

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

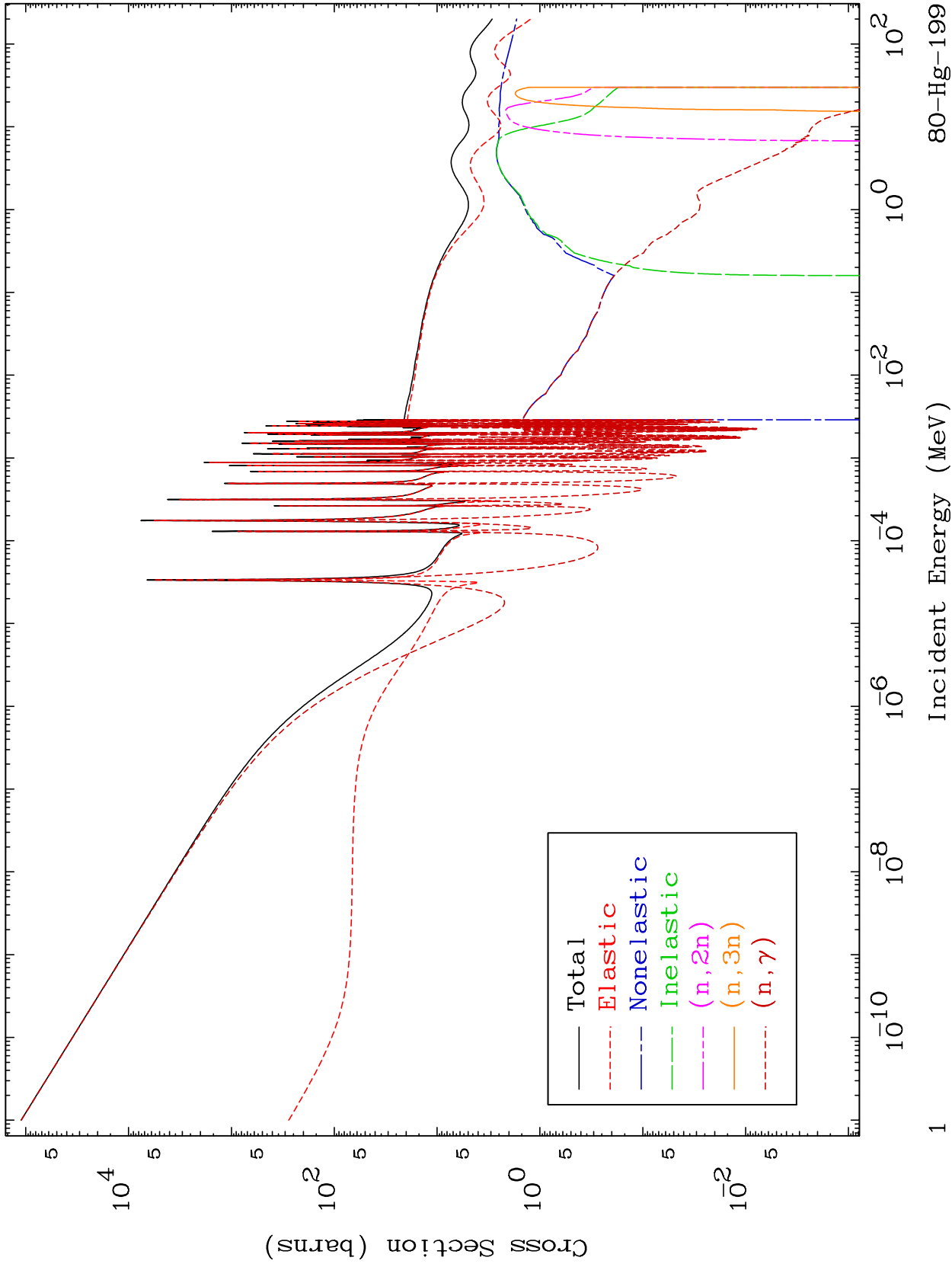
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 8034

Neutron Major  
293 Kelvin Cross Sections

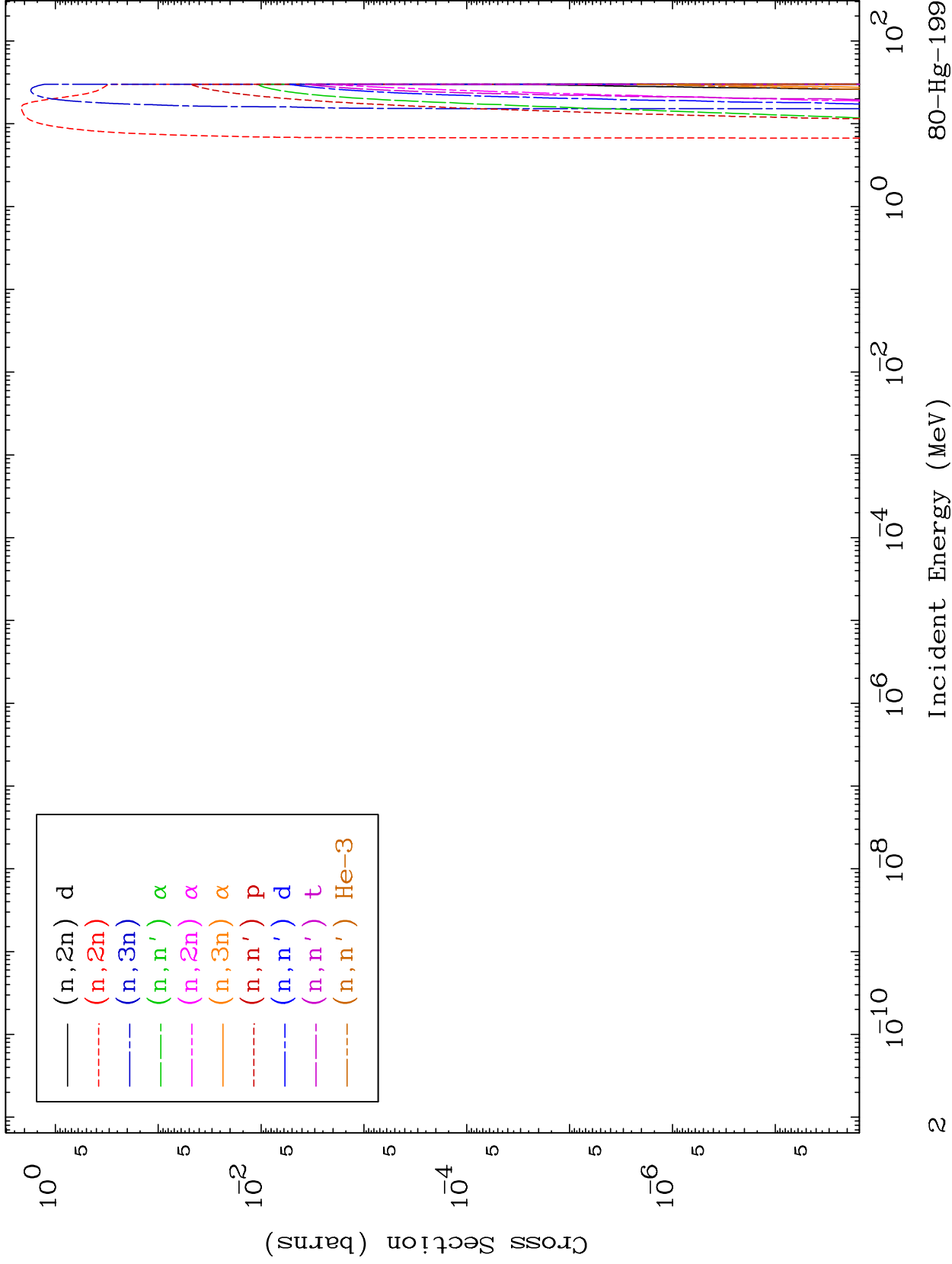
80-Hg-199



MAT 8034

Neutron Absorption  
293 Kelvin Cross Sections

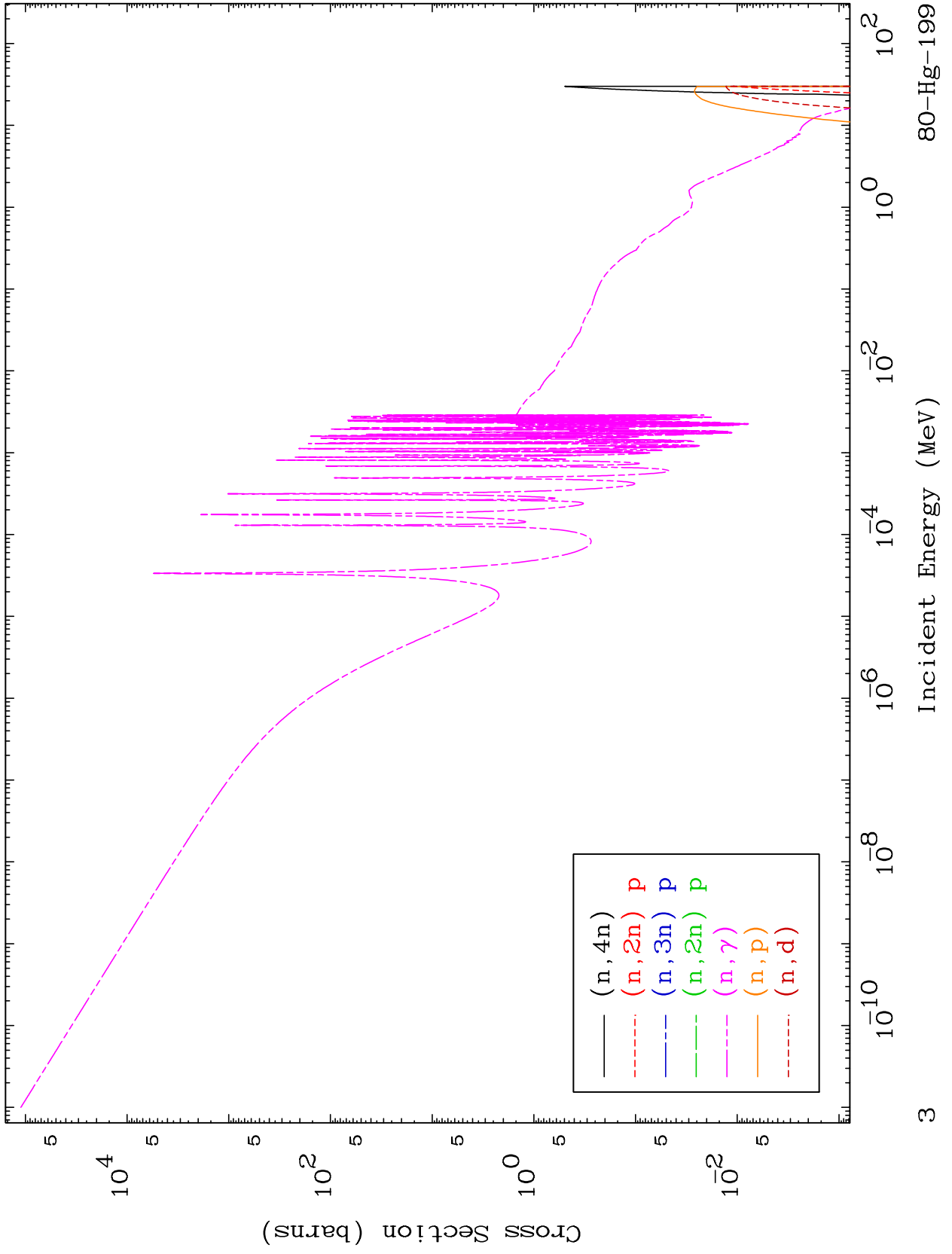
80-Hg-199



MAT 8034

Neutron Absorption  
293 Kelvin Cross Sections

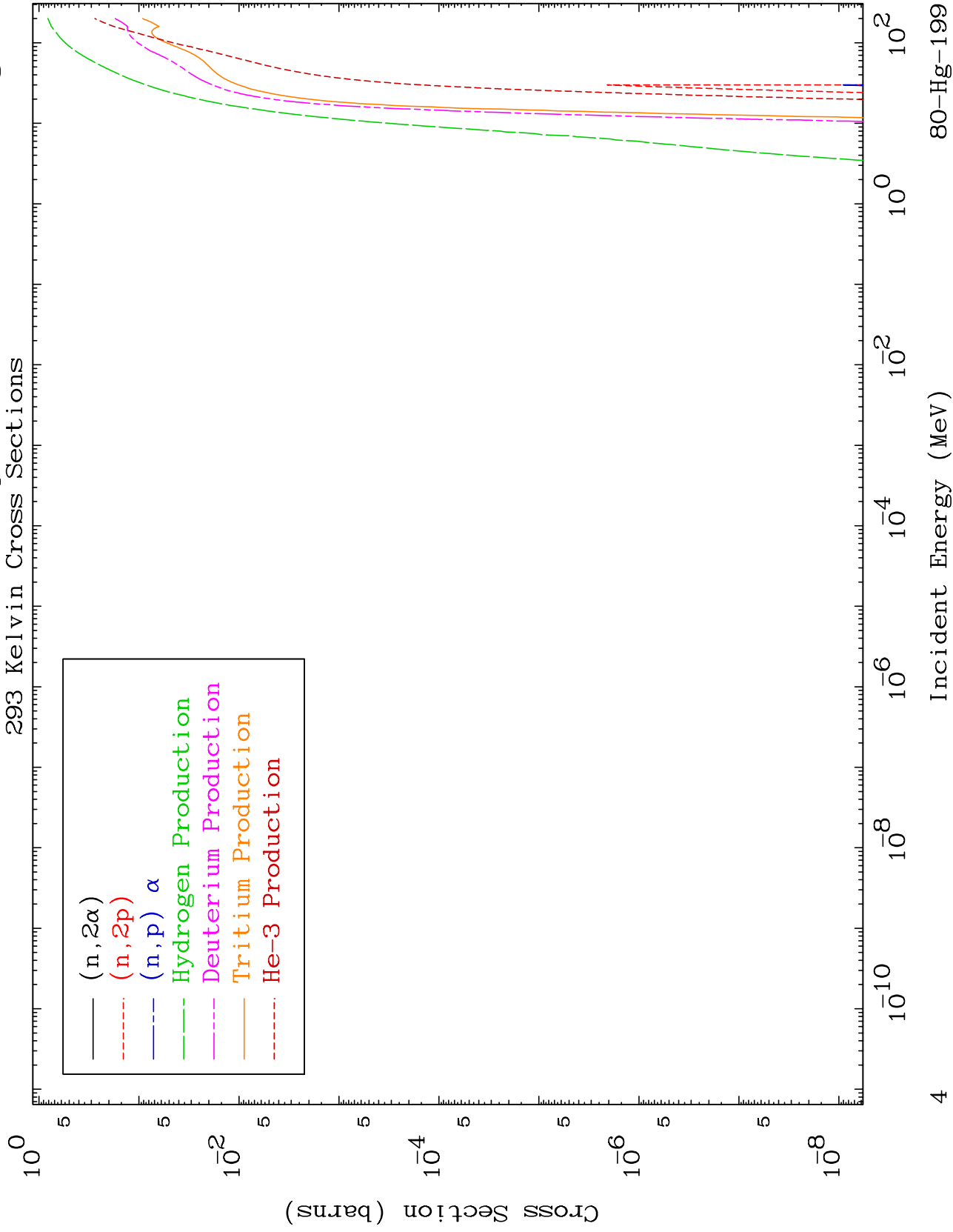
80-Hg-199



MAT 8034

Neutron Absorption  
293 Kelvin Cross Sections

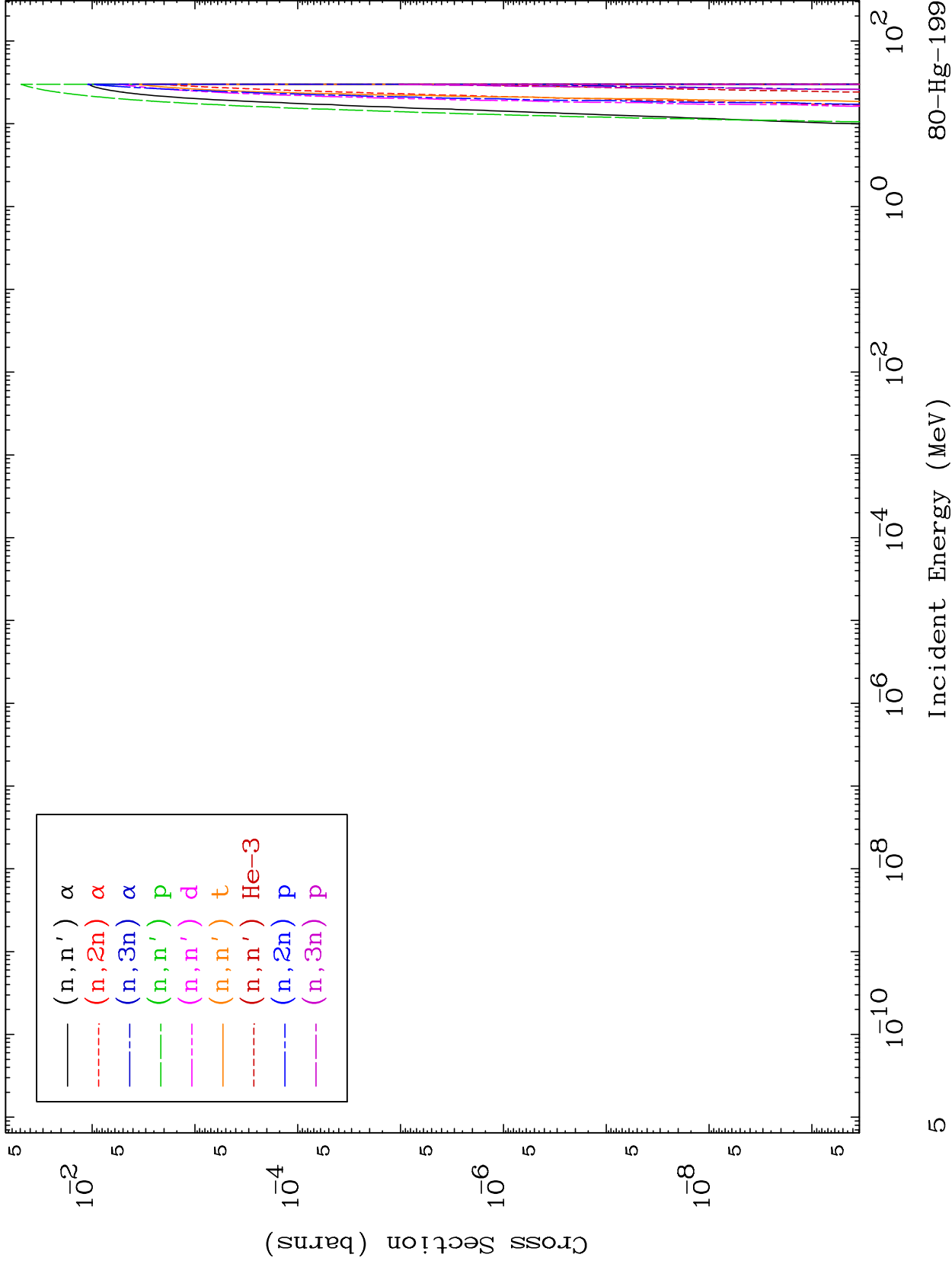
80-Hg-199



MAT 8034

Charged Particle  
293 Kelvin Cross Sections

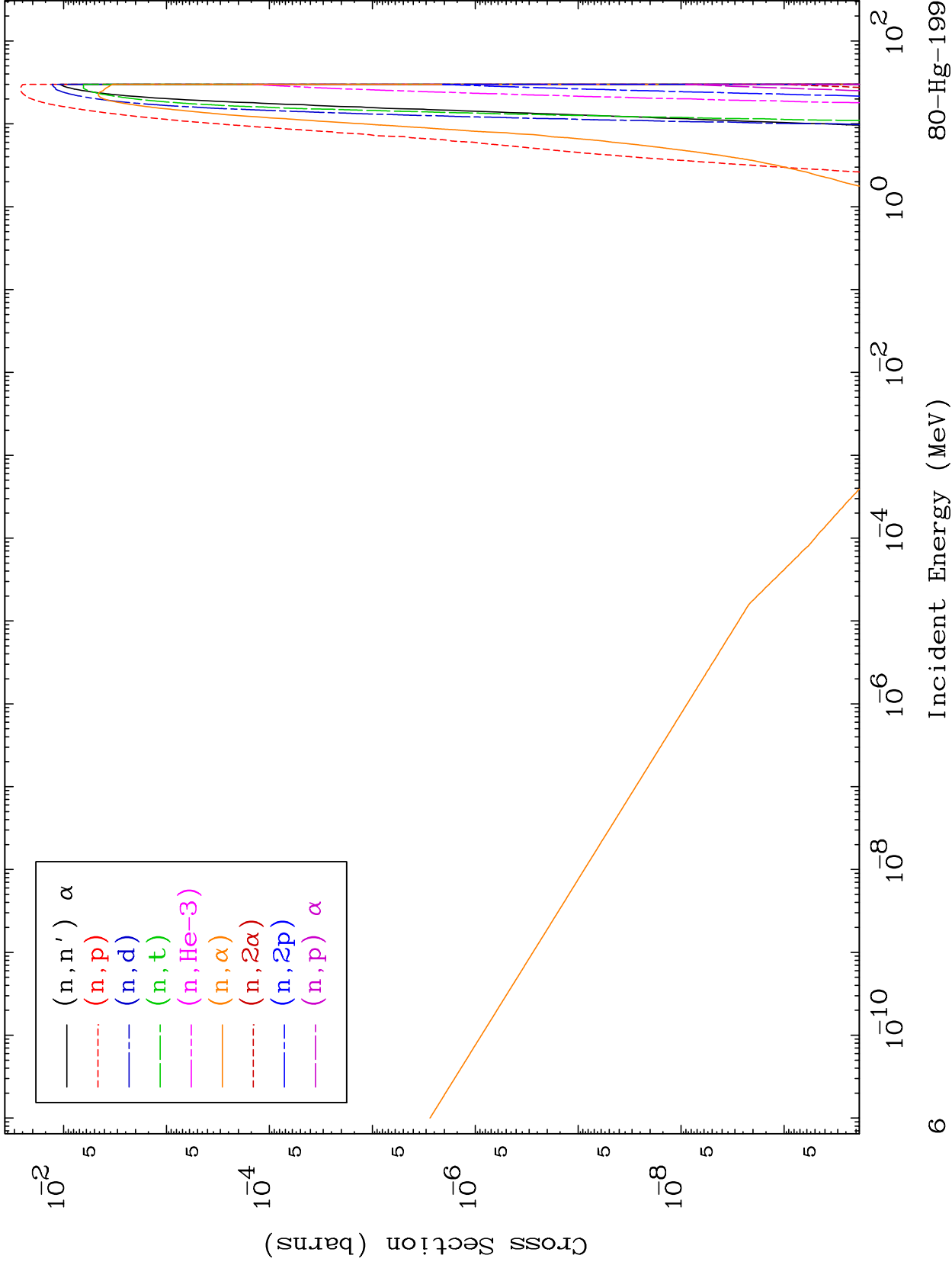
80-Hg-199



MAT 8034

Charged Particle  
293 Kelvin Cross Sections

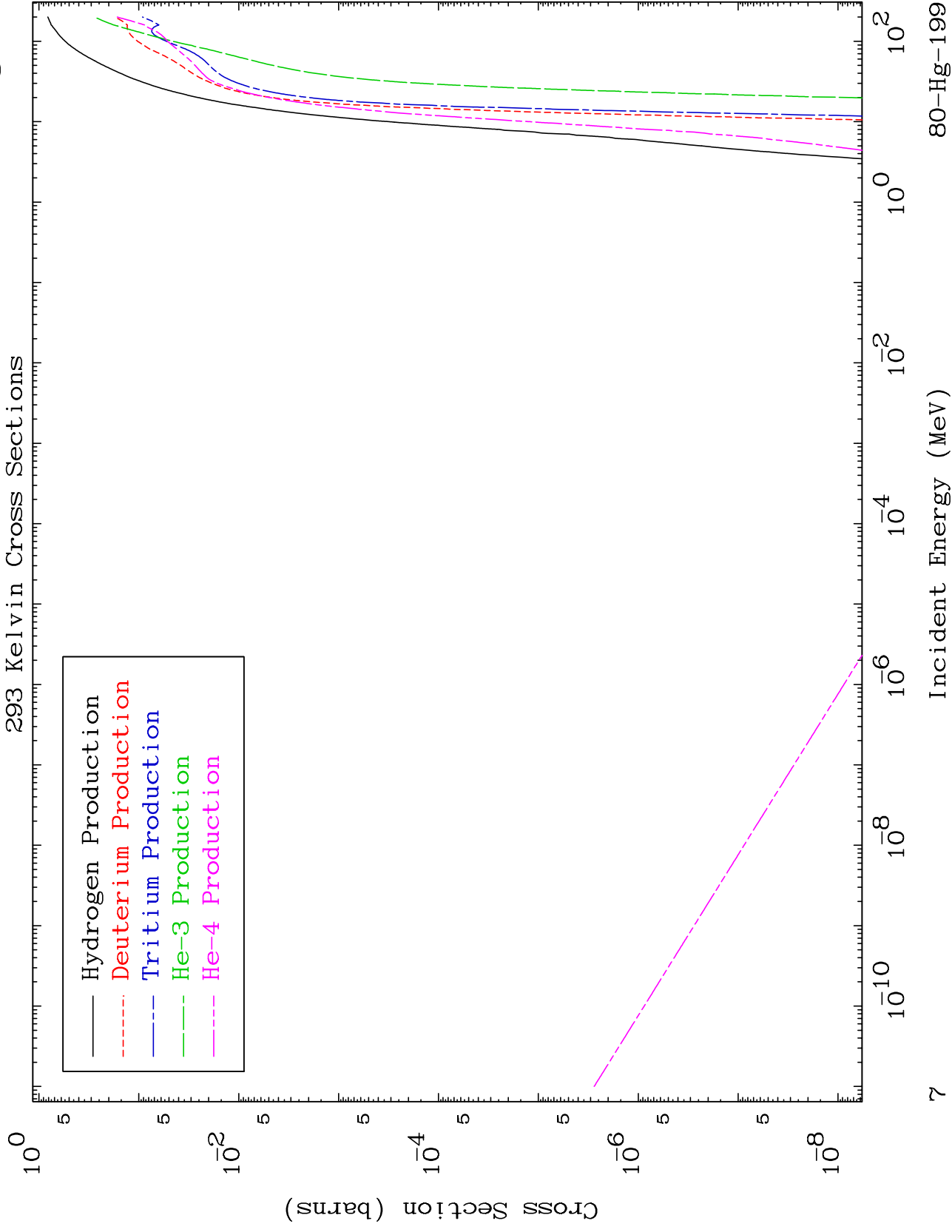
80-Hg-199



MAT 8034

Particle Production  
293 Kelvin Cross Sections

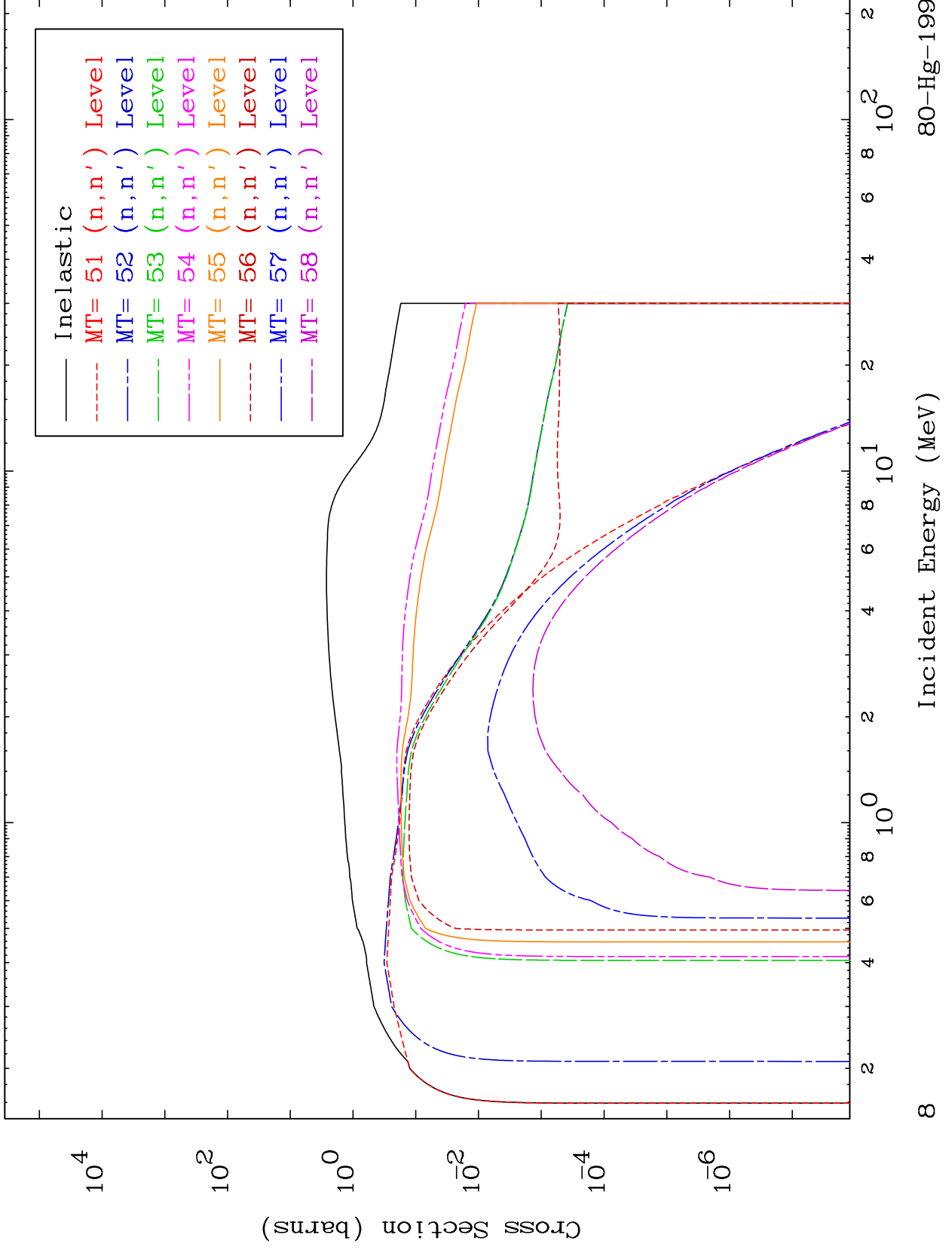
80-Hg-199



MAT 8034

(n,n') Levels  
293 Kelvin Cross Sections

80-Hg-199

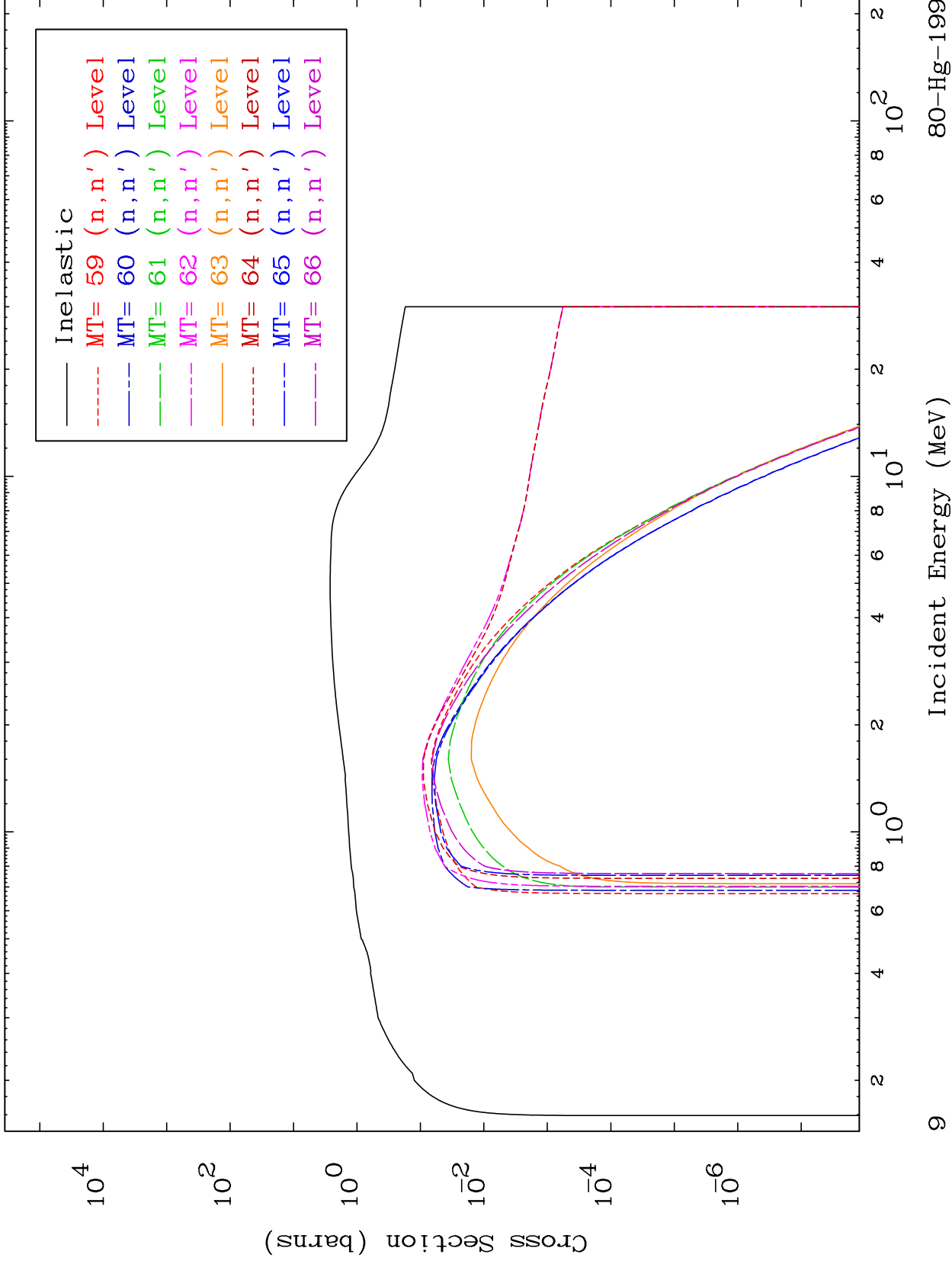


MAT 8034

(n,n') Levels

80-Hg-199

293 Kelvin Cross Sections

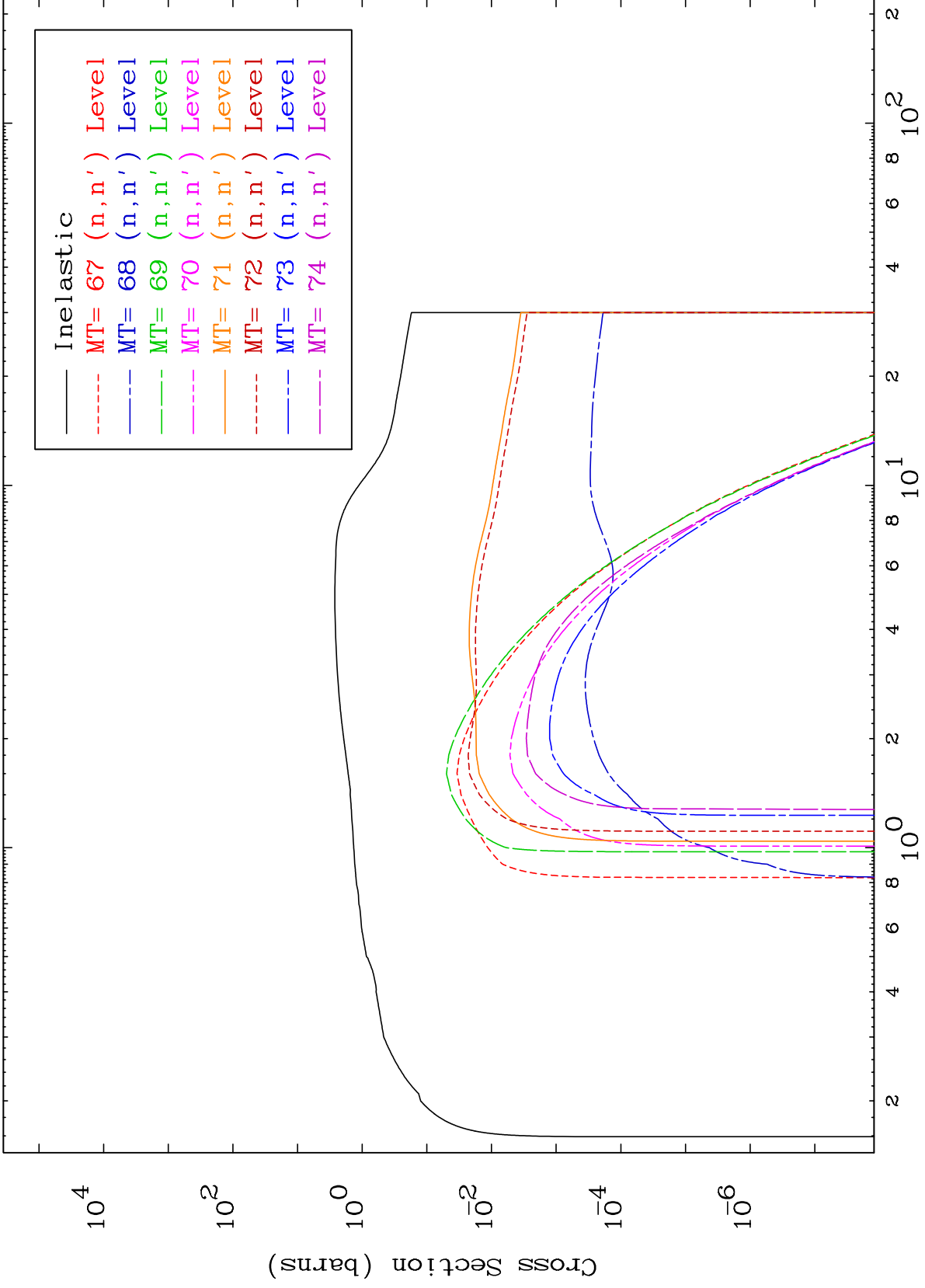


MAT 8034

(n,n') Levels

80-Hg-199

293 Kelvin Cross Sections



10

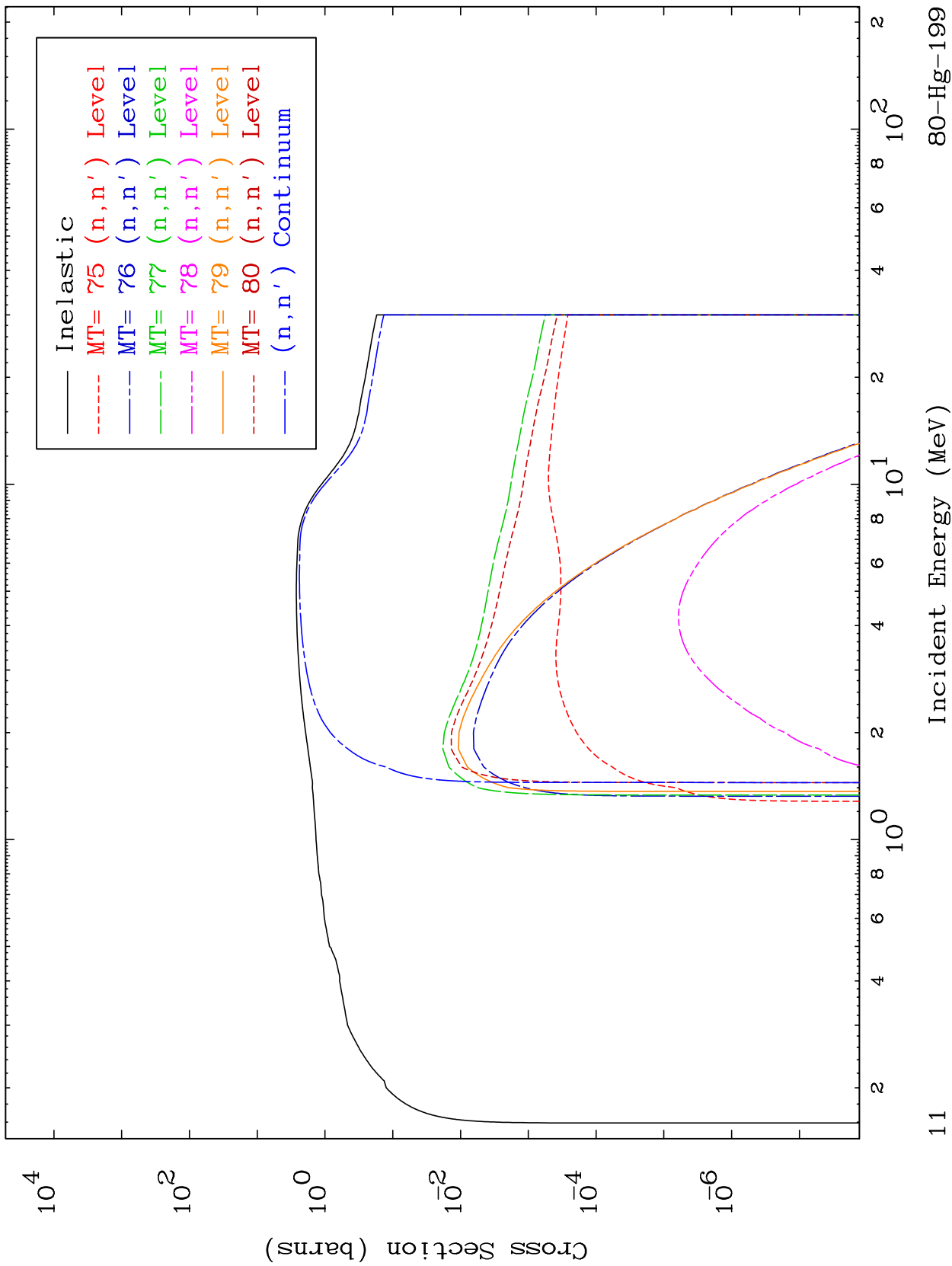
Incident Energy (MeV)

80-Hg-199

MAT 8034

(n,n') Levels  
293 Kelvin Cross Sections

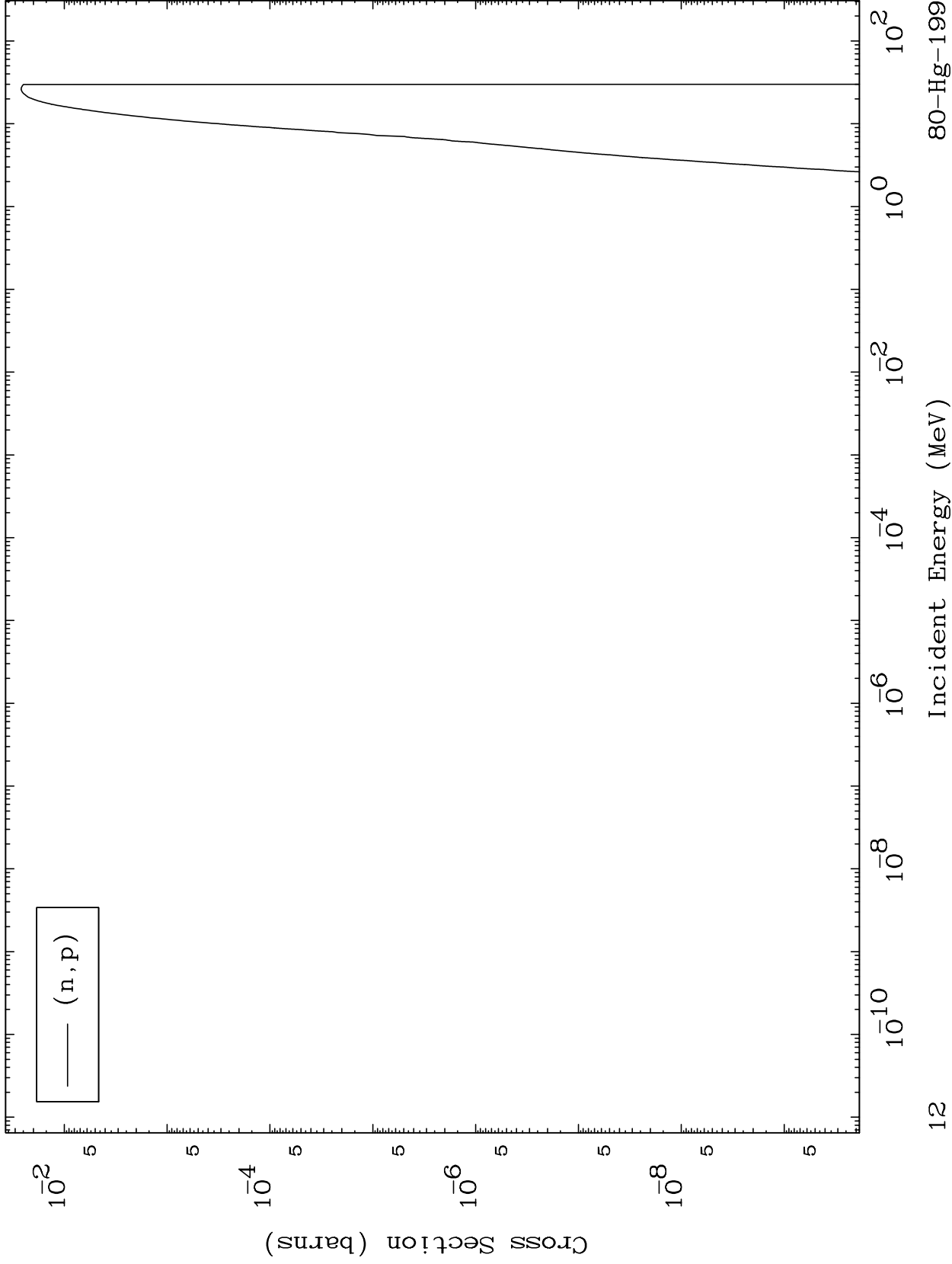
80-Hg-199



MAT 8034

(n,p) Levels  
293 Kelvin Cross Sections

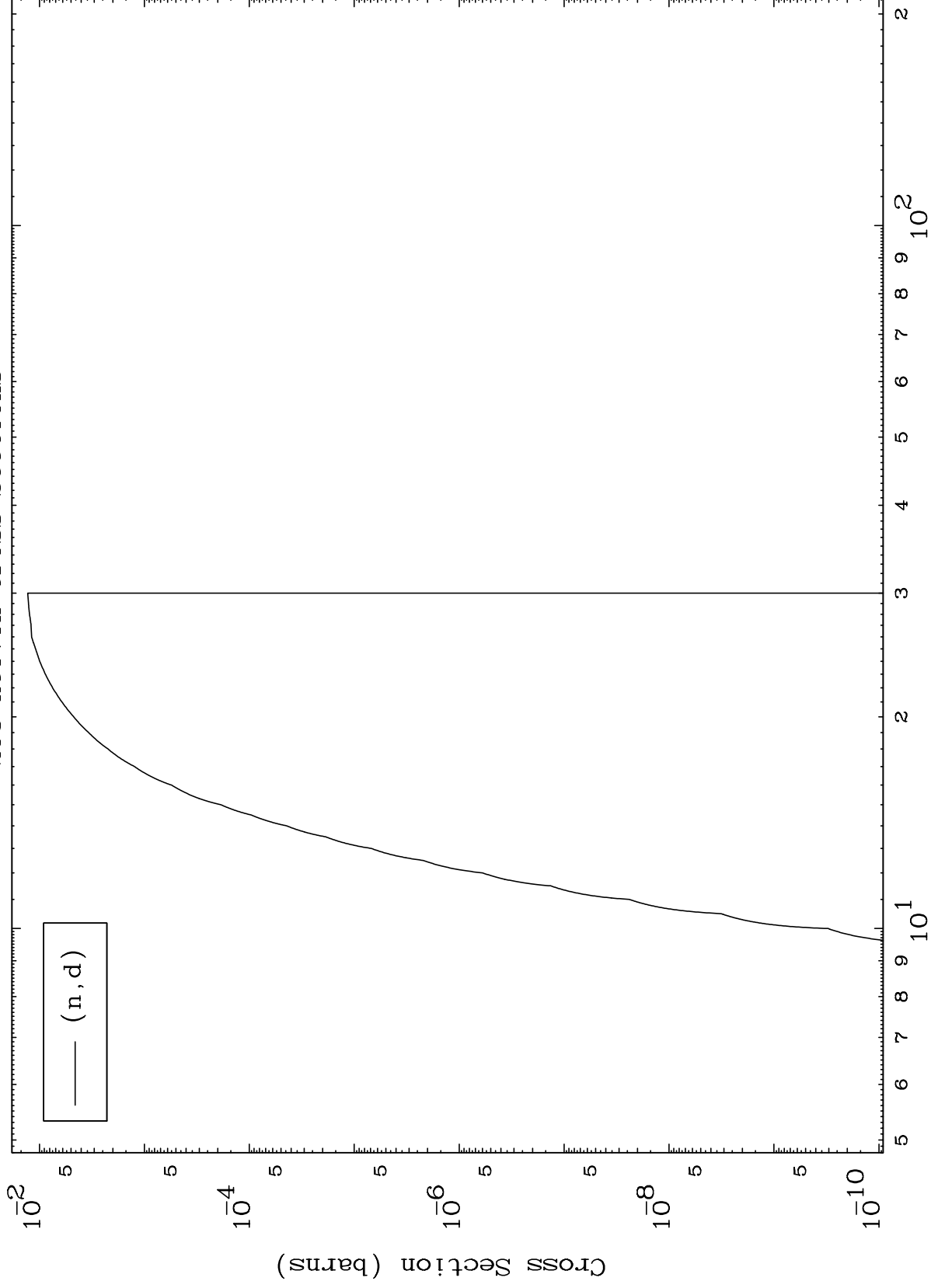
80-Hg-199



MAT 8034

(n,d) Levels  
293 Kelvin Cross Sections

80-Hg-199



13

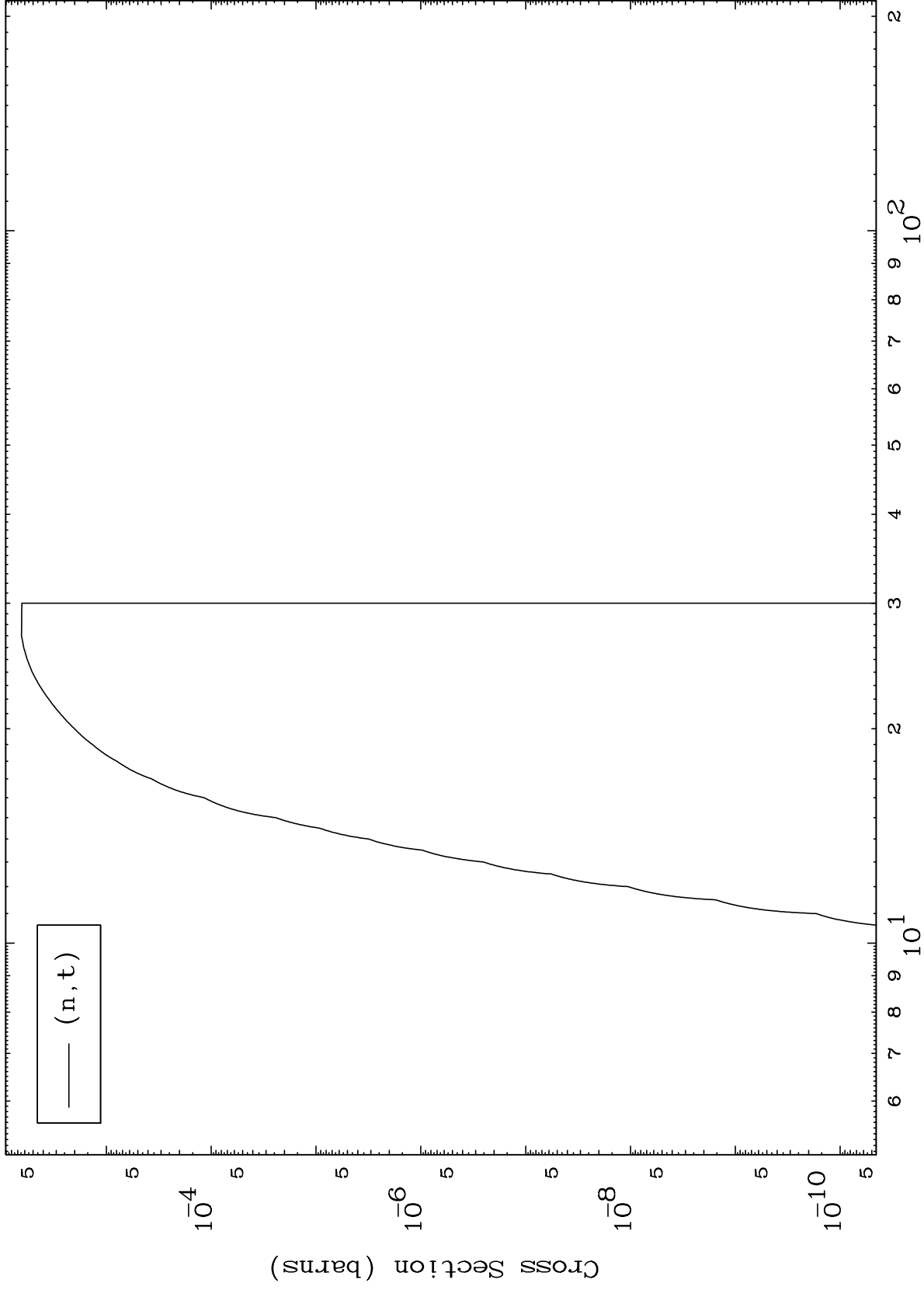
Incident Energy (MeV)

80-Hg-199

MAT 8034

(n,t) Levels  
293 Kelvin Cross Sections

80-Hg-199



14

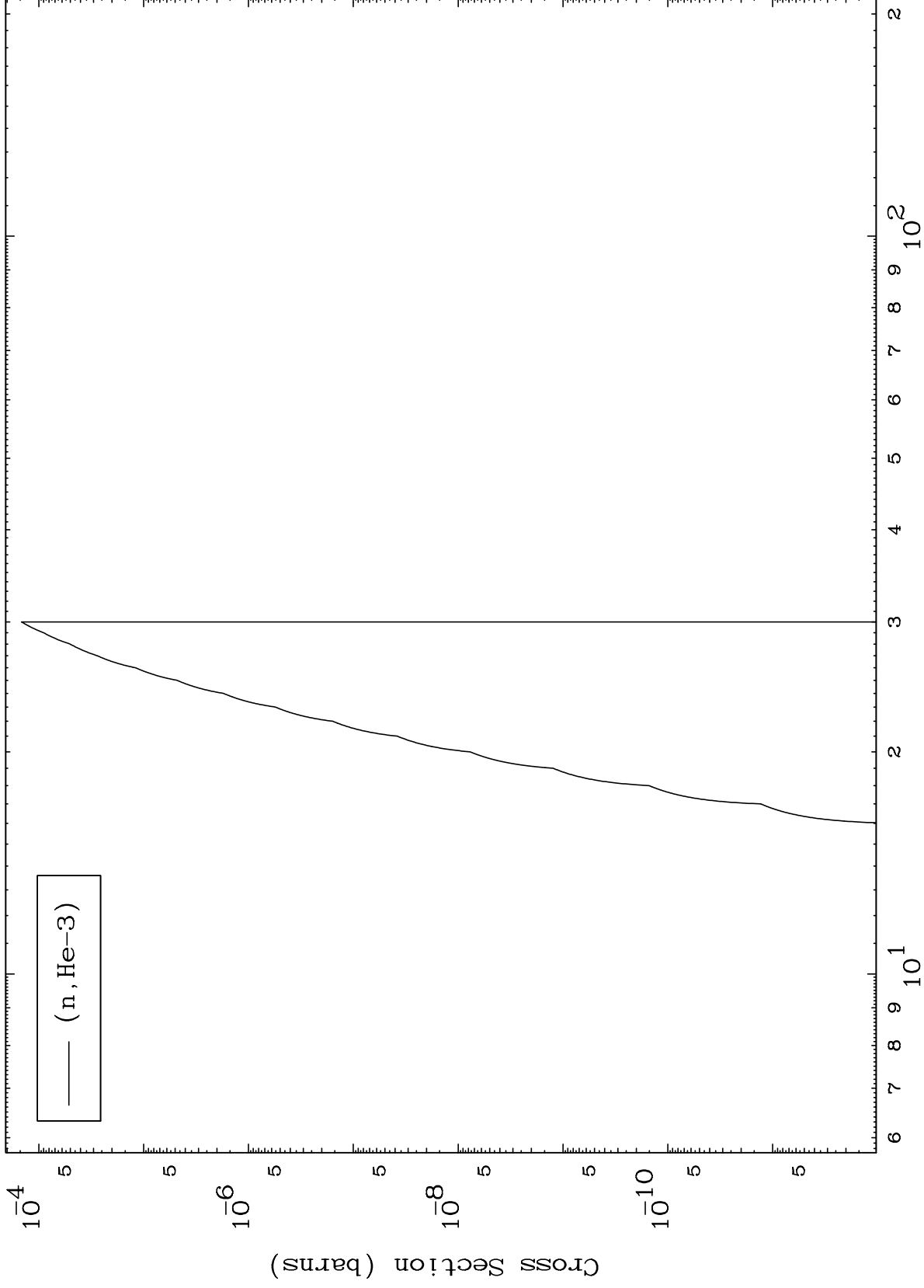
Incident Energy (MeV)

80-Hg-199

MAT 8034

(n,He3) Levels  
293 Kelvin Cross Sections

80-Hg-199



15

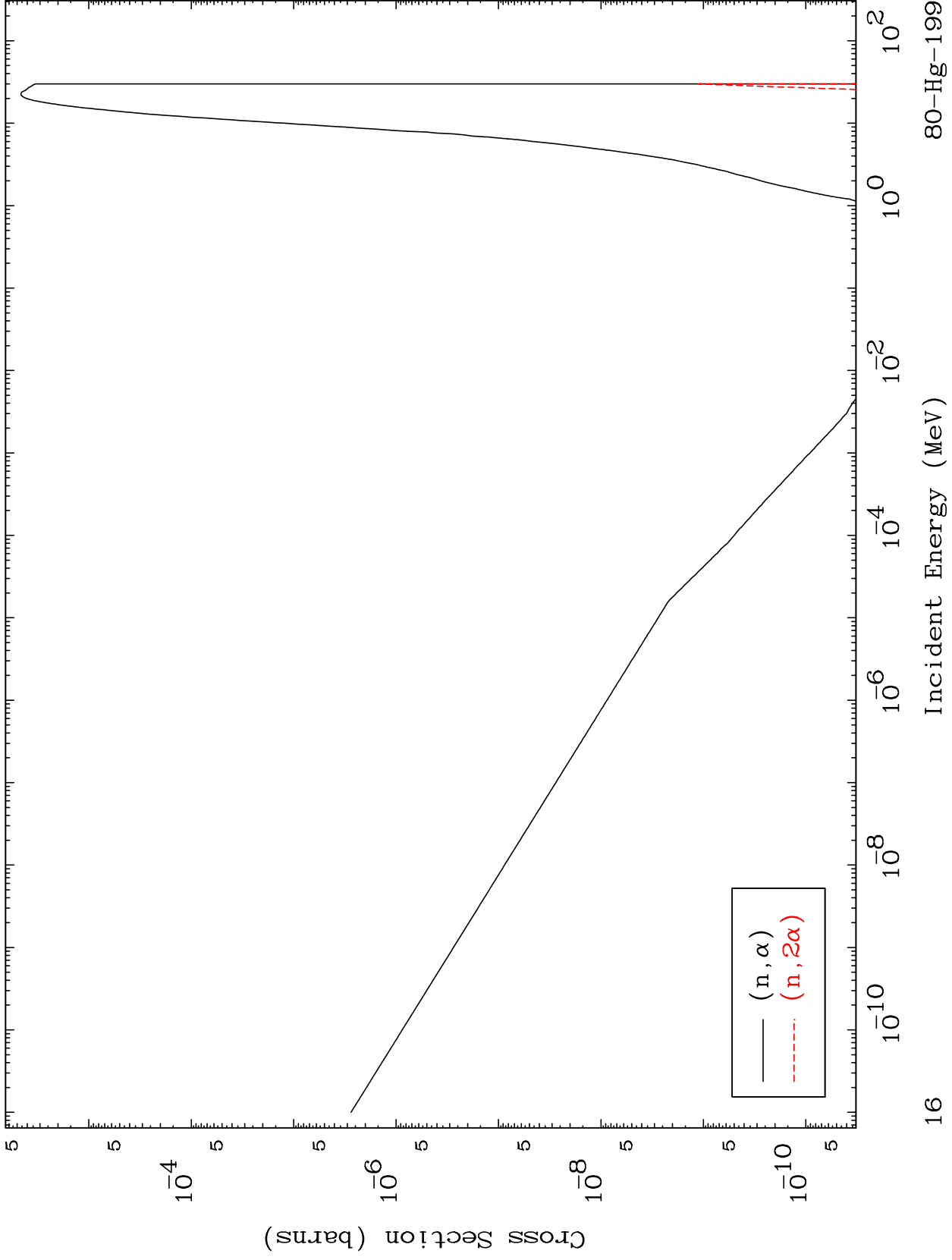
Incident Energy (MeV)

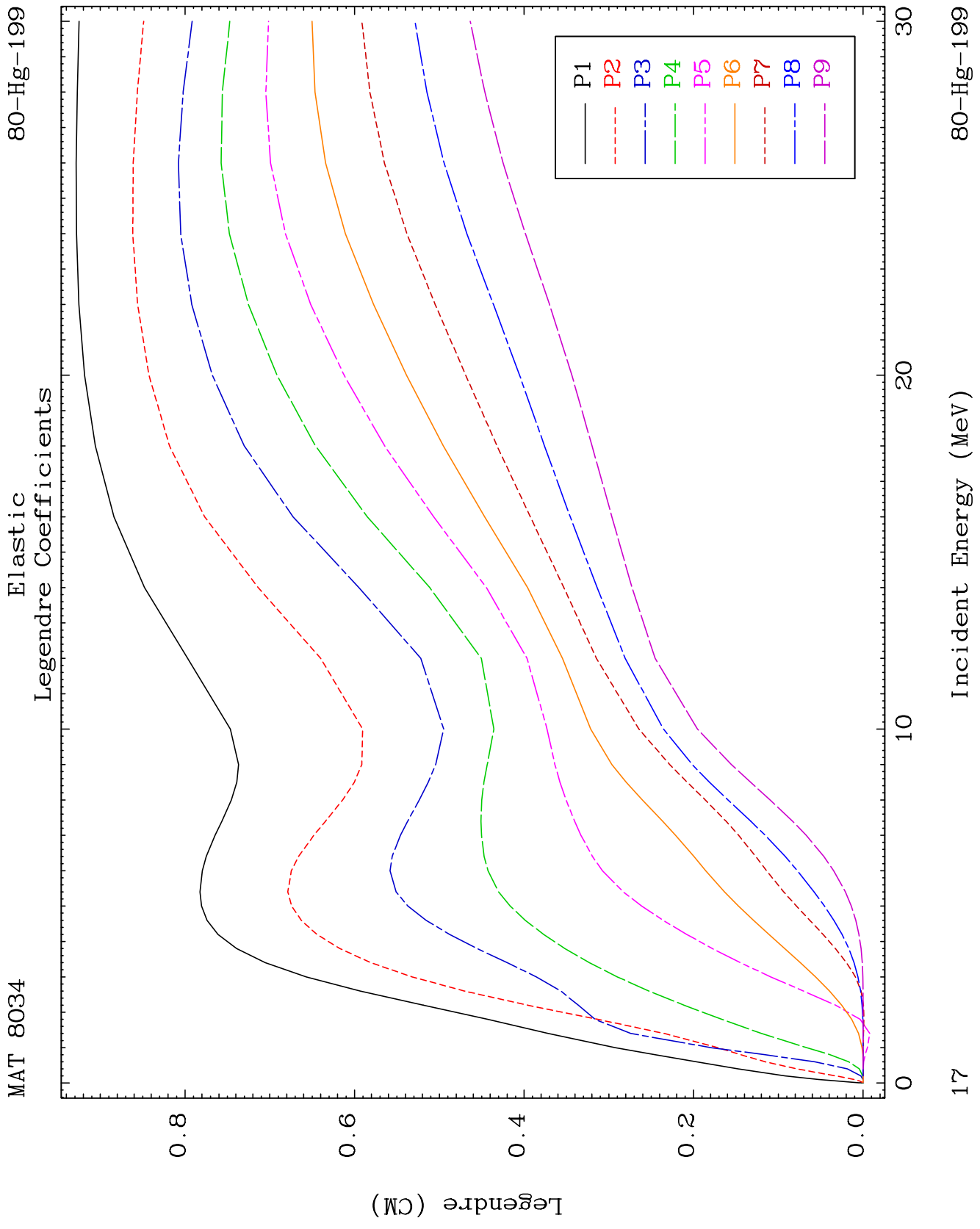
80-Hg-199

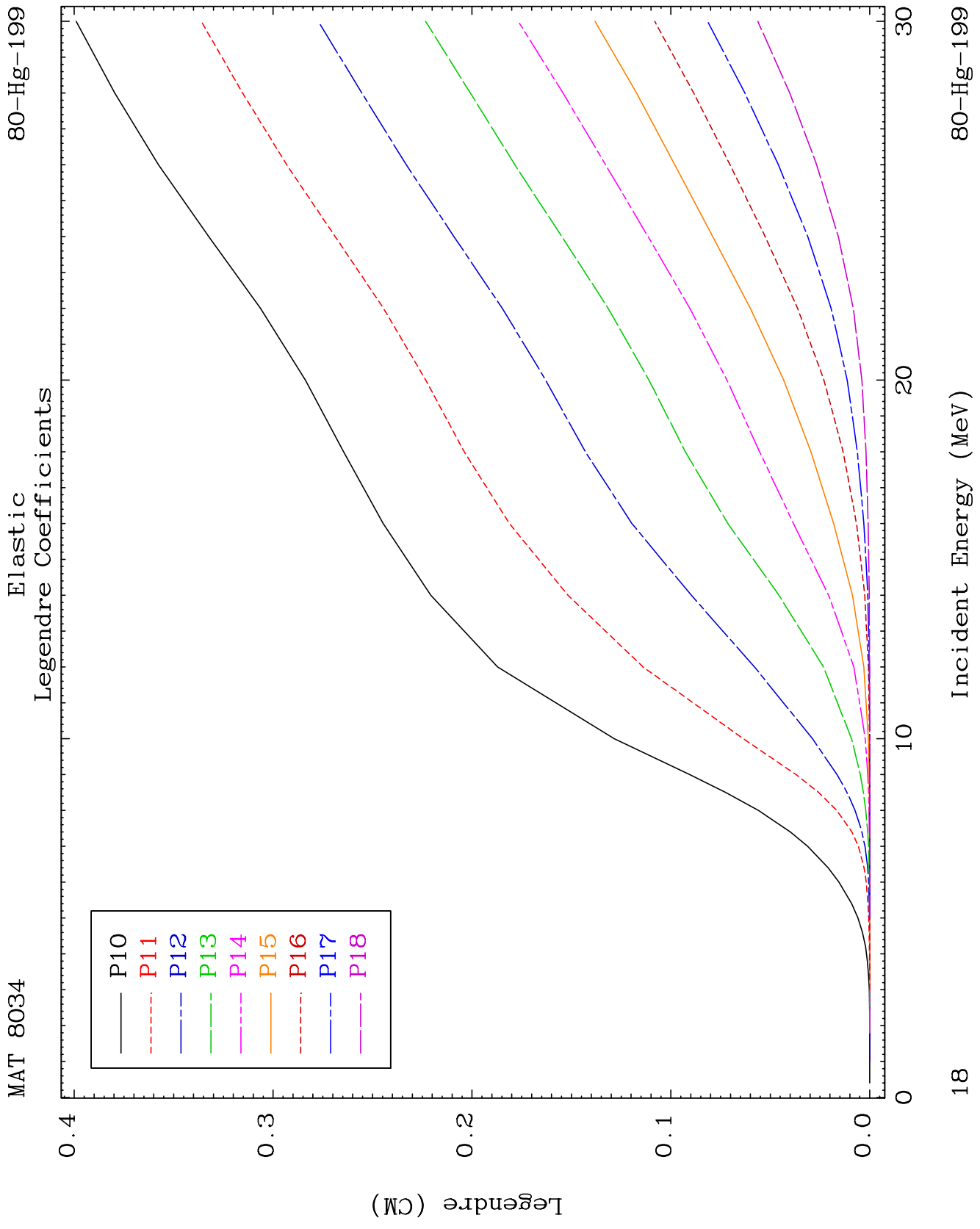
MAT 8034

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

80-Hg-199



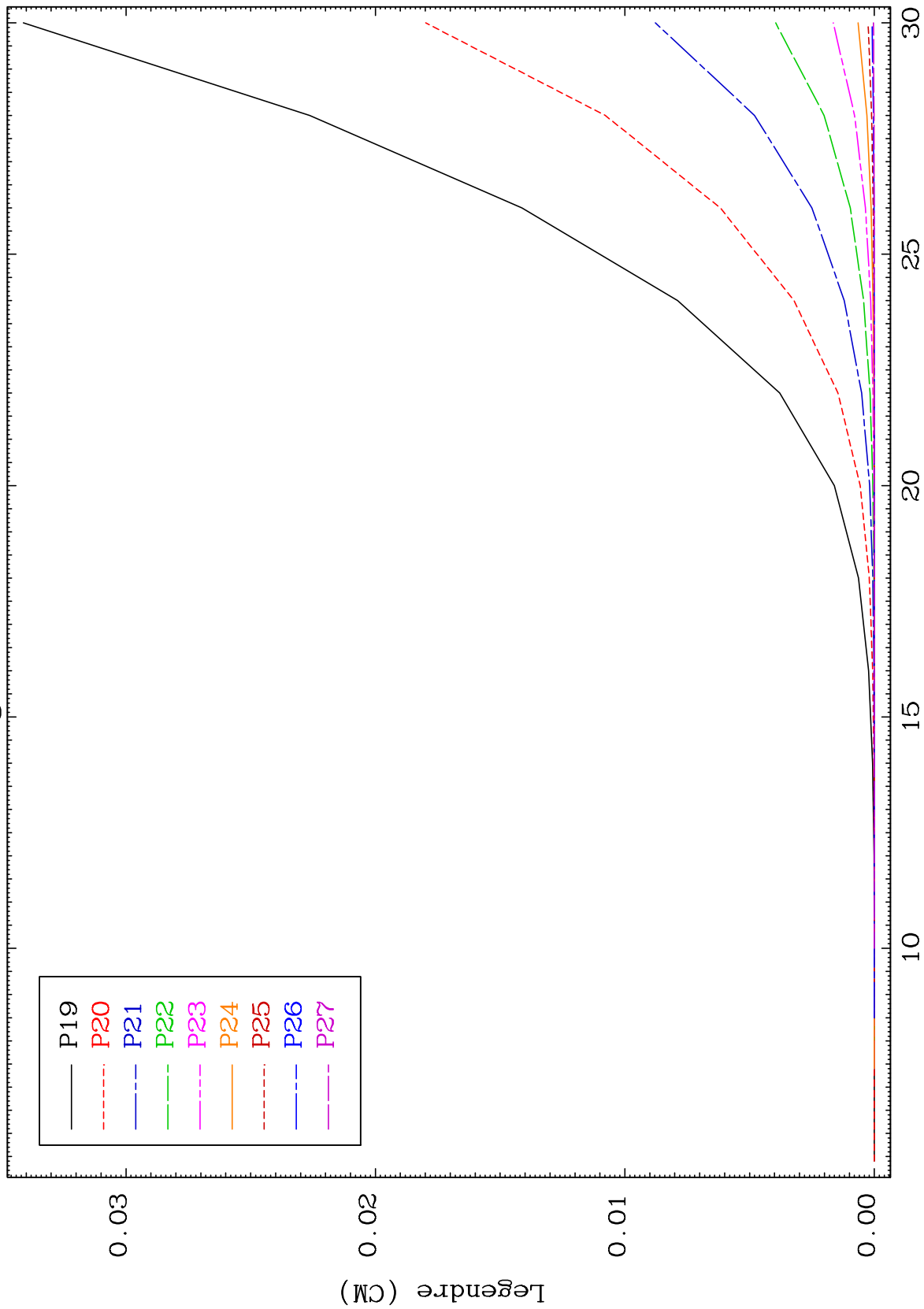




MAT 8034

### Elastic Legendre Coefficients

80-Hg-199



19

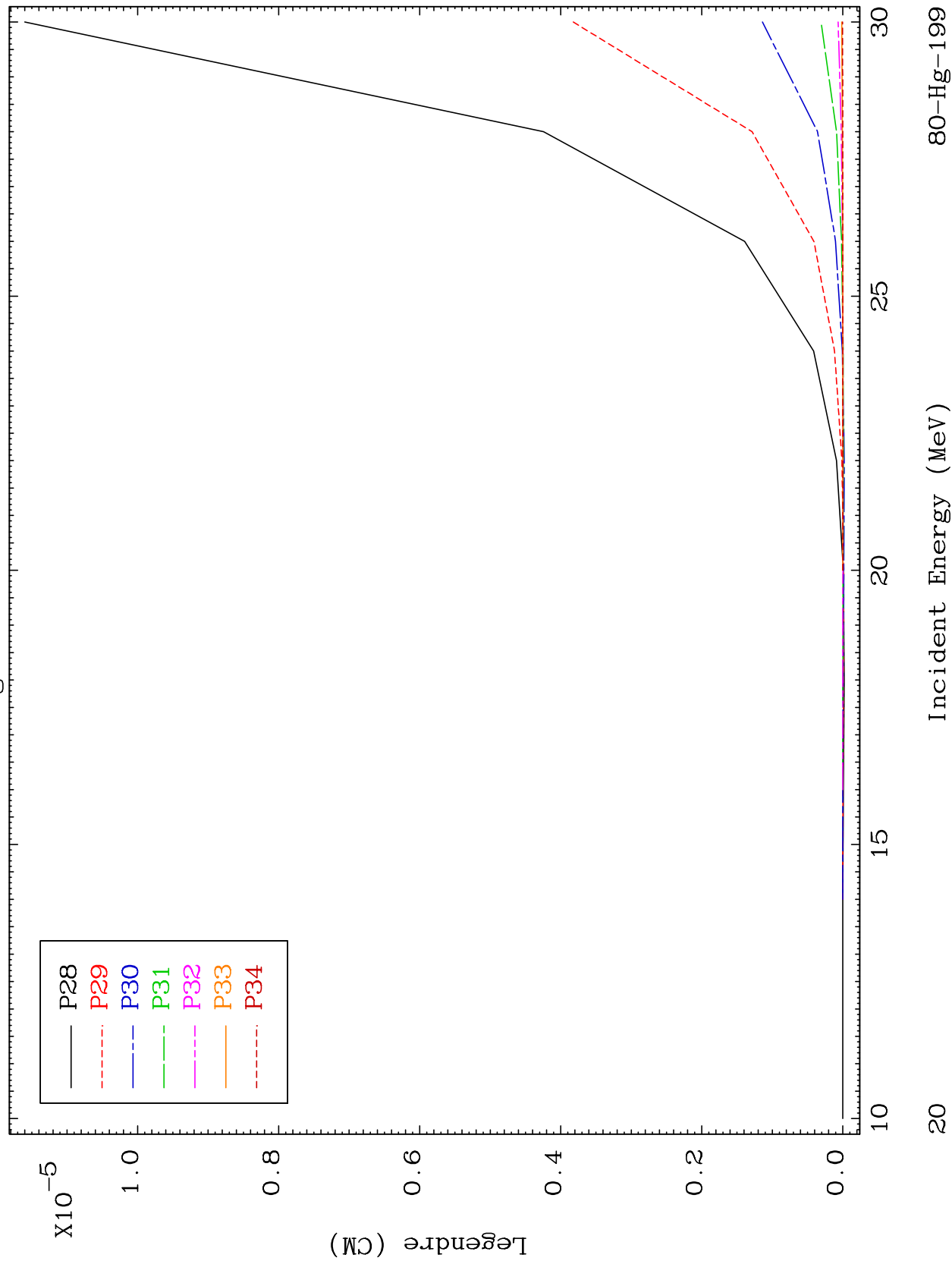
Incident Energy (MeV)

80-Hg-199

MAT 8034

Elastic Legendre Coefficients

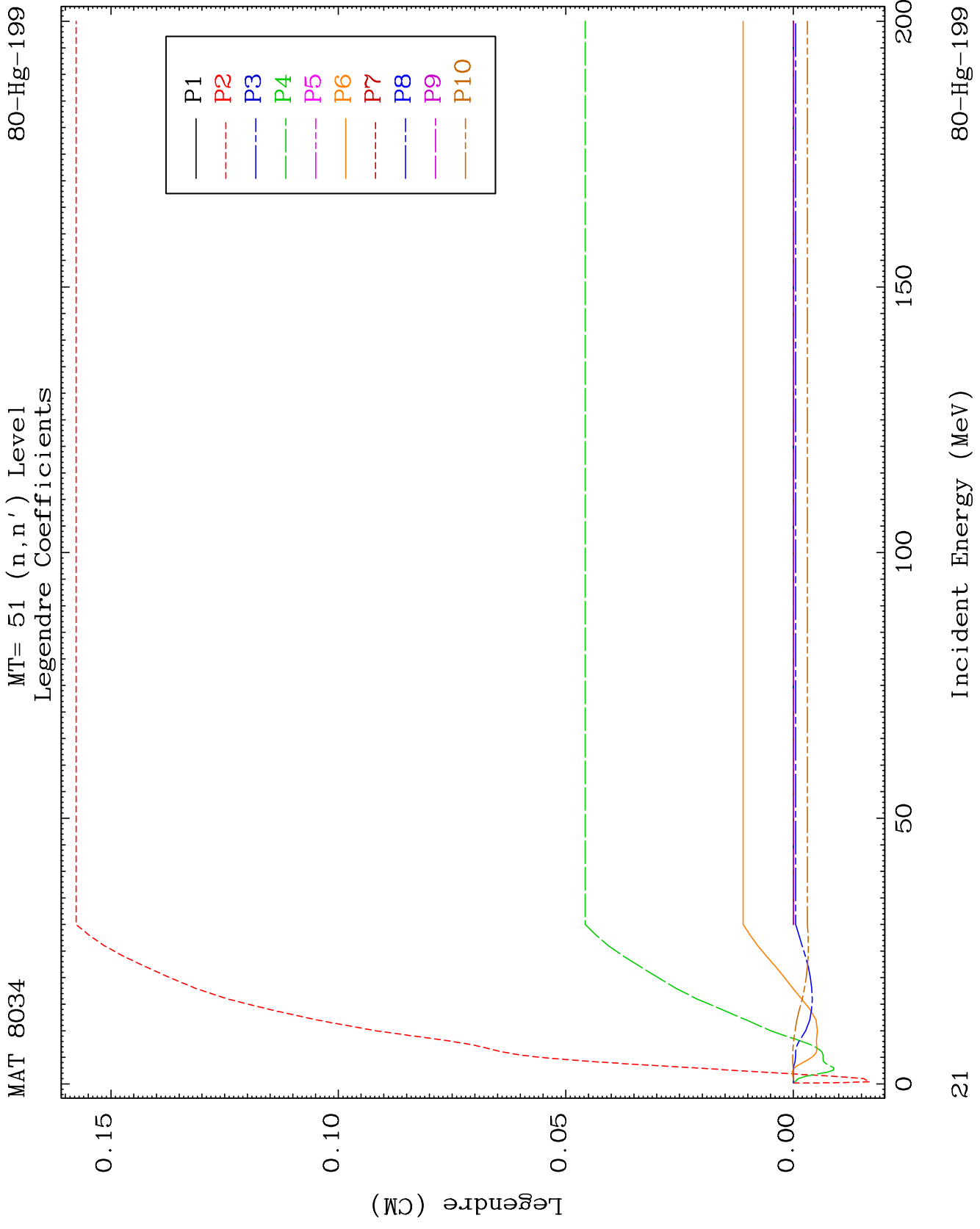
80-Hg-199



80-Hg-199

Incident Energy (MeV)

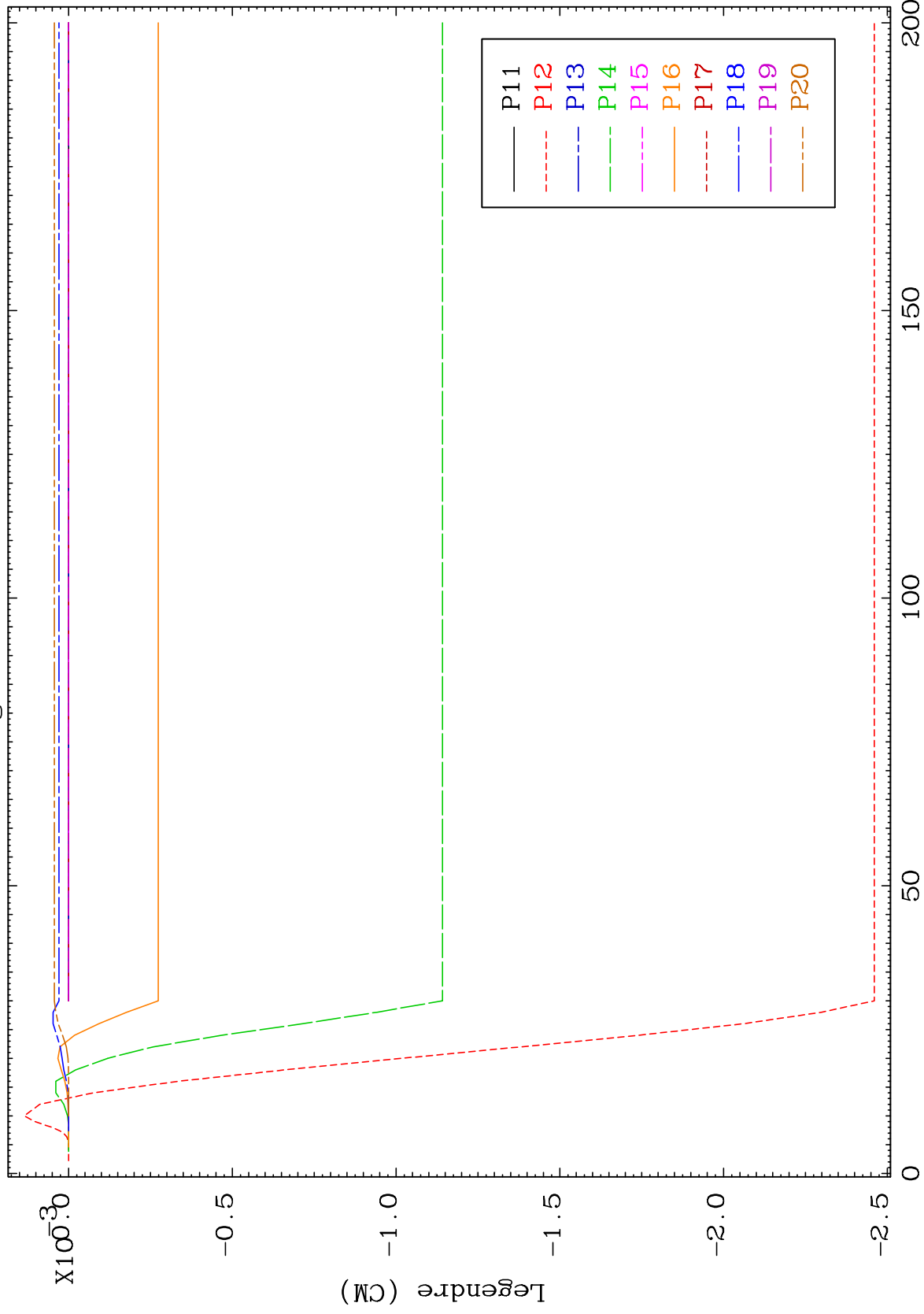
20



MAT 8034

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

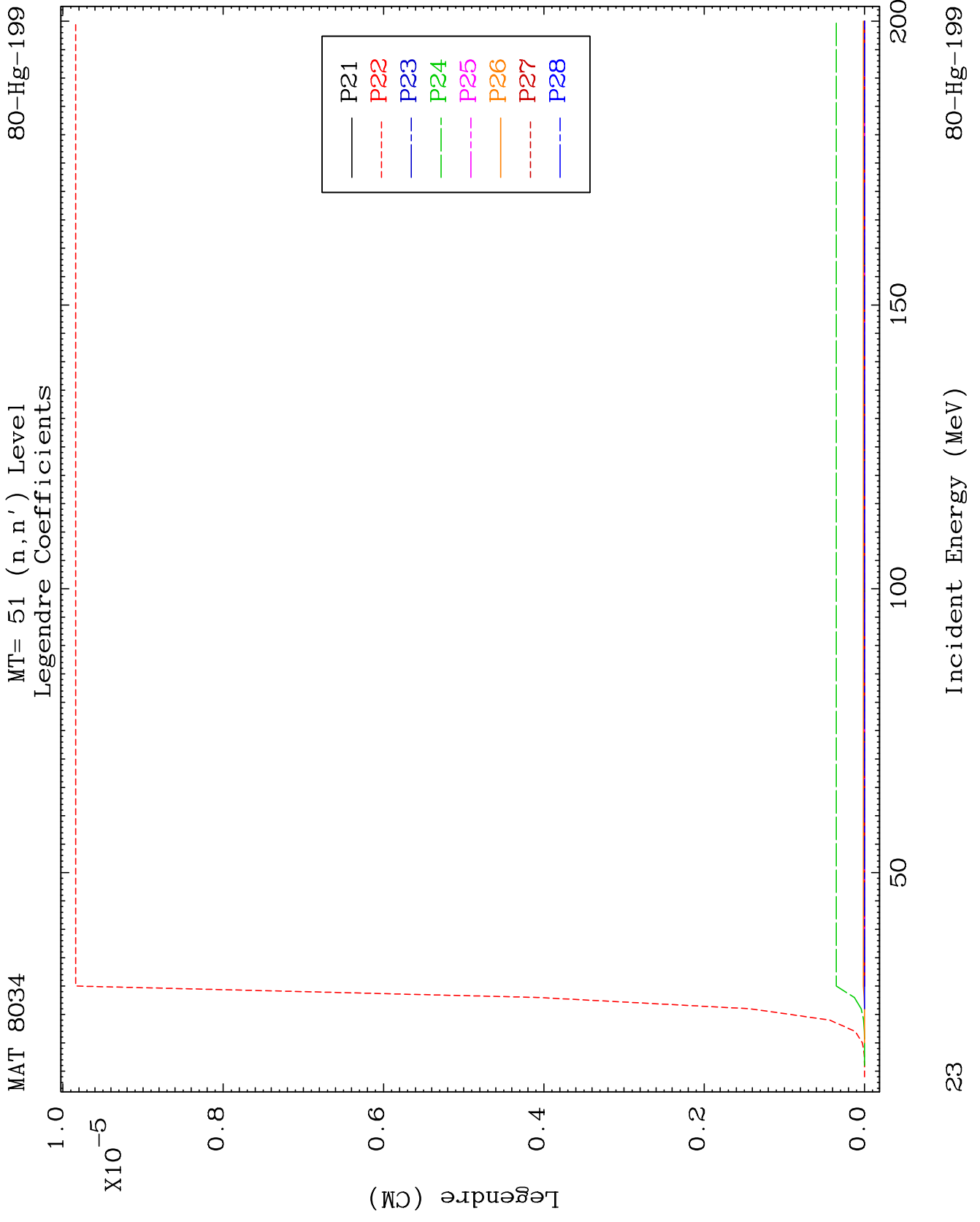
80-Hg-199



22

Incident Energy (MeV)

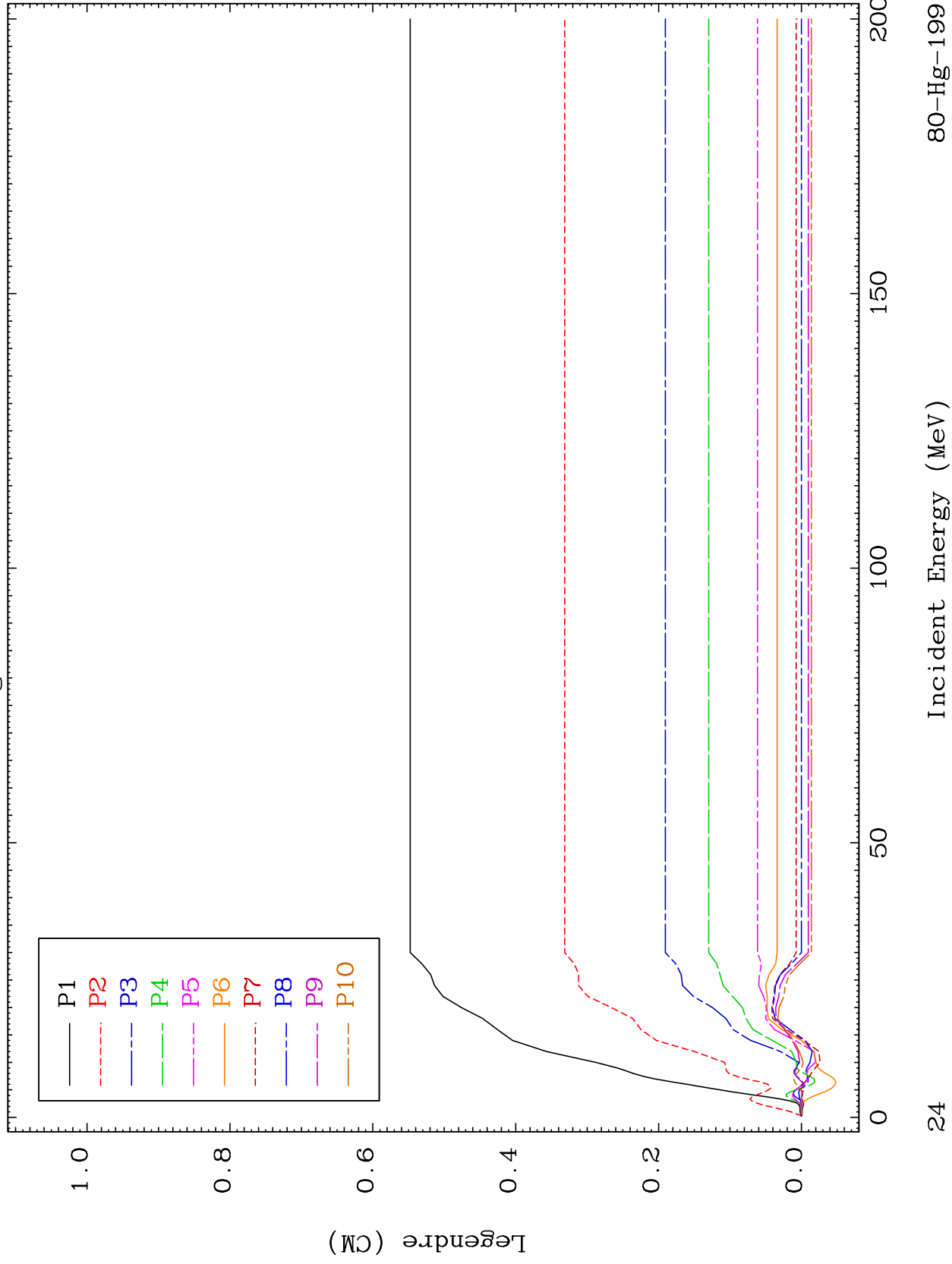
80-Hg-199



MAT 8034

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

80-Hg-199



24

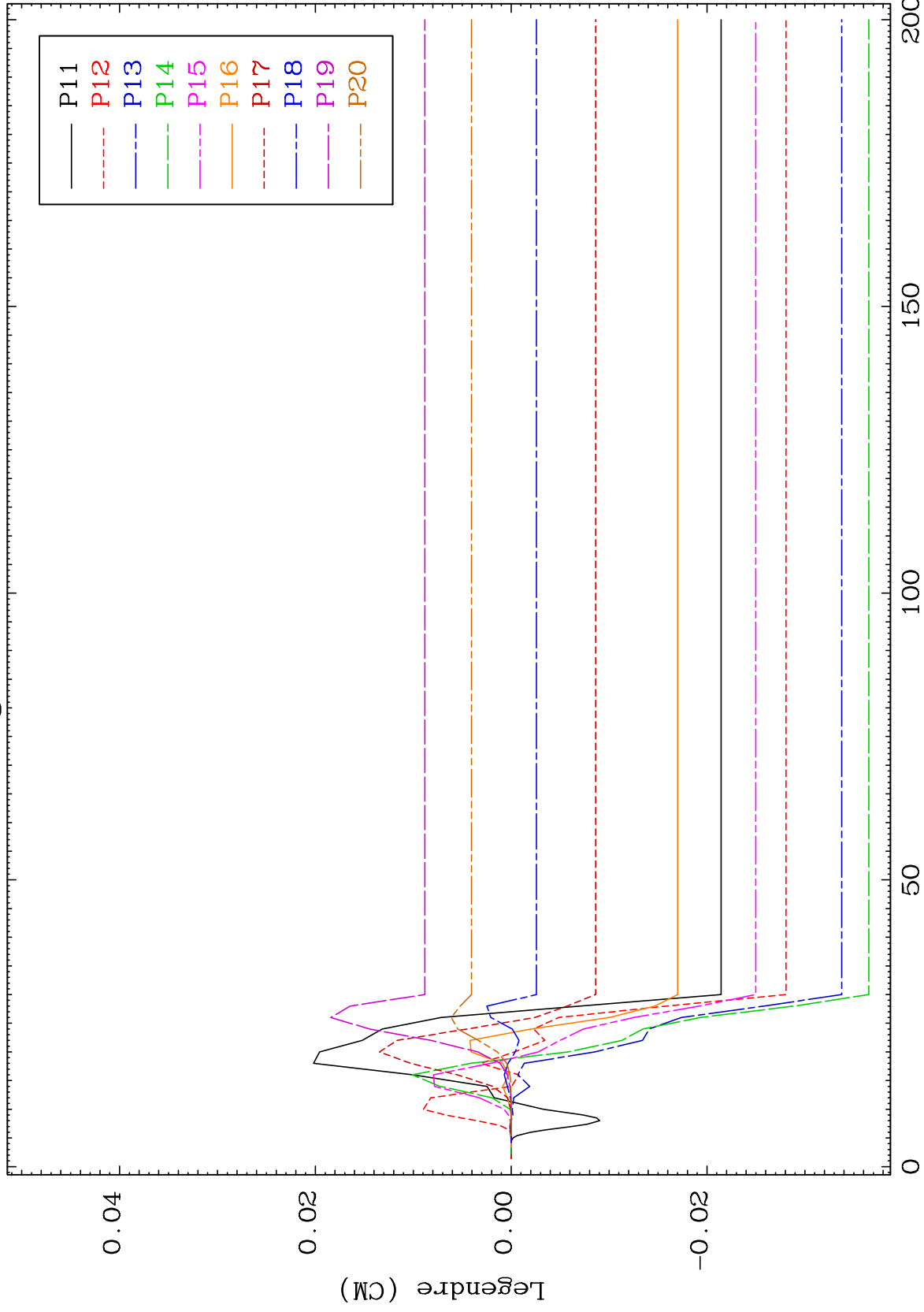
Incident Energy (MeV)

80-Hg-199

MAT 8034

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

80-Hg-199



25

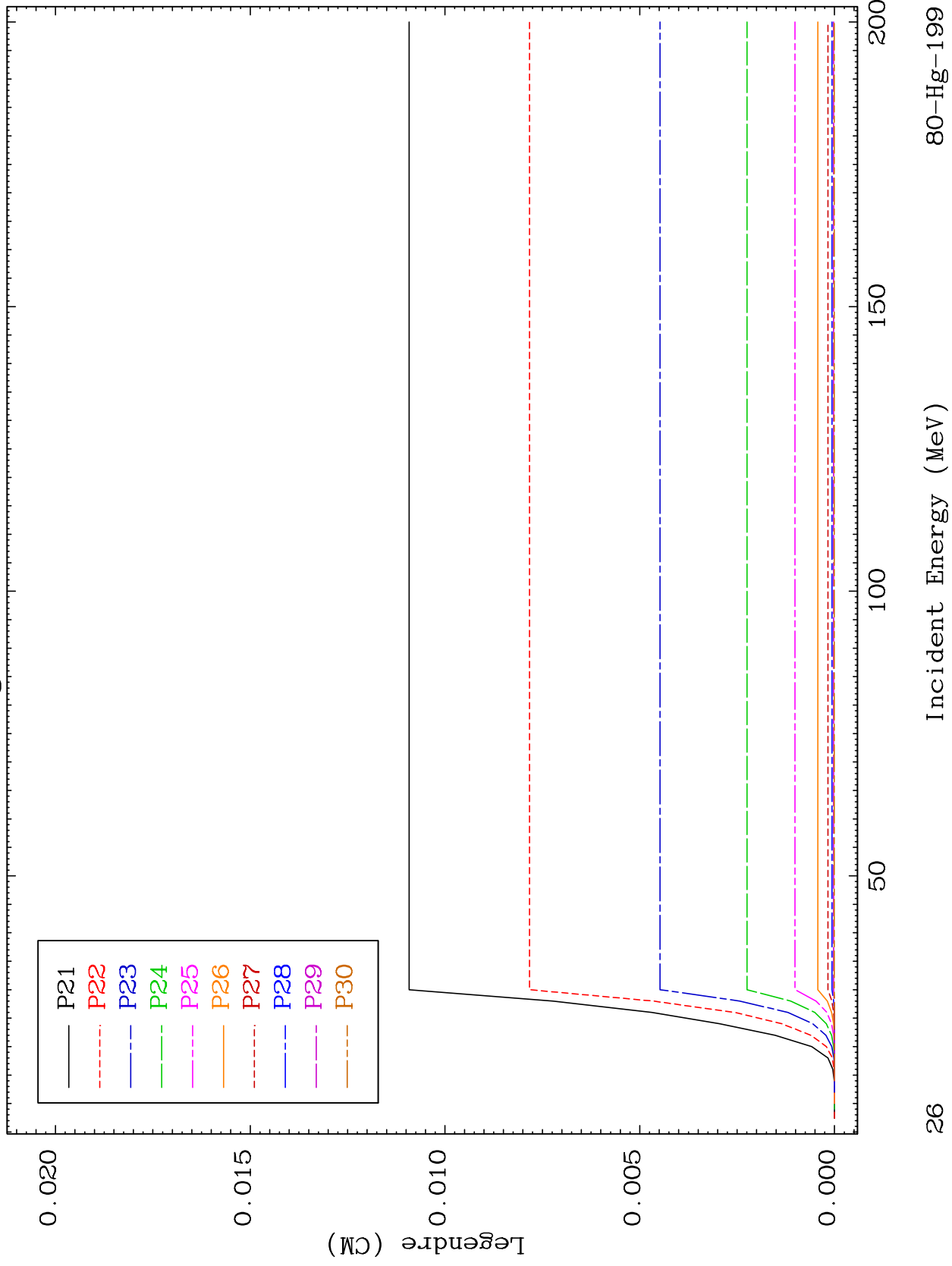
Incident Energy (MeV)

80-Hg-199

MAT 8034

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

80-Hg-199



26

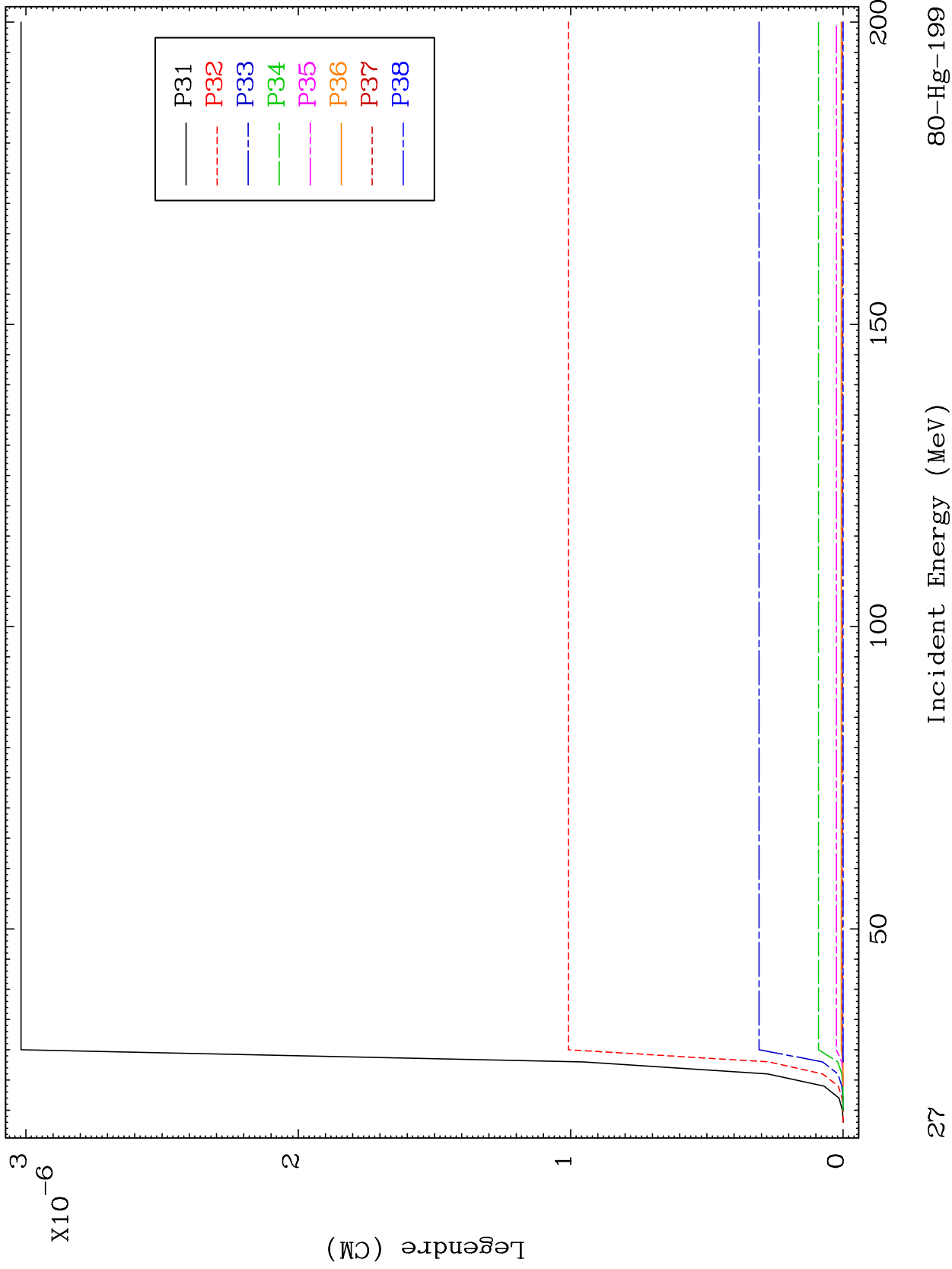
Incident Energy (MeV)

80-Hg-199

MAT 8034

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

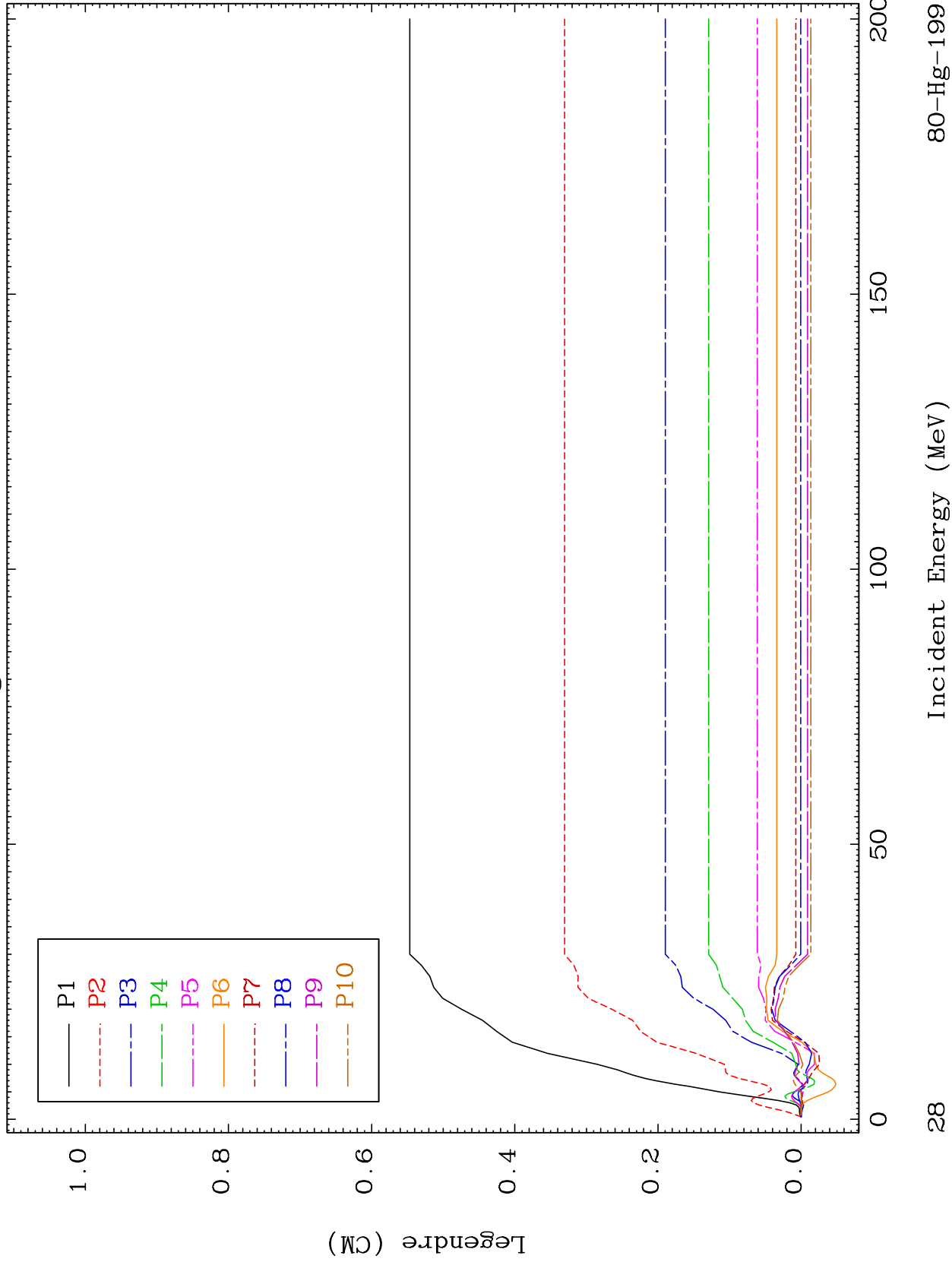
80-Hg-199



MAT 8034

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

80-Hg-199



28

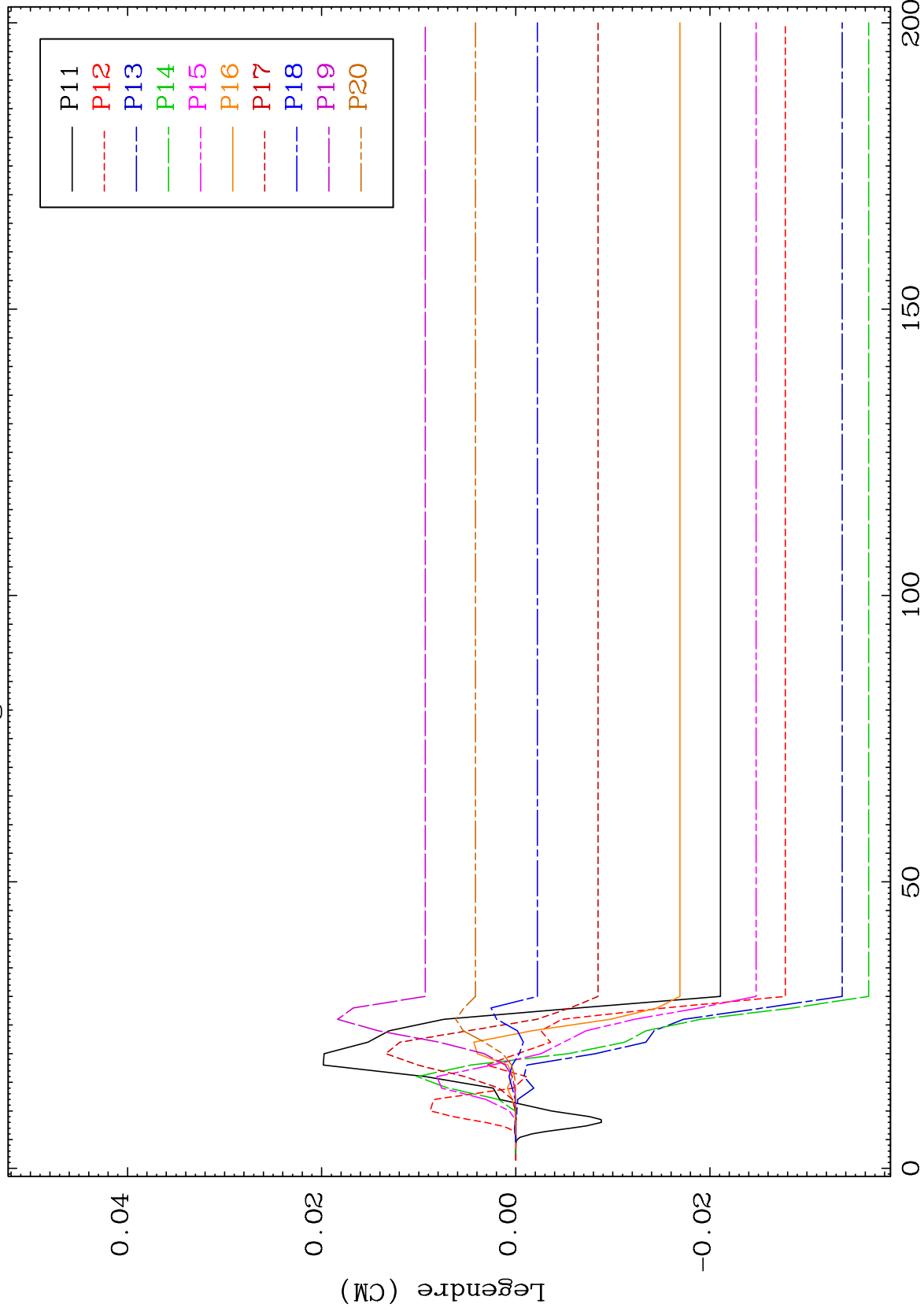
Incident Energy (MeV)

80-Hg-199

MAT 8034

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

80-Hg-199



29

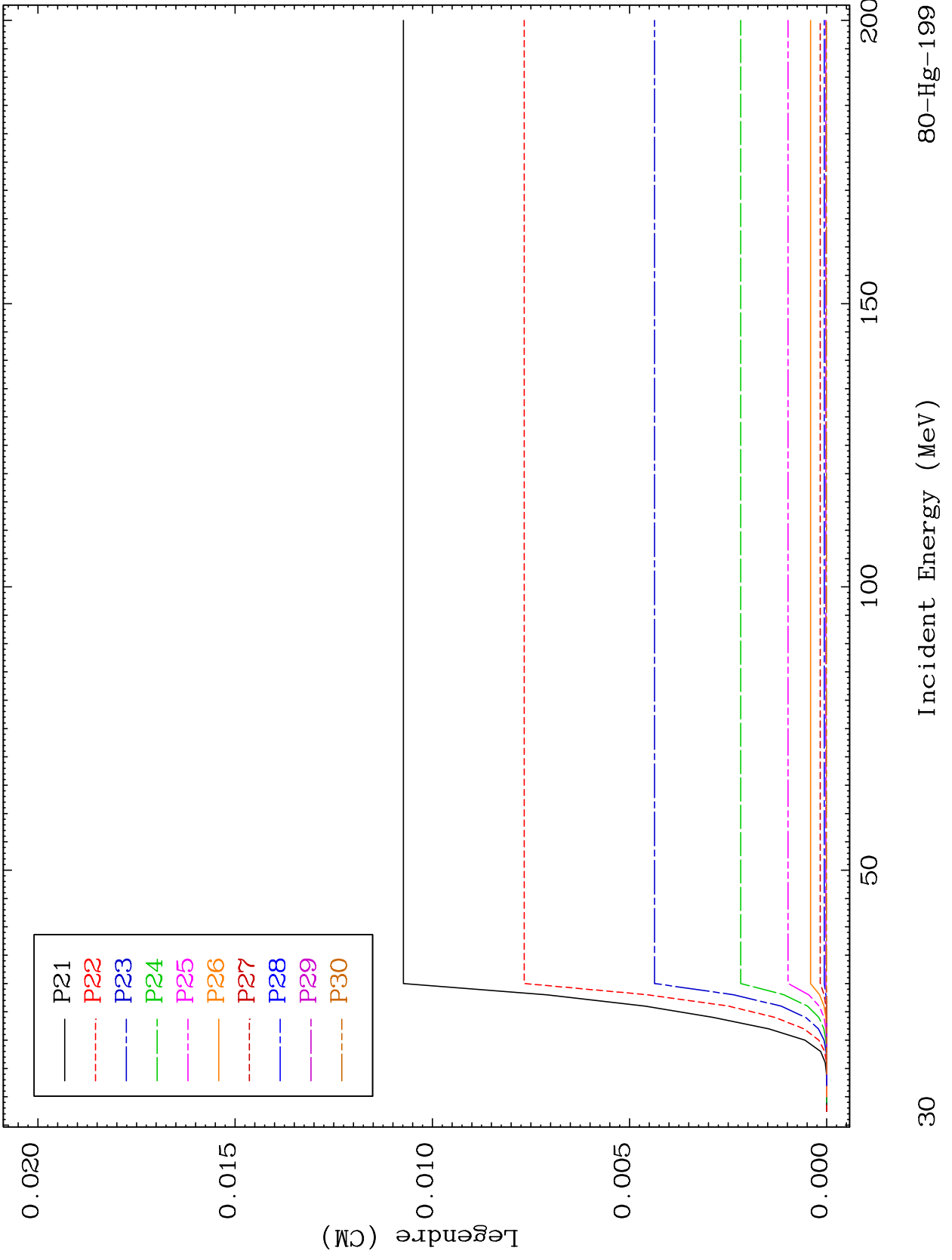
Incident Energy (MeV)

80-Hg-199

MAT 8034

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

80-Hg-199



30

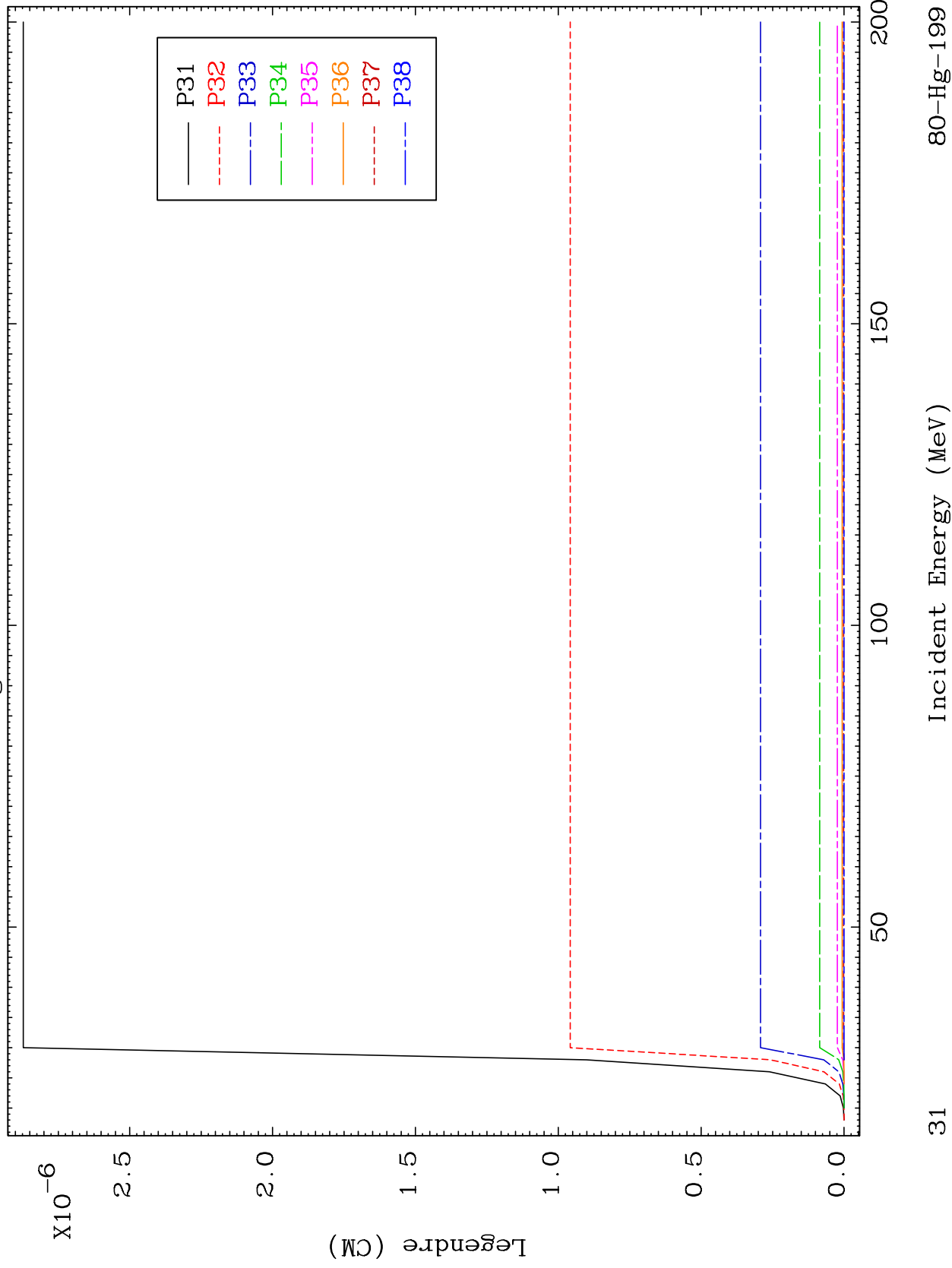
Incident Energy (MeV)

80-Hg-199

MAT 8034

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

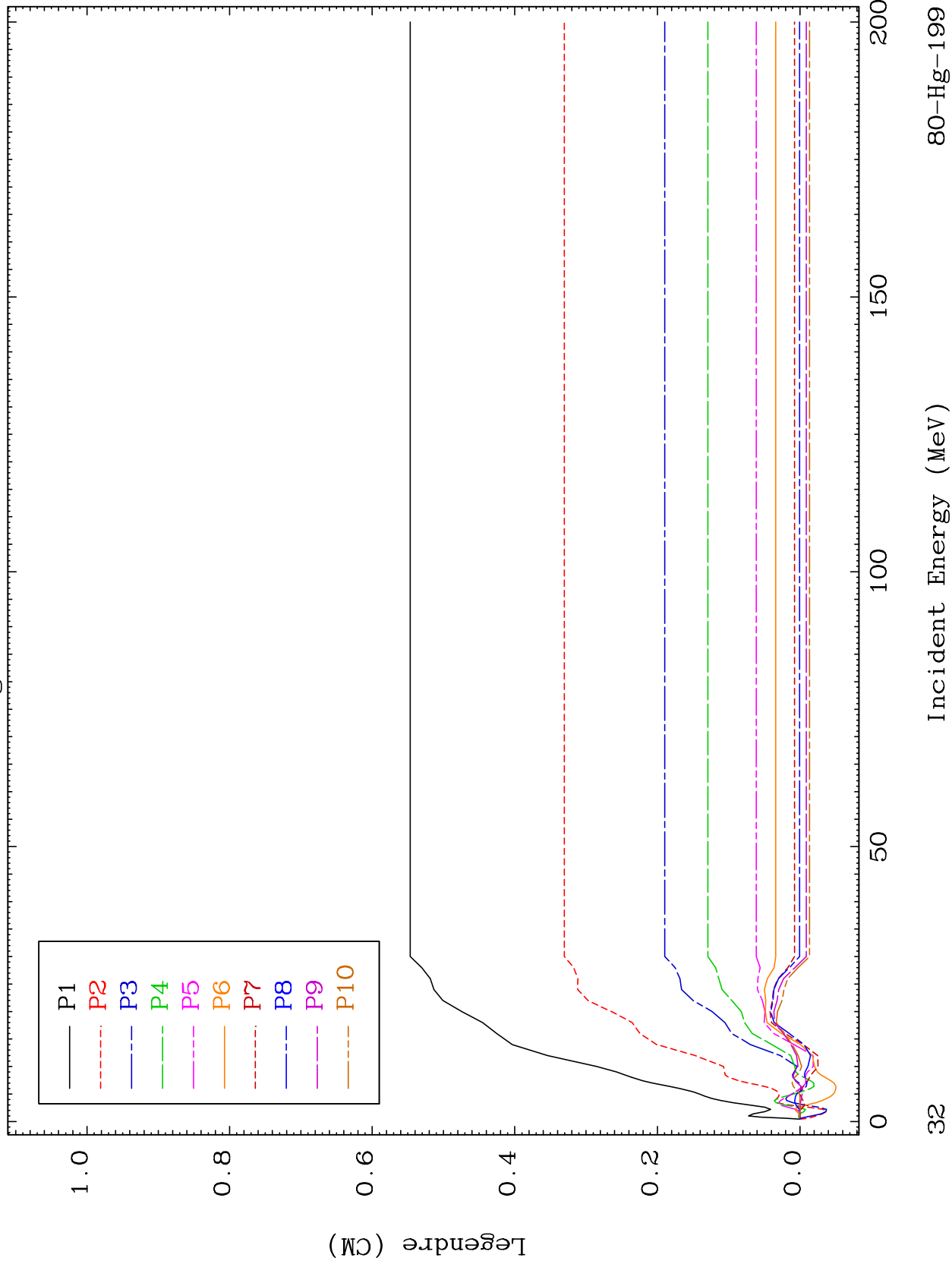
80-Hg-199



MAT 8034

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

80-Hg-199



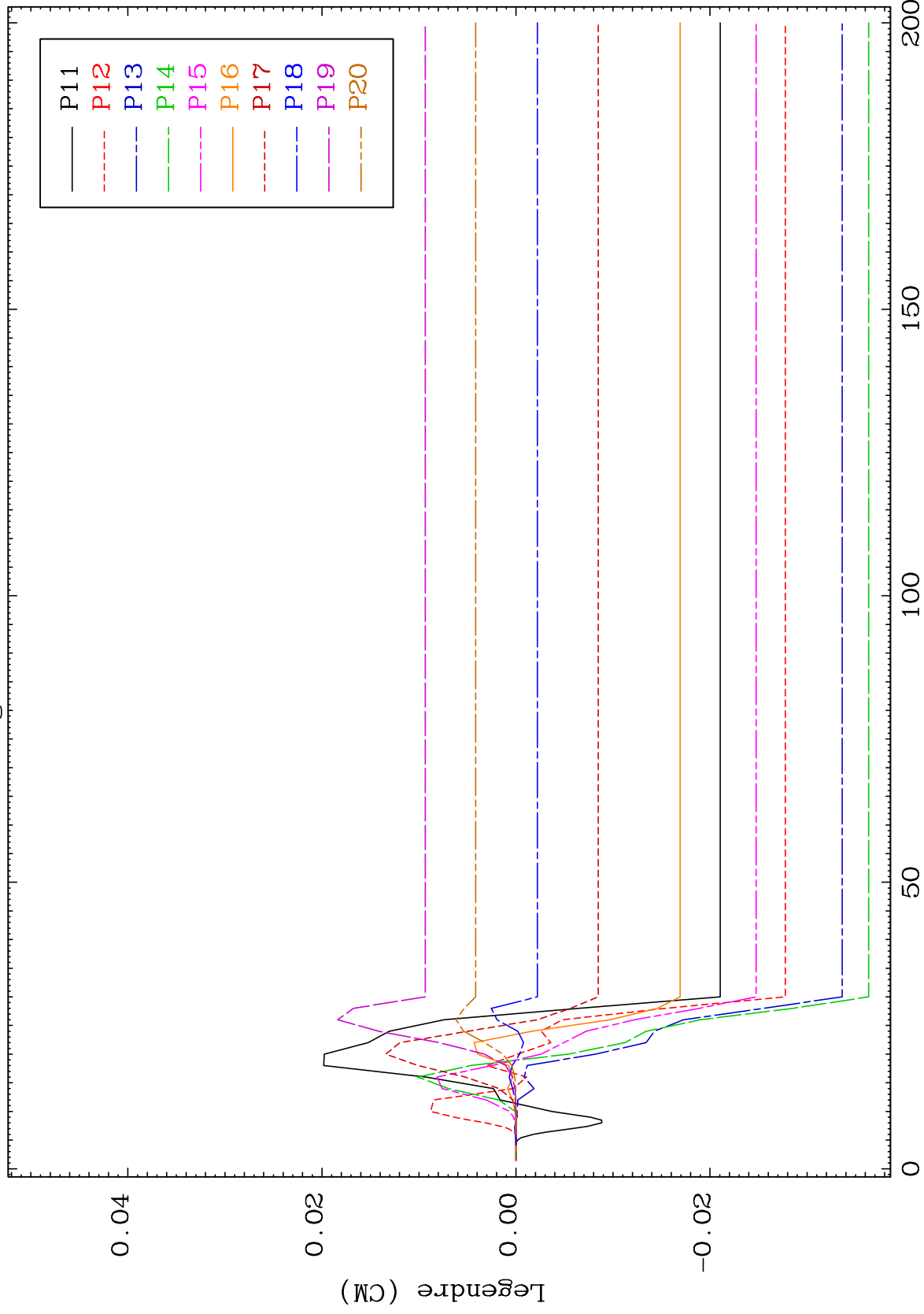
32

80-Hg-199

MAT 8034

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

80-Hg-199



33

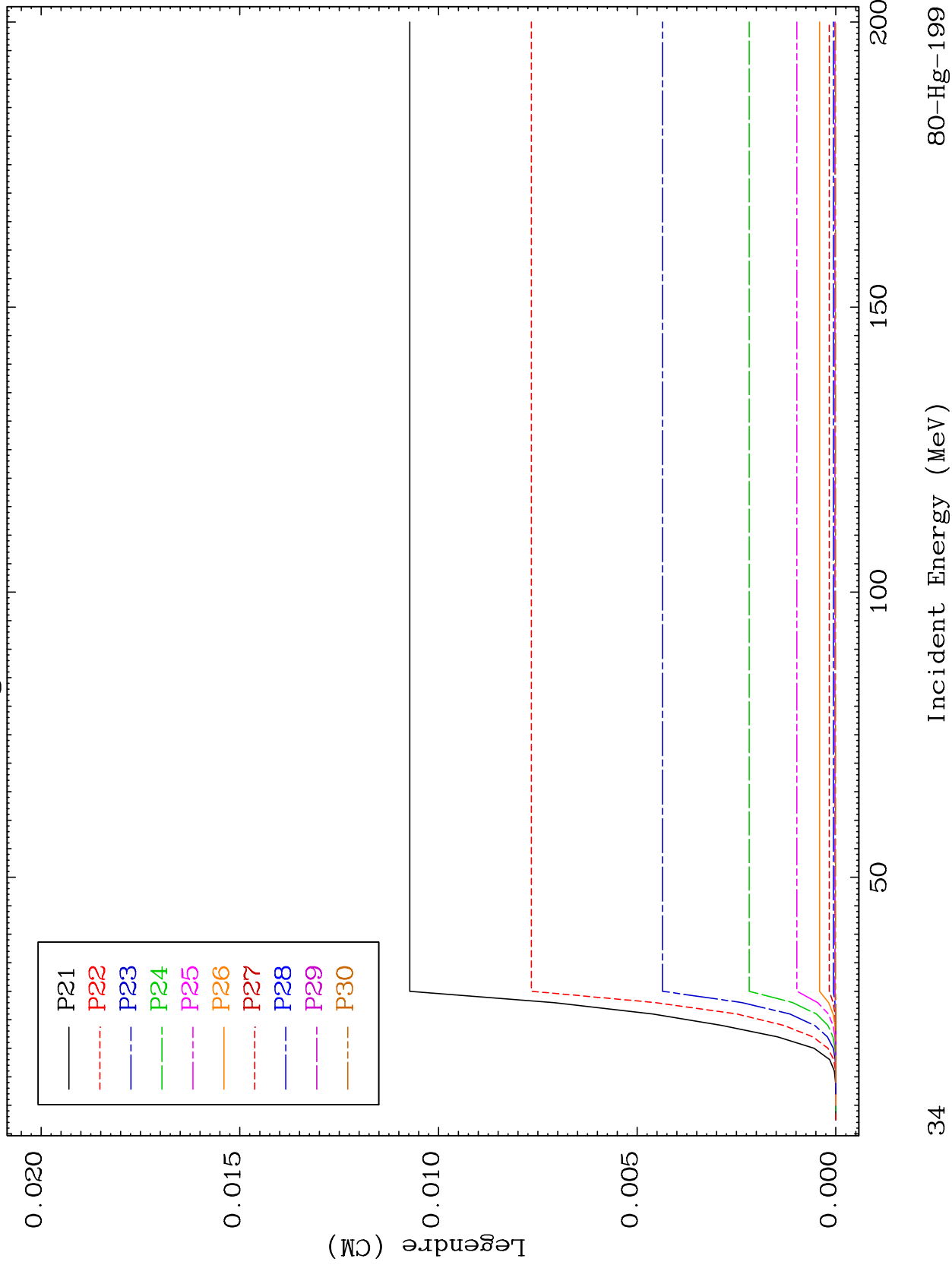
Incident Energy (MeV)

80-Hg-199

MAT 8034

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

80-Hg-199

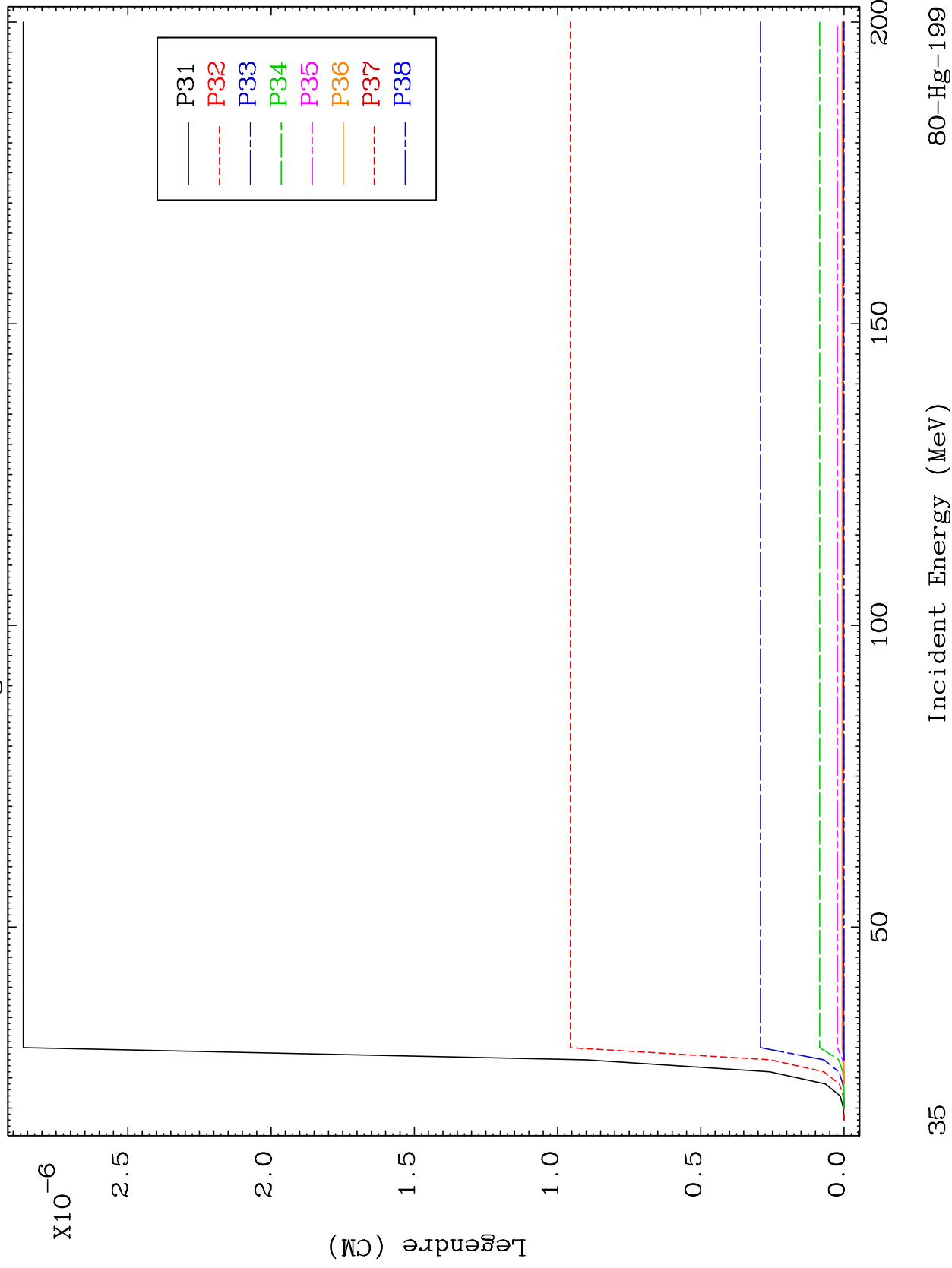


34

MAT 8034

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

80-Hg-199



35

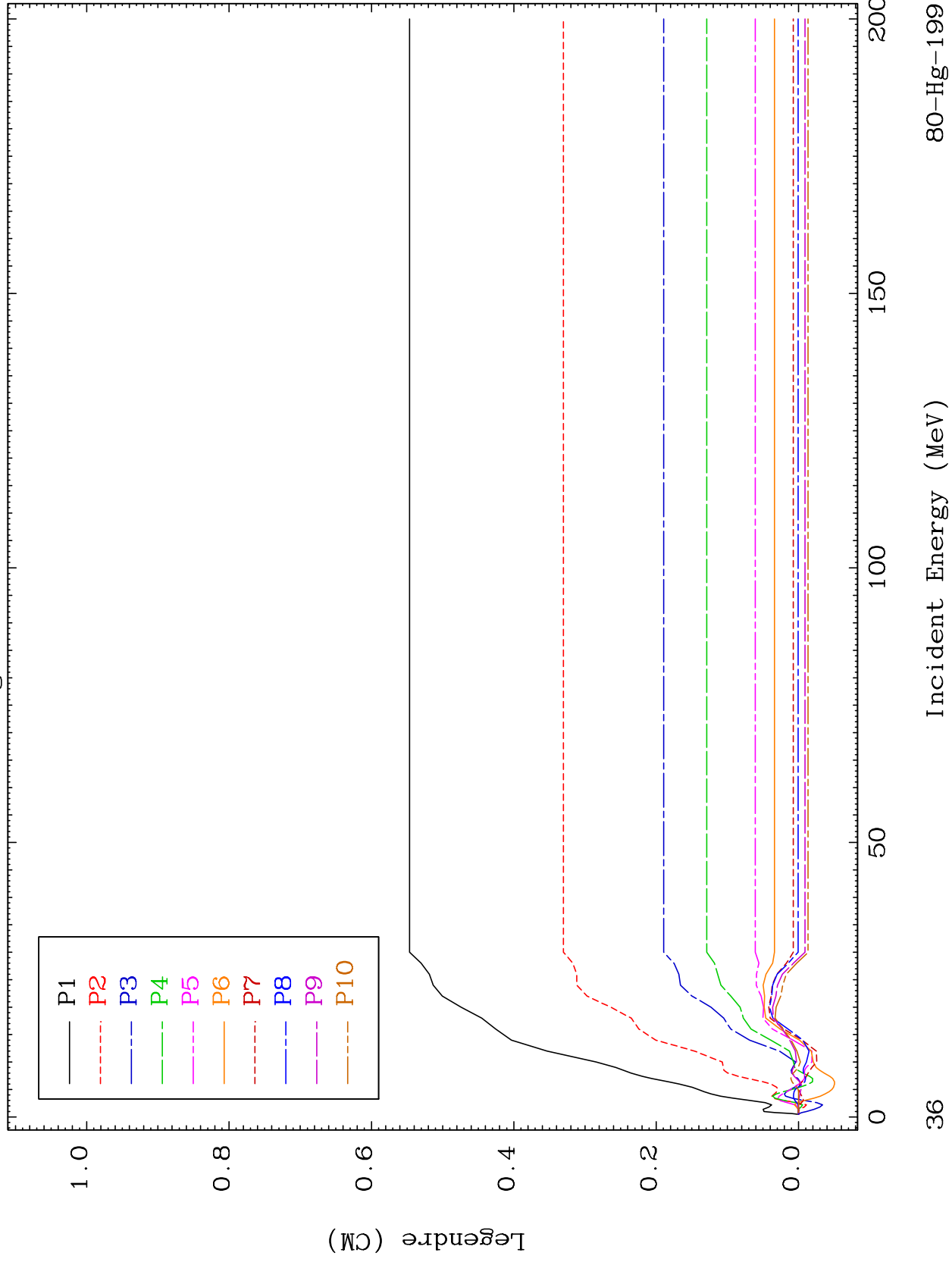
Incident Energy (MeV)

80-Hg-199

MAT 8034

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

80-Hg-199



36

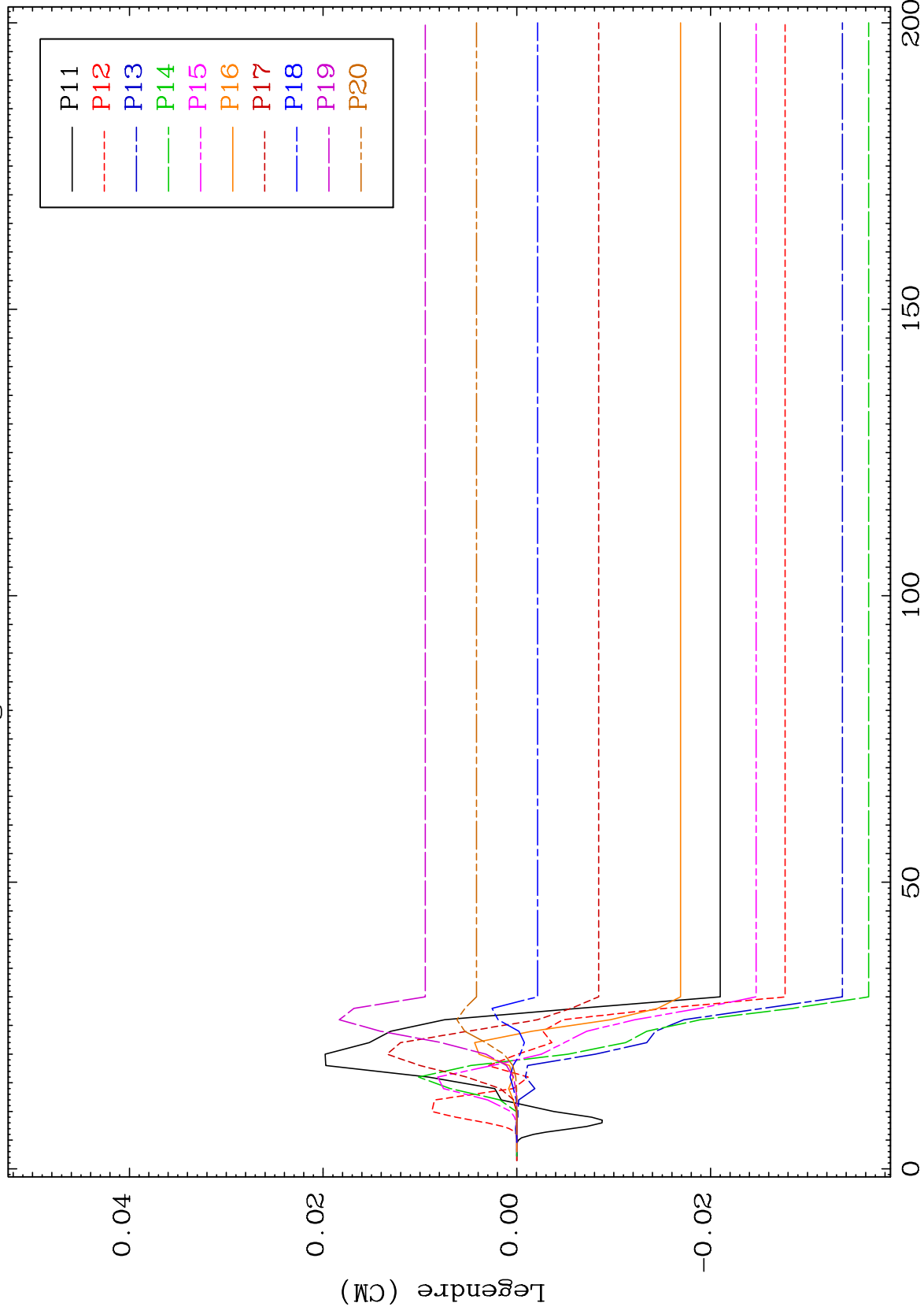
Incident Energy (MeV)

80-Hg-199

MAT 8034

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

80-Hg-199



37

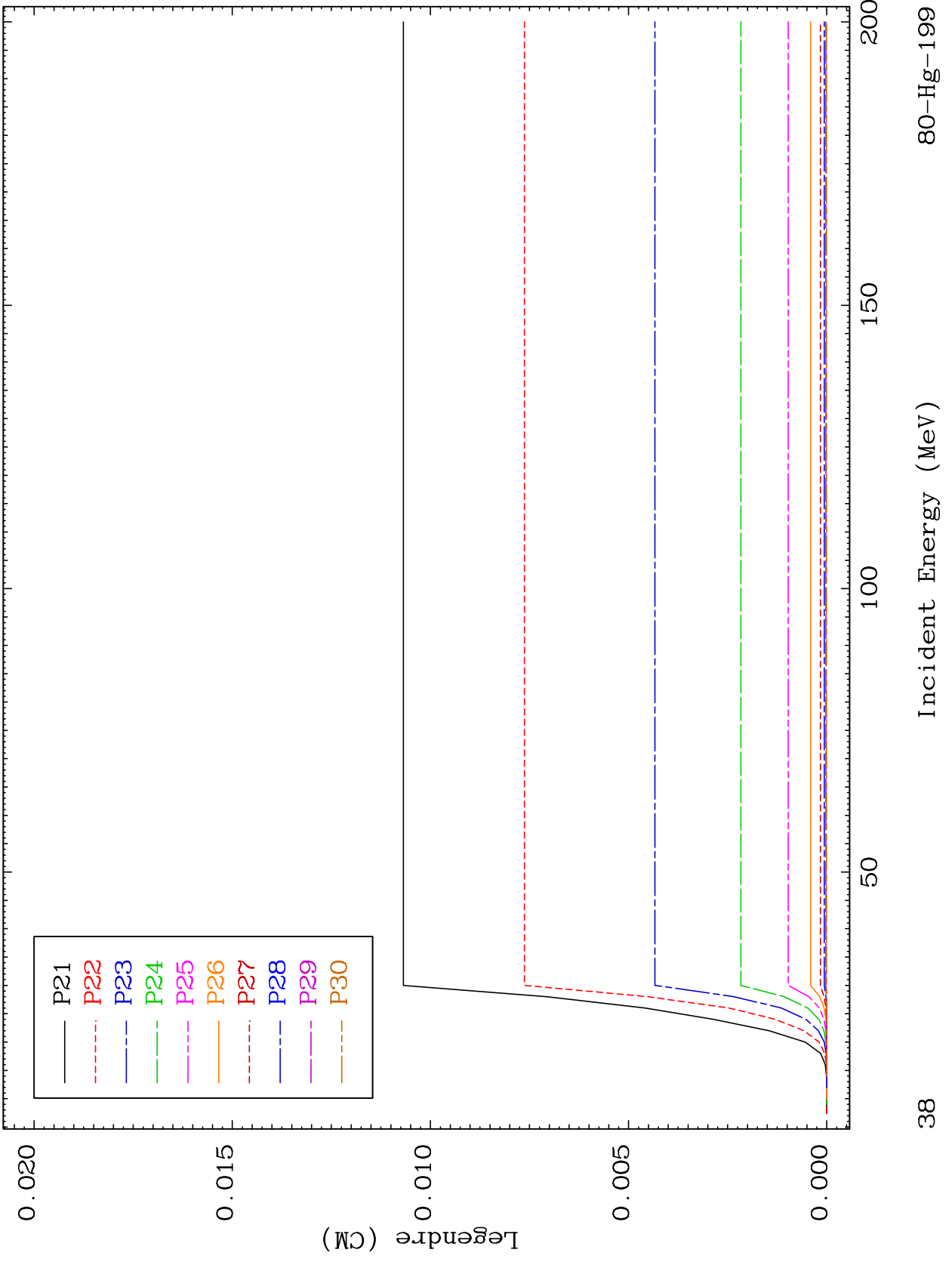
Incident Energy (MeV)

80-Hg-199

MAT 8034

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

80-Hg-199



38

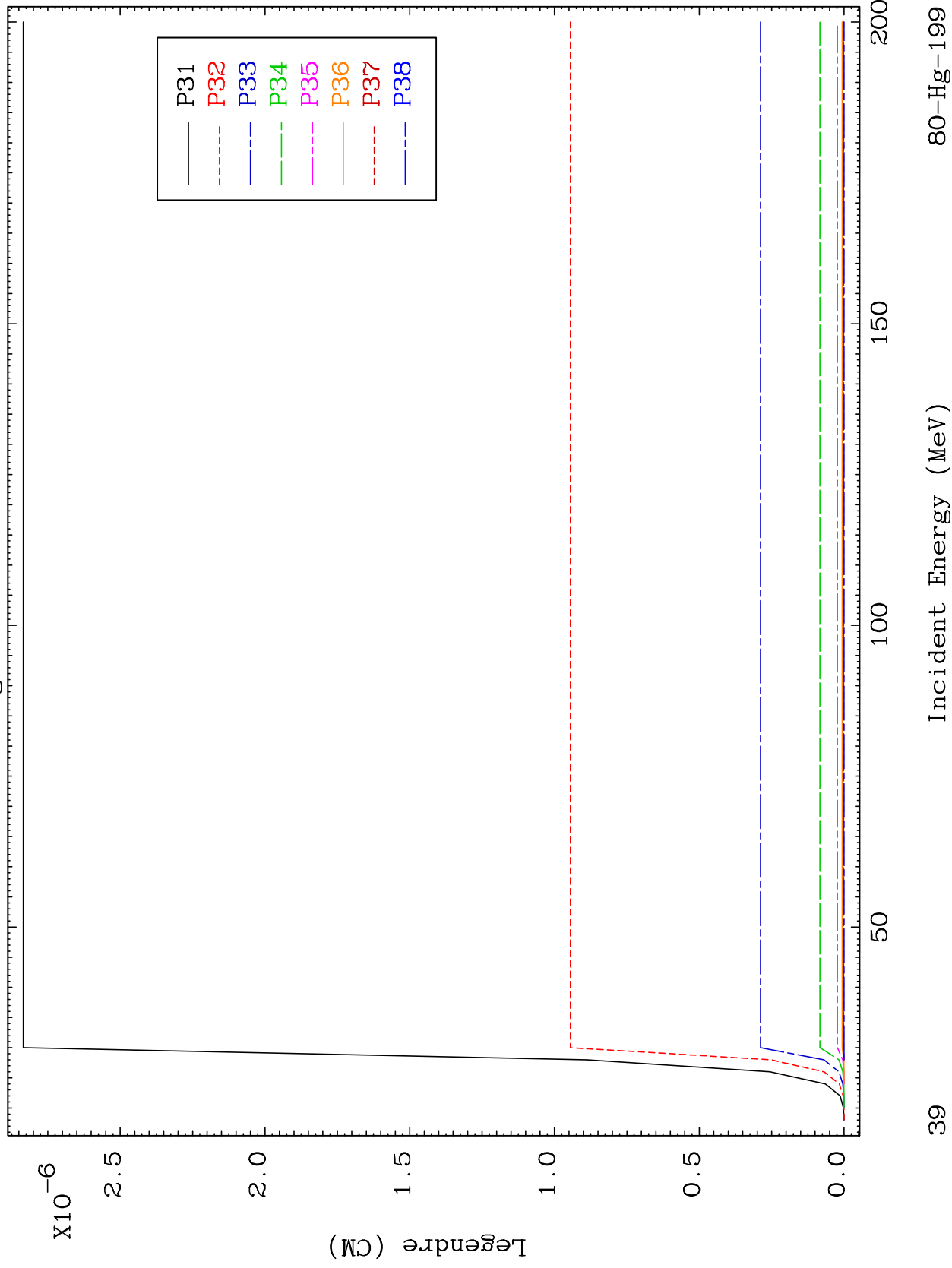
Incident Energy (MeV)

80-Hg-199

MAT 8034

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

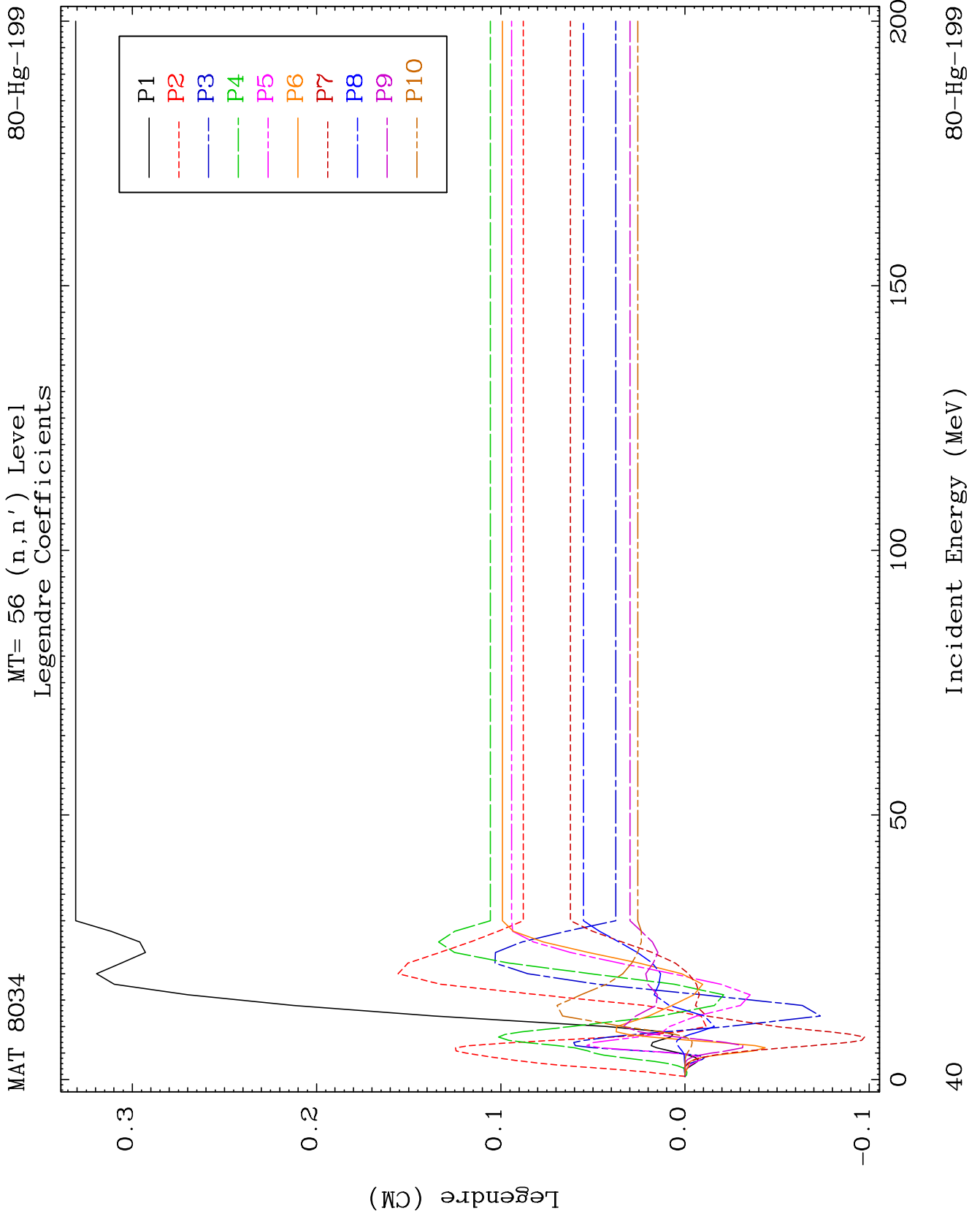
80-Hg-199

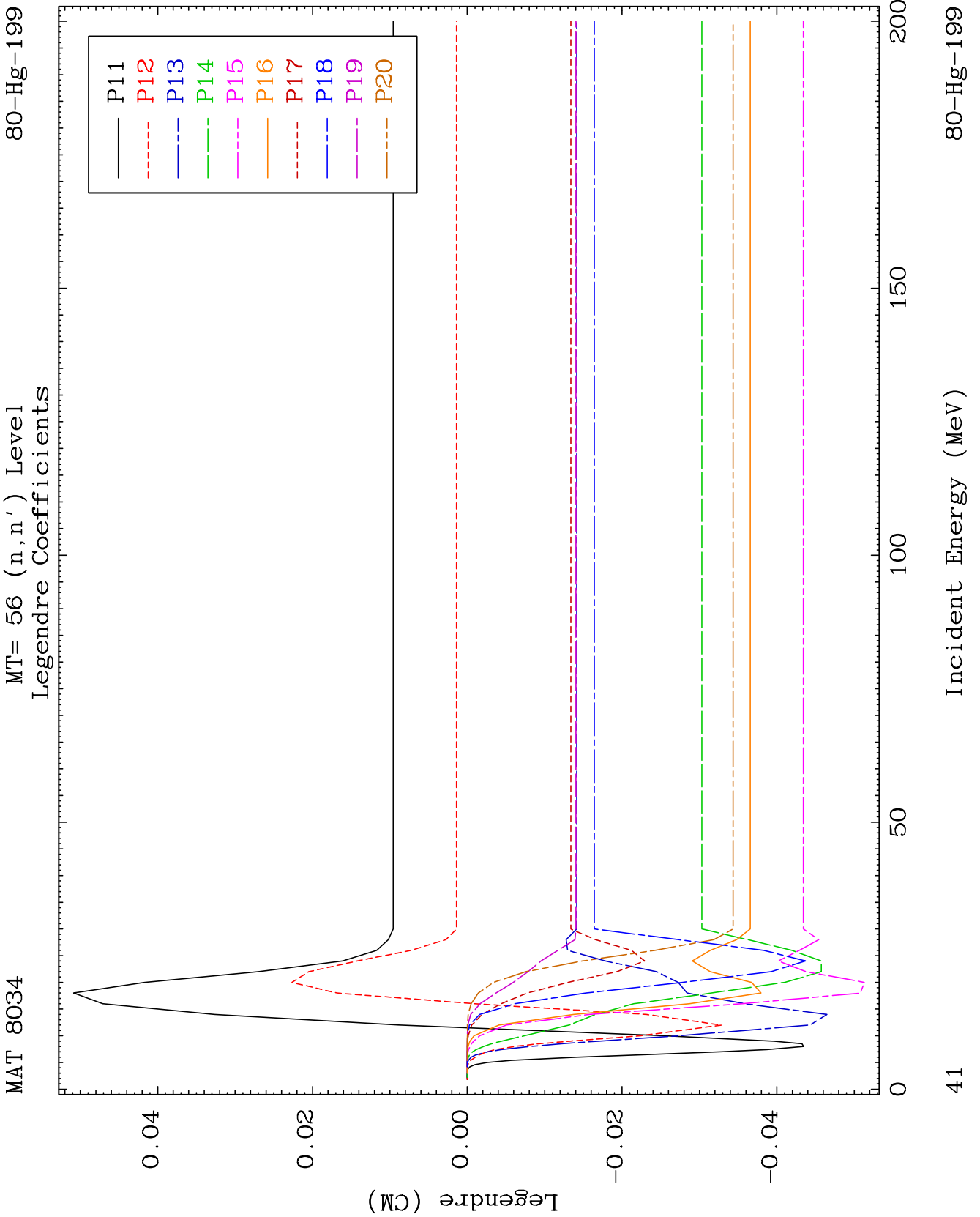


39

Incident Energy (MeV)

80-Hg-199

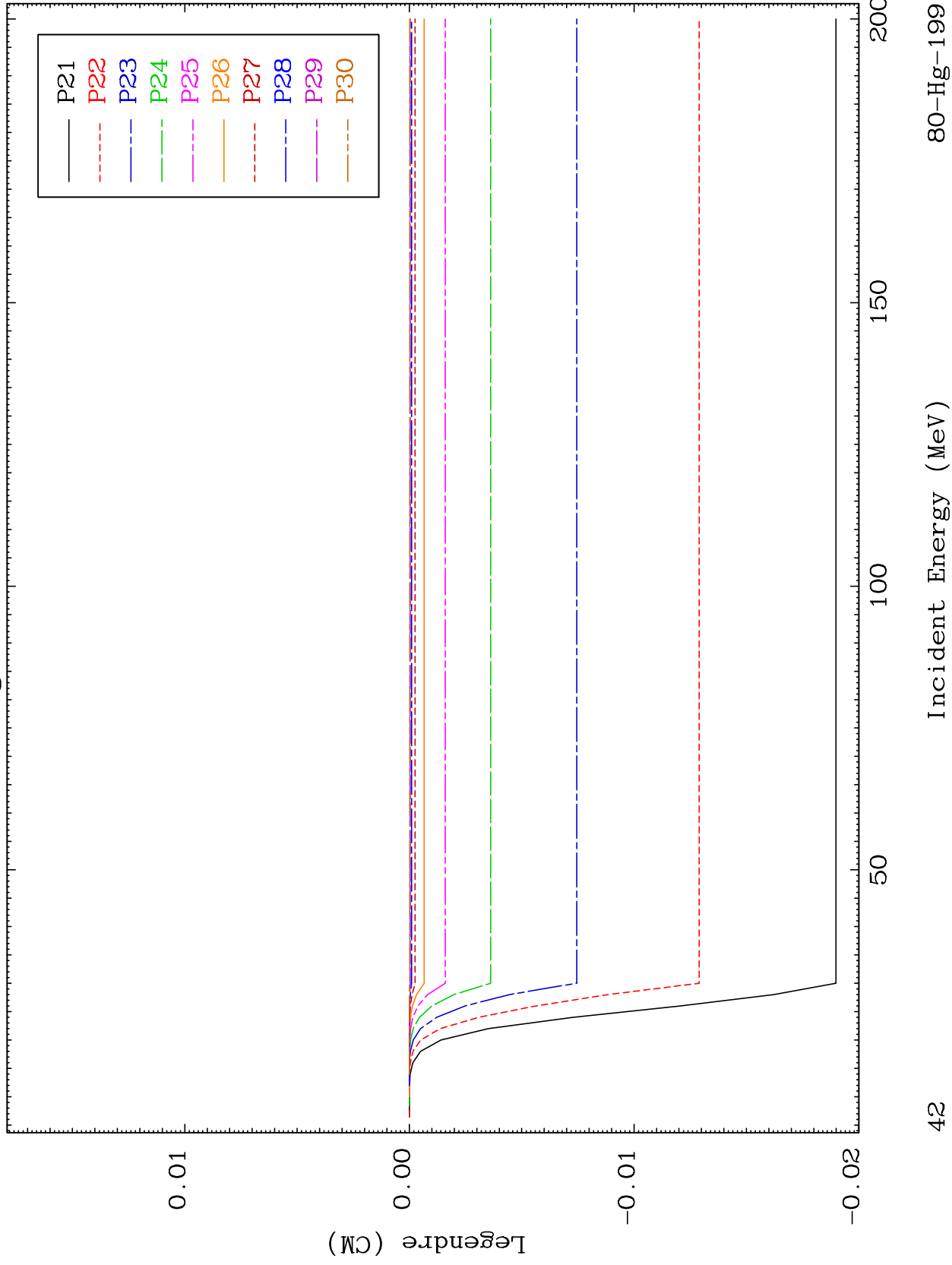




MAT 8034

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

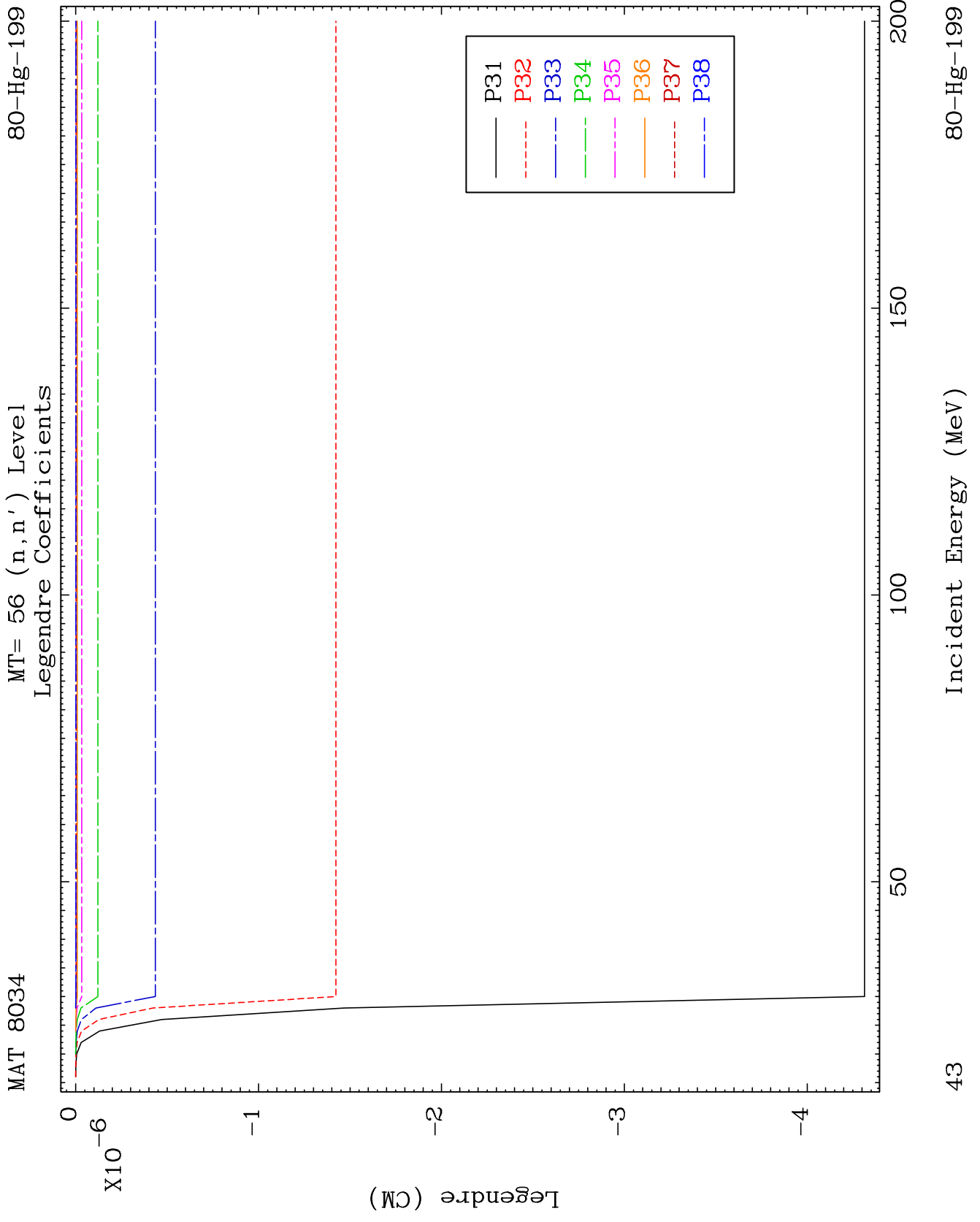
80-Hg-199



42

Incident Energy (MeV)

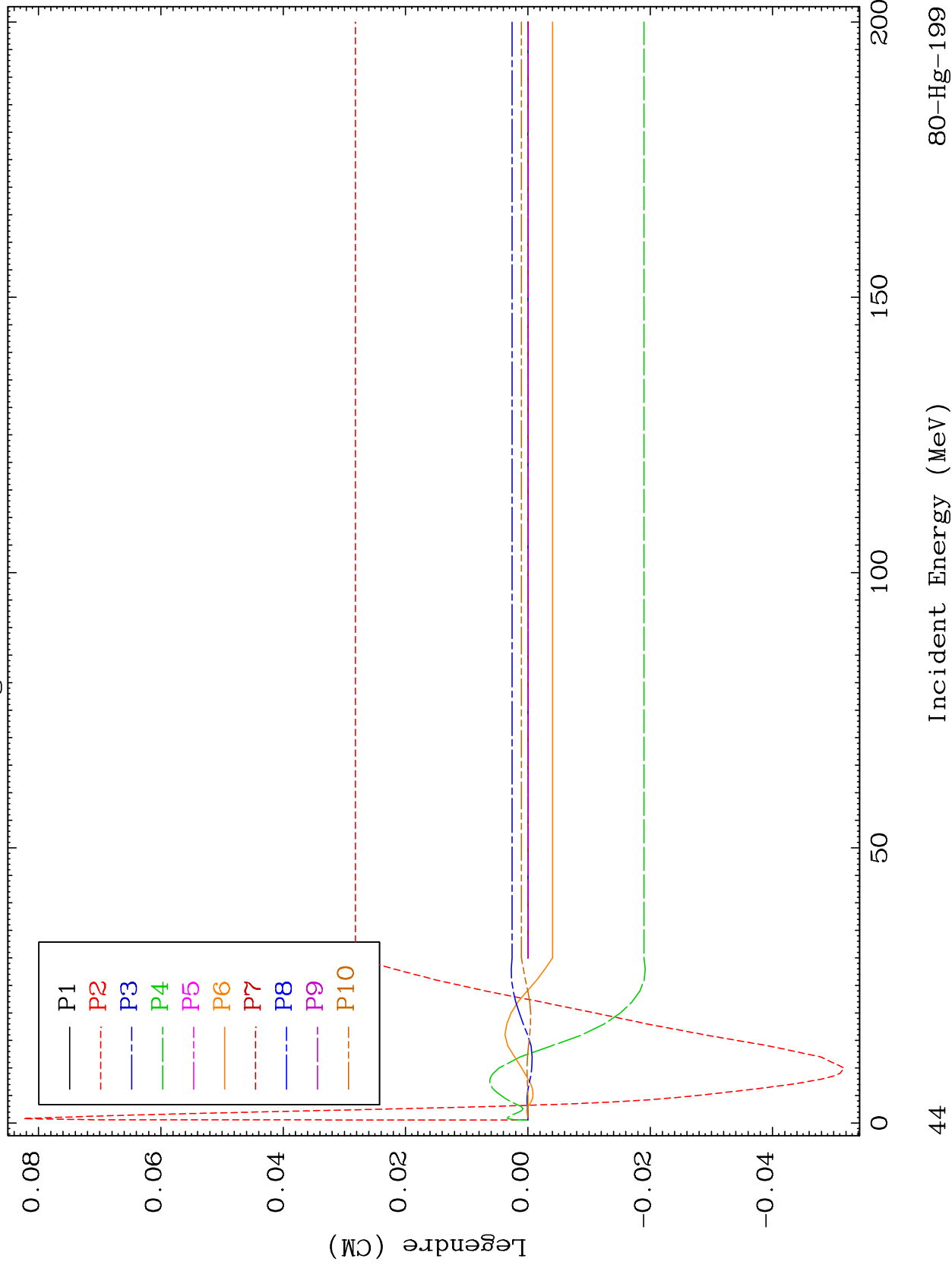
80-Hg-199



MAT 8034

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

80-Hg-199

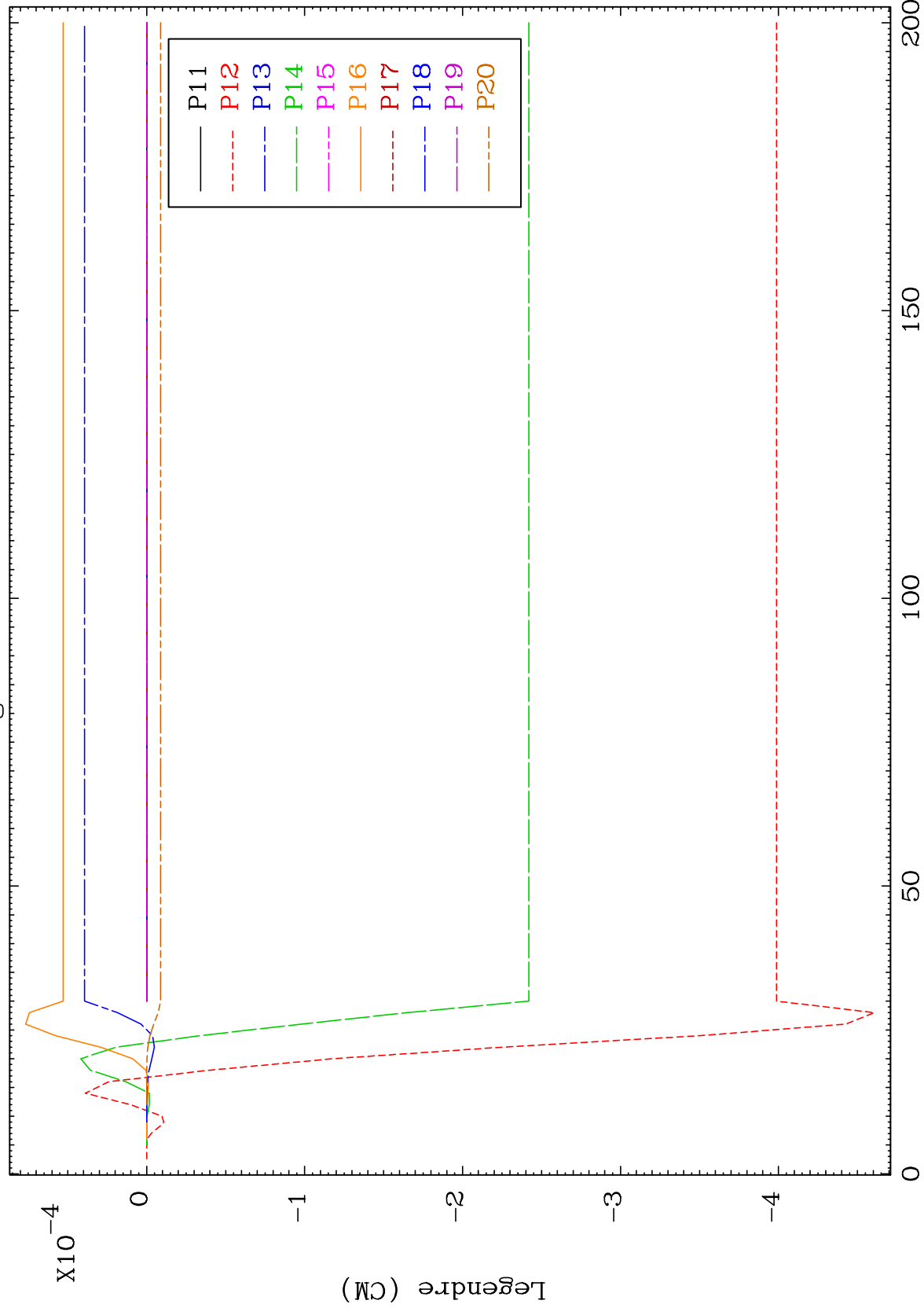


44

MAT 8034

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

80-Hg-199

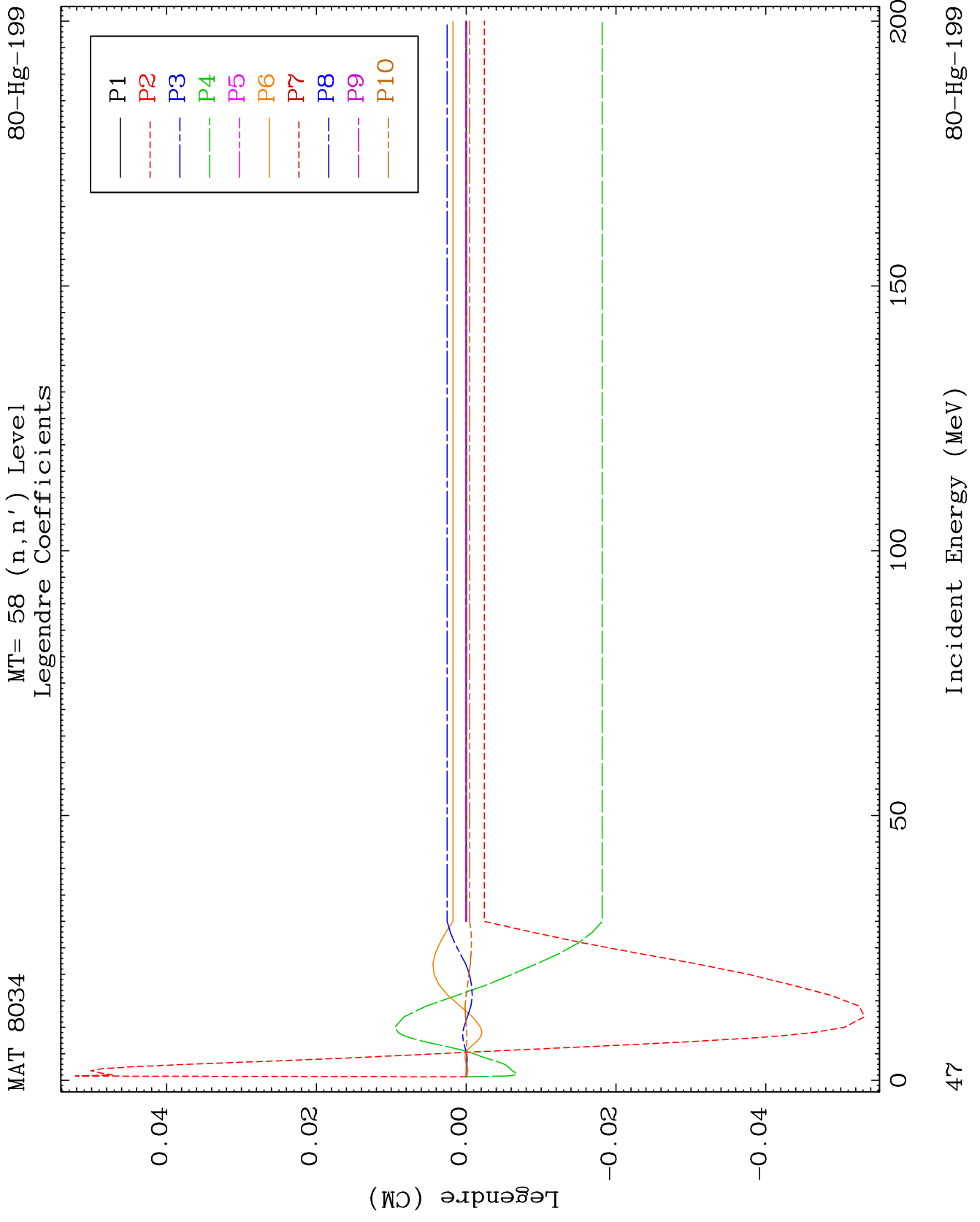


45

Incident Energy (MeV)

80-Hg-199

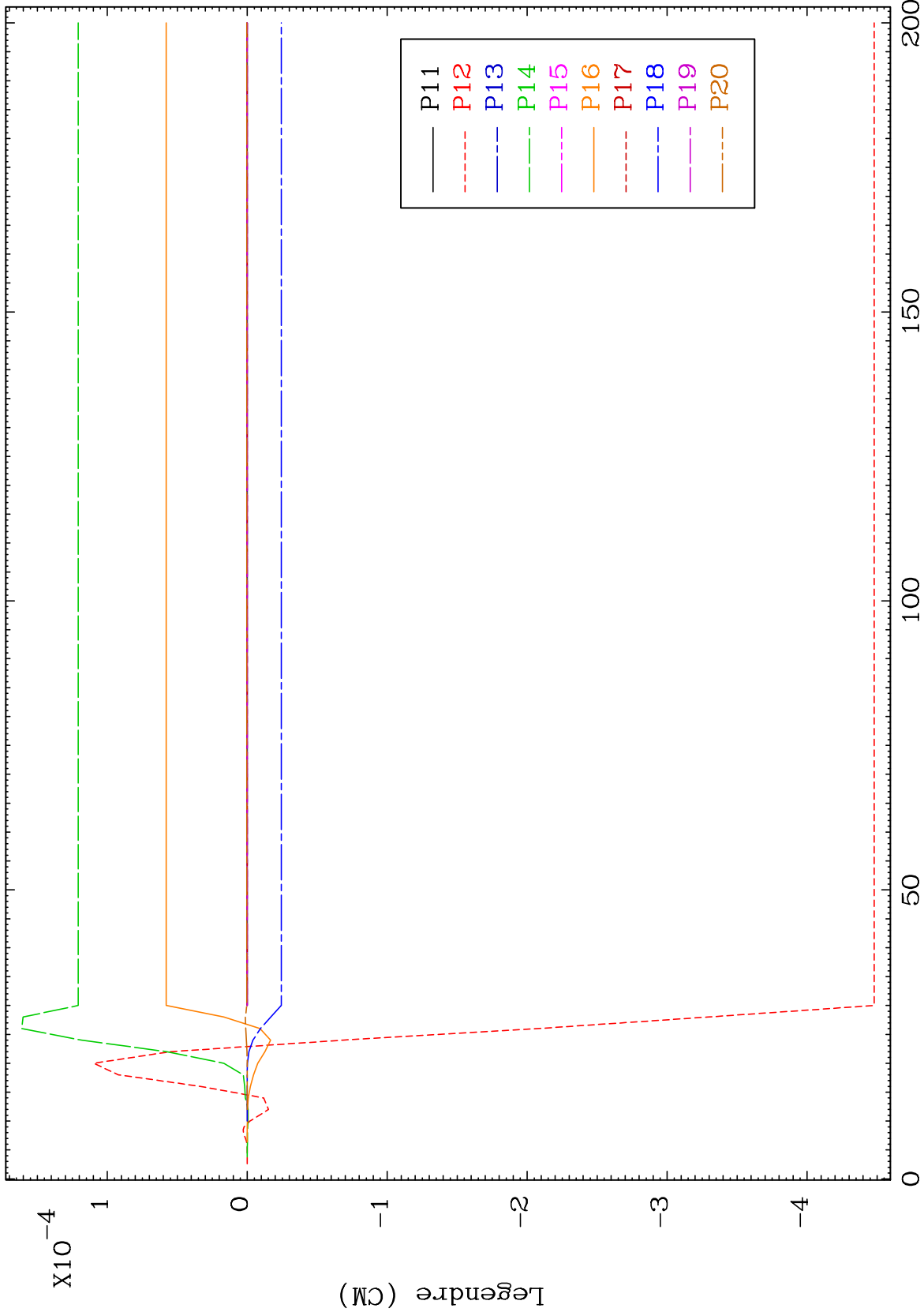




MAT 8034

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

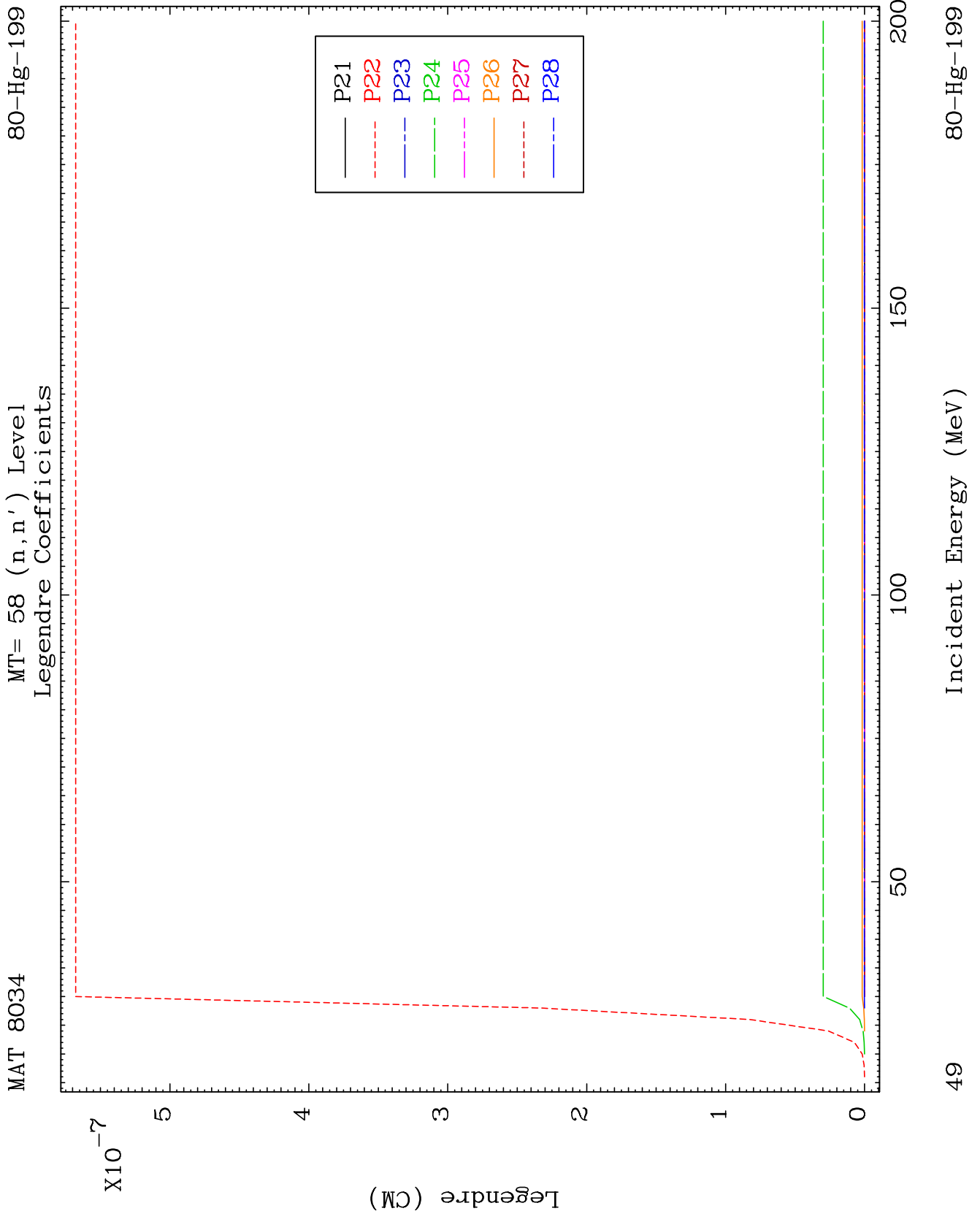
80-Hg-199

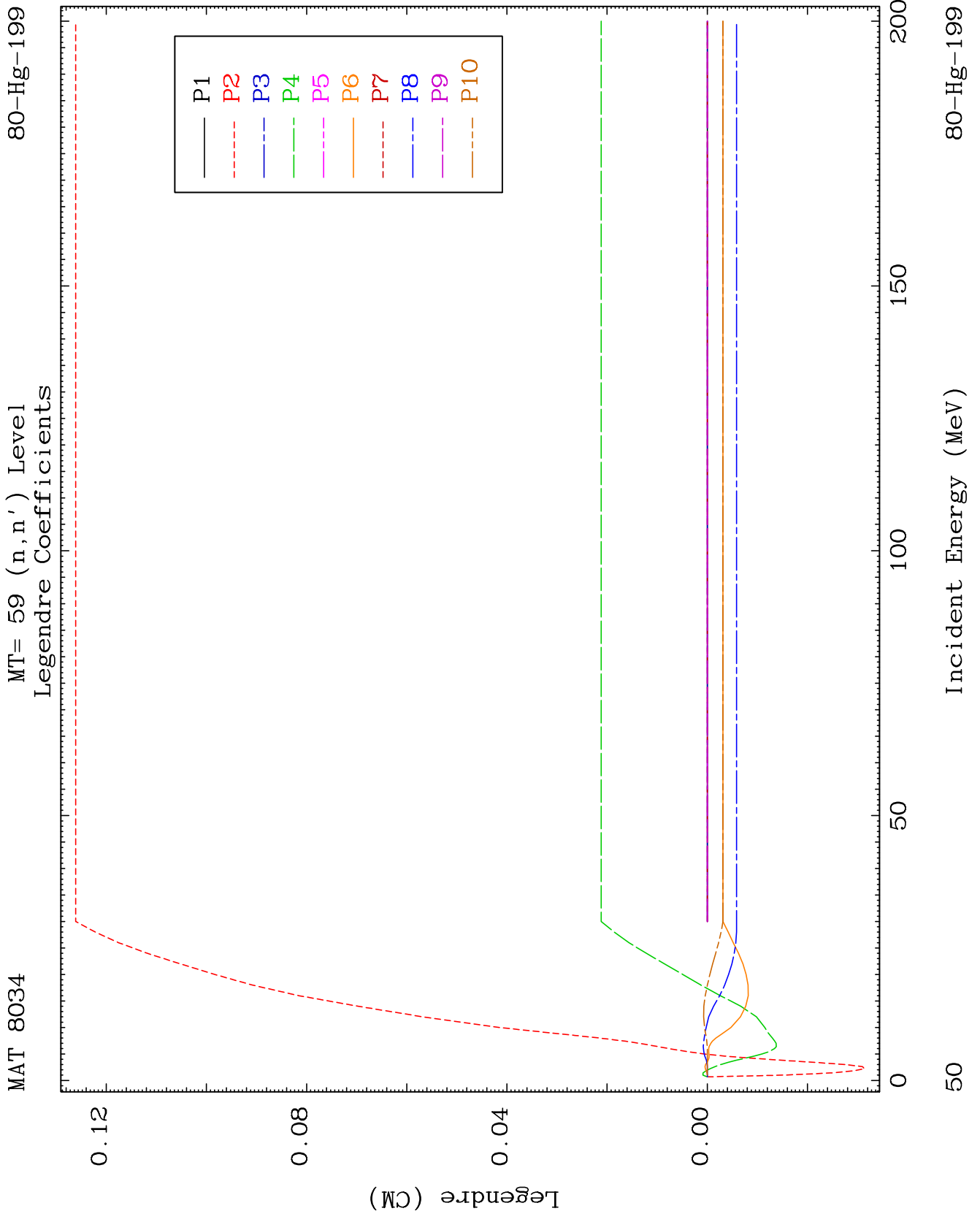


48

Incident Energy (MeV)

80-Hg-199

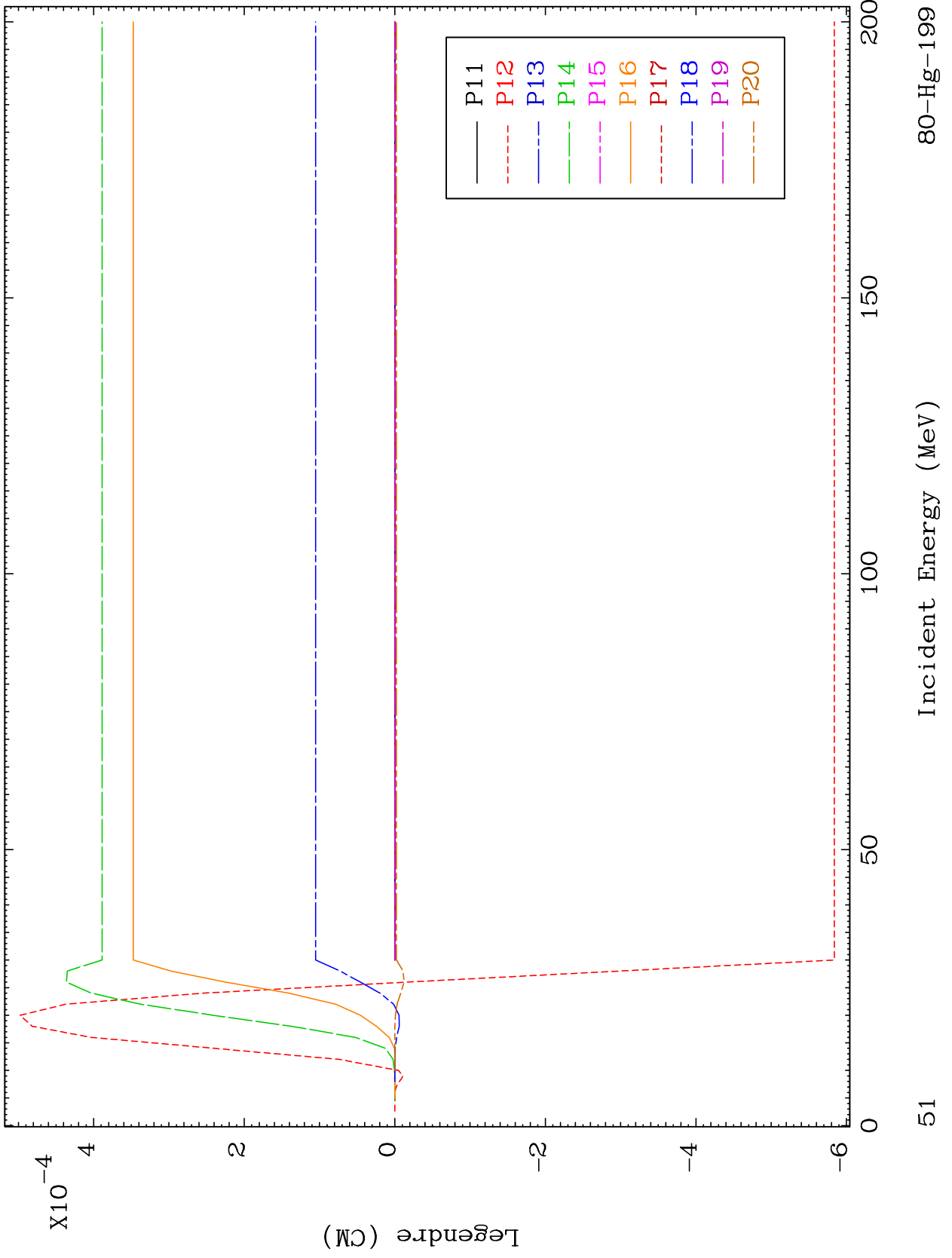




MAT 8034

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

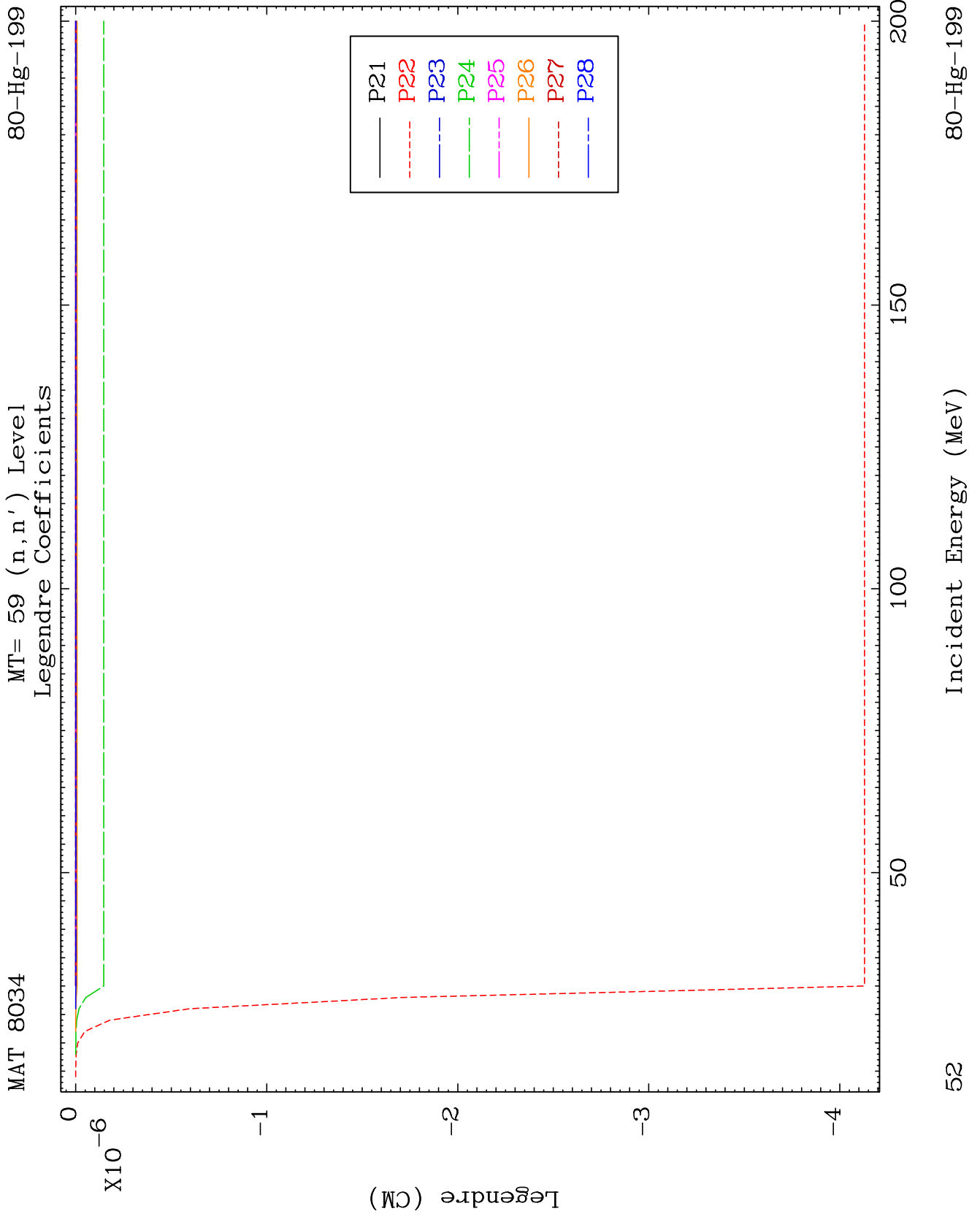
80-Hg-199

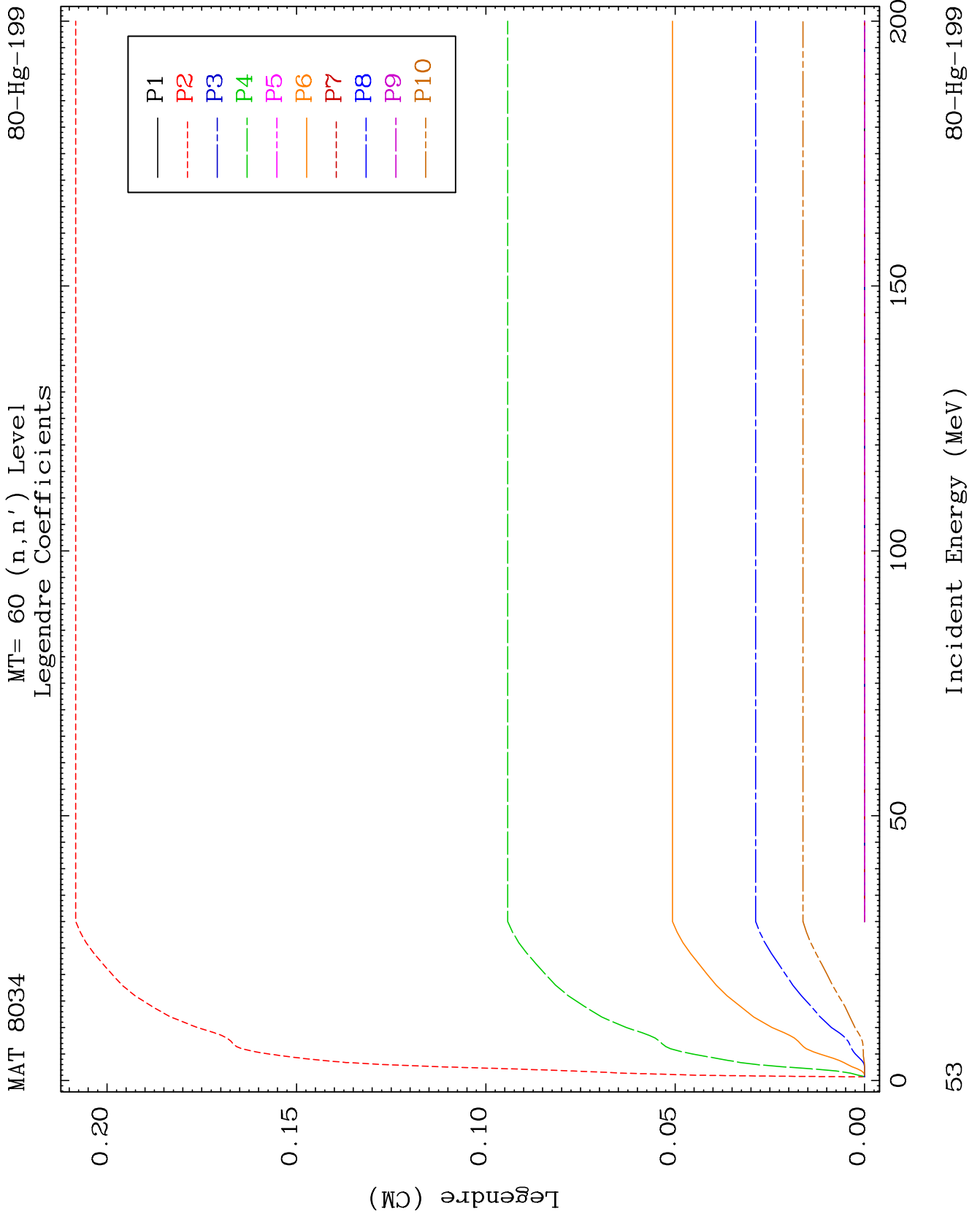


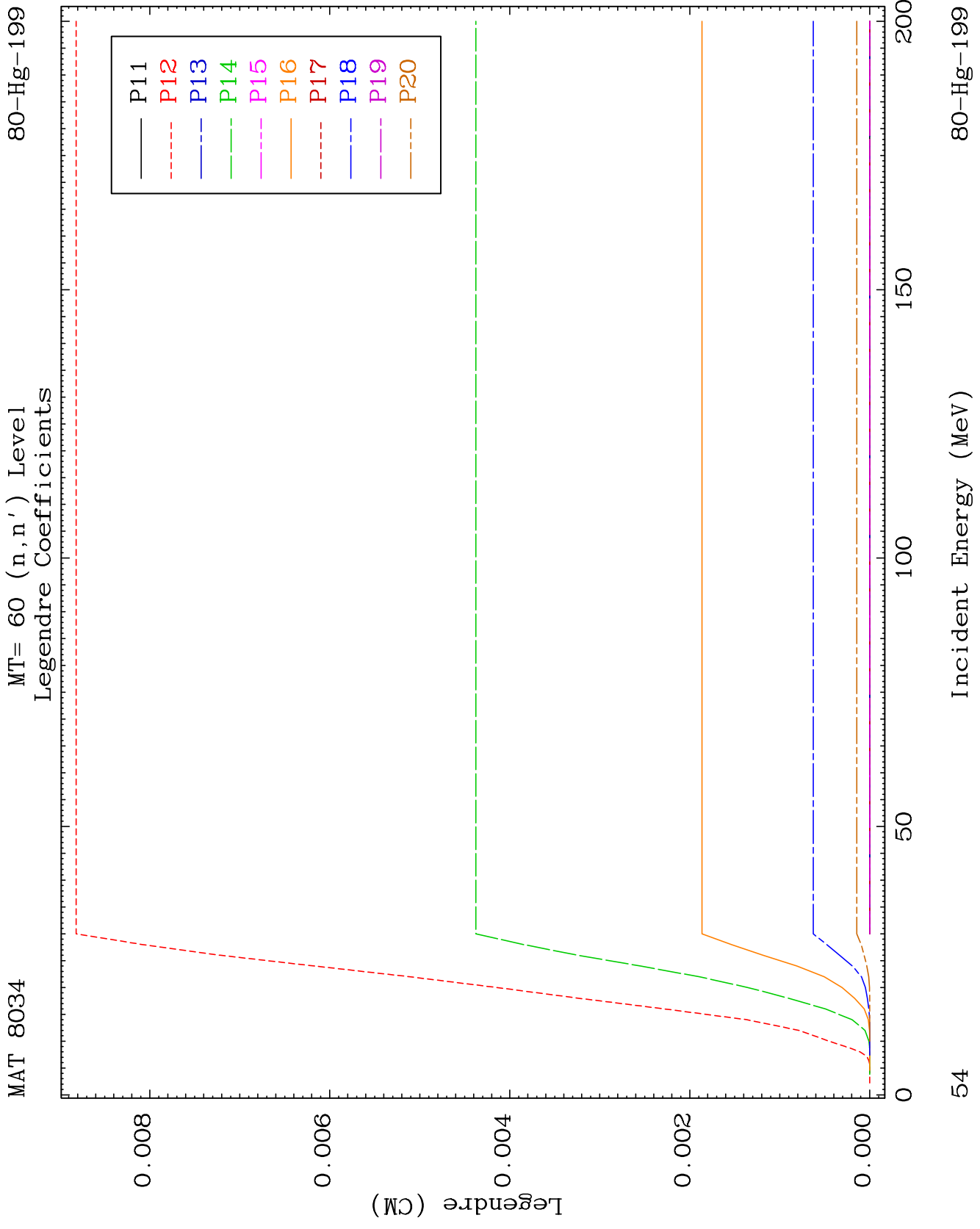
51

Incident Energy (MeV)

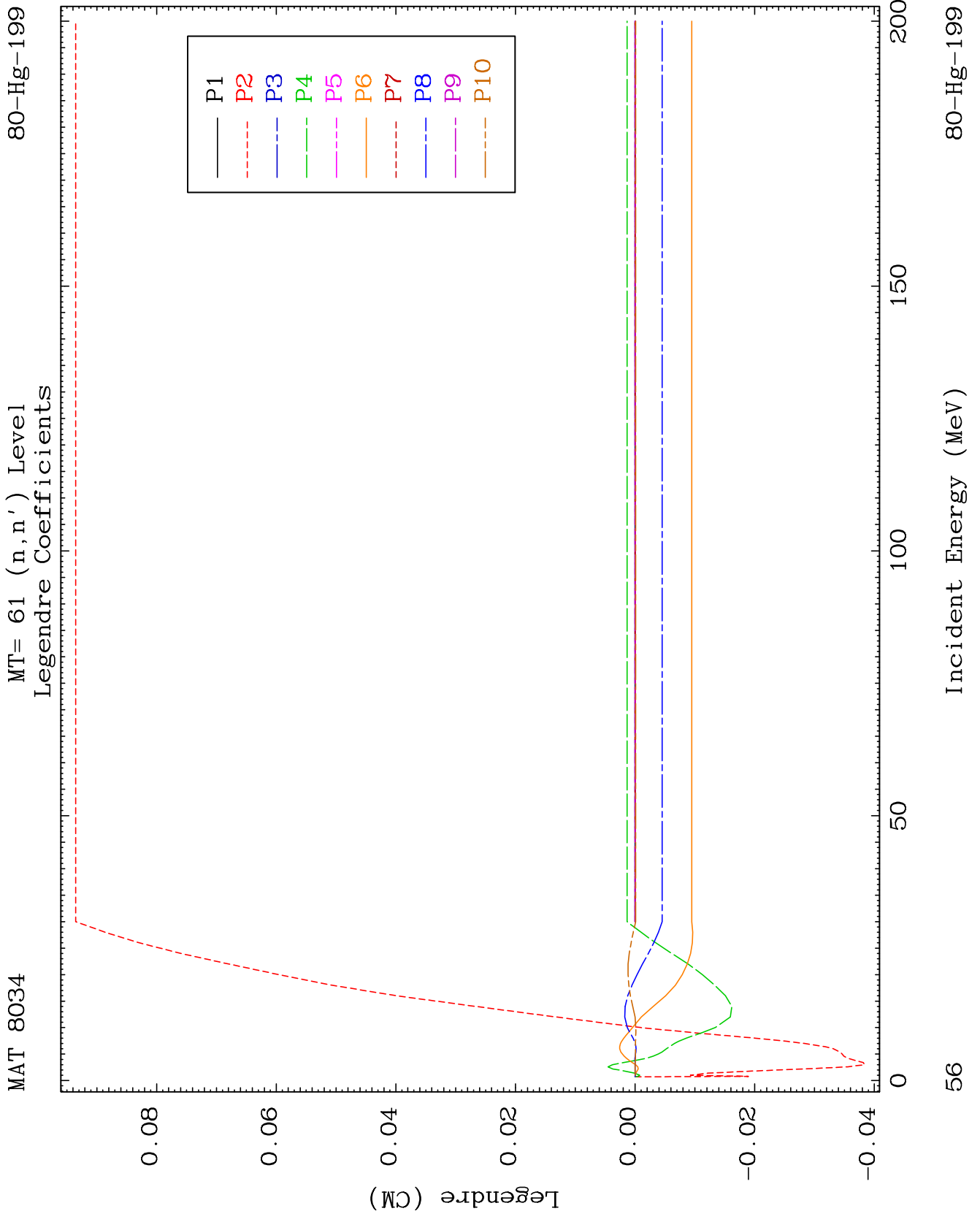
80-Hg-199

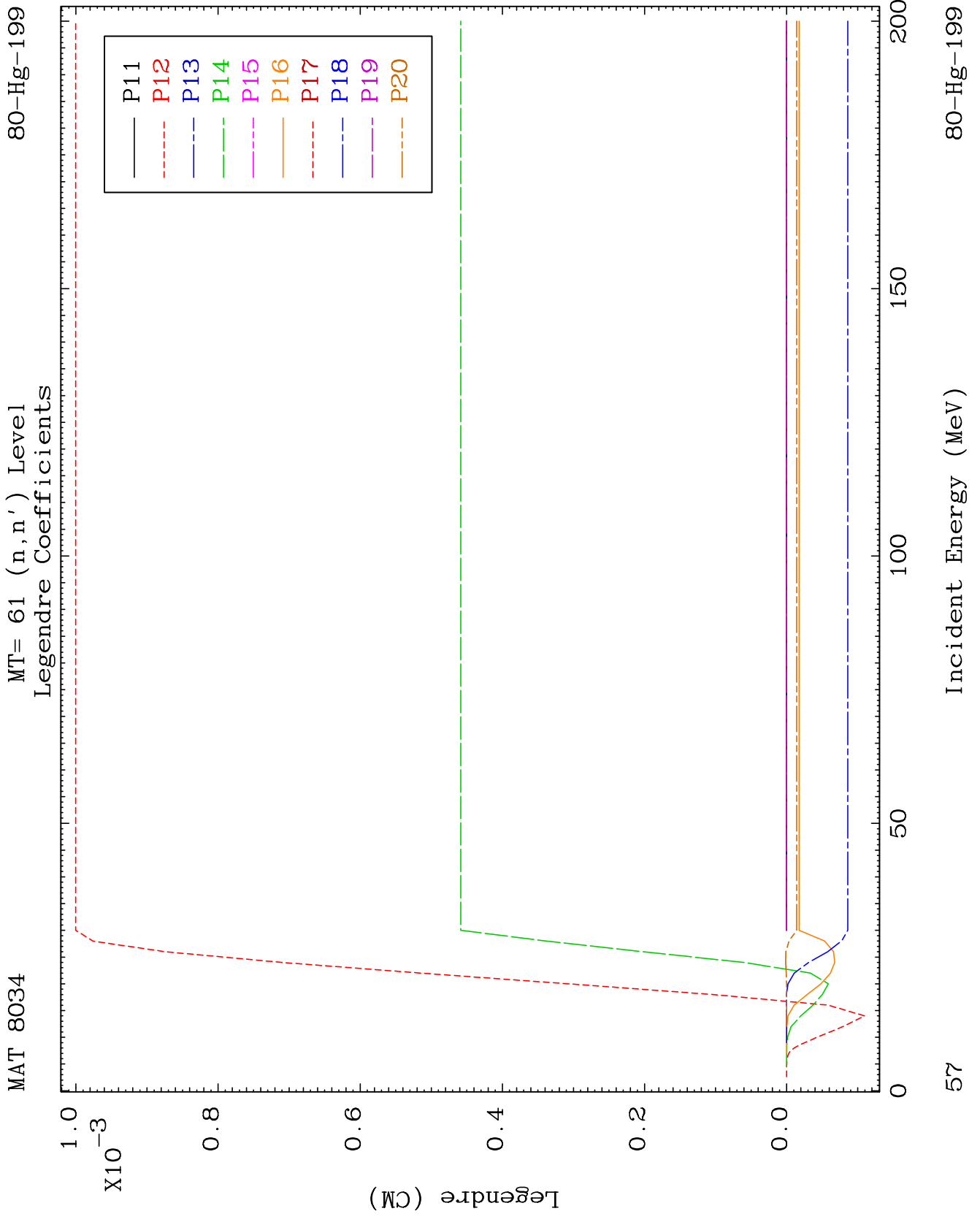


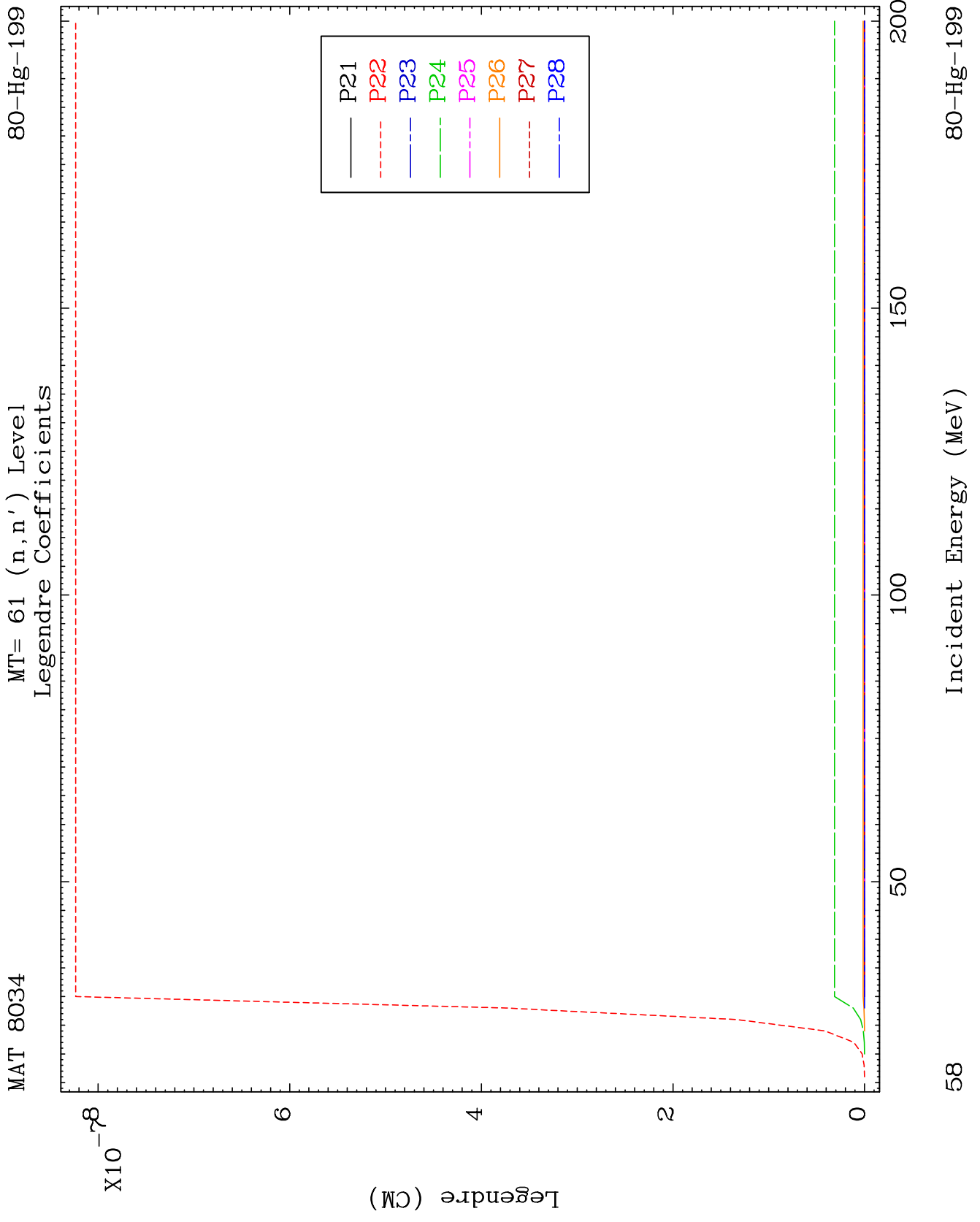








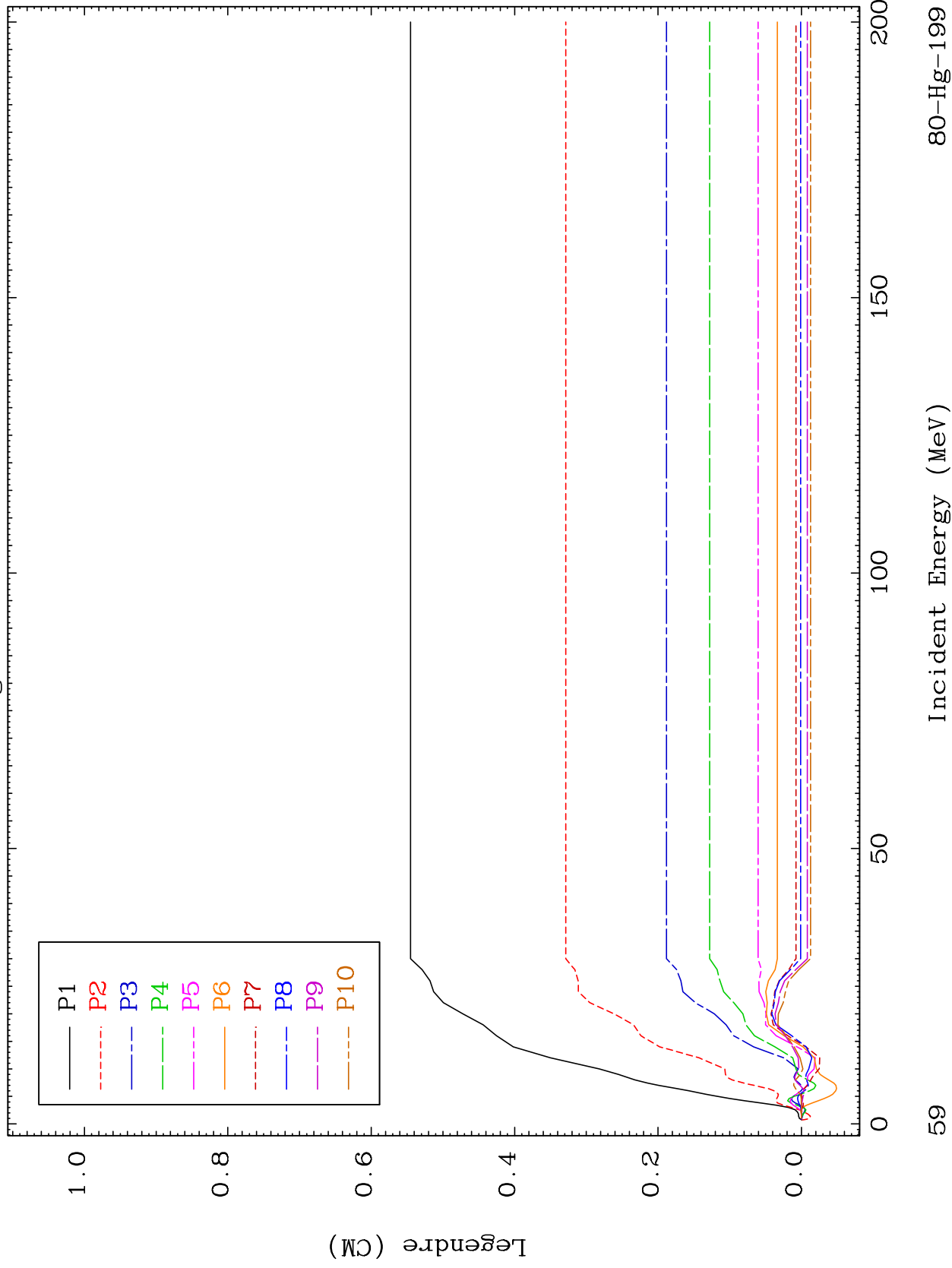




MAT 8034

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

80-Hg-199



59

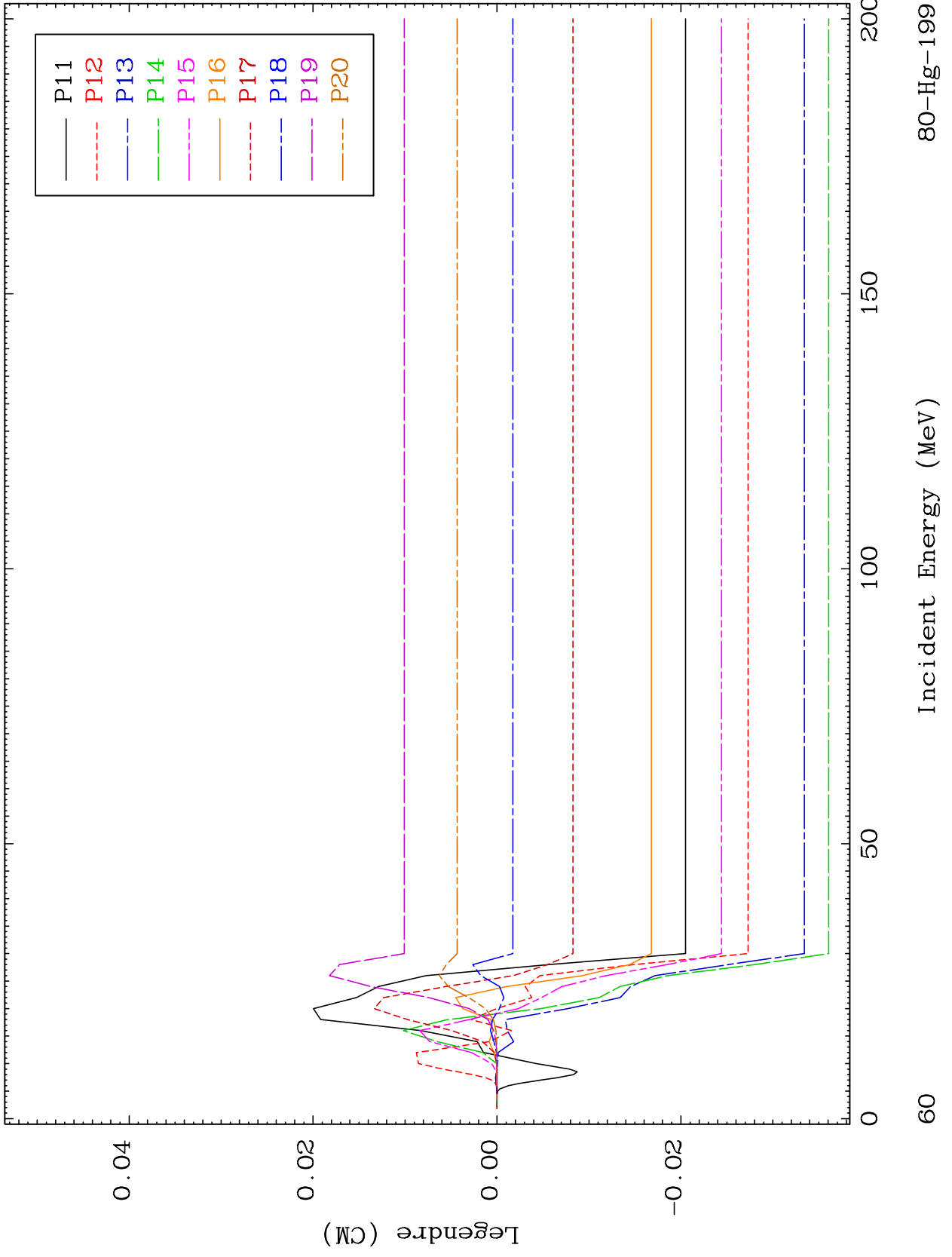
Incident Energy (MeV)

80-Hg-199

MAT 8034

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

80-Hg-199



80-Hg-199

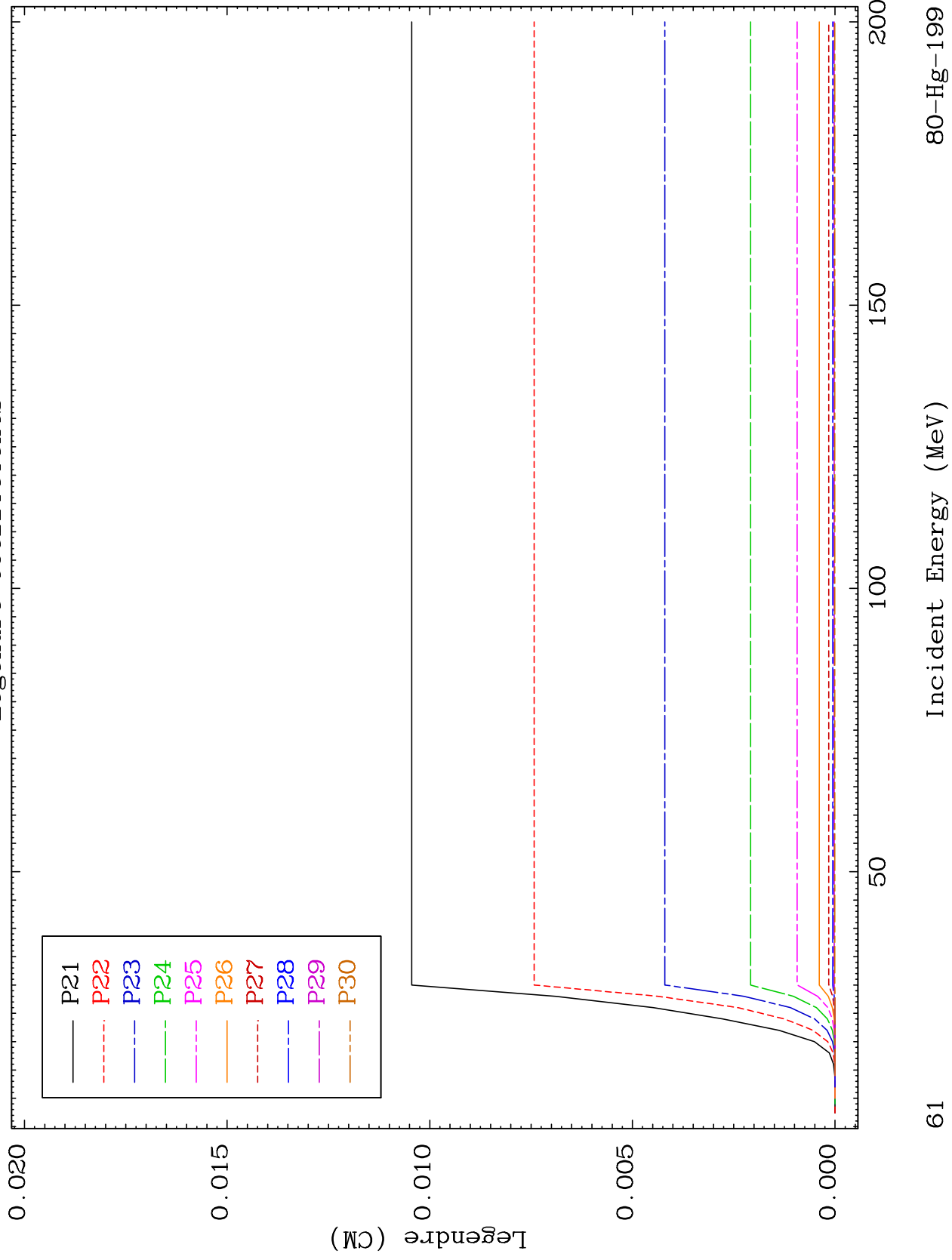
Incident Energy (MeV)

60

MAT 8034

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

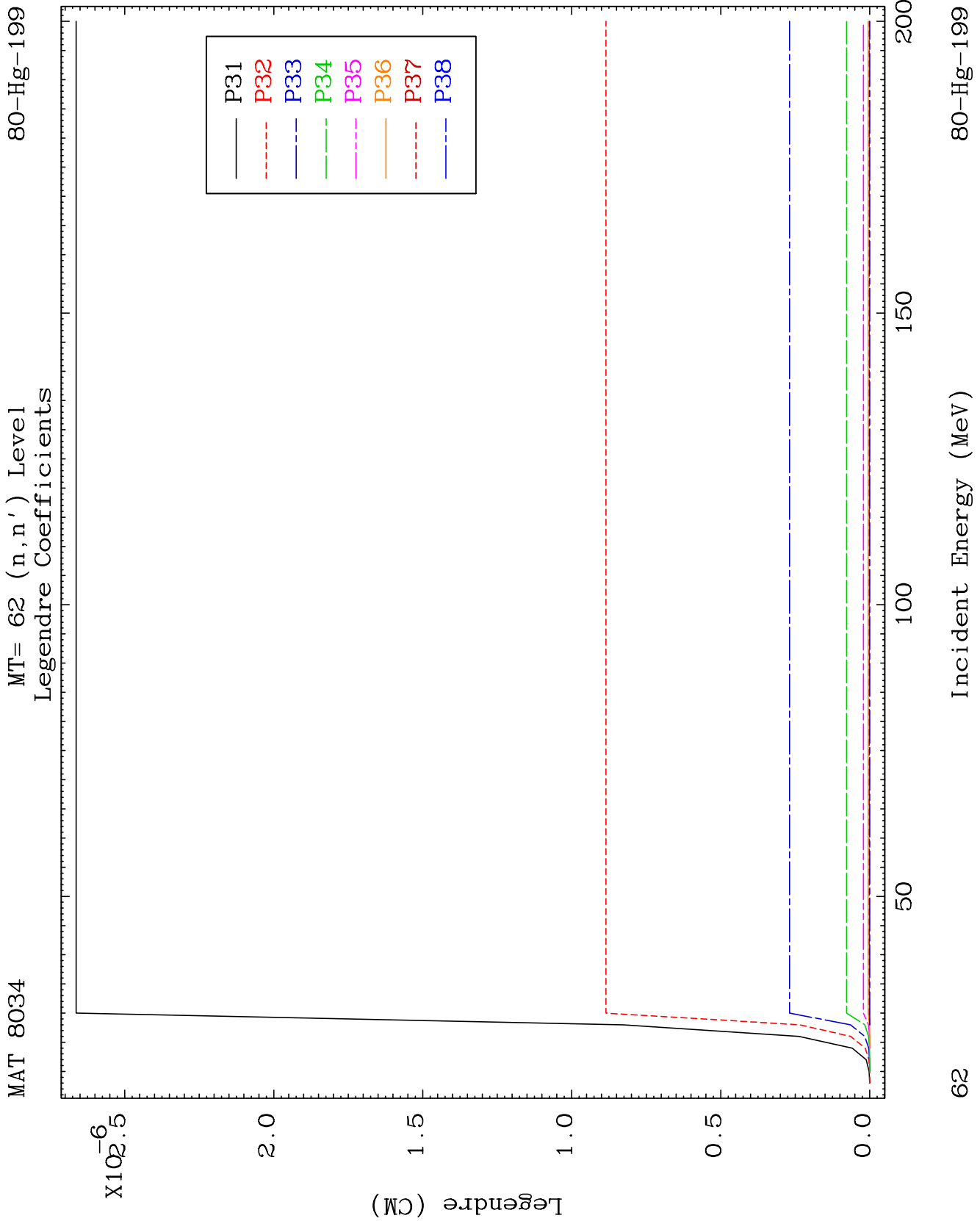
80-Hg-199

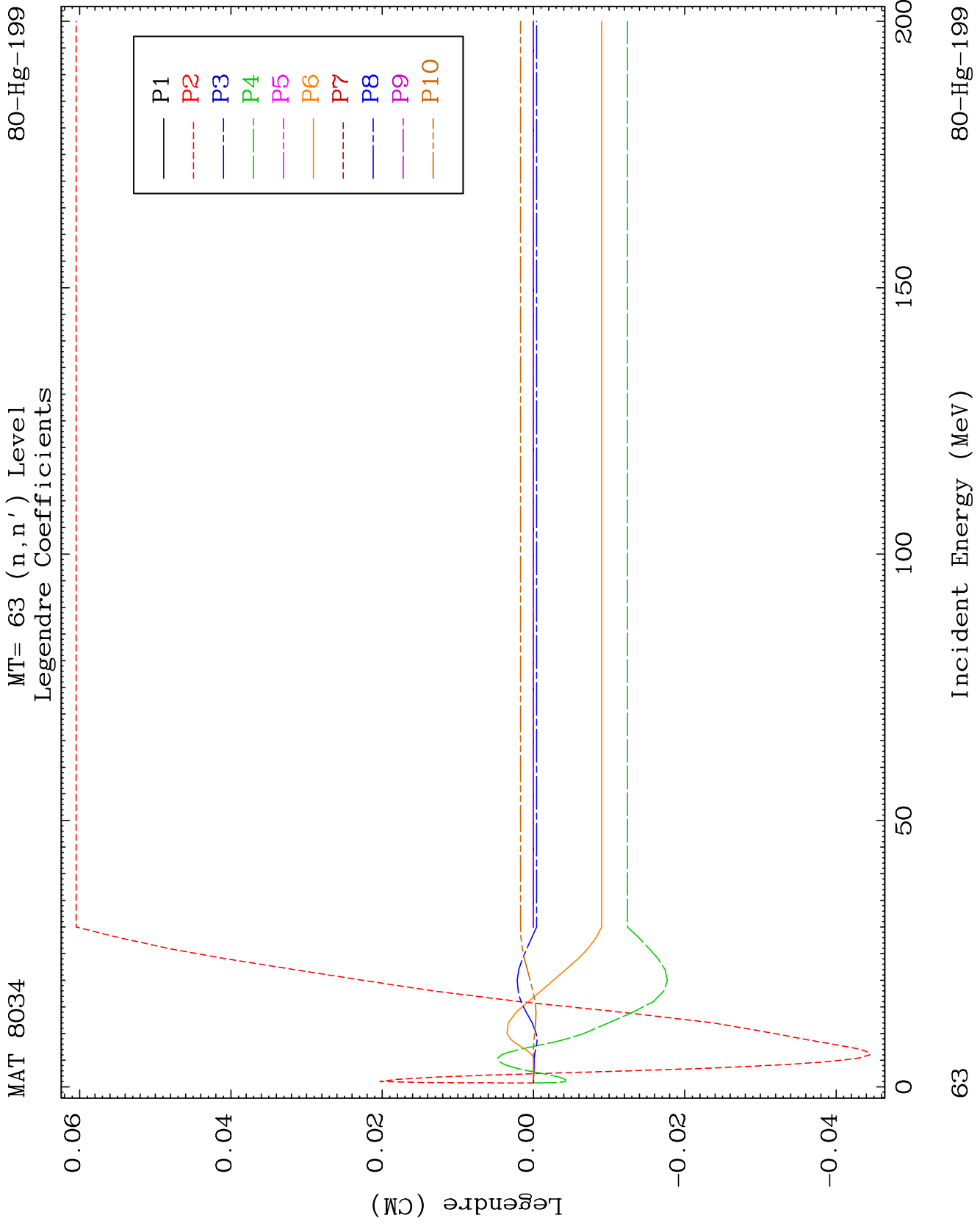


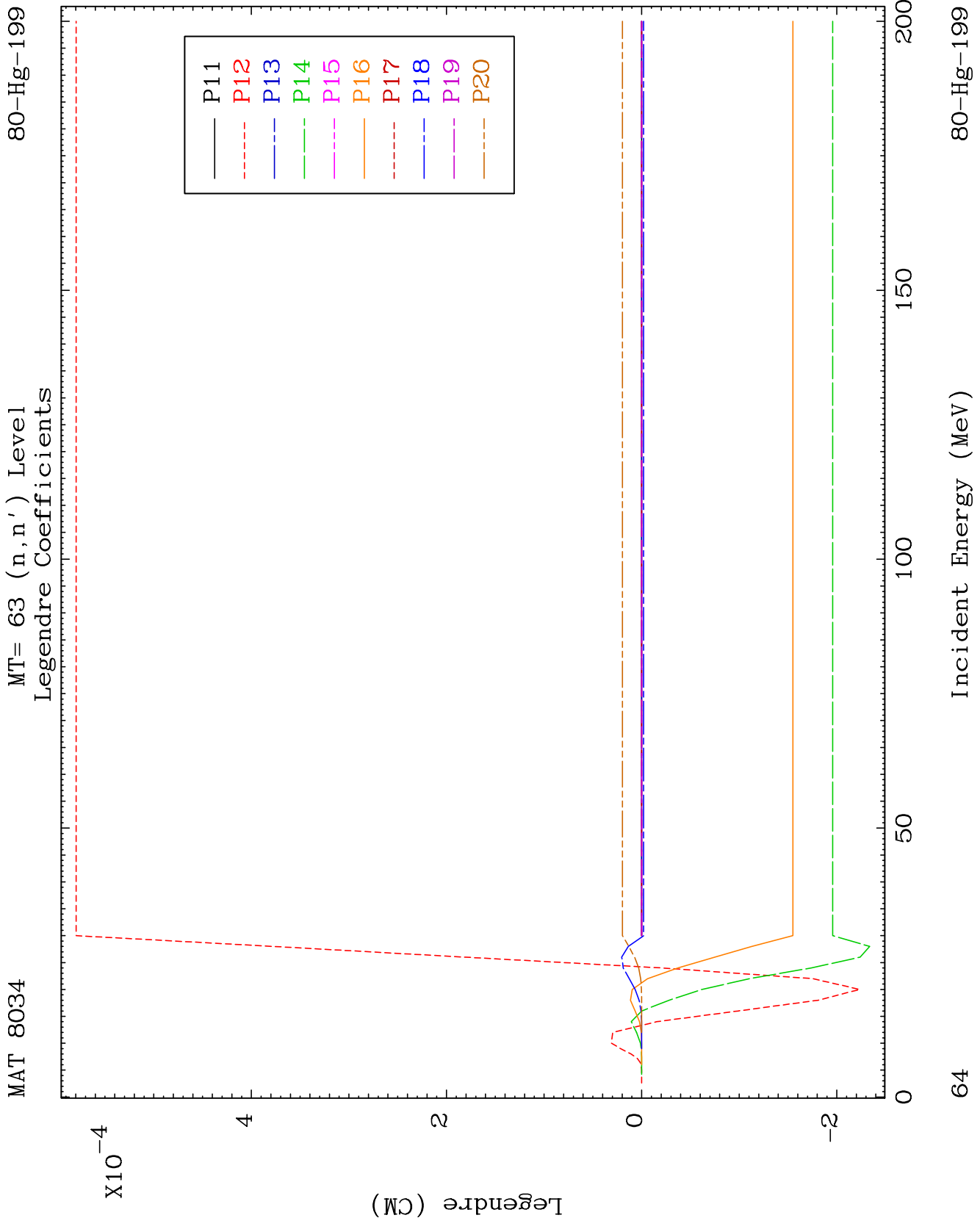
61

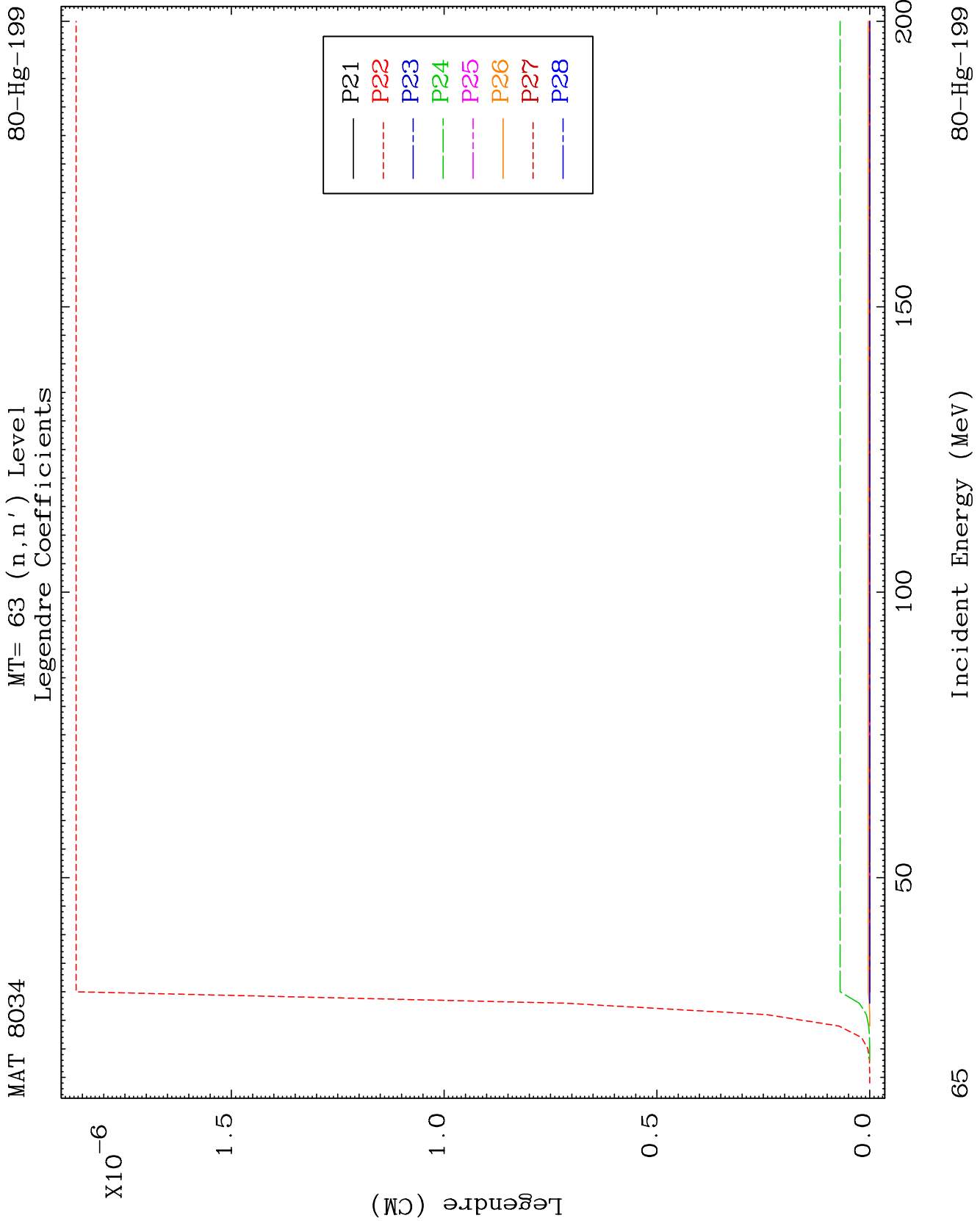
Incident Energy (MeV)

80-Hg-199





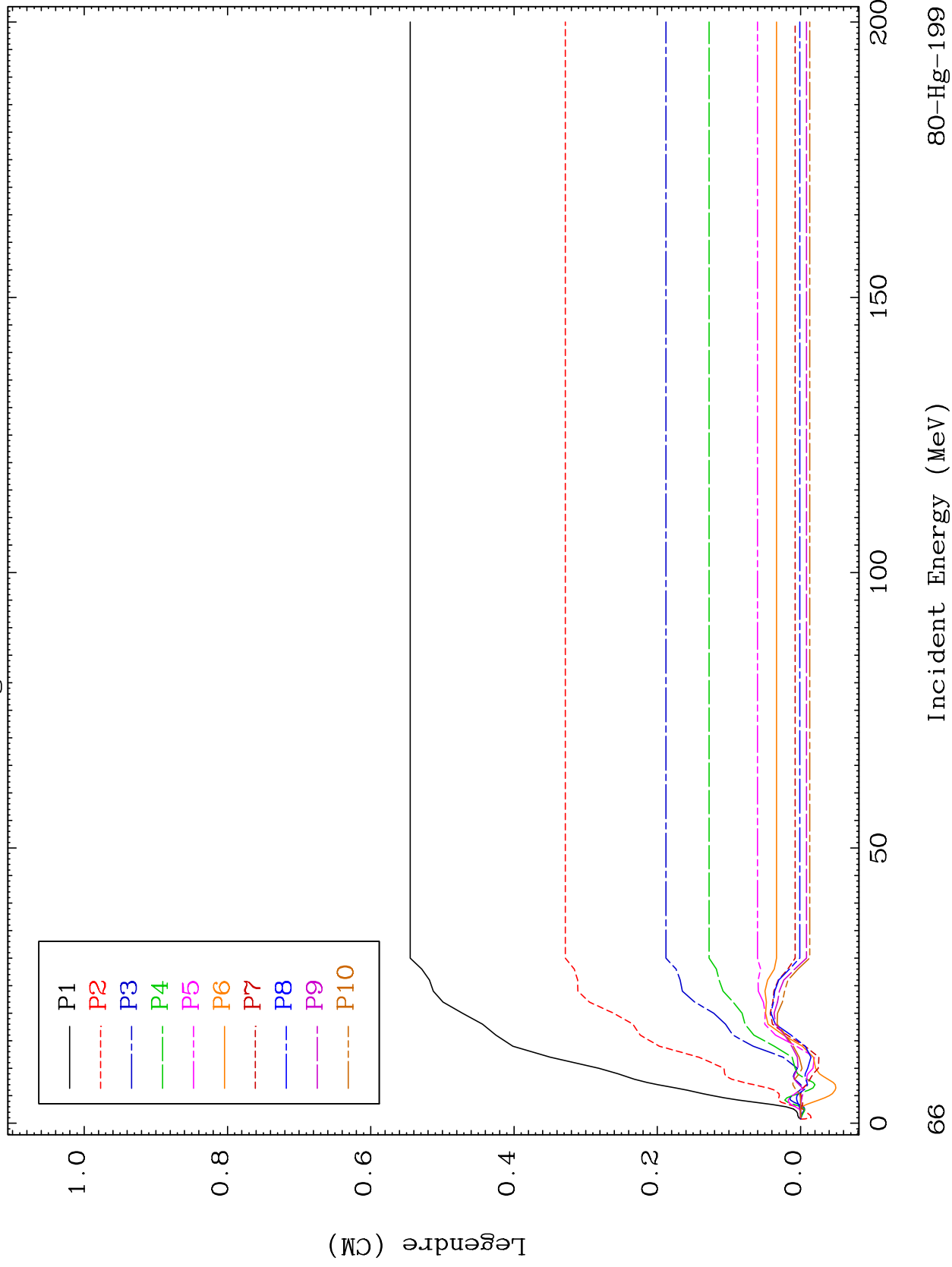




MAT 8034

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

80-Hg-199



66

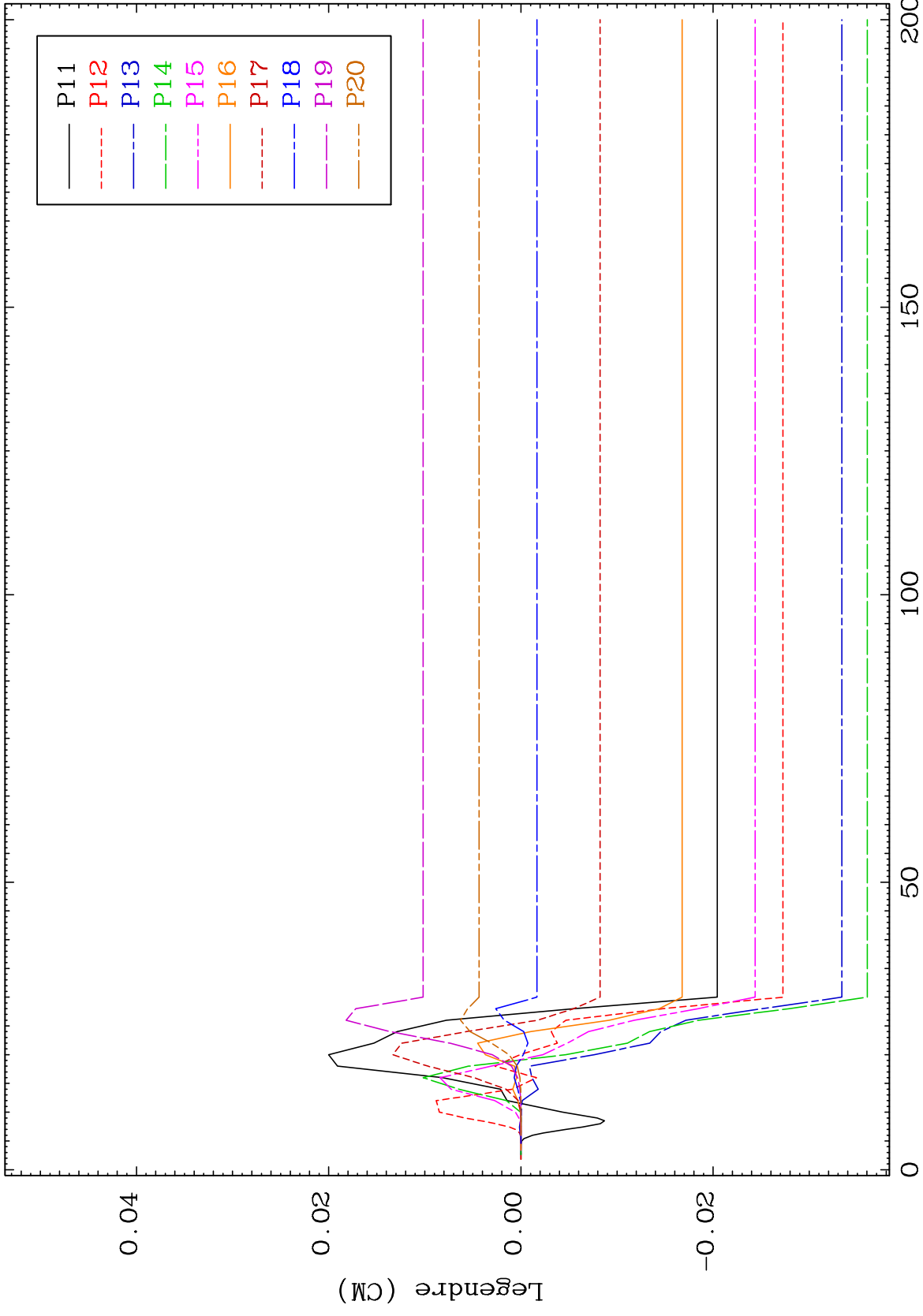
Incident Energy (MeV)

80-Hg-199

MAT 8034

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

80-Hg-199



67

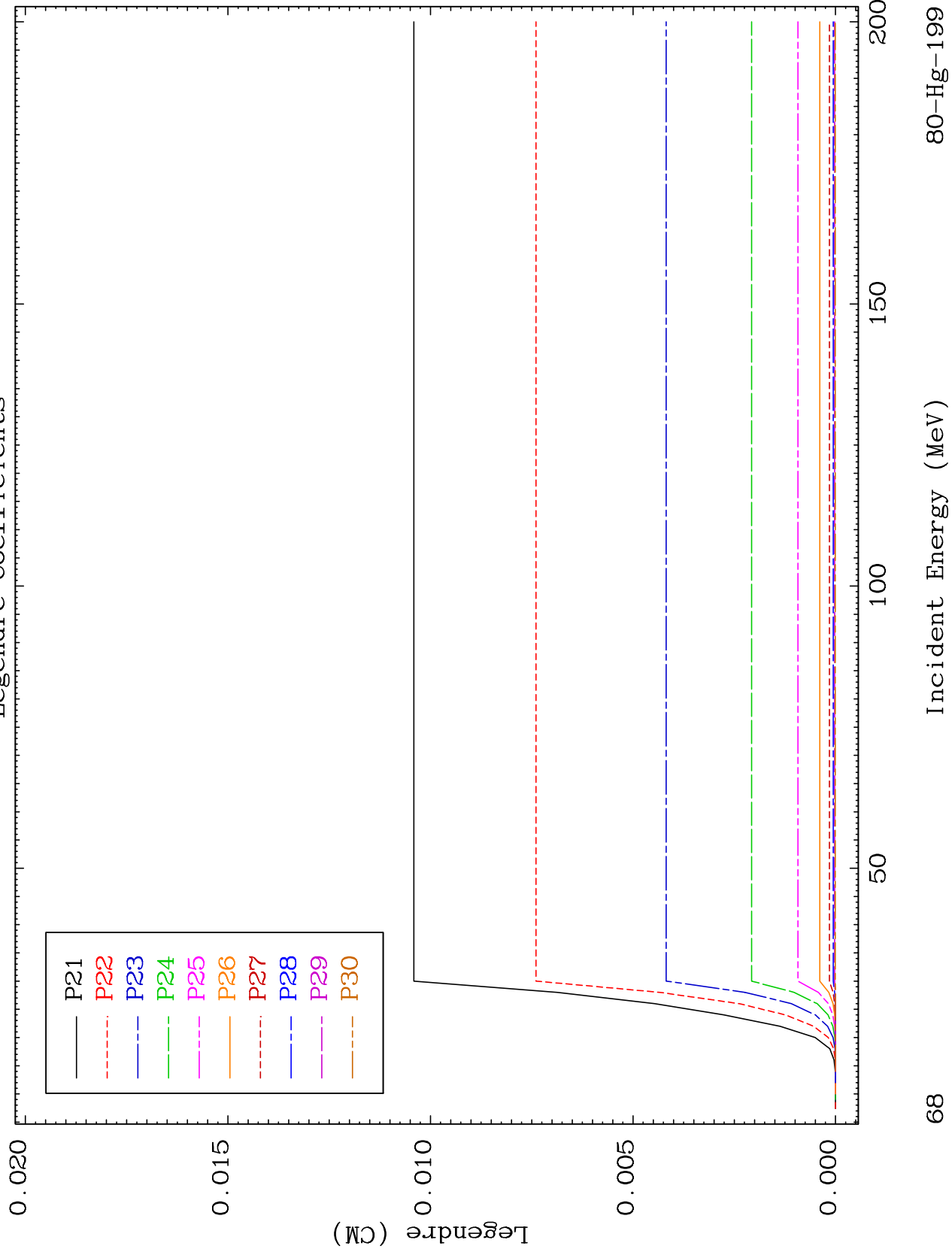
Incident Energy (MeV)

80-Hg-199

MAT 8034

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

80-Hg-199



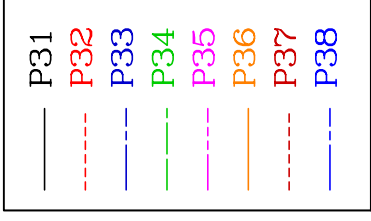
68

MAT 8034

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

80-Hg-199

$\times 10^{-6}$

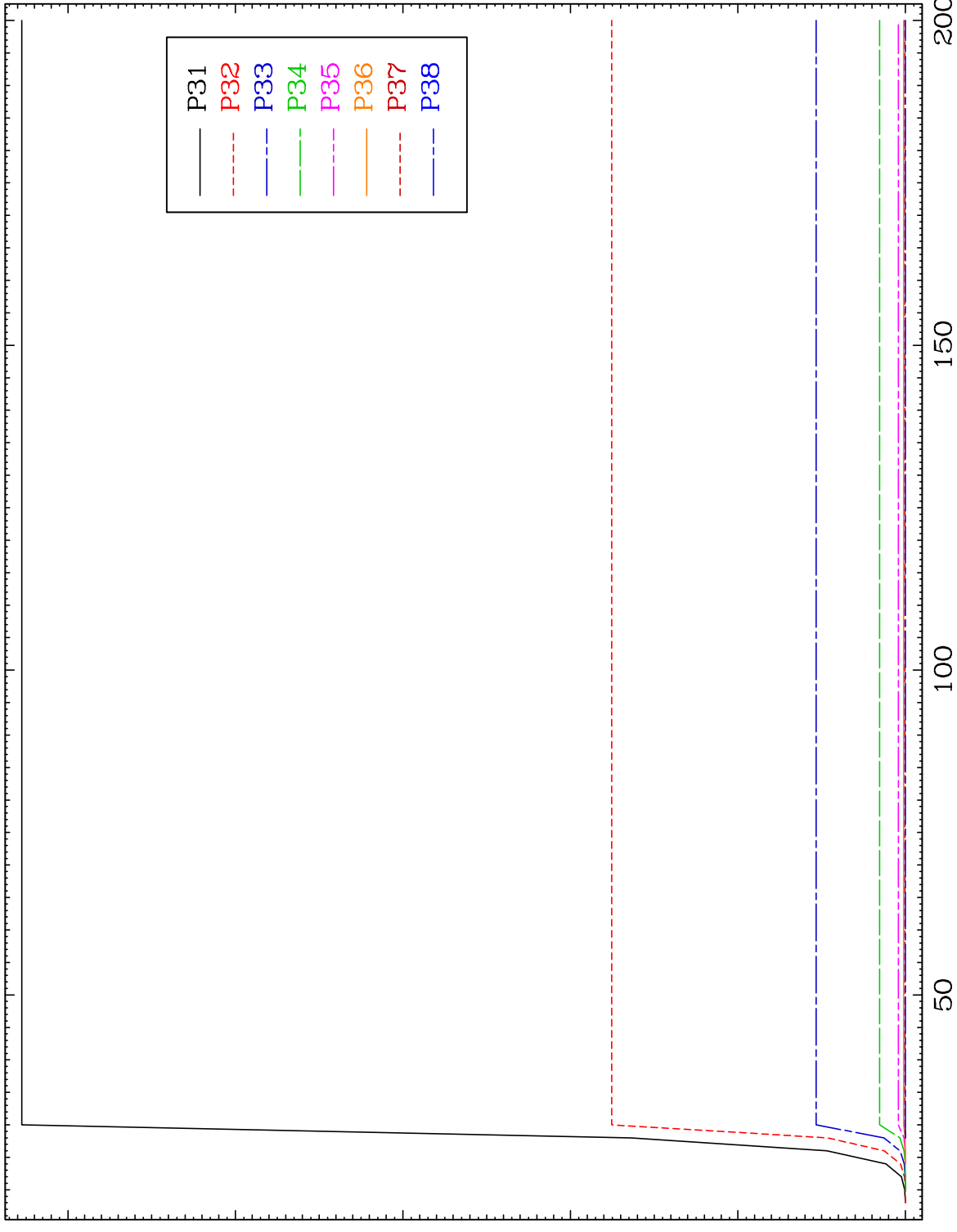


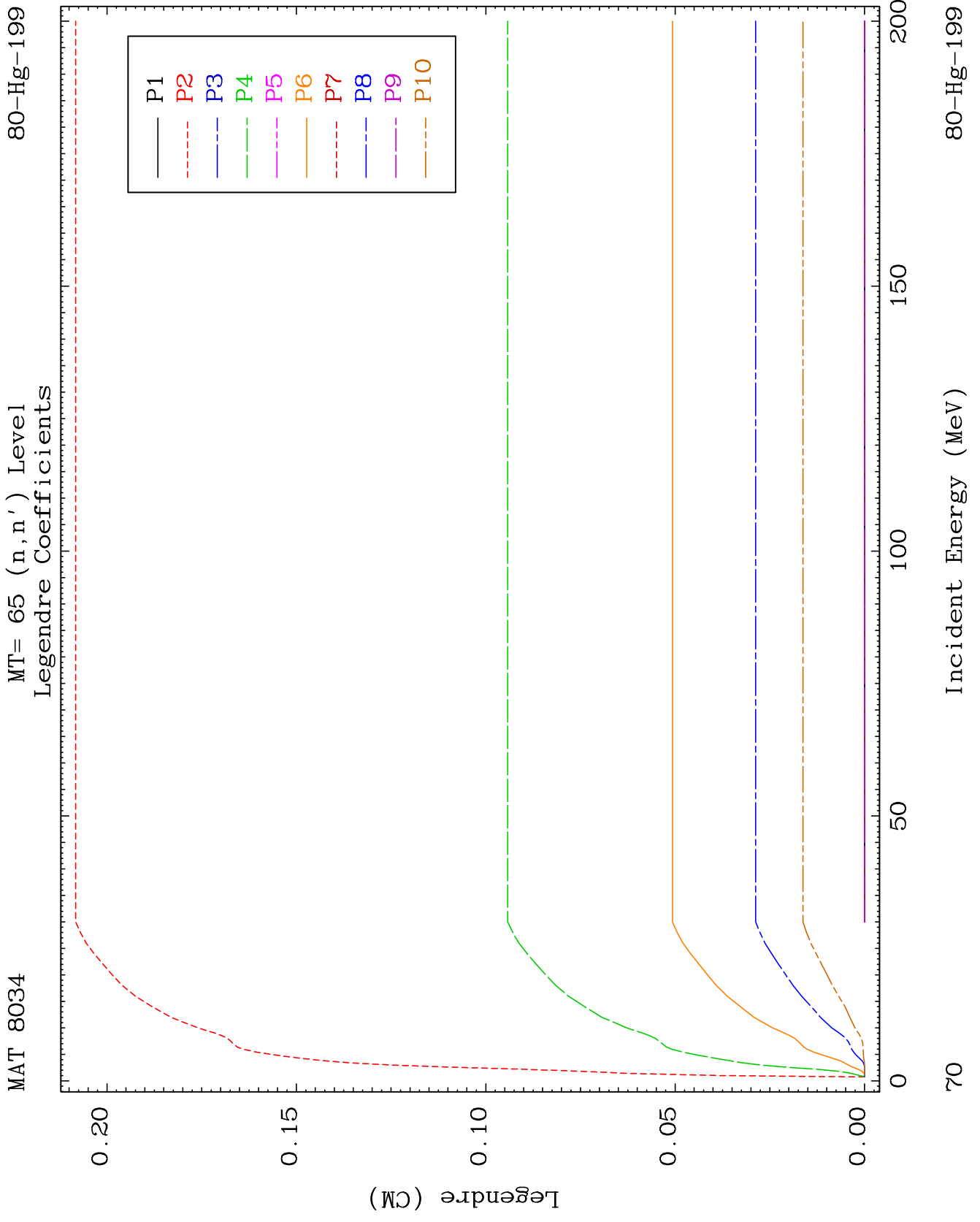
Legendre (CM)

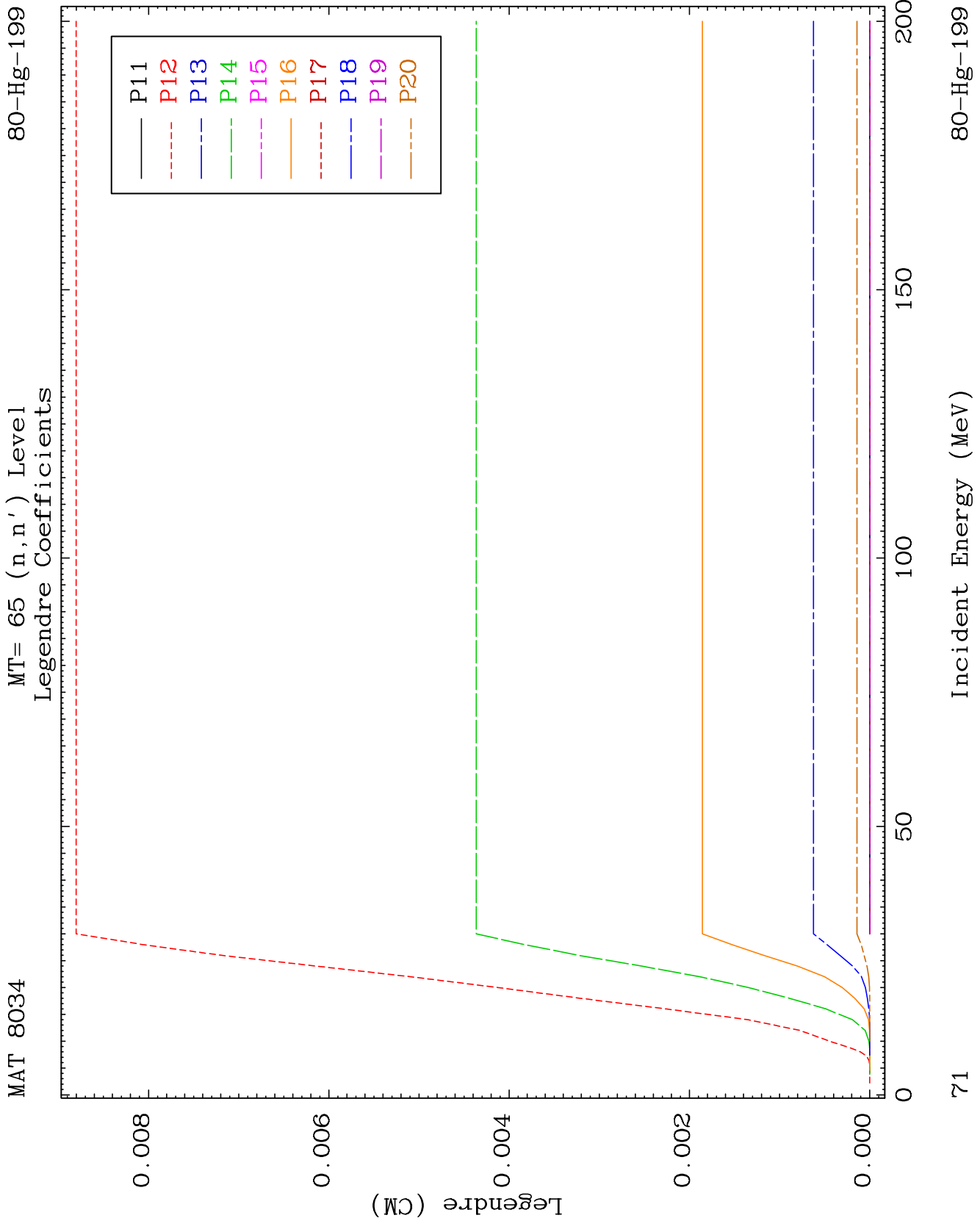
69

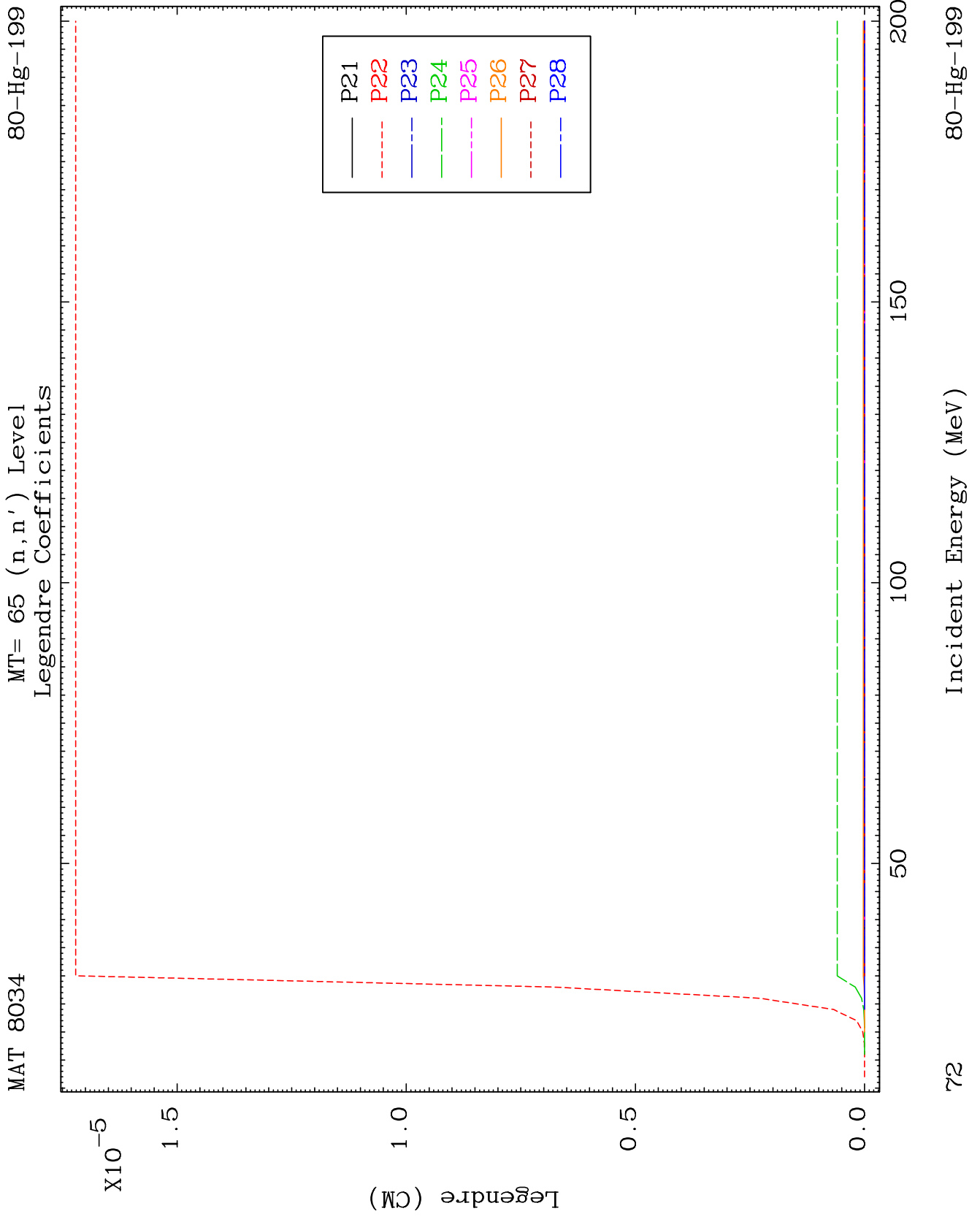
Incident Energy (MeV)

80-Hg-199







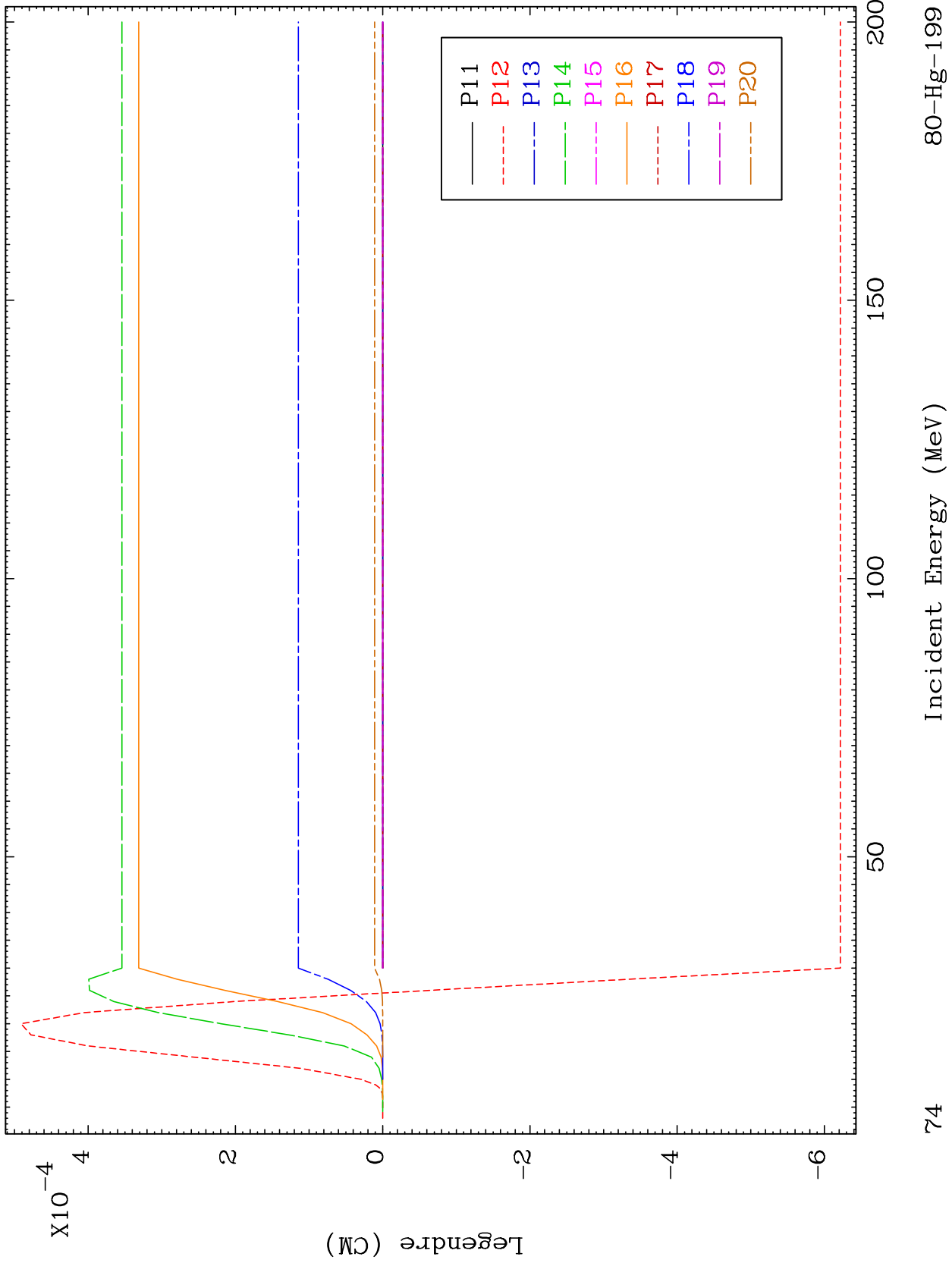


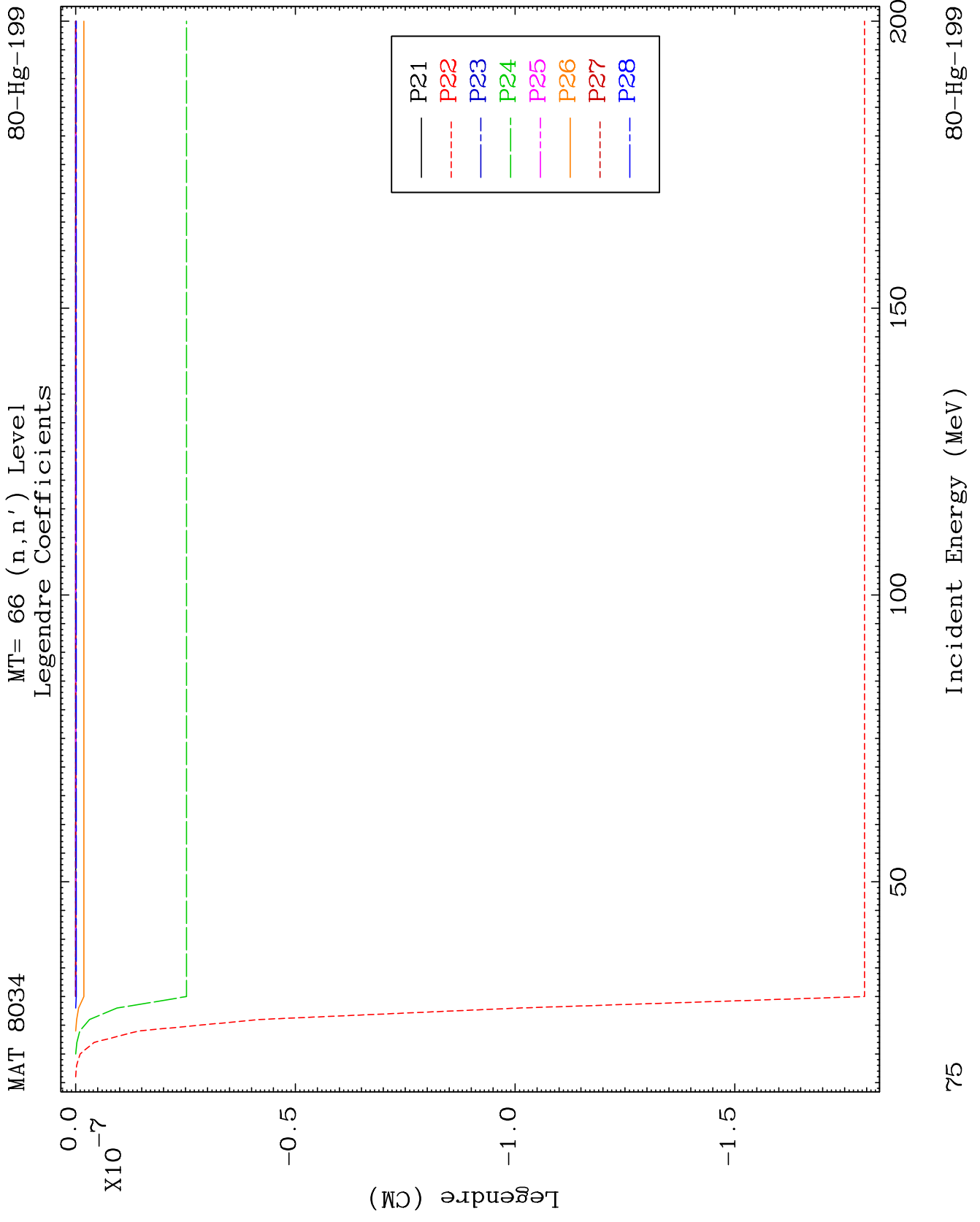


MAT 8034

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

80-Hg-199



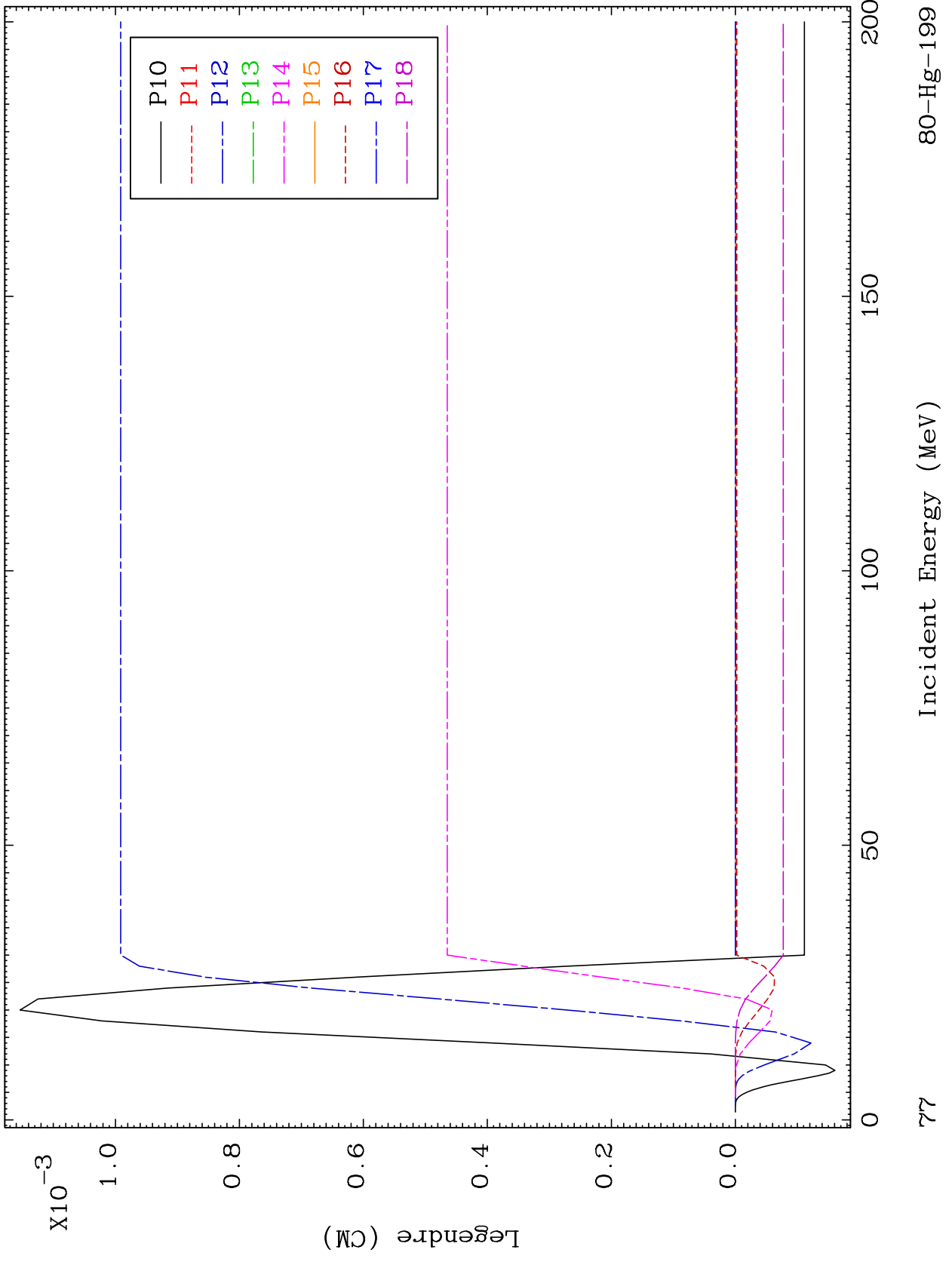




MAT 8034

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

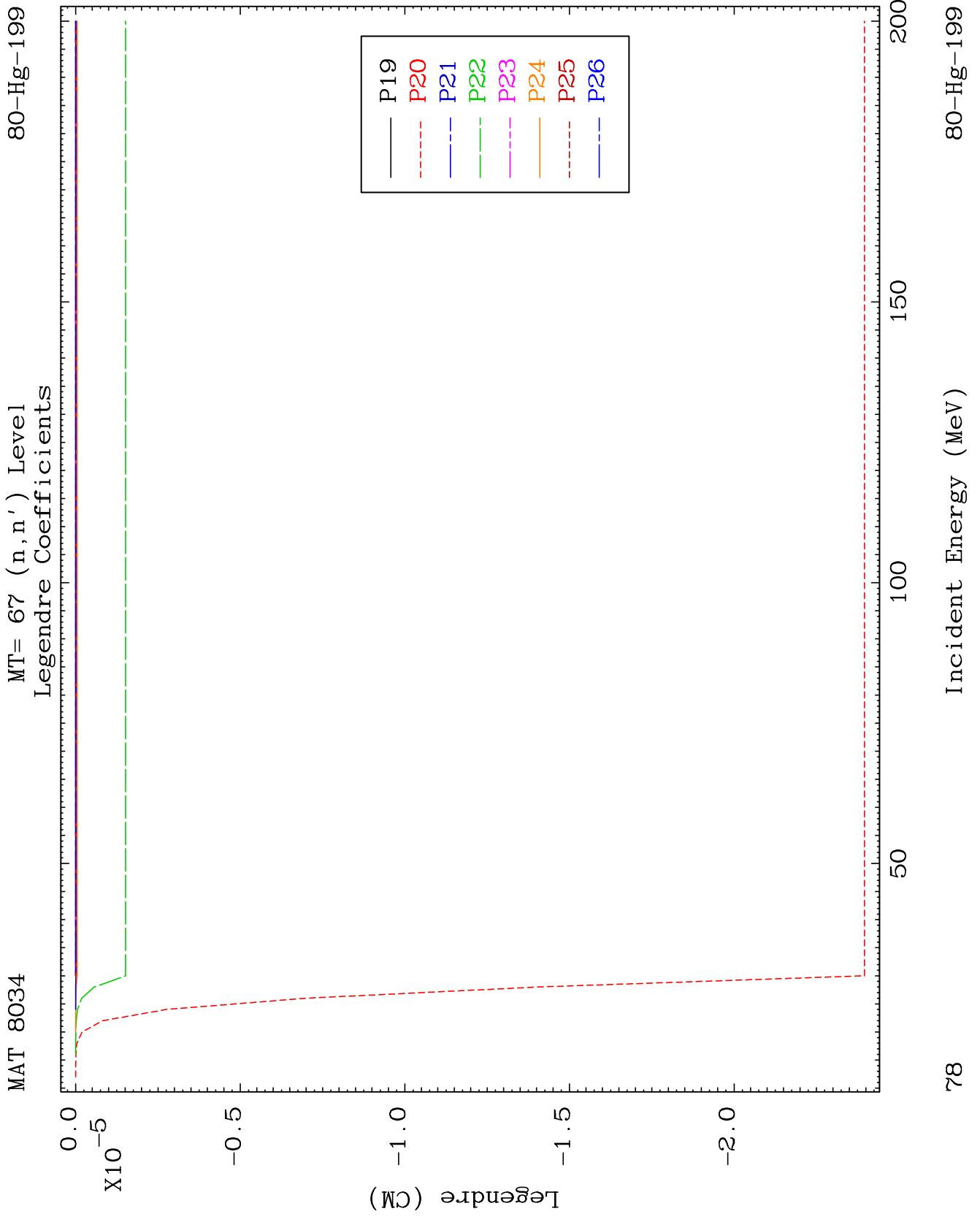
80-Hg-199



77

Incident Energy (MeV)

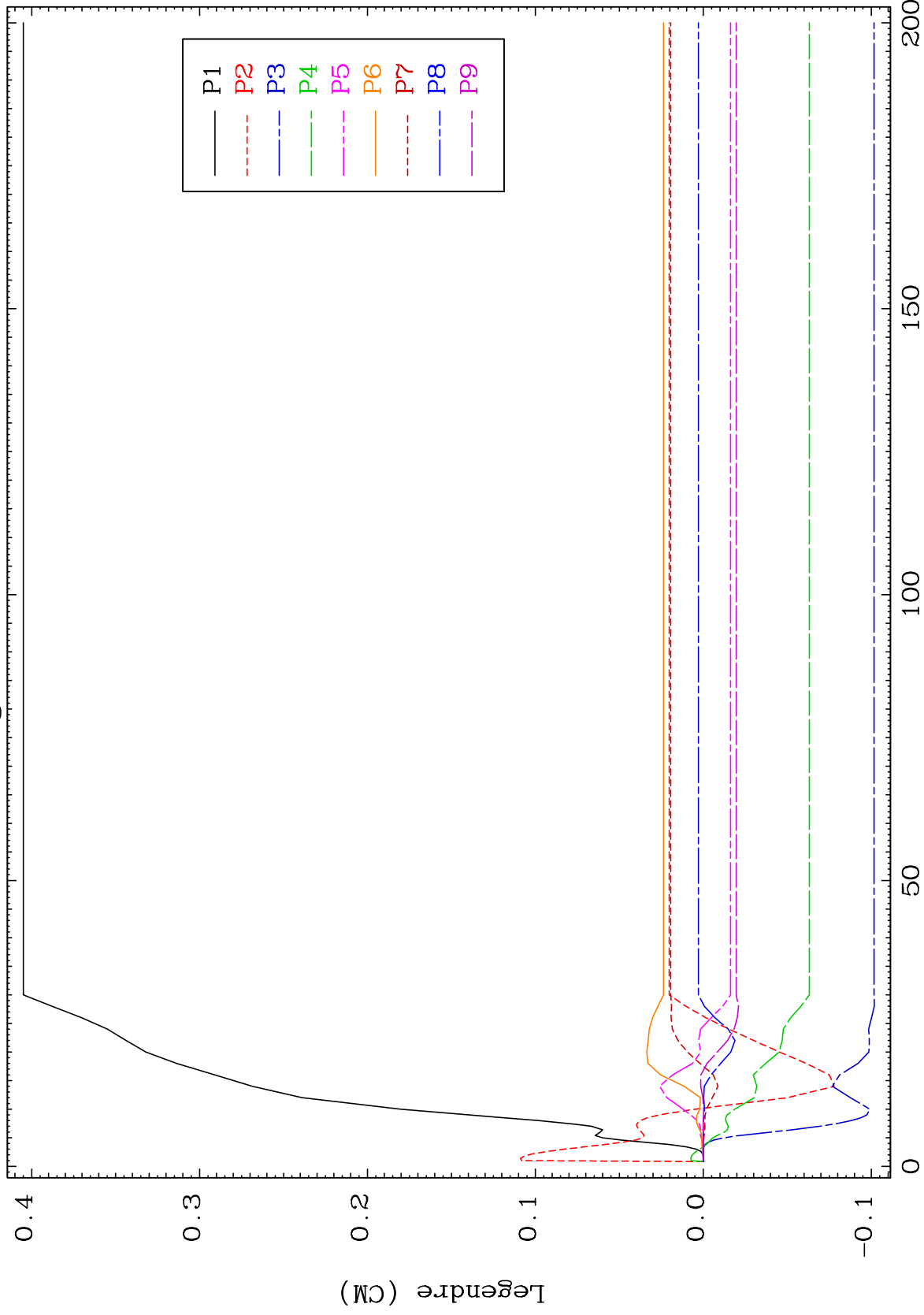
80-Hg-199



MAT 8034

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

80-Hg-199



79

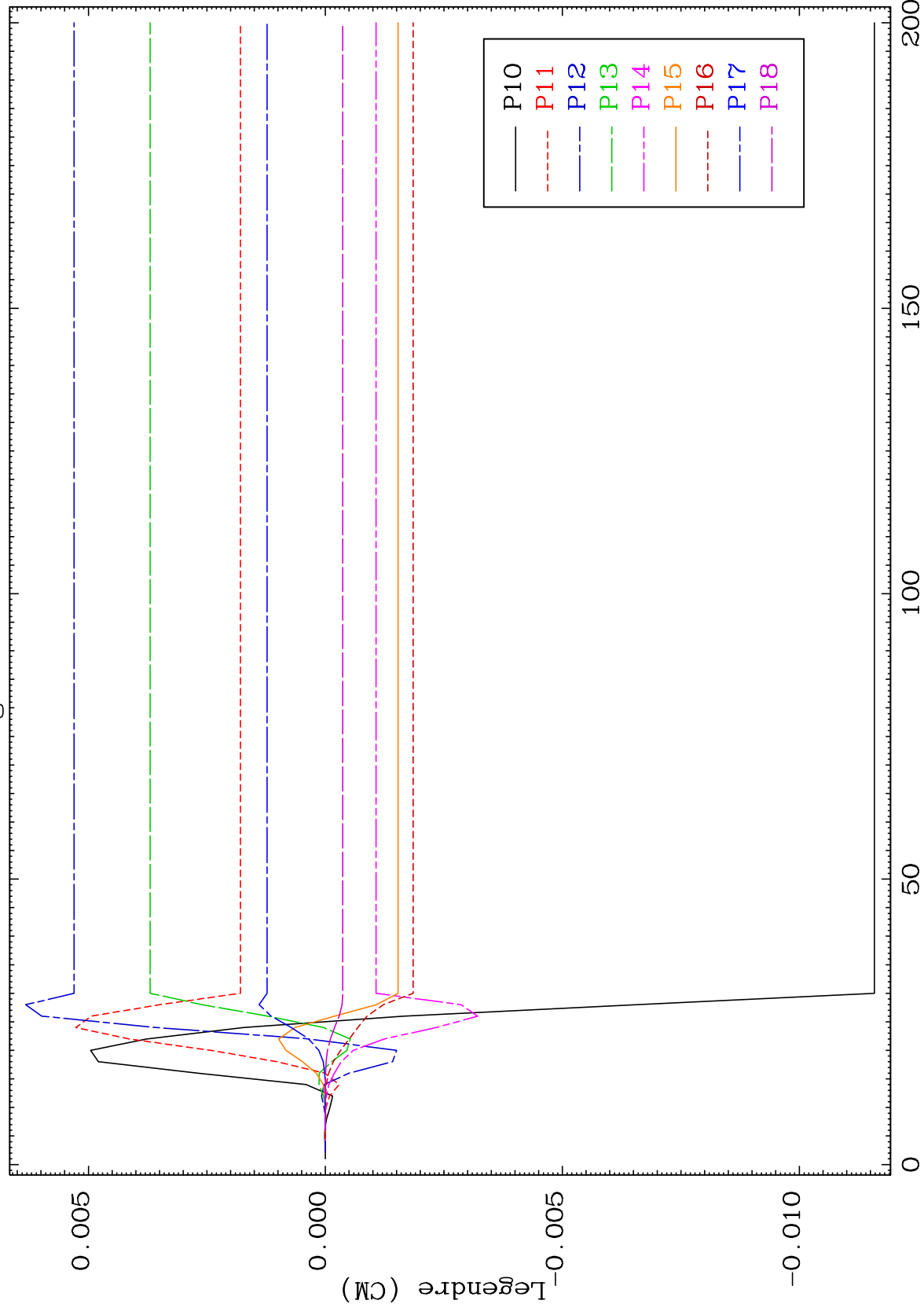
Incident Energy (MeV)

80-Hg-199

MAT 8034

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

80-Hg-199



80

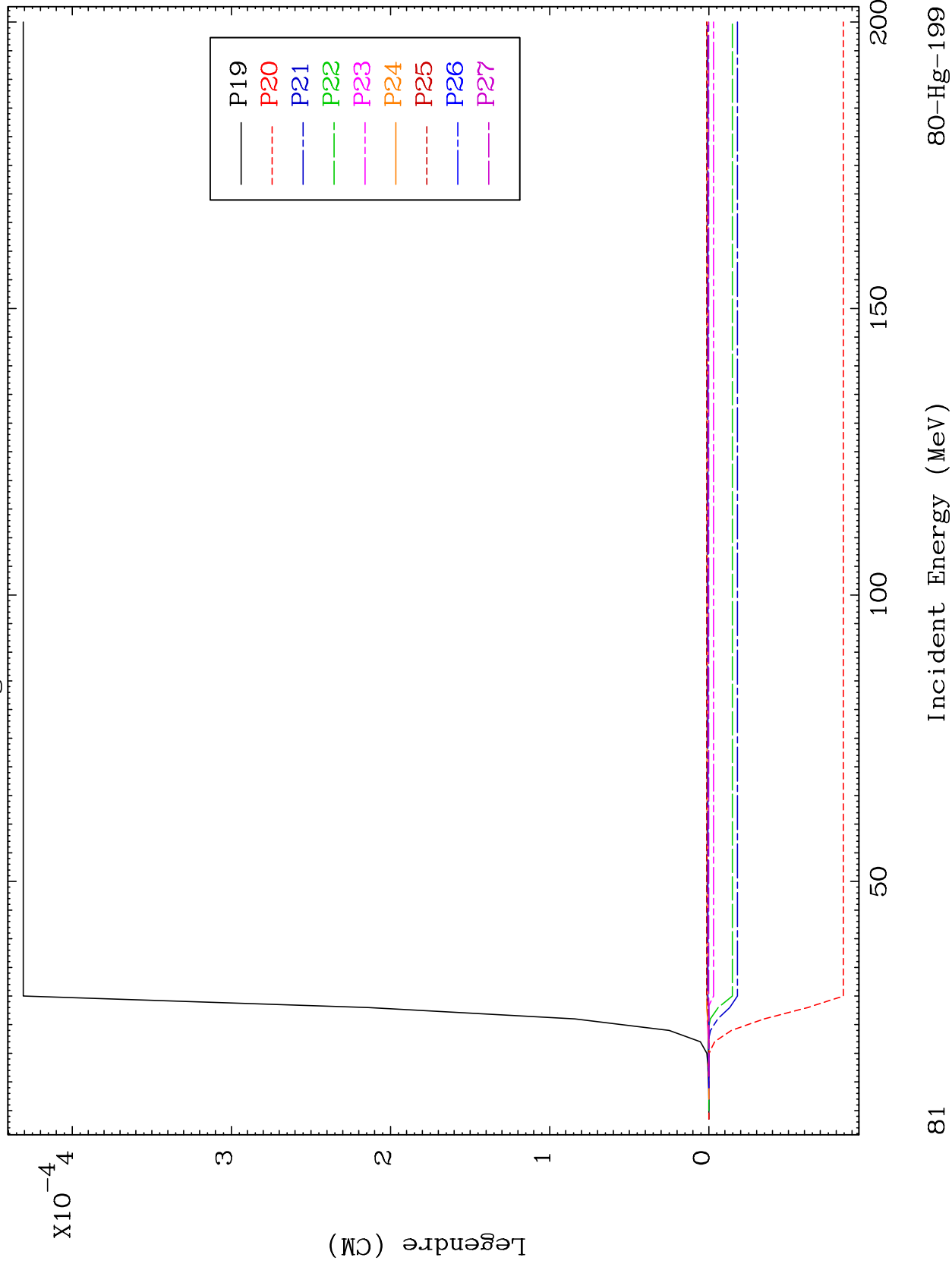
Incident Energy (MeV)

80-Hg-199

MAT 8034

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

80-Hg-199



81

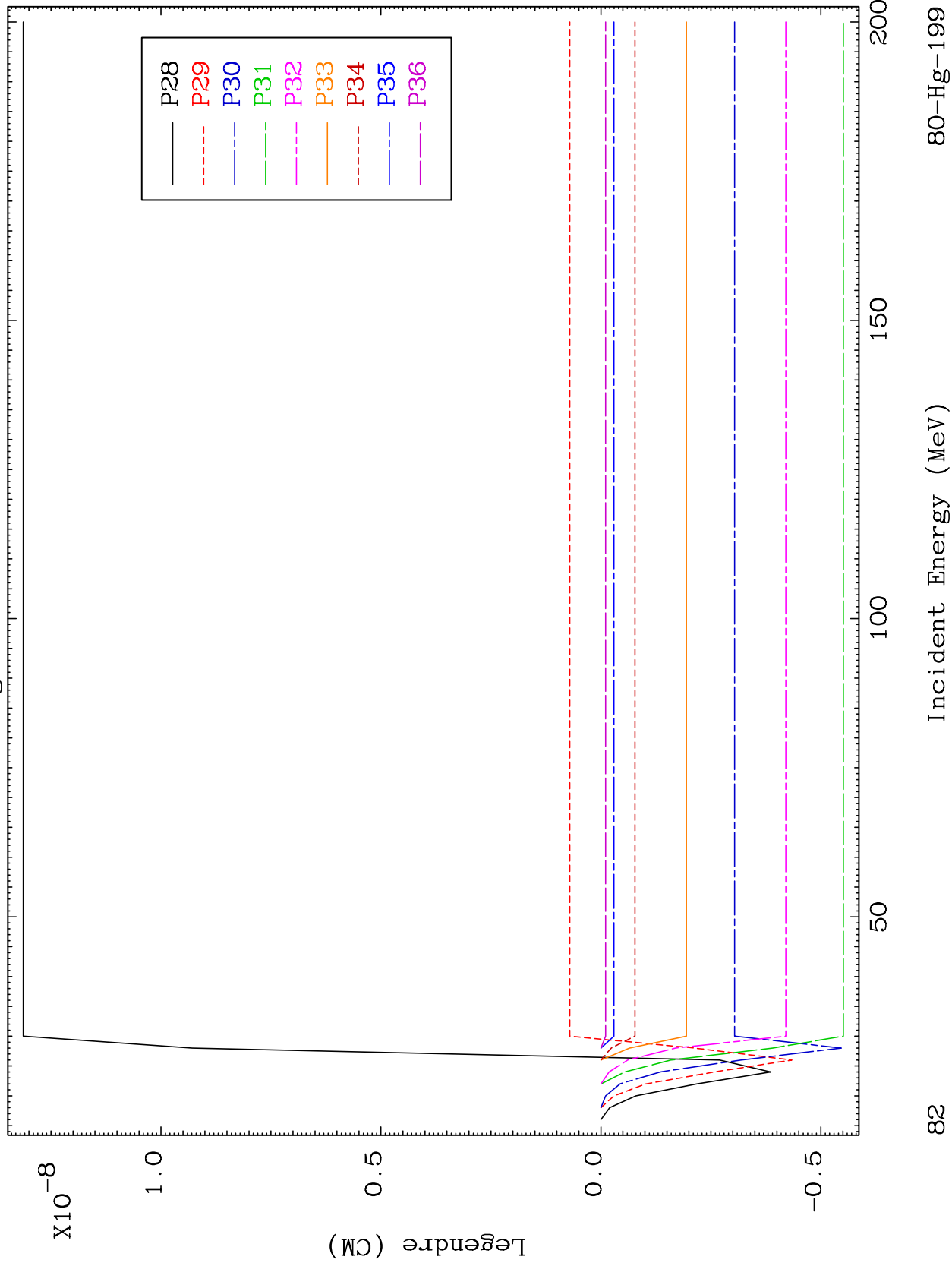
Incident Energy (MeV)

80-Hg-199

MAT 8034

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

80-Hg-199



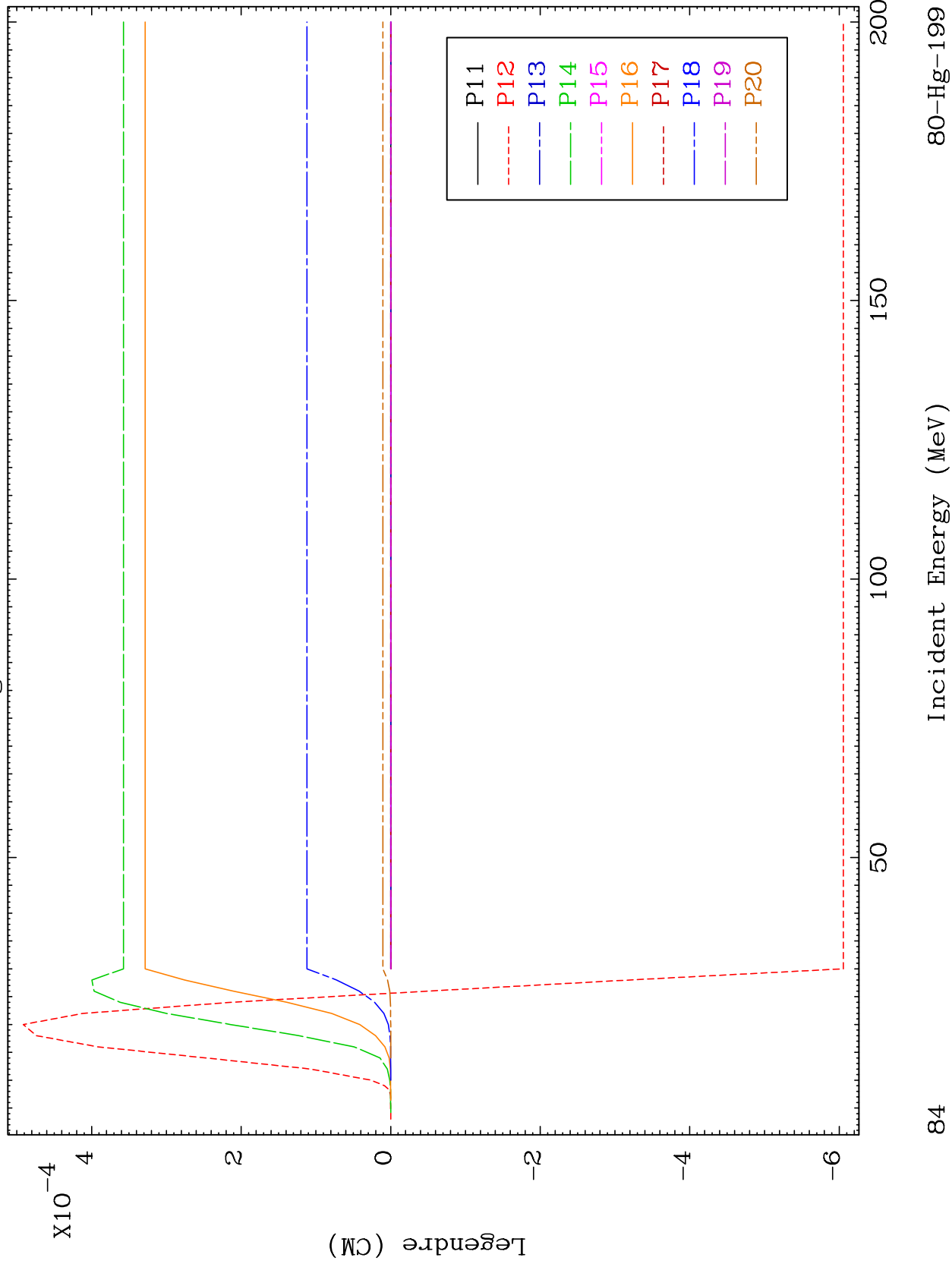
82



MAT 8034

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

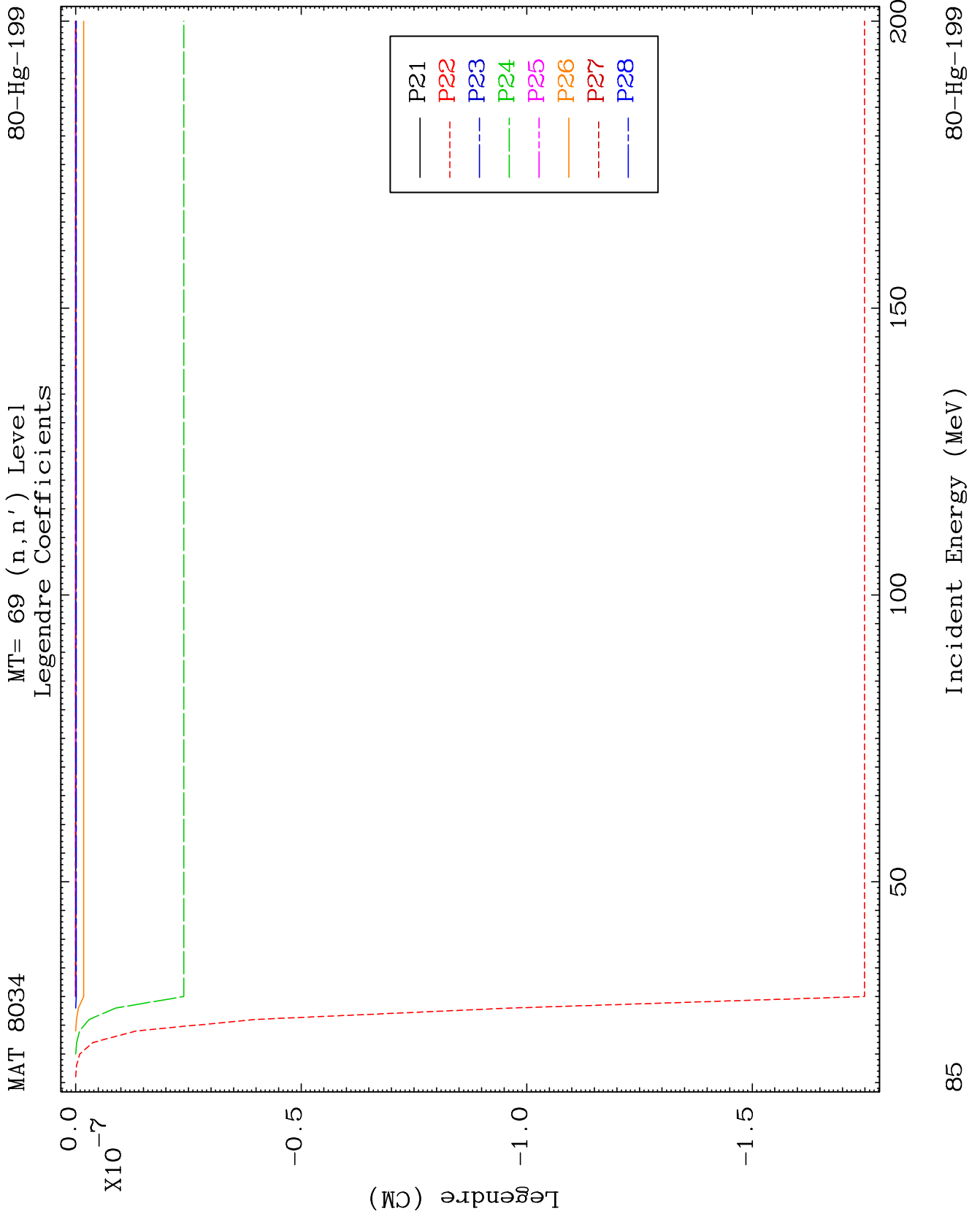
80-Hg-199

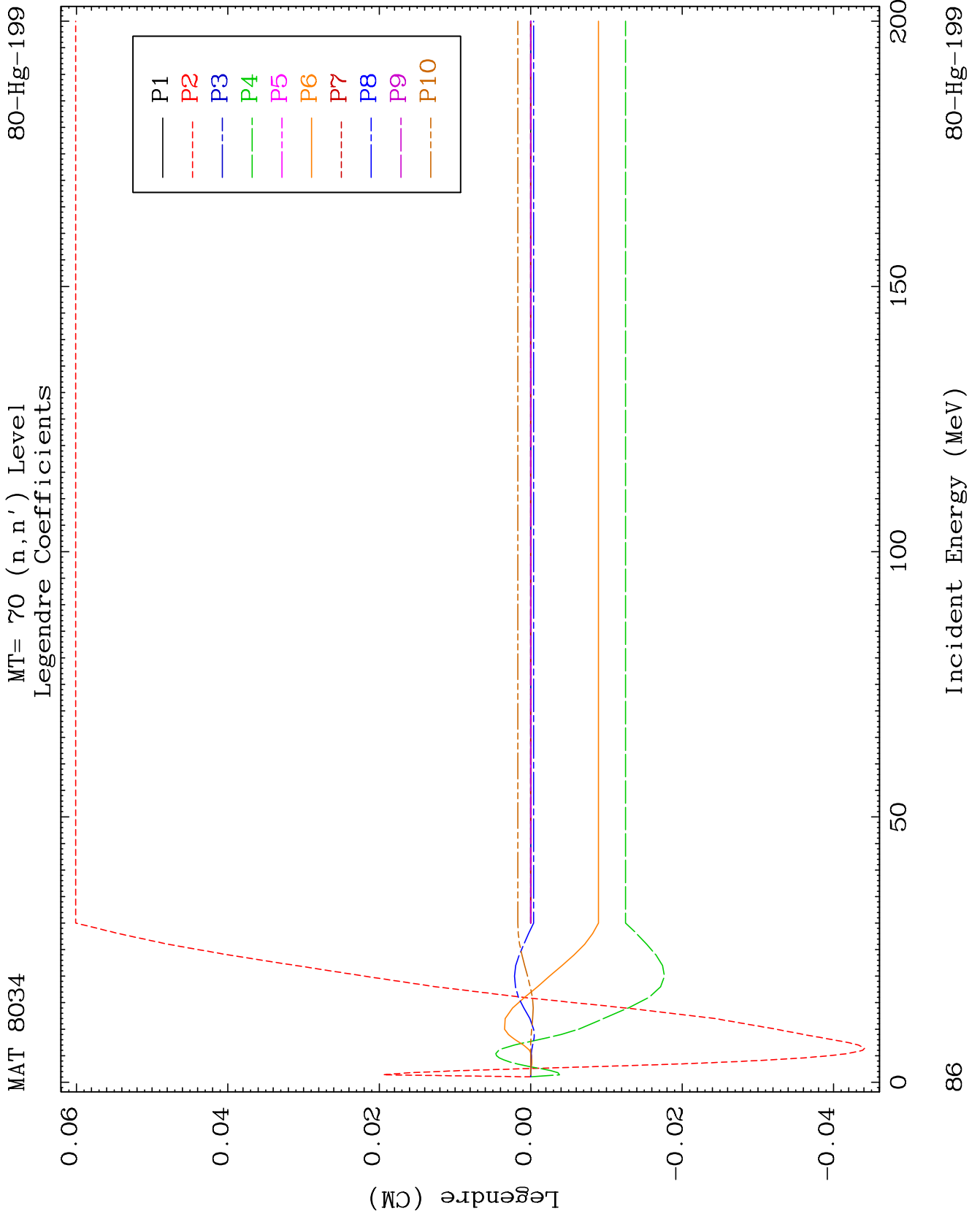


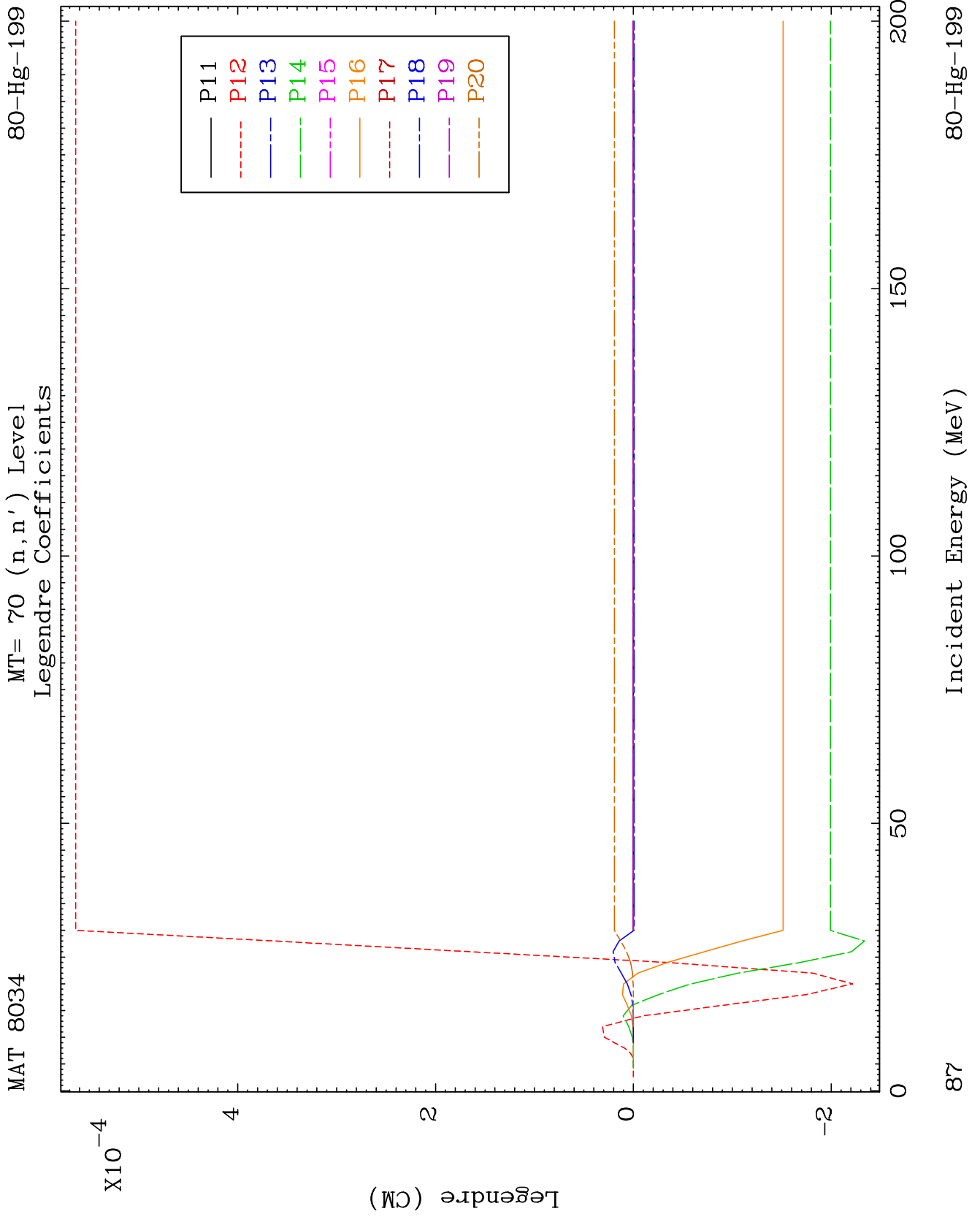
84

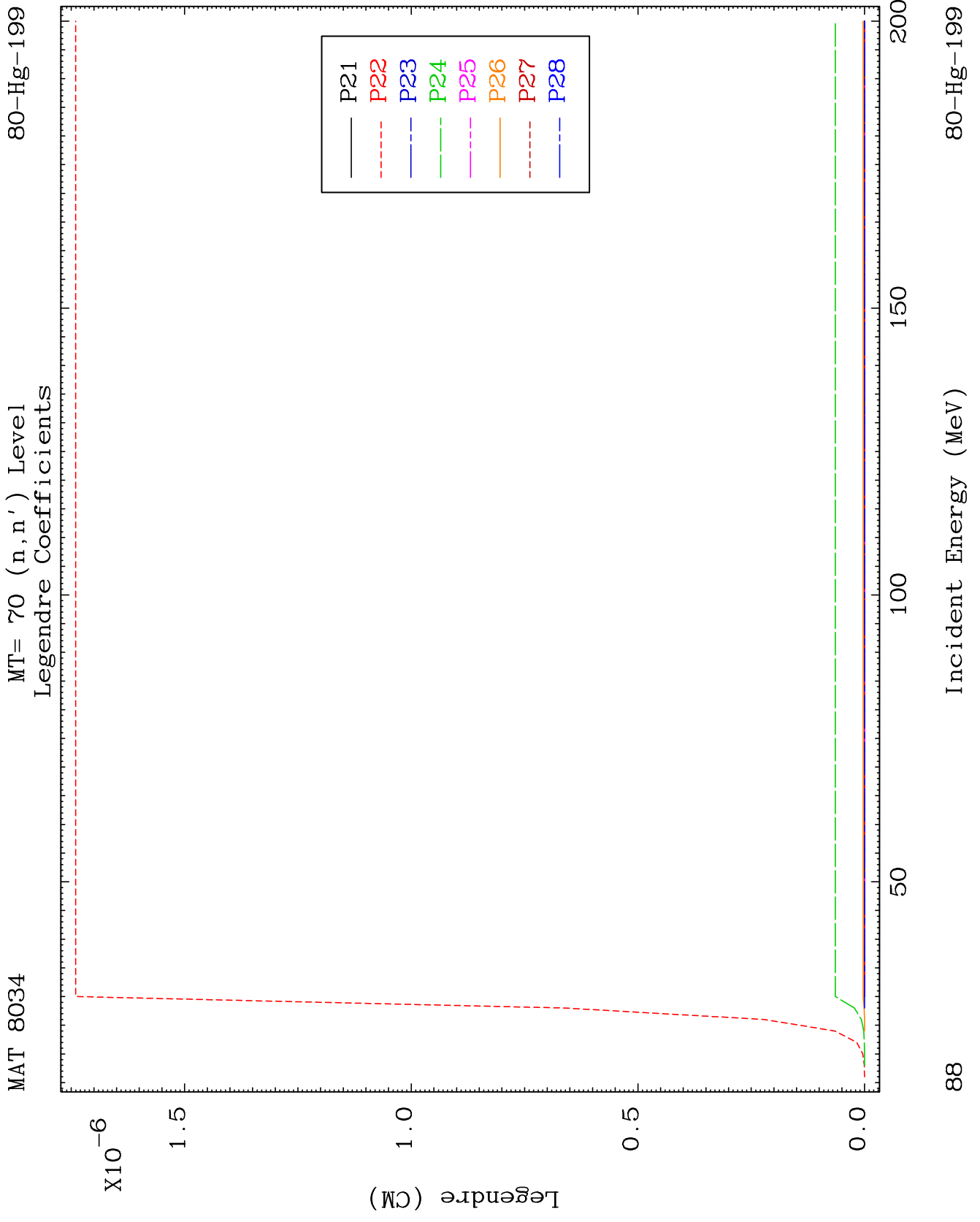
Incident Energy (MeV)

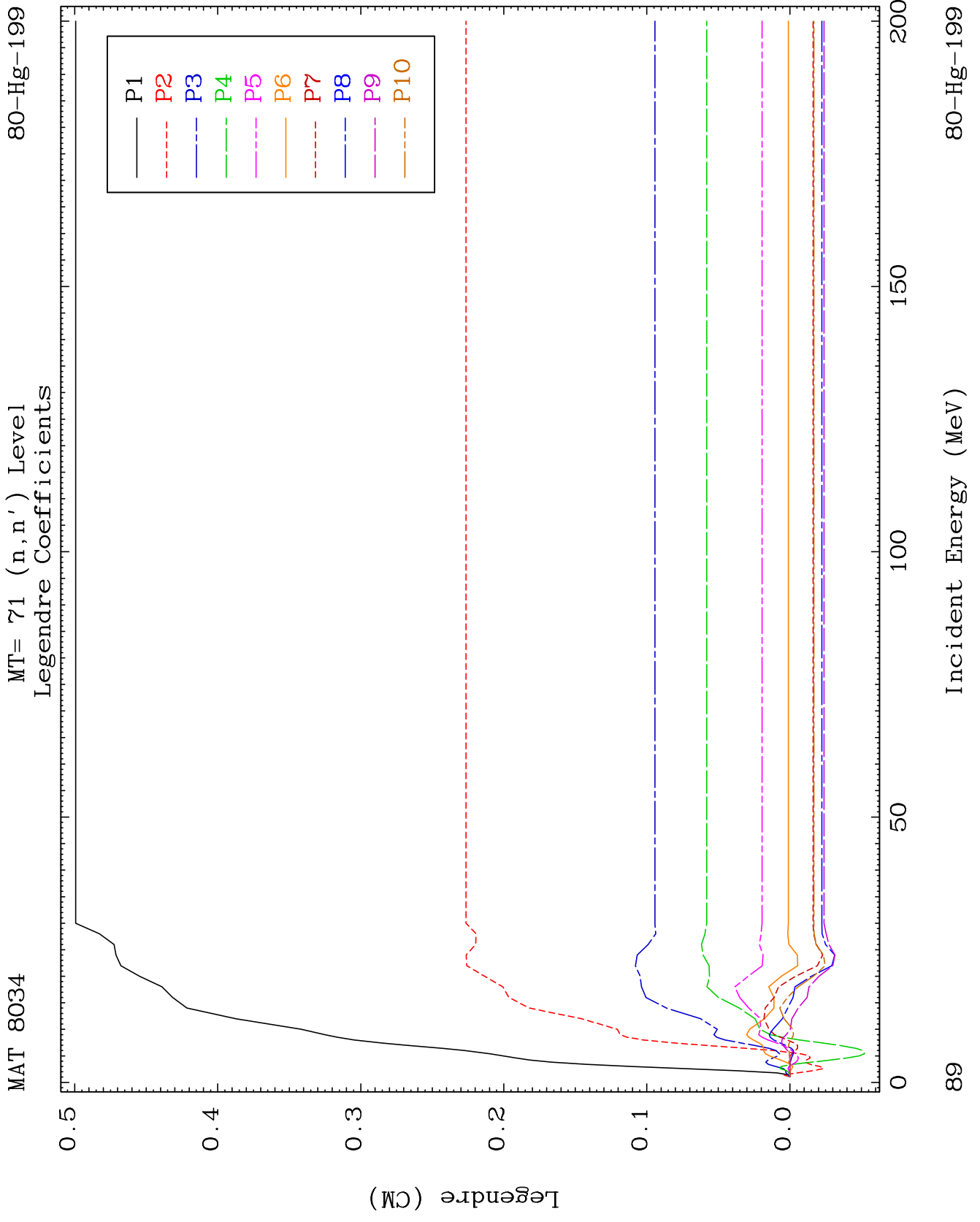
80-Hg-199



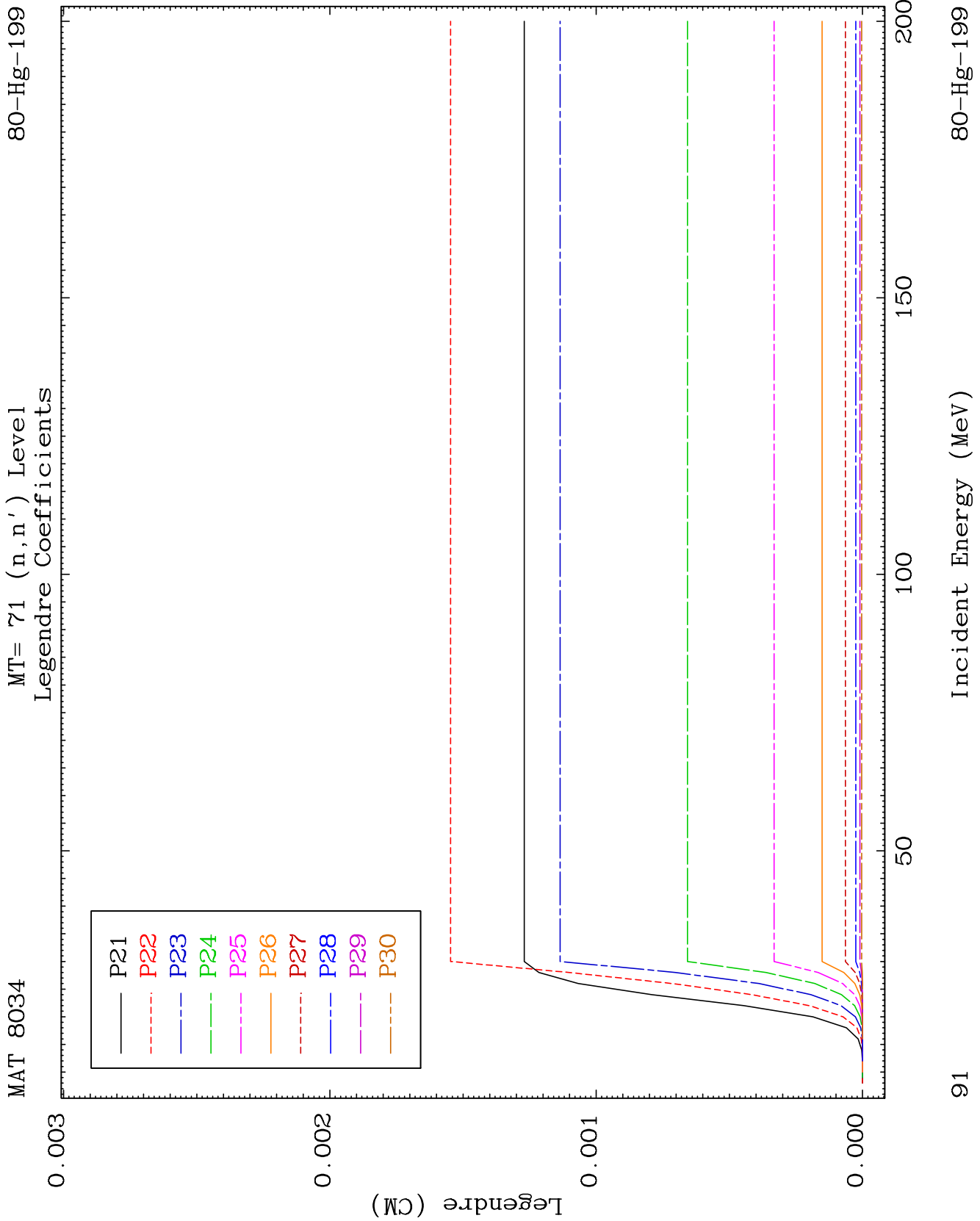








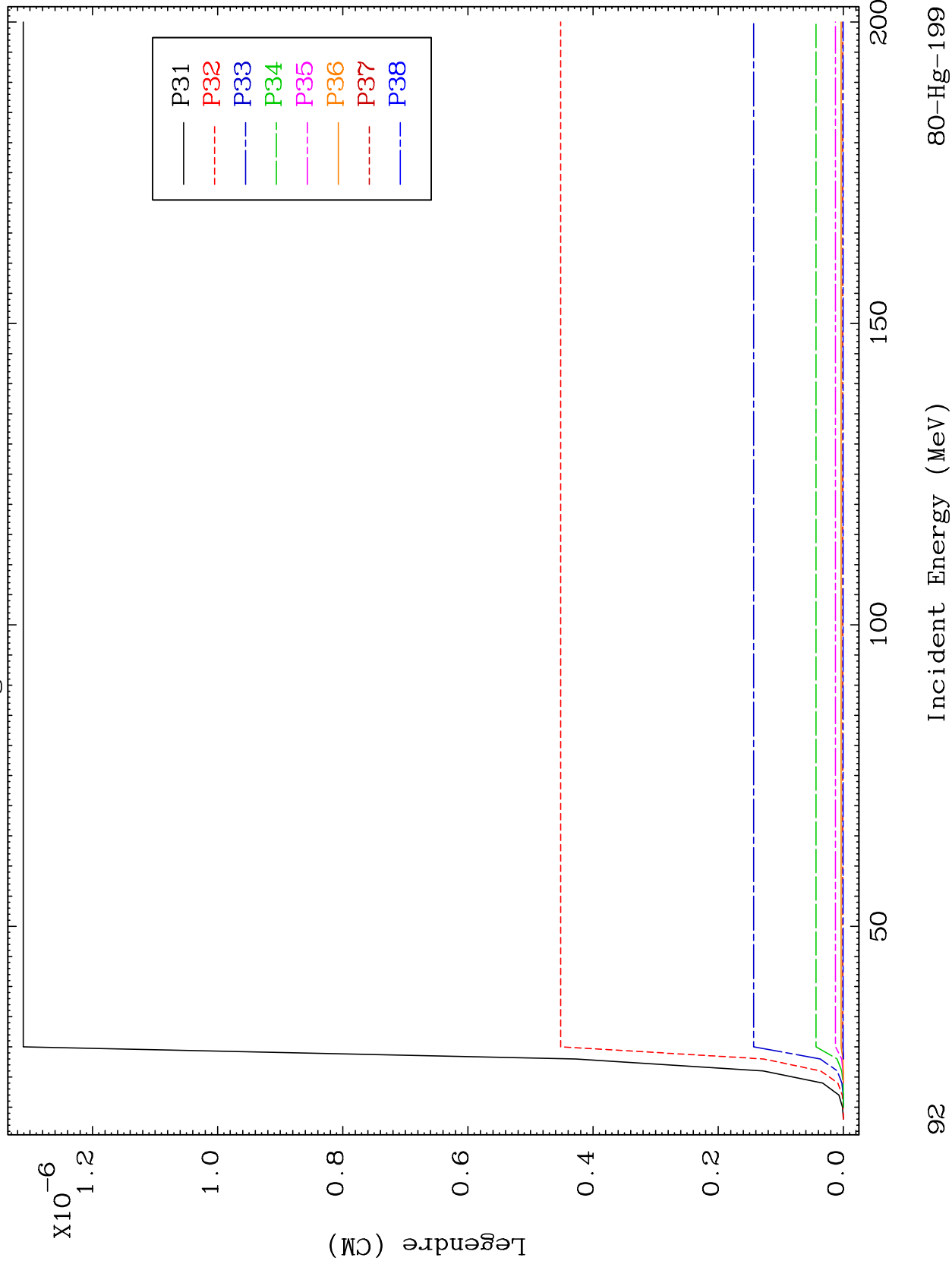


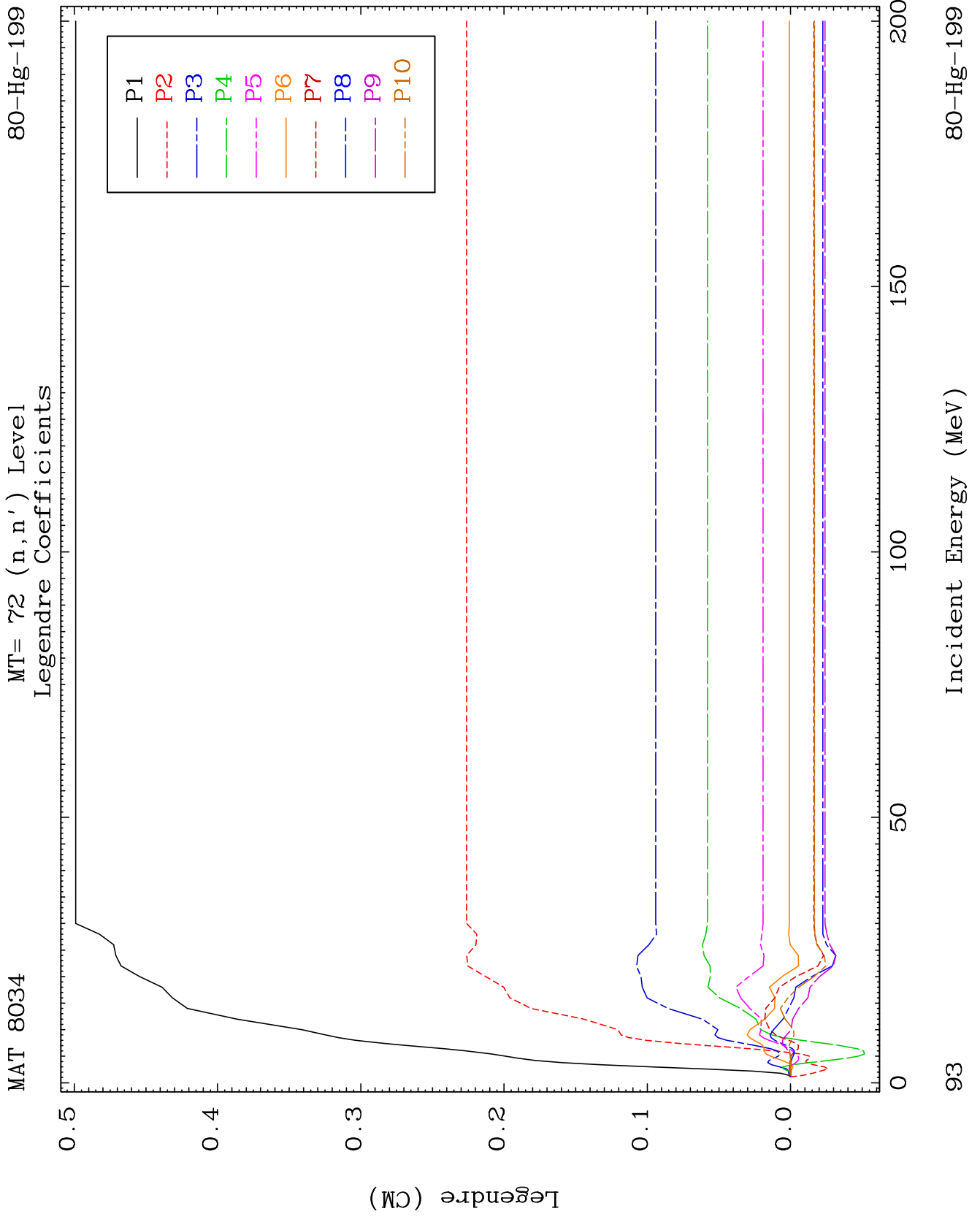


MAT 8034

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

80-Hg-199

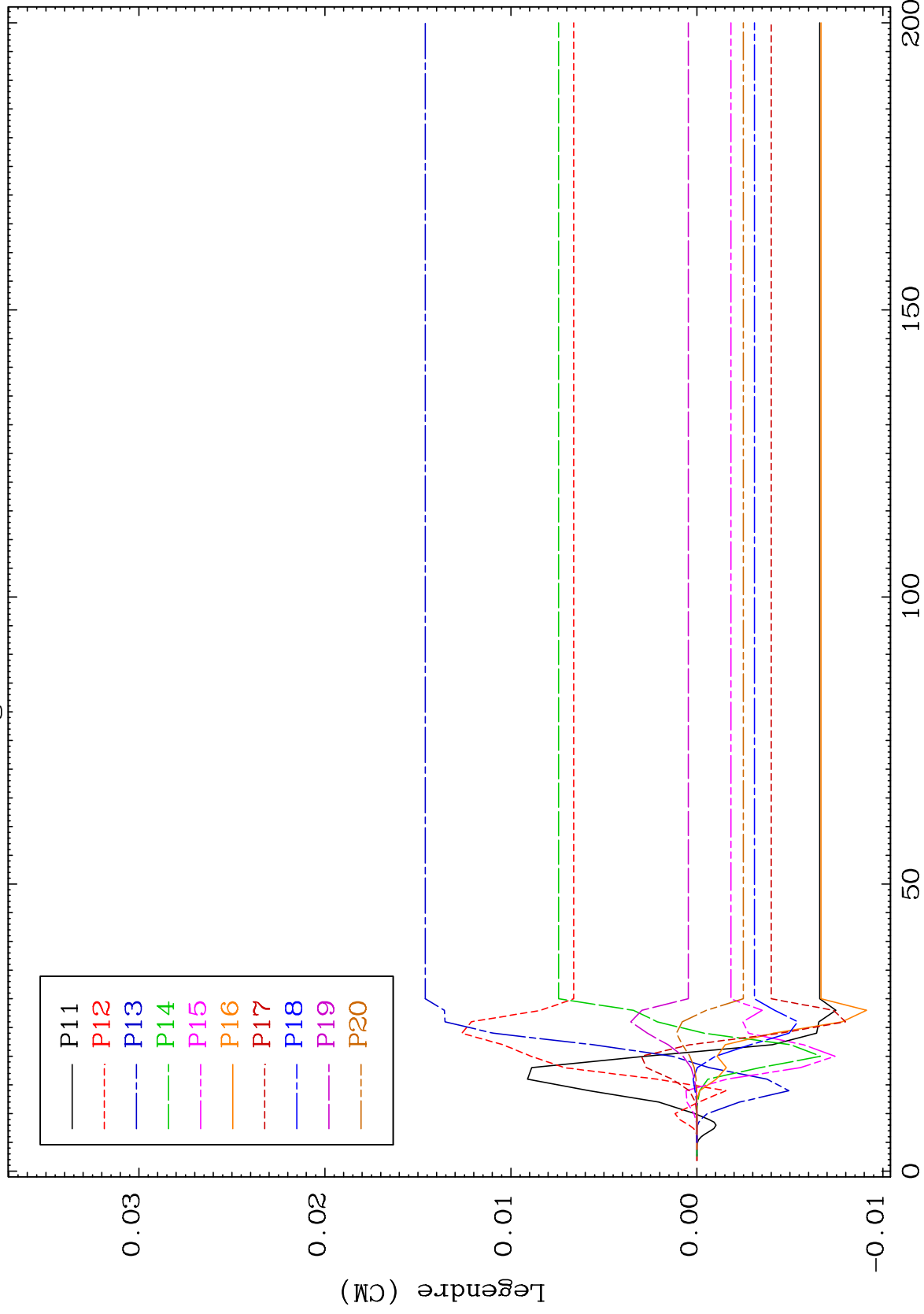




MAT 8034

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

80-Hg-199



94

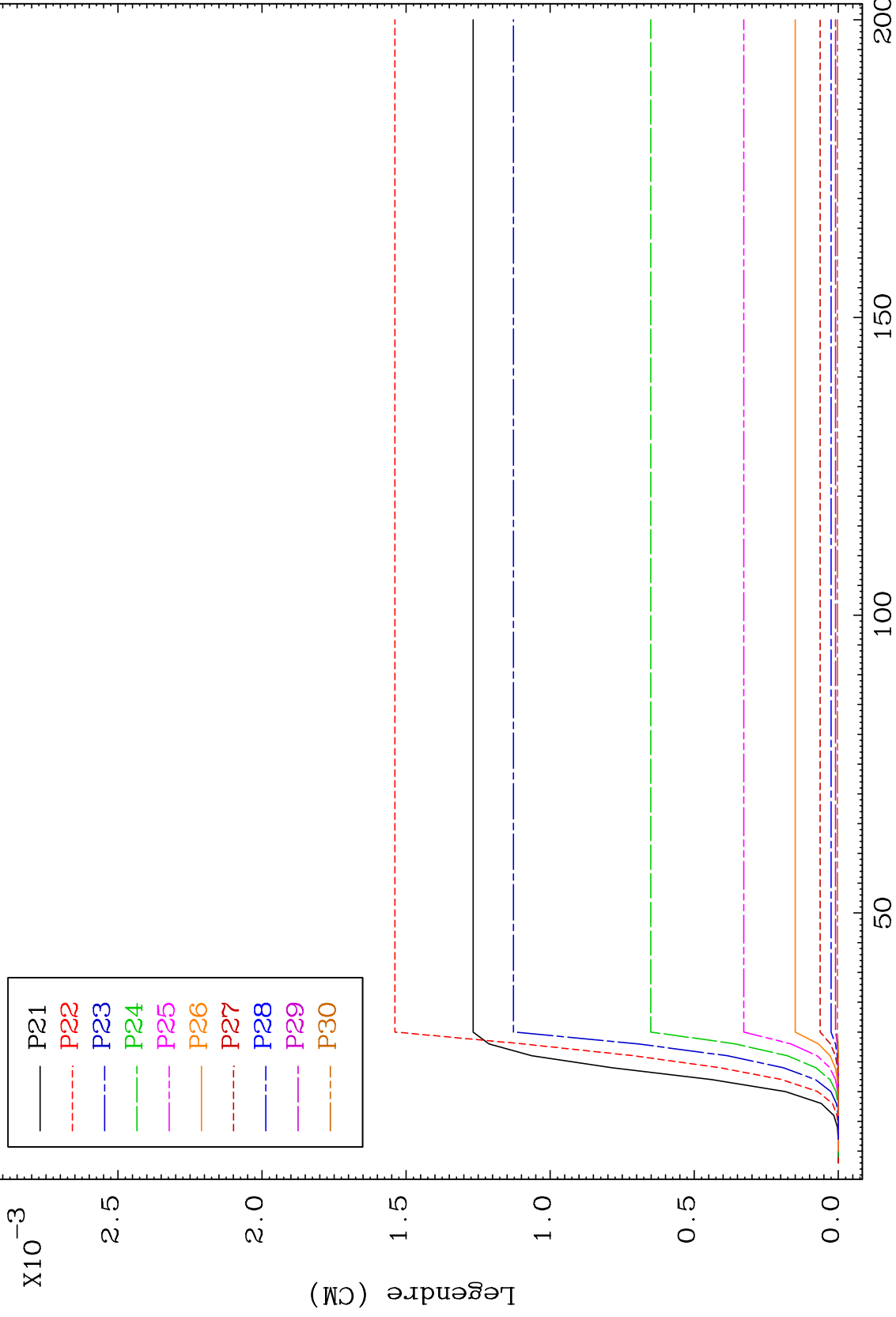
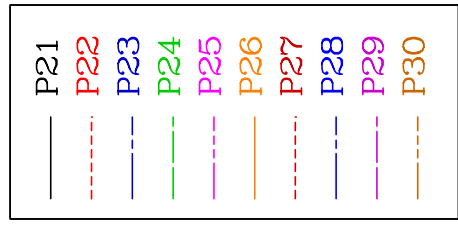
Incident Energy (MeV)

80-Hg-199

MAT 8034

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

80-Hg-199



95

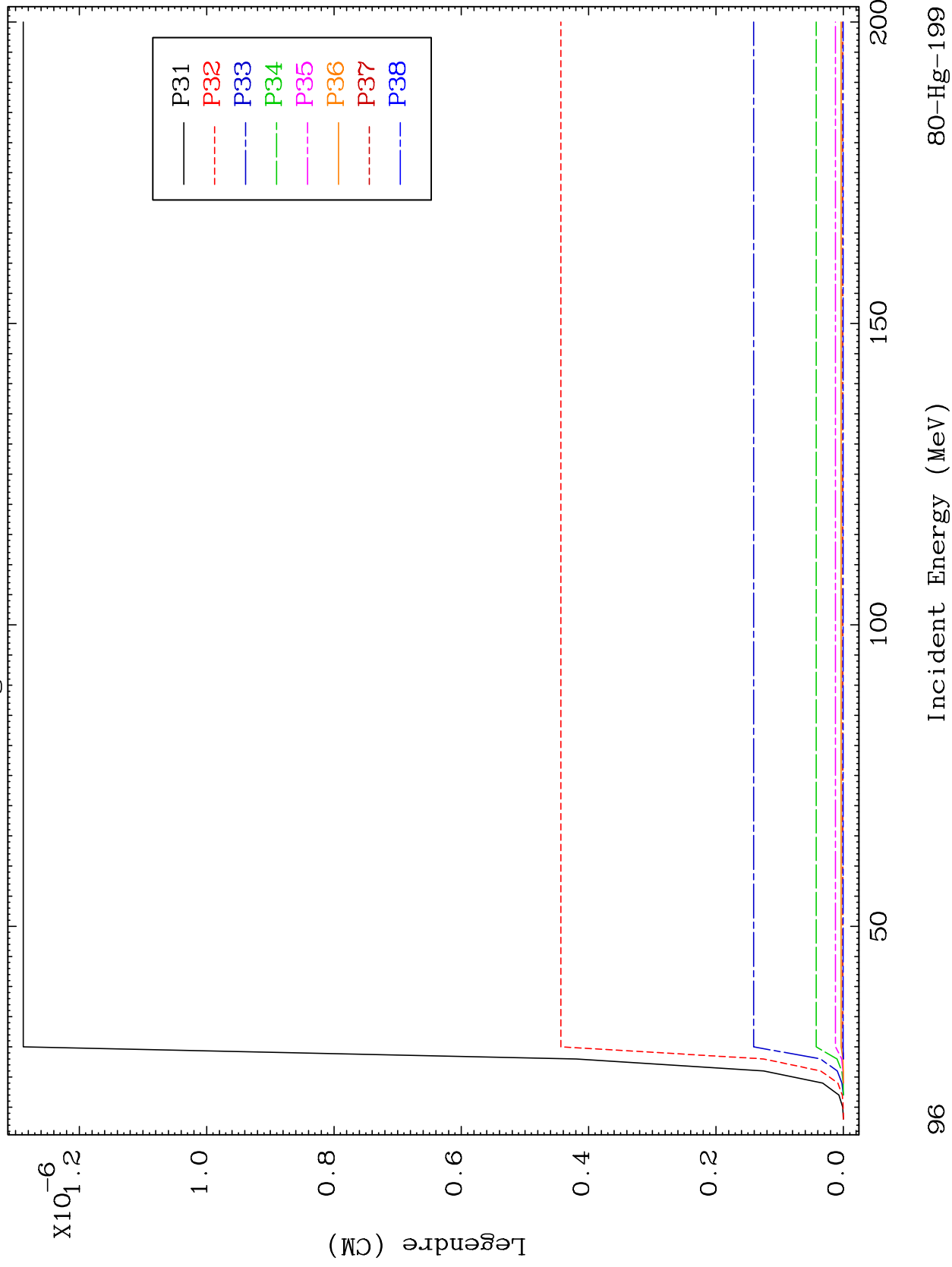
Incident Energy (MeV)

80-Hg-199

MAT 8034

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

80-Hg-199

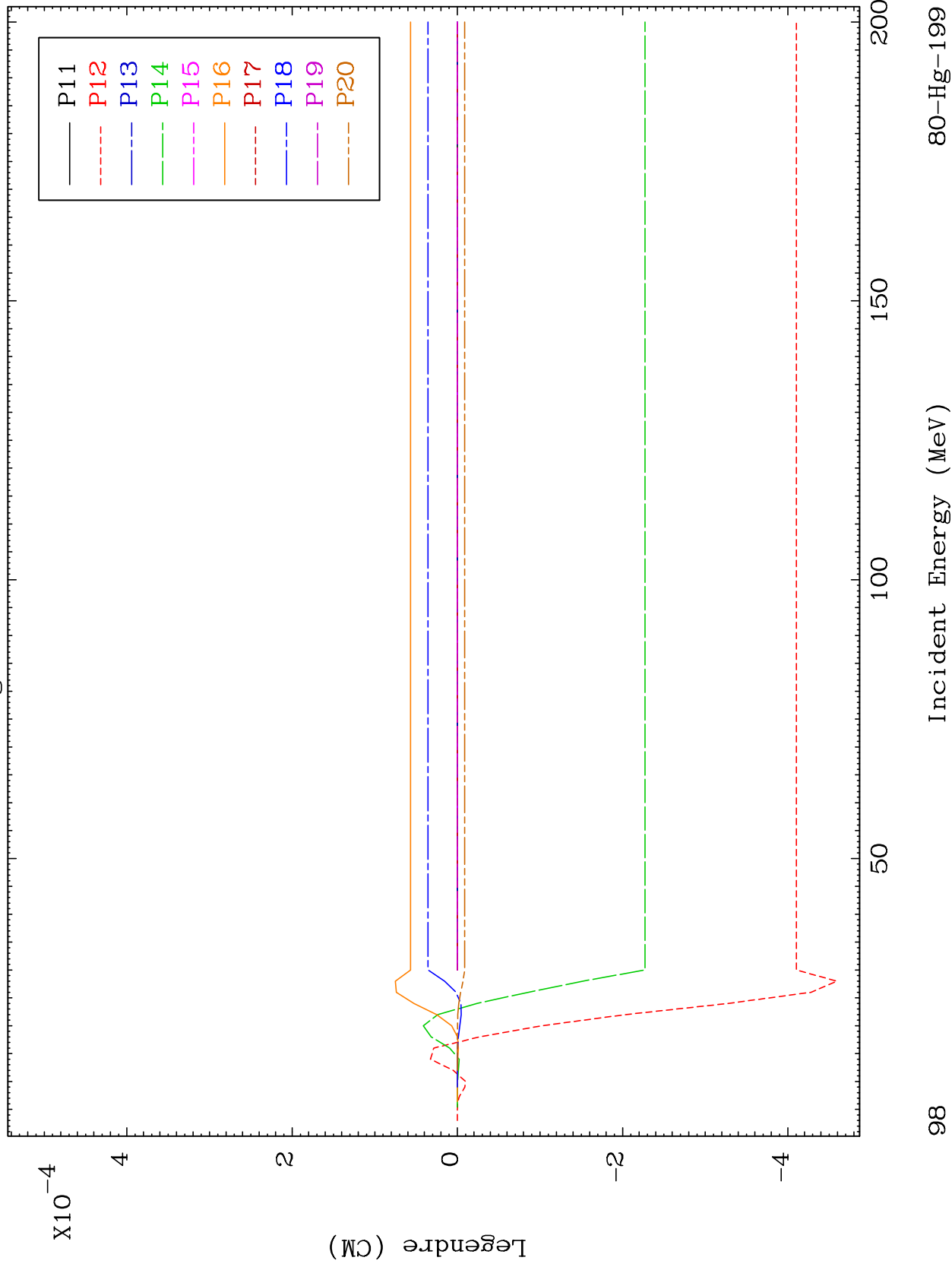




MAT 8034

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

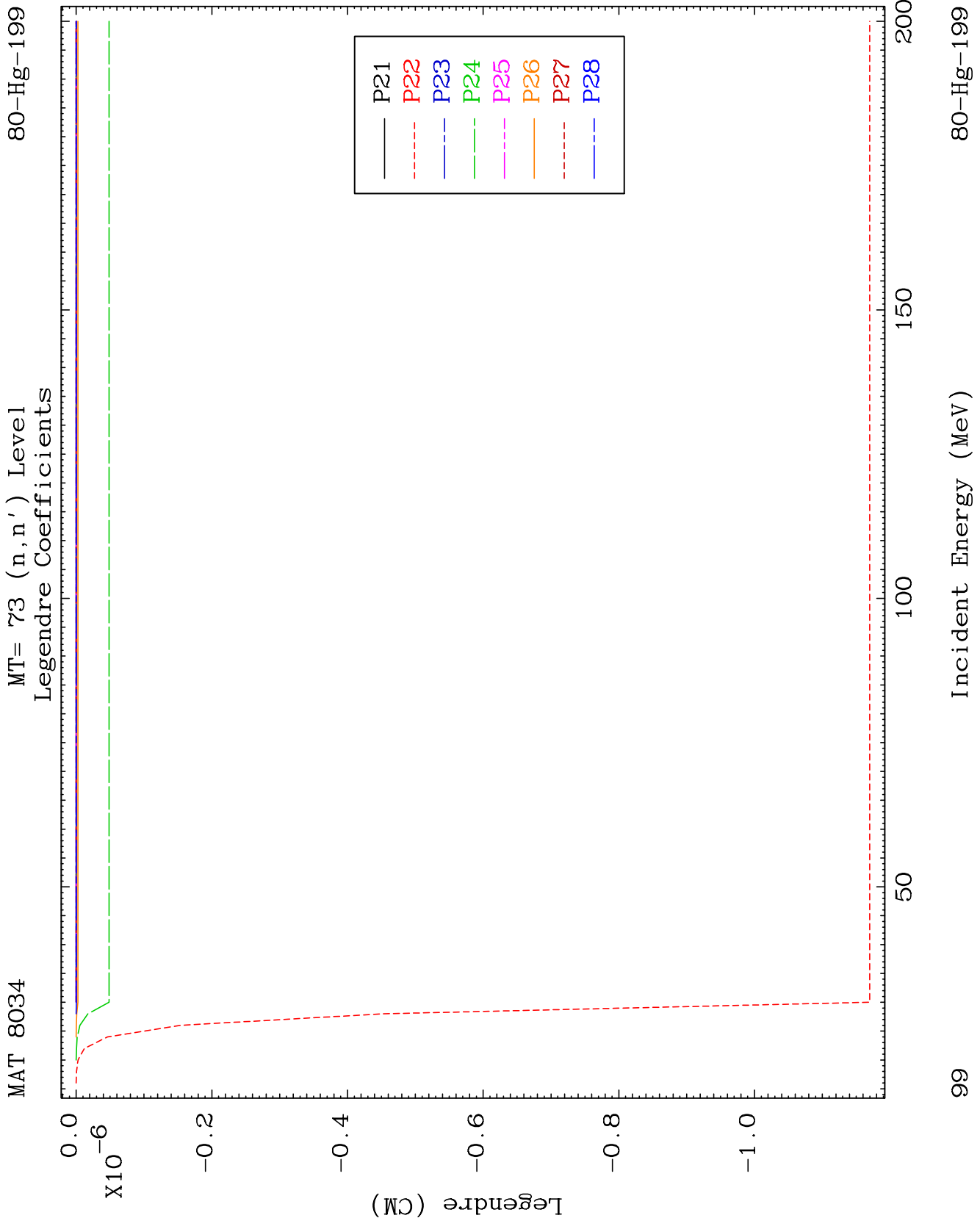
80-Hg-199

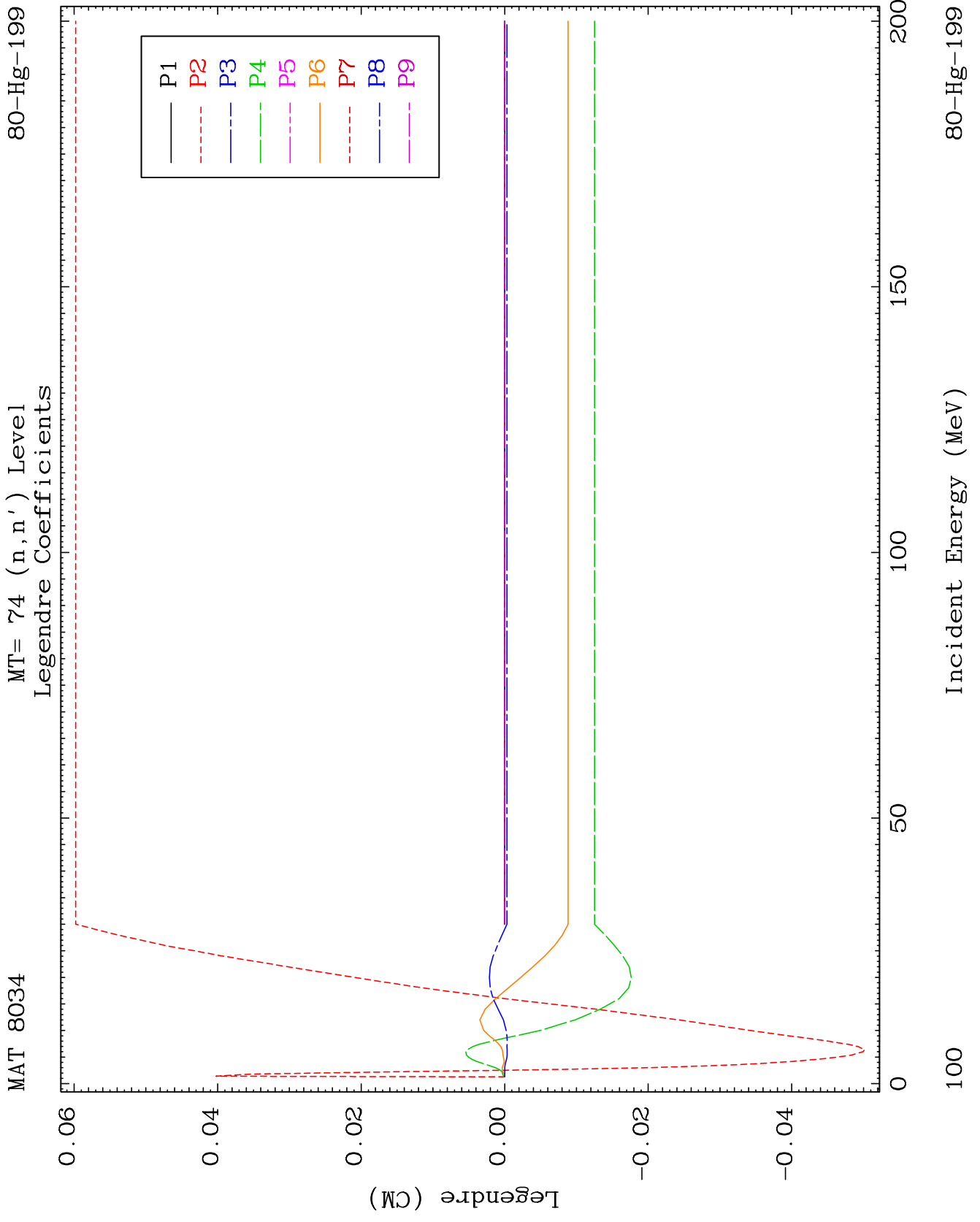


98

Incident Energy (MeV)

80-Hg-199

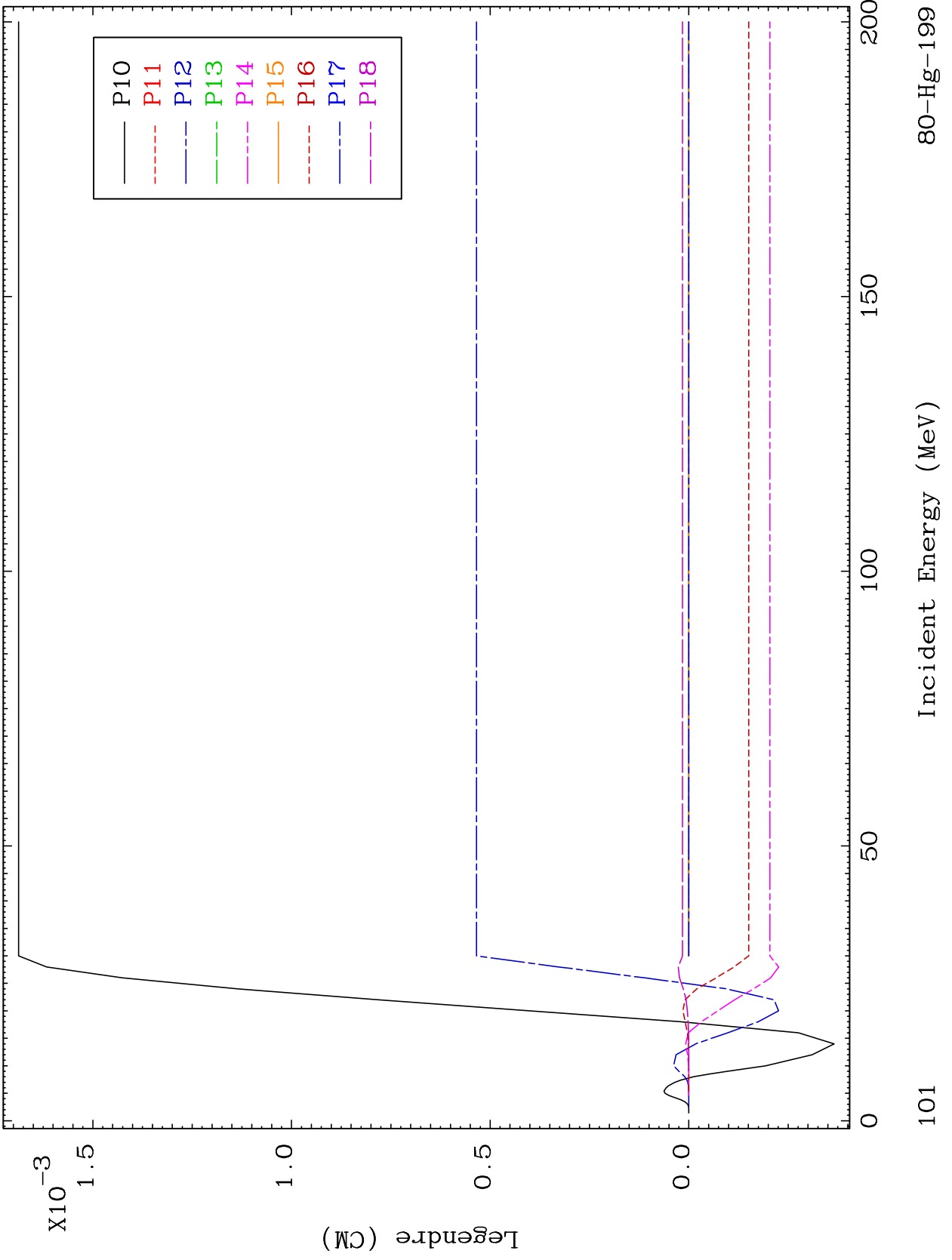


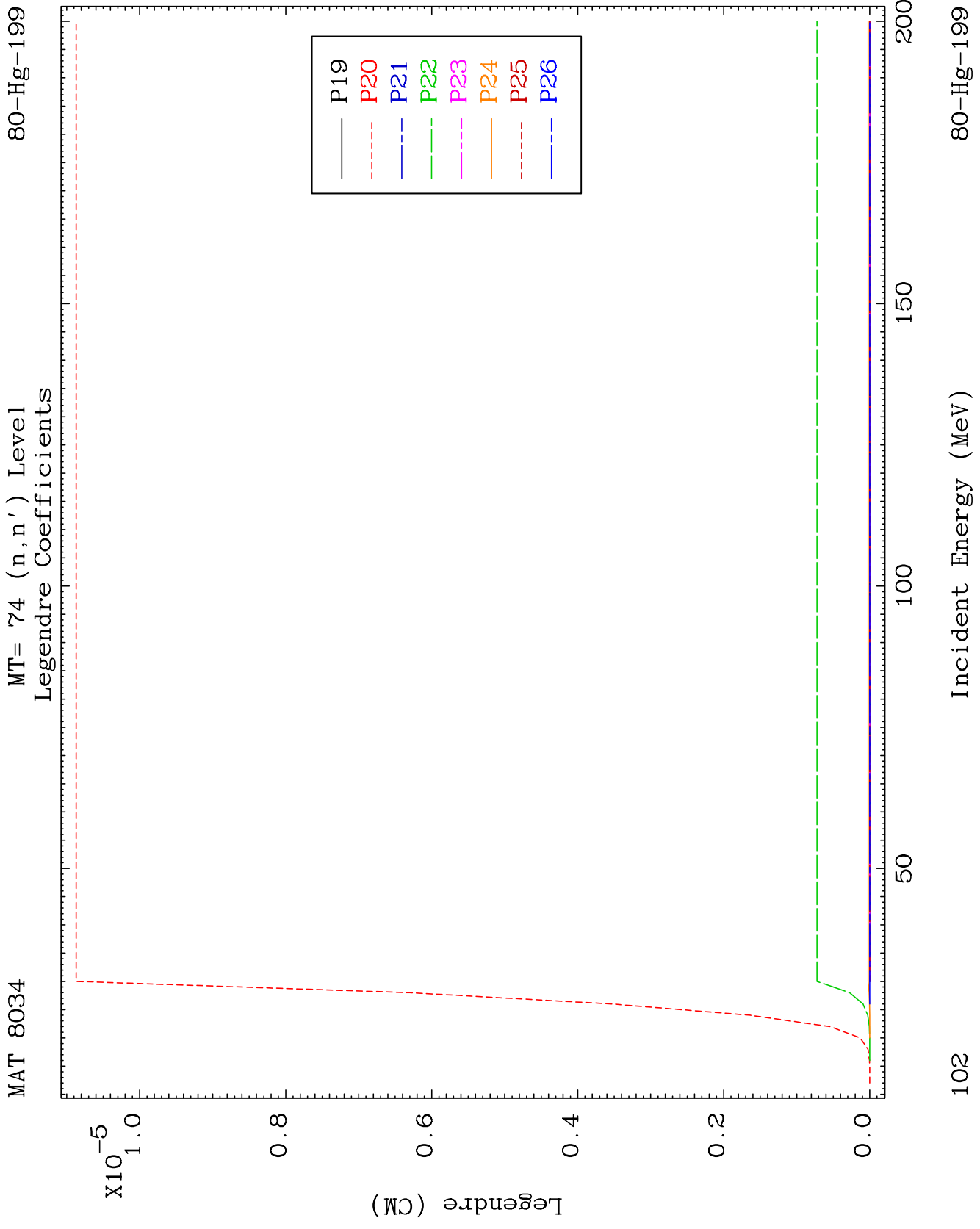


MAT 8034

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

80-Hg-199

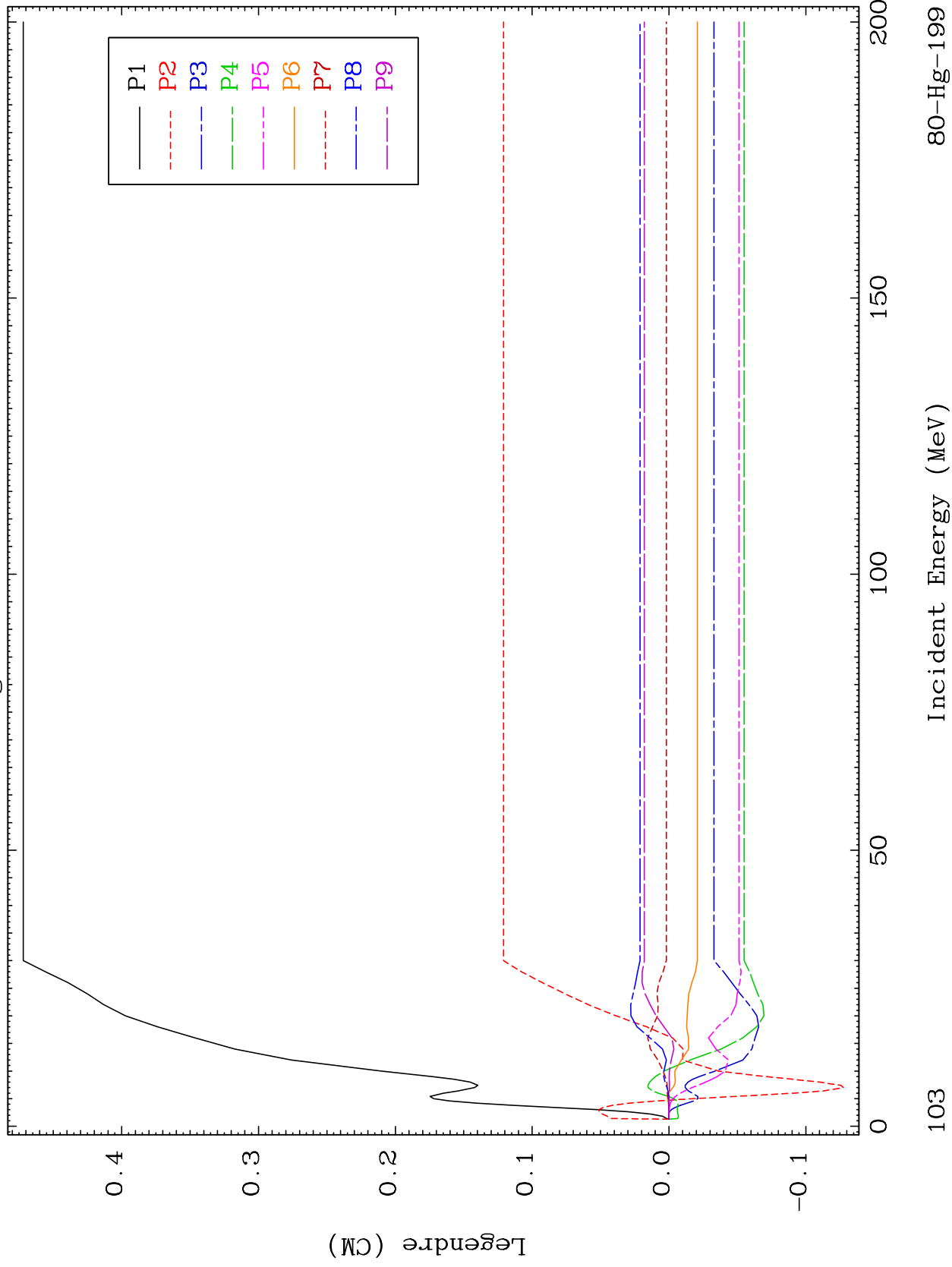




MAT 8034

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

80-Hg-199



80-Hg-199

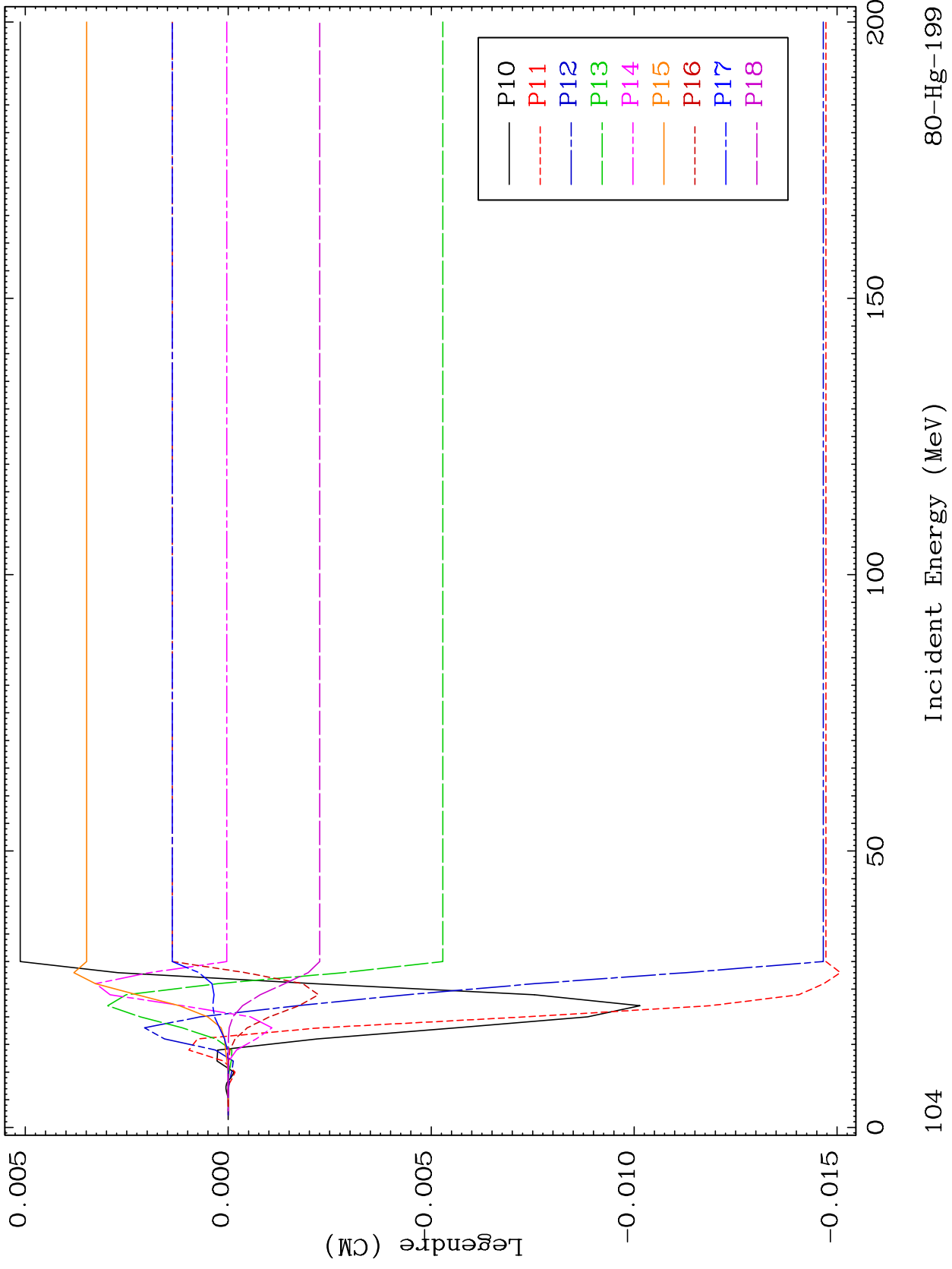
Incident Energy (MeV)

103

MAT 8034

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

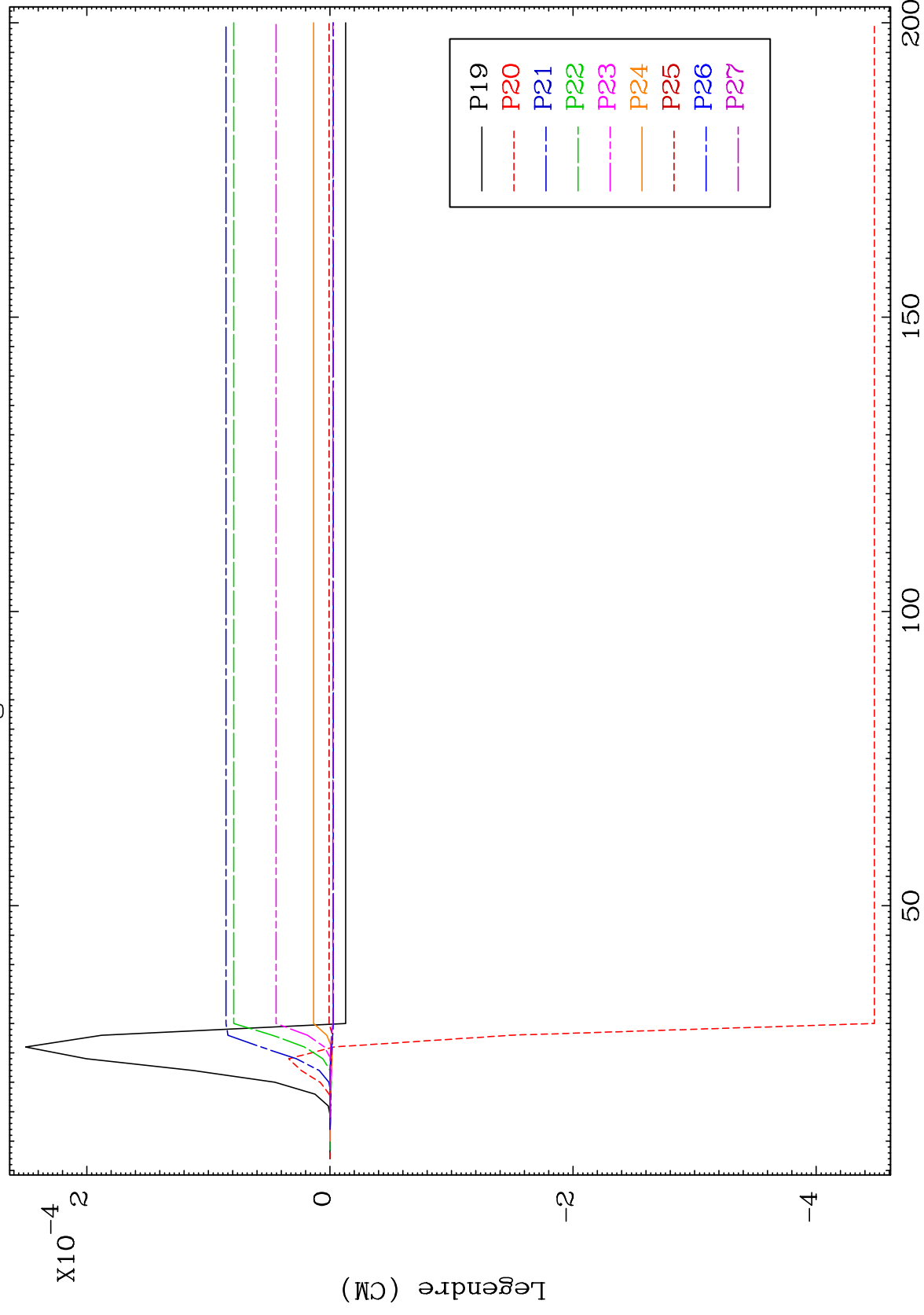
80-Hg-199



MAT 8034

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

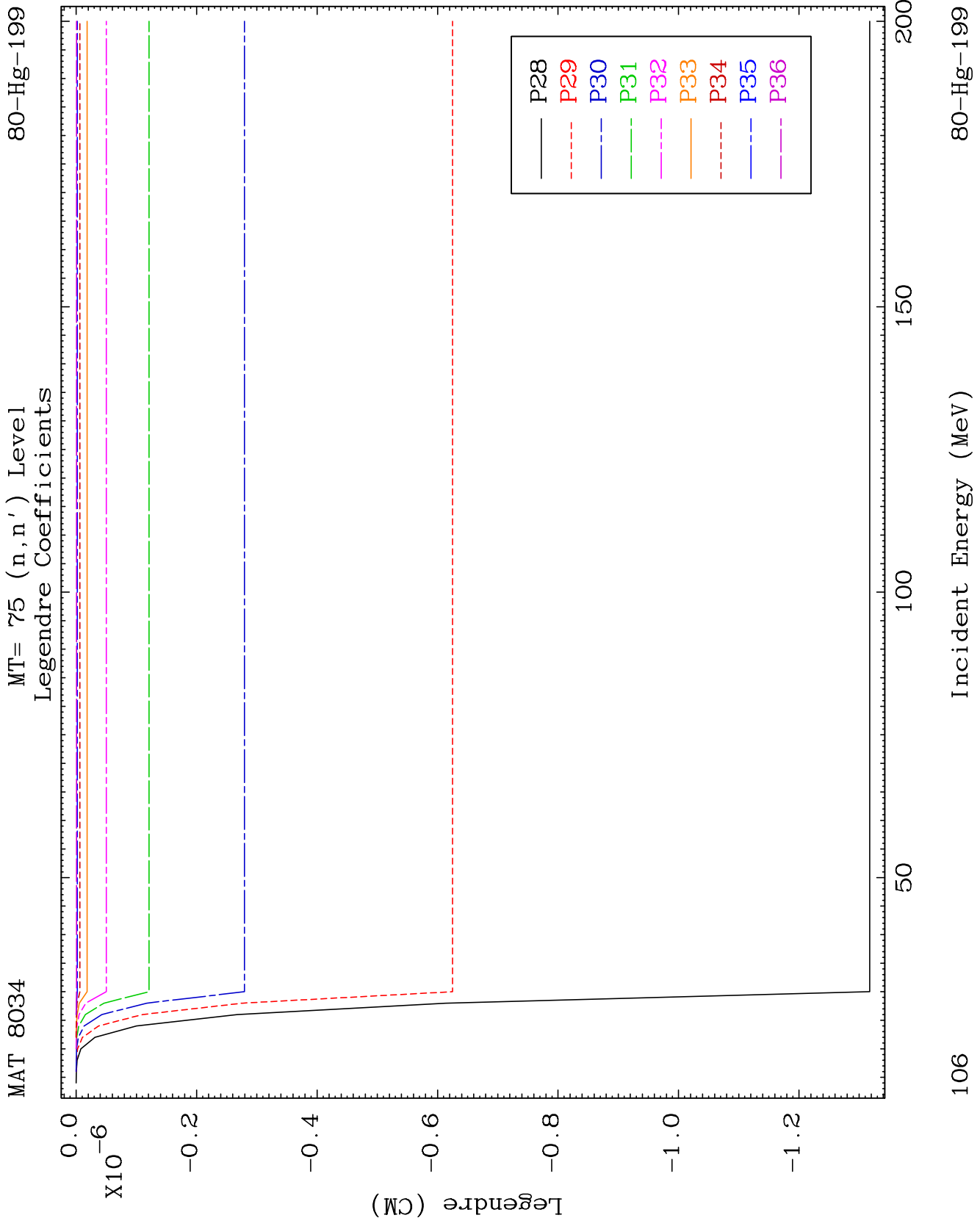
80-Hg-199



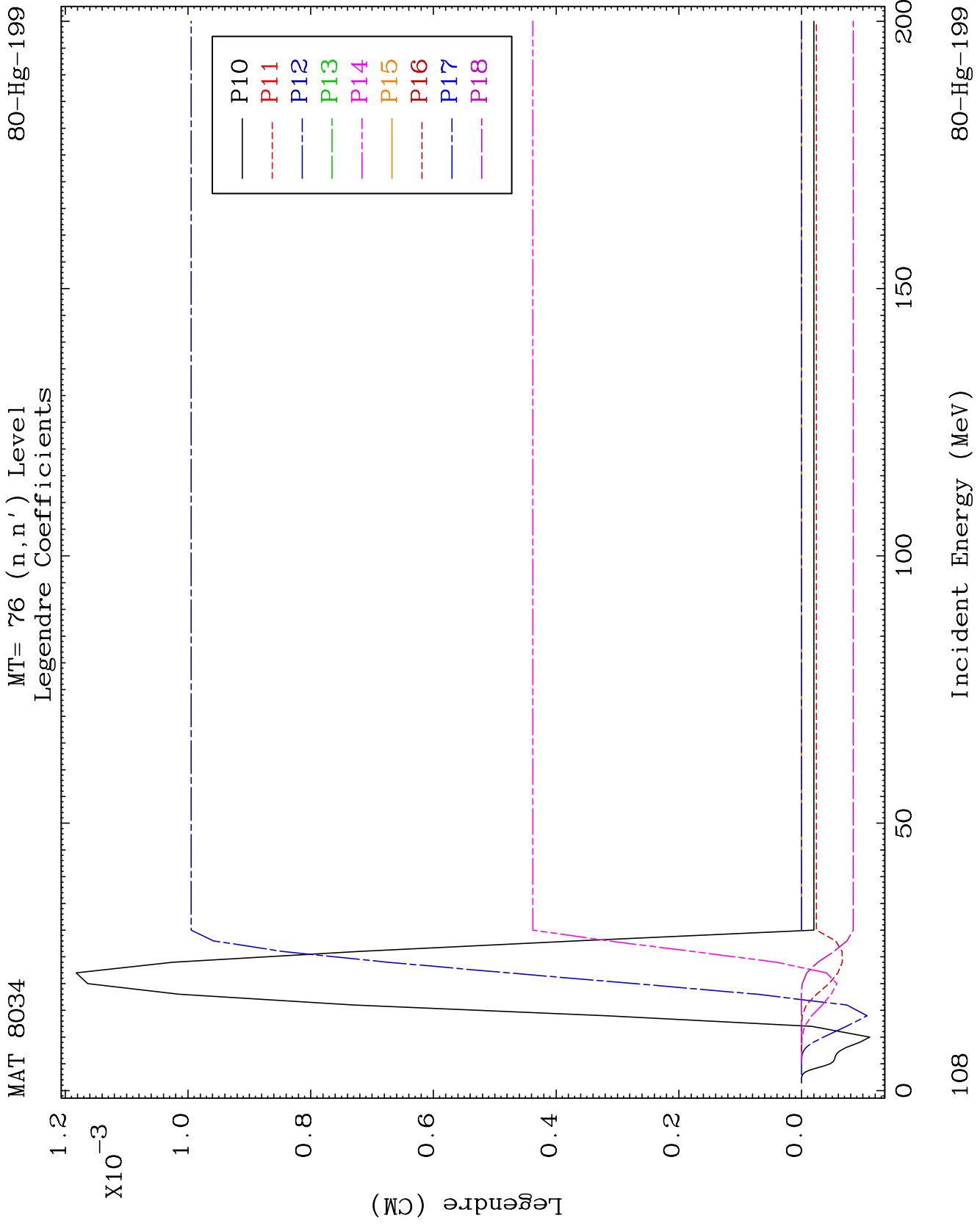
105

Incident Energy (MeV)

80-Hg-199



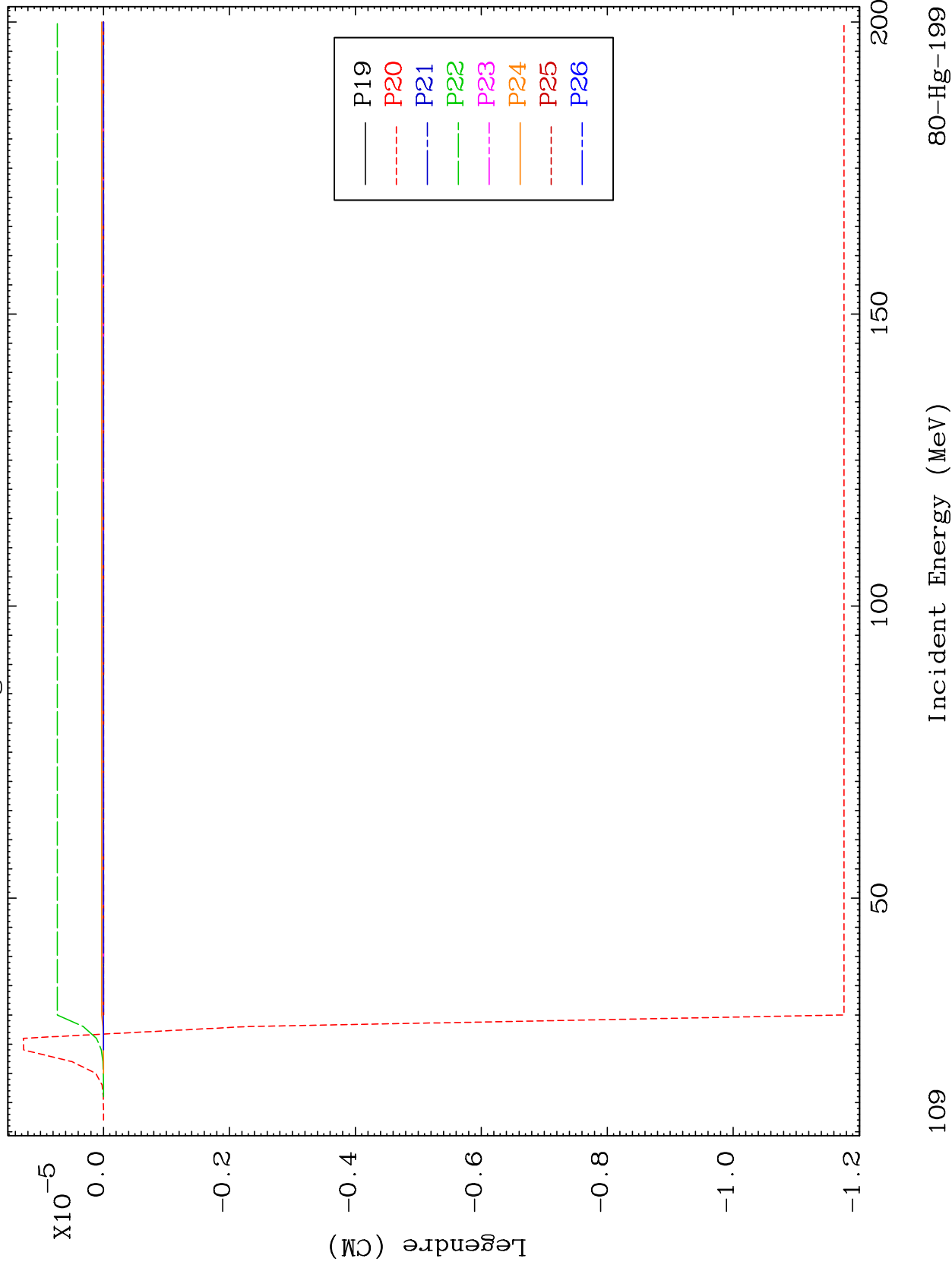




MAT 8034

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

80-Hg-199



109

Incident Energy (MeV)

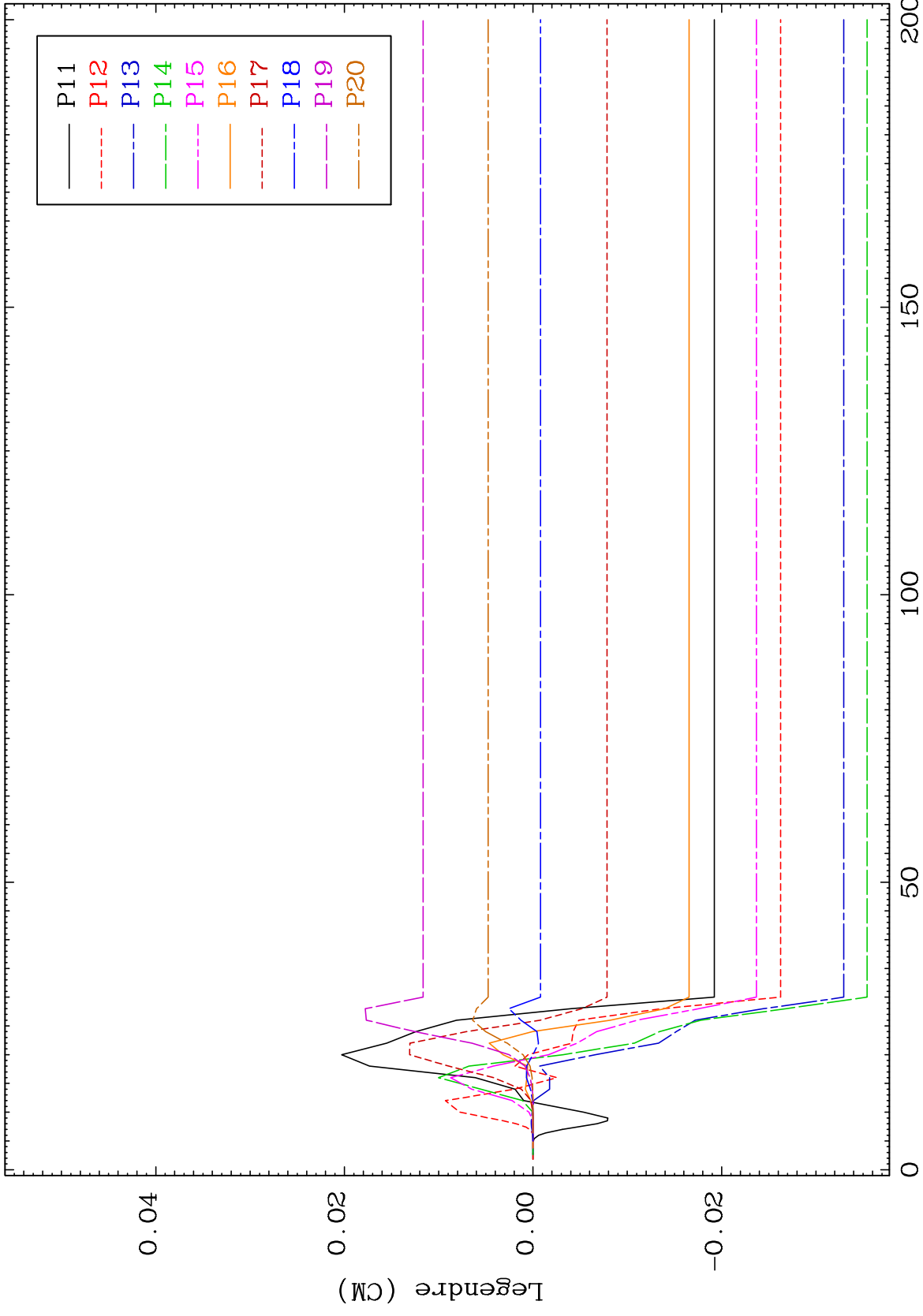
80-Hg-199



MAT 8034

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

80-Hg-199



111

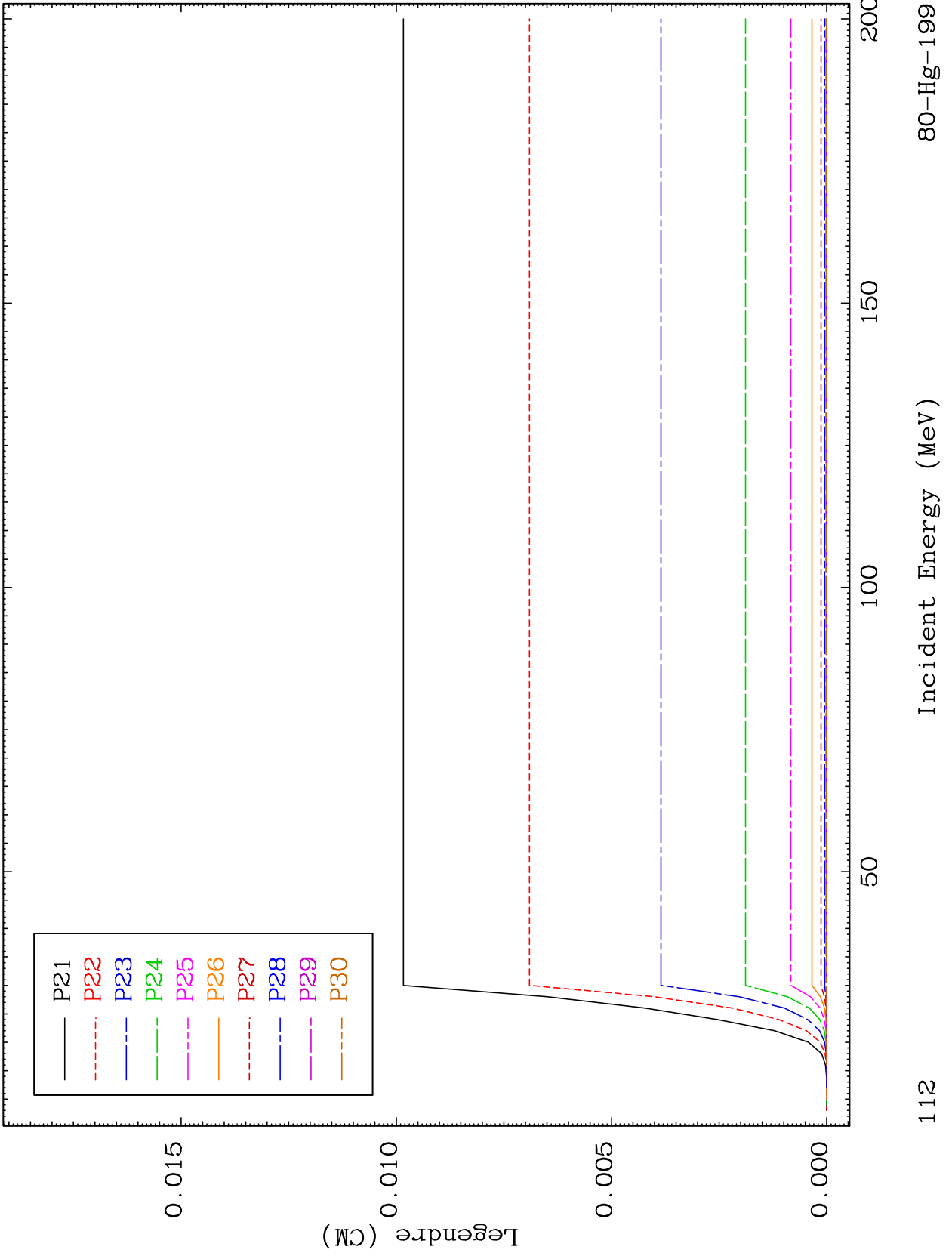
Incident Energy (MeV)

80-Hg-199

MAT 8034

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

80-Hg-199



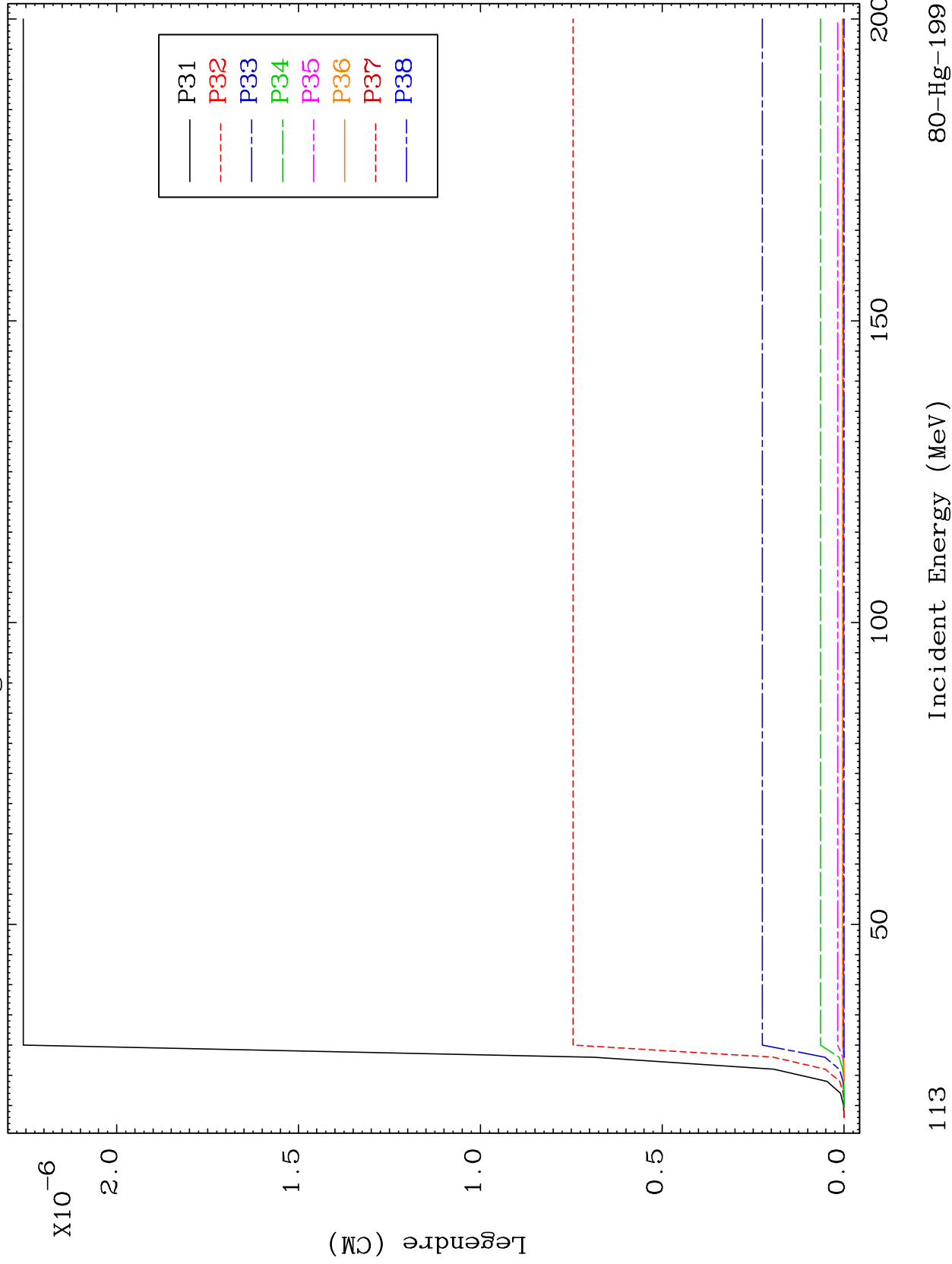
112

80-Hg-199

MAT 8034

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

80-Hg-199

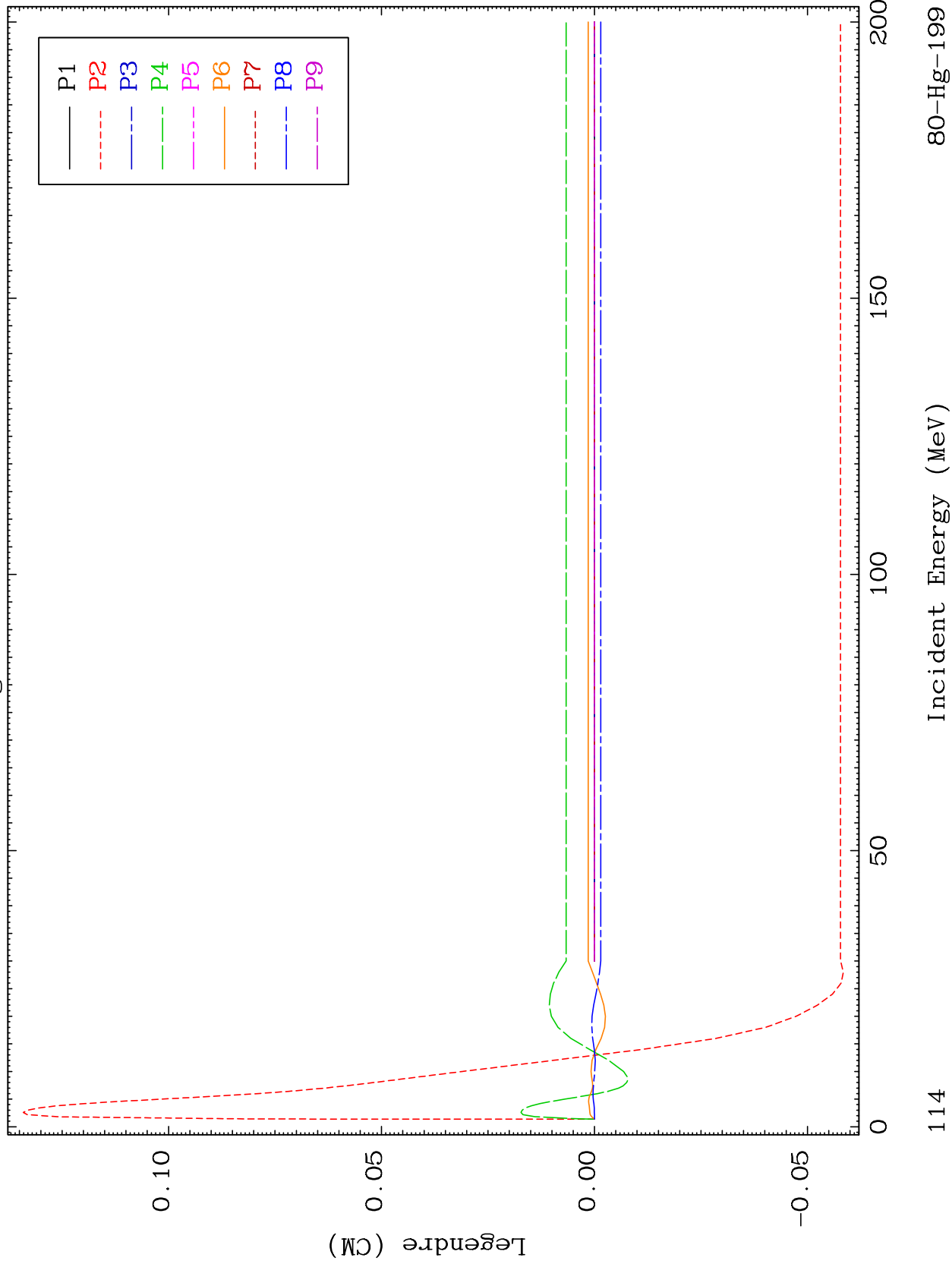


113

MAT 8034

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

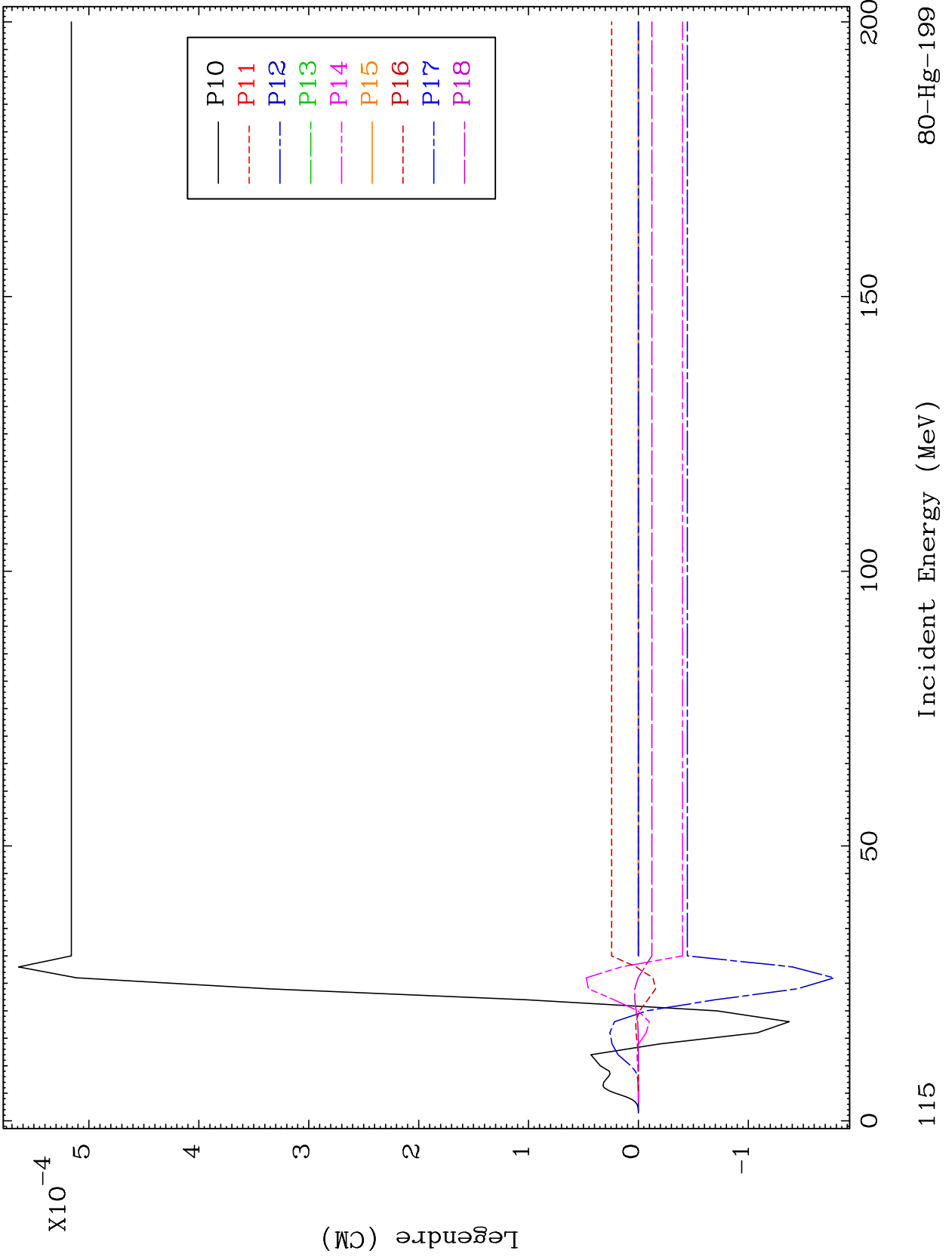
80-Hg-199

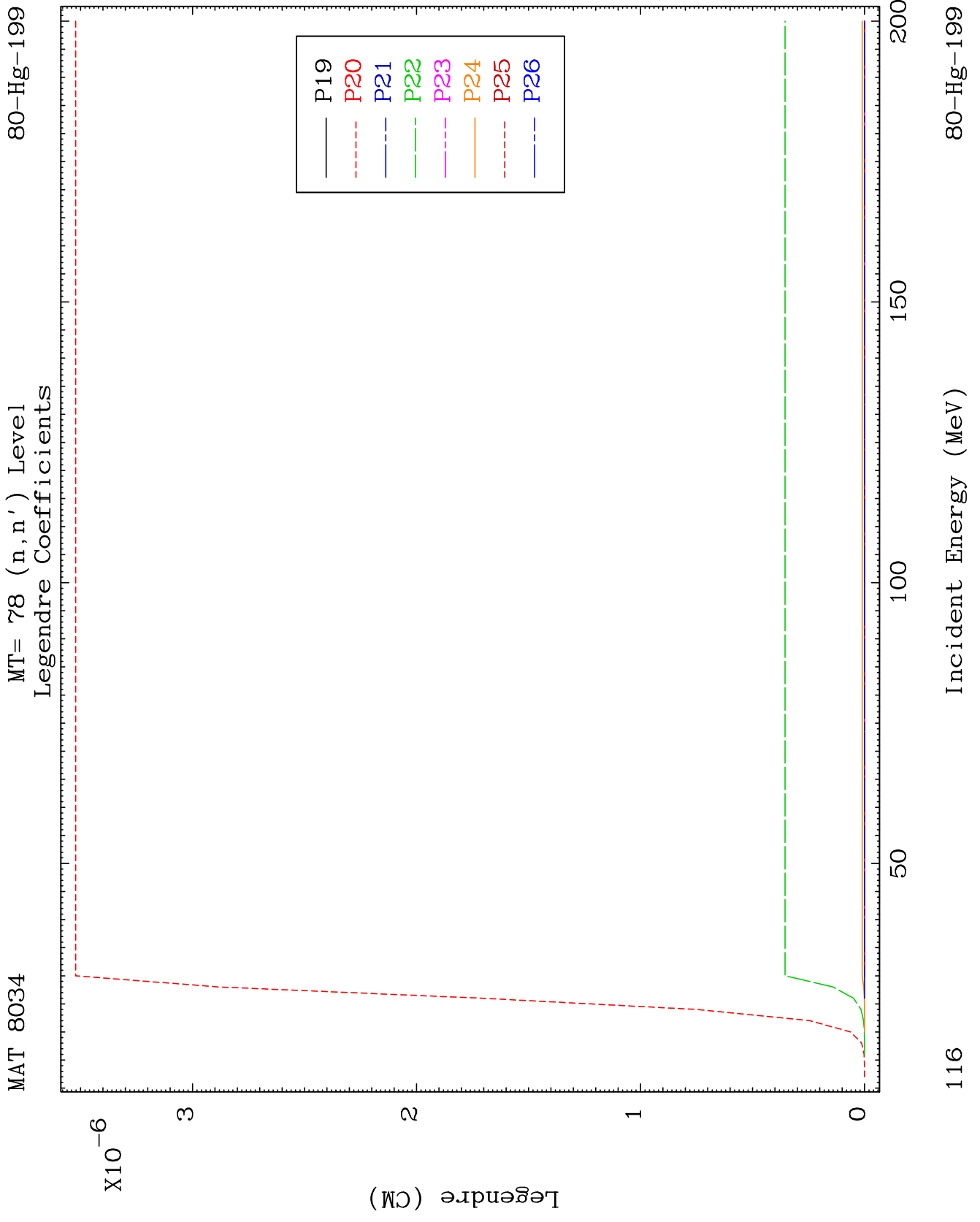


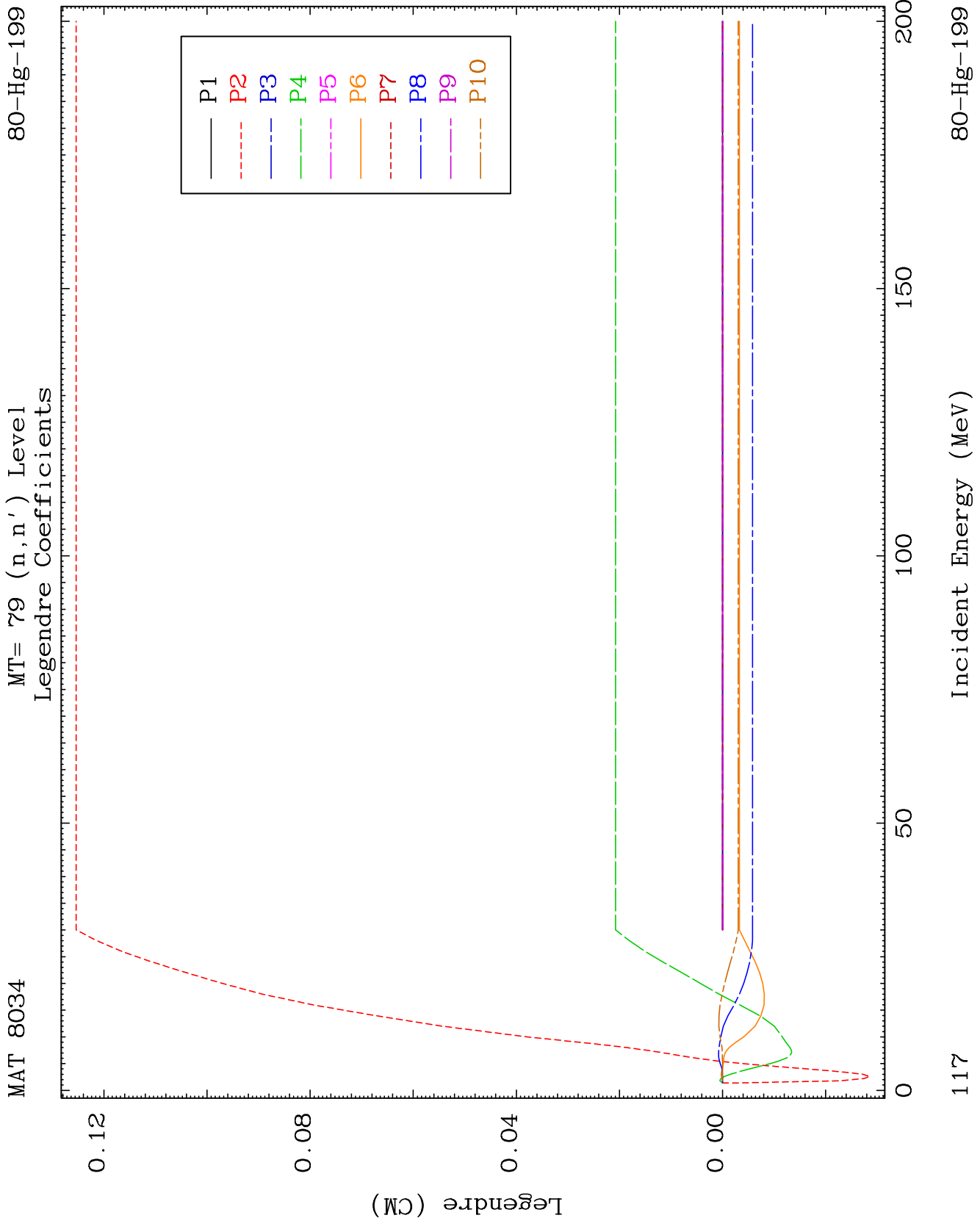
MAT 8034

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

80-Hg-199



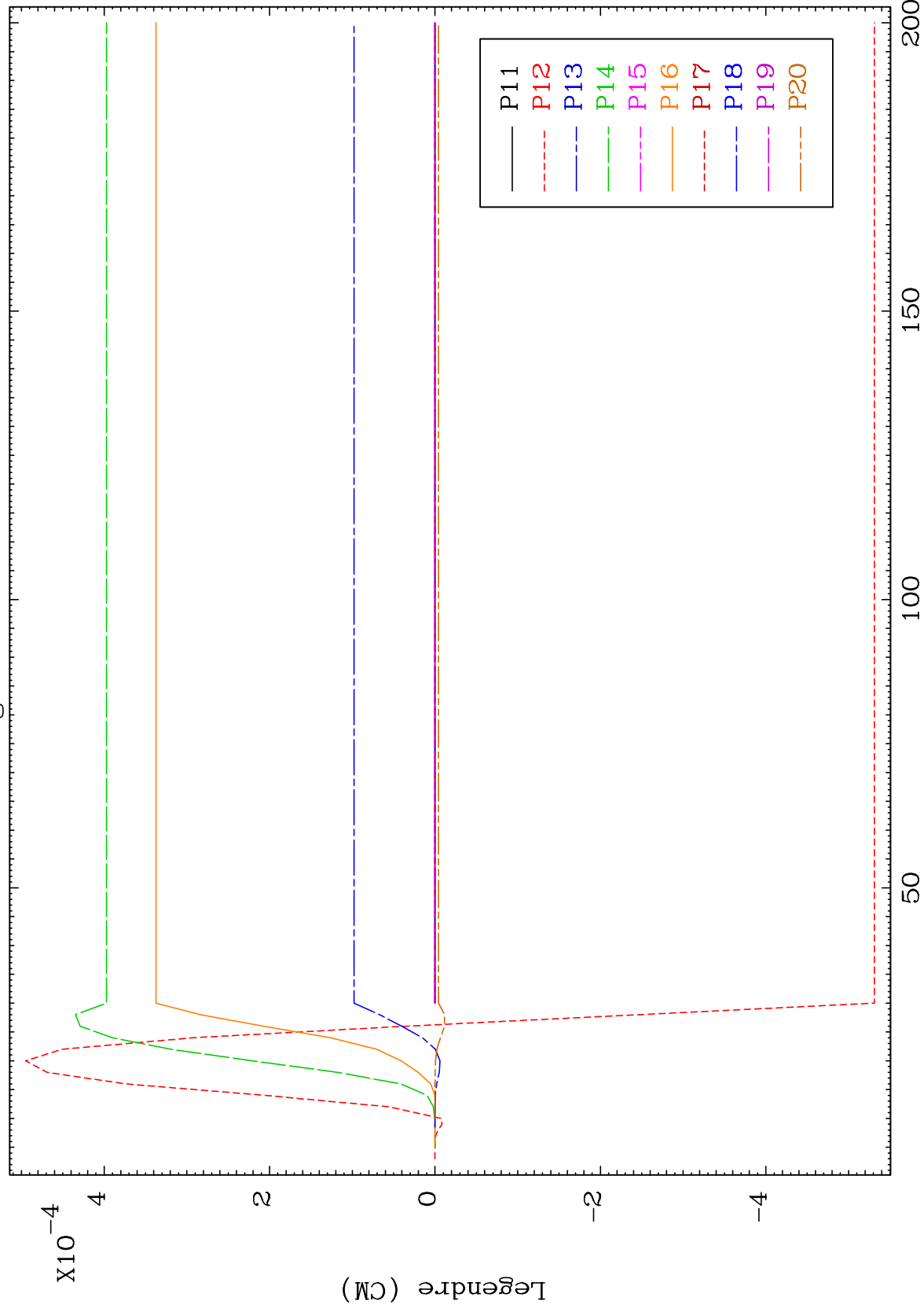




MAT 8034

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

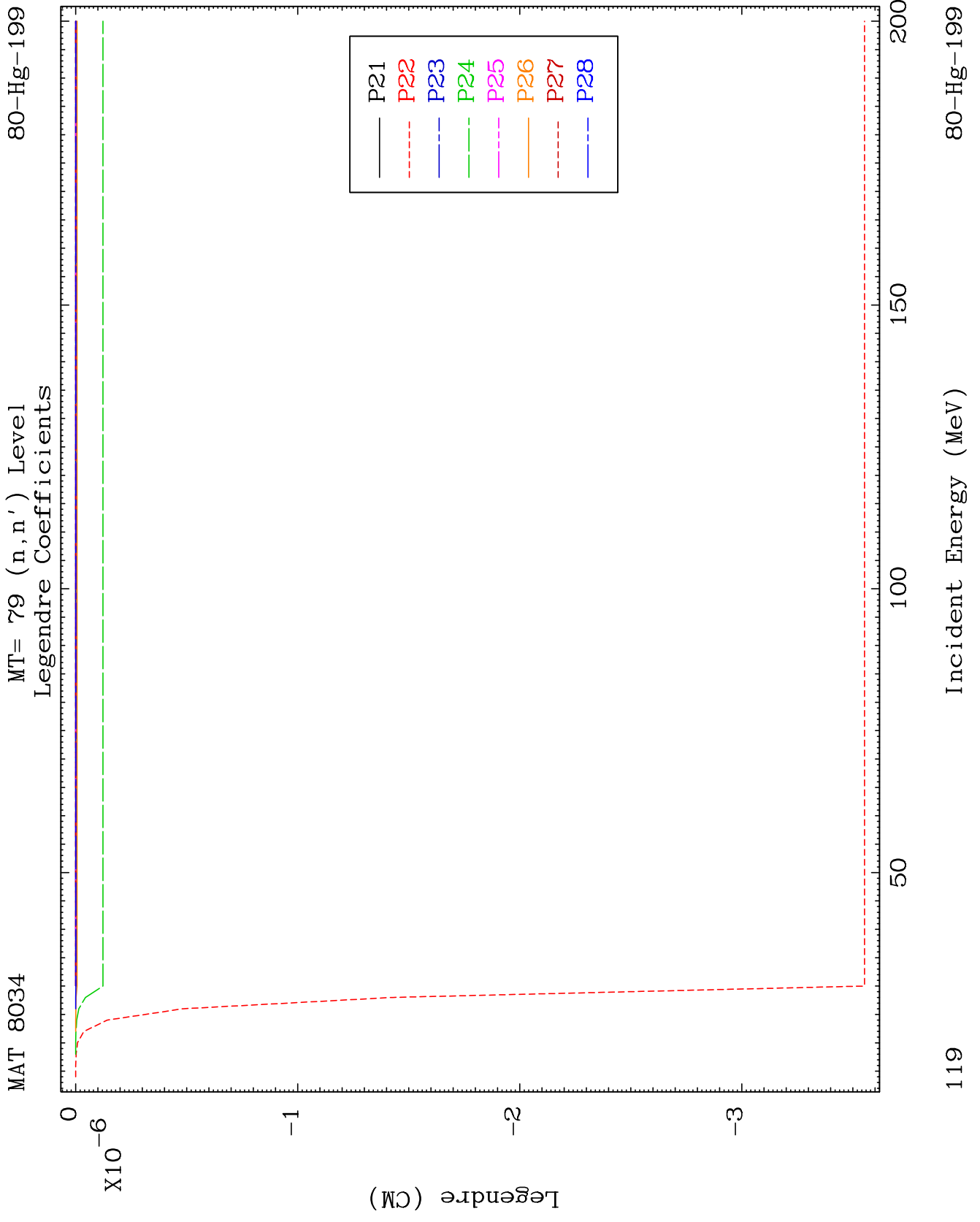
80-Hg-199



118

Incident Energy (MeV)

80-Hg-199

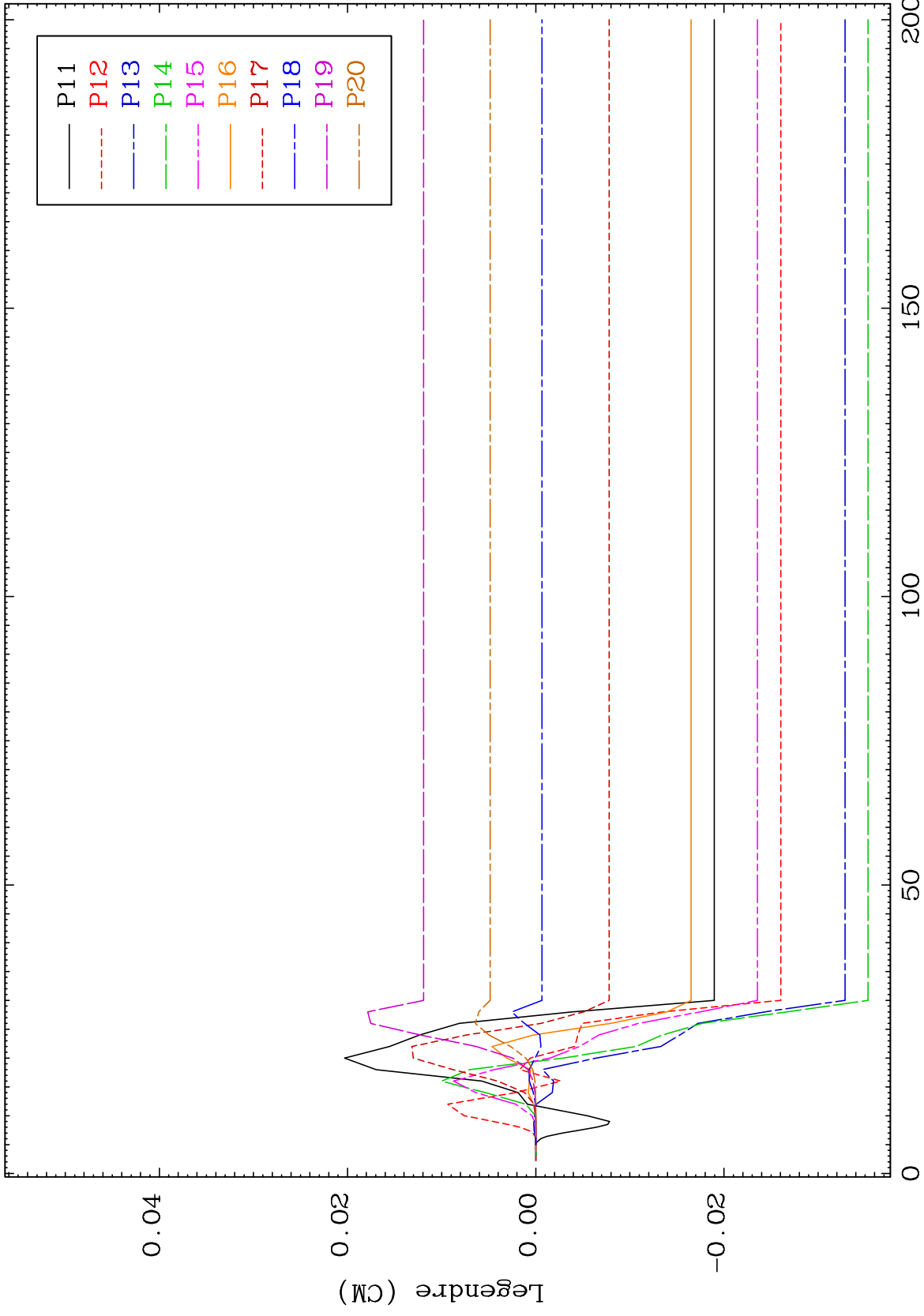




MAT 8034

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

80-Hg-199



121

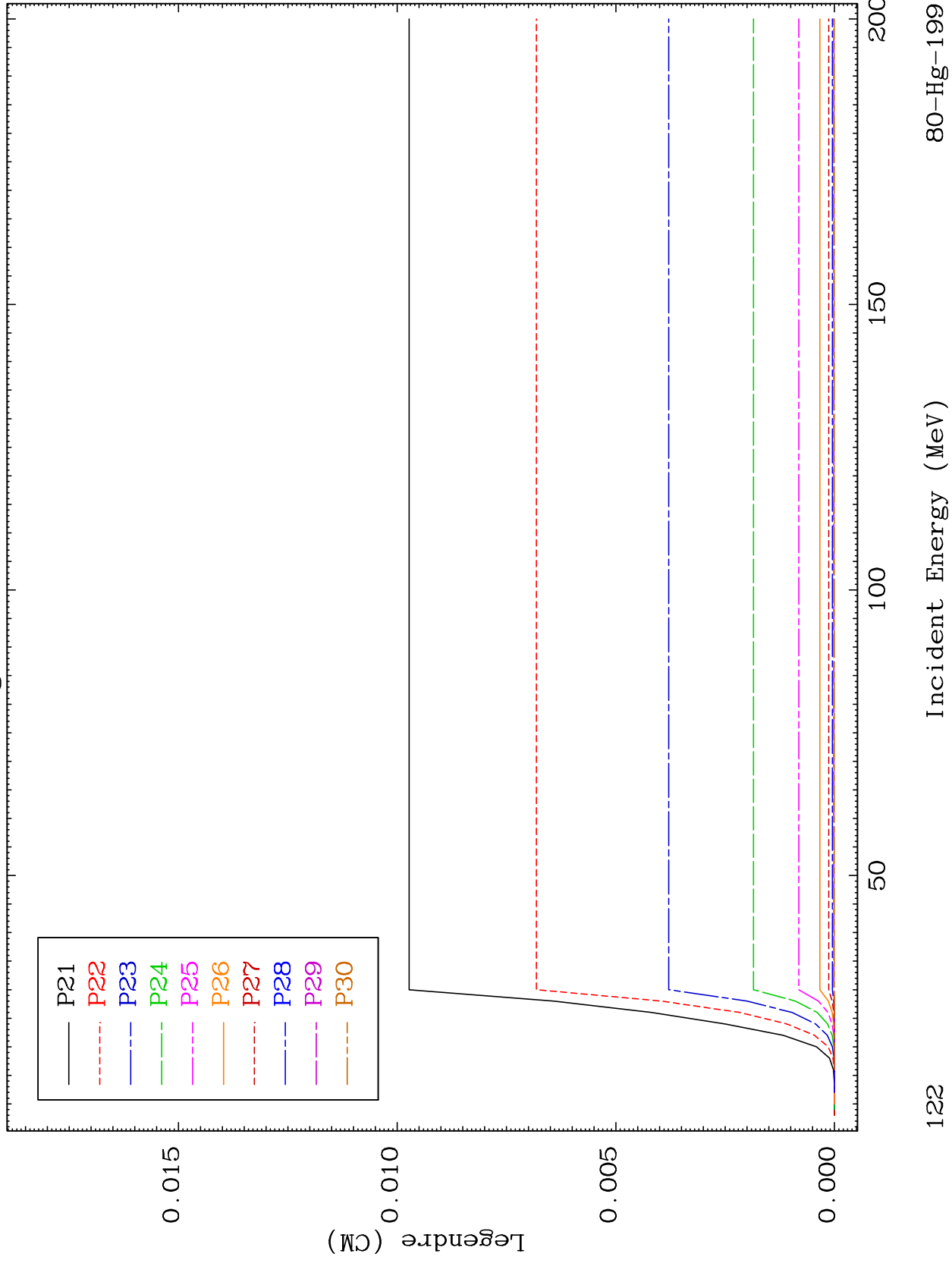
Incident Energy (MeV)

80-Hg-199

MAT 8034

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

80-Hg-199



122

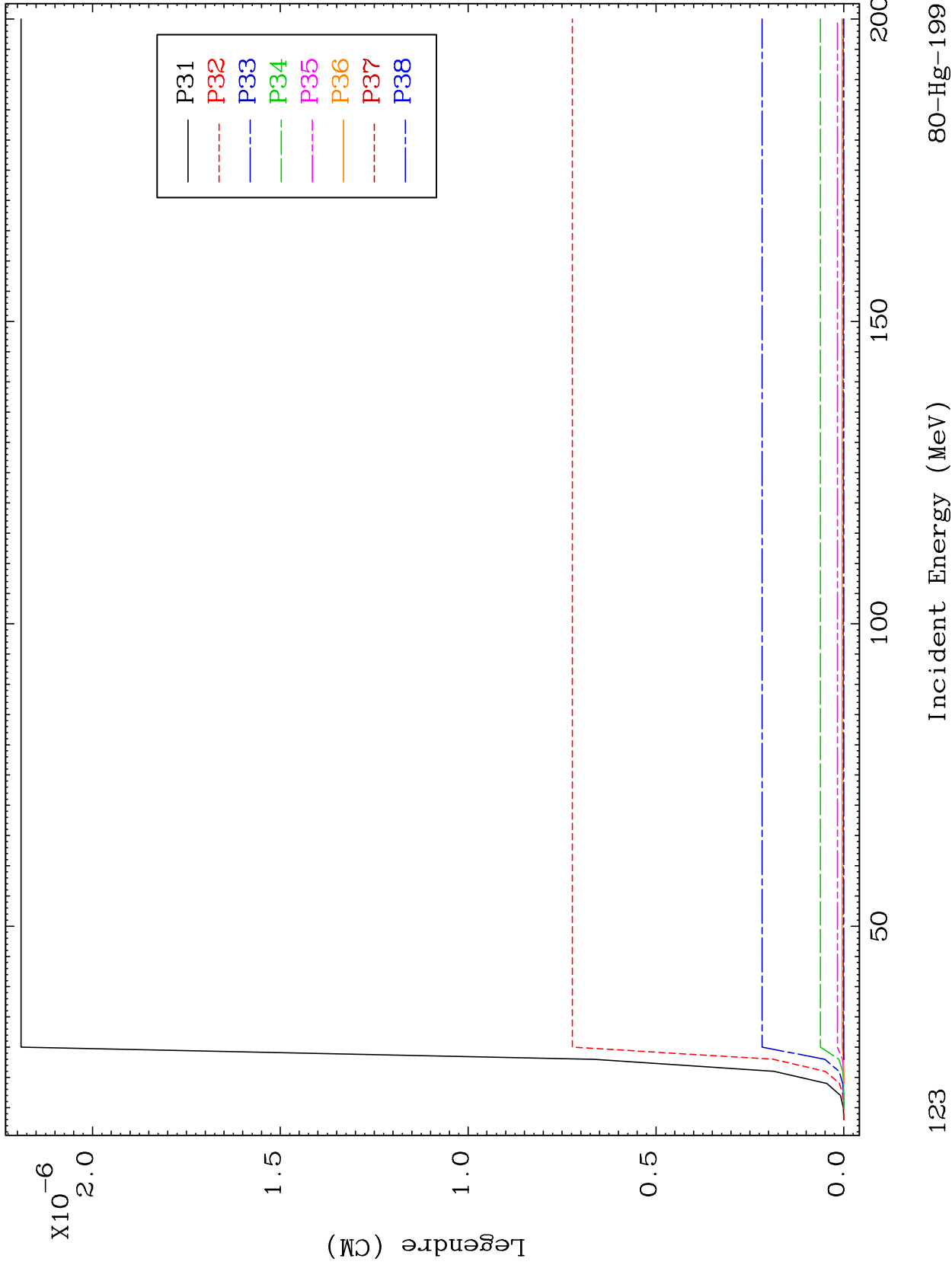
Incident Energy (MeV)

80-Hg-199

MAT 8034

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

80-Hg-199

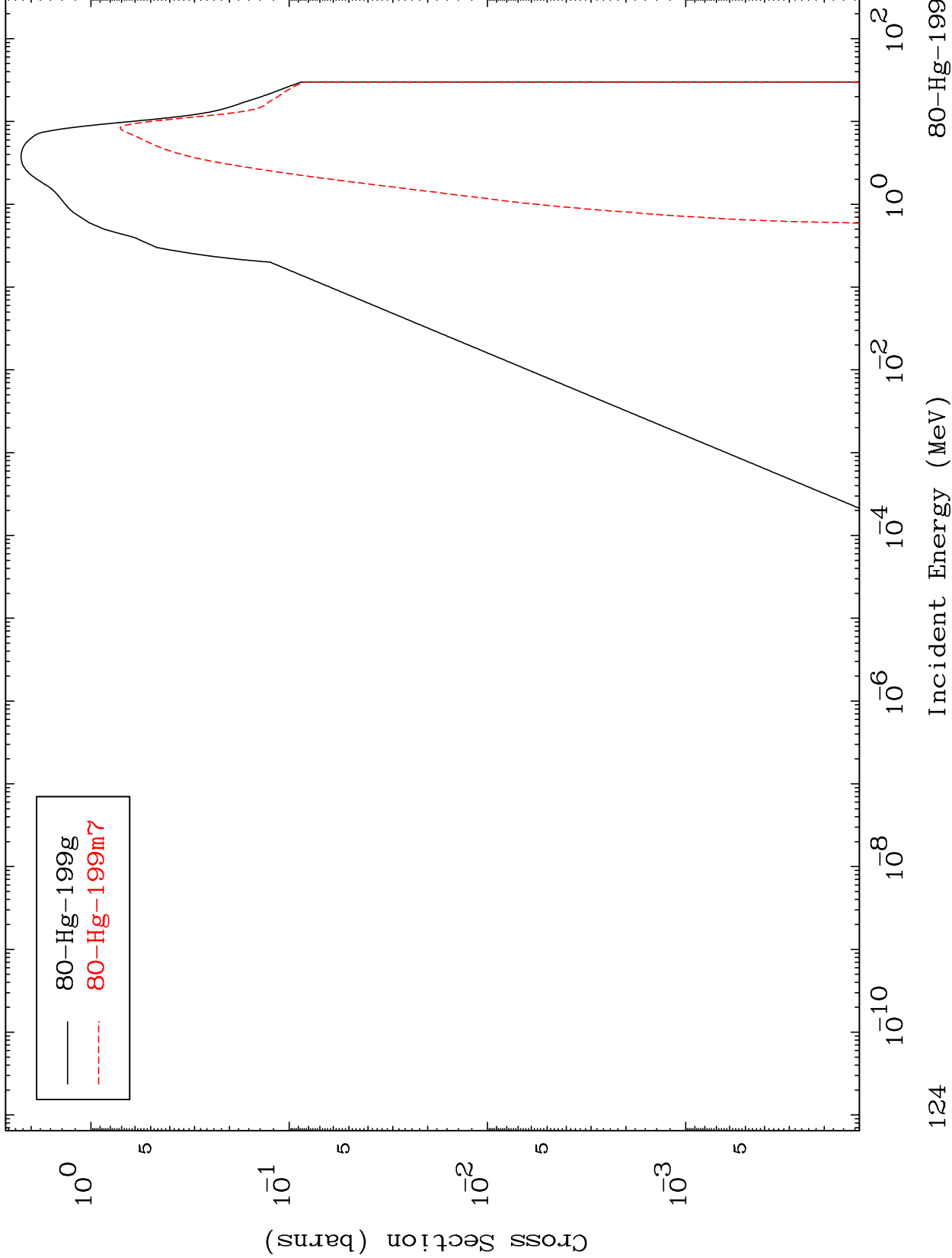


123

MAT 8034

Inelastic  
Radionuclide Production Cross Section

80-Hg-199



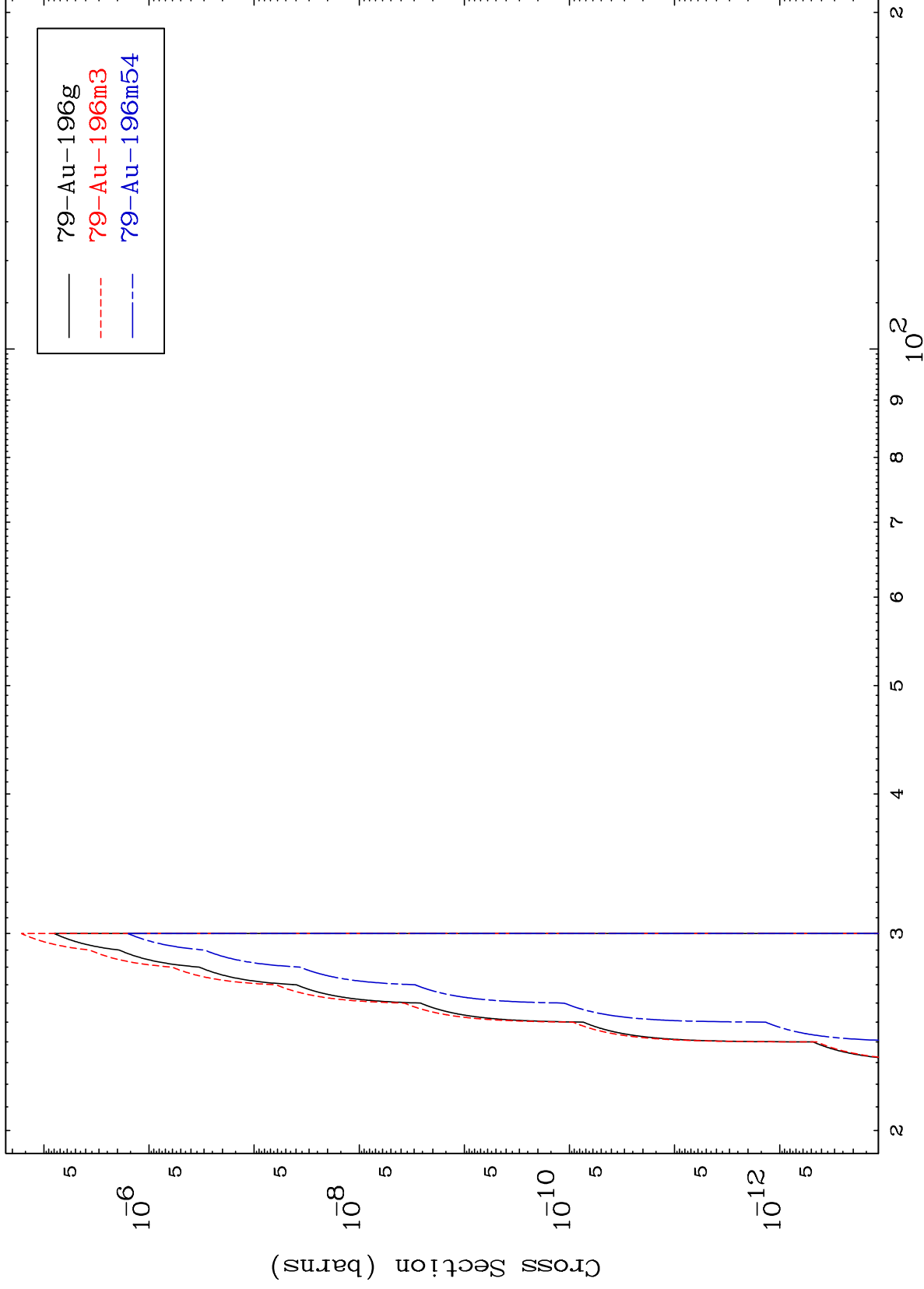
80-Hg-199g  
80-Hg-199m7

MAT 8034

(n,2n) d

80-Hg-199

Radionuclide Production Cross Section



125

Incident Energy (MeV)

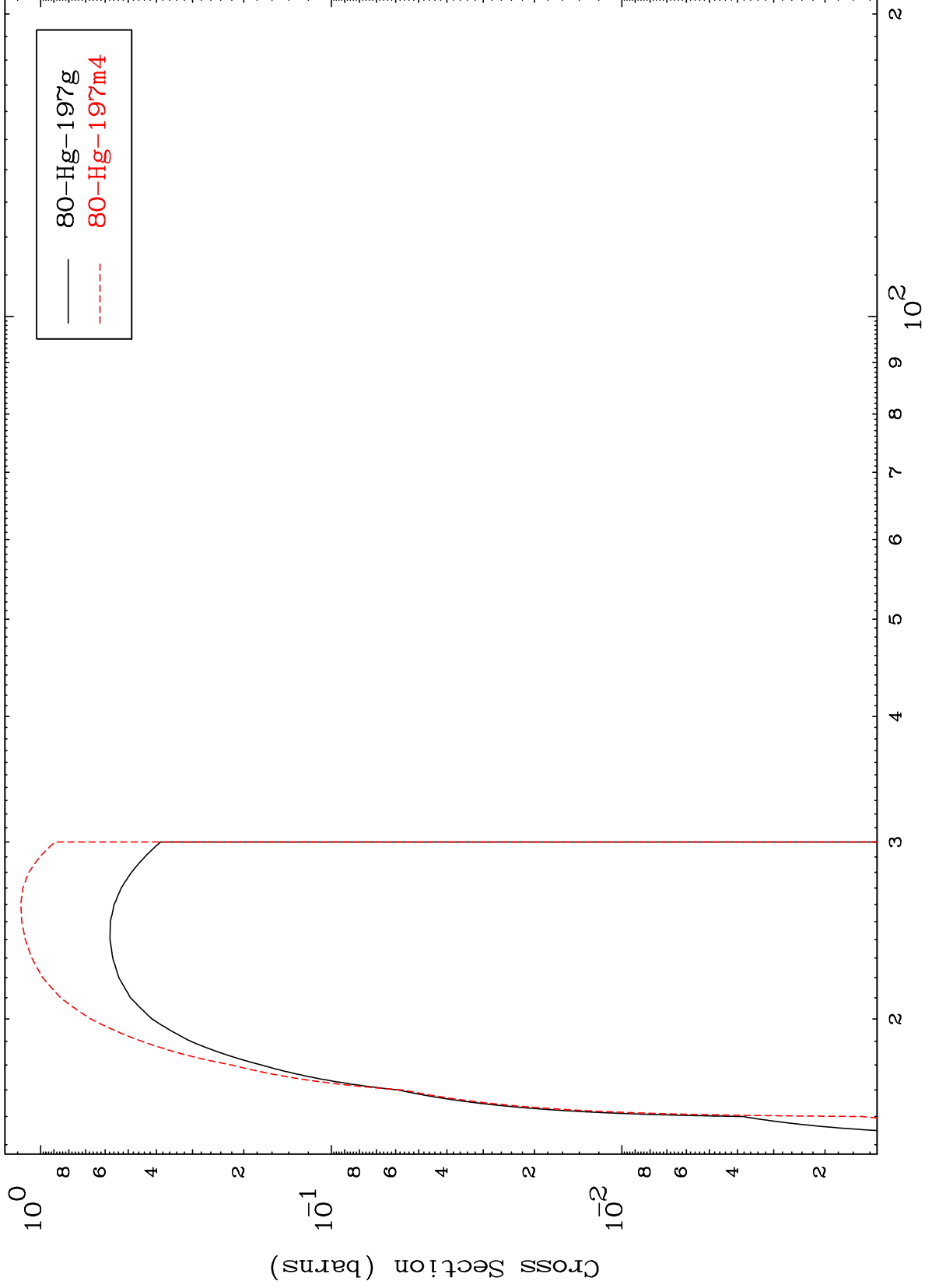
80-Hg-199

MAT 8034

(n,3n)

80-Hg-199

Radionuclide Production Cross Section



126

Incident Energy (MeV)

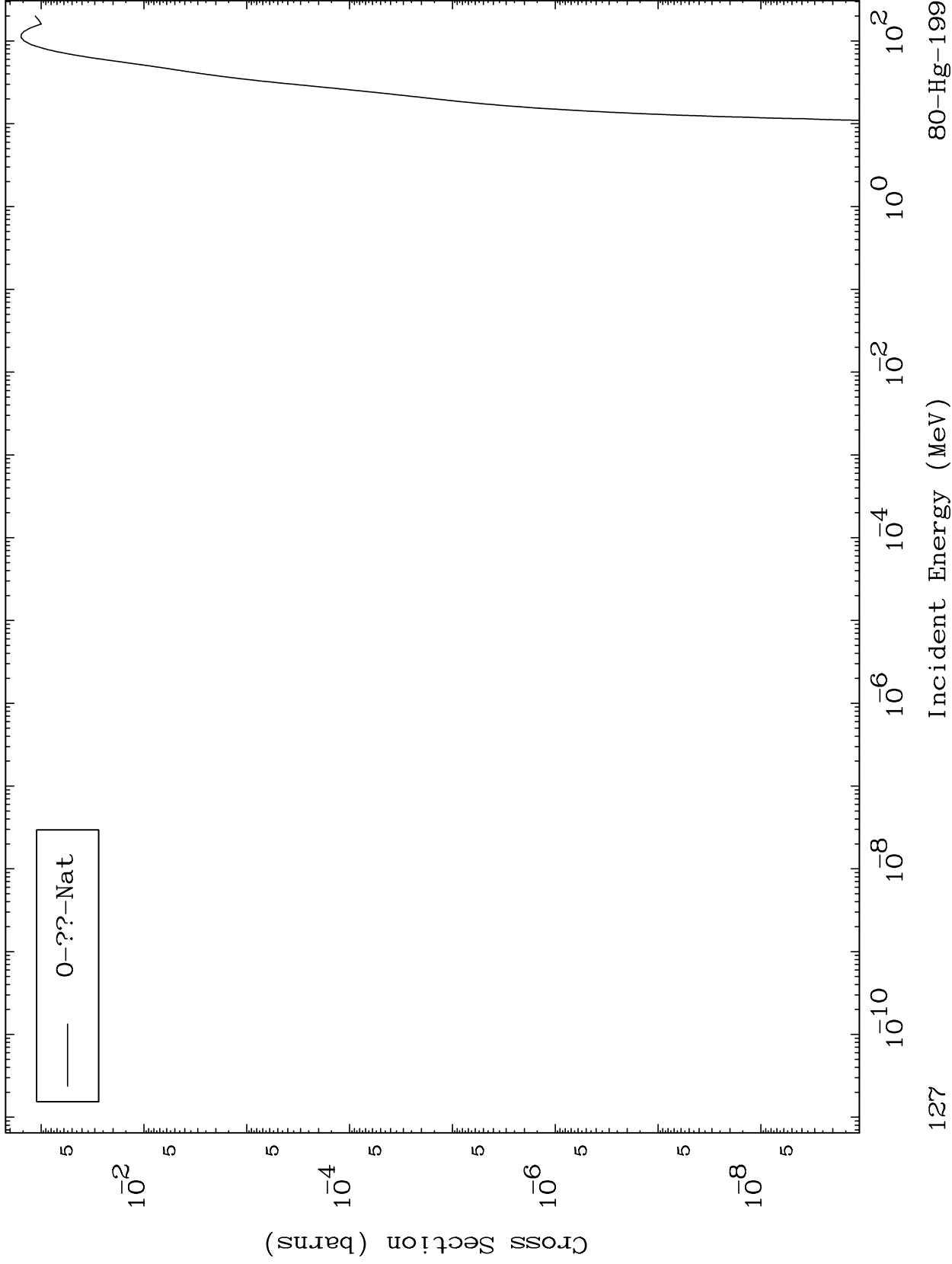
80-Hg-199

MAT 8034

Fission

80-Hg-199

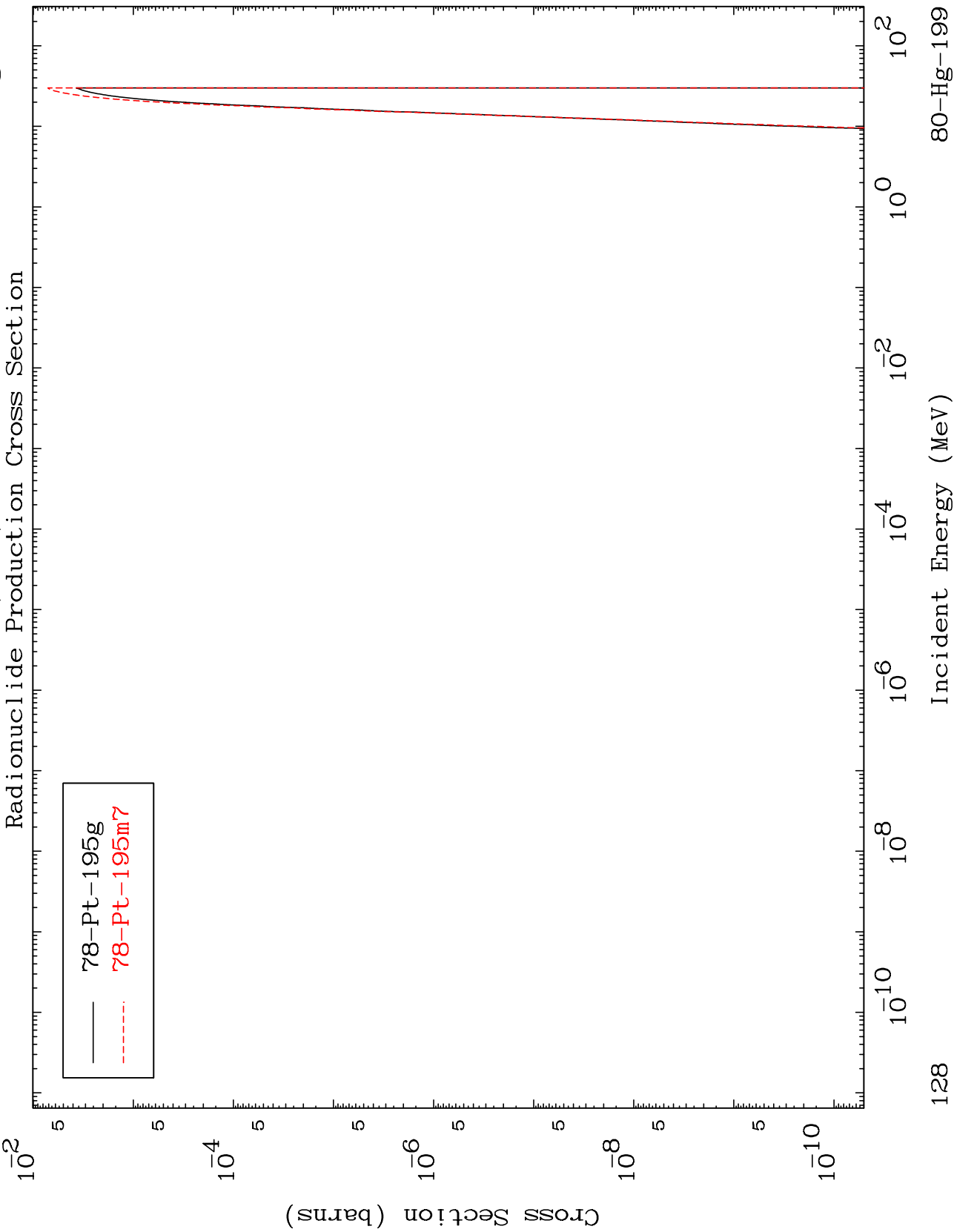
Radionuclide Production Cross Section



MAT 8034

$(n, n') \alpha$

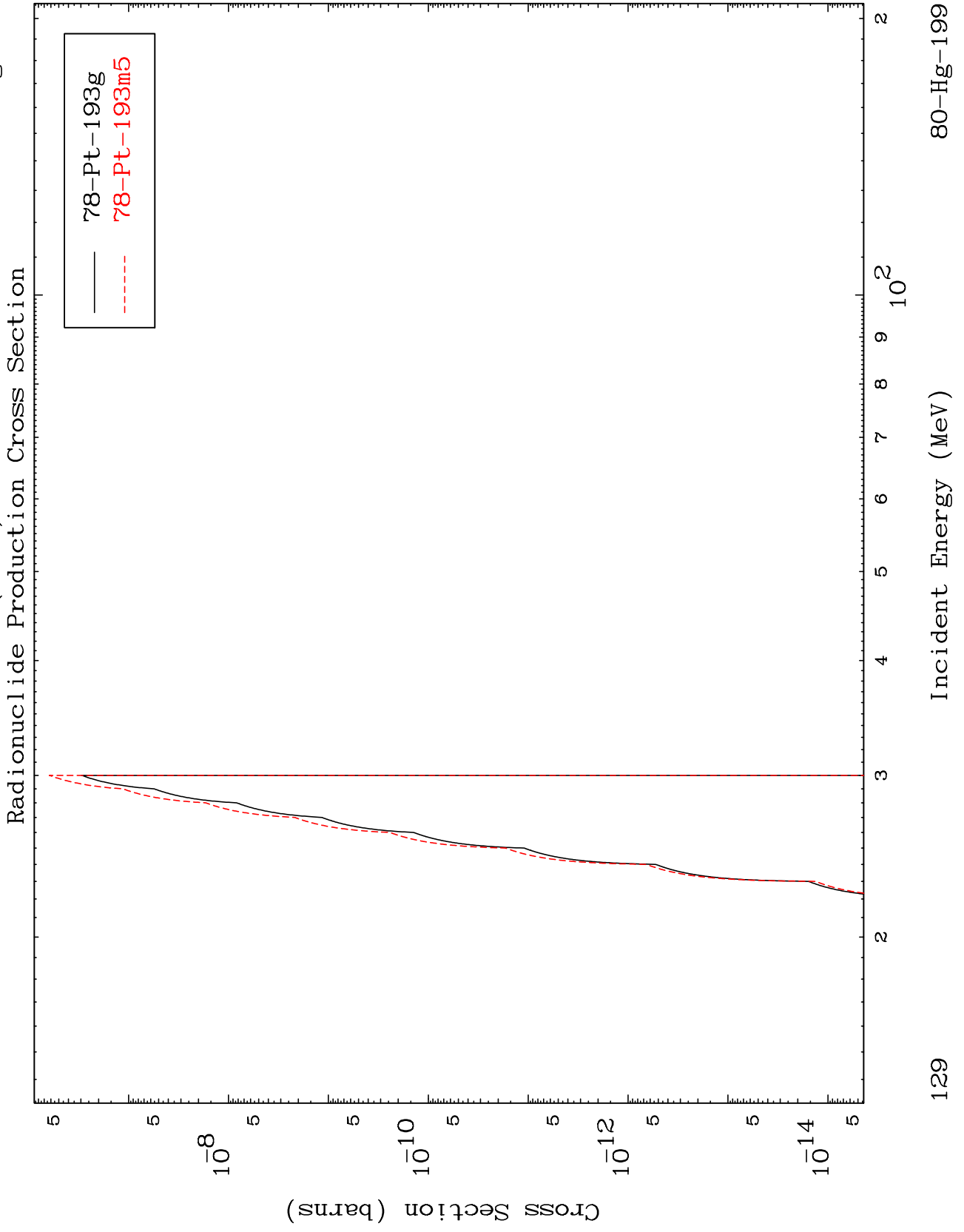
80-Hg-199



MAT 8034

(n,3n)  $\alpha$

80-Hg-199

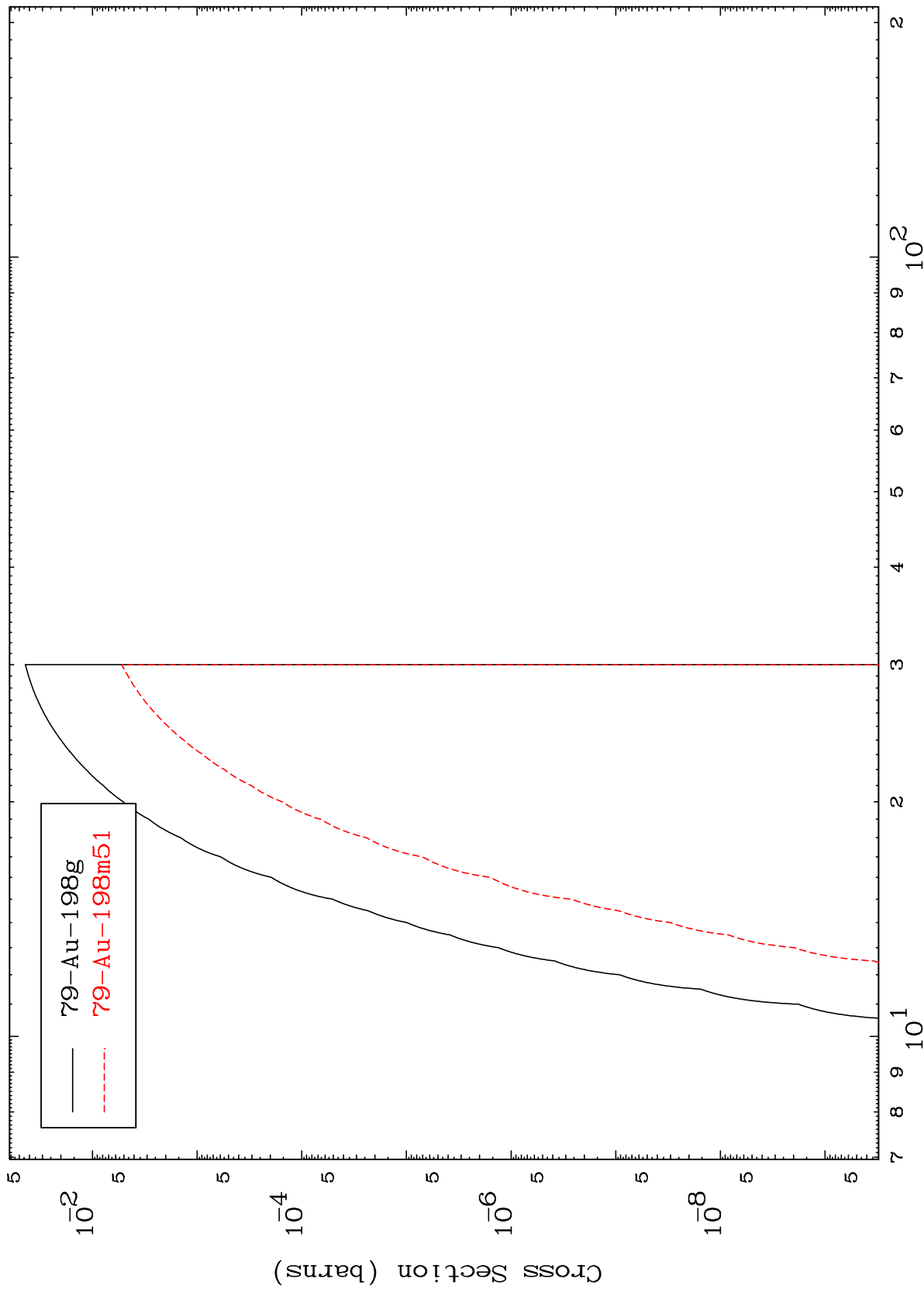


MAT 8034

(n,n') p

80-Hg-199

Radionuclide Production Cross Section



—  $^{79}\text{Au-198g}$   
- - -  $^{79}\text{Au-198m51}$

130

Incident Energy (MeV)

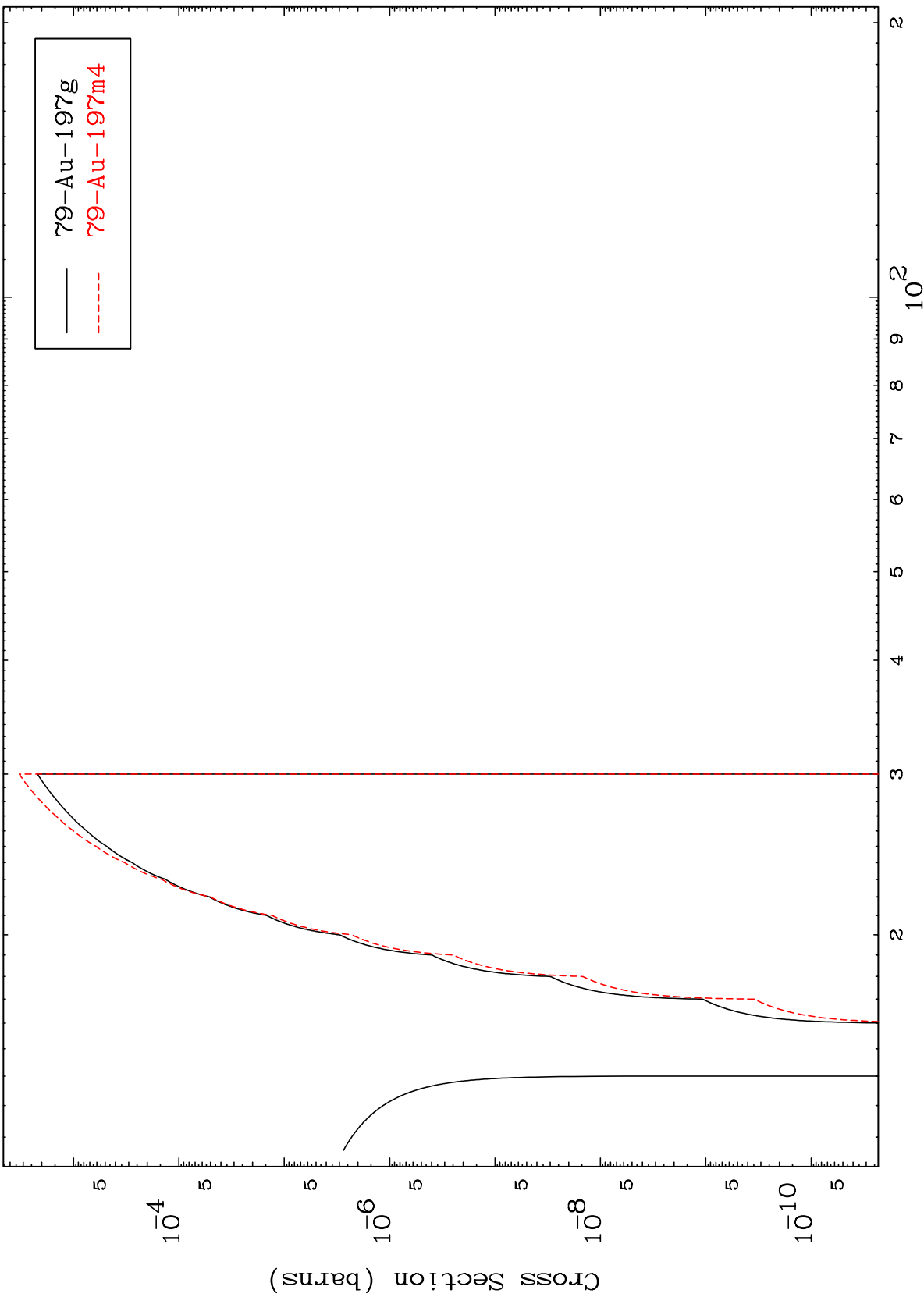
80-Hg-199

MAT 8034

(n,n') d

80-Hg-199

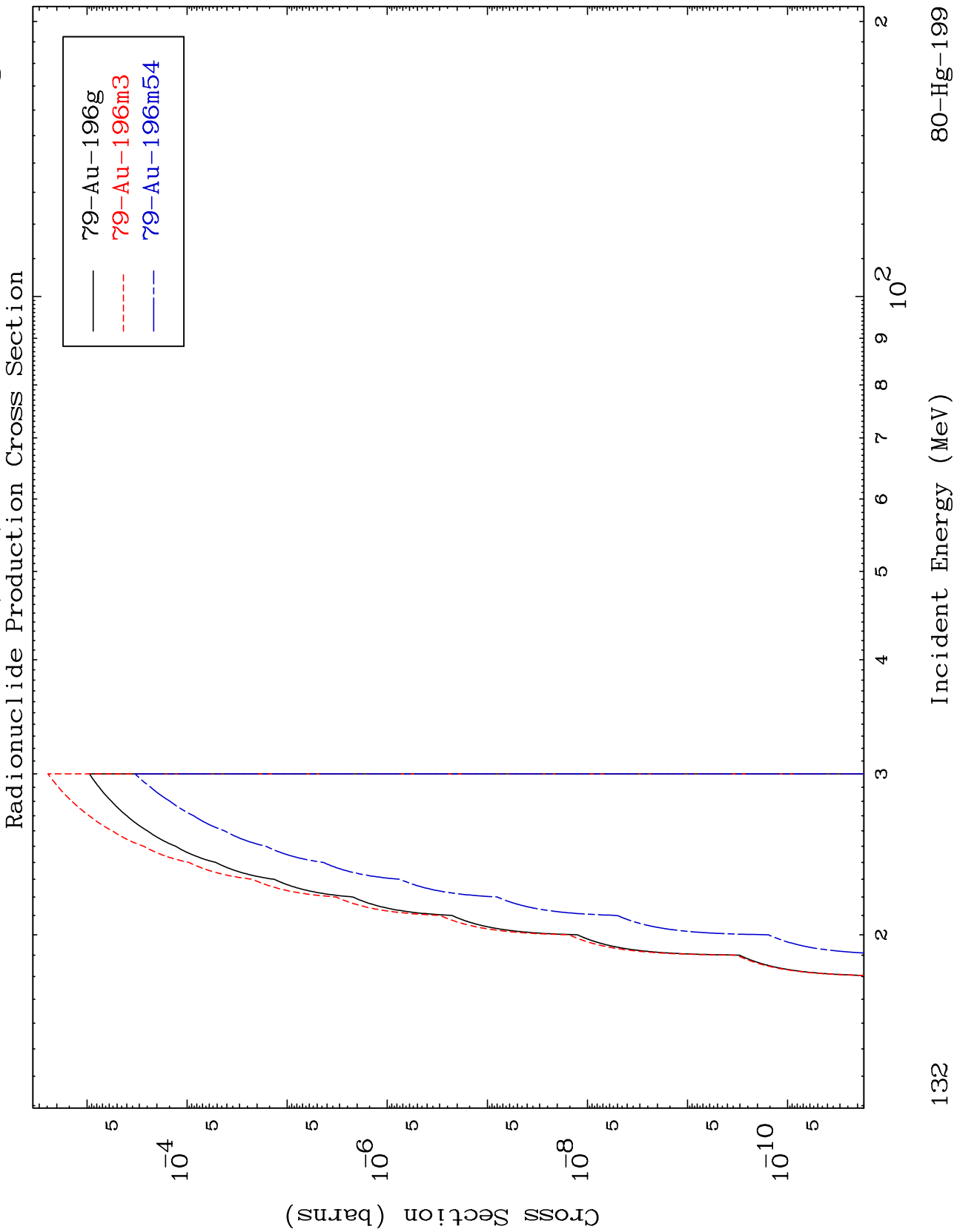
Radionuclide Production Cross Section



131

Incident Energy (MeV)

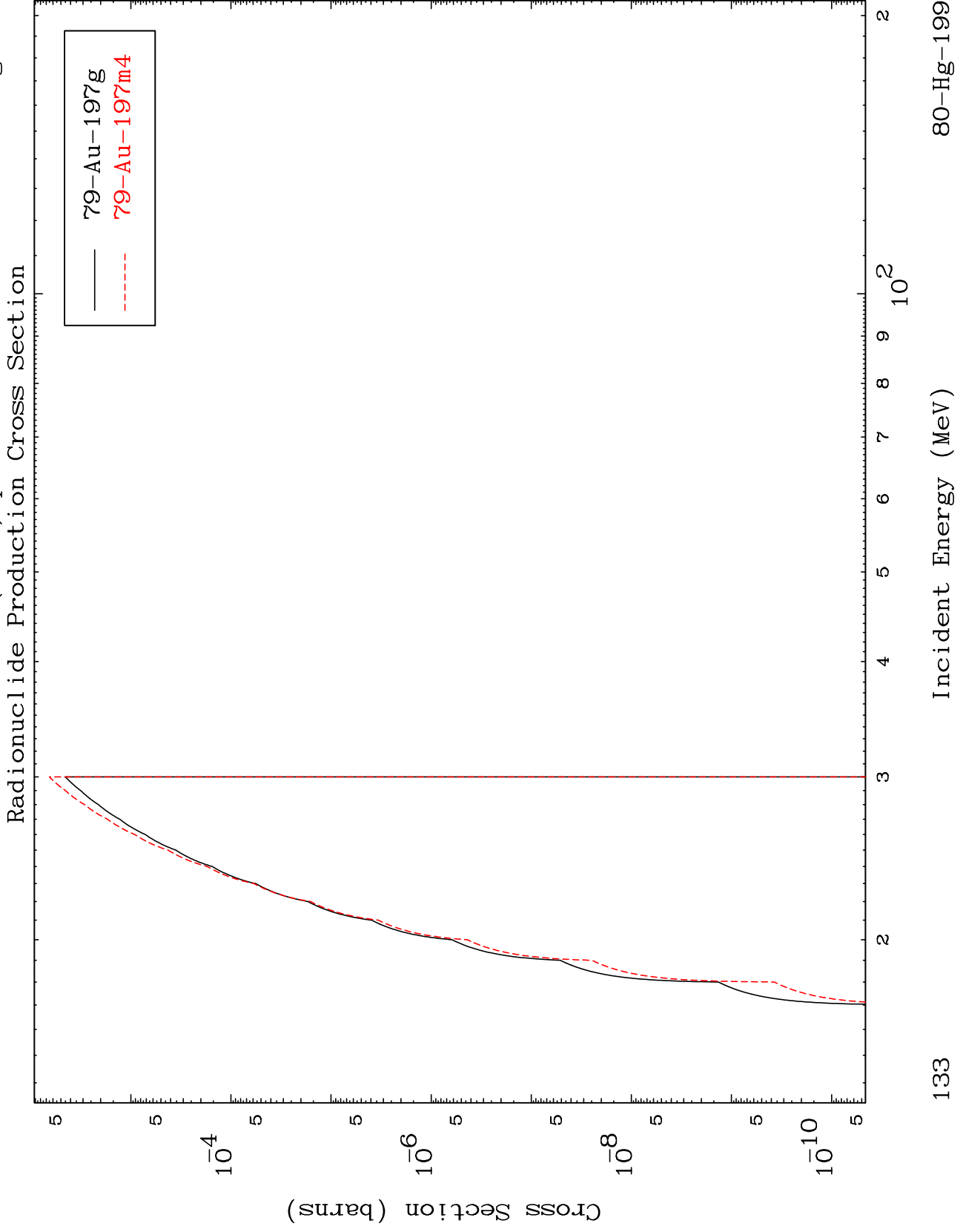
80-Hg-199



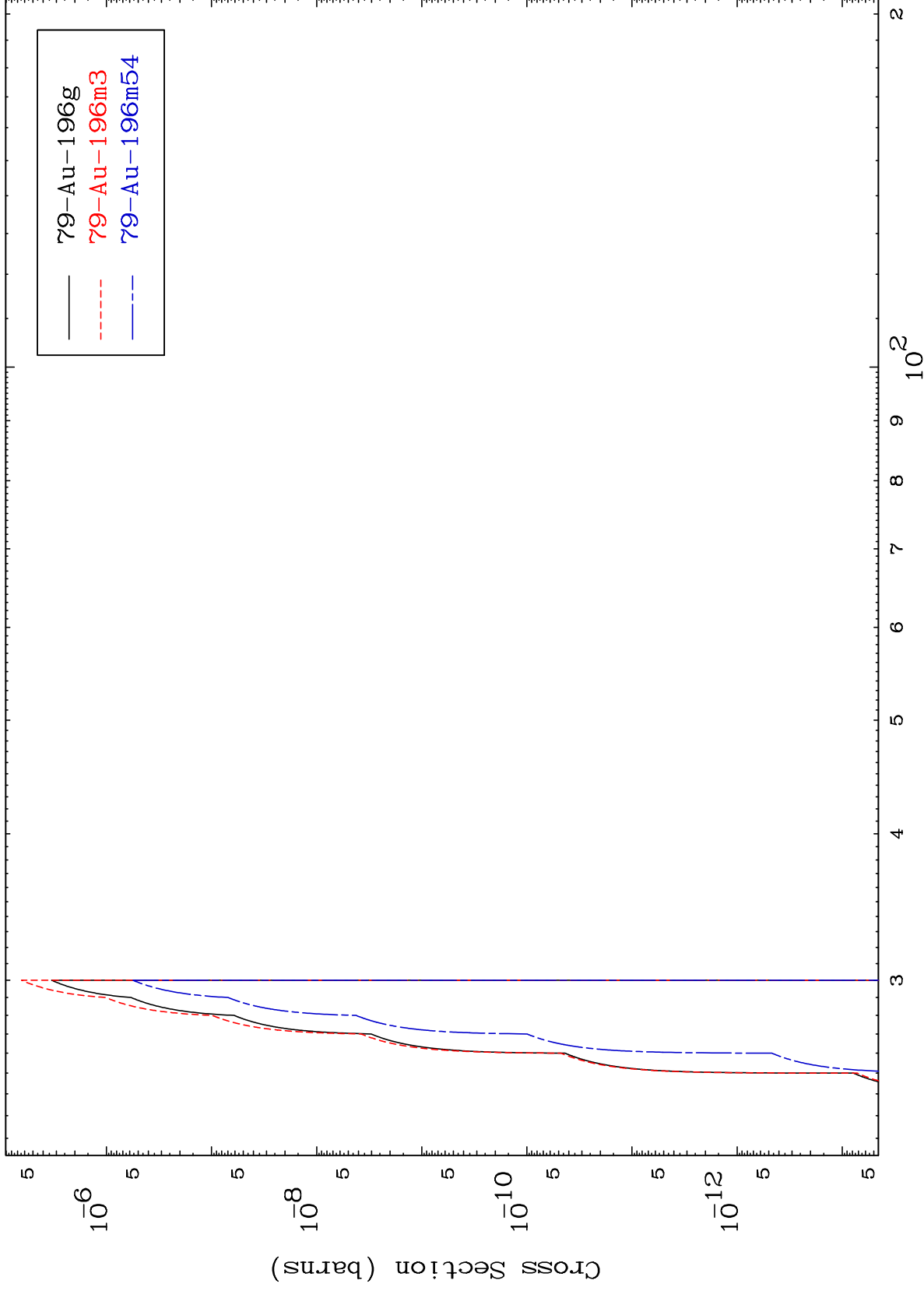
MAT 8034

(n,2n) p

80-Hg-199



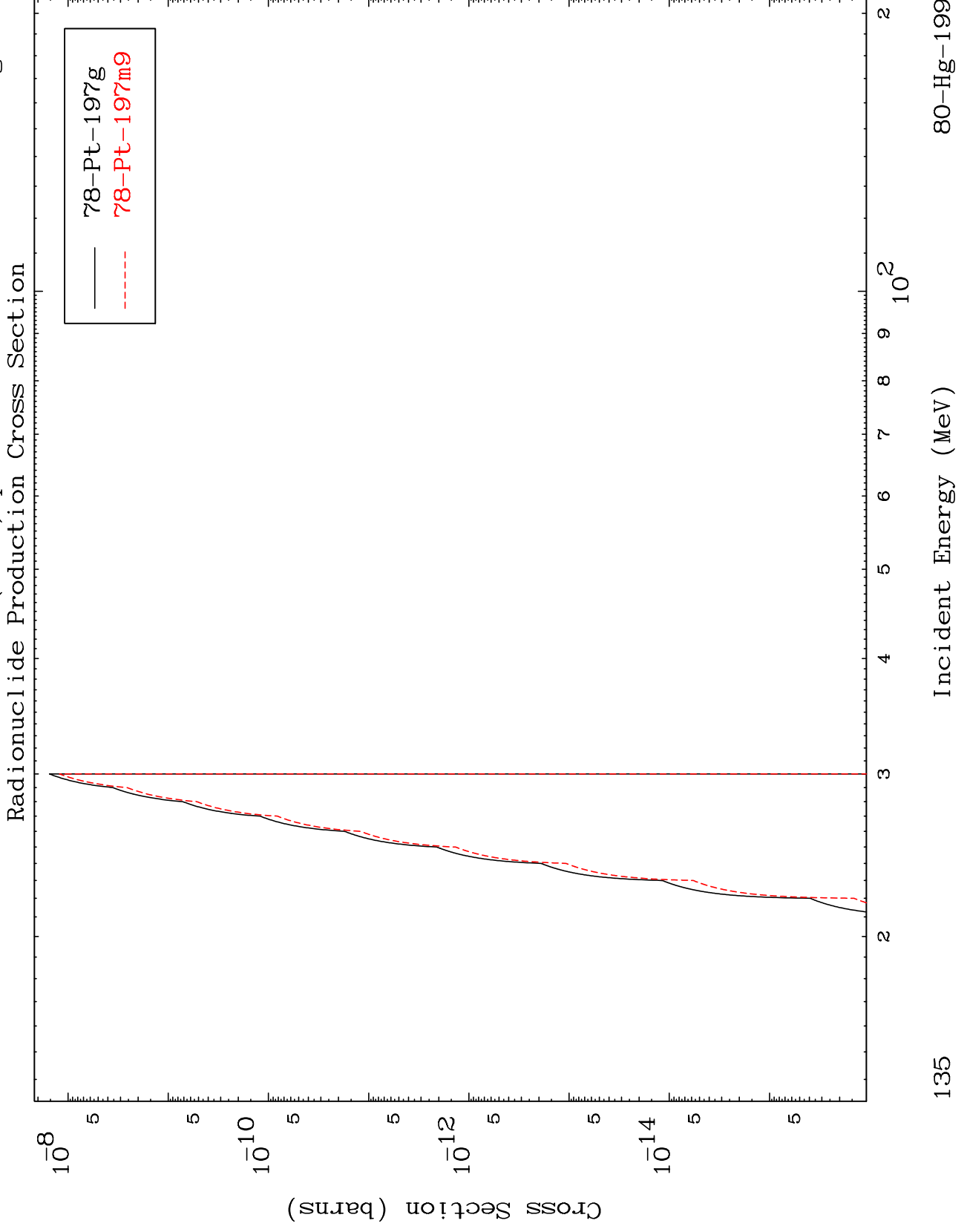
Radionuclide Production Cross Section



MAT 8034

(n,2n) p

80-Hg-199



135

Incident Energy (MeV)

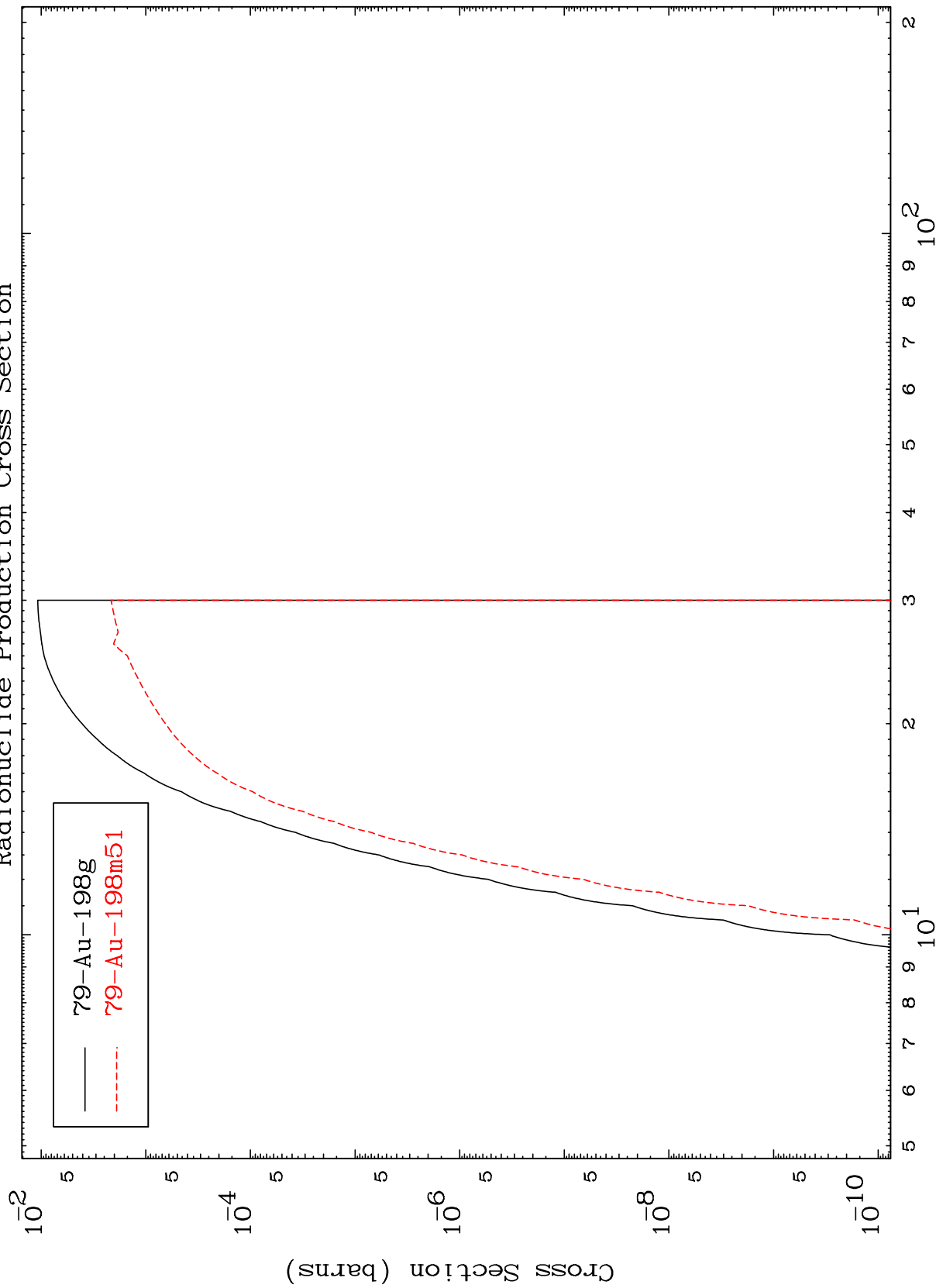
80-Hg-199

MAT 8034

(n,d)

80-Hg-199

Radionuclide Production Cross Section



Incident Energy (MeV)

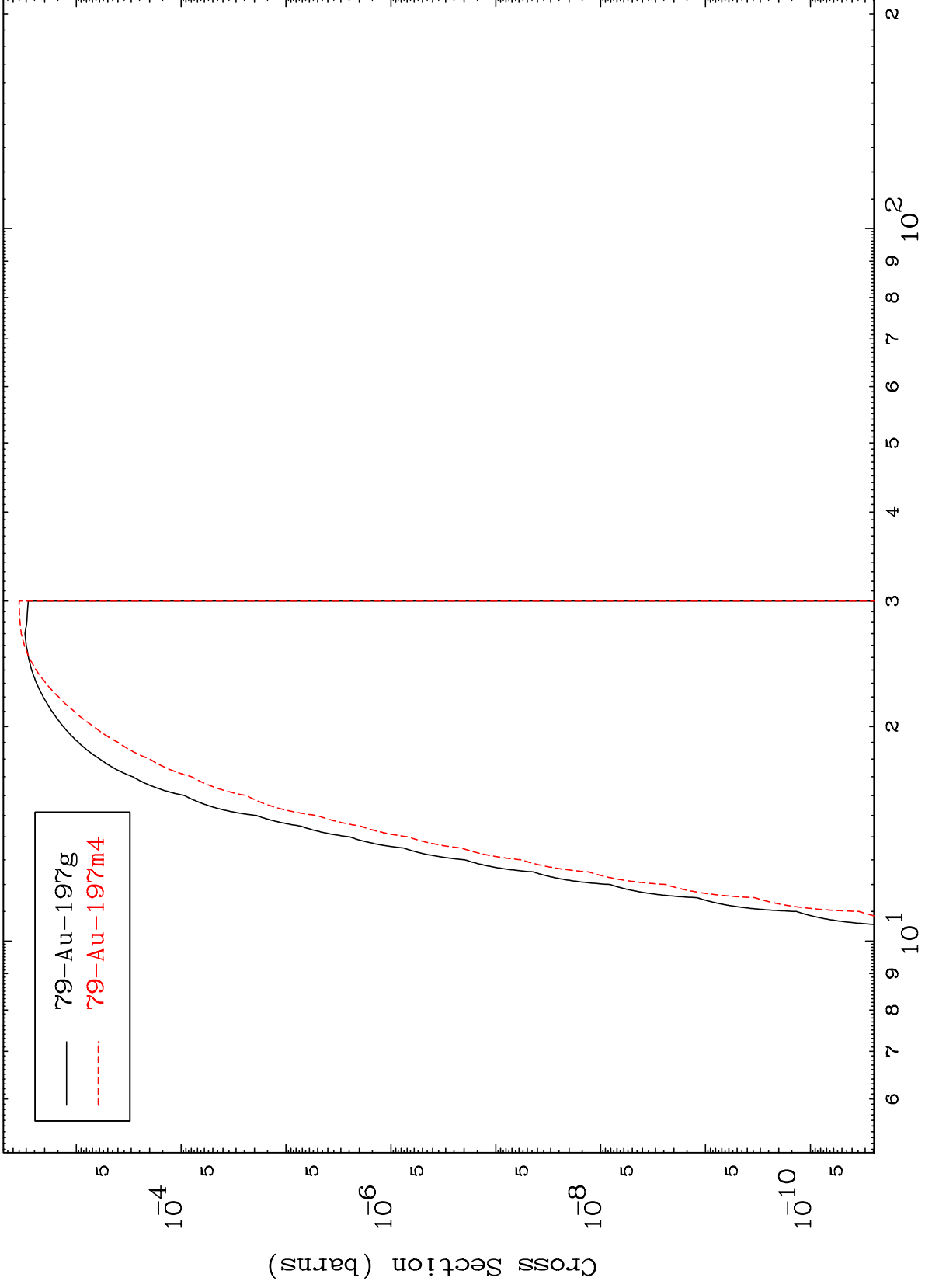
80-Hg-199

136

MAT 8034

80-Hg-199

(n, t)  
Radionuclide Production Cross Section



137

Incident Energy (MeV)

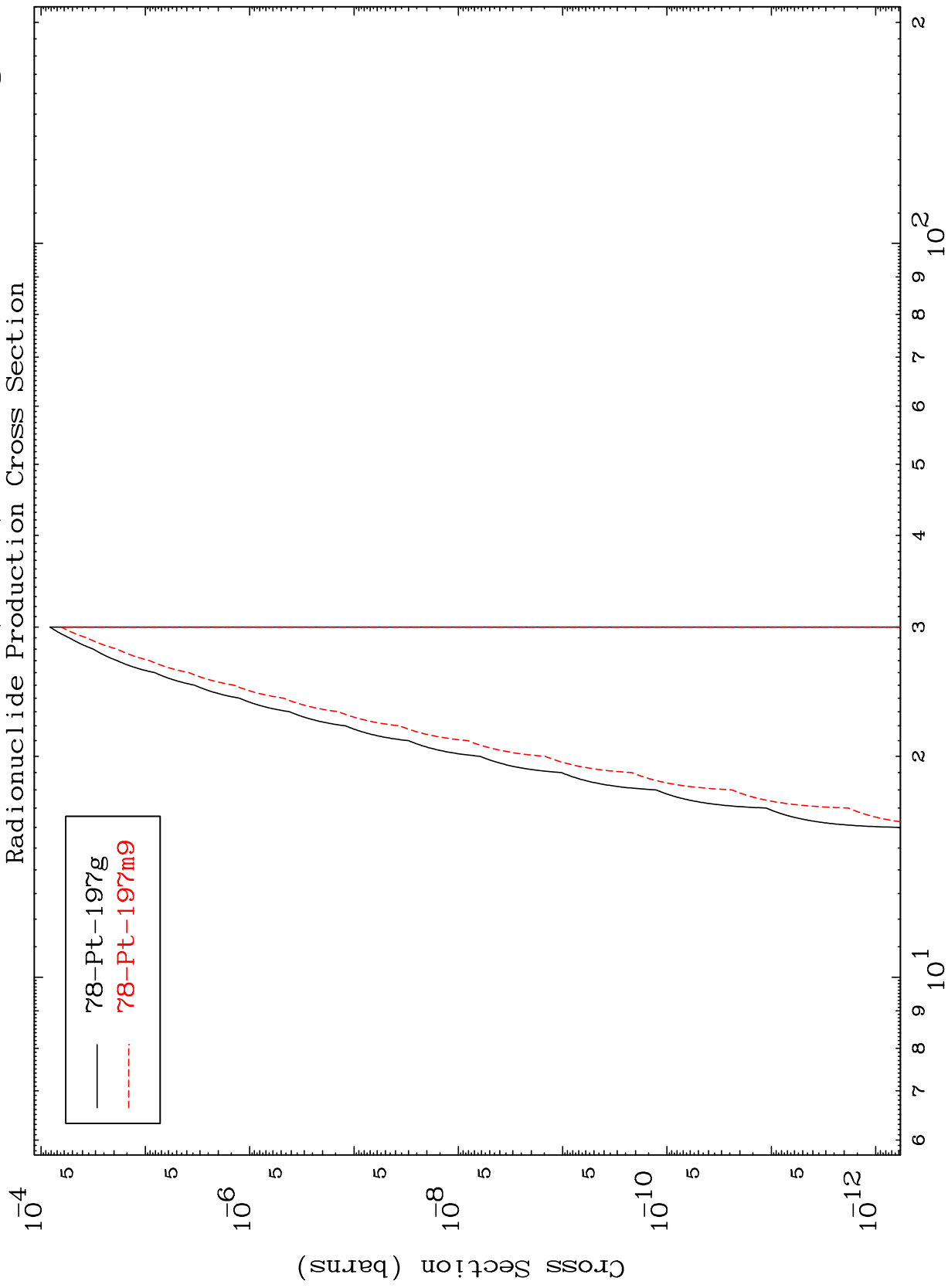
80-Hg-199

MAT 8034

(n,He-3)

80-Hg-199

Radionuclide Production Cross Section

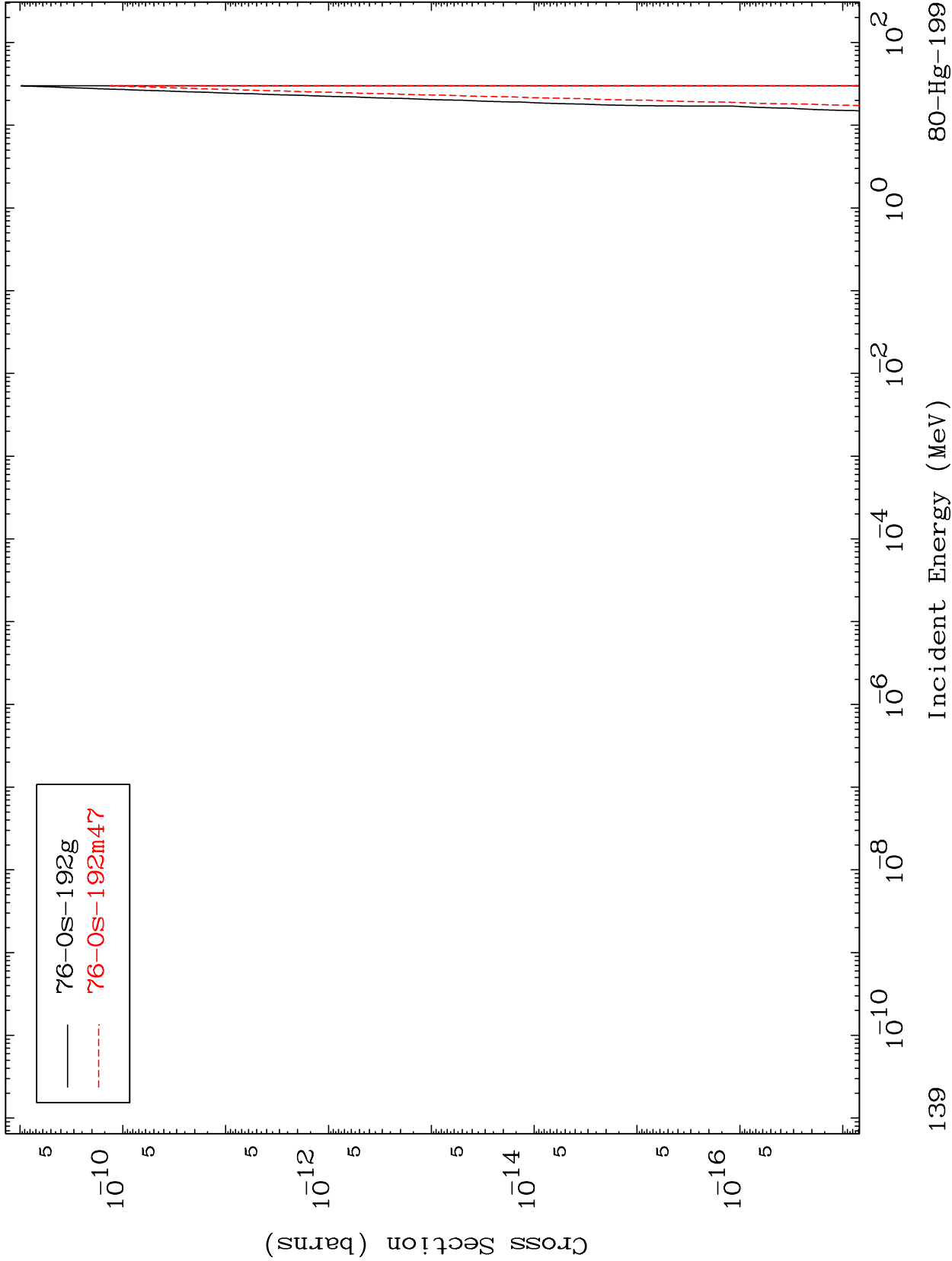


MAT 8034

(n,2α)

80-Hg-199

Radionuclide Production Cross Section

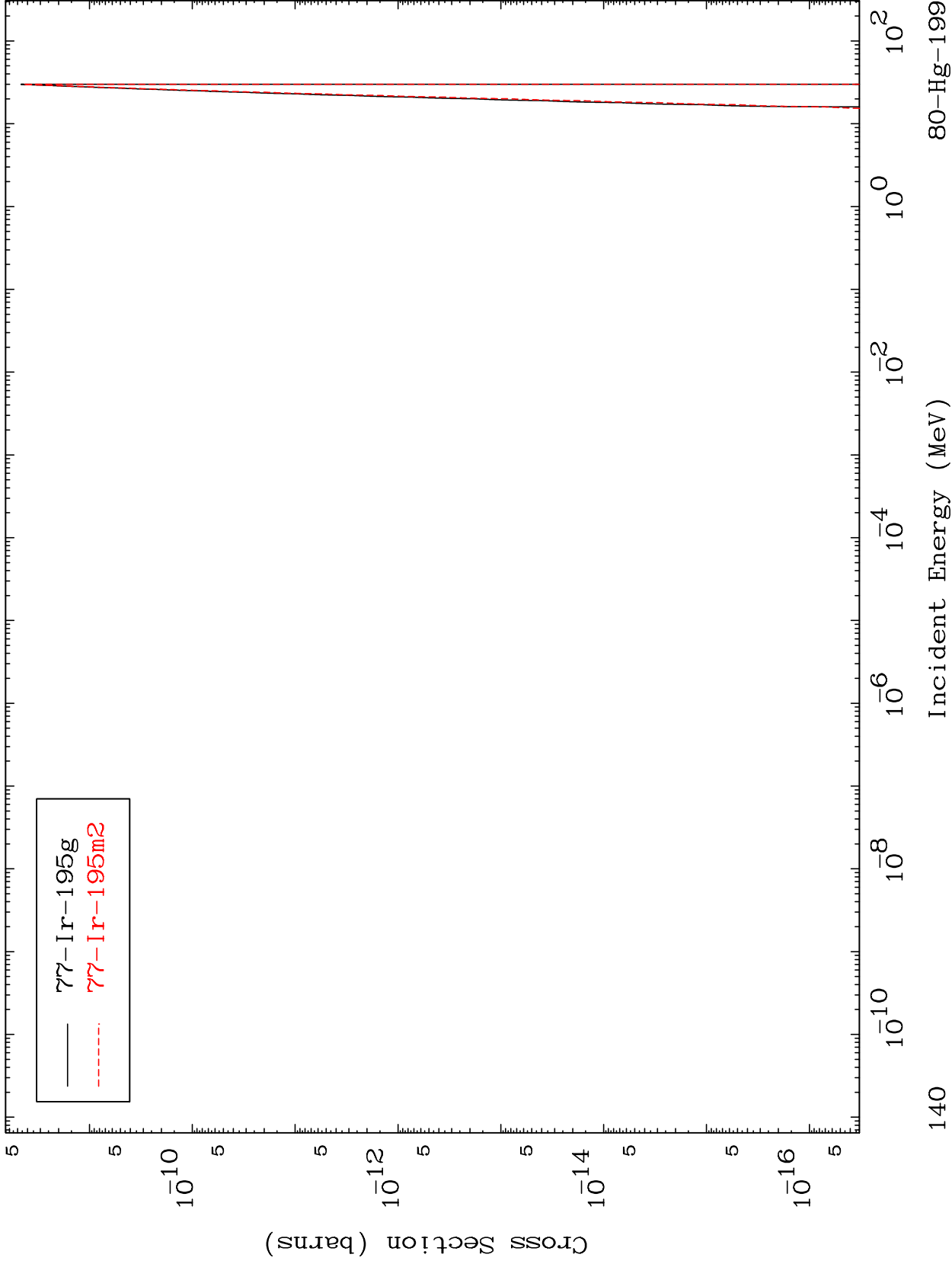


MAT 8034

(n,p)  $\alpha$

80-Hg-199

Radionuclide Production Cross Section



140

Incident Energy (MeV)

80-Hg-199