

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

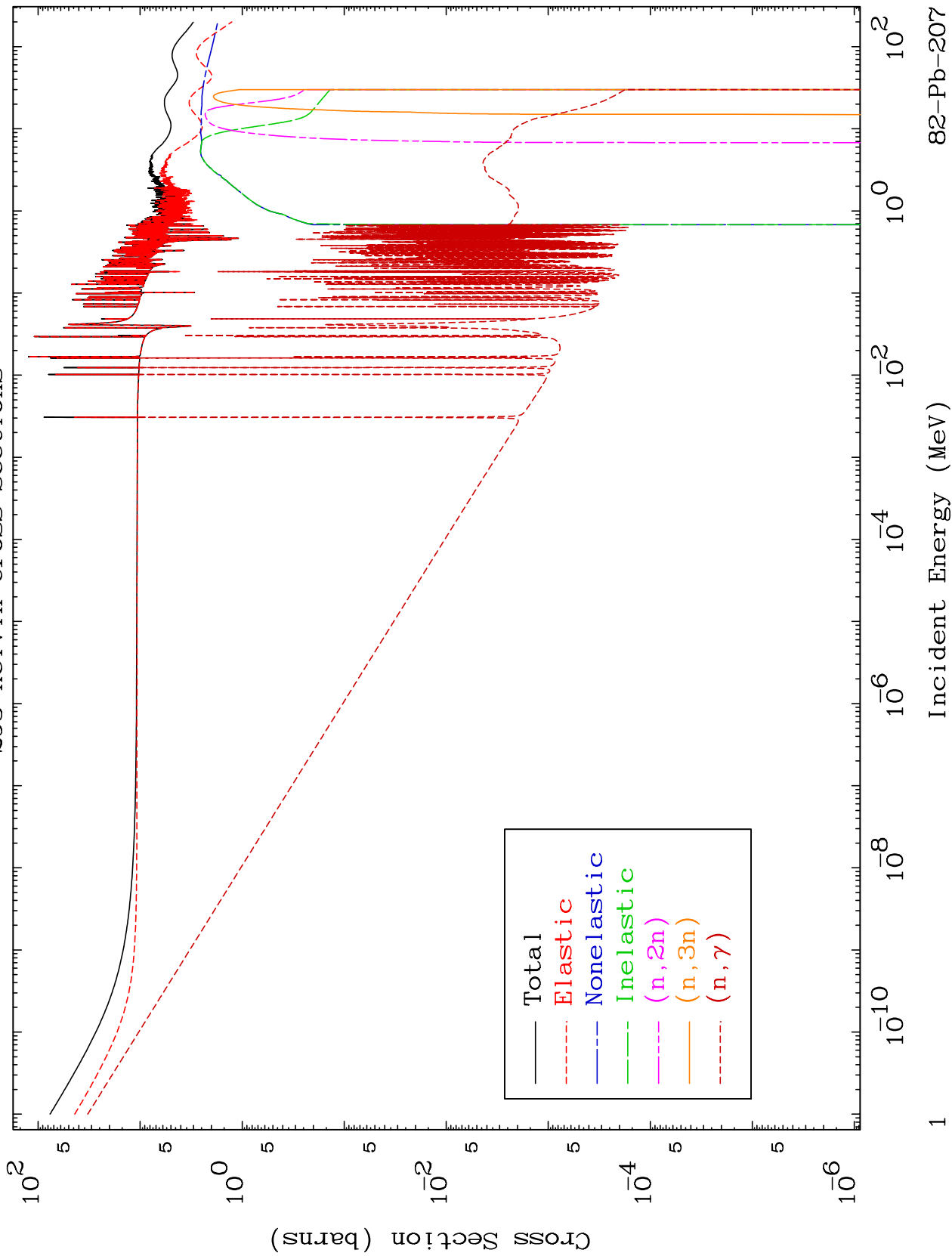
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 8234

Neutron Major  
293 Kelvin Cross Sections

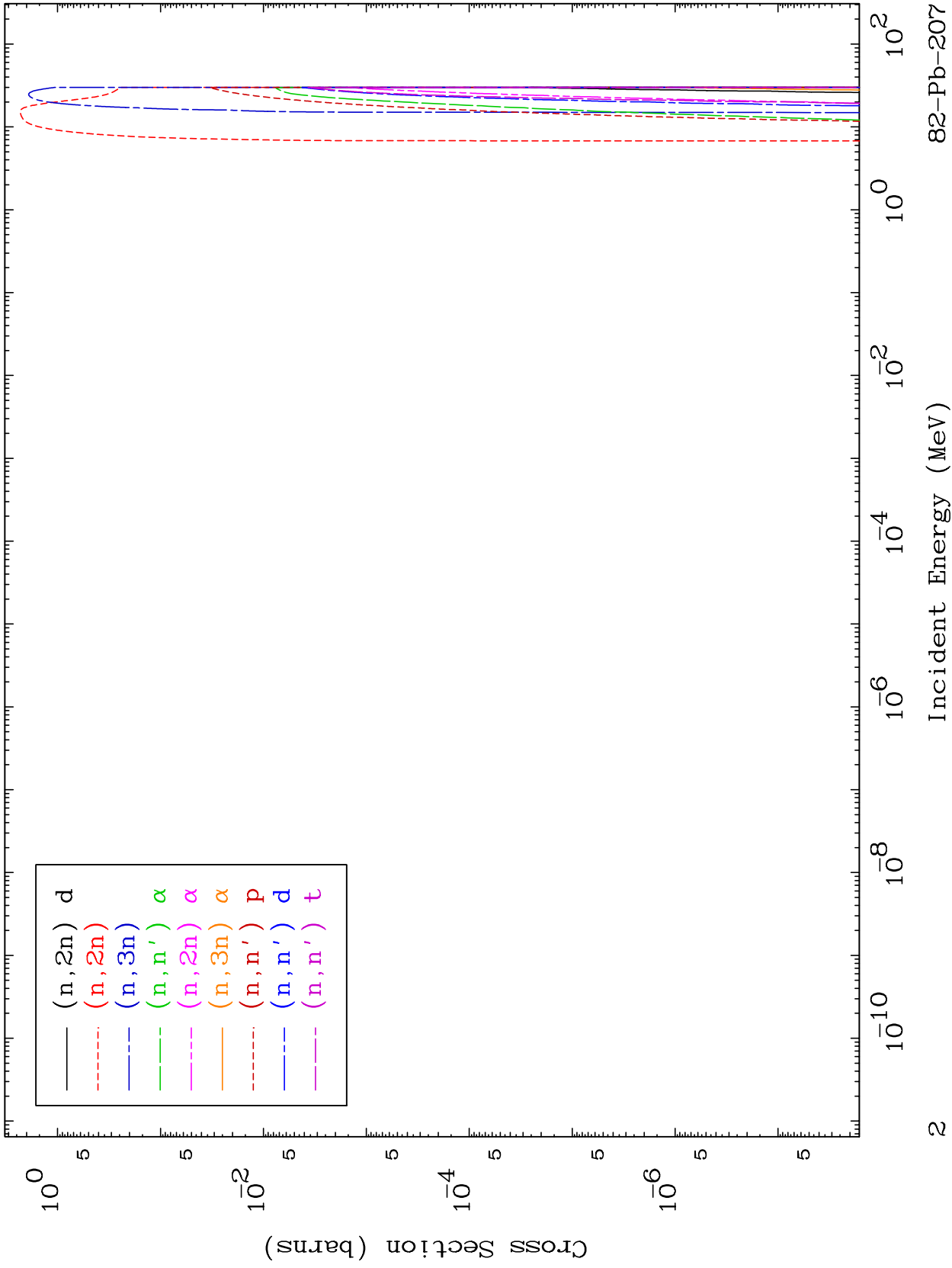
82-Pb-207



MAT 8234

Neutron Absorption  
293 Kelvin Cross Sections

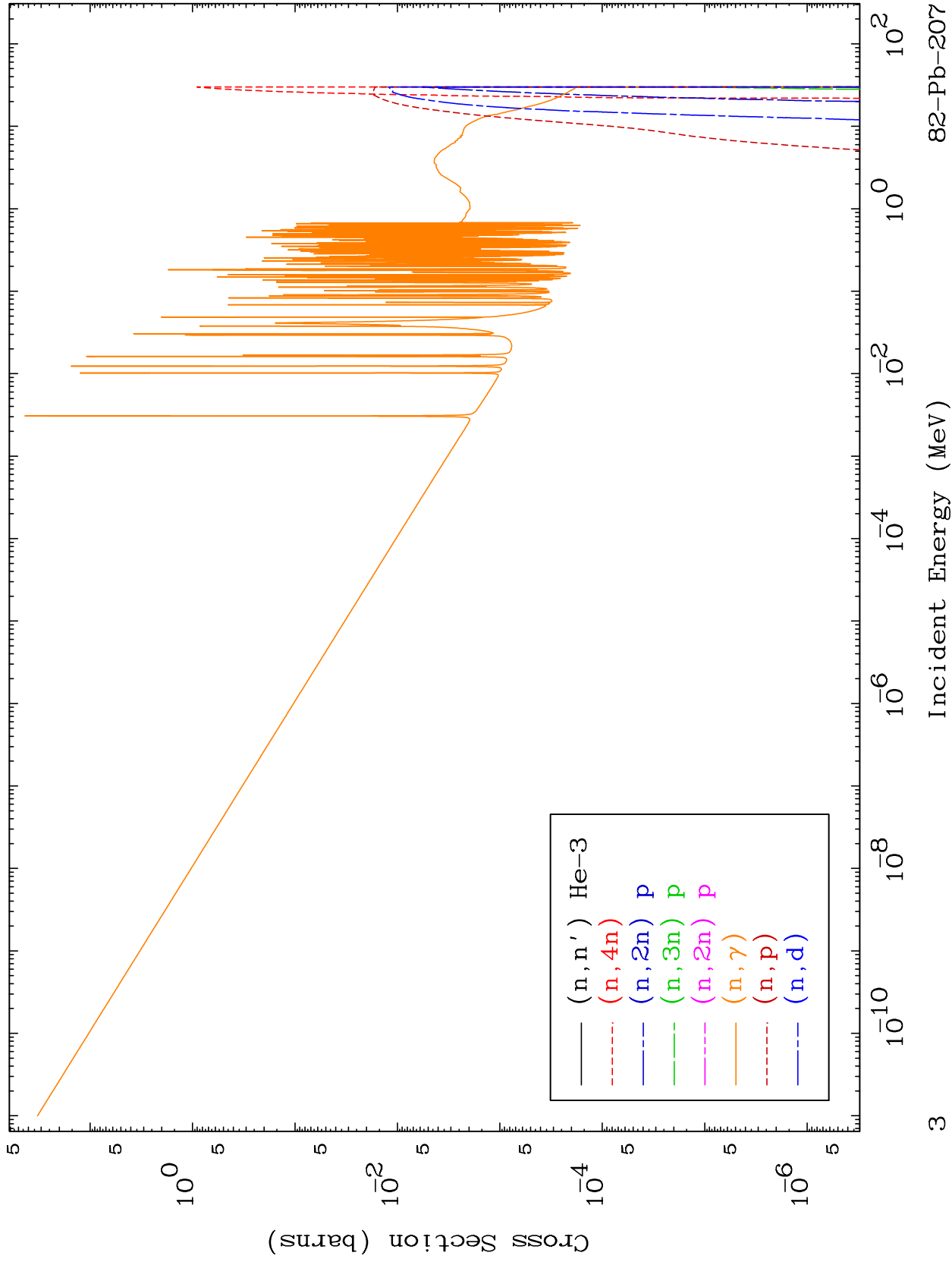
82-Pb-207



MAT 8234

Neutron Absorption  
293 Kelvin Cross Sections

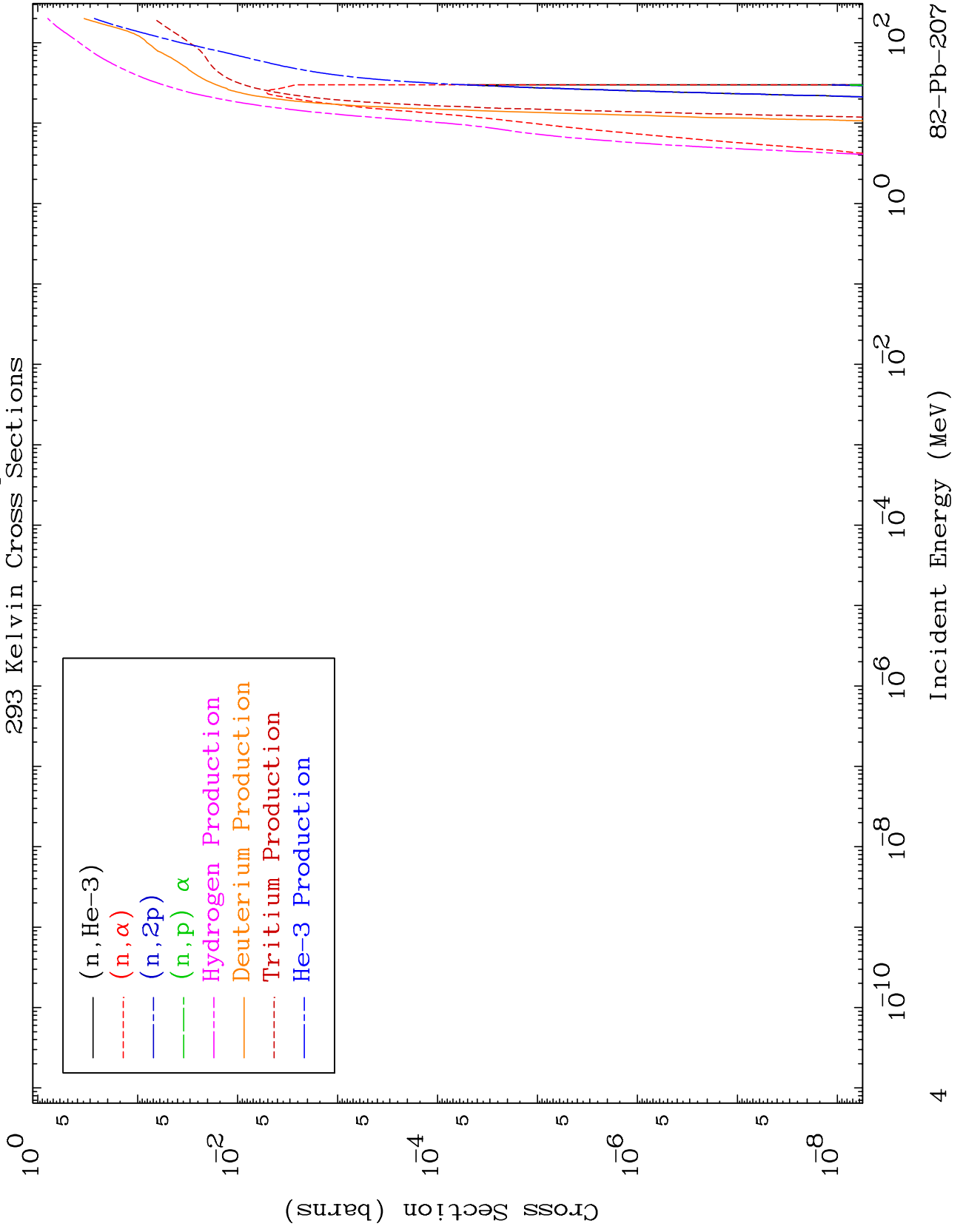
82-Pb-207



MAT 8234

Neutron Absorption  
293 Kelvin Cross Sections

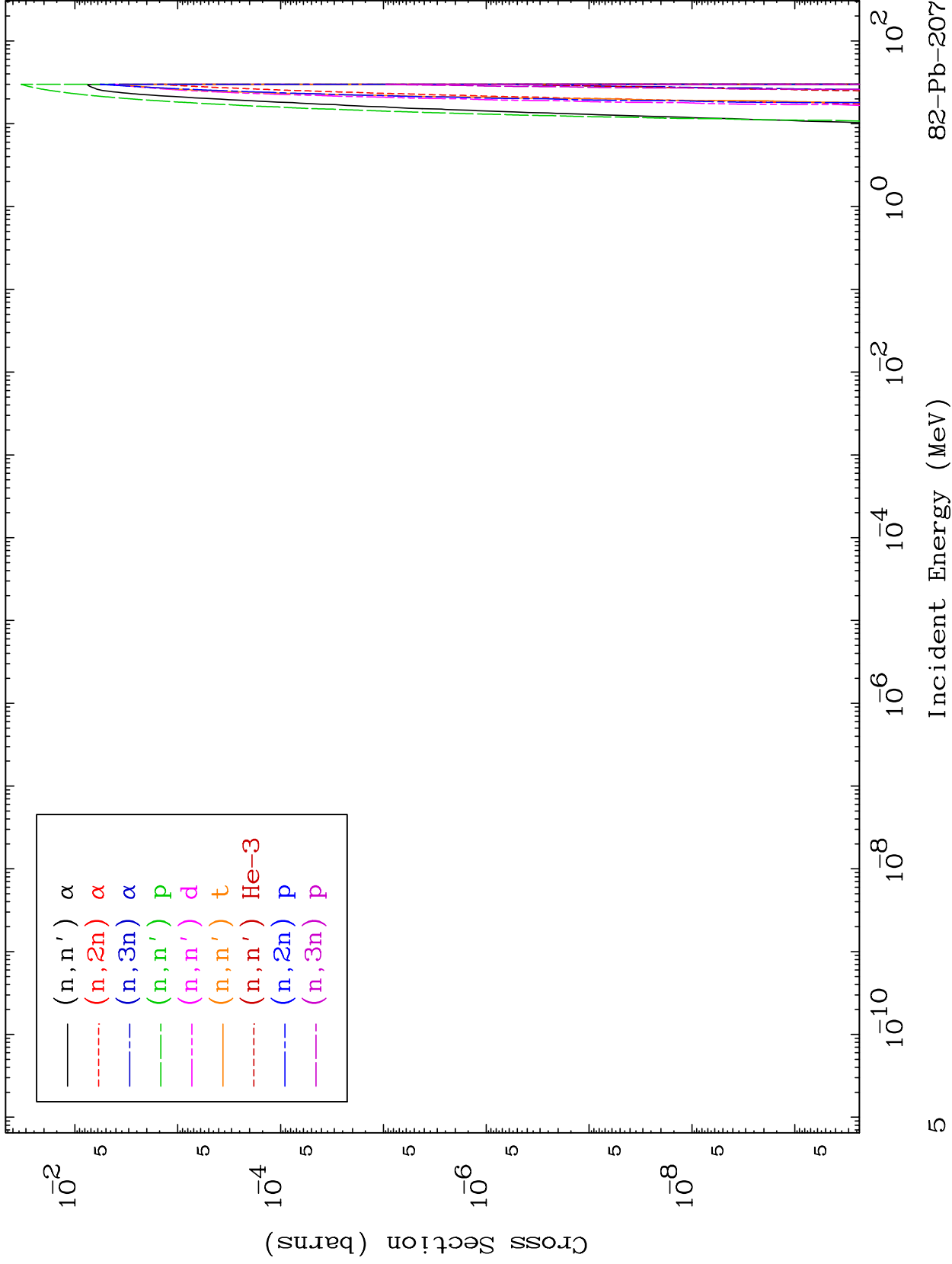
82-Pb-207



MAT 8234

Charged Particle  
293 Kelvin Cross Sections

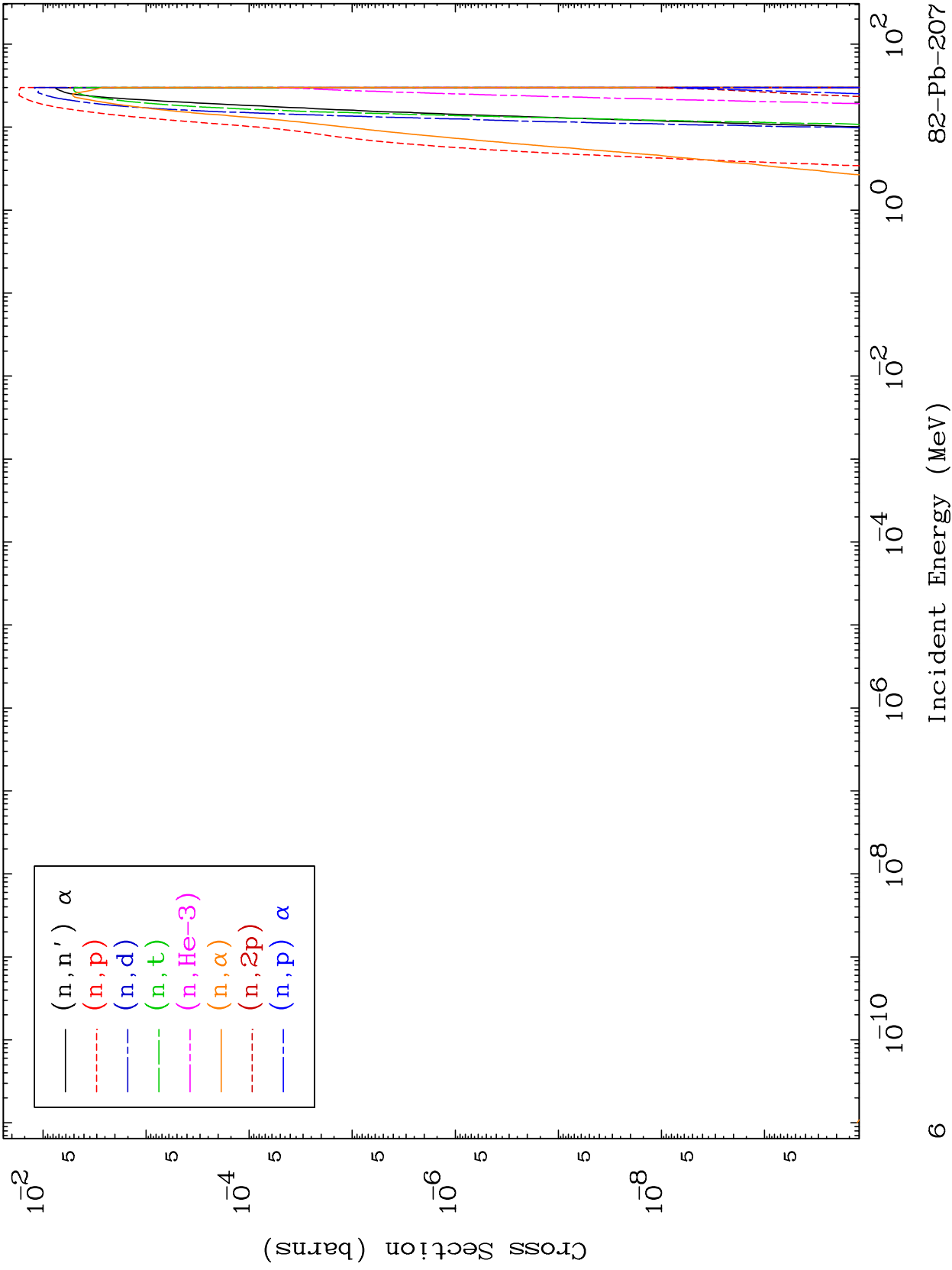
82-Pb-207



MAT 8234

Charged Particle  
293 Kelvin Cross Sections

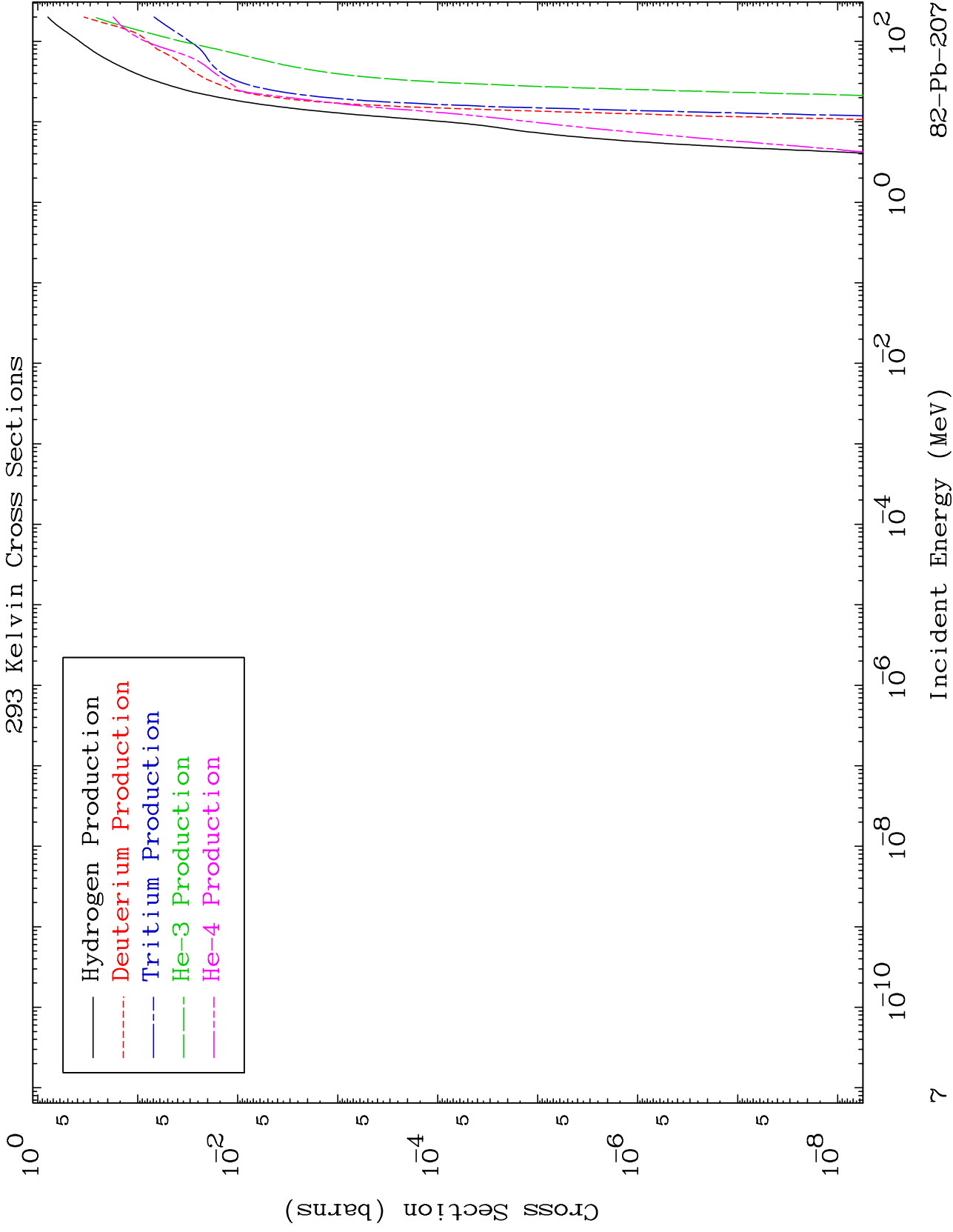
82-Pb-207



MAT 8234

Particle Production  
293 Kelvin Cross Sections

82-Pb-207

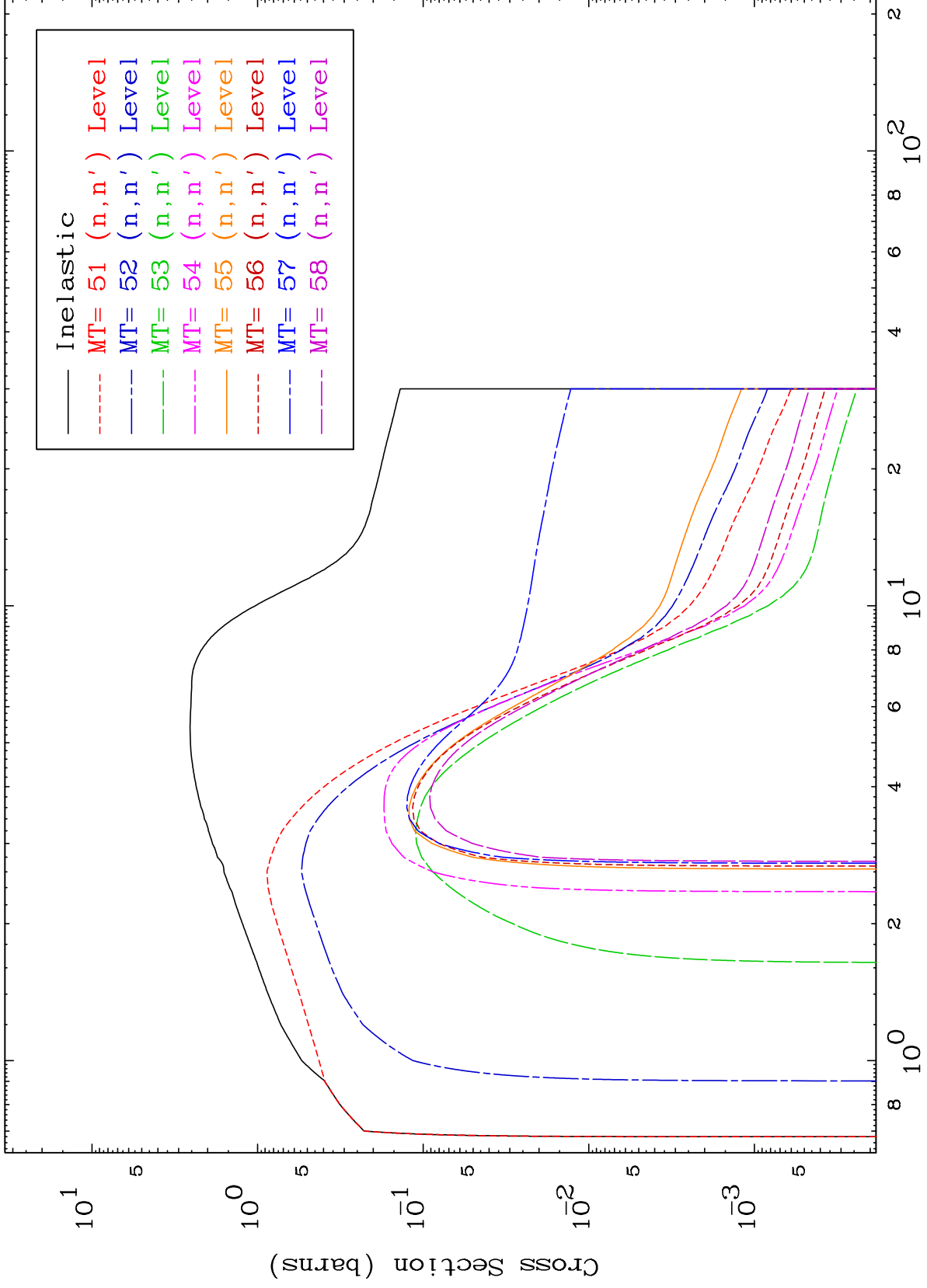




MAT 8234

(n,n') Levels  
293 Kelvin Cross Sections

82-Pb-207



8

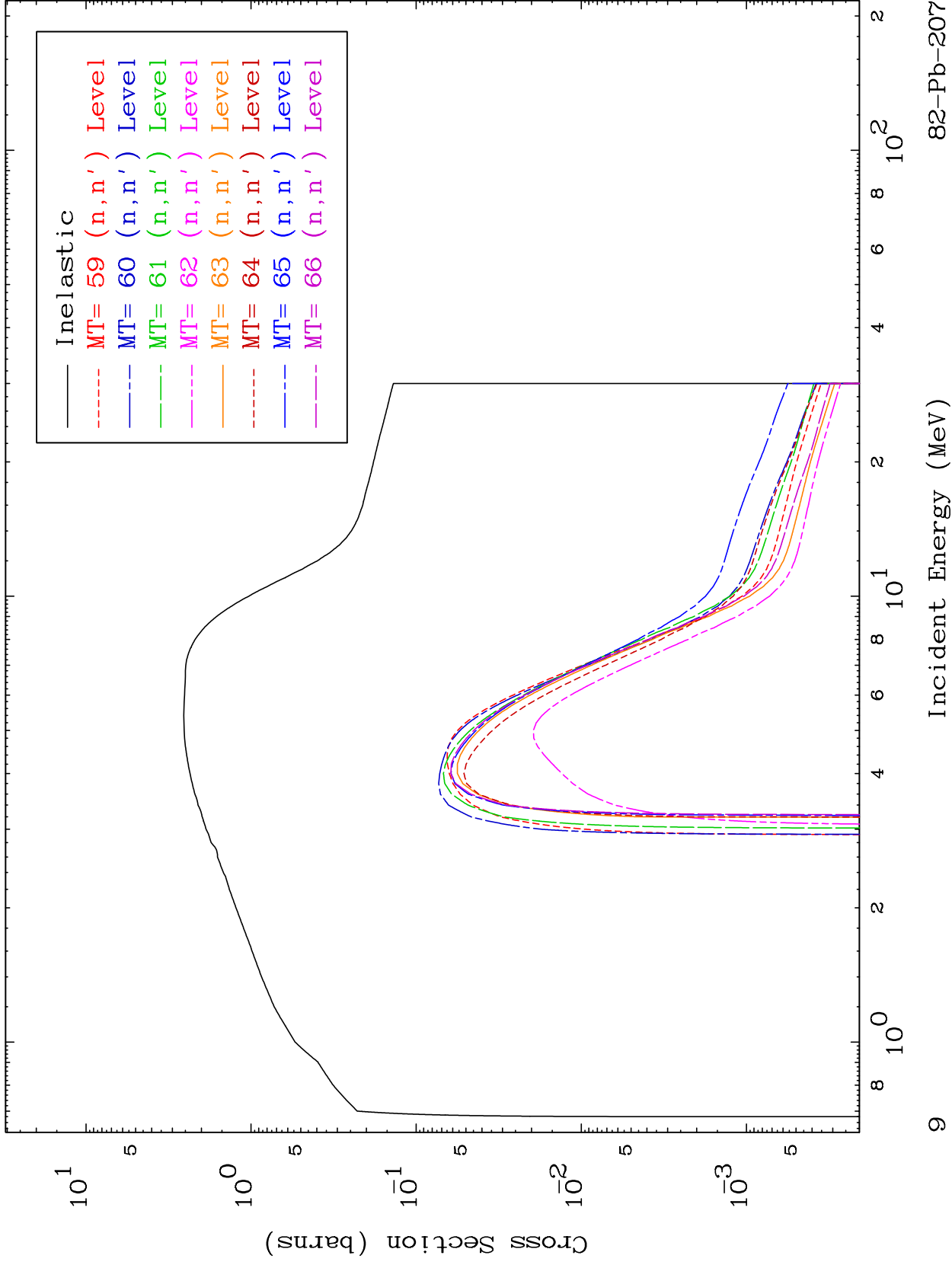
Incident Energy (MeV)

82-Pb-207

MAT 8234

(n,n') Levels  
293 Kelvin Cross Sections

82-Pb-207

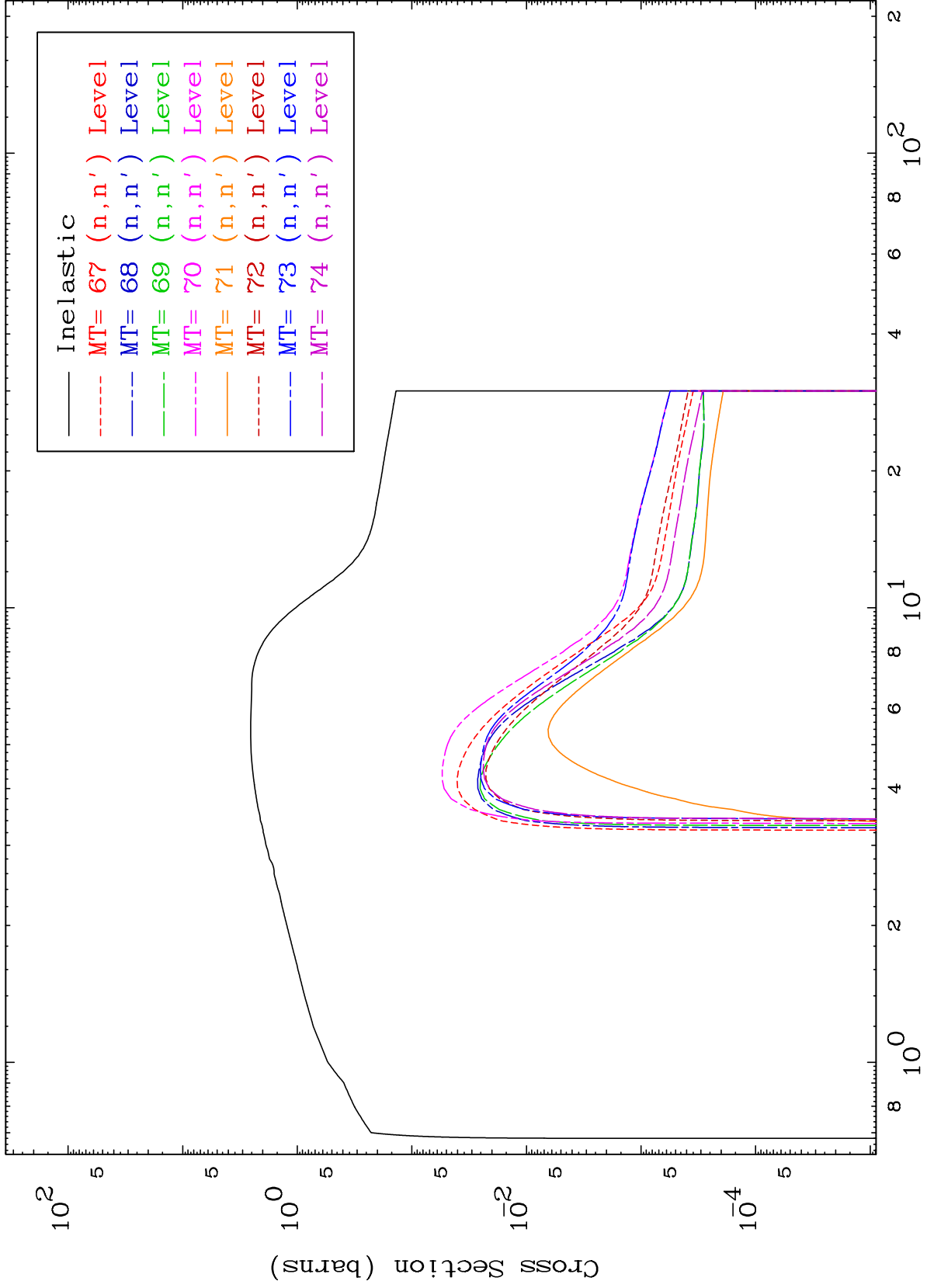


MAT 8234

(n,n') Levels

82-Pb-207

293 Kelvin Cross Sections



10

Incident Energy (MeV)

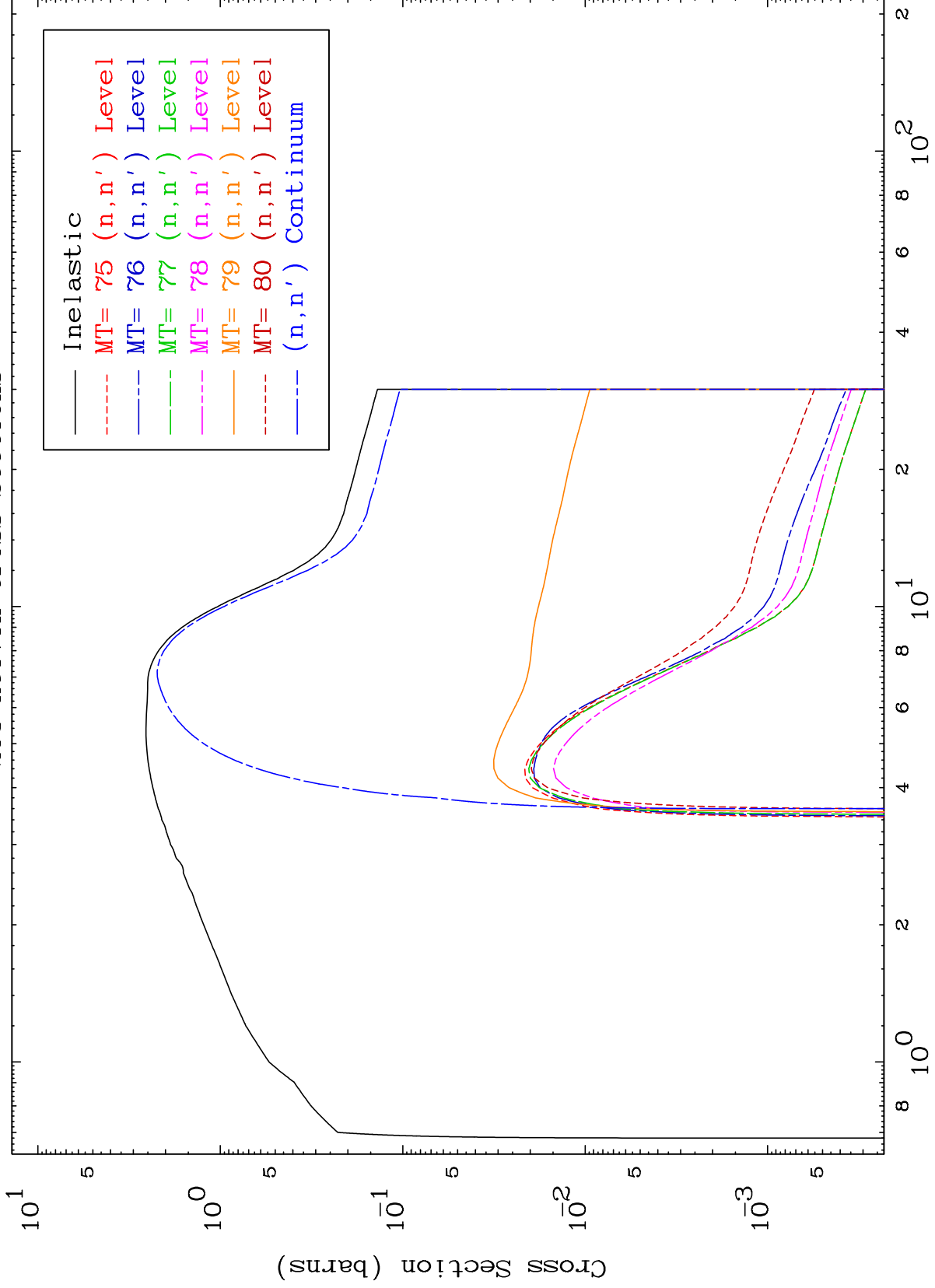
82-Pb-207

MAT 8234

(n,n') Levels

82-Pb-207

293 Kelvins Cross Sections



11

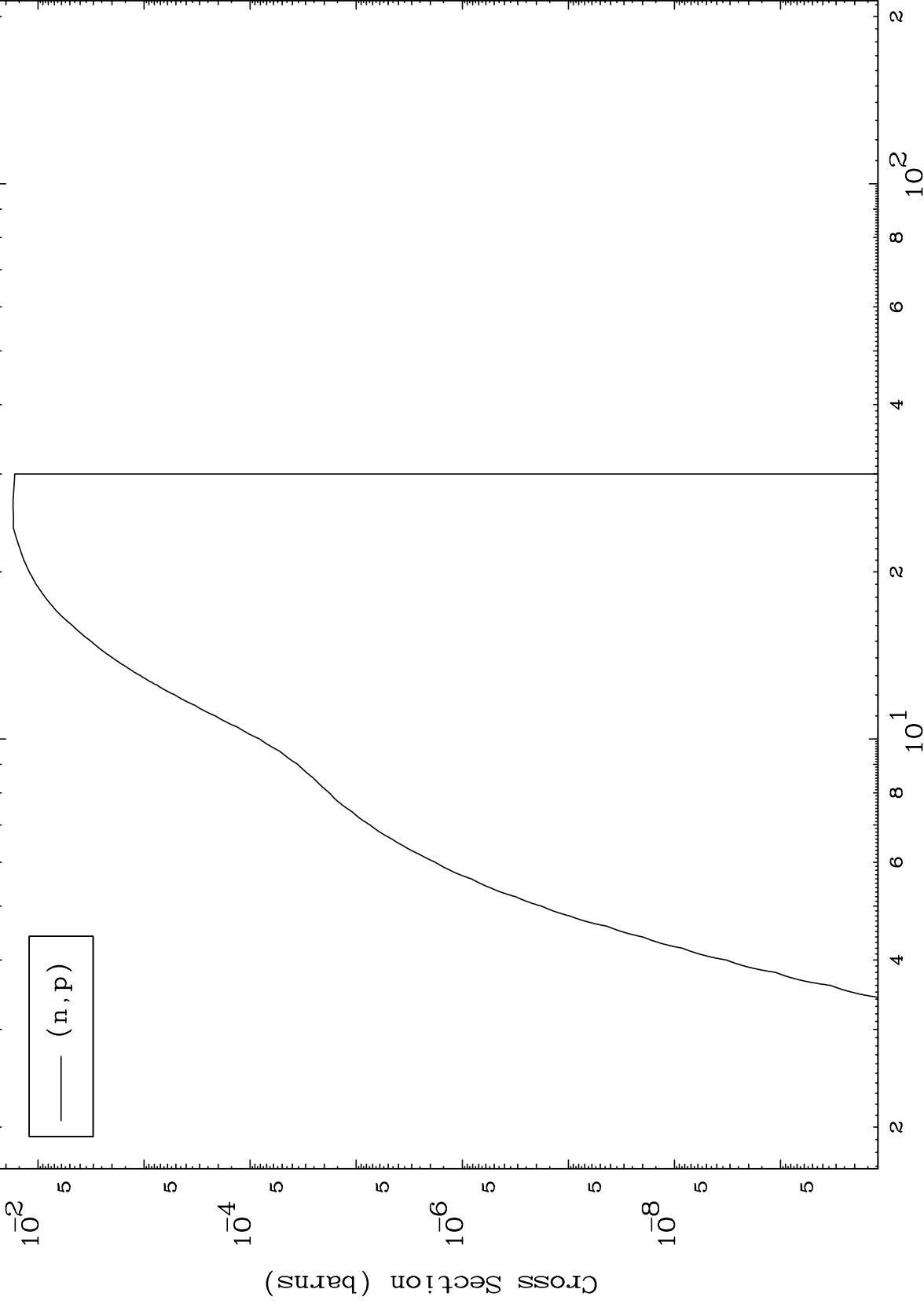
Incident Energy (MeV)

82-Pb-207

MAT 8234

(n,p) Levels  
293 Kelvin Cross Sections

82-Pb-207



12

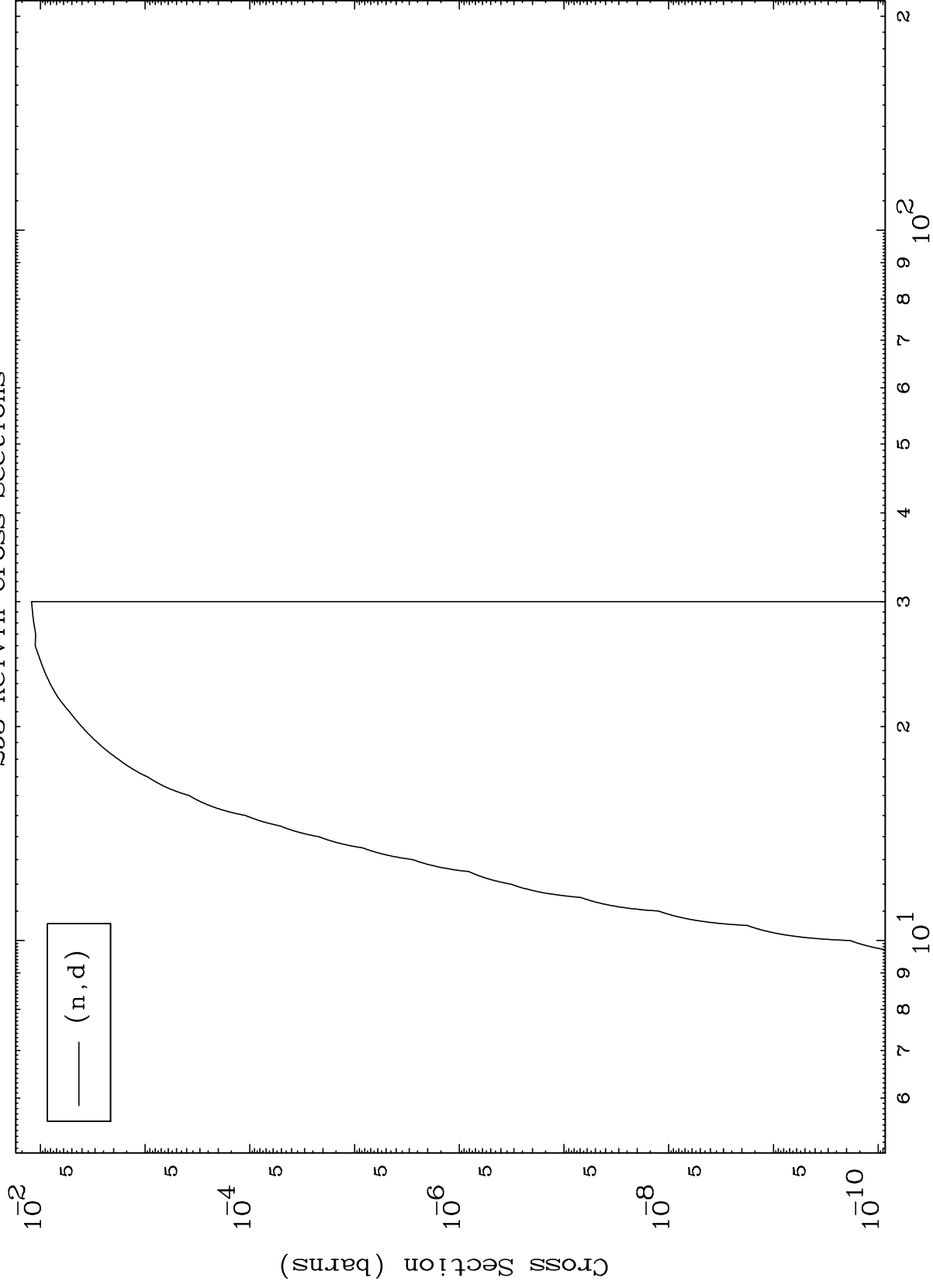
Incident Energy (MeV)

82-Pb-207

MAT 8234

(n,d) Levels  
293 Kelvin Cross Sections

82-Pb-207



13

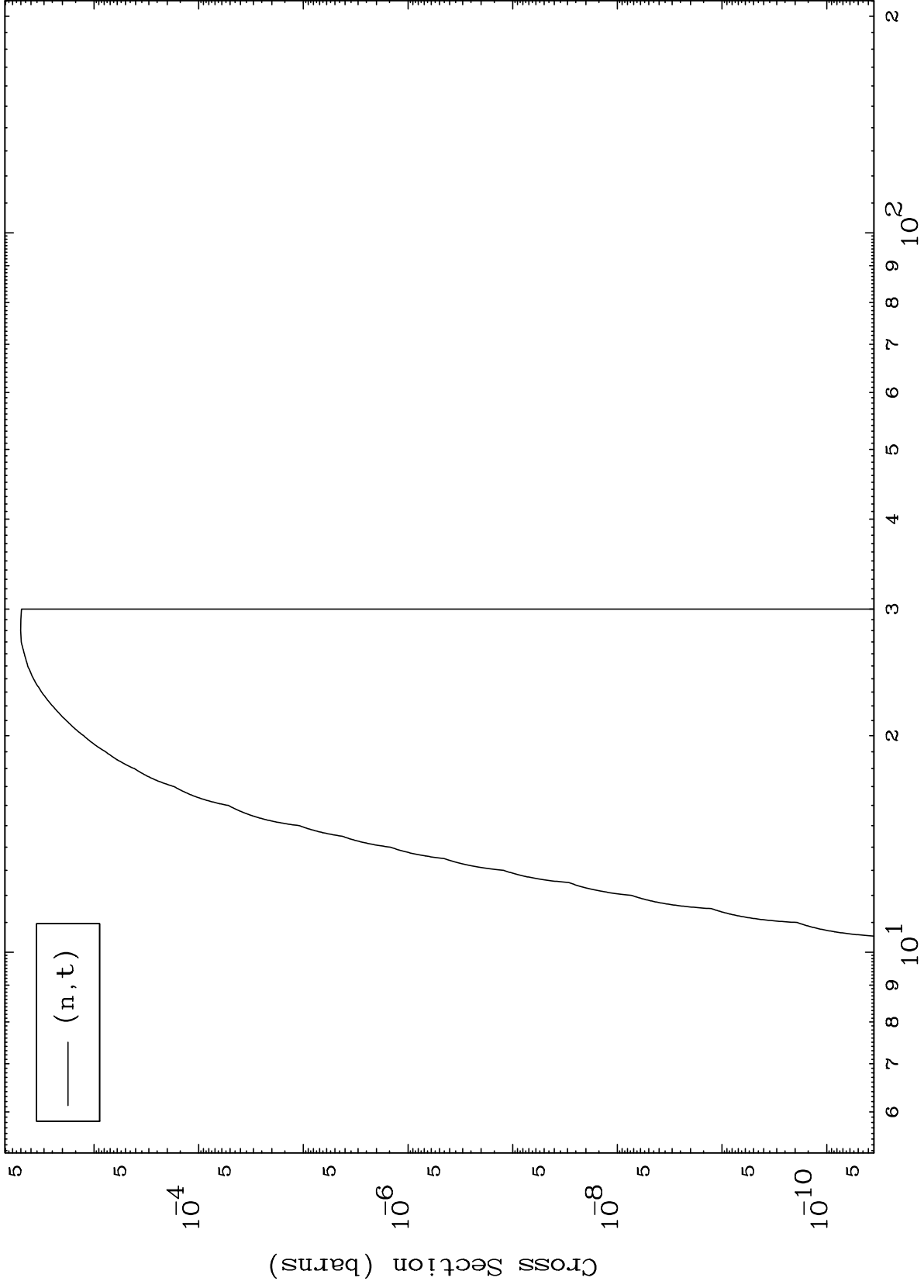
Incident Energy (MeV)

82-Pb-207

MAT 8234

(n,t) Levels  
293 Kelvin Cross Sections

82-Pb-207



14

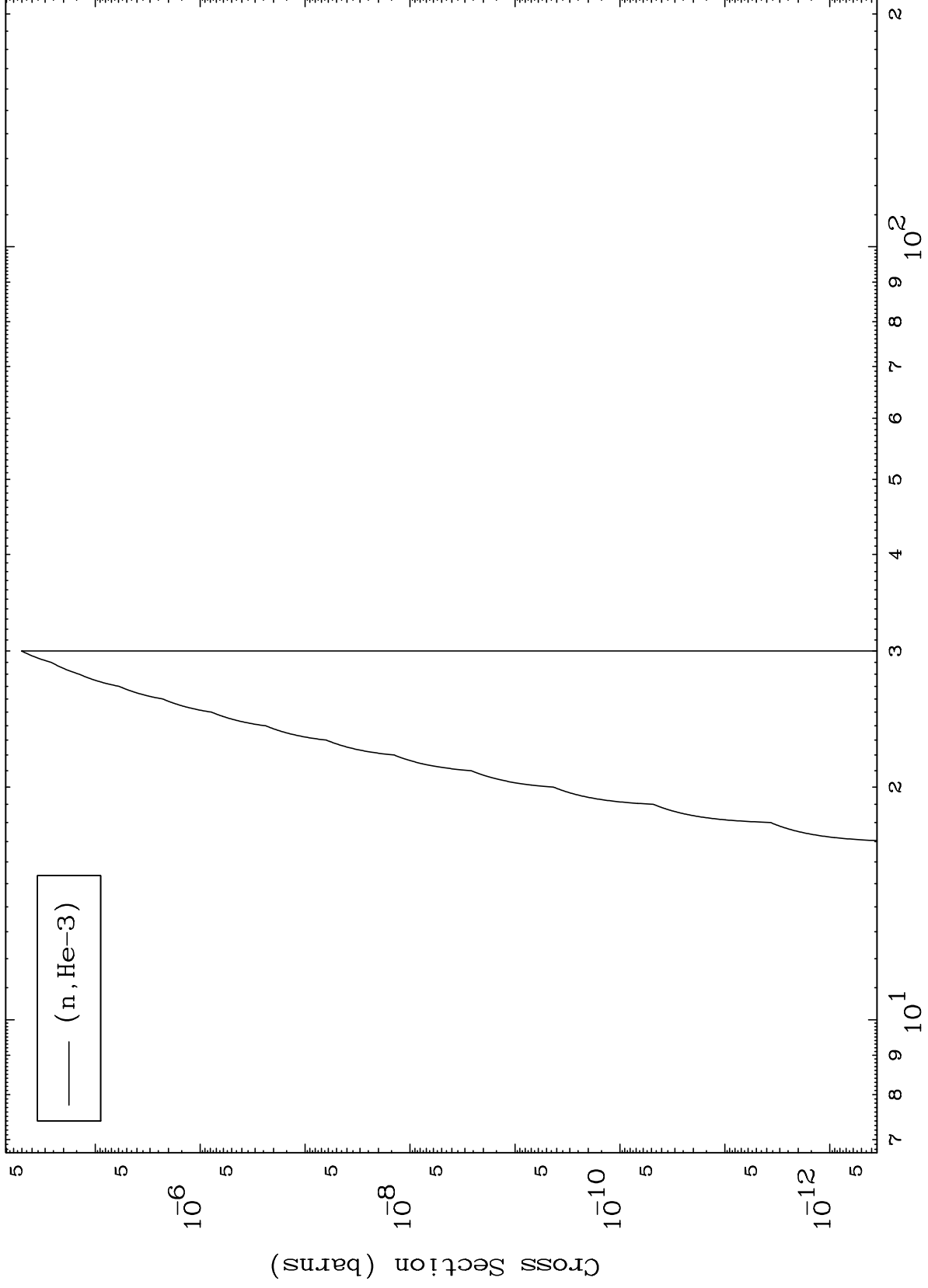
Incident Energy (MeV)

82-Pb-207

MAT 8234

(n,He3) Levels  
293 Kelvin Cross Sections

82-Pb-207



15

Incident Energy (MeV)

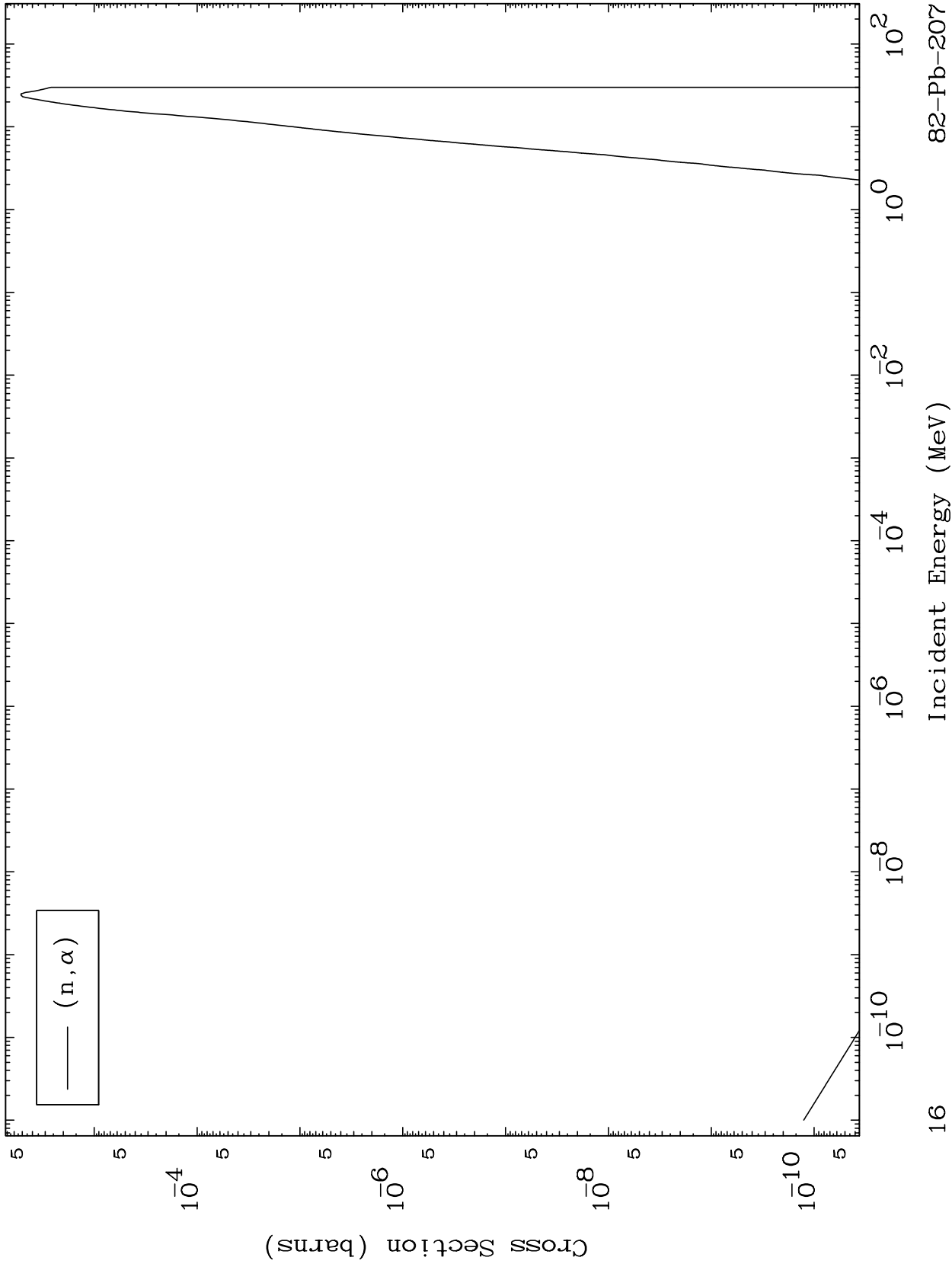
82-Pb-207

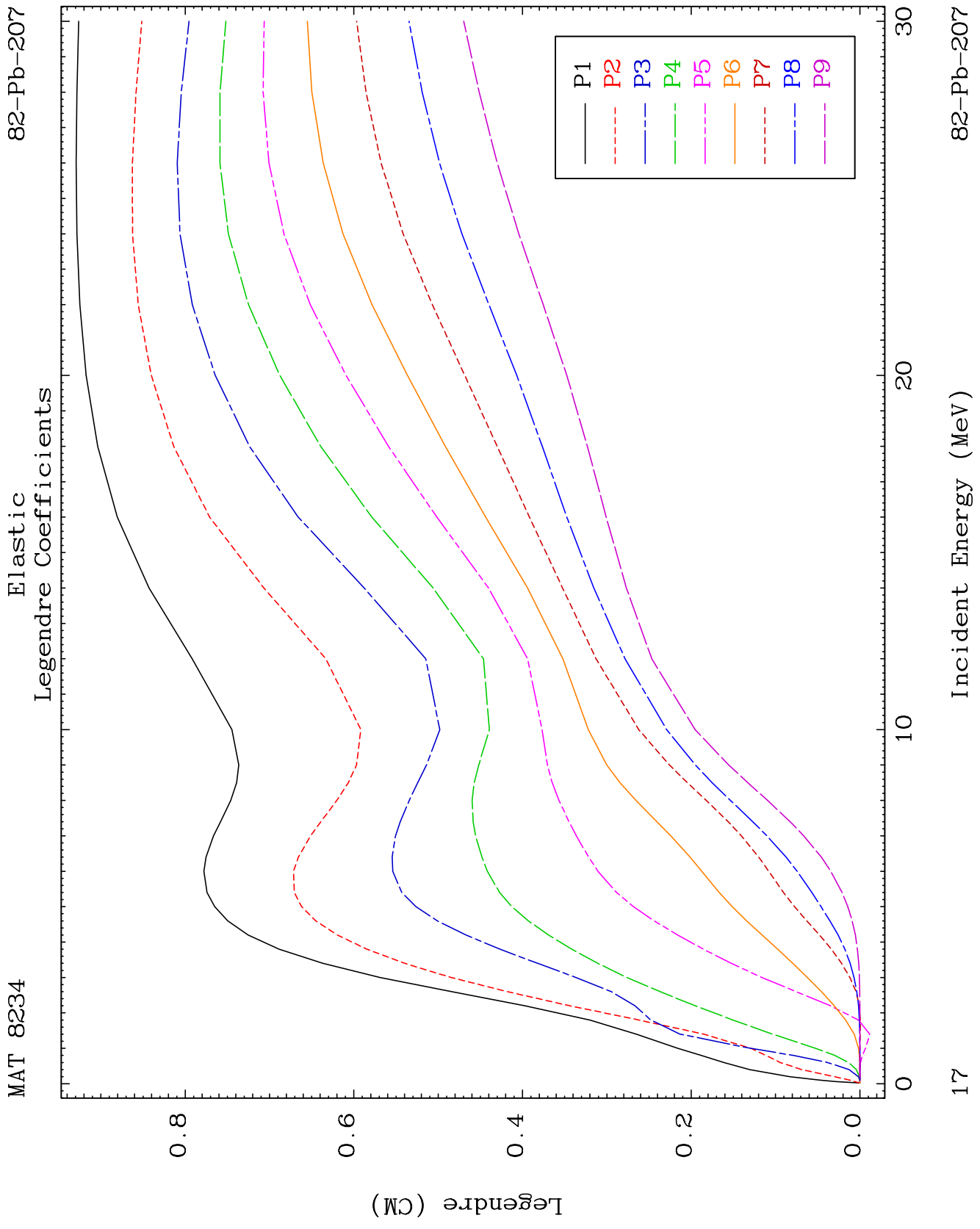


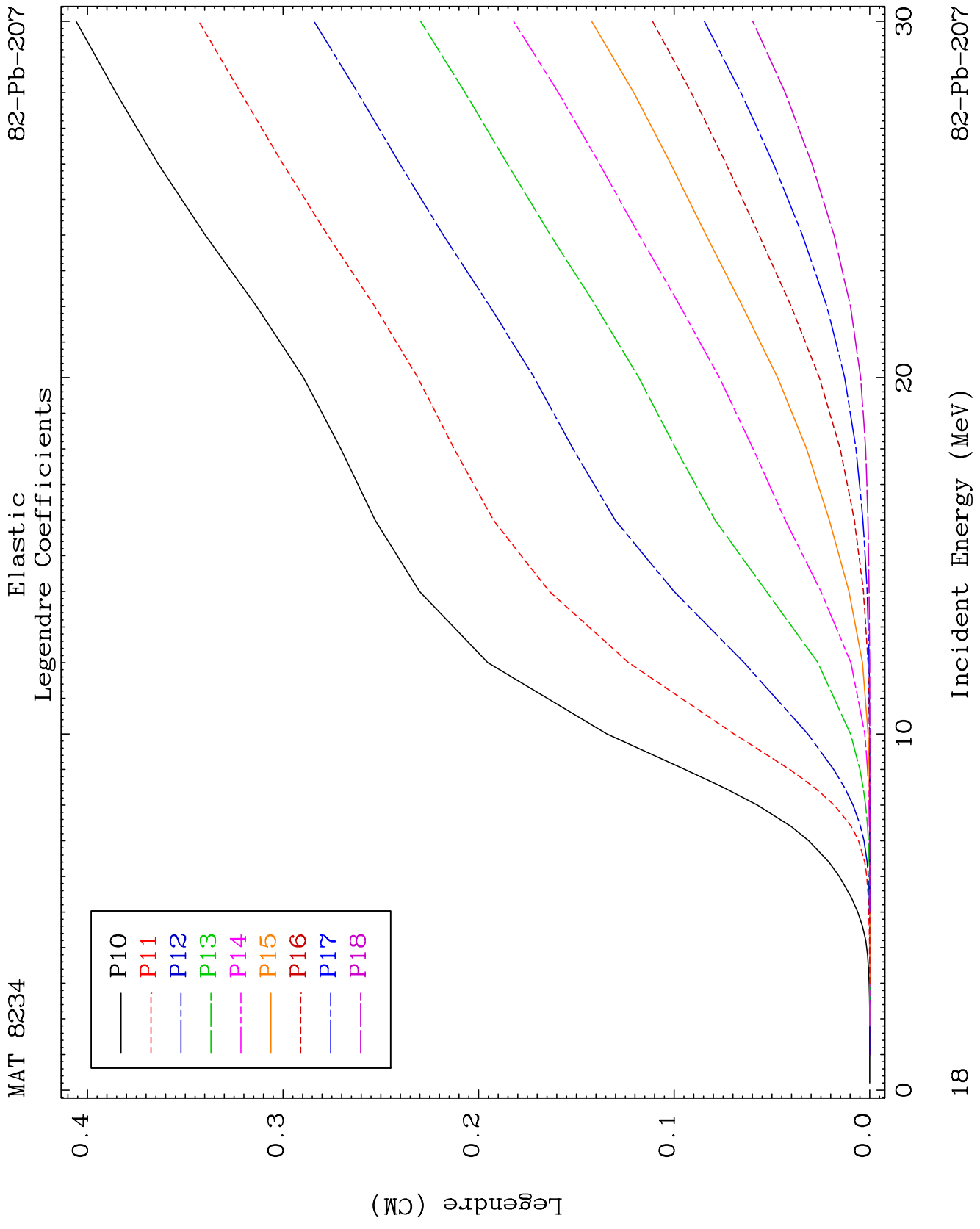
MAT 8234

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

82-Pb-207



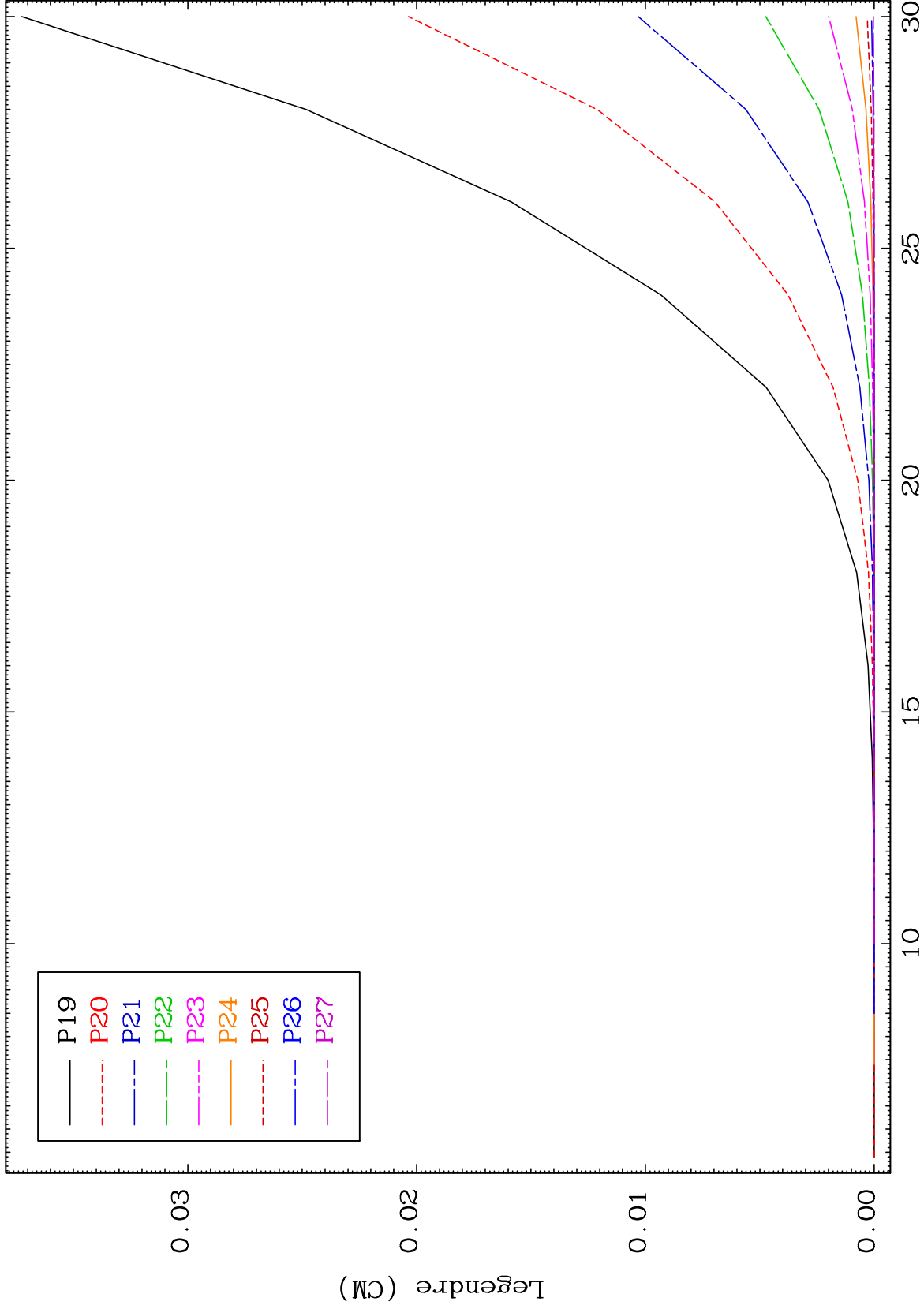




MAT 8234

### Elastic Legendre Coefficients

82-Pb-207



19

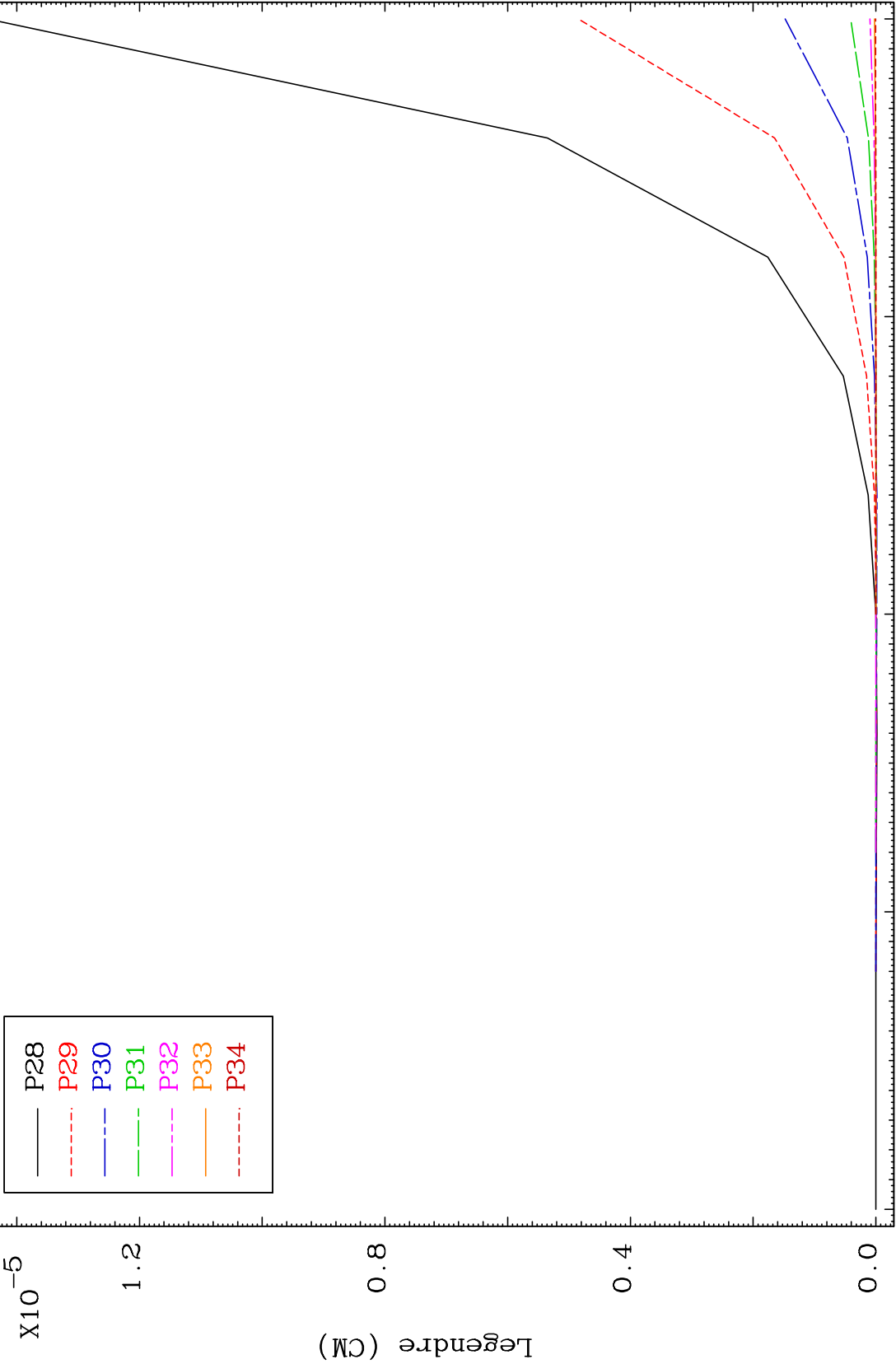
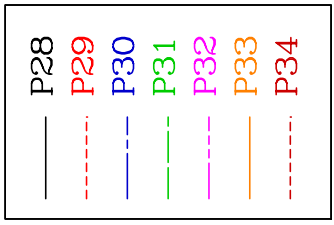
Incident Energy (MeV)

82-Pb-207

MAT 8234

Elastic  
Legendre Coefficients

82-Pb-207



82-Pb-207

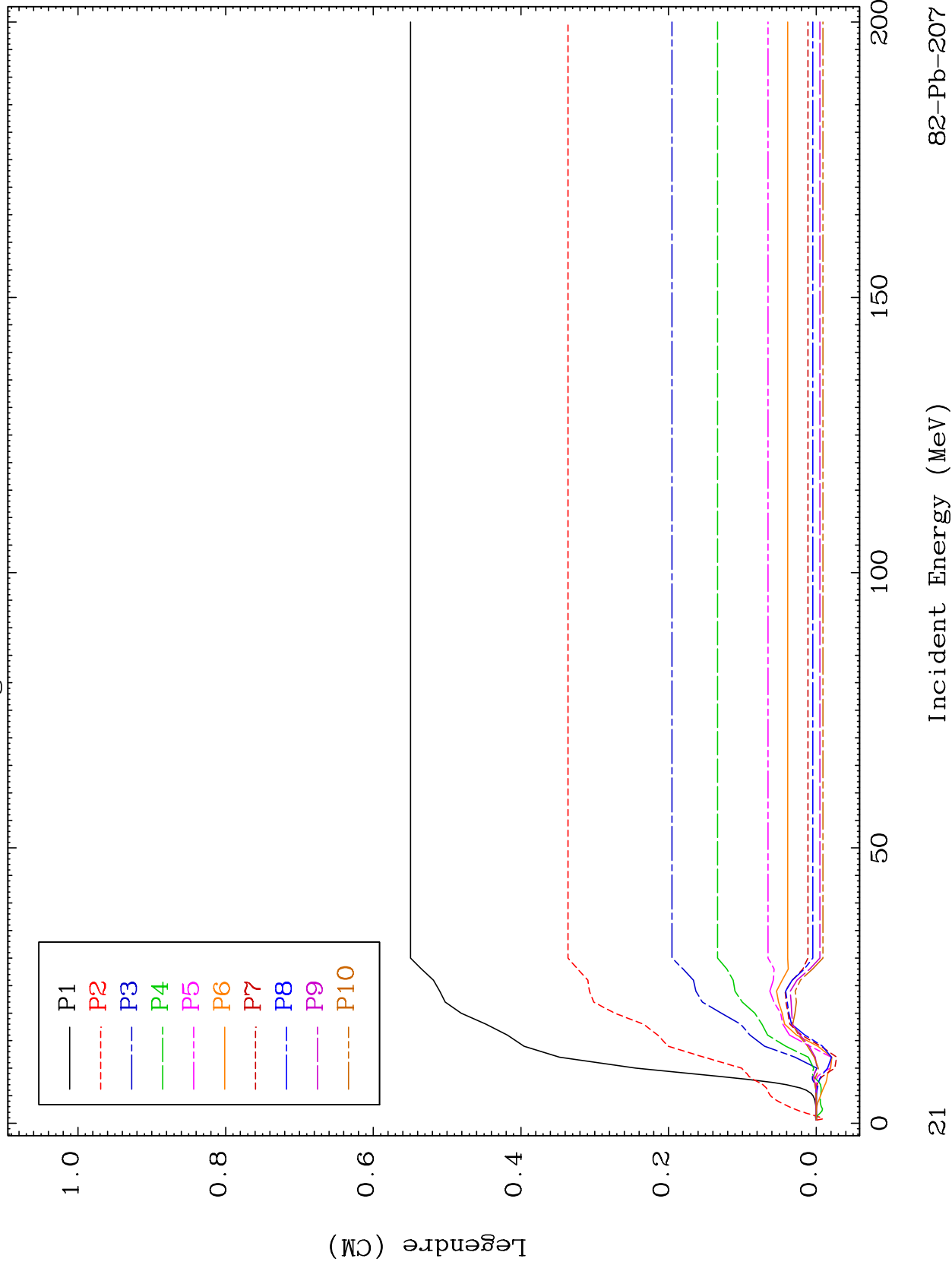
Incident Energy (MeV)

20

MAT 8234

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

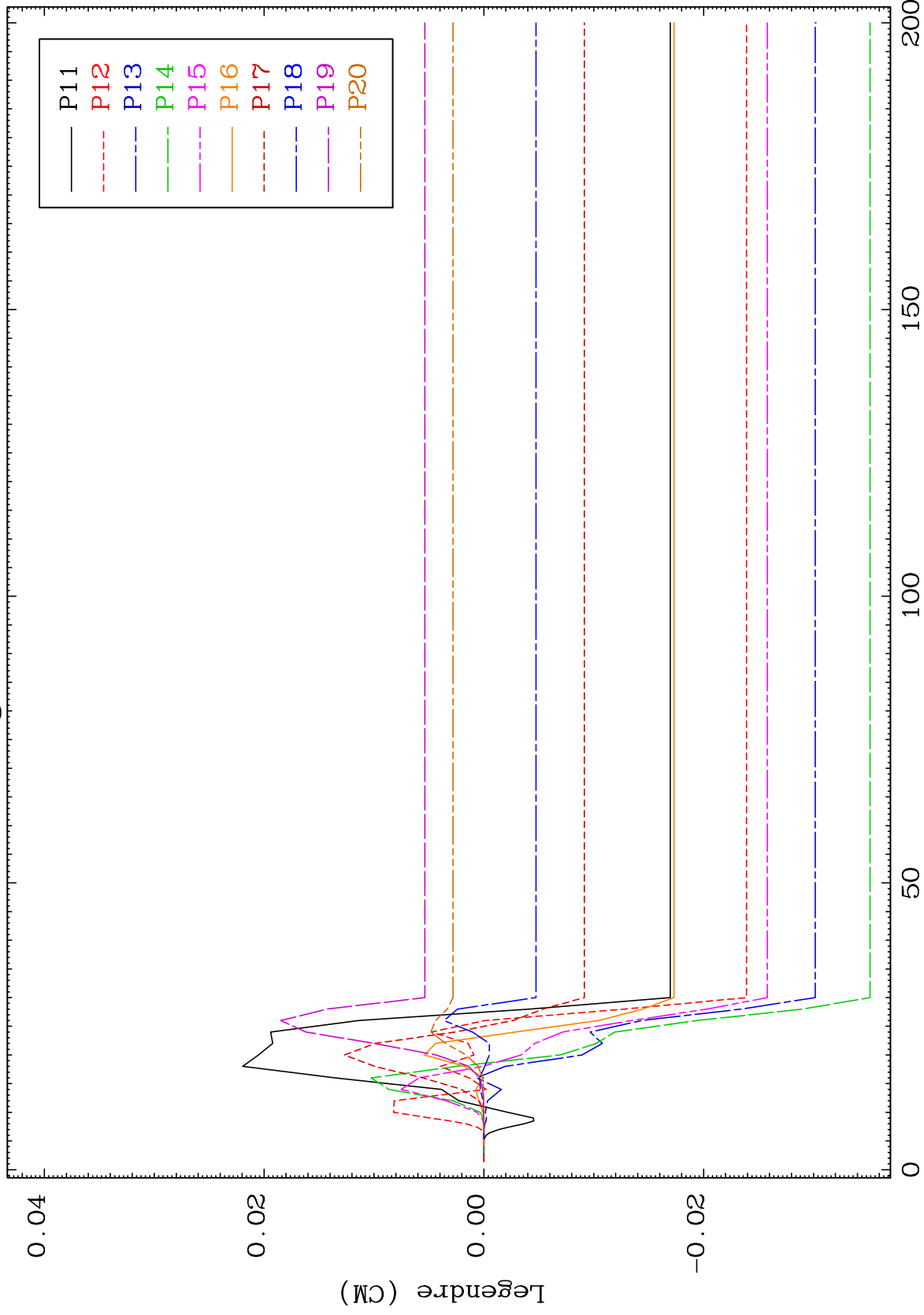
82-Pb-207



MAT 8234

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

82-Pb-207



22

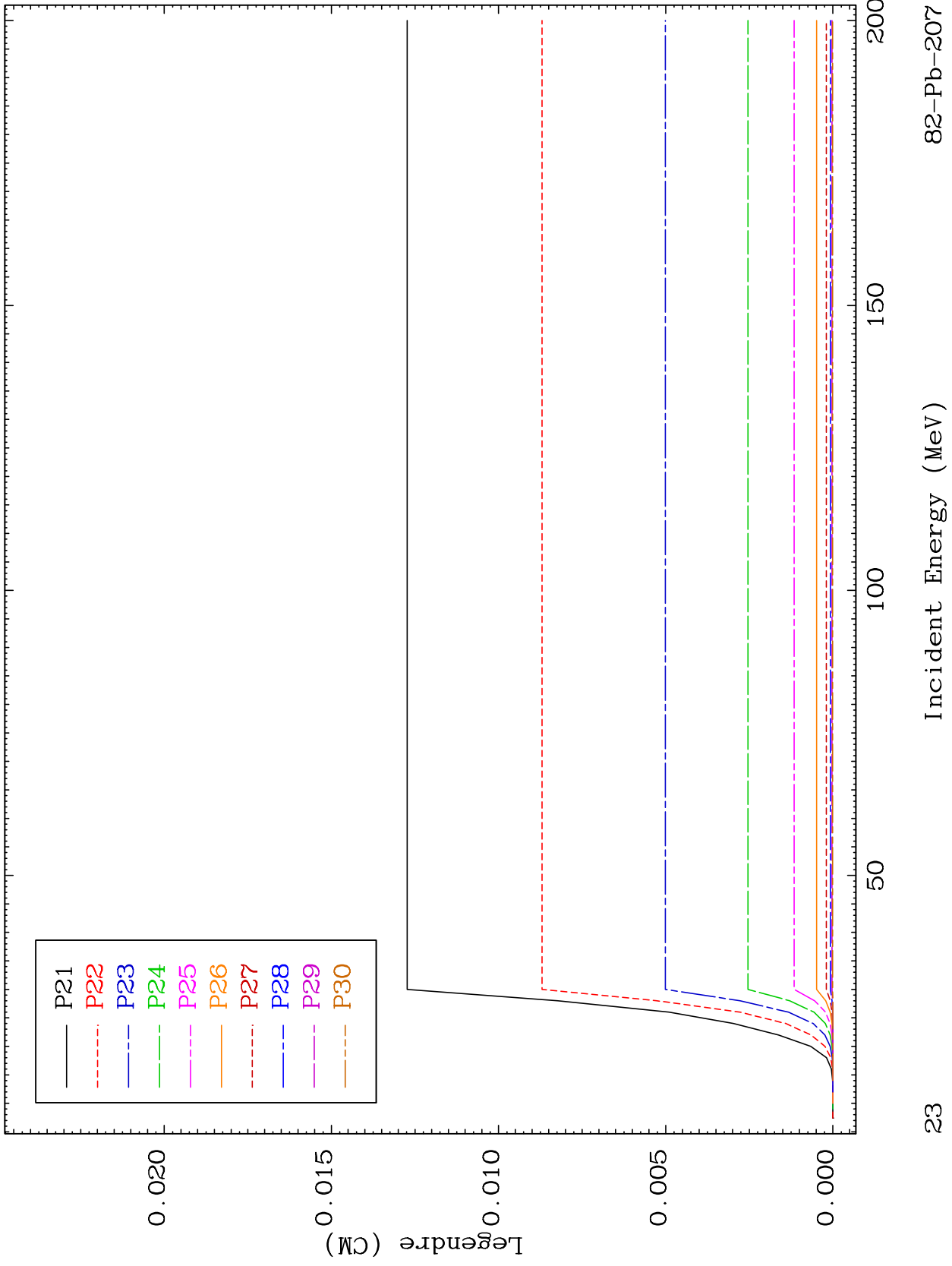
Incident Energy (MeV)

82-Pb-207

MAT 8234

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

82-Pb-207

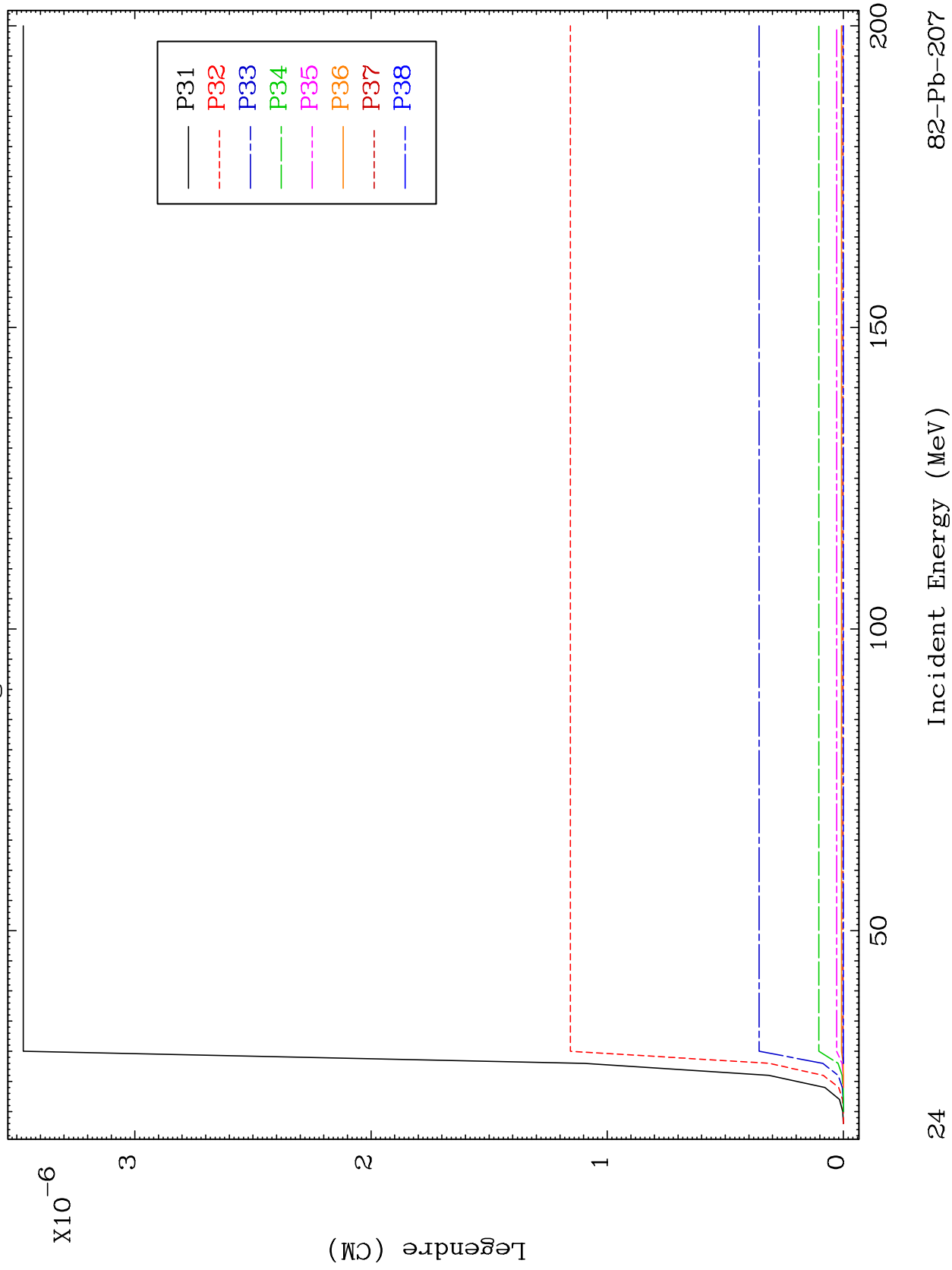




MAT 8234

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

82-Pb-207



24

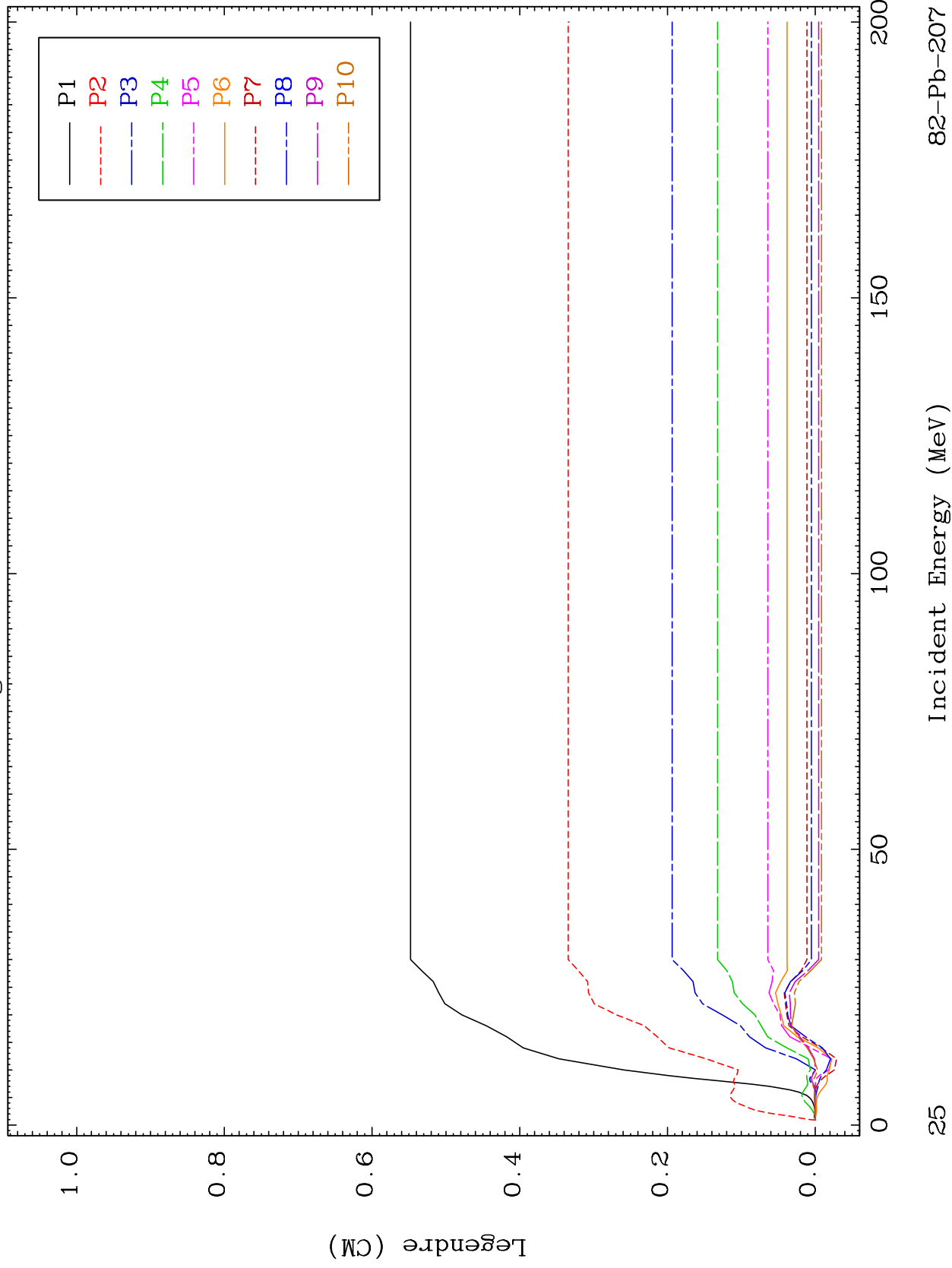
Incident Energy (MeV)

82-Pb-207

MAT 8234

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

82-Pb-207



82-Pb-207

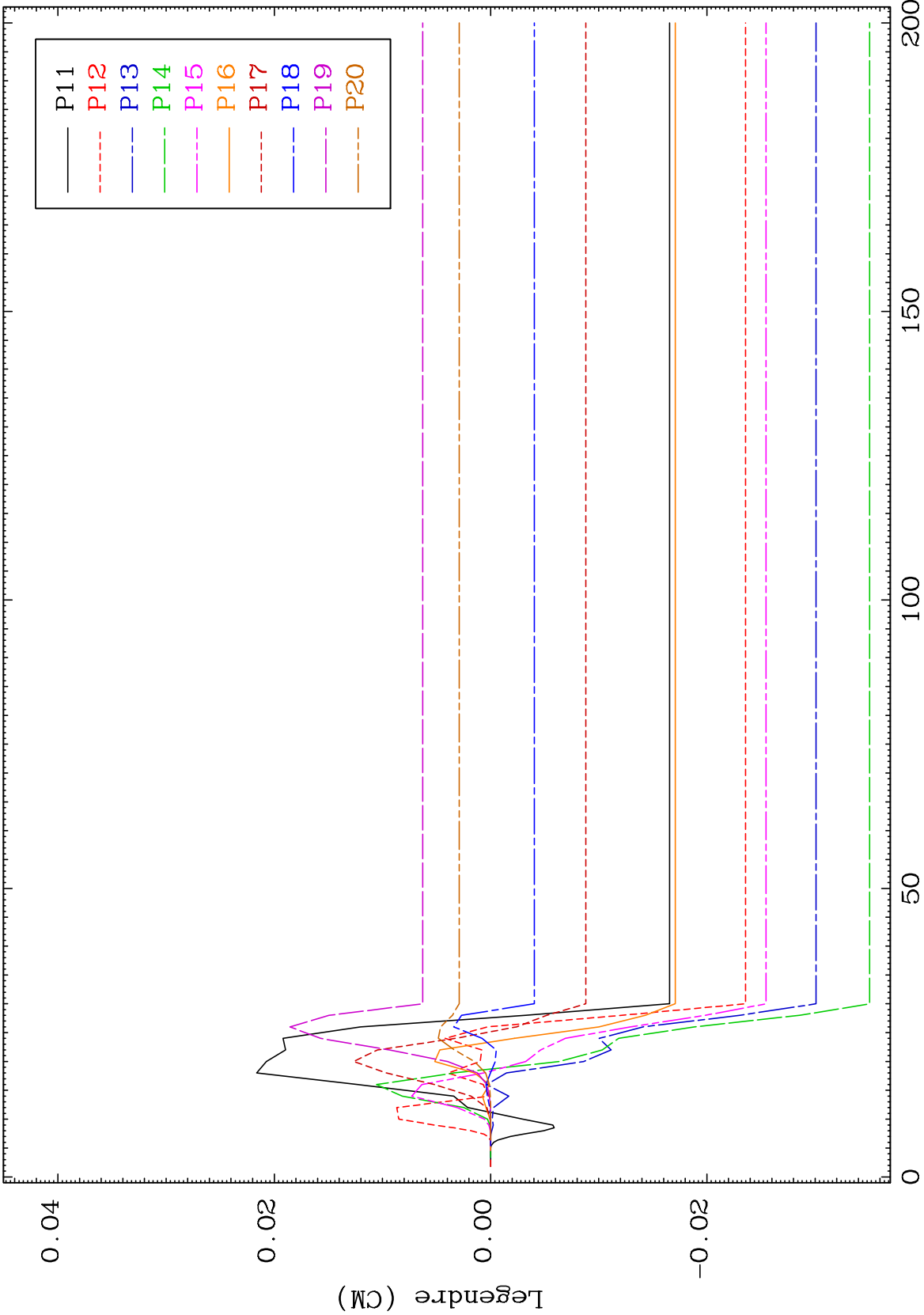
Incident Energy (MeV)

25

MAT 8234

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

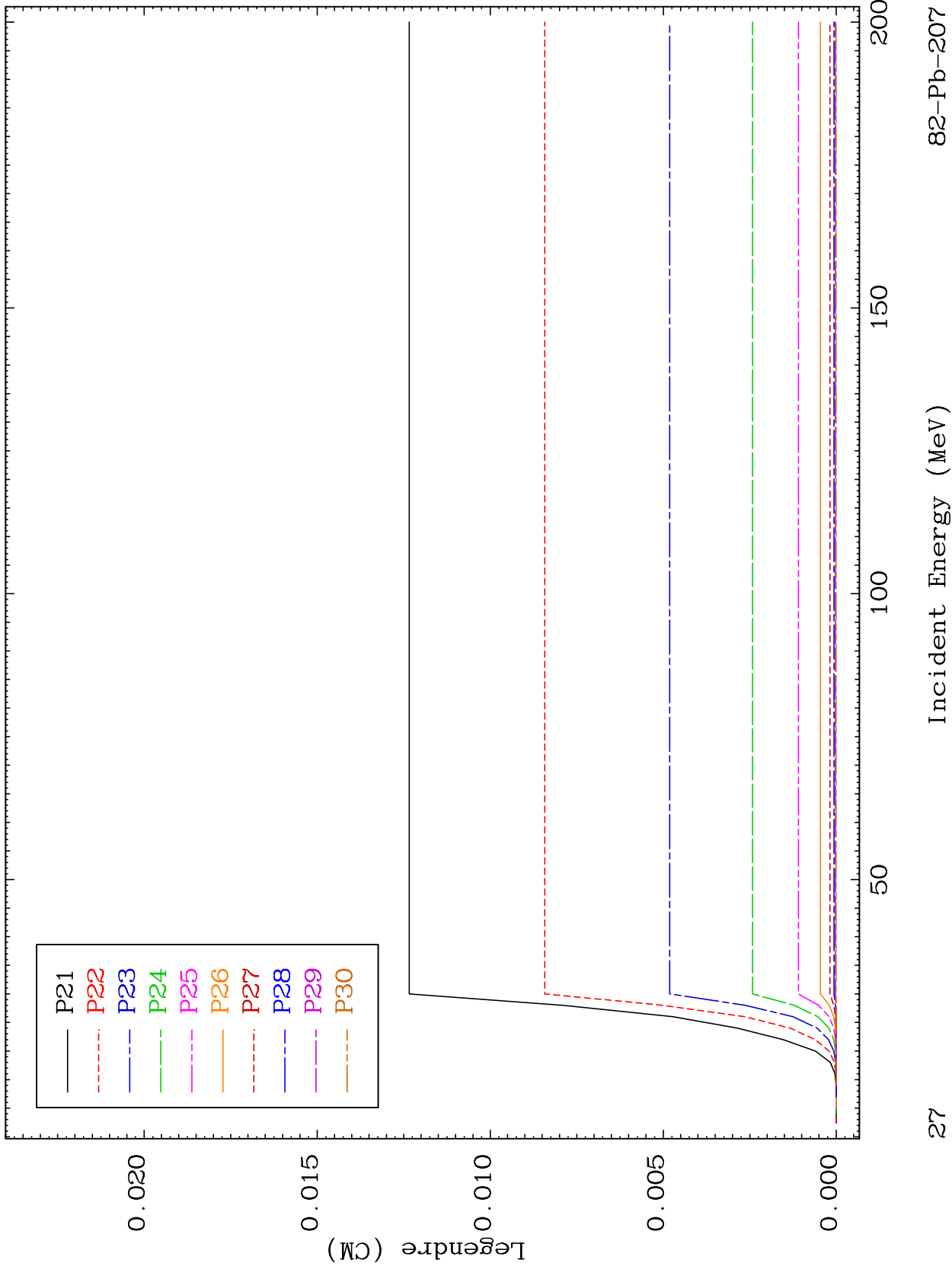
82-Pb-207



26

Incident Energy (MeV)

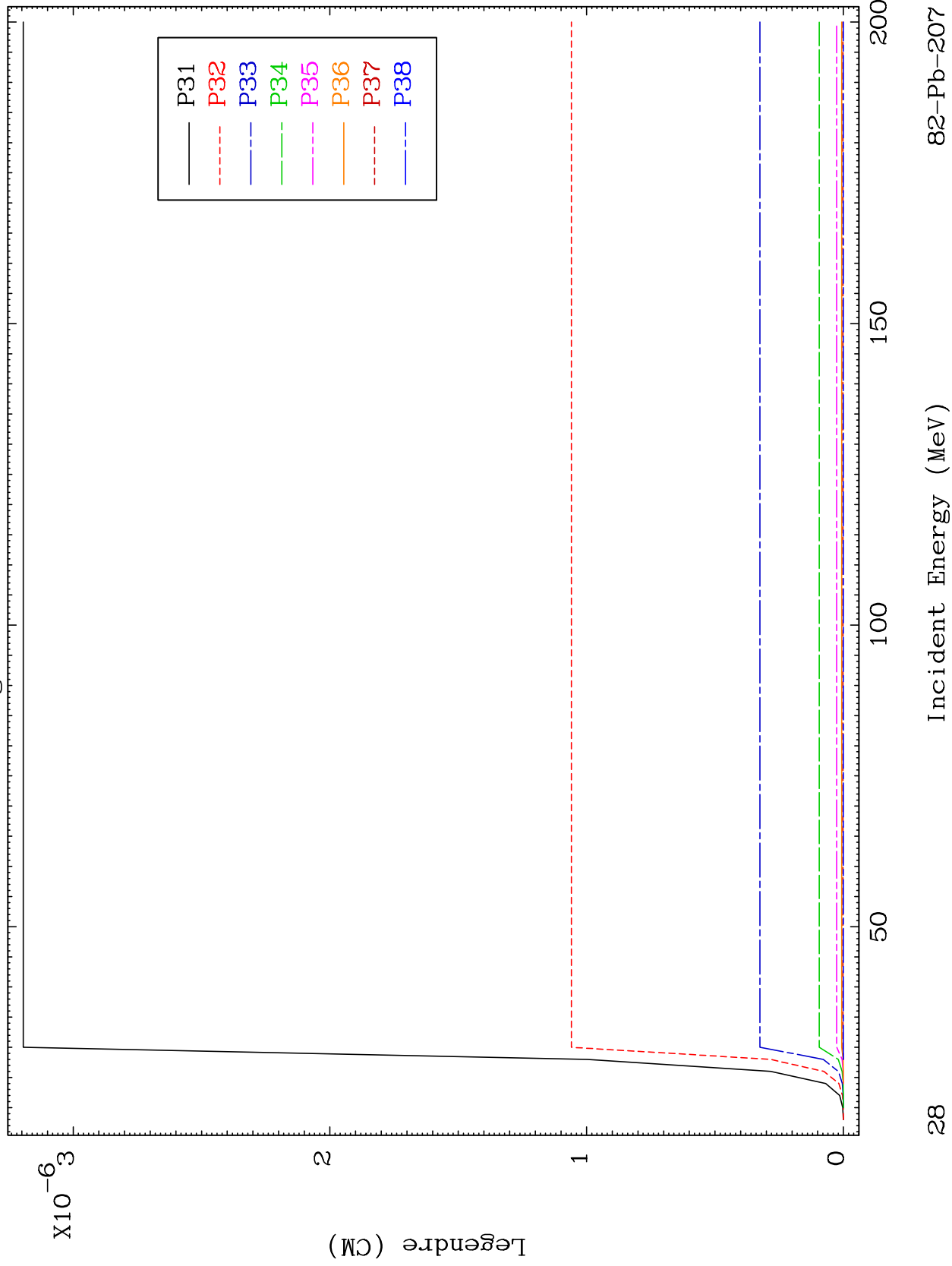
82-Pb-207



MAT 8234

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

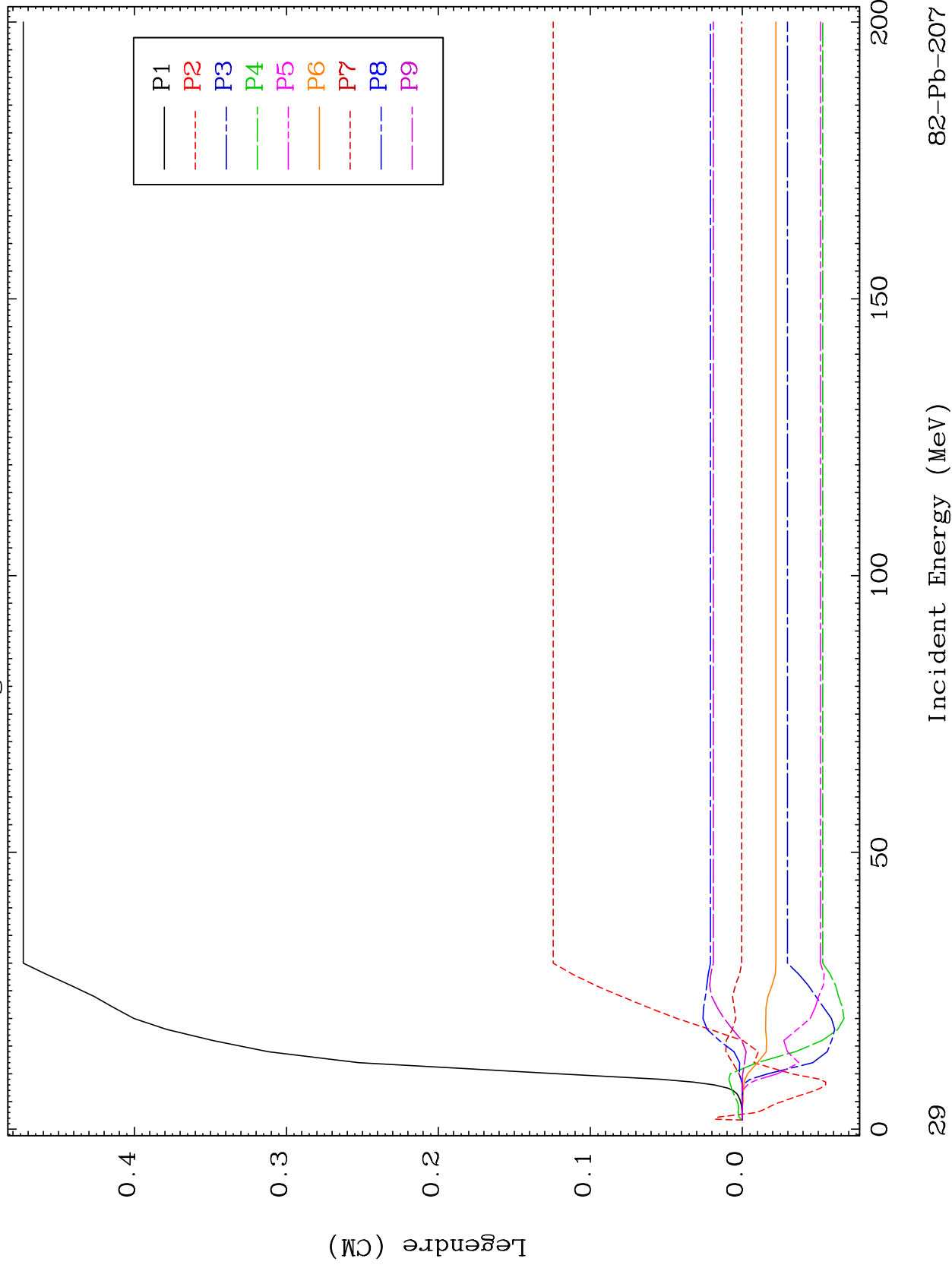
82-Pb-207



MAT 8234

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

82-Pb-207



29

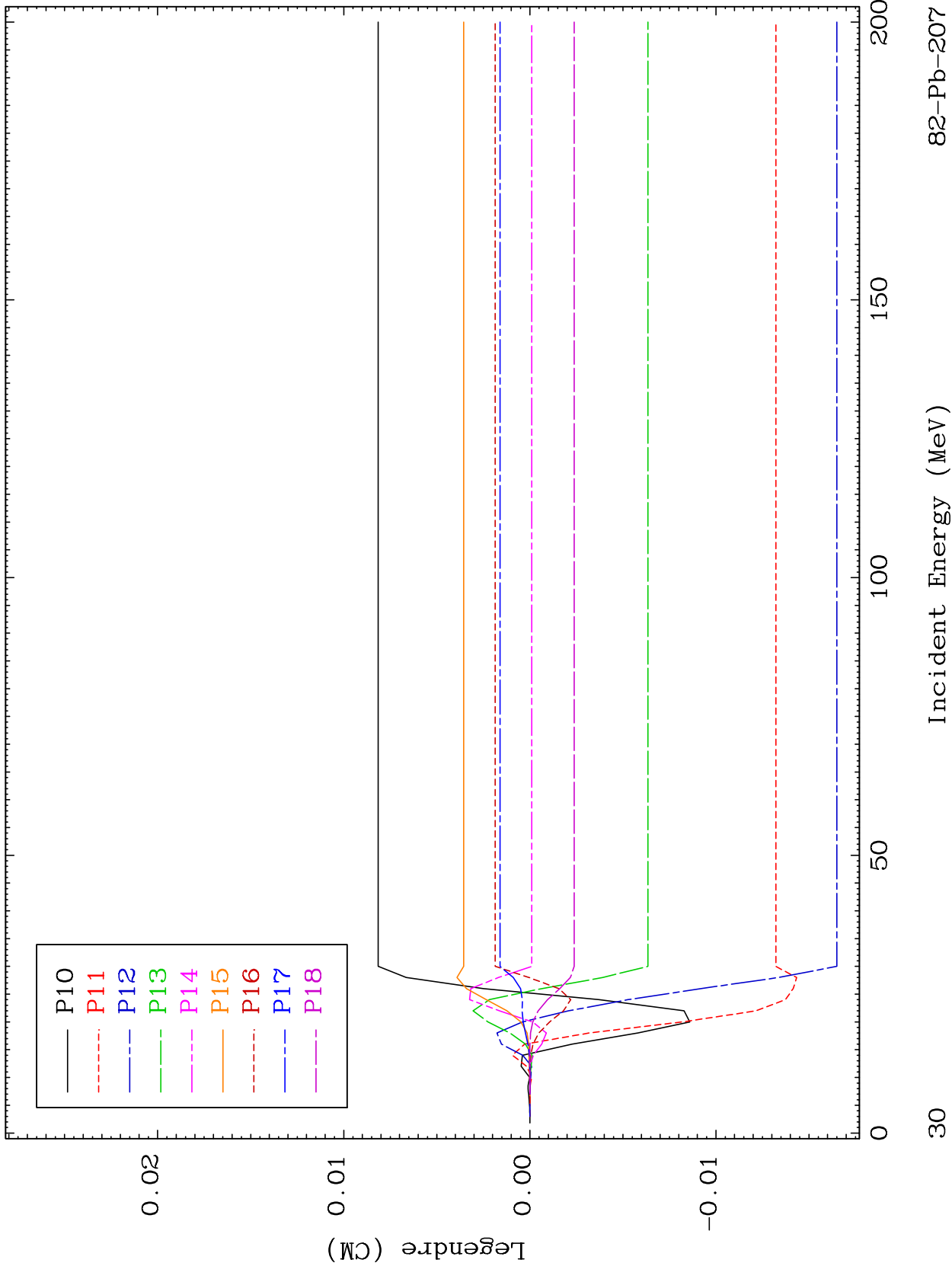
Incident Energy (MeV)

82-Pb-207

MAT 8234

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

82-Pb-207



82-Pb-207

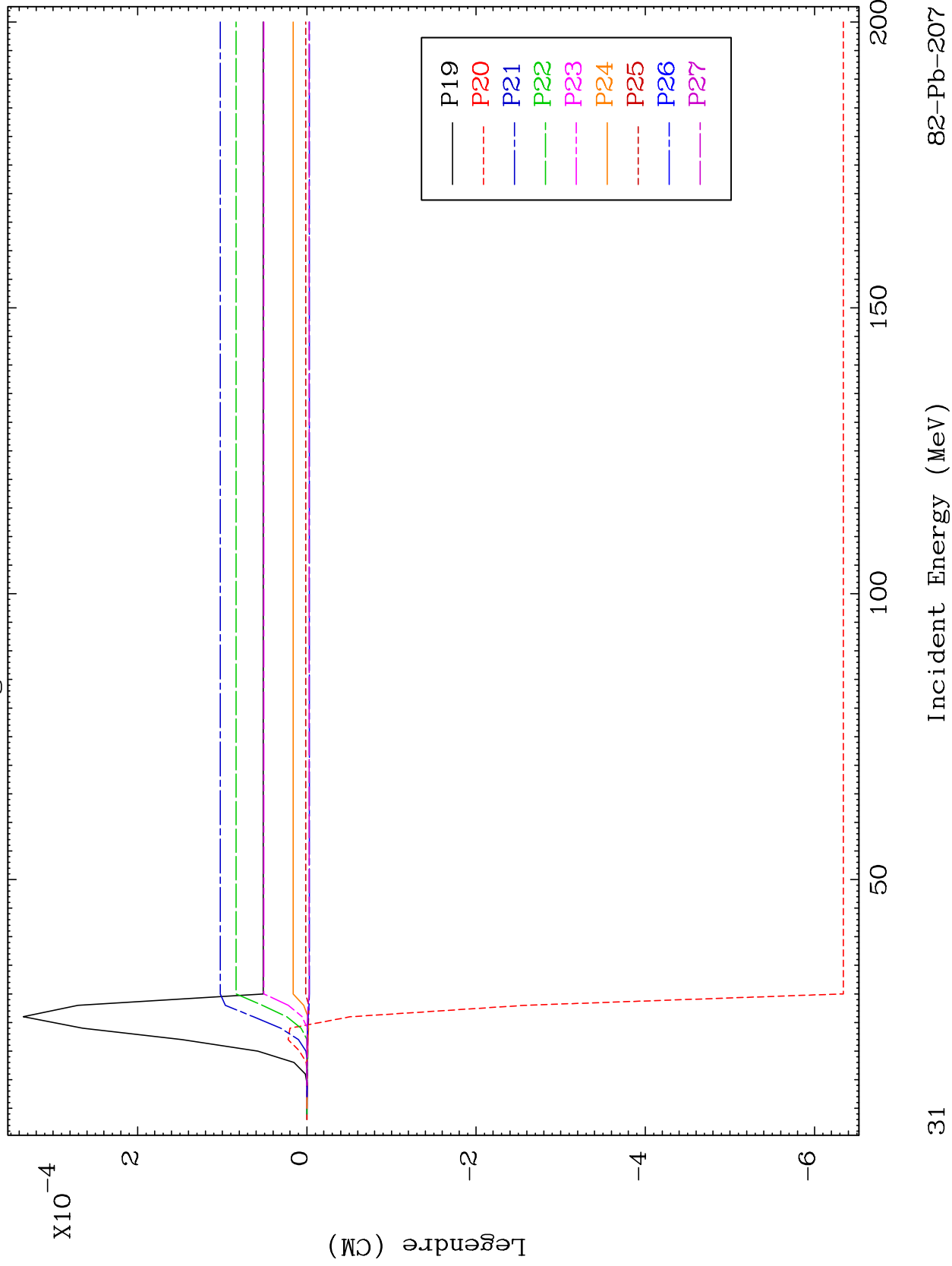
Incident Energy (MeV)

30

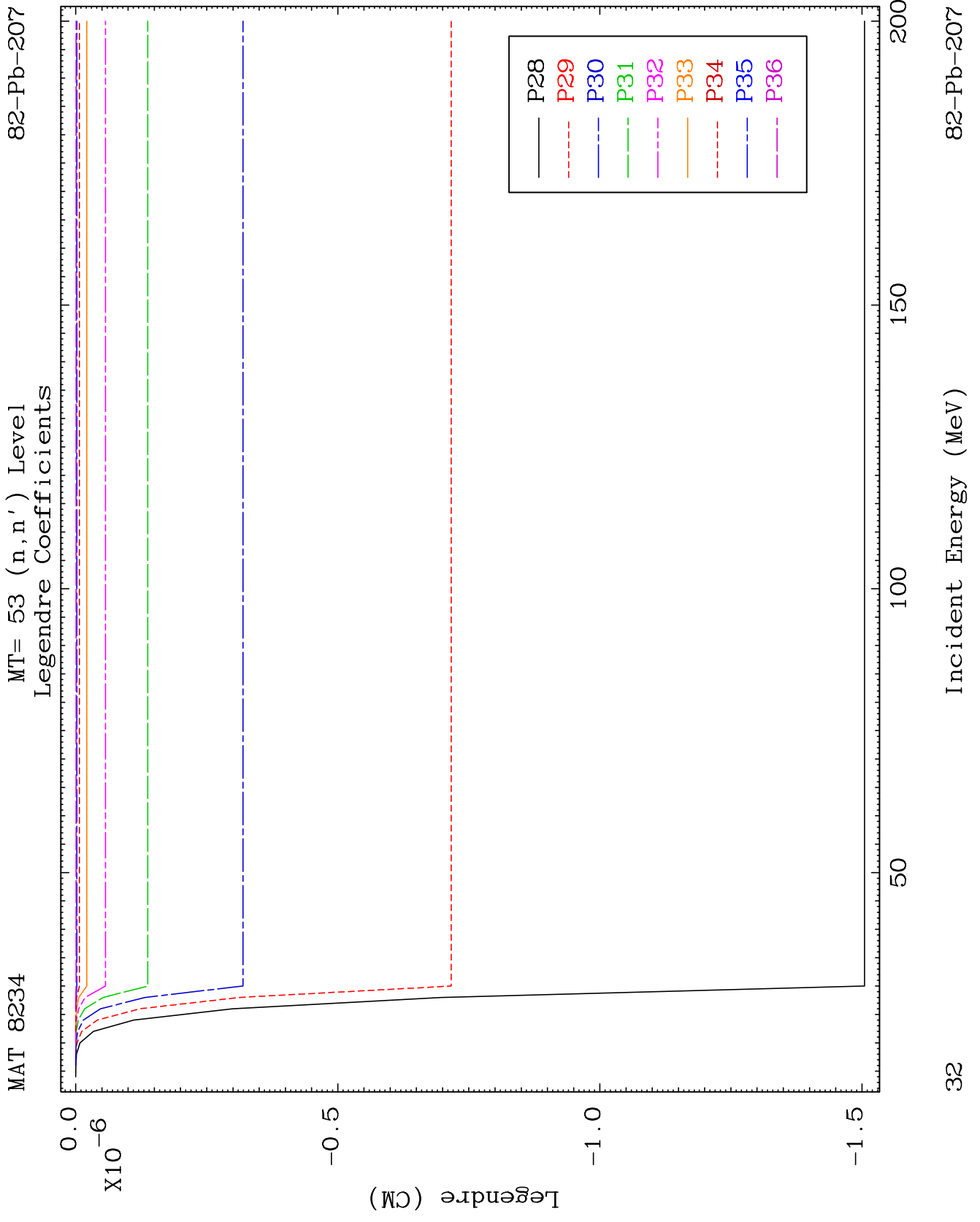
MAT 8234

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

82-Pb-207



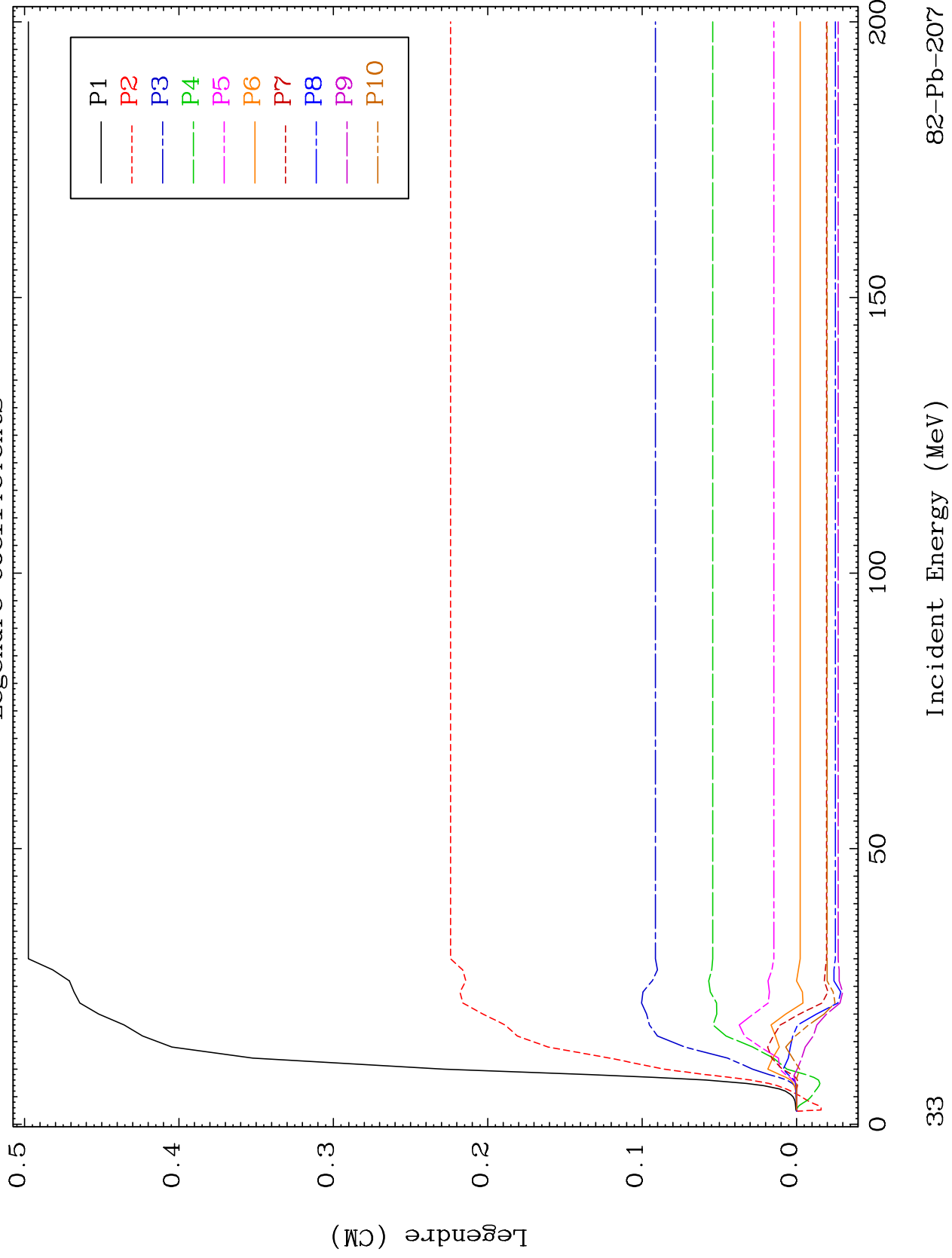




MAT 8234

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

82-Pb-207



82-Pb-207

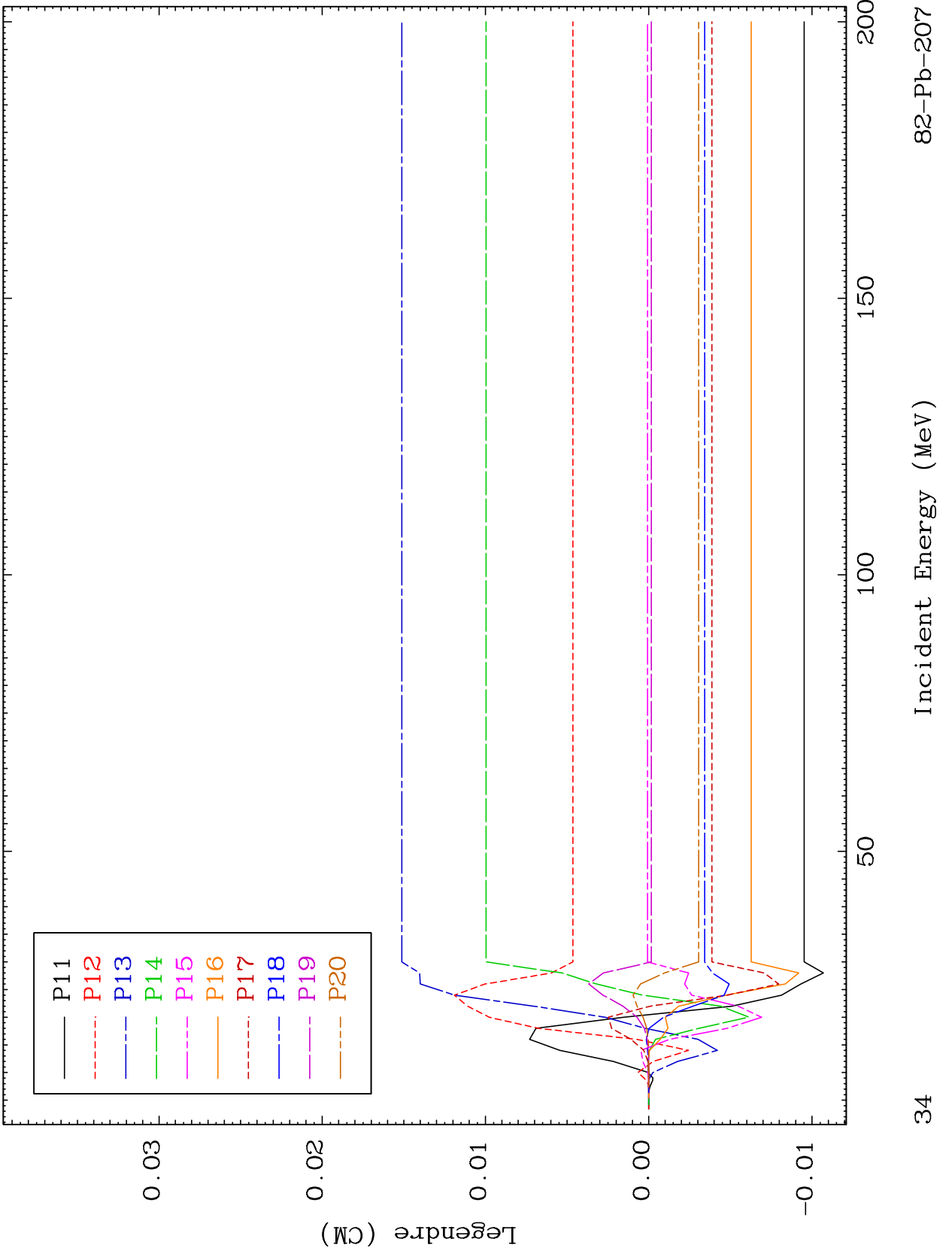
Incident Energy (MeV)

33

MAT 8234

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

82-Pb-207



34

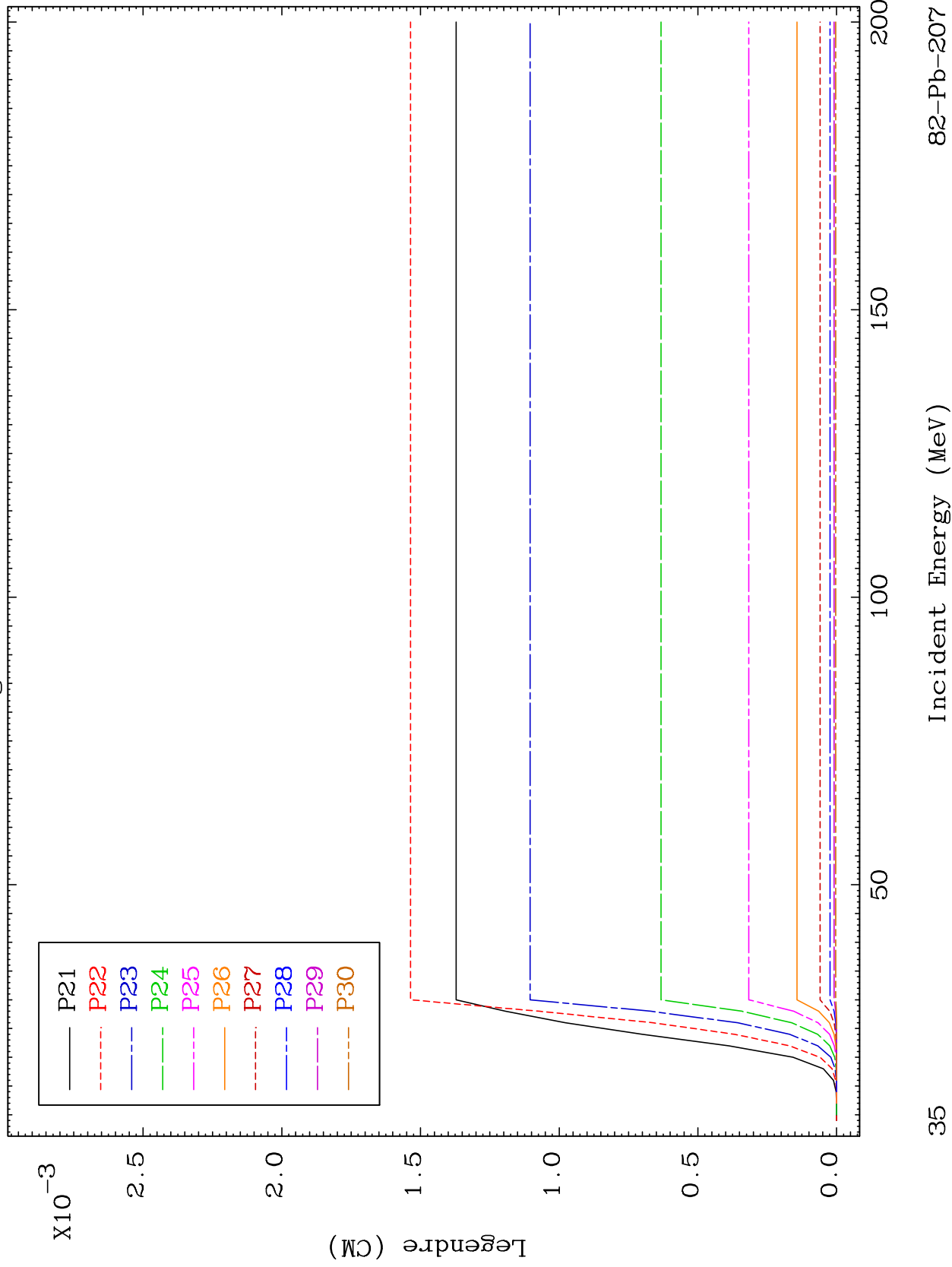
Incident Energy (MeV)

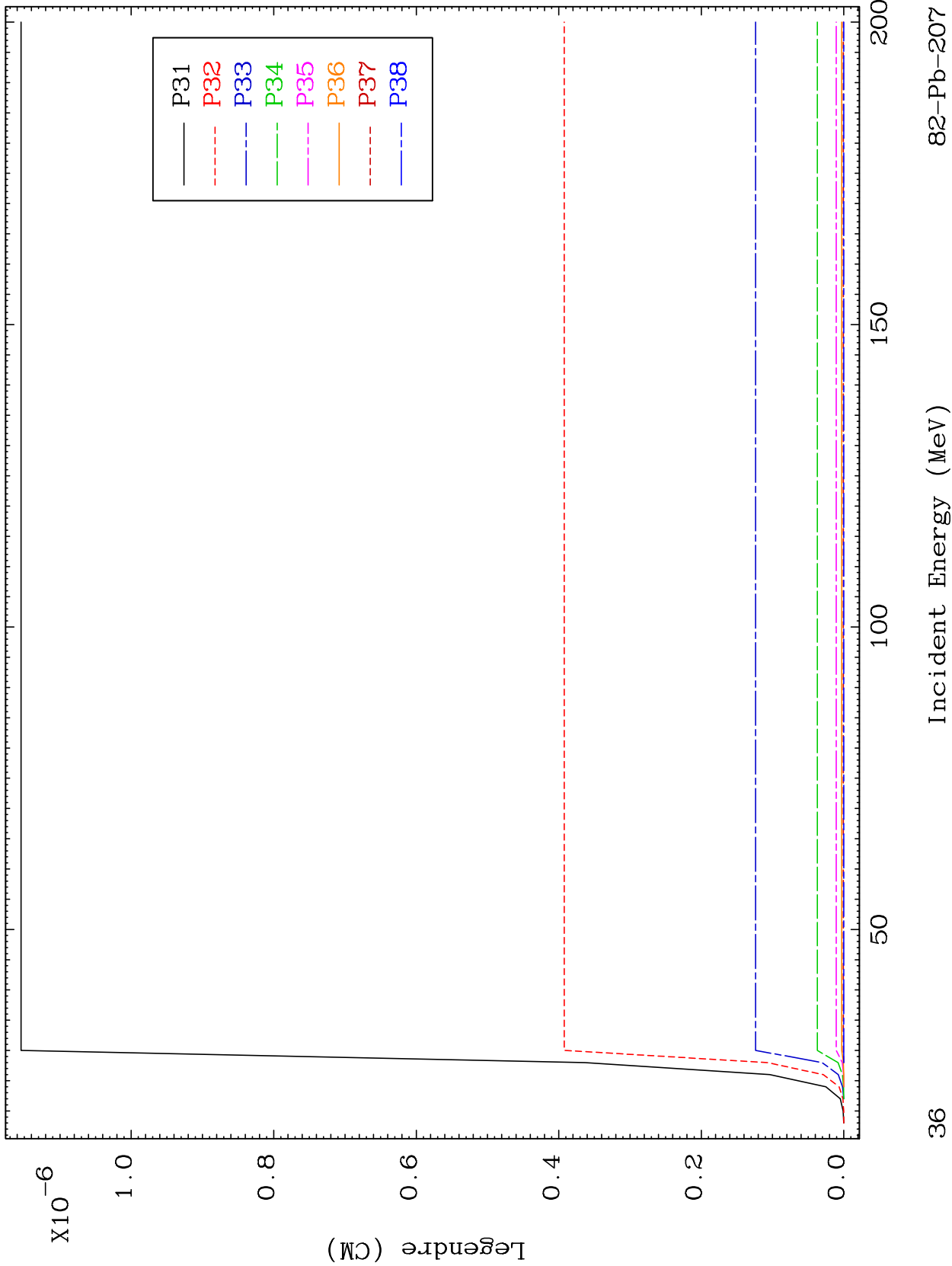
82-Pb-207

MAT 8234

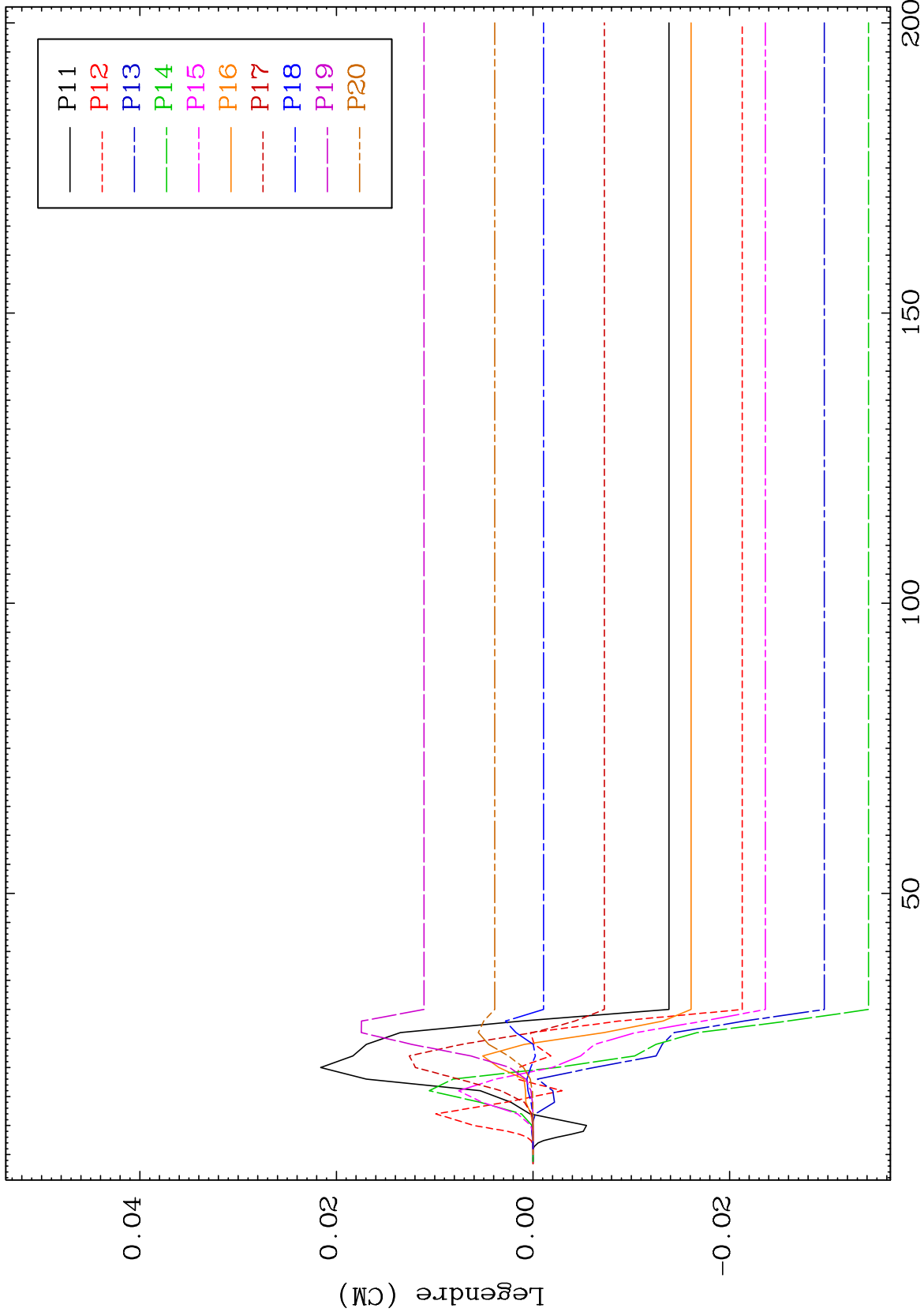
MT= 54 (n,n') Level  
Legendre Coefficients

82-Pb-207





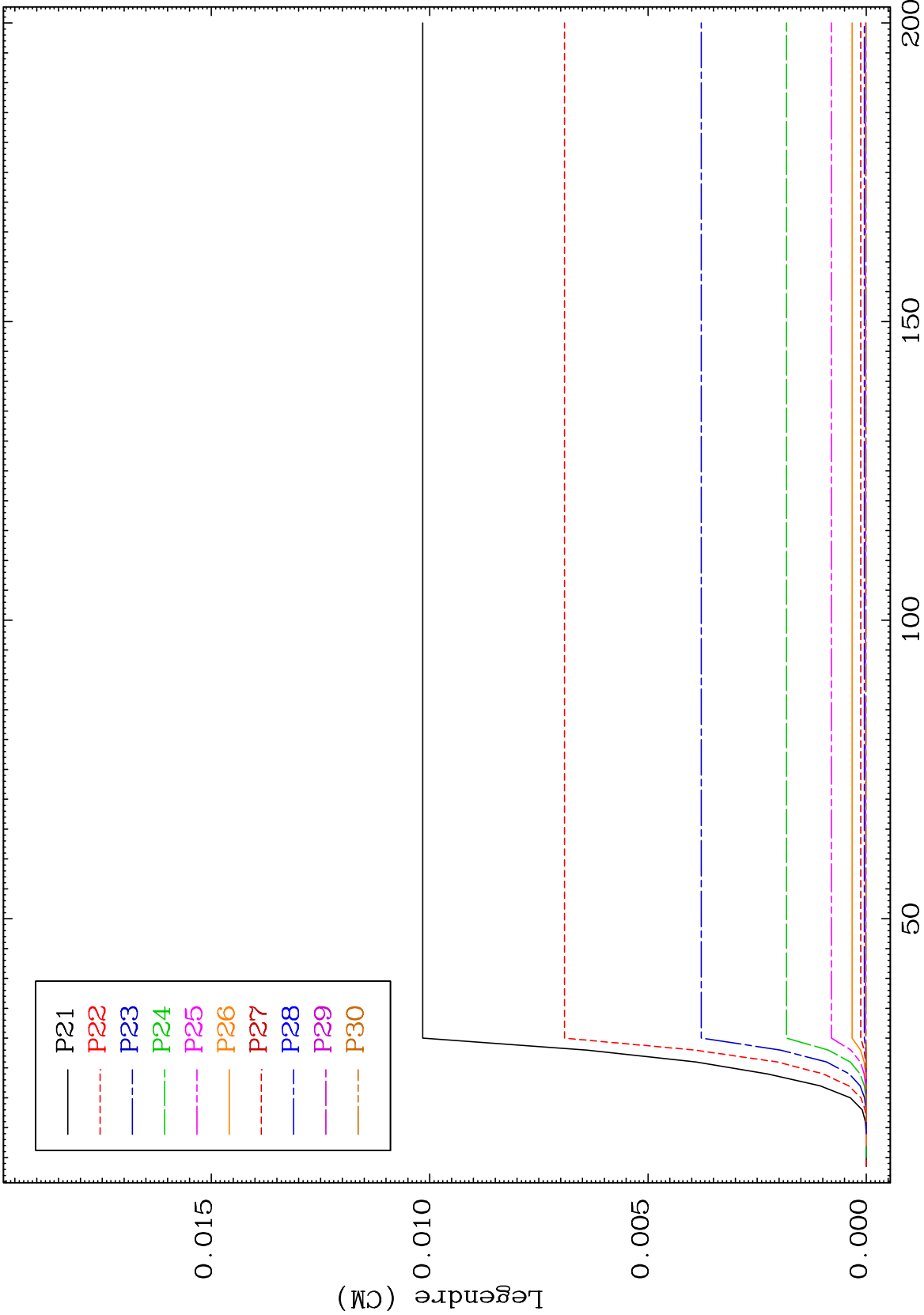




MAT 8234

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

82-Pb-207



39

Incident Energy (MeV)

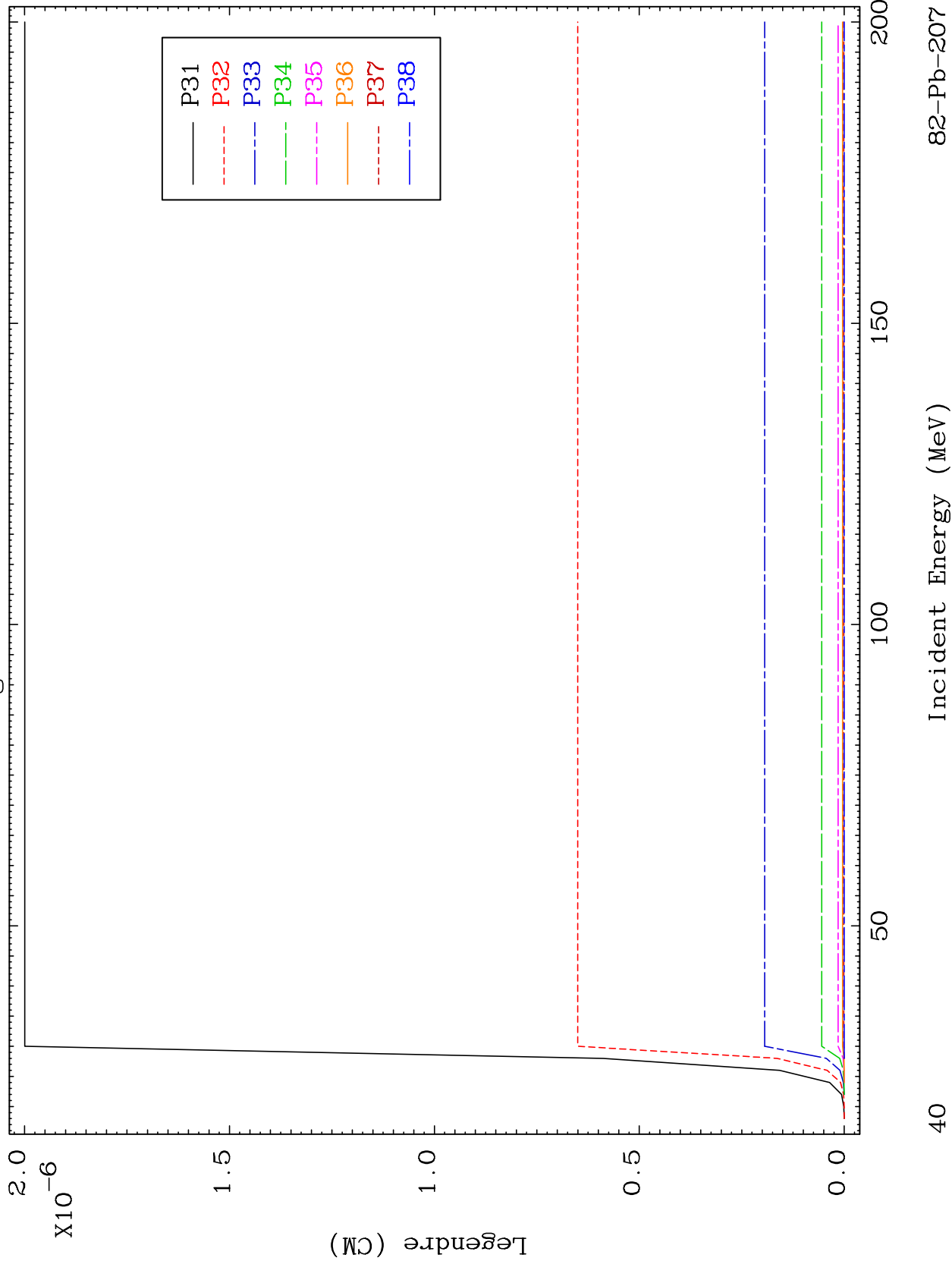
82-Pb-207



MAT 8234

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

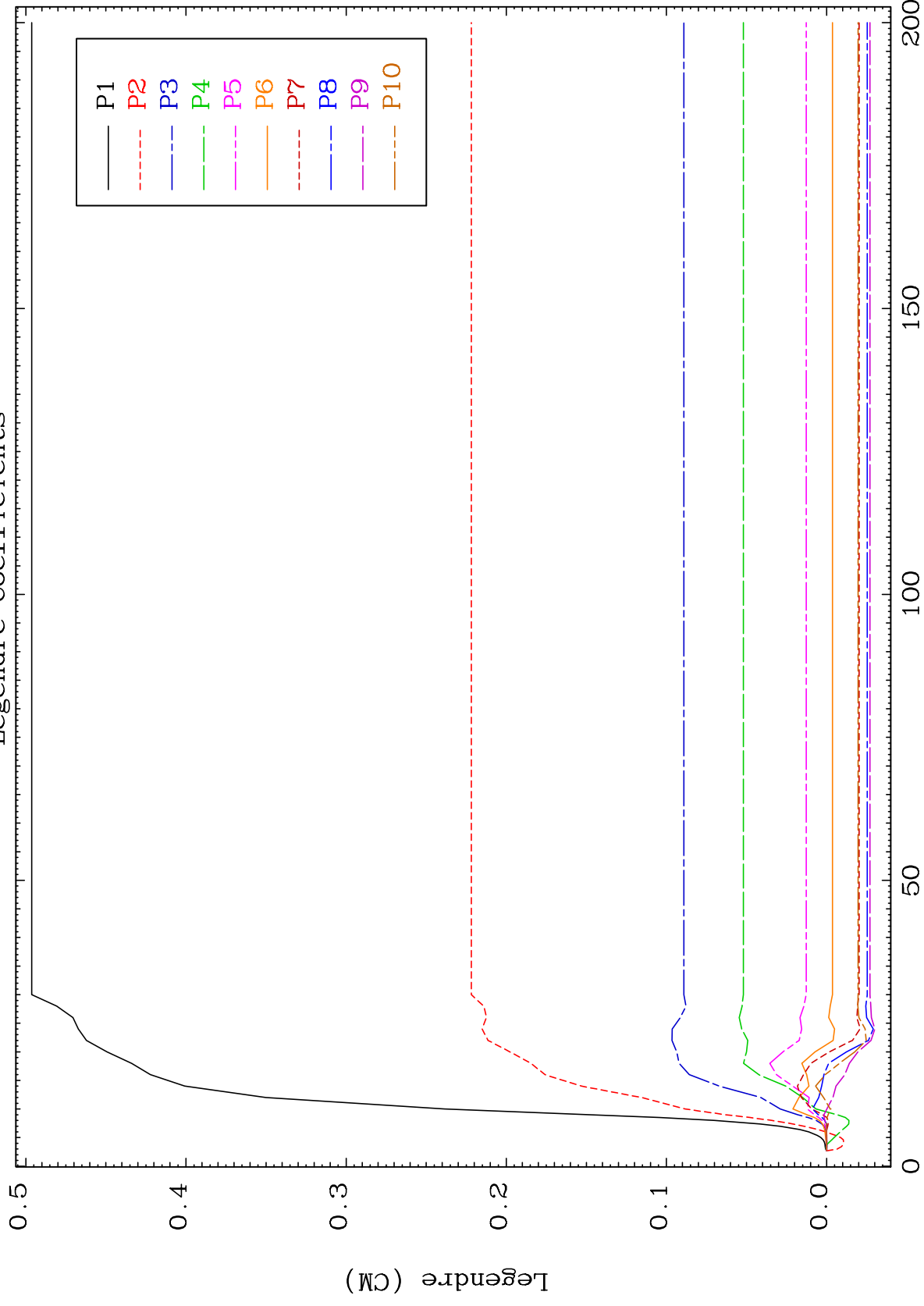
82-Pb-207



MAT 8234

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

82-Pb-207



41

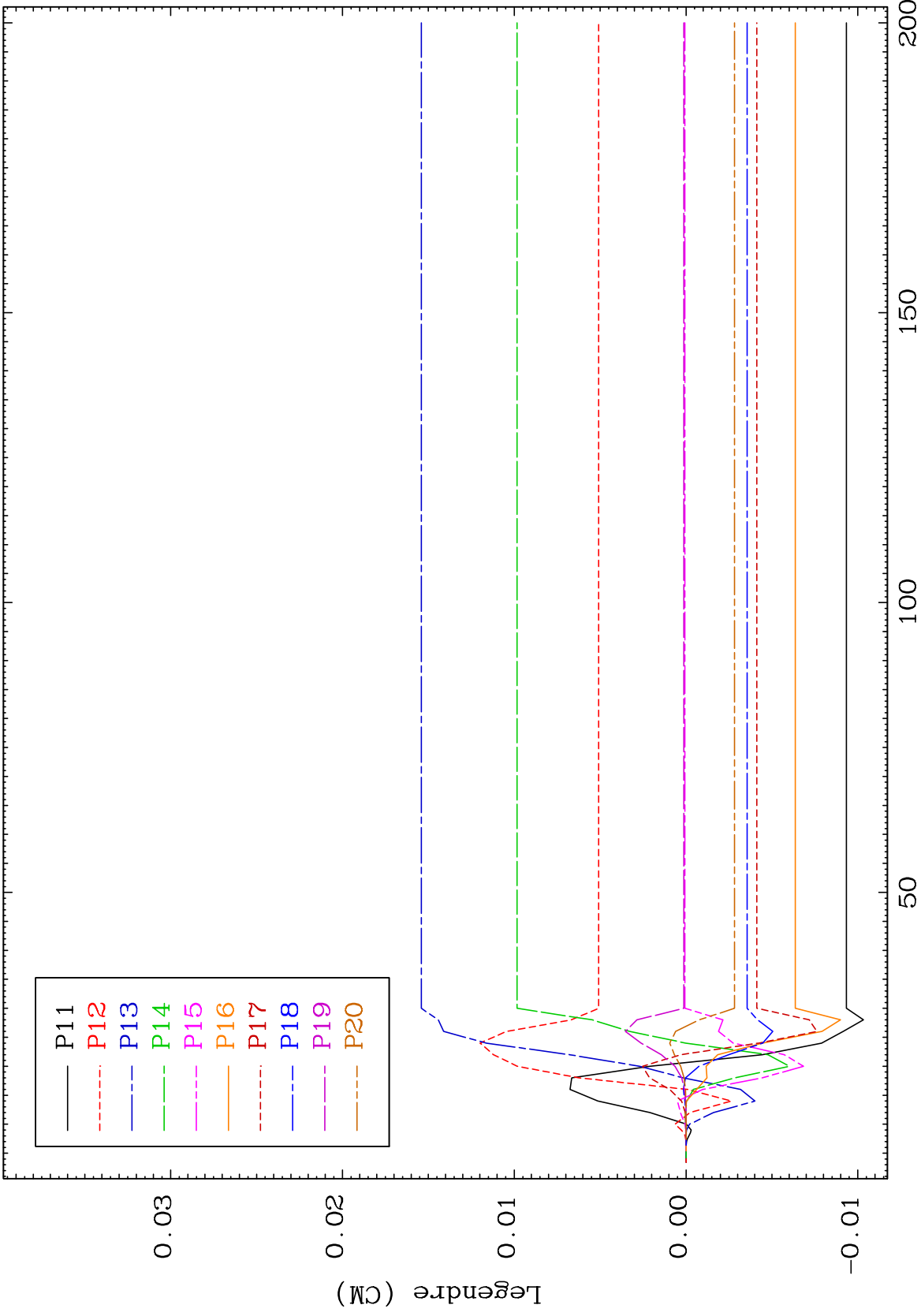
Incident Energy (MeV)

82-Pb-207

MAT 8234

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

82-Pb-207



42

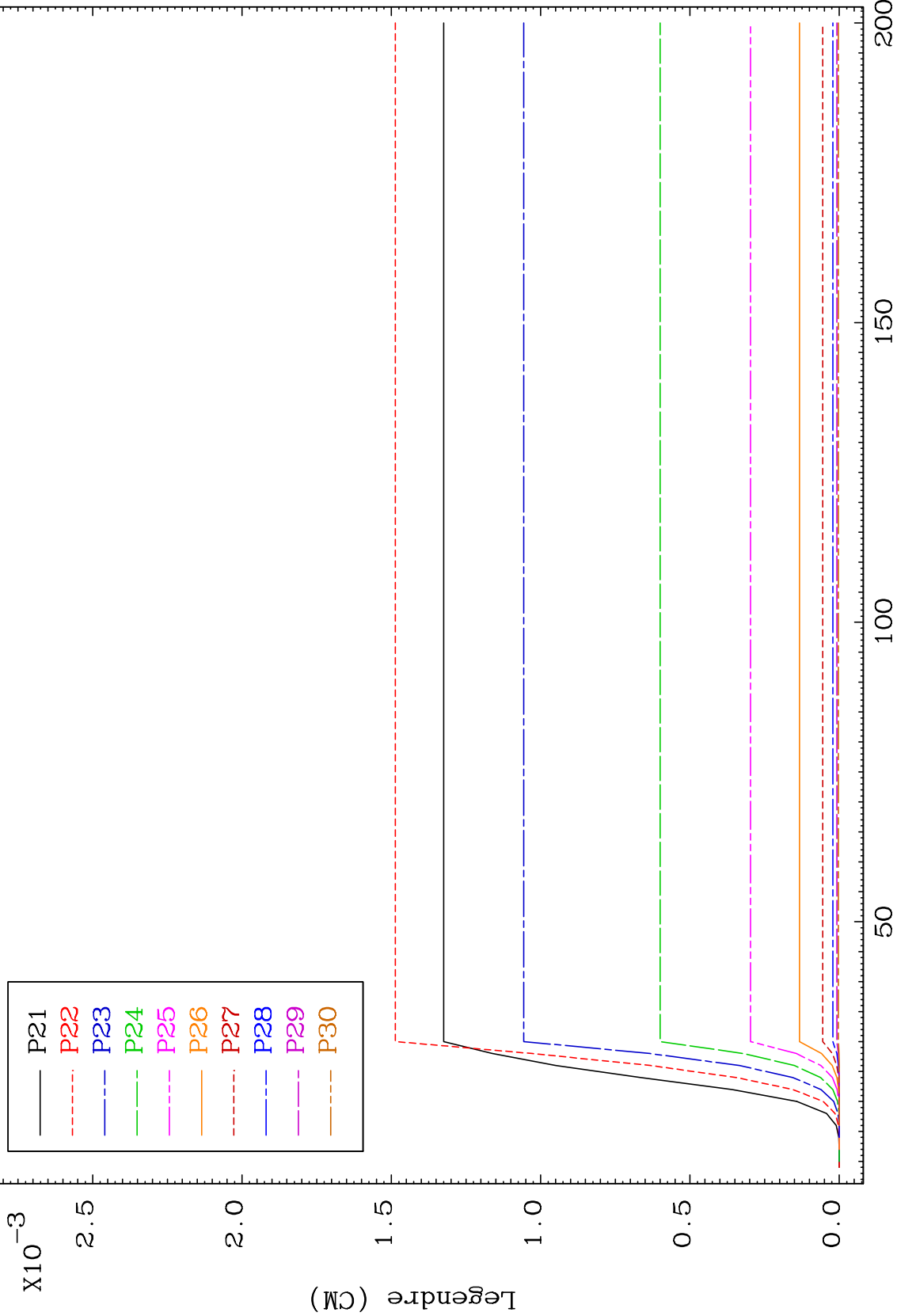
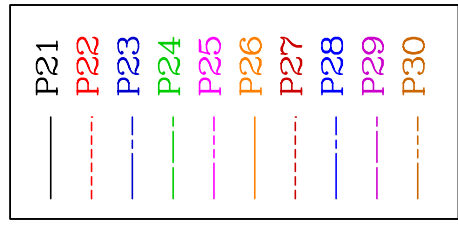
Incident Energy (MeV)

82-Pb-207

MAT 8234

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

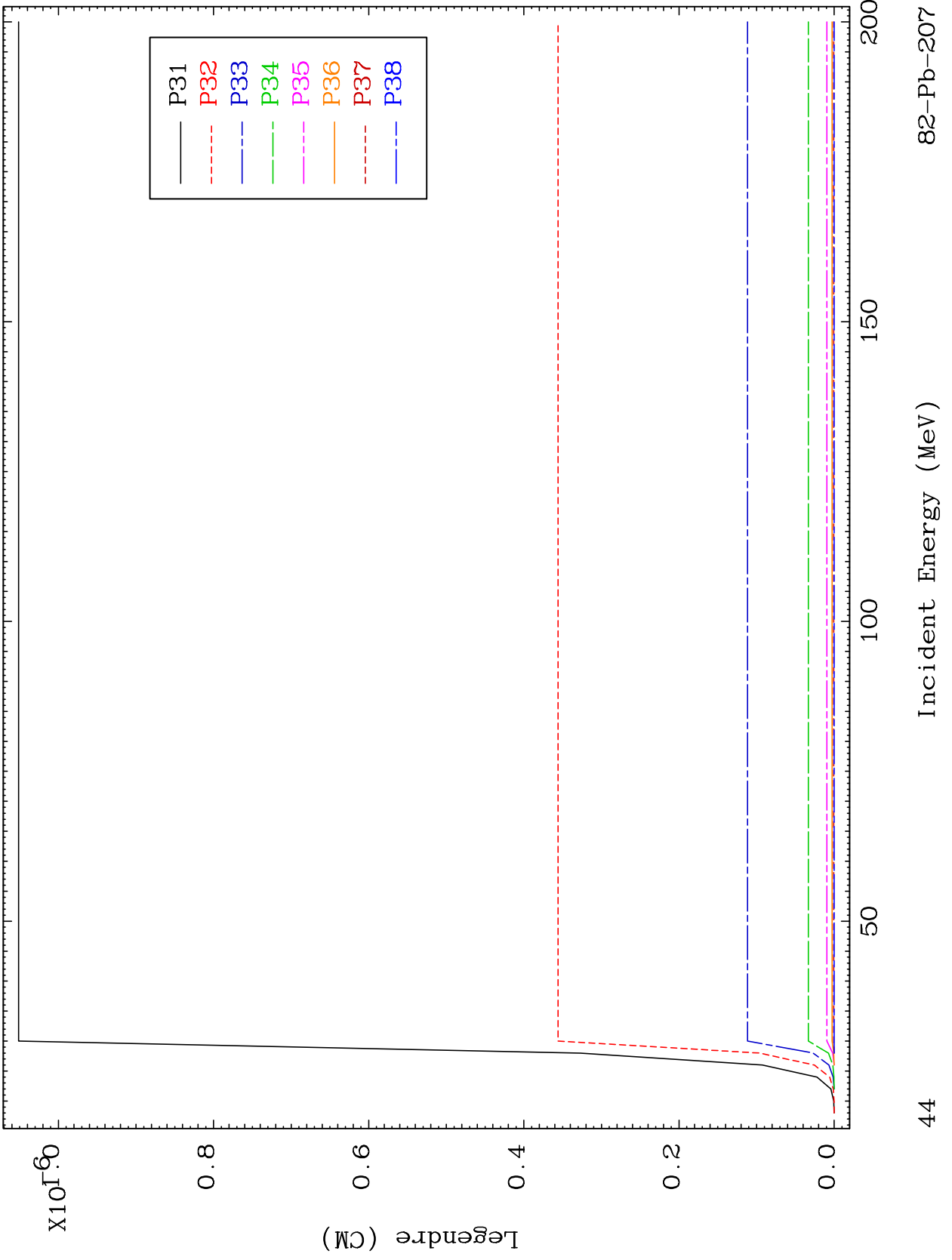
82-Pb-207



MAT 8234

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

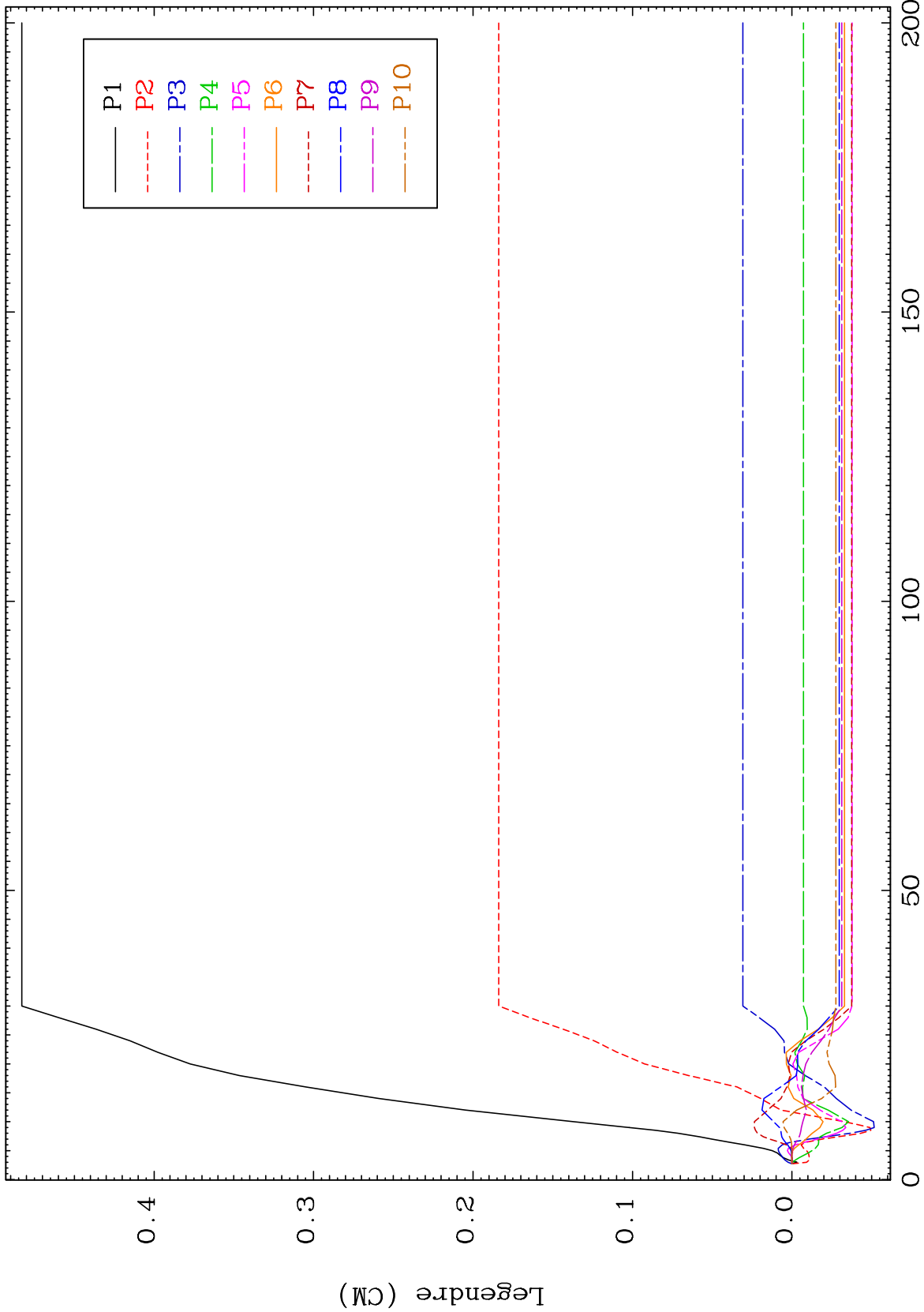
82-Pb-207



MAT 8234

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

82-Pb-207



82-Pb-207

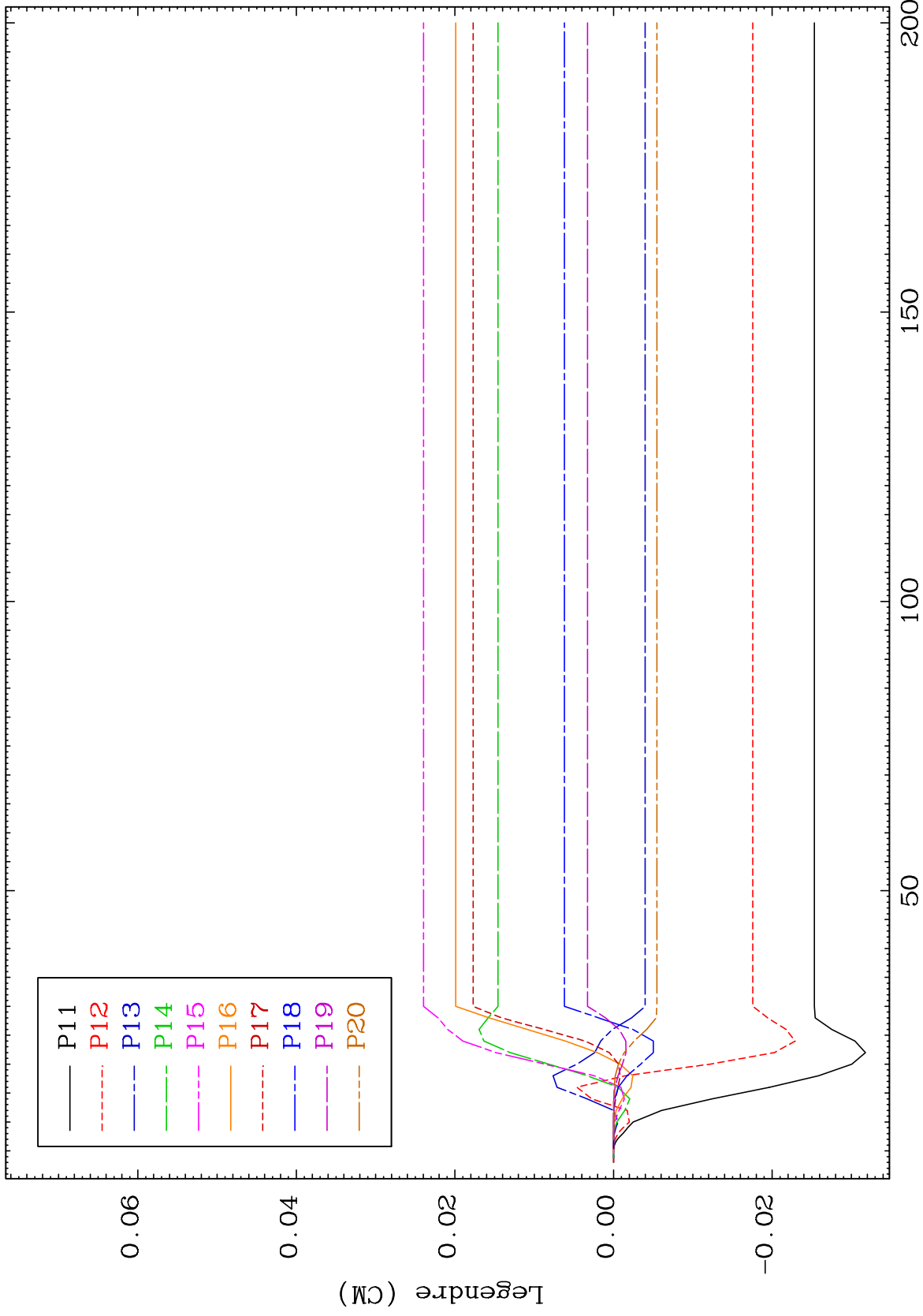
Incident Energy (MeV)

45

MAT 8234

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

82-Pb-207



46

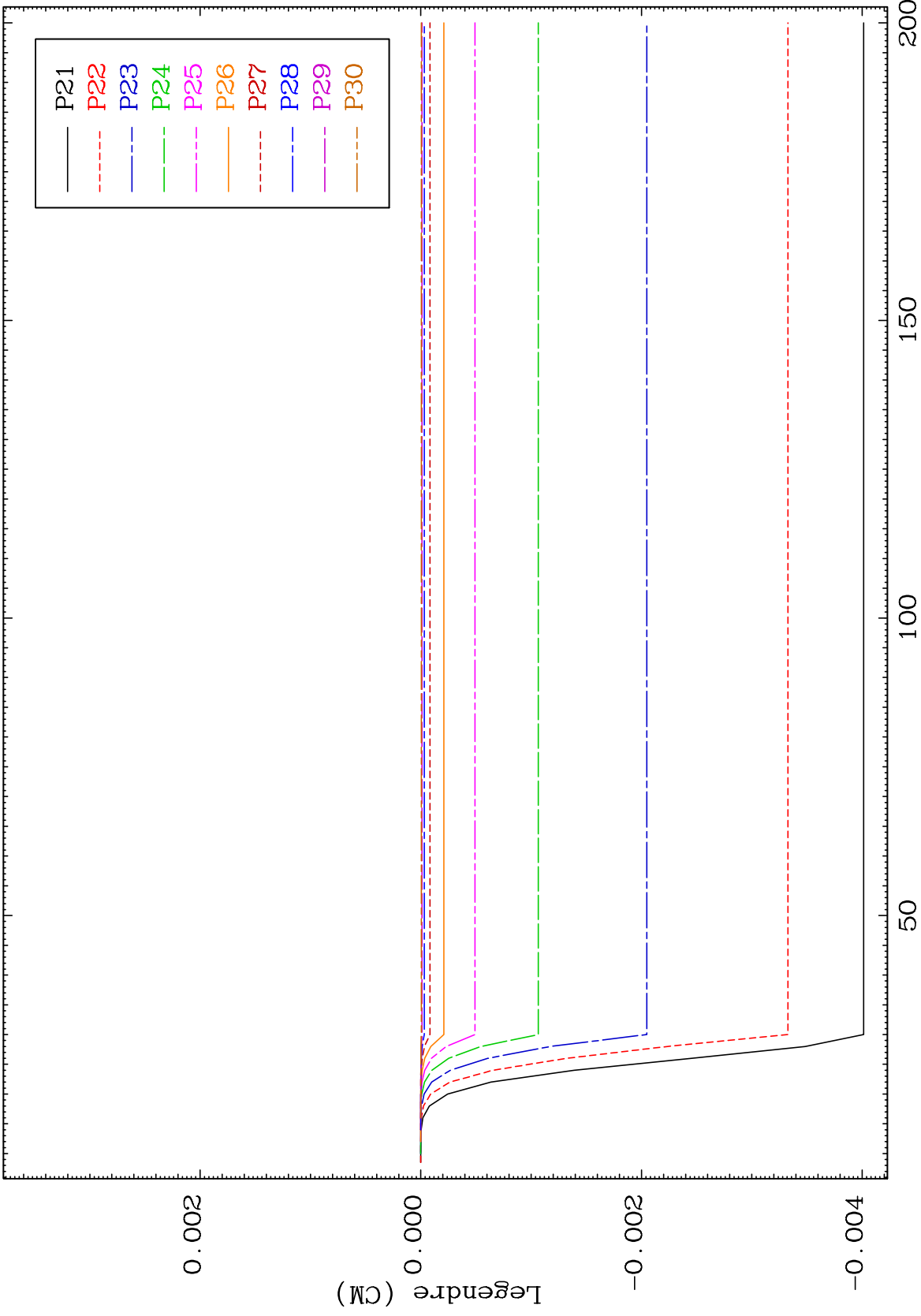
Incident Energy (MeV)

82-Pb-207

MAT 8234

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

82-Pb-207

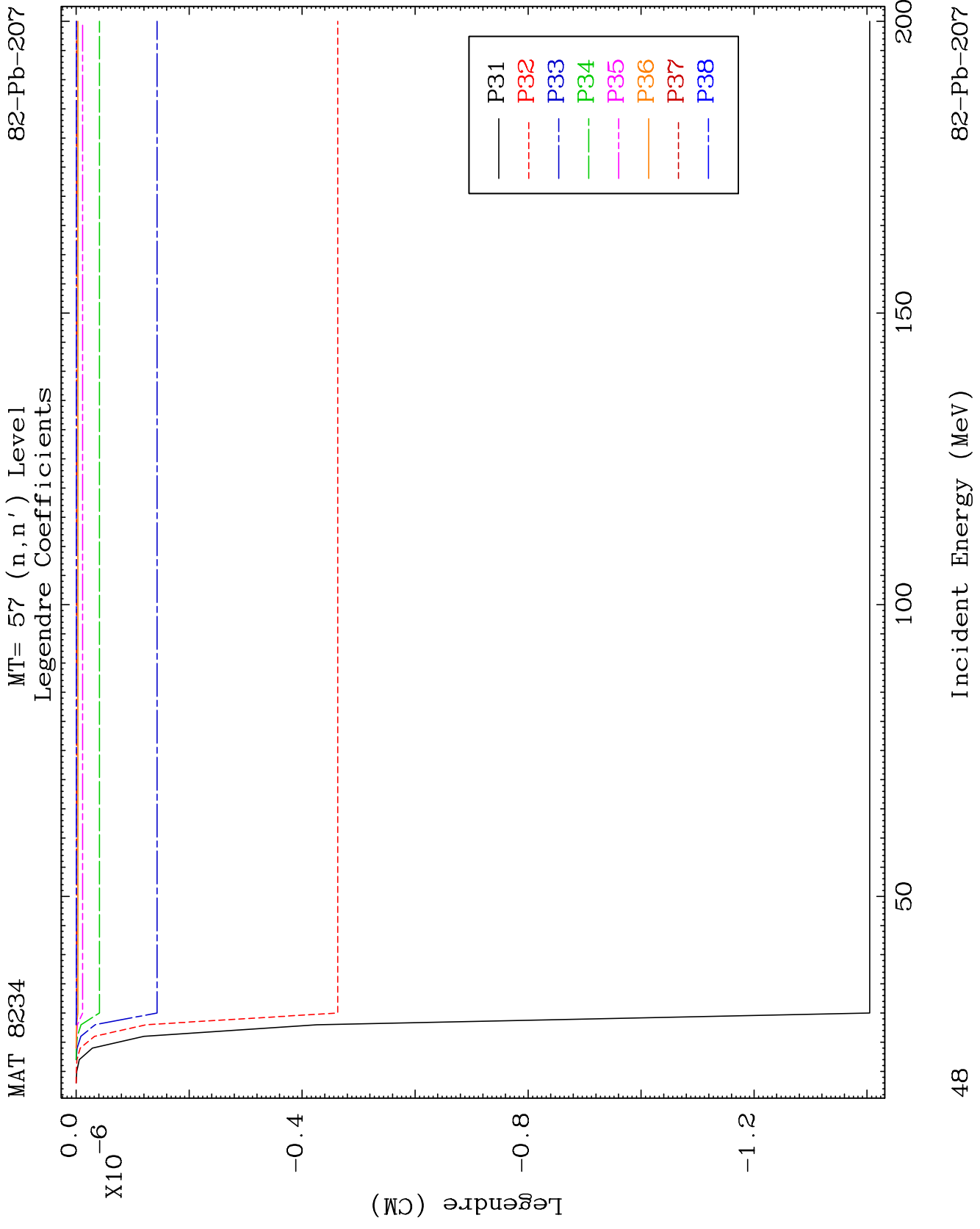


47

Incident Energy (MeV)

82-Pb-207

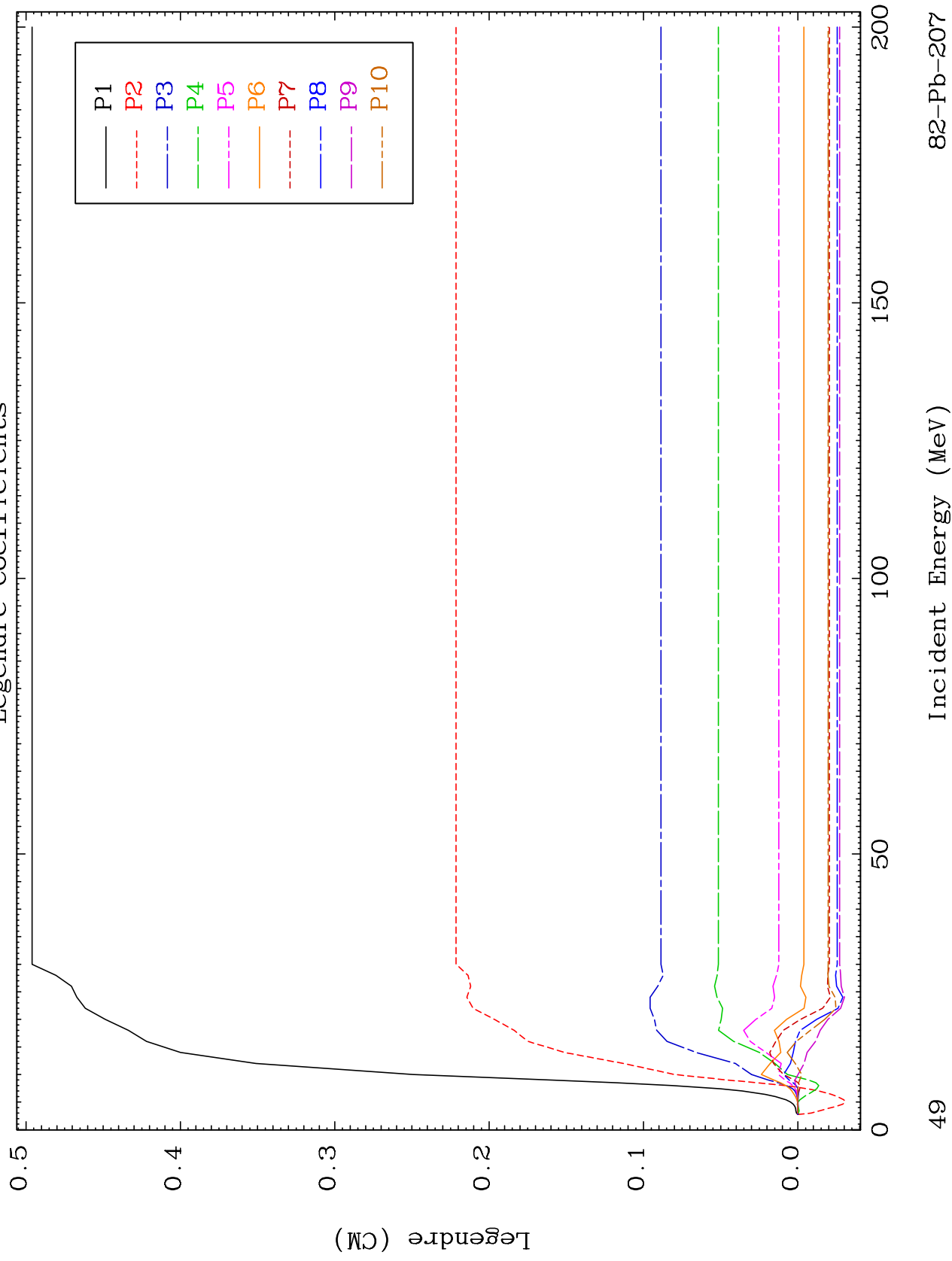




MAT 8234

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

82-Pb-207



49

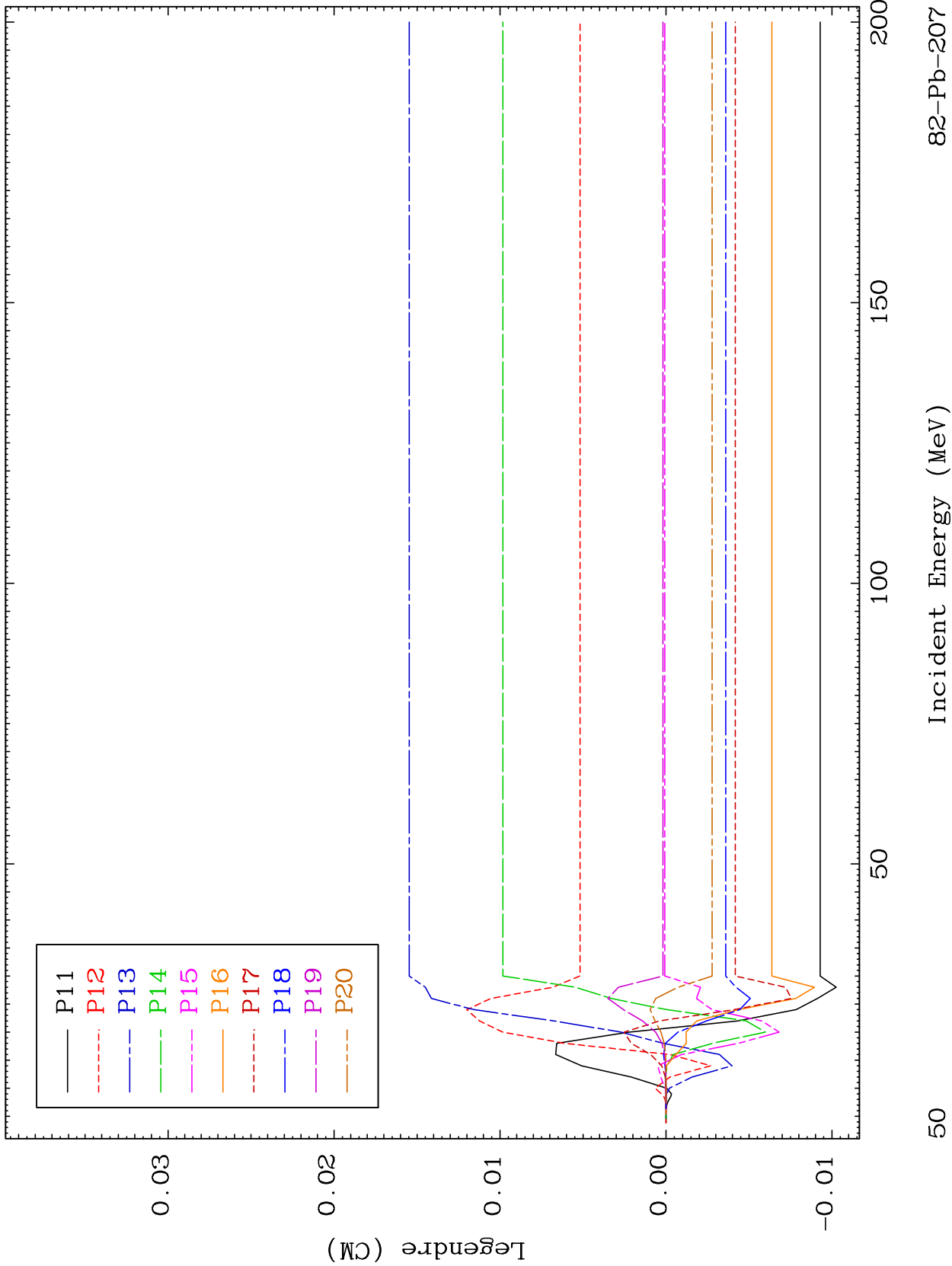
Incident Energy (MeV)

82-Pb-207

MAT 8234

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

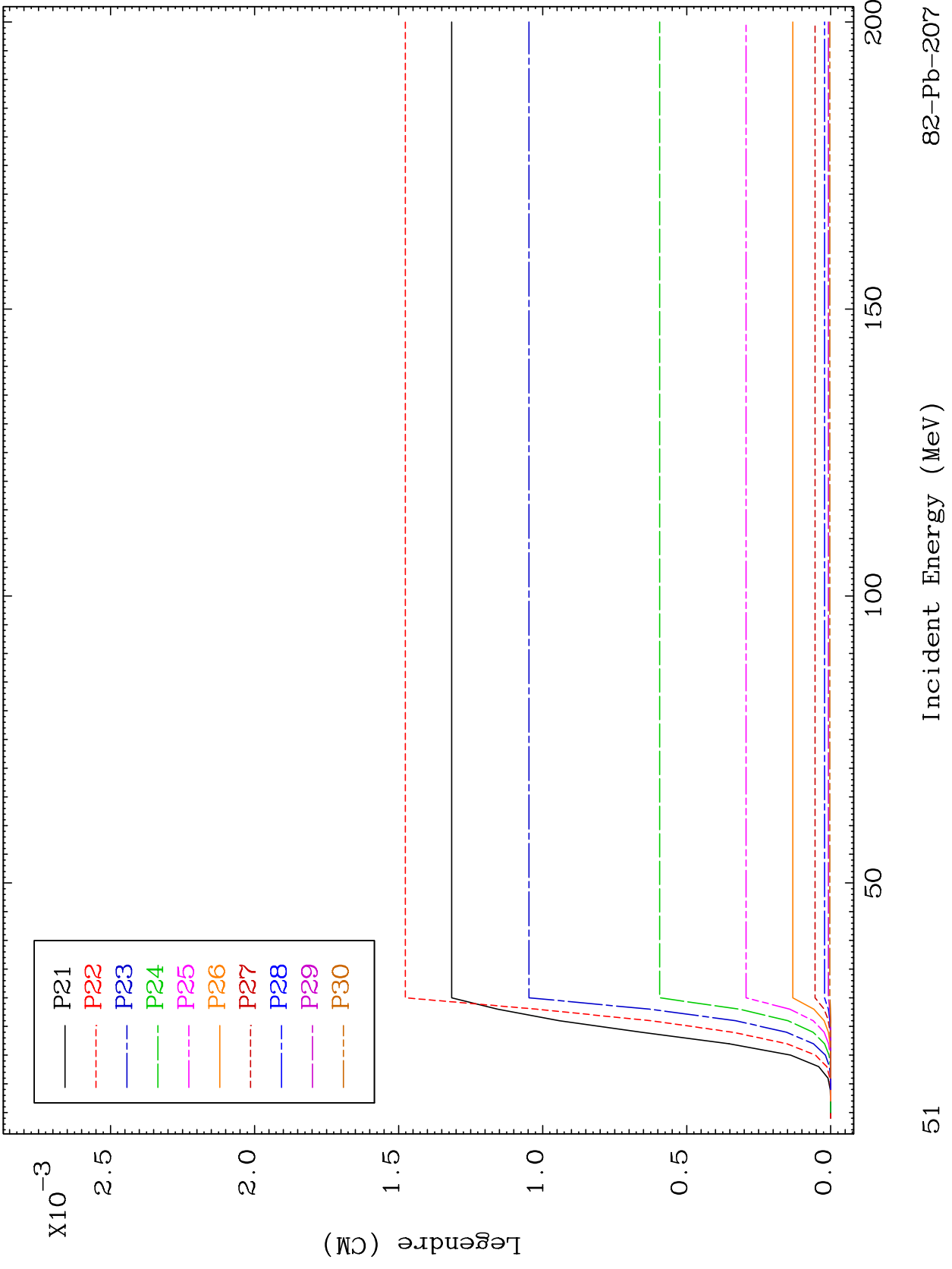
82-Pb-207



50

Incident Energy (MeV)

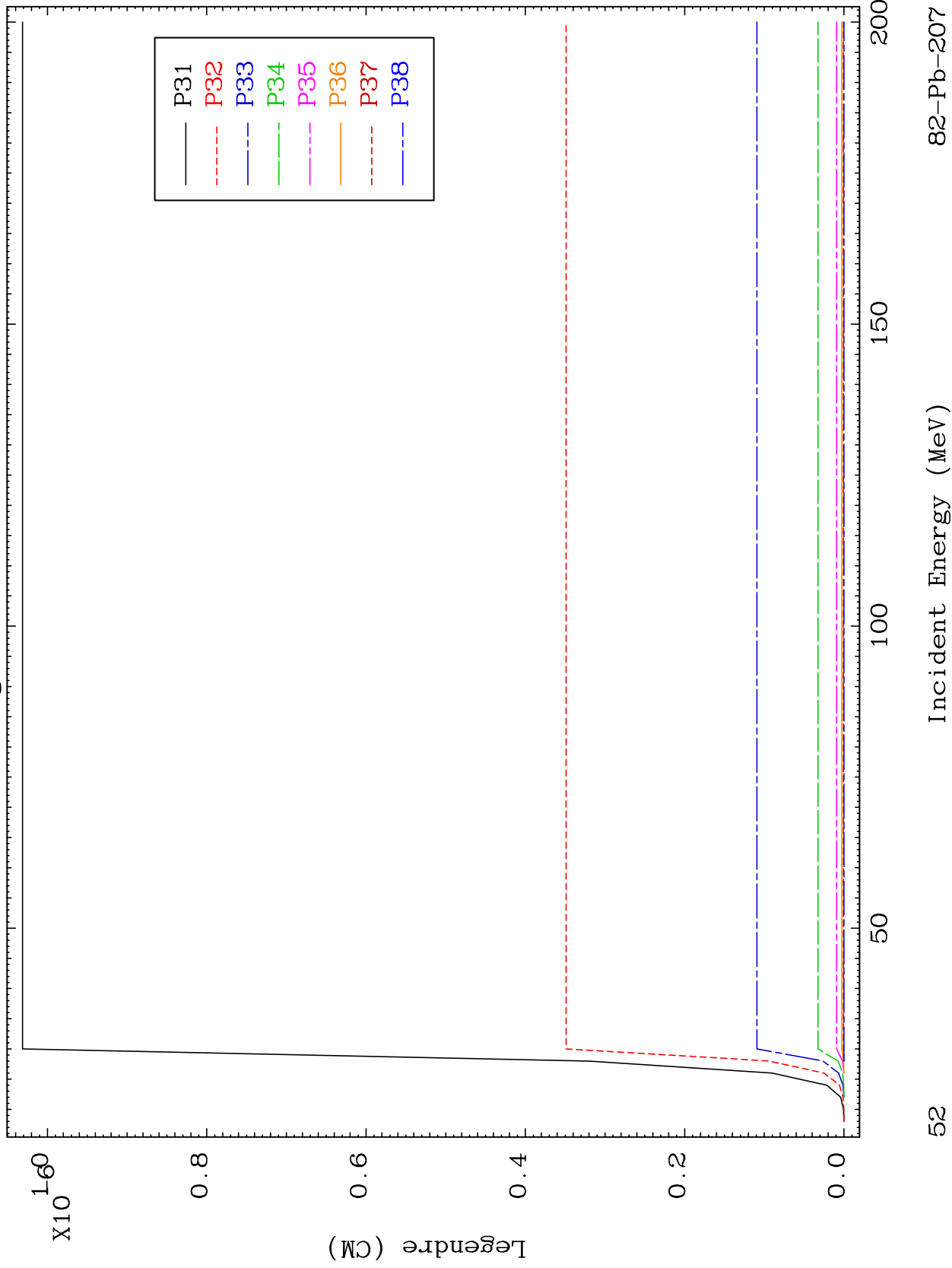
82-Pb-207



MAT 8234

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

82-Pb-207

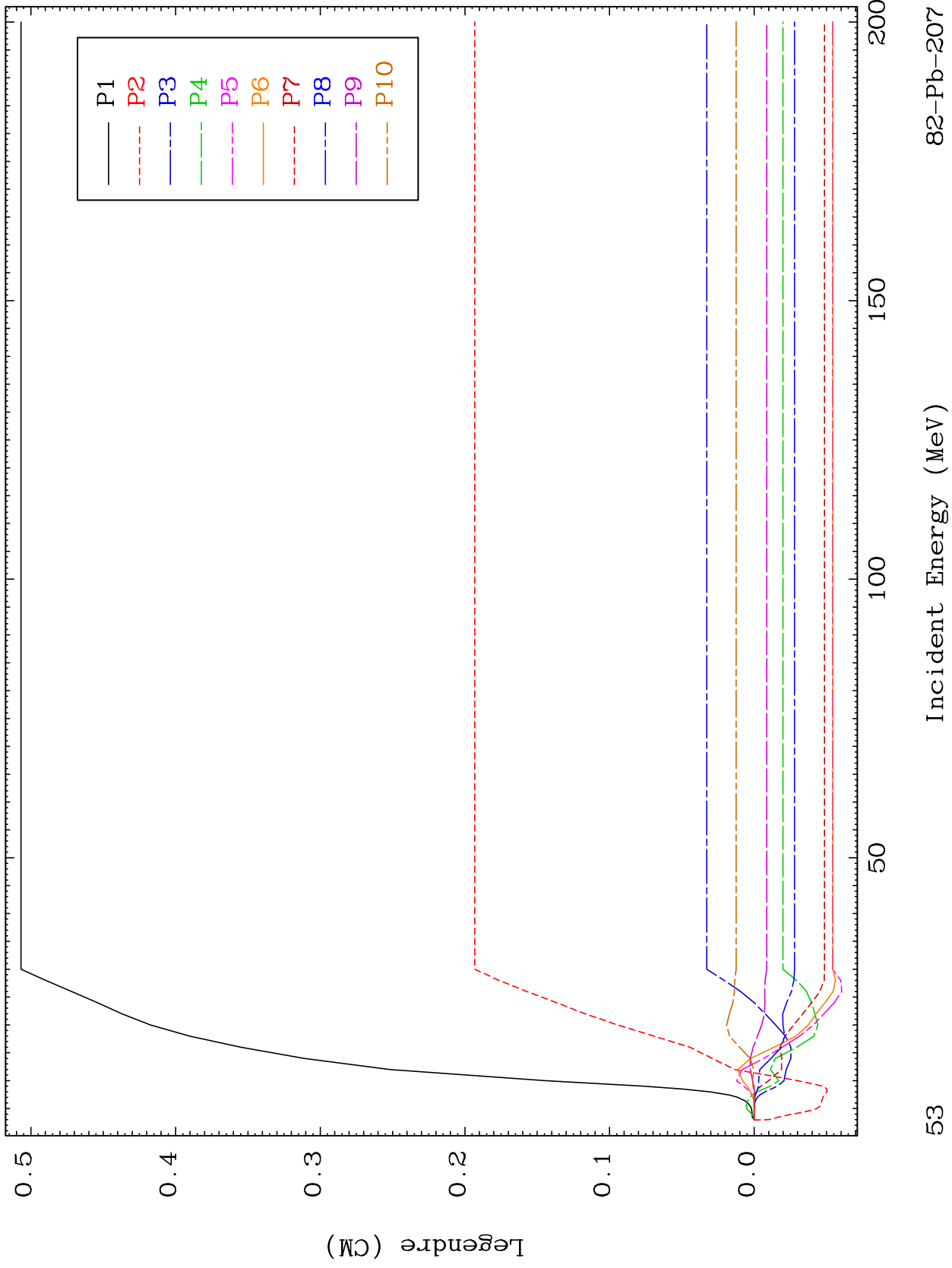


52

MAT 8234

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

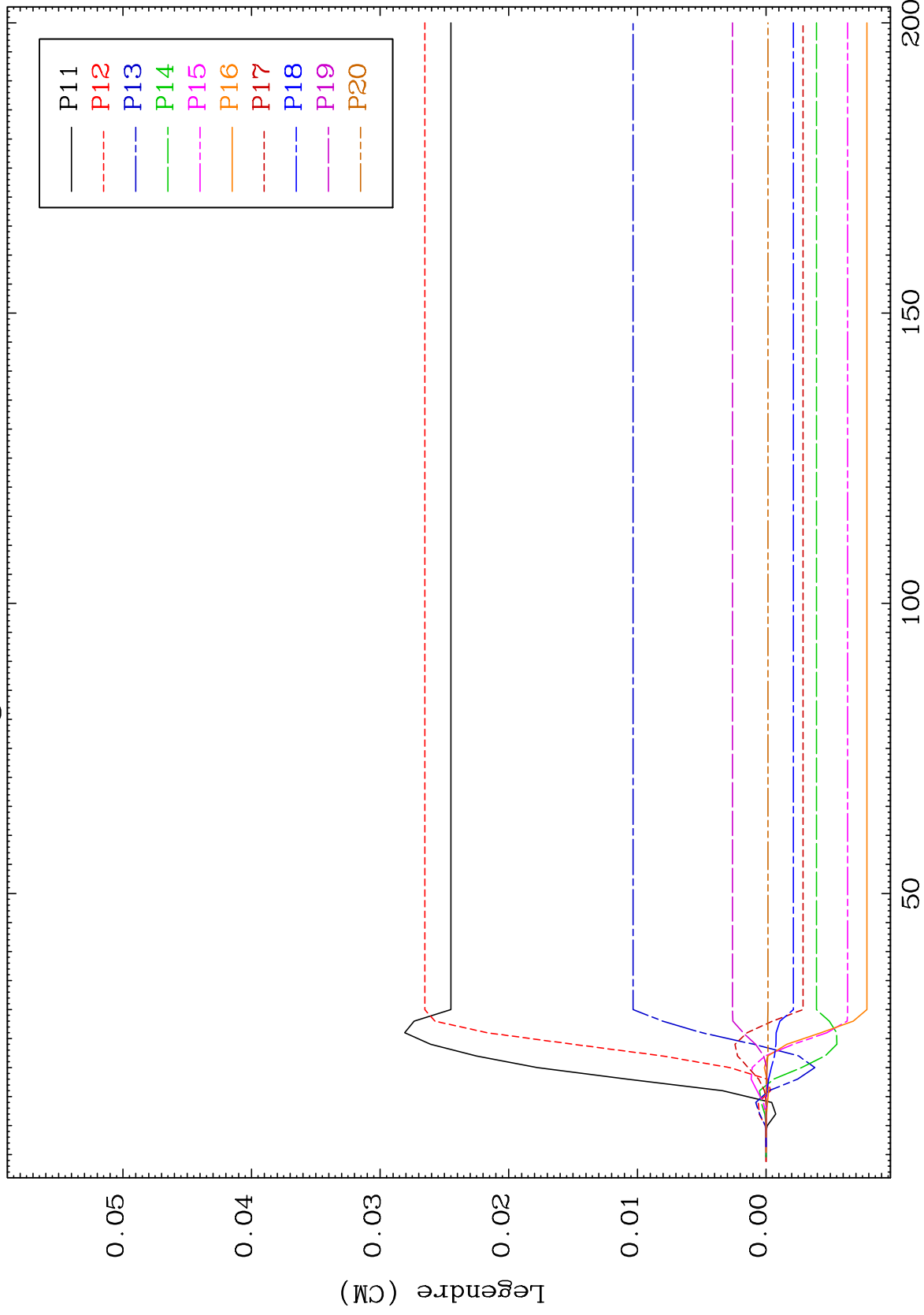
82-Pb-207



MAT 8234

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

82-Pb-207



54

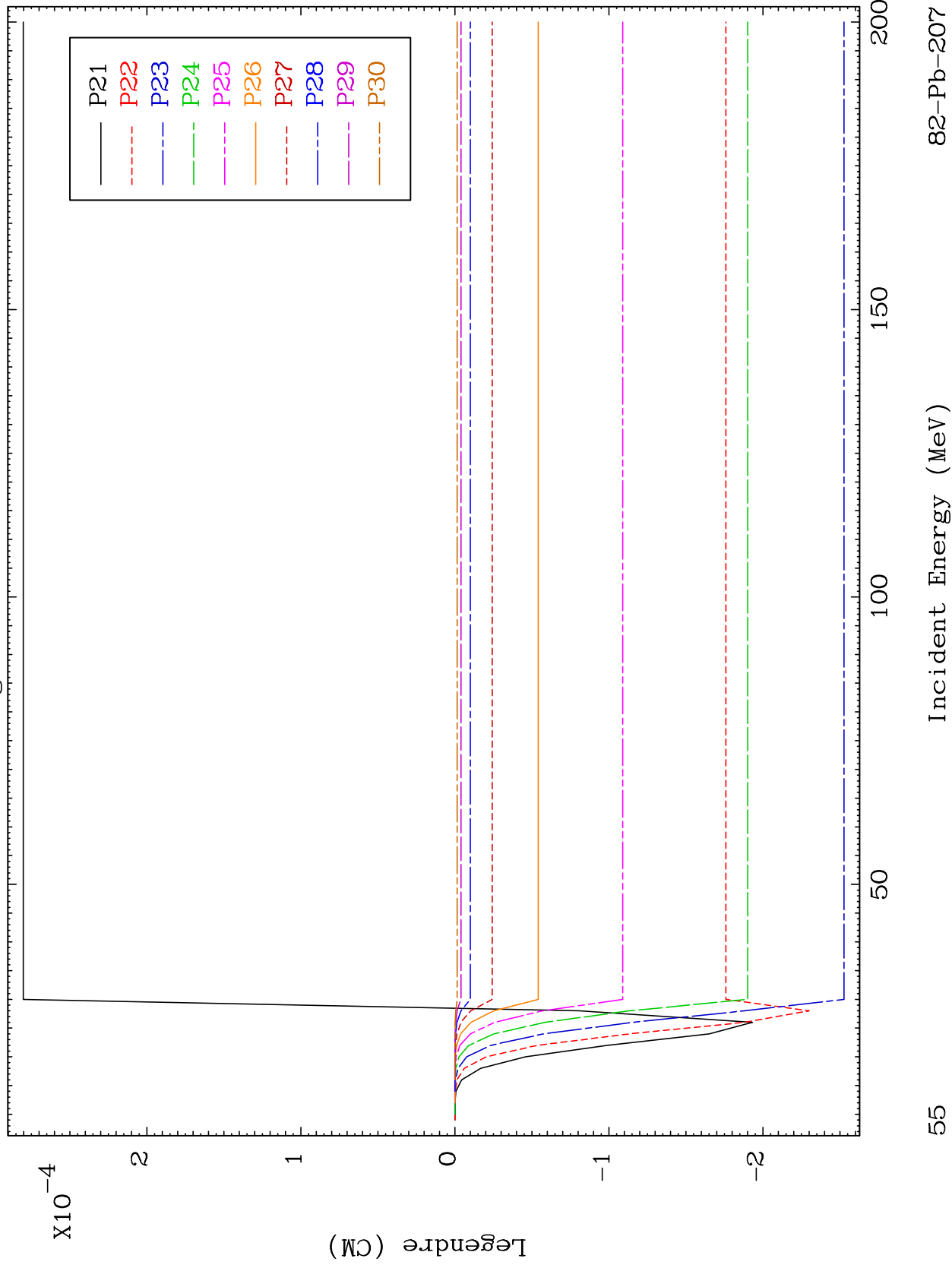
Incident Energy (MeV)

82-Pb-207

MAT 8234

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

82-Pb-207

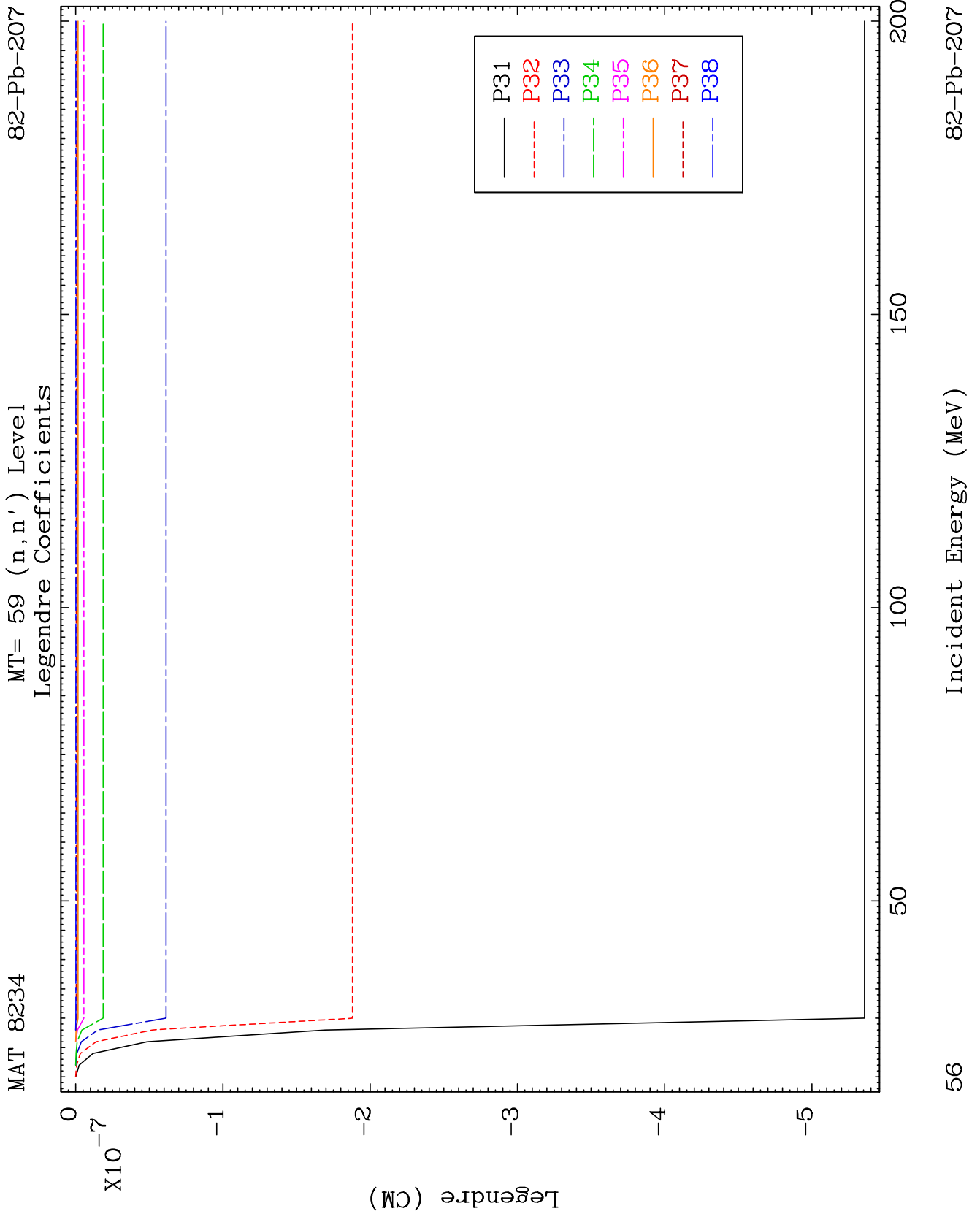


55

Incident Energy (MeV)

82-Pb-207

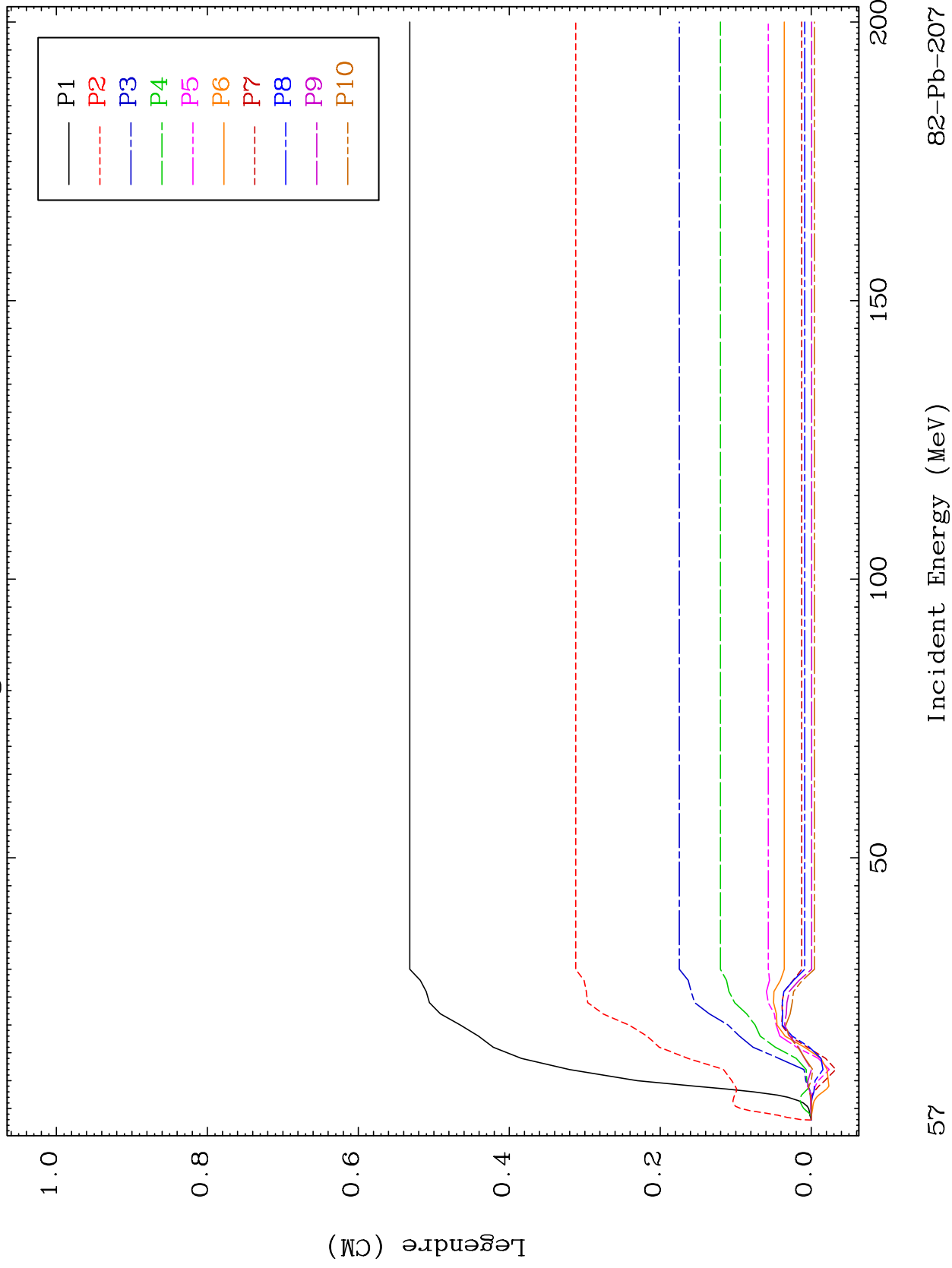




MAT 8234

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

82-Pb-207



57

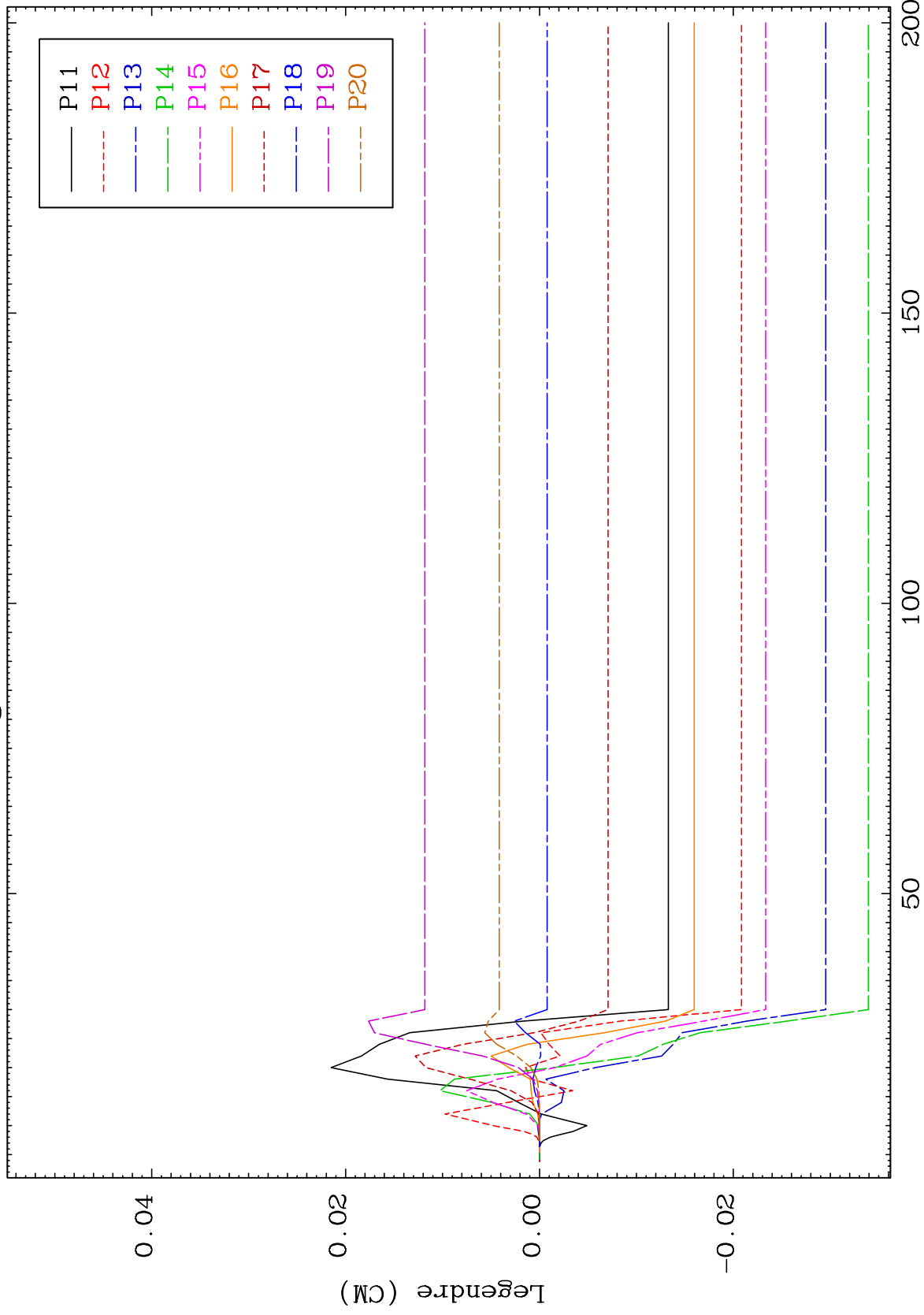
Incident Energy (MeV)

82-Pb-207

MAT 8234

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

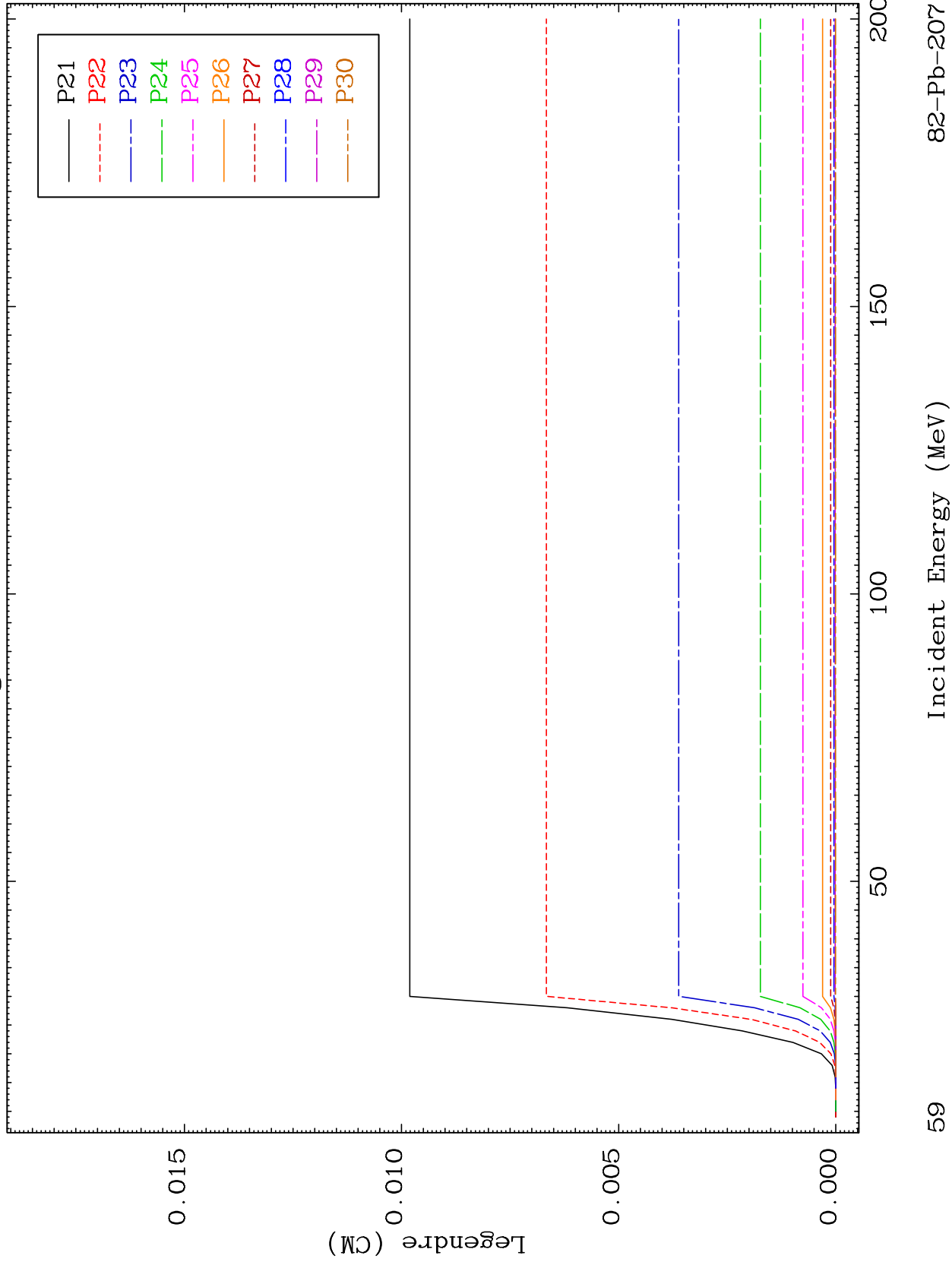
82-Pb-207



MAT 8234

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

82-Pb-207



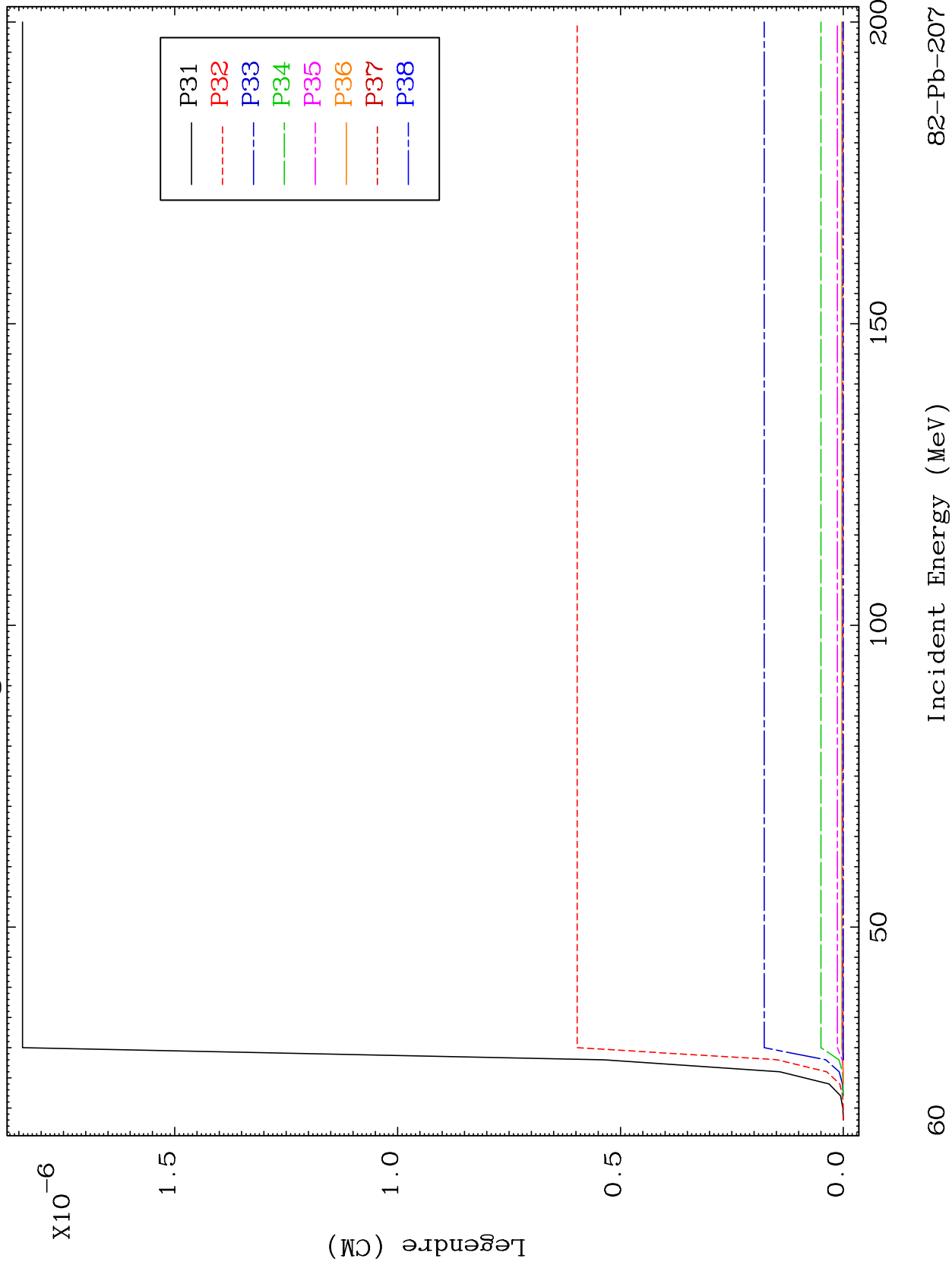
59

82-Pb-207

MAT 8234

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

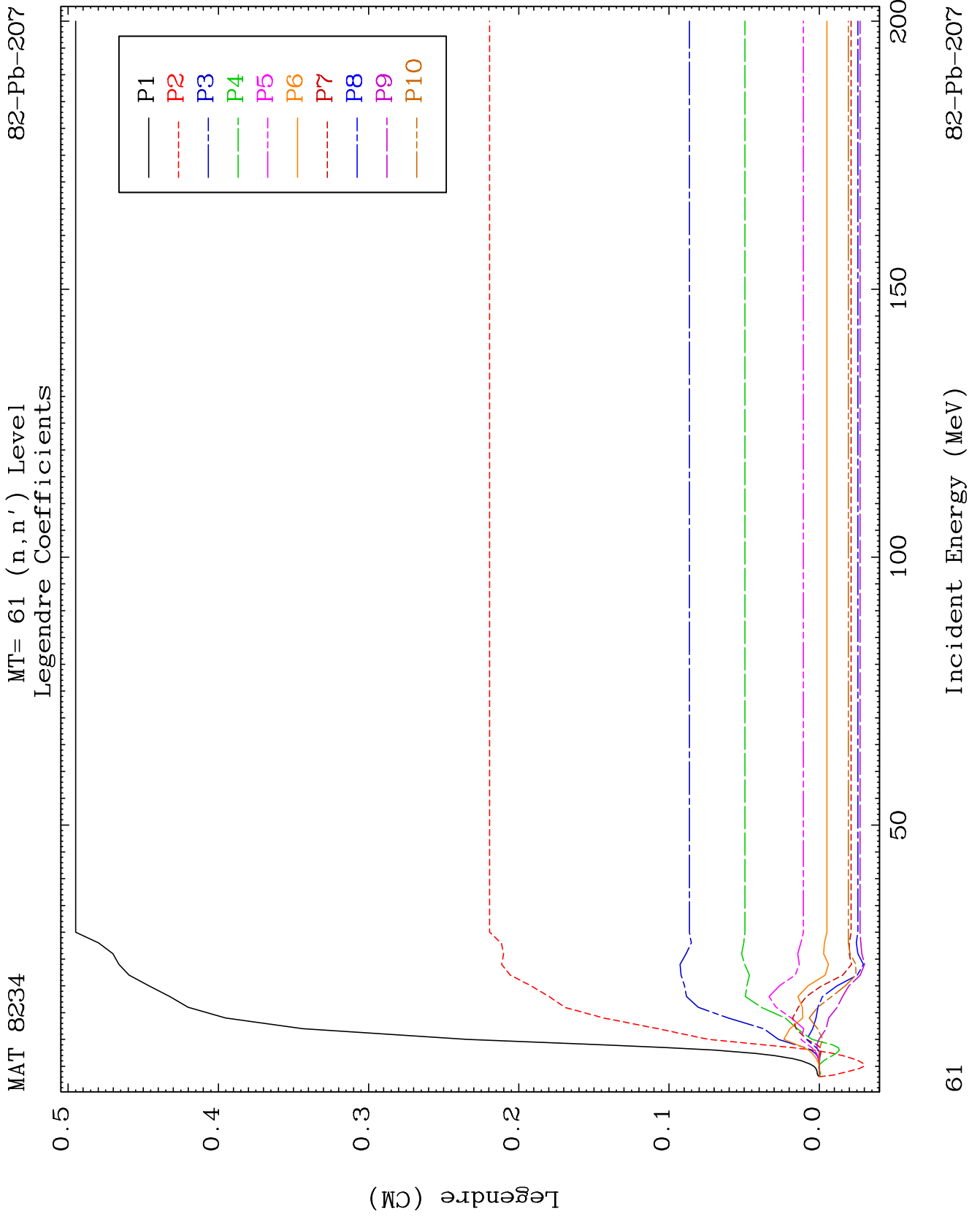
82-Pb-207

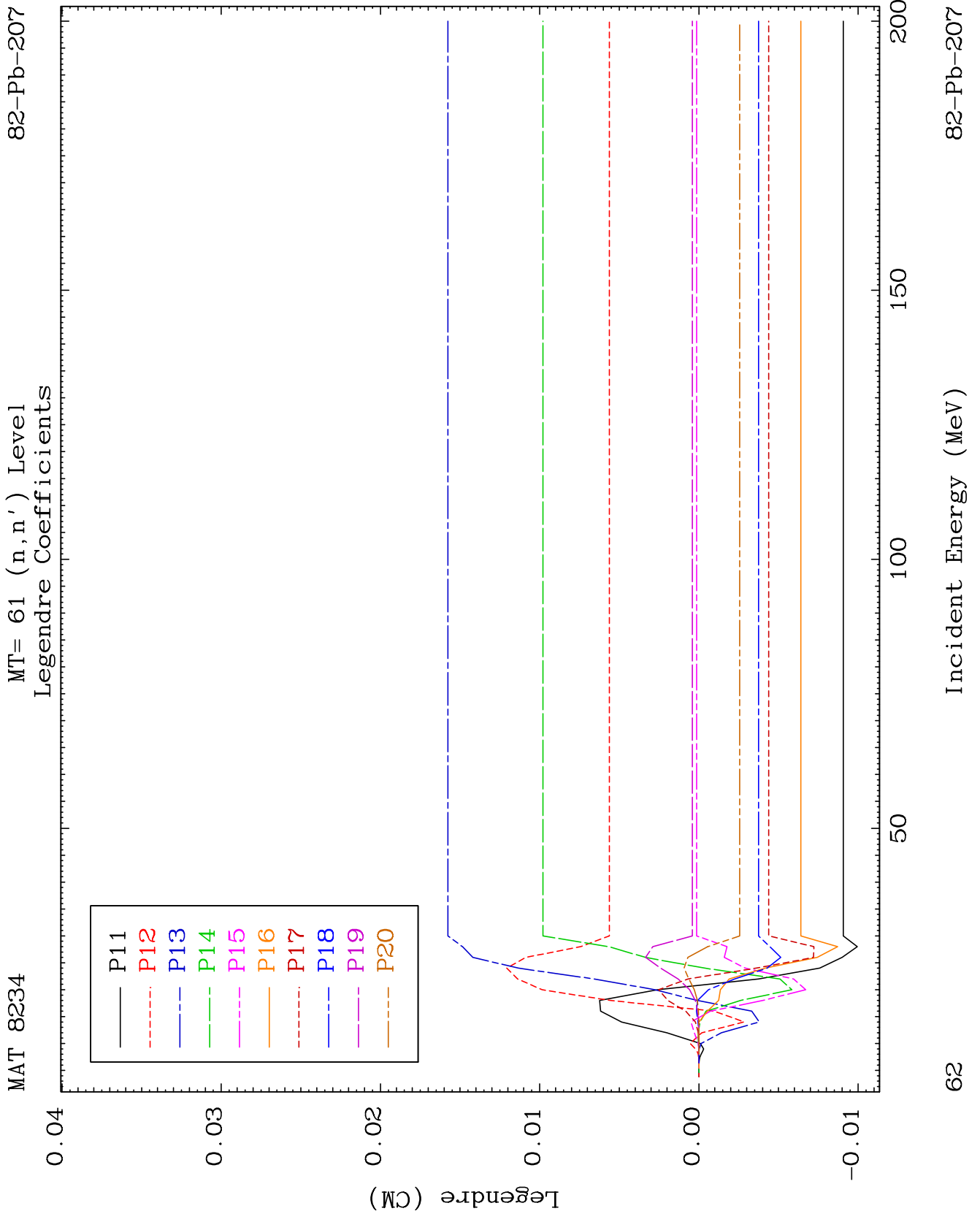


82-Pb-207

Incident Energy (MeV)

60

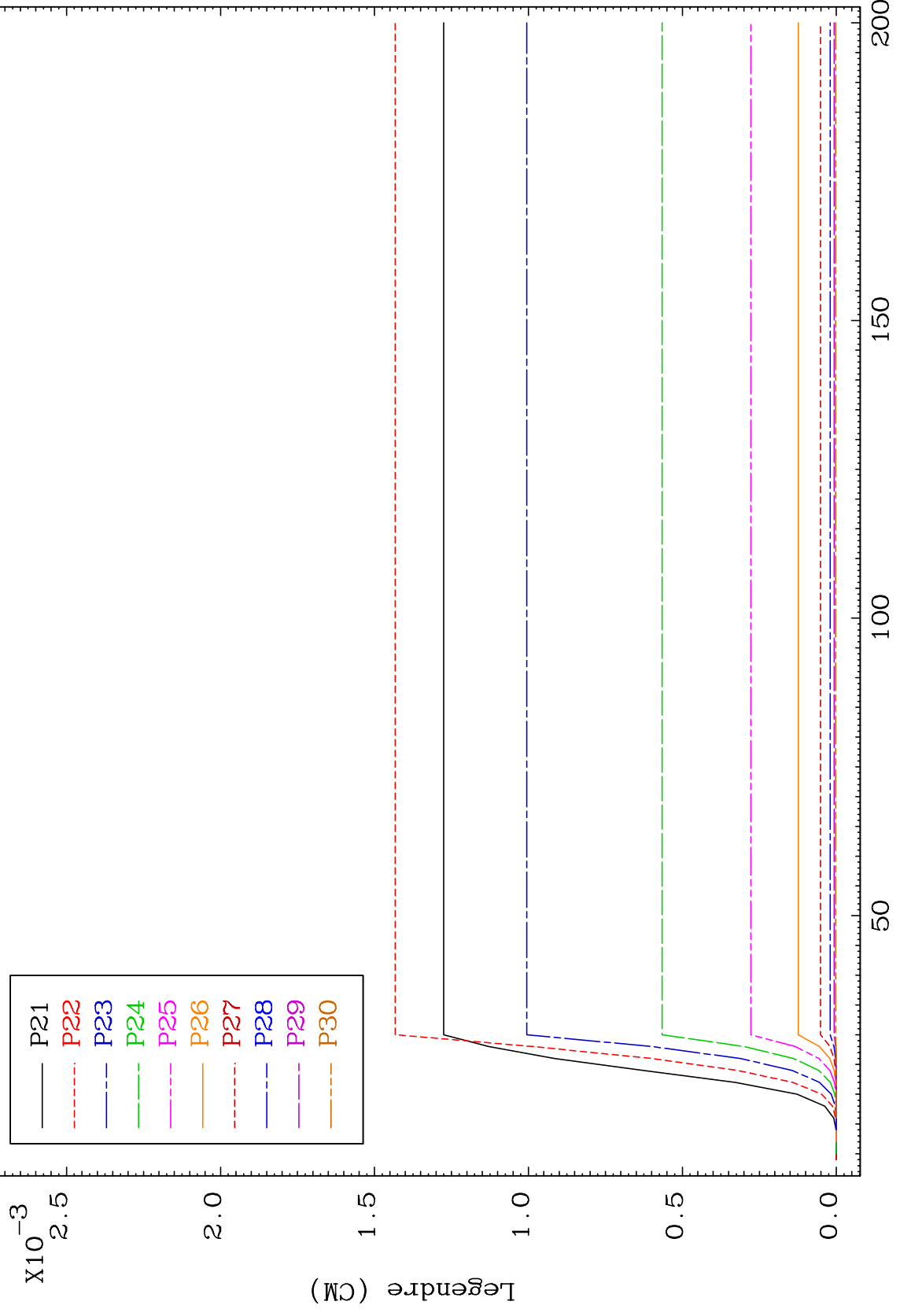
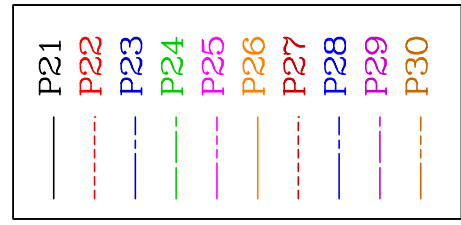




MAT 8234

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

82-Pb-207



63

Incident Energy (MeV)

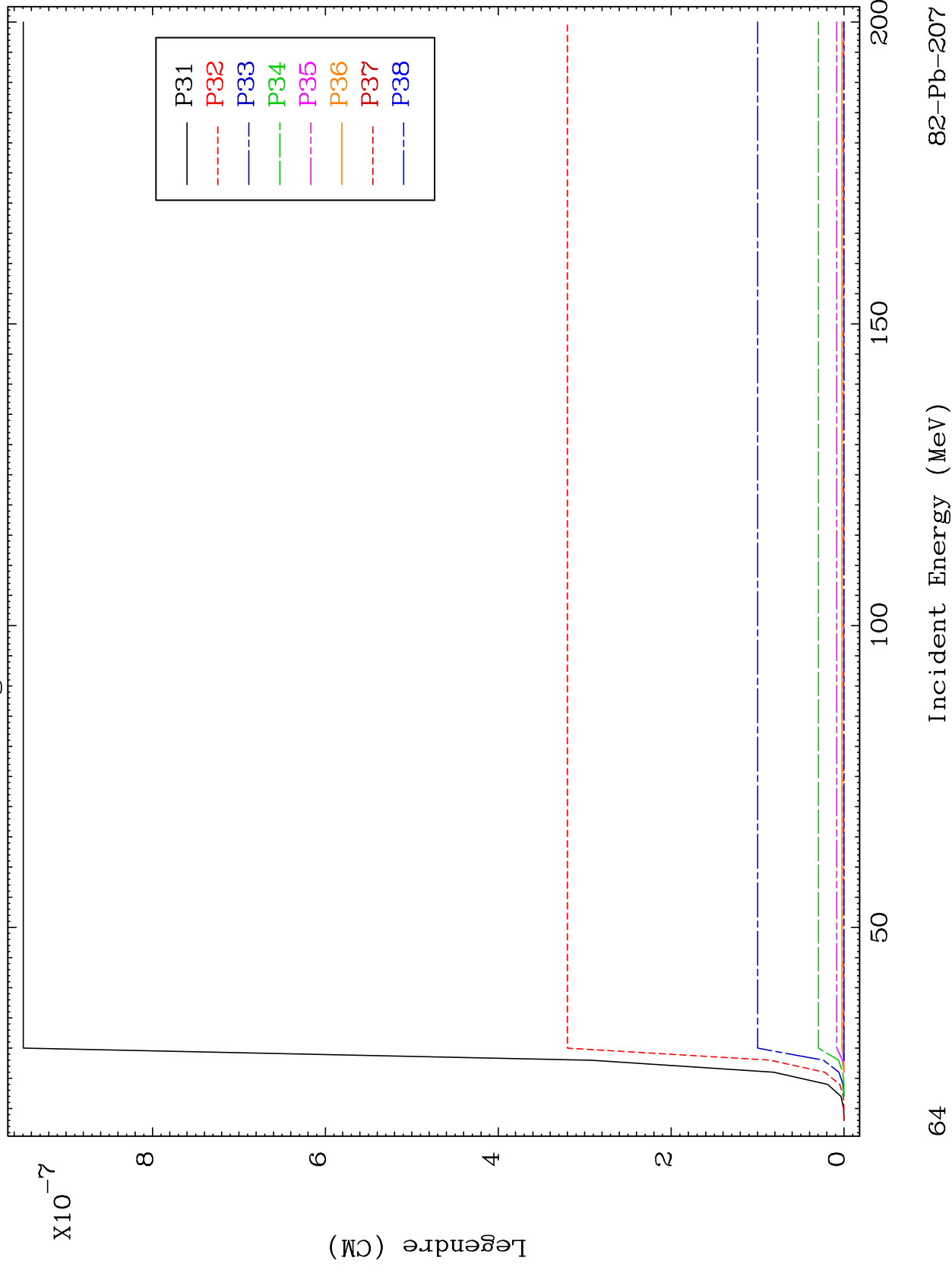
82-Pb-207



MAT 8234

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

82-Pb-207



64

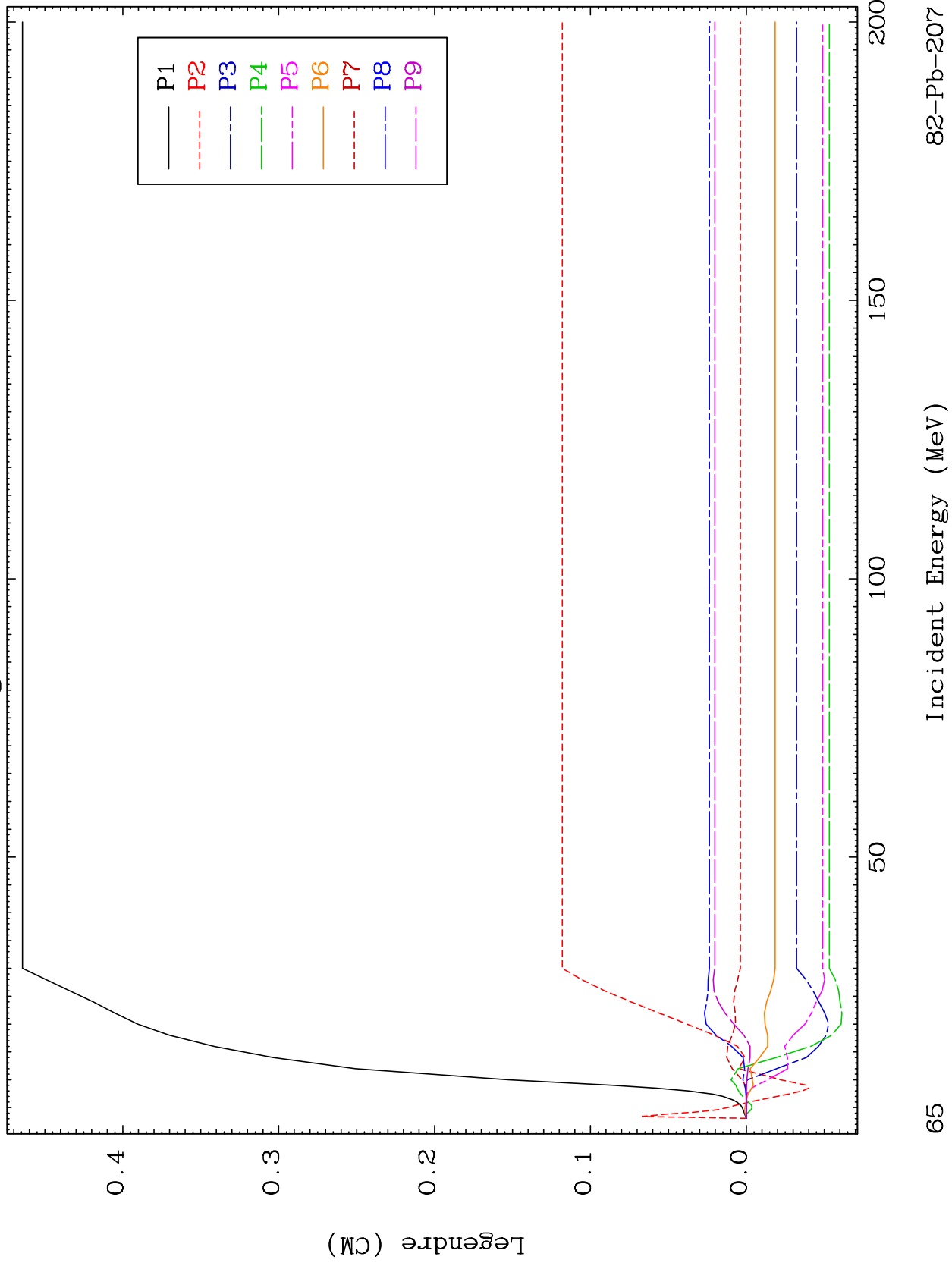
Incident Energy (MeV)

82-Pb-207

MAT 8234

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

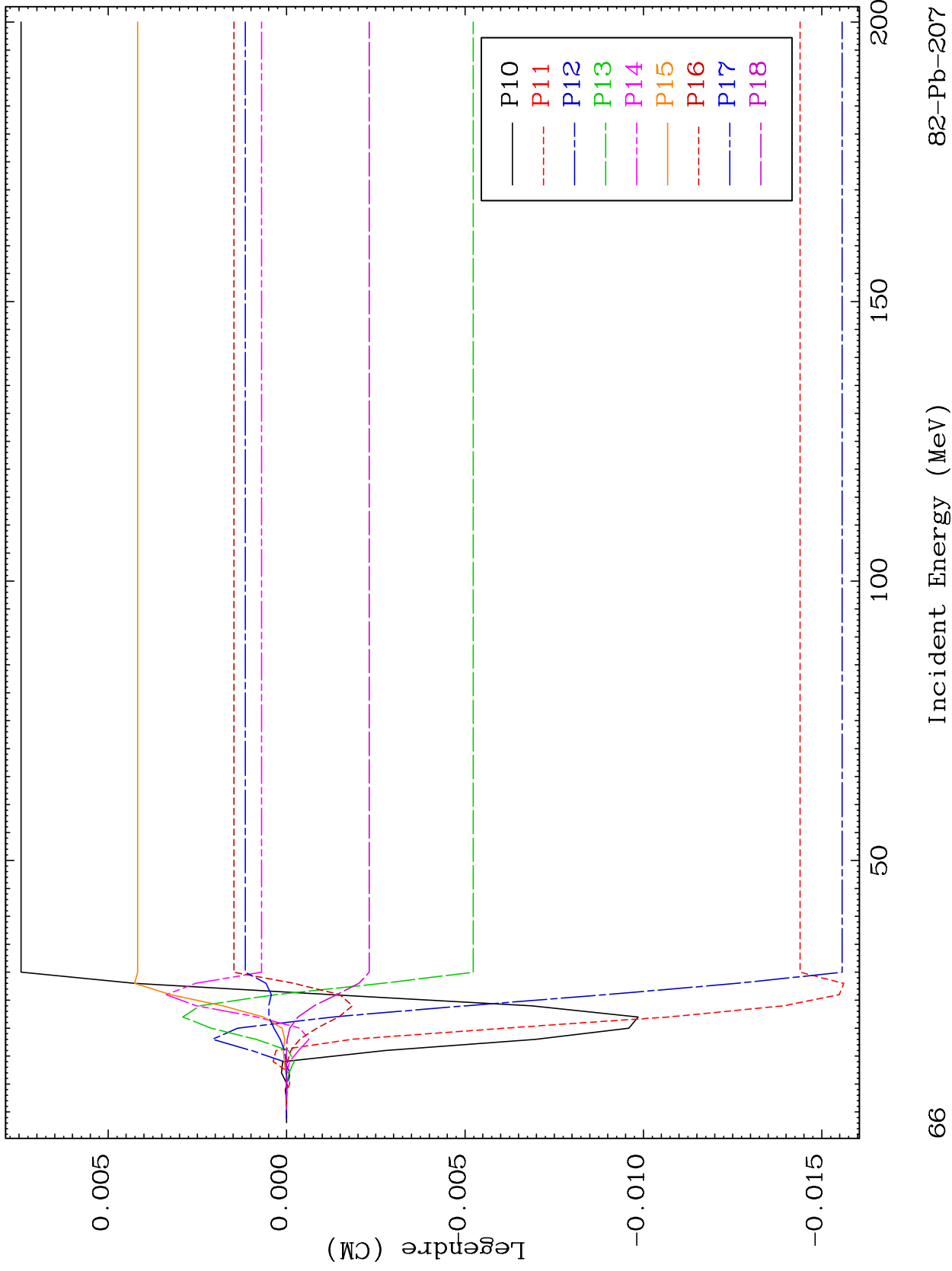
82-Pb-207



65

Incident Energy (MeV)

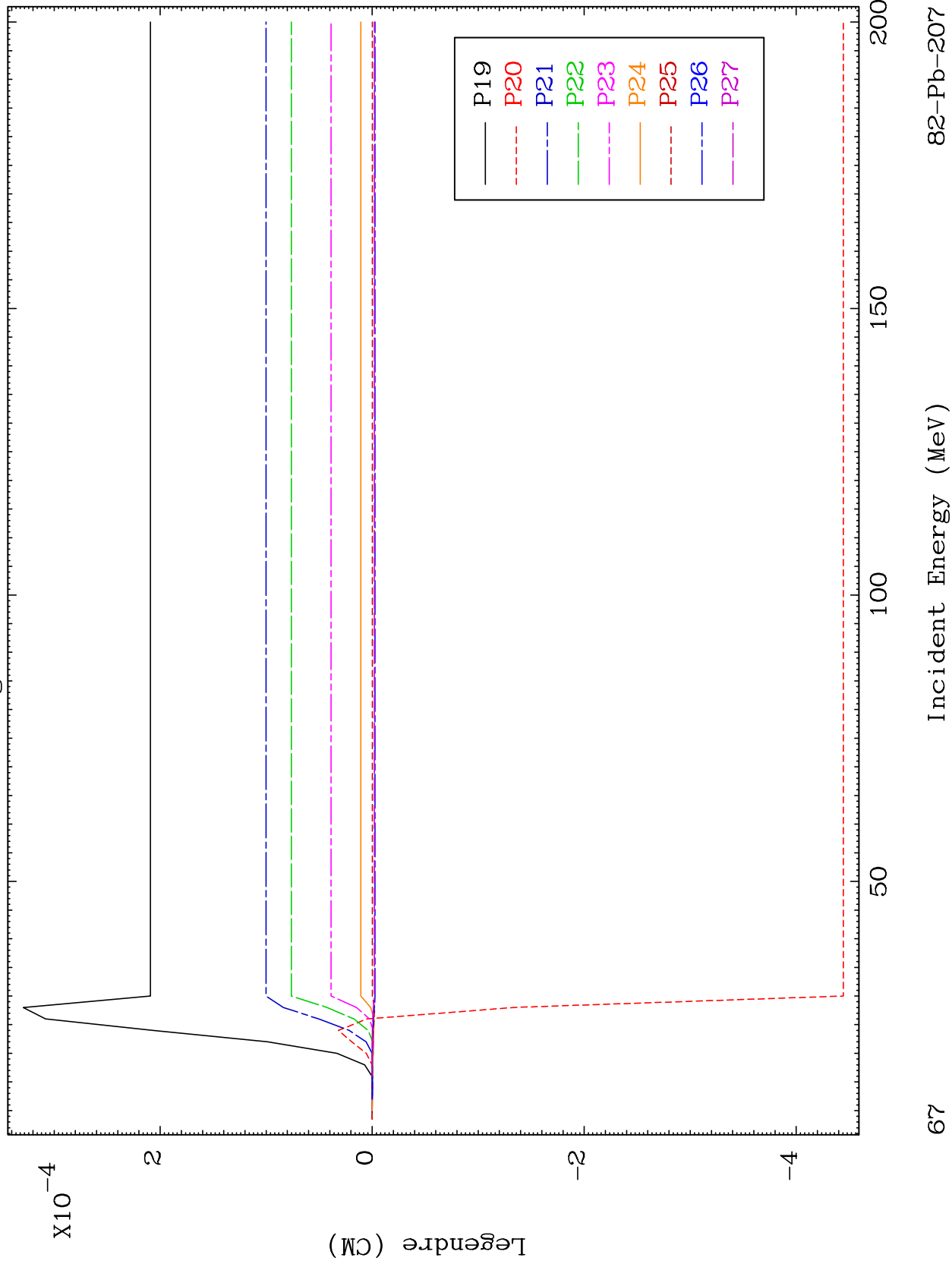
82-Pb-207



MAT 8234

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

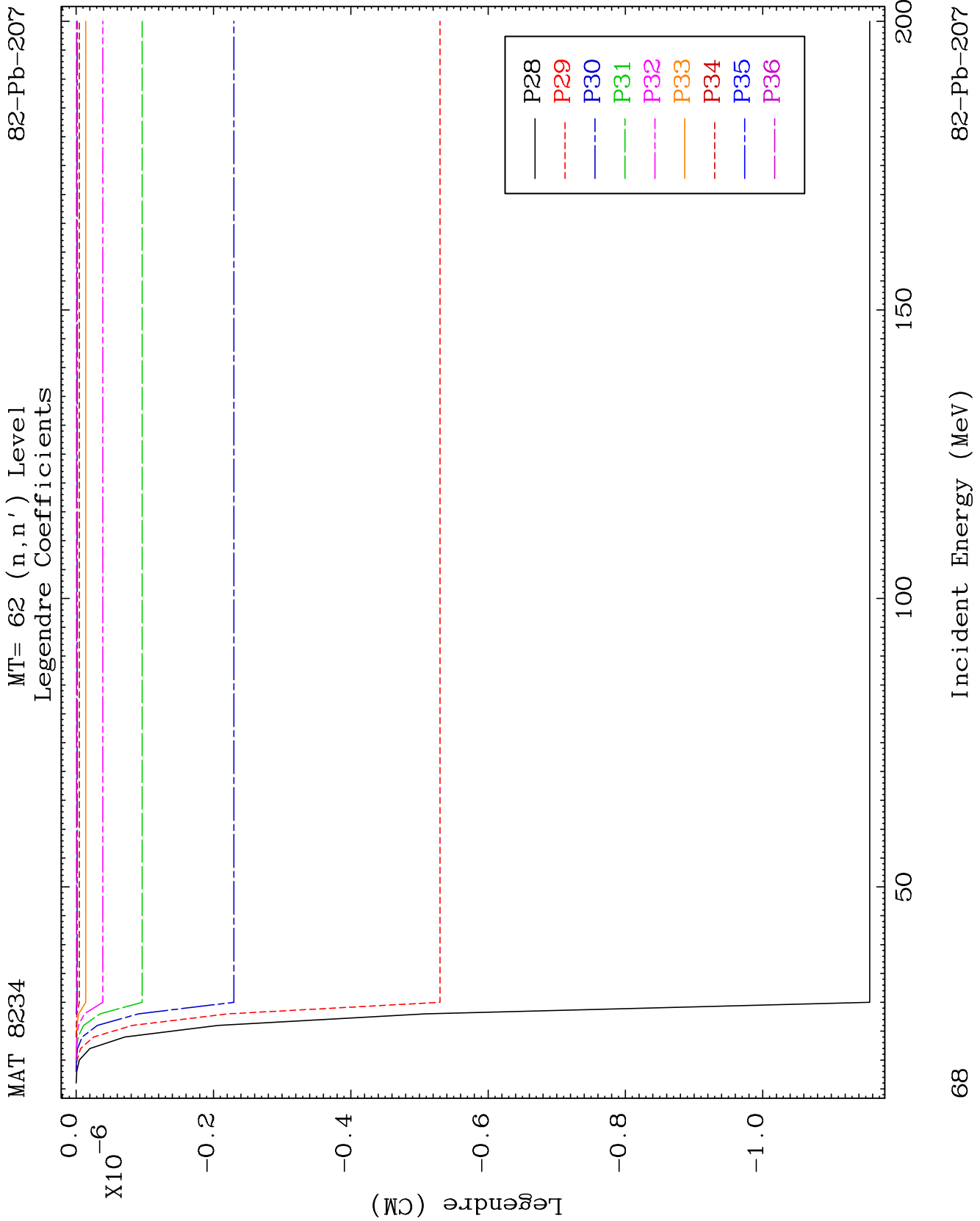
82-Pb-207



67

Incident Energy (MeV)

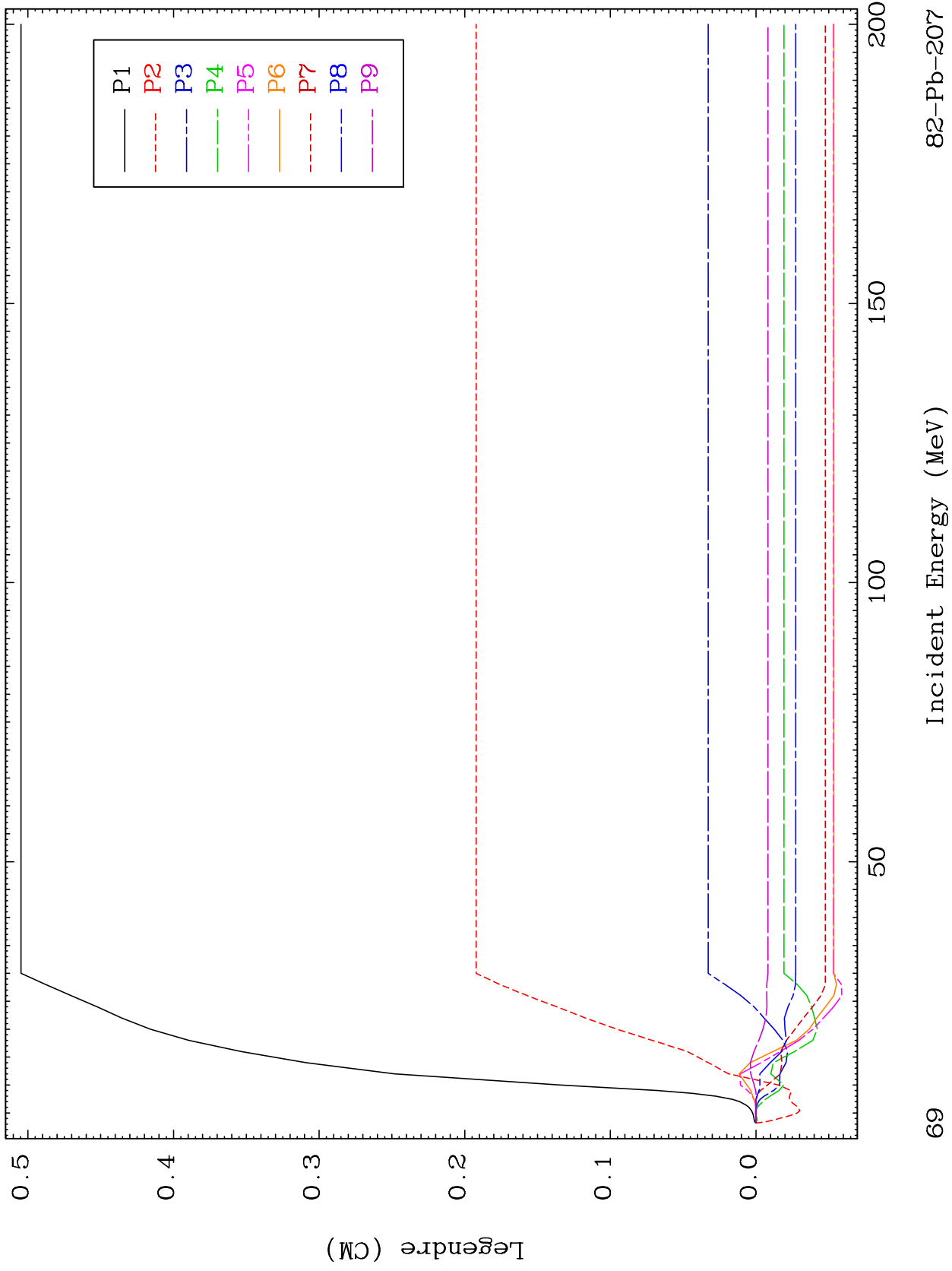
82-Pb-207



MAT 8234

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

82-Pb-207



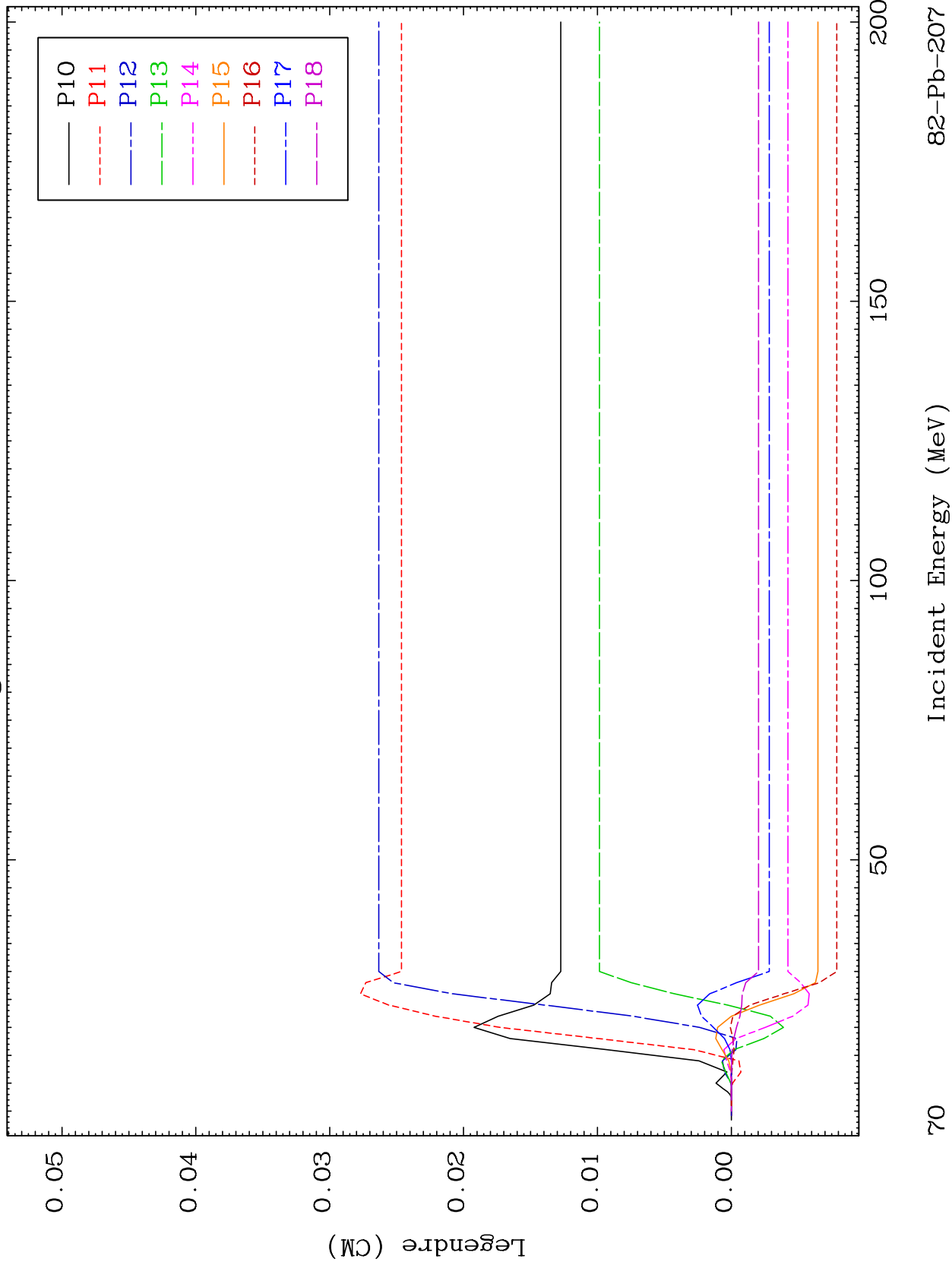
69

82-Pb-207

MAT 8234

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

82-Pb-207



70

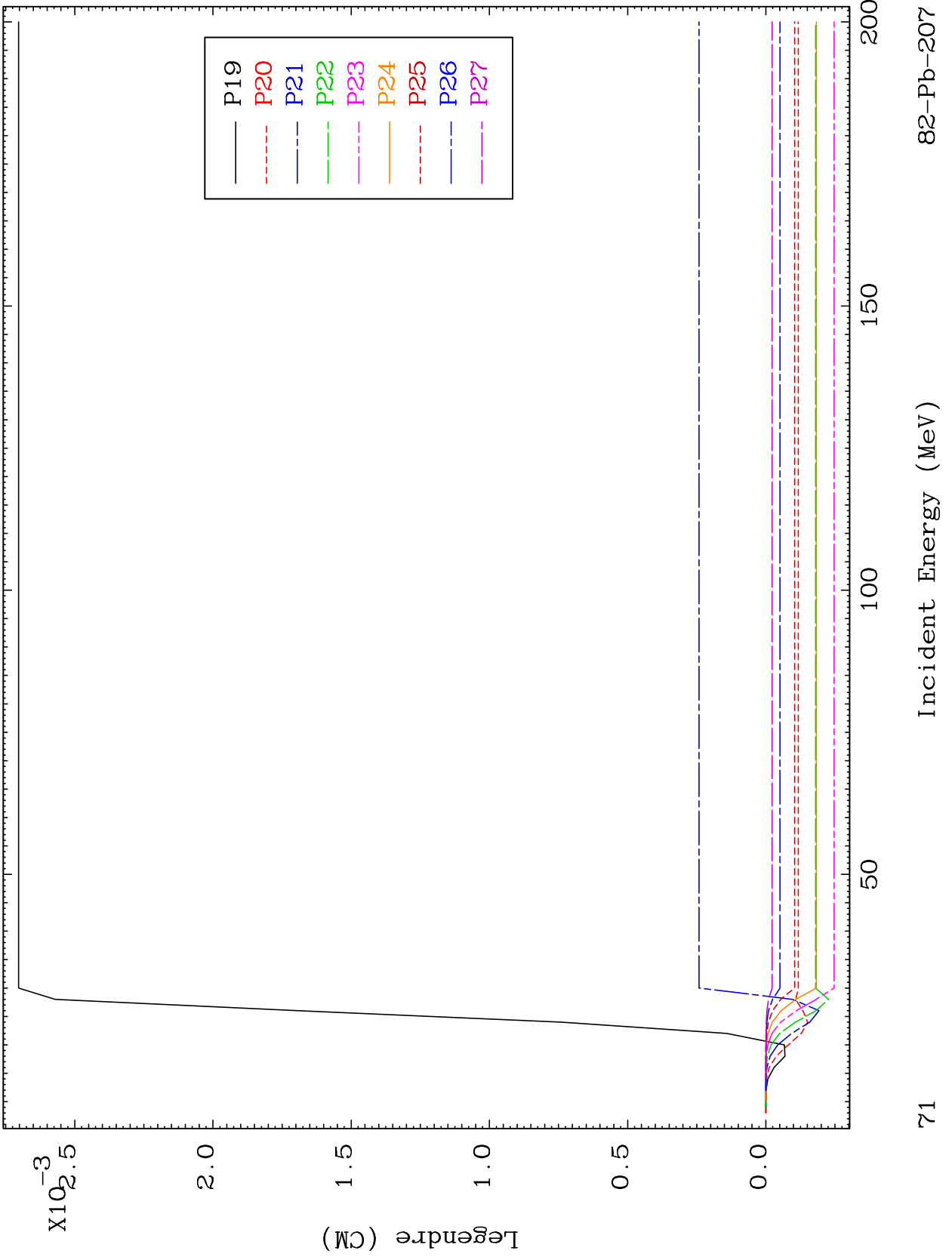
Incident Energy (MeV)

82-Pb-207

MAT 8234

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

82-Pb-207

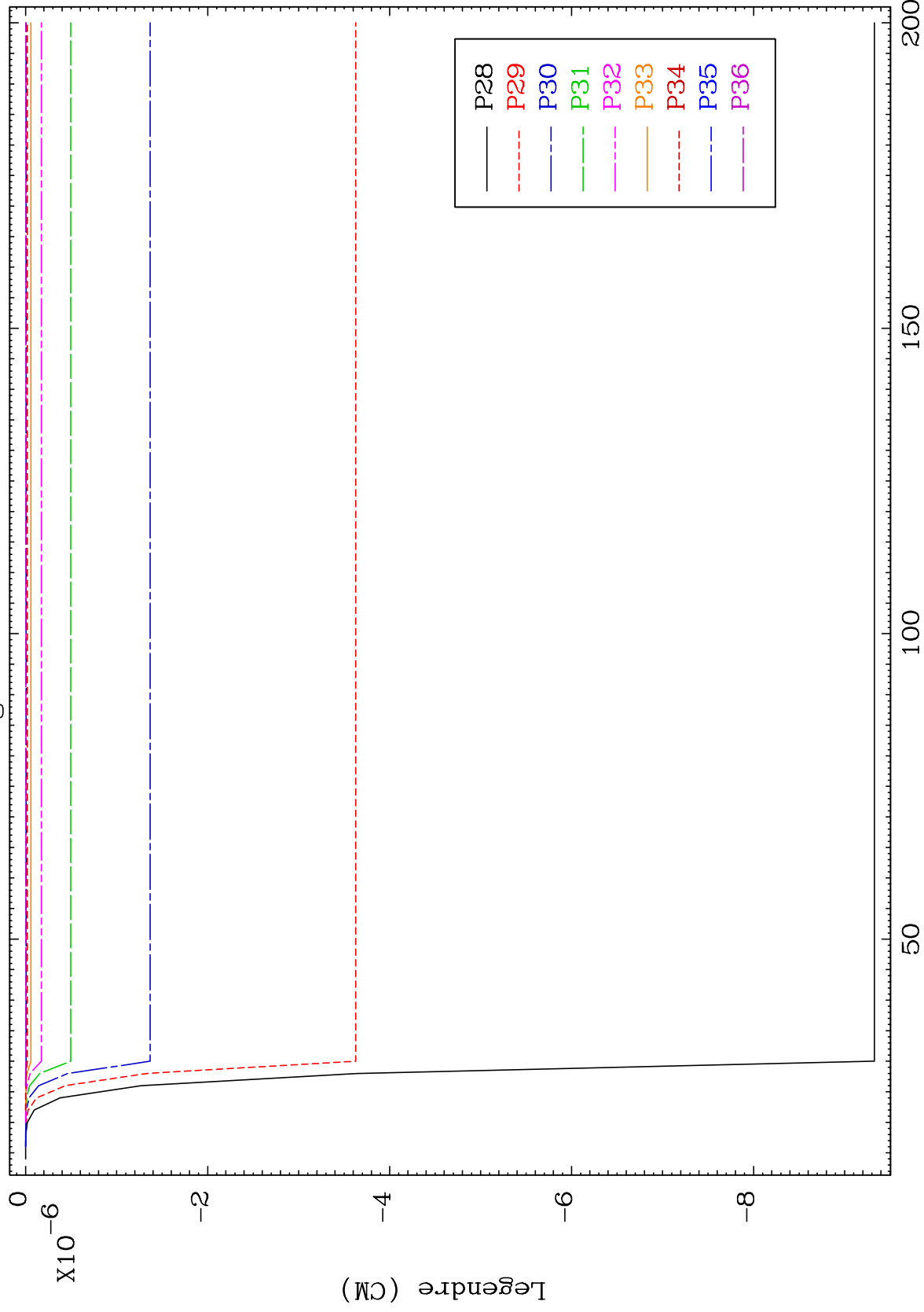




MAT 8234

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

82-Pb-207



72

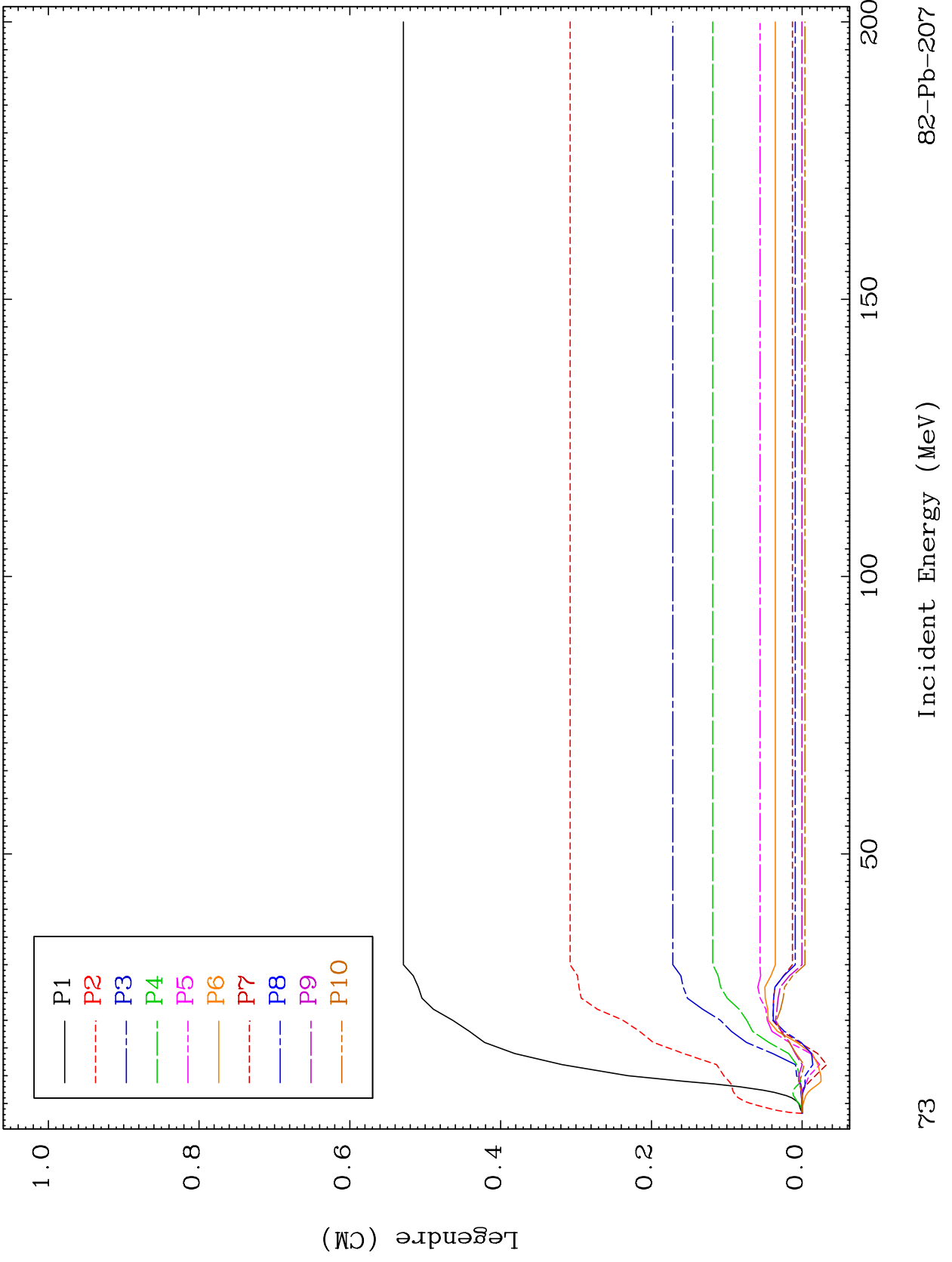
Incident Energy (MeV)

82-Pb-207

MAT 8234

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

82-Pb-207

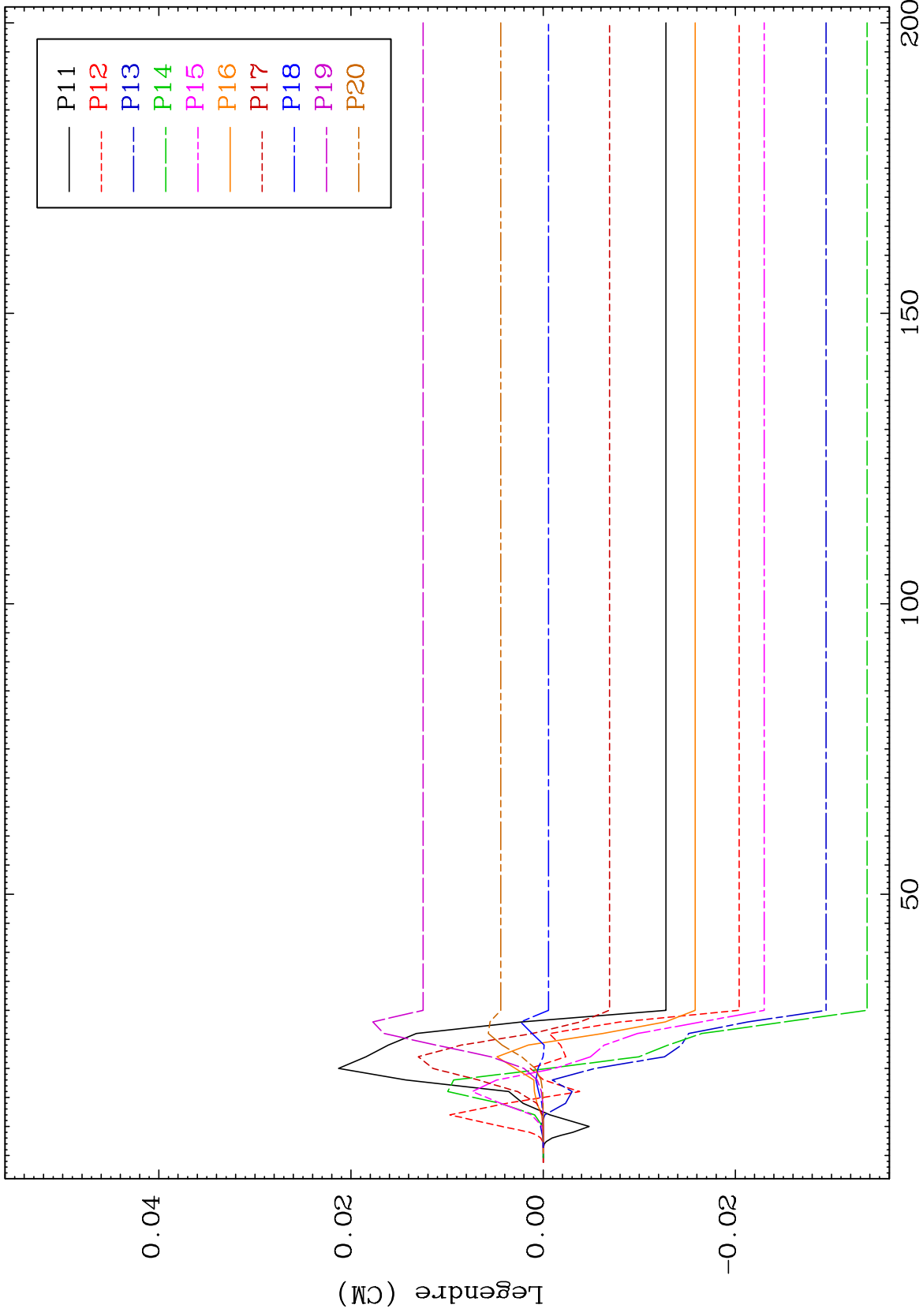


73

MAT 8234

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

82-Pb-207



74

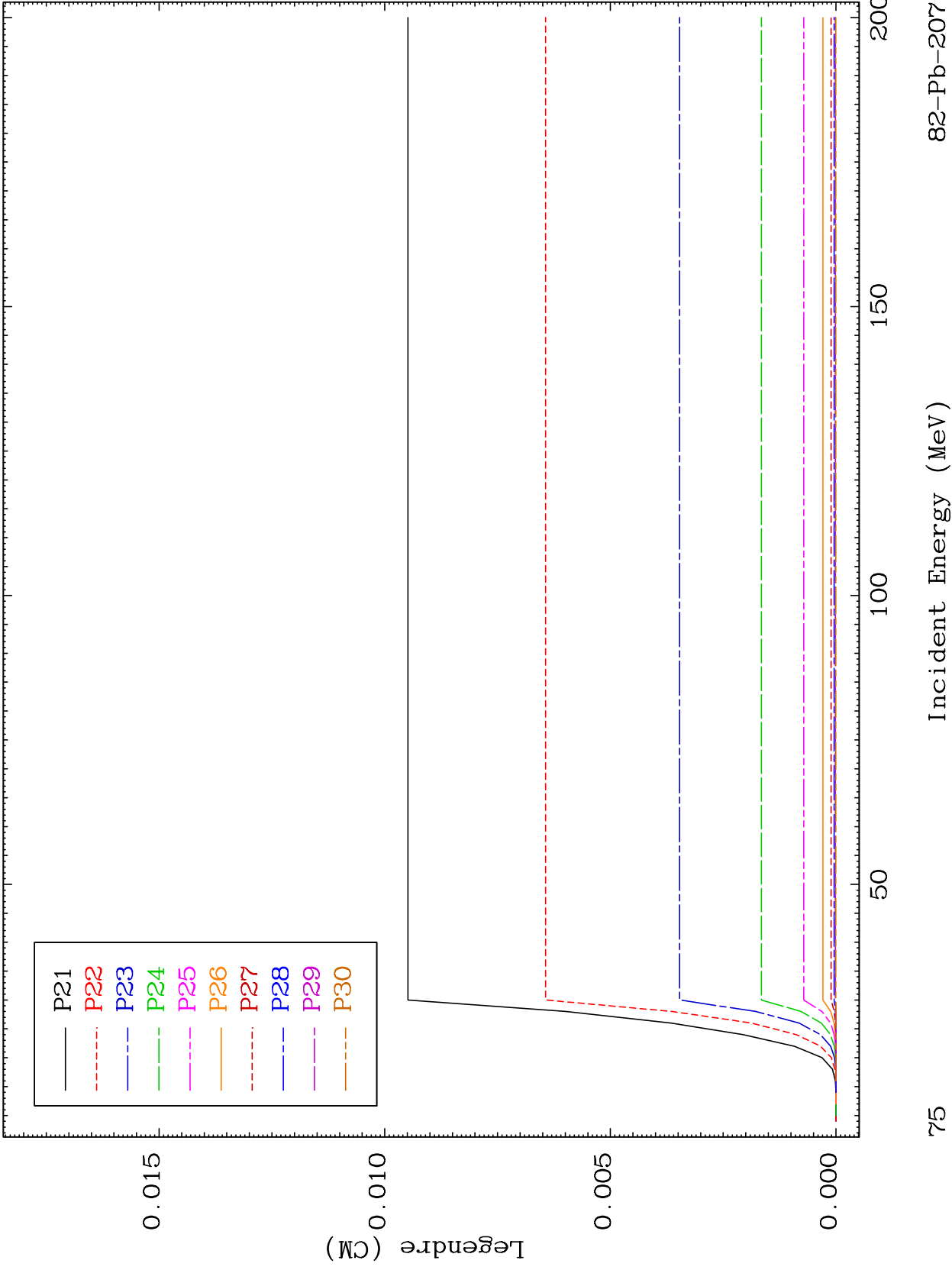
Incident Energy (MeV)

82-Pb-207

MAT 8234

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

82-Pb-207



75

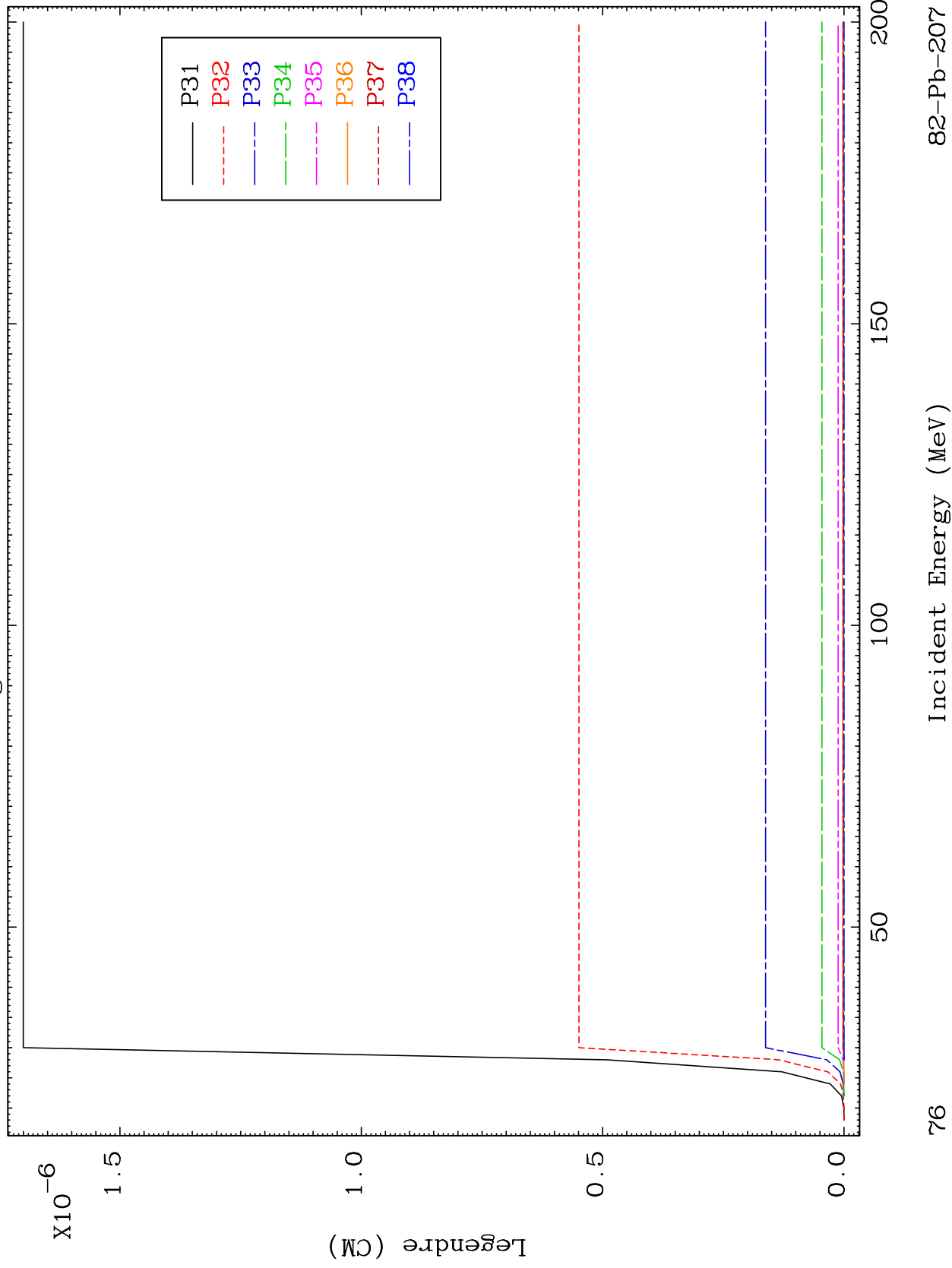
Incident Energy (MeV)

82-Pb-207

MAT 8234

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

82-Pb-207

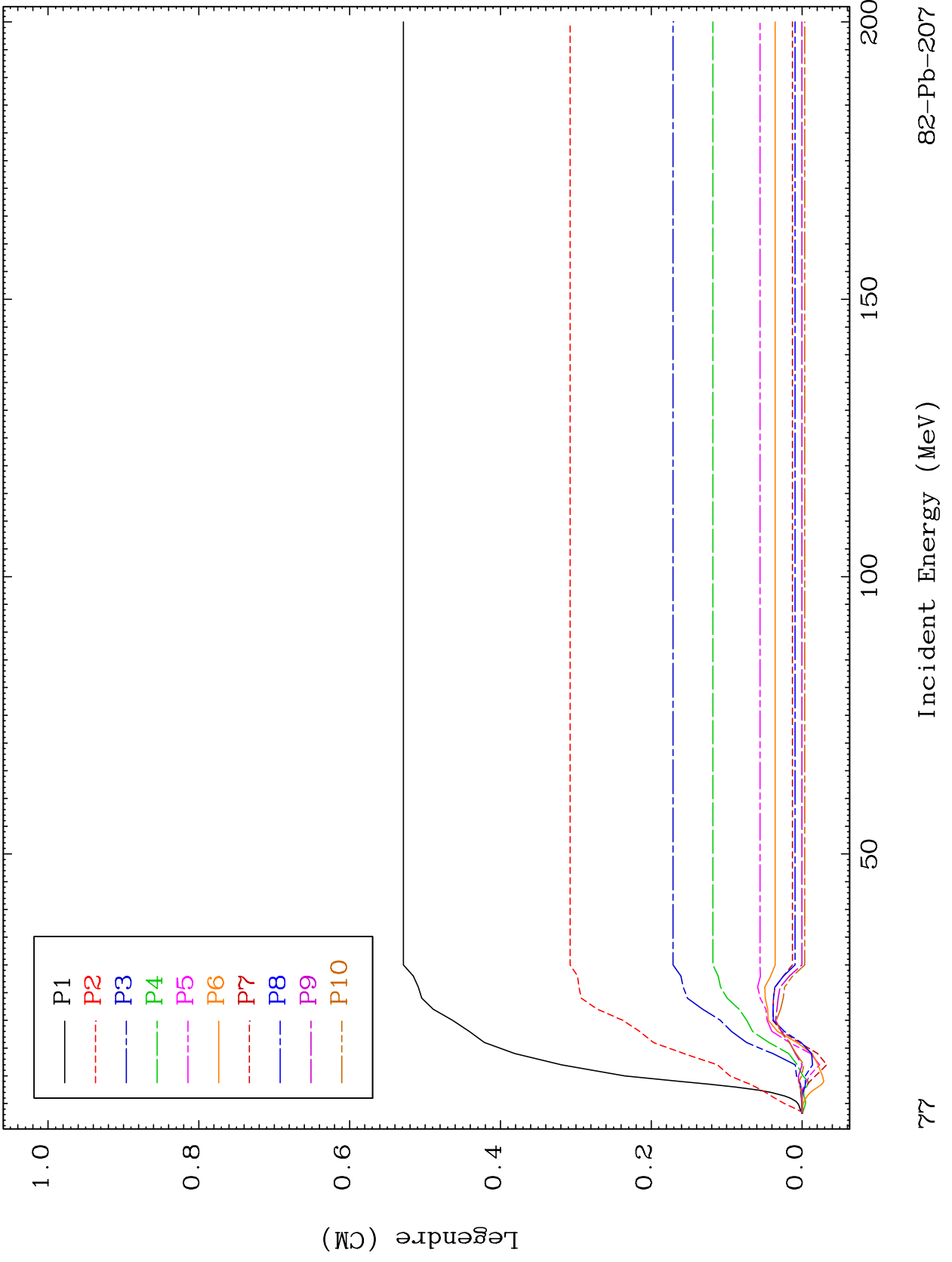


76

MAT 8234

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

82-Pb-207

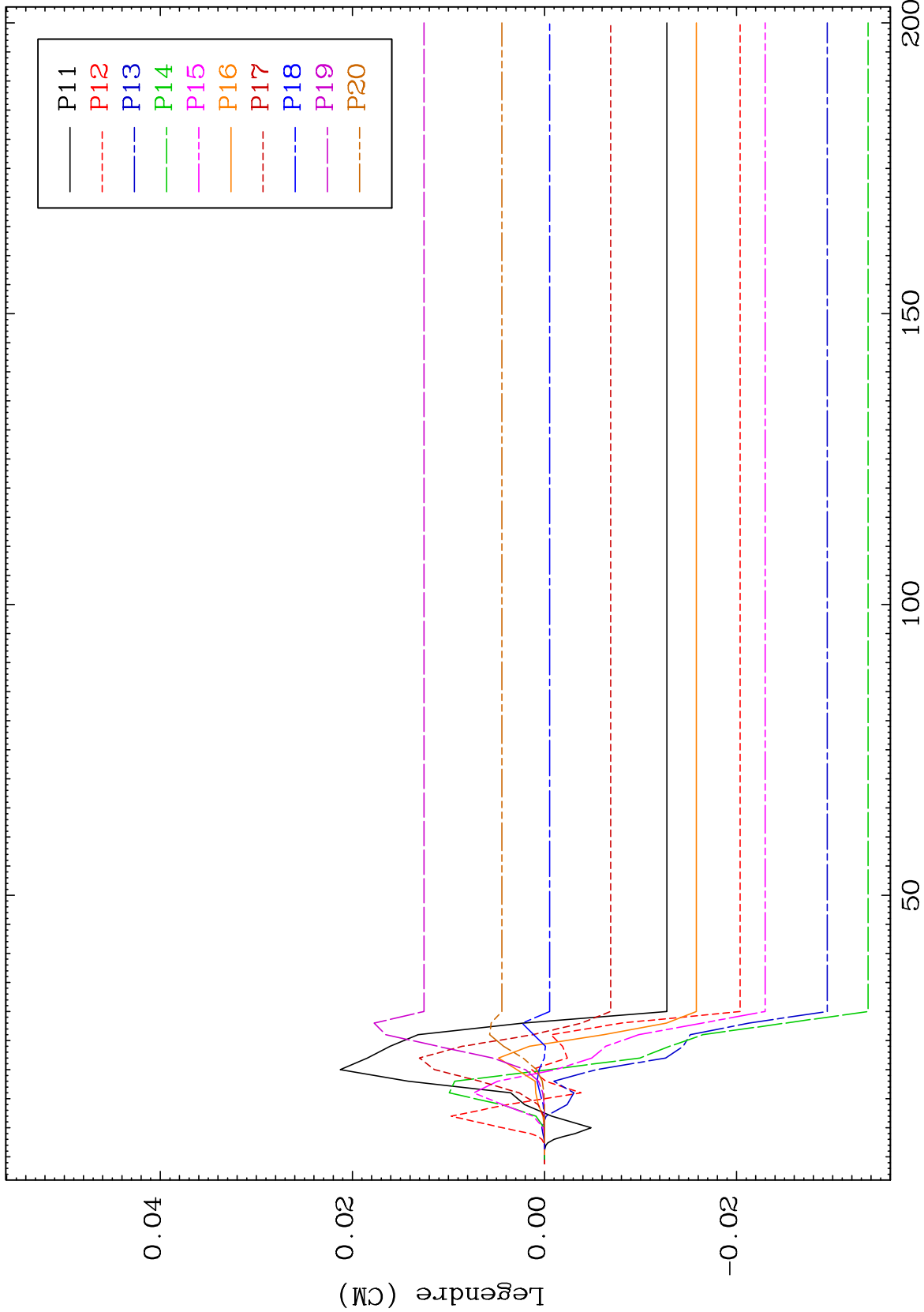


77

MAT 8234

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

82-Pb-207



78

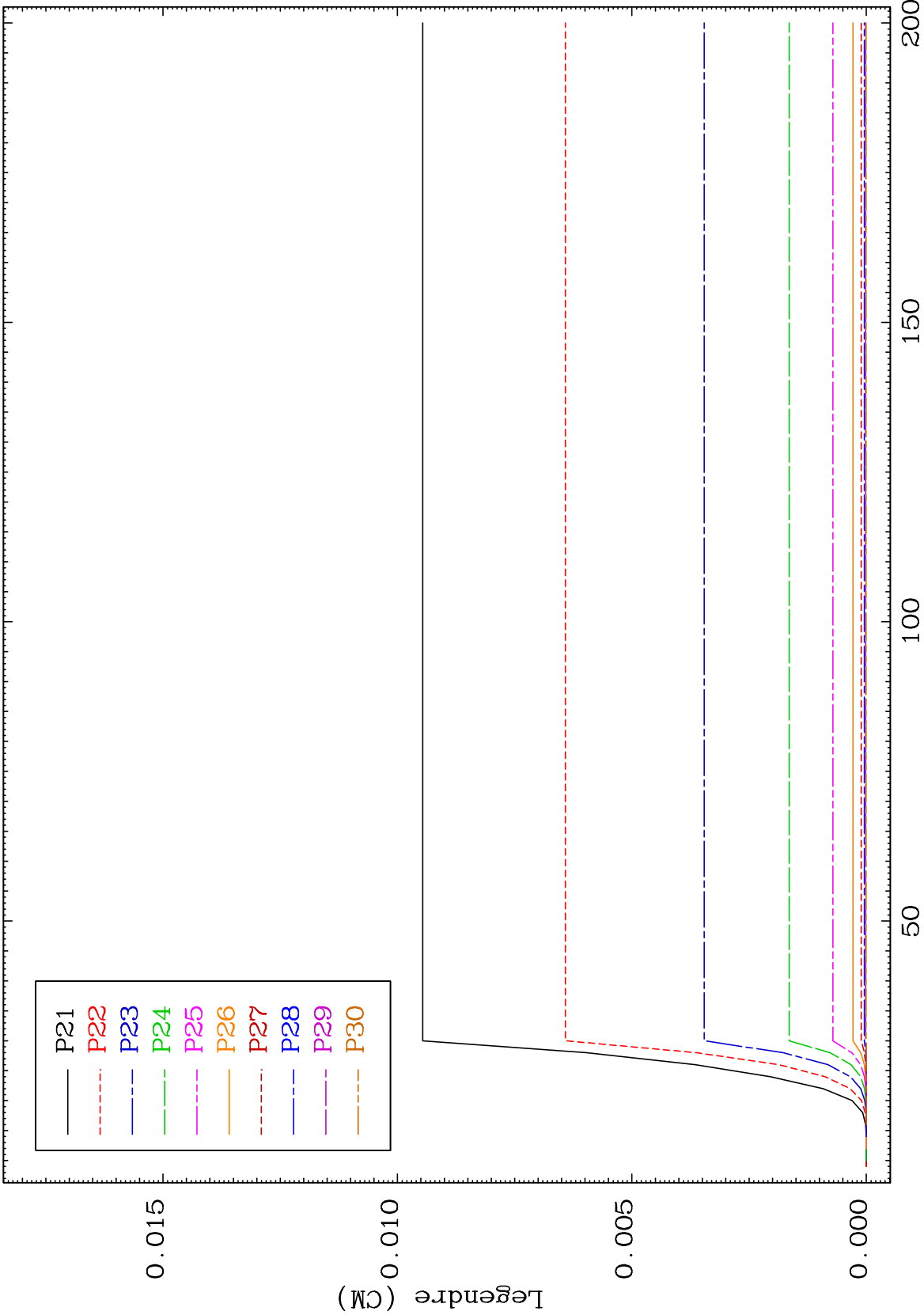
Incident Energy (MeV)

82-Pb-207

MAT 8234

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

82-Pb-207



79

Incident Energy (MeV)

82-Pb-207



MAT 8234

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

82-Pb-207

$\times 10^{-6}$

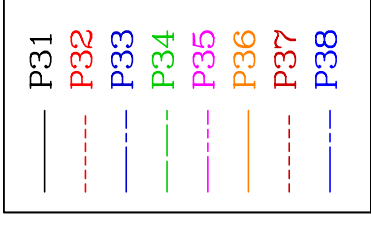
1.5

Legendre (CM)

1.0

0.5

0.0



200

150

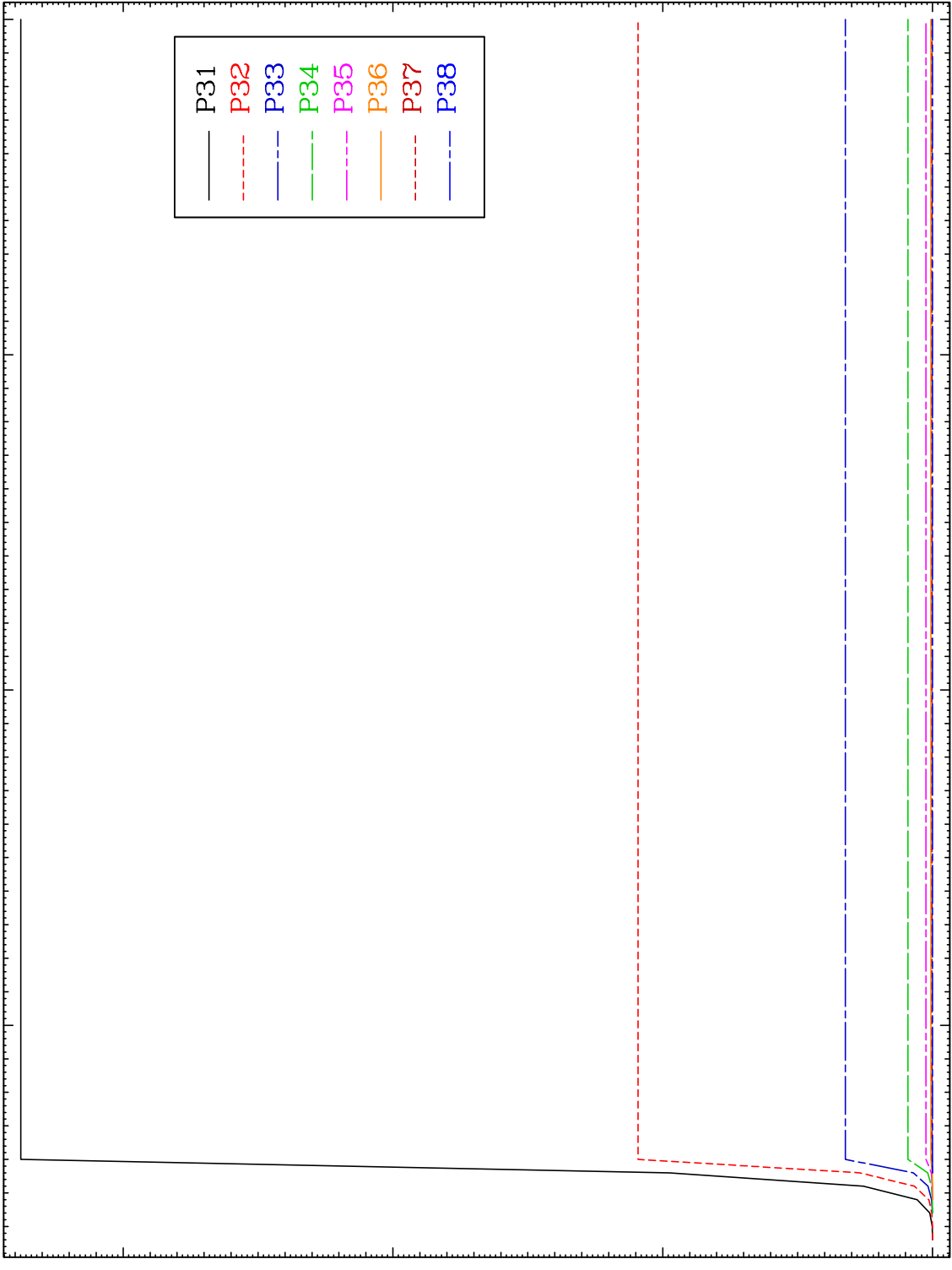
100

50

80

Incident Energy (MeV)

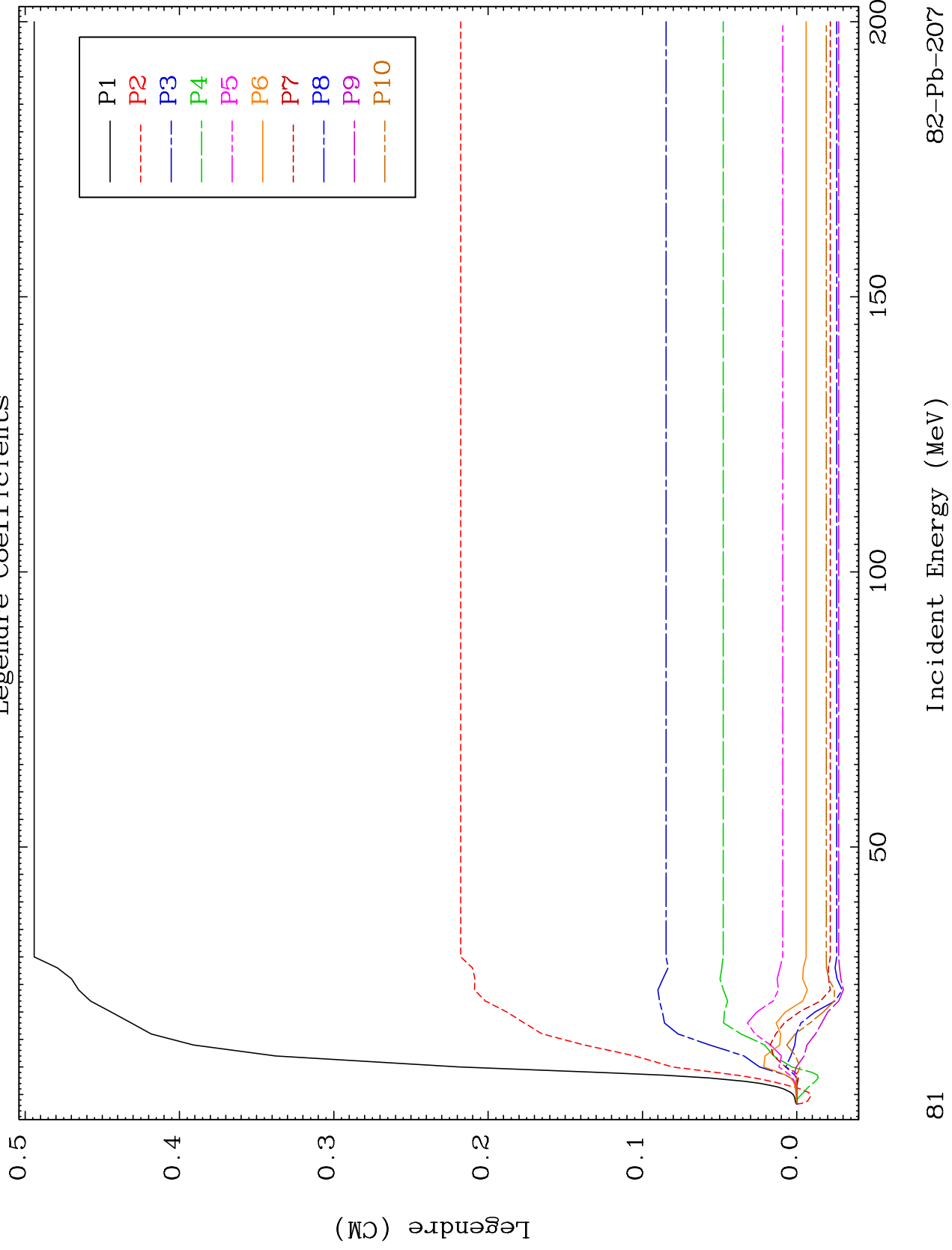
82-Pb-207



MAT 8234

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

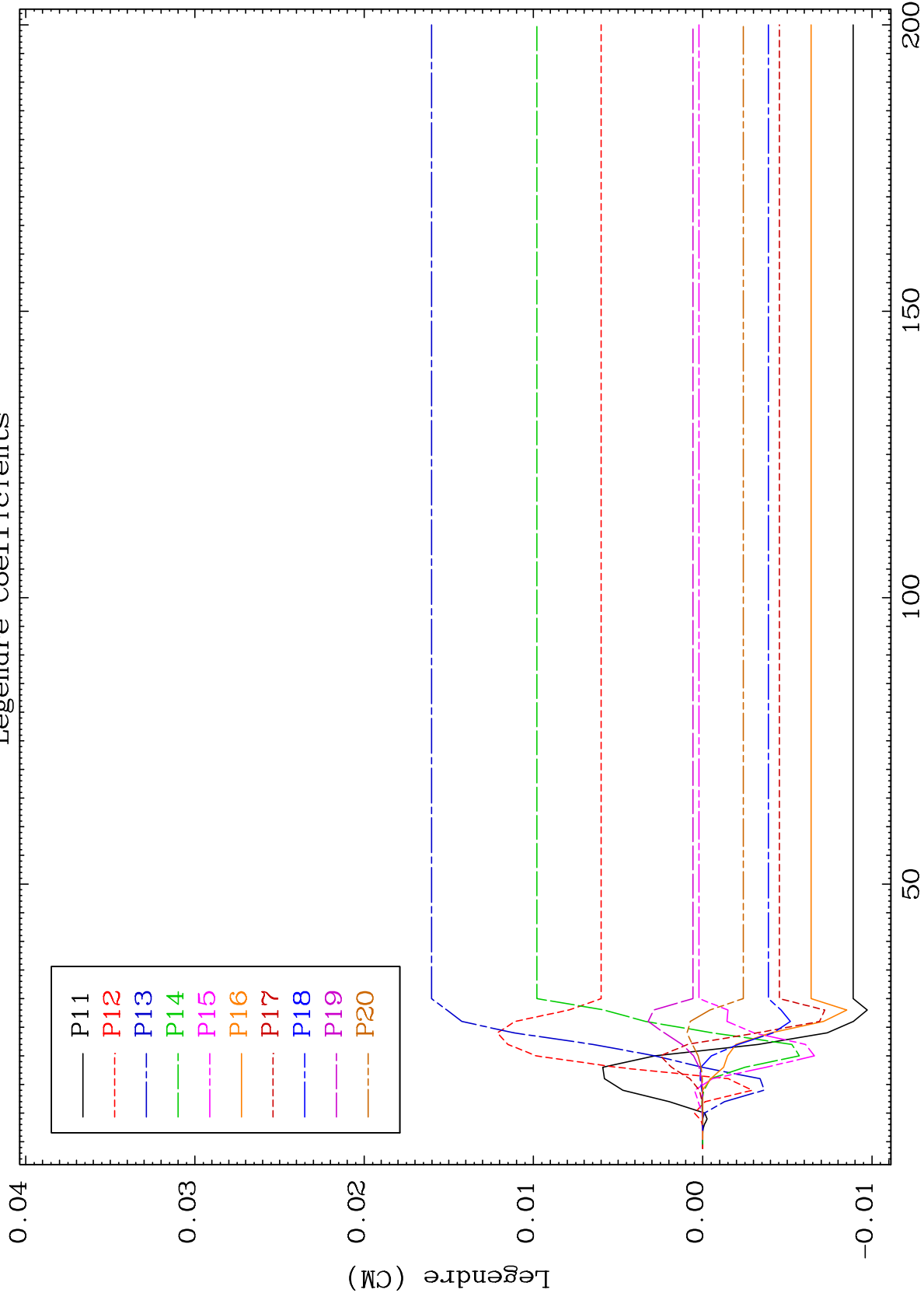
82-Pb-207



MAT 8234

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

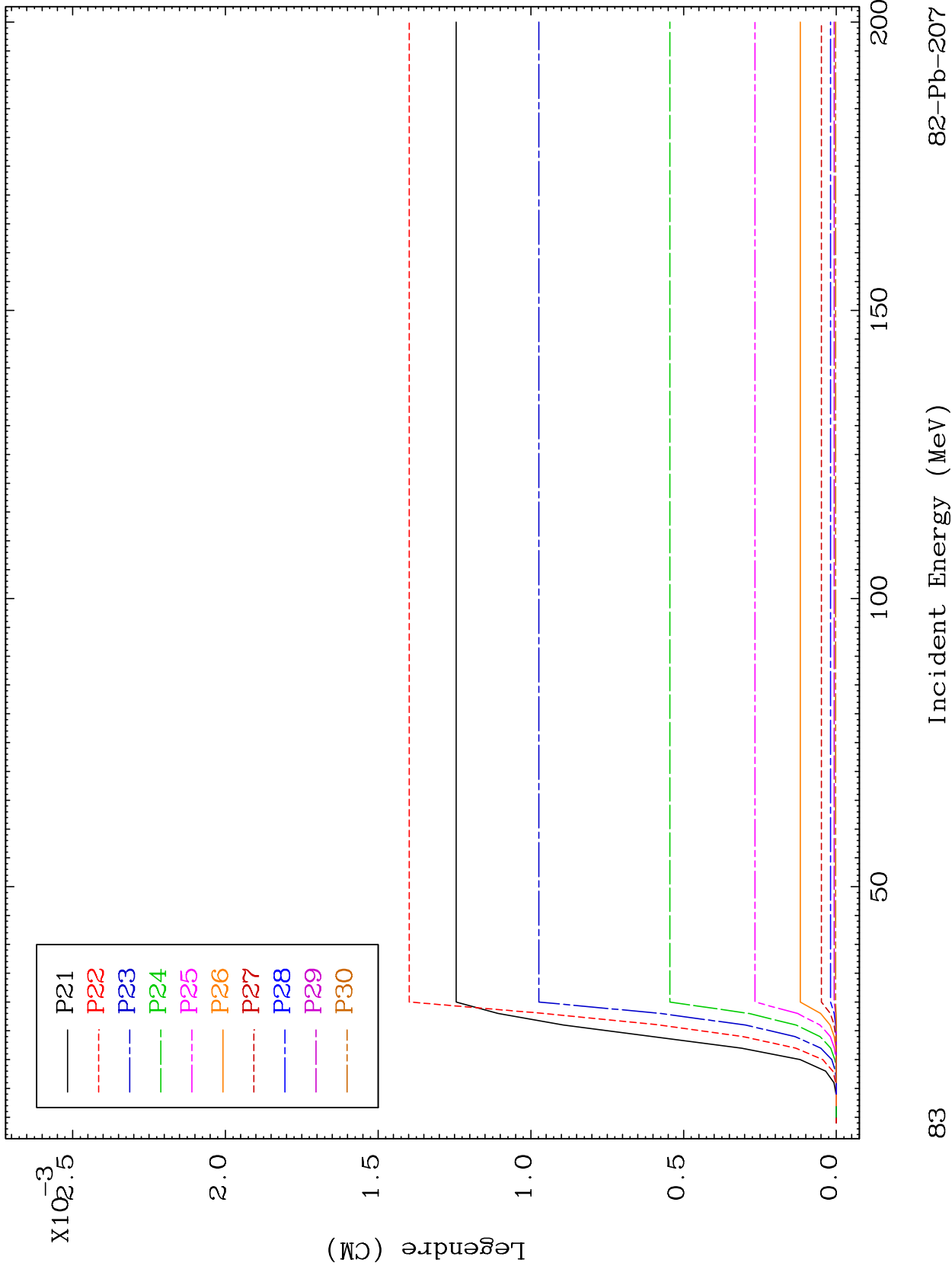
82-Pb-207



82

Incident Energy (MeV)

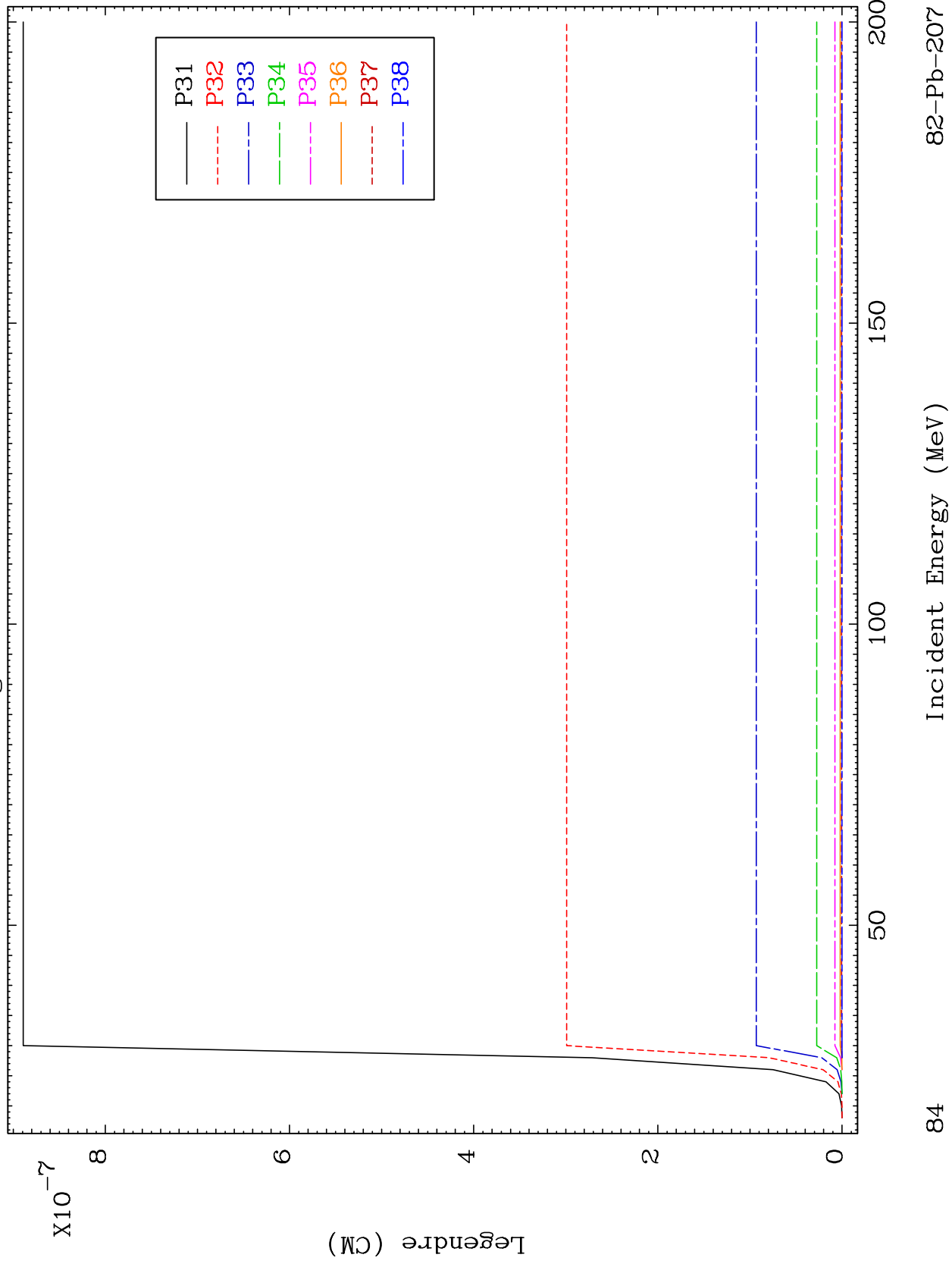
82-Pb-207



MAT 8234

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

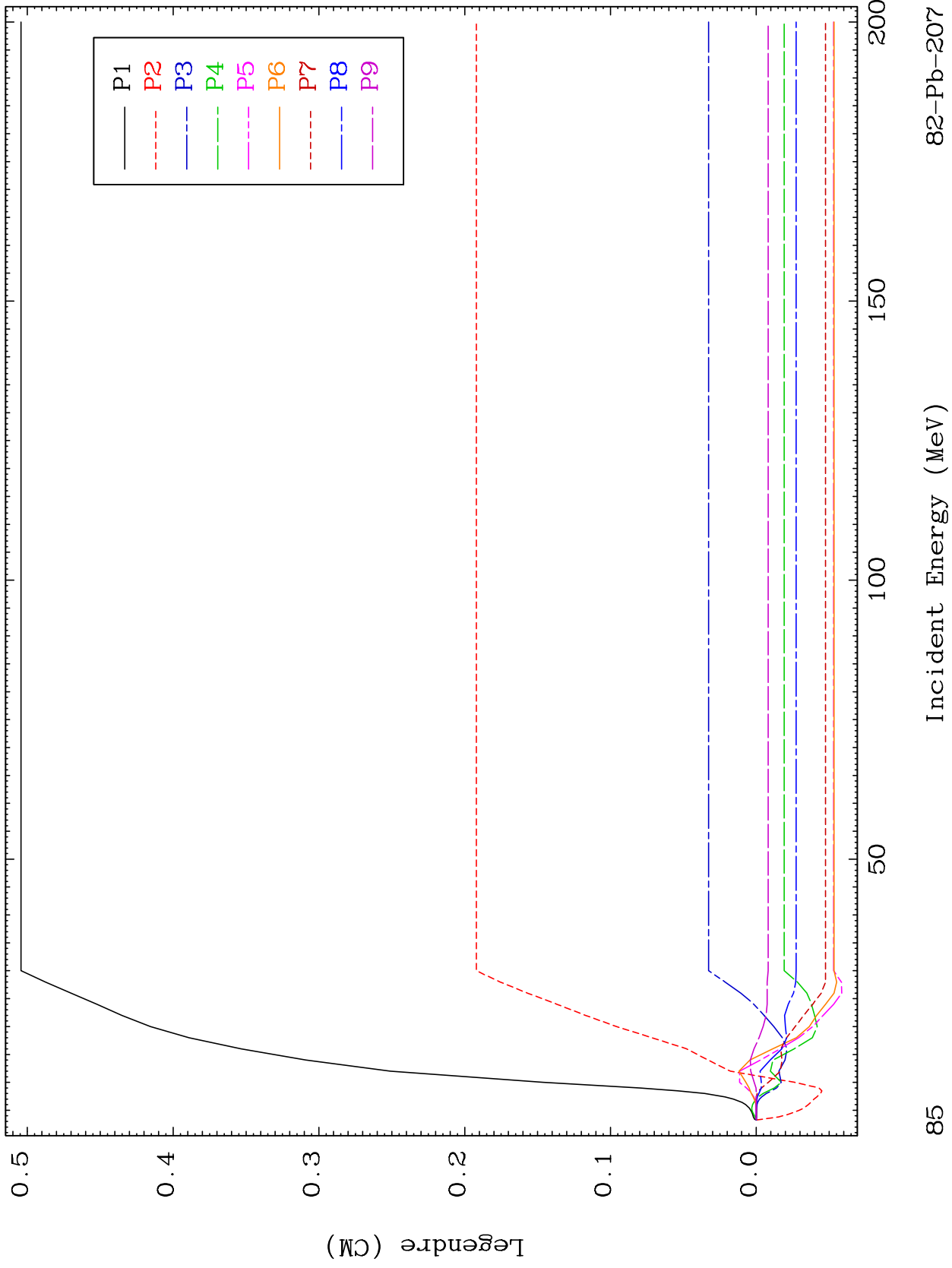
82-Pb-207



MAT 8234

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

82-Pb-207



85

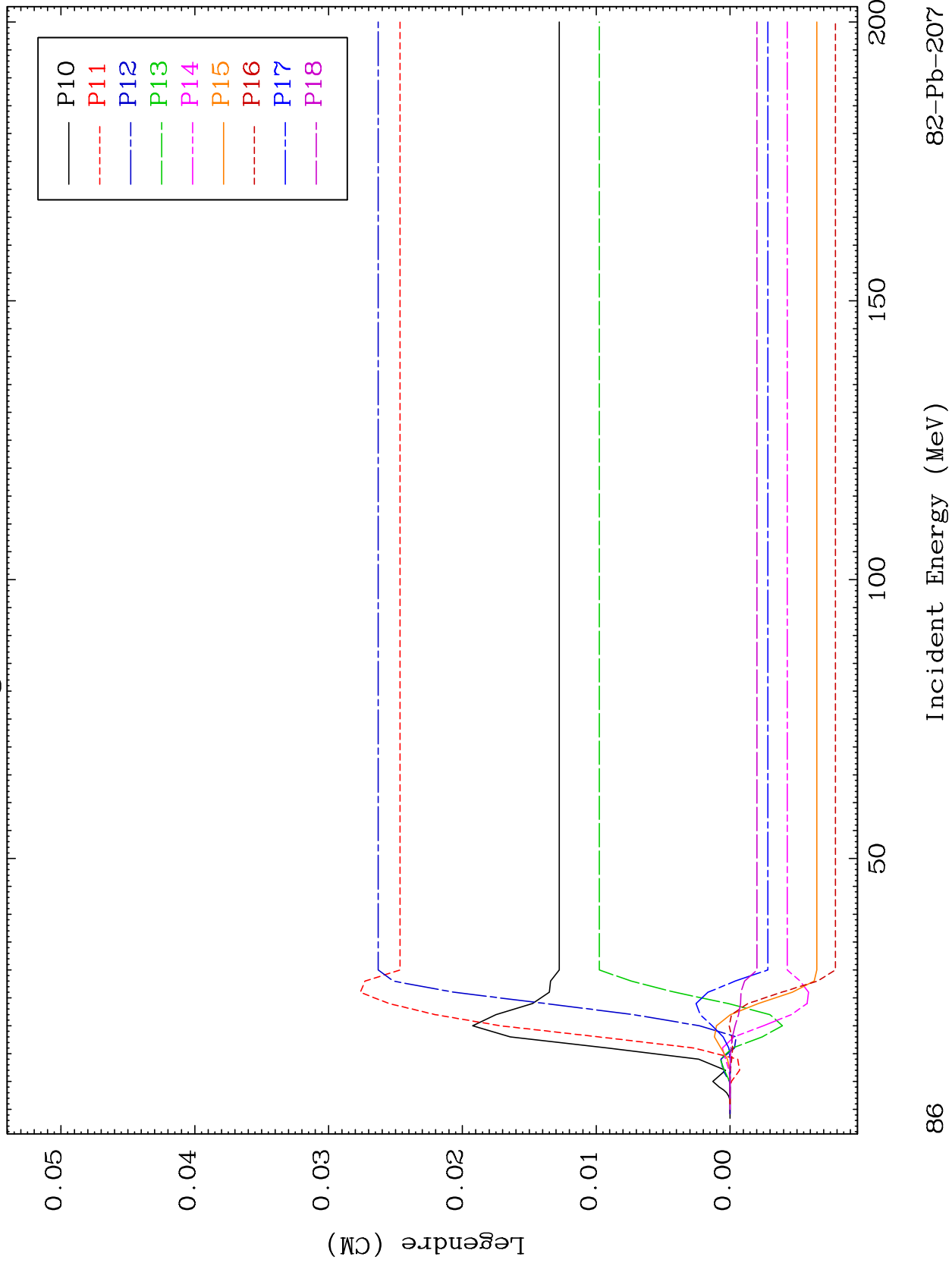
Incident Energy (MeV)

82-Pb-207

MAT 8234

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

82-Pb-207



86

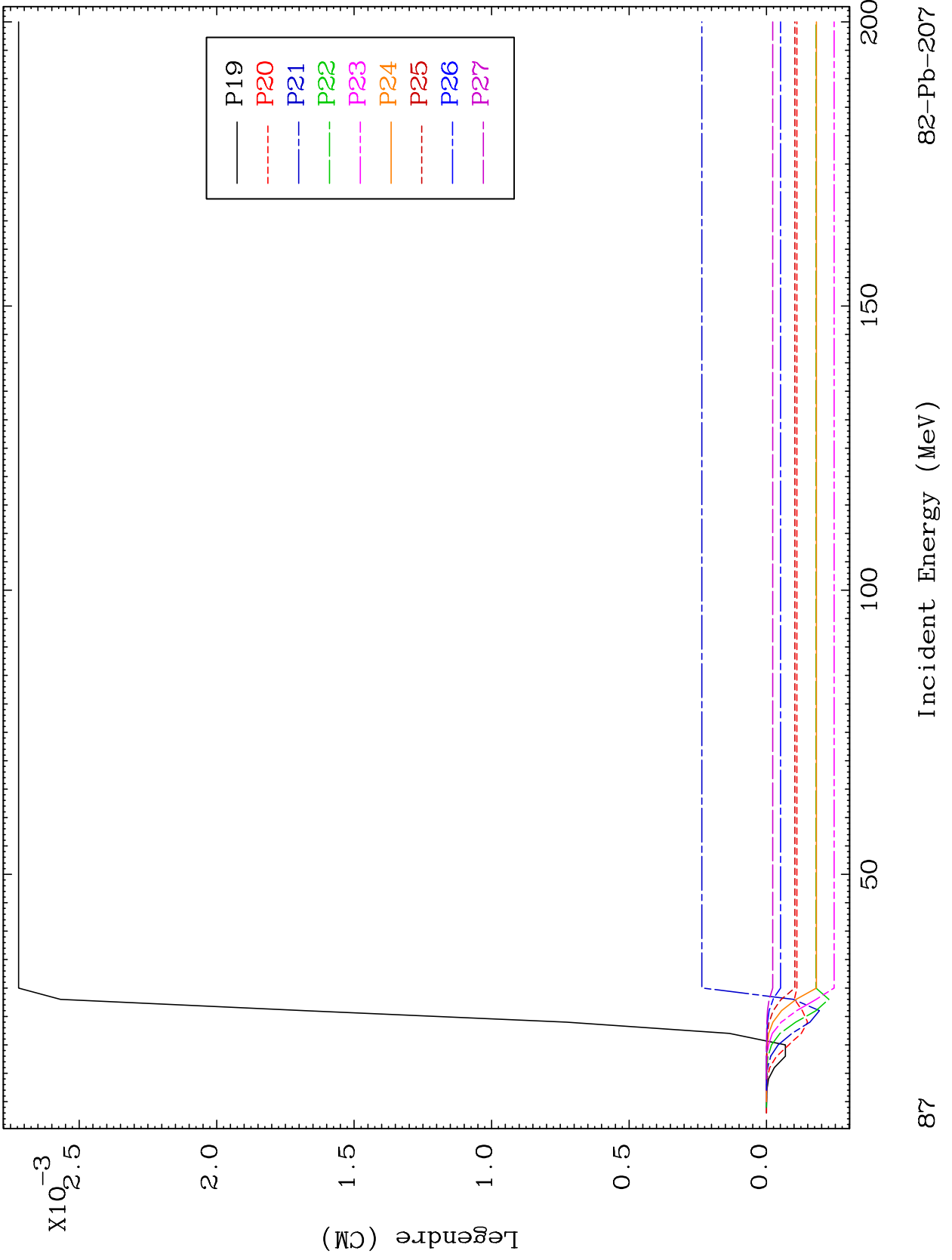
Incident Energy (MeV)

82-Pb-207

MAT 8234

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

82-Pb-207



87

Incident Energy (MeV)

82-Pb-207

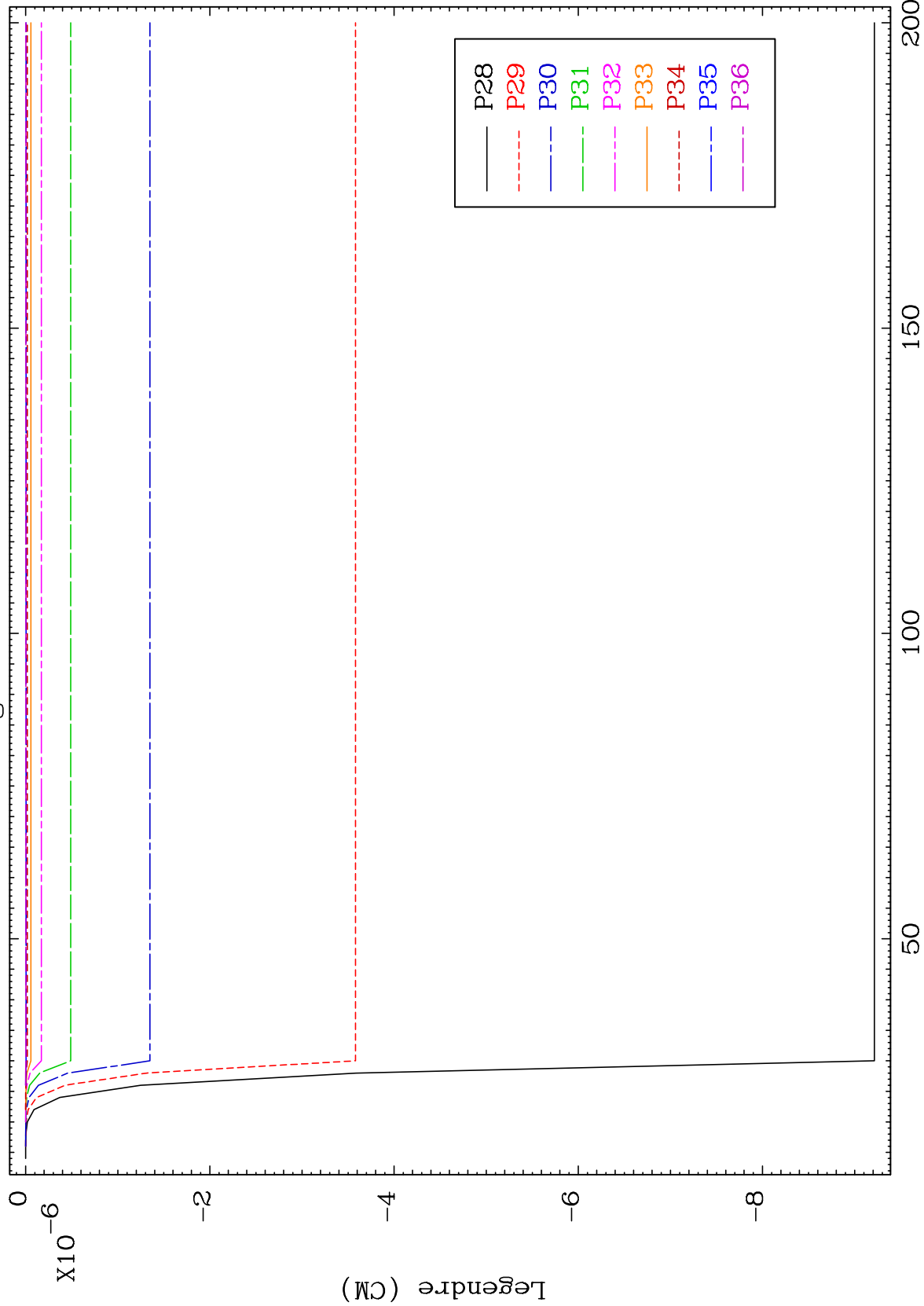


MAT 8234

MT= 67 (n,n') Level

82-Pb-207

Legendre Coefficients



88

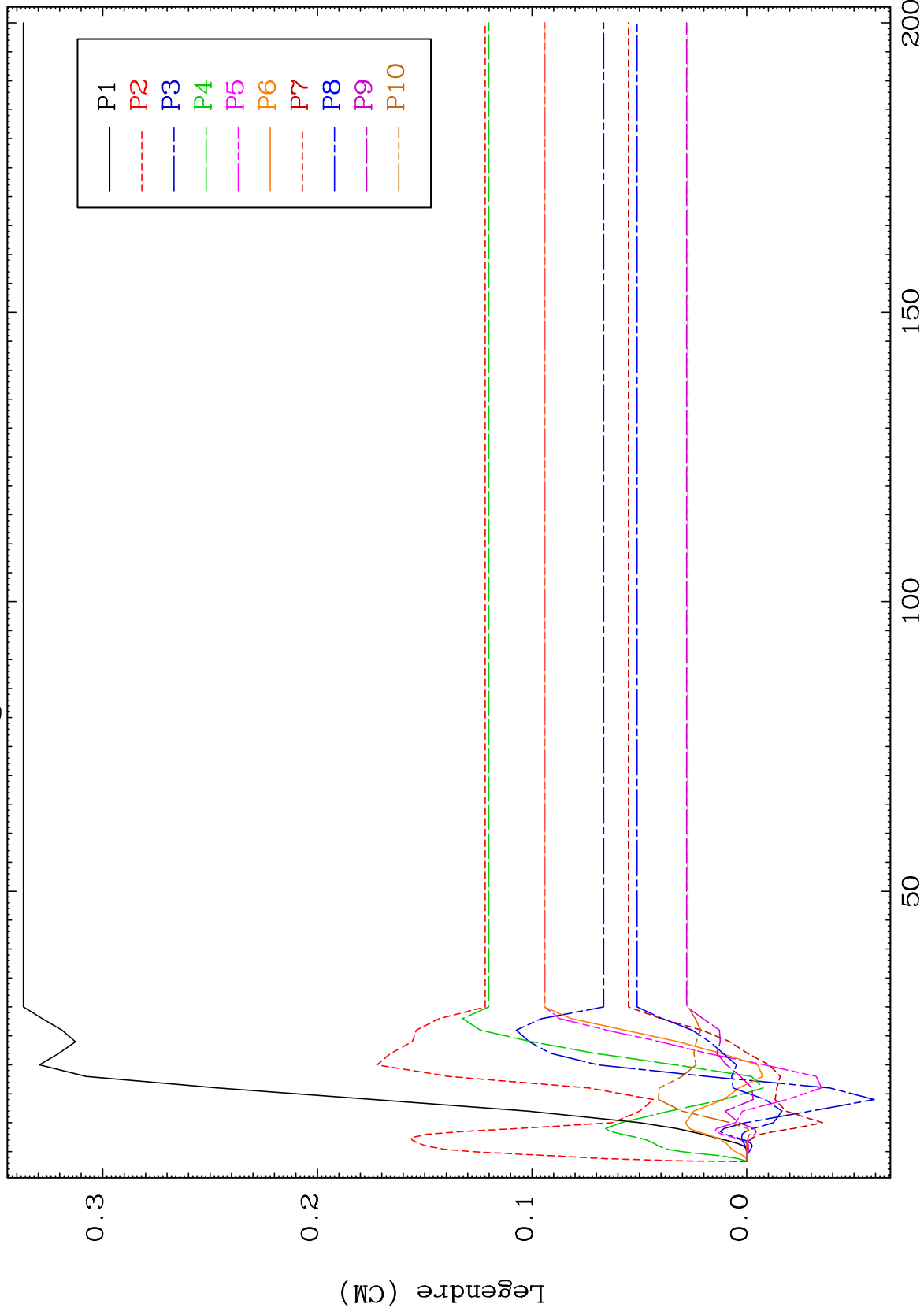
Incident Energy (MeV)

82-Pb-207

MAT 8234

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

82-Pb-207



89

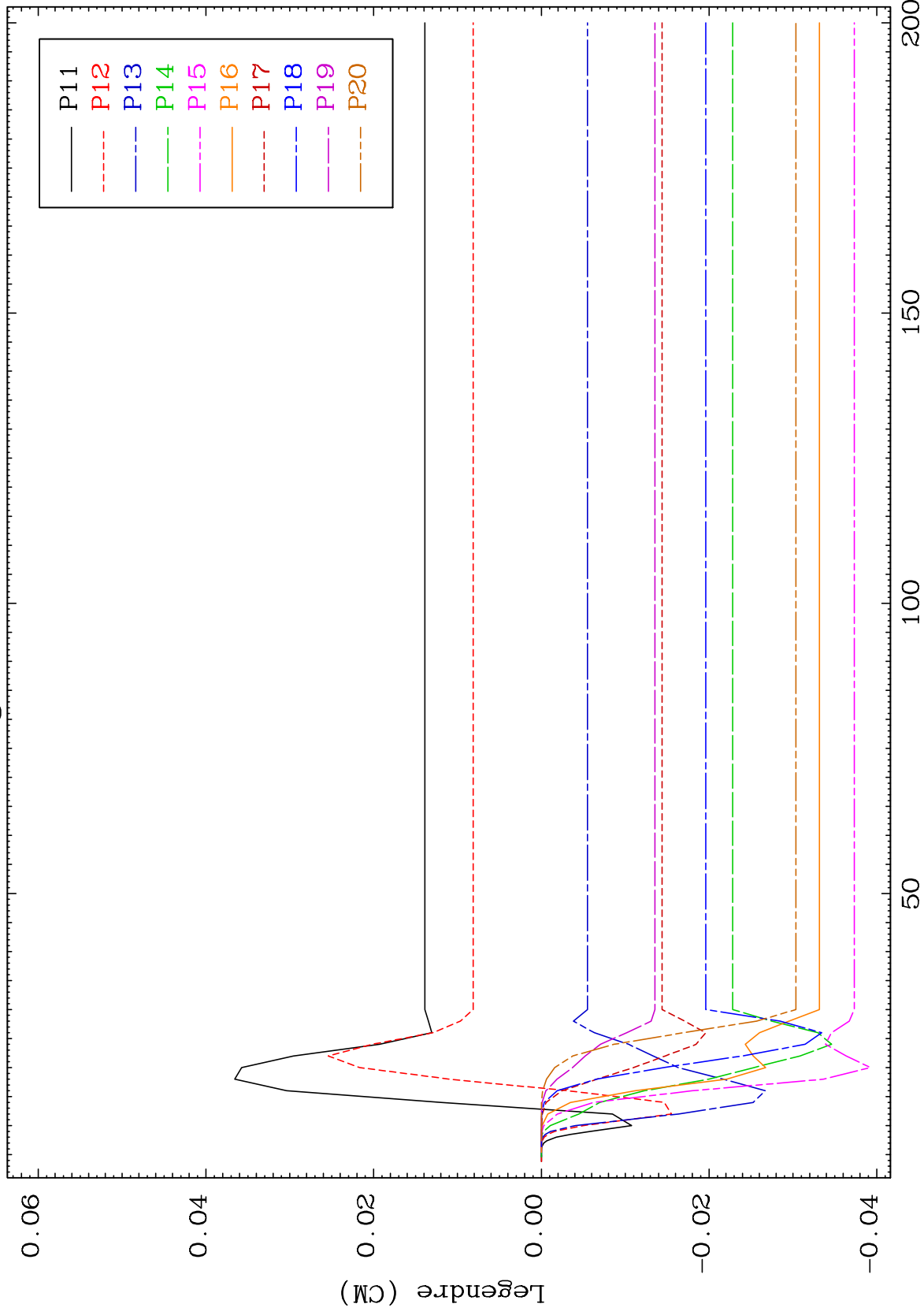
Incident Energy (MeV)

82-Pb-207

MAT 8234

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

82-Pb-207



90

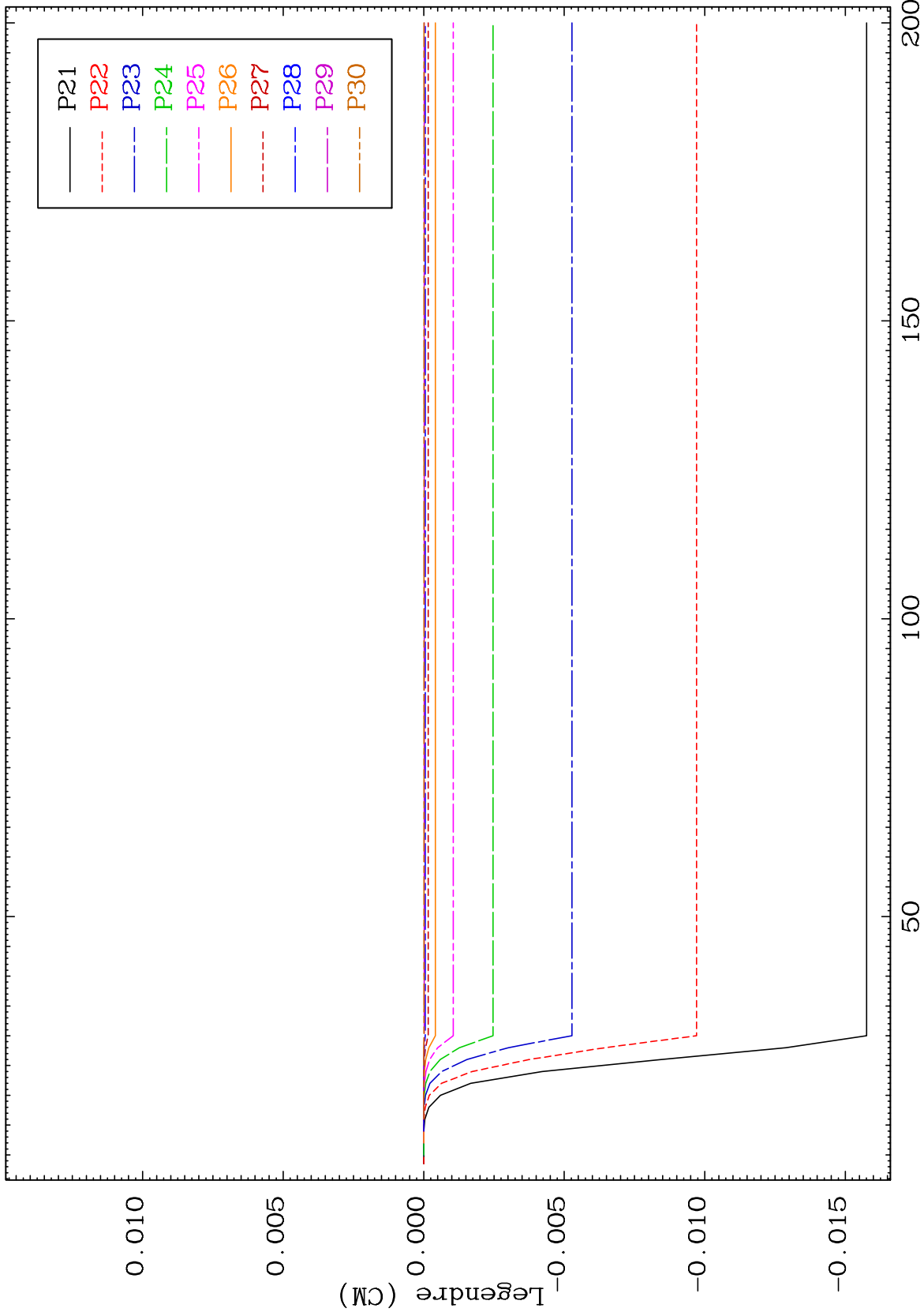
Incident Energy (MeV)

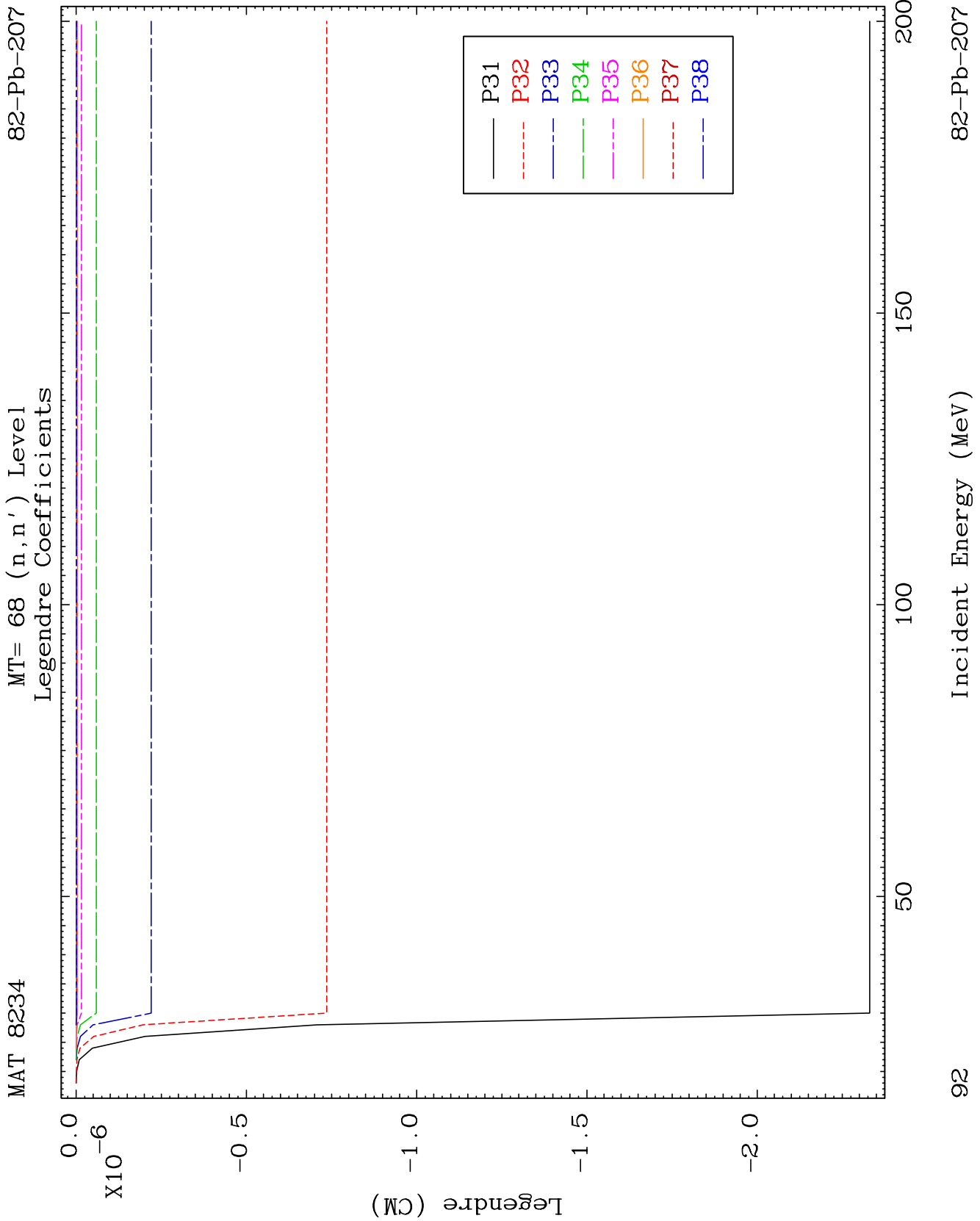
82-Pb-207

MAT 8234

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

82-Pb-207

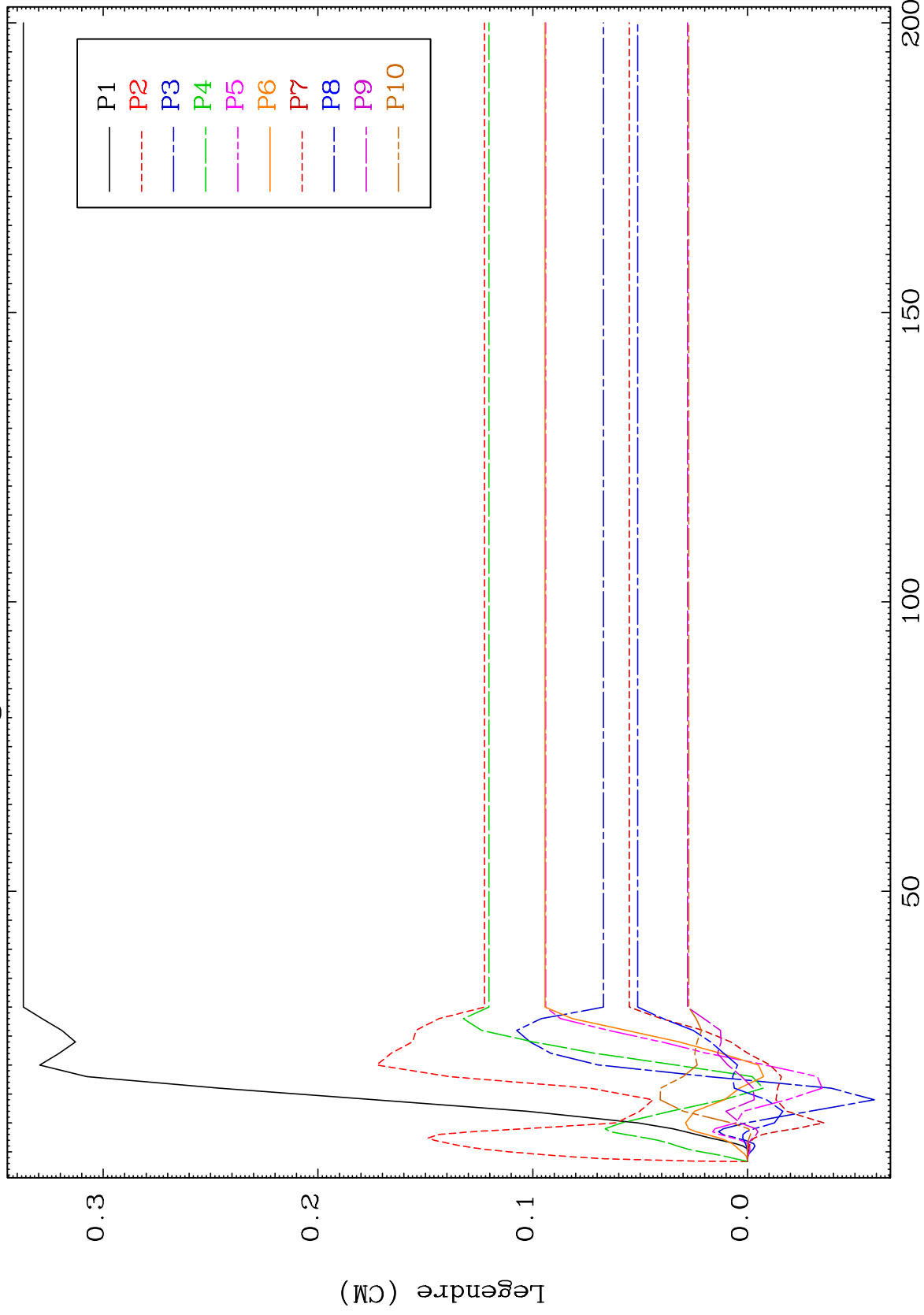




MAT 8234

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

82-Pb-207



93

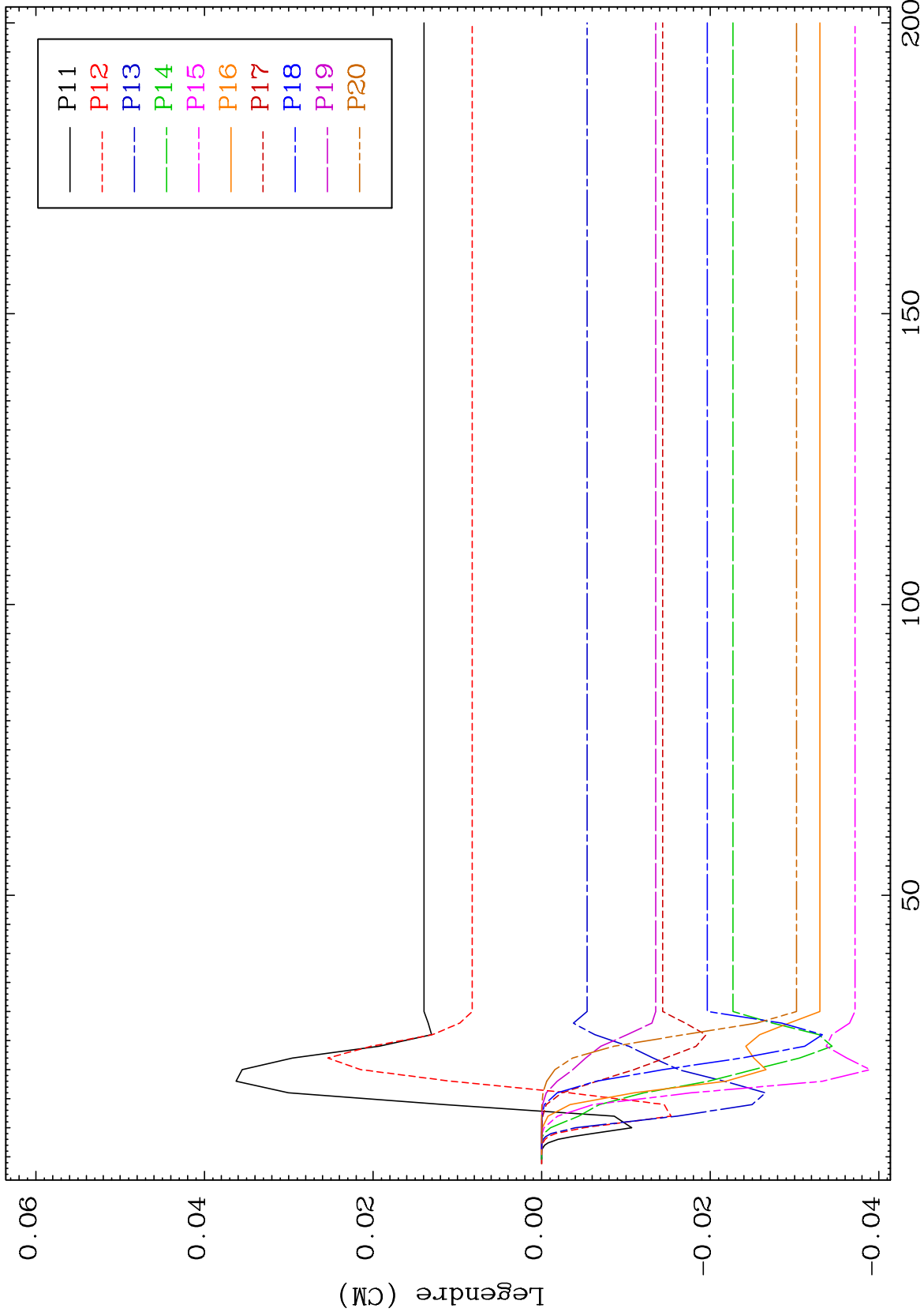
Incident Energy (MeV)

82-Pb-207

MAT 8234

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

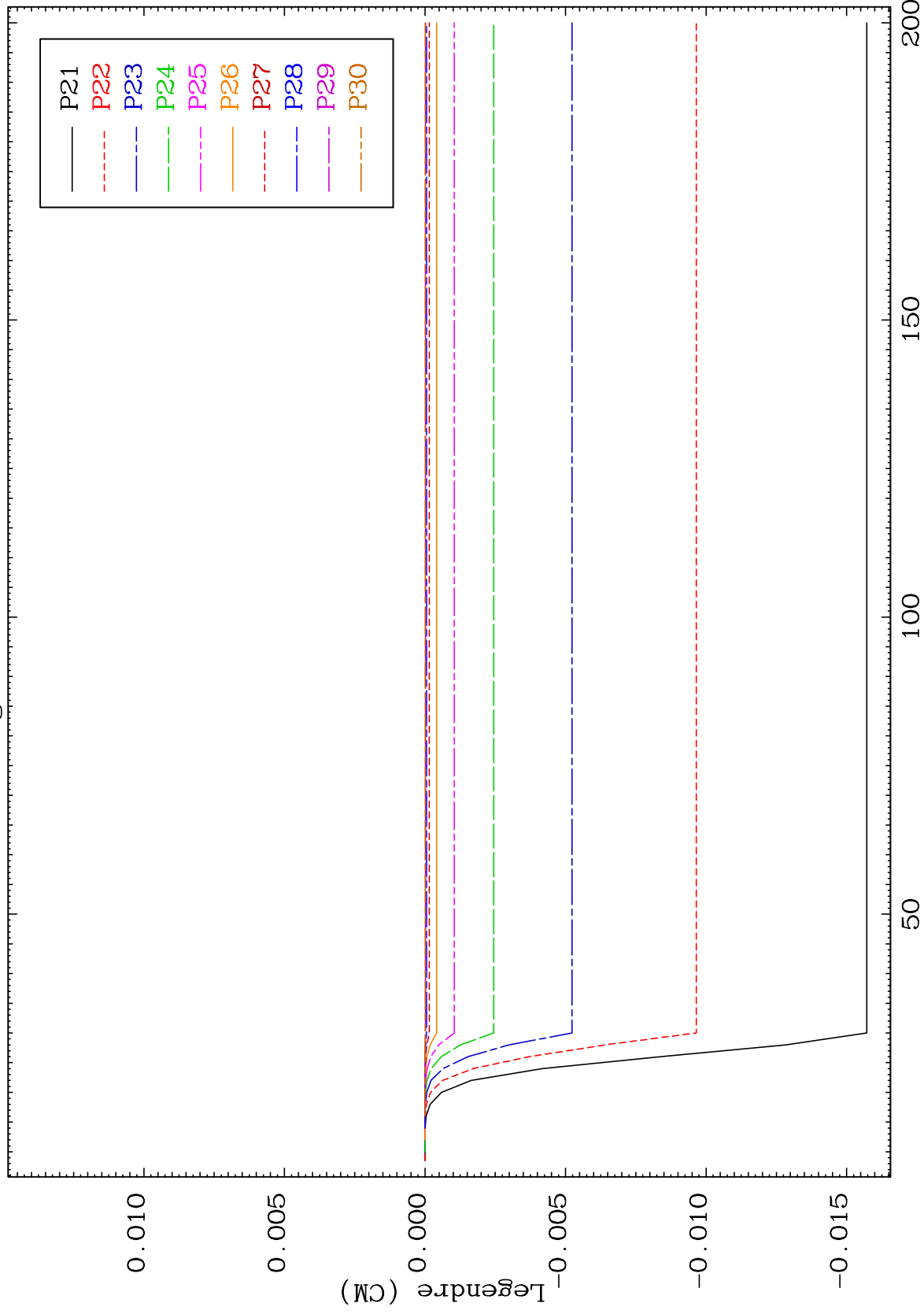
82-Pb-207



MAT 8234

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

82-Pb-207

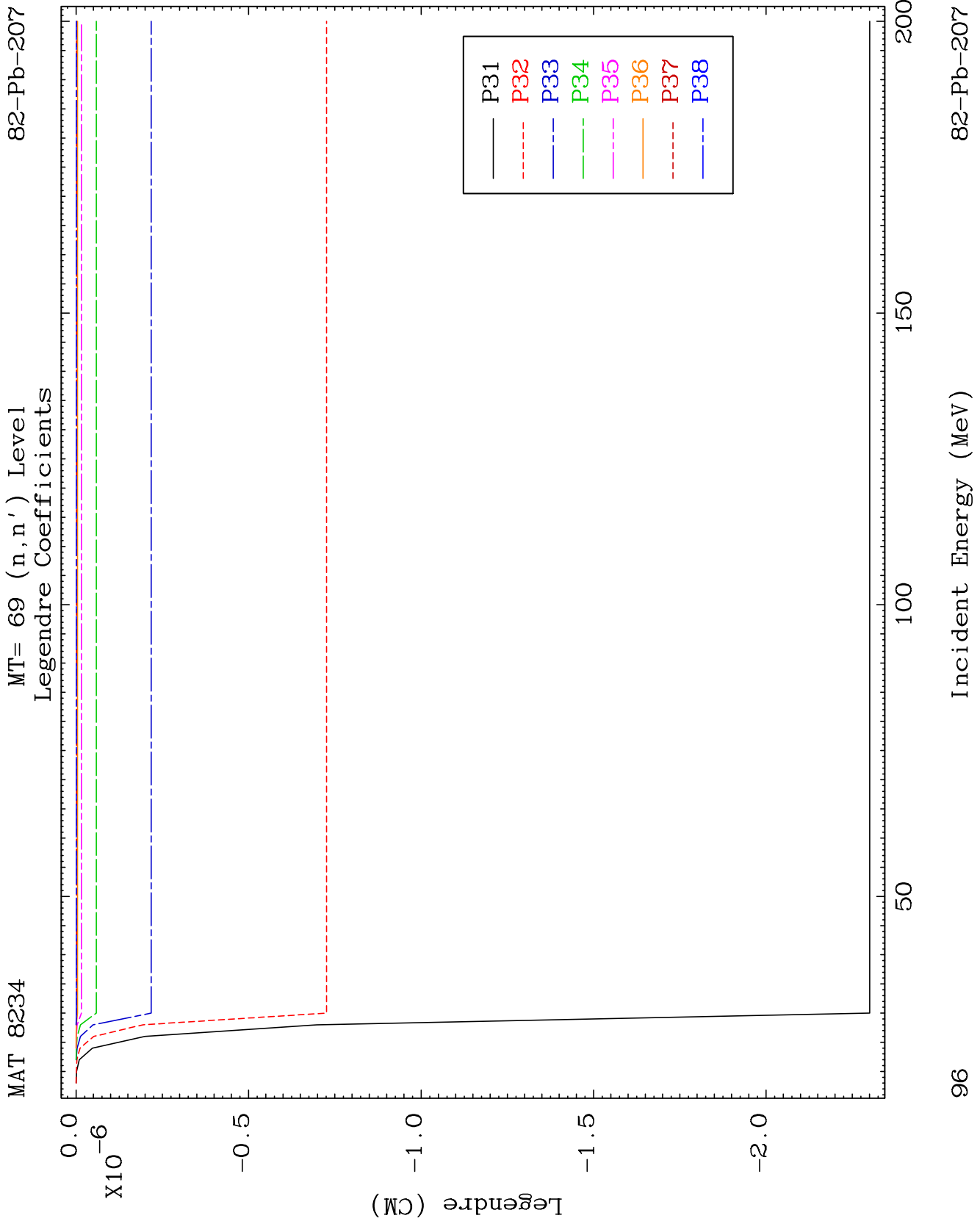


95

Incident Energy (MeV)

82-Pb-207

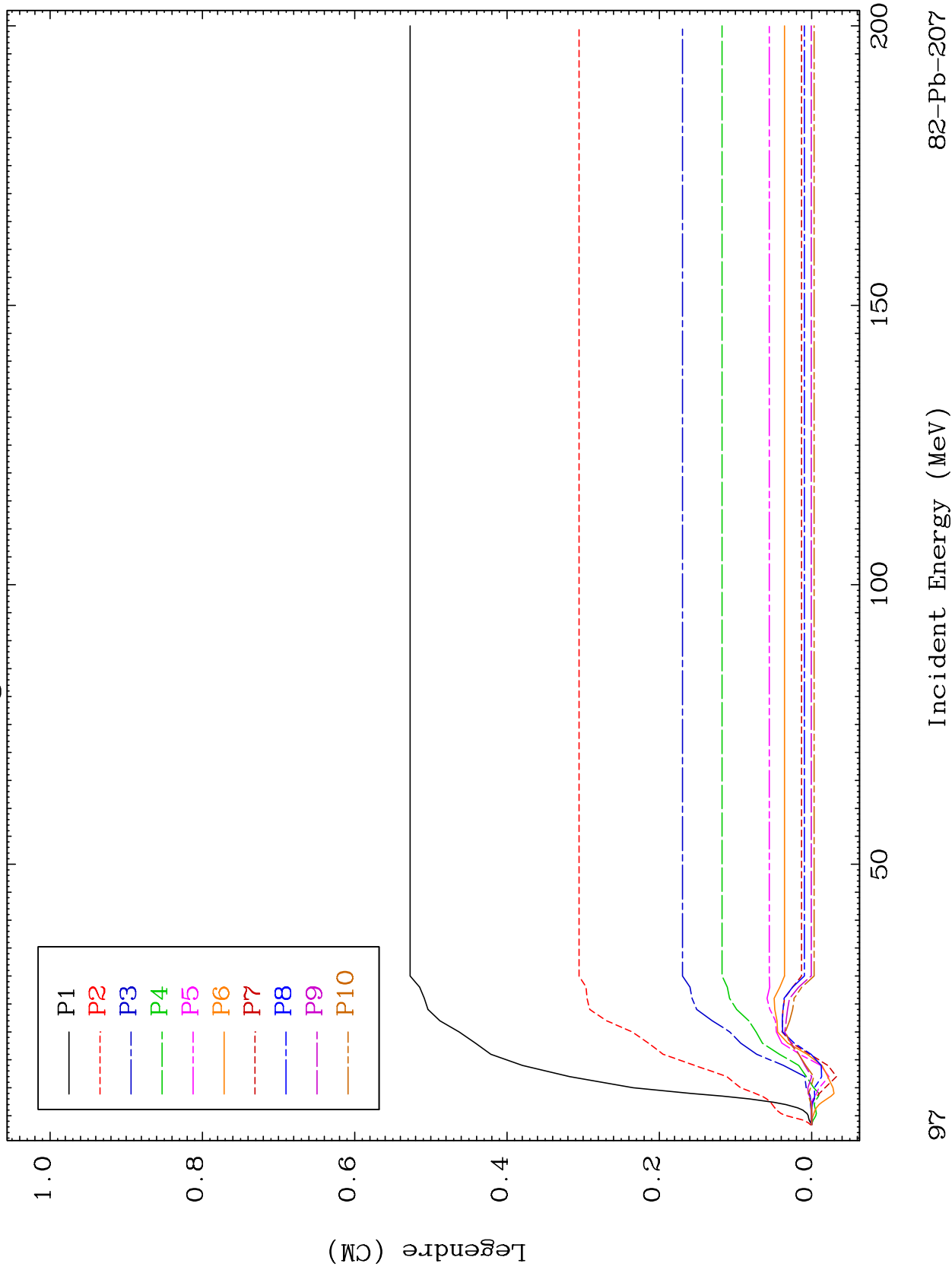




MAT 8234

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

82-Pb-207



97

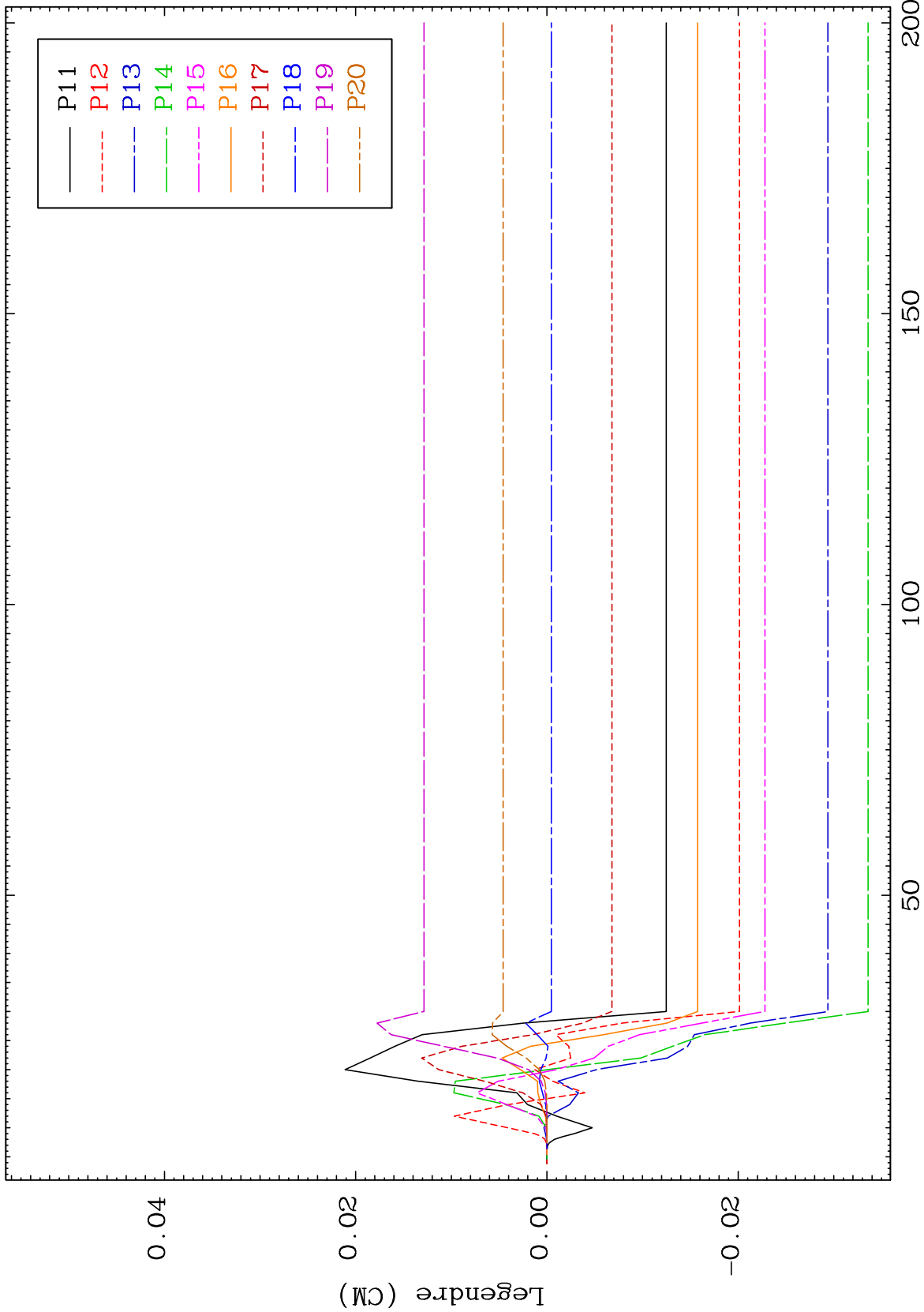
Incident Energy (MeV)

82-Pb-207

MAT 8234

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

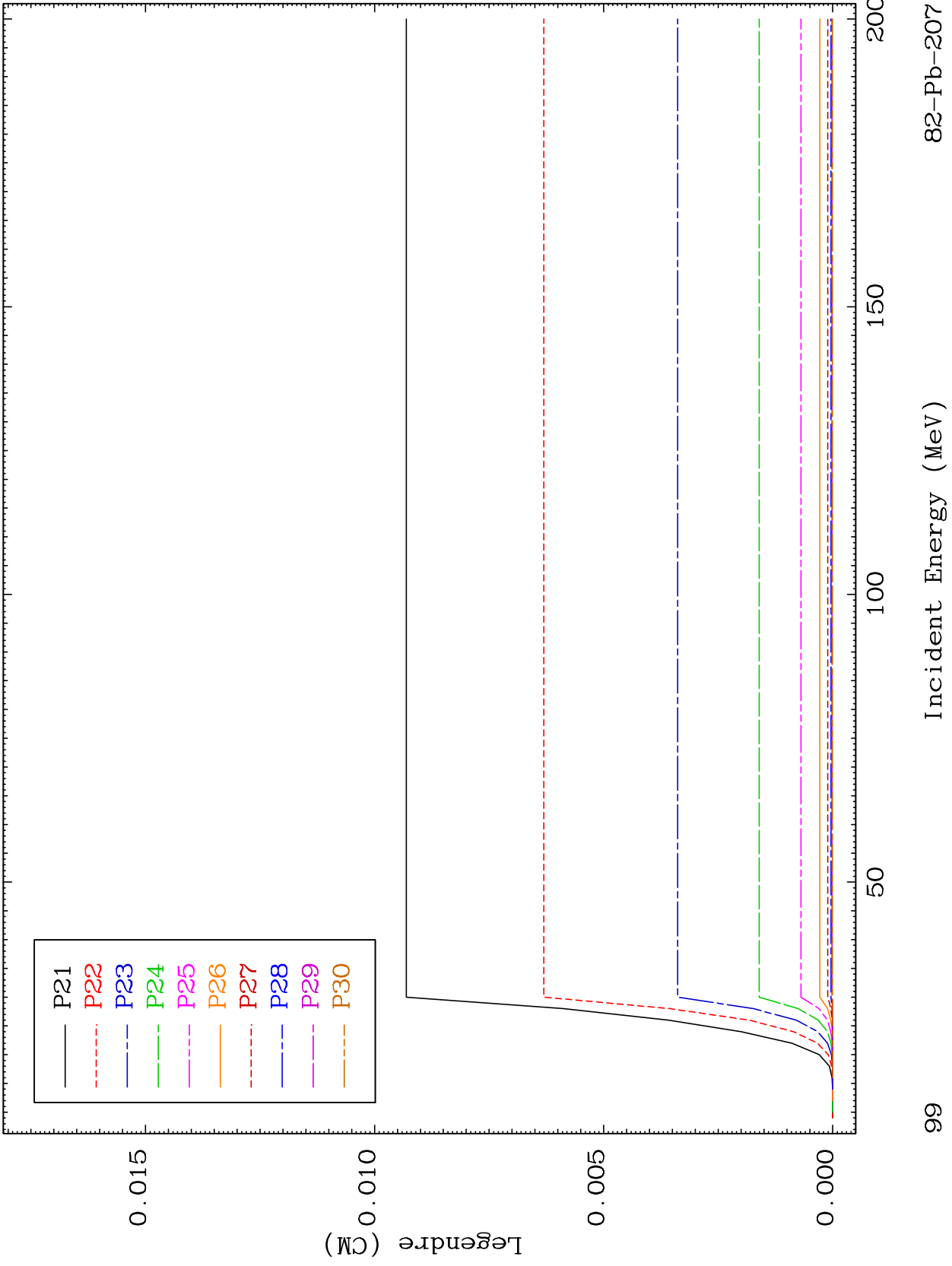
82-Pb-207



MAT 8234

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

82-Pb-207



99

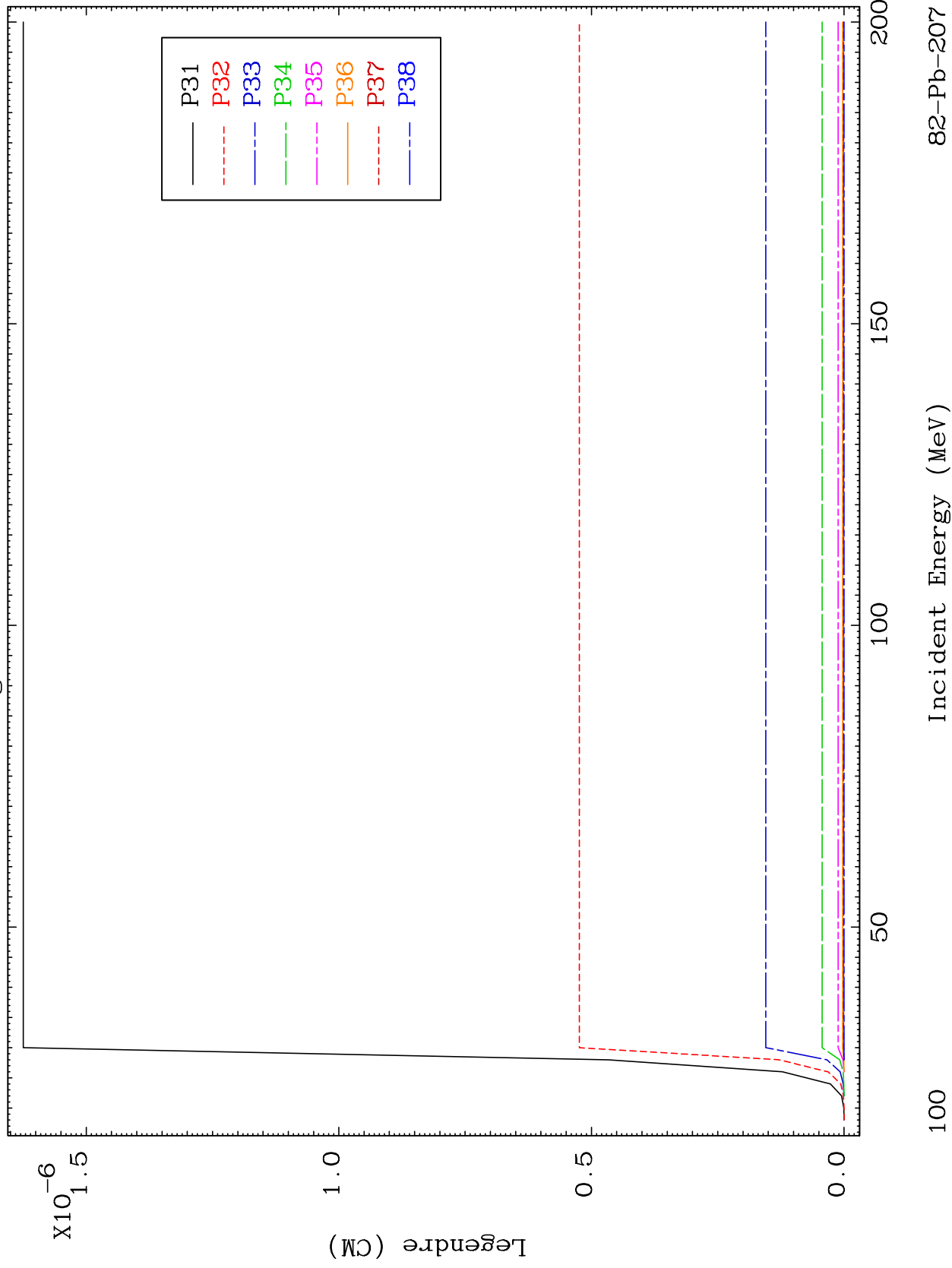
Incident Energy (MeV)

82-Pb-207

MAT 8234

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

82-Pb-207

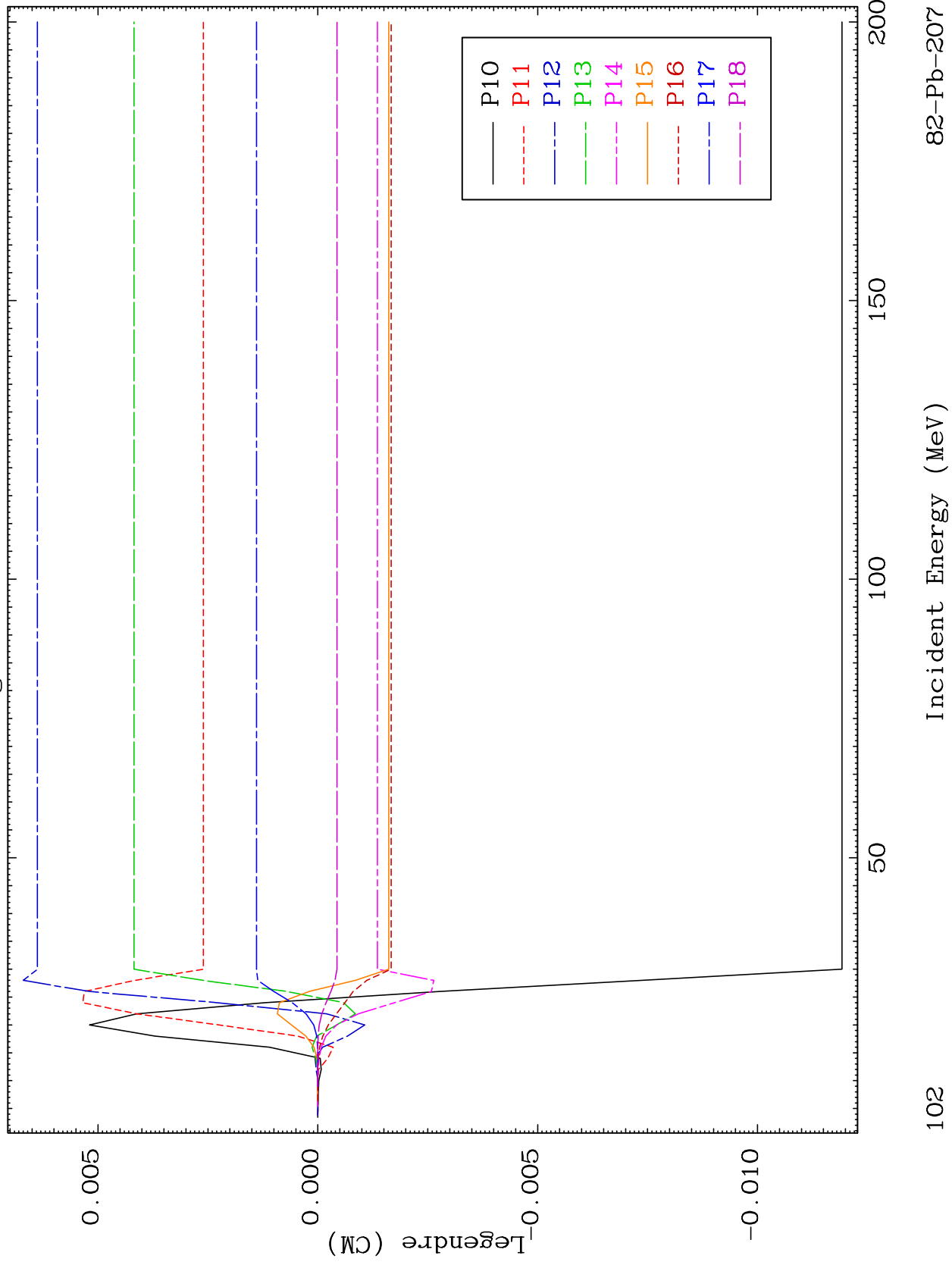




MAT 8234

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

82-Pb-207



102

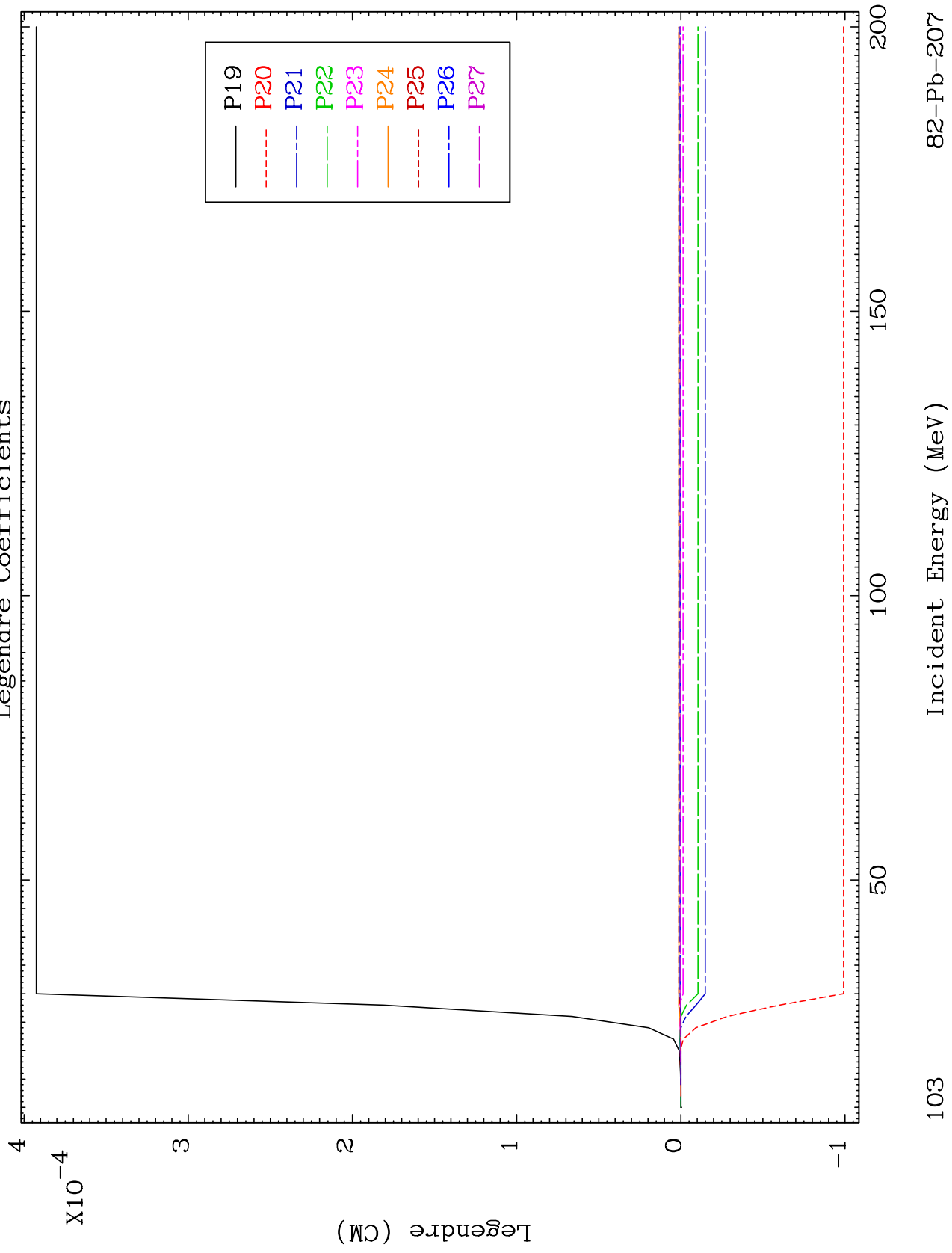
Incident Energy (MeV)

82-Pb-207

MAT 8234

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

82-Pb-207

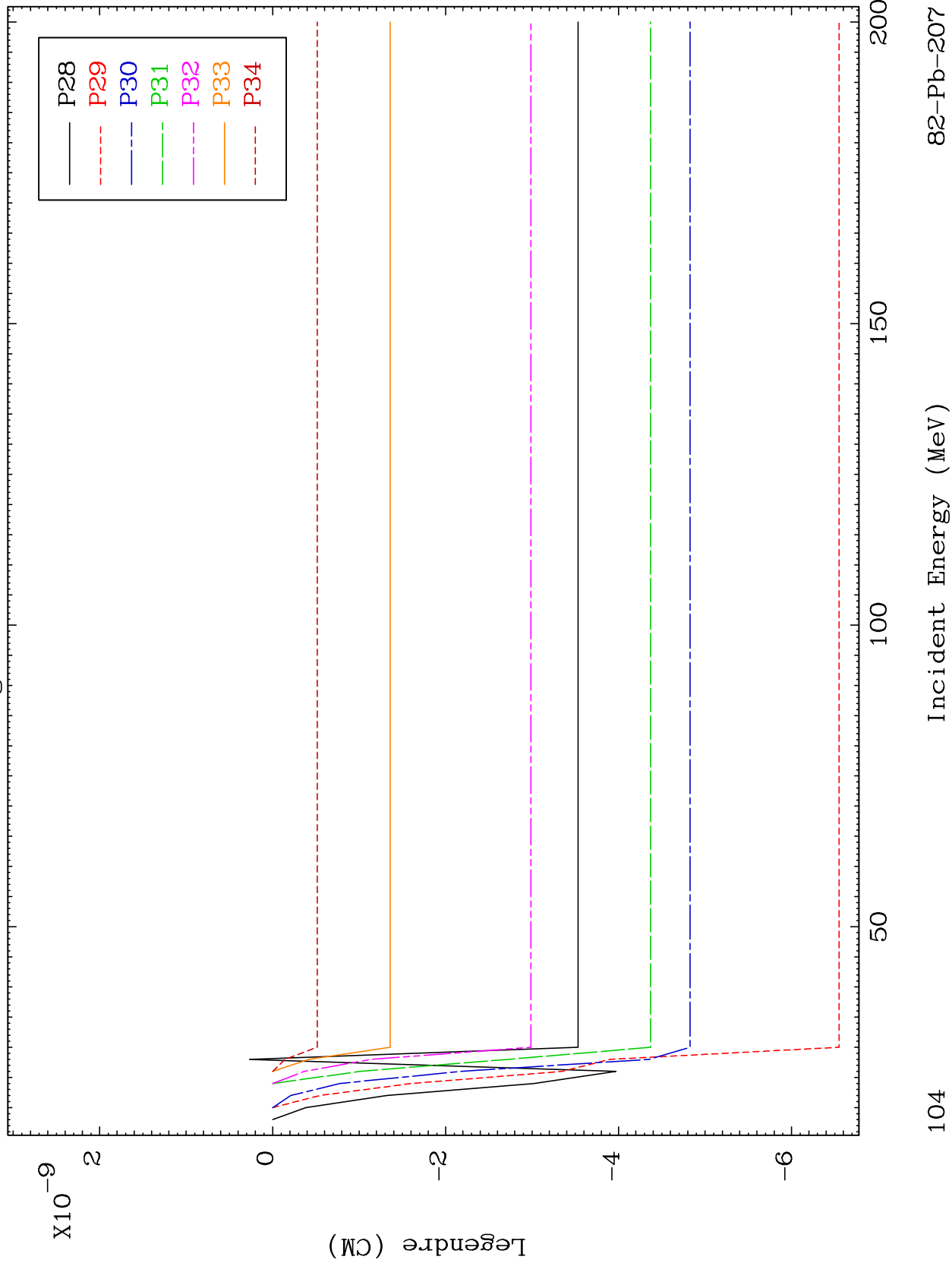




MAT 8234

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

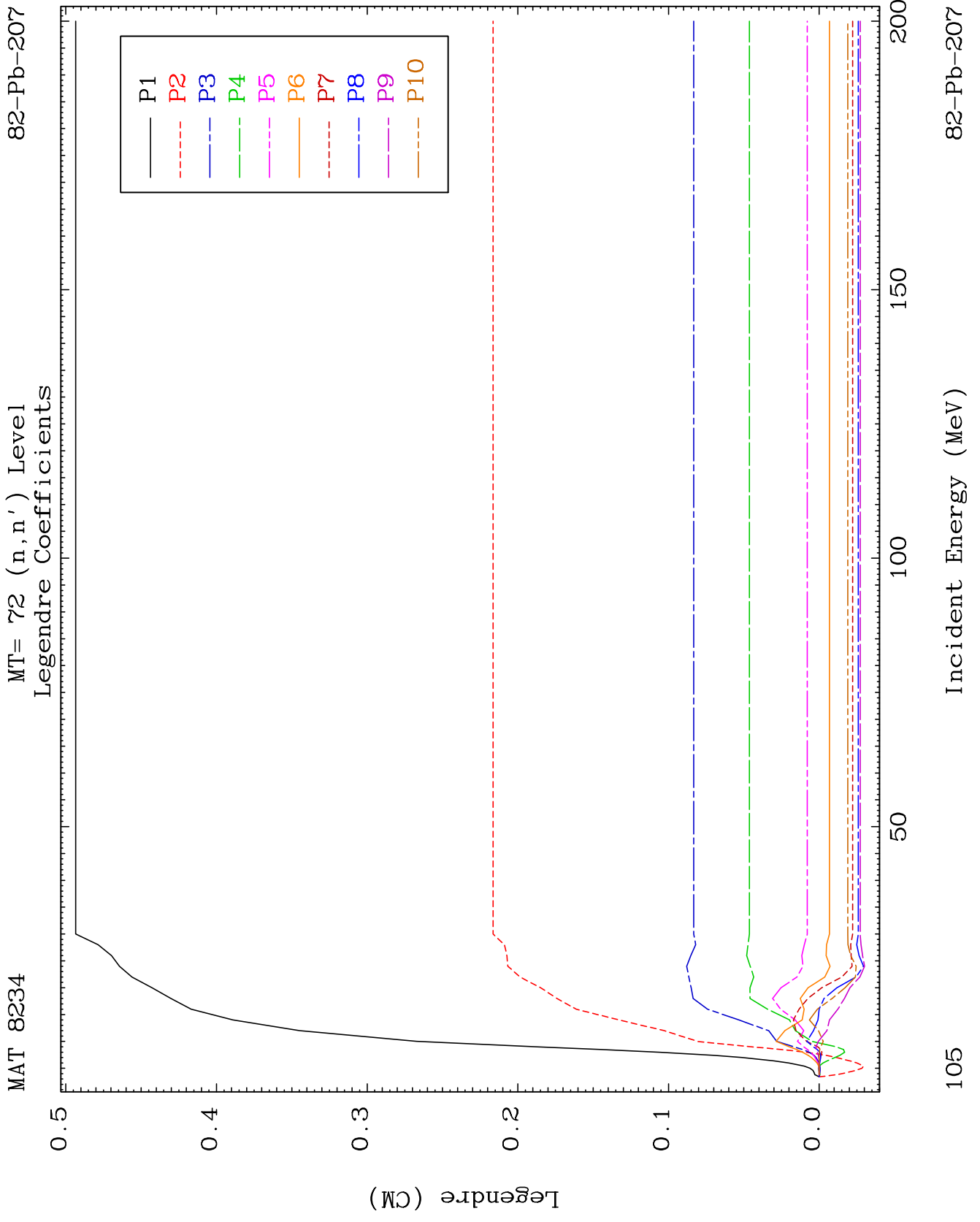
82-Pb-207



104

Incident Energy (MeV)

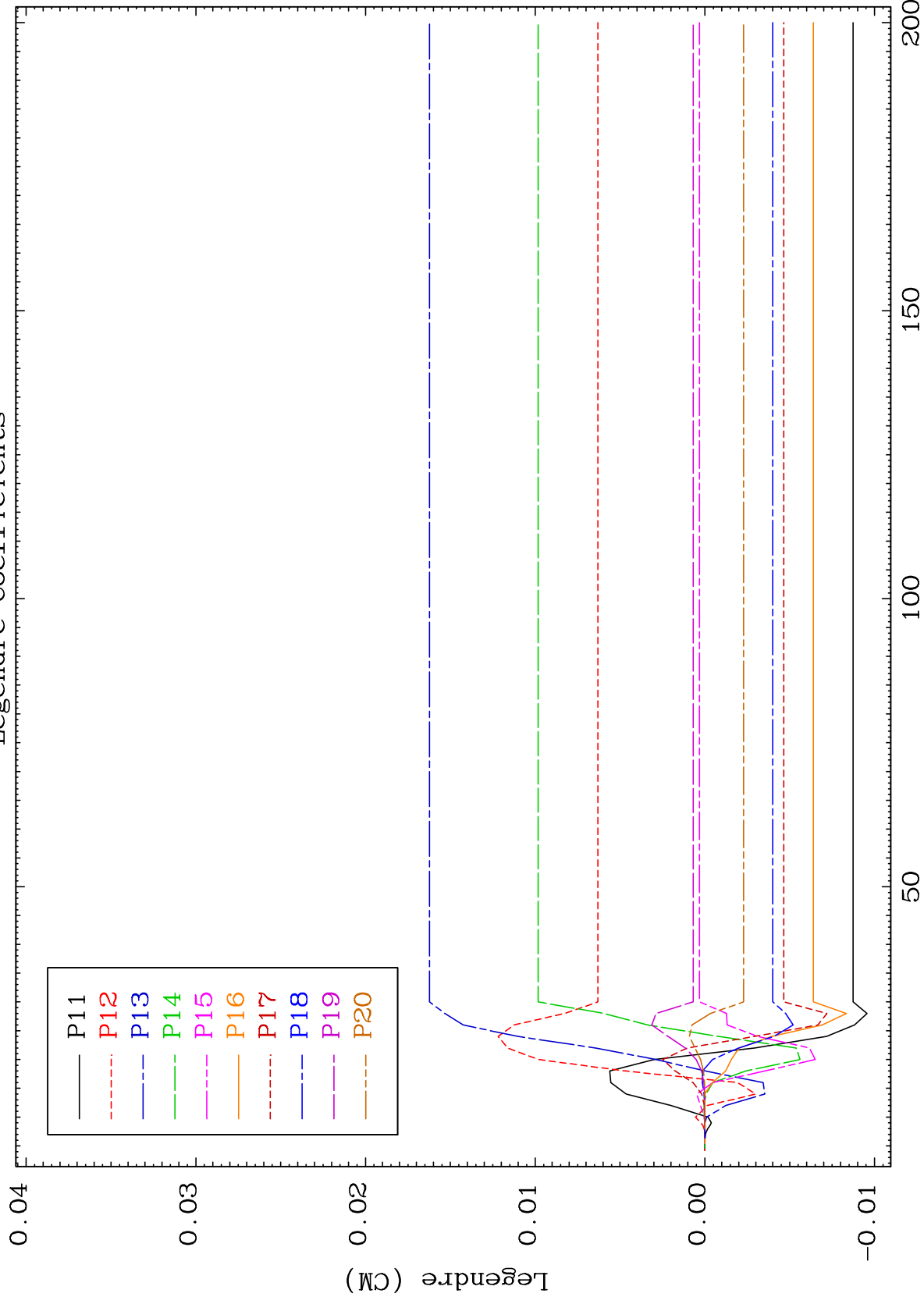
82-Pb-207



MAT 8234

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

82-Pb-207



106

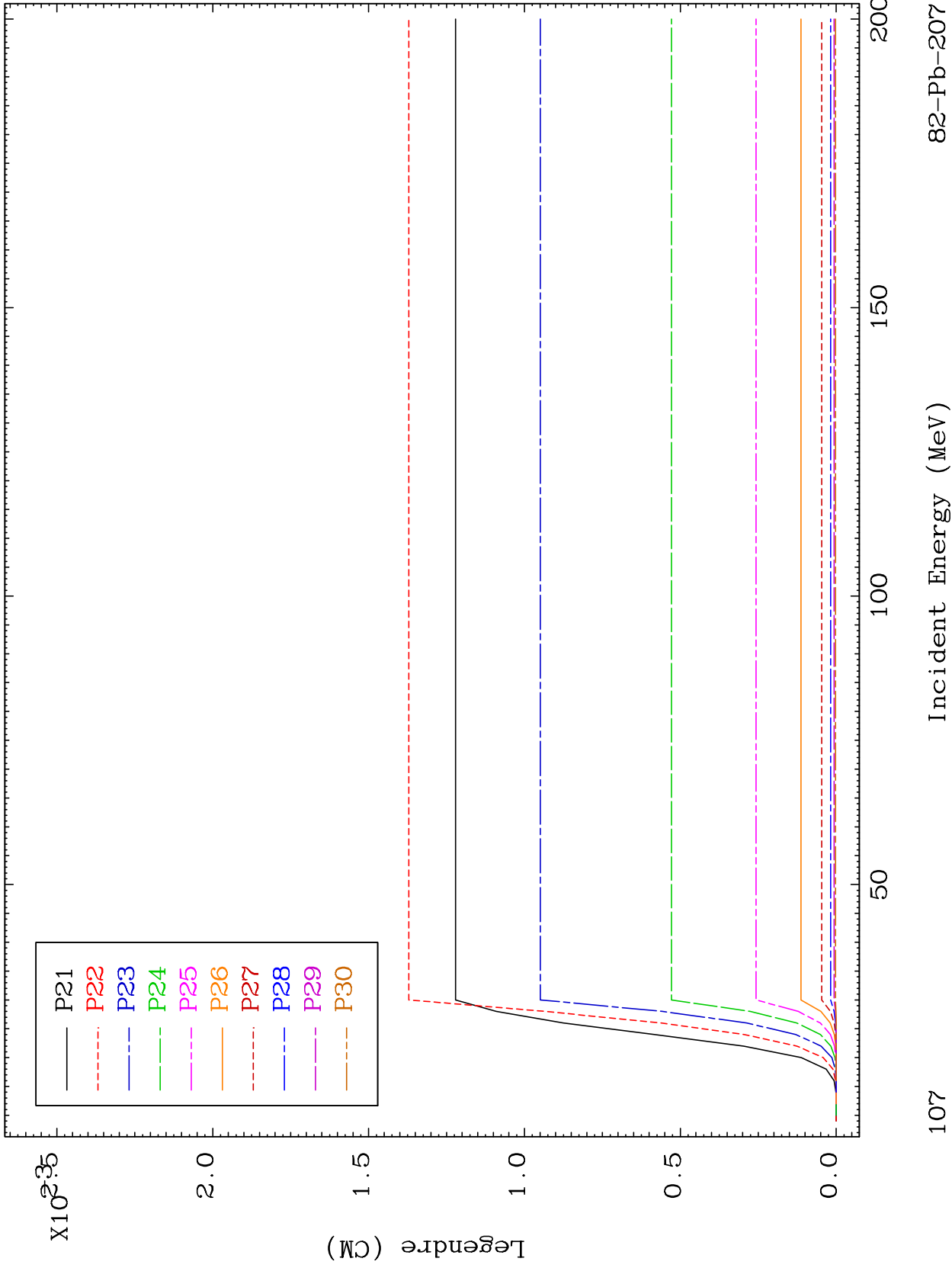
Incident Energy (MeV)

82-Pb-207

MAT 8234

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

82-Pb-207

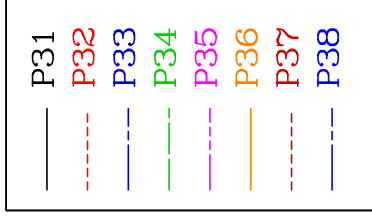


MAT 8234

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

82-Pb-207

$\times 10^{-7}$



Legendre (CM)

200

150

100

50

108

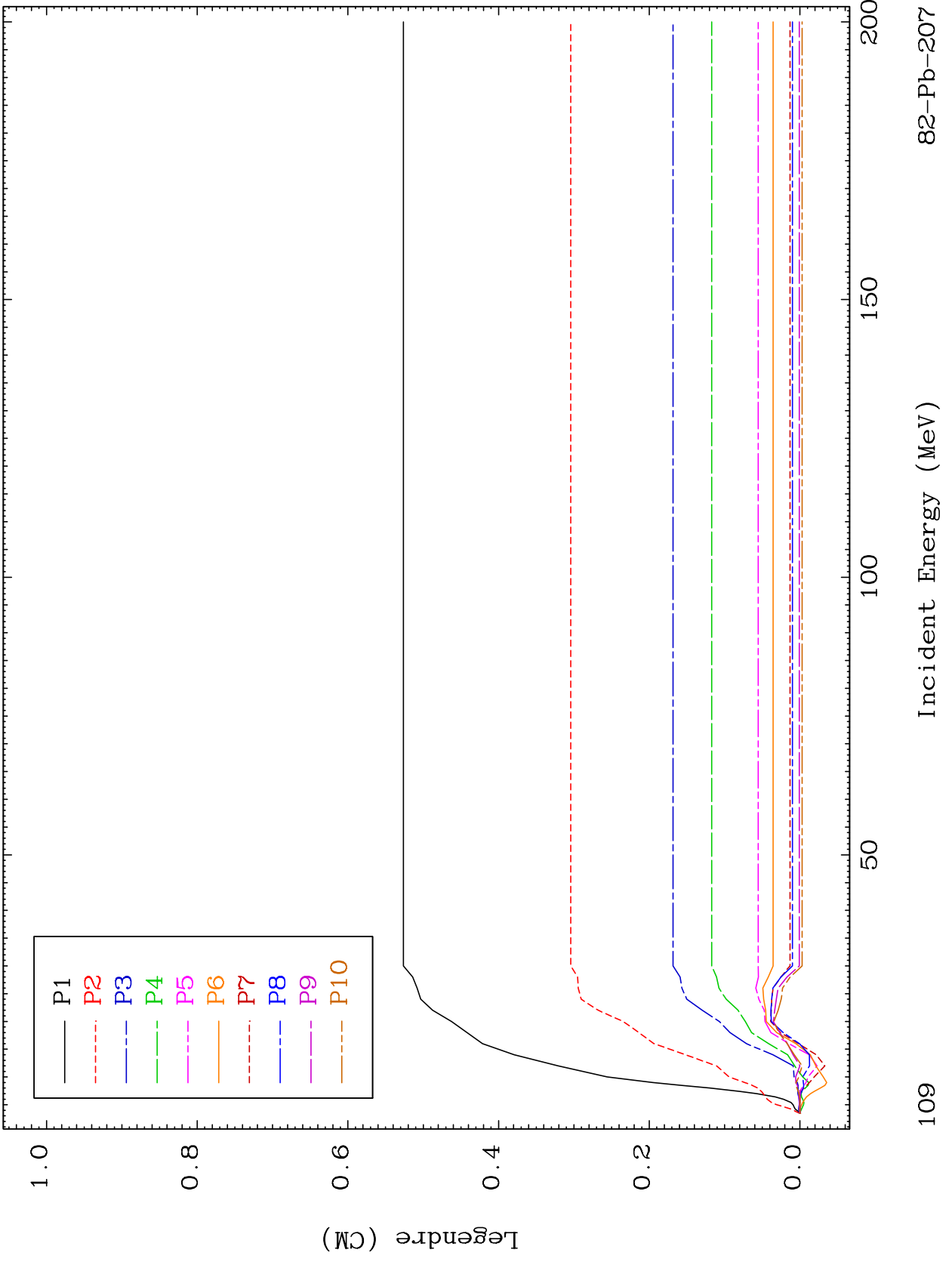
Incident Energy (MeV)

82-Pb-207

MAT 8234

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

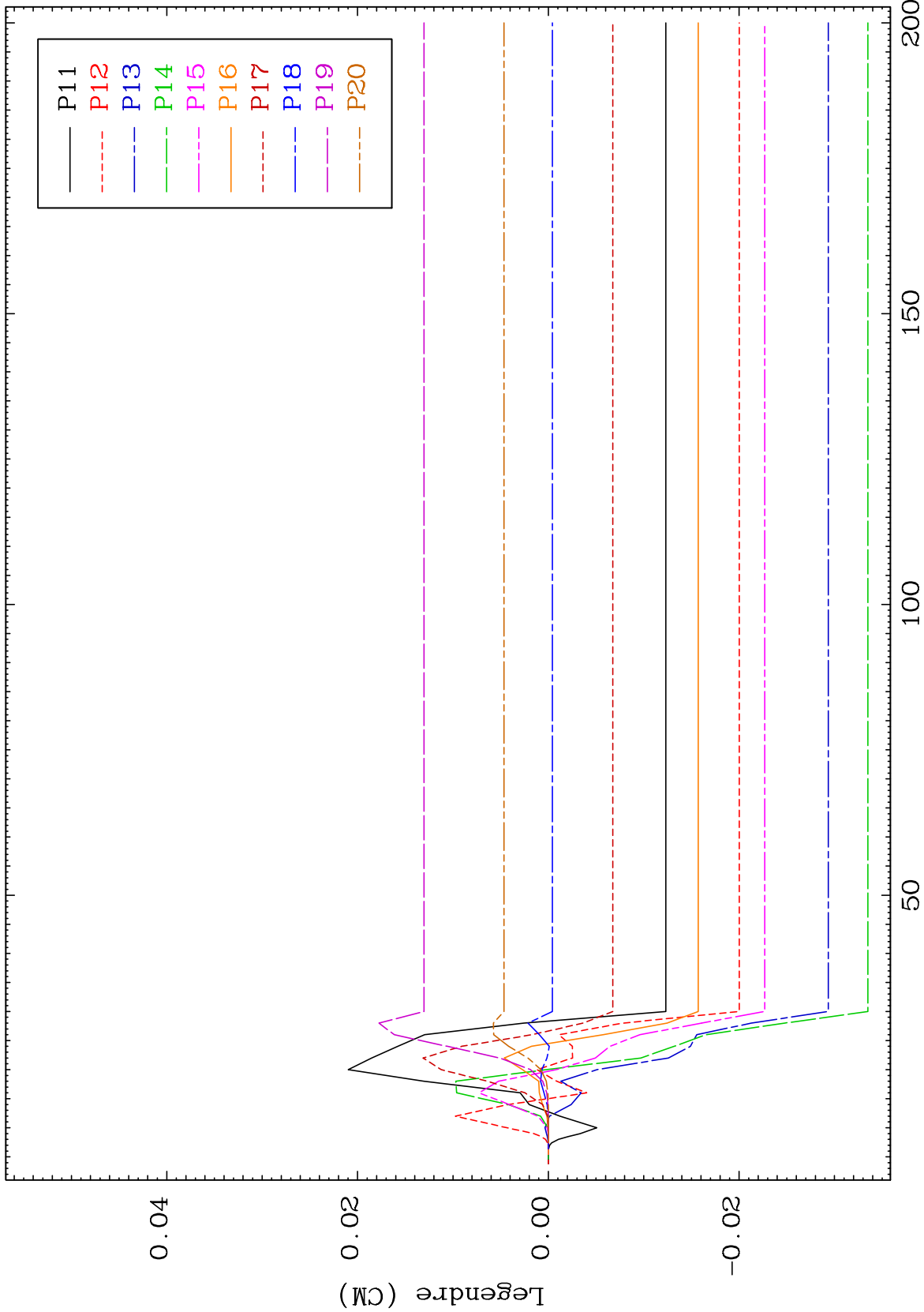
82-Pb-207



MAT 8234

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

82-Pb-207



110

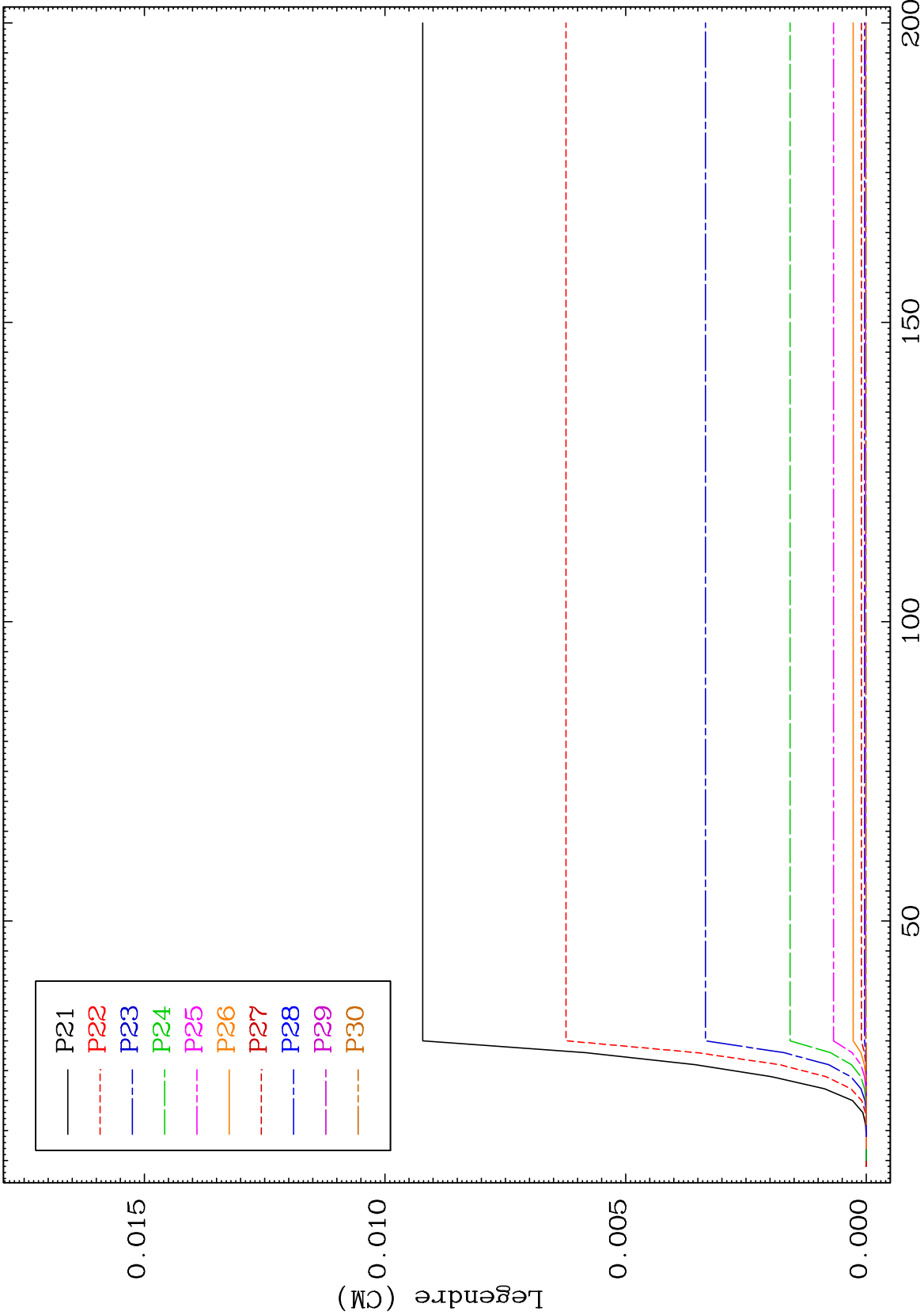
Incident Energy (MeV)

82-Pb-207

MAT 8234

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

82-Pb-207



111

Incident Energy (MeV)

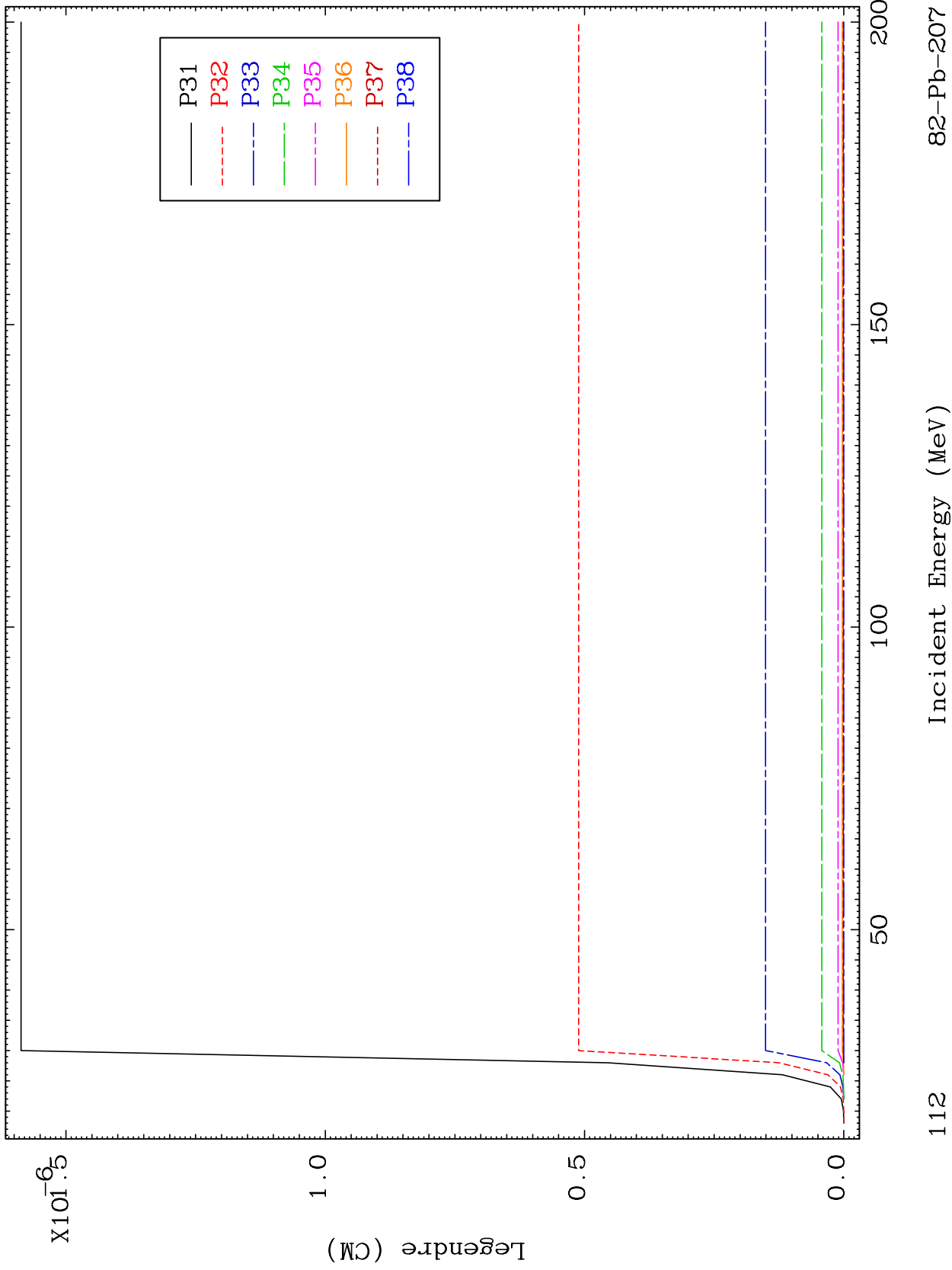
82-Pb-207



MAT 8234

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

82-Pb-207

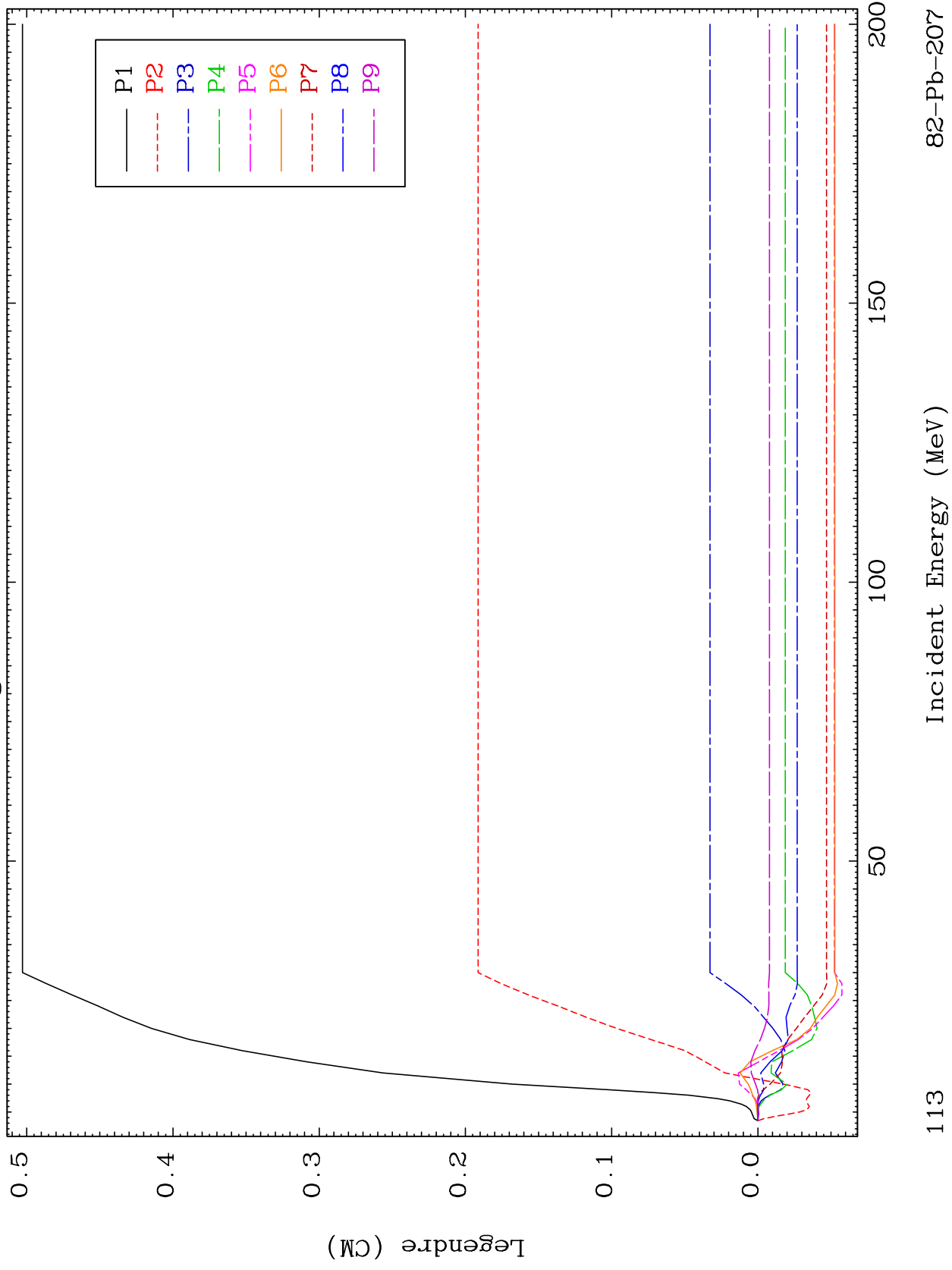


112

MAT 8234

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

82-Pb-207



113

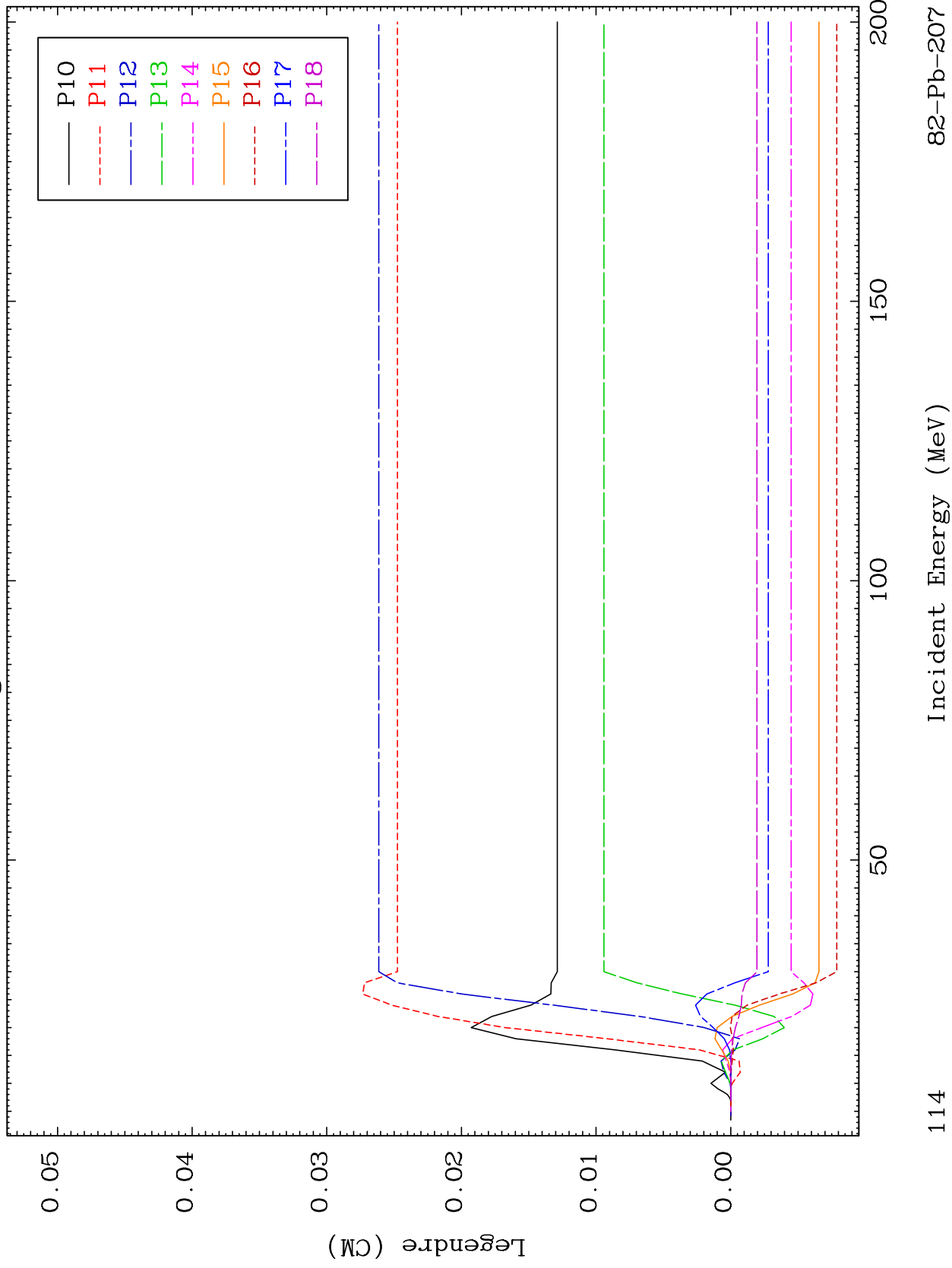
Incident Energy (MeV)

82-Pb-207

MAT 8234

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

82-Pb-207



114

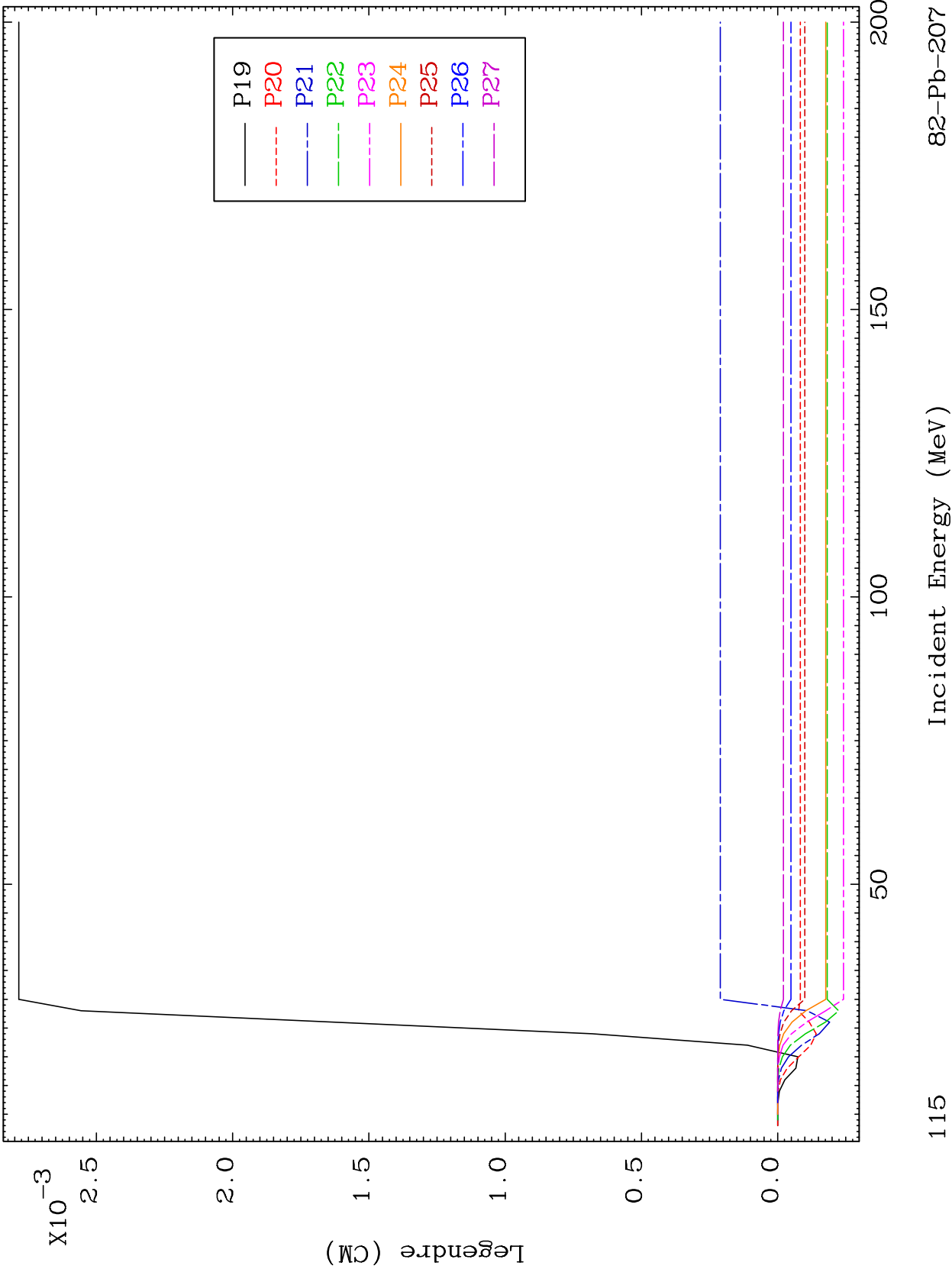
Incident Energy (MeV)

82-Pb-207

MAT 8234

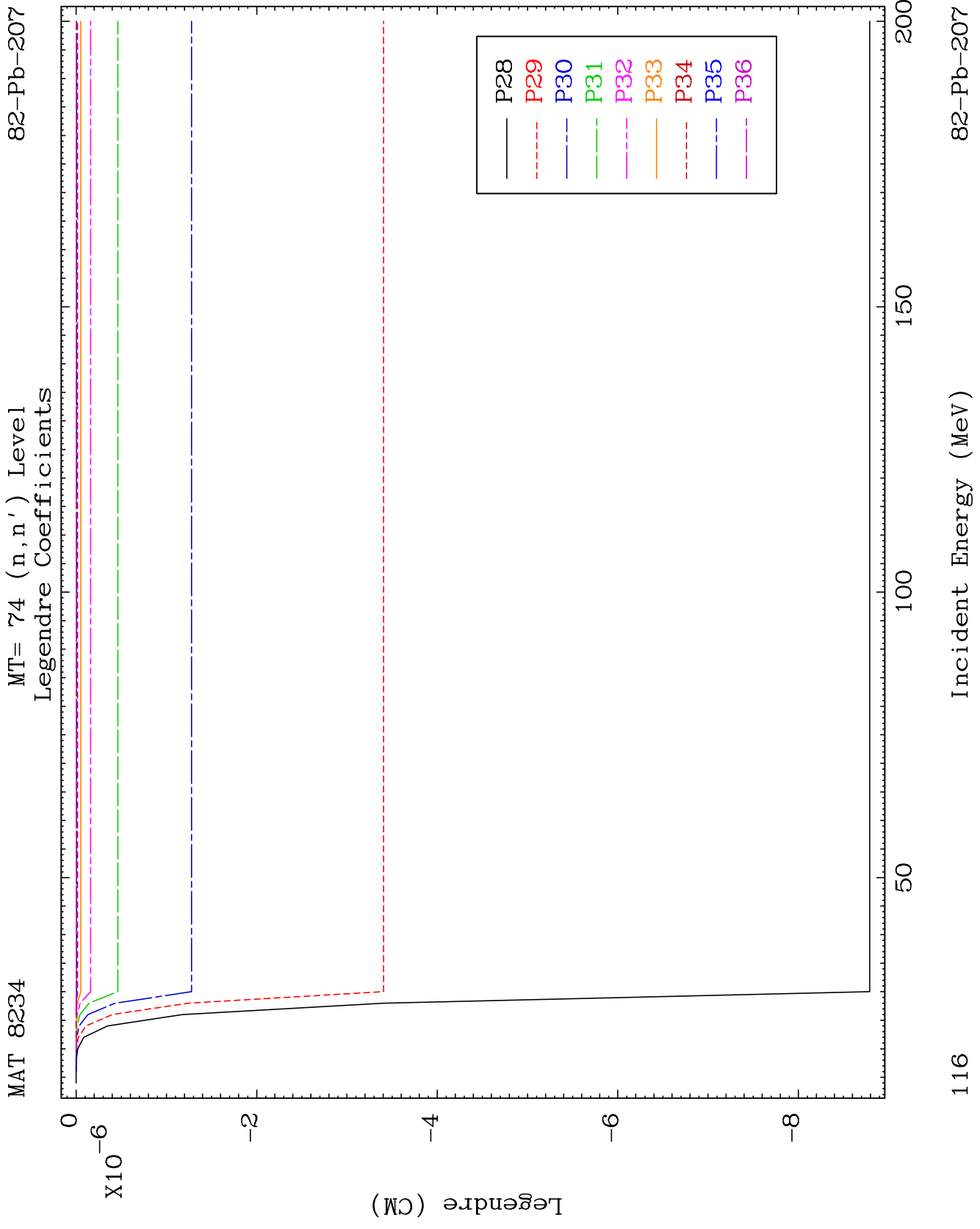
MT= 74 (n,n') Level  
Legendre Coefficients

82-Pb-207



115

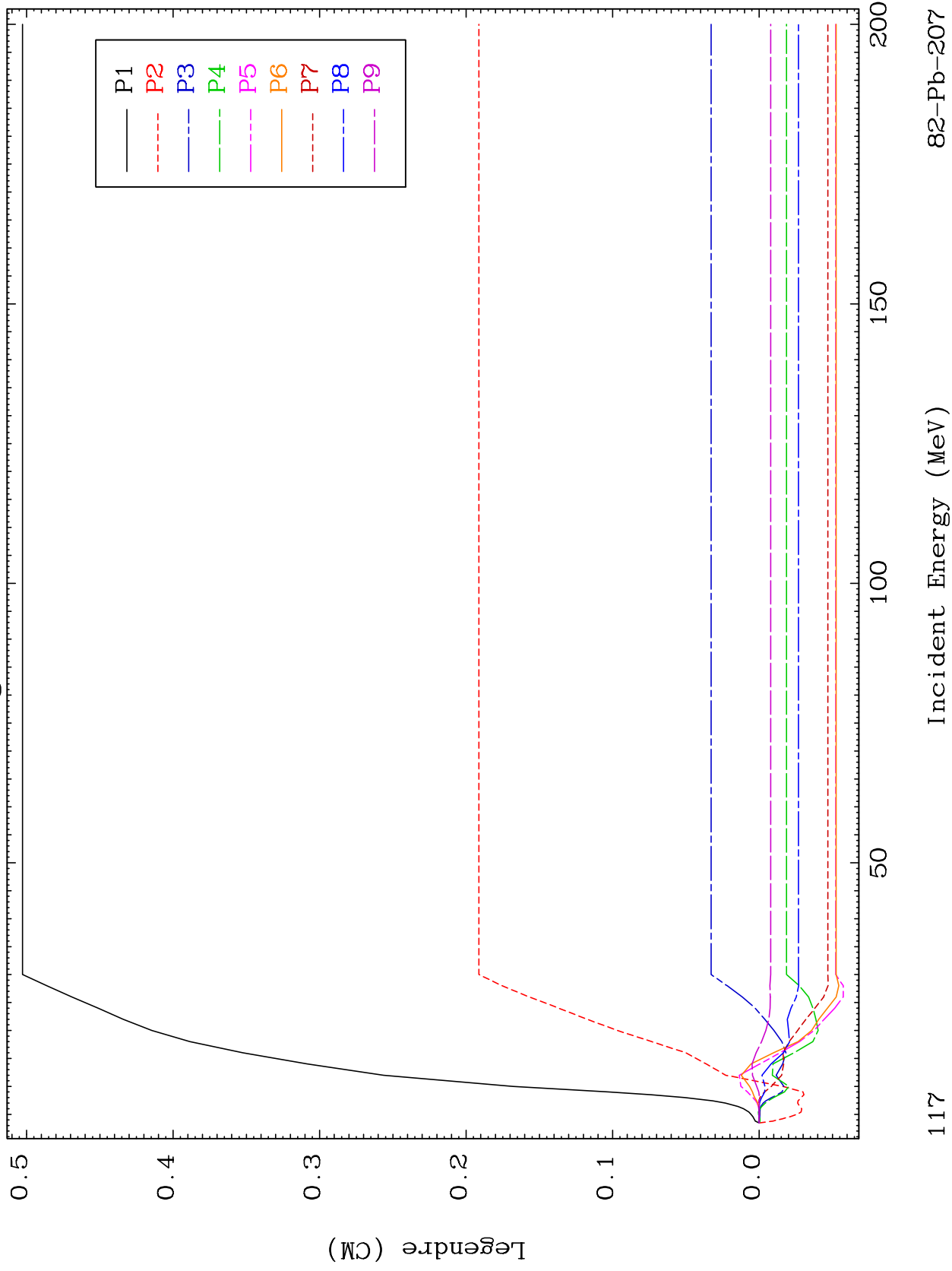
82-Pb-207



MAT 8234

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

82-Pb-207



117

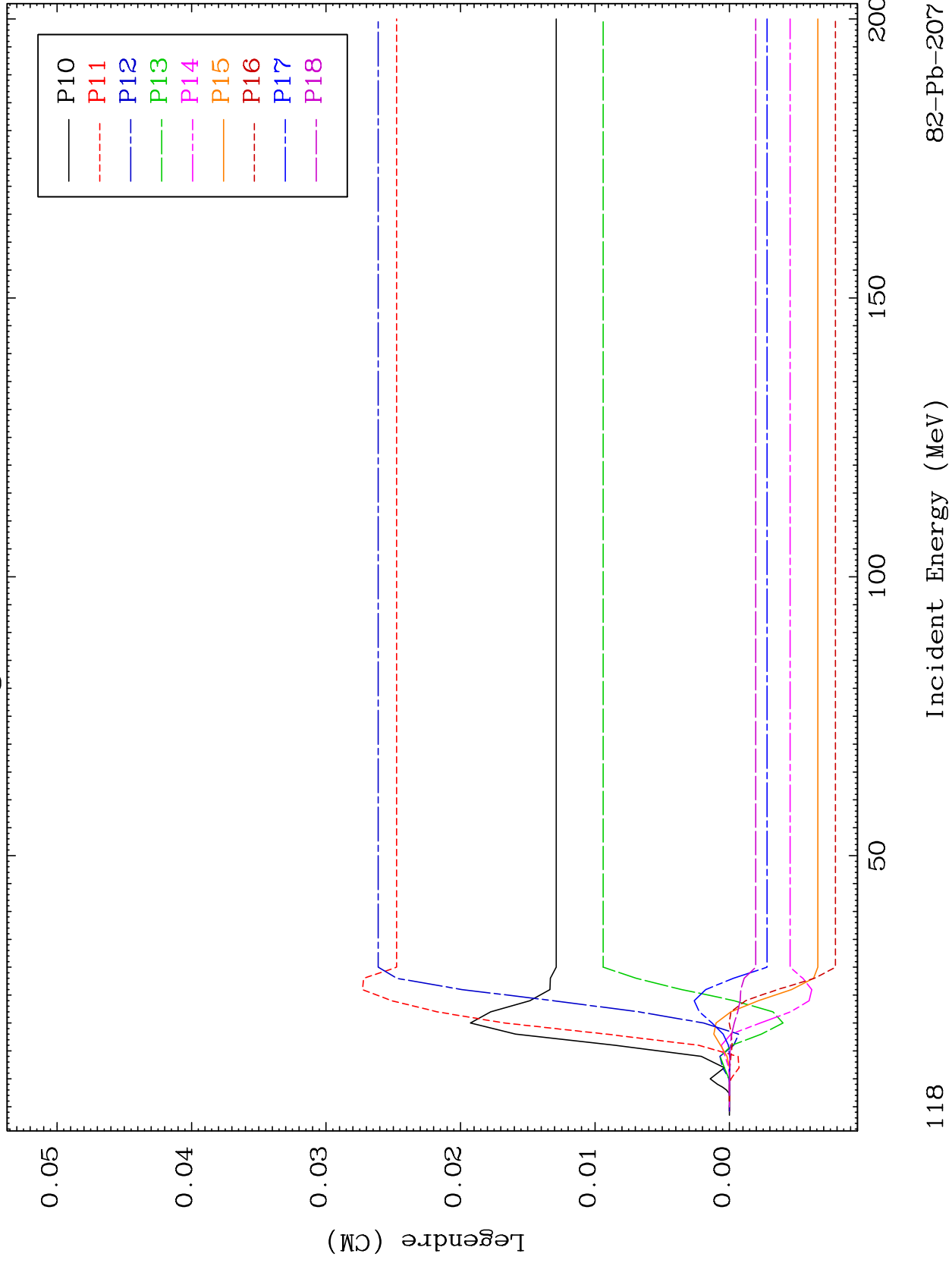
Incident Energy (MeV)

82-Pb-207

MAT 8234

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

82-Pb-207



118

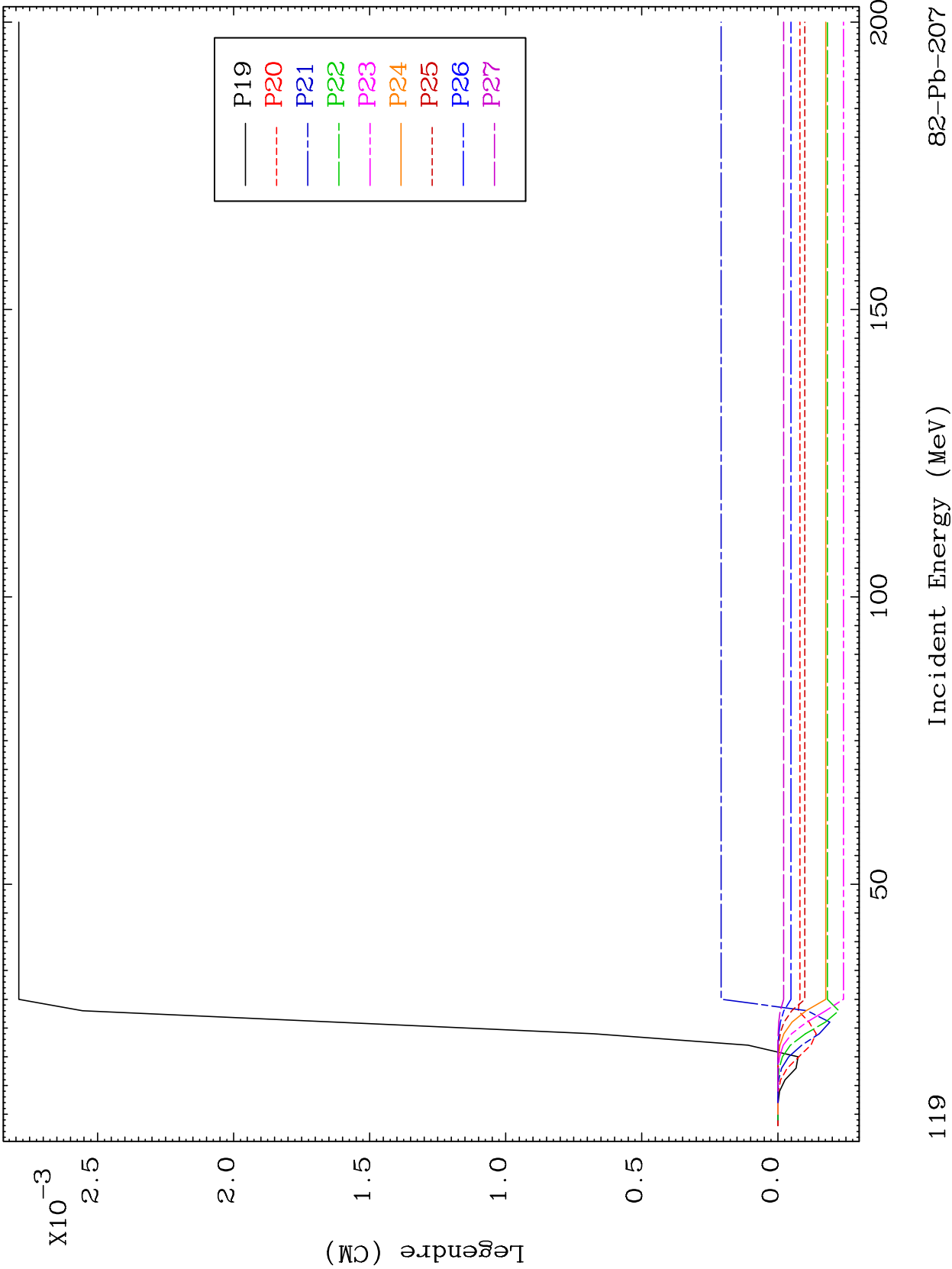
Incident Energy (MeV)

82-Pb-207

MAT 8234

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

82-Pb-207

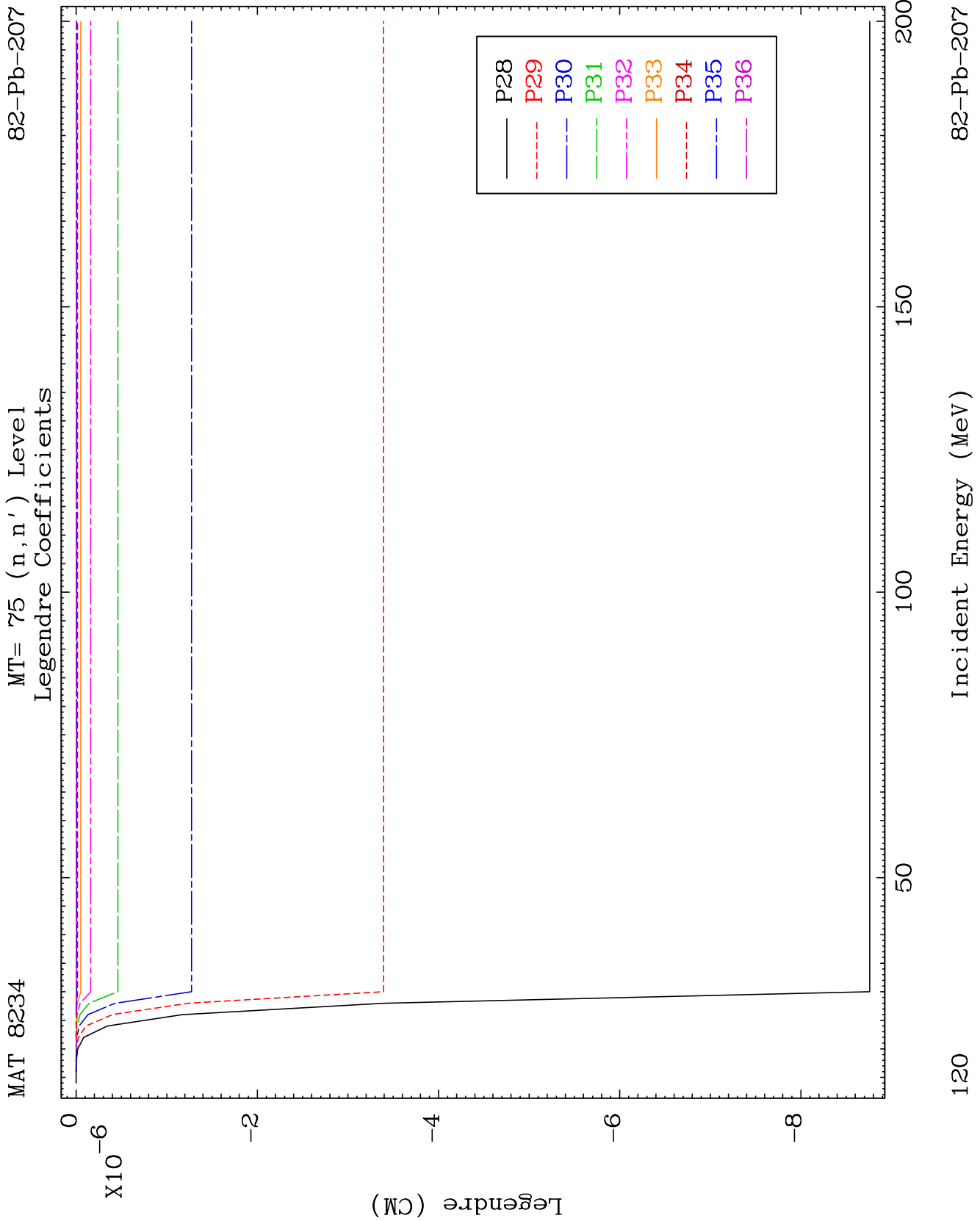


119

Incident Energy (MeV)

82-Pb-207

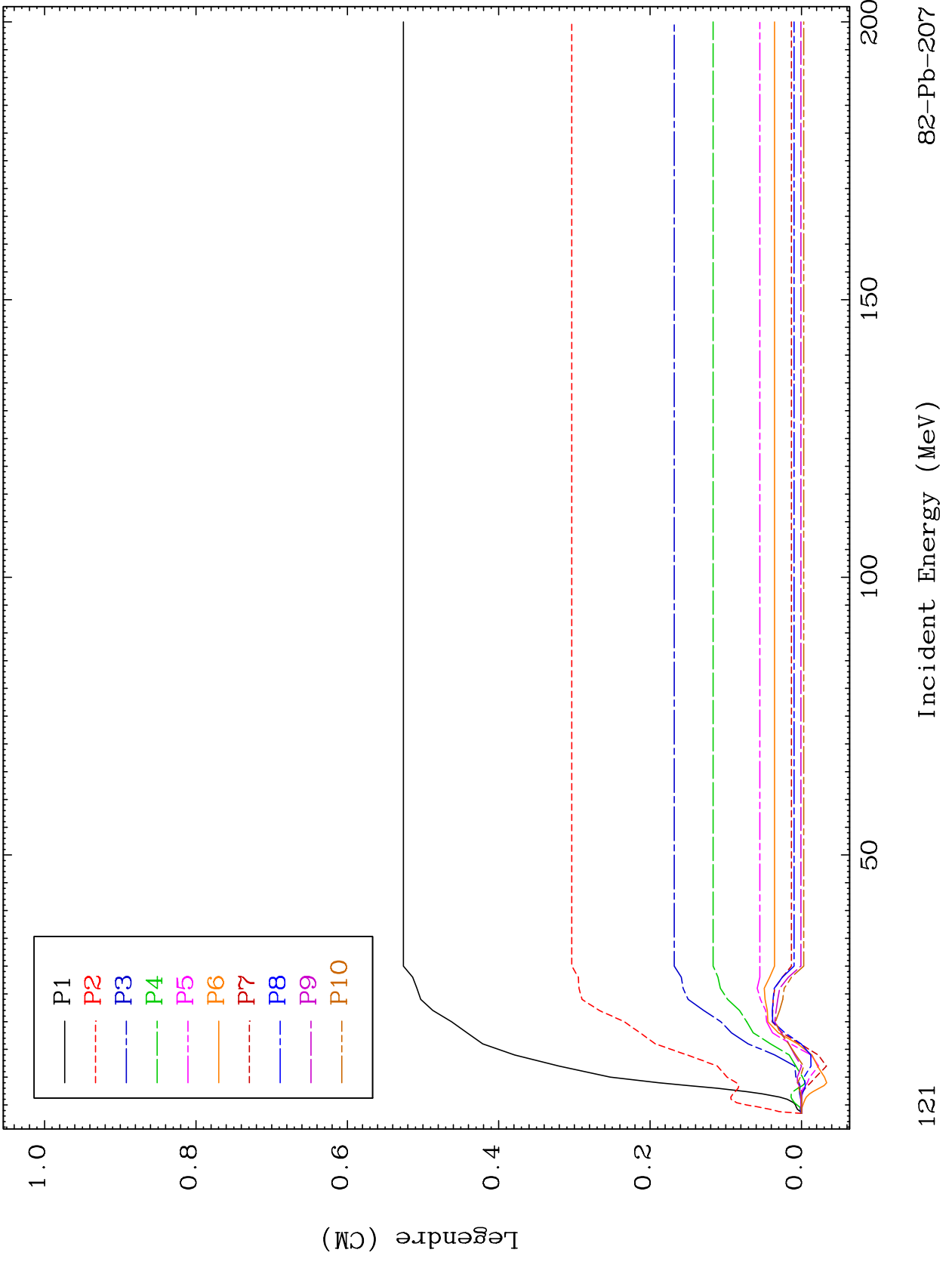




MAT 8234

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

82-Pb-207

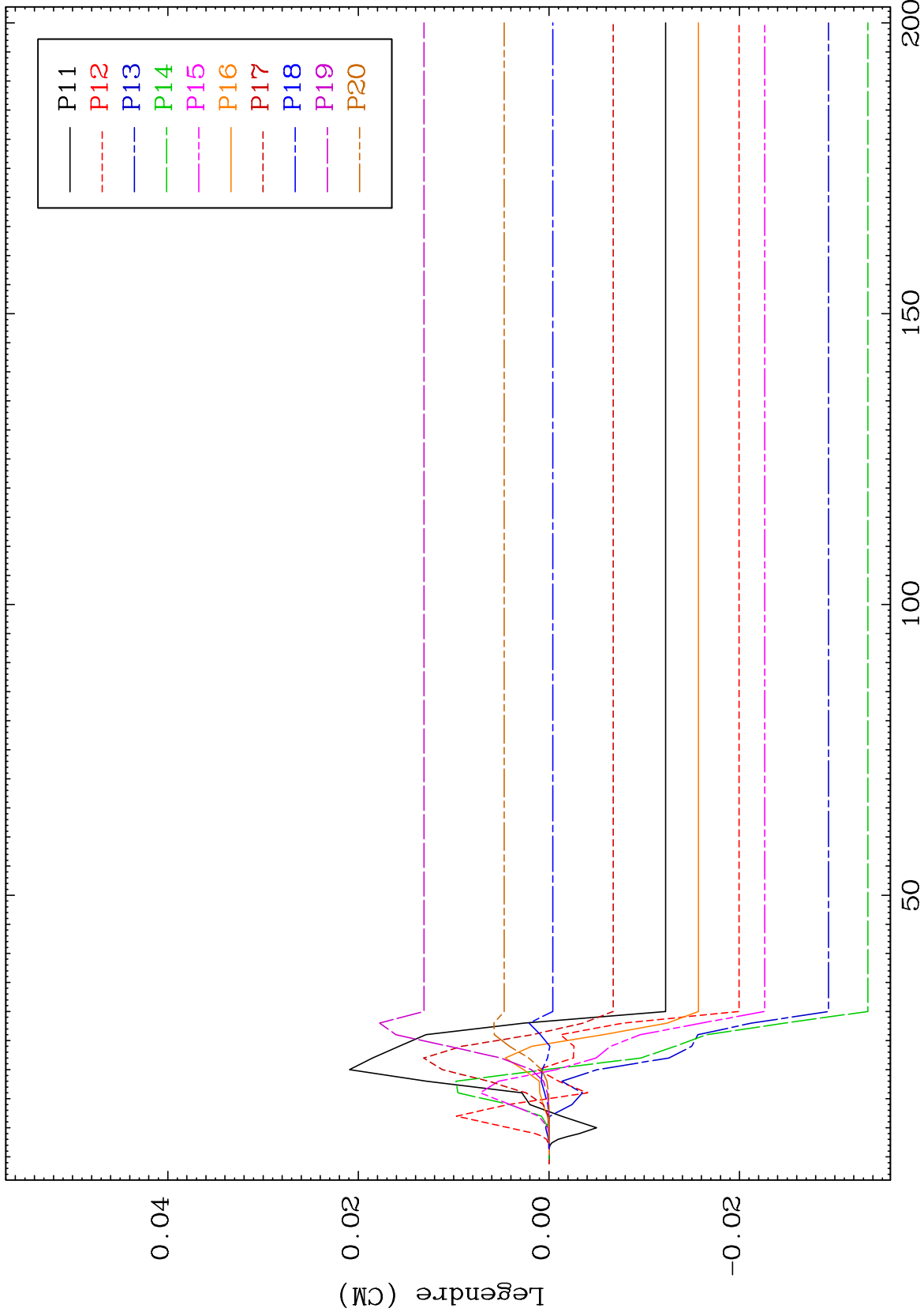


121

MAT 8234

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

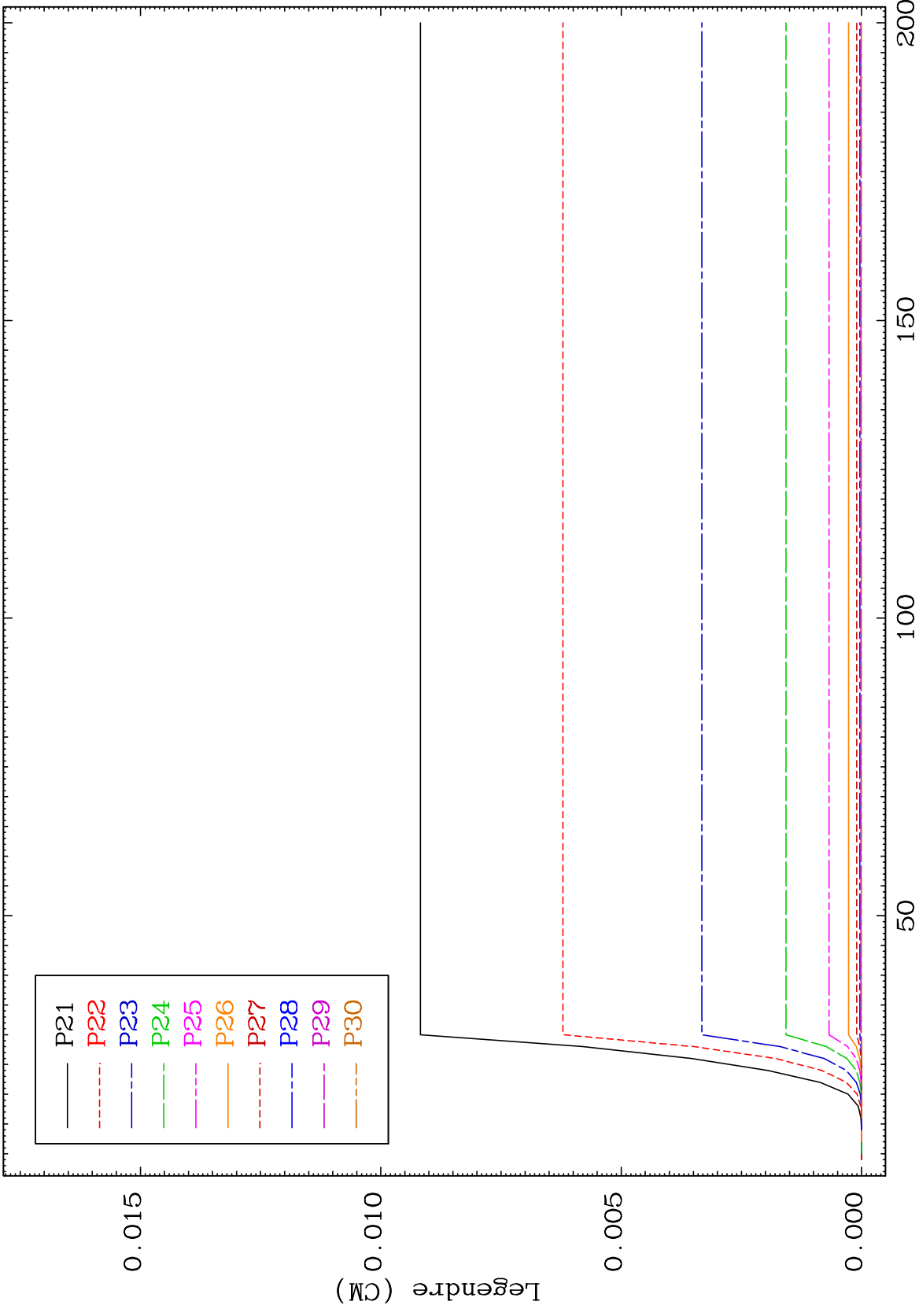
82-Pb-207



MAT 8234

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

82-Pb-207



123

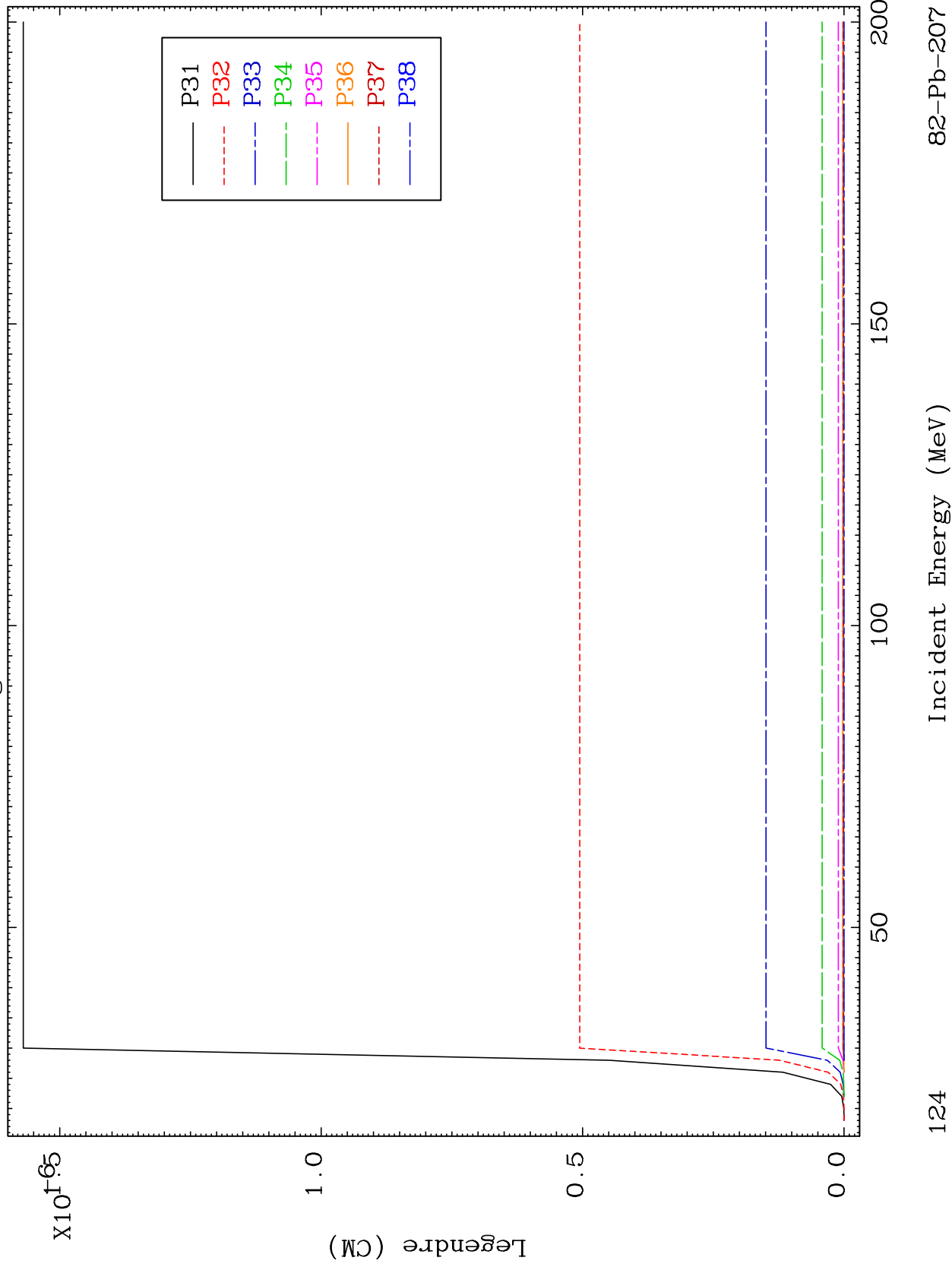
Incident Energy (MeV)

82-Pb-207

MAT 8234

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

82-Pb-207



124

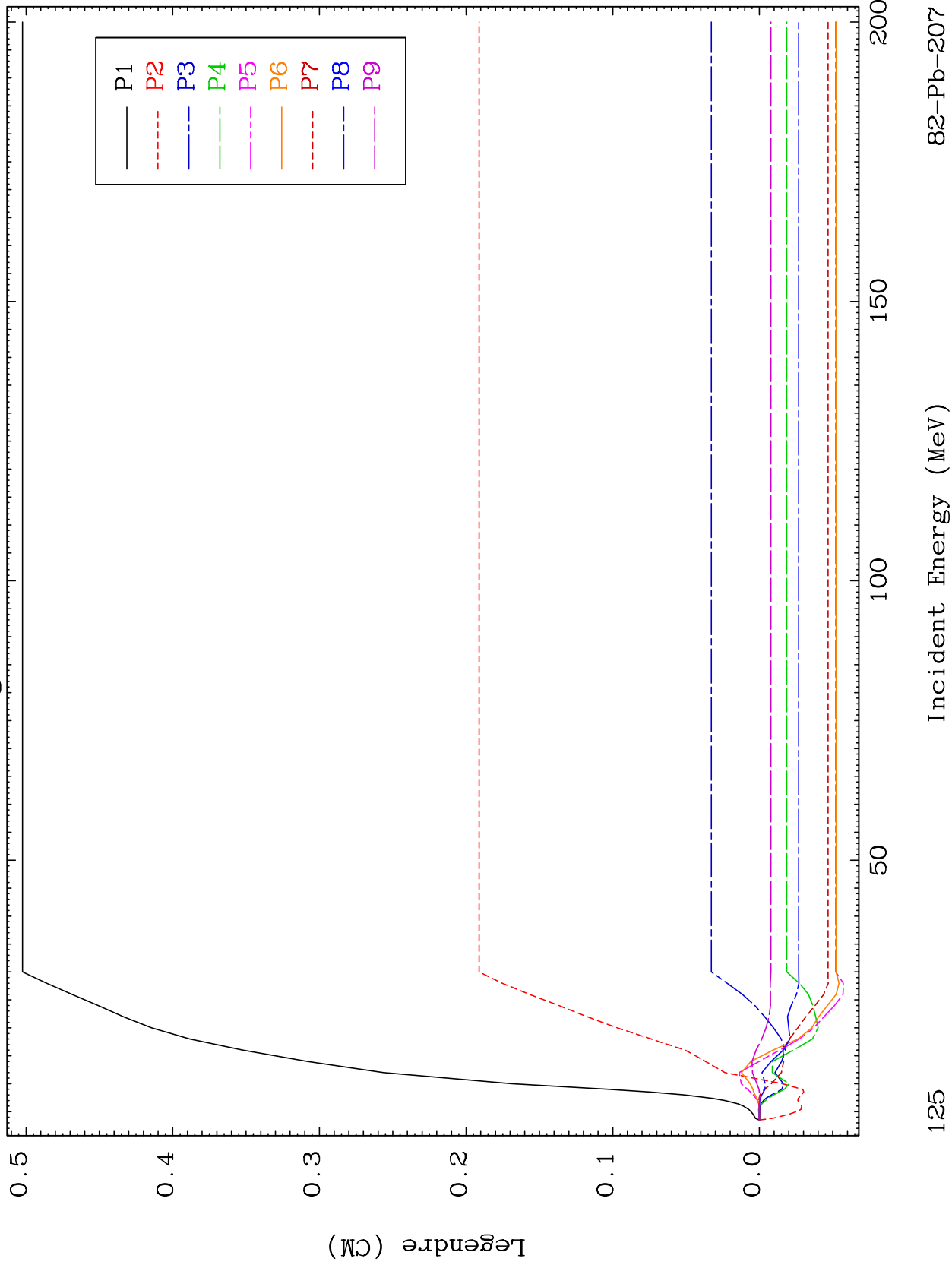
Incident Energy (MeV)

82-Pb-207

MAT 8234

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

82-Pb-207



82-Pb-207

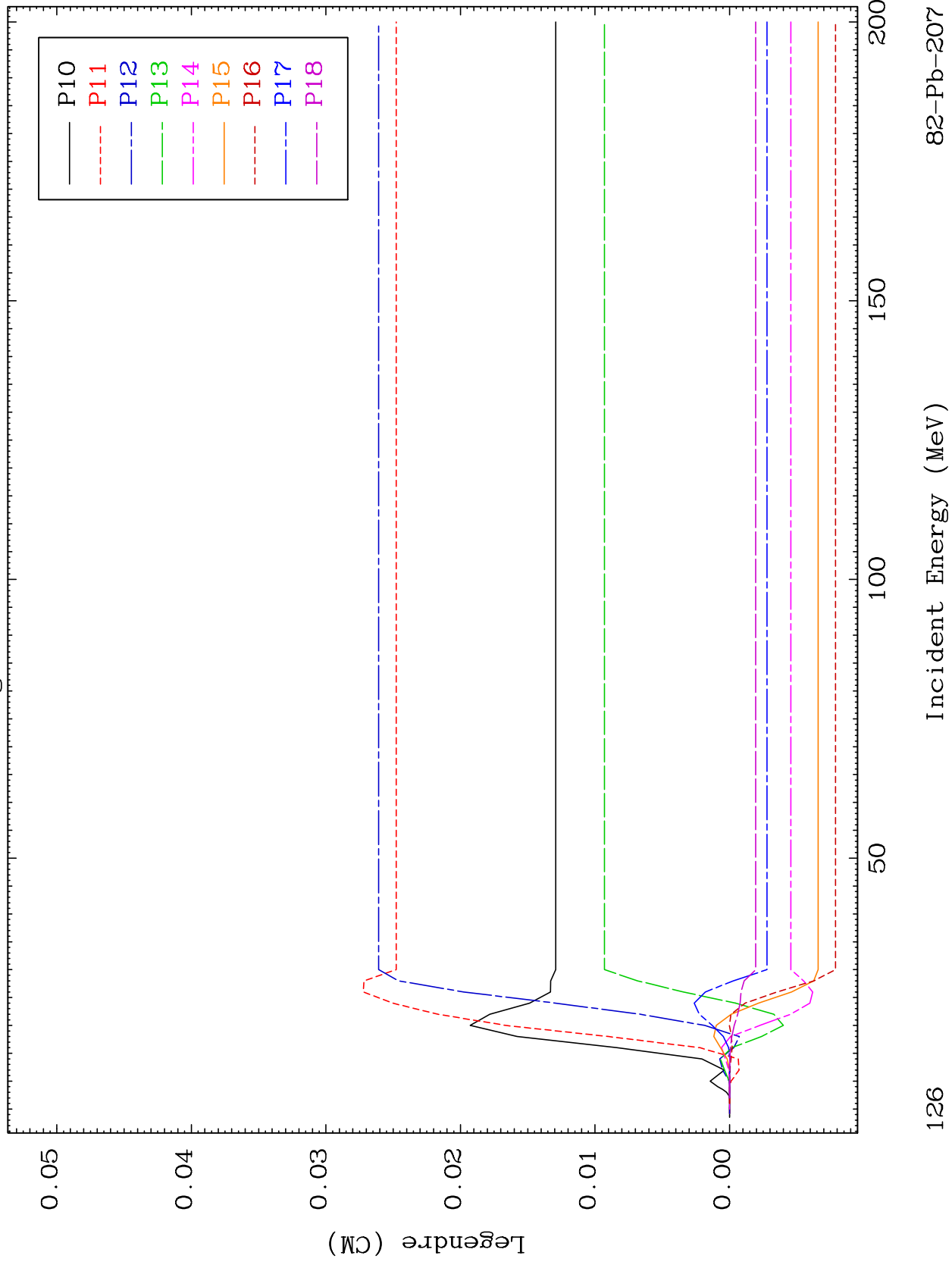
Incident Energy (MeV)

125

MAT 8234

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

82-Pb-207



126

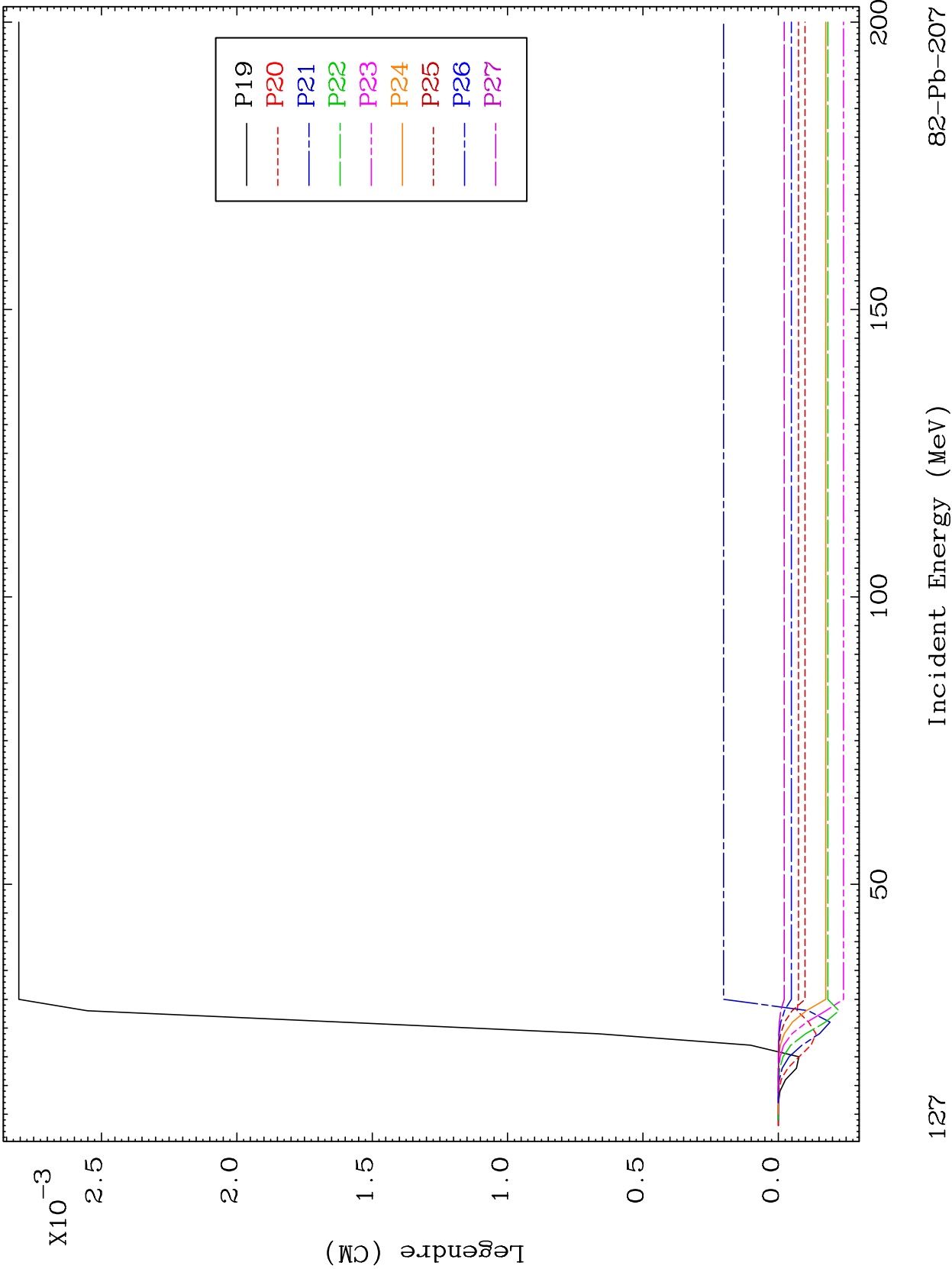
Incident Energy (MeV)

82-Pb-207

MAT 8234

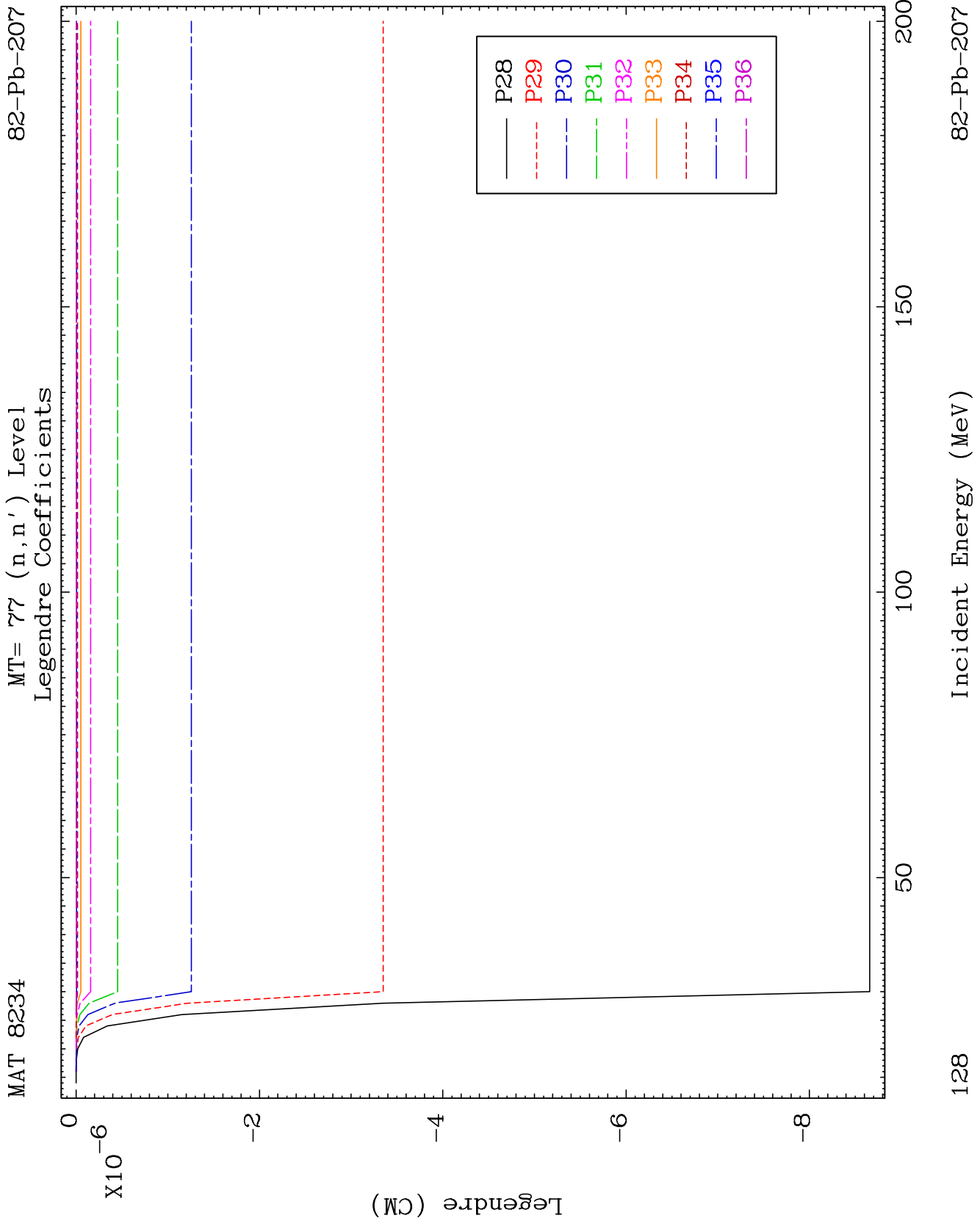
MT= 77 (n,n') Level  
Legendre Coefficients

82-Pb-207



127



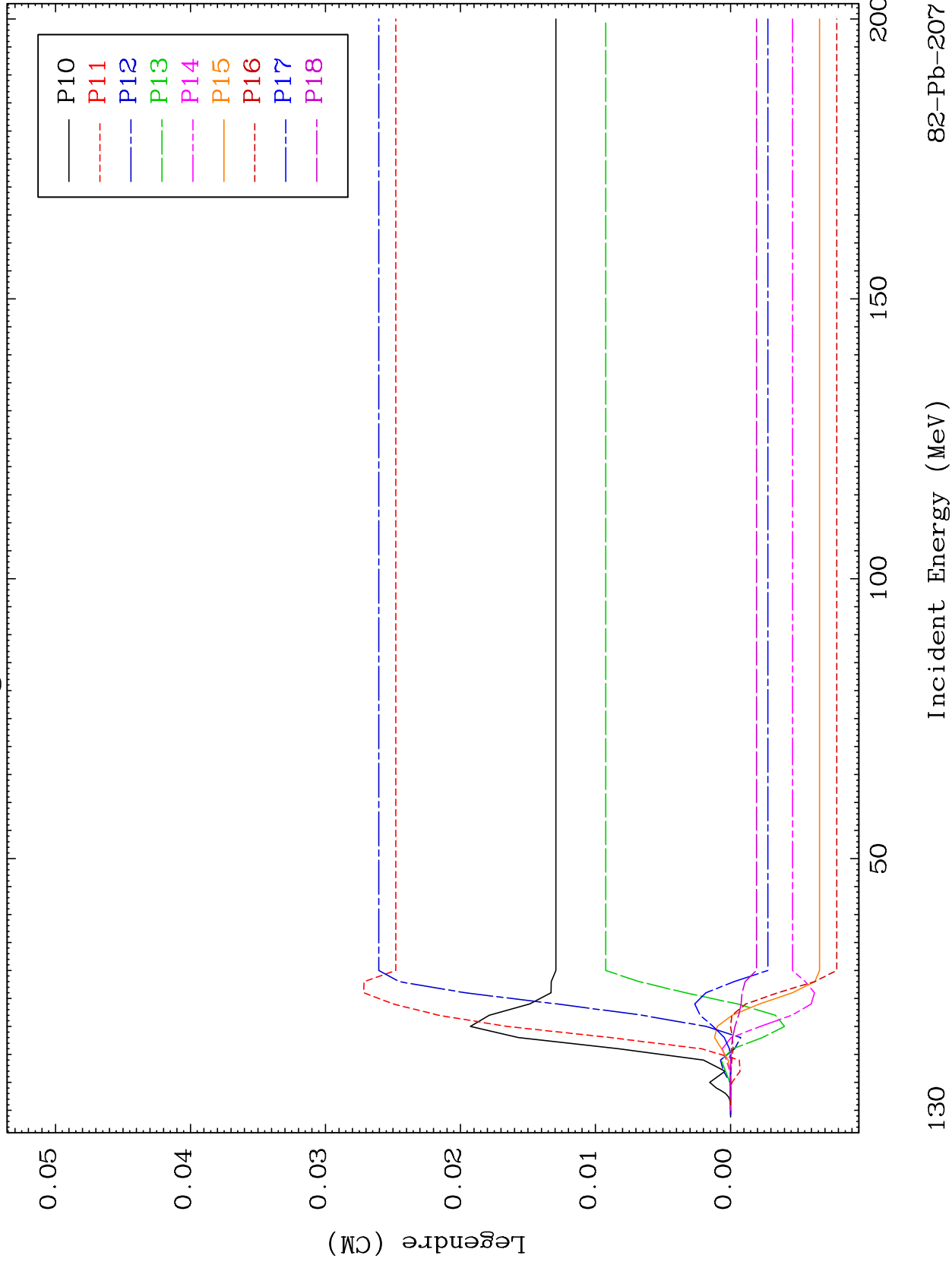




MAT 8234

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

82-Pb-207



130

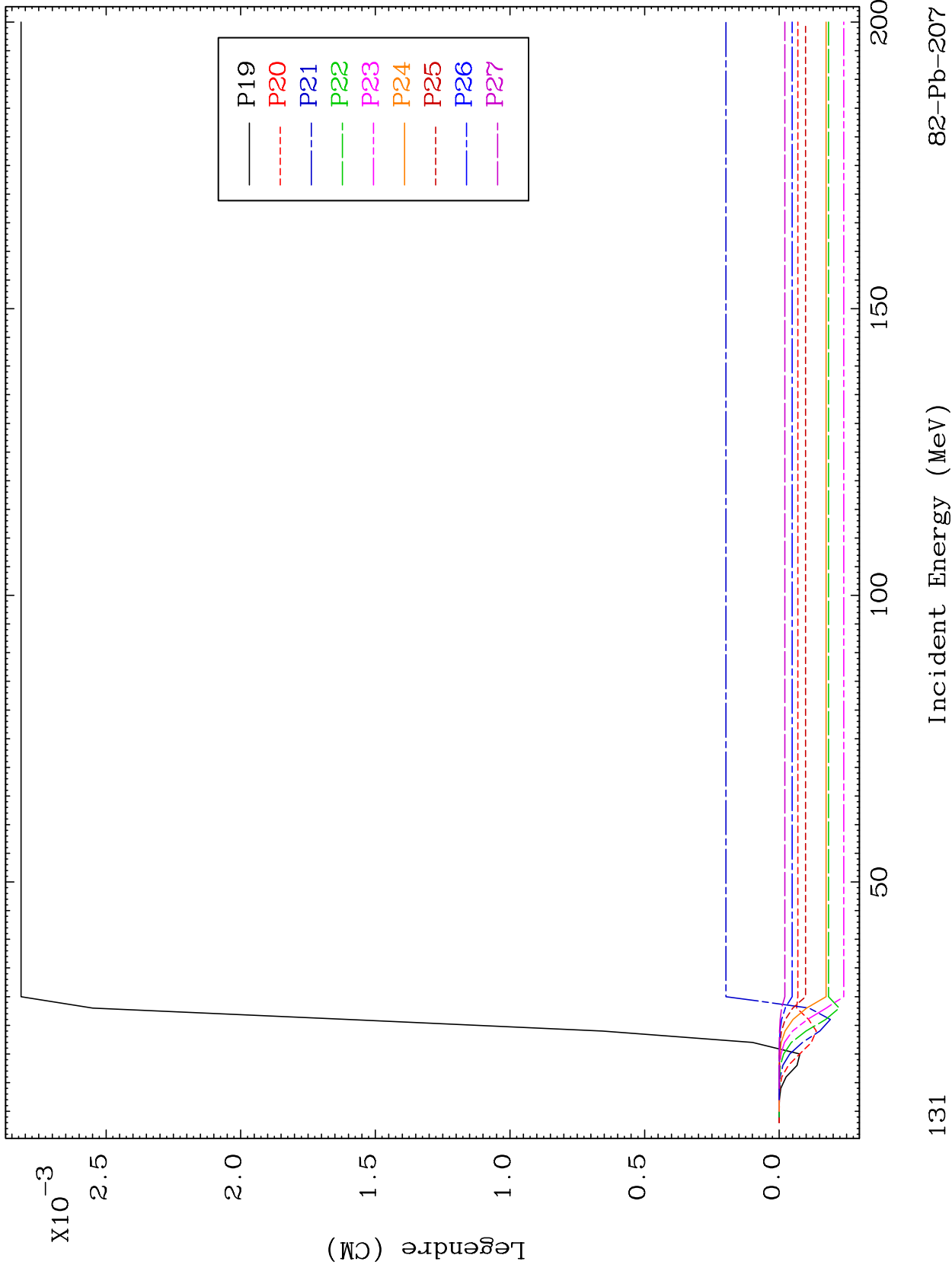
Incident Energy (MeV)

82-Pb-207

MAT 8234

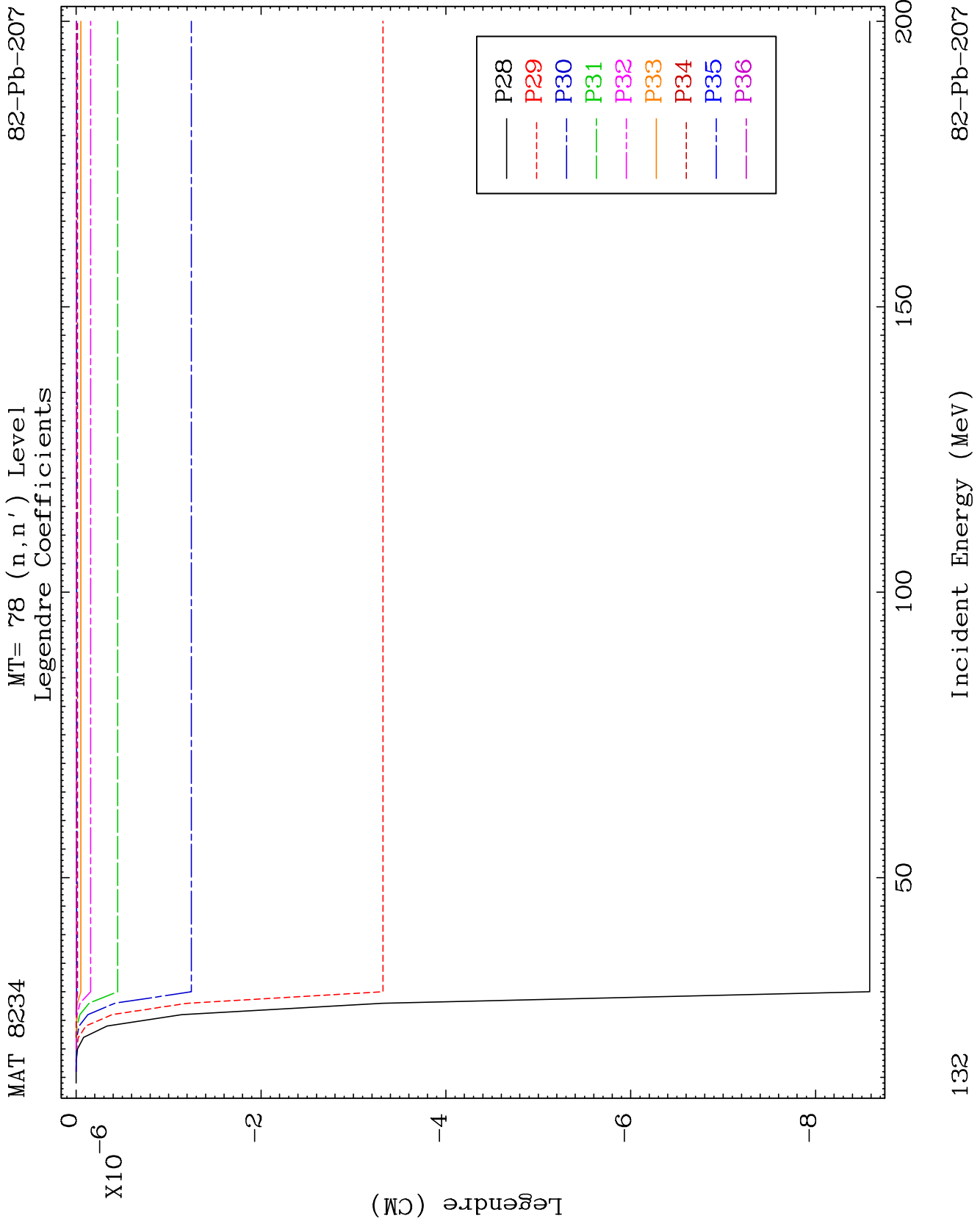
MT= 78 (n,n') Level  
Legendre Coefficients

82-Pb-207



131

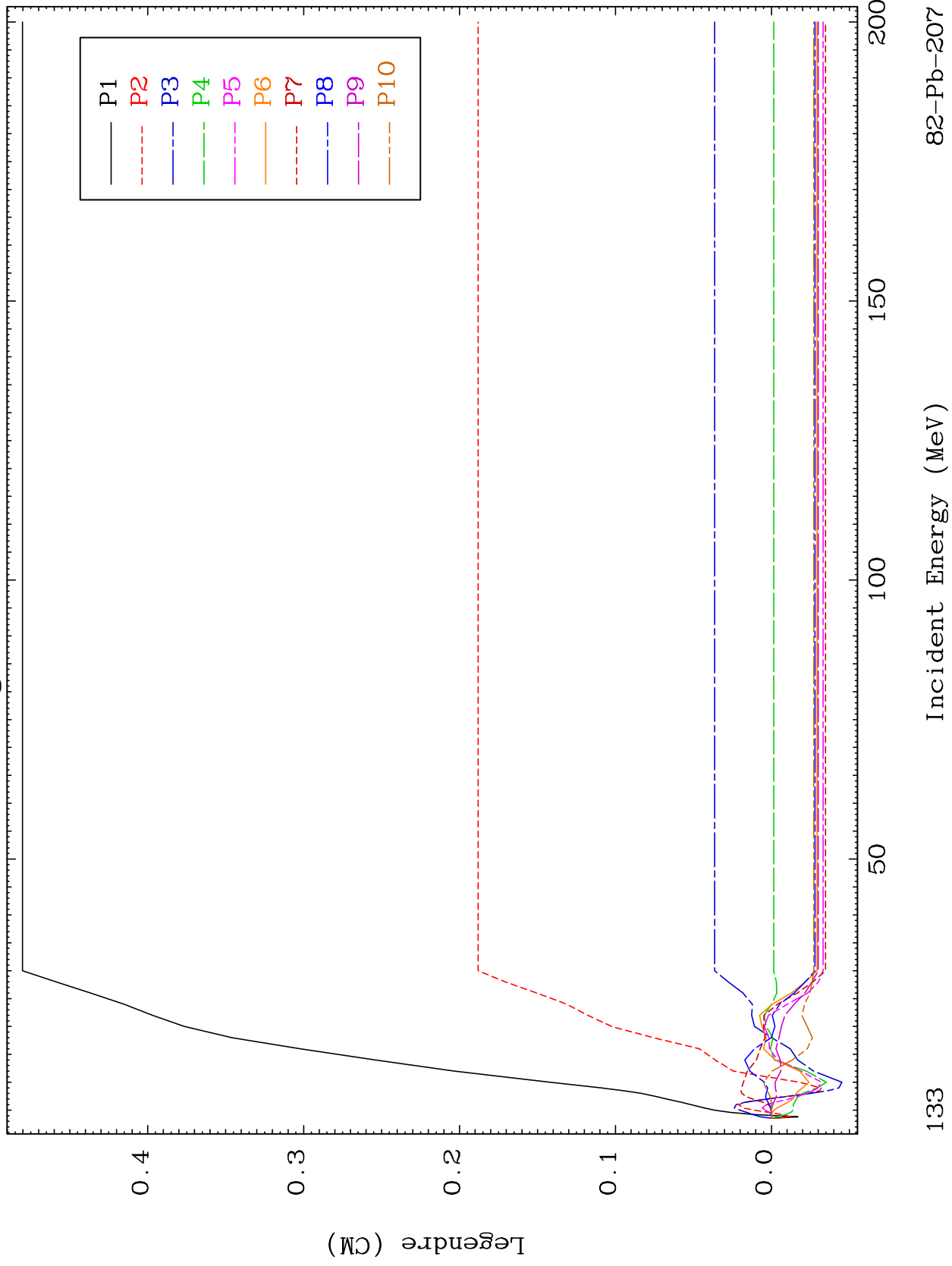
82-Pb-207



MAT 8234

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

82-Pb-207



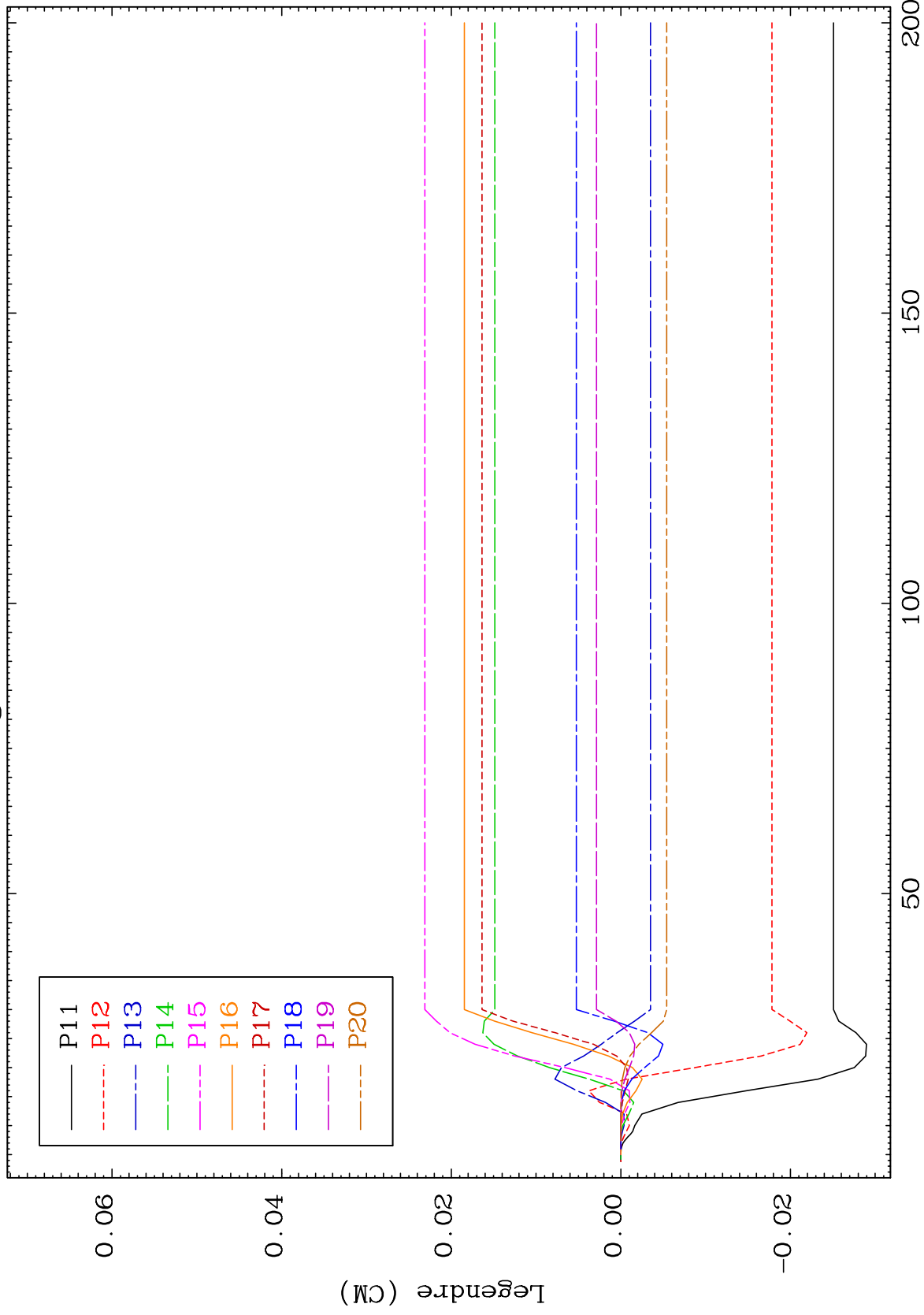
133

82-Pb-207

MAT 8234

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

82-Pb-207



134

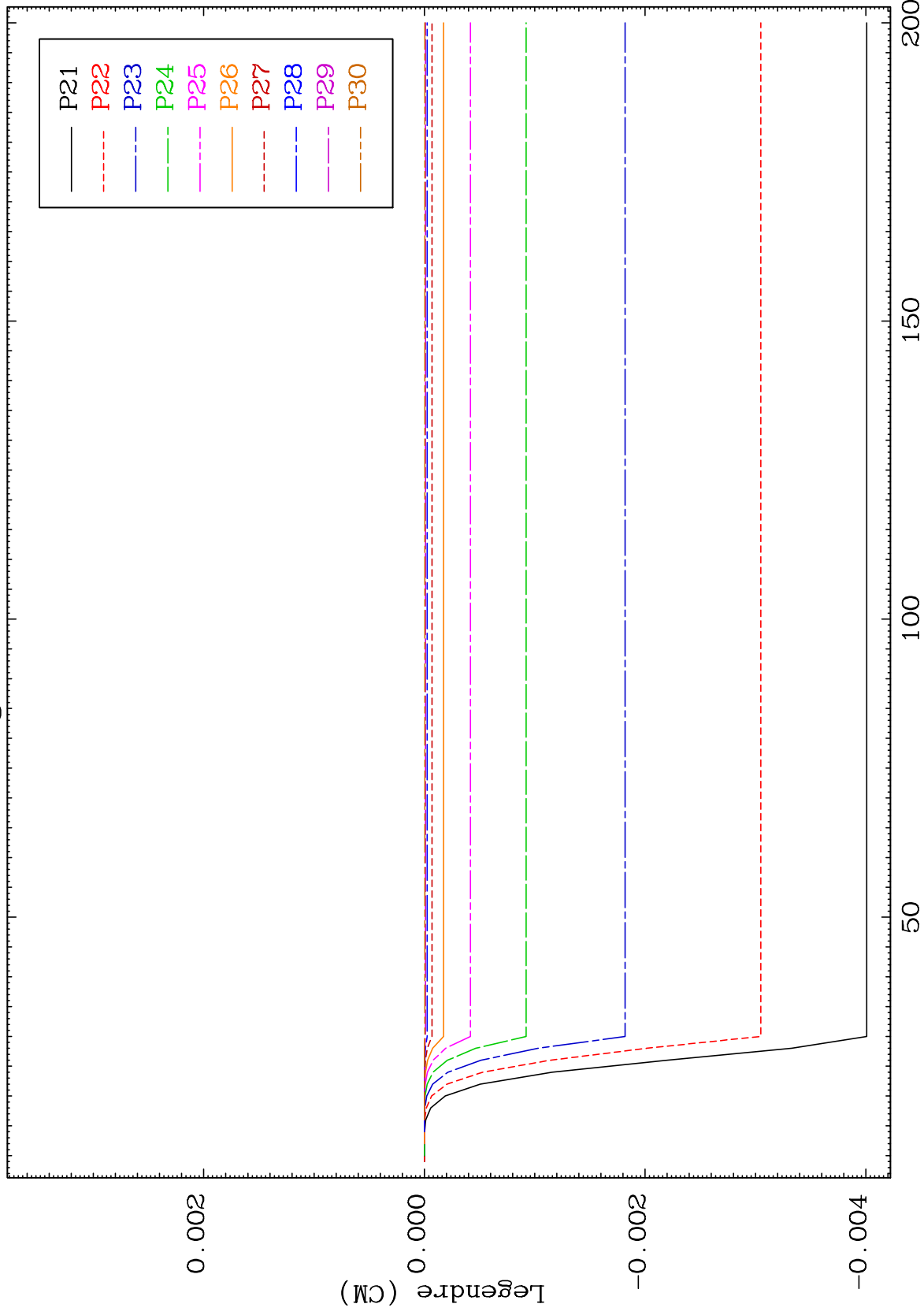
Incident Energy (MeV)

82-Pb-207

MAT 8234

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

82-Pb-207

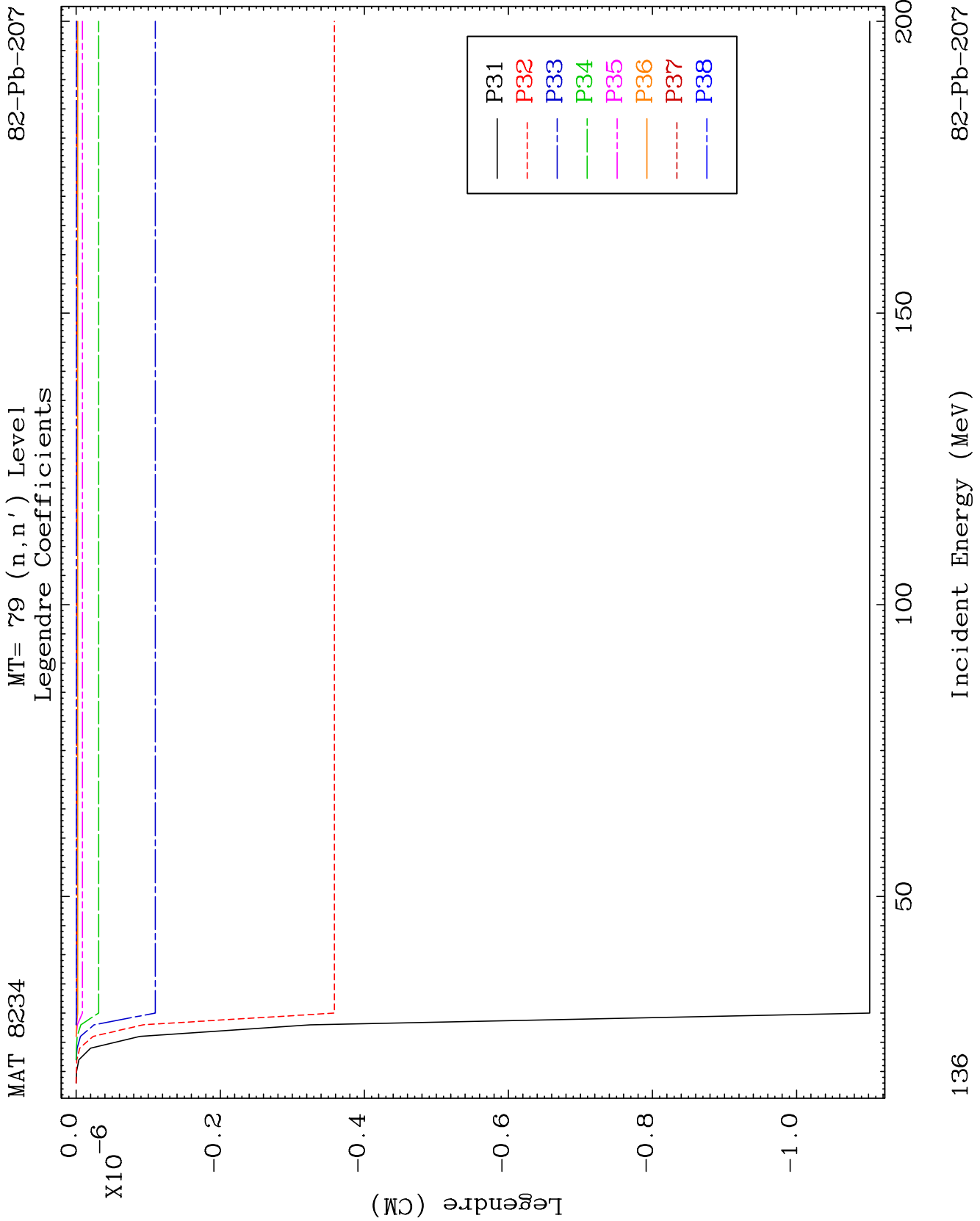


135

Incident Energy (MeV)

82-Pb-207

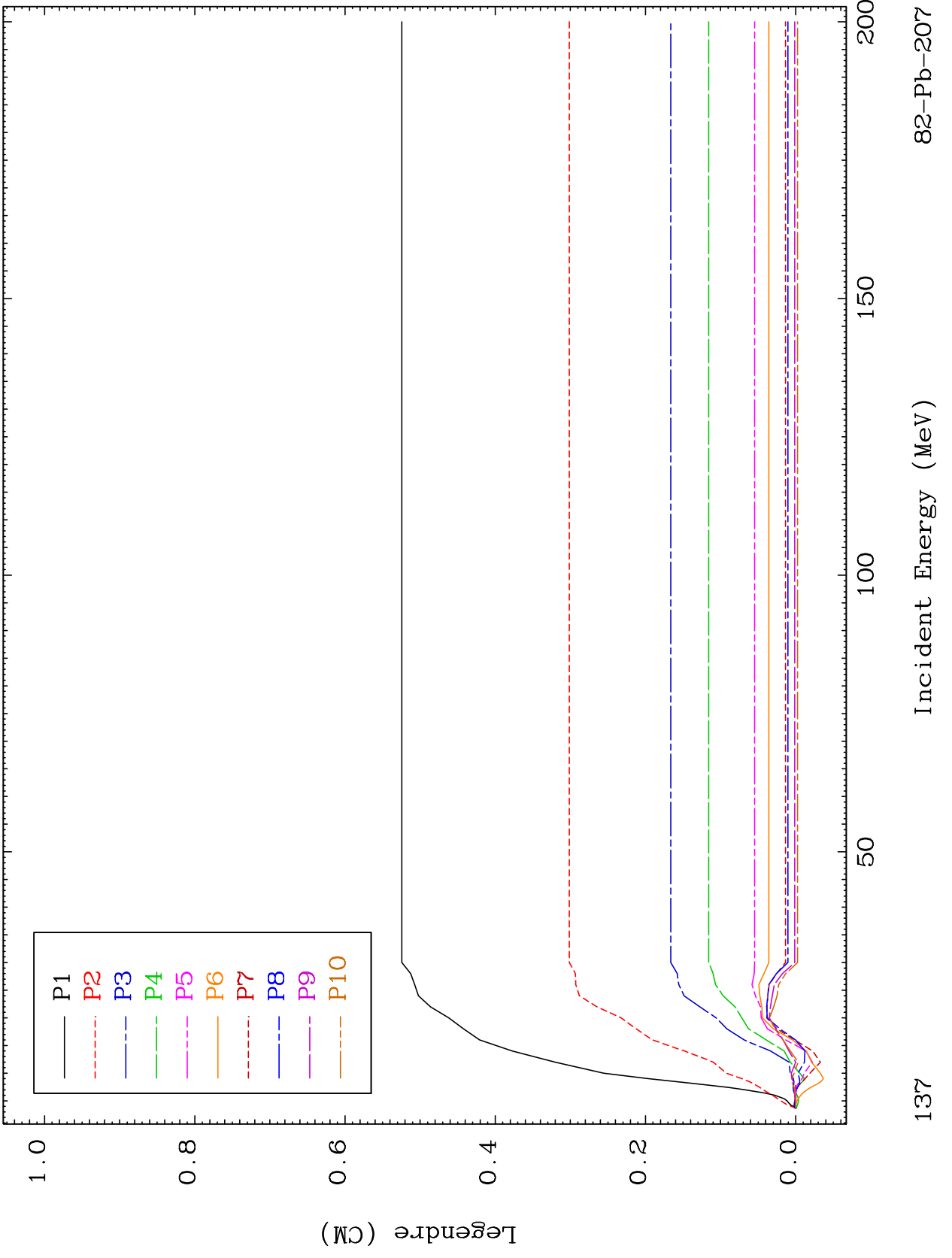




MAT 8234

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

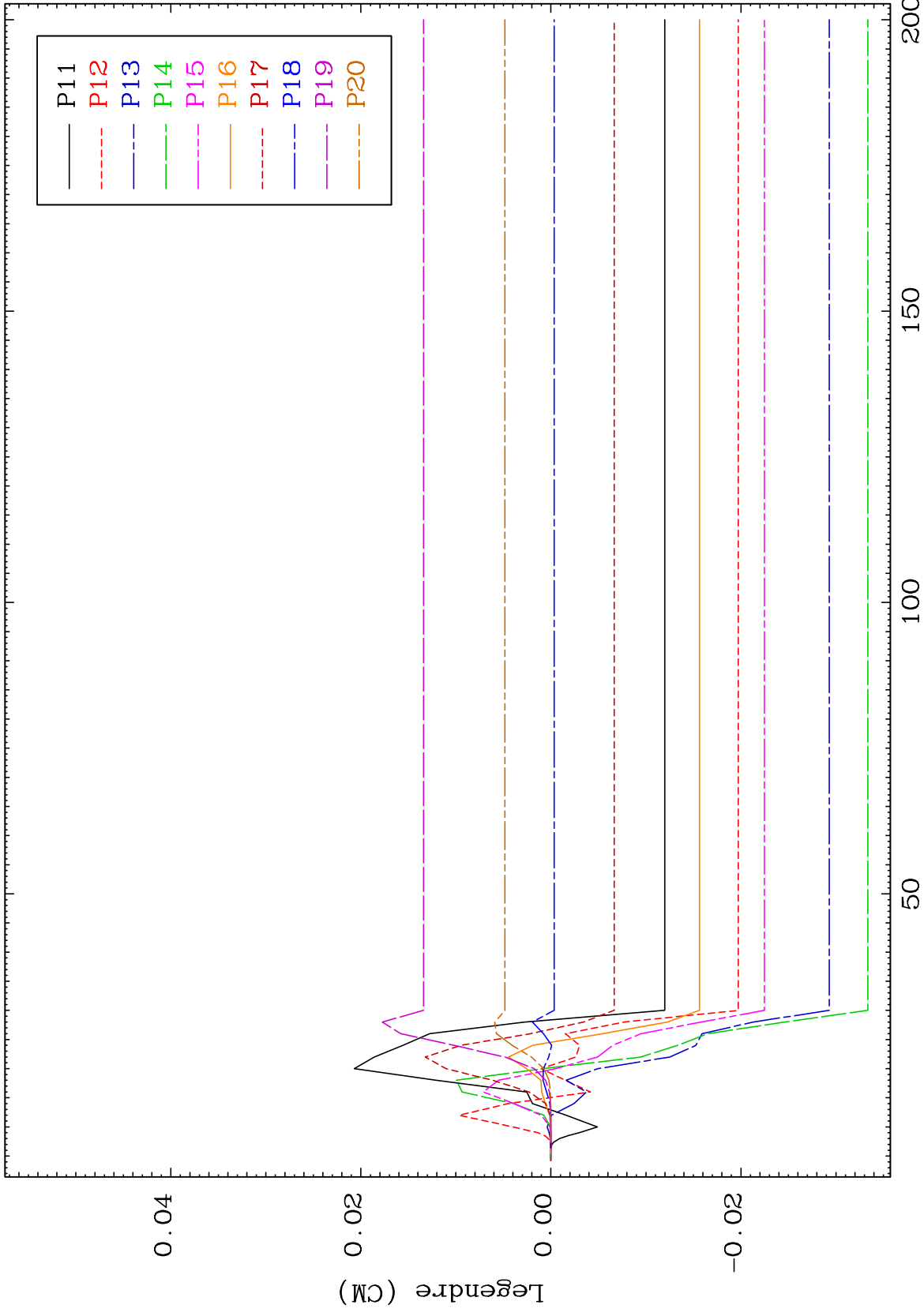
82-Pb-207



MAT 8234

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

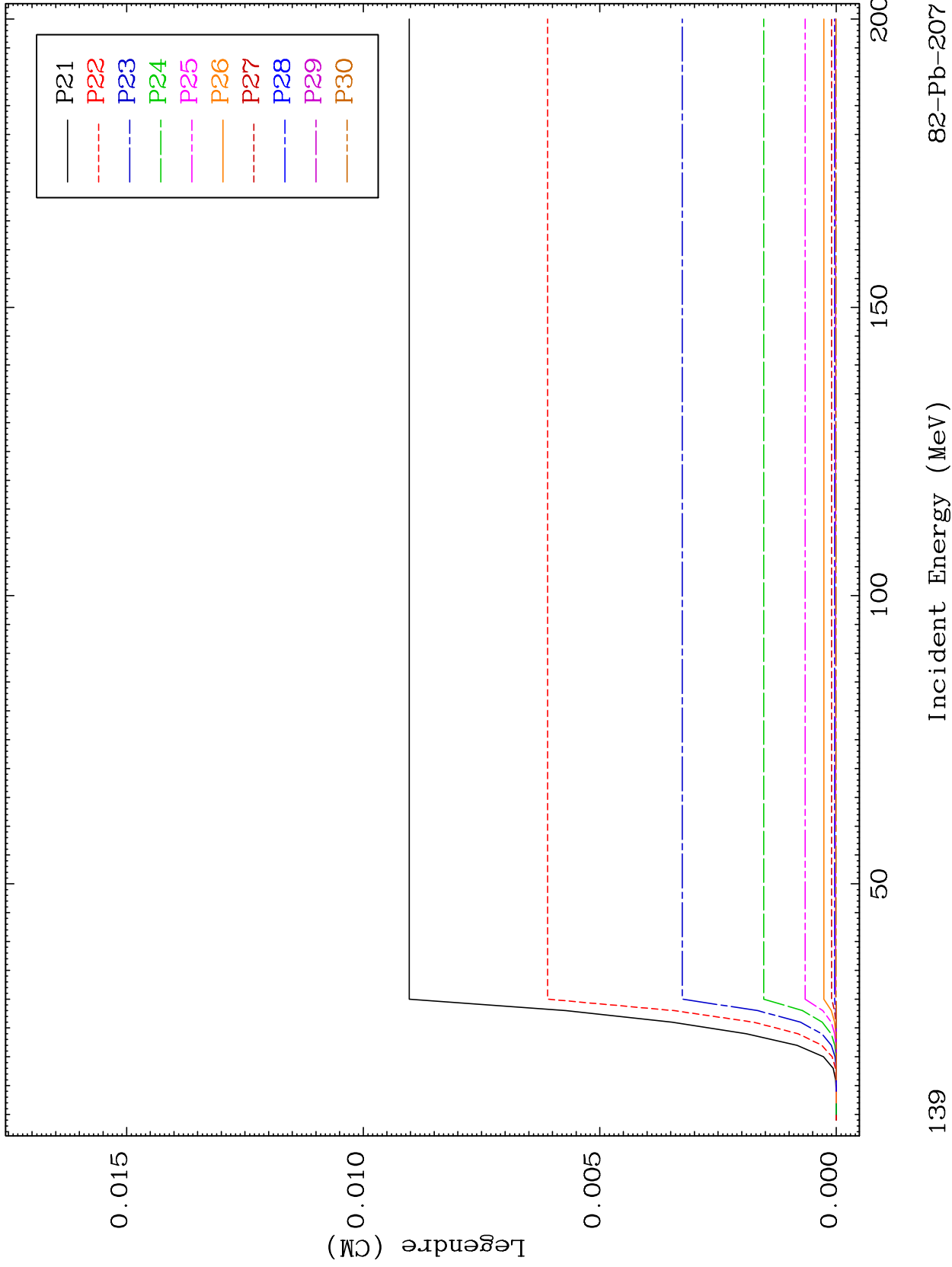
82-Pb-207



MAT 8234

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

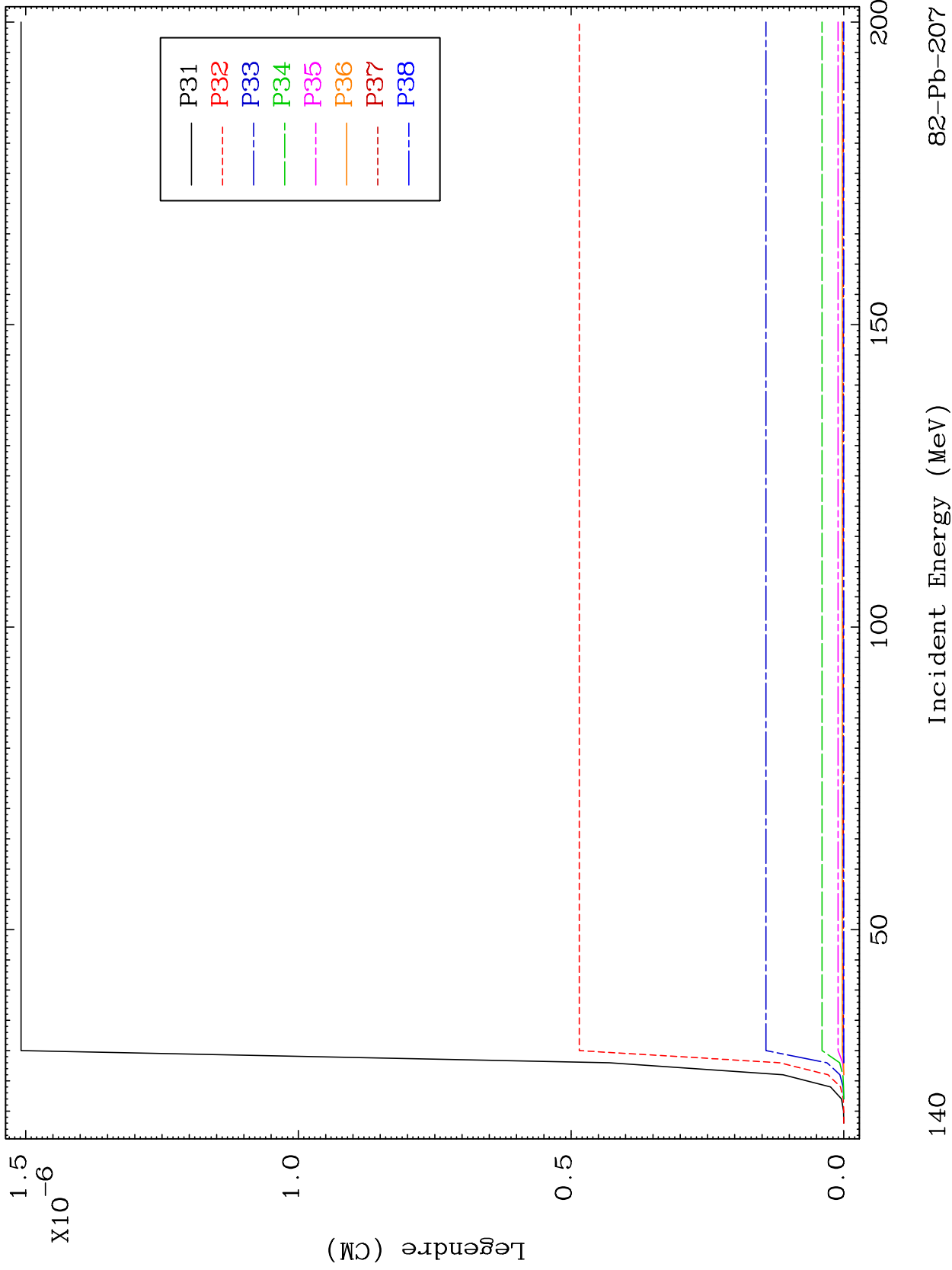
82-Pb-207



MAT 8234

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

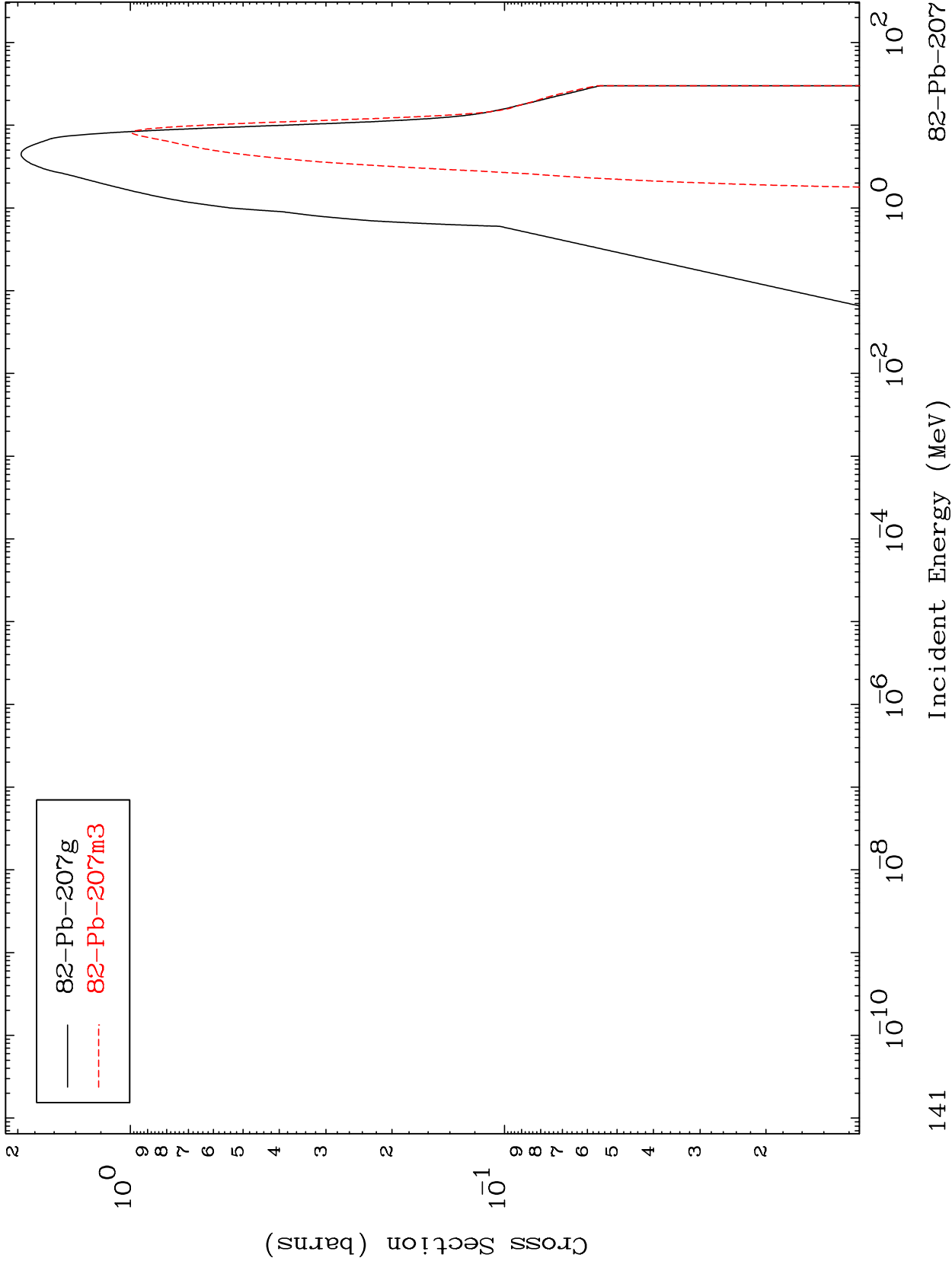
82-Pb-207



MAT 8234

Inelastic  
Radionuclide Production Cross Section

82-Pb-207

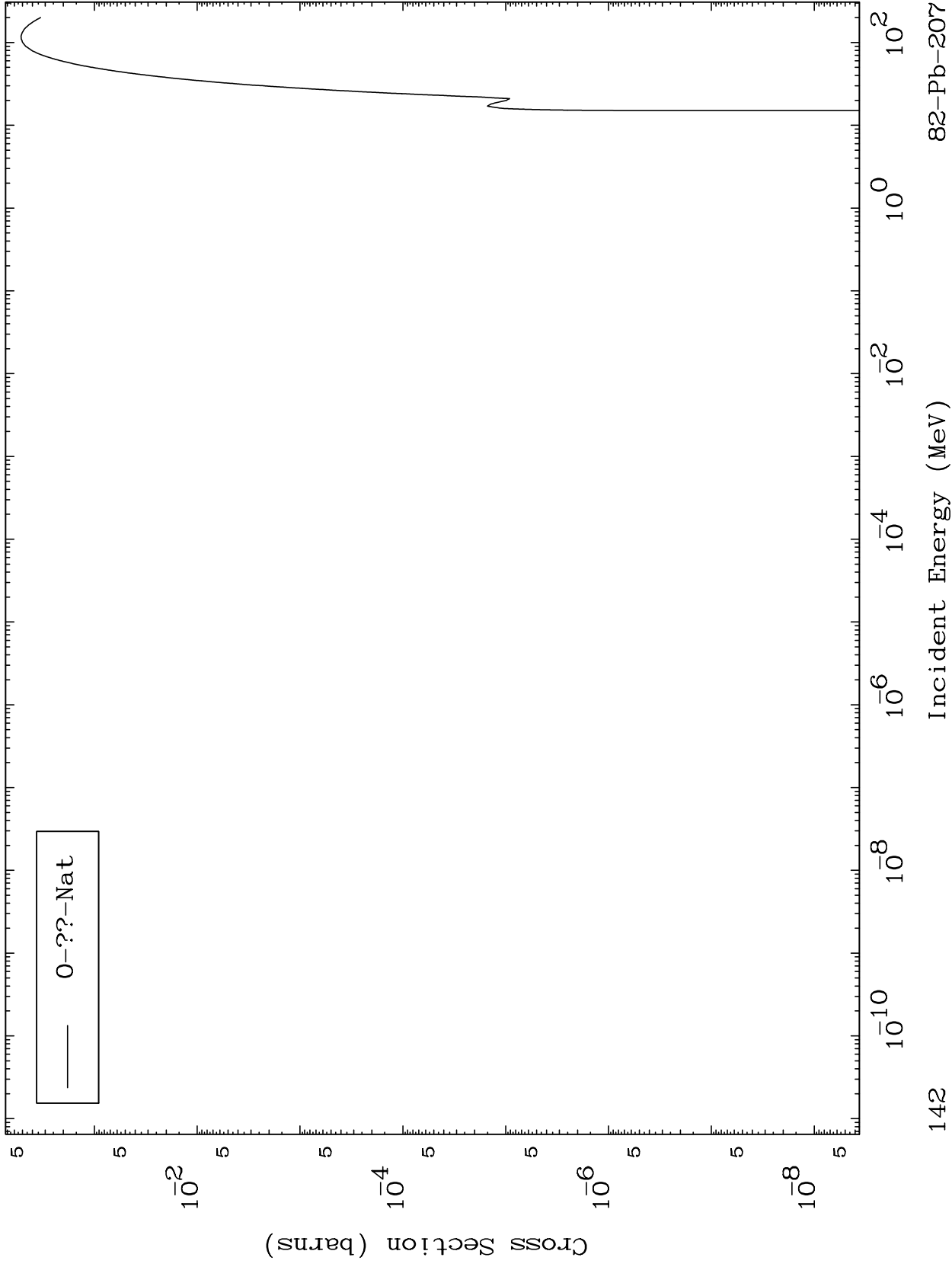


82-Pb-207g  
82-Pb-207m3

MAT 8234

Fission  
Radionuclide Production Cross Section

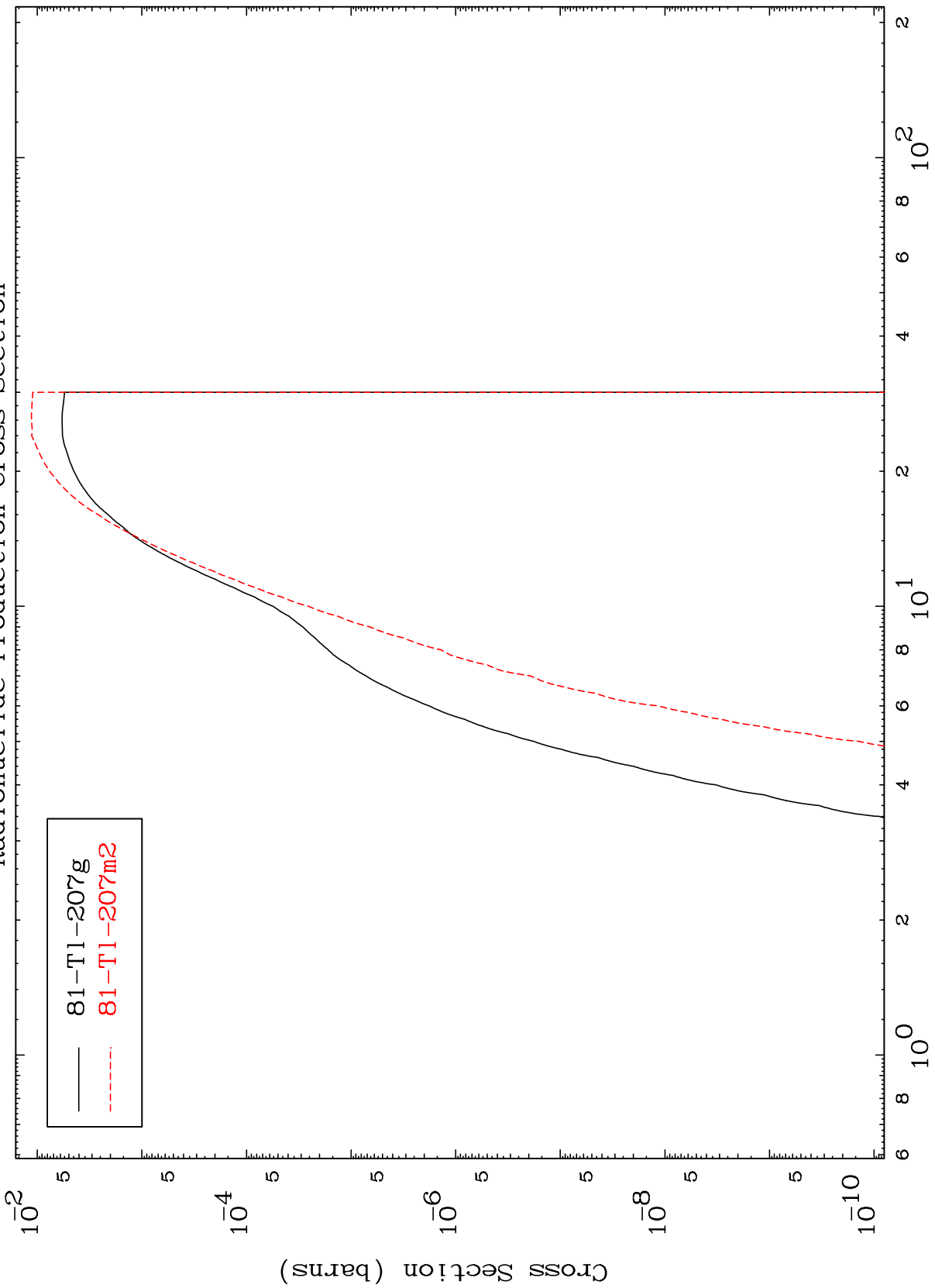
82-Pb-207



MAT 8234

82-Pb-207

(n,p)  
Radionuclide Production Cross Section



— 81-Tl-207g  
- - - 81-Tl-207m2

82-Pb-207

Incident Energy (MeV)

143