

Program EVALPLOT  
(Version 2018-1)

by

Dermott E. Cullen  
(Present Contact Information)

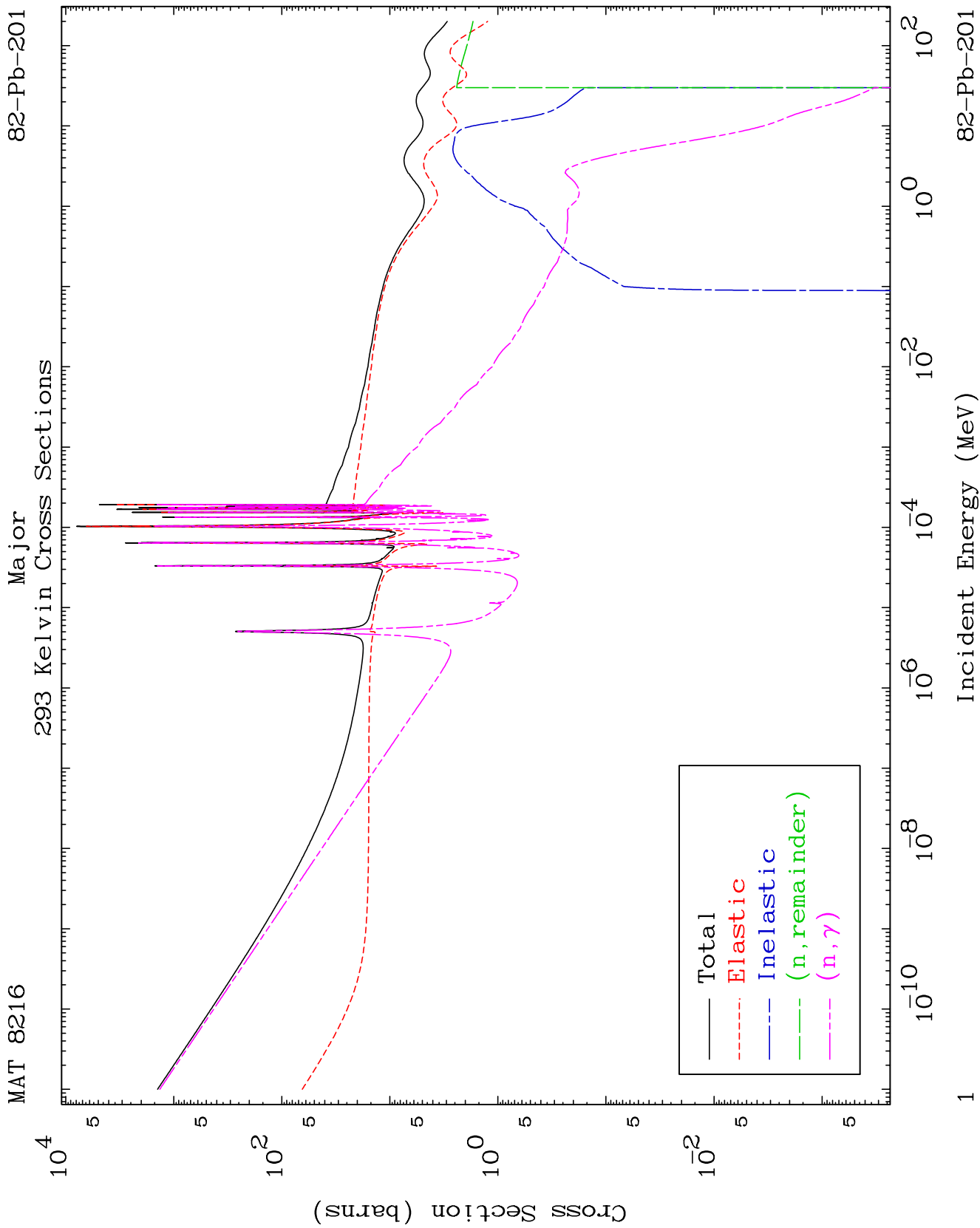
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Web:redcullen1.net/HOMEPAGE.NEW

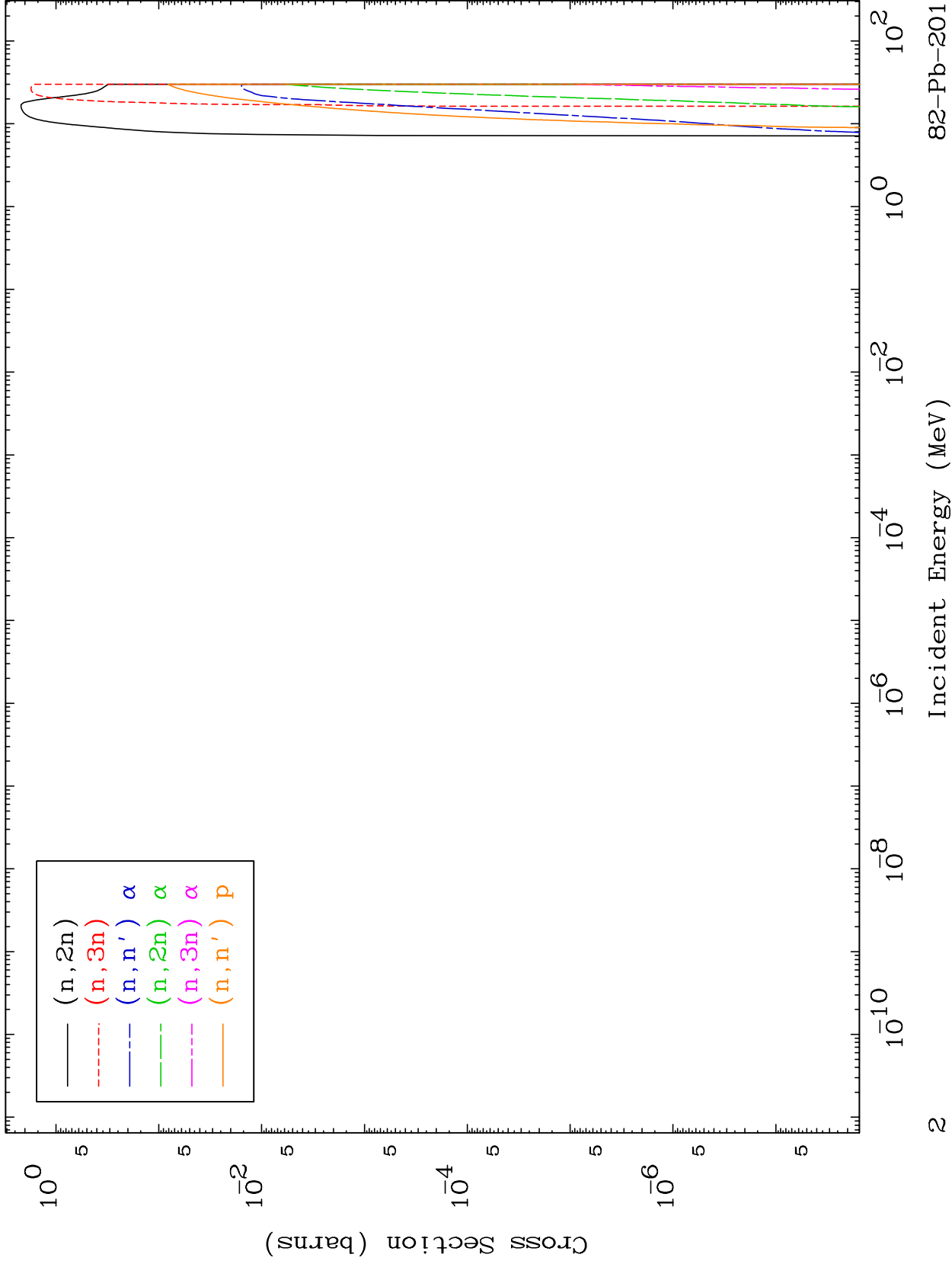
Press Mouse Button to Start



MAT 8216

Neutron Production  
293 Kelvin Cross Sections

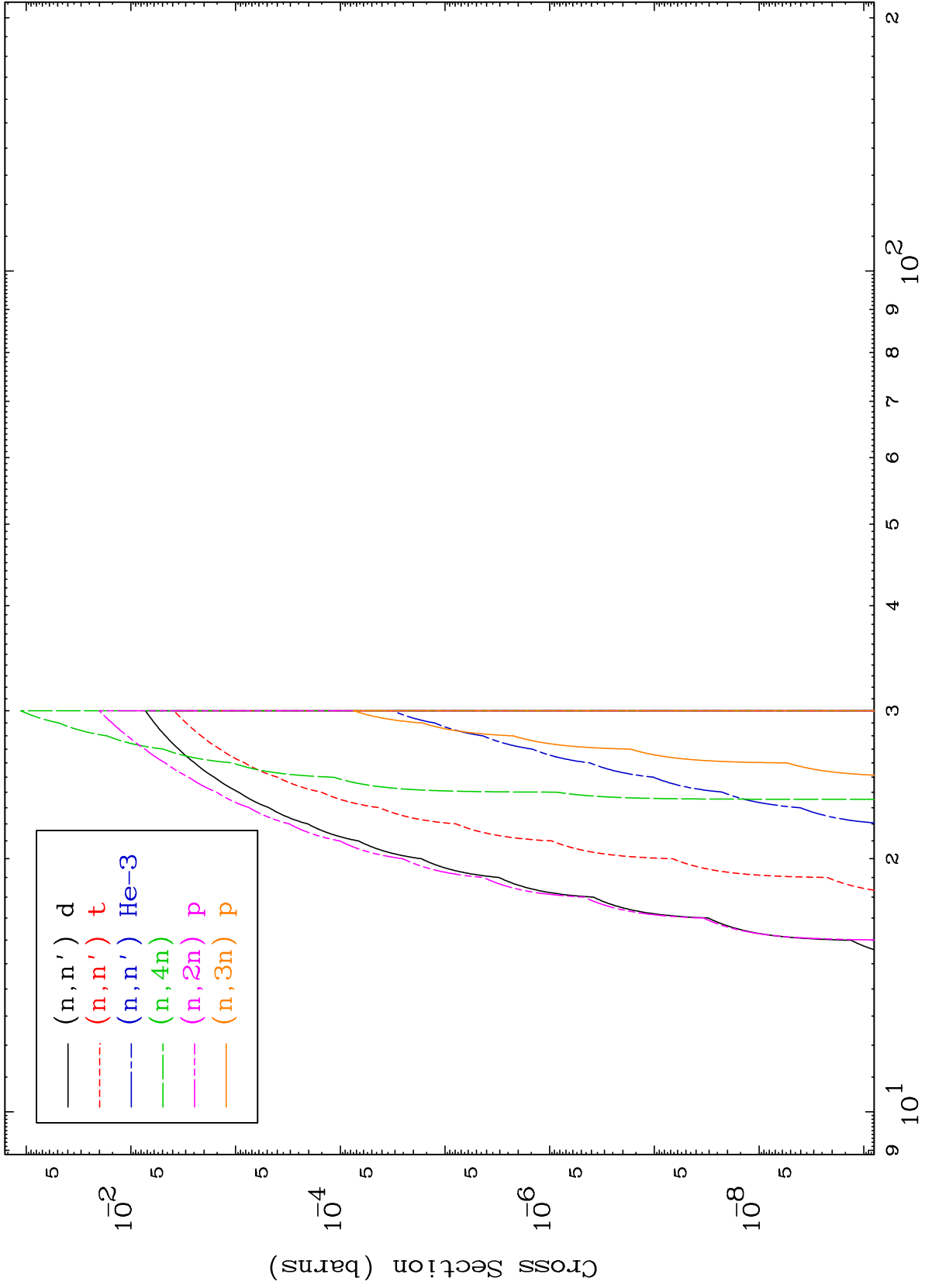
82-Pb-201



MAT 8216

Neutron Production  
293 Kelvin Cross Sections

82-Pb-201



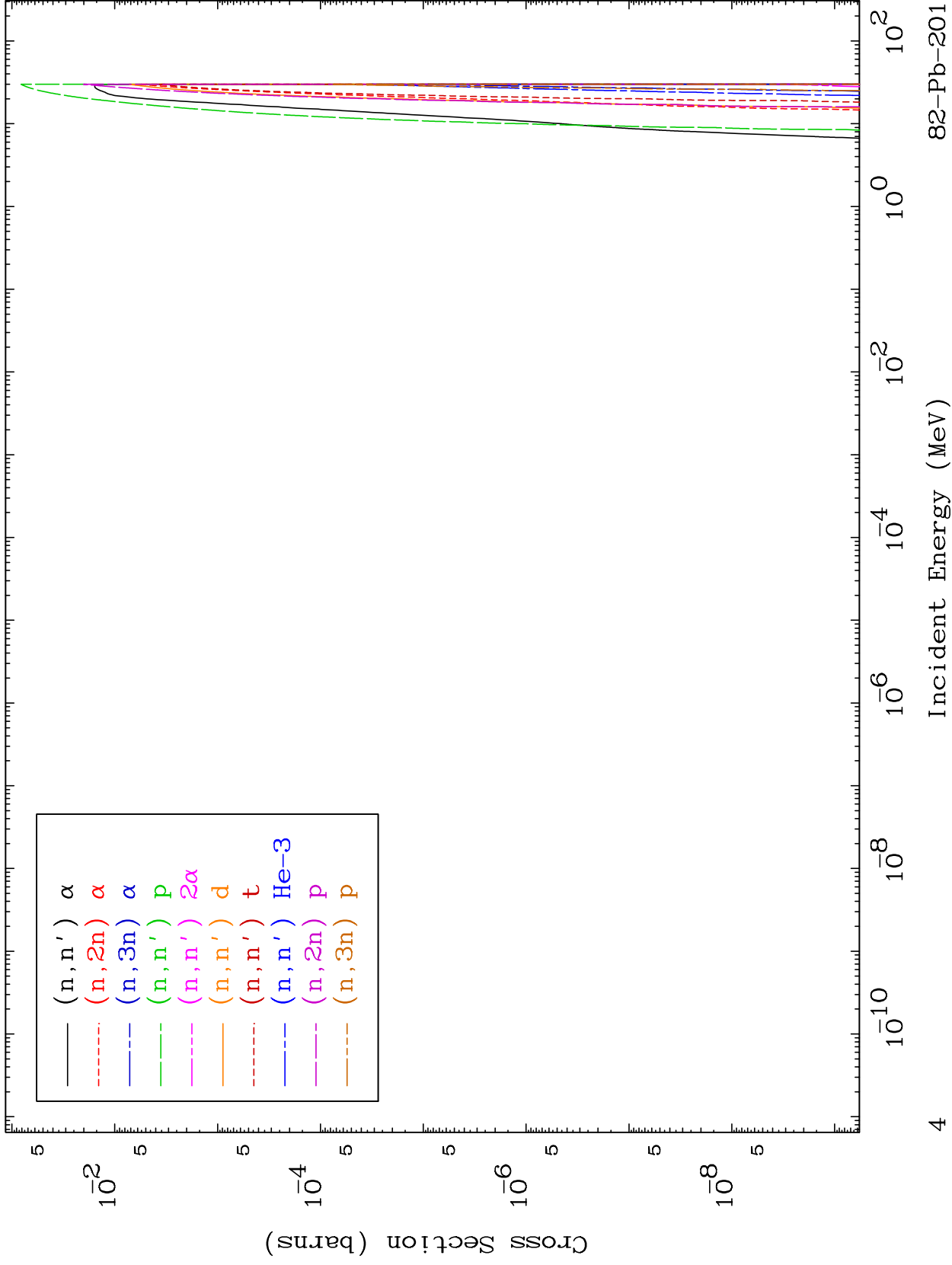
Incident Energy (MeV)

82-Pb-201

MAT 8216

Charged Particle  
293 Kelvin Cross Sections

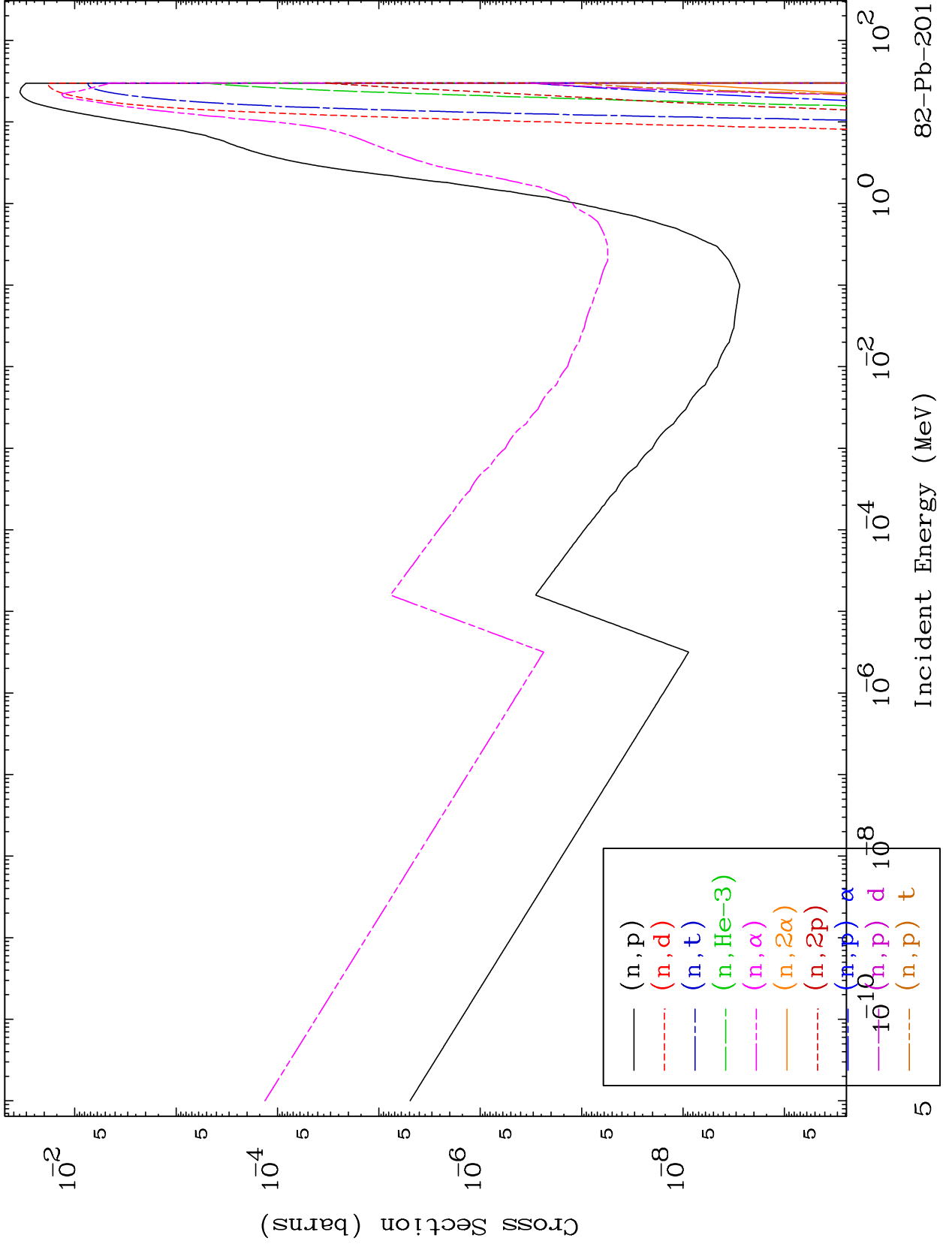
82-Pb-201



MAT 8216

Charged Particle  
293 Kelvin Cross Sections

82-Pb-201

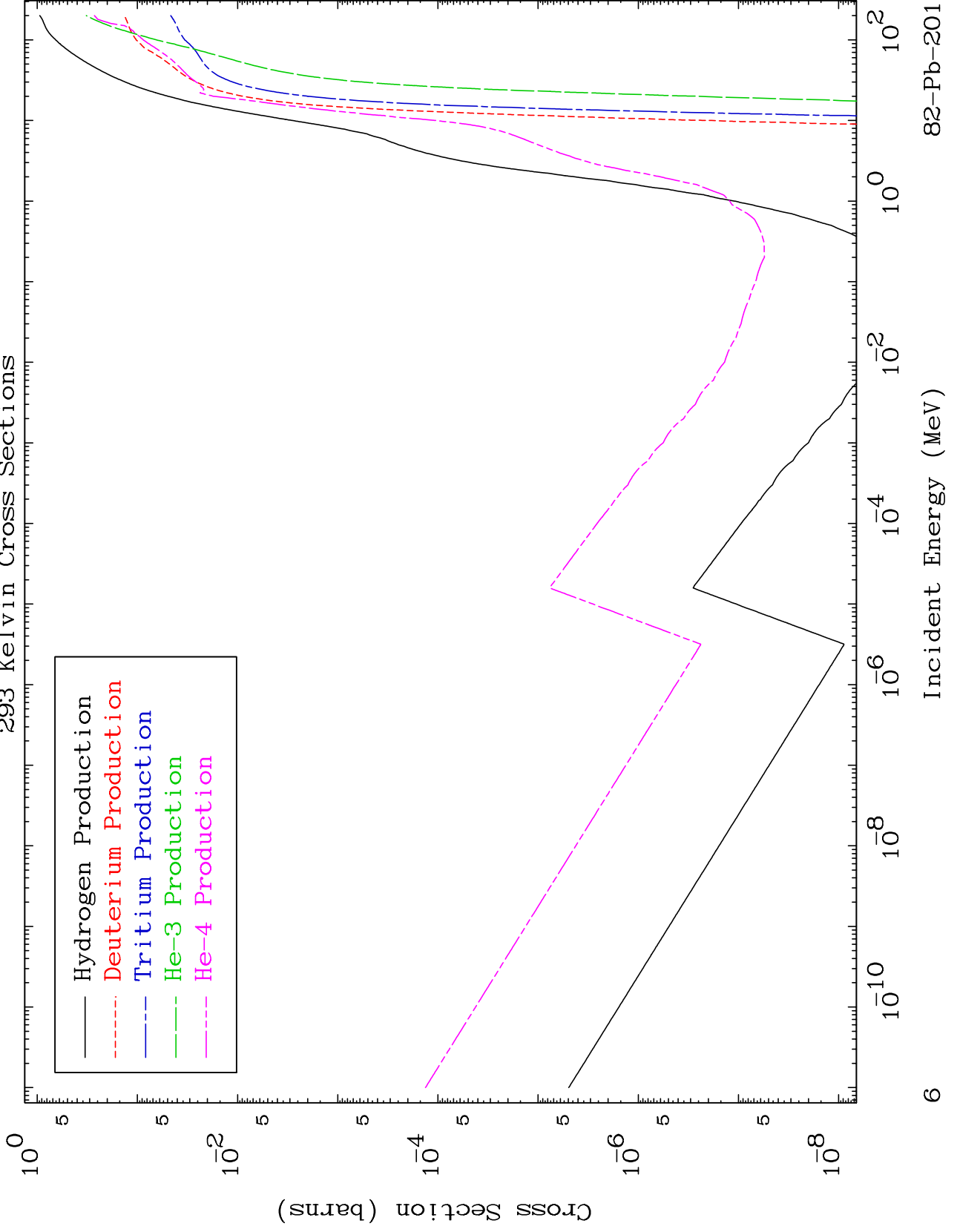


82-Pb-201

MAT 8216

Particle Production  
293 Kelvin Cross Sections

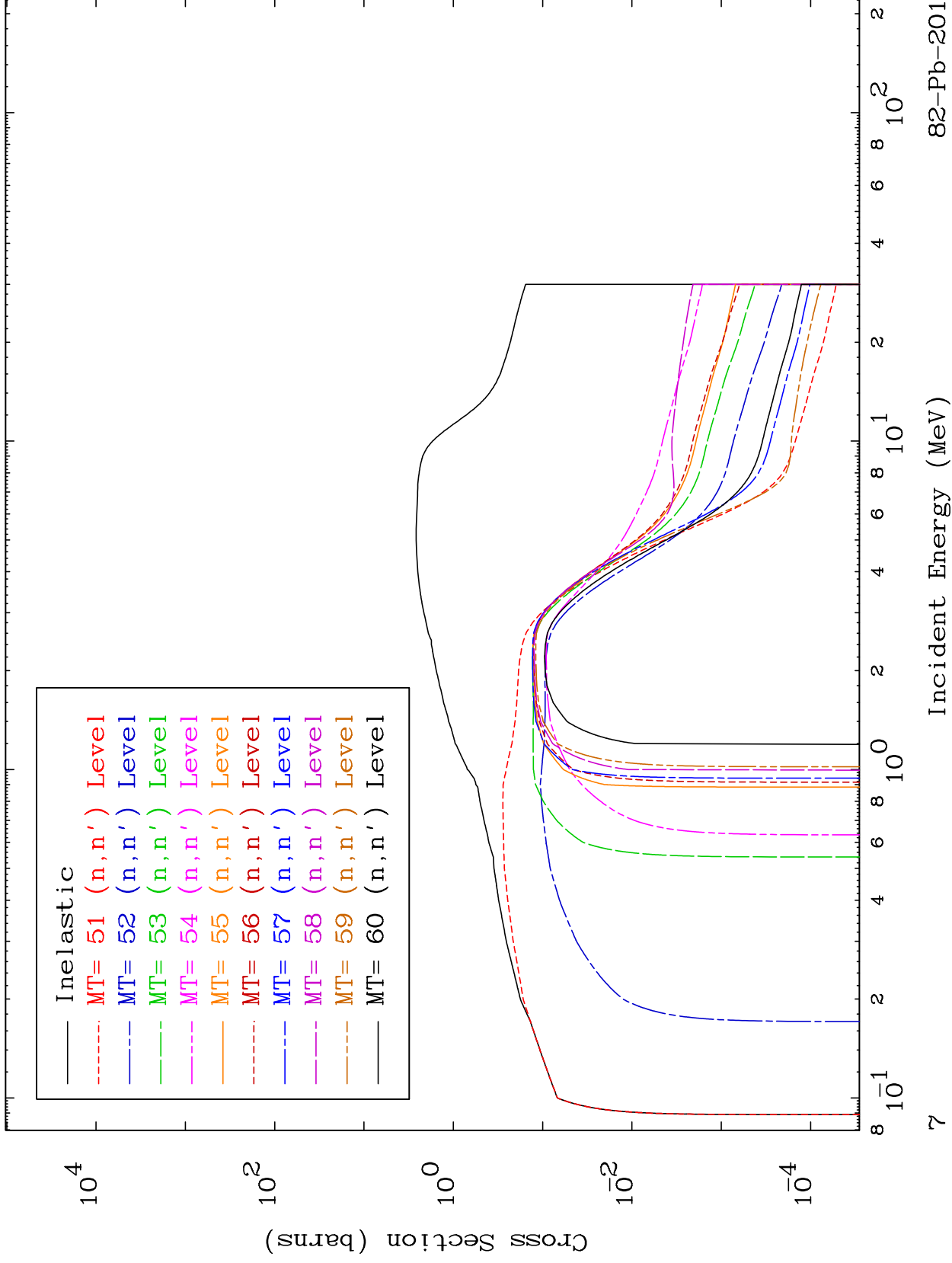
82-Pb-201



MAT 8216

(n,n') Level  
293 Kelvin Cross Sections

82-Pb-201



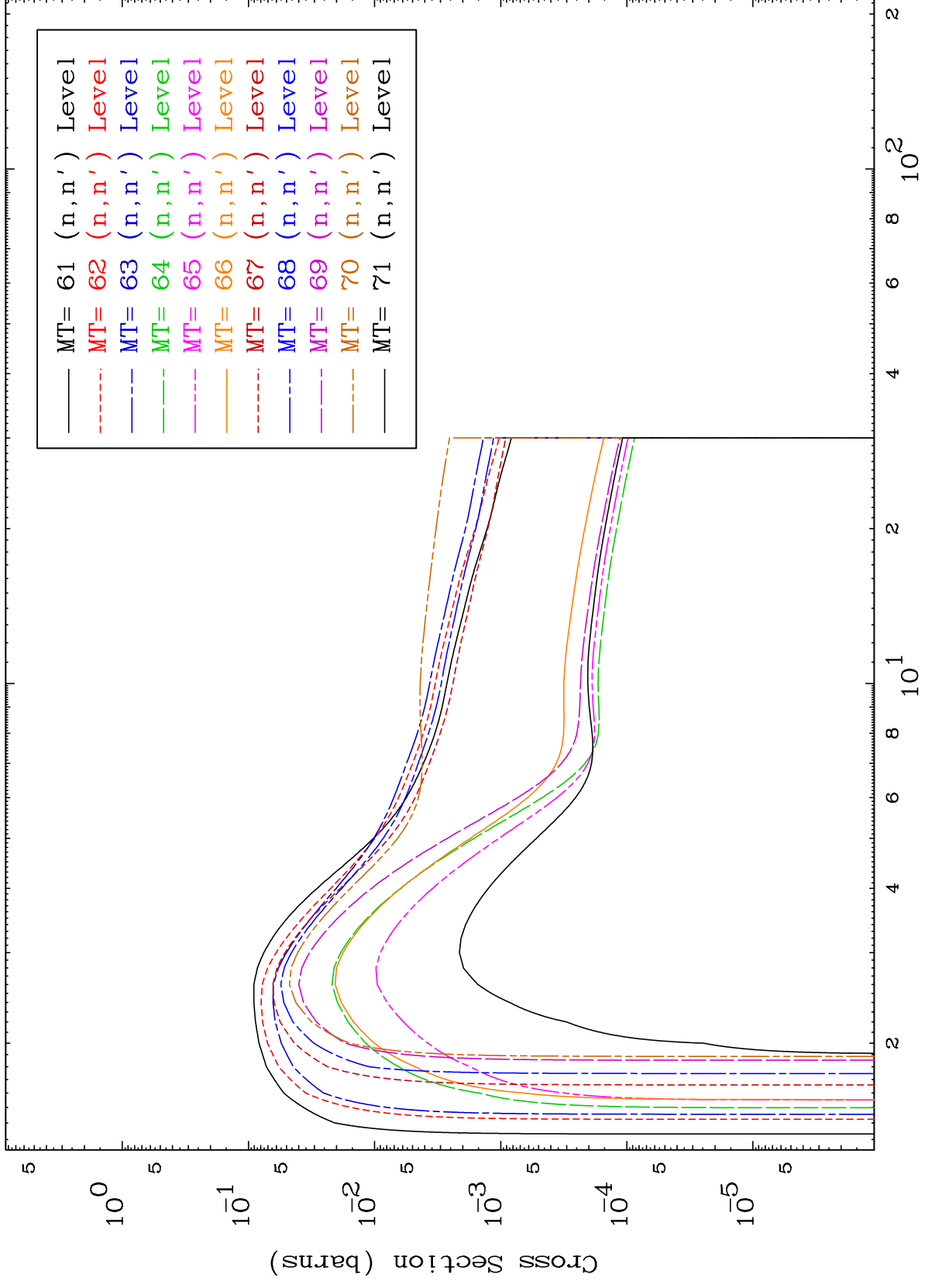


MAT 8216

(n,n') Level

82-Pb-201

293 Kelvin Cross Sections



8

Incident Energy (MeV)

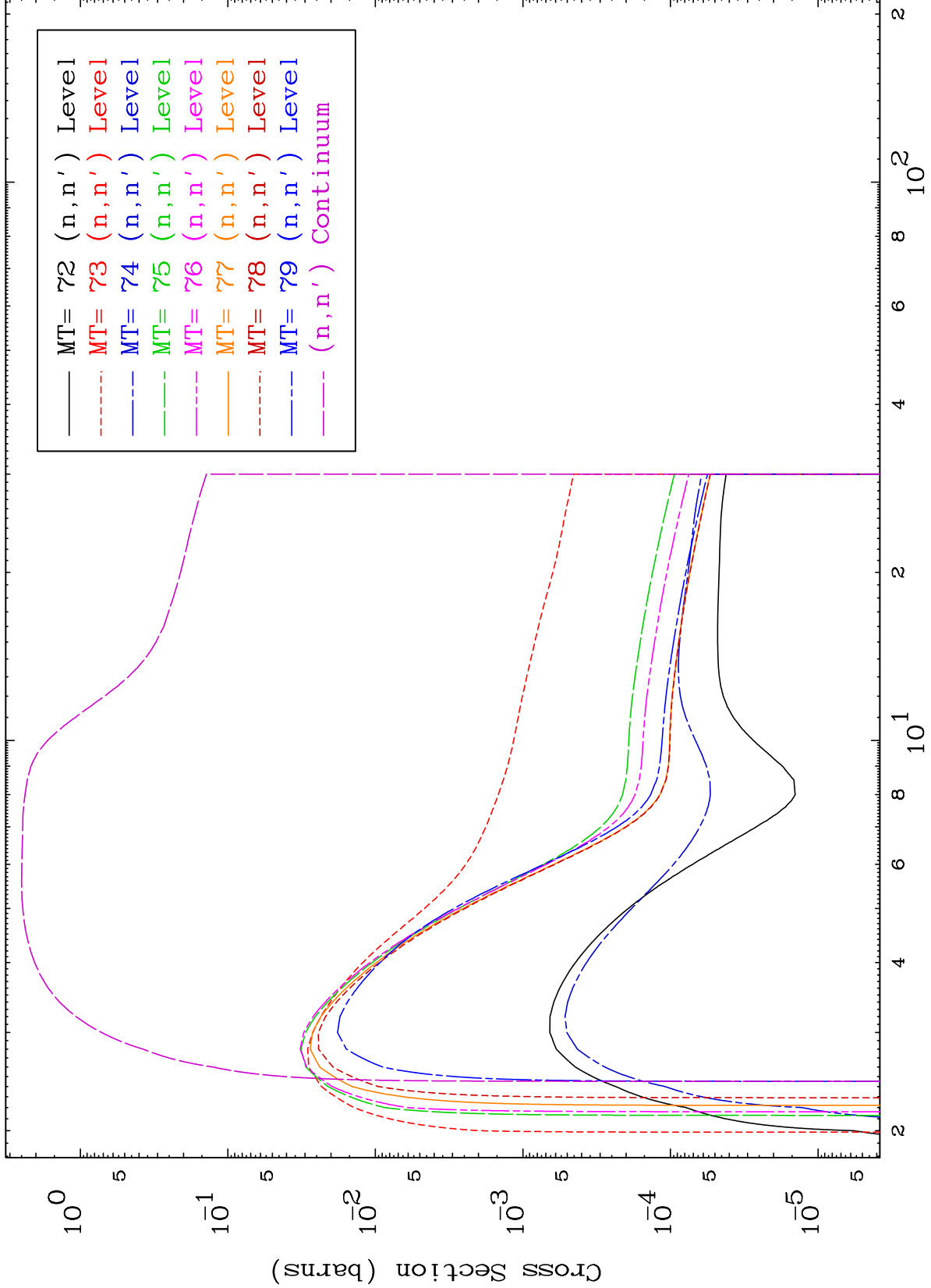
82-Pb-201

MAT 8216

(n,n') Level

82-Pb-201

293 Kelvin Cross Sections



9

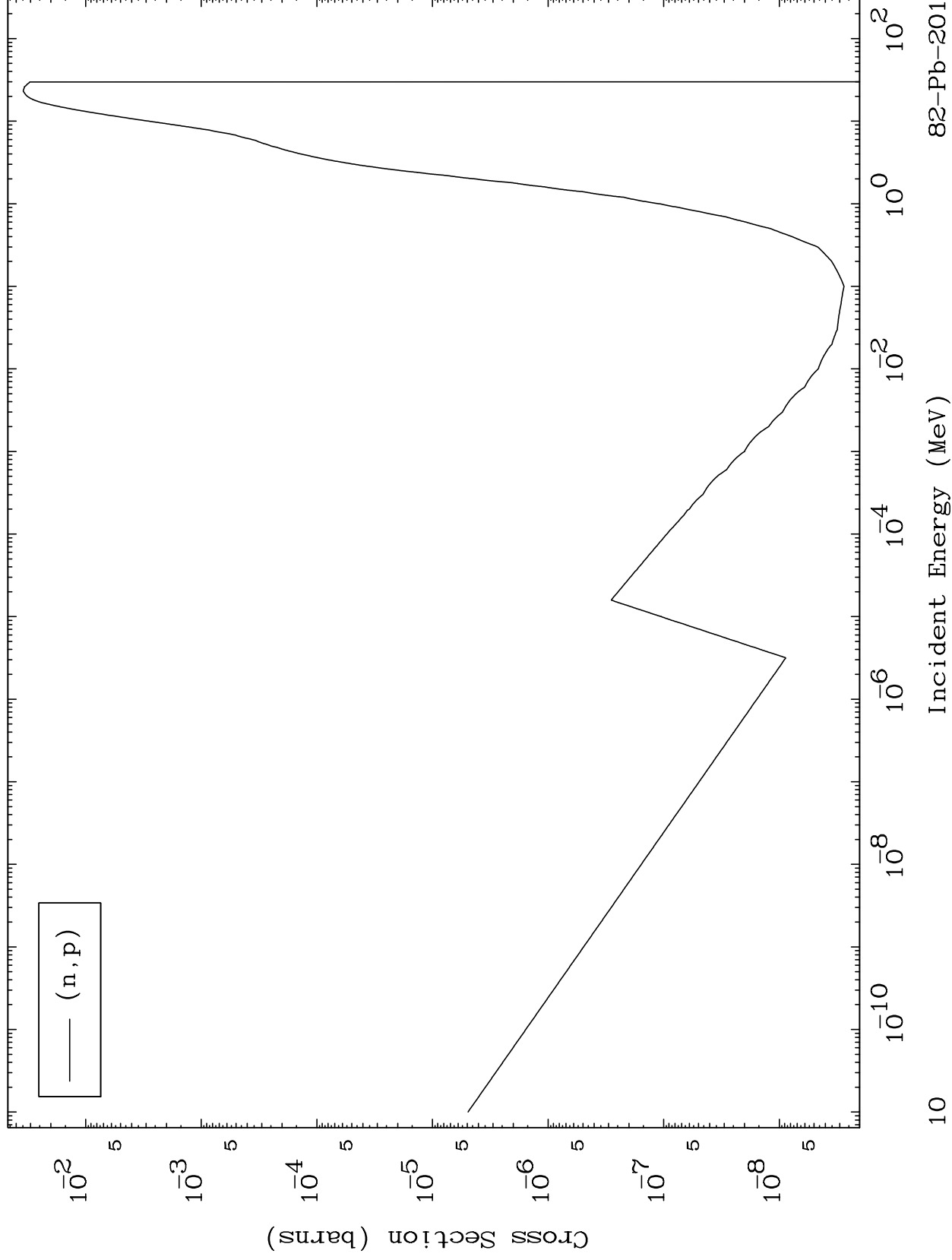
Incident Energy (MeV)

82-Pb-201

MAT 8216

(n,p) Levels  
293 Kelvin Cross Sections

82-Pb-201



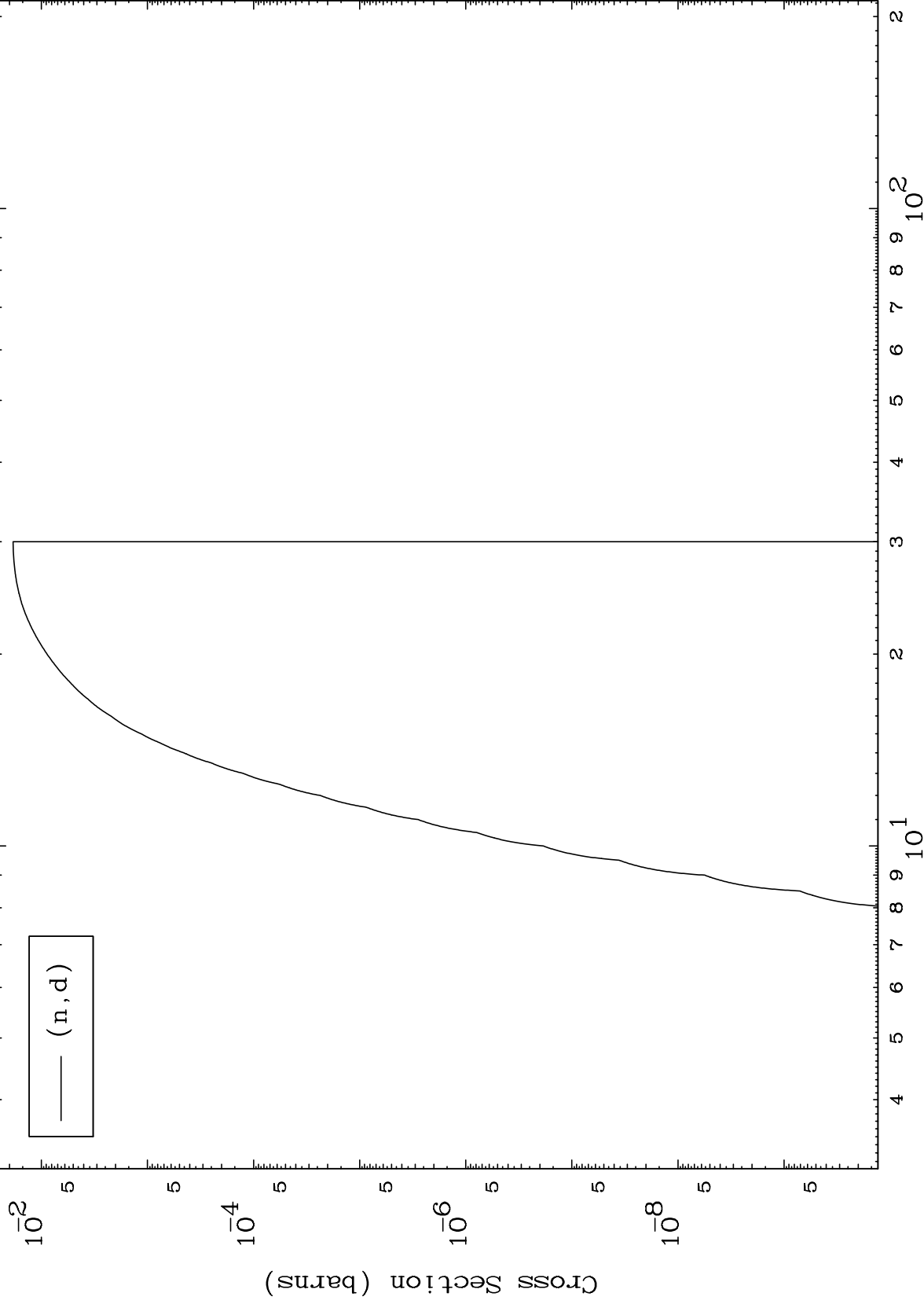
10

82-Pb-201

MAT 8216

(n,d) Levels  
293 Kelvin Cross Sections

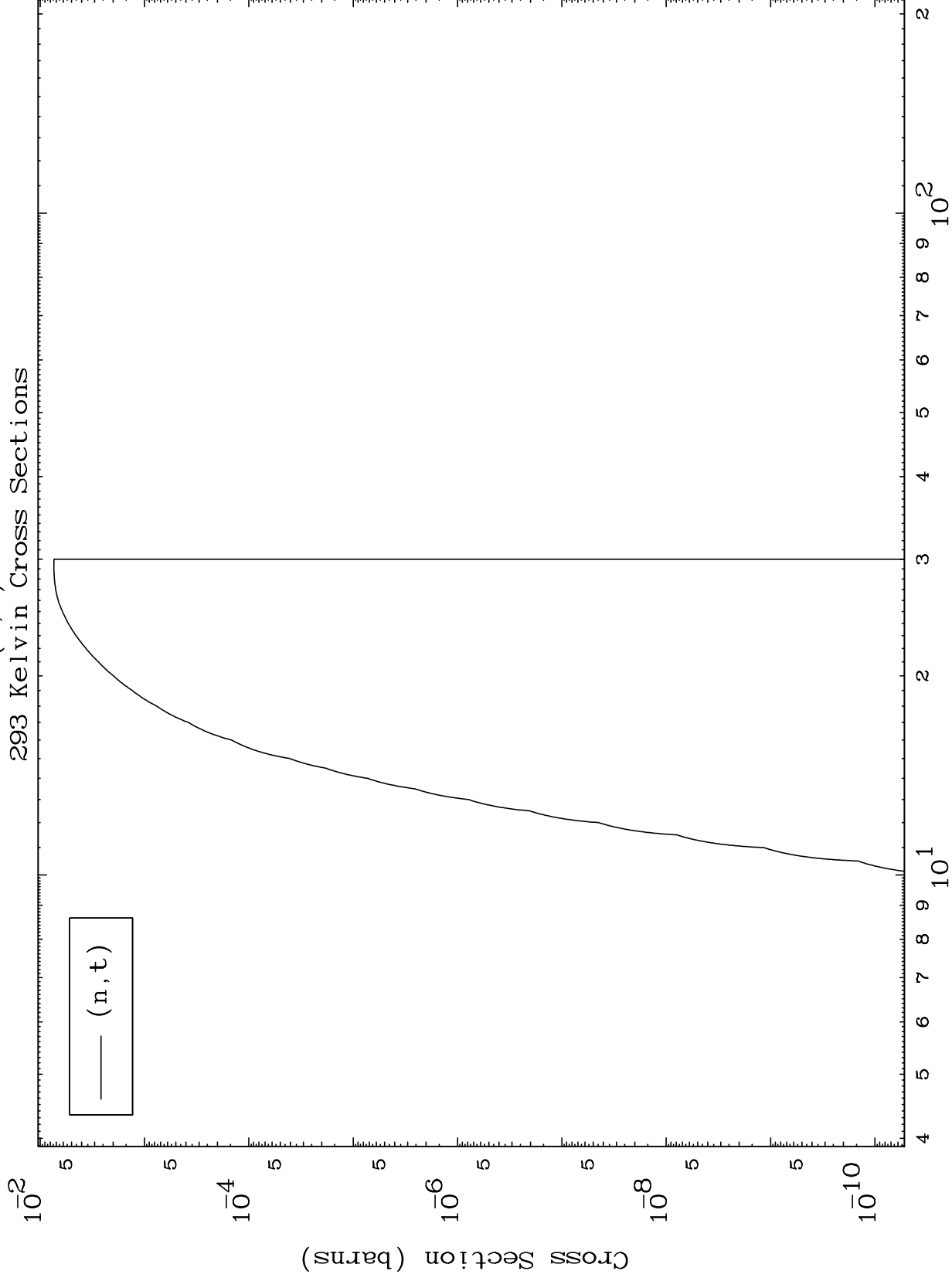
82-Pb-201



MAT 8216

(n,t) Levels  
293 Kelvin Cross Sections

82-Pb-201



12

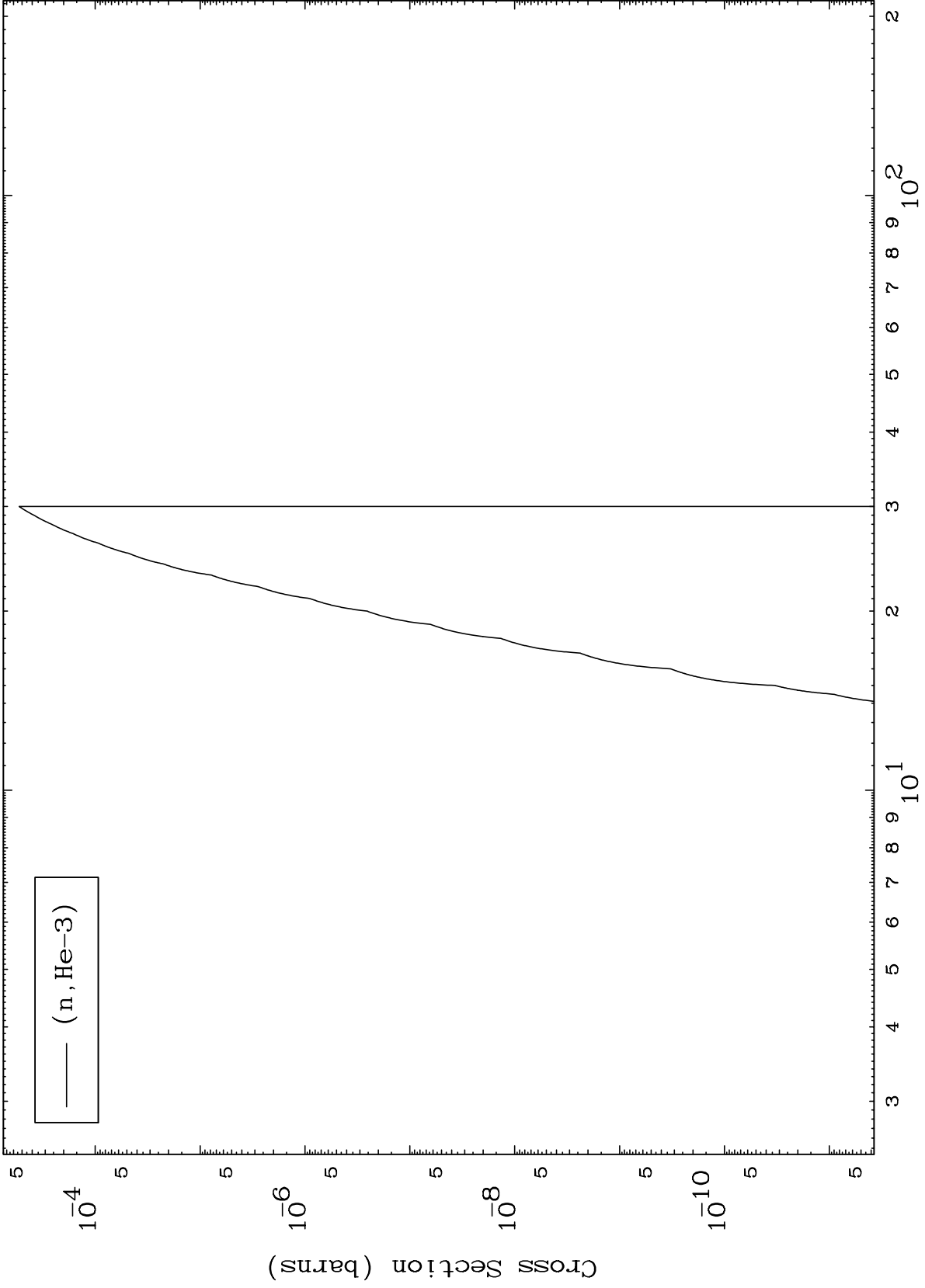
Incident Energy (MeV)

82-Pb-201

MAT 8216

(n,He3) Levels  
293 Kelvin Cross Sections

82-Pb-201



13

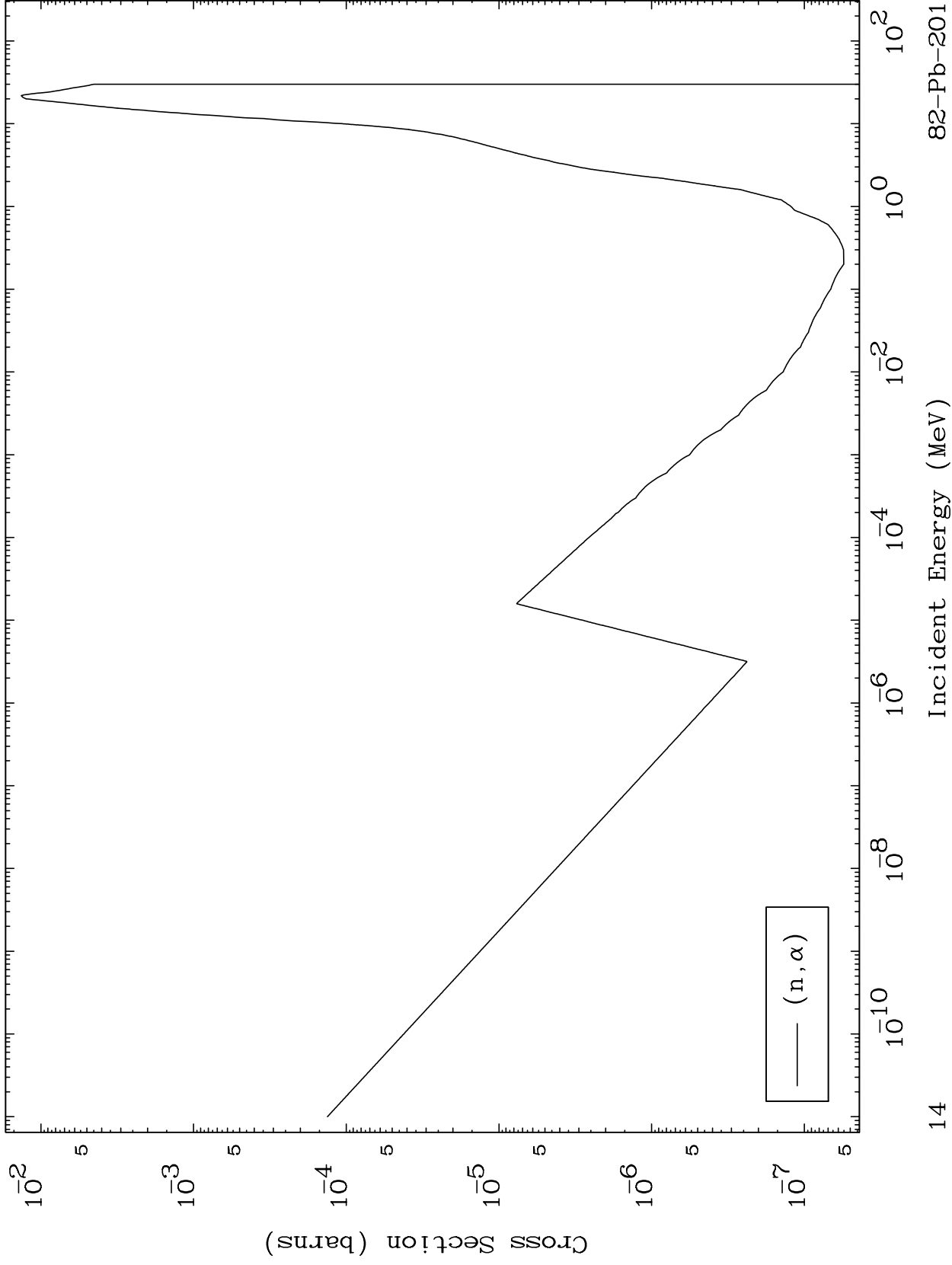
Incident Energy (MeV)

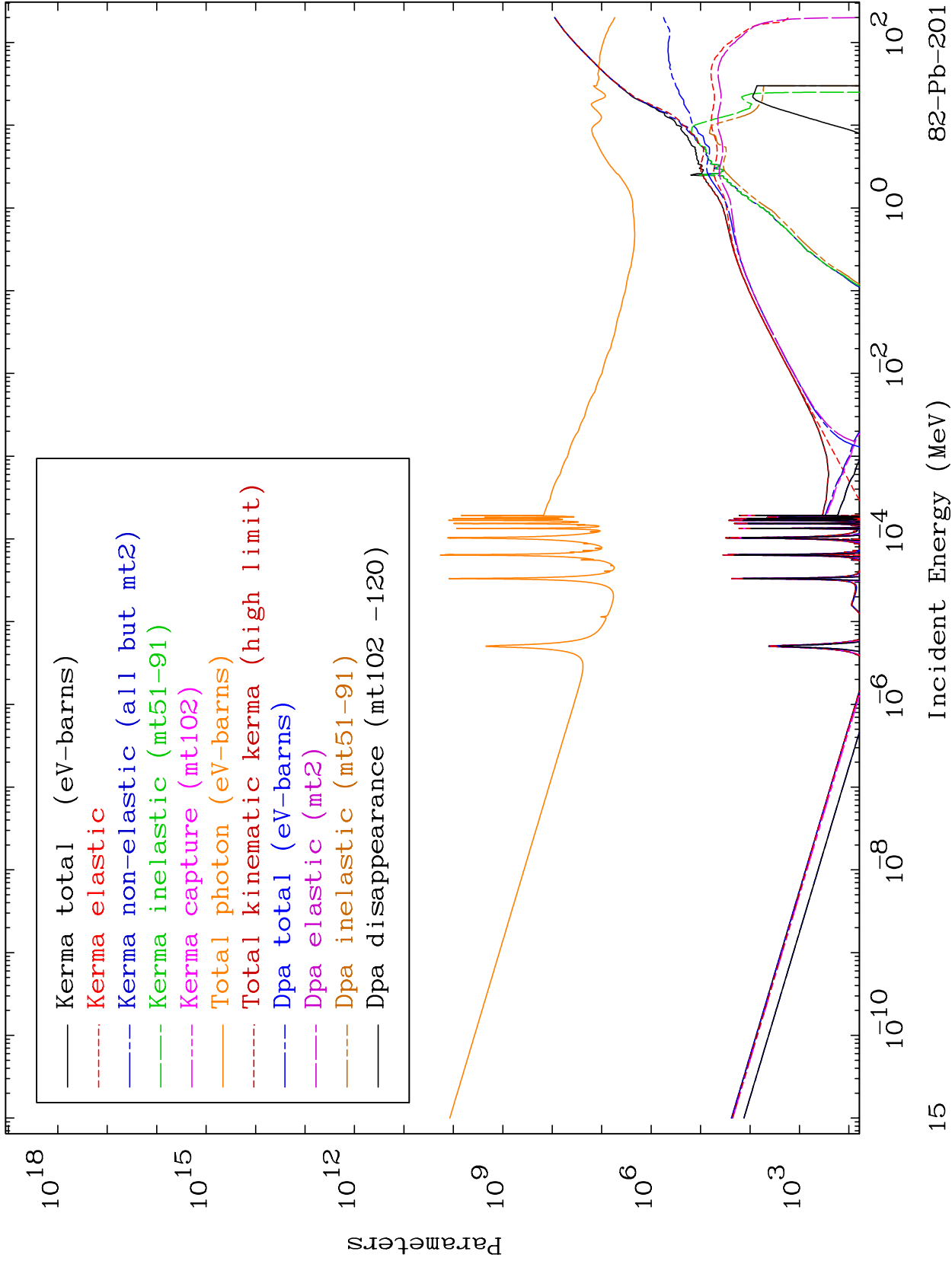
82-Pb-201

MAT 8216

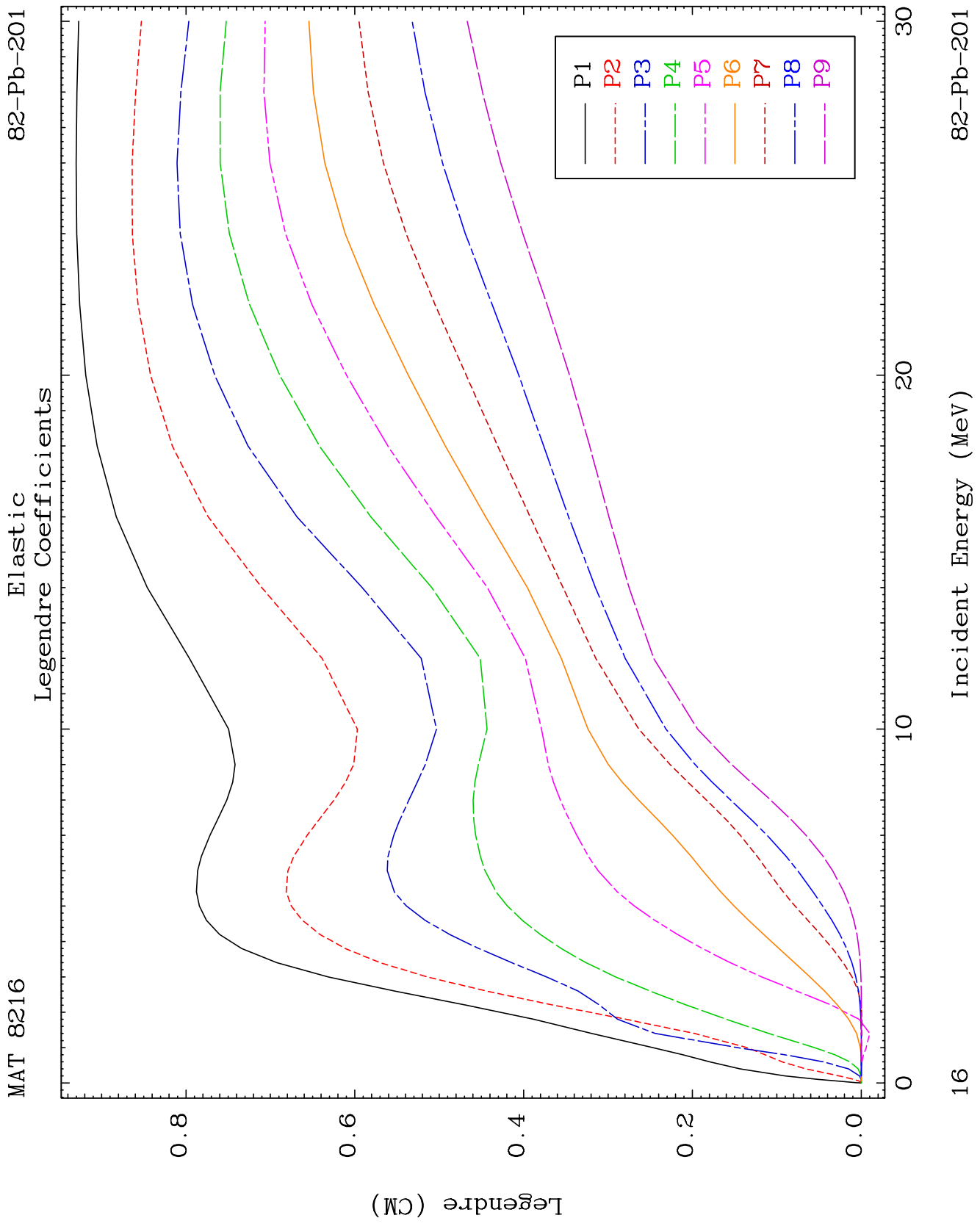
(n,α) Levels  
293 Kelvin Cross Sections

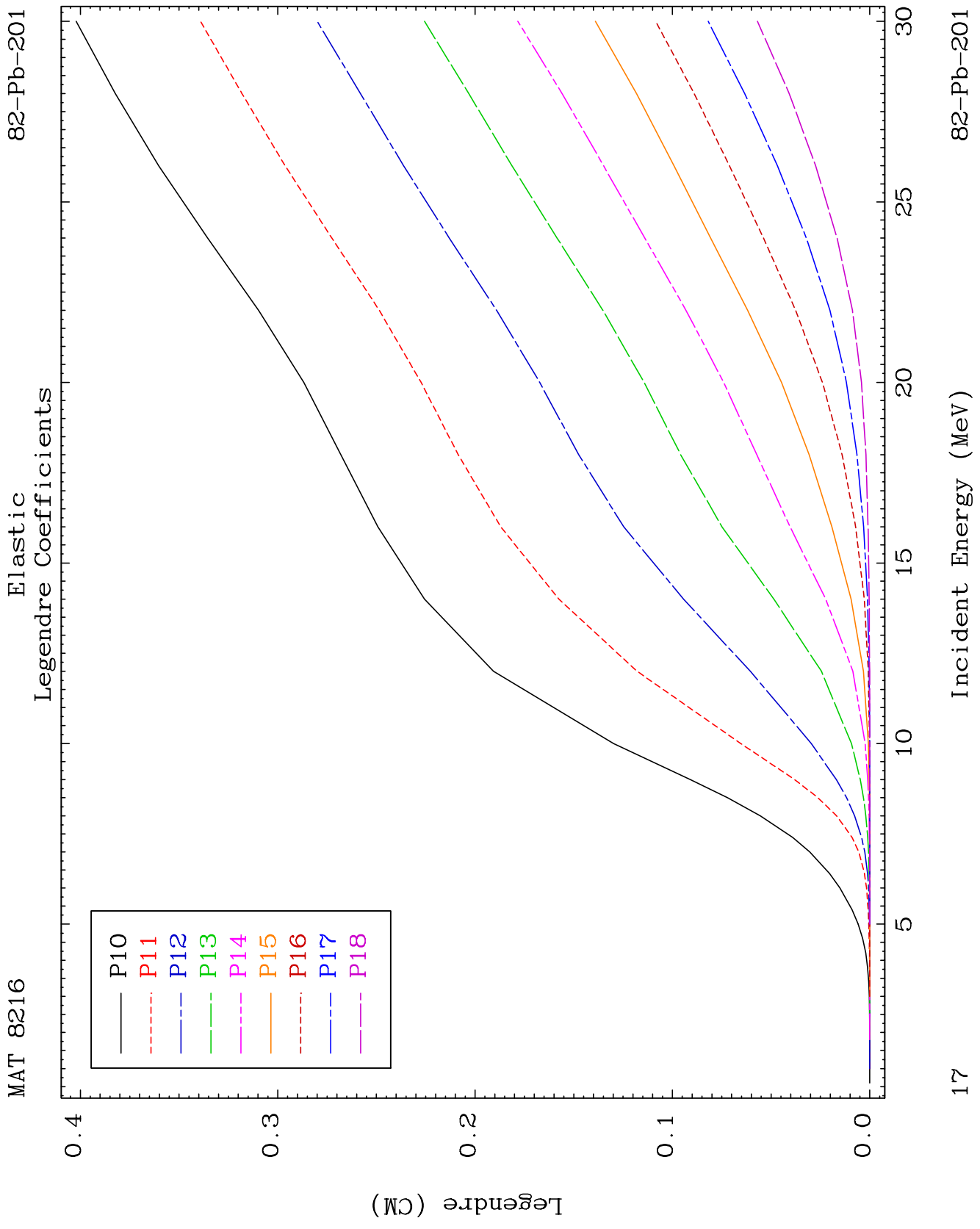
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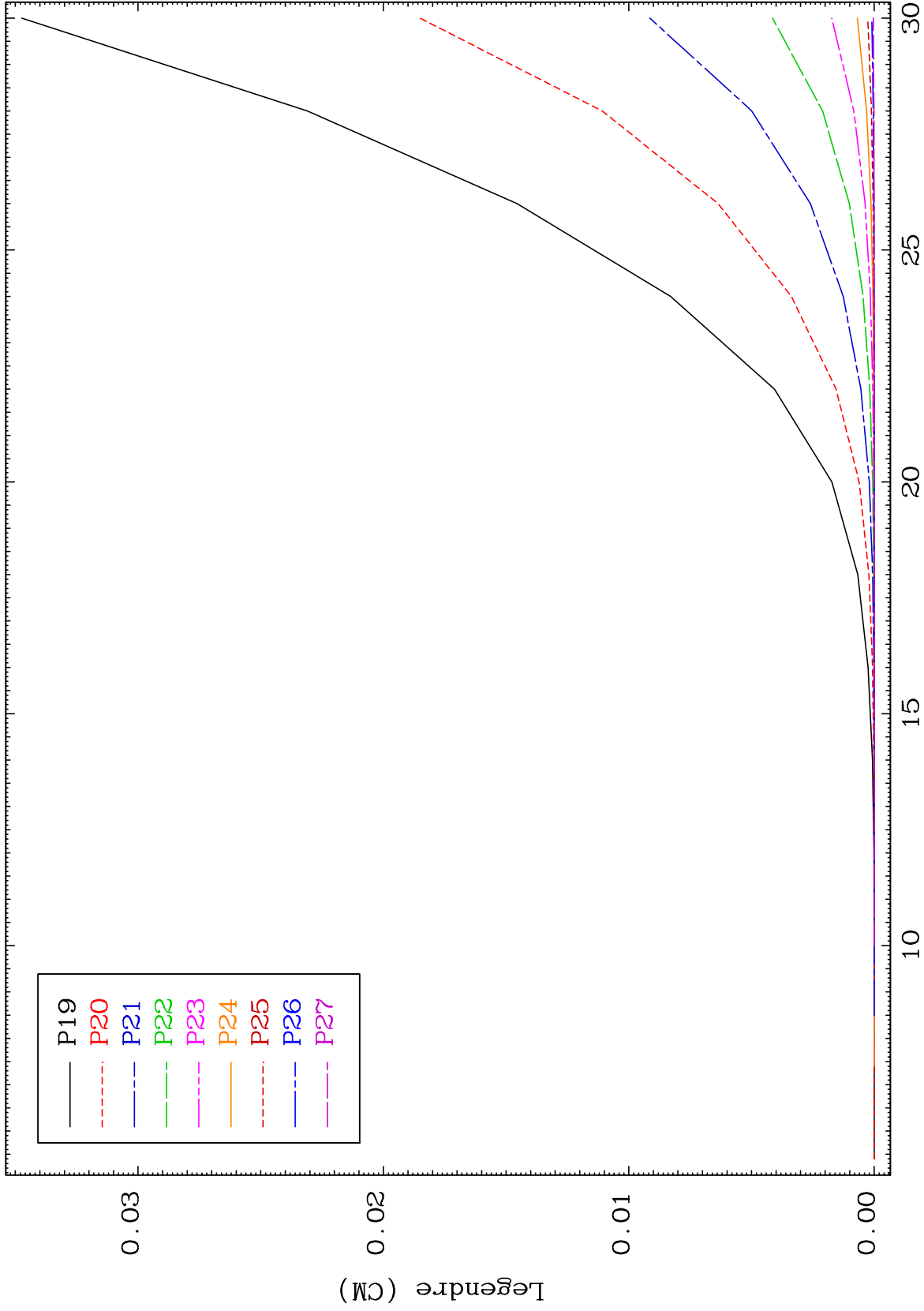




MAT 8216

Elastic  
Legendre Coefficients

82-Pb-201



18

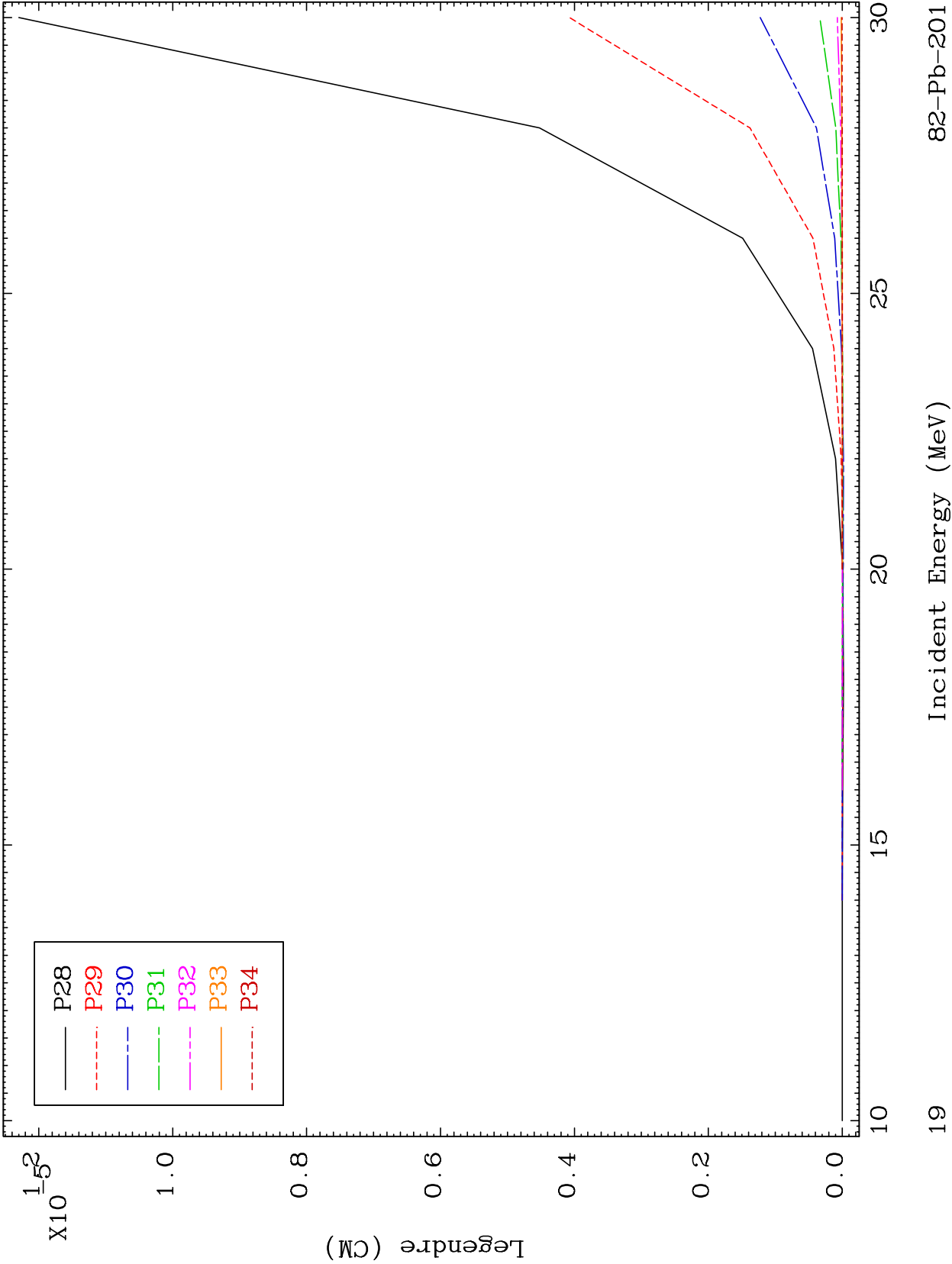
Incident Energy (MeV)

82-Pb-201

MAT 8216

Elastic  
Legendre Coefficients

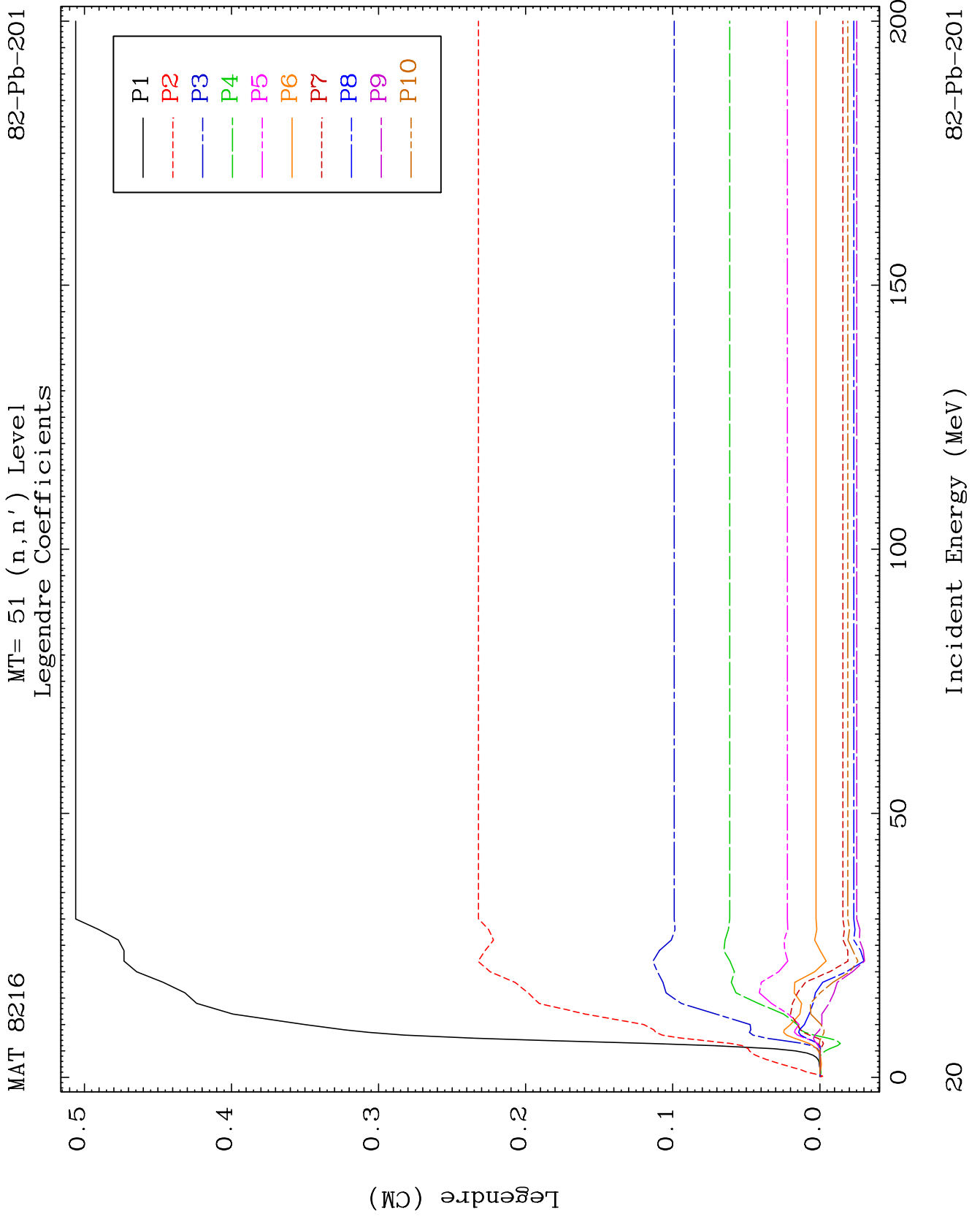
82-Pb-201



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Incident Energy (MeV)

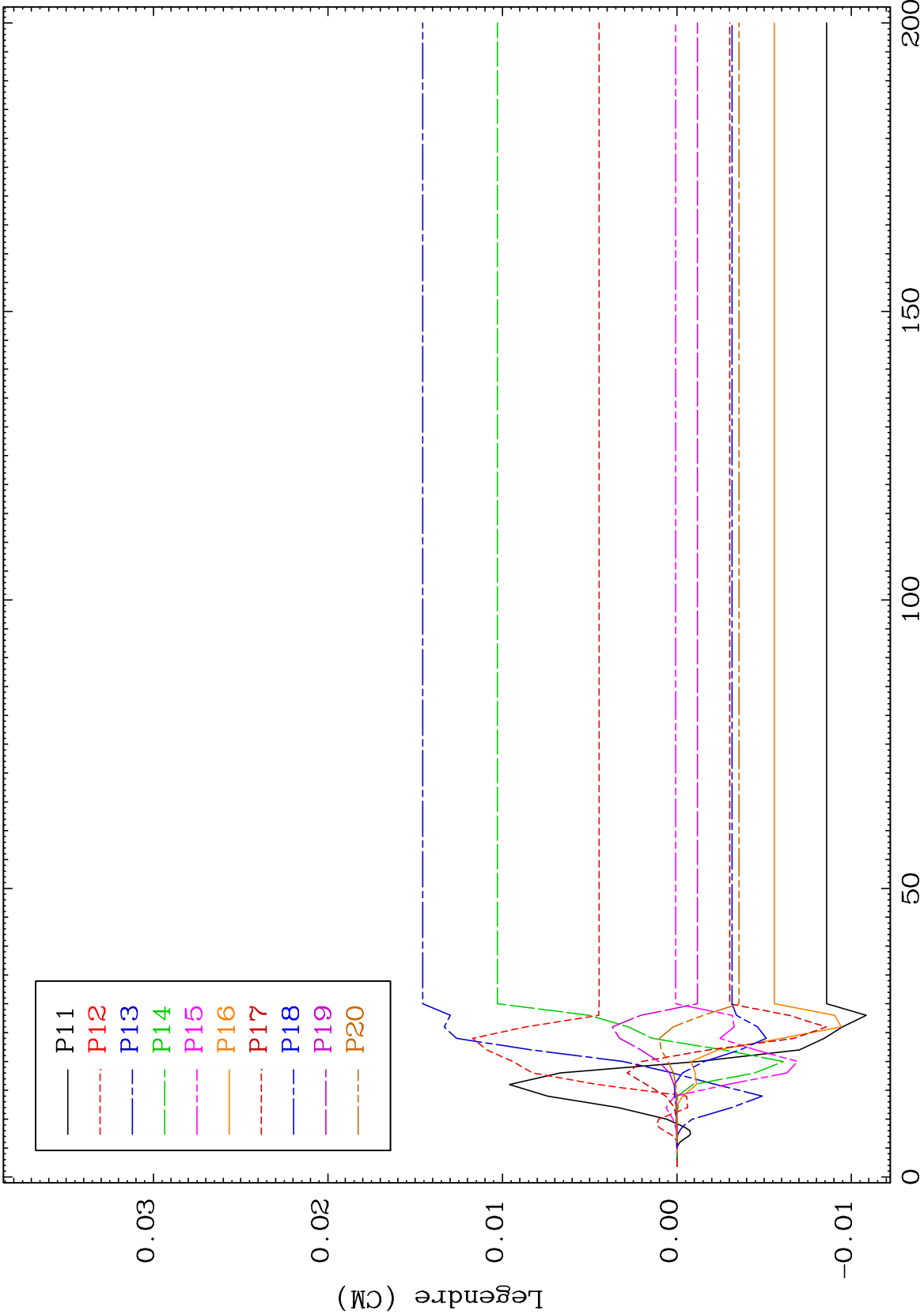
82-Pb-201



MAT 8216

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

82-Pb-201



21

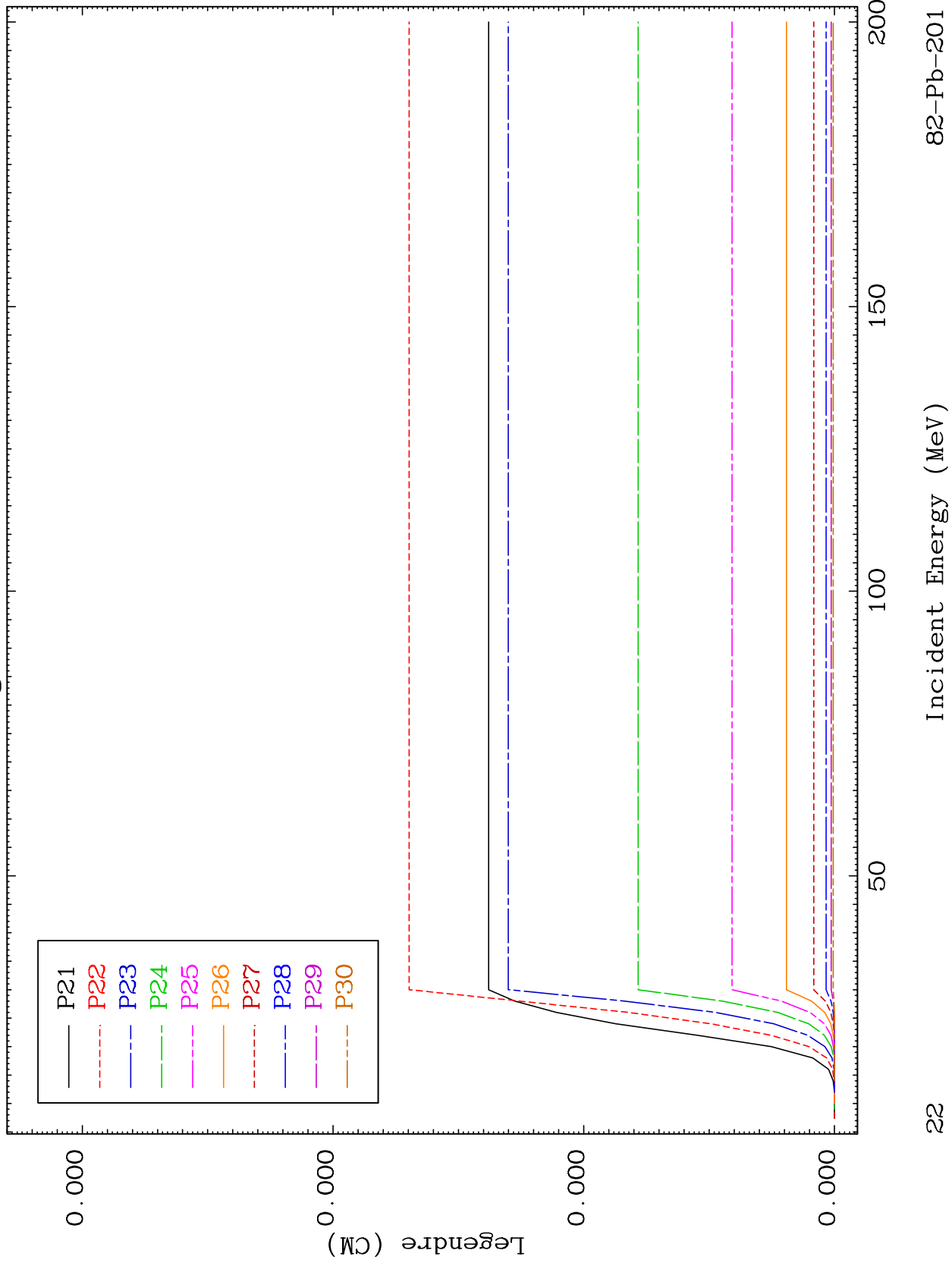
Incident Energy (MeV)

82-Pb-201

MAT 8216

82-Pb-201

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



22

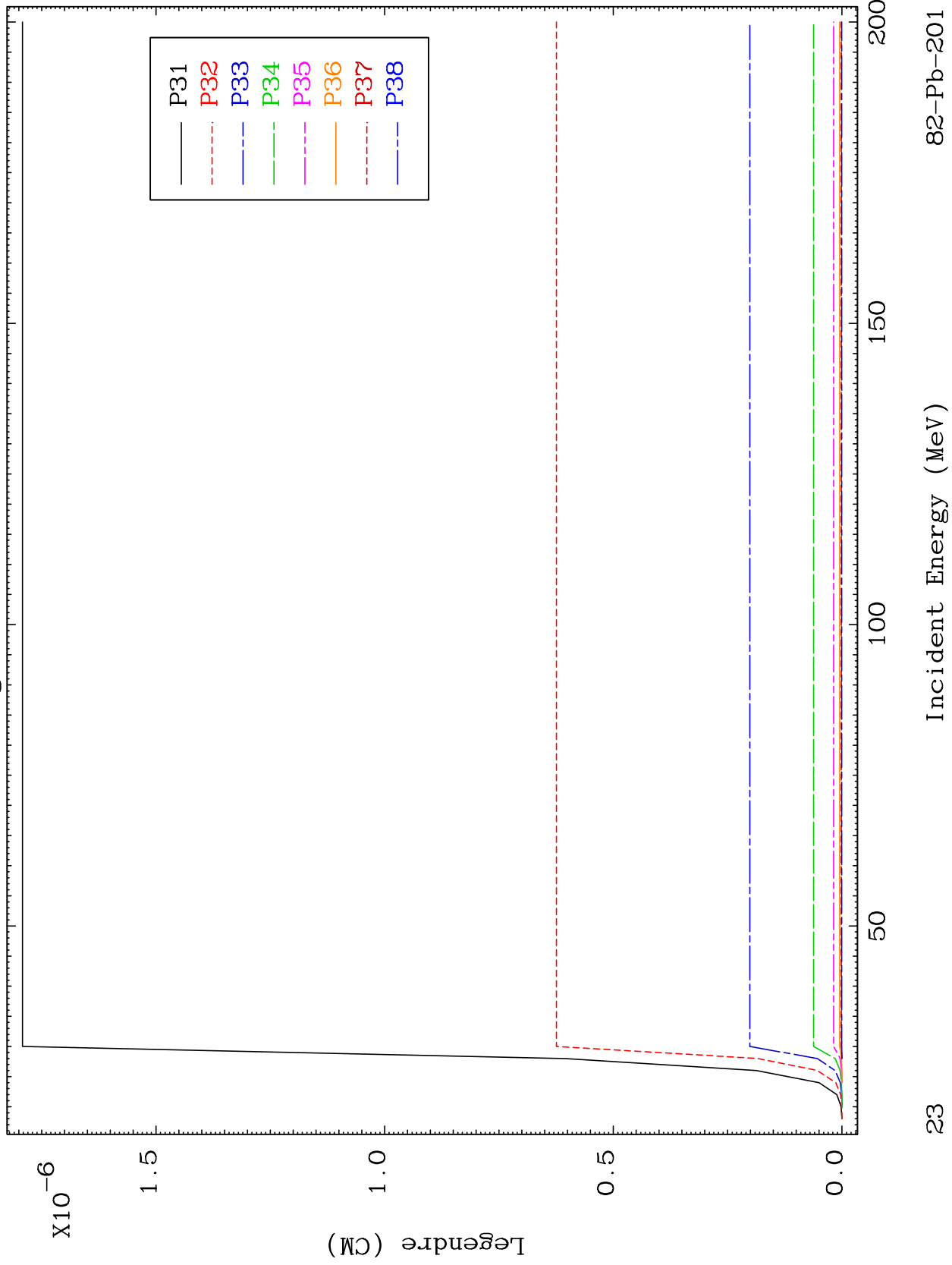
82-Pb-201

Incident Energy (MeV)

MAT 8216

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

82-Pb-201



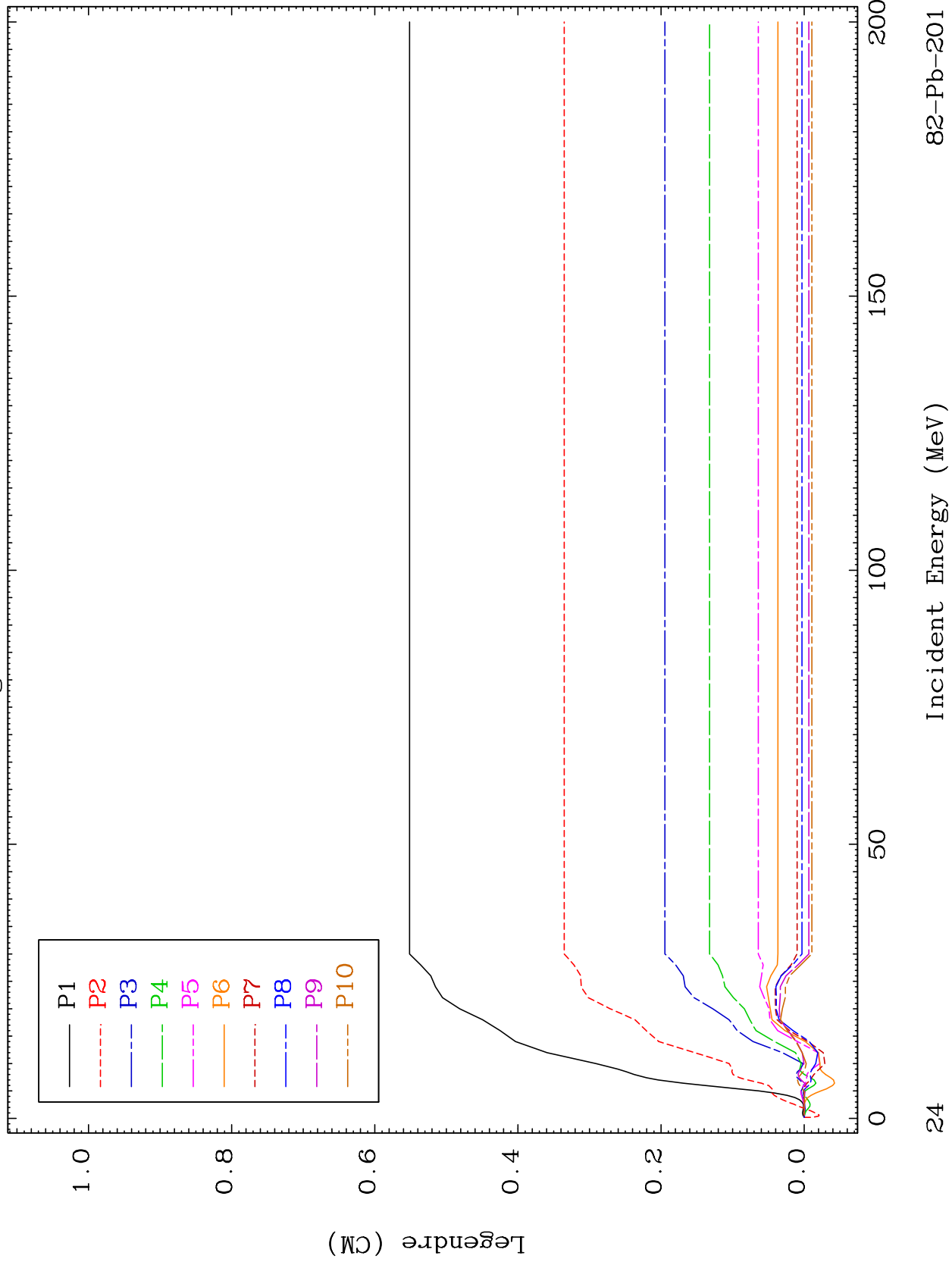
23



MAT 8216

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

82-Pb-201



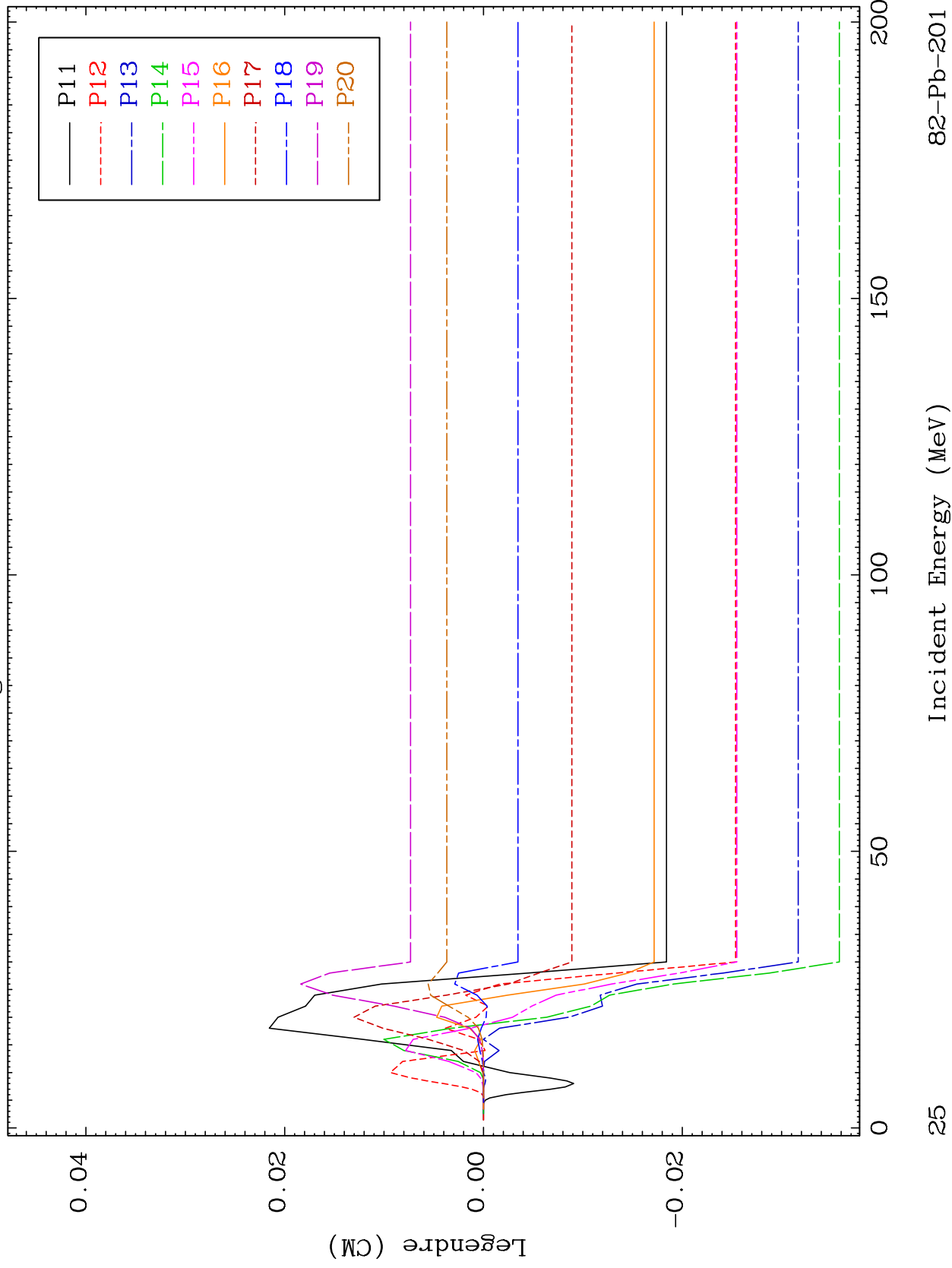
24

82-Pb-201

MAT 8216

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

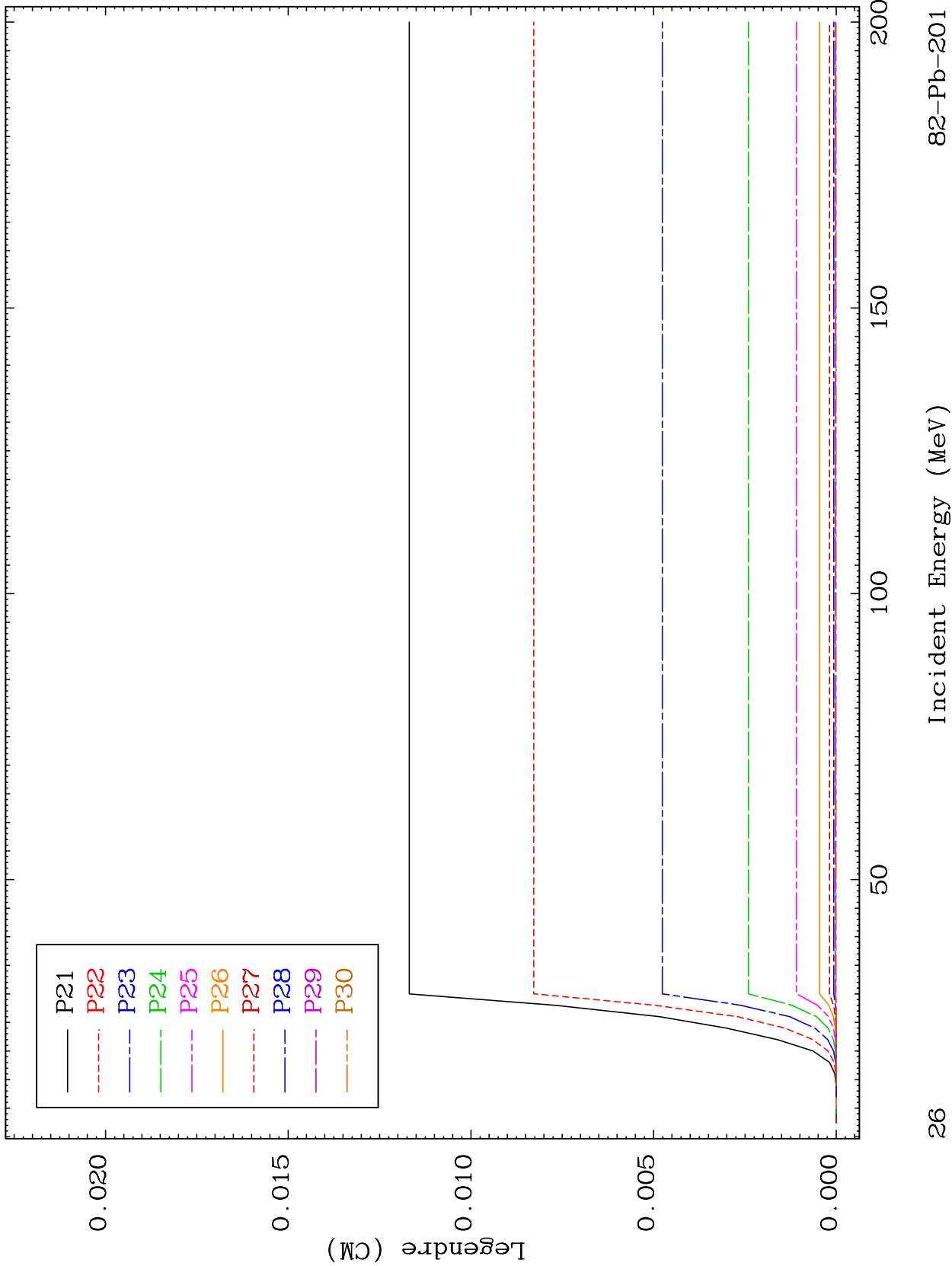
82-Pb-201



82-Pb-201

Incident Energy (MeV)

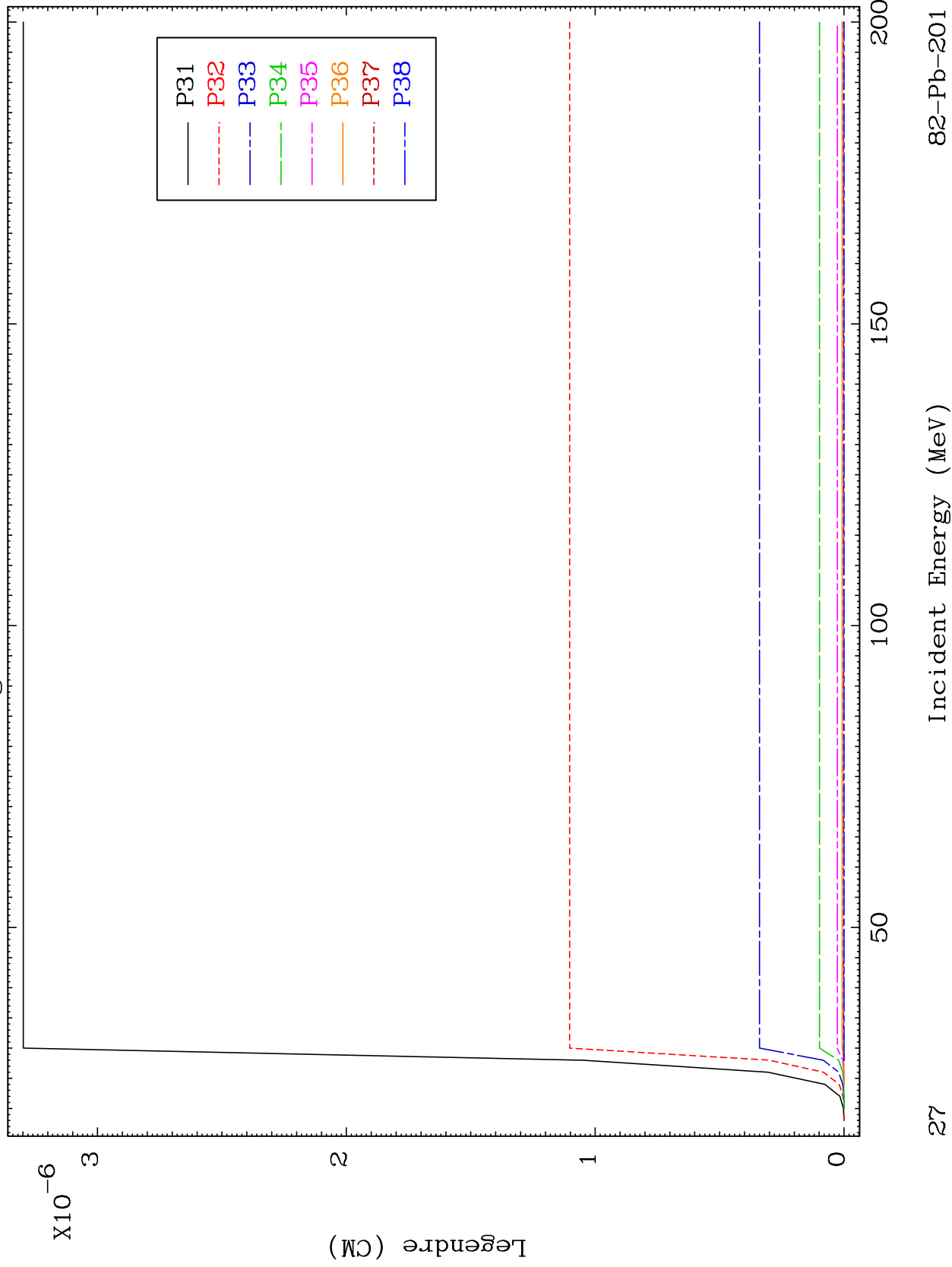
25



MAT 8216

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

82-Pb-201



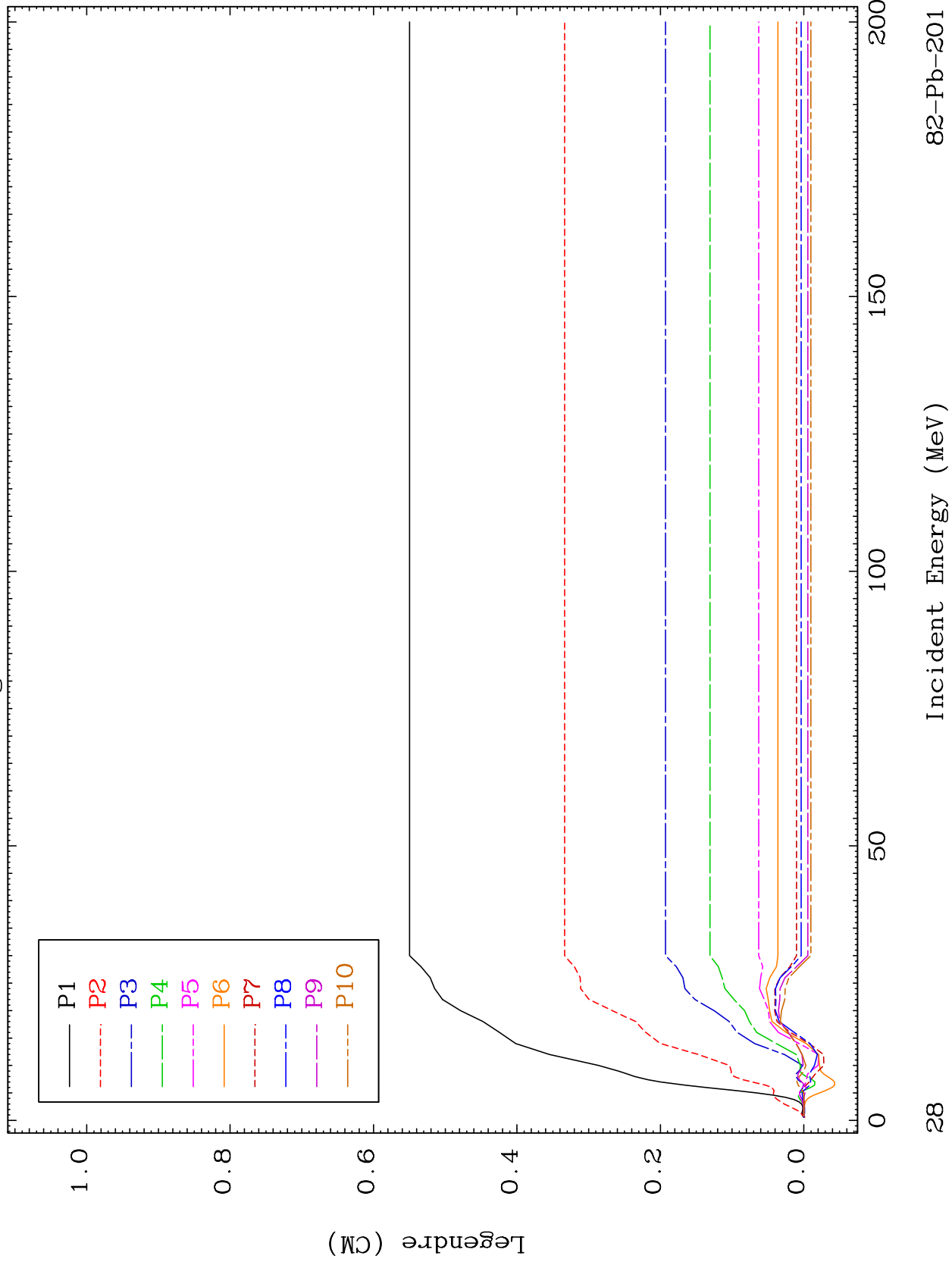
27

82-Pb-201

MAT 8216

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

82-Pb-201



82-Pb-201

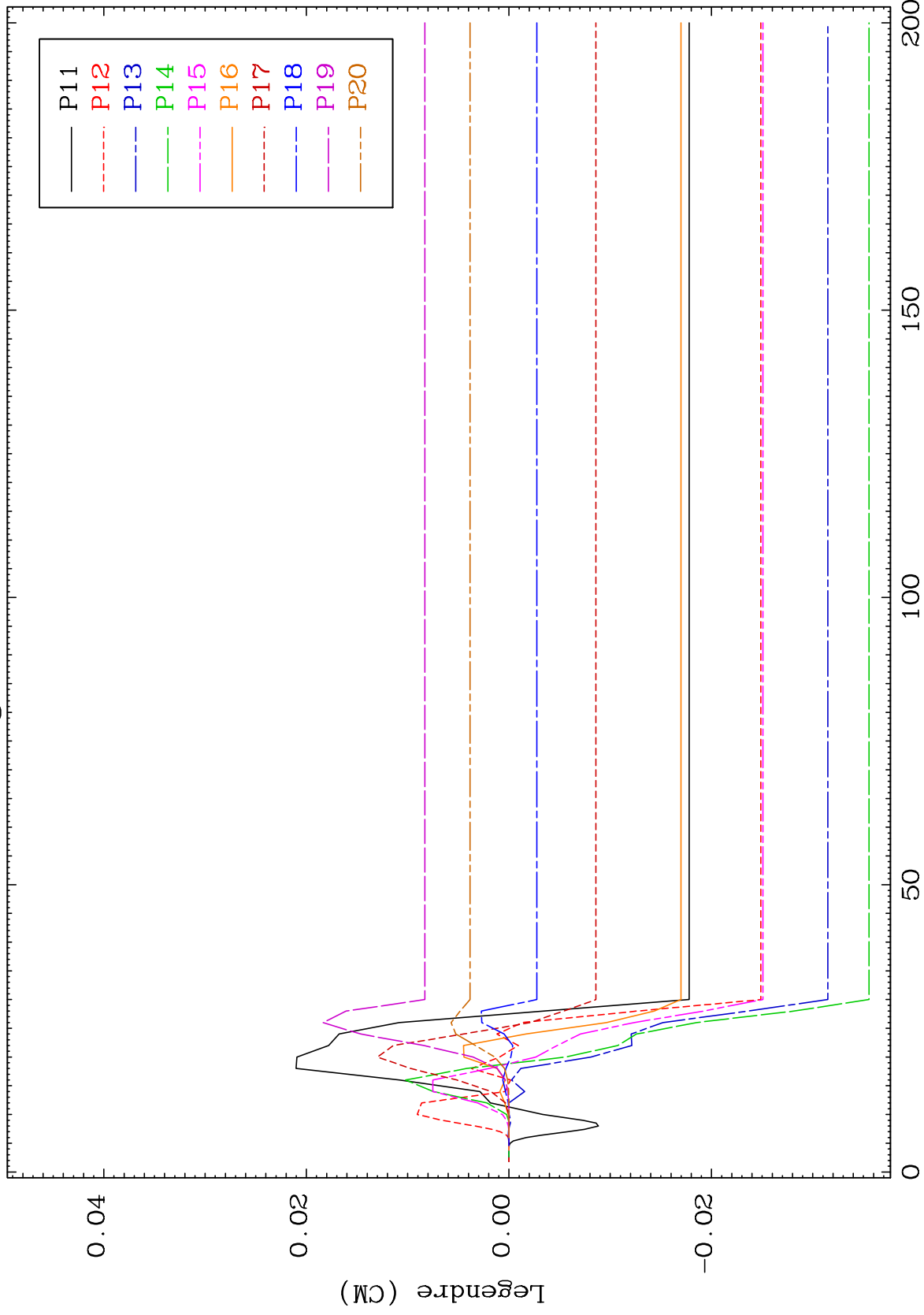
Incident Energy (MeV)

28

MAT 8216

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

82-Pb-201



29

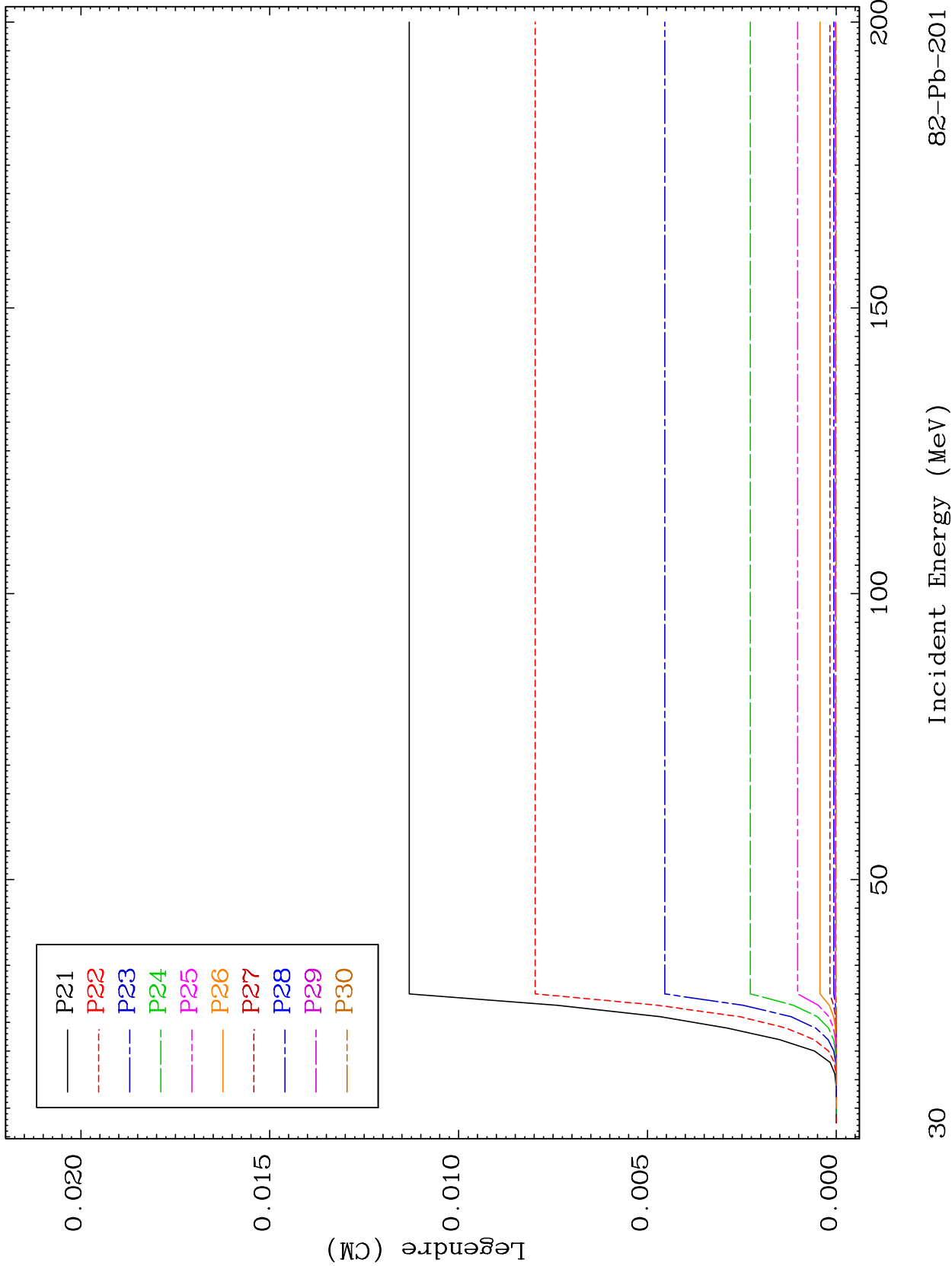
Incident Energy (MeV)

82-Pb-201

MAT 8216

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

82-Pb-201



30

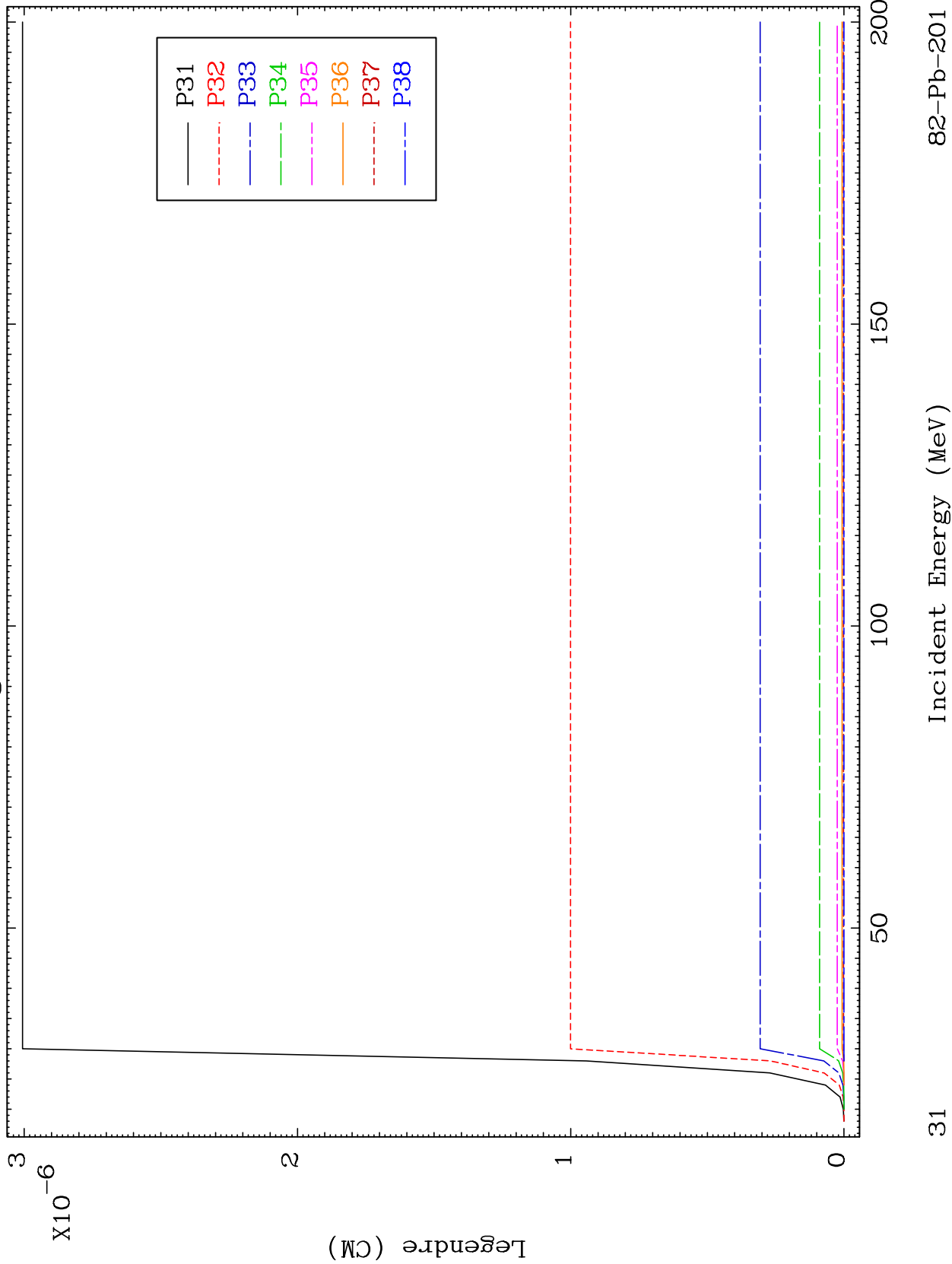
Incident Energy (MeV)

82-Pb-201

MAT 8216

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

82-Pb-201



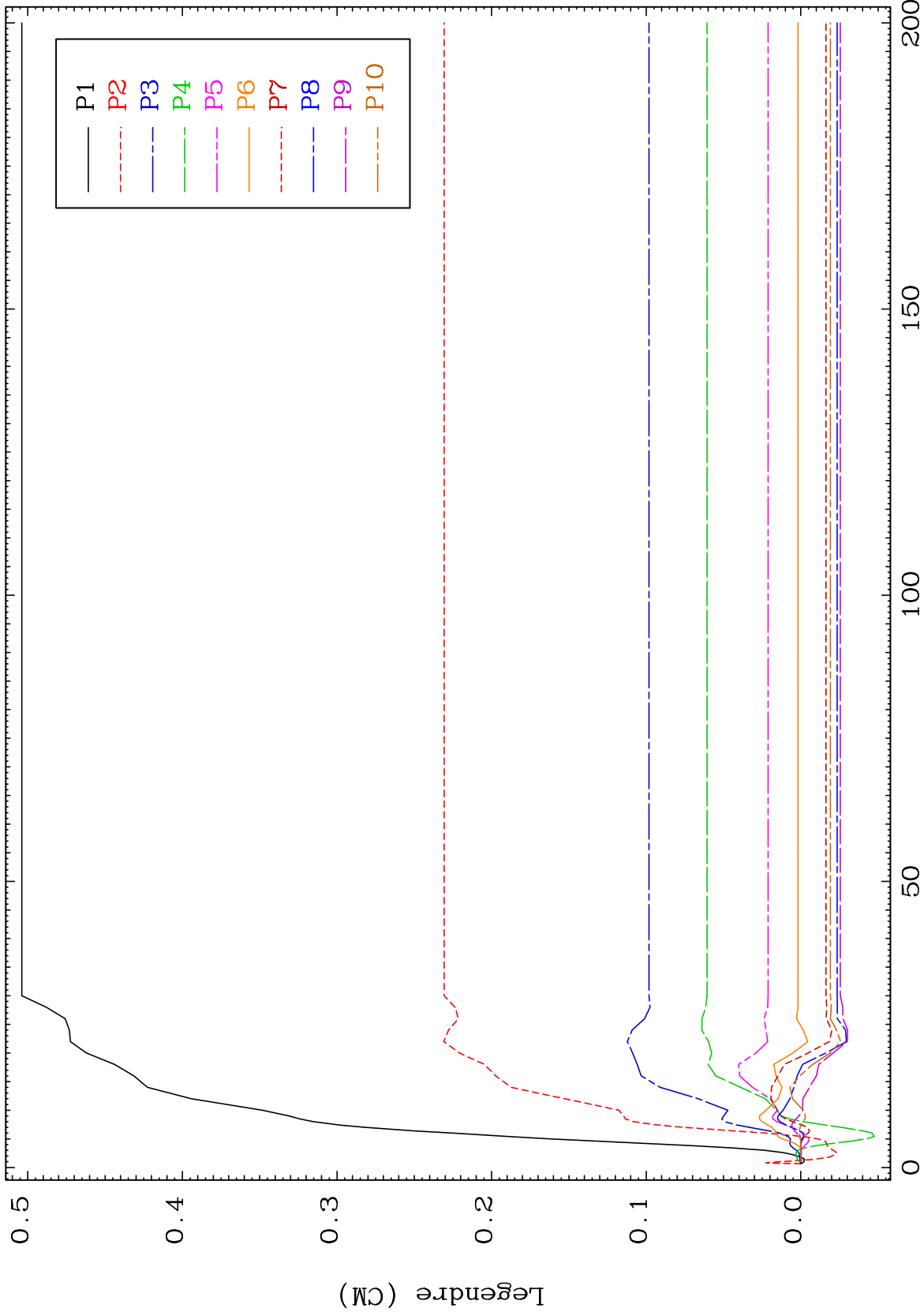


MAT 8216

MT= 54 (n,n') Level

82-Pb-201

Legendre Coefficients



32

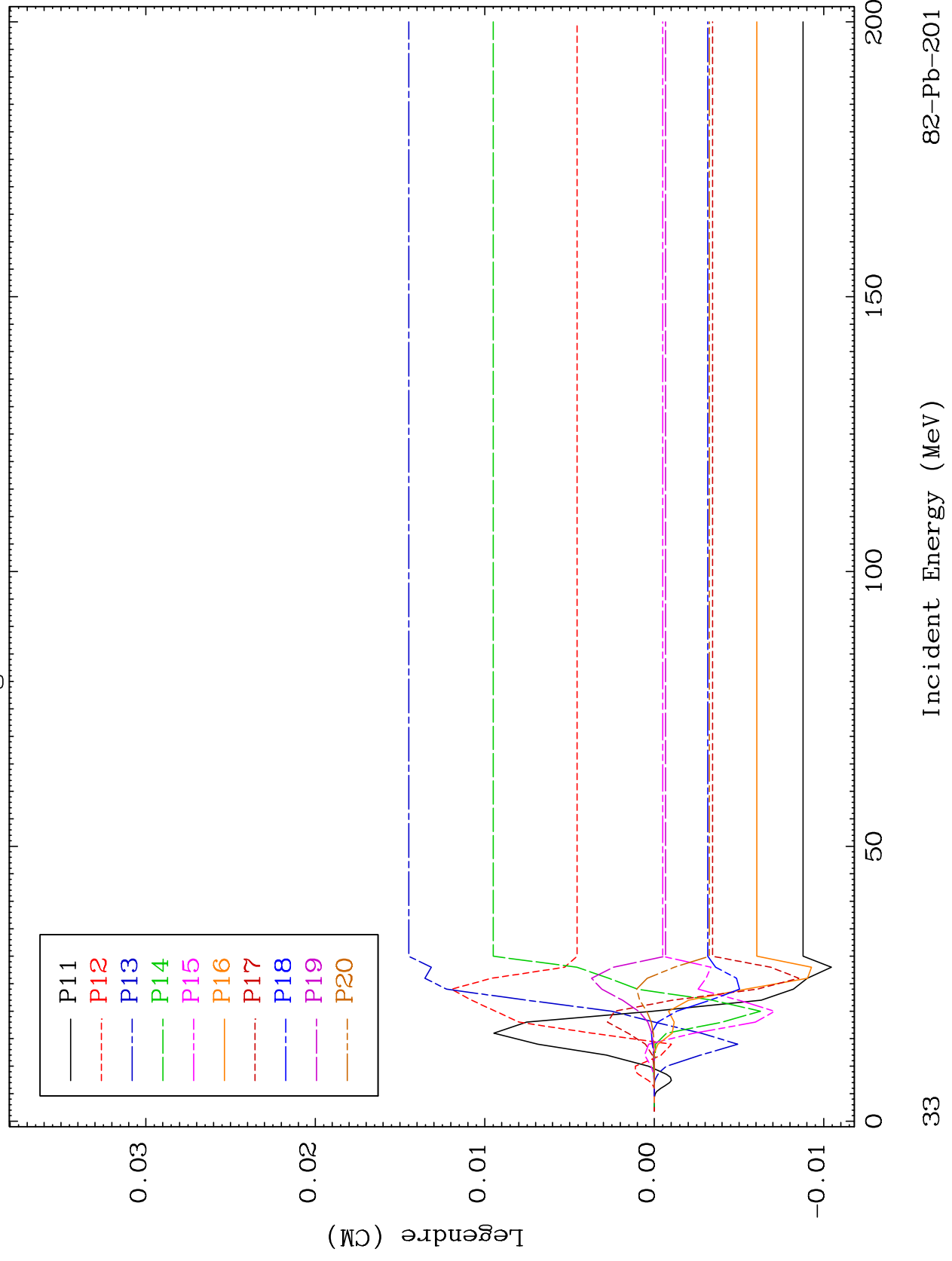
Incident Energy (MeV)

82-Pb-201

MAT 8216

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

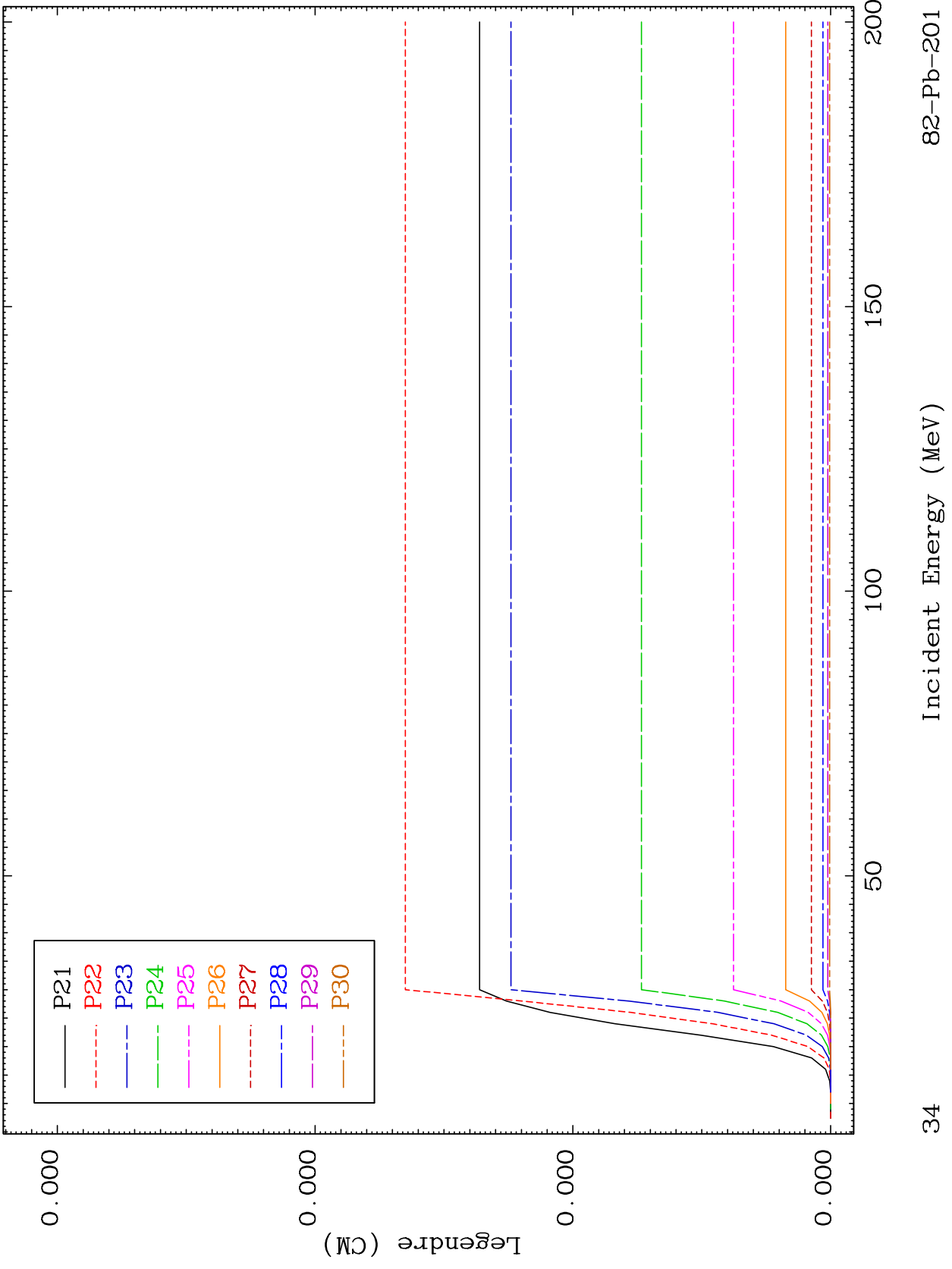
82-Pb-201



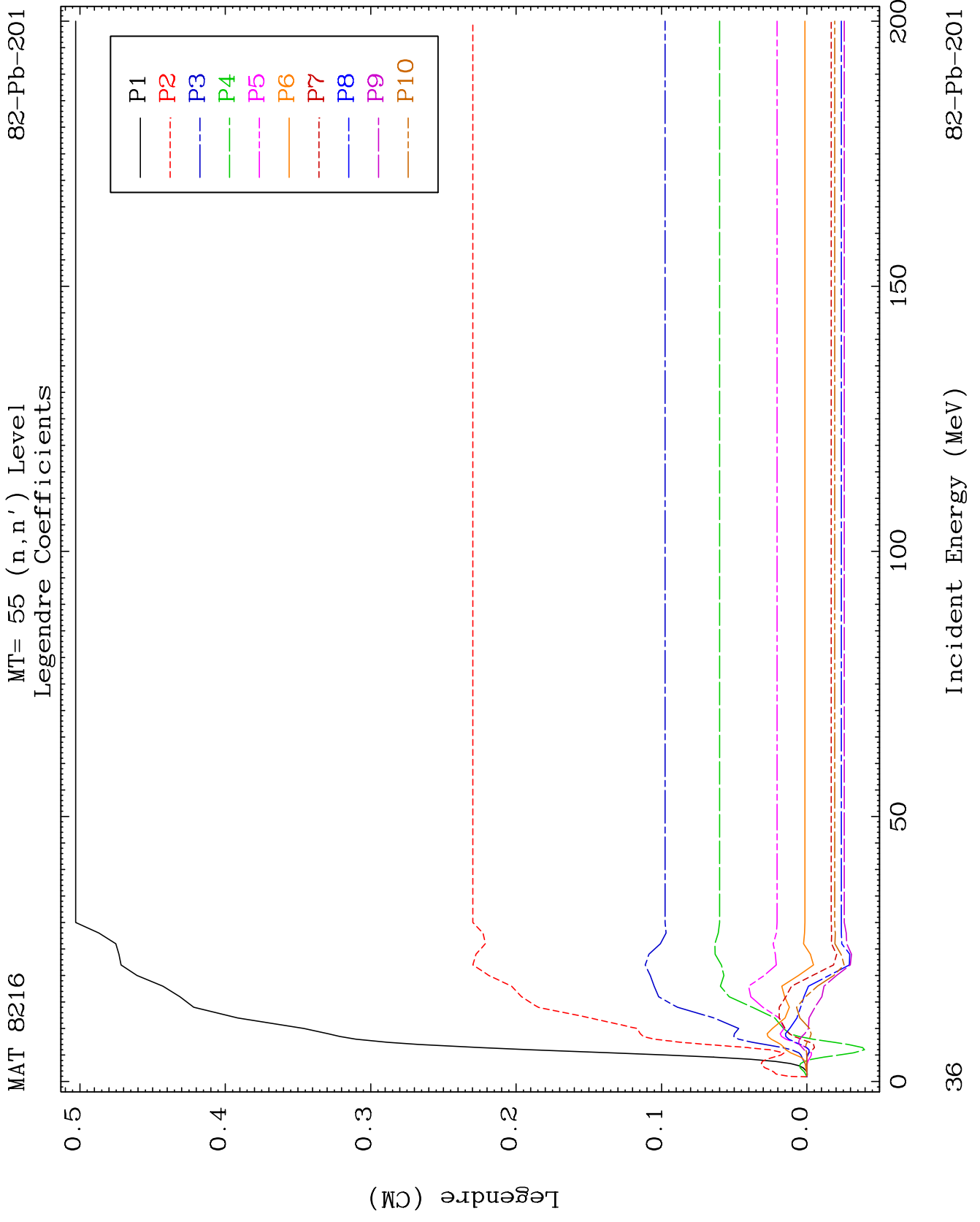
MAT 8216

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

82-Pb-201





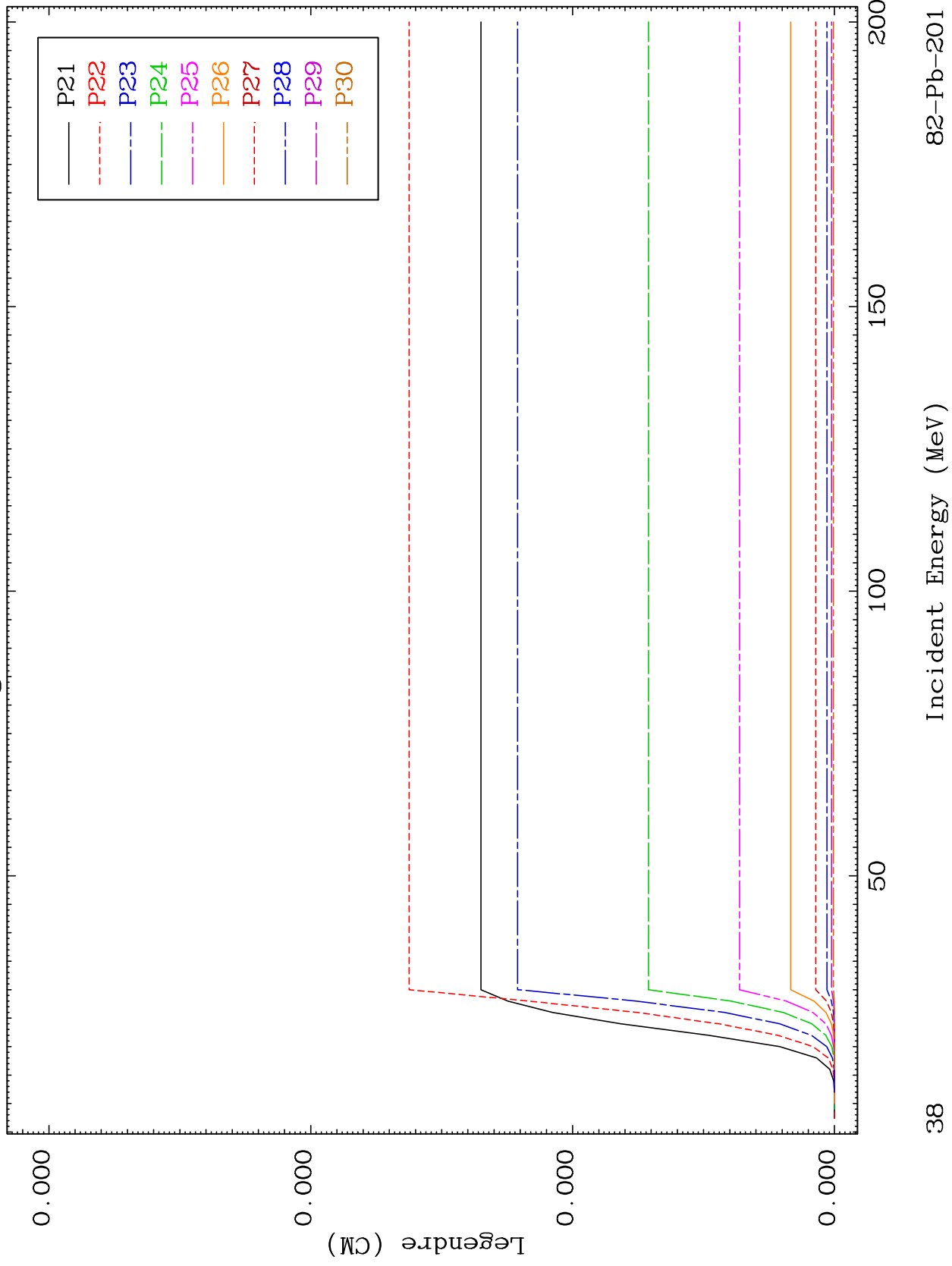




MAT 8216

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

82-Pb-201



38

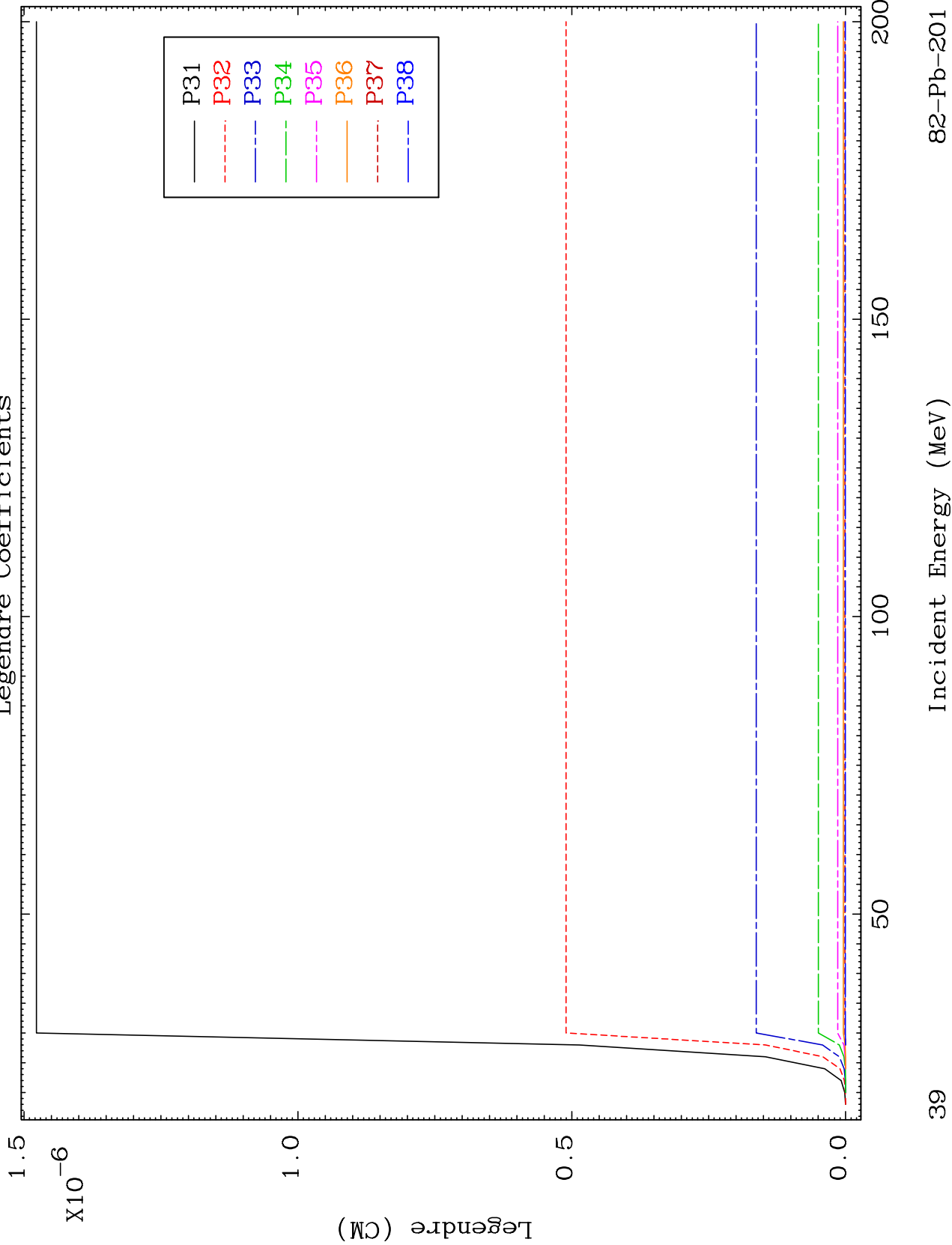
Incident Energy (MeV)

82-Pb-201

MAT 8216

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

82-Pb-201



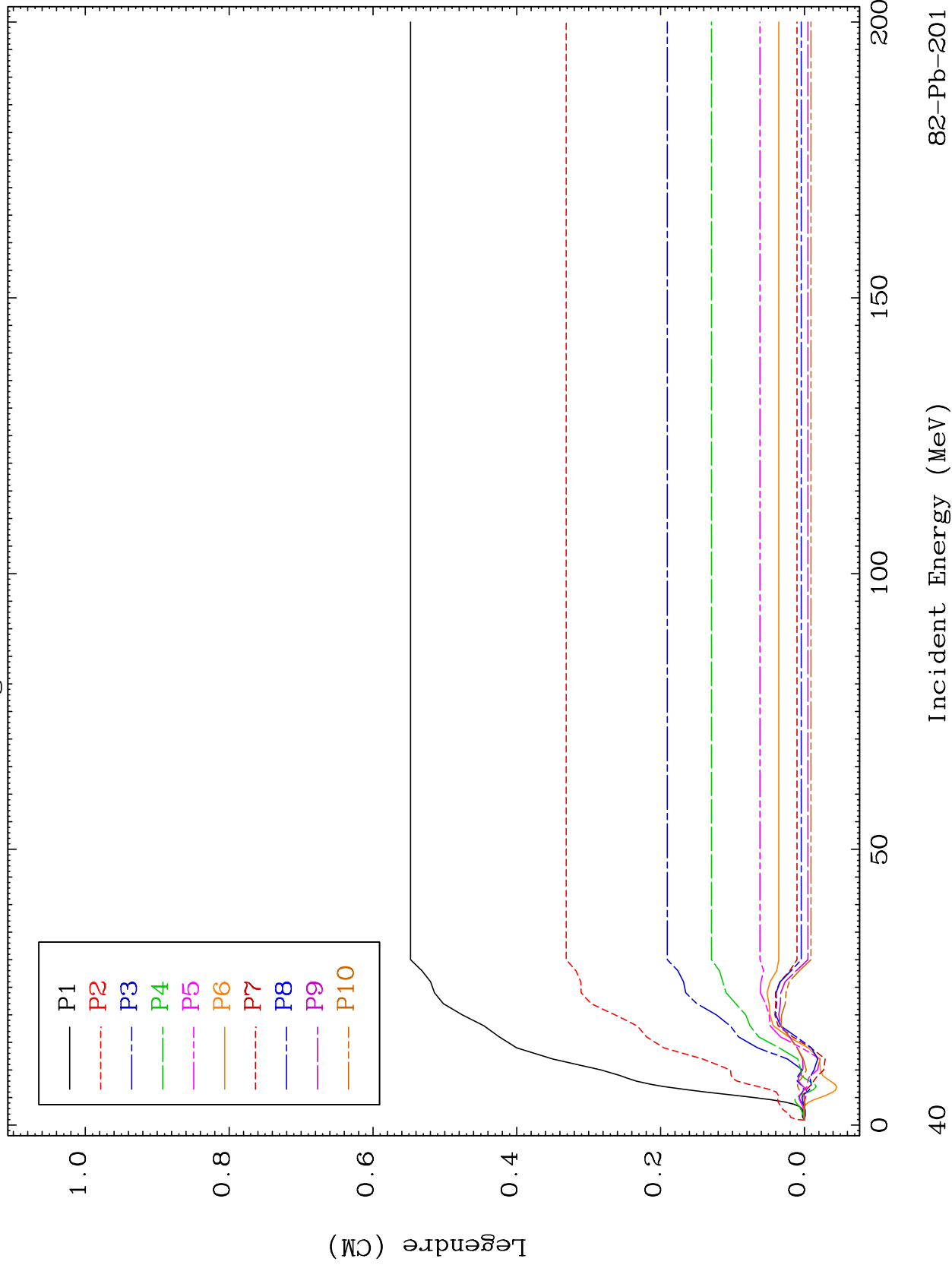
39



MAT 8216

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

82-Pb-201



82-Pb-201

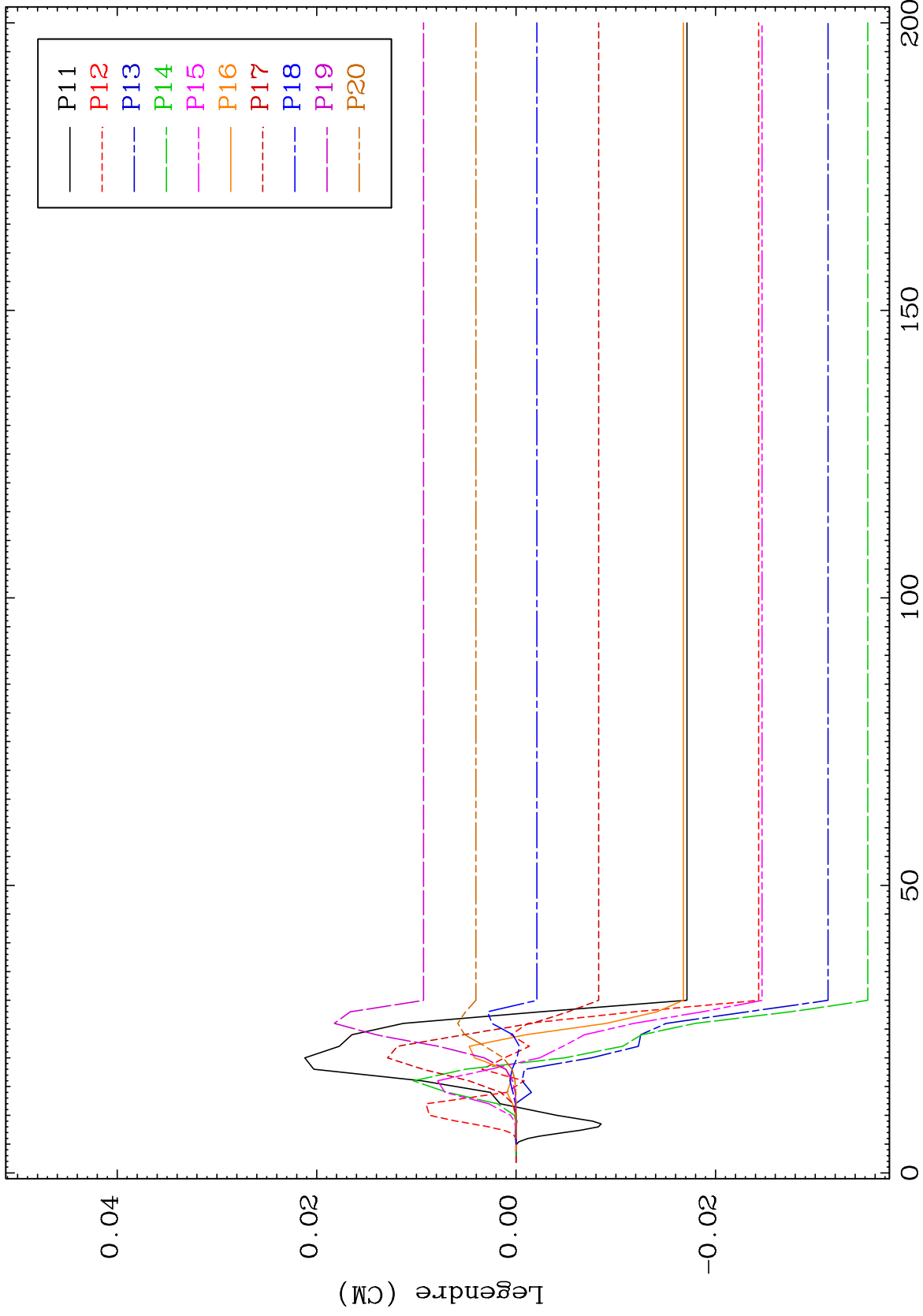
Incident Energy (MeV)

40

MAT 8216

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

82-Pb-201



41

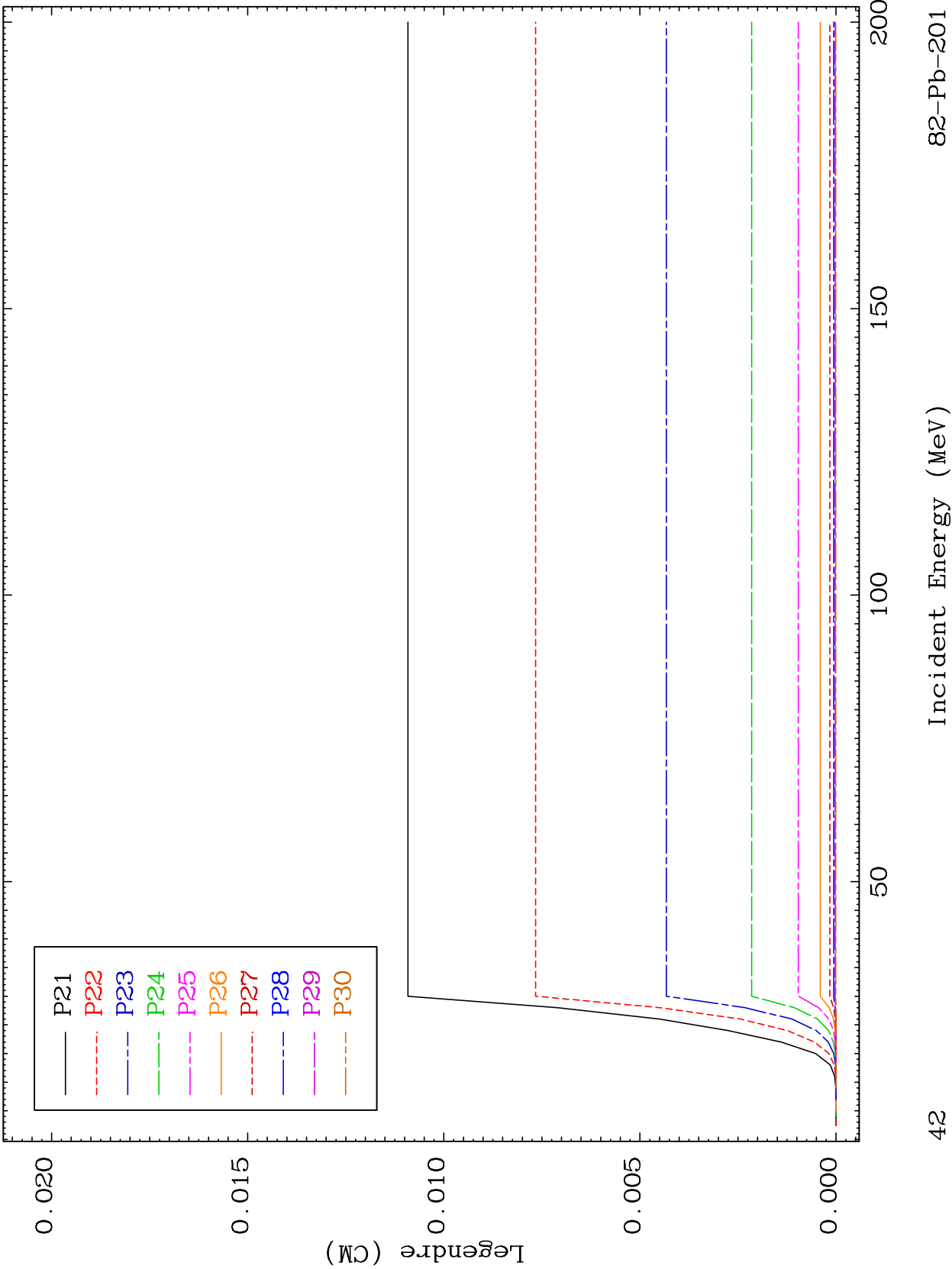
Incident Energy (MeV)

82-Pb-201

MAT 8216

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

82-Pb-201



42

Incident Energy (MeV)

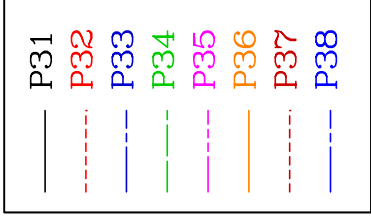
82-Pb-201

MAT 8216

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

82-Pb-201

$\times 10^{-6}$   
2.5  
2.0  
1.5  
1.0  
0.5  
0.0



Legendre (CM)

200

150

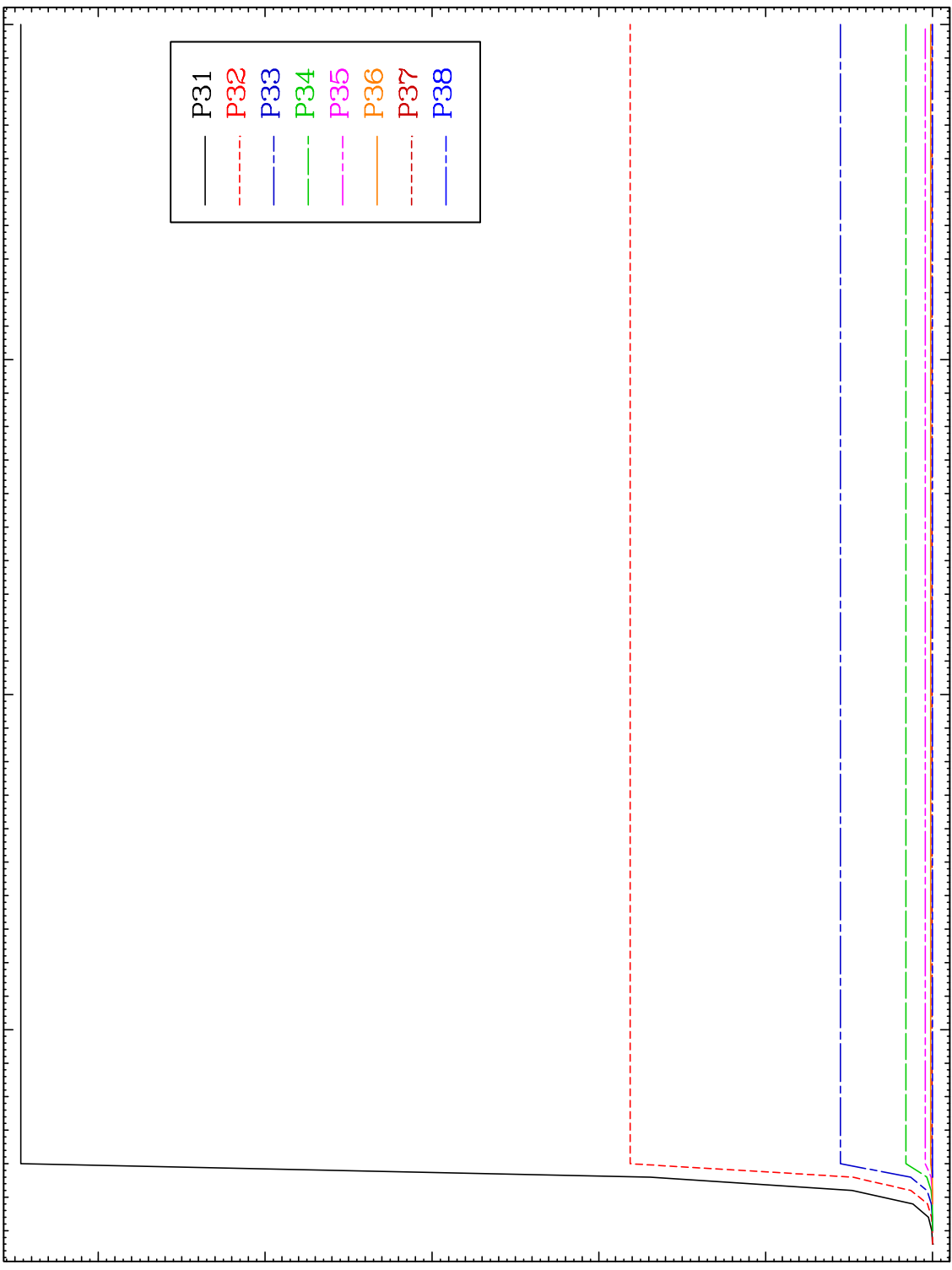
100

50

43

Incident Energy (MeV)

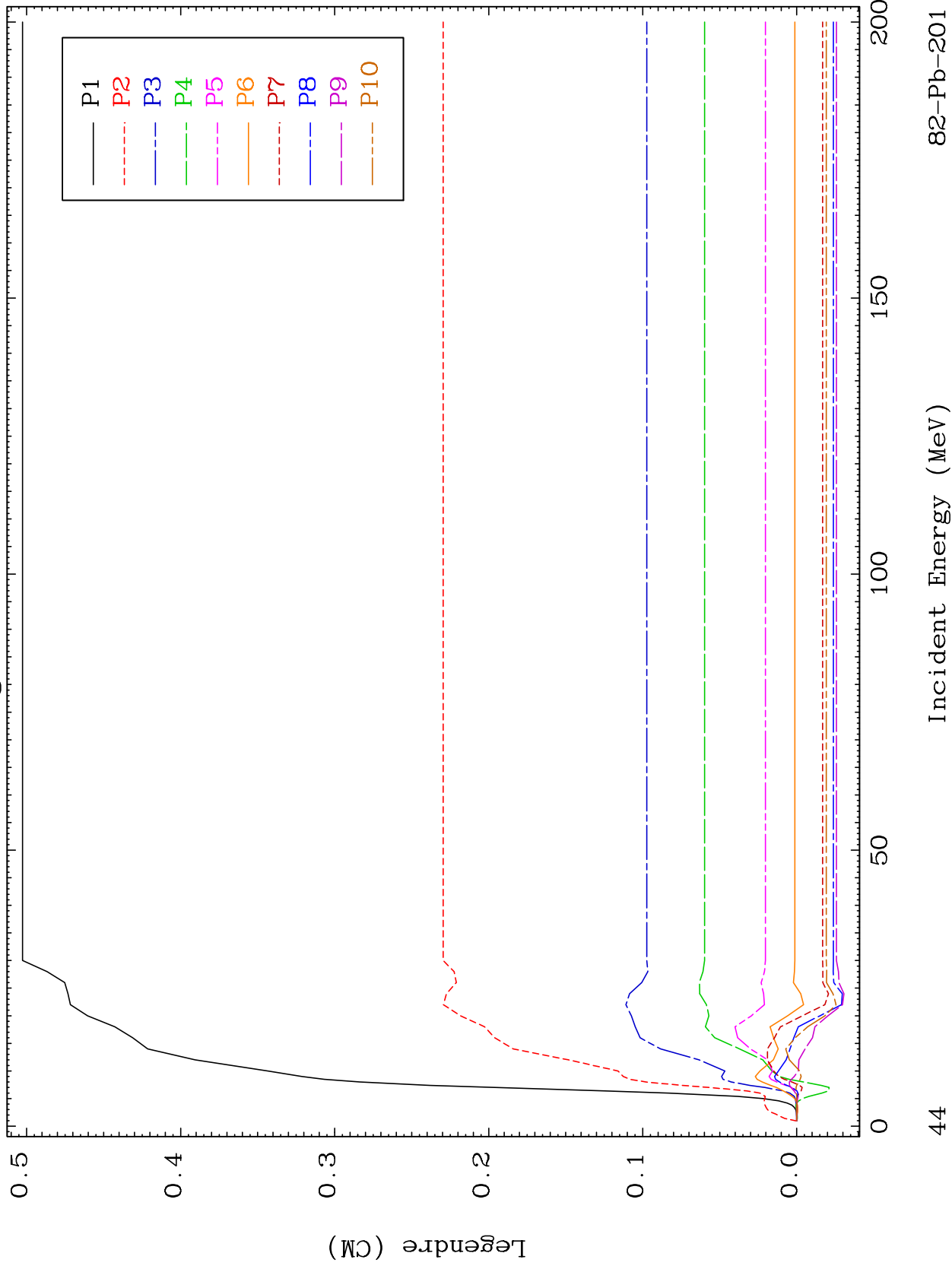
82-Pb-201



MAT 8216

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

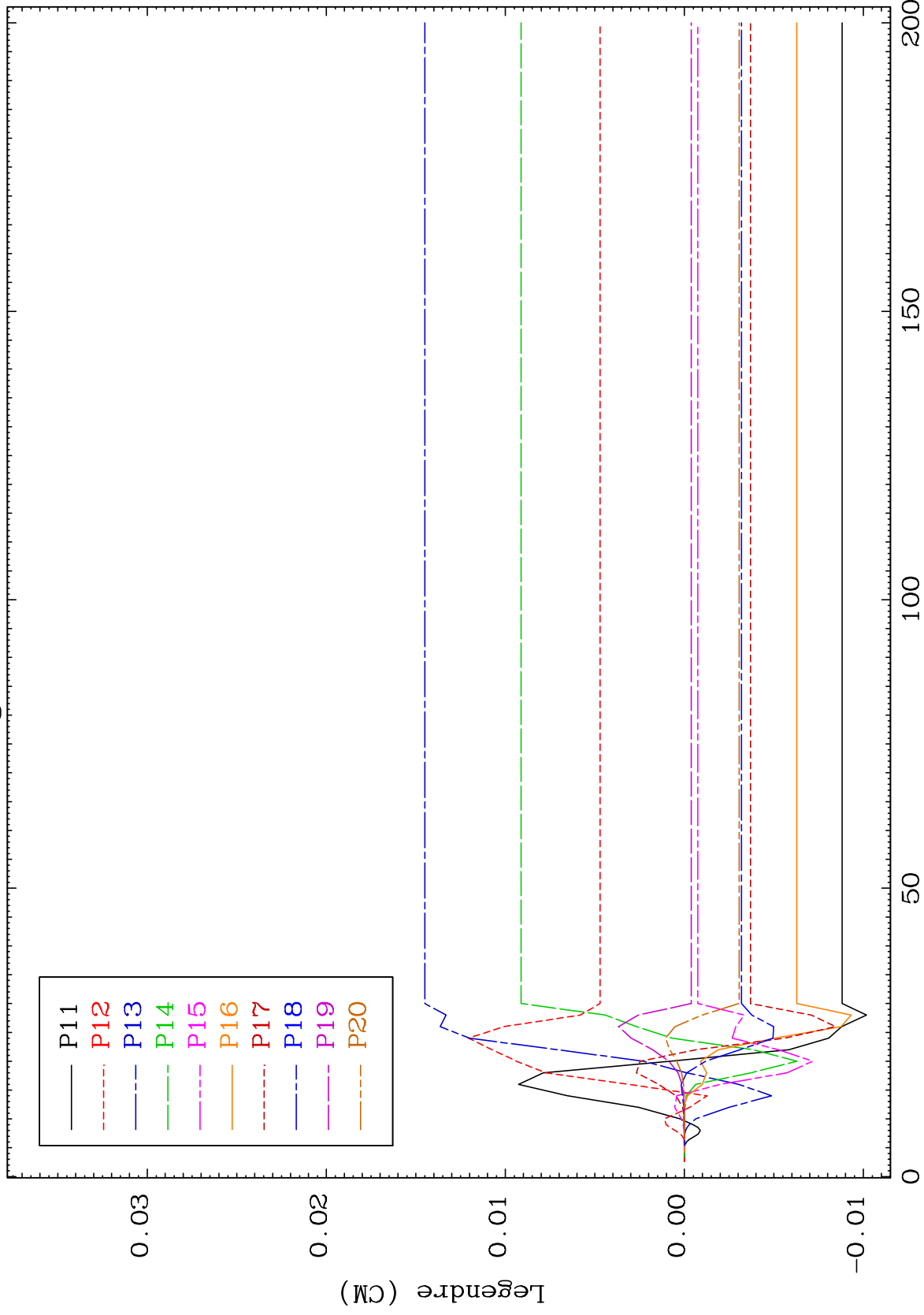
82-Pb-201



MAT 8216

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

82-Pb-201



45

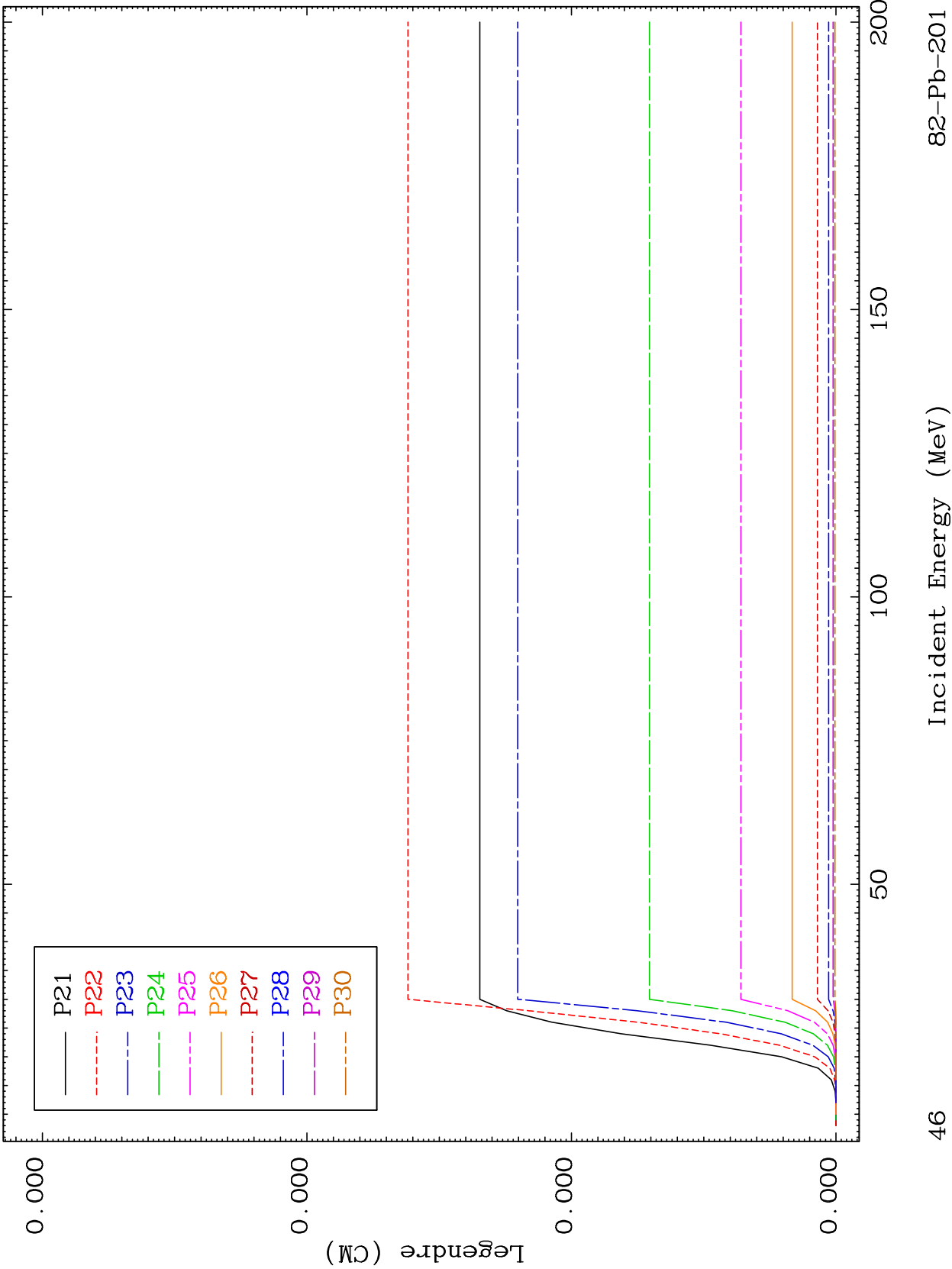
Incident Energy (MeV)

82-Pb-201

MAT 8216

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

82-Pb-201



46

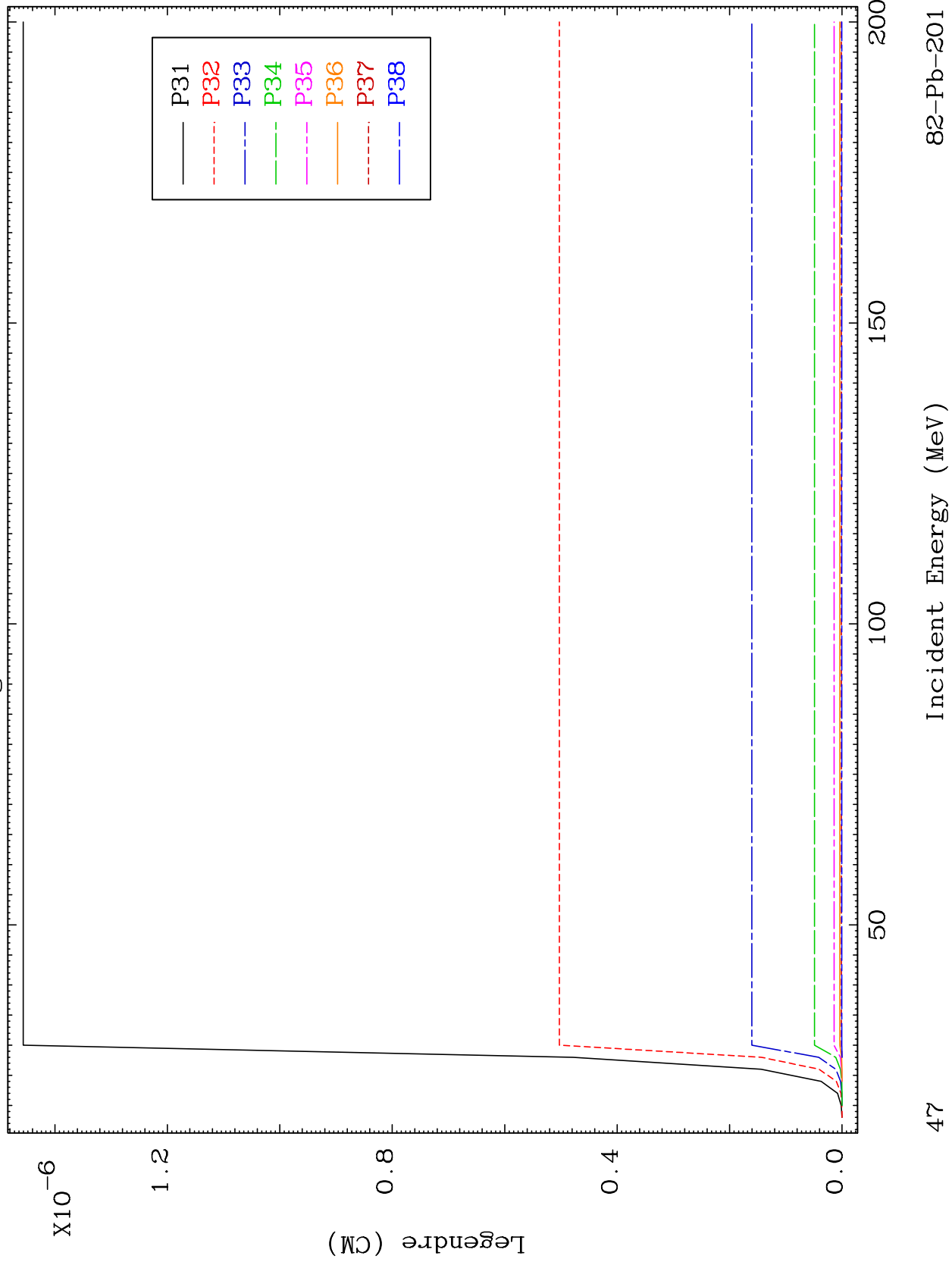
Incident Energy (MeV)

82-Pb-201

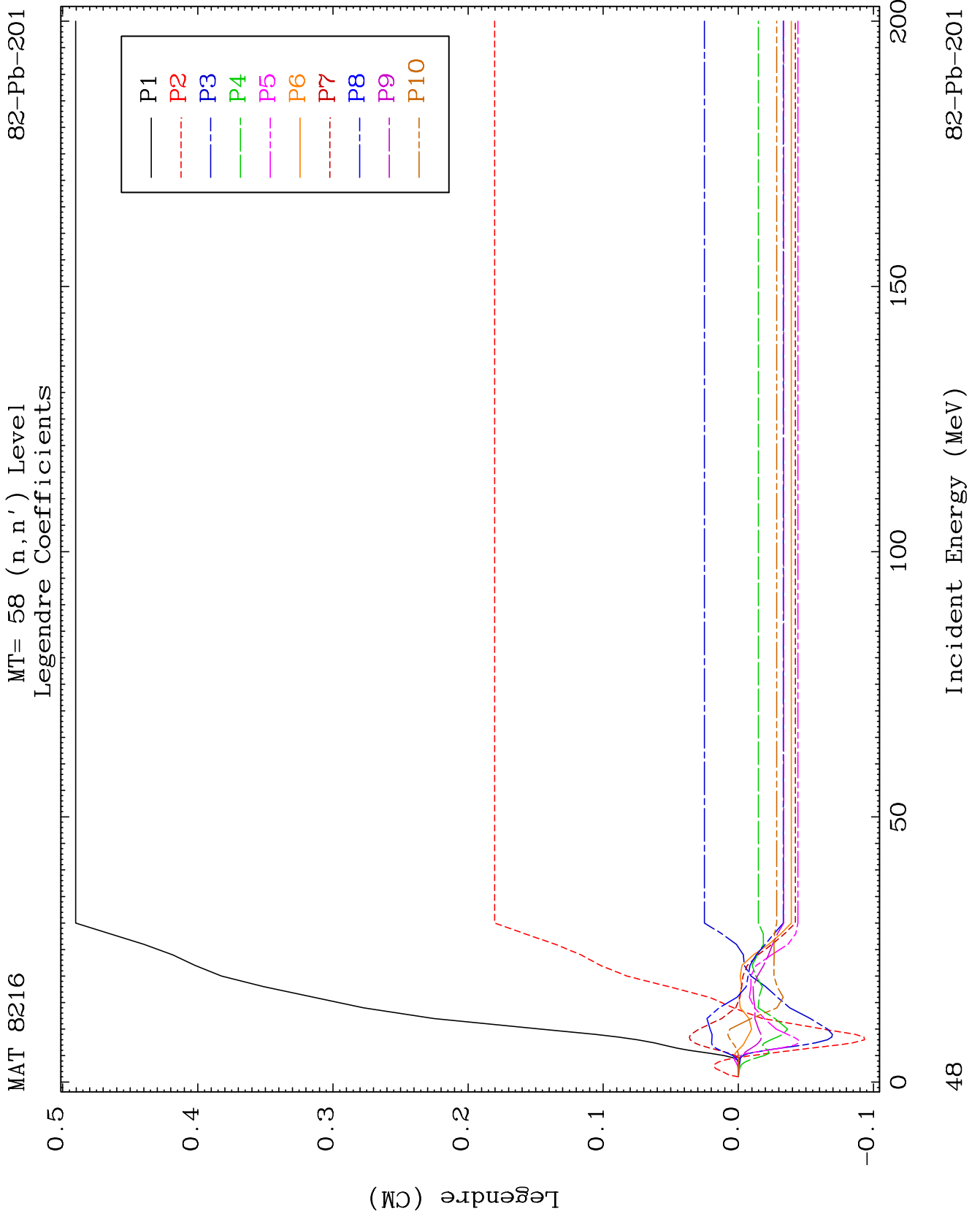
MAT 8216

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

82-Pb-201



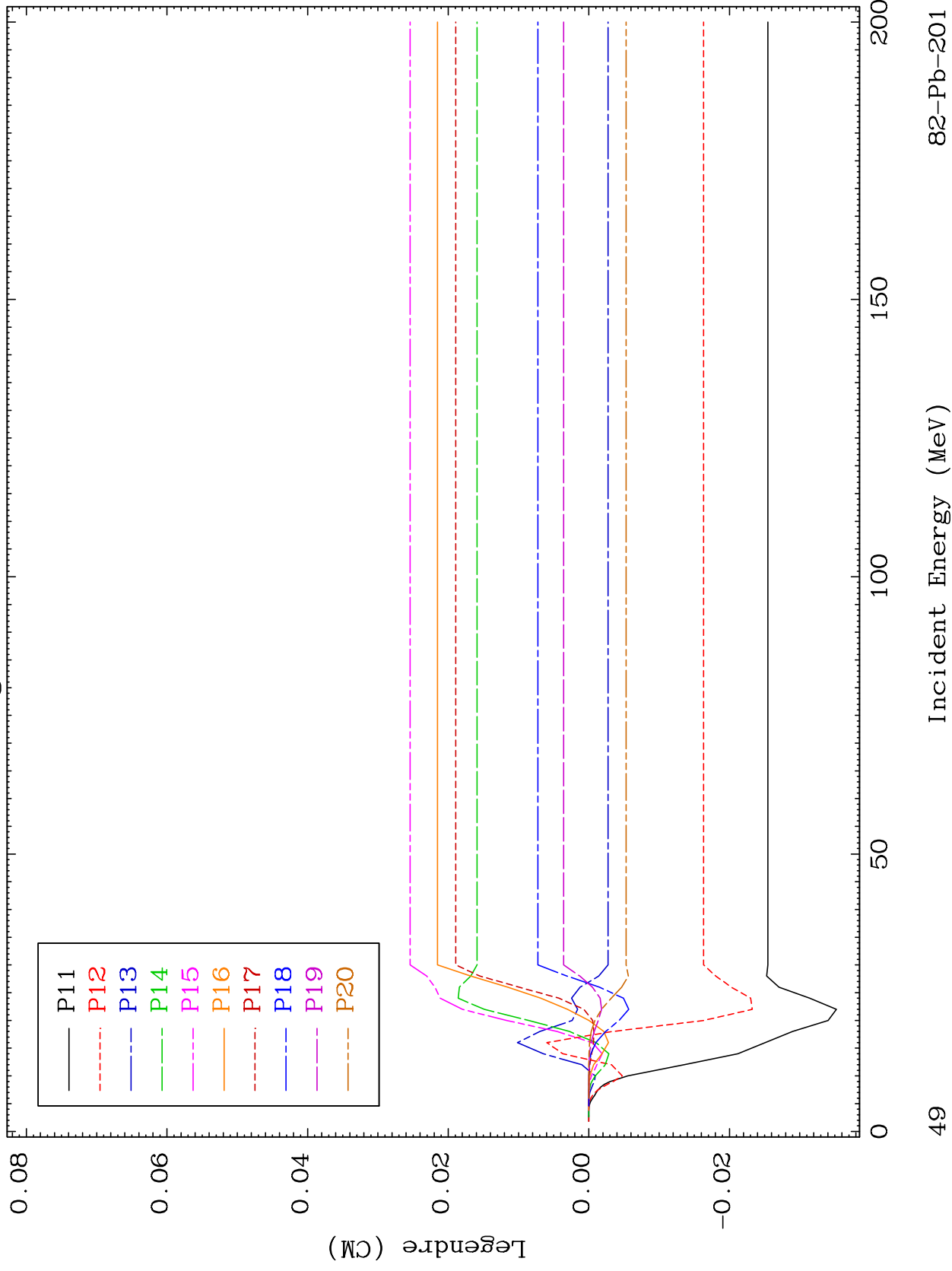




MAT 8216

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

82-Pb-201



49

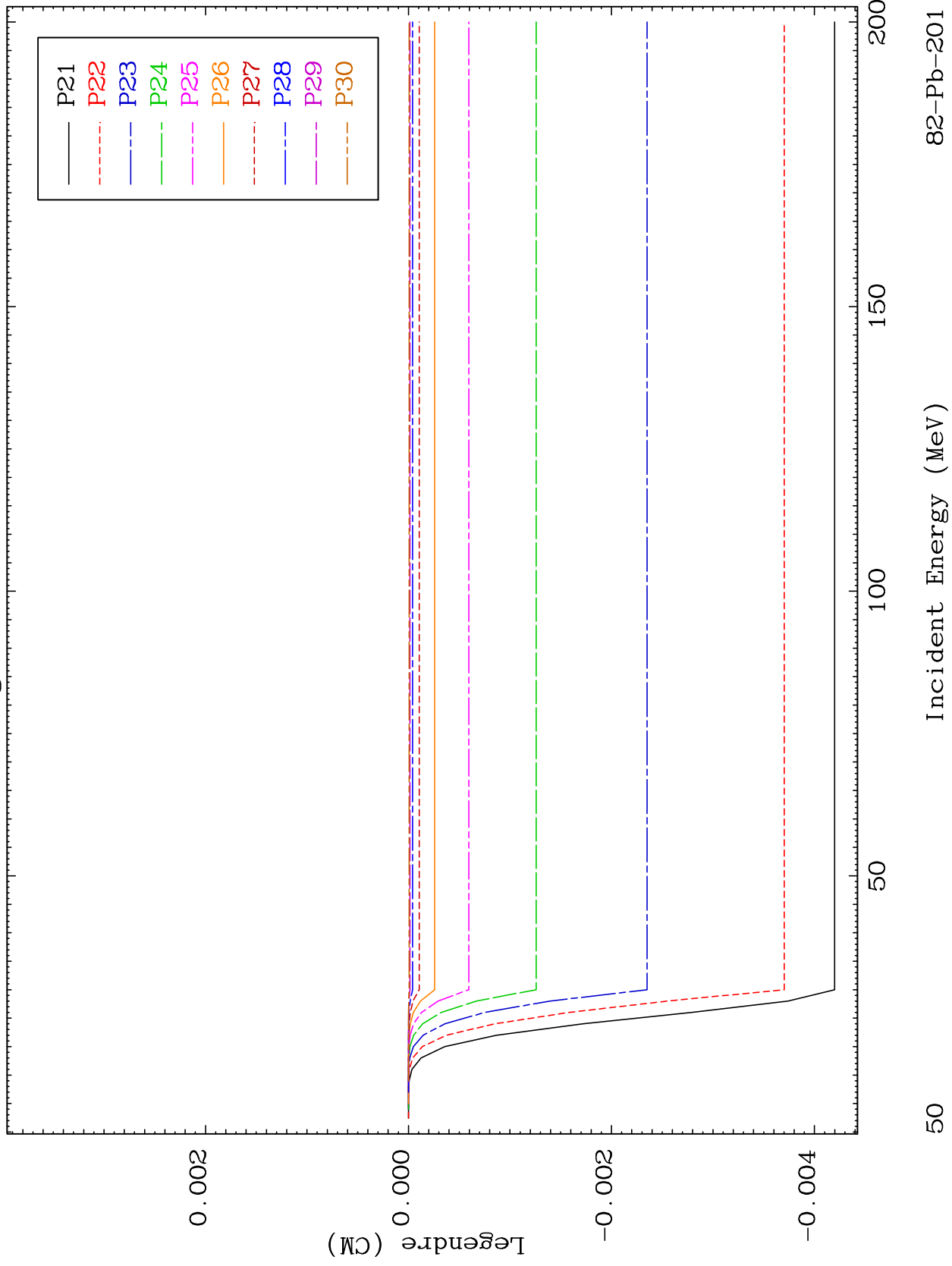
Incident Energy (MeV)

82-Pb-201

MAT 8216

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

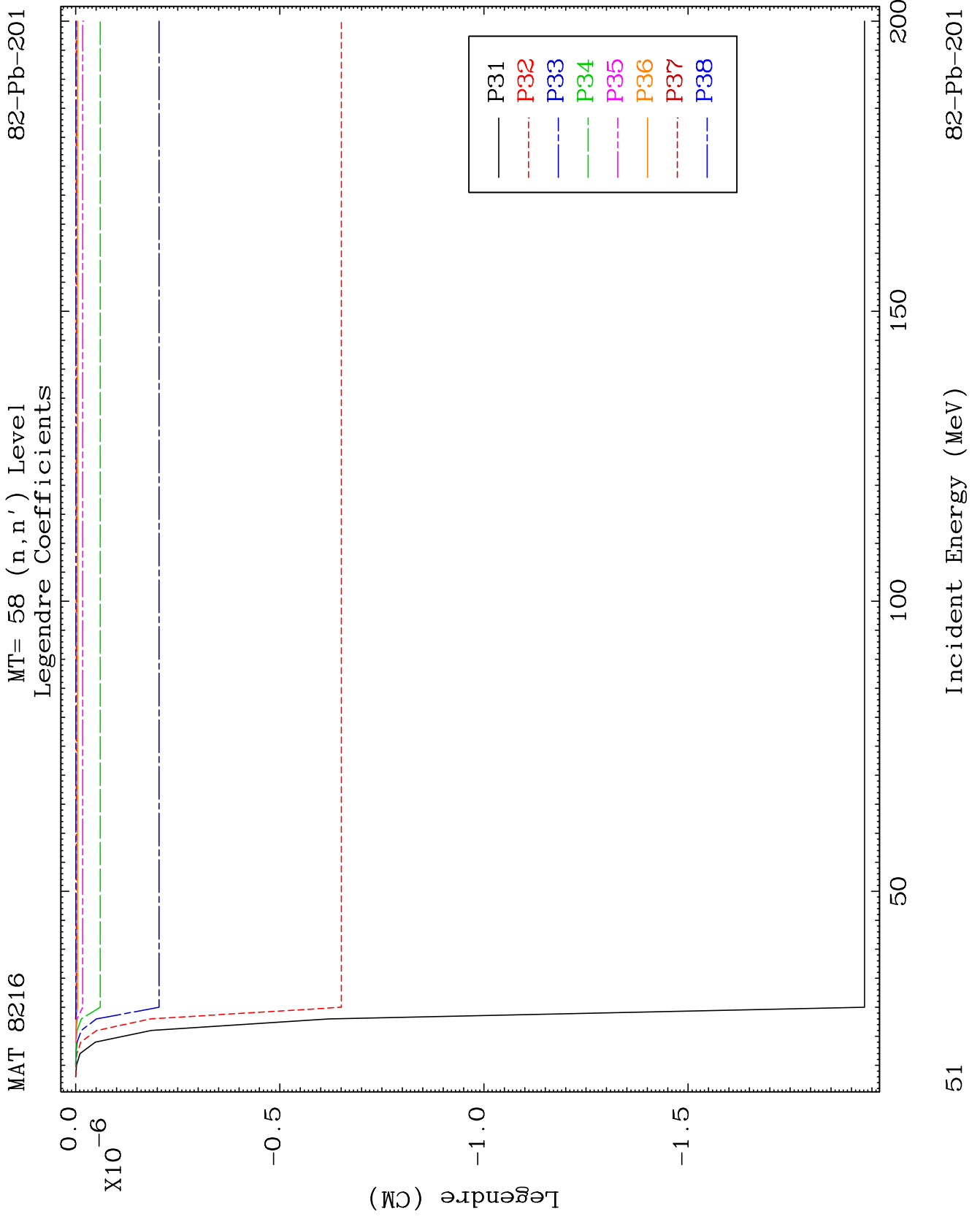
82-Pb-201



82-Pb-201

Incident Energy (MeV)

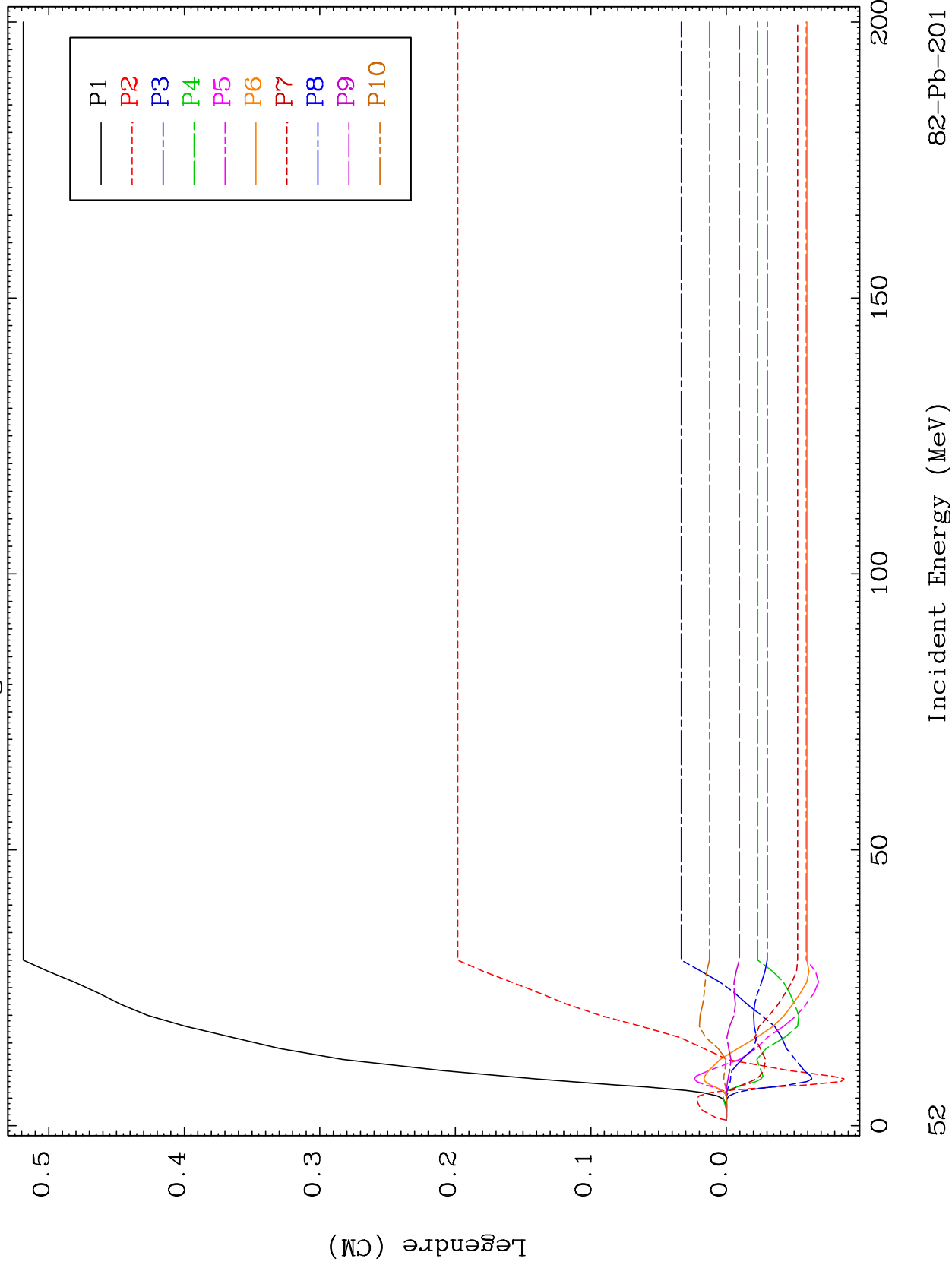
50



MAT 8216

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

82-Pb-201

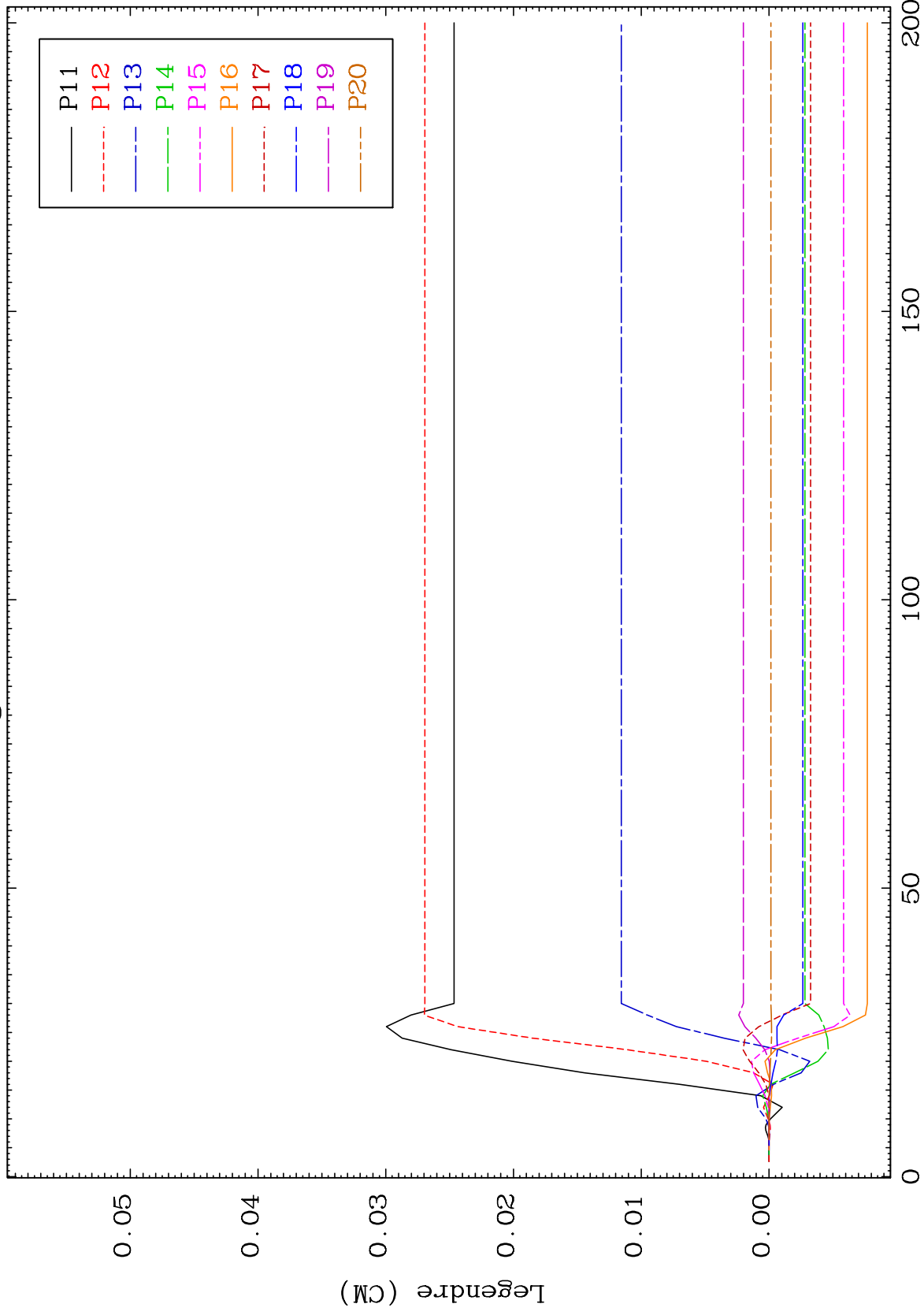


52

MAT 8216

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

82-Pb-201



53

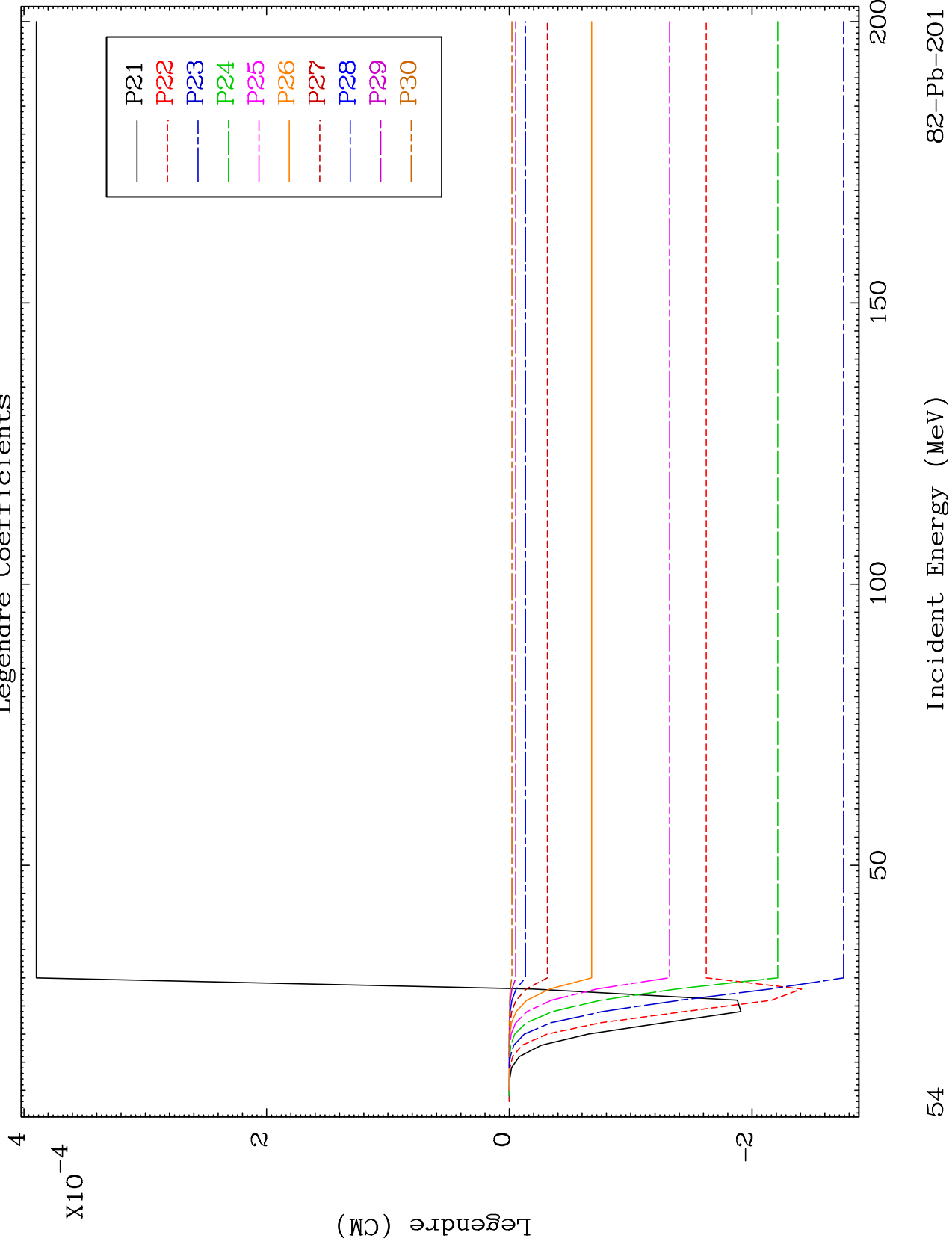
Incident Energy (MeV)

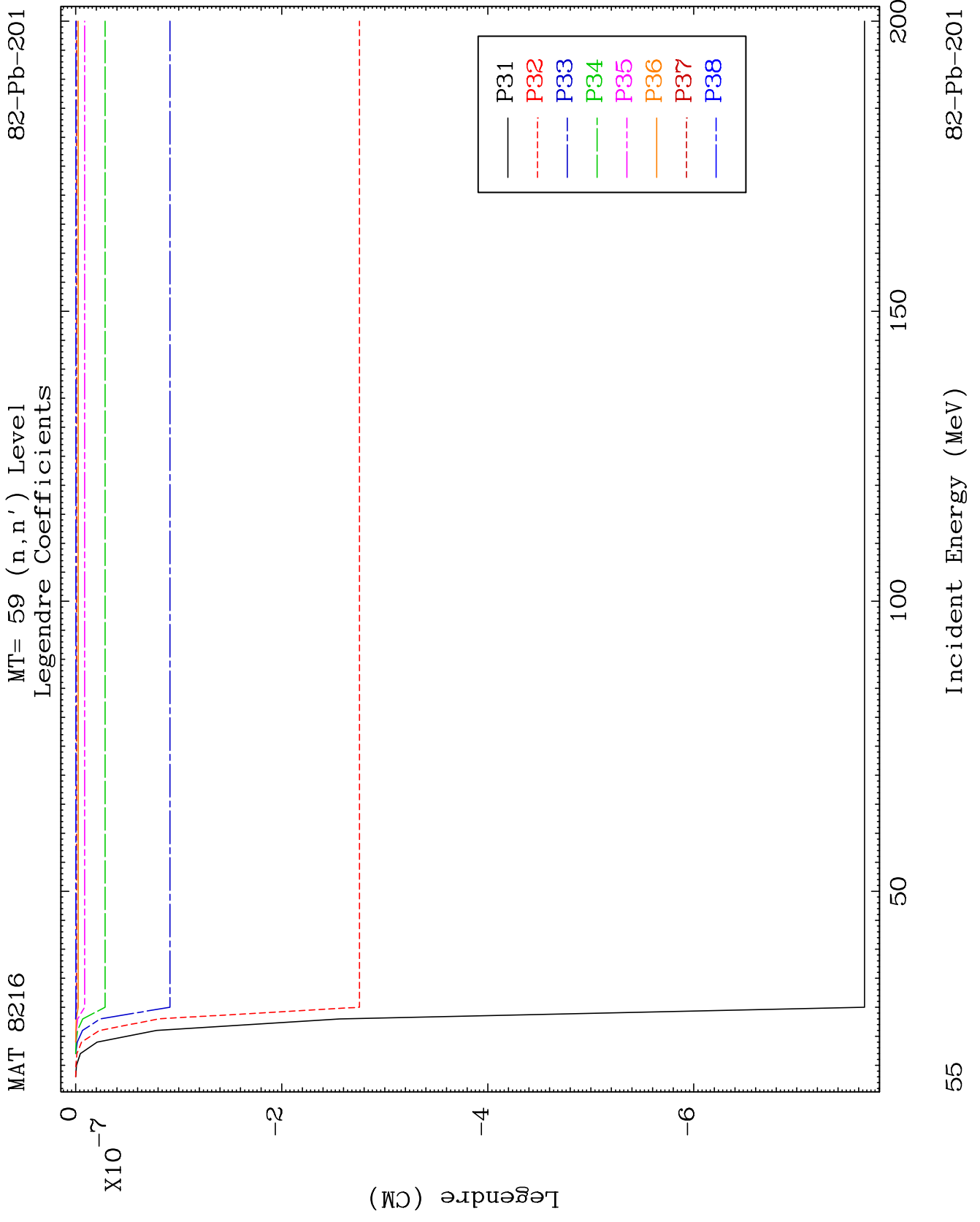
82-Pb-201

MAT 8216

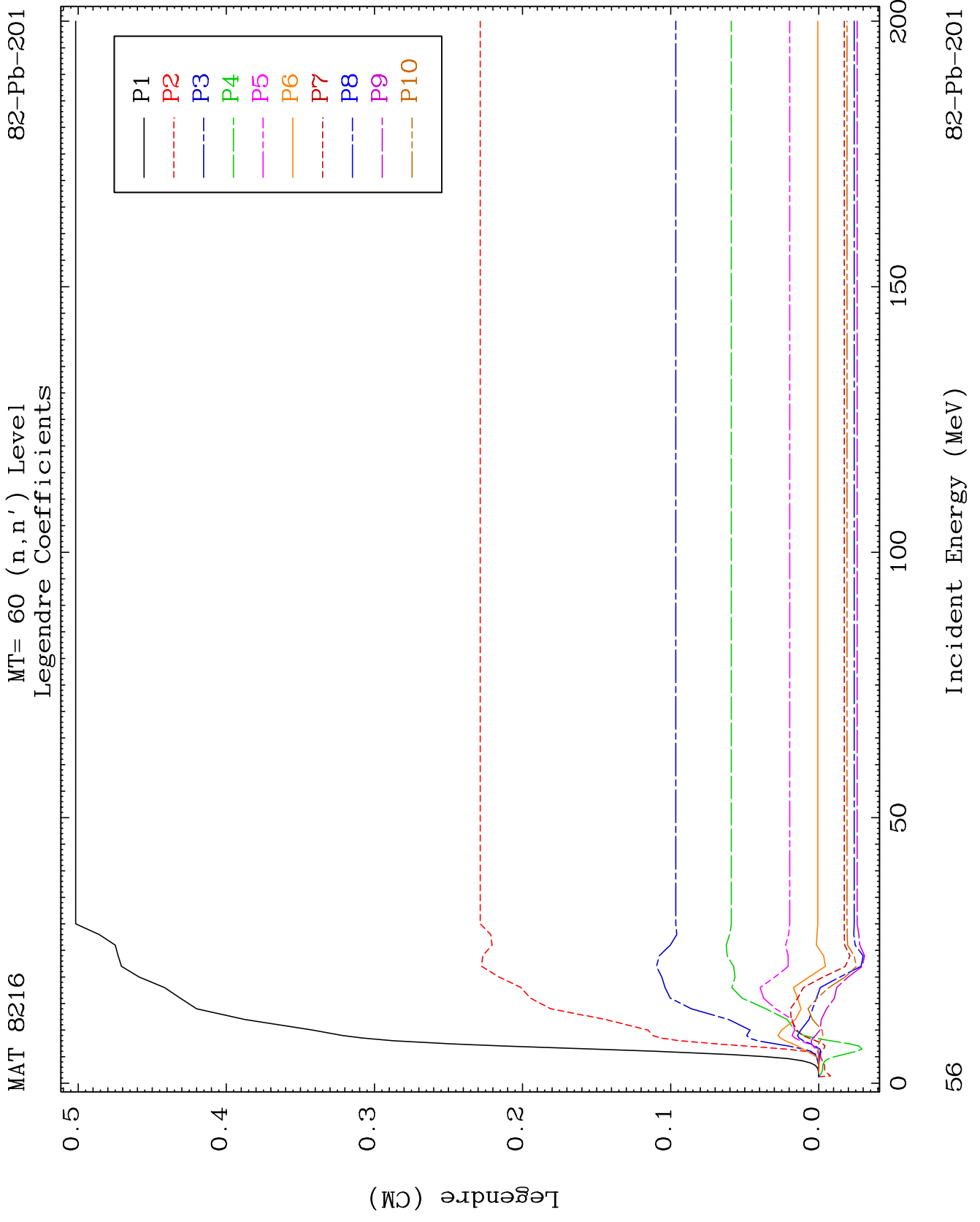
MT= 59 (n,n') Level  
Legendre Coefficients

82-Pb-201





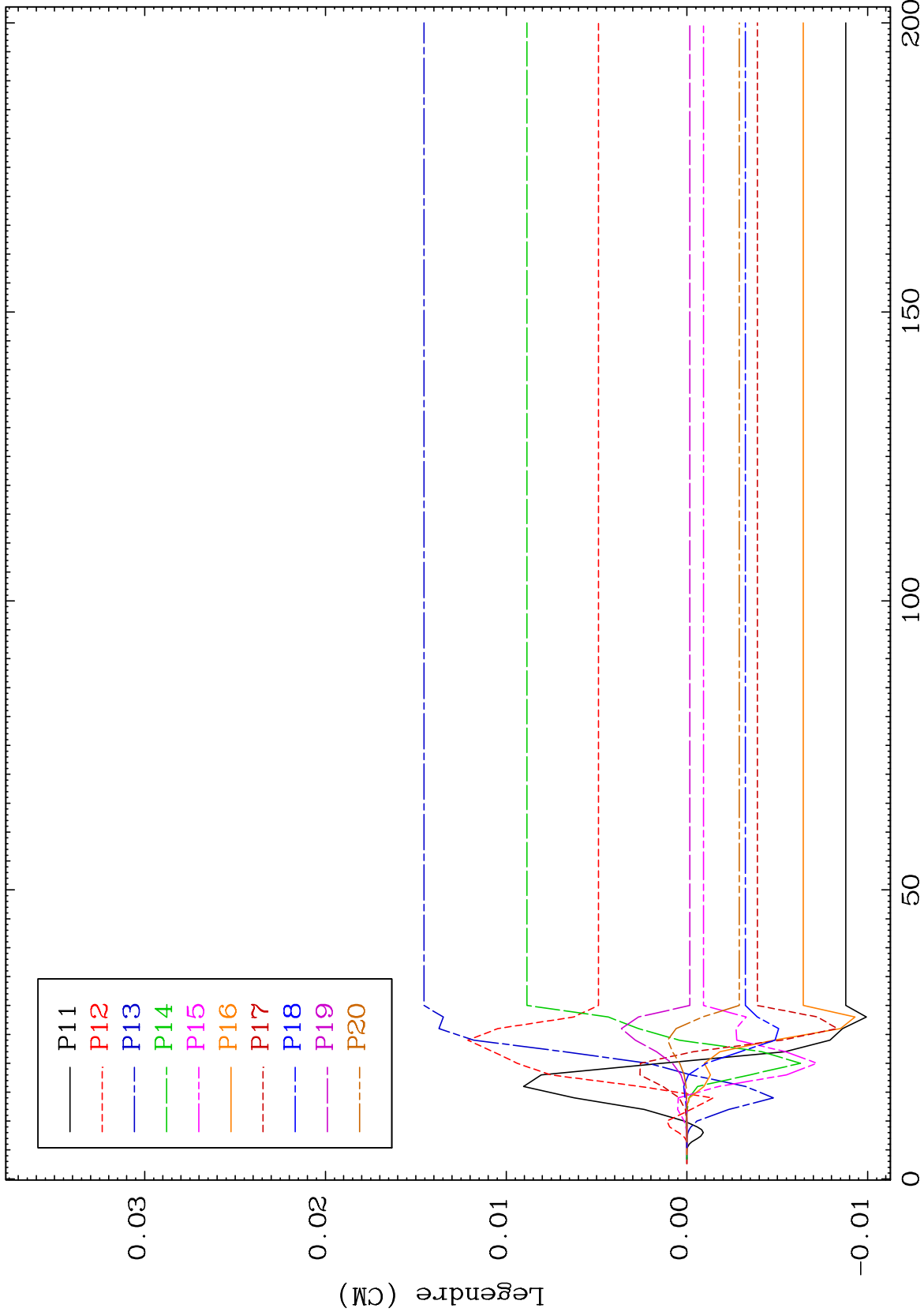




MAT 8216

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

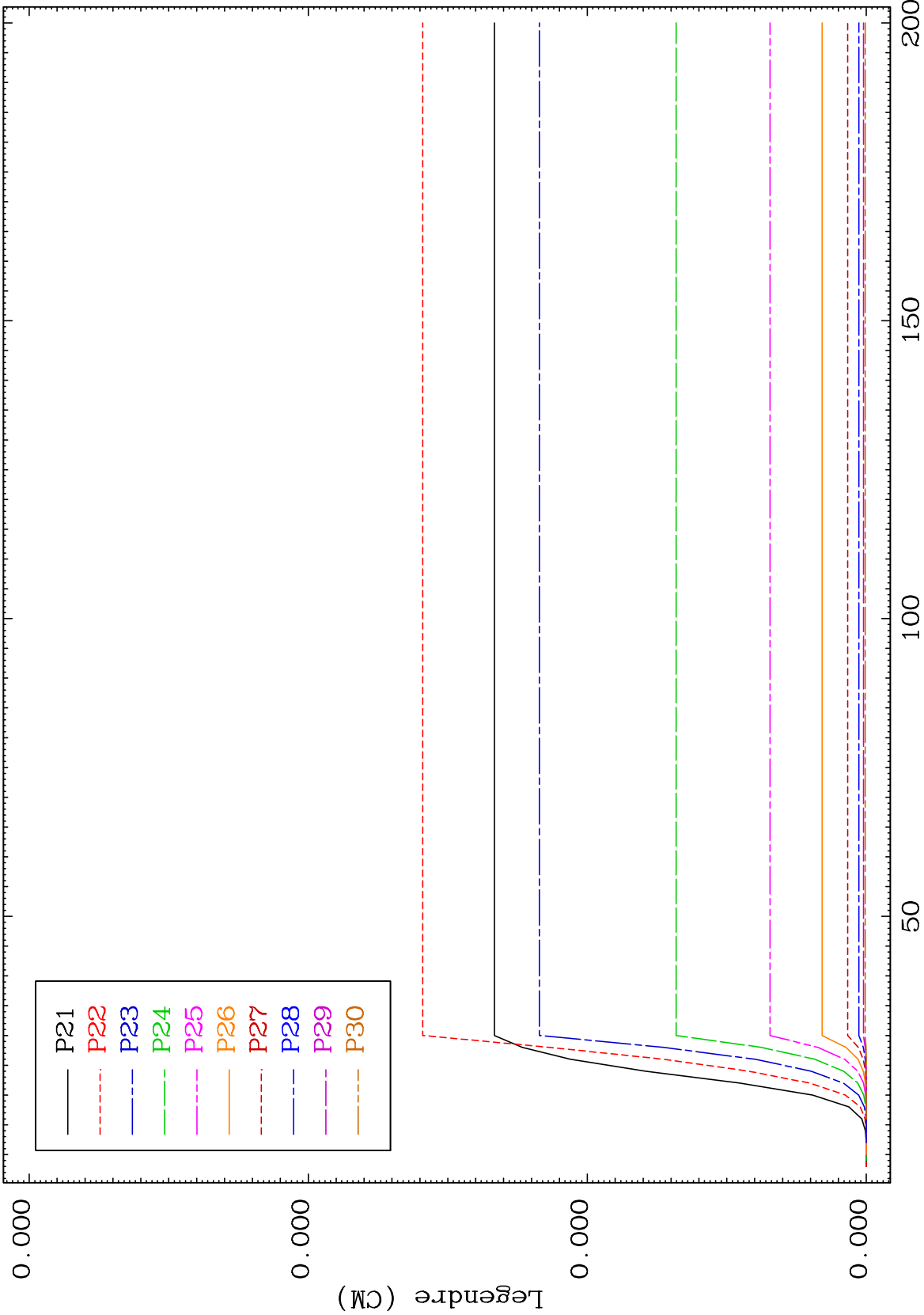
82-Pb-201



MAT 8216

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

82-Pb-201



58

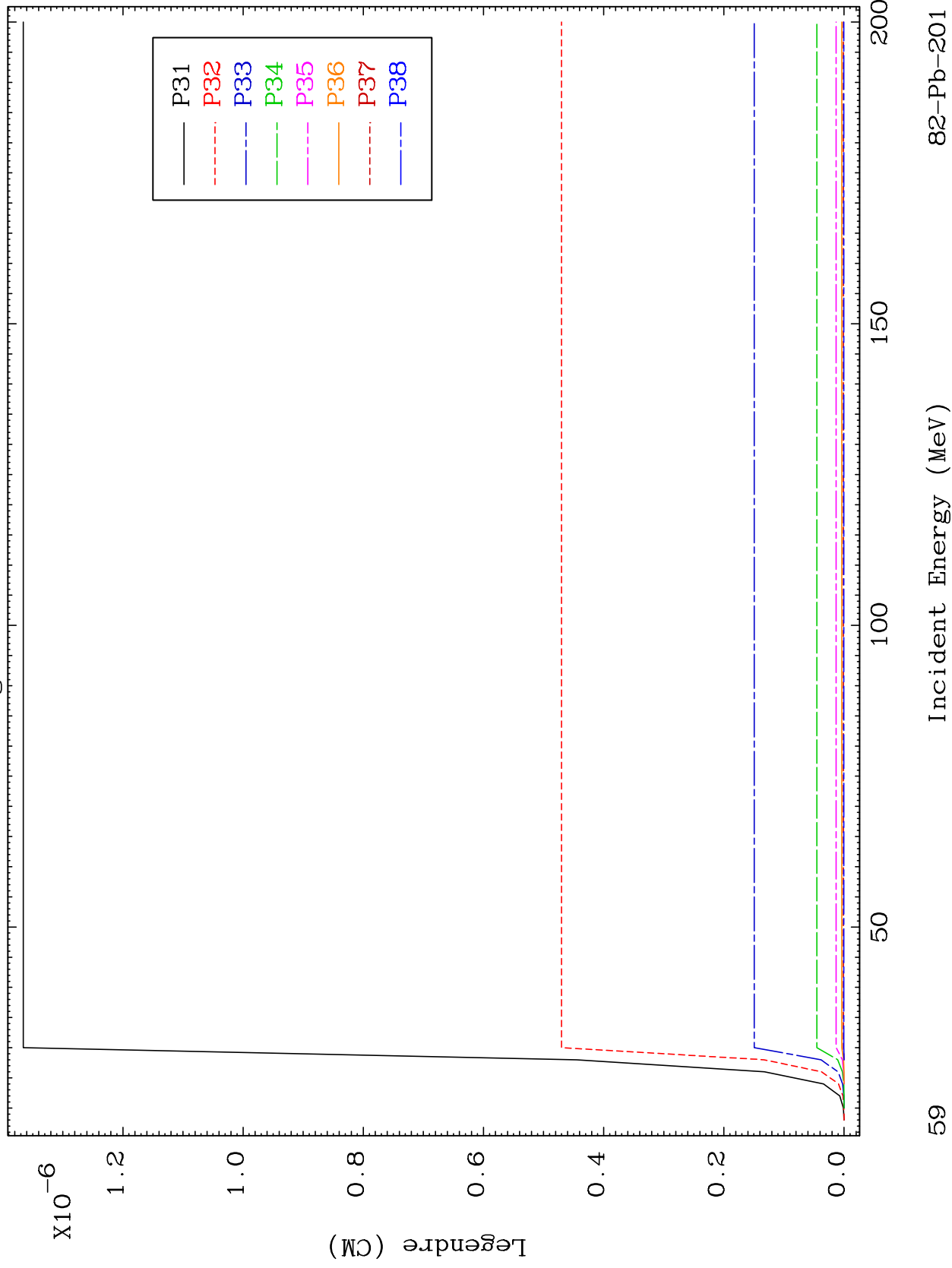
Incident Energy (MeV)

82-Pb-201

MAT 8216

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

82-Pb-201



59

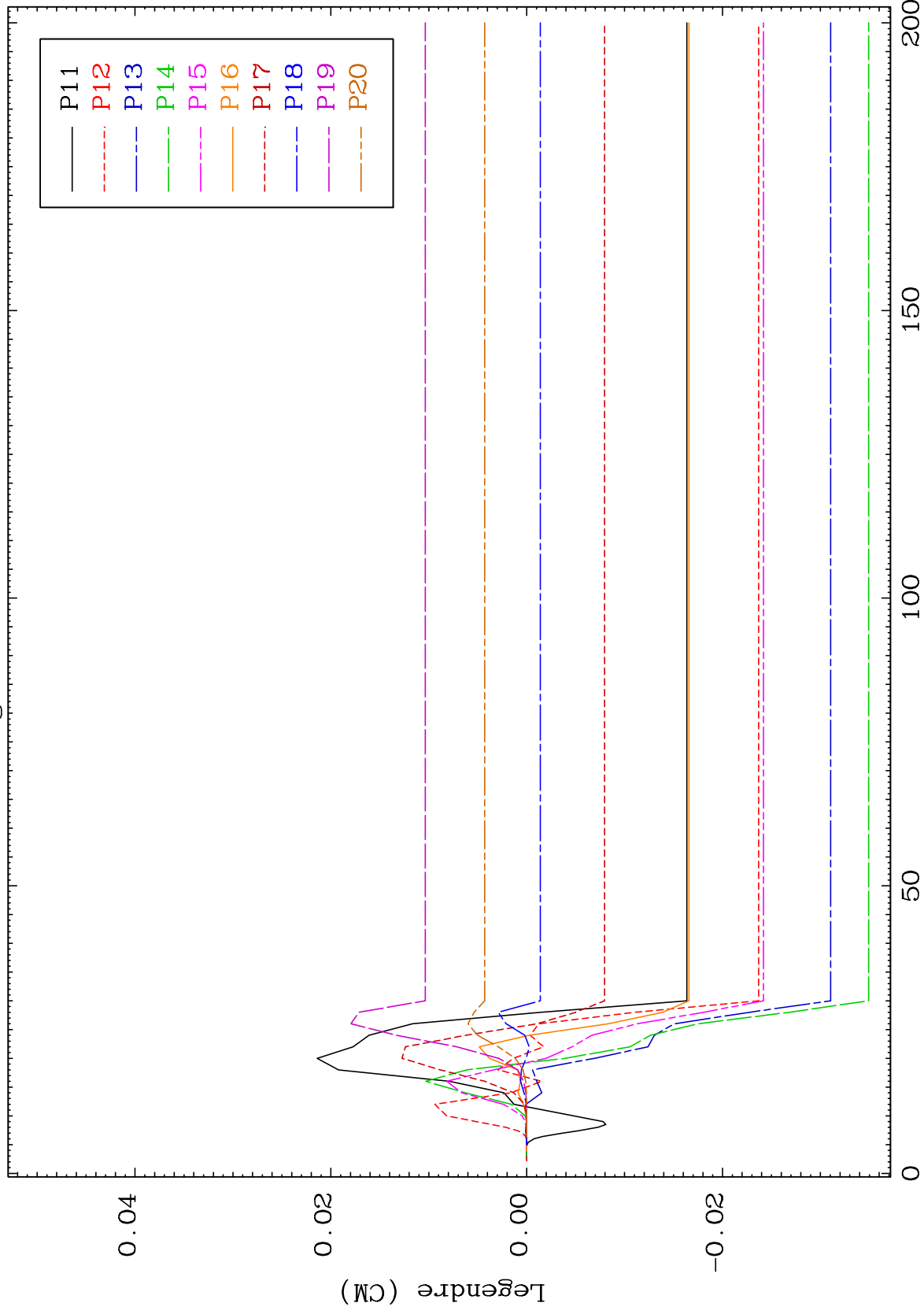
82-Pb-201



MAT 8216

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

82-Pb-201



61

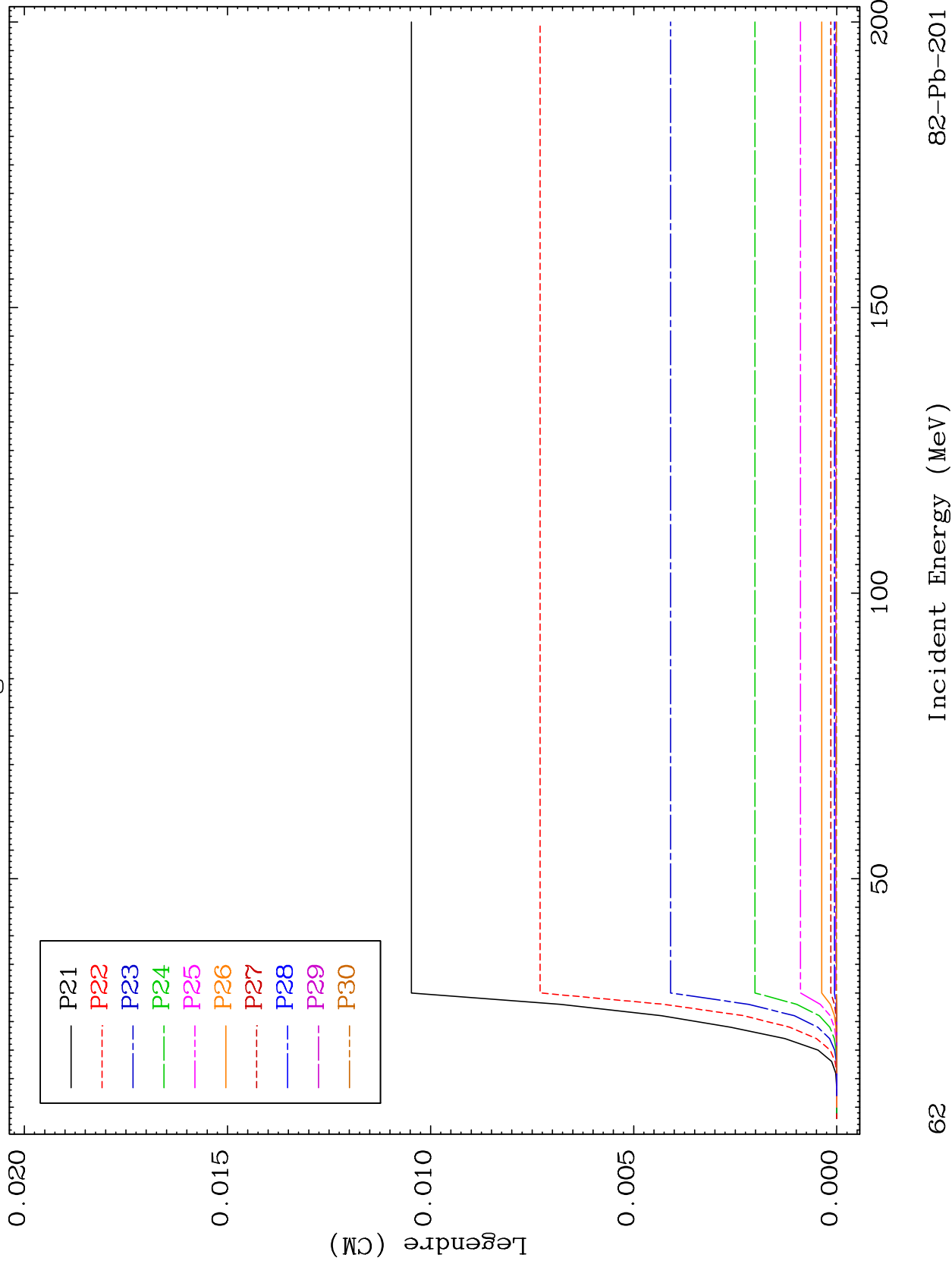
Incident Energy (MeV)

82-Pb-201

MAT 8216

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

82-Pb-201



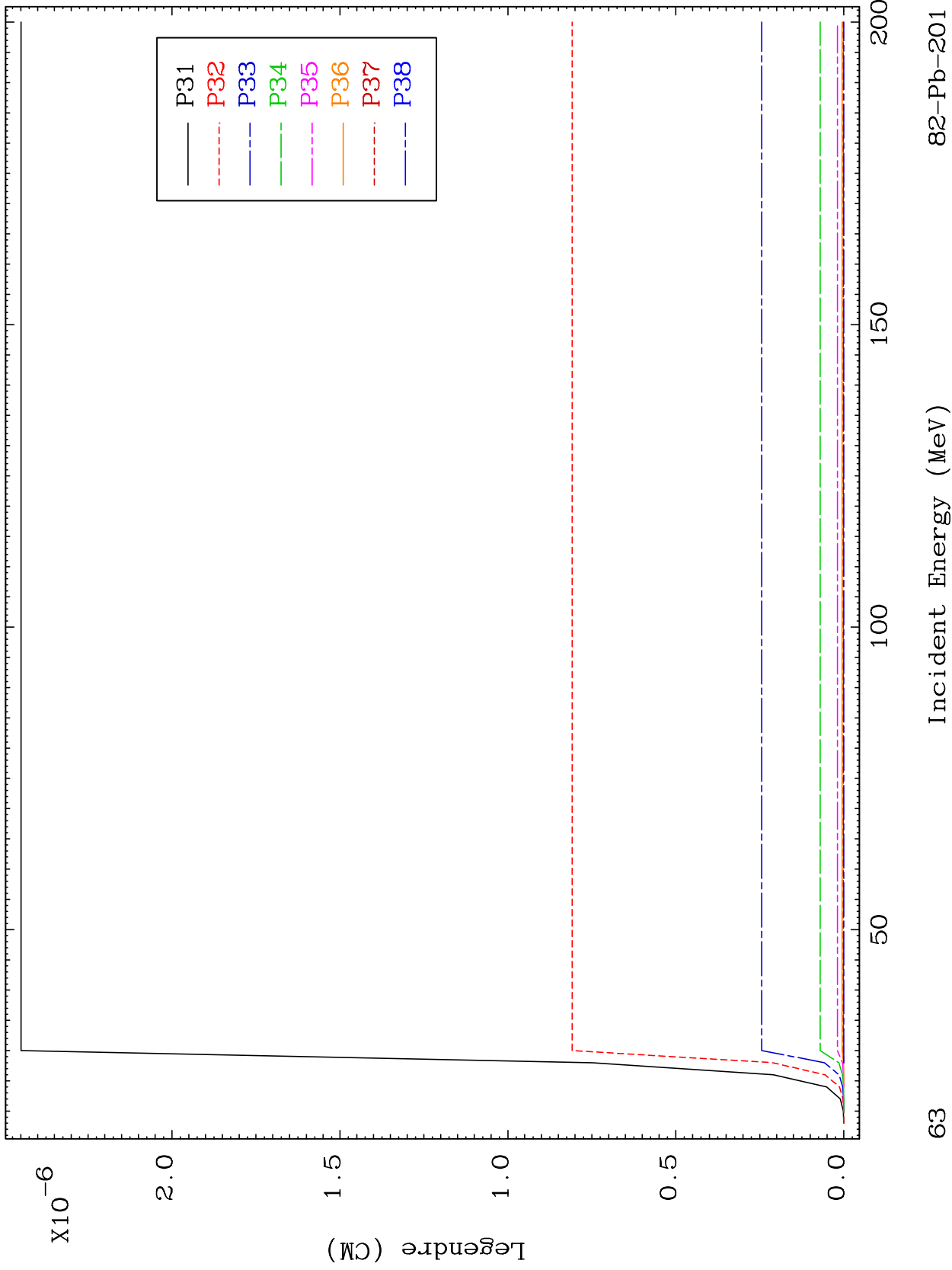
62

82-Pb-201

MAT 8216

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

82-Pb-201



63

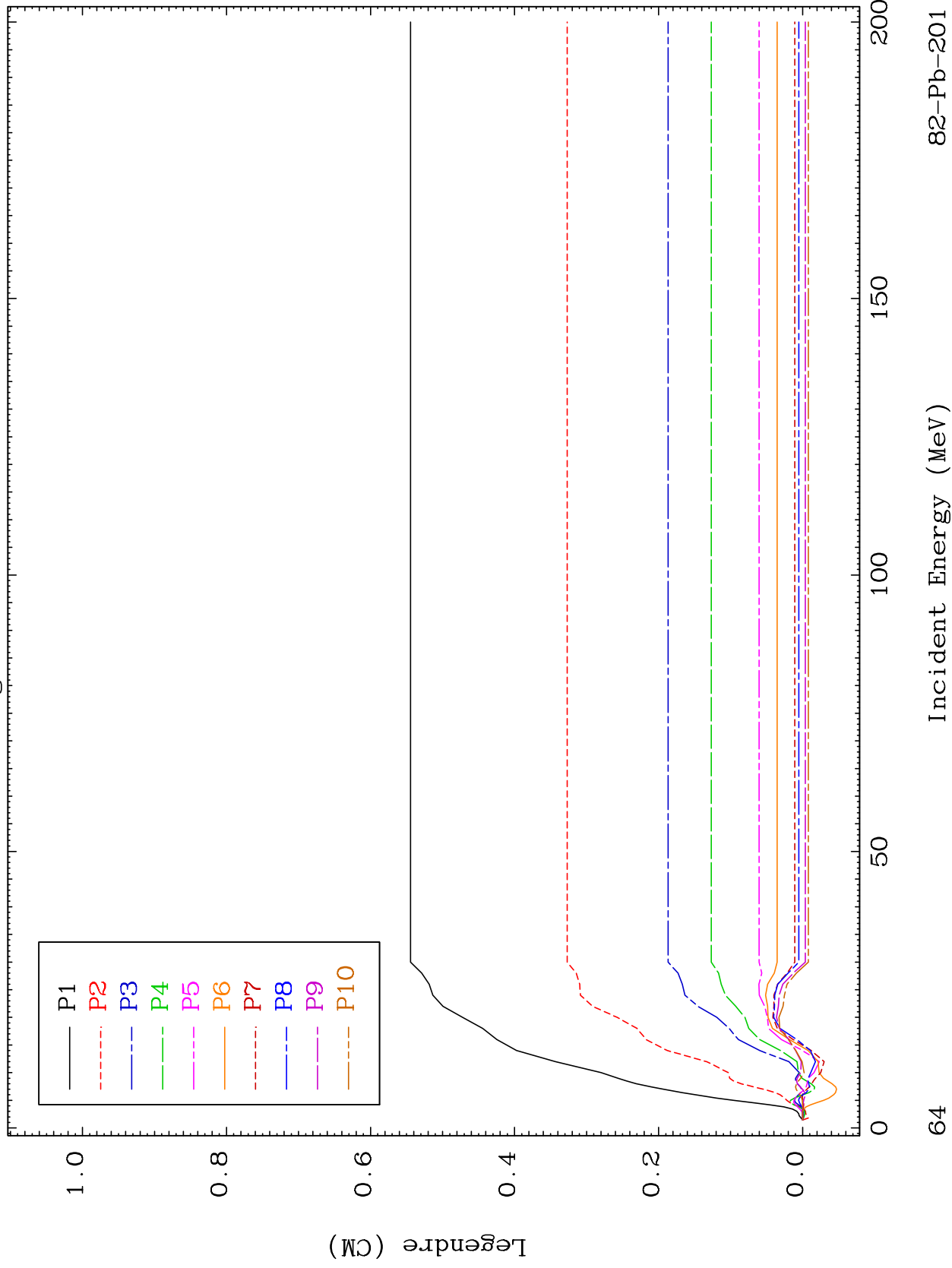
82-Pb-201



MAT 8216

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

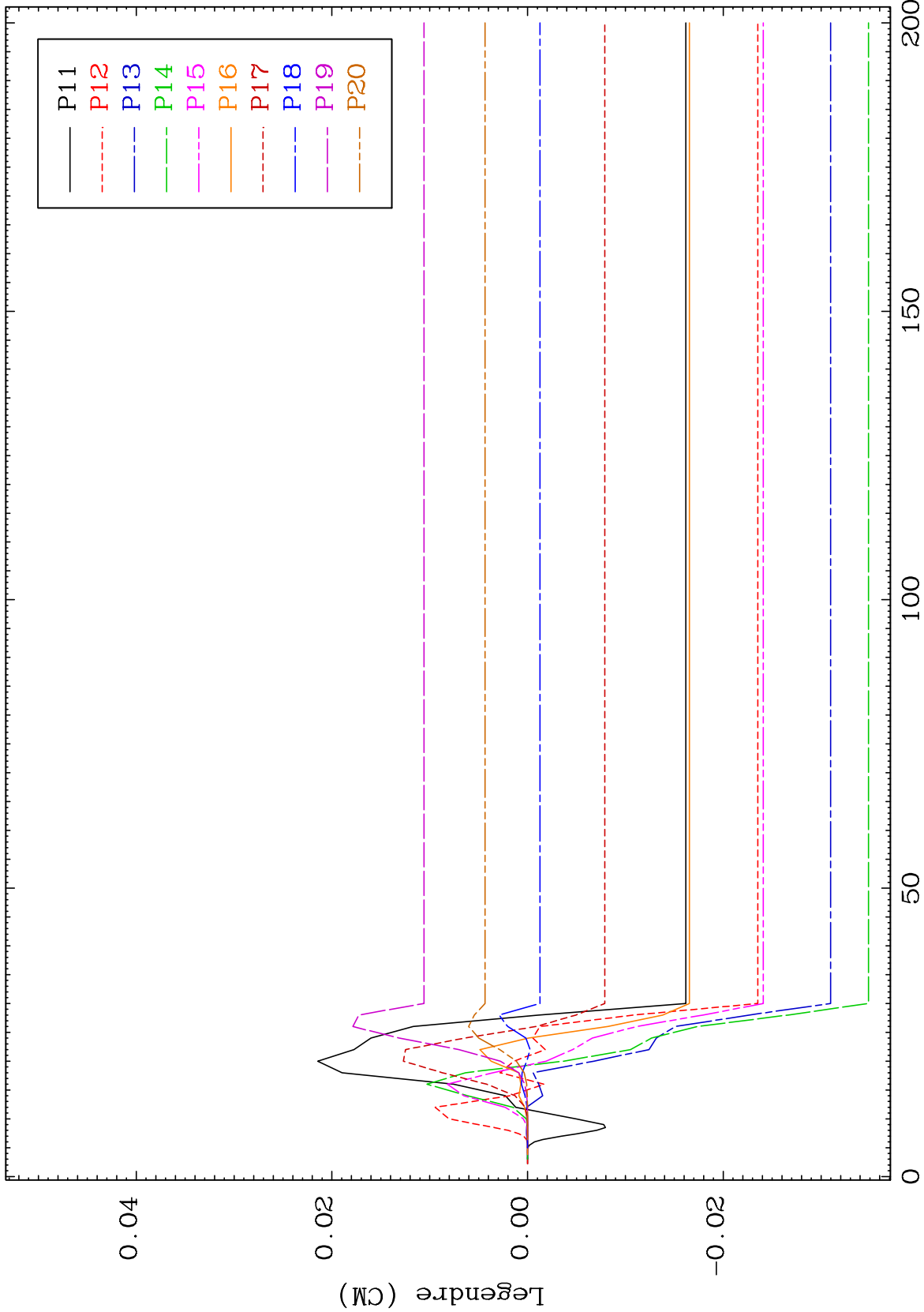
82-Pb-201



MAT 8216

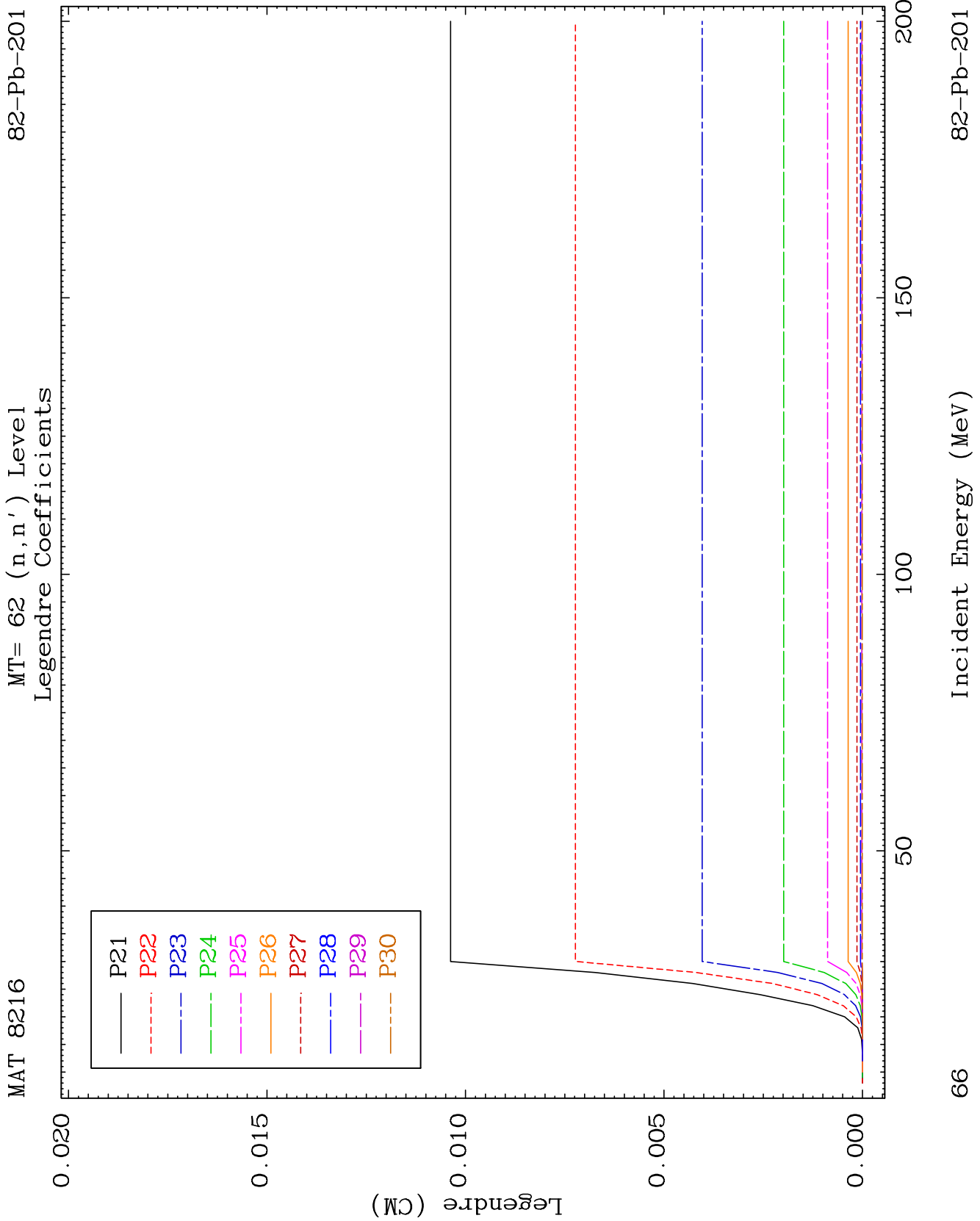
MT= 62 (n,n') Level  
Legendre Coefficients

82-Pb-201



65

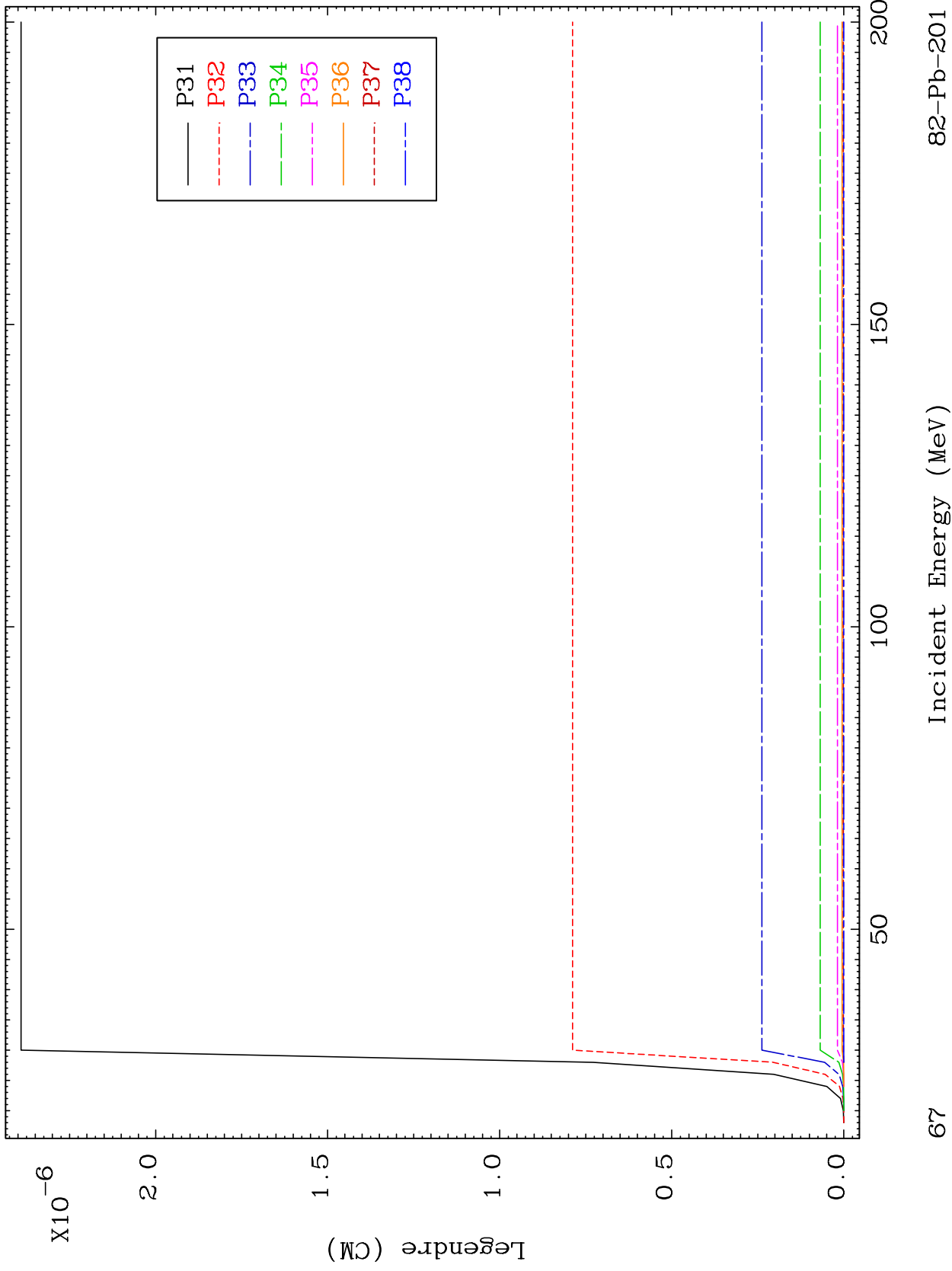
82-Pb-201



MAT 8216

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

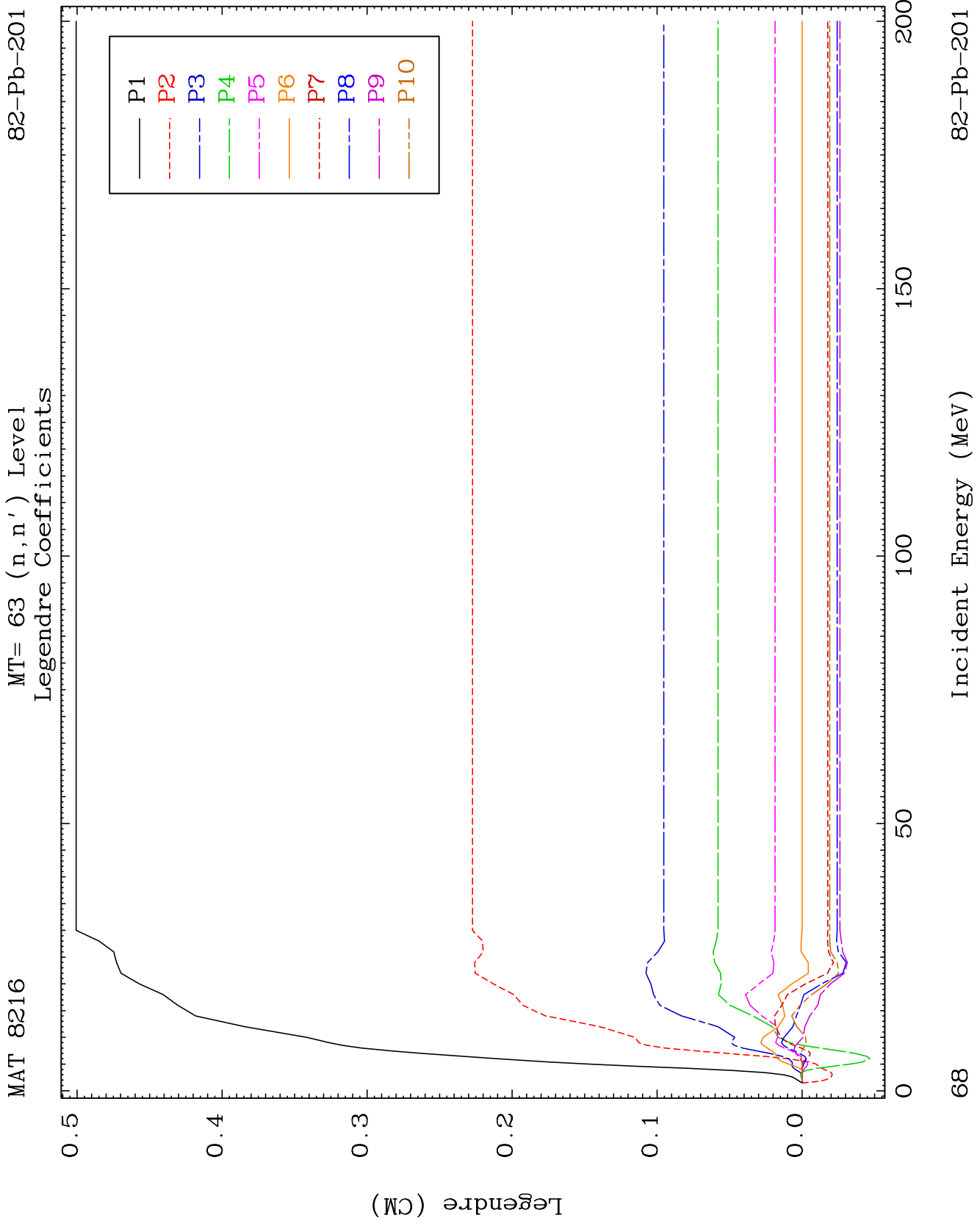
82-Pb-201



67

Incident Energy (MeV)

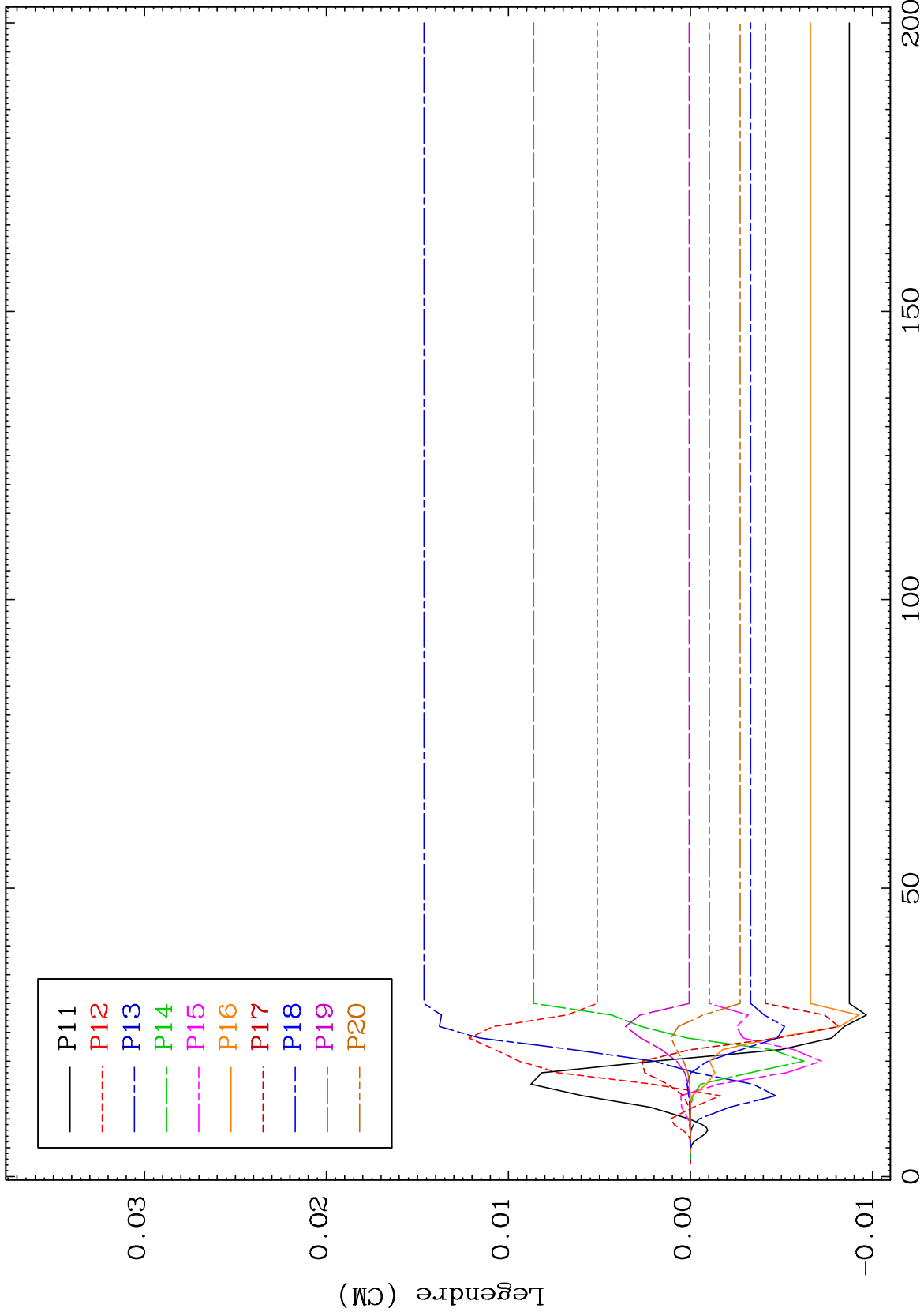
82-Pb-201



MAT 8216

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

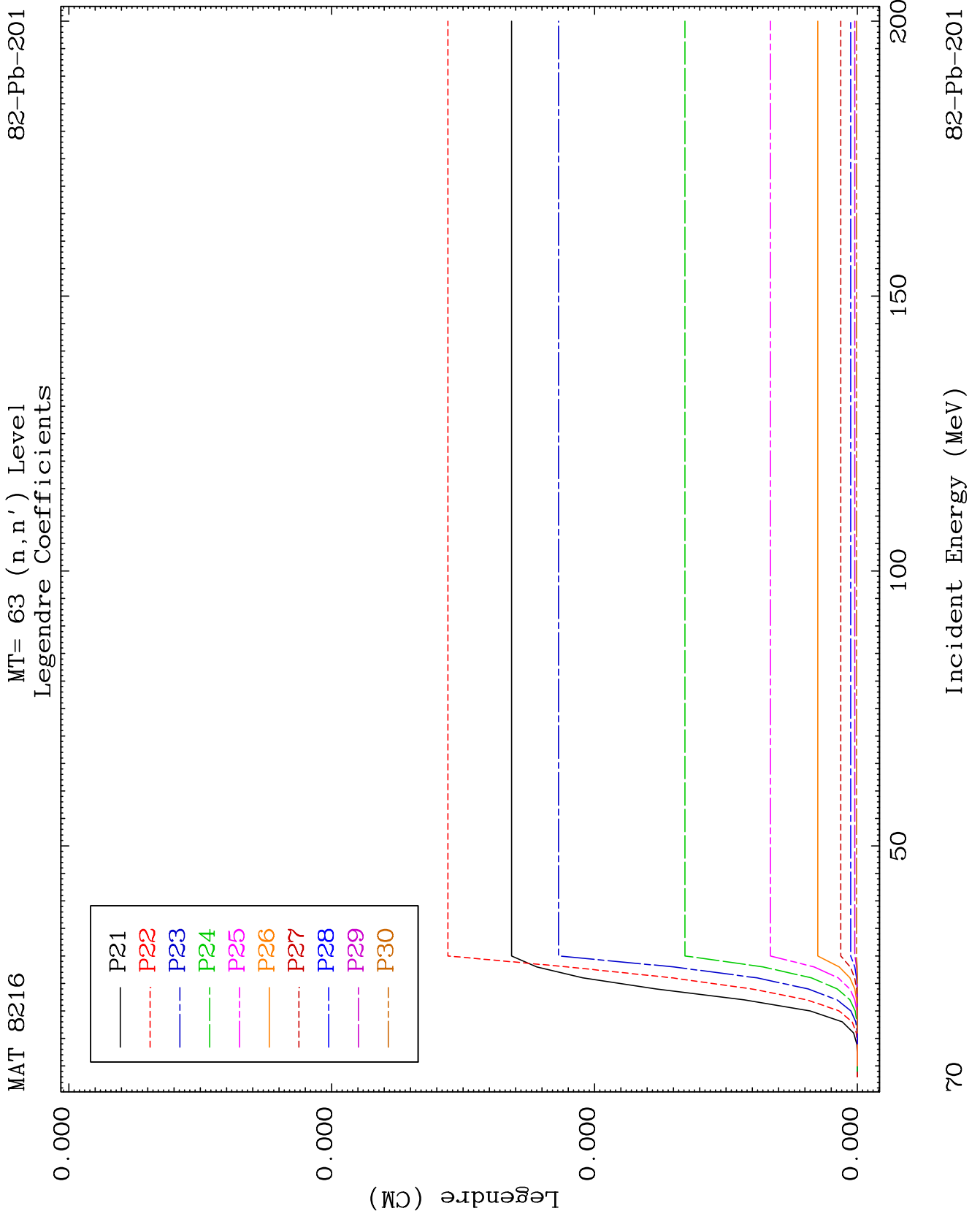
82-Pb-201



69

Incident Energy (MeV)

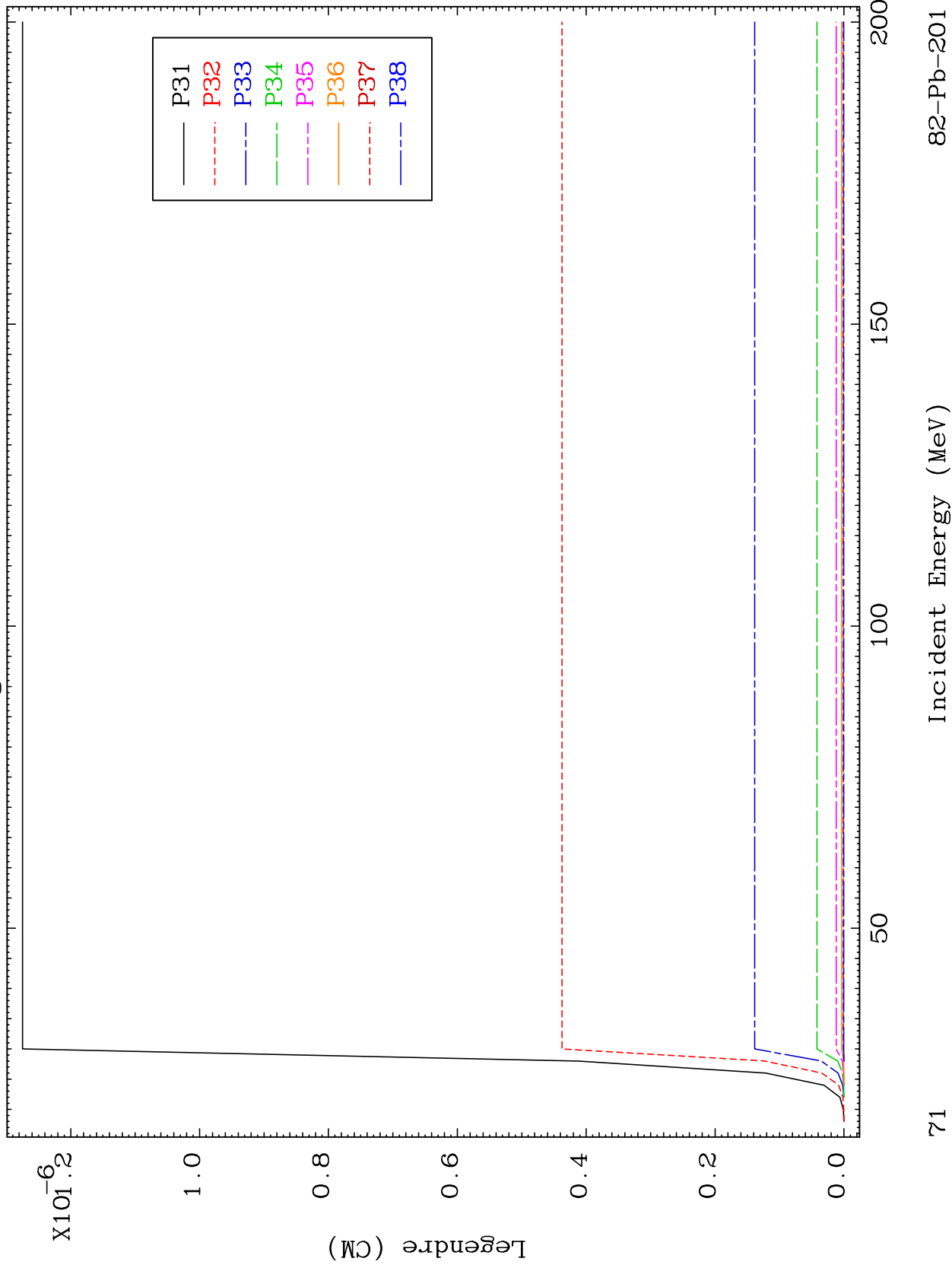
82-Pb-201



MAT 8216

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

82-Pb-201



71

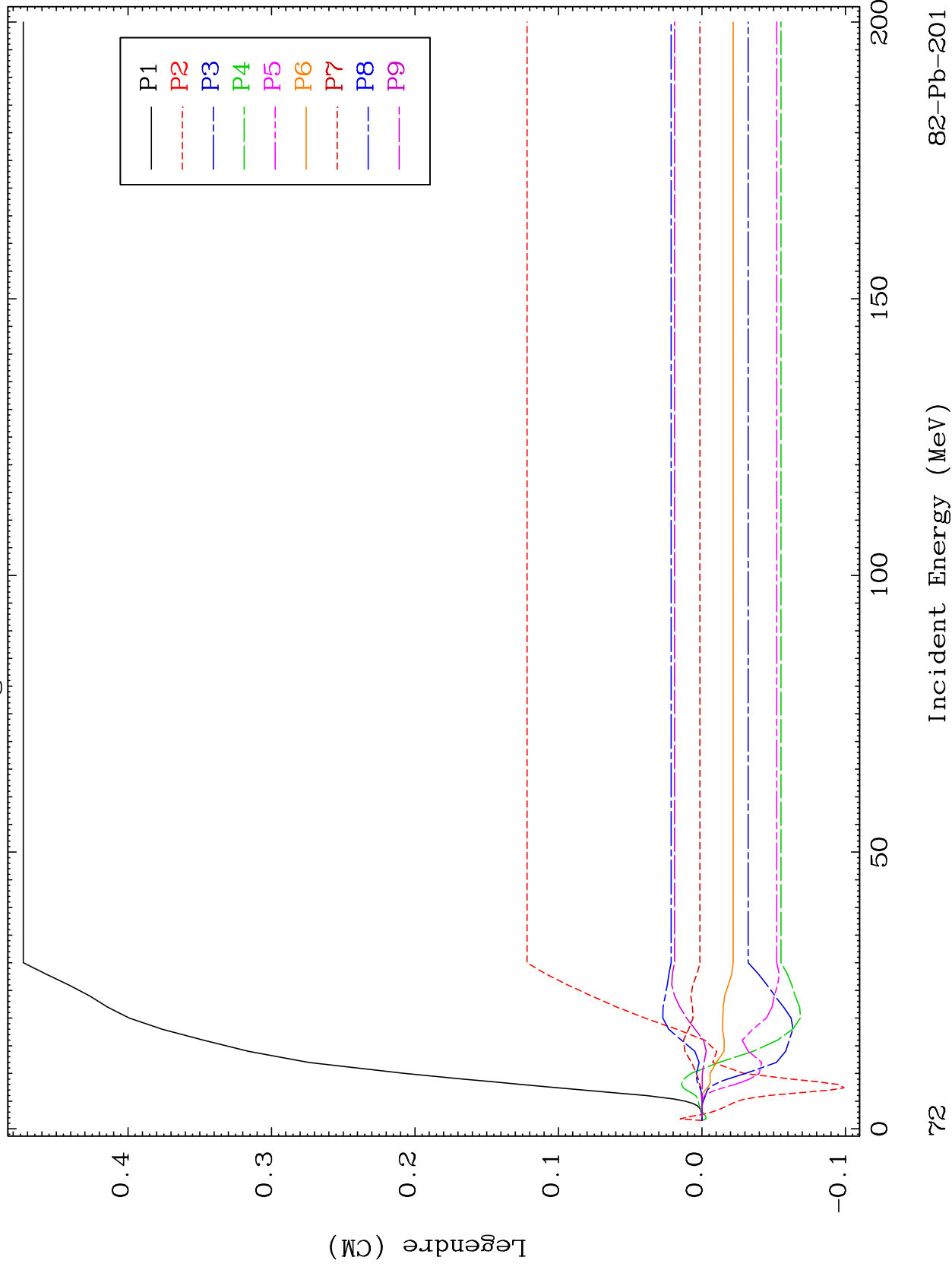
82-Pb-201



MAT 8216

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

82-Pb-201



82-Pb-201

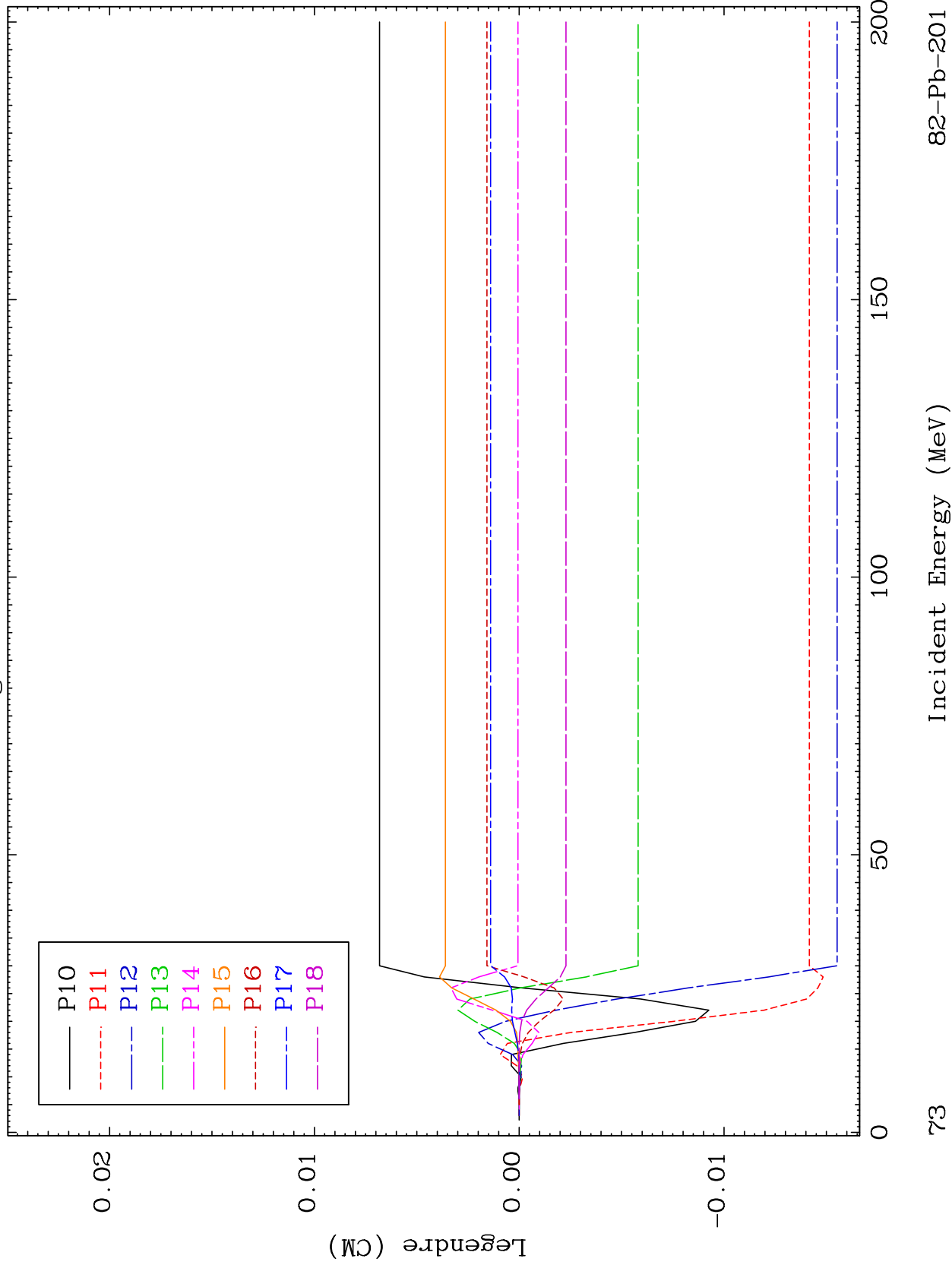
Incident Energy (MeV)

72

MAT 8216

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

82-Pb-201



73

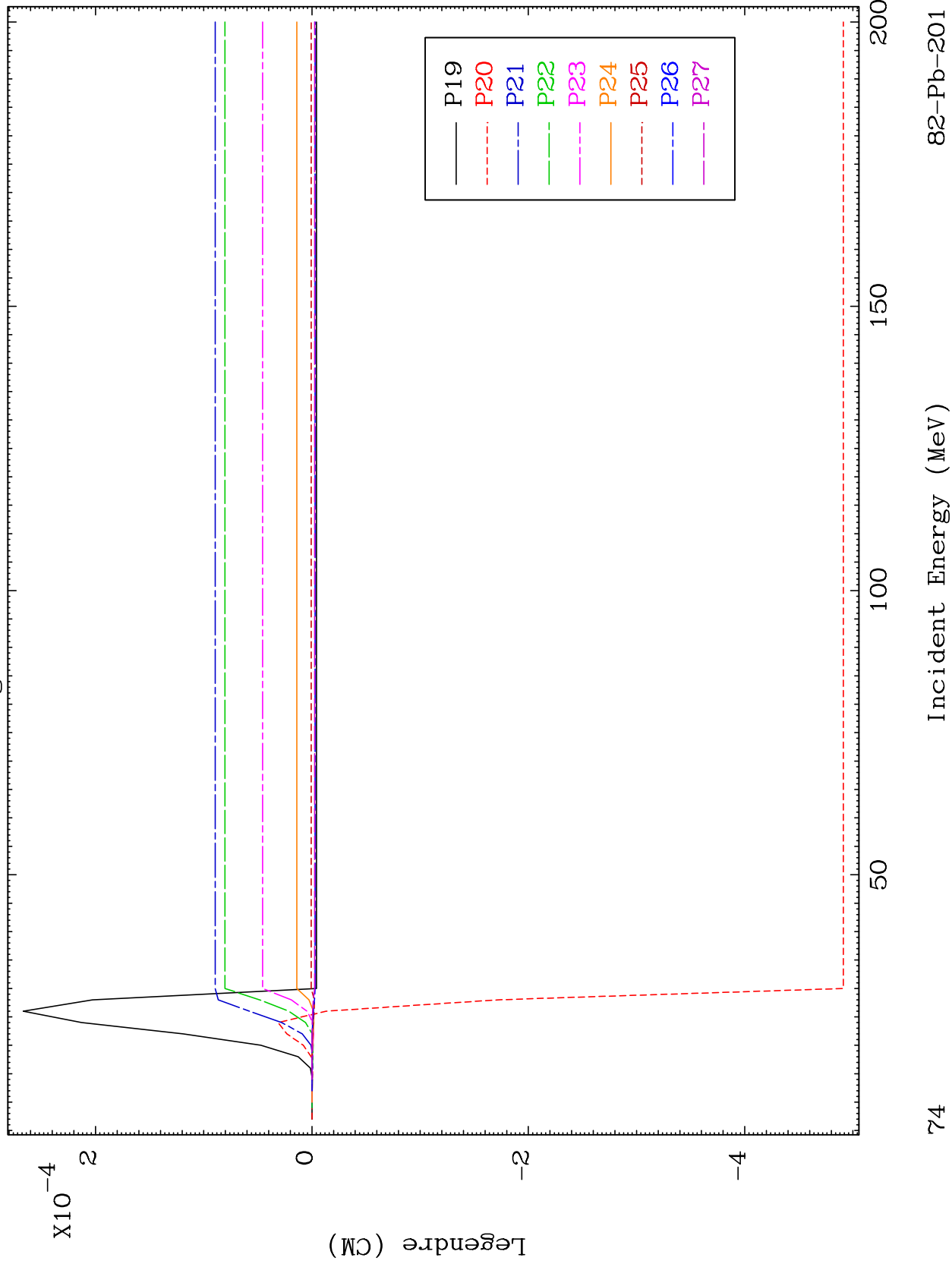
Incident Energy (MeV)

82-Pb-201

MAT 8216

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

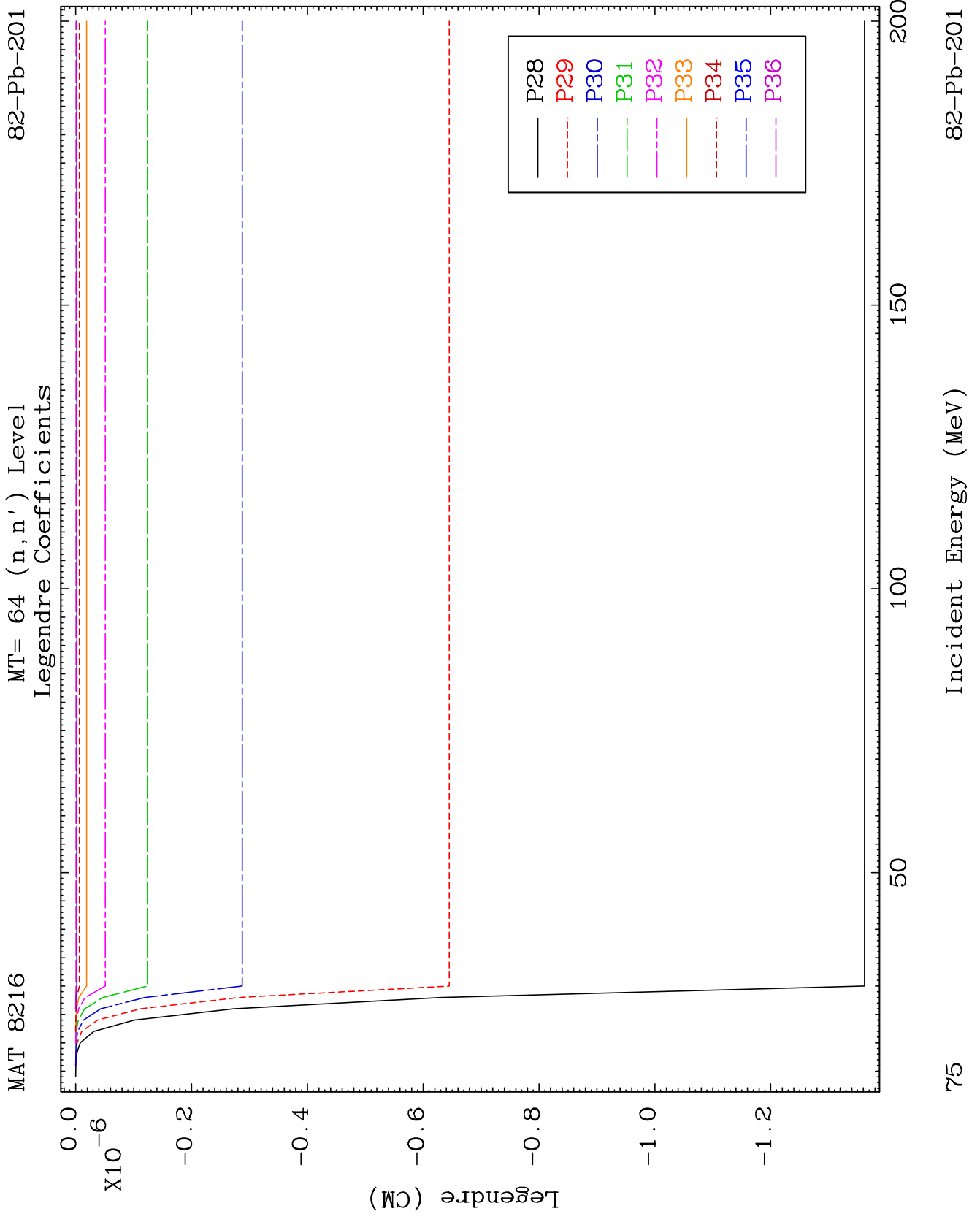
82-Pb-201



74

Incident Energy (MeV)

82-Pb-201

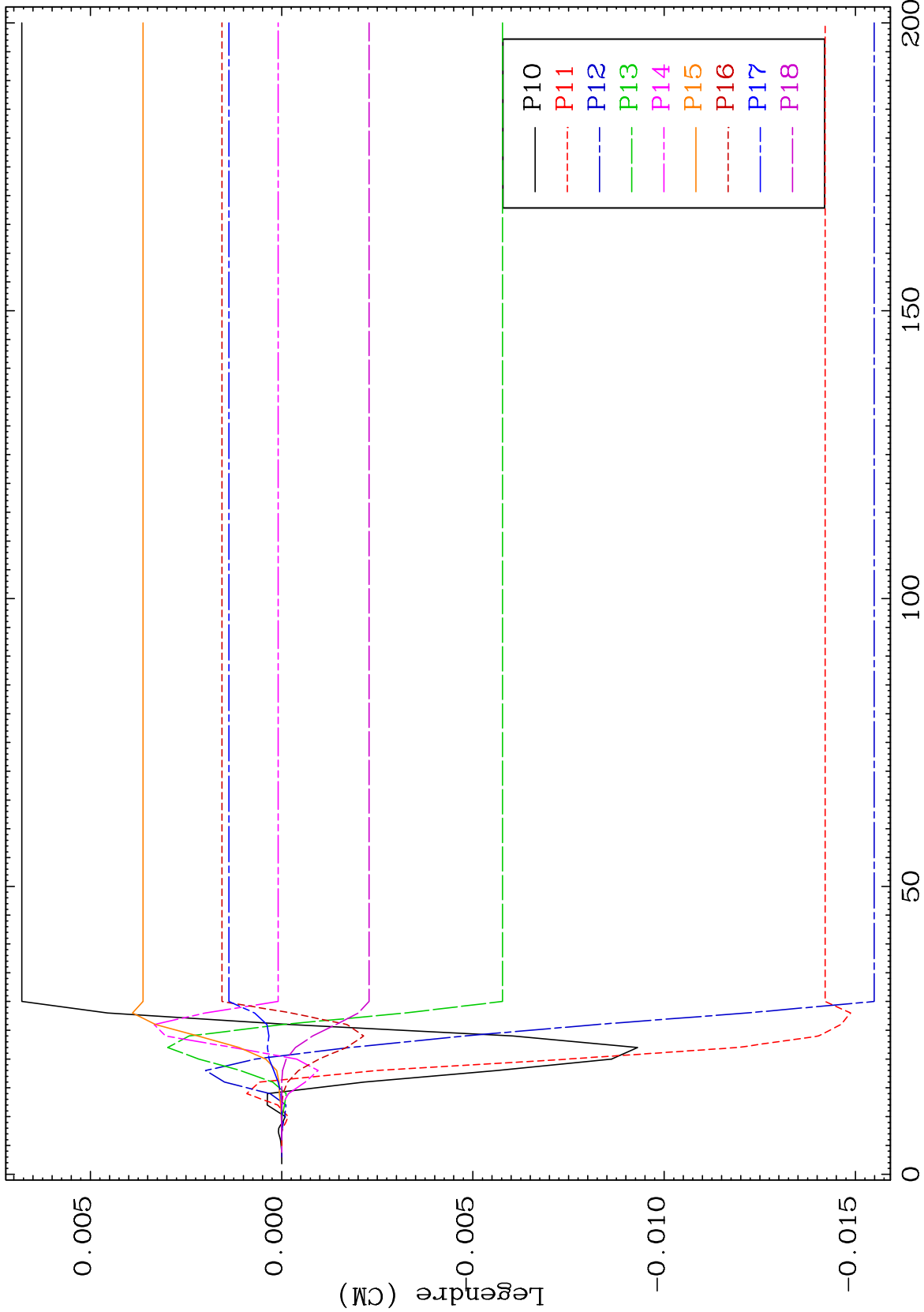




MAT 8216

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

82-Pb-201



77

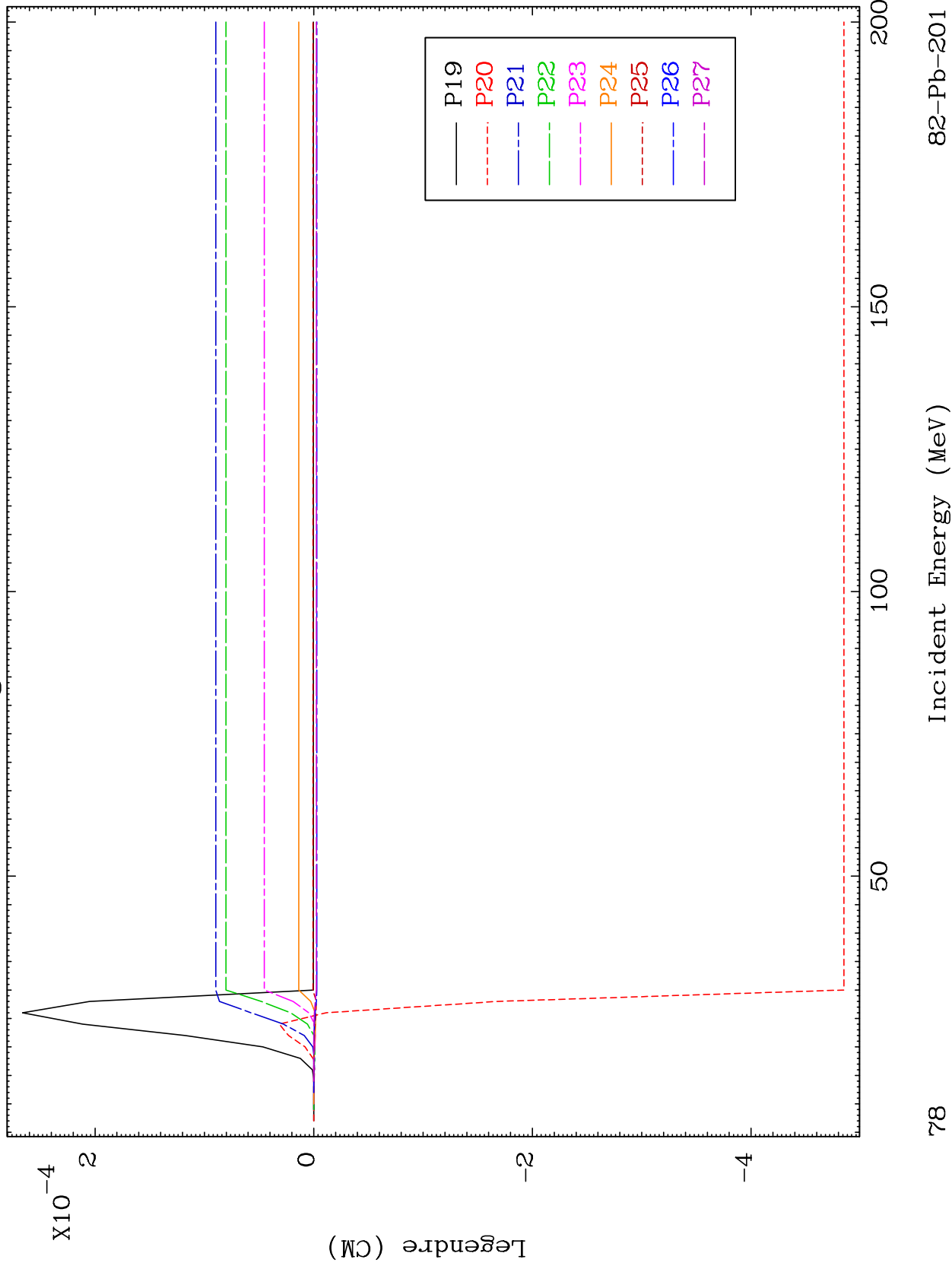
Incident Energy (MeV)

82-Pb-201

MAT 8216

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

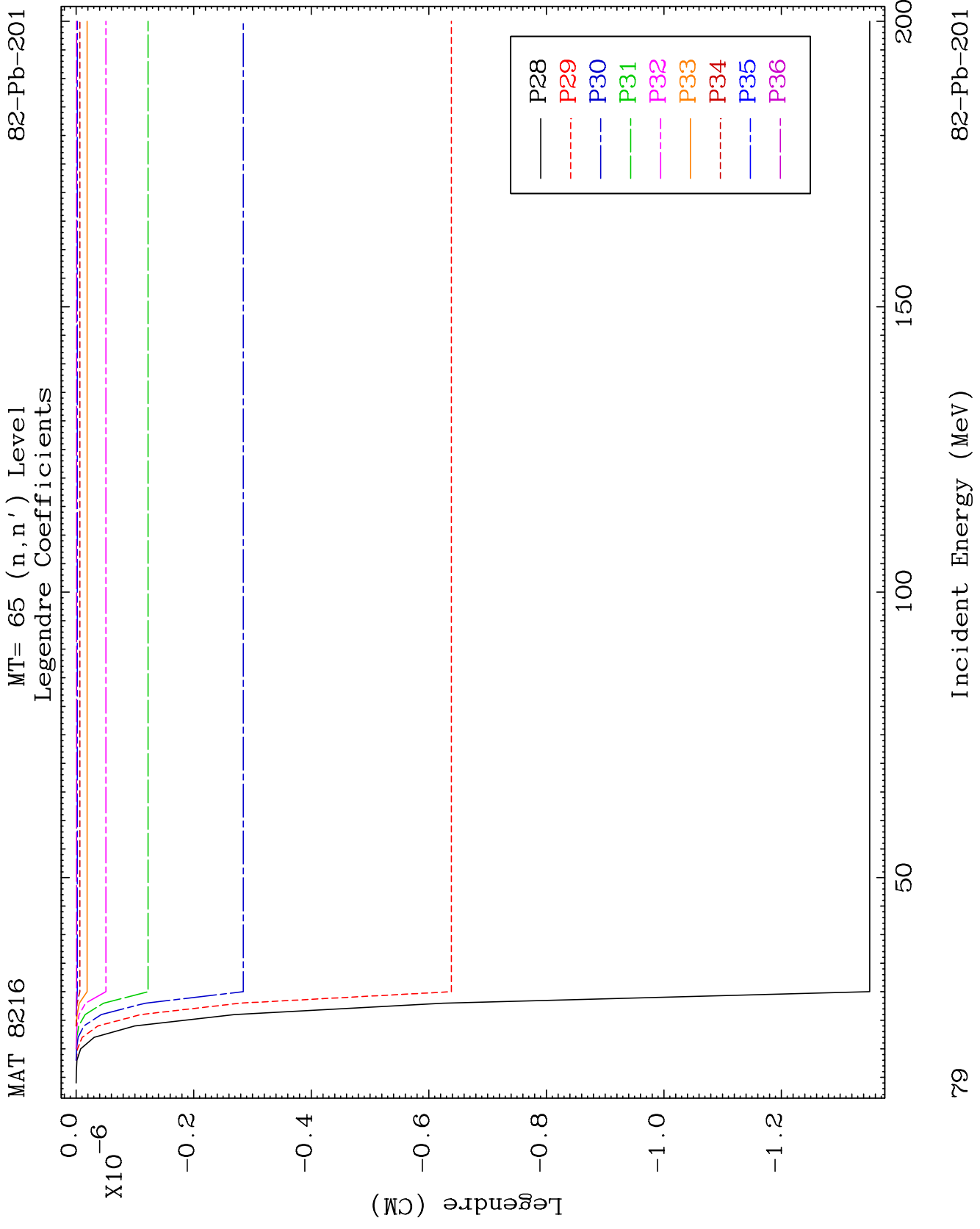
82-Pb-201



78

Incident Energy (MeV)

82-Pb-201

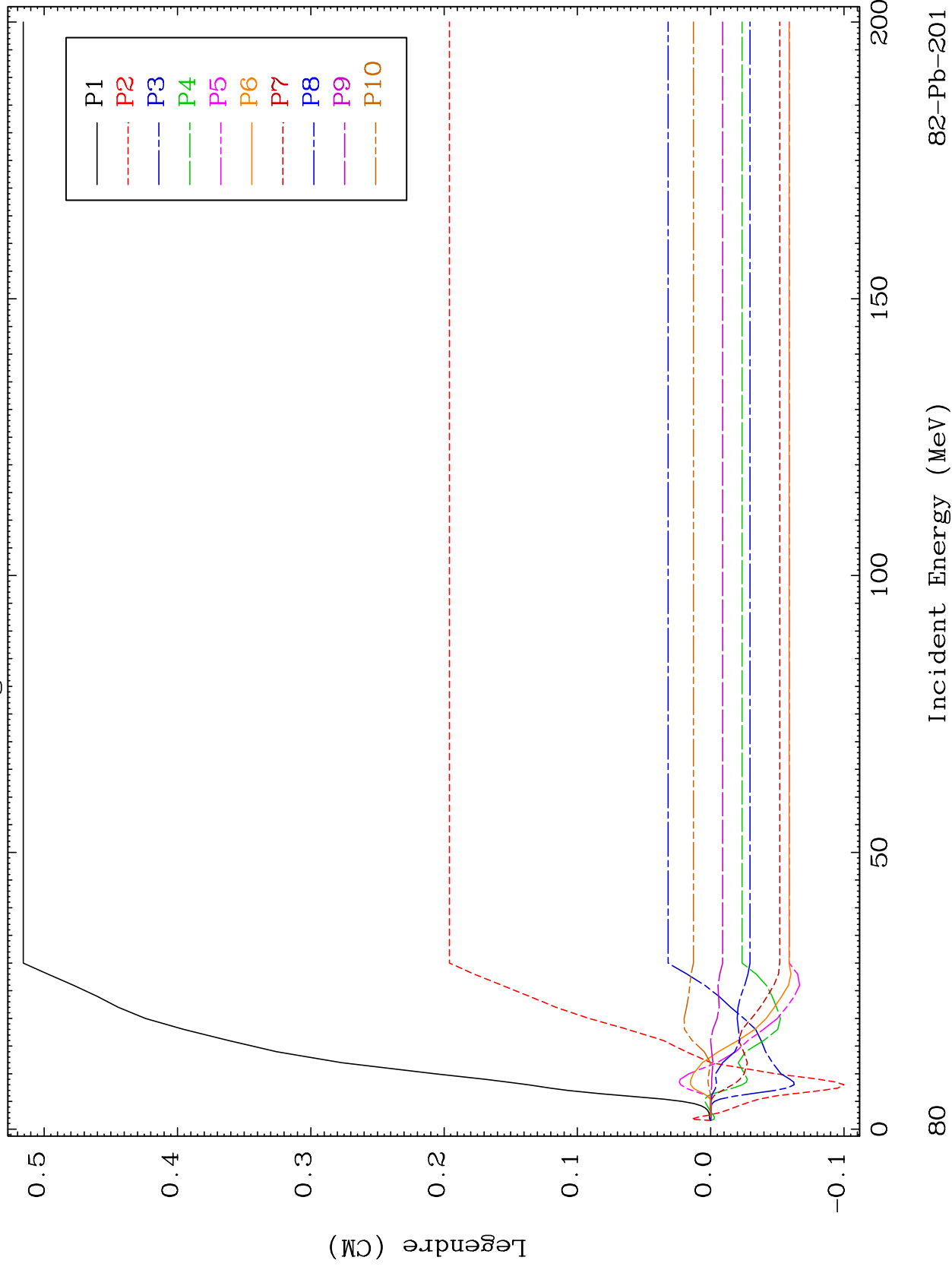




MAT 8216

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

82-Pb-201



82-Pb-201

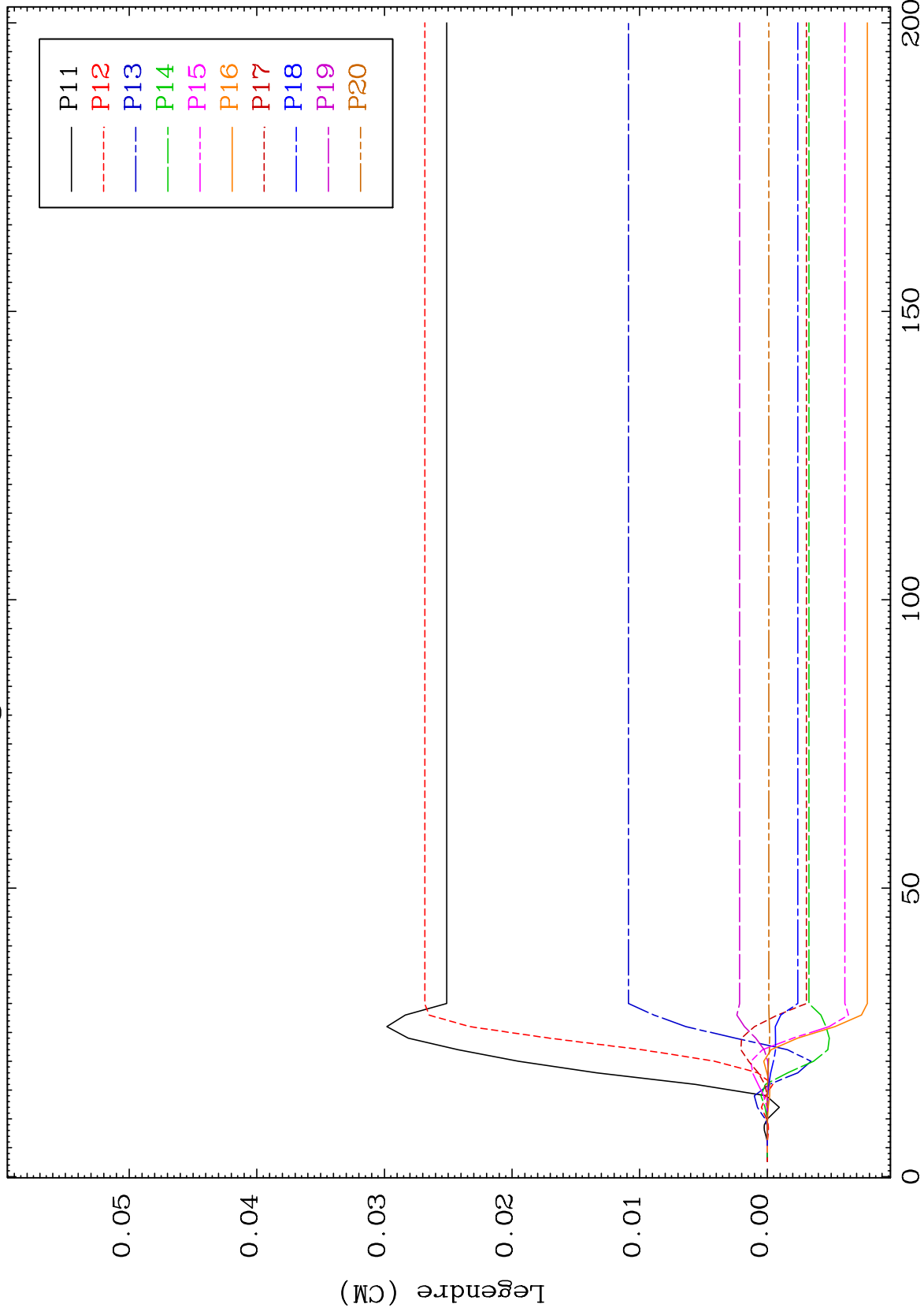
Incident Energy (MeV)

80

MAT 8216

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

82-Pb-201



81

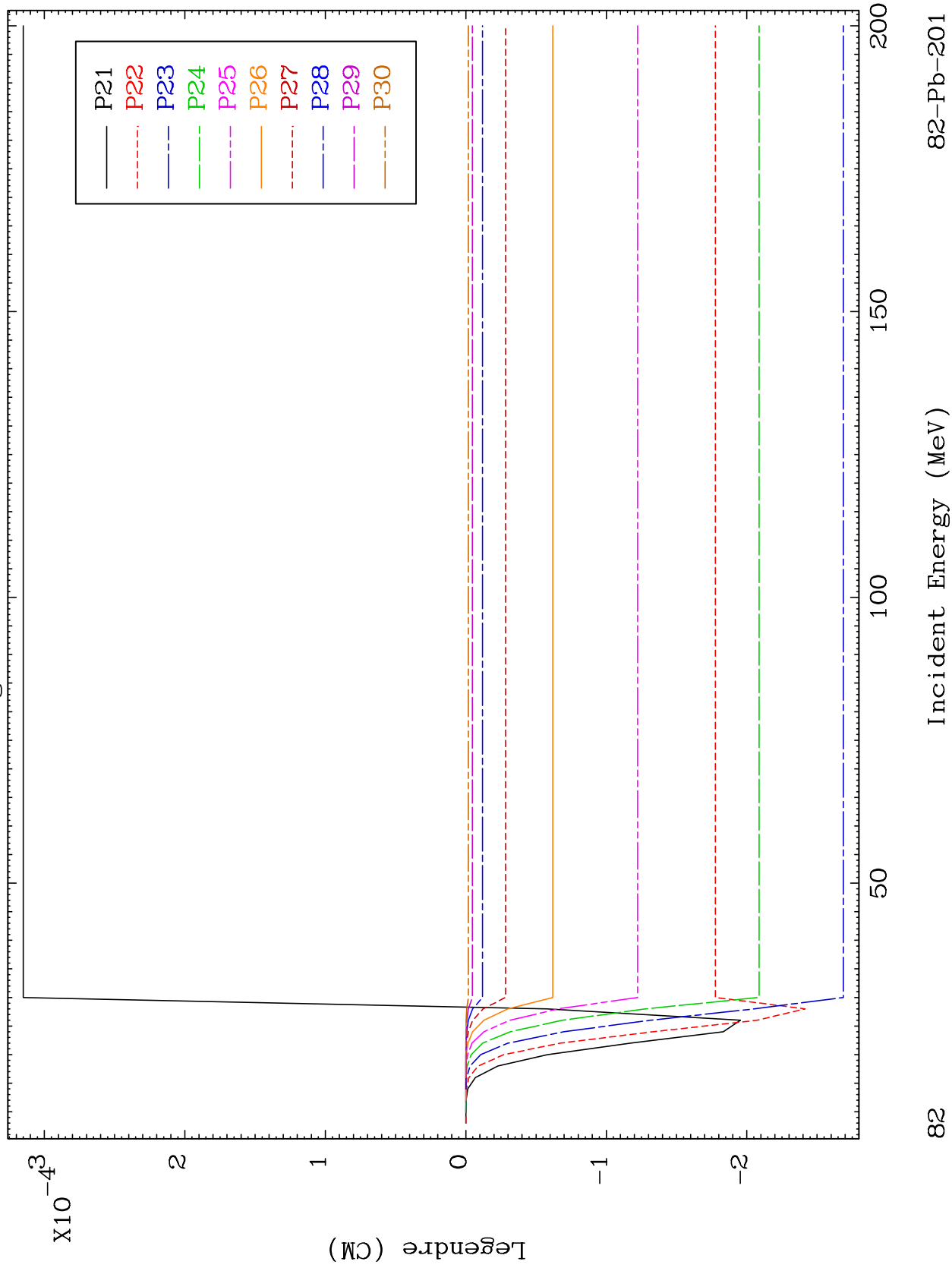
Incident Energy (MeV)

82-Pb-201

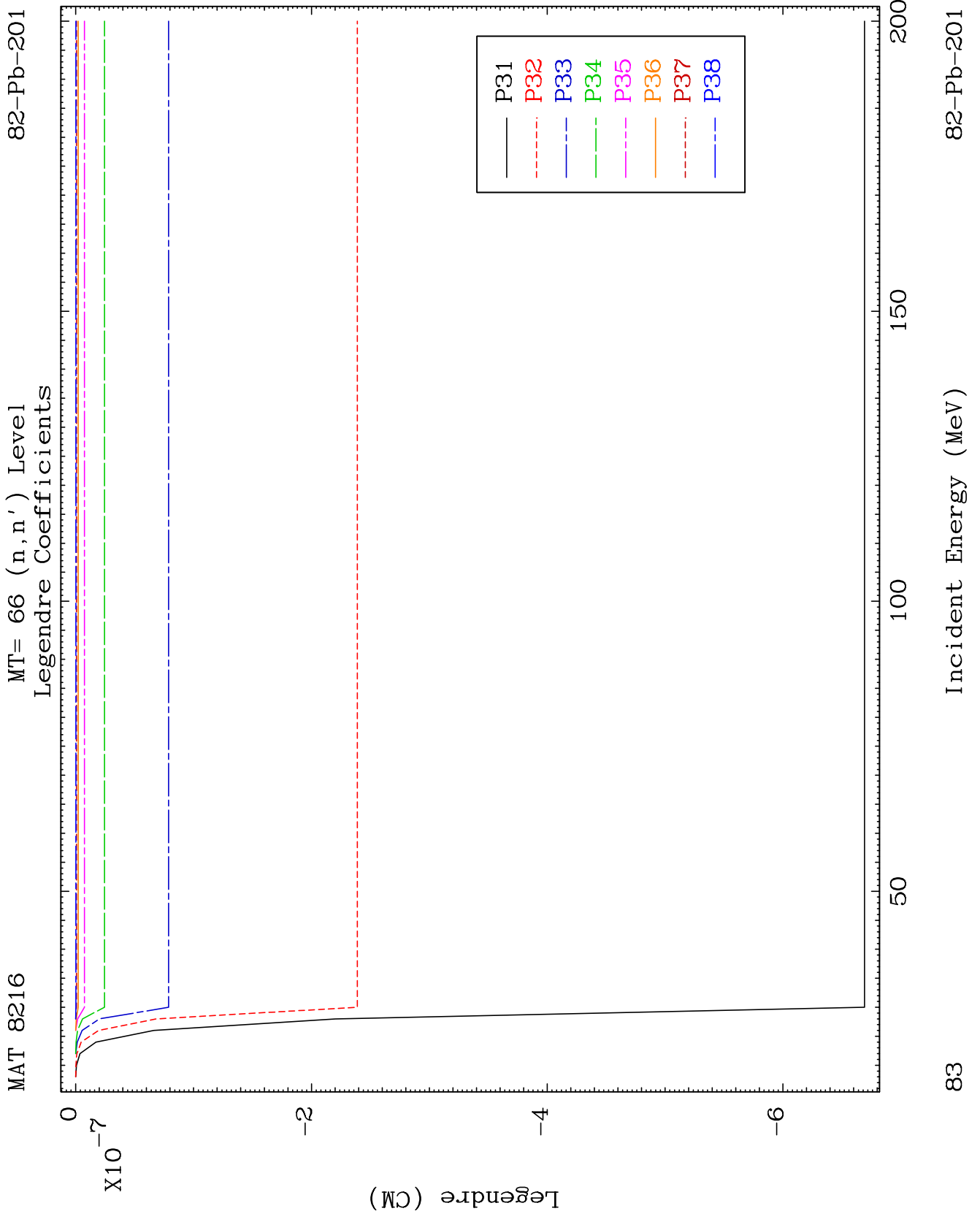
MAT 8216

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

82-Pb-201



82

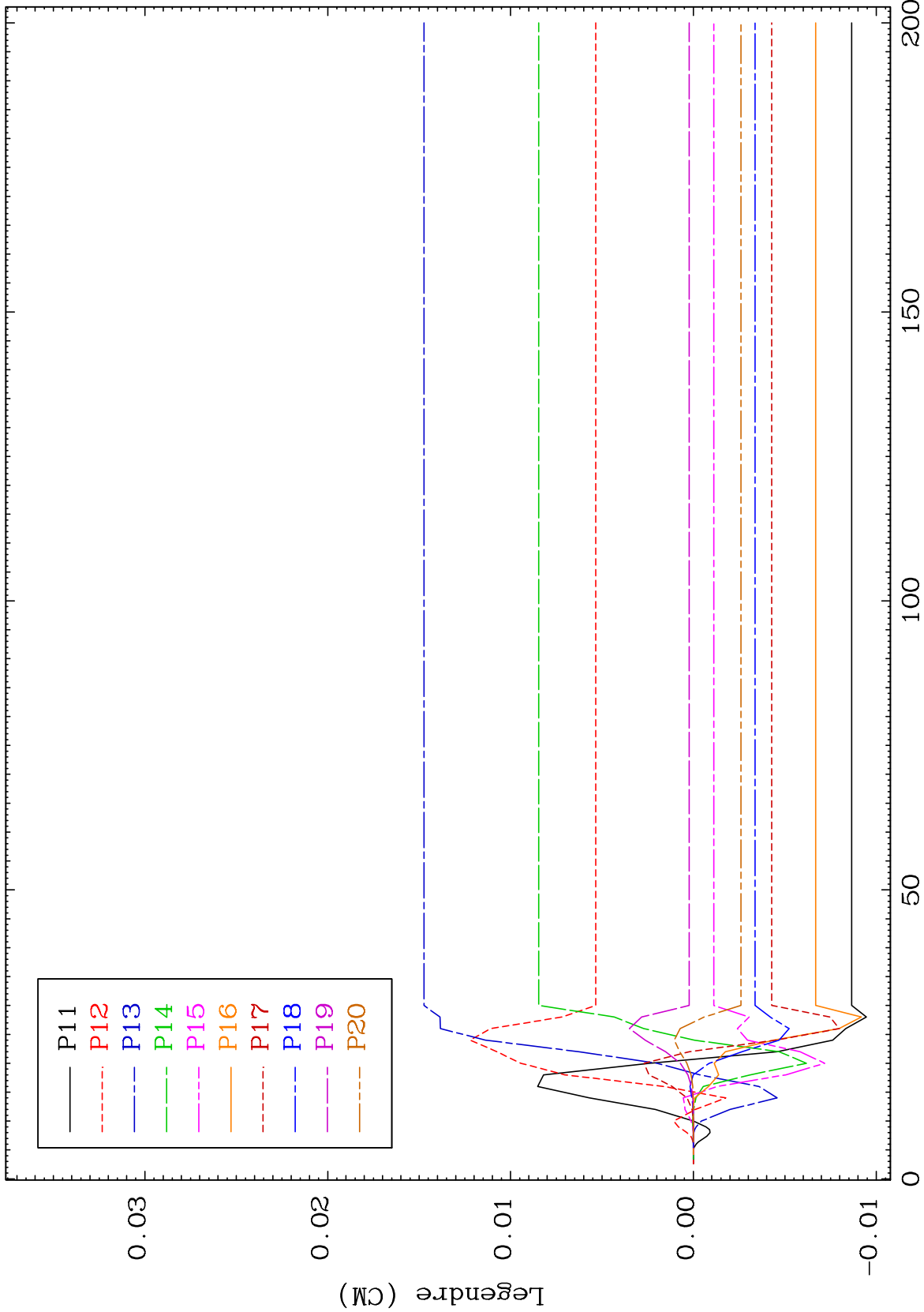




MAT 8216

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

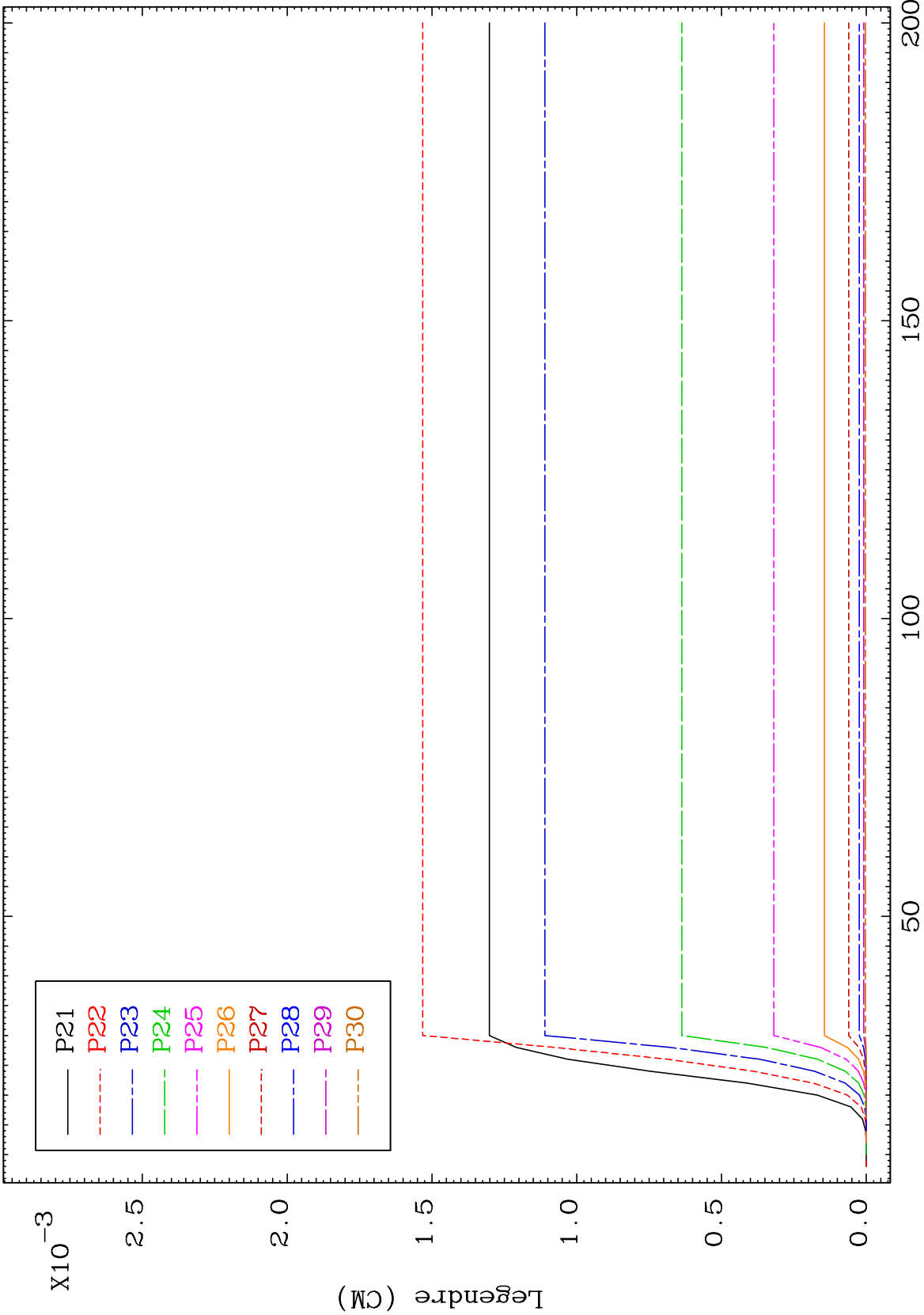
82-Pb-201



85

Incident Energy (MeV)

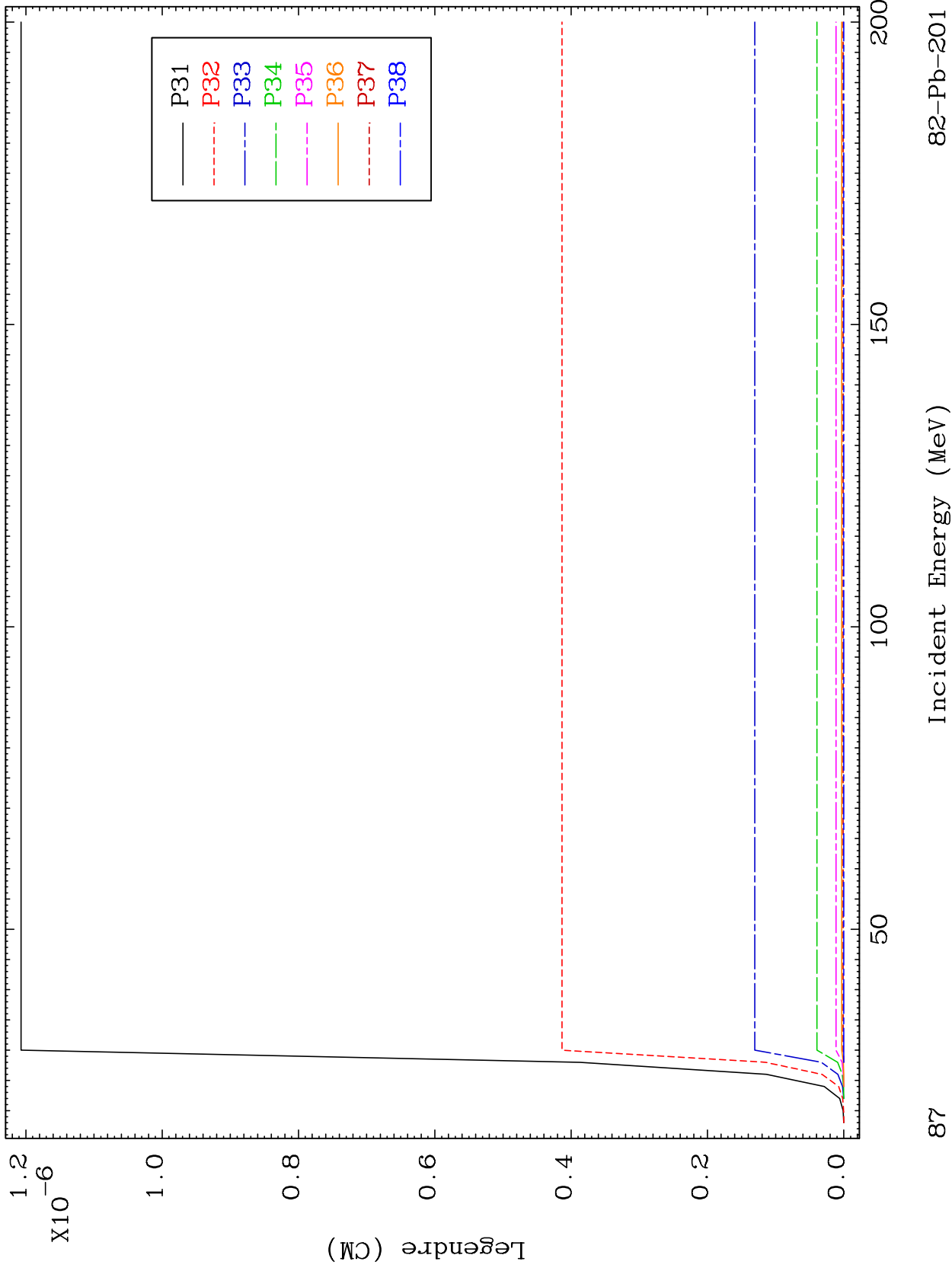
82-Pb-201



MAT 8216

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

82-Pb-201



87

Incident Energy (MeV)

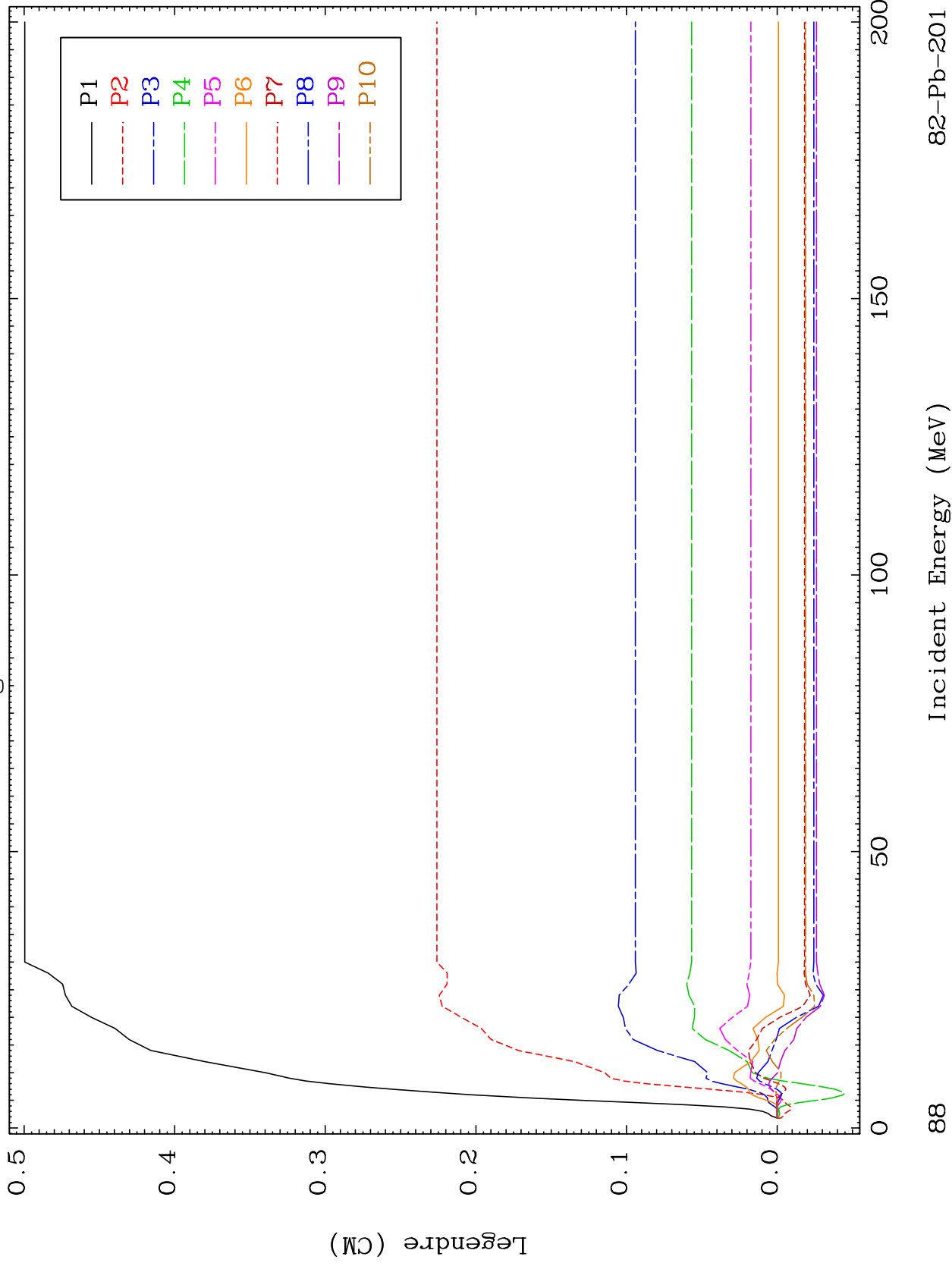
82-Pb-201



MAT 8216

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

82-Pb-201



82-Pb-201

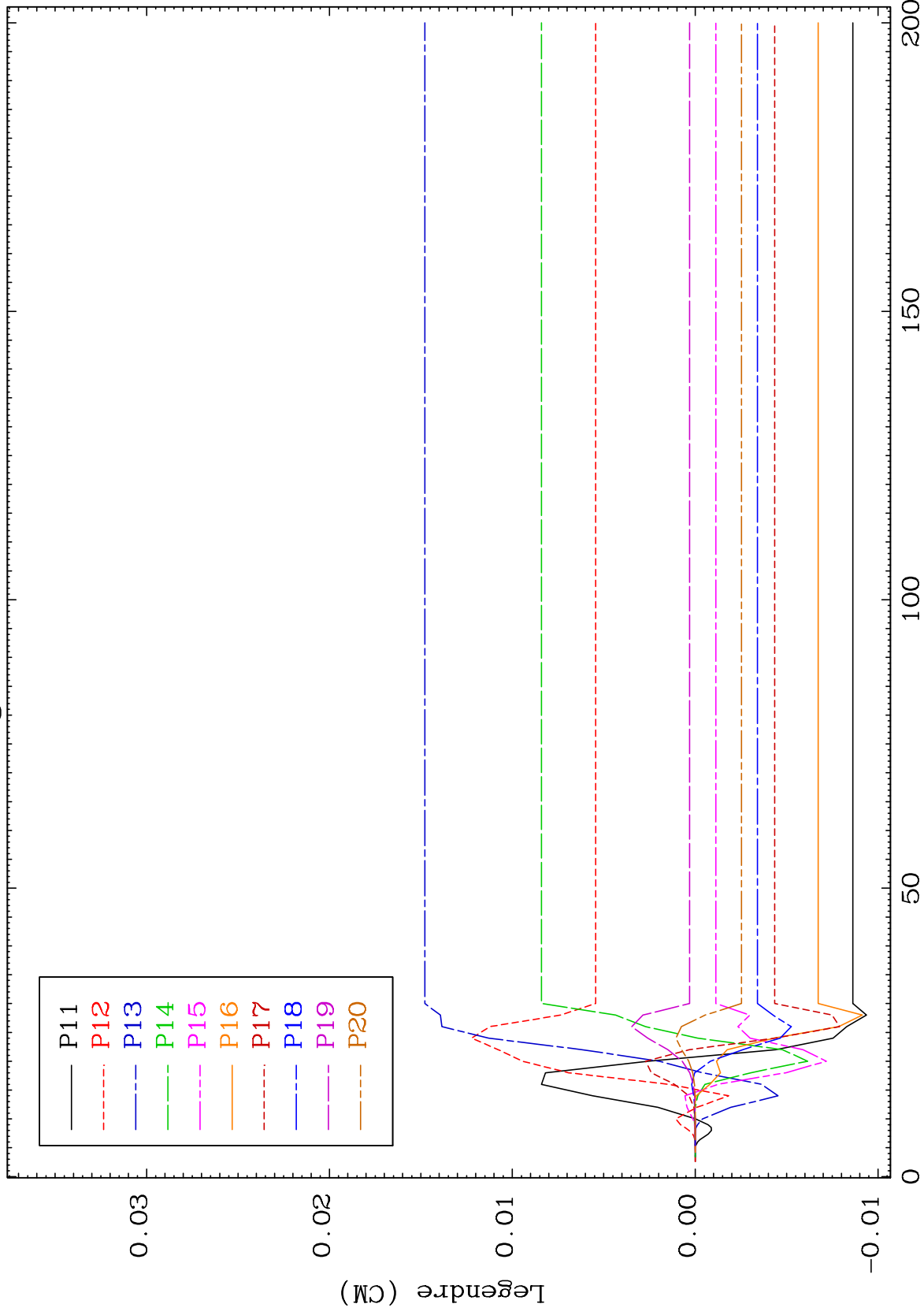
Incident Energy (MeV)

88

MAT 8216

82-Pb-201

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



89

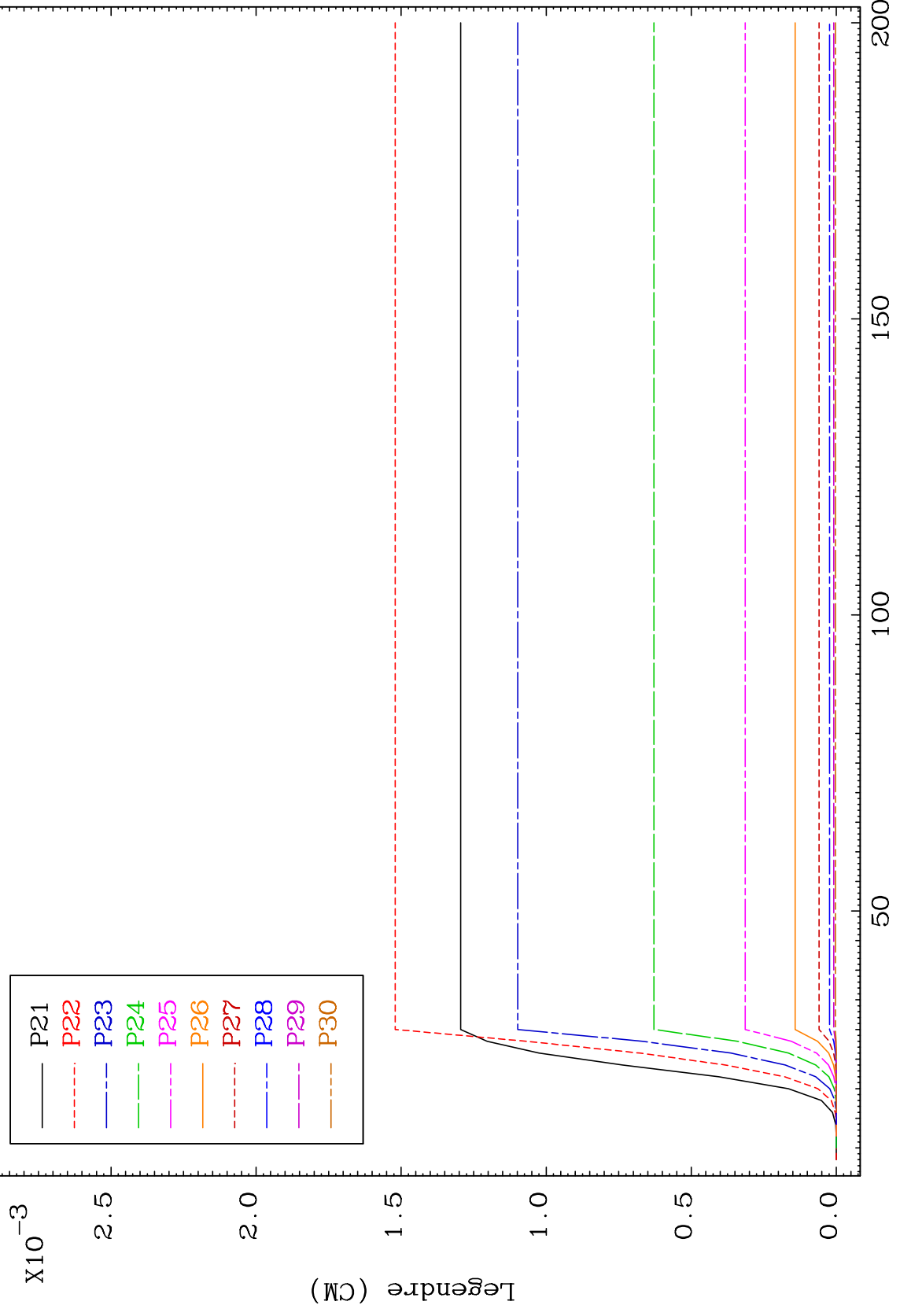
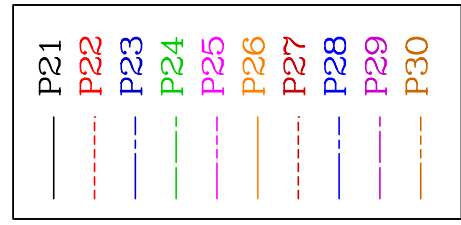
Incident Energy (MeV)

82-Pb-201

MAT 8216

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

82-Pb-201



90

Incident Energy (MeV)

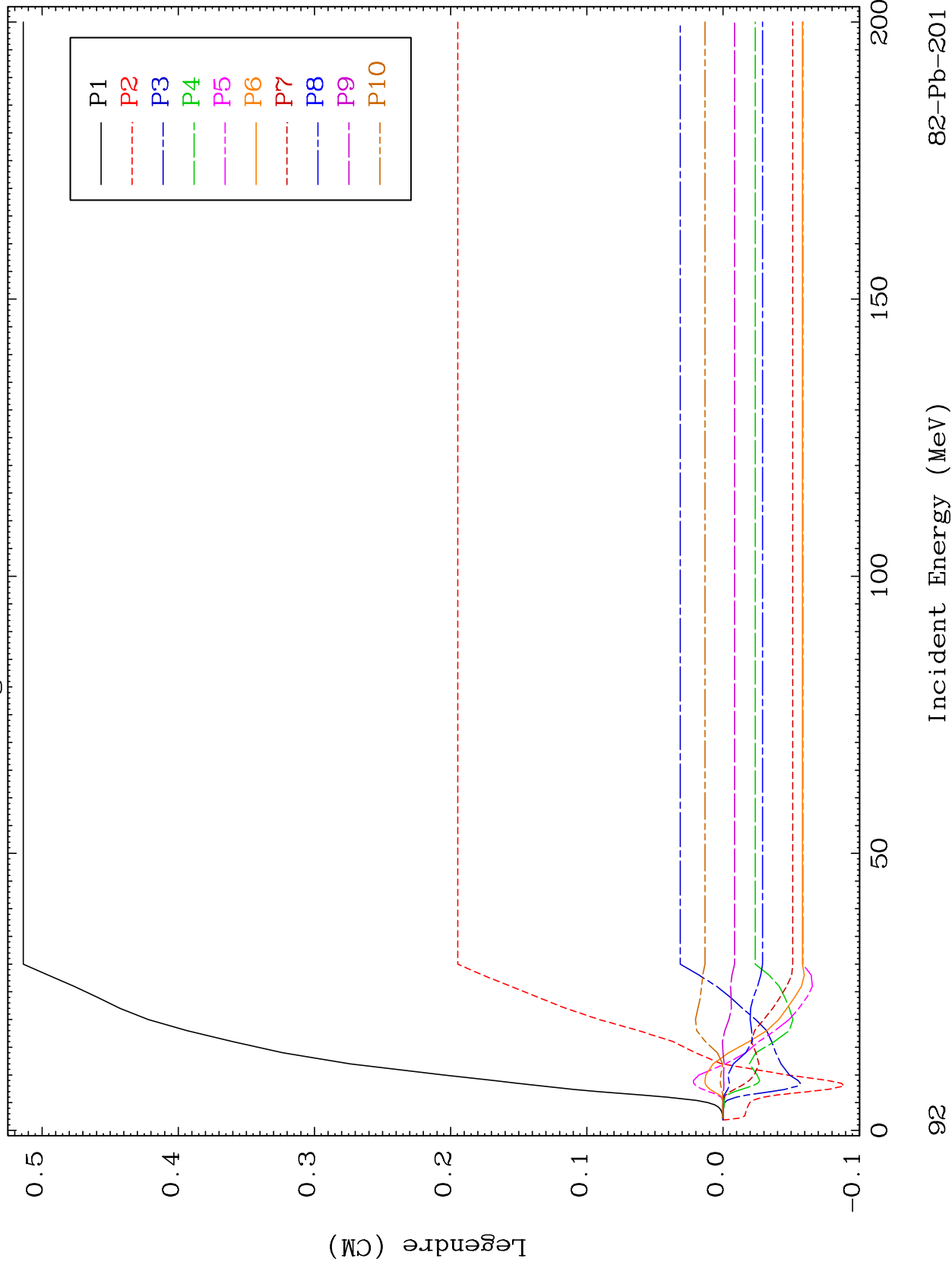
82-Pb-201



MAT 8216

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

82-Pb-201



82-Pb-201

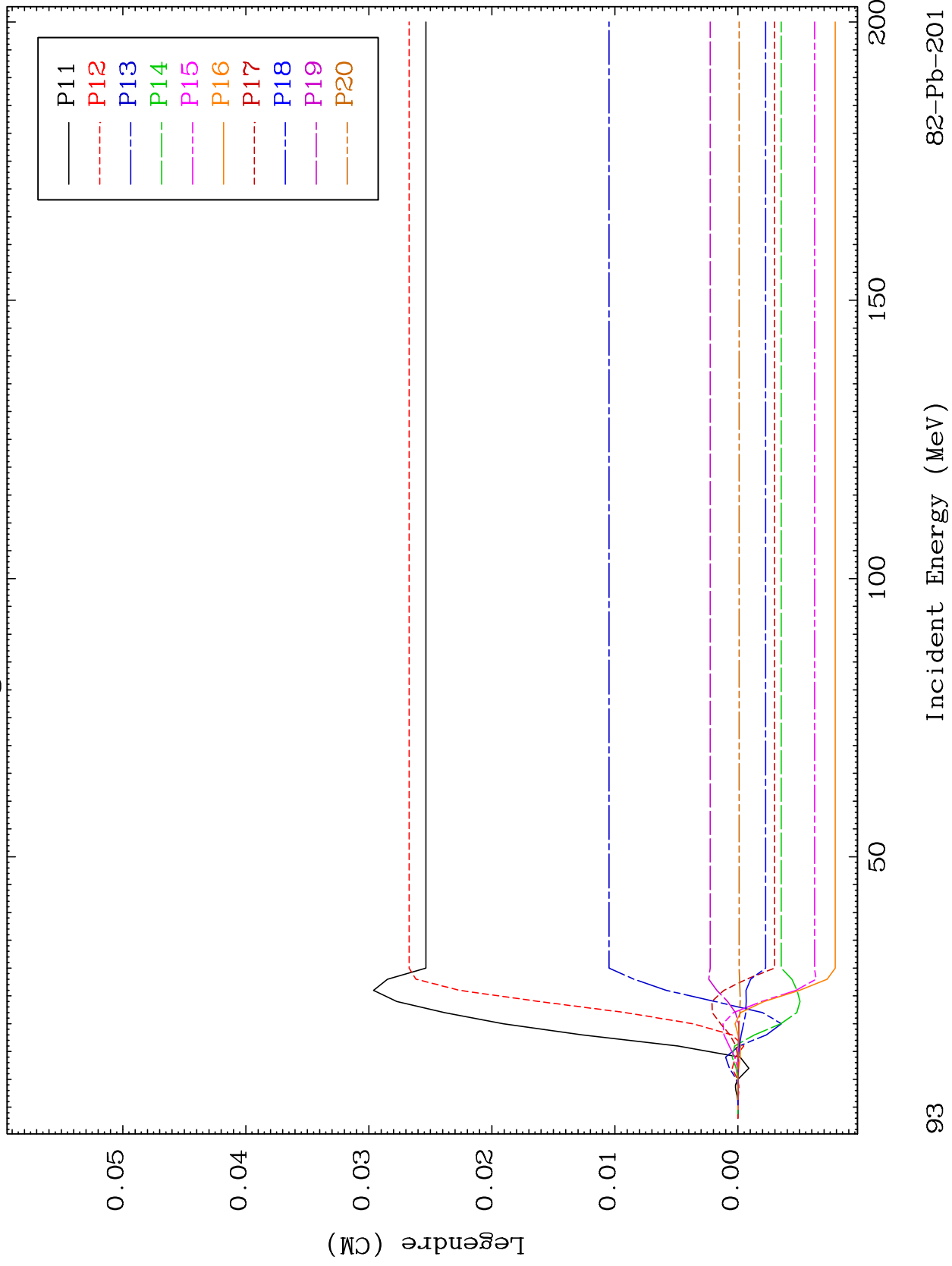
Incident Energy (MeV)

92

MAT 8216

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

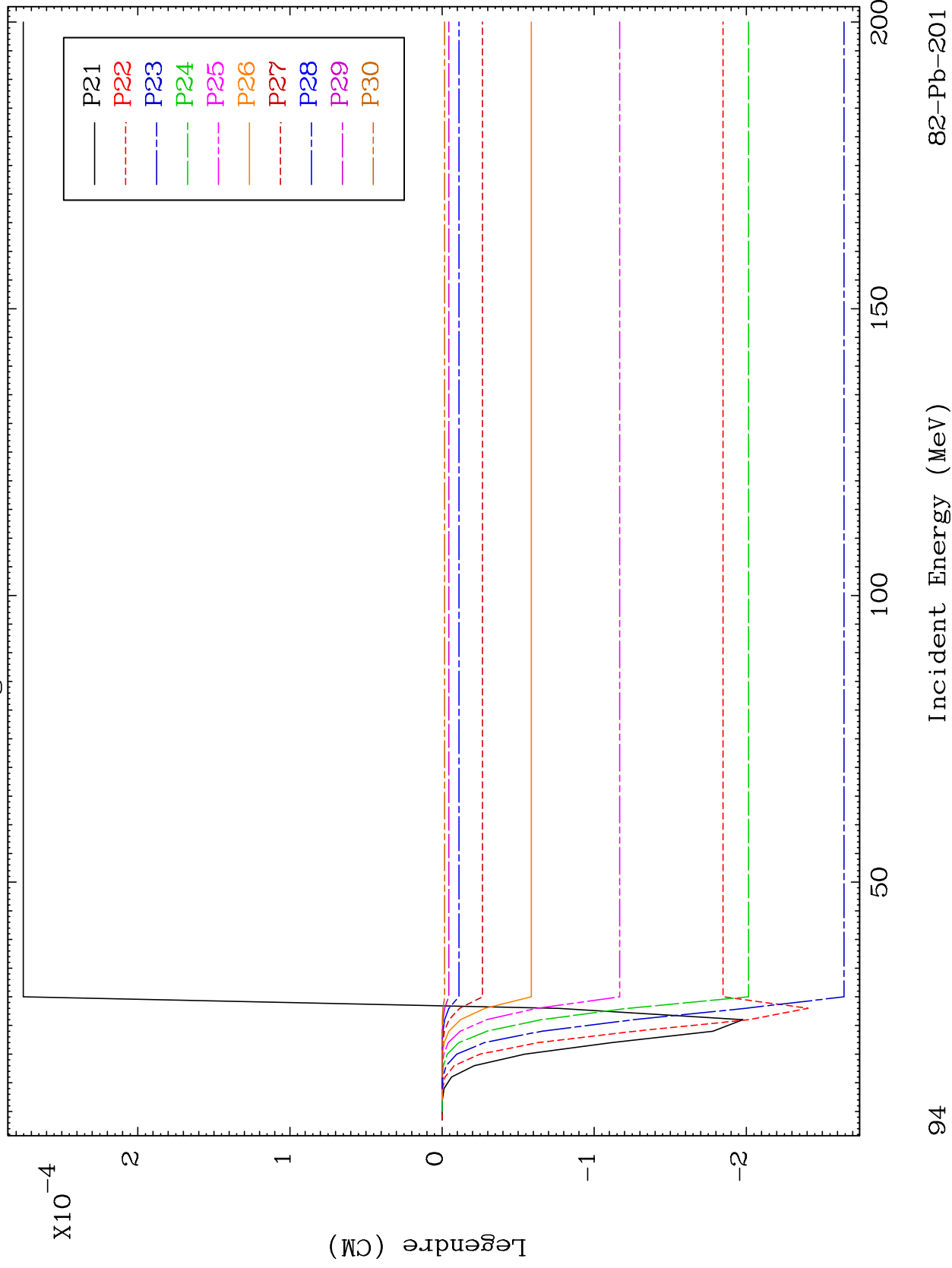
82-Pb-201

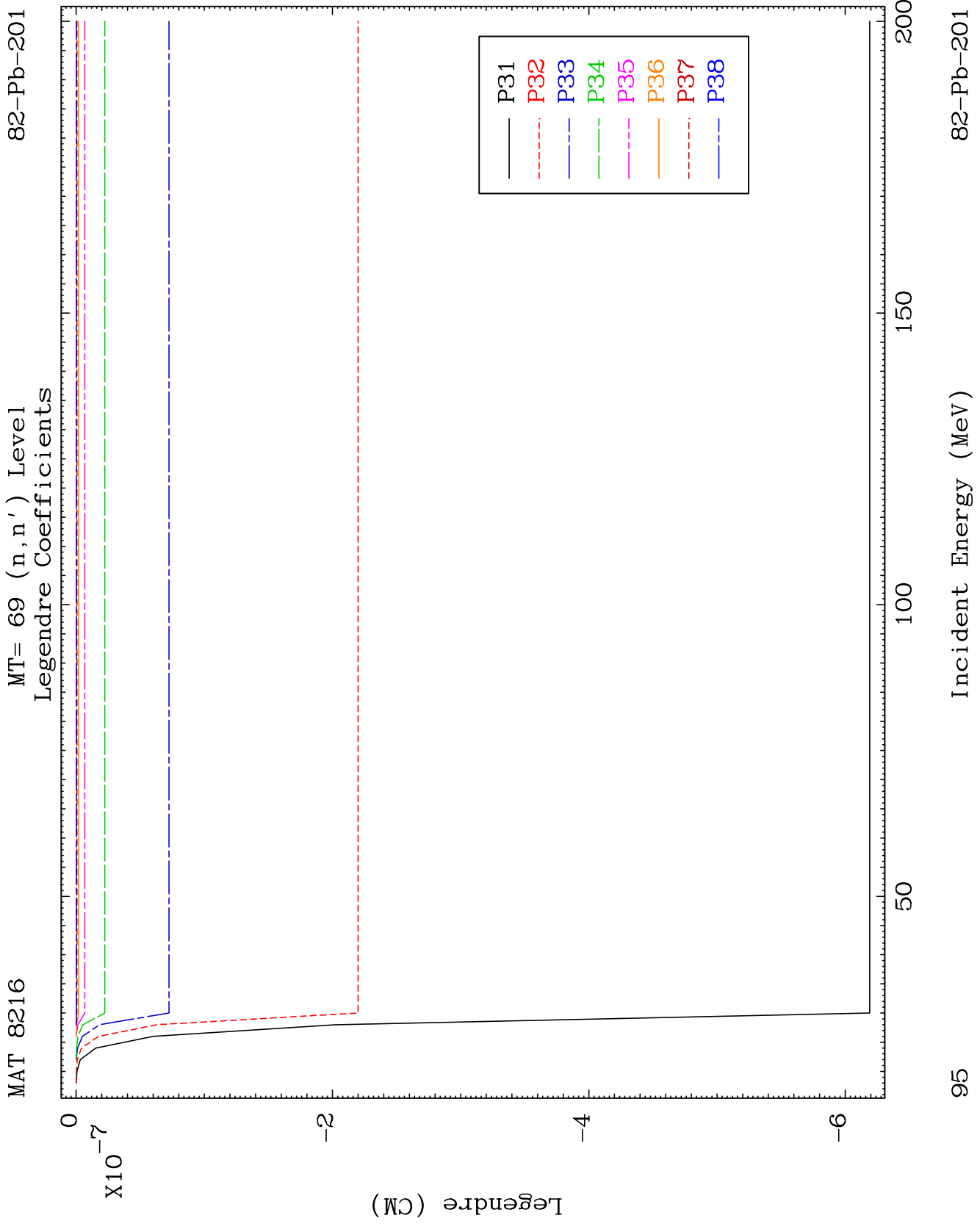


MAT 8216

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

82-Pb-201



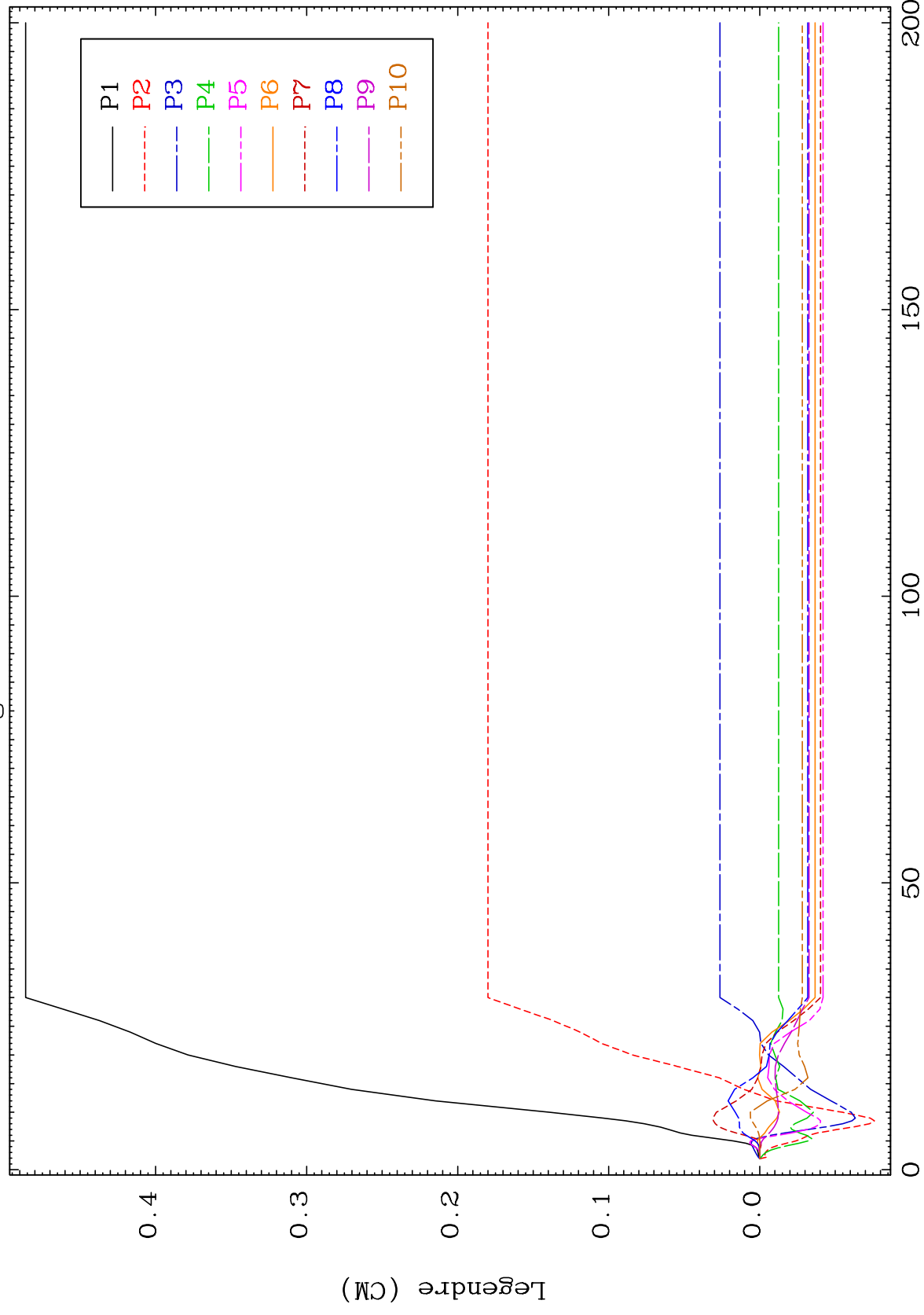




MAT 8216

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

82-Pb-201



96

Incident Energy (MeV)

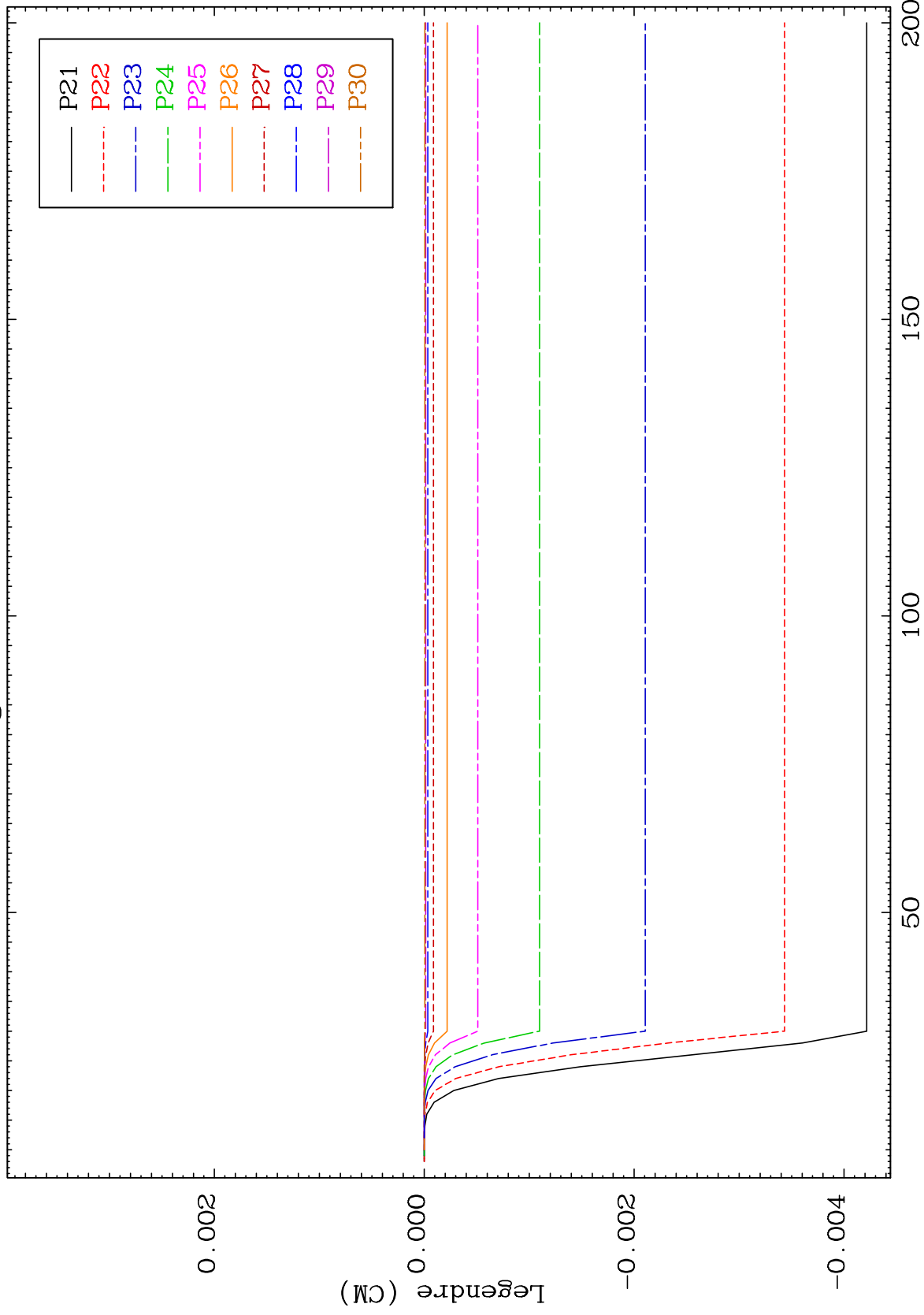
82-Pb-201



MAT 8216

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

82-Pb-201



98

Incident Energy (MeV)

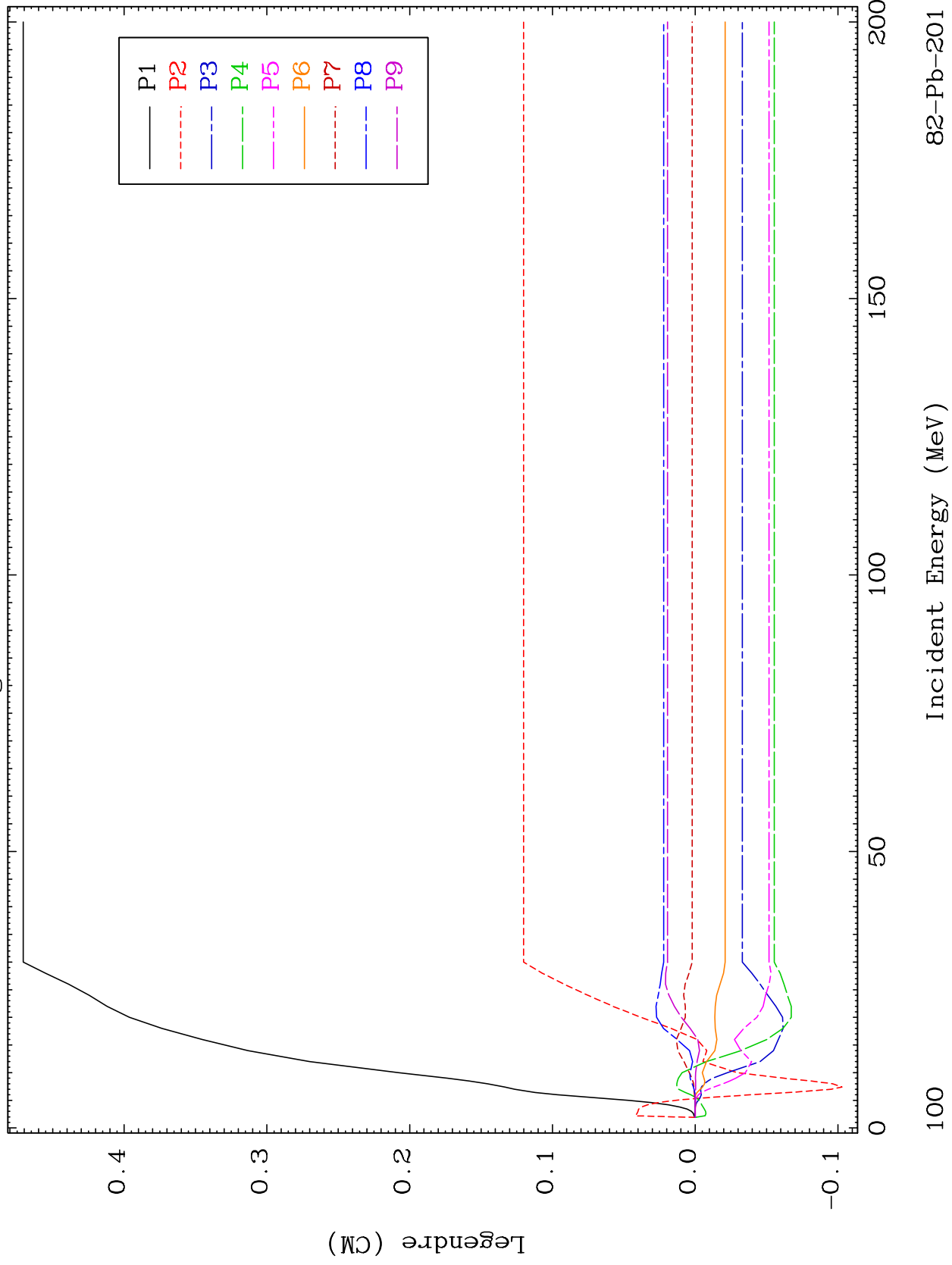
82-Pb-201



MAT 8216

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

82-Pb-201

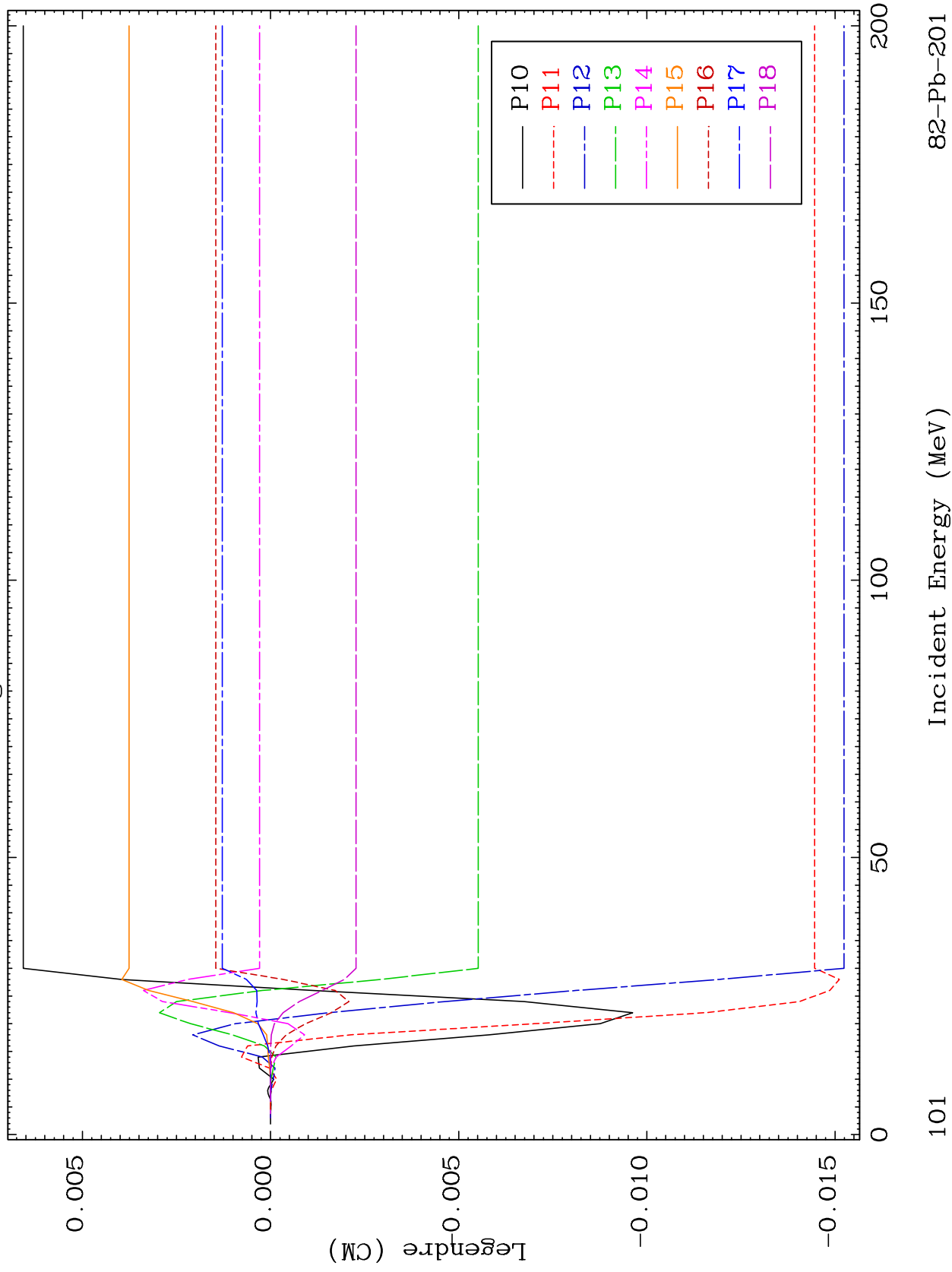


82-Pb-201

MAT 8216

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

82-Pb-201



82-Pb-201

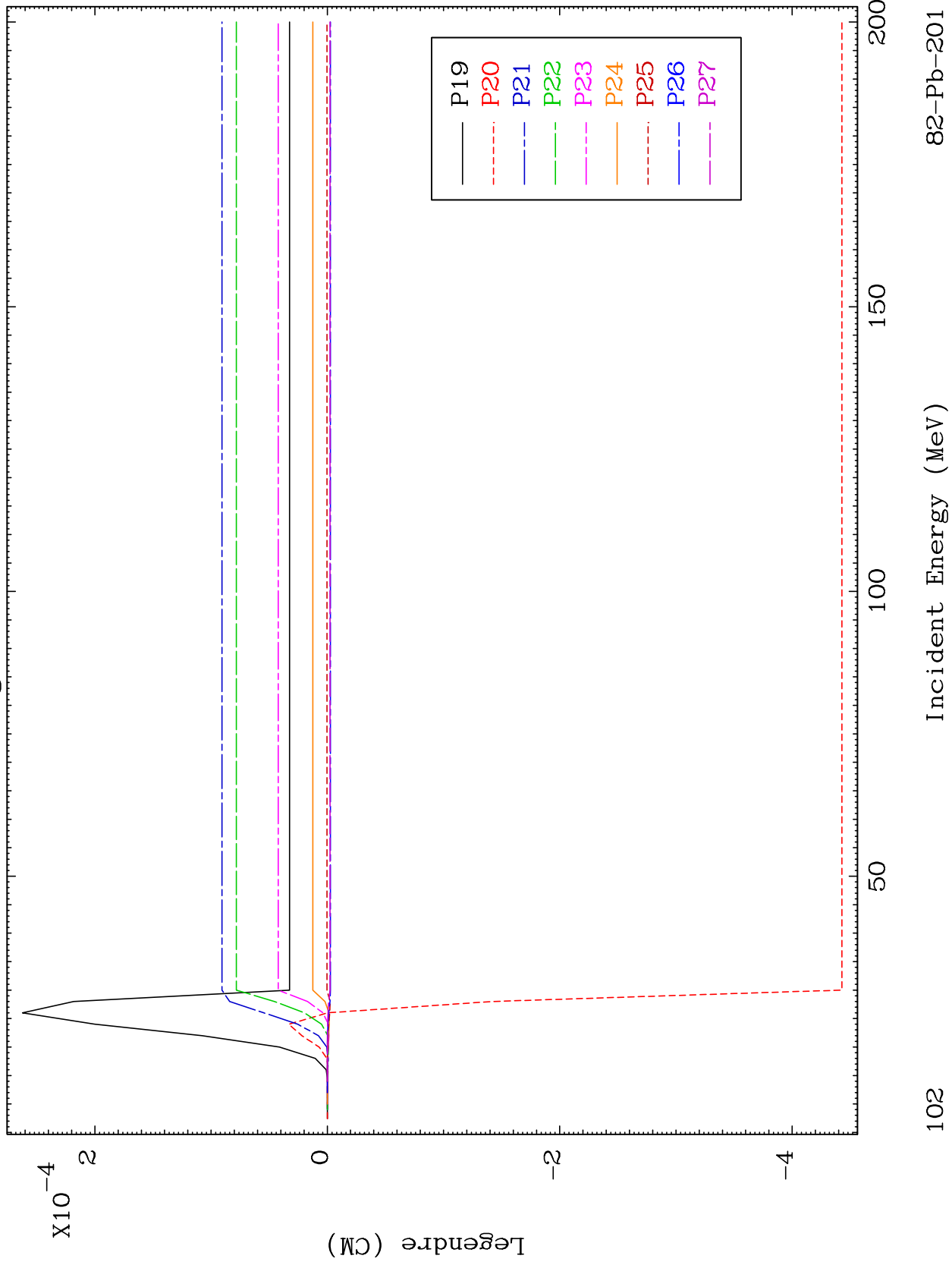
Incident Energy (MeV)

101

MAT 8216

82-Pb-201

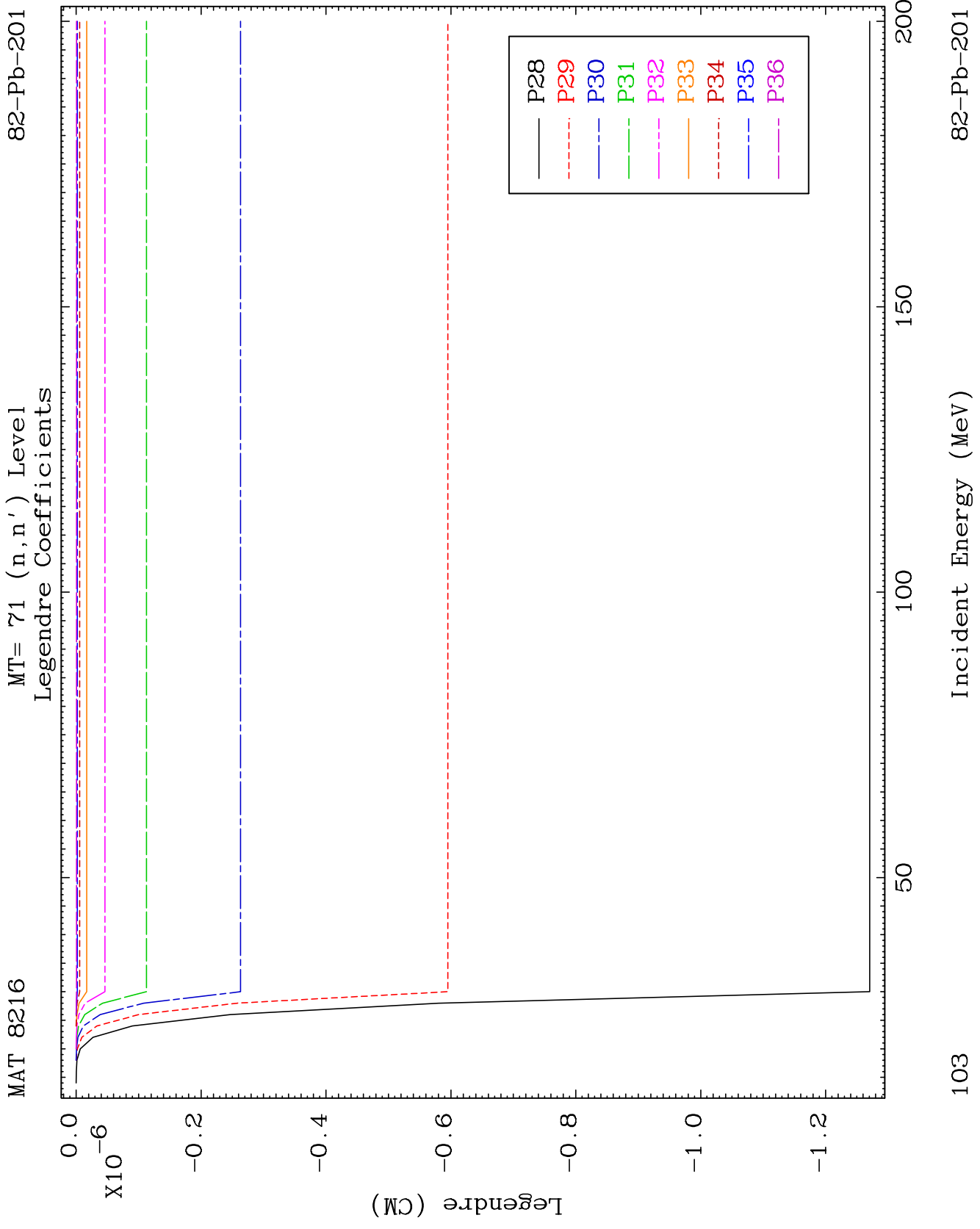
MT= 71 (n,n') Level  
Legendre Coefficients



102

Incident Energy (MeV)

82-Pb-201

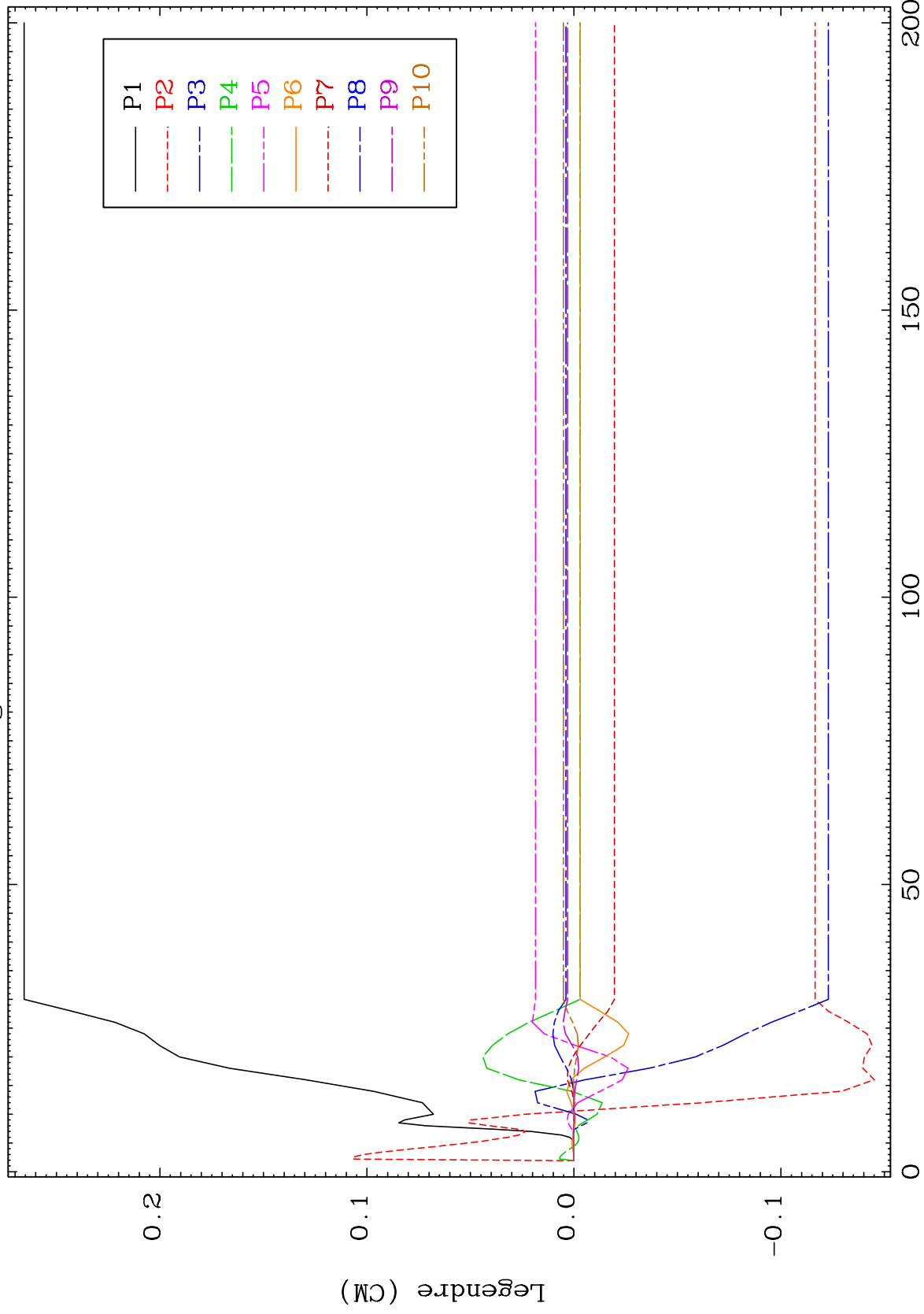




MAT 8216

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

82-Pb-201



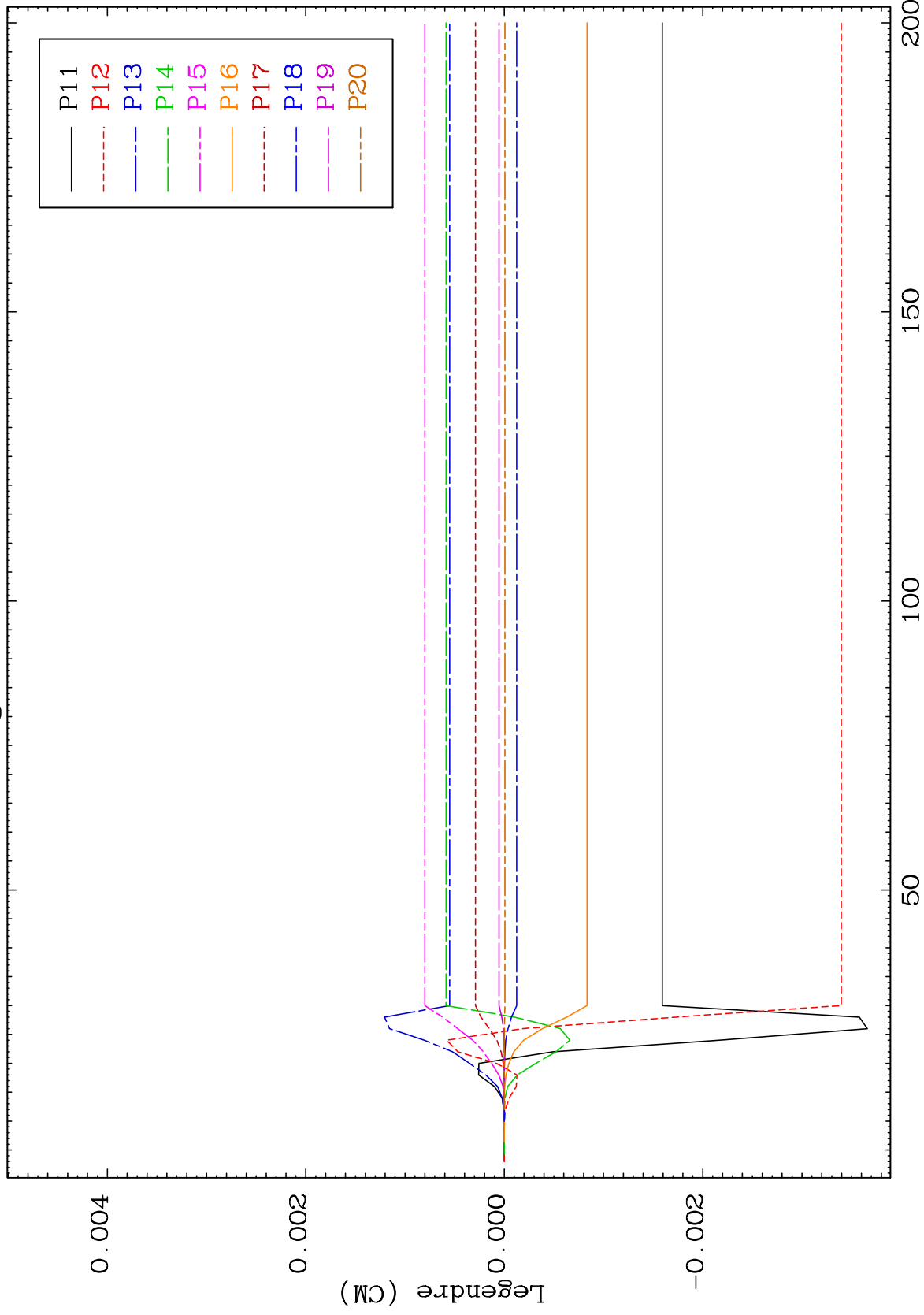
104

82-Pb-201

MAT 8216

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

82-Pb-201



105

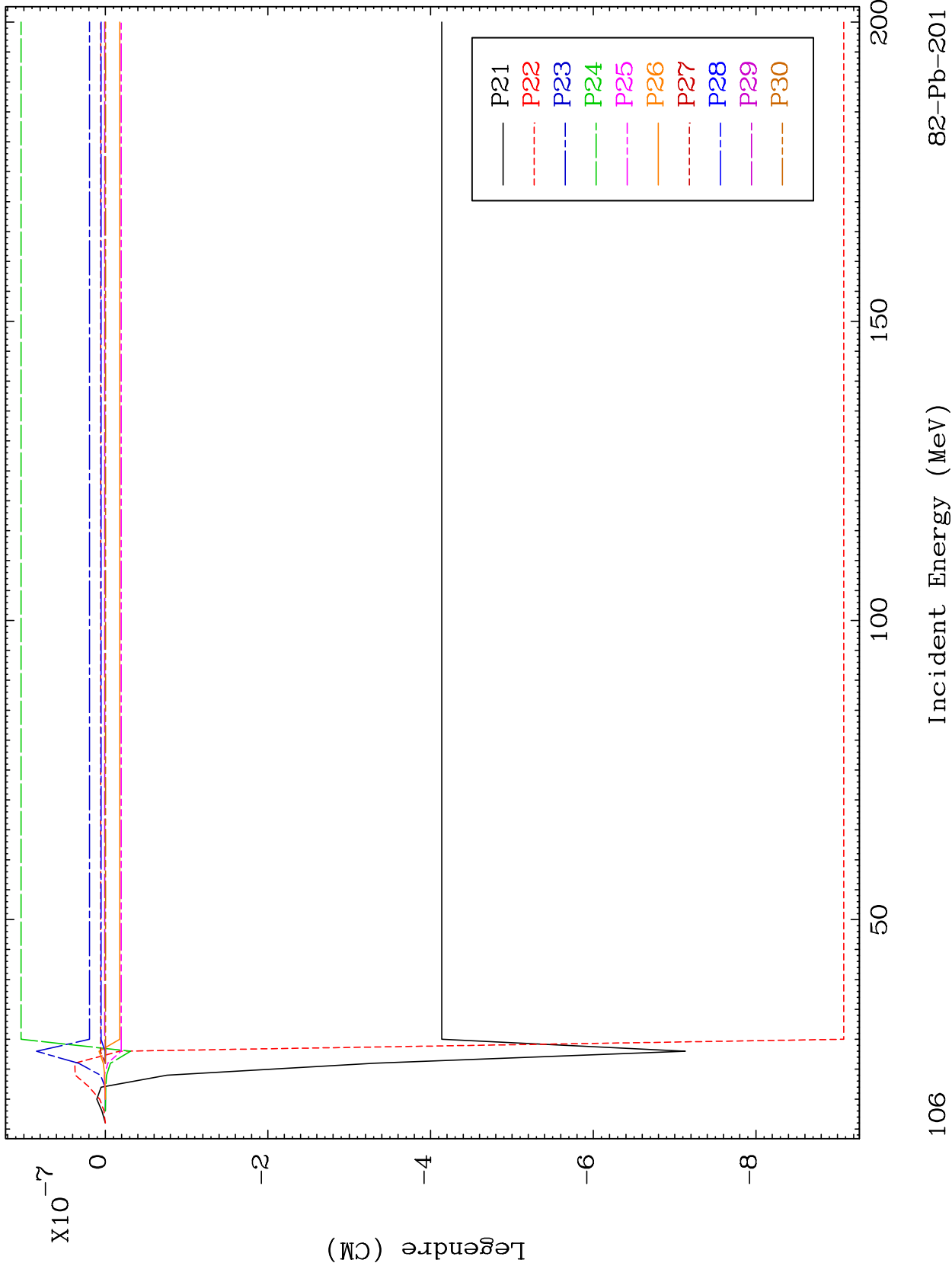
Incident Energy (MeV)

82-Pb-201

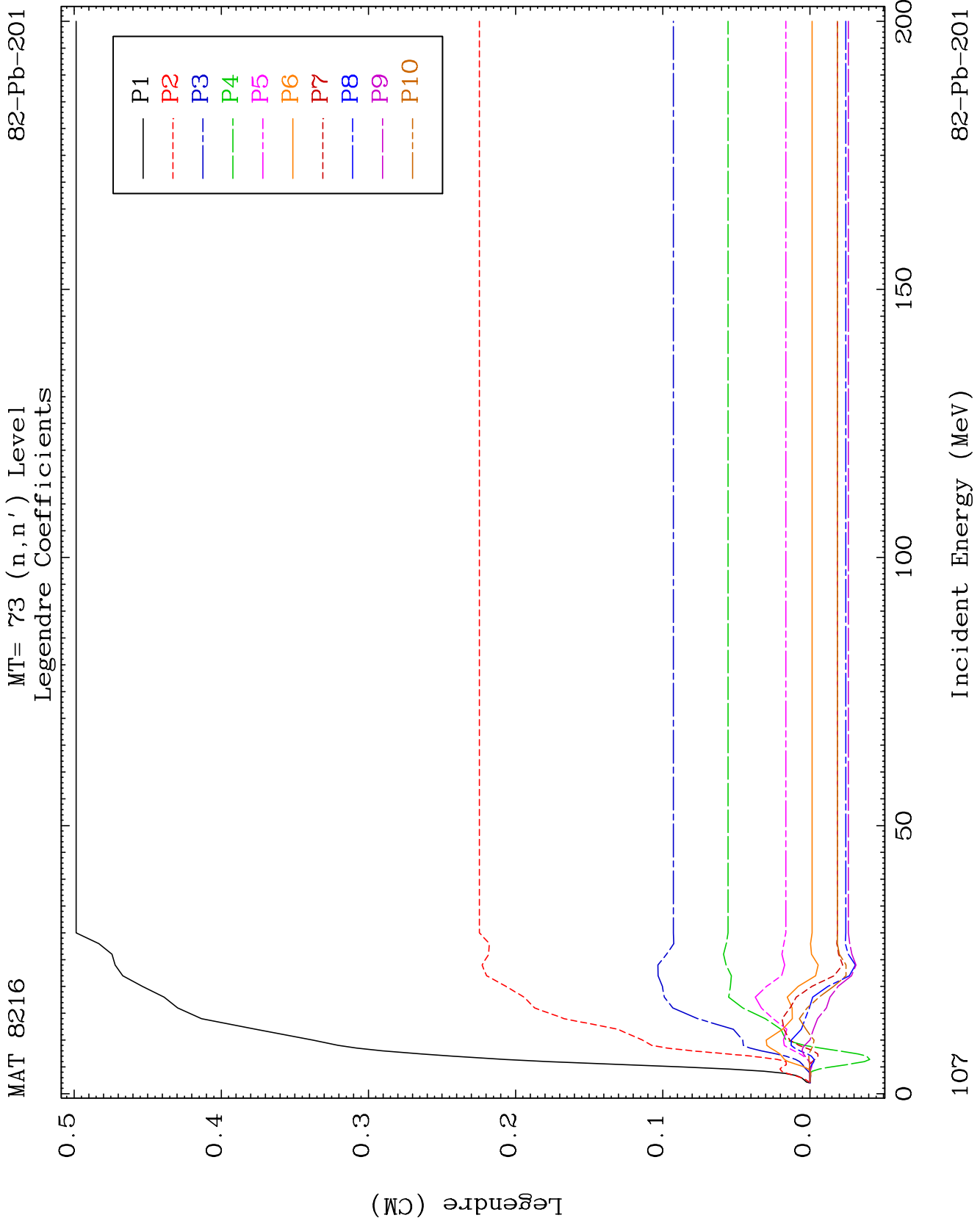
MAT 8216

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

82-Pb-201



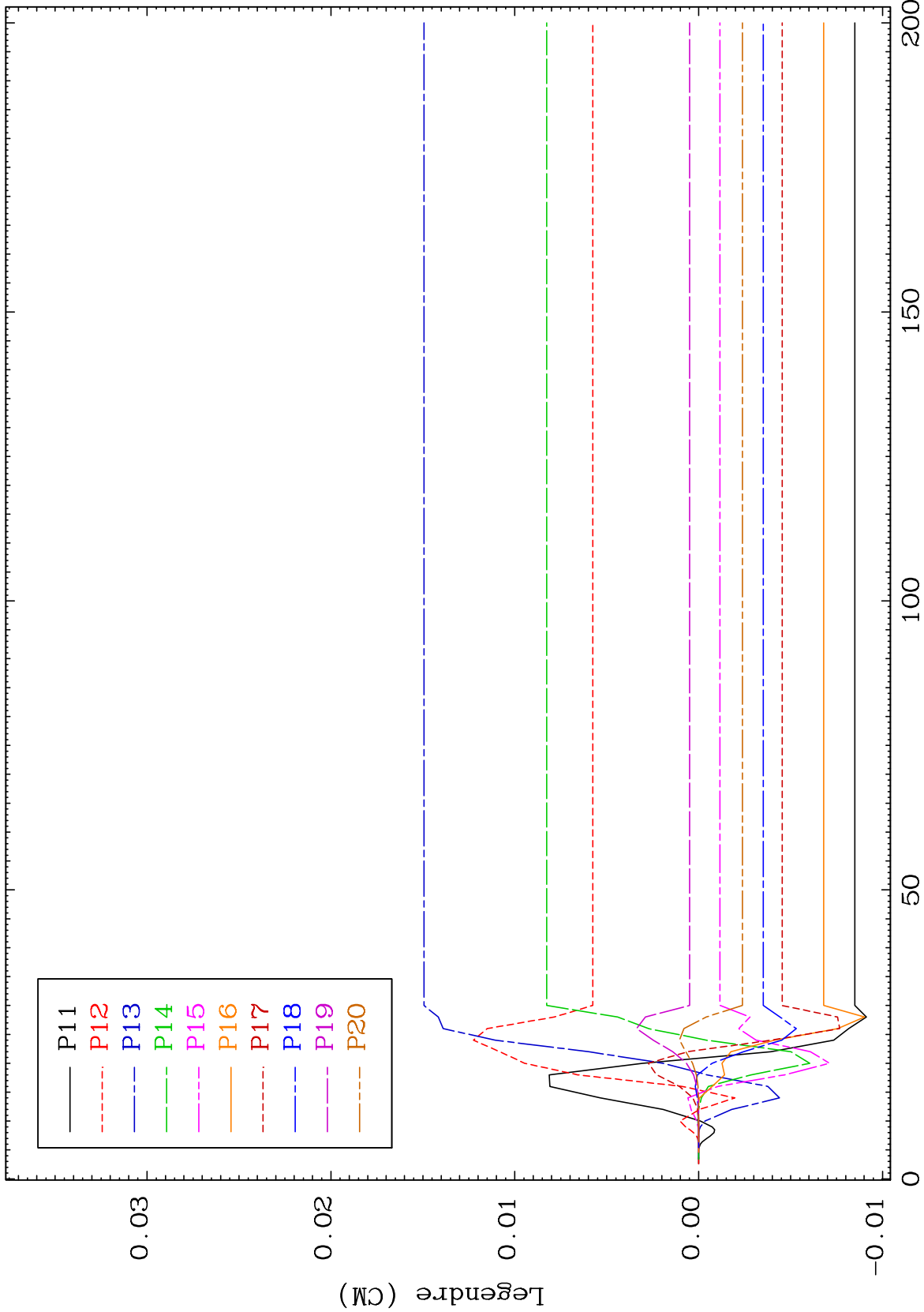
106



MAT 8216

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

82-Pb-201



108

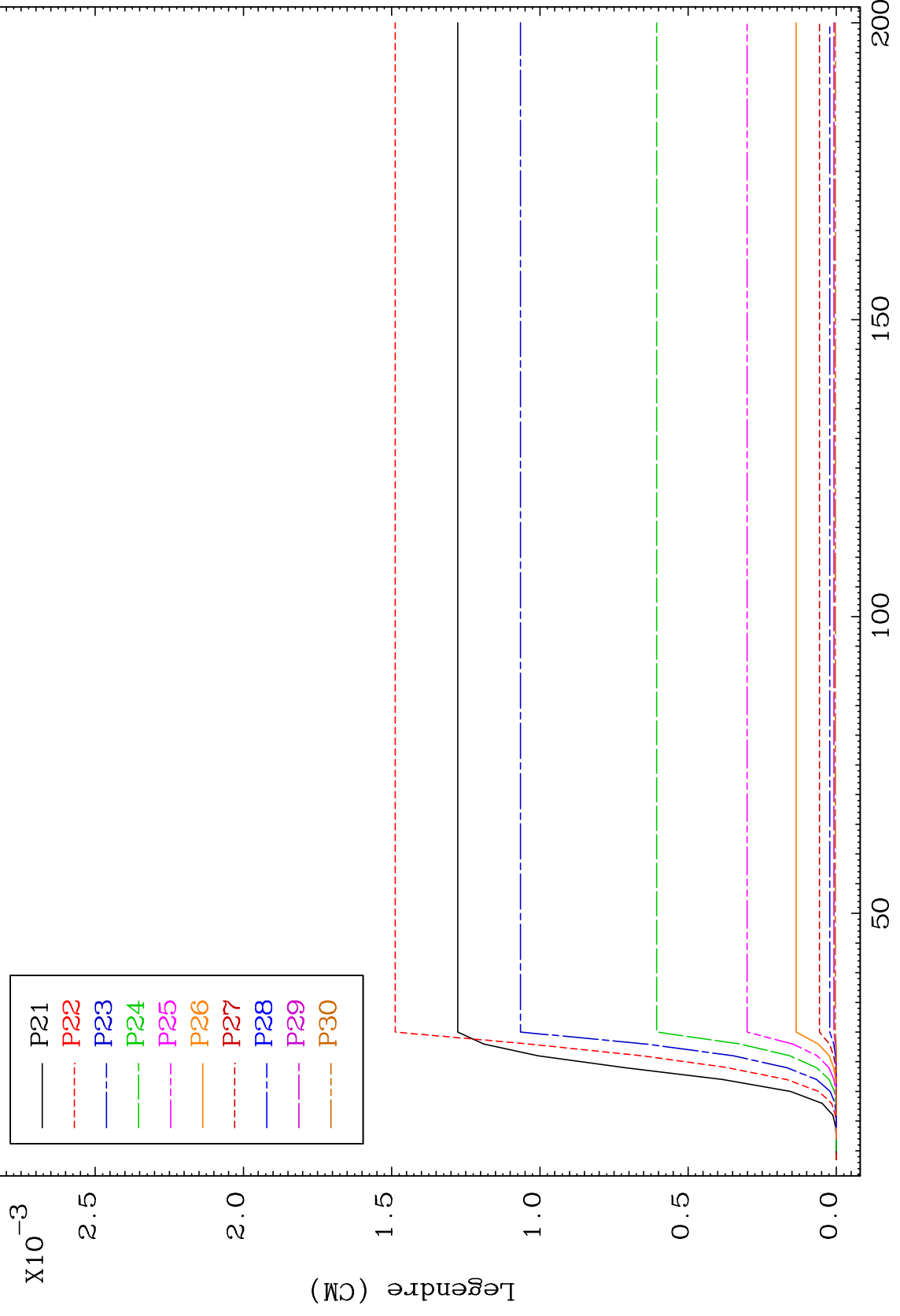
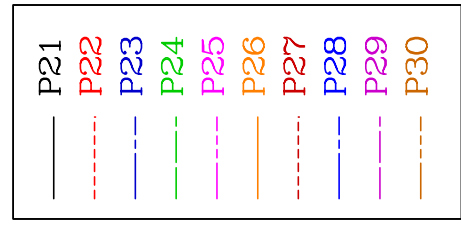
Incident Energy (MeV)

82-Pb-201

MAT 8216

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

82-Pb-201



109

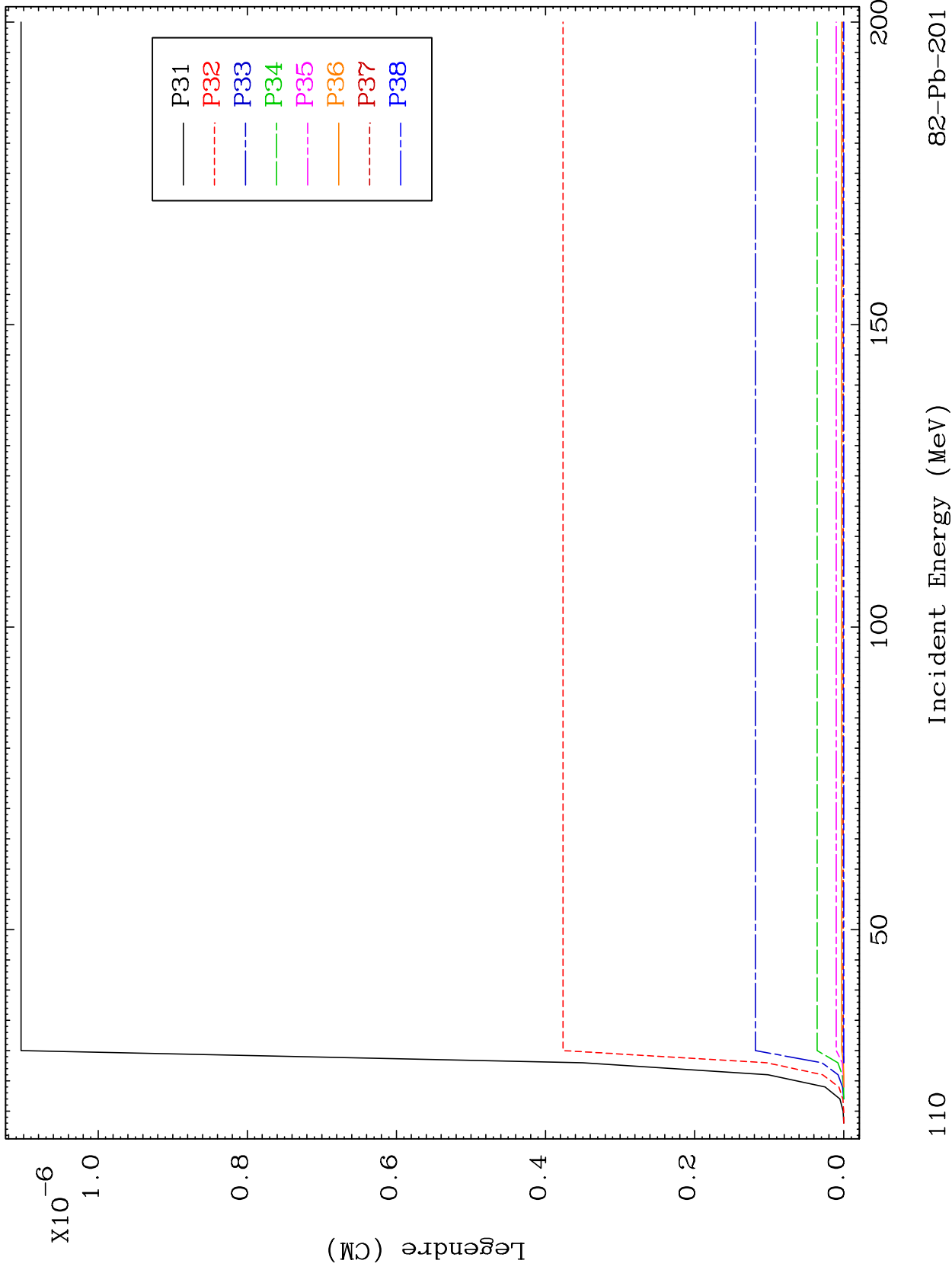
Incident Energy (MeV)

82-Pb-201

MAT 8216

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

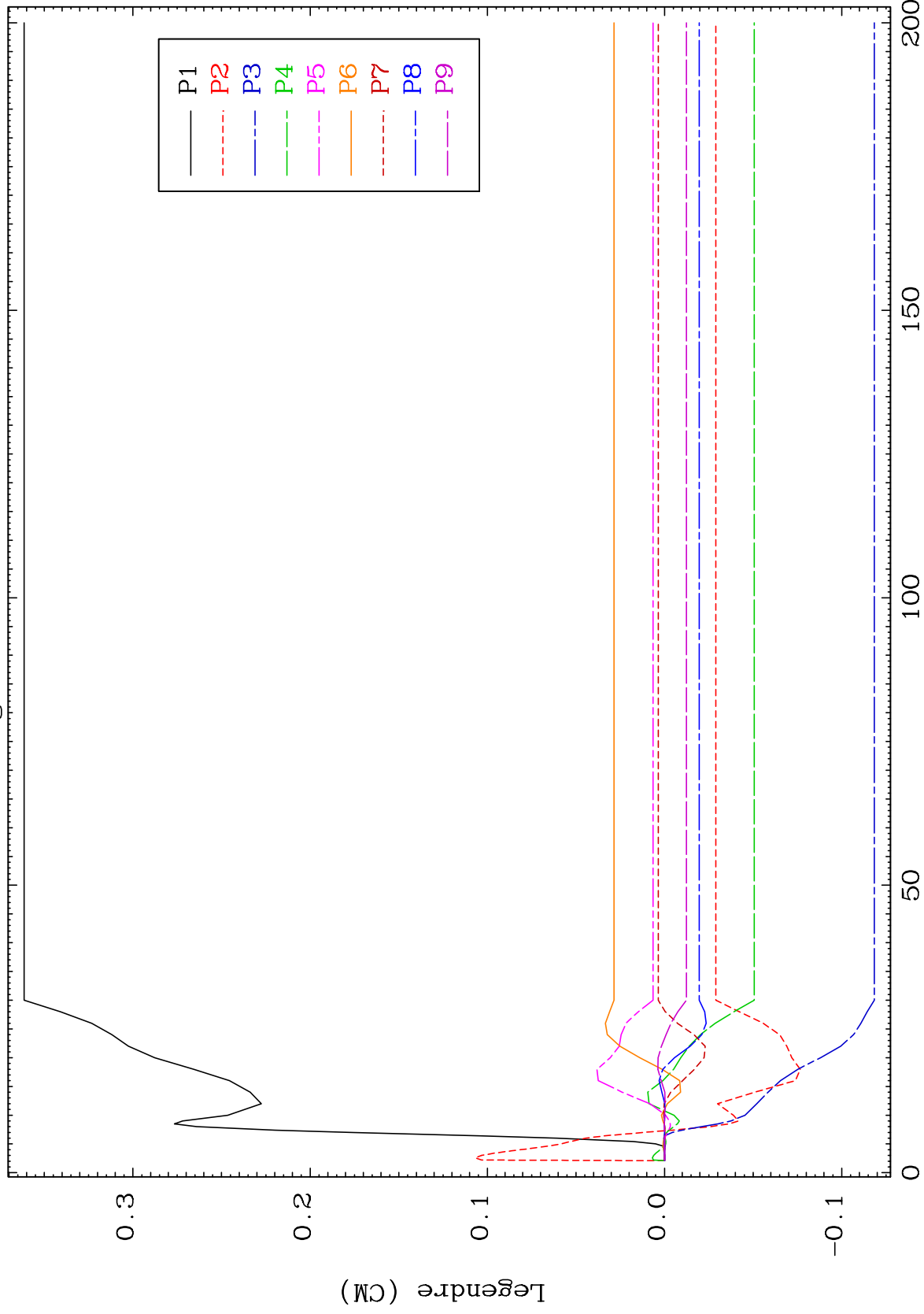
82-Pb-201



MAT 8216

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

82-Pb-201

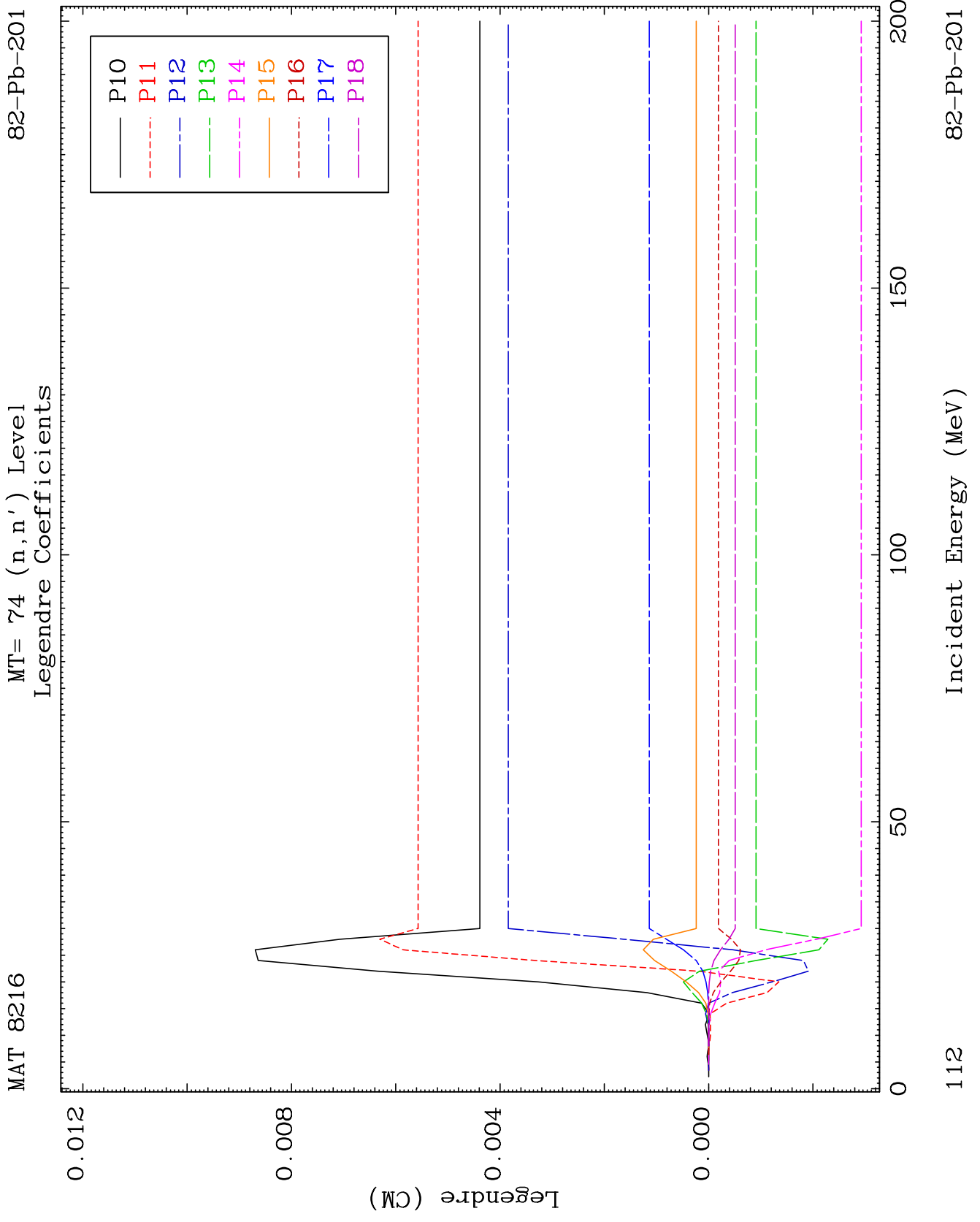


111

Incident Energy (MeV)

82-Pb-201

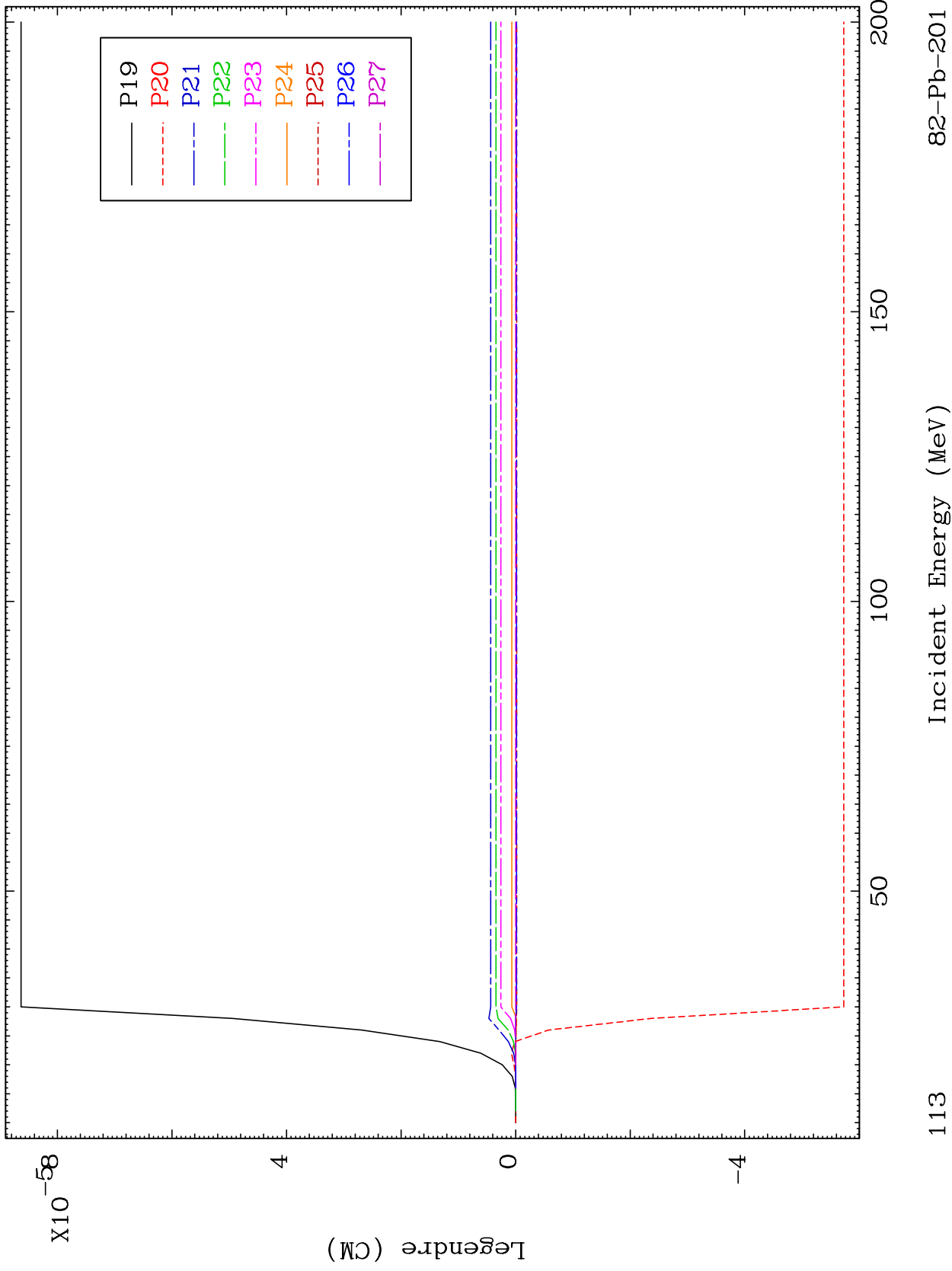




MAT 8216

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

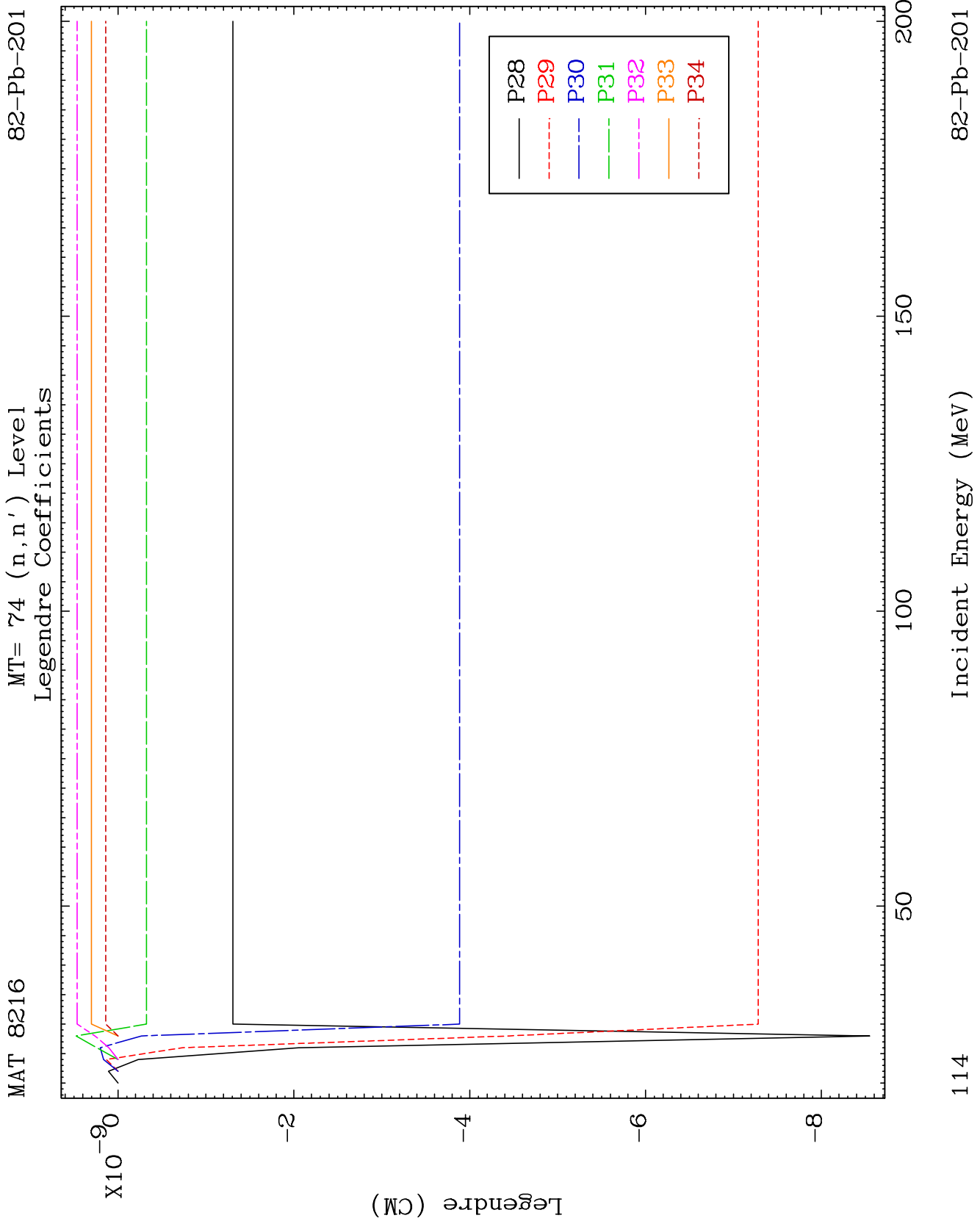
82-Pb-201



113

Incident Energy (MeV)

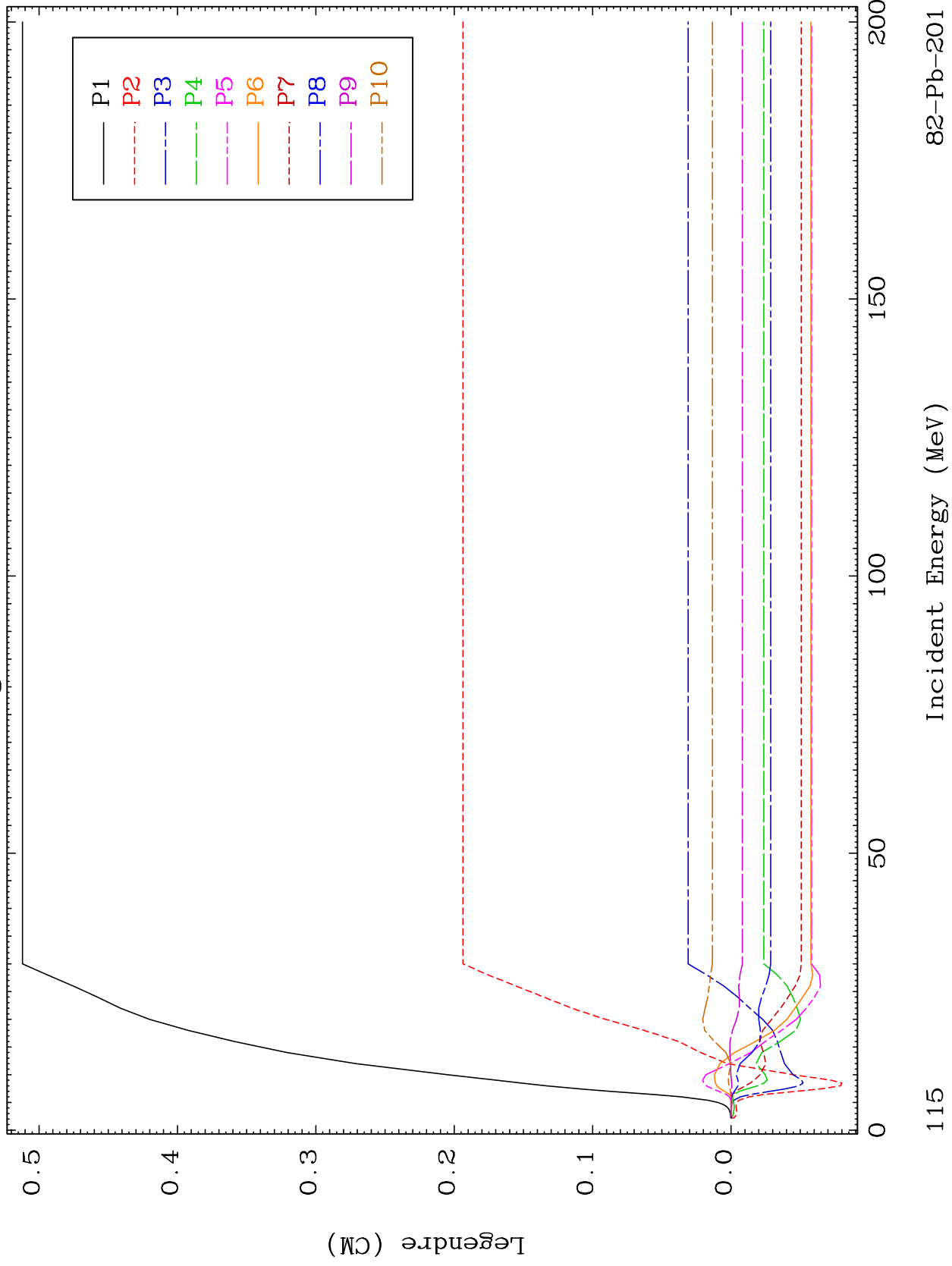
82-Pb-201



MAT 8216

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

82-Pb-201



82-Pb-201

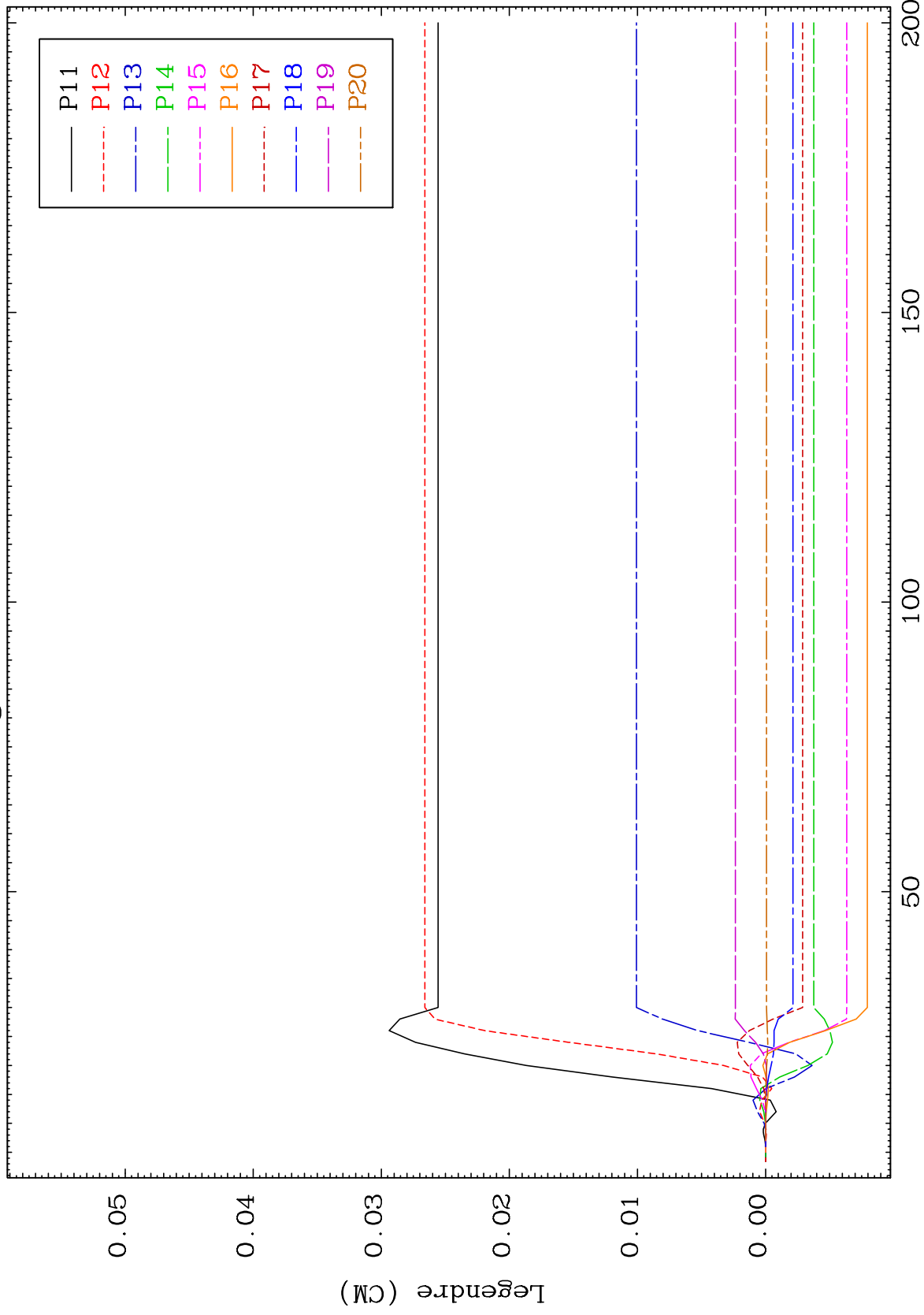
Incident Energy (MeV)

115

MAT 8216

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

82-Pb-201



116

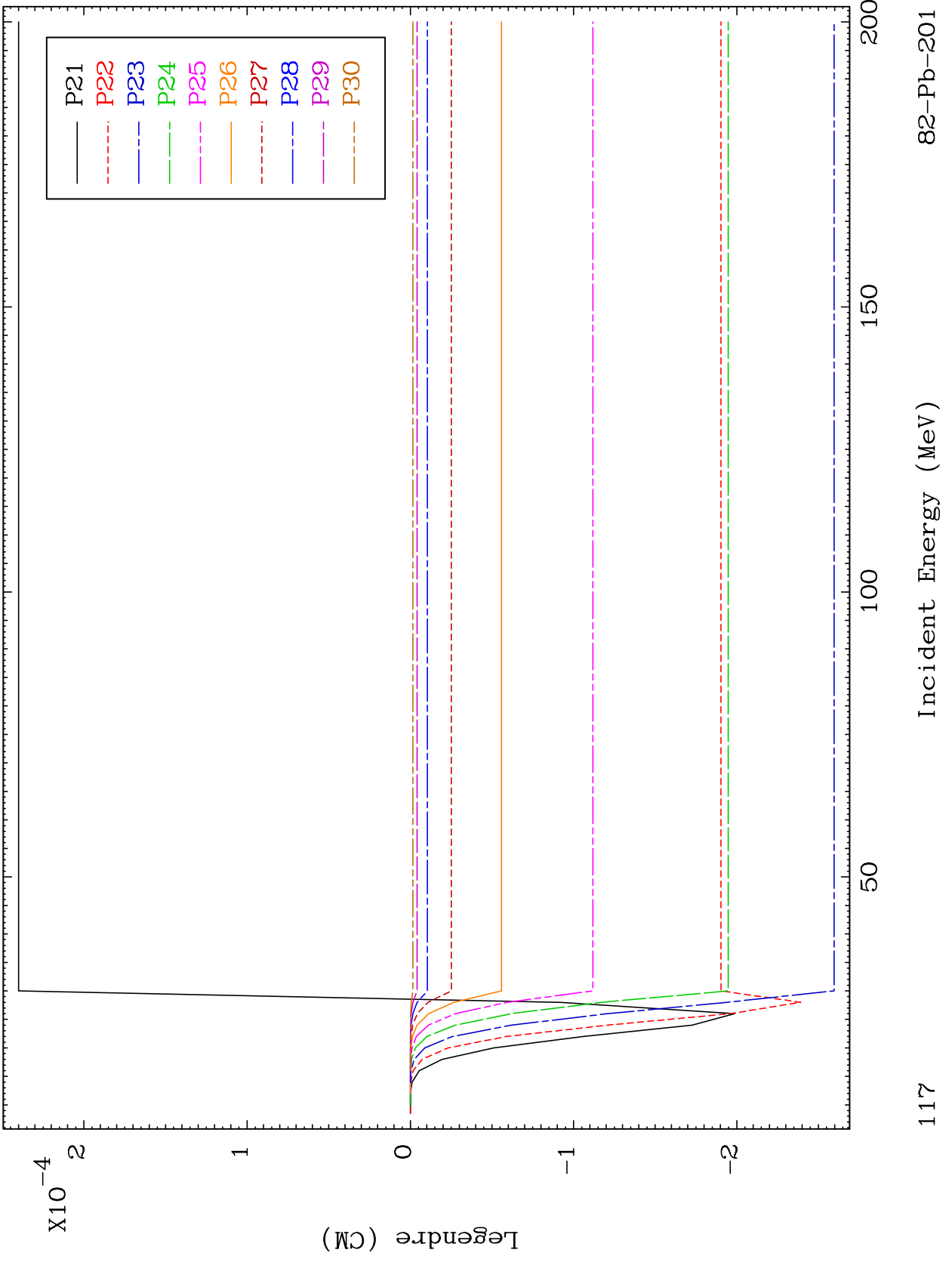
Incident Energy (MeV)

82-Pb-201

MAT 8216

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

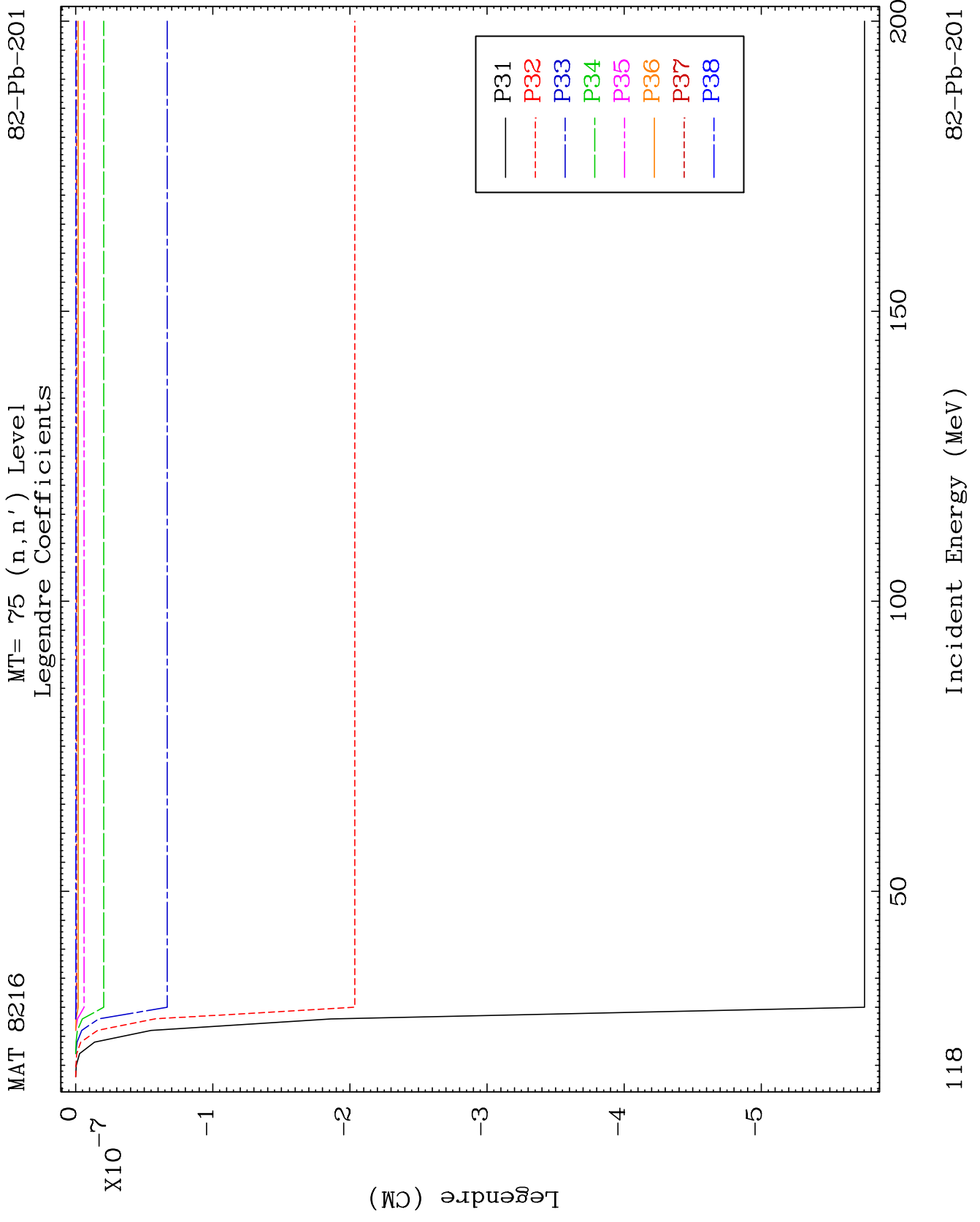
82-Pb-201



117

Incident Energy (MeV)

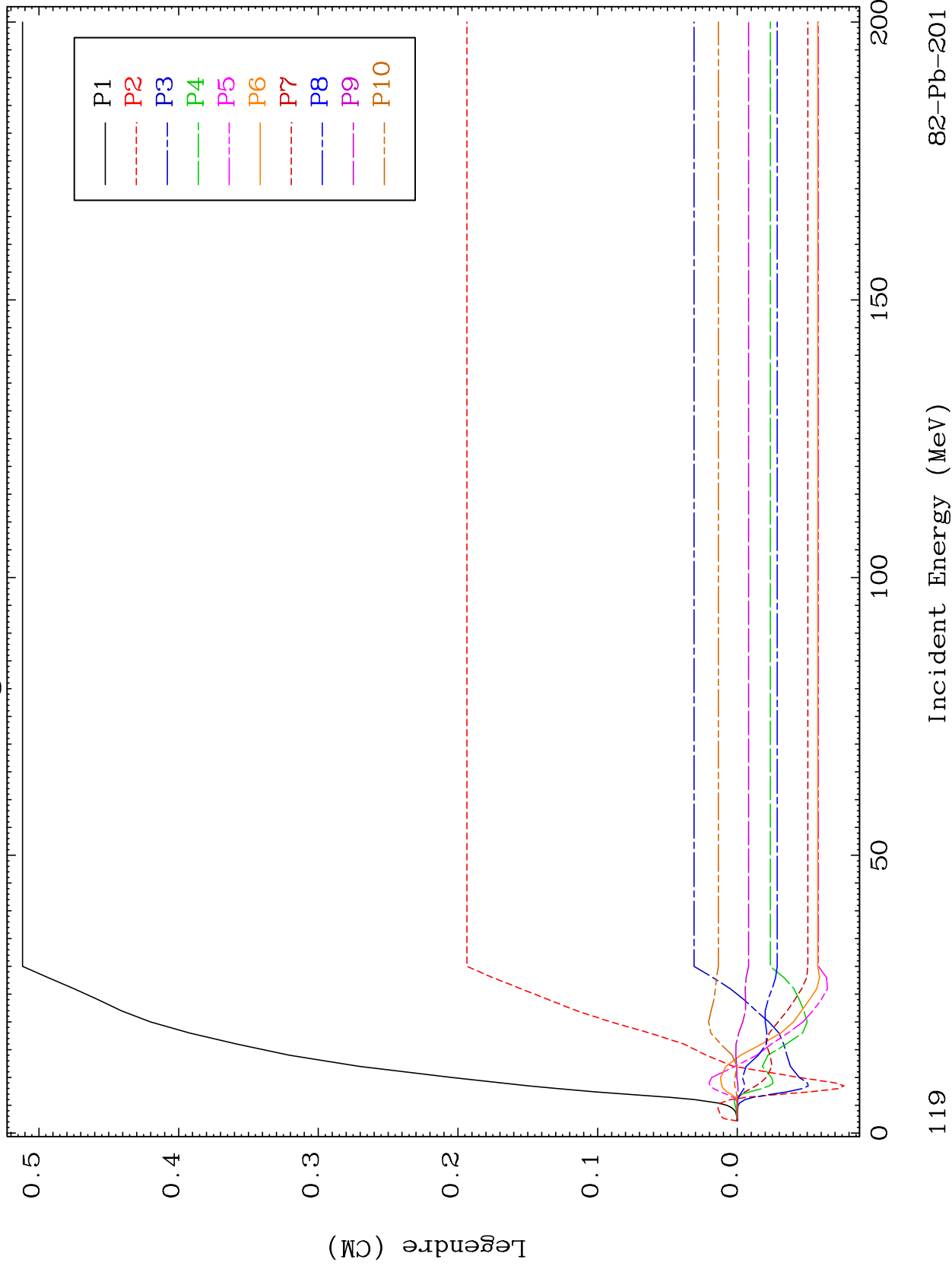
82-Pb-201



MAT 8216

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

82-Pb-201

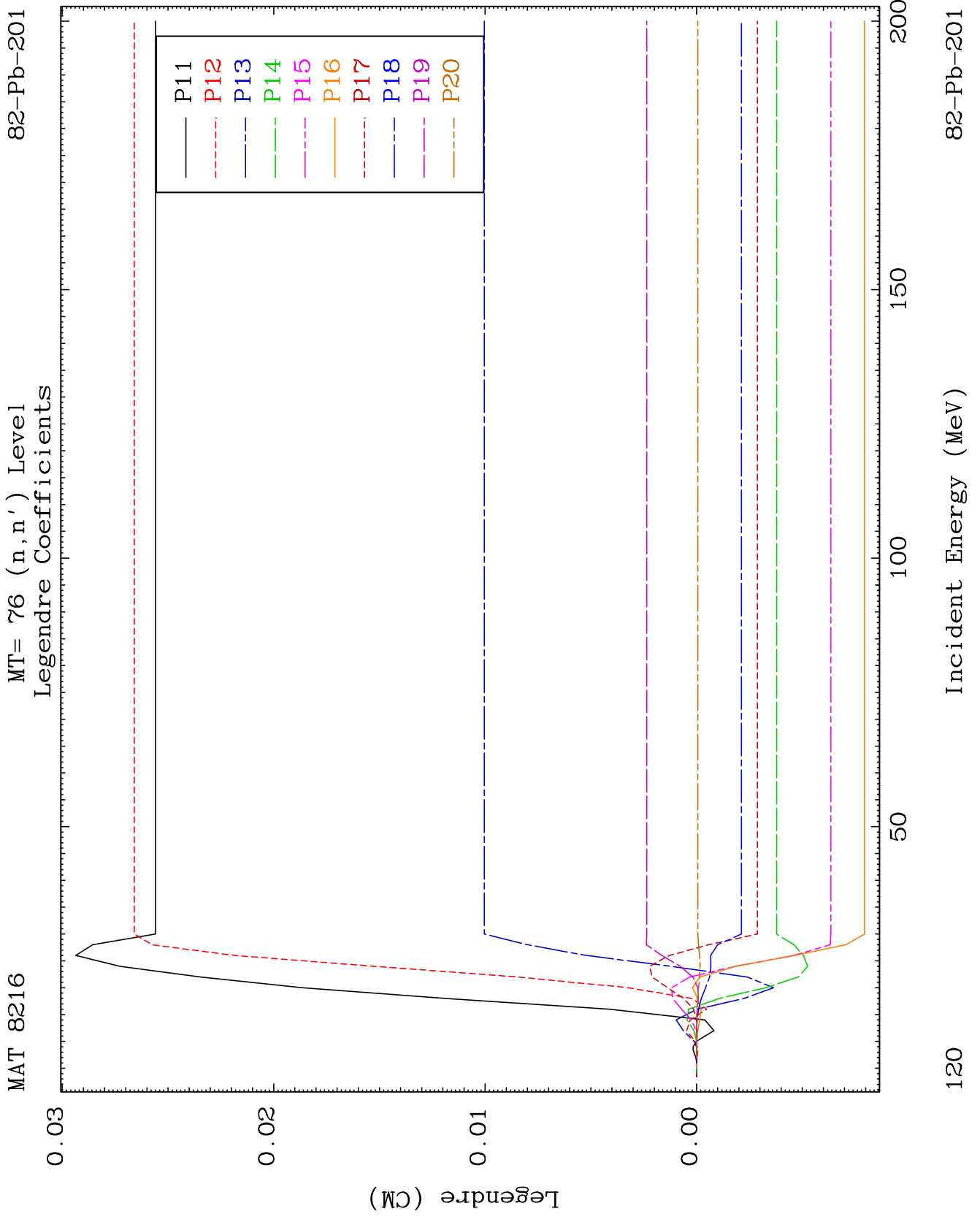


82-Pb-201

Incident Energy (MeV)

119

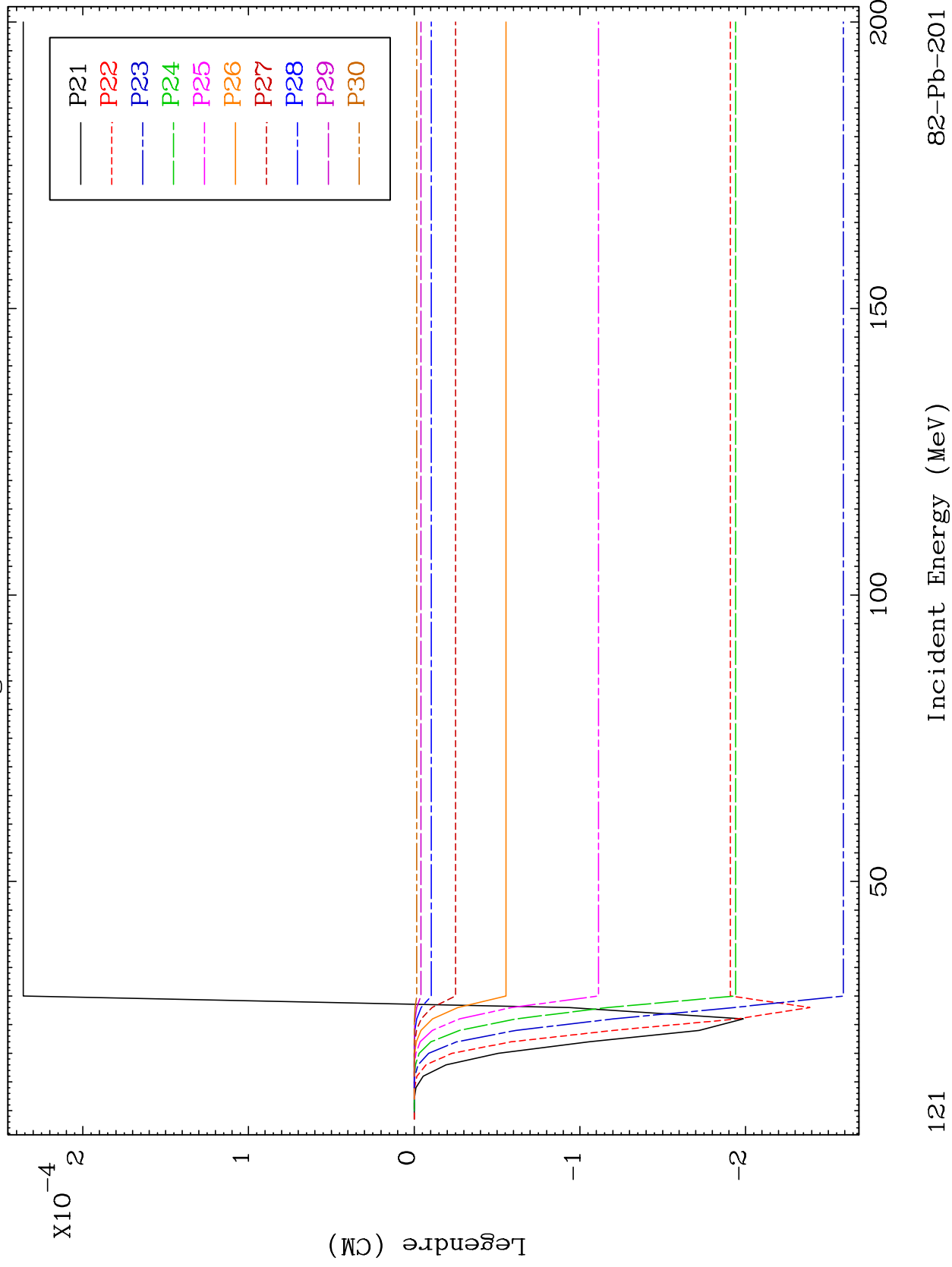




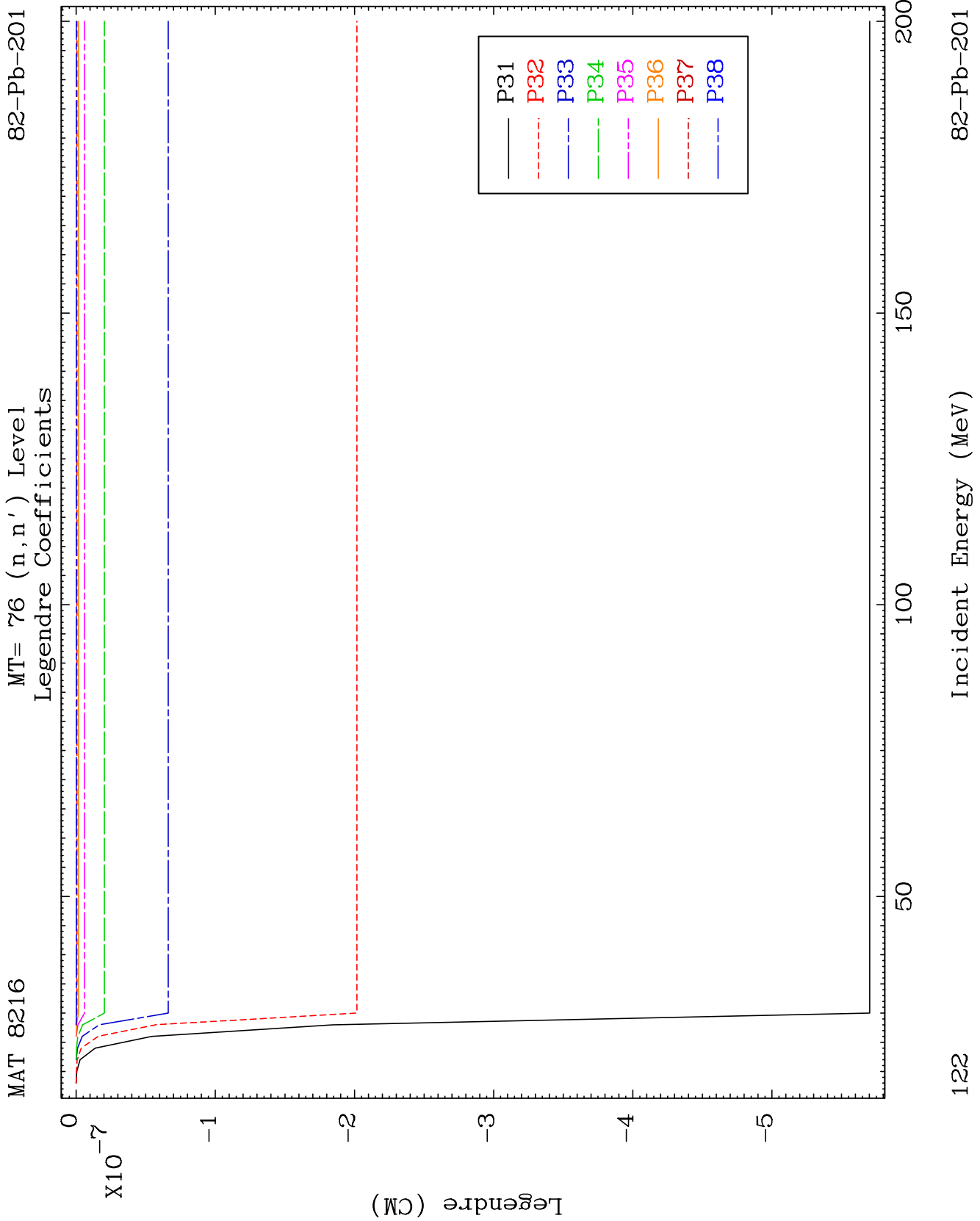
MAT 8216

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

82-Pb-201



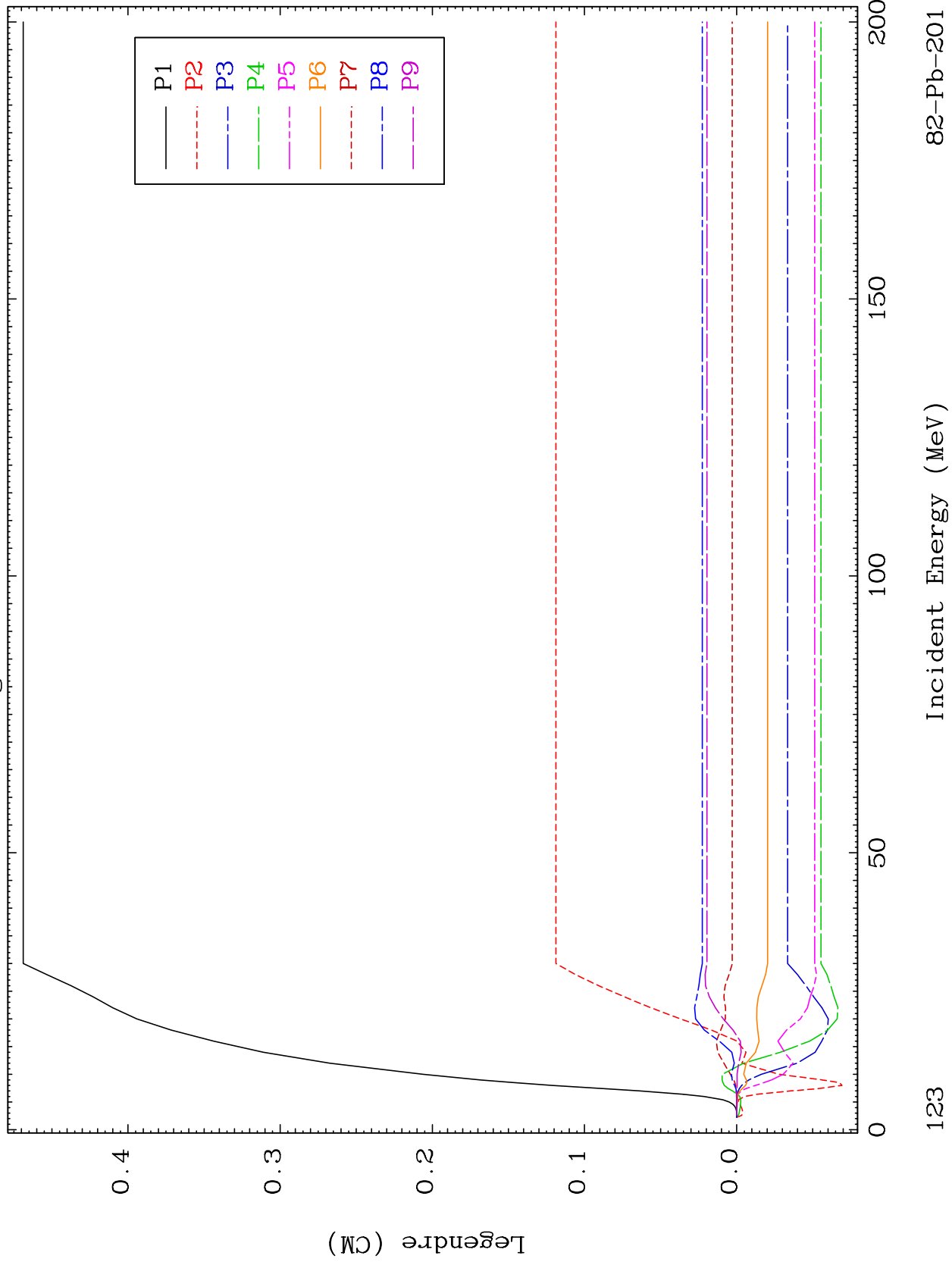
121



MAT 8216

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

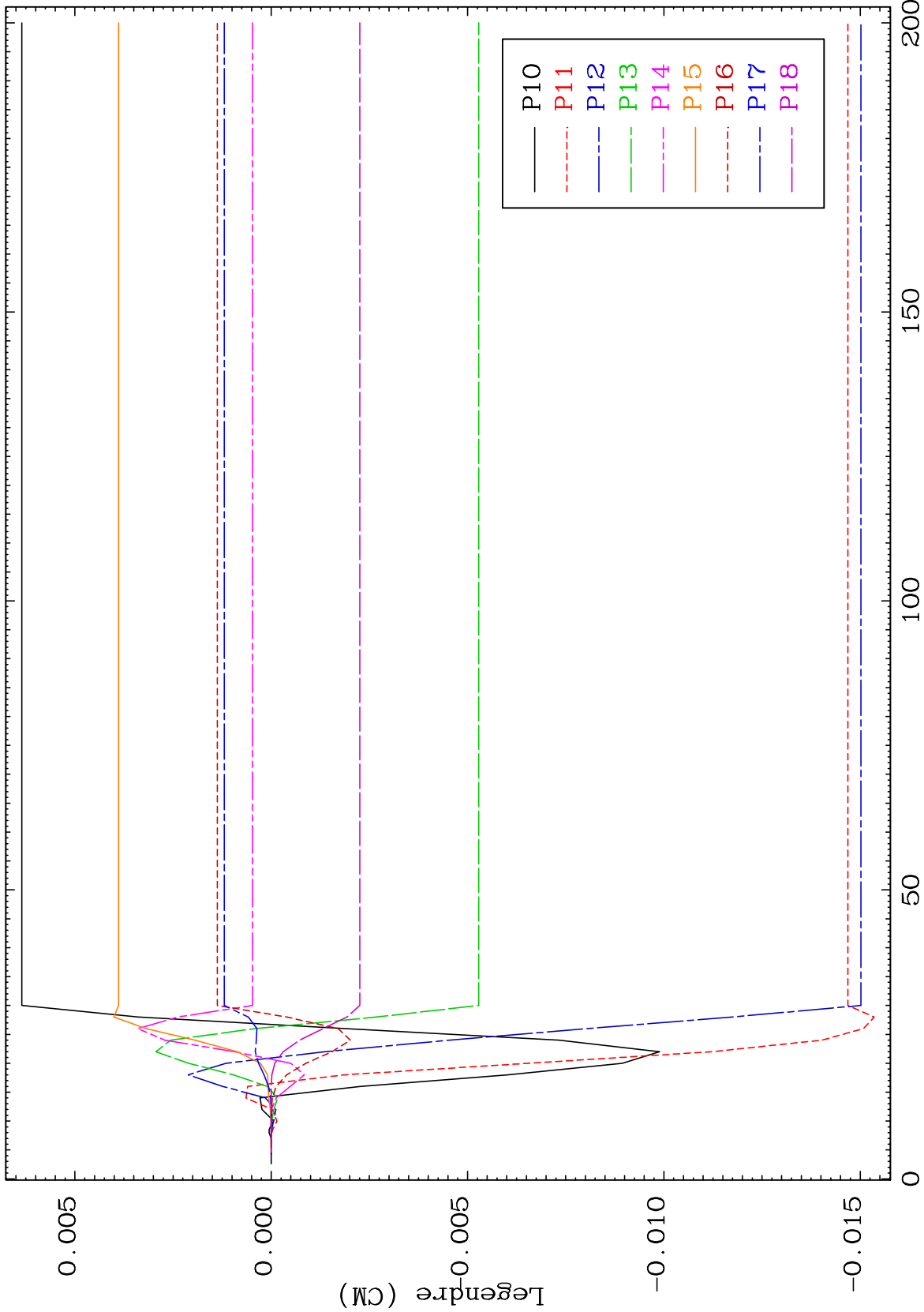
82-Pb-201



MAT 8216

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

82-Pb-201



124

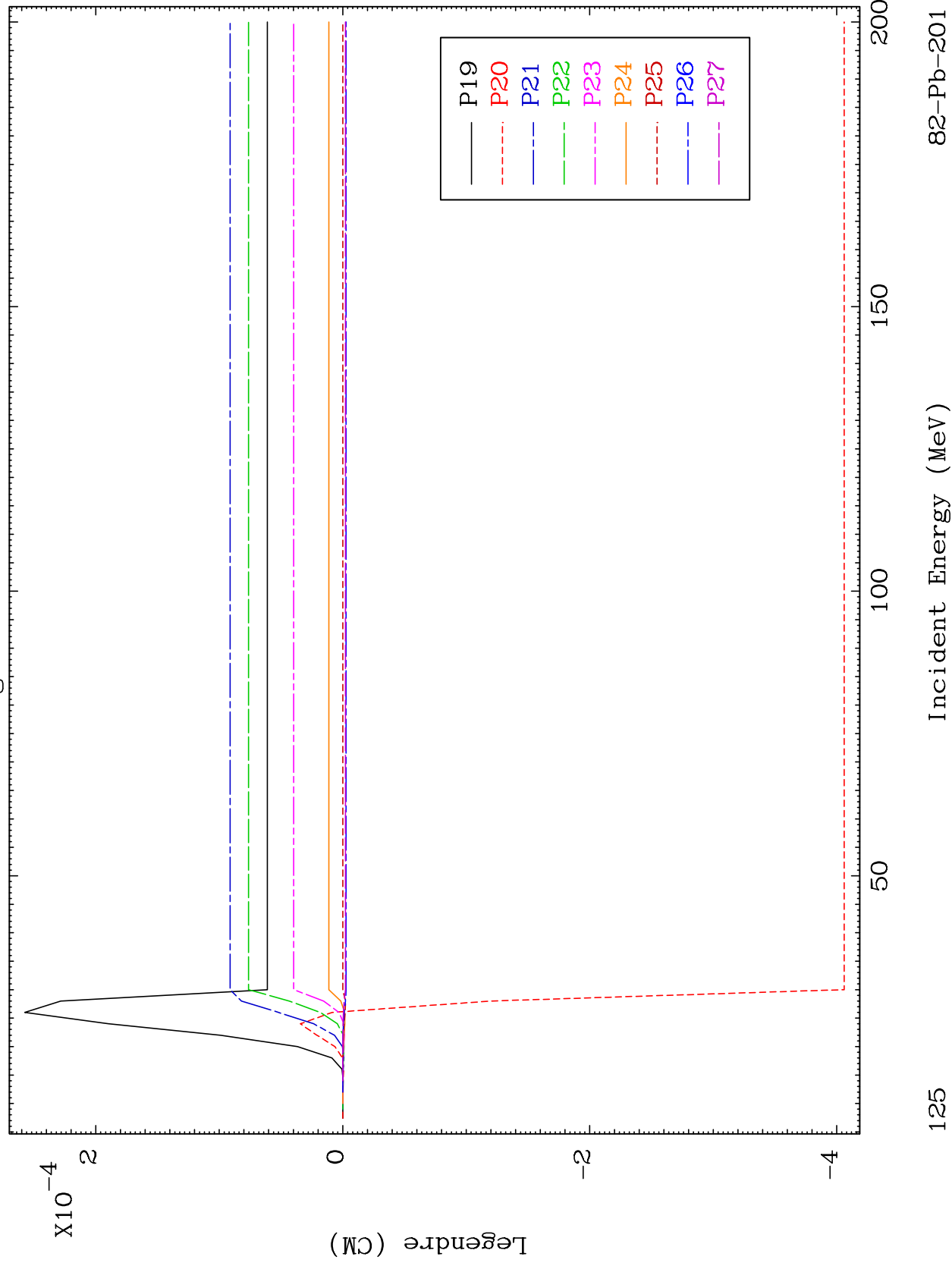
Incident Energy (MeV)

82-Pb-201

MAT 8216

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

82-Pb-201



125

Incident Energy (MeV)

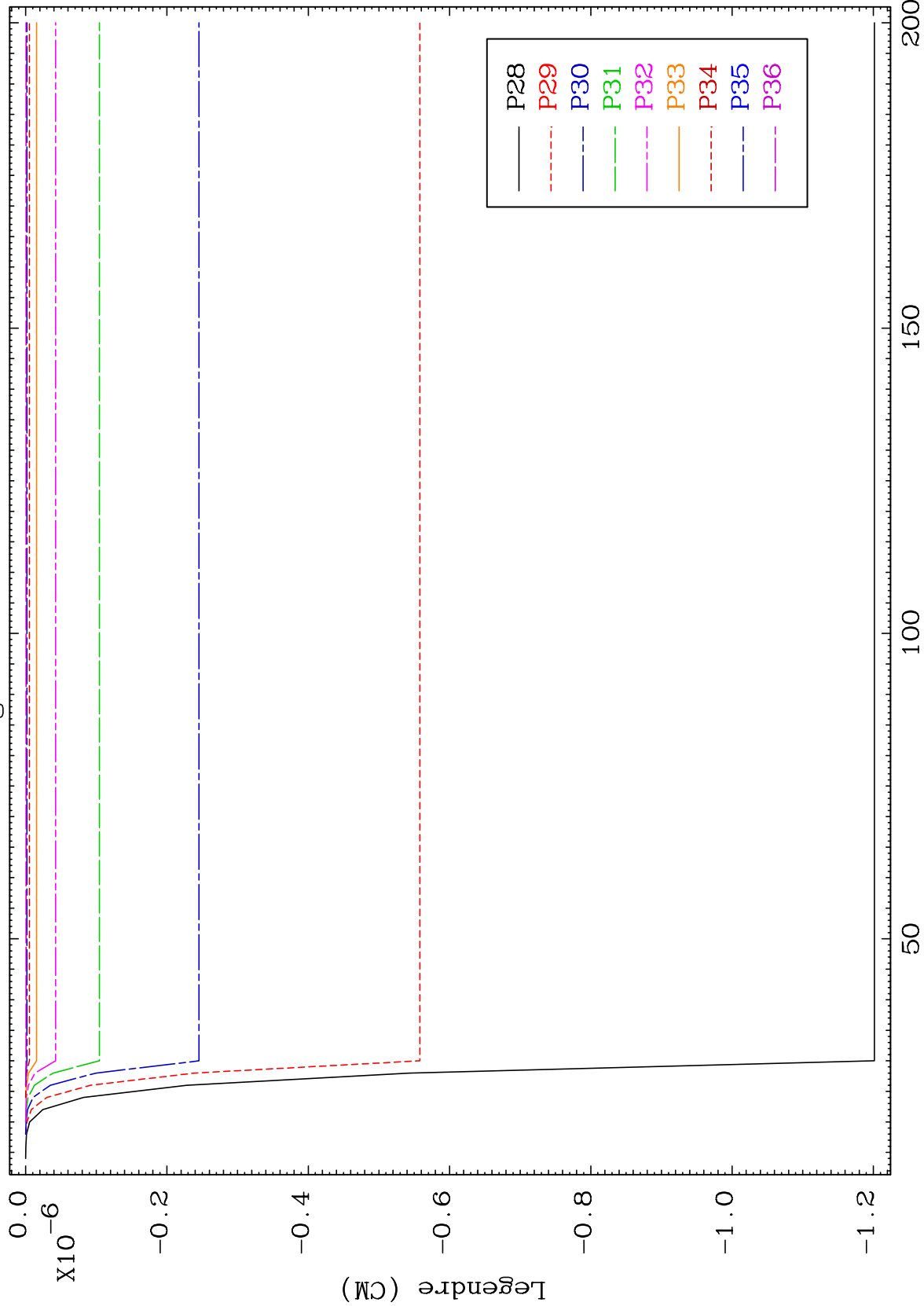
82-Pb-201

MAT 8216

MT= 77 (n,n') Level

82-Pb-201

Legendre Coefficients



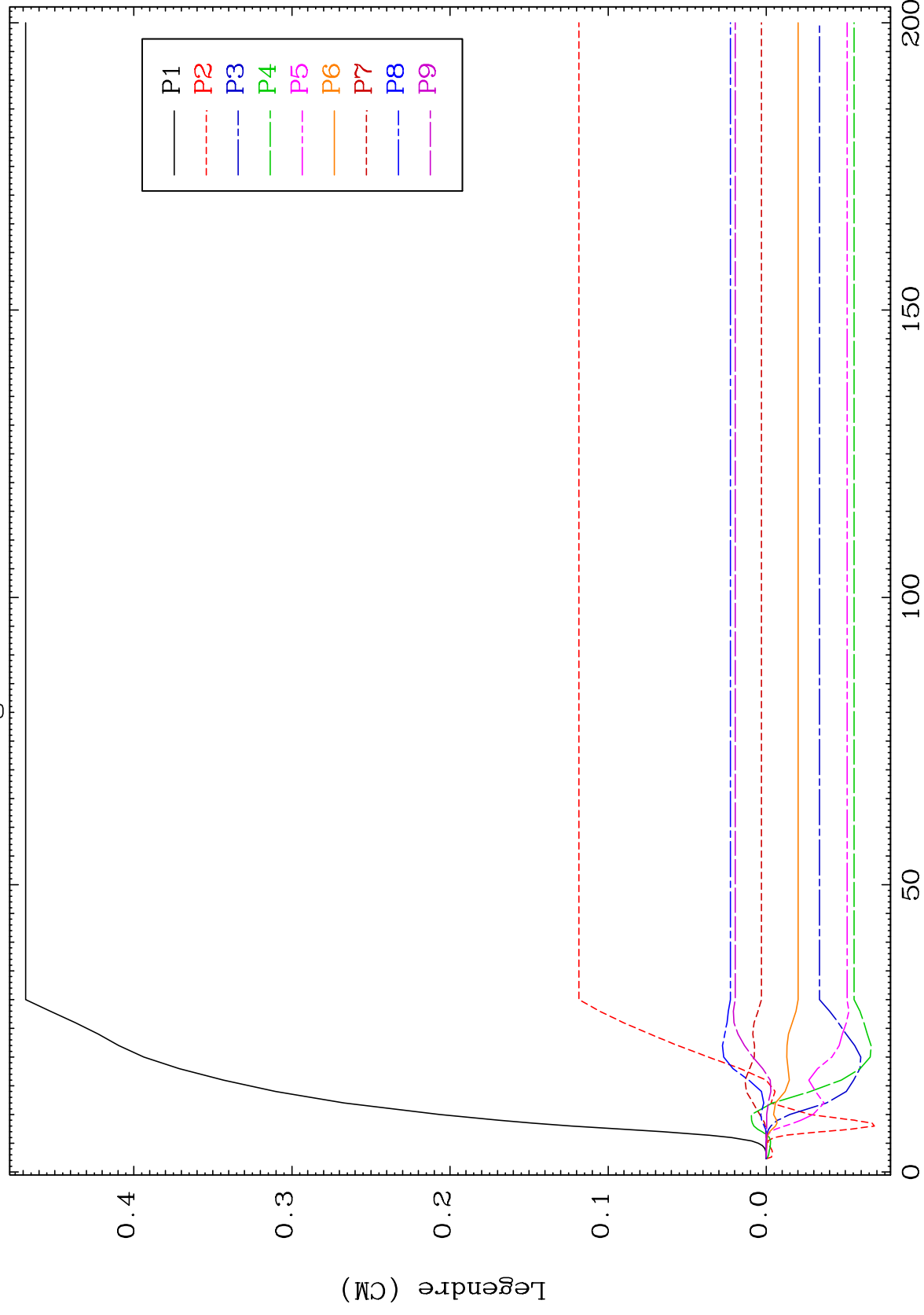
126

82-Pb-201

MAT 8216

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

82-Pb-201



127

Incident Energy (MeV)

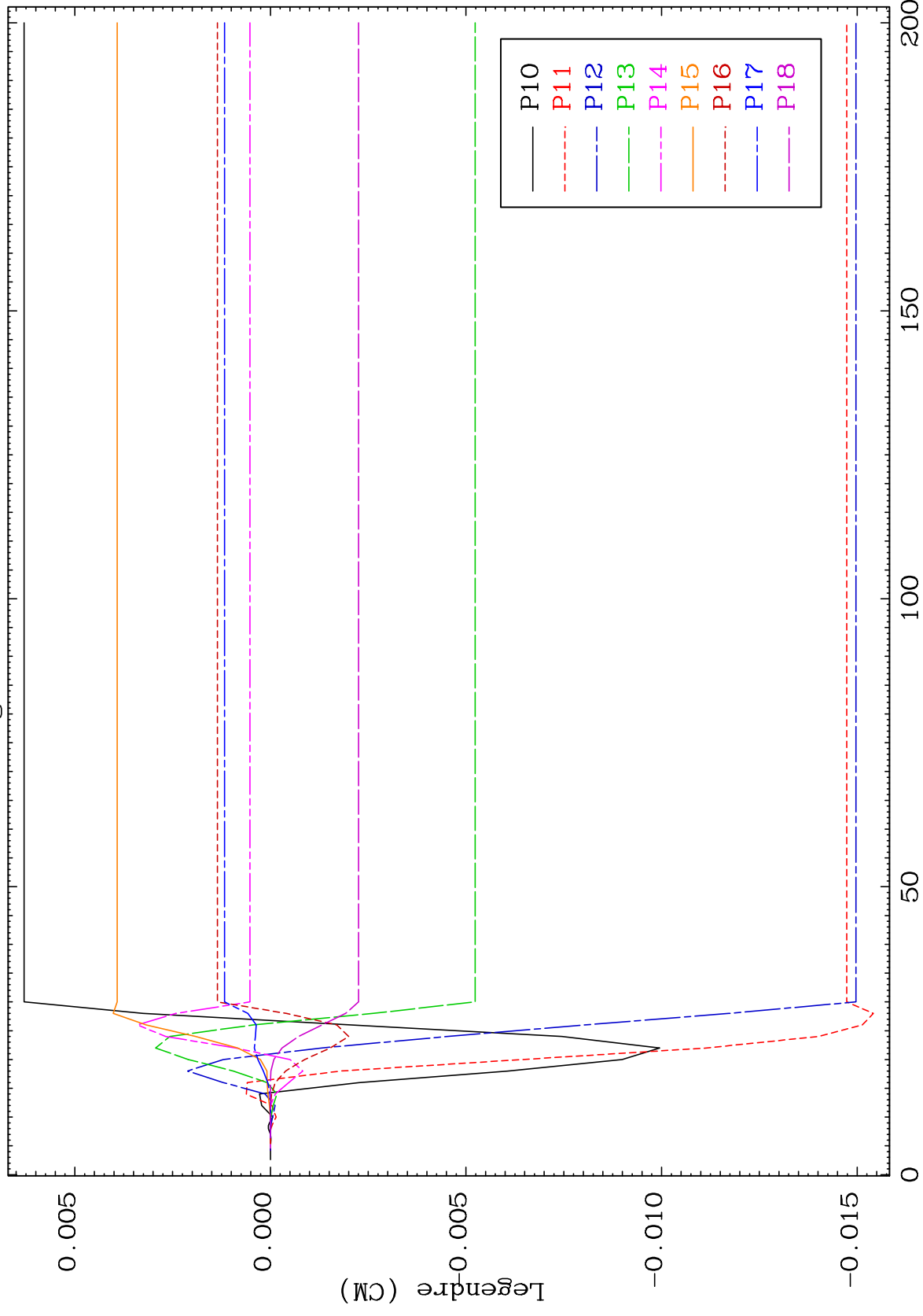
82-Pb-201



MAT 8216

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

82-Pb-201



128

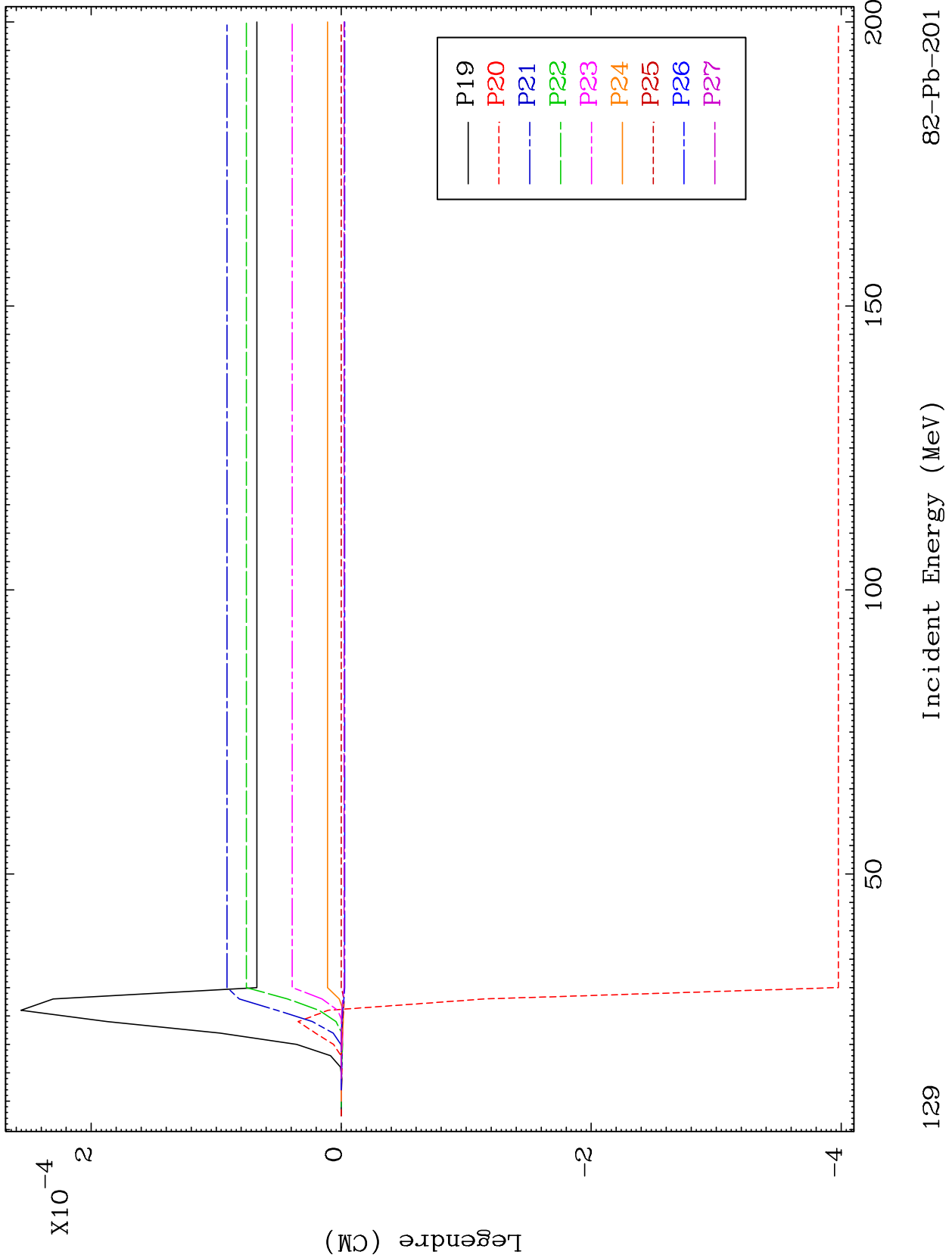
Incident Energy (MeV)

82-Pb-201

MAT 8216

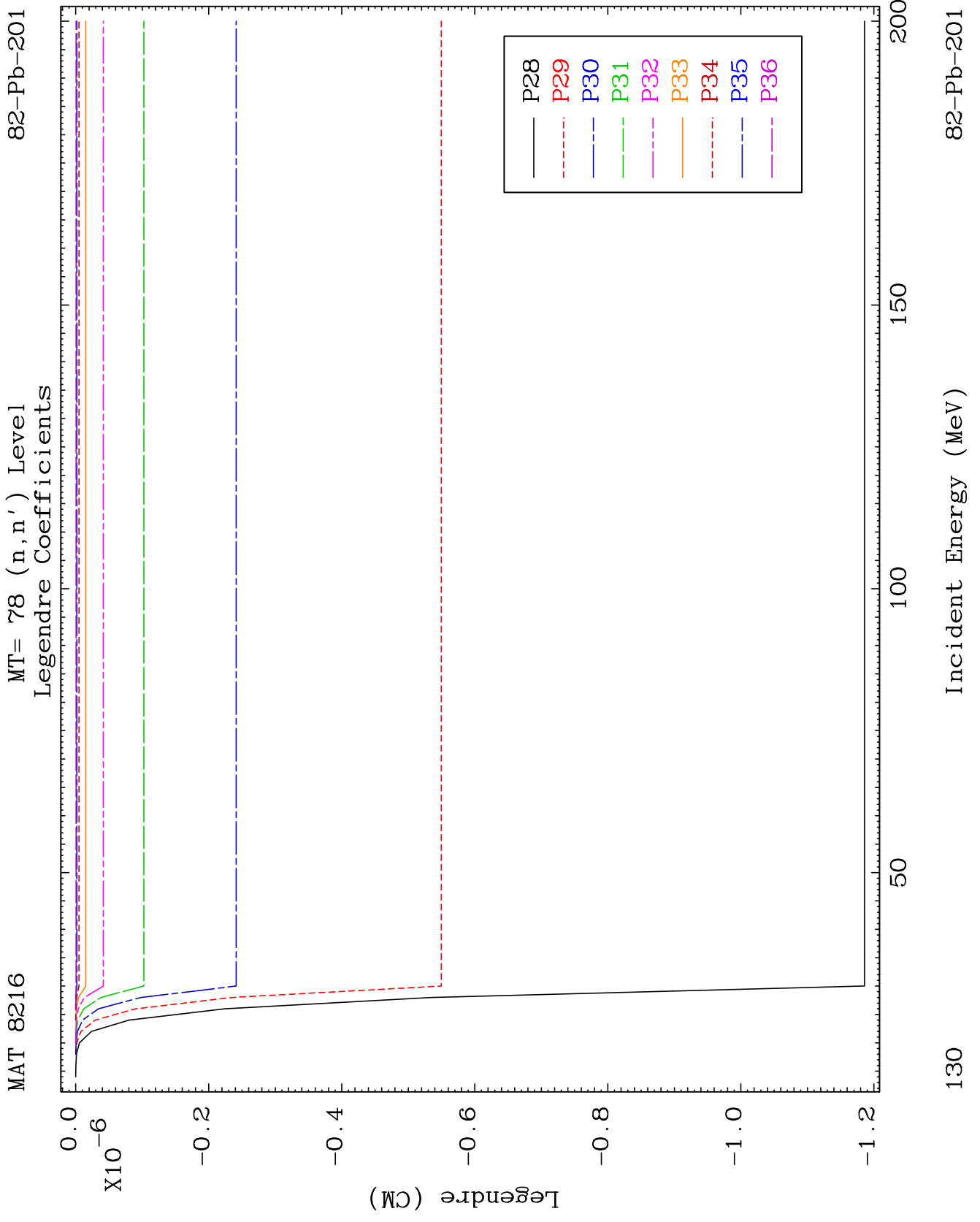
MT= 78 (n,n') Level  
Legendre Coefficients

82-Pb-201



129

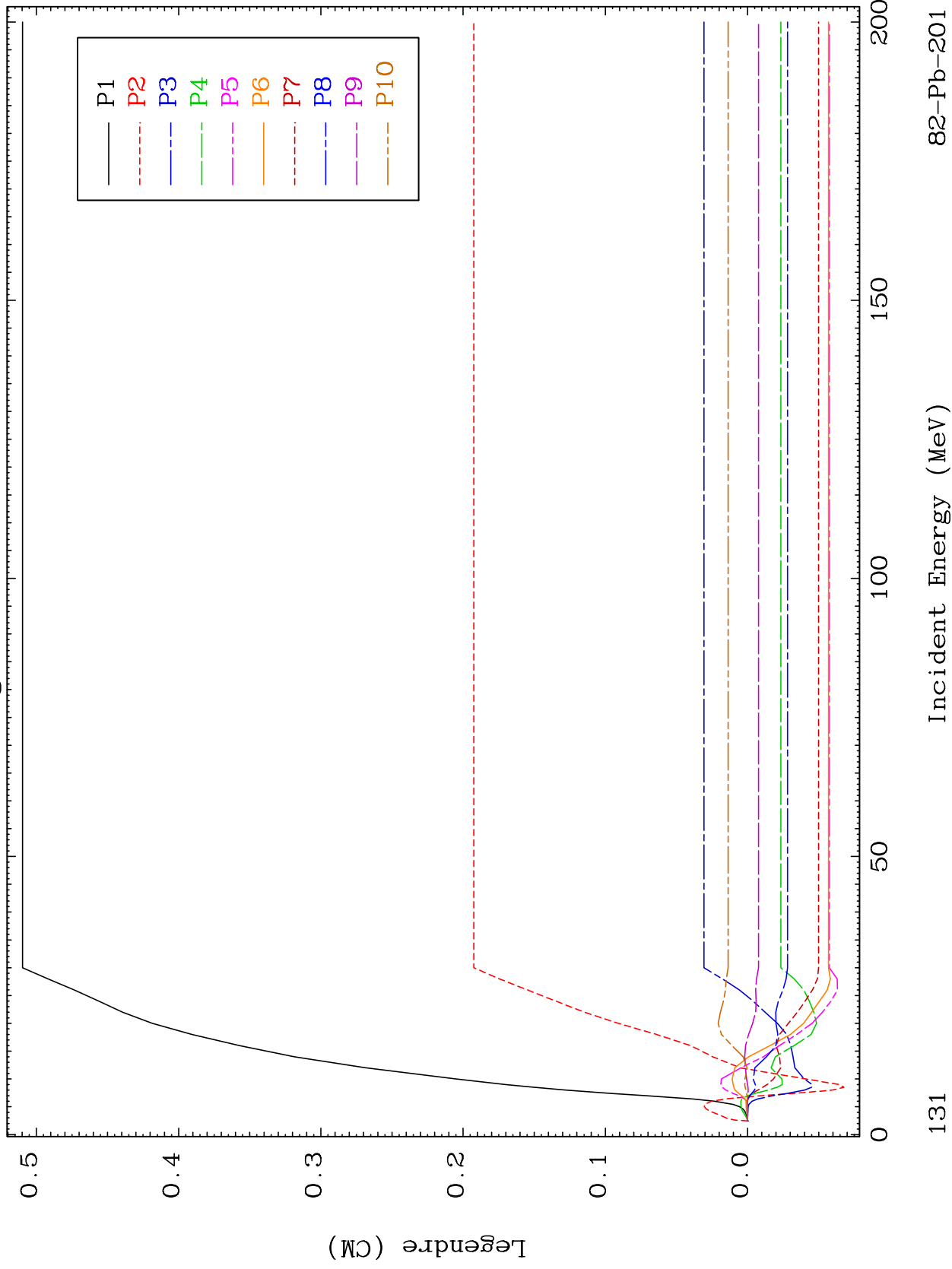
82-Pb-201



MAT 8216

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

82-Pb-201



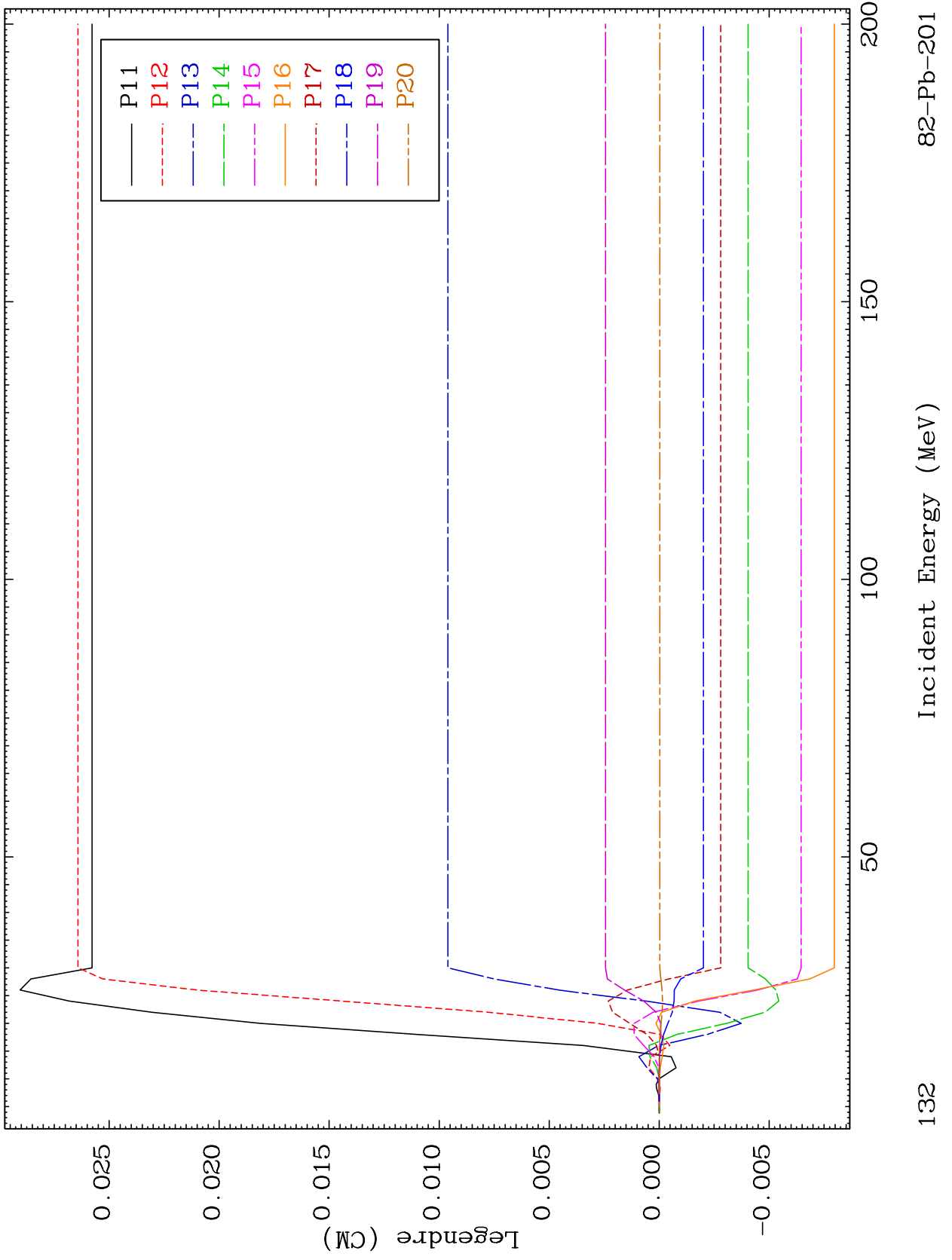
131

82-Pb-201

MAT 8216

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

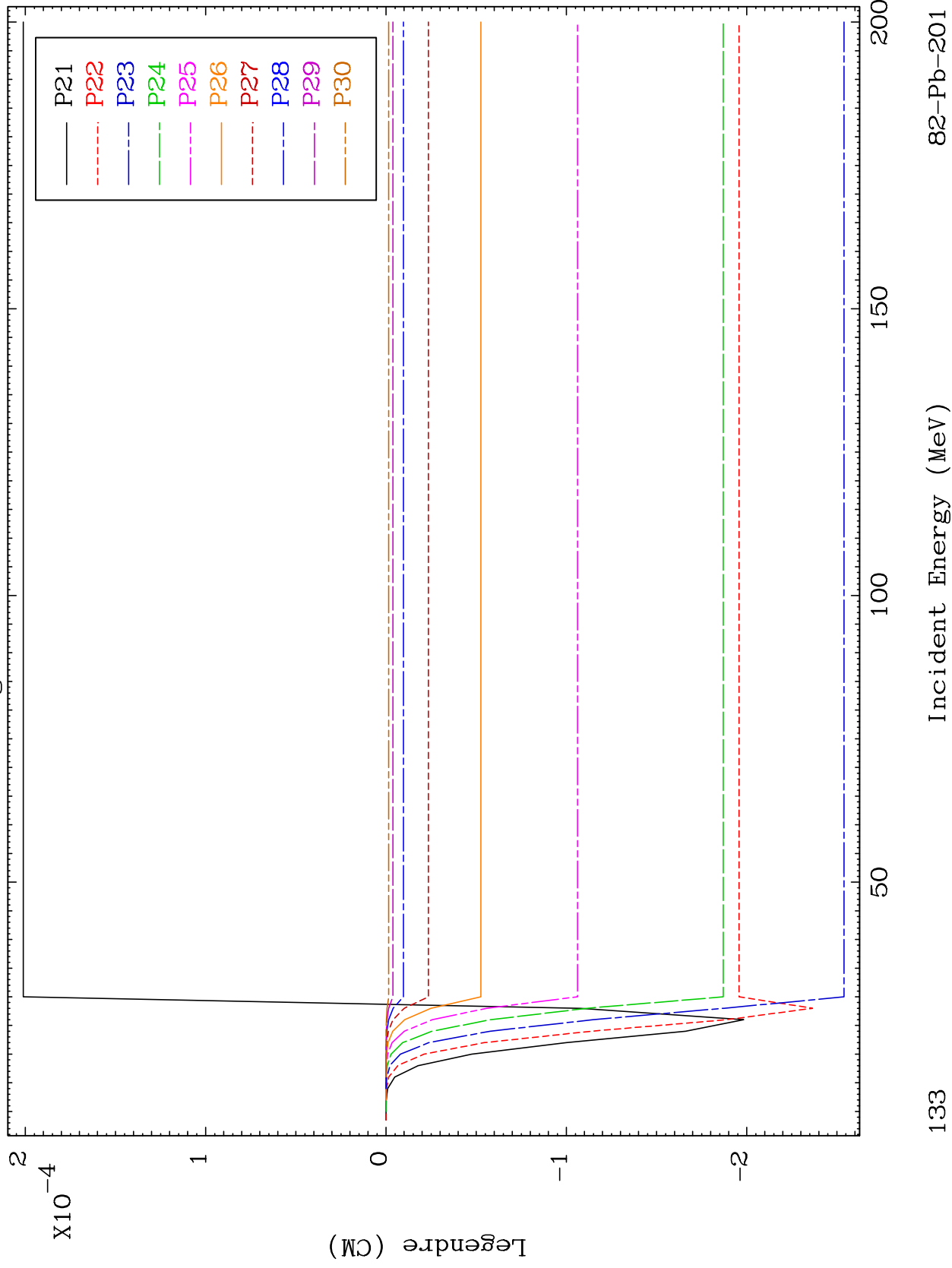
82-Pb-201



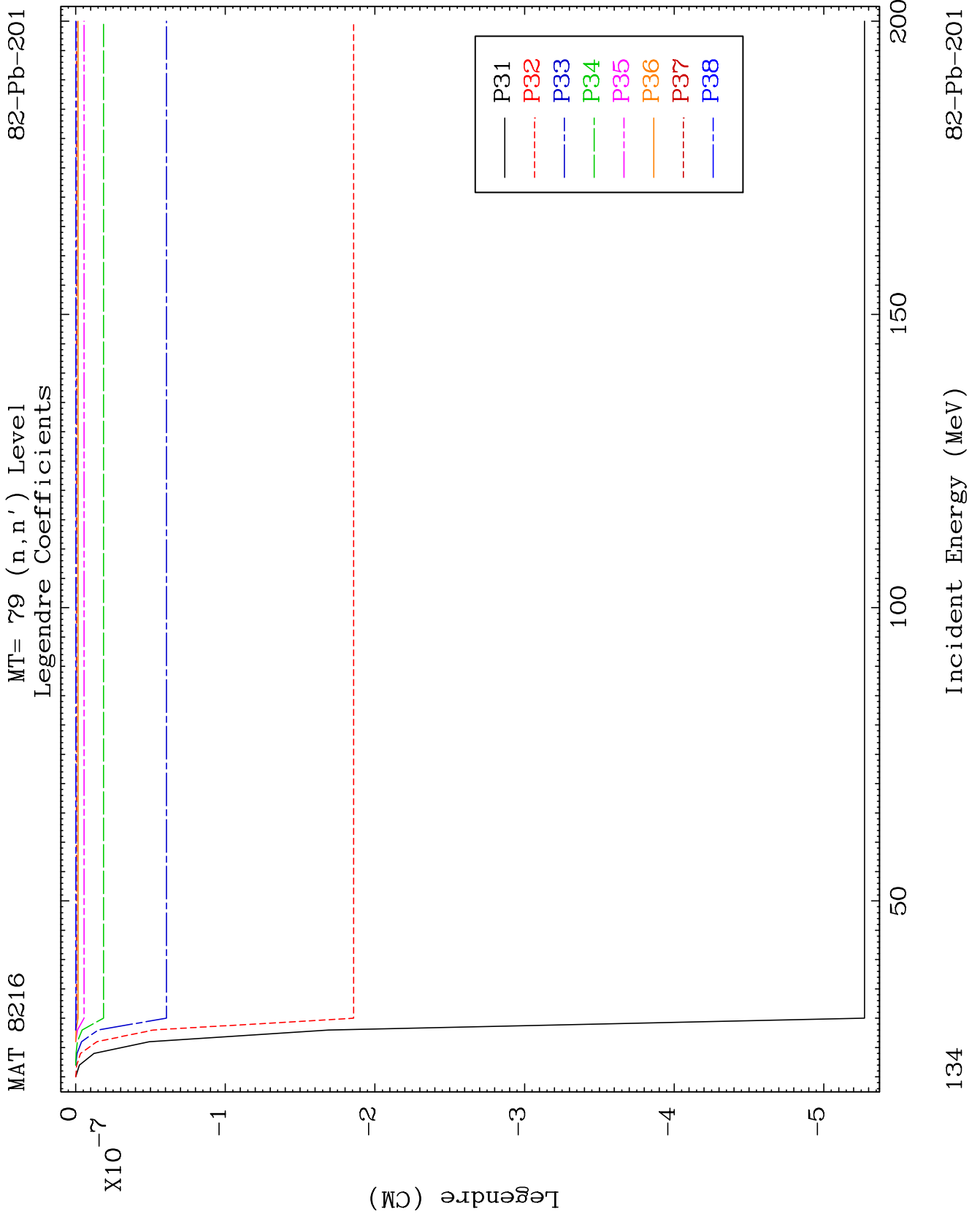
MAT 8216

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

82-Pb-201



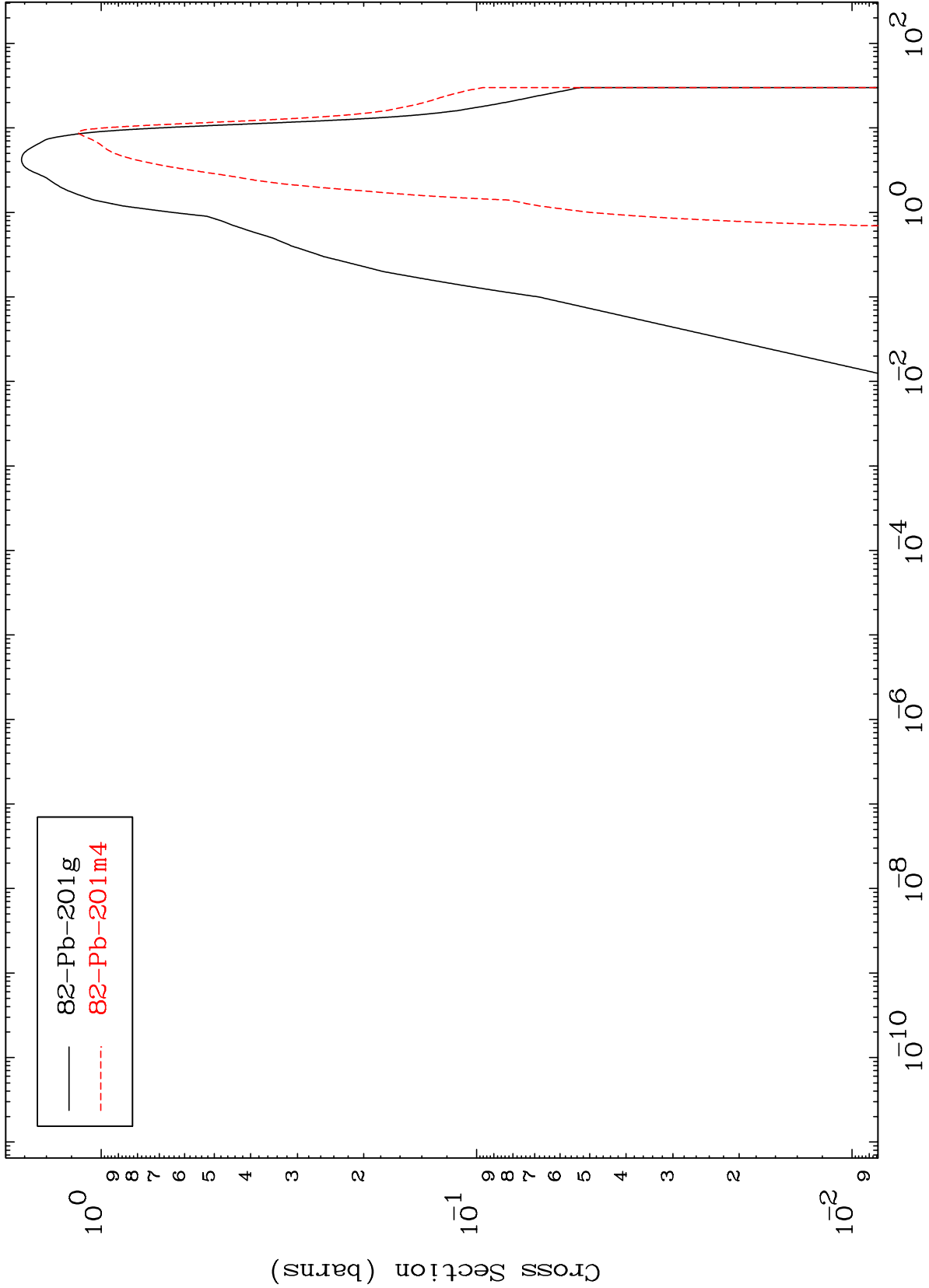
133



MAT 8216

Inelastic  
Radionuclide Production Cross Section

82-Pb-201



82-Pb-201 g  
82-Pb-201 m4

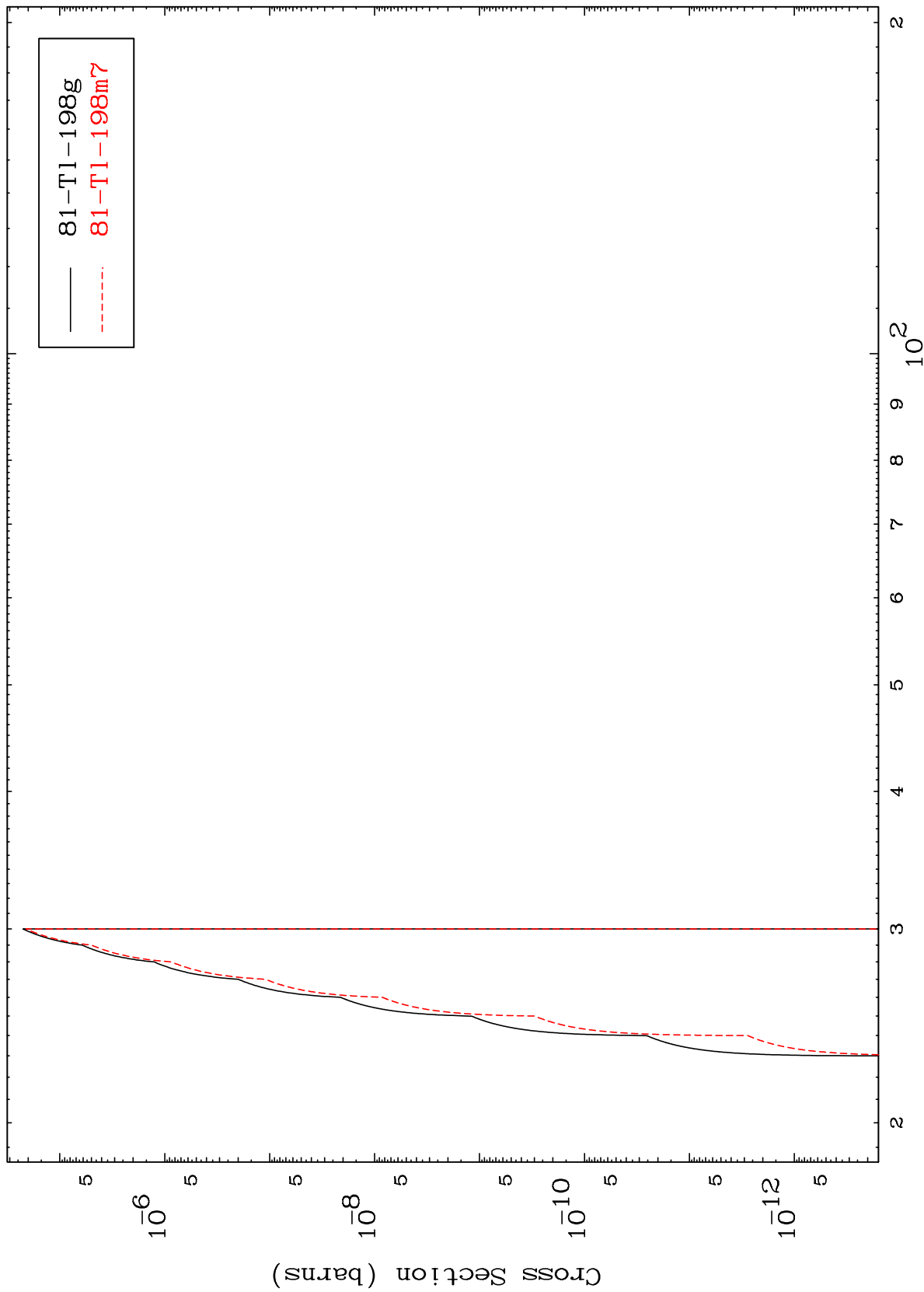


MAT 8216

(n,2n) d

82-Pb-201

Radionuclide Production Cross Section



136

Incident Energy (MeV)

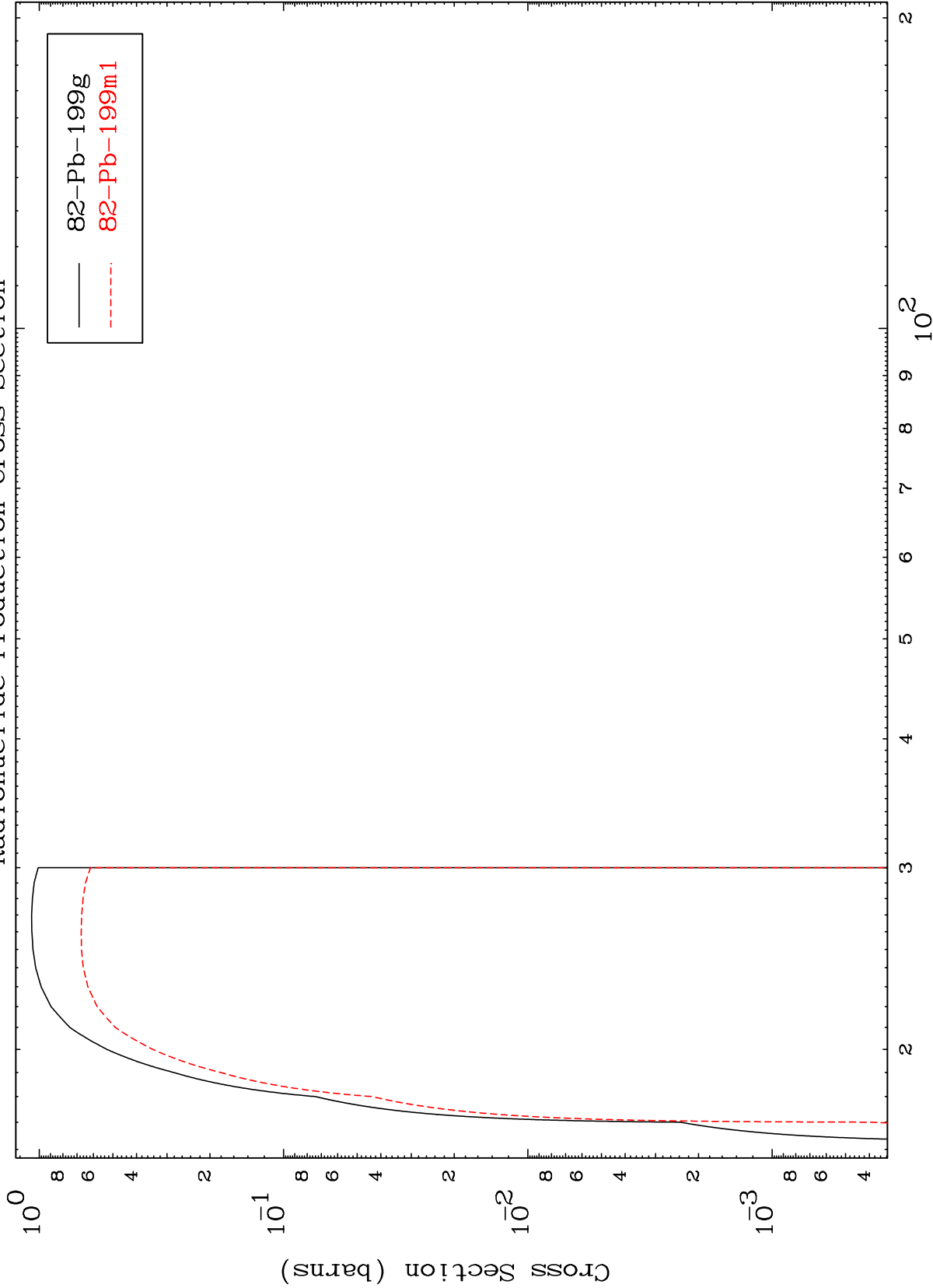
82-Pb-201

MAT 8216

(n,3n)

82-Pb-201

Radionuclide Production Cross Section



137

Incident Energy (MeV)

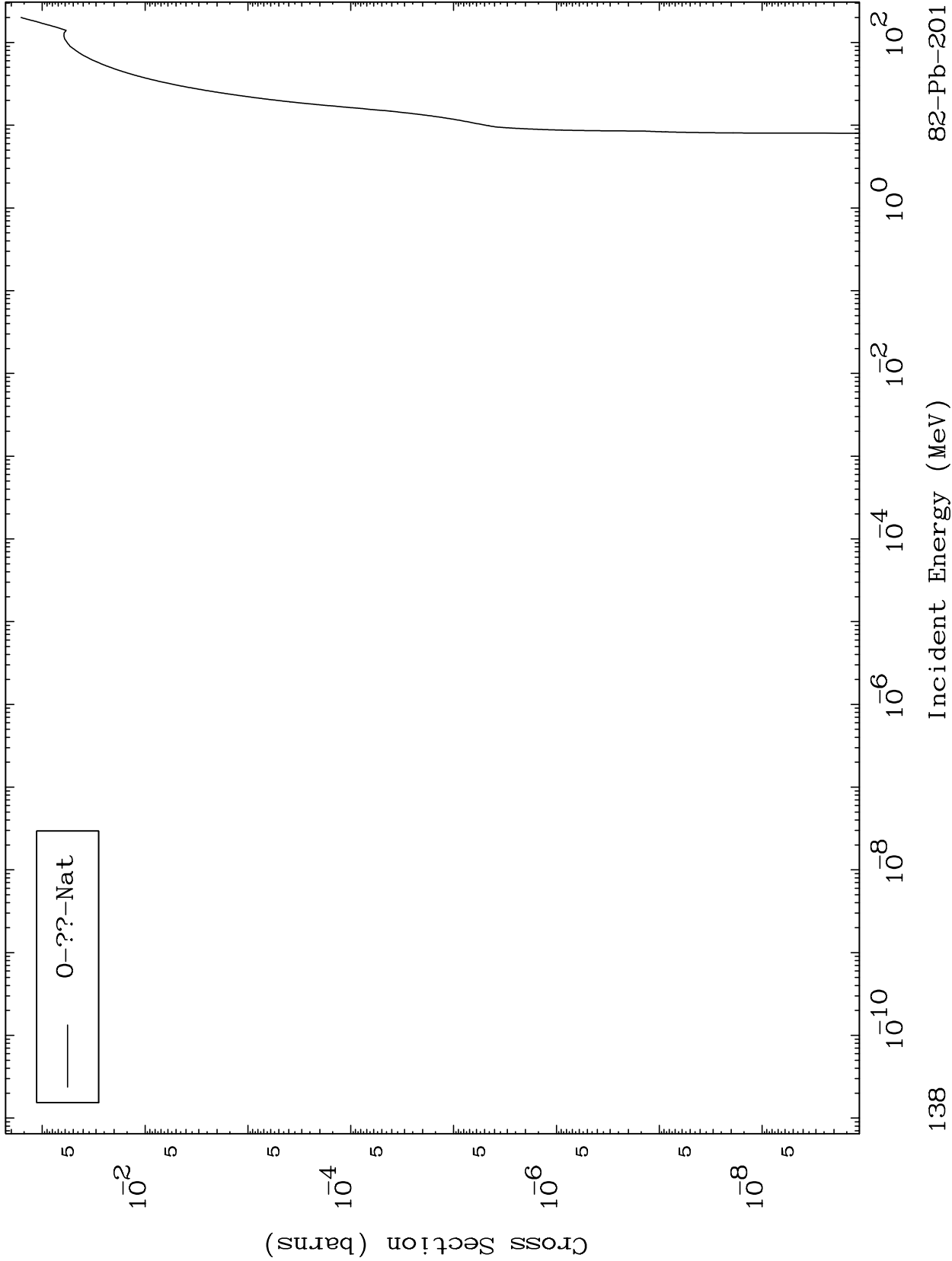
82-Pb-201

MAT 8216

Fission

82-Pb-201

Radionuclide Production Cross Section

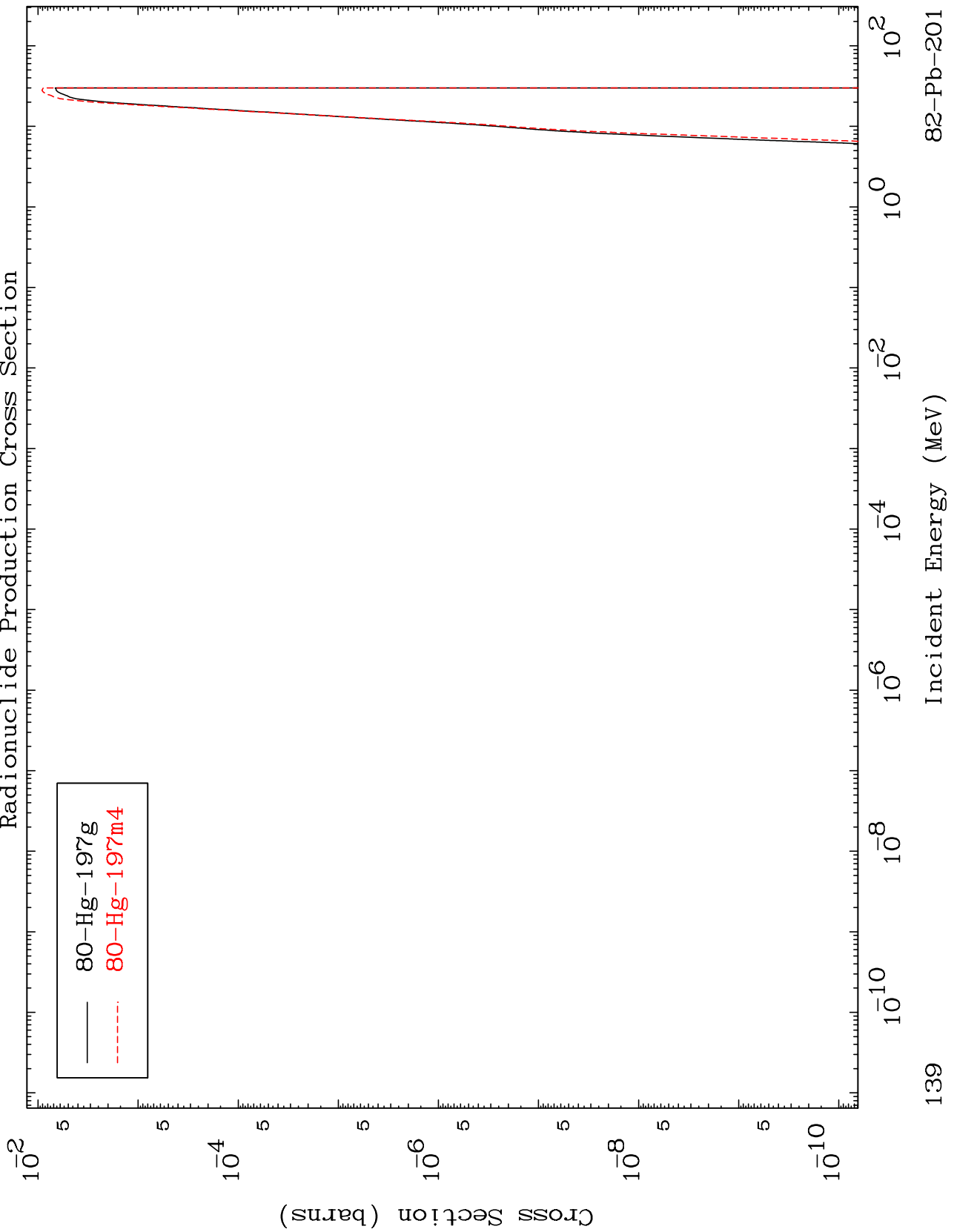


MAT 8216

$(n, n') \alpha$

82-Pb-201

Radionuclide Production Cross Section

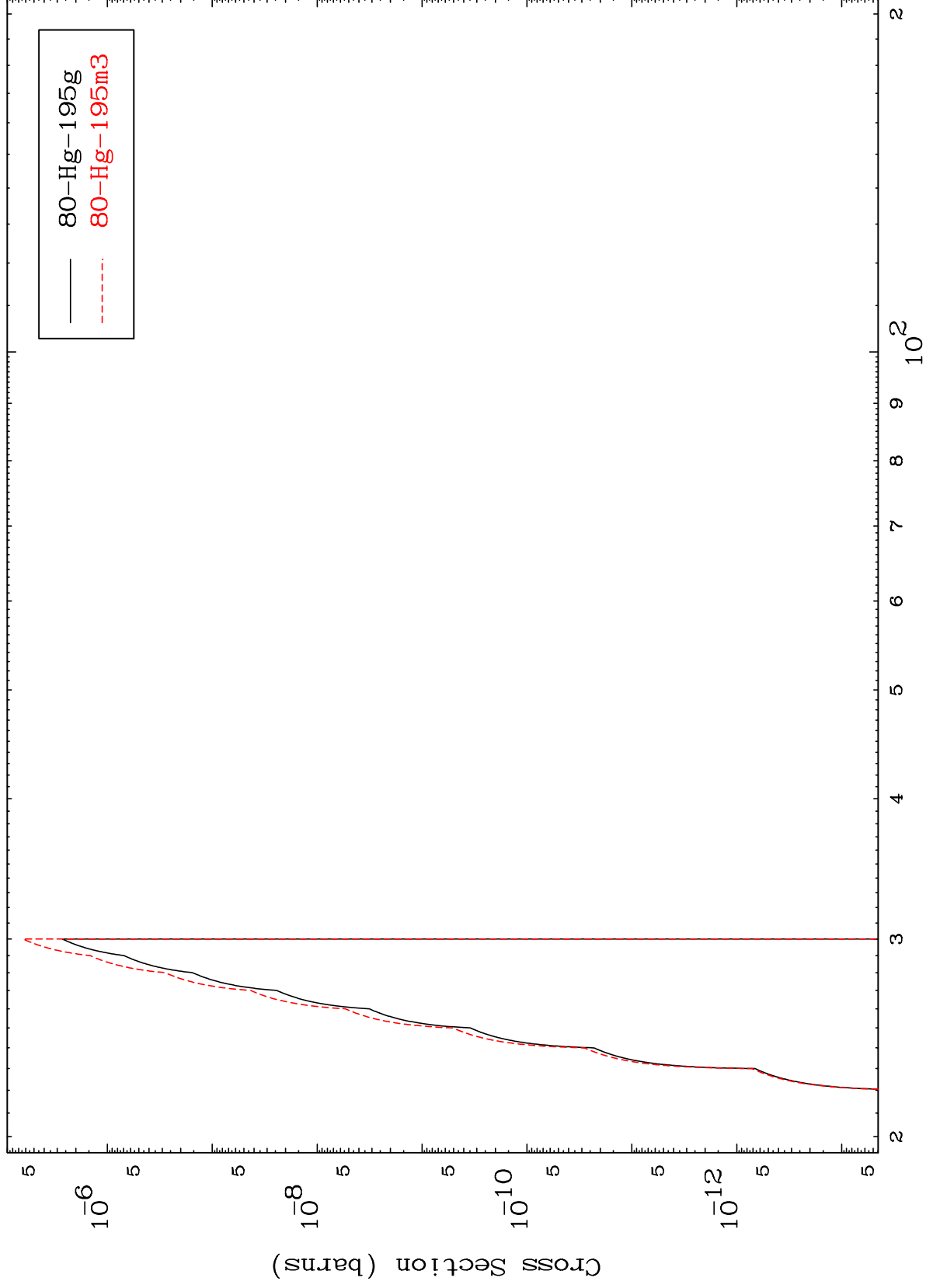


MAT 8216

(n,3n)  $\alpha$

82-Pb-201

Radionuclide Production Cross Section



140

Incident Energy (MeV)

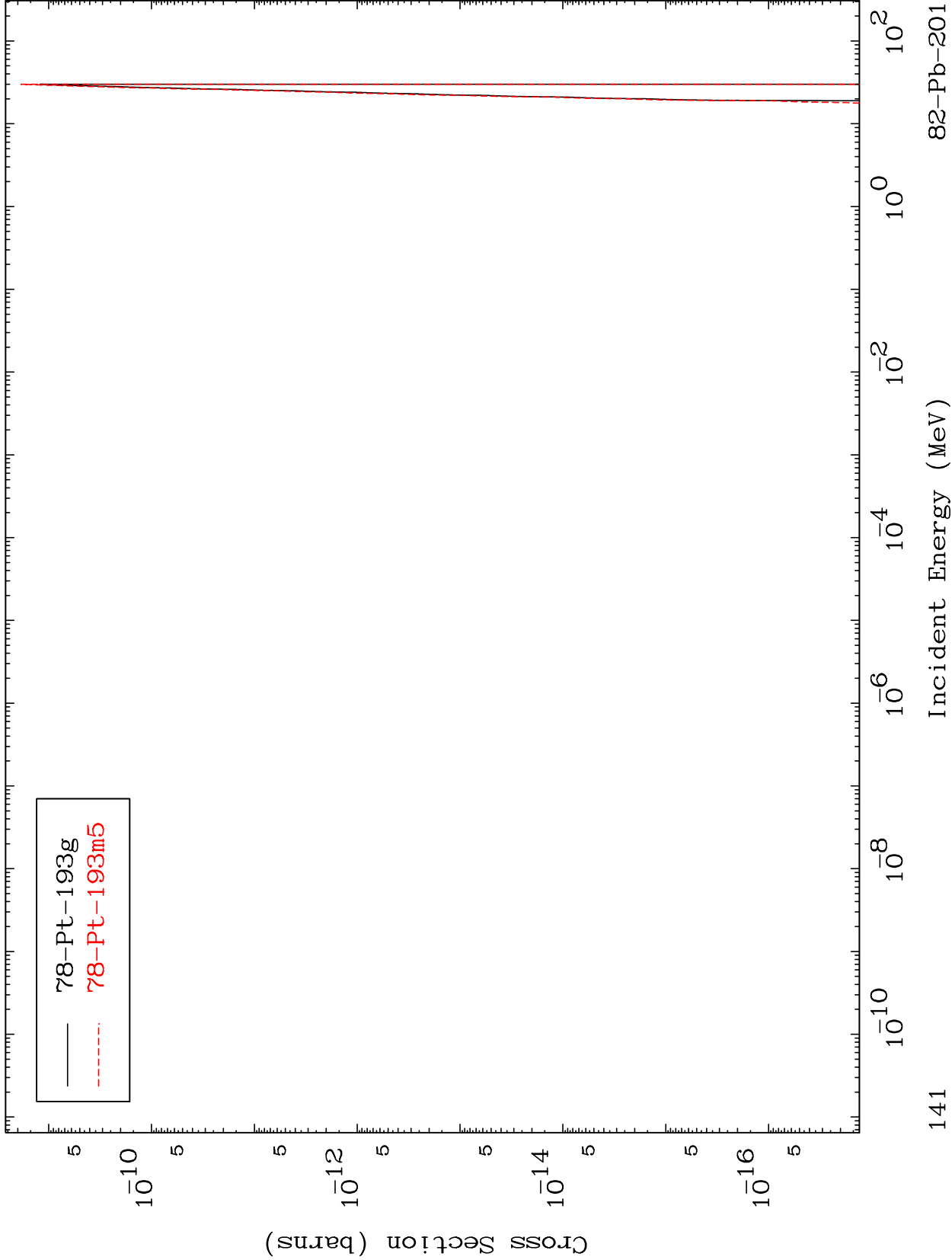
82-Pb-201

MAT 8216

(n,n') 2 $\alpha$

82-Pb-201

Radionuclide Production Cross Section



141

Incident Energy (MeV)

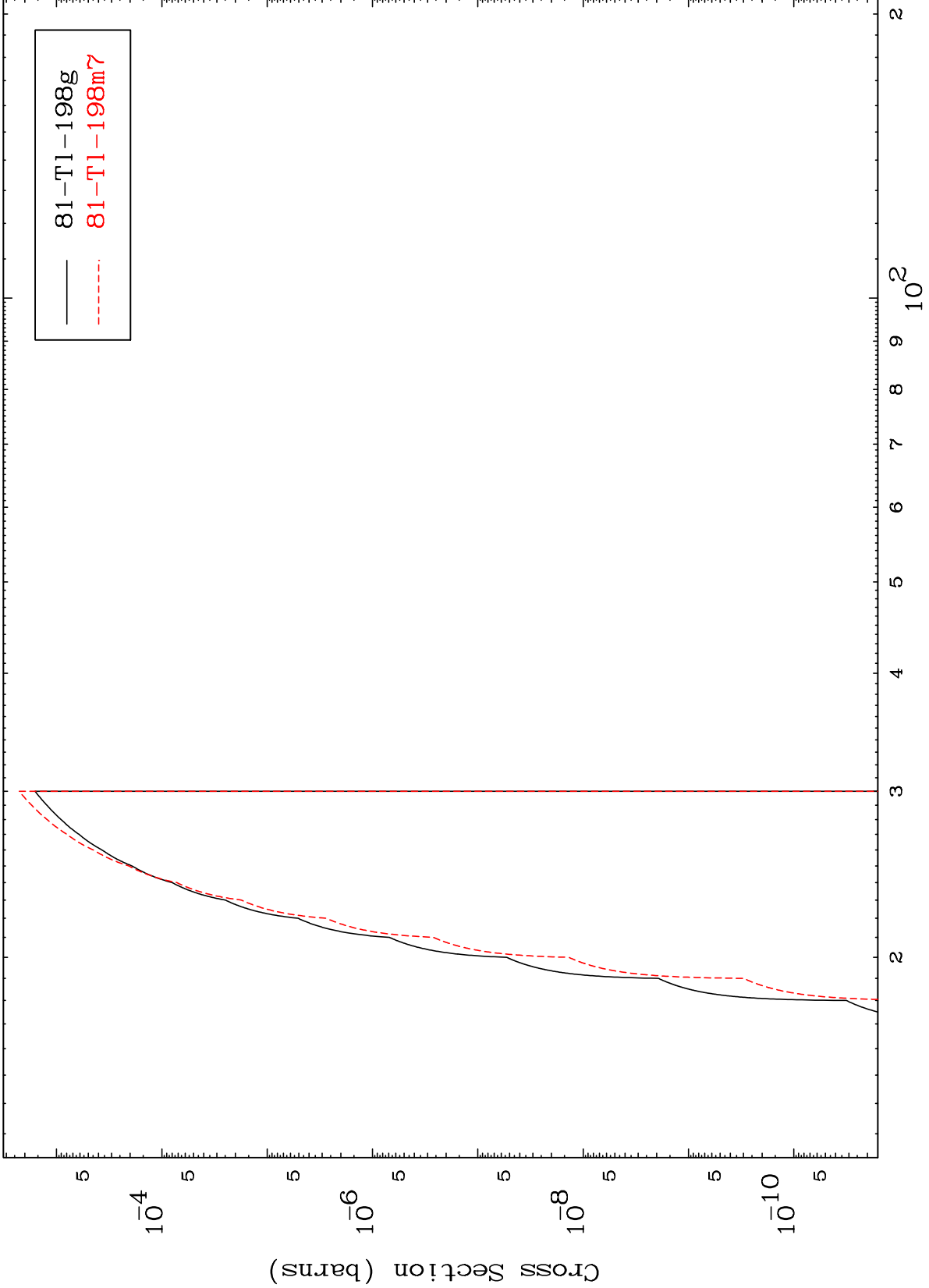
82-Pb-201

MAT 8216

(n,n') t

82-Pb-201

Radionuclide Production Cross Section



142

Incident Energy (MeV)

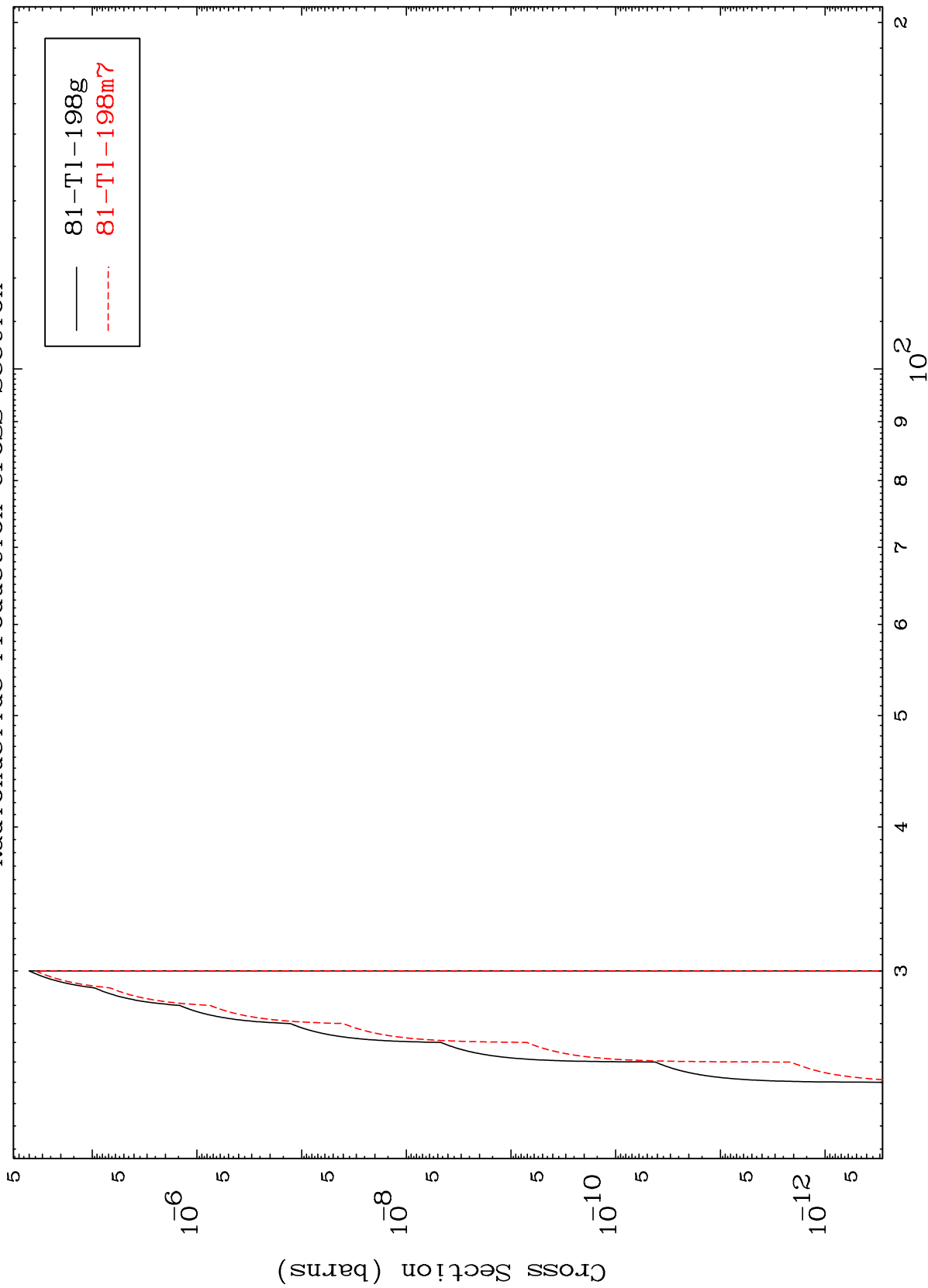
82-Pb-201

MAT 8216

(n,3n) p

82-Pb-201

Radionuclide Production Cross Section



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

143

Incident Energy (MeV)

82-Pb-201

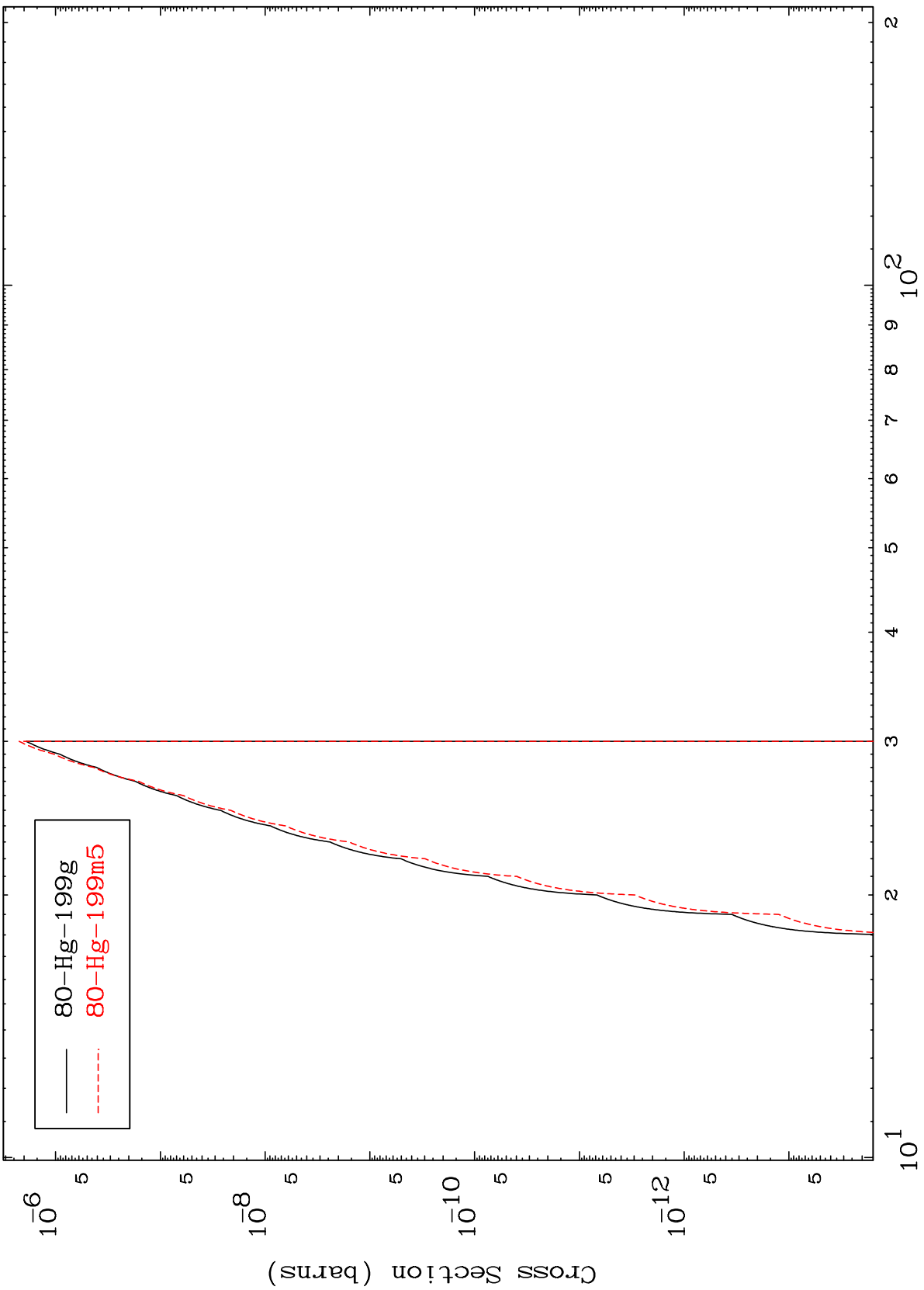


MAT 8216

(n,2n) p

82-Pb-201

Radionuclide Production Cross Section



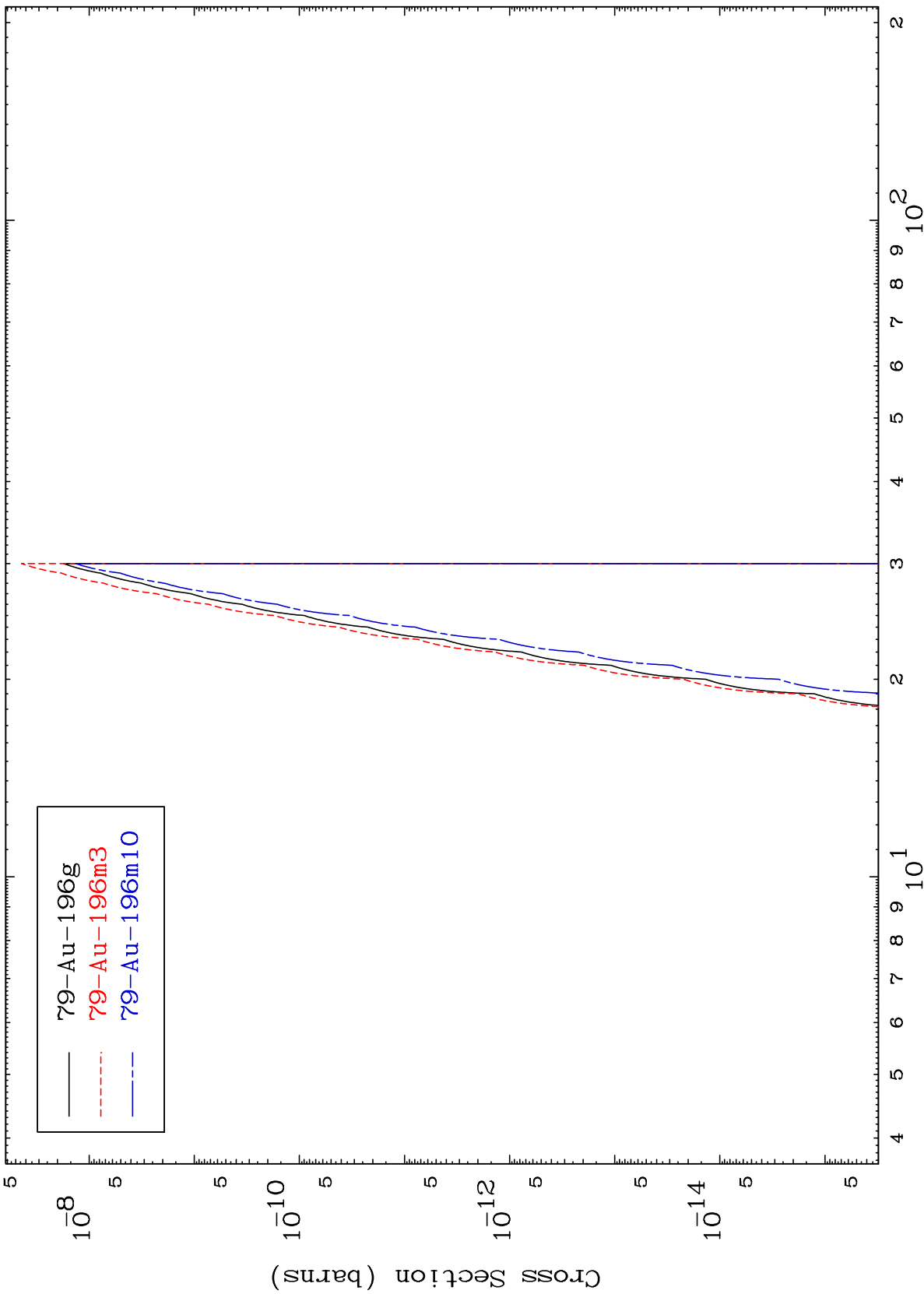
80-Hg-199g  
80-Hg-199m5

Incident Energy (MeV)

82-Pb-201

144

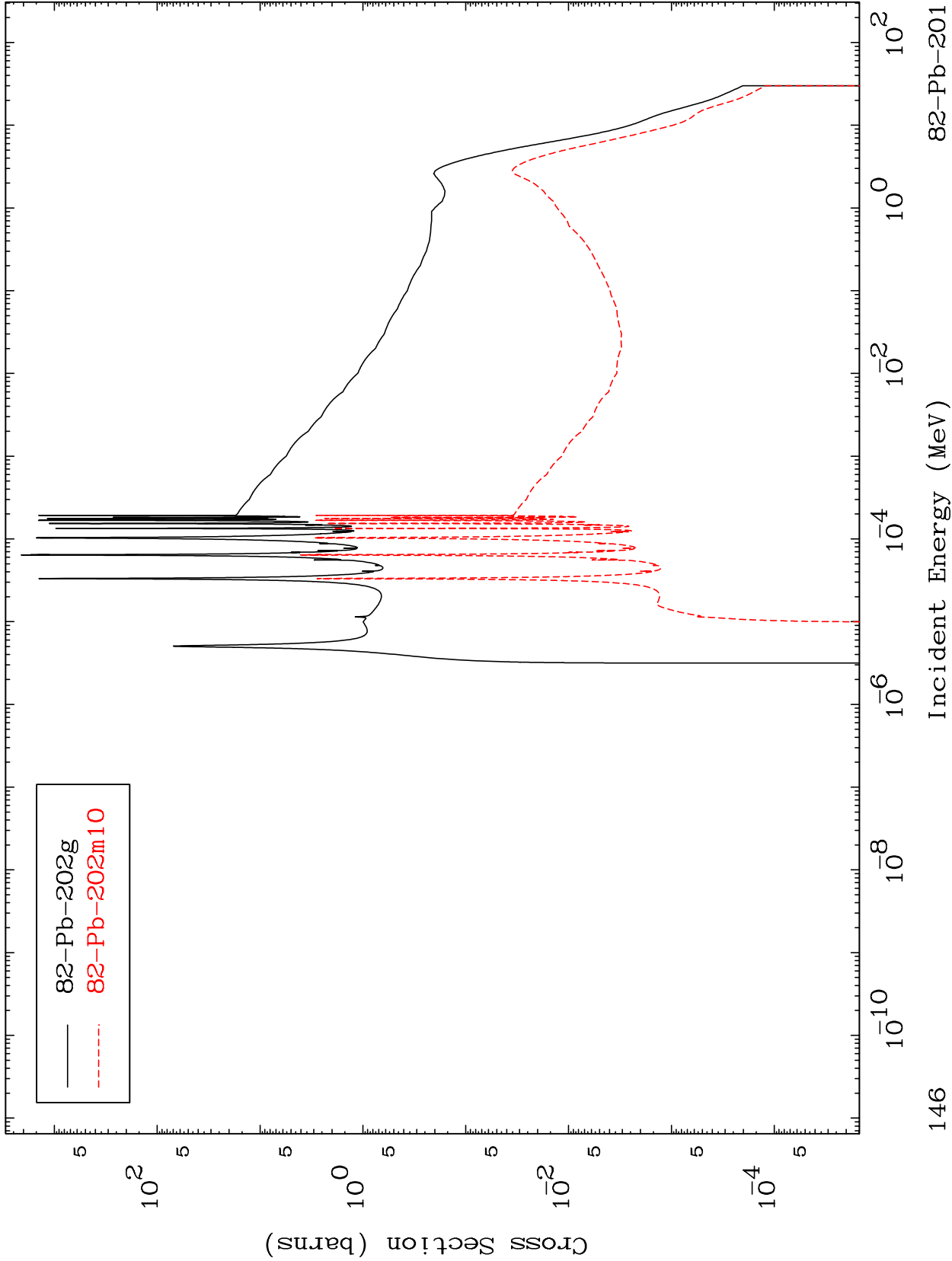
Radionuclide Production Cross Section



MAT 8216

82-Pb-201

(n,  $\gamma$ )  
Radionuclide Production Cross Section



146

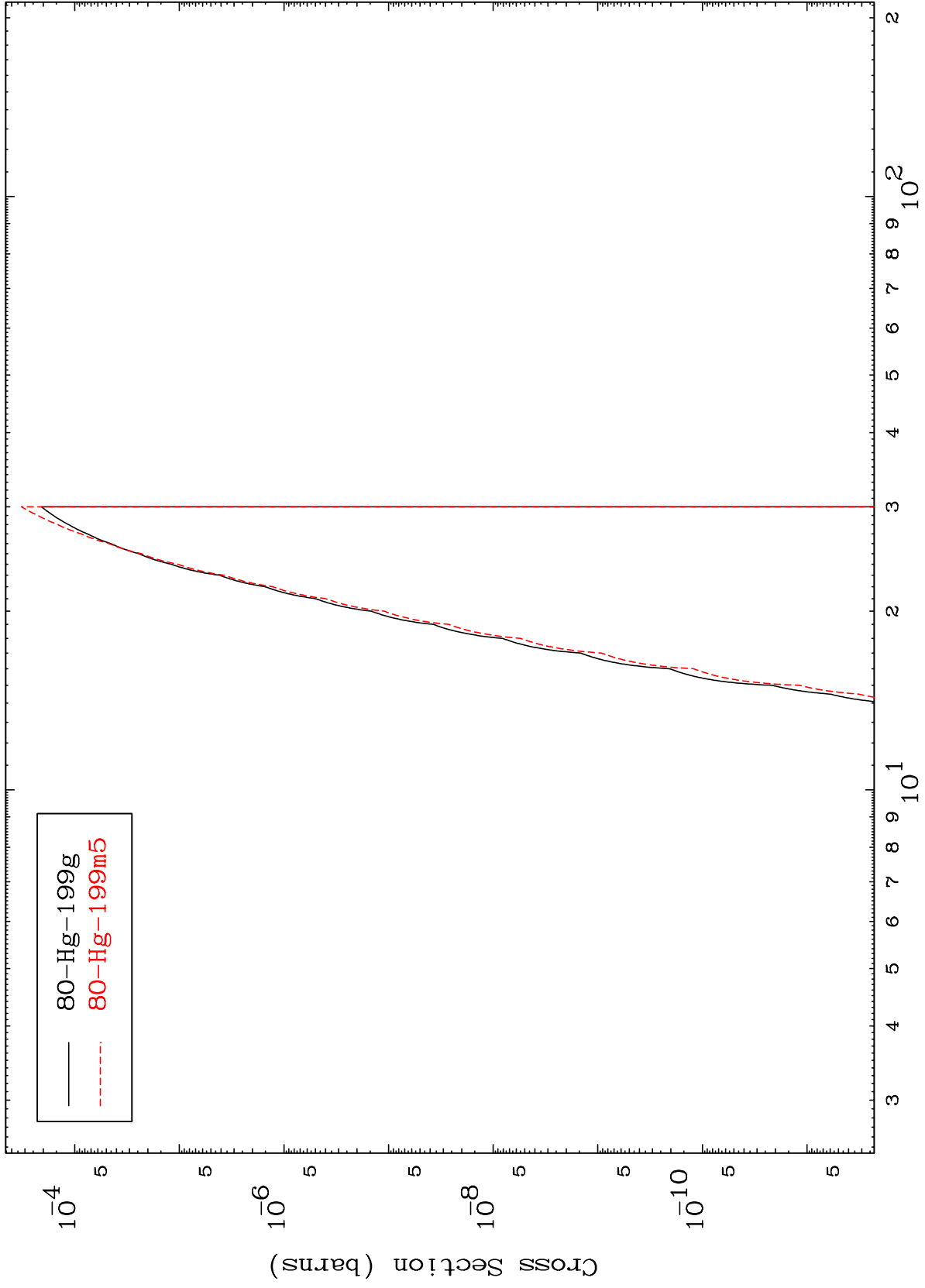
82-Pb-201

MAT 8216

(n,He-3)

82-Pb-201

Radionuclide Production Cross Section



147

Incident Energy (MeV)

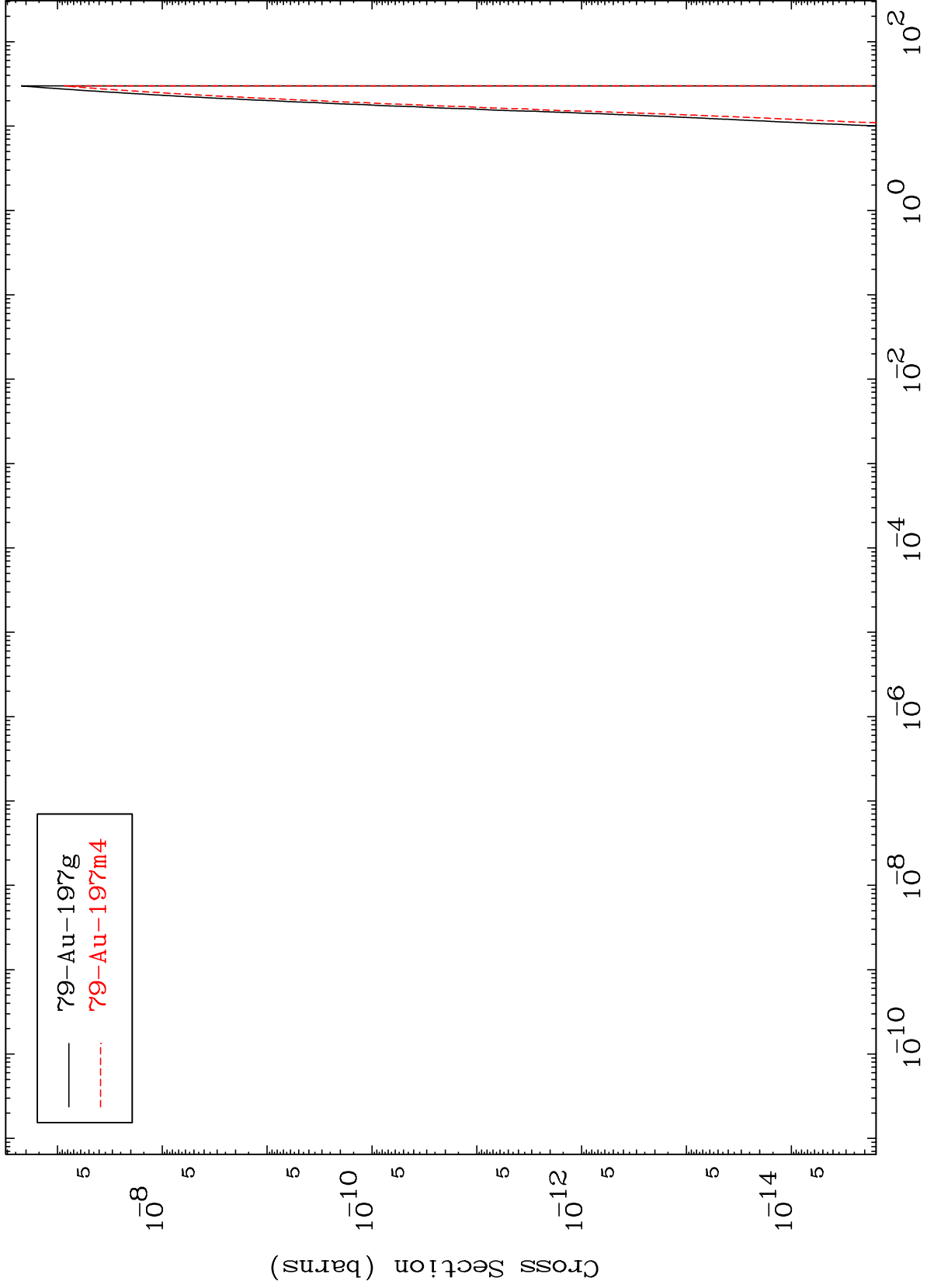
82-Pb-201

MAT 8216

(n,p)  $\alpha$

82-Pb-201

Radionuclide Production Cross Section

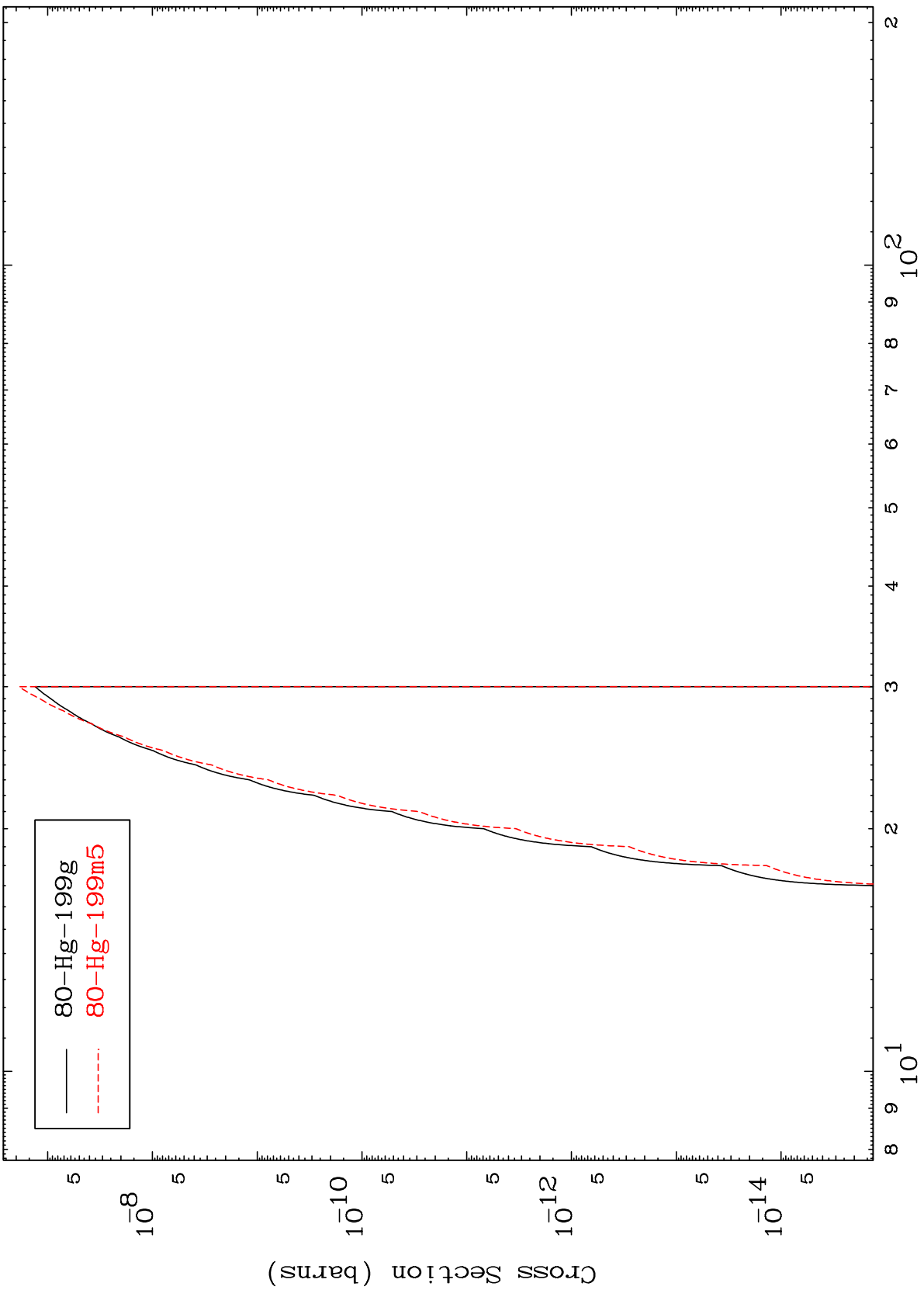


MAT 8216

(n,p) d

82-Pb-201

Radionuclide Production Cross Section



80-Hg-199g  
80-Hg-199m5

149

Incident Energy (MeV)

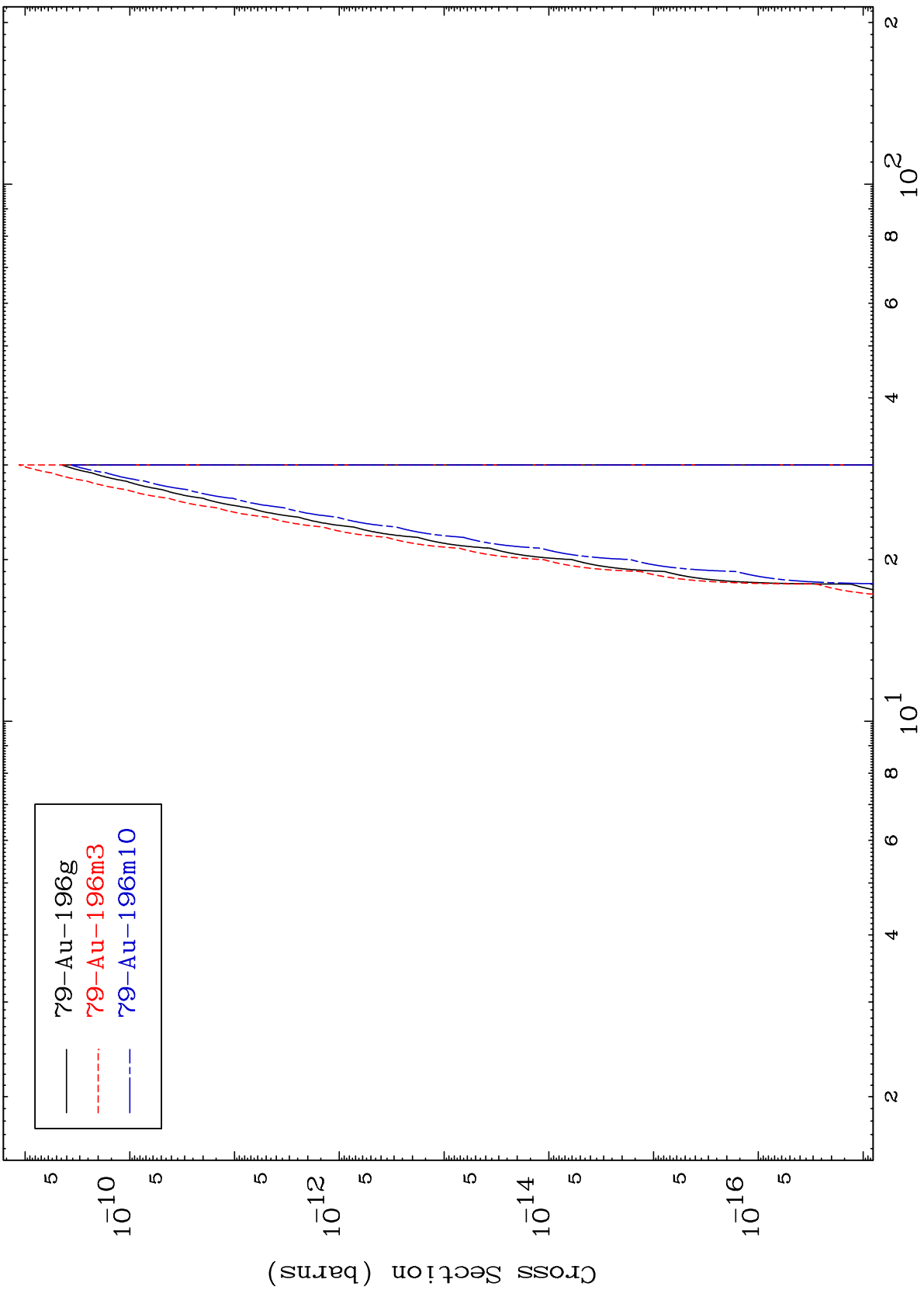
82-Pb-201

MAT 8216

(n,d)  $\alpha$

82-Pb-201

Radionuclide Production Cross Section



150

Incident Energy (MeV)

82-Pb-201