

Program EVALPLOT  
(Version 2021-1)

by

Dermott E. Cullen  
(Present Contact Information)

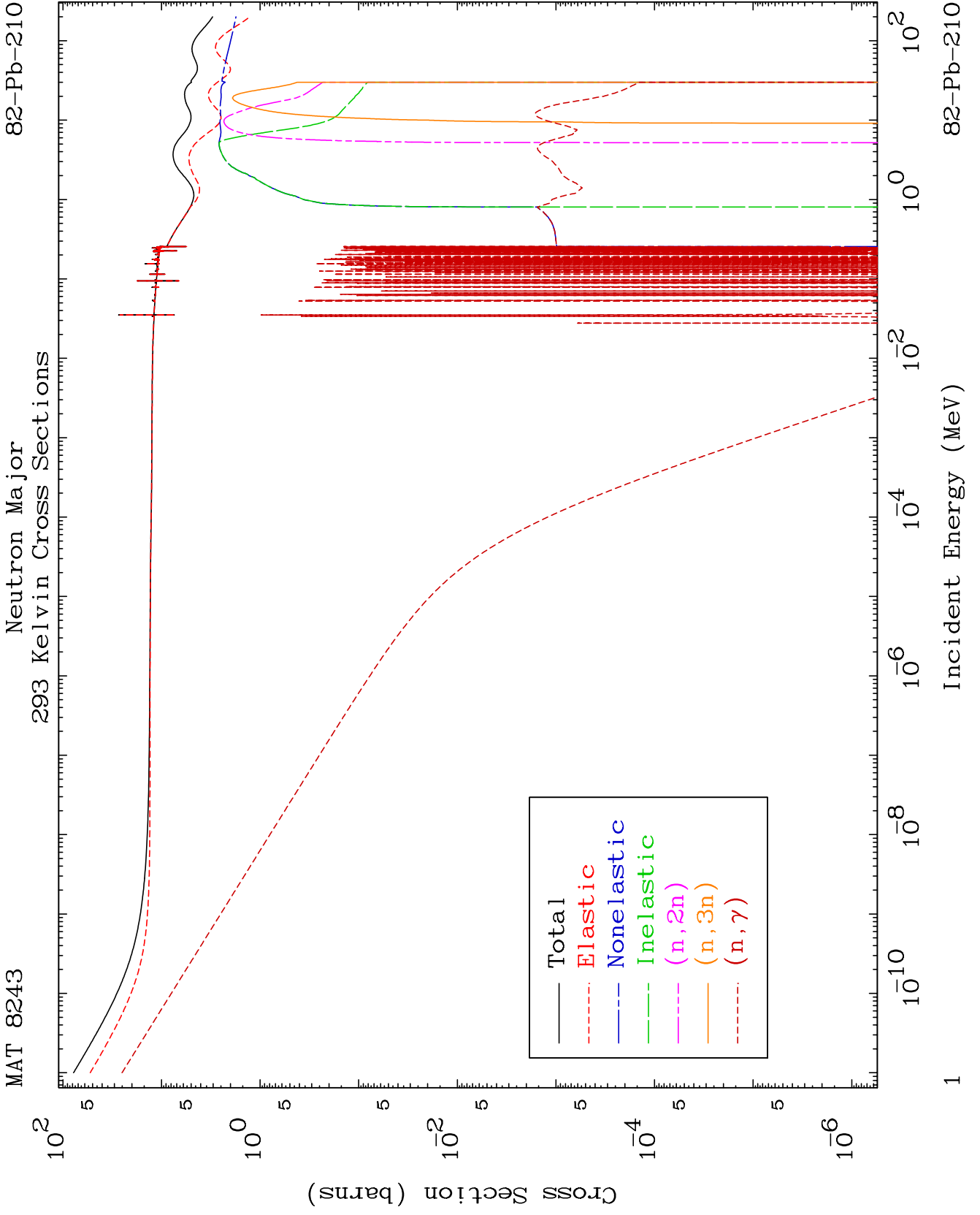
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E.Mail:redcullen1@comcast.net

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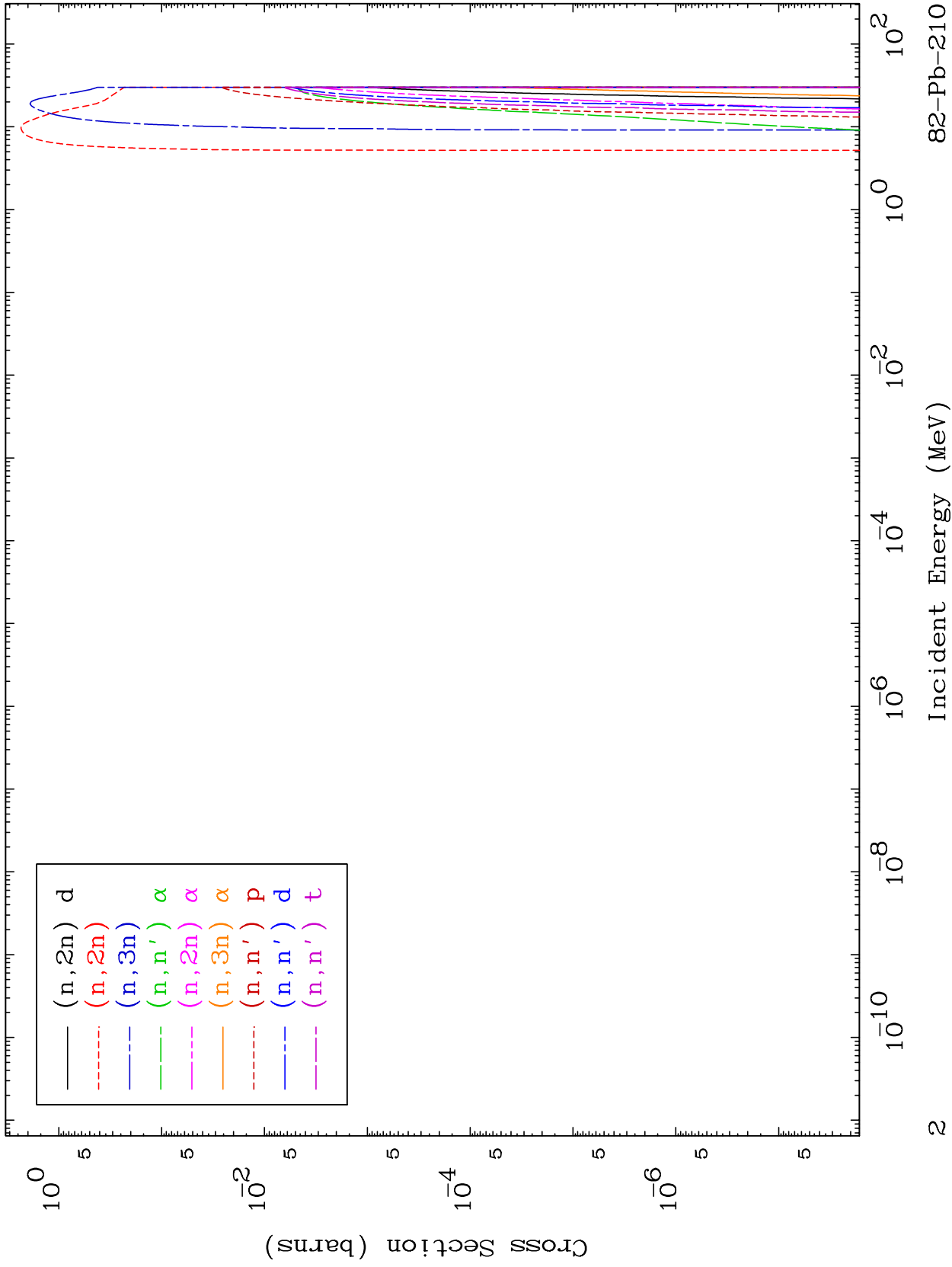
Press Mouse Button to Start



MAT 8243

Neutron Absorption  
293 Kelvin Cross Sections

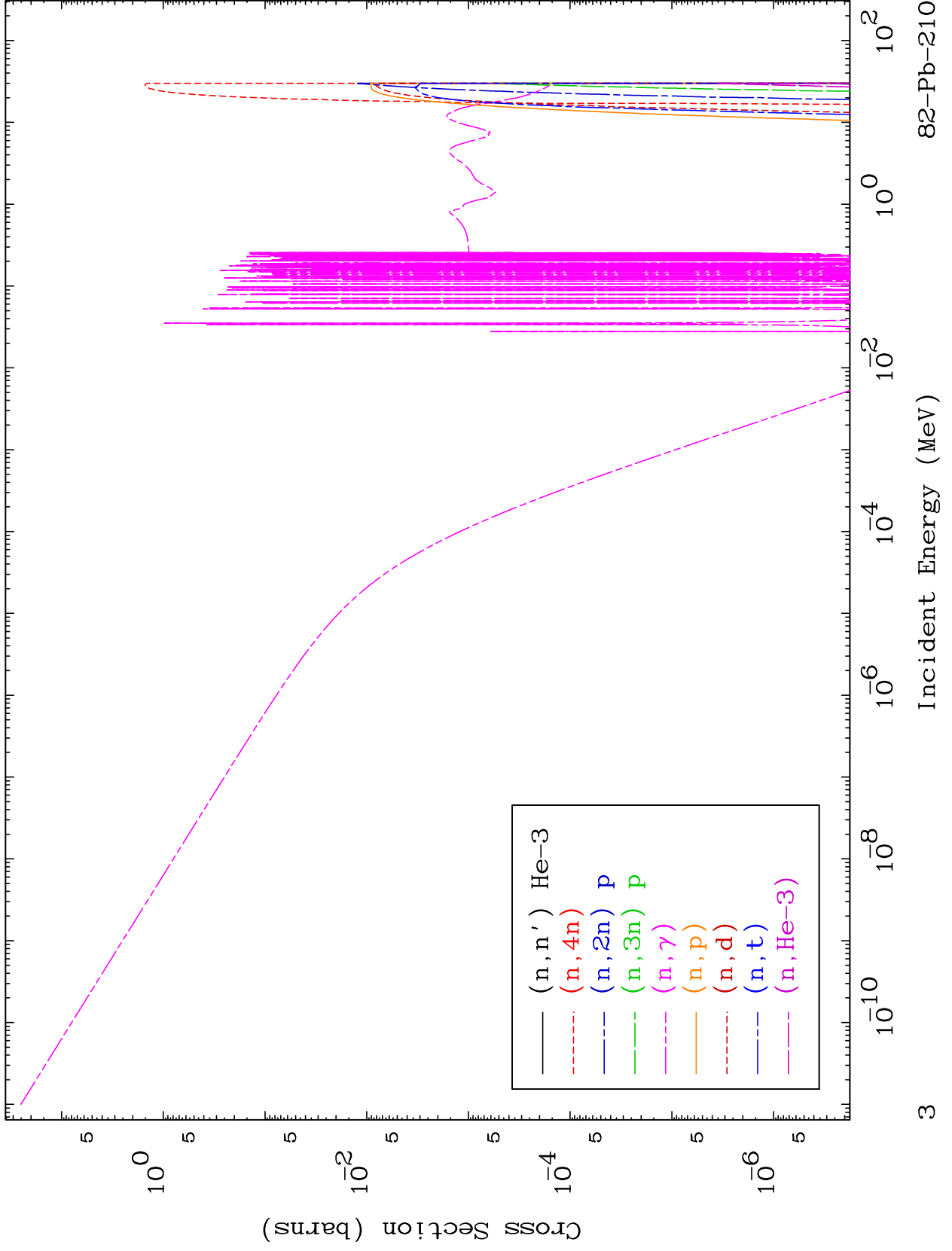
82-Pb-210

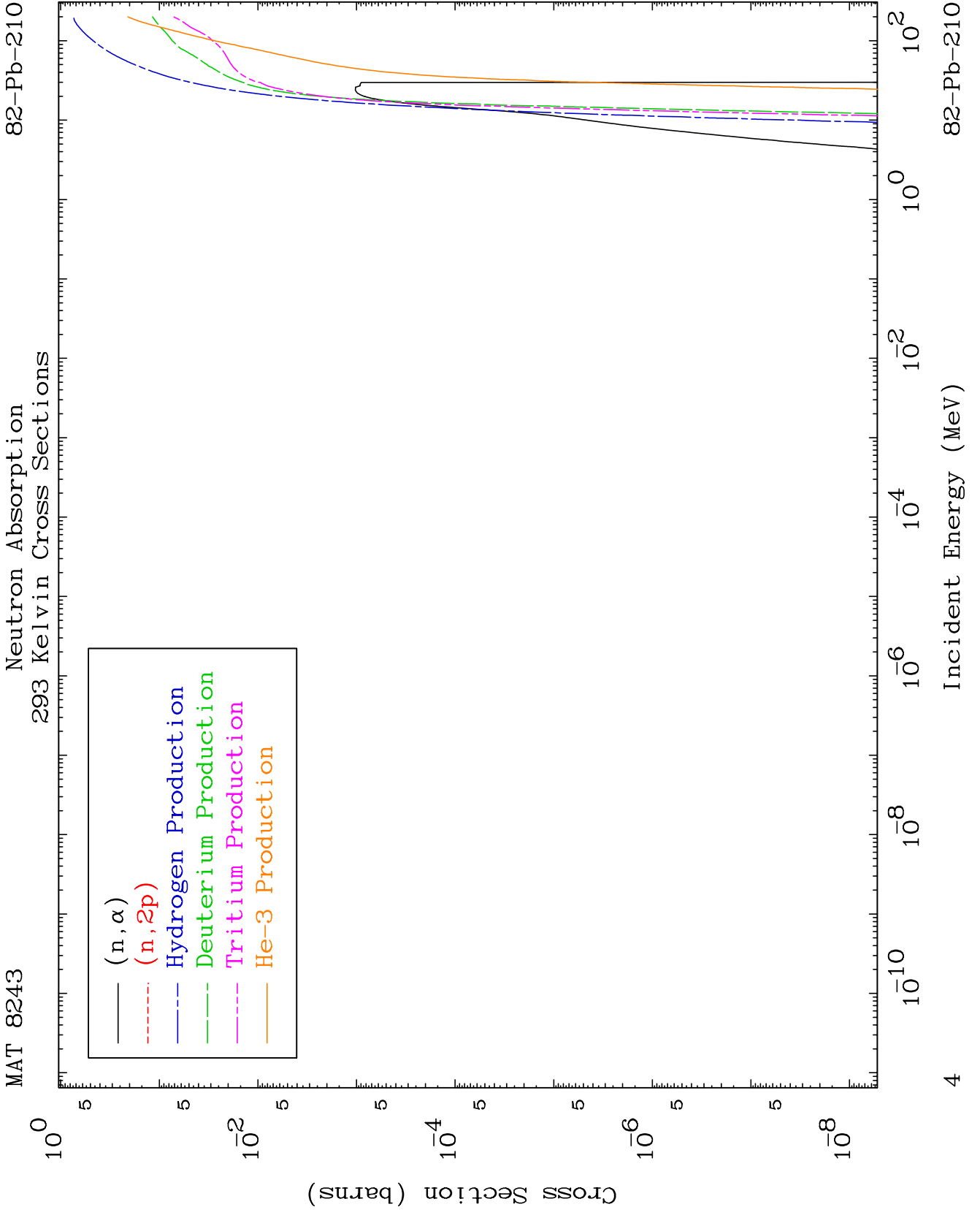


MAT 8243

Neutron Absorption  
293 Kelvin Cross Sections

82-Pb-210

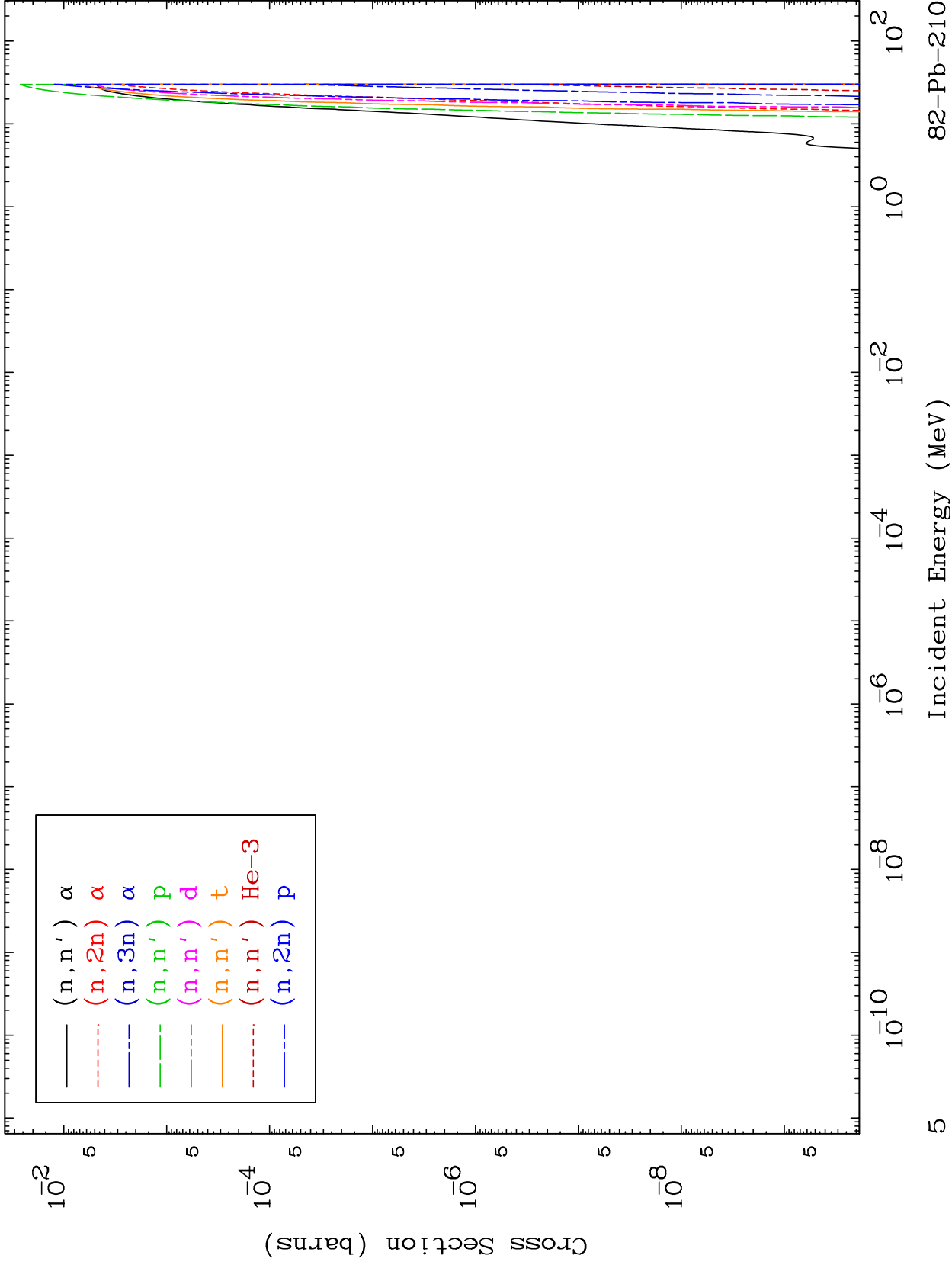




MAT 8243

Charged Particle  
293 Kelvin Cross Sections

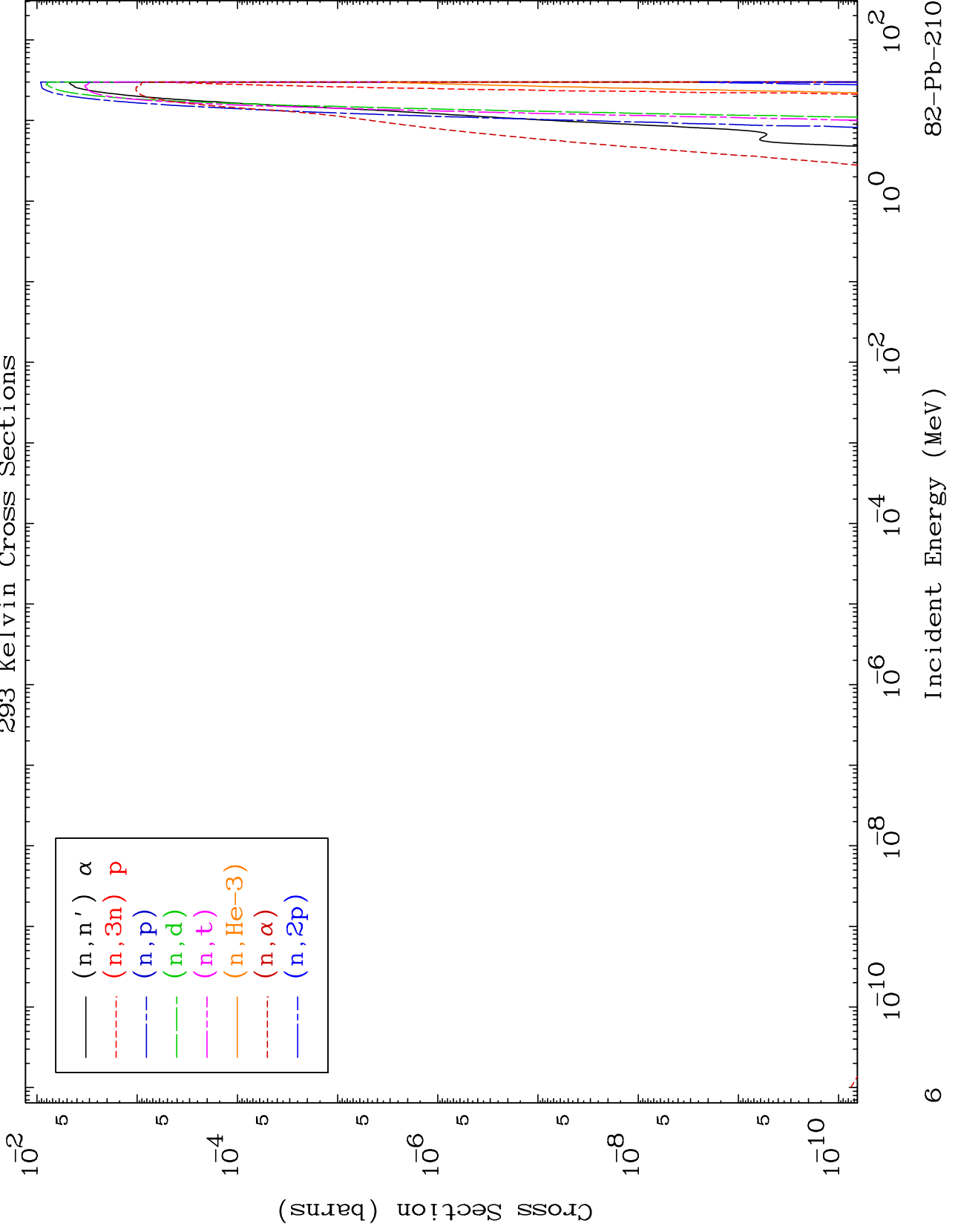
82-Pb-210



MAT 8243

Charged Particle  
293 Kelvin Cross Sections

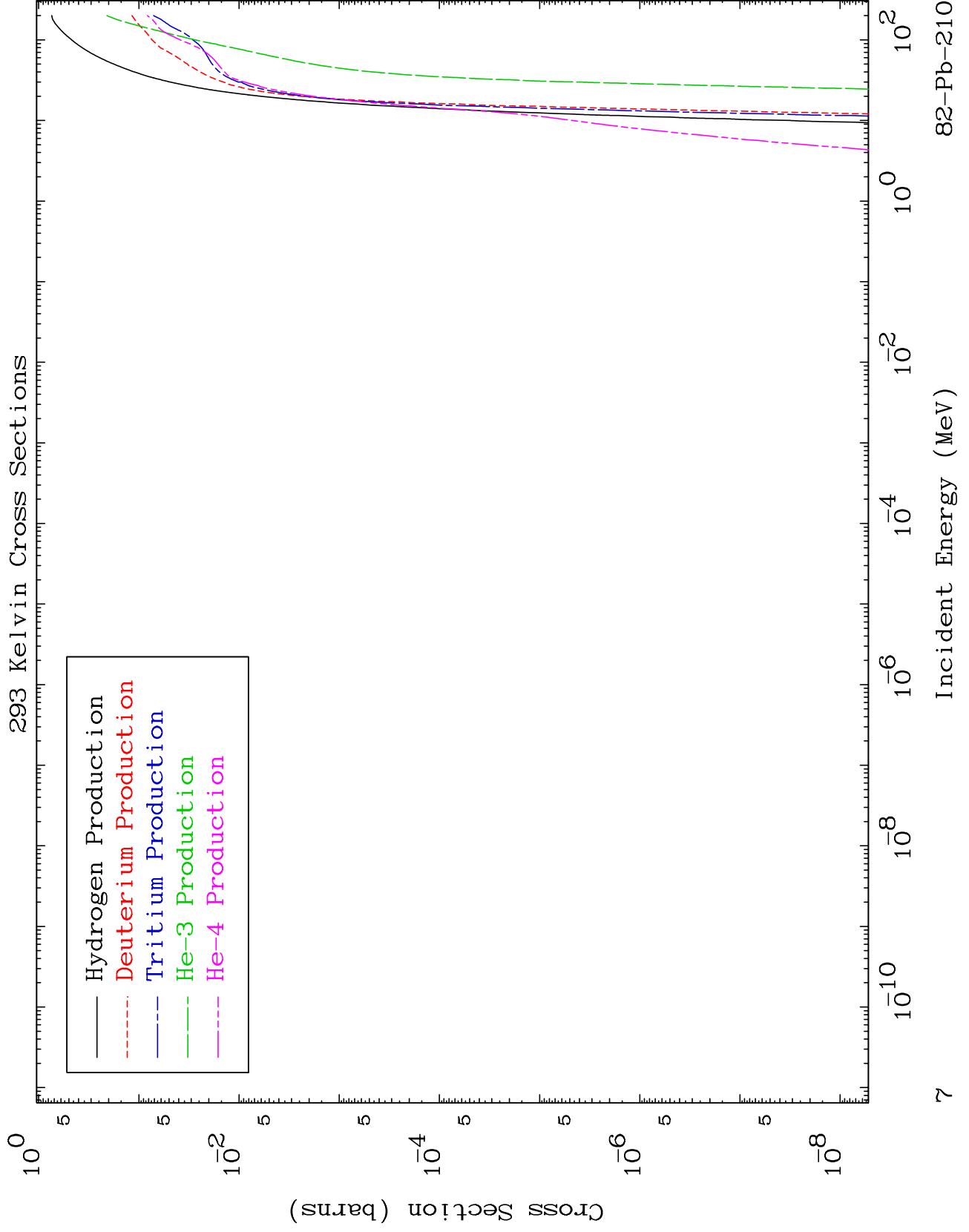
82-Pb-210



MAT 8243

Particle Production  
293 Kelvin Cross Sections

82-Pb-210

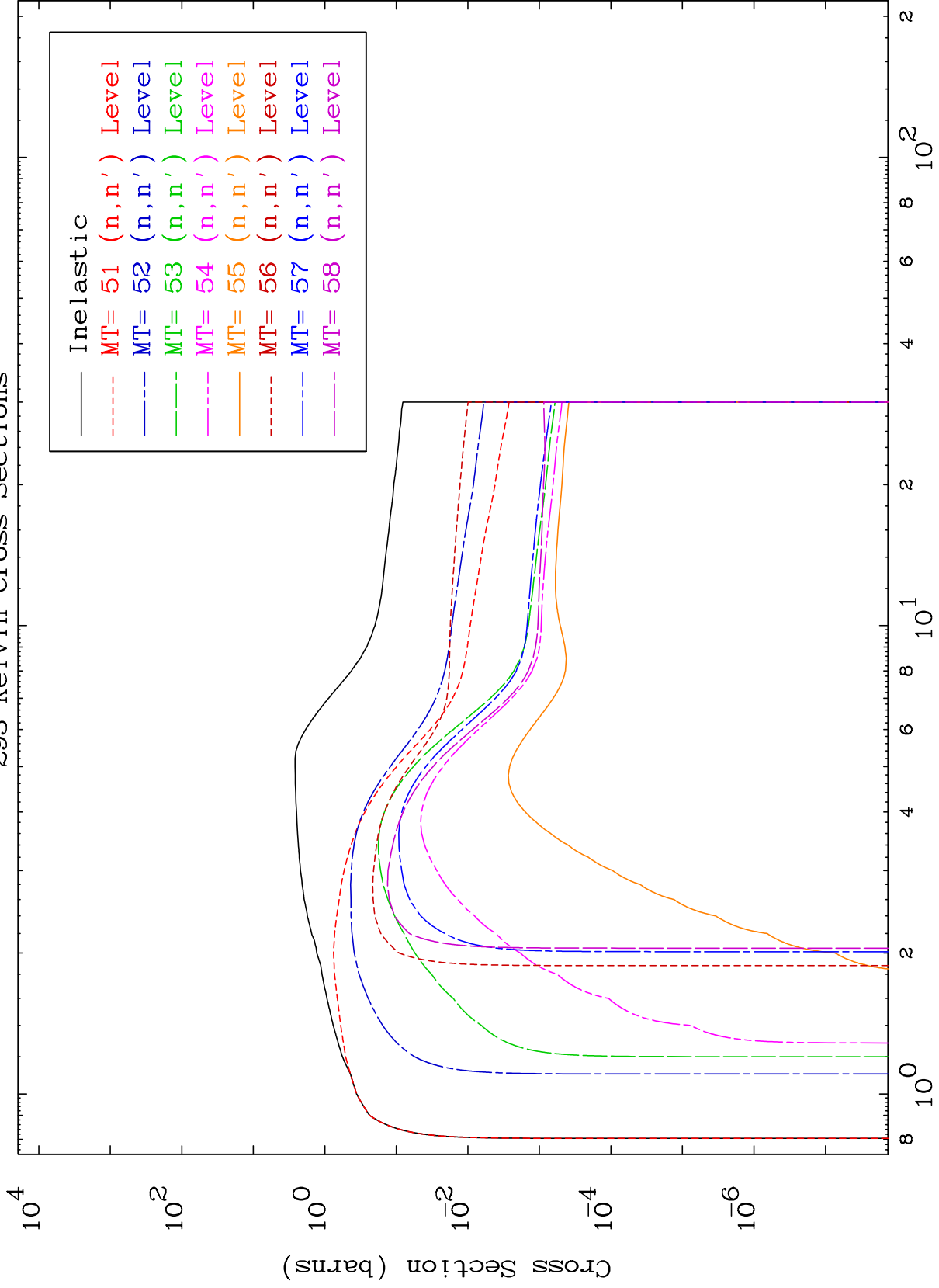


MAT 8243

(n,n') Levels

82-Pb-210

293 Kelvin Cross Sections



Incident Energy (MeV)

82-Pb-210

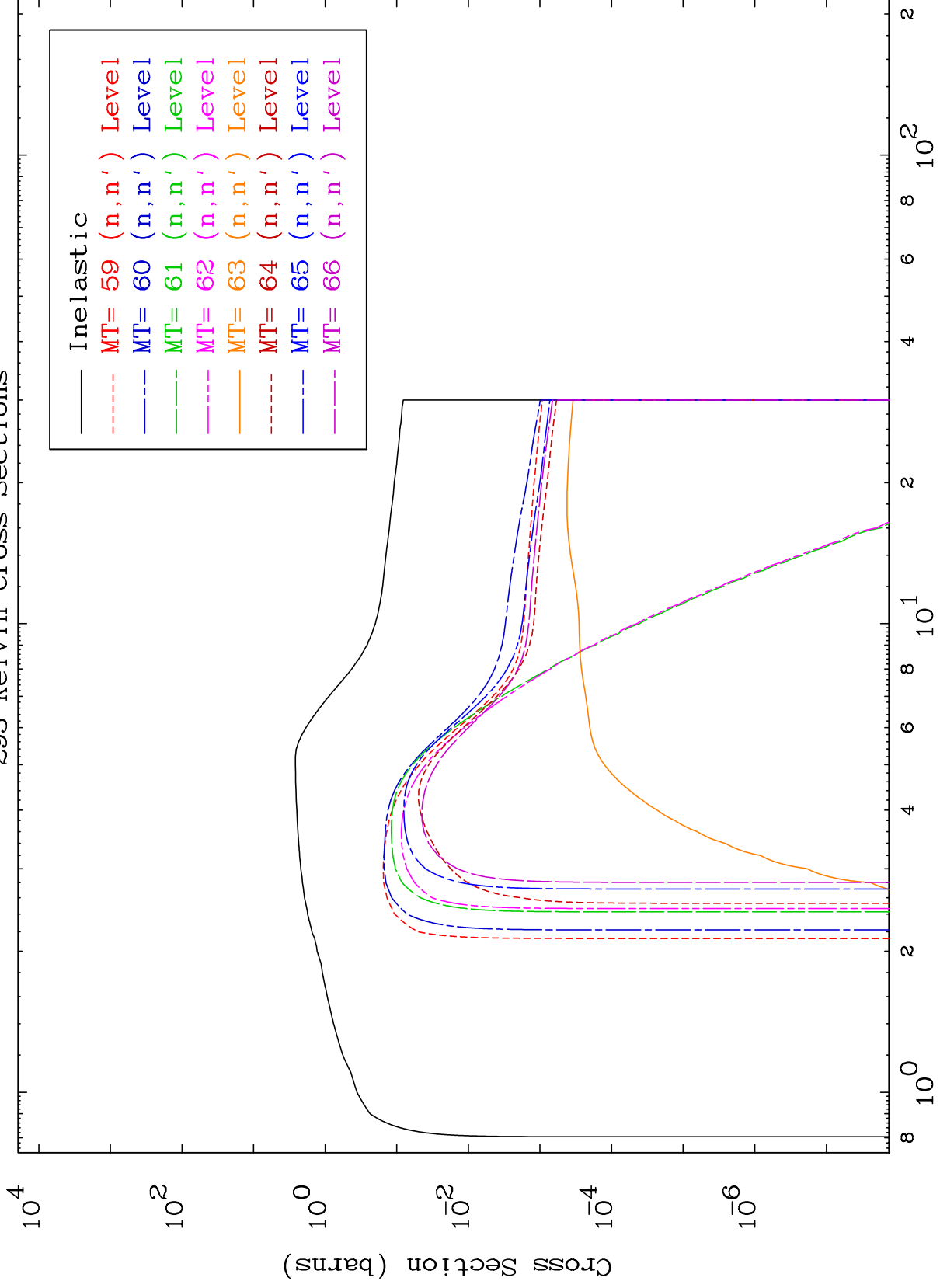
8

MAT 8243

(n,n') Levels

82-Pb-210

293 Kelvin Cross Sections



9

Incident Energy (MeV)

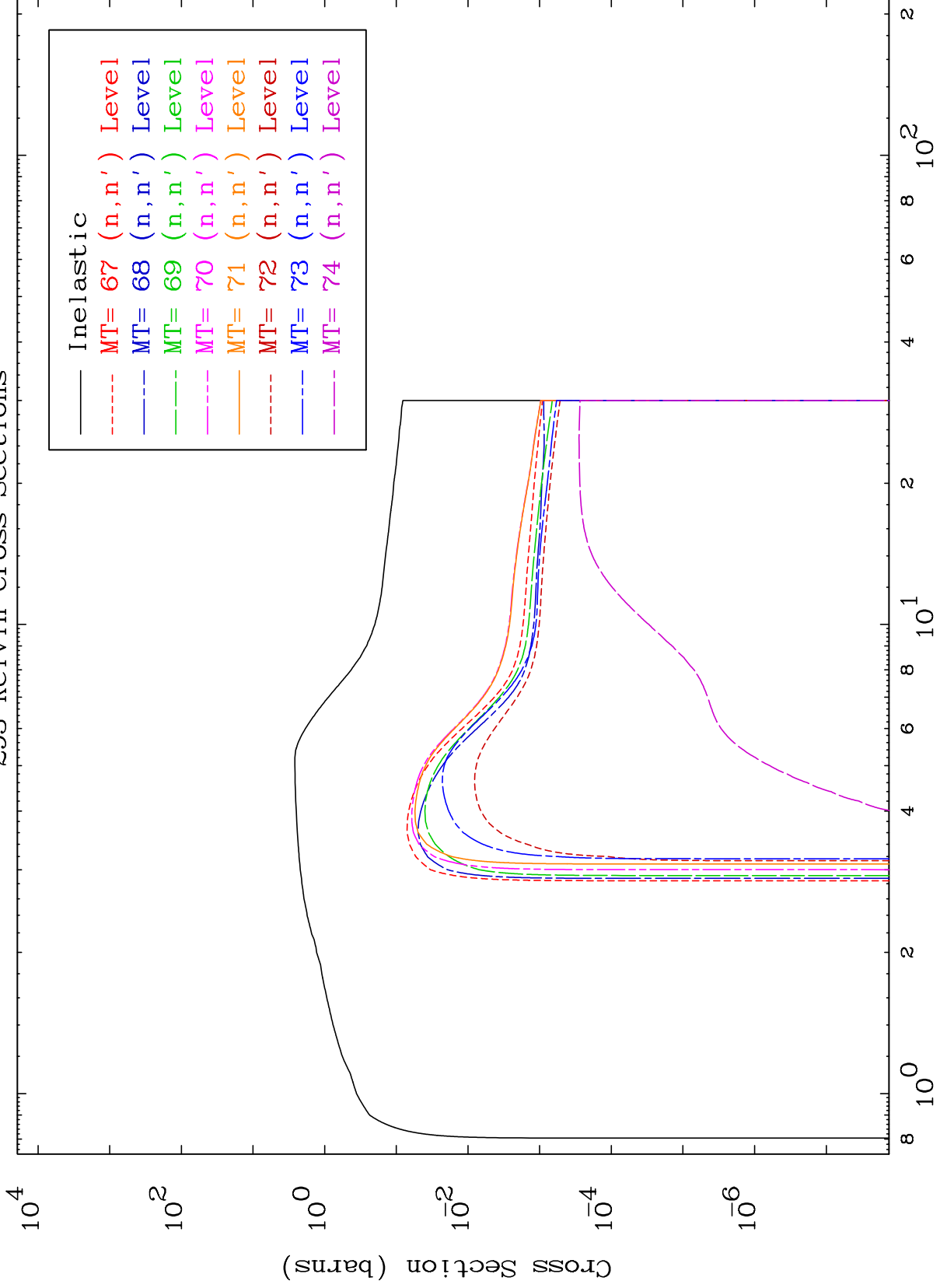
82-Pb-210

MAT 8243

(n,n') Levels

82-Pb-210

293 Kelvin Cross Sections



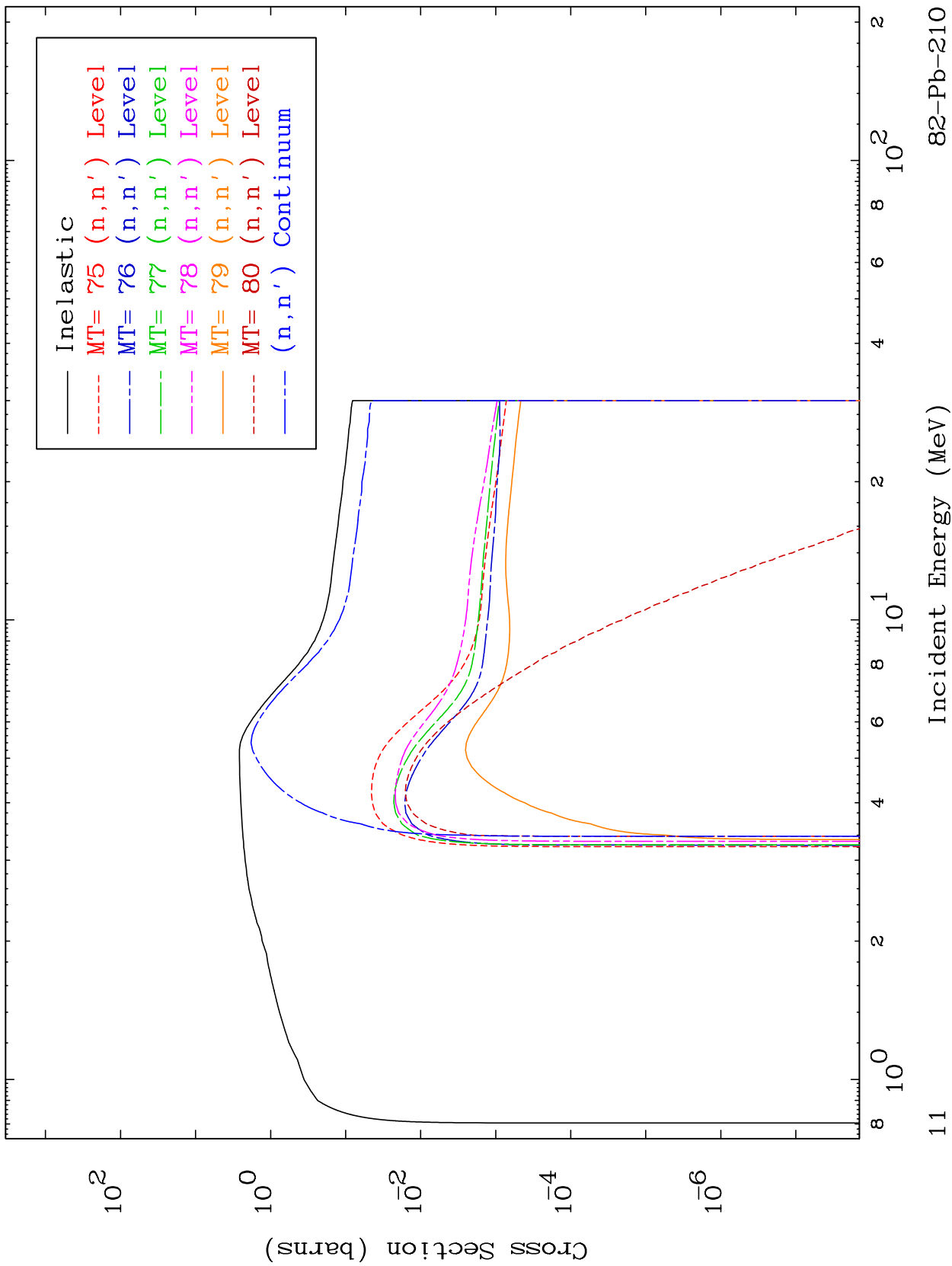
Incident Energy (MeV)

82-Pb-210

MAT 8243

(n,n') Levels  
293 Kelvin Cross Sections

82-Pb-210



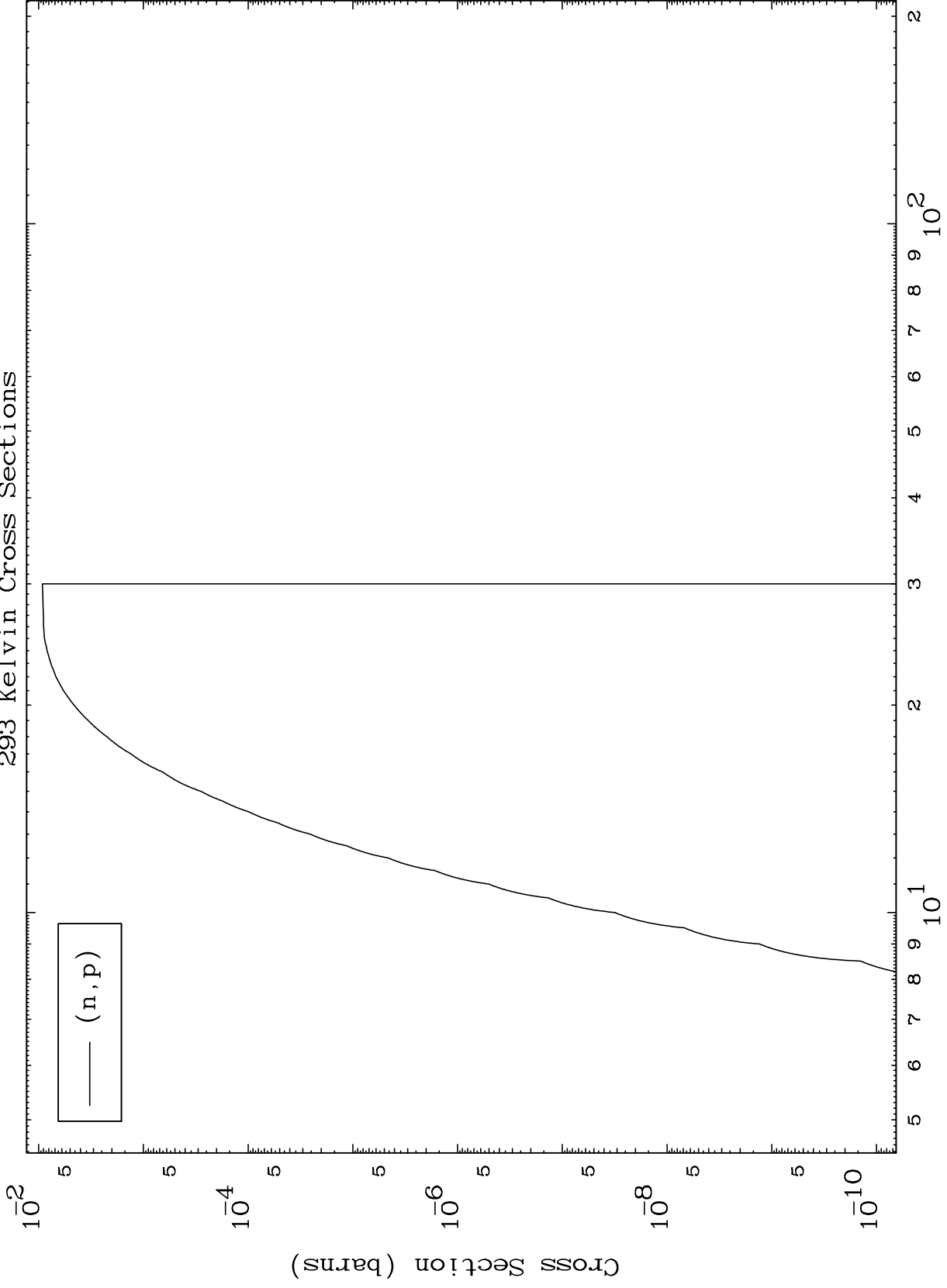
11

82-Pb-210

MAT 8243

(n,p) Levels  
293 Kelvin Cross Sections

82-Pb-210



12

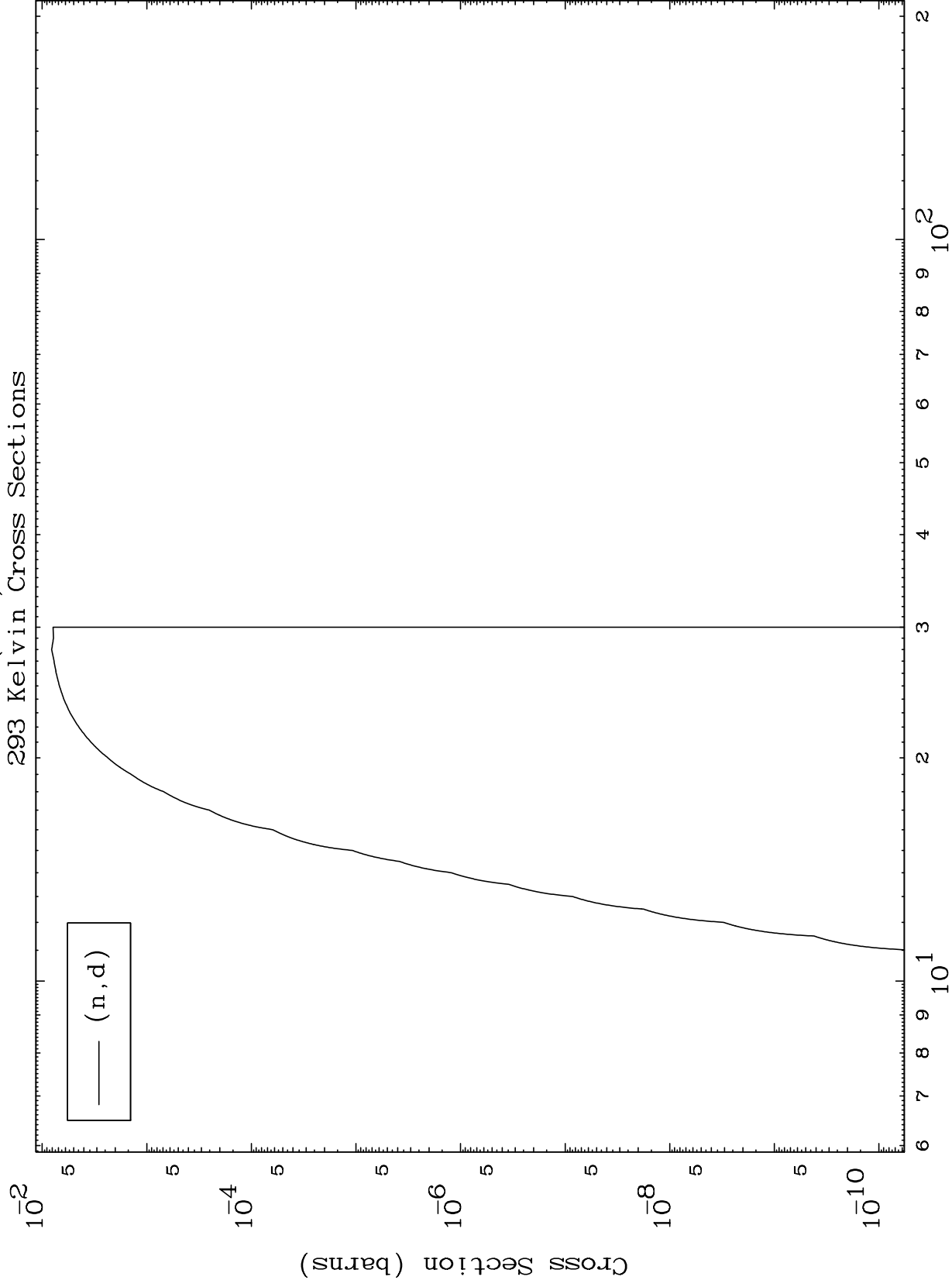
Incident Energy (MeV)

82-Pb-210

MAT 8243

(n,d) Levels  
293 Kelvin Cross Sections

82-Pb-210



13

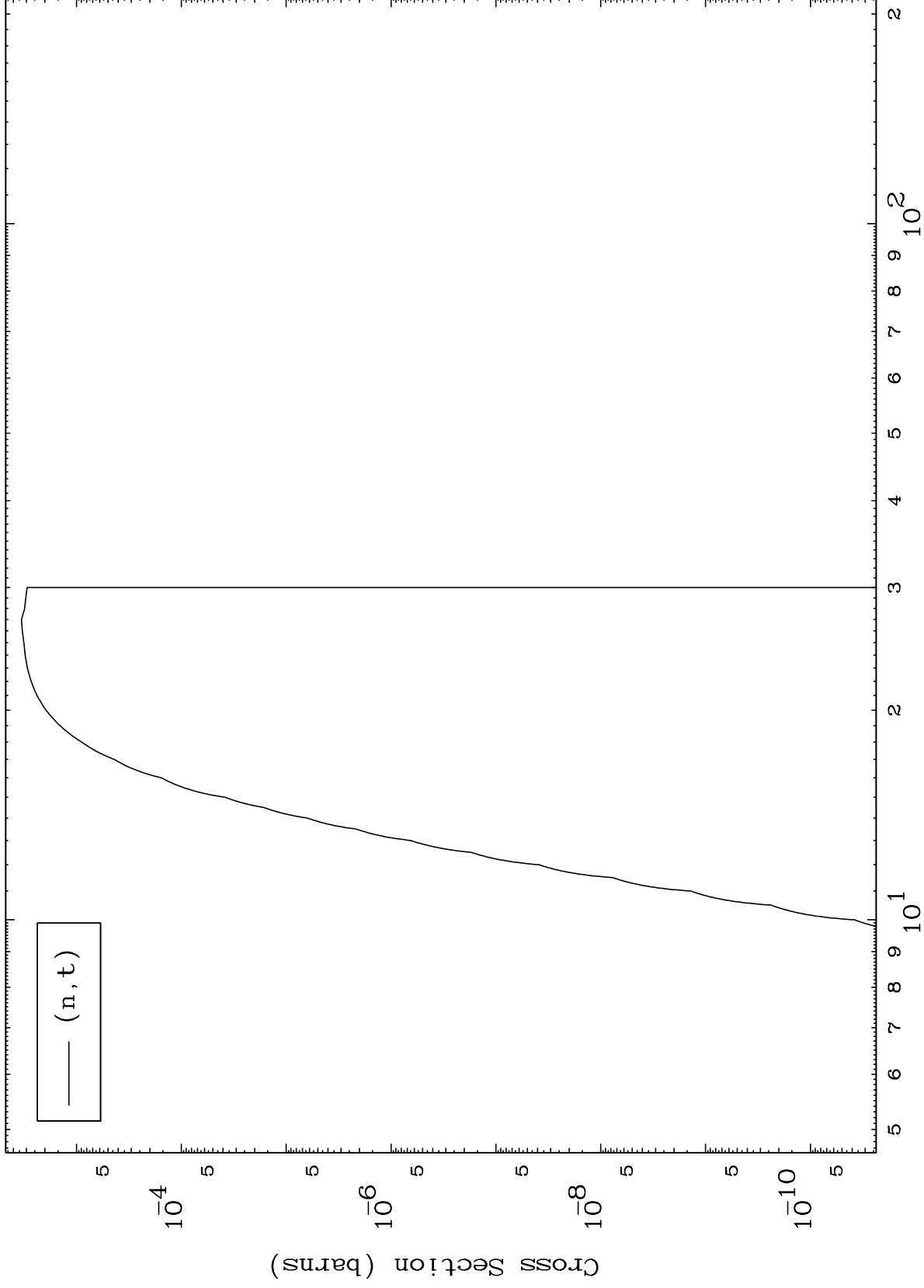
Incident Energy (MeV)

82-Pb-210

MAT 8243

(n,t) Levels  
293 Kelvin Cross Sections

82-Pb-210



14

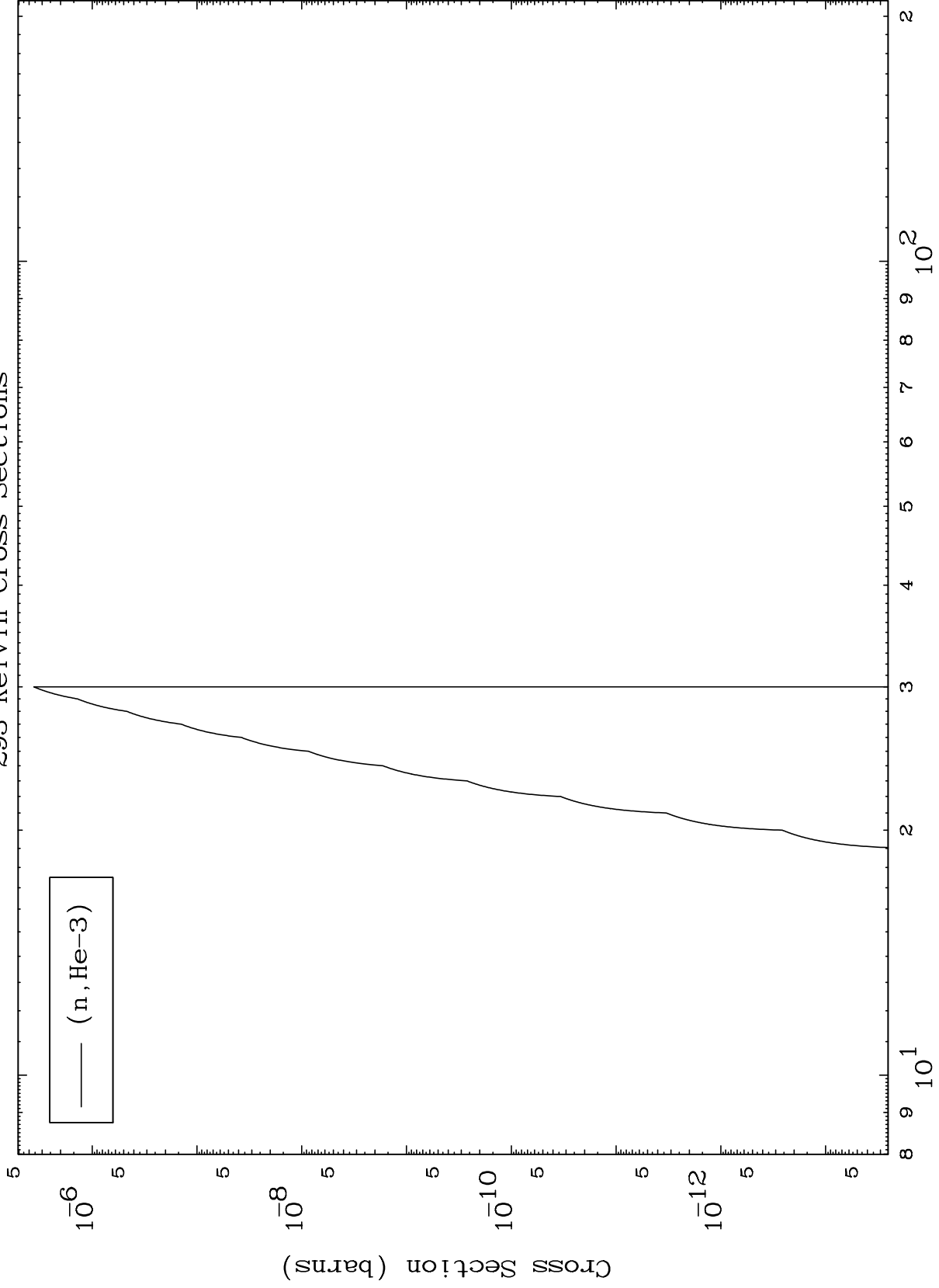
Incident Energy (MeV)

82-Pb-210

MAT 8243

(n,He3) Levels  
293 Kelvin Cross Sections

82-Pb-210



15

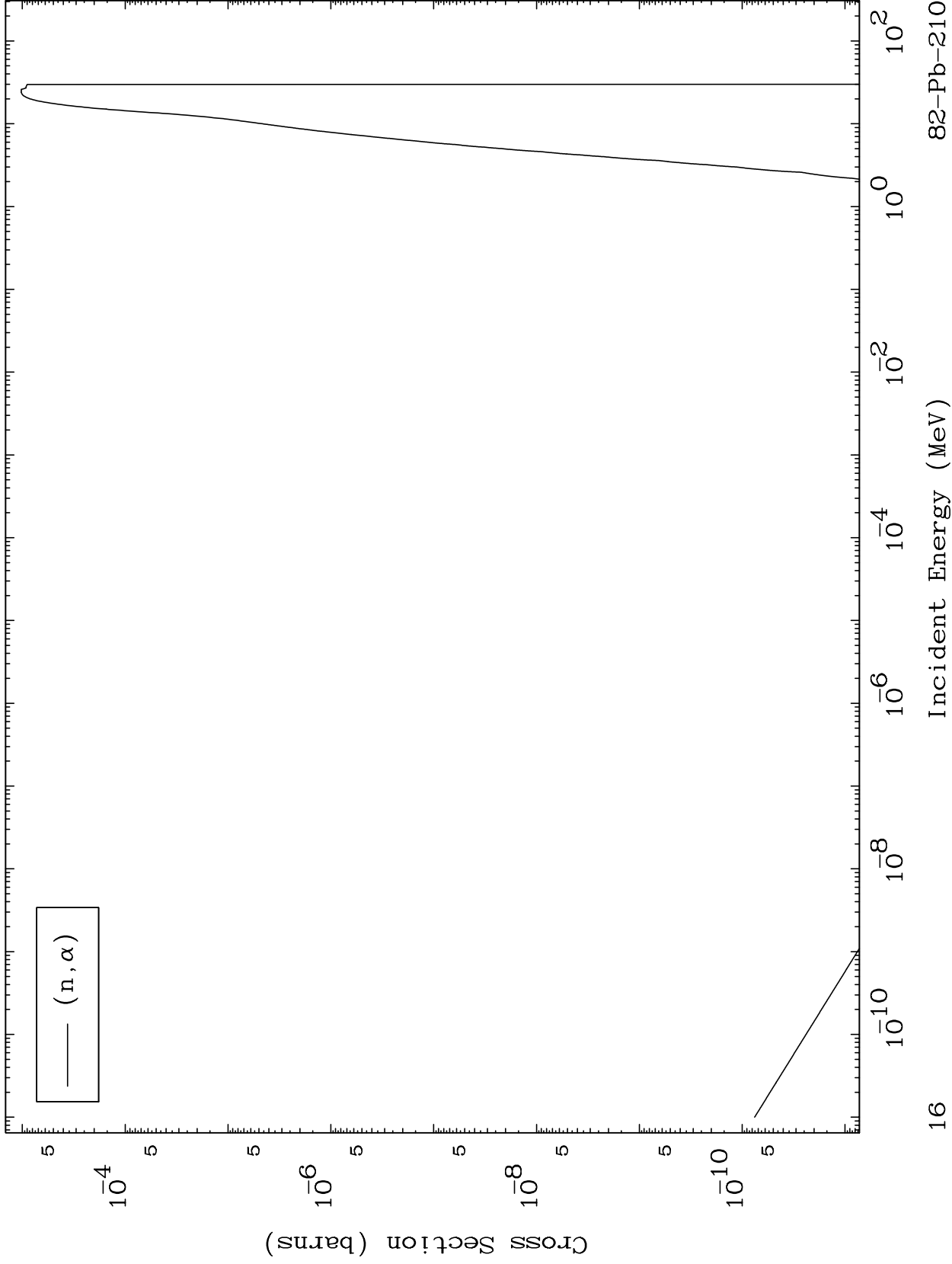
Incident Energy (MeV)

82-Pb-210

MAT 8243

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

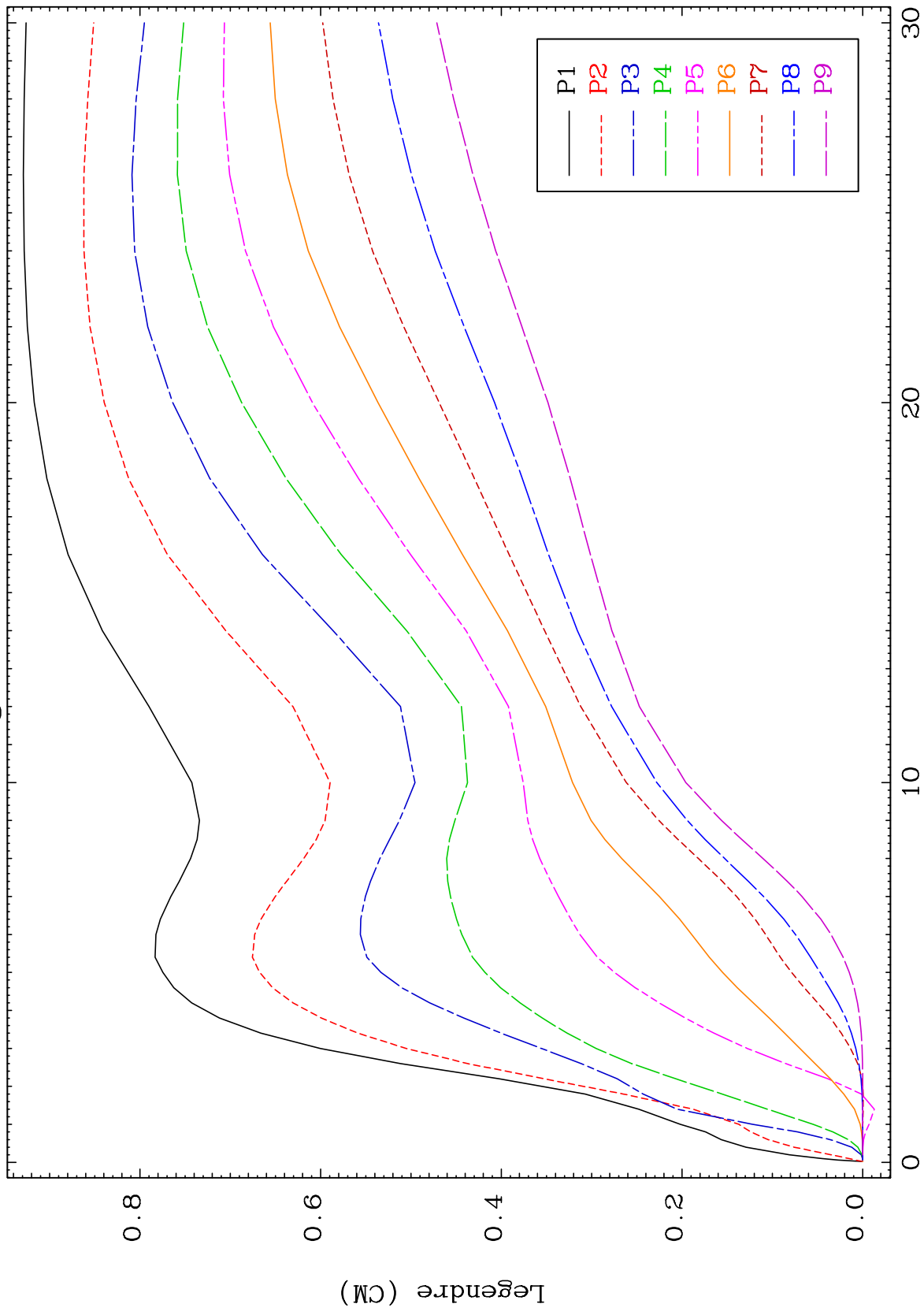
82-Pb-210



MAT 8243

Elastic Legendre Coefficients

82-Pb-210



17

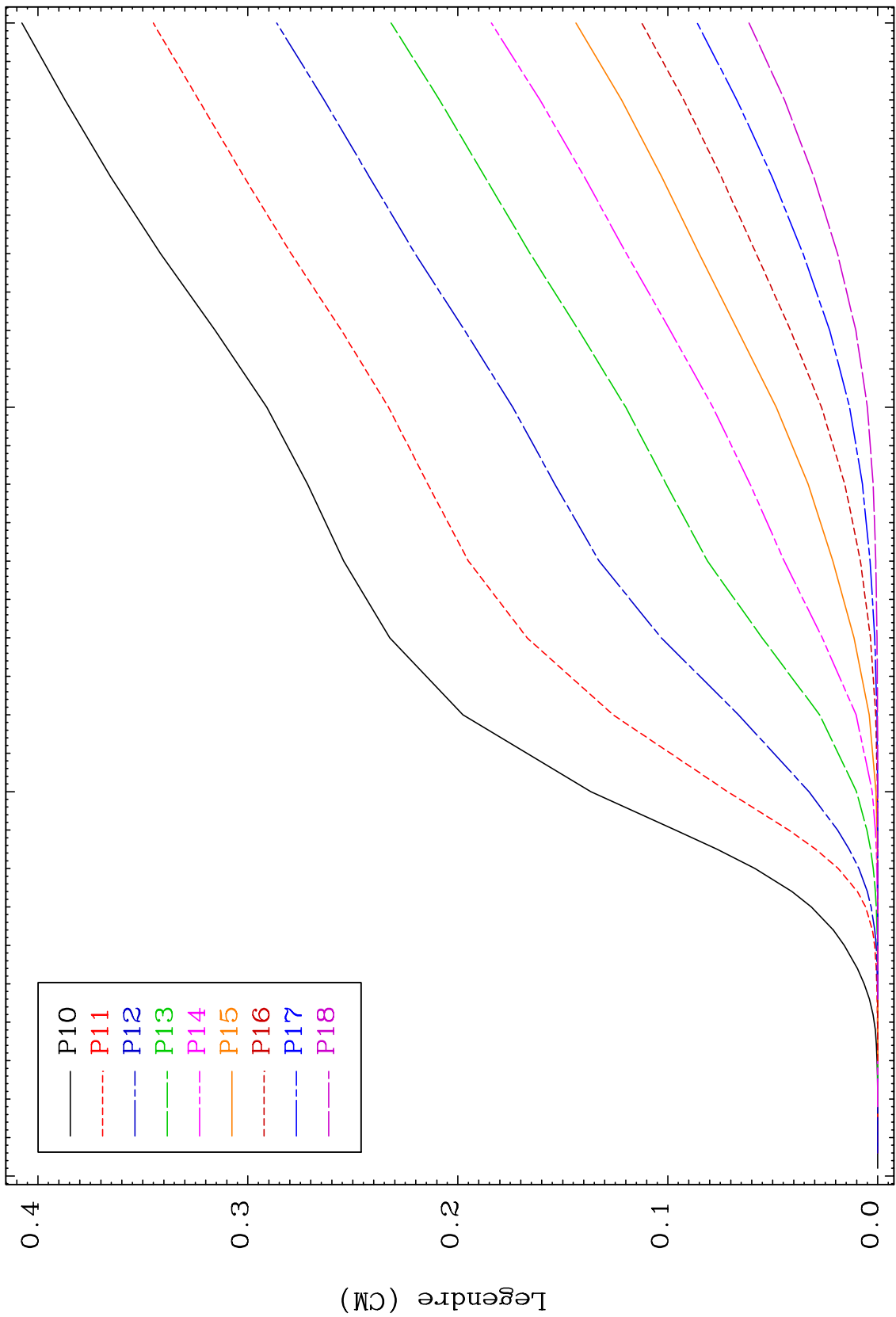
Incident Energy (MeV)

82-Pb-210

MAT 8243

Elastic Legendre Coefficients

82-Pb-210



18

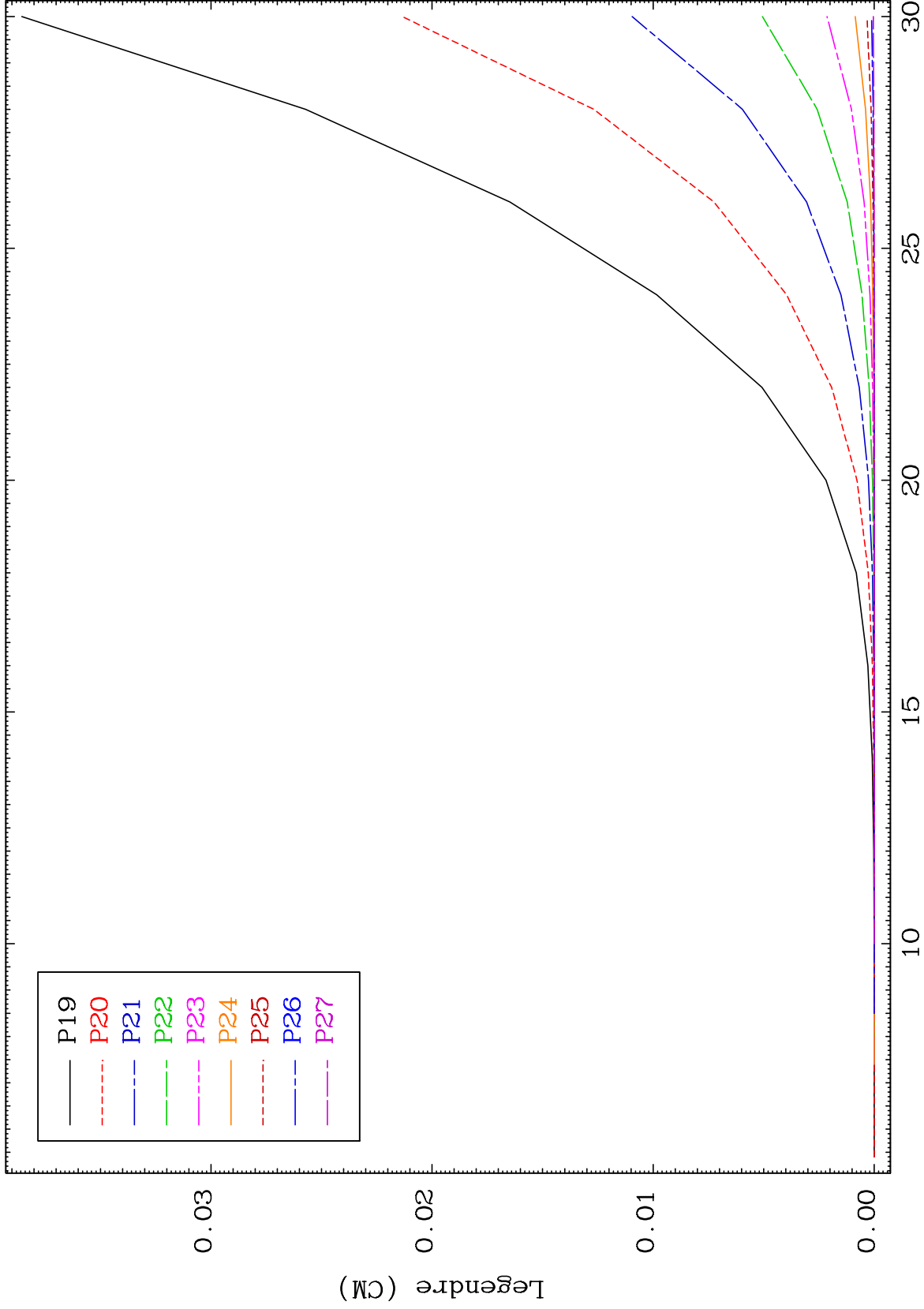
Incident Energy (MeV)

82-Pb-210

MAT 8243

Elastic Legendre Coefficients

82-Pb-210



19

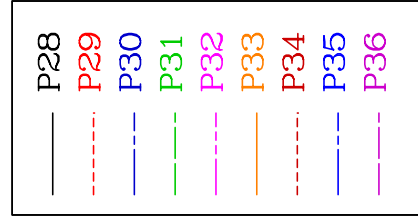
Incident Energy (MeV)

82-Pb-210

MAT 8243

Elastic  
Legendre Coefficients

82-Pb-210



$\times 10^{-55}$

Legendre (CM)

1.0

0.5

0.0

15

20

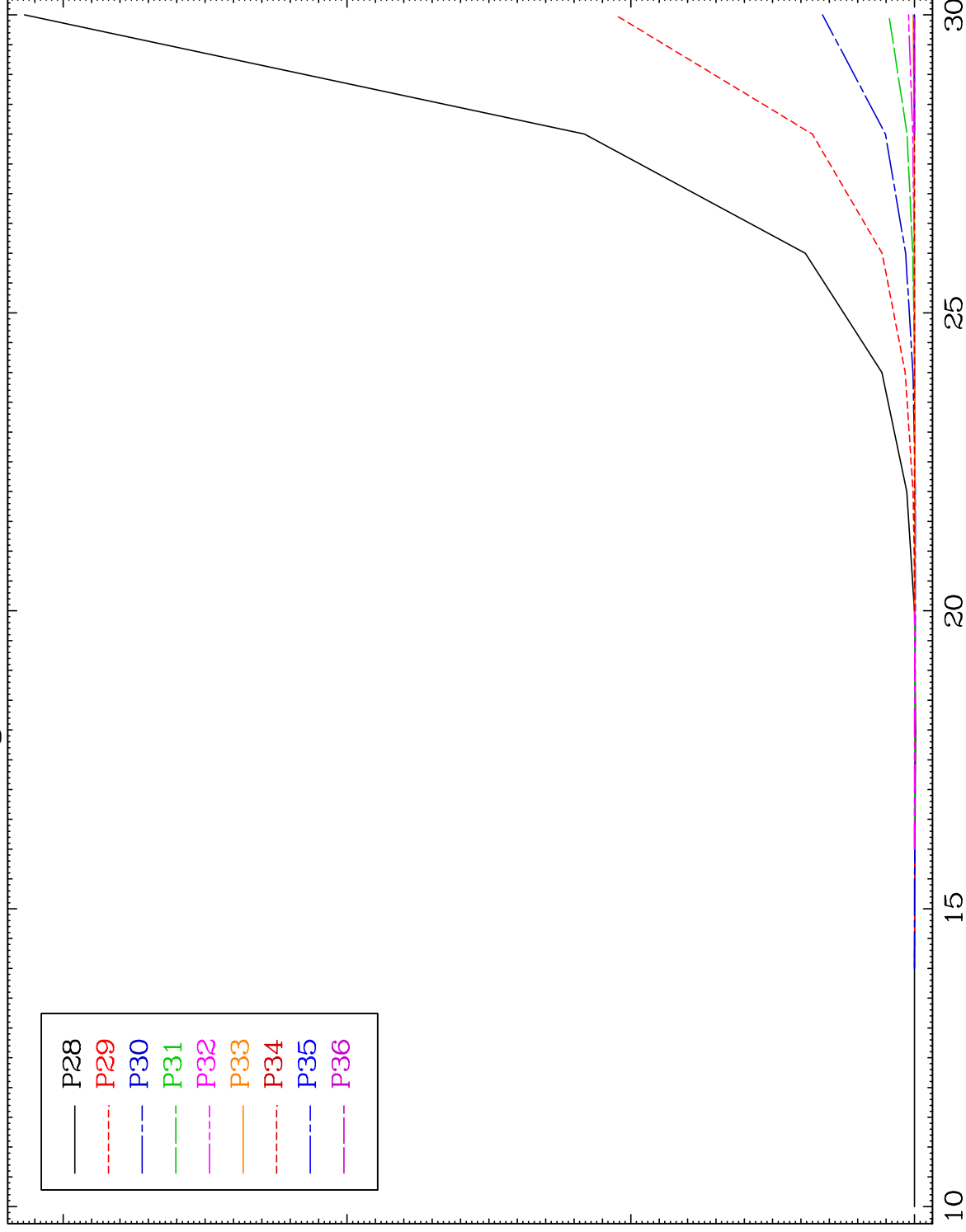
25

30

20

Incident Energy (MeV)

82-Pb-210

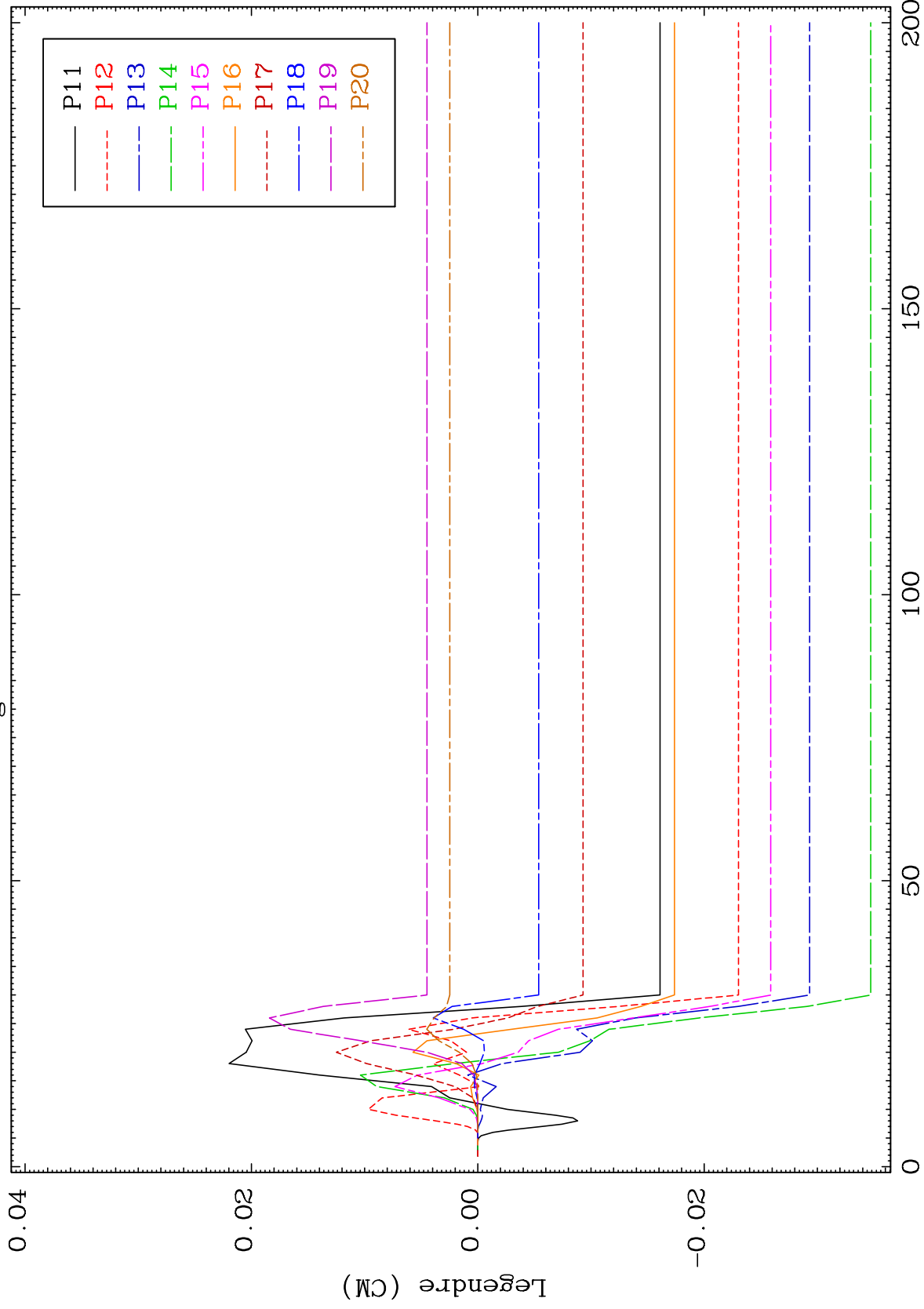




MAT 8243

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

82-Pb-210



22

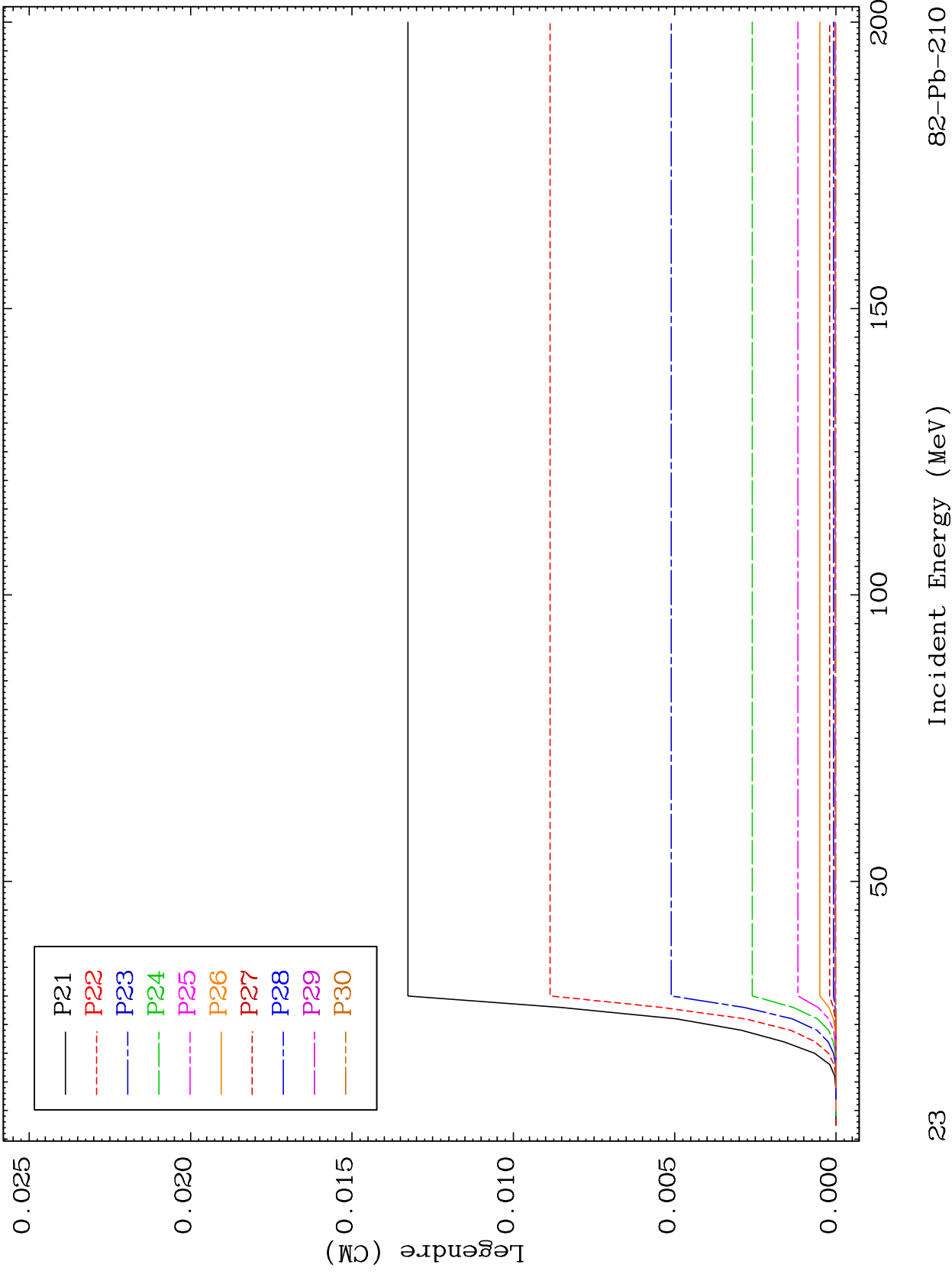
Incident Energy (MeV)

82-Pb-210

MAT 8243

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

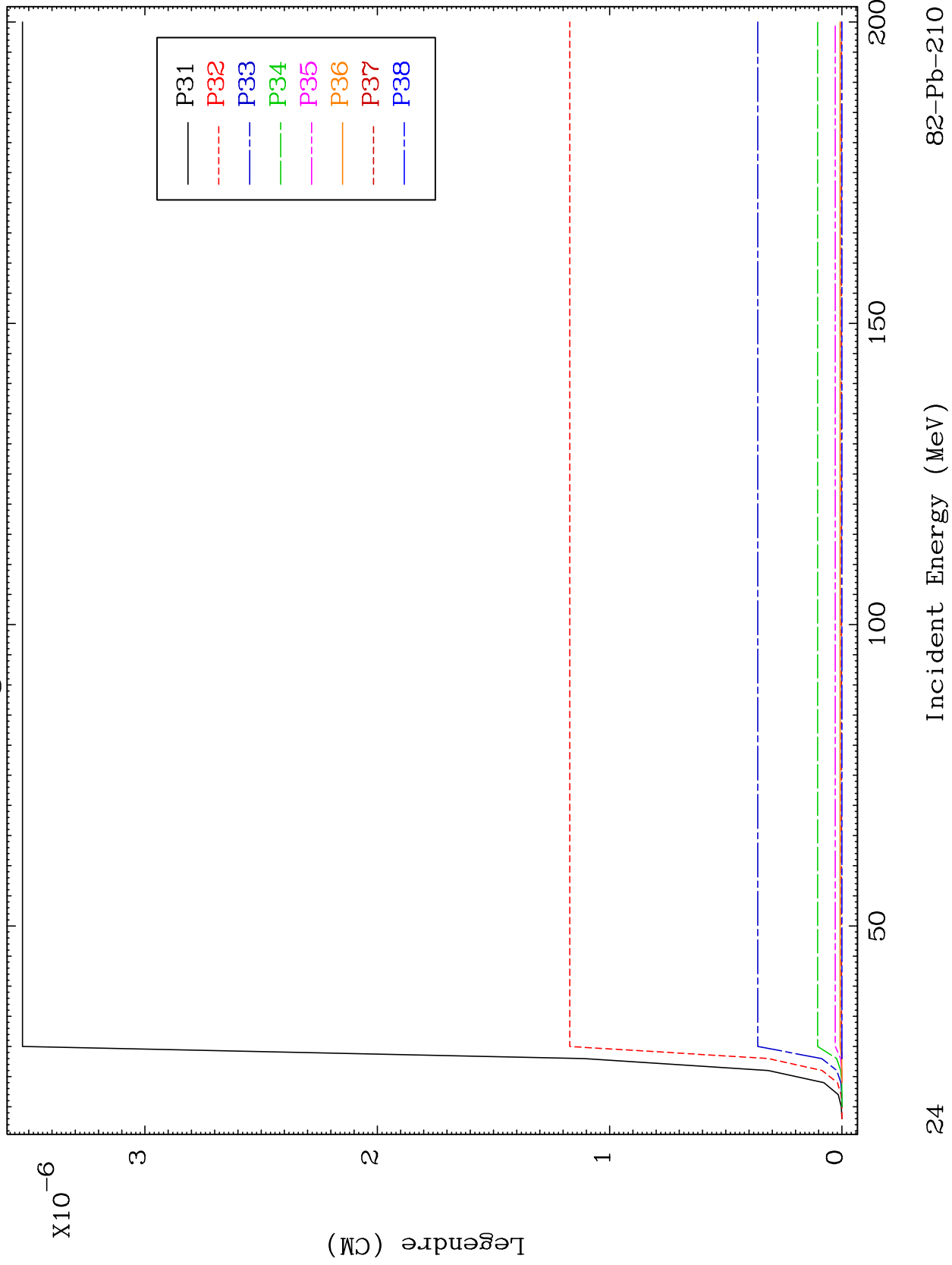
82-Pb-210

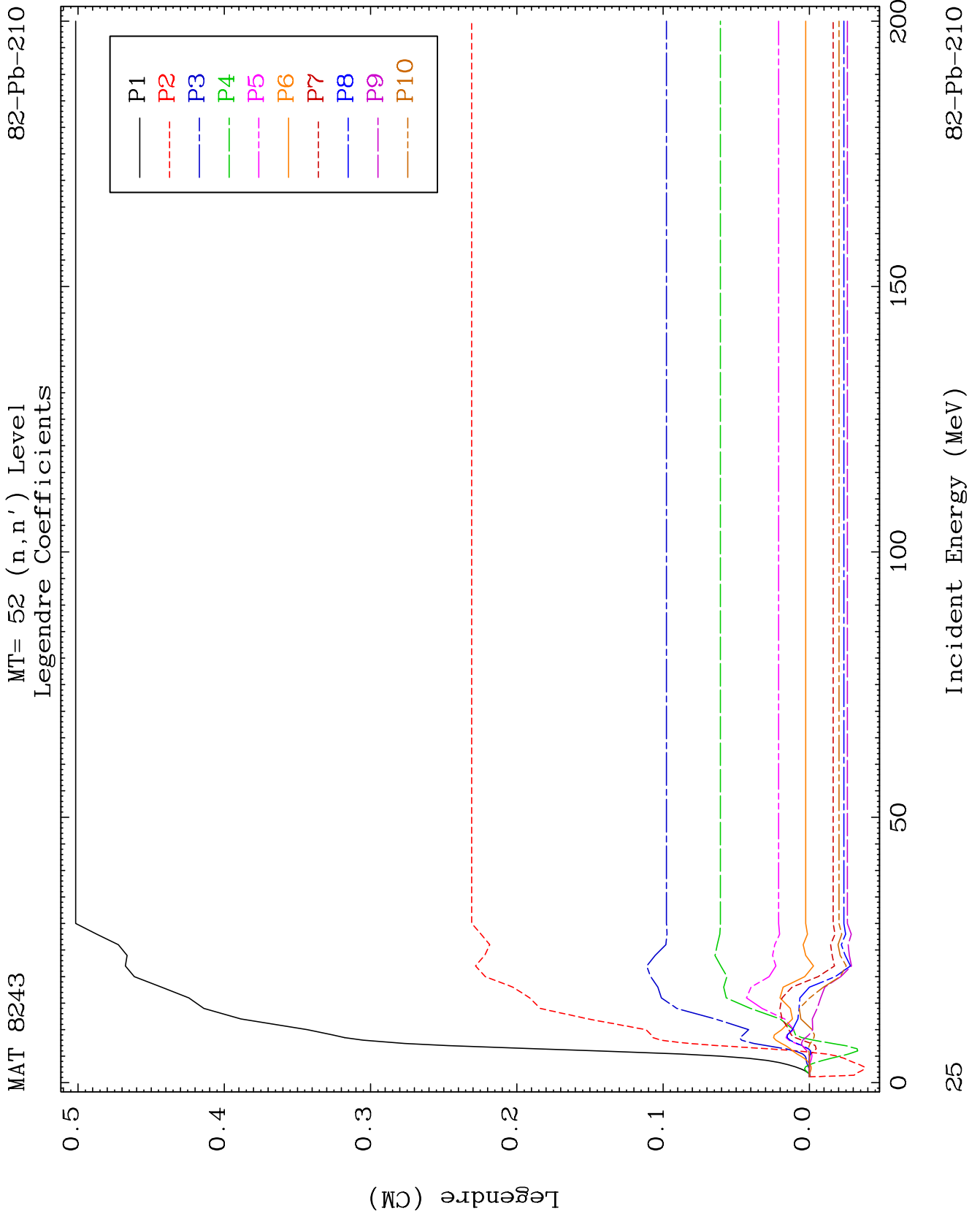


MAT 8243

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

82-Pb-210

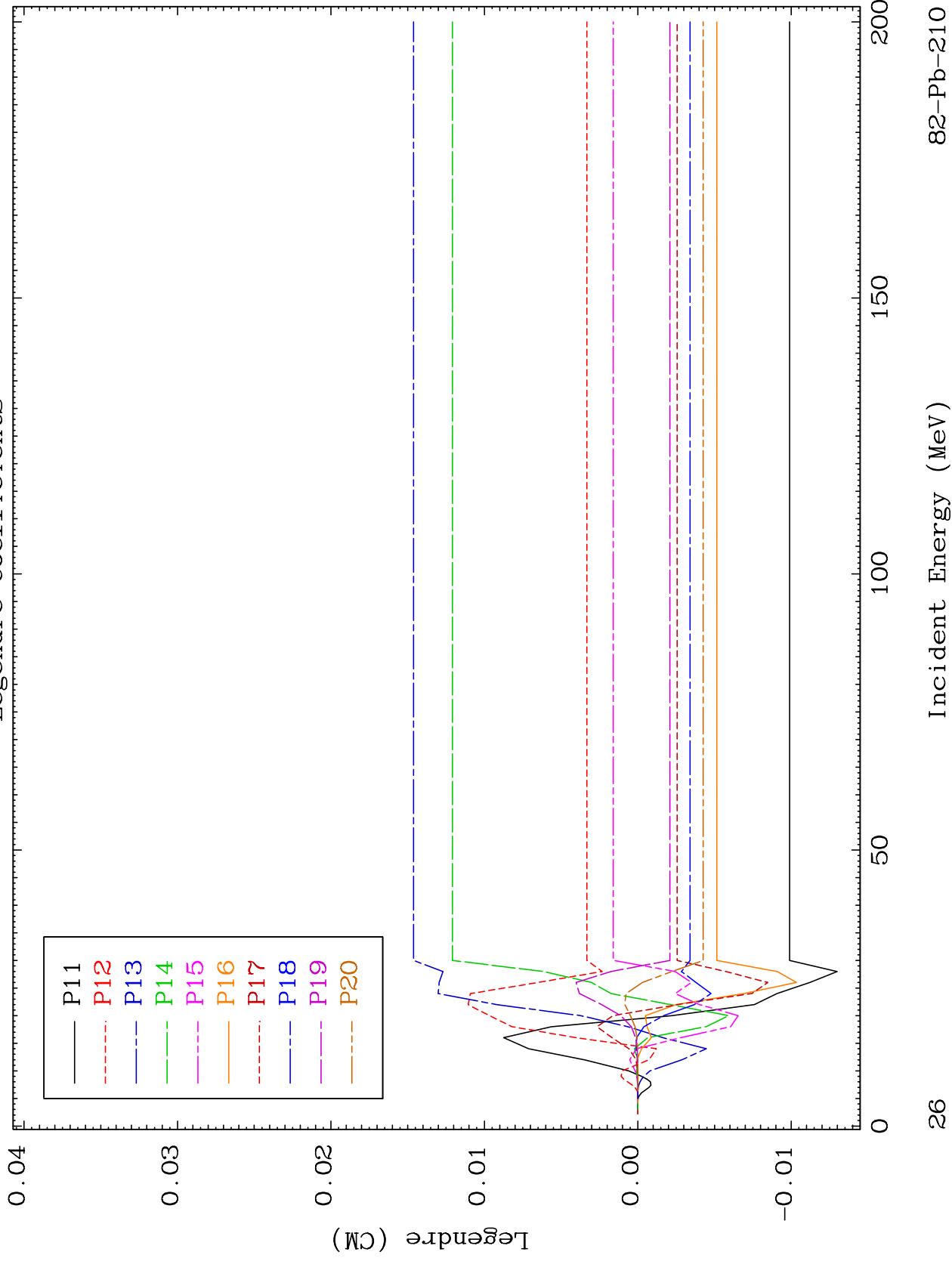




MAT 8243

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

82-Pb-210



26

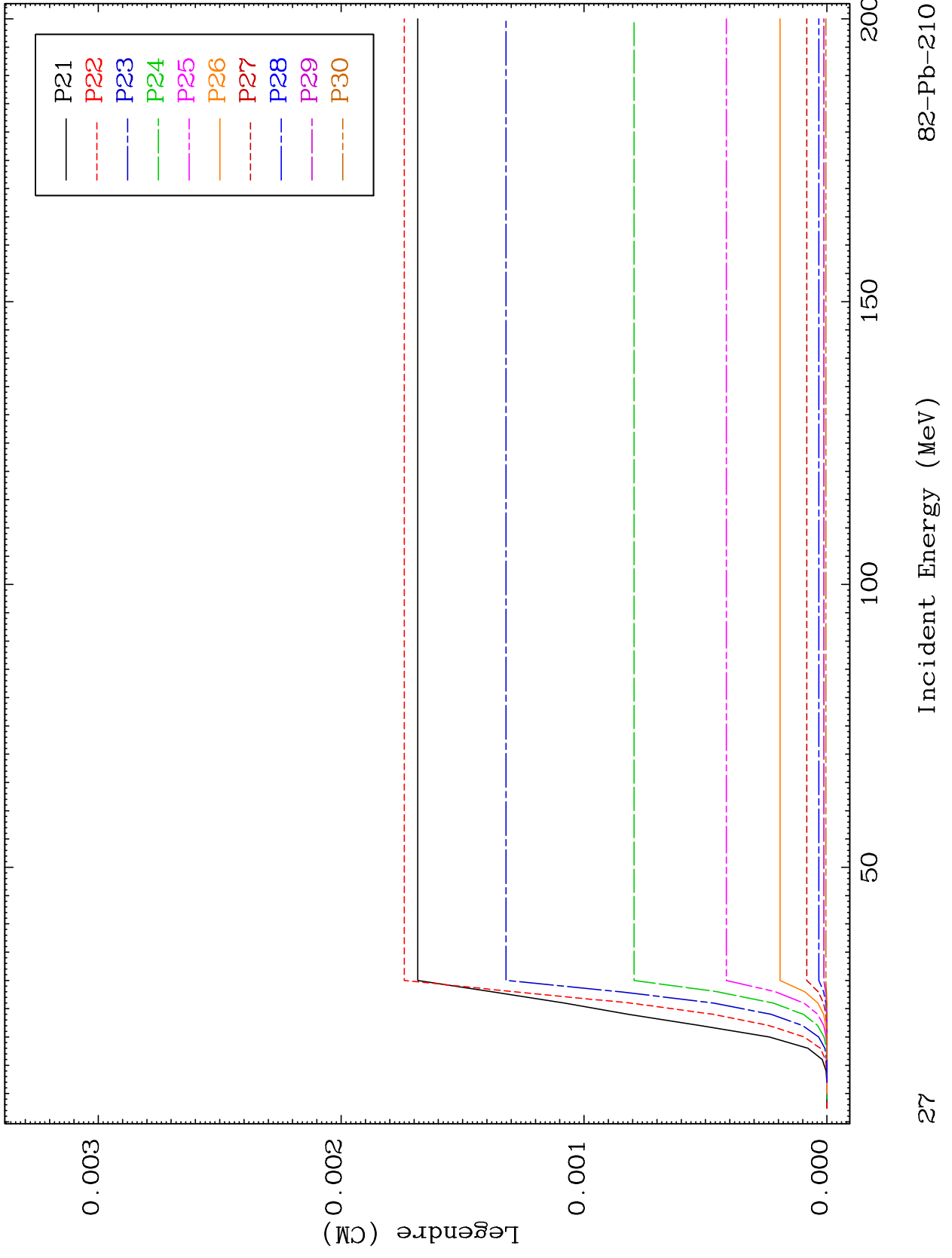
Incident Energy (MeV)

82-Pb-210

MAT 8243

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

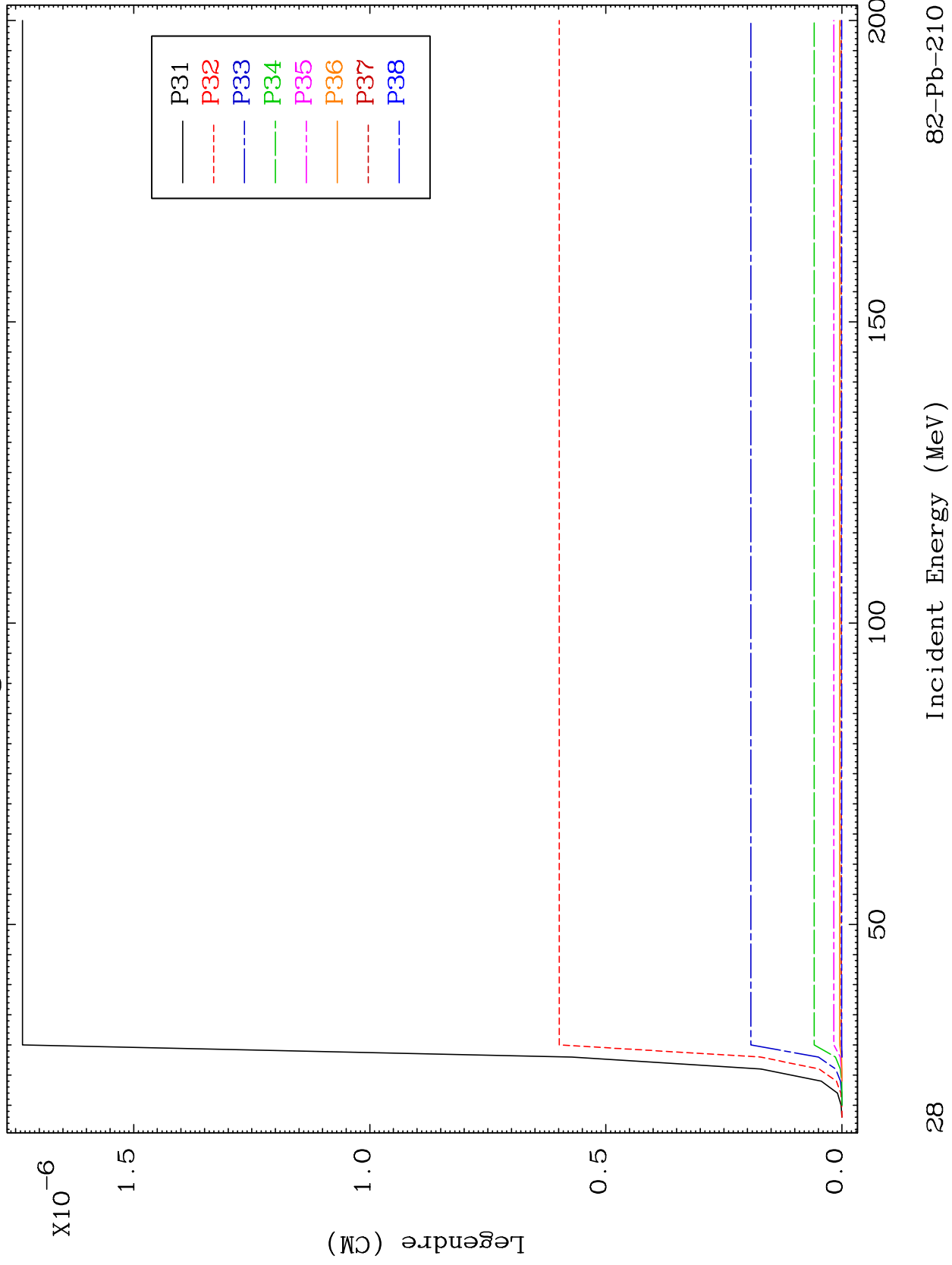
82-Pb-210



MAT 8243

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

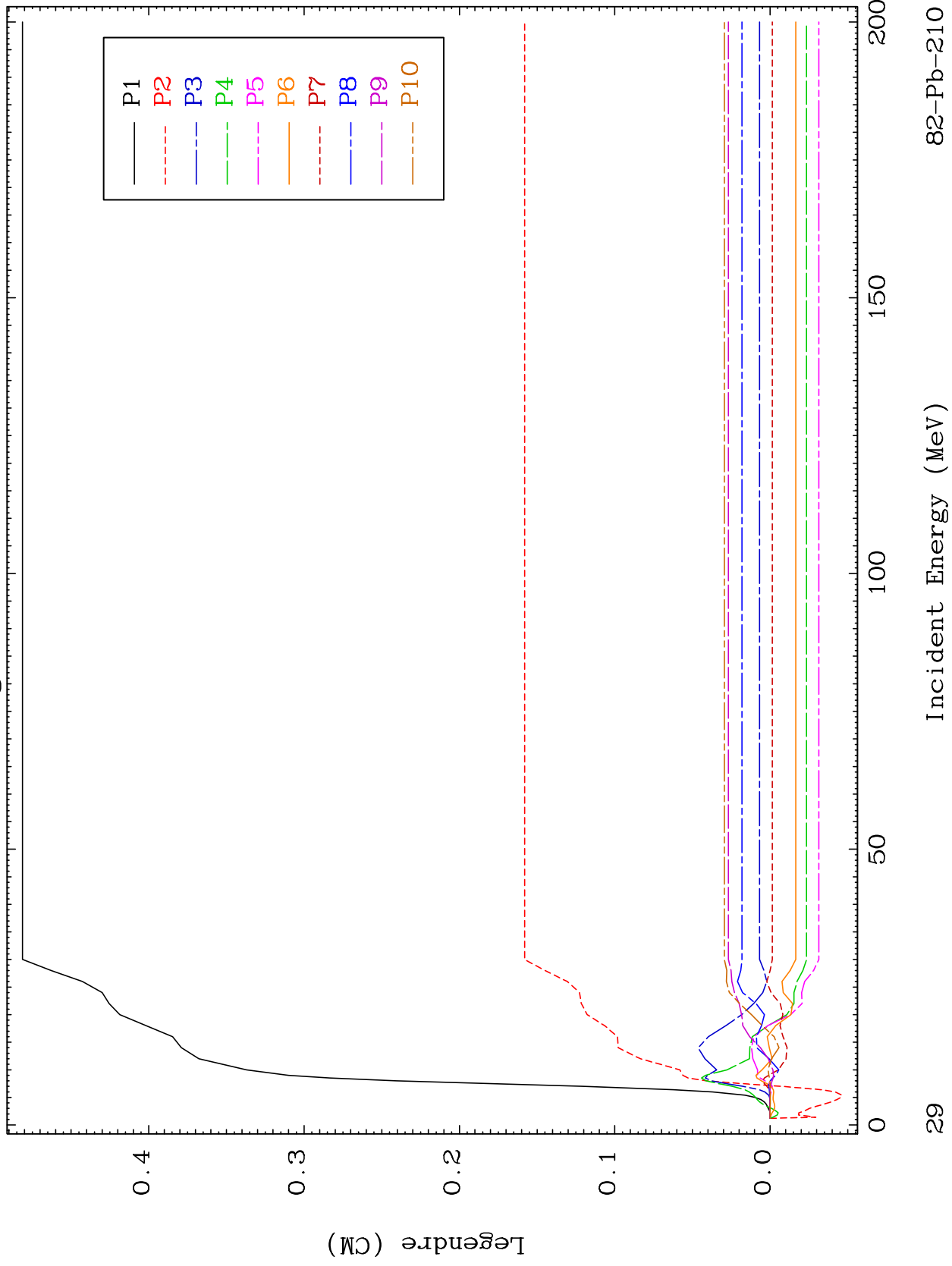
82-Pb-210



MAT 8243

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

82-Pb-210



29

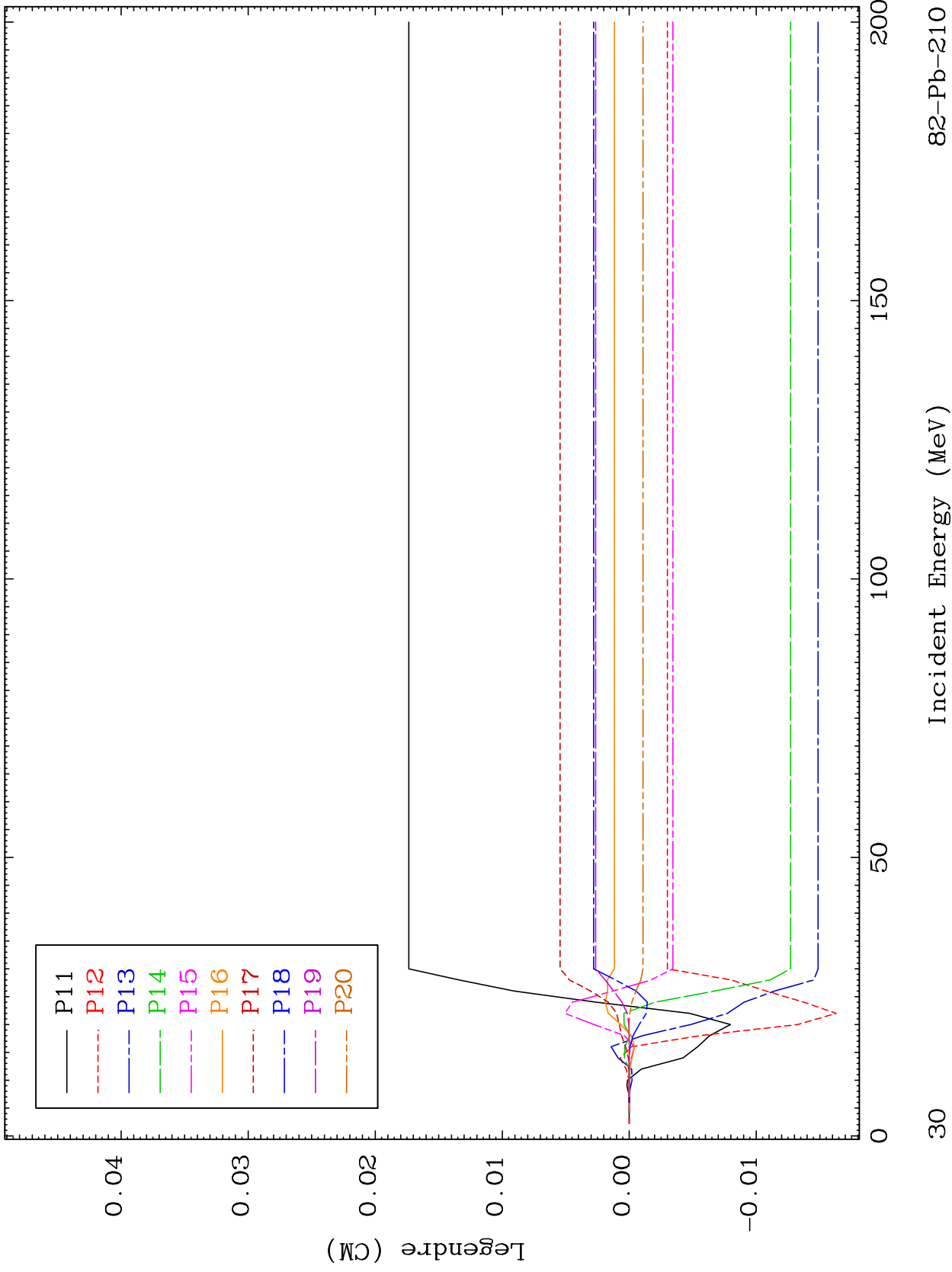
Incident Energy (MeV)

82-Pb-210

MAT 8243

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

82-Pb-210



82-Pb-210

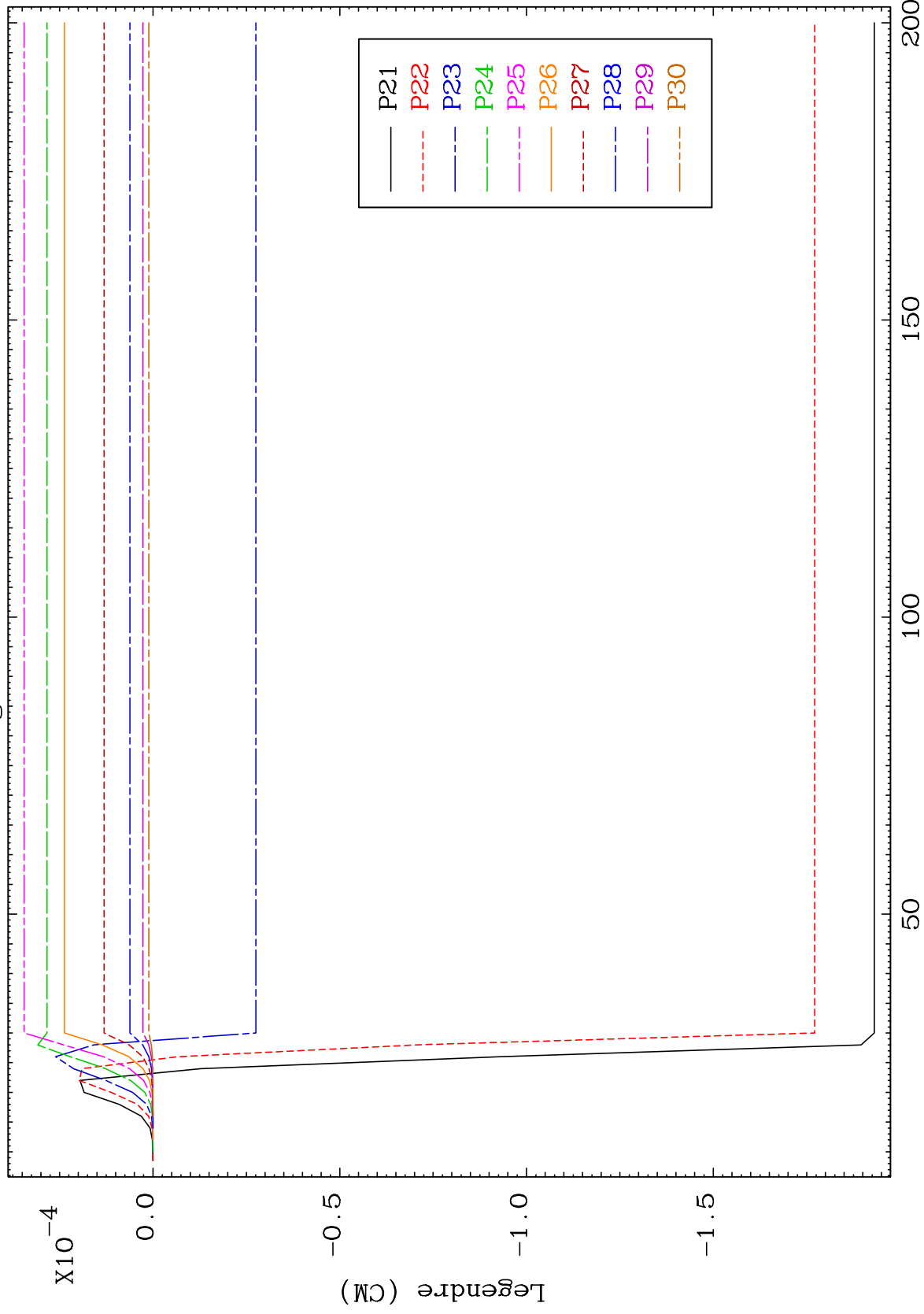
Incident Energy (MeV)

30

MAT 8243

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

82-Pb-210



31

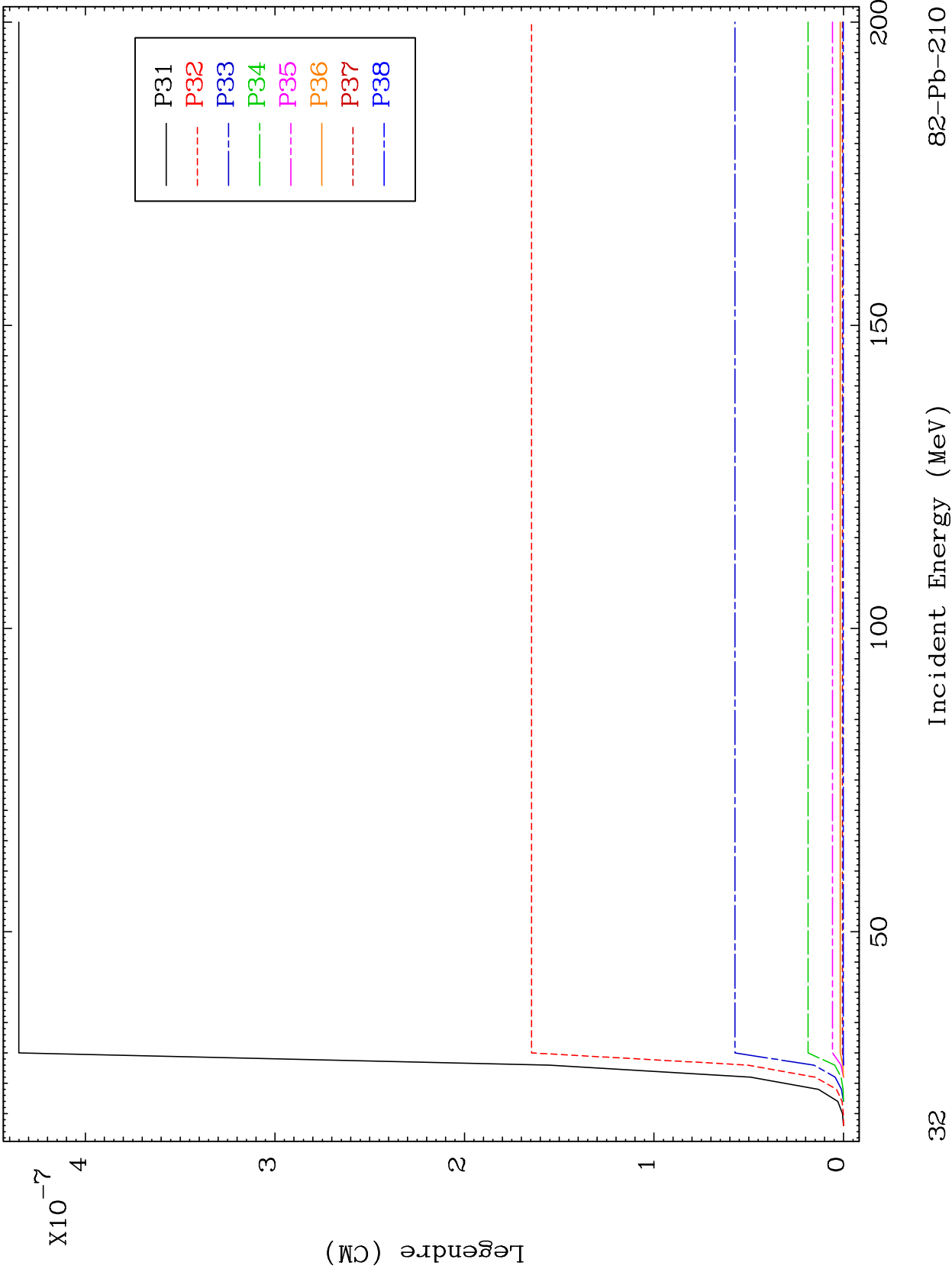
Incident Energy (MeV)

82-Pb-210

MAT 8243

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

82-Pb-210



32

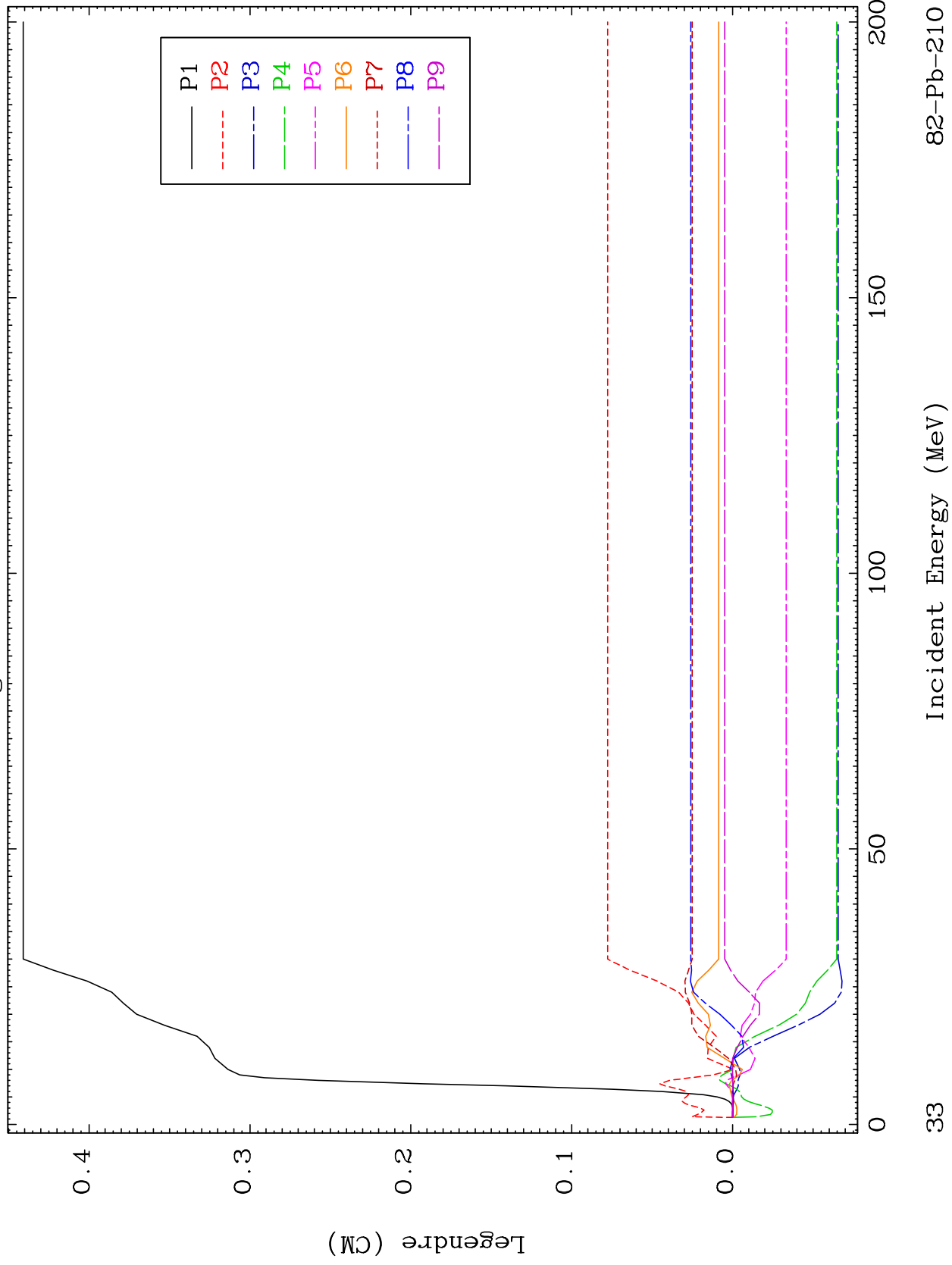
Incident Energy (MeV)

82-Pb-210

MAT 8243

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

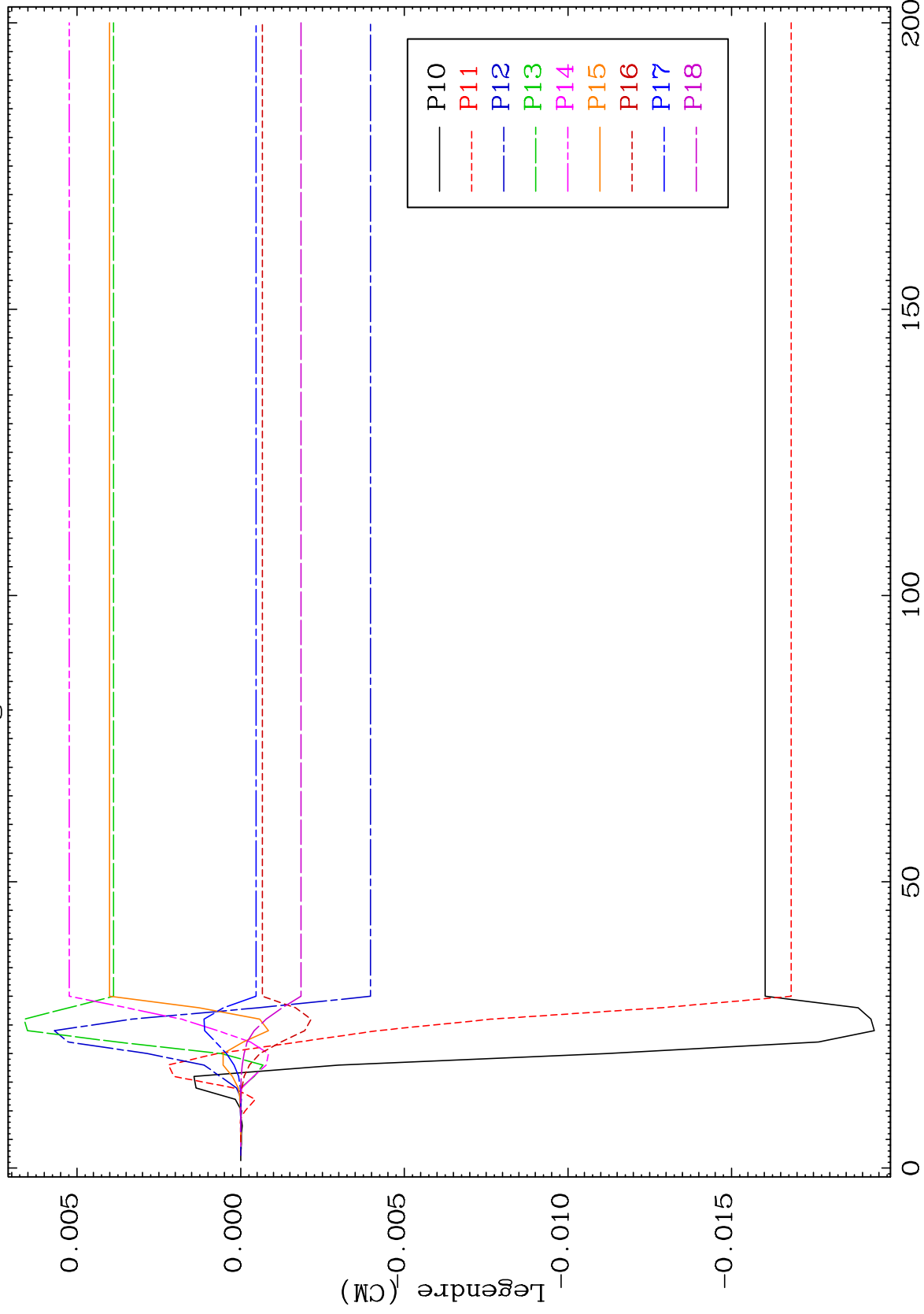
82-Pb-210



MAT 8243

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

82-Pb-210



34

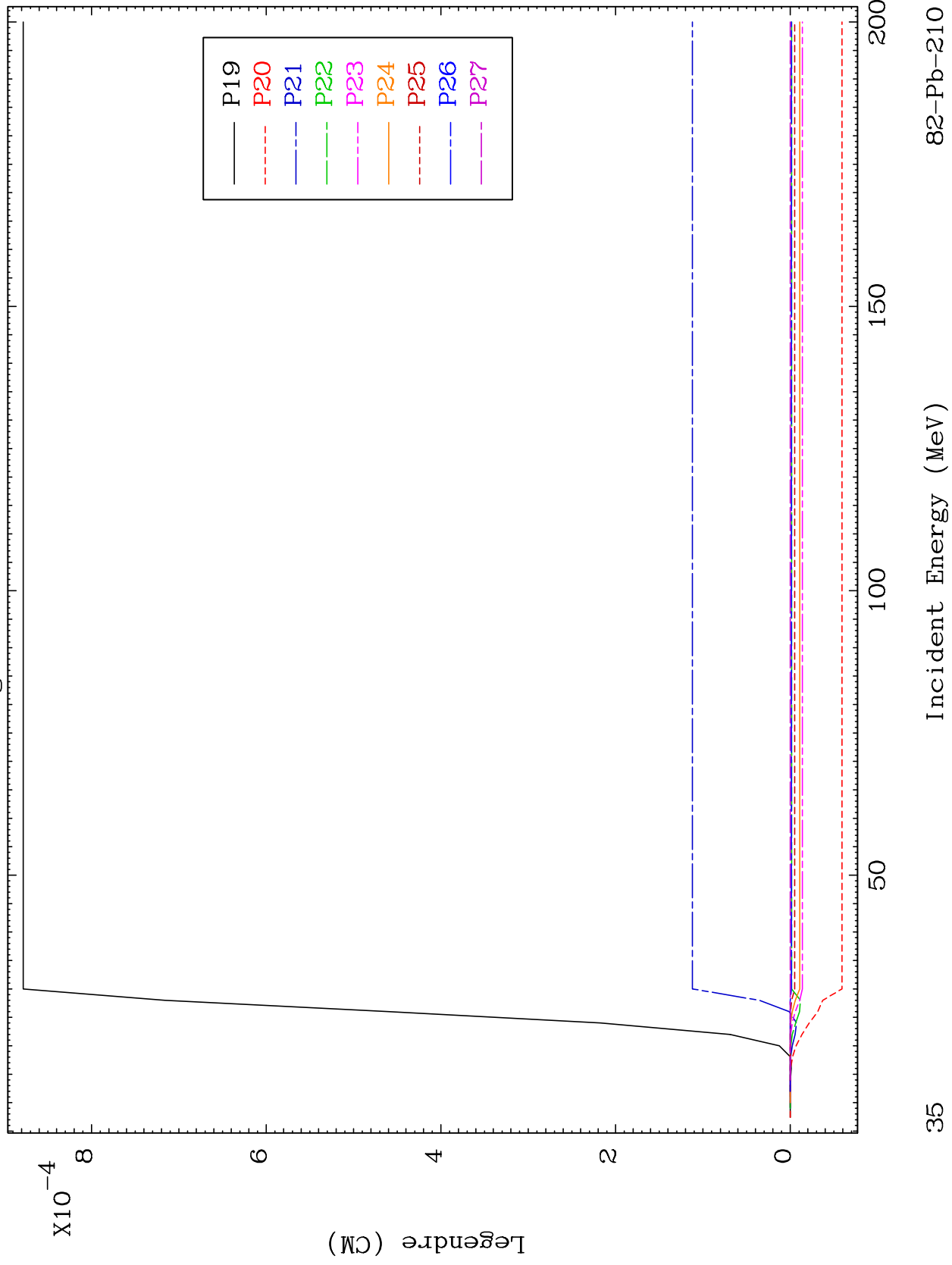
Incident Energy (MeV)

82-Pb-210

MAT 8243

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

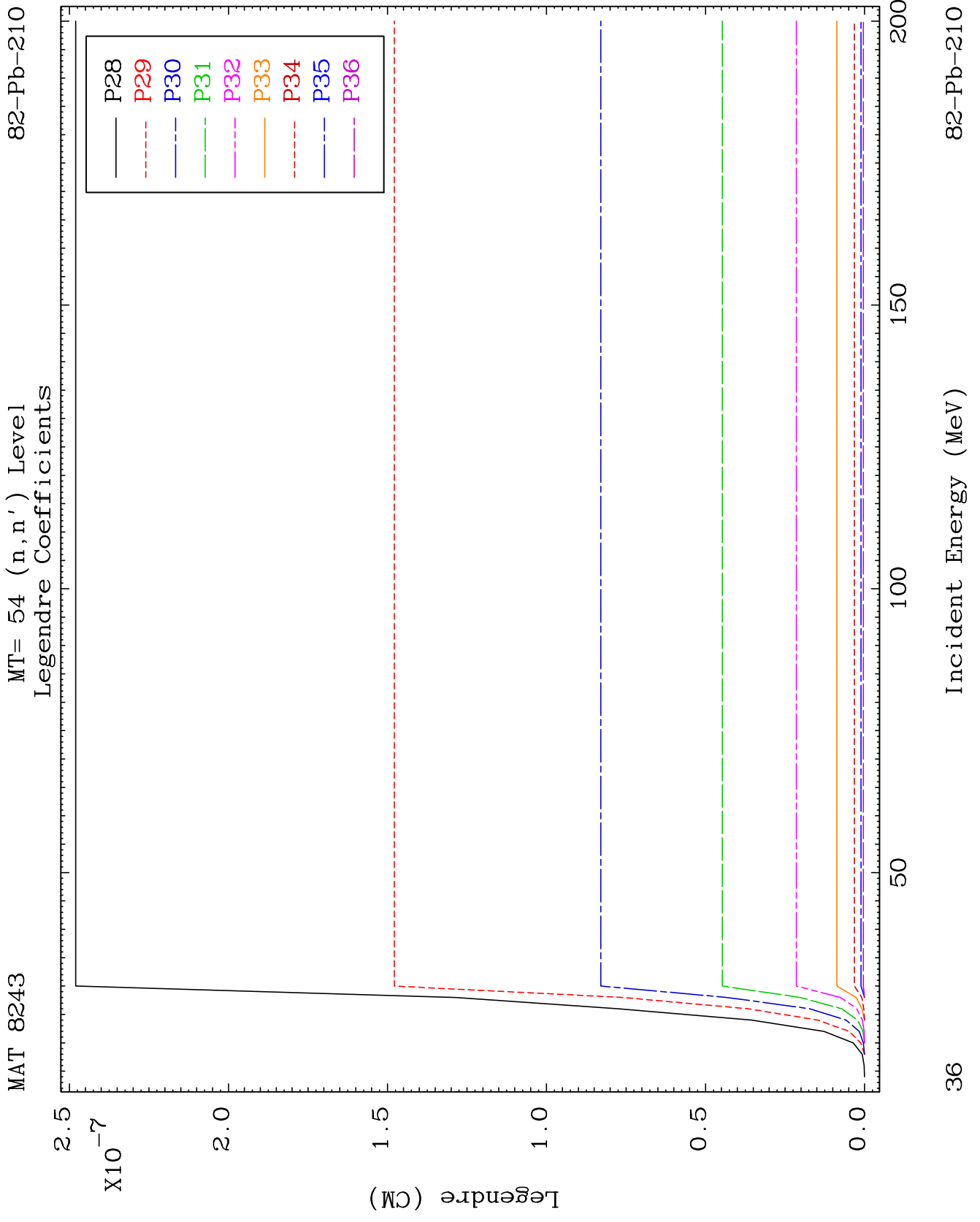
82-Pb-210



35

Incident Energy (MeV)

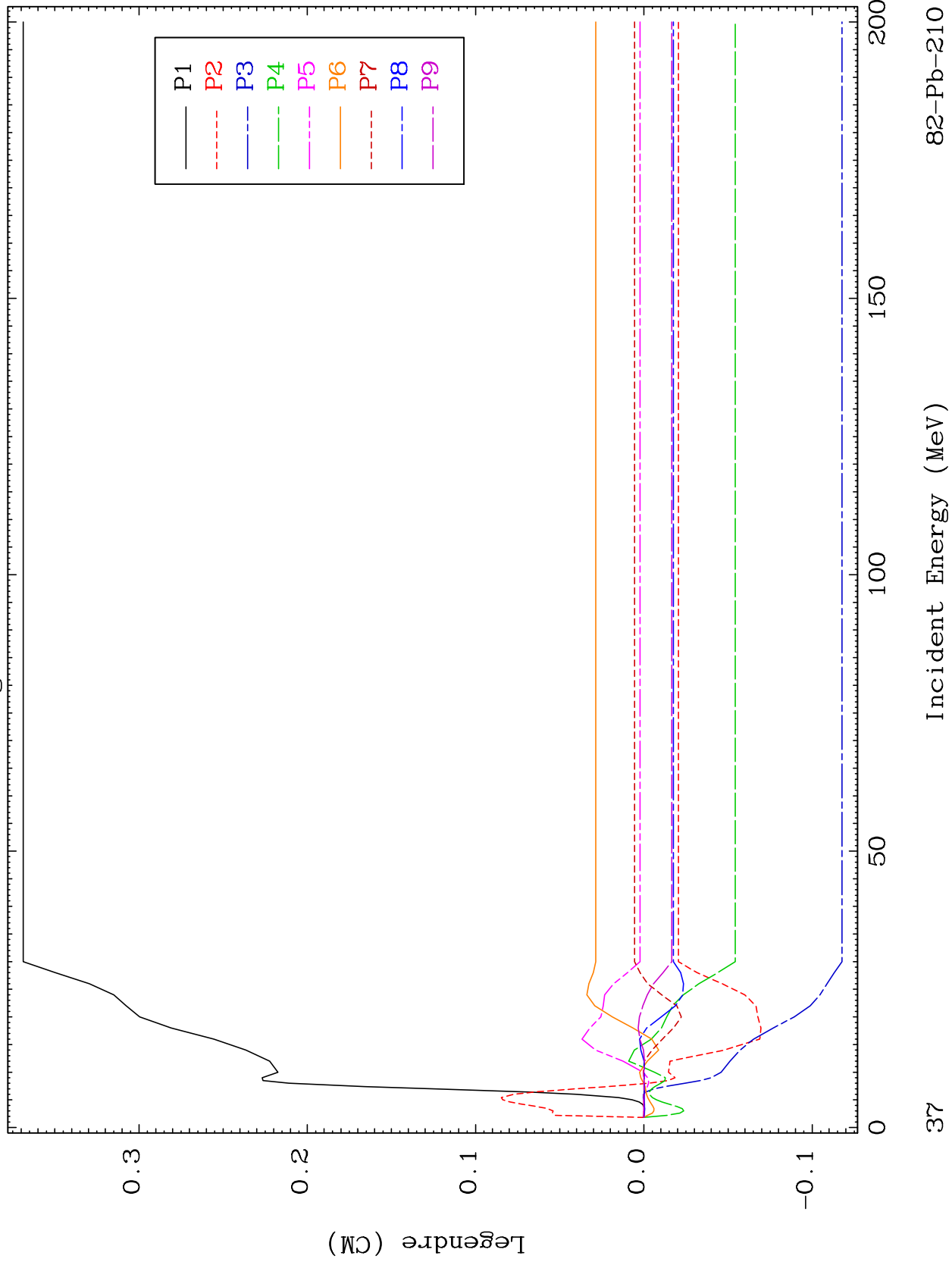
82-Pb-210



MAT 8243

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

82-Pb-210

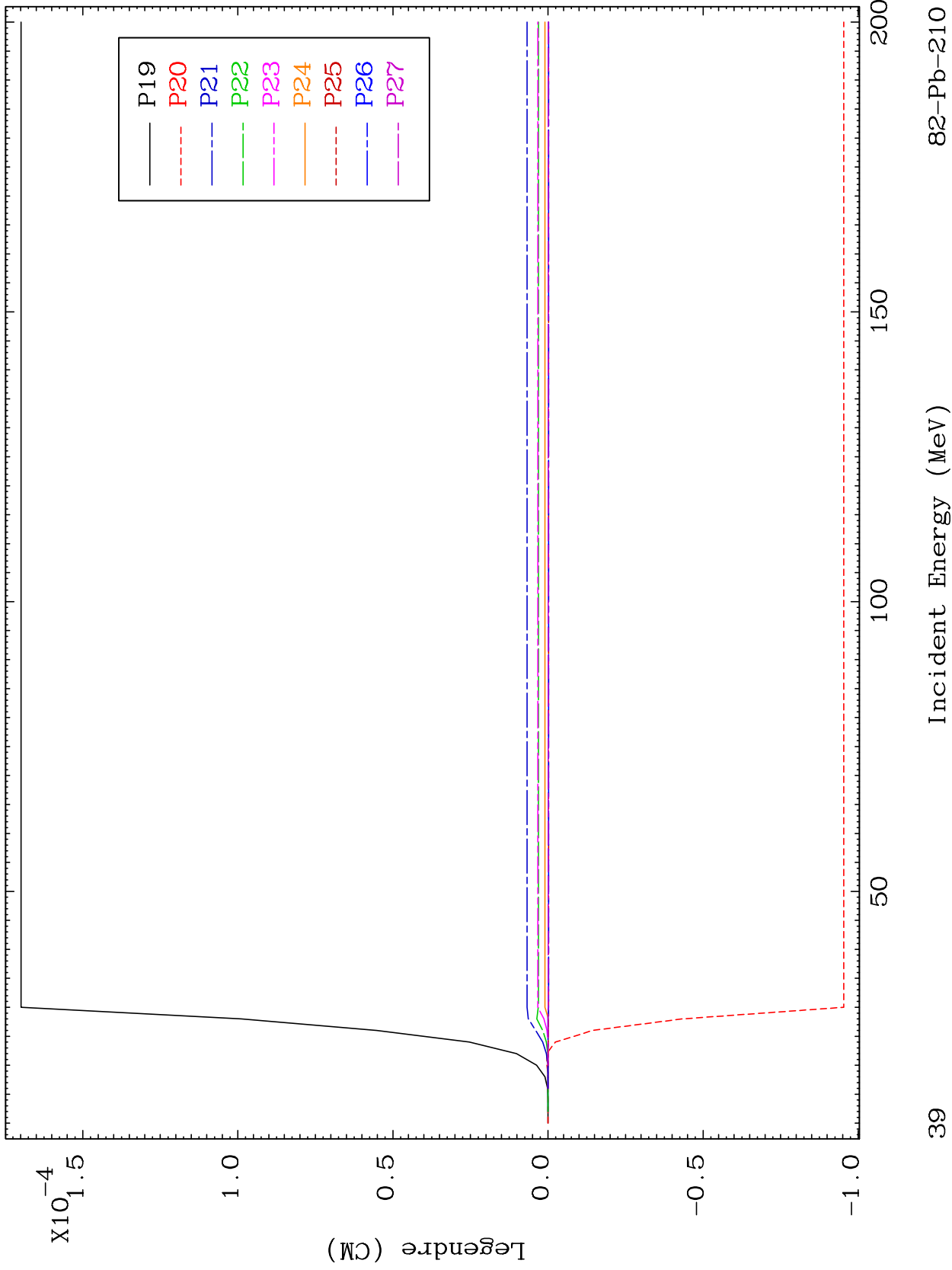


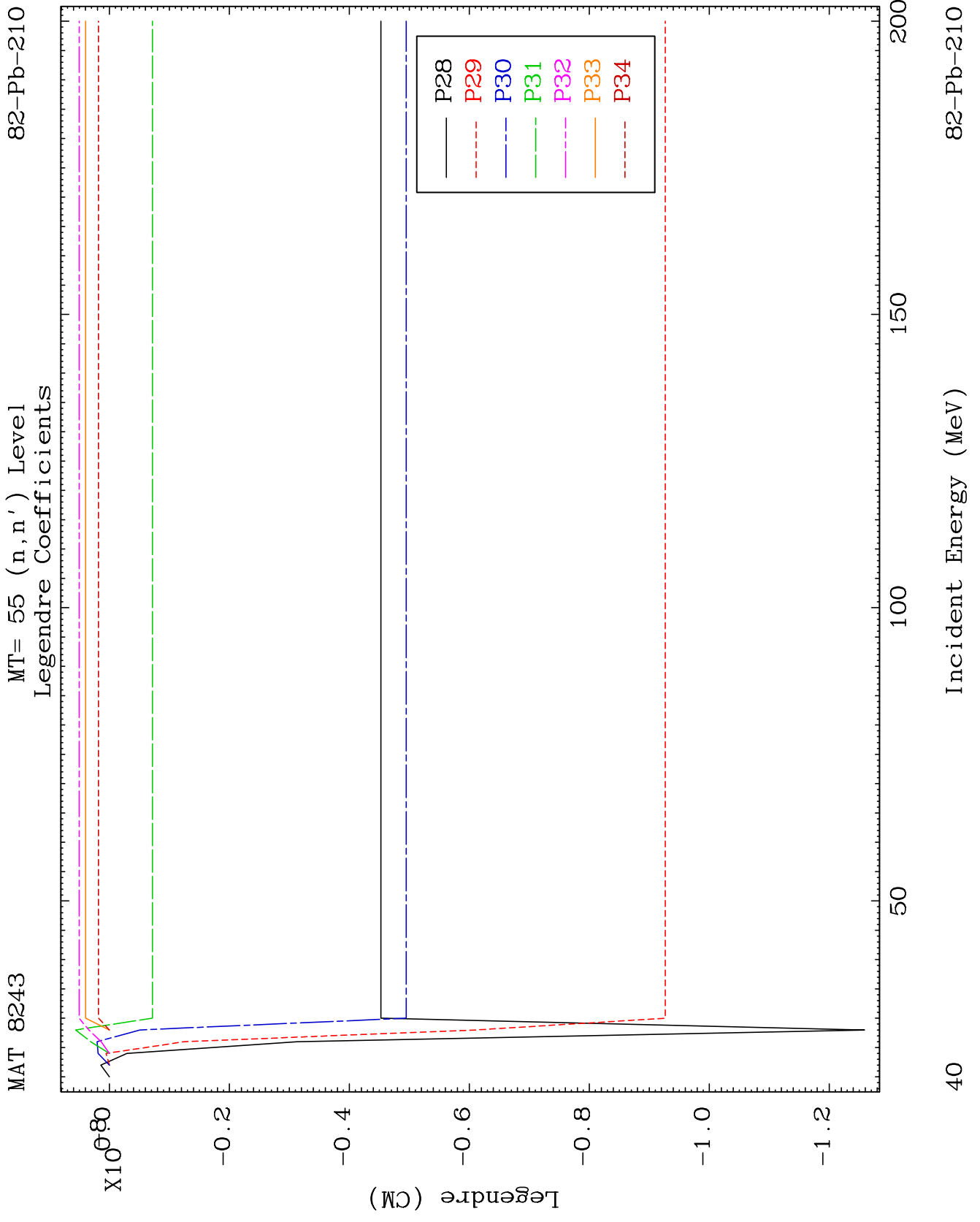
82-Pb-210

Incident Energy (MeV)

37





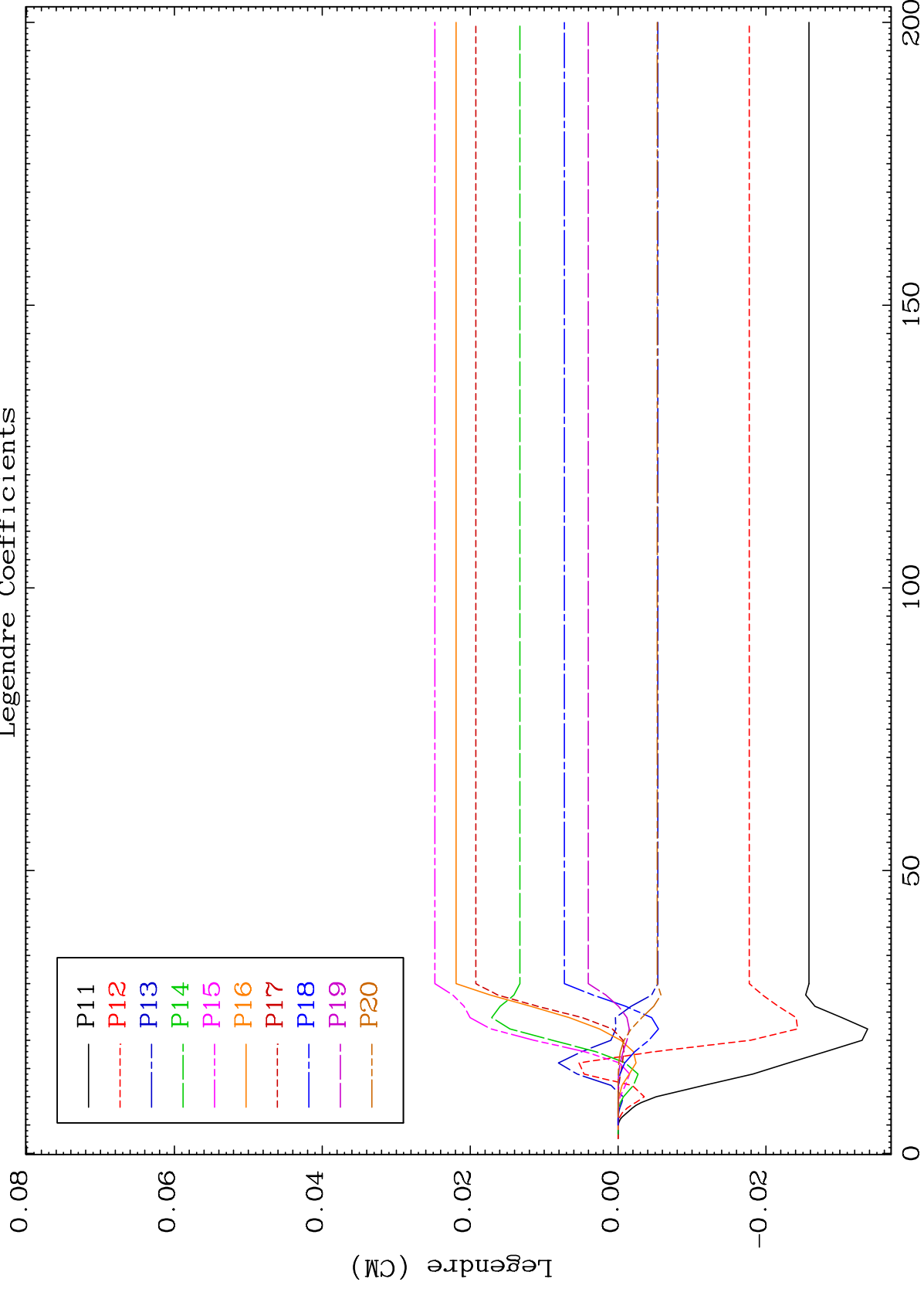




MAT 8243

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

82-Pb-210



42

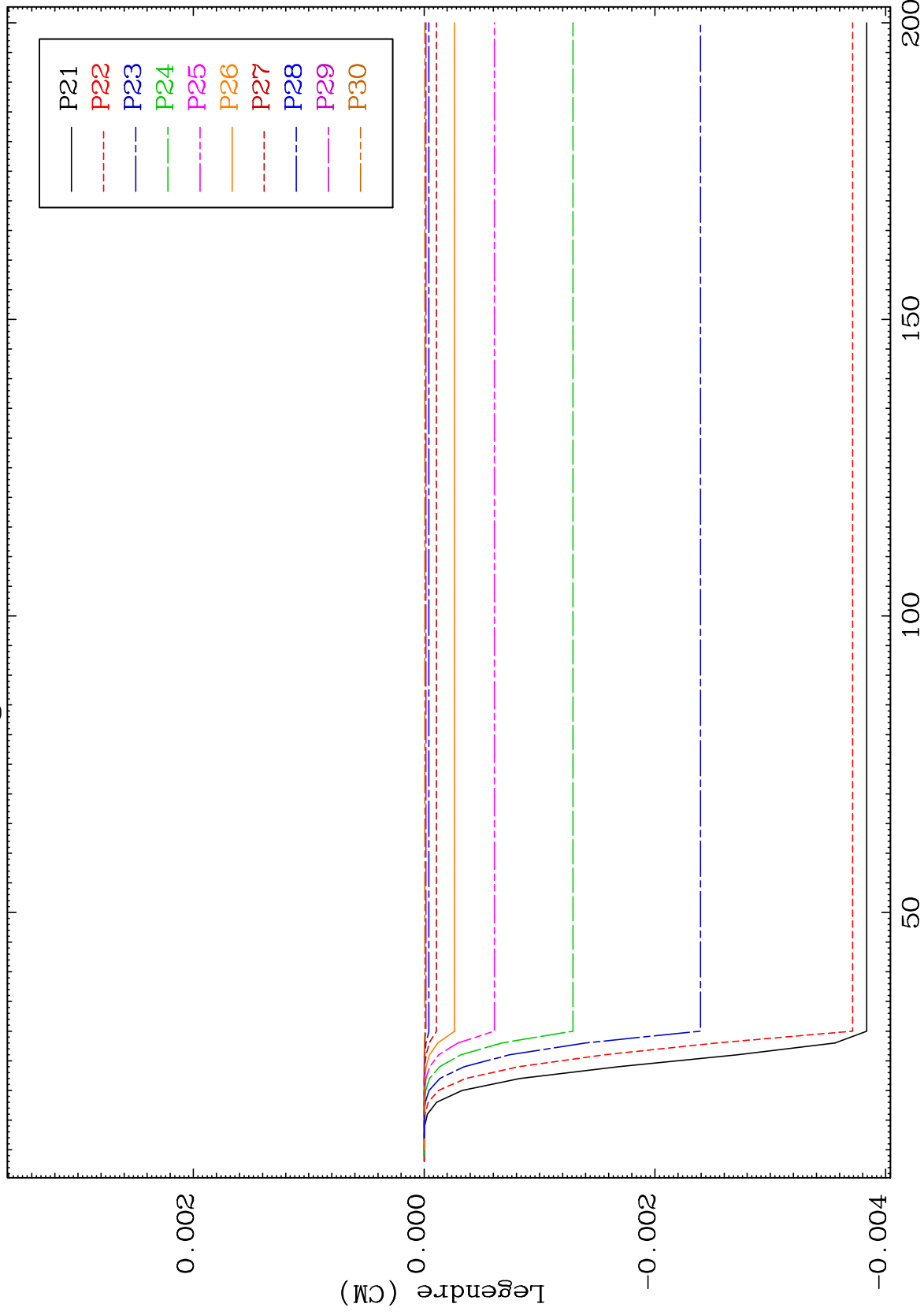
Incident Energy (MeV)

82-Pb-210

MAT 8243

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

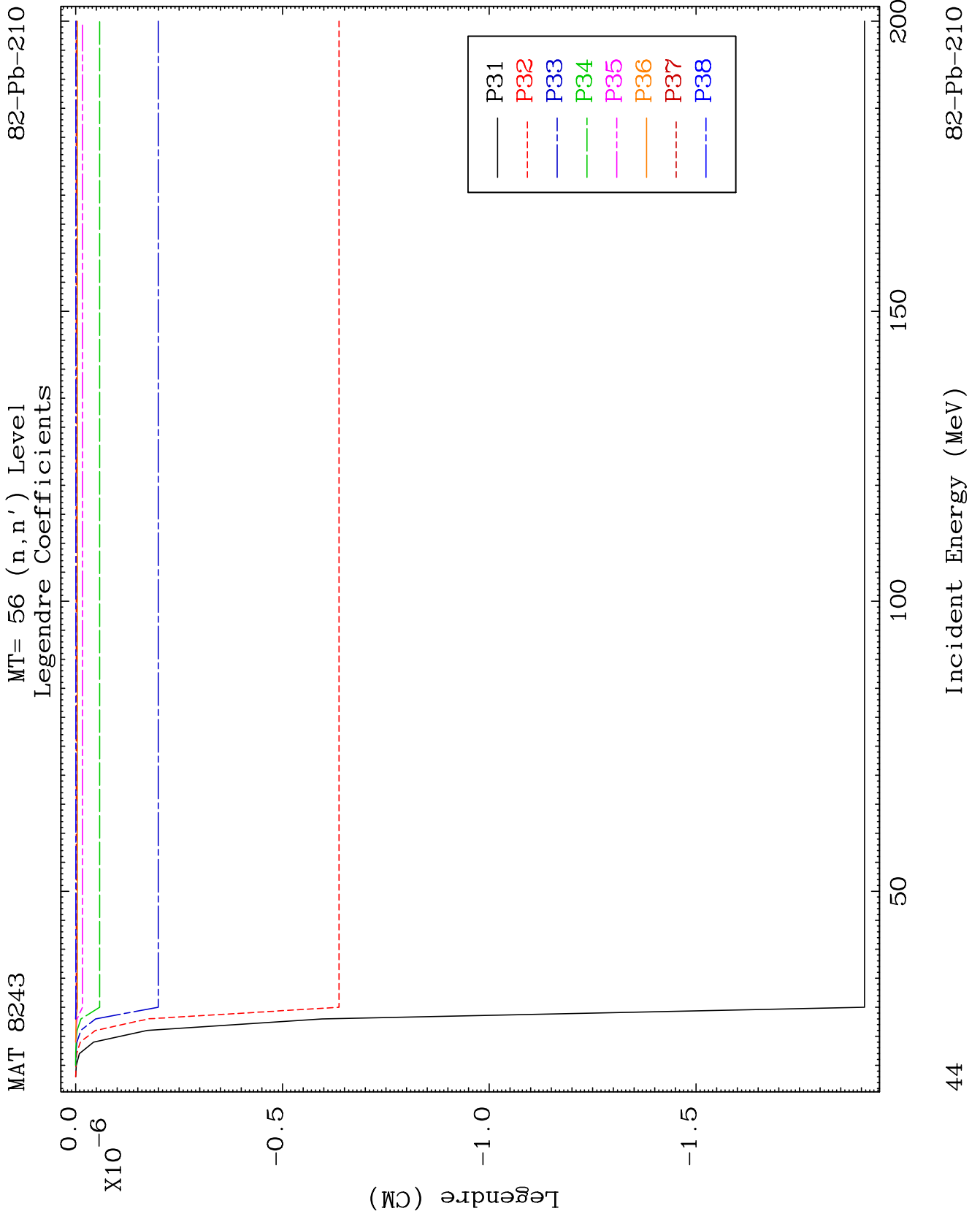
82-Pb-210



43

Incident Energy (MeV)

82-Pb-210

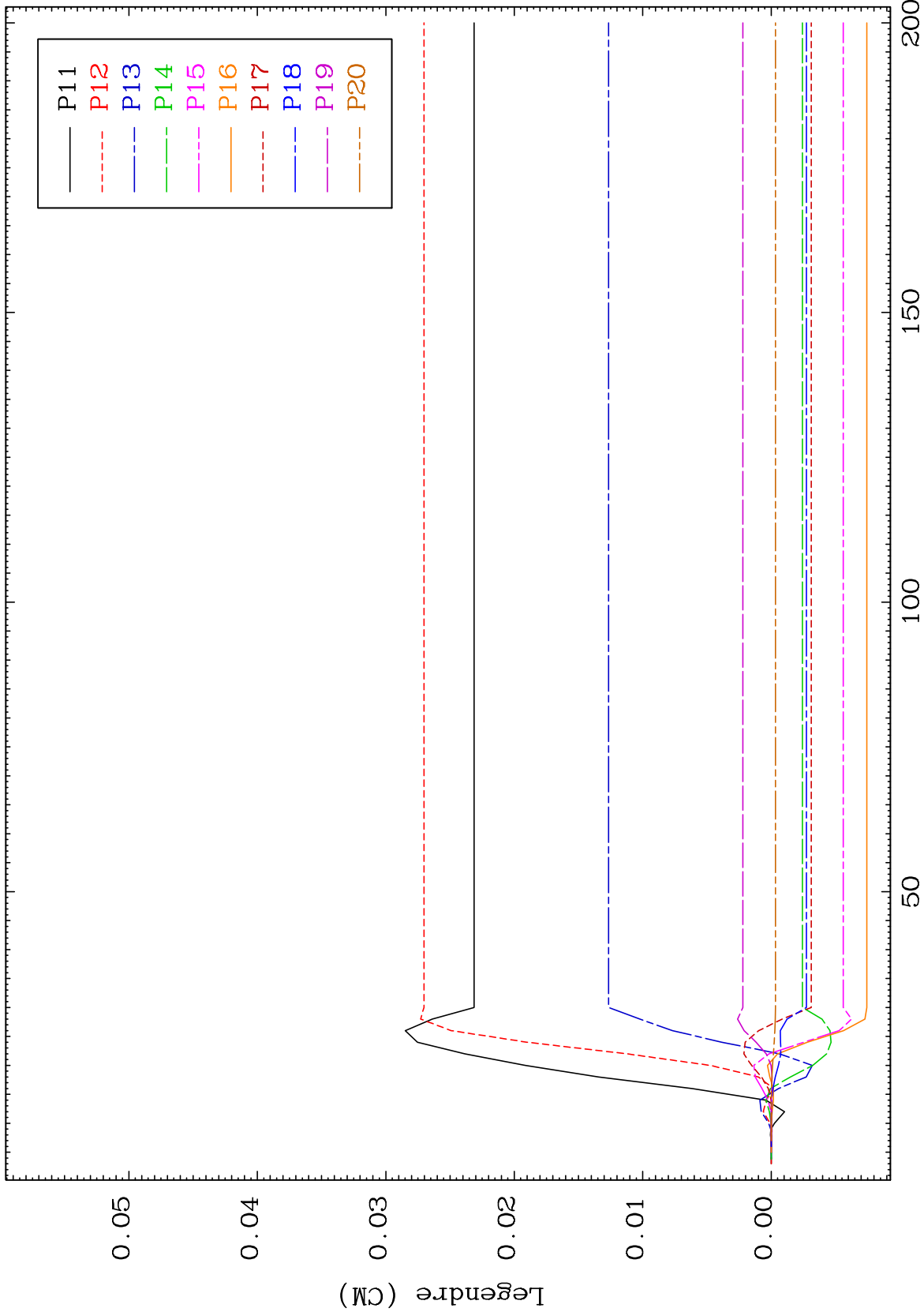




MAT 8243

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

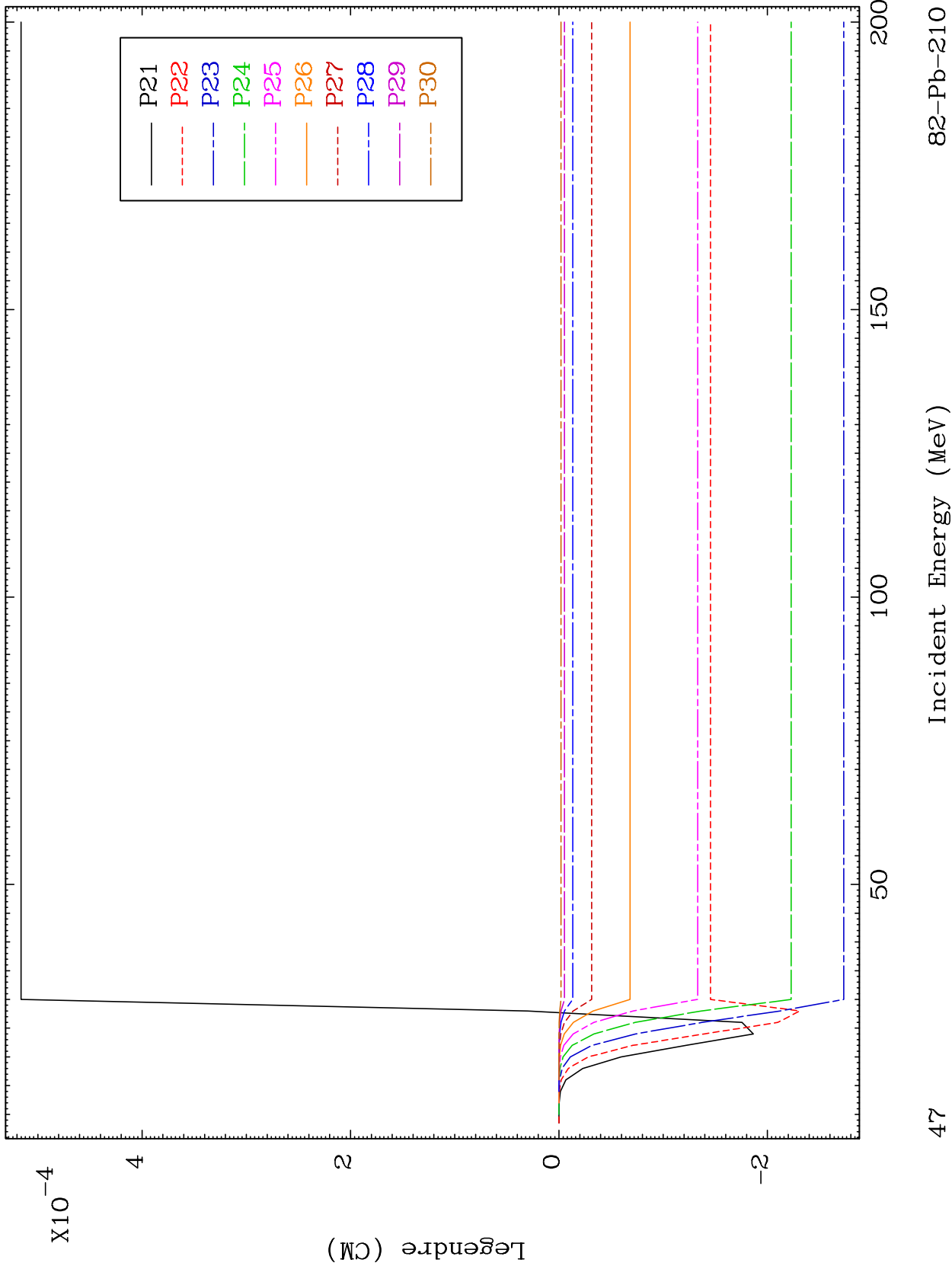
82-Pb-210



MAT 8243

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

82-Pb-210

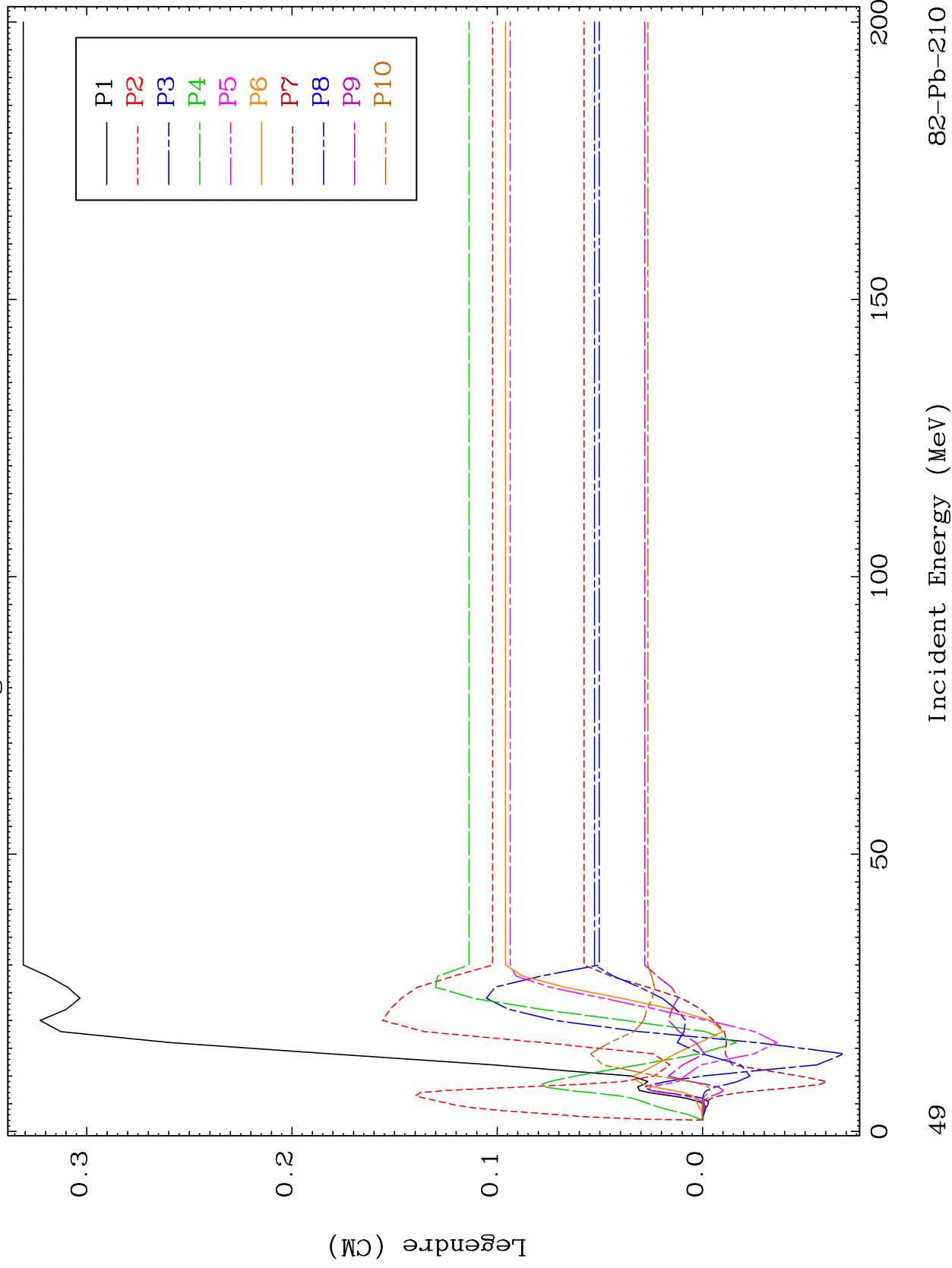




MAT 8243

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

82-Pb-210



49

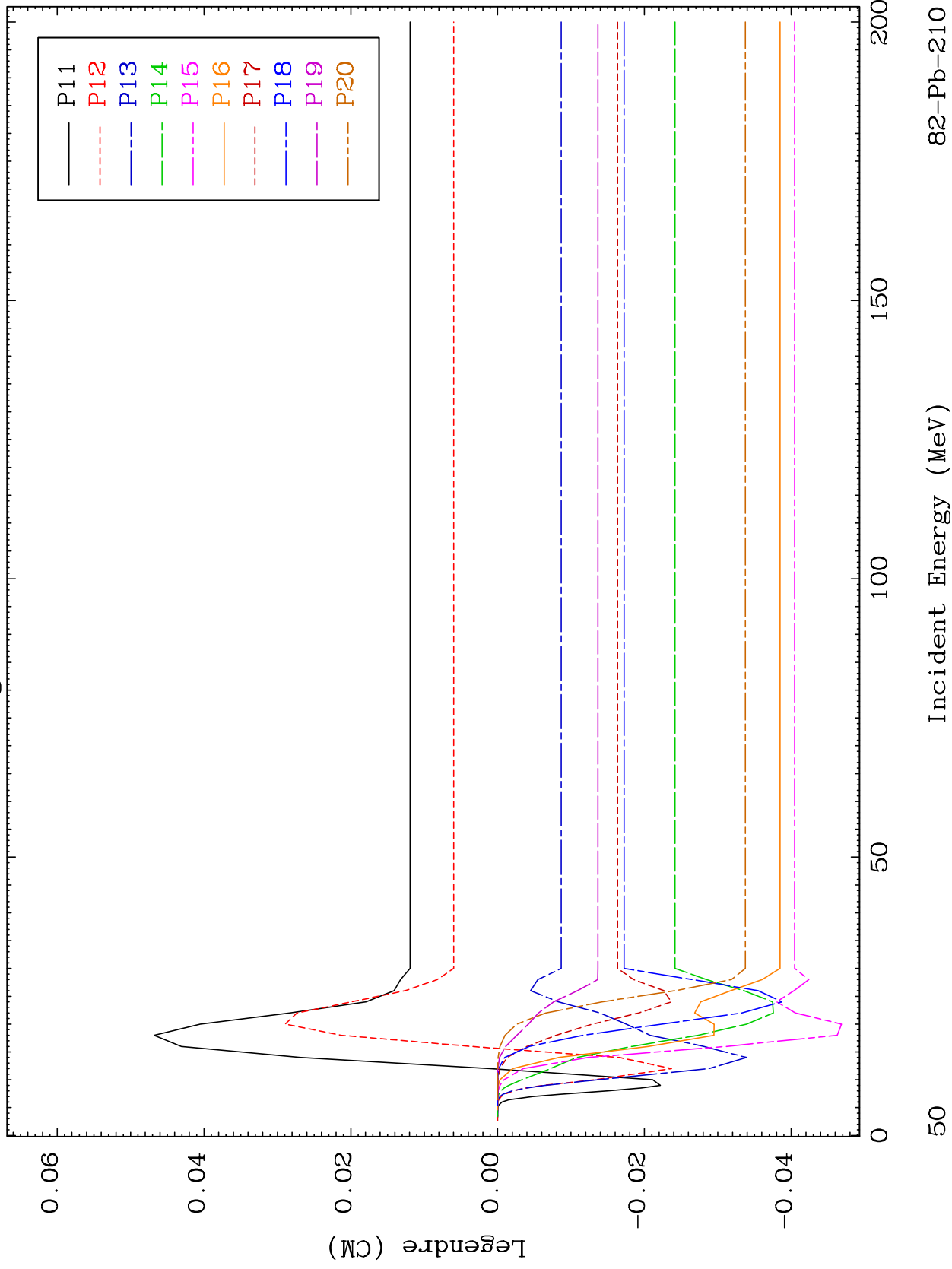
Incident Energy (MeV)

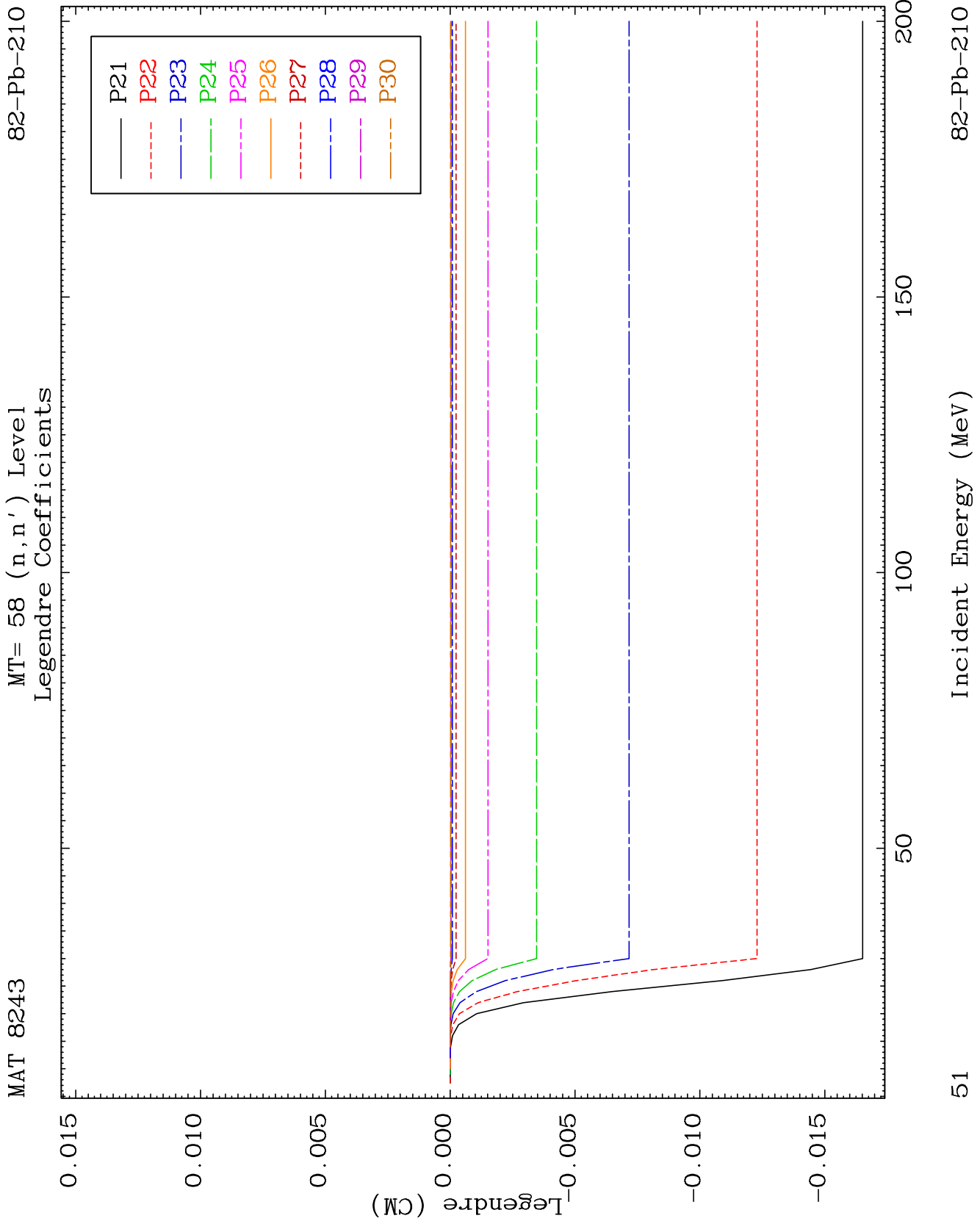
82-Pb-210

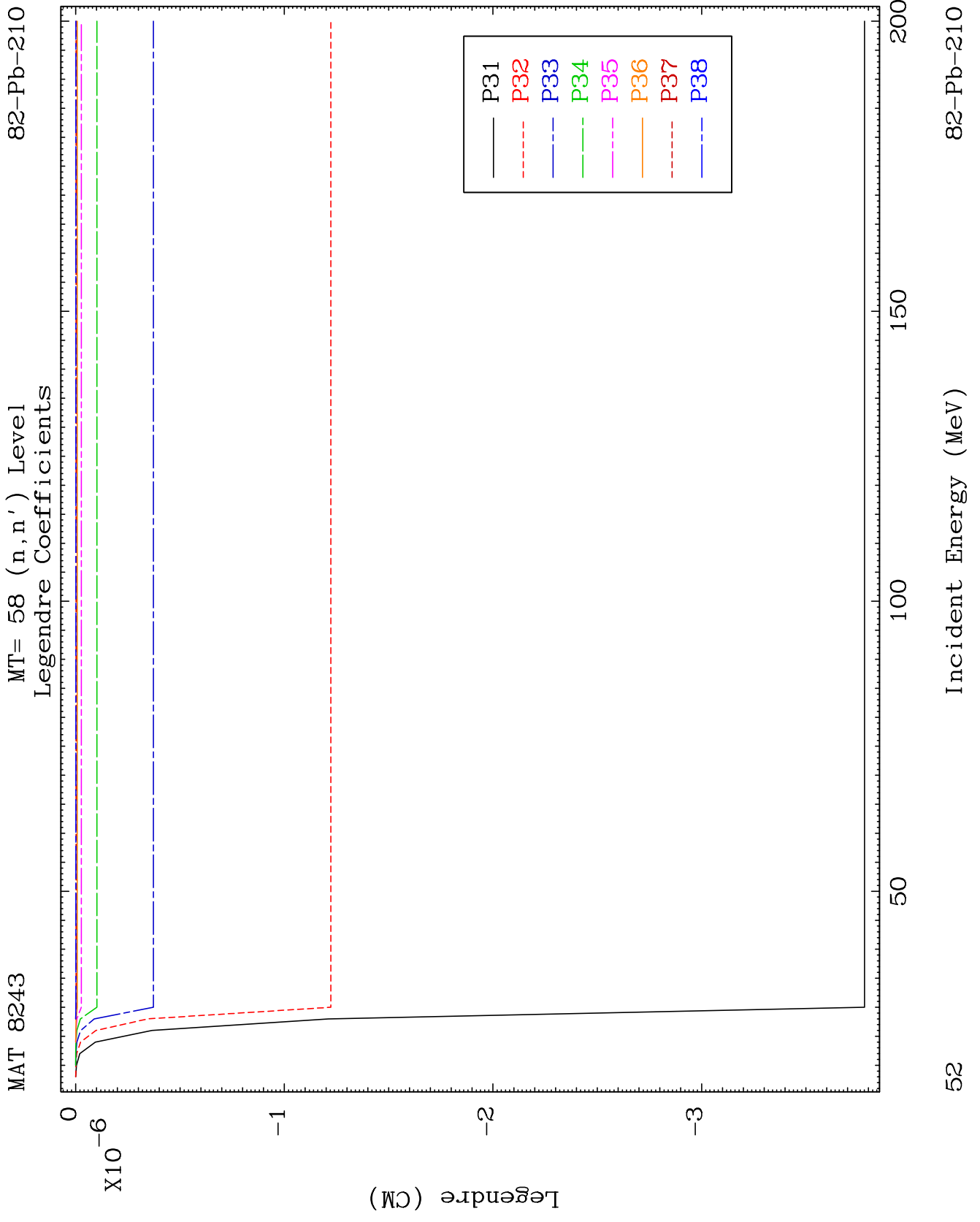
MAT 8243

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

82-Pb-210



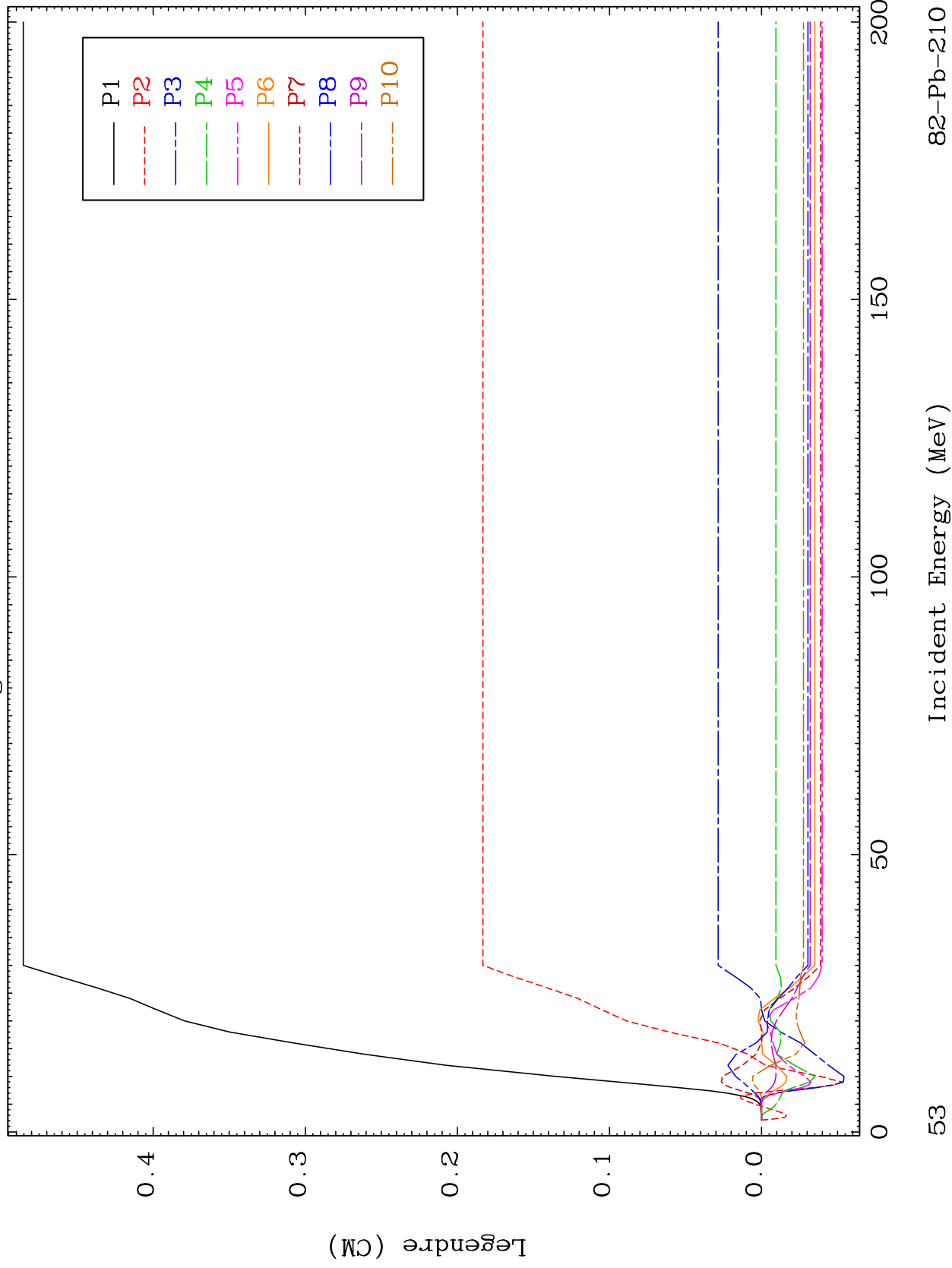




MAT 8243

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

82-Pb-210



82-Pb-210

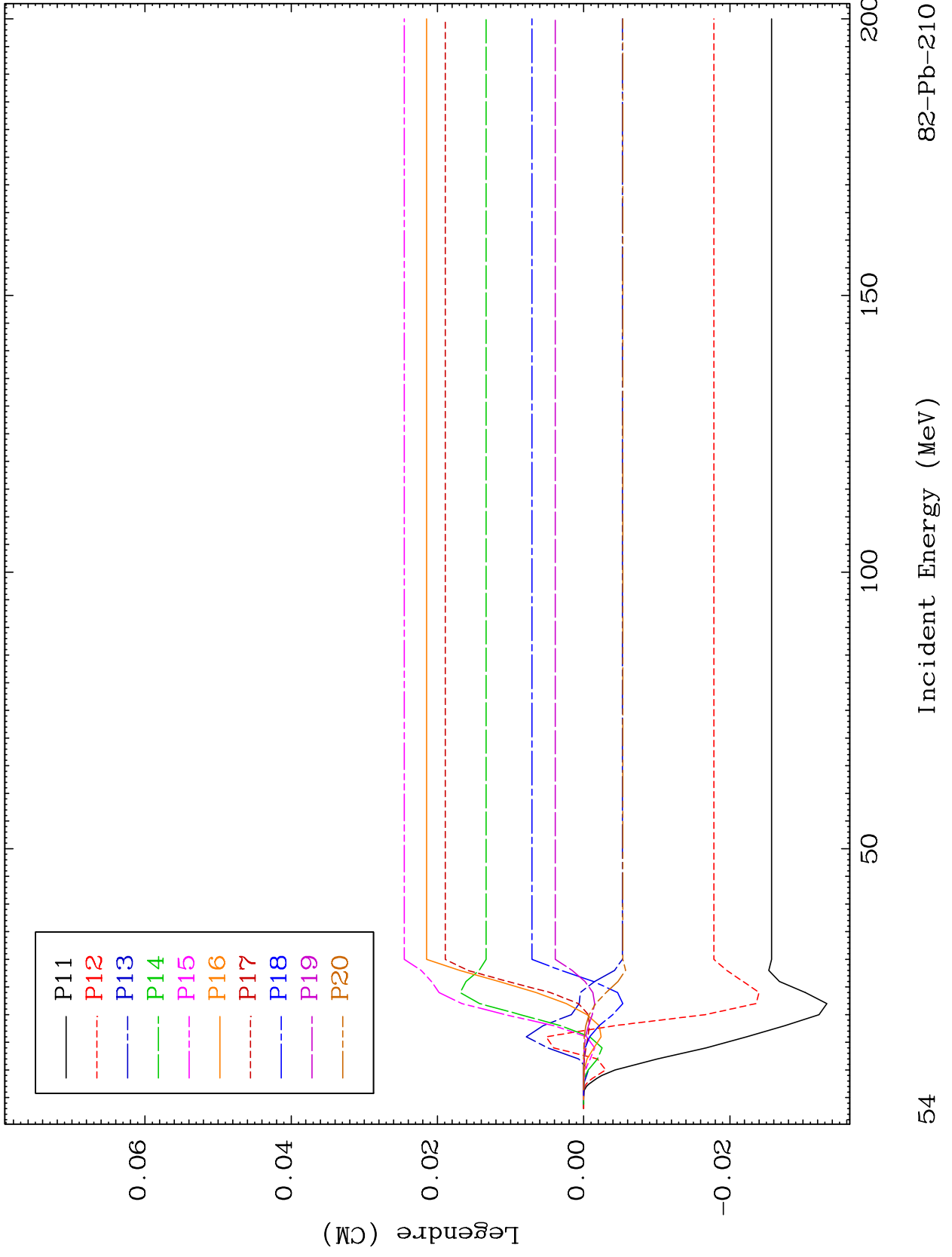
Incident Energy (MeV)

53

MAT 8243

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

82-Pb-210



54

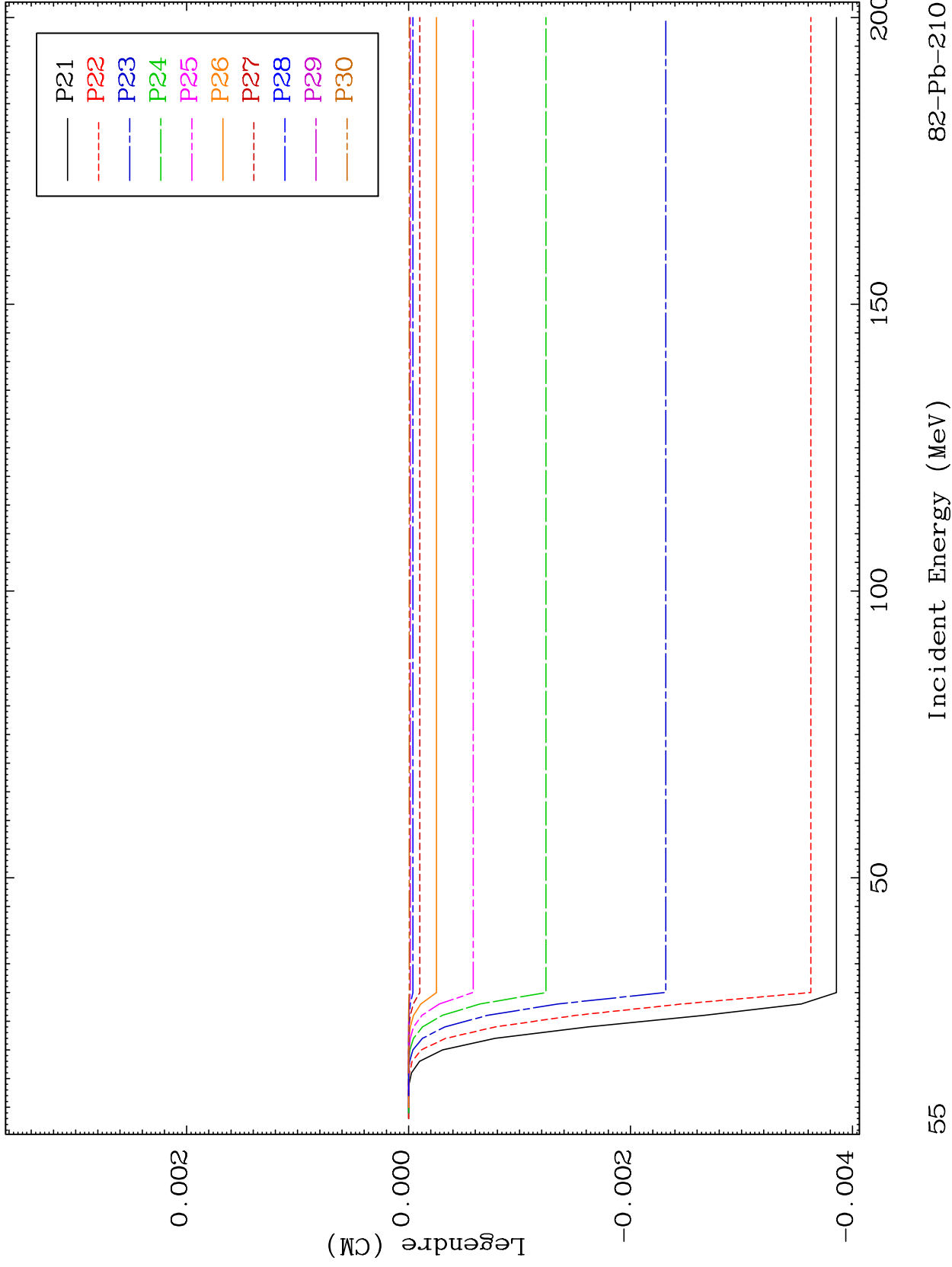
Incident Energy (MeV)

82-Pb-210

MAT 8243

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

82-Pb-210



55

Incident Energy (MeV)

82-Pb-210

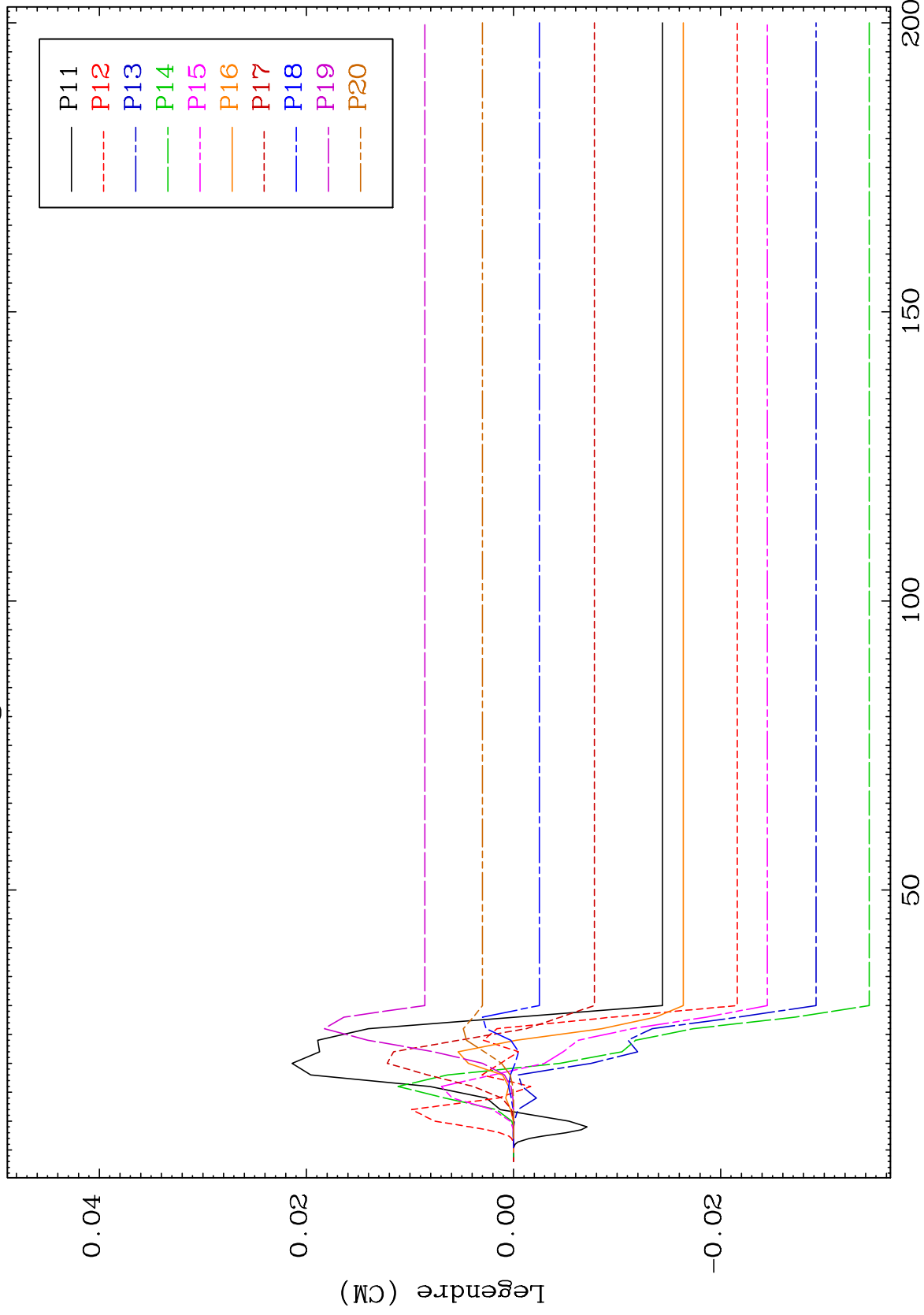




MAT 8243

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

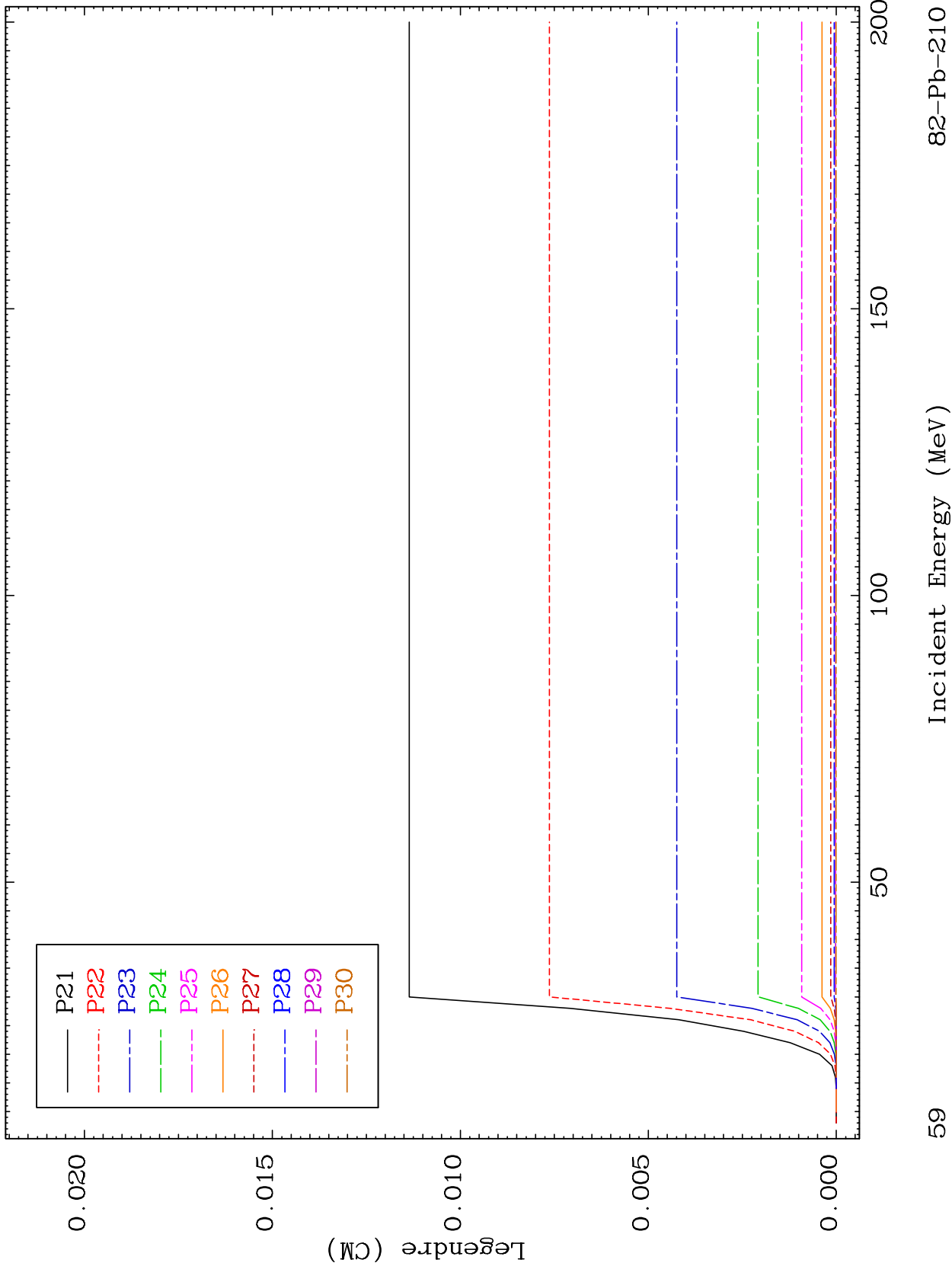
82-Pb-210



MAT 8243

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

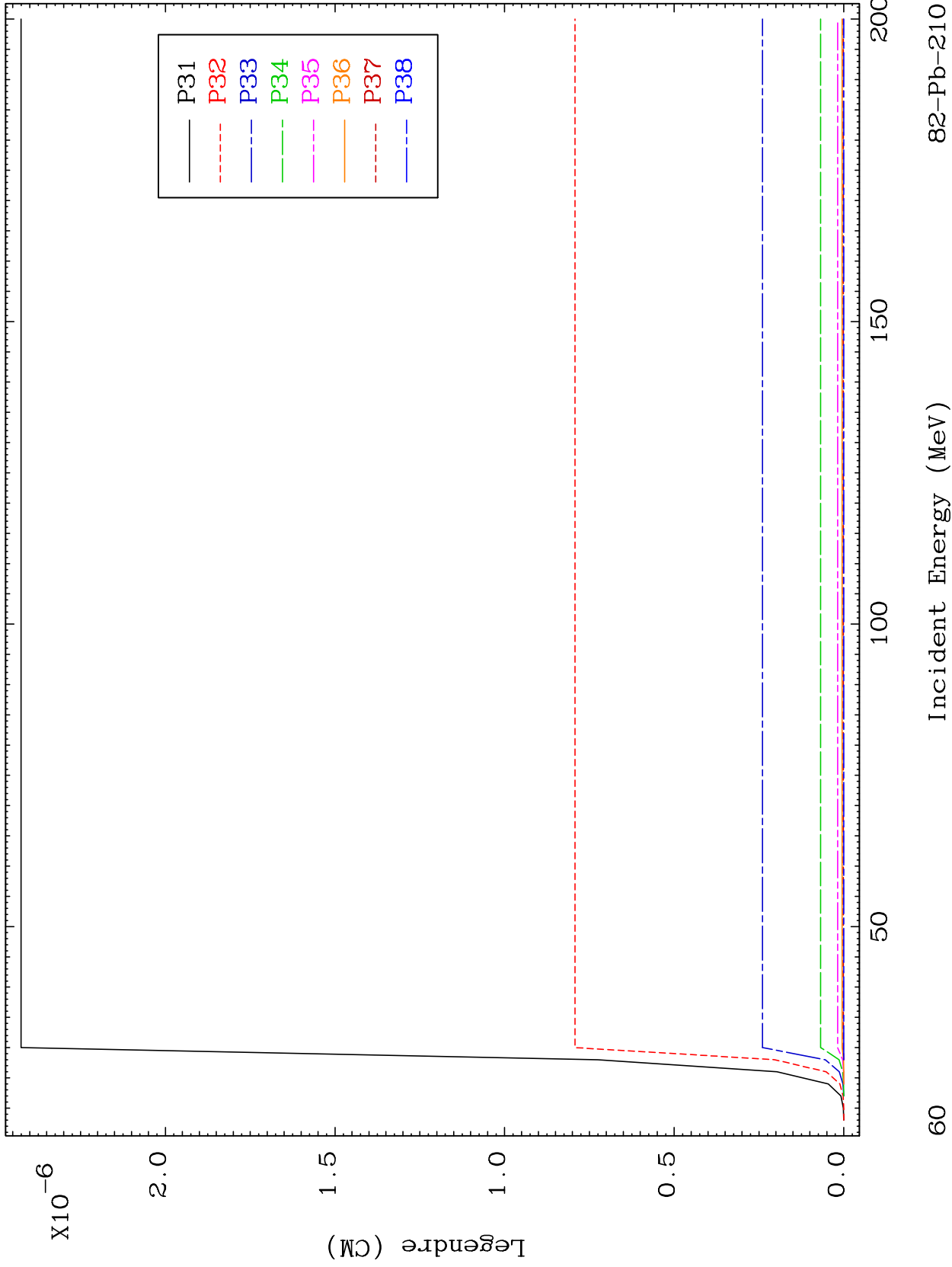
82-Pb-210



MAT 8243

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

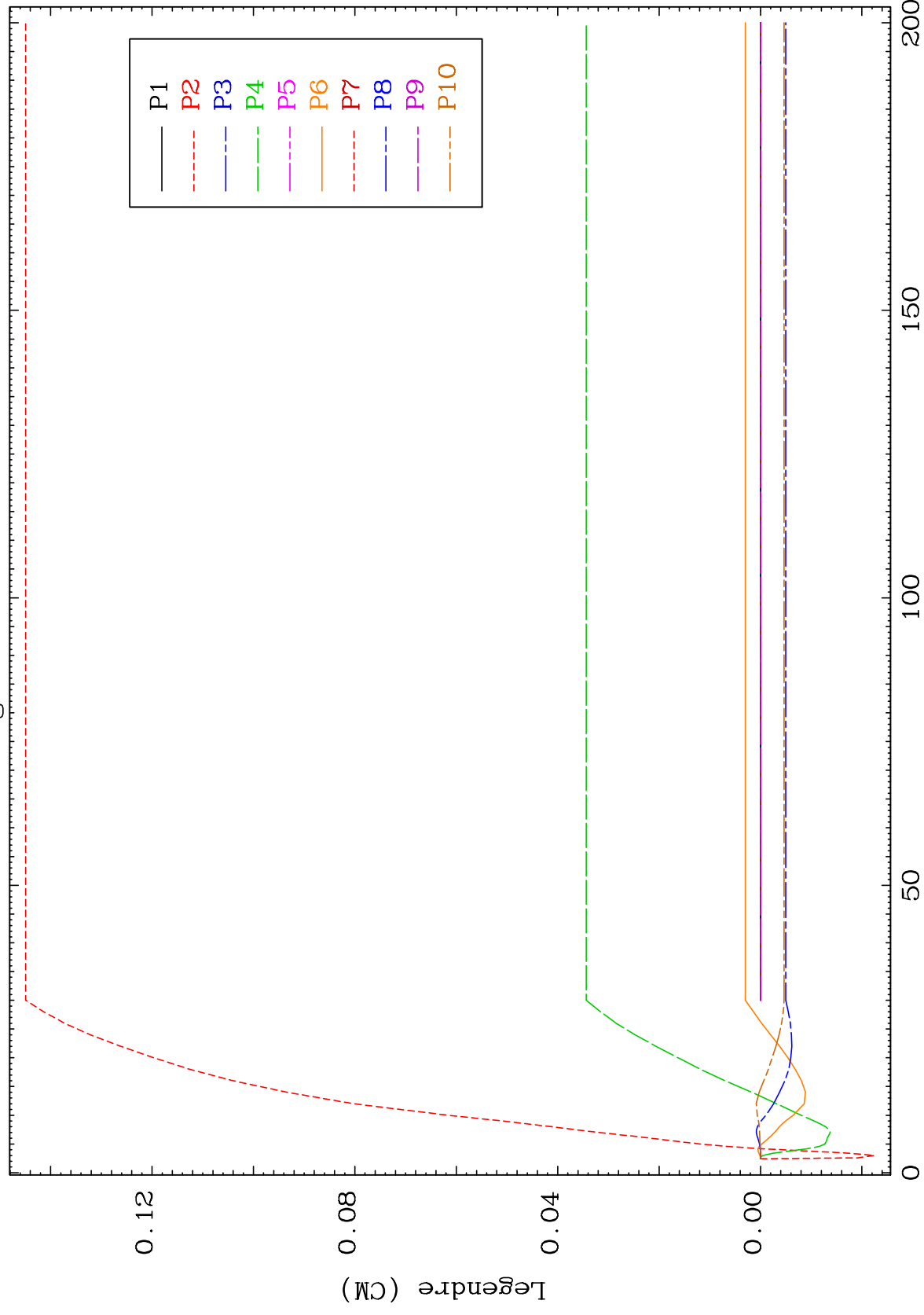
82-Pb-210



MAT 8243

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

82-Pb-210



61

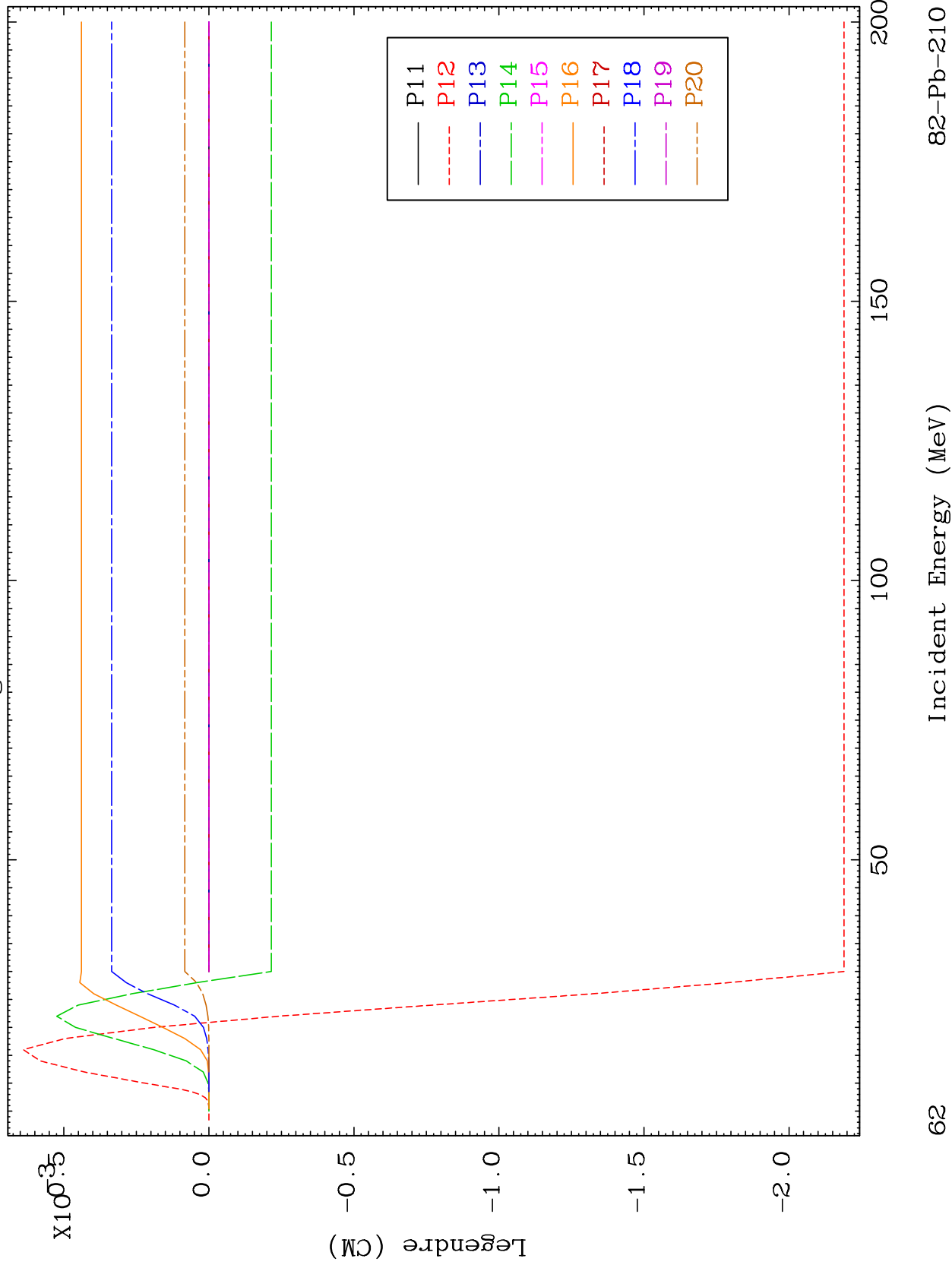
Incident Energy (MeV)

82-Pb-210

MAT 8243

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

82-Pb-210



62

Incident Energy (MeV)

82-Pb-210

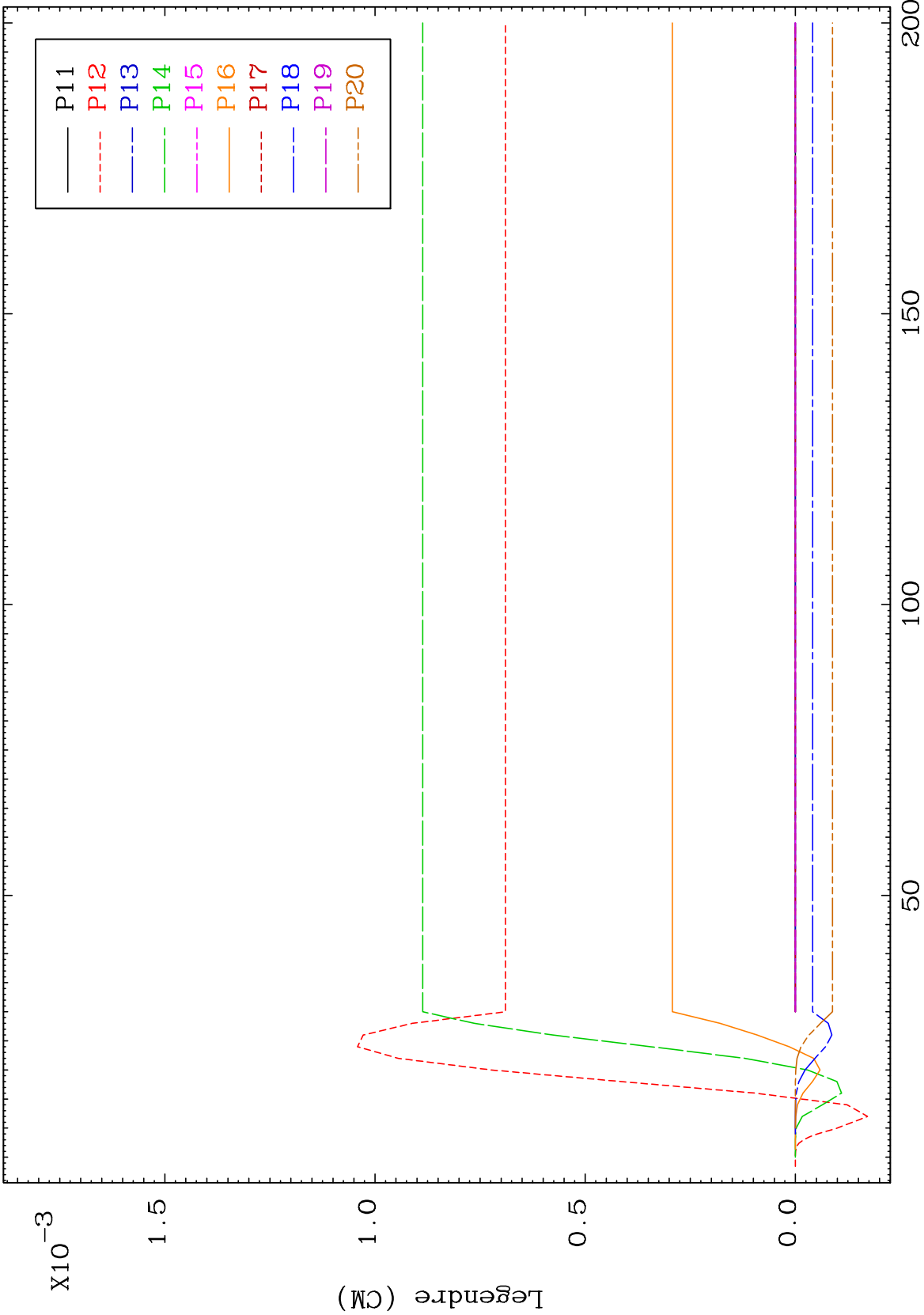




MAT 8243

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

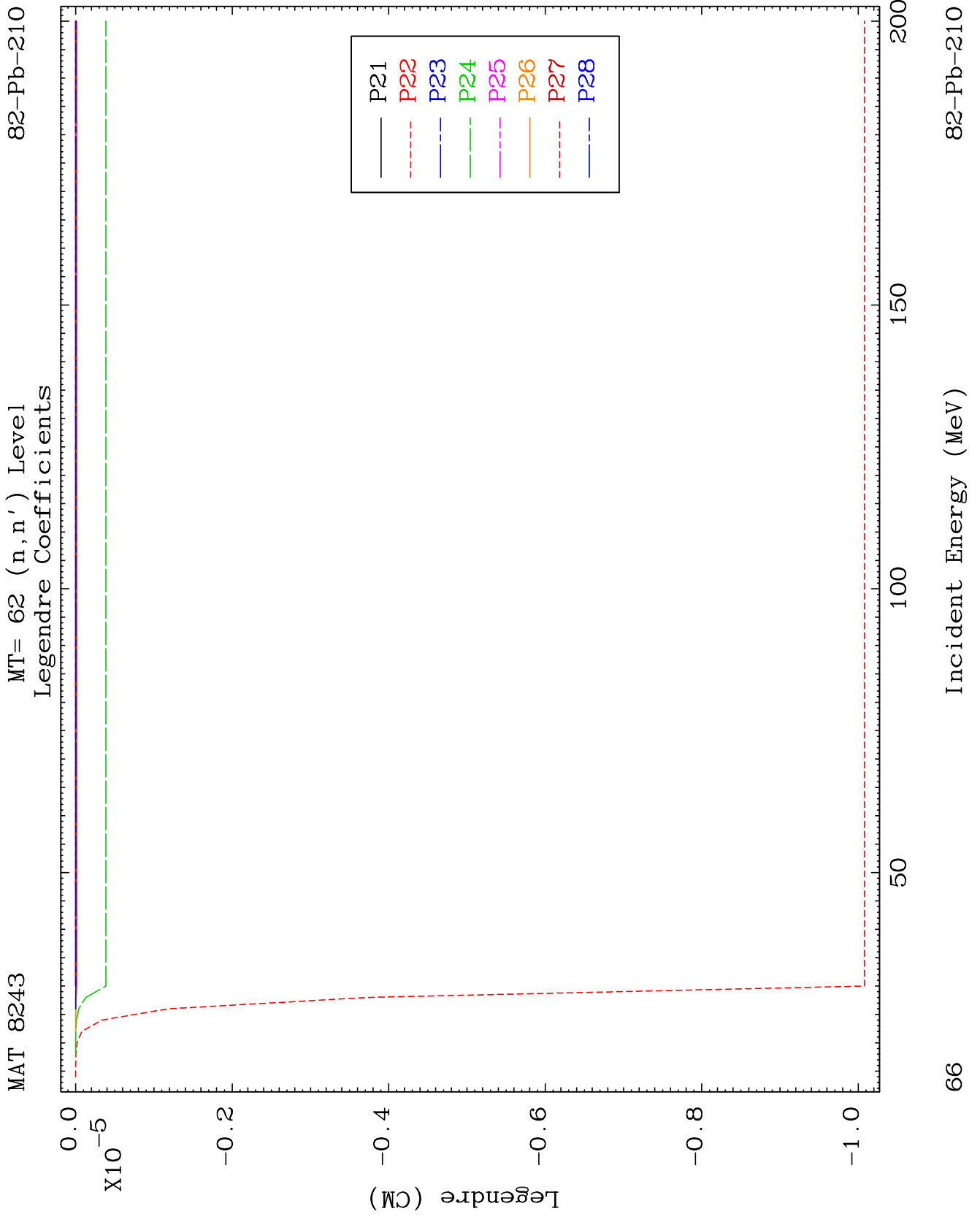
82-Pb-210



65

Incident Energy (MeV)

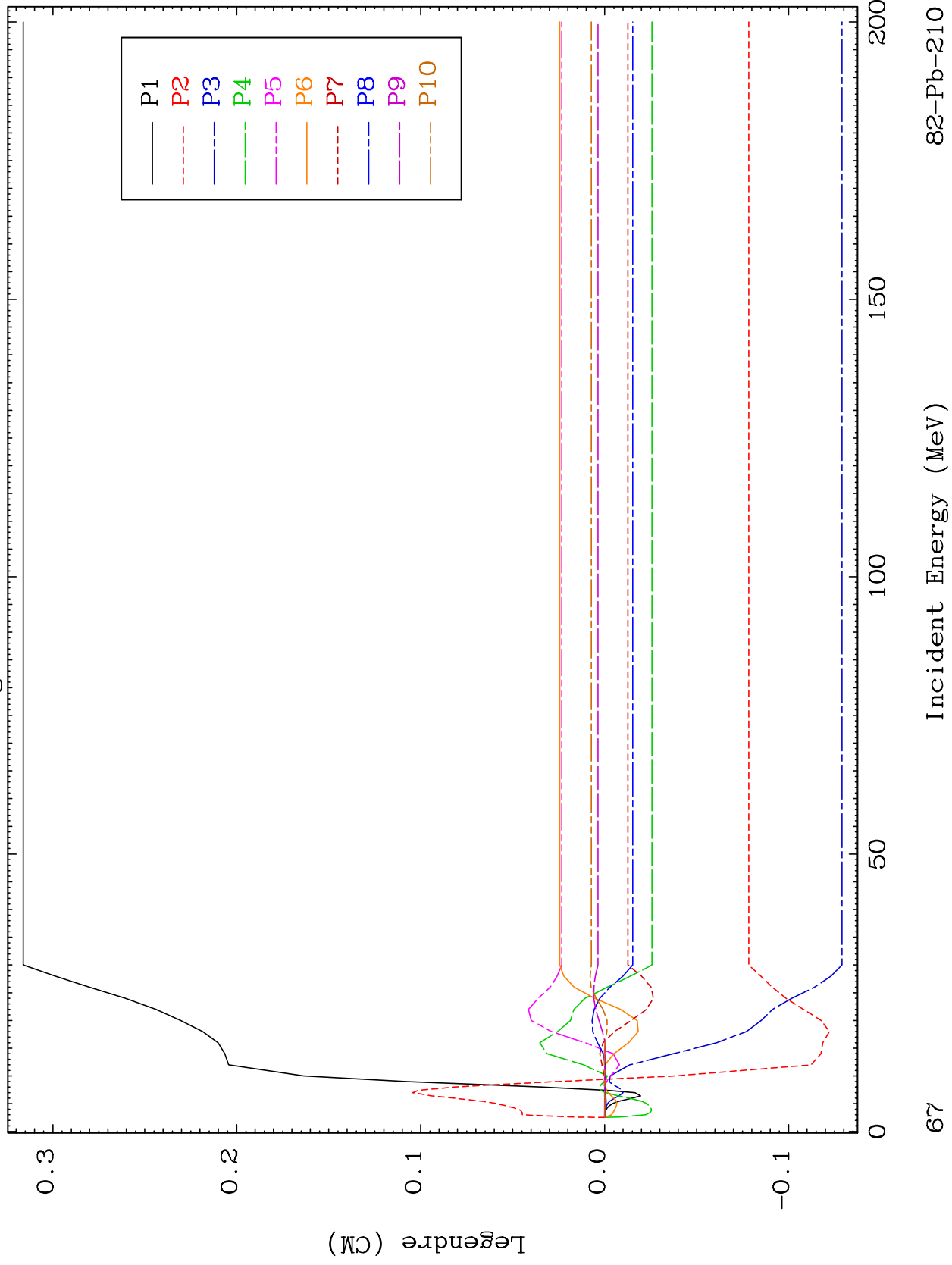
82-Pb-210



MAT 8243

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

82-Pb-210



67

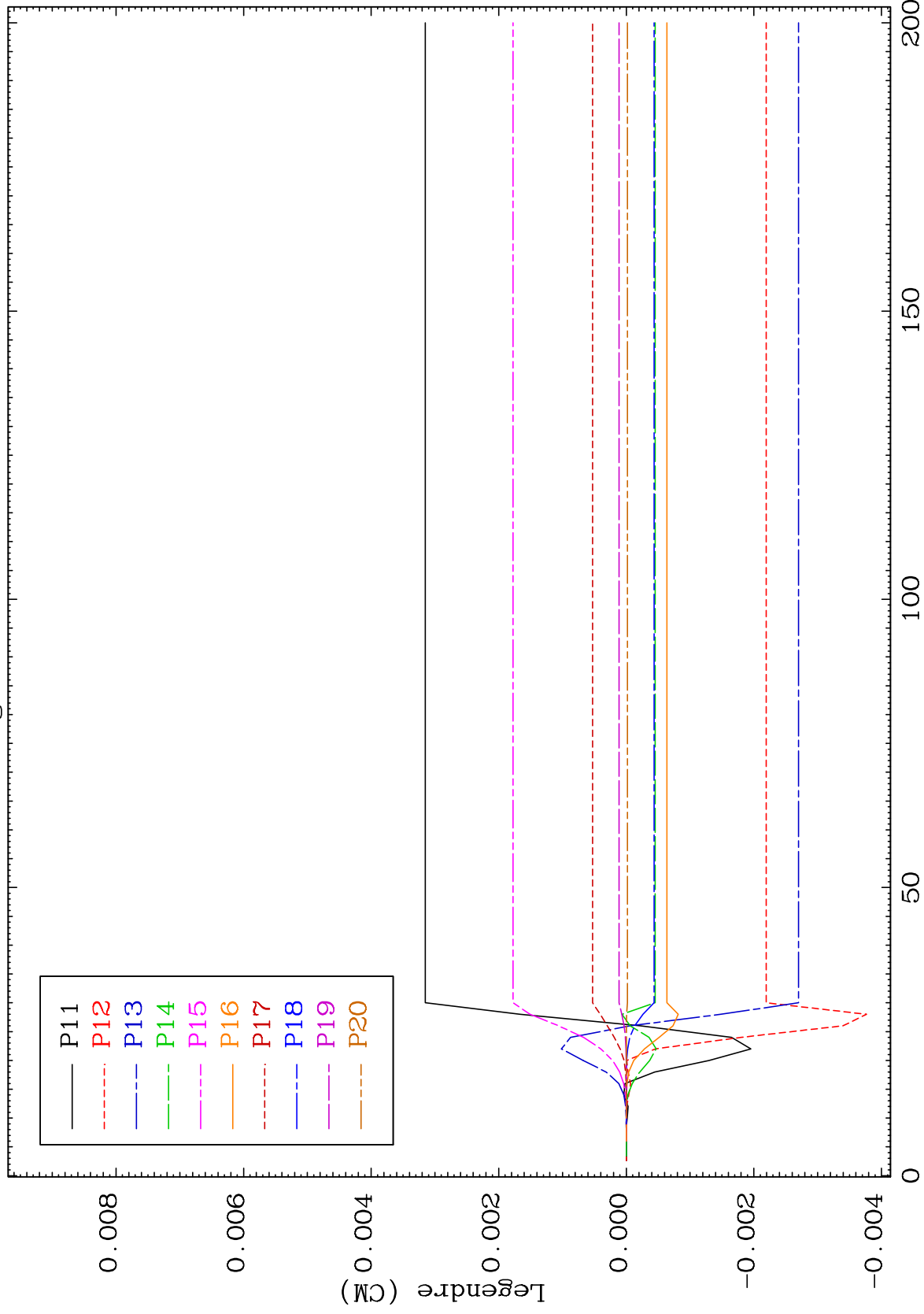
Incident Energy (MeV)

82-Pb-210

MAT 8243

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

82-Pb-210



68

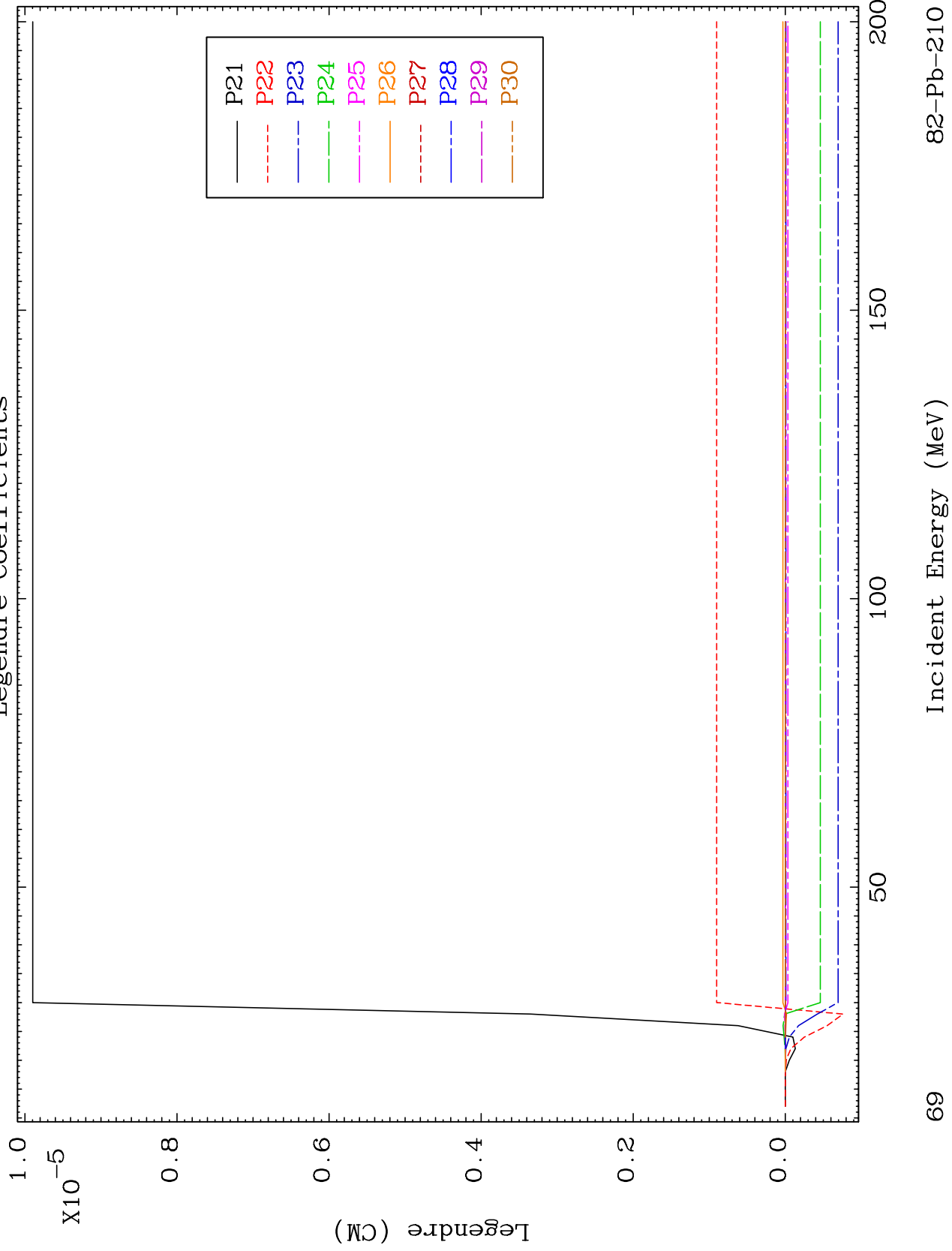
Incident Energy (MeV)

82-Pb-210

MAT 8243

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

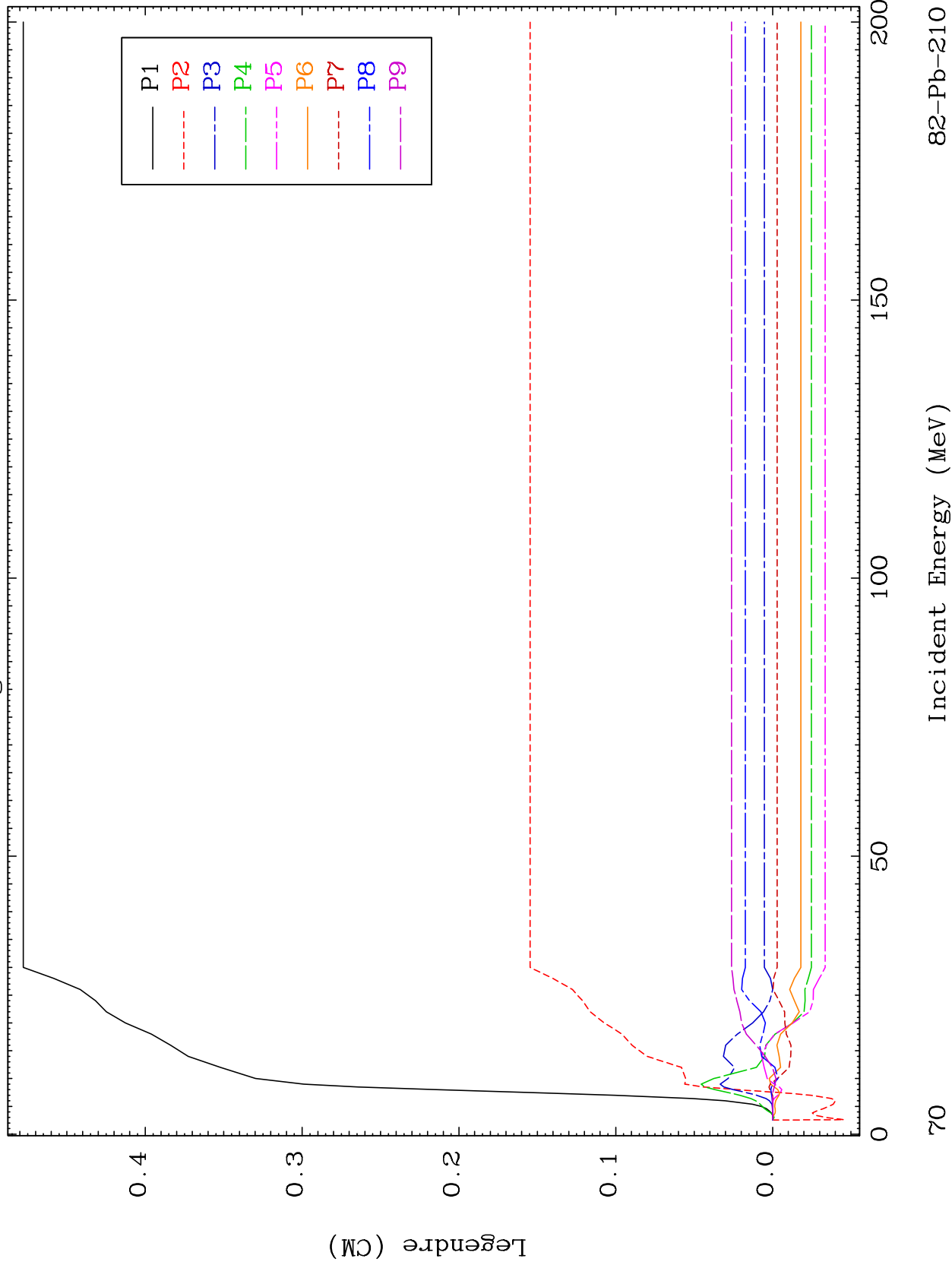
82-Pb-210



MAT 8243

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

82-Pb-210



82-Pb-210

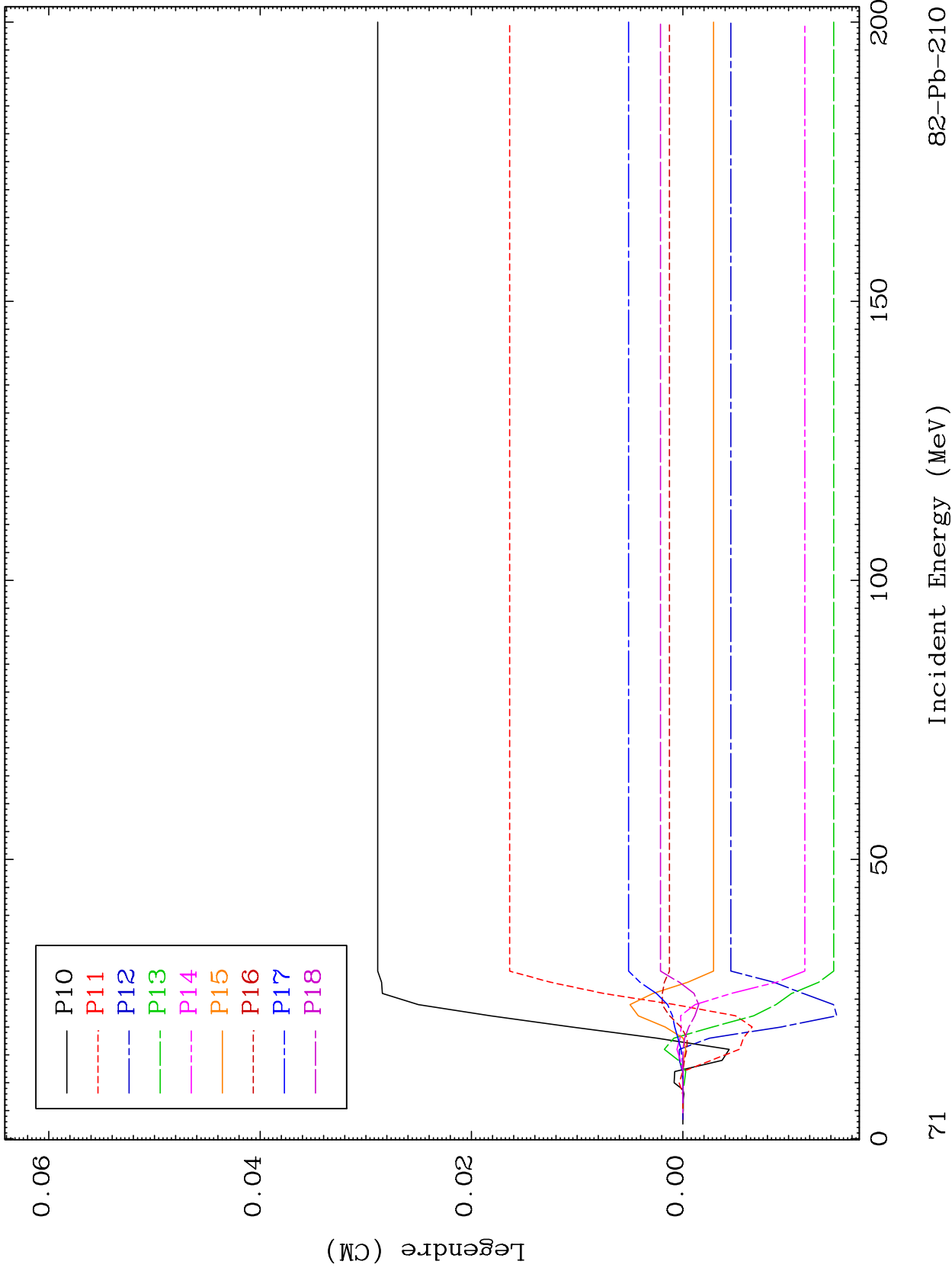
Incident Energy (MeV)

70

MAT 8243

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

82-Pb-210



71

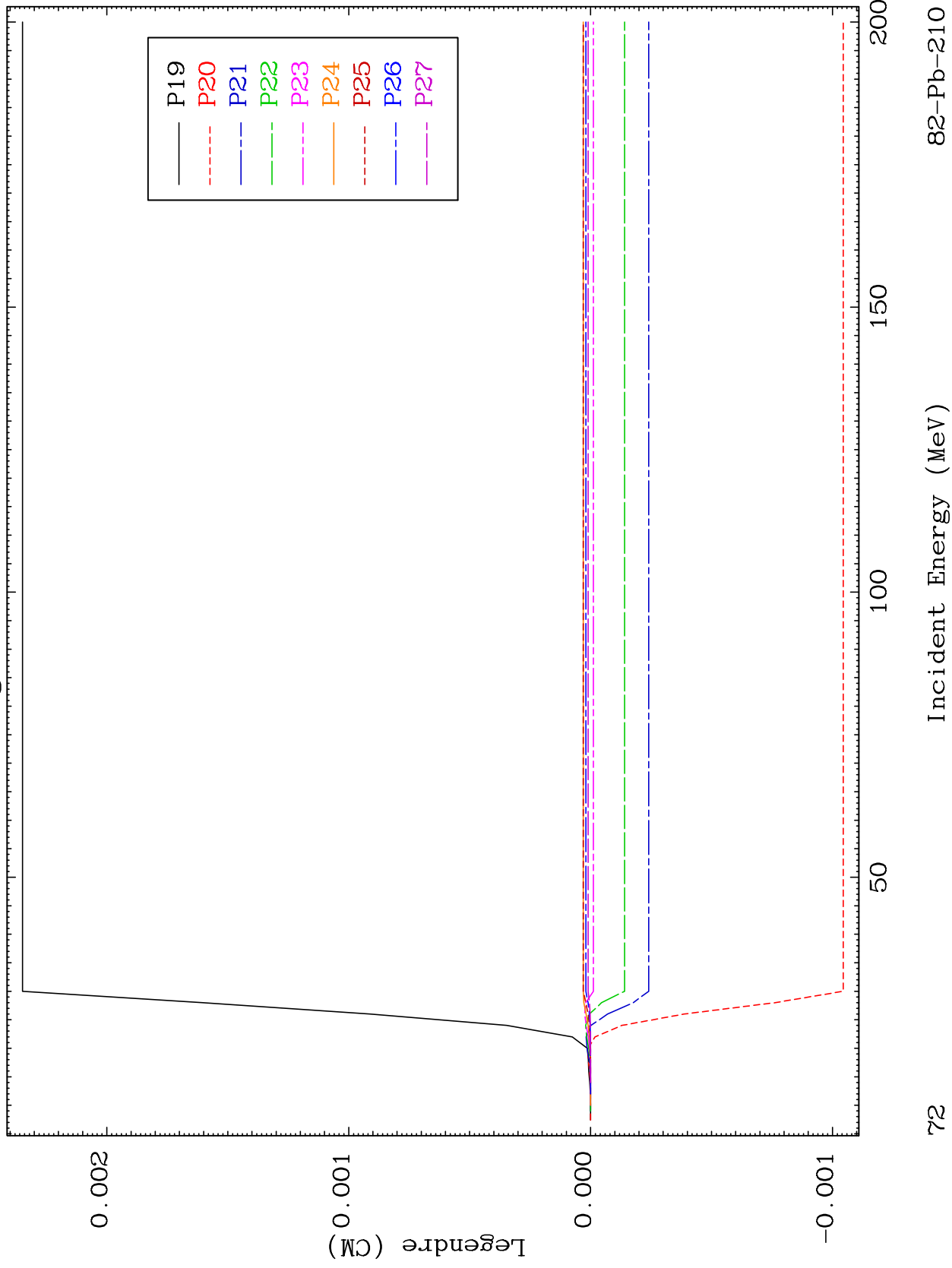
Incident Energy (MeV)

82-Pb-210

MAT 8243

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

82-Pb-210



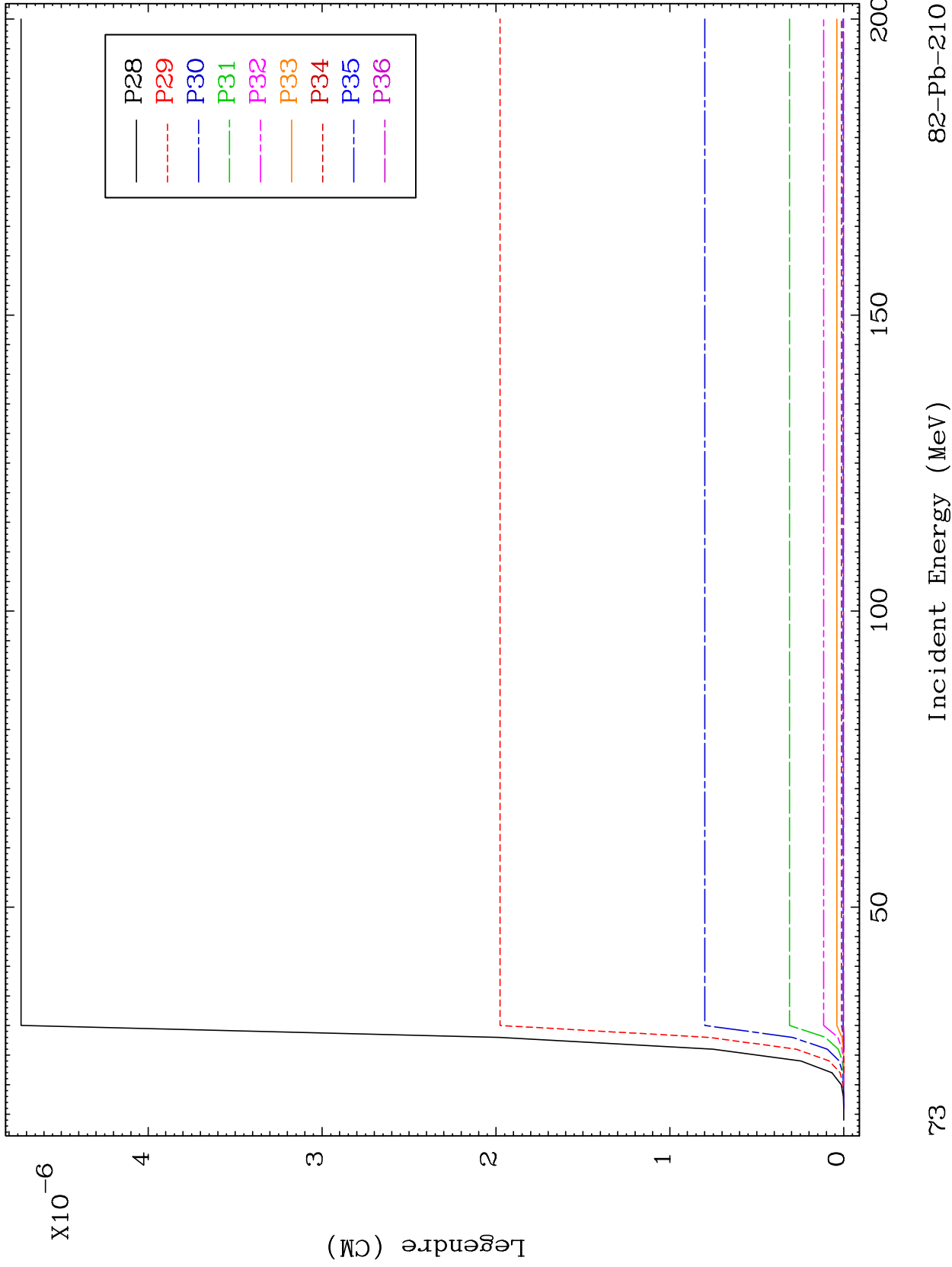
72

82-Pb-210

MAT 8243

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

82-Pb-210



73

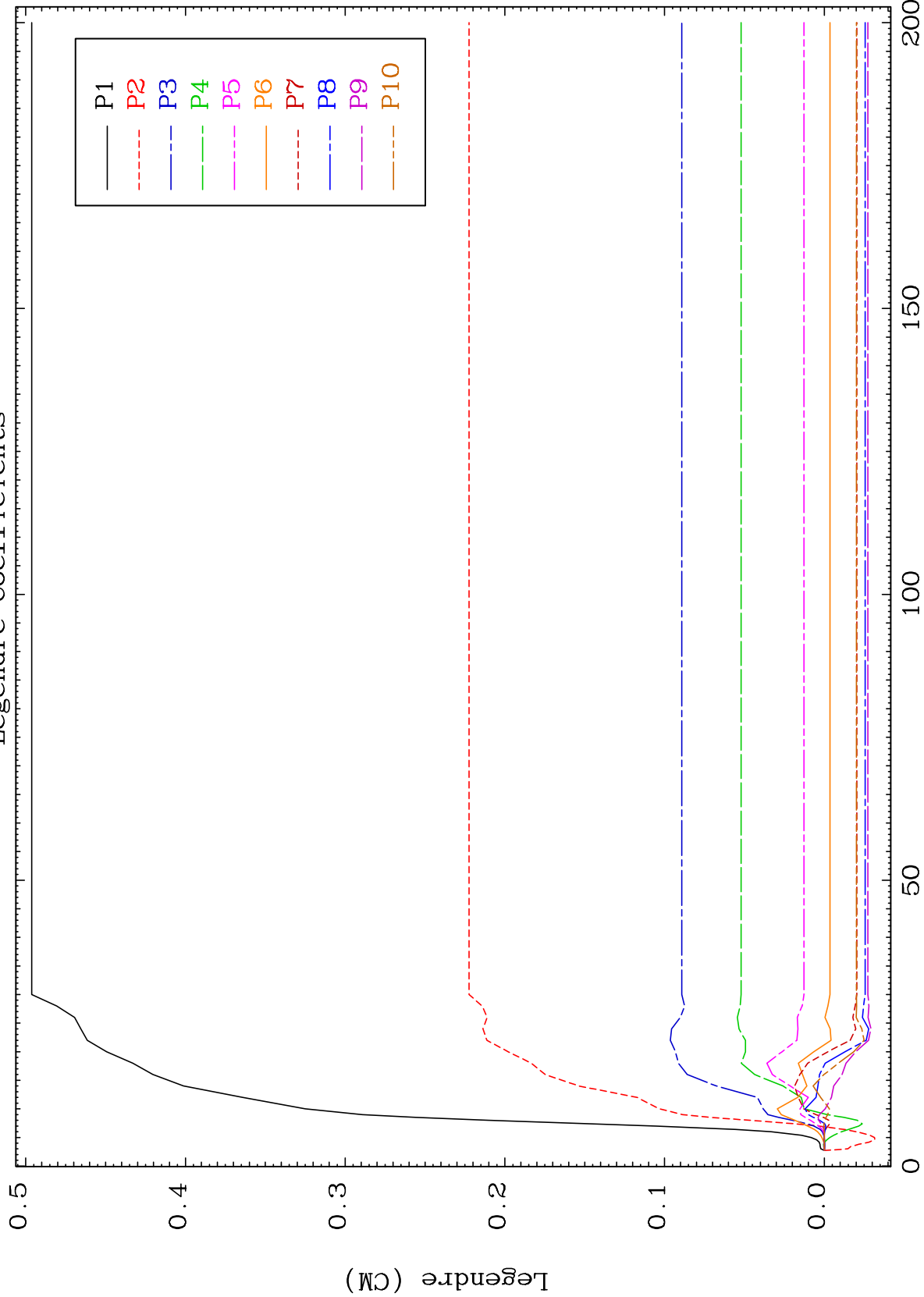
Incident Energy (MeV)

82-Pb-210

MAT 8243

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

82-Pb-210



74

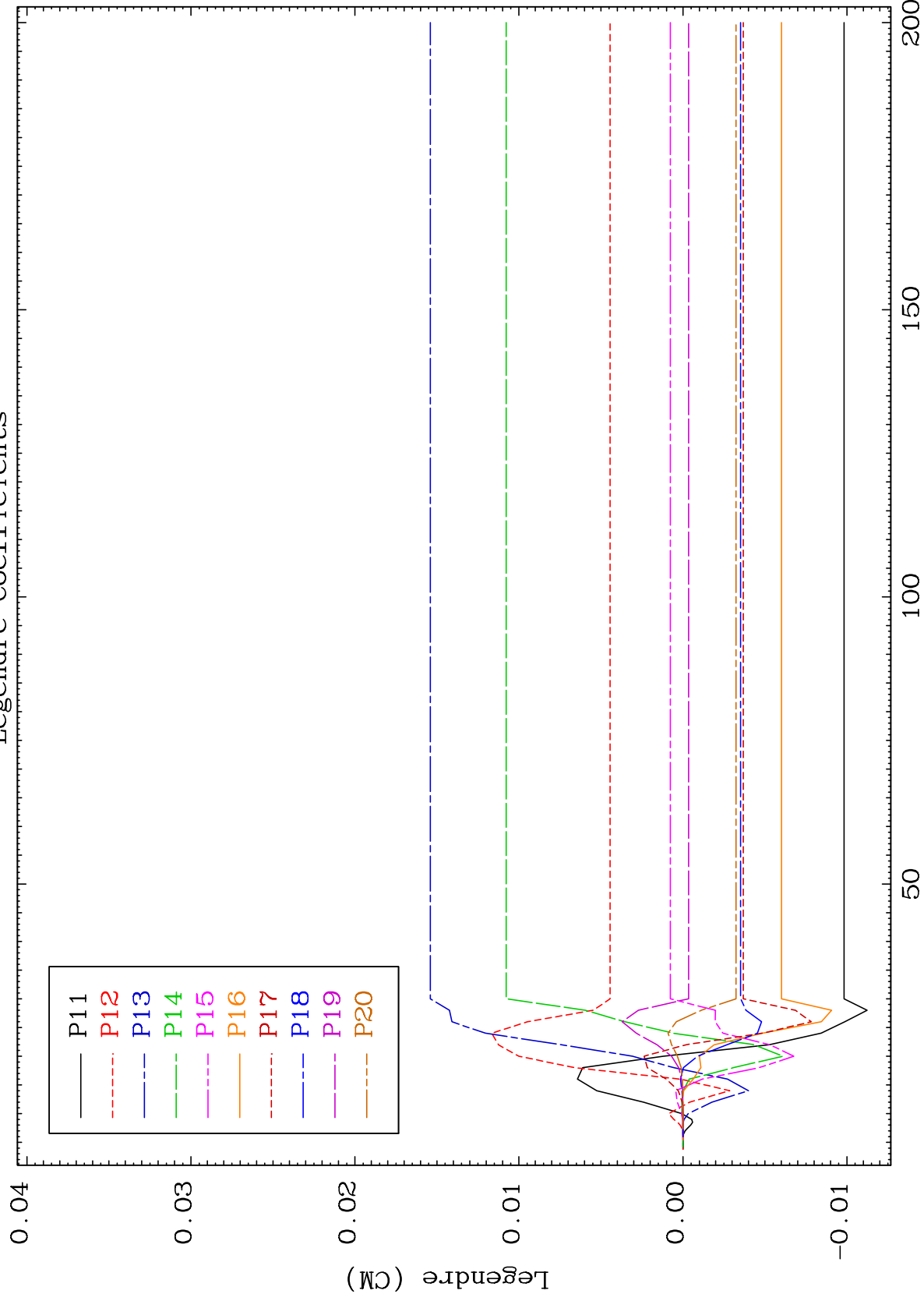
Incident Energy (MeV)

82-Pb-210

MAT 8243

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

82-Pb-210



75

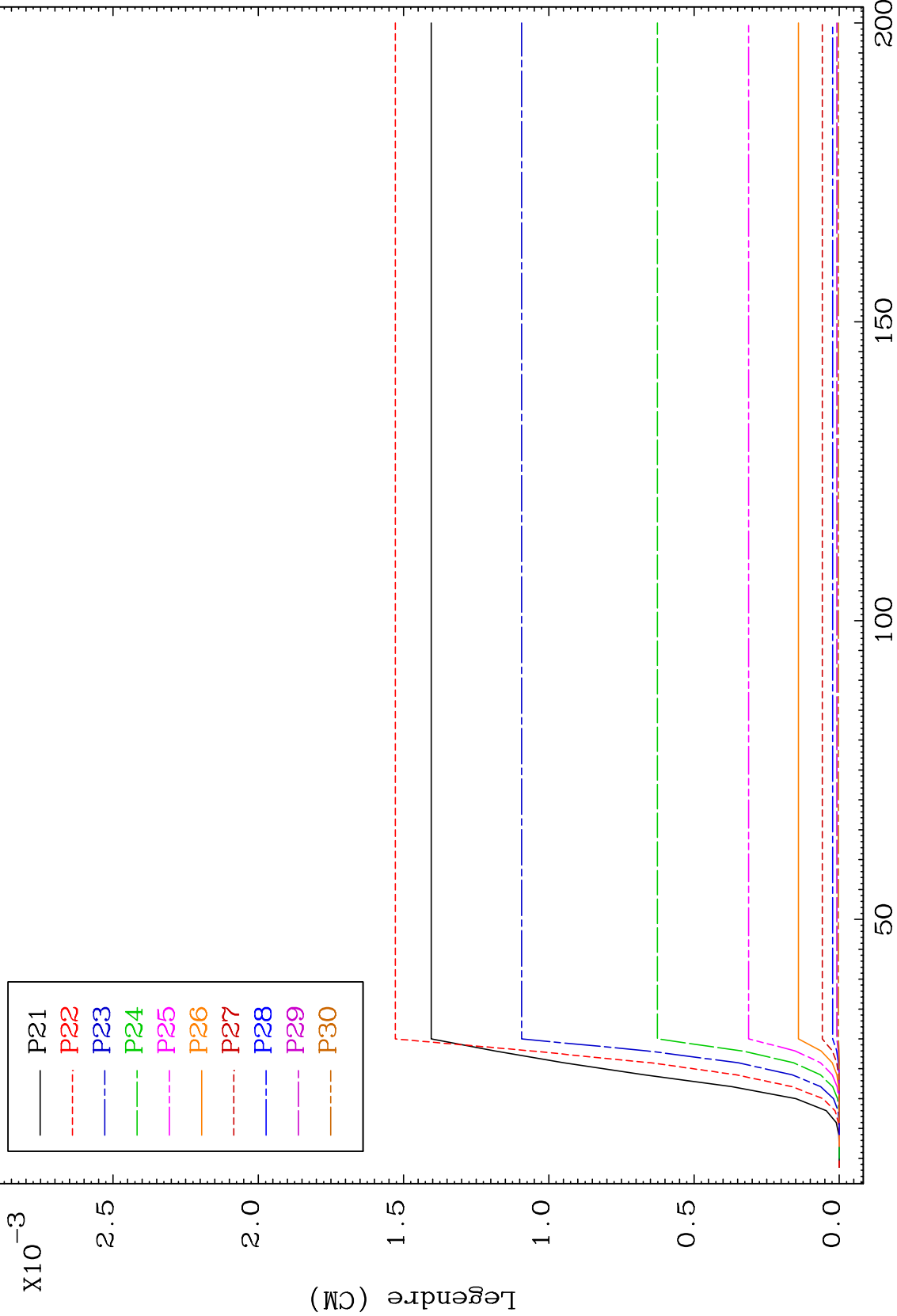
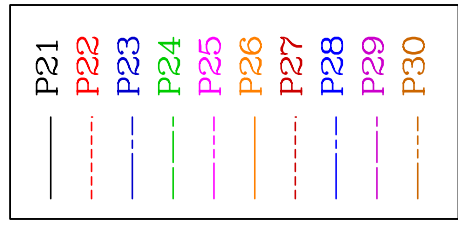
Incident Energy (MeV)

82-Pb-210

MAT 8243

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

82-Pb-210



76

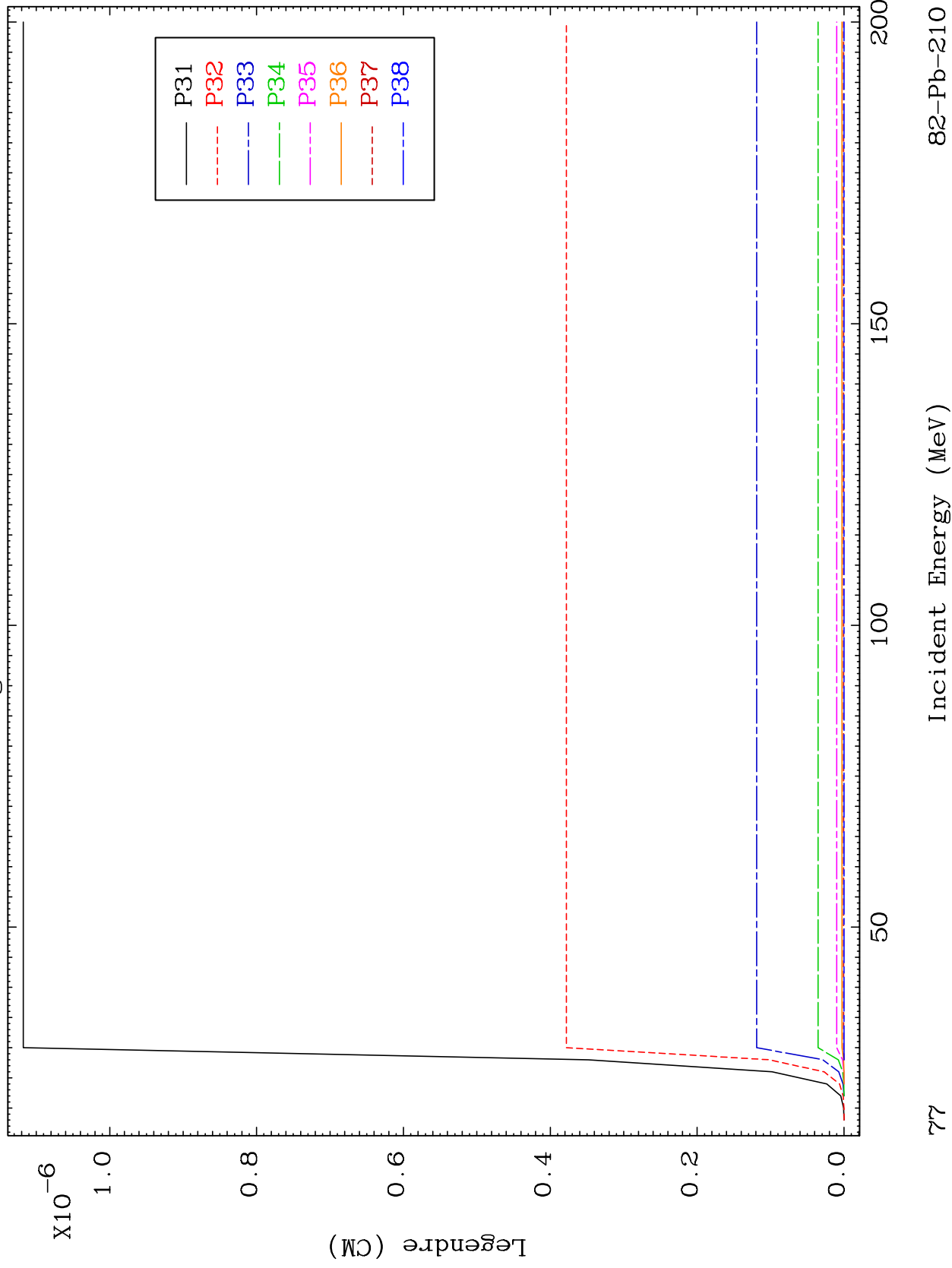
Incident Energy (MeV)

82-Pb-210

MAT 8243

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

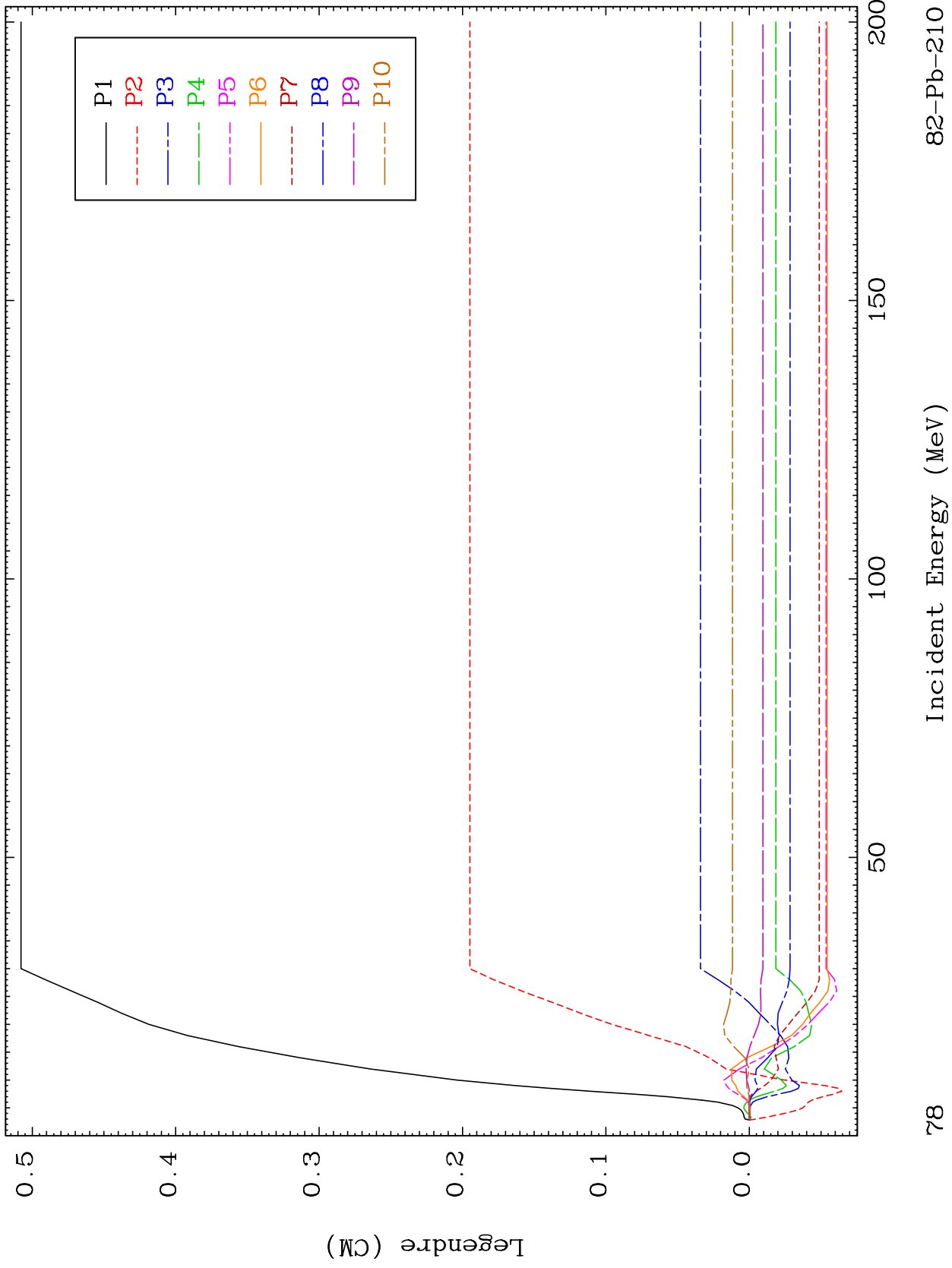
82-Pb-210



MAT 8243

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

82-Pb-210



78

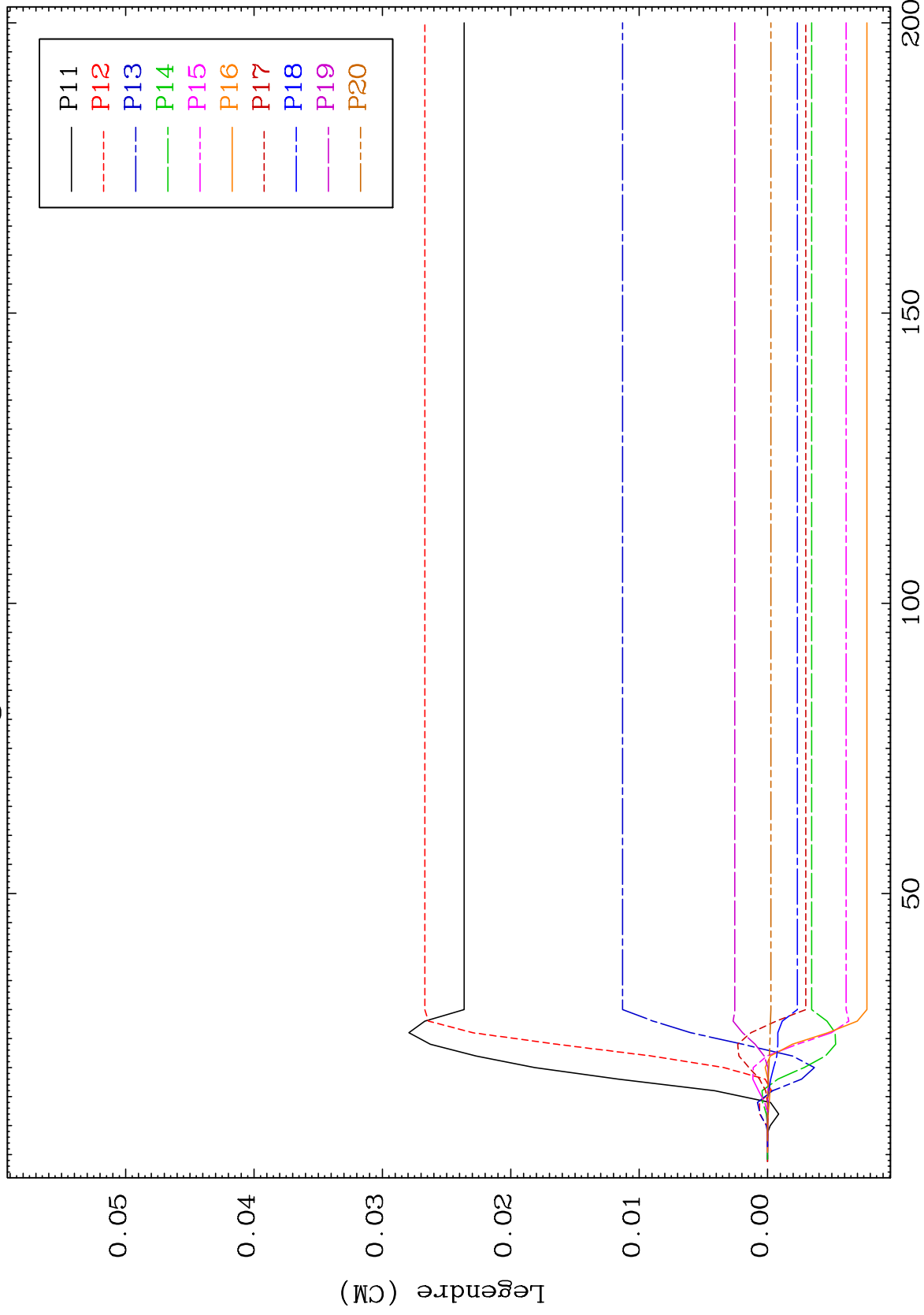
Incident Energy (MeV)

82-Pb-210

MAT 8243

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

82-Pb-210



79

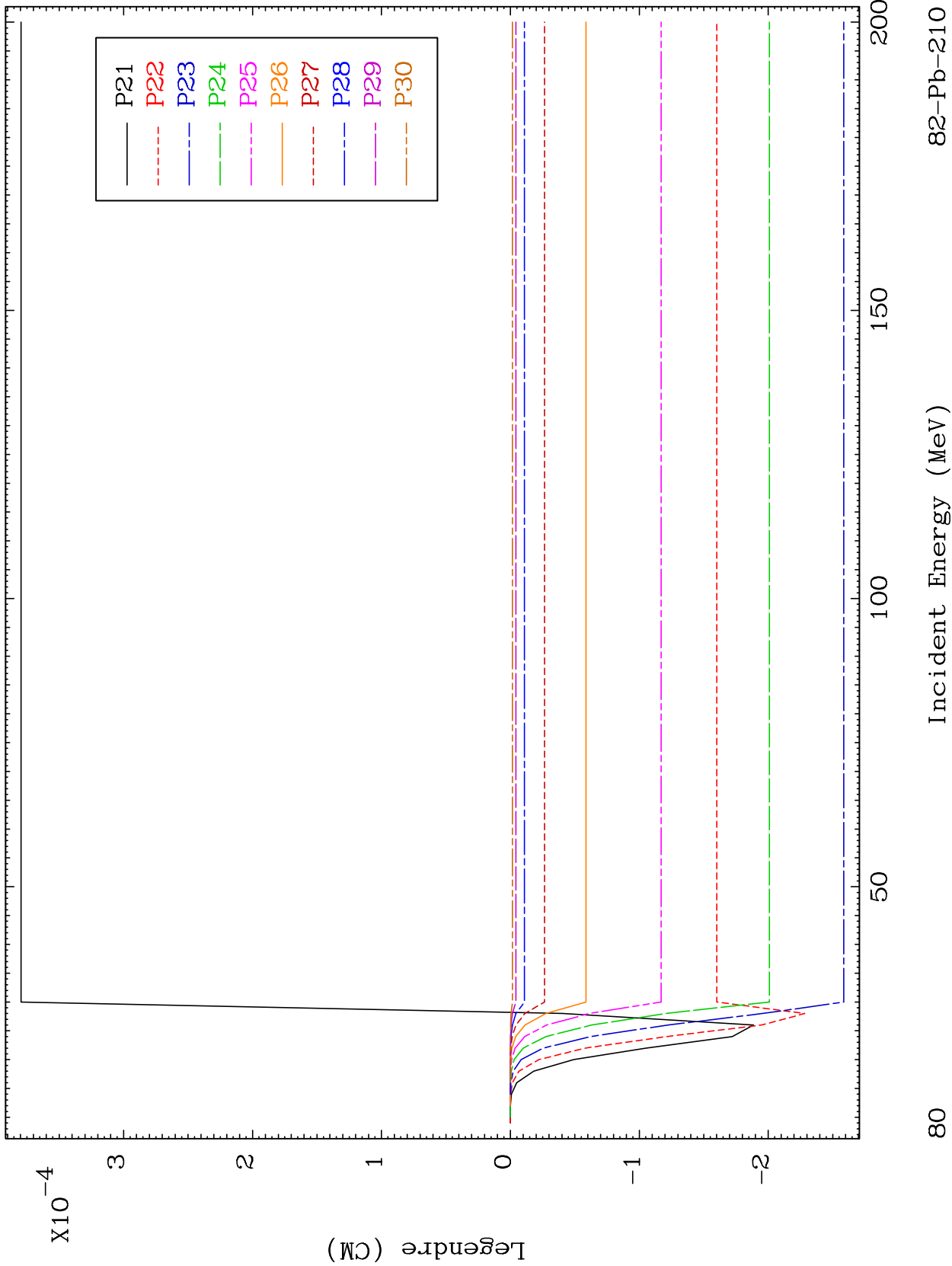
Incident Energy (MeV)

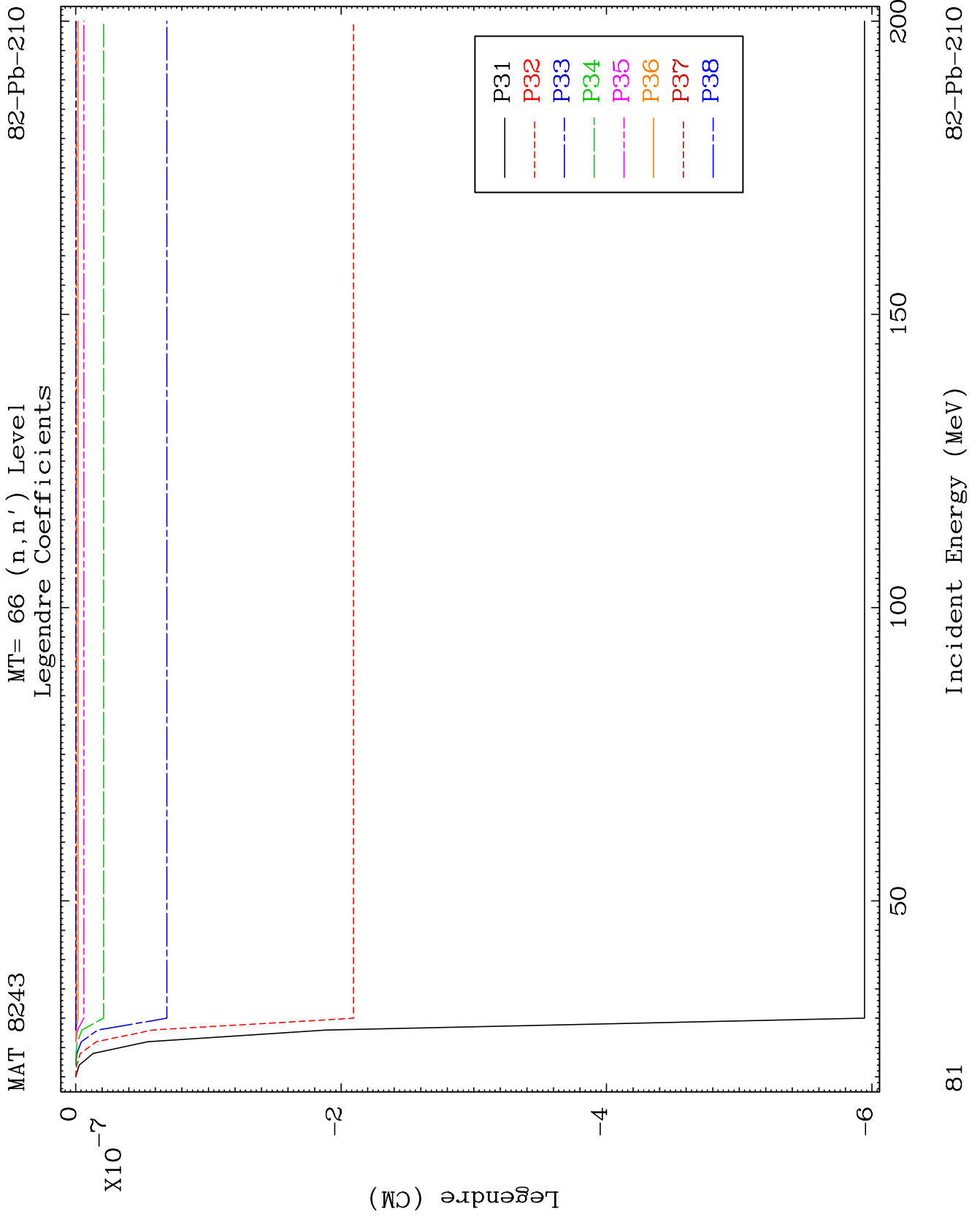
82-Pb-210

MAT 8243

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

82-Pb-210

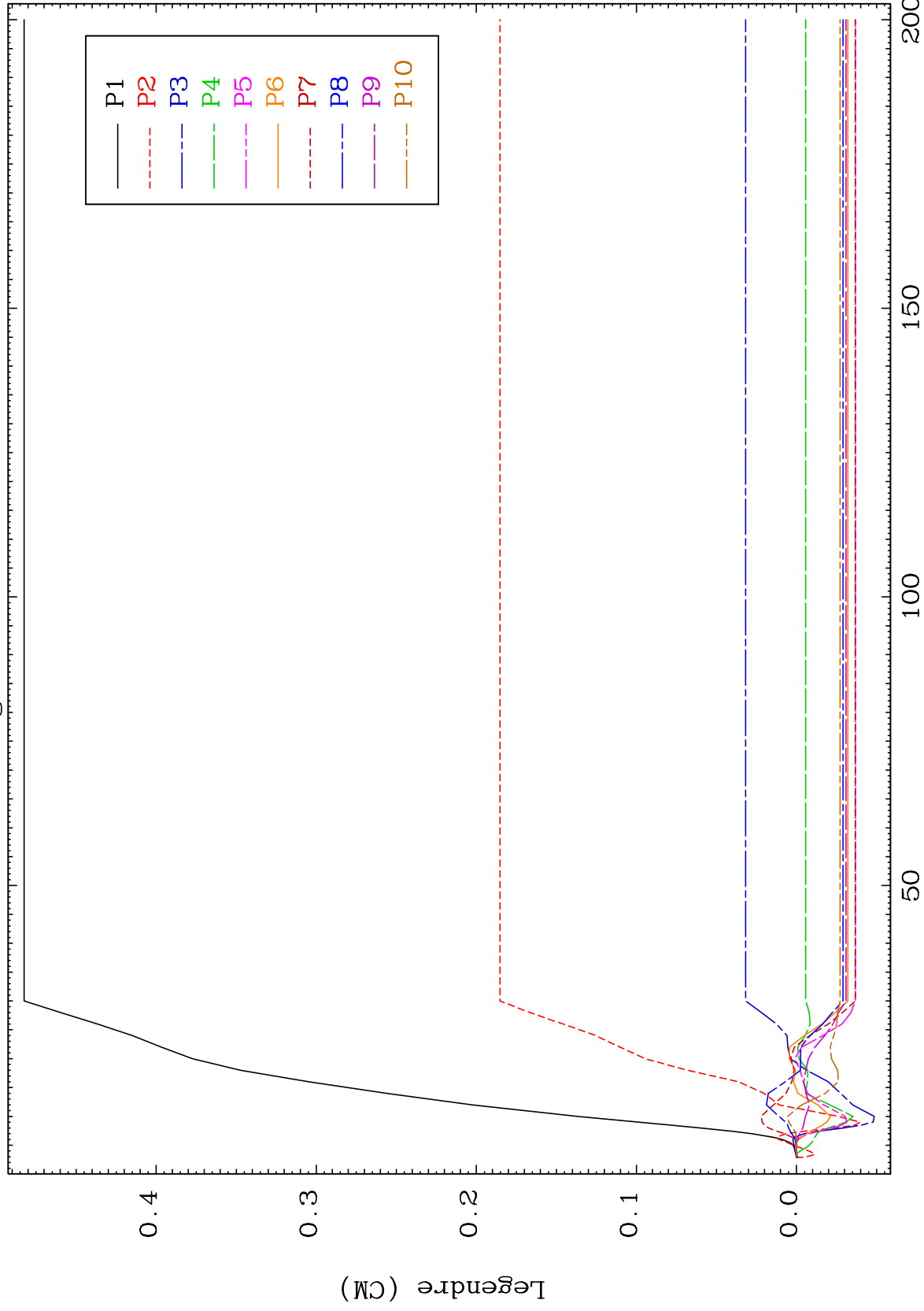




MAT 8243

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

82-Pb-210



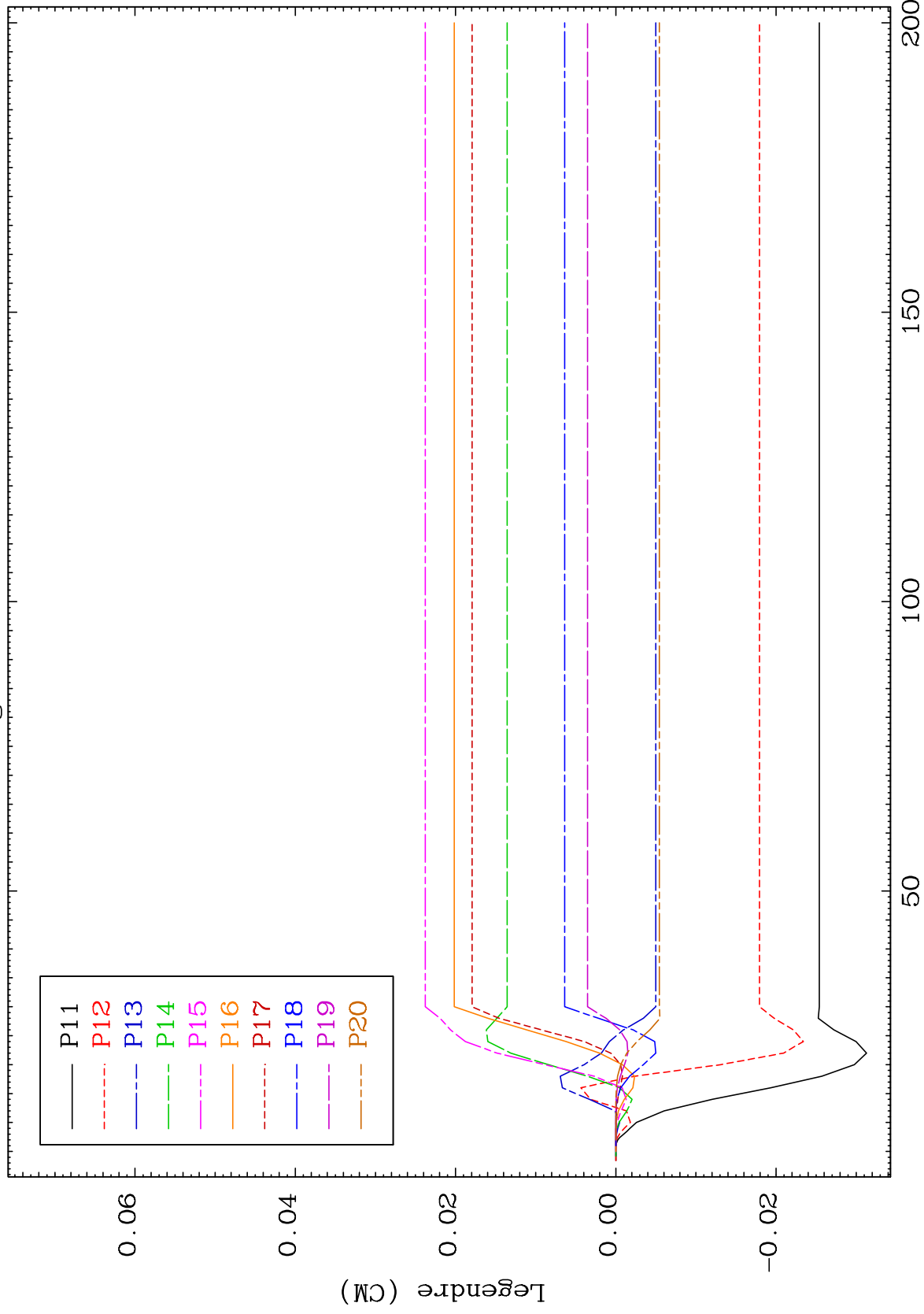
82

82-Pb-210

MAT 8243

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

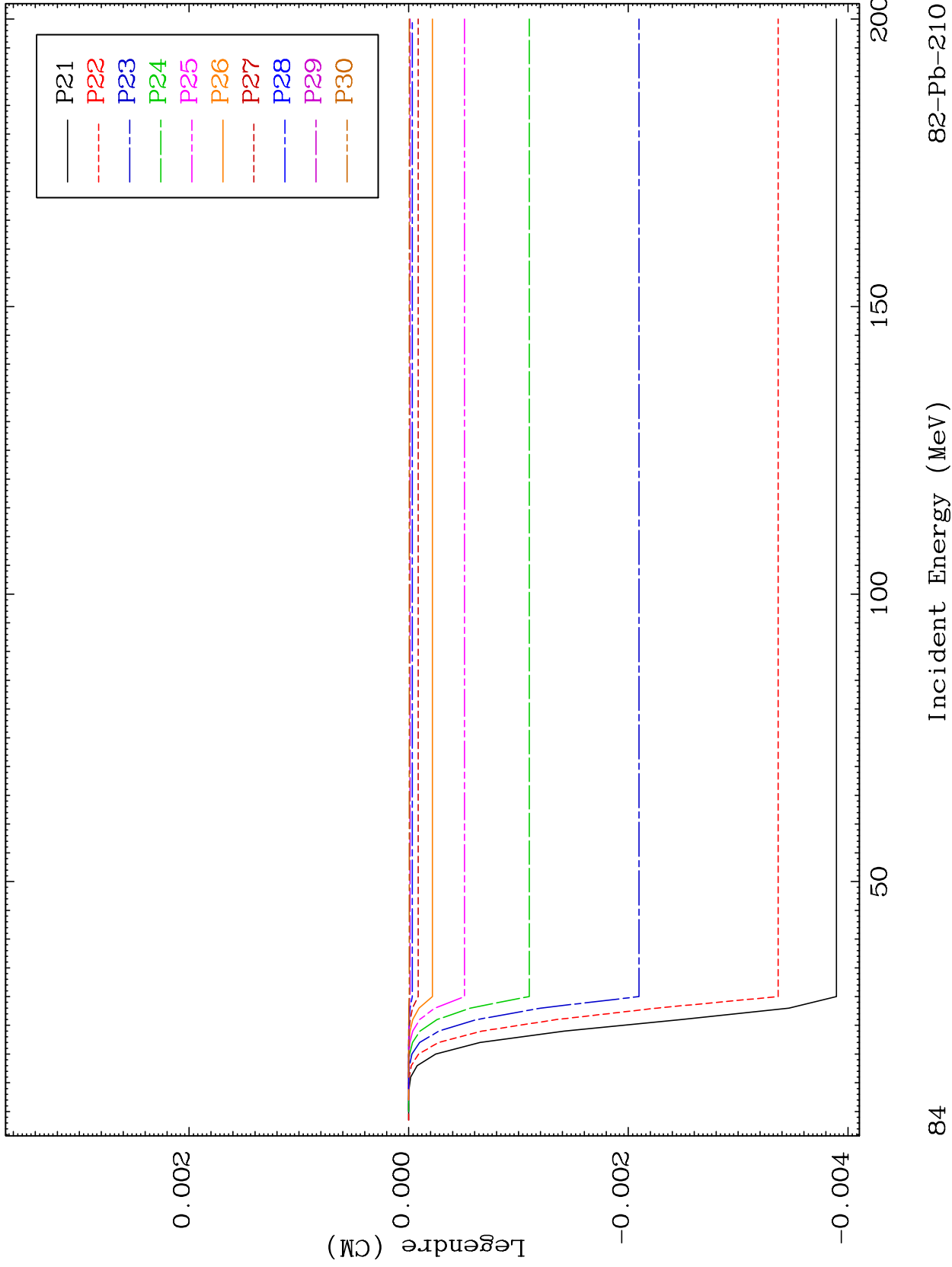
82-Pb-210



MAT 8243

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

82-Pb-210



84

Incident Energy (MeV)

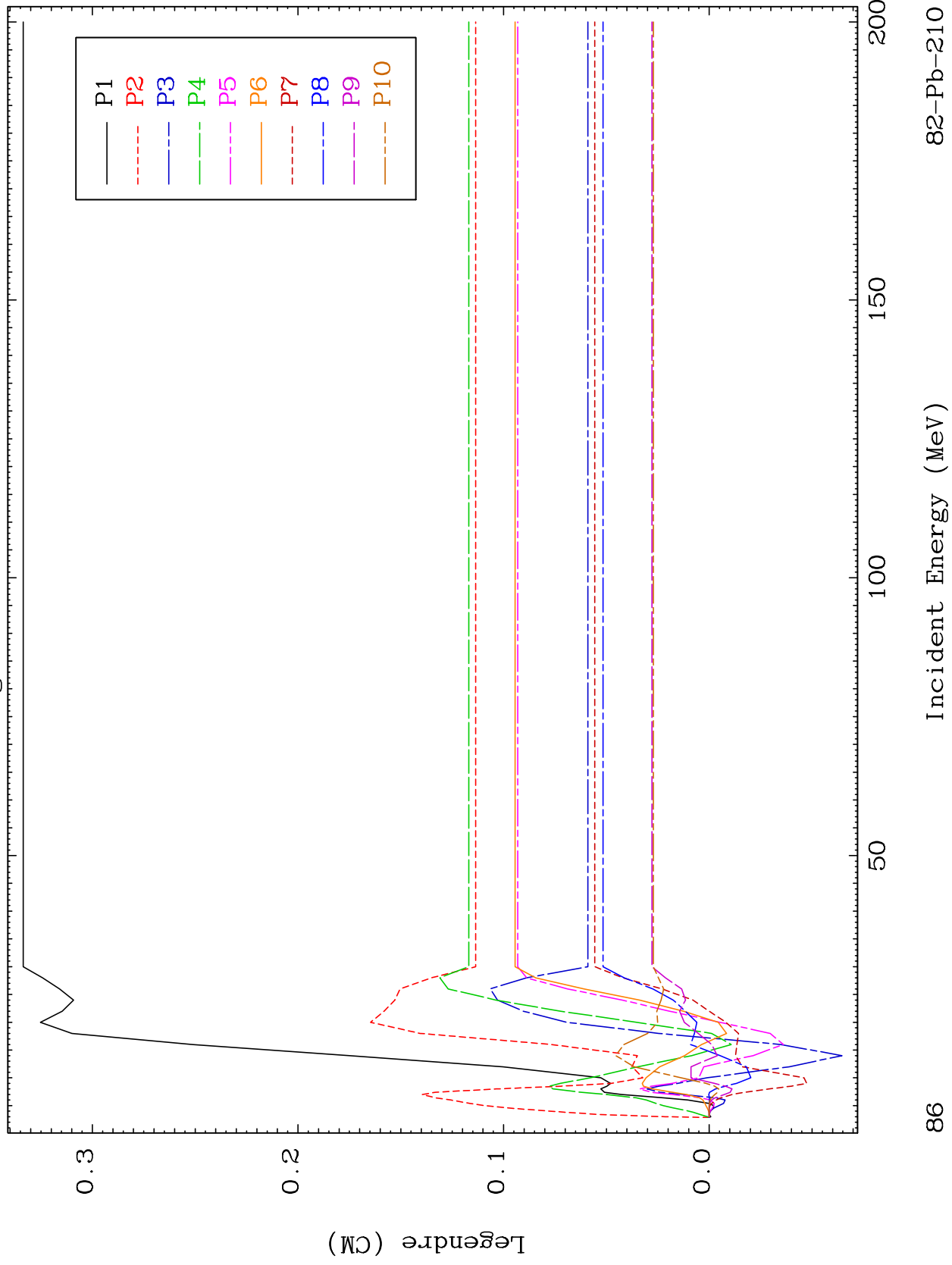
82-Pb-210



MAT 8243

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

82-Pb-210



86

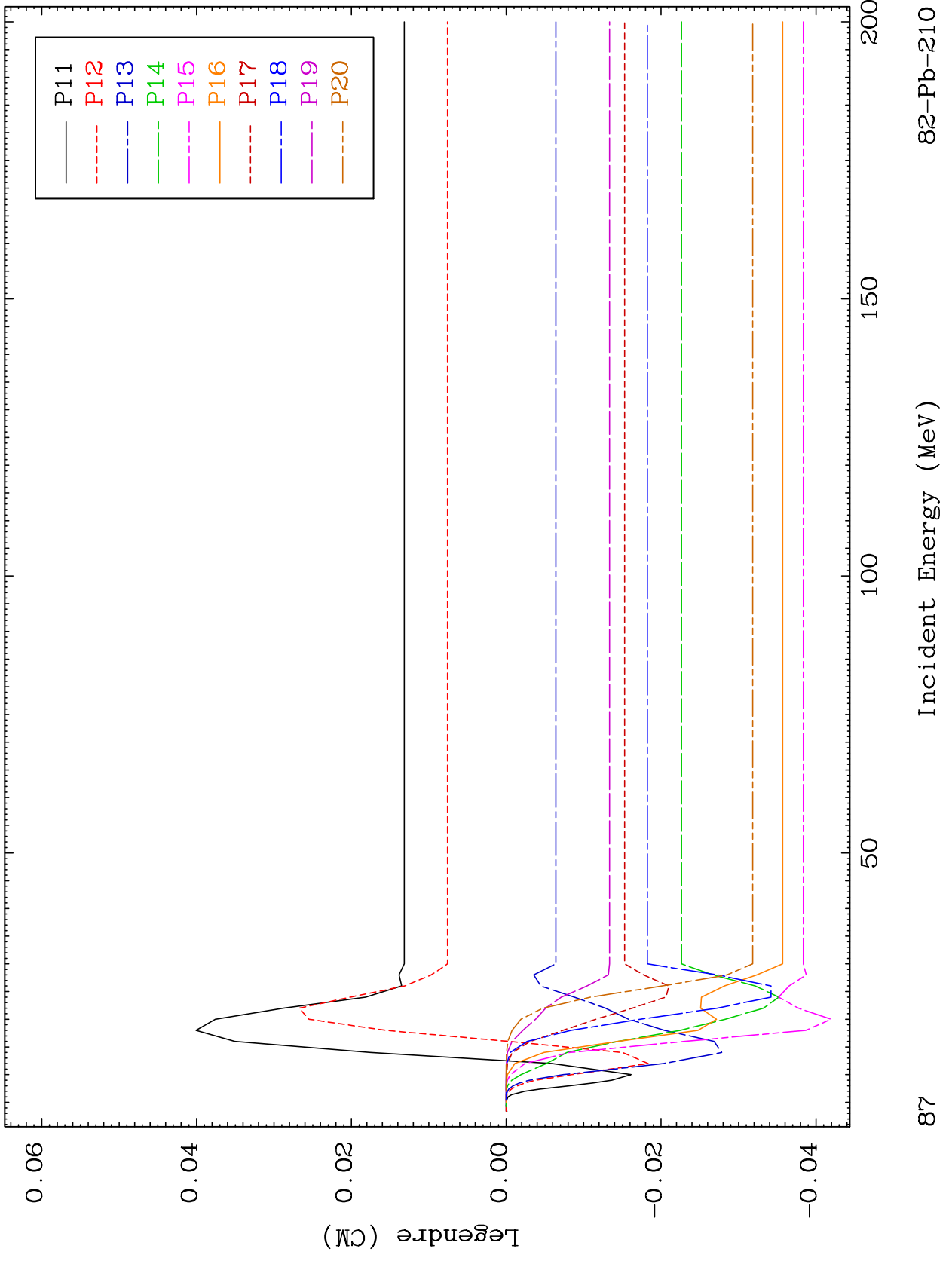
Incident Energy (MeV)

82-Pb-210

MAT 8243

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

82-Pb-210



87

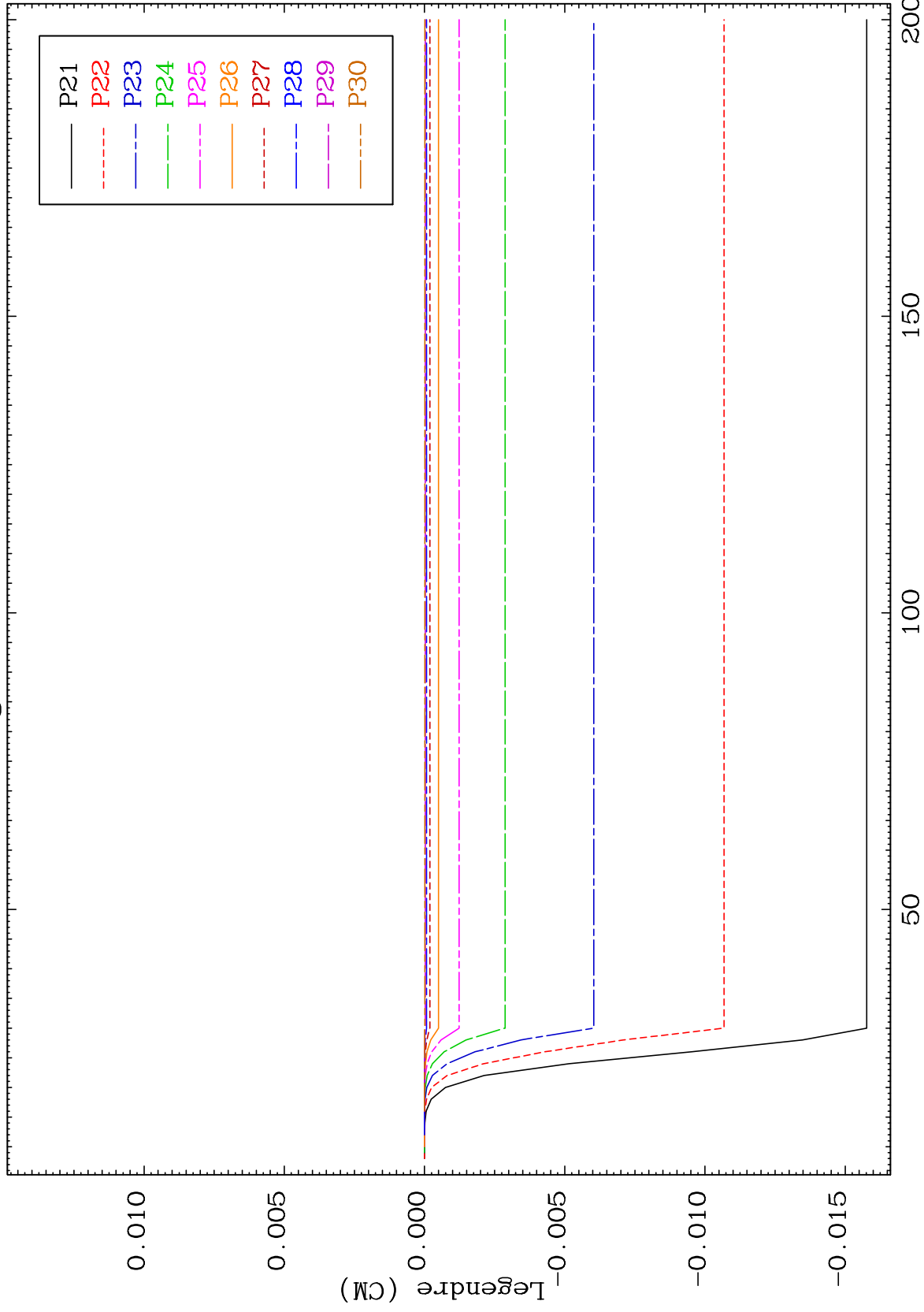
Incident Energy (MeV)

82-Pb-210

MAT 8243

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

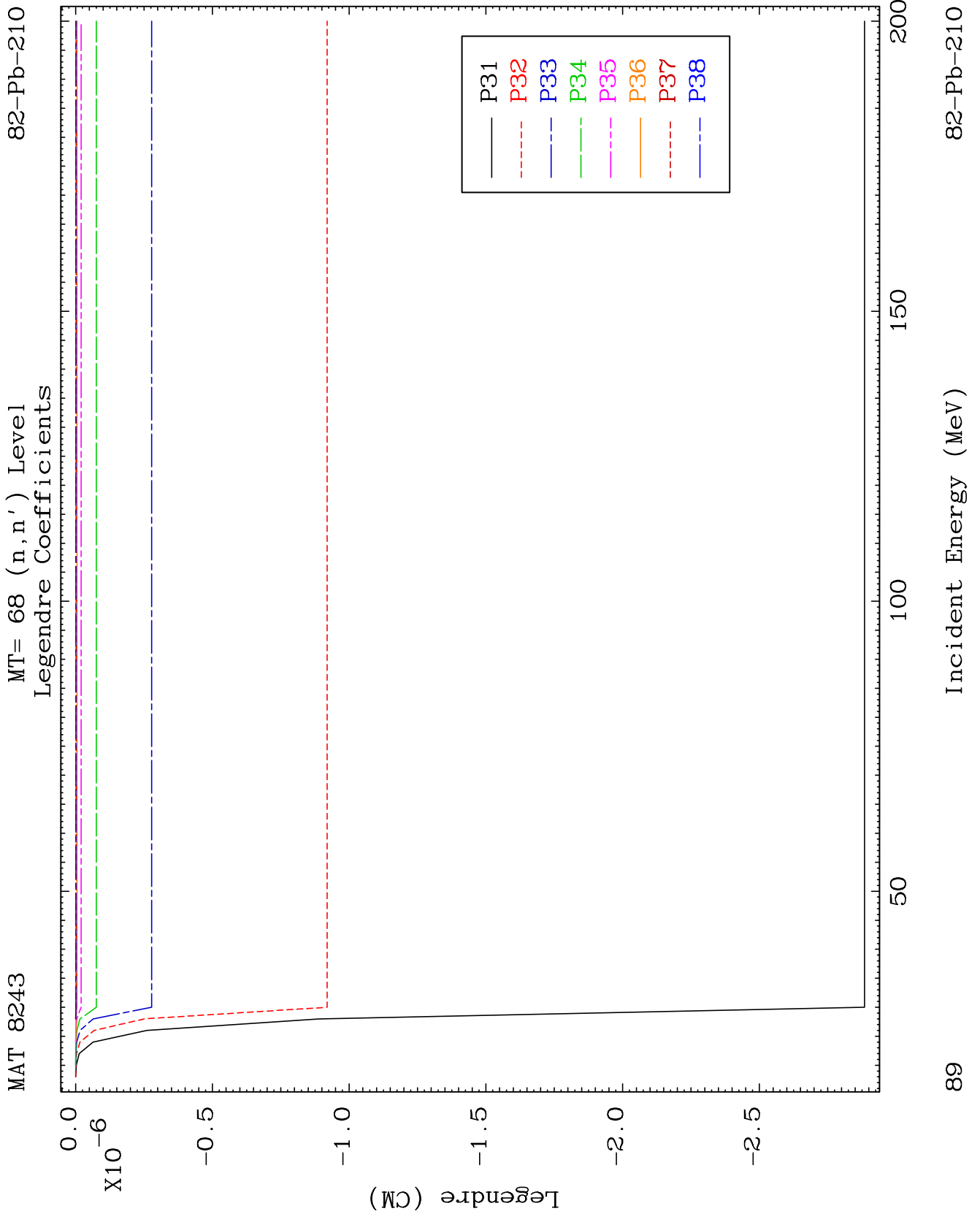
82-Pb-210



88

Incident Energy (MeV)

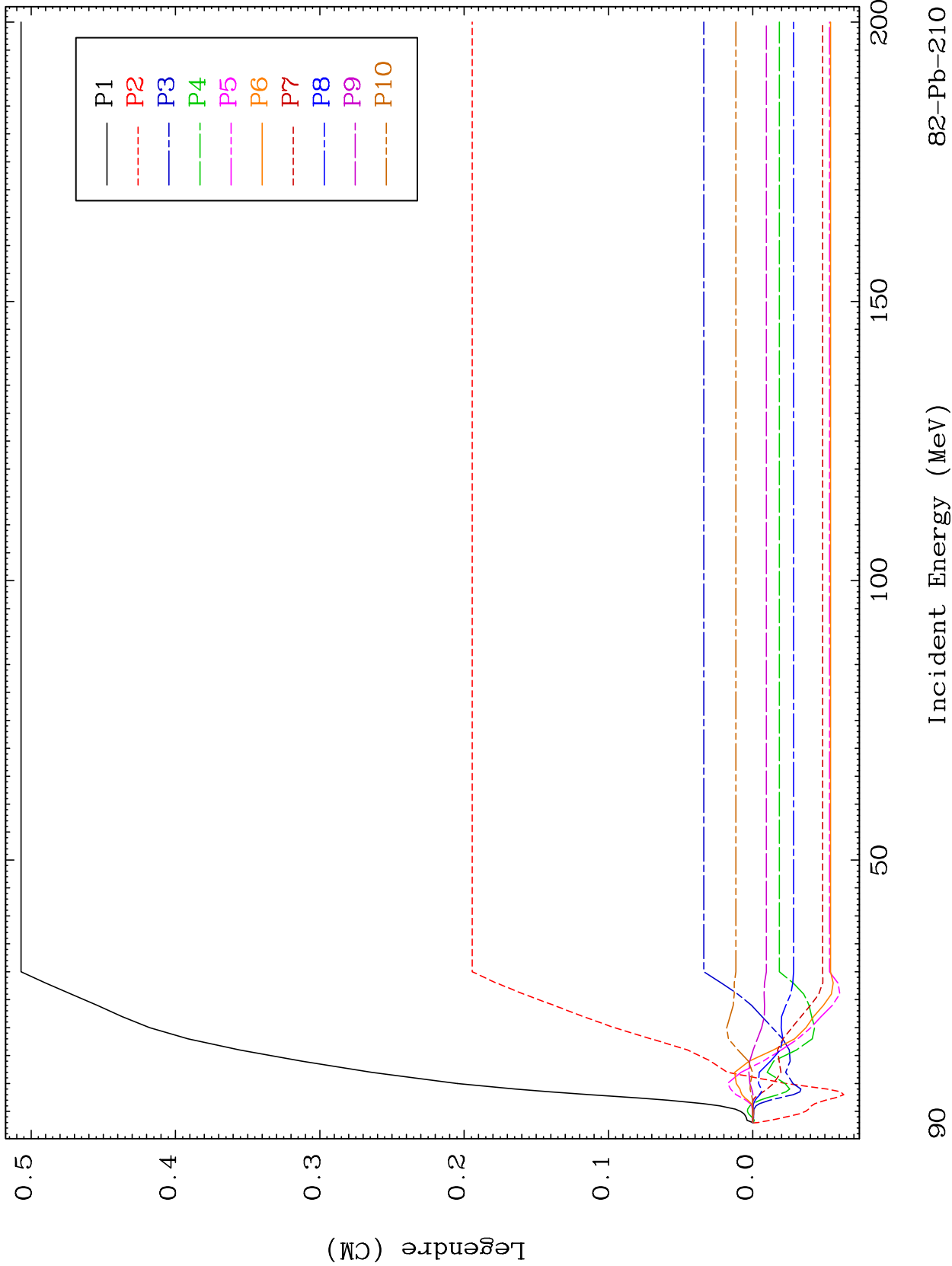
82-Pb-210



MAT 8243

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

82-Pb-210



90

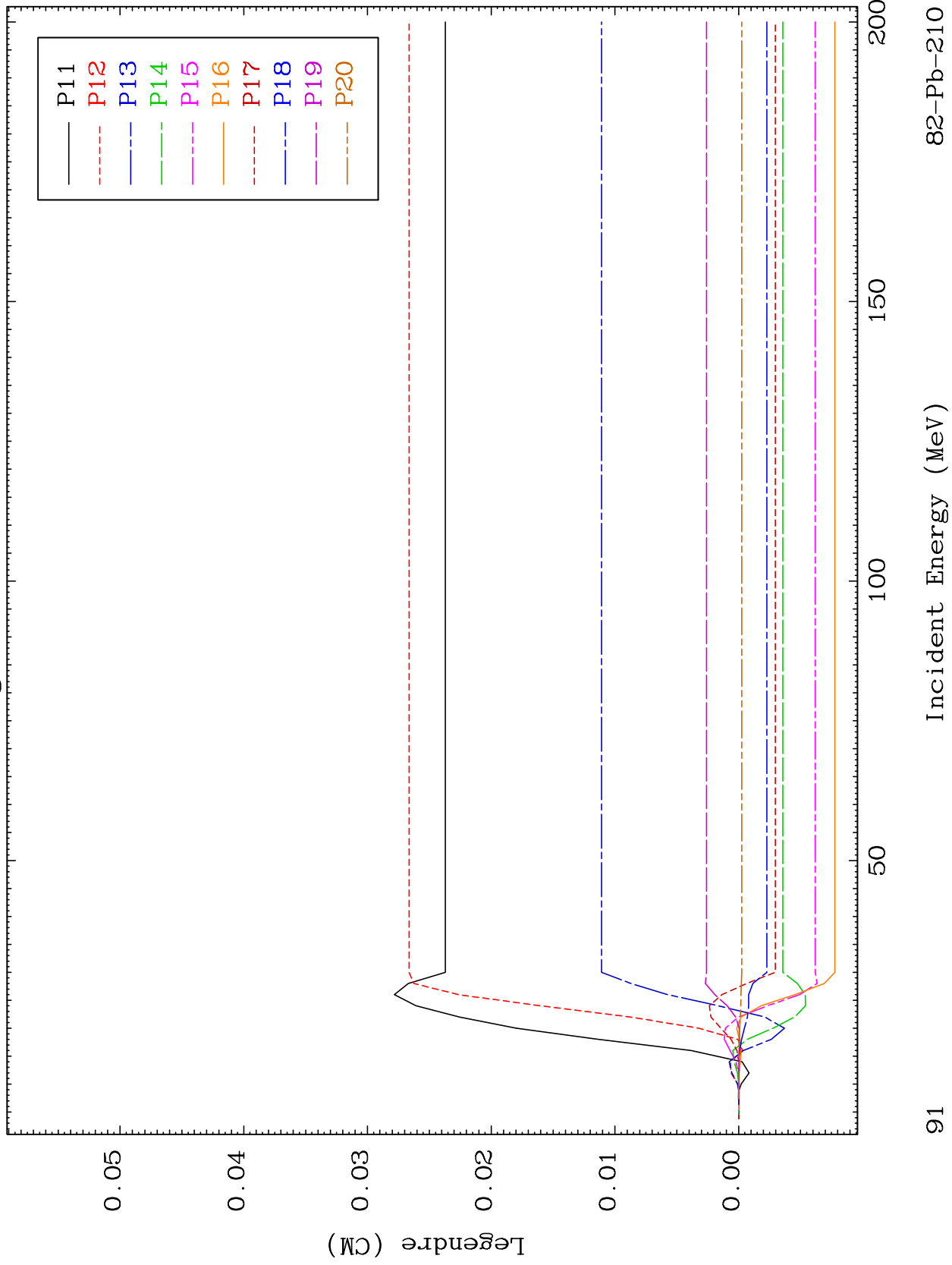
Incident Energy (MeV)

82-Pb-210

MAT 8243

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

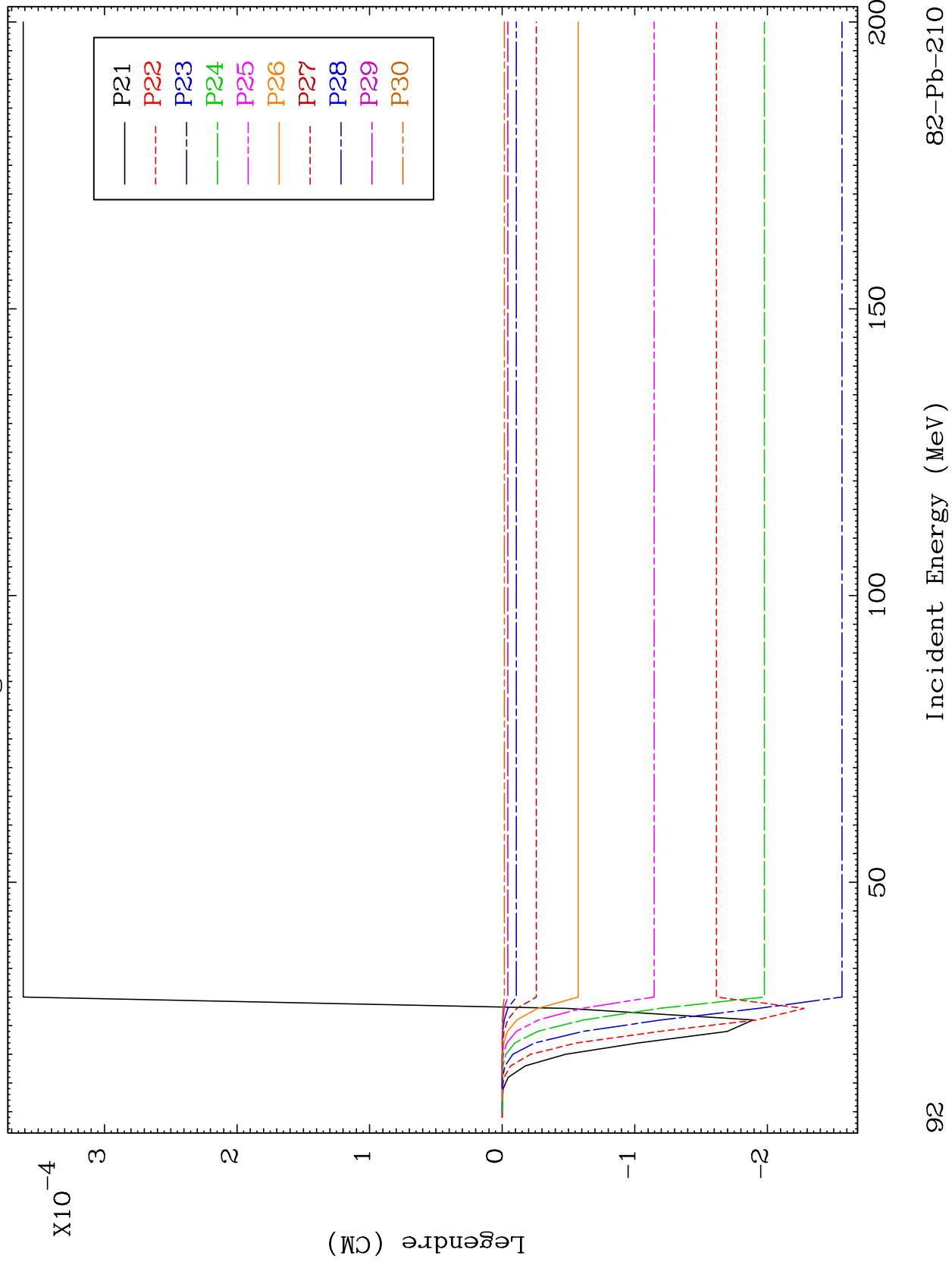
82-Pb-210



MAT 8243

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

82-Pb-210

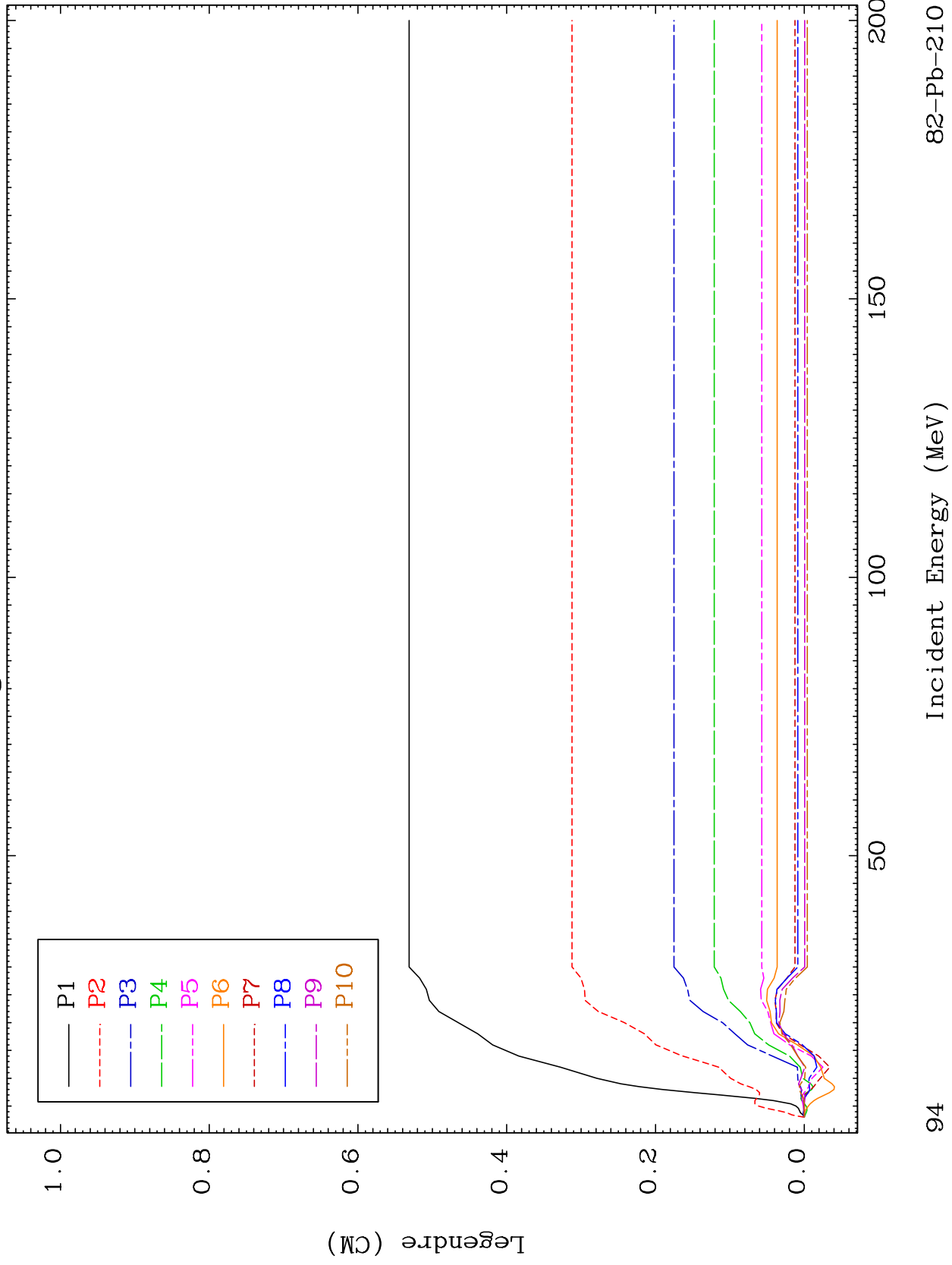




MAT 8243

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

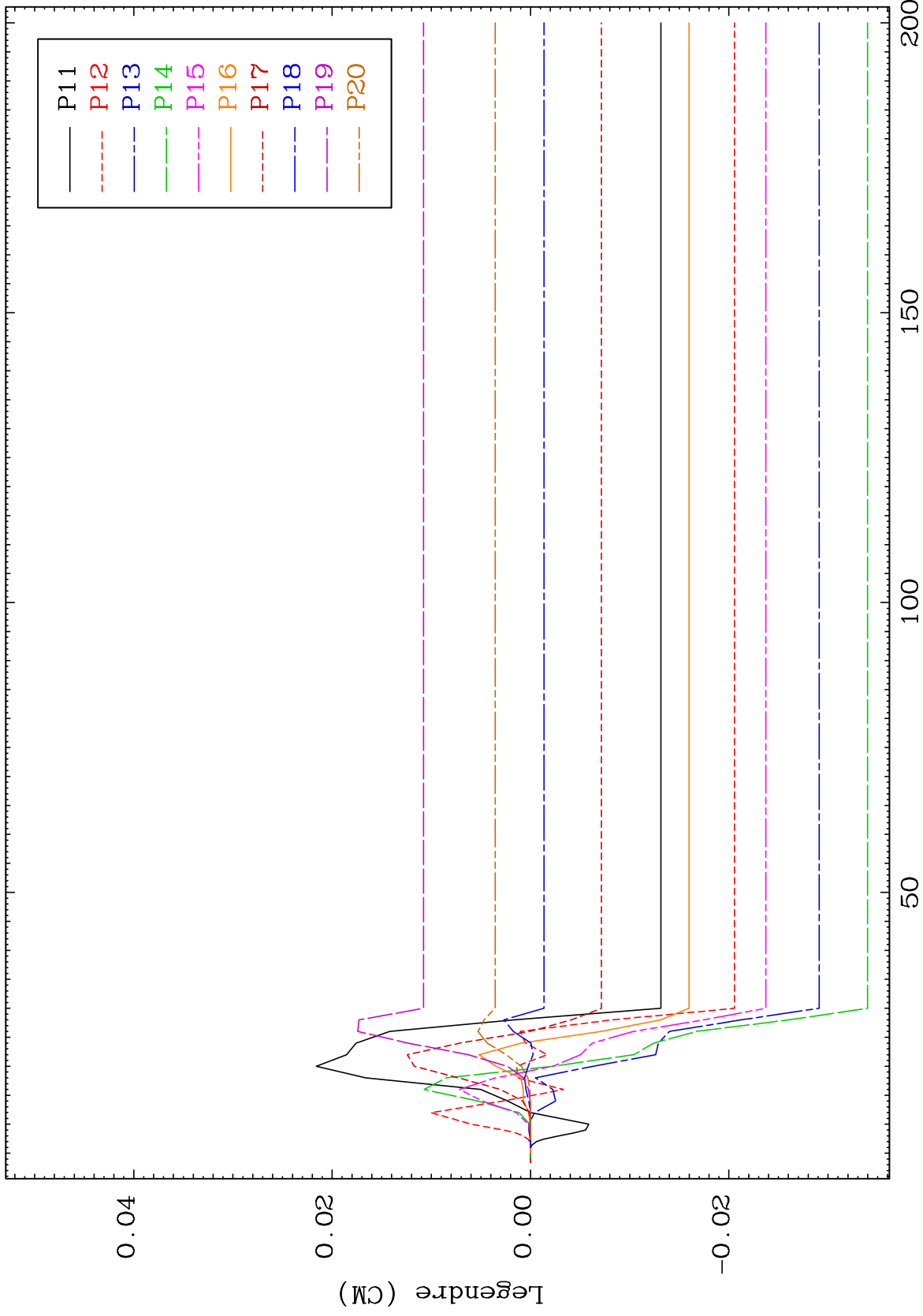
82-Pb-210



MAT 8243

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

82-Pb-210



95

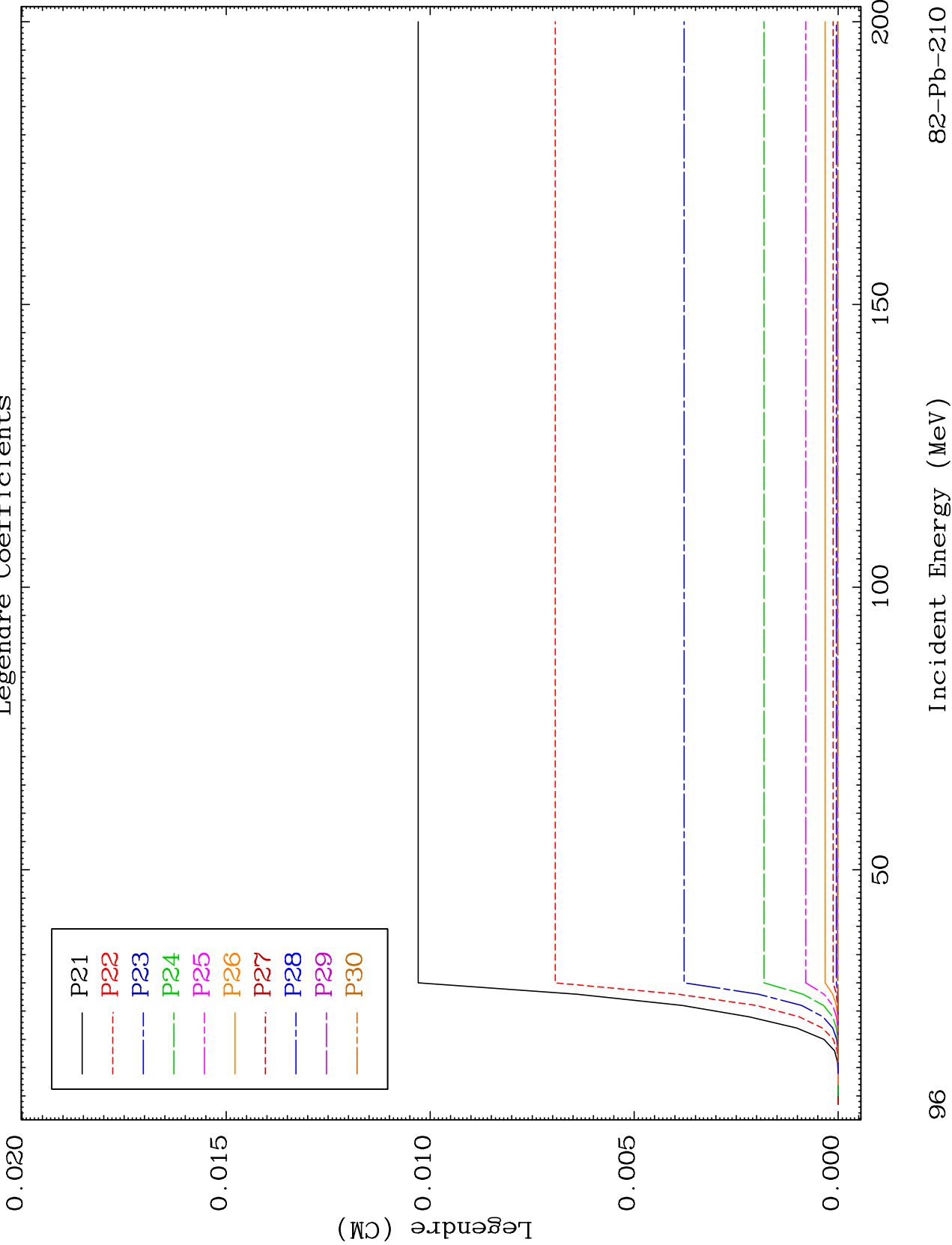
Incident Energy (MeV)

82-Pb-210

MAT 8243

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

82-Pb-210



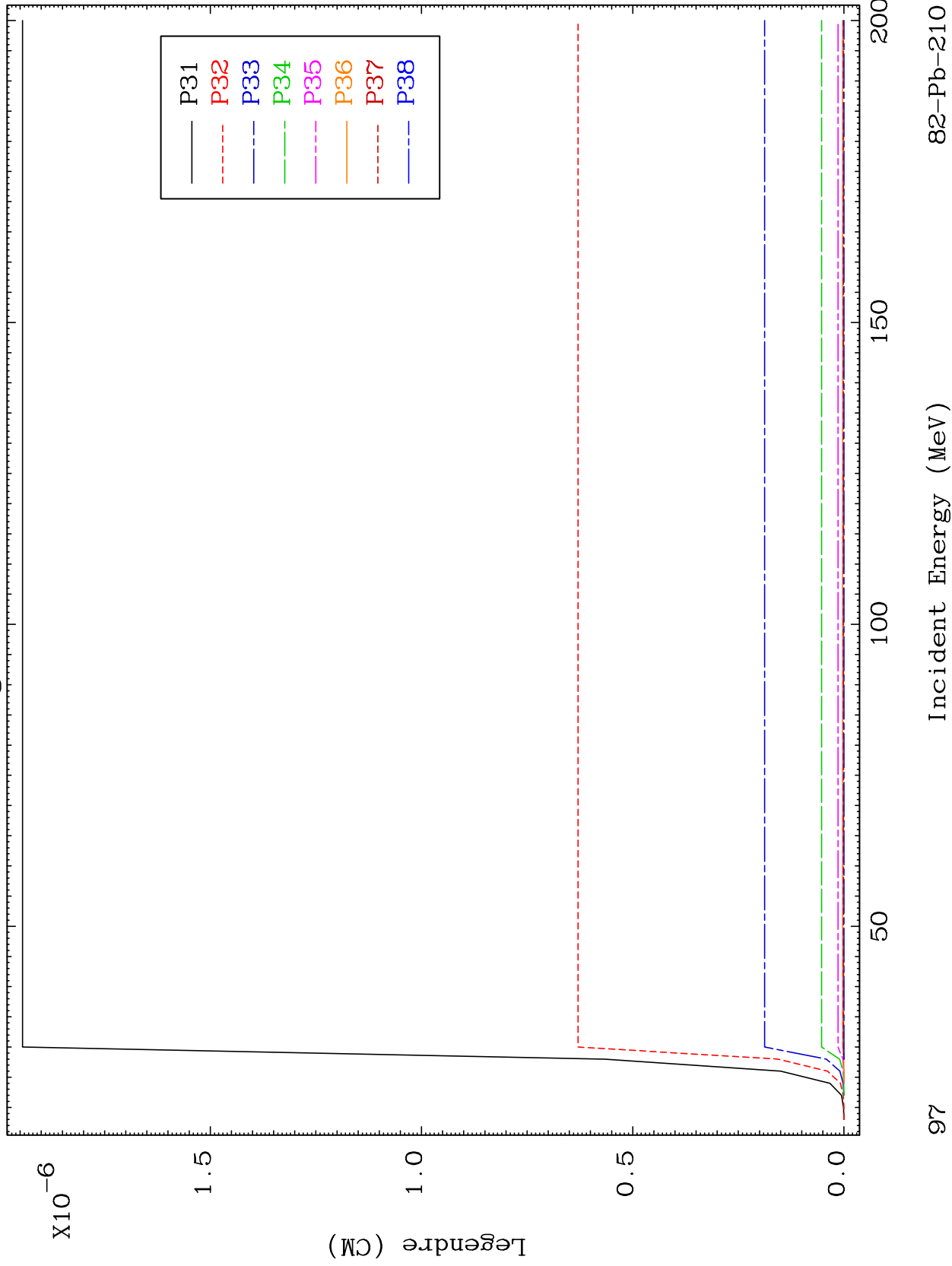
96

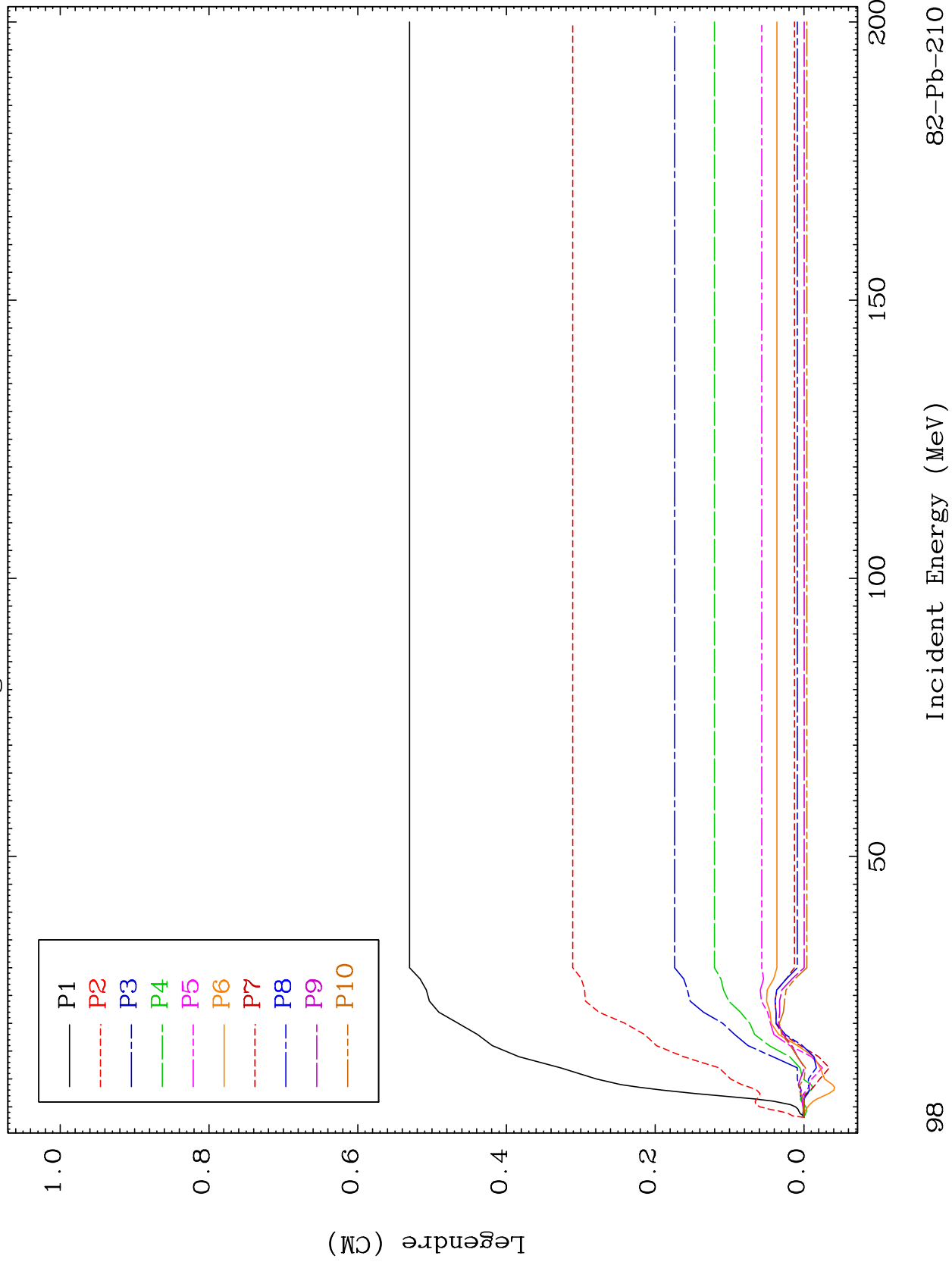
82-Pb-210

MAT 8243

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

82-Pb-210

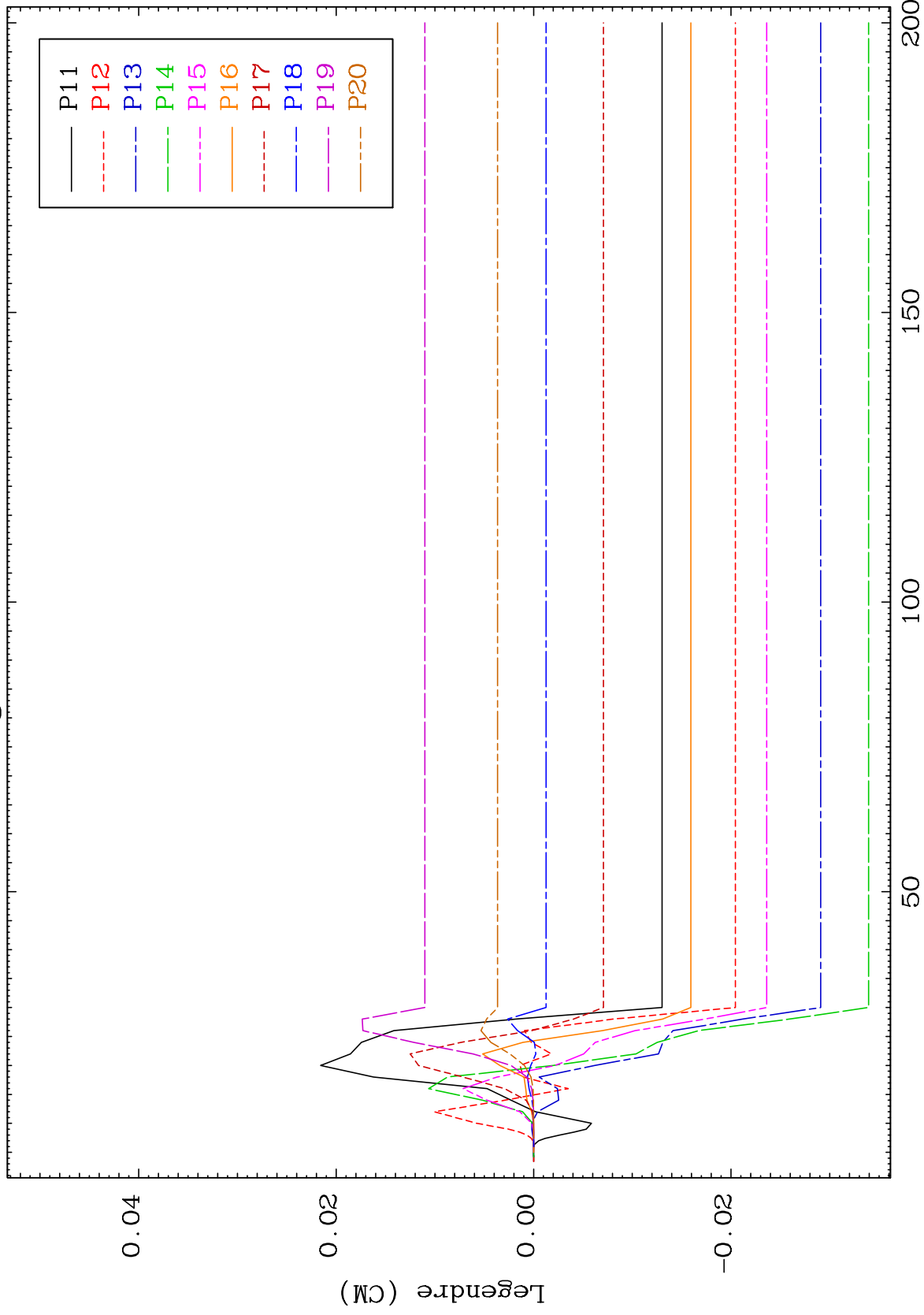




MAT 8243

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

82-Pb-210



99

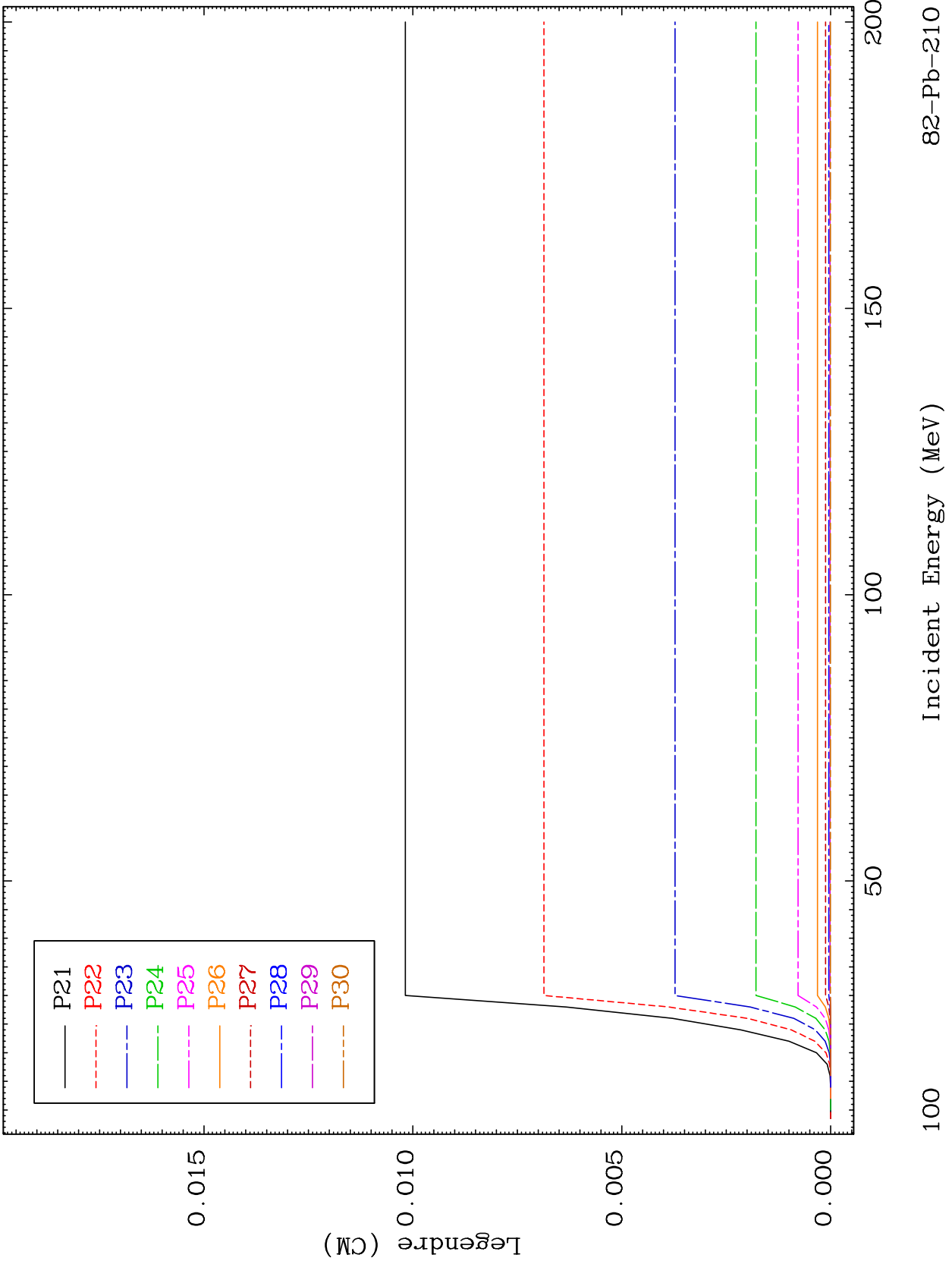
Incident Energy (MeV)

82-Pb-210

MAT 8243

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

82-Pb-210



82-Pb-210

Incident Energy (MeV)

100

50

100

150

200

0.015

0.010

0.005

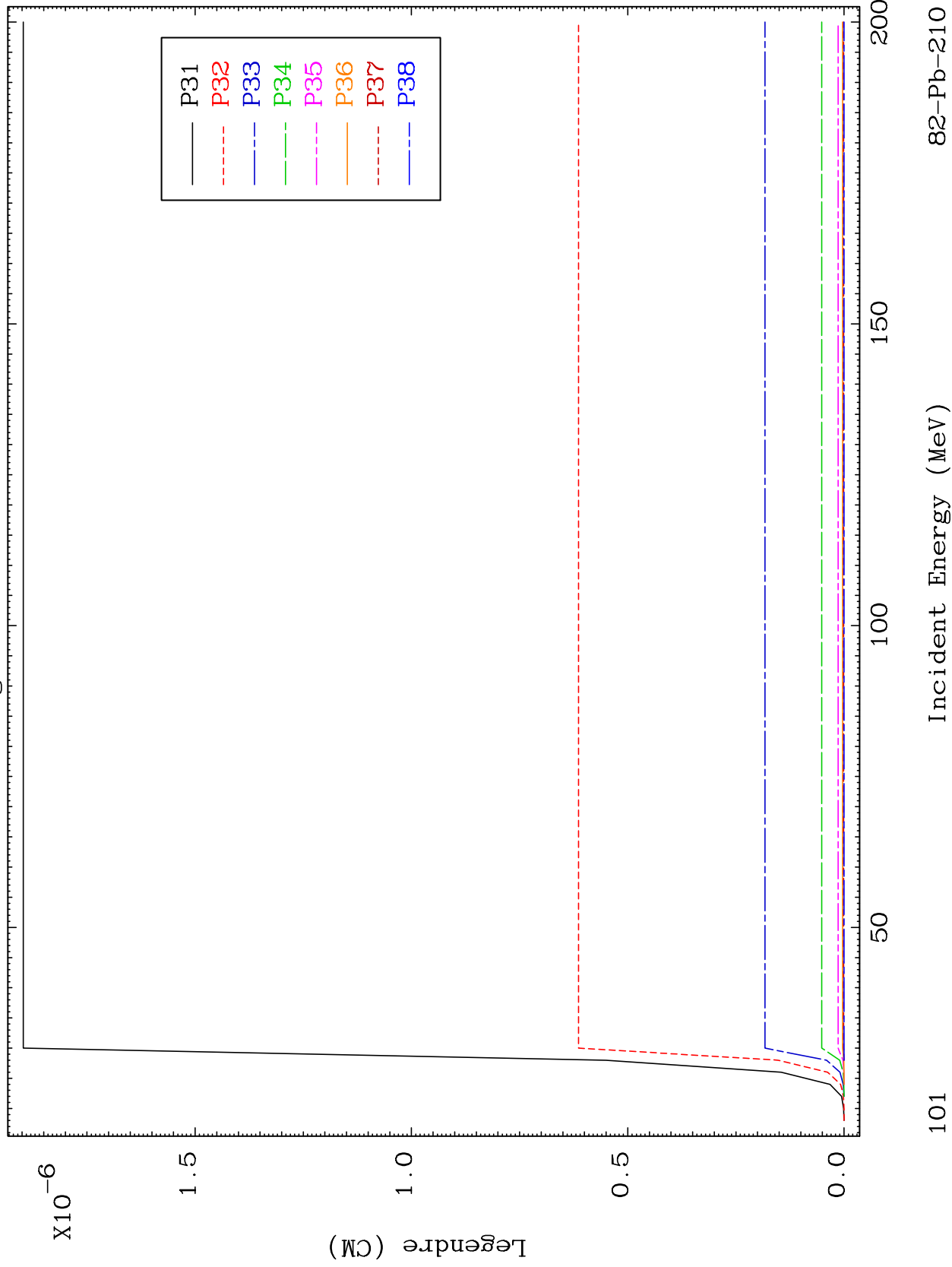
0.000

Legendre (CM)

MAT 8243

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

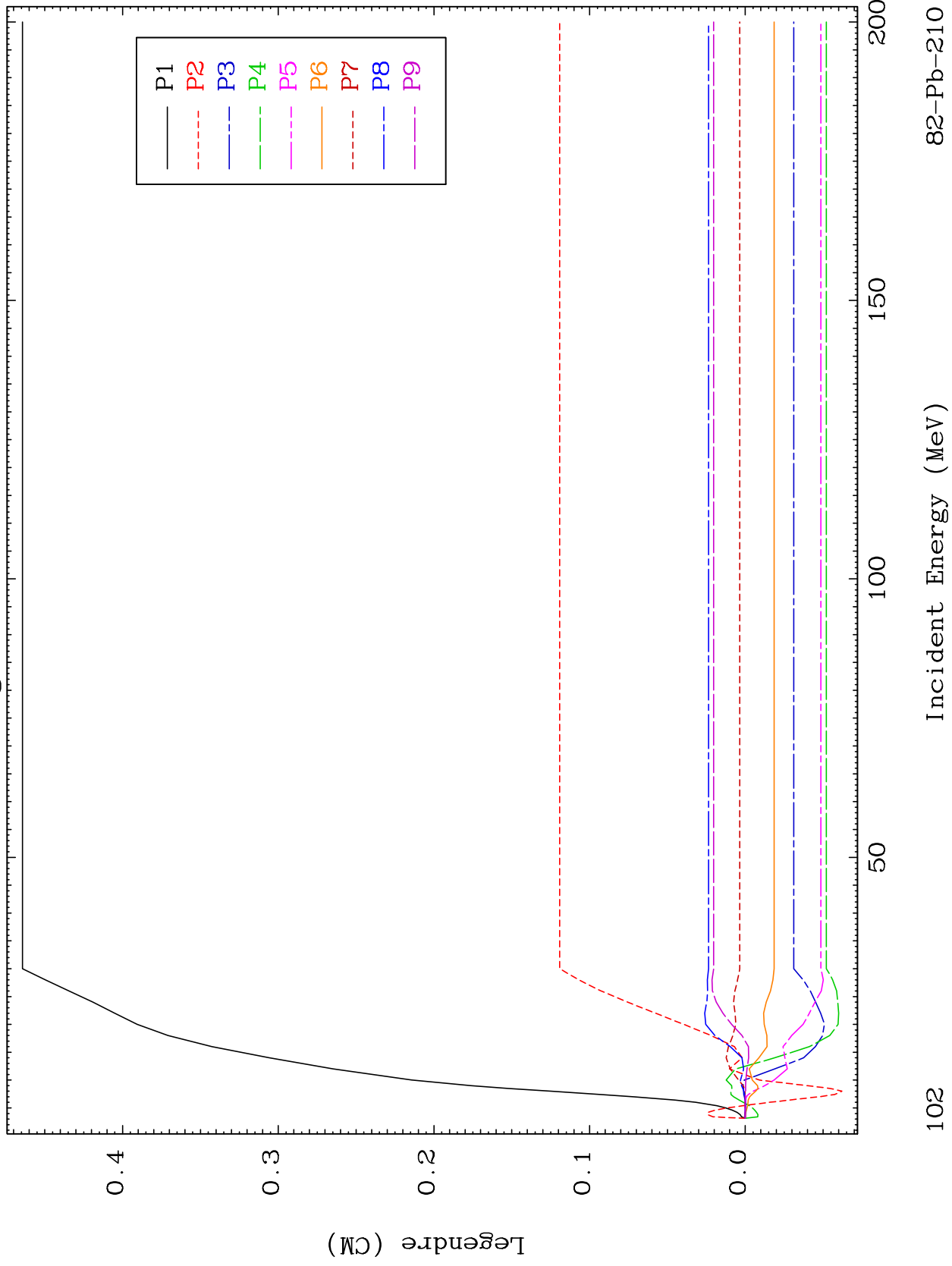
82-Pb-210



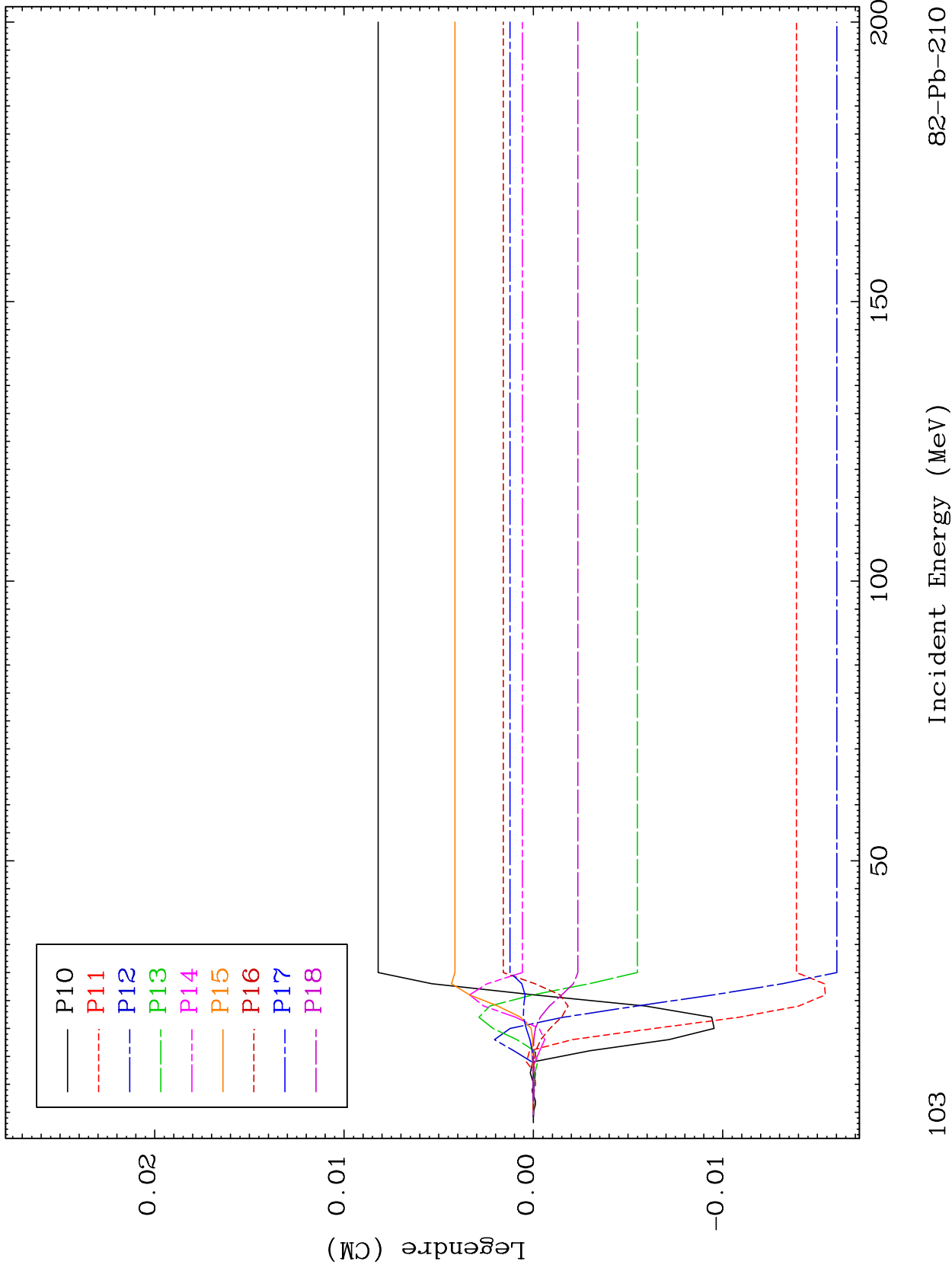
MAT 8243

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

82-Pb-210



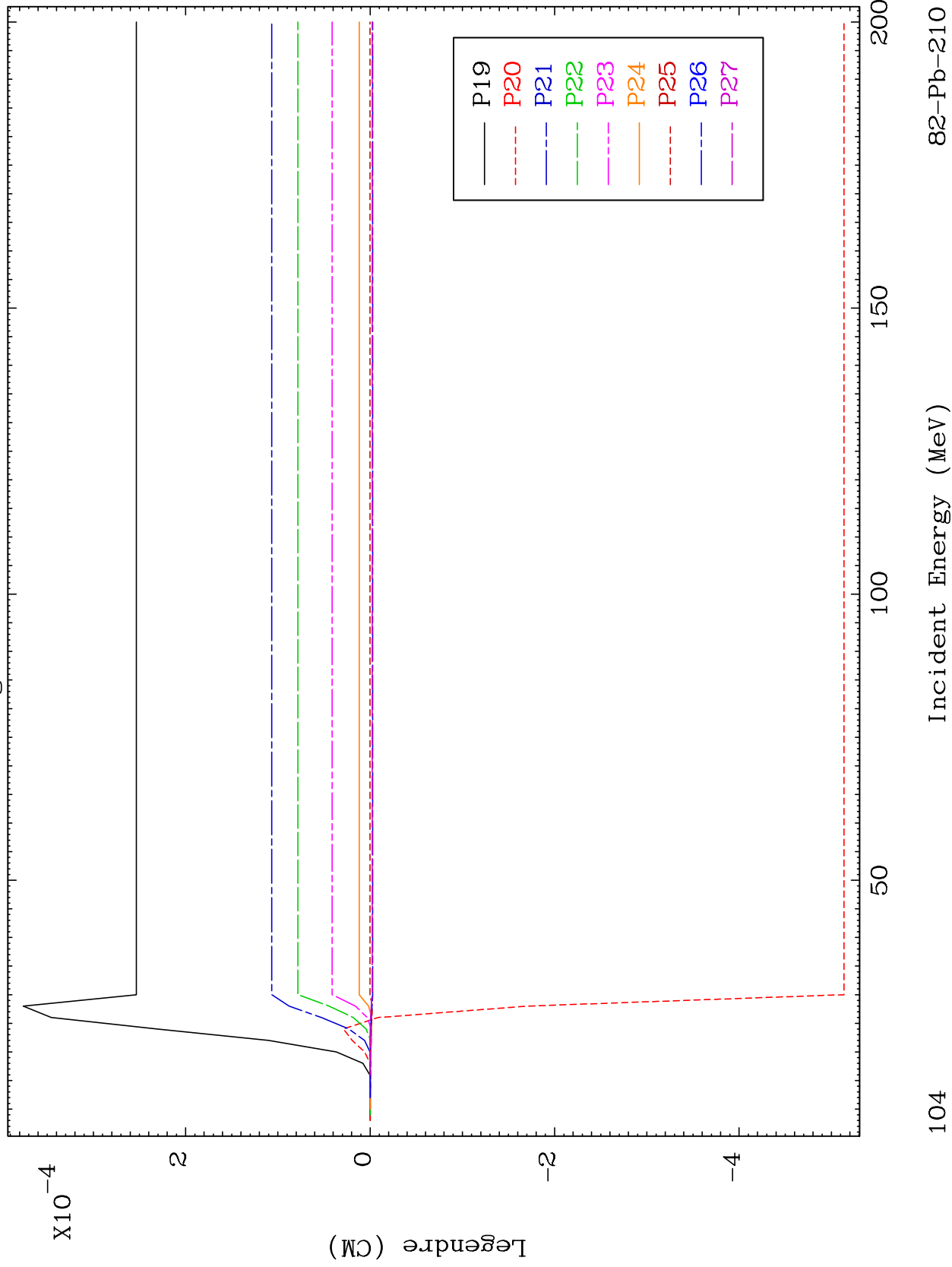
102



MAT 8243

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

82-Pb-210



104

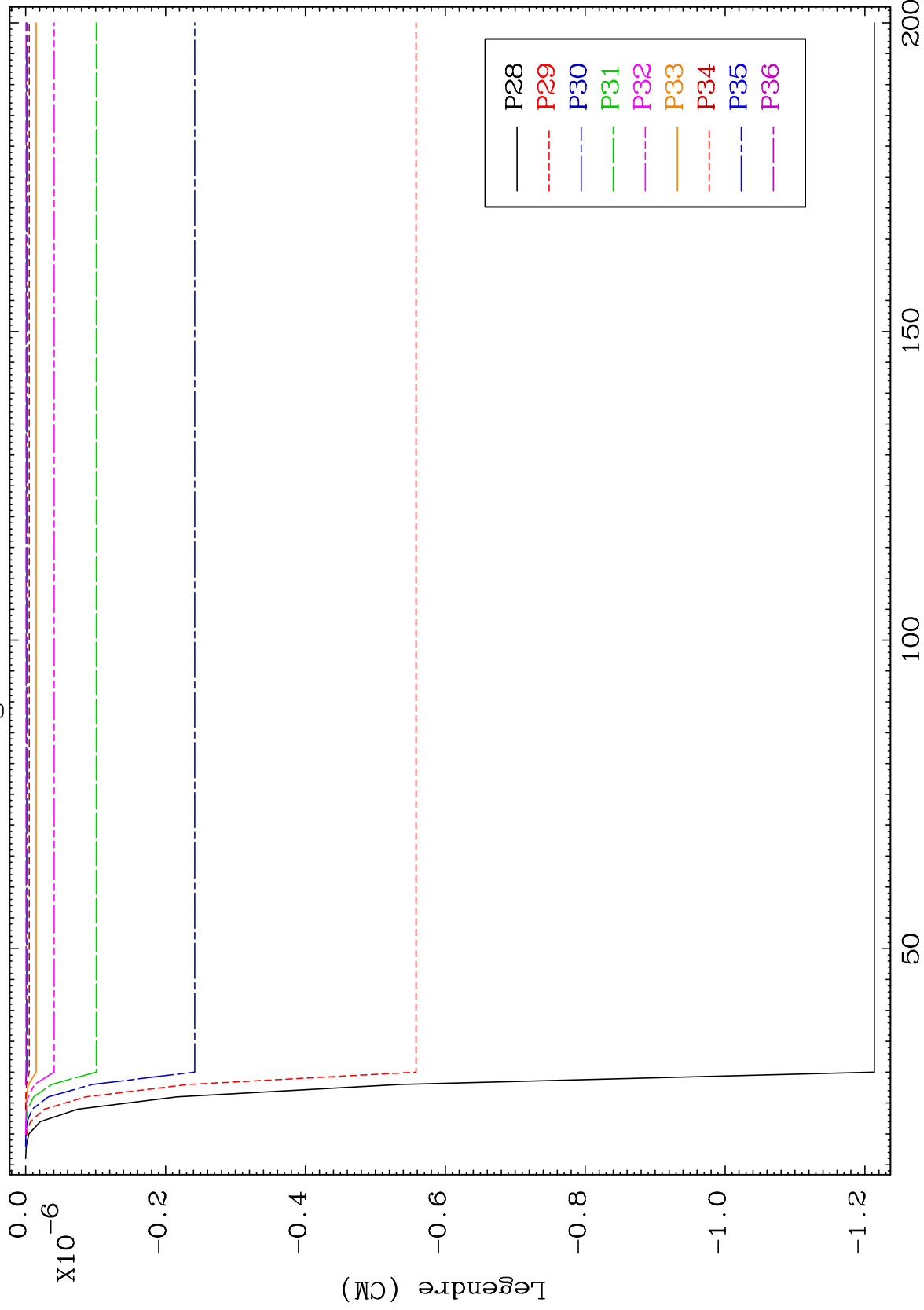
Incident Energy (MeV)

82-Pb-210

MAT 8243

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

82-Pb-210



105

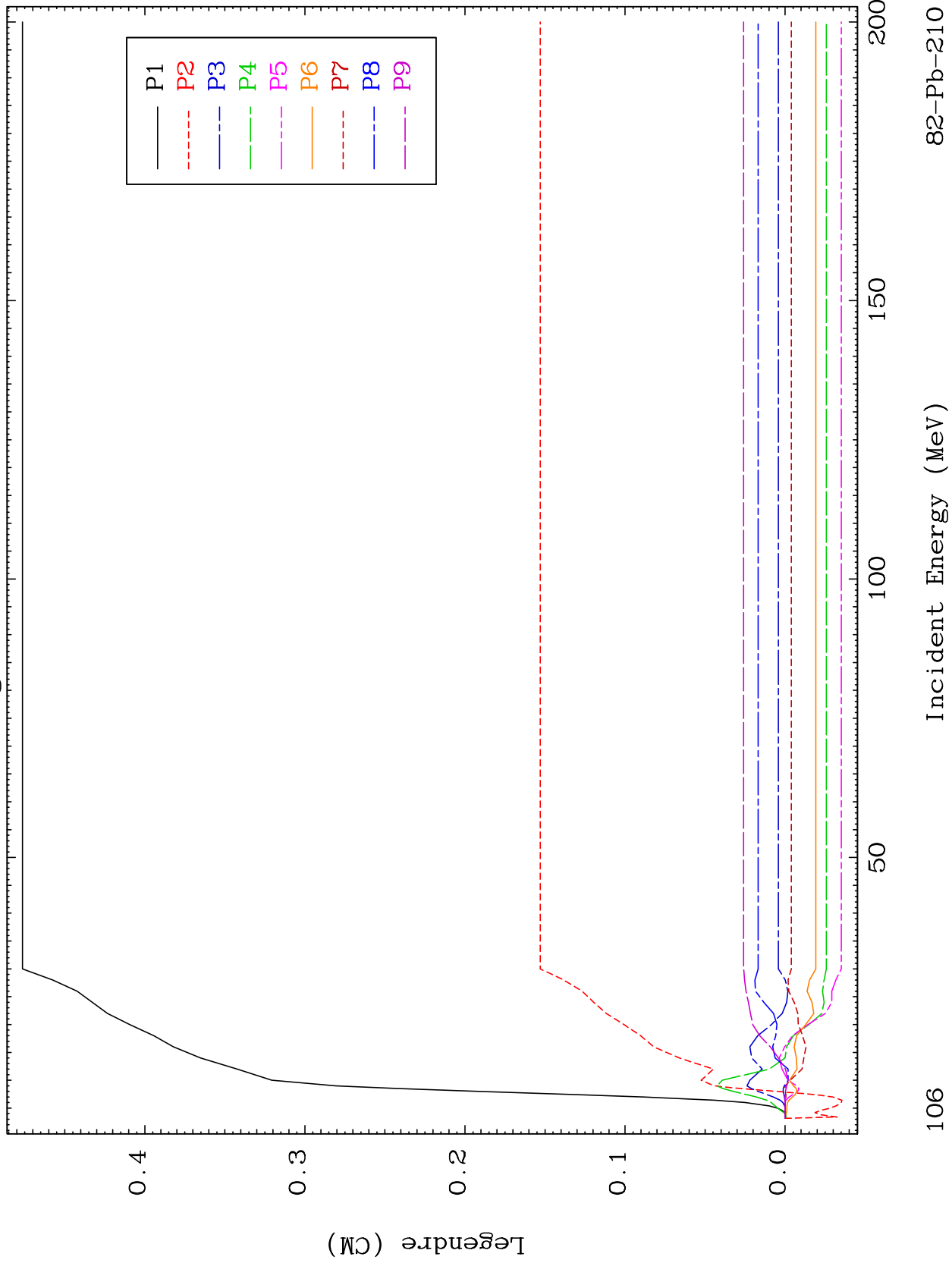
Incident Energy (MeV)

82-Pb-210

MAT 8243

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

82-Pb-210



106

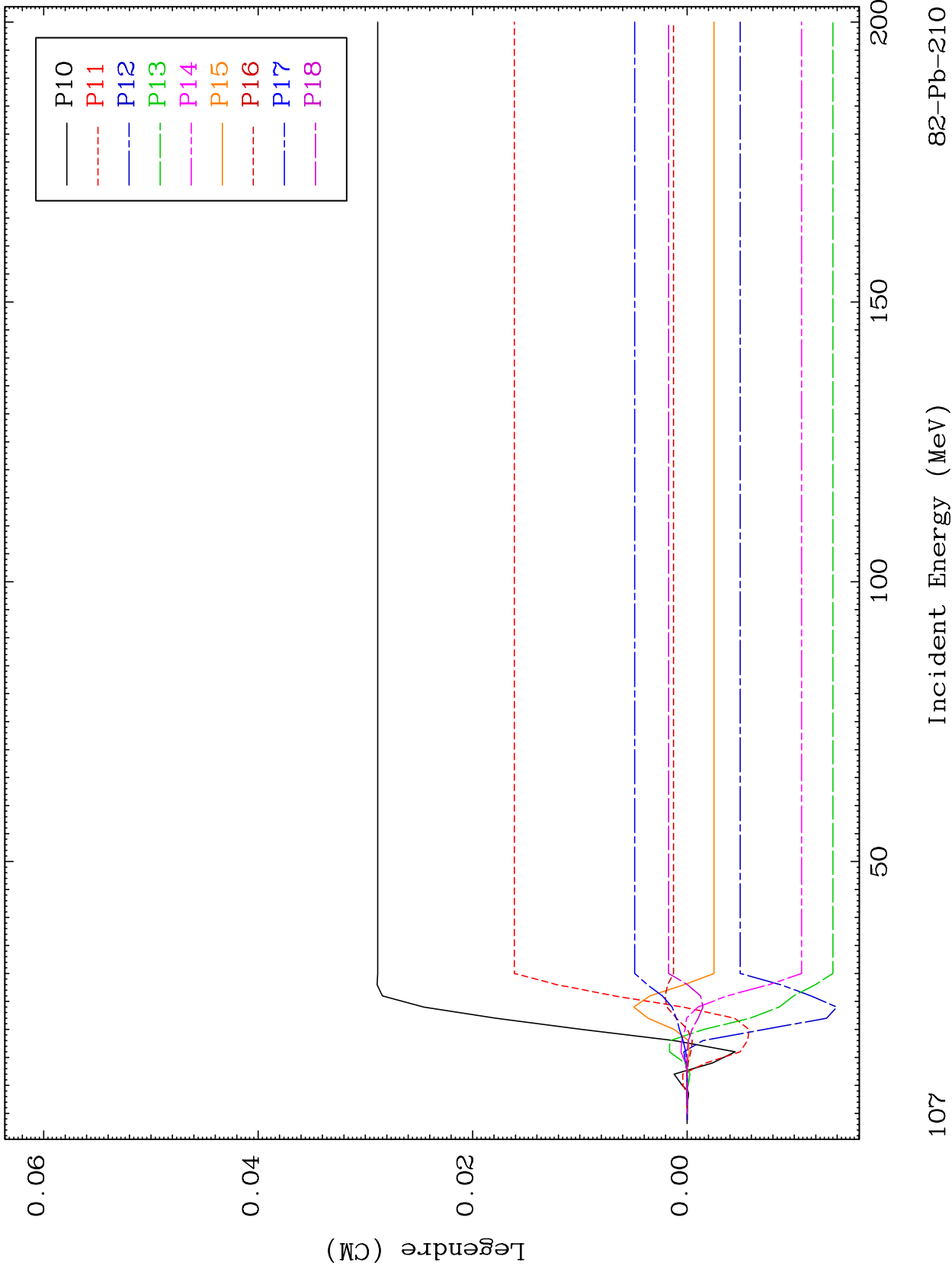
Incident Energy (MeV)

82-Pb-210

MAT 8243

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

82-Pb-210



107

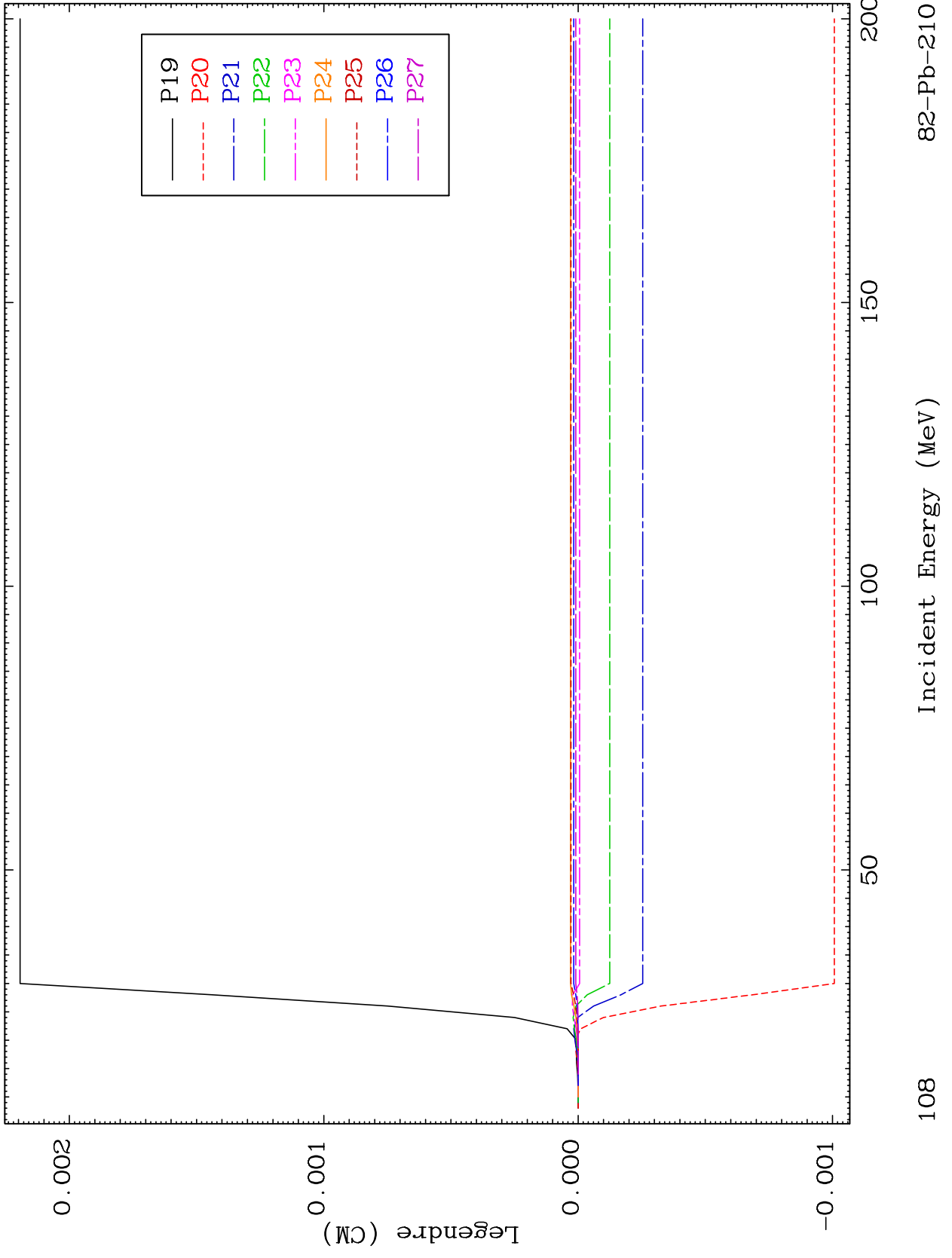
Incident Energy (MeV)

82-Pb-210

MAT 8243

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

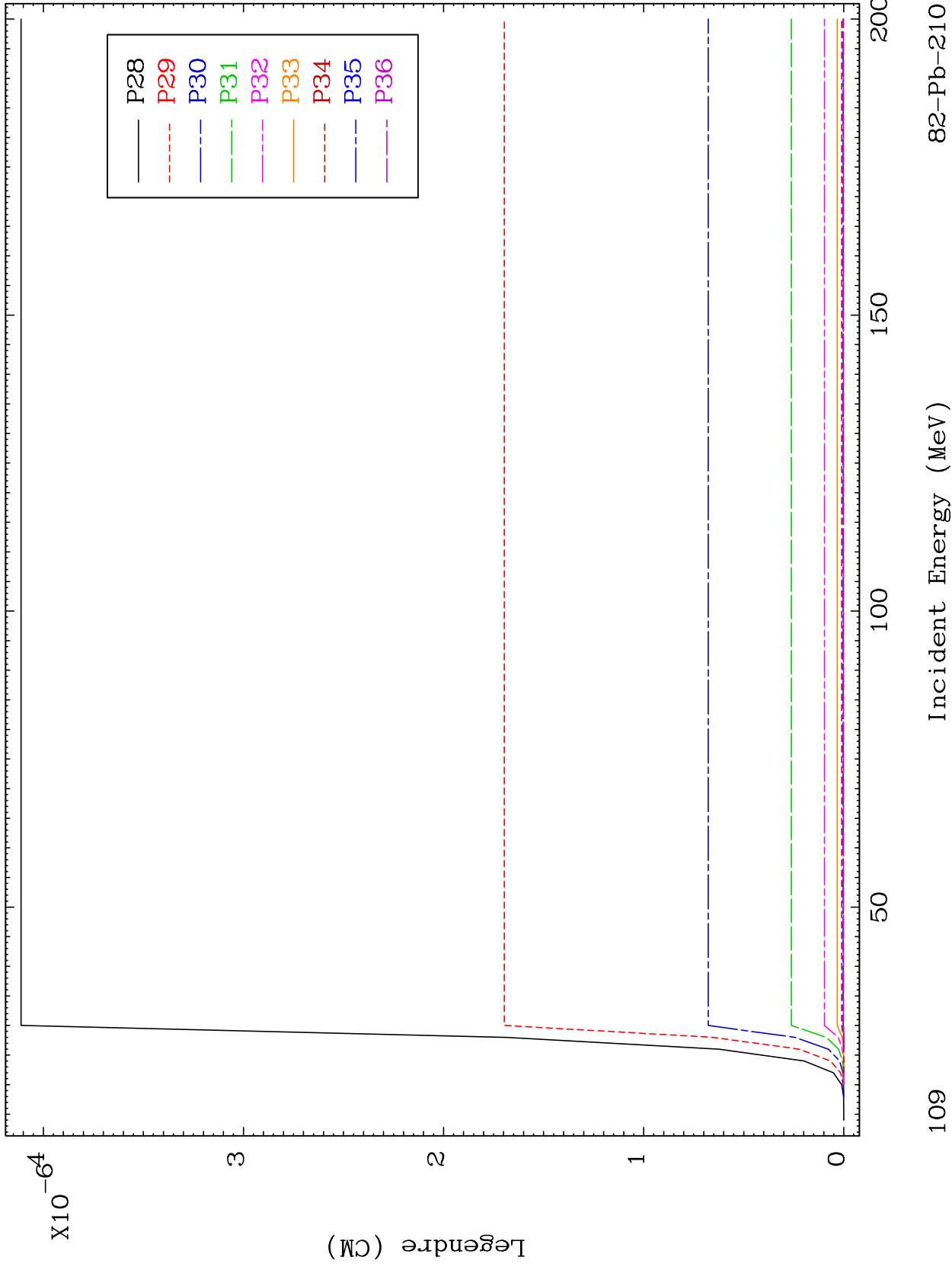
82-Pb-210



MAT 8243

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

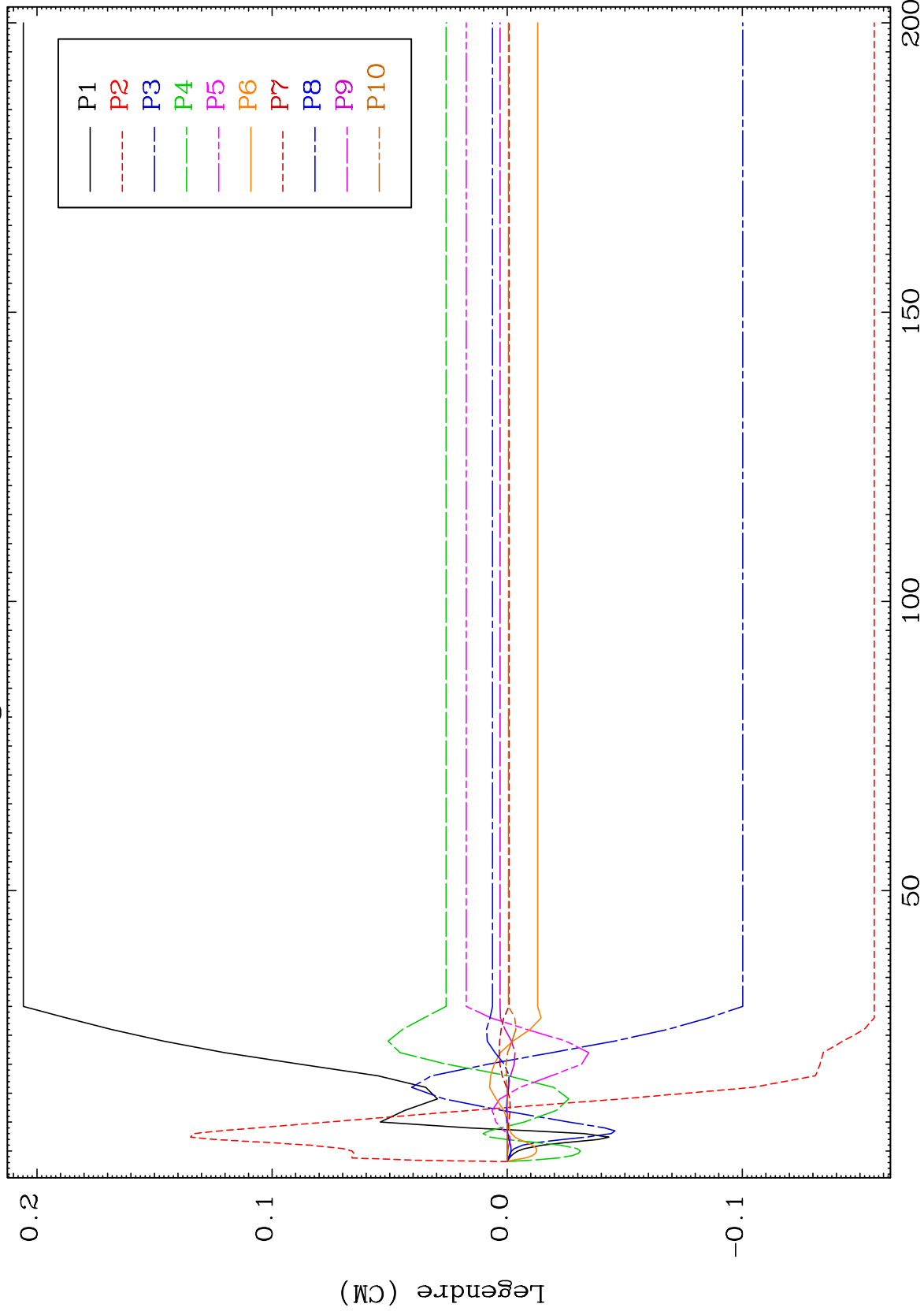
82-Pb-210



MAT 8243

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

82-Pb-210



110

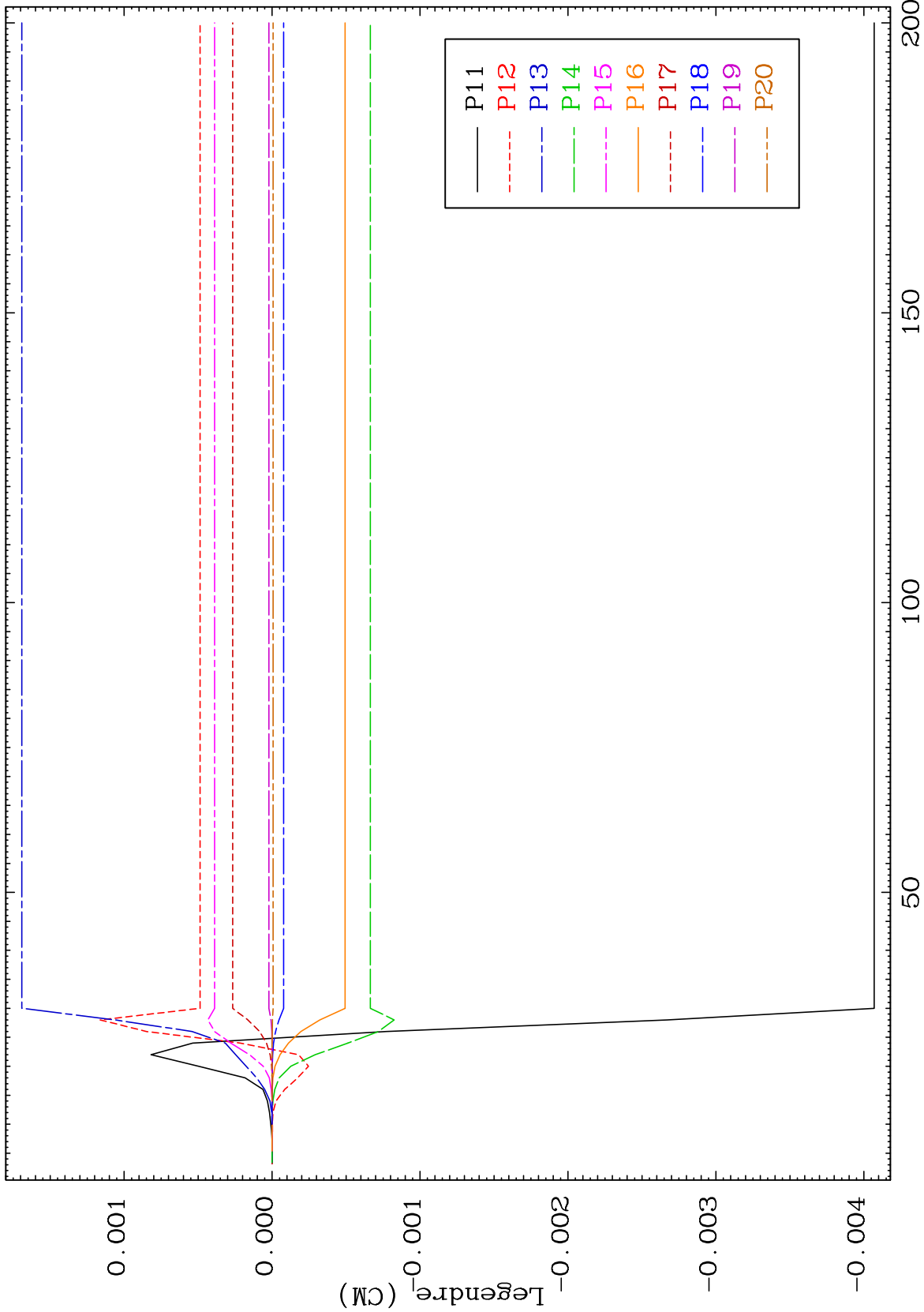
Incident Energy (MeV)

82-Pb-210

MAT 8243

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

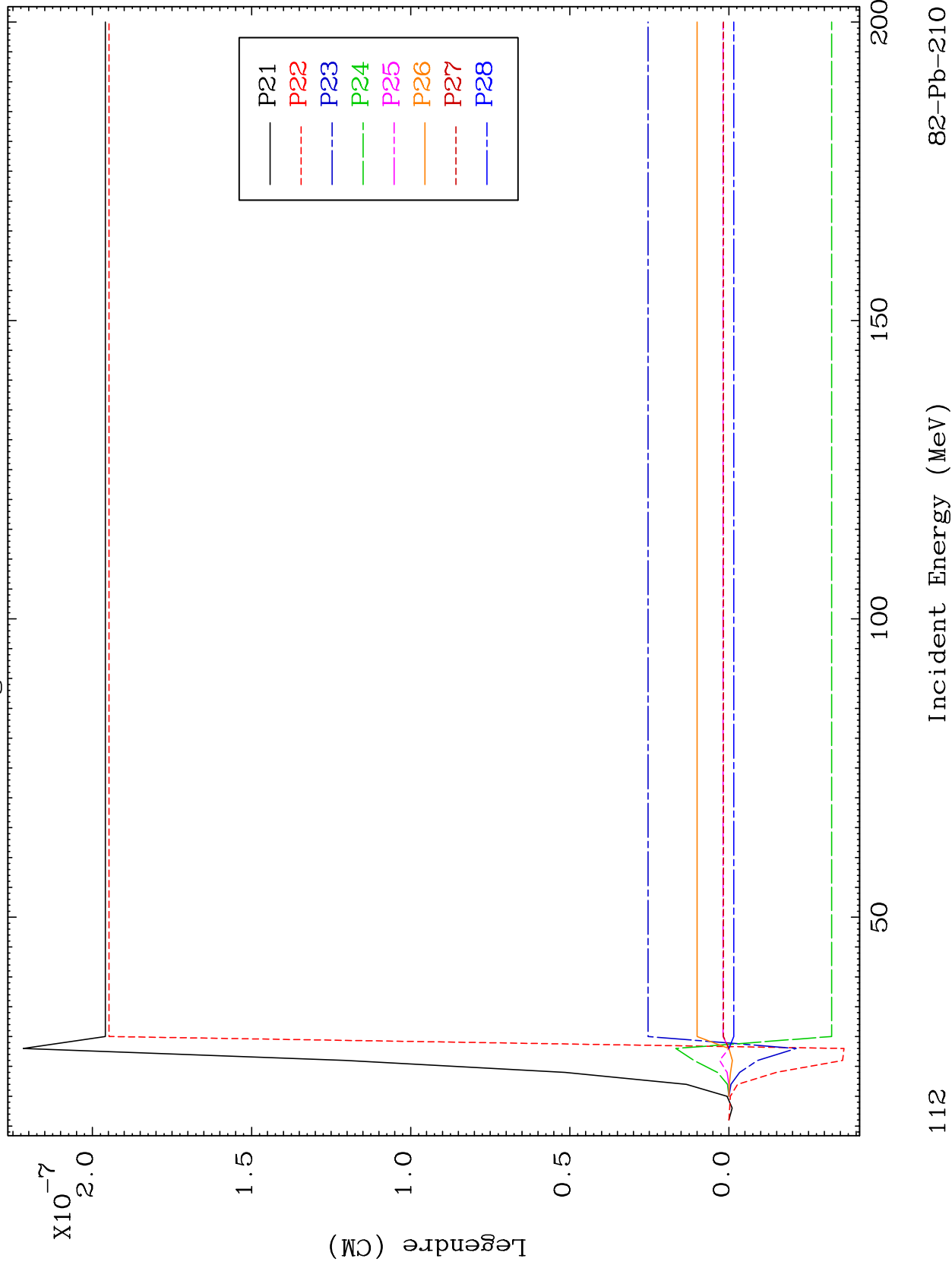
82-Pb-210



MAT 8243

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

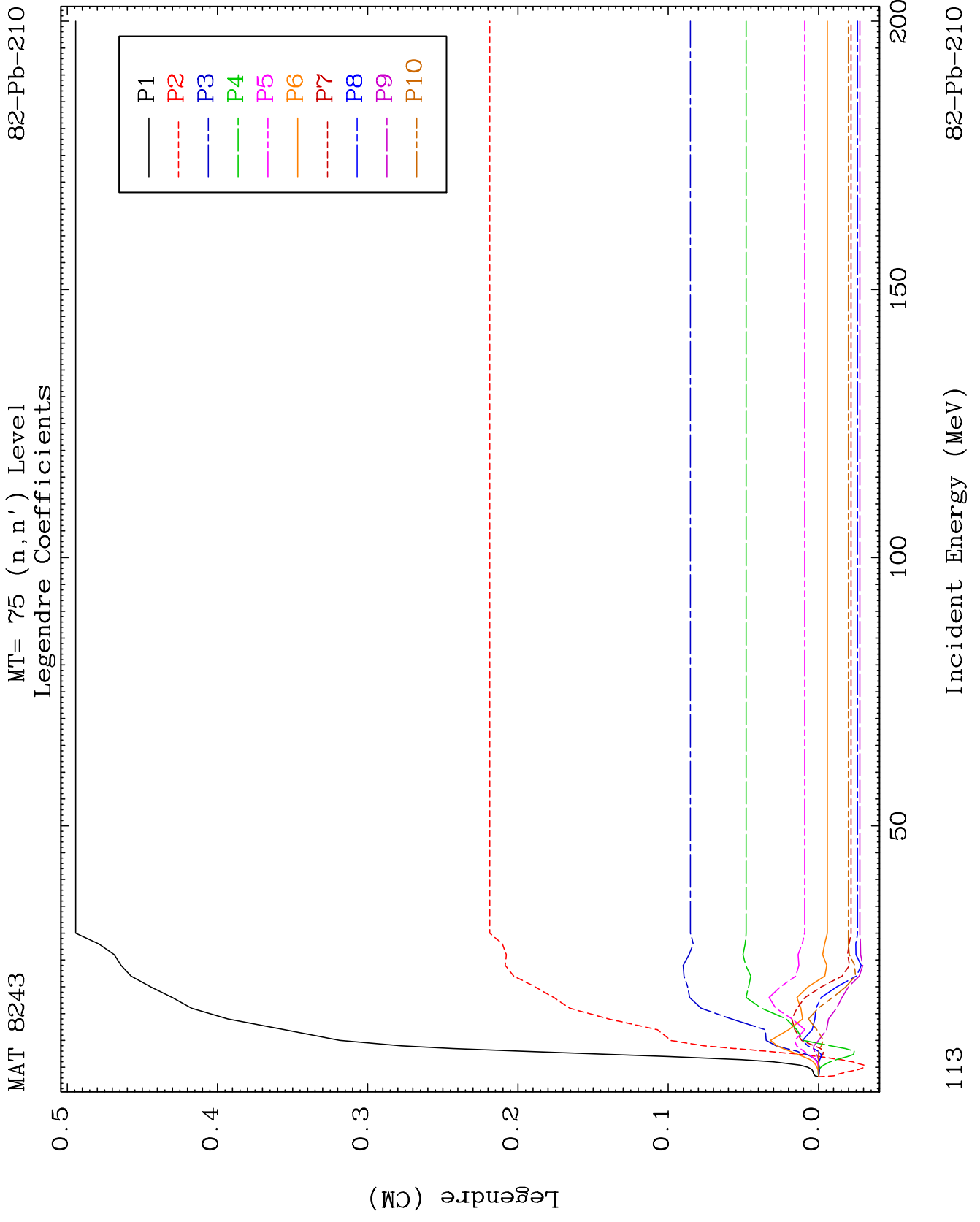
82-Pb-210



112

Incident Energy (MeV)

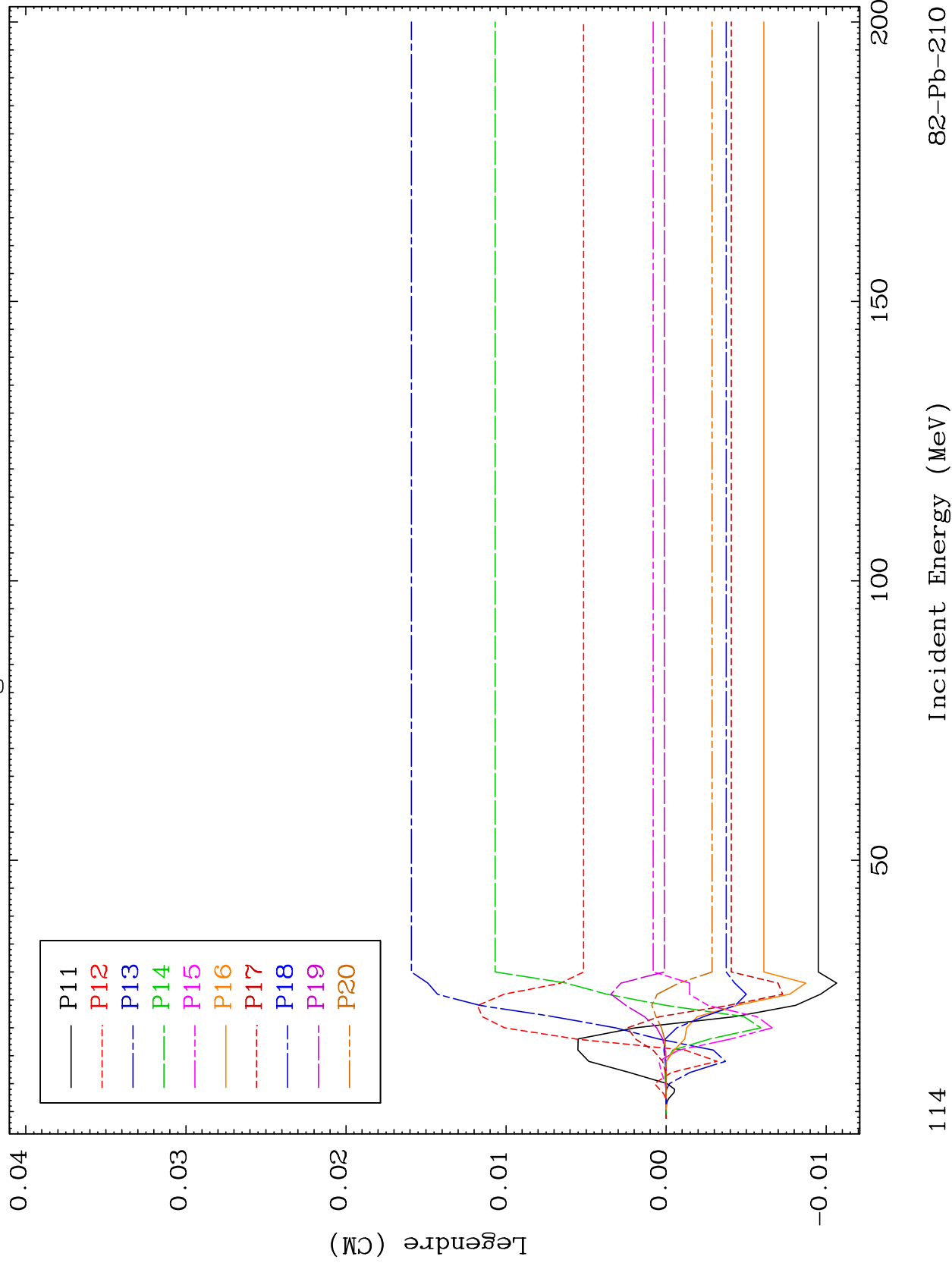
82-Pb-210



MAT 8243

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

82-Pb-210

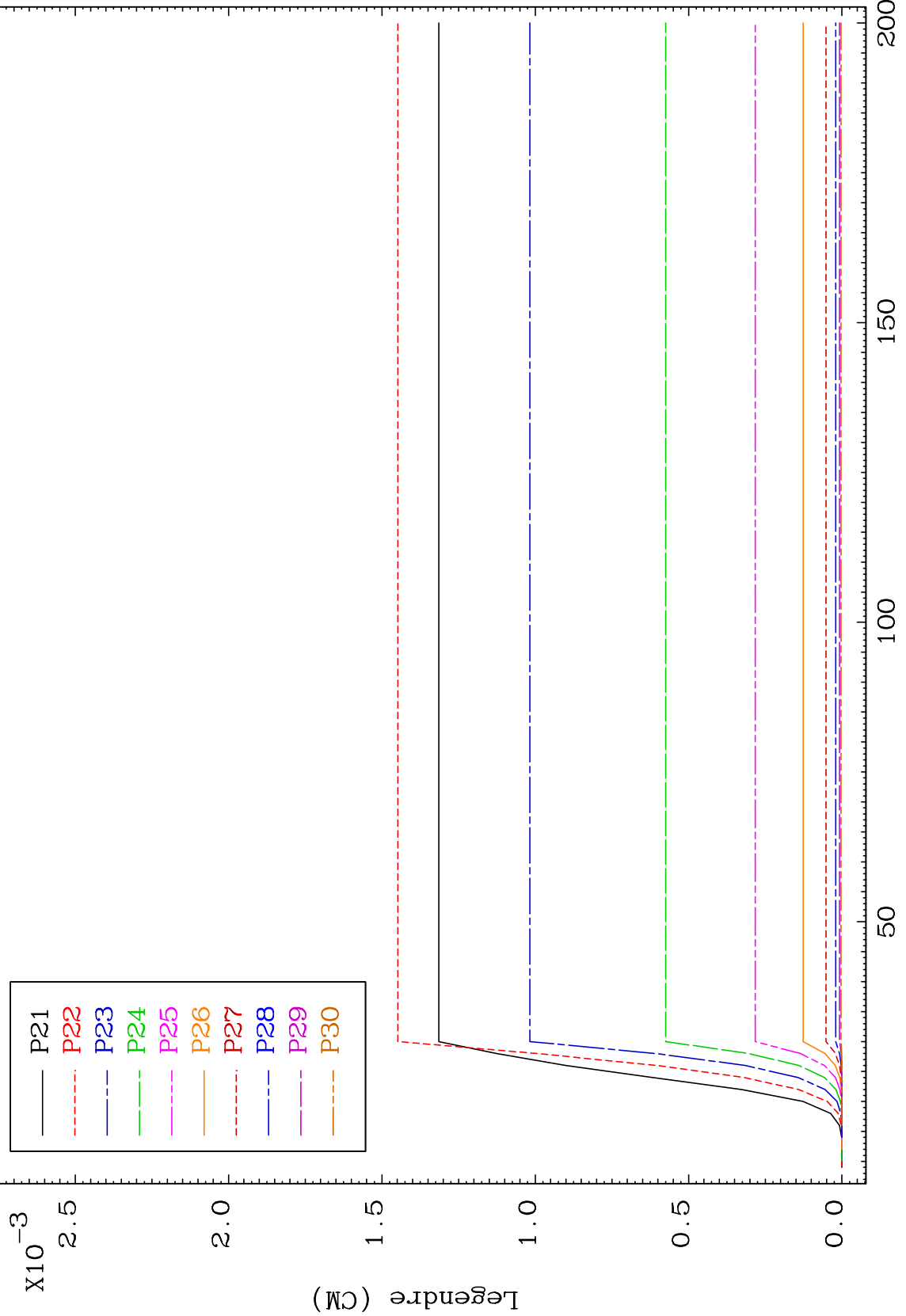
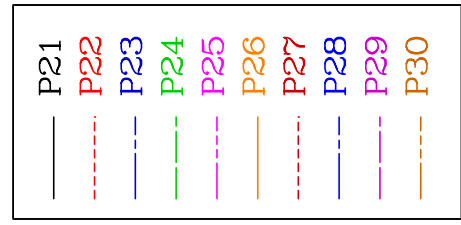


114

MAT 8243

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

82-Pb-210



115

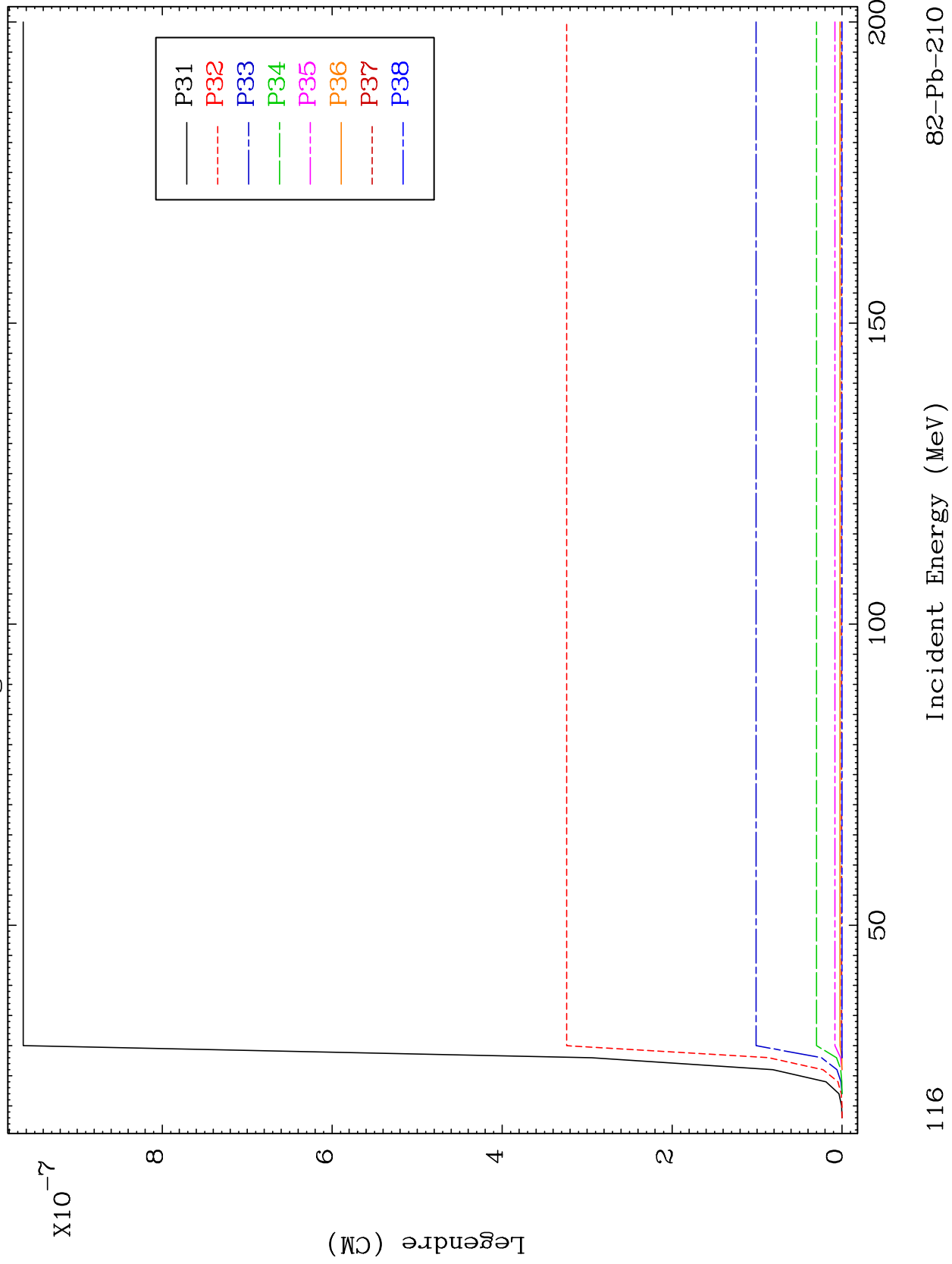
Incident Energy (MeV)

82-Pb-210

MAT 8243

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

82-Pb-210



116

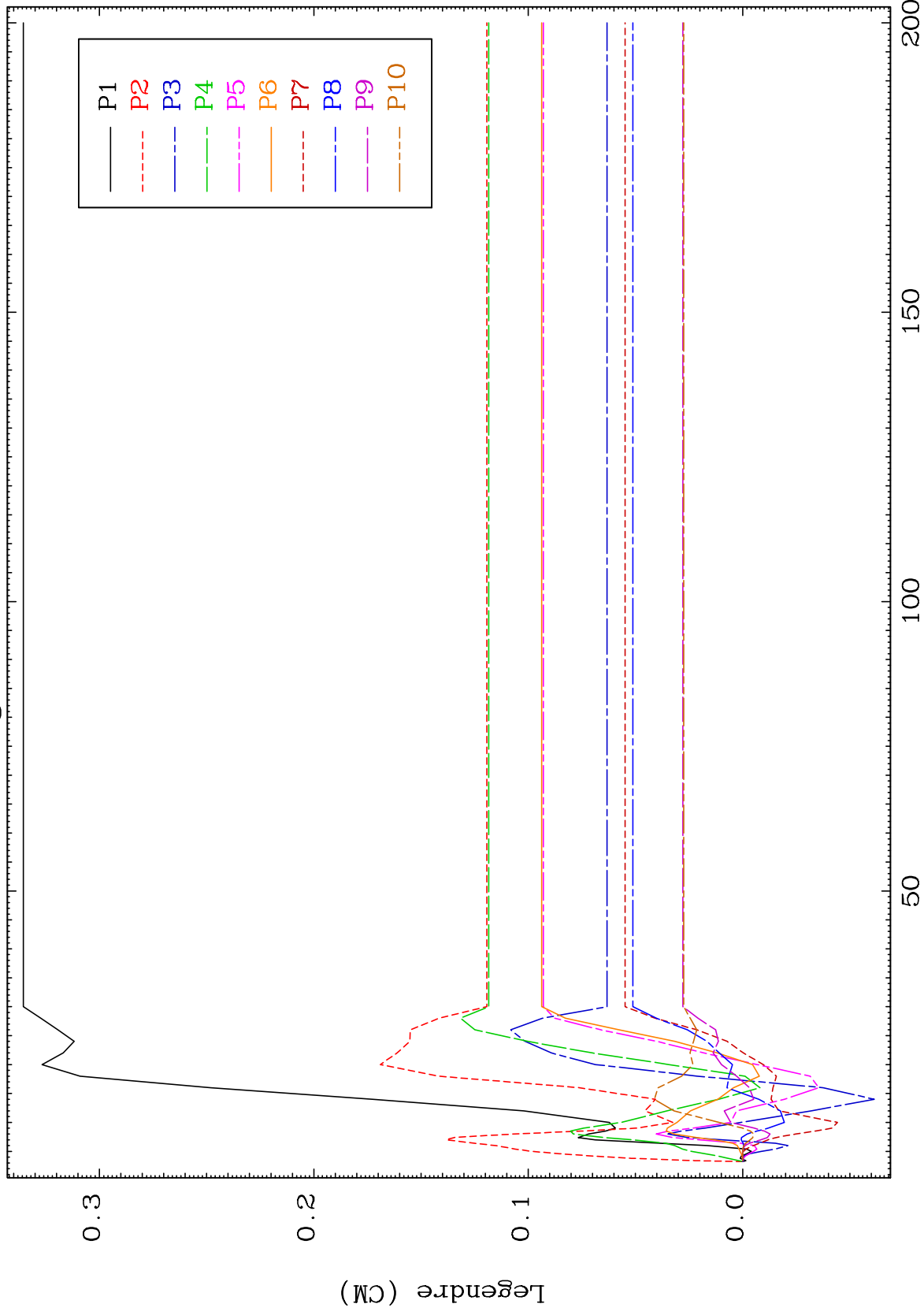
Incident Energy (MeV)

82-Pb-210

MAT 8243

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

82-Pb-210



117

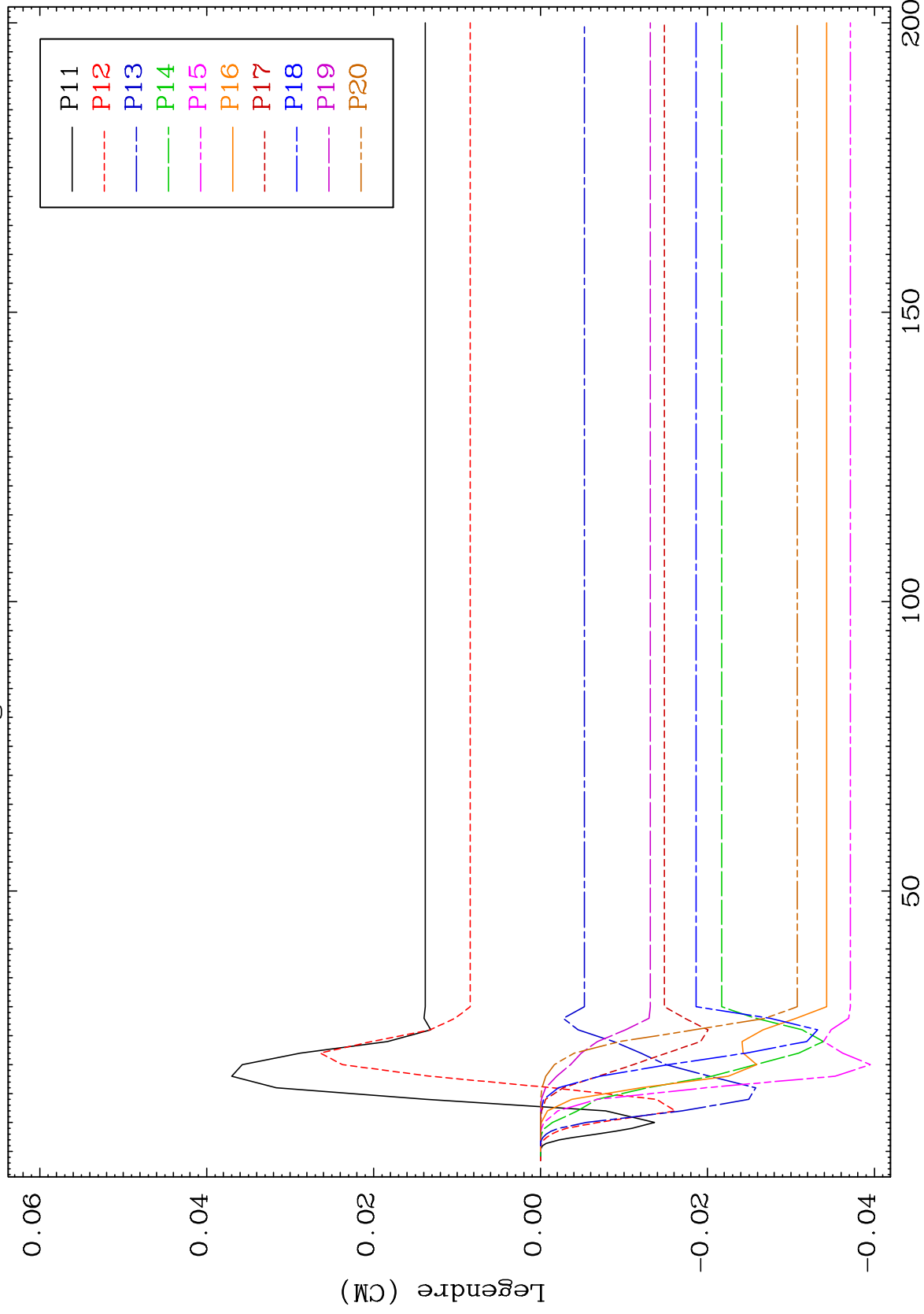
Incident Energy (MeV)

82-Pb-210

MAT 8243

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

82-Pb-210



118

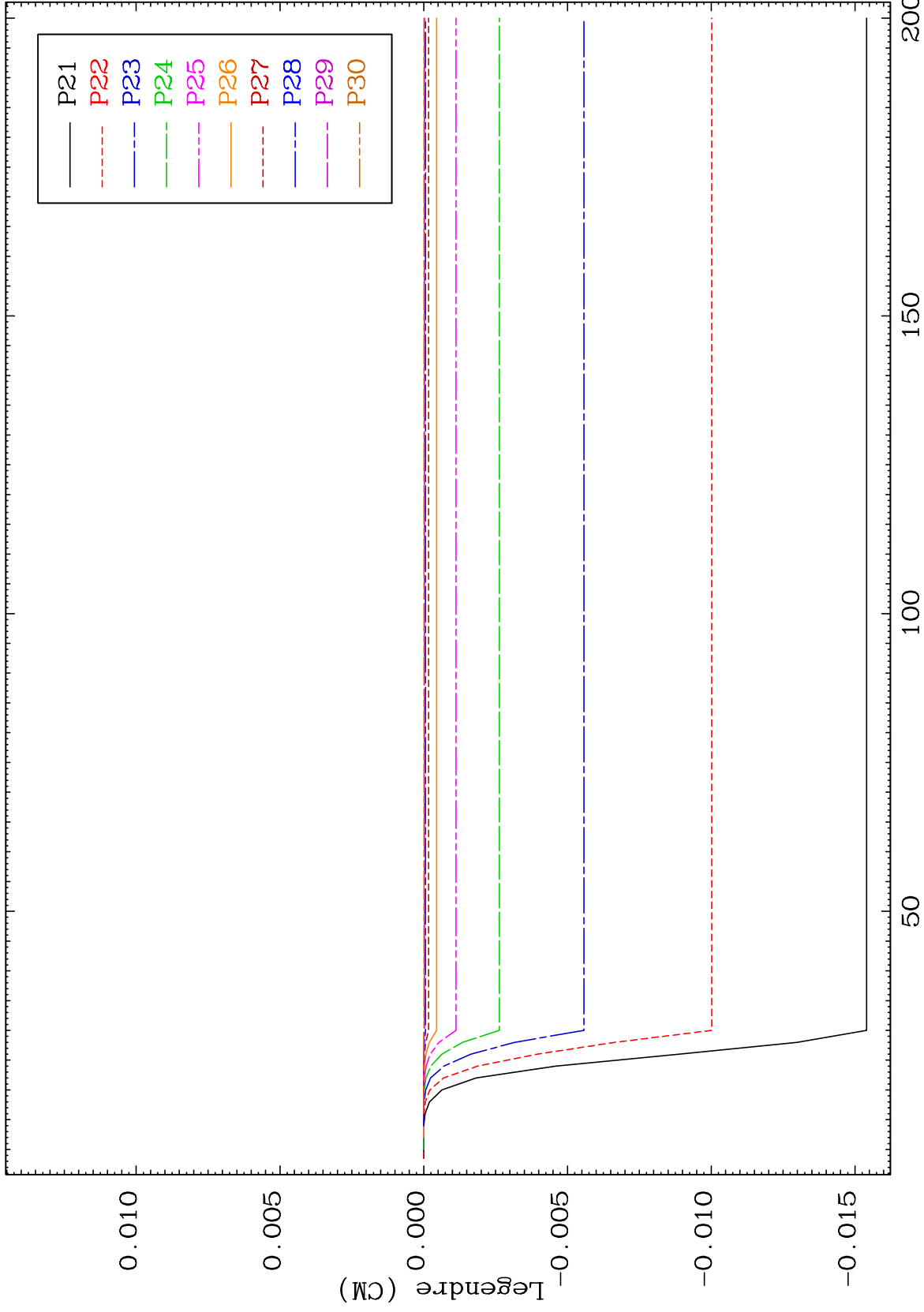
Incident Energy (MeV)

82-Pb-210

MAT 8243

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

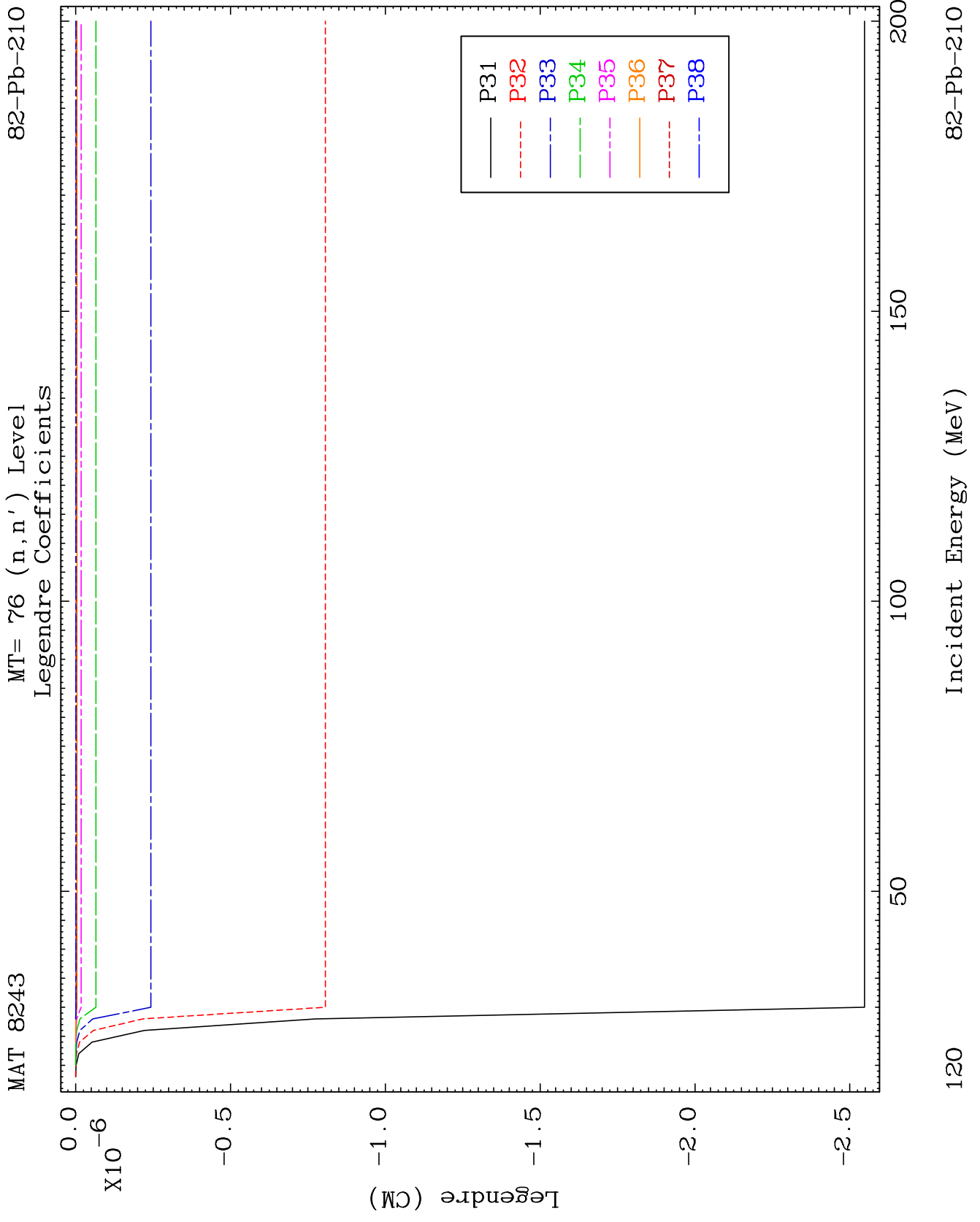
82-Pb-210



119

Incident Energy (MeV)

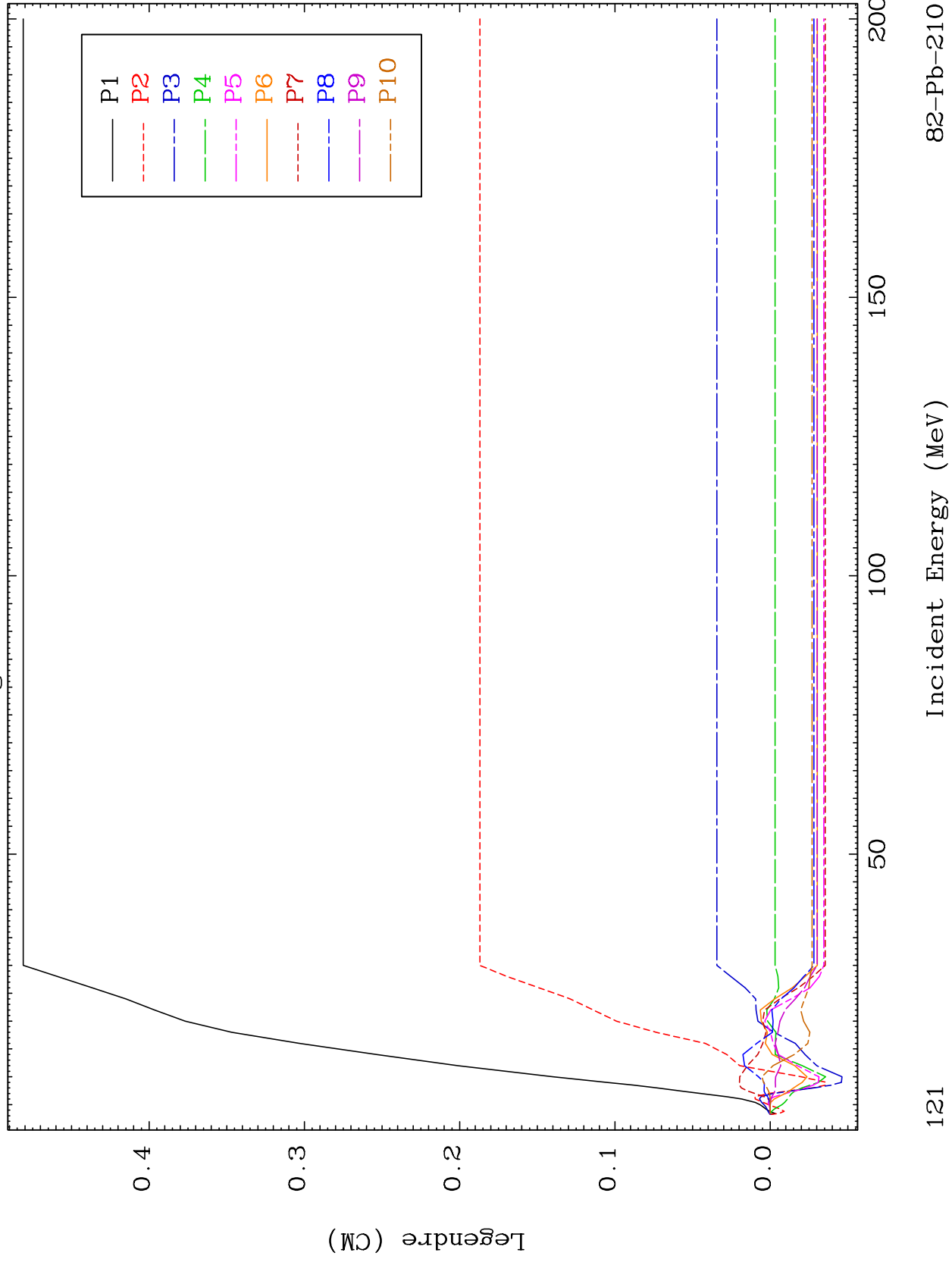
82-Pb-210



MAT 8243

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

82-Pb-210



121

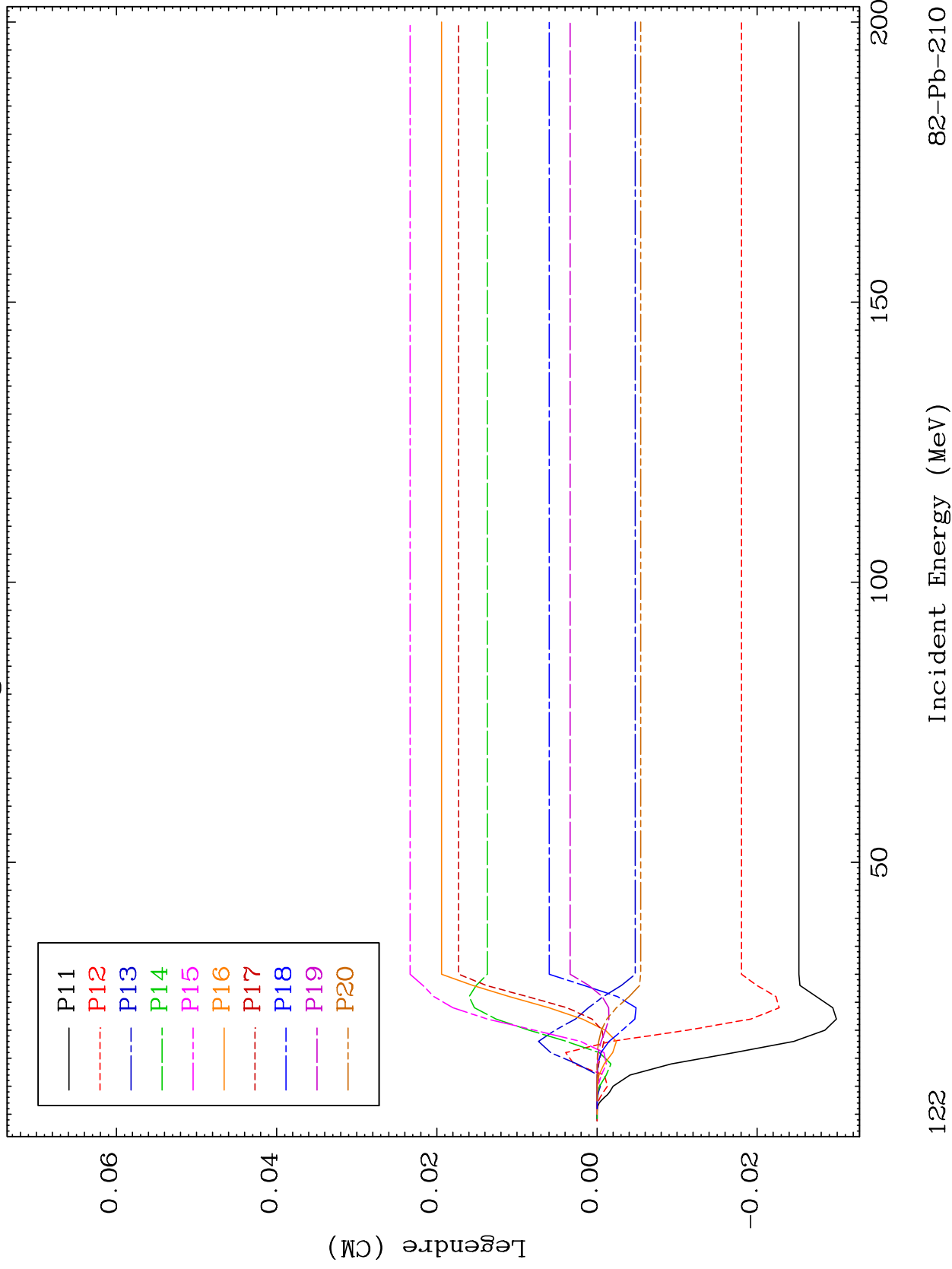
Incident Energy (MeV)

82-Pb-210

MAT 8243

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

82-Pb-210

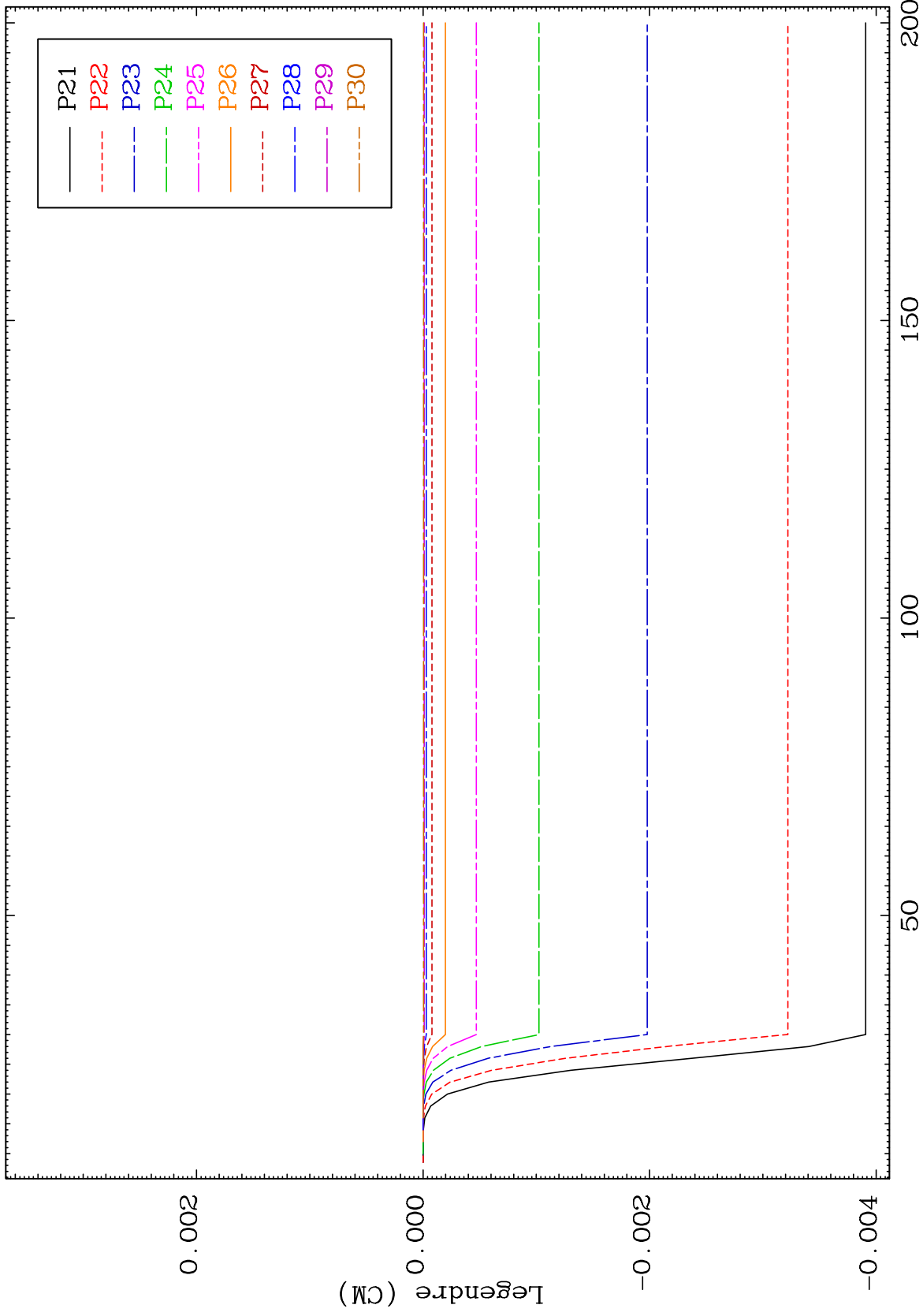


122

MAT 8243

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

82-Pb-210



123

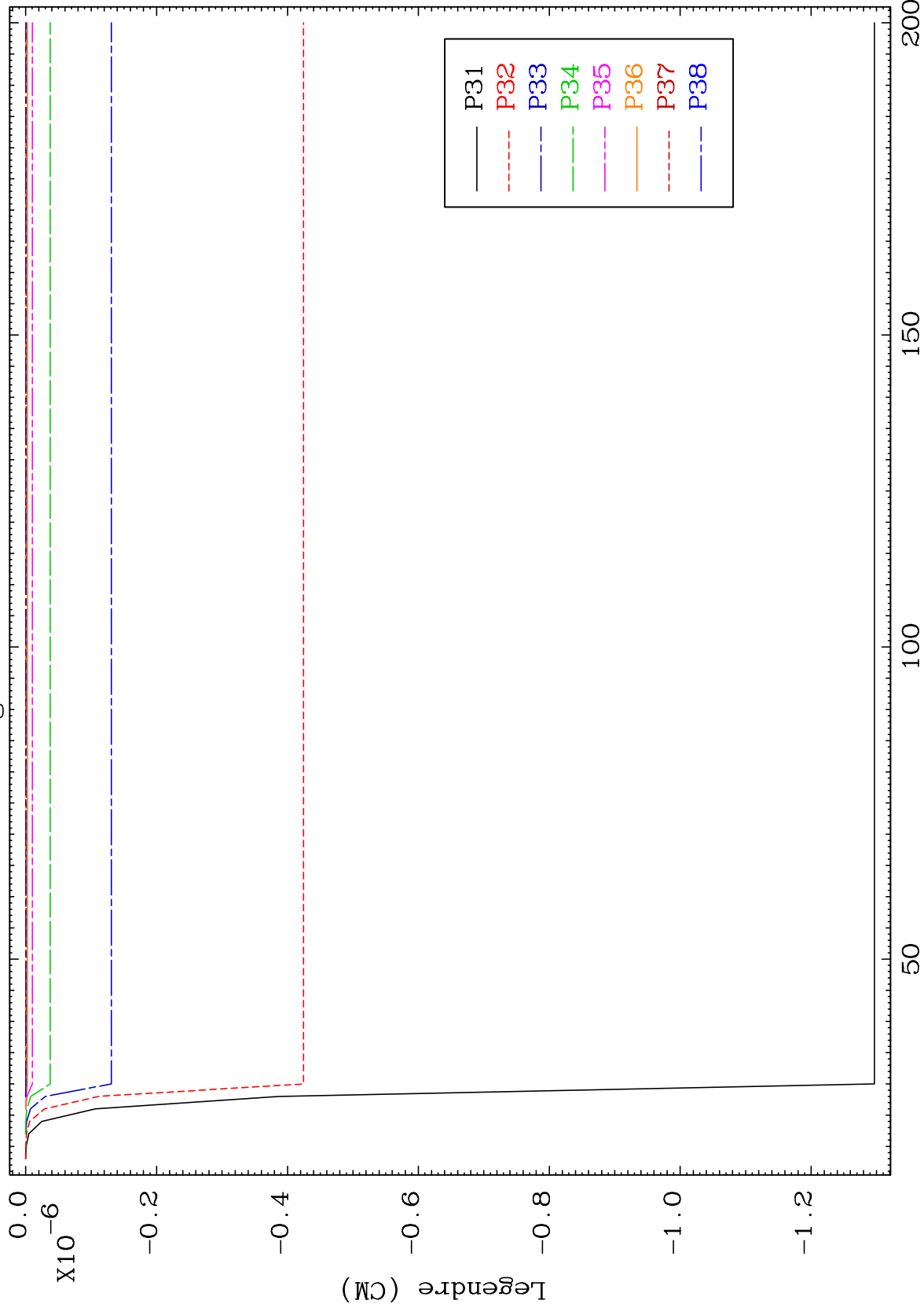
Incident Energy (MeV)

82-Pb-210

MAT 8243

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

82-Pb-210



124

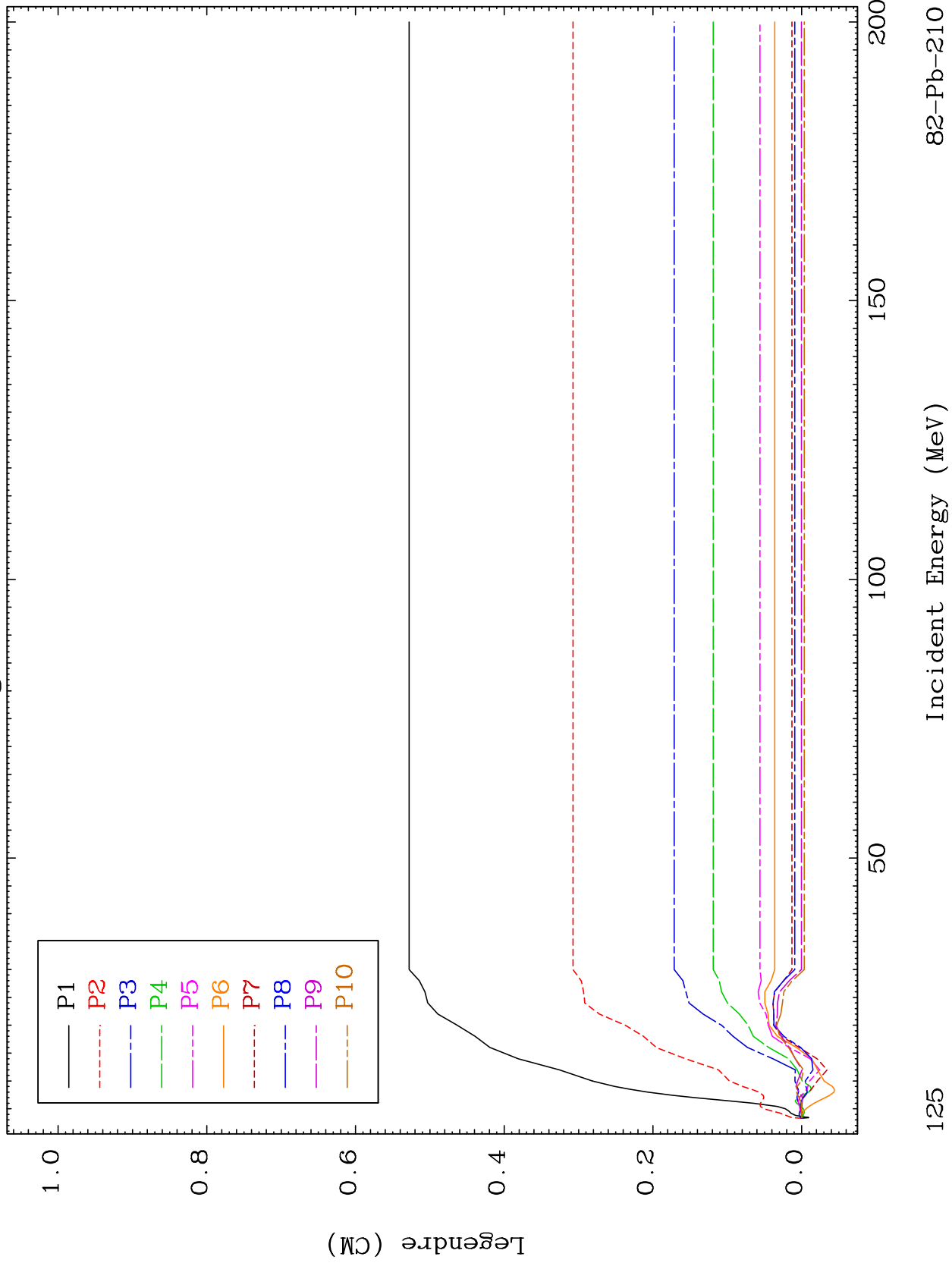
Incident Energy (MeV)

82-Pb-210

MAT 8243

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

82-Pb-210



125

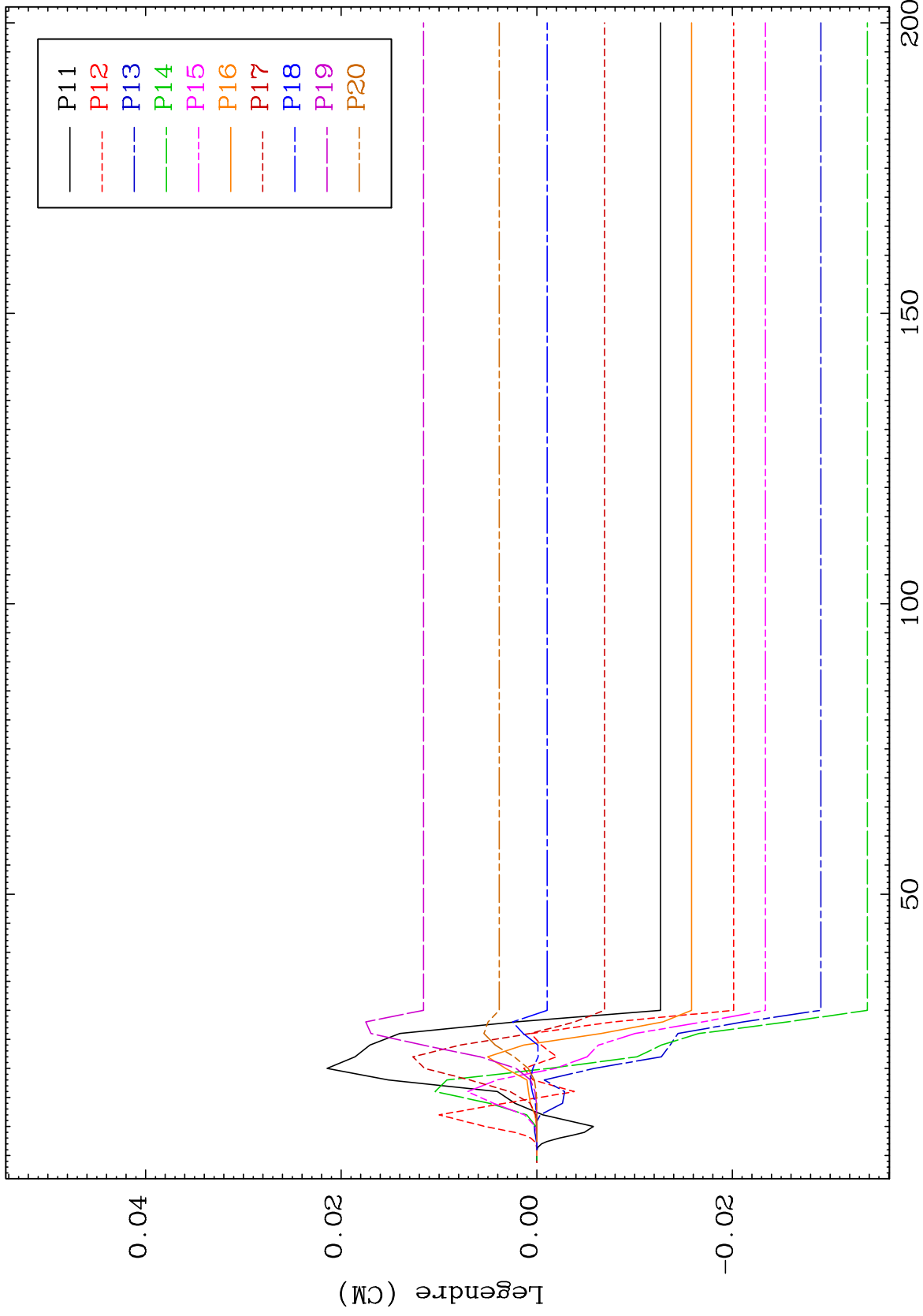
Incident Energy (MeV)

82-Pb-210

MAT 8243

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

82-Pb-210



126

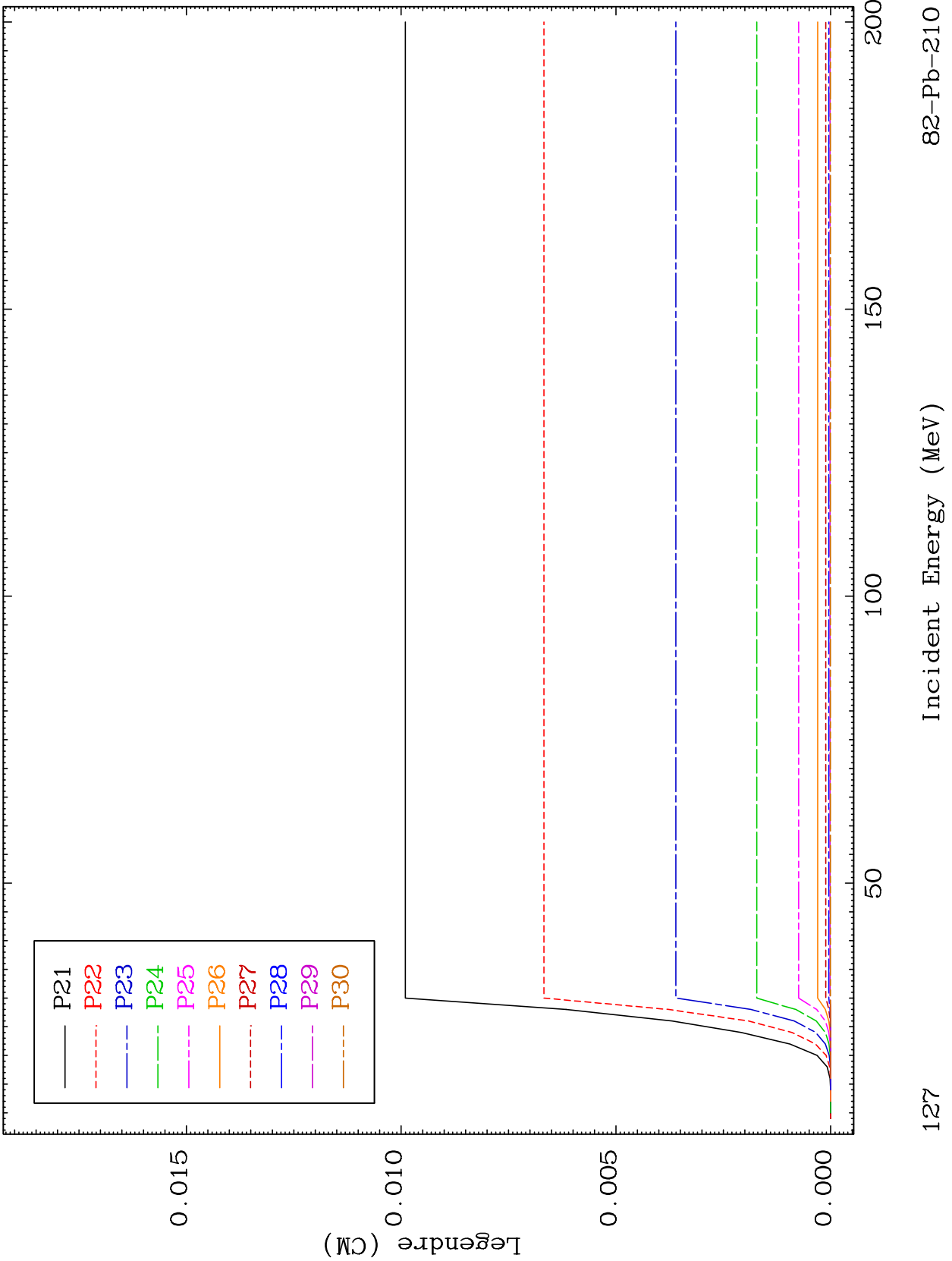
Incident Energy (MeV)

82-Pb-210

MAT 8243

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

82-Pb-210



127

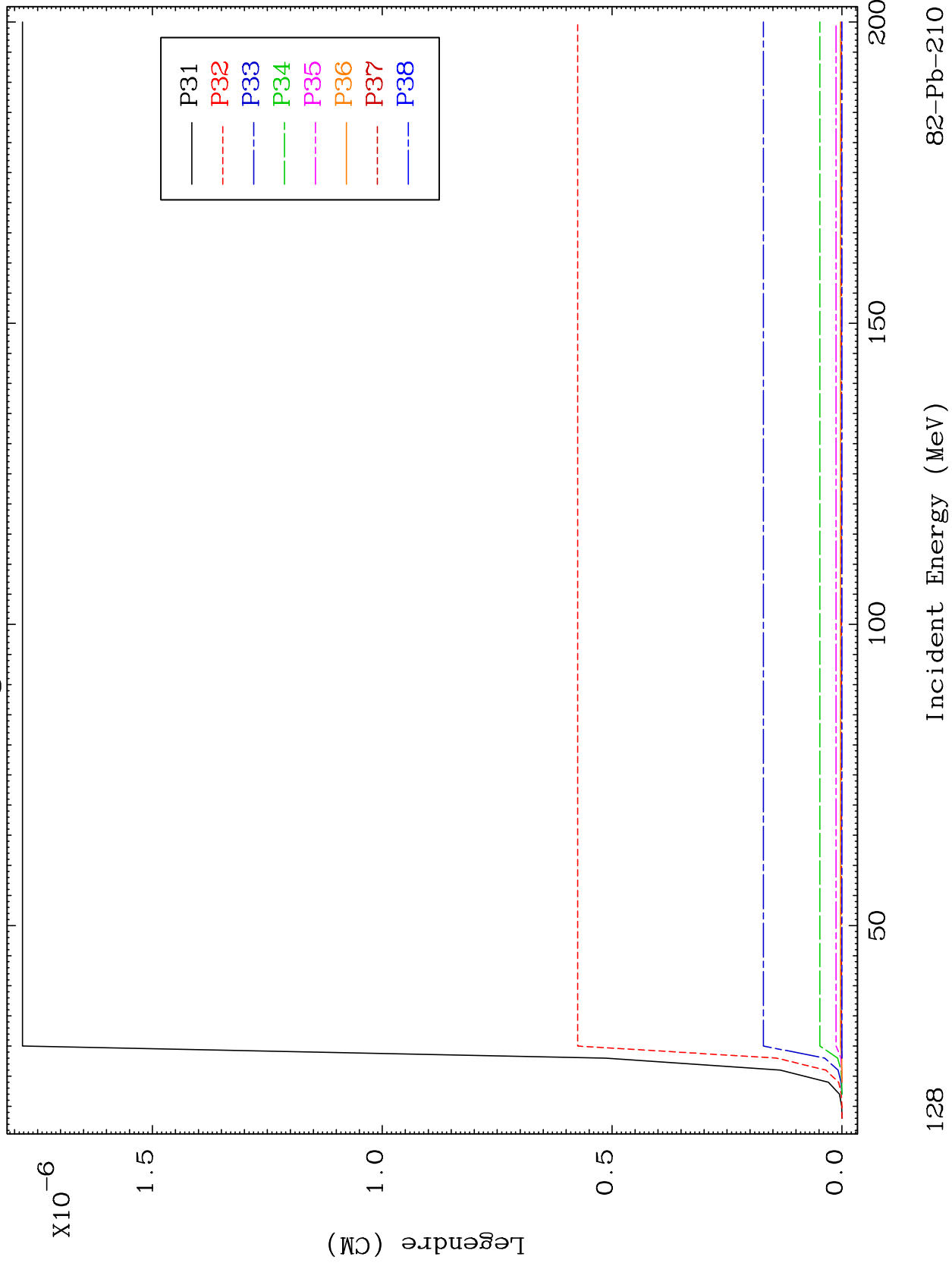
Incident Energy (MeV)

82-Pb-210

MAT 8243

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

82-Pb-210

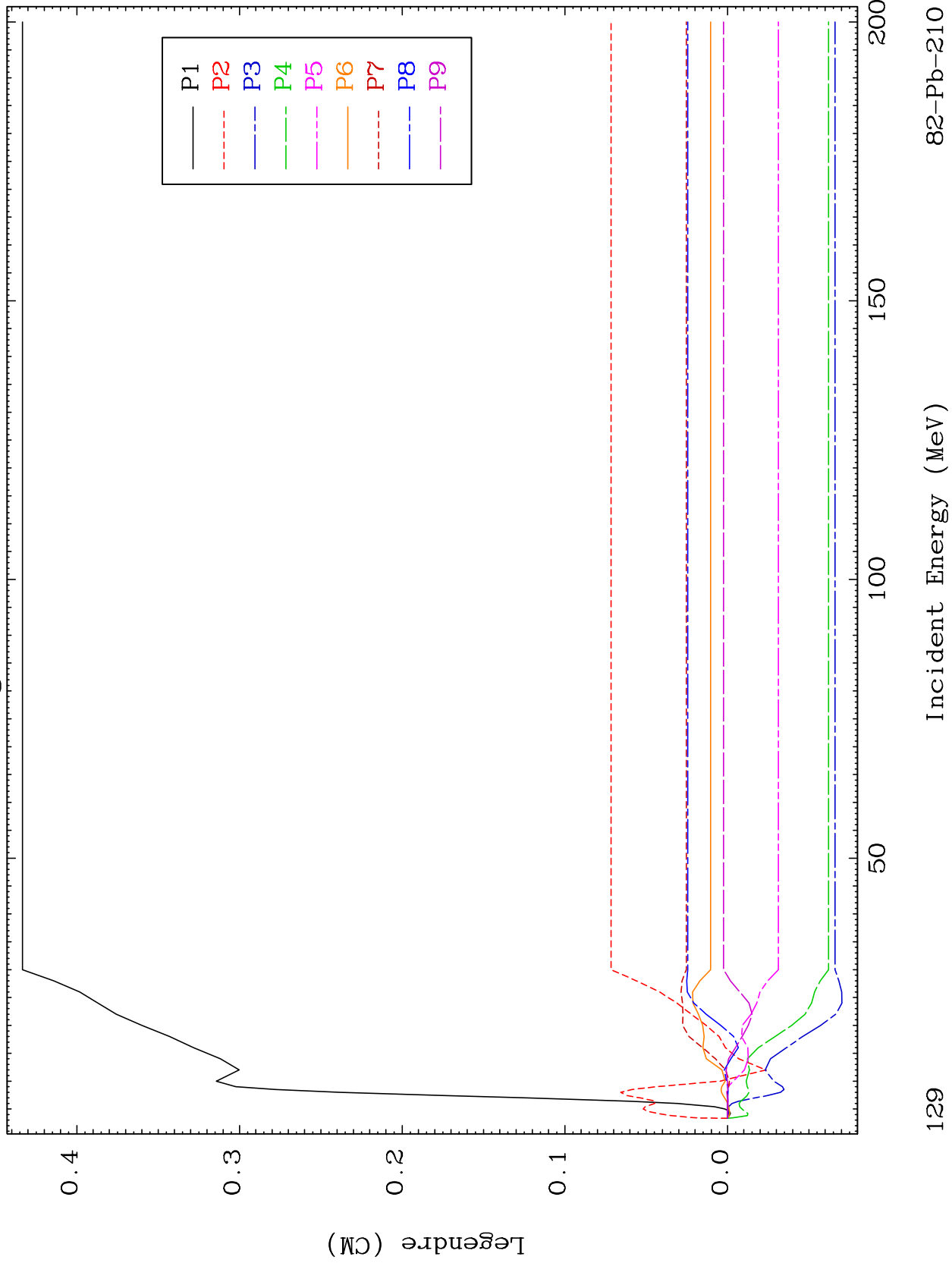


128

MAT 8243

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

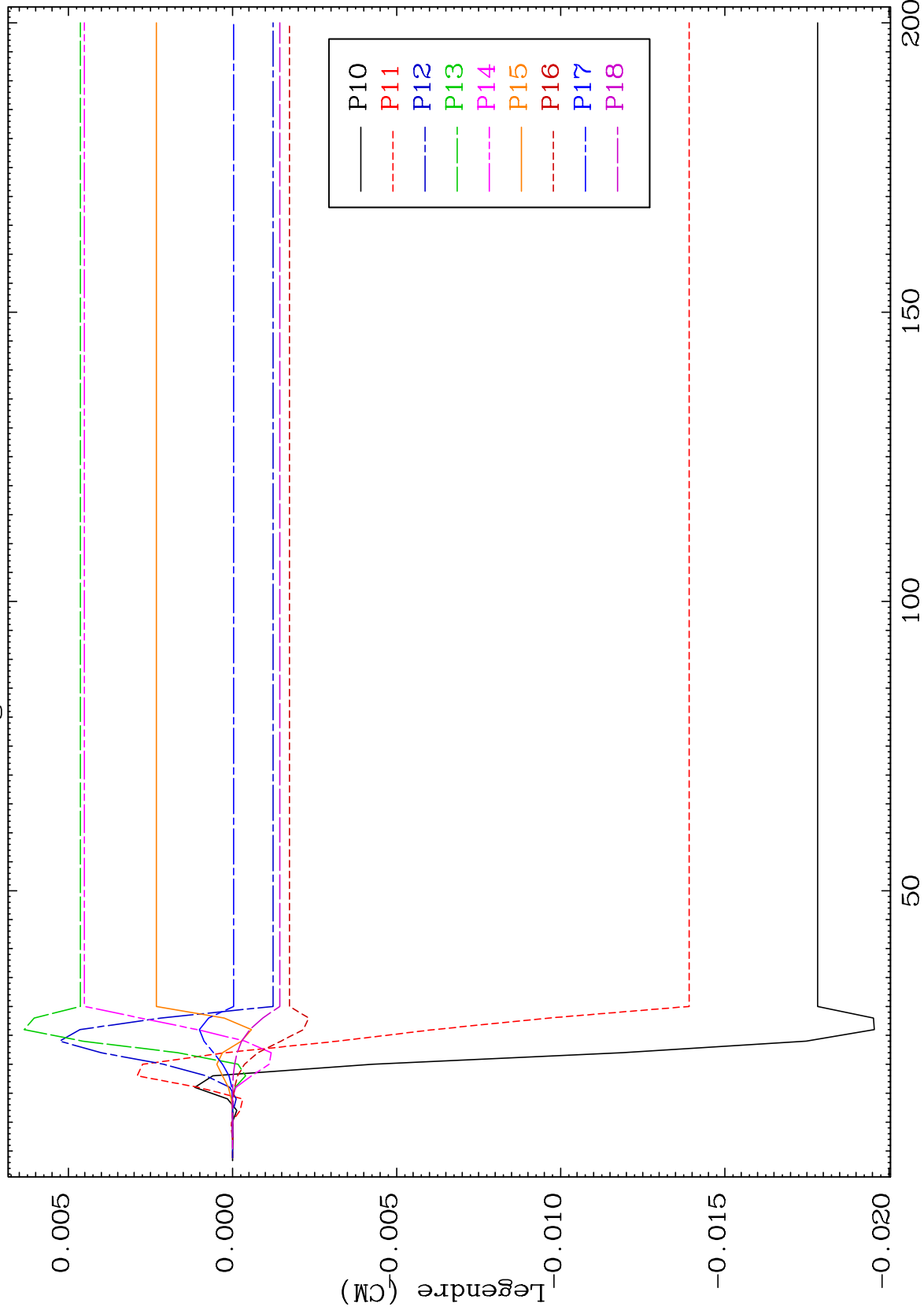
82-Pb-210



MAT 8243

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

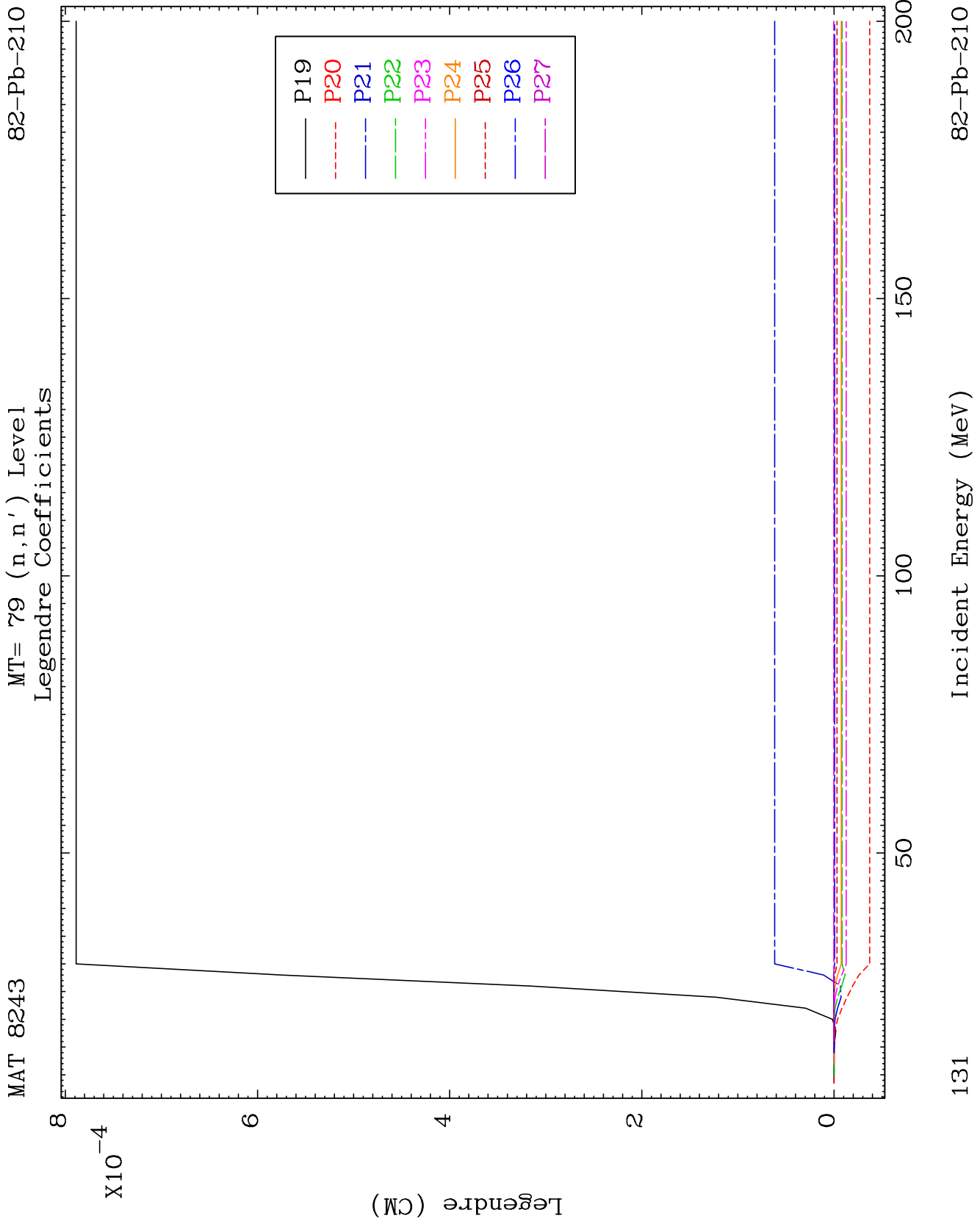
82-Pb-210



130

Incident Energy (MeV)

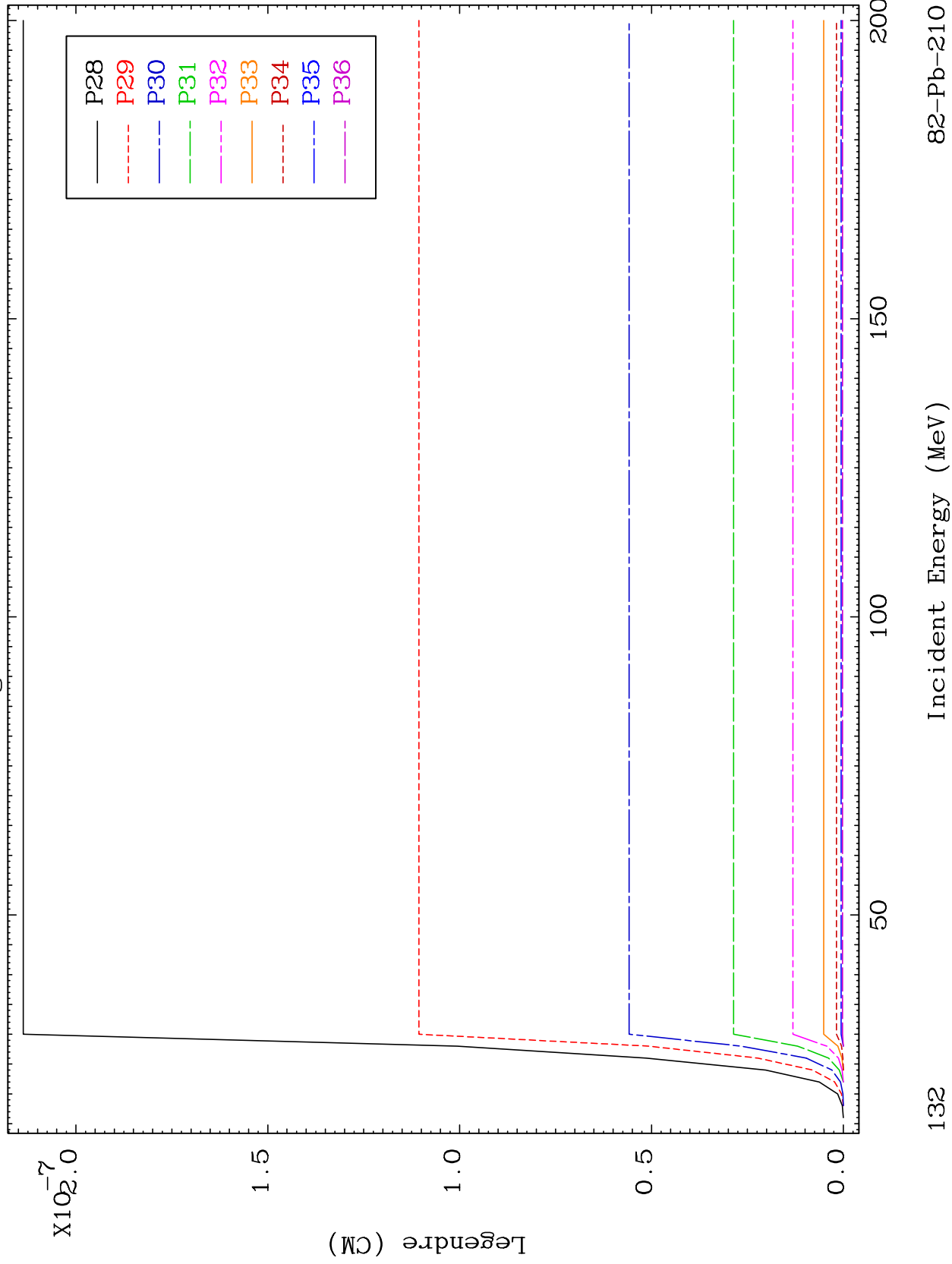
82-Pb-210



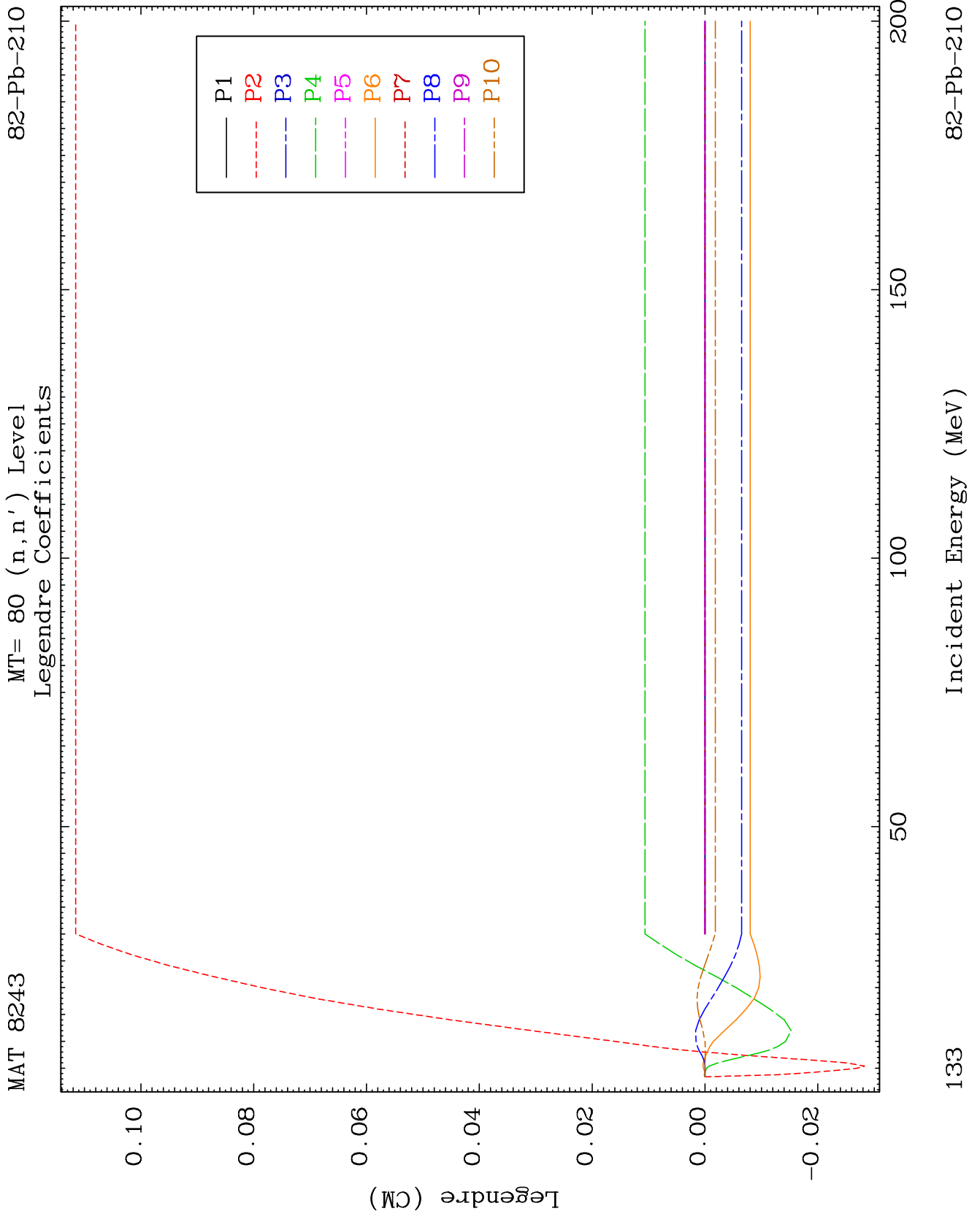
MAT 8243

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

82-Pb-210



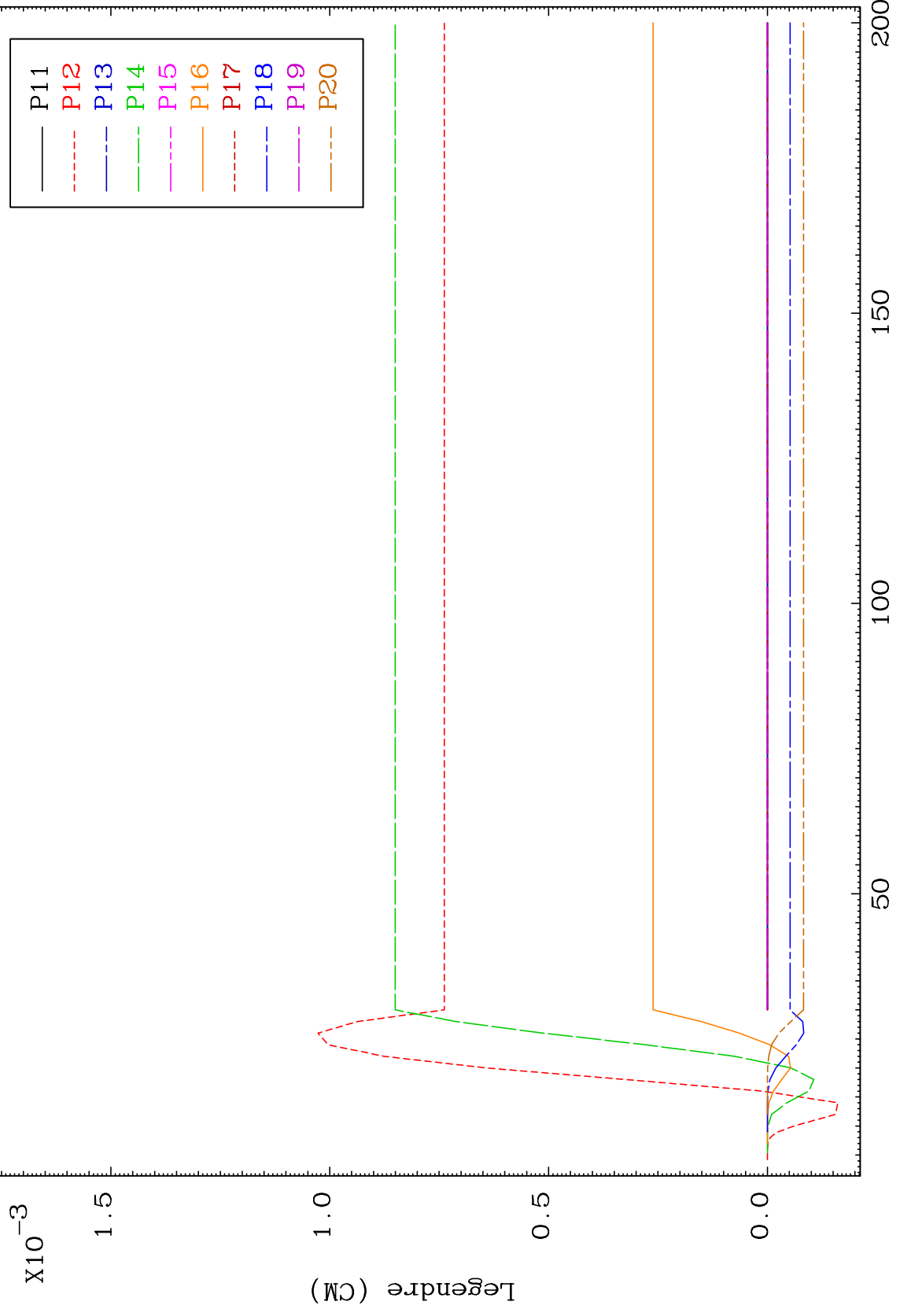
132



MAT 8243

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

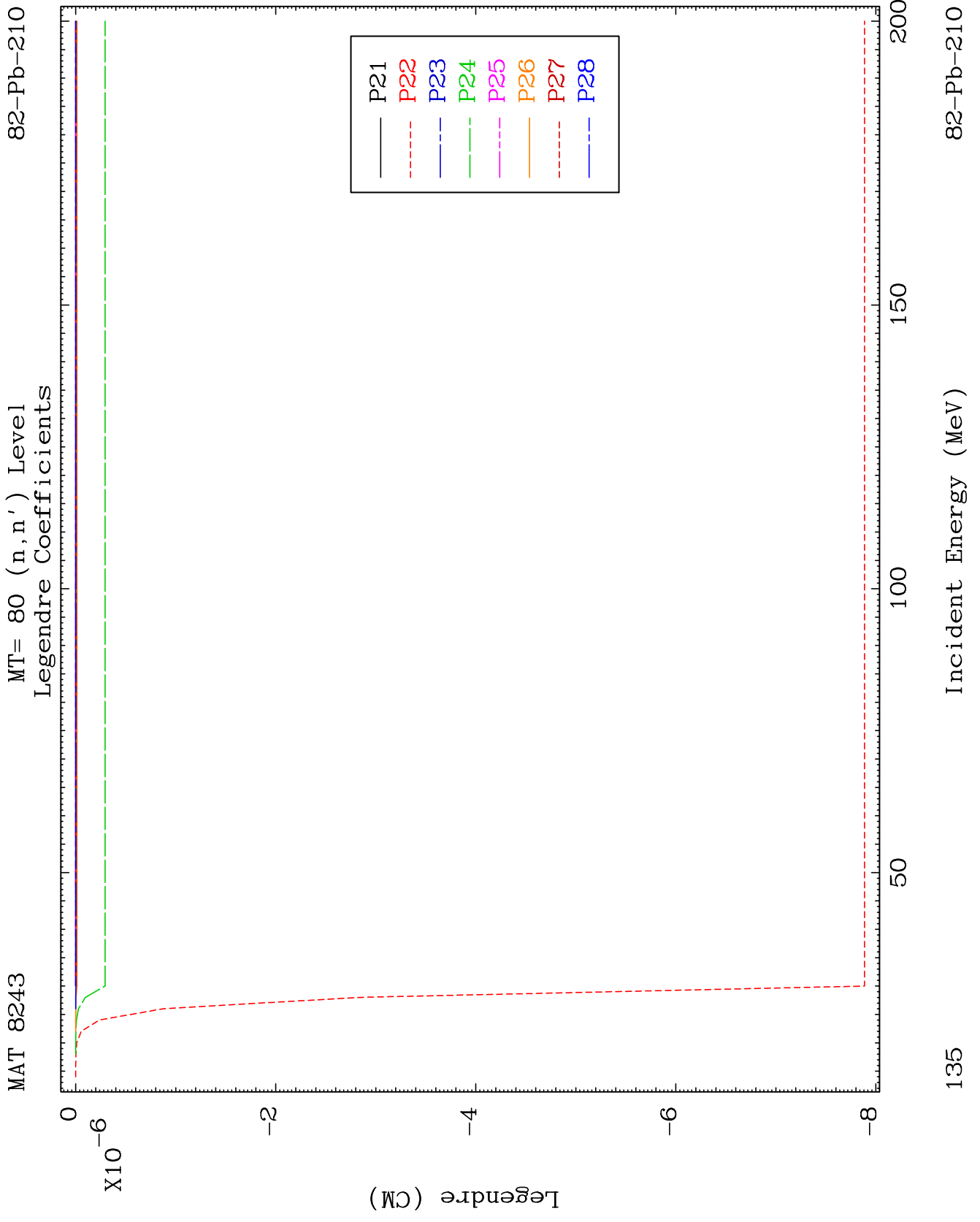
82-Pb-210



134

Incident Energy (MeV)

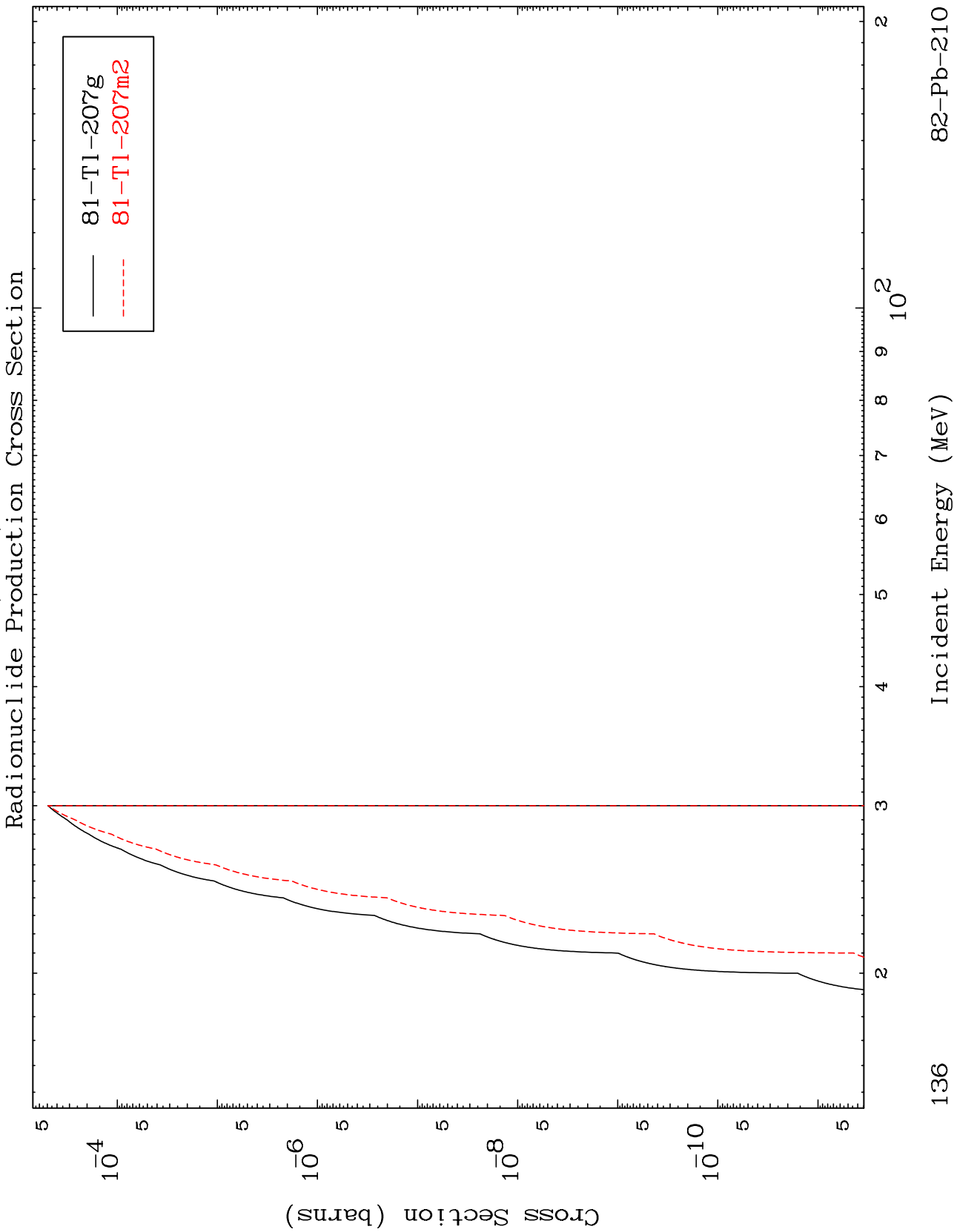
82-Pb-210



MAT 8243

(n,2n) d

82-Pb-210



136

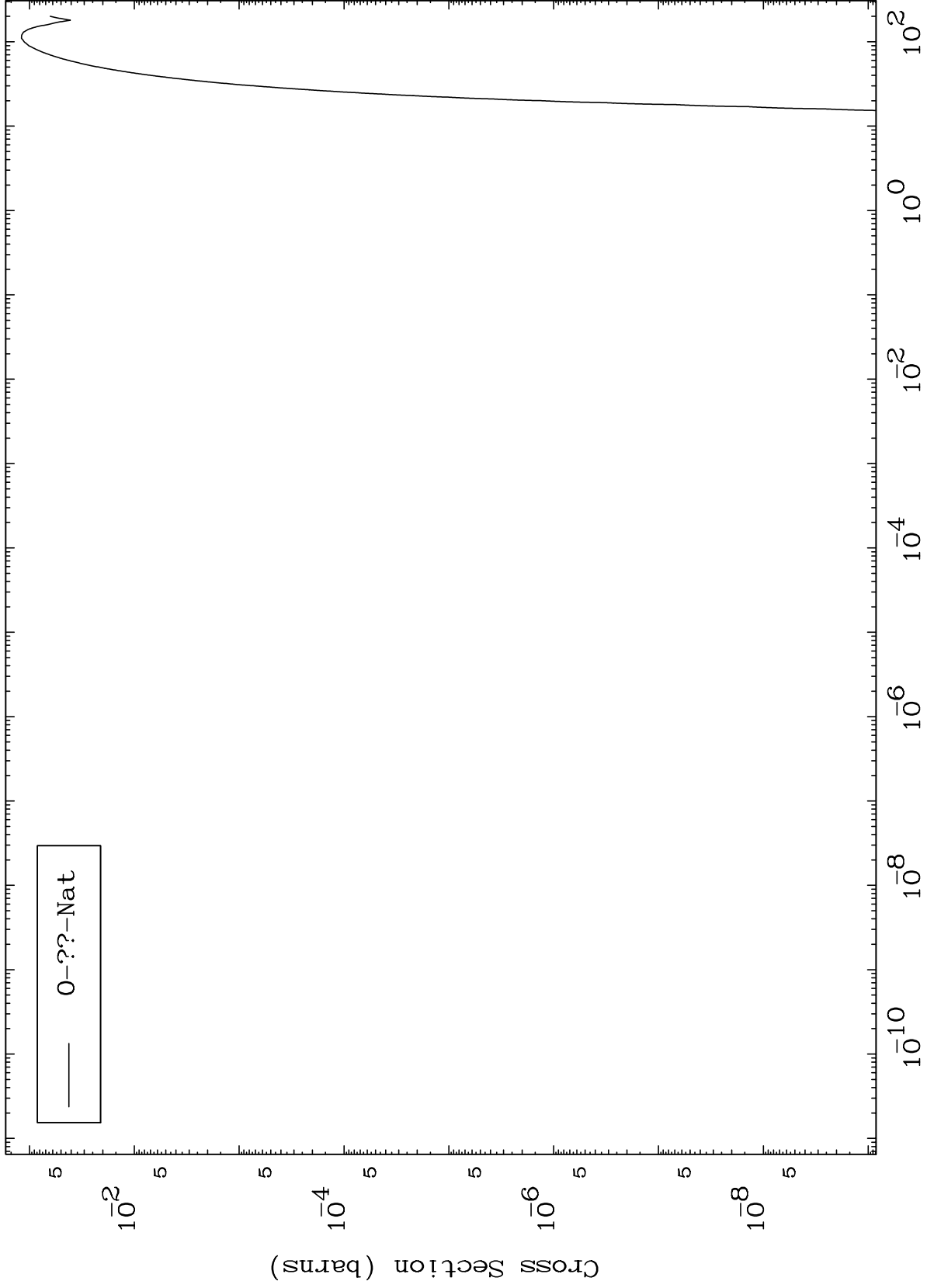
82-Pb-210

MAT 8243

Fission

82-Pb-210

Radionuclide Production Cross Section



137

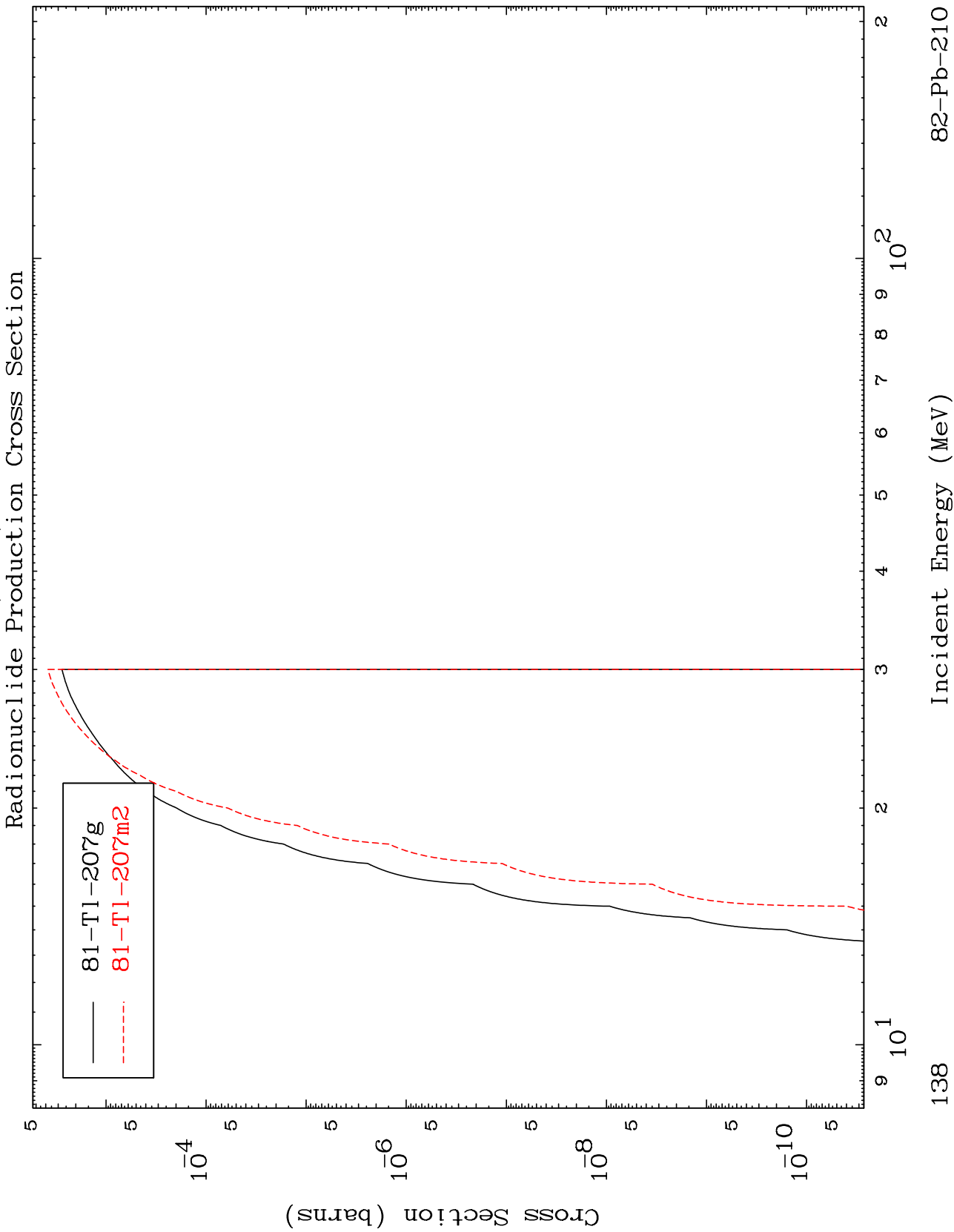
Incident Energy (MeV)

82-Pb-210

MAT 8243

(n,n') t

82-Pb-210



138

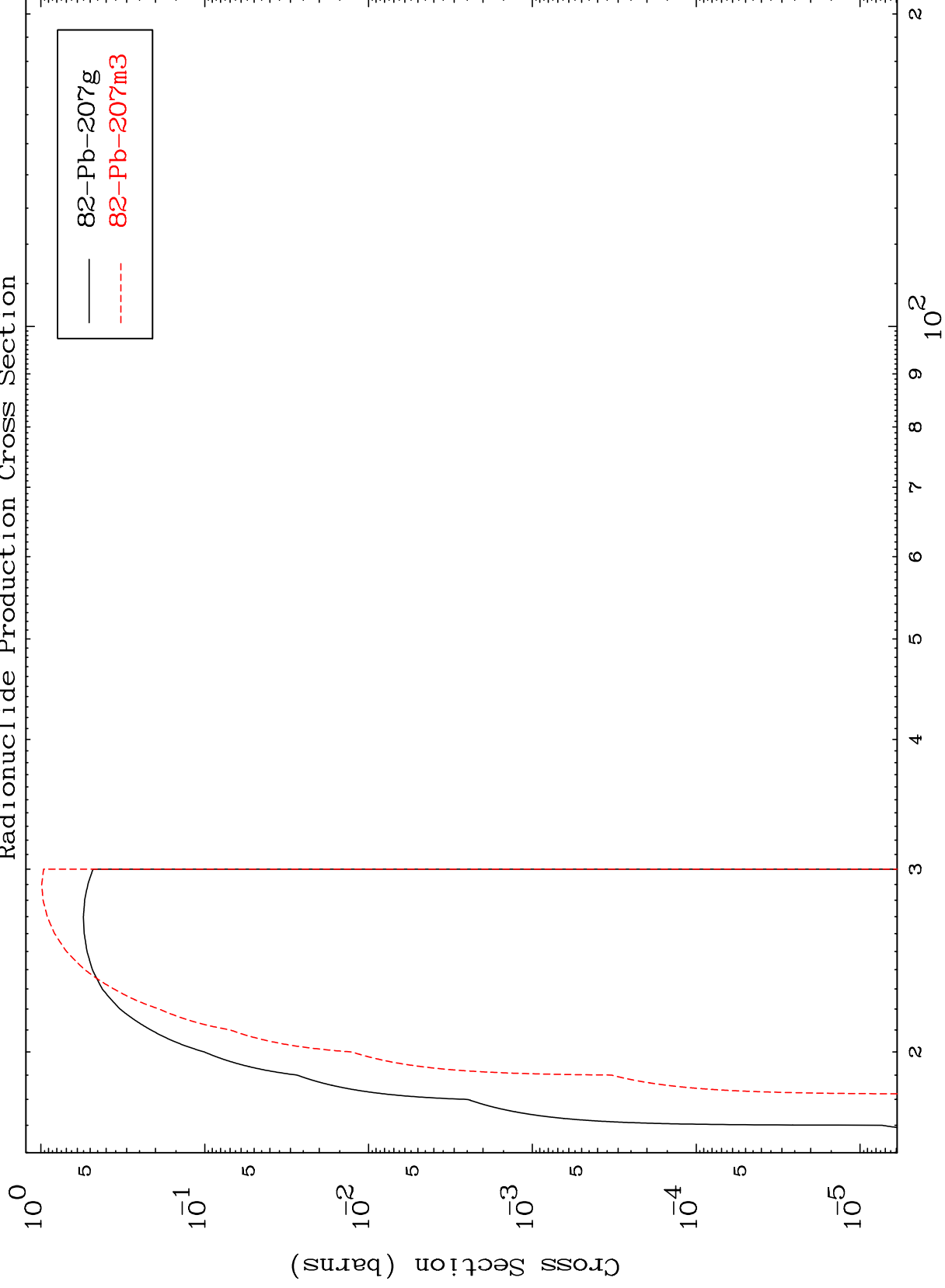
82-Pb-210

MAT 8243

(n,4n)

82-Pb-210

Radionuclide Production Cross Section



139

Incident Energy (MeV)

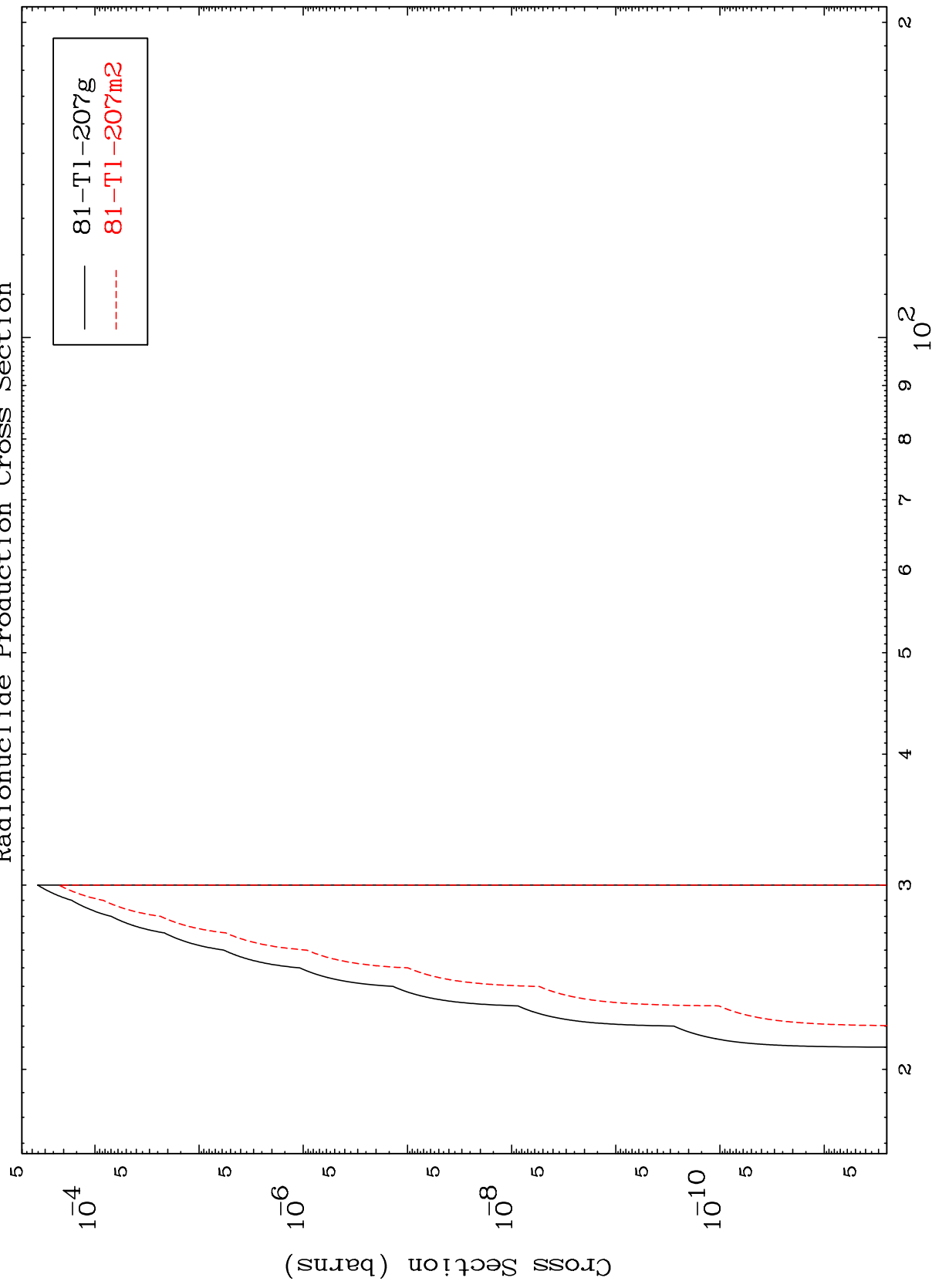
82-Pb-210

MAT 8243

(n,3n) p

82-Pb-210

Radionuclide Production Cross Section



140

Incident Energy (MeV)

82-Pb-210