

Program EVALPLOT  
(Version 2017-1)

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](mailto:redcullen1@comcast.net)

Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

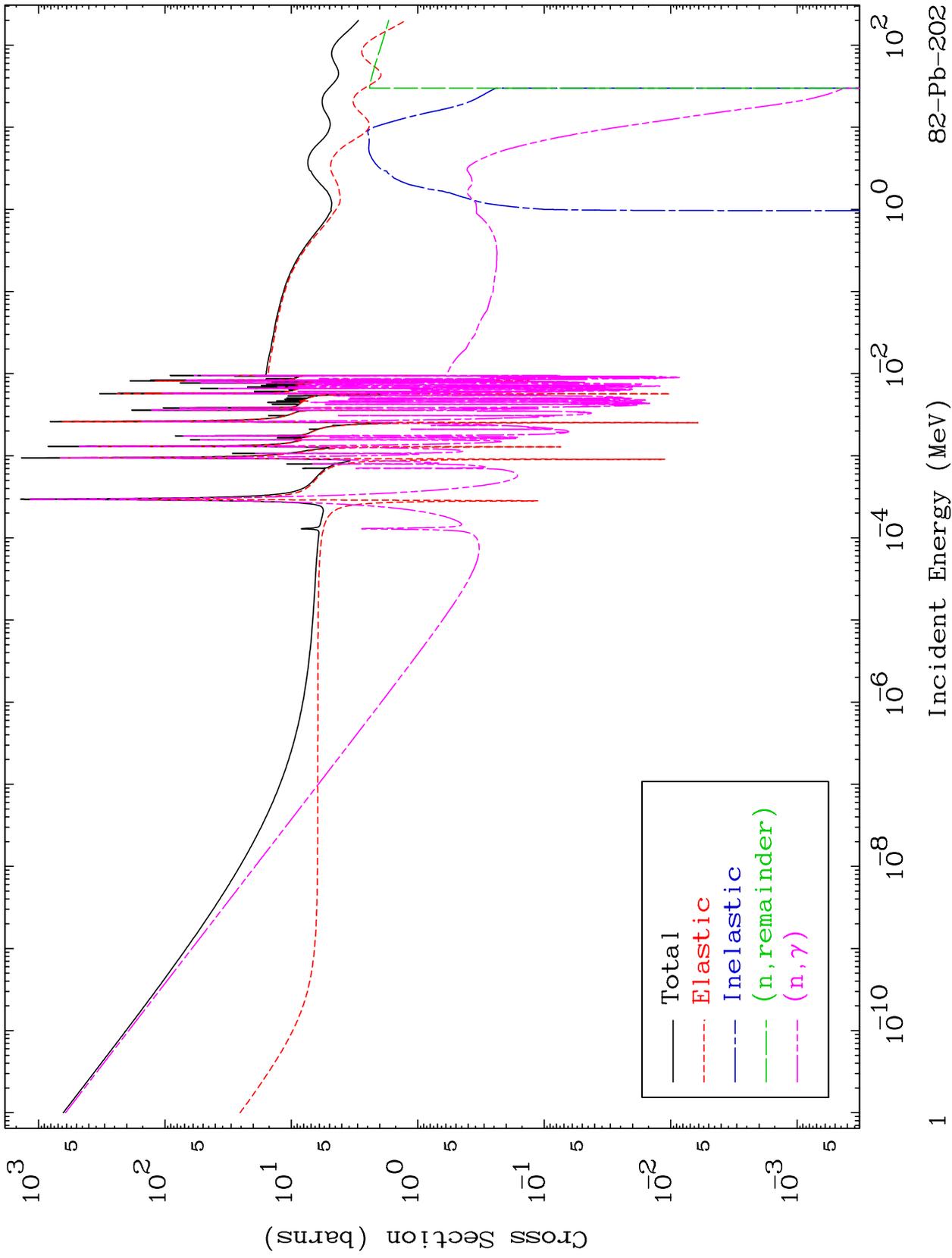
Press Mouse Button to Start

MAT 8219

Major

293 Kelvin Cross Sections

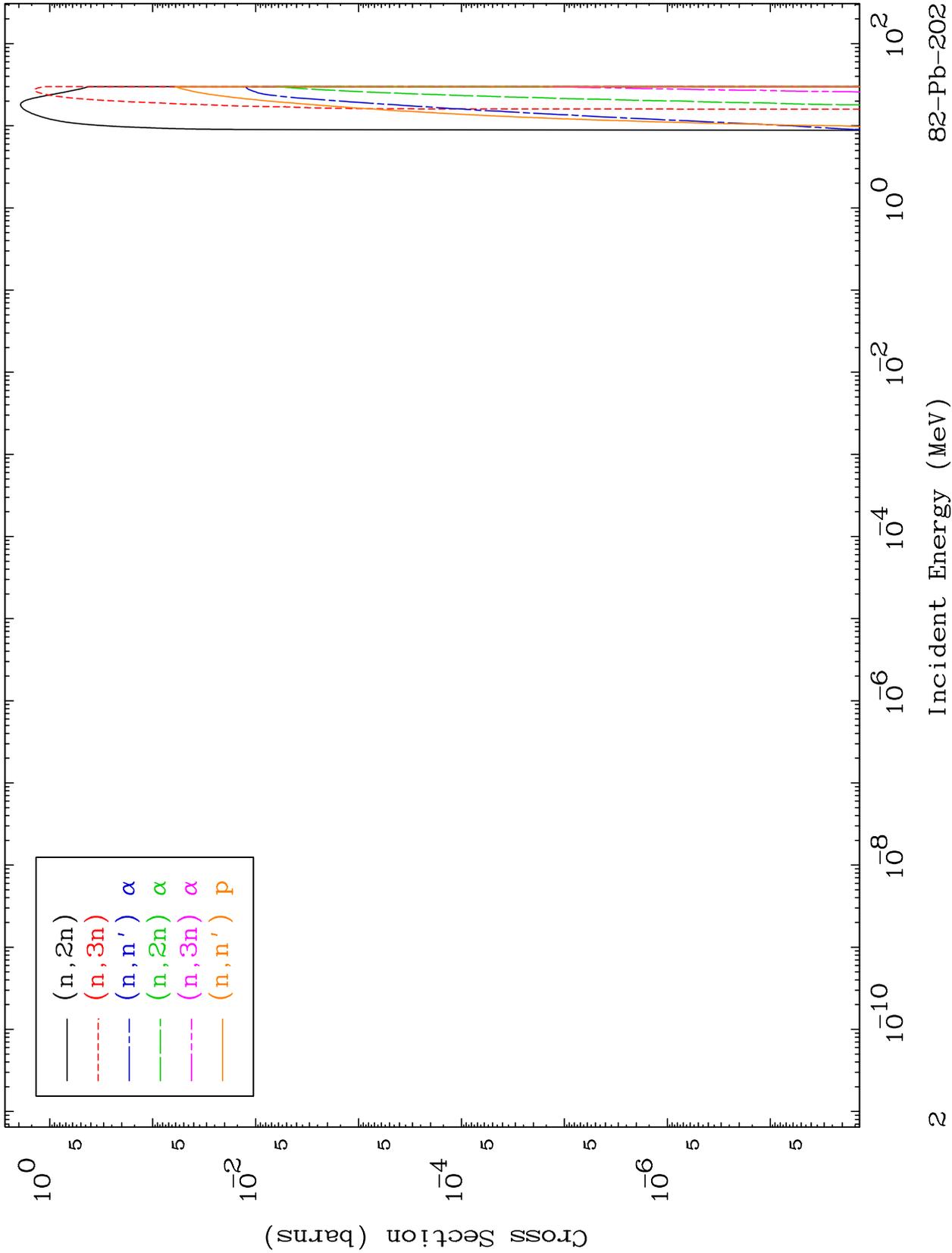
82-Pb-202

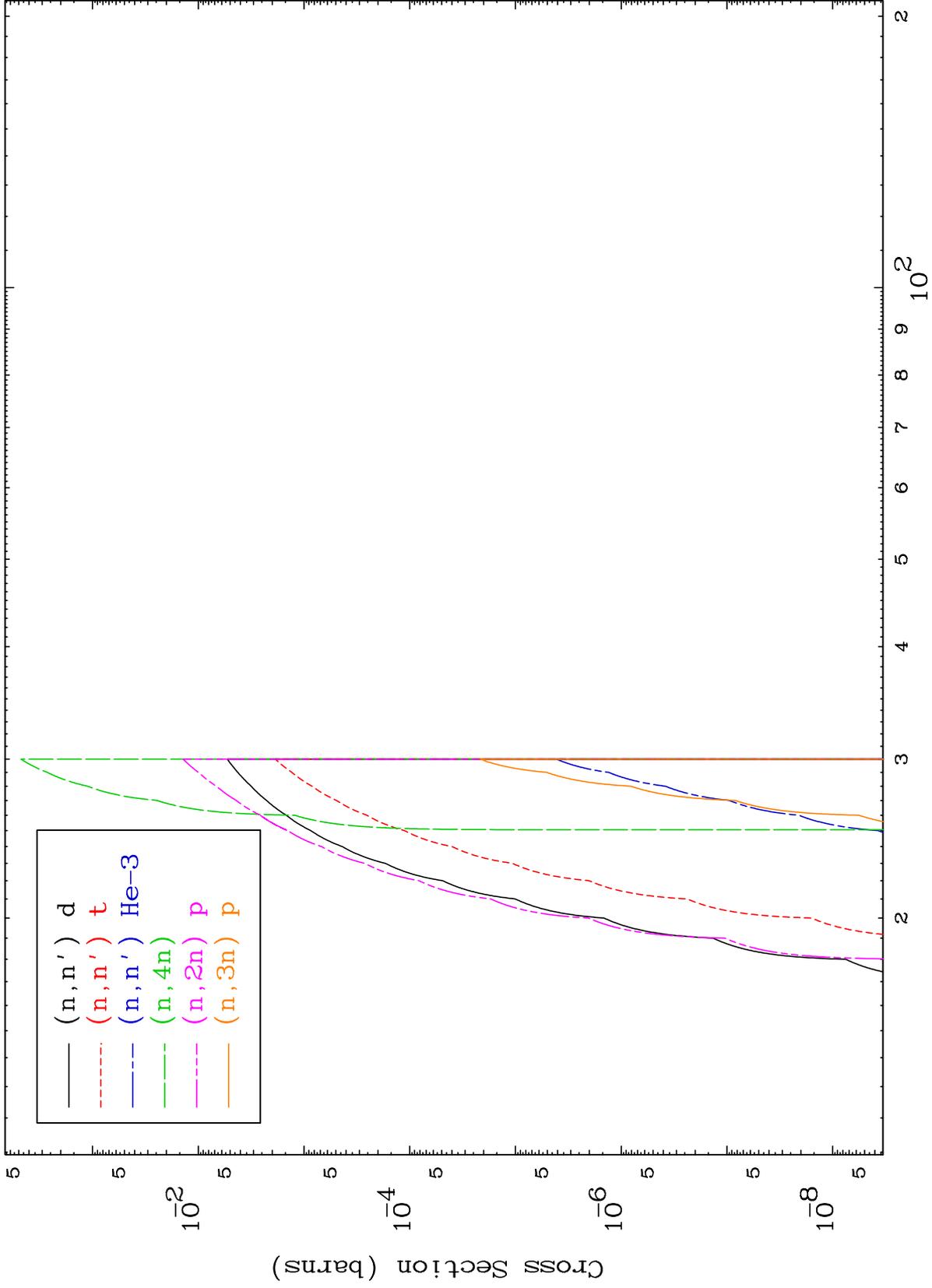


MAT 8219

Neutron Production  
293 Kelvin Cross Sections

82-Pb-202

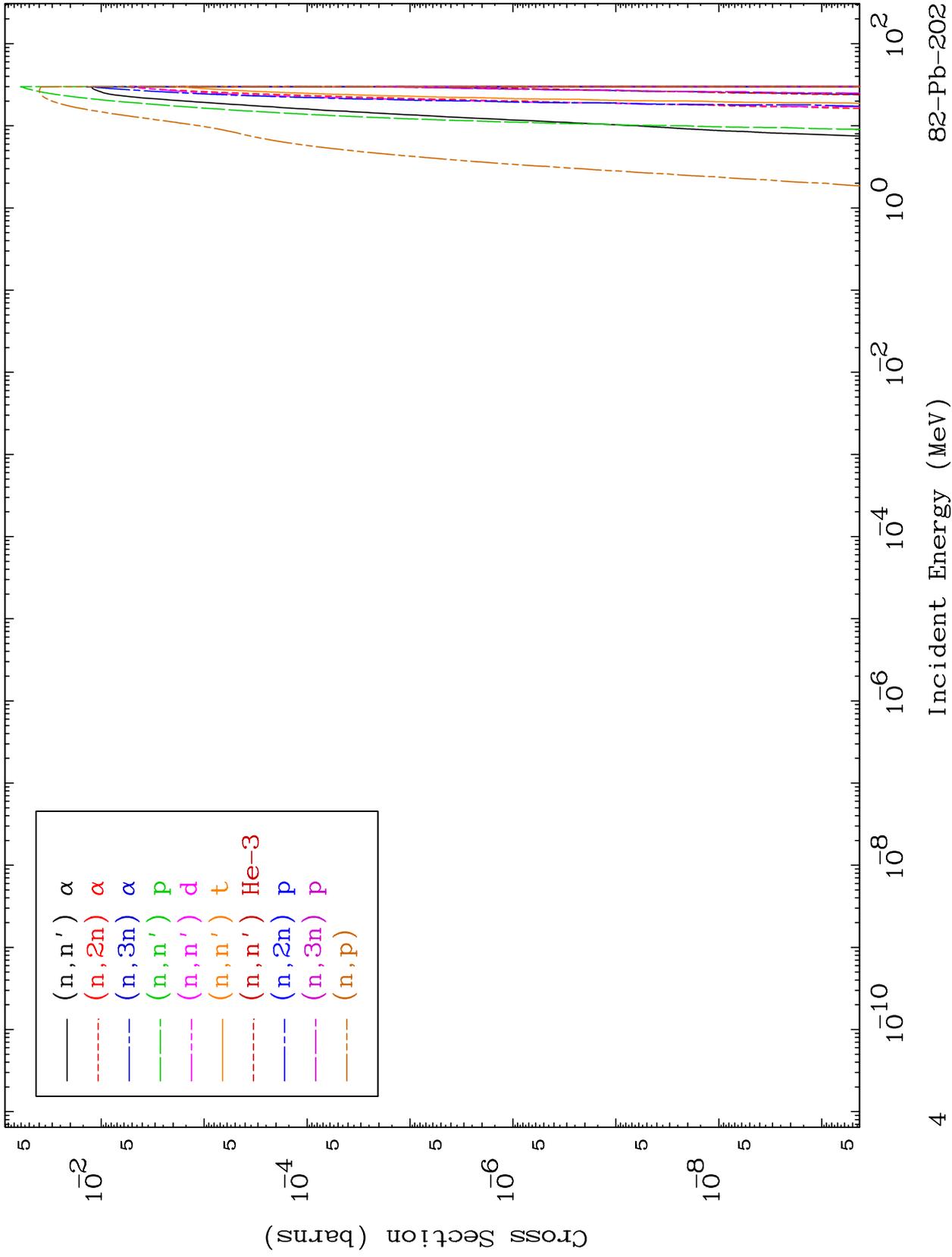




MAT 8219

Charged Particle  
293 Kelvin Cross Sections

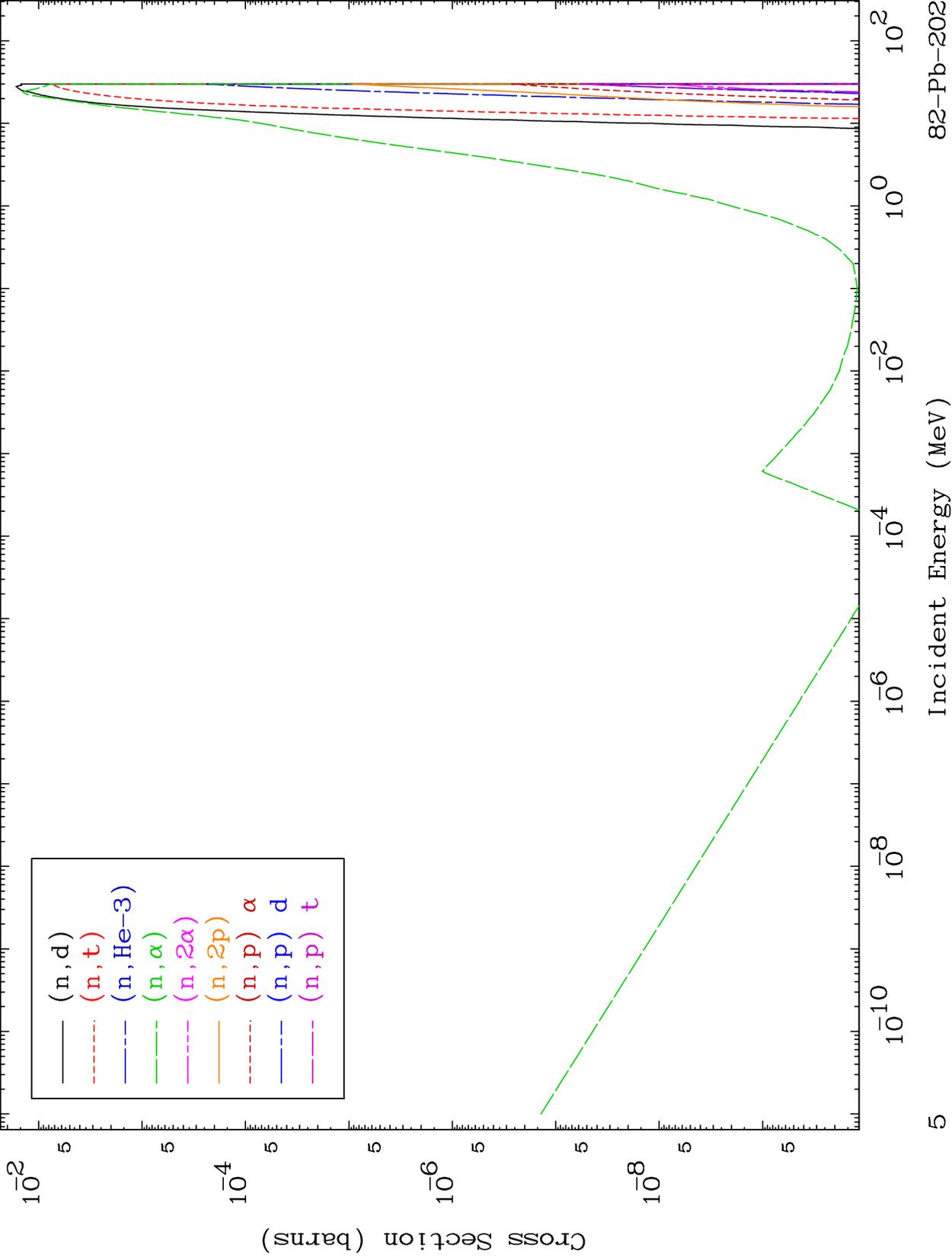
82-Pb-202



MAT 8219

Charged Particle  
293 Kelvin Cross Sections

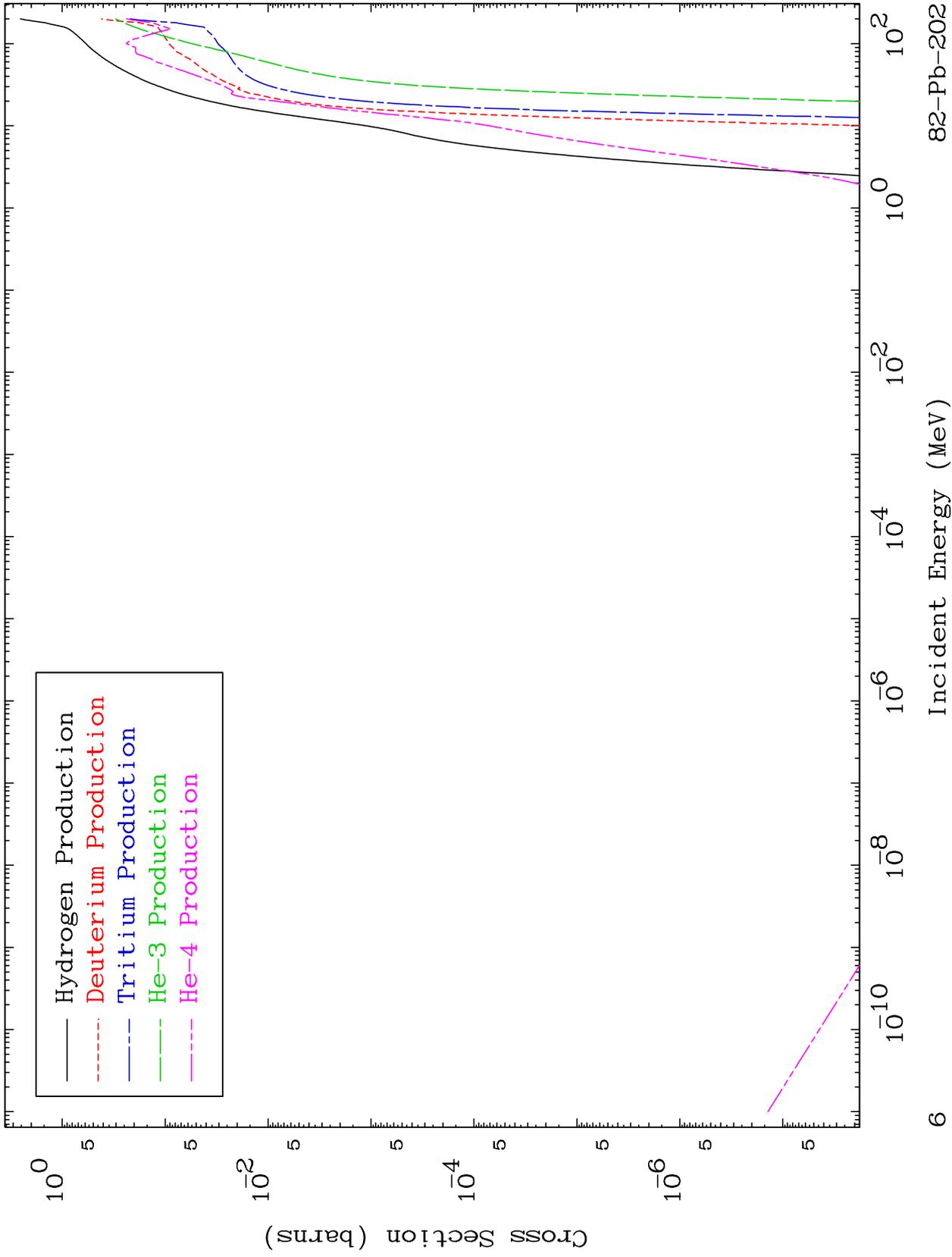
82-Pb-202



MAT 8219

Particle Production  
293 Kelvin Cross Sections

82-Pb-202

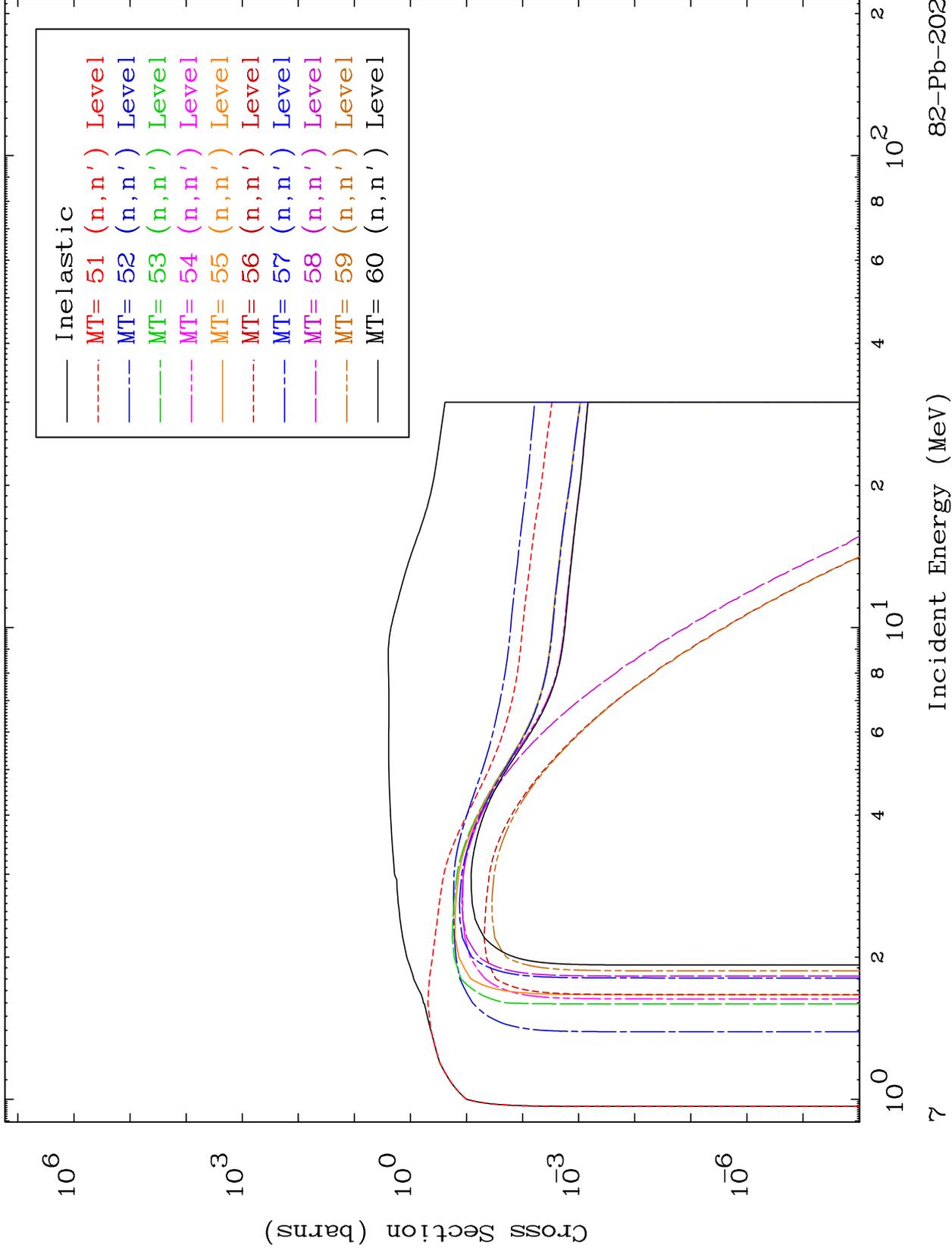


MAT 8219

(n,n') Level

82-Pb-202

293 Kelvin Cross Sections



Incident Energy (MeV)

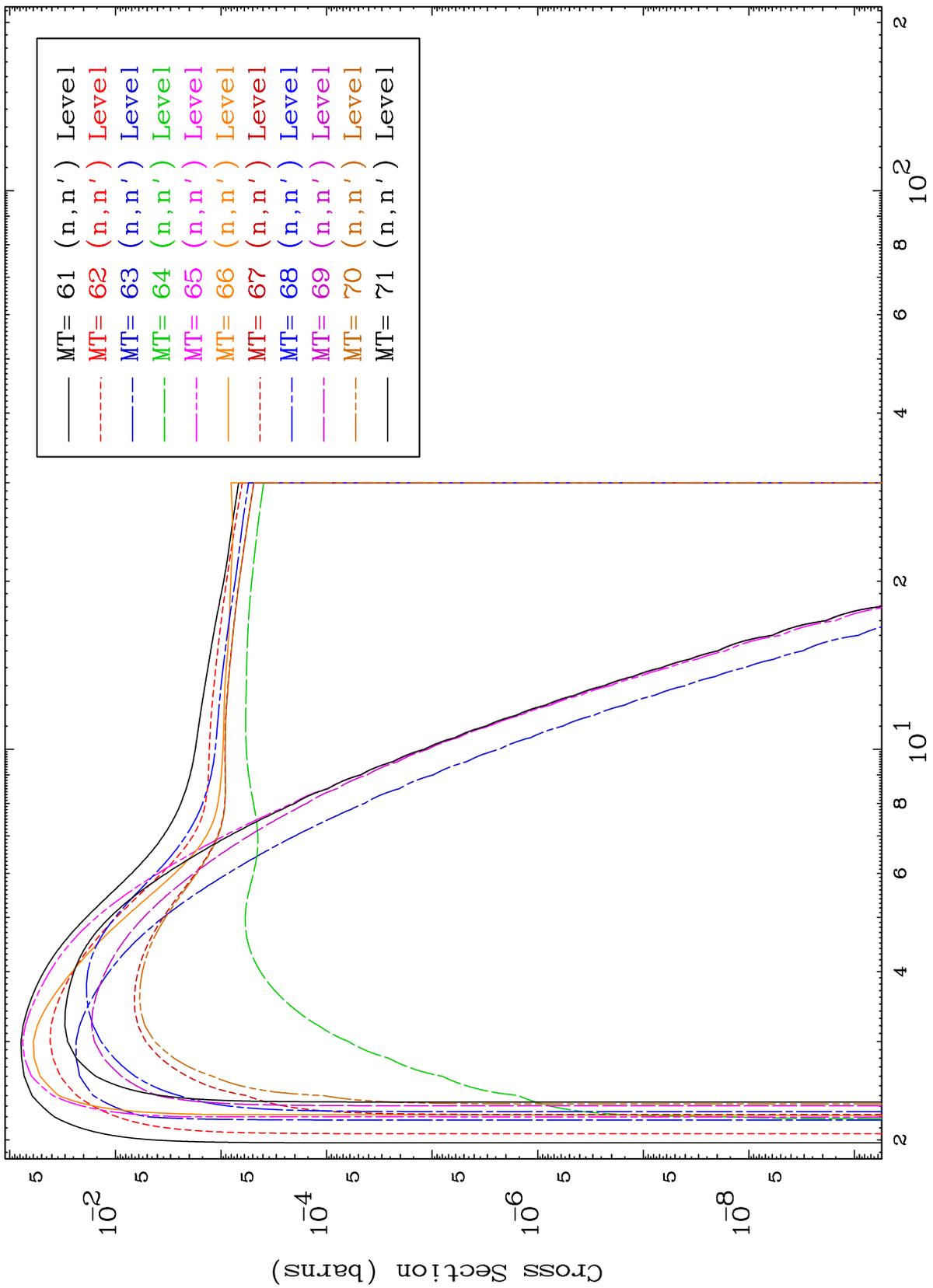
82-Pb-202

MAT 8219

(n,n') Level

82-Pb-202

293 Kelvin Cross Sections

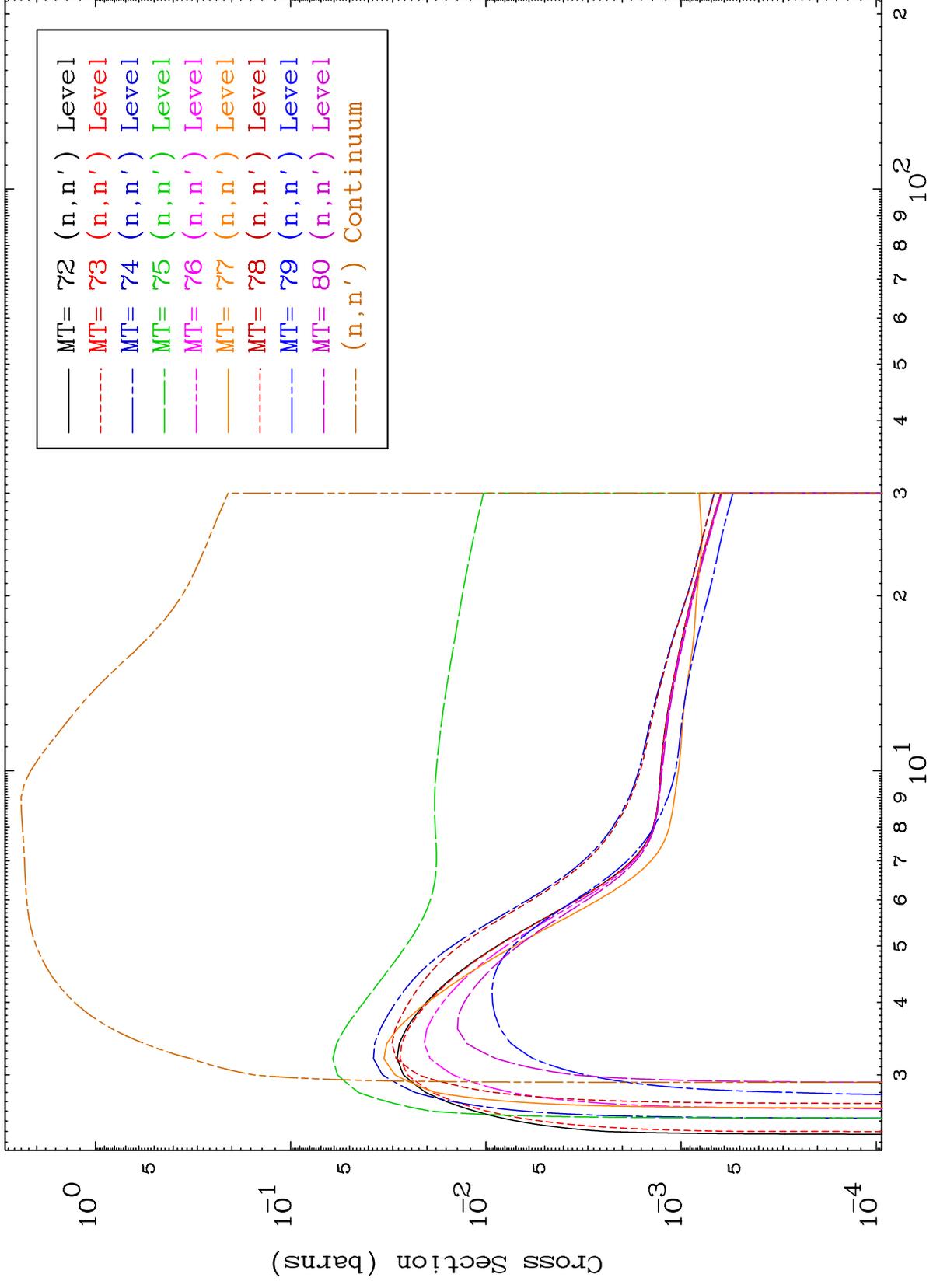


8

Incident Energy (MeV)

82-Pb-202

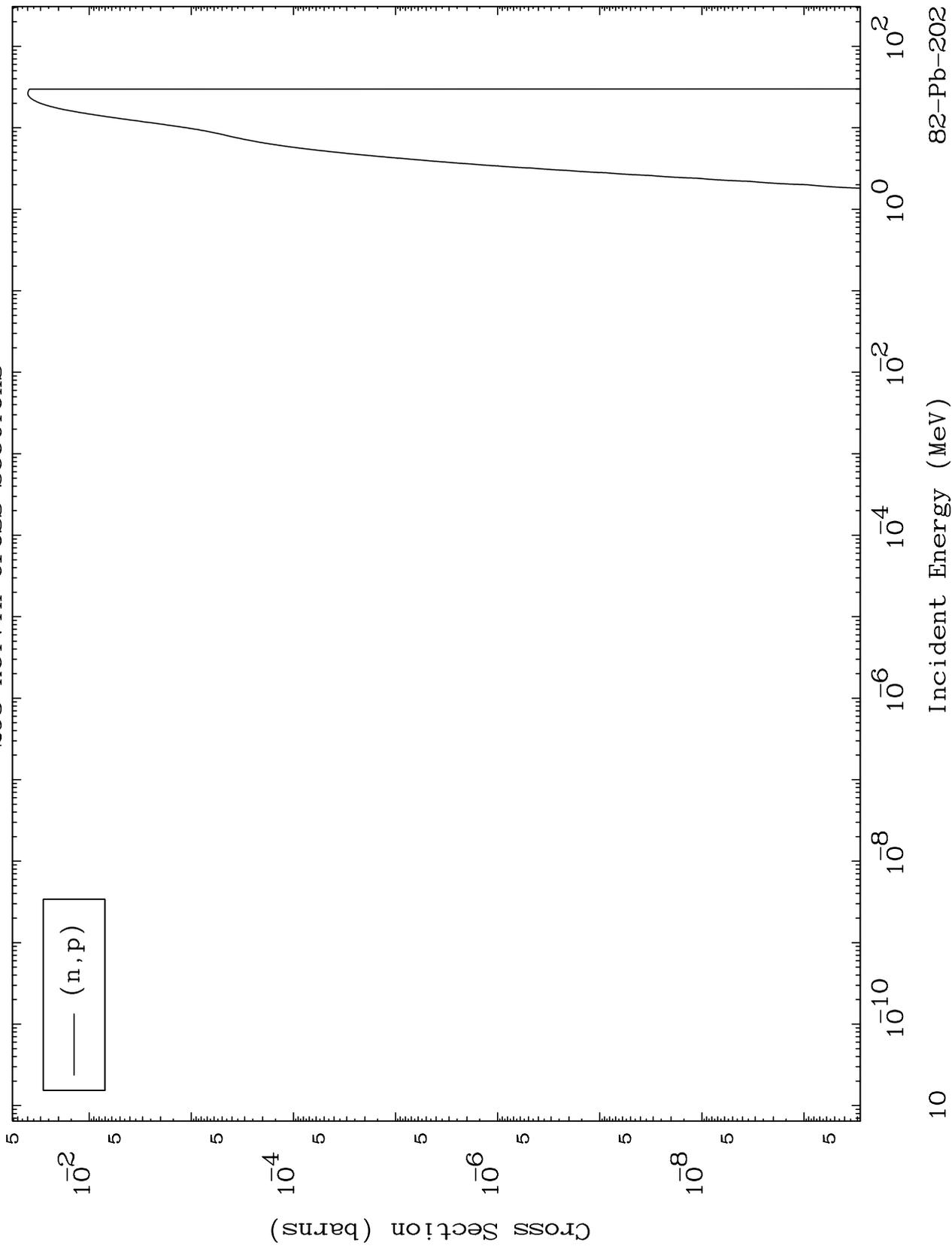
293 Kelvin Cross Sections



MAT 8219

(n,p) Levels  
293 Kelvin Cross Sections

82-Pb-202



10

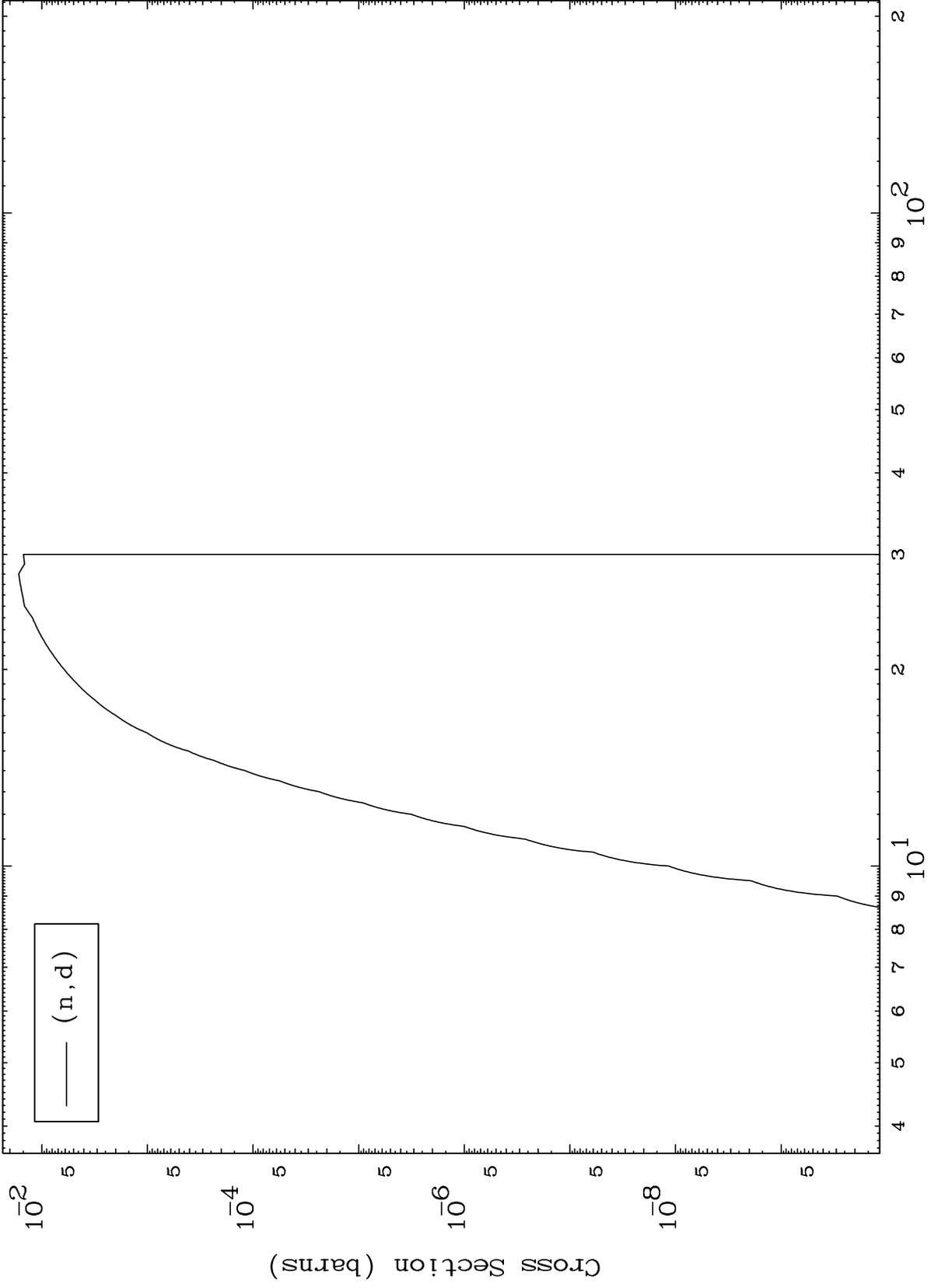
Incident Energy (MeV)

82-Pb-202

MAT 8219

(n,d) Levels  
293 Kelvin Cross Sections

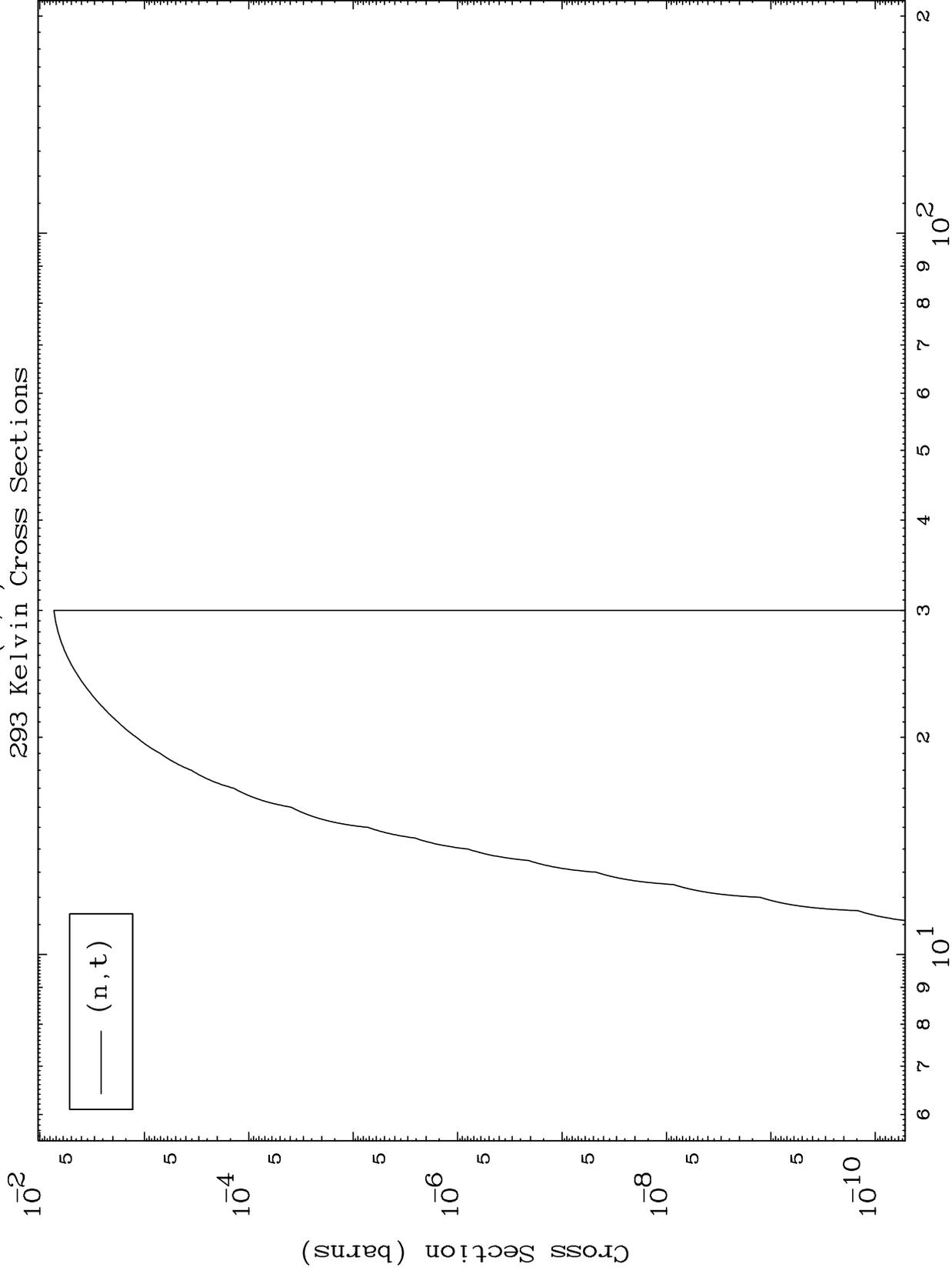
82-Pb-202



MAT 8219

(n,t) Levels  
293 Kelvin Cross Sections

82-Pb-202



12

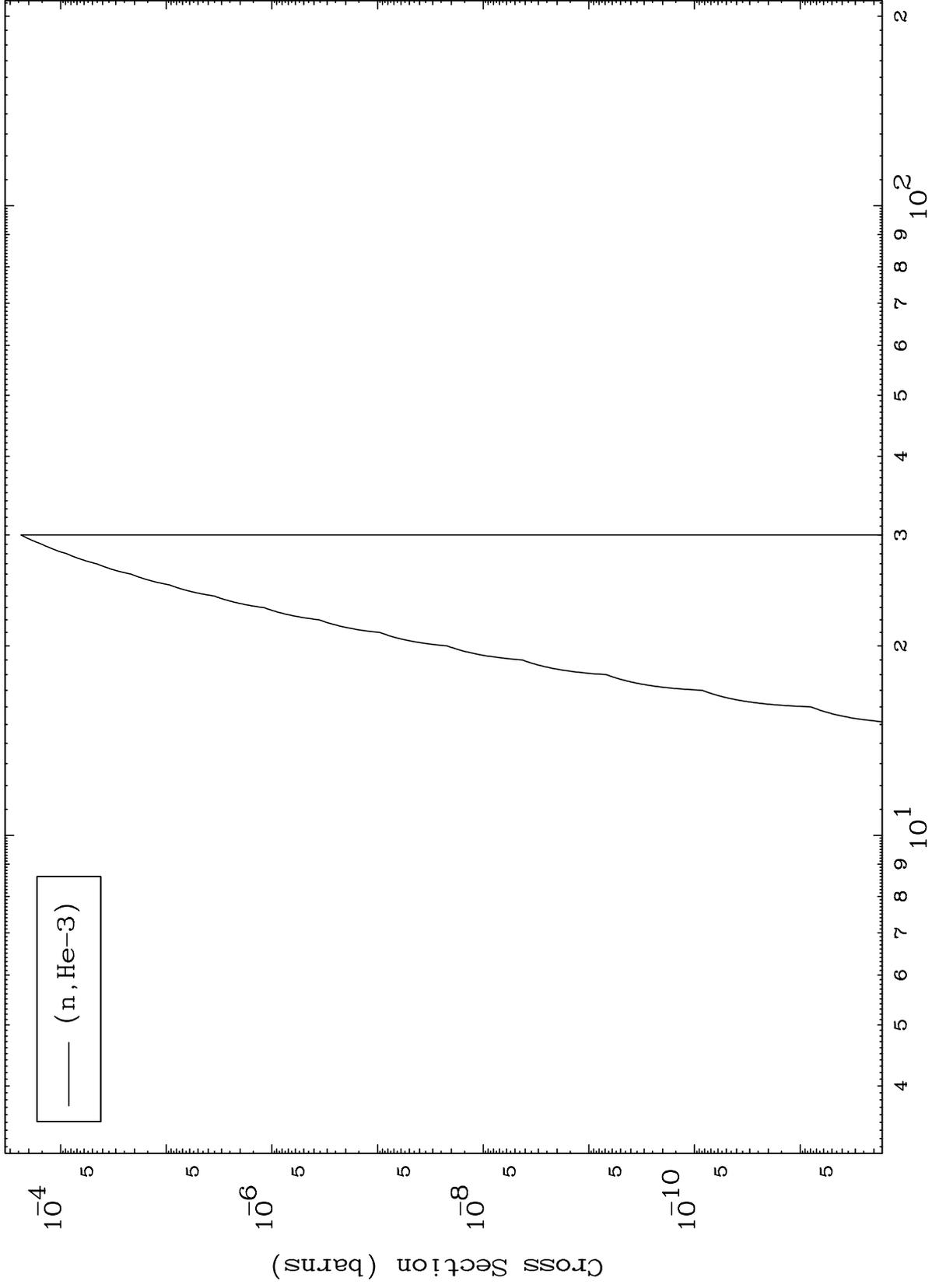
Incident Energy (MeV)

82-Pb-202

MAT 8219

(n,He3) Levels  
293 Kelvin Cross Sections

82-Pb-202



13

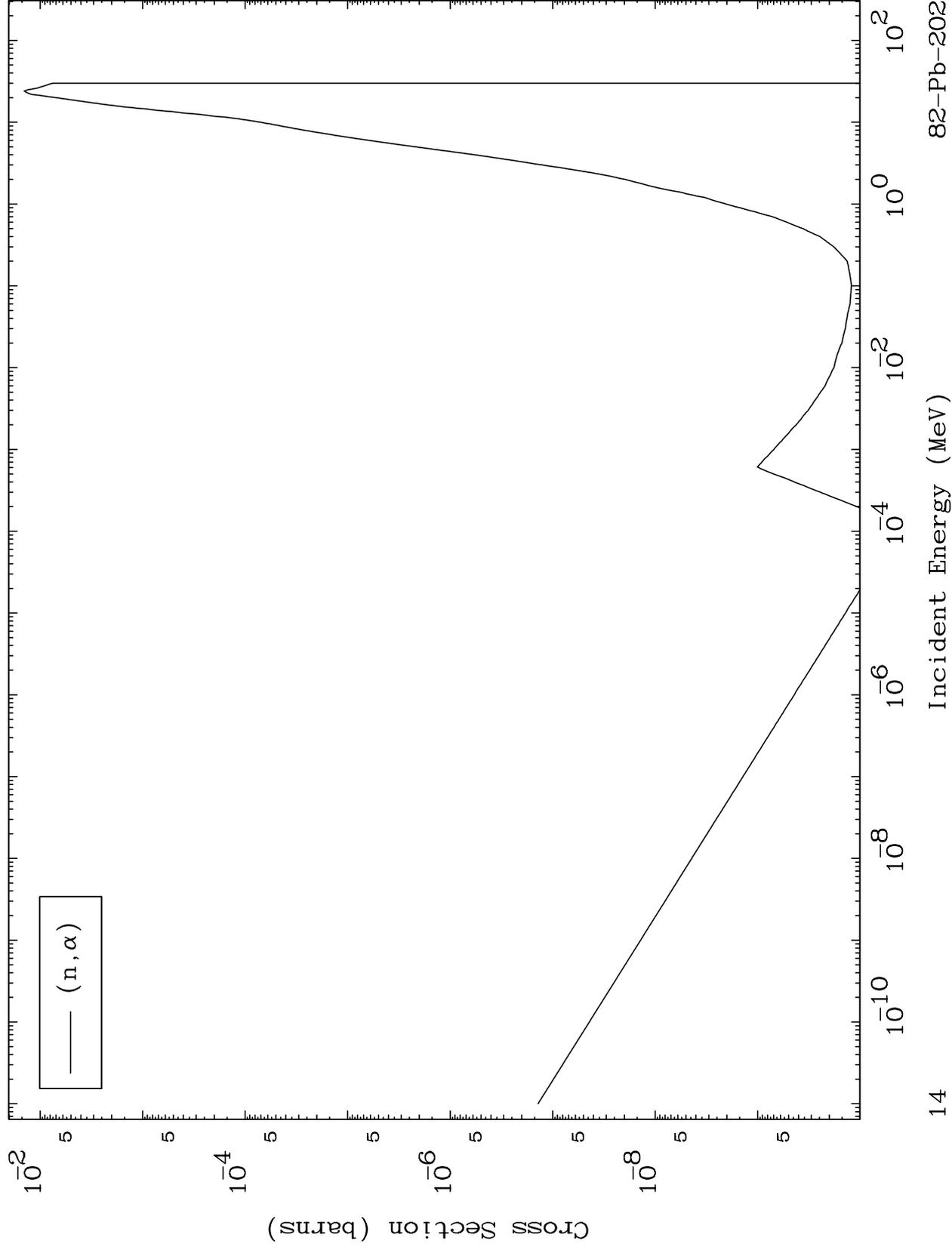
Incident Energy (MeV)

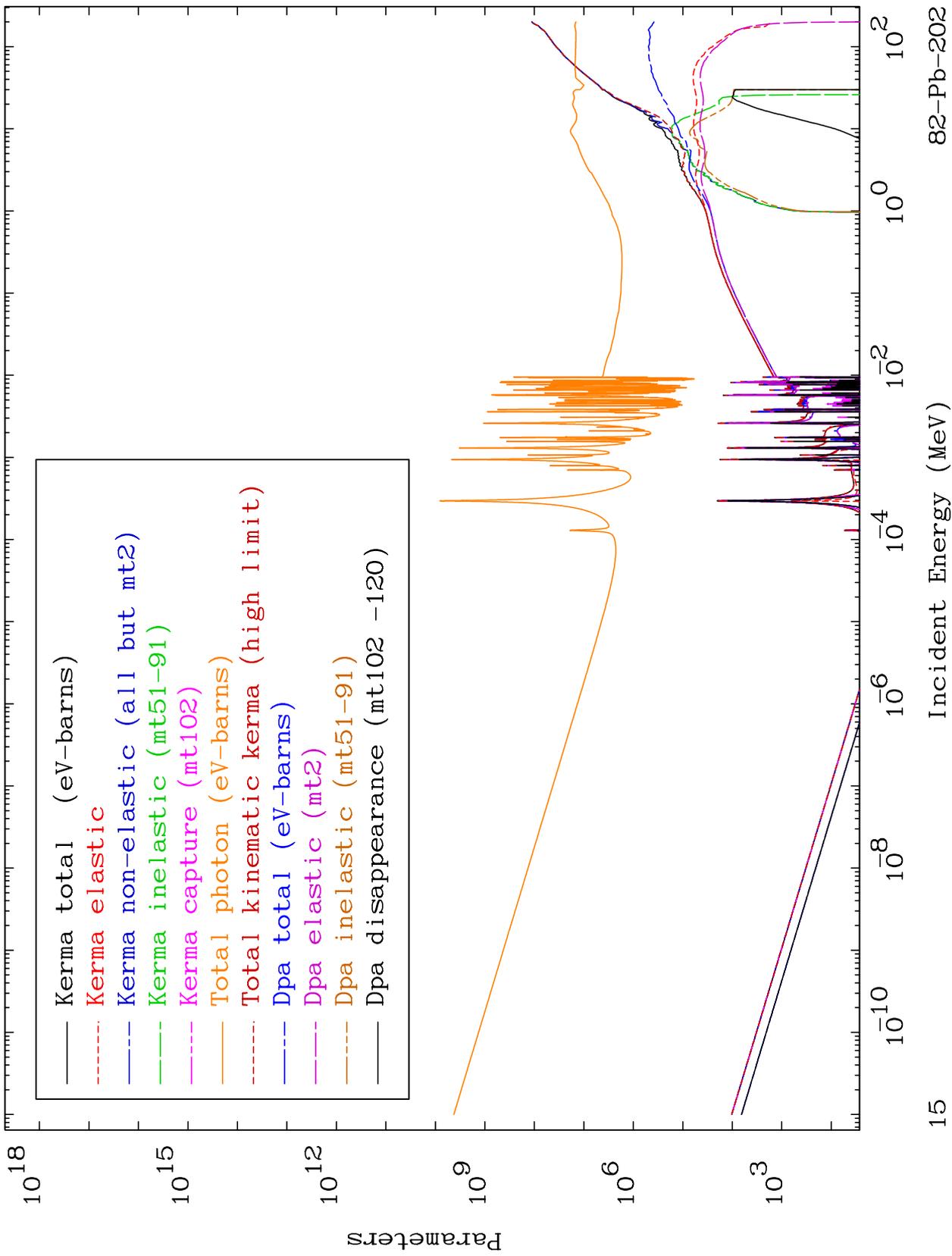
82-Pb-202

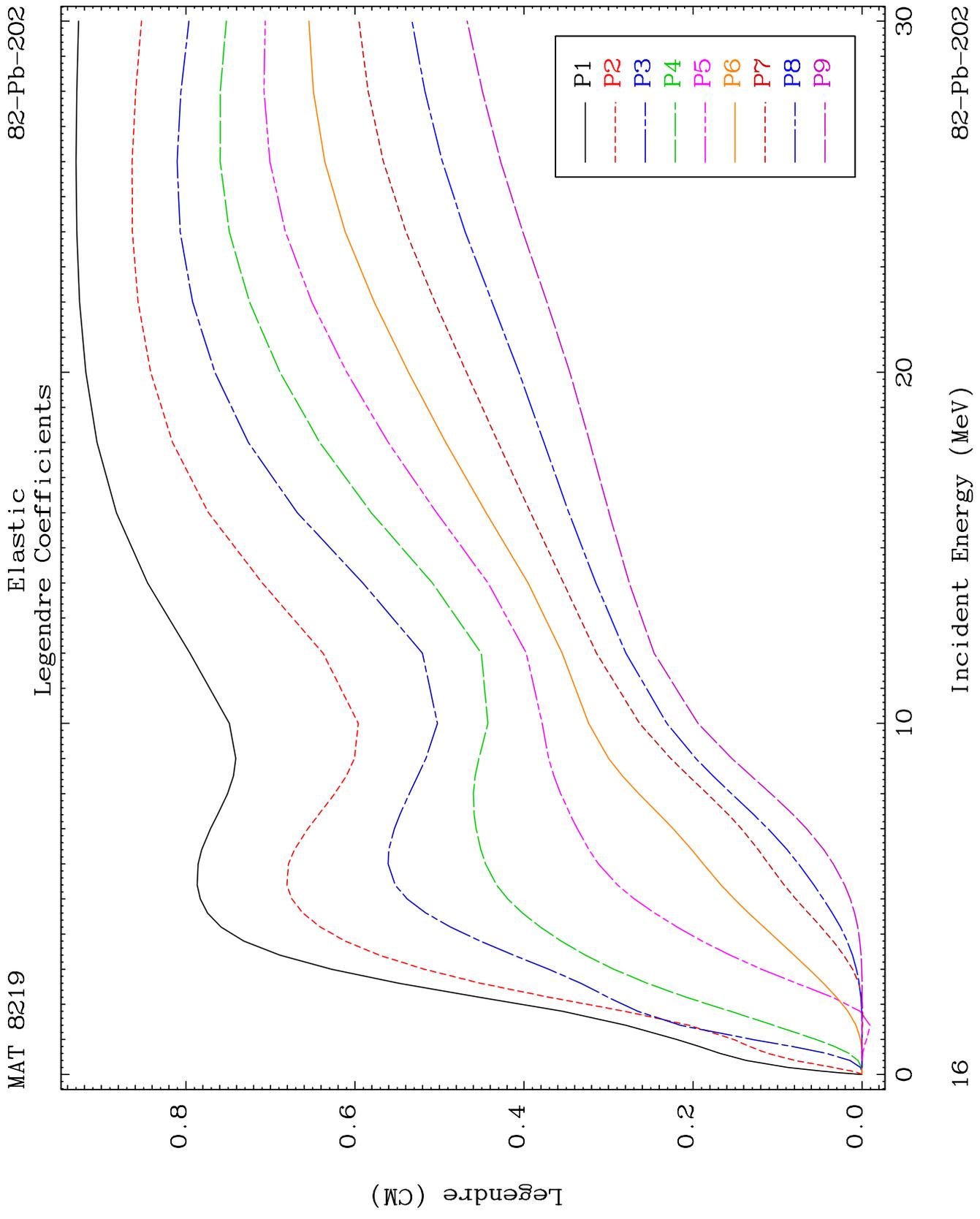
MAT 8219

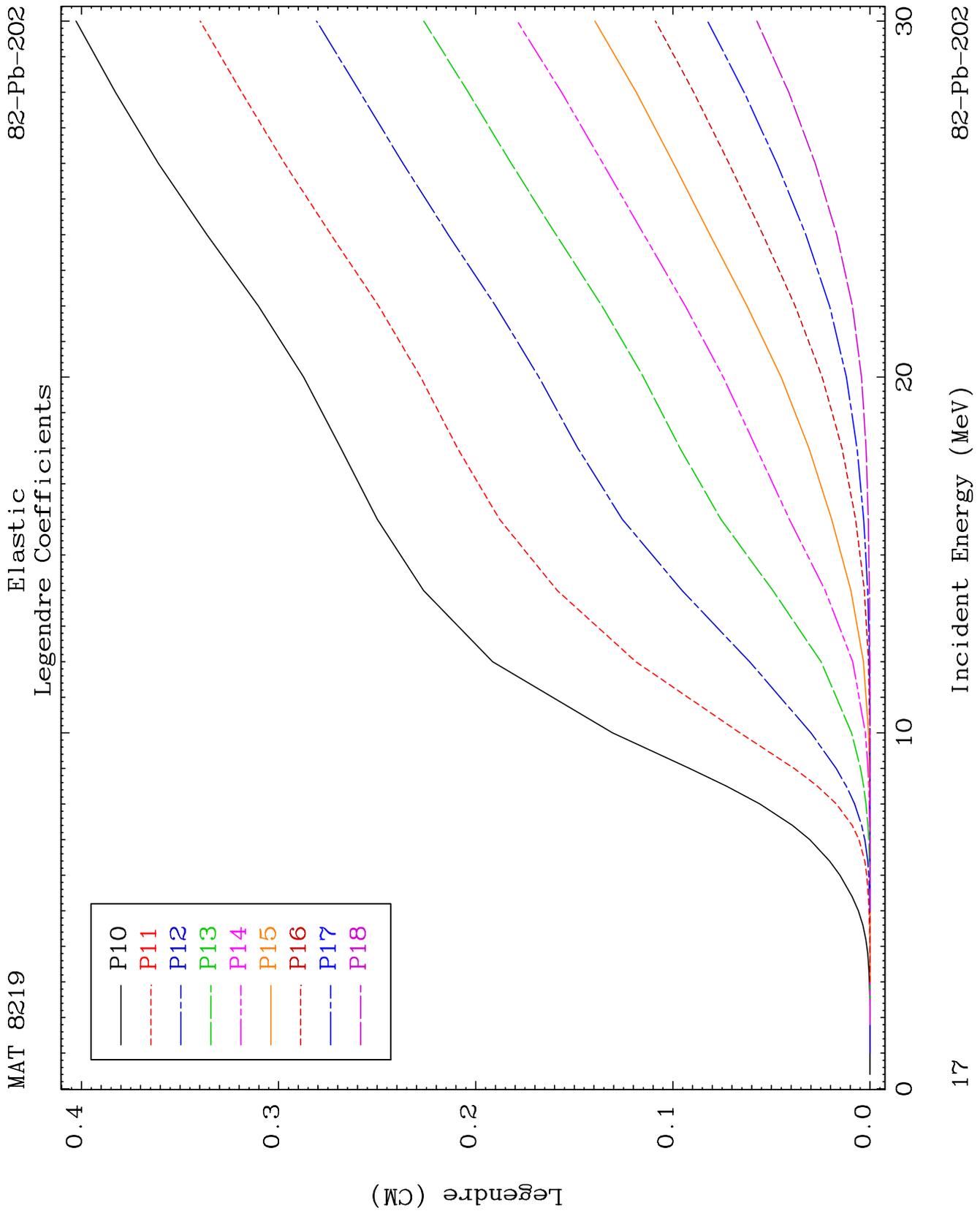
(n,  $\alpha$ ) Levels  
293 Kelvin Cross Sections

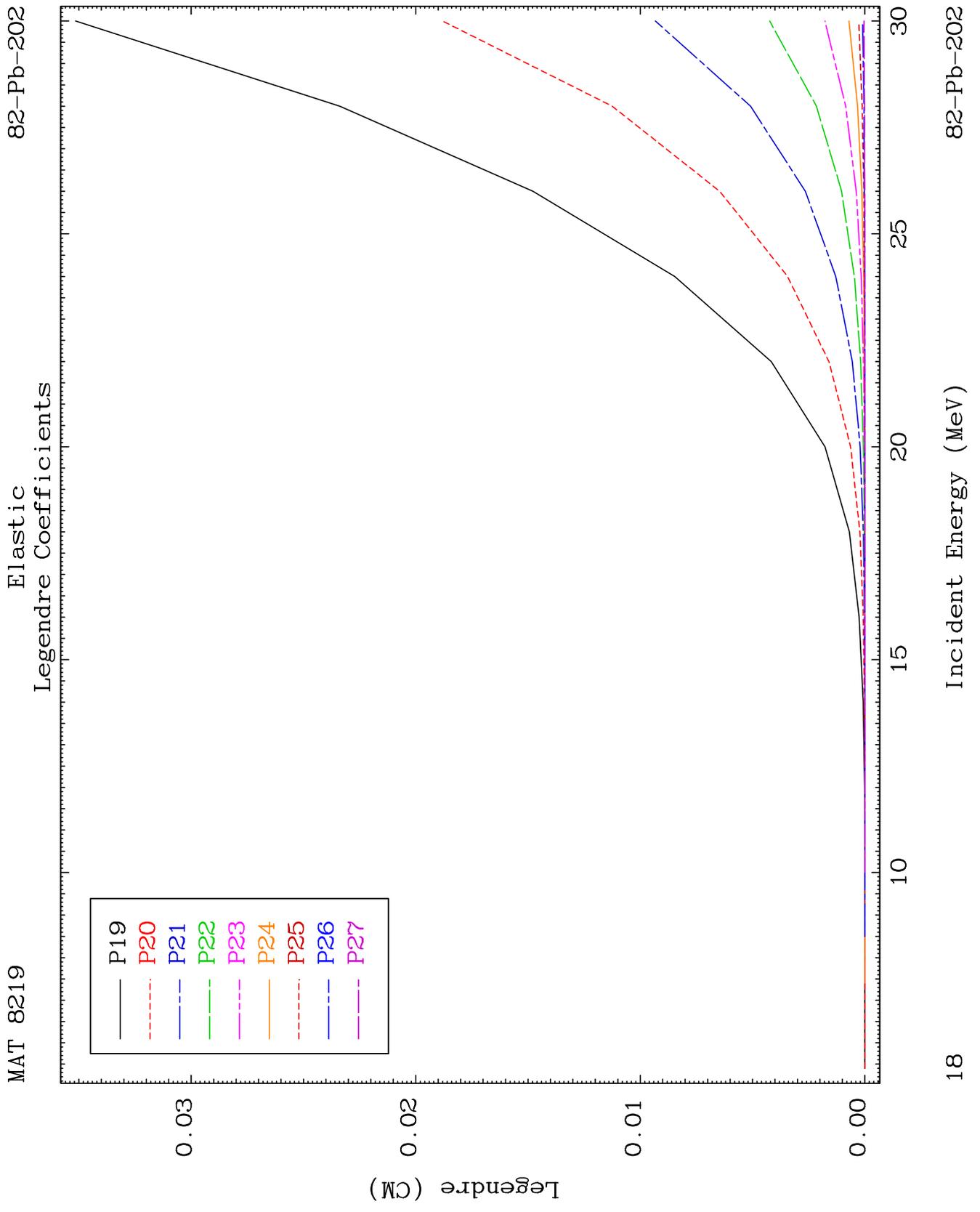
82-Pb-202







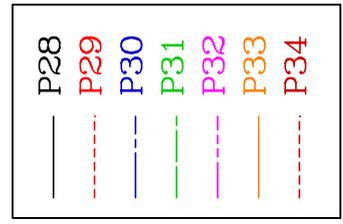




MAT 8219

Elastic Legendre Coefficients

82-Pb-202



$\times 10^{-5}$

Legendre (CM)

1.0

0.8

0.6

0.4

0.2

0.0

15

20

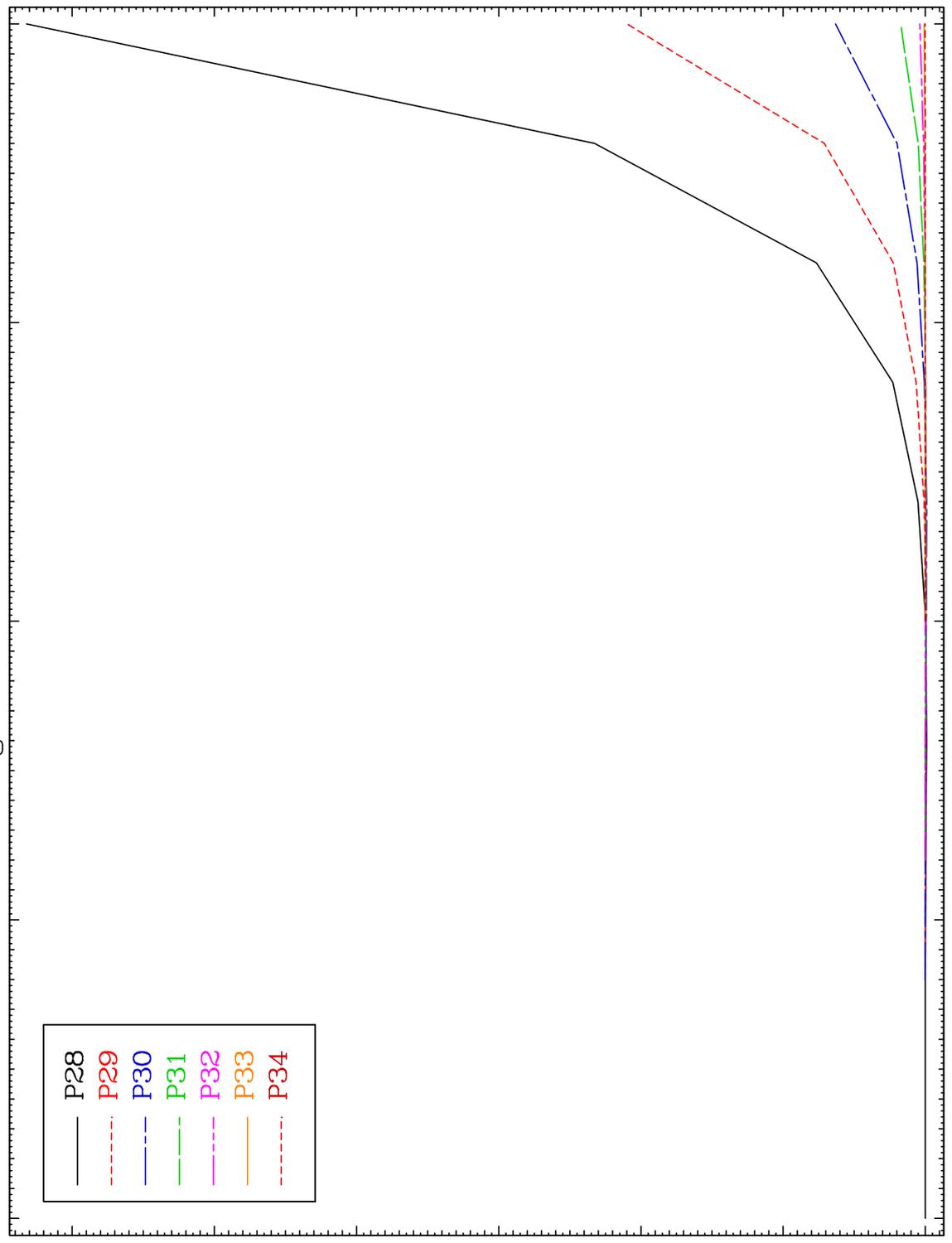
25

30

19

Incident Energy (MeV)

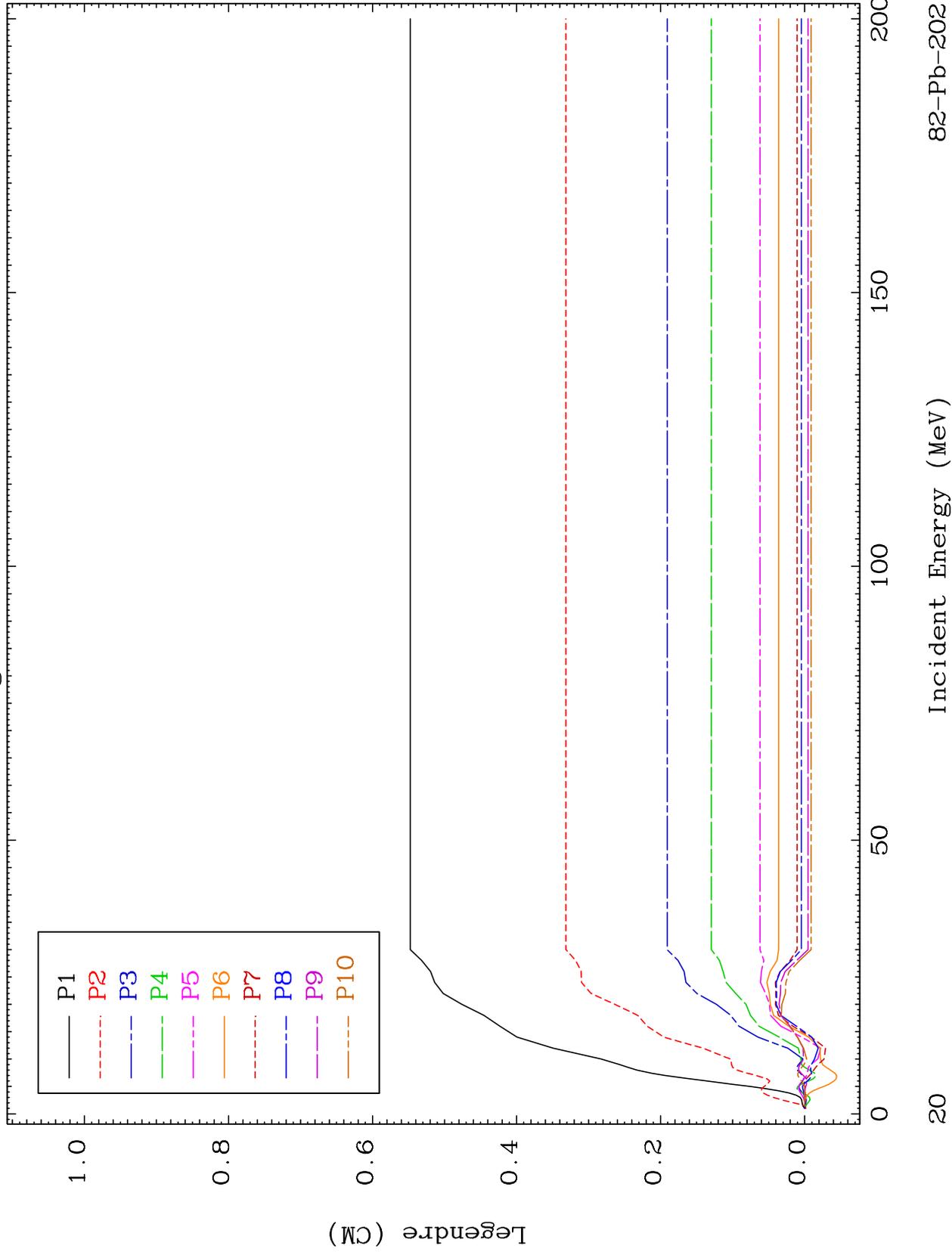
82-Pb-202



MAT 8219

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

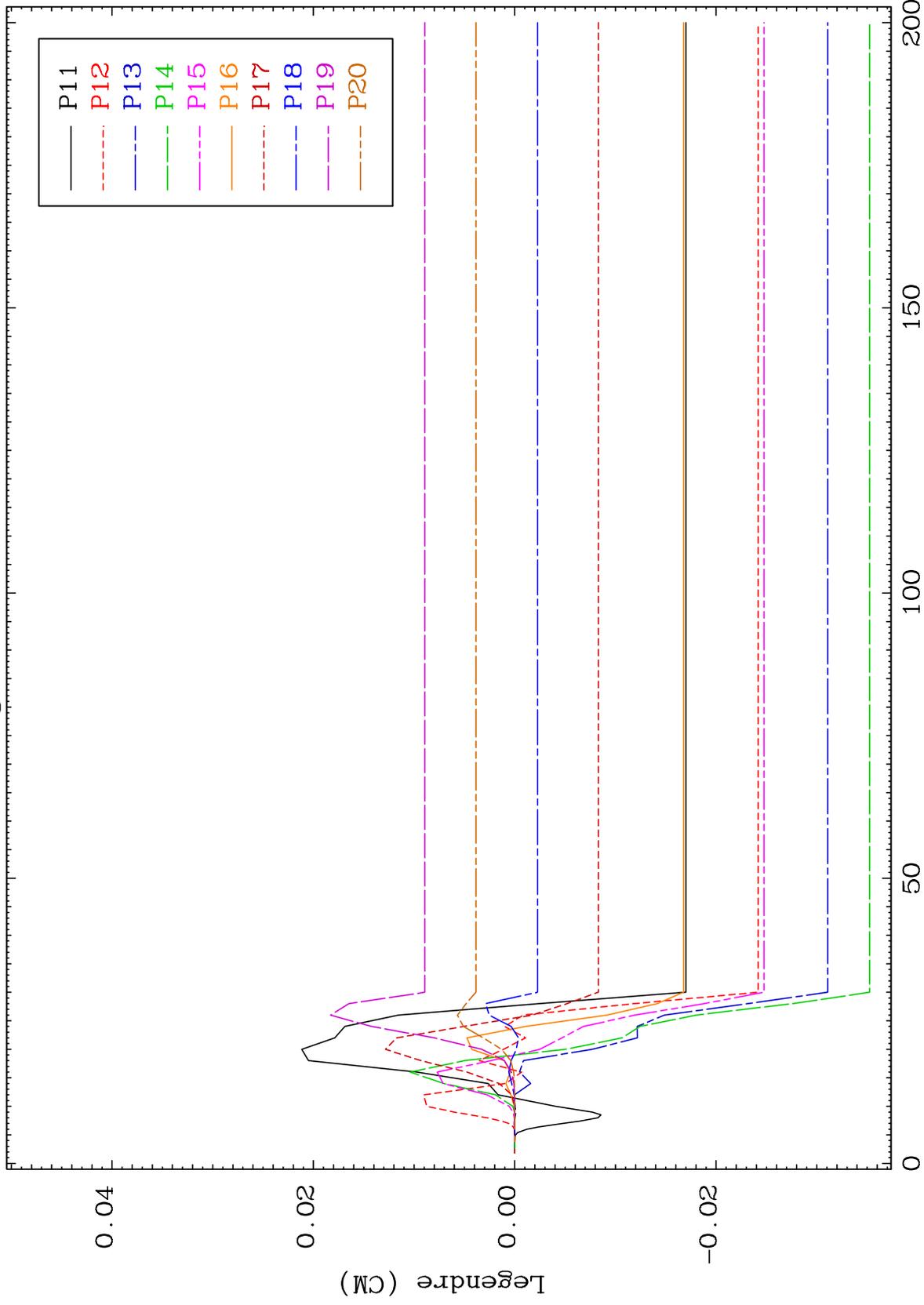
82-Pb-202



MAT 8219

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

82-Pb-202



21

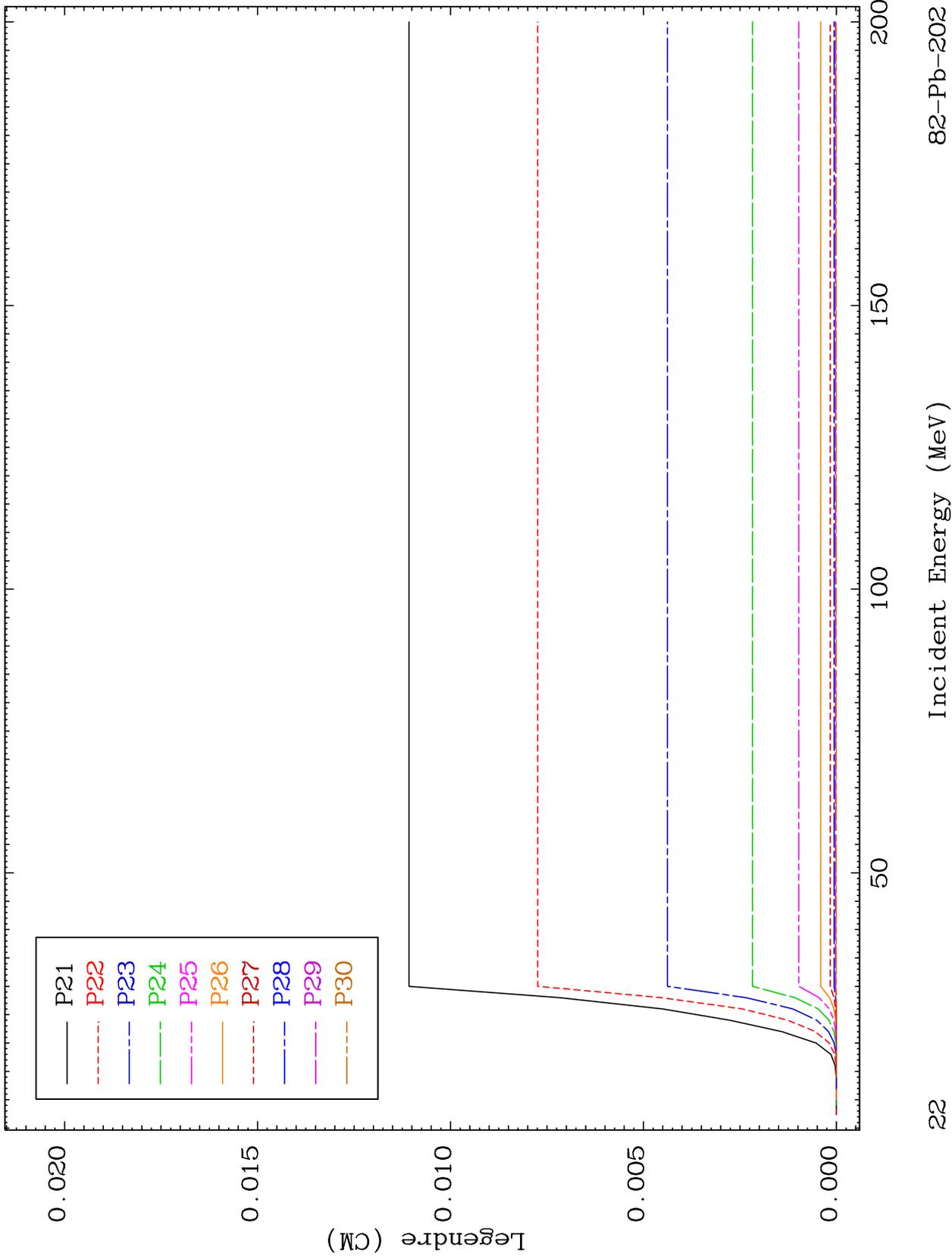
Incident Energy (MeV)

82-Pb-202

MAT 8219

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

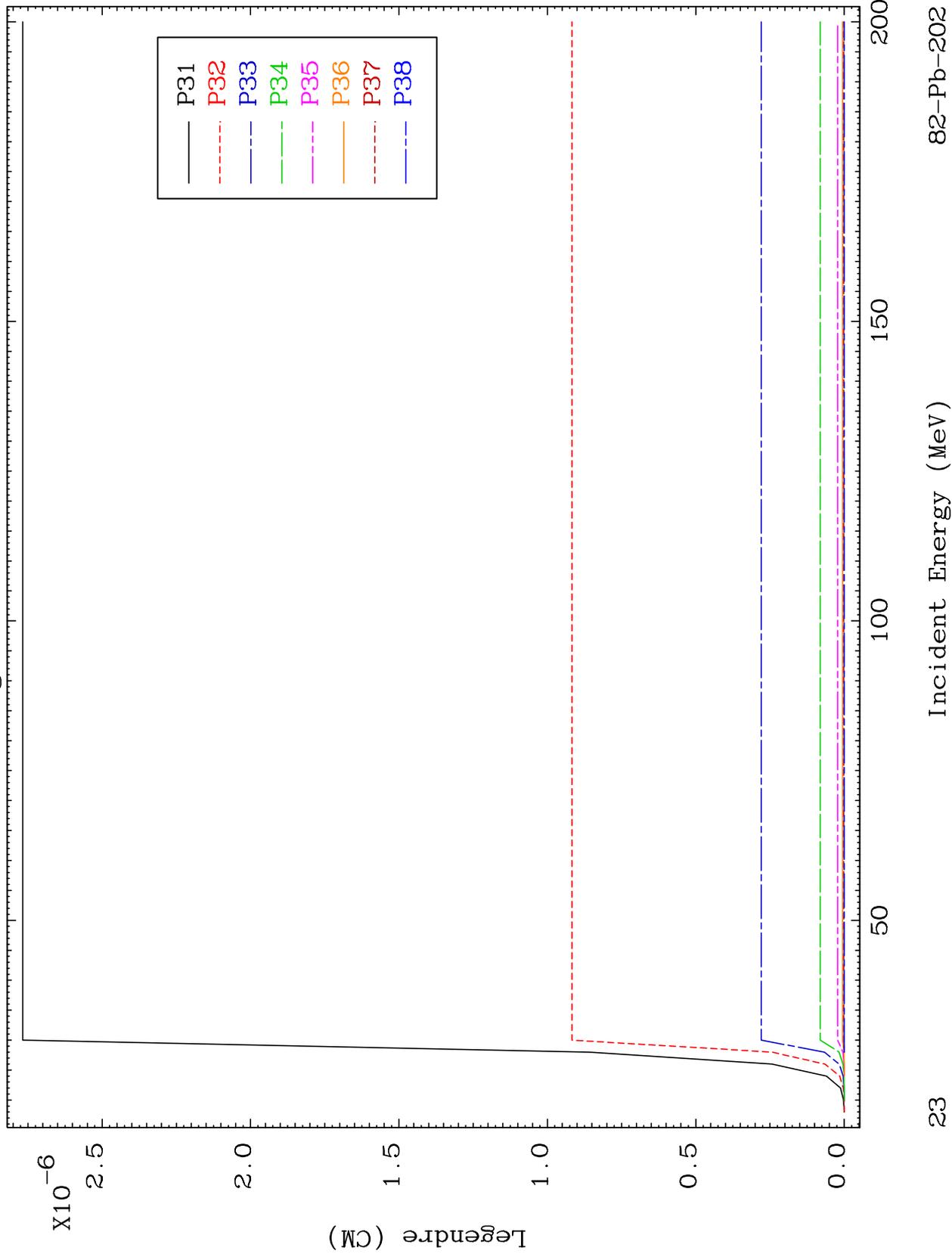
82-Pb-202



MAT 8219

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

82-Pb-202

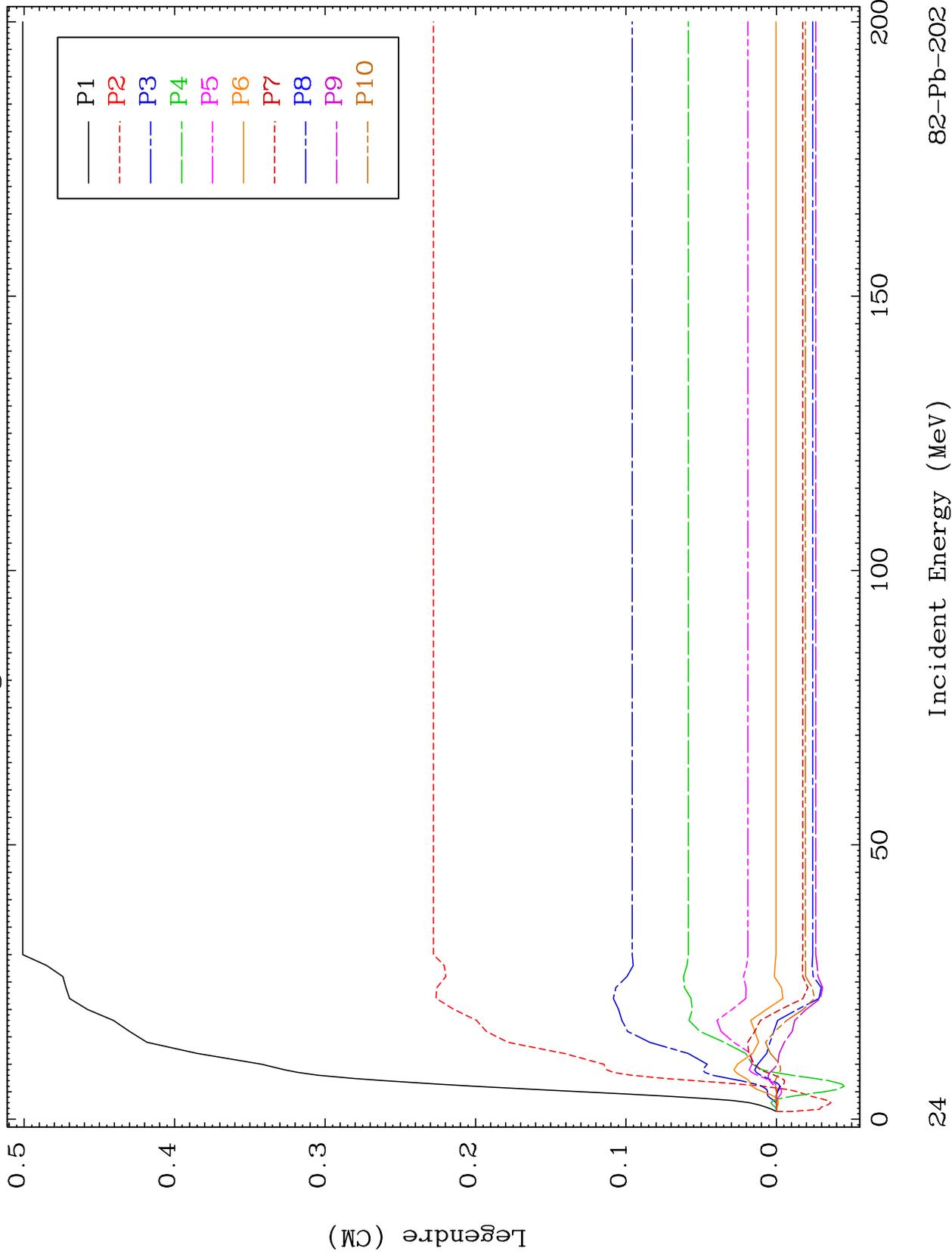


23

MAT 8219

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

82-Pb-202

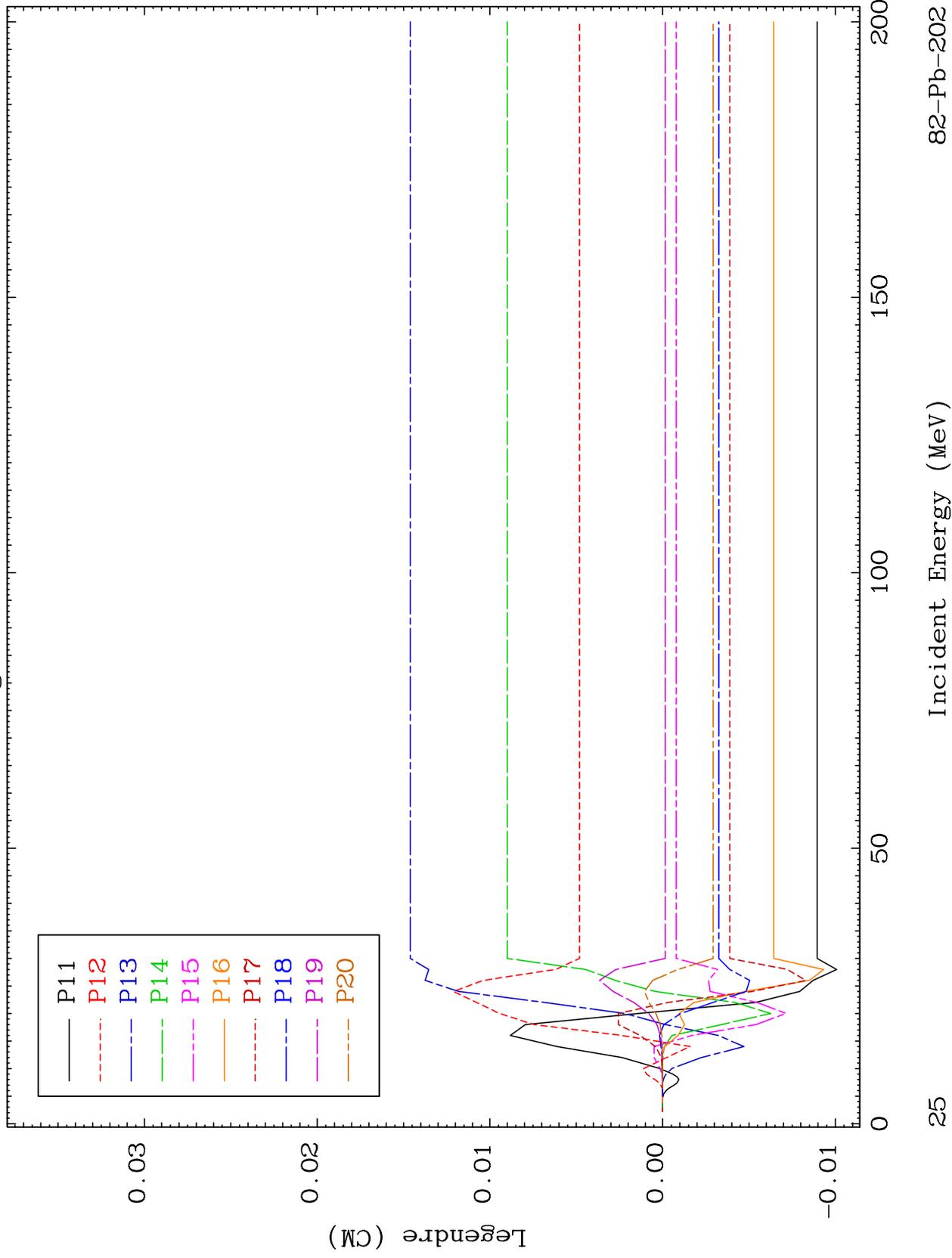


24

MAT 8219

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

82-Pb-202



82-Pb-202

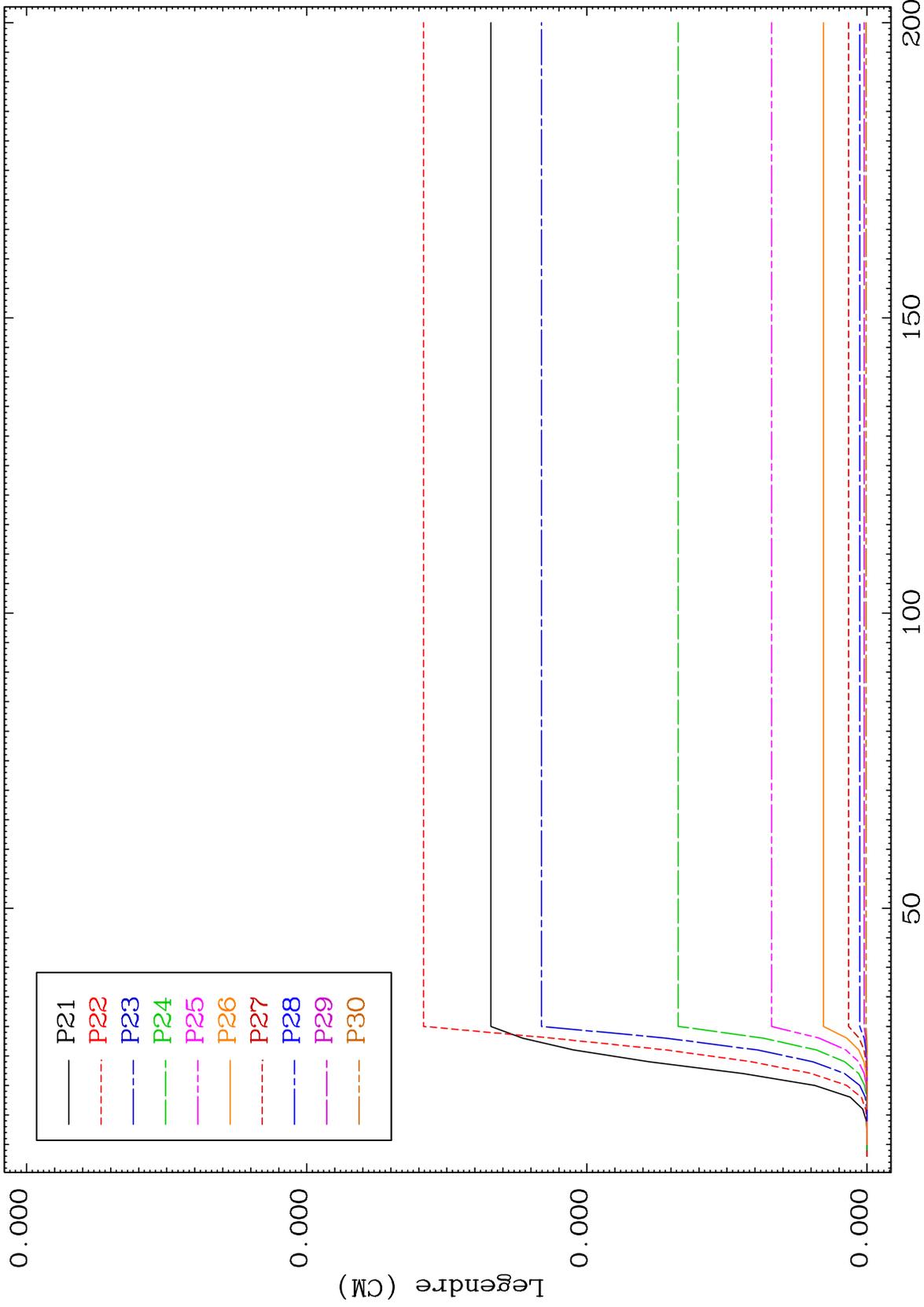
Incident Energy (MeV)

25

MAT 8219

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

82-Pb-202



26

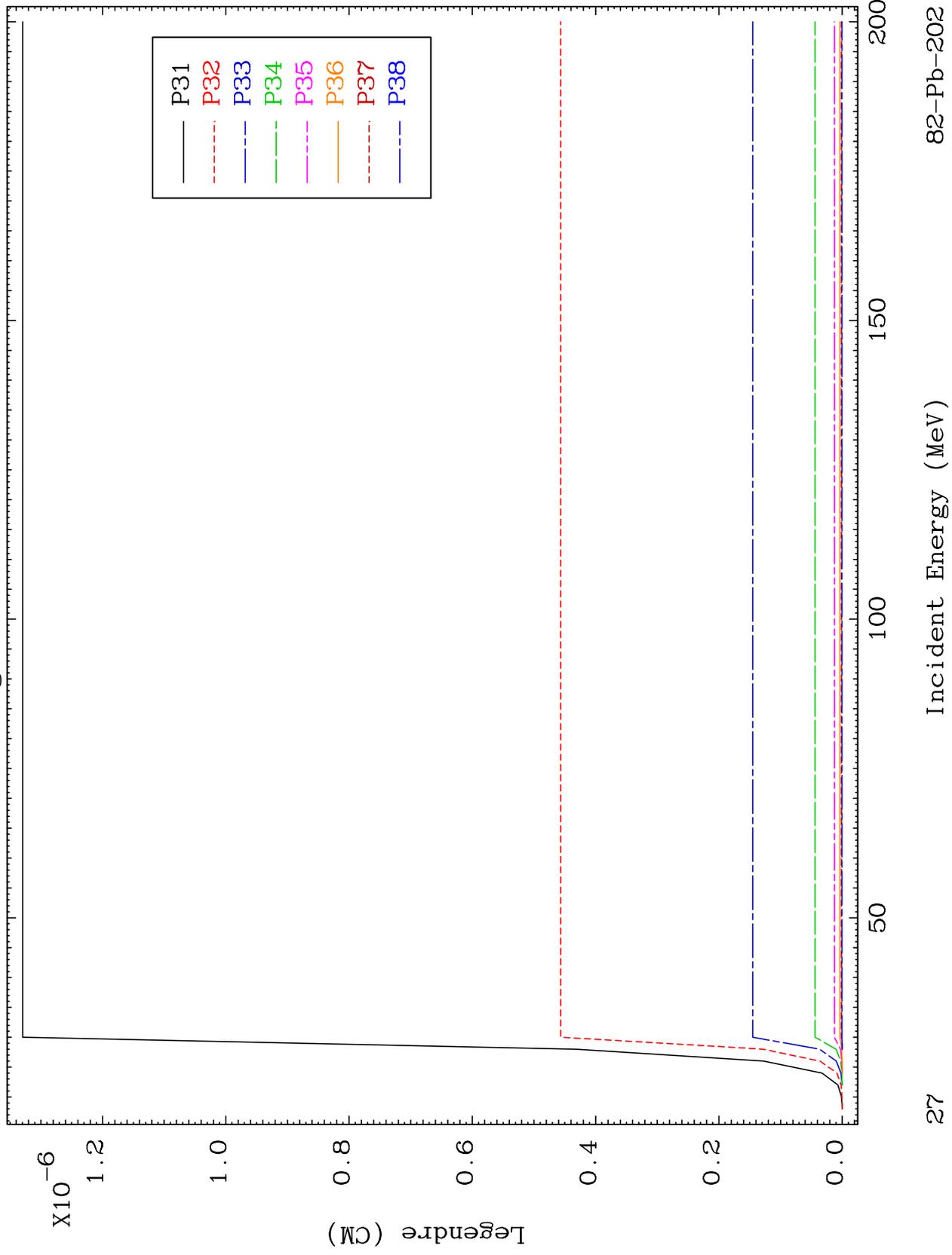
Incident Energy (MeV)

82-Pb-202

MAT 8219

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

82-Pb-202

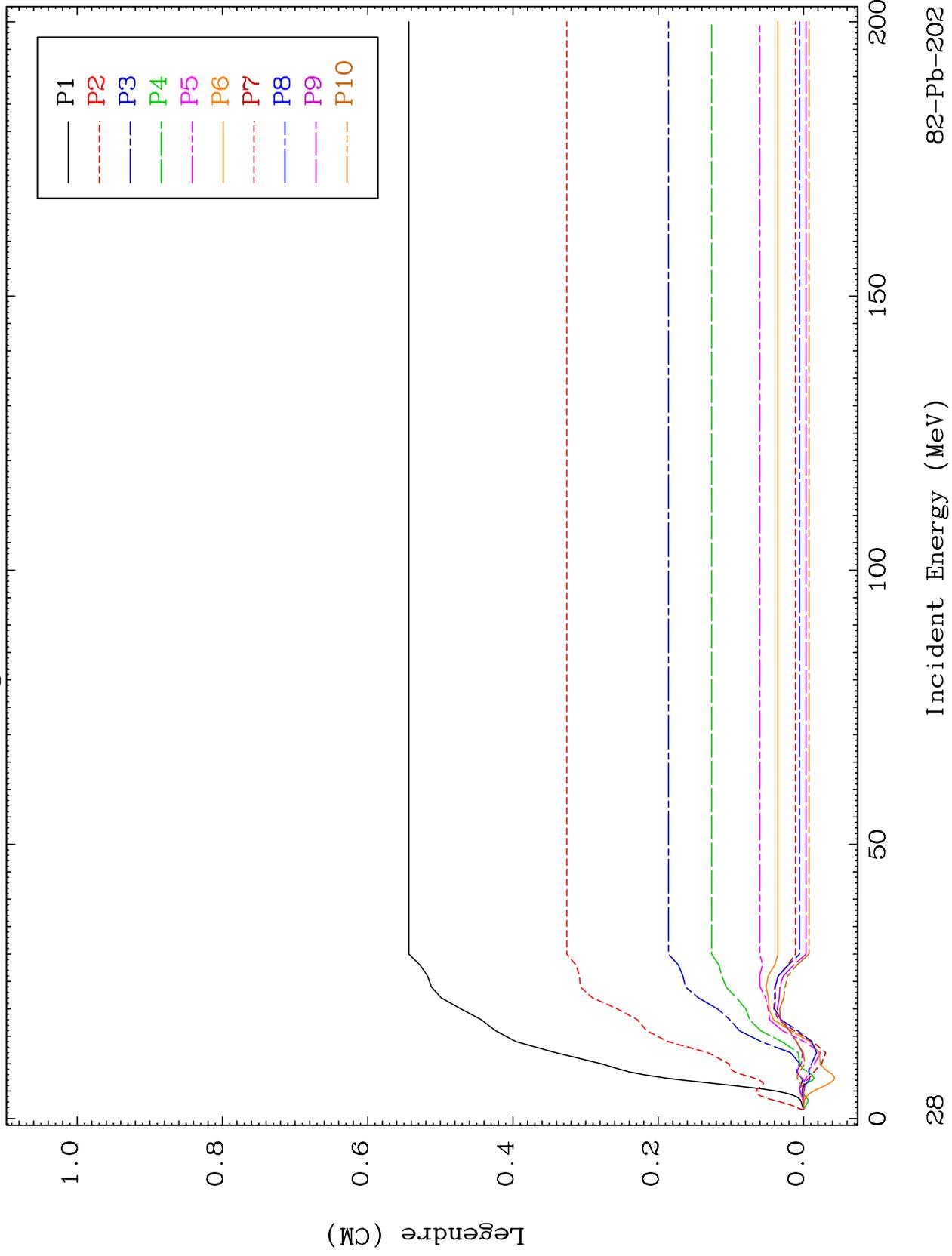


27

MAT 8219

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

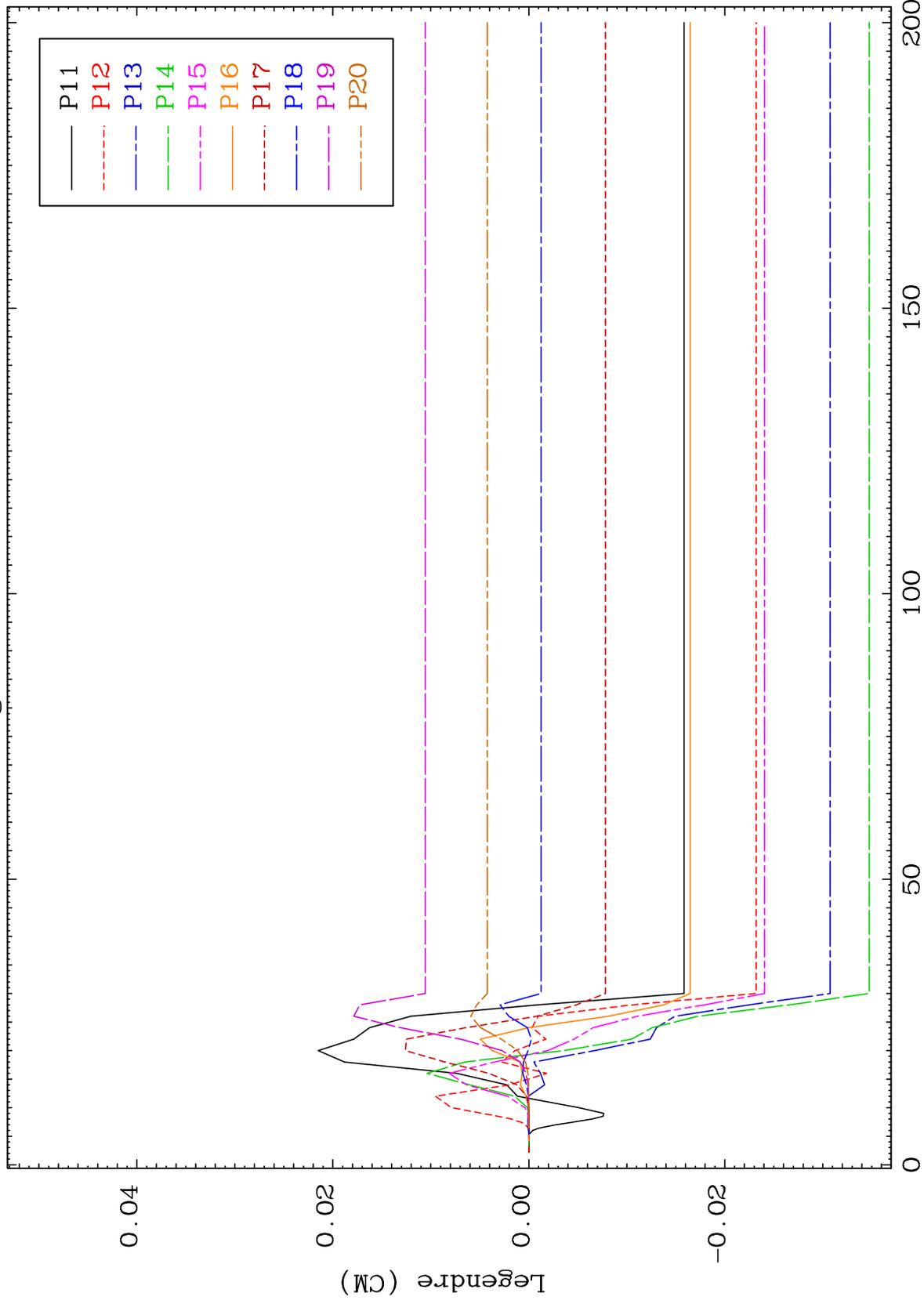
82-Pb-202



MAT 8219

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

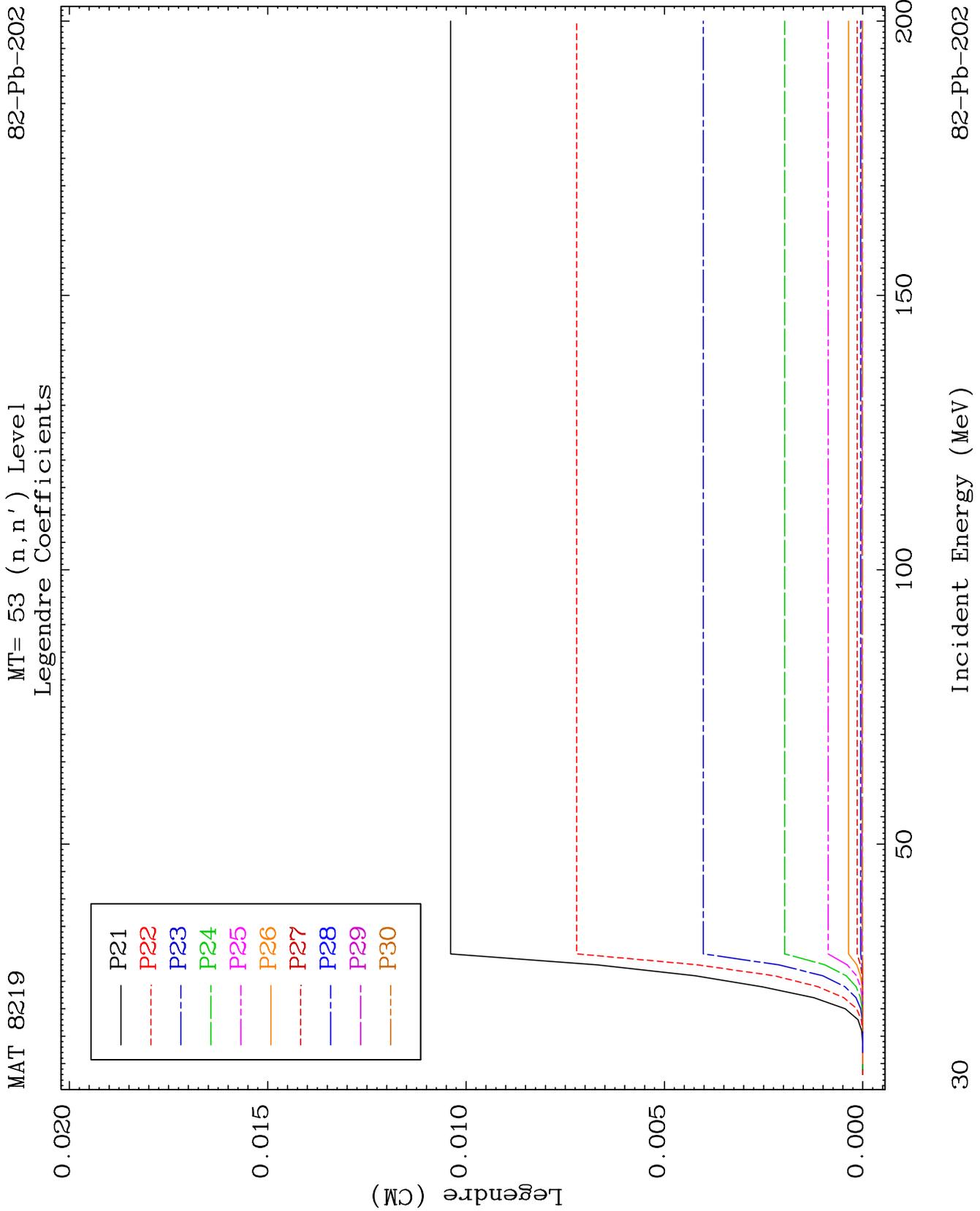
82-Pb-202



29

Incident Energy (MeV)

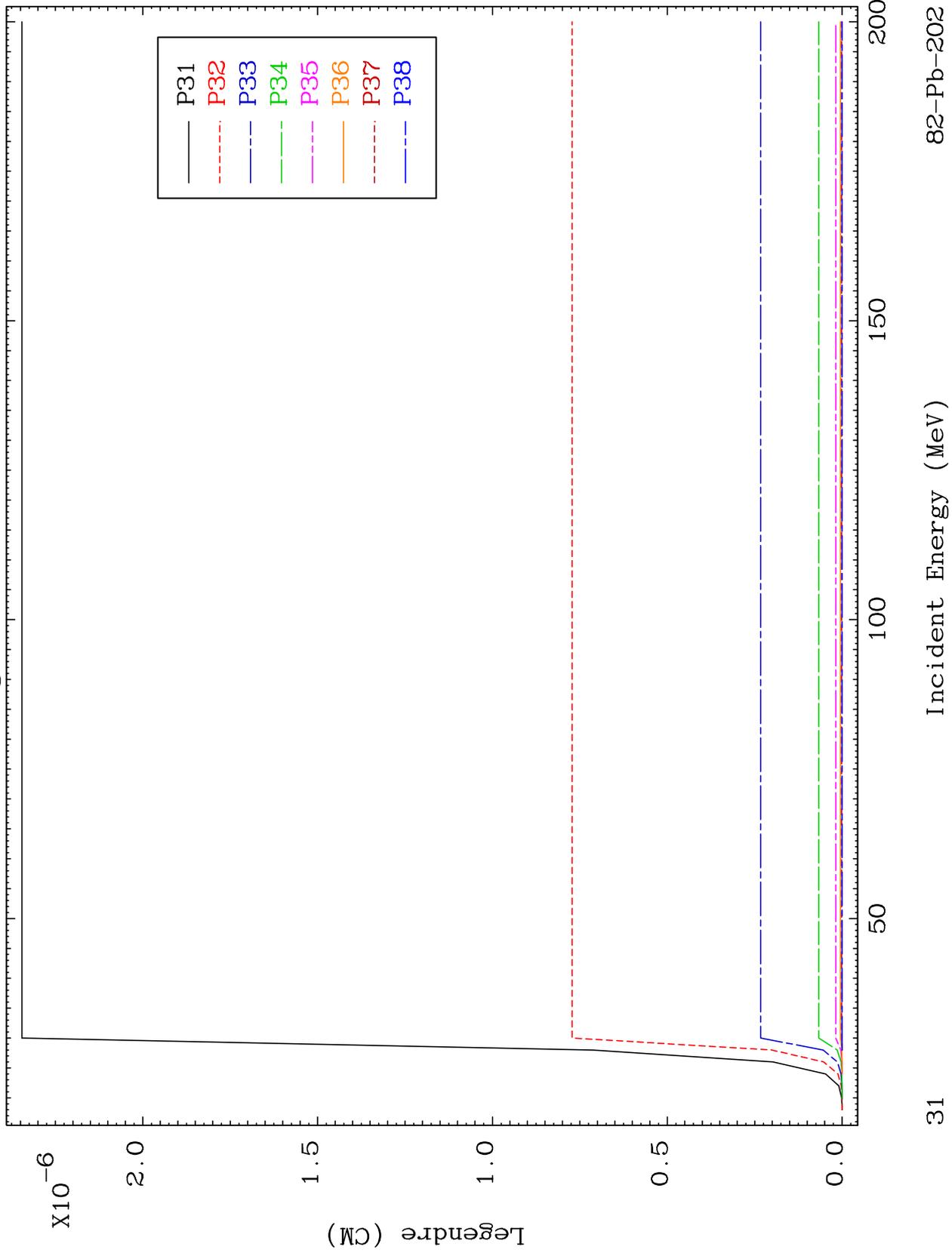
82-Pb-202



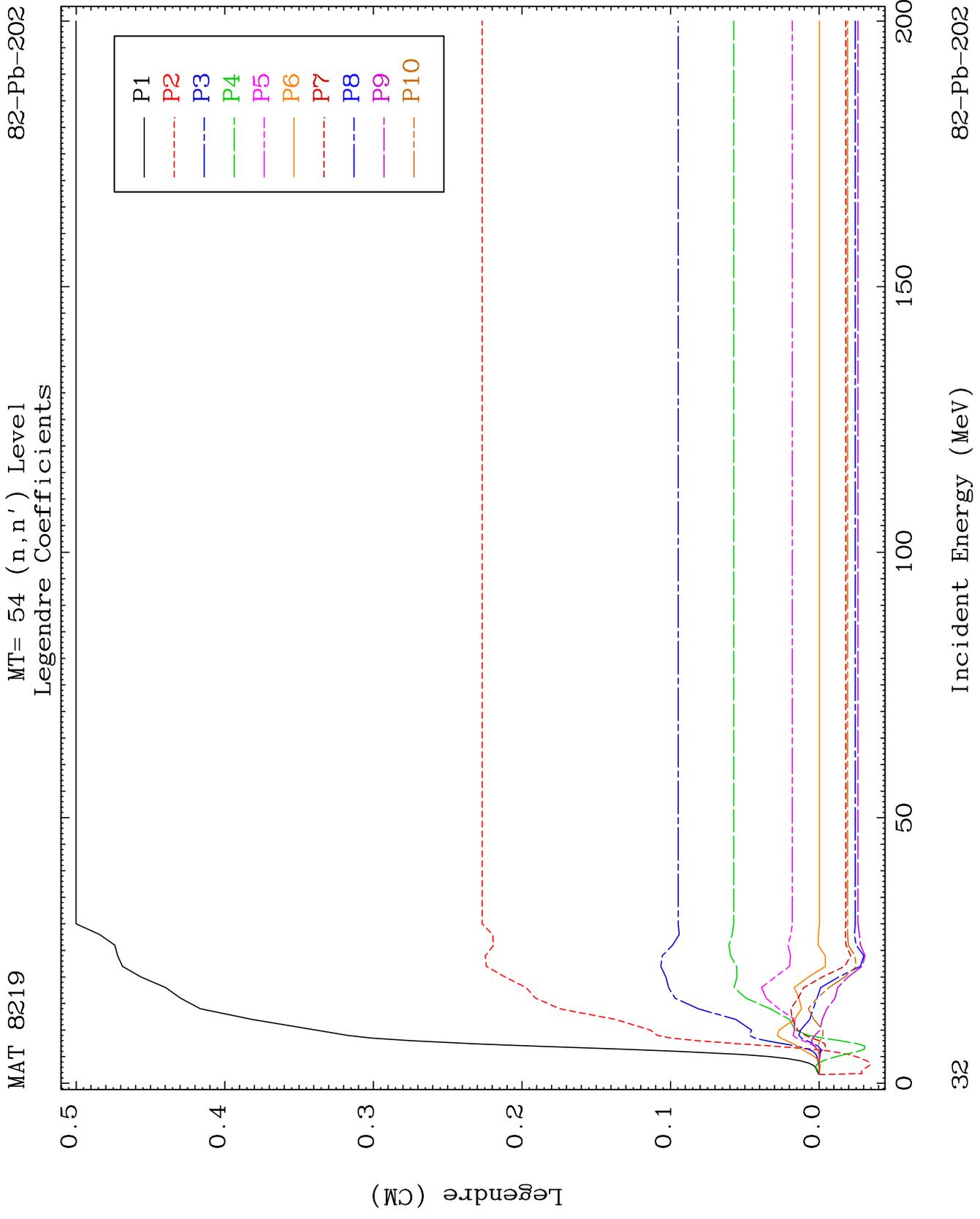
MAT 8219

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

82-Pb-202



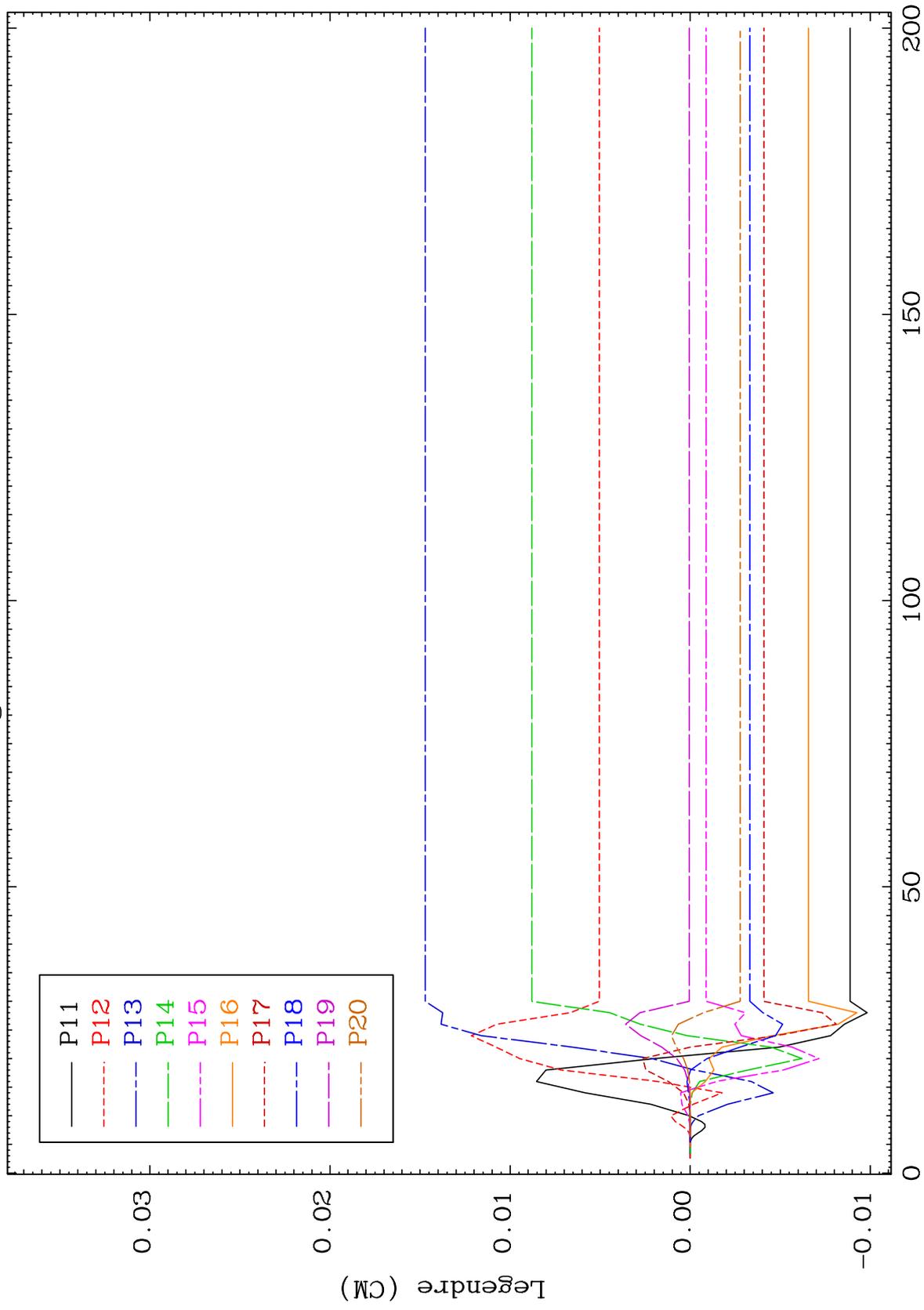
31



MAT 8219

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

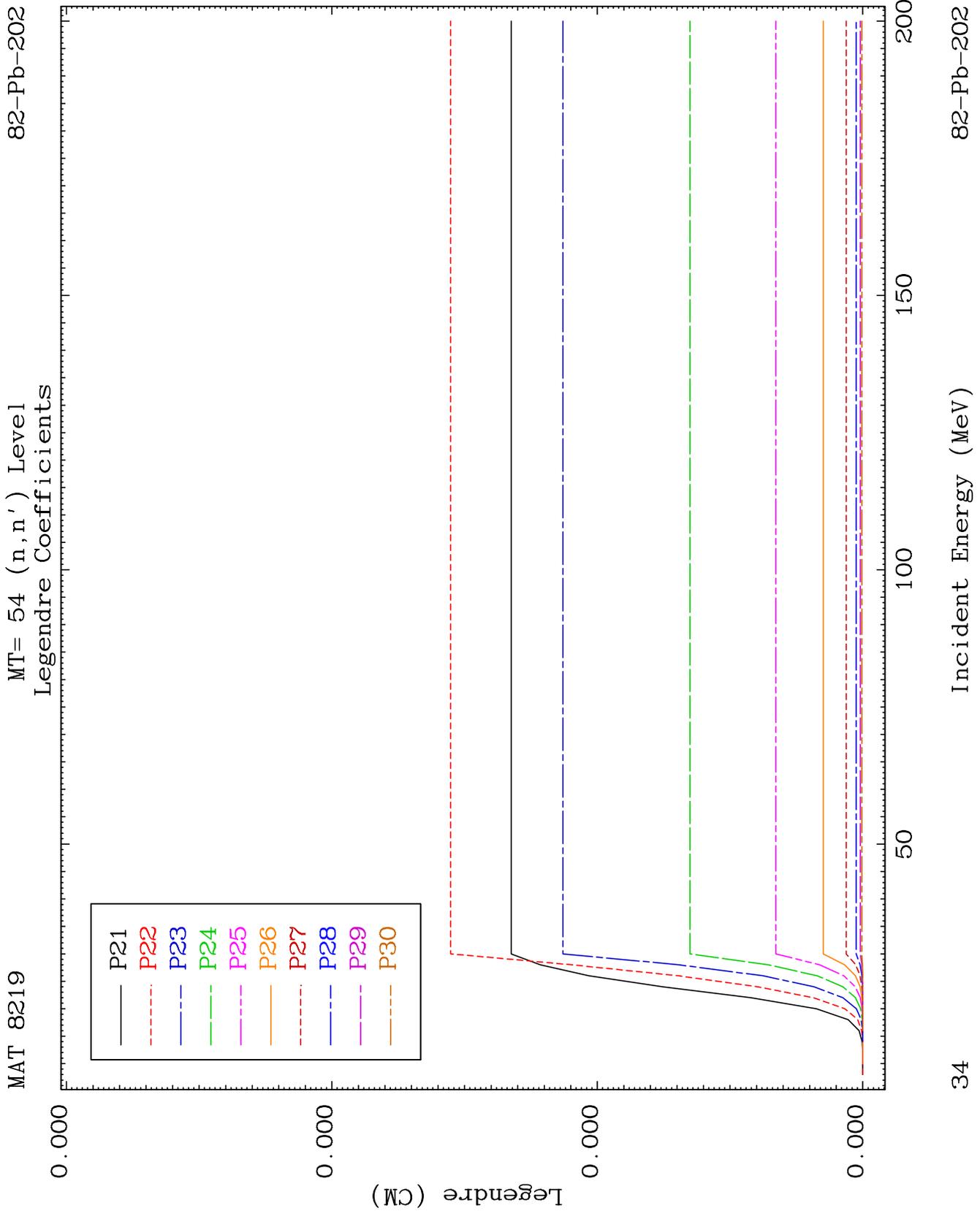
82-Pb-202



33

Incident Energy (MeV)

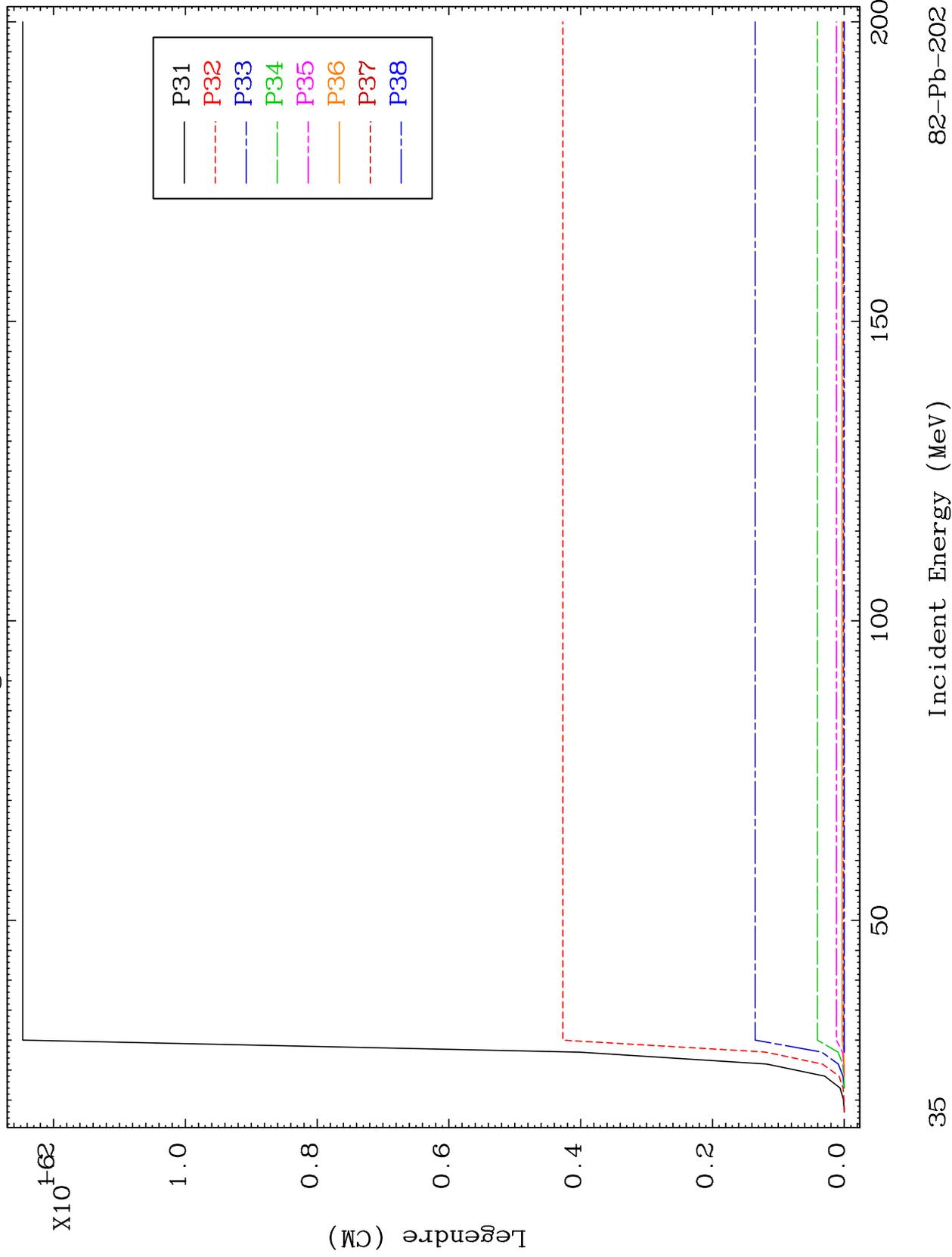
82-Pb-202



MAT 8219

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

82-Pb-202



35

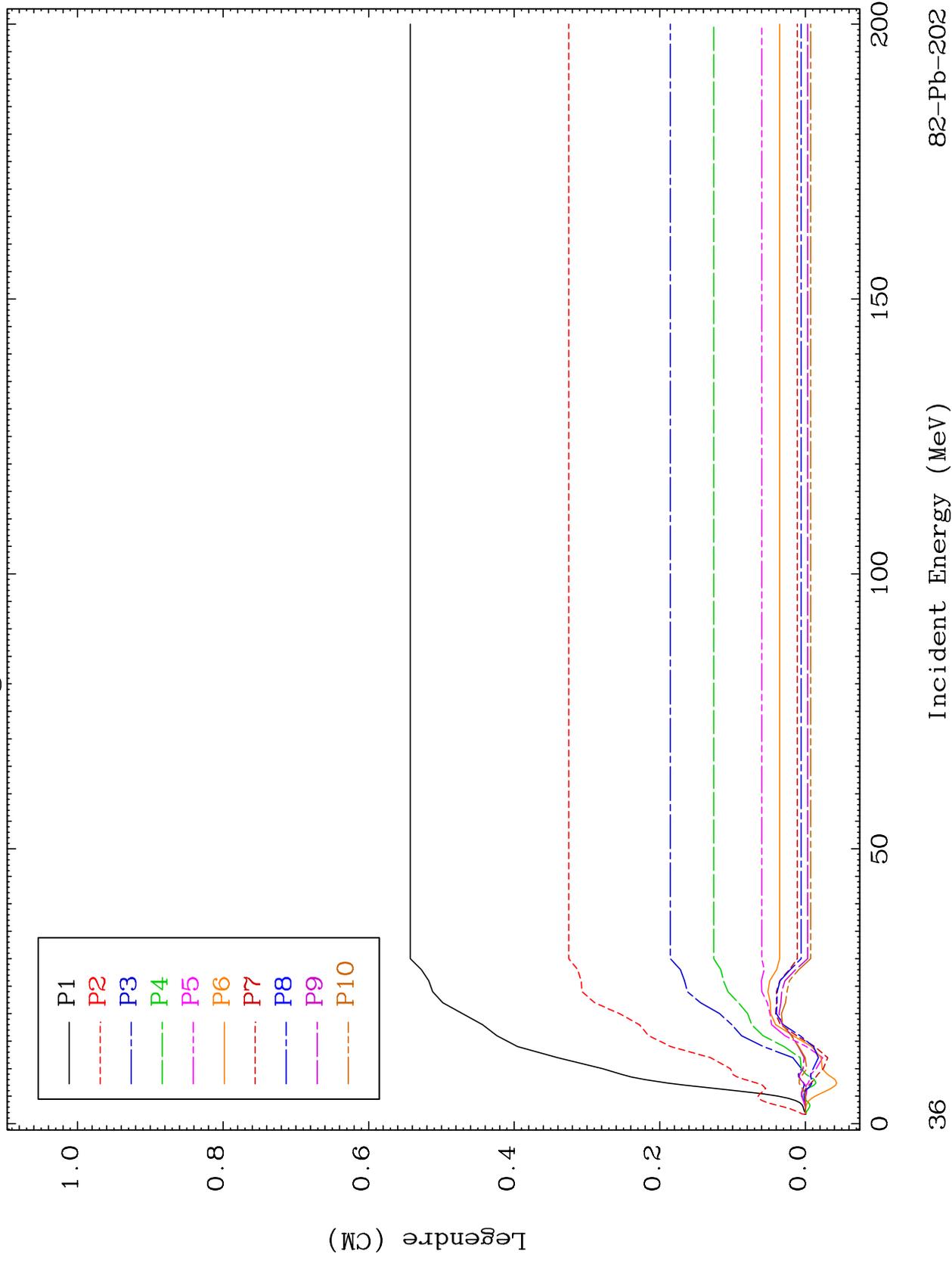
Incident Energy (MeV)

82-Pb-202

MAT 8219

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

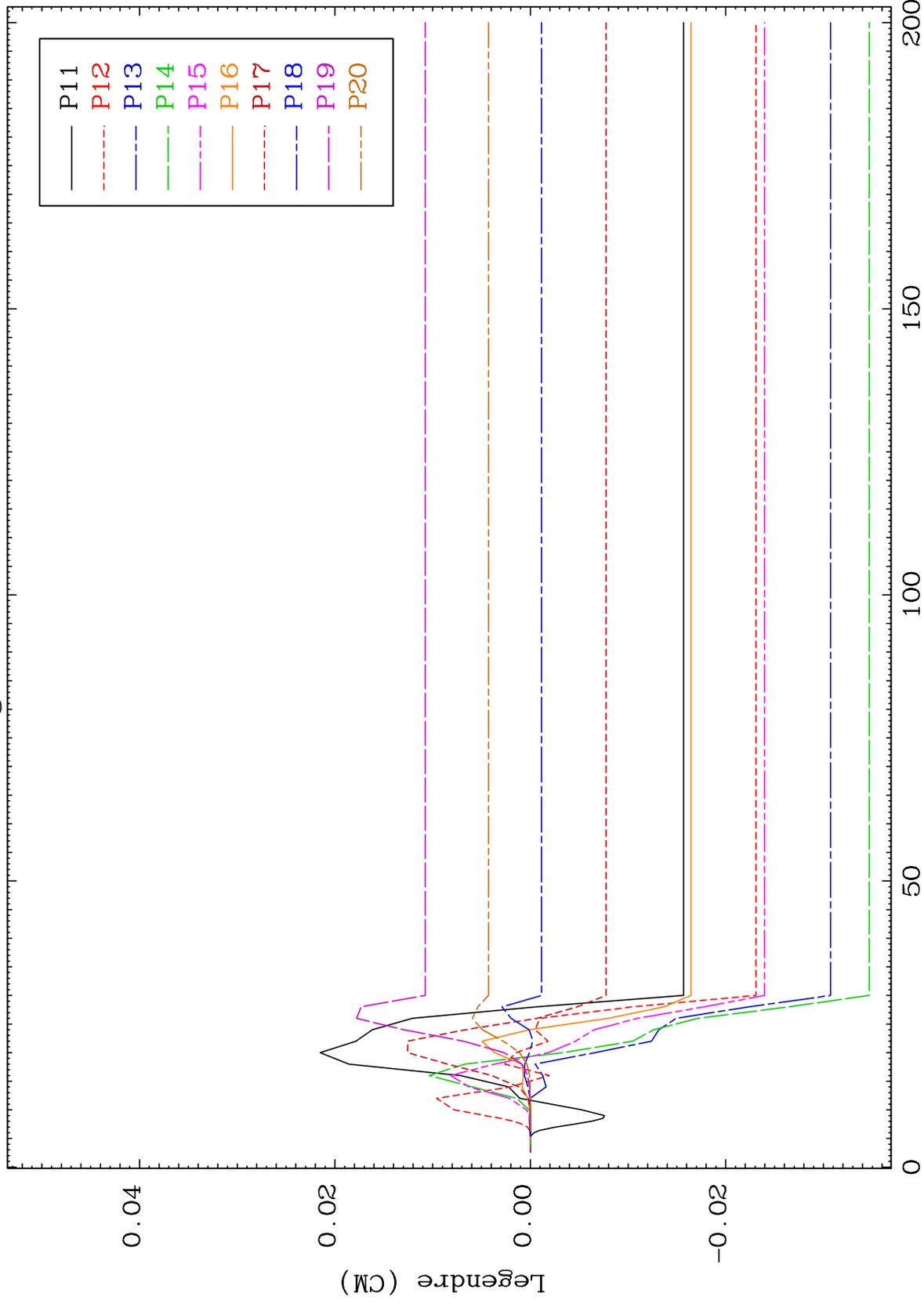
82-Pb-202



MAT 8219

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

82-Pb-202



37

Incident Energy (MeV)

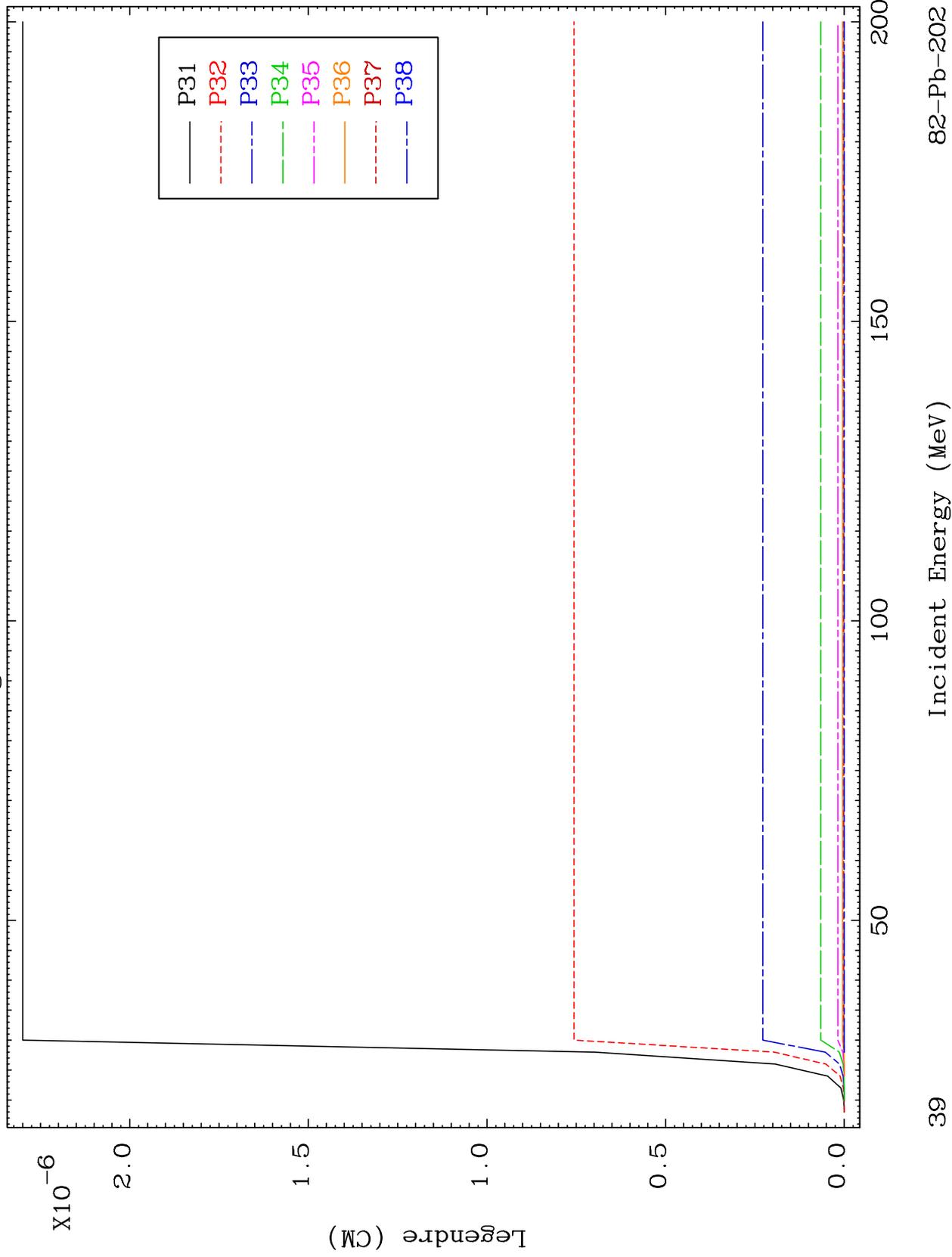
82-Pb-202



MAT 8219

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

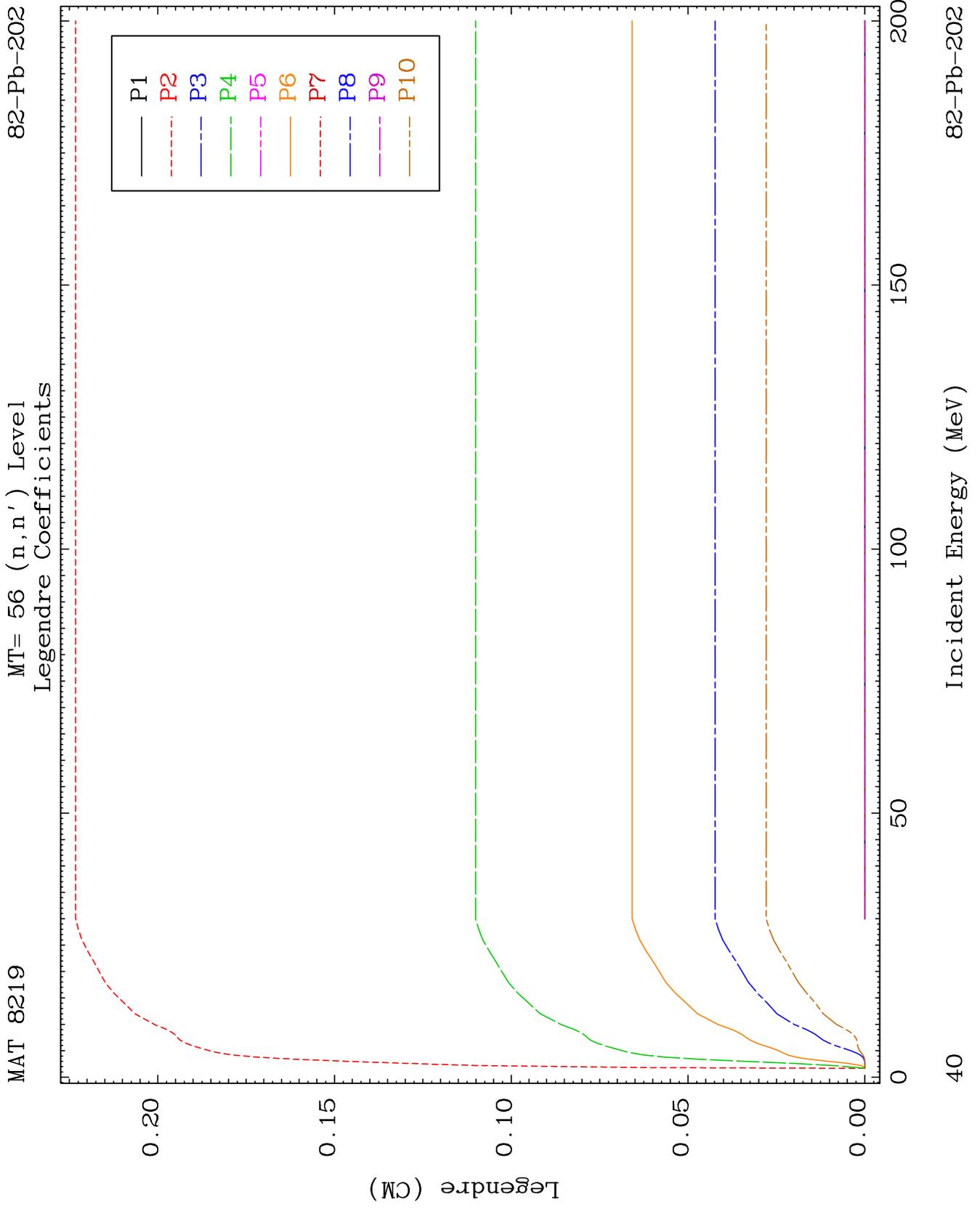
82-Pb-202



39

Incident Energy (MeV)

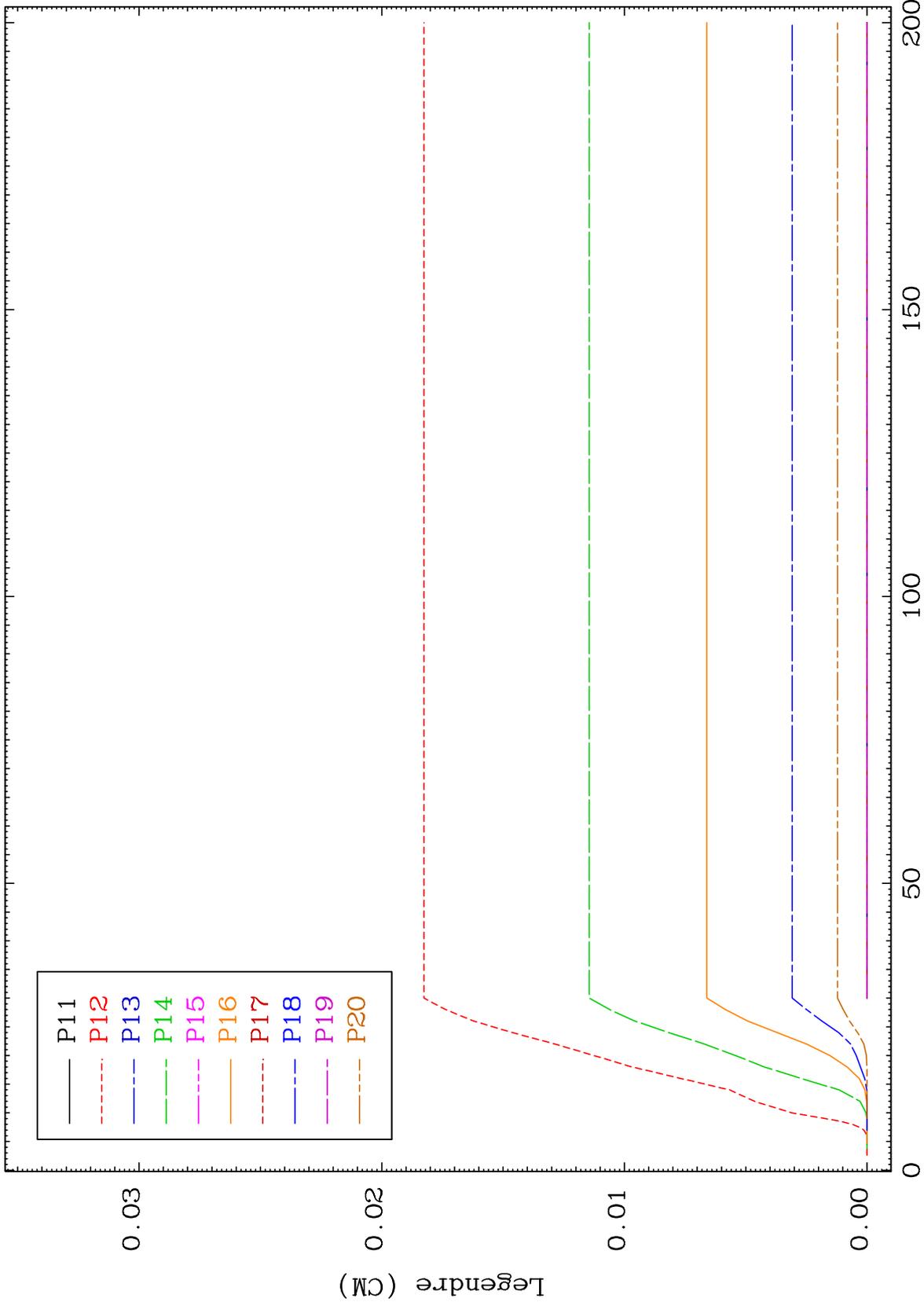
82-Pb-202



MAT 8219

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

82-Pb-202



41

Incident Energy (MeV)

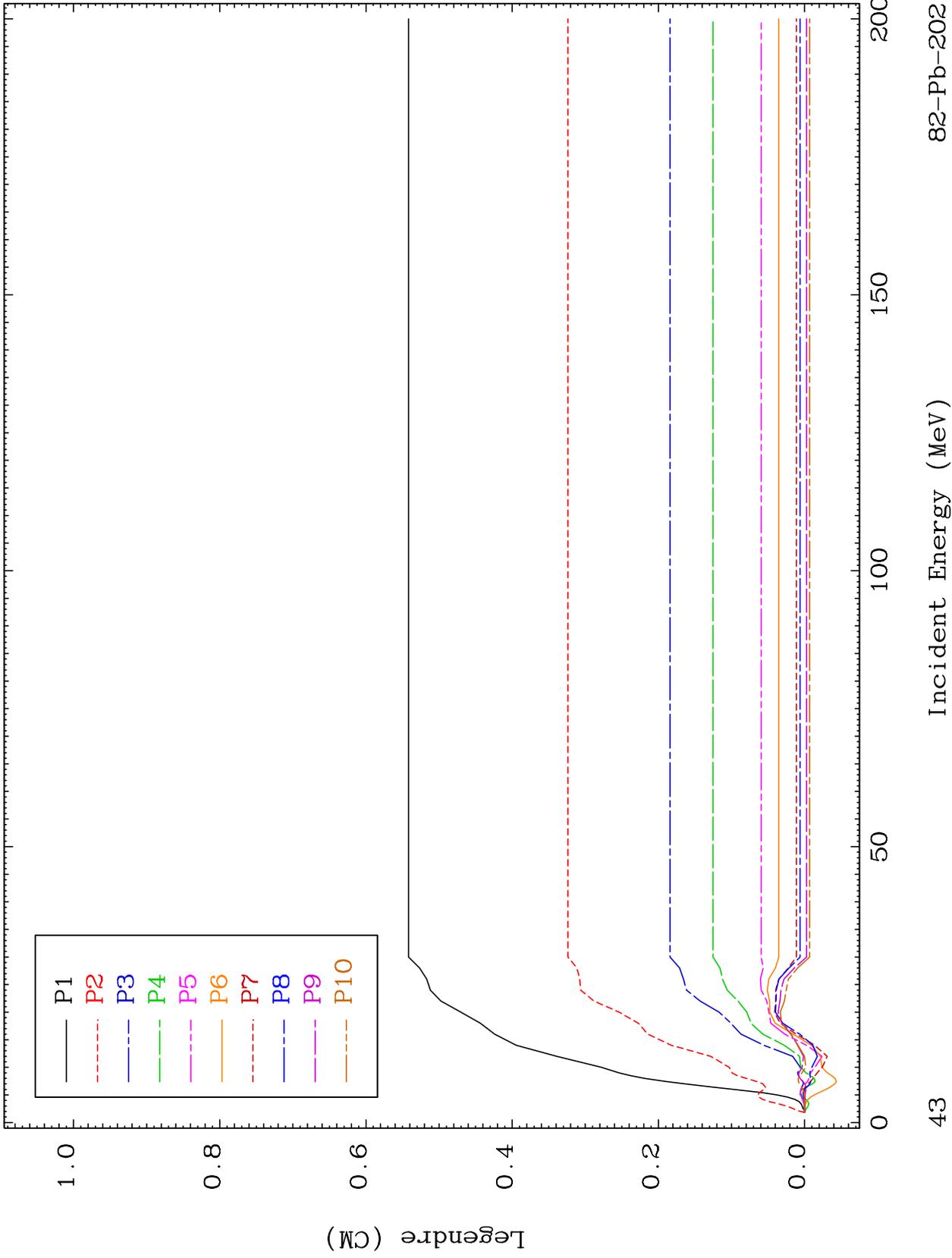
82-Pb-202



MAT 8219

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

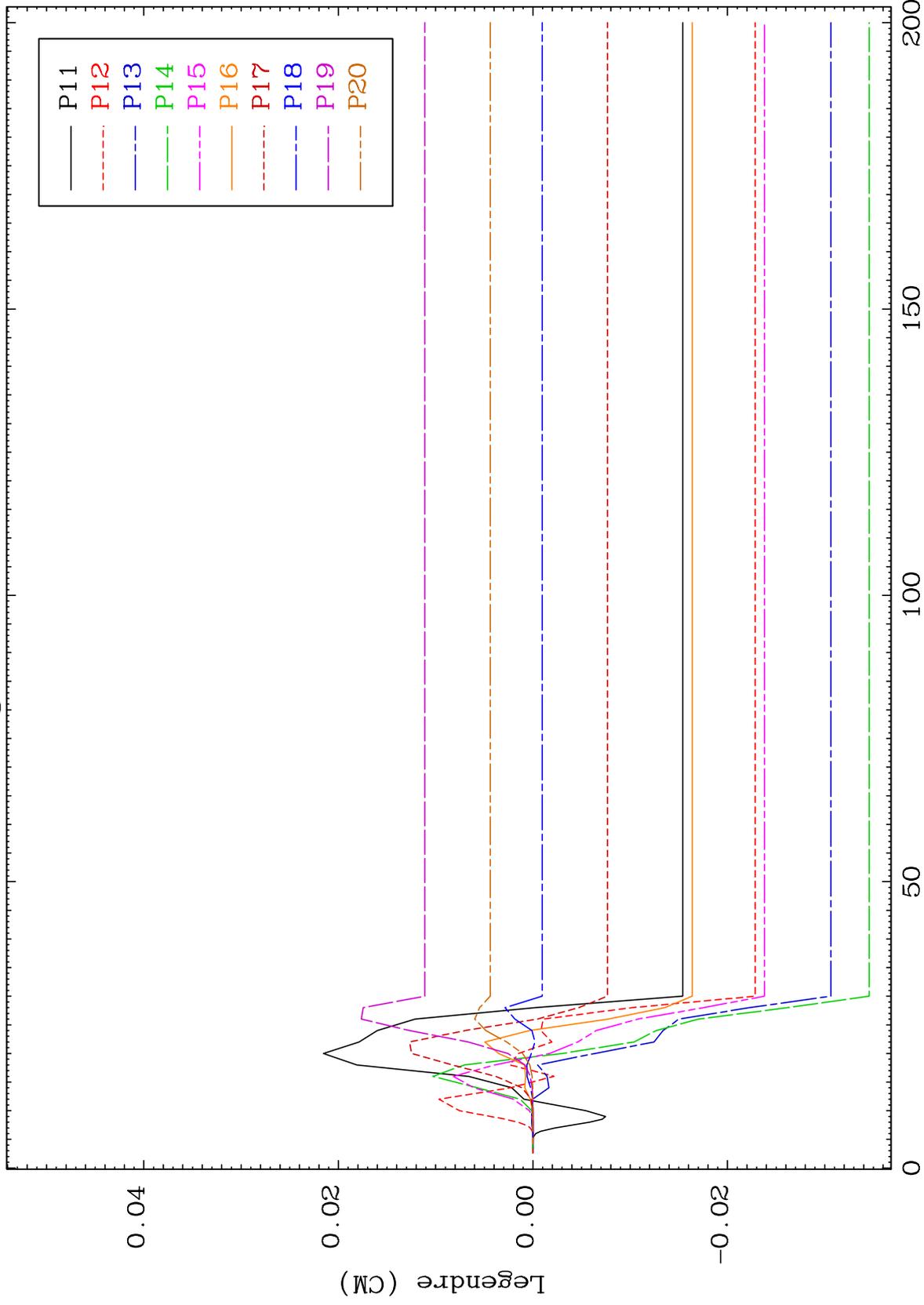
82-Pb-202



MAT 8219

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

82-Pb-202



44

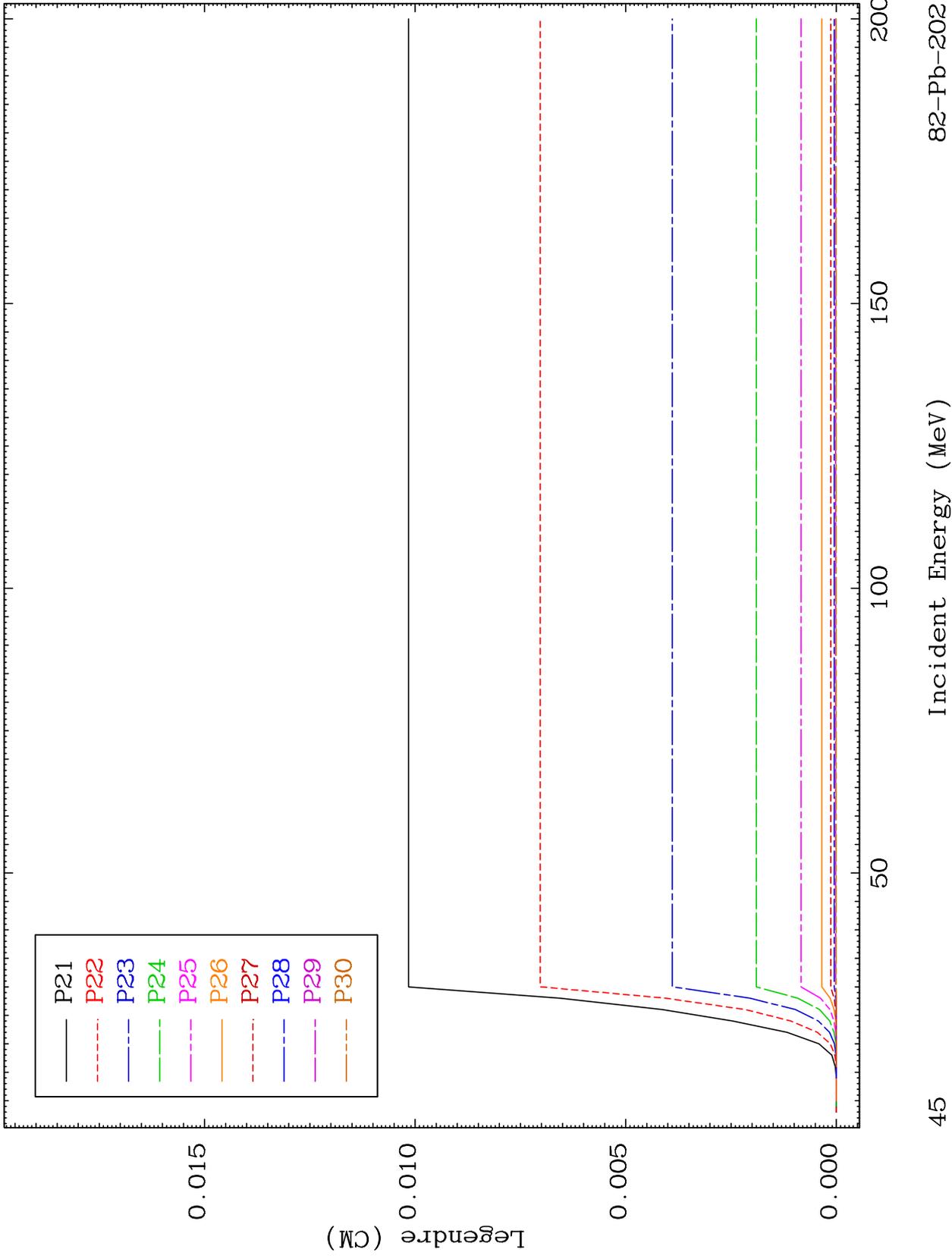
Incident Energy (MeV)

82-Pb-202

MAT 8219

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

82-Pb-202



45

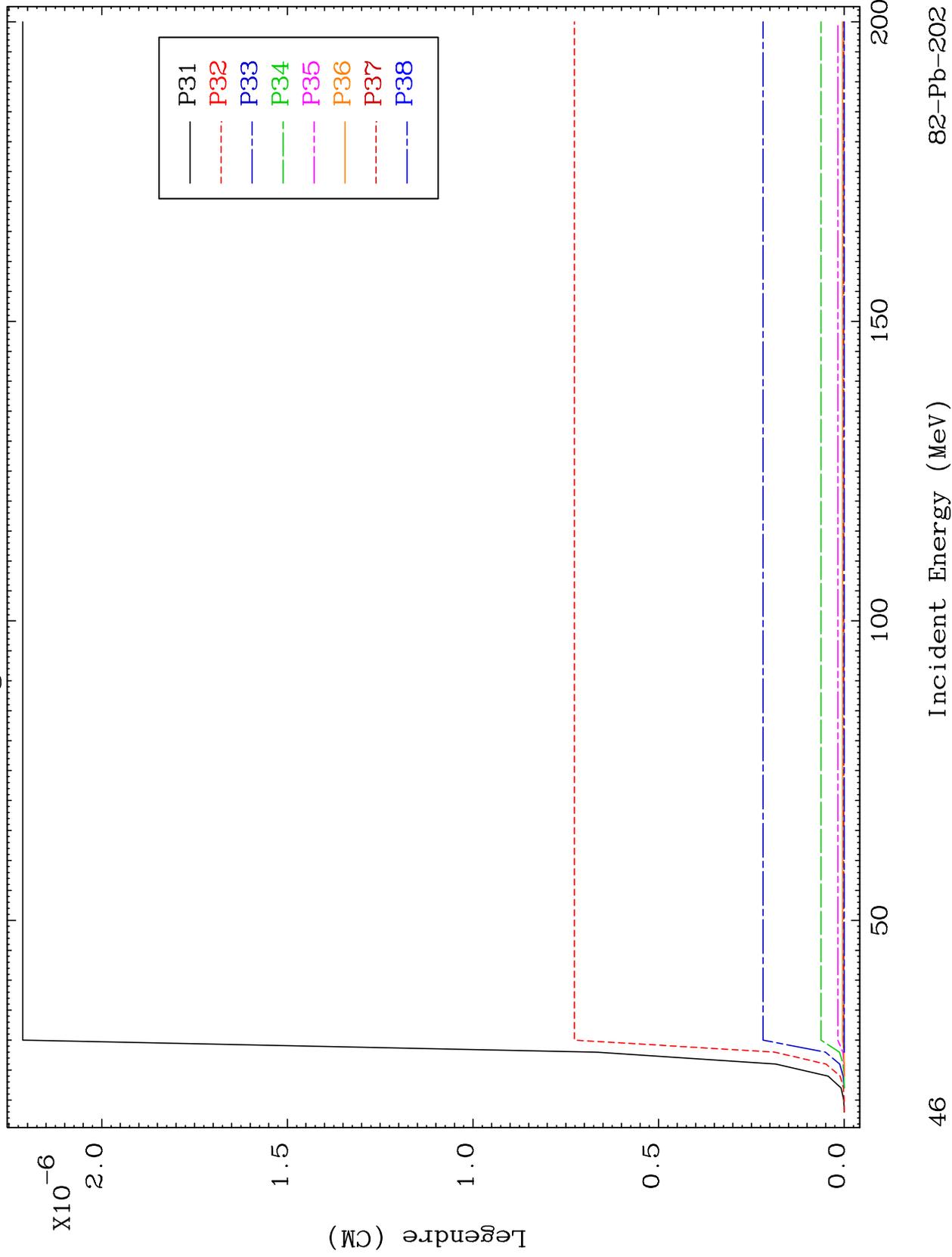
Incident Energy (MeV)

82-Pb-202

MAT 8219

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

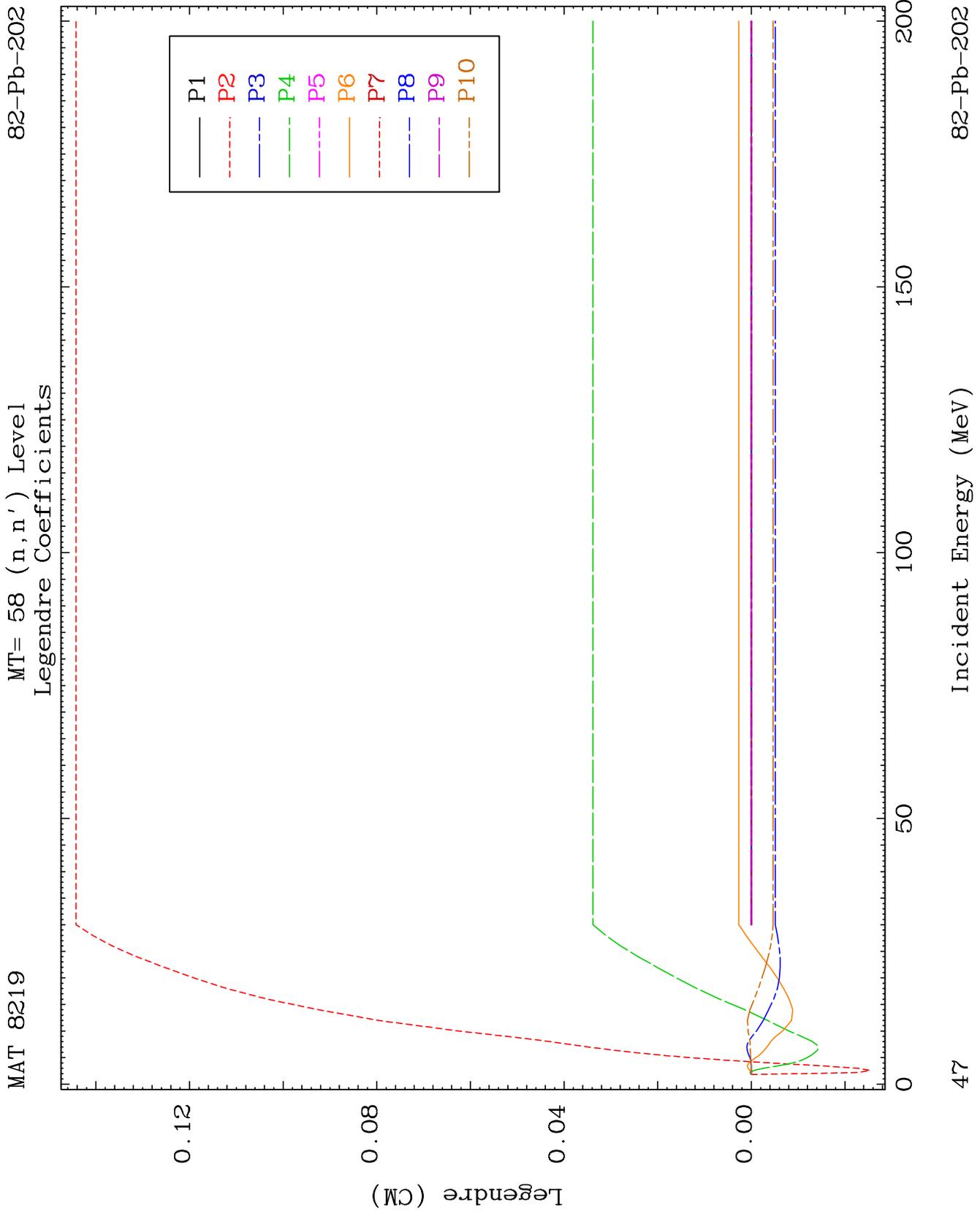
82-Pb-202



46

Incident Energy (MeV)

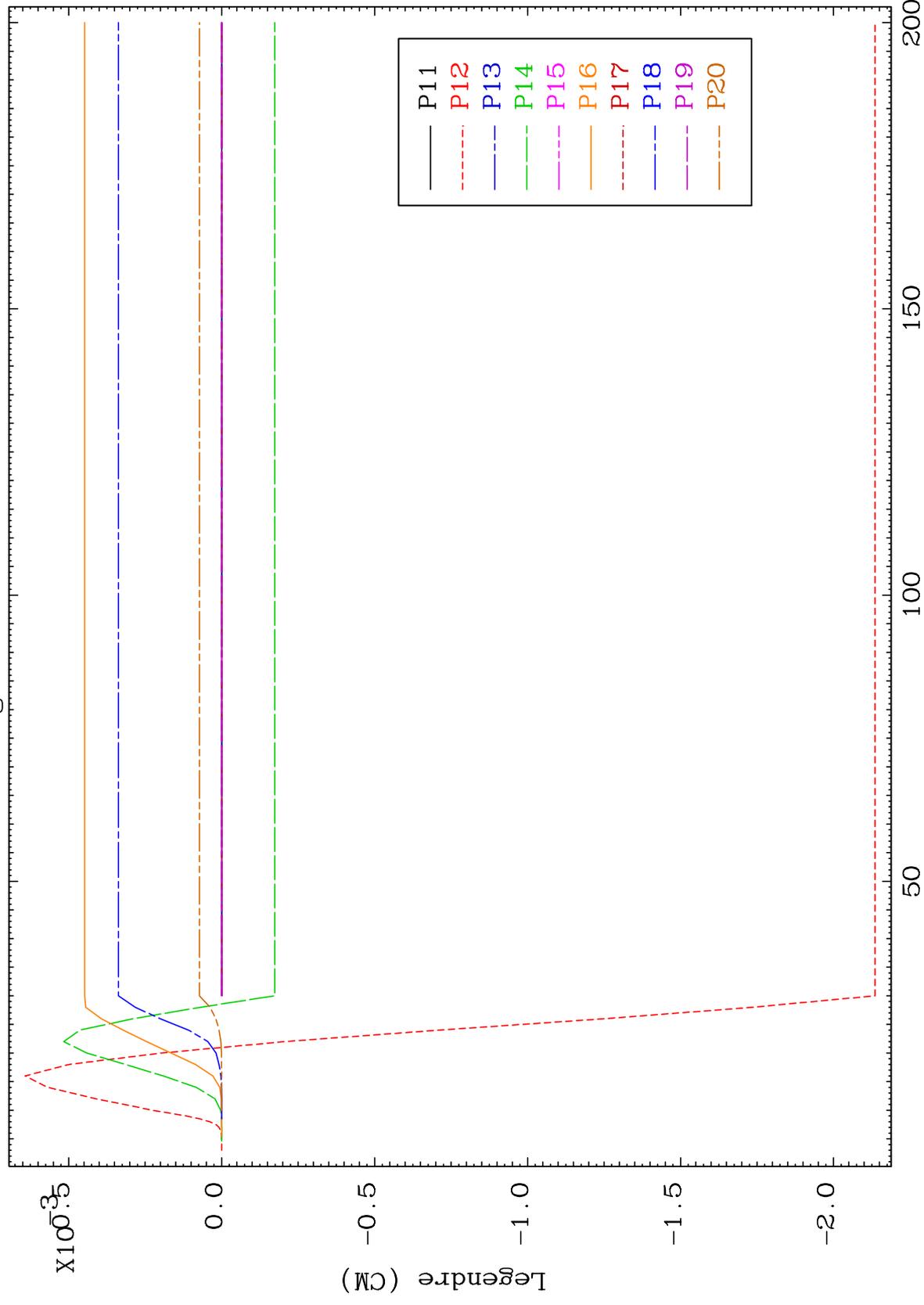
82-Pb-202



MAT 8219

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

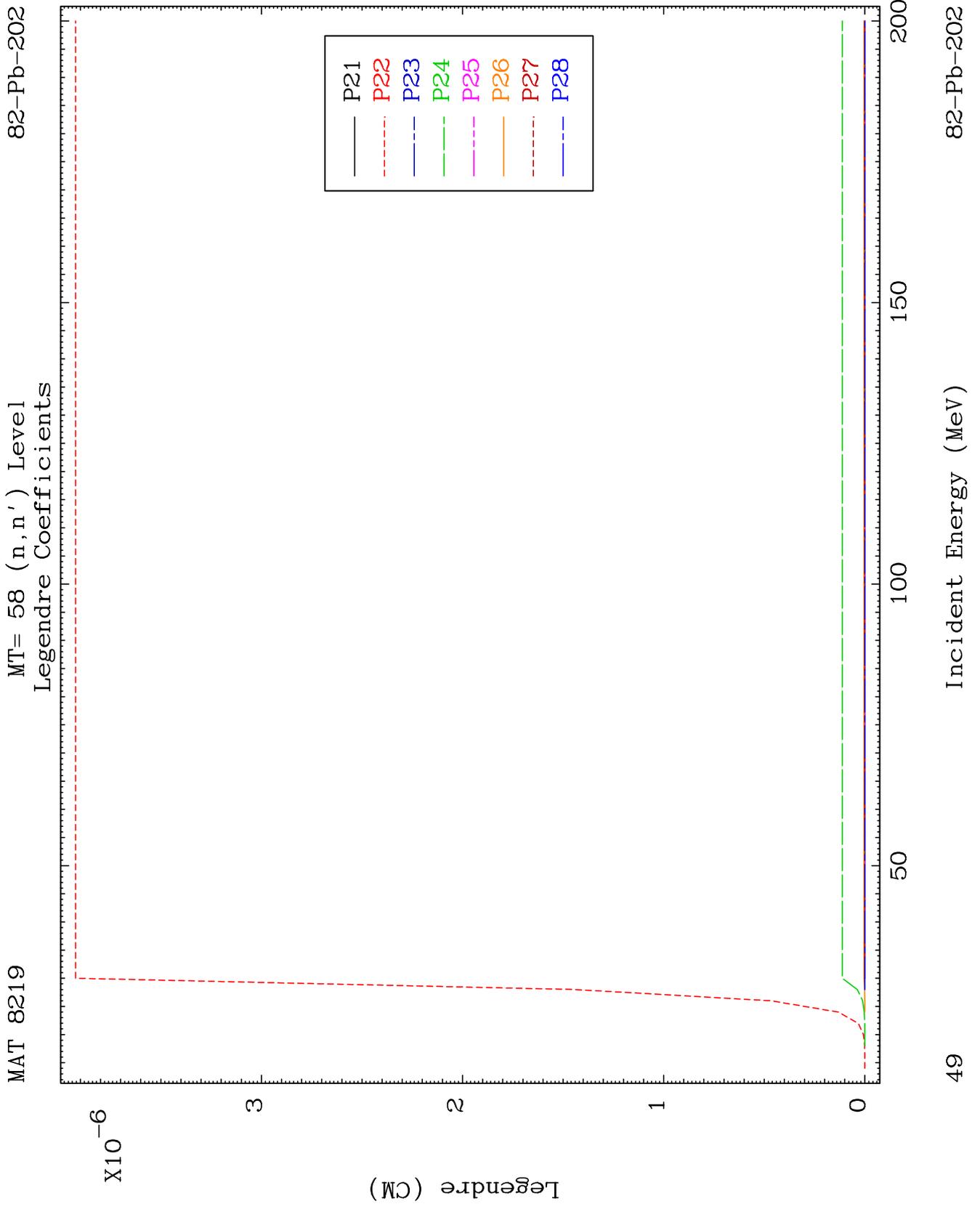
82-Pb-202

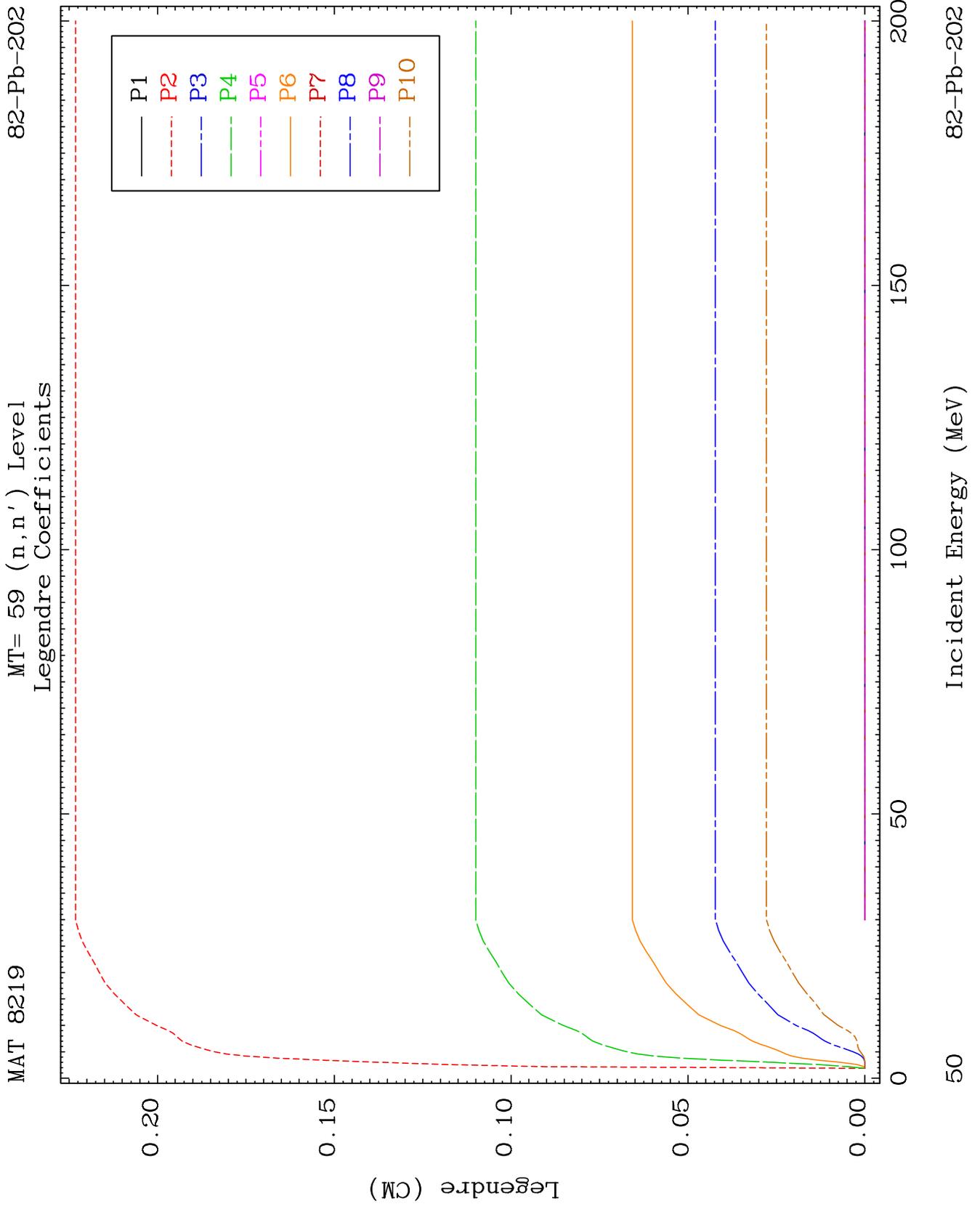


48

Incident Energy (MeV)

82-Pb-202

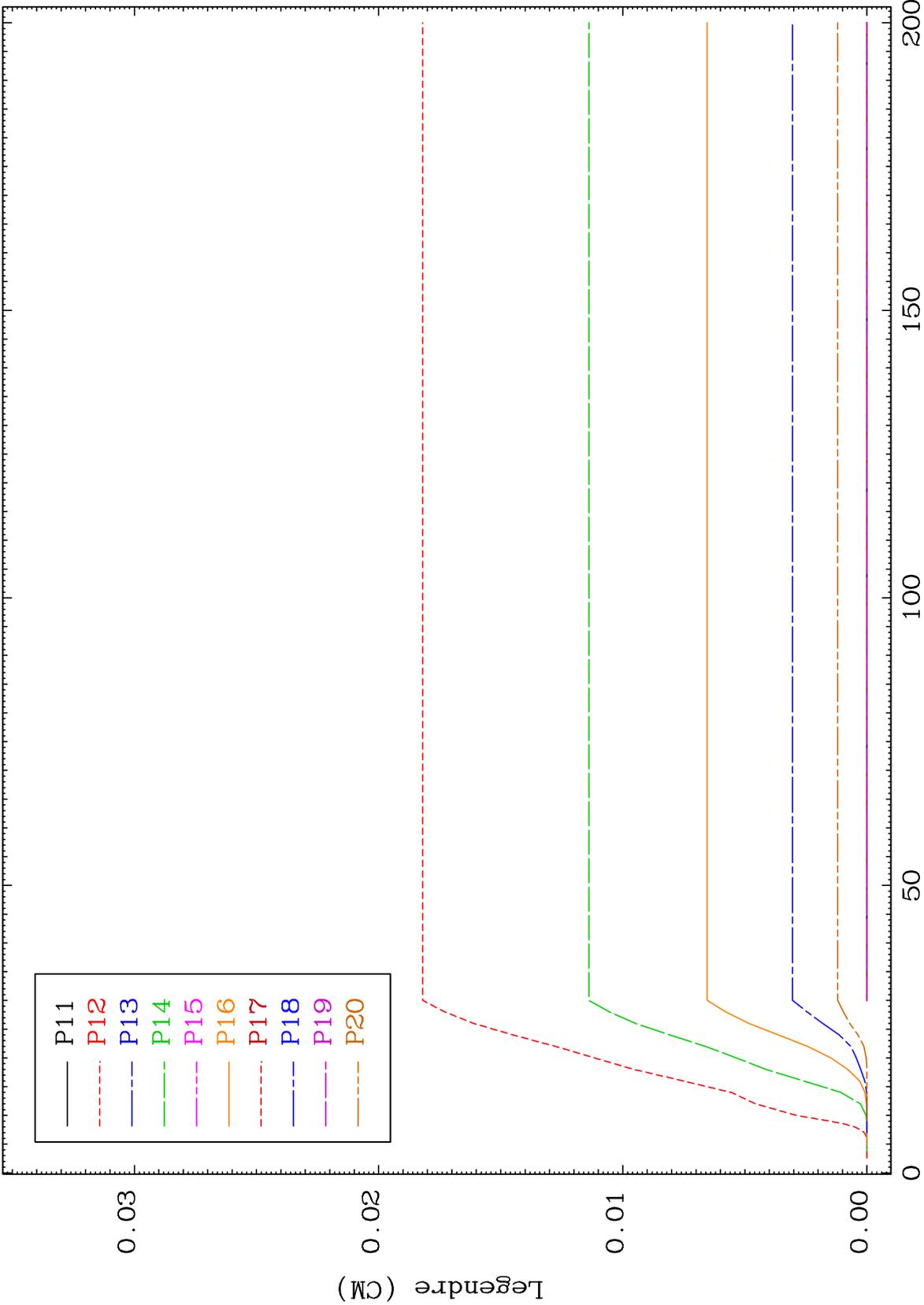




MAT 8219

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

82-Pb-202

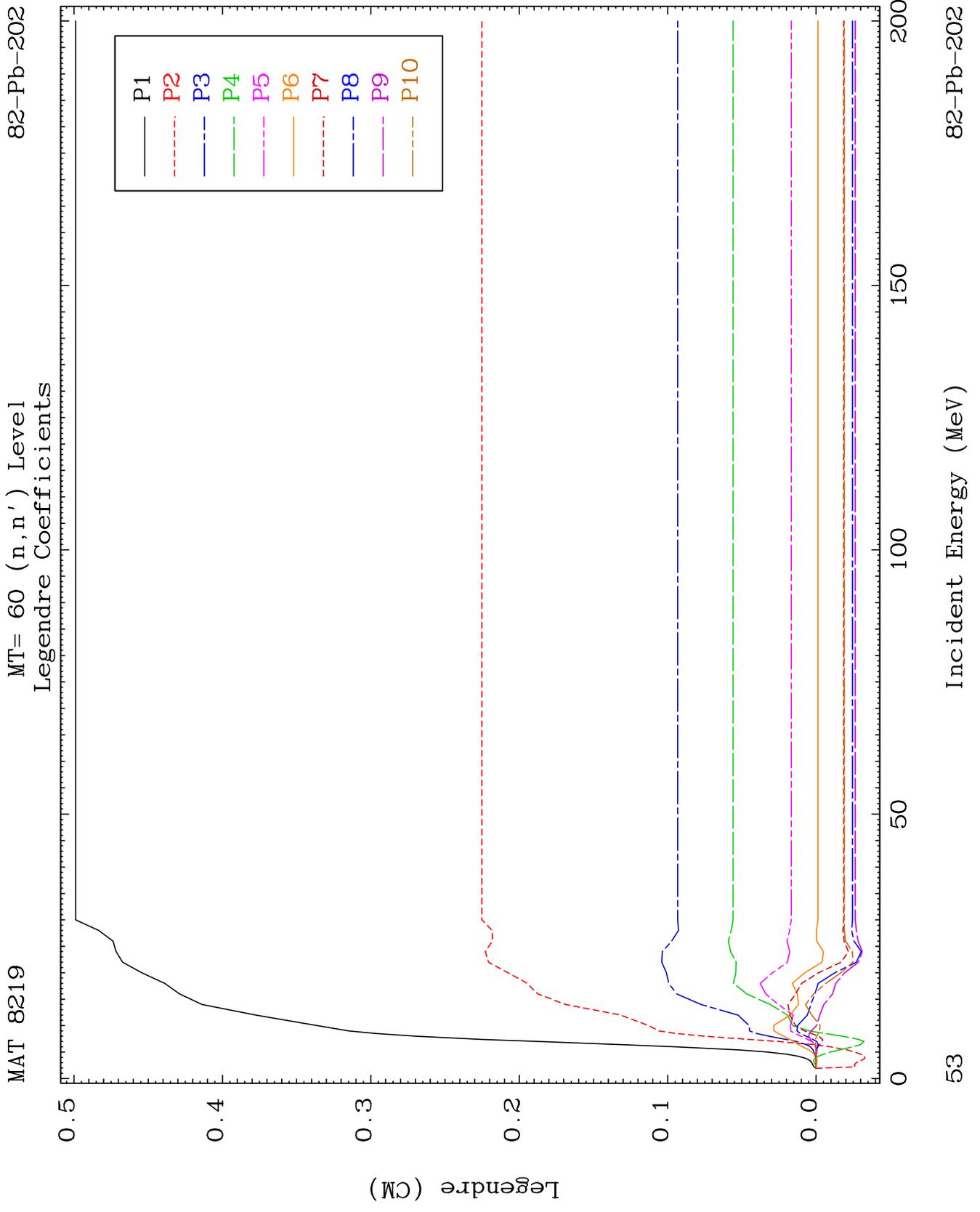


51

Incident Energy (MeV)

82-Pb-202

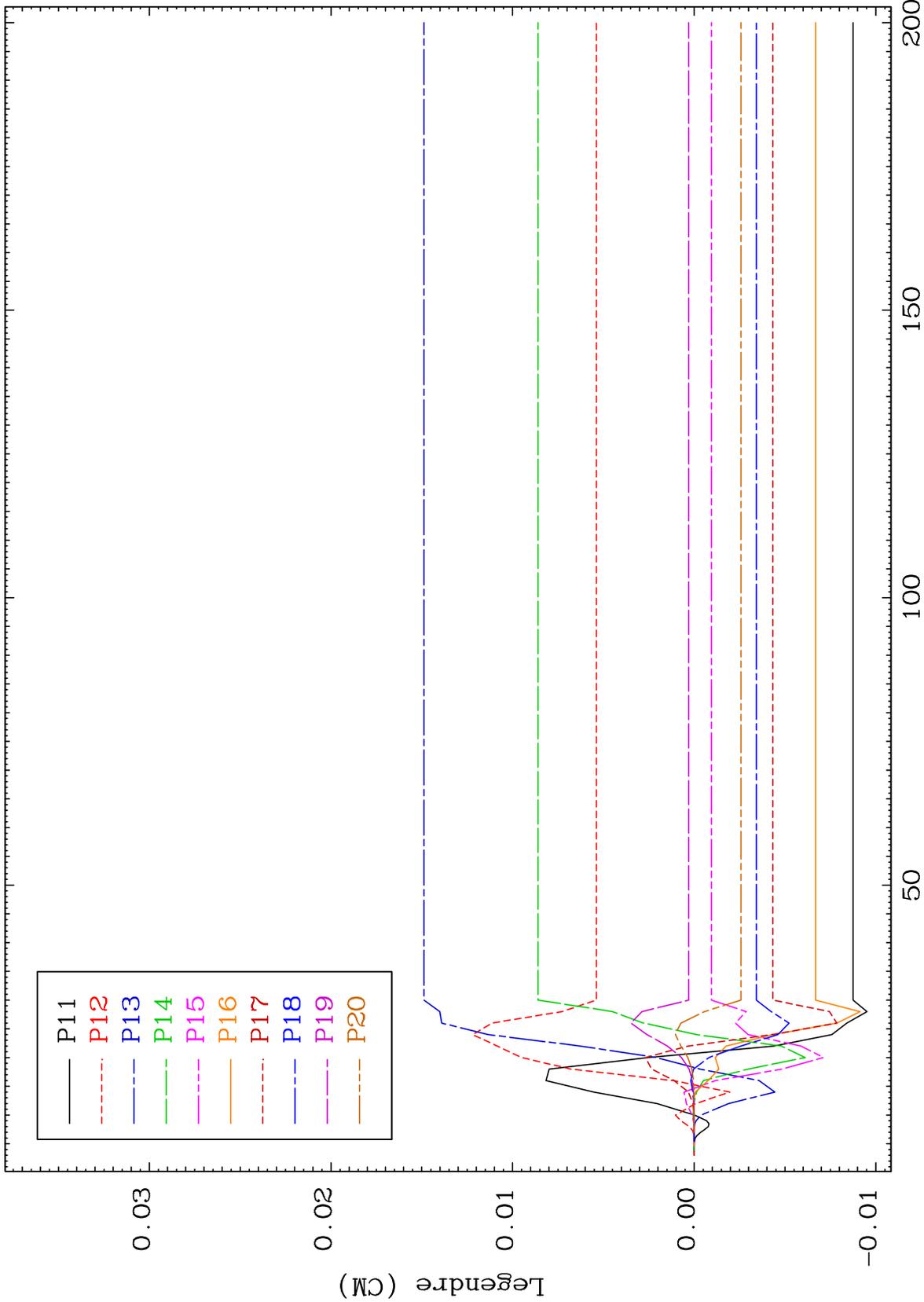




MAT 8219

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

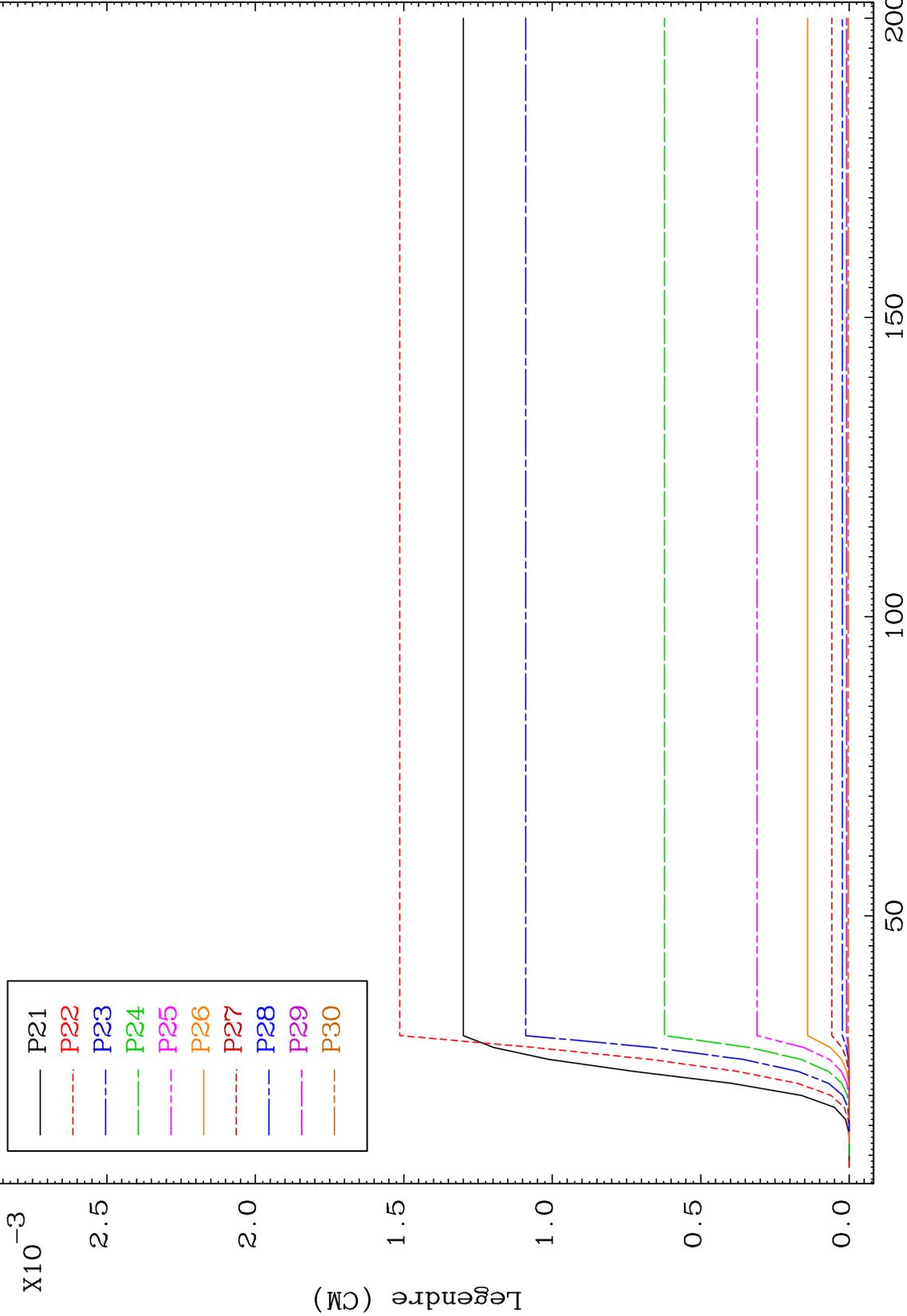
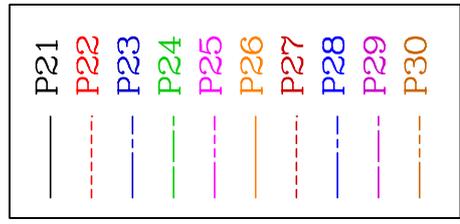
82-Pb-202



MAT 8219

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

82-Pb-202



55

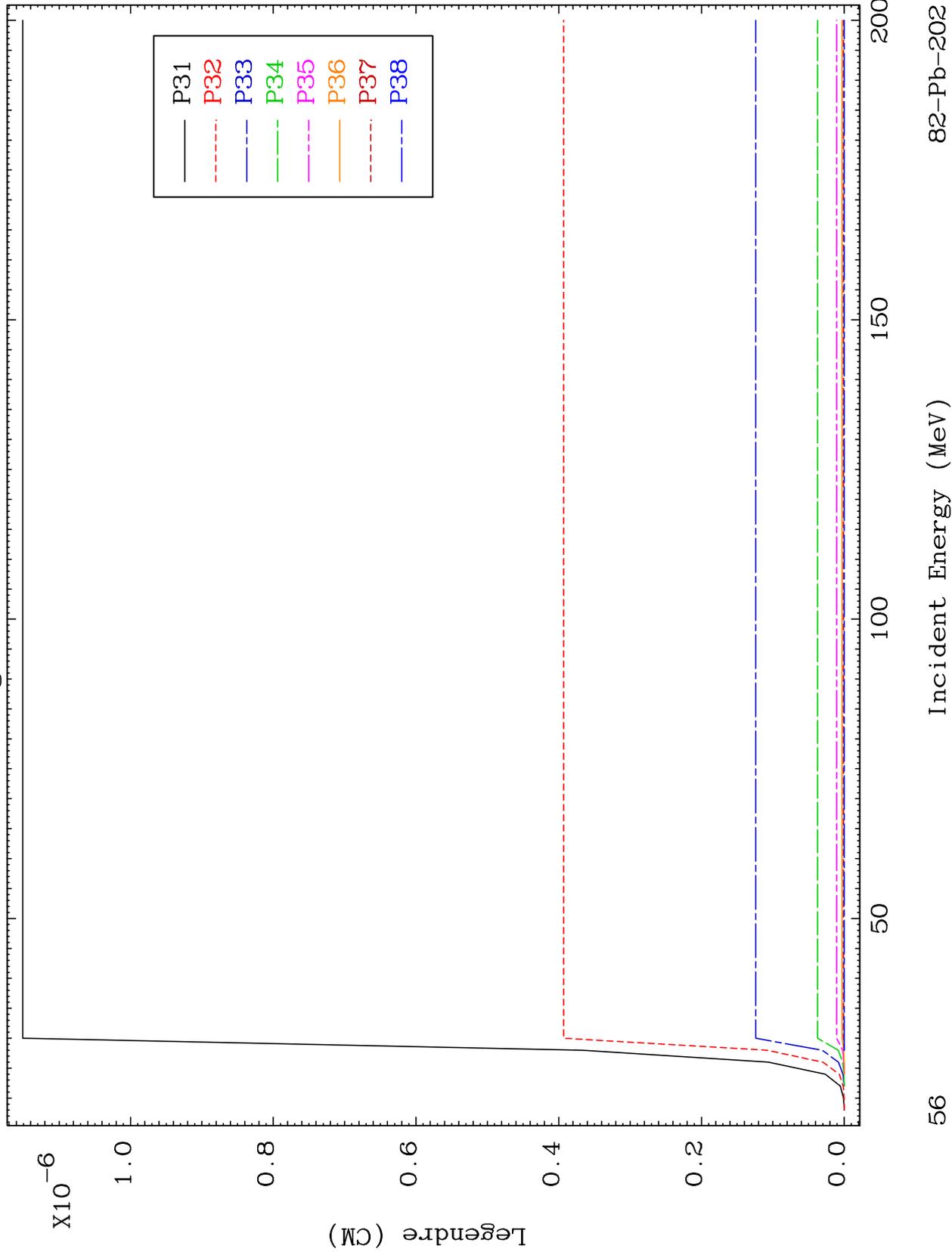
Incident Energy (MeV)

82-Pb-202

MAT 8219

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

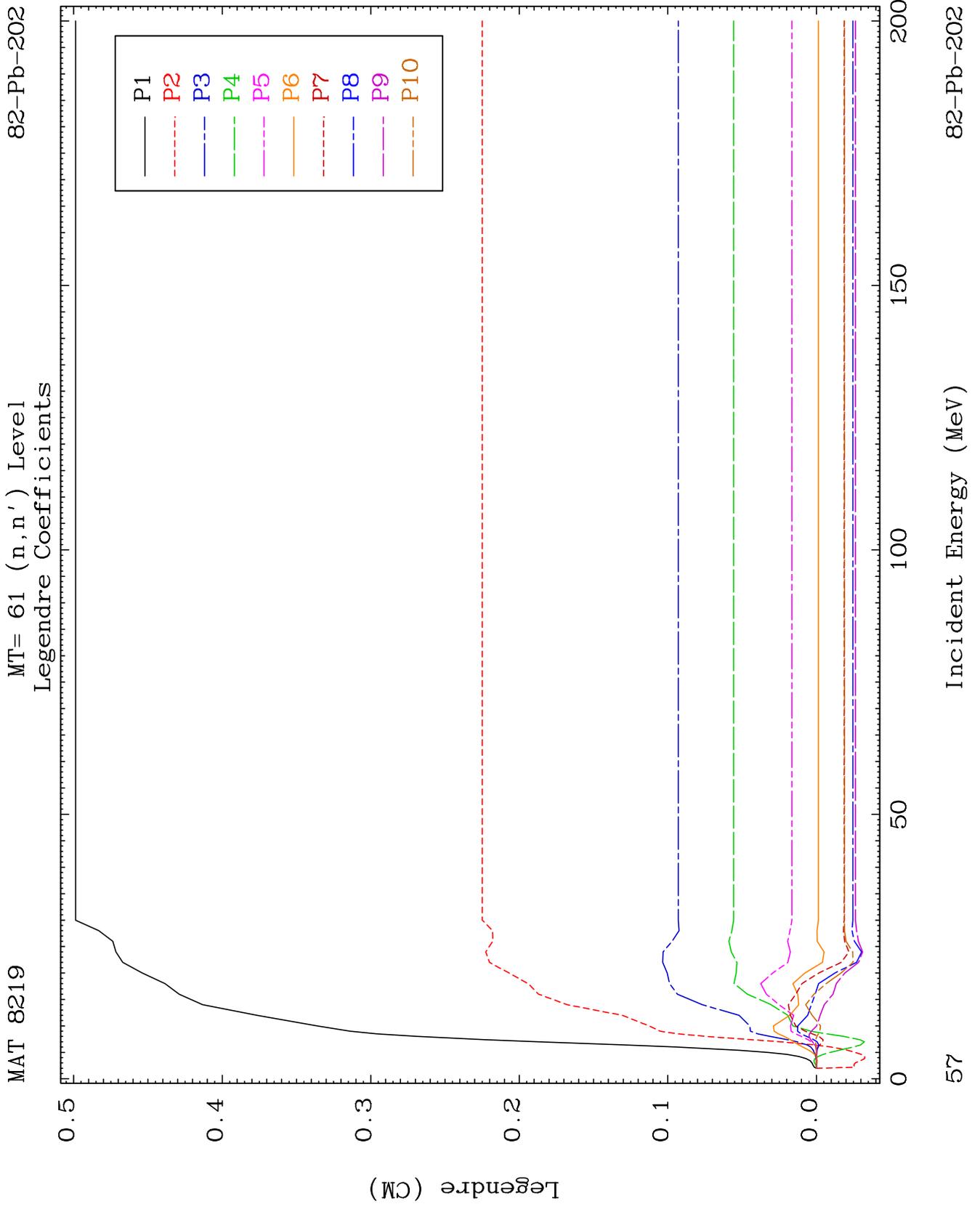
82-Pb-202



56

Incident Energy (MeV)

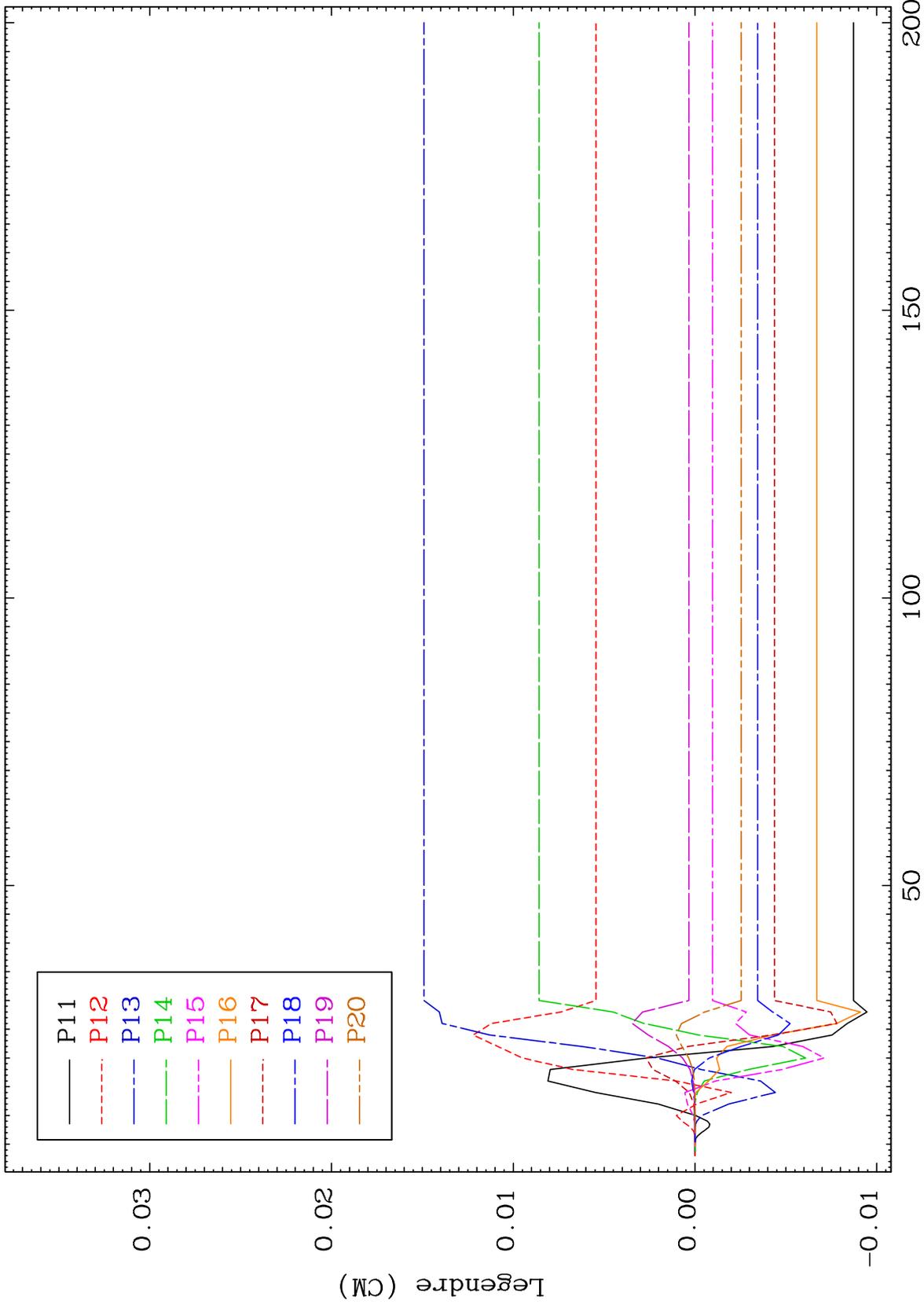
82-Pb-202



MAT 8219

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

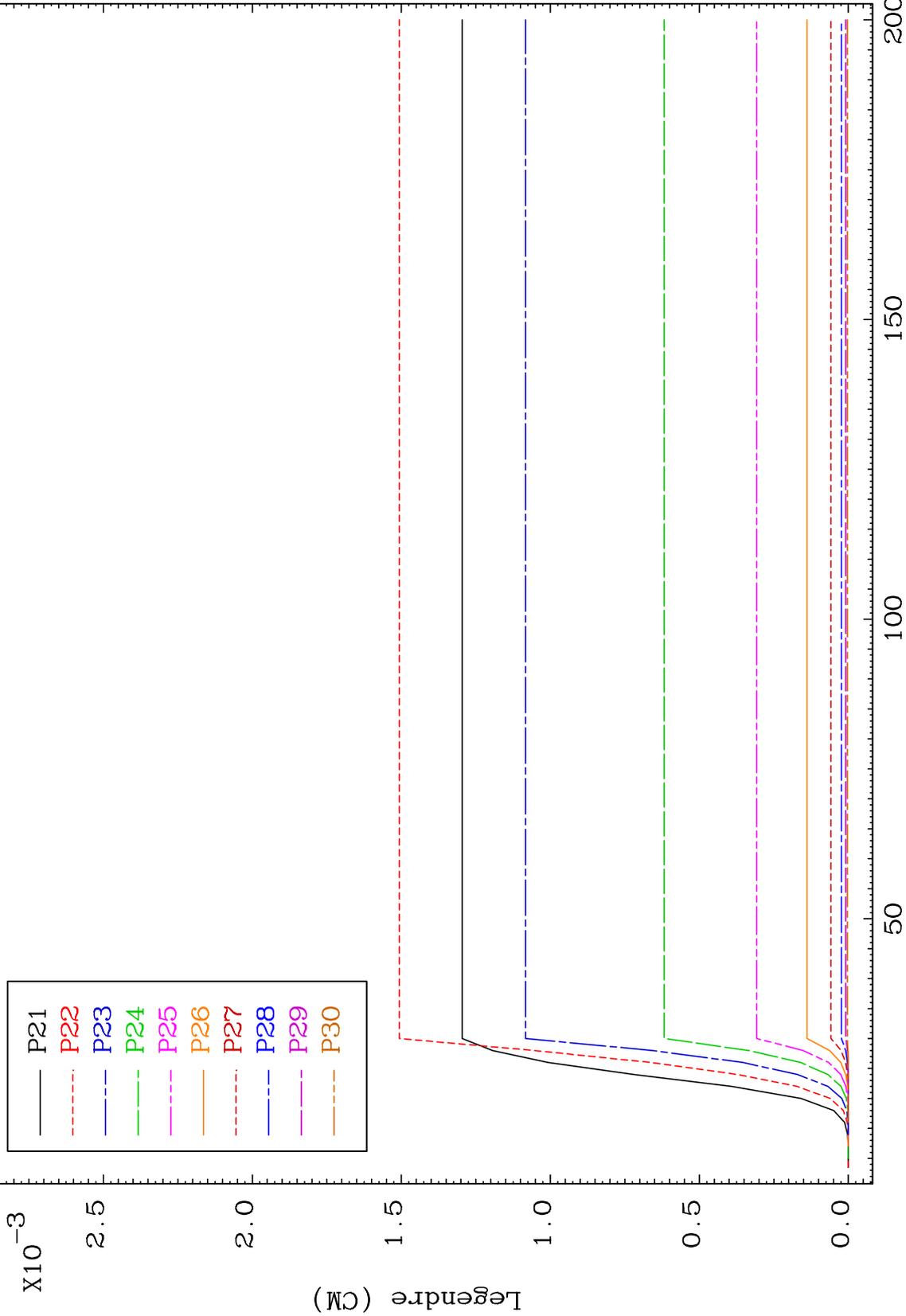
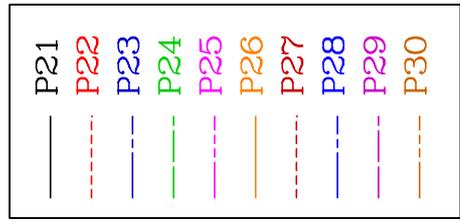
82-Pb-202



58

Incident Energy (MeV)

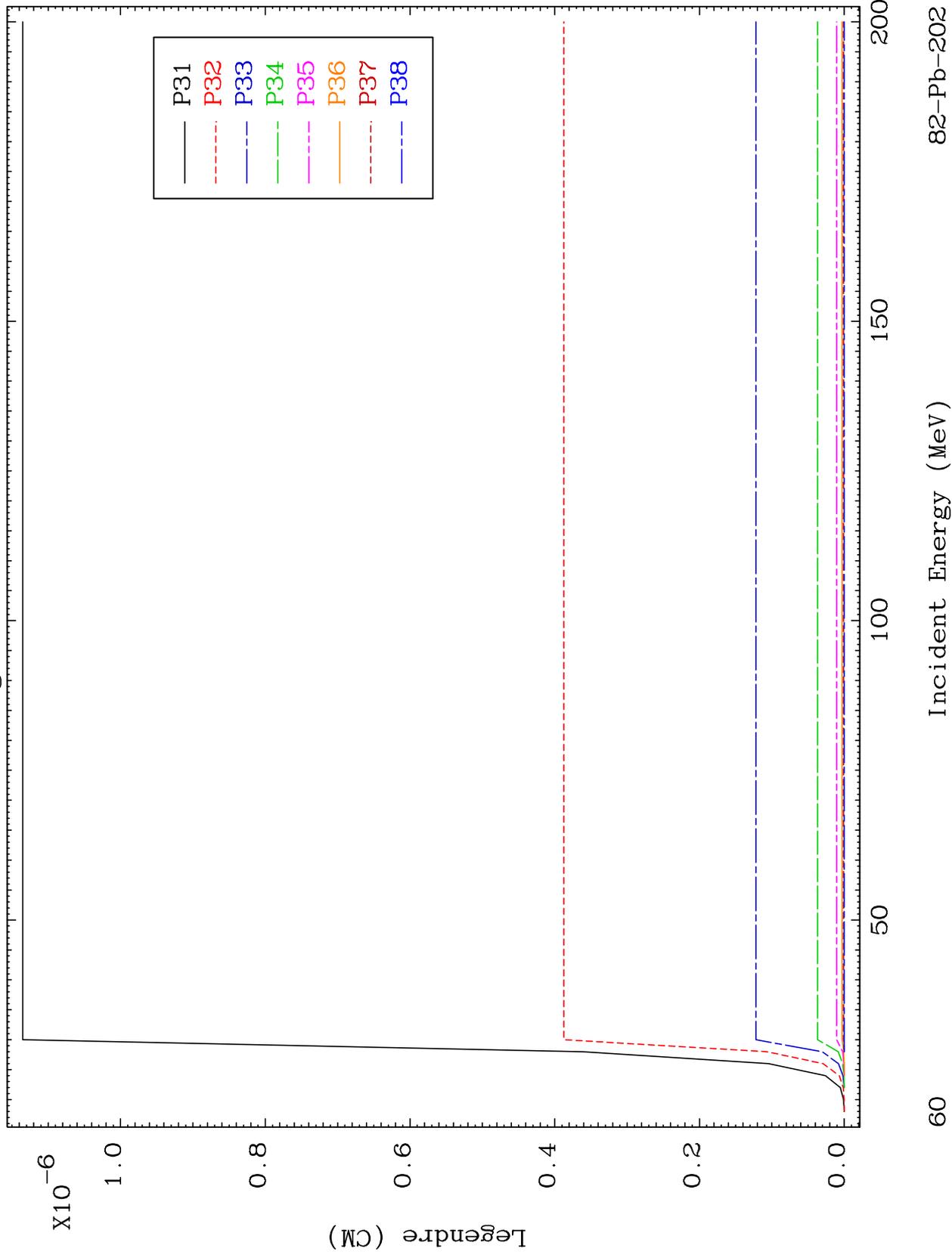
82-Pb-202



MAT 8219

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

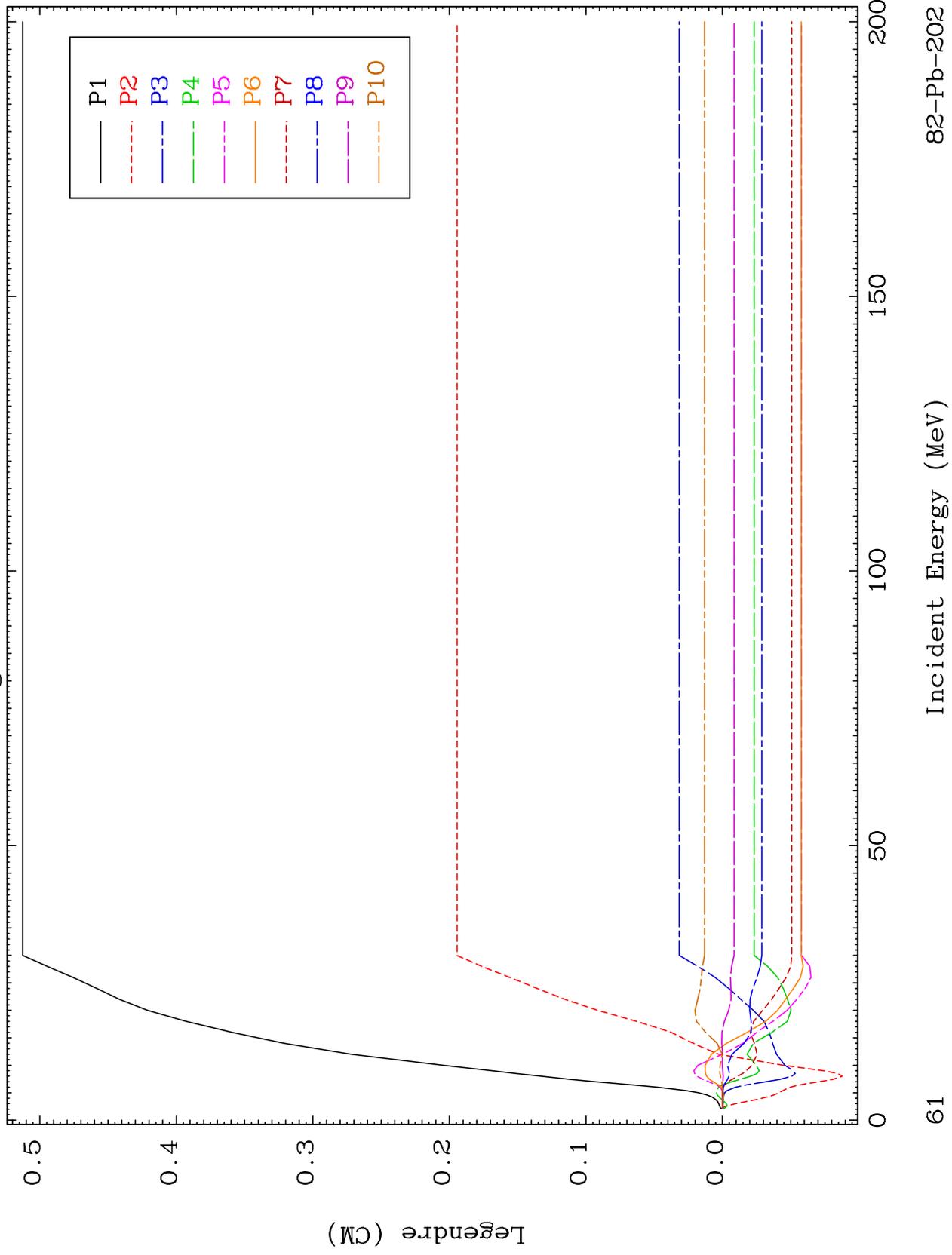
82-Pb-202



MAT 8219

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

82-Pb-202



61

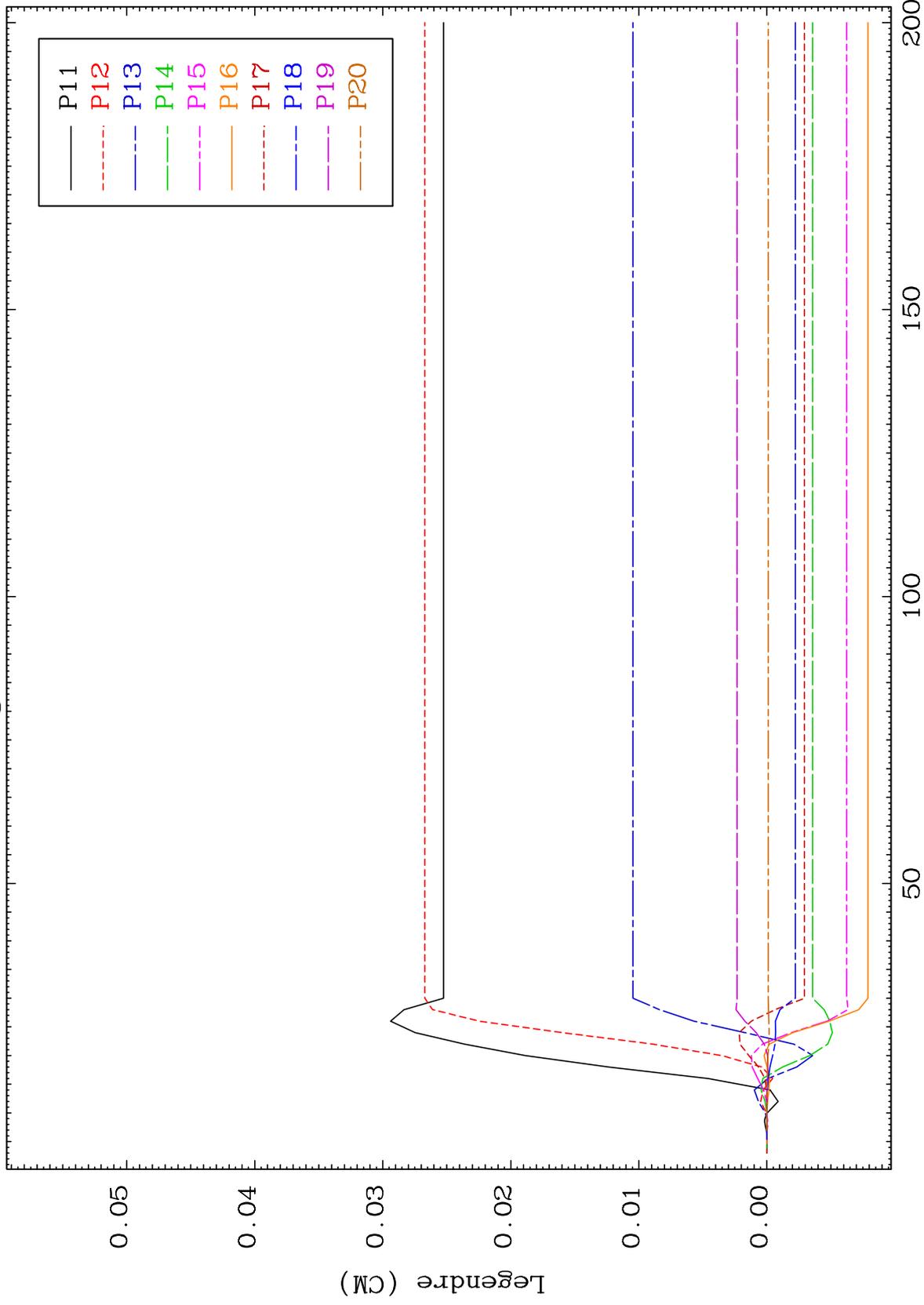
Incident Energy (MeV)

82-Pb-202

MAT 8219

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

82-Pb-202



62

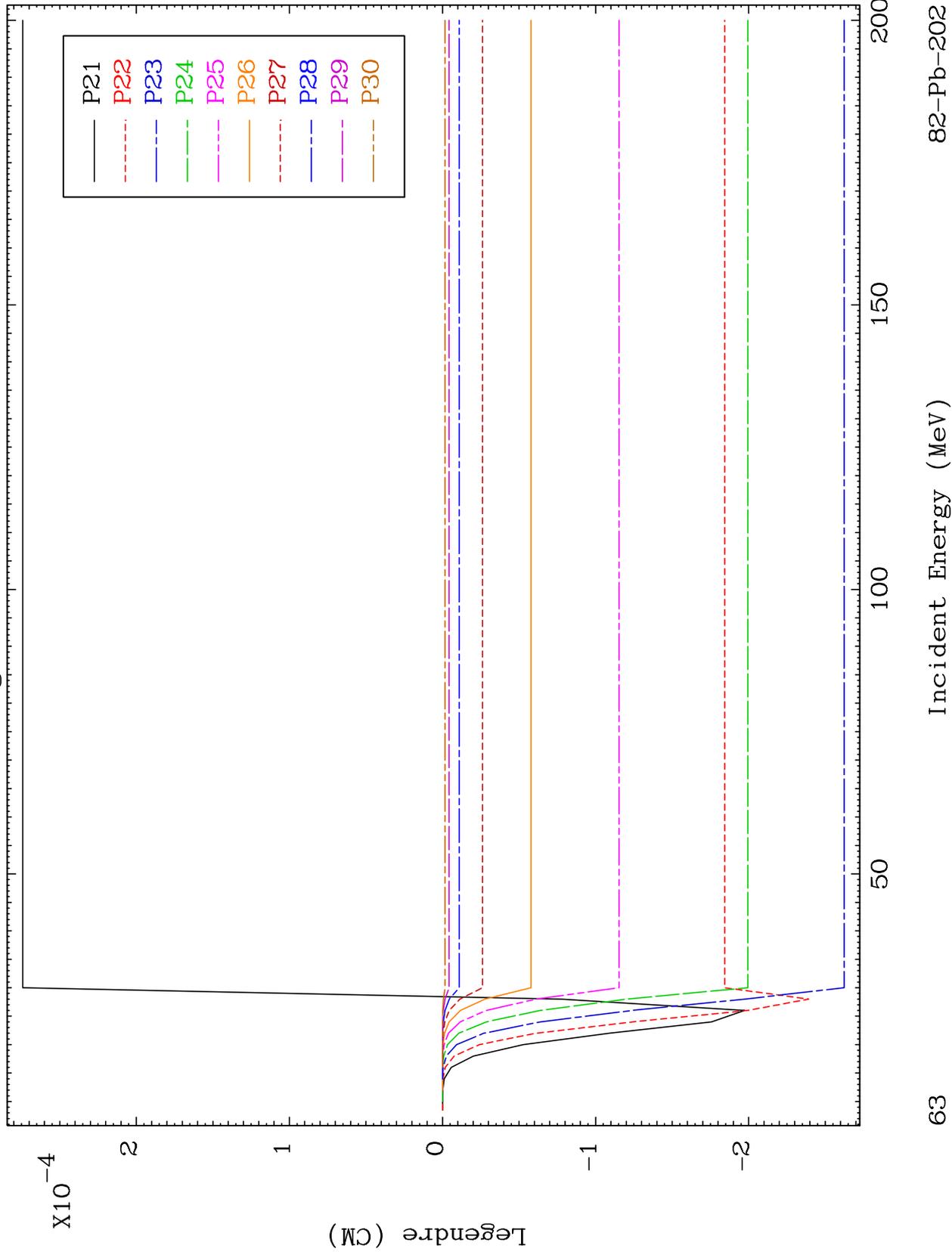
Incident Energy (MeV)

82-Pb-202

MAT 8219

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

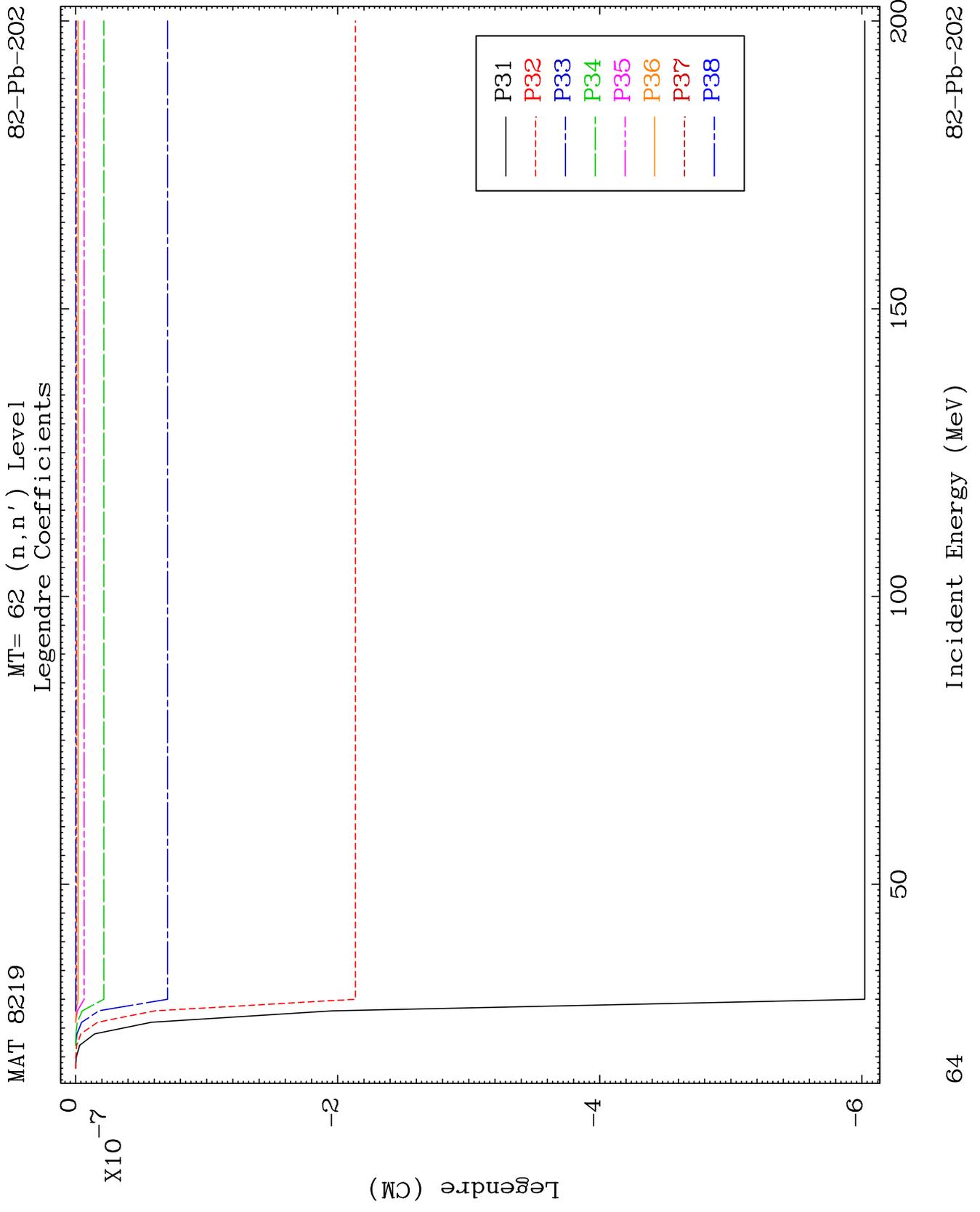
82-Pb-202

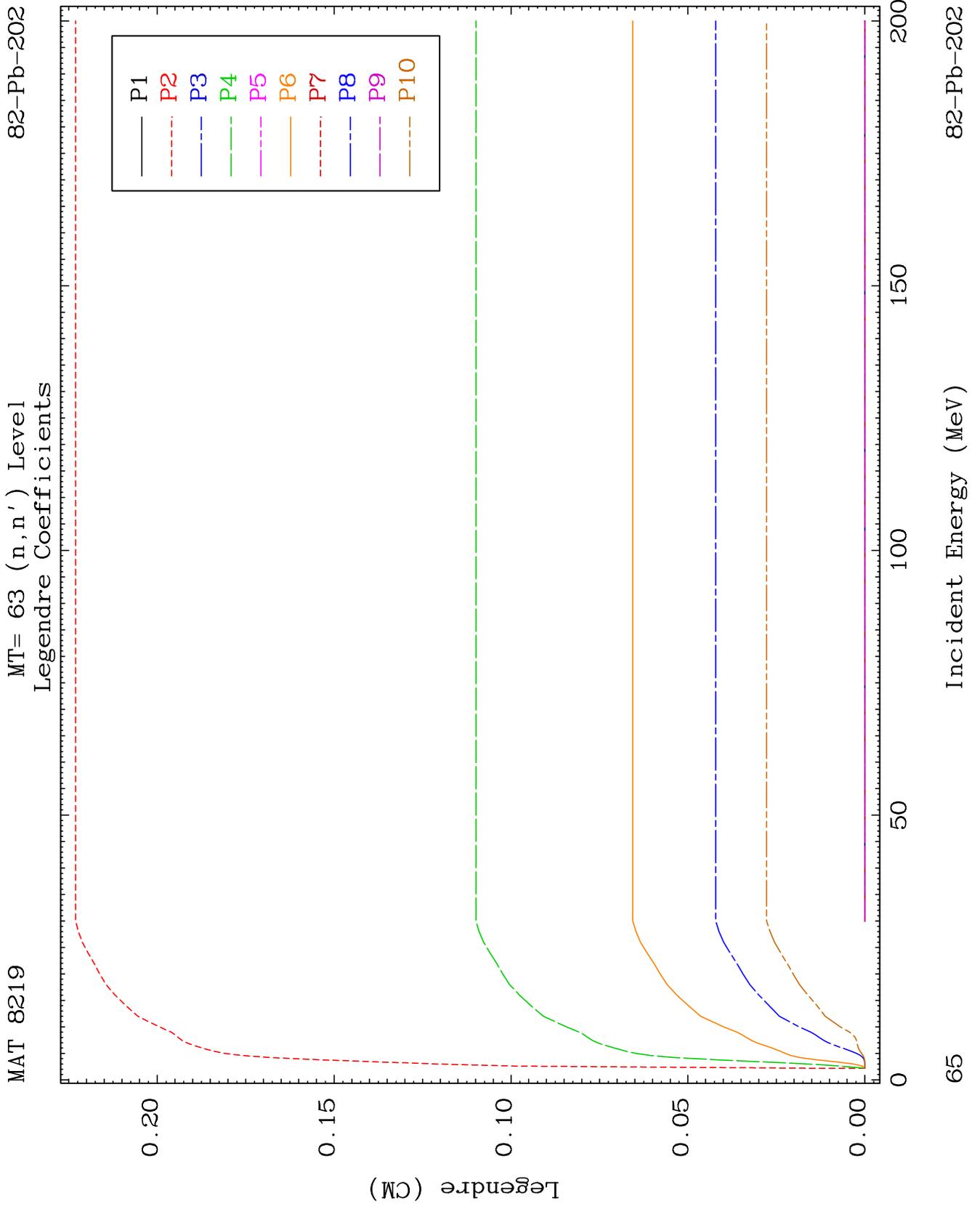


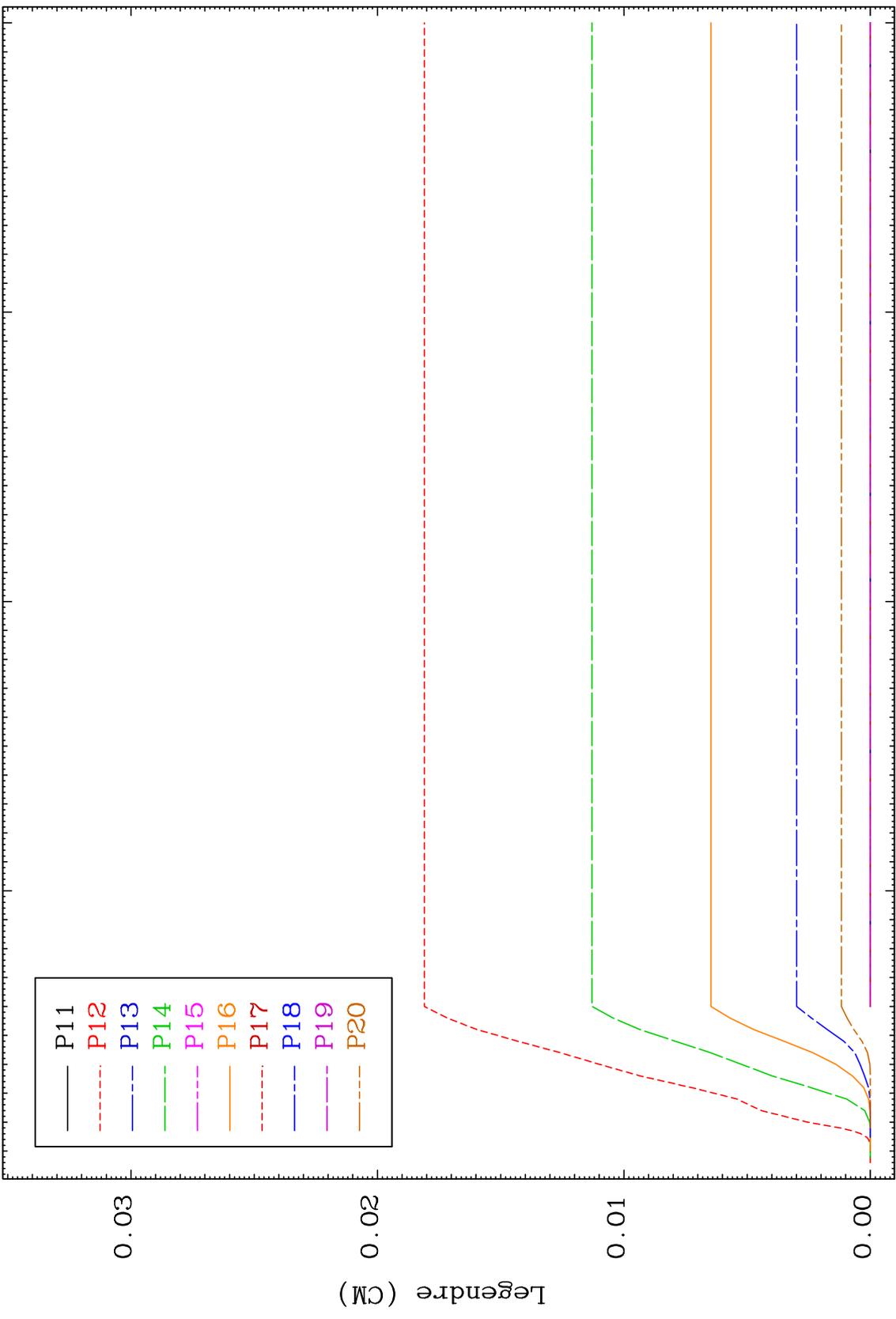
63

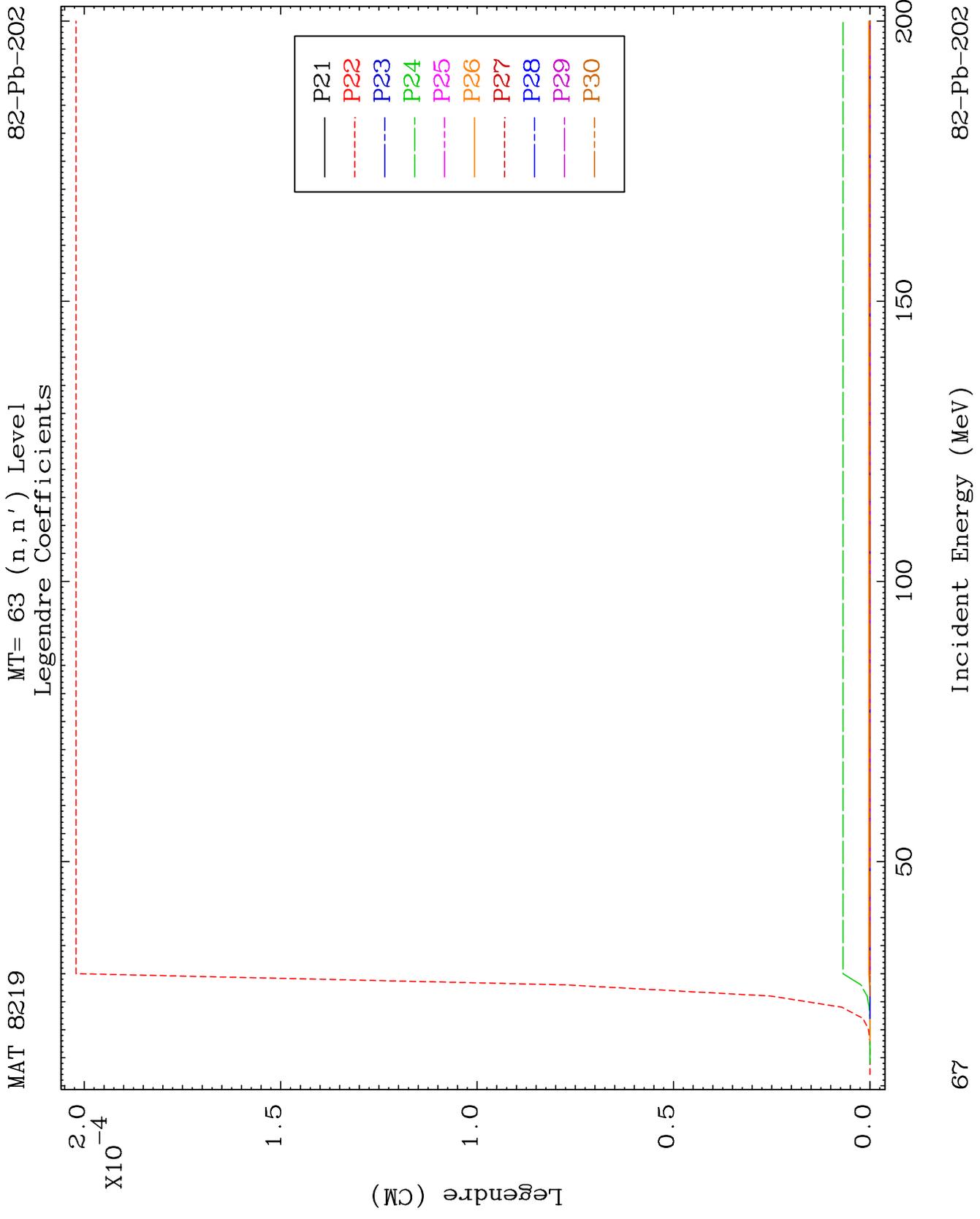
Incident Energy (MeV)

82-Pb-202





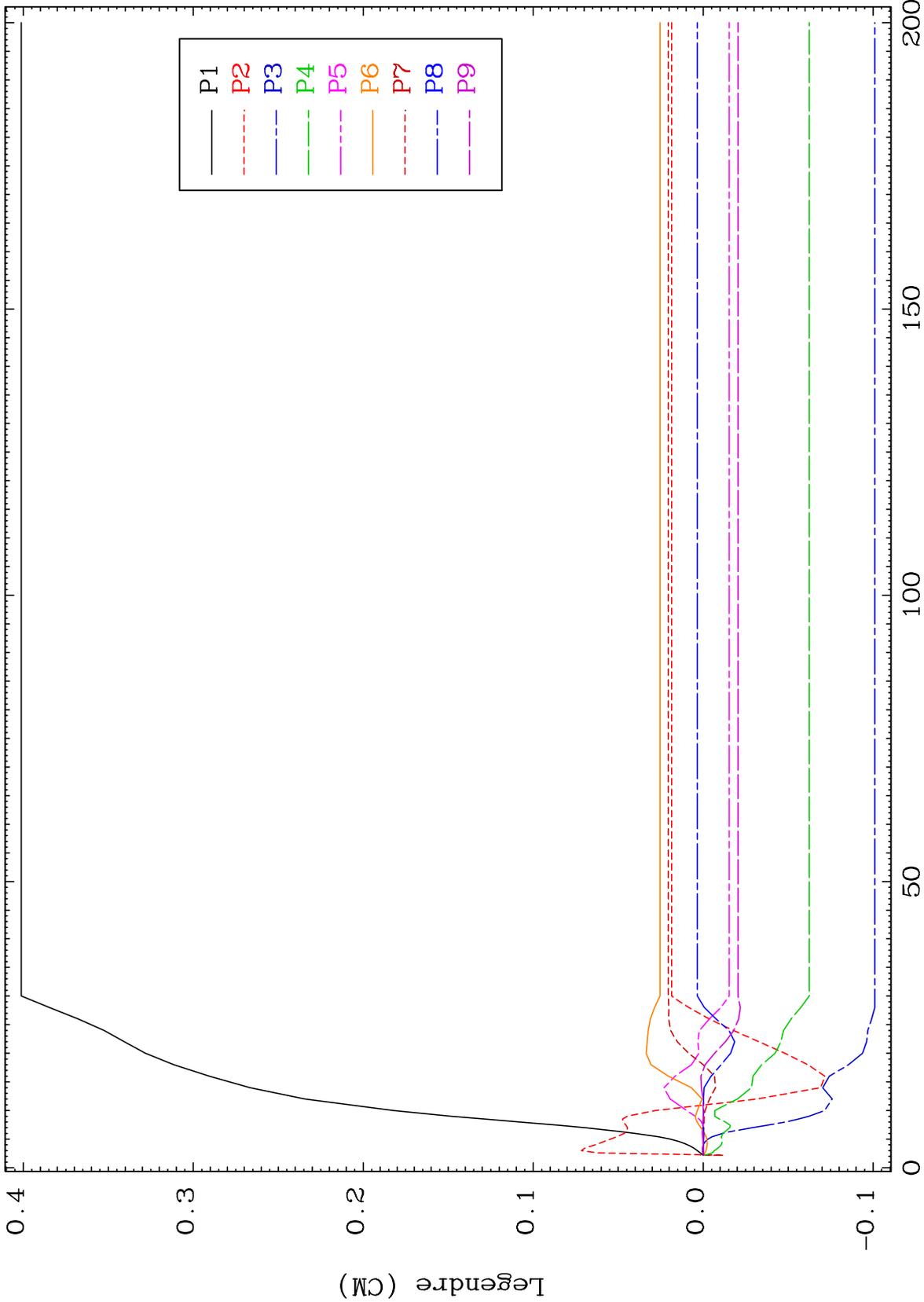




MAT 8219

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

82-Pb-202



68

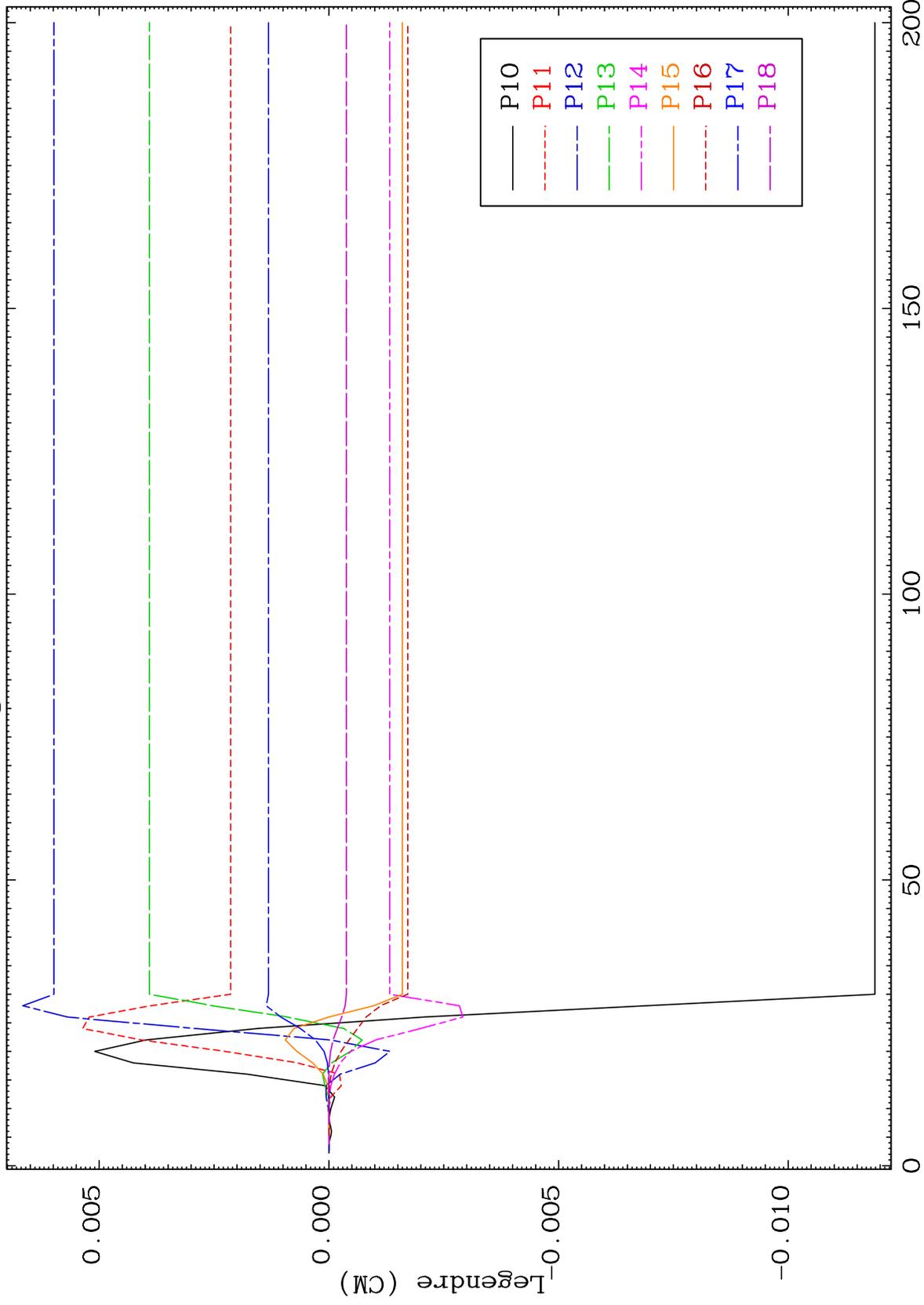
Incident Energy (MeV)

82-Pb-202

MAT 8219

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

82-Pb-202



69

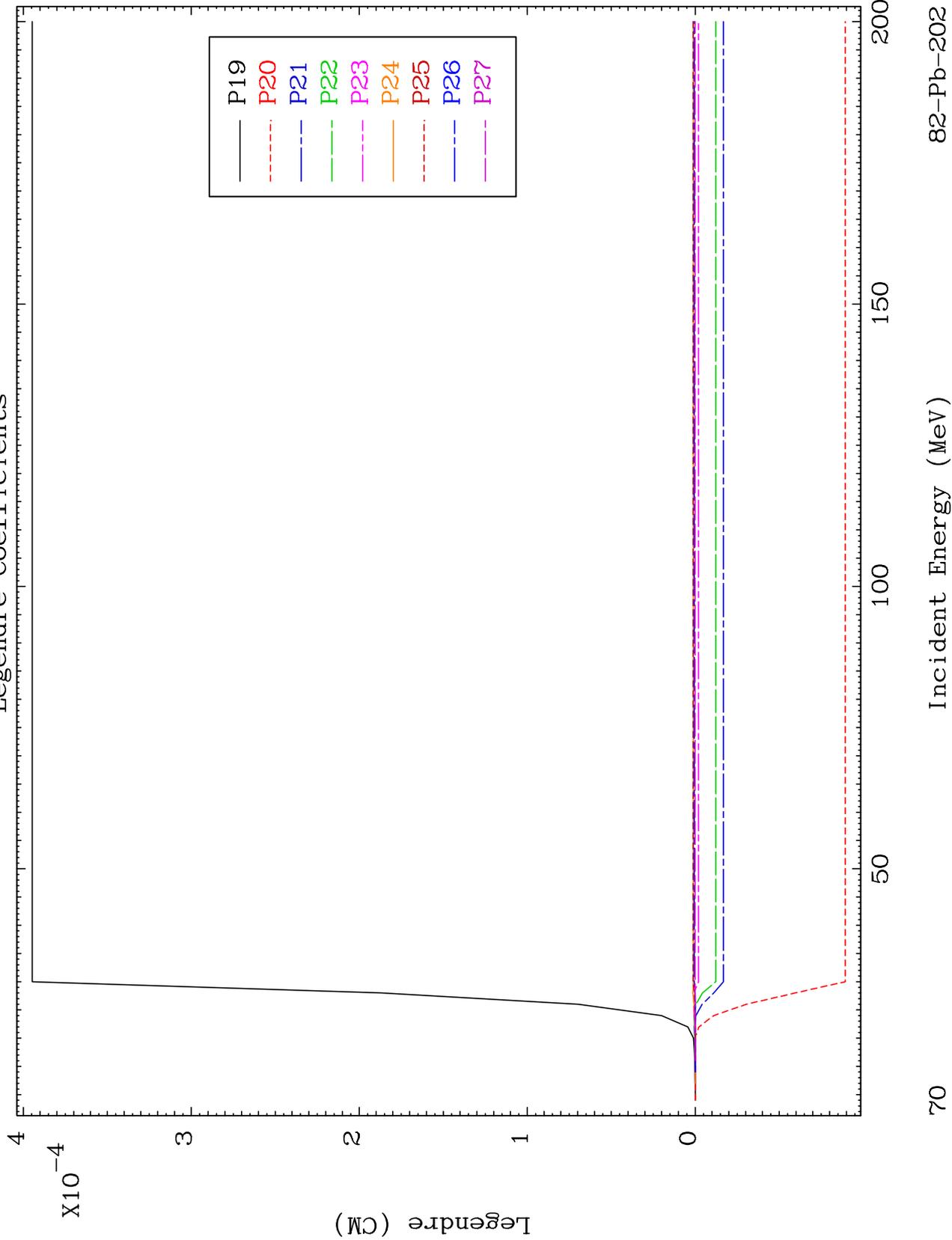
Incident Energy (MeV)

82-Pb-202

MAT 8219

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

82-Pb-202



70

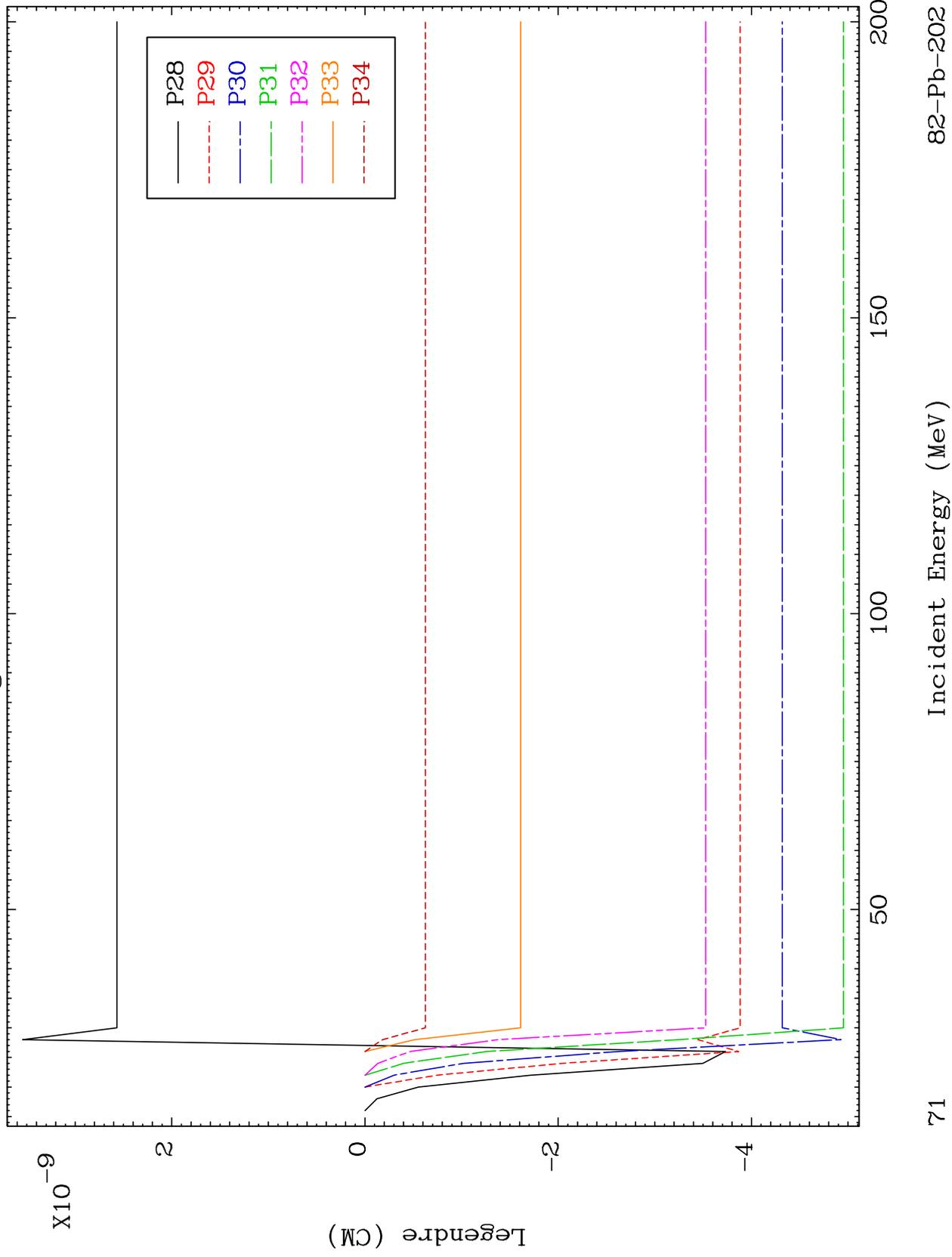
Incident Energy (MeV)

82-Pb-202

MAT 8219

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

82-Pb-202



71

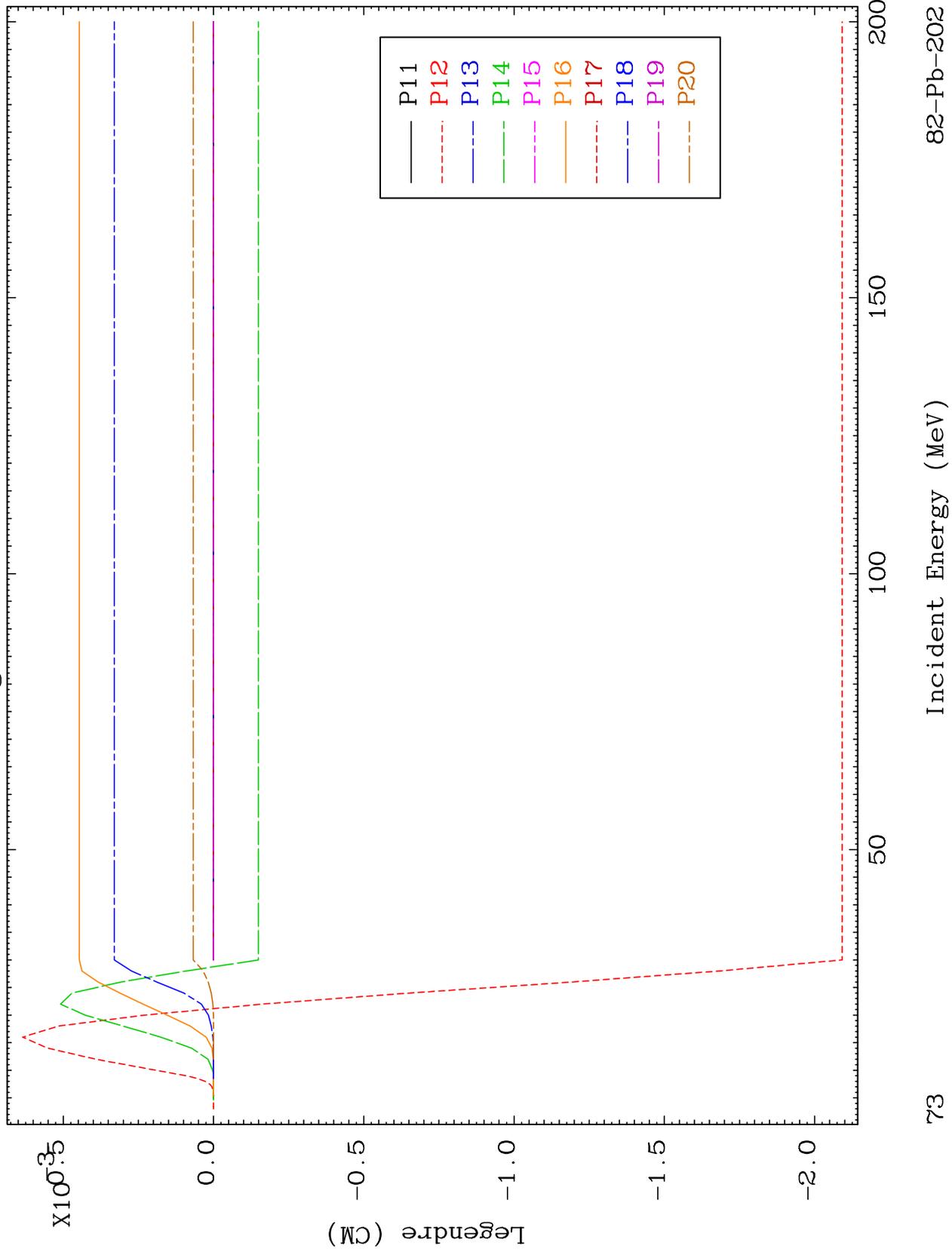
82-Pb-202



MAT 8219

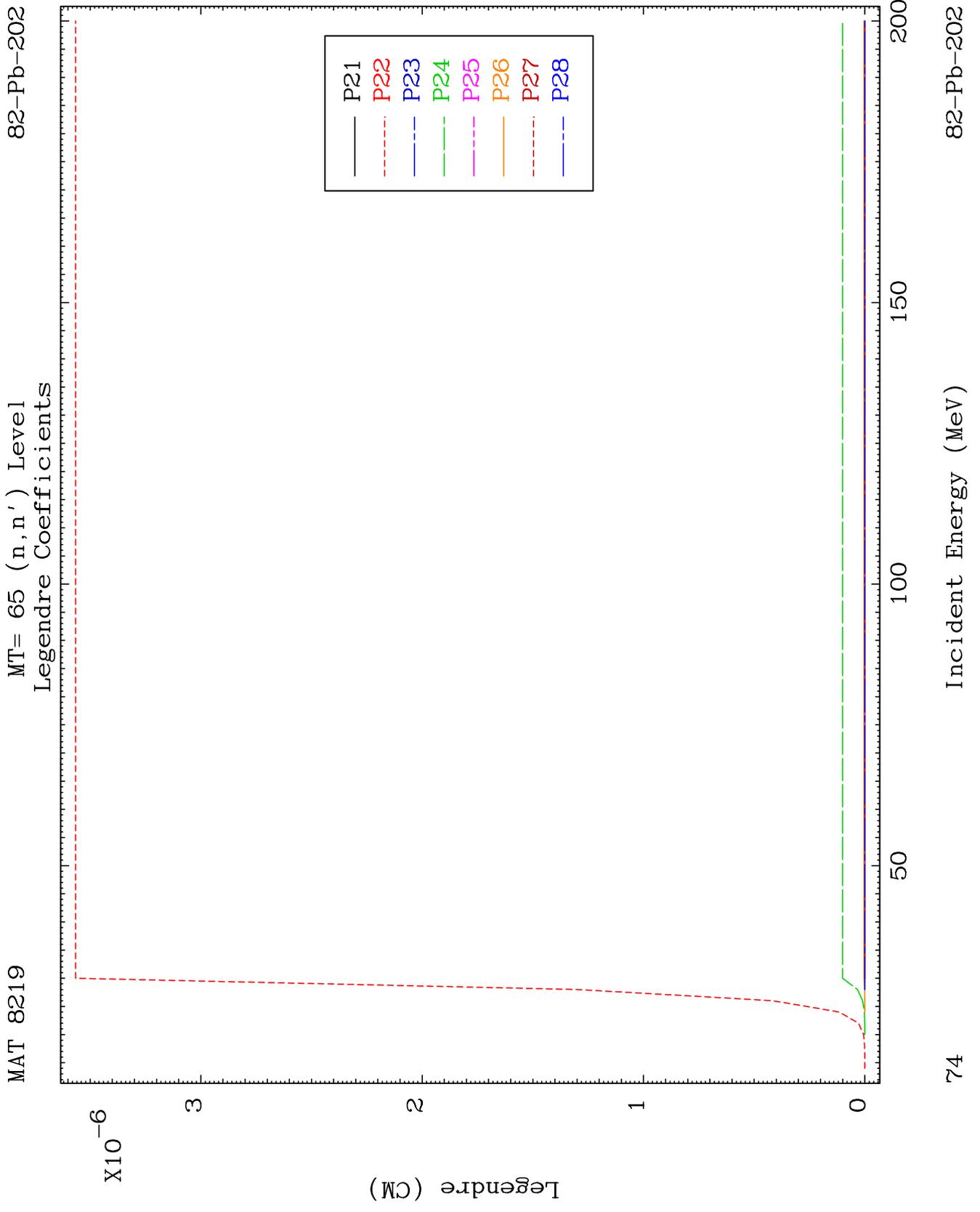
82-Pb-202

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



73

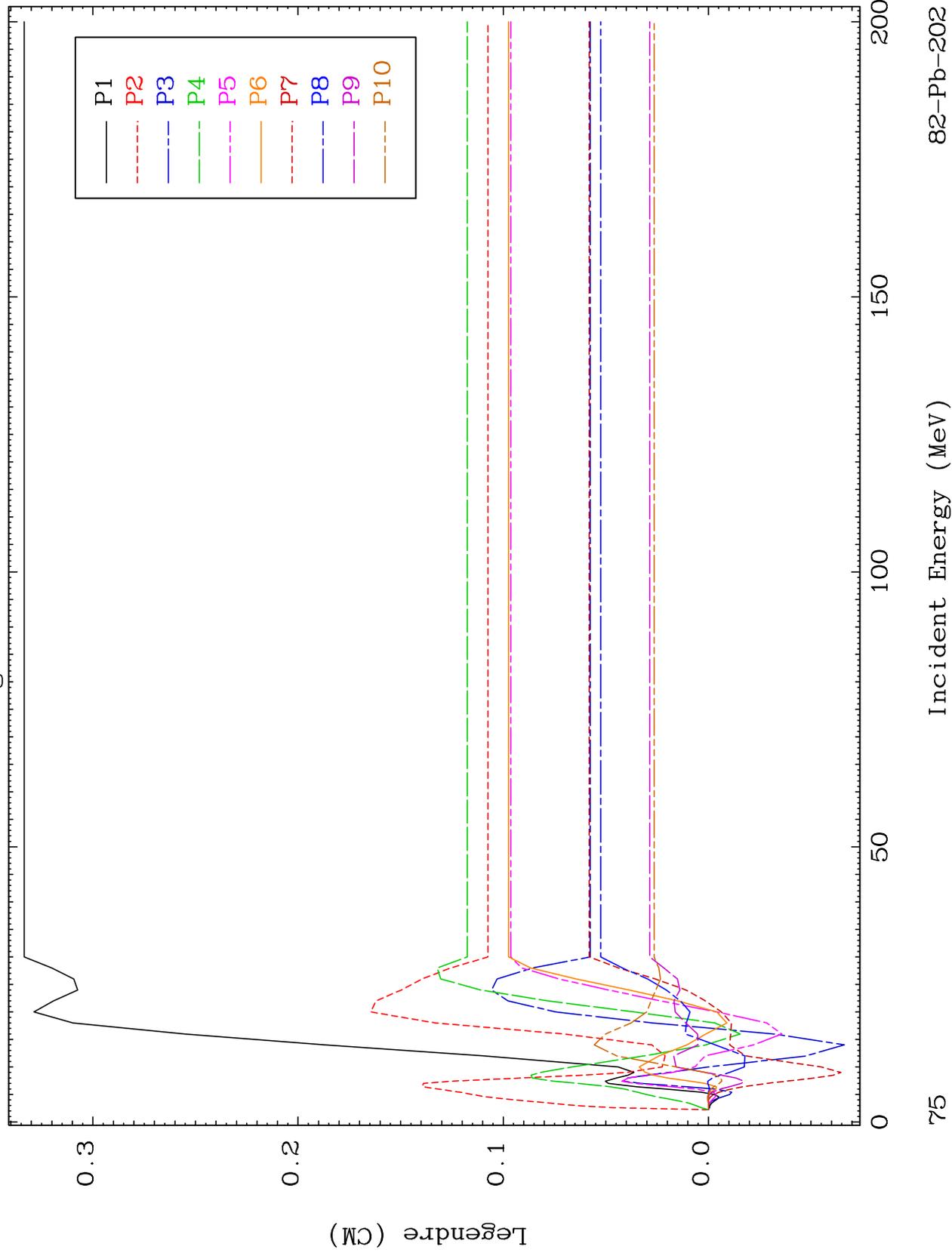
82-Pb-202



MAT 8219

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

82-Pb-202



82-Pb-202

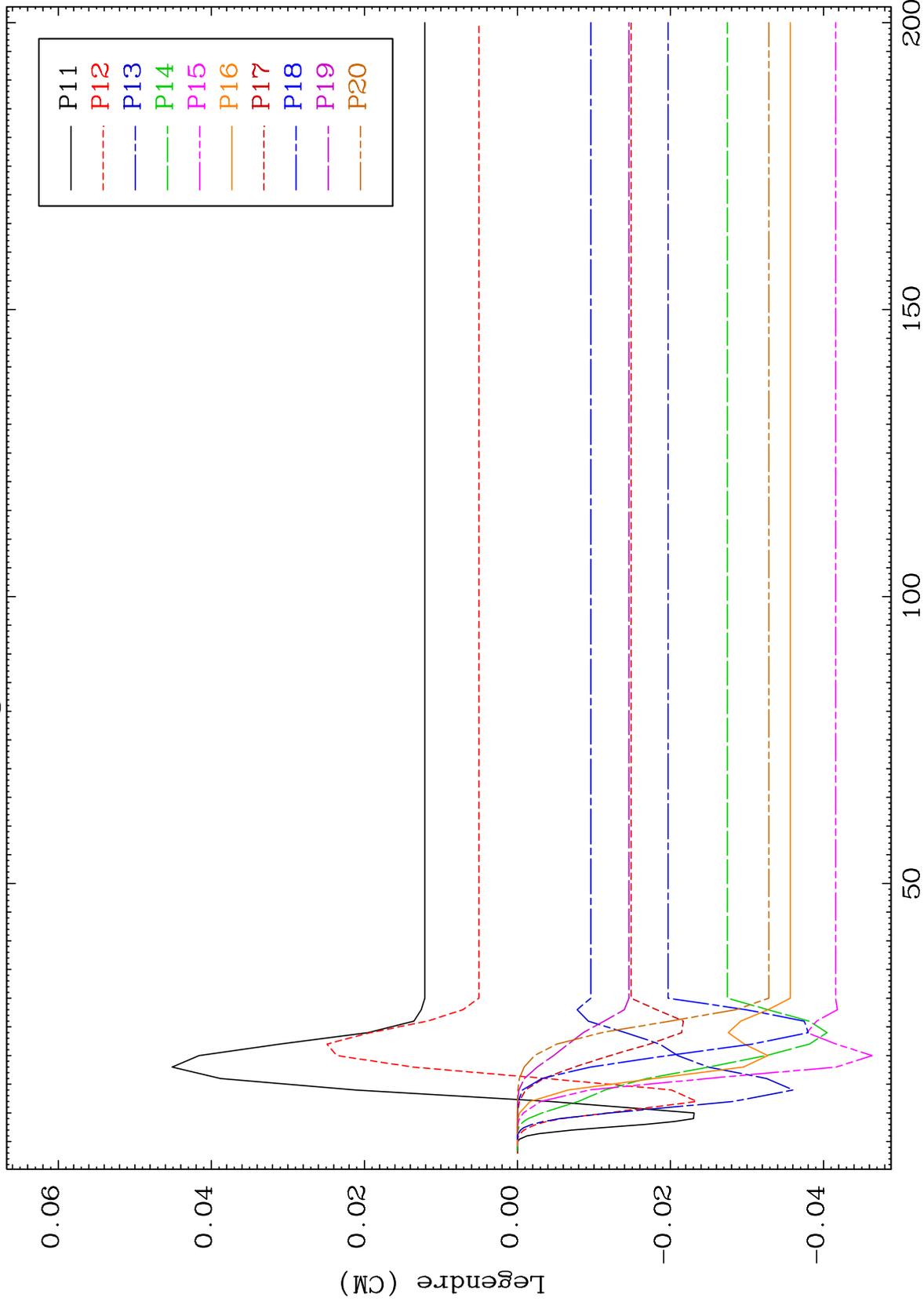
Incident Energy (MeV)

75

MAT 8219

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

82-Pb-202



76

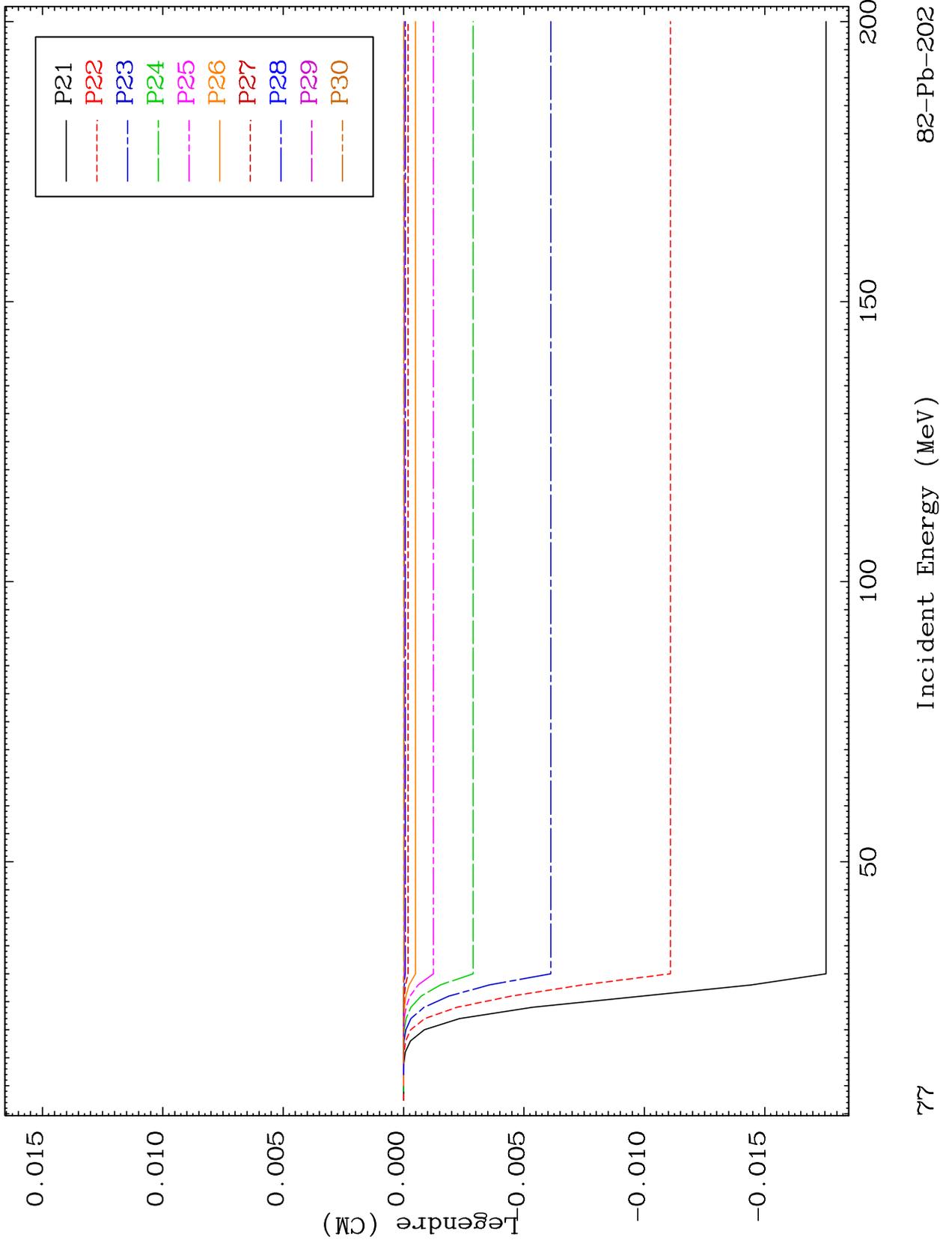
Incident Energy (MeV)

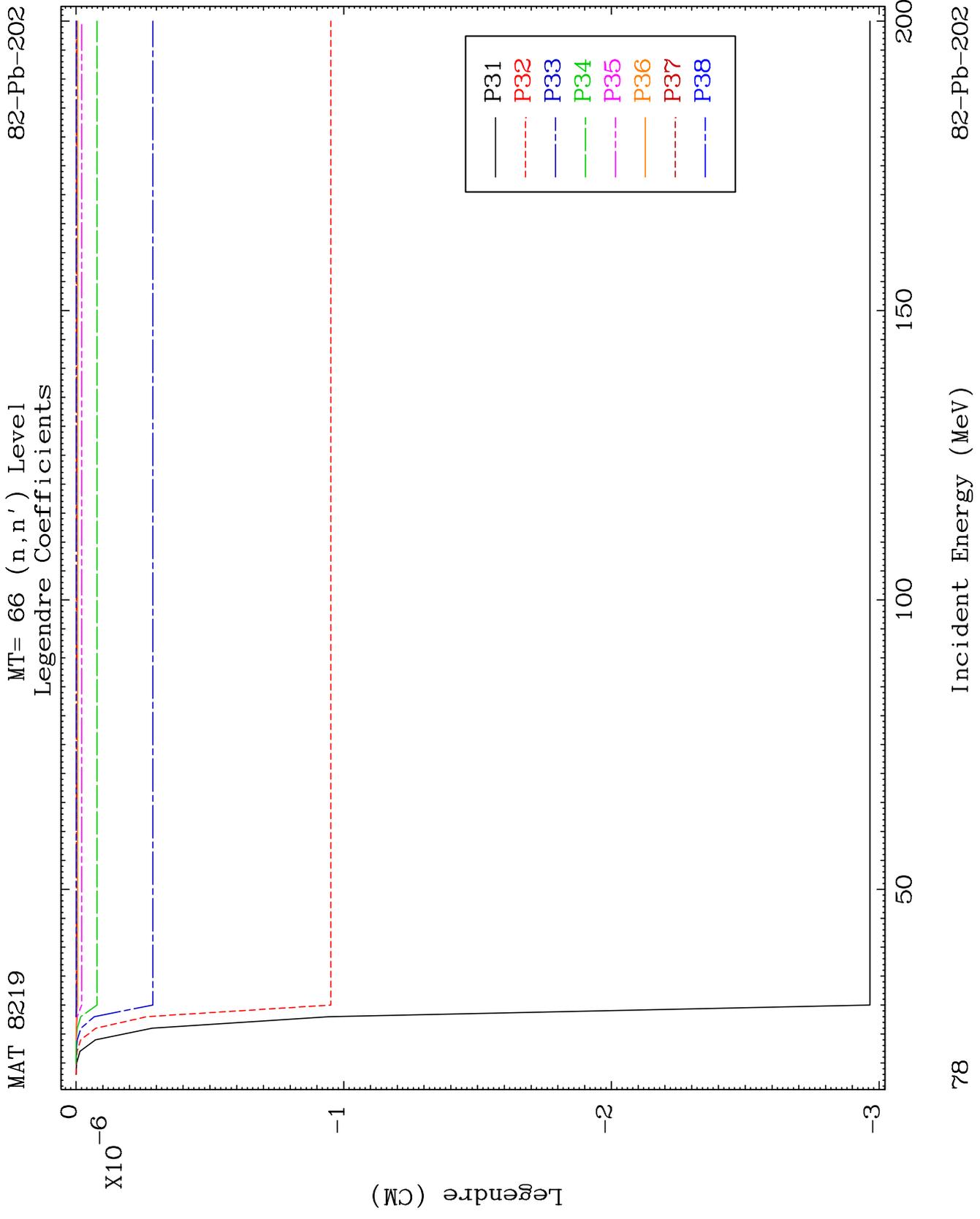
82-Pb-202

MAT 8219

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

82-Pb-202

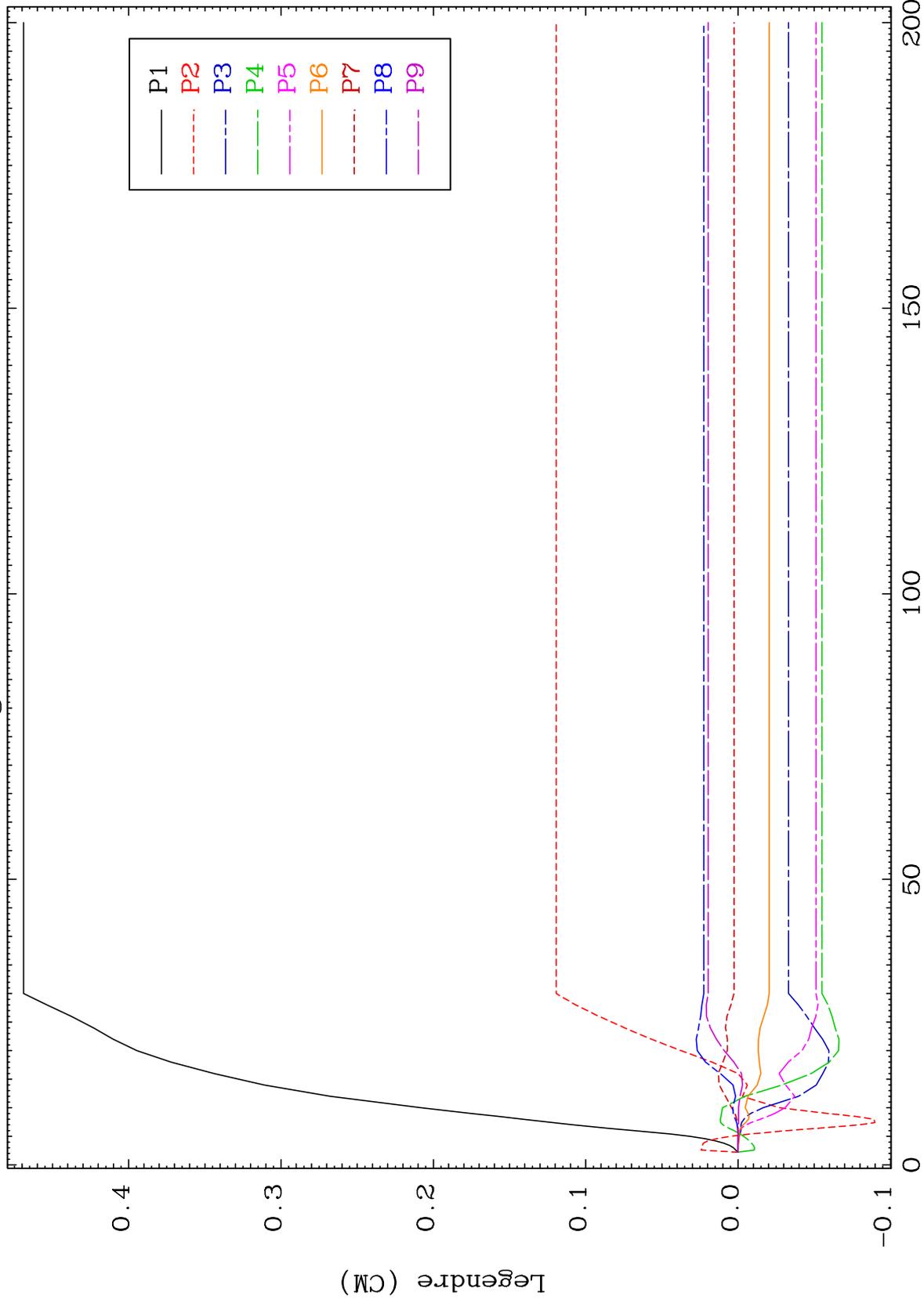




MAT 8219

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

82-Pb-202



79

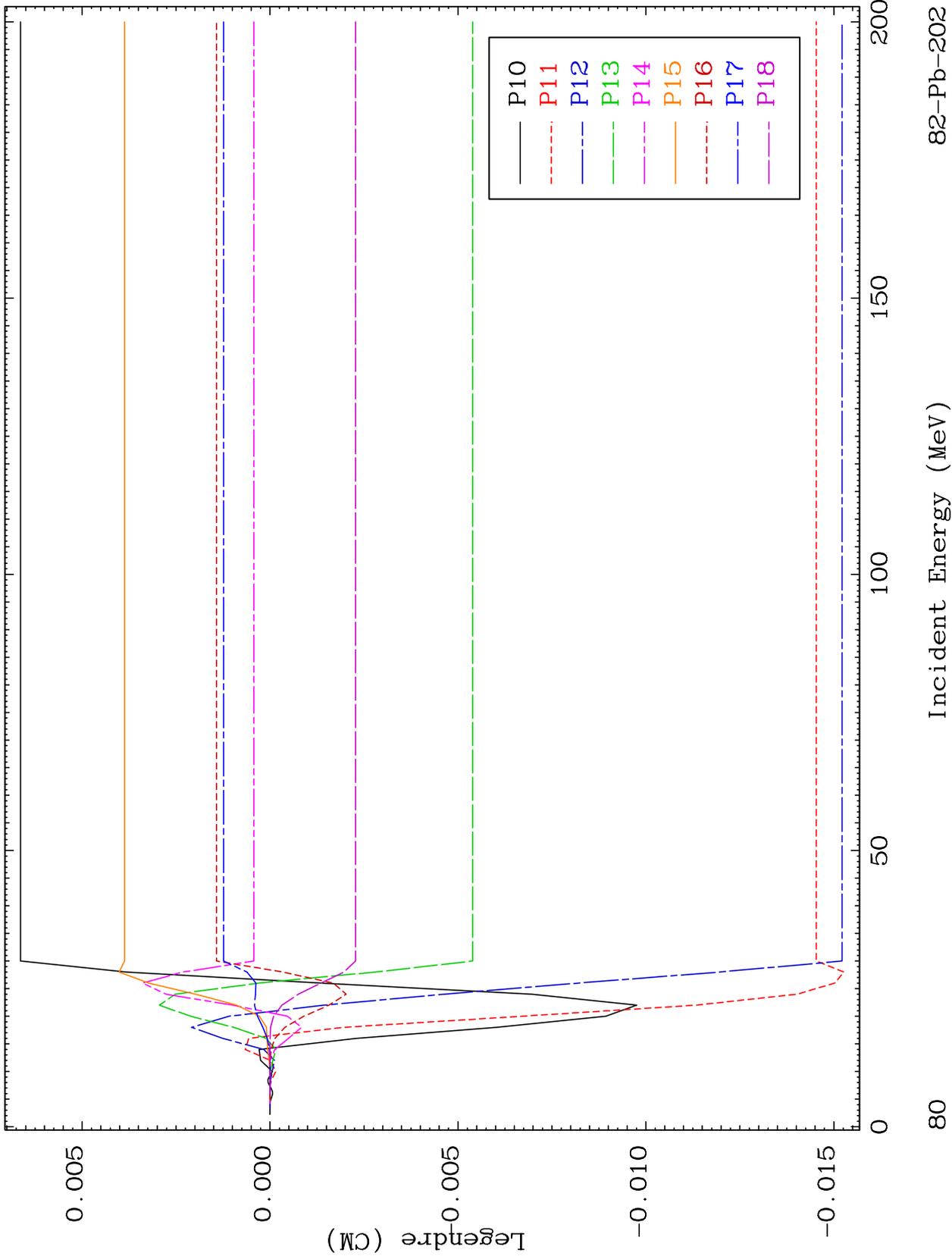
Incident Energy (MeV)

82-Pb-202

MAT 8219

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

82-Pb-202



82-Pb-202

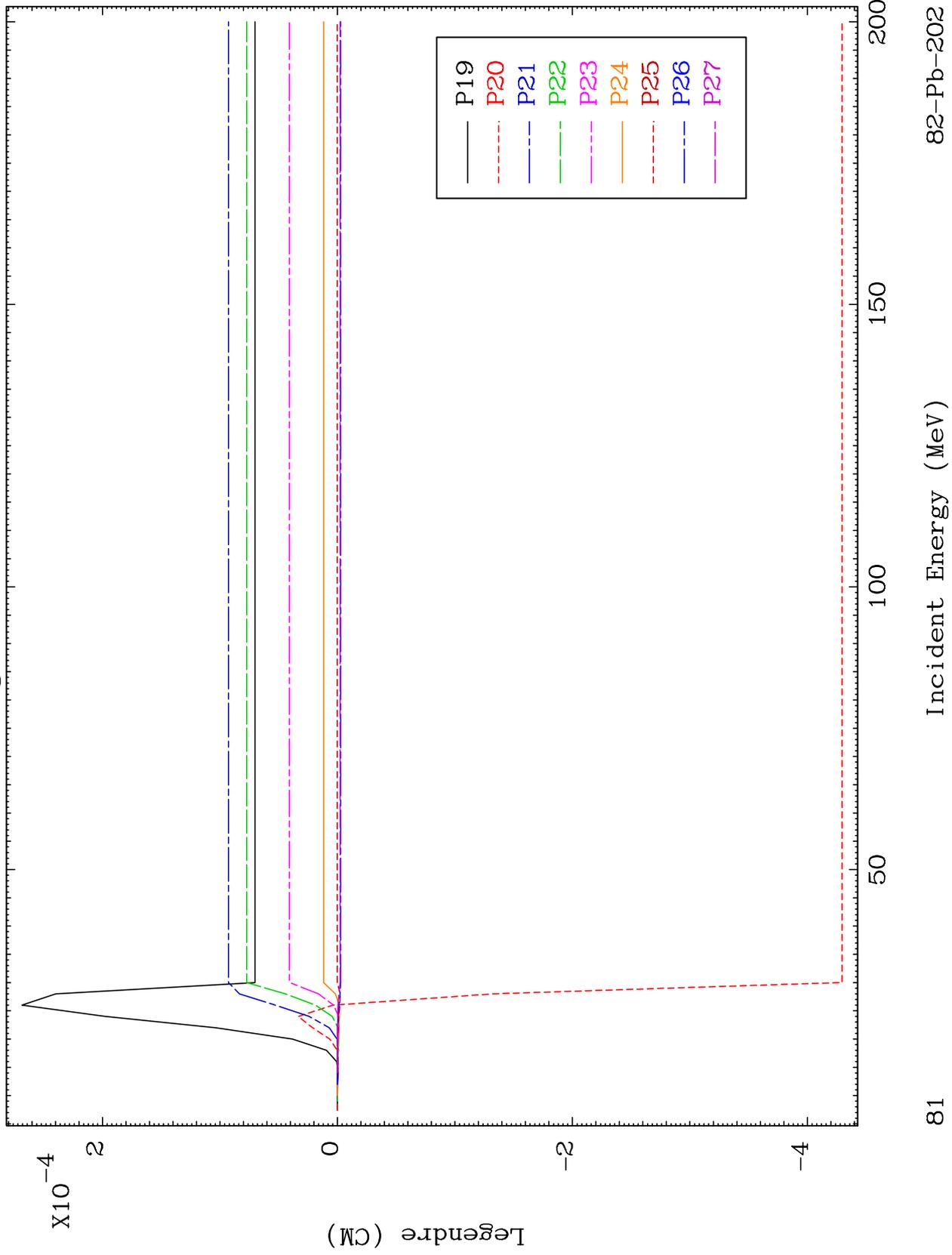
Incident Energy (MeV)

80

MAT 8219

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

82-Pb-202



81

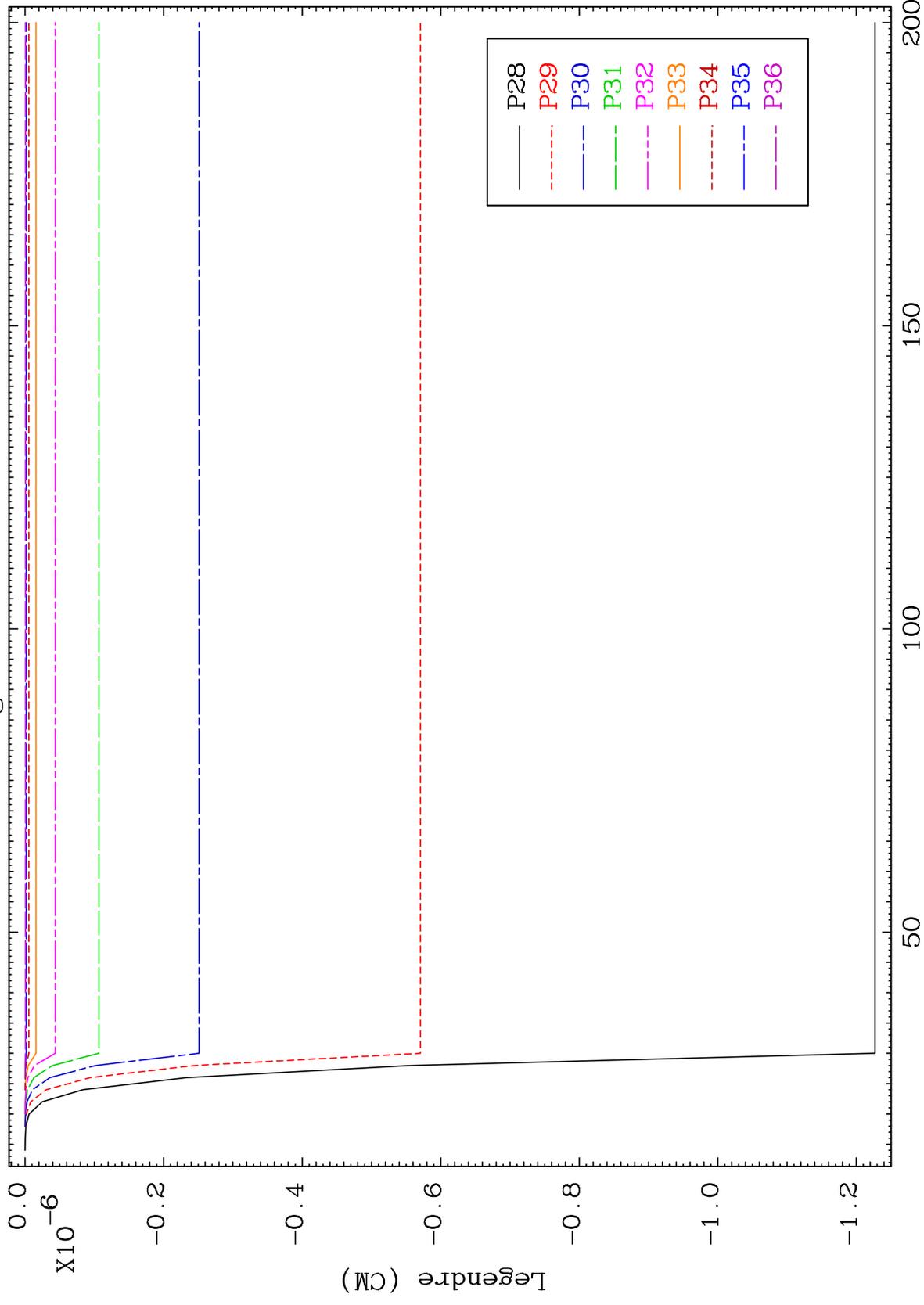
Incident Energy (MeV)

82-Pb-202

MAT 8219

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

82-Pb-202



82

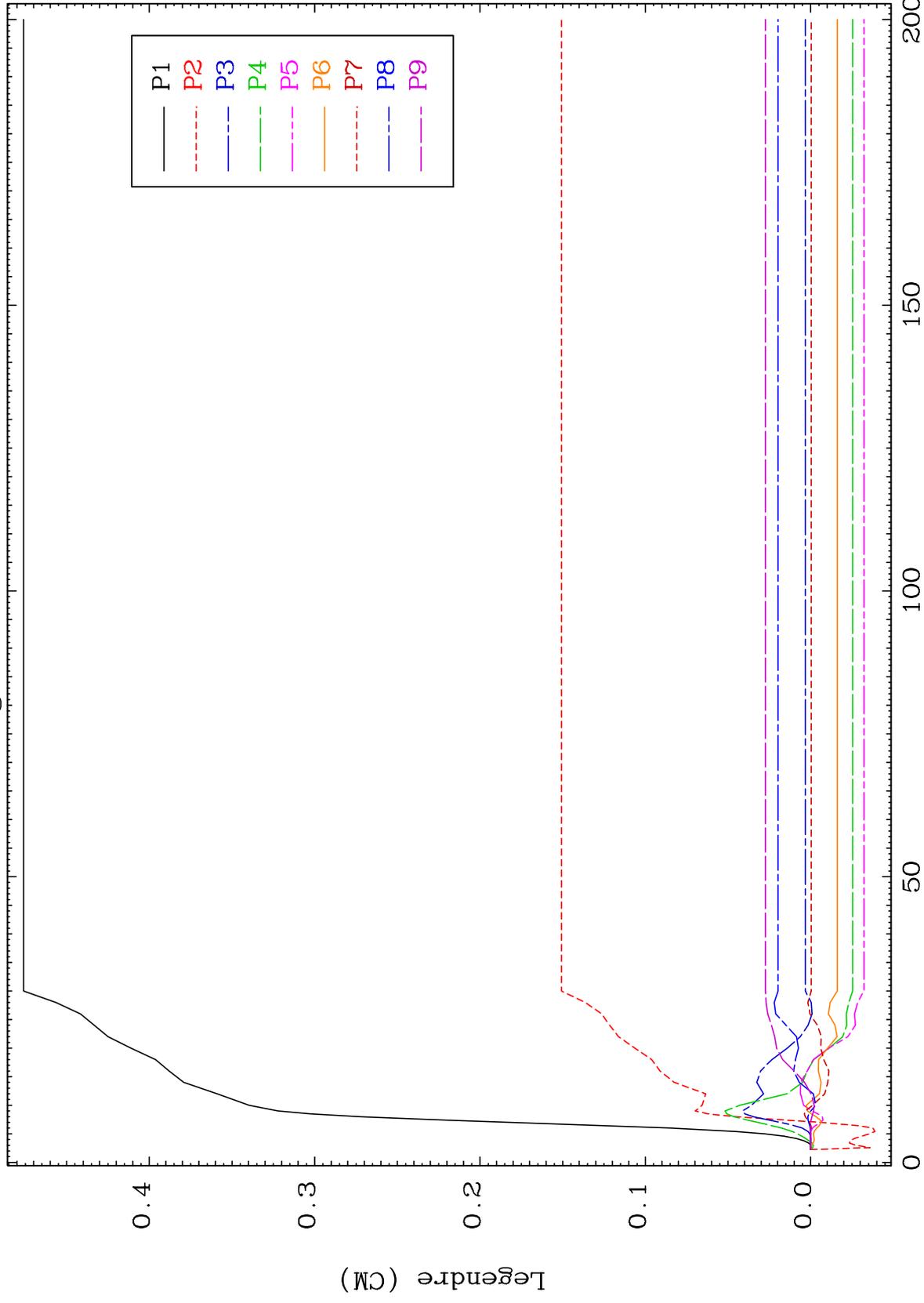
Incident Energy (MeV)

82-Pb-202

MAT 8219

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

82-Pb-202



83

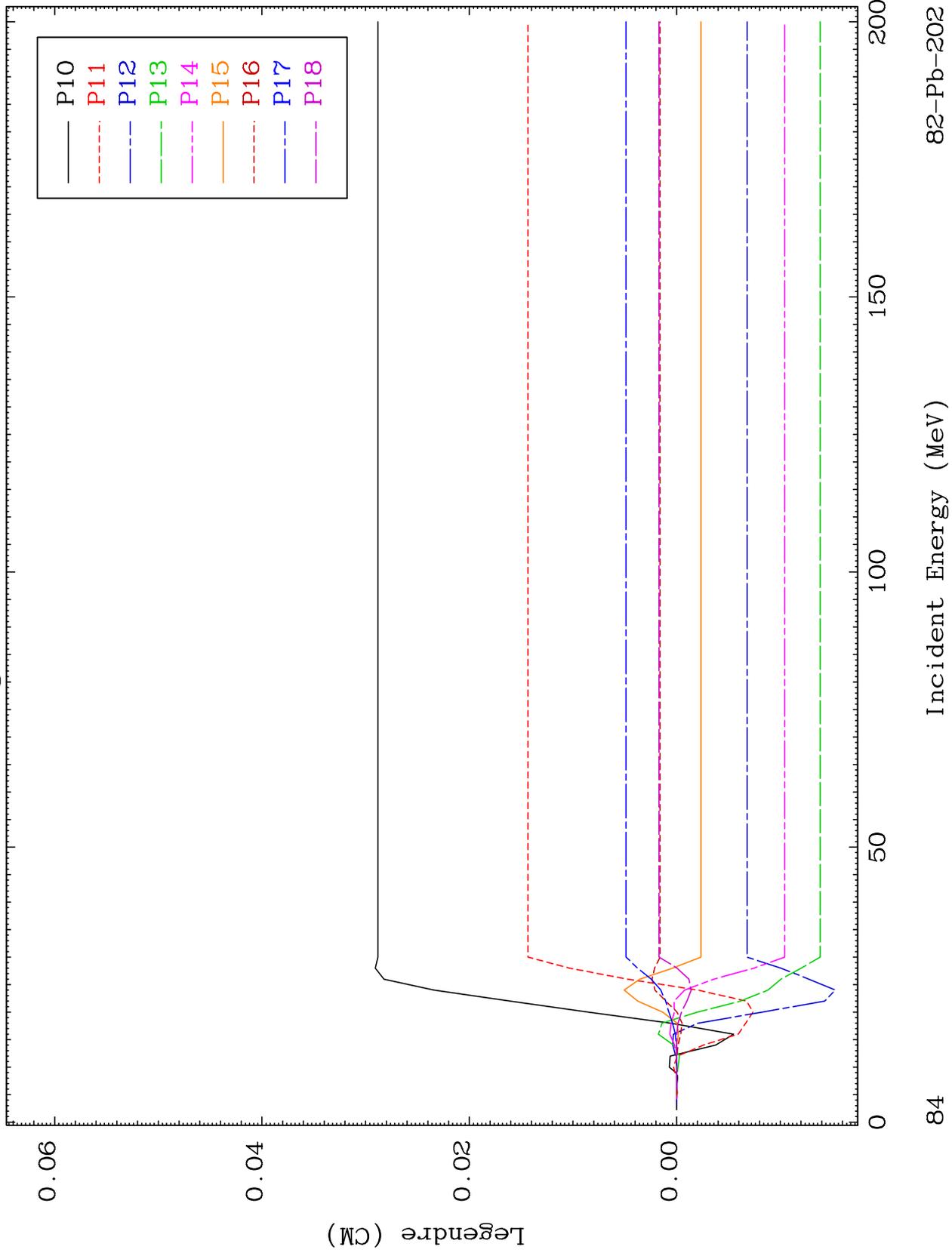
Incident Energy (MeV)

82-Pb-202

MAT 8219

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

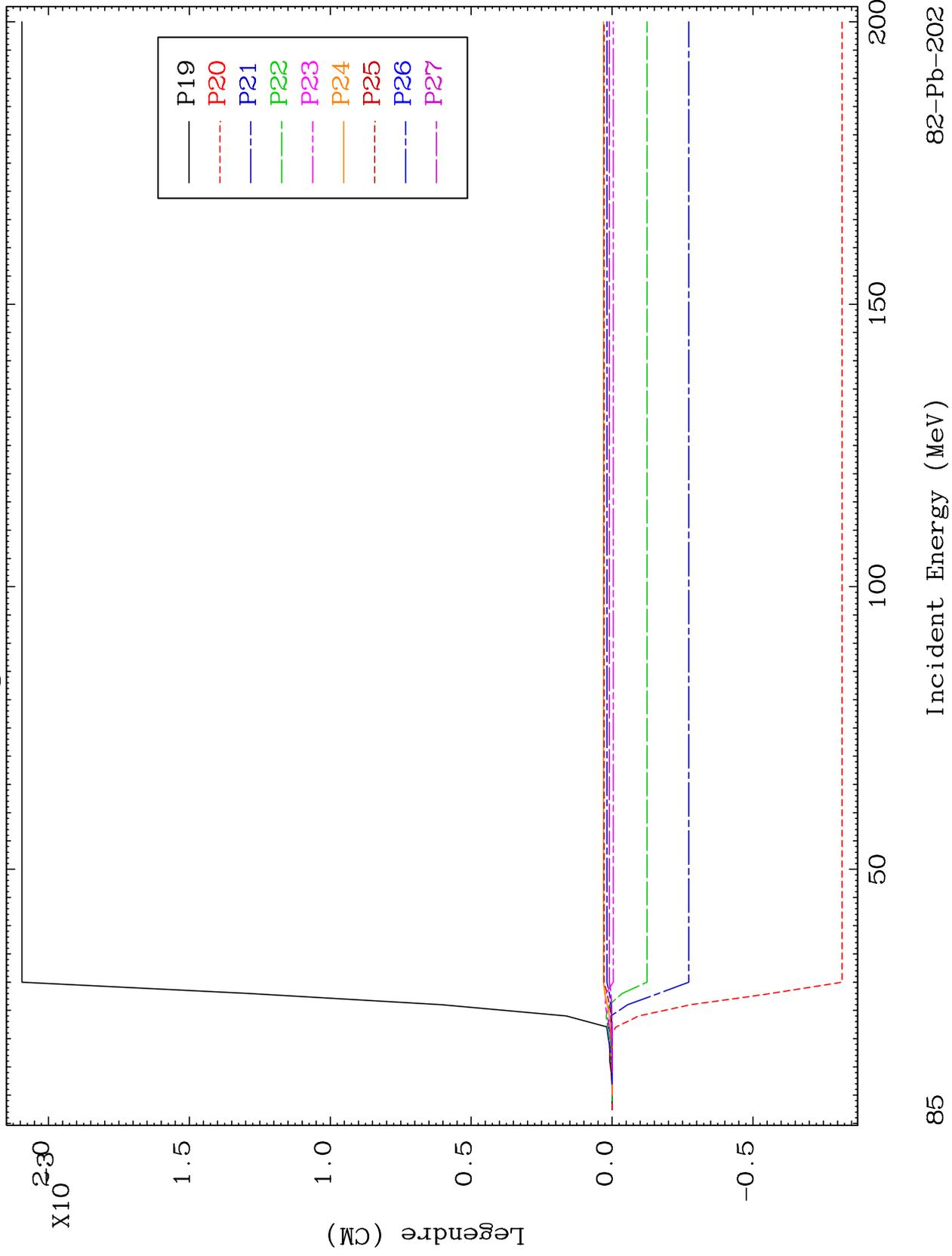
82-Pb-202



MAT 8219

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

82-Pb-202



85

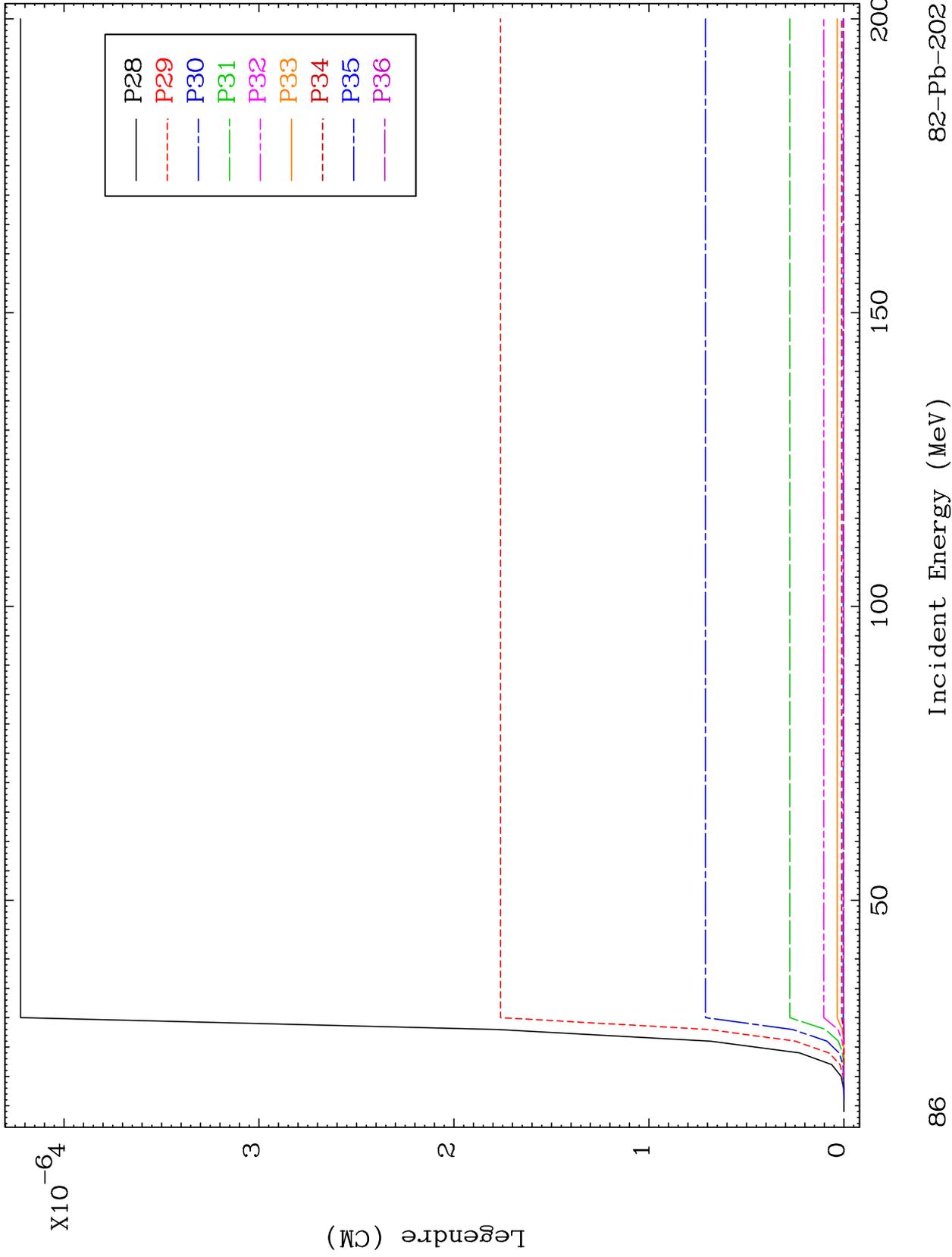
Incident Energy (MeV)

82-Pb-202

MAT 8219

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

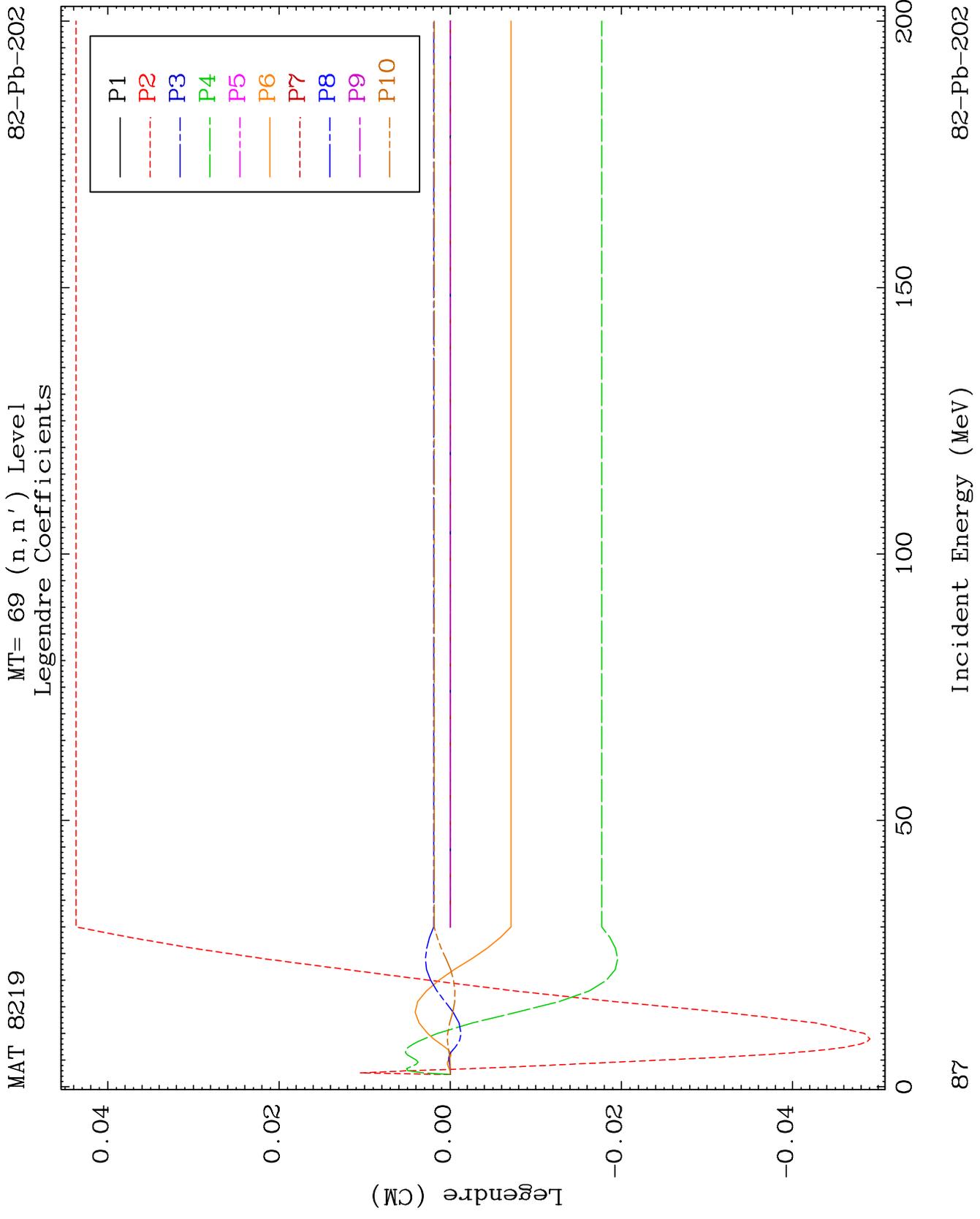
82-Pb-202



86

Incident Energy (MeV)

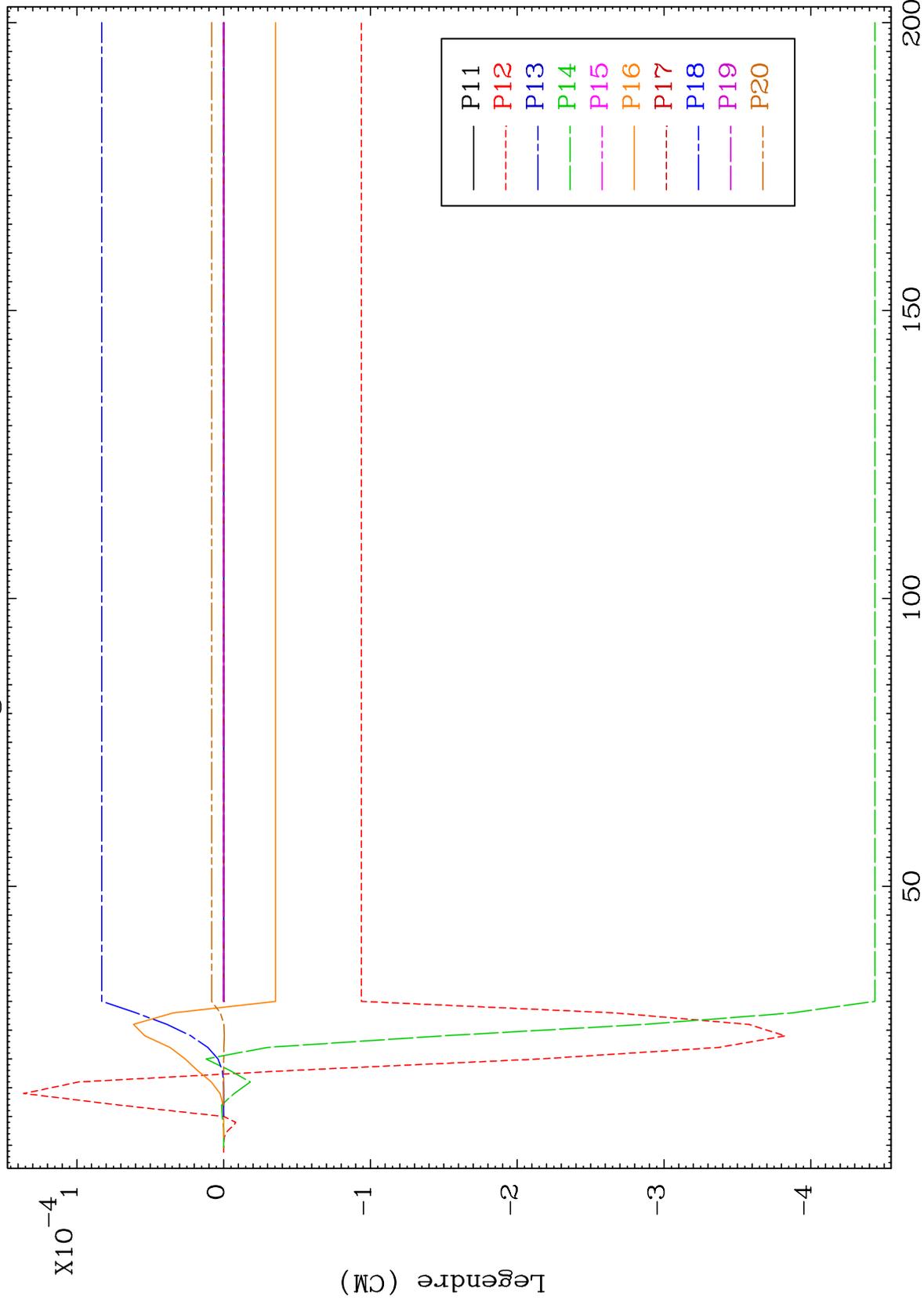
82-Pb-202



MAT 8219

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

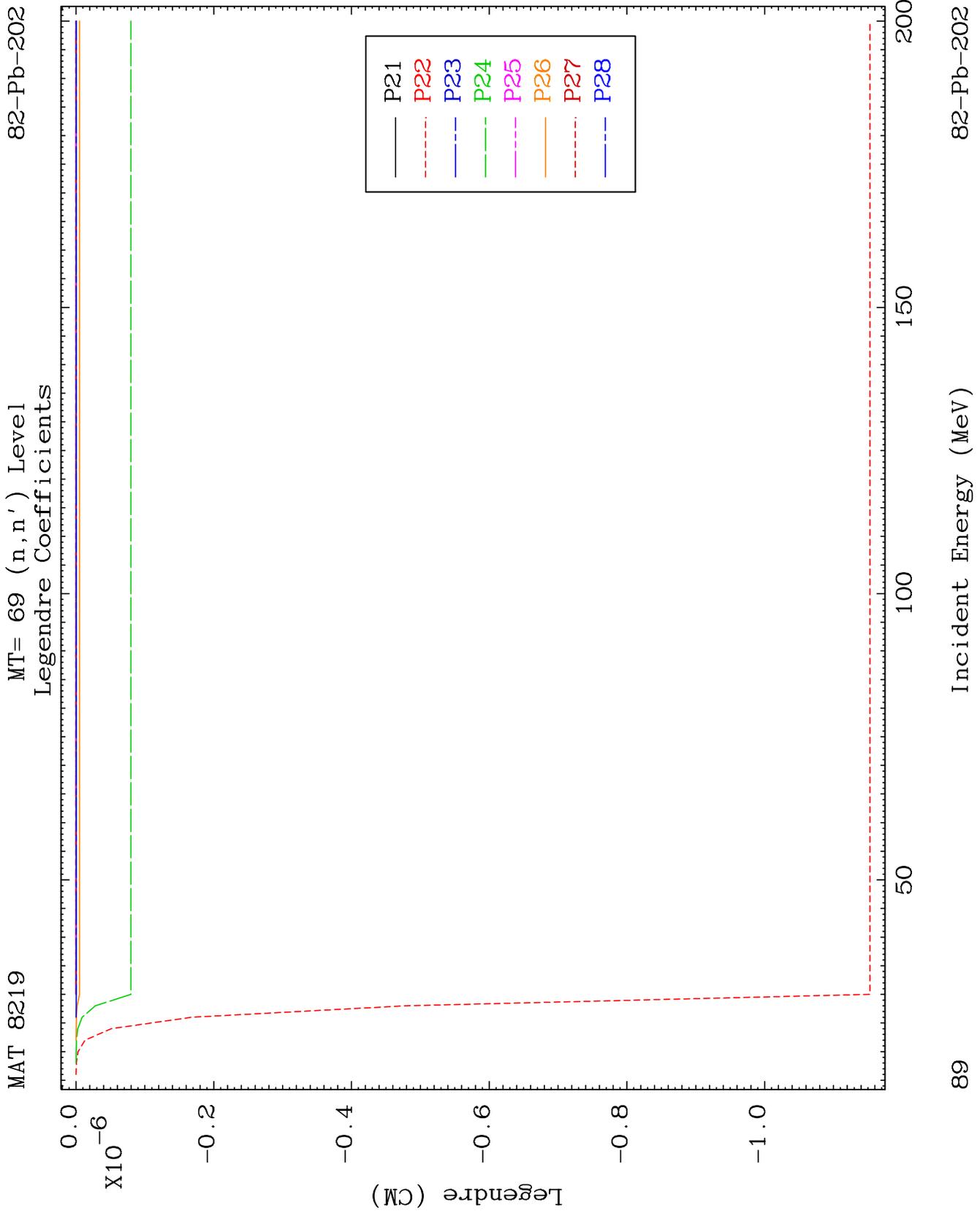
82-Pb-202



88

Incident Energy (MeV)

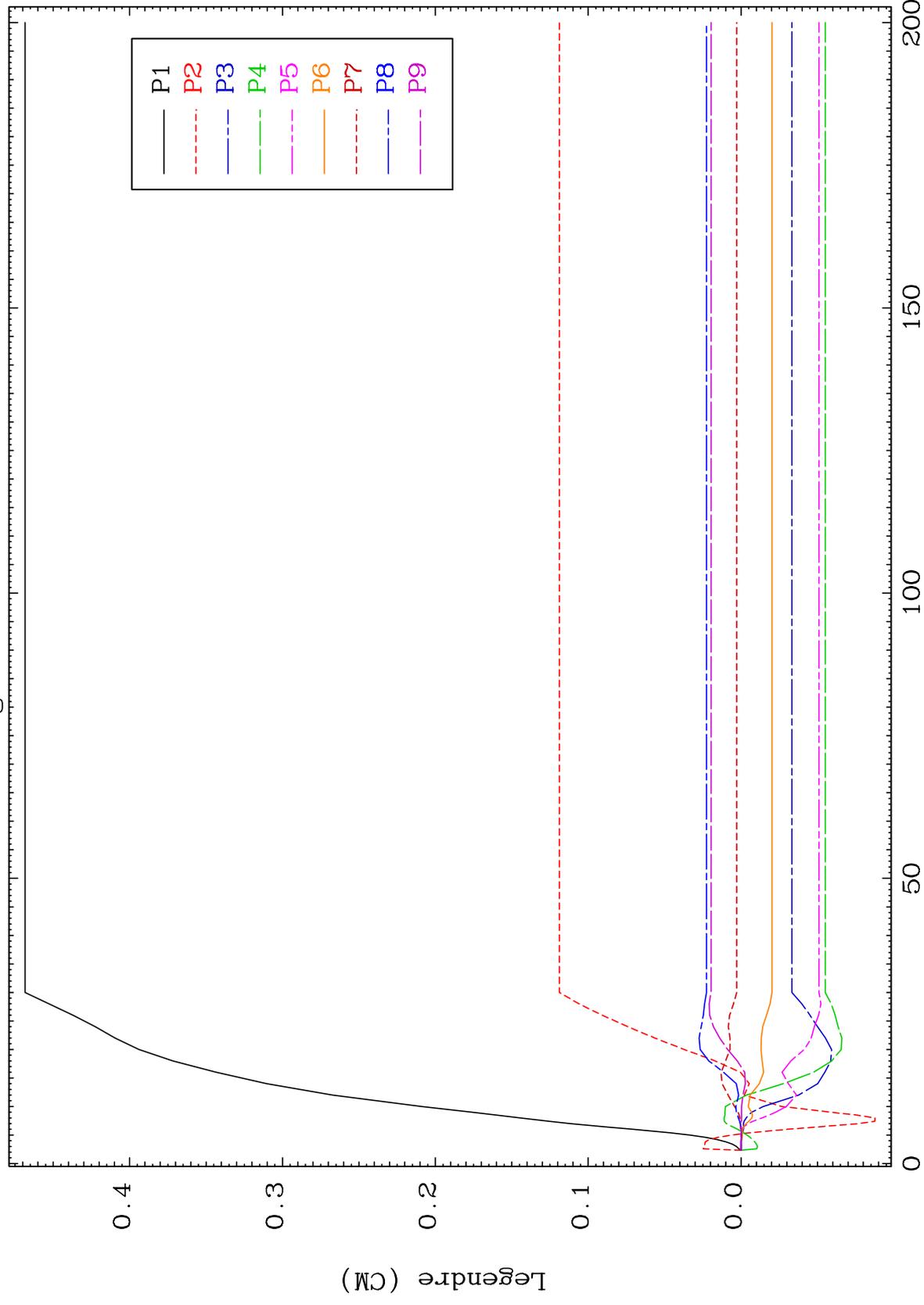
82-Pb-202



MAT 8219

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

82-Pb-202



82-Pb-202

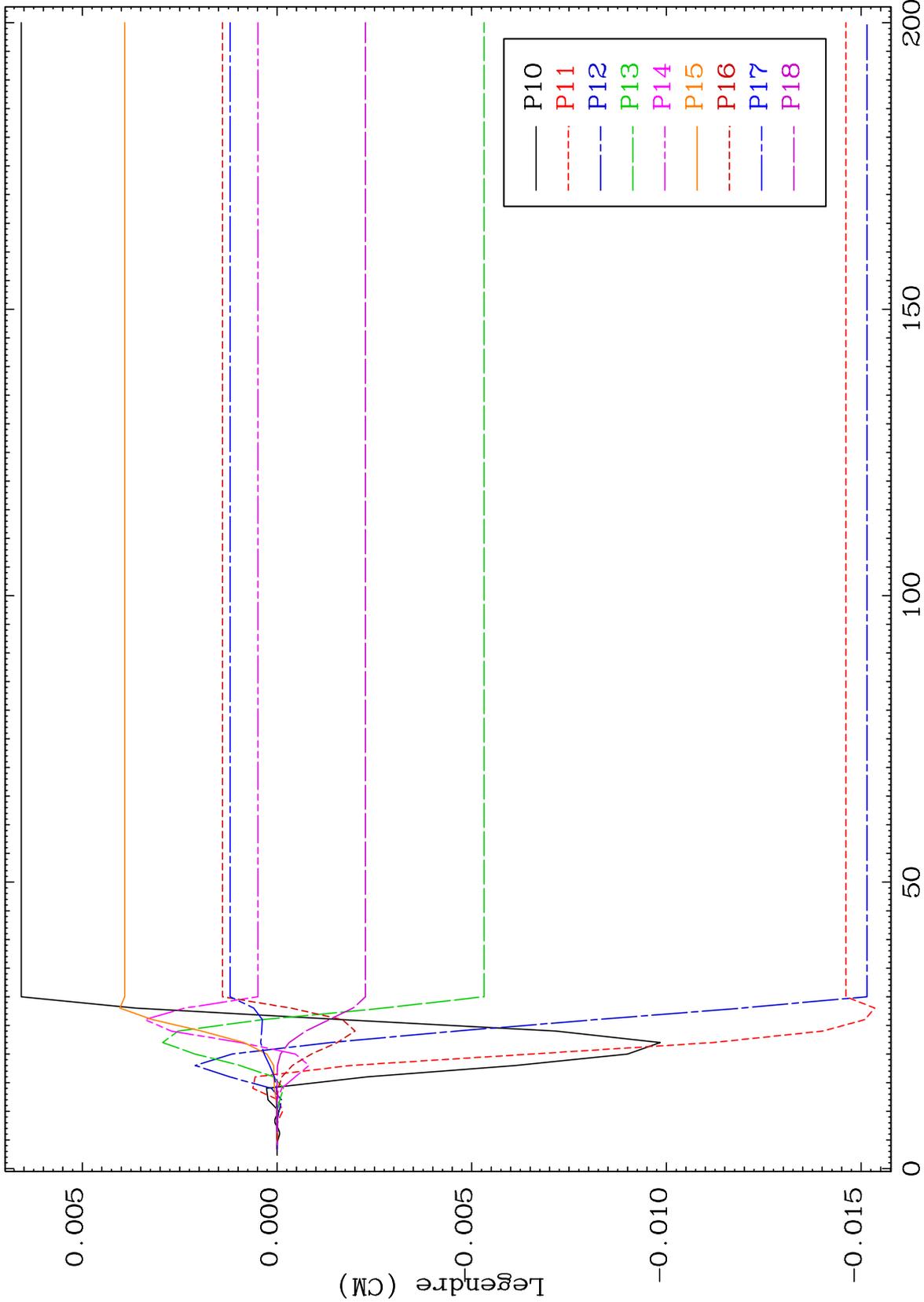
Incident Energy (MeV)

90

MAT 8219

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

82-Pb-202



91

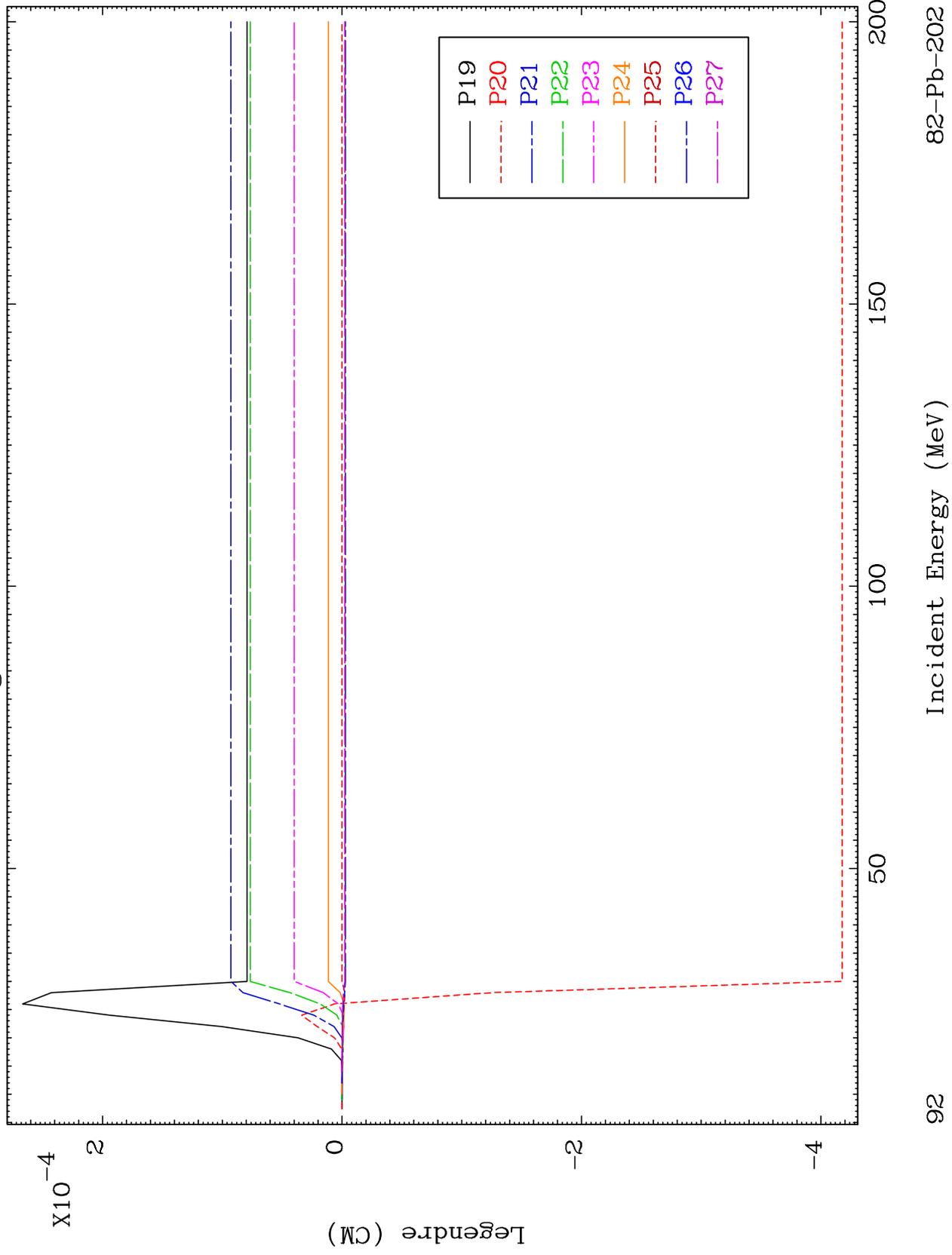
Incident Energy (MeV)

82-Pb-202

MAT 8219

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

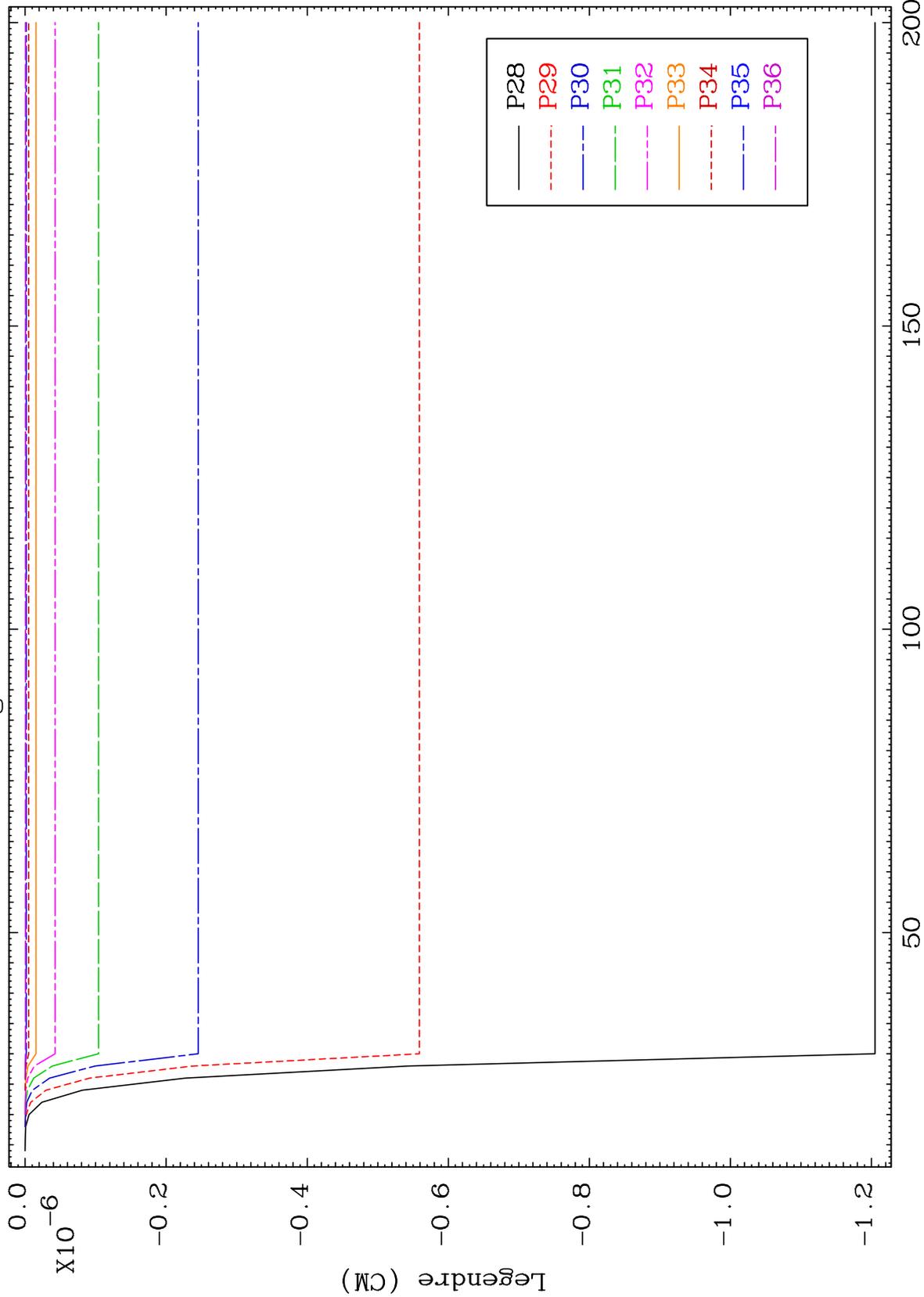
82-Pb-202

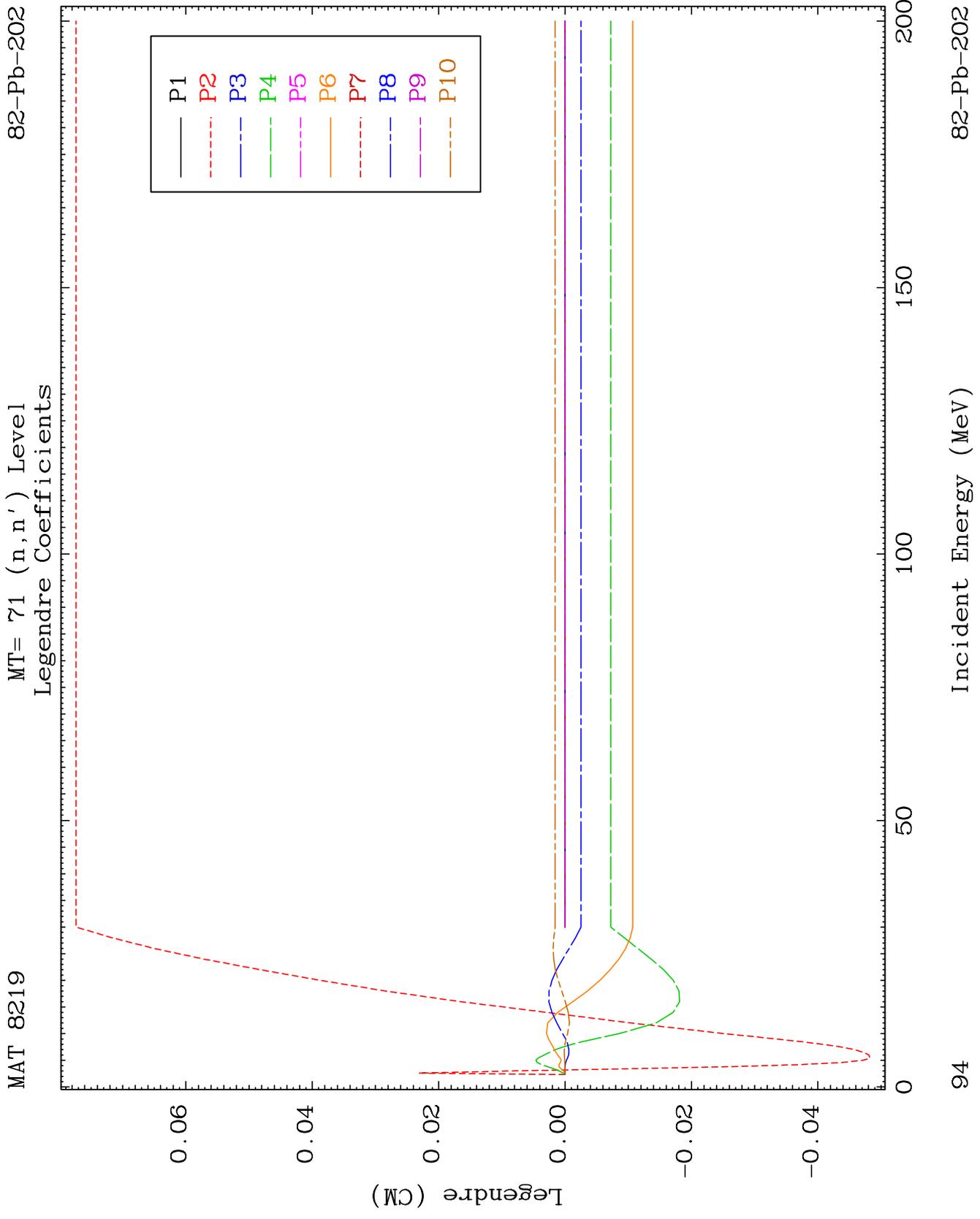


MAT 8219

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

82-Pb-202





82-Pb-202

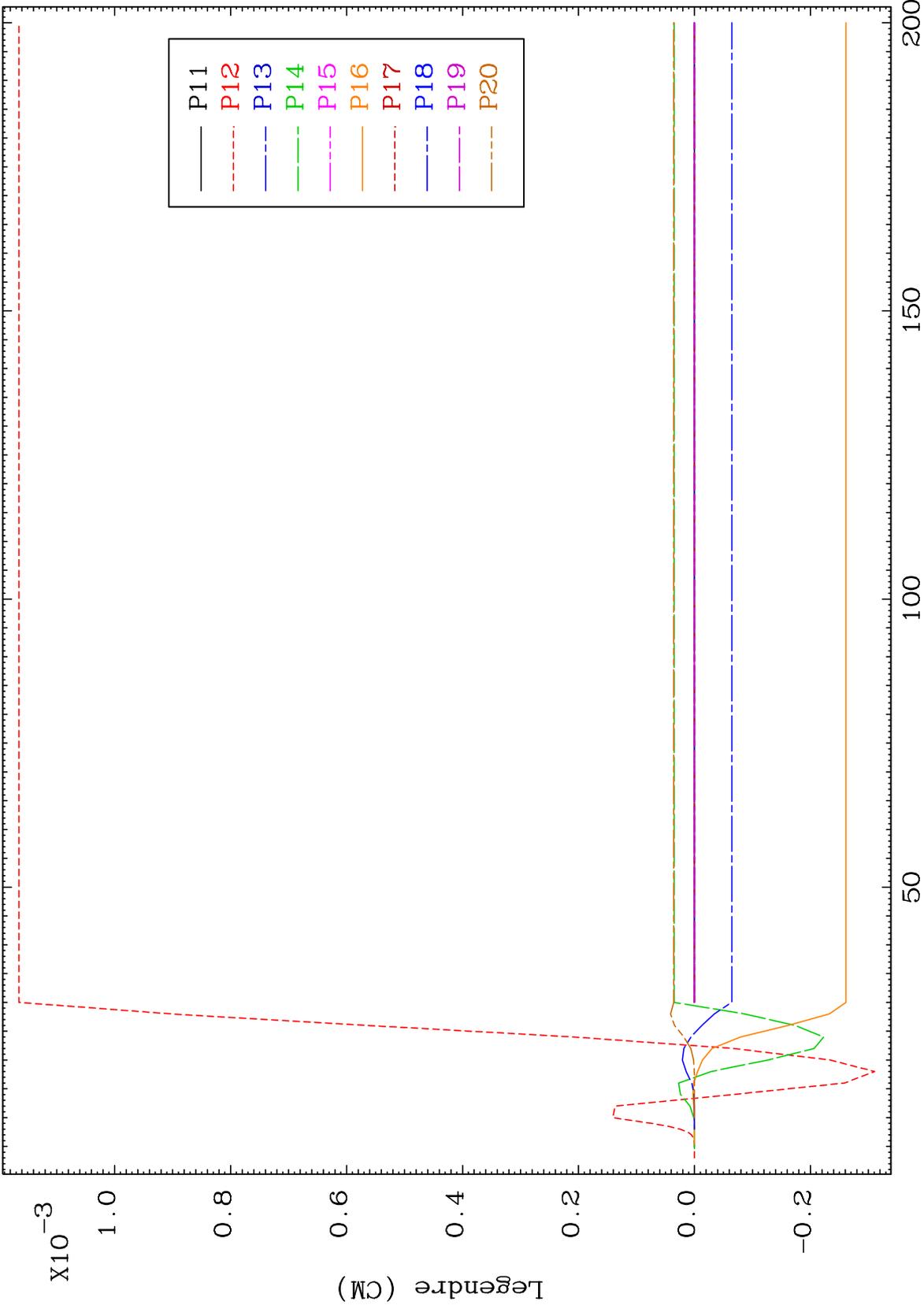
Incident Energy (MeV)

94

MAT 8219

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

82-Pb-202



95

Incident Energy (MeV)

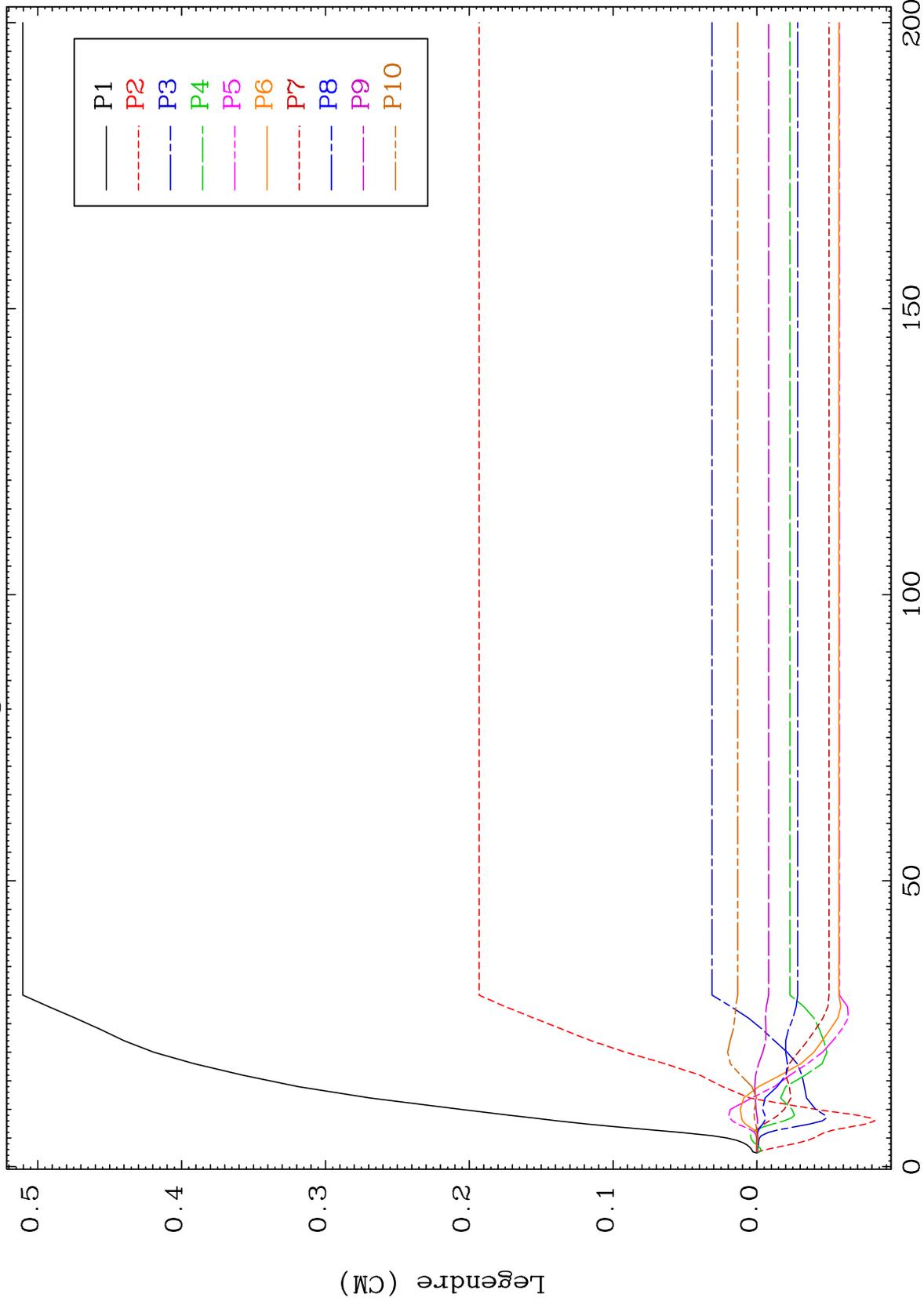
82-Pb-202



MAT 8219

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

82-Pb-202



97

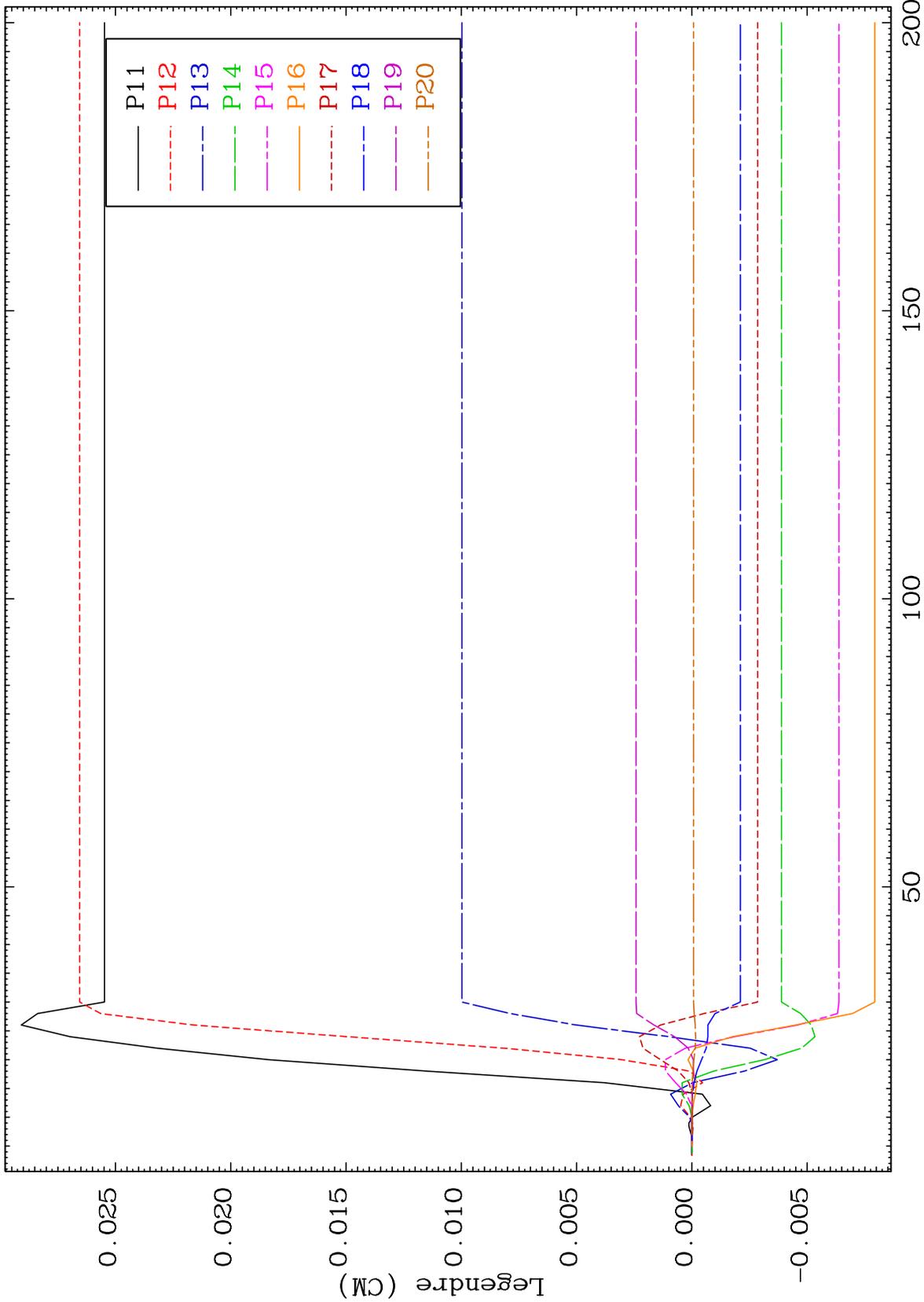
Incident Energy (MeV)

82-Pb-202

MAT 8219

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

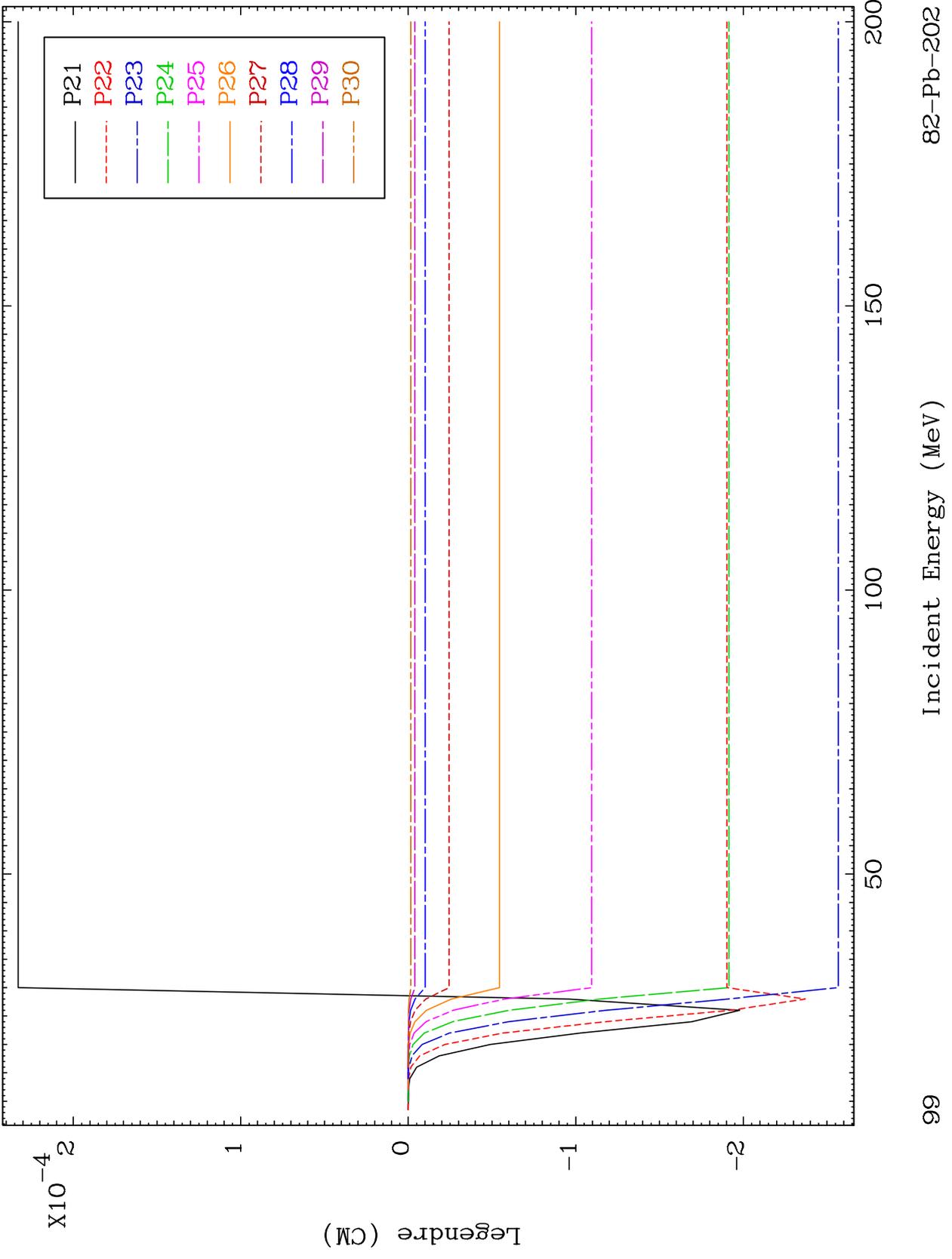
82-Pb-202

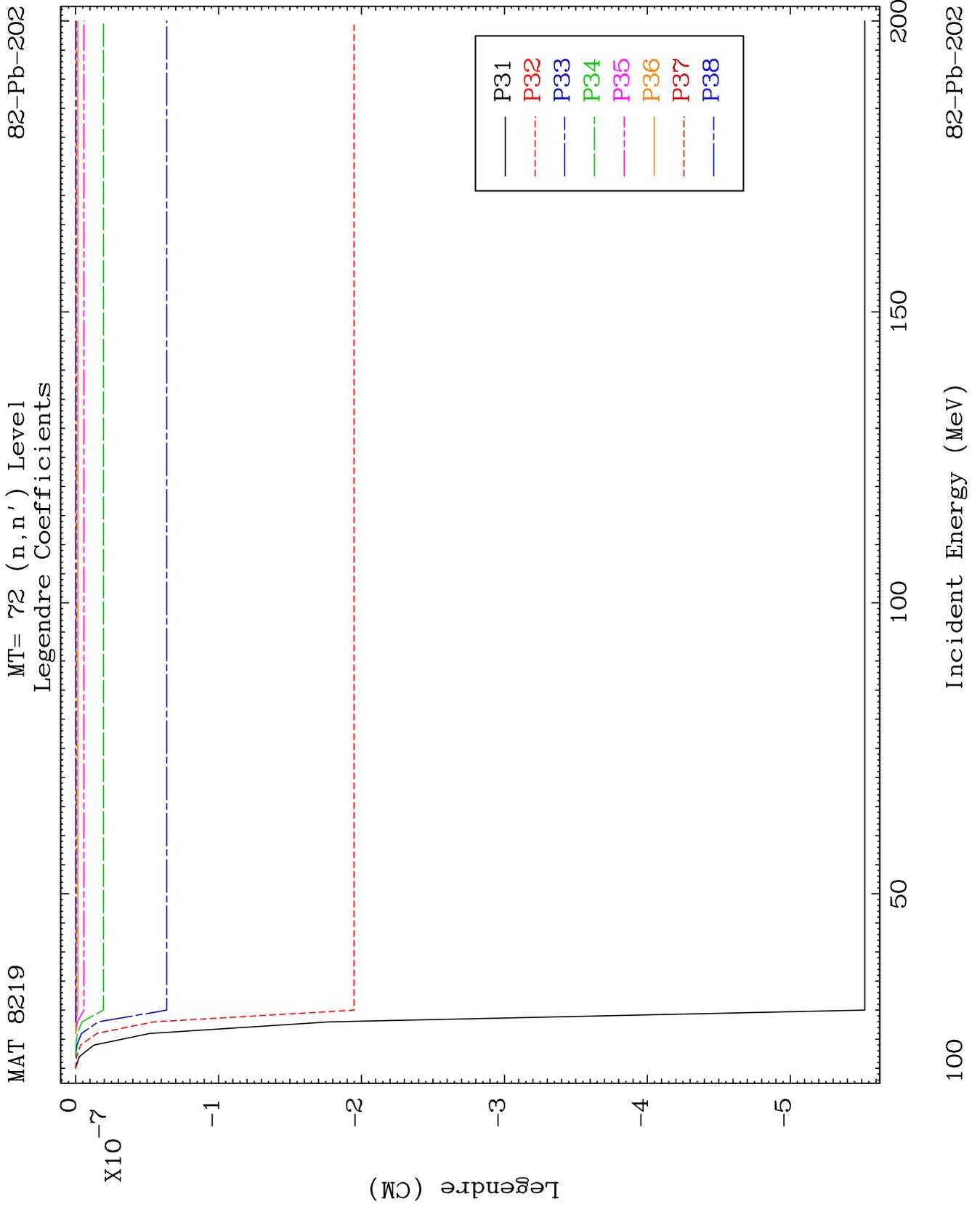


MAT 8219

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

82-Pb-202



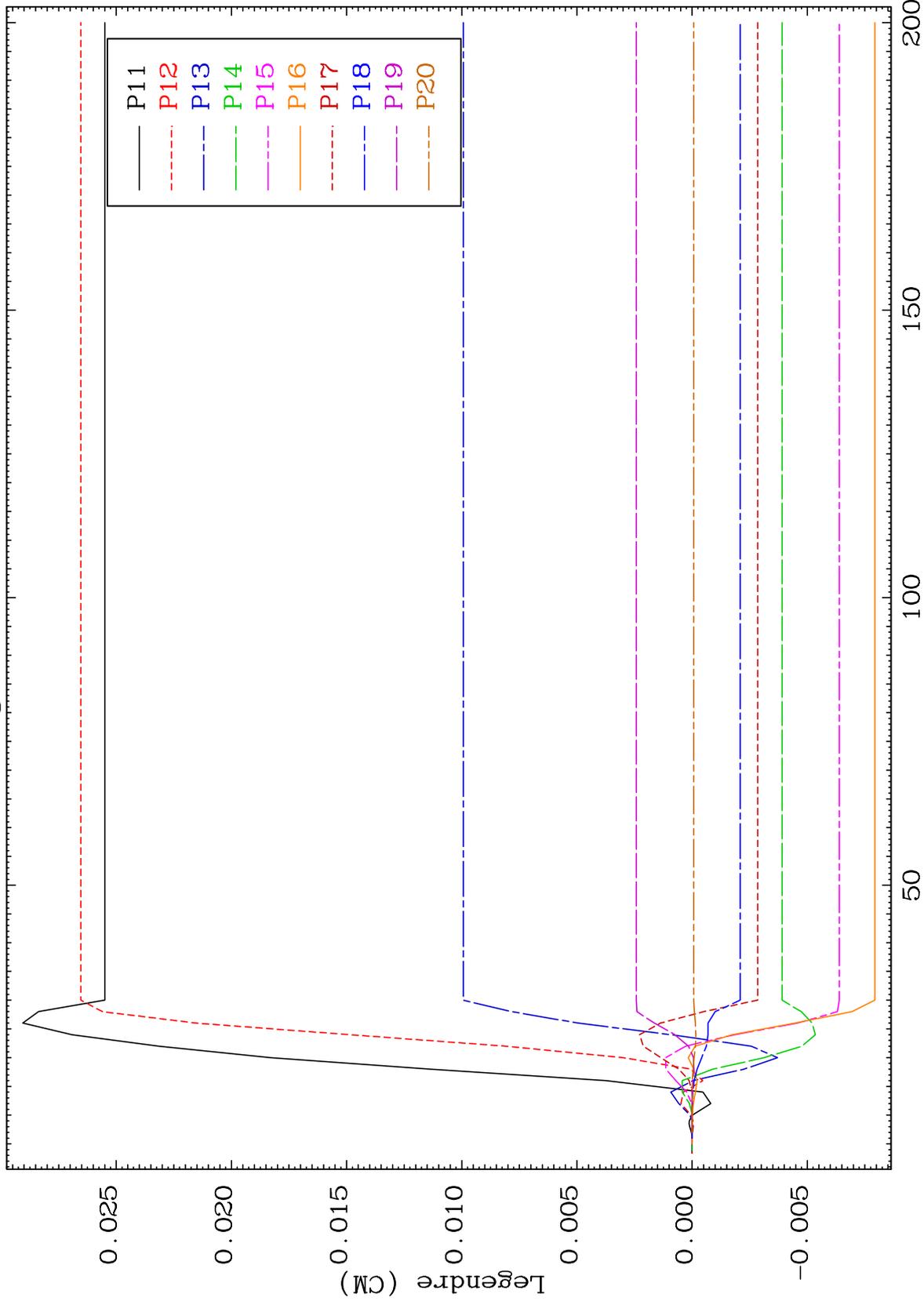




MAT 8219

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

82-Pb-202



102

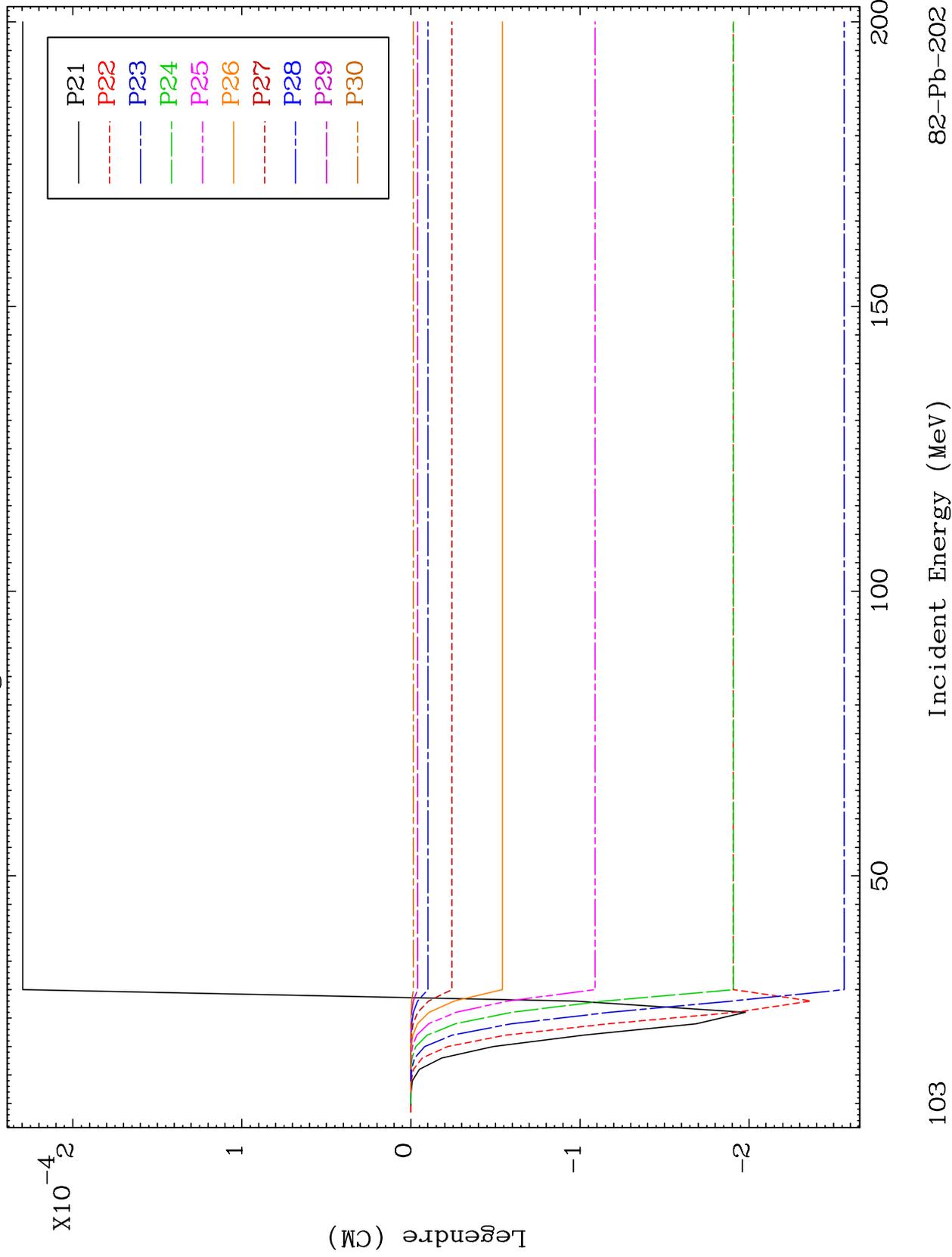
Incident Energy (MeV)

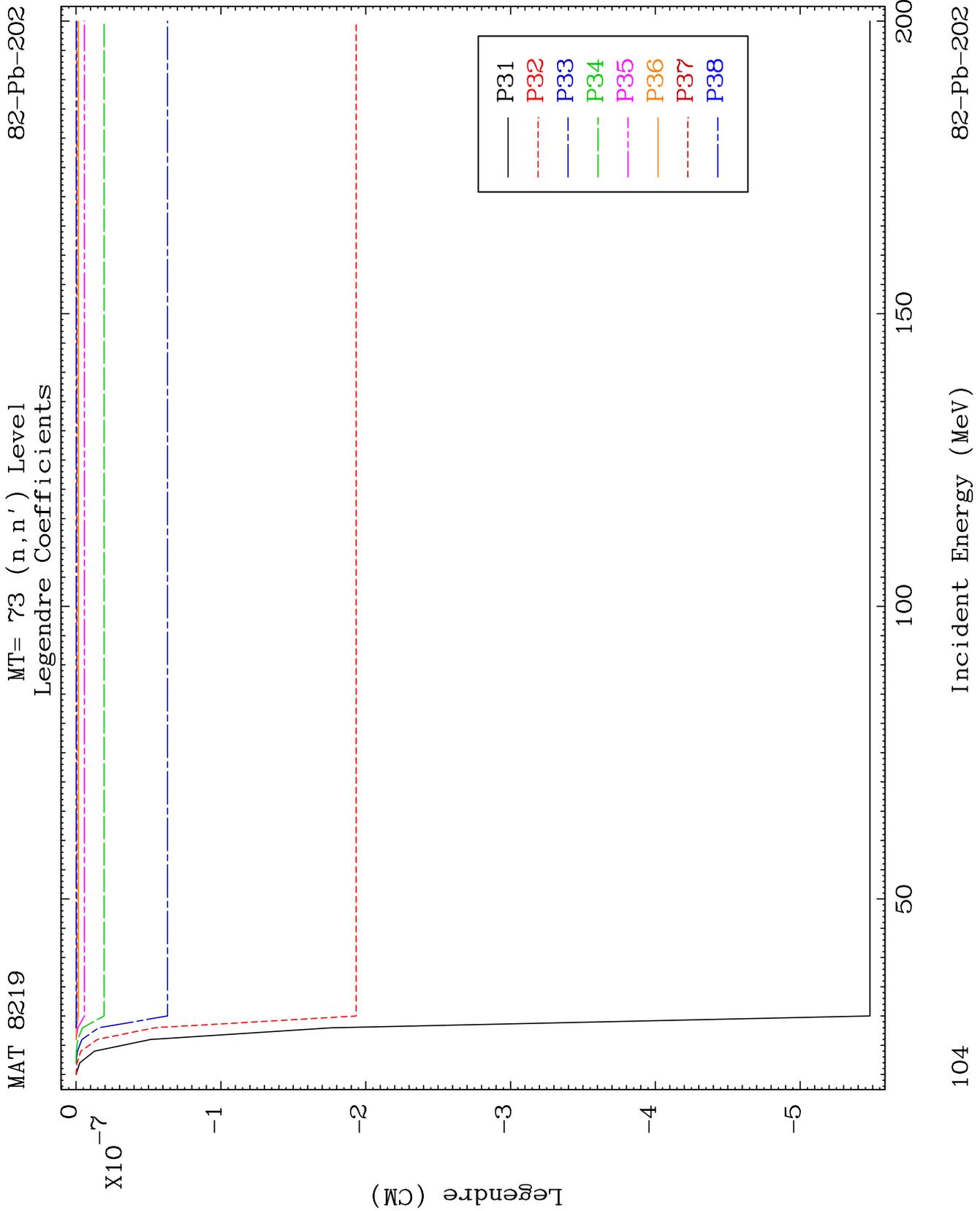
82-Pb-202

MAT 8219

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

82-Pb-202



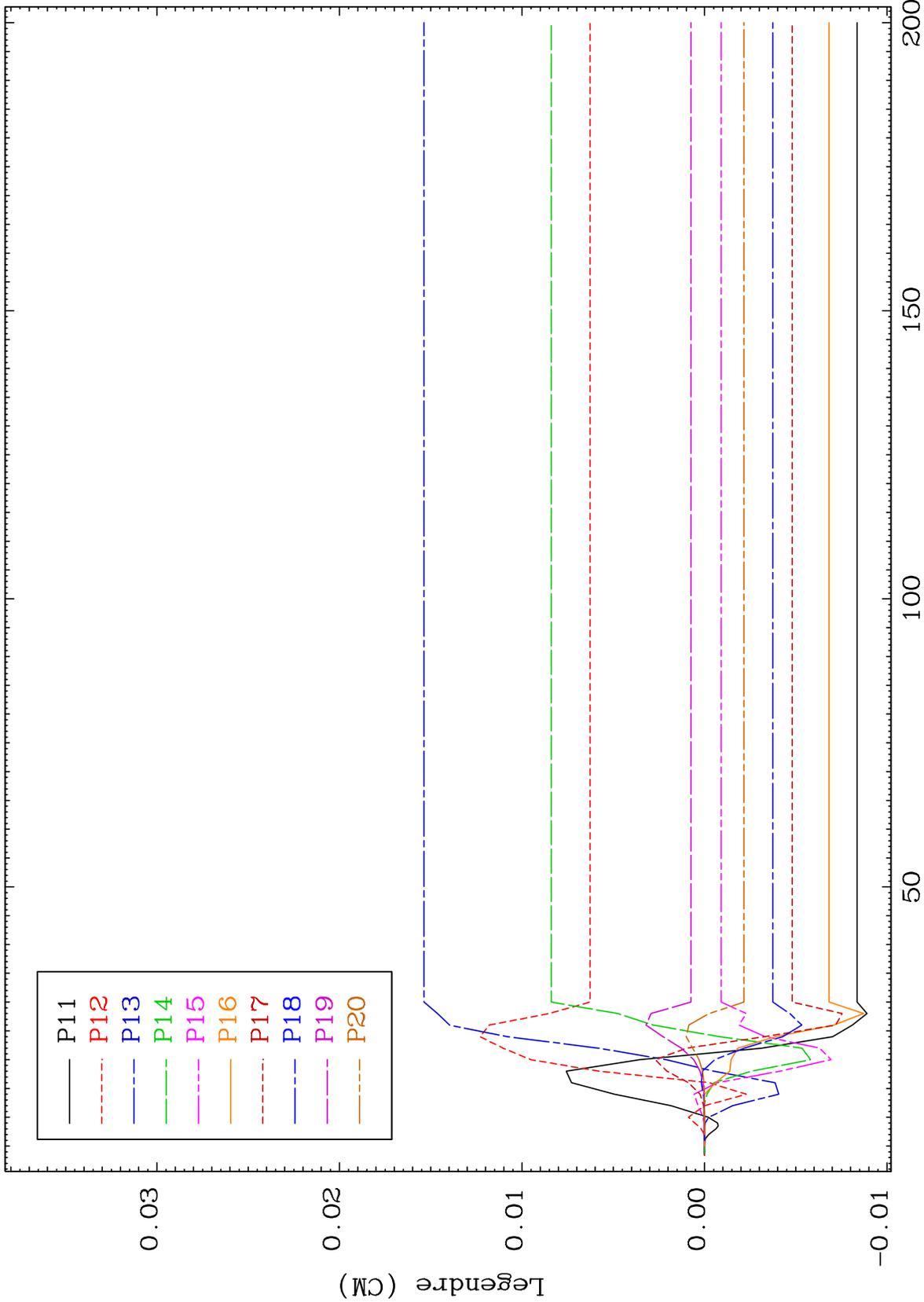




MAT 8219

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

82-Pb-202



106

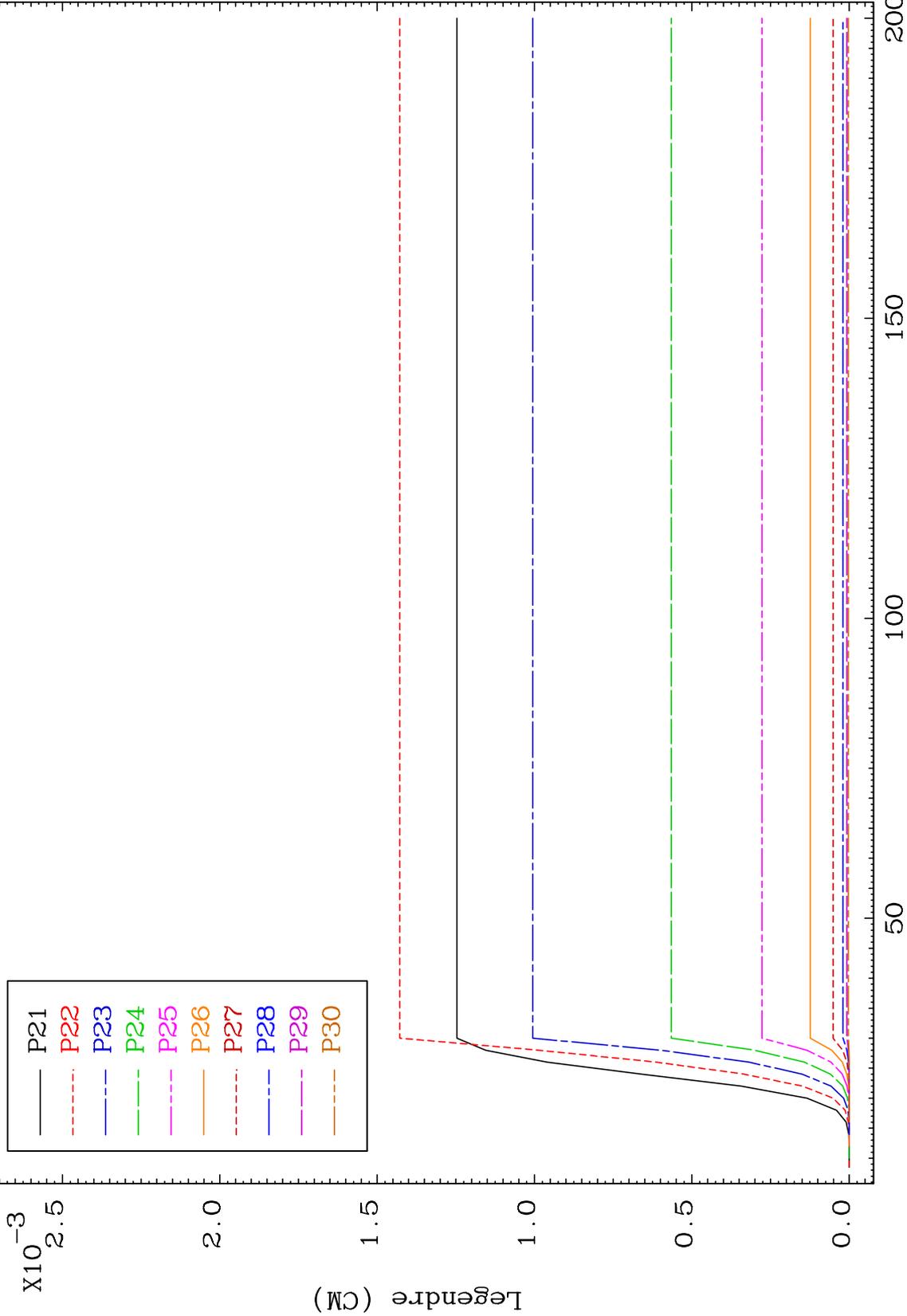
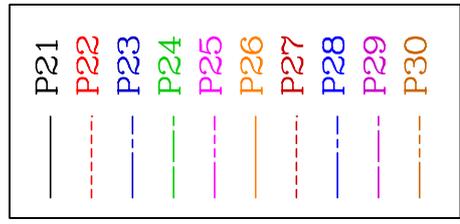
Incident Energy (MeV)

82-Pb-202

MAT 8219

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

82-Pb-202



107

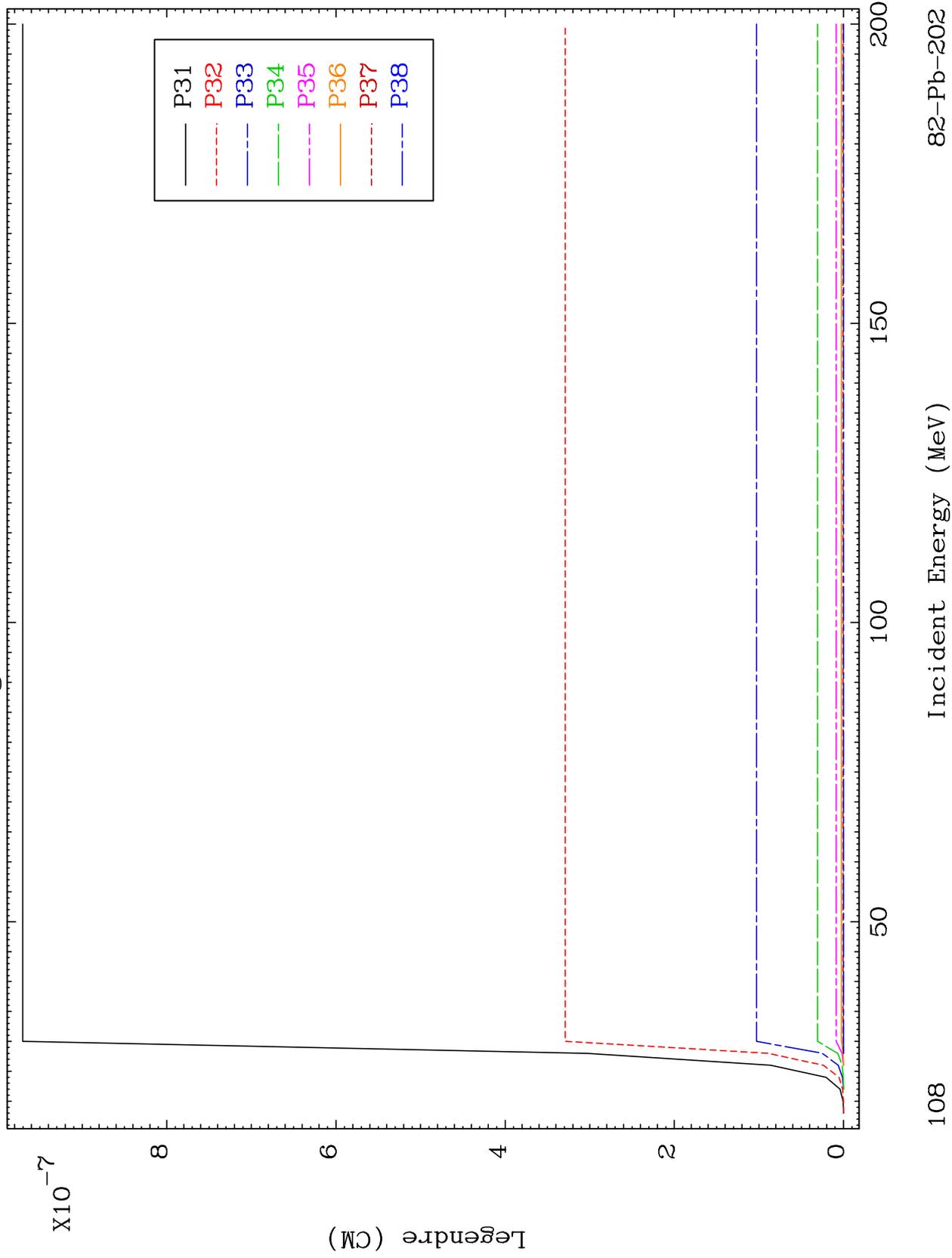
Incident Energy (MeV)

82-Pb-202

MAT 8219

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

82-Pb-202



108

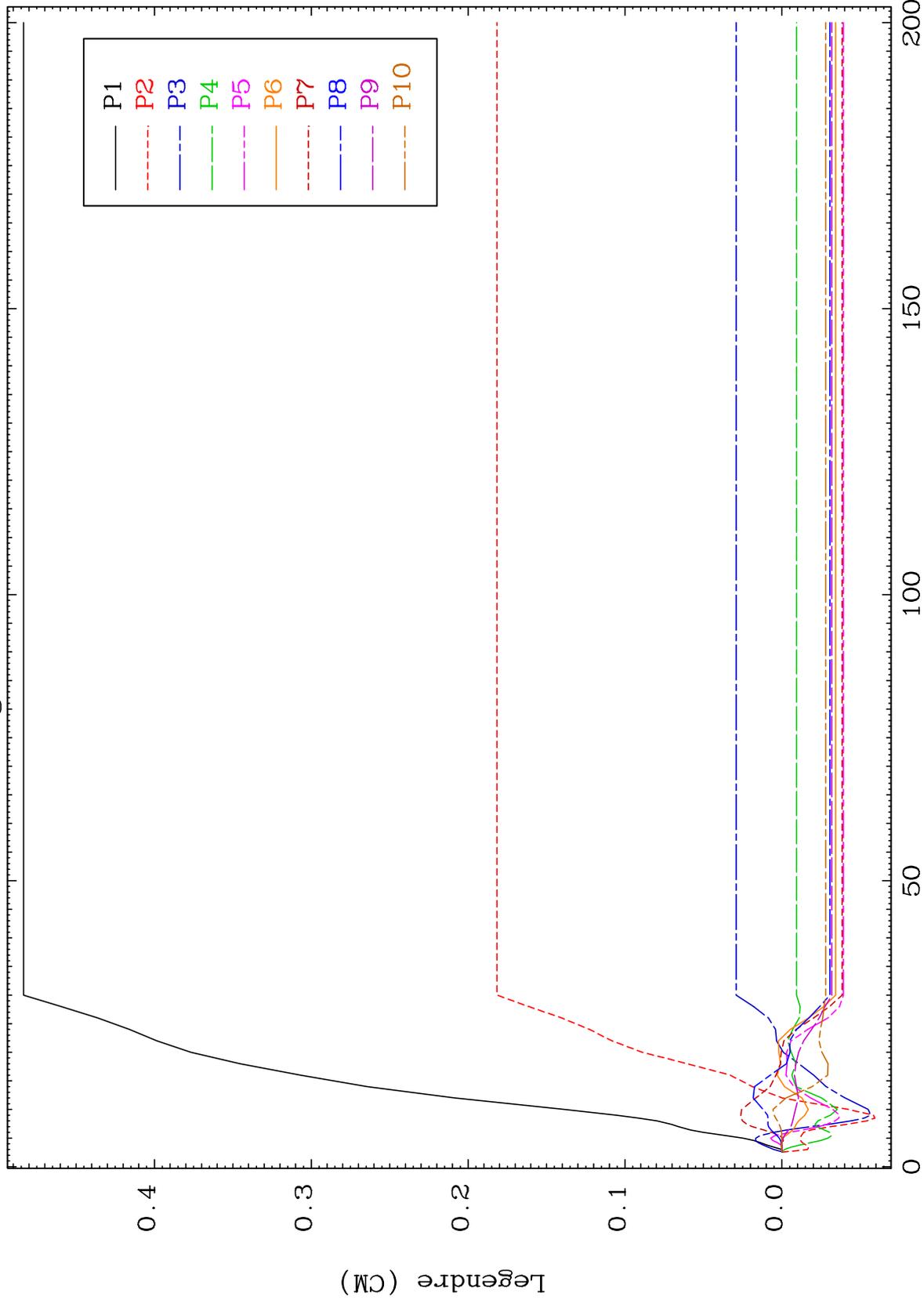
Incident Energy (MeV)

82-Pb-202

MAT 8219

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

82-Pb-202



82-Pb-202

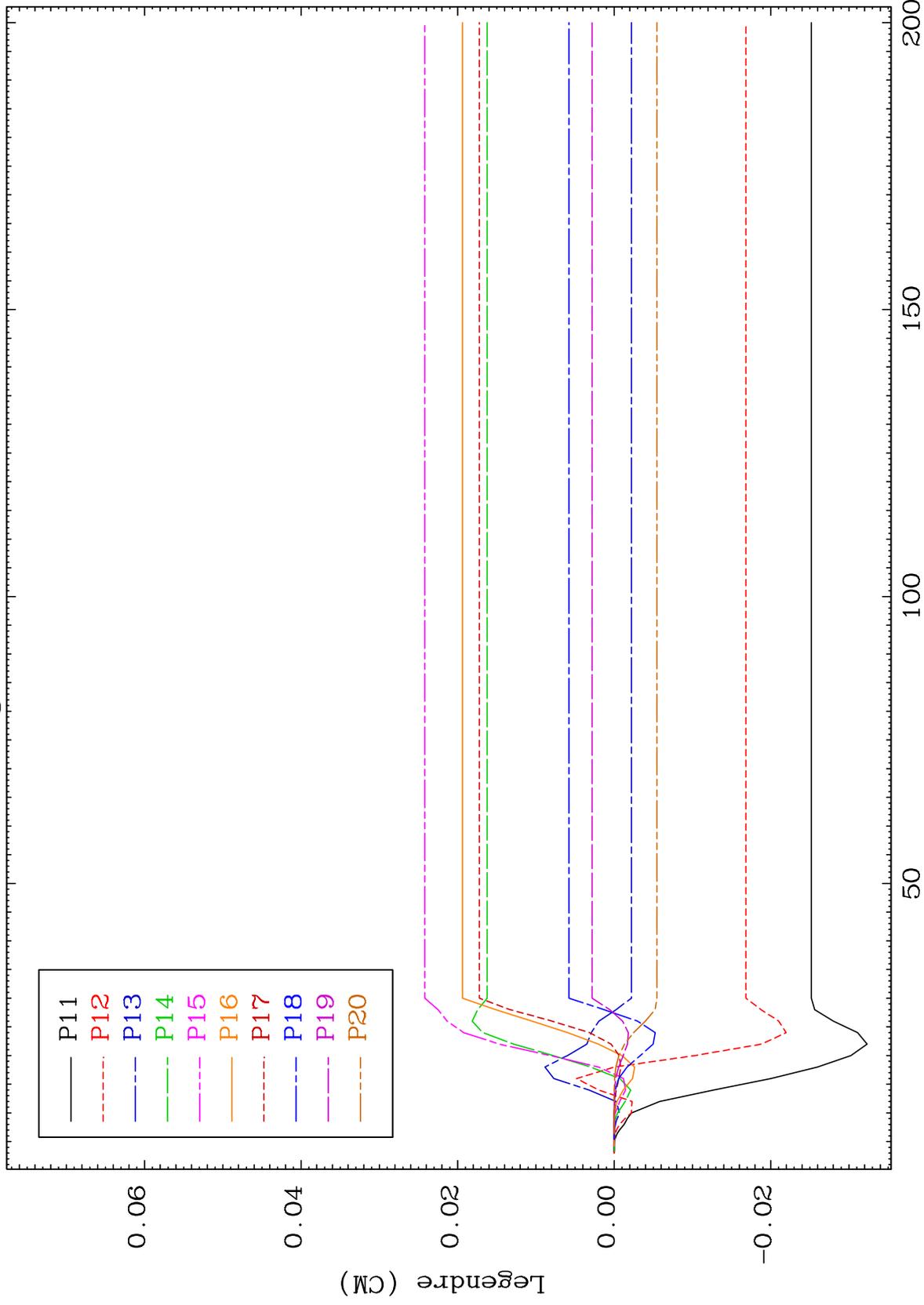
Incident Energy (MeV)

109

MAT 8219

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

82-Pb-202



110

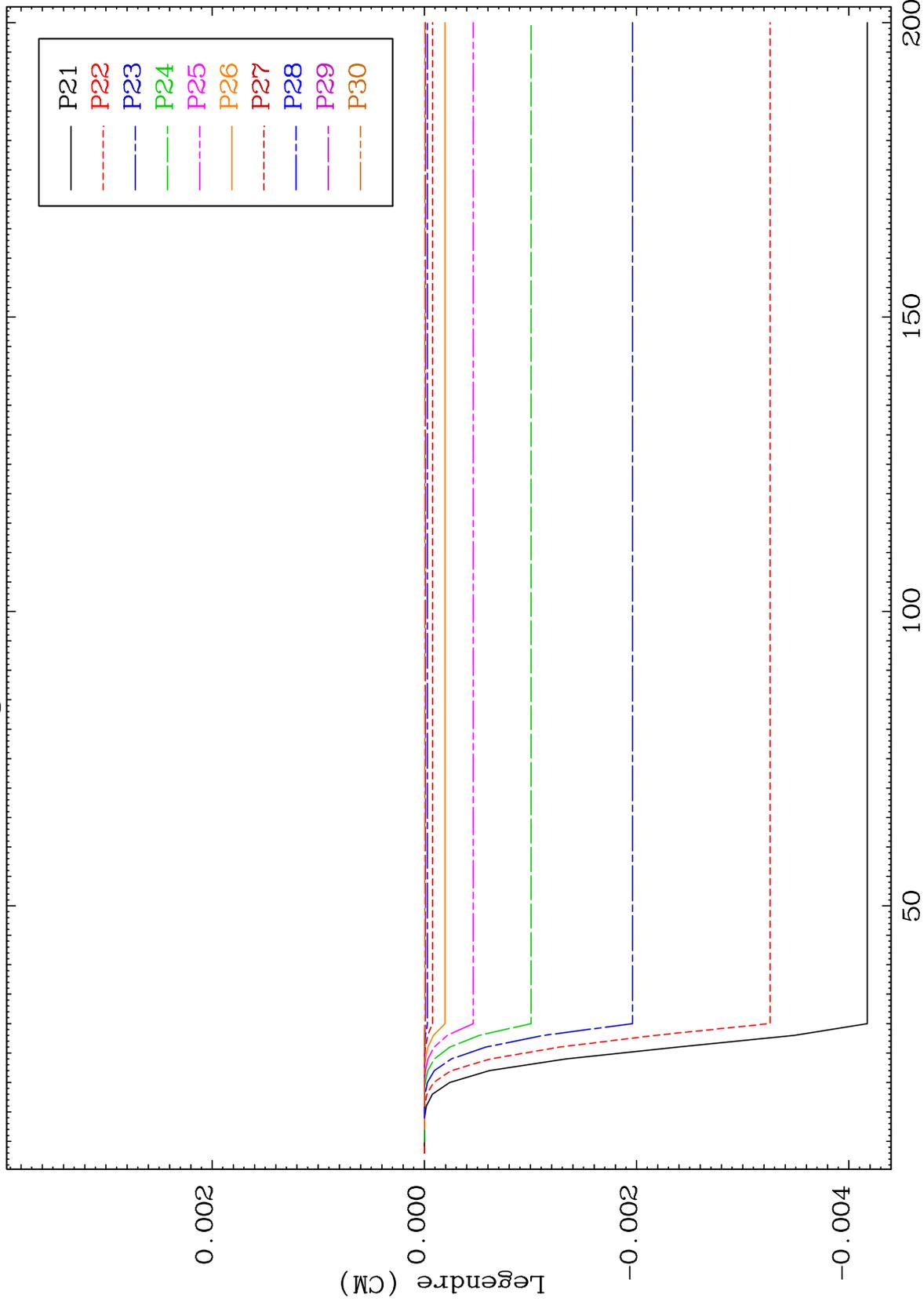
Incident Energy (MeV)

82-Pb-202

MAT 8219

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

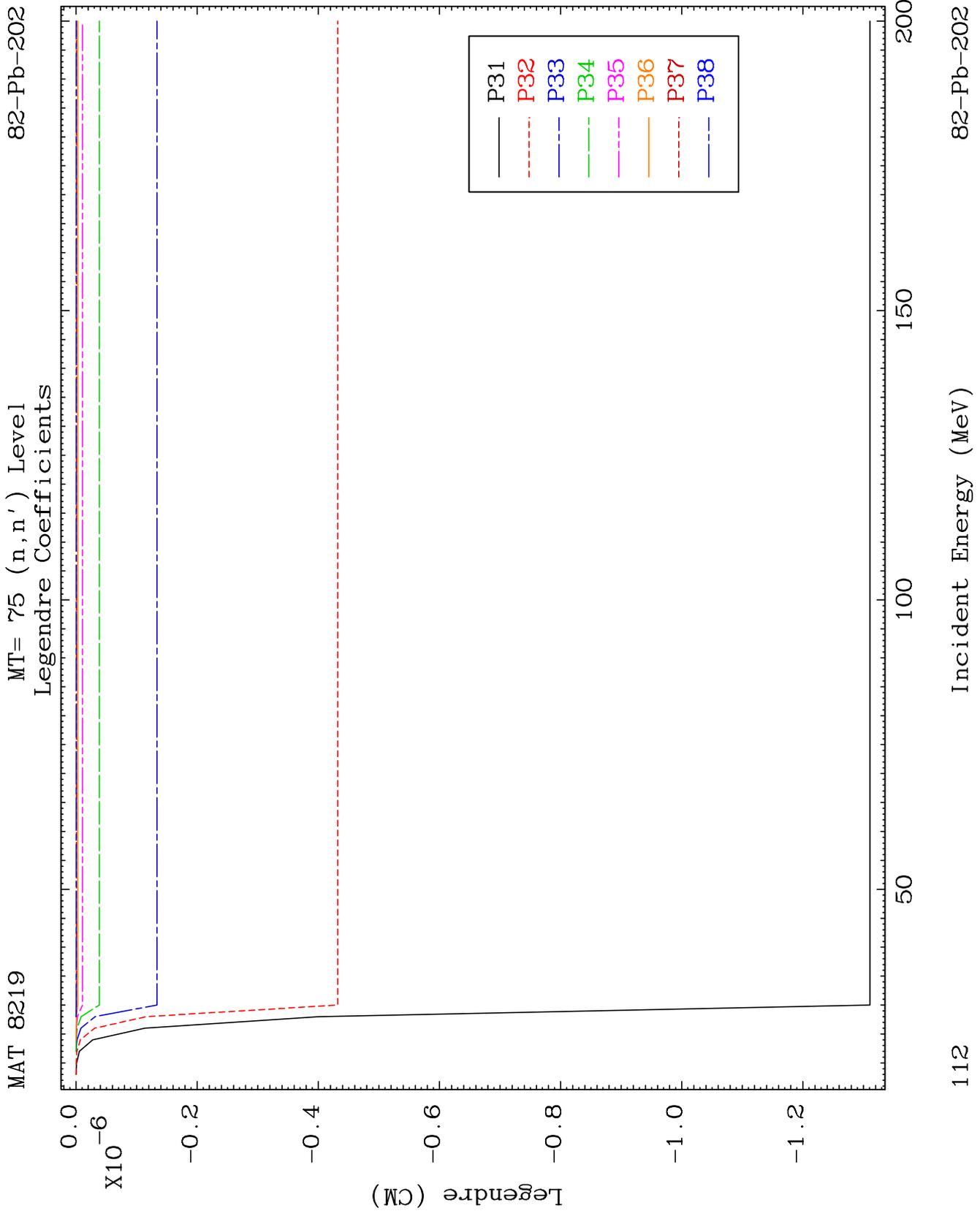
82-Pb-202



111

Incident Energy (MeV)

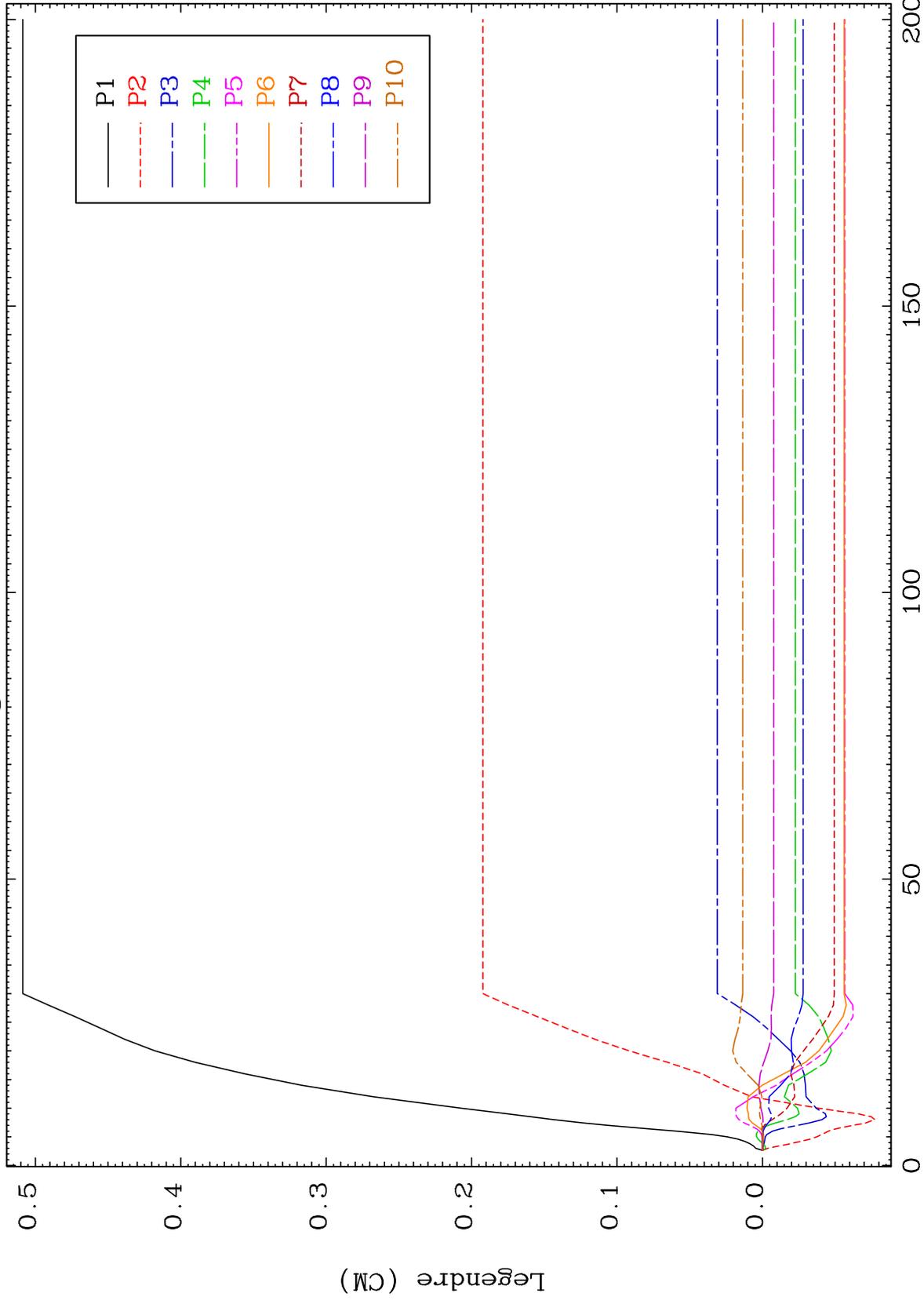
82-Pb-202



MAT 8219

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

82-Pb-202



113

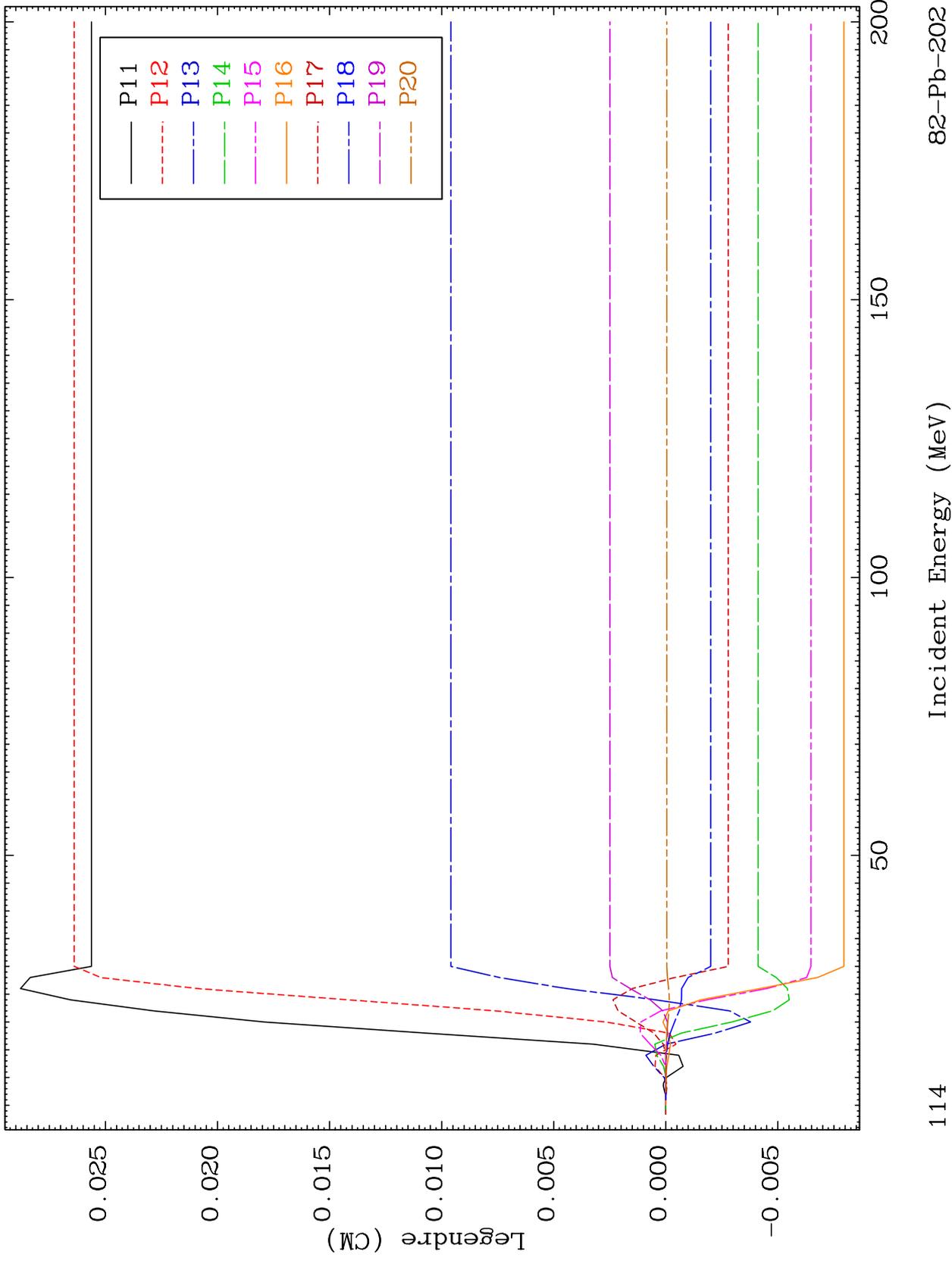
Incident Energy (MeV)

82-Pb-202

MAT 8219

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

82-Pb-202



114

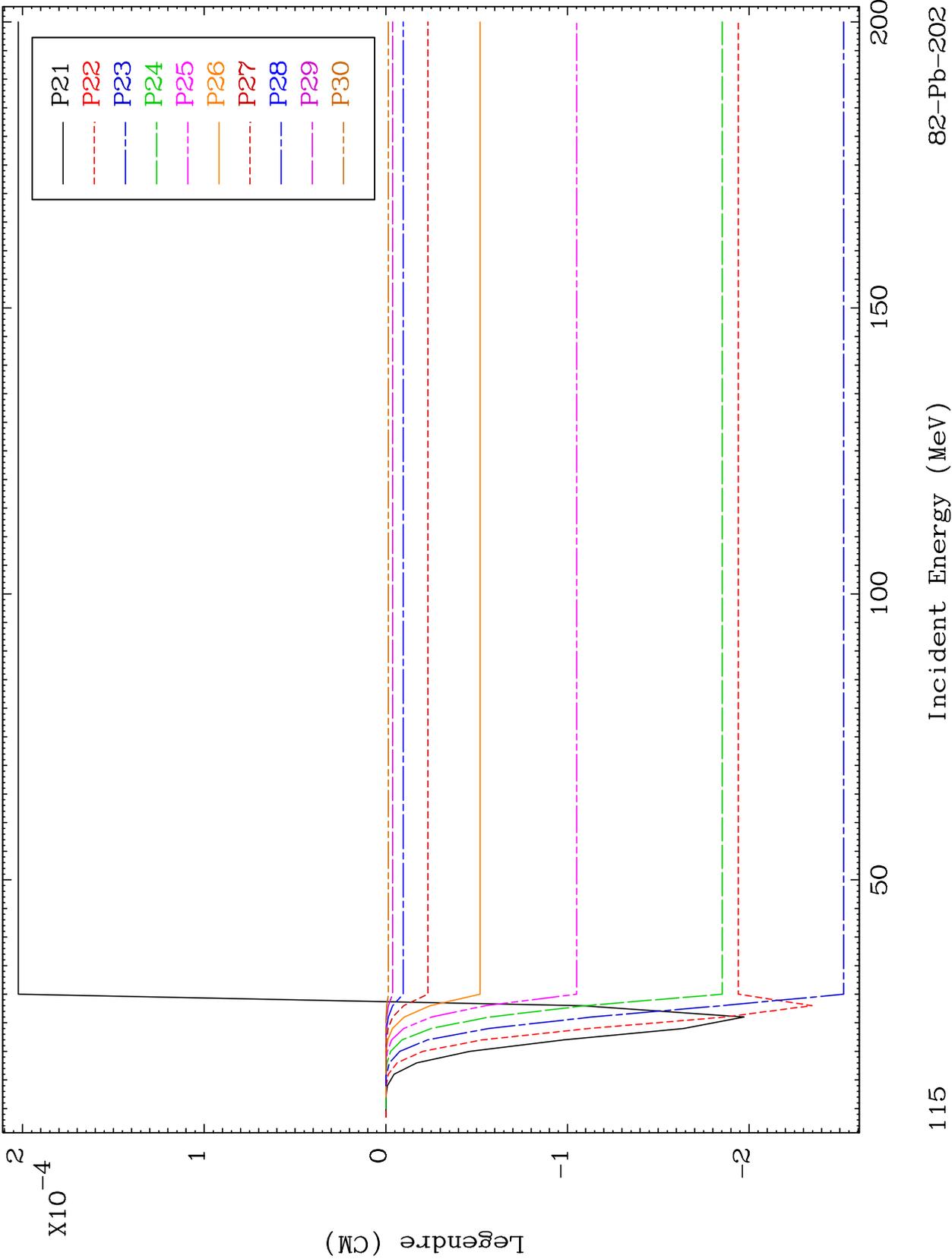
Incident Energy (MeV)

82-Pb-202

MAT 8219

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

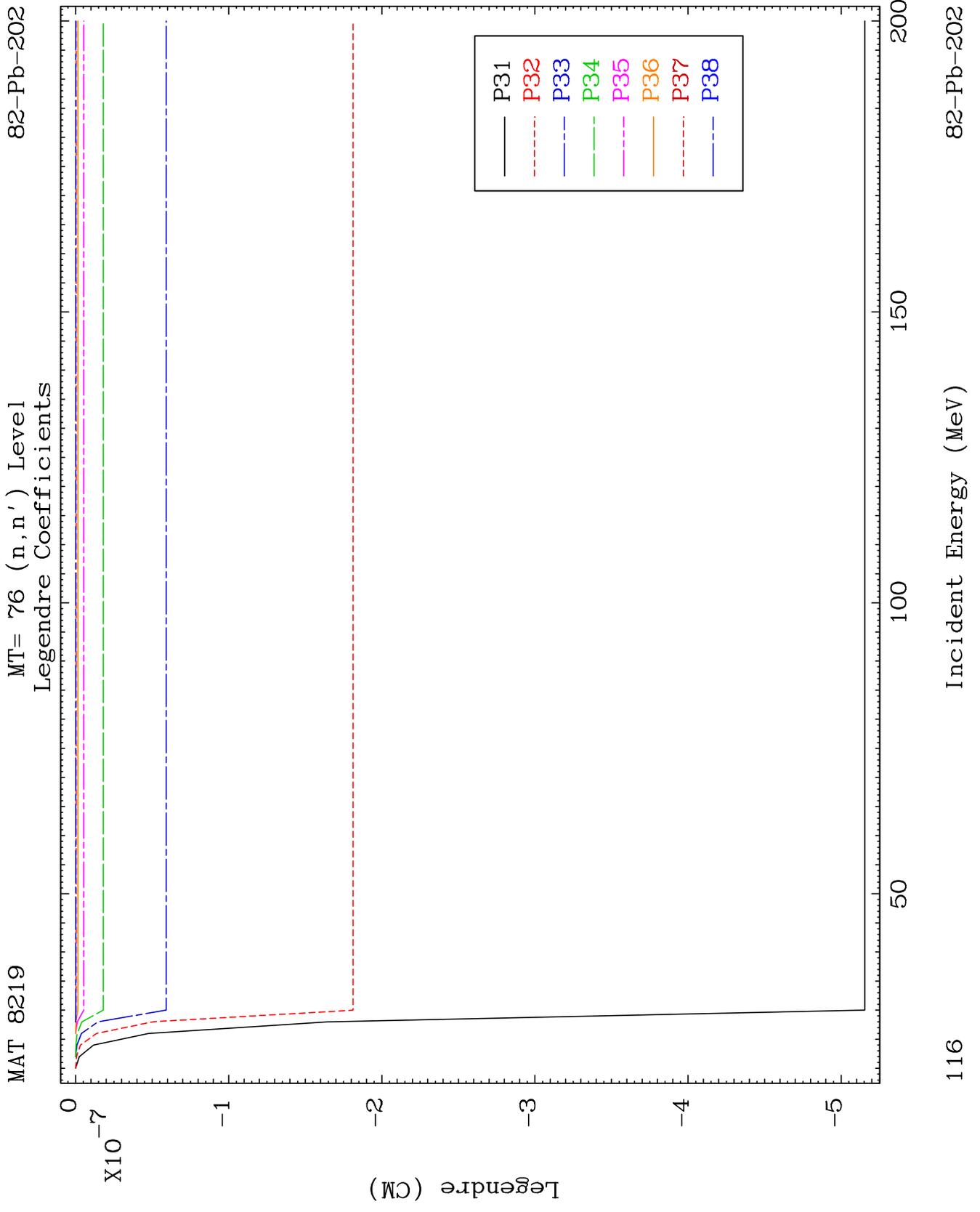
82-Pb-202



115

Incident Energy (MeV)

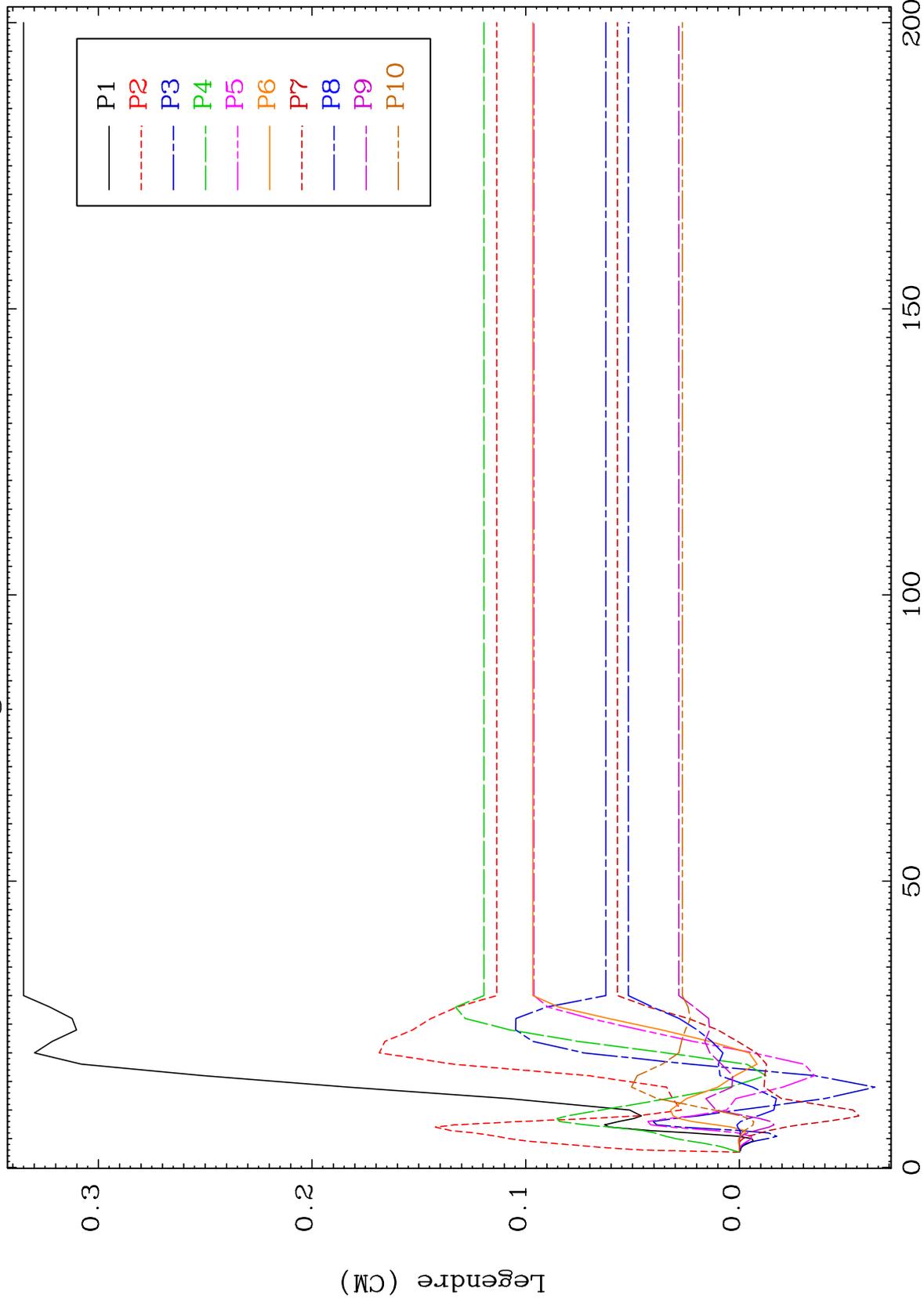
82-Pb-202



MAT 8219

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

82-Pb-202



117

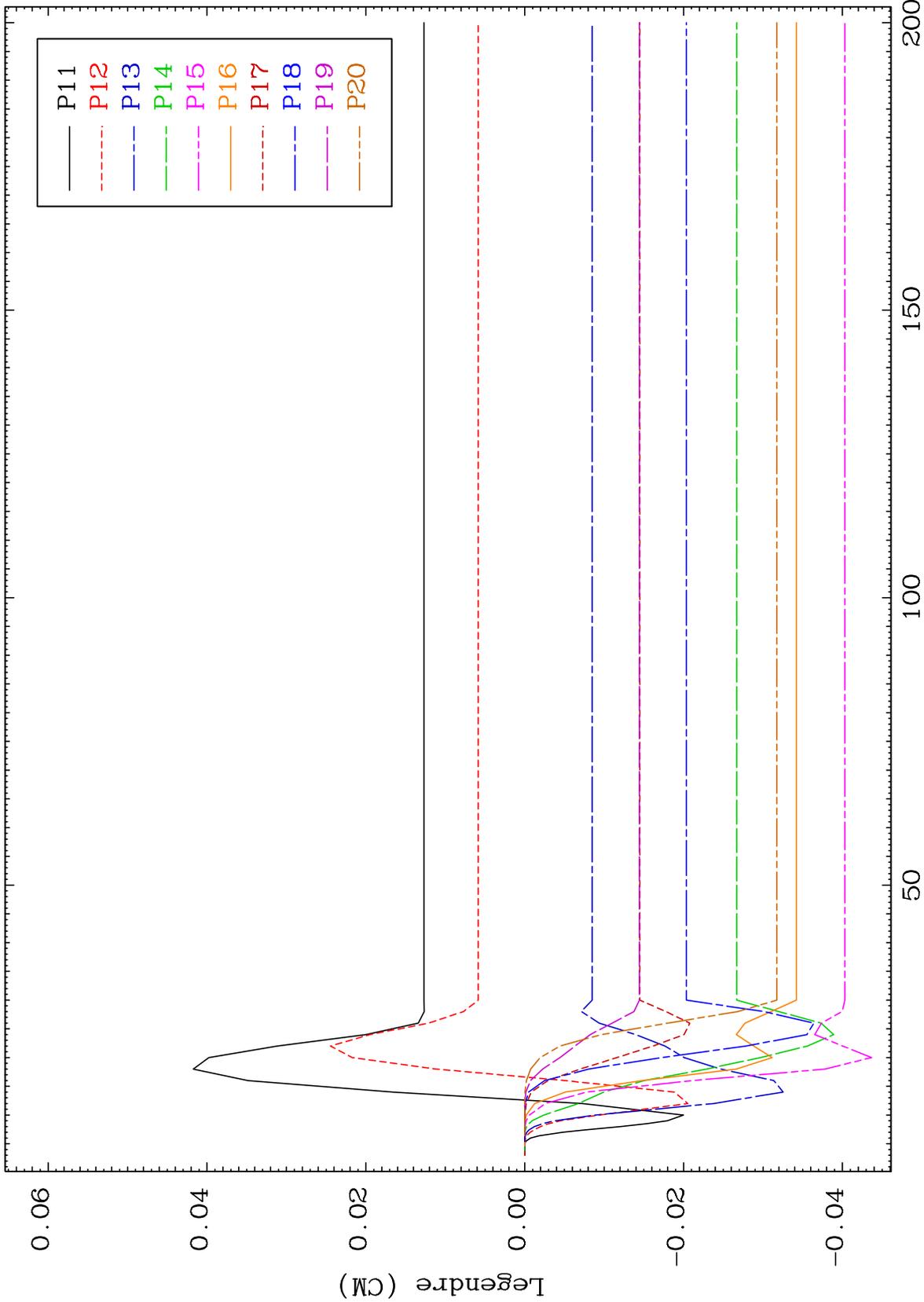
Incident Energy (MeV)

82-Pb-202

MAT 8219

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

82-Pb-202



118

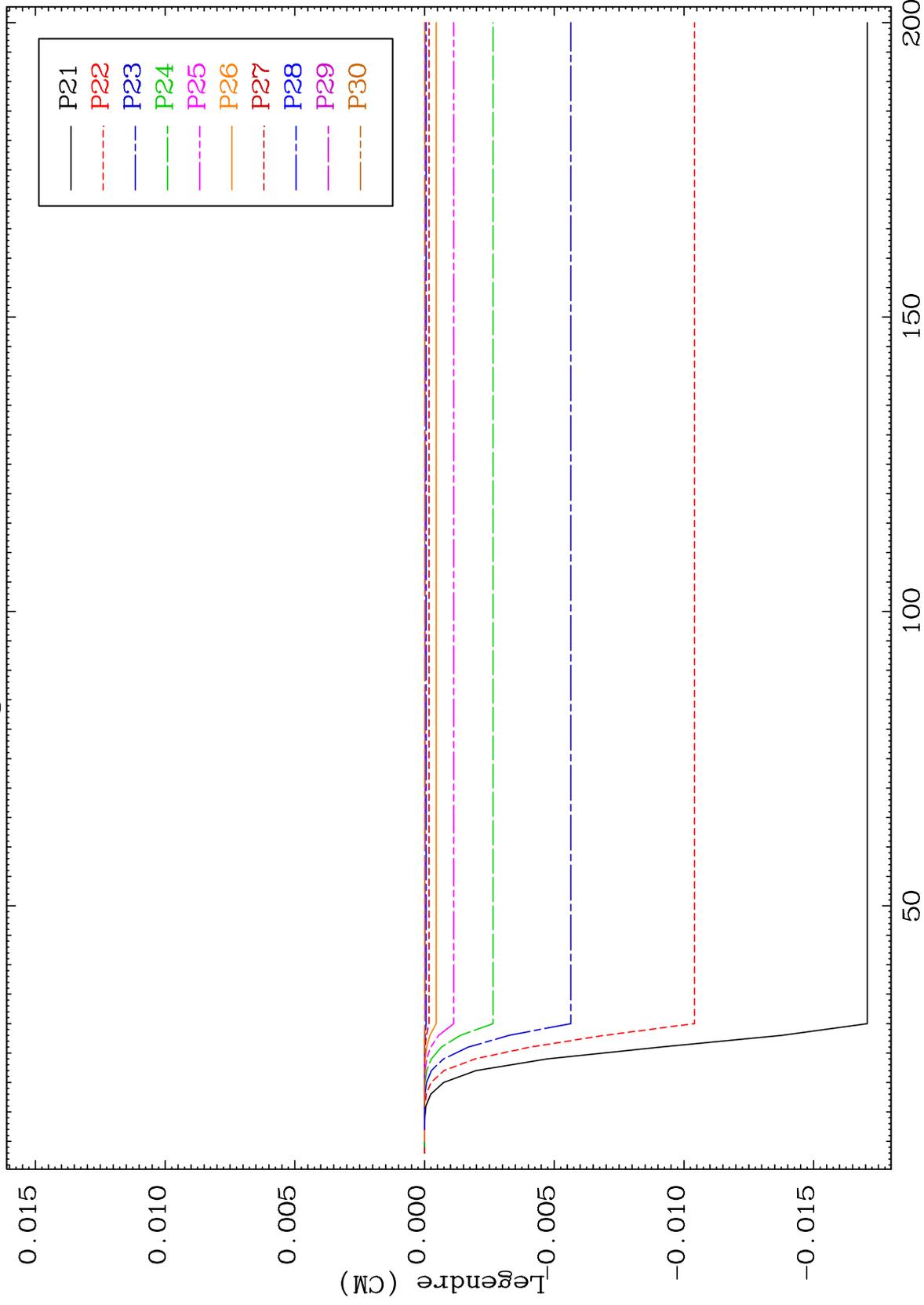
Incident Energy (MeV)

82-Pb-202

MAT 8219

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

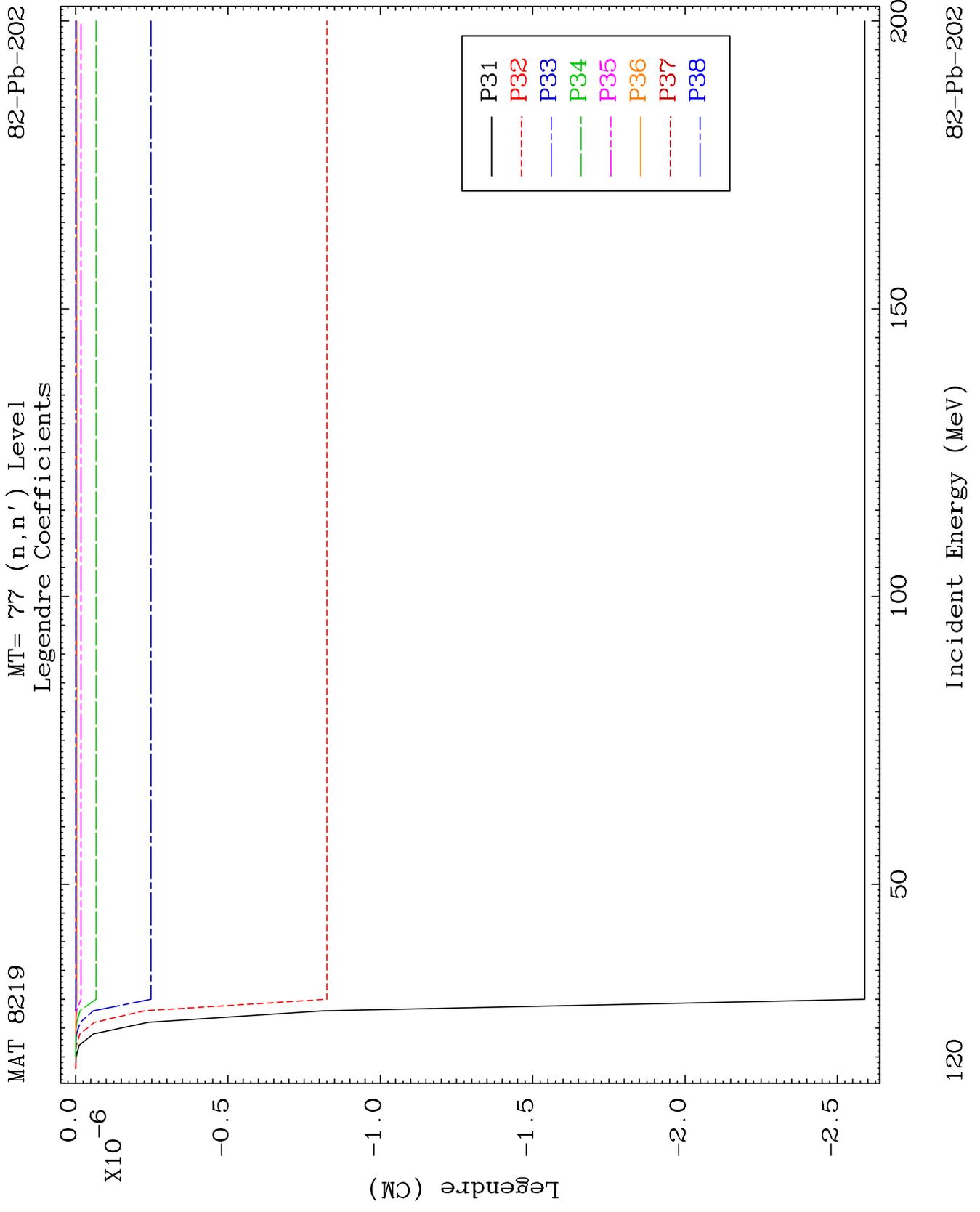
82-Pb-202



119

Incident Energy (MeV)

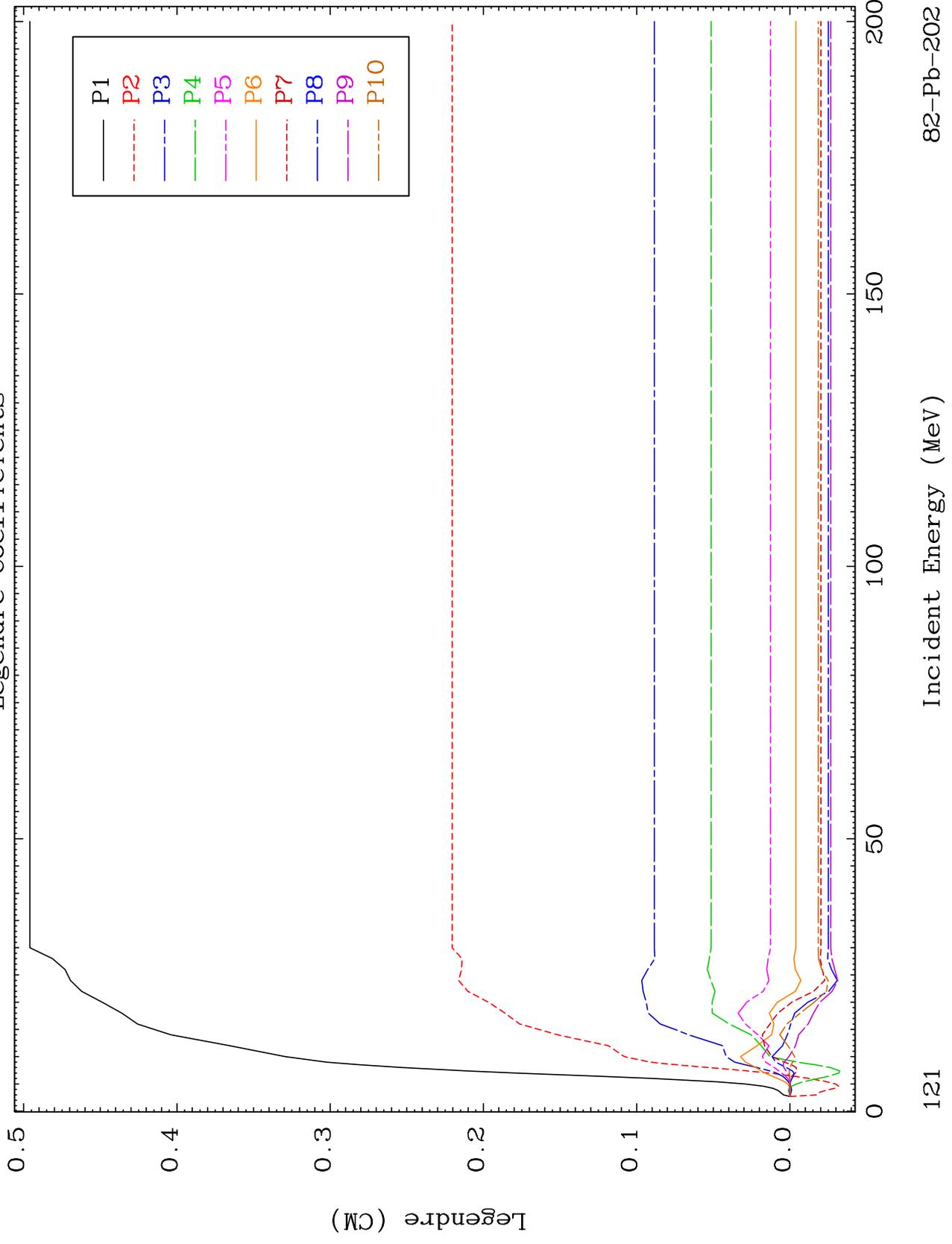
82-Pb-202



MAT 8219

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

82-Pb-202



121

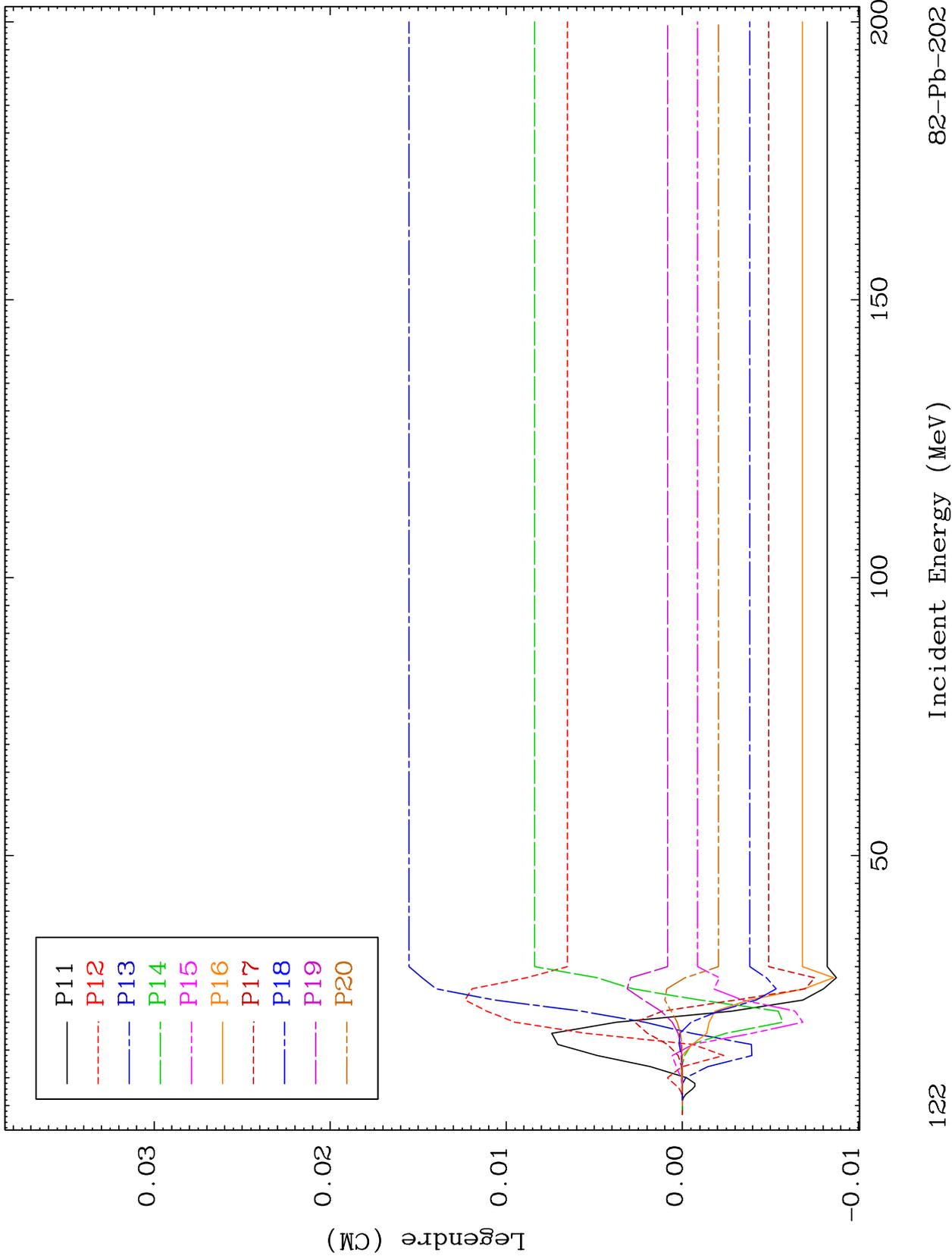
Incident Energy (MeV)

82-Pb-202

MAT 8219

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

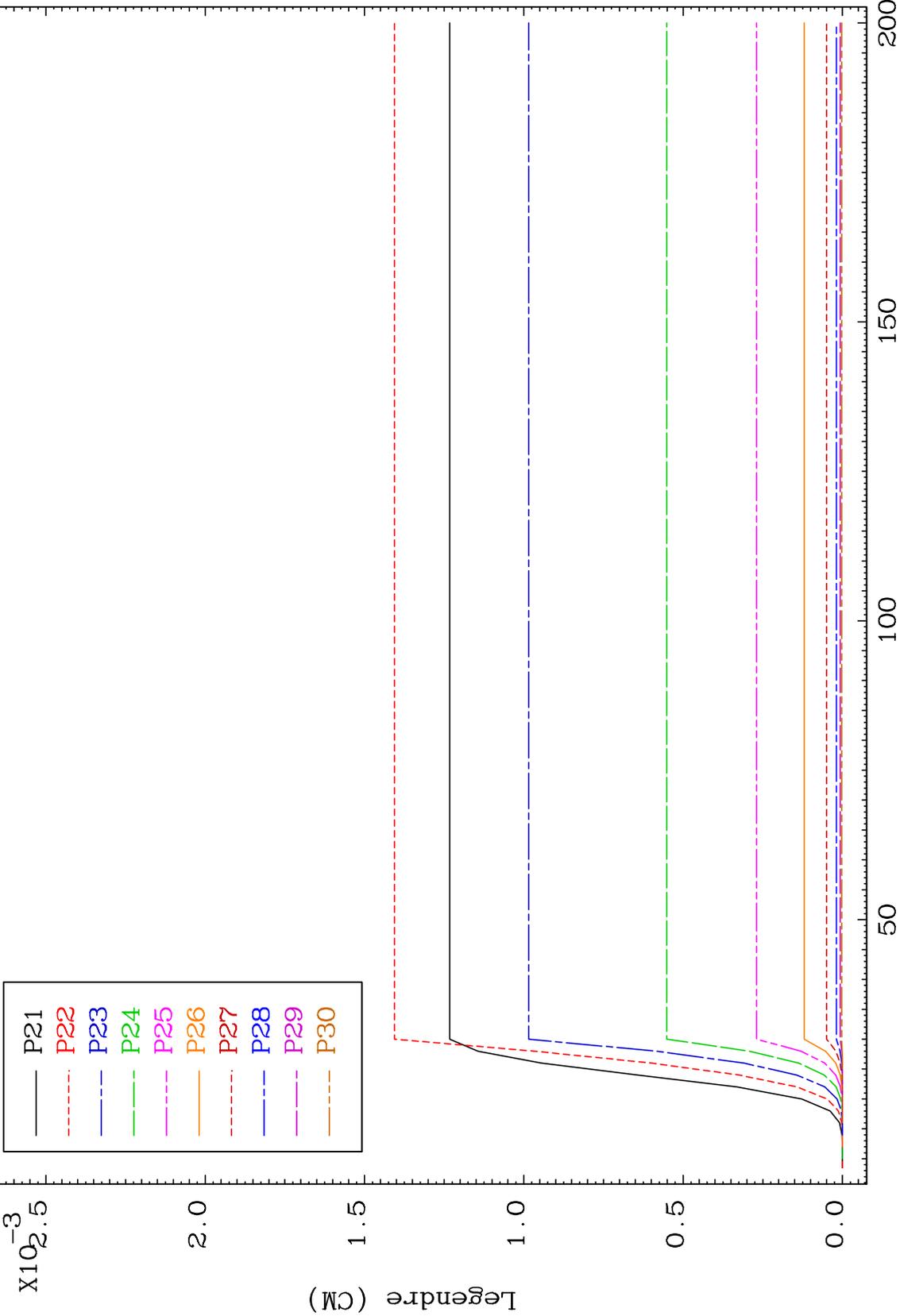
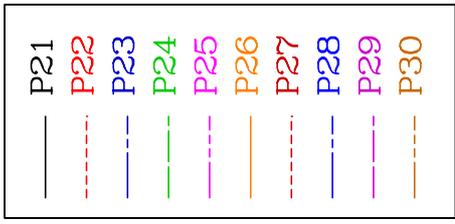
82-Pb-202



MAT 8219

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

82-Pb-202



123

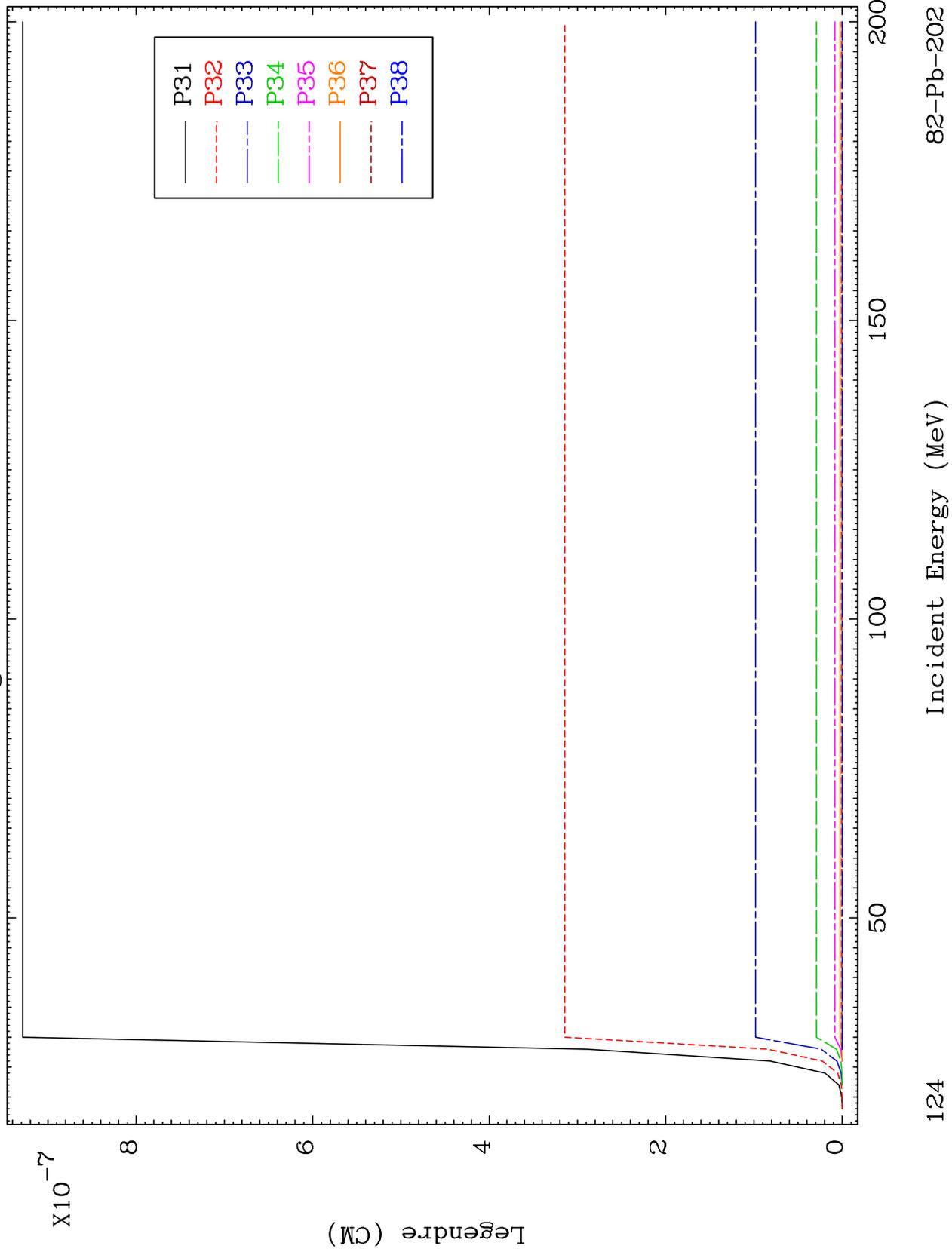
Incident Energy (MeV)

82-Pb-202

MAT 8219

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

82-Pb-202

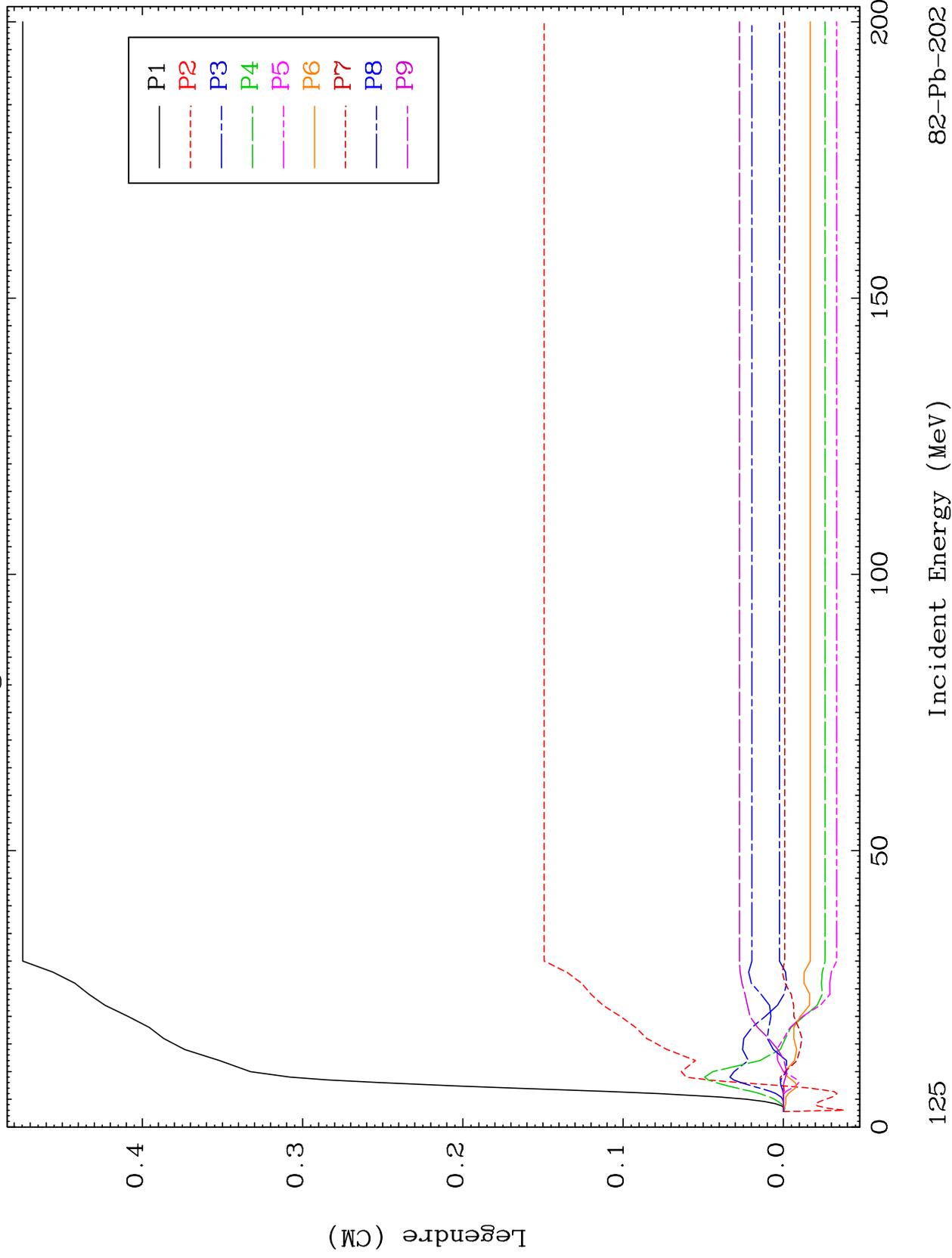


124

MAT 8219

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

82-Pb-202



82-Pb-202

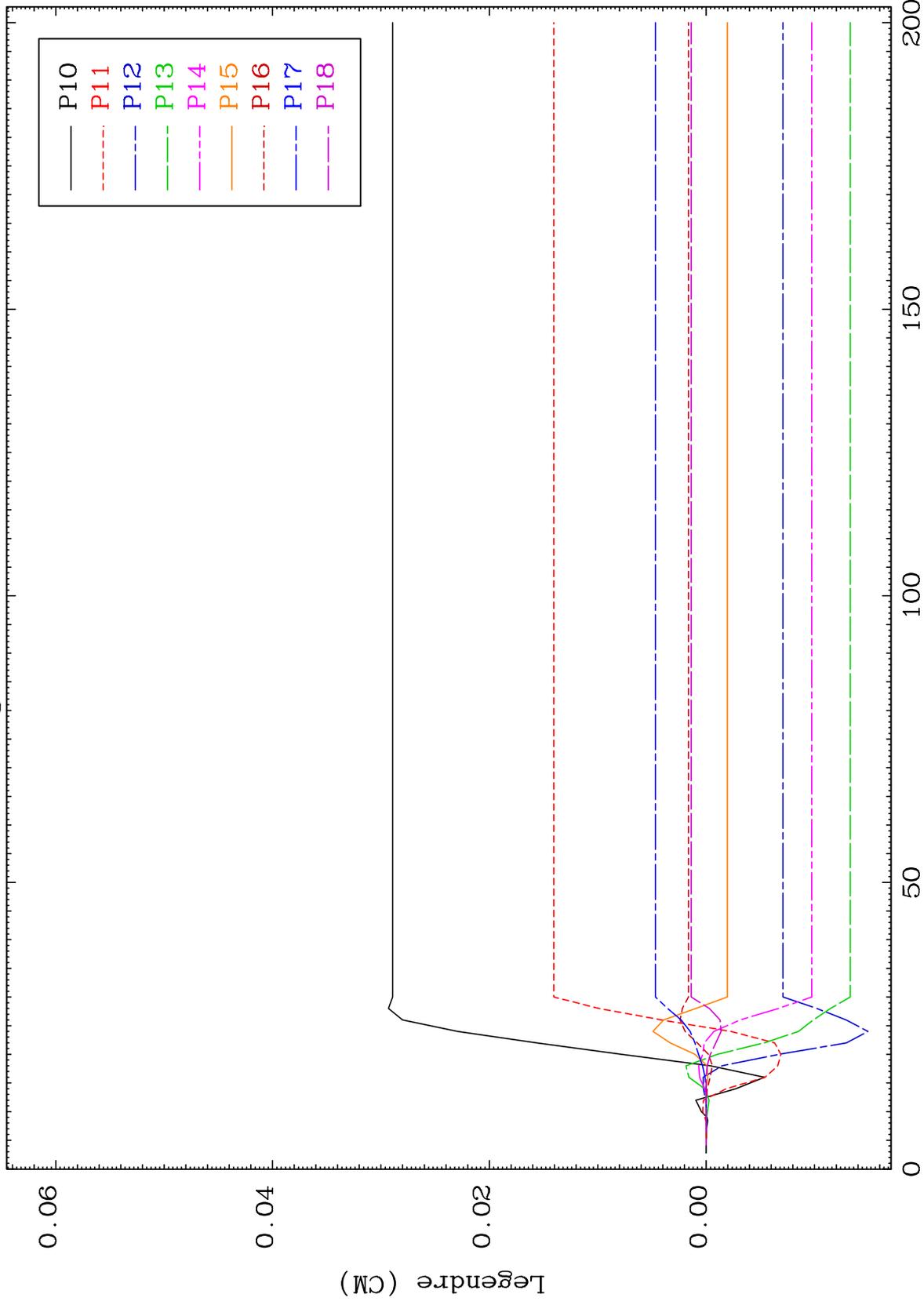
Incident Energy (MeV)

125

MAT 8219

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

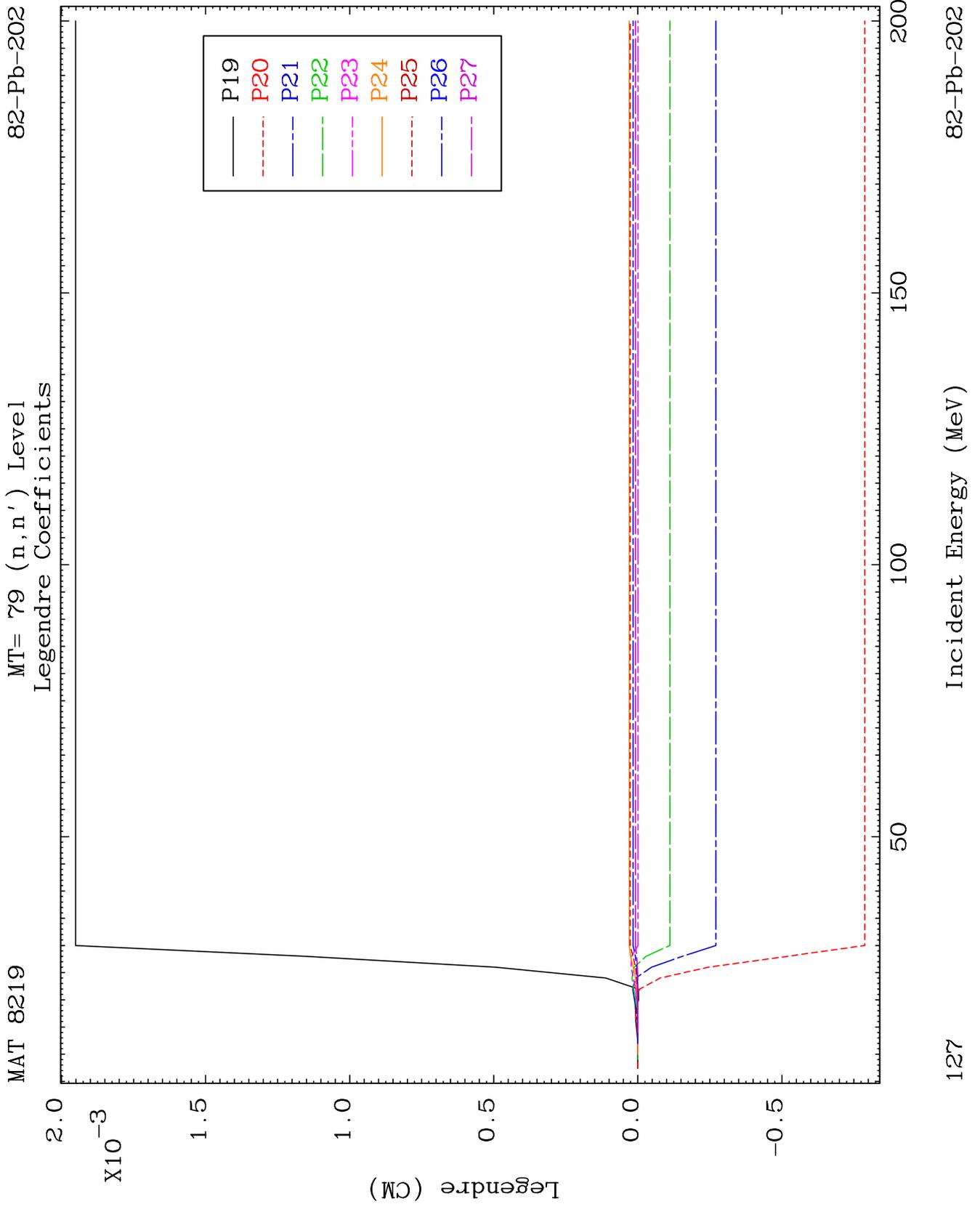
82-Pb-202



126

Incident Energy (MeV)

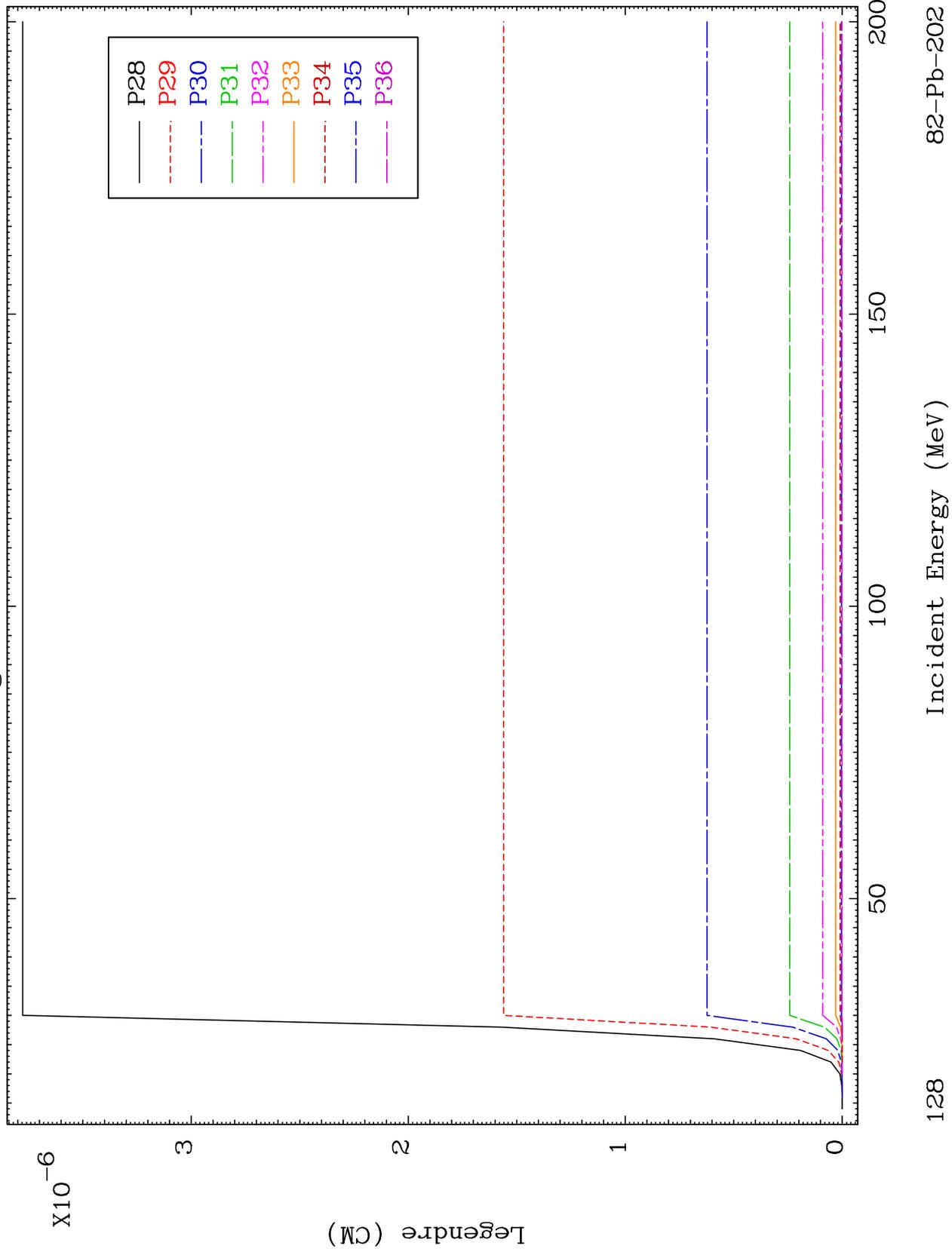
82-Pb-202



MAT 8219

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

82-Pb-202



128

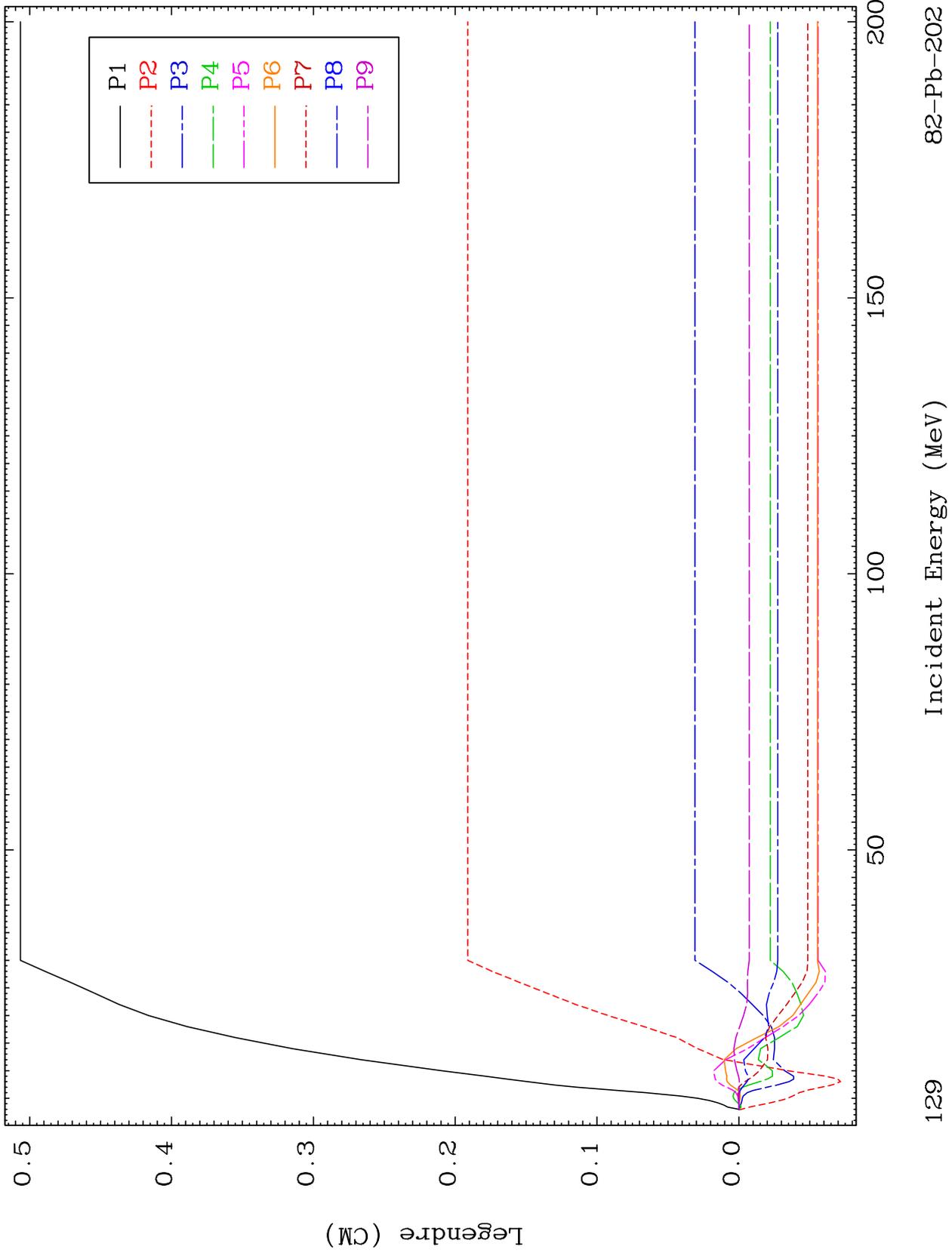
Incident Energy (MeV)

82-Pb-202

MAT 8219

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

82-Pb-202



129

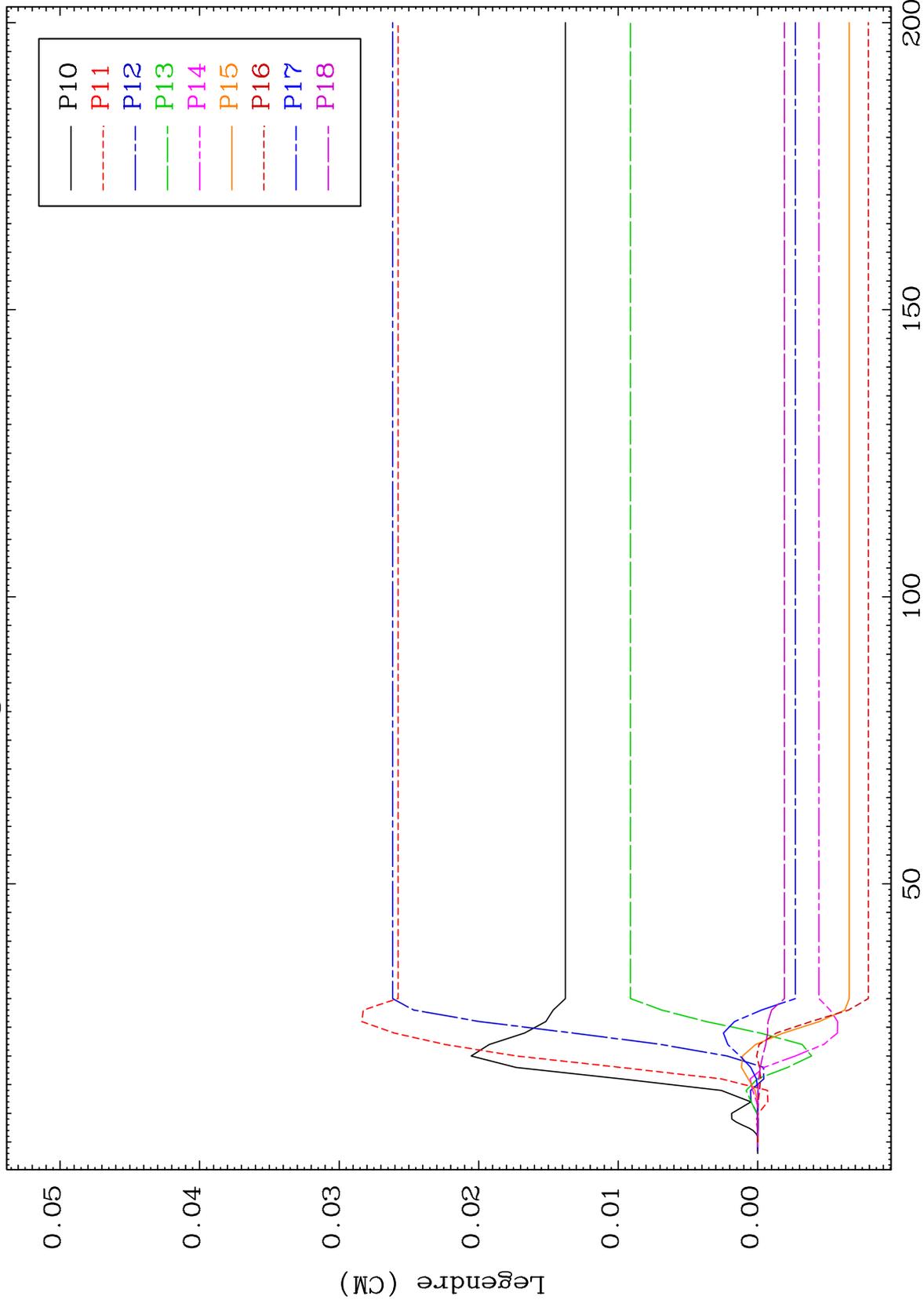
Incident Energy (MeV)

82-Pb-202

MAT 8219

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

82-Pb-202



130

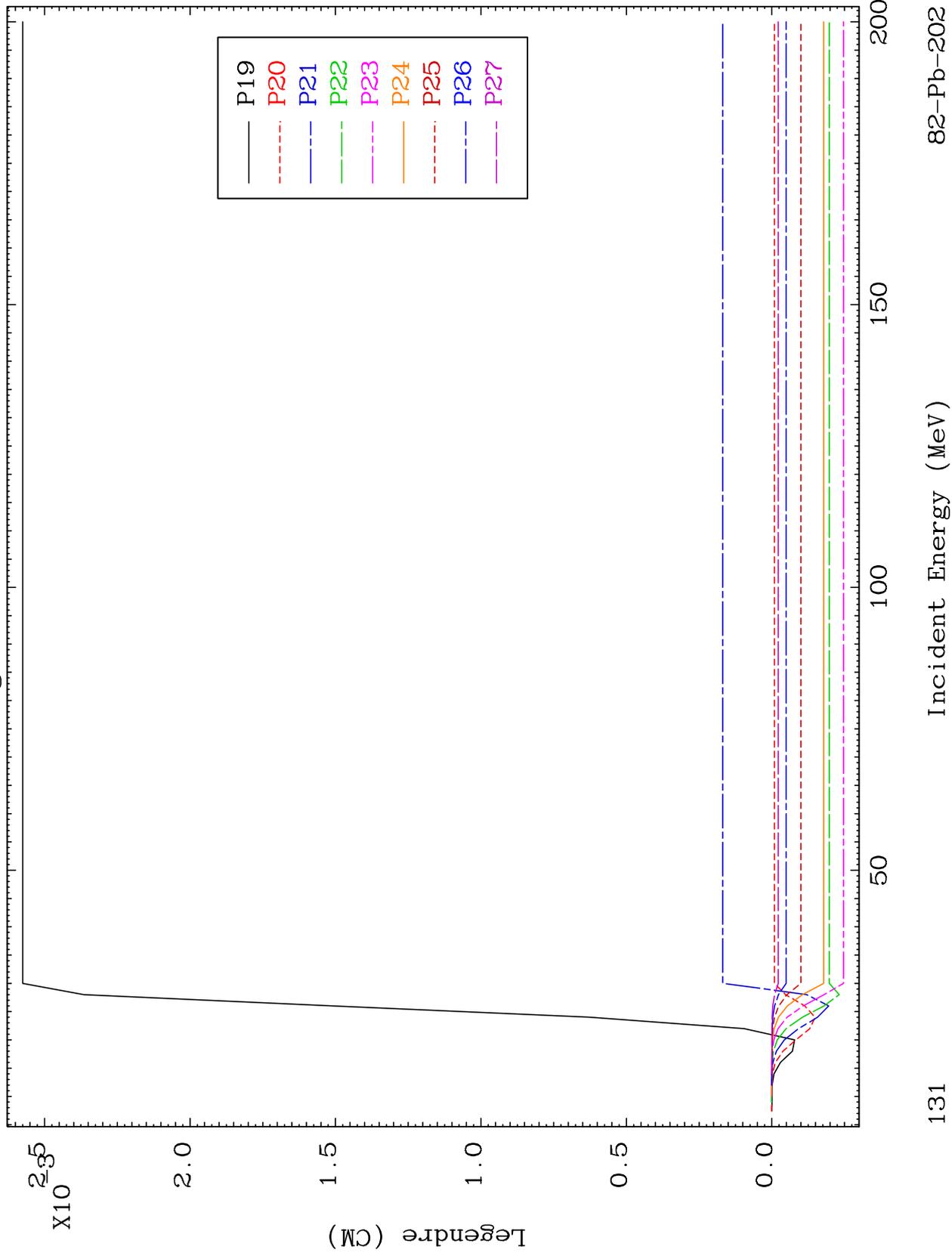
Incident Energy (MeV)

82-Pb-202

MAT 8219

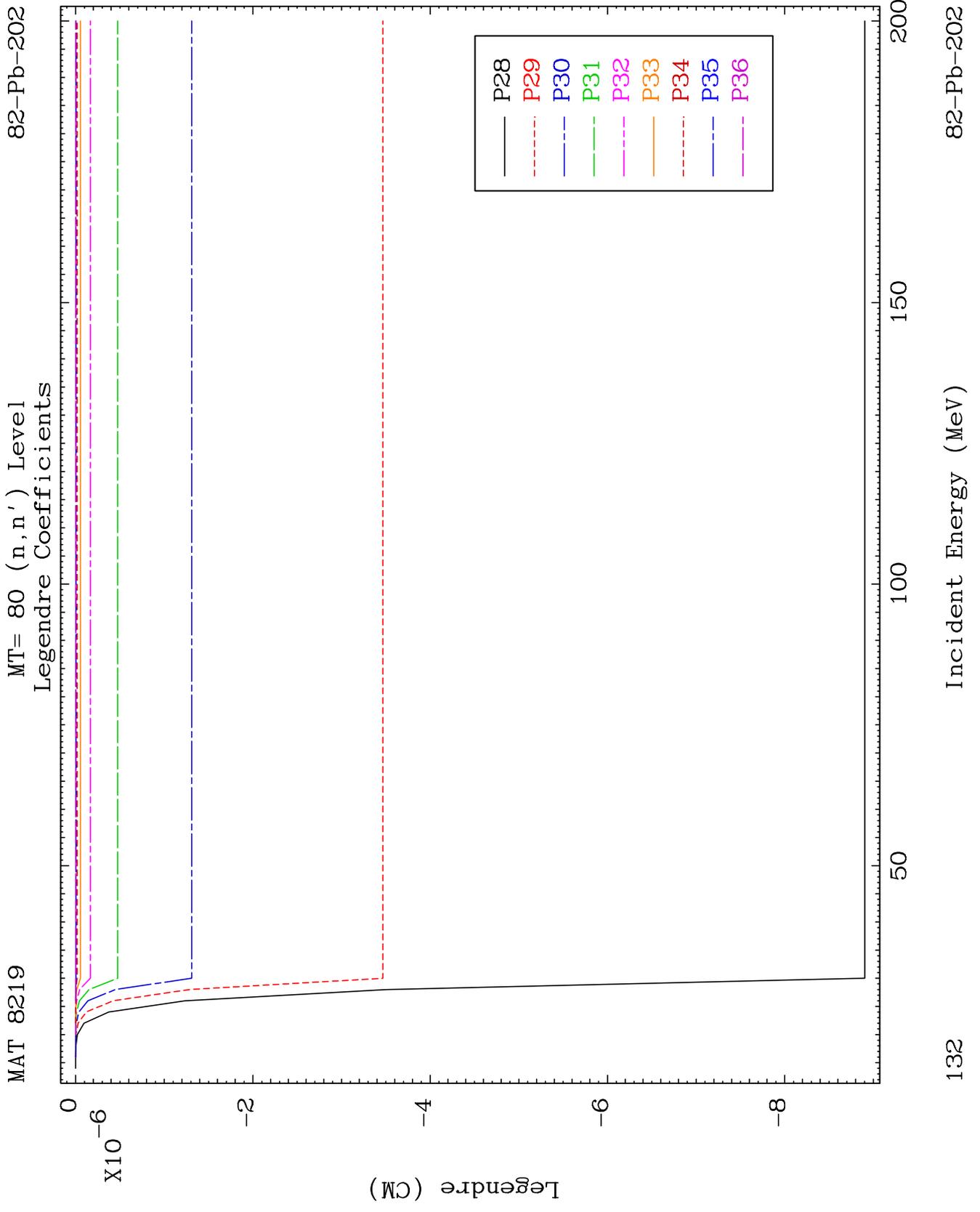
MT= 80 (n,n') Level  
Legendre Coefficients

82-Pb-202



131

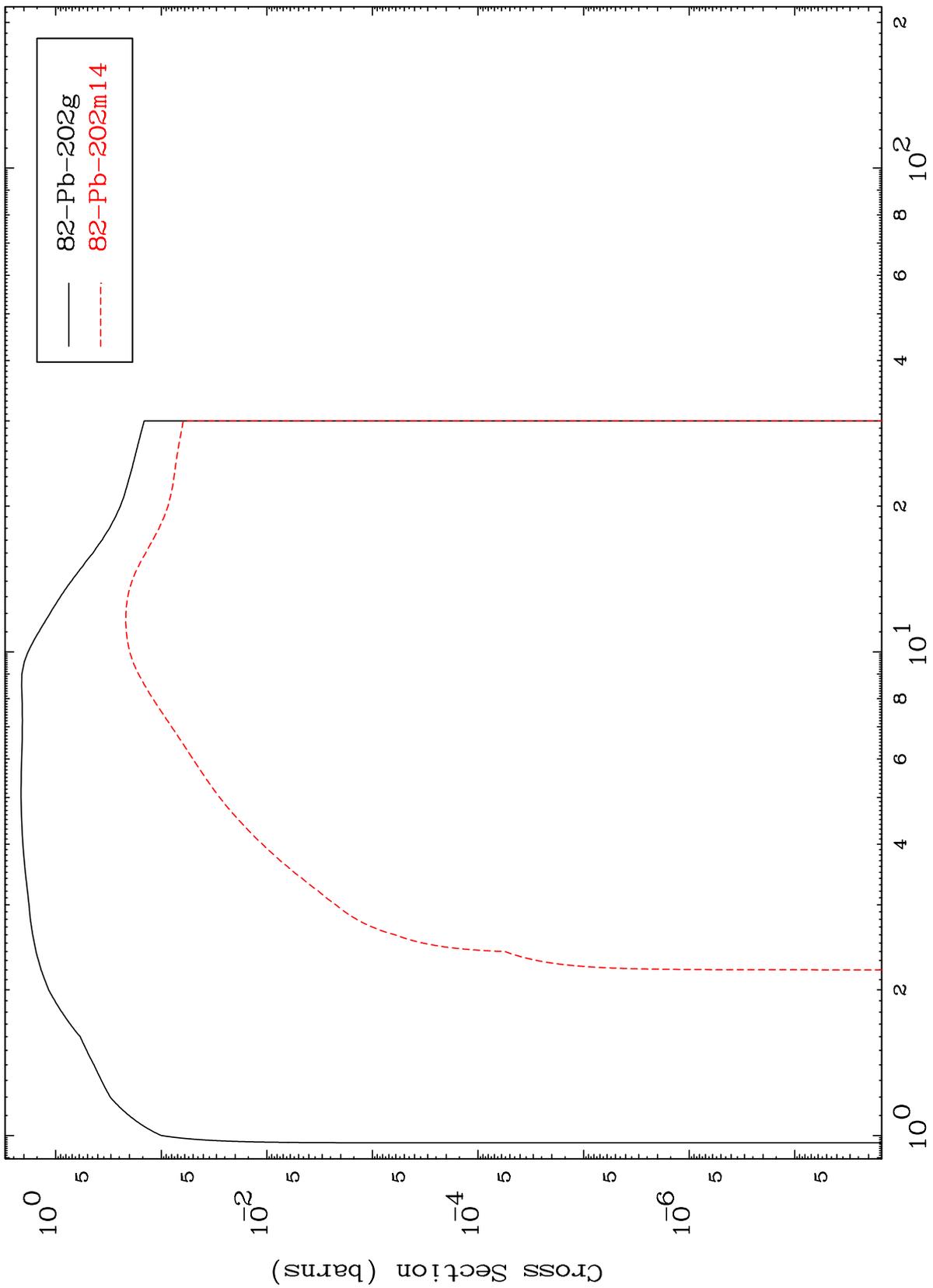
82-Pb-202



MAT 8219

82-Pb-202

Inelastic  
Radionuclide Production Cross Section



Incident Energy (MeV)

82-Pb-202

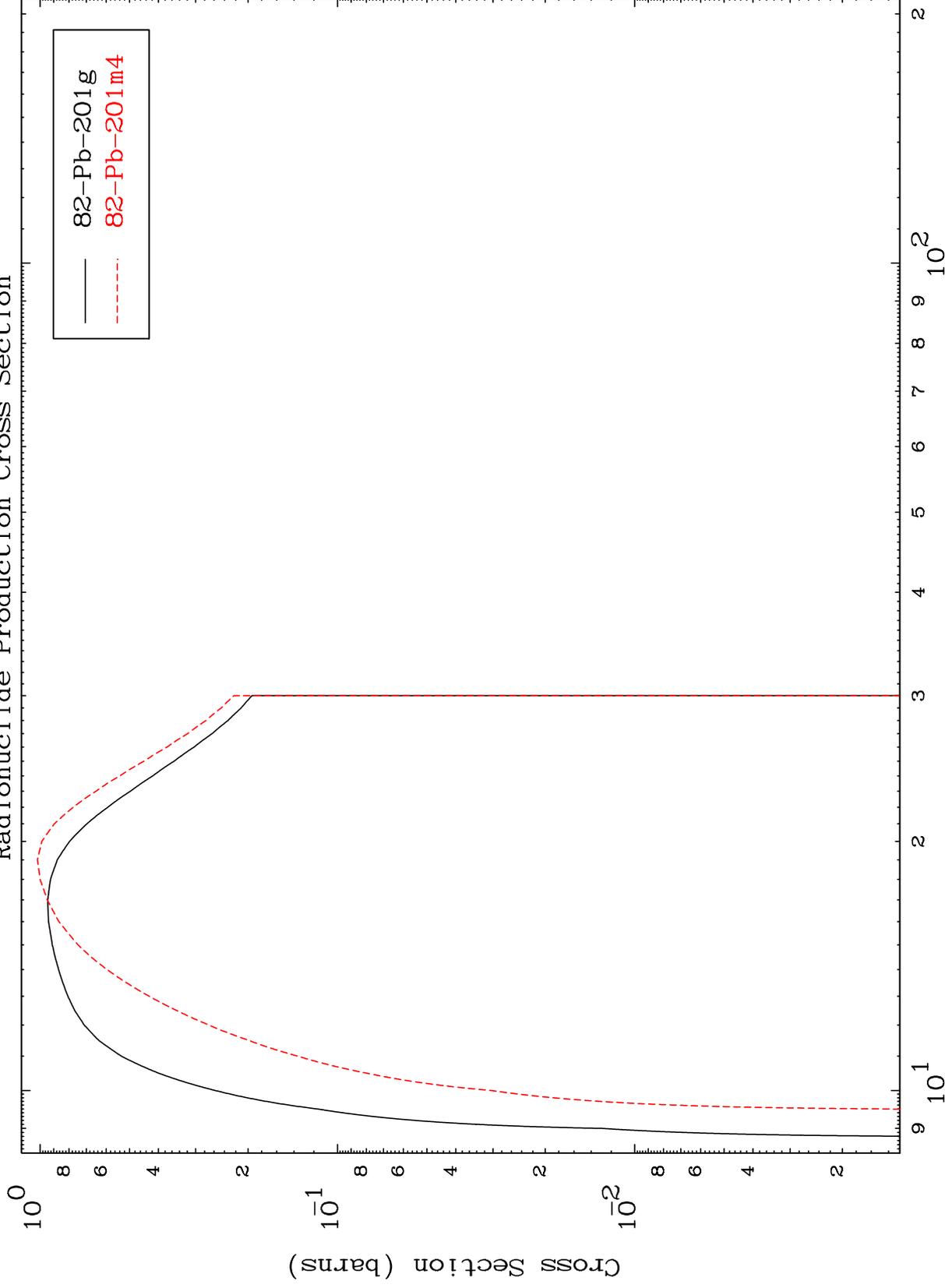
133

MAT 8219

(n,2n)

82-Pb-202

Radionuclide Production Cross Section



134

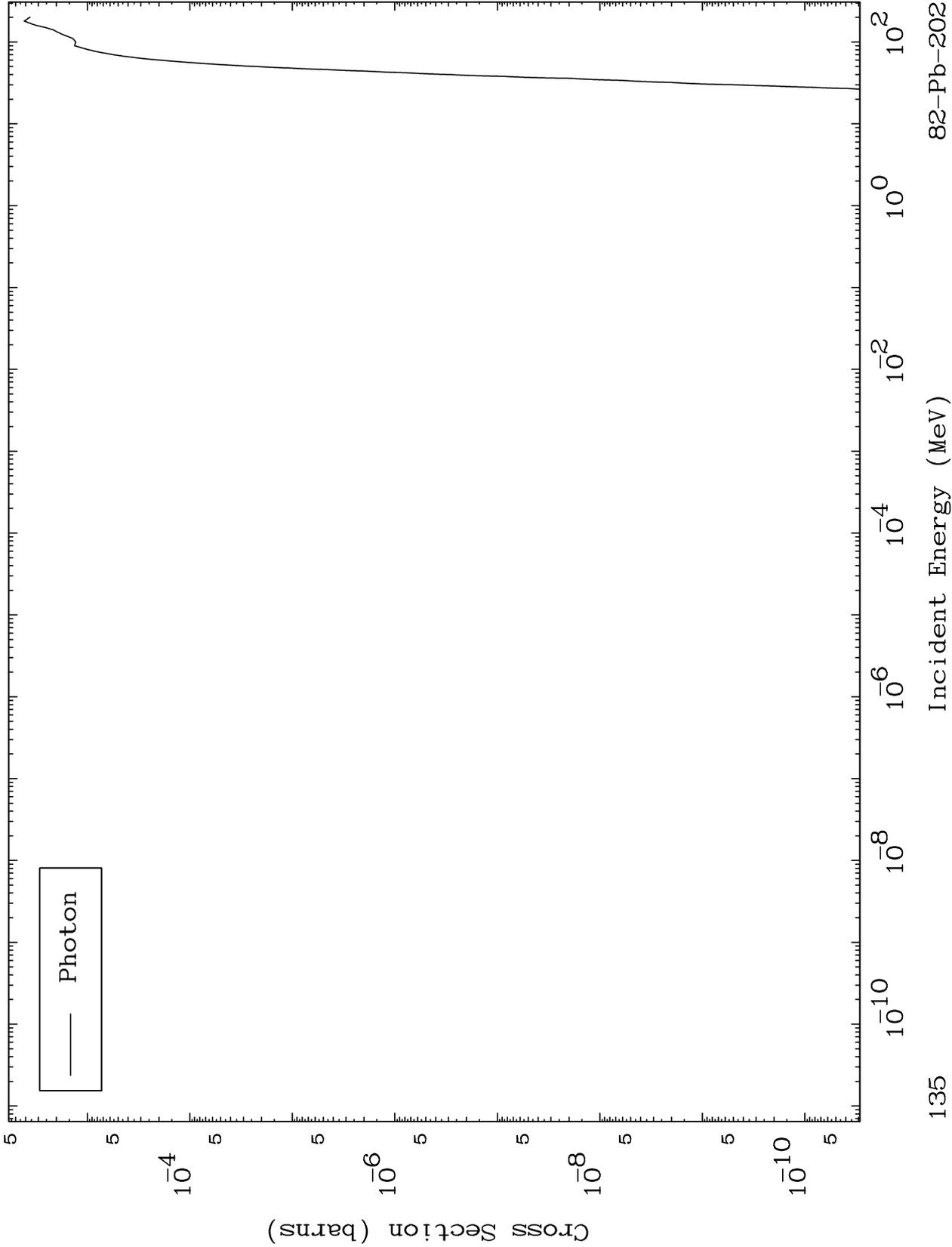
Incident Energy (MeV)

82-Pb-202

MAT 8219

Fission  
Radionuclide Production Cross Section

82-Pb-202



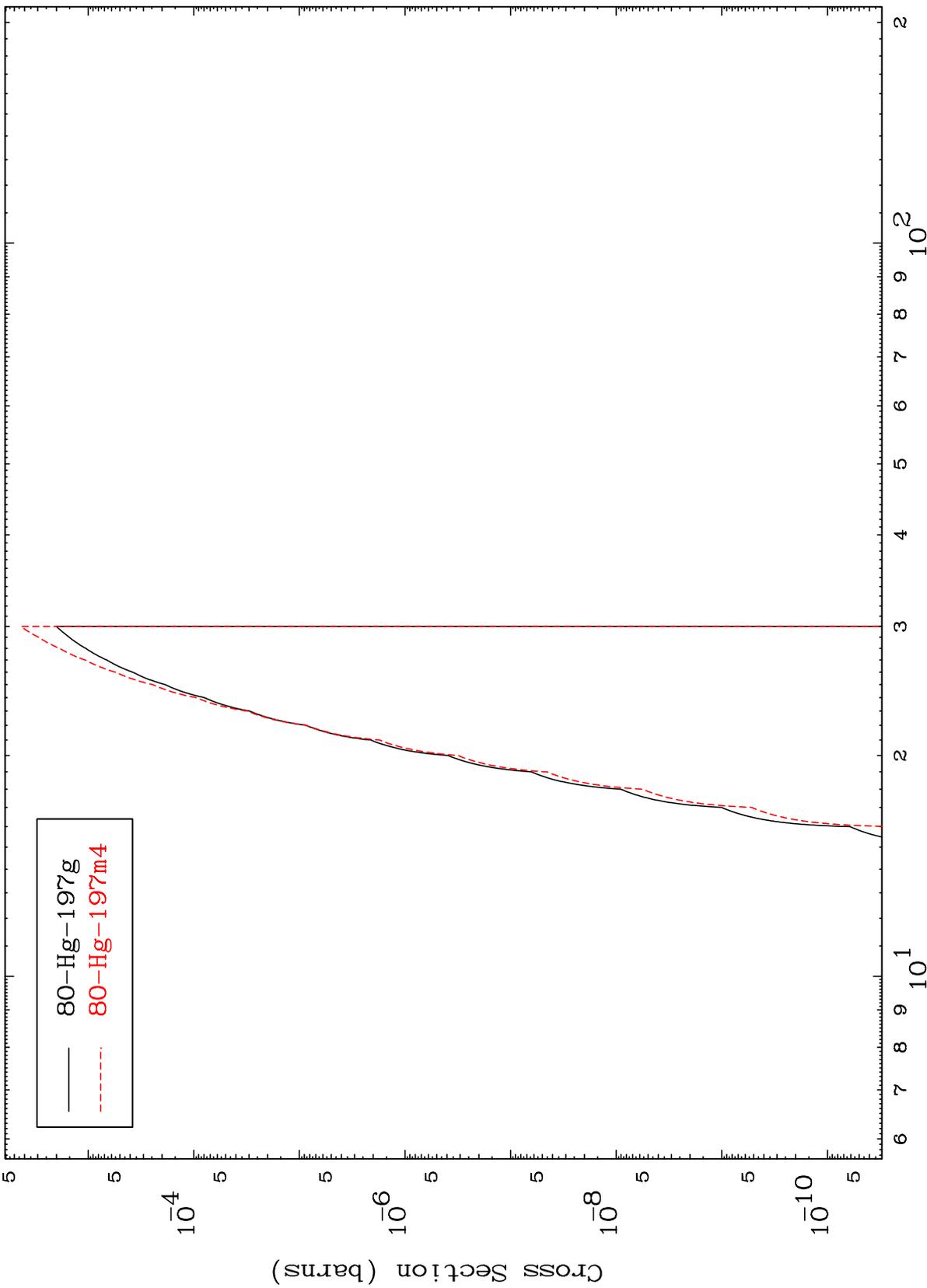
82-Pb-202

MAT 8219

$(n,2n) \alpha$

82-Pb-202

Radionuclide Production Cross Section



136

Incident Energy (MeV)

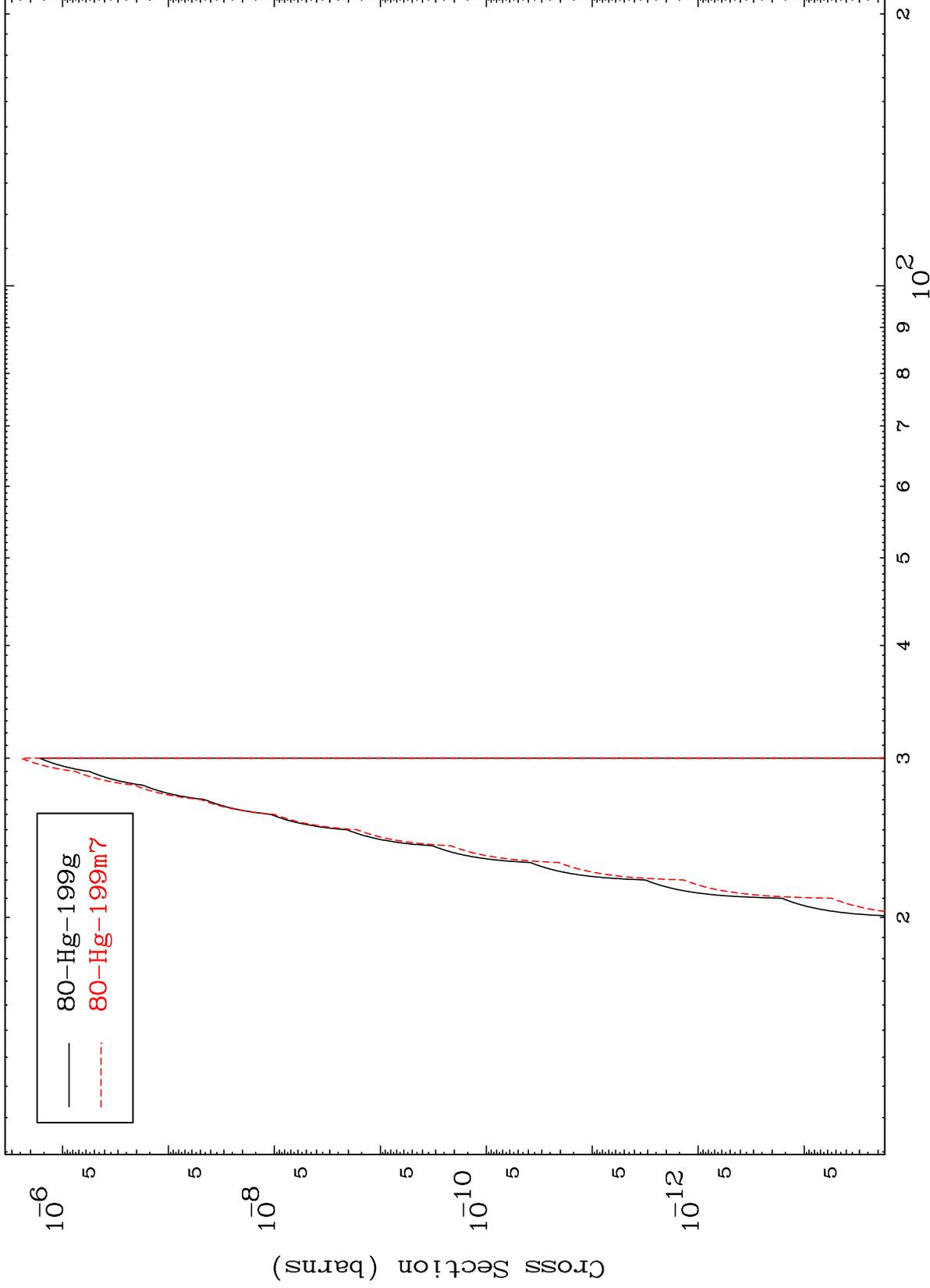
82-Pb-202

MAT 8219

(n,n') He-3

82-Pb-202

Radionuclide Production Cross Section



137

Incident Energy (MeV)

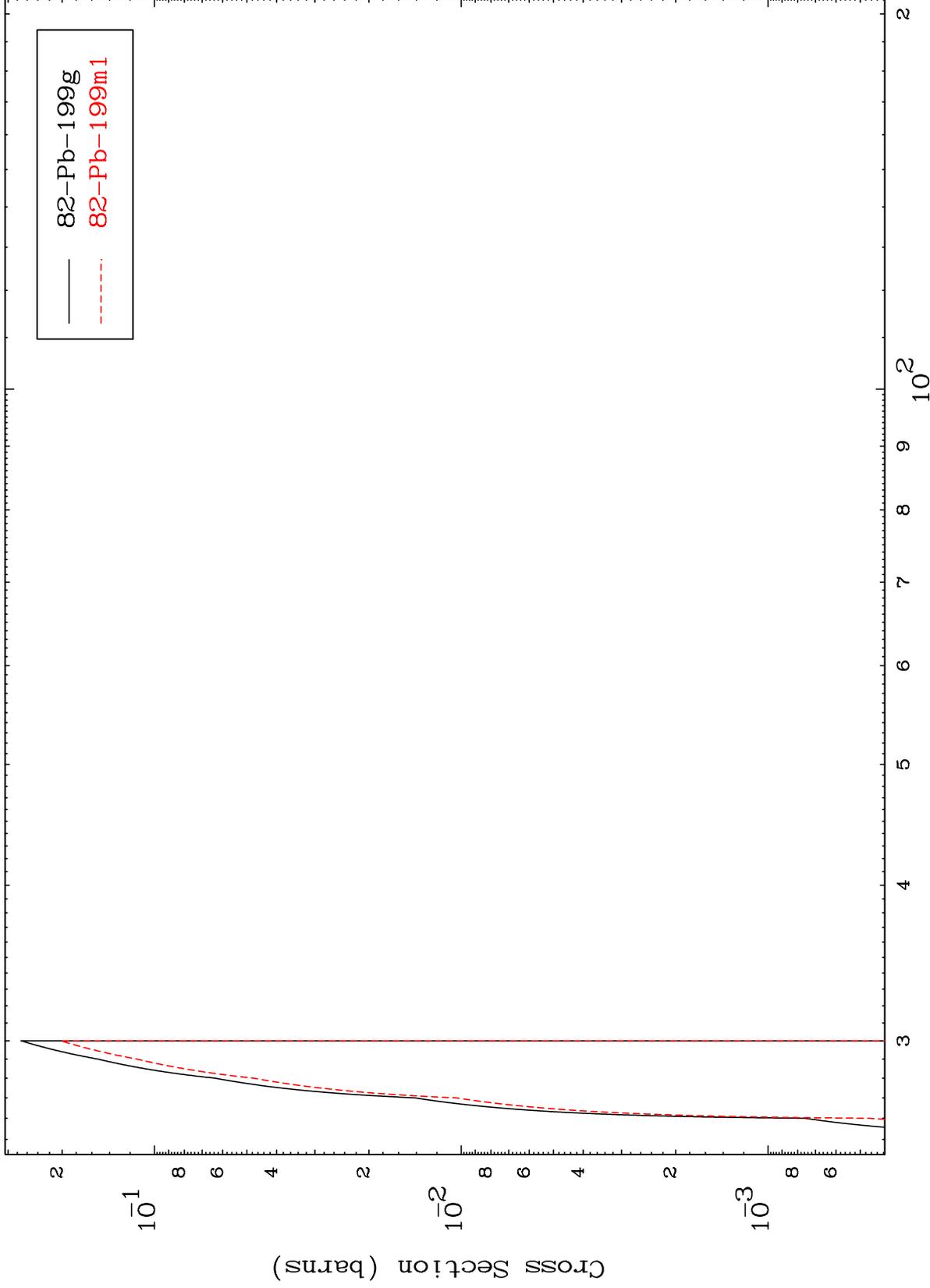
82-Pb-202

MAT 8219

(n,4n)

82-Pb-202

Radionuclide Production Cross Section



138

Incident Energy (MeV)

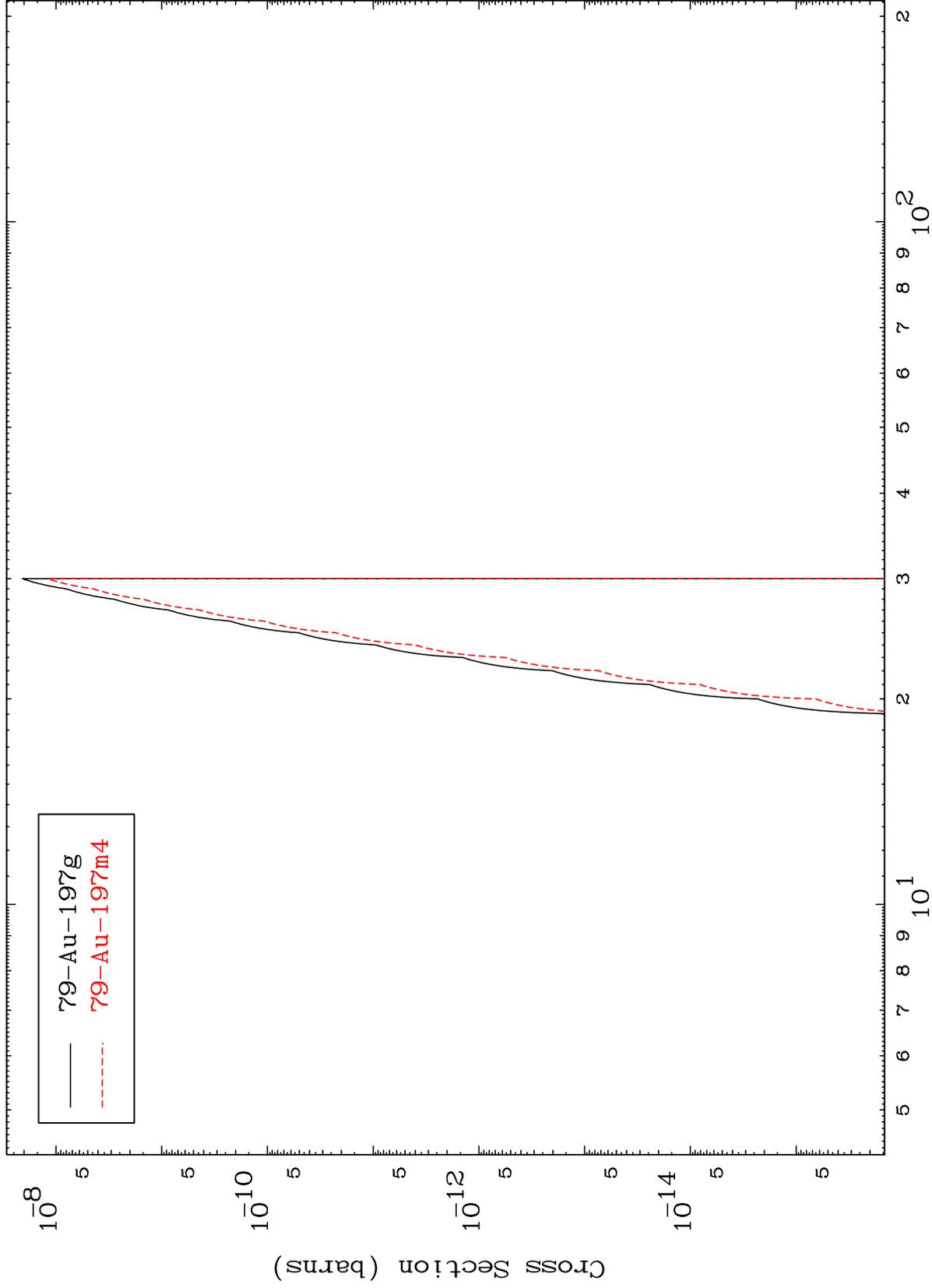
82-Pb-202

MAT 8219

(n,n') p  $\alpha$

82-Pb-202

Radionuclide Production Cross Section



139

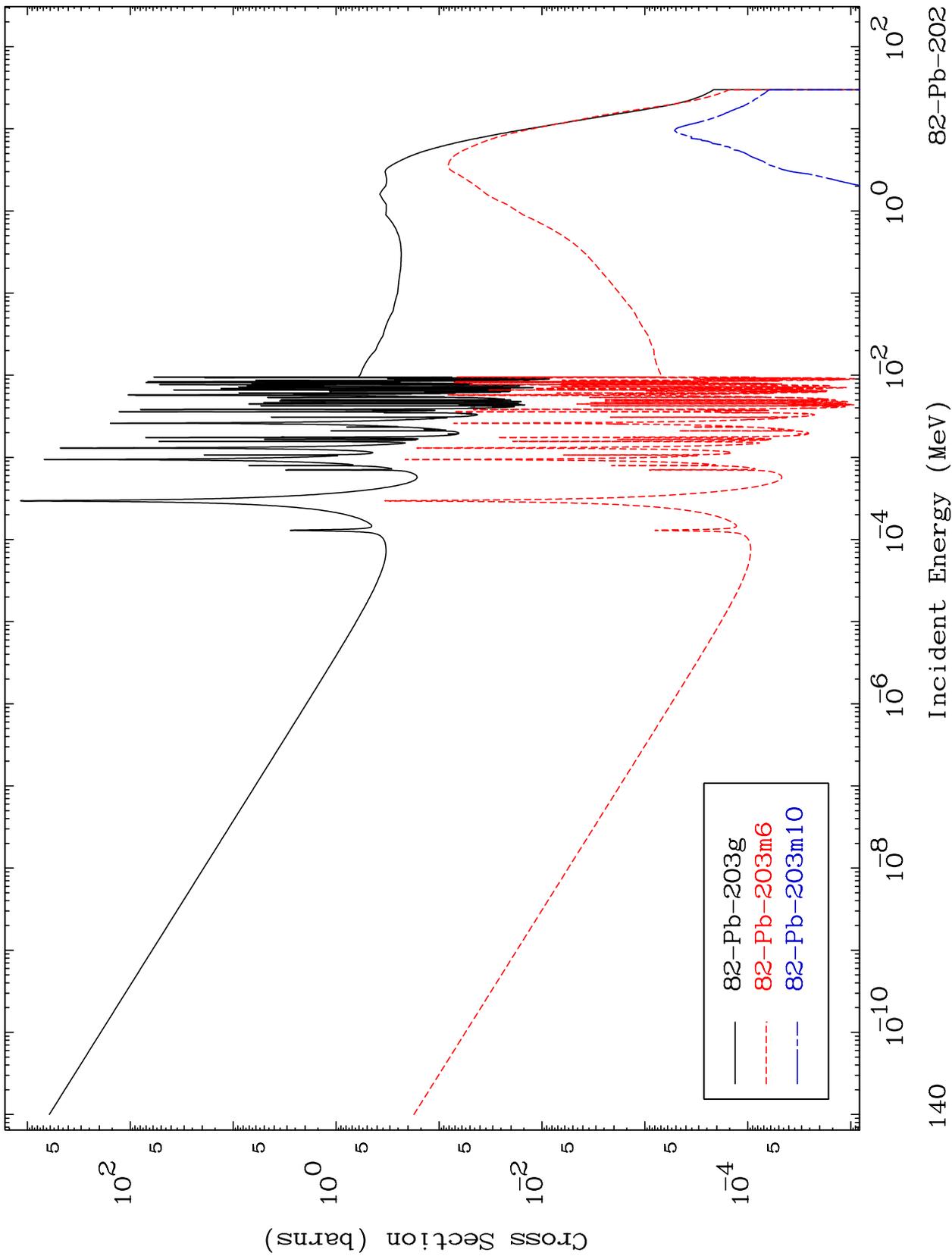
Incident Energy (MeV)

82-Pb-202

MAT 8219

82-Pb-202

(n,γ)  
Radionuclide Production Cross Section



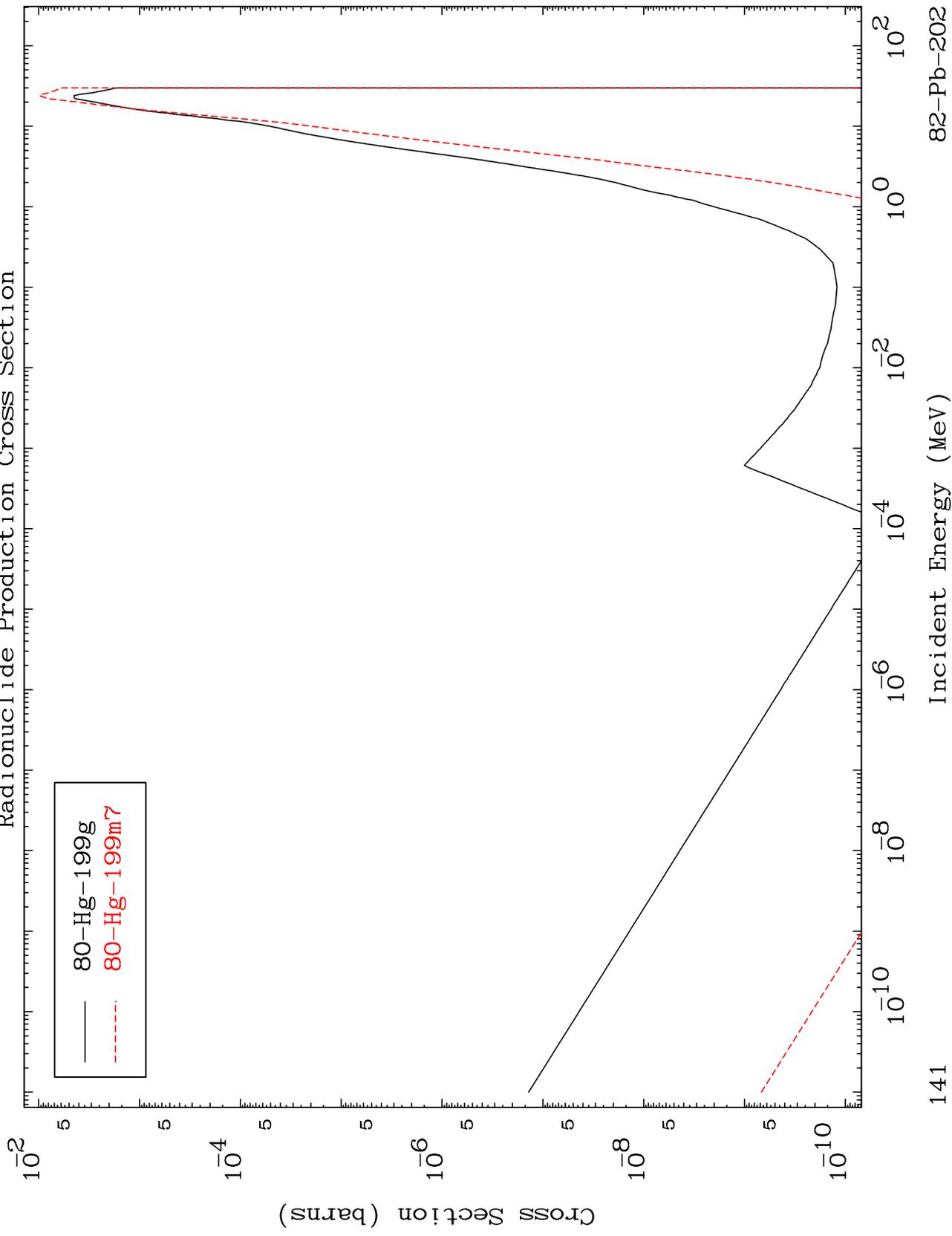
82-Pb-203g  
82-Pb-203m6  
82-Pb-203m10

MAT 8219

(n,  $\alpha$ )

82-Pb-202

Radionuclide Production Cross Section



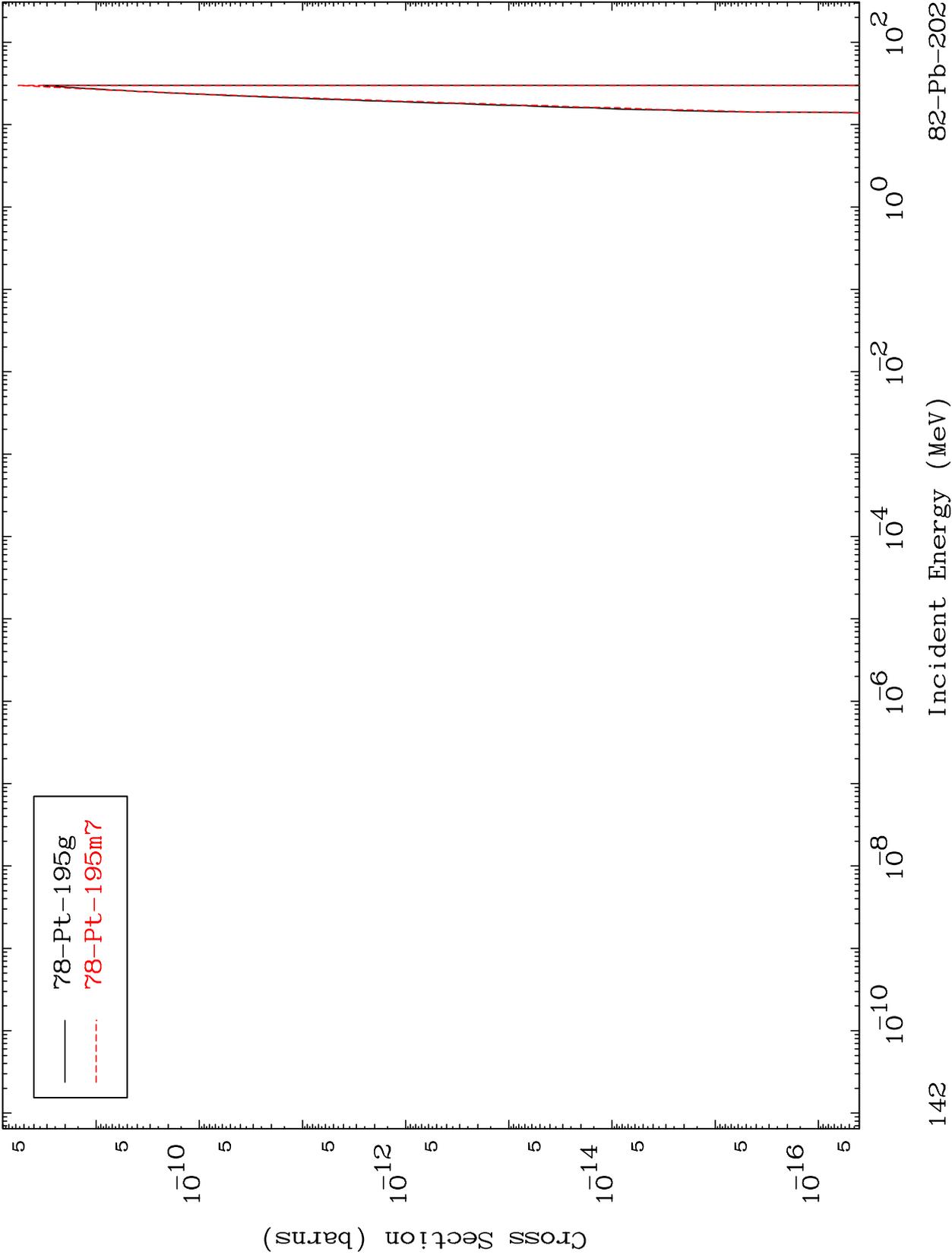
141

MAT 8219

(n,2α)

82-Pb-202

Radionuclide Production Cross Section

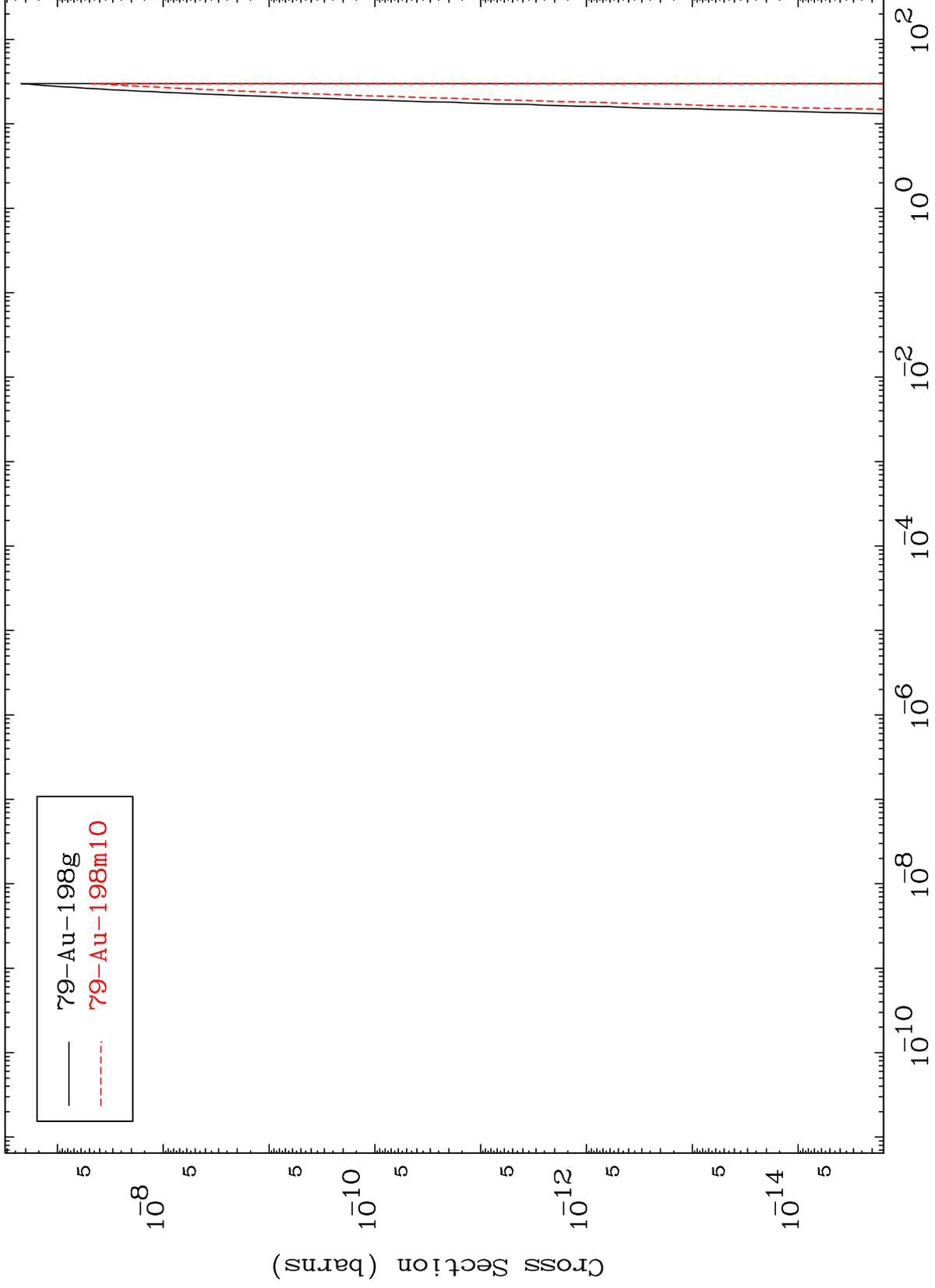


MAT 8219

(n,p)  $\alpha$

82-Pb-202

Radionuclide Production Cross Section

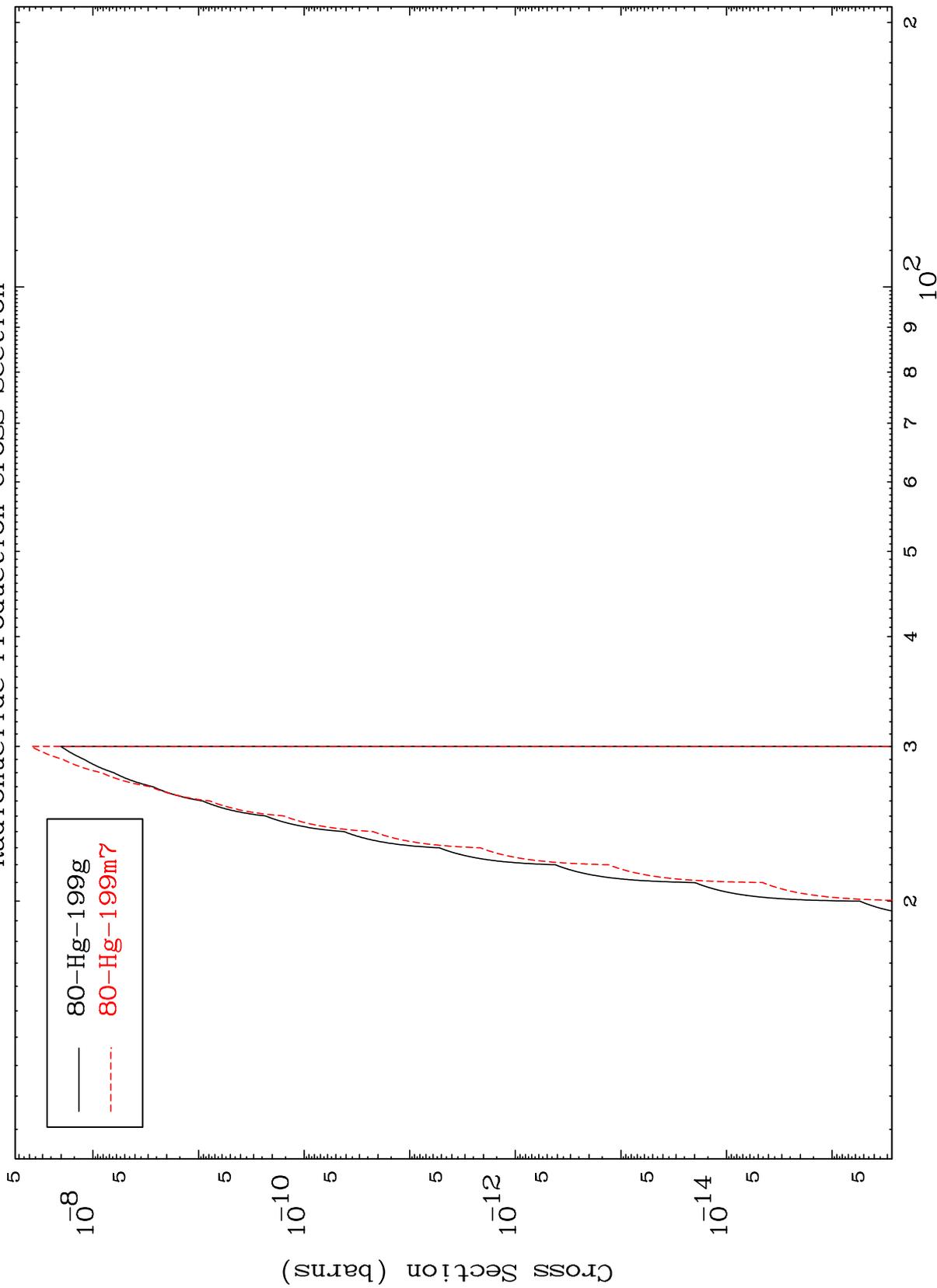


MAT 8219

(n,p) t

82-Pb-202

Radionuclide Production Cross Section



144

Incident Energy (MeV)

82-Pb-202