

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

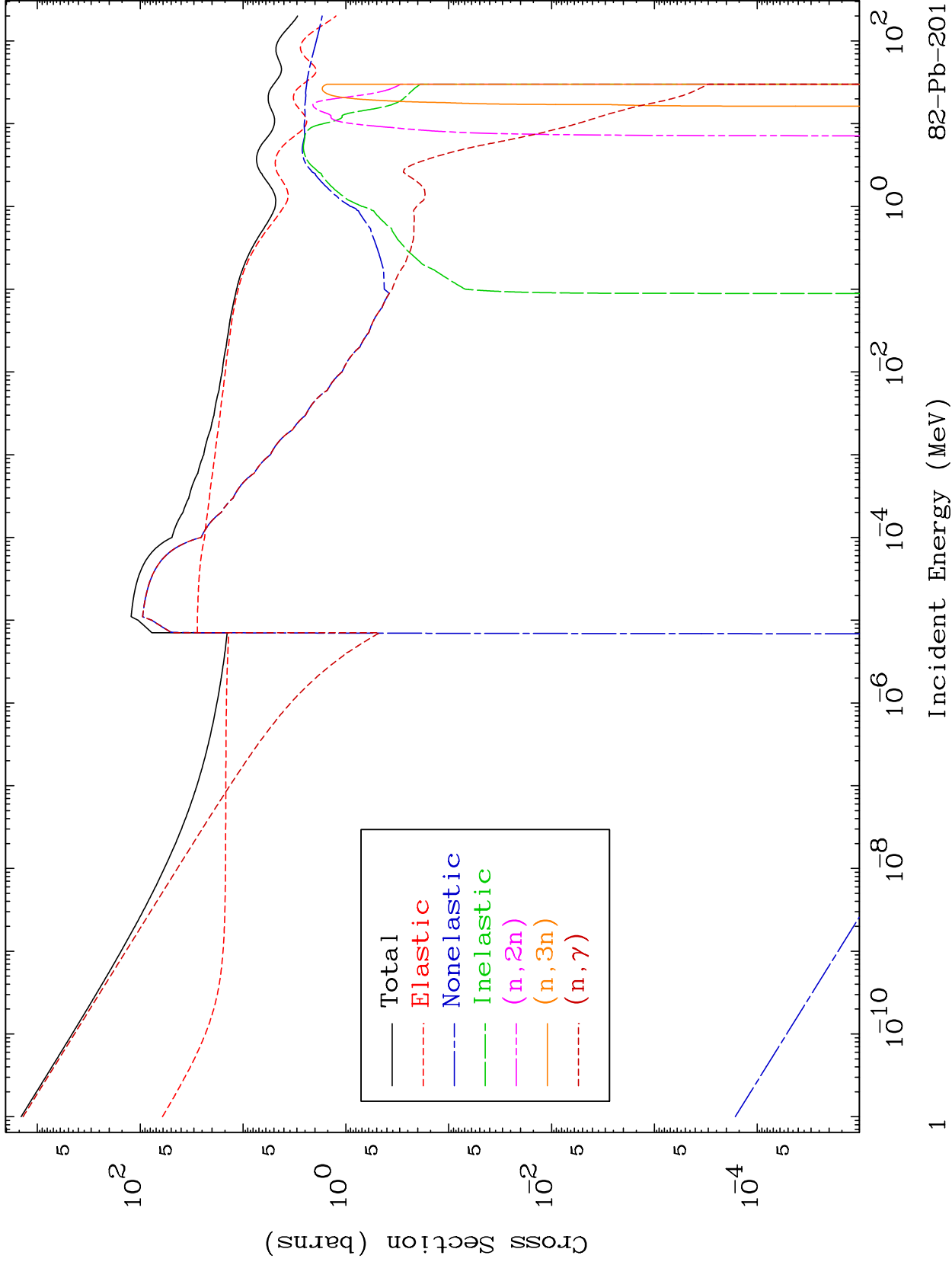
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 8216

Neutron Major
293 Kelvin Cross Sections

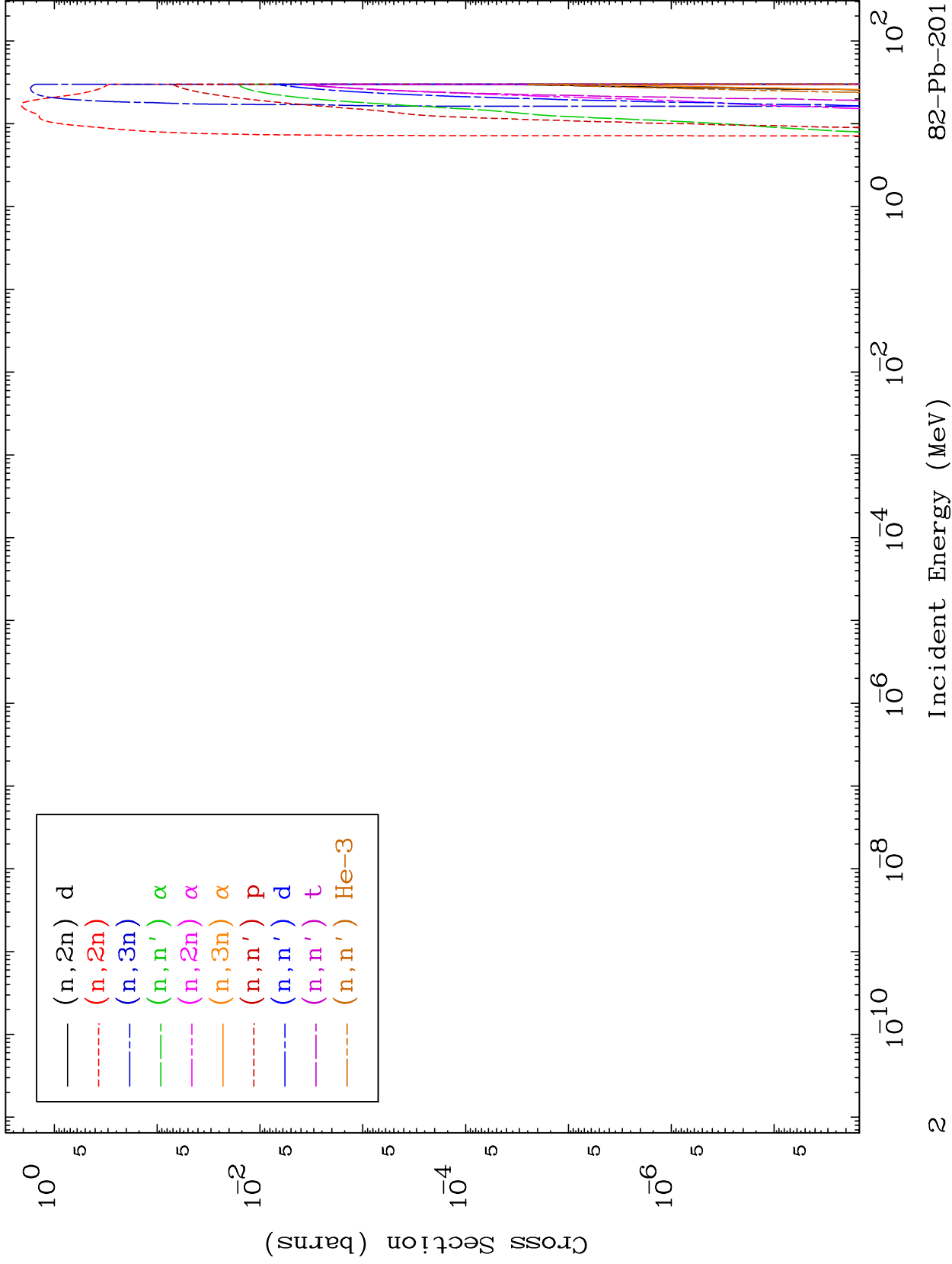
82-Pb-201



MAT 8216

Neutron Absorption
293 Kelvin Cross Sections

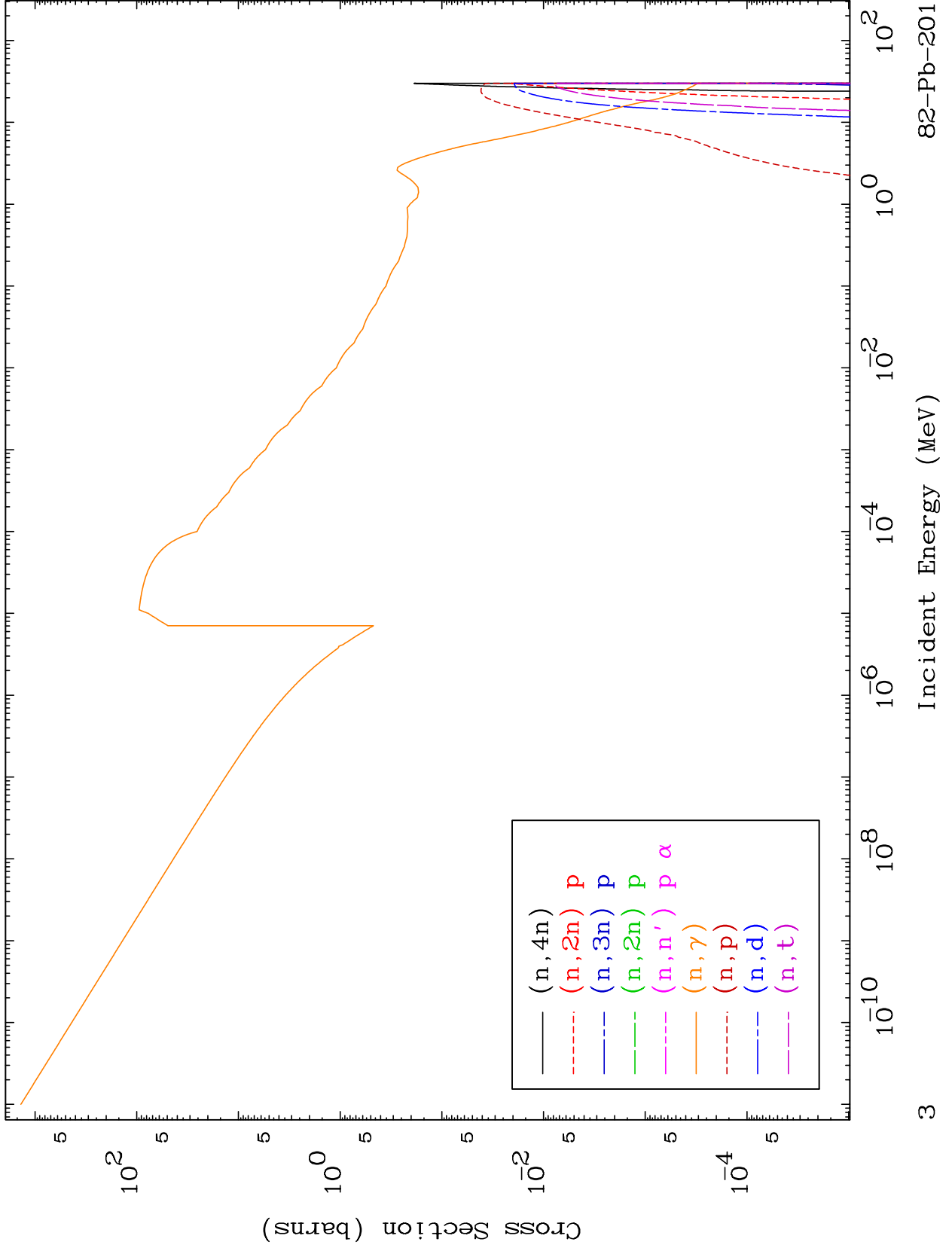
82-Pb-201



MAT 8216

Neutron Absorption
293 Kelvin Cross Sections

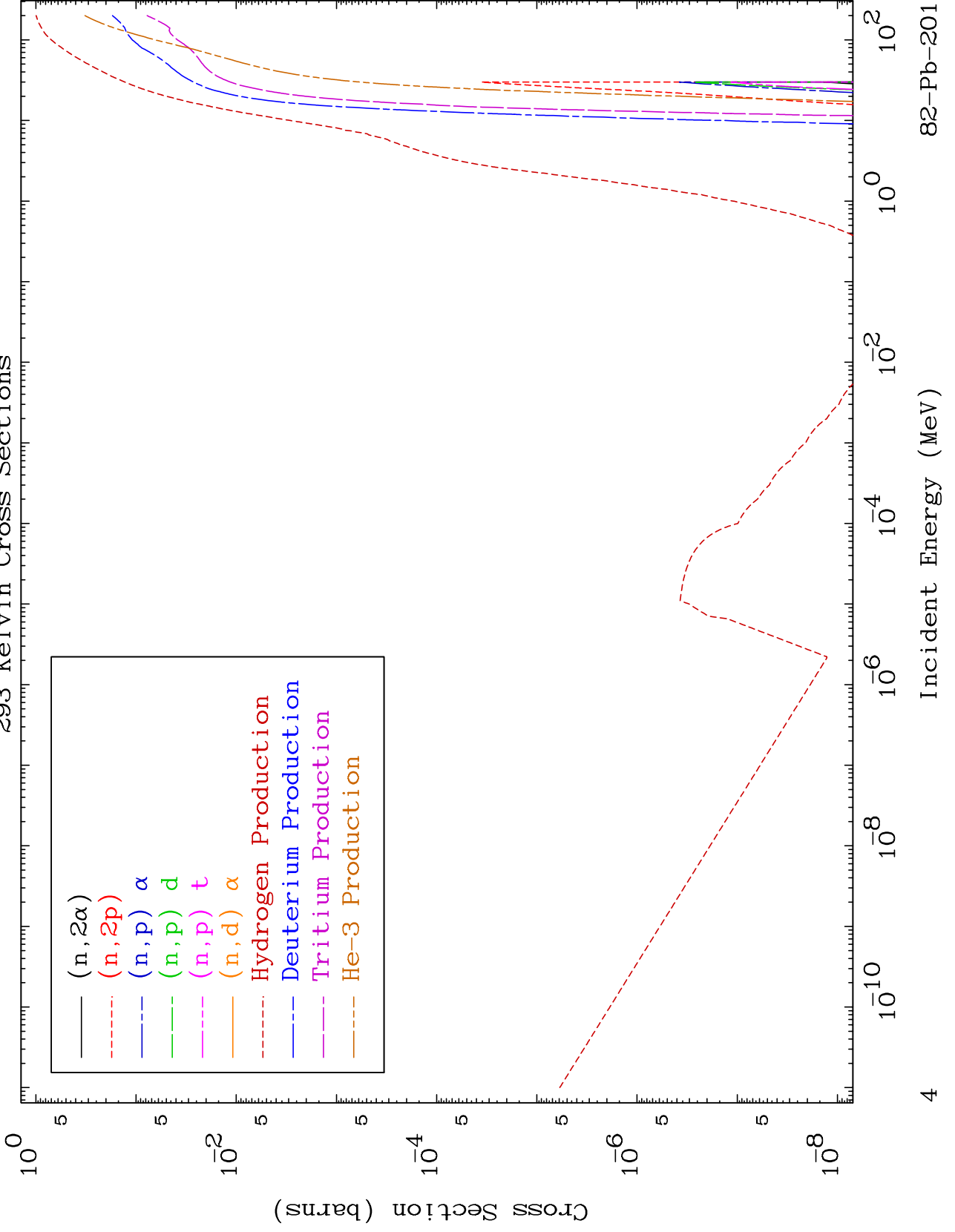
82-Pb-201



MAT 8216

Neutron Absorption
293 Kelvin Cross Sections

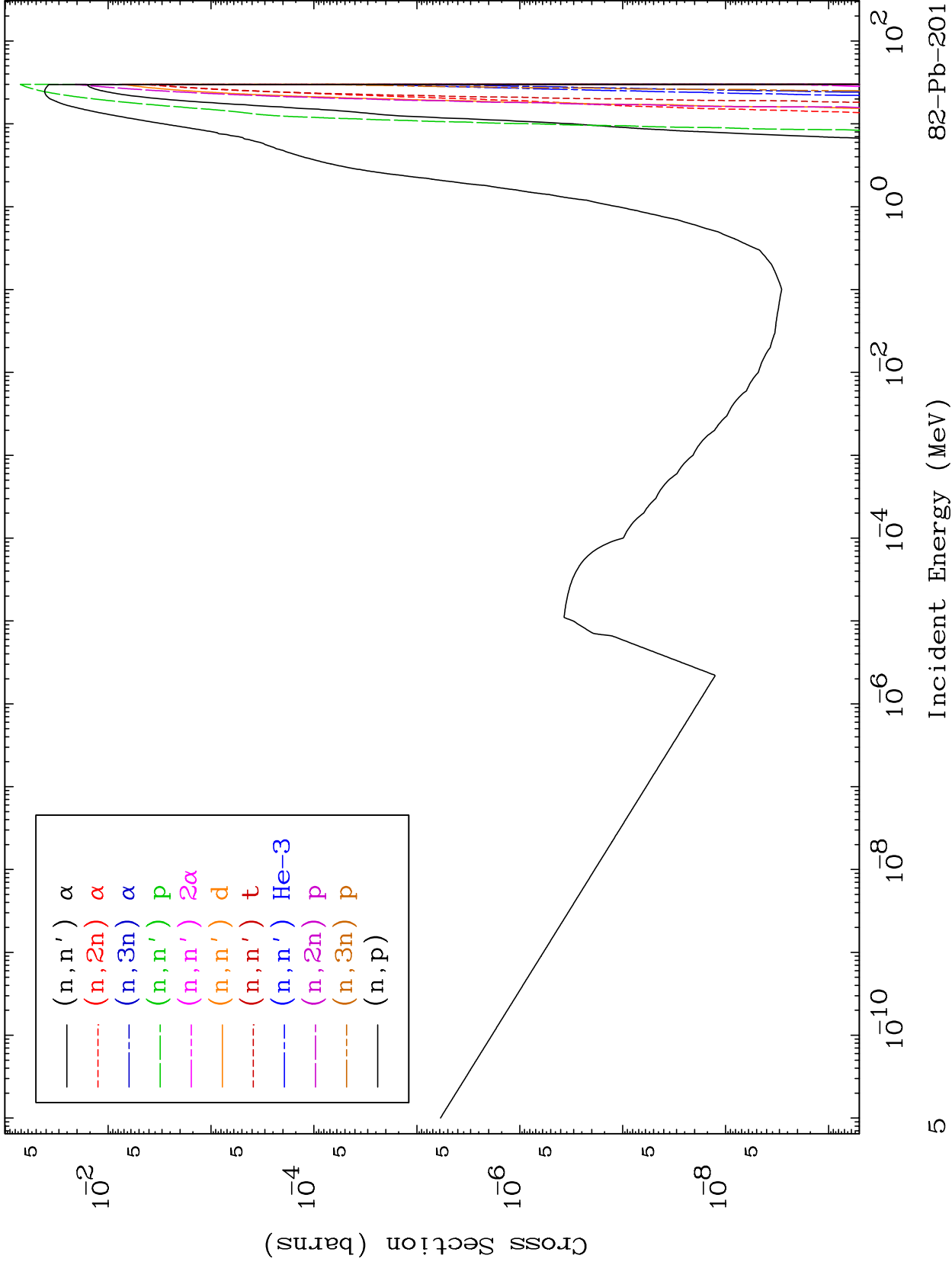
82-Pb-201



MAT 8216

Charged Particle
293 Kelvin Cross Sections

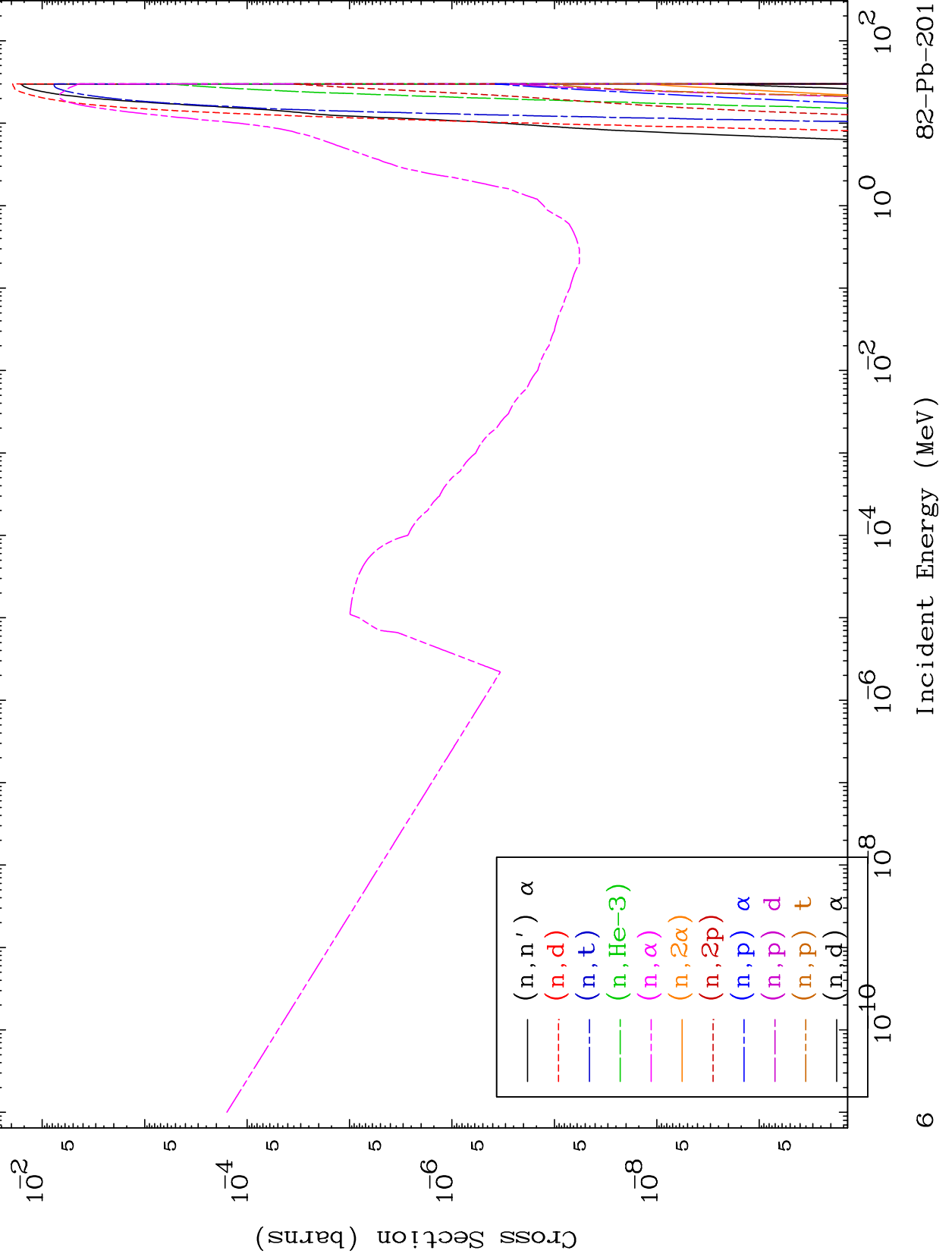
82-Pb-201



MAT 8216

Charged Particle
293 Kelvin Cross Sections

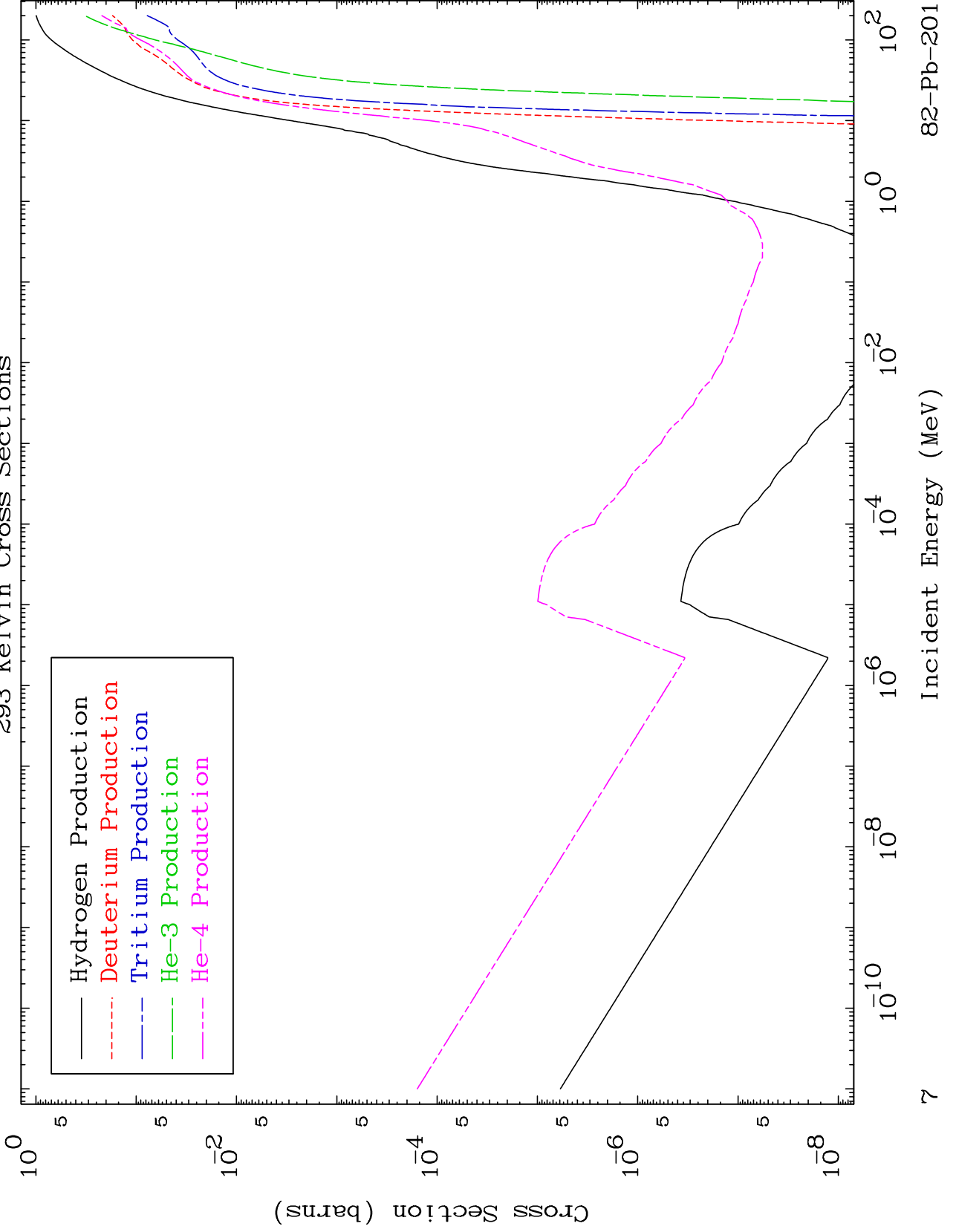
82-Pb-201



MAT 8216

Particle Production
293 Kelvin Cross Sections

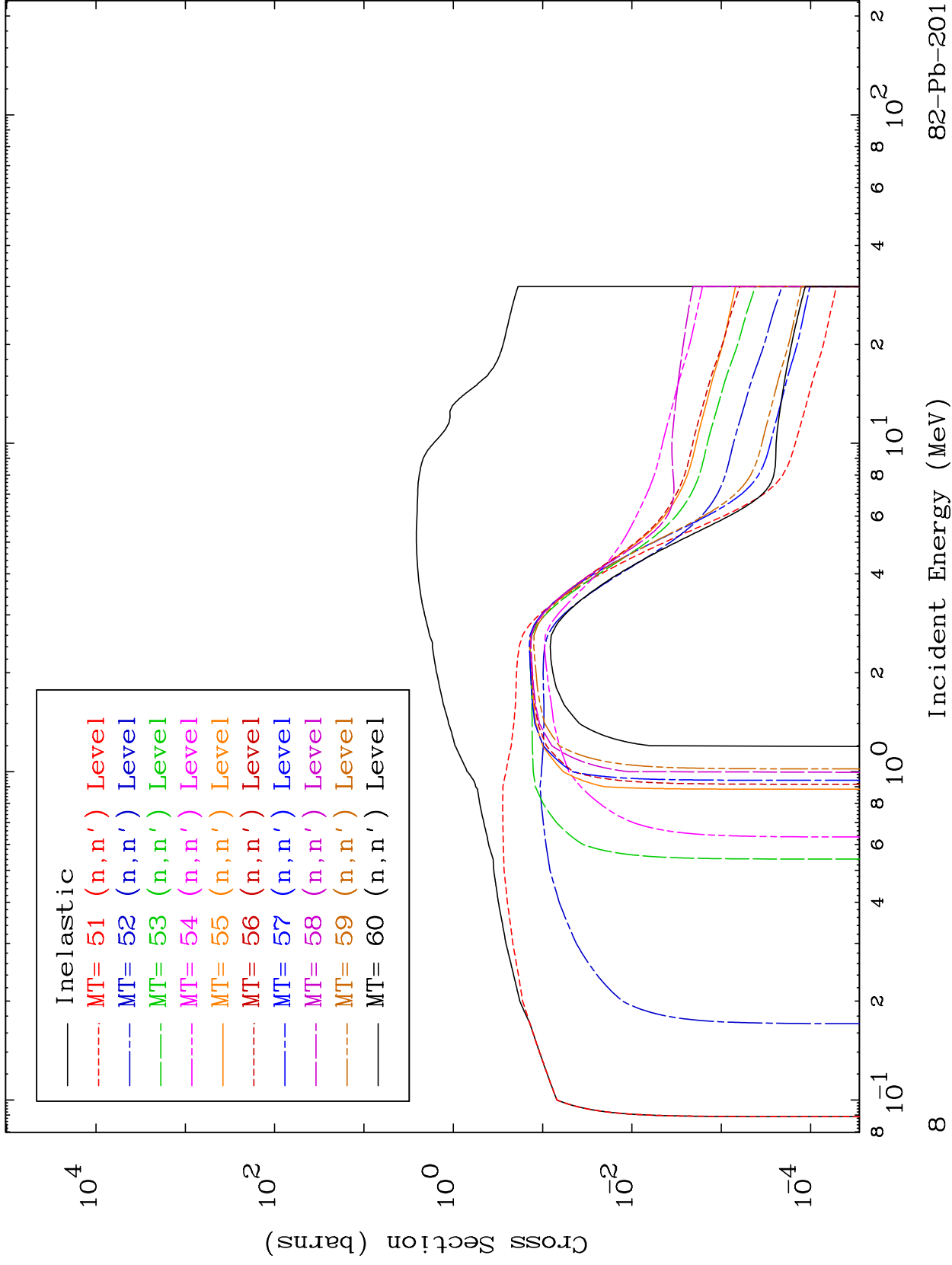
82-Pb-201



MAT 8216

(n,n') Levels
293 Kelvin Cross Sections

82-Pb-201



8

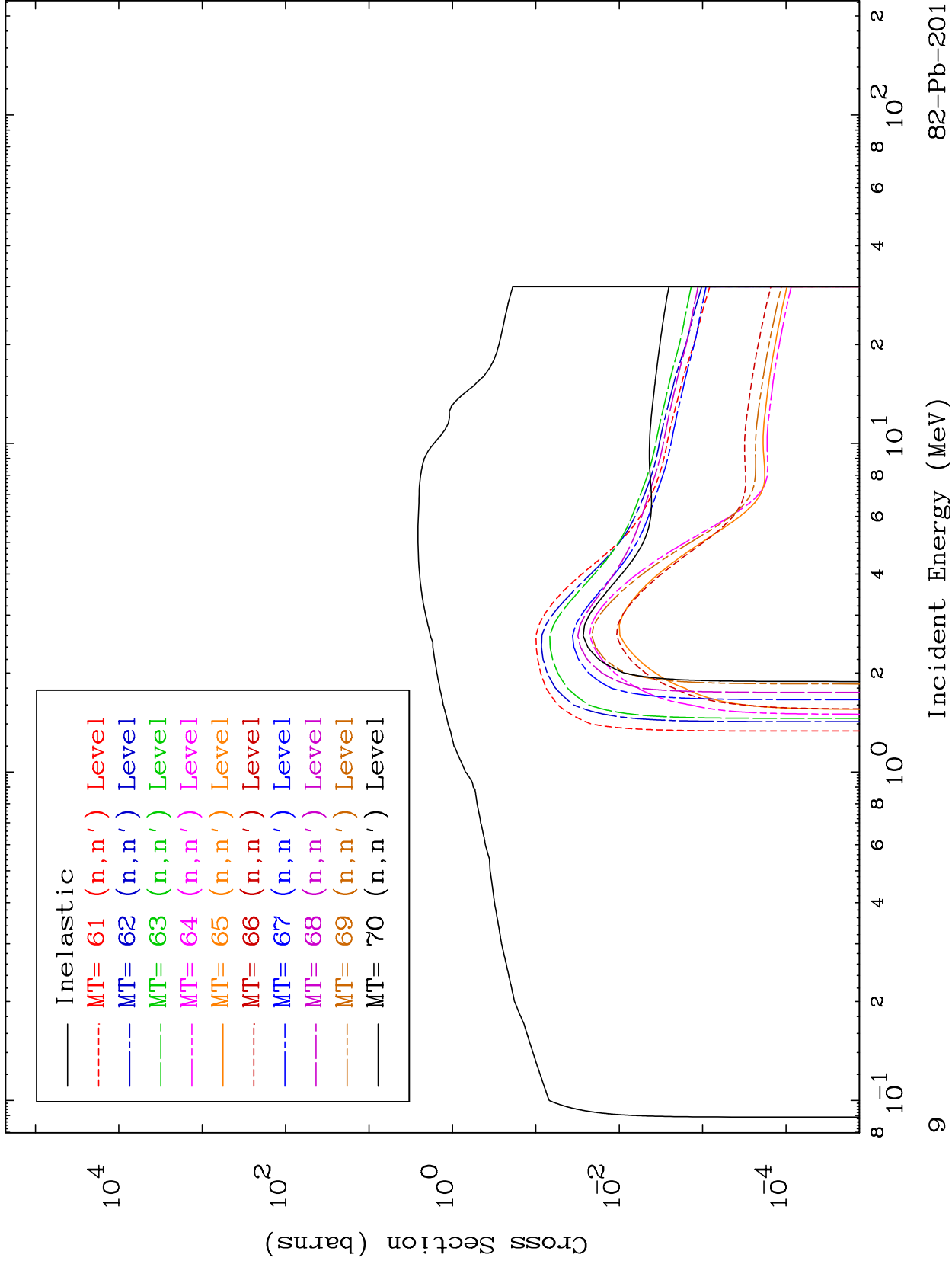
Incident Energy (MeV)

82-Pb-201

MAT 8216

(n,n') Levels
293 Kelvin Cross Sections

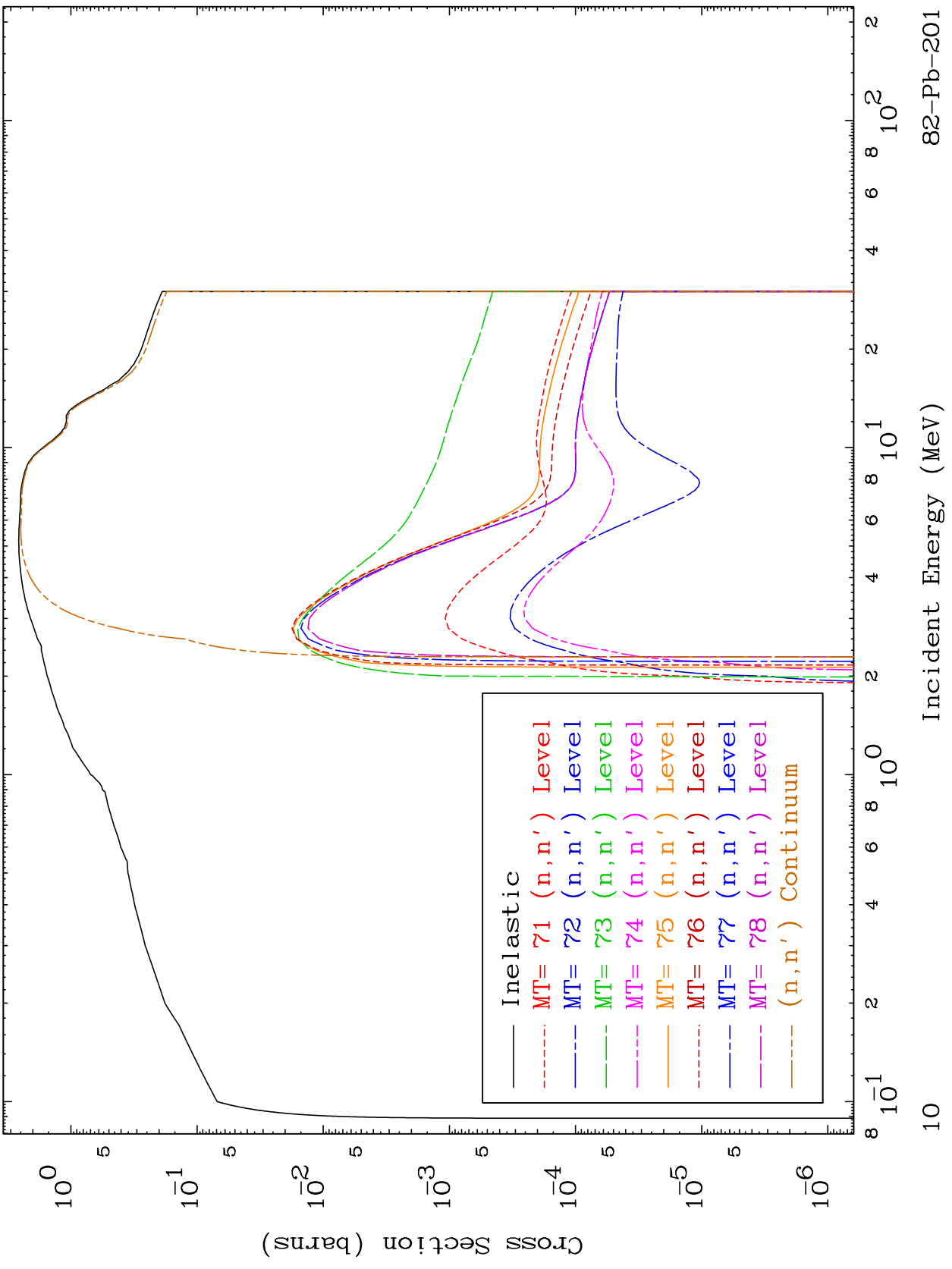
82-Pb-201



MAT 8216

82-Pb-201

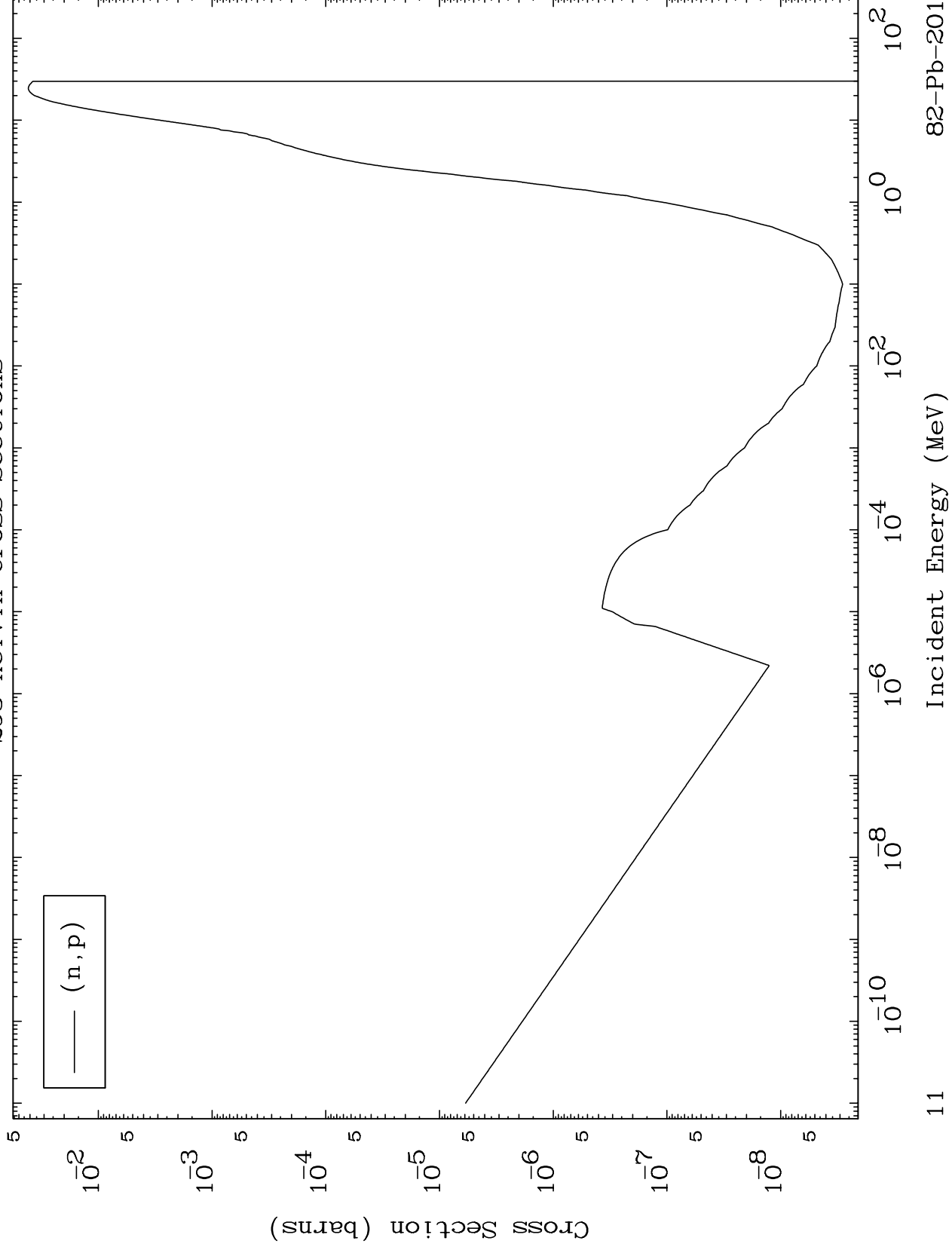
293 Kelvin Cross Sections
(n,n') Levels



MAT 8216

(n,p) Levels
293 Kelvin Cross Sections

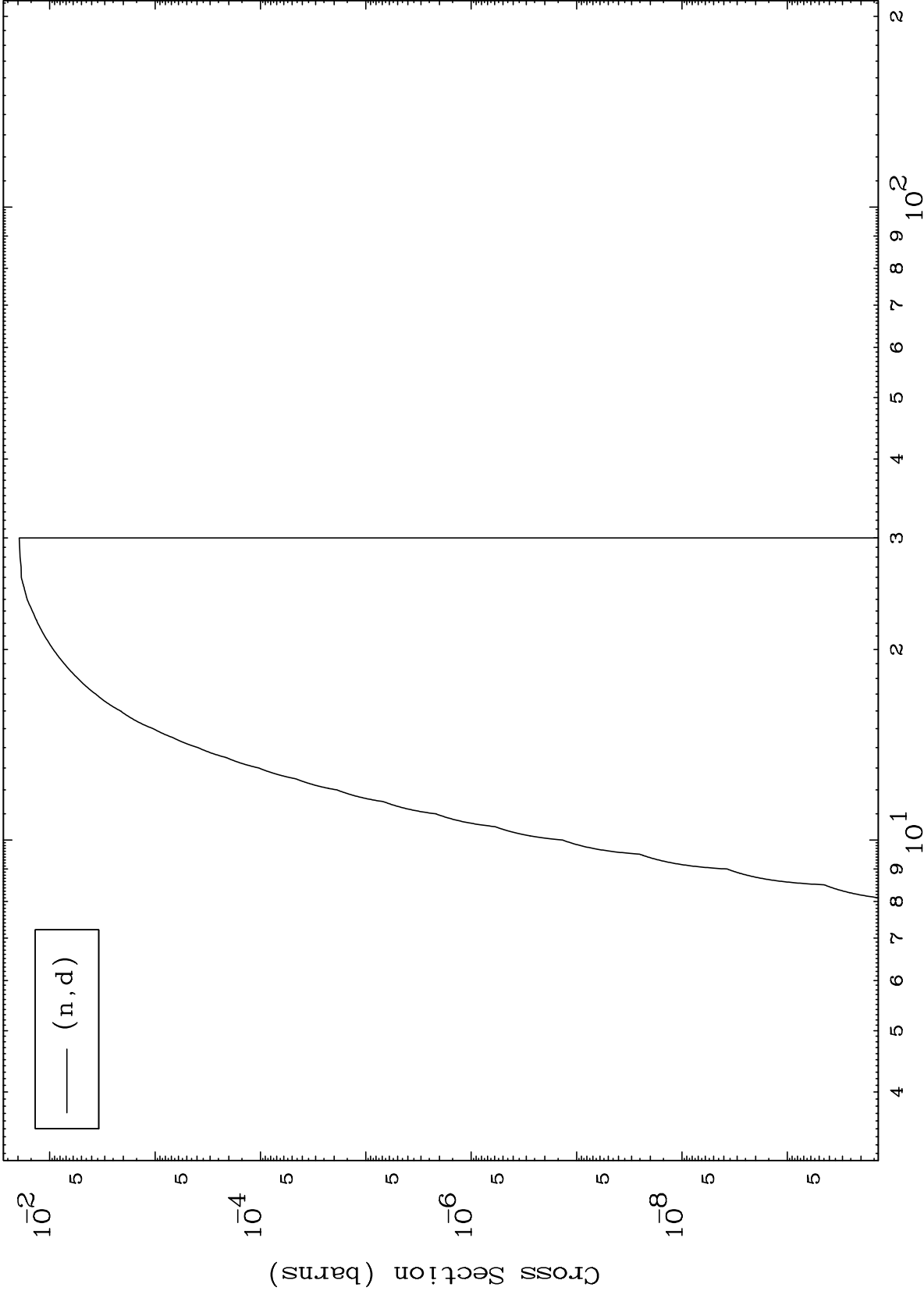
82-Pb-201



MAT 8216

(n,d) Levels
293 Kelvin Cross Sections

82-Pb-201



12

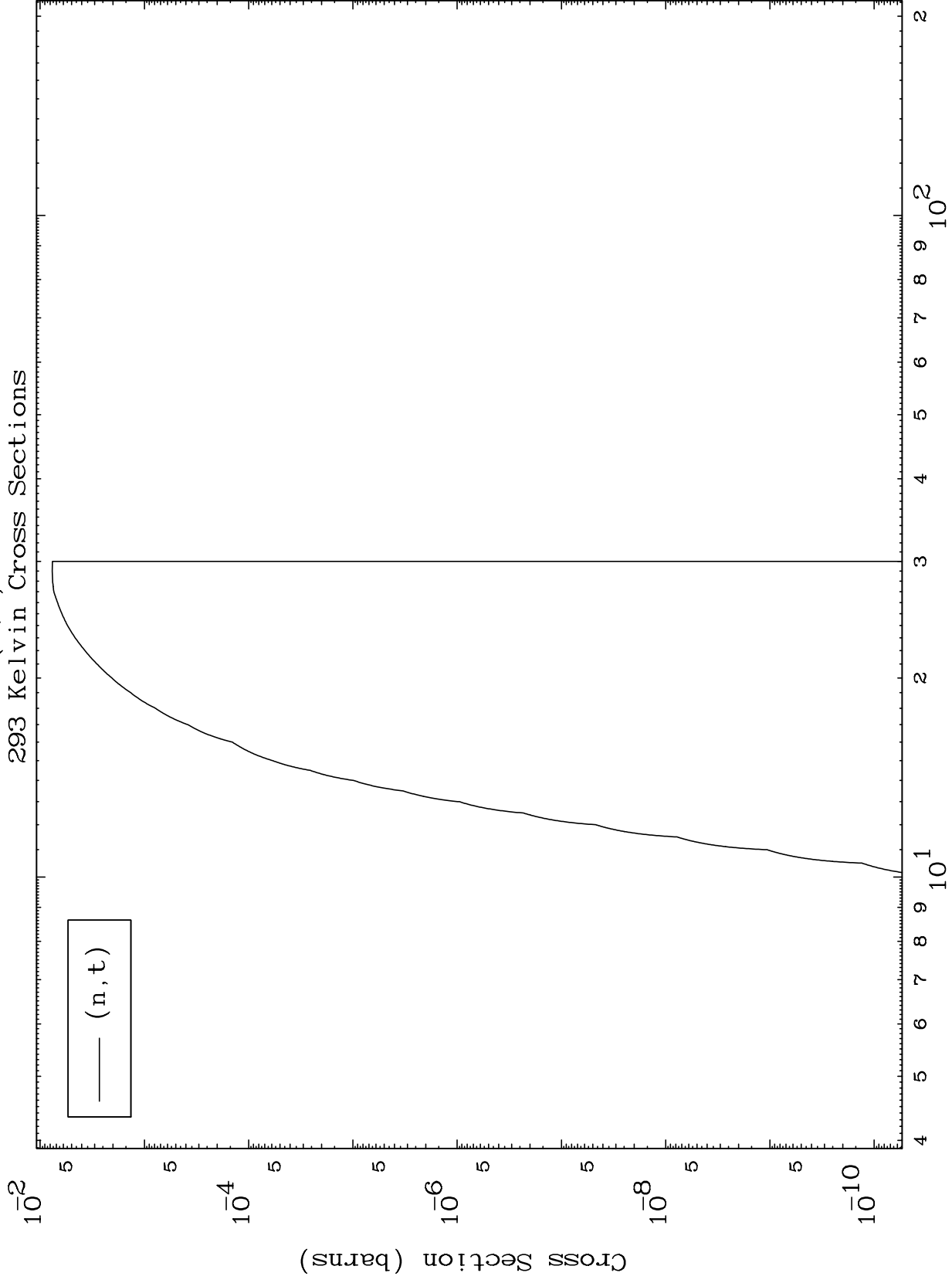
Incident Energy (MeV)

82-Pb-201

MAT 8216

(n,t) Levels
293 Kelvin Cross Sections

82-Pb-201



(n,t)

Incident Energy (MeV)

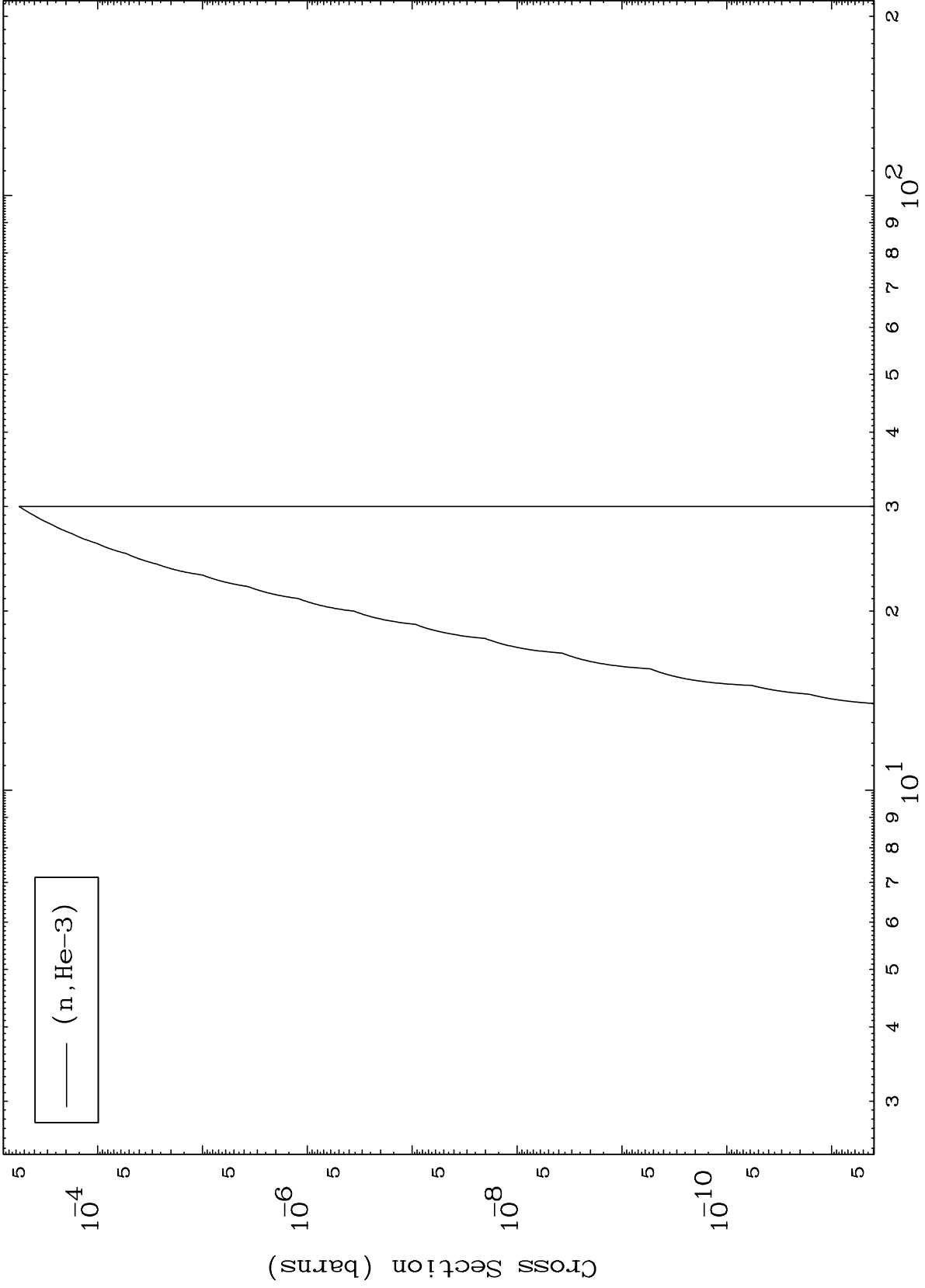
82-Pb-201

13

MAT 8216

(n,He3) Levels
293 Kelvin Cross Sections

82-Pb-201



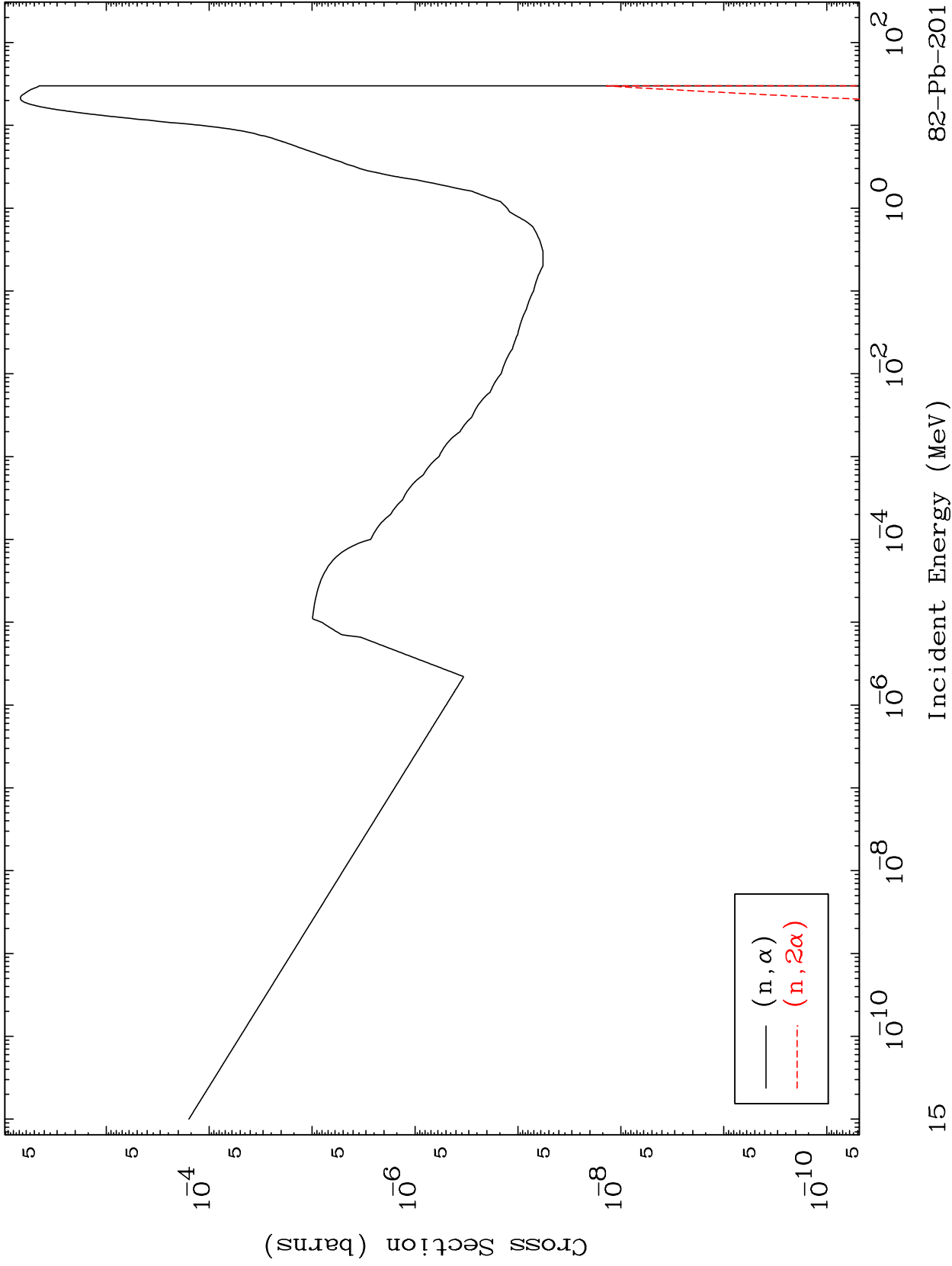
82-Pb-201

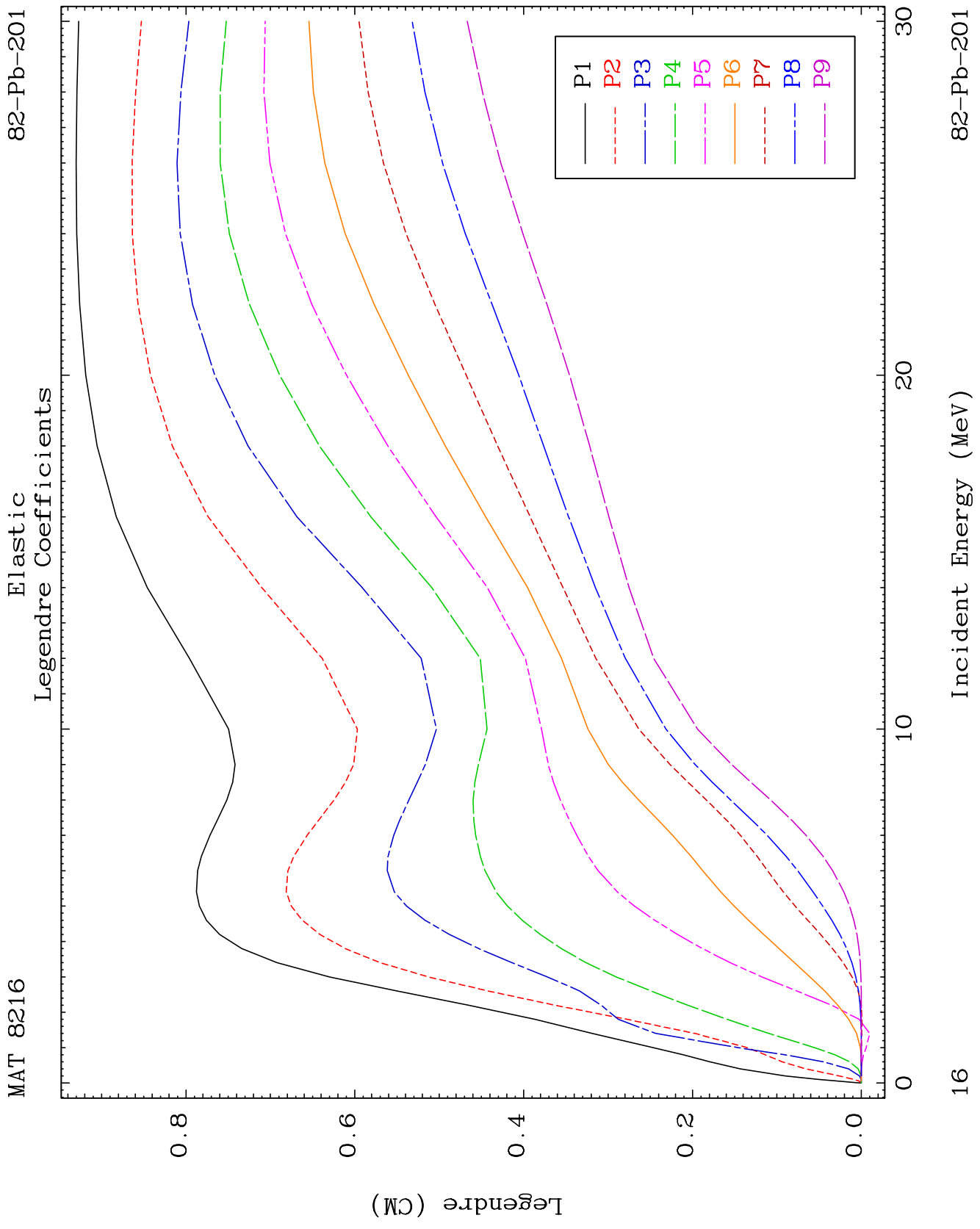
14

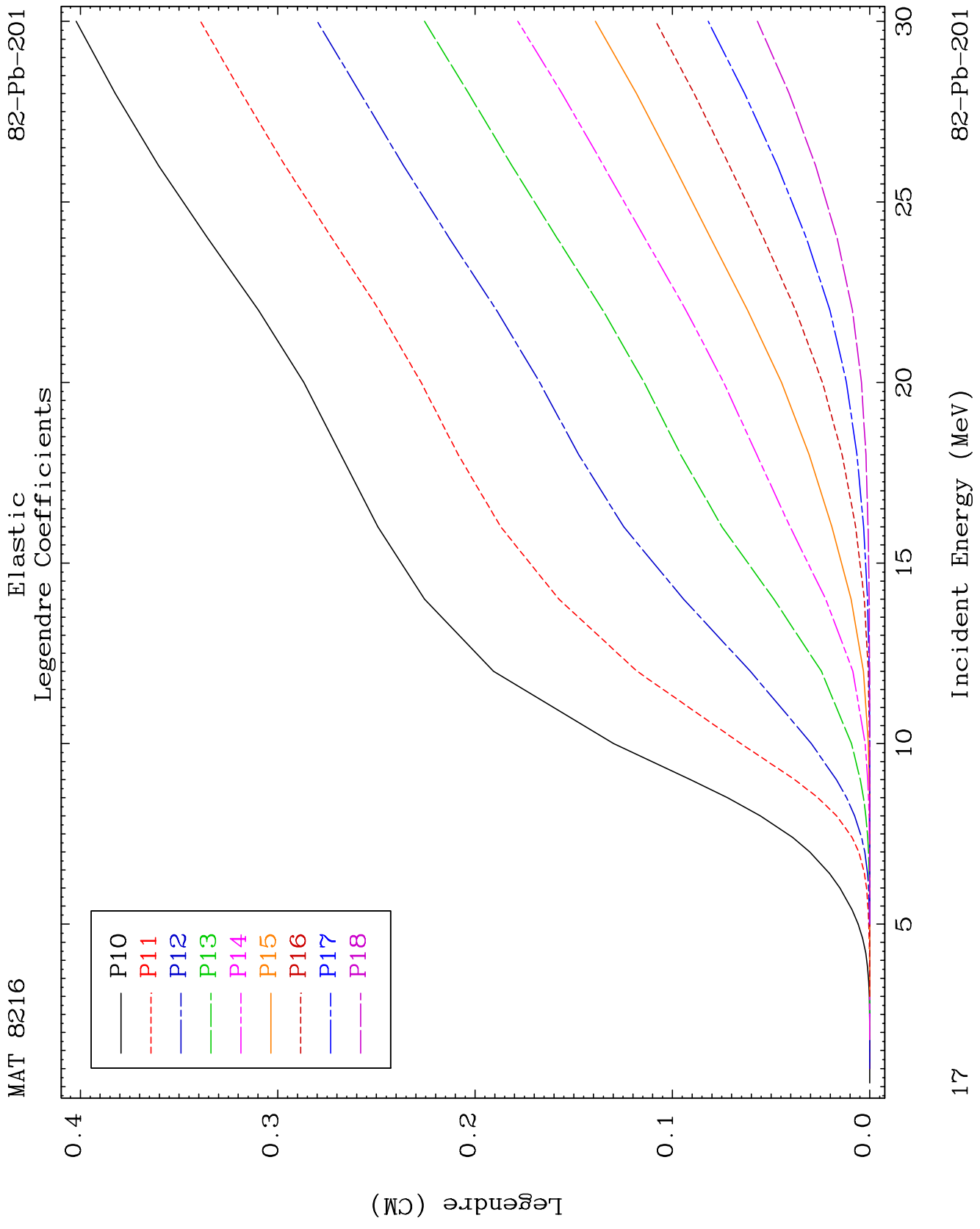
MAT 8216

(n,α) Levels
293 Kelvin Cross Sections

82-Pb-201



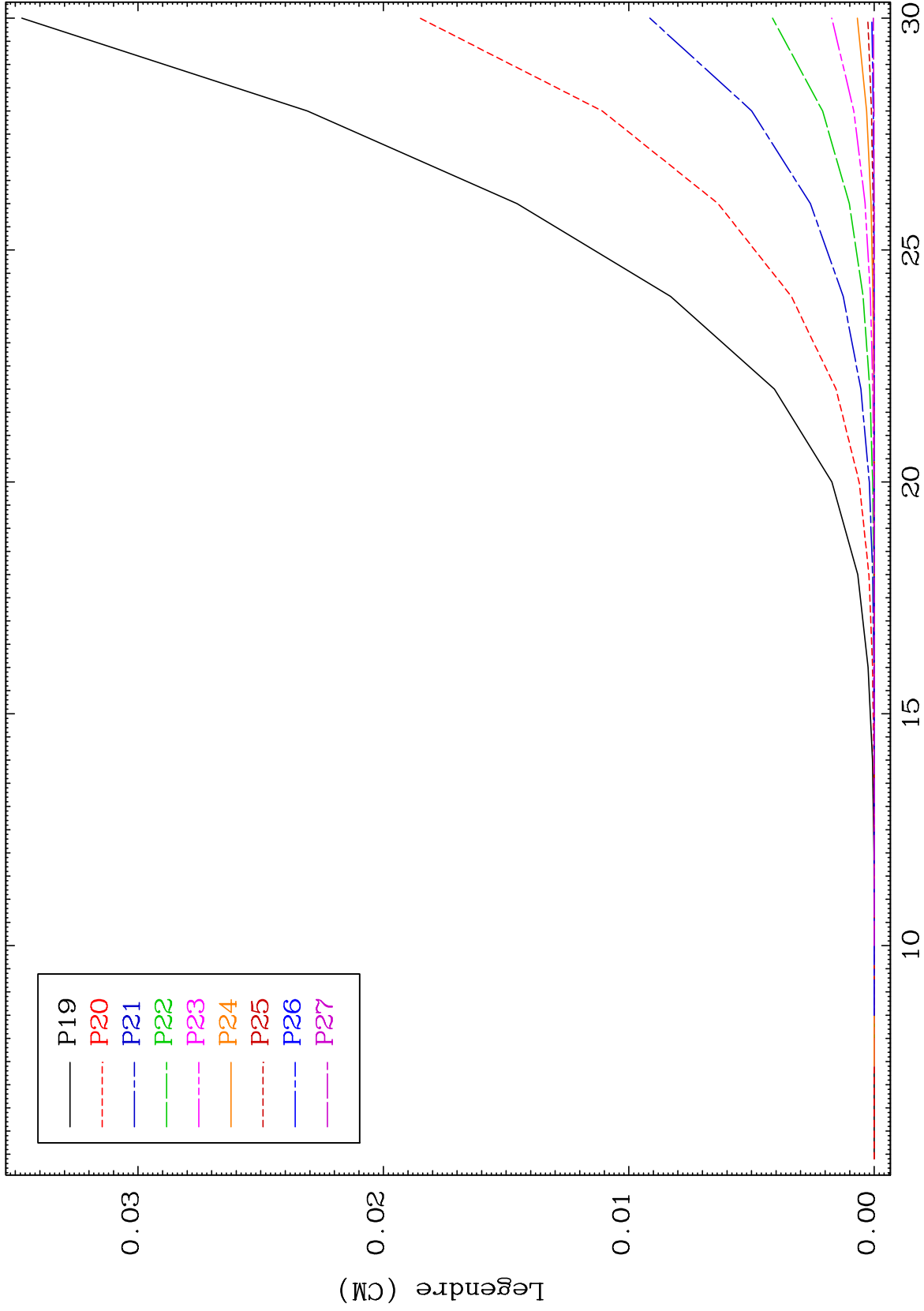




MAT 8216

Elastic
Legendre Coefficients

82-Pb-201



18

Incident Energy (MeV)

82-Pb-201

30

25

20

15

10

Legendre (CM)

0.03

0.02

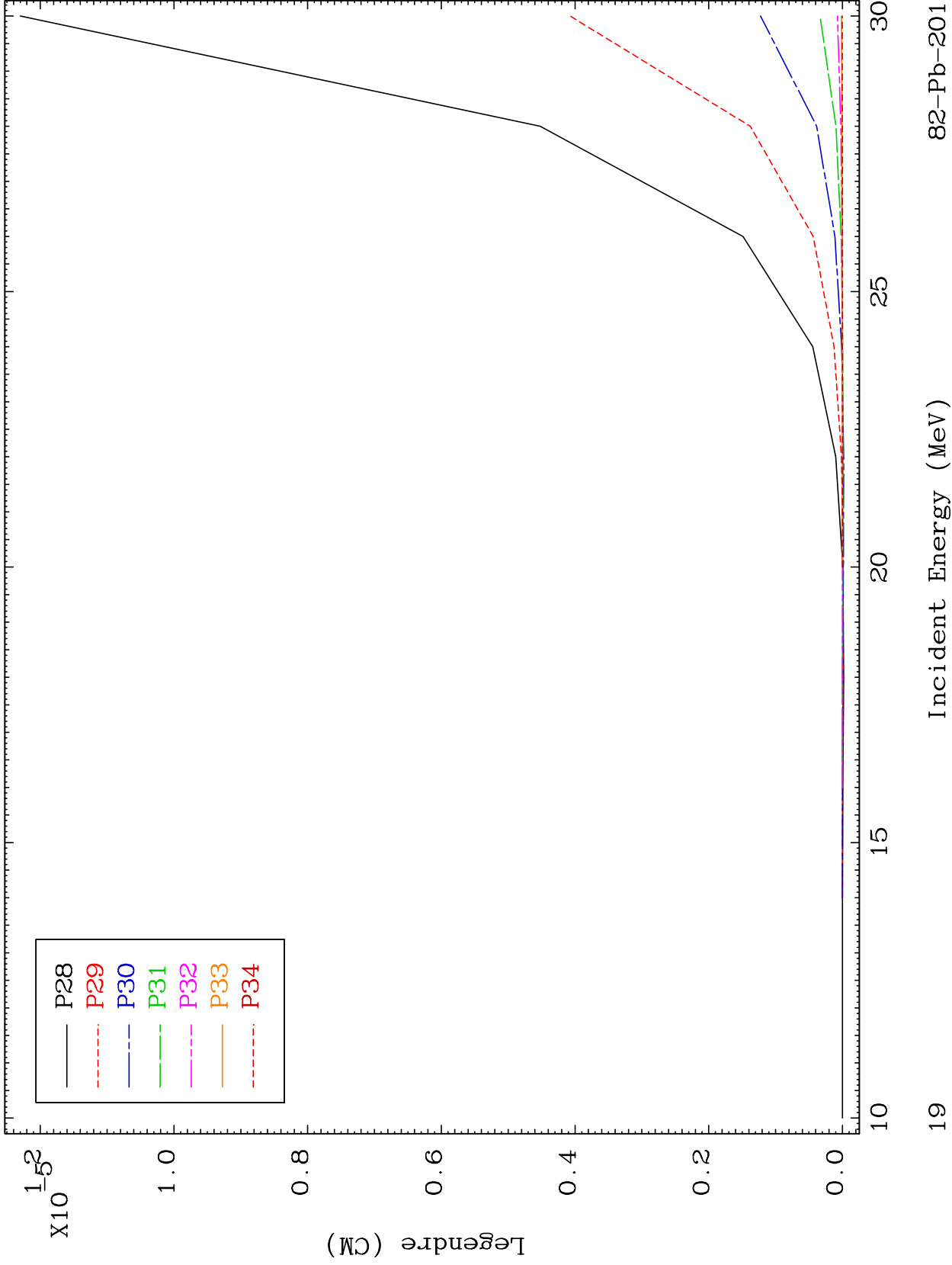
0.01

0.00

MAT 8216

Elastic
Legendre Coefficients

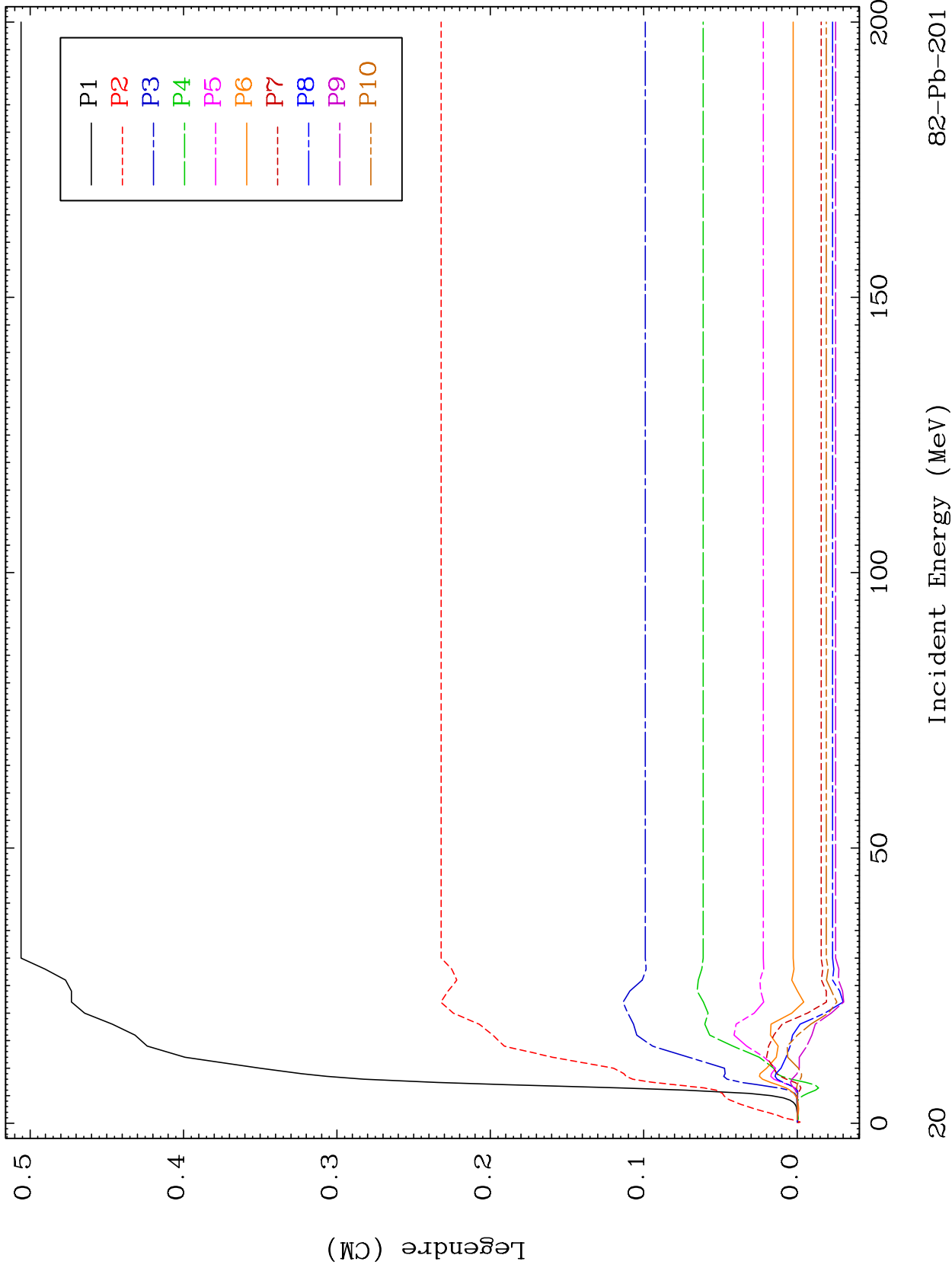
82-Pb-201



MAT 8216

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

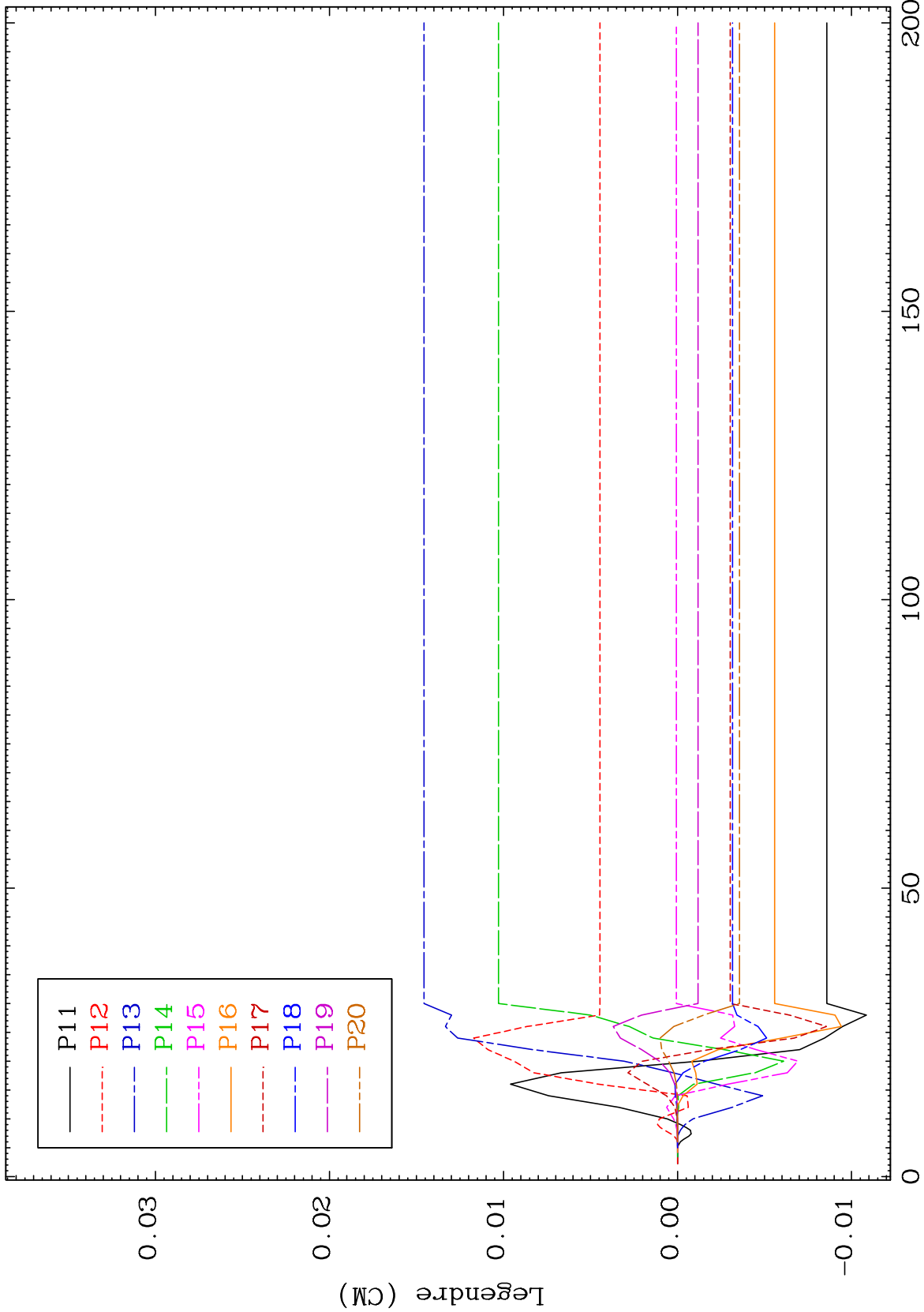
82-Pb-201



MAT 8216

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

82-Pb-201



82-Pb-201

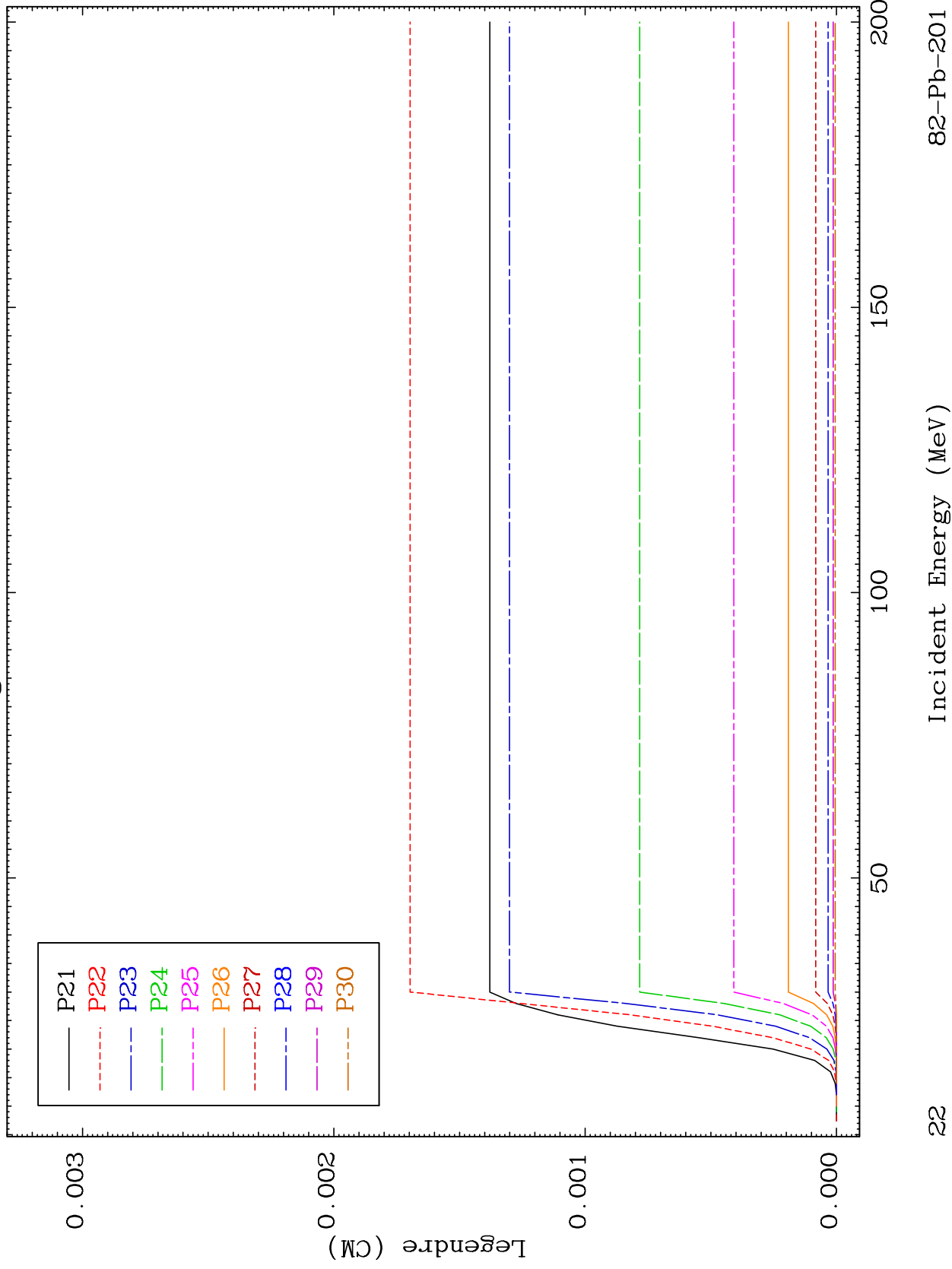
Incident Energy (MeV)

21

MAT 8216

82-Pb-201

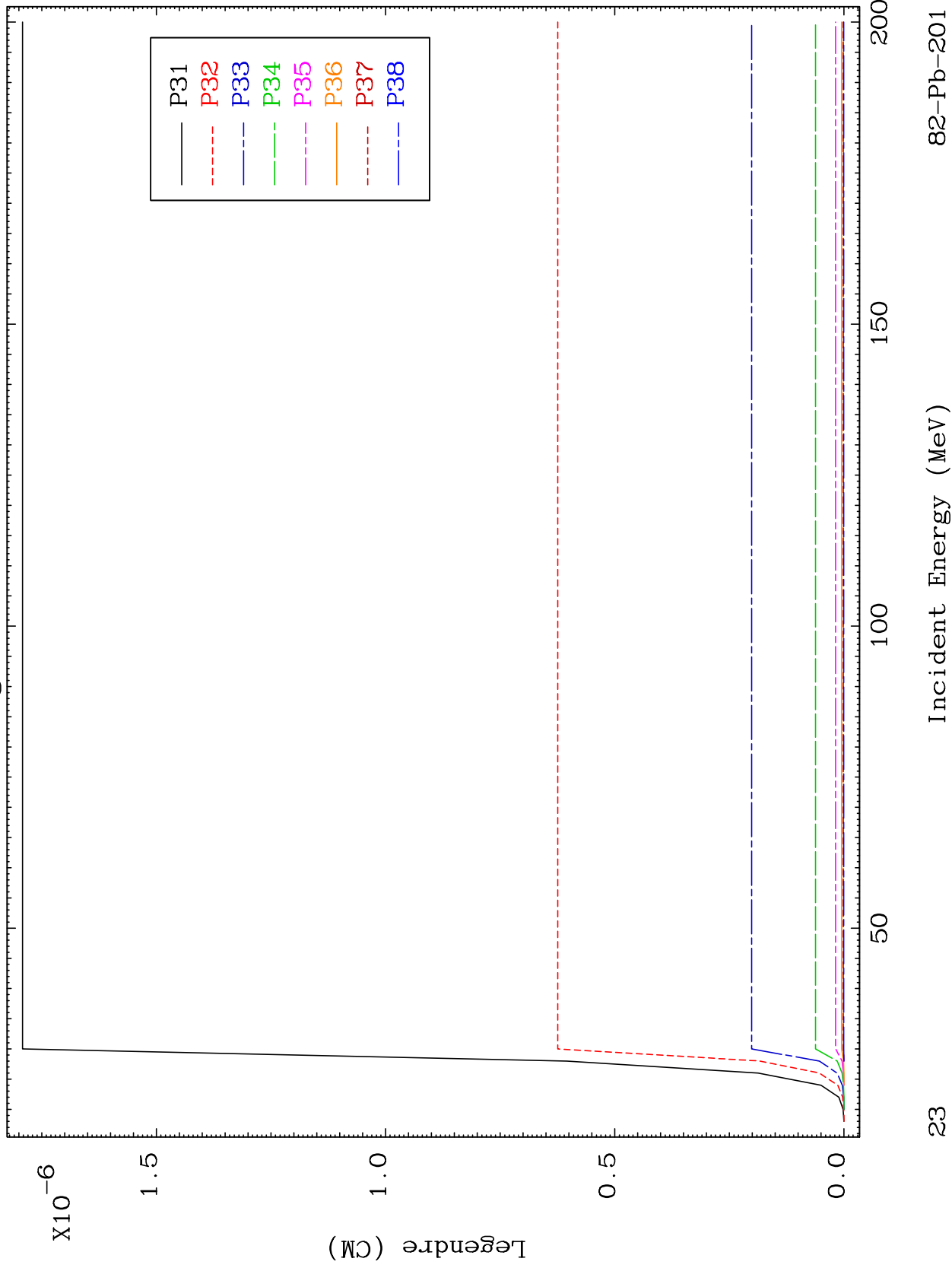
MT= 51 (n,n') Level
Legendre Coefficients



MAT 8216

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

82-Pb-201

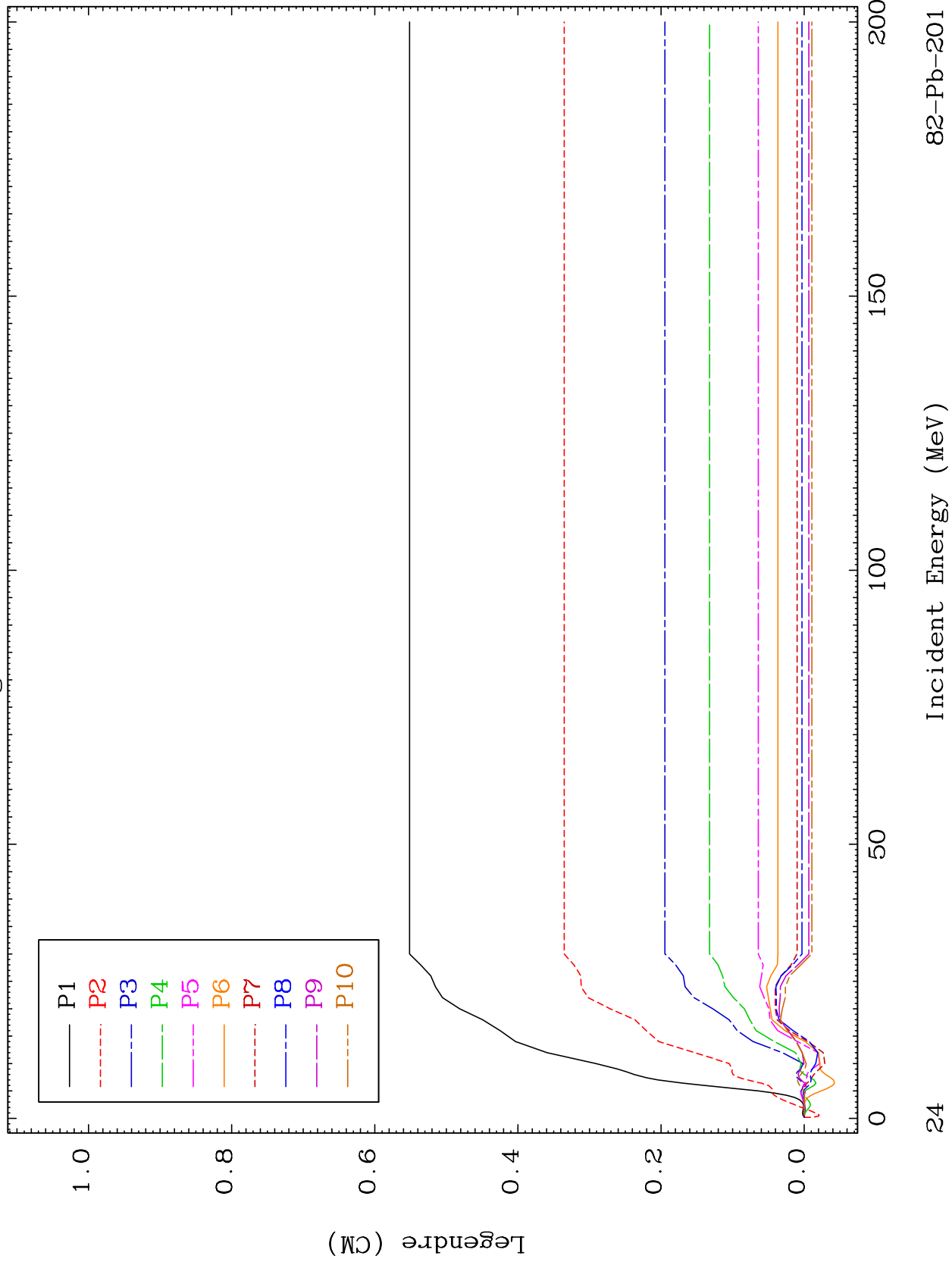


23

MAT 8216

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

82-Pb-201

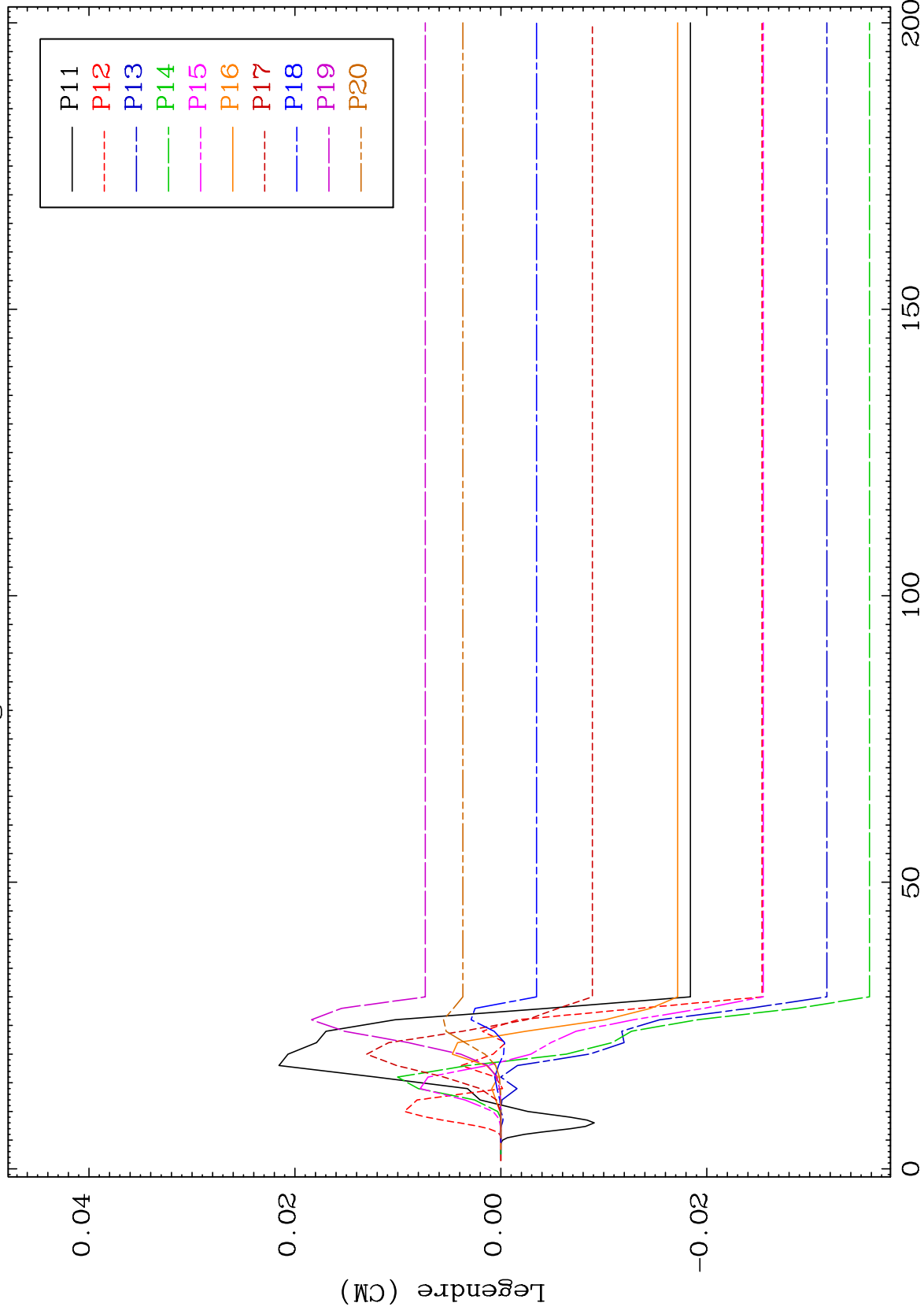


24

MAT 8216

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

82-Pb-201



25

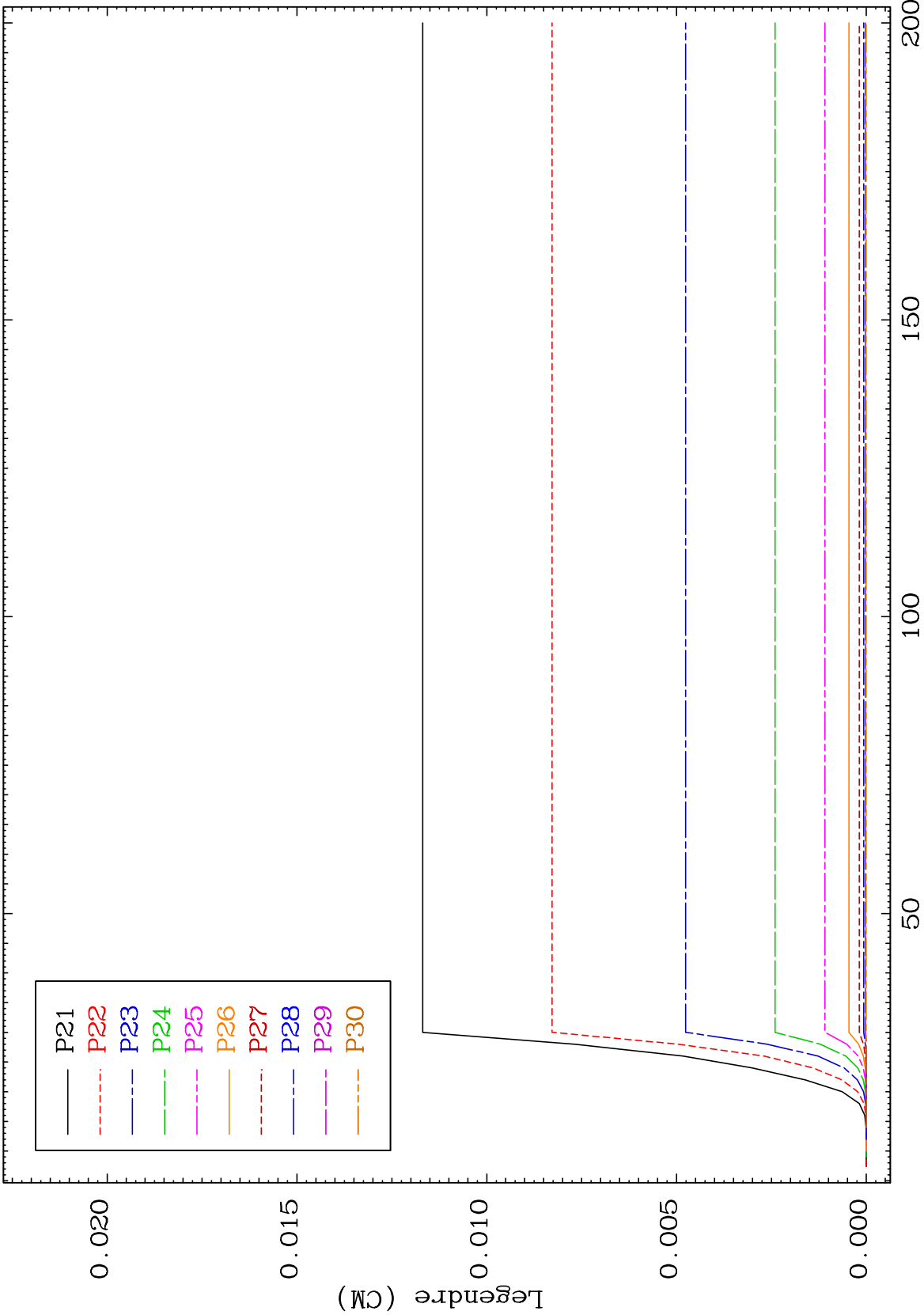
Incident Energy (MeV)

82-Pb-201

MAT 8216

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

82-Pb-201



26

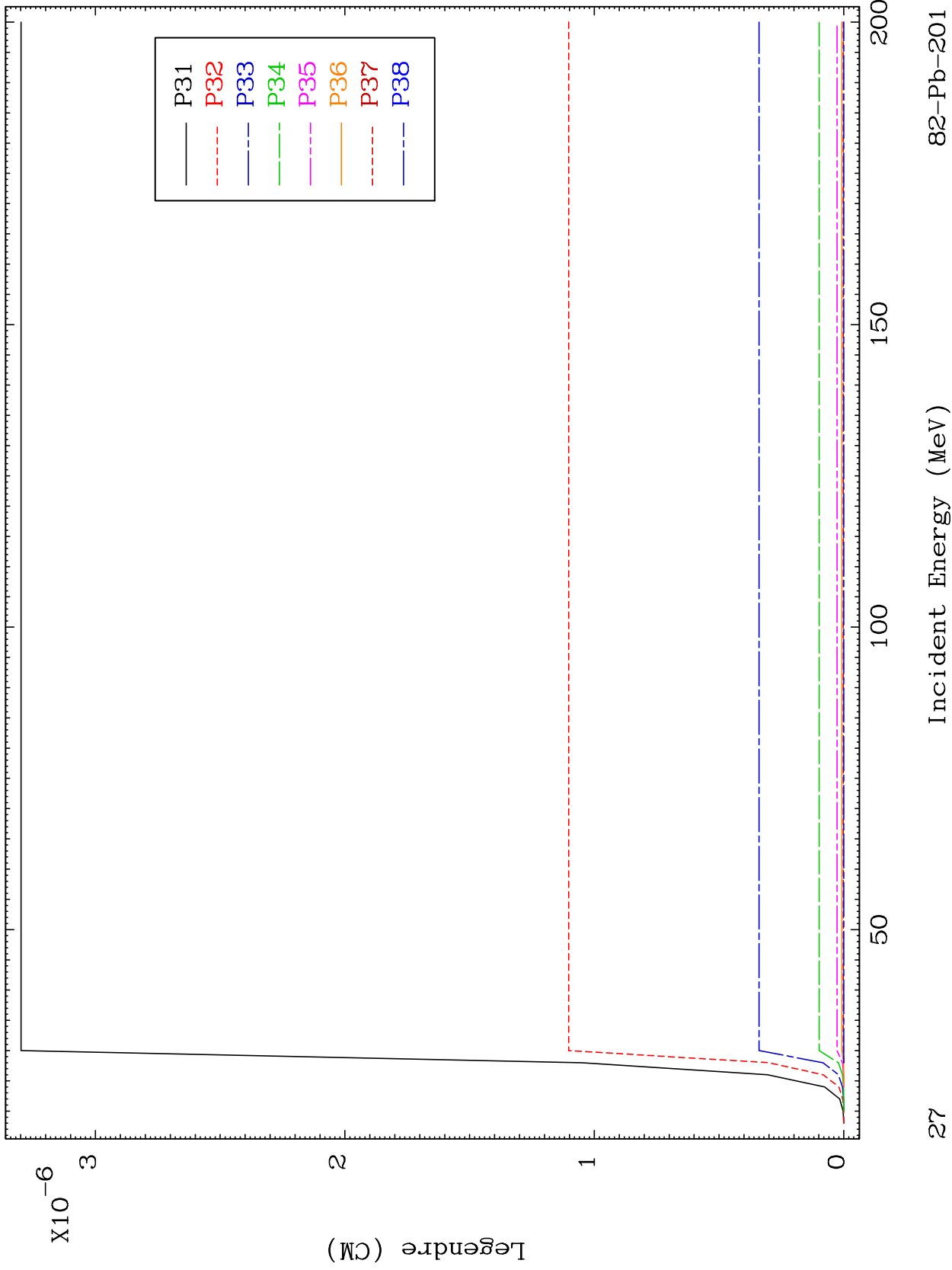
Incident Energy (MeV)

82-Pb-201

MAT 8216

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

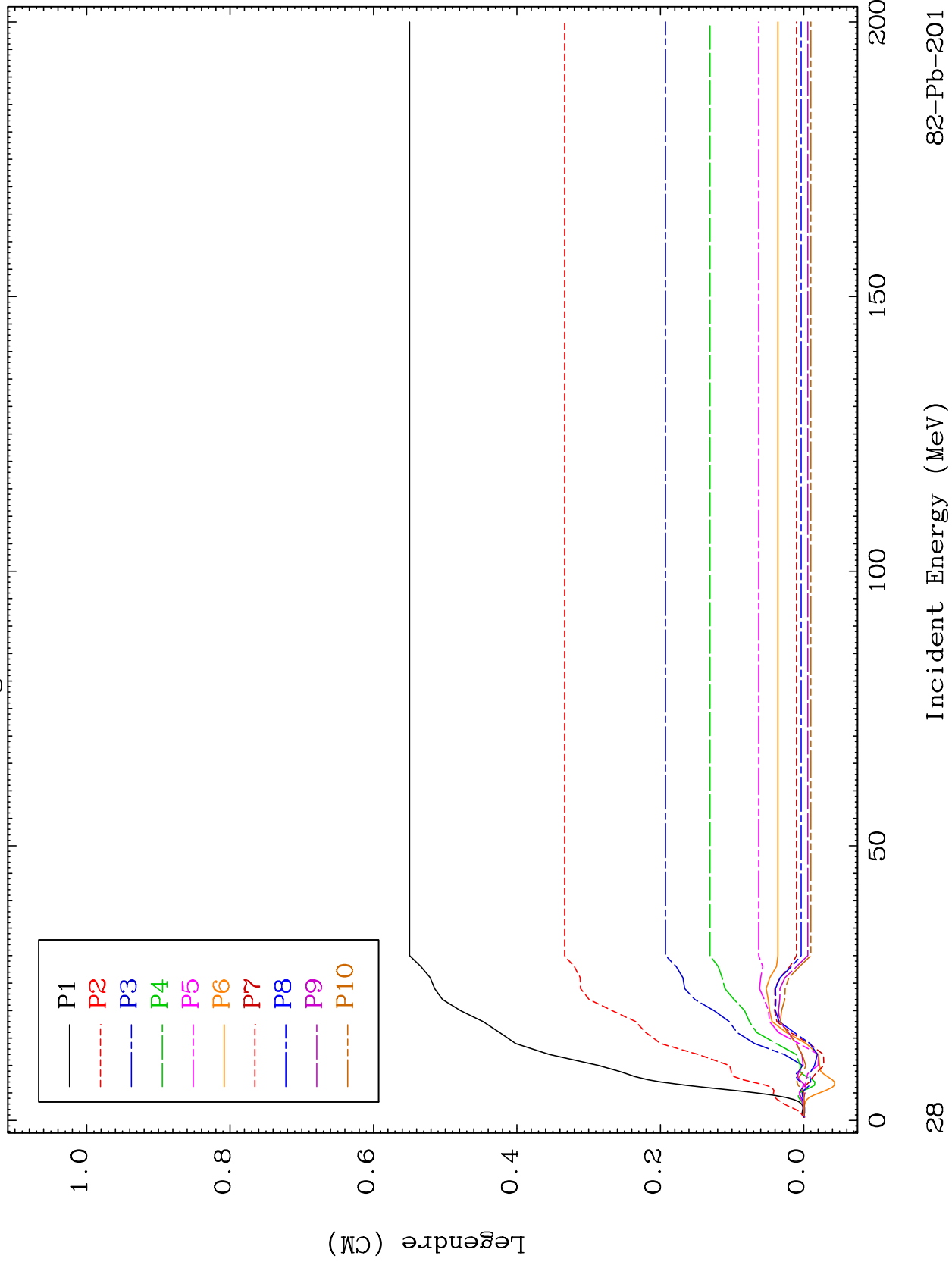
82-Pb-201



MAT 8216

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

82-Pb-201



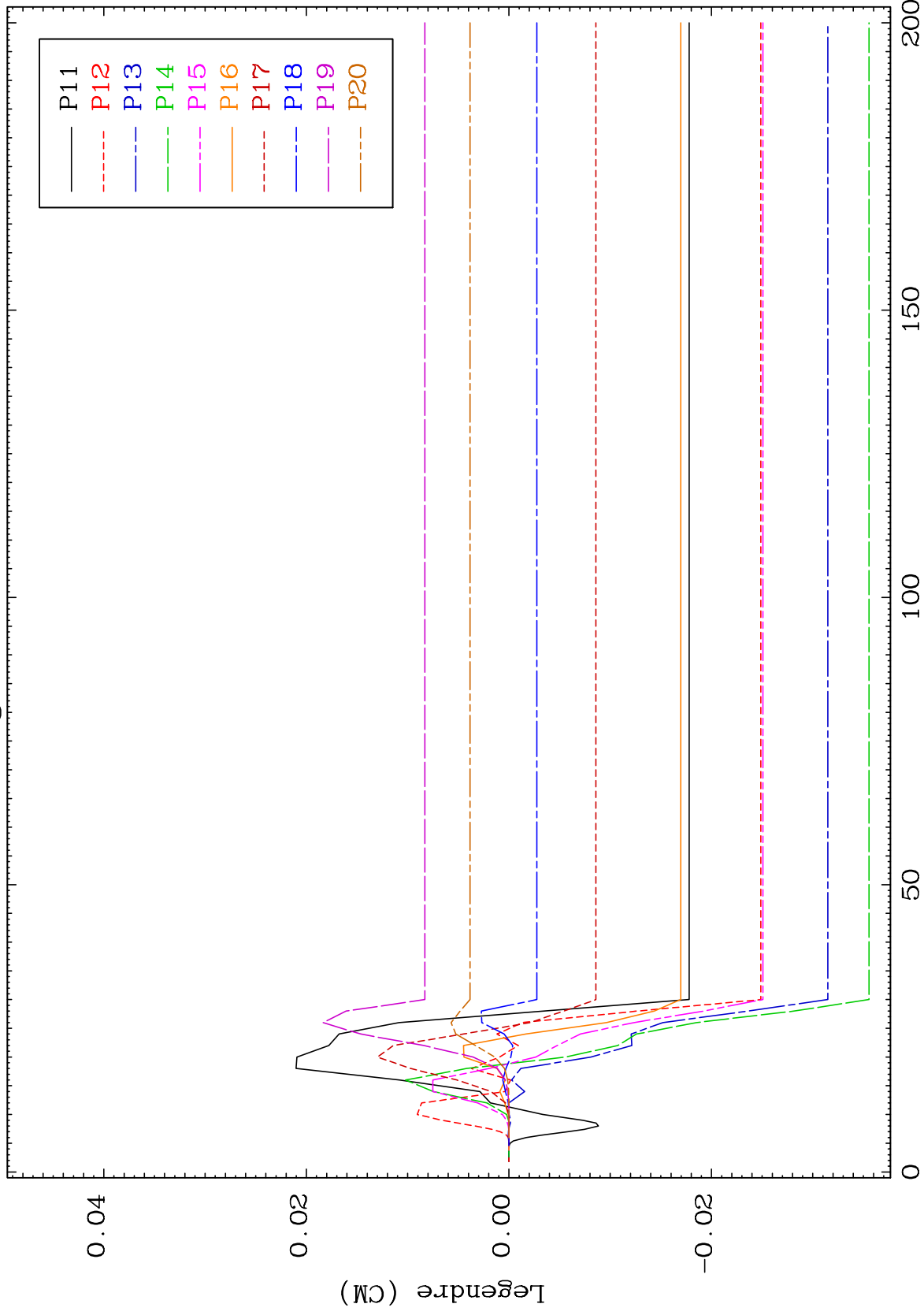
28

82-Pb-201

MAT 8216

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

82-Pb-201



29

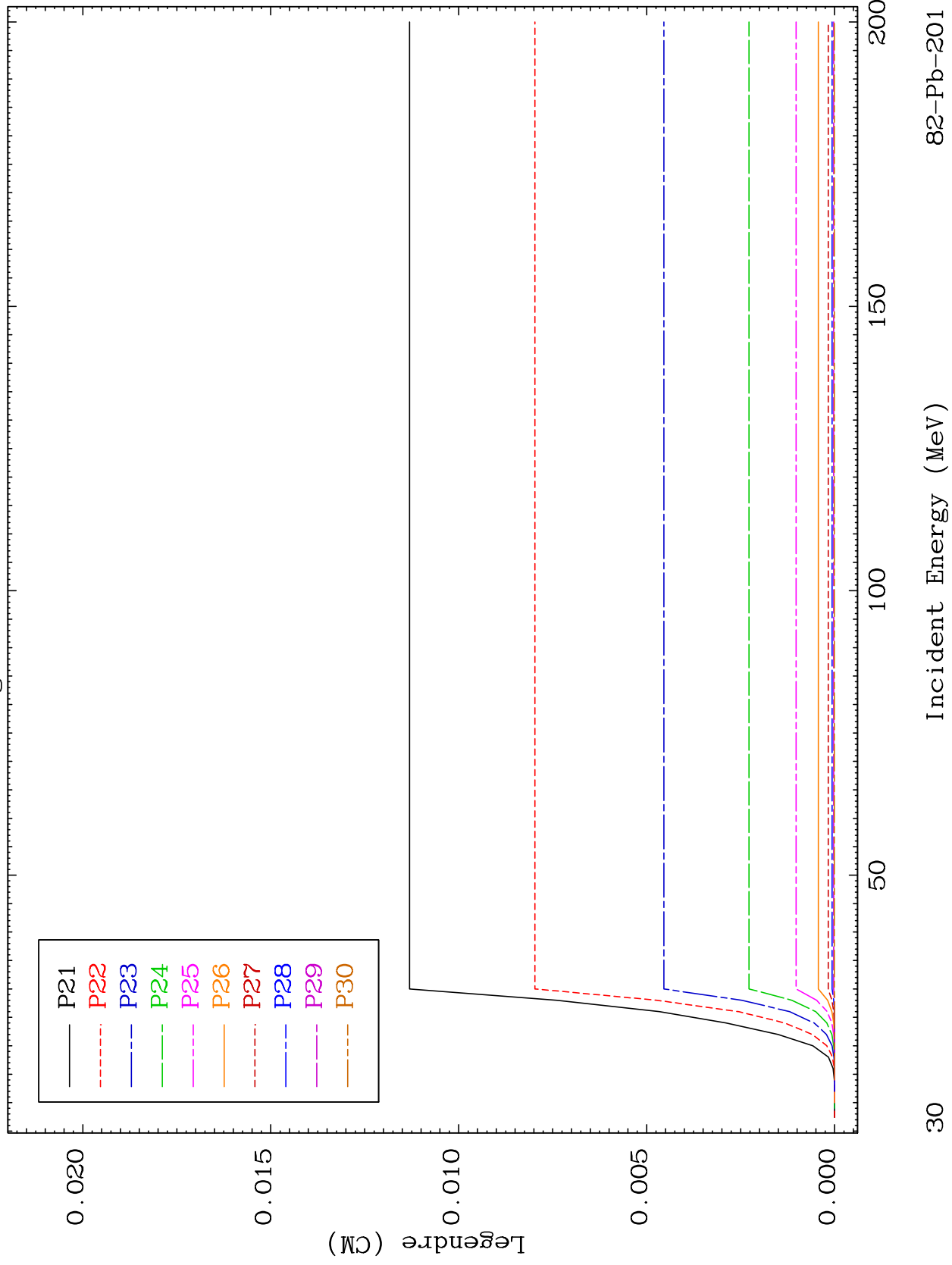
Incident Energy (MeV)

82-Pb-201

MAT 8216

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

82-Pb-201



82-Pb-201

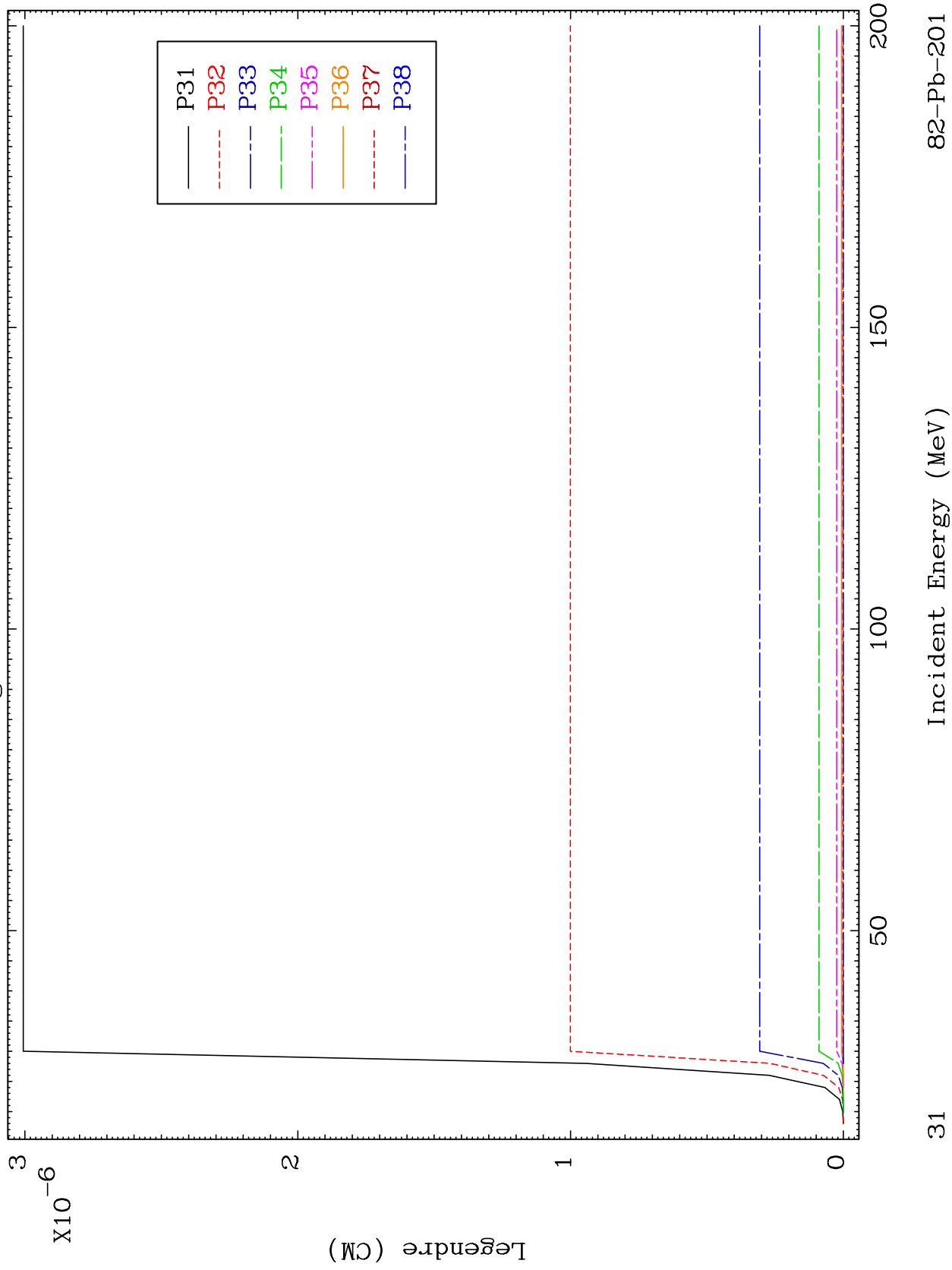
Incident Energy (MeV)

30

MAT 8216

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

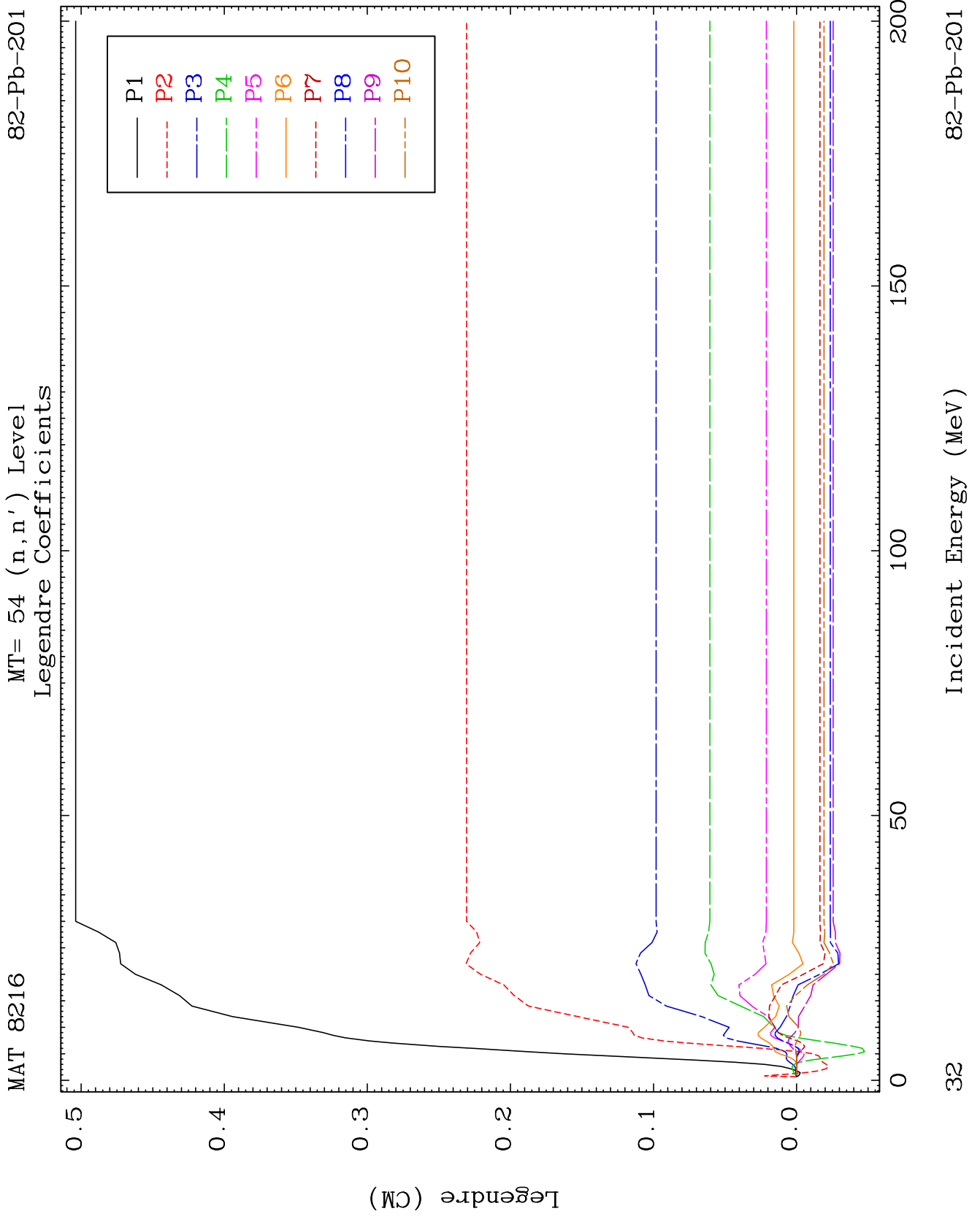
82-Pb-201



31

Incident Energy (MeV)

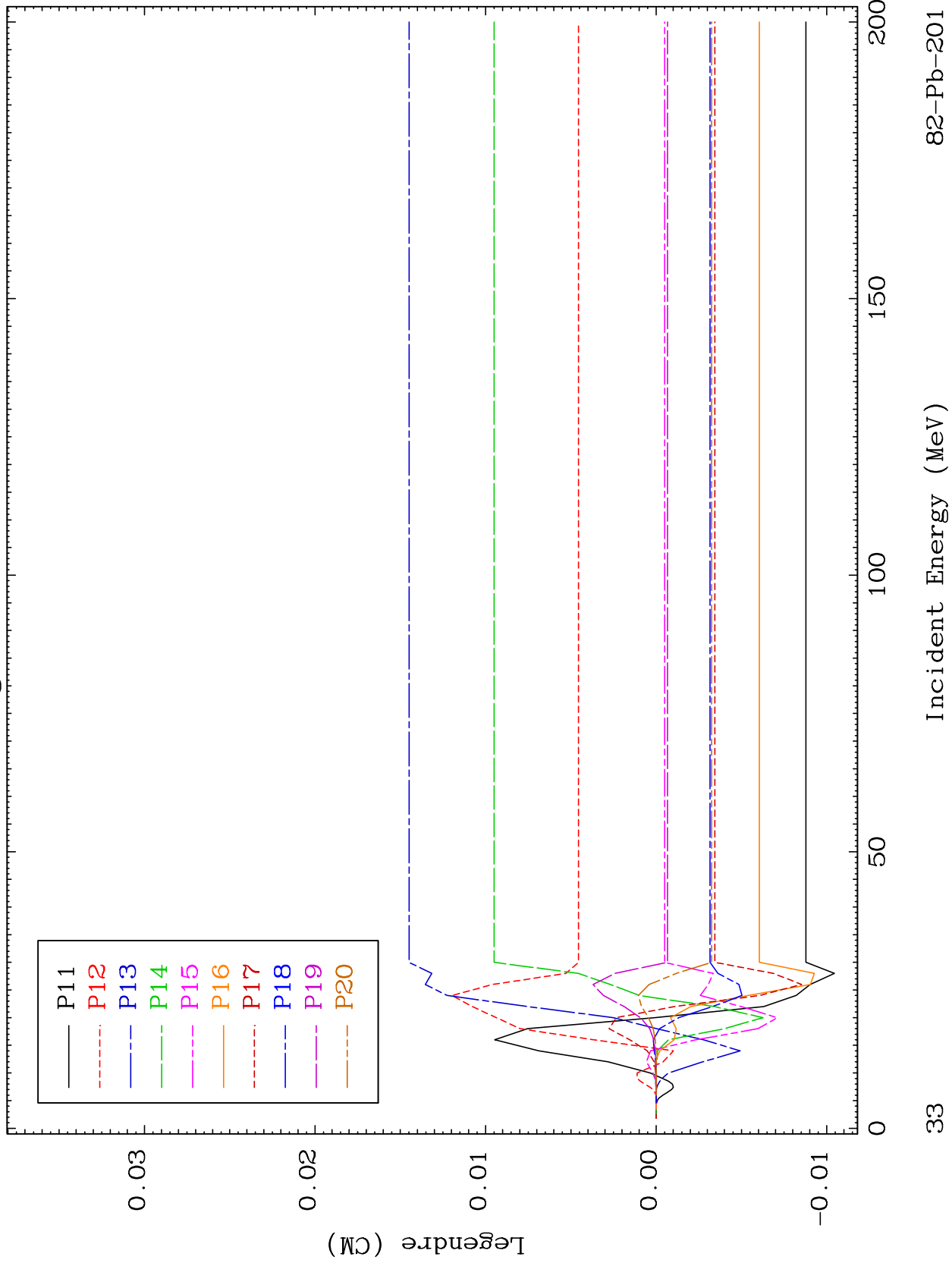
82-Pb-201



MAT 8216

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

82-Pb-201



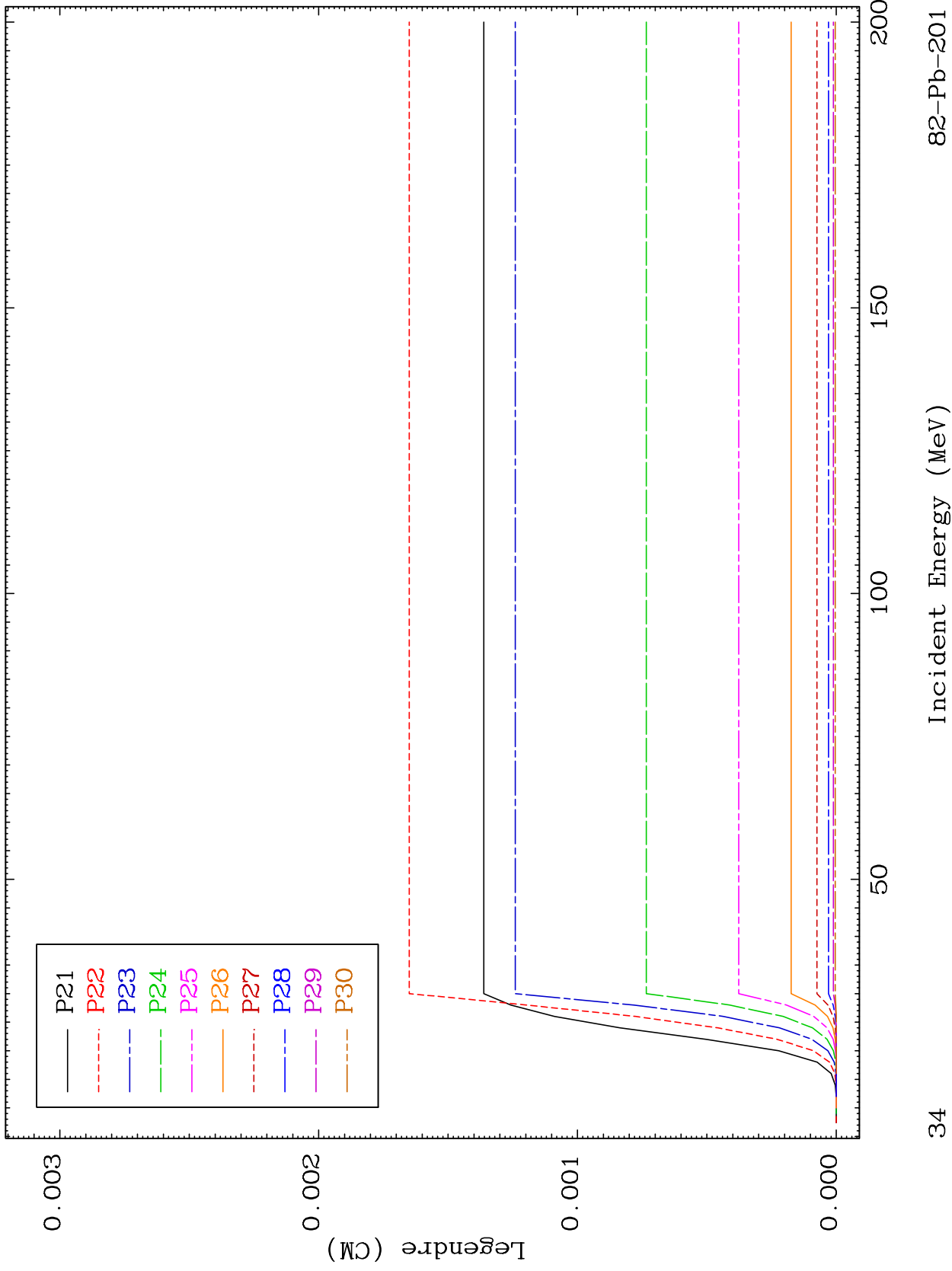
33

82-Pb-201

MAT 8216

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

82-Pb-201

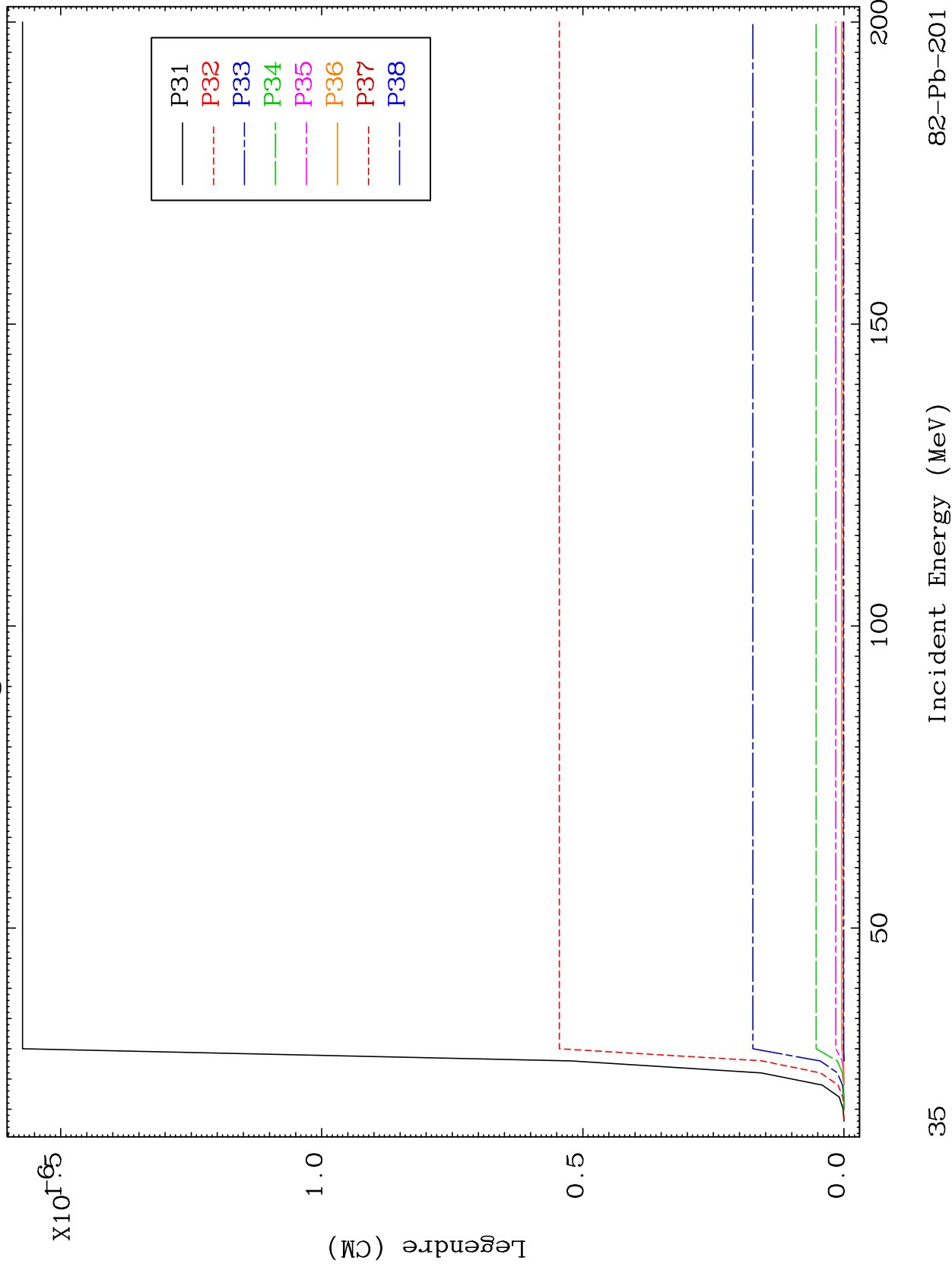


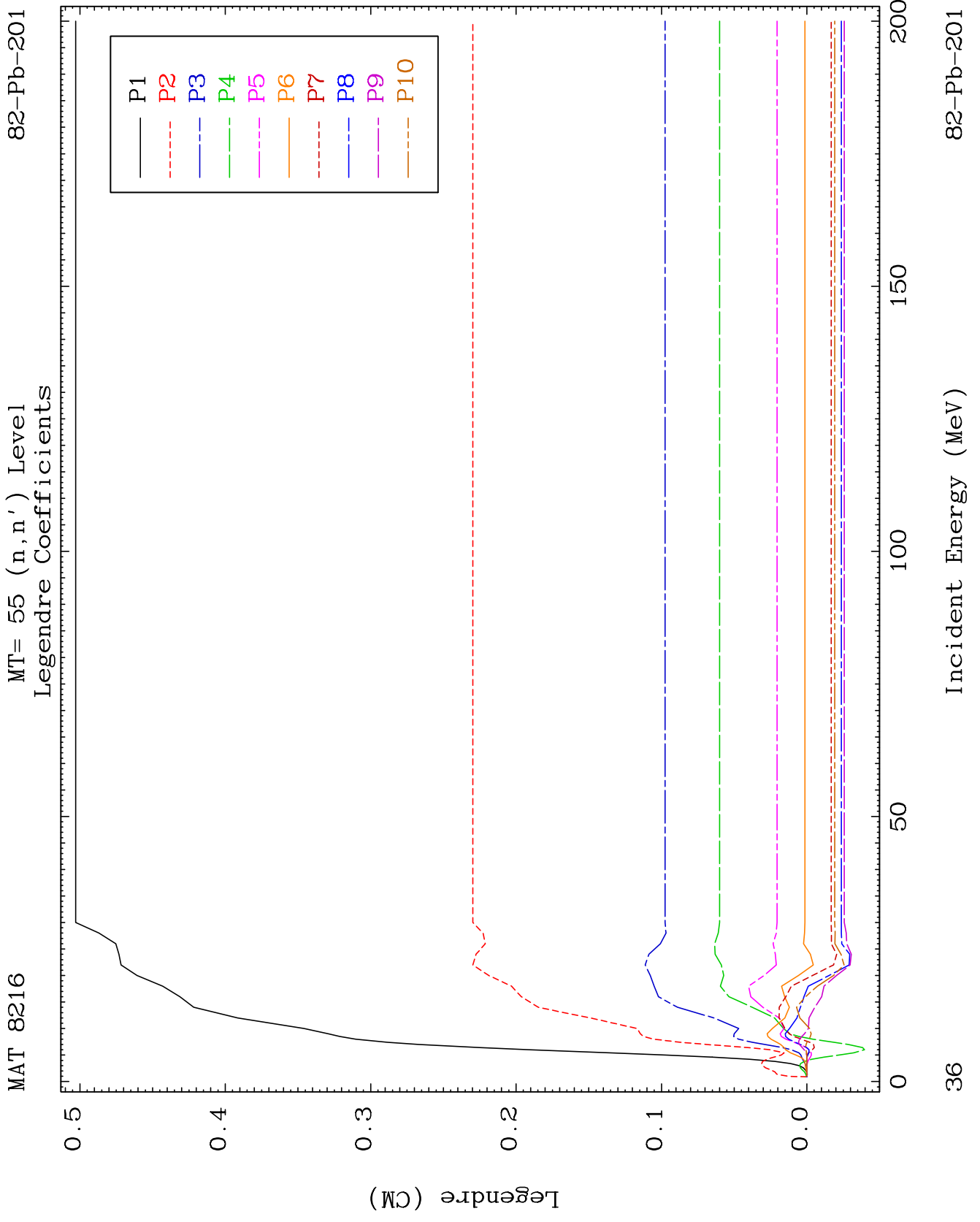
34

MAT 8216

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

82-Pb-201

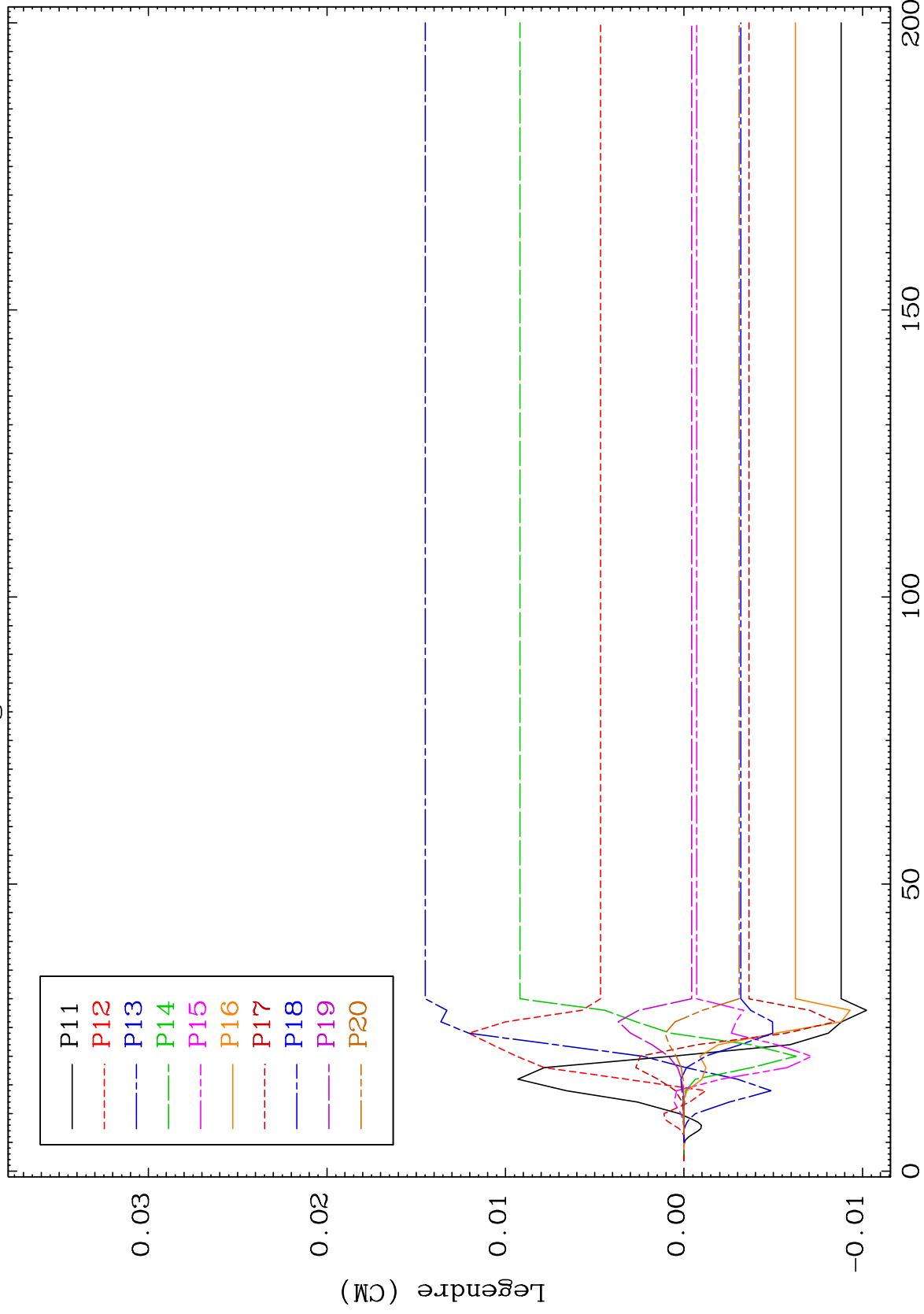




MAT 8216

82-Pb-201

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



37

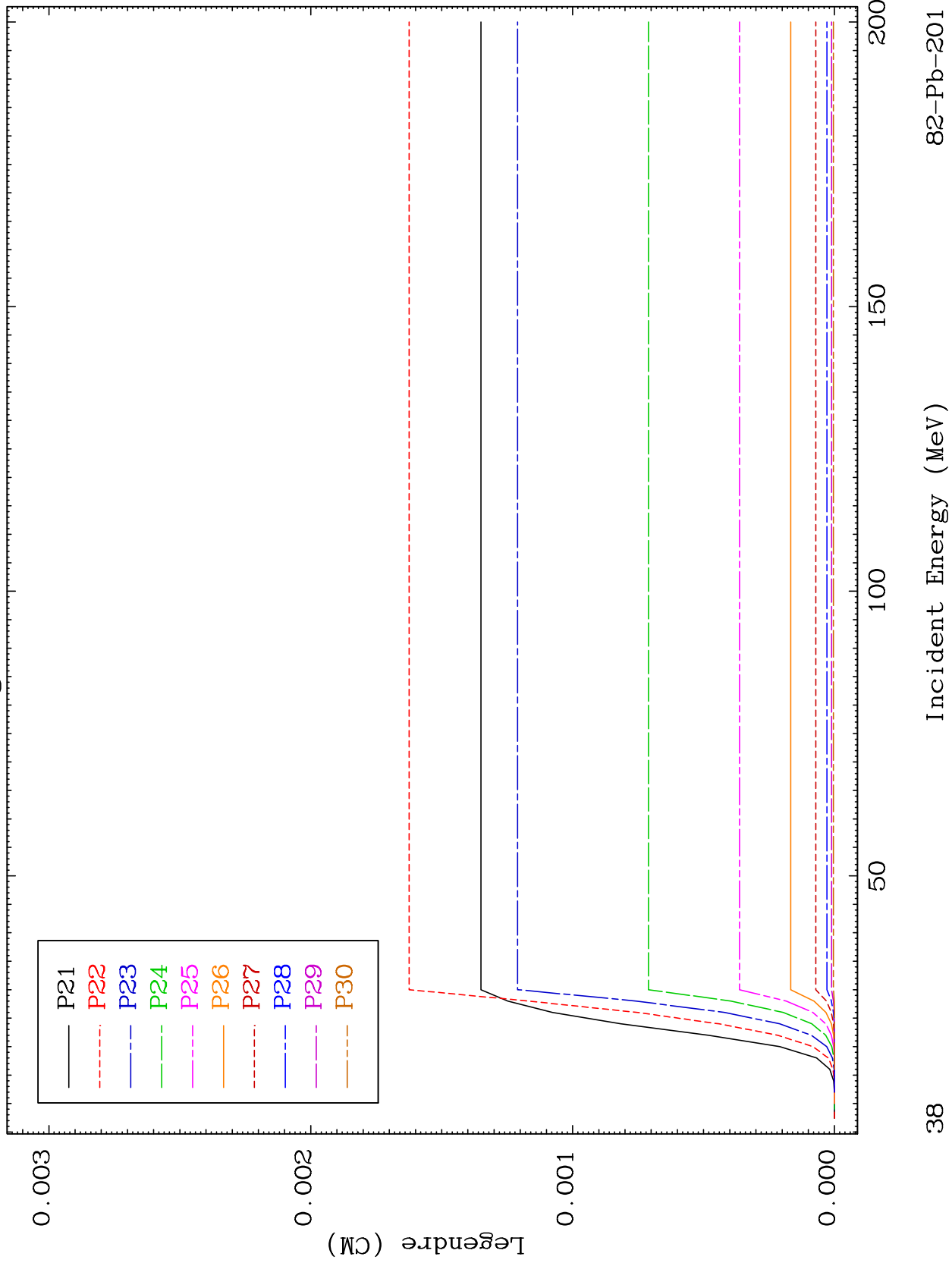
82-Pb-201

Incident Energy (MeV)

MAT 8216

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

82-Pb-201



38

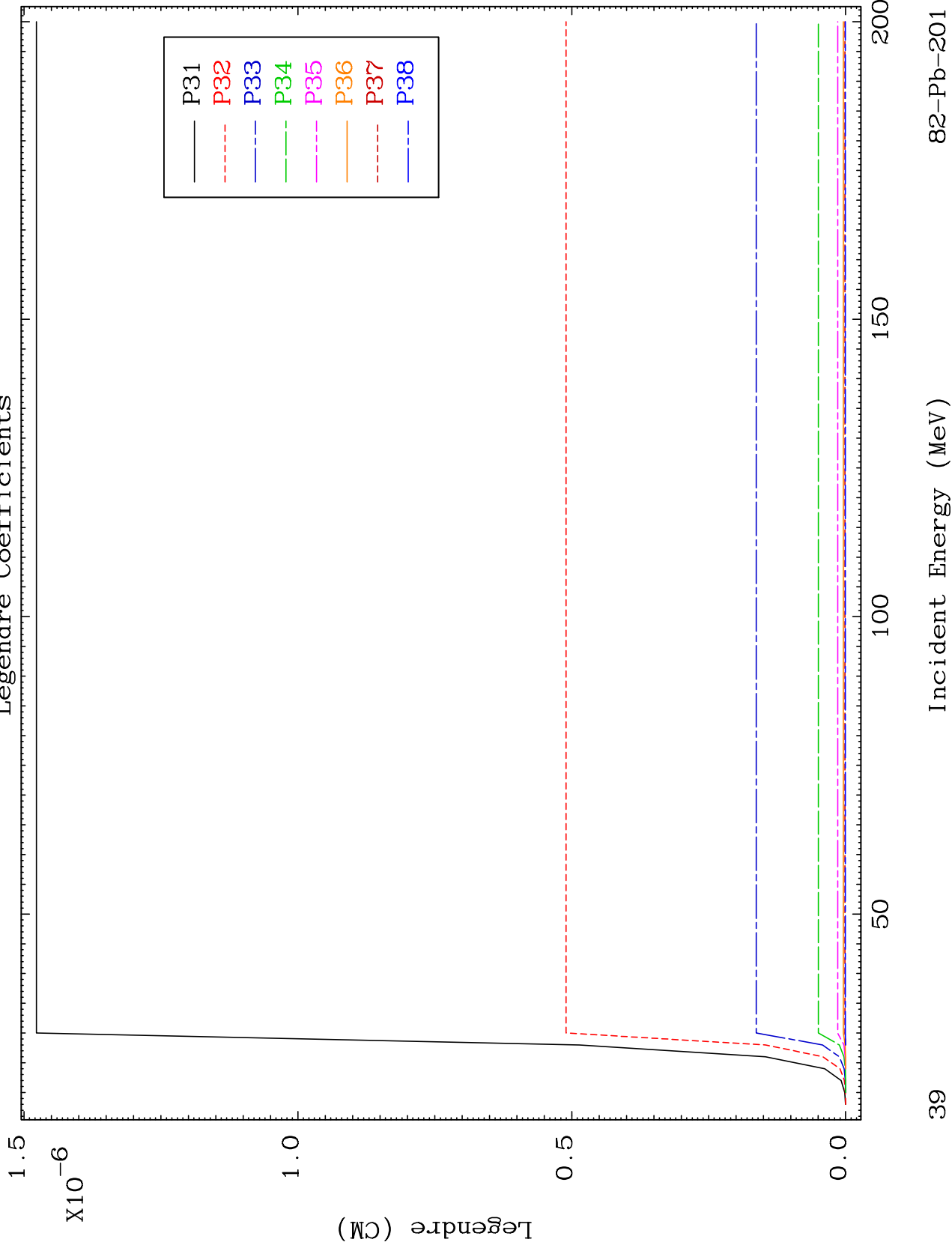
Incident Energy (MeV)

82-Pb-201

MAT 8216

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

82-Pb-201

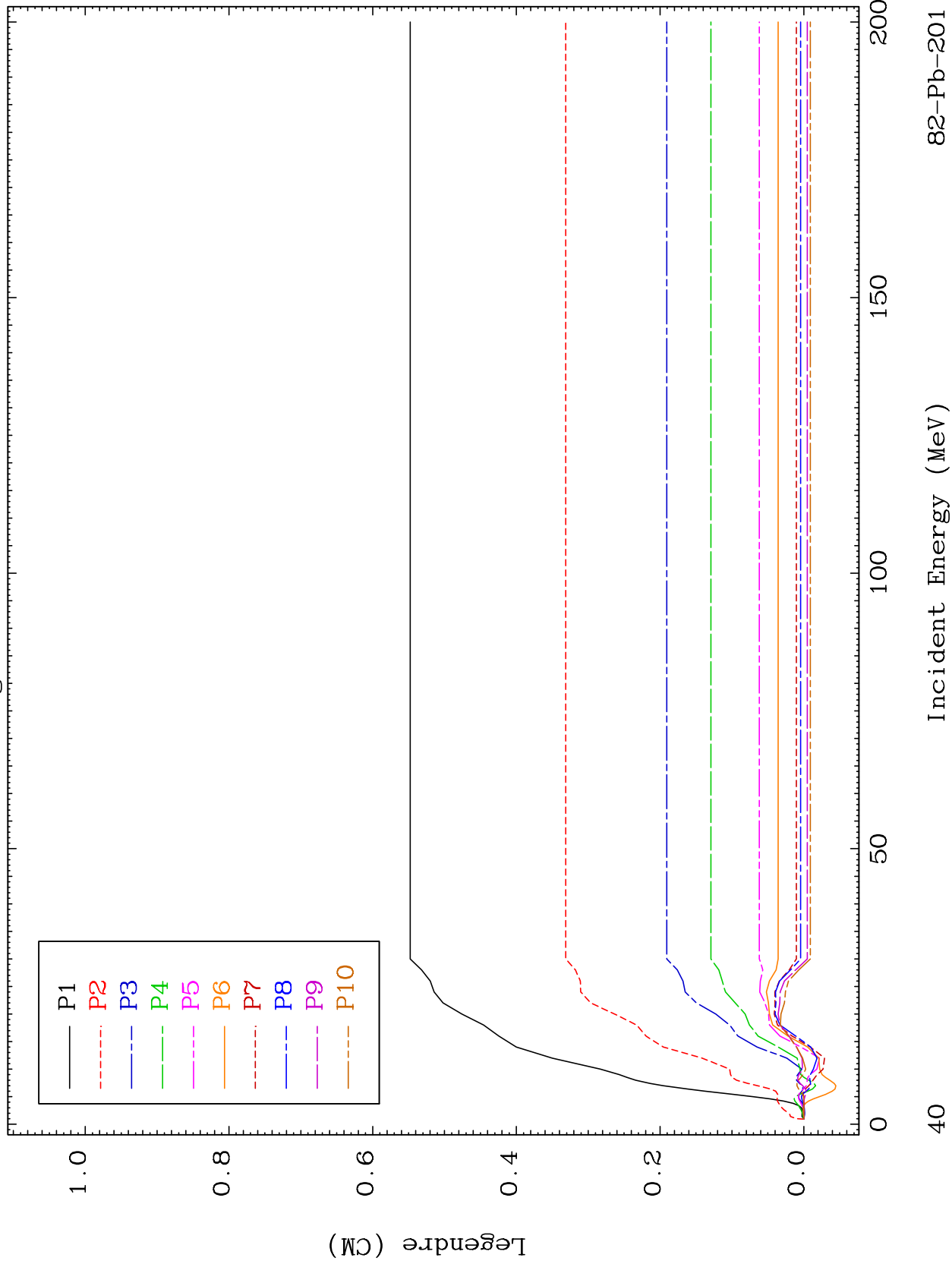


39

MAT 8216

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

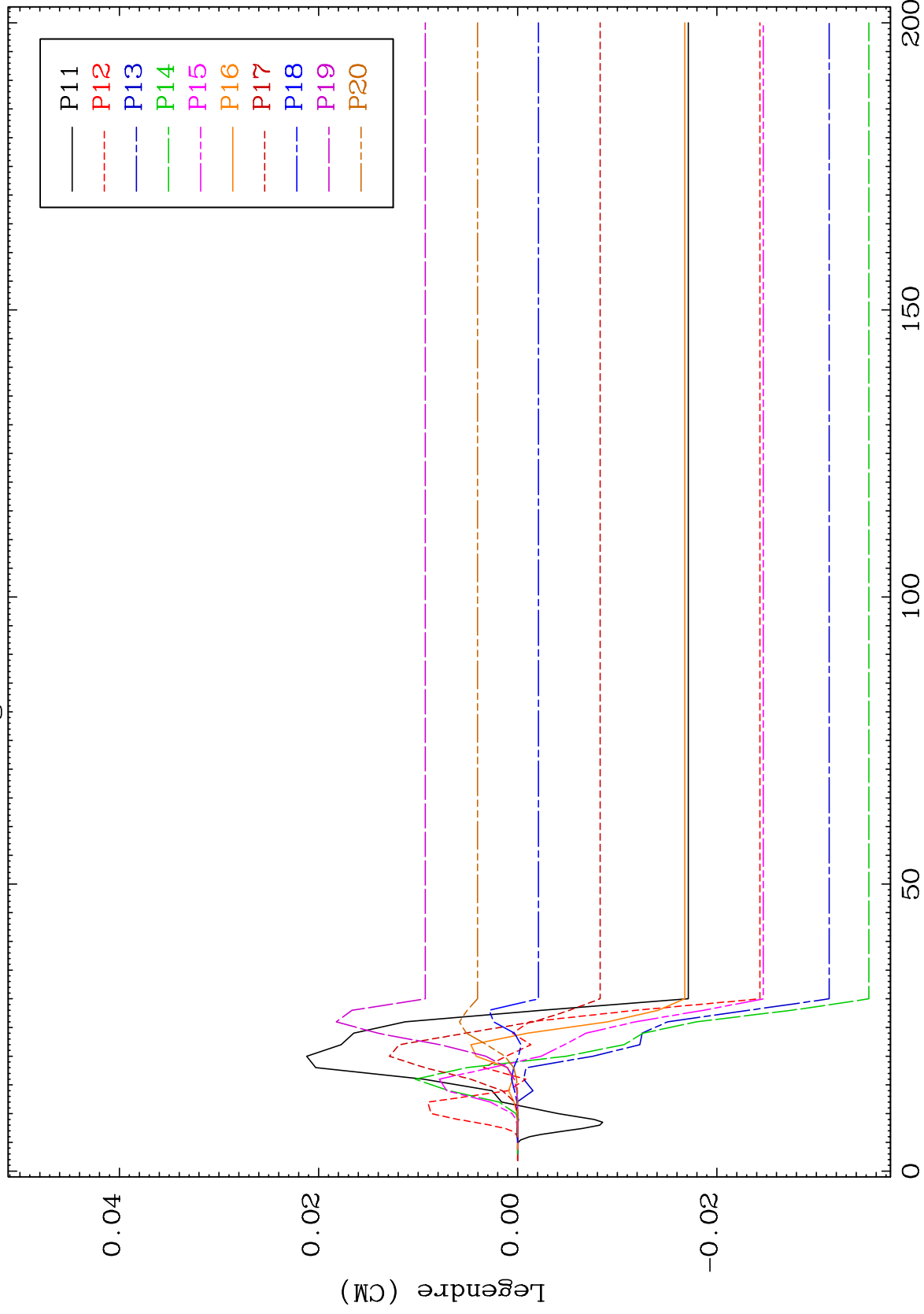
82-Pb-201



MAT 8216

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

82-Pb-201



41

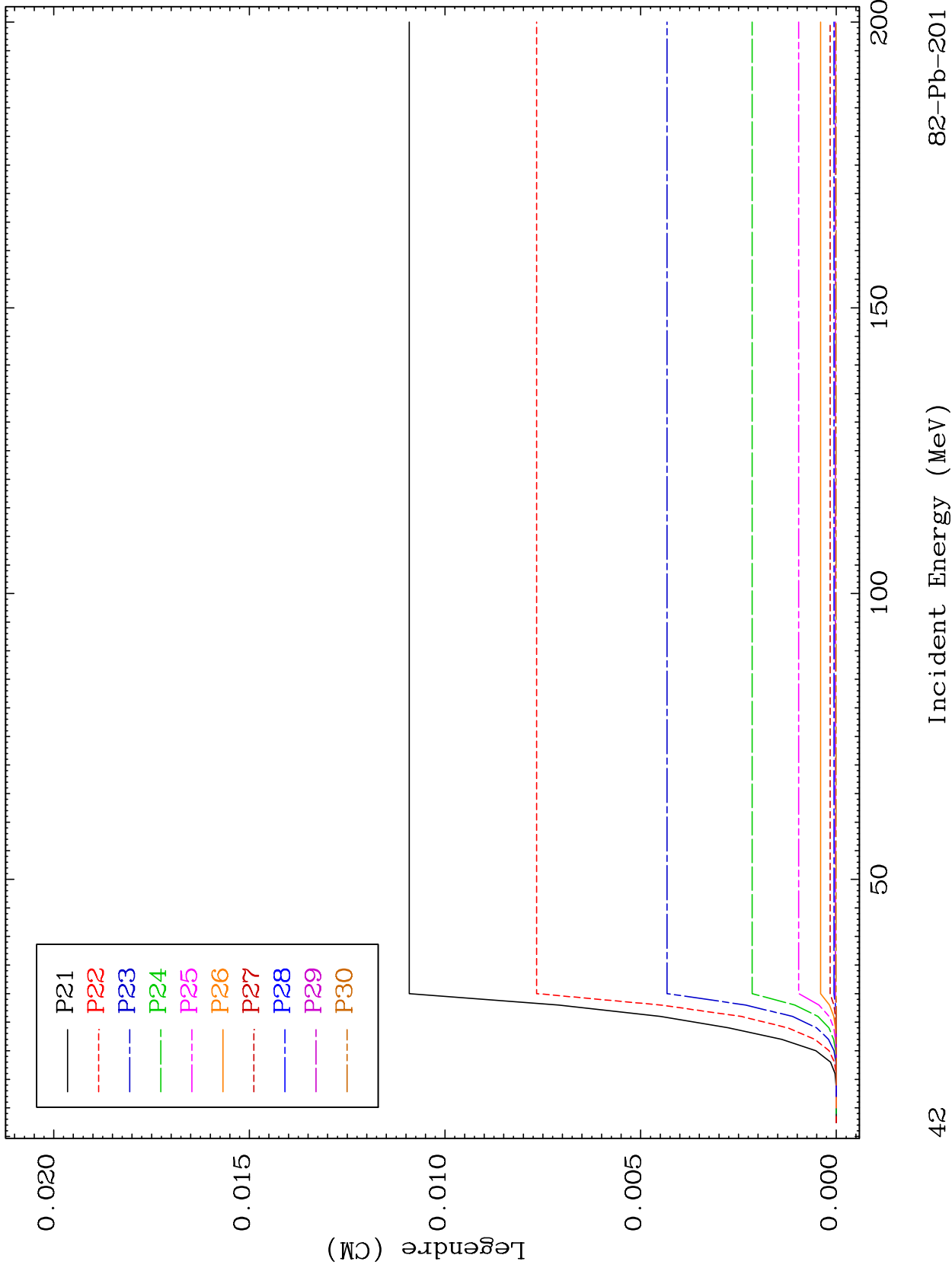
Incident Energy (MeV)

82-Pb-201

MAT 8216

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

82-Pb-201



42

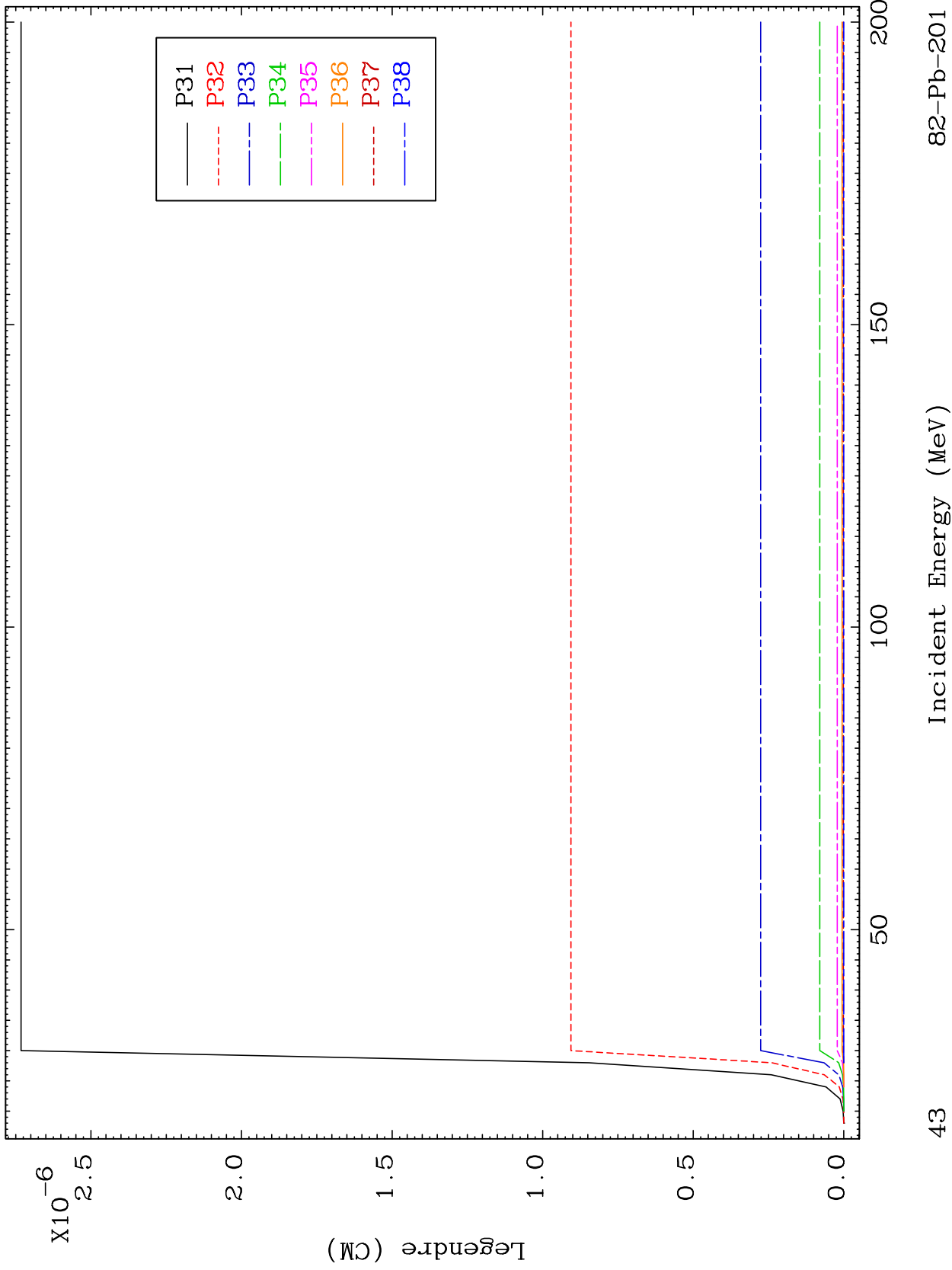
Incident Energy (MeV)

82-Pb-201

MAT 8216

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

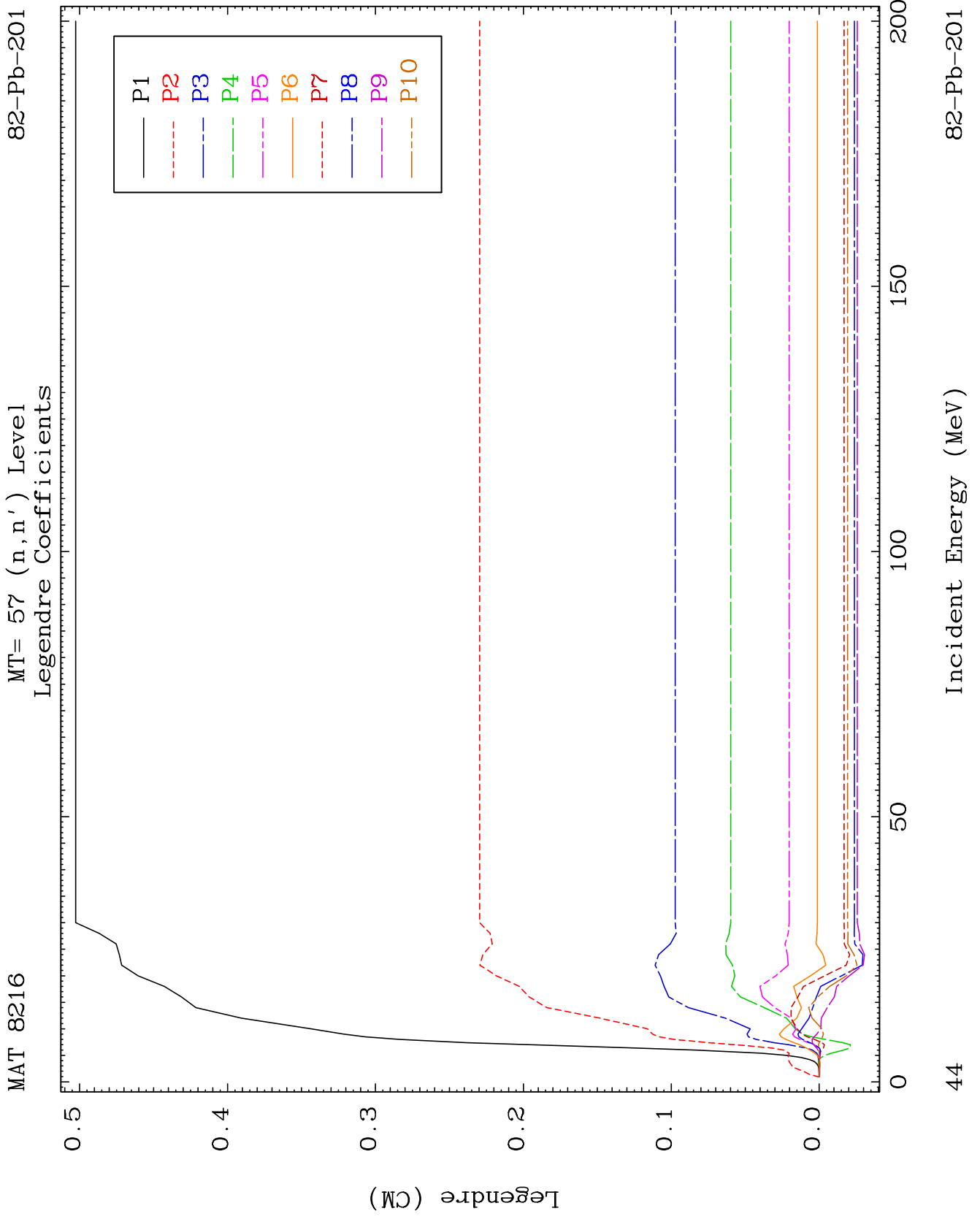
82-Pb-201



43

Incident Energy (MeV)

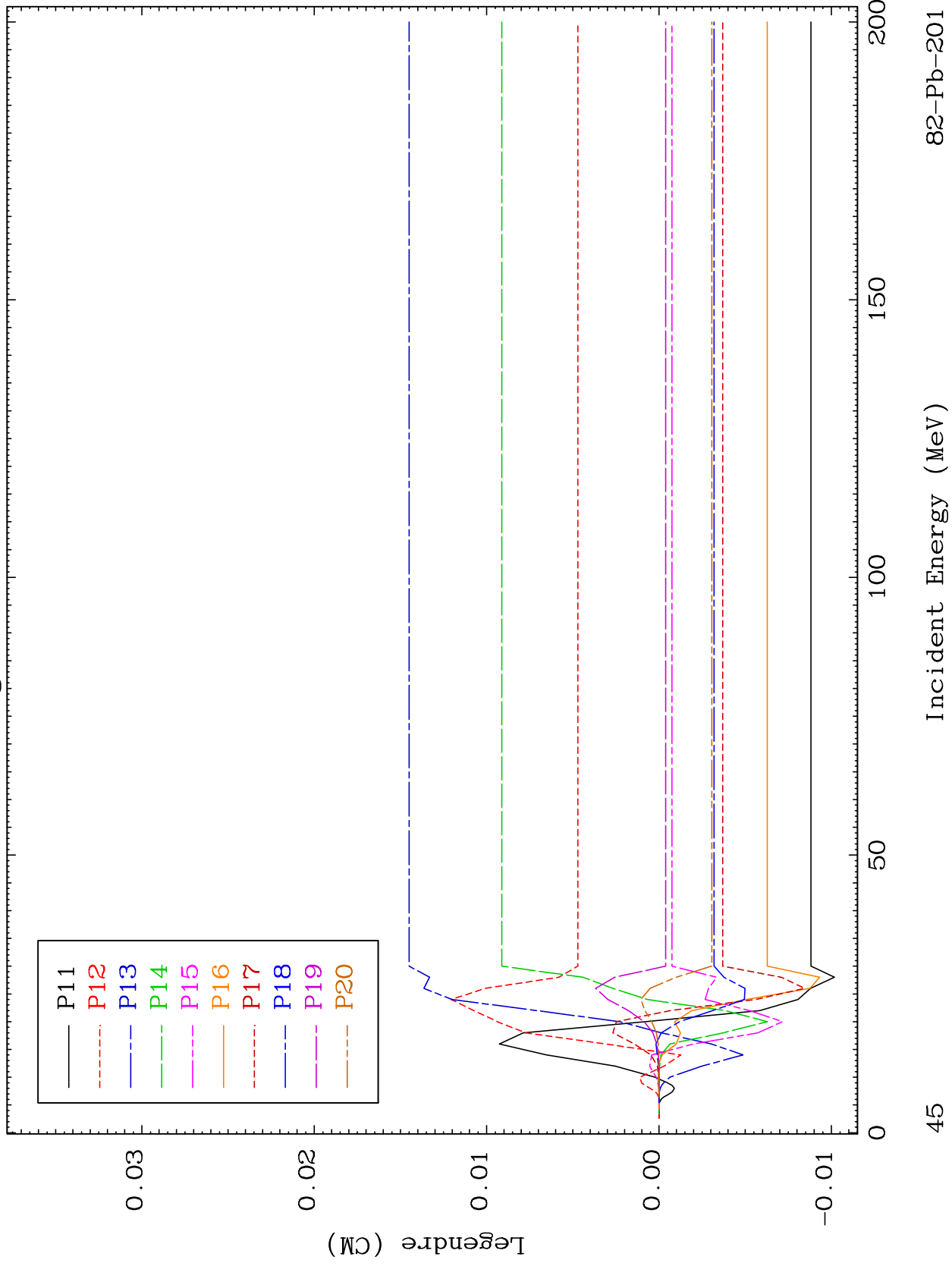
82-Pb-201



MAT 8216

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

82-Pb-201



82-Pb-201

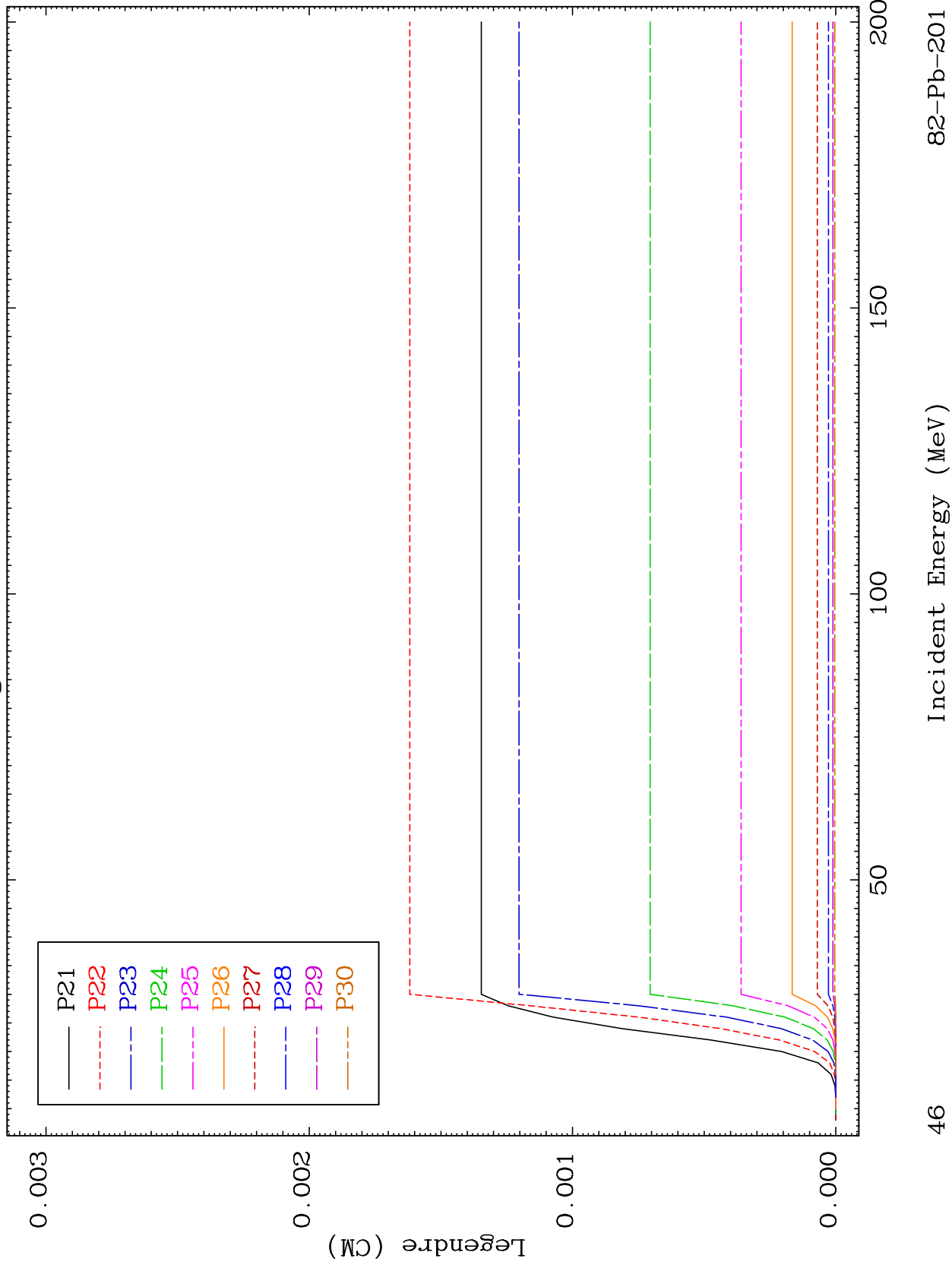
Incident Energy (MeV)

45

MAT 8216

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

82-Pb-201



46

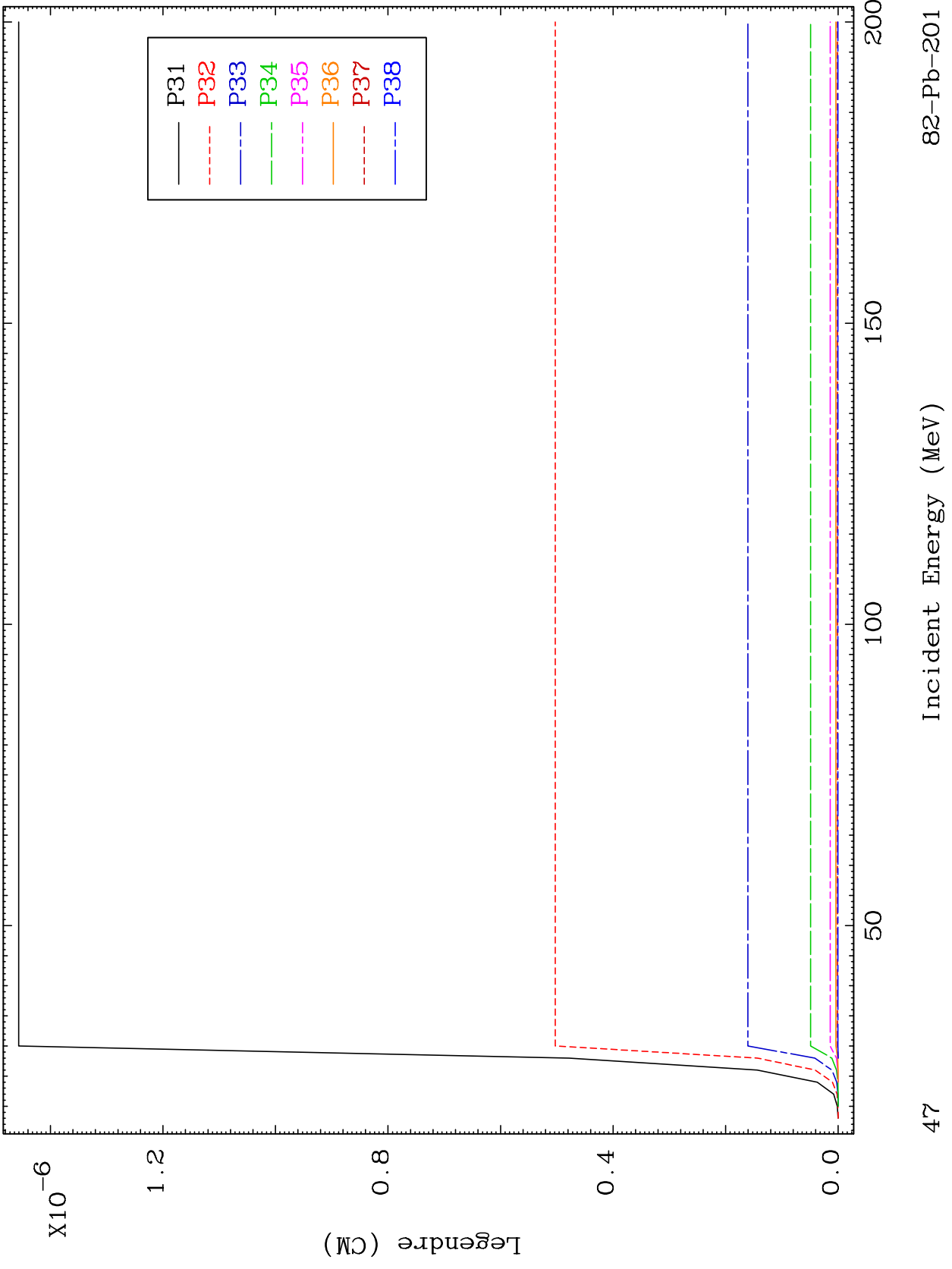
Incident Energy (MeV)

82-Pb-201

MAT 8216

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

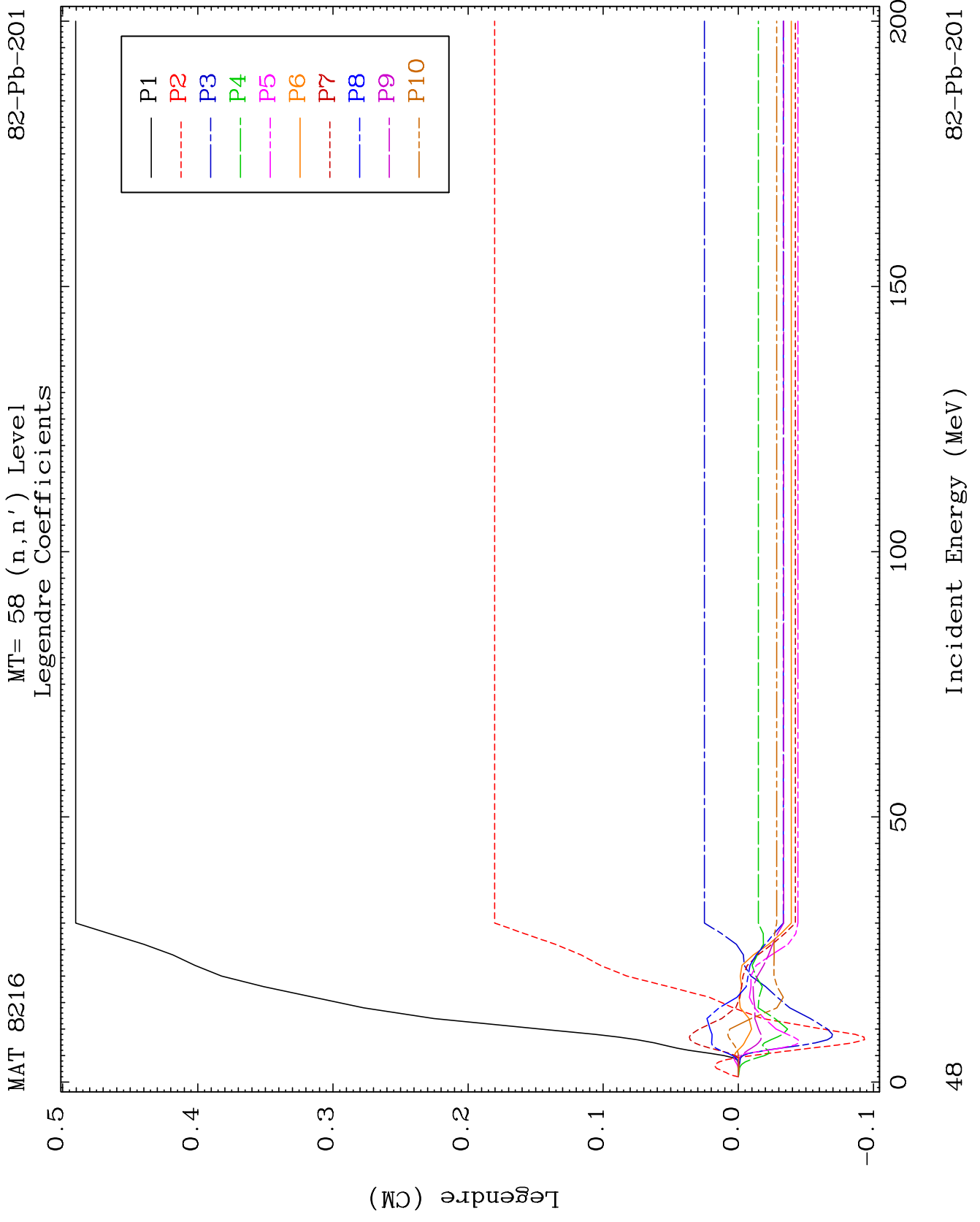
82-Pb-201



47

Incident Energy (MeV)

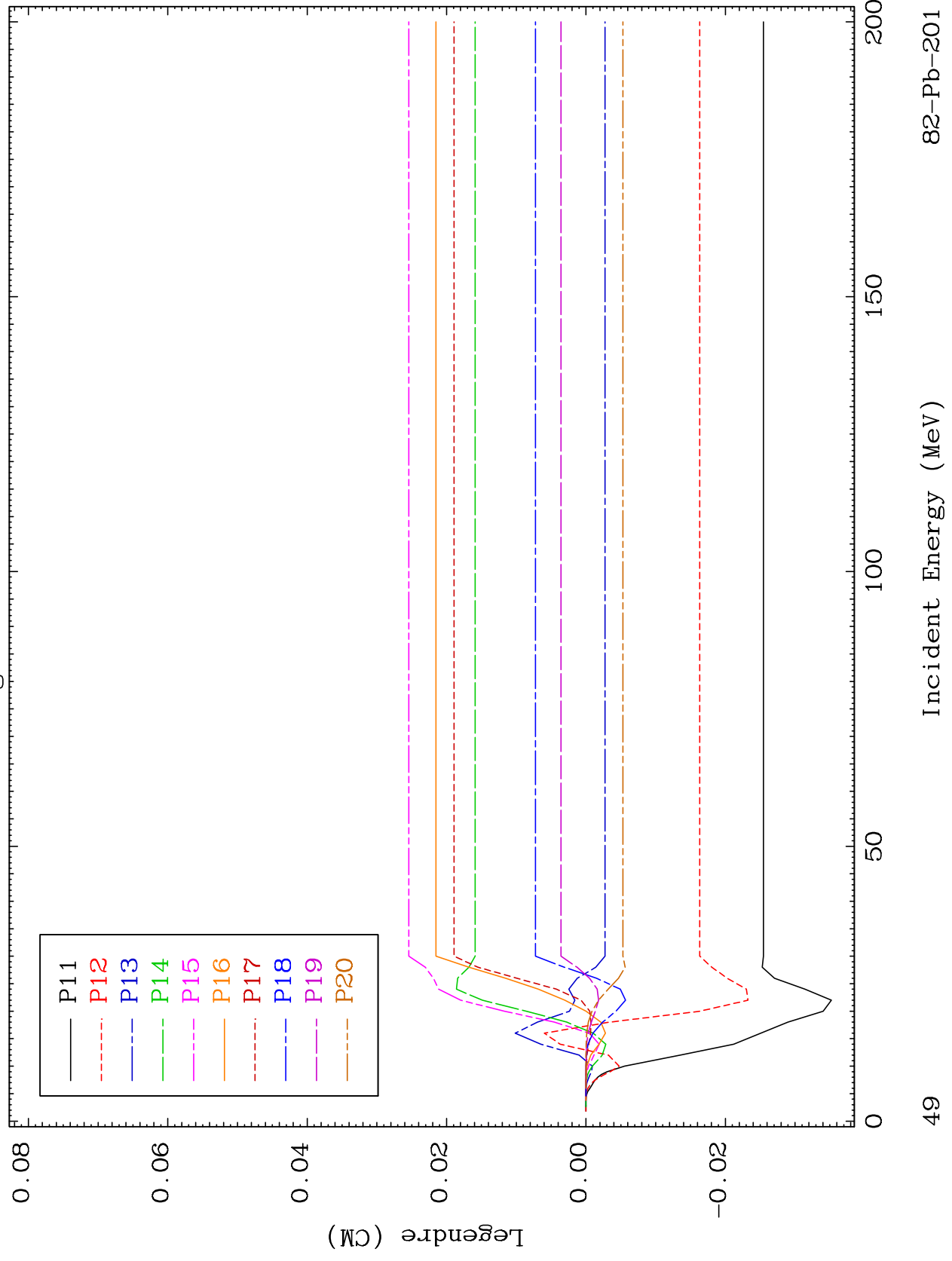
82-Pb-201



MAT 8216

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

82-Pb-201



49

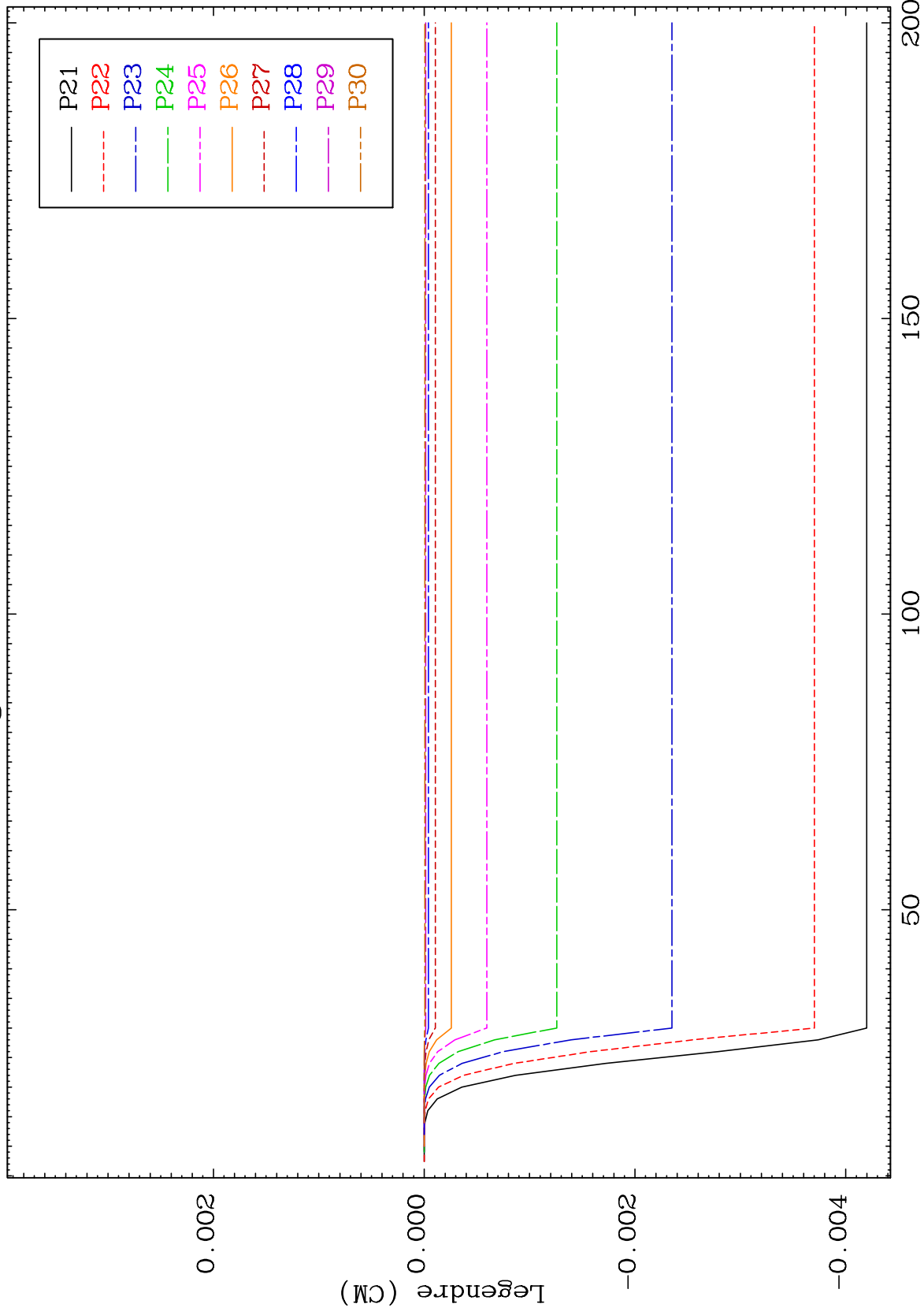
Incident Energy (MeV)

82-Pb-201

MAT 8216

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

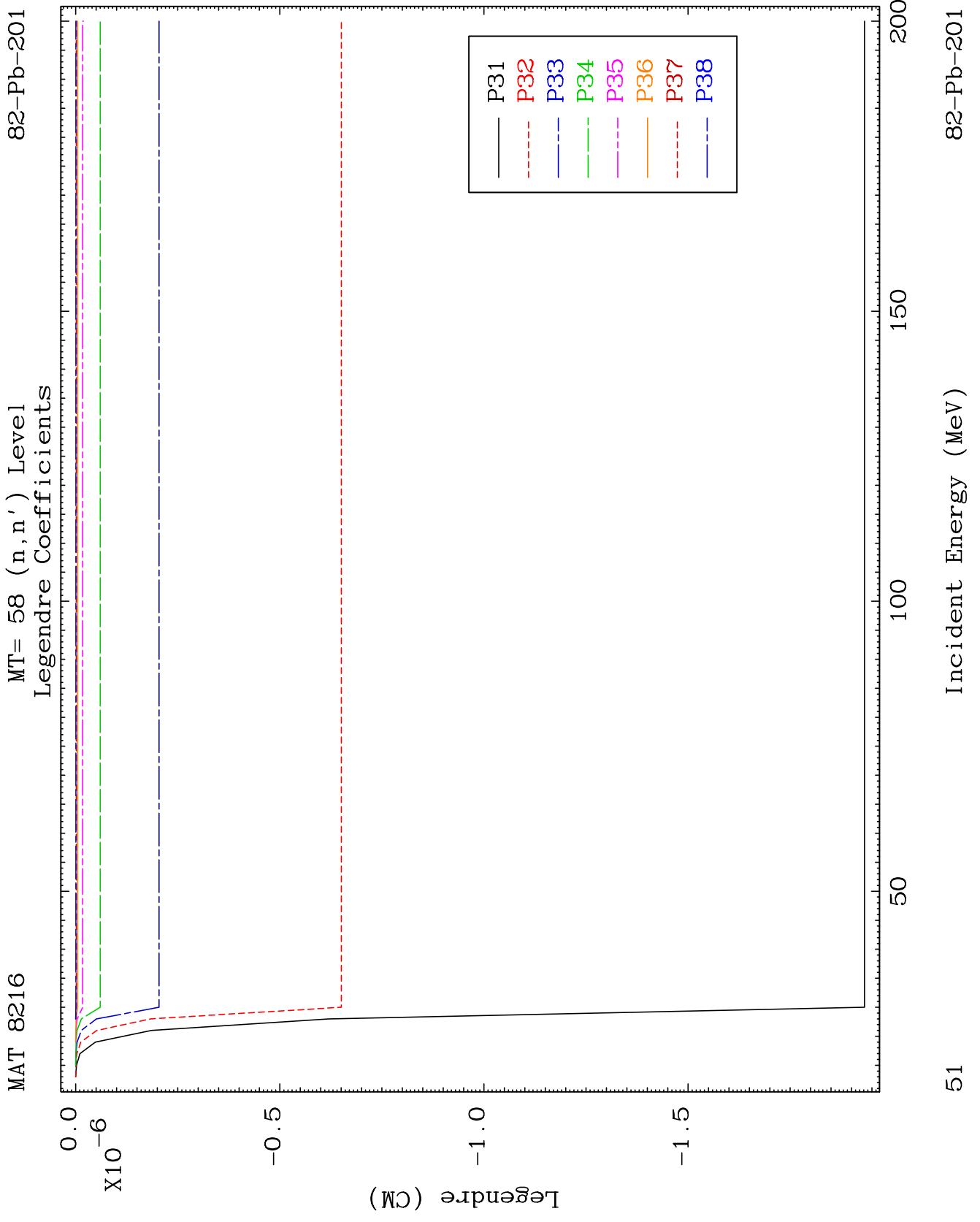
82-Pb-201



50

Incident Energy (MeV)

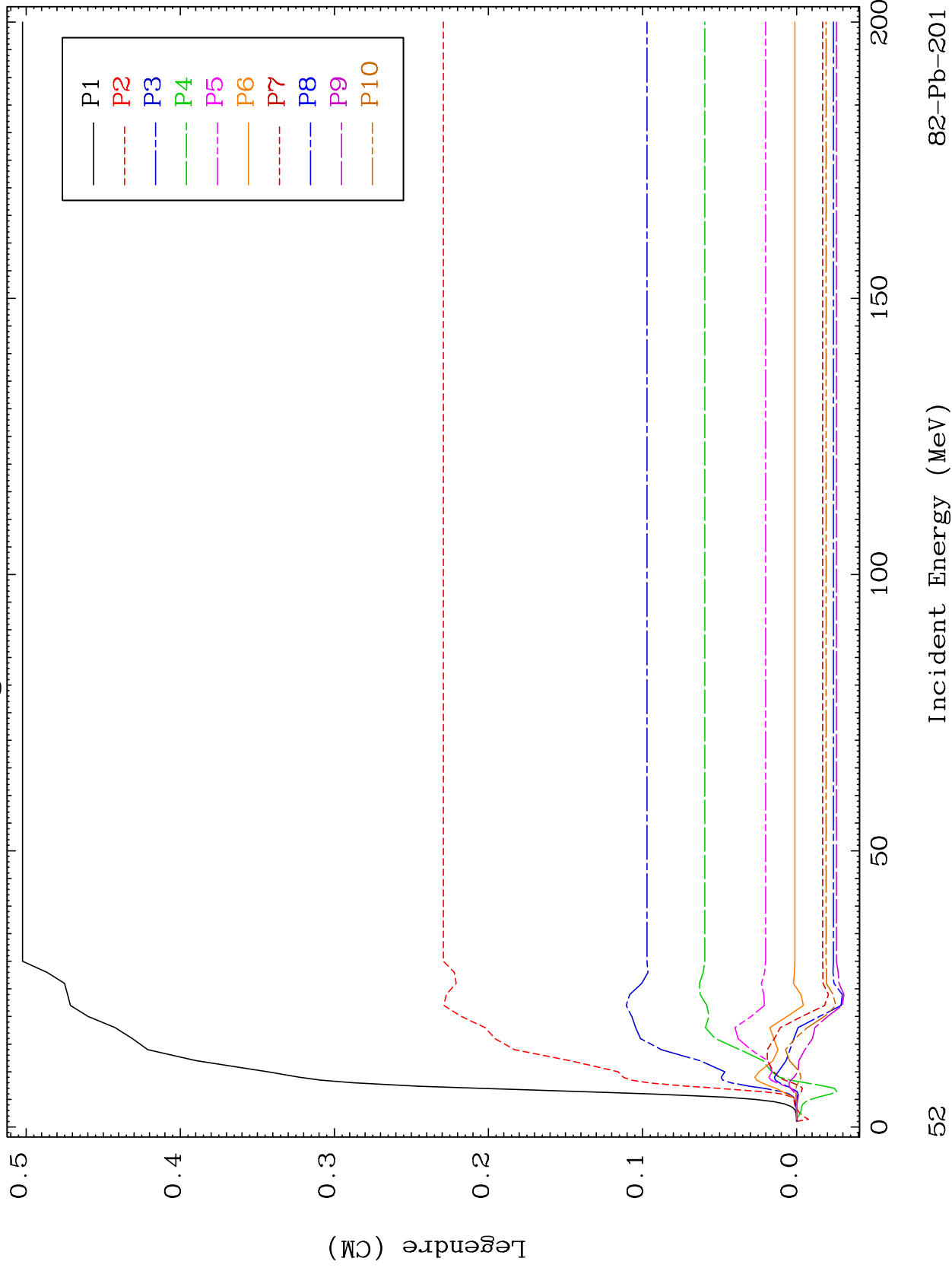
82-Pb-201



MAT 8216

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

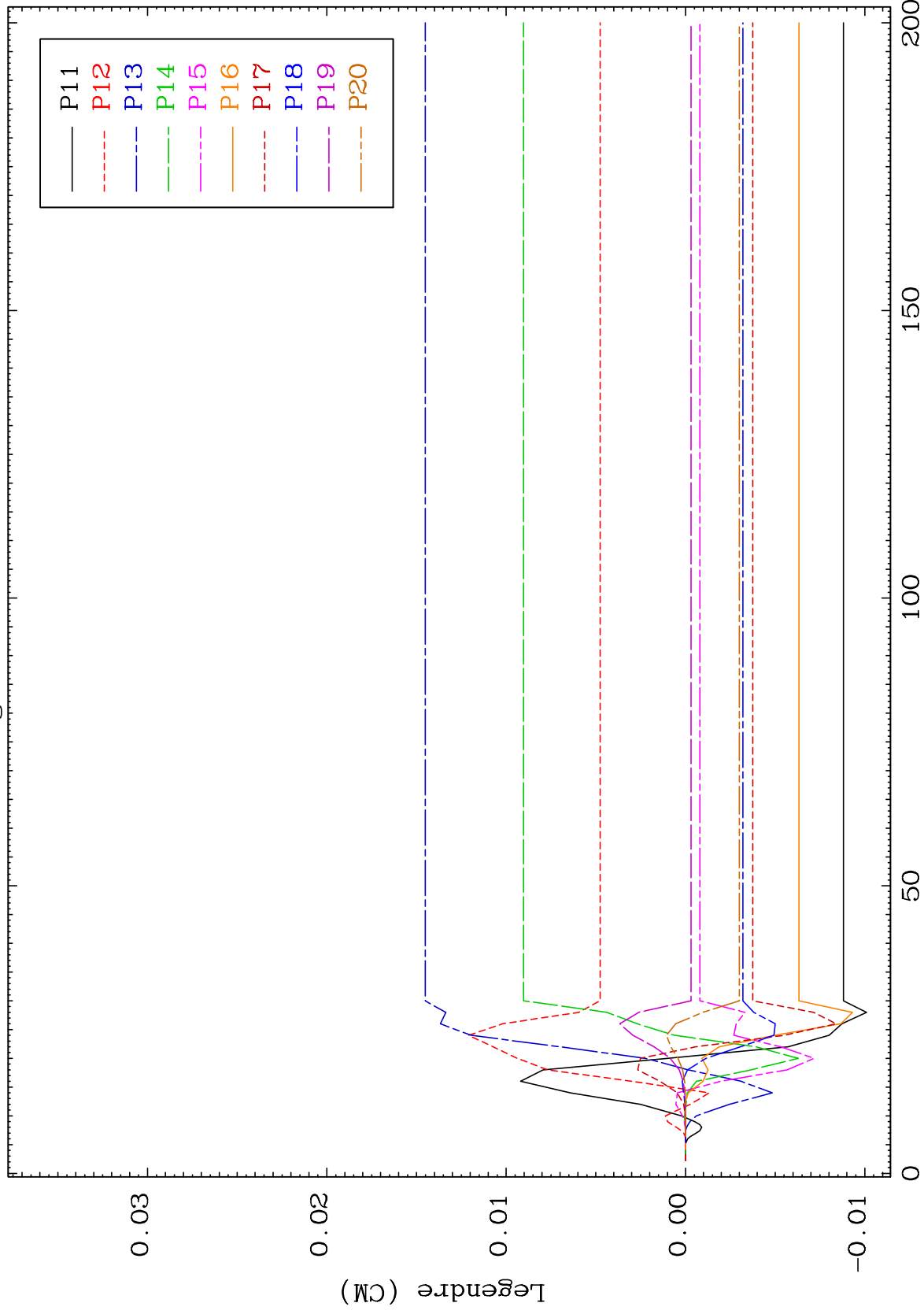
82-Pb-201



MAT 8216

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

82-Pb-201



53

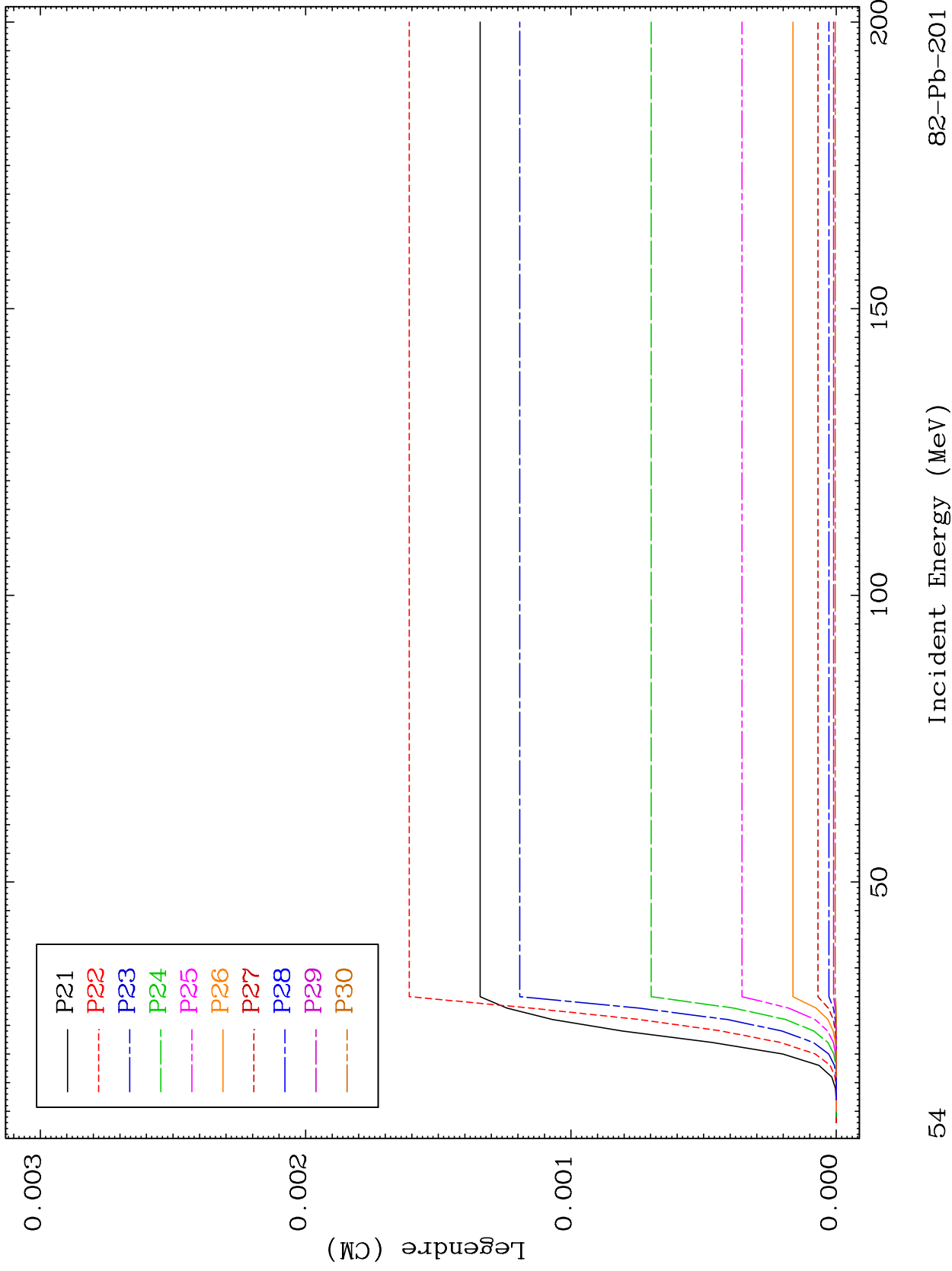
Incident Energy (MeV)

82-Pb-201

MAT 8216

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

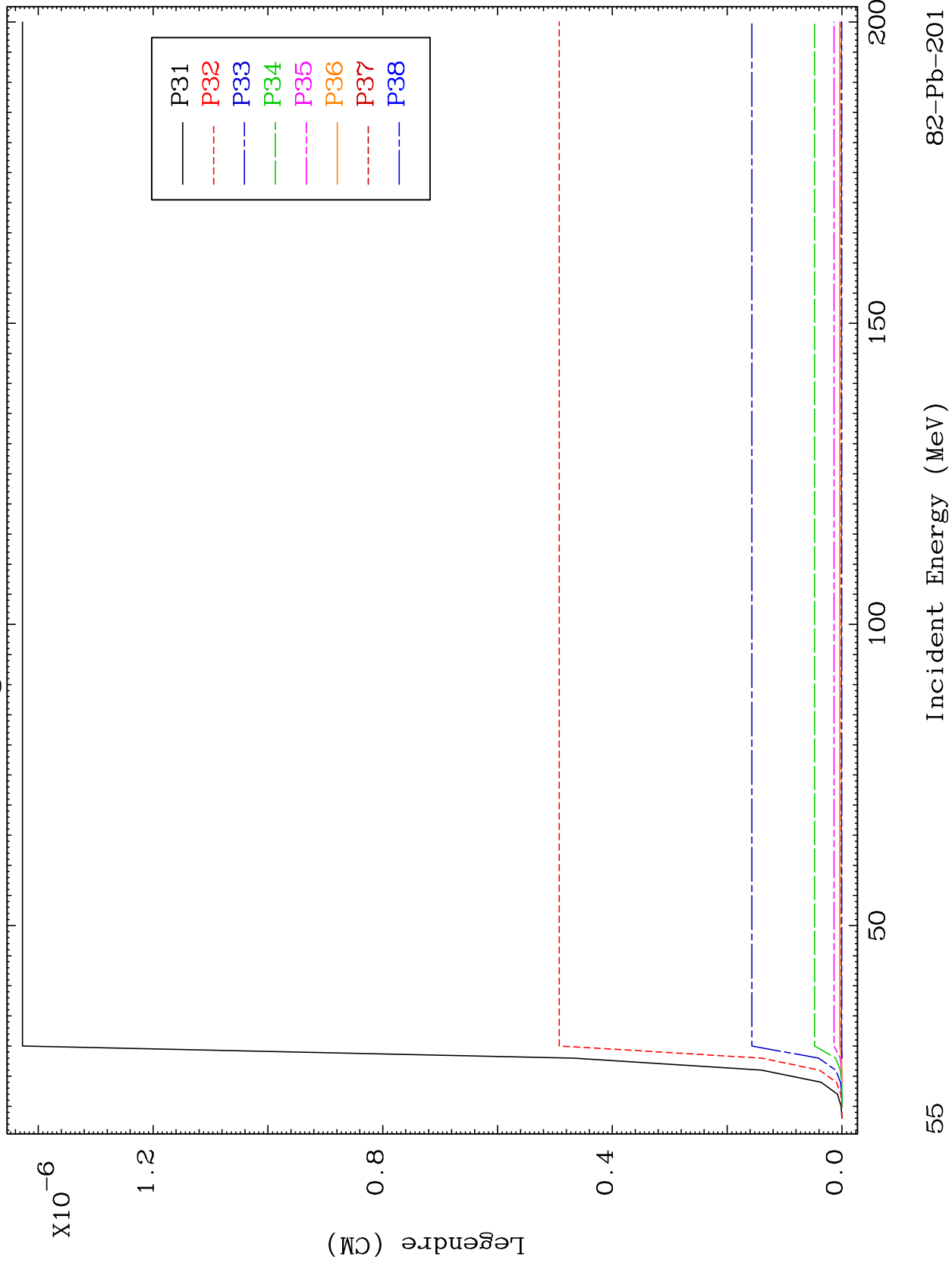
82-Pb-201



MAT 8216

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

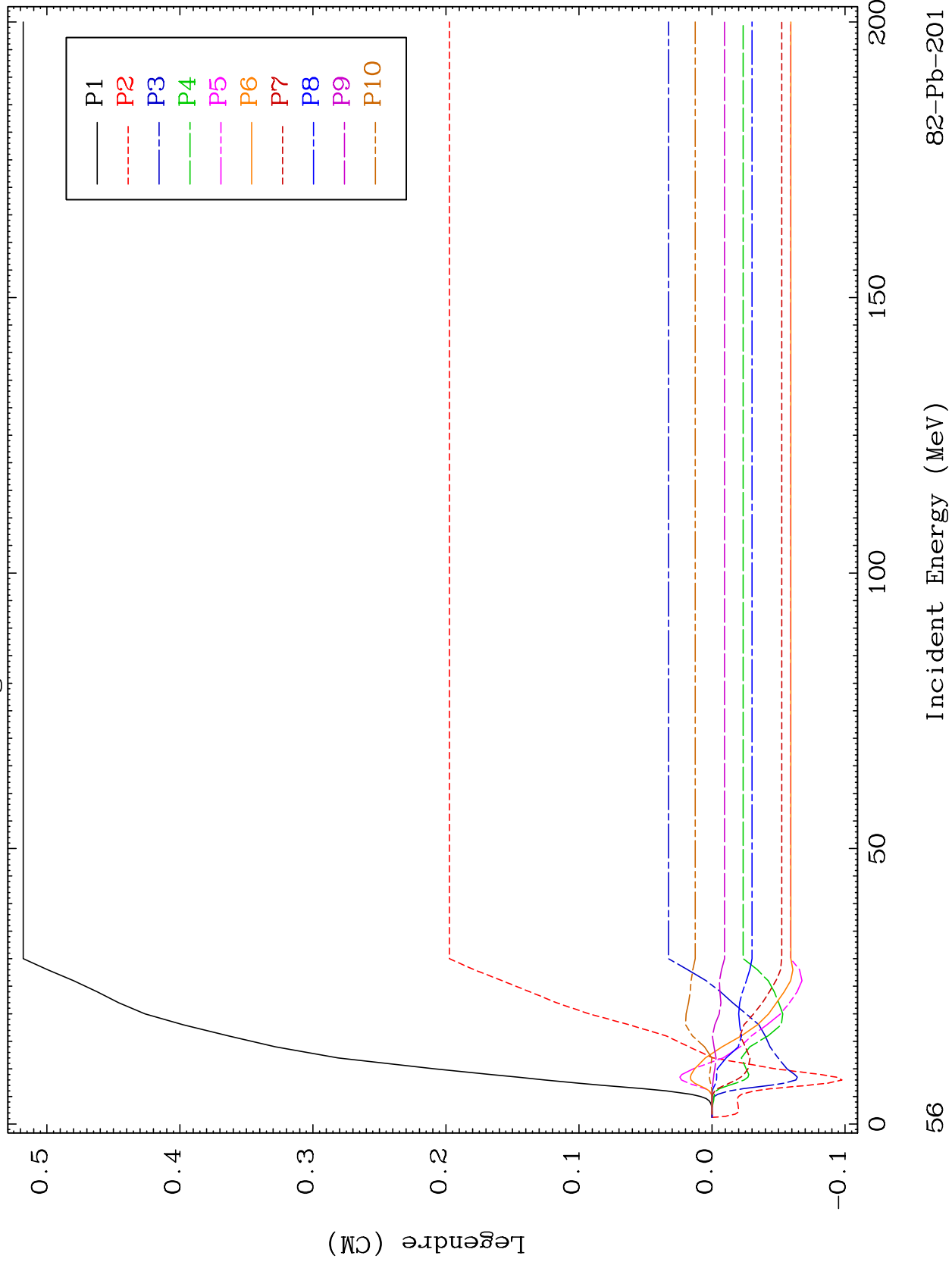
82-Pb-201



MAT 8216

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

82-Pb-201



82-Pb-201

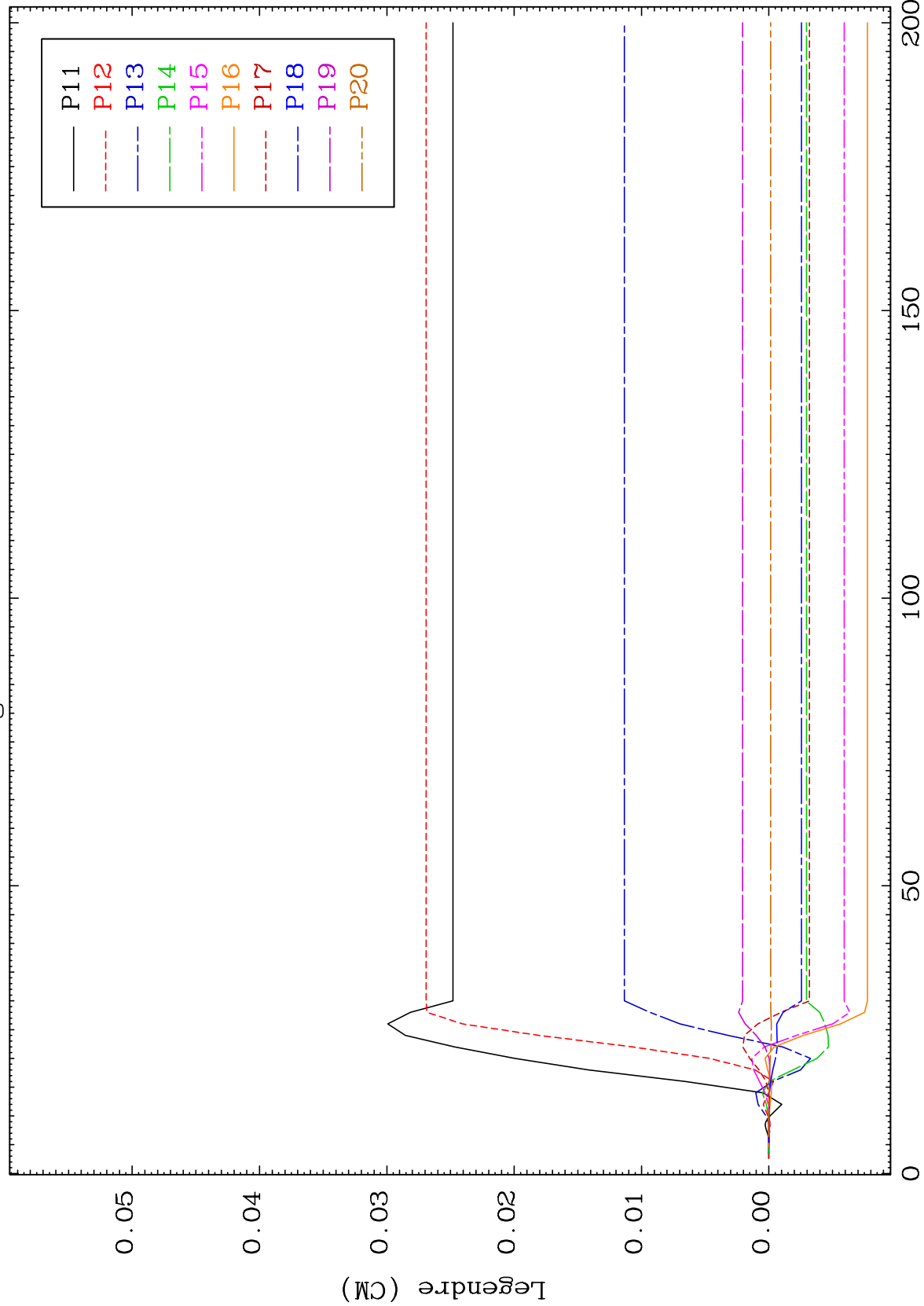
Incident Energy (MeV)

56

MAT 8216

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

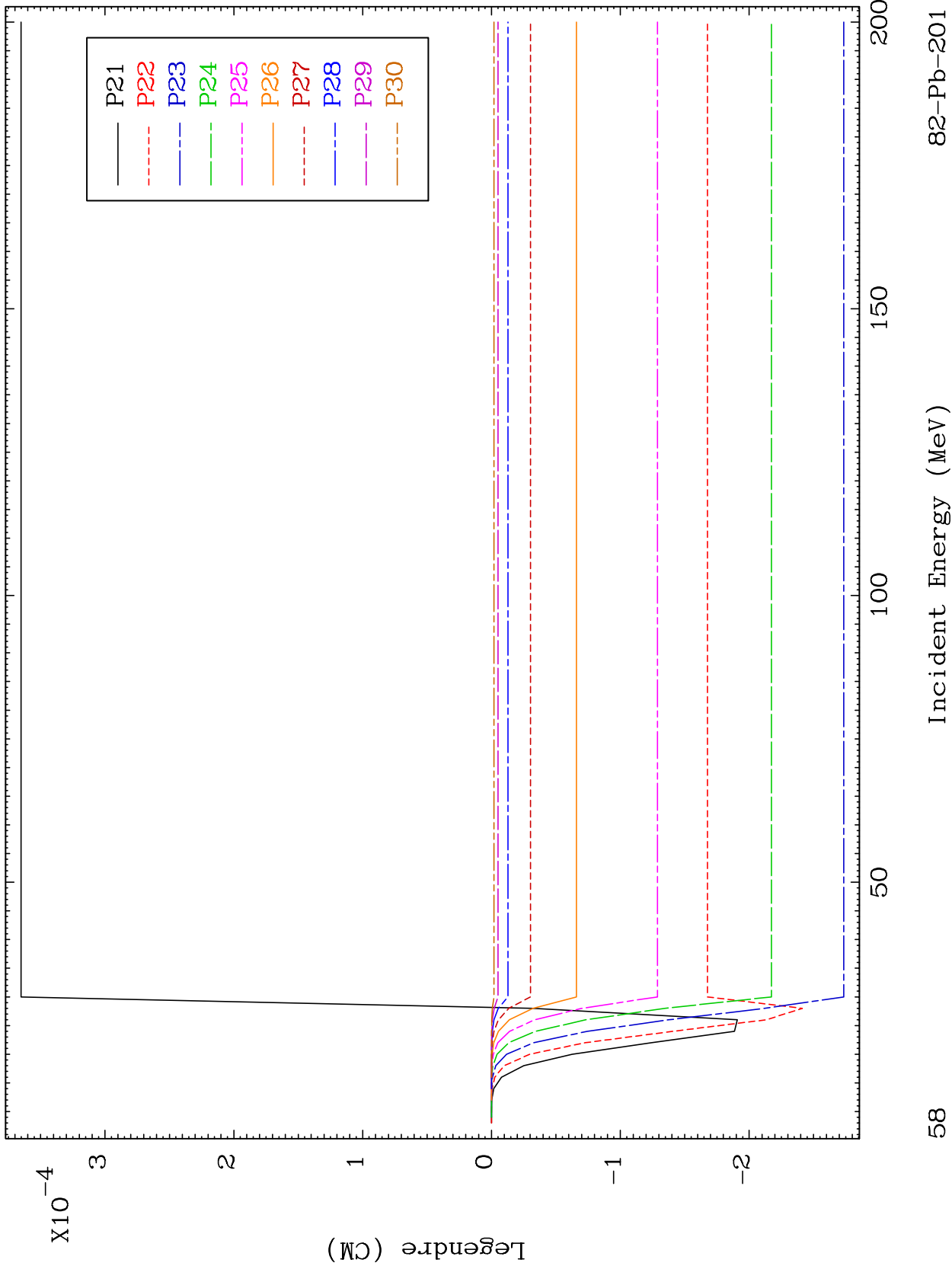
82-Pb-201



MAT 8216

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

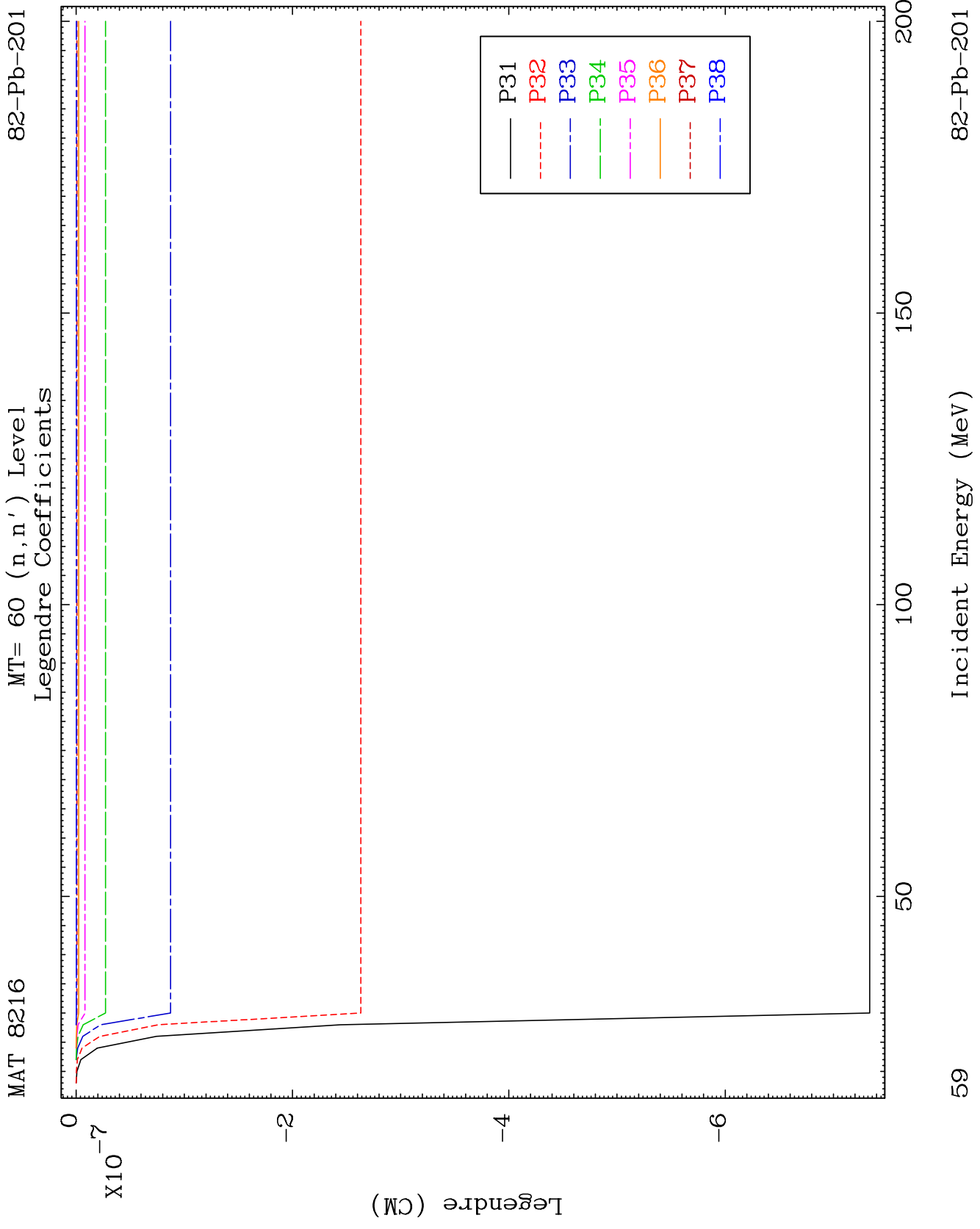
82-Pb-201

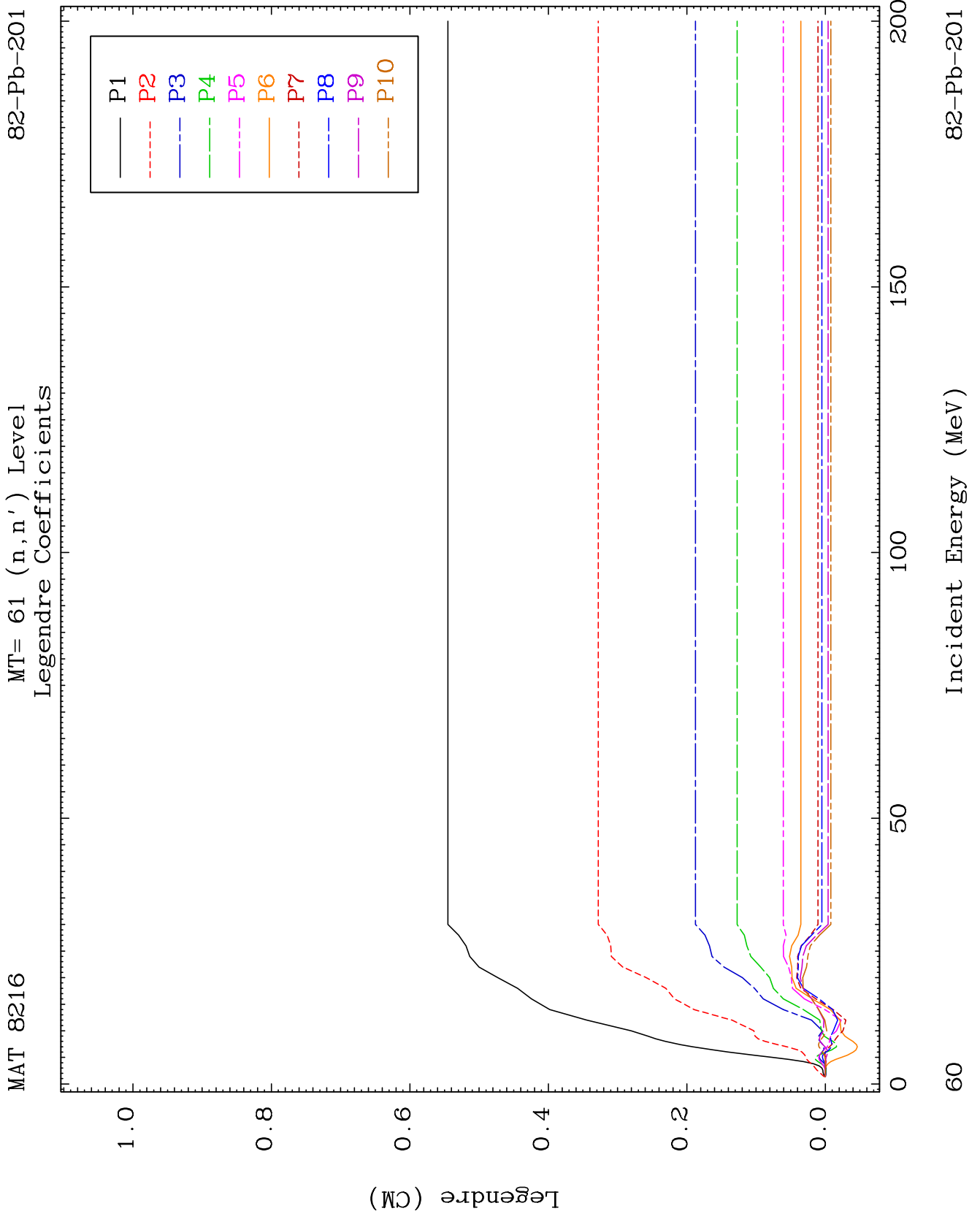


58

Incident Energy (MeV)

82-Pb-201

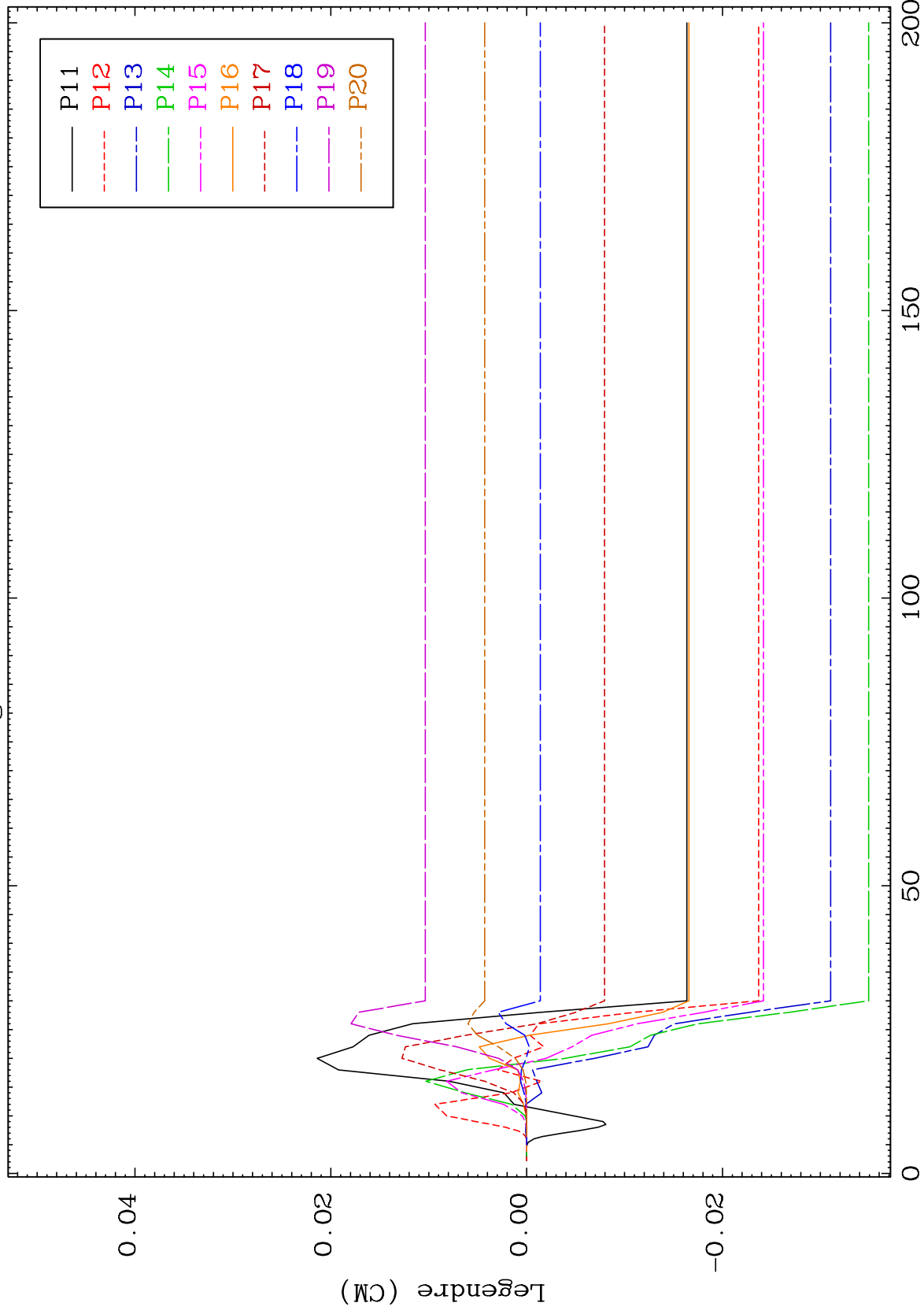




MAT 8216

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

82-Pb-201



61

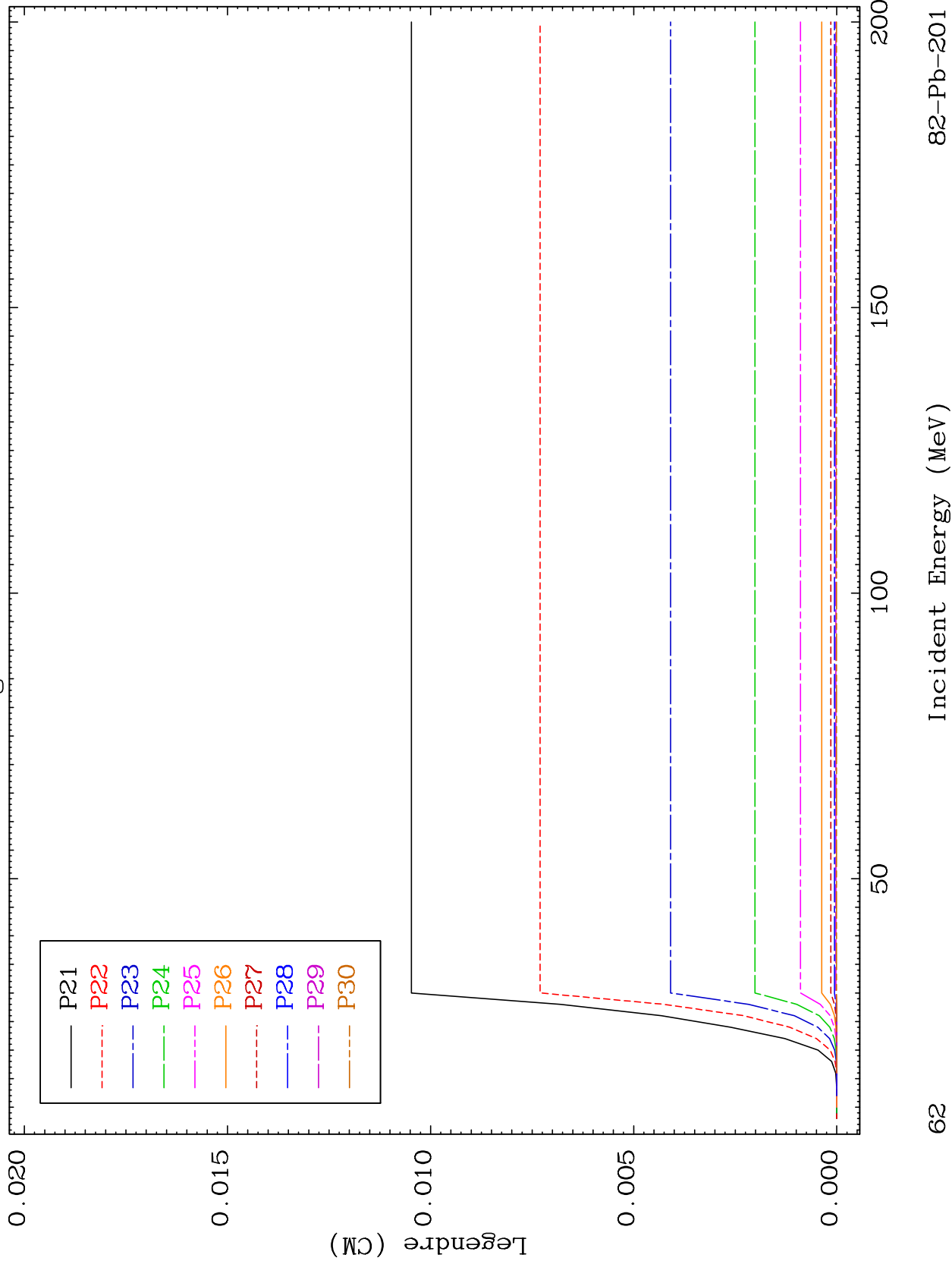
Incident Energy (MeV)

82-Pb-201

MAT 8216

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

82-Pb-201



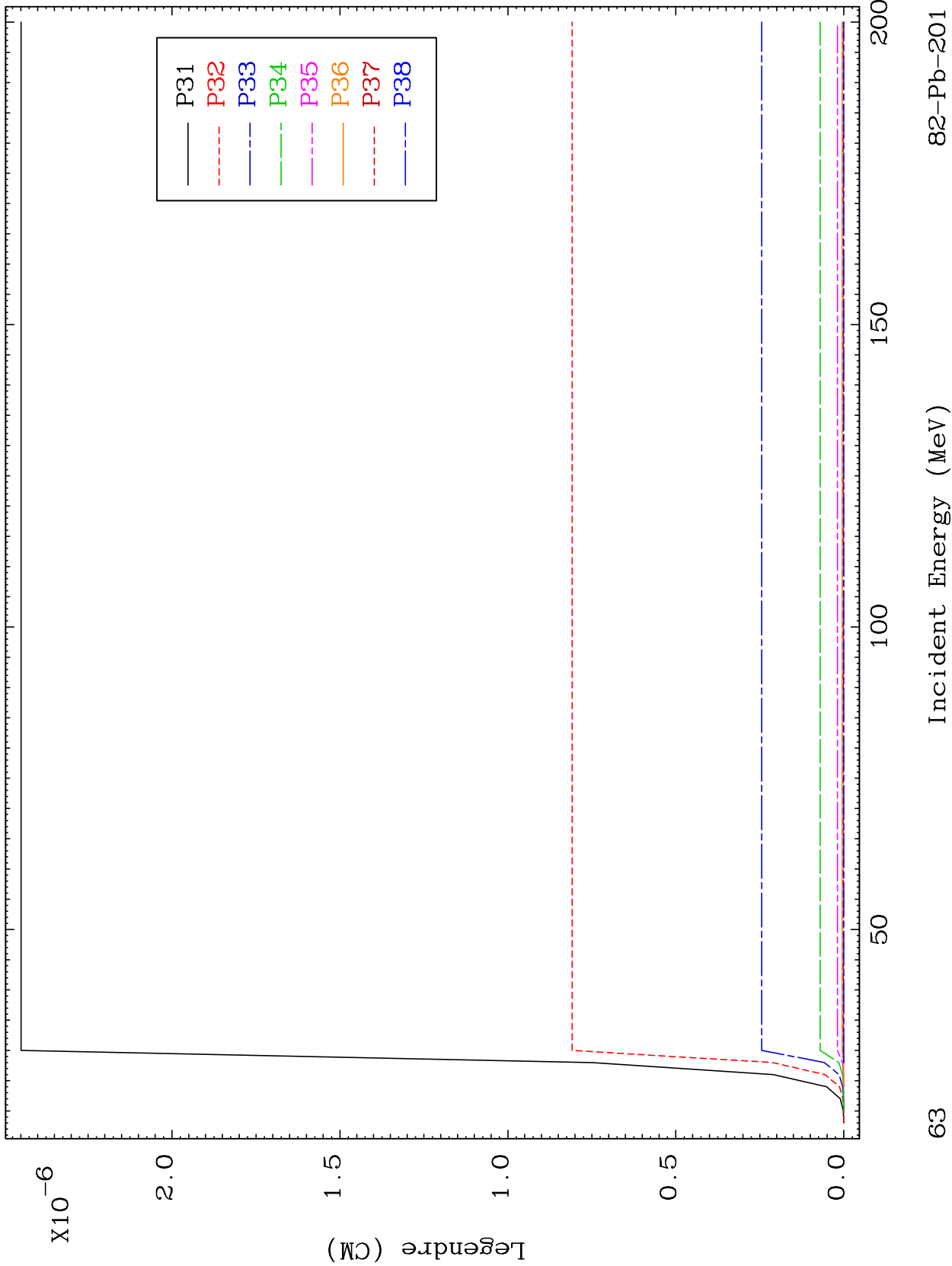
62

82-Pb-201

MAT 8216

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

82-Pb-201



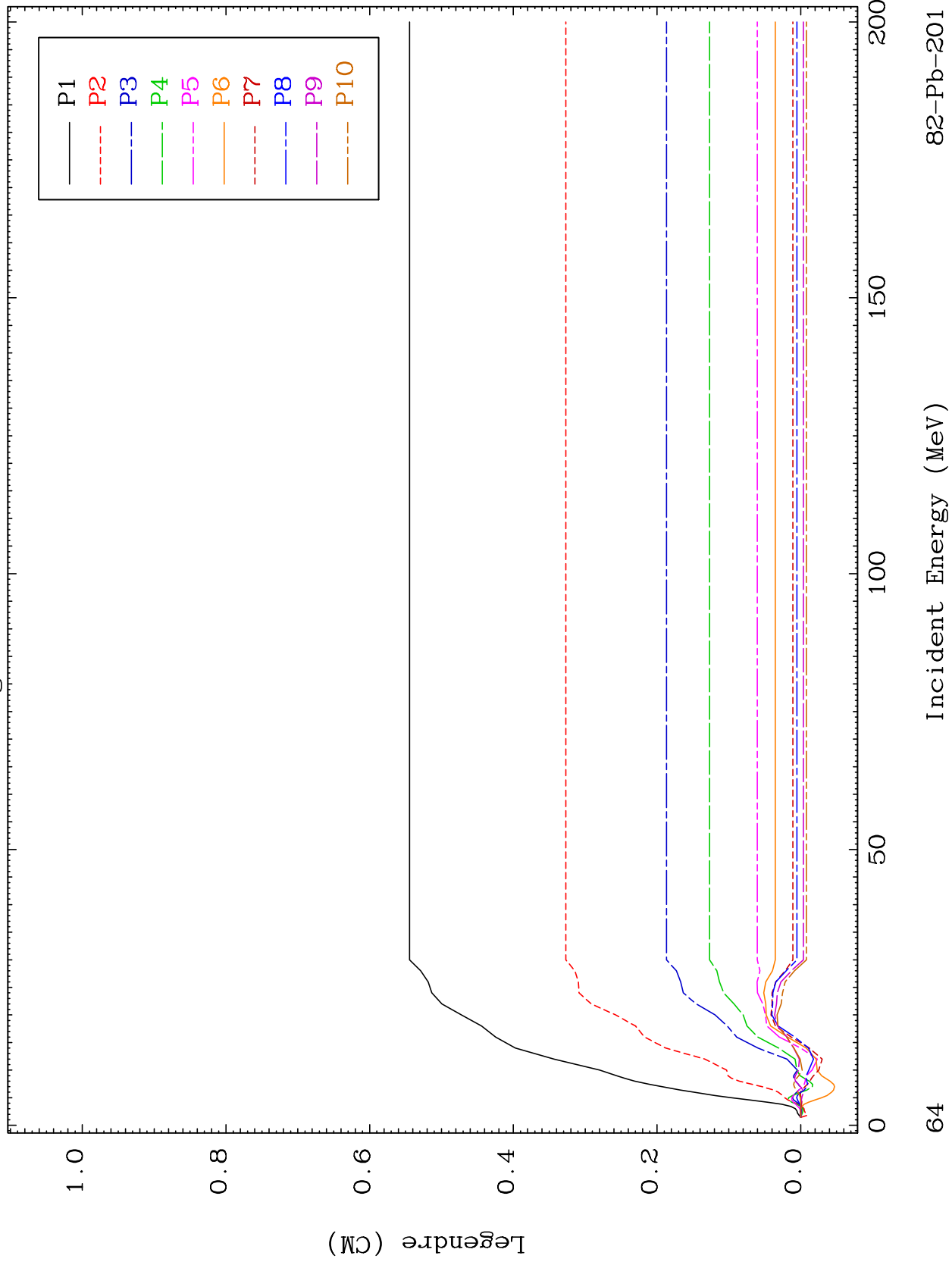
63

82-Pb-201

MAT 8216

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

82-Pb-201



82-Pb-201

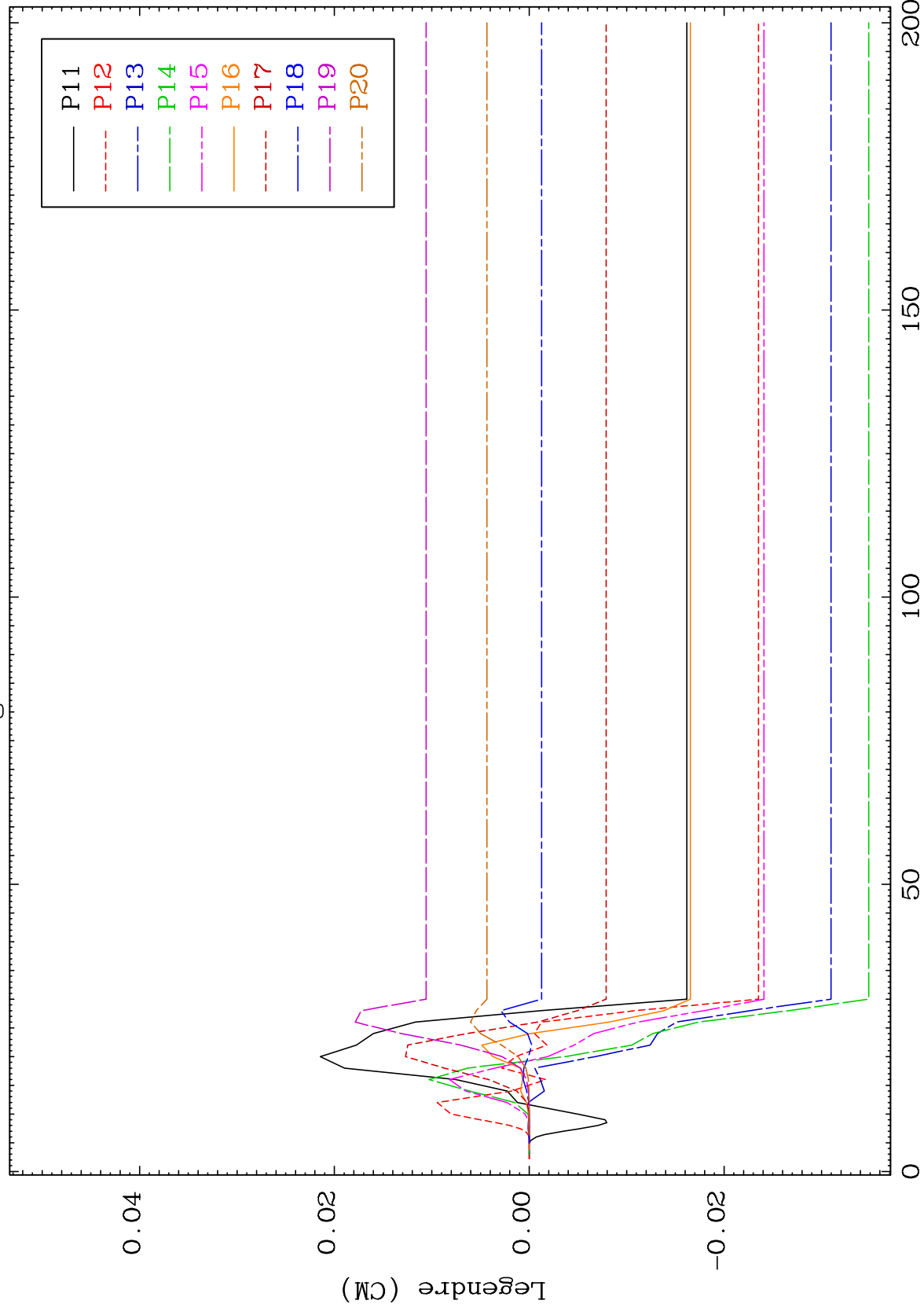
Incident Energy (MeV)

64

MAT 8216

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

82-Pb-201



65

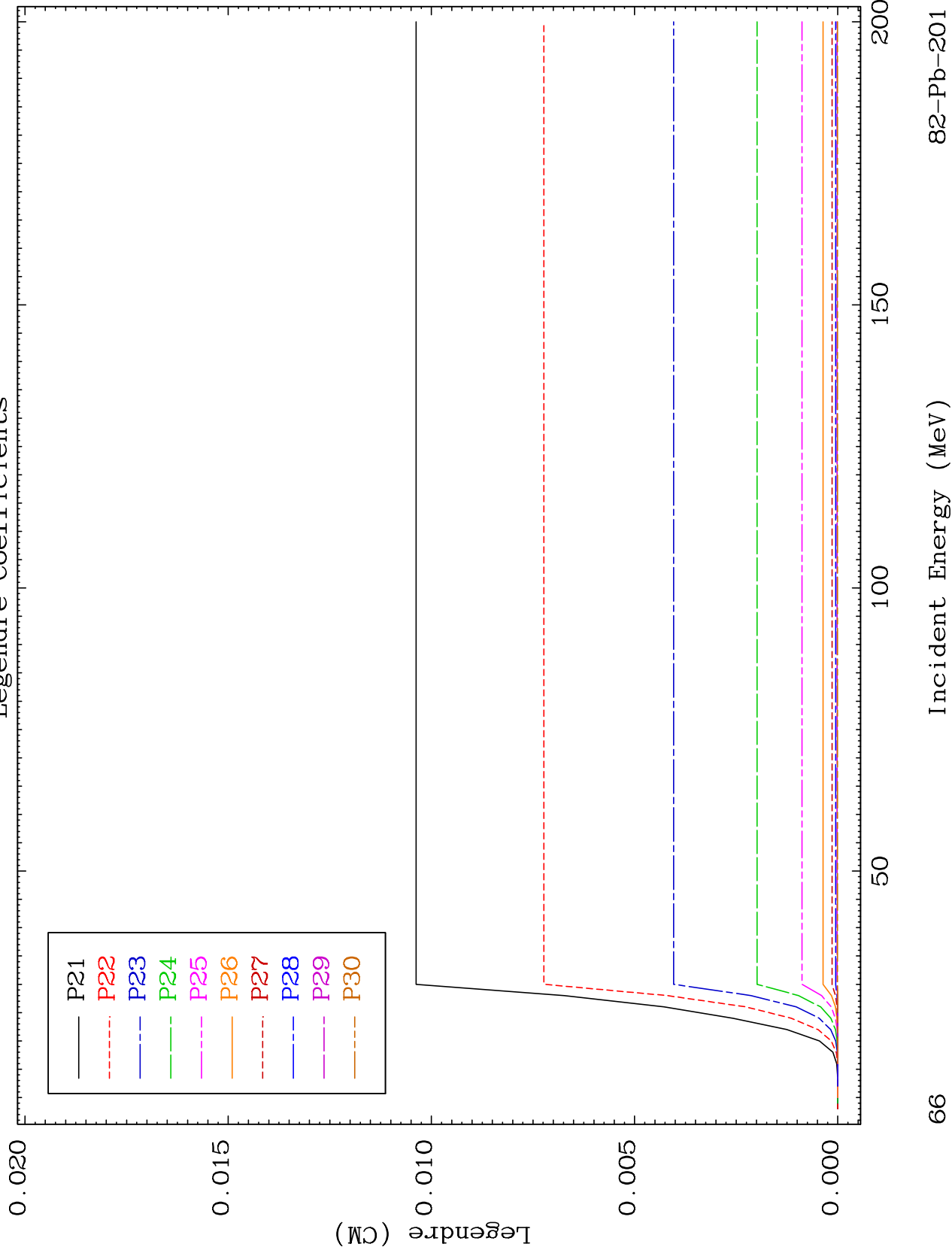
Incident Energy (MeV)

82-Pb-201

MAT 8216

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

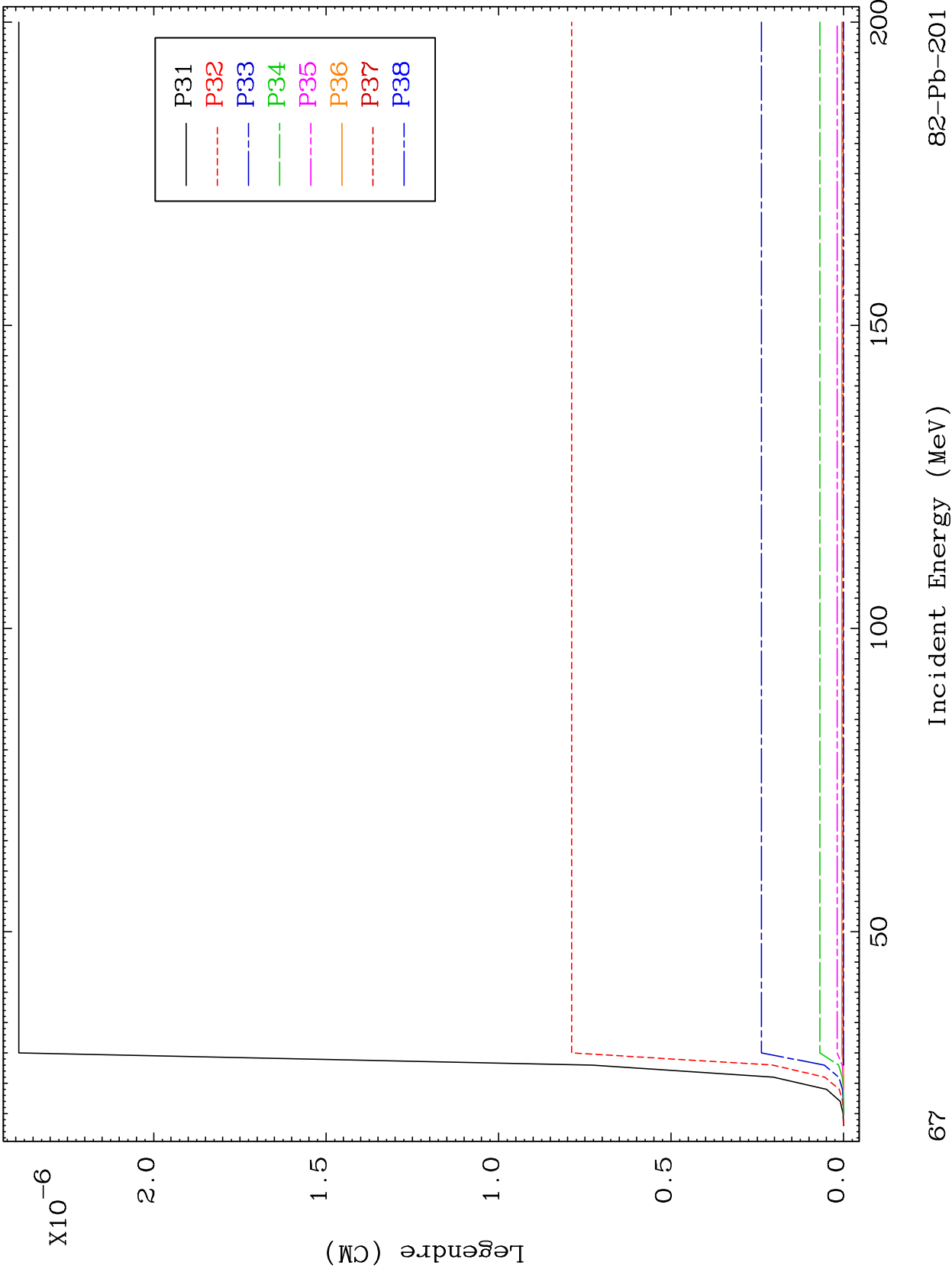
82-Pb-201



MAT 8216

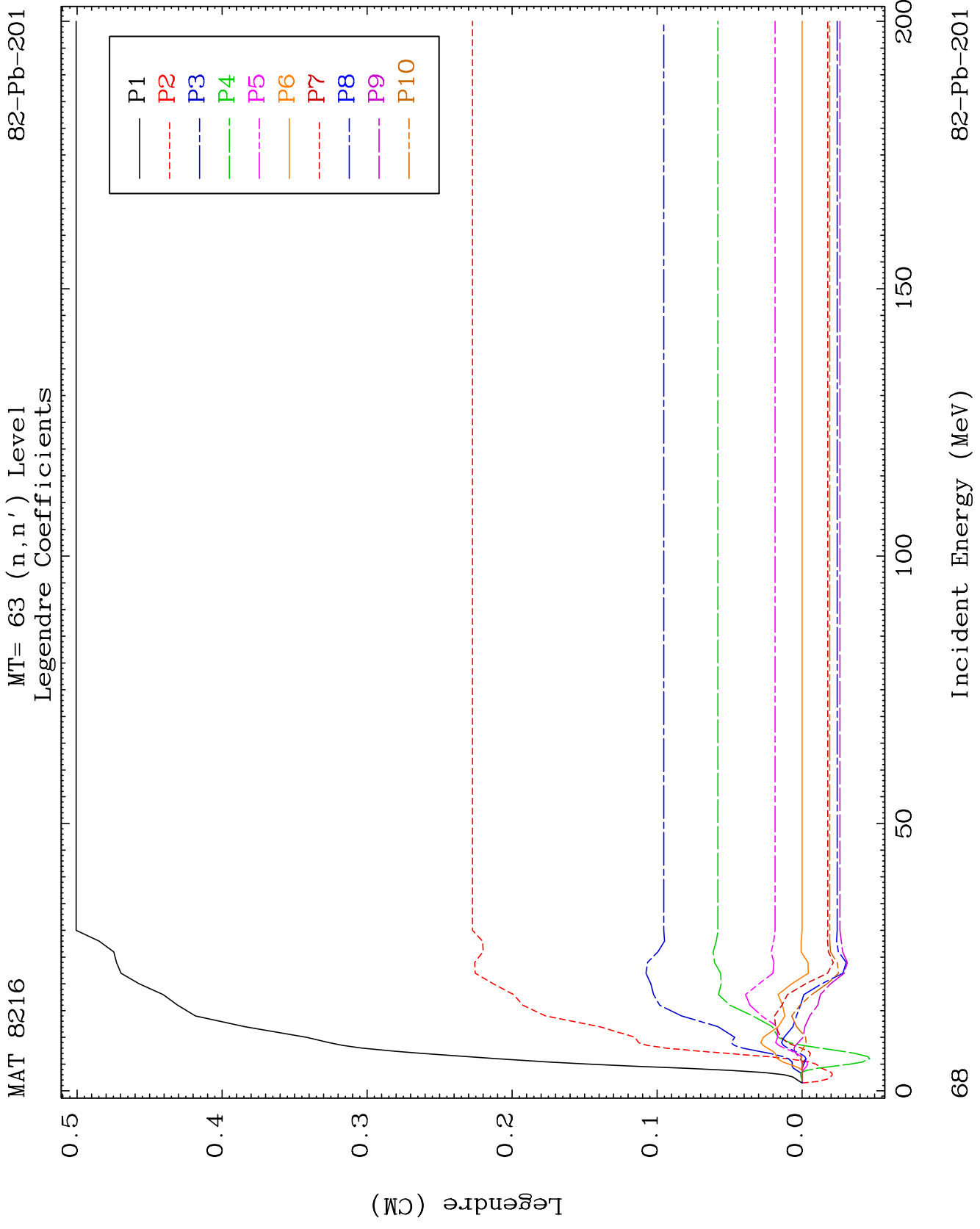
MT= 62 (n,n') Level
Legendre Coefficients

82-Pb-201



67

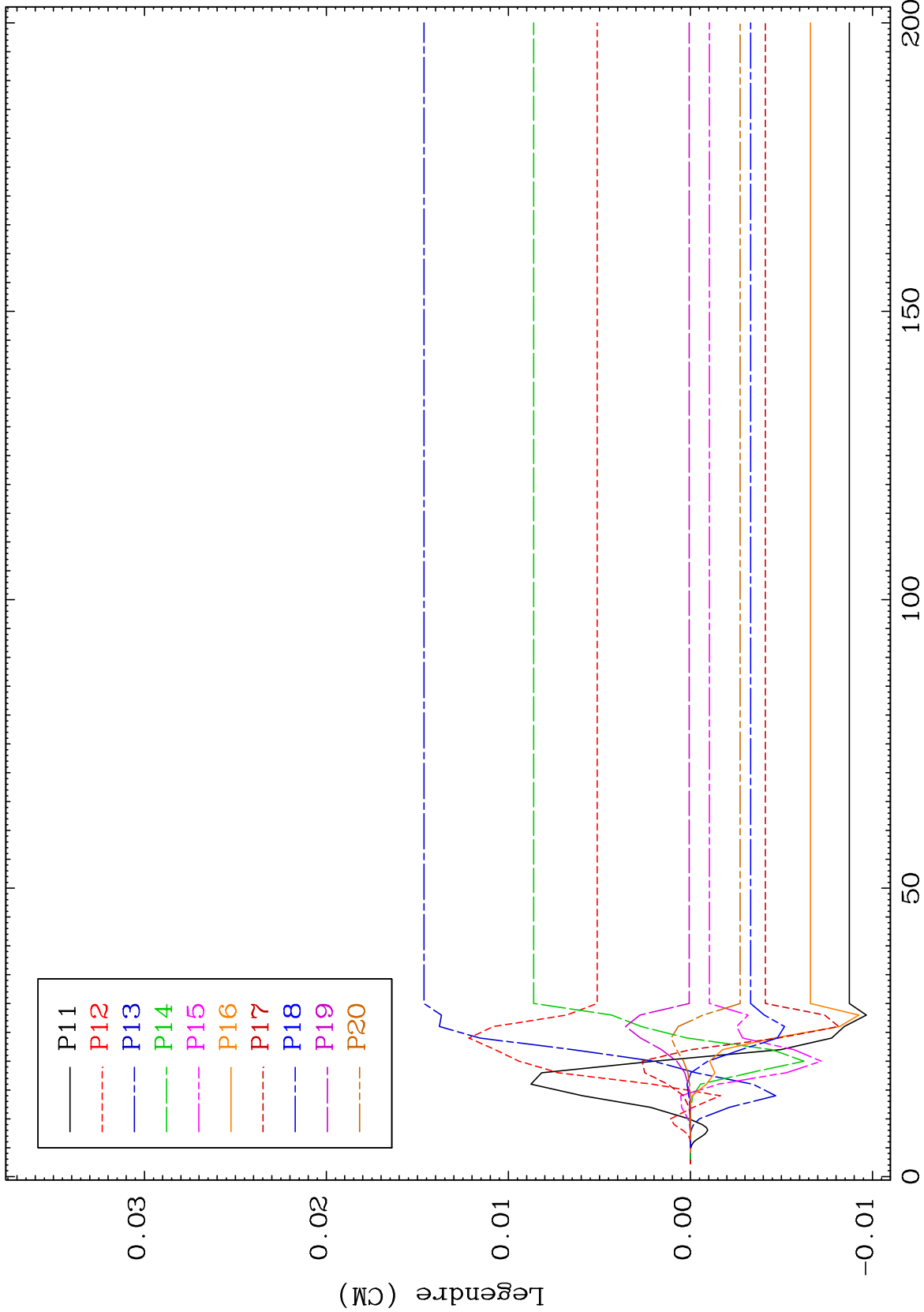
82-Pb-201



MAT 8216

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

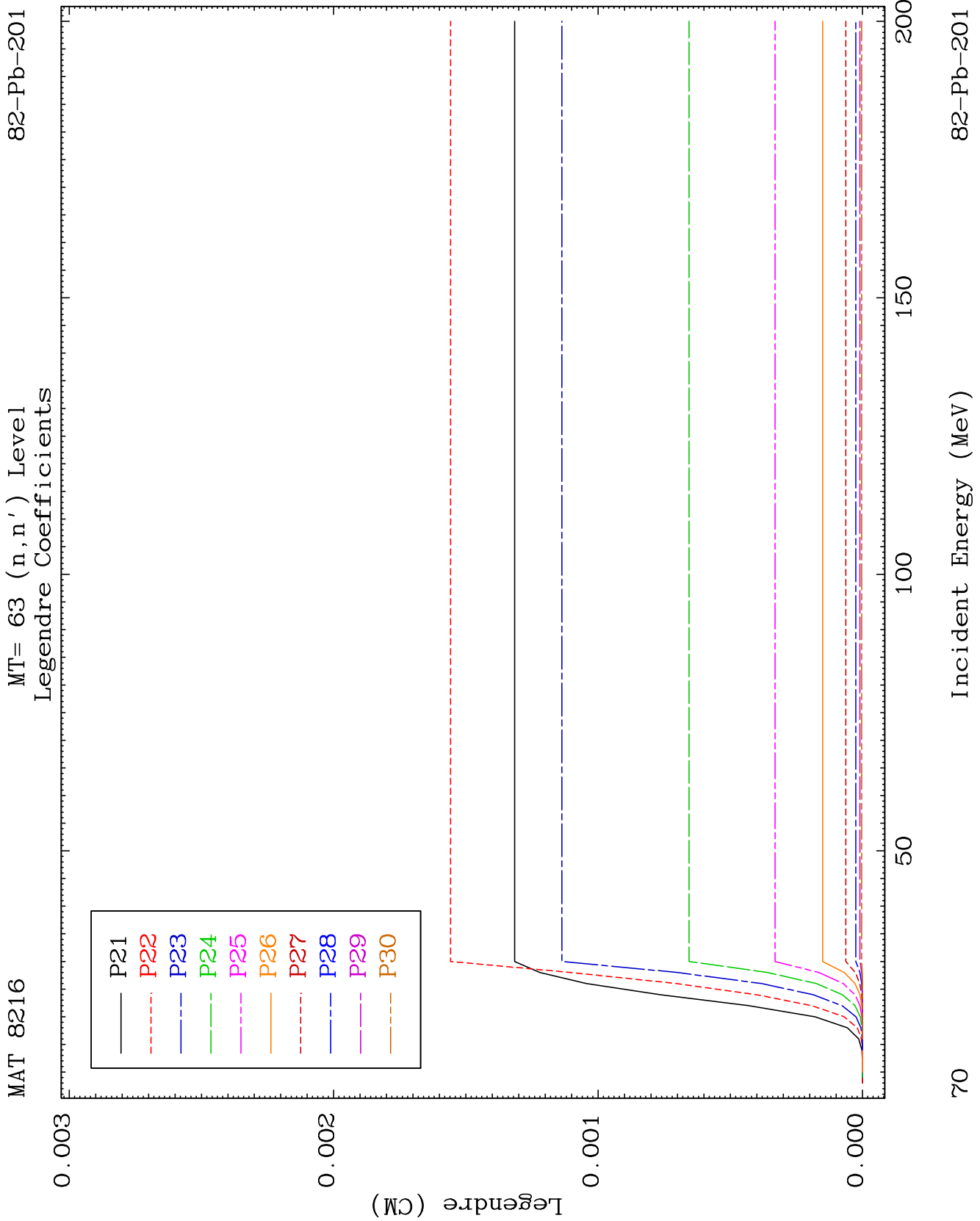
82-Pb-201



69

Incident Energy (MeV)

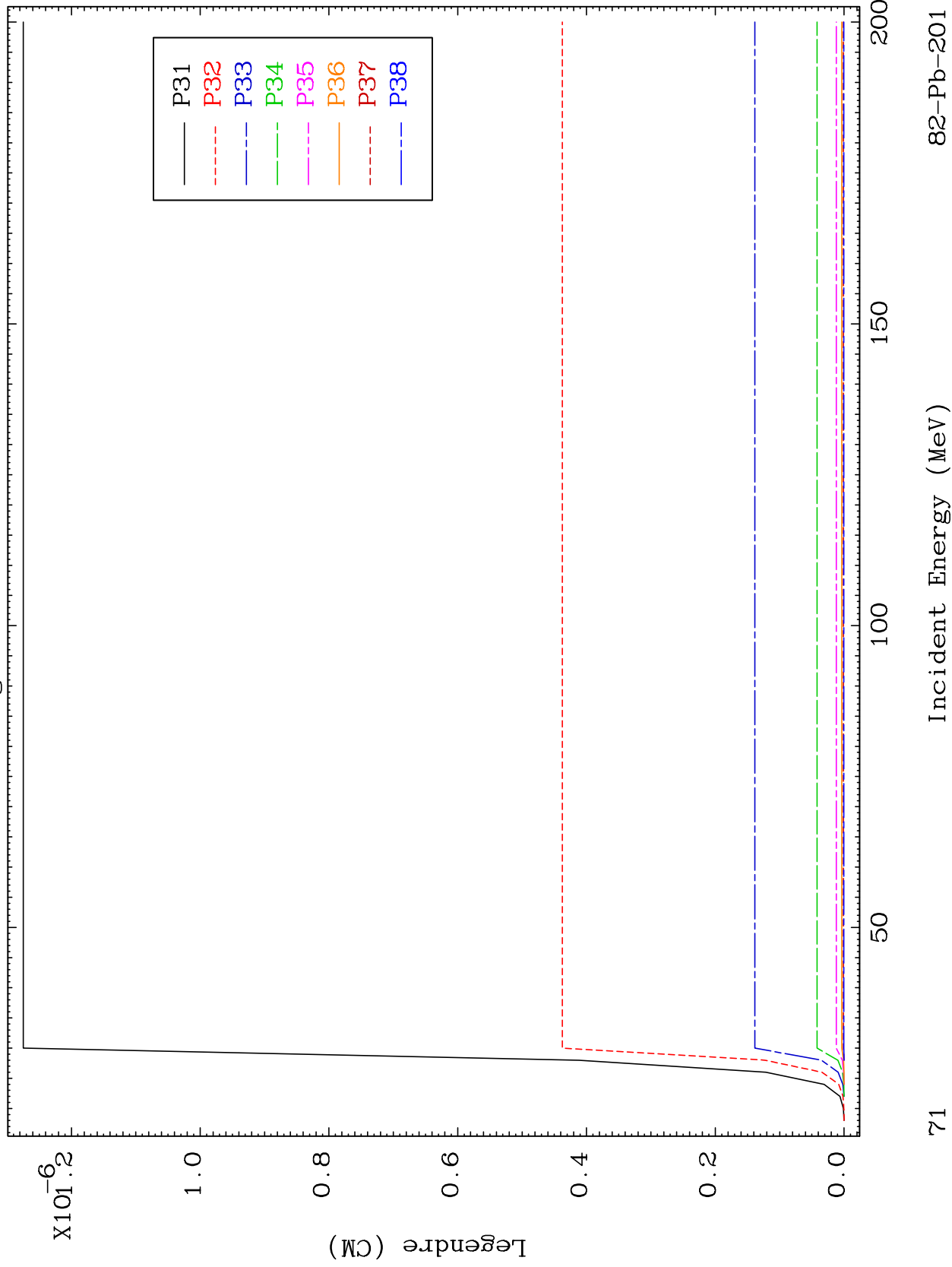
82-Pb-201



MAT 8216

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

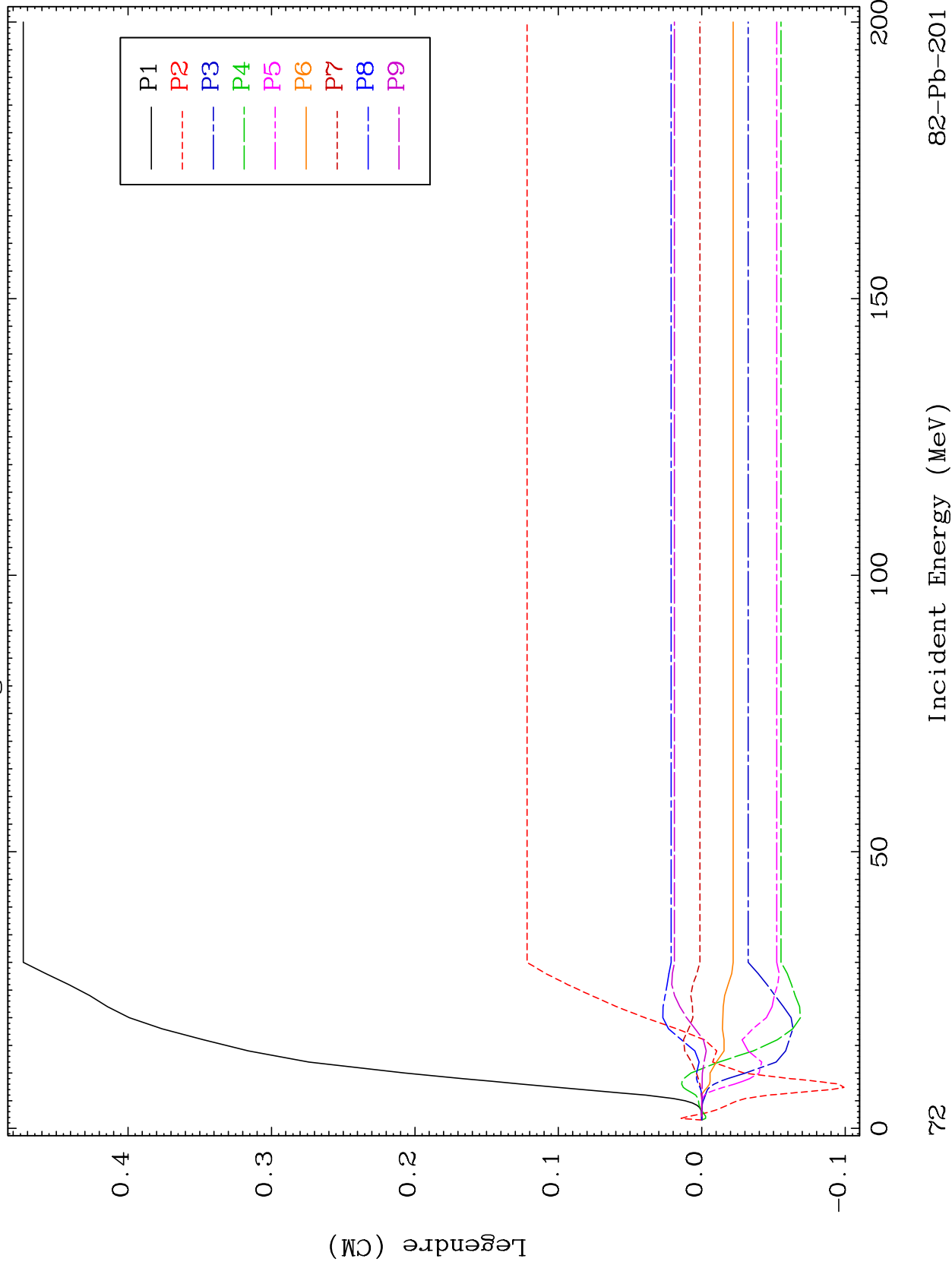
82-Pb-201



MAT 8216

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

82-Pb-201



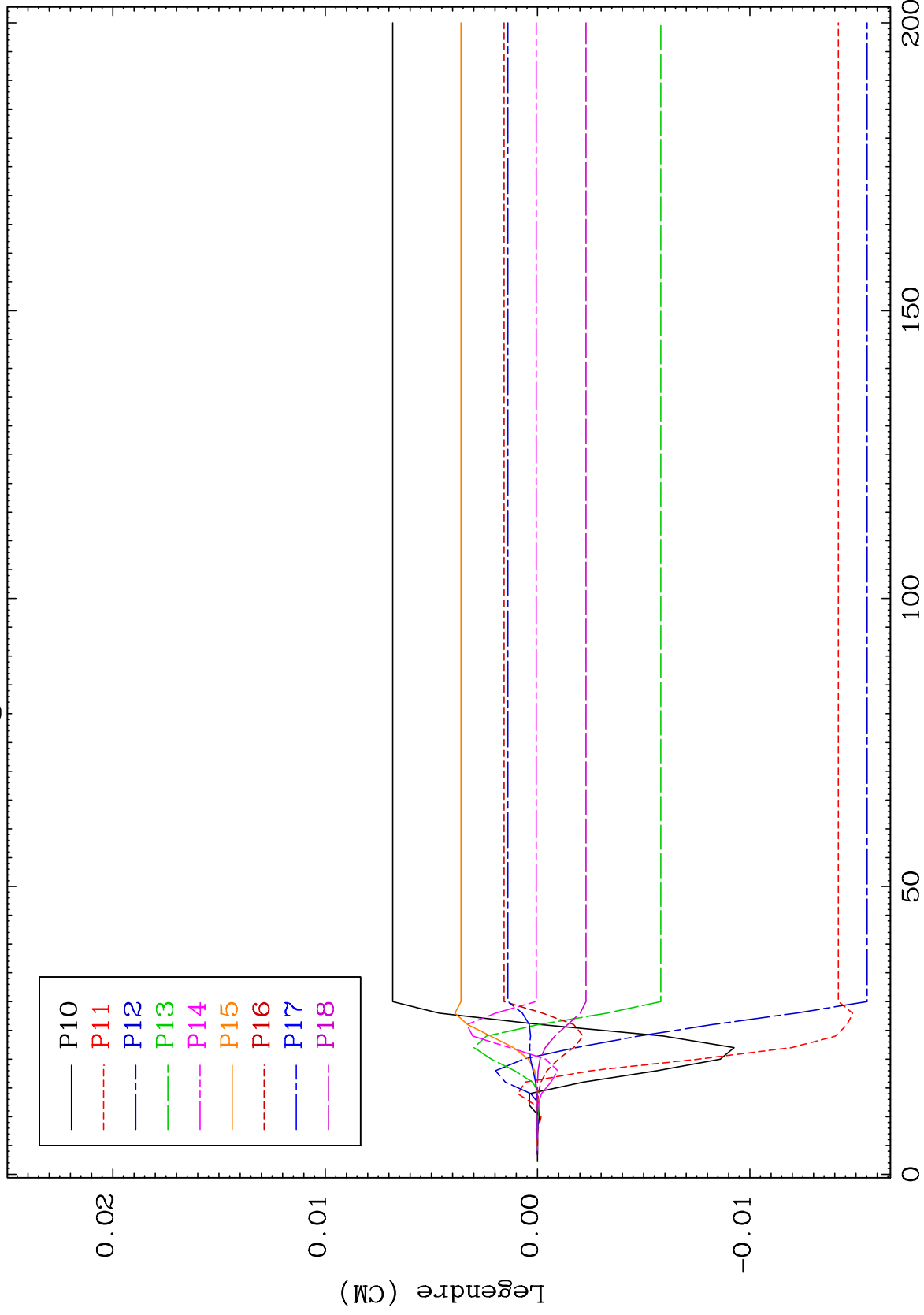
72

82-Pb-201

MAT 8216

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

82-Pb-201



73

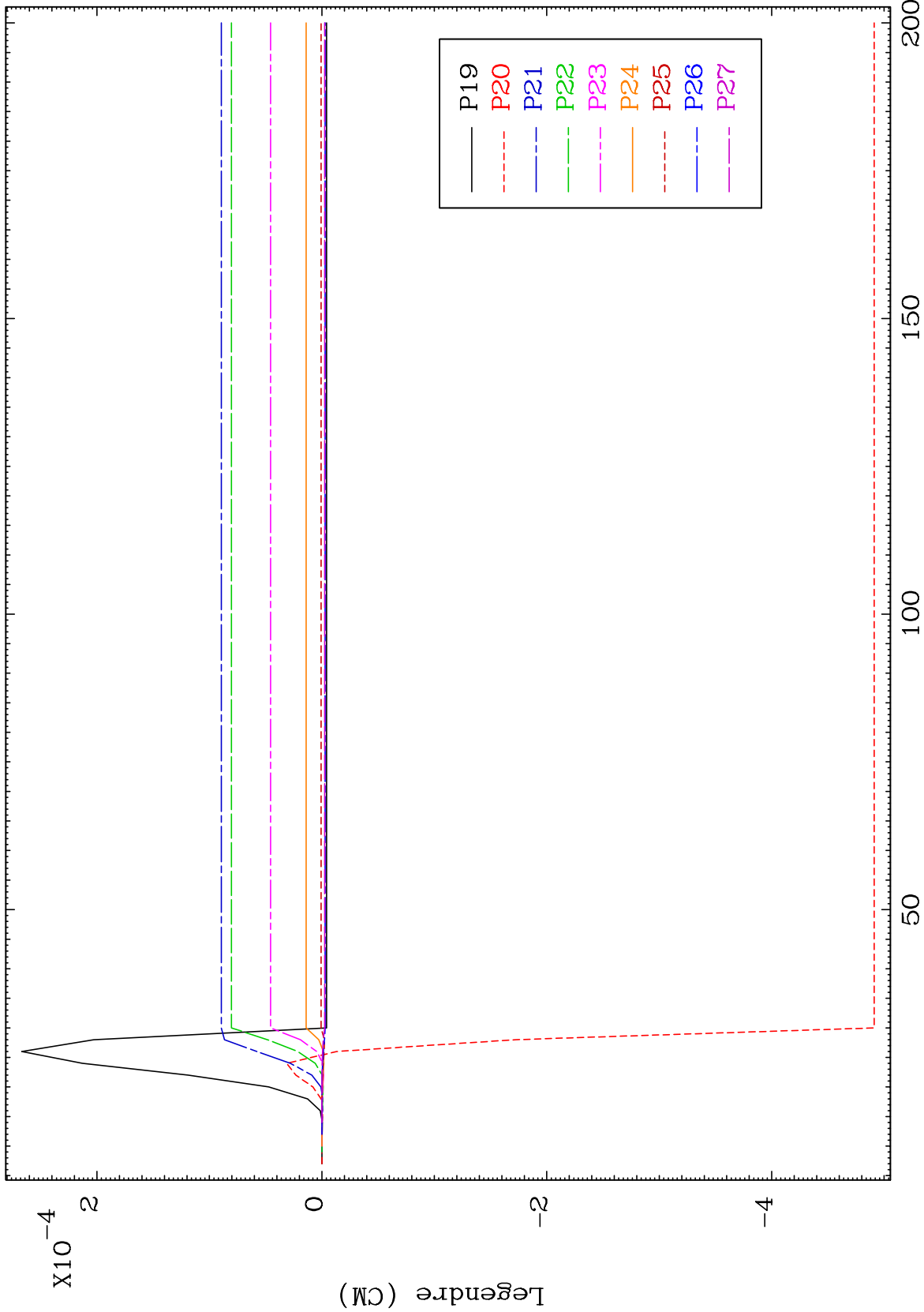
Incident Energy (MeV)

82-Pb-201

MAT 8216

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

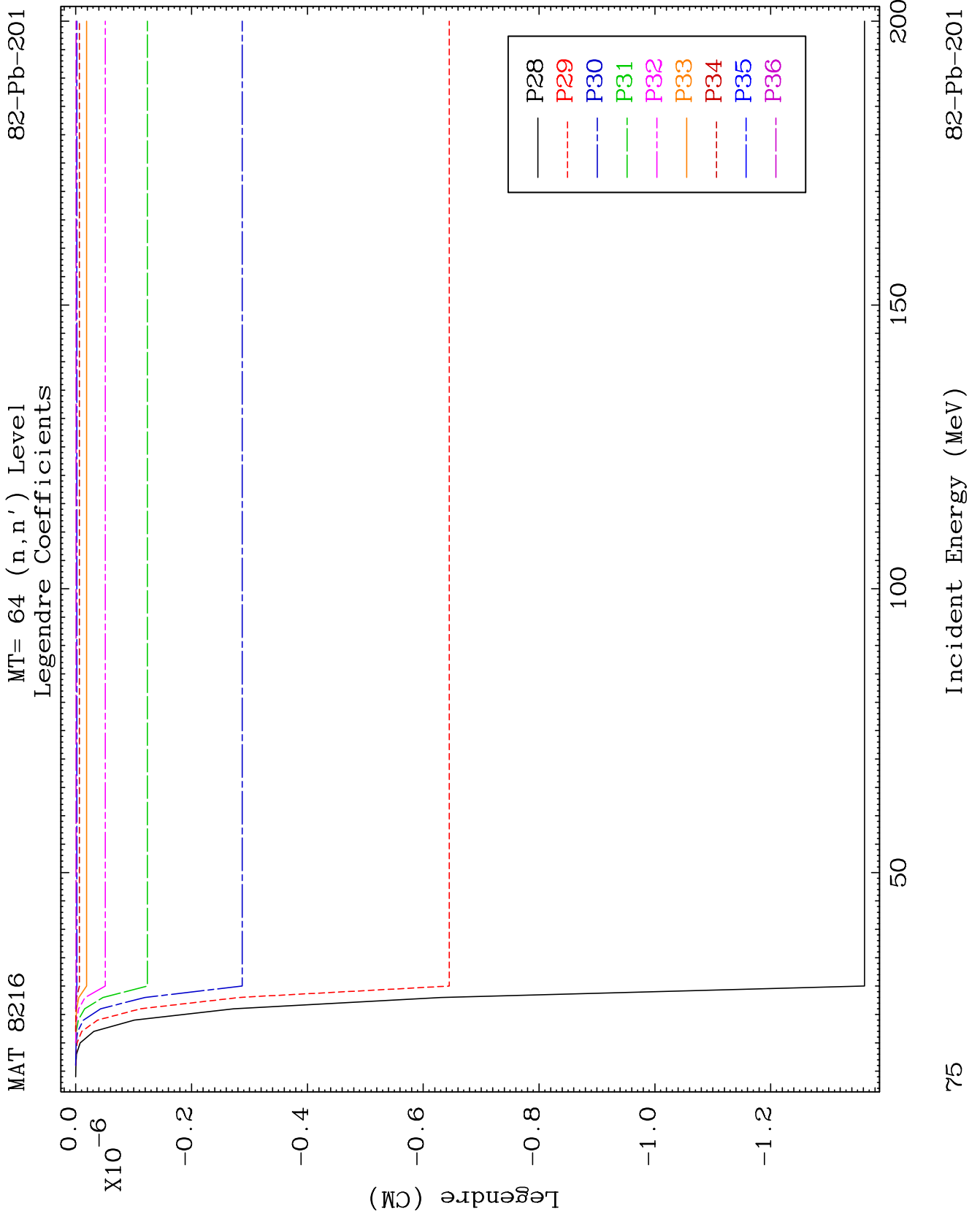
82-Pb-201



74

Incident Energy (MeV)

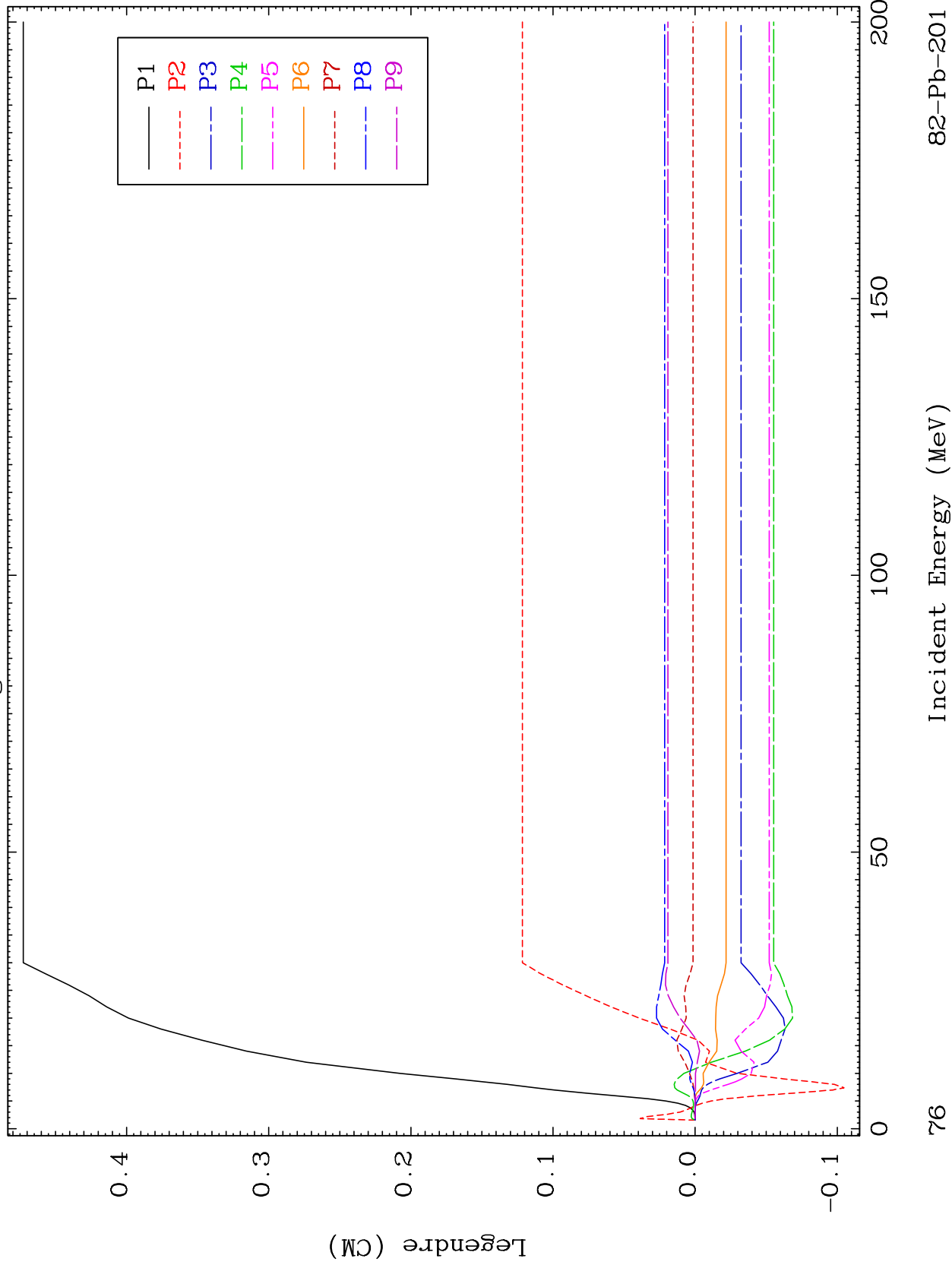
82-Pb-201



MAT 8216

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

82-Pb-201



82-Pb-201

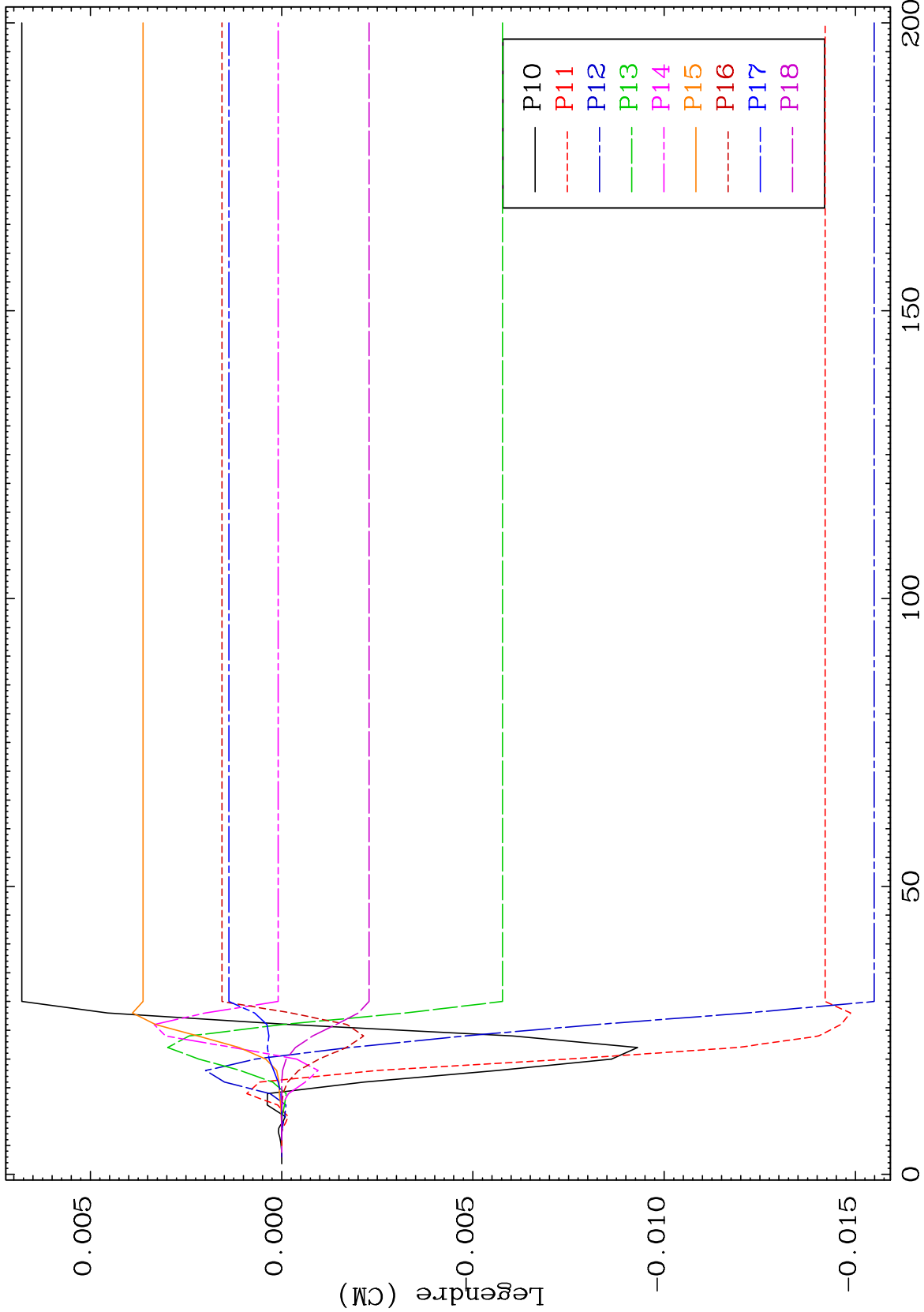
Incident Energy (MeV)

76

MAT 8216

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

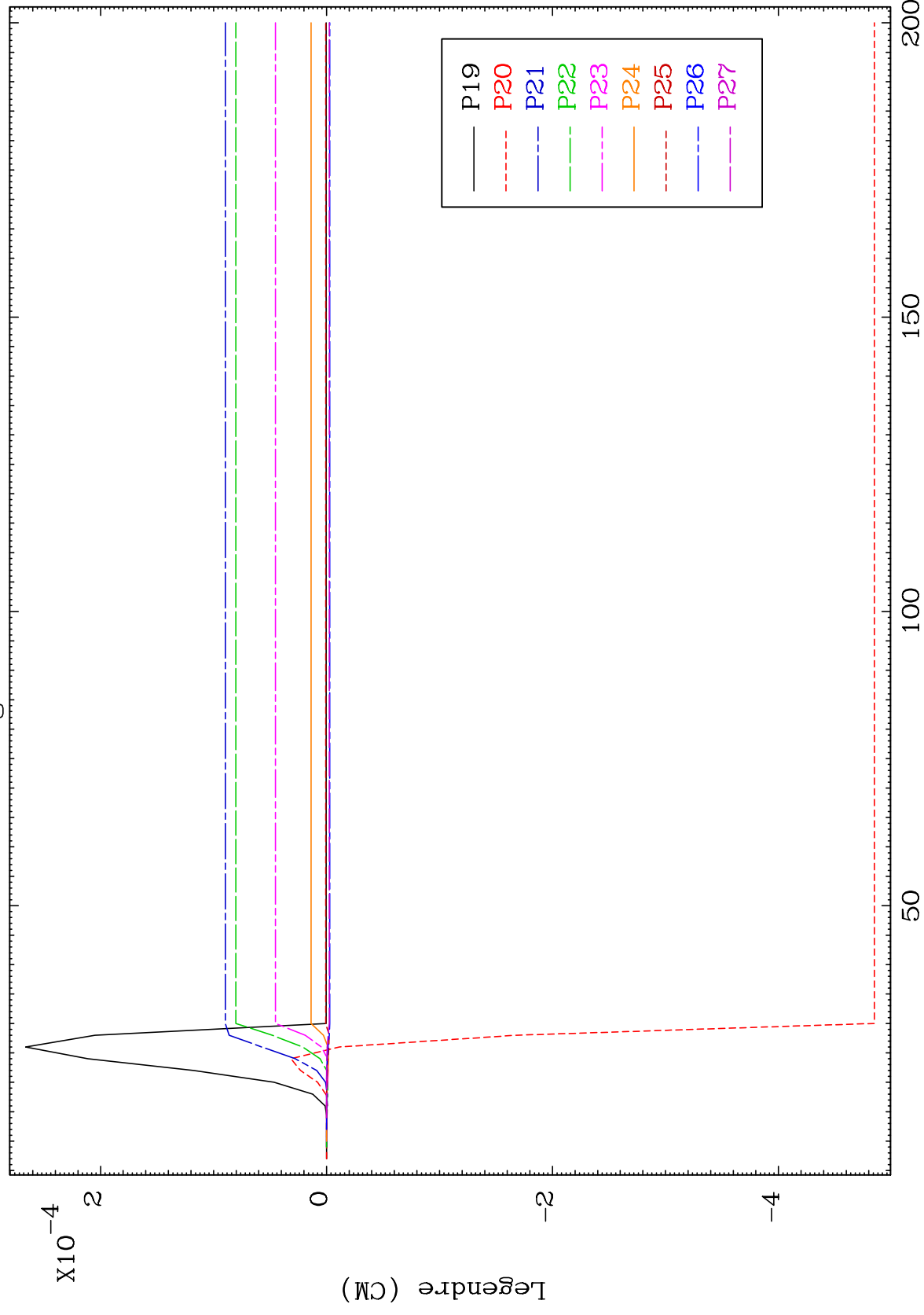
82-Pb-201



MAT 8216

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

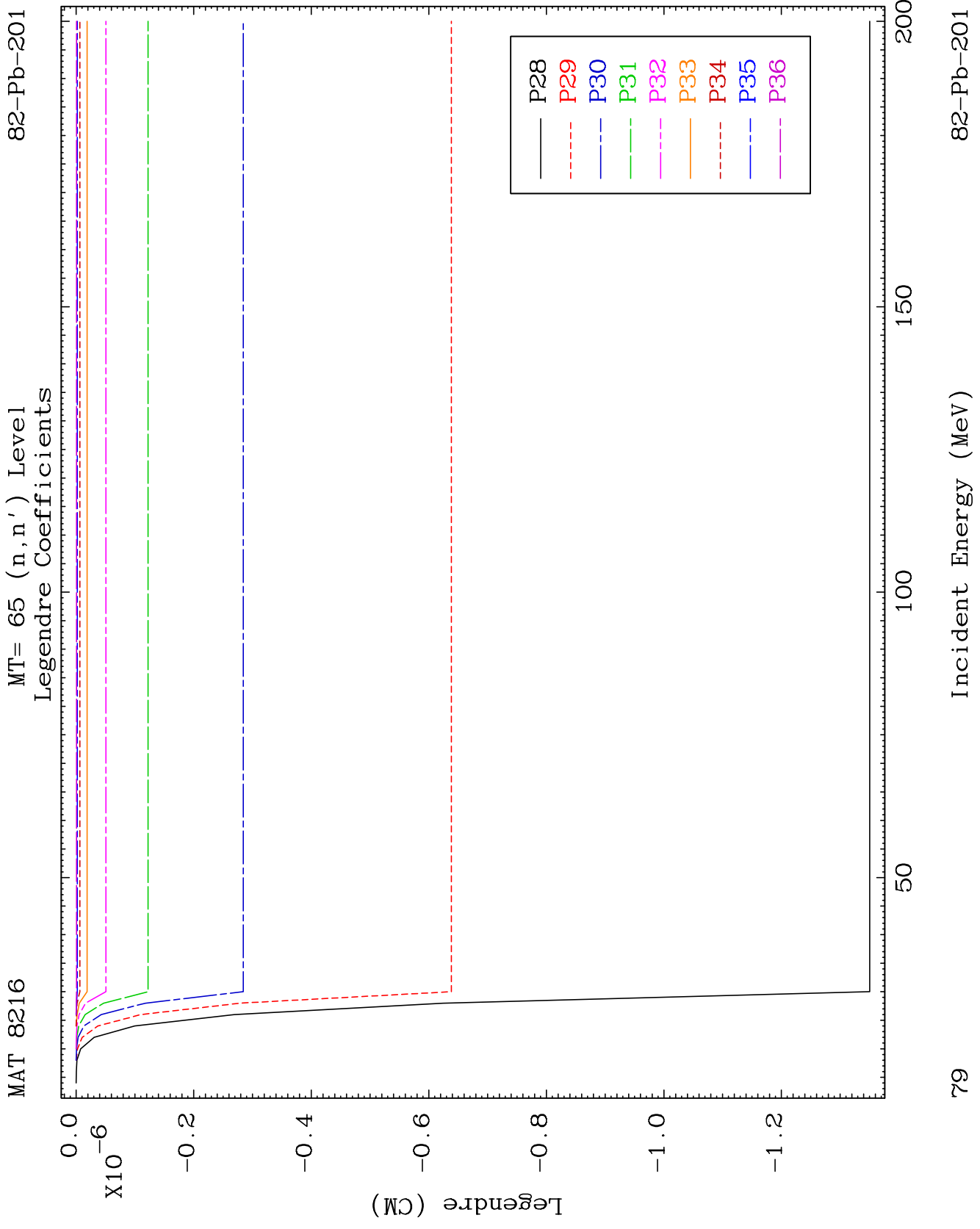
82-Pb-201



78

Incident Energy (MeV)

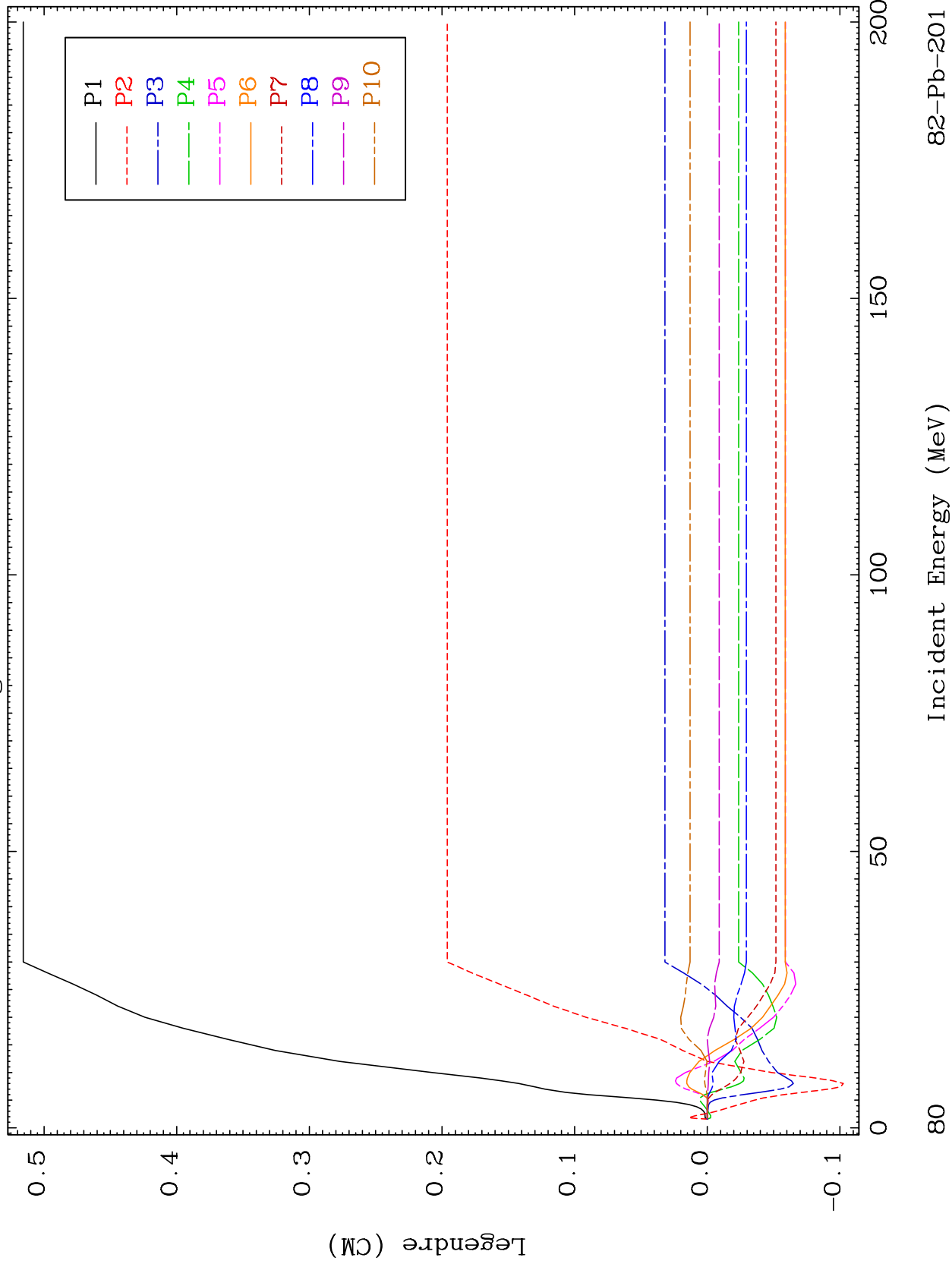
82-Pb-201



MAT 8216

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

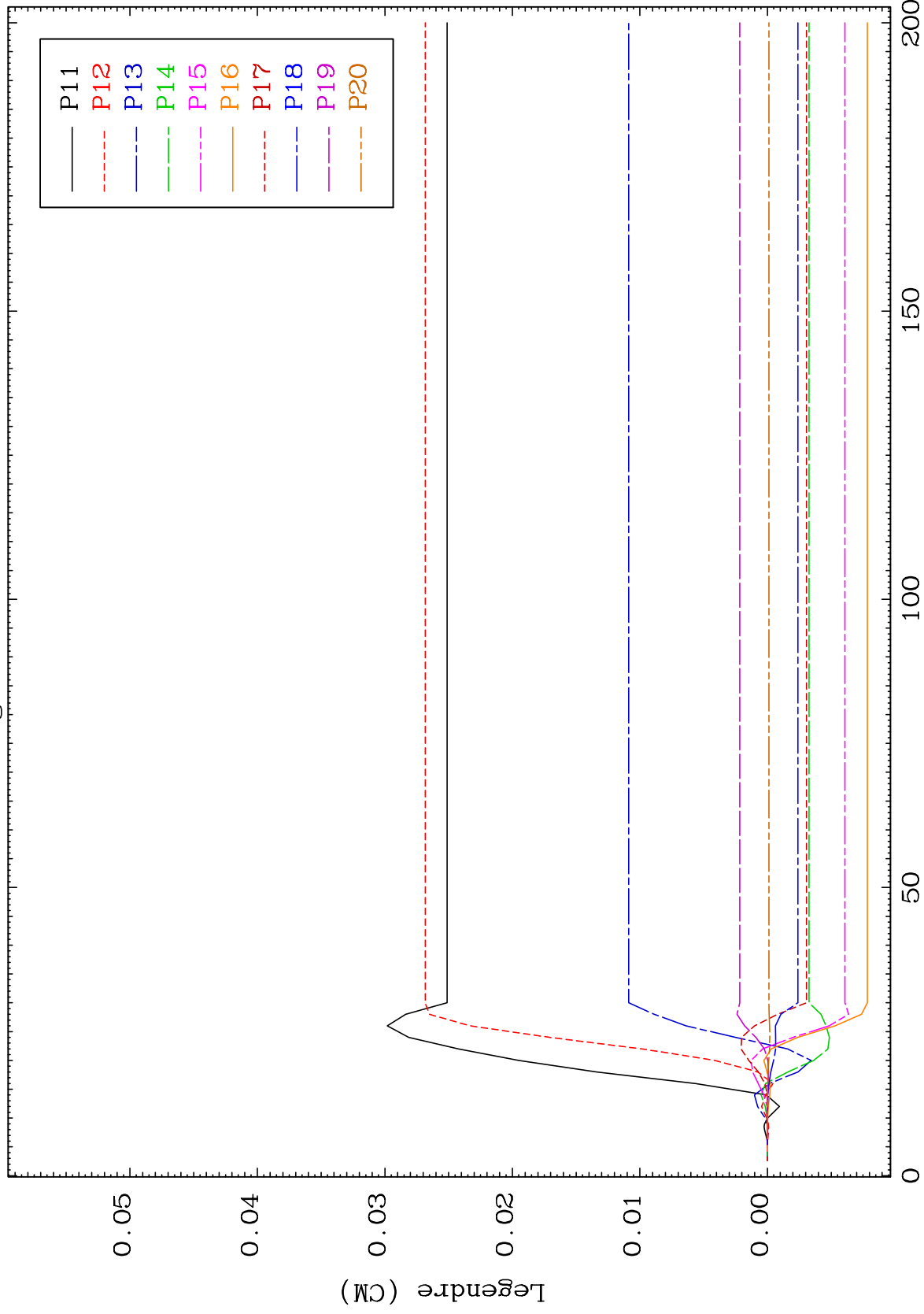
82-Pb-201



MAT 8216

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

82-Pb-201



81

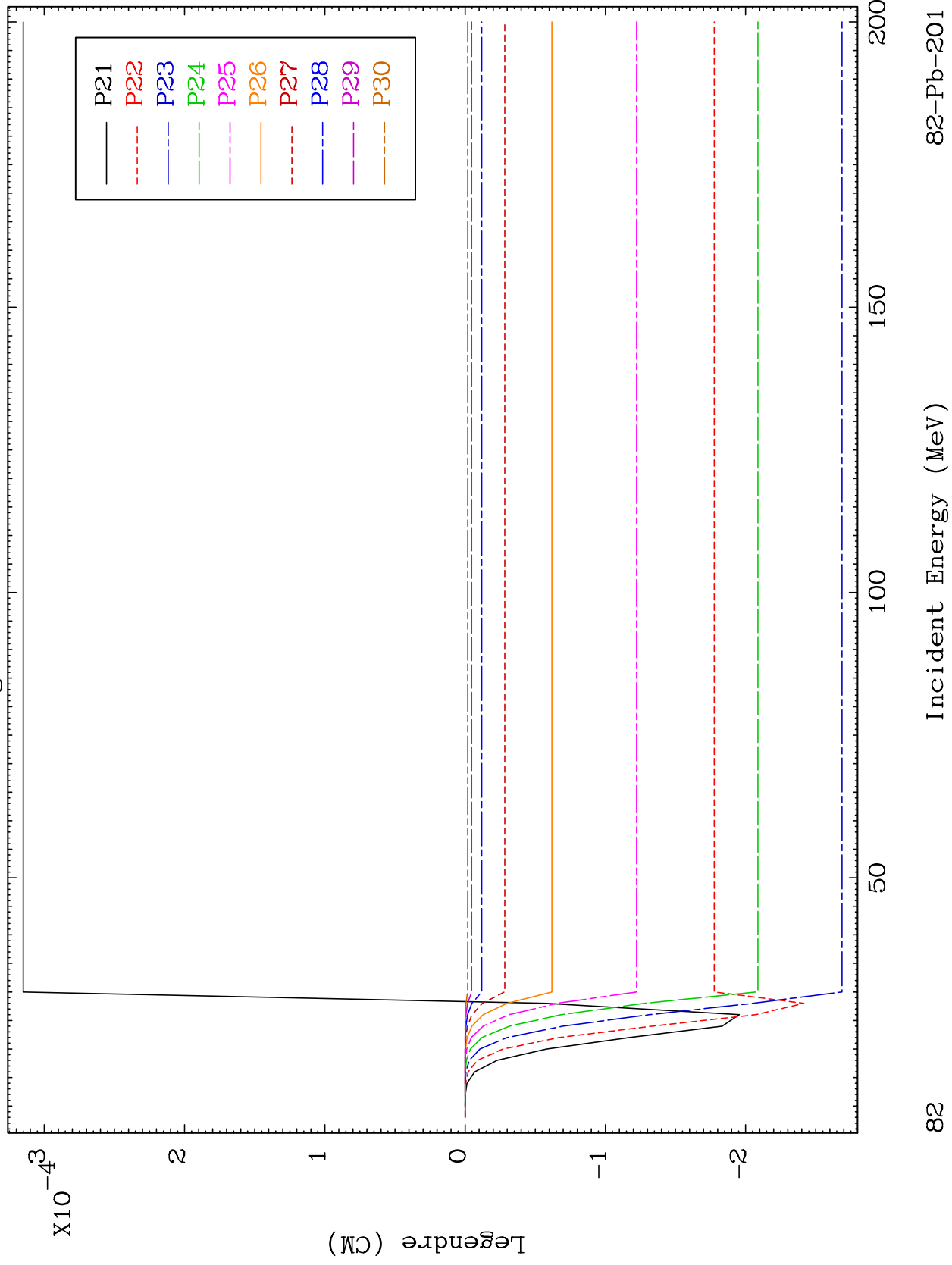
Incident Energy (MeV)

82-Pb-201

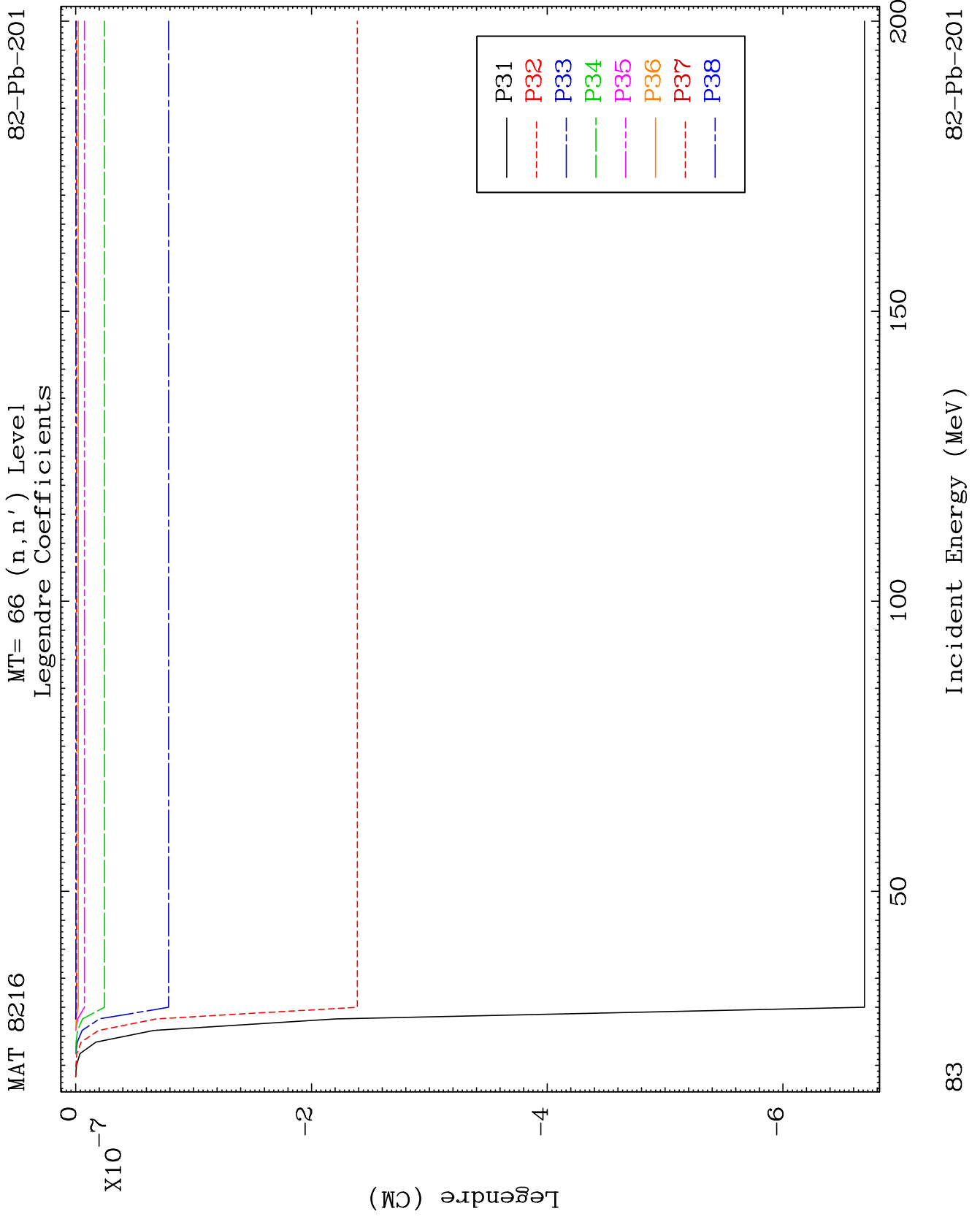
MAT 8216

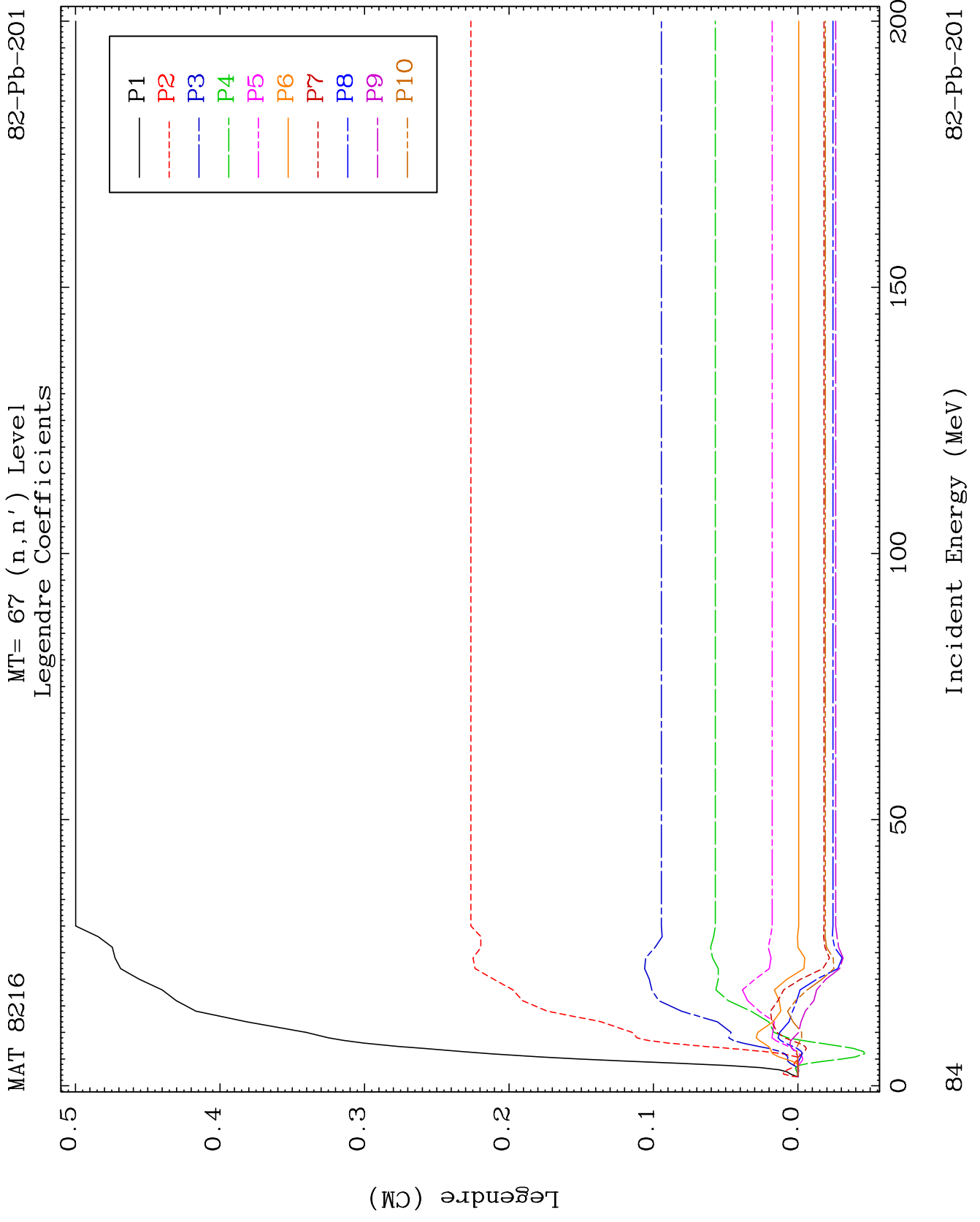
MT= 66 (n,n') Level
Legendre Coefficients

82-Pb-201



82

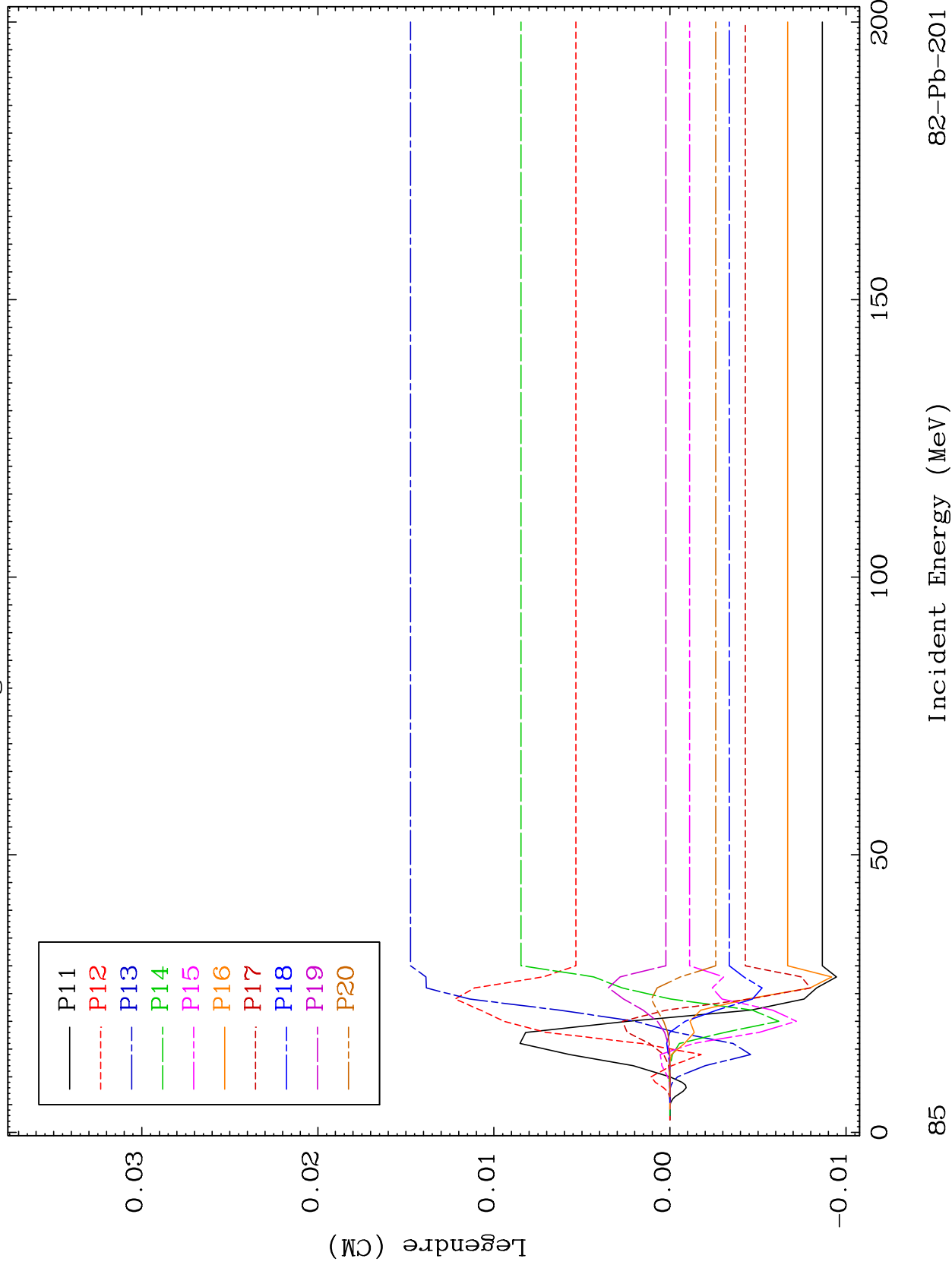


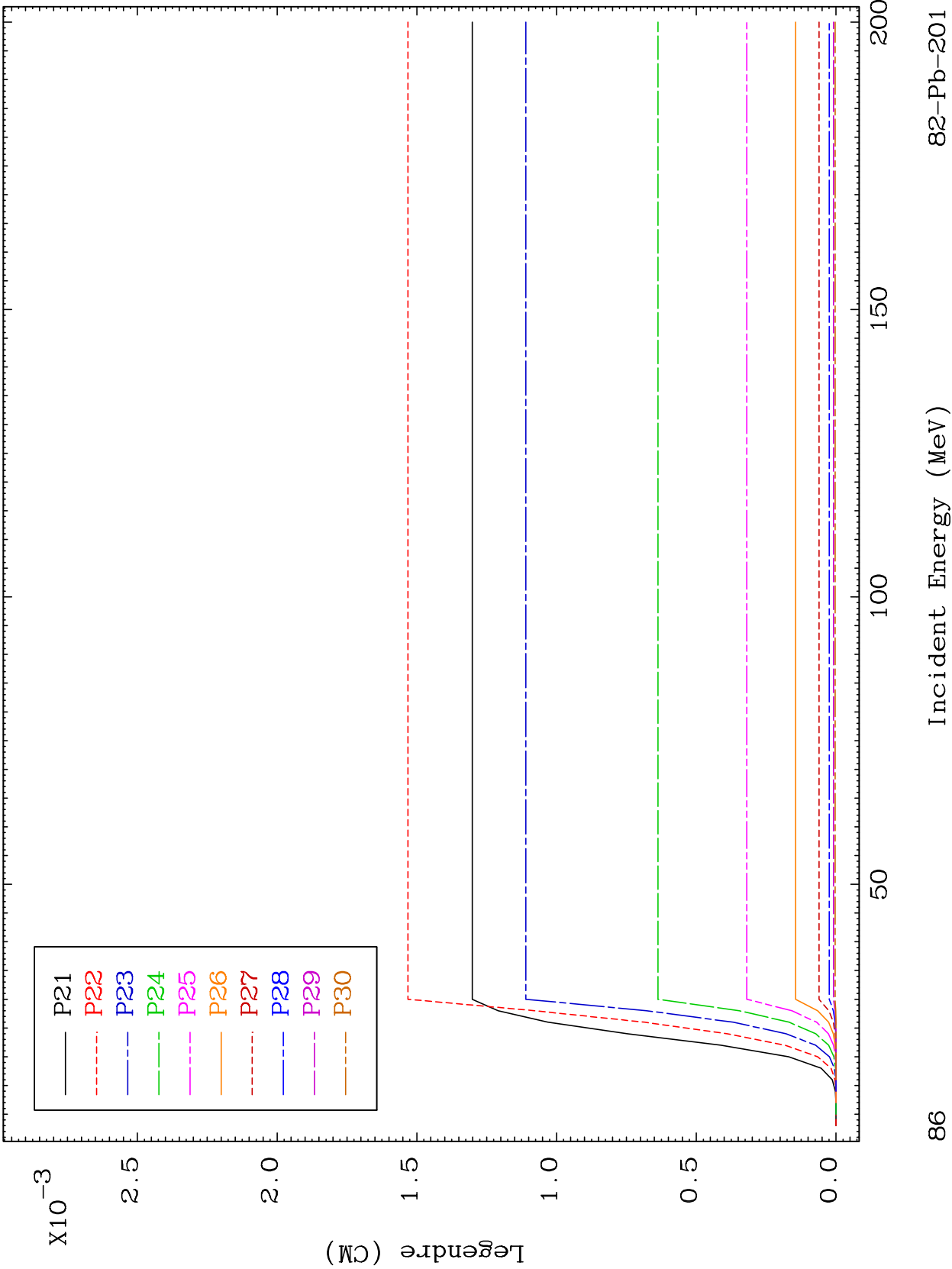


MAT 8216

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

82-Pb-201

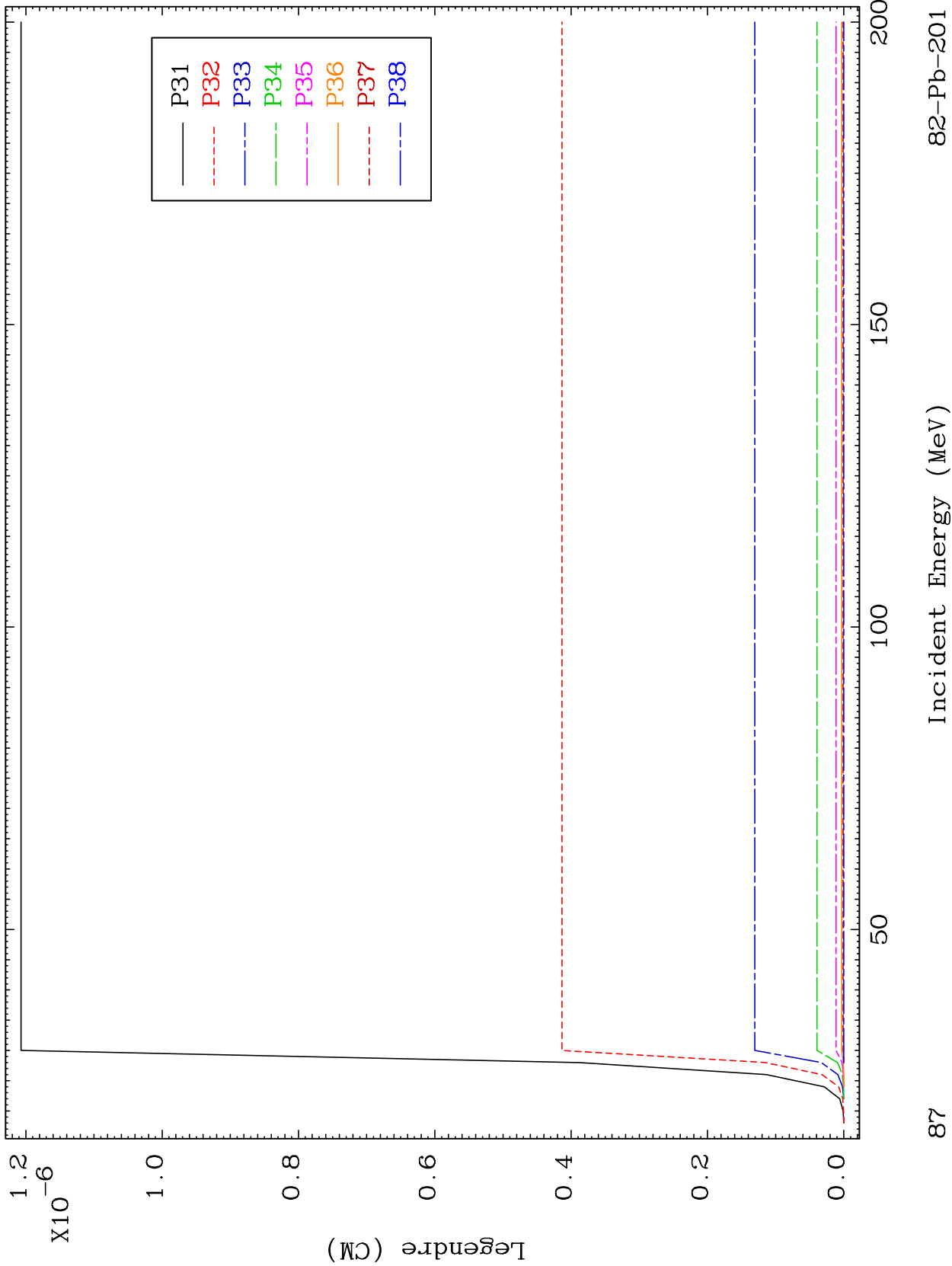


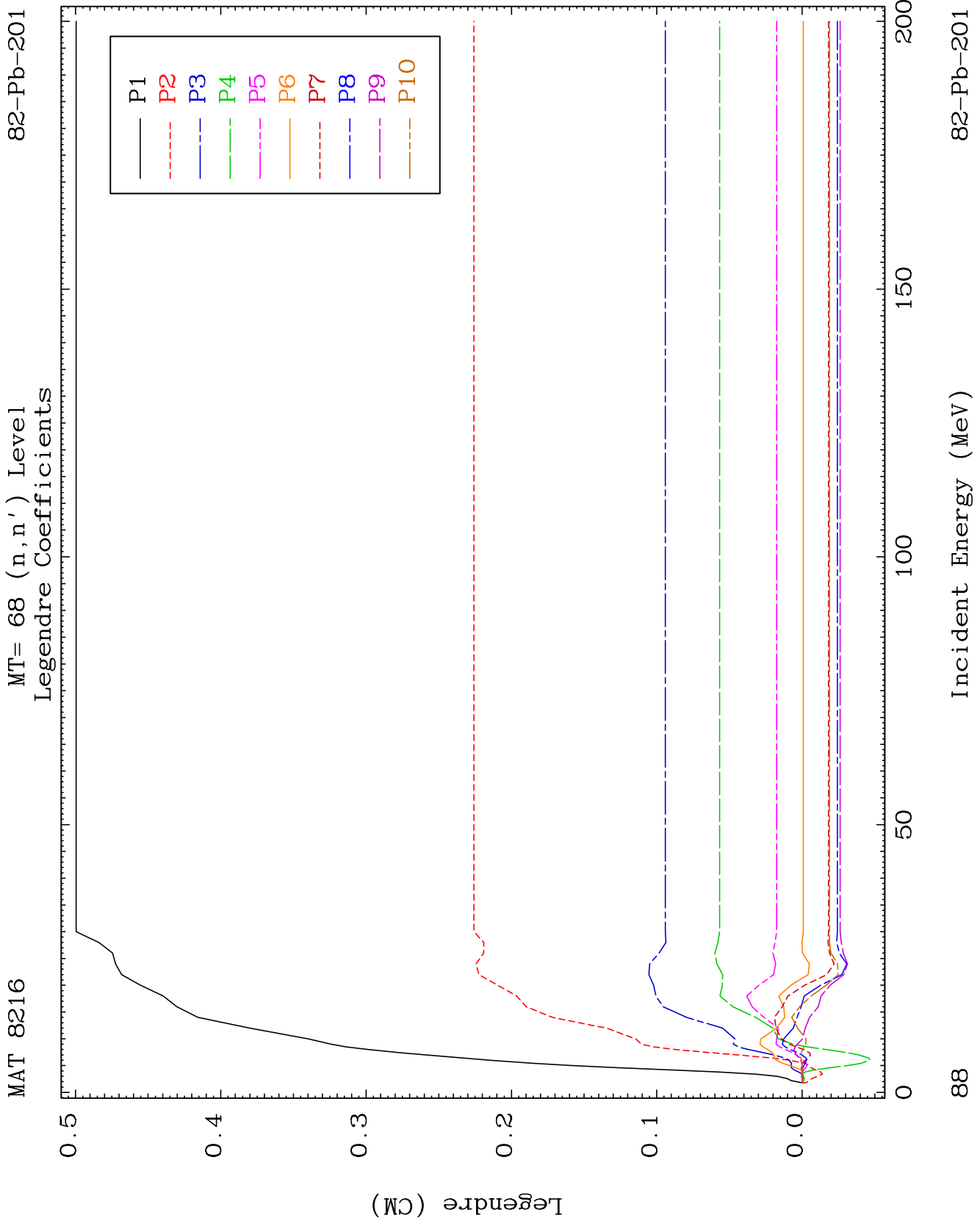


MAT 8216

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

82-Pb-201

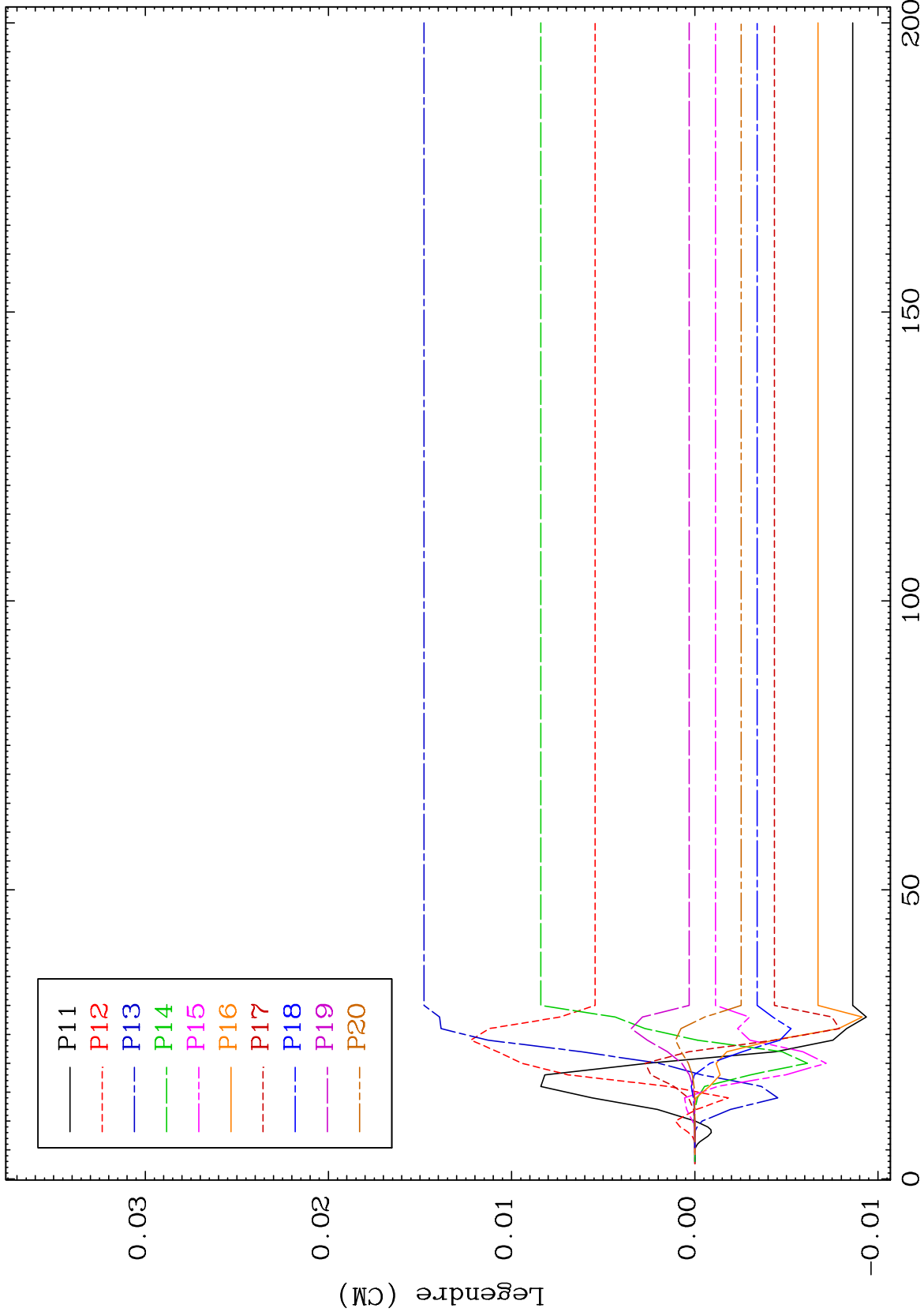




MAT 8216

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

82-Pb-201



89

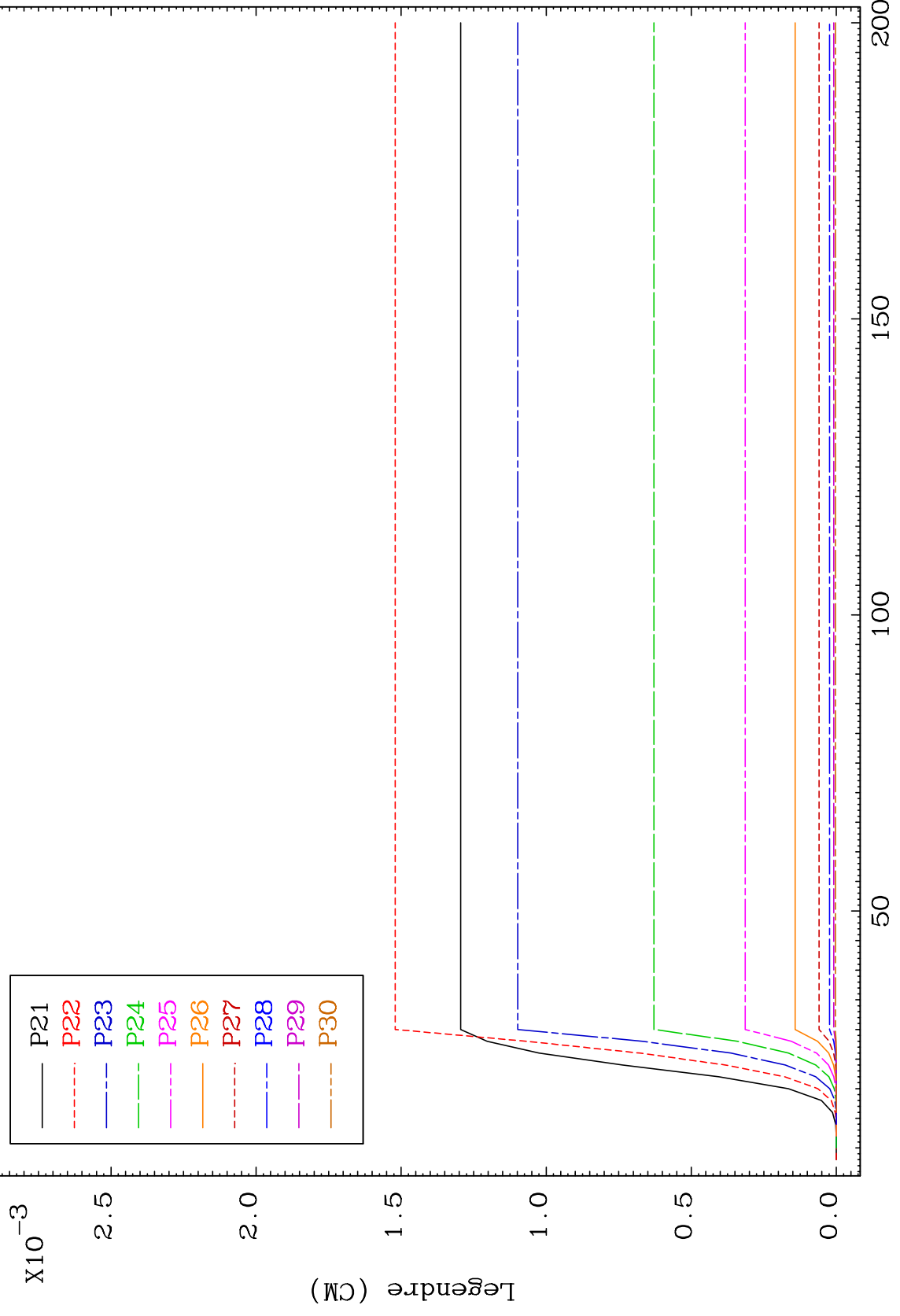
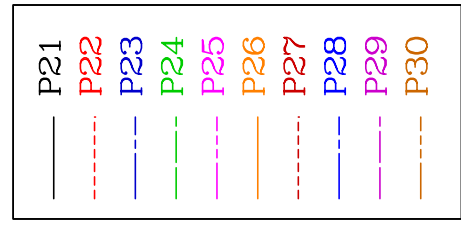
Incident Energy (MeV)

82-Pb-201

MAT 8216

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

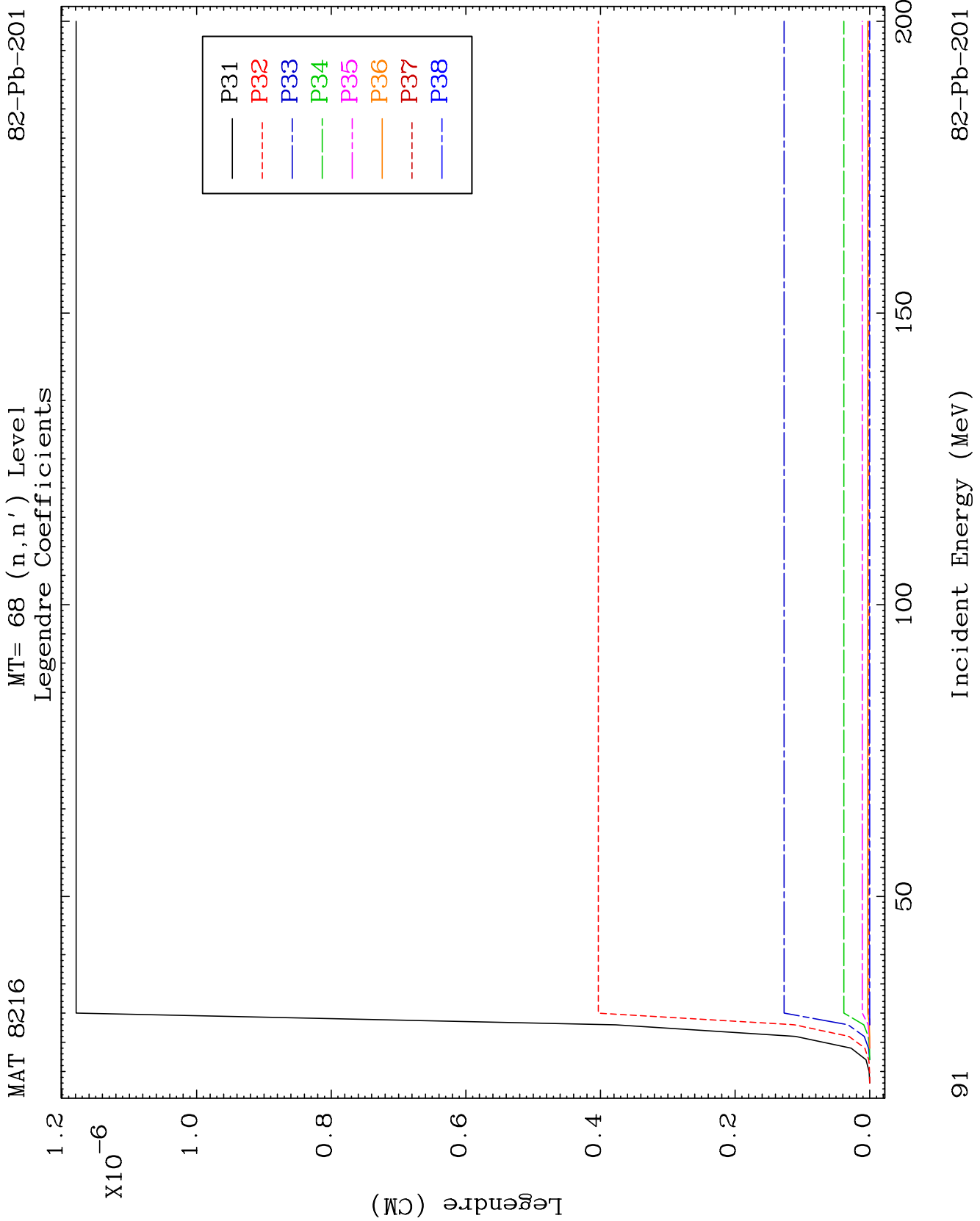
82-Pb-201



90

Incident Energy (MeV)

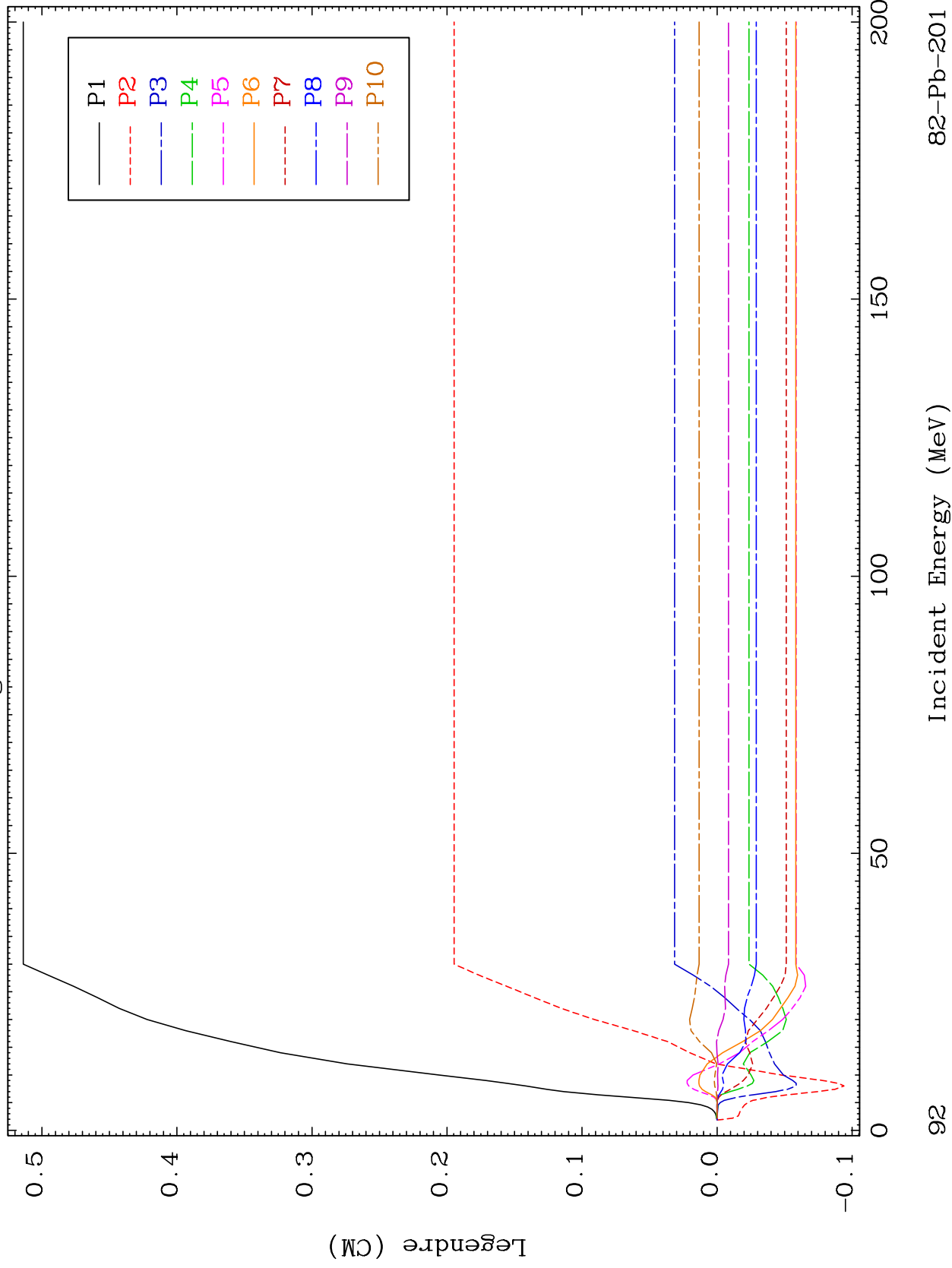
82-Pb-201



MAT 8216

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

82-Pb-201



82-Pb-201

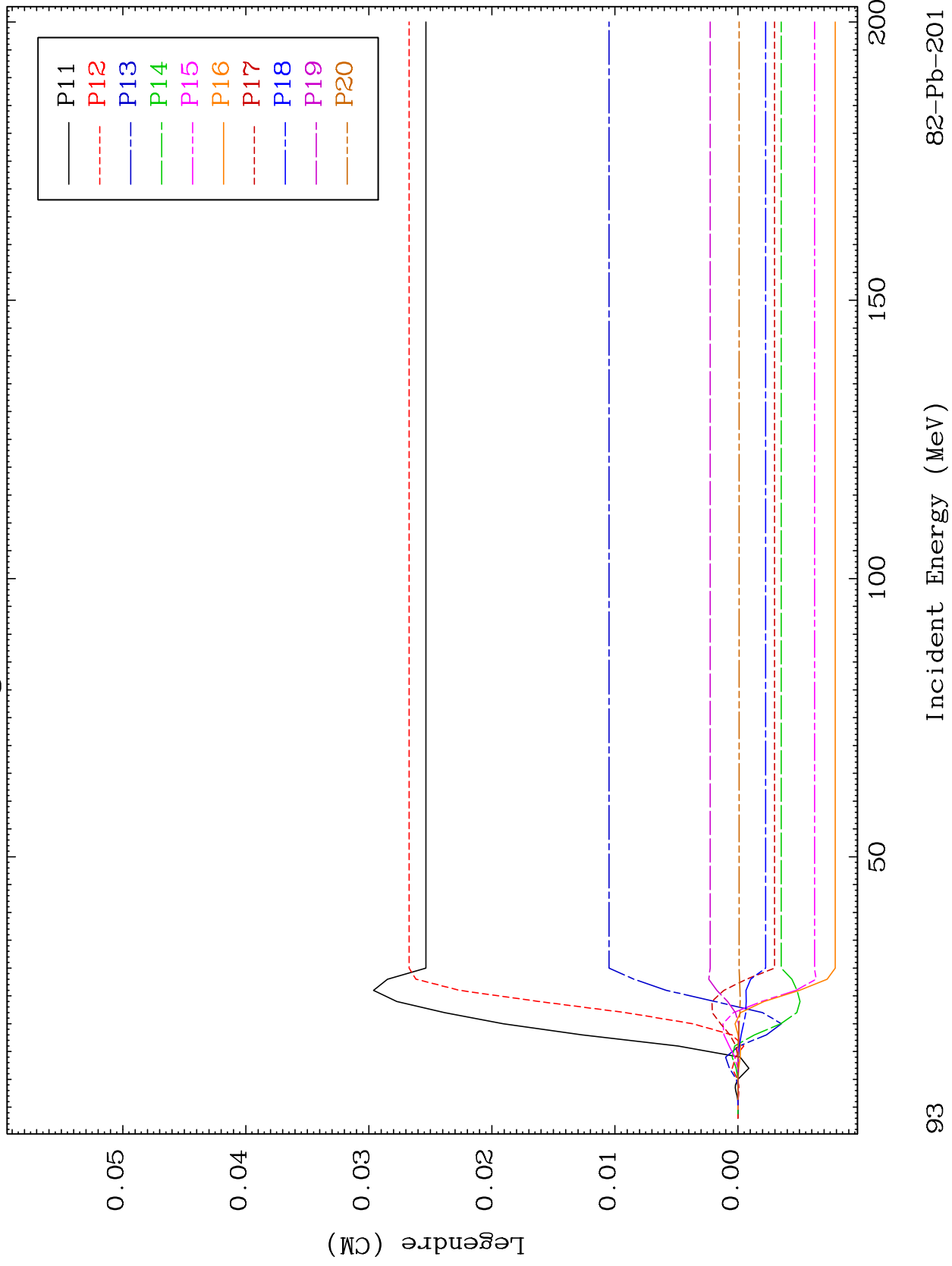
Incident Energy (MeV)

92

MAT 8216

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

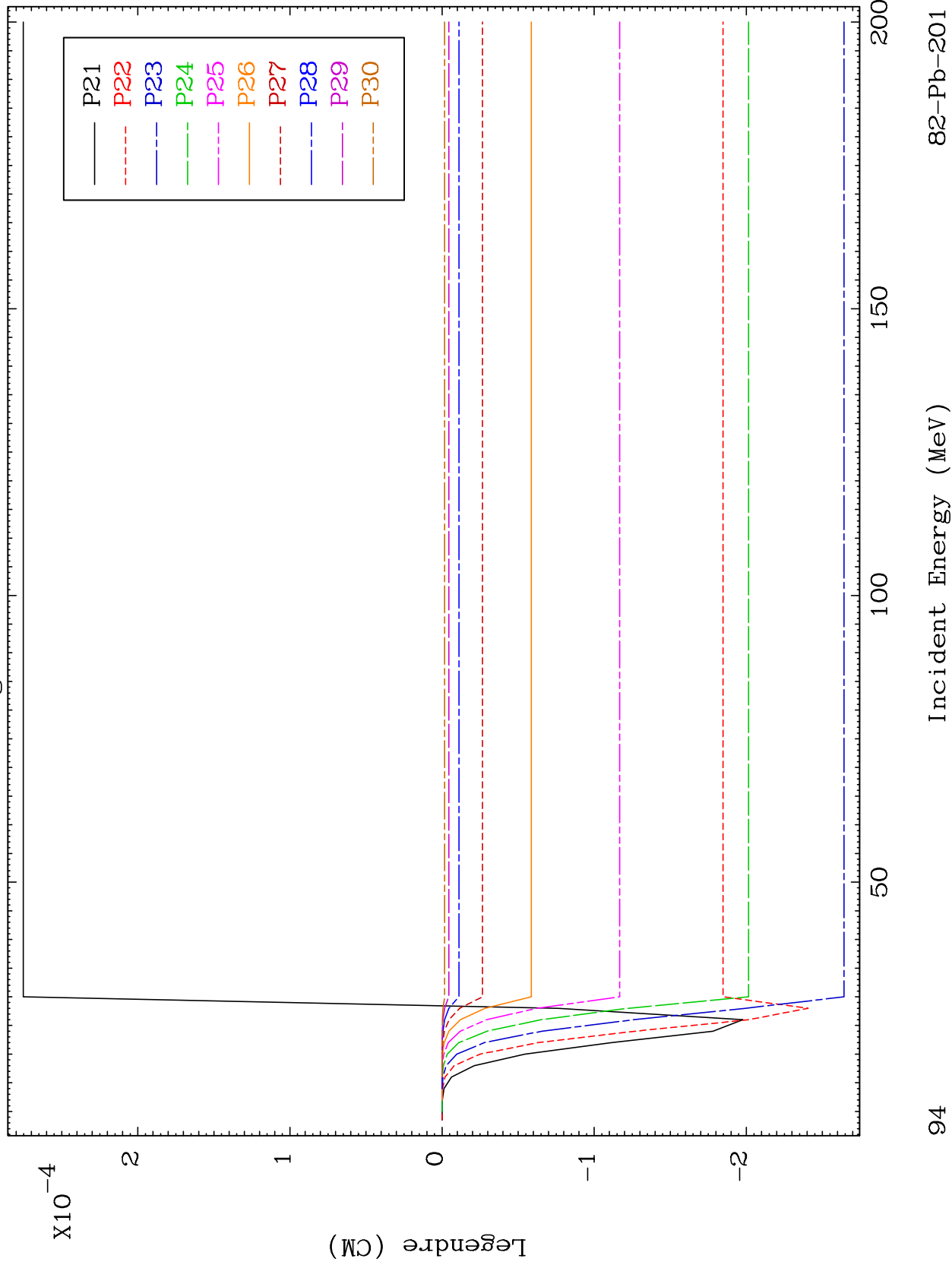
82-Pb-201



MAT 8216

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

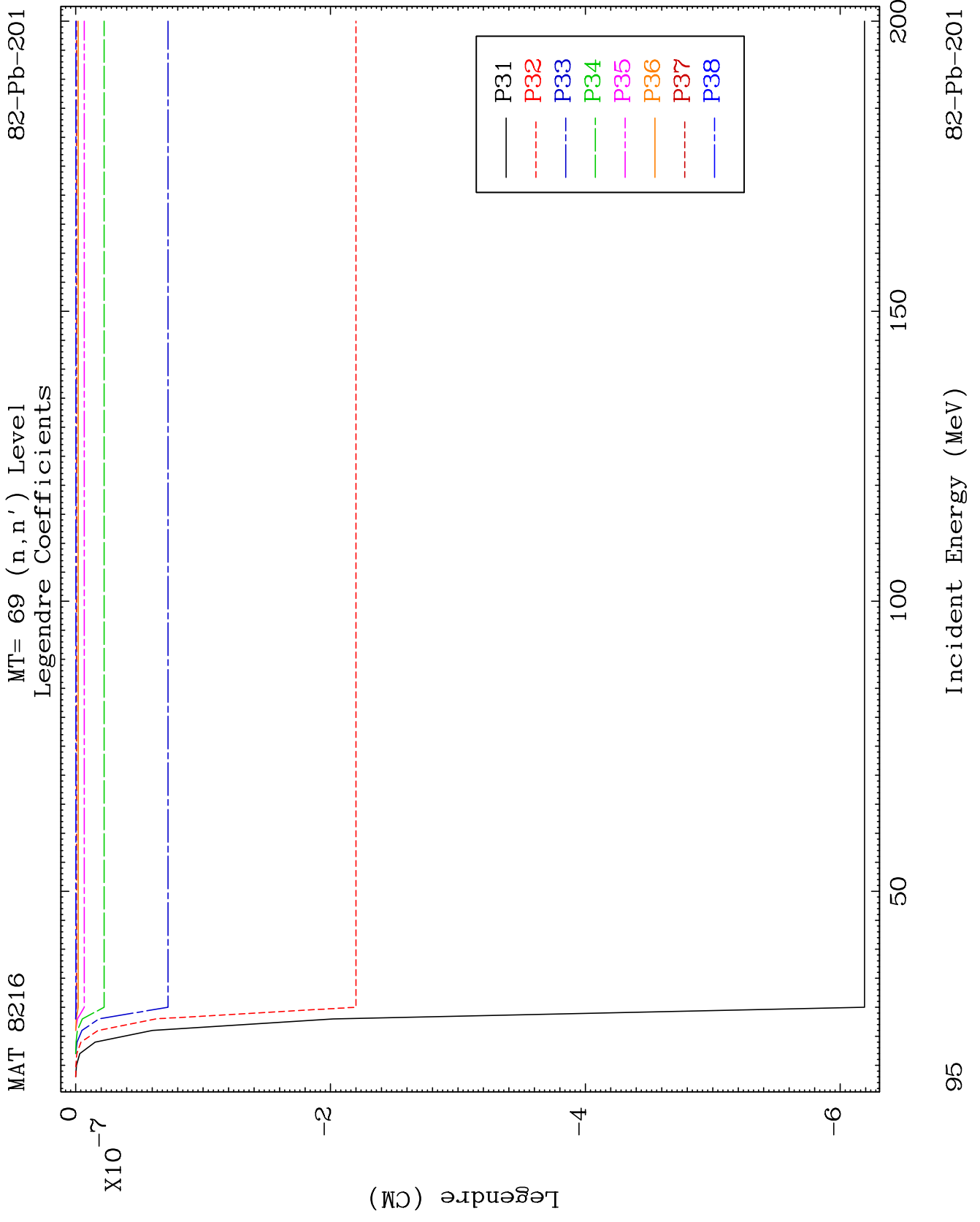
82-Pb-201



94

Incident Energy (MeV)

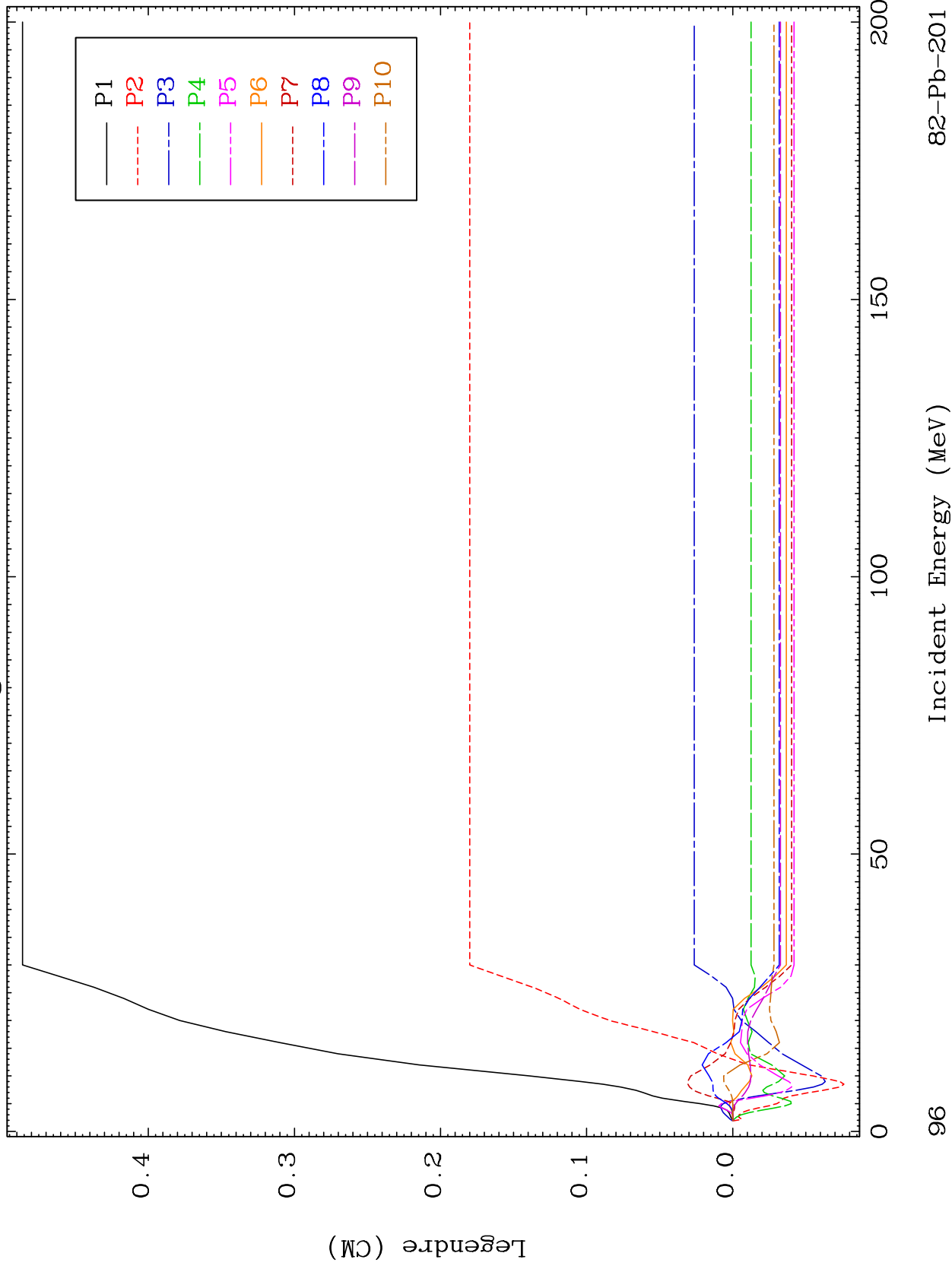
82-Pb-201

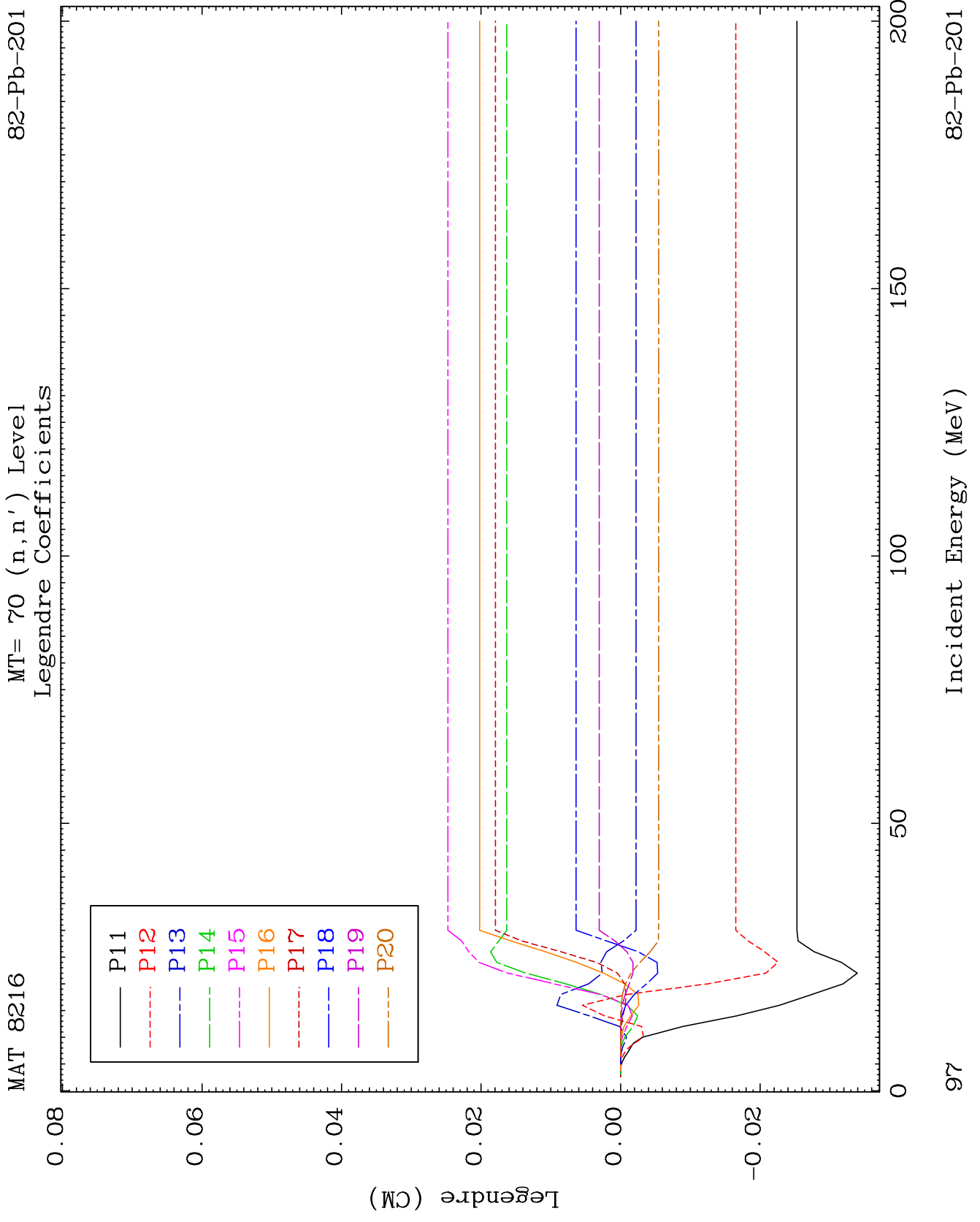


MAT 8216

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

82-Pb-201

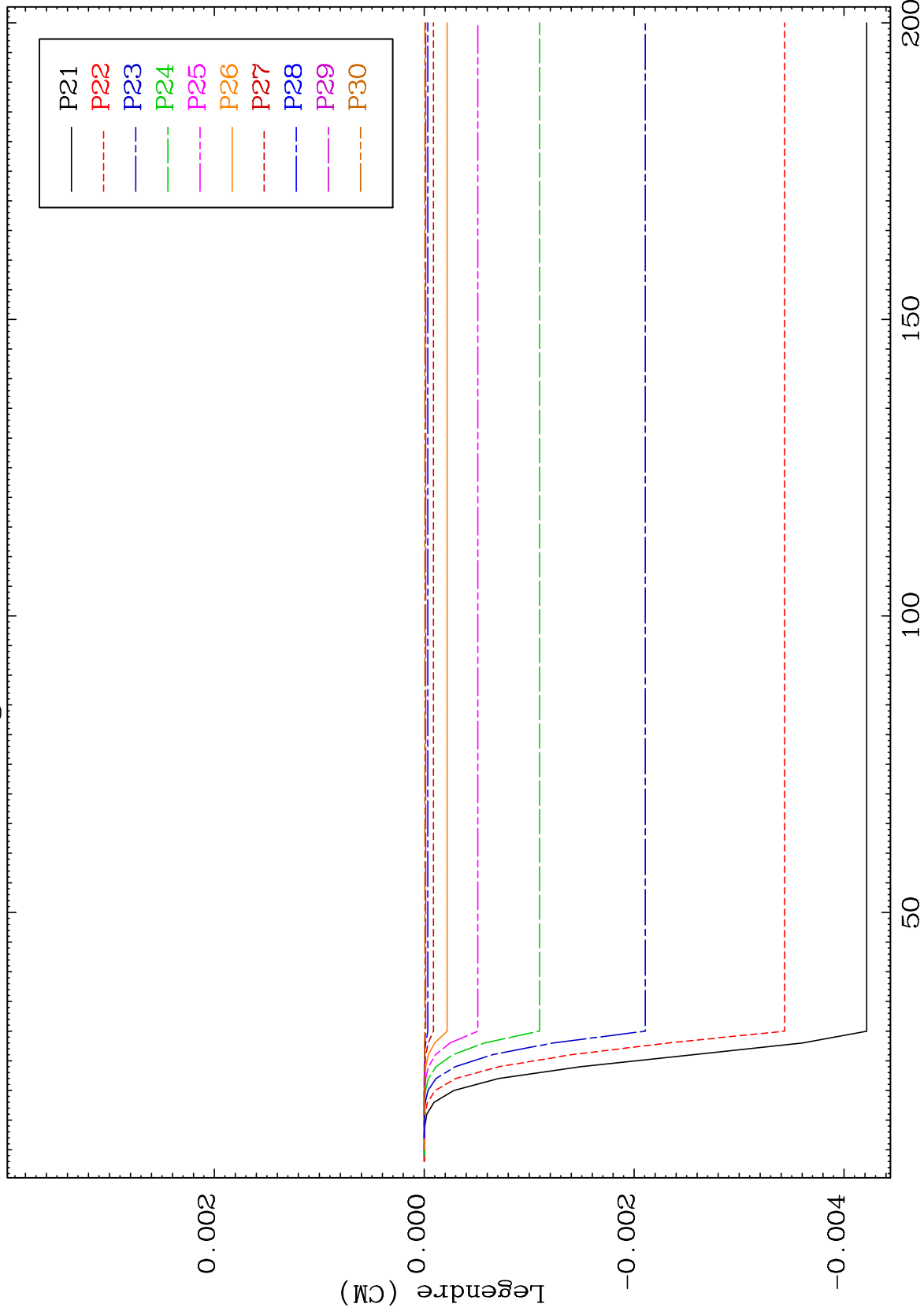




MAT 8216

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

82-Pb-201



98

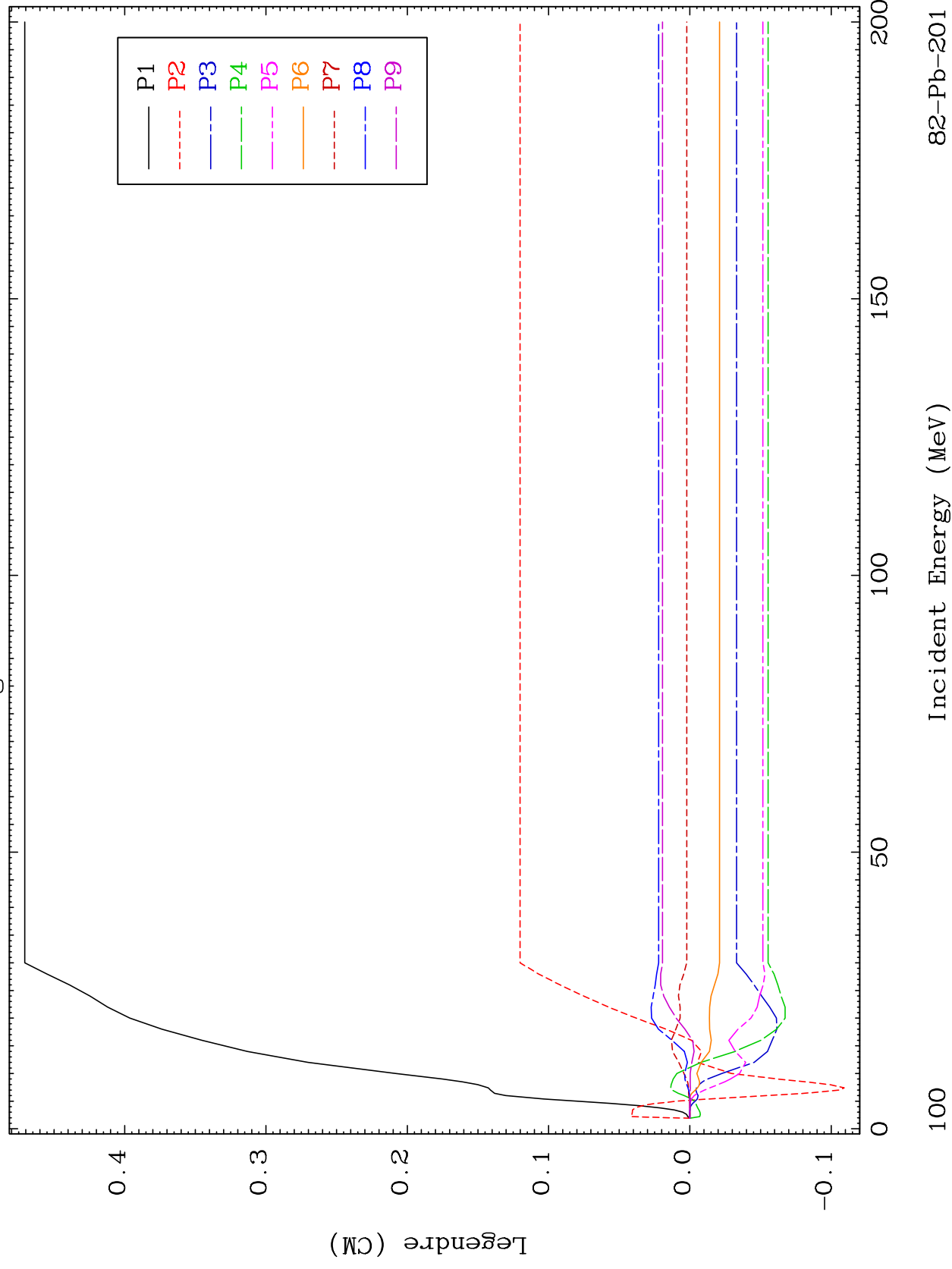
Incident Energy (MeV)

82-Pb-201

MAT 8216

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

82-Pb-201



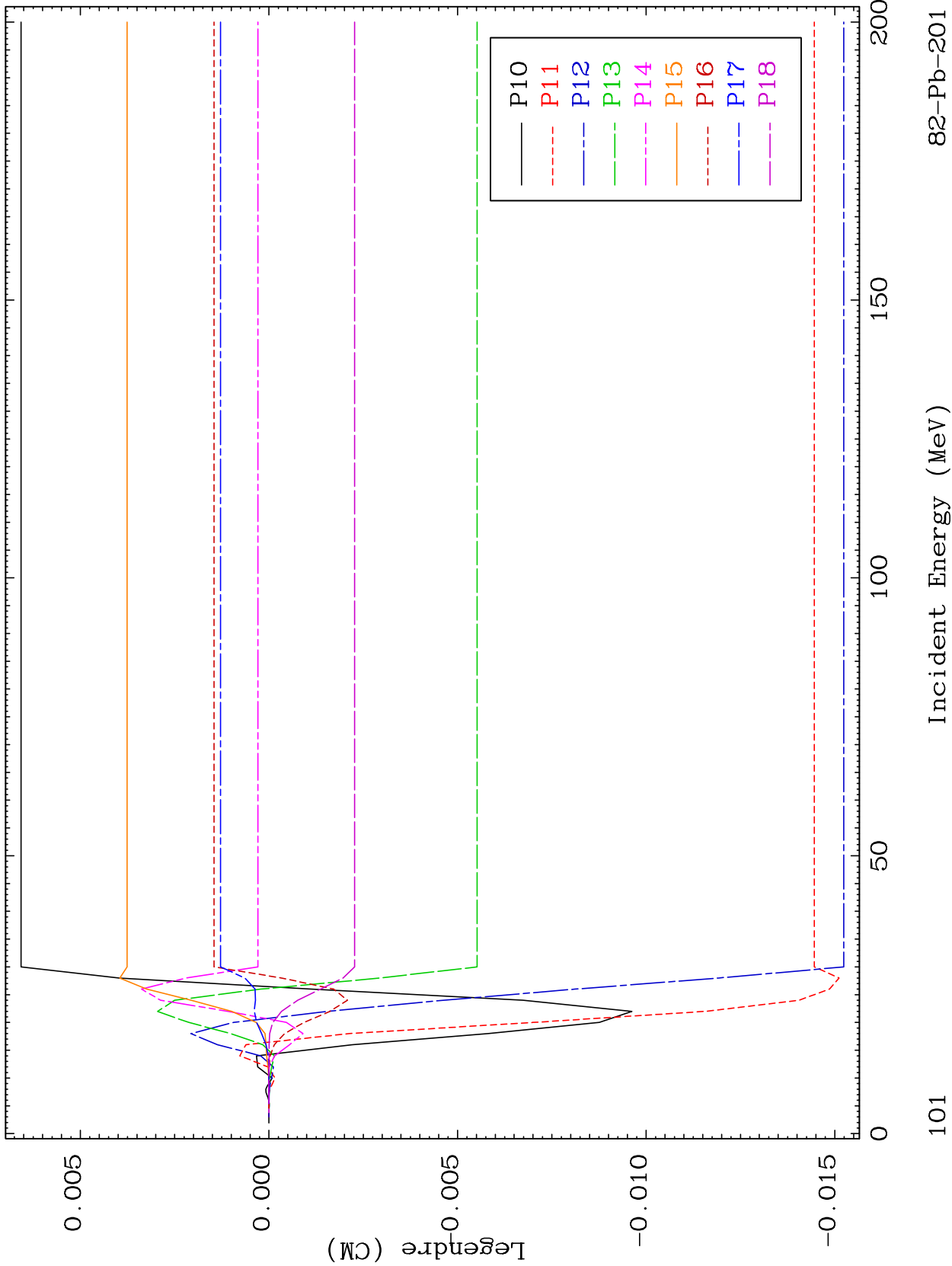
82-Pb-201

Incident Energy (MeV)

MAT 8216

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

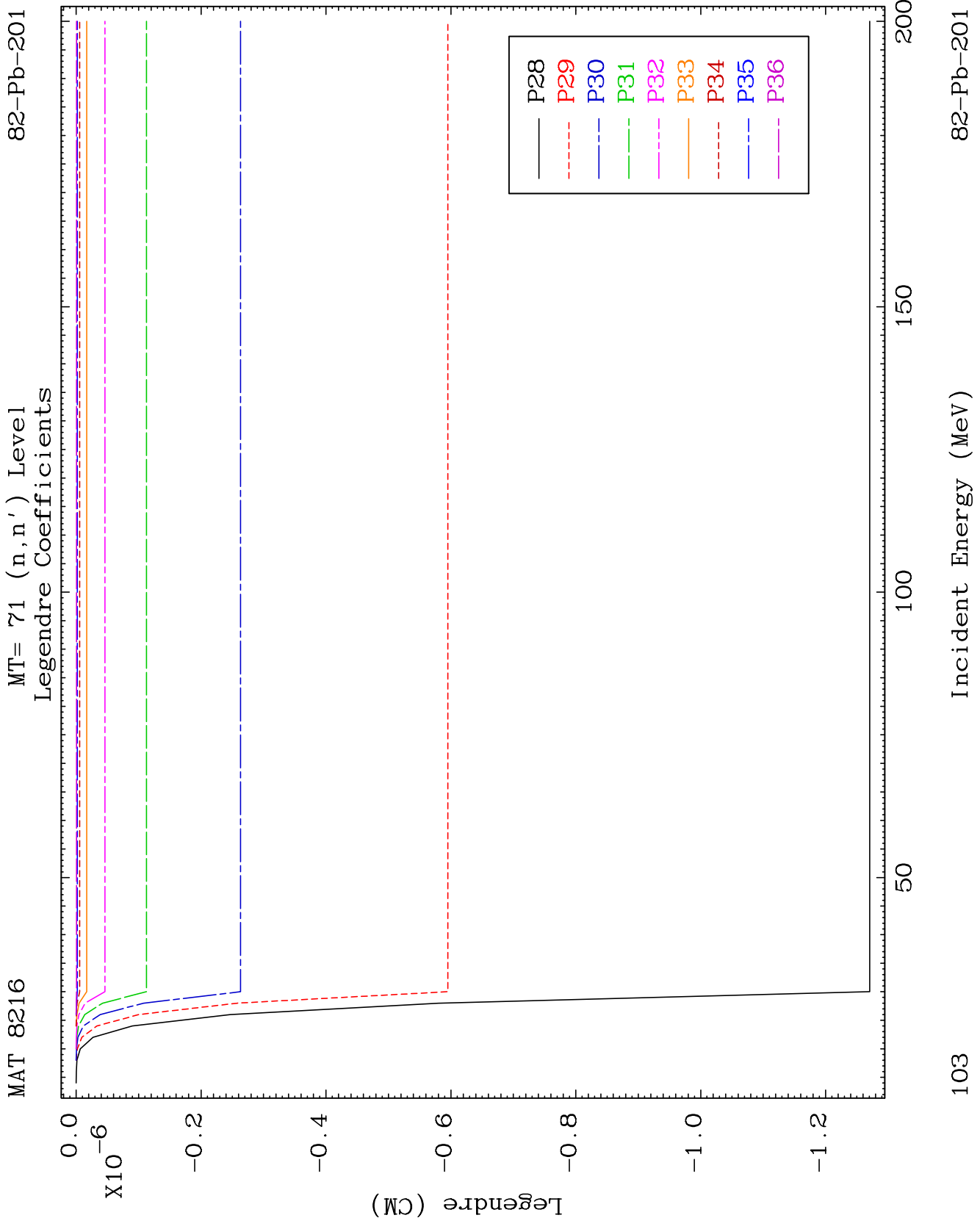
82-Pb-201



82-Pb-201

Incident Energy (MeV)

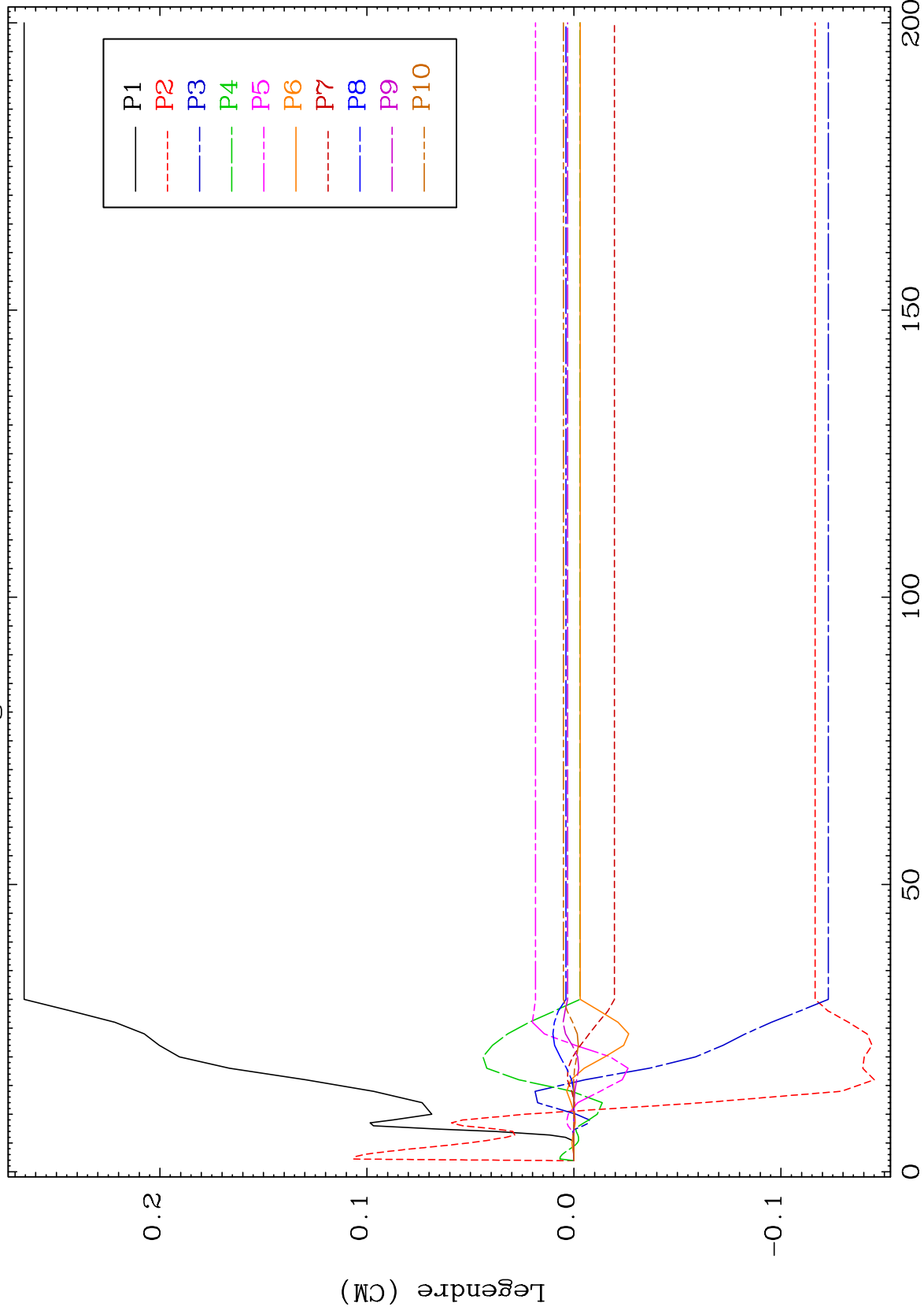
101



MAT 8216

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

82-Pb-201



104

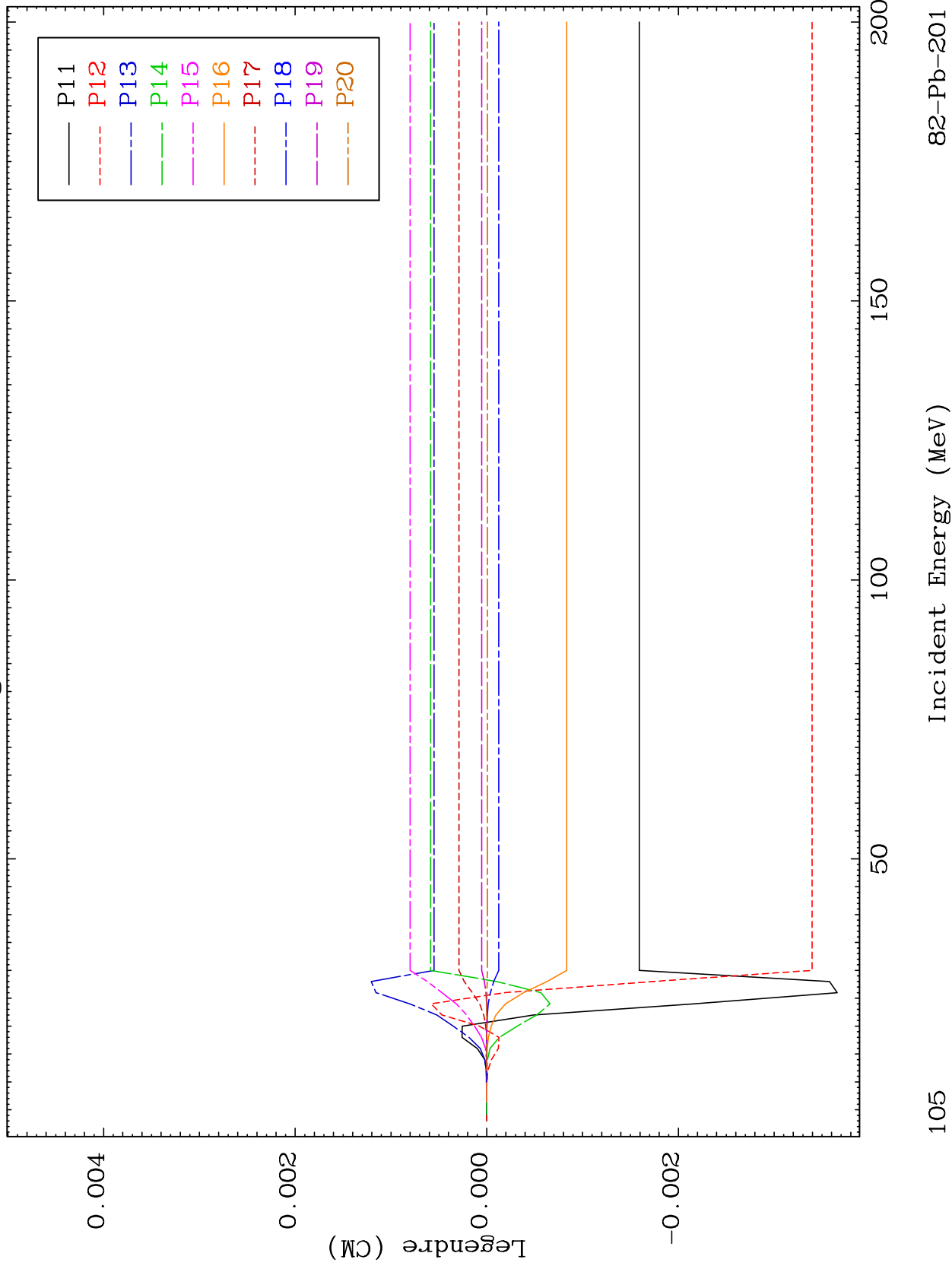
Incident Energy (MeV)

82-Pb-201

MAT 8216

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

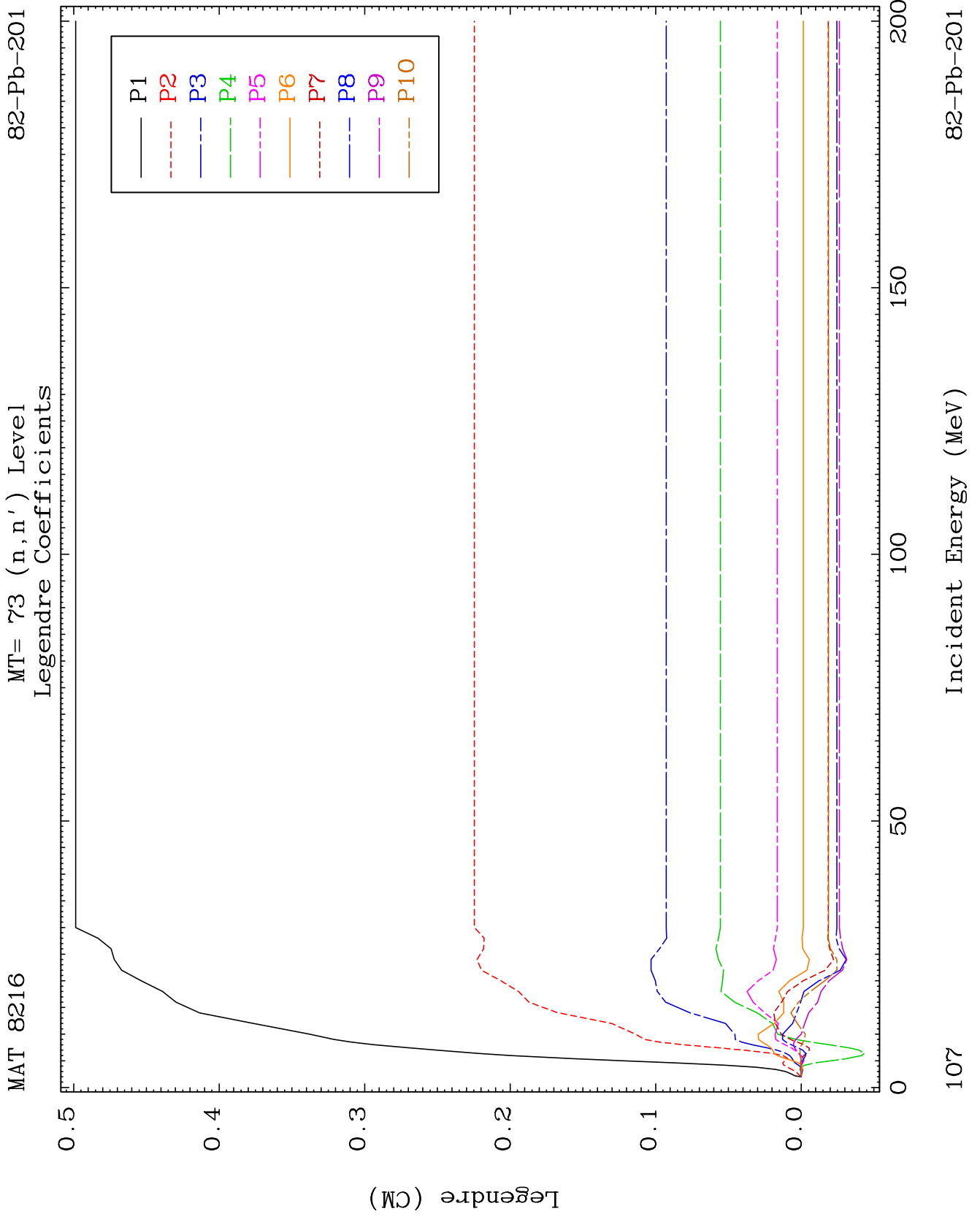
82-Pb-201



105

Incident Energy (MeV)

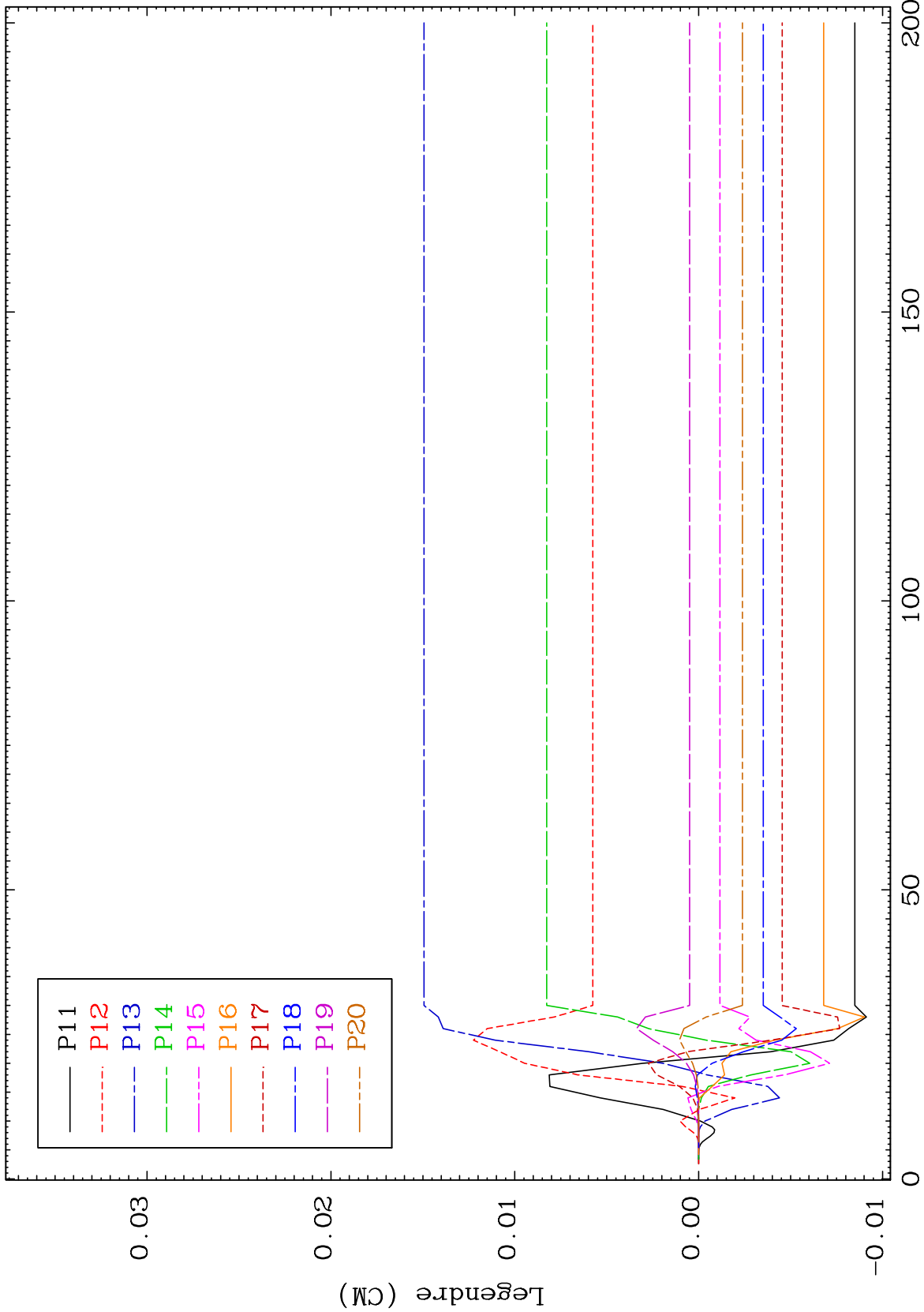
82-Pb-201



MAT 8216

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

82-Pb-201



108

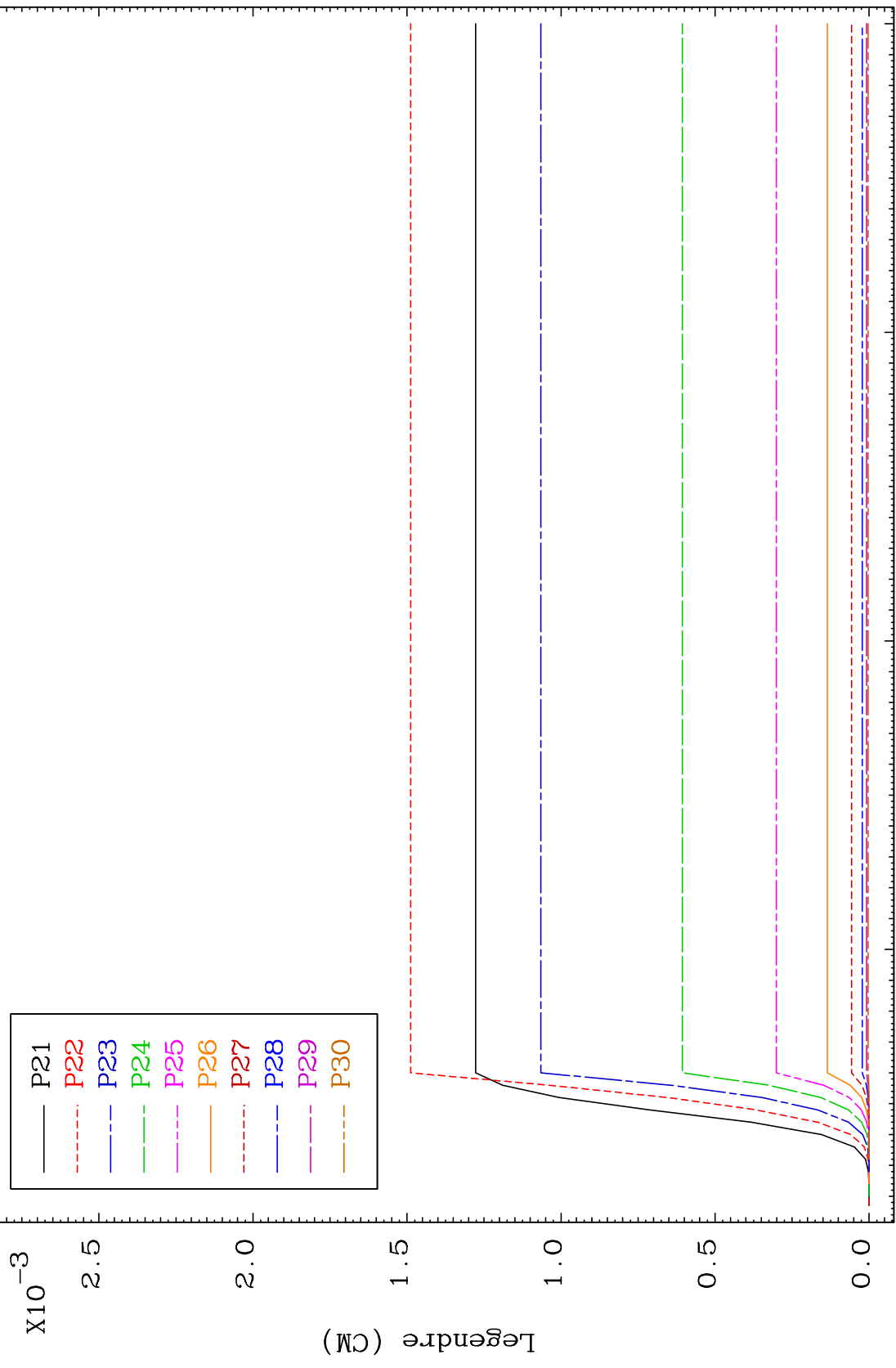
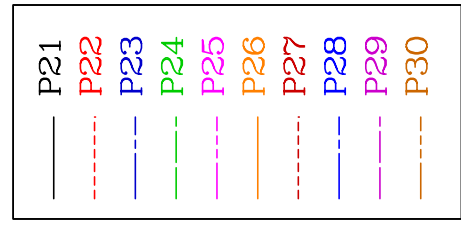
Incident Energy (MeV)

82-Pb-201

MAT 8216

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

82-Pb-201



109

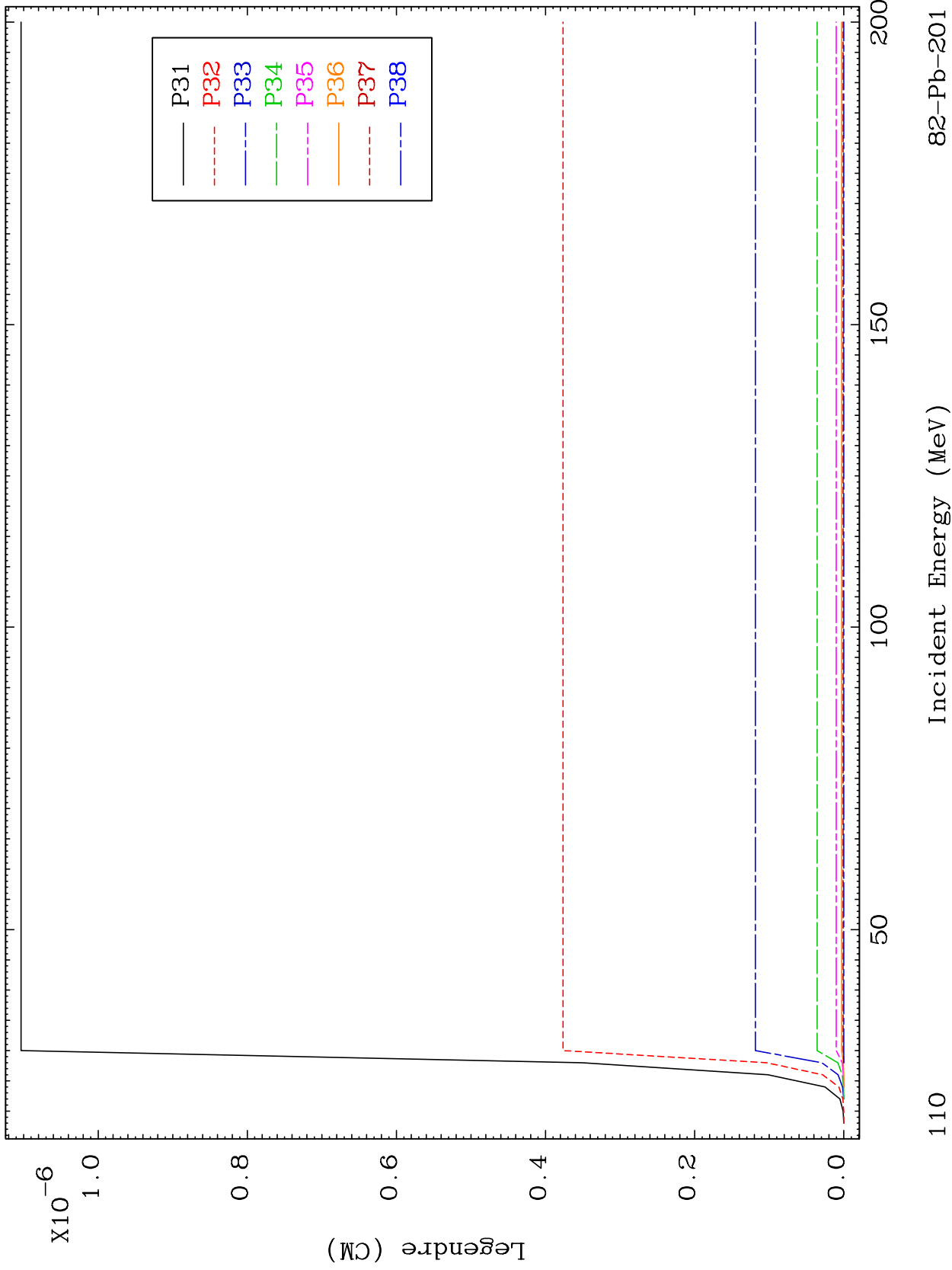
Incident Energy (MeV)

82-Pb-201

MAT 8216

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

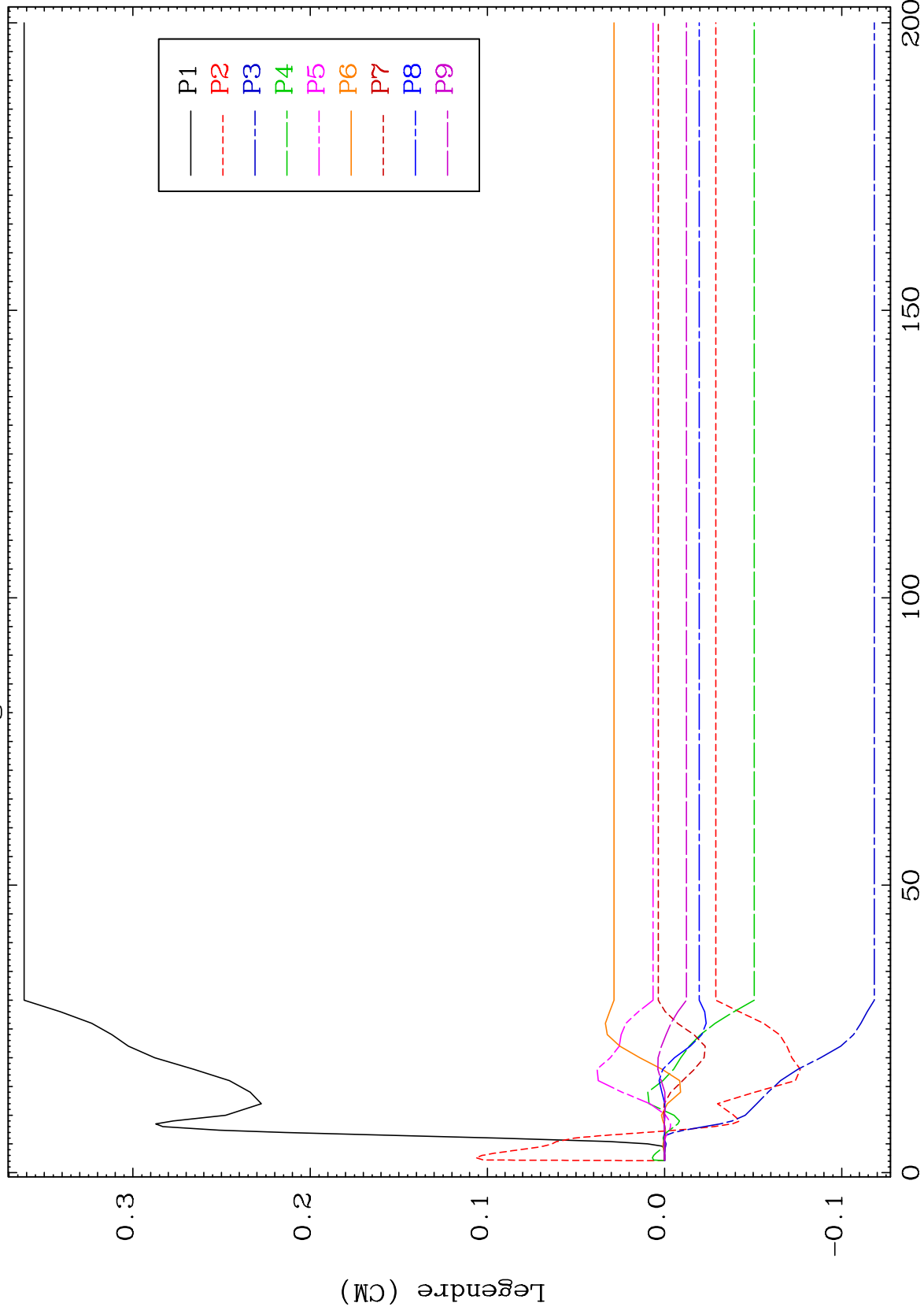
82-Pb-201



MAT 8216

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

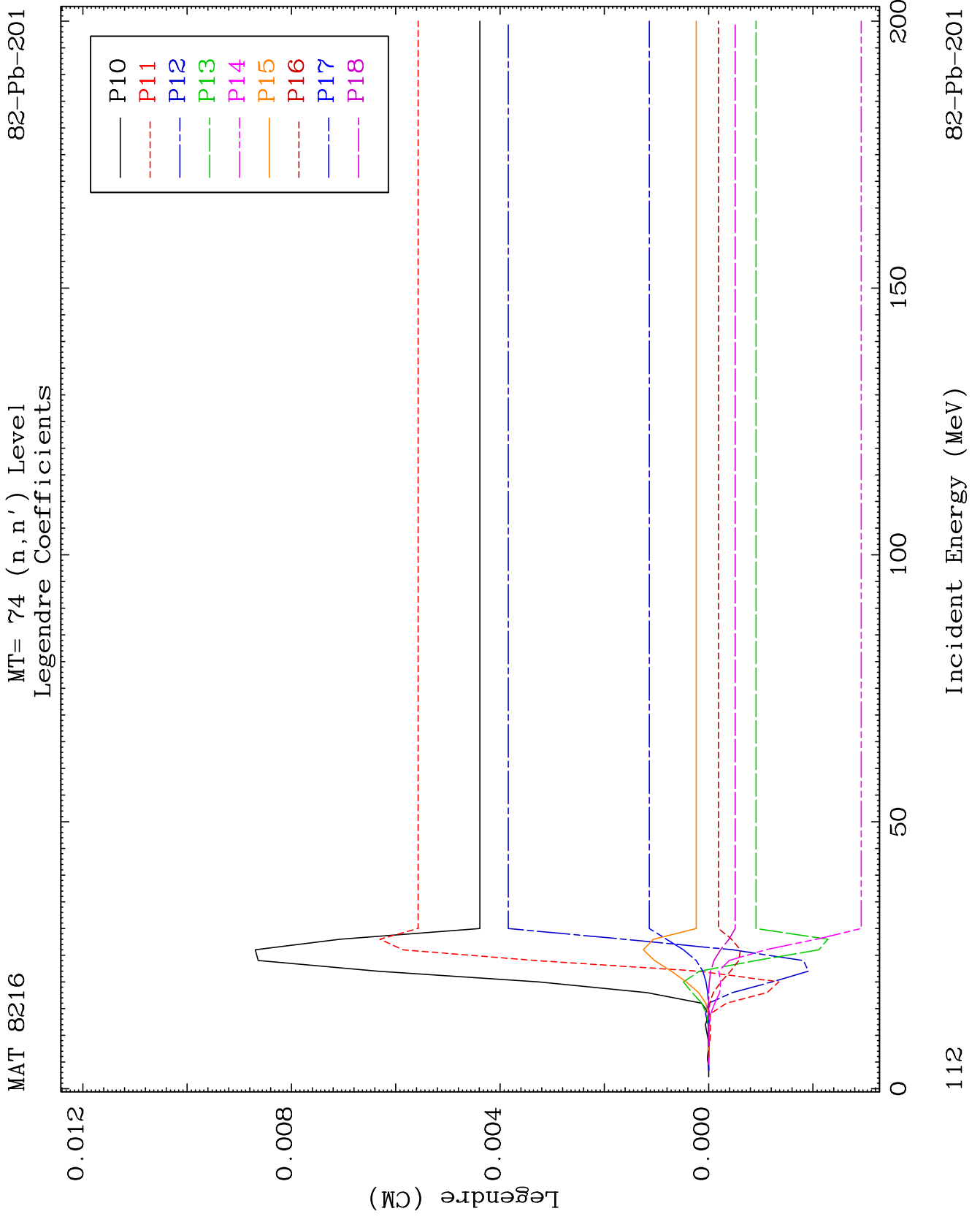
82-Pb-201



111

Incident Energy (MeV)

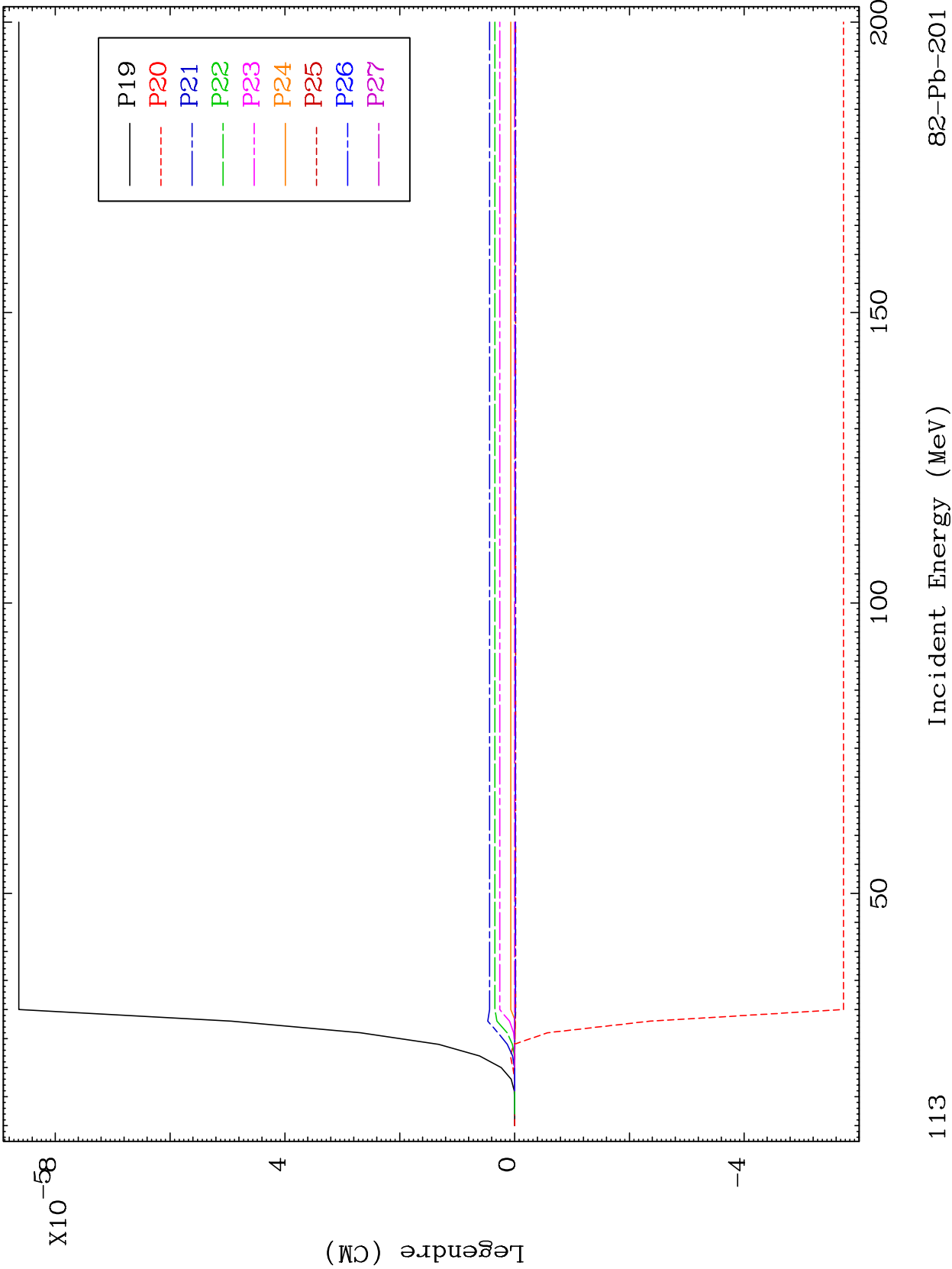
82-Pb-201



MAT 8216

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

82-Pb-201



113

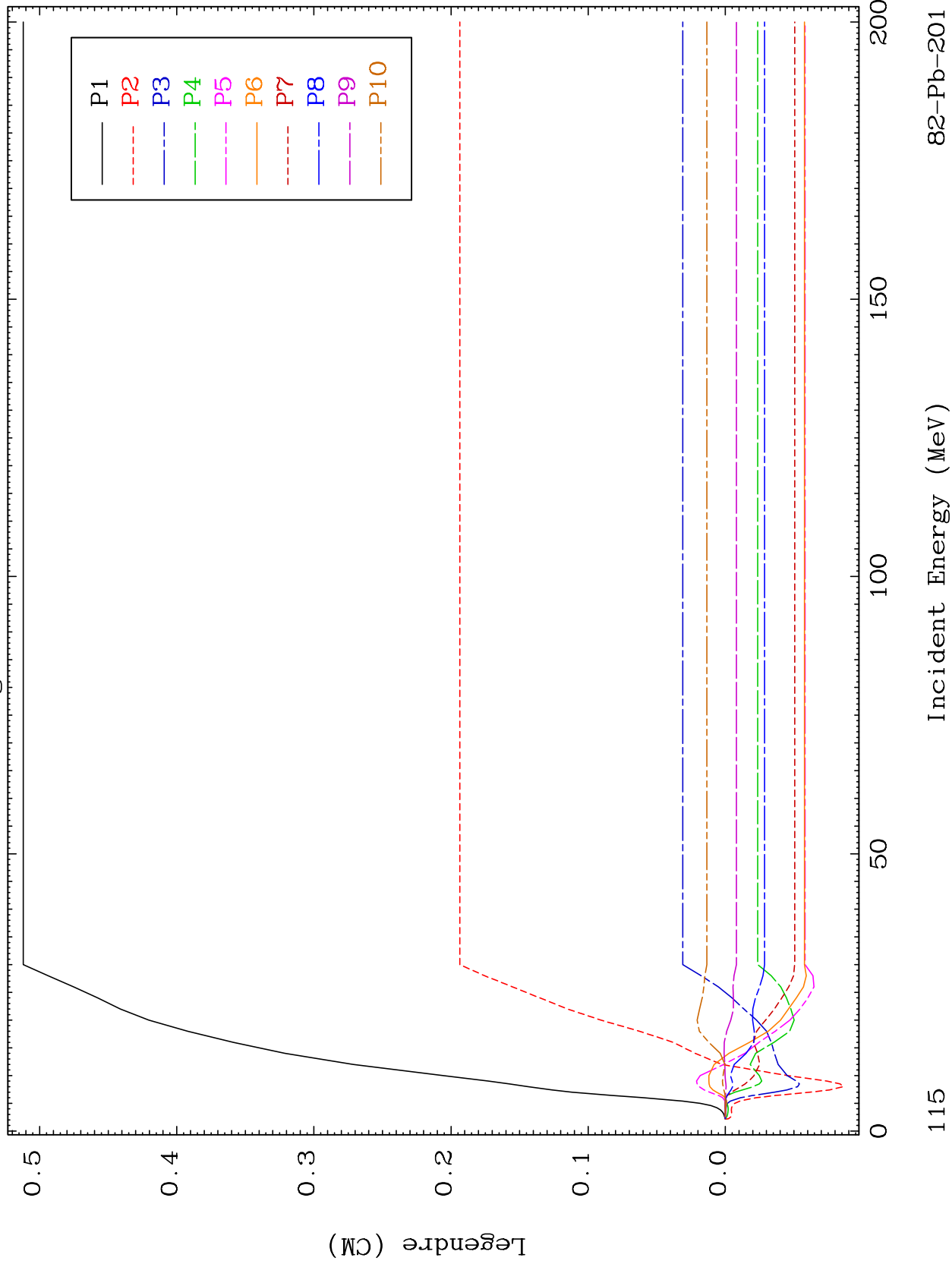
Incident Energy (MeV)

82-Pb-201

MAT 8216

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

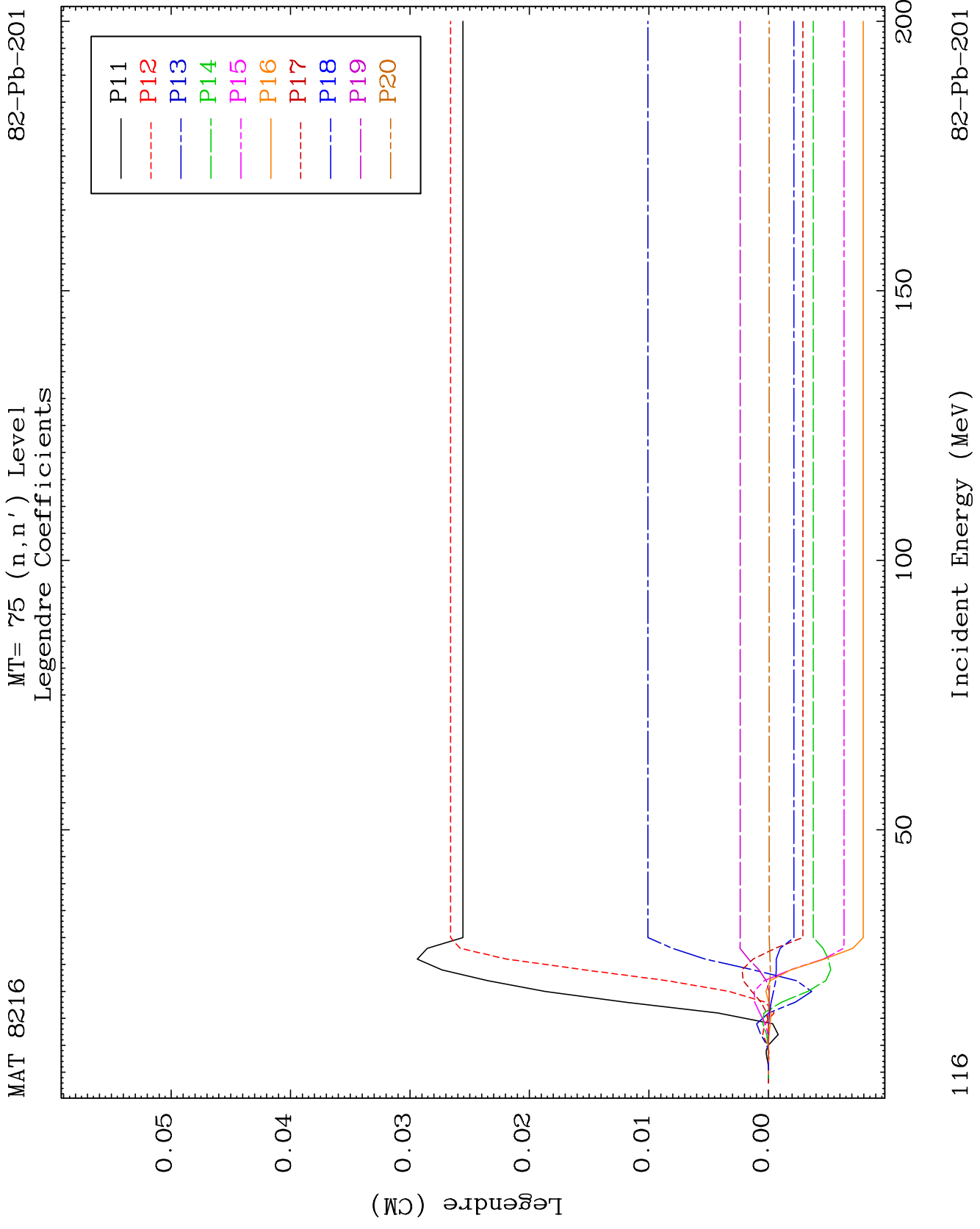
82-Pb-201



82-Pb-201

Incident Energy (MeV)

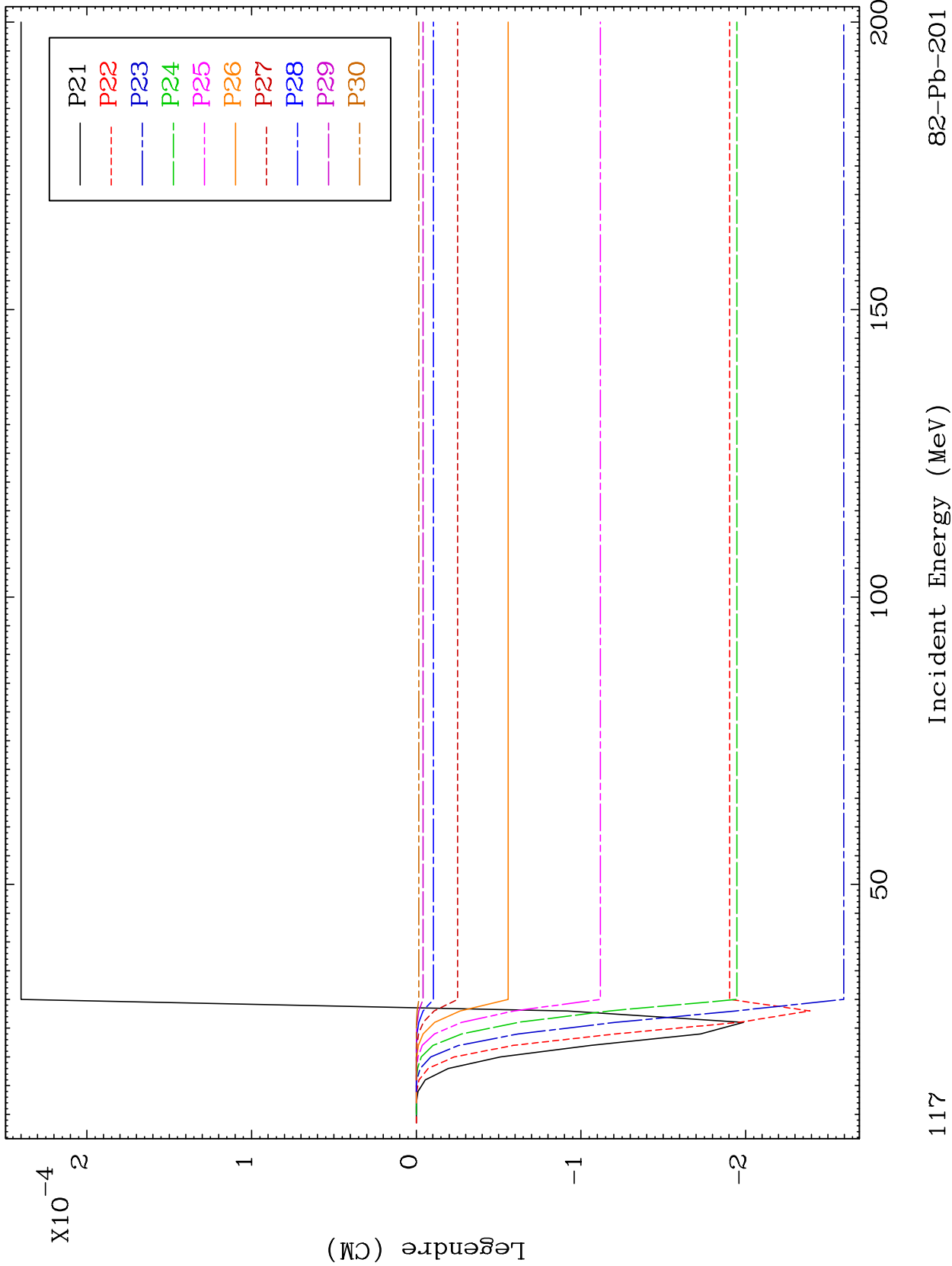
115



MAT 8216

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

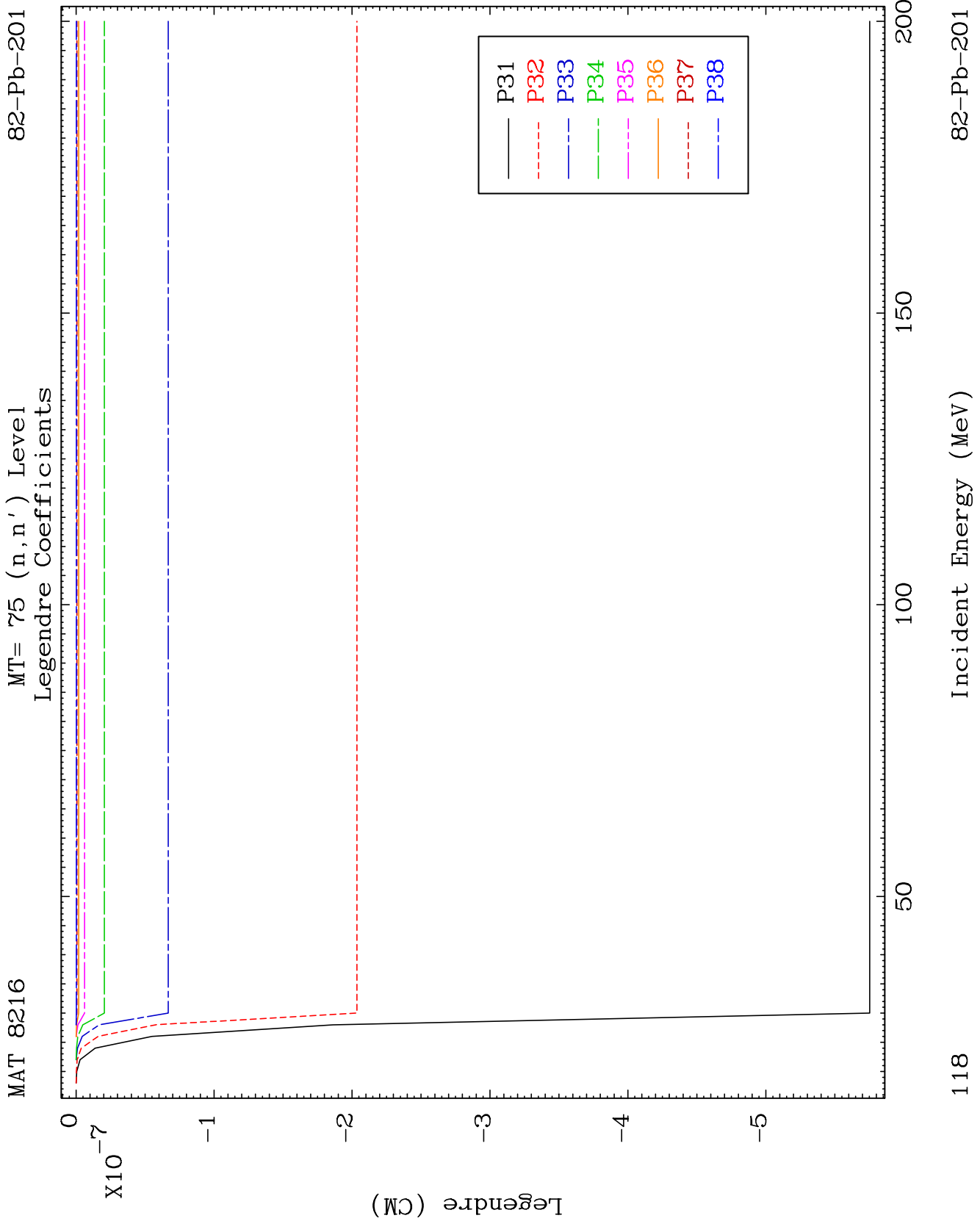
82-Pb-201



117

Incident Energy (MeV)

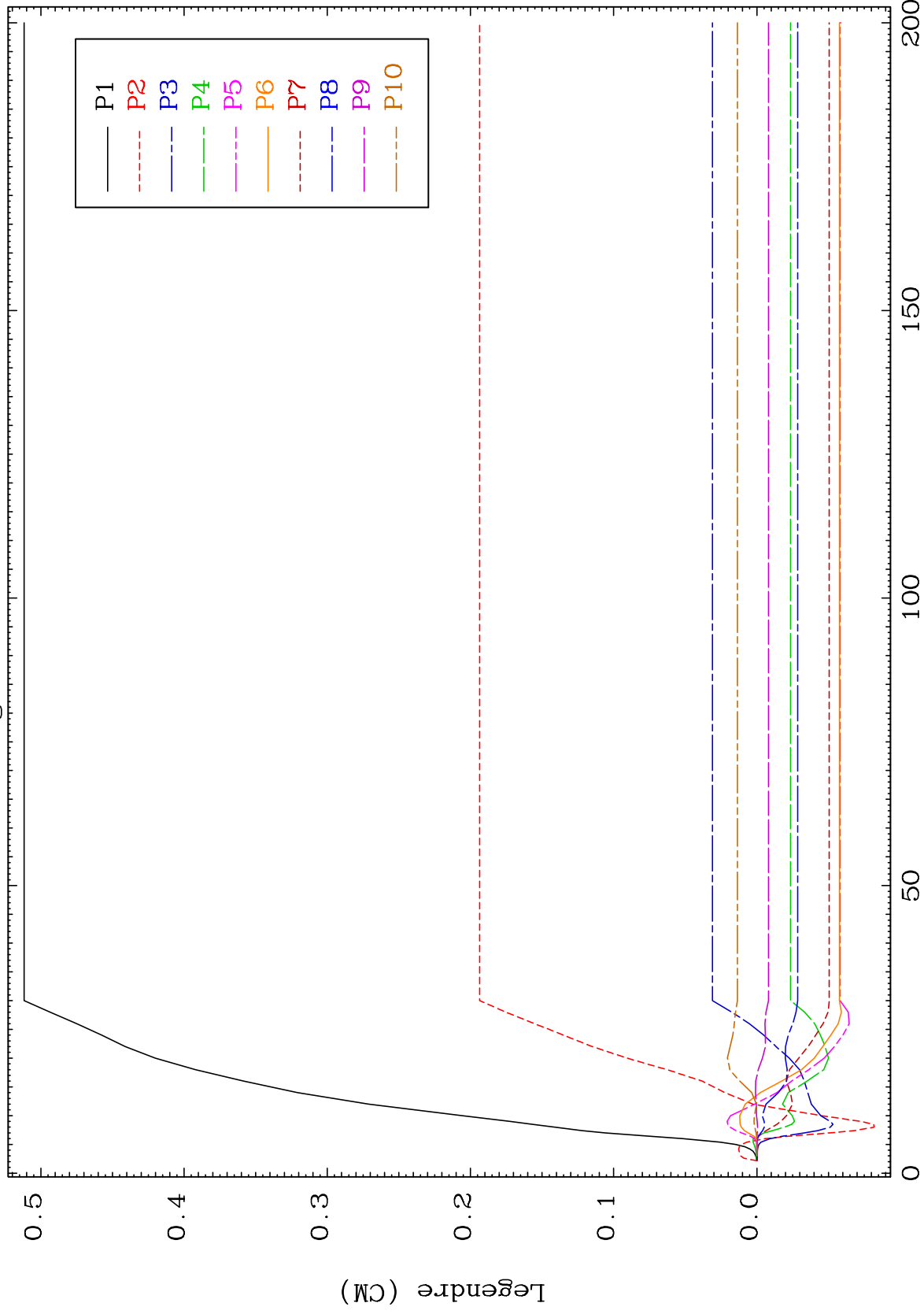
82-Pb-201



MAT 8216

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

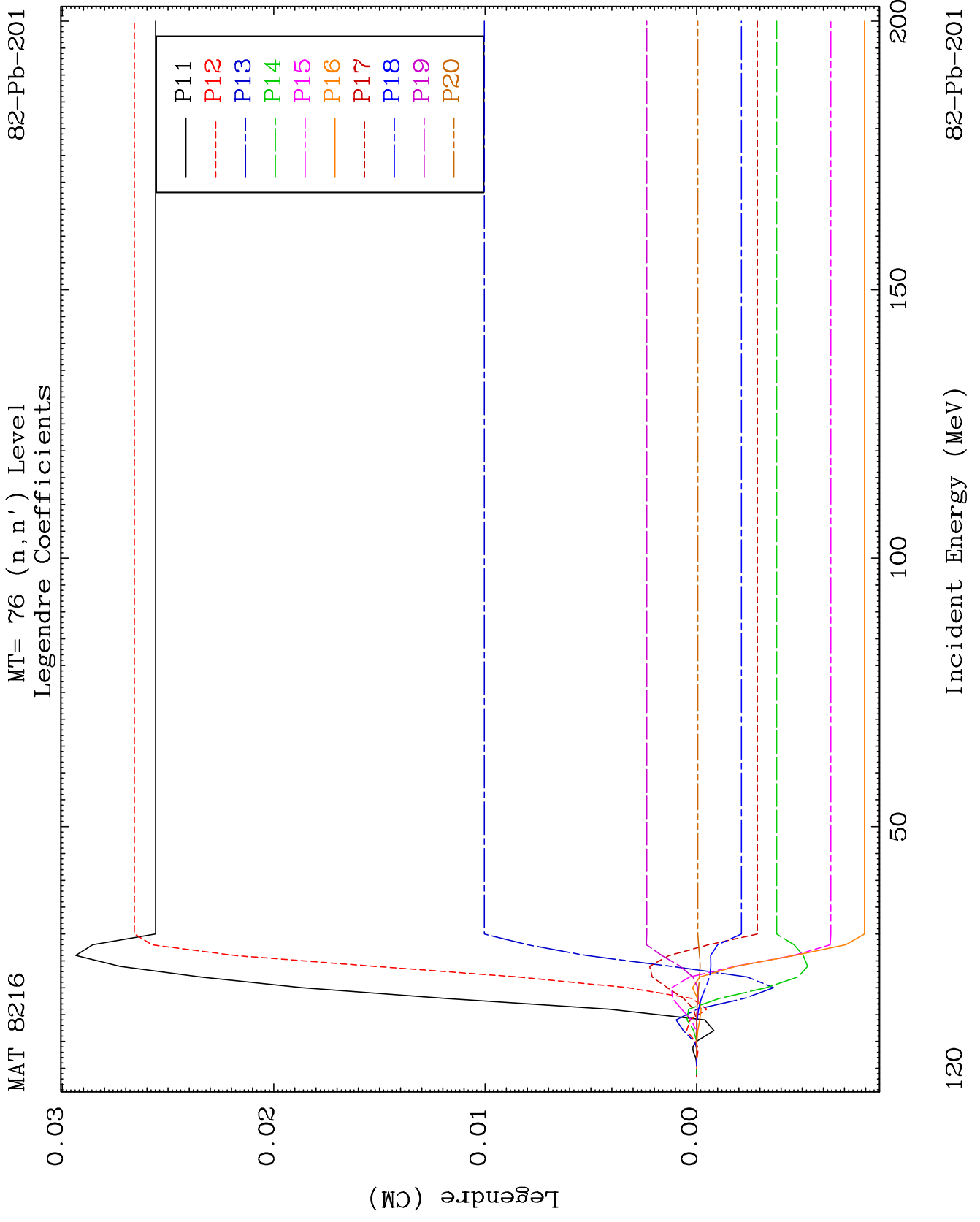
82-Pb-201



119

Incident Energy (MeV)

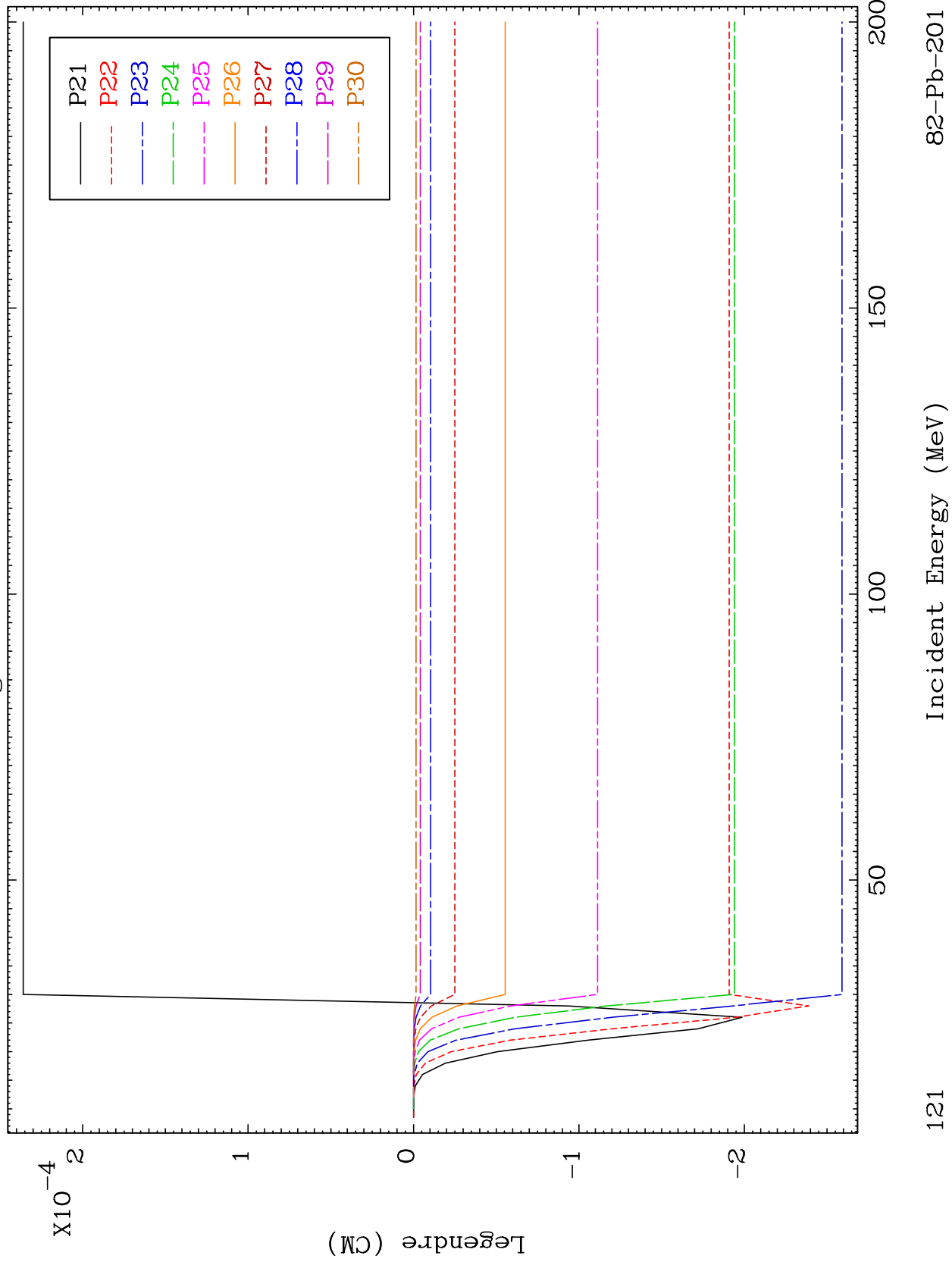
82-Pb-201



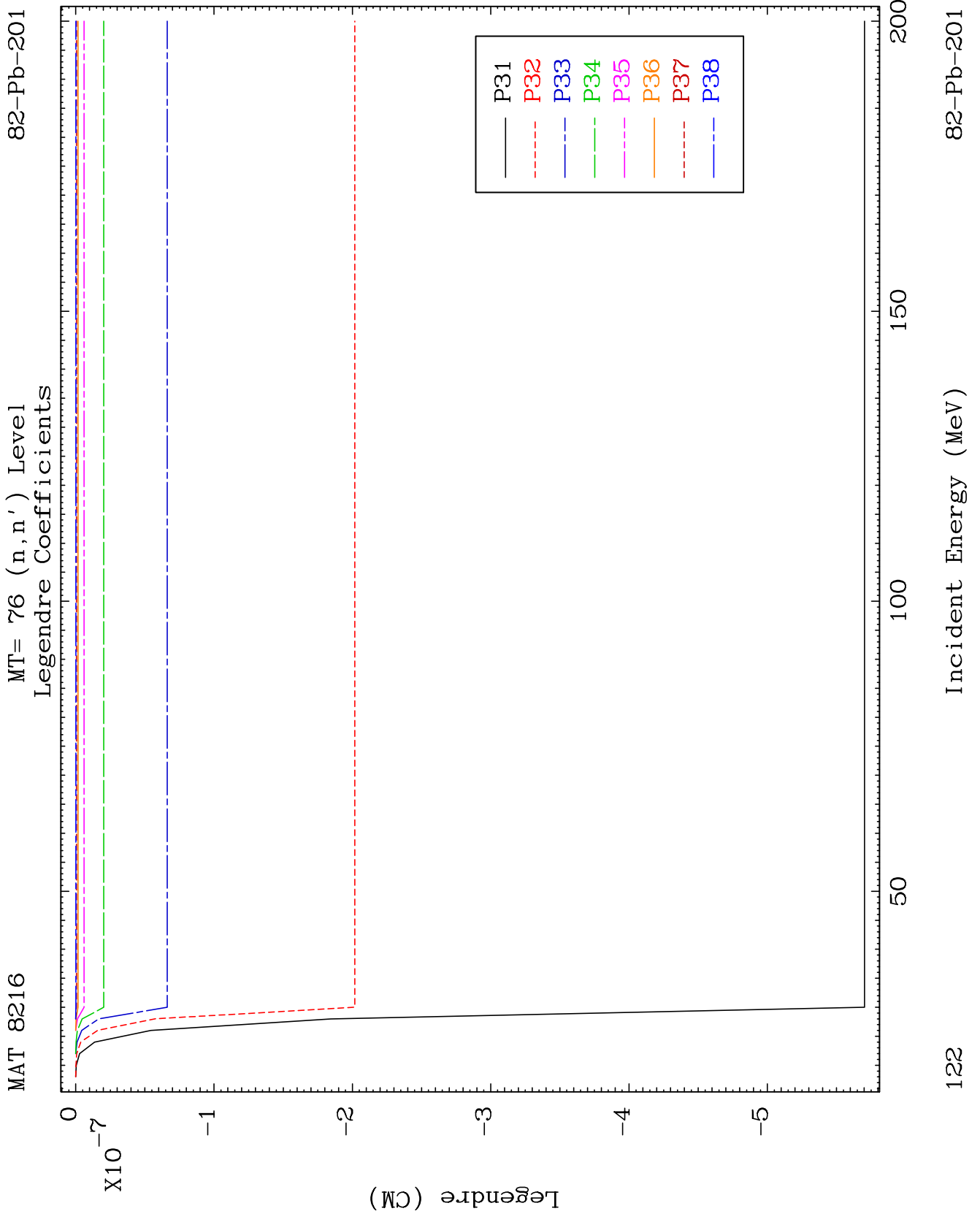
MAT 8216

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

82-Pb-201



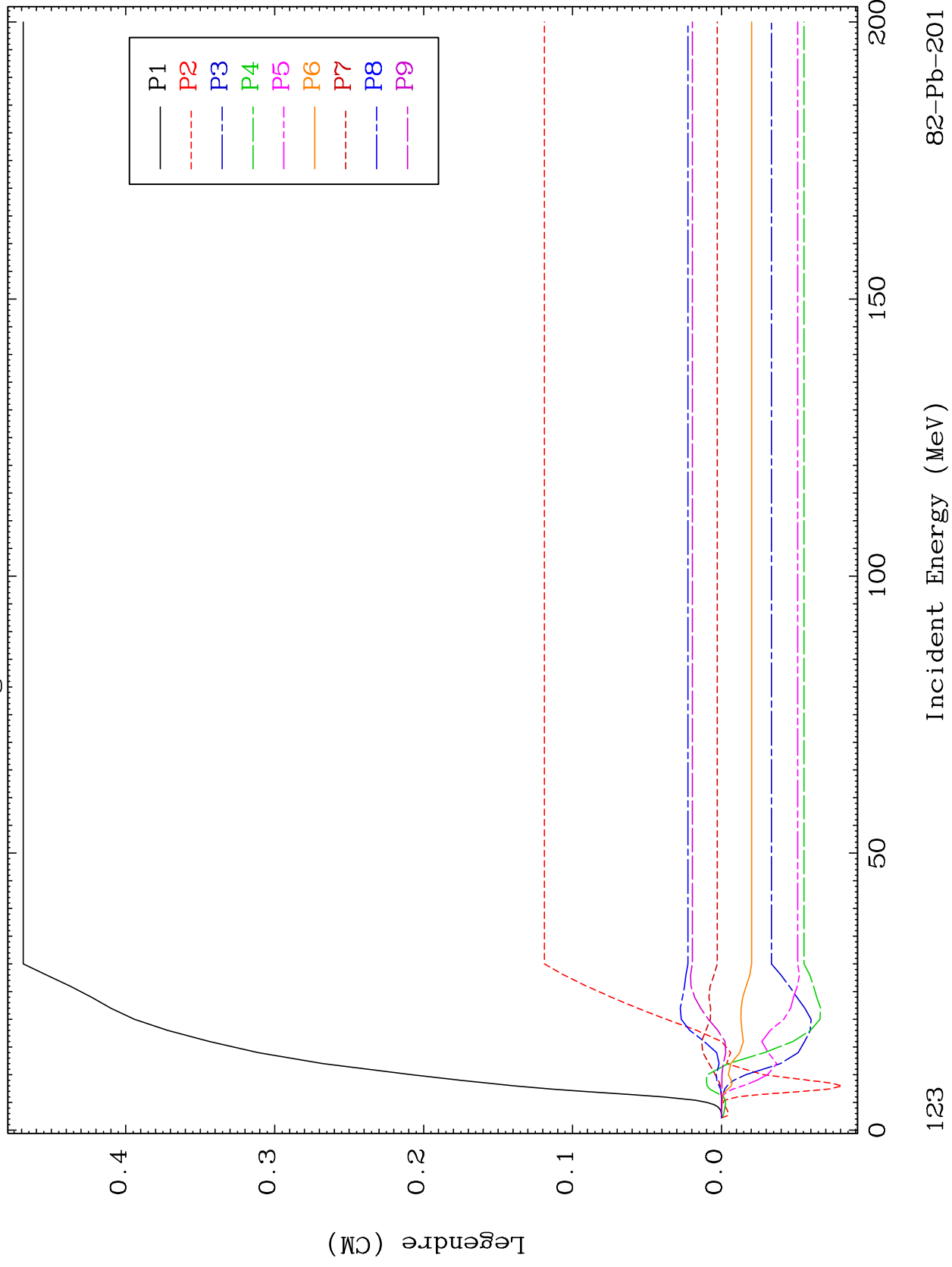
121



MAT 8216

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

82-Pb-201



123

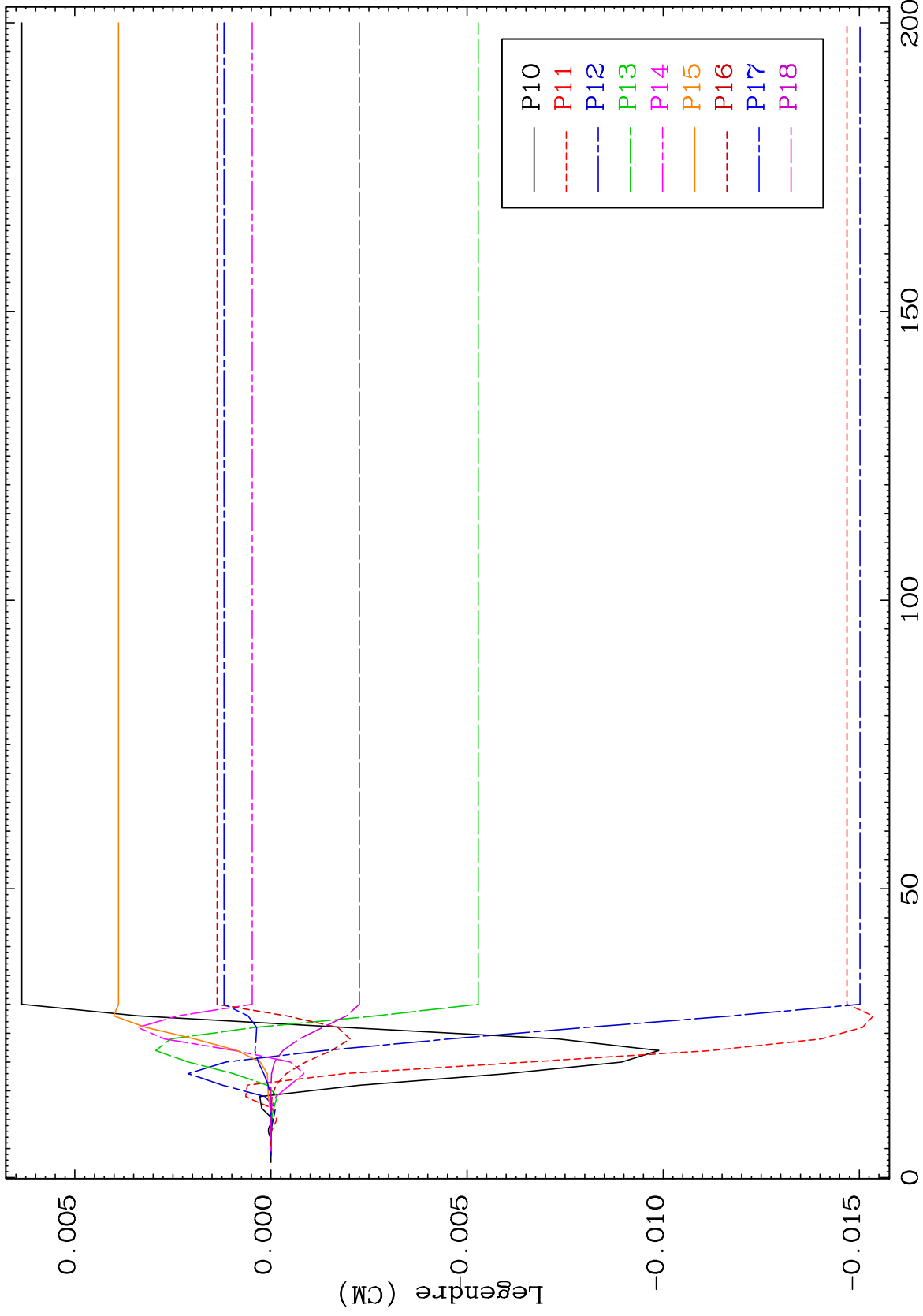
Incident Energy (MeV)

82-Pb-201

MAT 8216

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

82-Pb-201



124

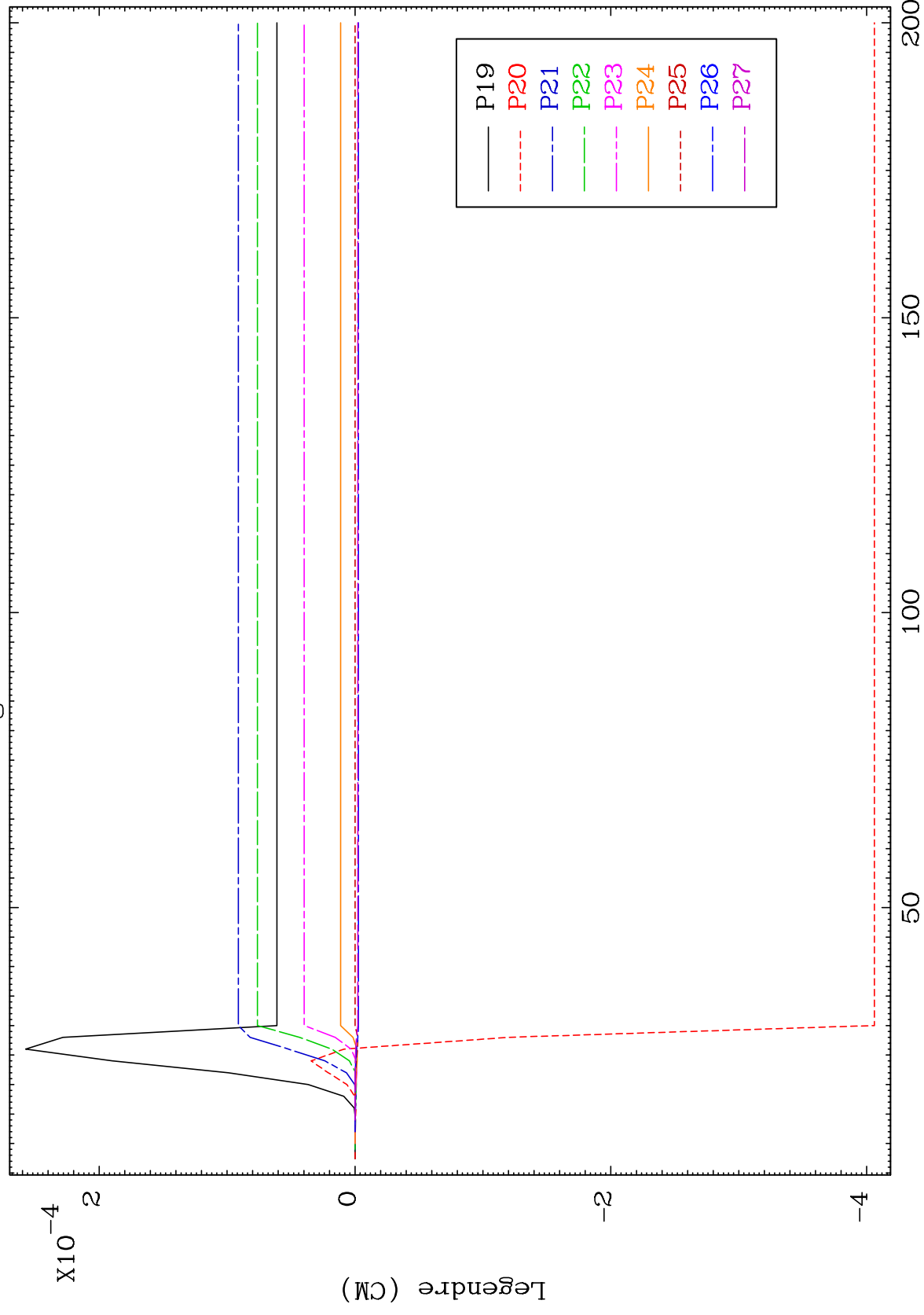
Incident Energy (MeV)

82-Pb-201

MAT 8216

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

82-Pb-201



125

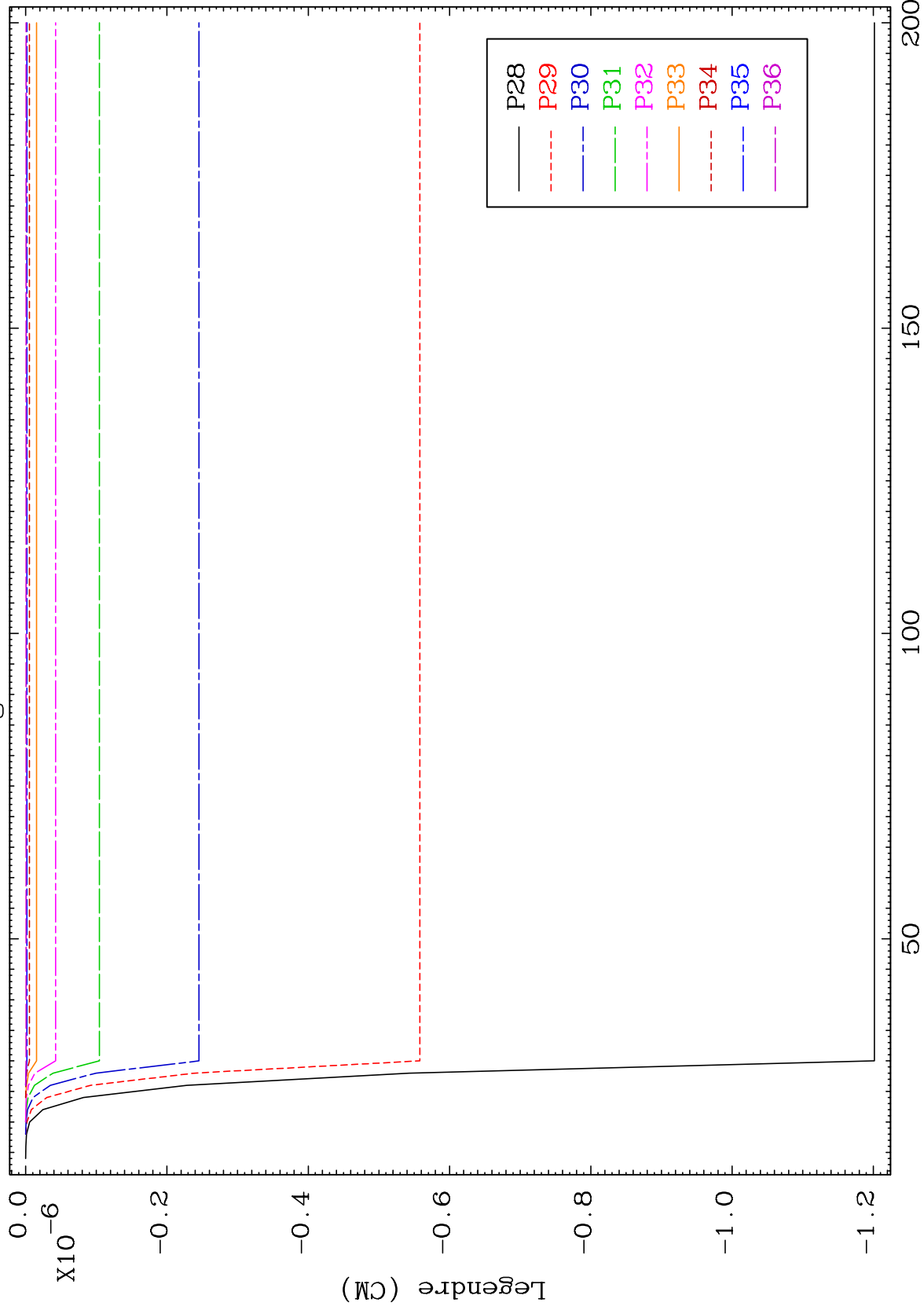
Incident Energy (MeV)

82-Pb-201

MAT 8216

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

82-Pb-201



126

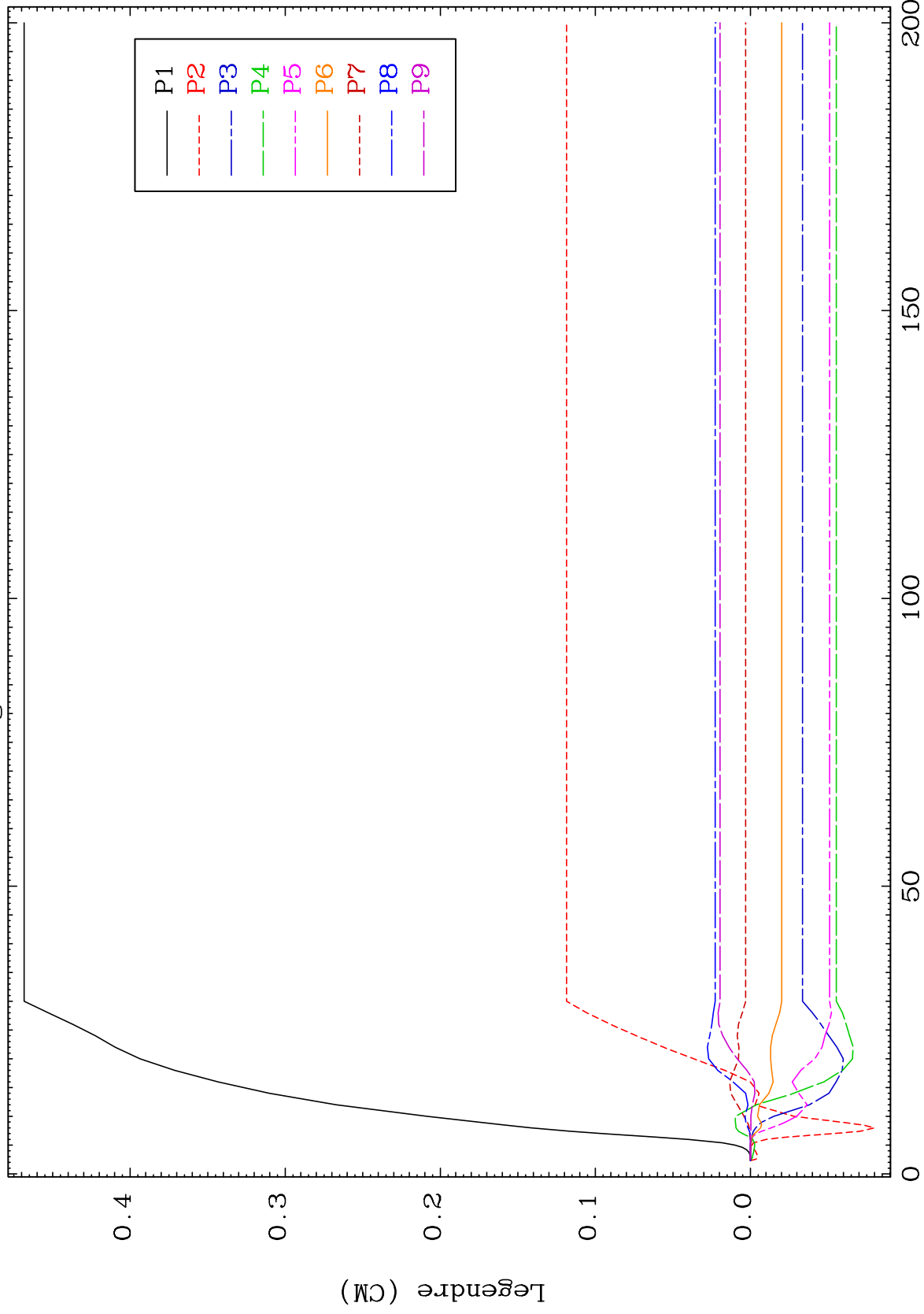
Incident Energy (MeV)

82-Pb-201

MAT 8216

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

82-Pb-201



127

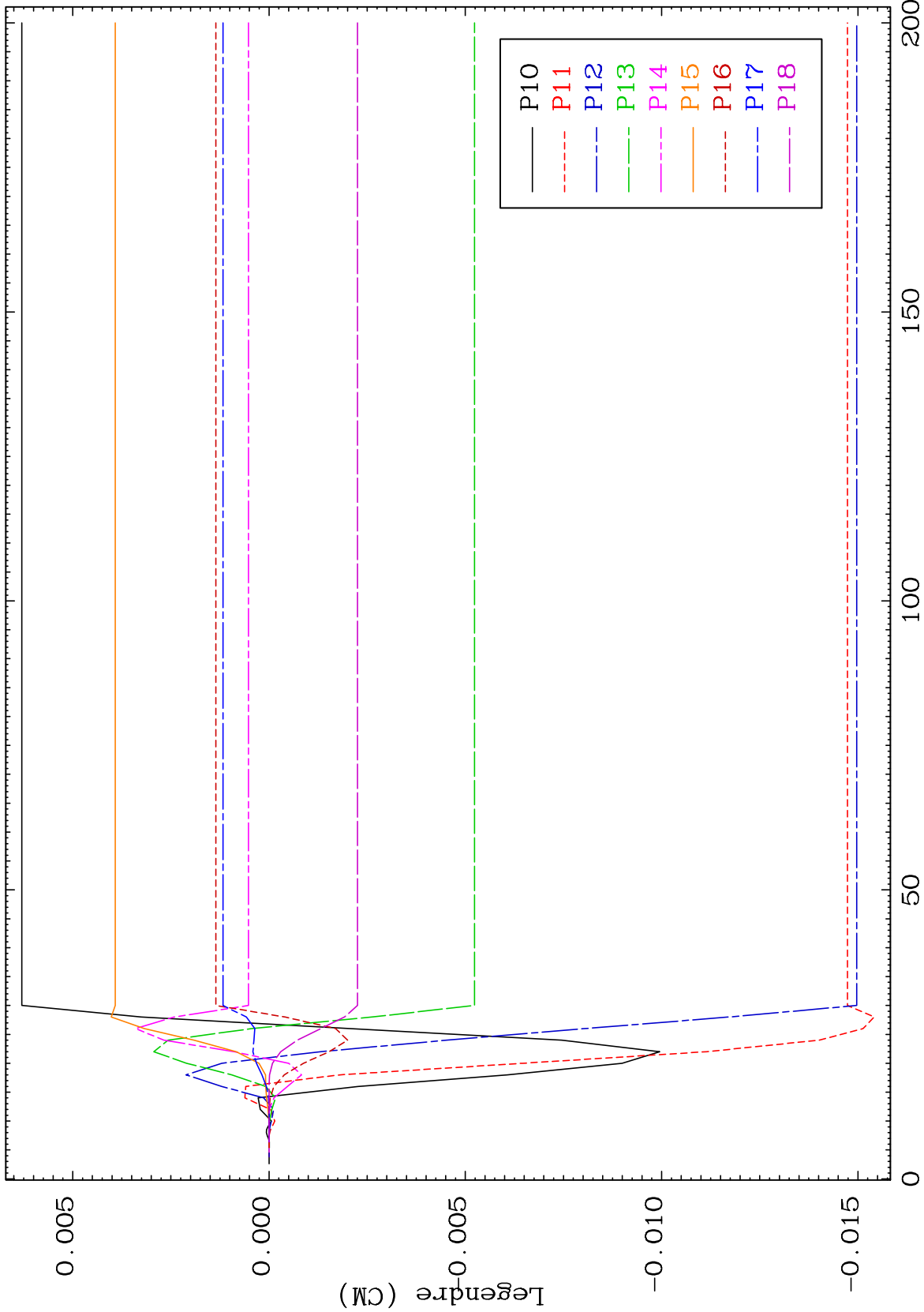
Incident Energy (MeV)

82-Pb-201

MAT 8216

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

82-Pb-201



128

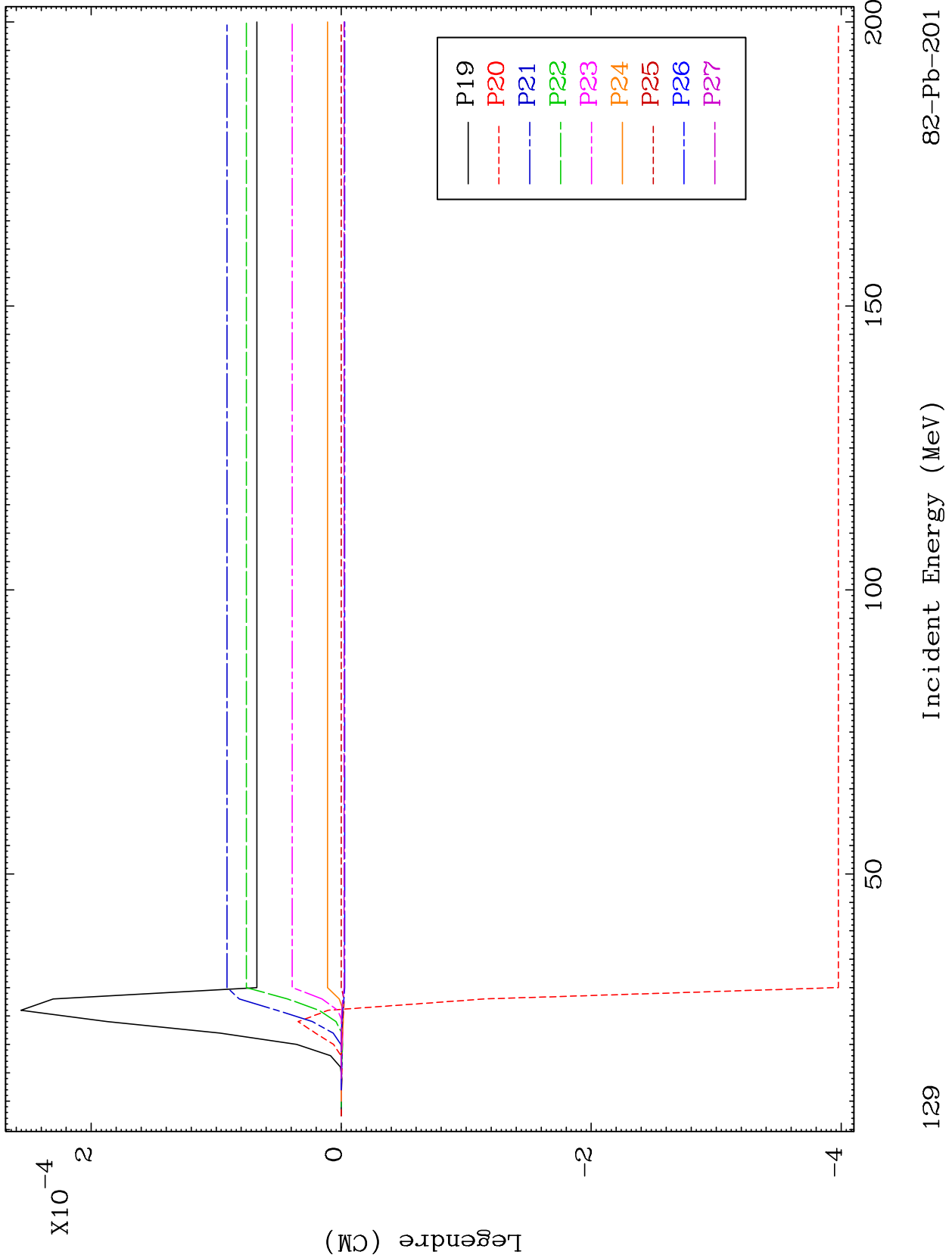
Incident Energy (MeV)

82-Pb-201

MAT 8216

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

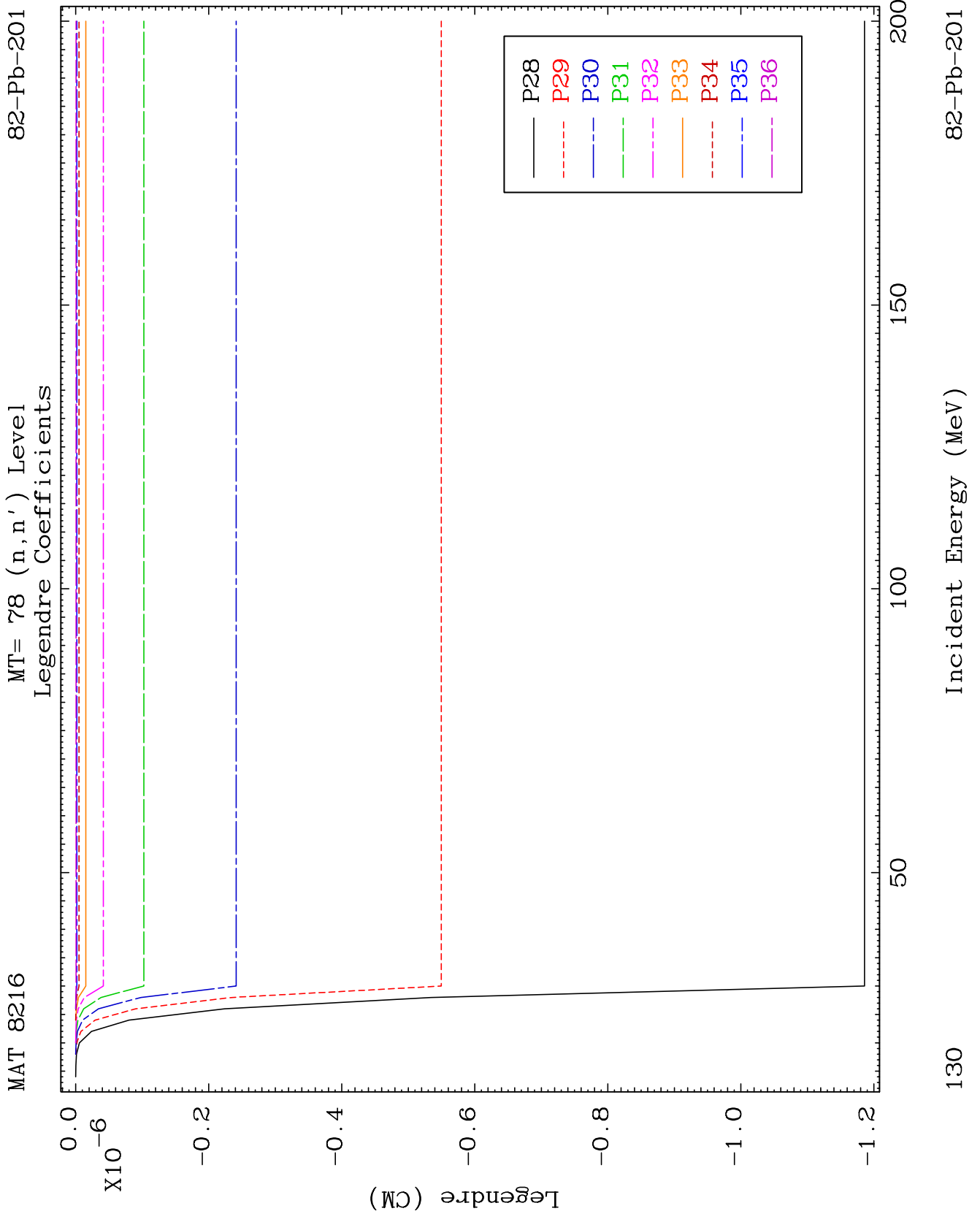
82-Pb-201



129

Incident Energy (MeV)

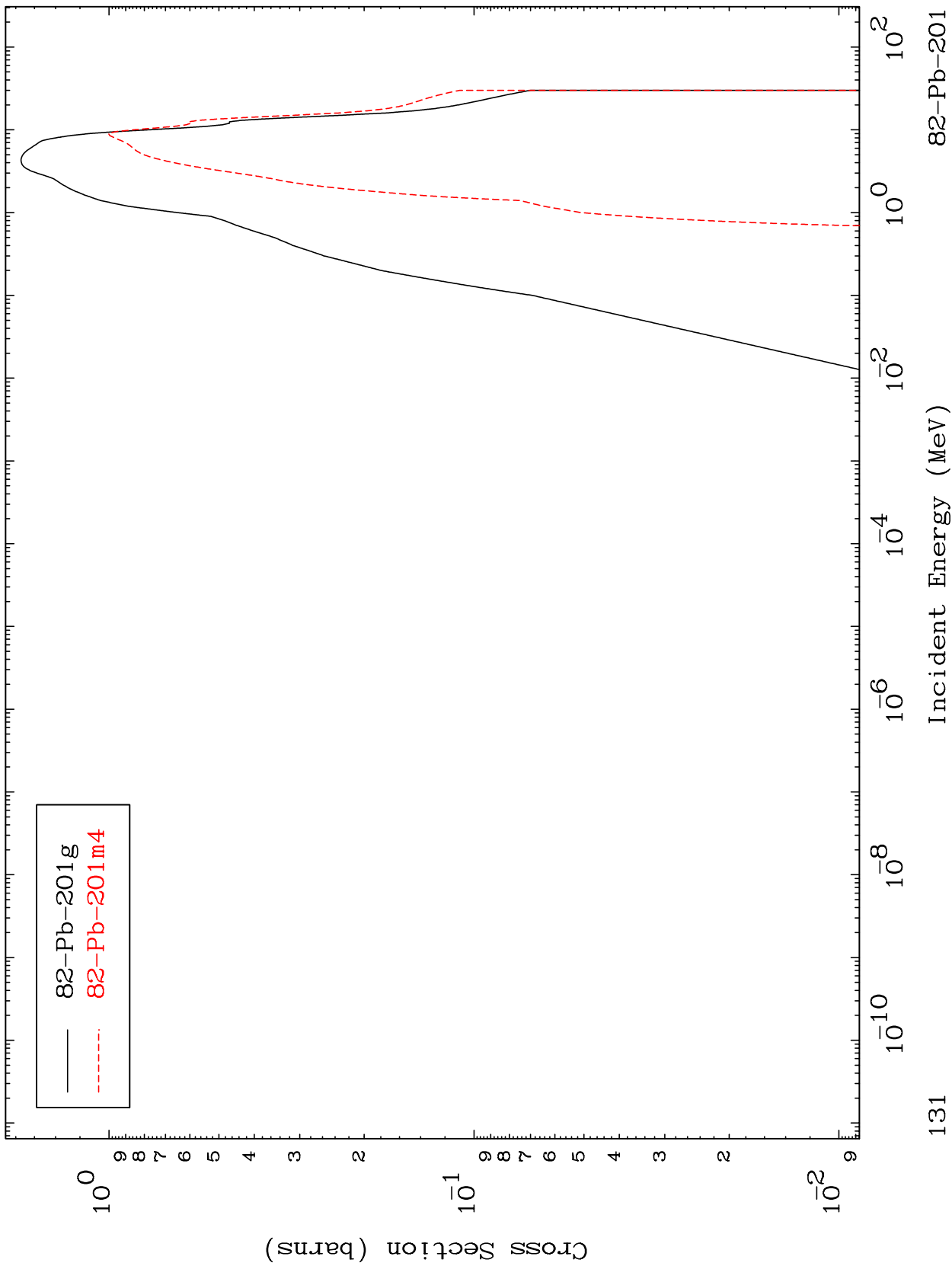
82-Pb-201



MAT 8216

Inelastic
Radionuclide Production Cross Section

82-Pb-201



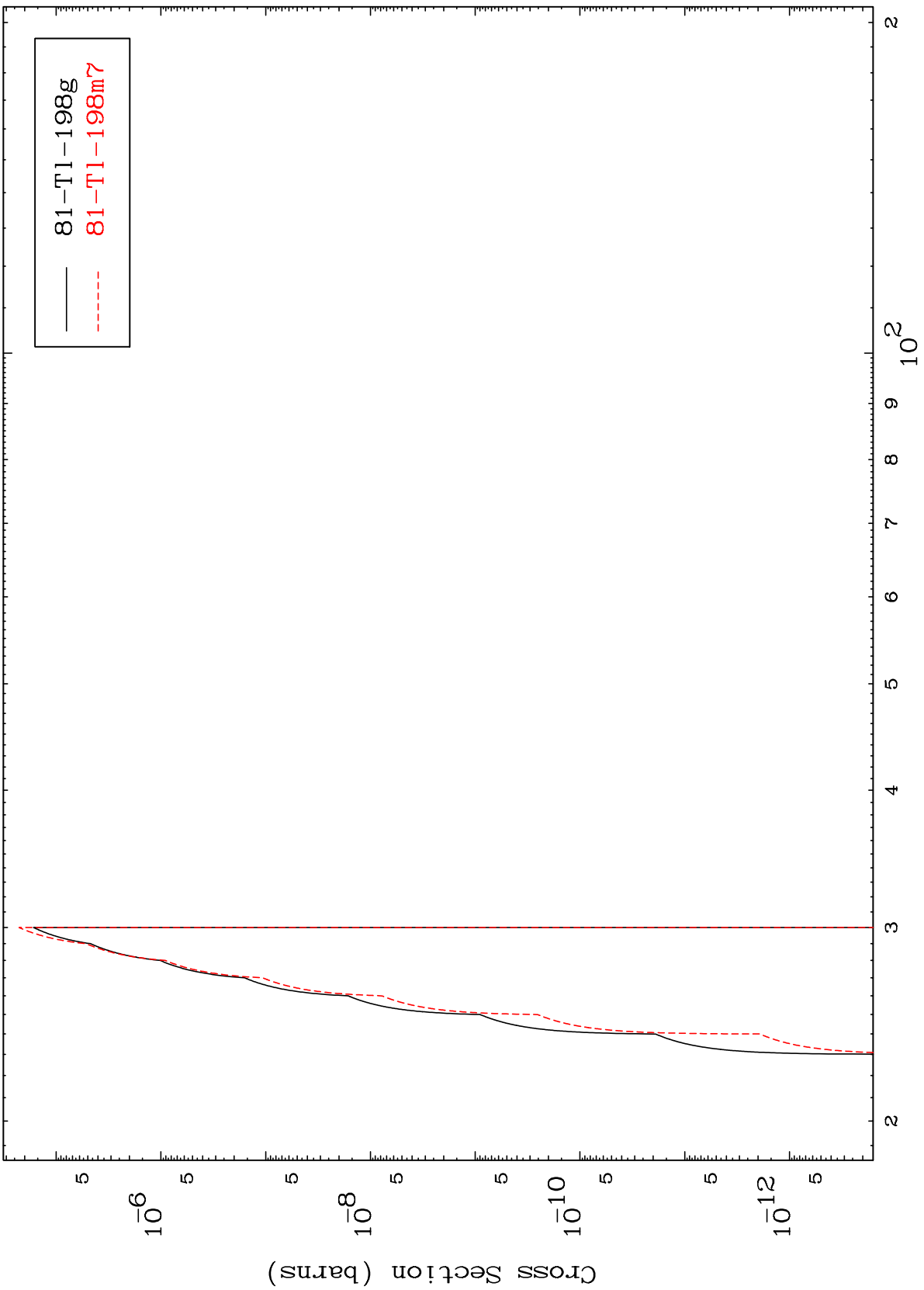
82-Pb-201 g
82-Pb-201 m4

MAT 8216

(n,2n) d

82-Pb-201

Radionuclide Production Cross Section



132

Incident Energy (MeV)

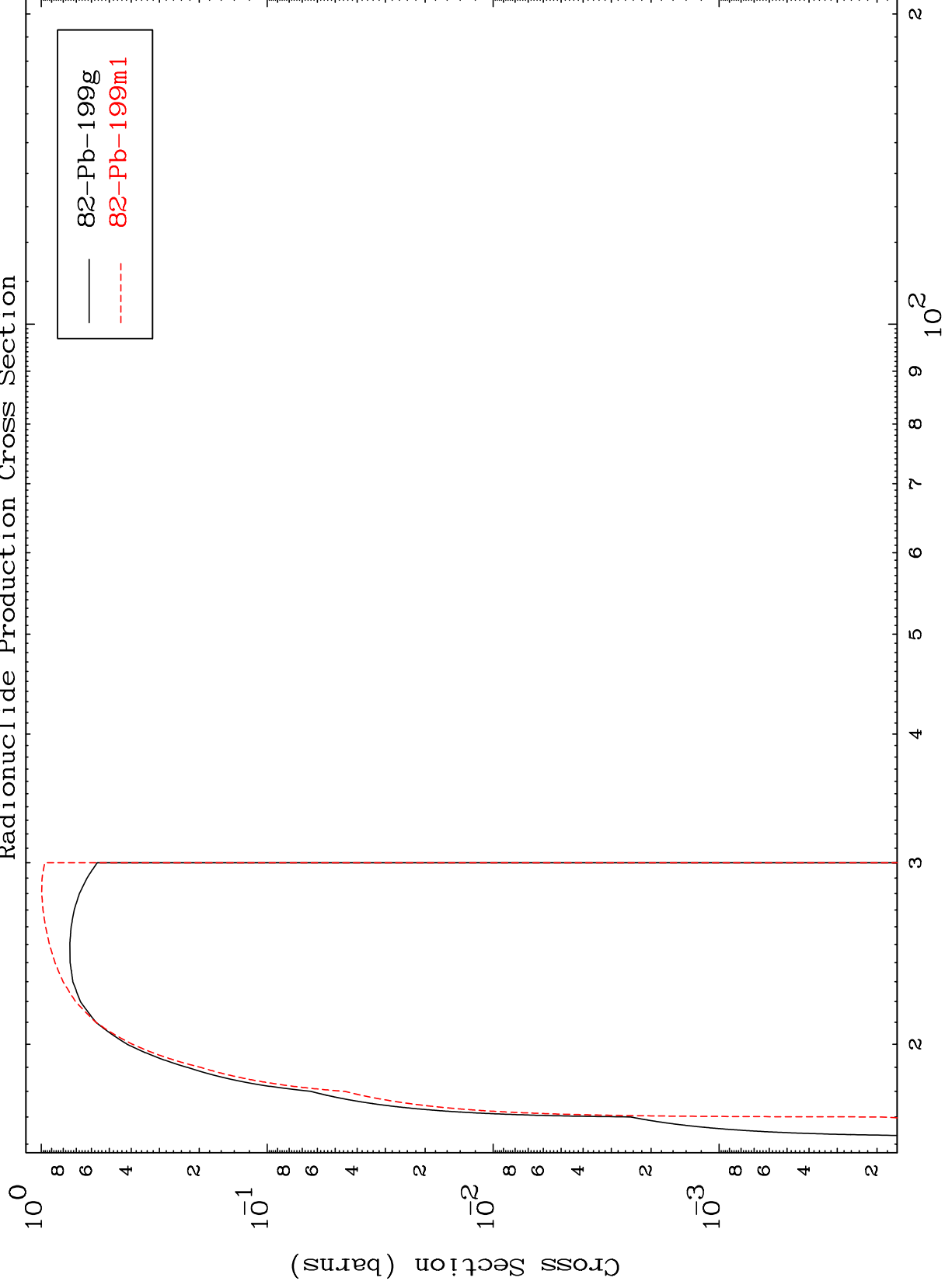
82-Pb-201

MAT 8216

(n,3n)

82-Pb-201

Radionuclide Production Cross Section



133

Incident Energy (MeV)

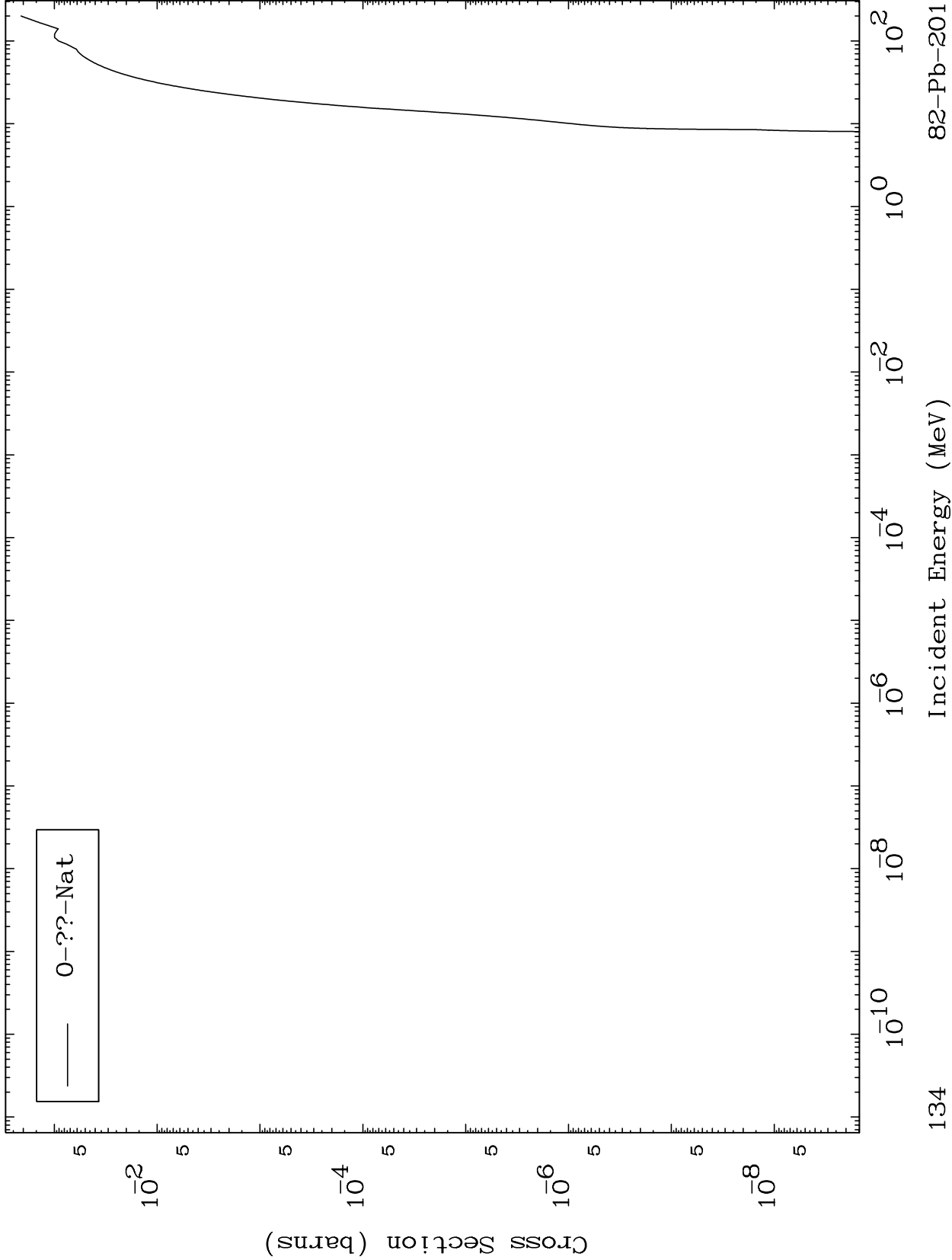
82-Pb-201

MAT 8216

Fission

82-Pb-201

Radionuclide Production Cross Section

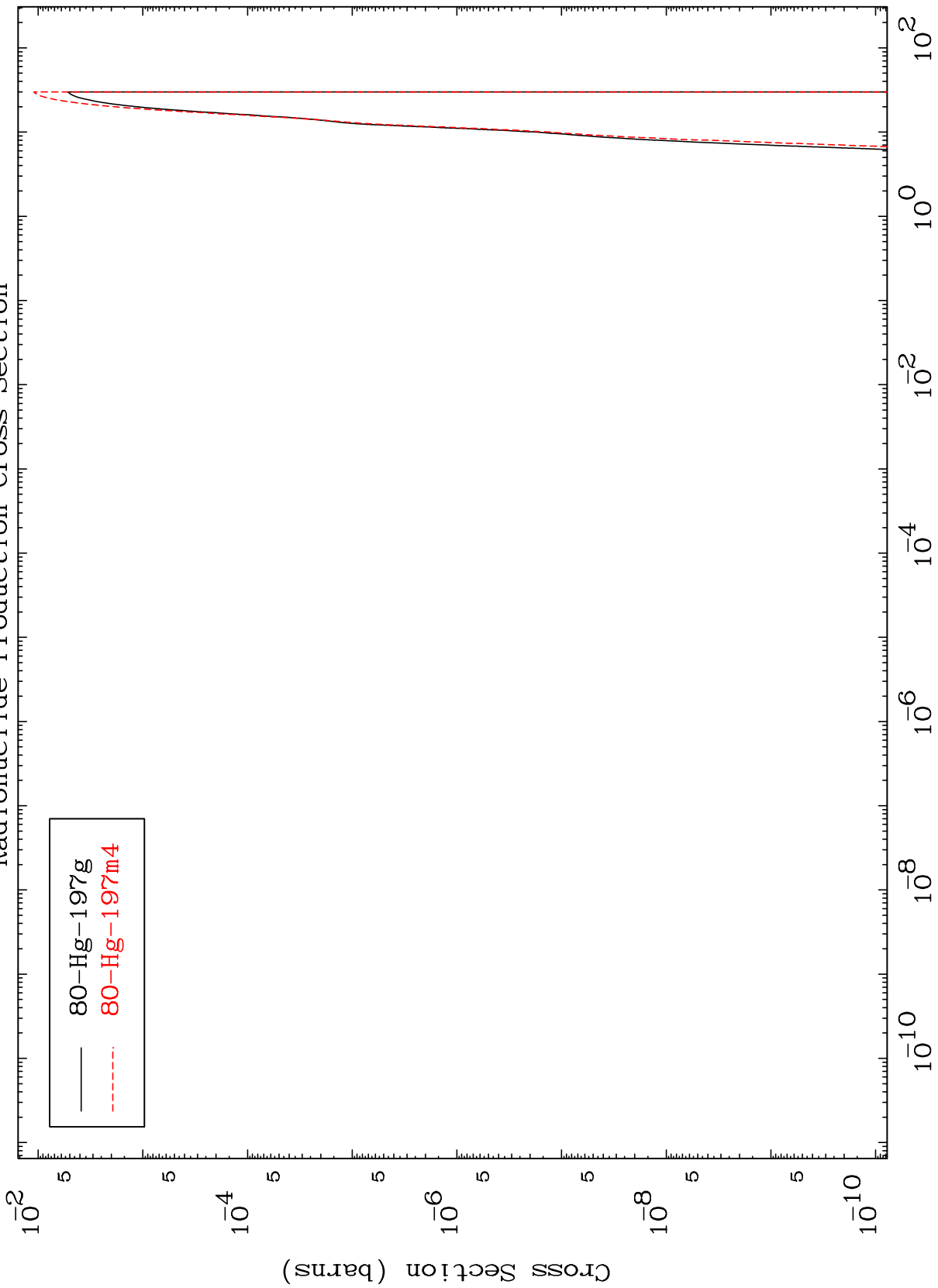


MAT 8216

$(n, n') \alpha$

82-Pb-201

Radionuclide Production Cross Section



135

Incident Energy (MeV)

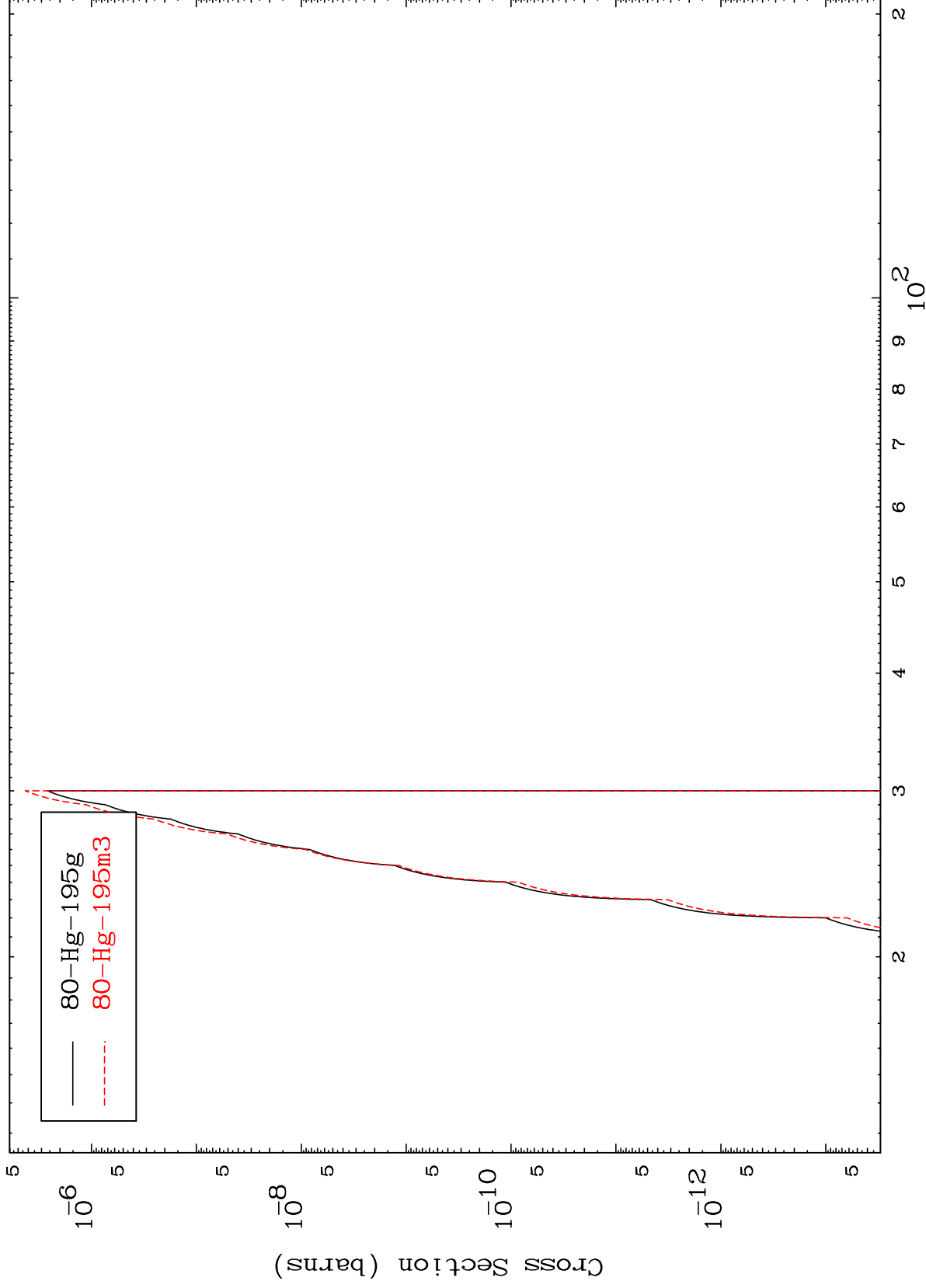
82-Pb-201

MAT 8216

(n,3n) α

82-Pb-201

Radionuclide Production Cross Section



136

Incident Energy (MeV)

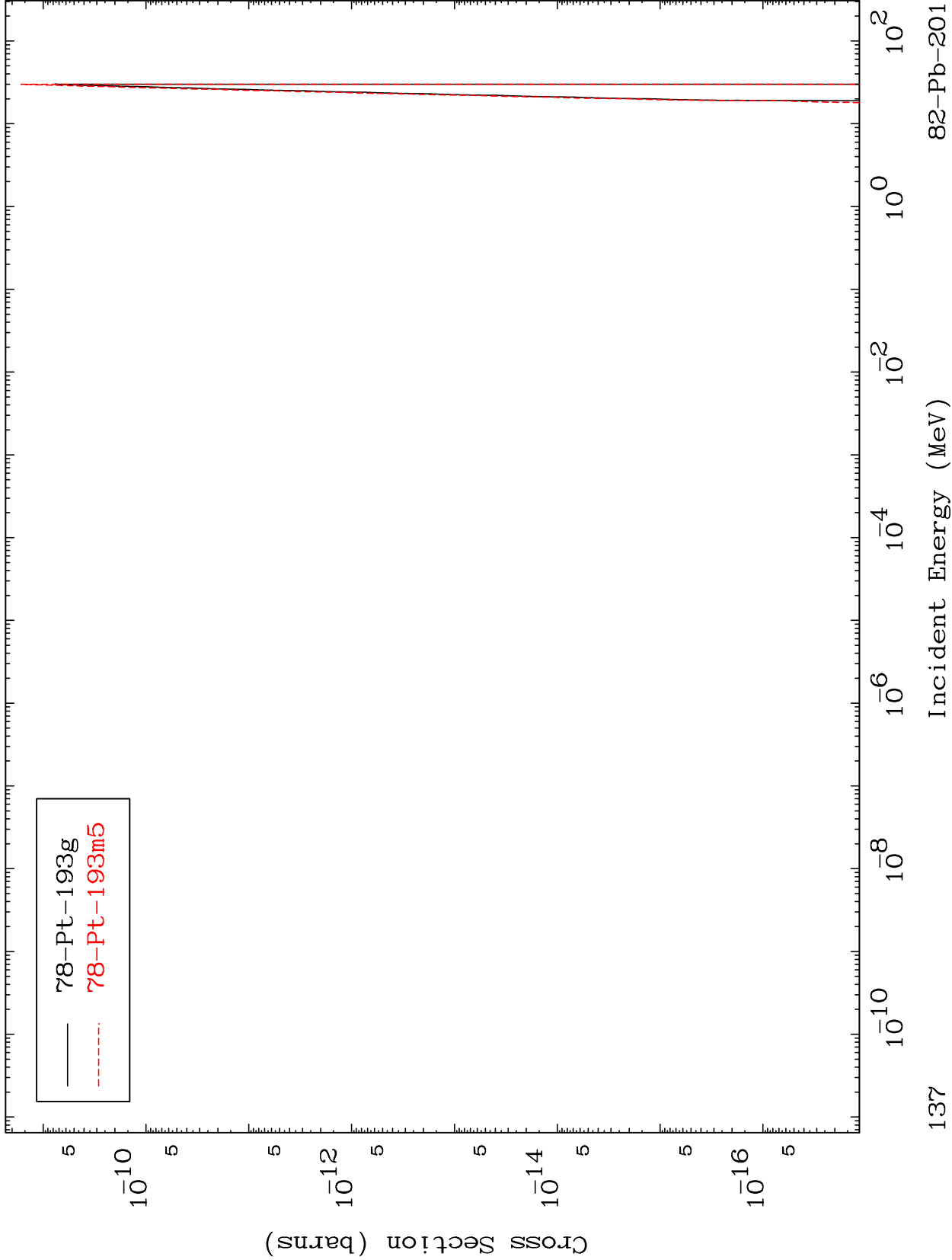
82-Pb-201

MAT 8216

(n,n') 2 α

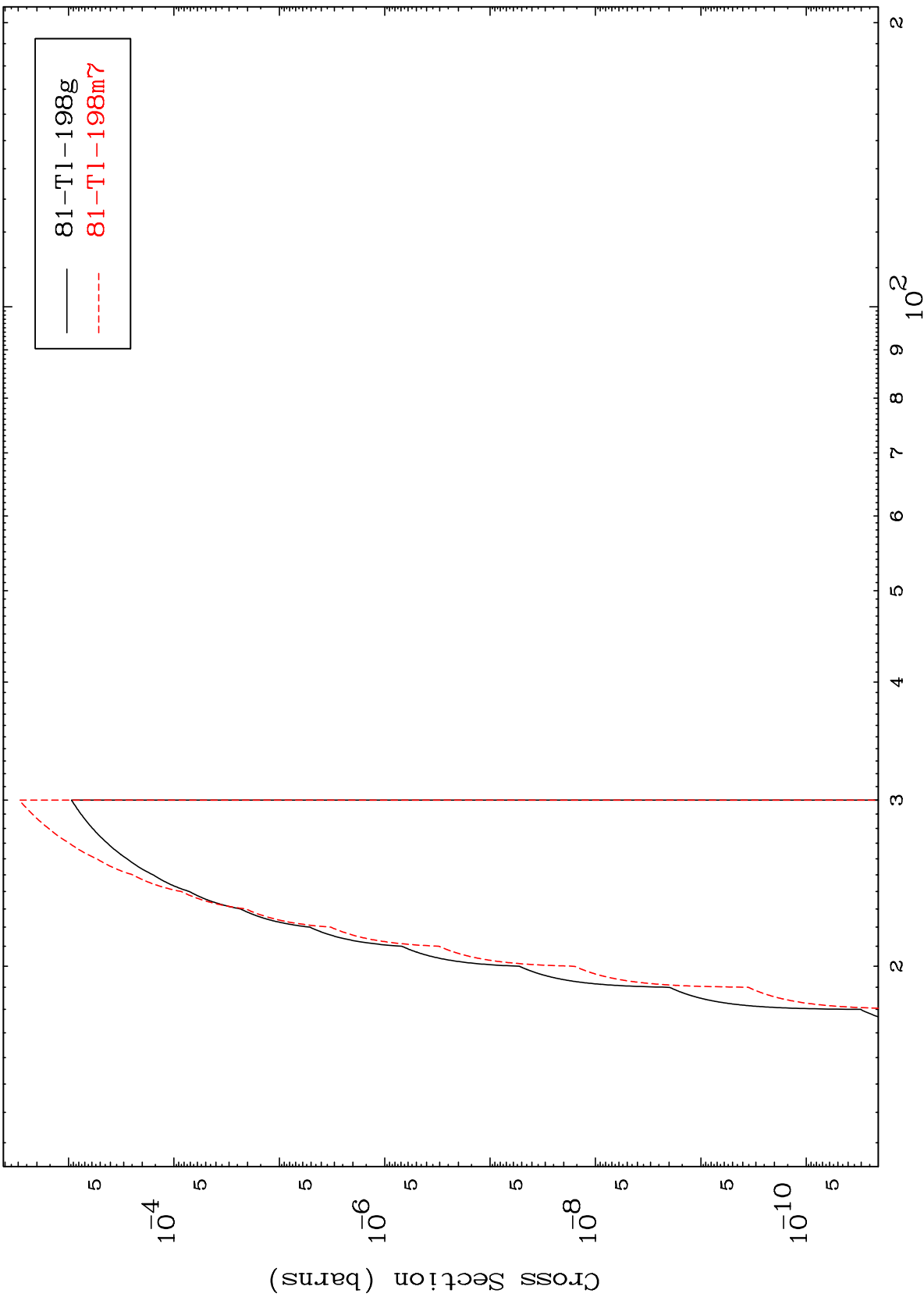
82-Pb-201

Radionuclide Production Cross Section



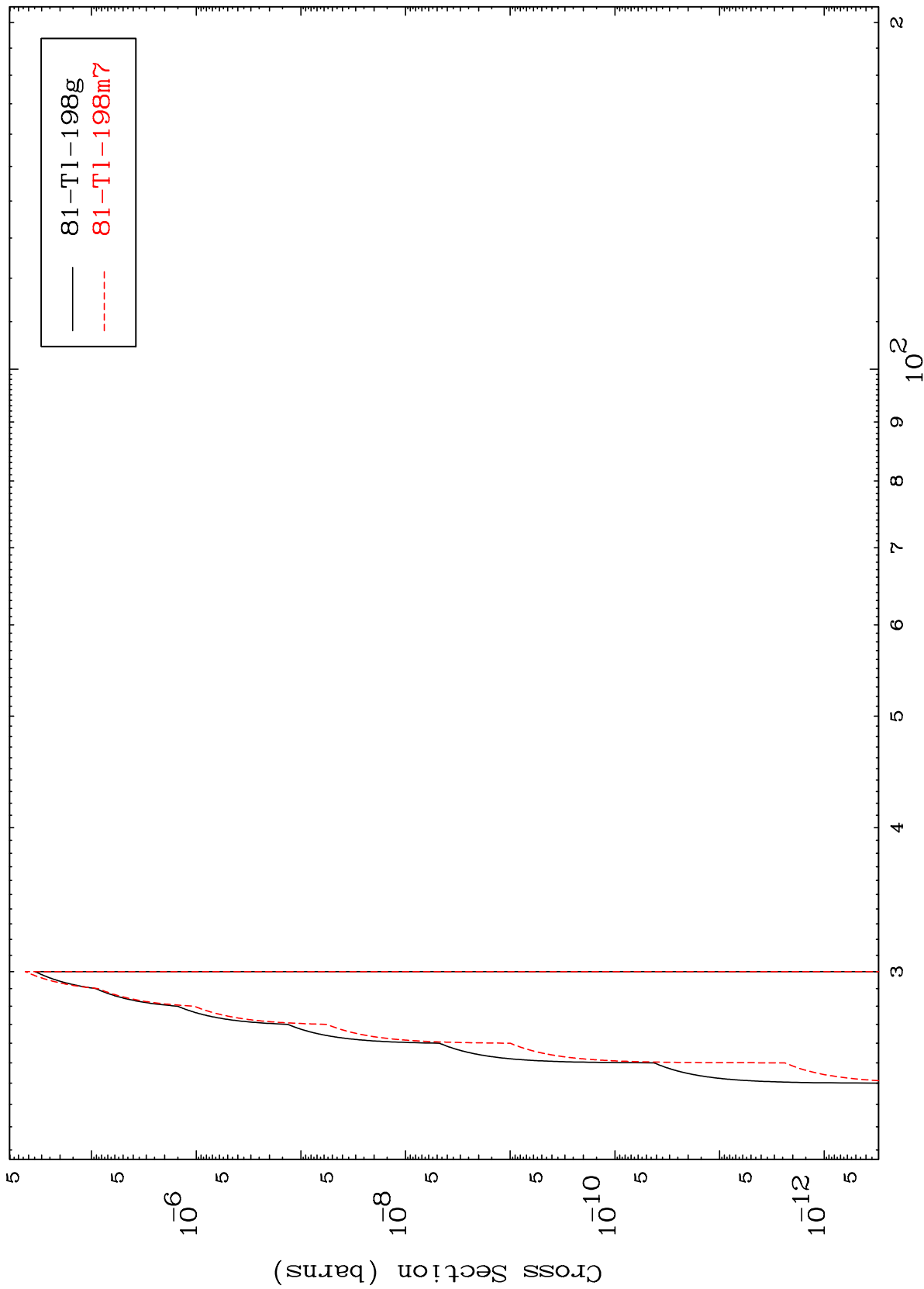
137

Radionuclide Production Cross Section



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

Radionuclide Production Cross Section



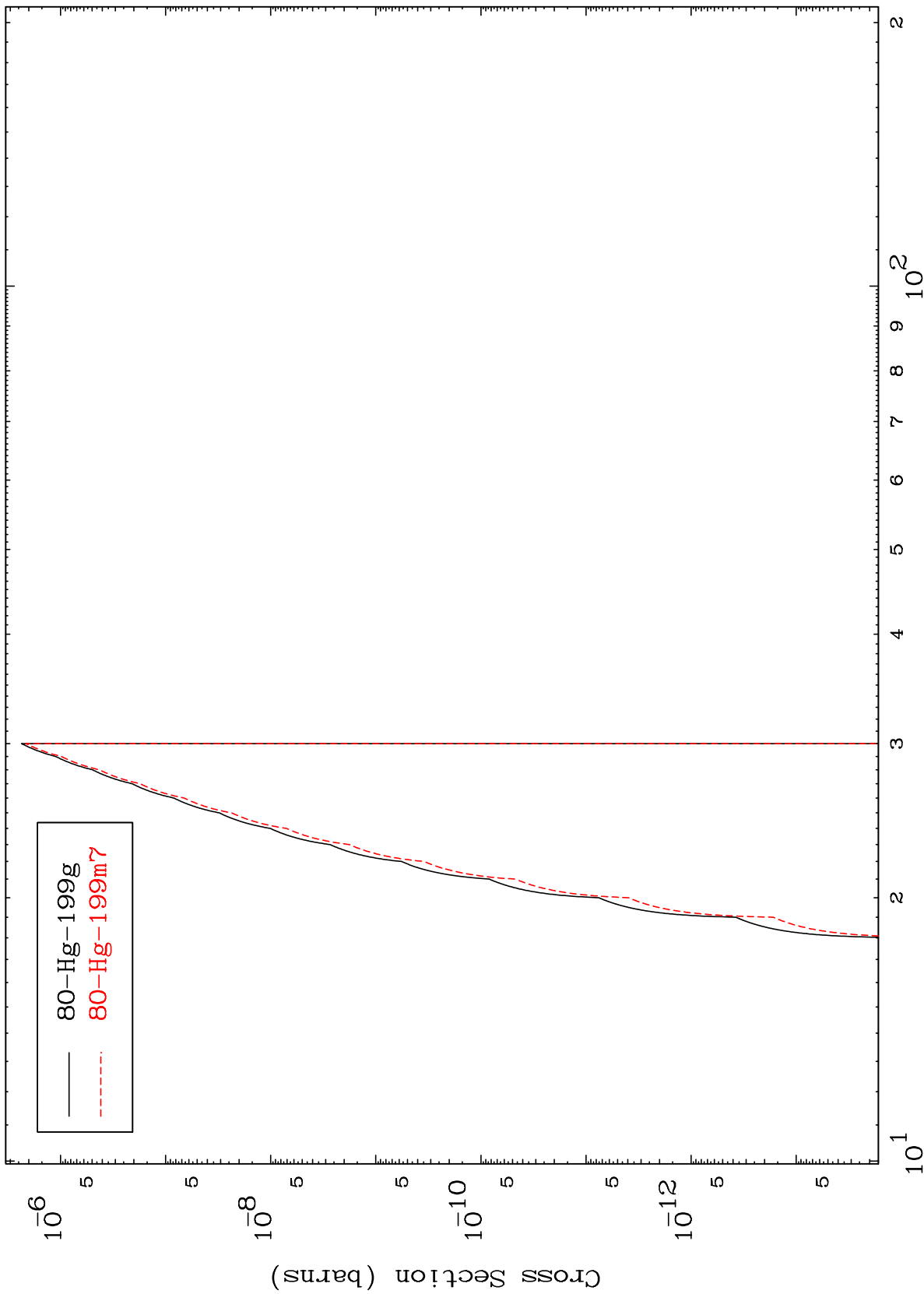
81-Tl-198g
81-Tl-198m7

MAT 8216

(n,2n) p

82-Pb-201

Radionuclide Production Cross Section



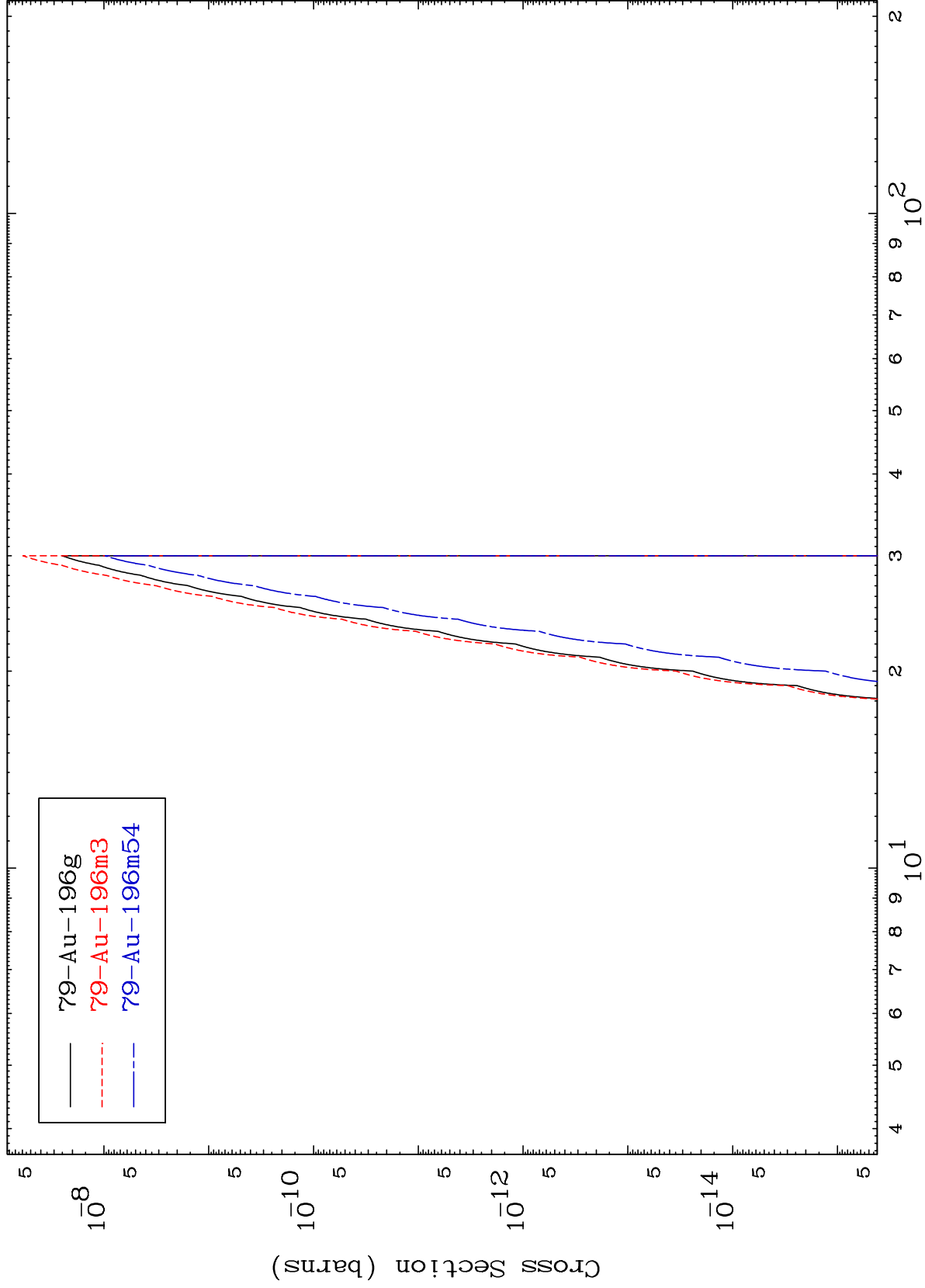
80-Hg-199g
80-Hg-199m7

140

Incident Energy (MeV)

82-Pb-201

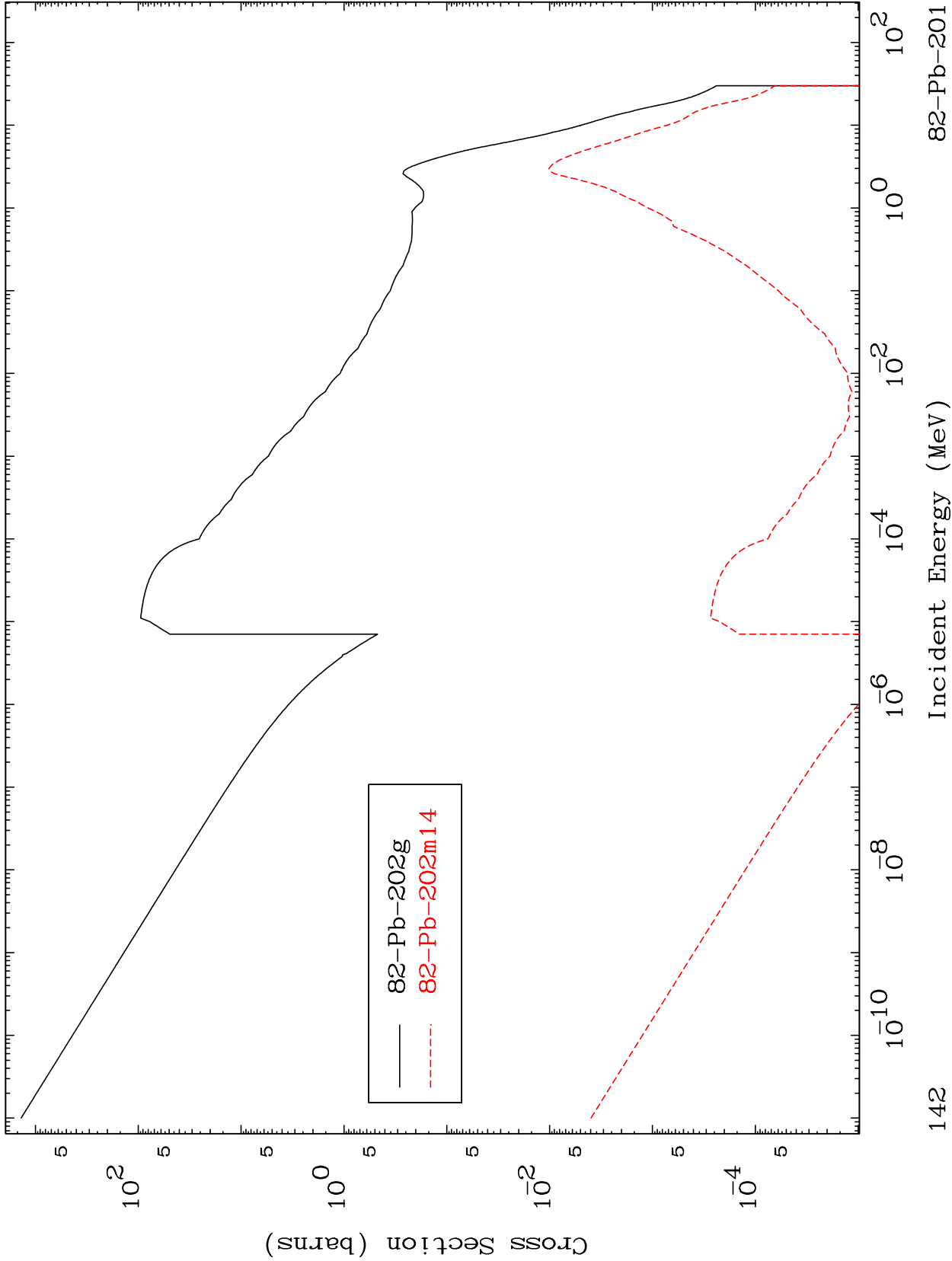
Radionuclide Production Cross Section



MAT 8216

82-Pb-201

(n, γ)
Radionuclide Production Cross Section



142

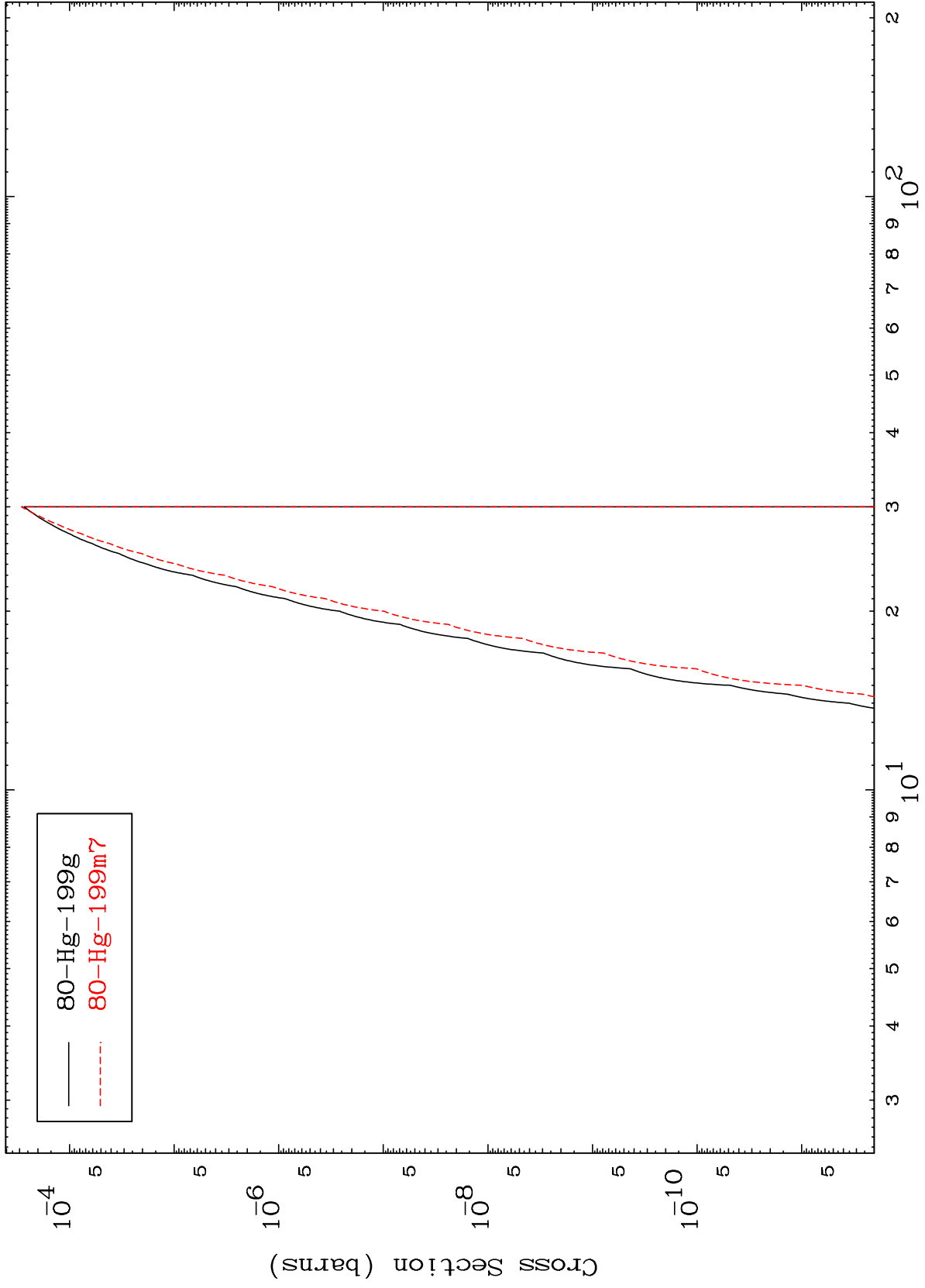
82-Pb-201

MAT 8216

(n,He-3)

82-Pb-201

Radionuclide Production Cross Section



— 80-Hg-199g
- - - 80-Hg-199m7

143

Incident Energy (MeV)

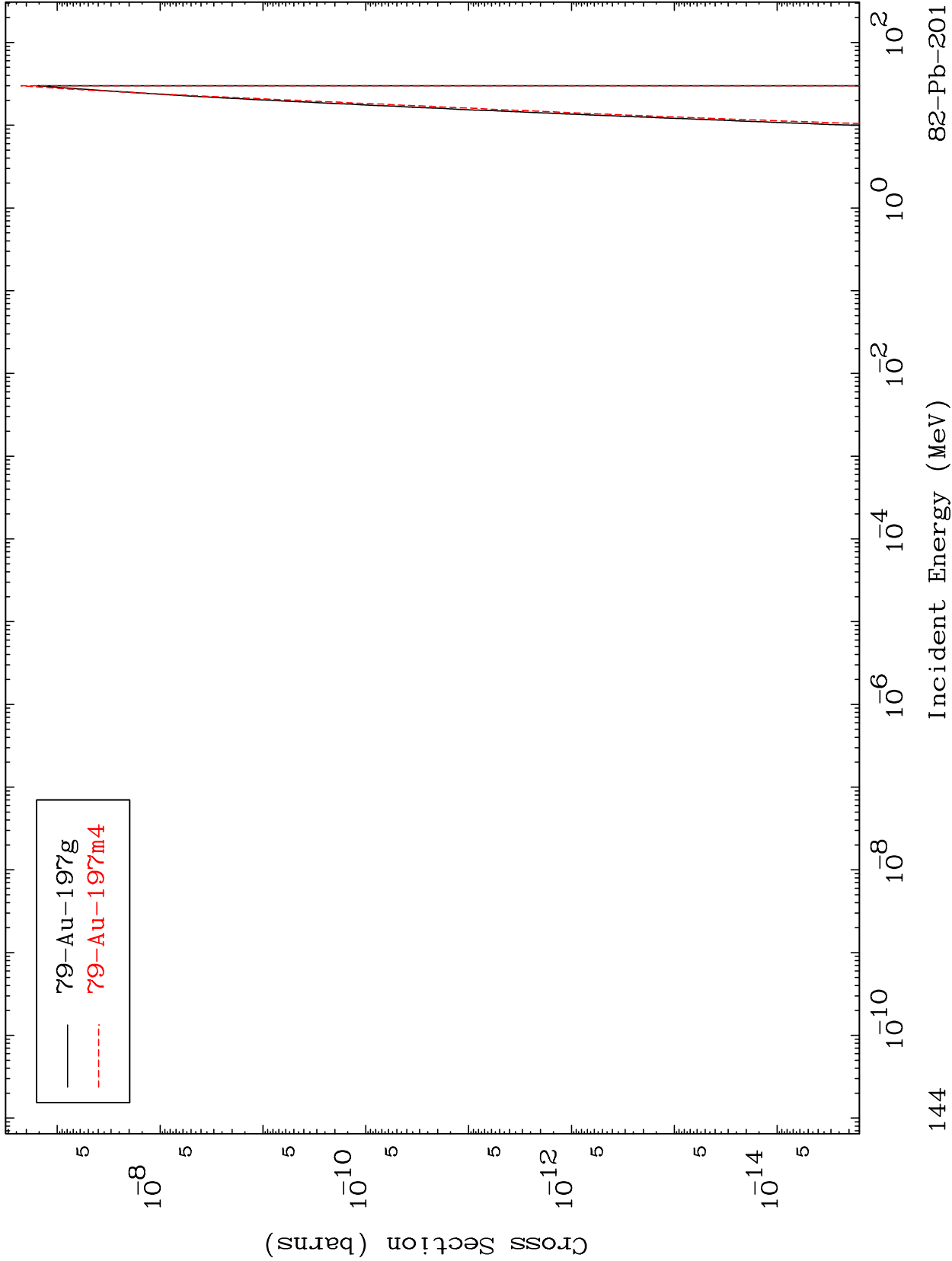
82-Pb-201

MAT 8216

(n,p) α

82-Pb-201

Radionuclide Production Cross Section

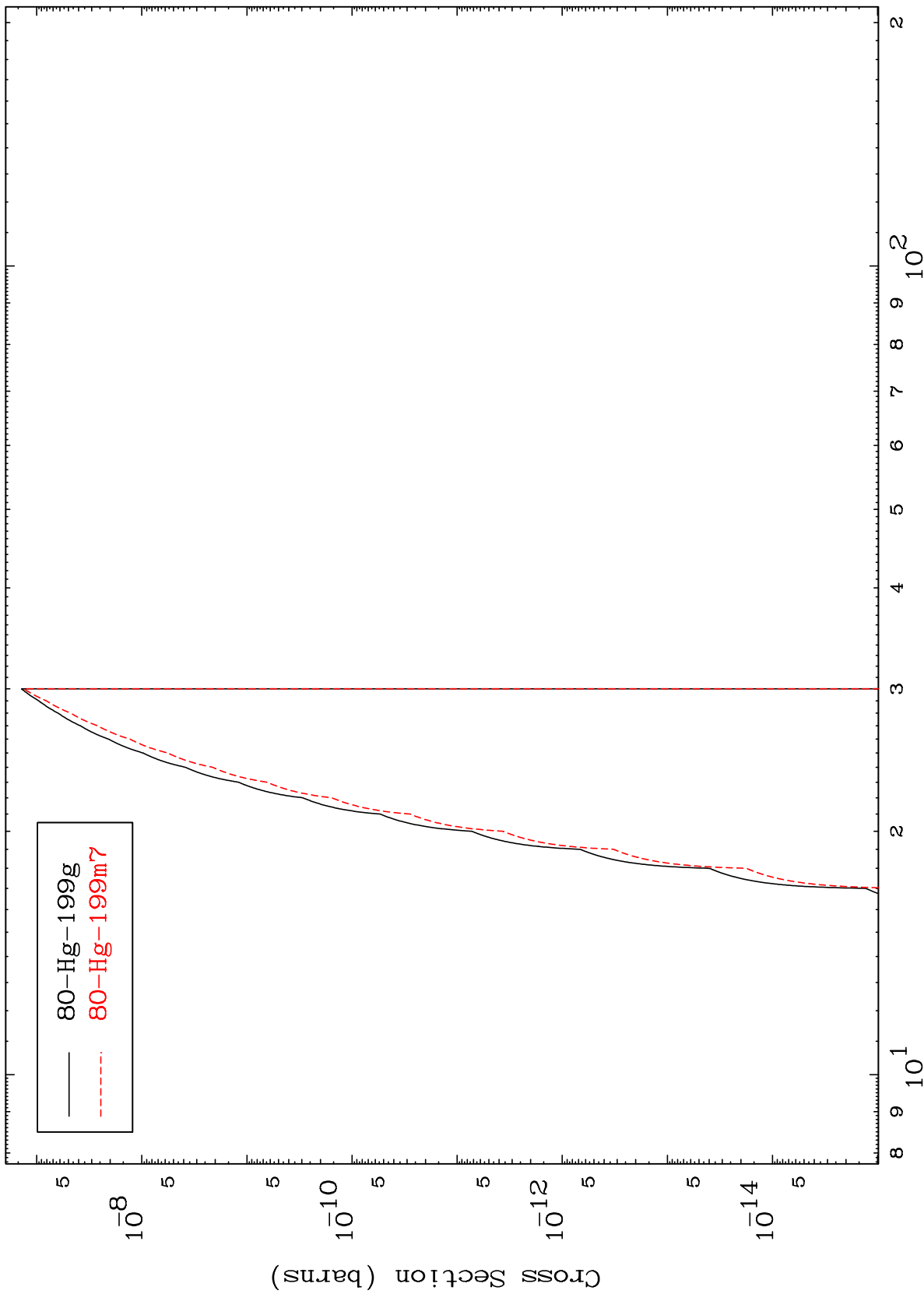


MAT 8216

(n,p) d

82-Pb-201

Radionuclide Production Cross Section



145

Incident Energy (MeV)

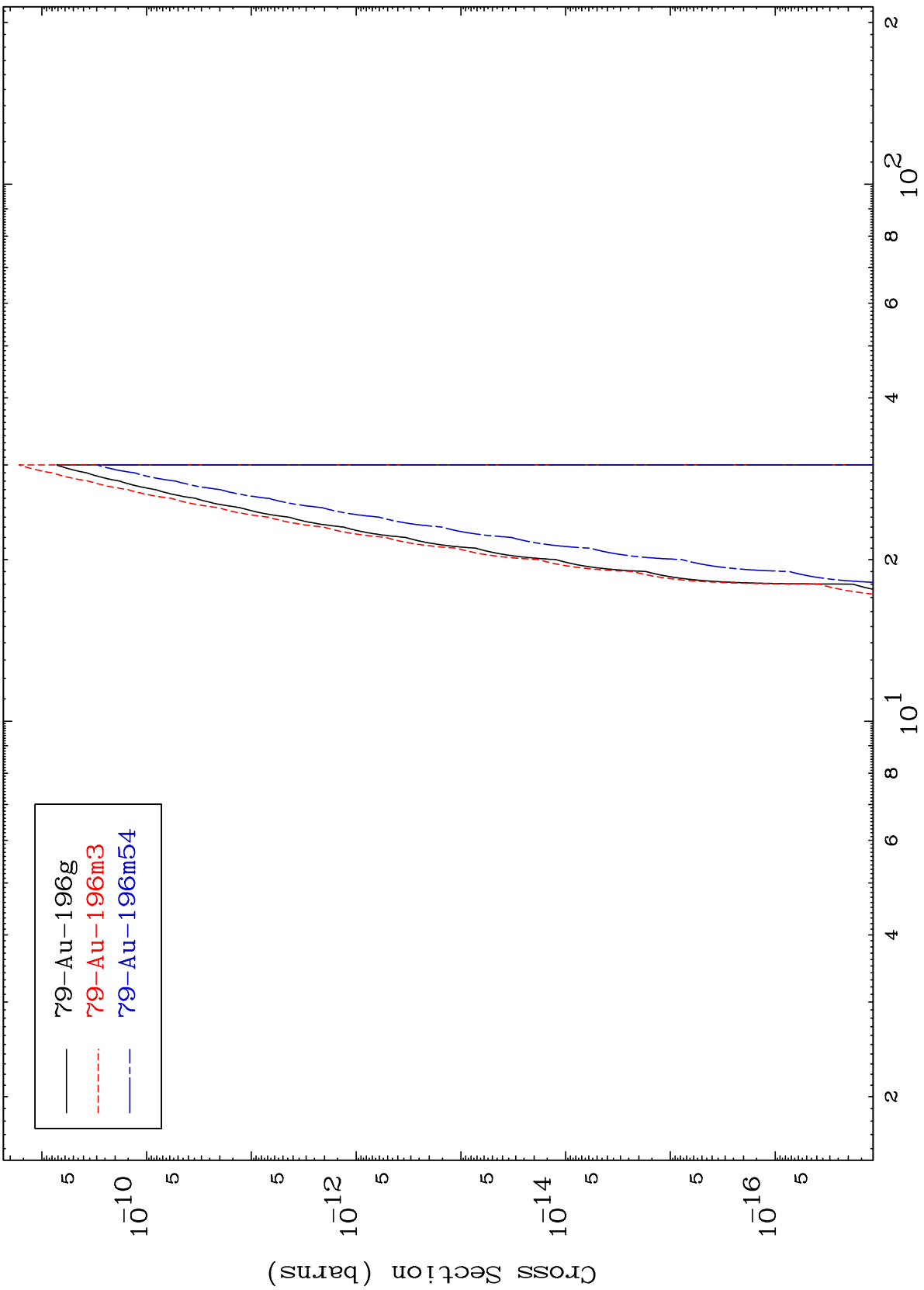
82-Pb-201

MAT 8216

(n,d) α

82-Pb-201

Radionuclide Production Cross Section



79-Au-196g
79-Au-196m3
79-Au-196m54

146

Incident Energy (MeV)

82-Pb-201