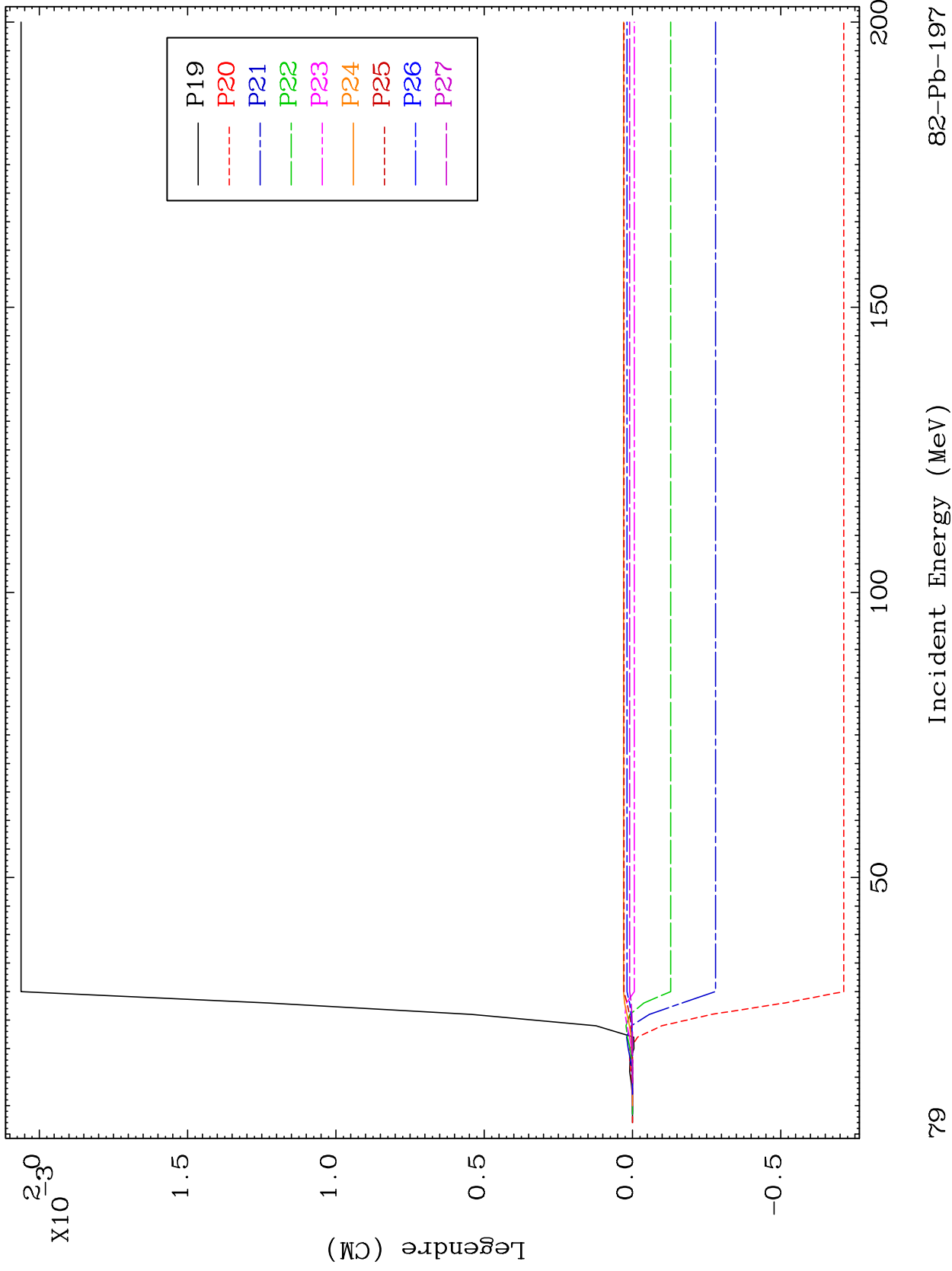
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

82-Pb-197



79

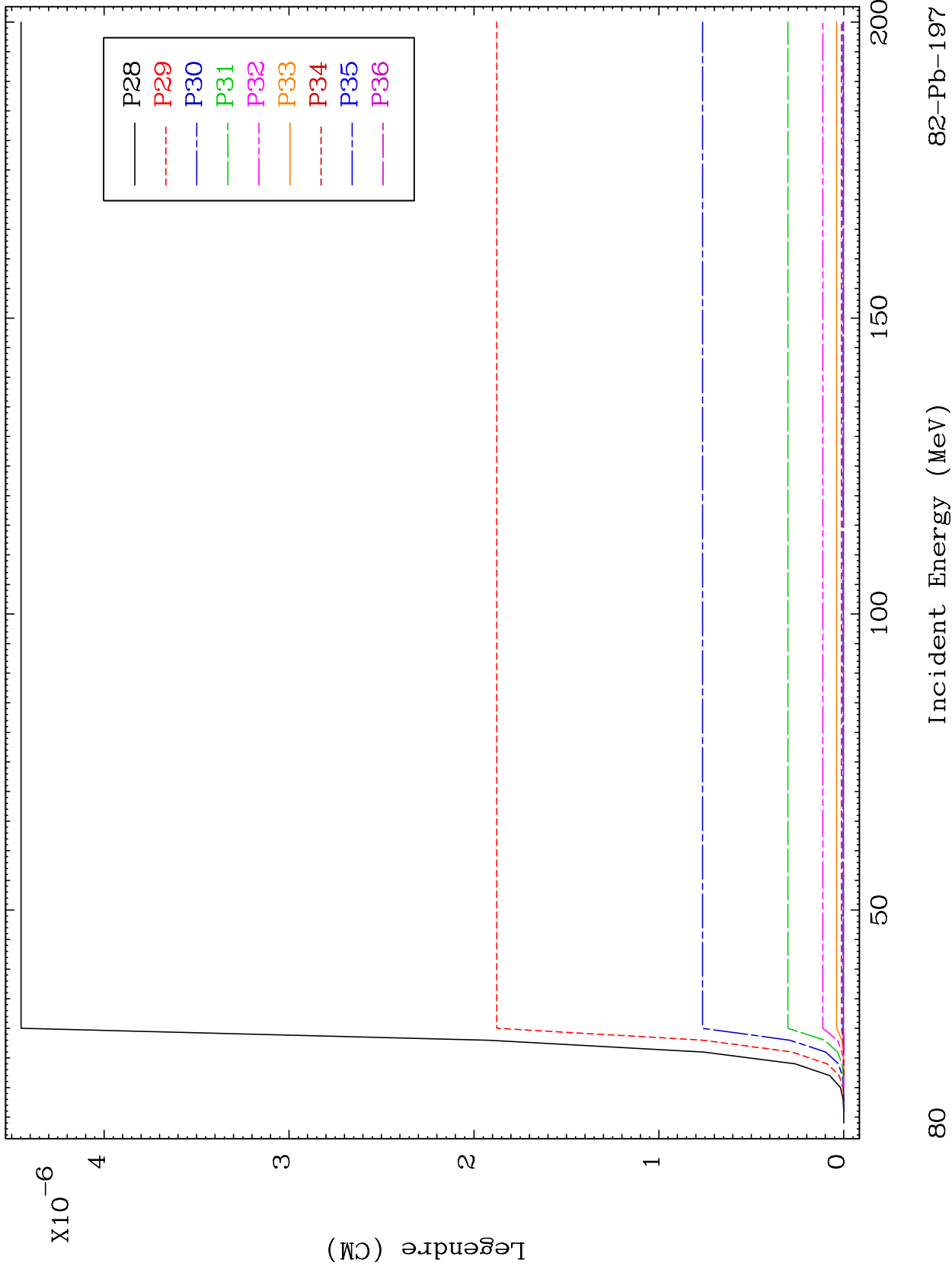
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

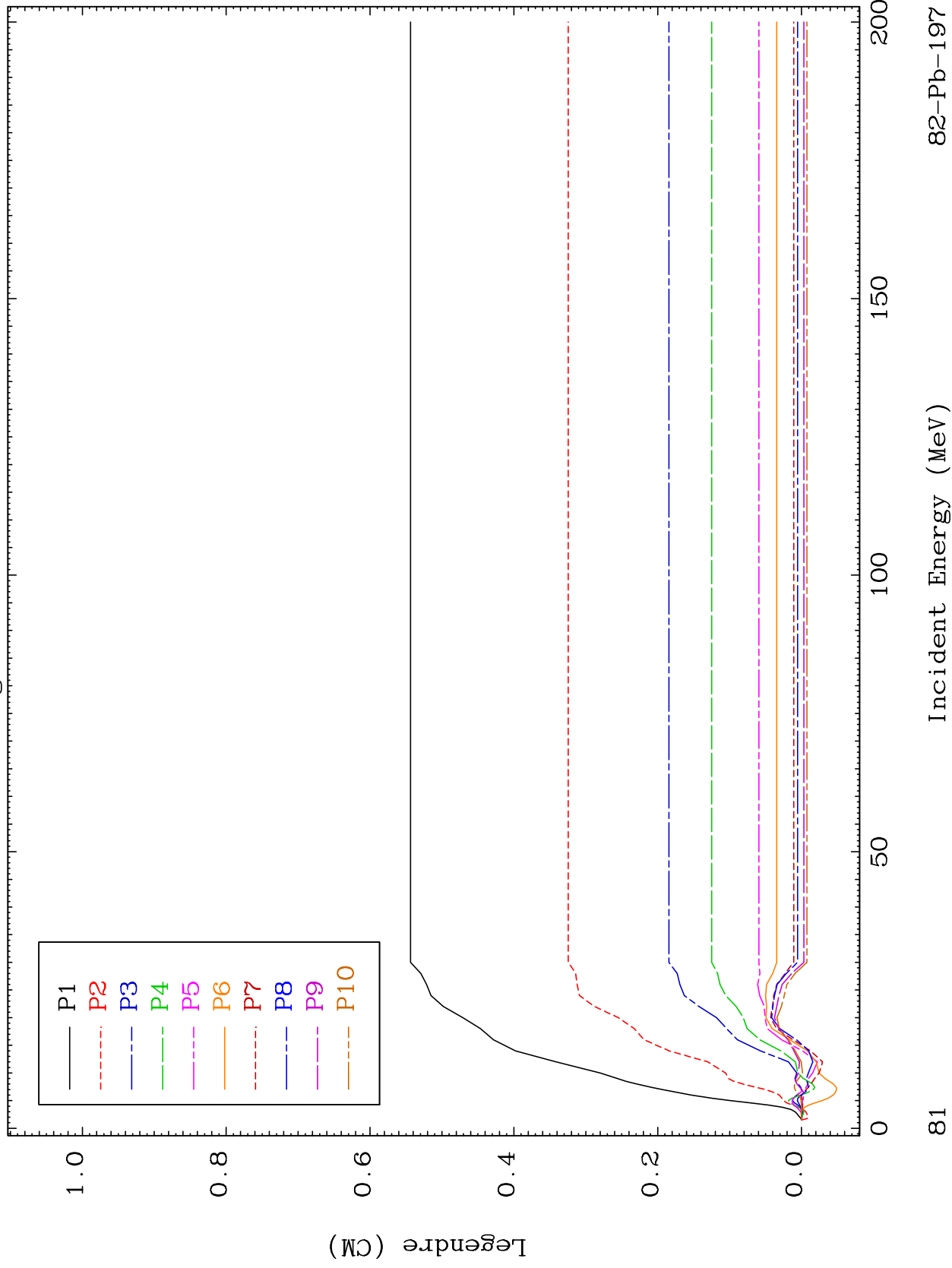
82-Pb-197



MAT 8204

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

82-Pb-197



81

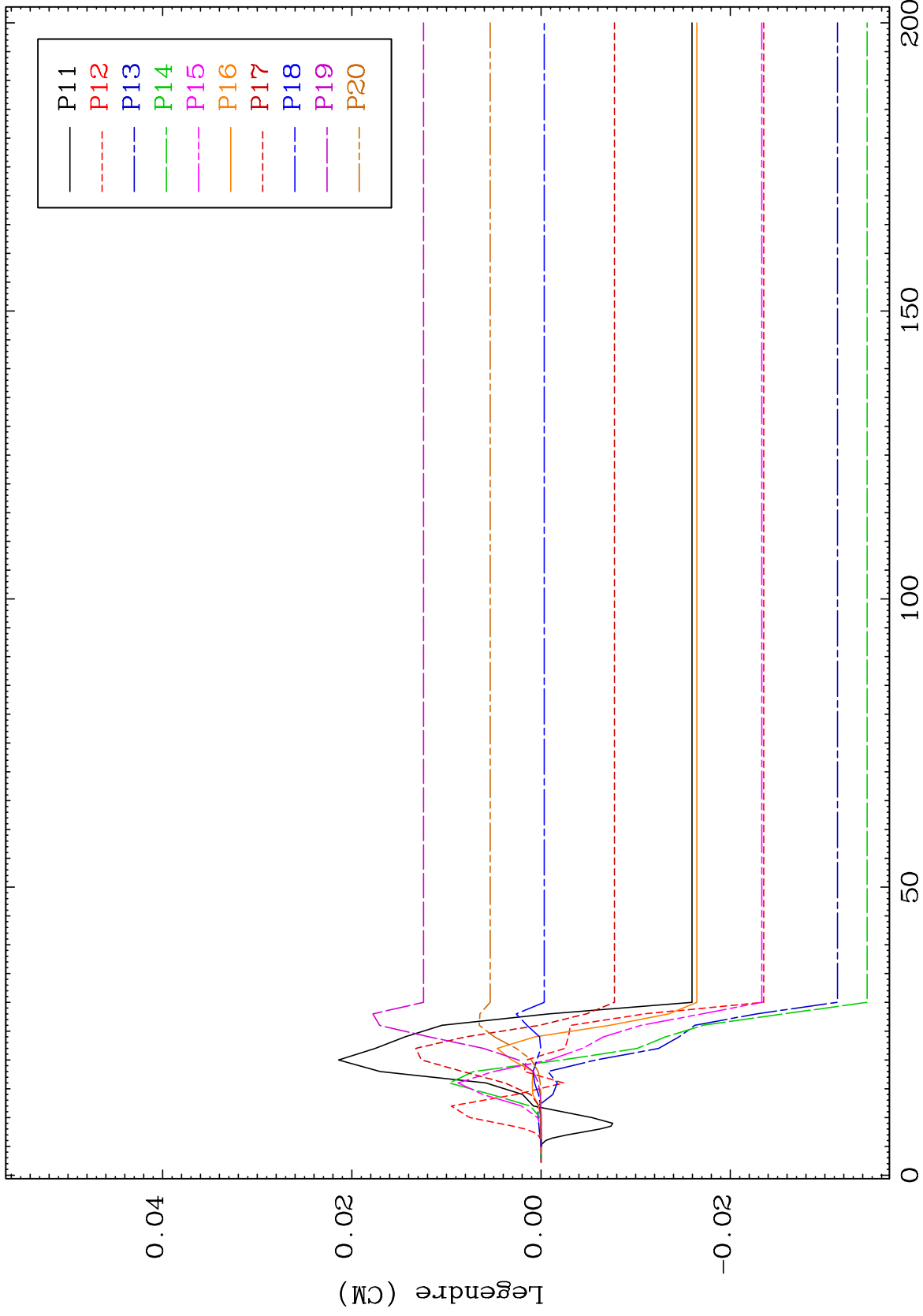
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

82-Pb-197



82

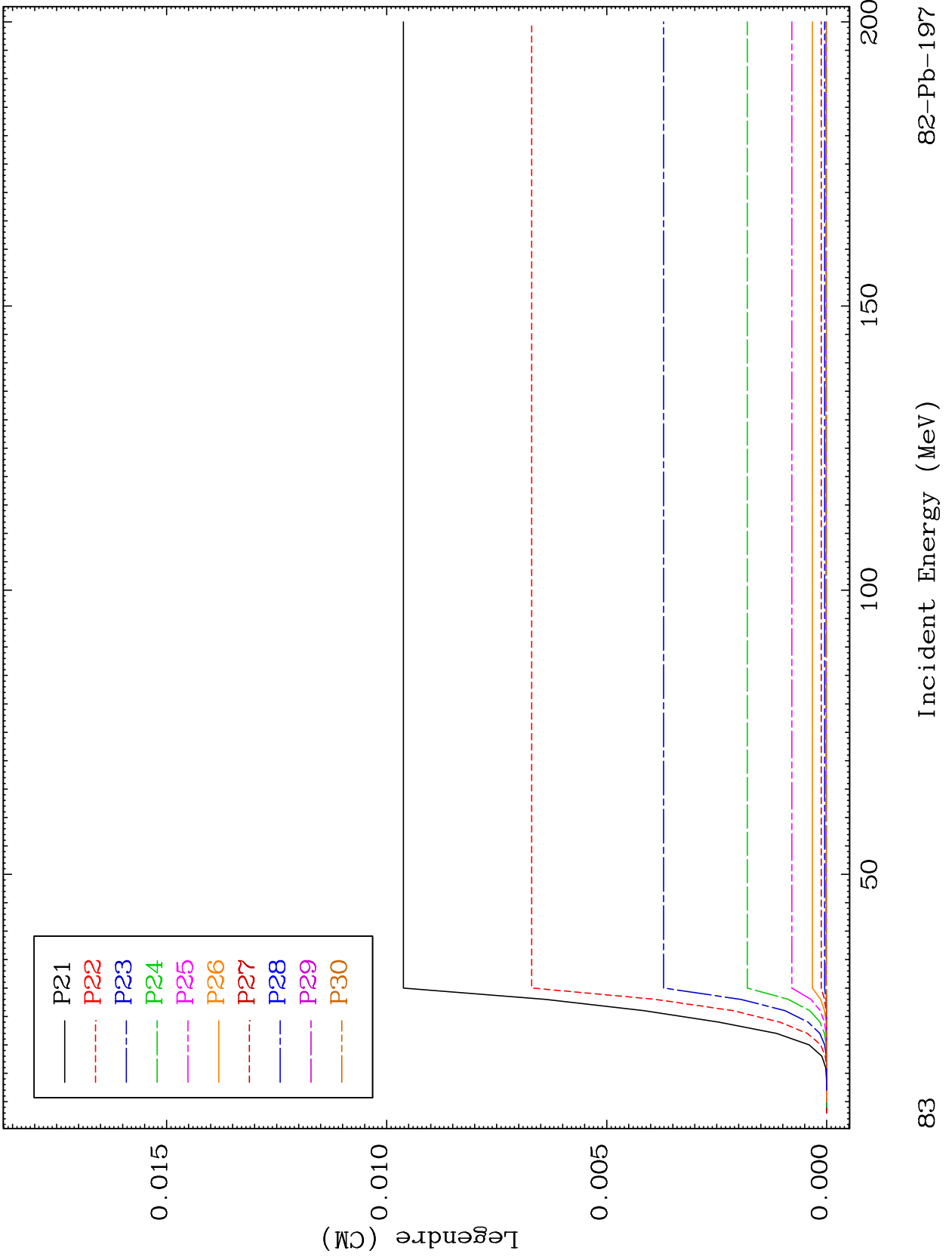
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

82-Pb-197



83

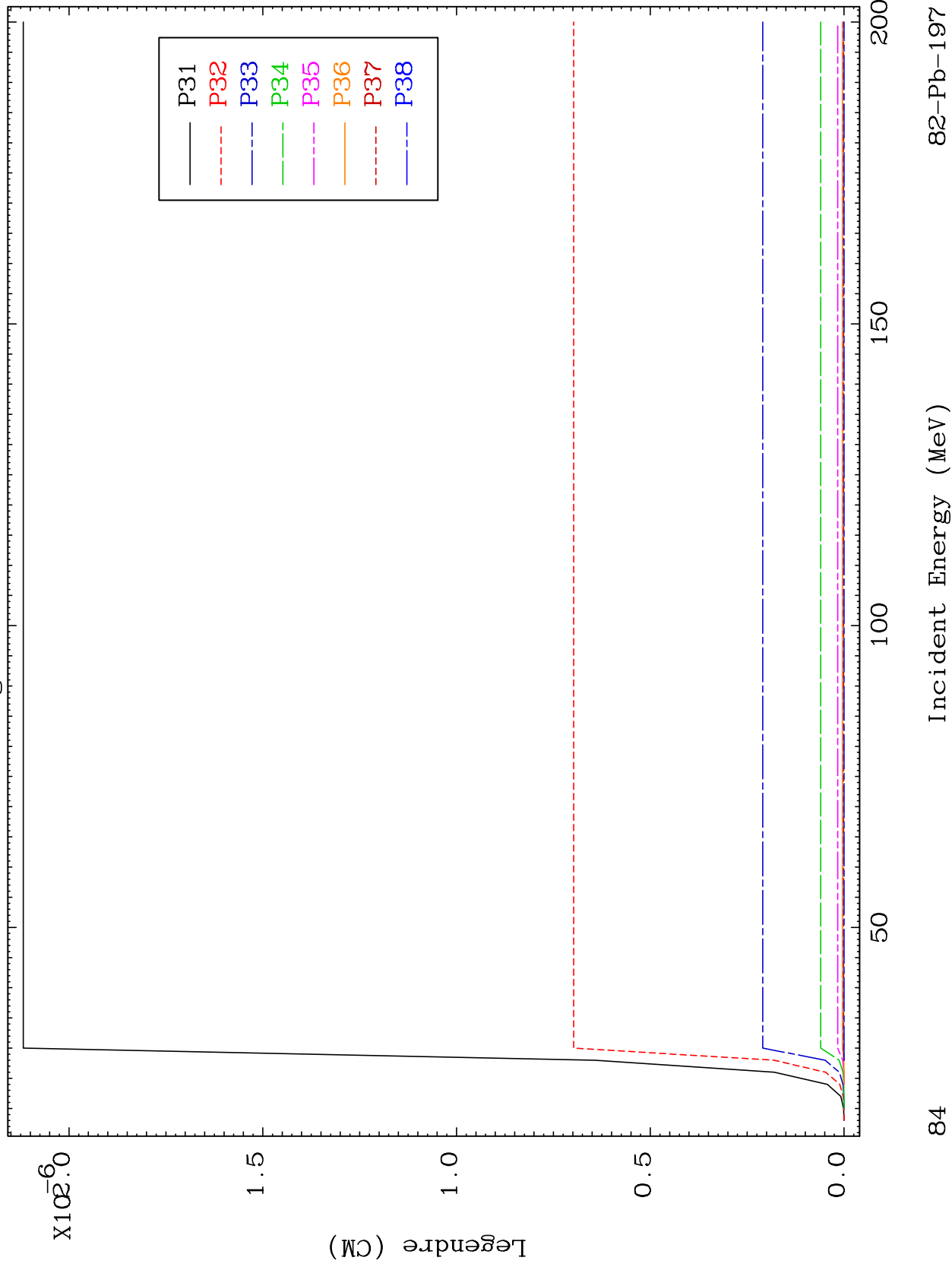
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

82-Pb-197



84

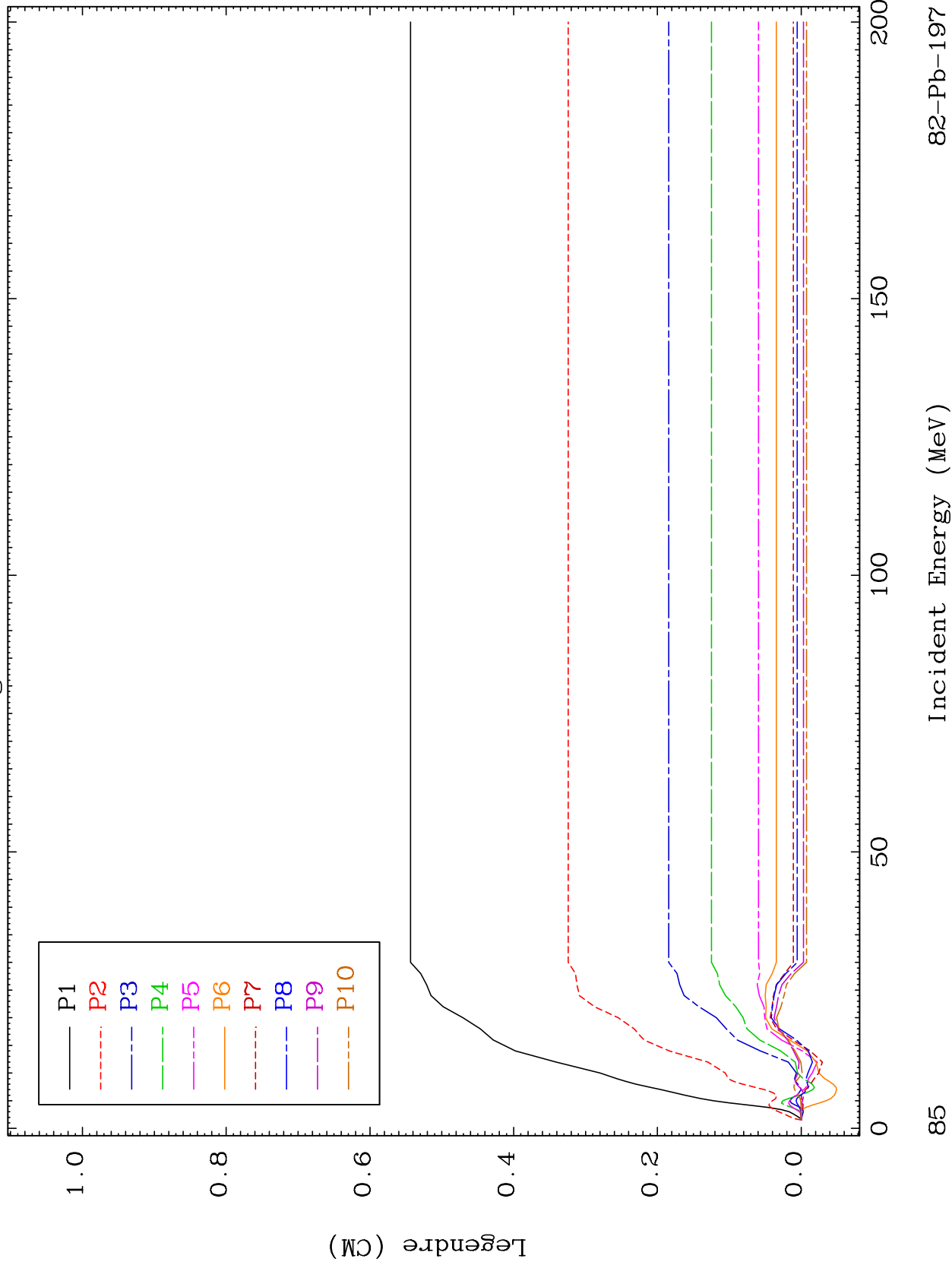
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

82-Pb-197

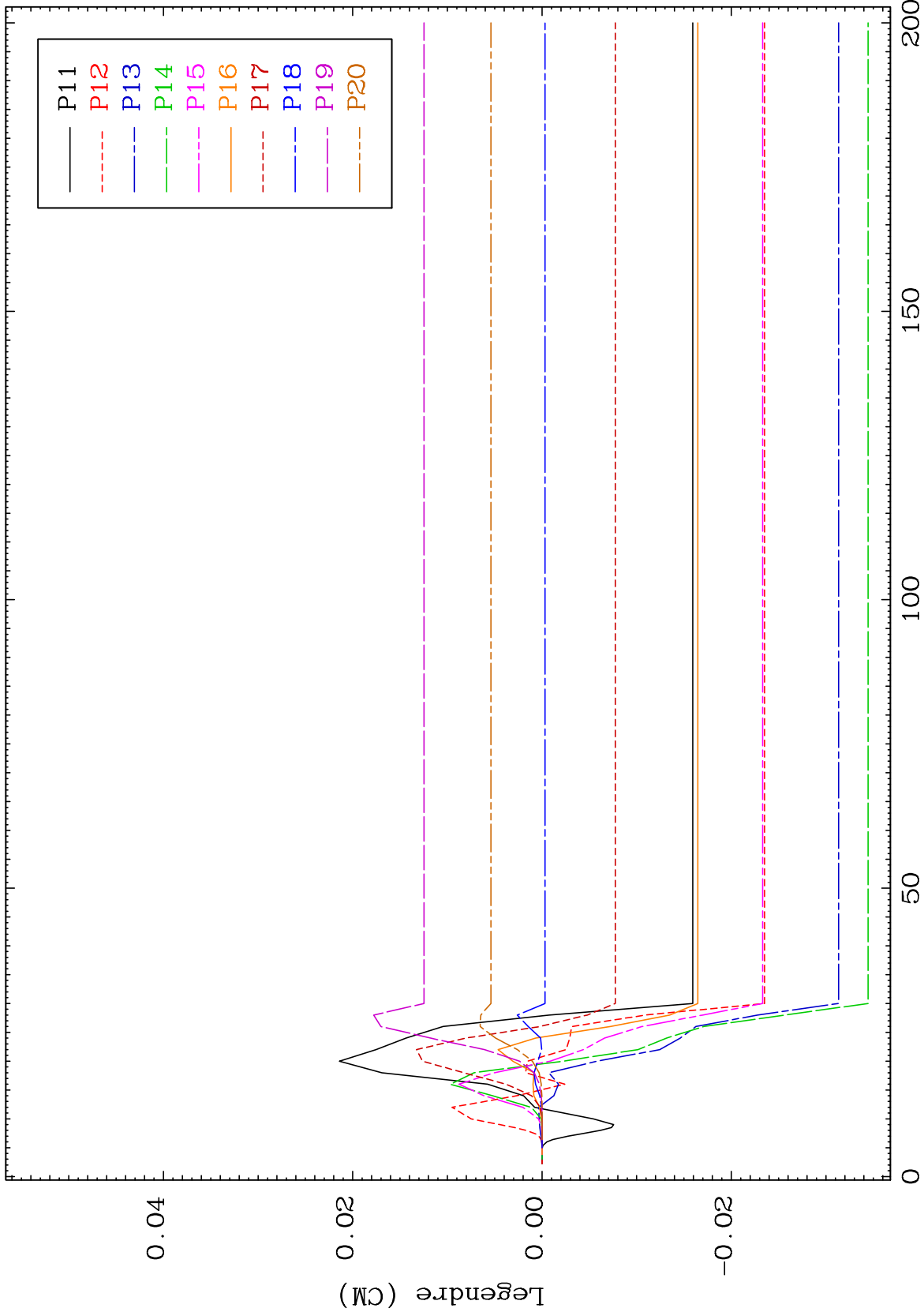


85

MAT 8204

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

82-Pb-197



86

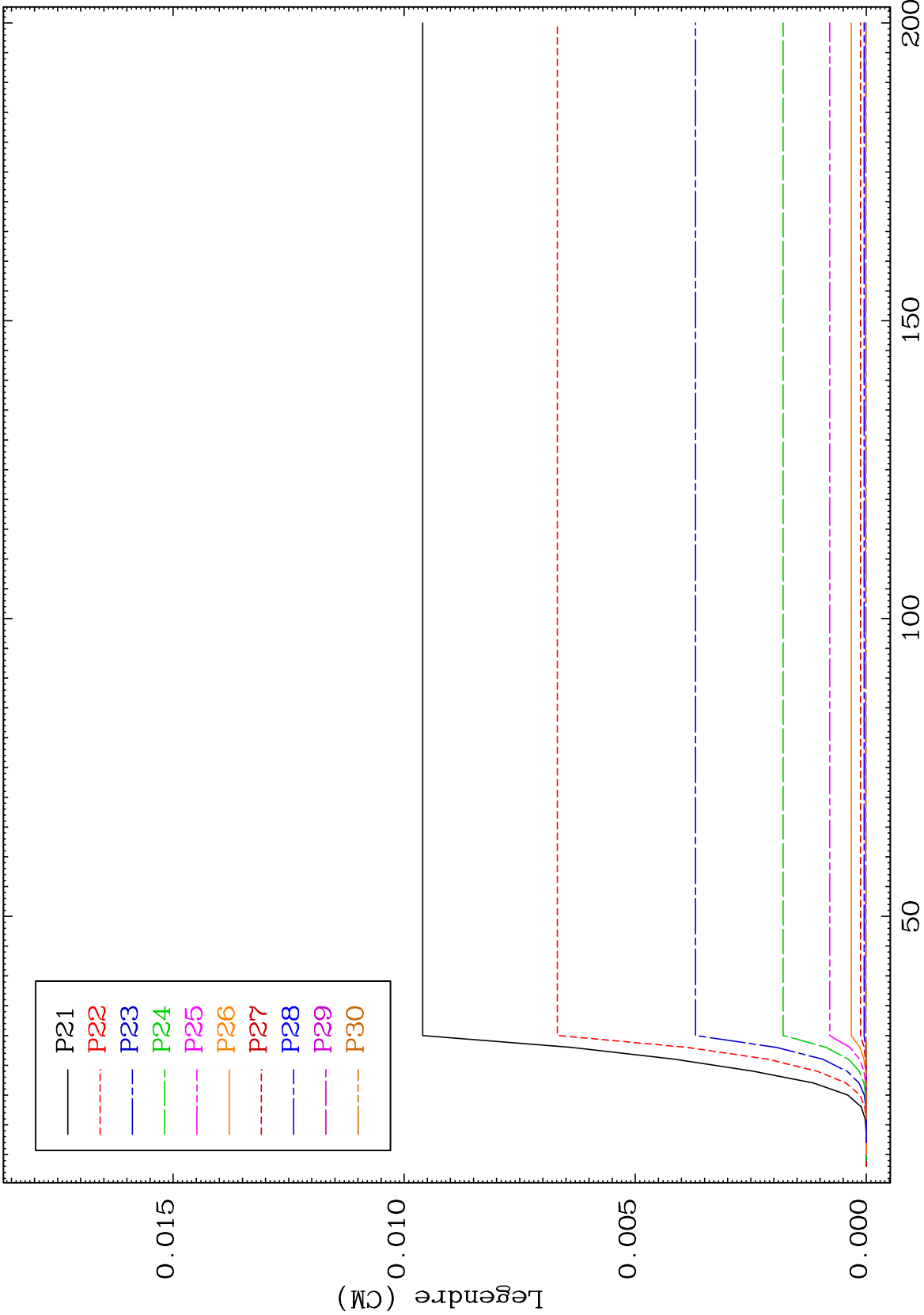
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

82-Pb-197



87

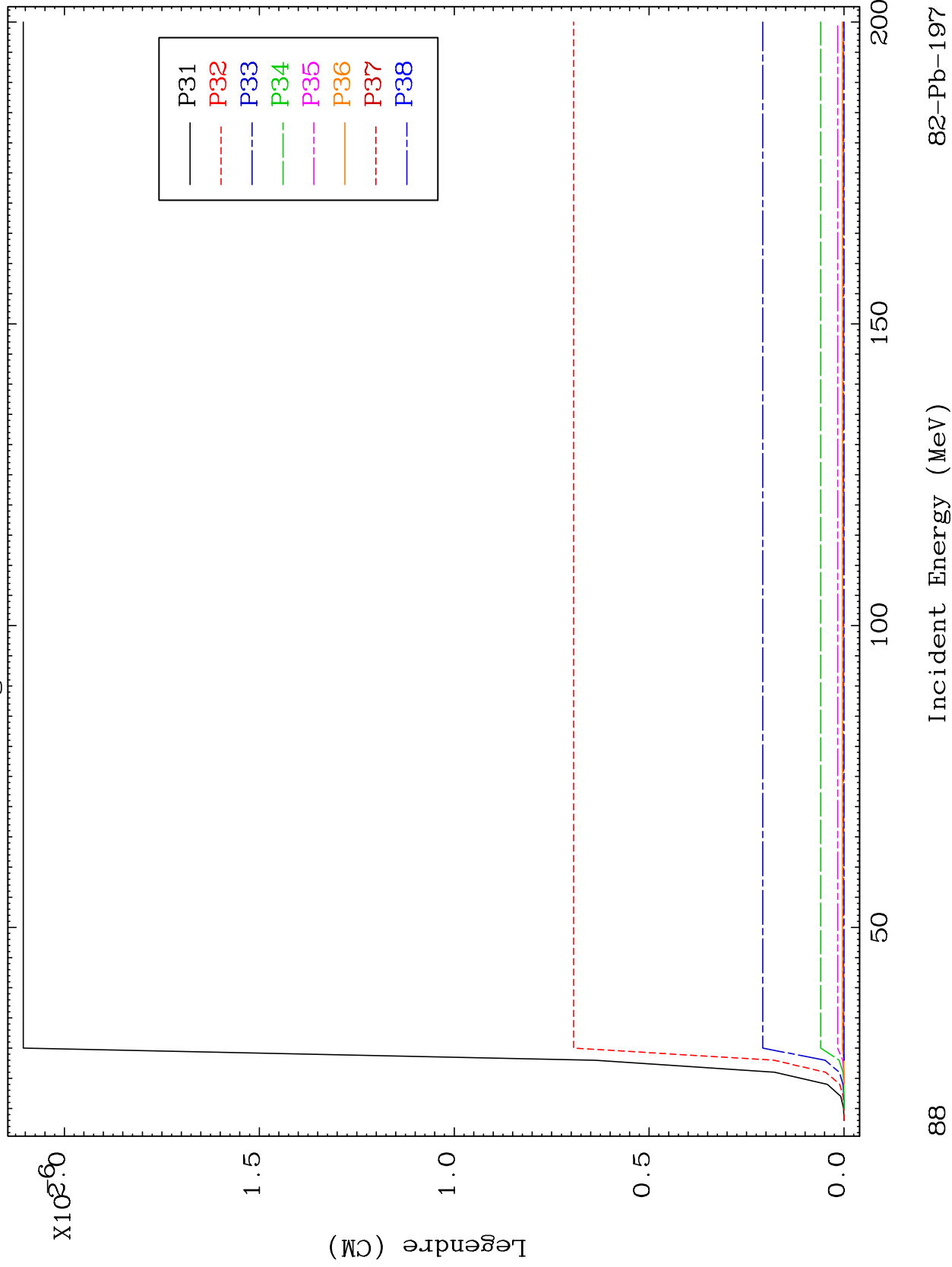
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

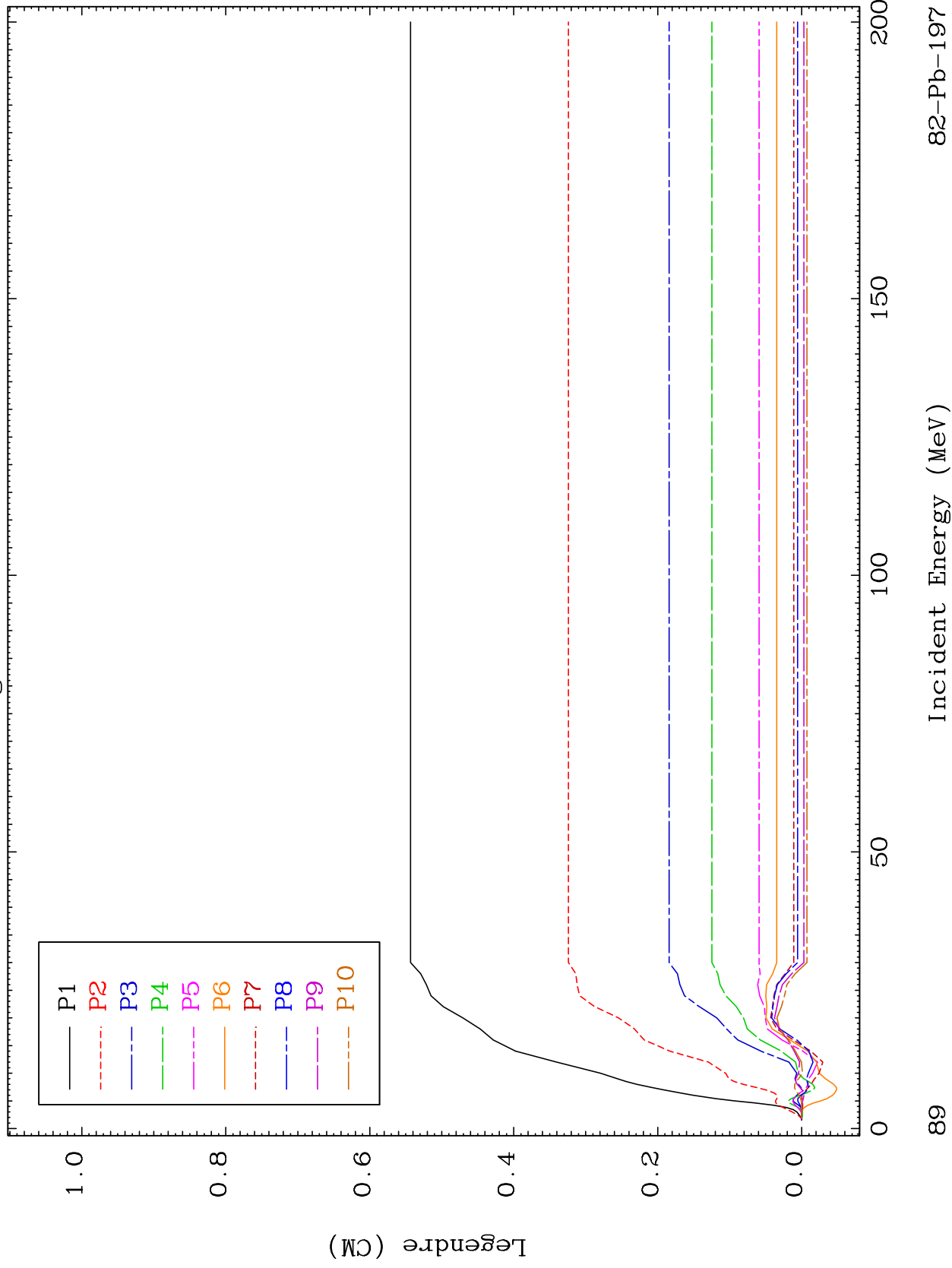
82-Pb-197



MAT 8204

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

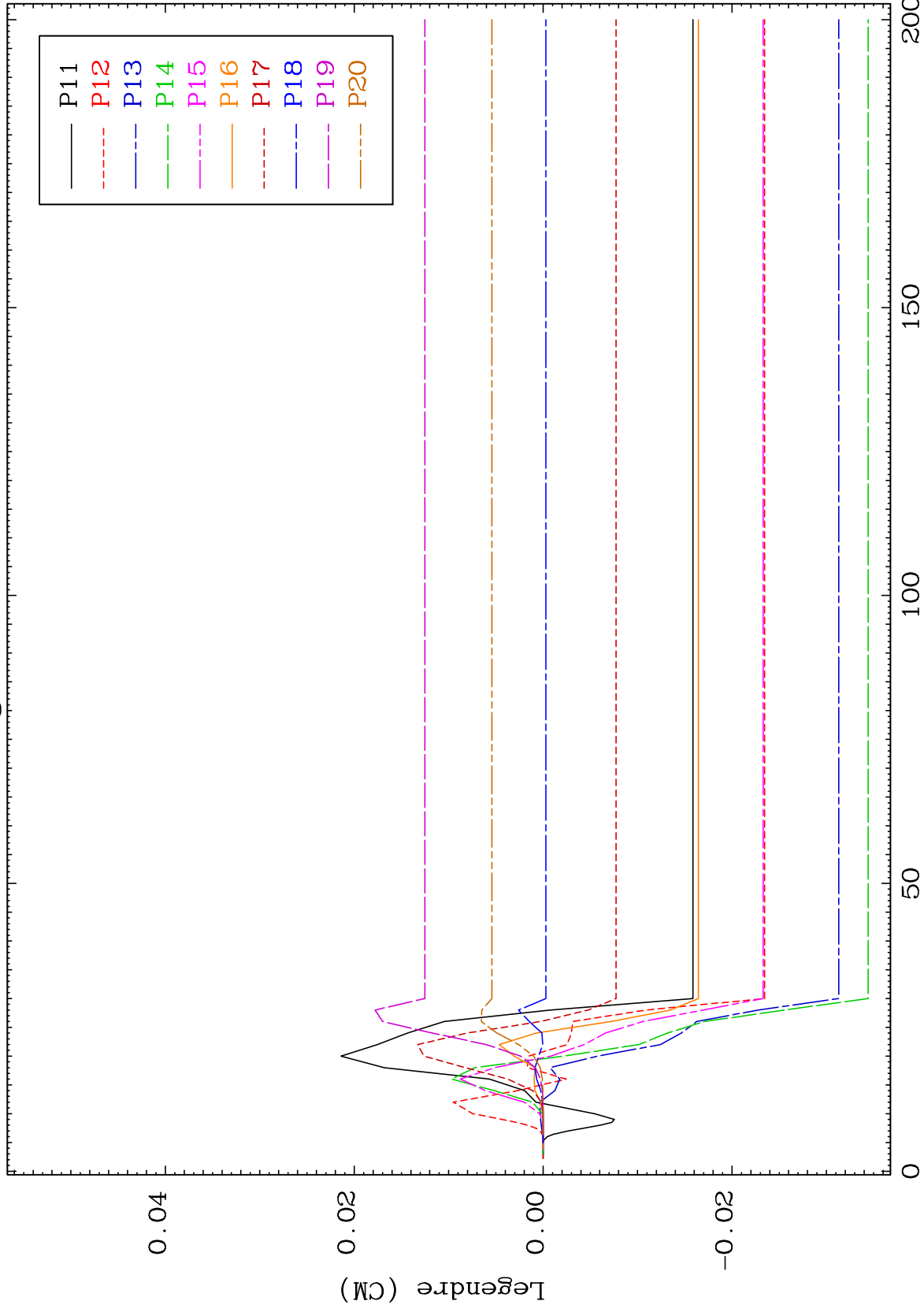
82-Pb-197



MAT 8204

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

82-Pb-197



82-Pb-197

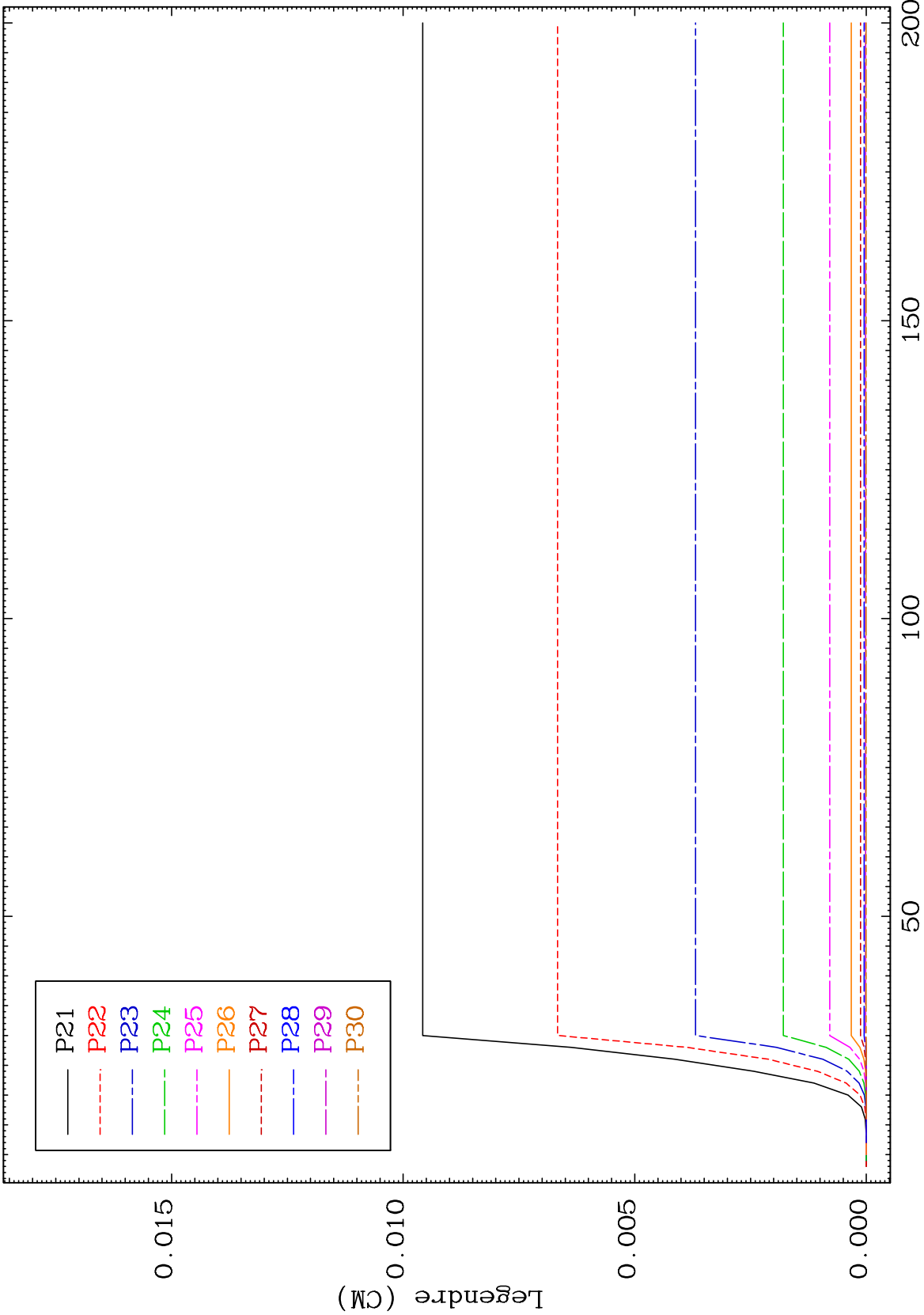
Incident Energy (MeV)

90

MAT 8204

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

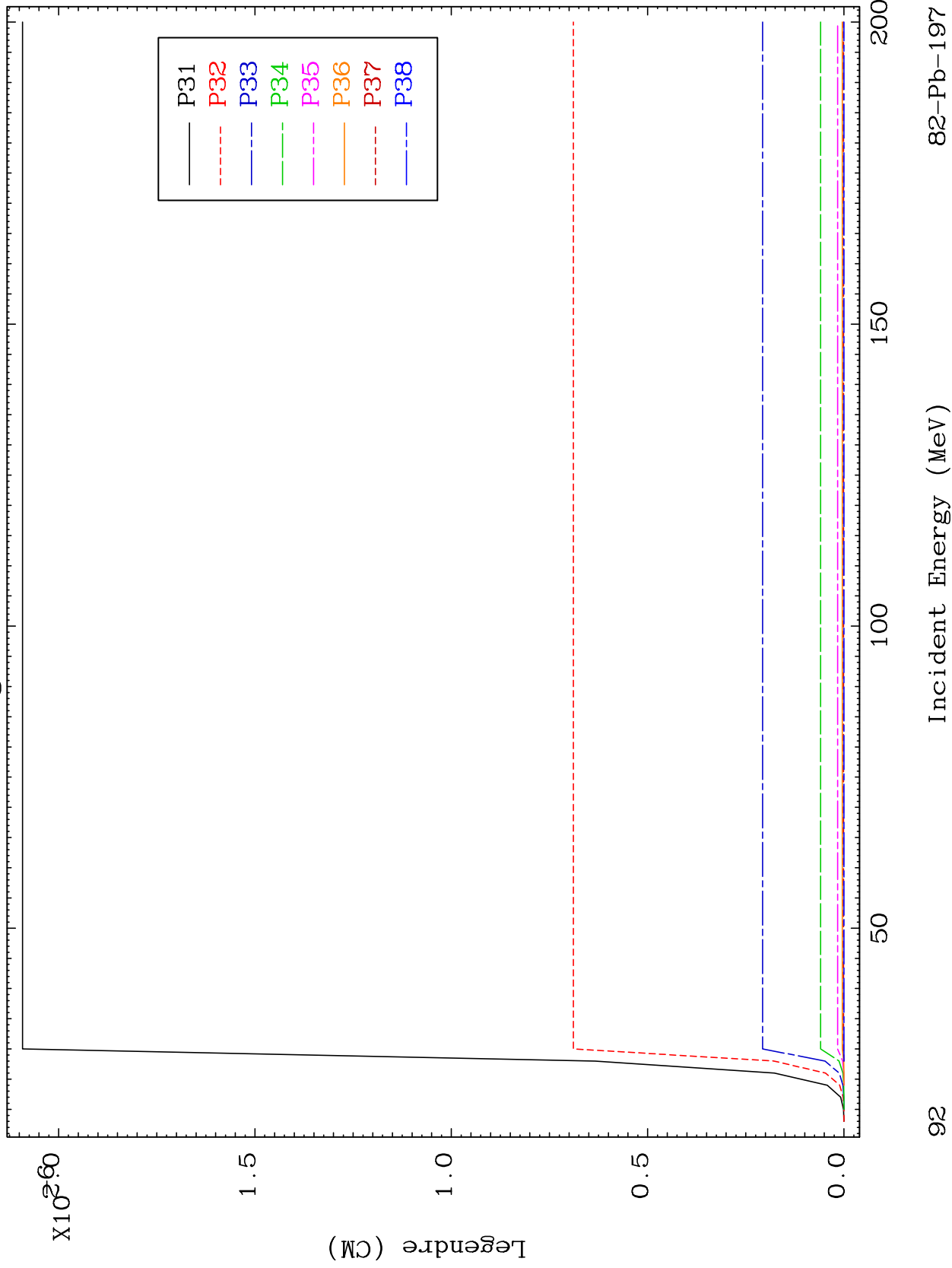
82-Pb-197

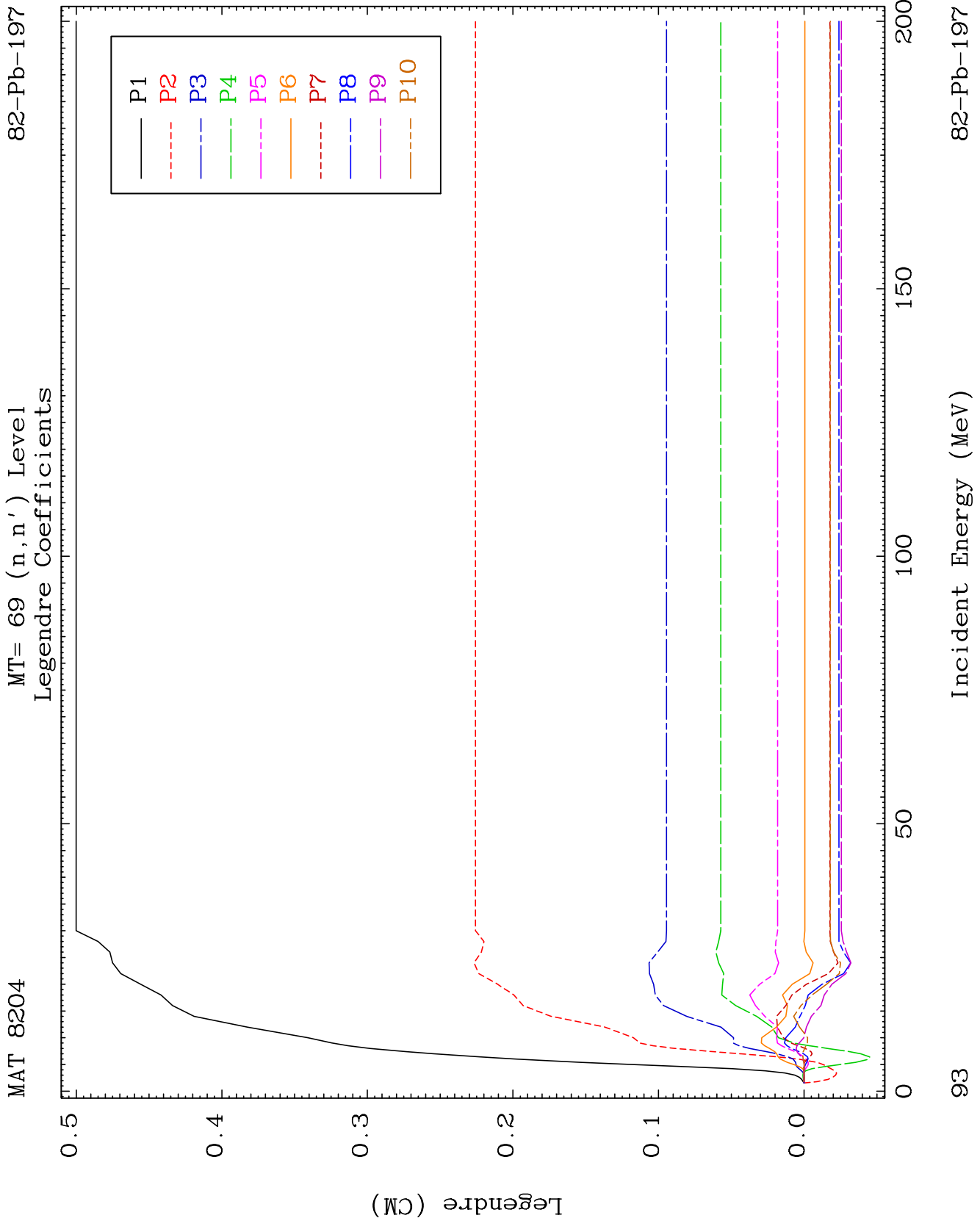


MAT 8204

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

82-Pb-197

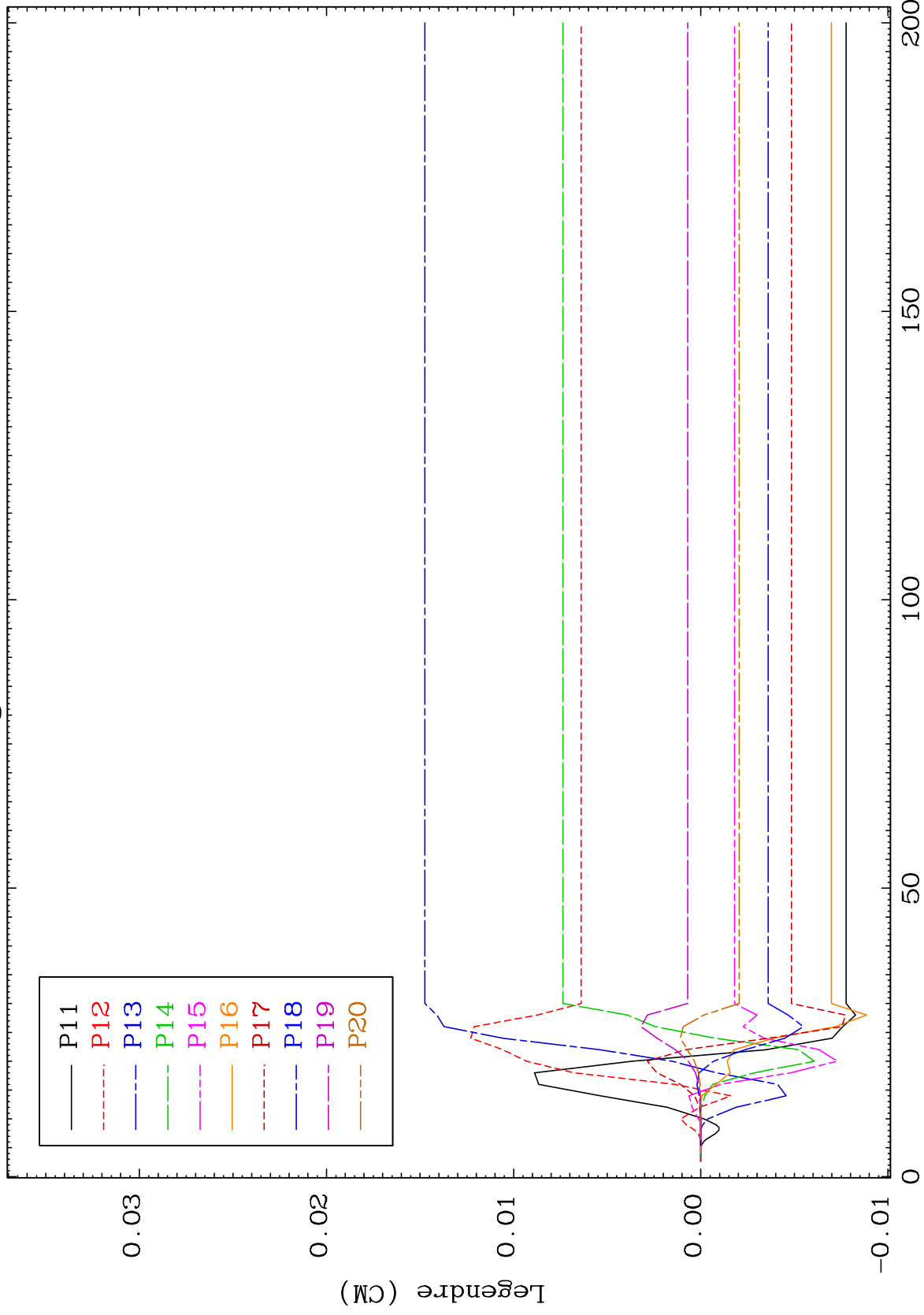




MAT 8204

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

82-Pb-197



94

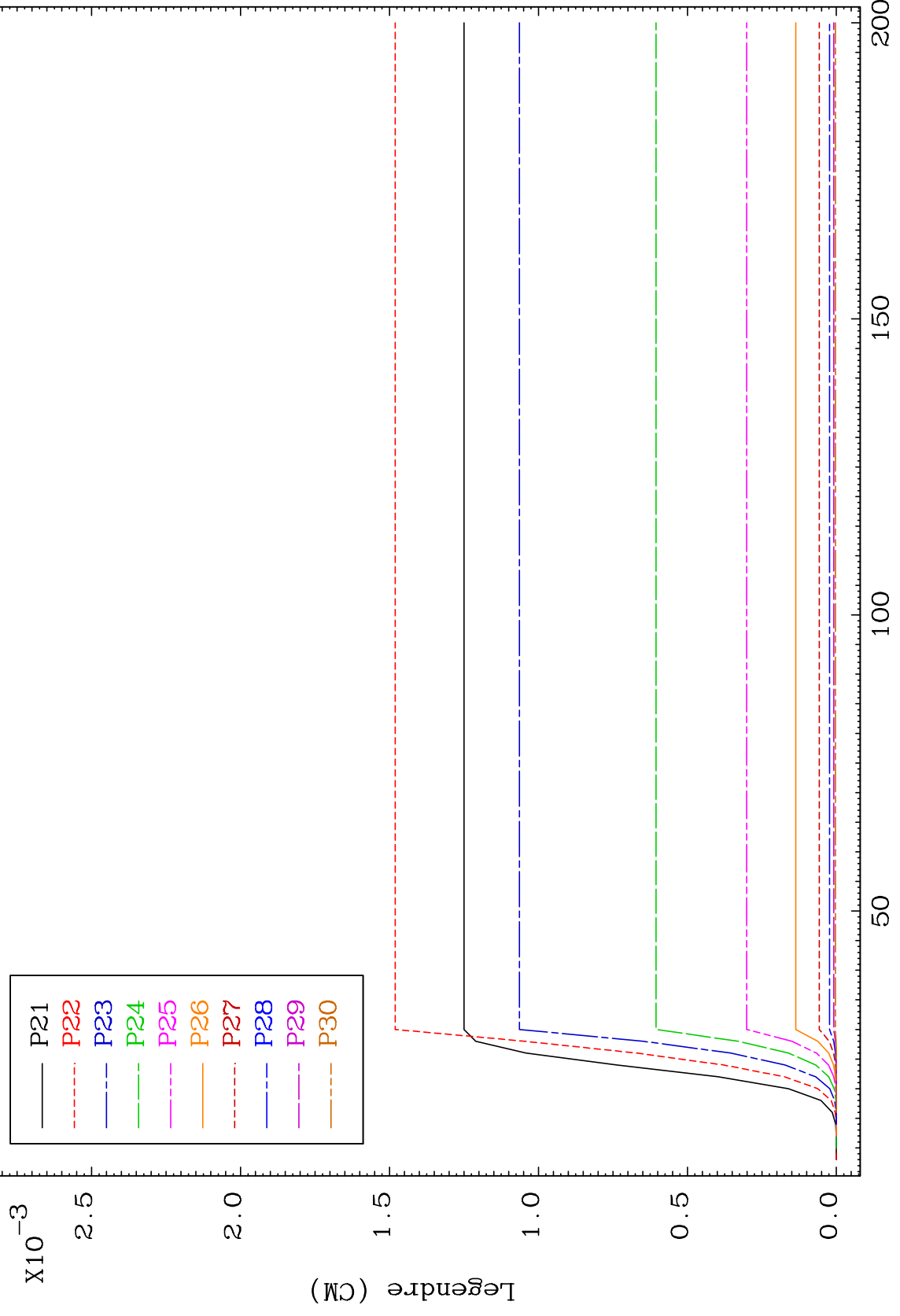
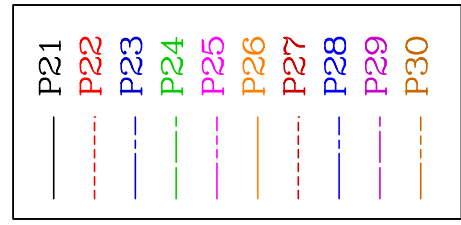
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

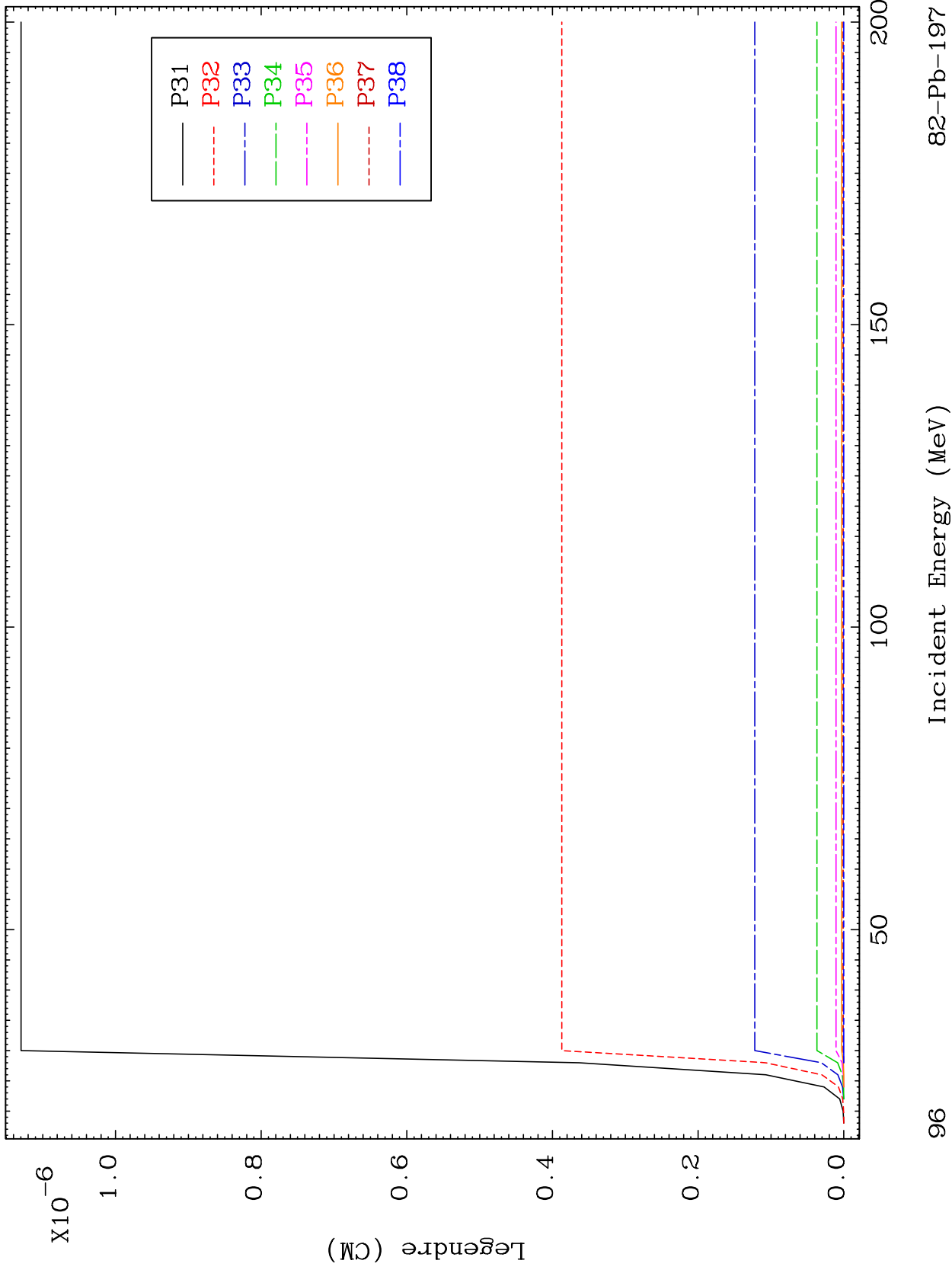
82-Pb-197

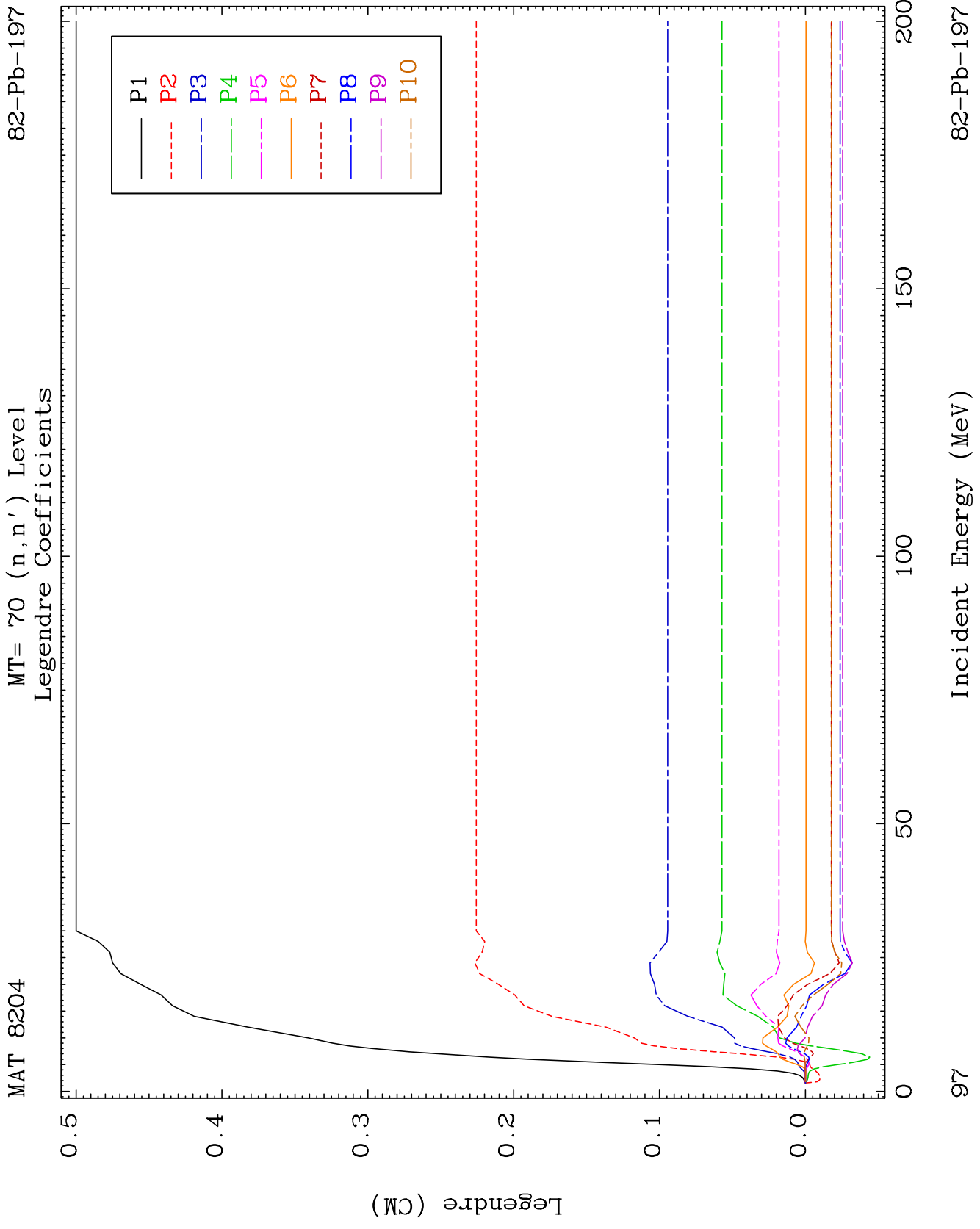


95

Incident Energy (MeV)

82-Pb-197

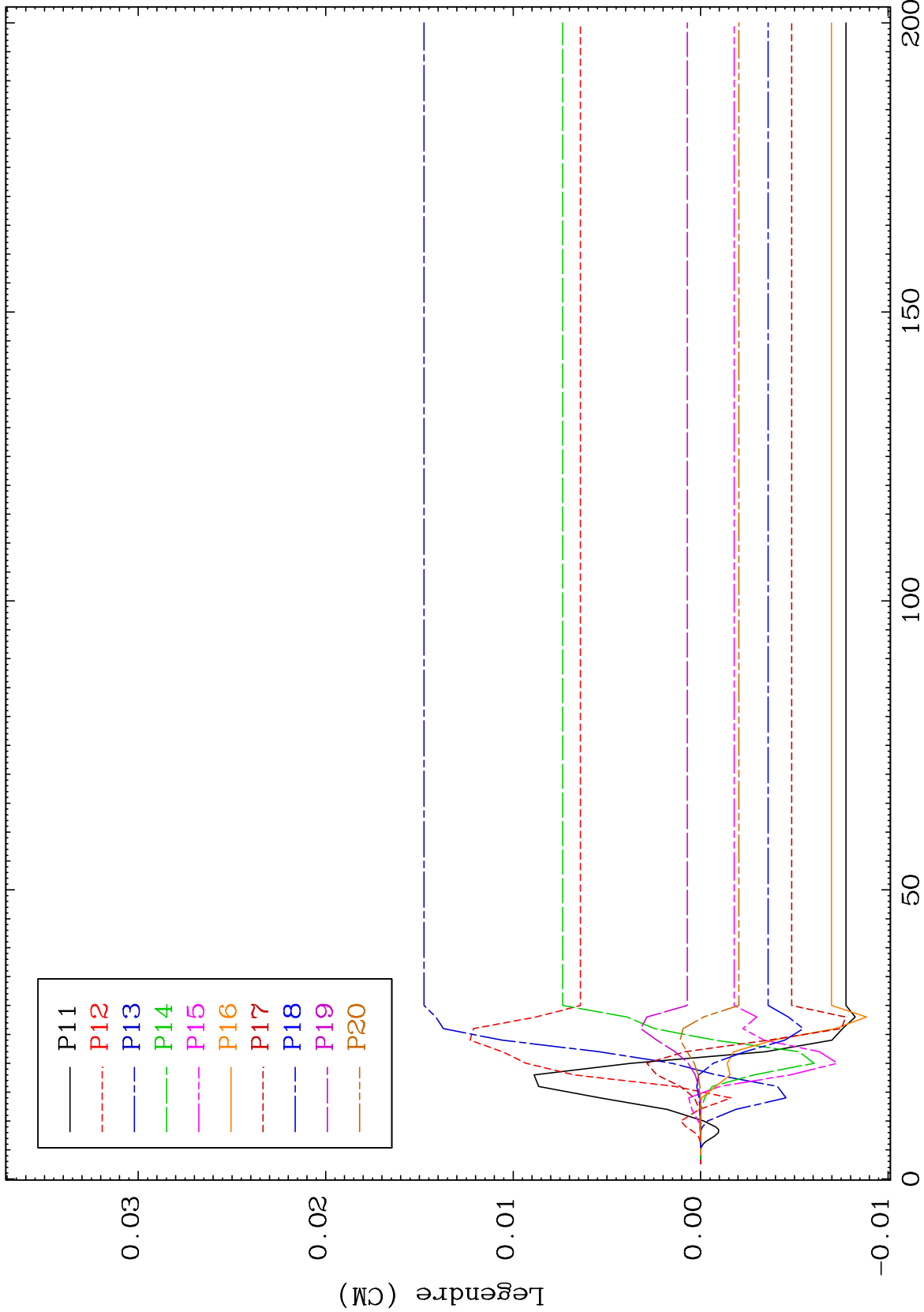




MAT 8204

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

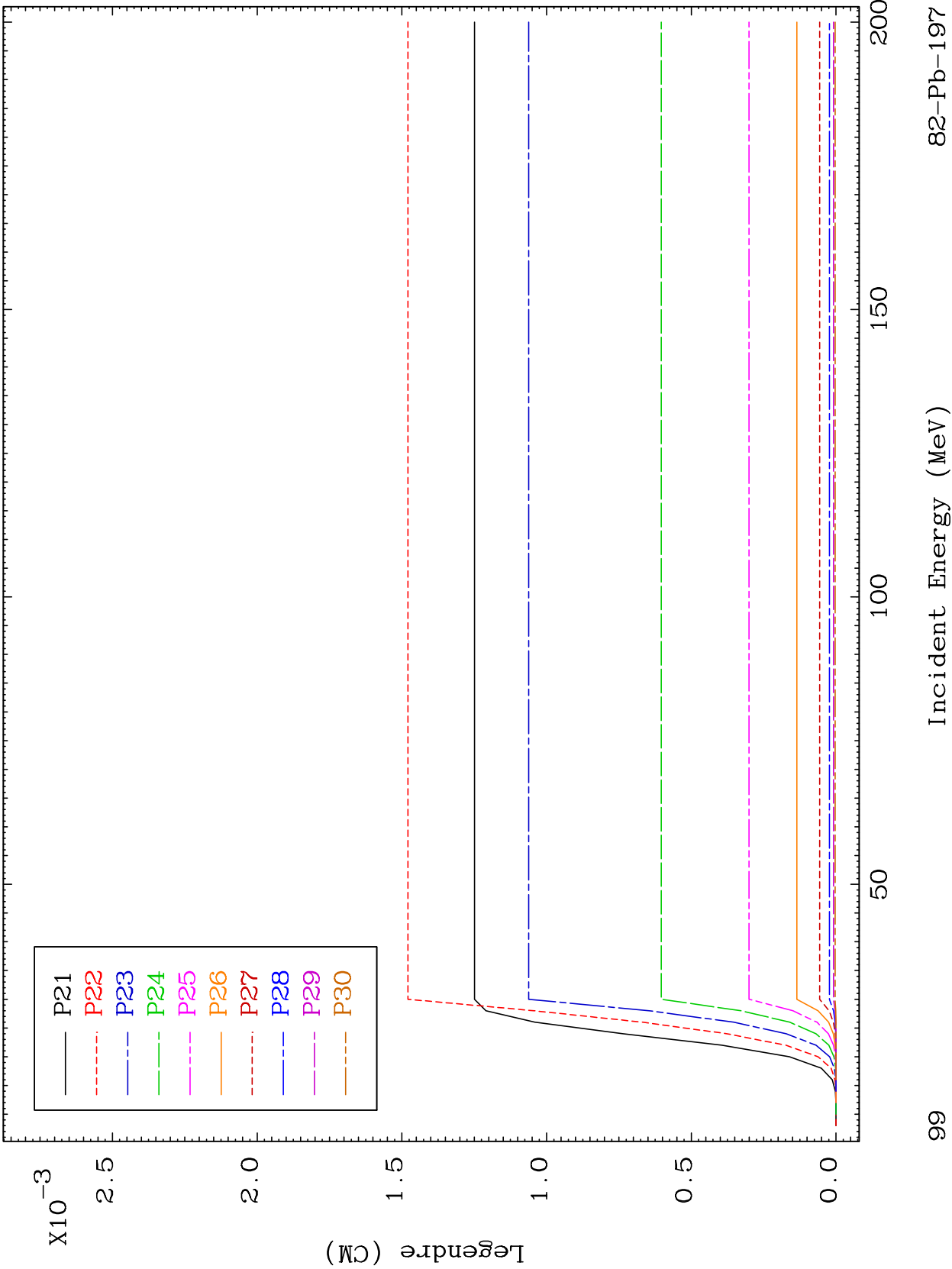
82-Pb-197



98

Incident Energy (MeV)

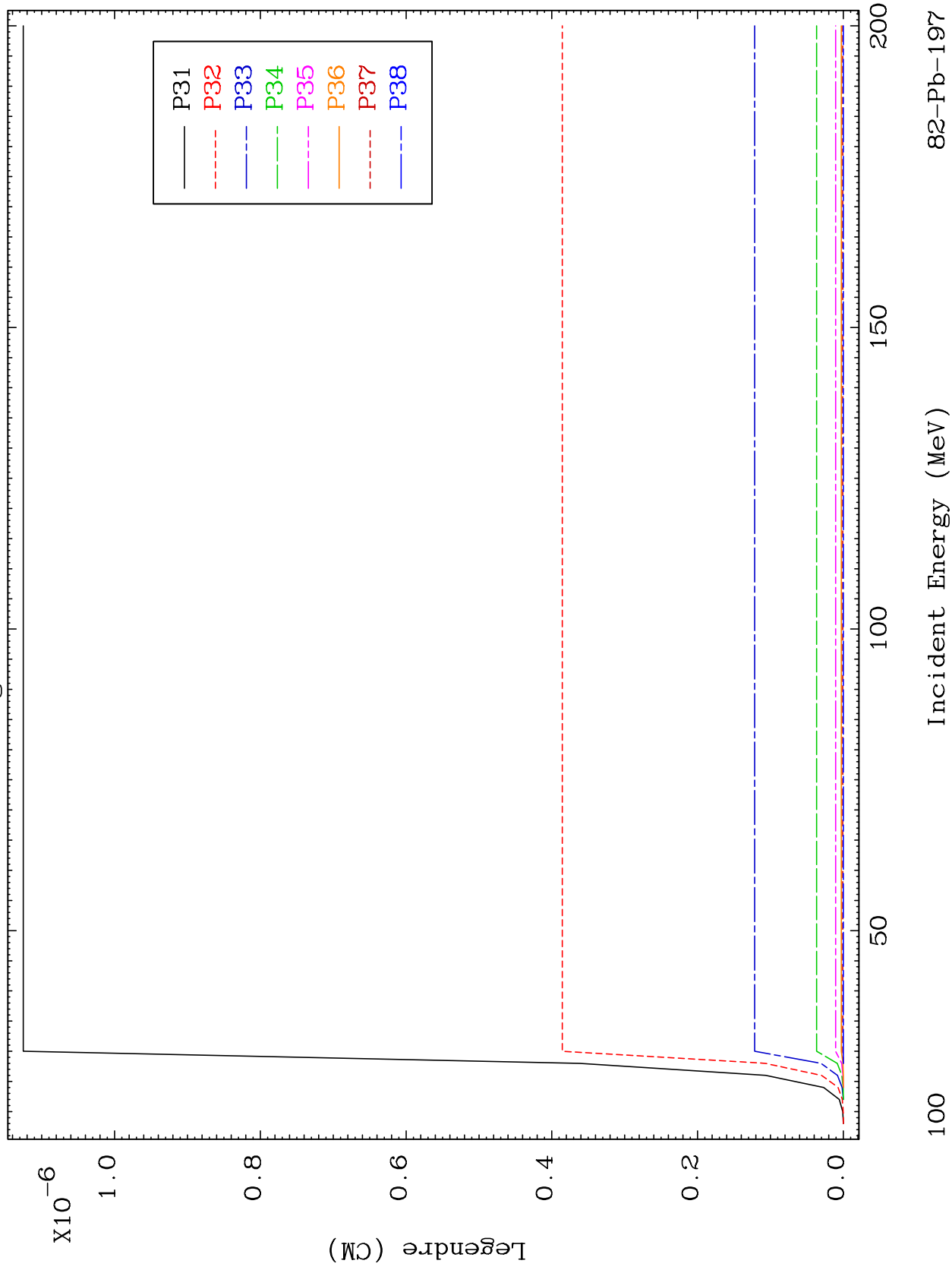
82-Pb-197



MAT 8204

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

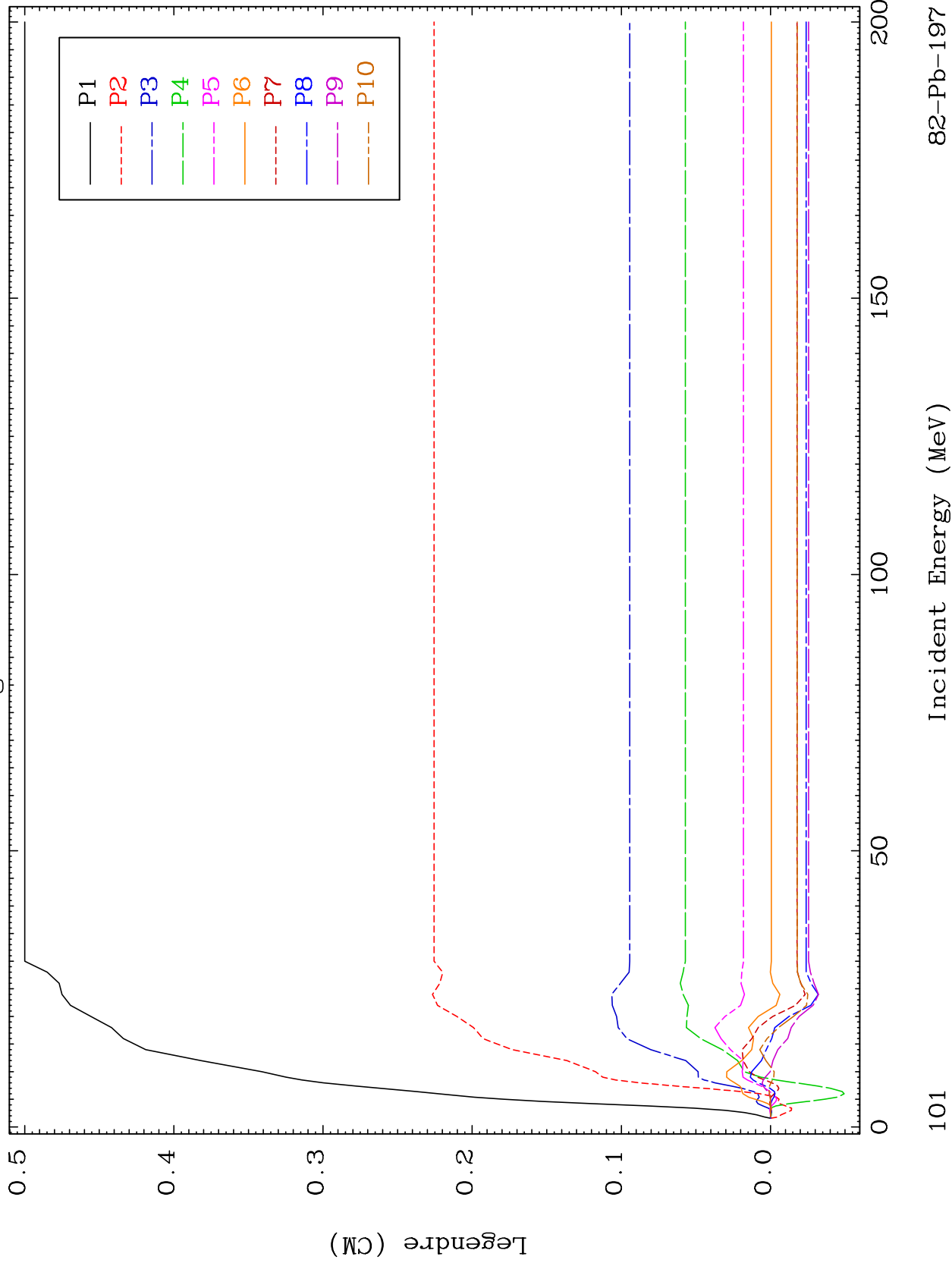
82-Pb-197



MAT 8204

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

82-Pb-197

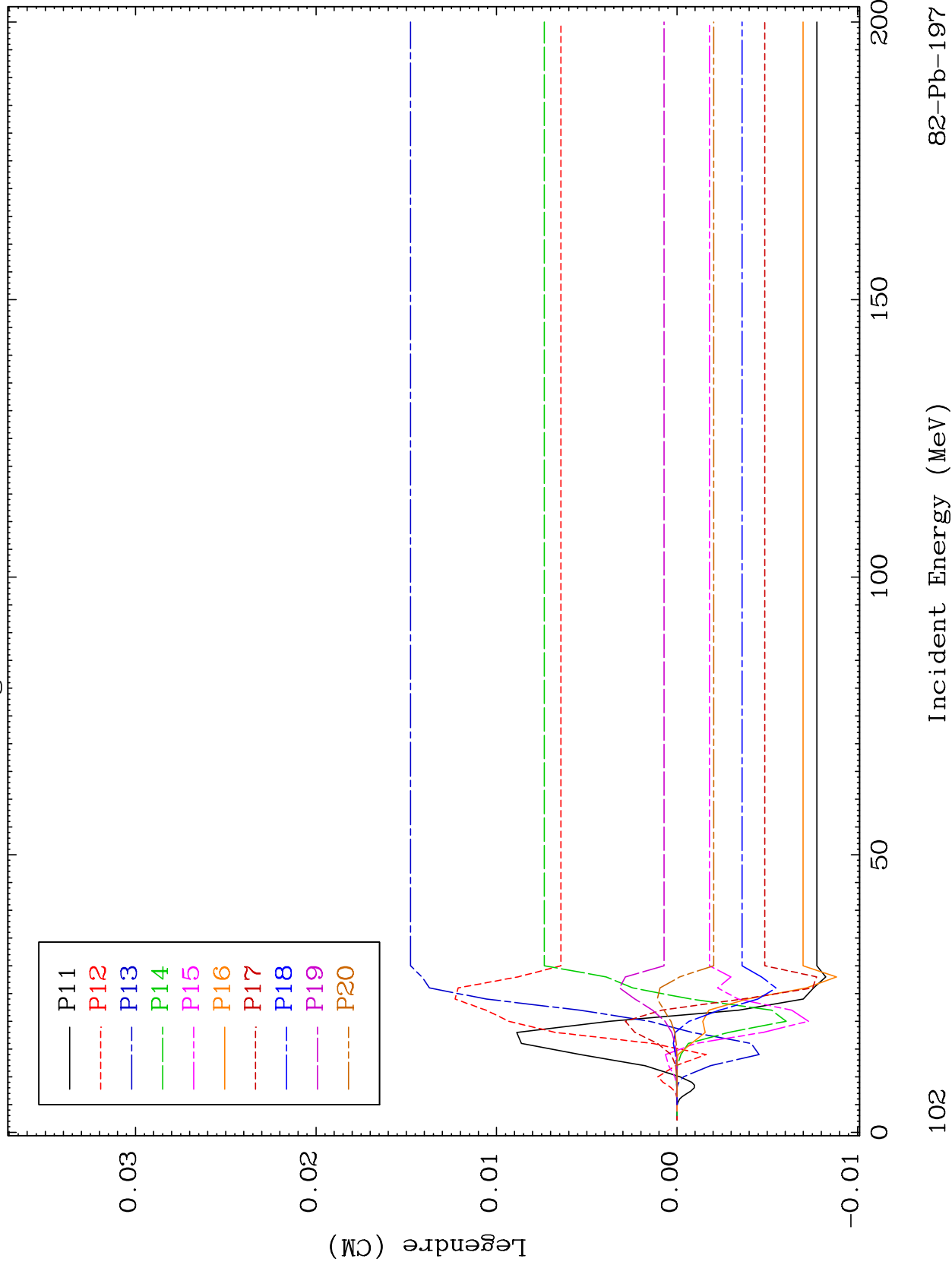


101

MAT 8204

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

82-Pb-197

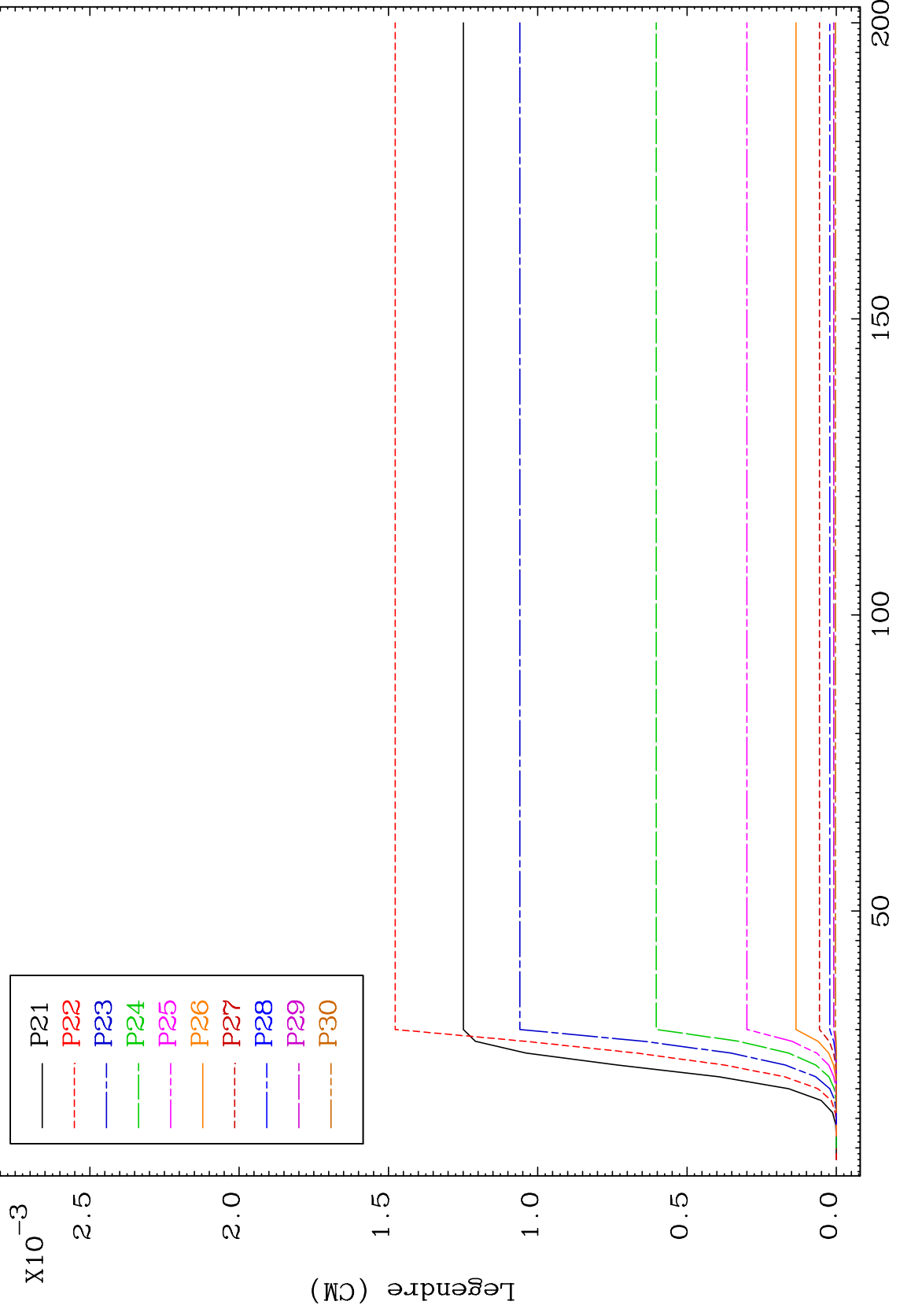
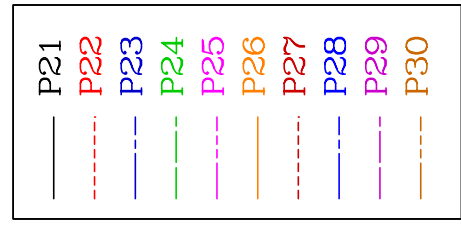


102

MAT 8204

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

82-Pb-197



103

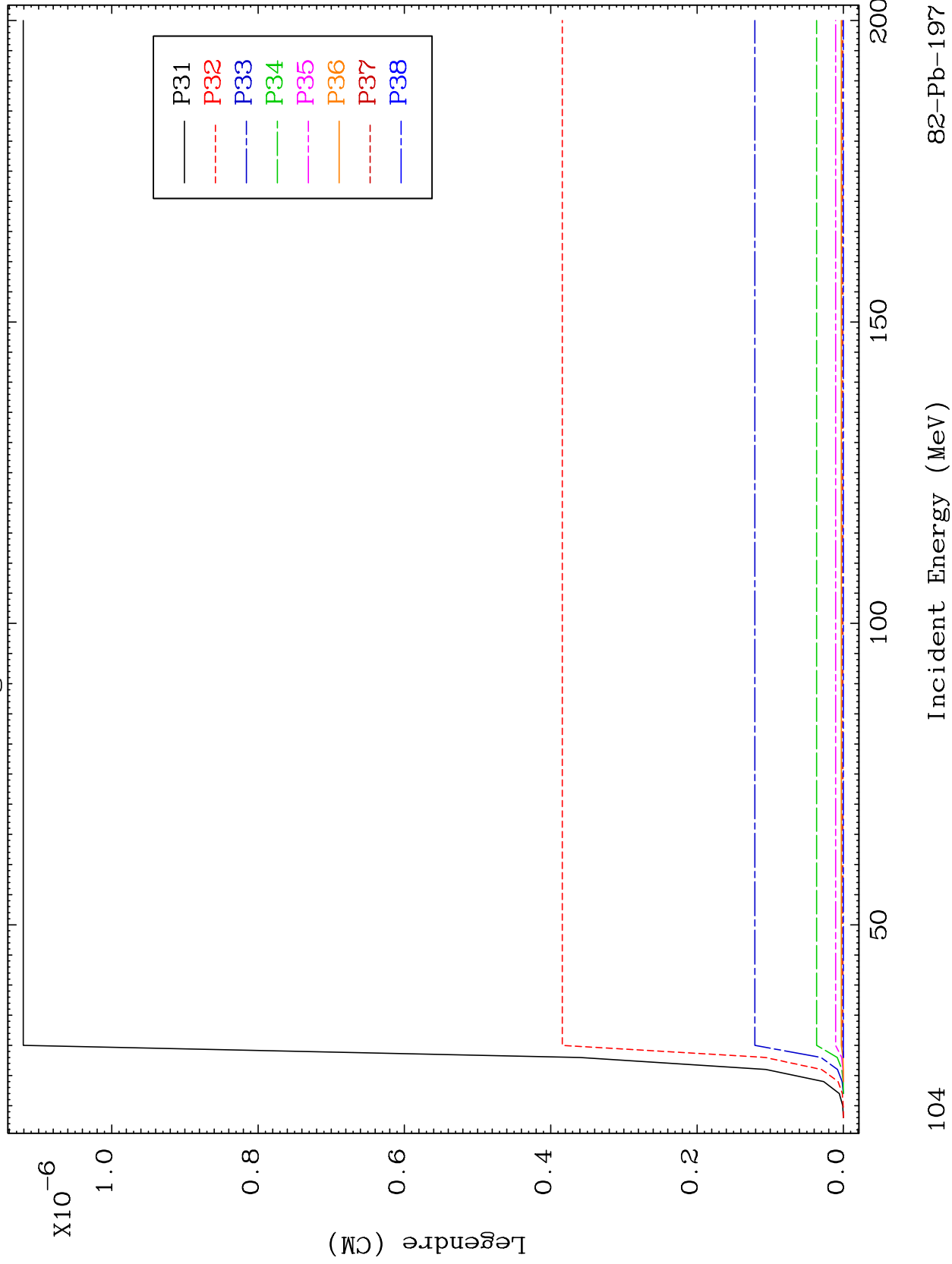
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

82-Pb-197

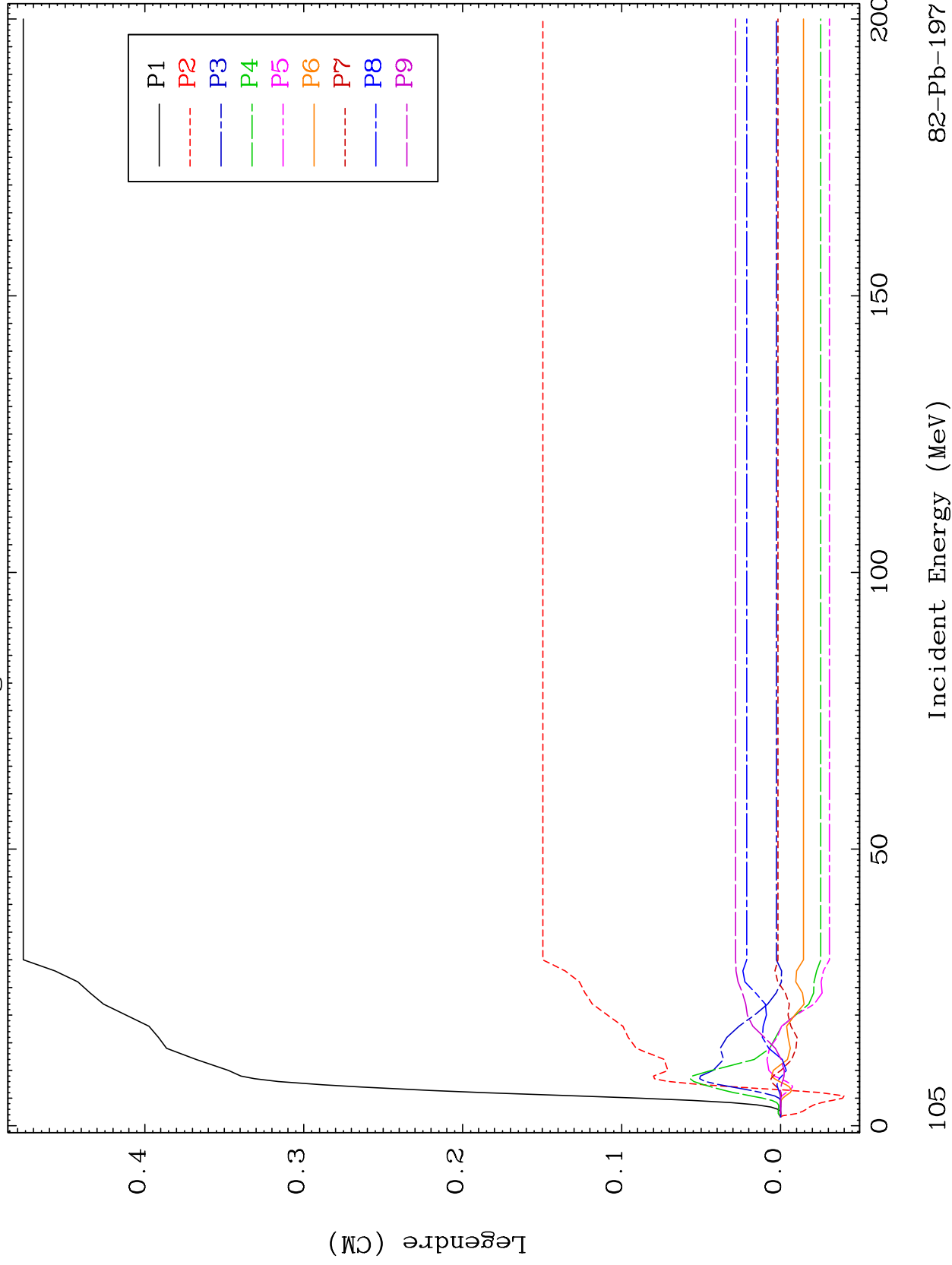


104

MAT 8204

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

82-Pb-197



82-Pb-197

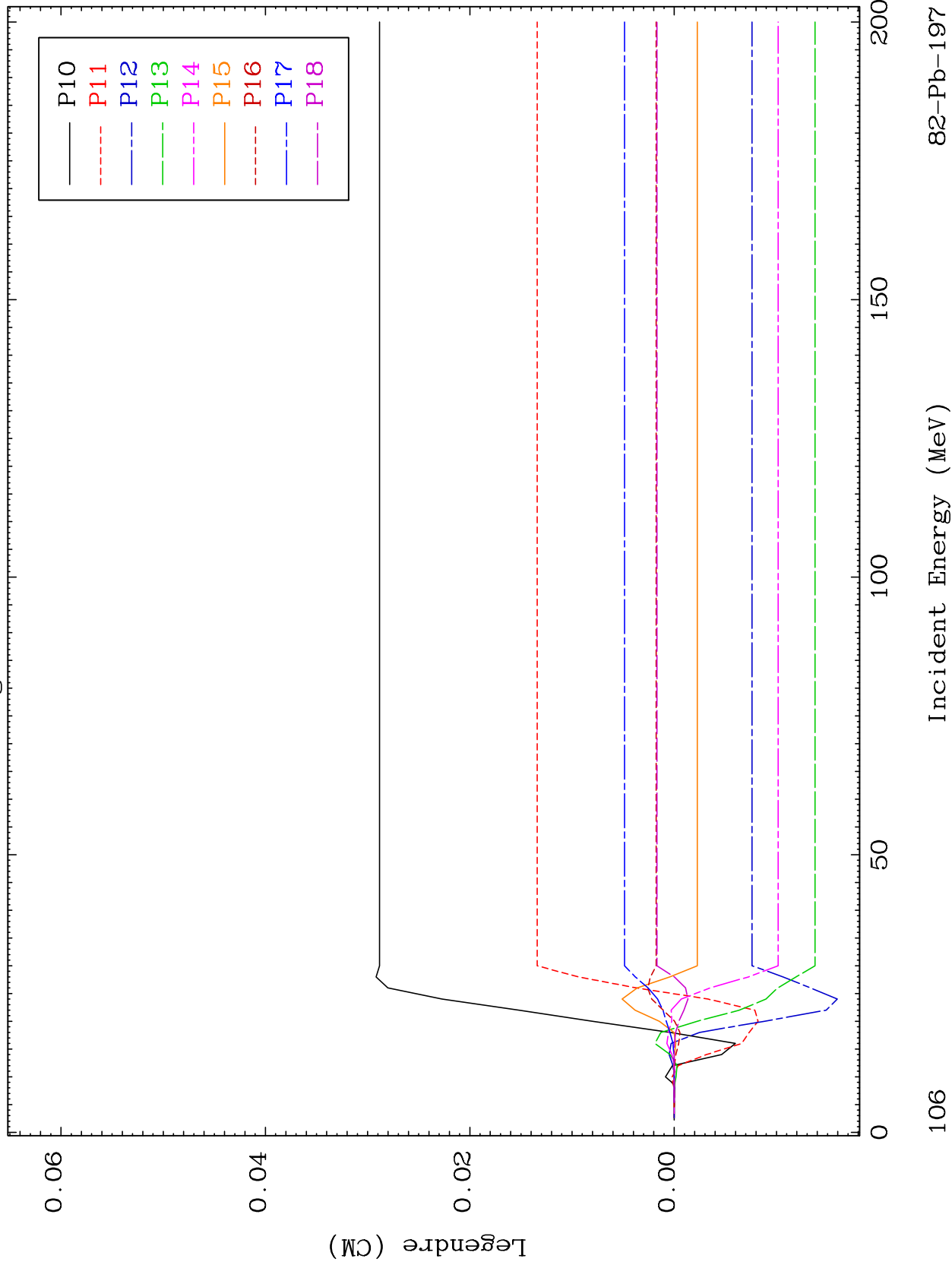
Incident Energy (MeV)

105

MAT 8204

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

82-Pb-197



82-Pb-197

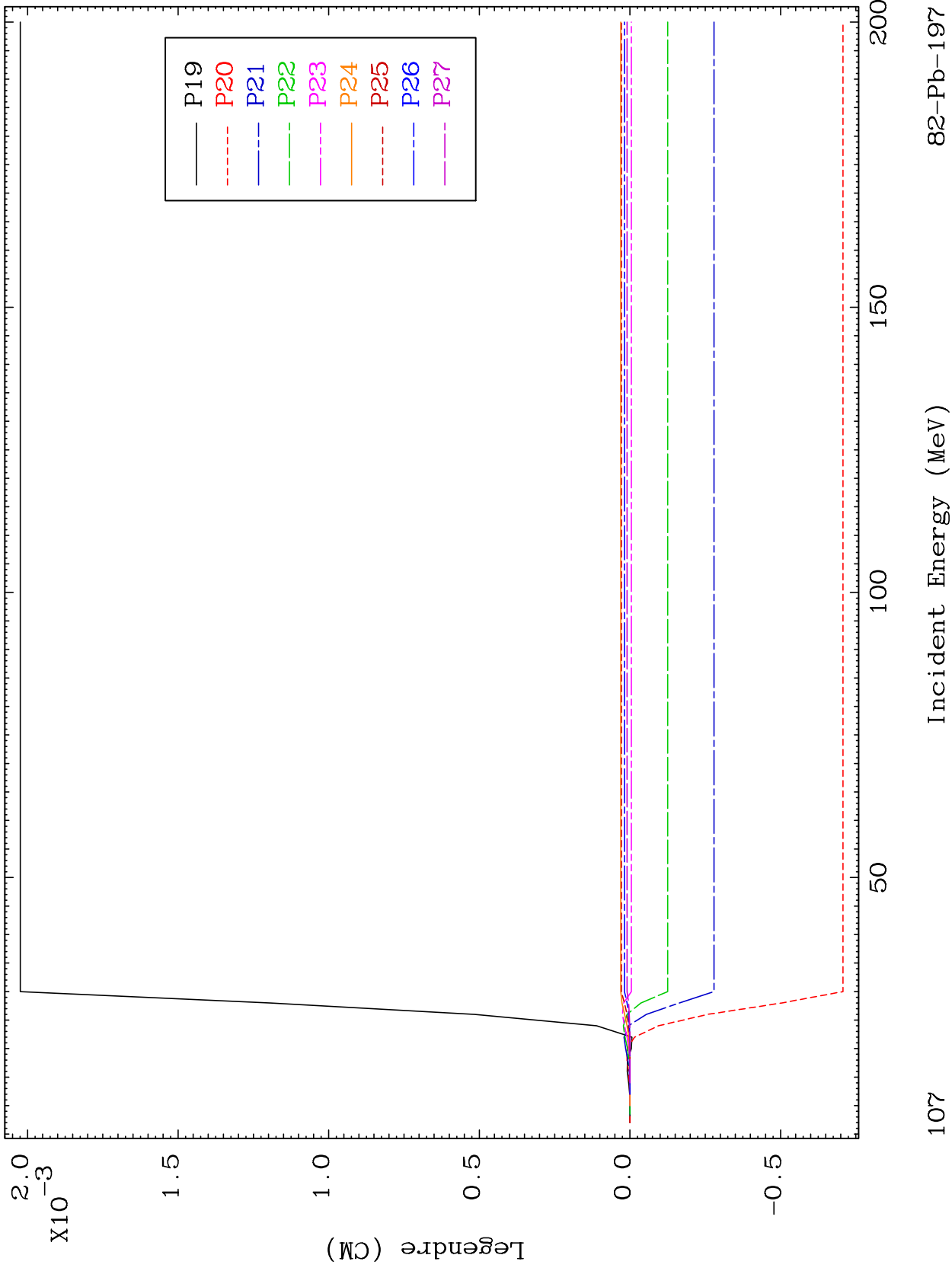
Incident Energy (MeV)

106

MAT 8204

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

82-Pb-197



107

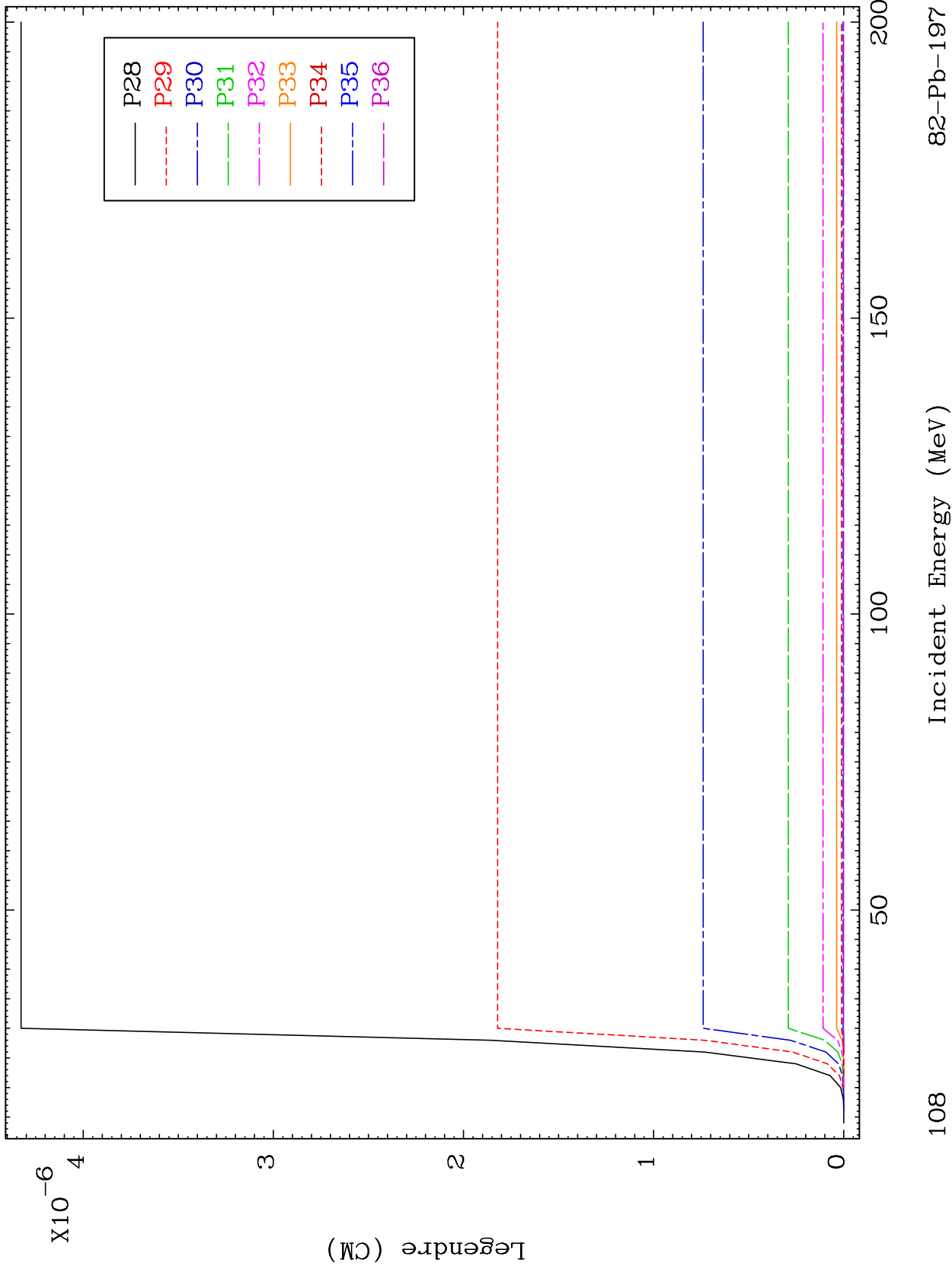
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

82-Pb-197



108

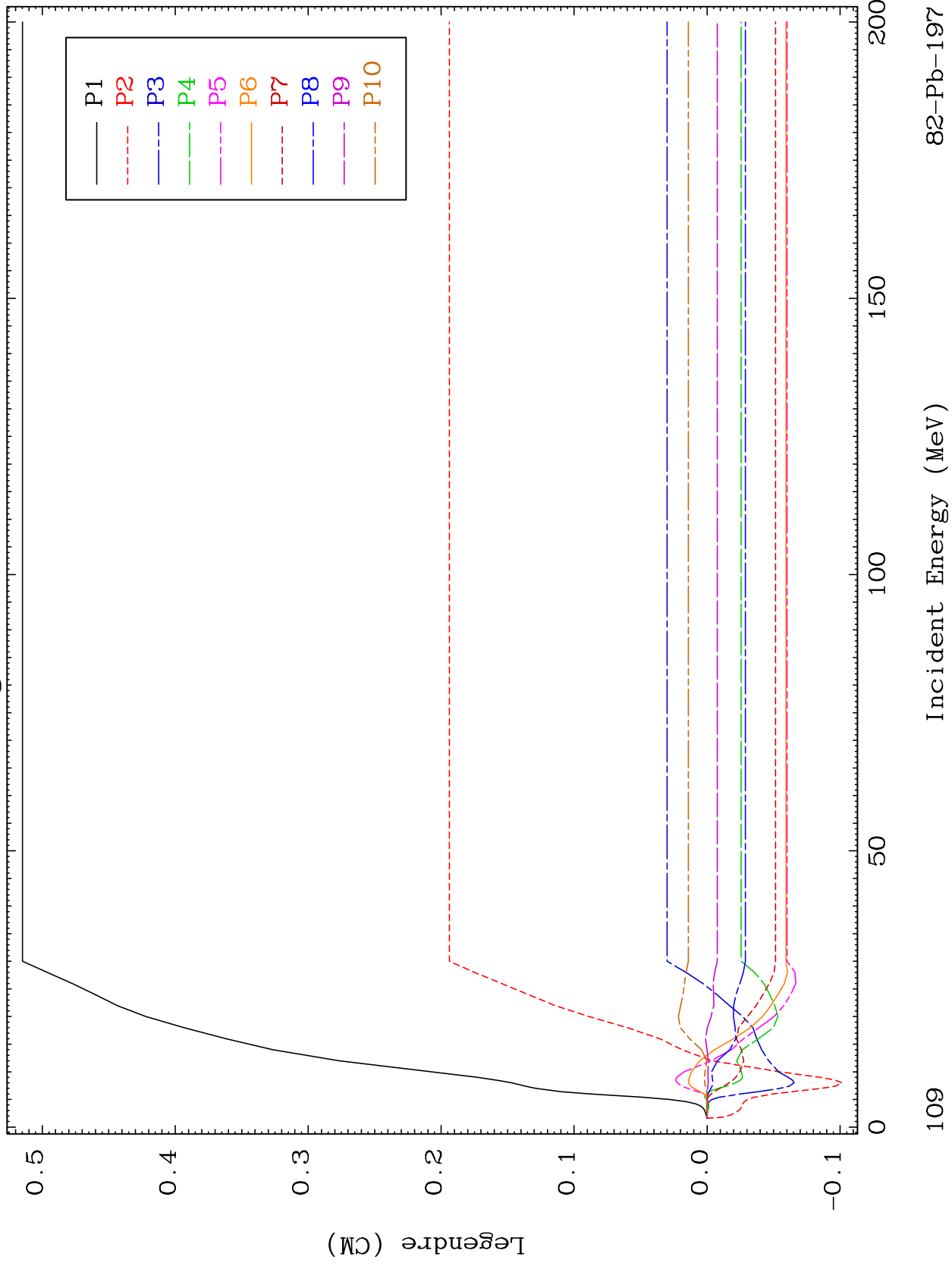
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

82-Pb-197



82-Pb-197

Incident Energy (MeV)

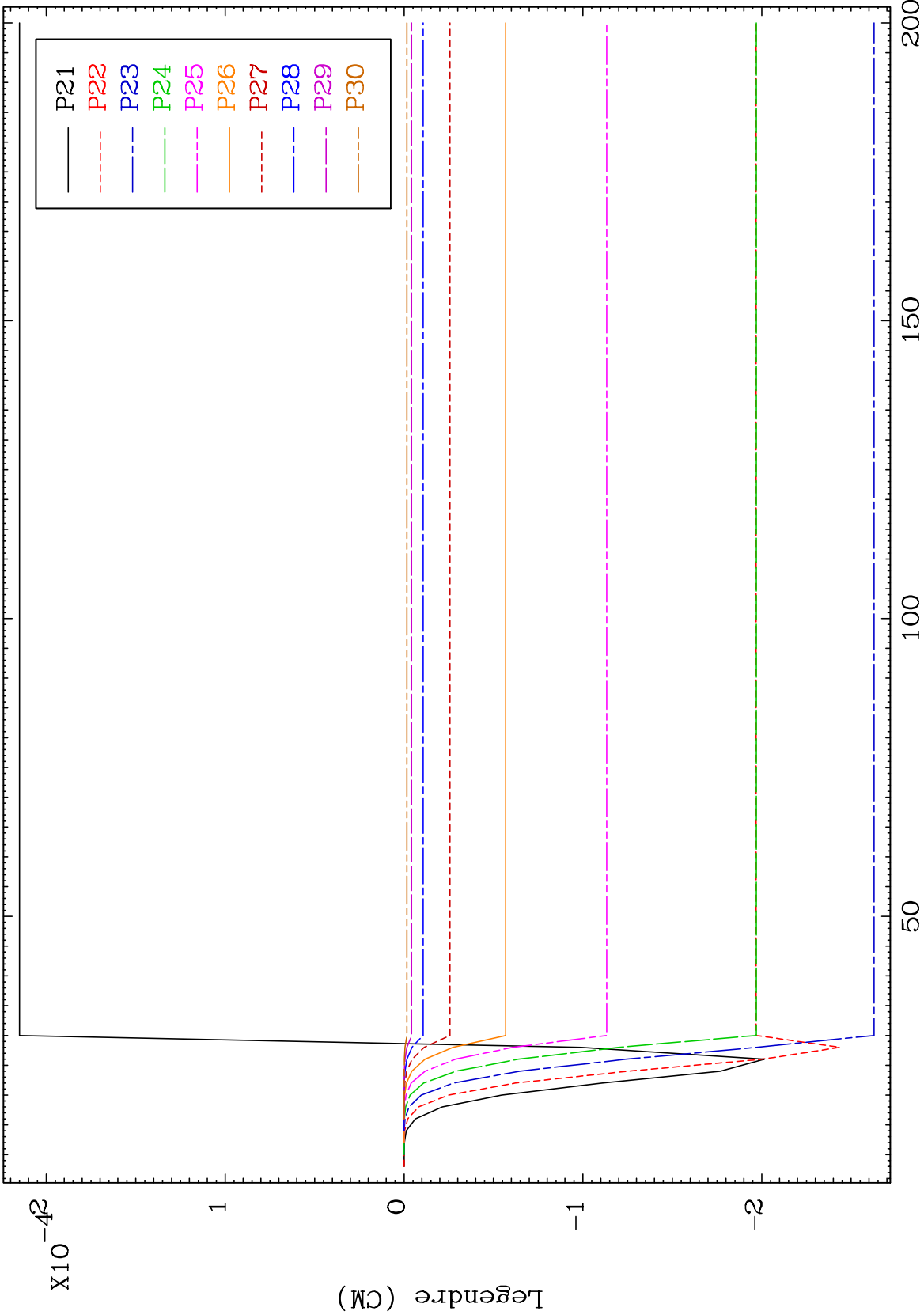
109



MAT 8204

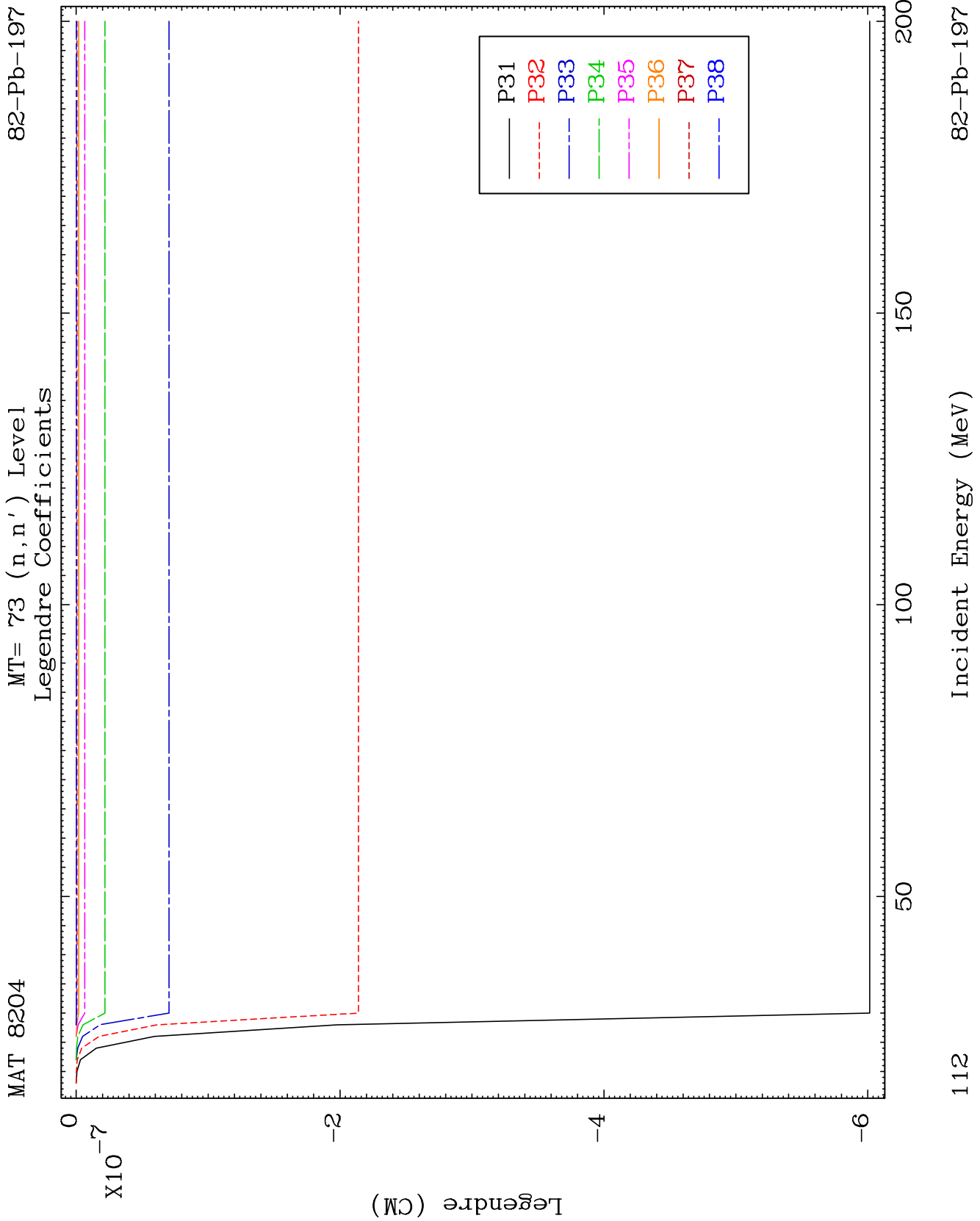
MT= 73 (n,n') Level  
Legendre Coefficients

82-Pb-197



111

82-Pb-197

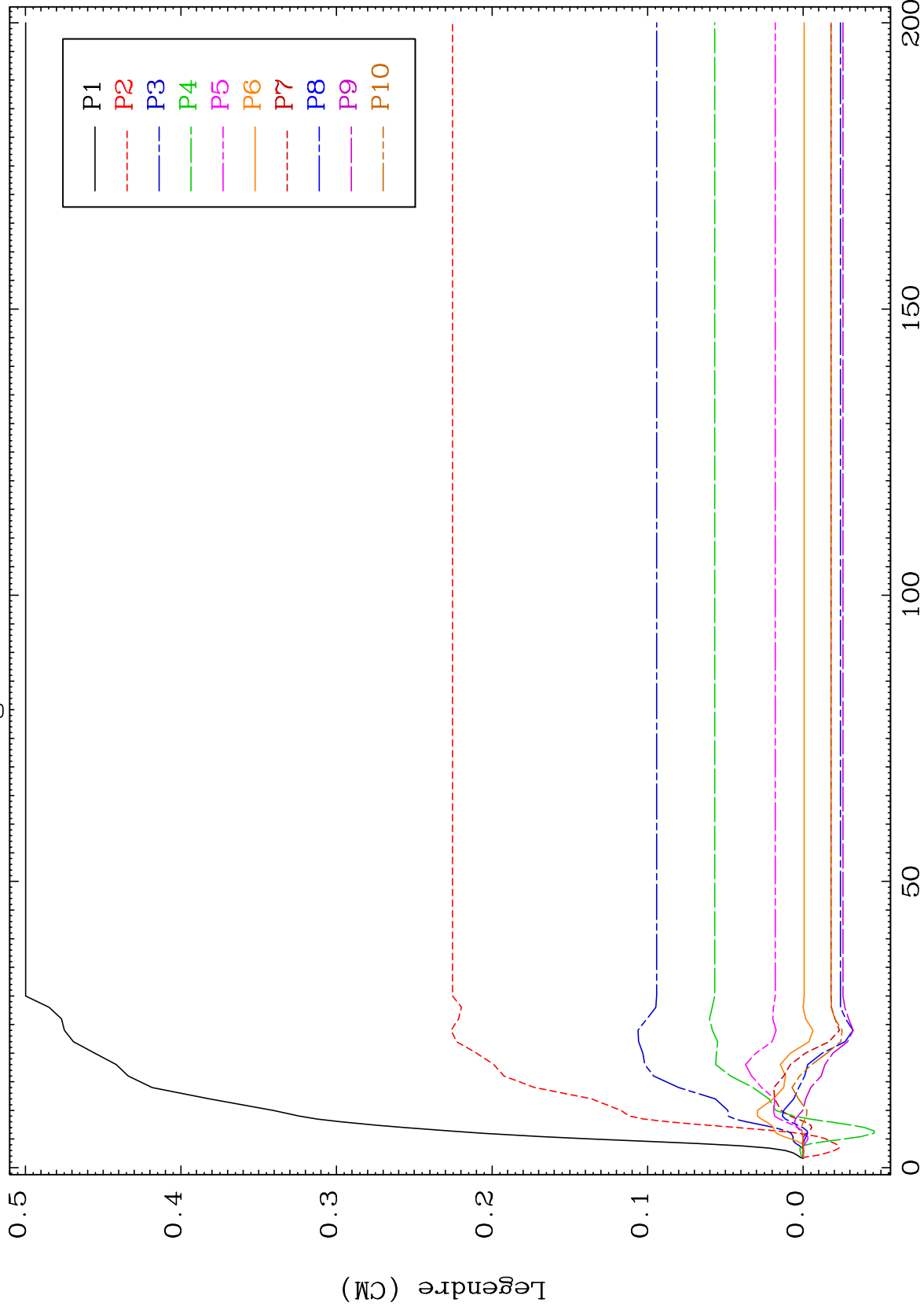


MAT 8204

MT= 74 (n,n') Level

82-Pb-197

Legendre Coefficients



113

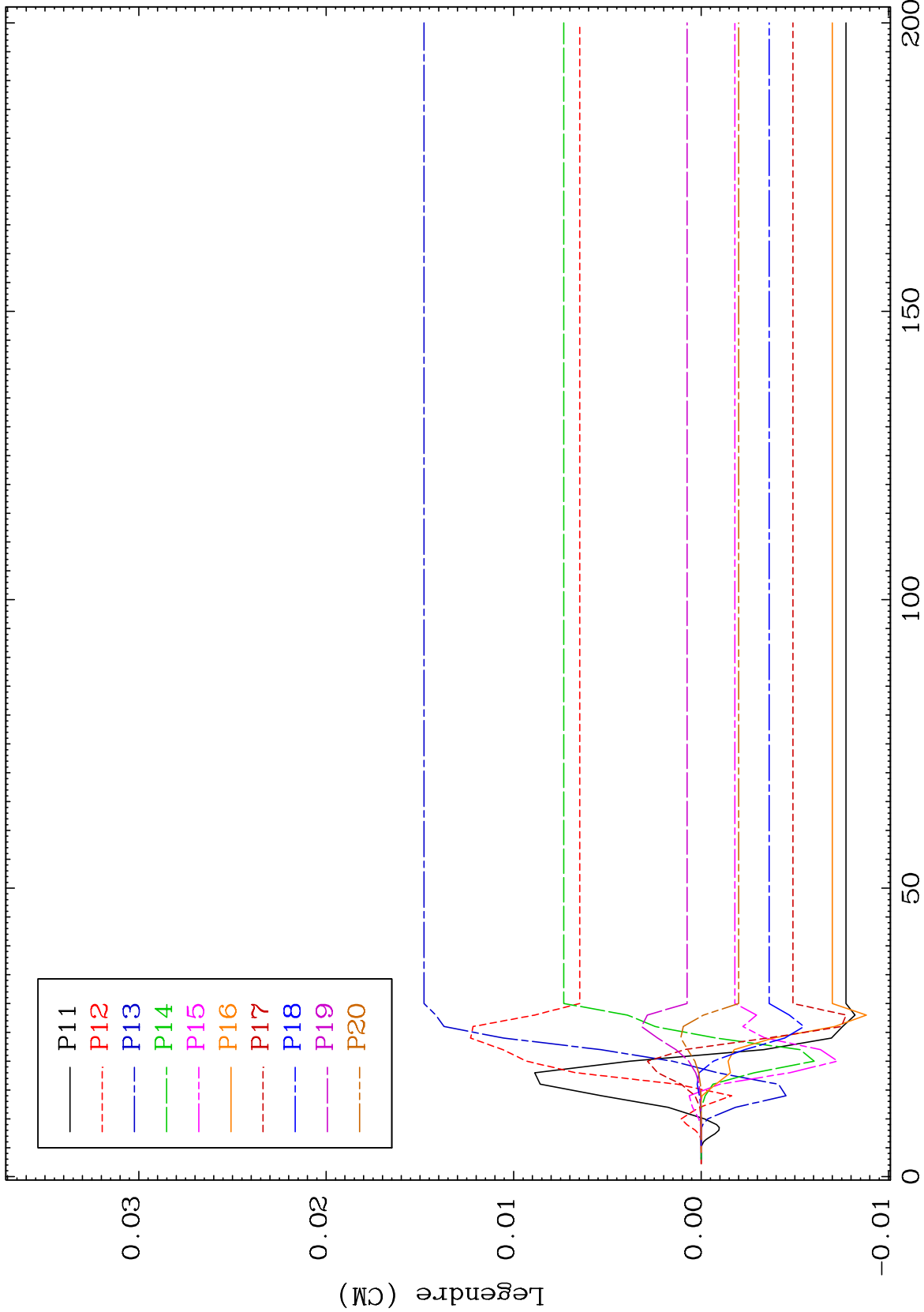
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

82-Pb-197



114

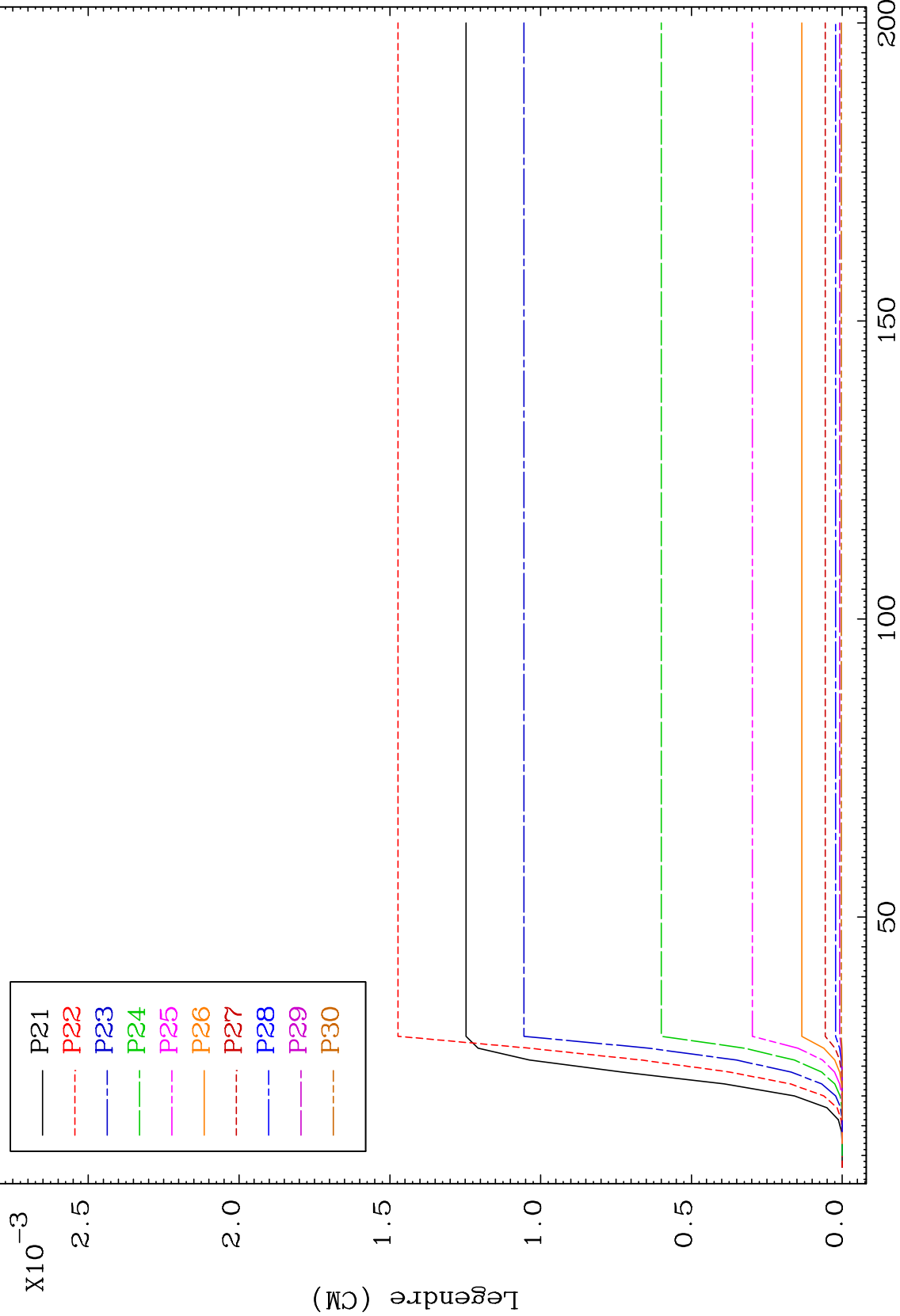
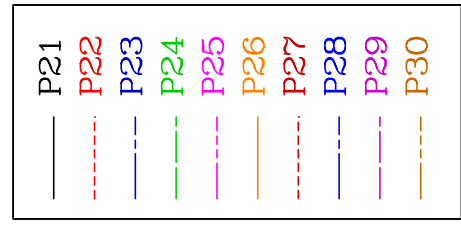
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

82-Pb-197



115

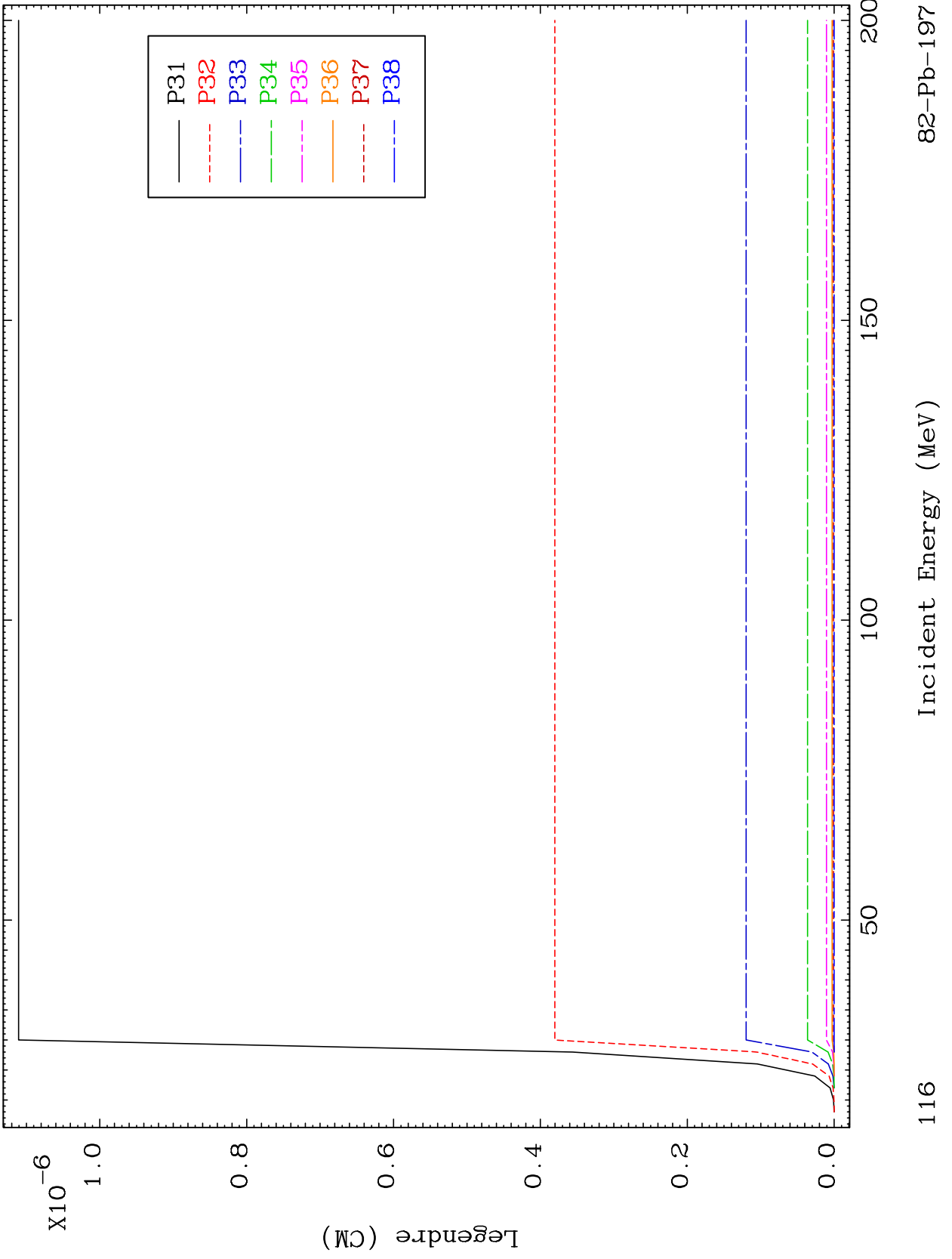
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

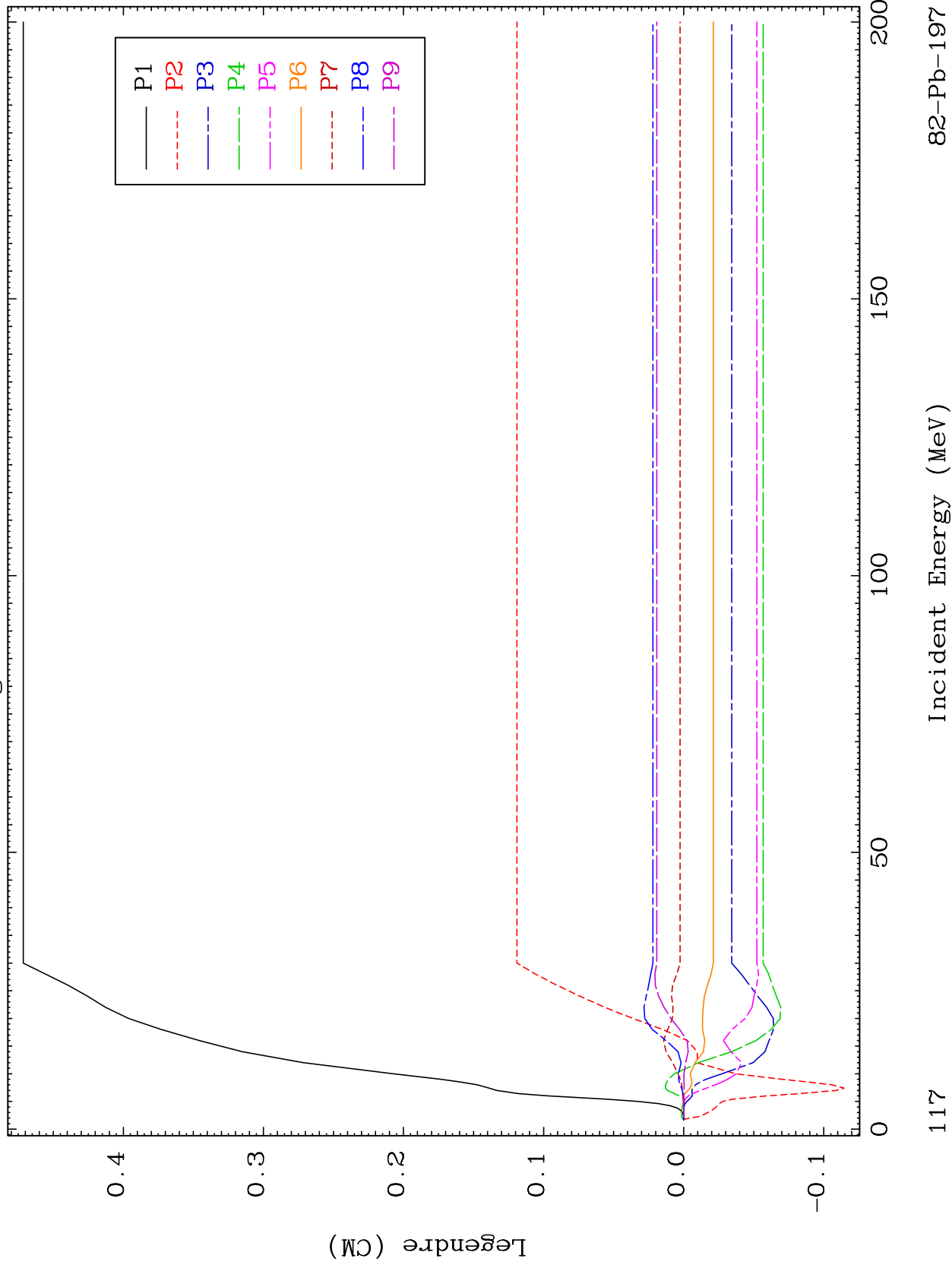
82-Pb-197



MAT 8204

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

82-Pb-197



82-Pb-197

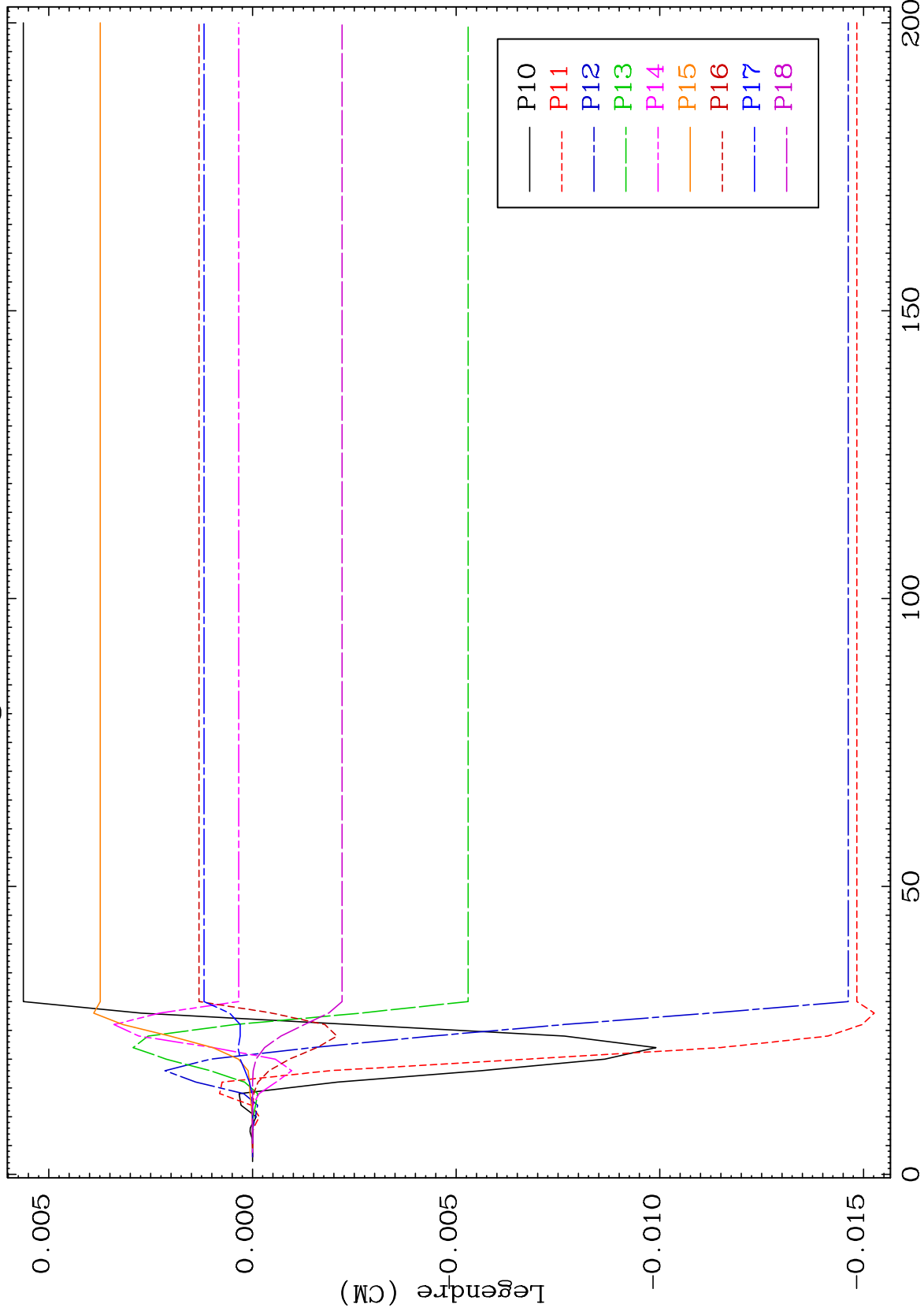
Incident Energy (MeV)

117

MAT 8204

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

82-Pb-197



118

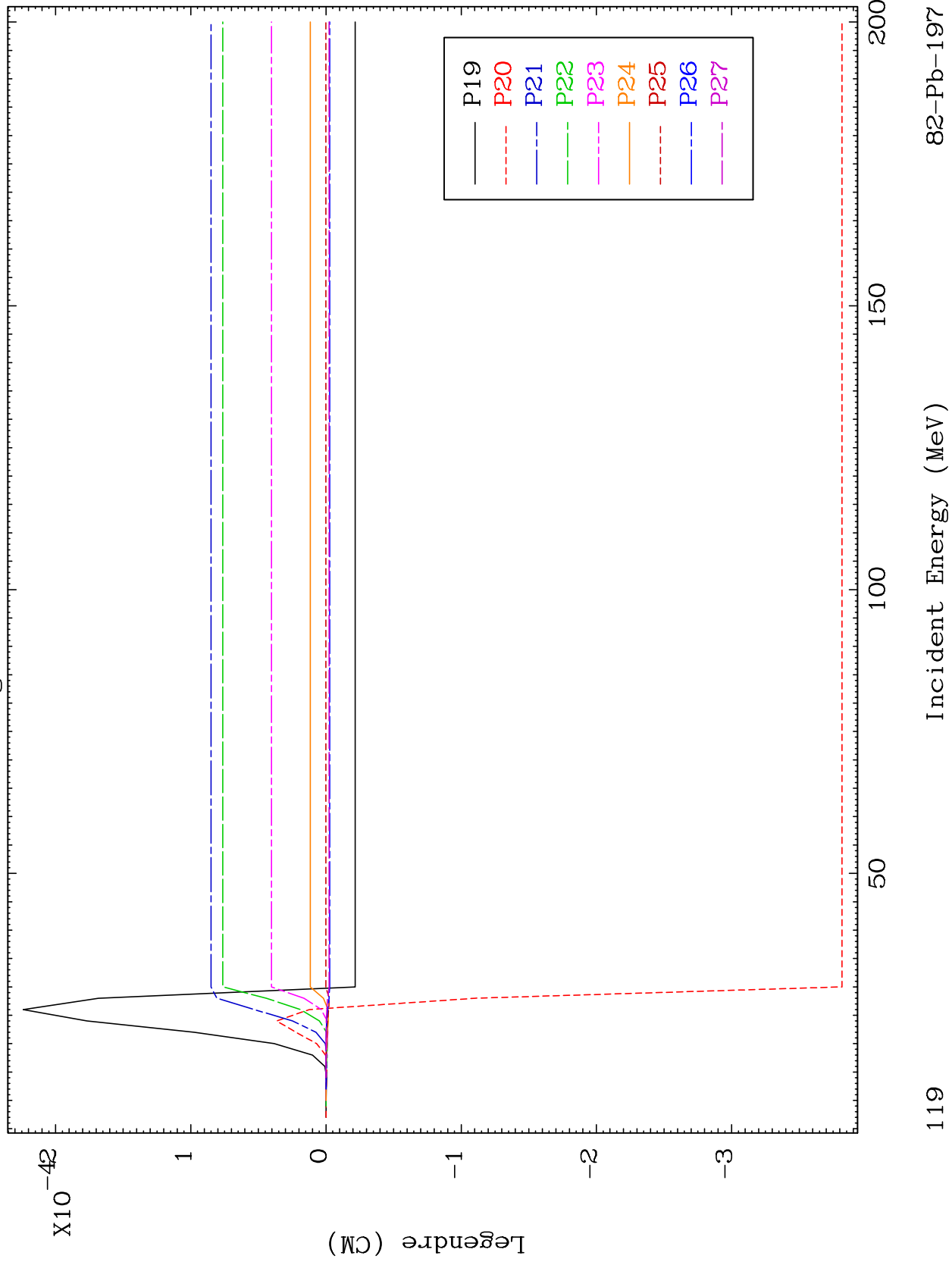
Incident Energy (MeV)

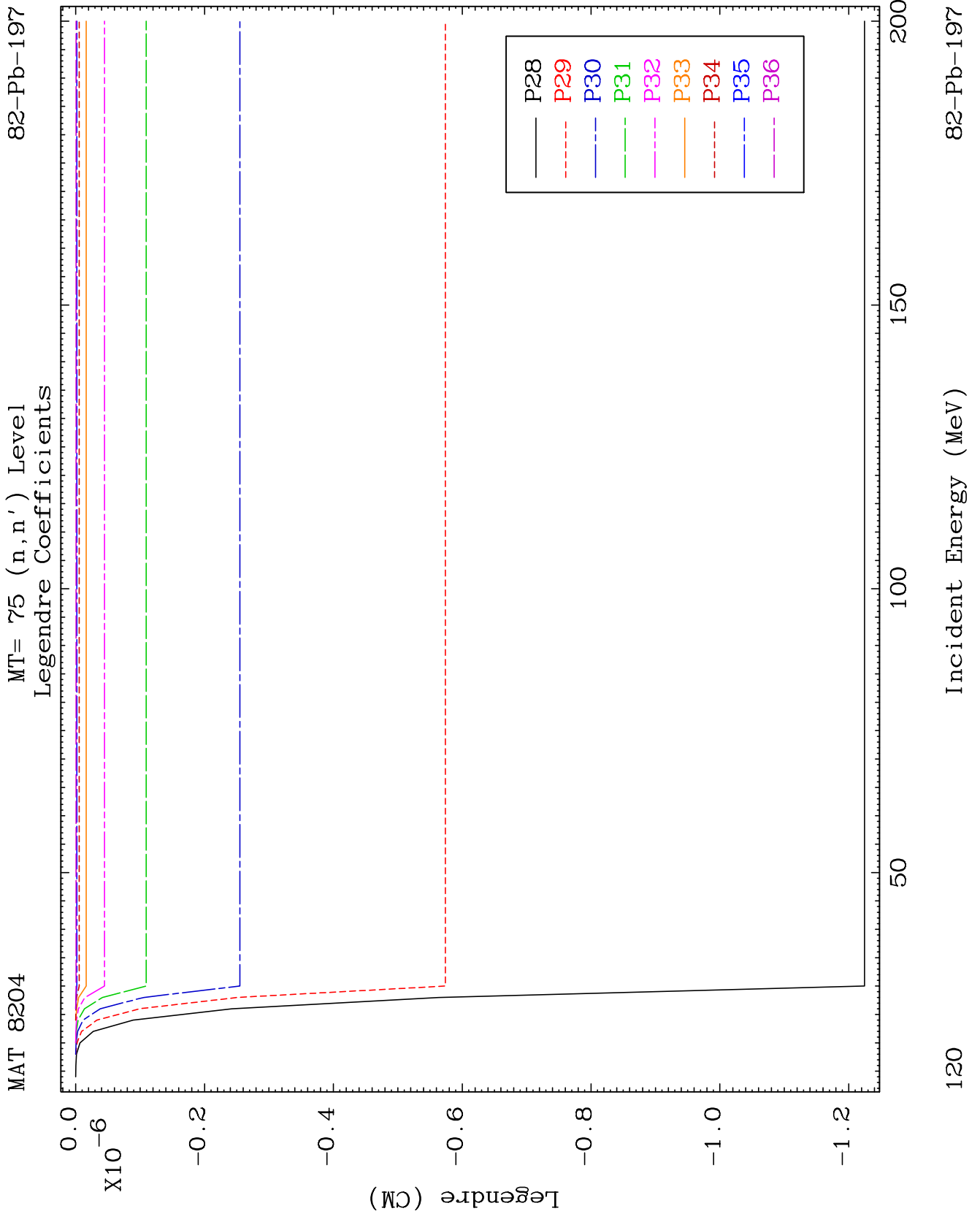
82-Pb-197

MAT 8204

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

82-Pb-197



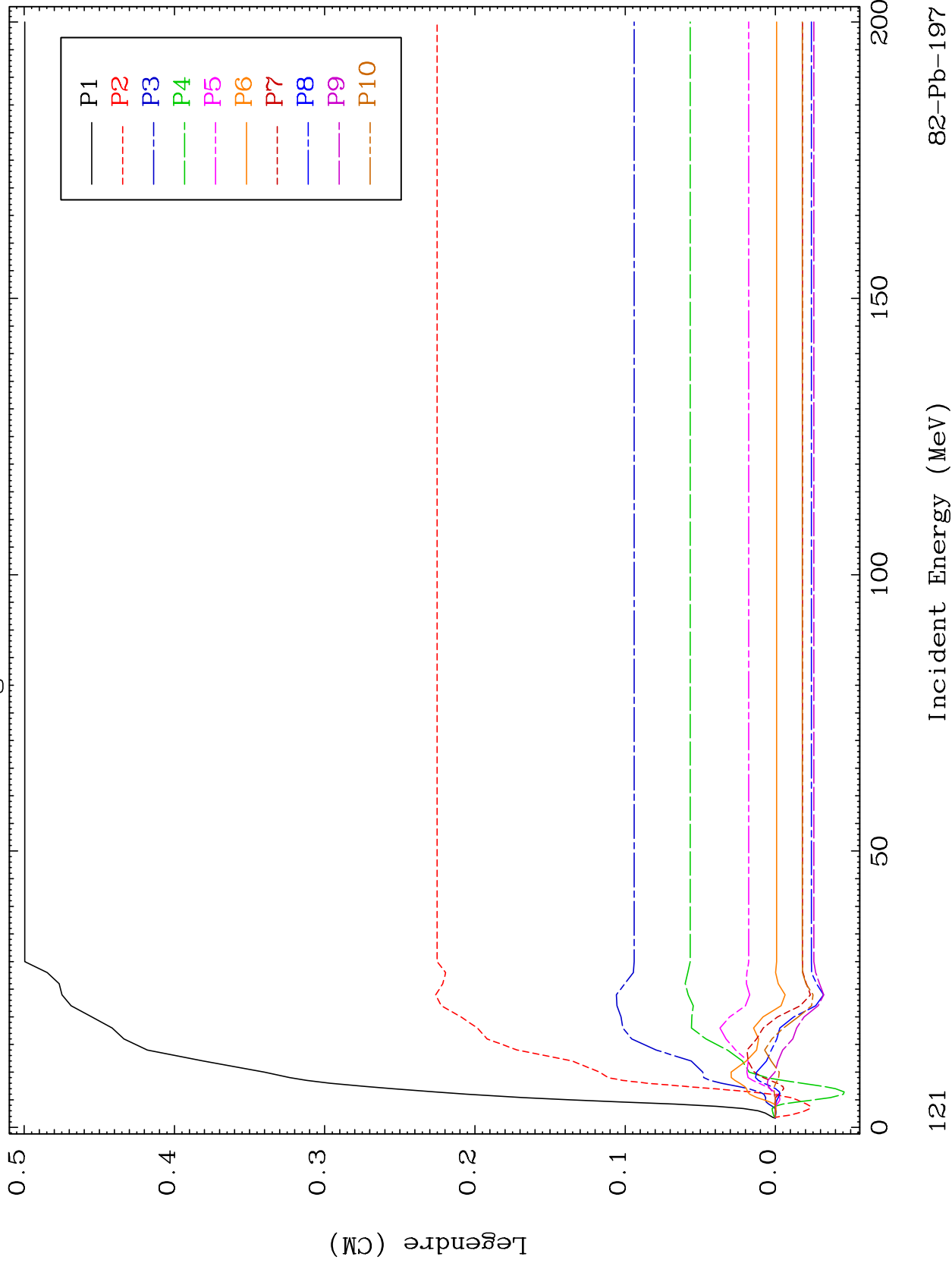


MAT 8204

MT= 76 (n,n') Level

82-Pb-197

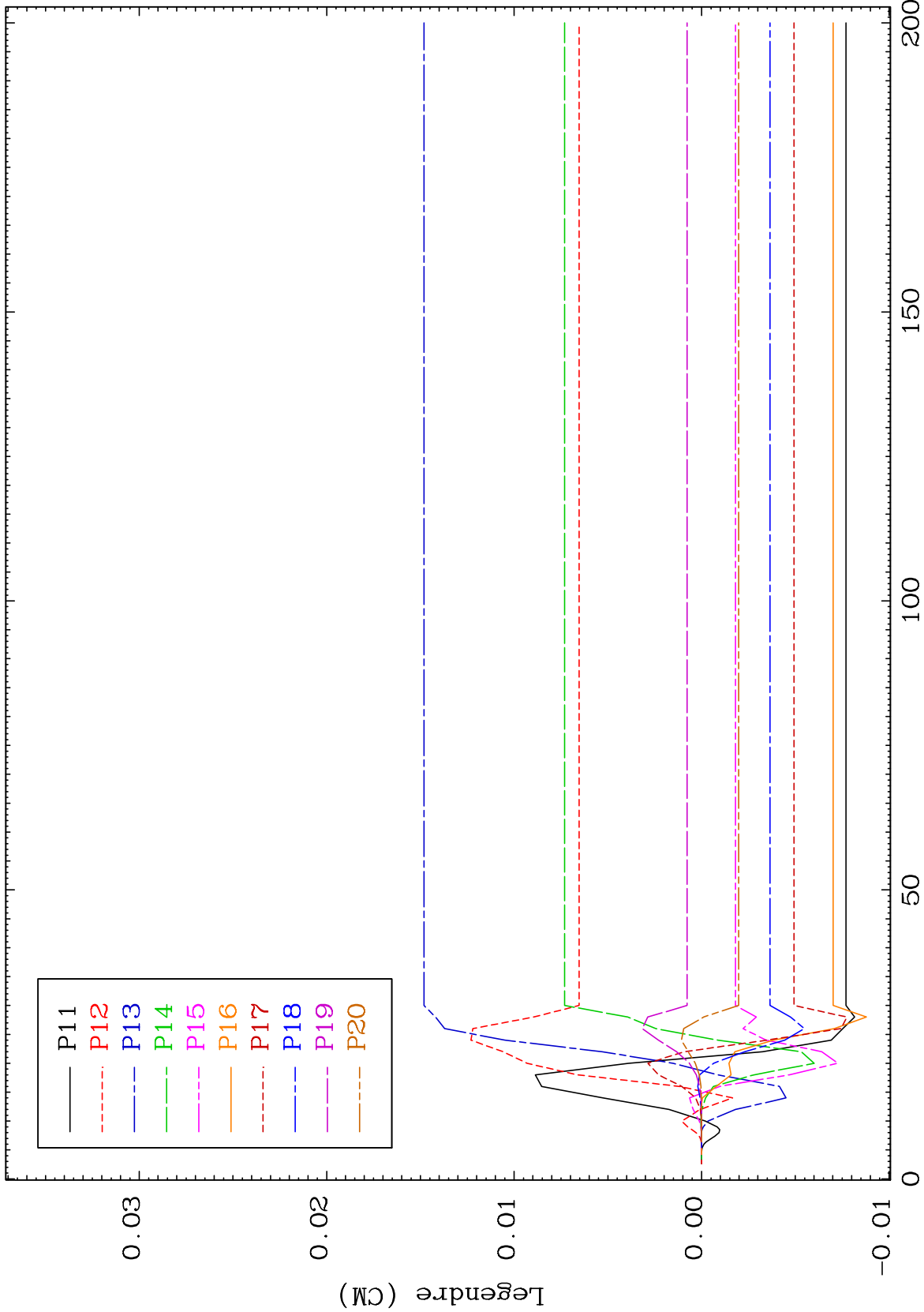
Legendre Coefficients



MAT 8204

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

82-Pb-197



122

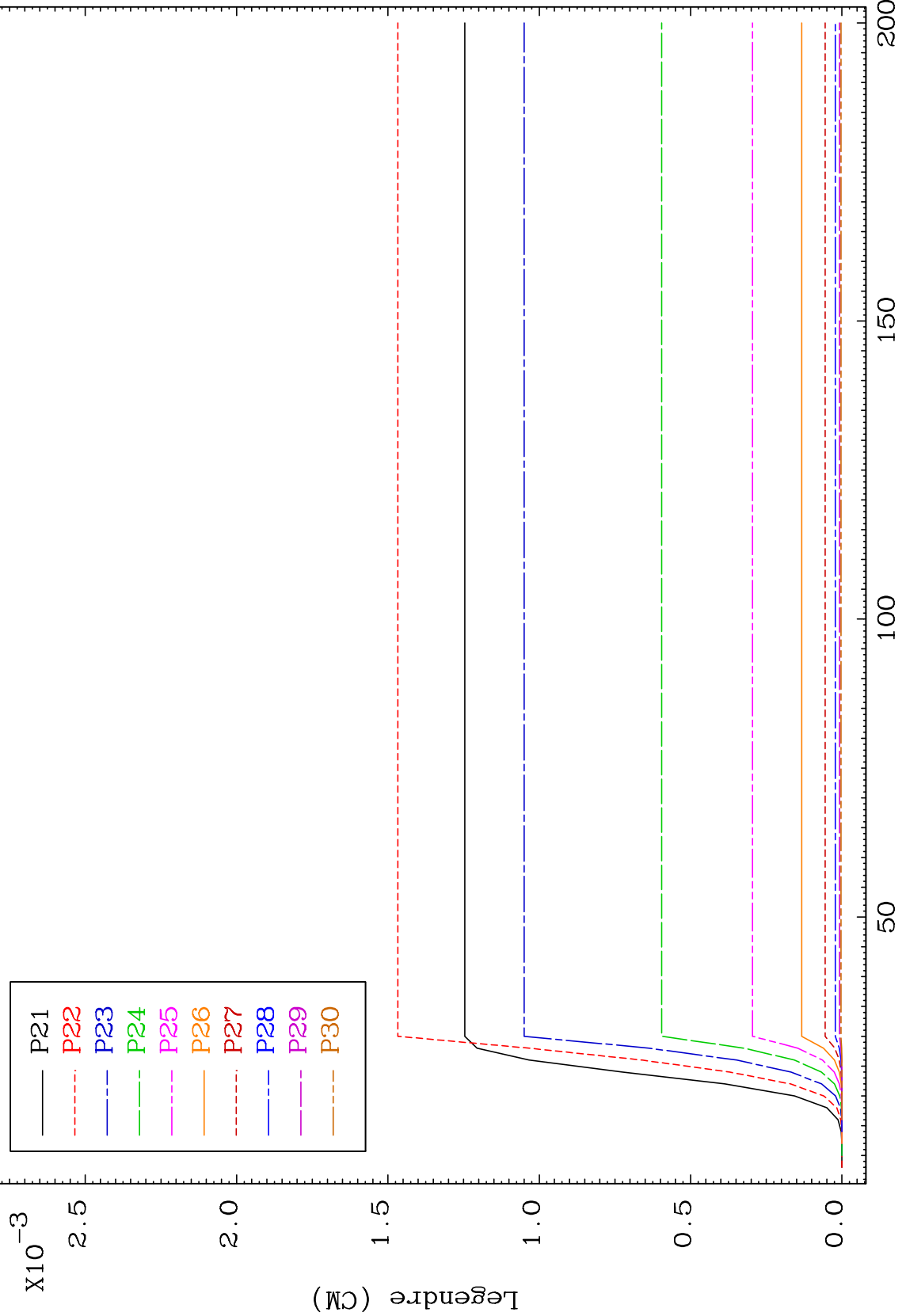
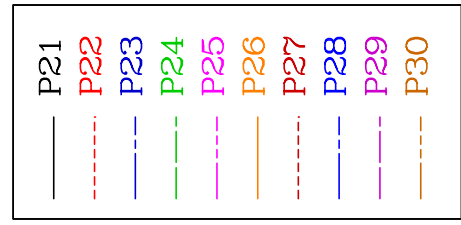
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

82-Pb-197



123

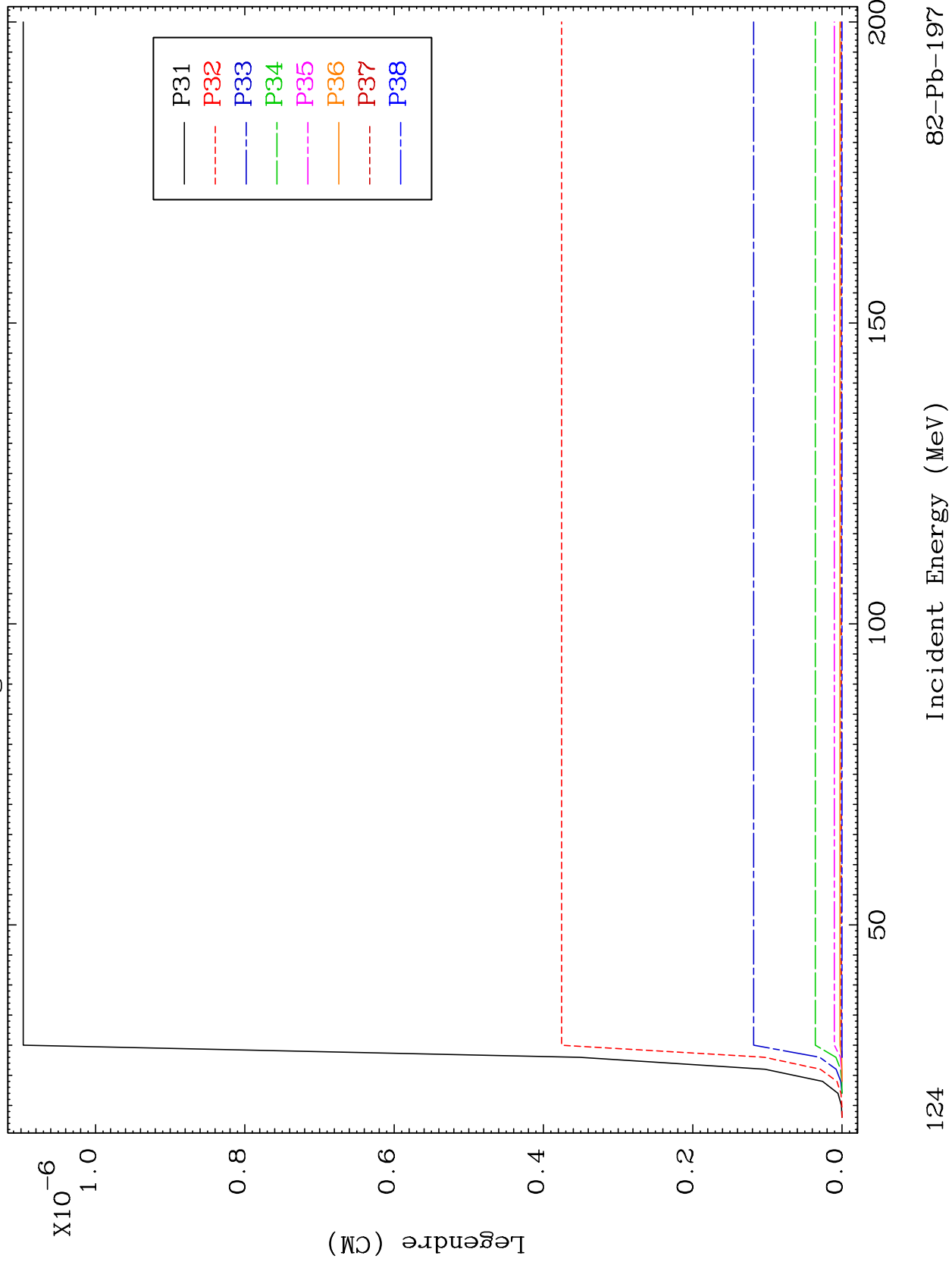
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

82-Pb-197



124

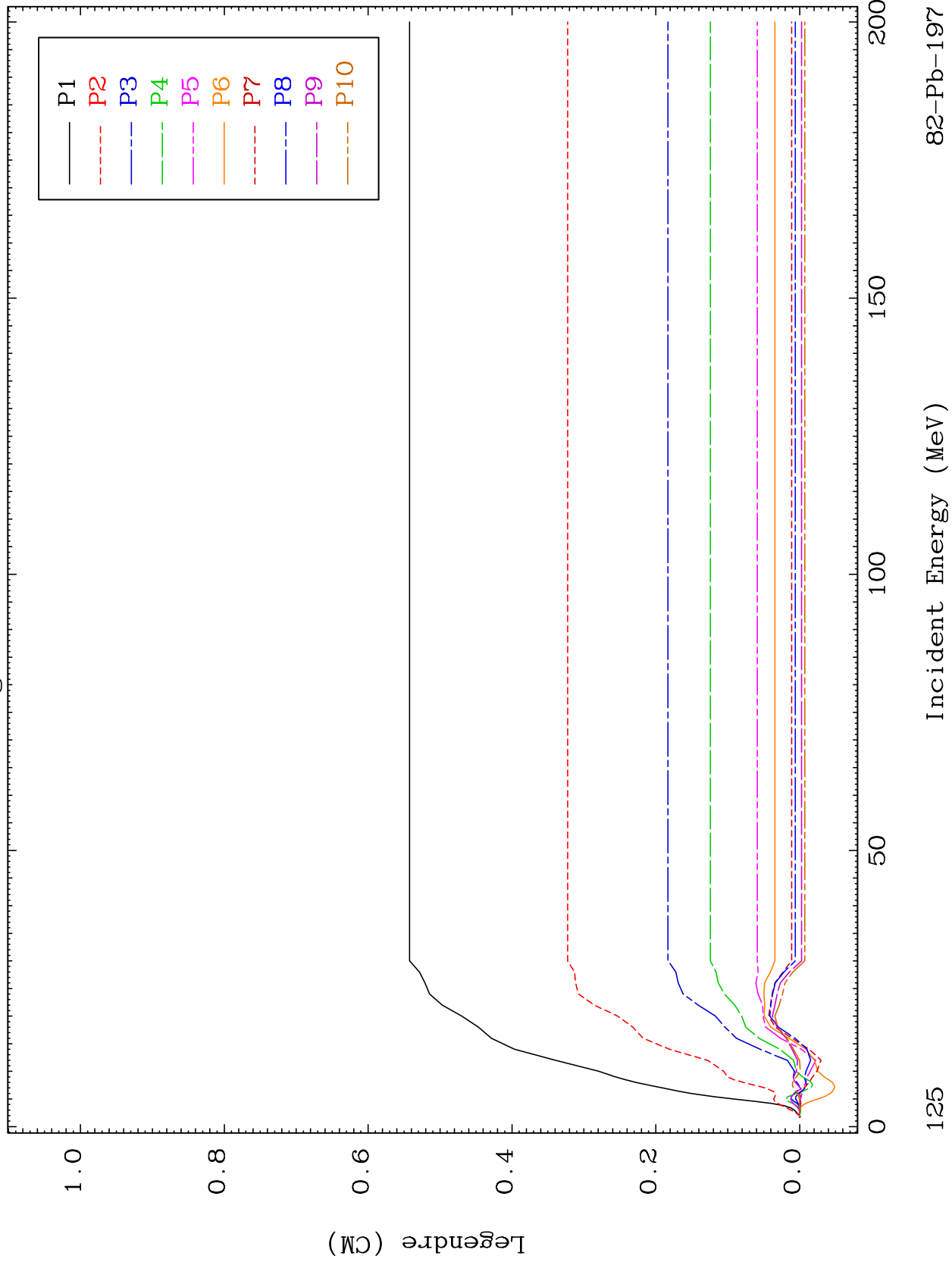
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

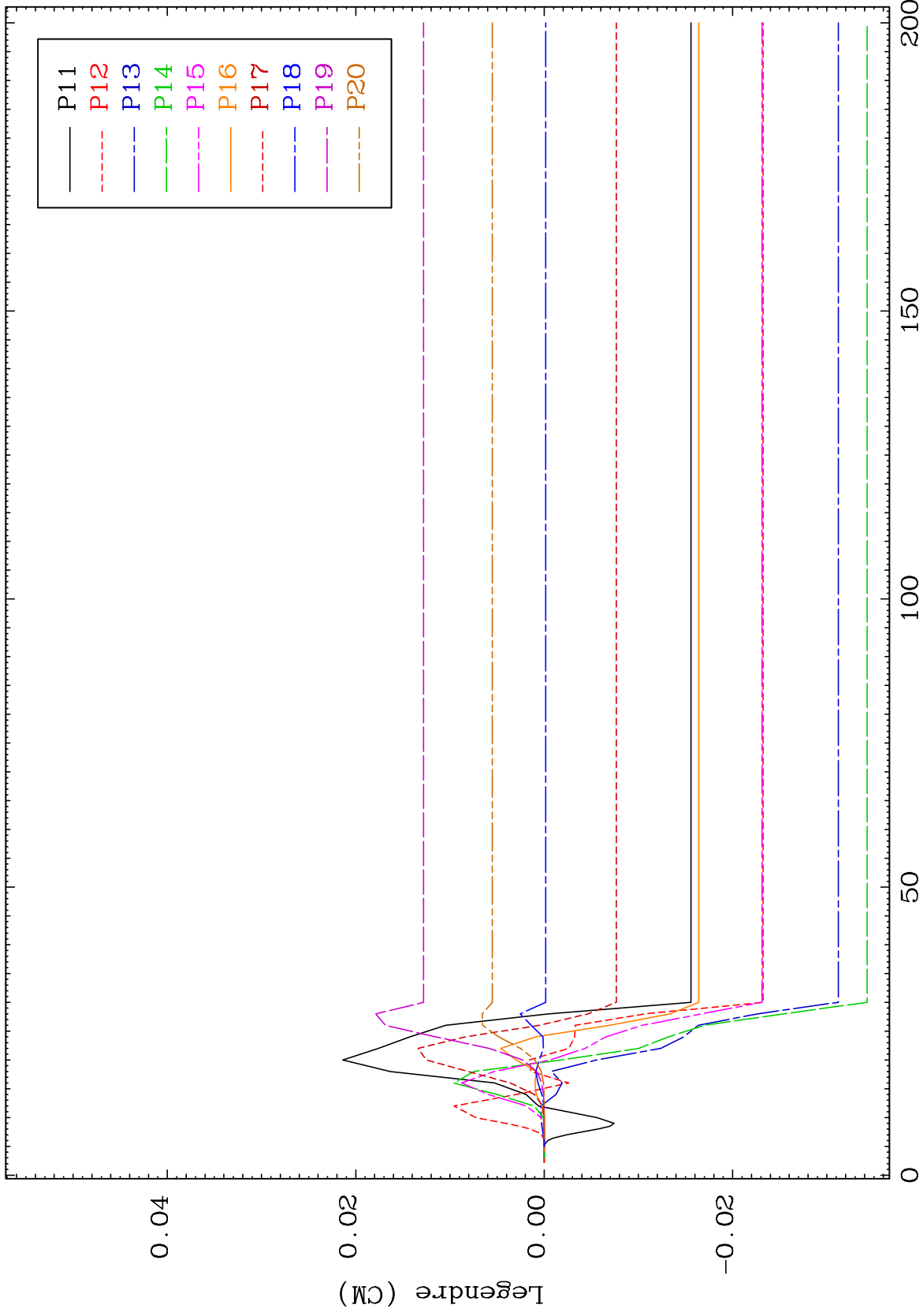
82-Pb-197



MAT 8204

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

82-Pb-197



126

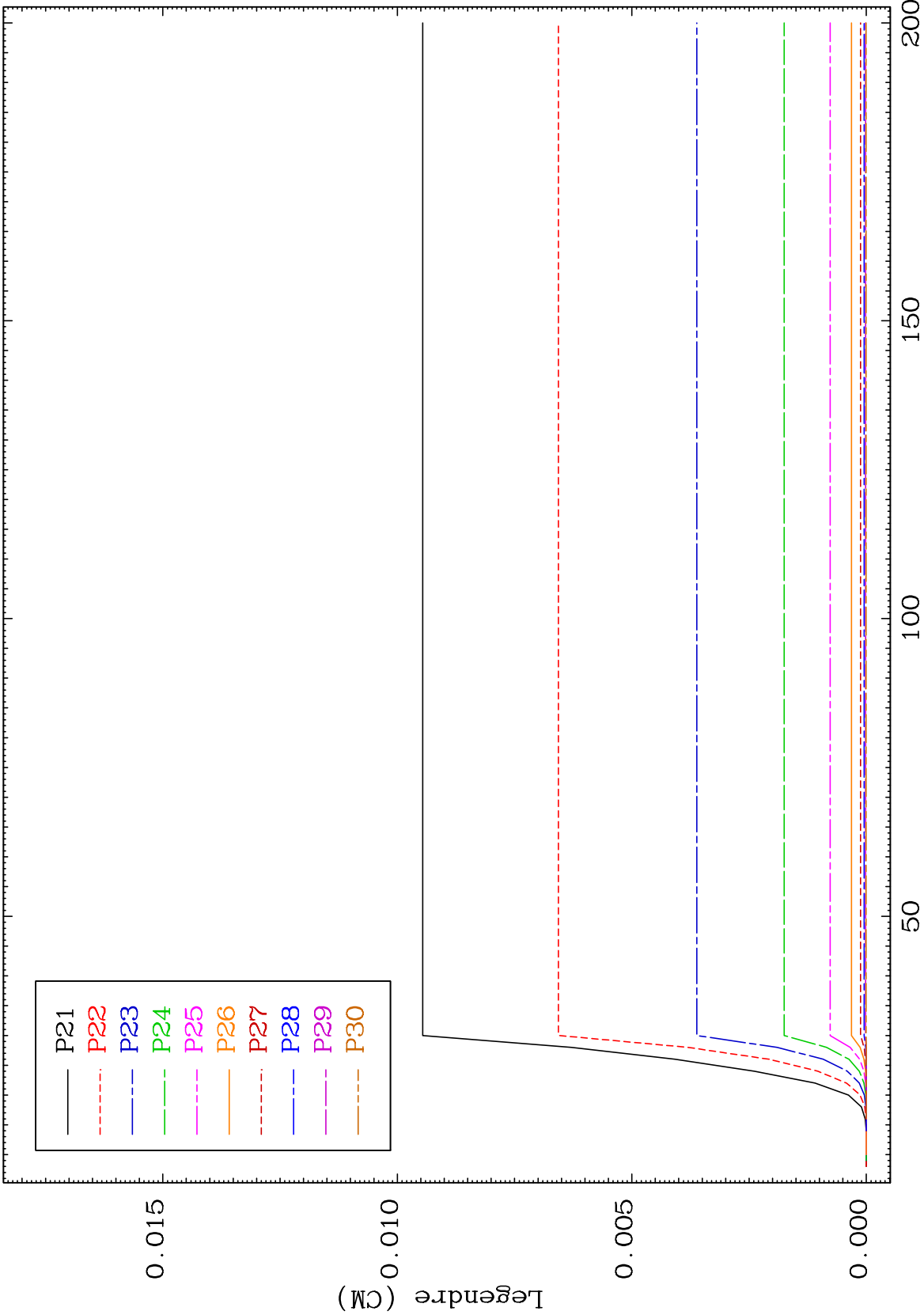
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

82-Pb-197



127

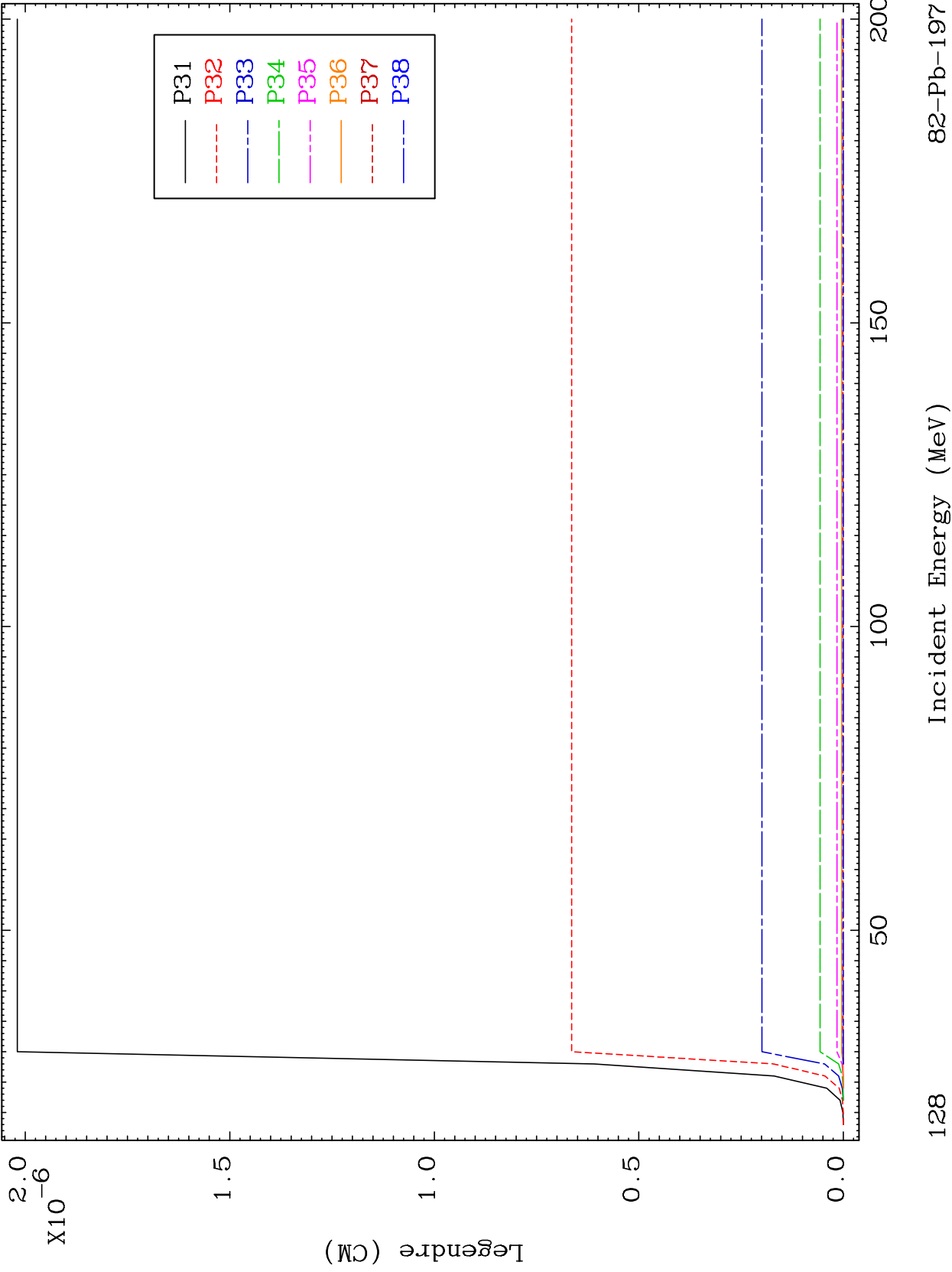
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

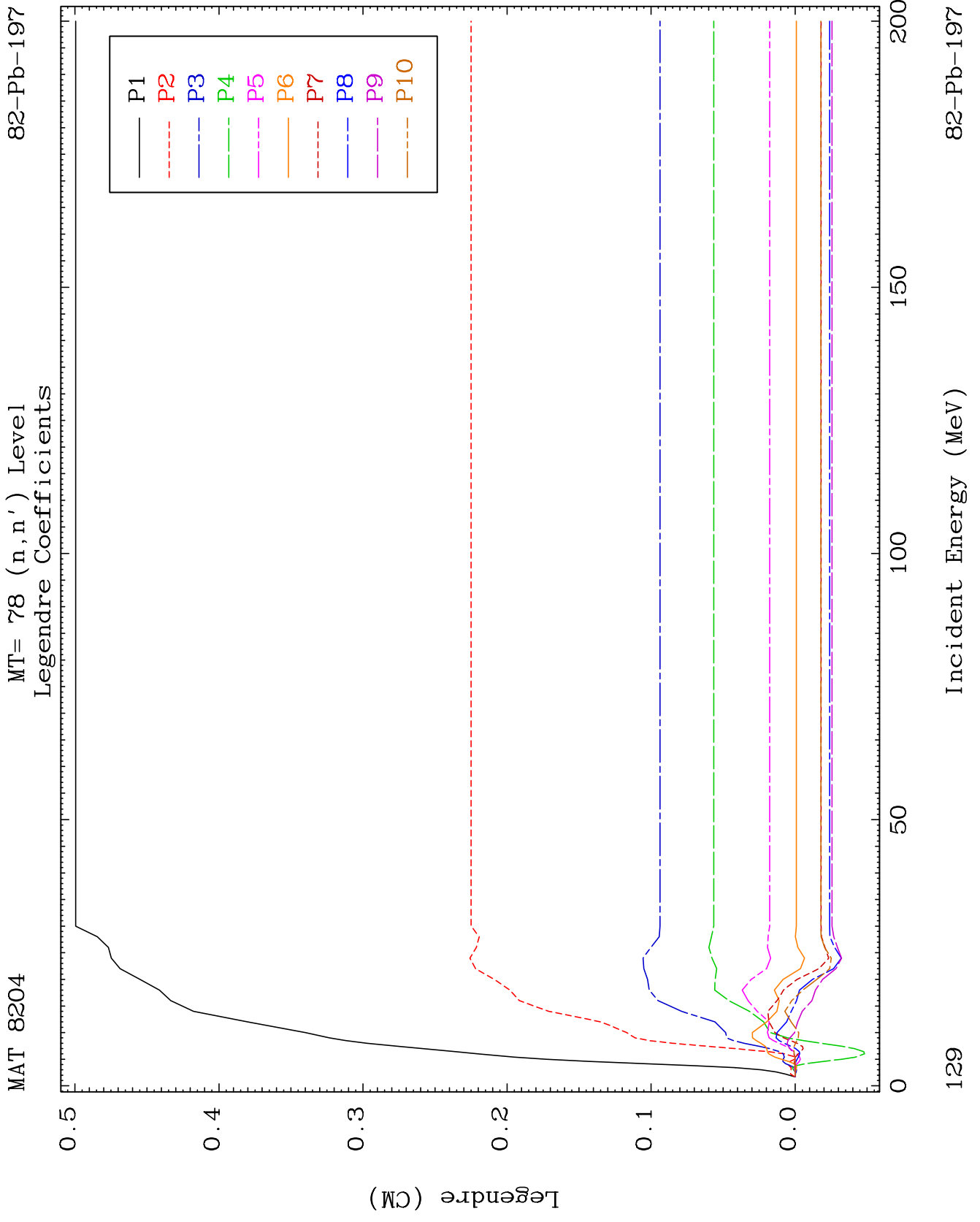
82-Pb-197



128

Incident Energy (MeV)

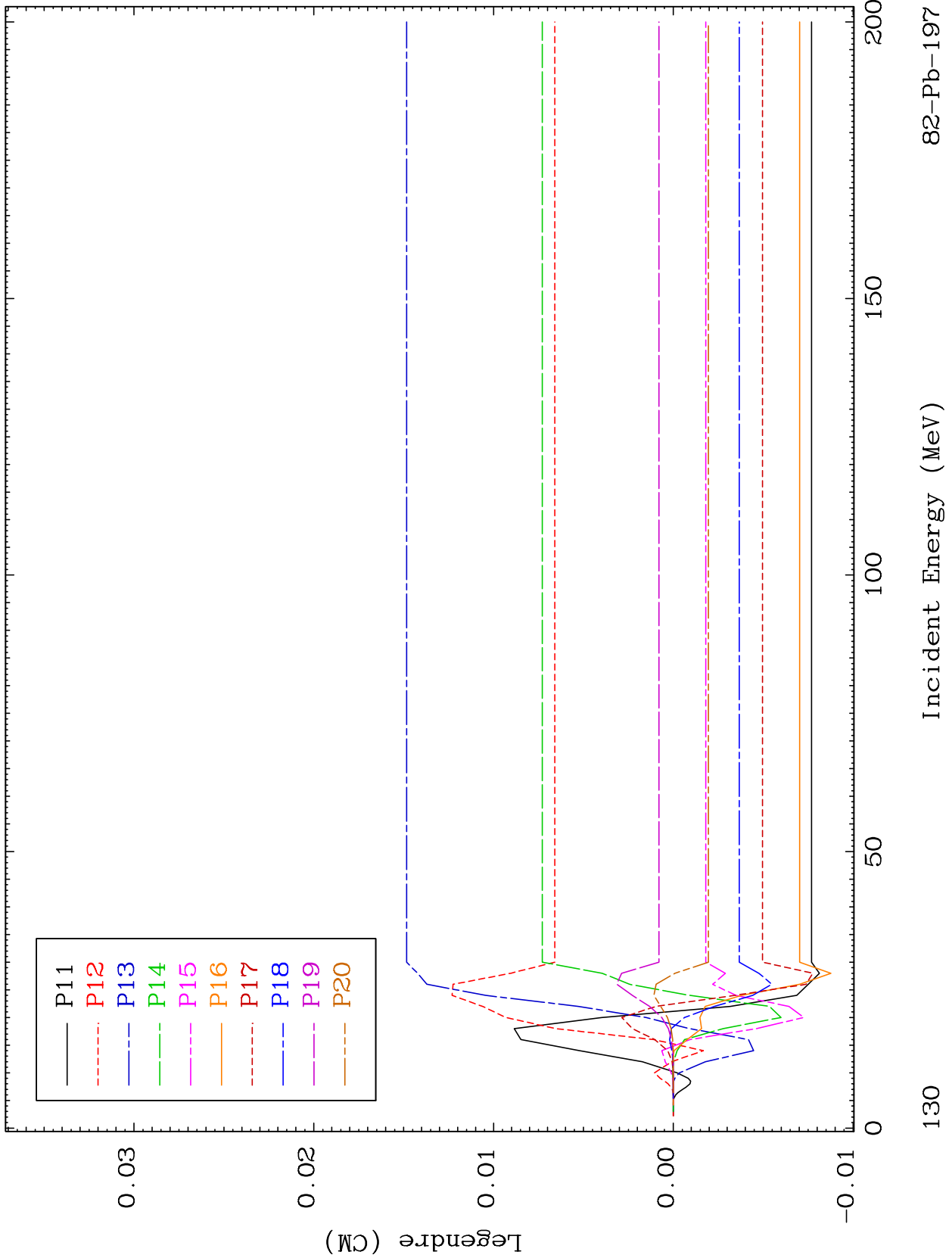
82-Pb-197



MAT 8204

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

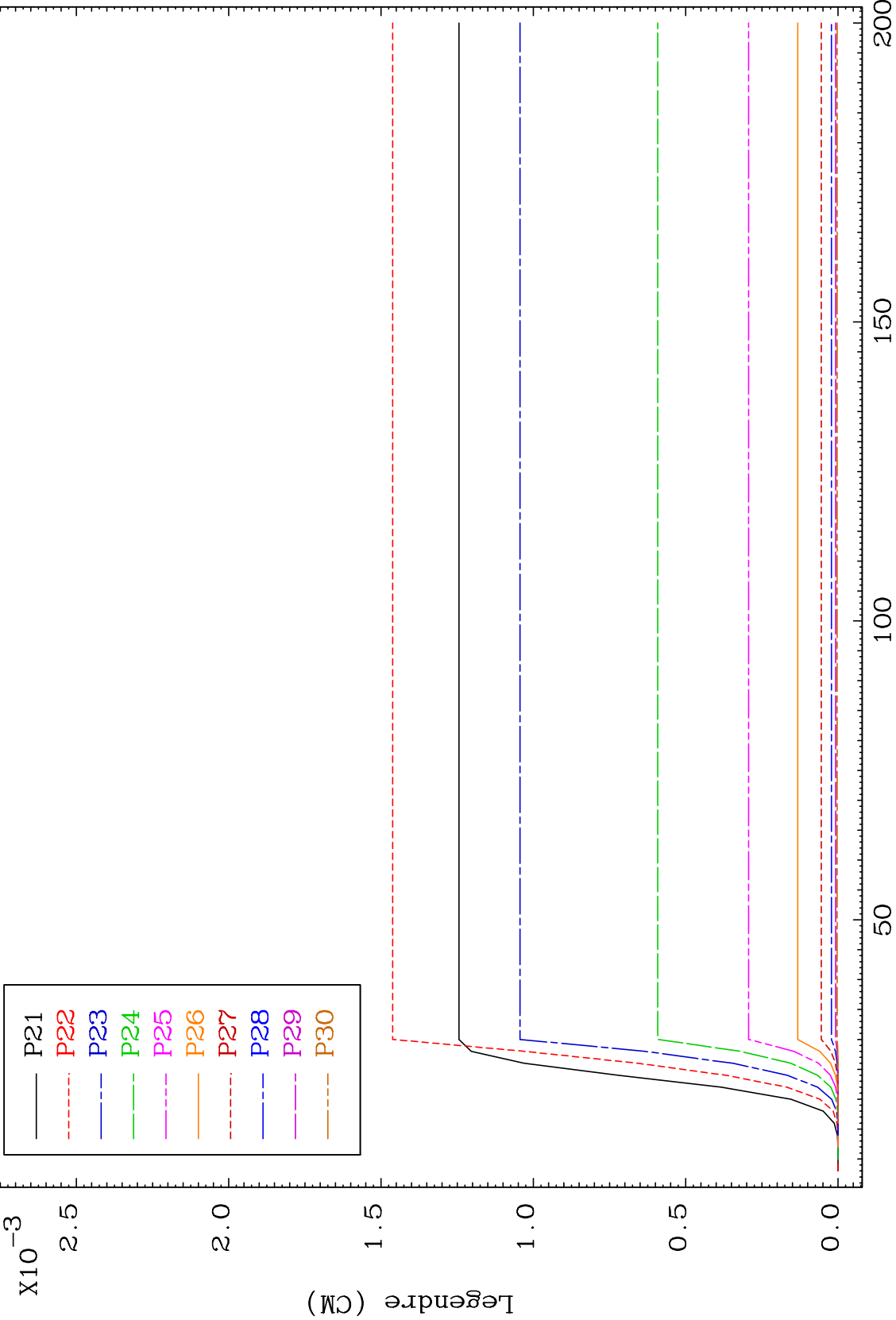
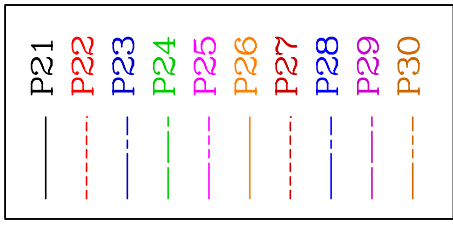
82-Pb-197



MAT 8204

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

82-Pb-197



131

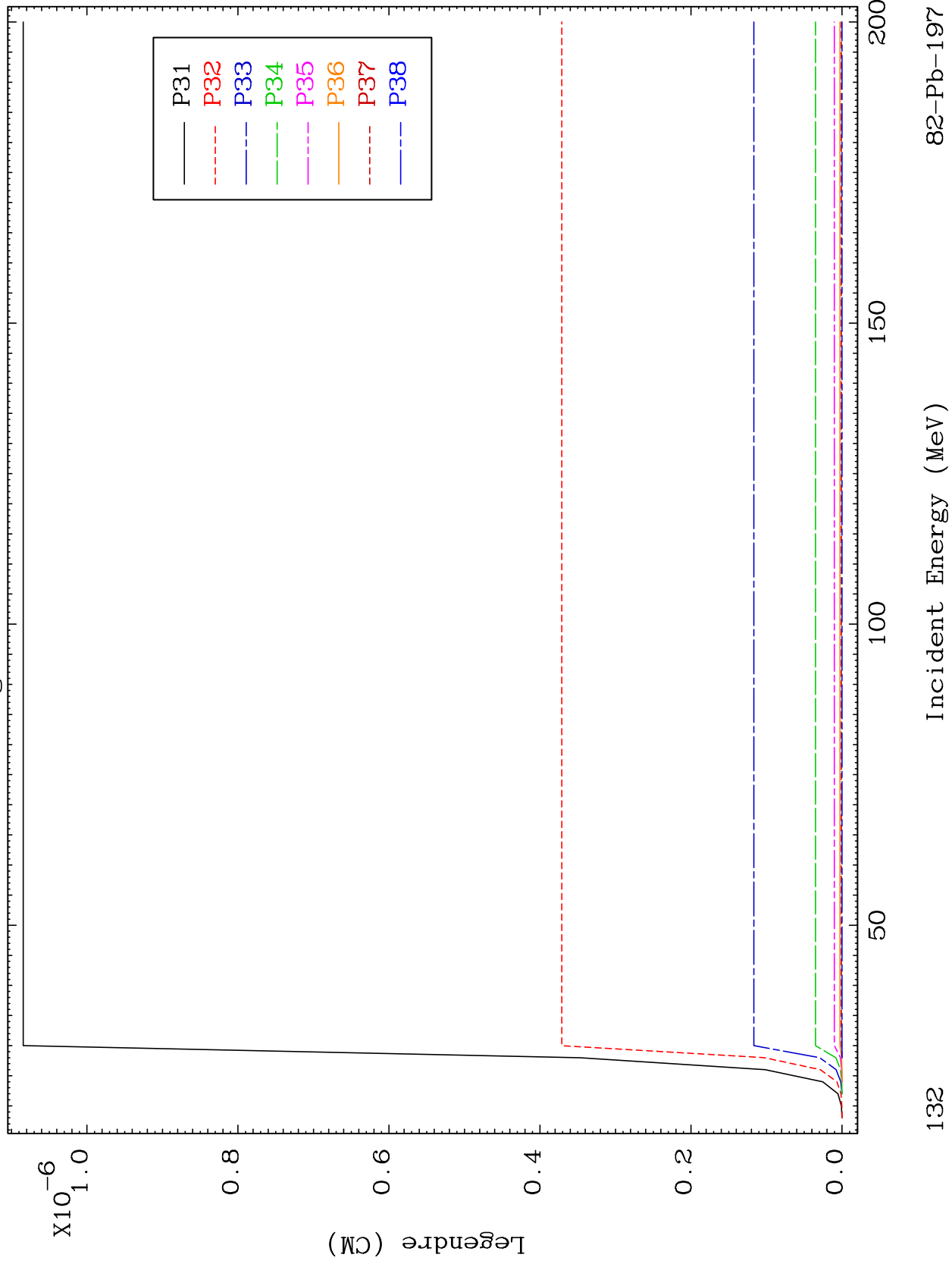
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

82-Pb-197

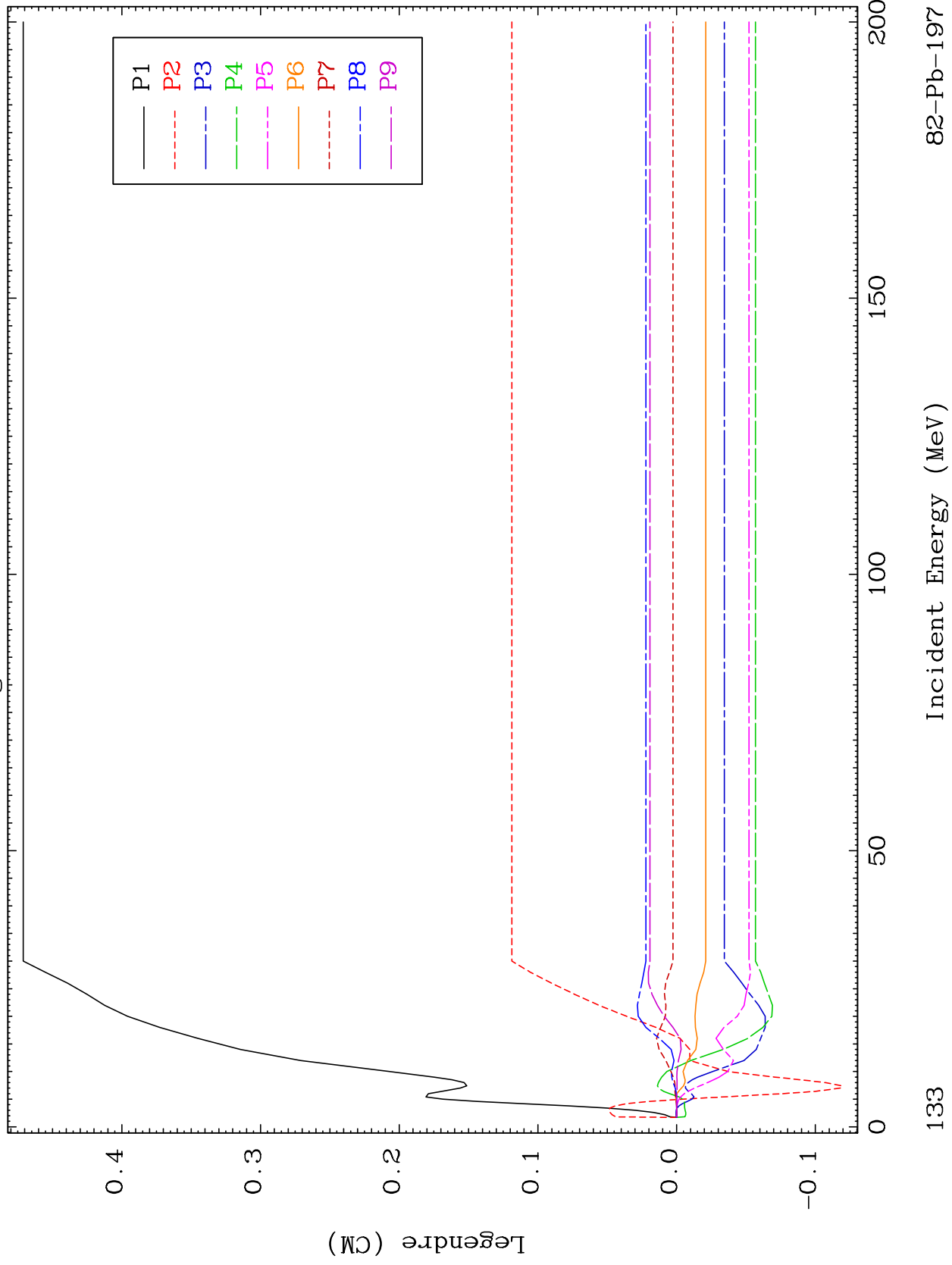


132

MAT 8204

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

82-Pb-197



133

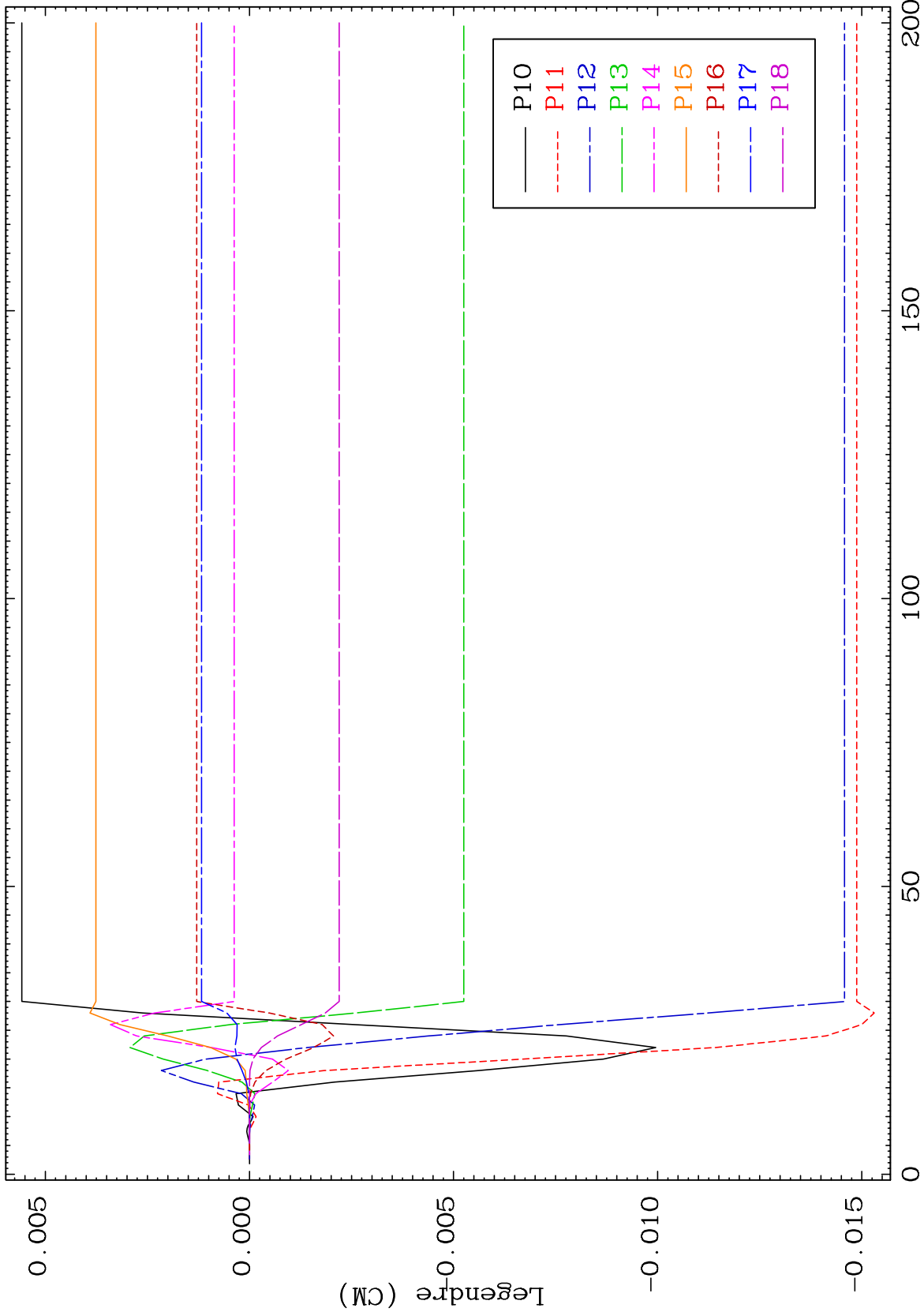
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

82-Pb-197



134

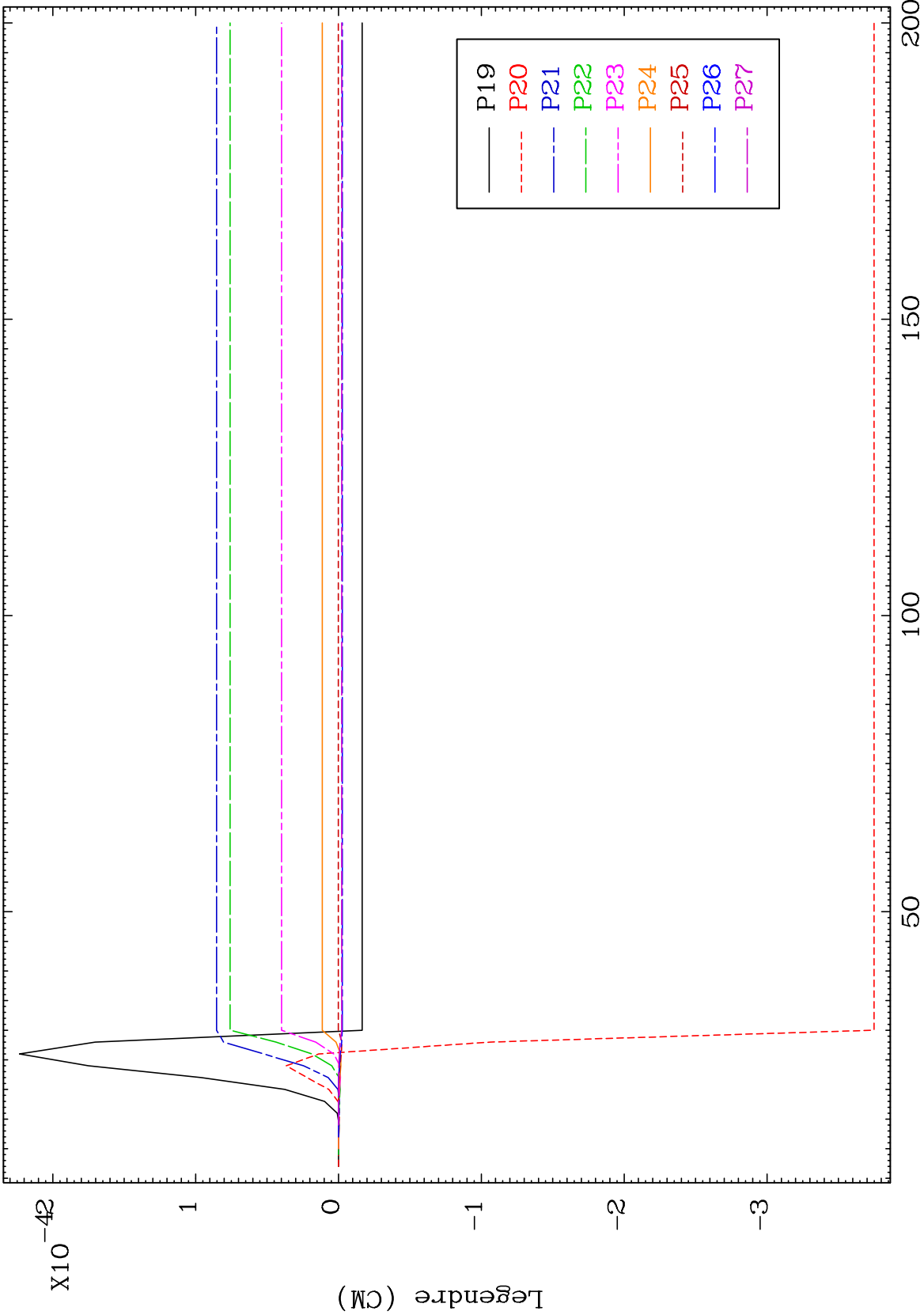
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

82-Pb-197



135

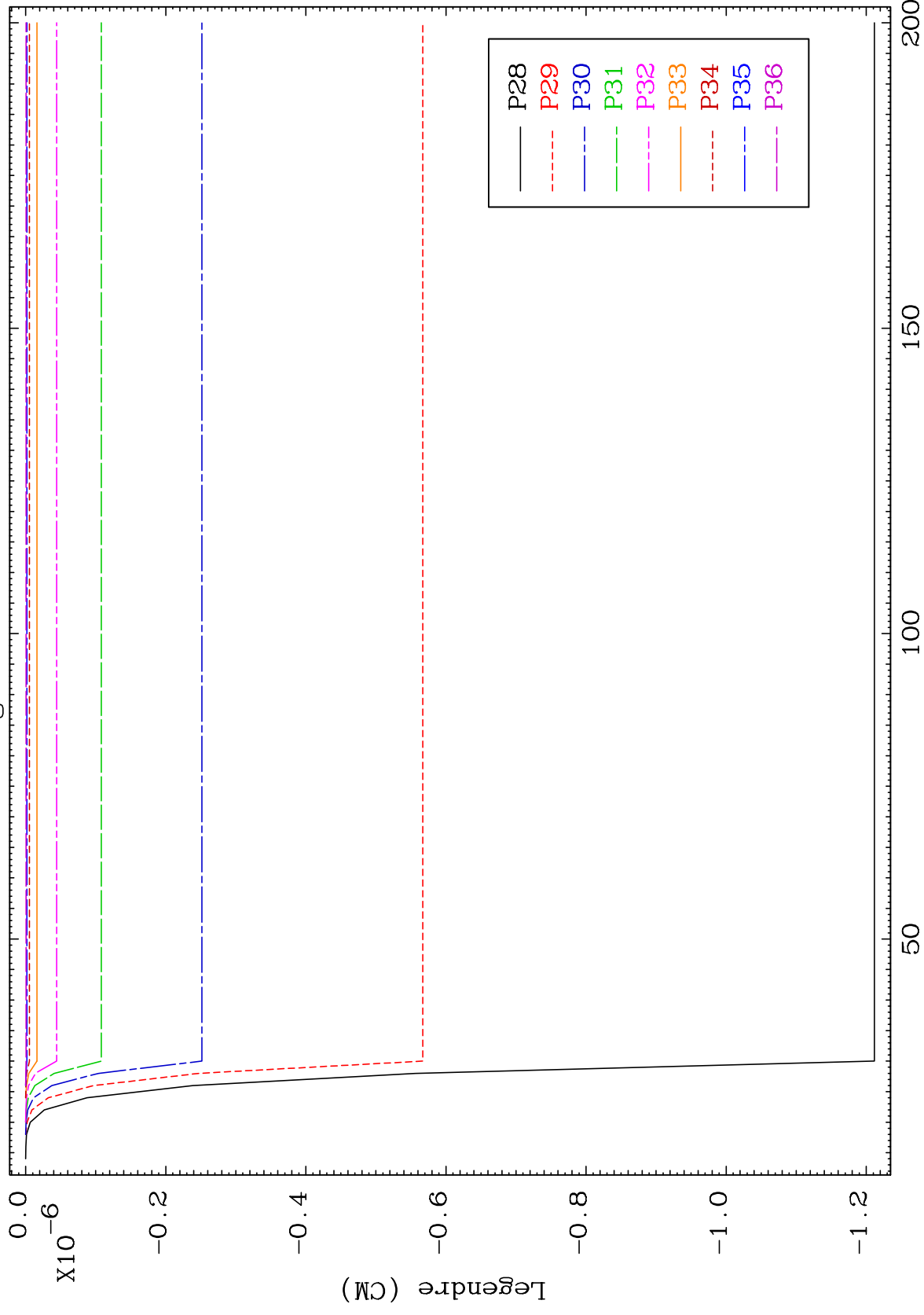
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

82-Pb-197



136

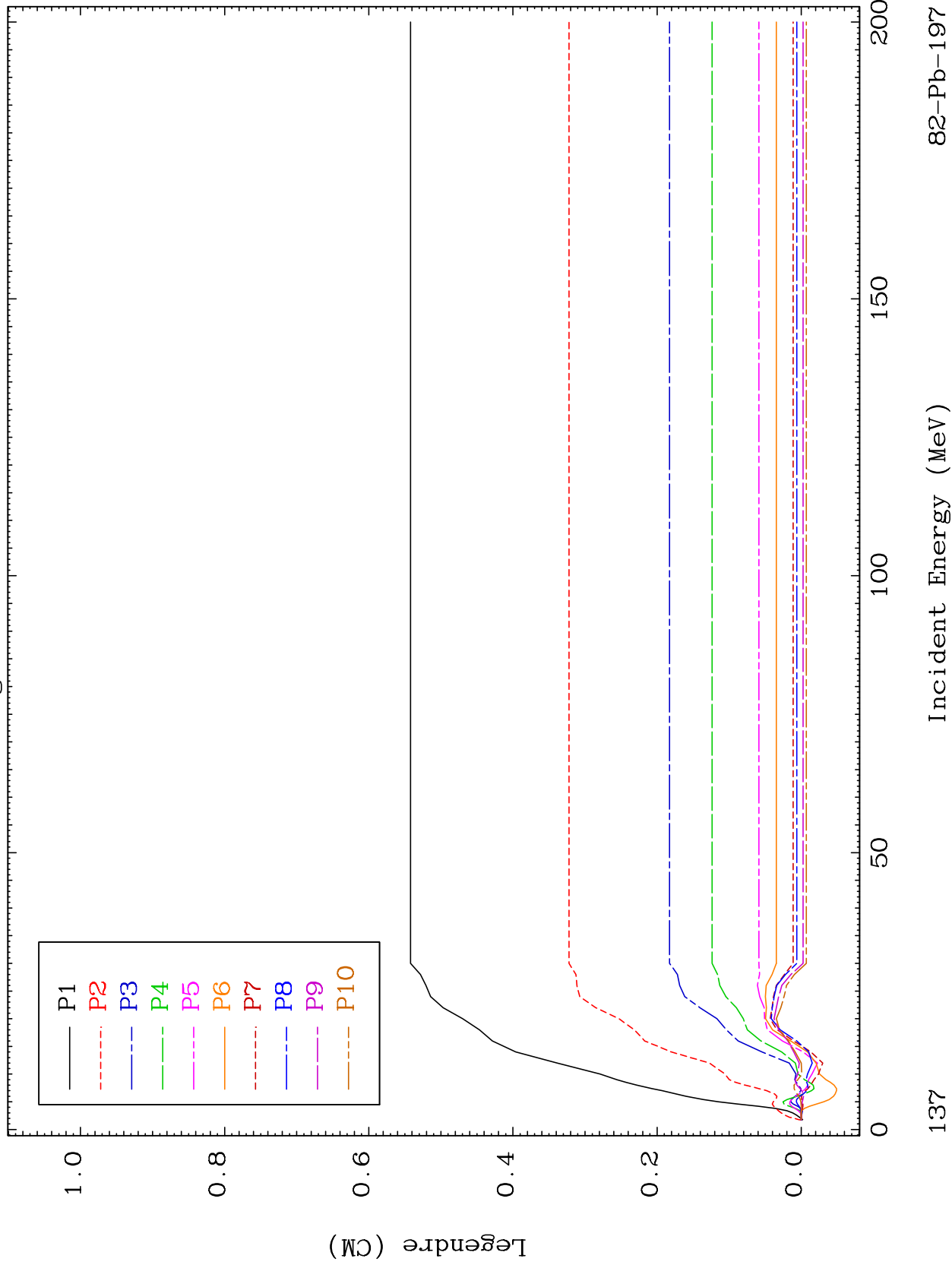
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

82-Pb-197



137

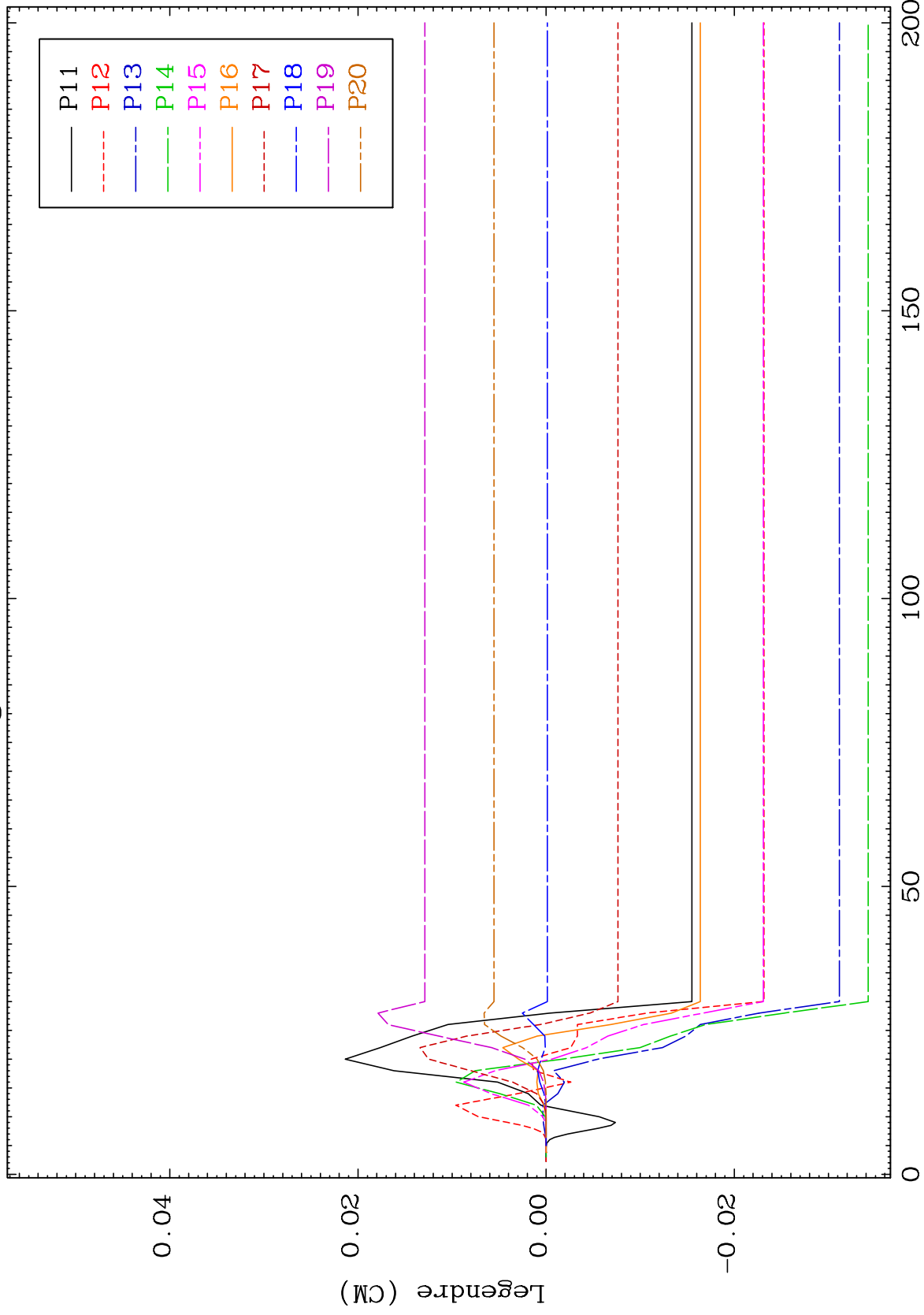
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

82-Pb-197



138

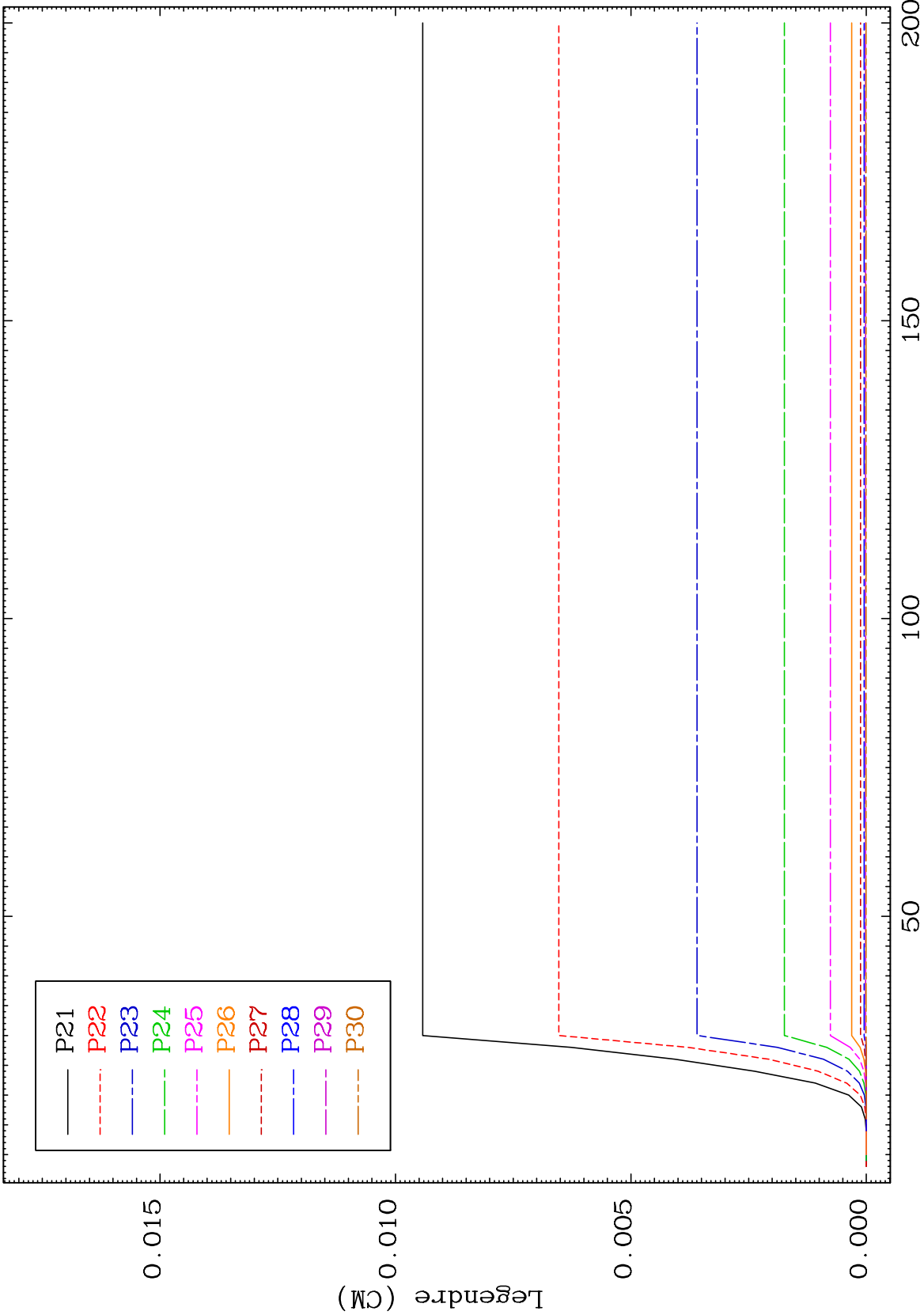
Incident Energy (MeV)

82-Pb-197

MAT 8204

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

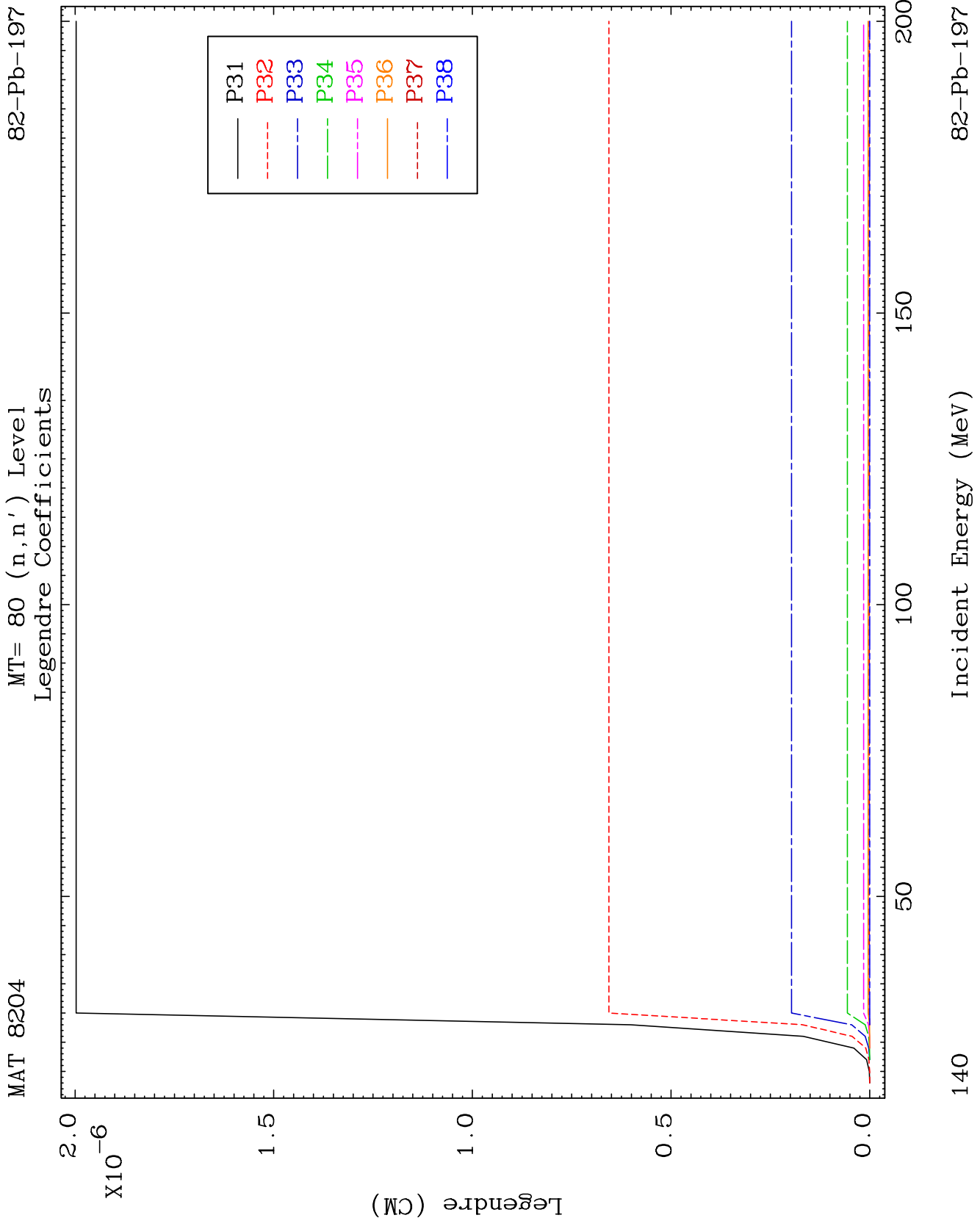
82-Pb-197



139

Incident Energy (MeV)

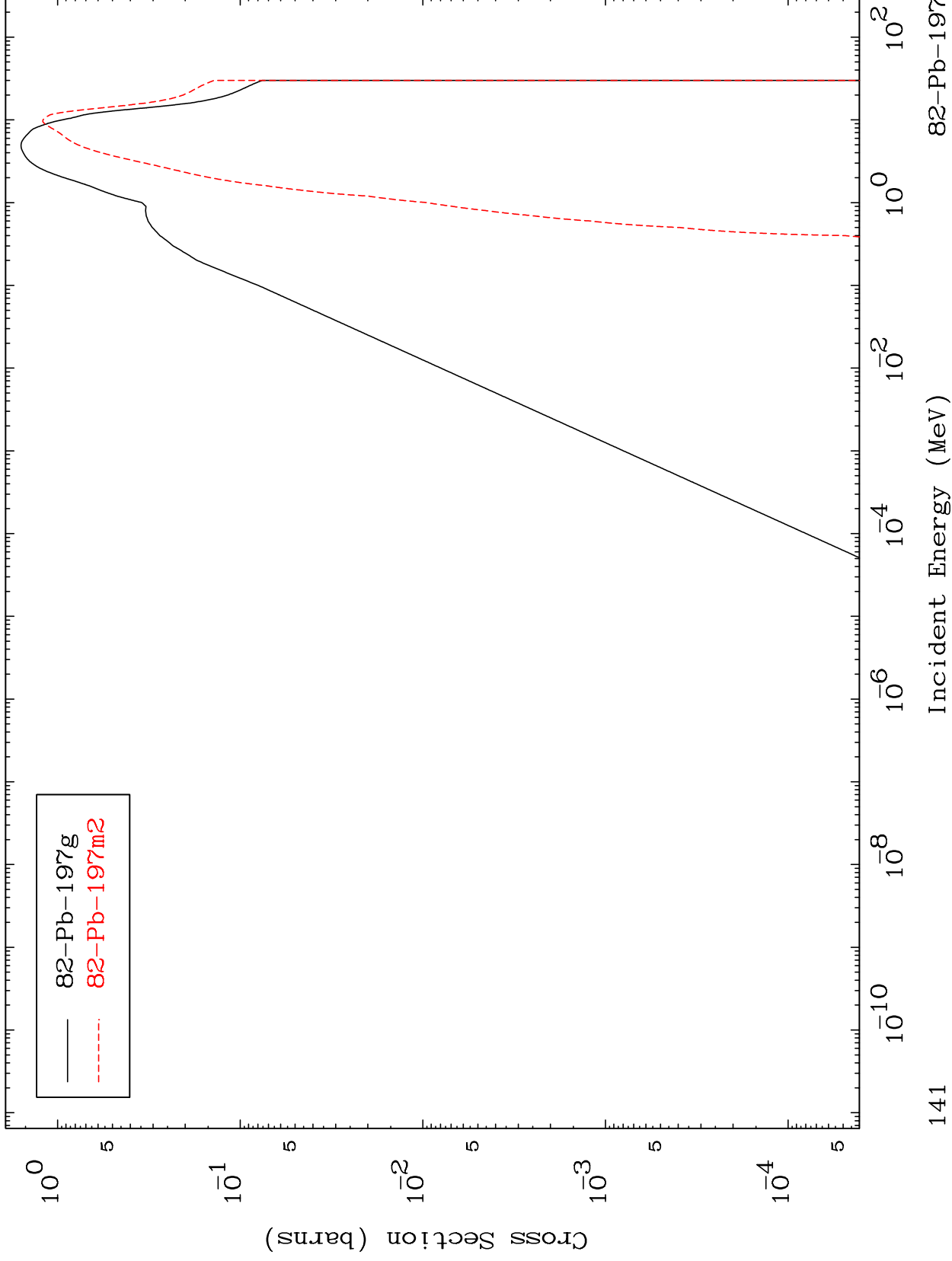
82-Pb-197



MAT 8204

Inelastic  
Radionuclide Production Cross Section

82-Pb-197

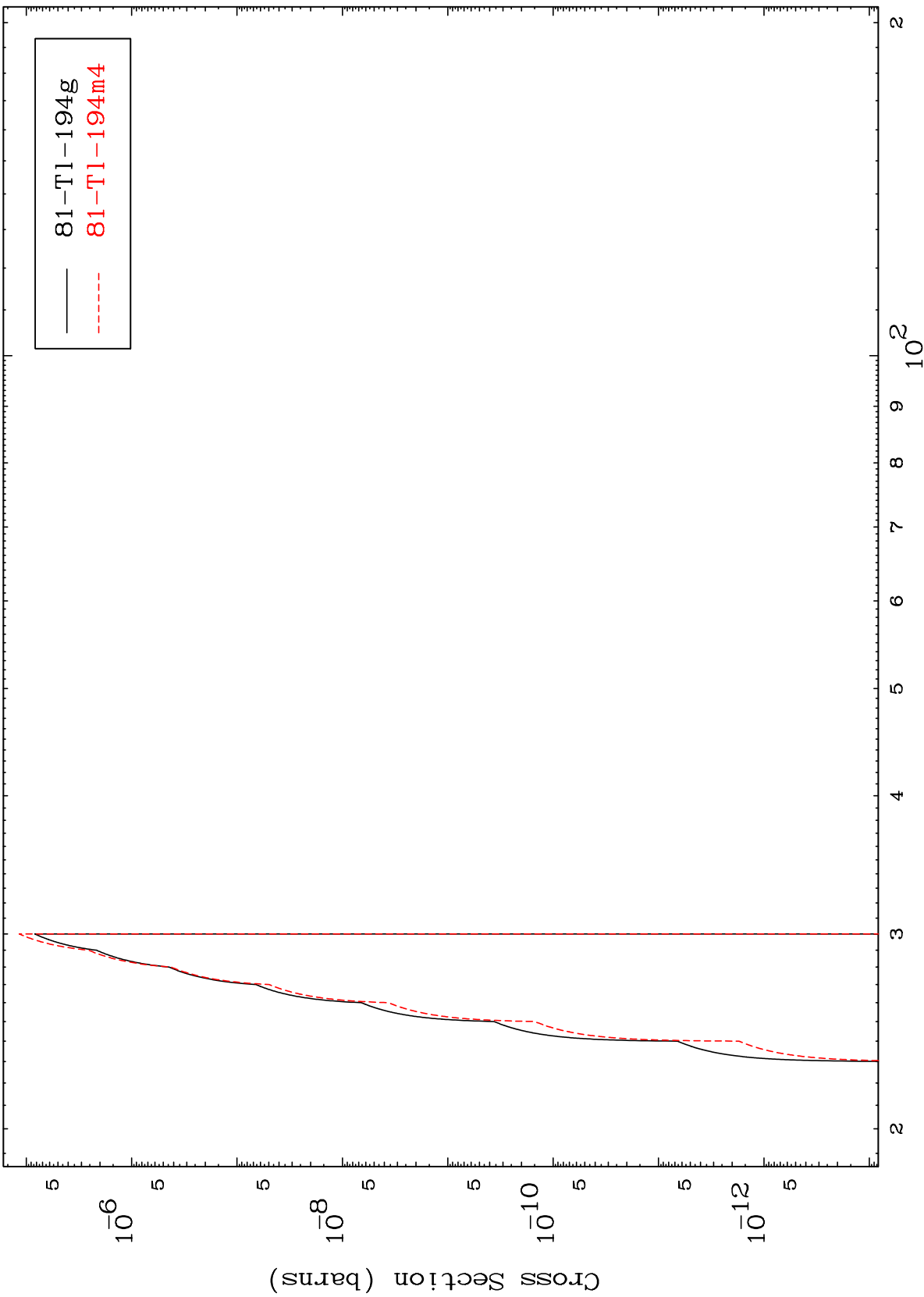


MAT 8204

(n,2n) d

82-Pb-197

Radionuclide Production Cross Section



142

Incident Energy (MeV)

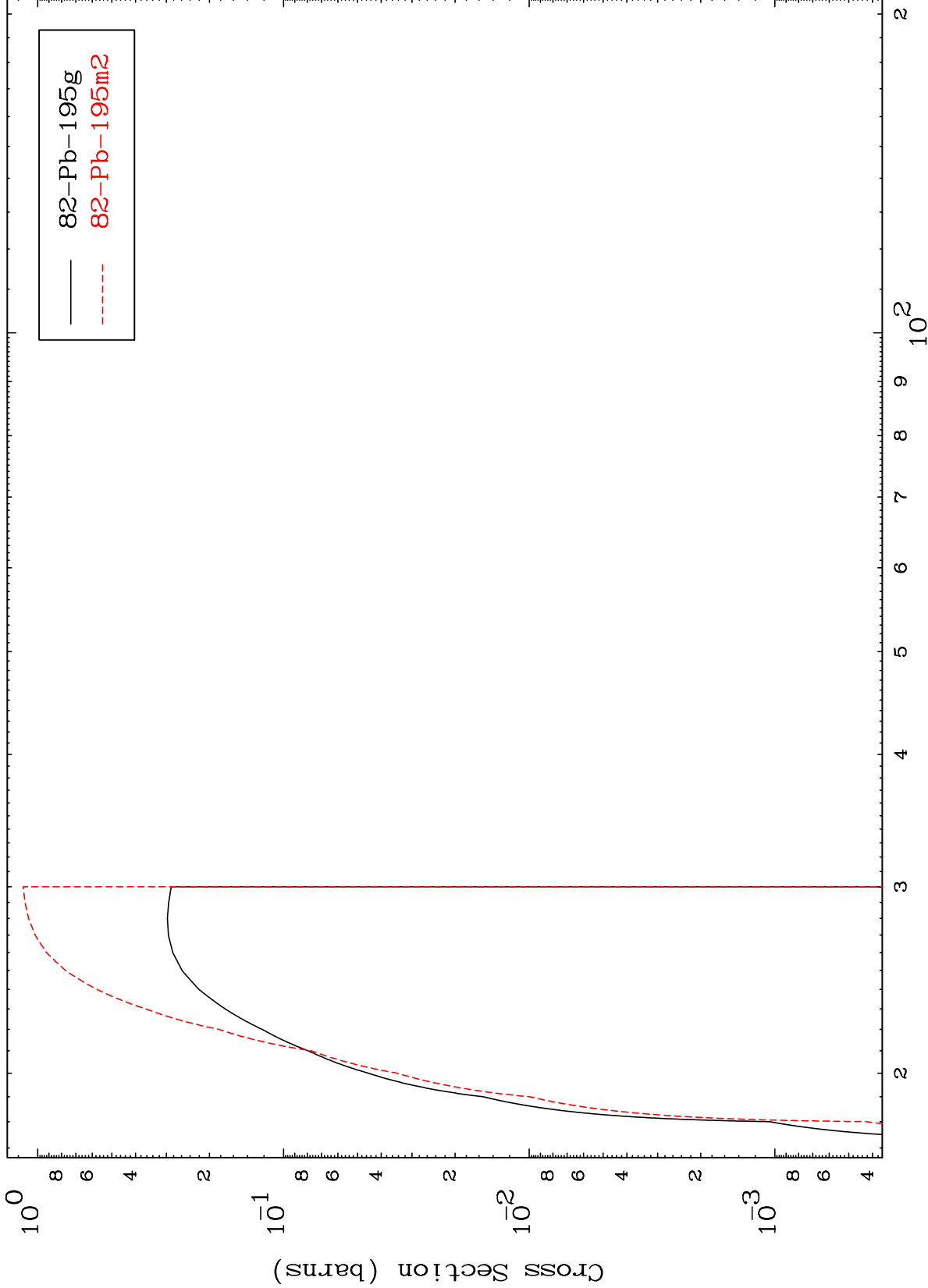
82-Pb-197

MAT 8204

(n,3n)

82-Pb-197

Radionuclide Production Cross Section



143

Incident Energy (MeV)

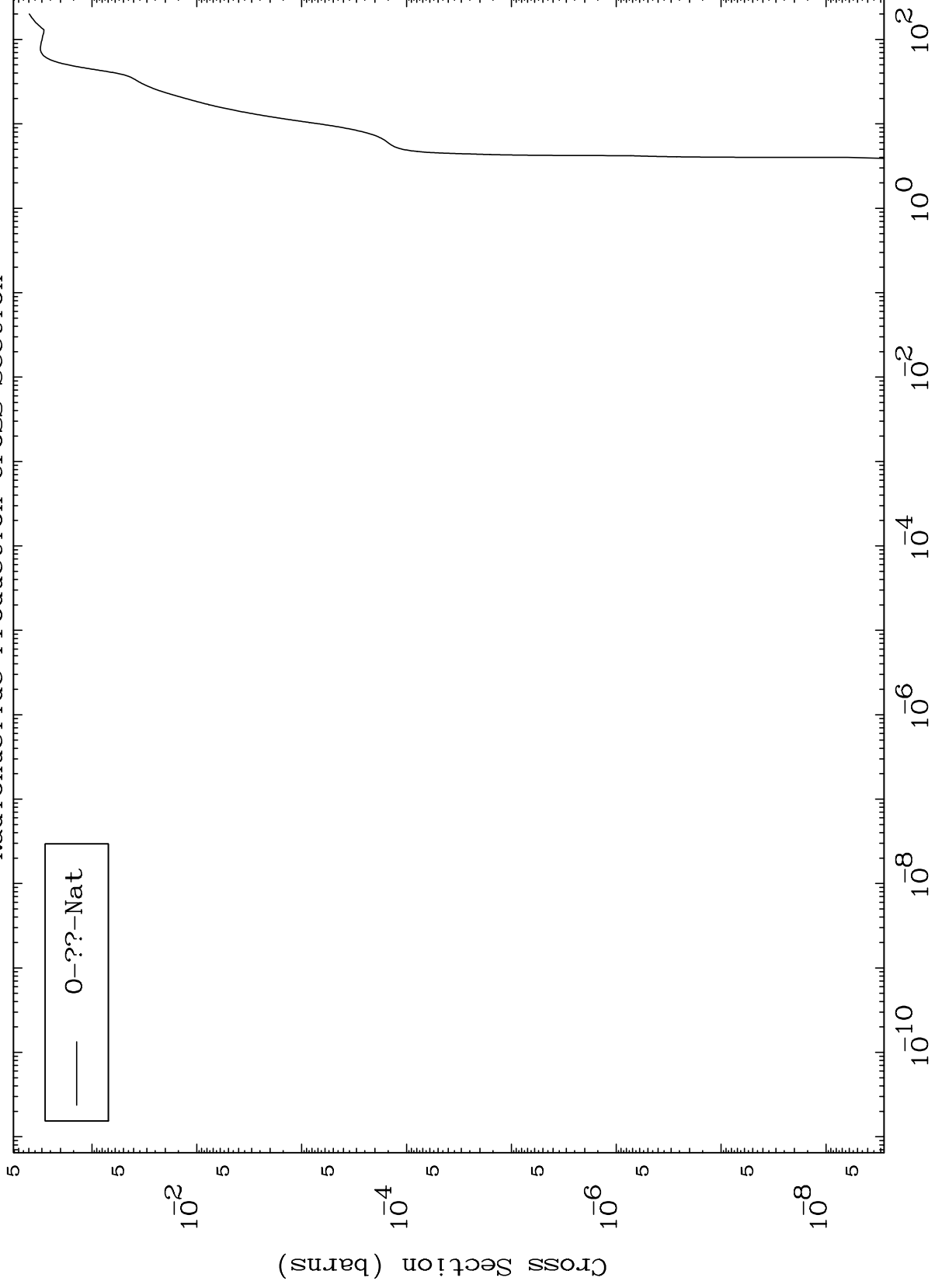
82-Pb-197

MAT 8204

Fission

82-Pb-197

Radionuclide Production Cross Section



144

Incident Energy (MeV)

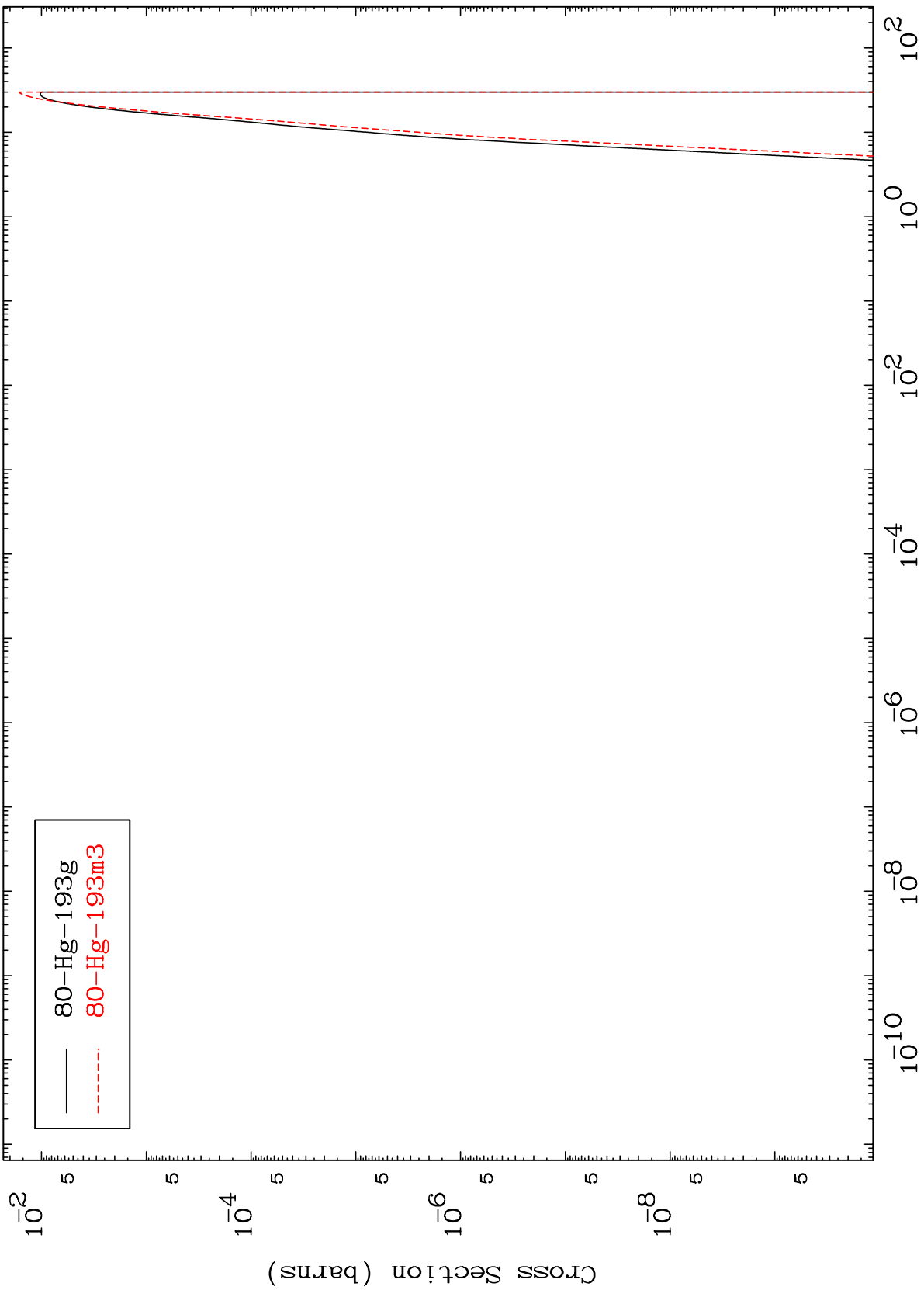
82-Pb-197

MAT 8204

$(n, n') \alpha$

82-Pb-197

Radionuclide Production Cross Section



145

Incident Energy (MeV)

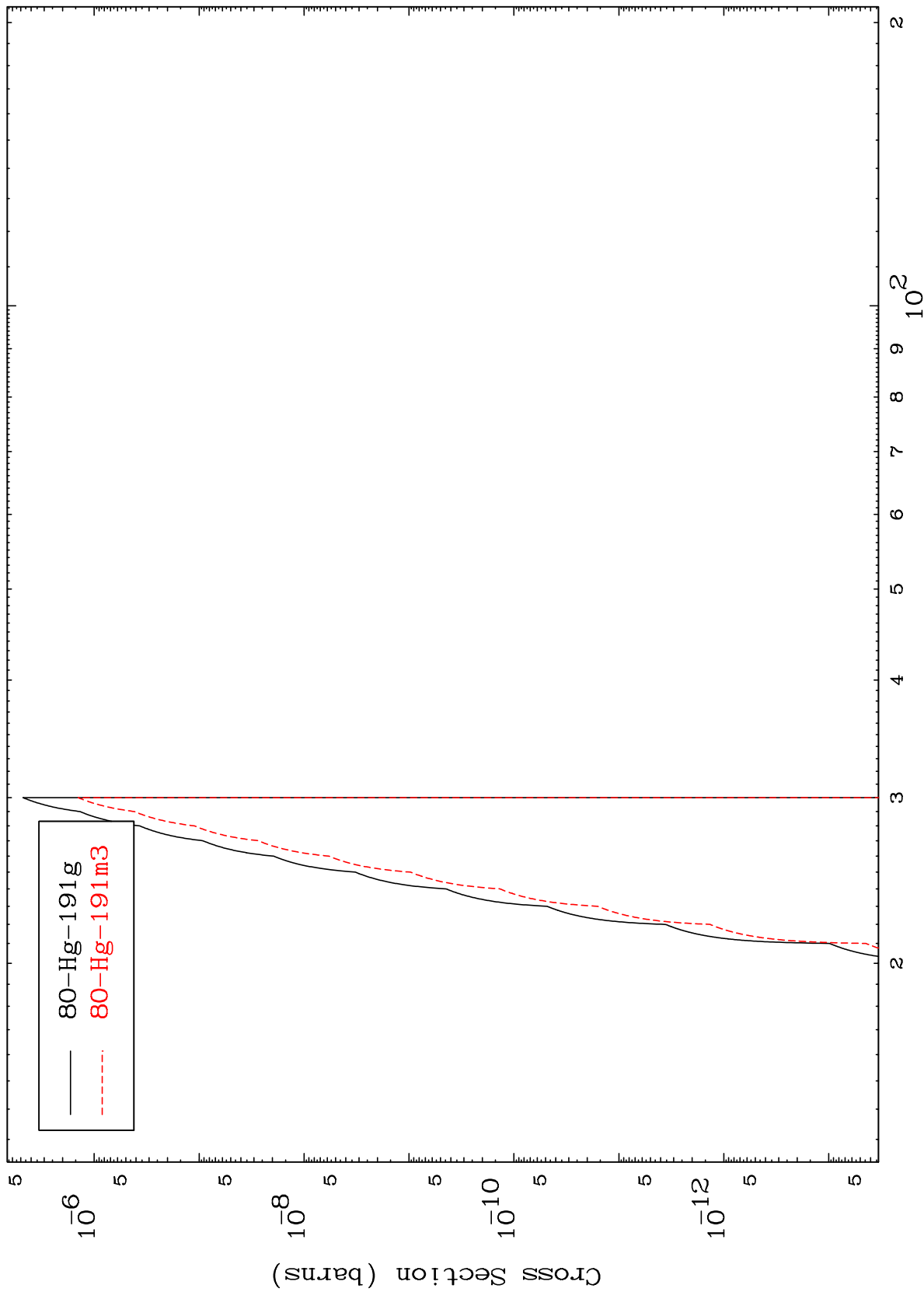
82-Pb-197

MAT 8204

(n,3n)  $\alpha$

82-Pb-197

Radionuclide Production Cross Section



146

Incident Energy (MeV)

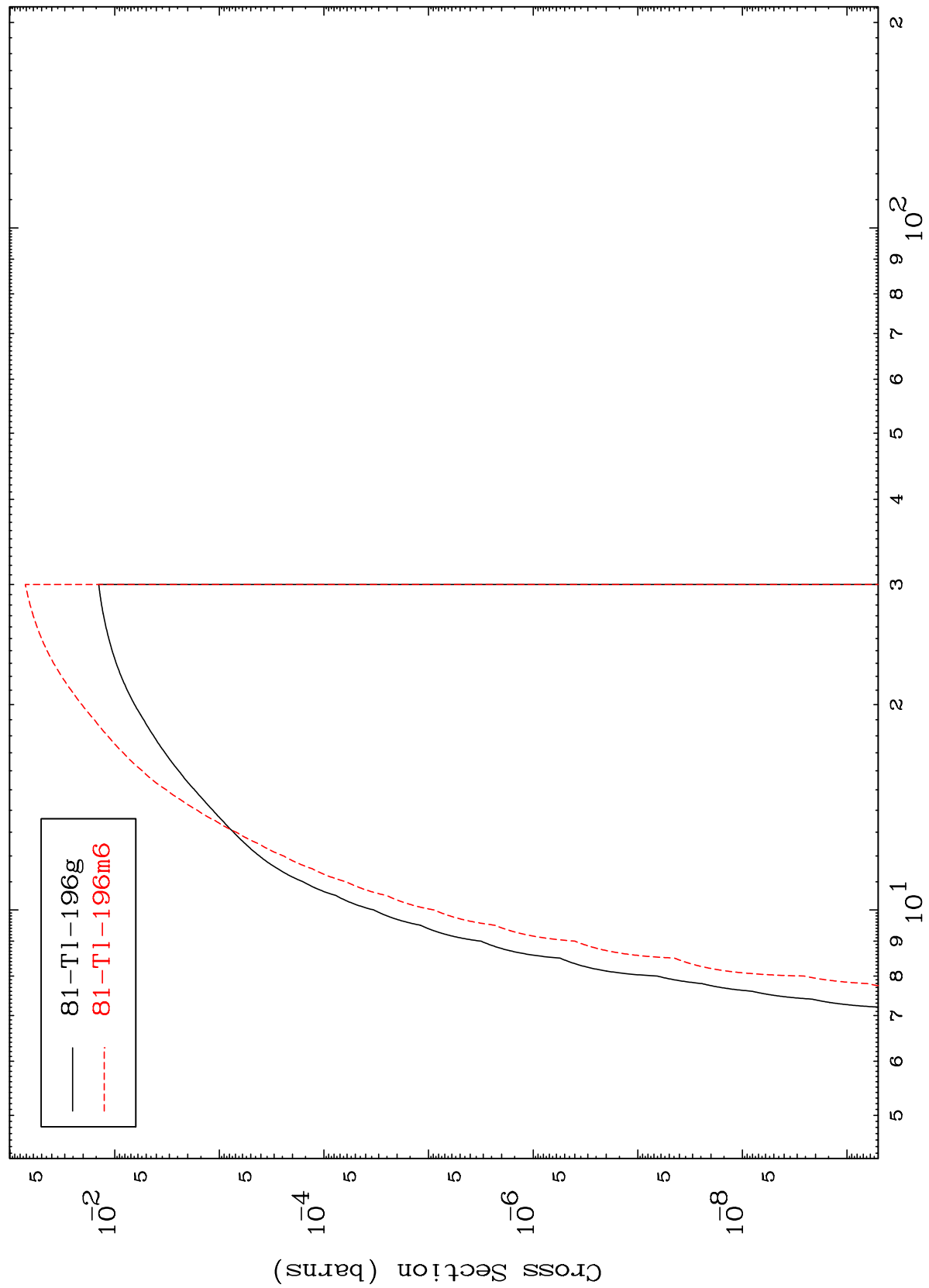
82-Pb-197

MAT 8204

(n,n') p

82-Pb-197

Radionuclide Production Cross Section



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

147

Incident Energy (MeV)

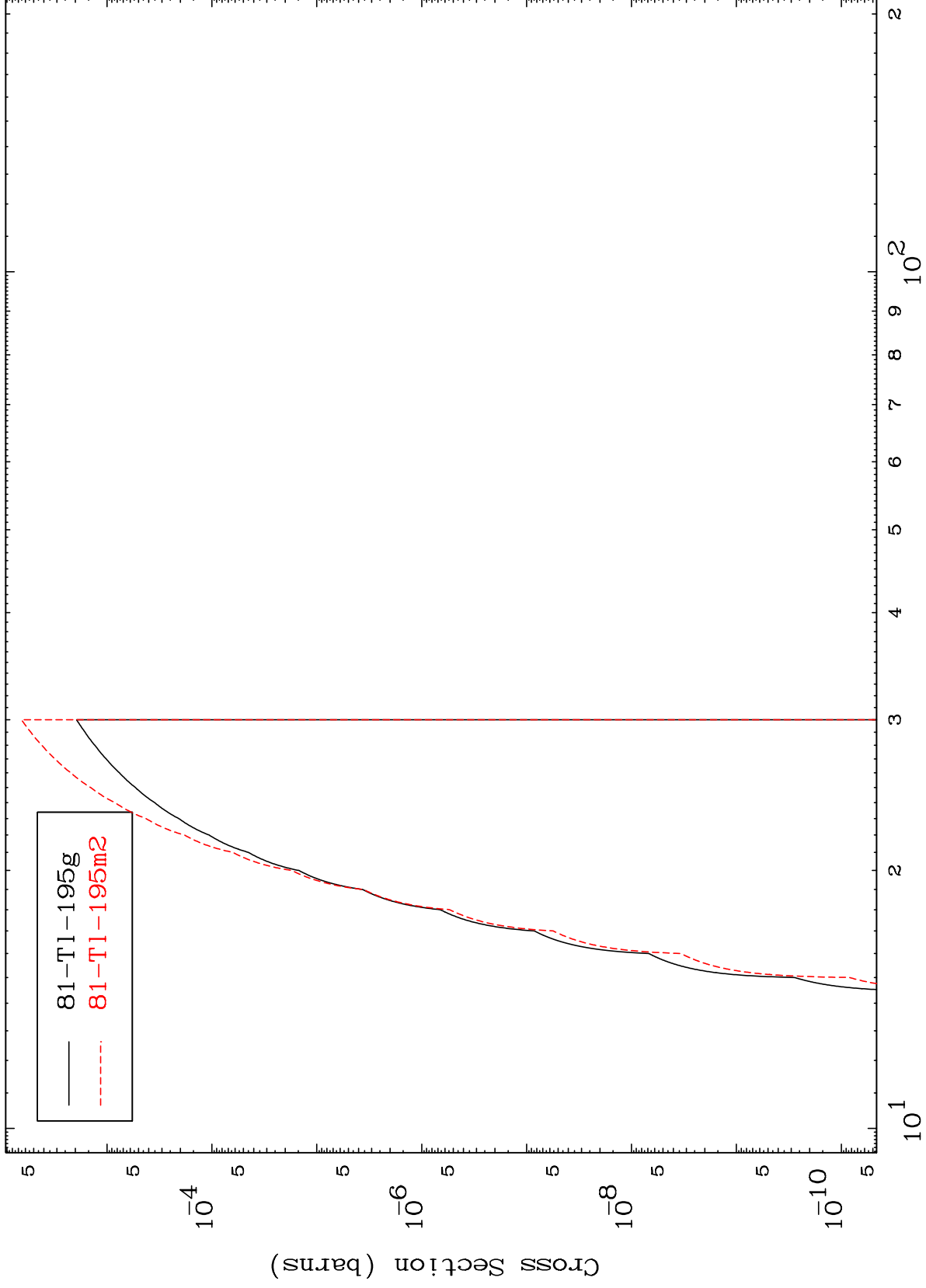
82-Pb-197

MAT 8204

(n,n') d

82-Pb-197

Radionuclide Production Cross Section

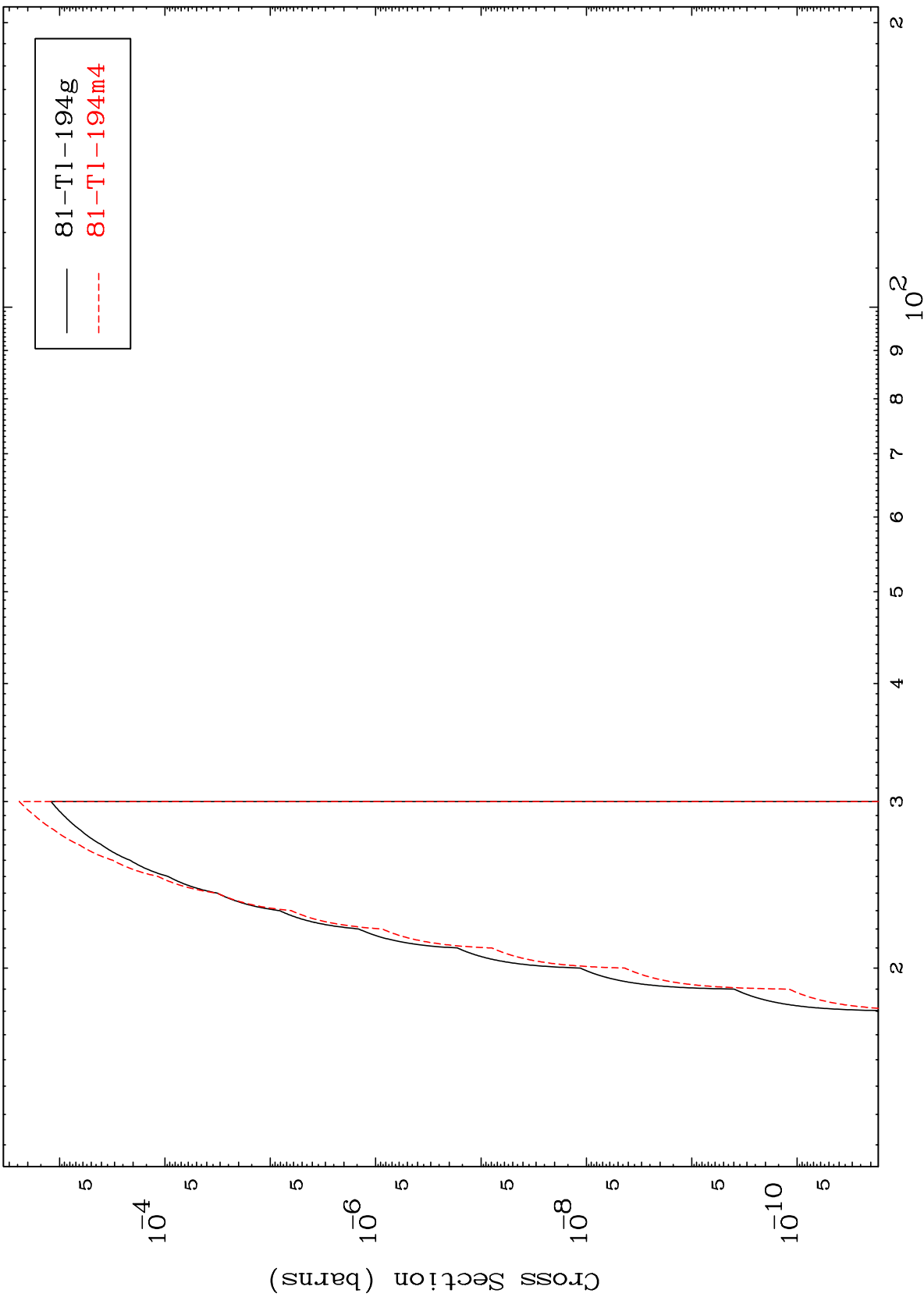


Incident Energy (MeV)

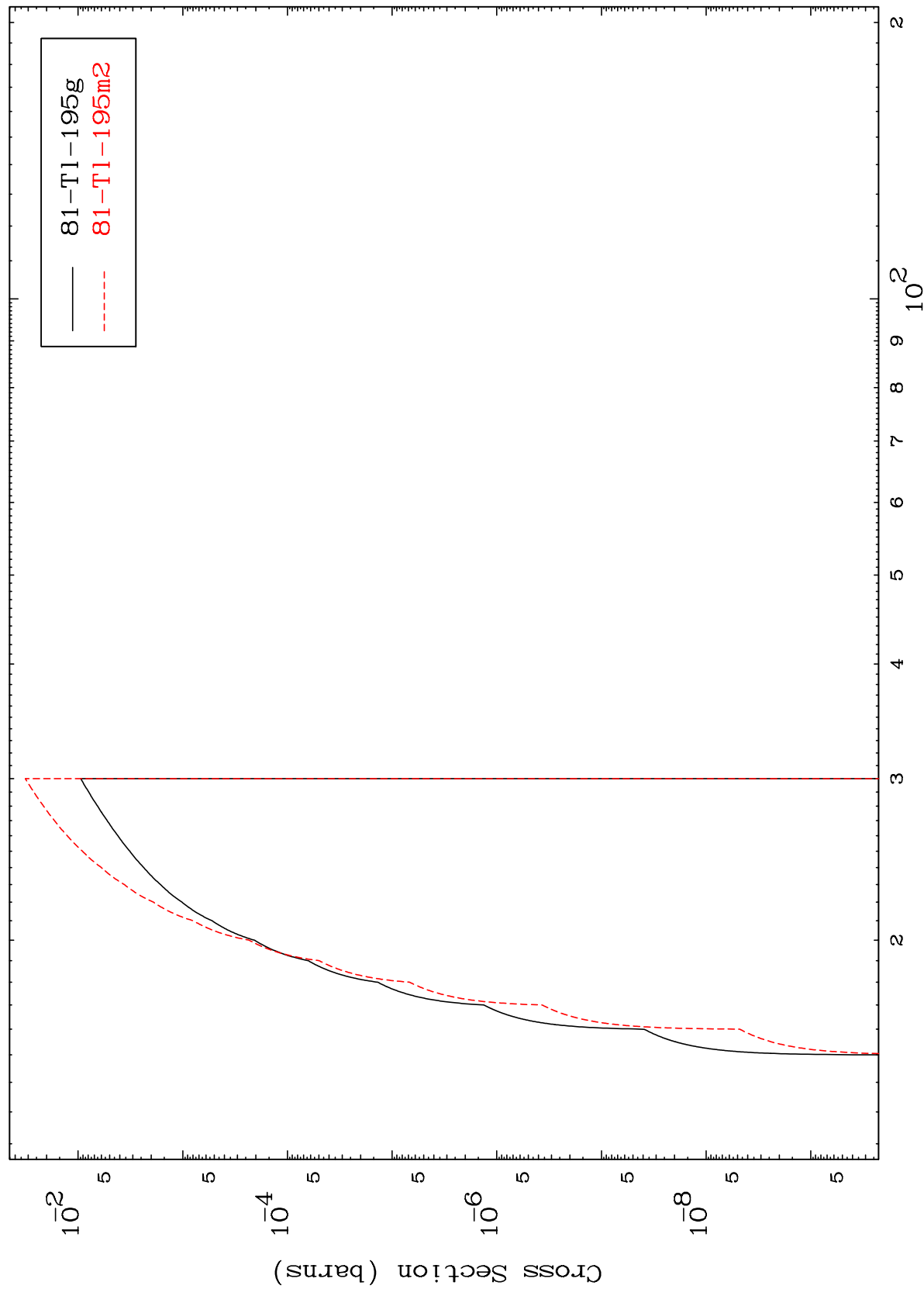
82-Pb-197

148

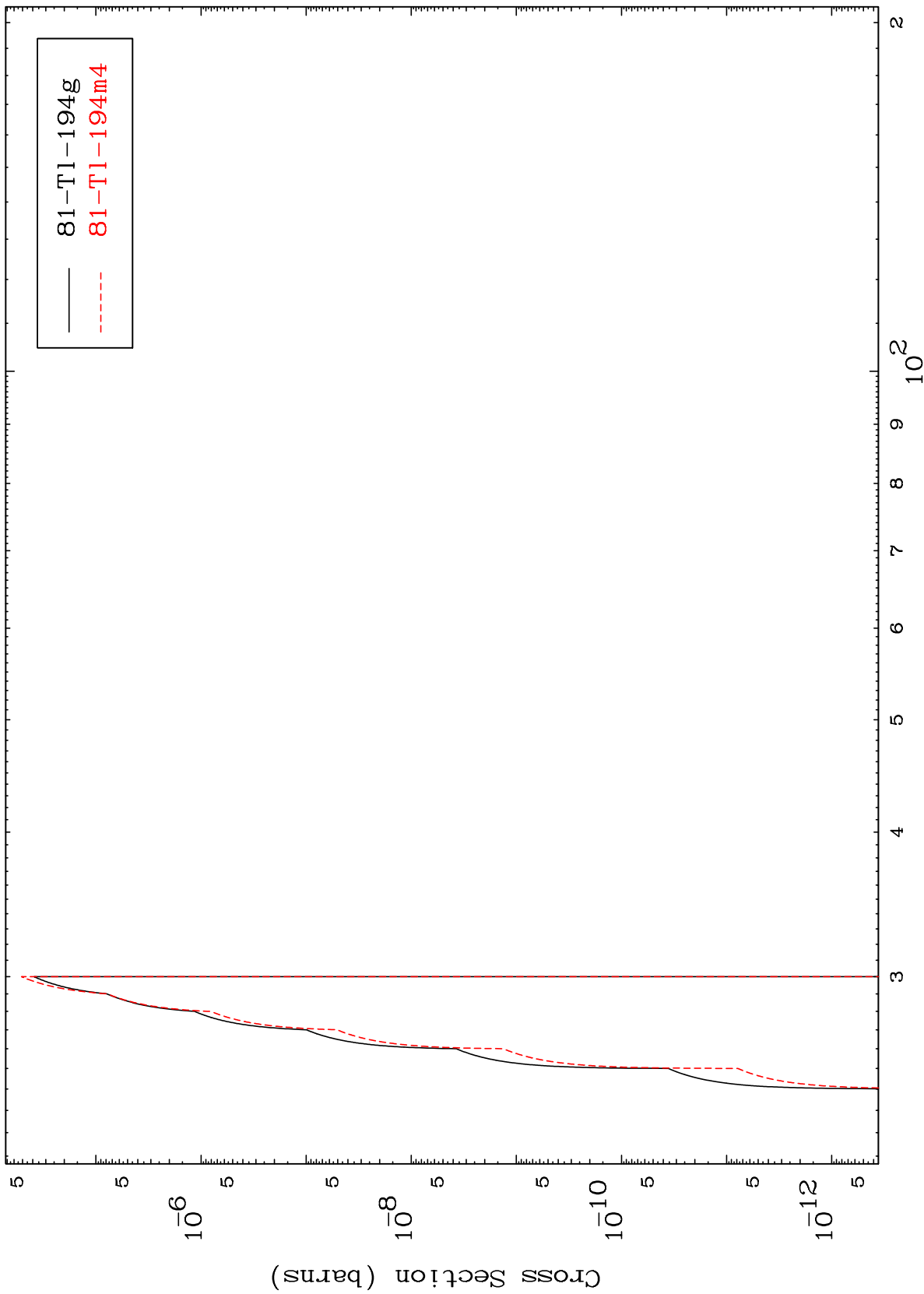
Radionuclide Production Cross Section



Radionuclide Production Cross Section



Radionuclide Production Cross Section



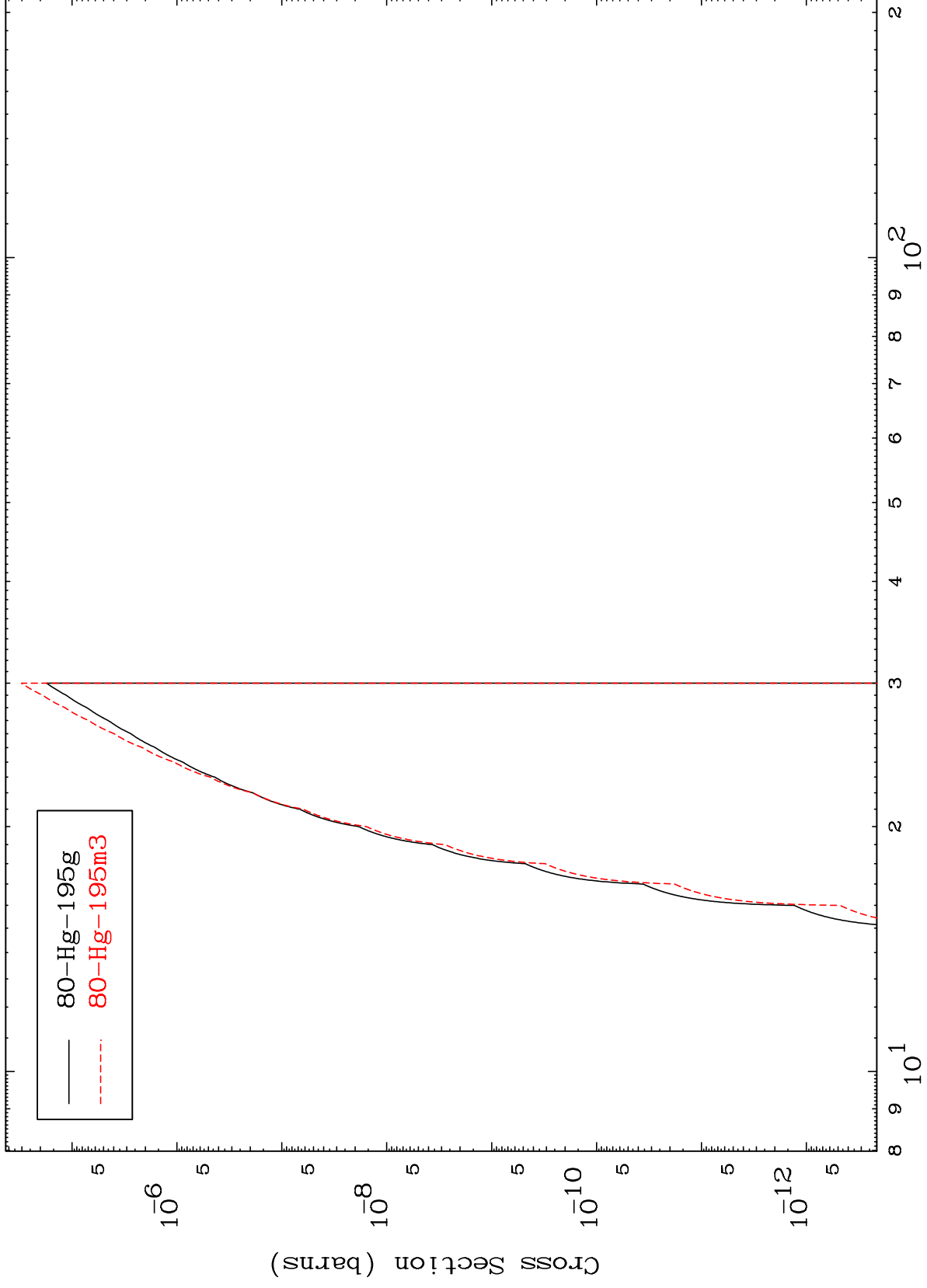
81-Tl-194g  
81-Tl-194m4

MAT 8204

(n,2n) p

82-Pb-197

Radionuclide Production Cross Section

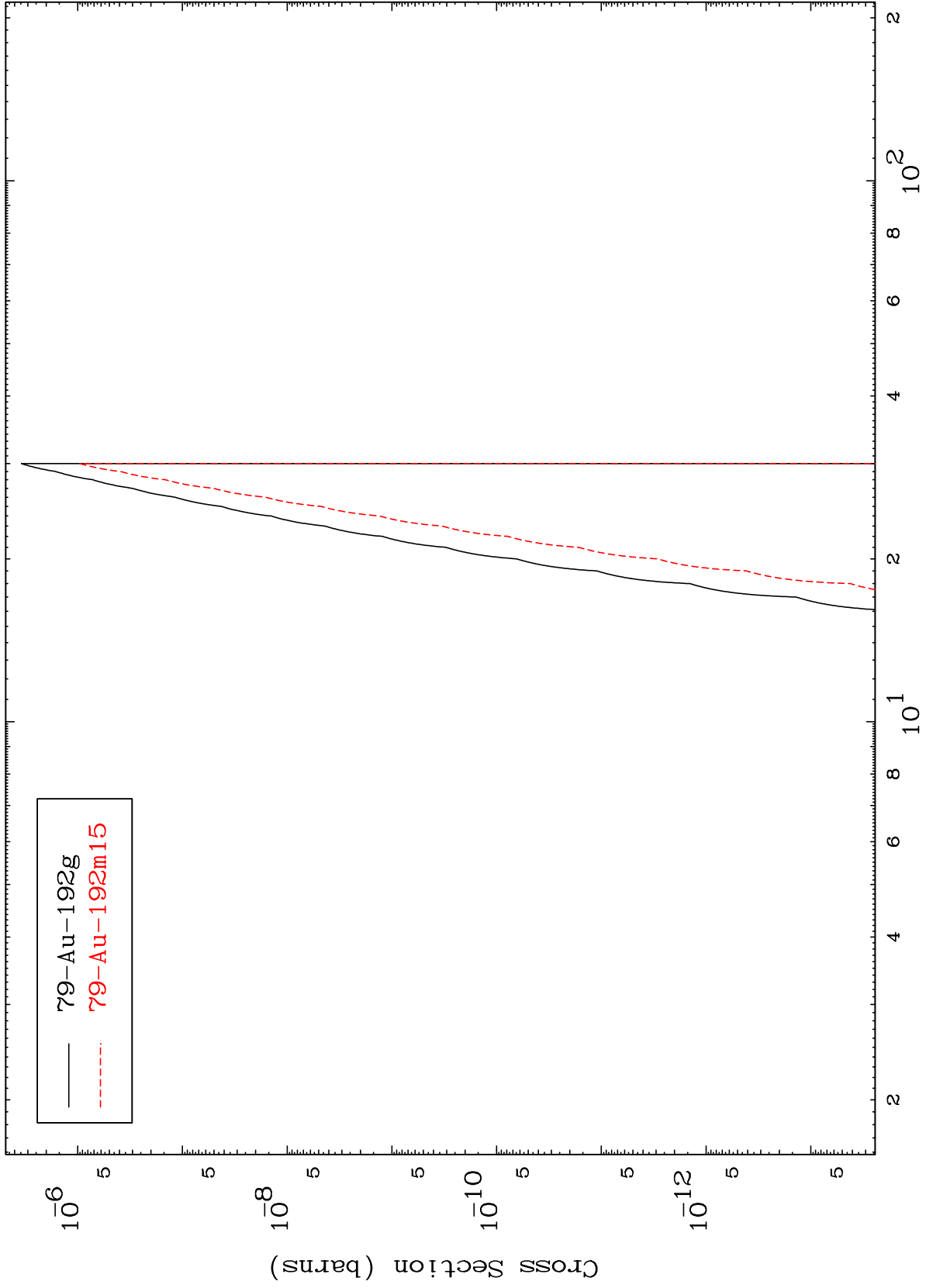


152

Incident Energy (MeV)

82-Pb-197

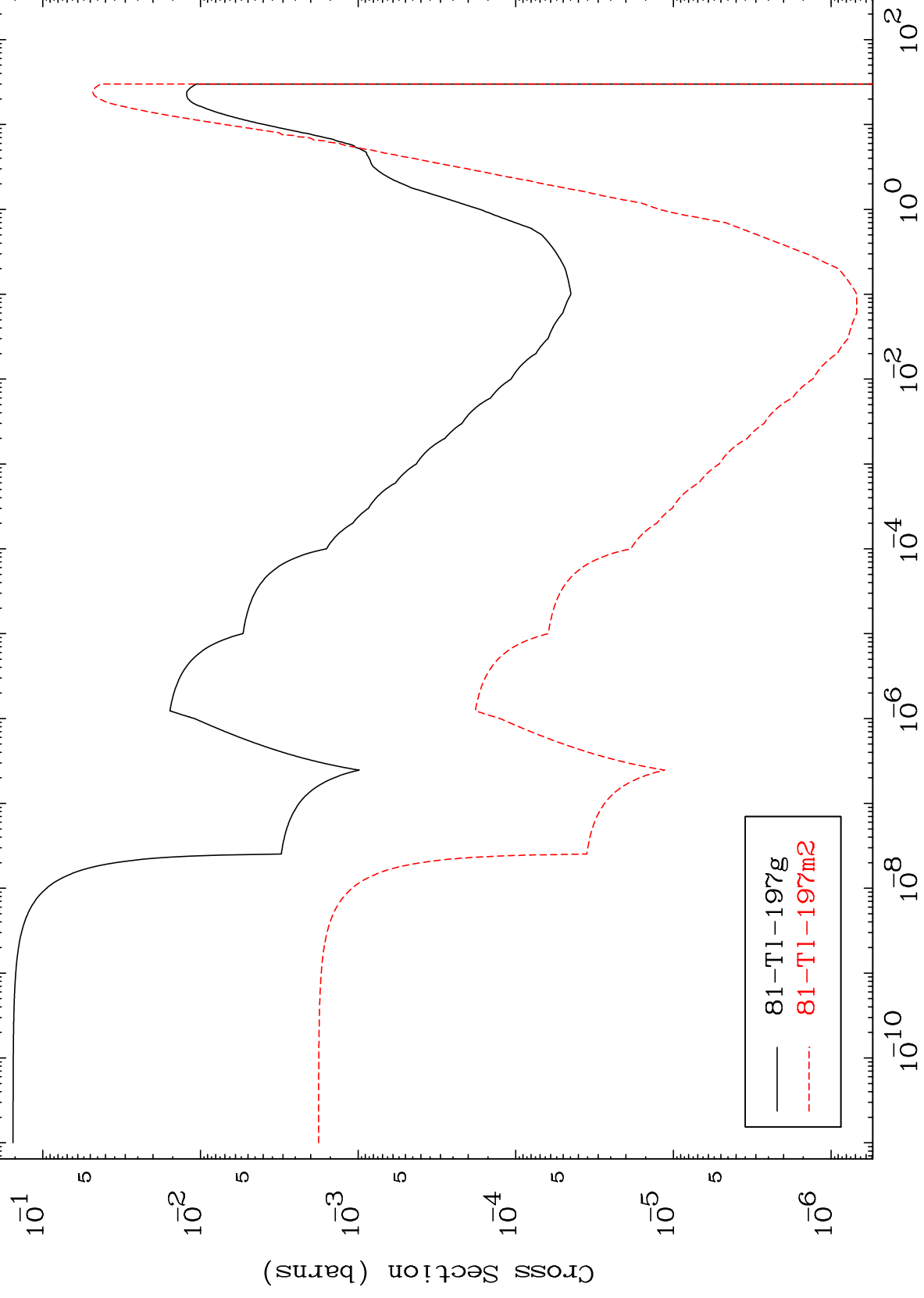
Radionuclide Production Cross Section



MAT 8204

82-Pb-197

(n,p)  
Radionuclide Production Cross Section

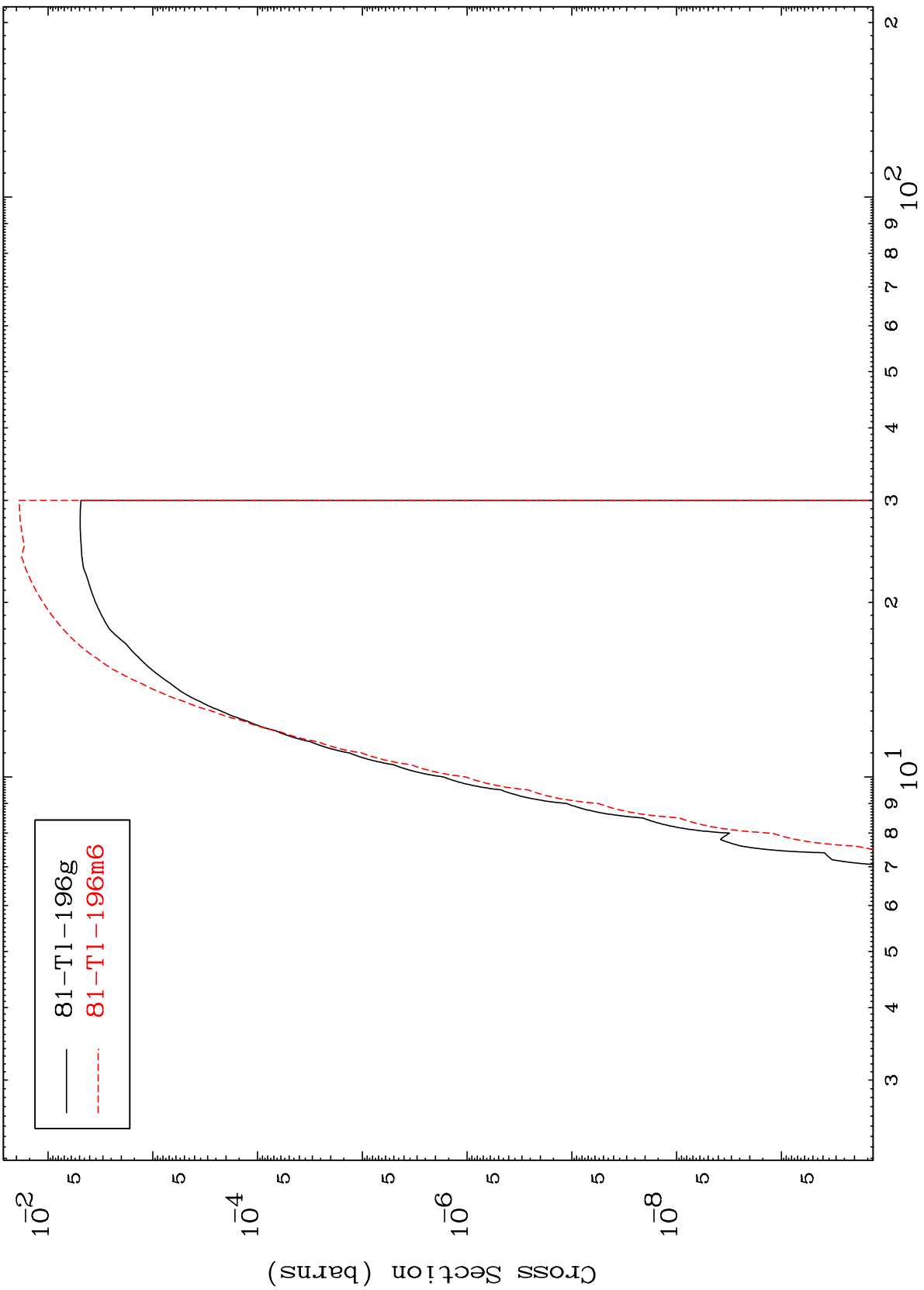


— 81-Tl-197g  
- - - 81-Tl-197m2

MAT 8204

82-Pb-197

(n,d)  
Radionuclide Production Cross Section



82-Pb-197

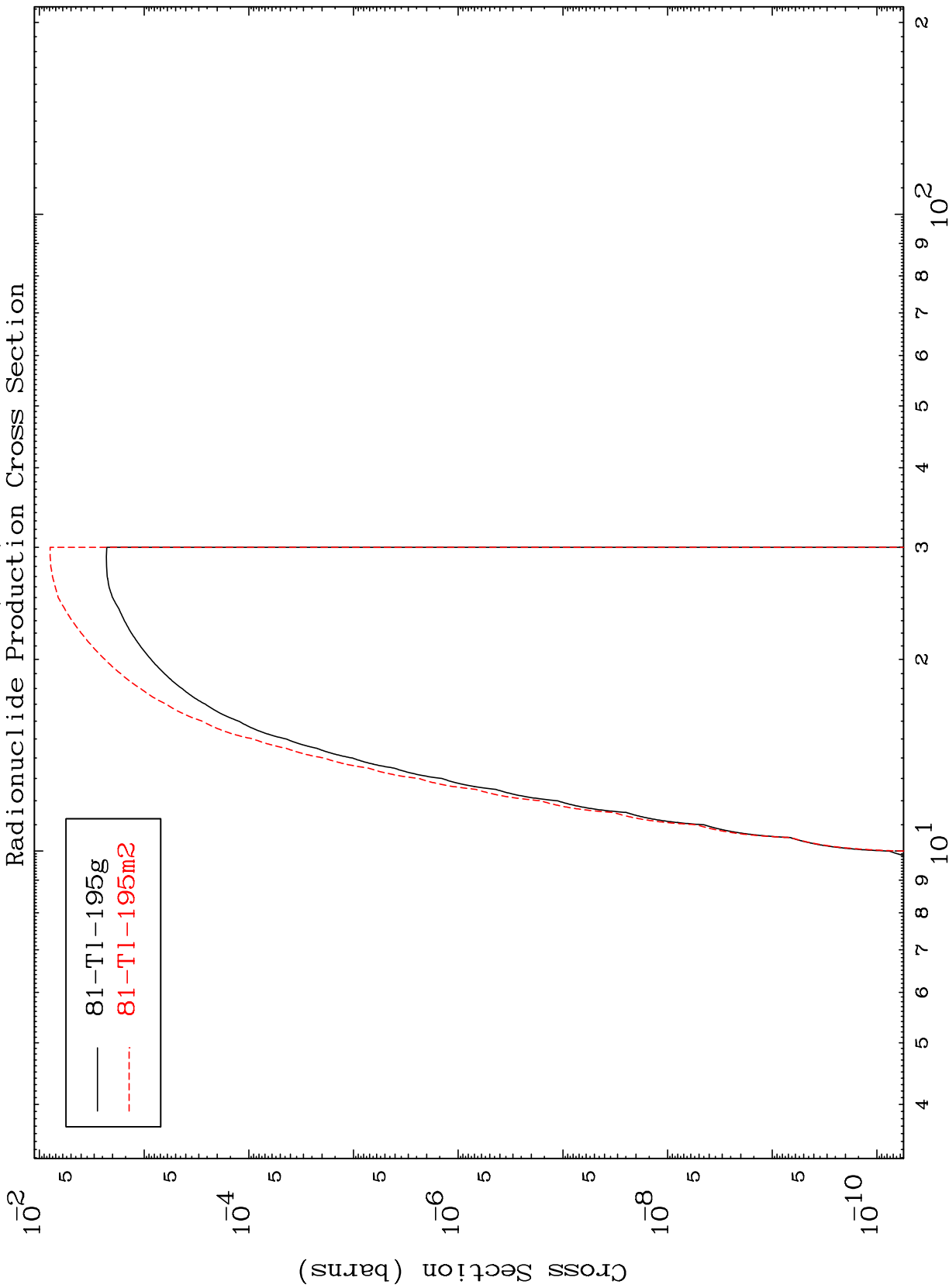
Incident Energy (MeV)

155

MAT 8204

82-Pb-197

(n, t)  
Radionuclide Production Cross Section



82-Pb-197

Incident Energy (MeV)

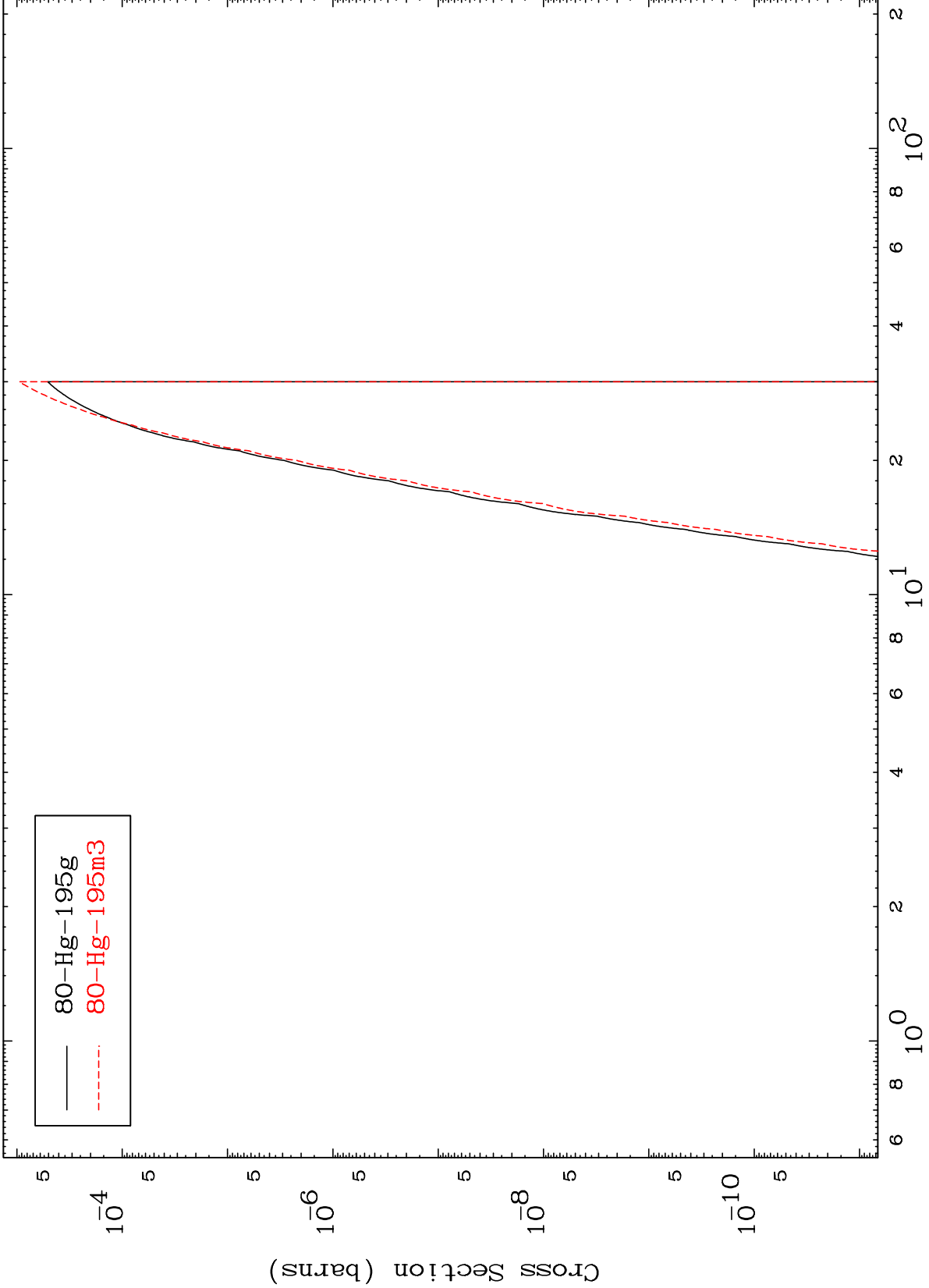
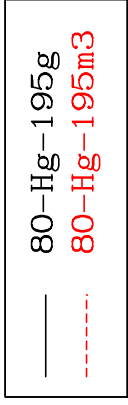
156

MAT 8204

(n,He-3)

82-Pb-197

Radionuclide Production Cross Section



157

Incident Energy (MeV)

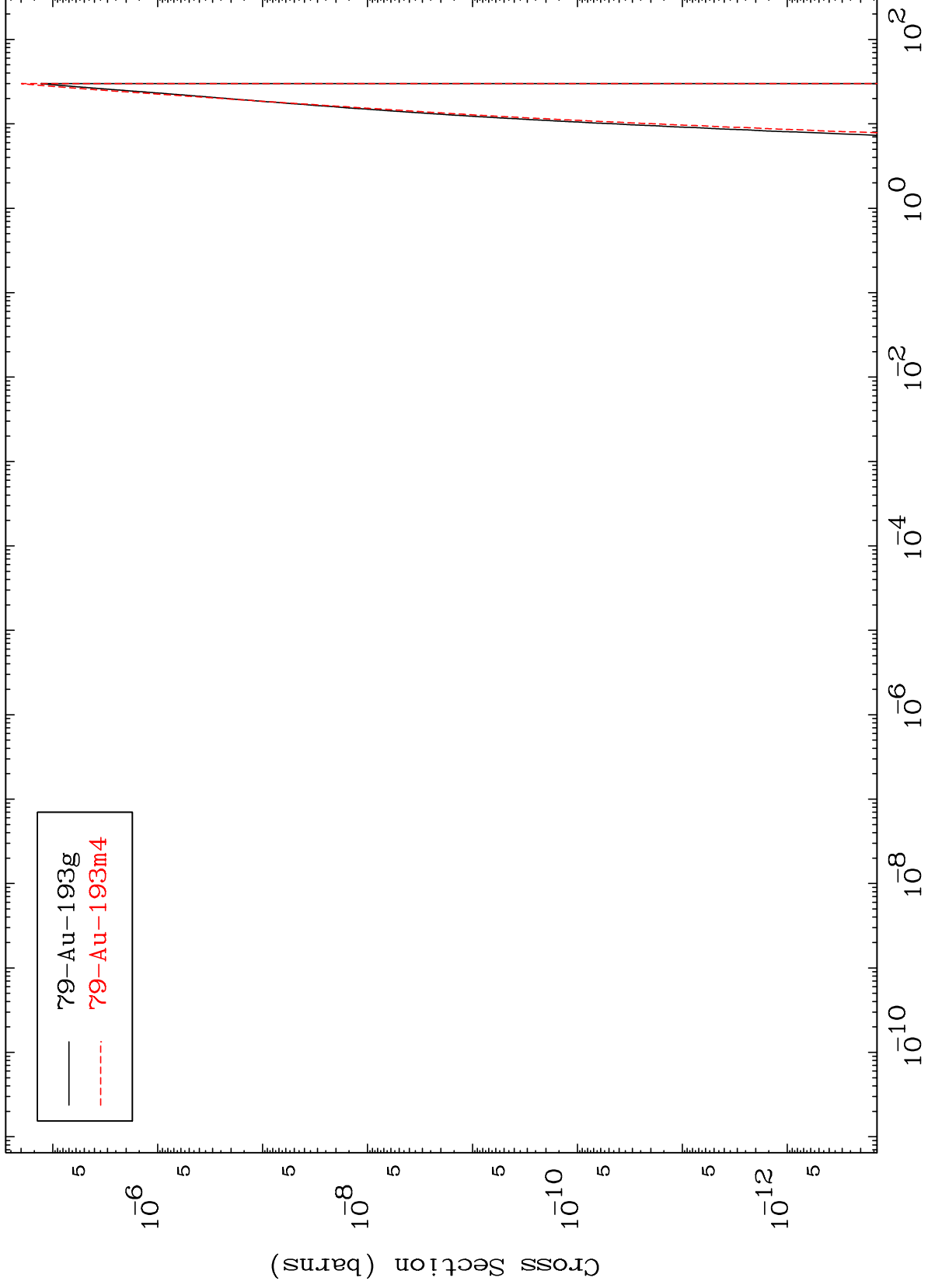
82-Pb-197

MAT 8204

(n,p)  $\alpha$

82-Pb-197

Radionuclide Production Cross Section

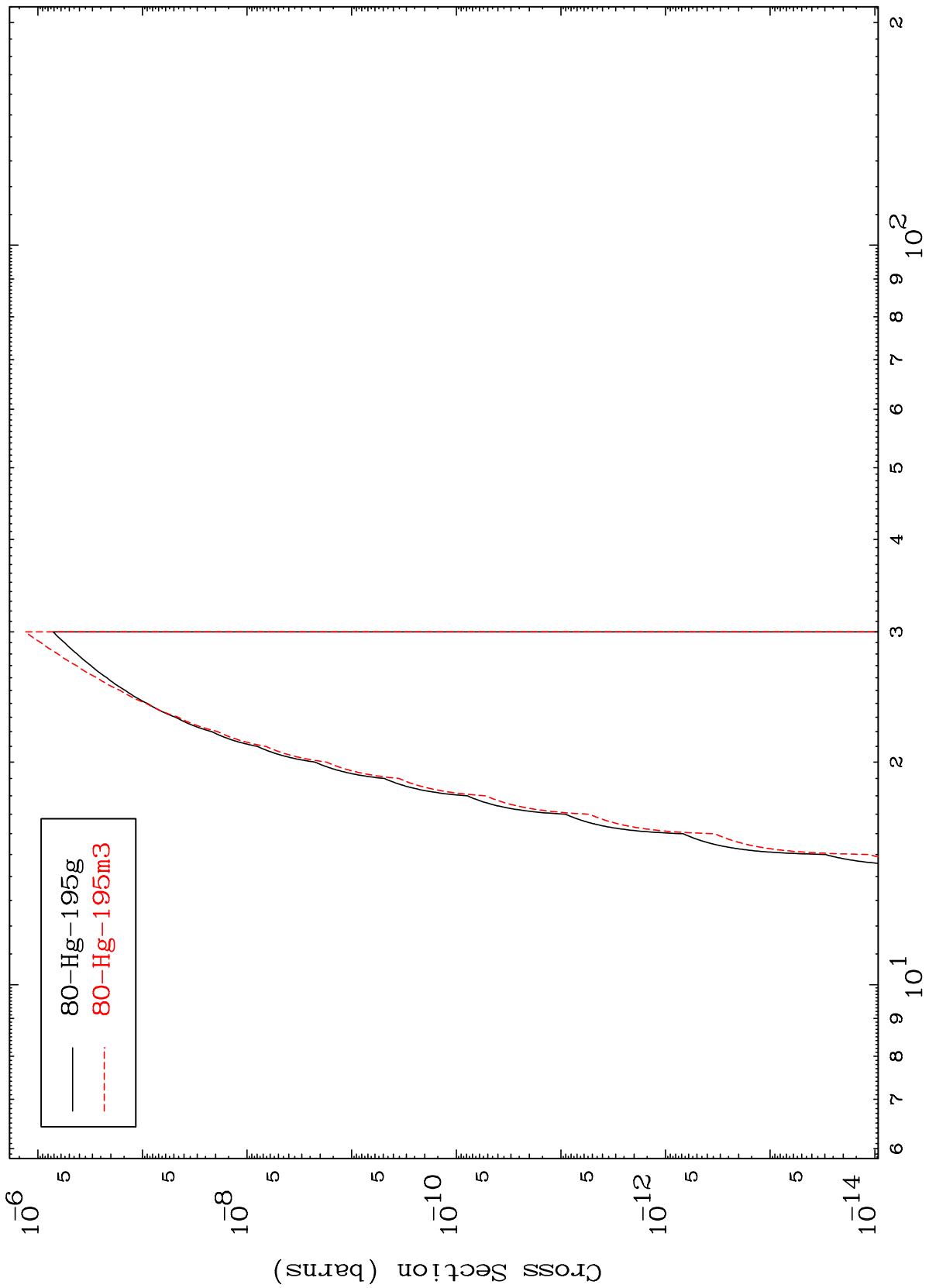


MAT 8204

(n,p) d

82-Pb-197

Radionuclide Production Cross Section



80-Hg-195g  
80-Hg-195m3

159

Incident Energy (MeV)

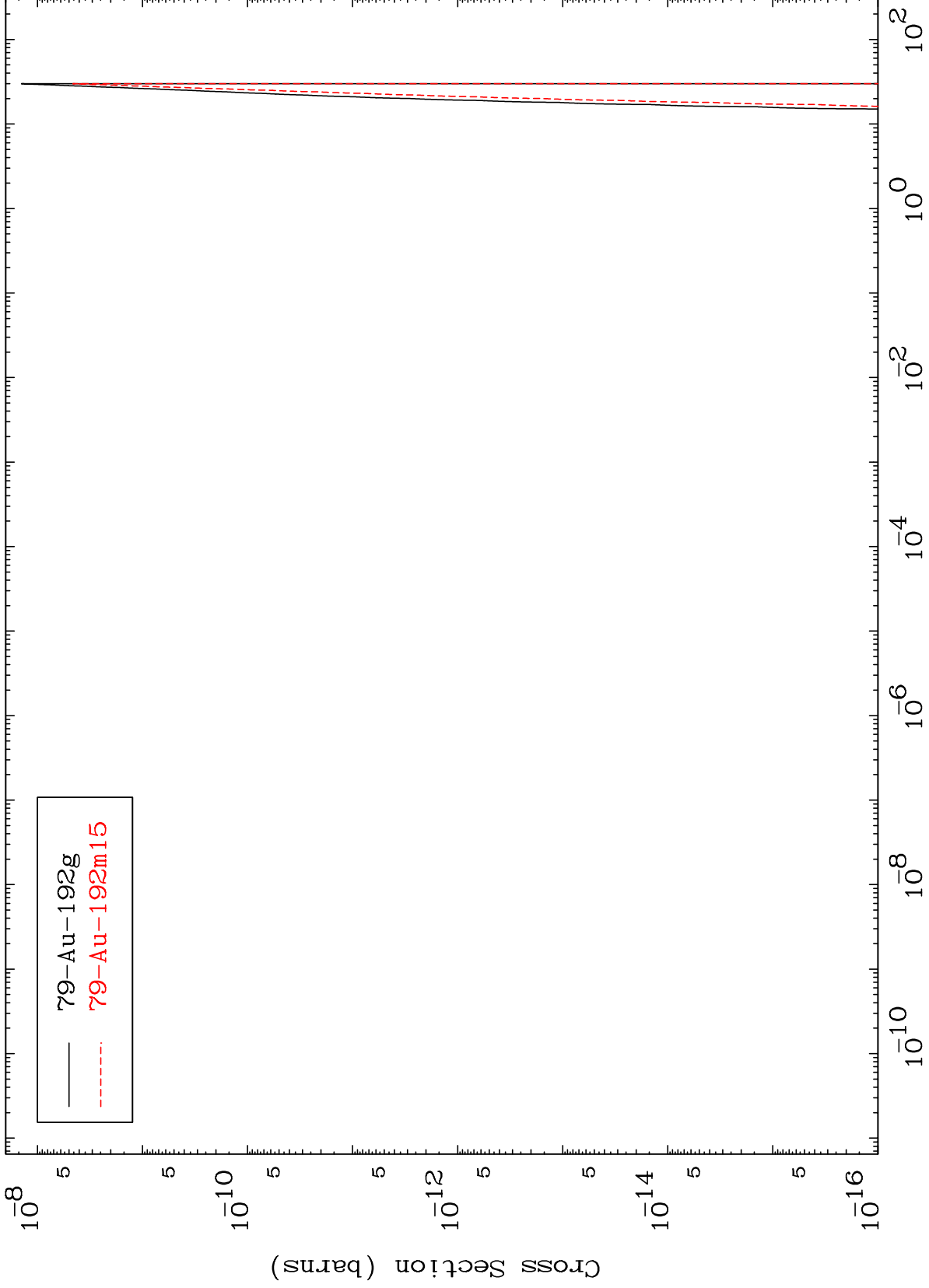
82-Pb-197

MAT 8204

(n,d)  $\alpha$

82-Pb-197

Radionuclide Production Cross Section



160

Incident Energy (MeV)

82-Pb-197