

Program EVALPLOT
(Version 2015-2)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.

Tele: 925-443-1911

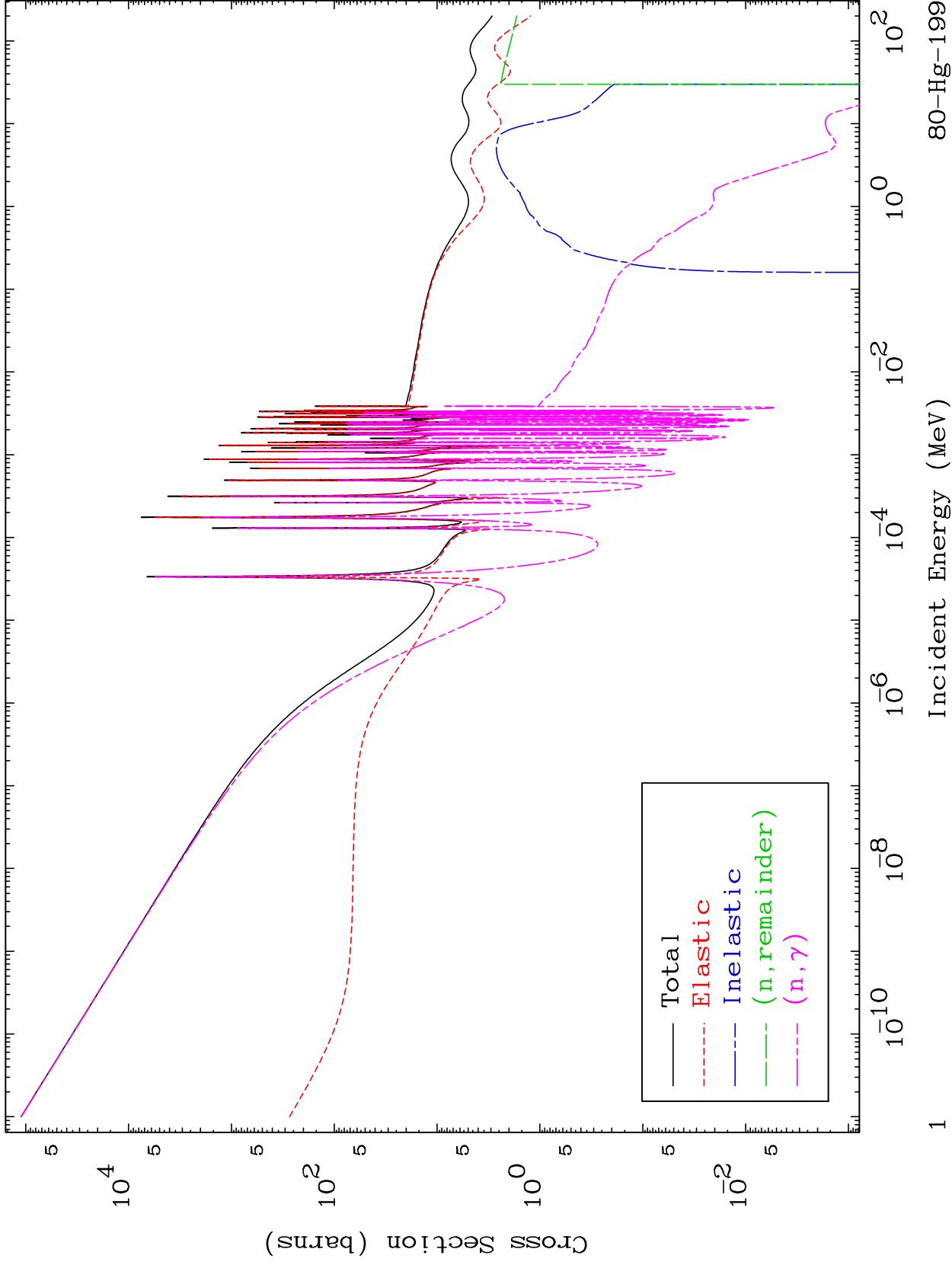
E.Mail:redcullen1@comcast.net
Web:home.comcast.net/~redcullen1

Press Mouse Button to Start

MAT 8034

Major
293 Kelvin Cross Sections

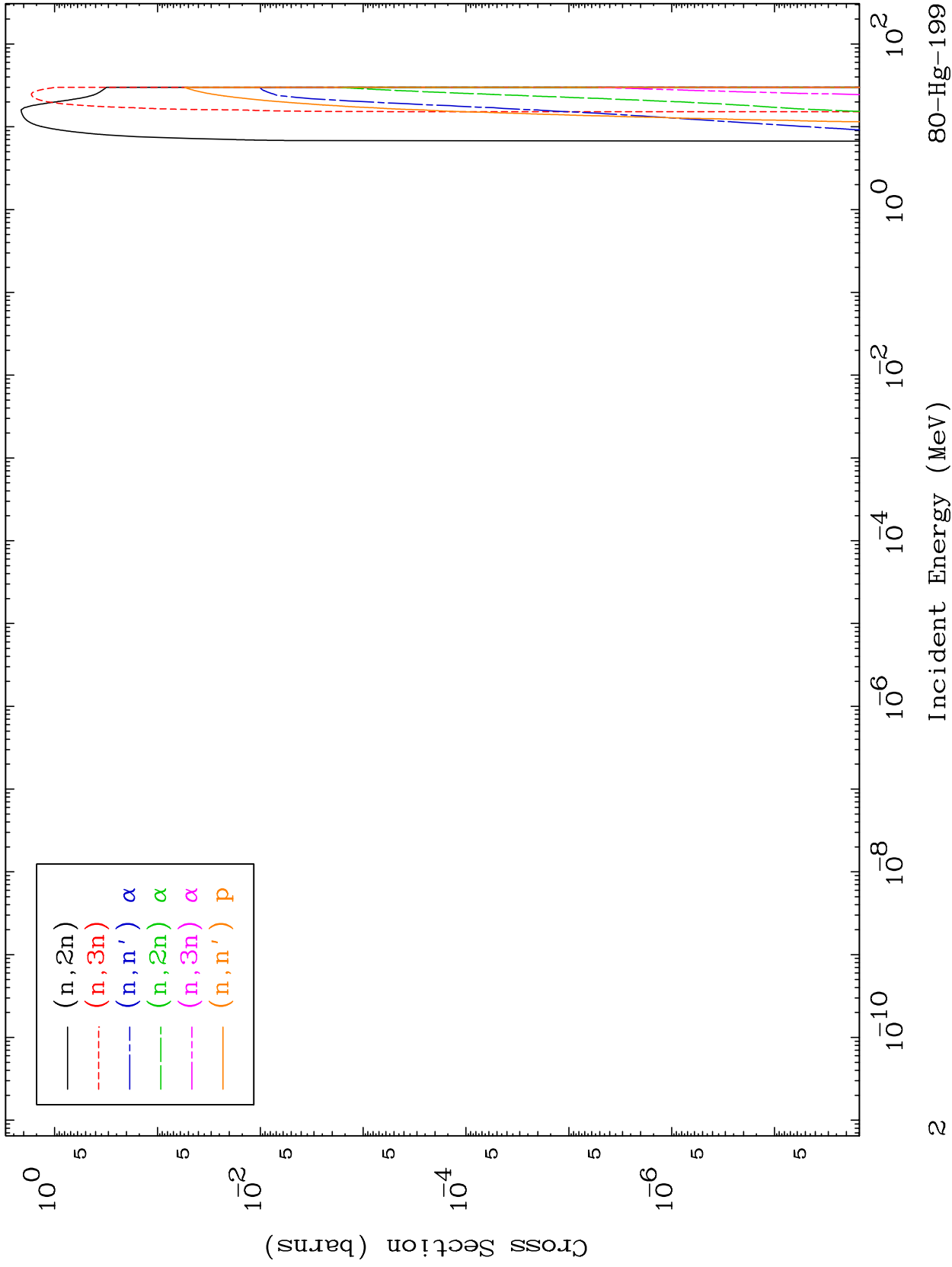
80-Hg-199

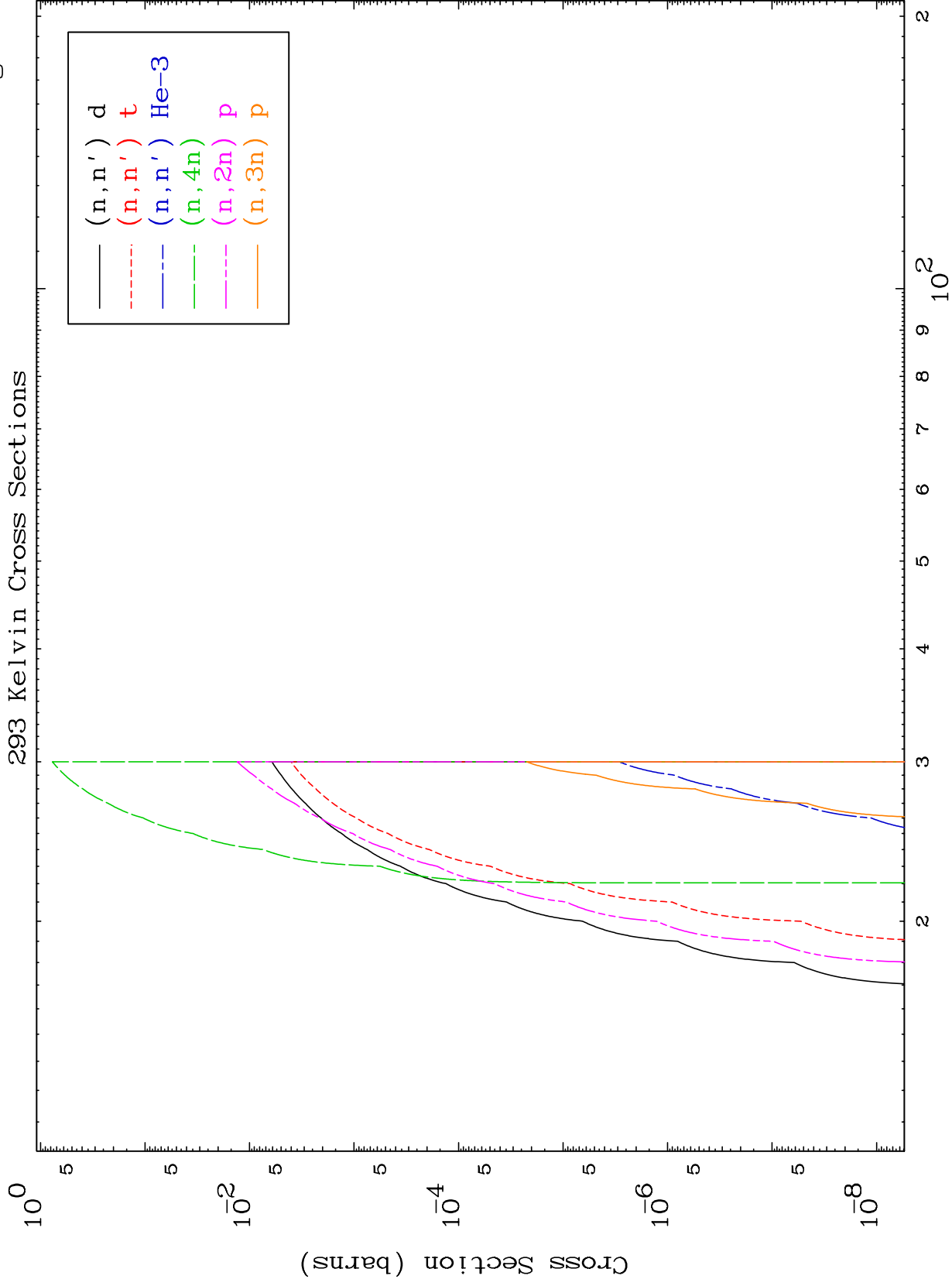


MAT 8034

Neutron Production
293 Kelvin Cross Sections

80-Hg-199

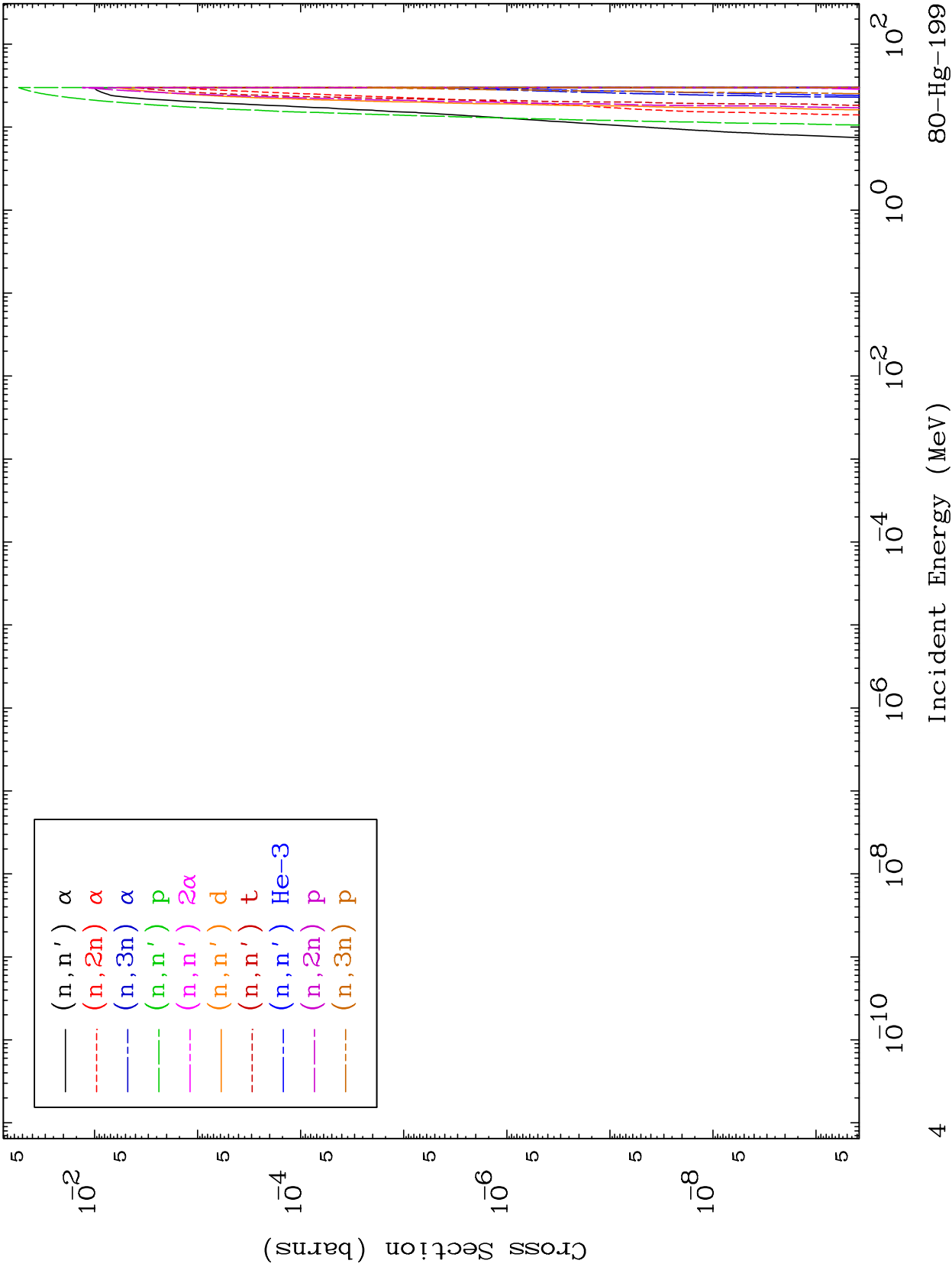




MAT 8034

Charged Particle
293 Kelvin Cross Sections

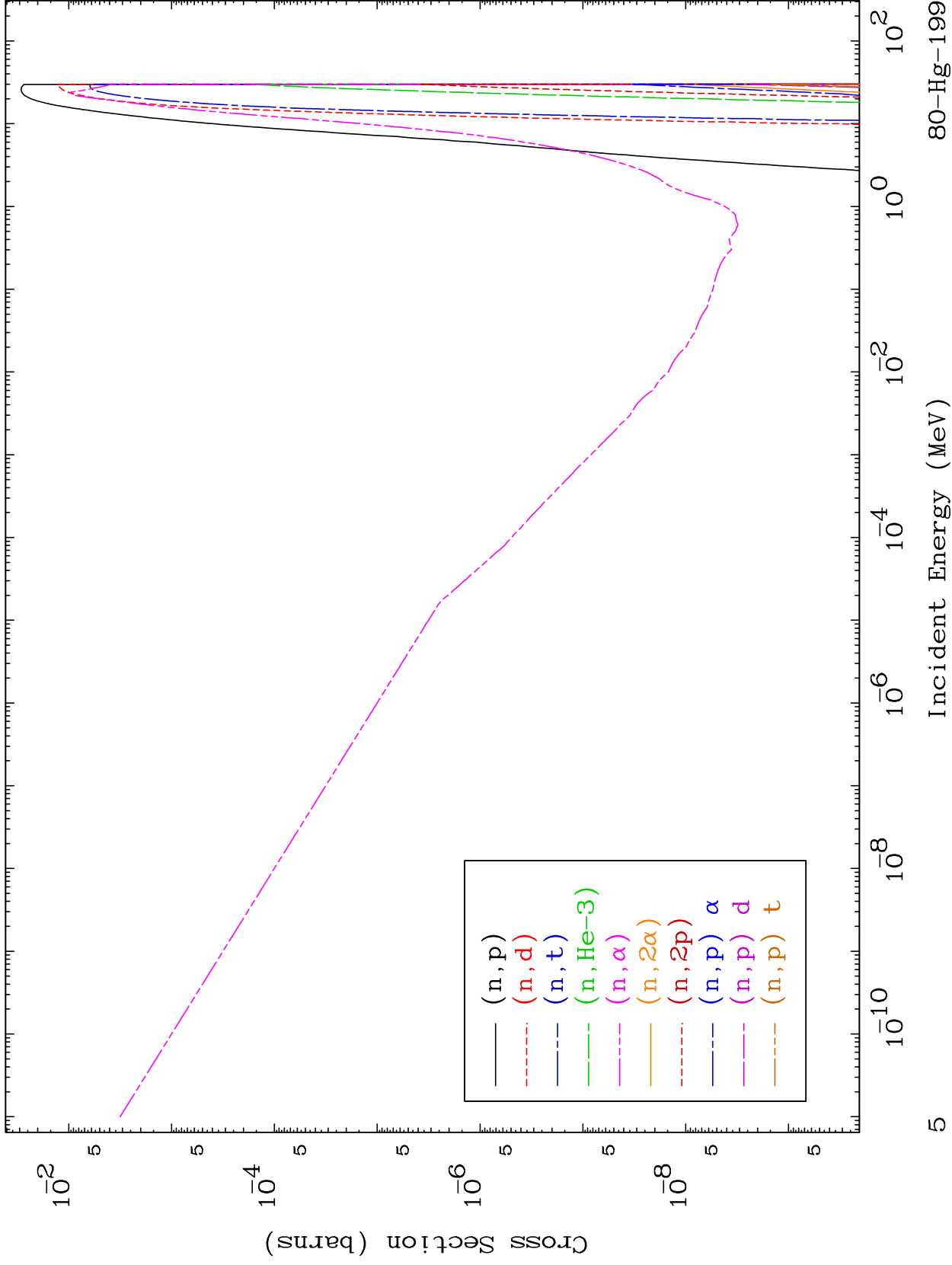
80-Hg-199



MAT 8034

Charged Particle
293 Kelvin Cross Sections

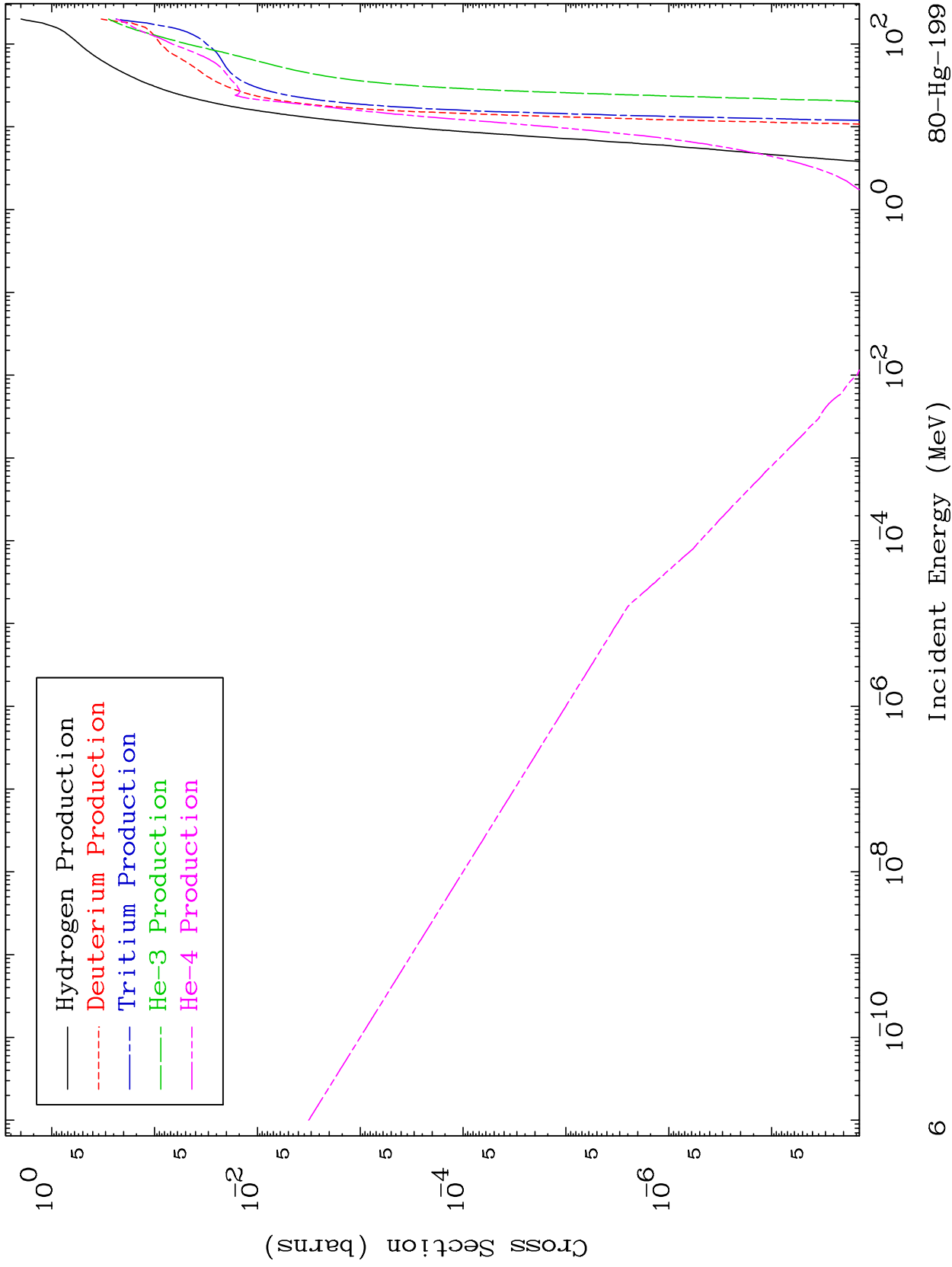
80-Hg-199



MAT 8034

Particle Production
293 Kelvin Cross Sections

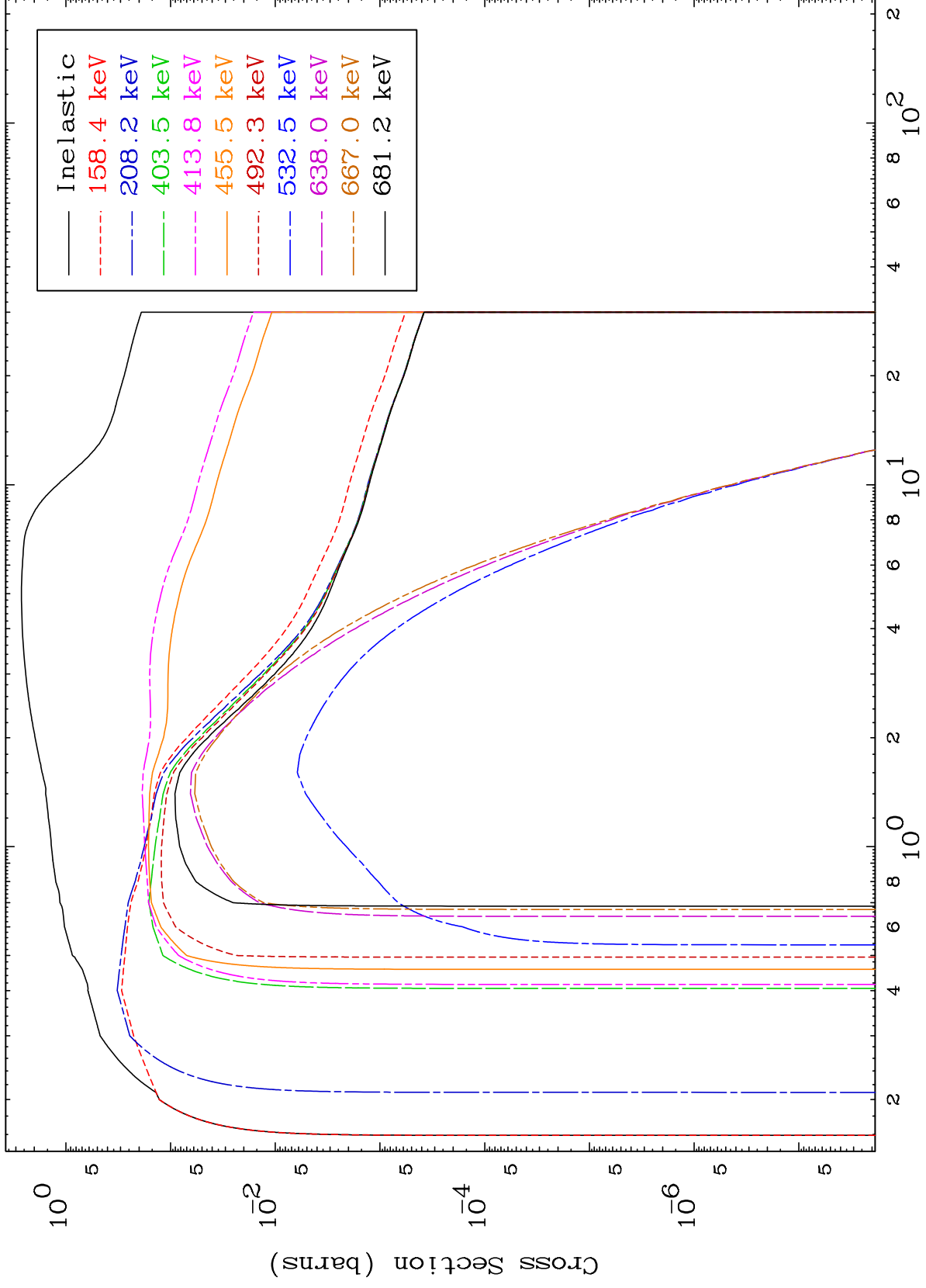
80-Hg-199



MAT 8034

(n,n') Level
293 Kelvin Cross Sections

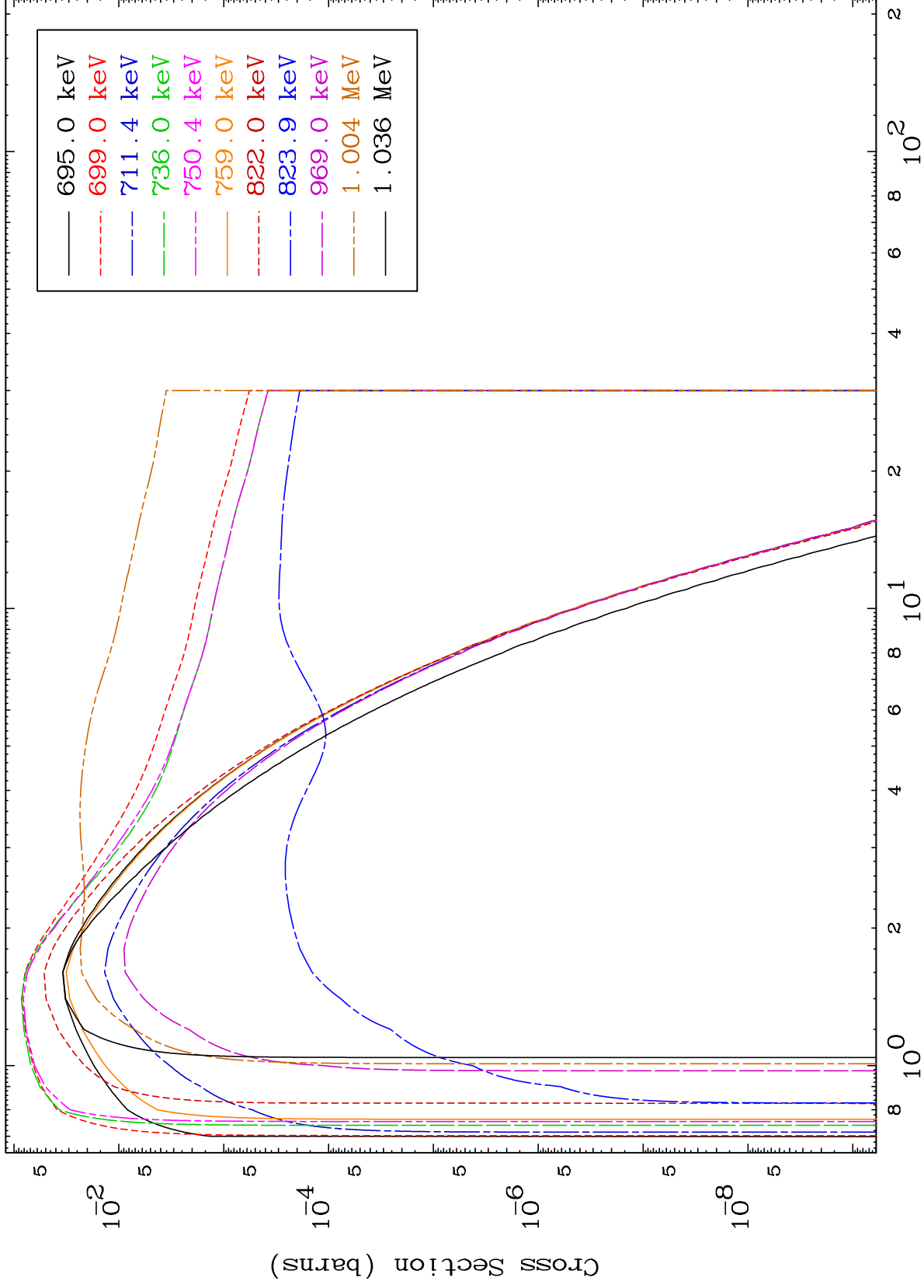
80-Hg-199



MAT 8034

(n,n') Level
293 Kelvin Cross Sections

80-Hg-199



8

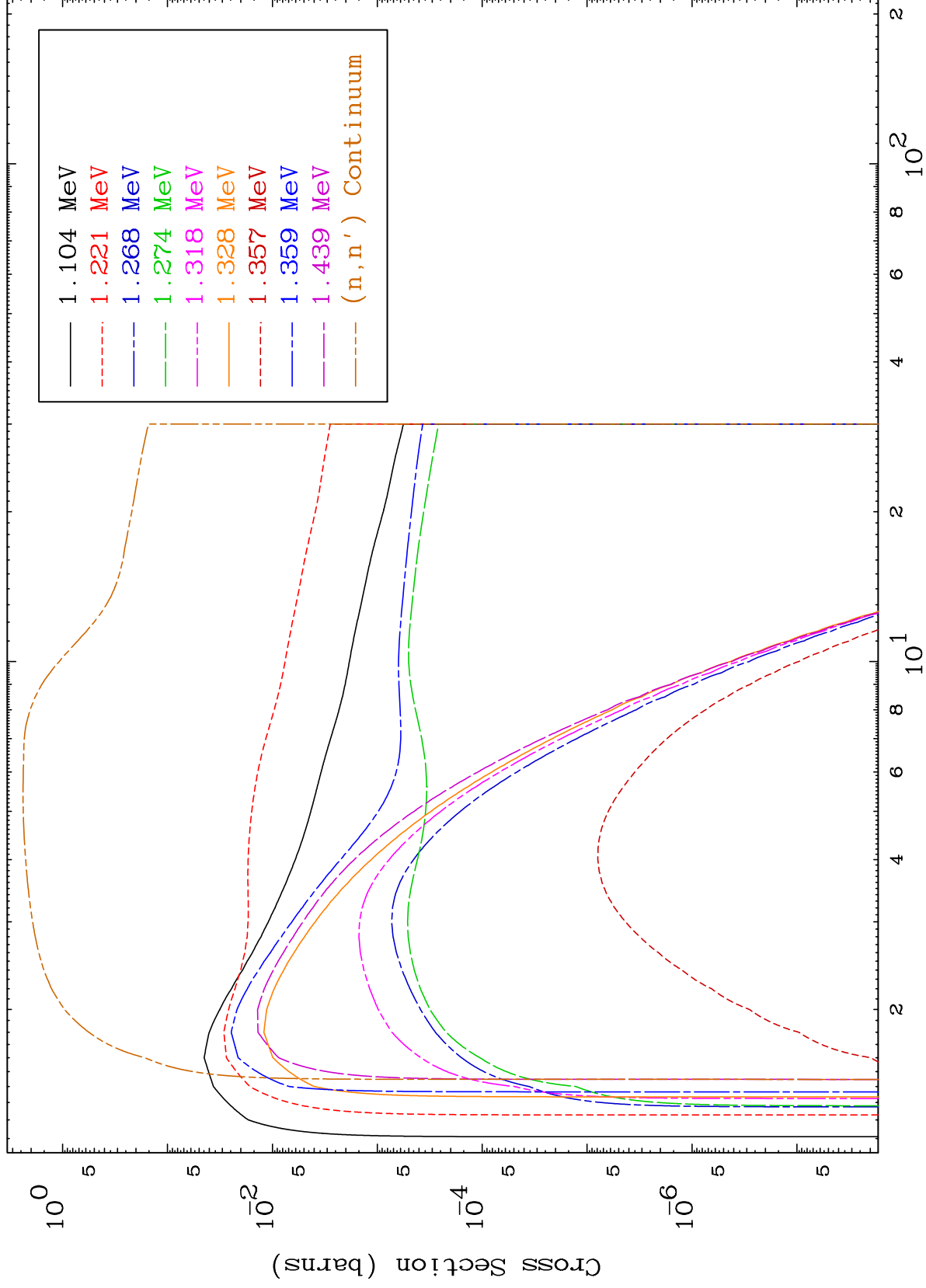
Incident Energy (MeV)

80-Hg-199

MAT 8034

(n,n') Level
293 Kelvin Cross Sections

80-Hg-199



9

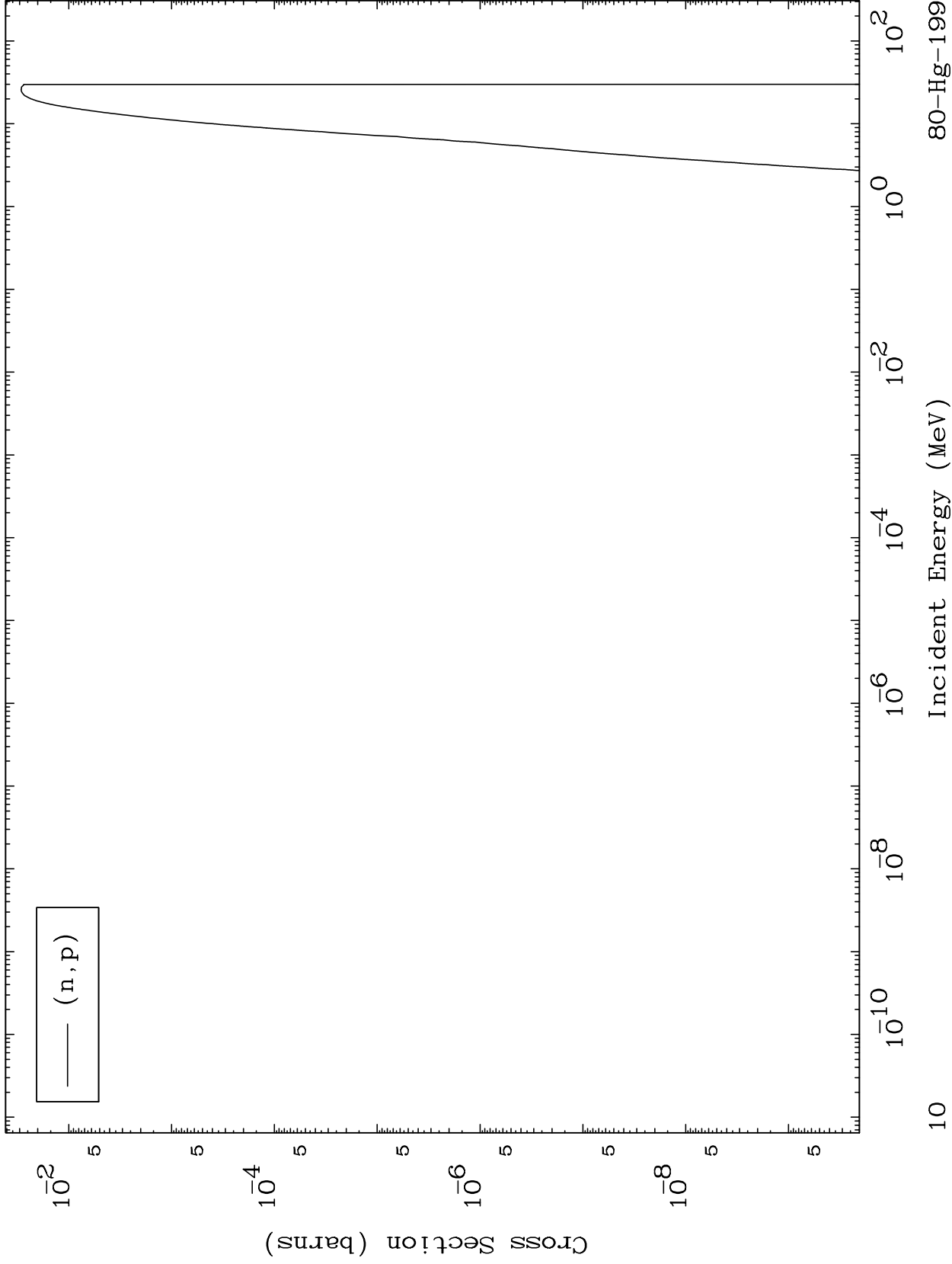
Incident Energy (MeV)

80-Hg-199

MAT 8034

(n,p) Levels
293 Kelvin Cross Sections

80-Hg-199



10

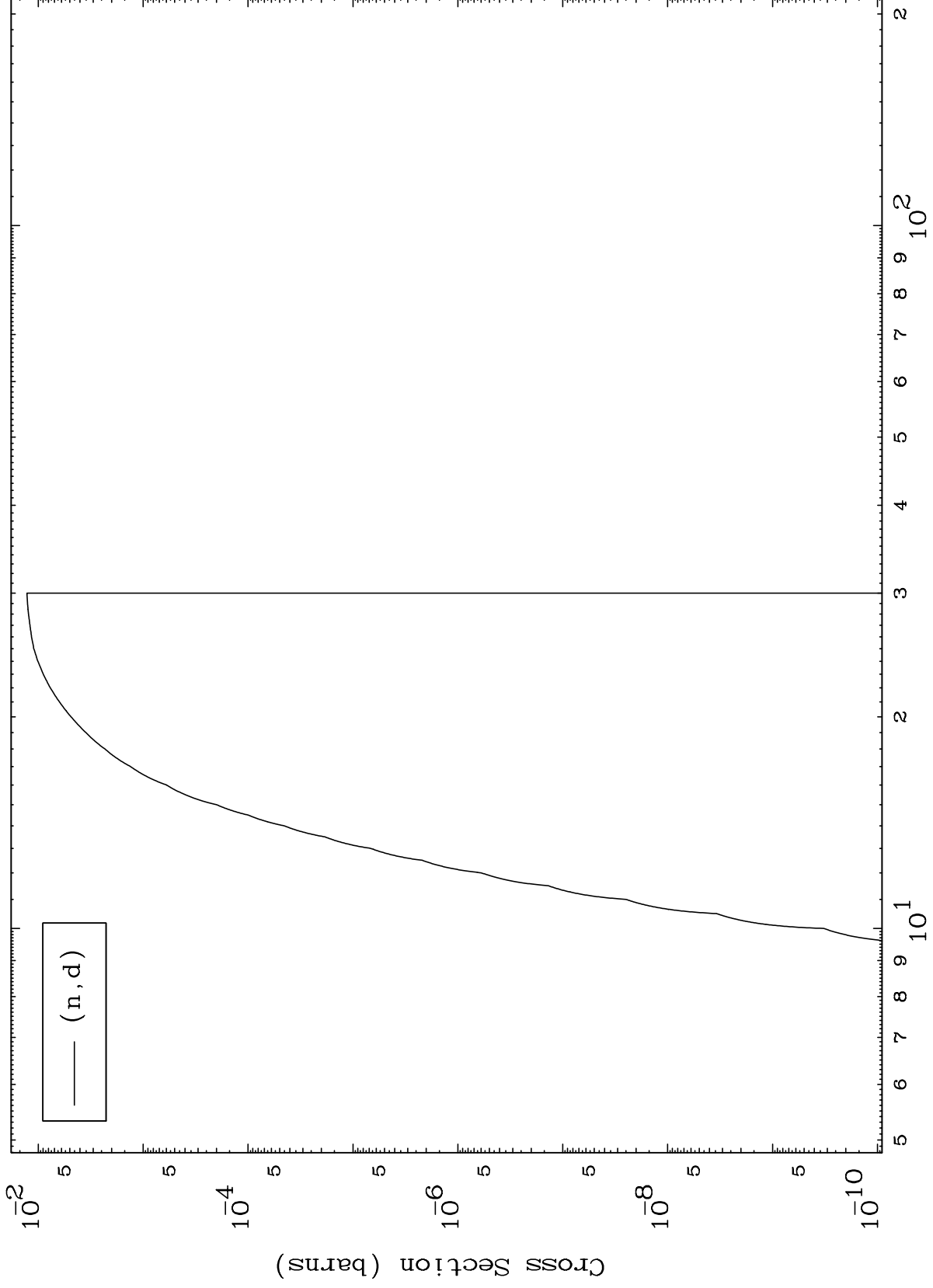
Incident Energy (MeV)

80-Hg-199

MAT 8034

(n,d) Levels
293 Kelvin Cross Sections

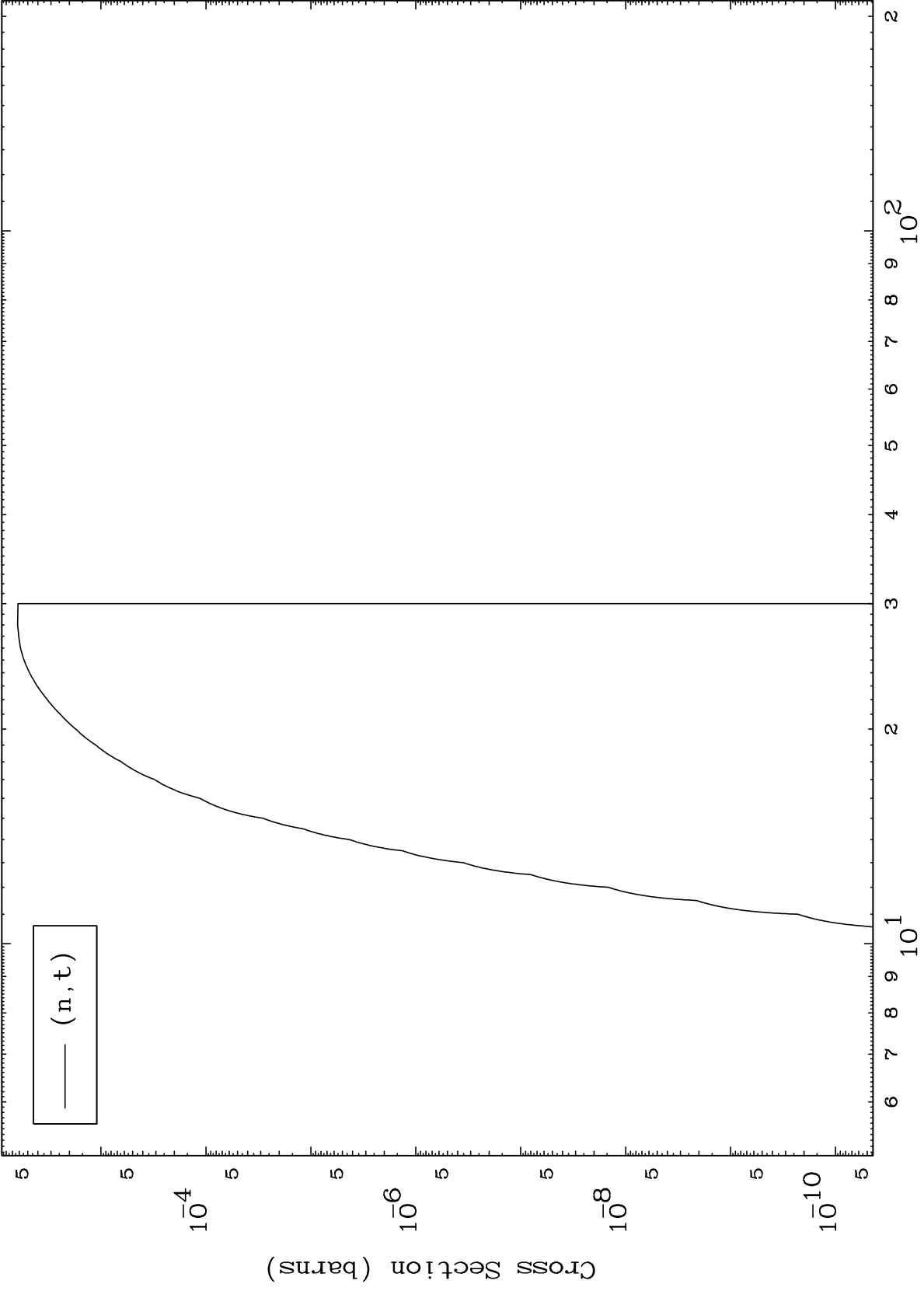
80-Hg-199



MAT 8034

(n,t) Levels
293 Kelvin Cross Sections

80-Hg-199



12

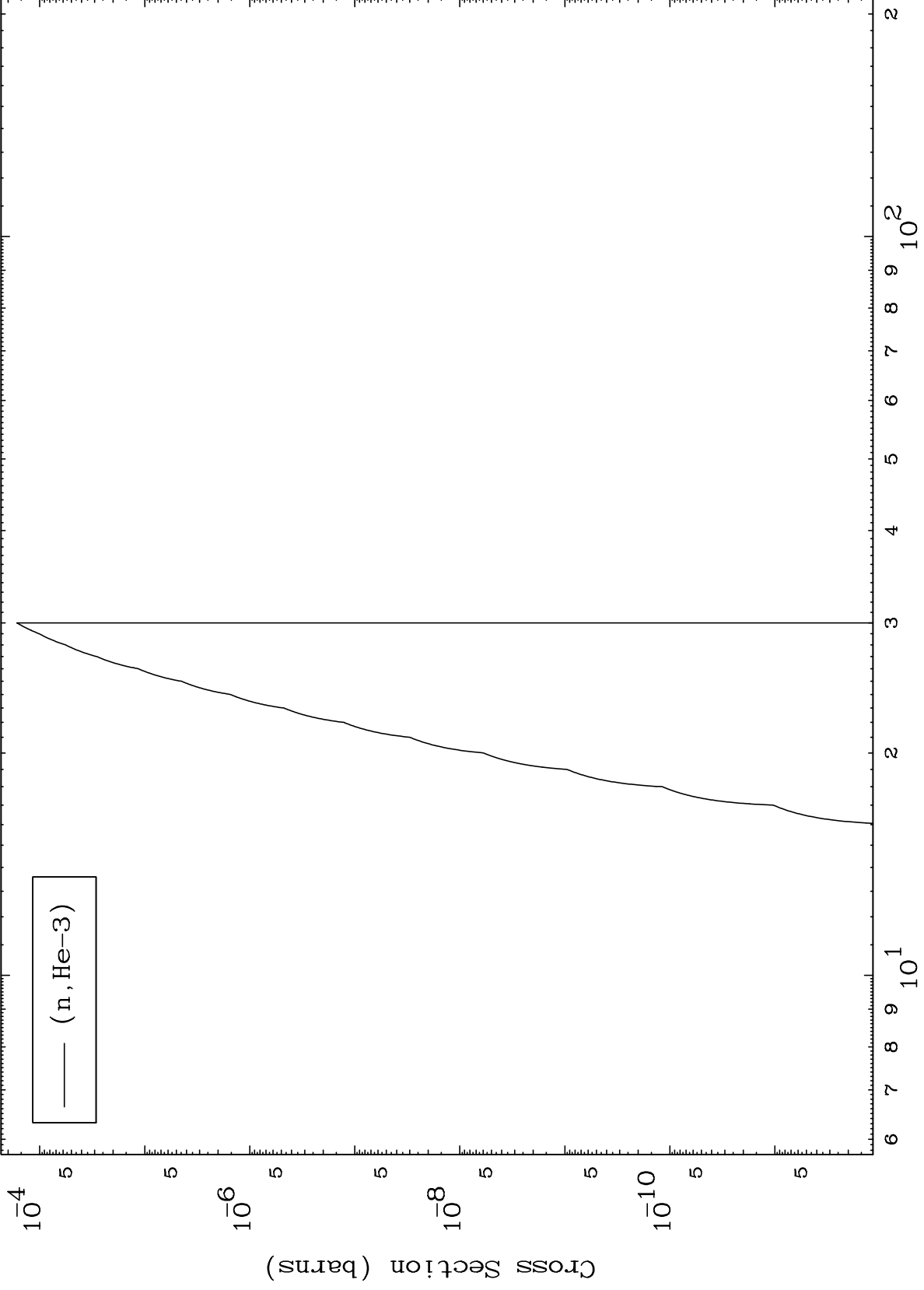
Incident Energy (MeV)

80-Hg-199

MAT 8034

(n,He3) Levels
293 Kelvin Cross Sections

80-Hg-199



13

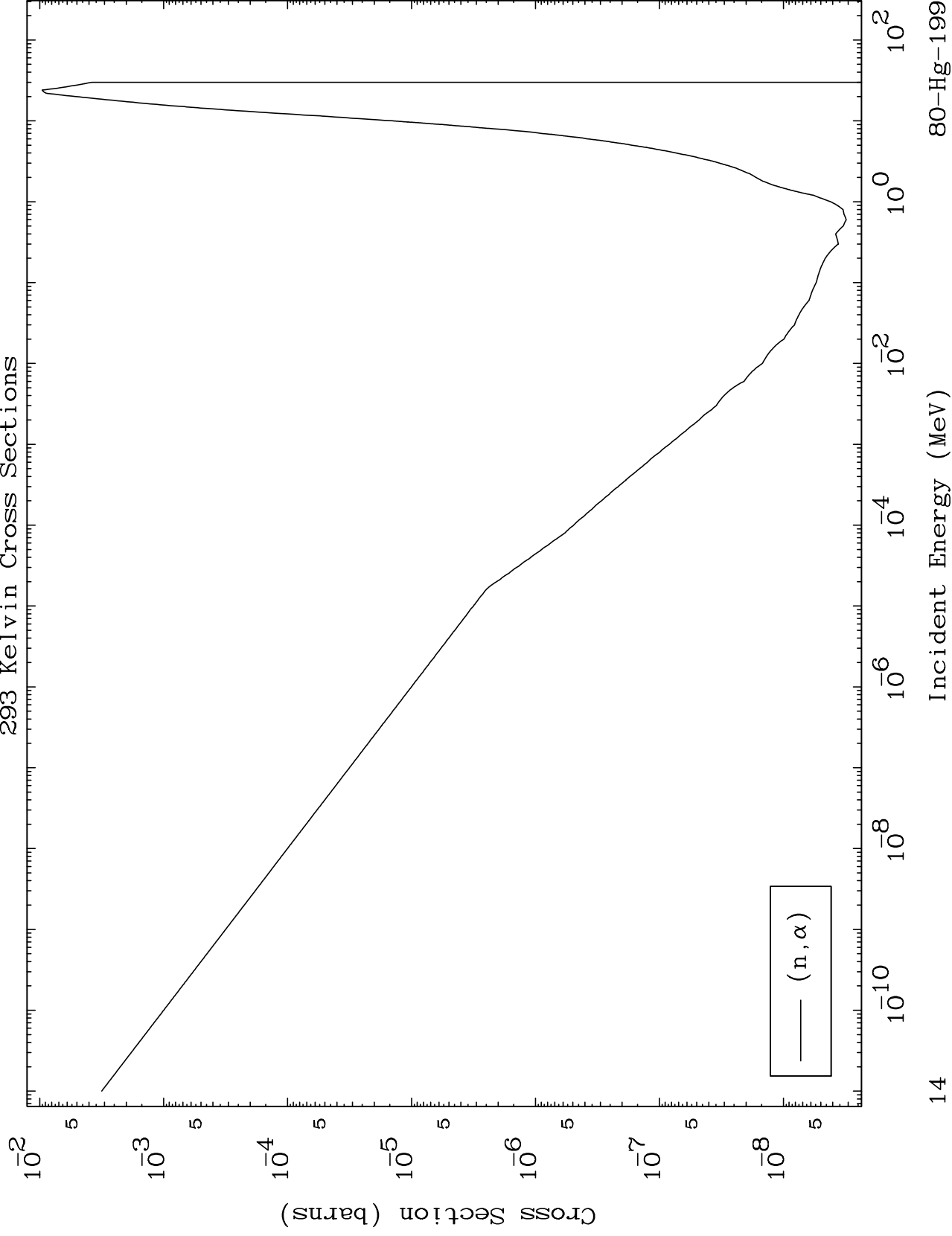
Incident Energy (MeV)

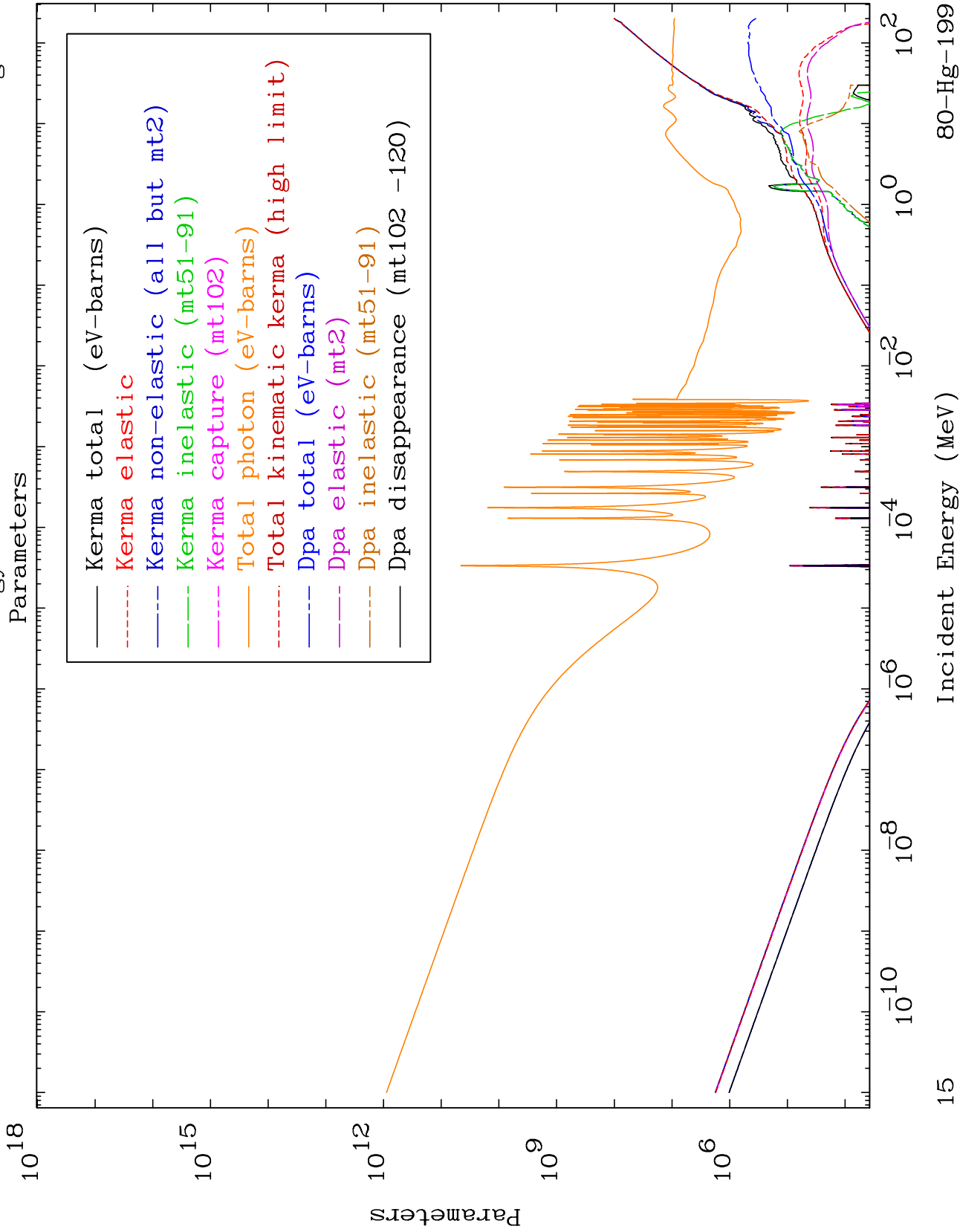
80-Hg-199

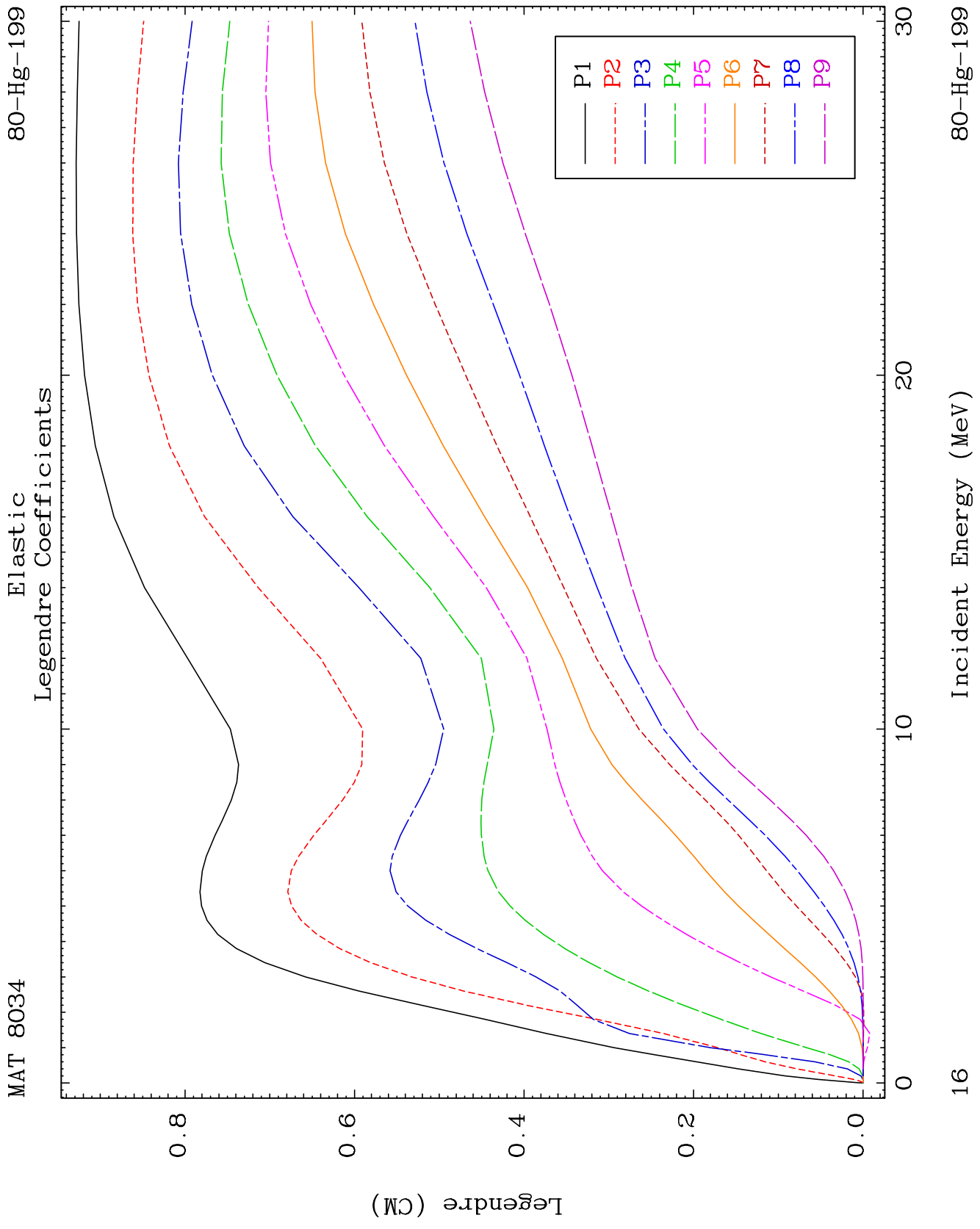
MAT 8034

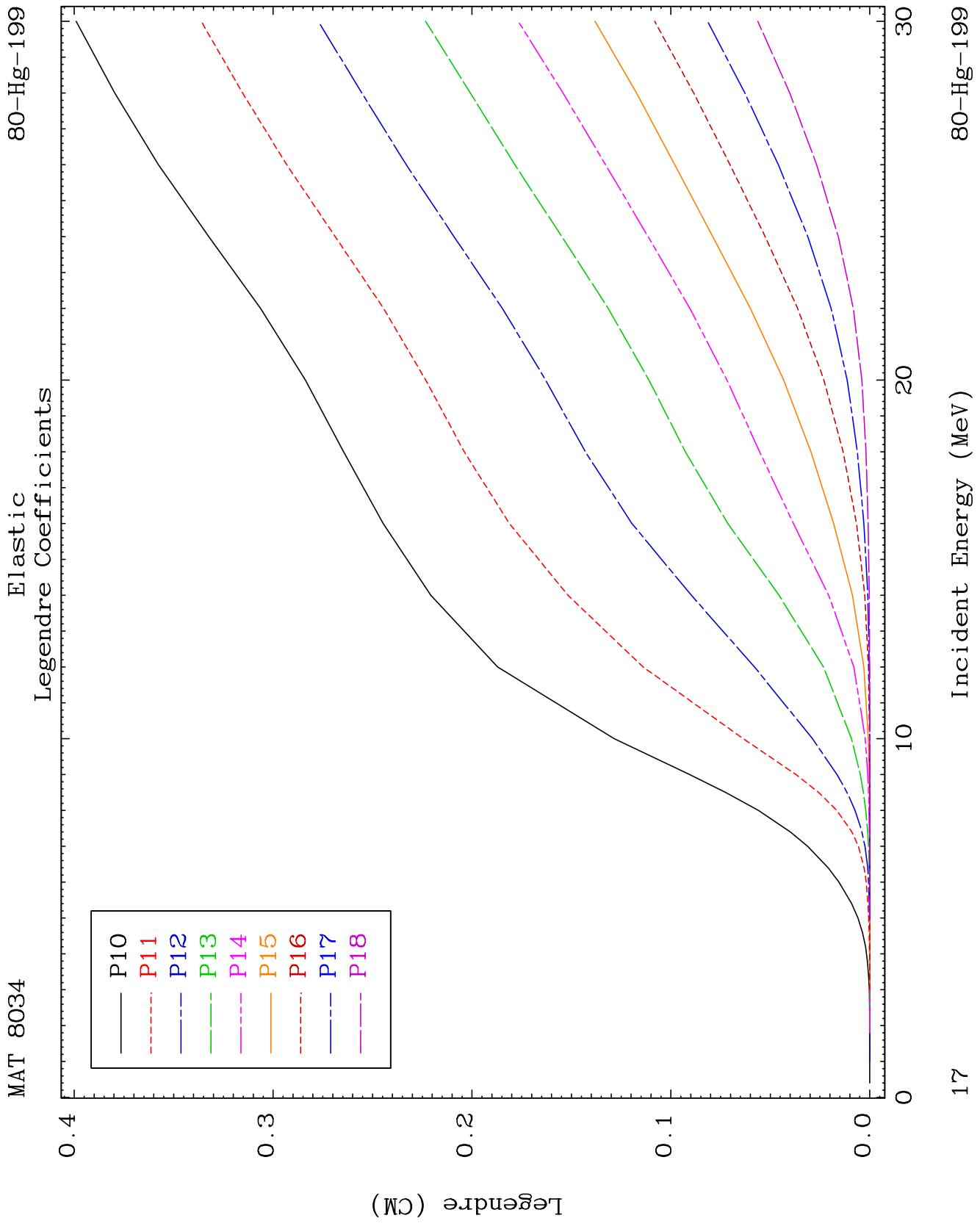
(n, α) Levels
293 Kelvin Cross Sections

80-Hg-199





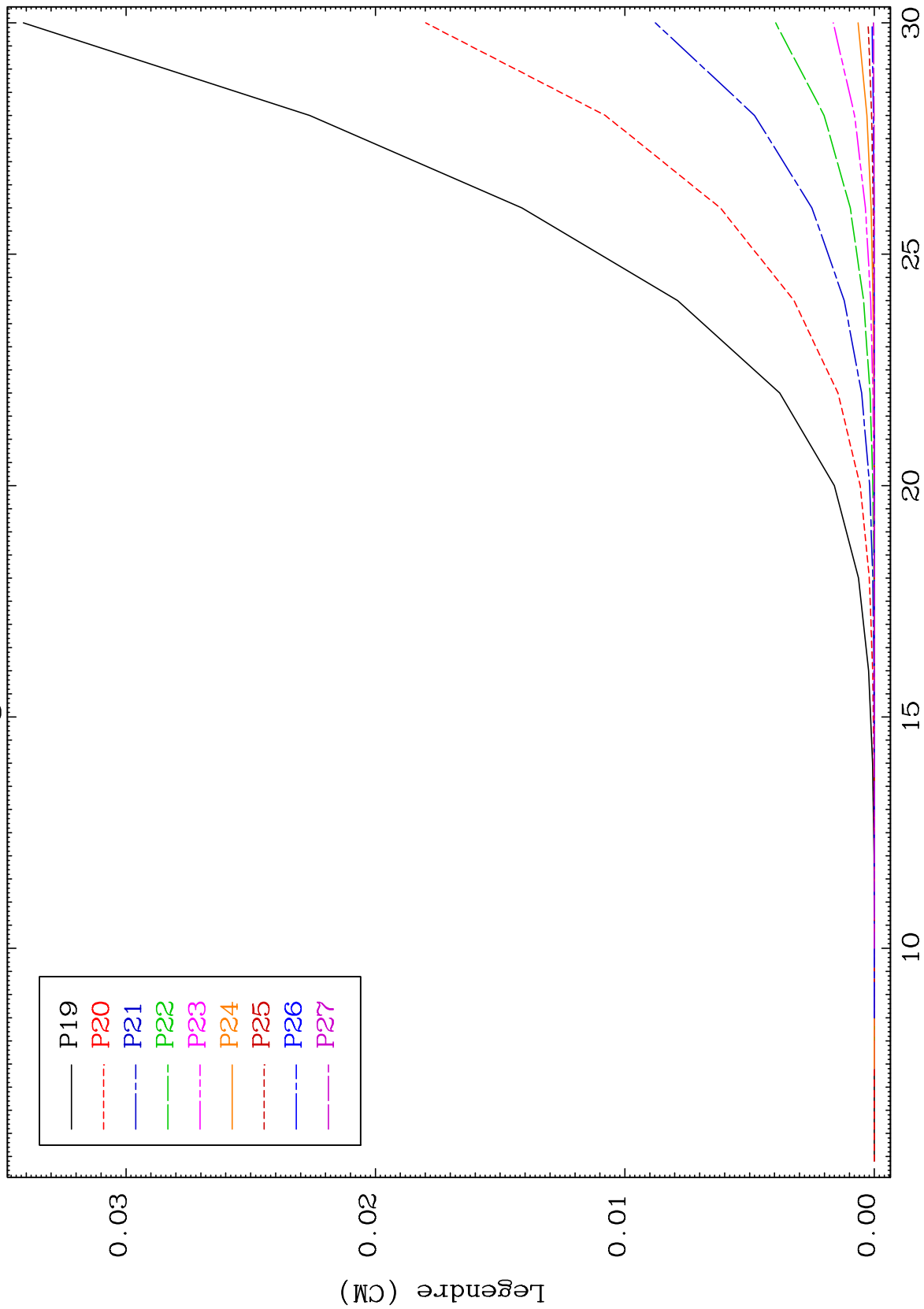




MAT 8034

Elastic
Legendre Coefficients

80-Hg-199



18

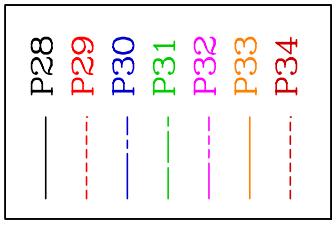
Incident Energy (MeV)

80-Hg-199

MAT 8034

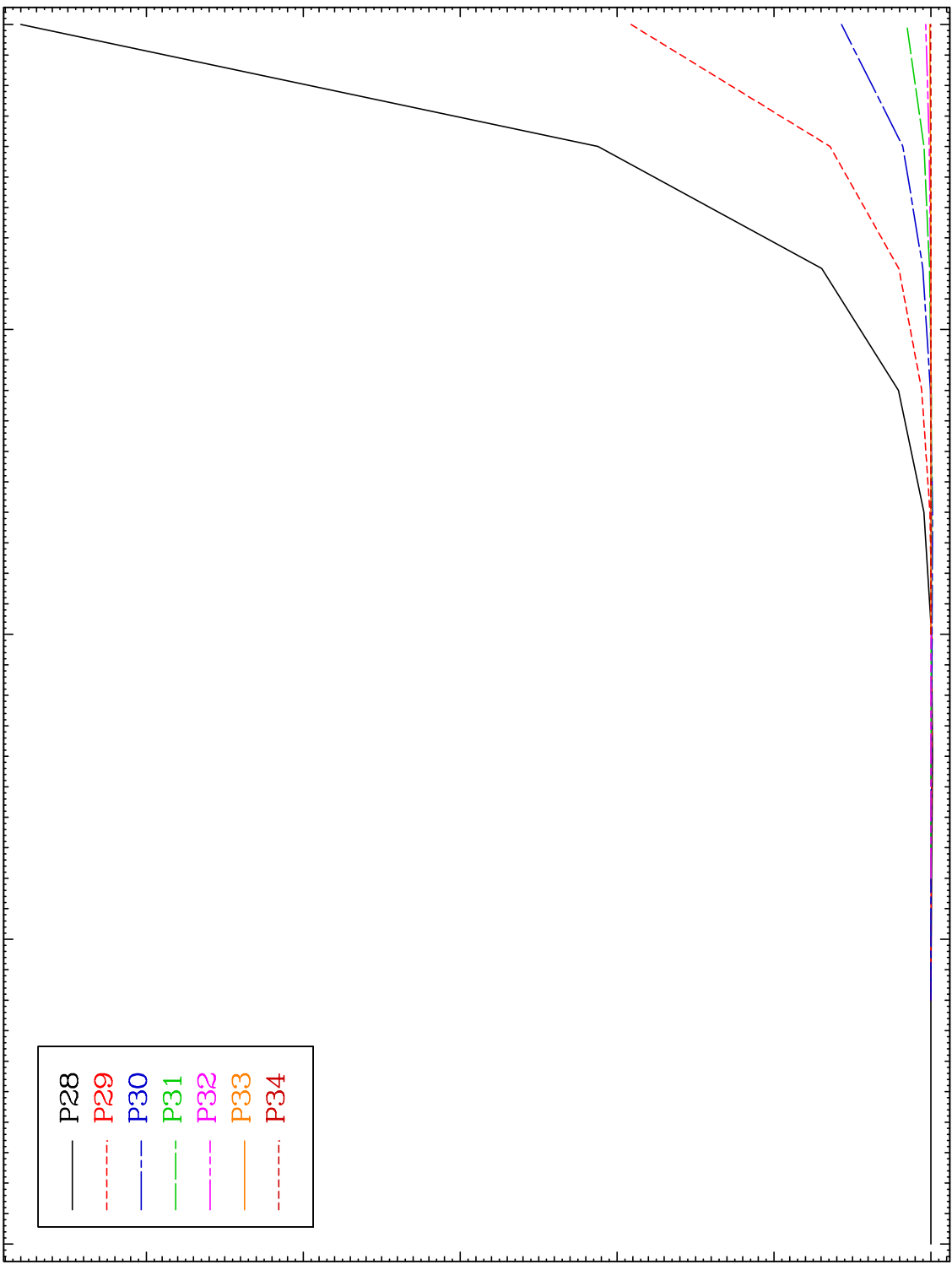
Elastic Legendre Coefficients

80-Hg-199



$\times 10^{-5}$
Legendre (CM)
1.0
0.8
0.6
0.4
0.2
0.0

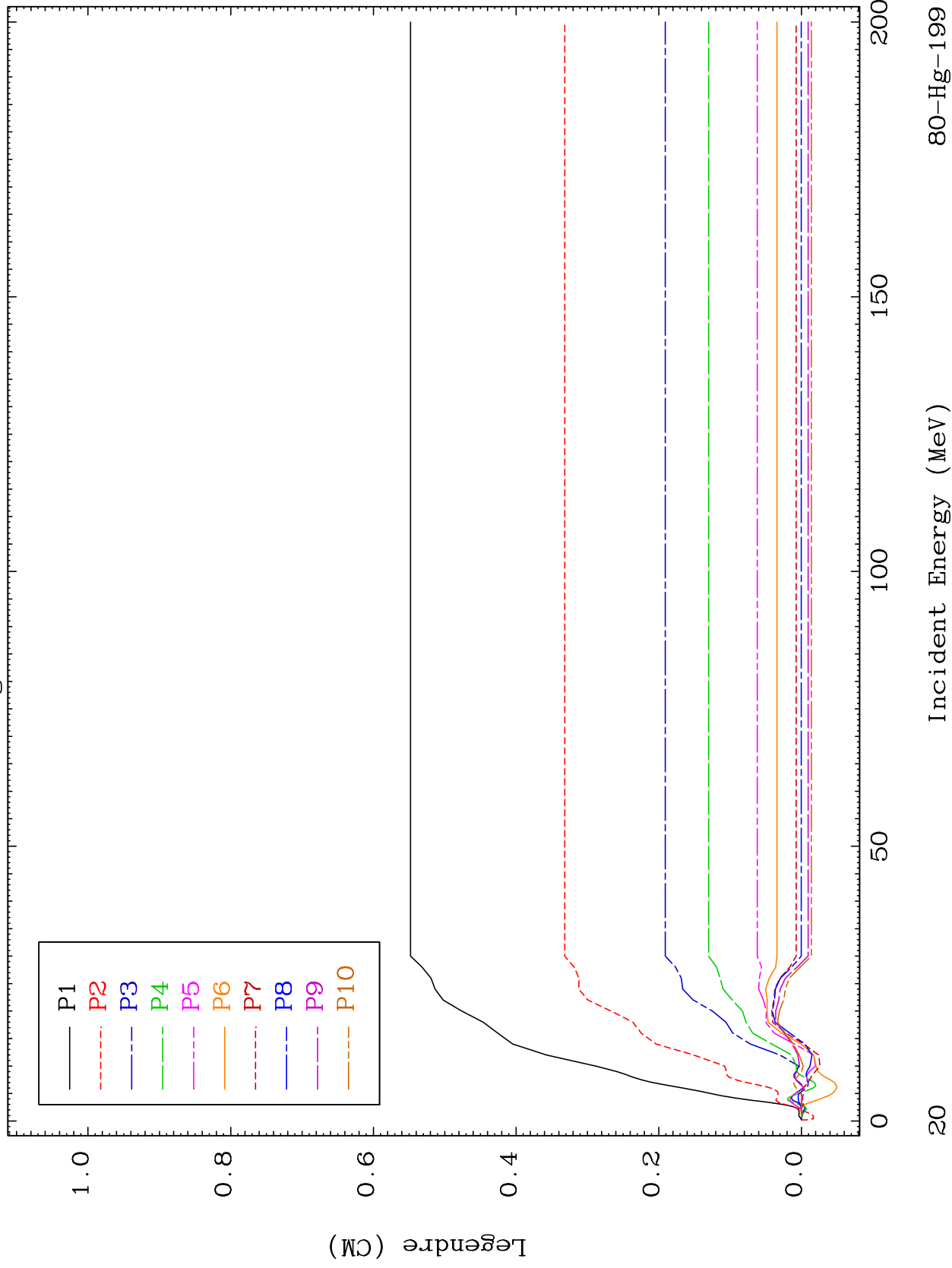
10 15 20 25 30
Incident Energy (MeV)
80-Hg-199



MAT 8034

158.4 keV (n, n') Level
Legendre Coefficients

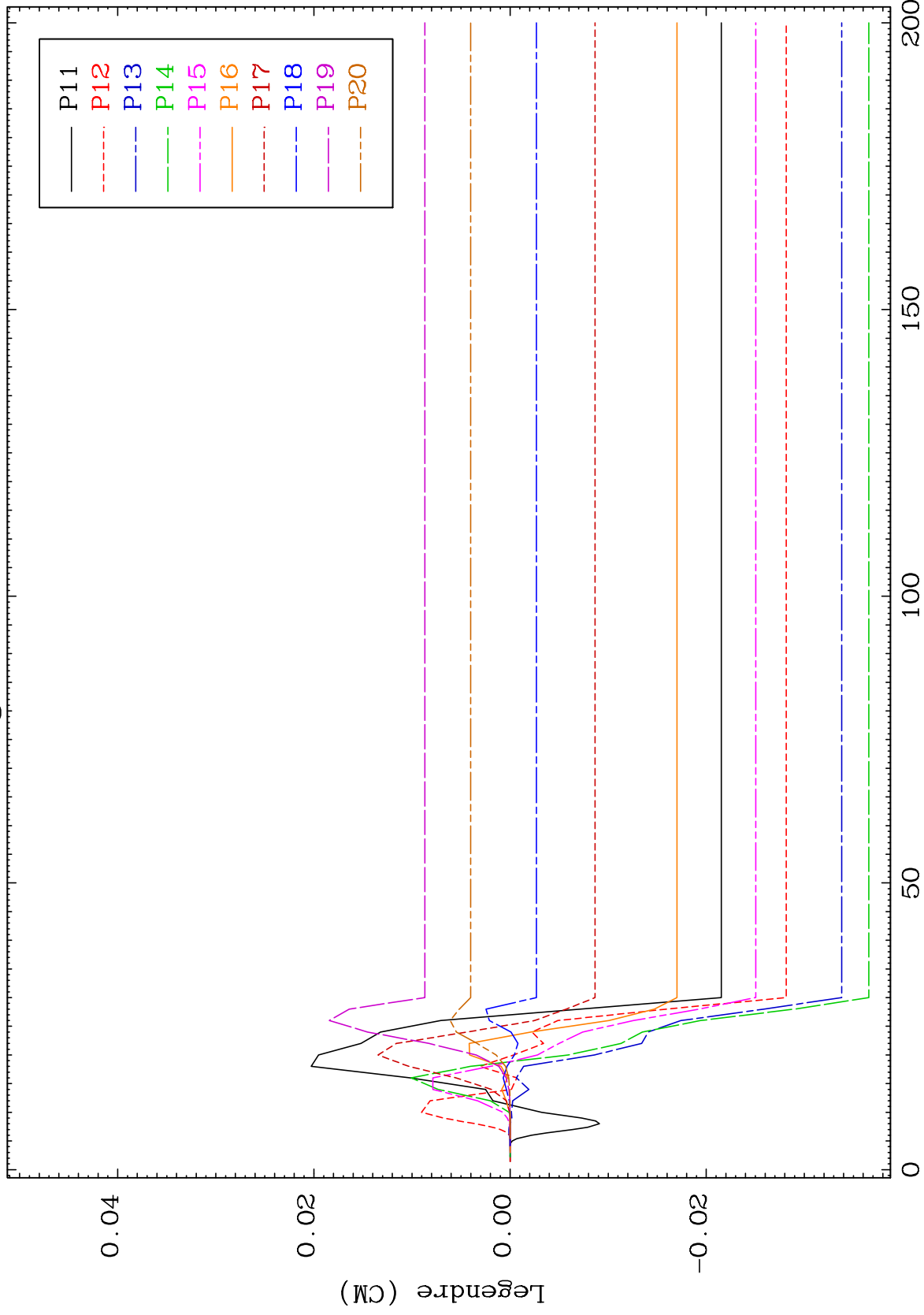
80-Hg-199



MAT 8034

158.4 keV (n,n') Level
Legendre Coefficients

80-Hg-199



21

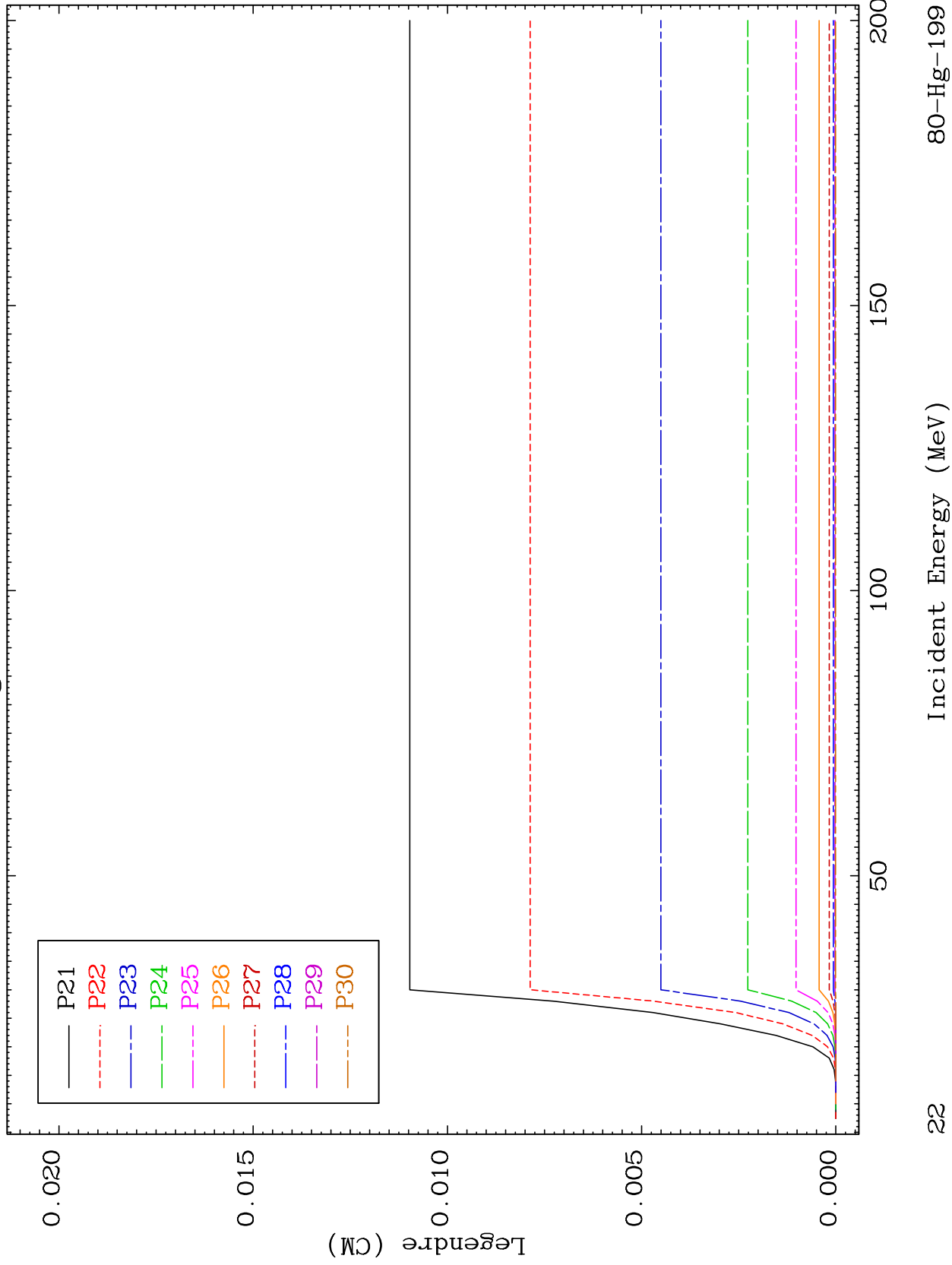
Incident Energy (MeV)

80-Hg-199

MAT 8034

158.4 keV (n,n') Level
Legendre Coefficients

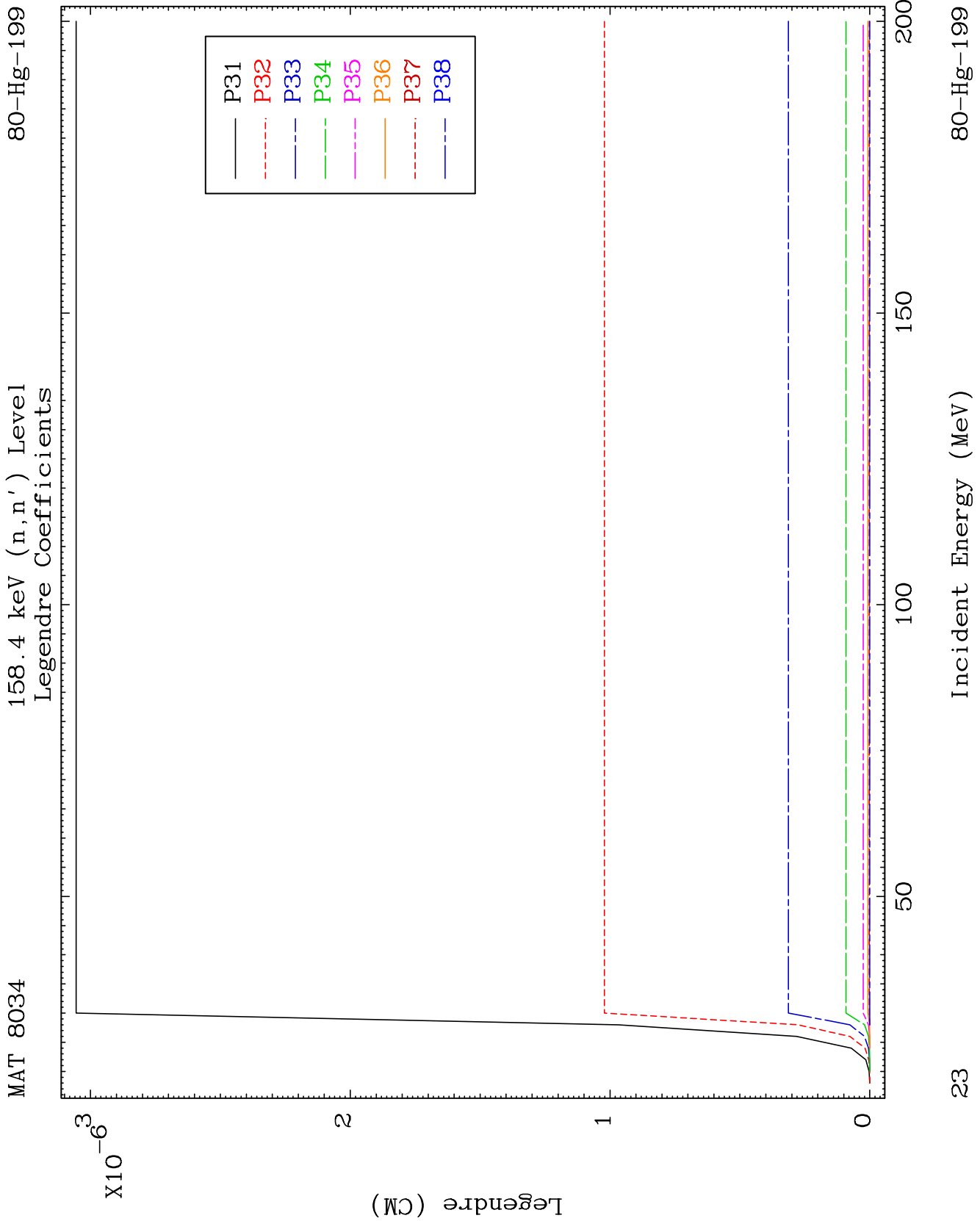
80-Hg-199



22

Incident Energy (MeV)

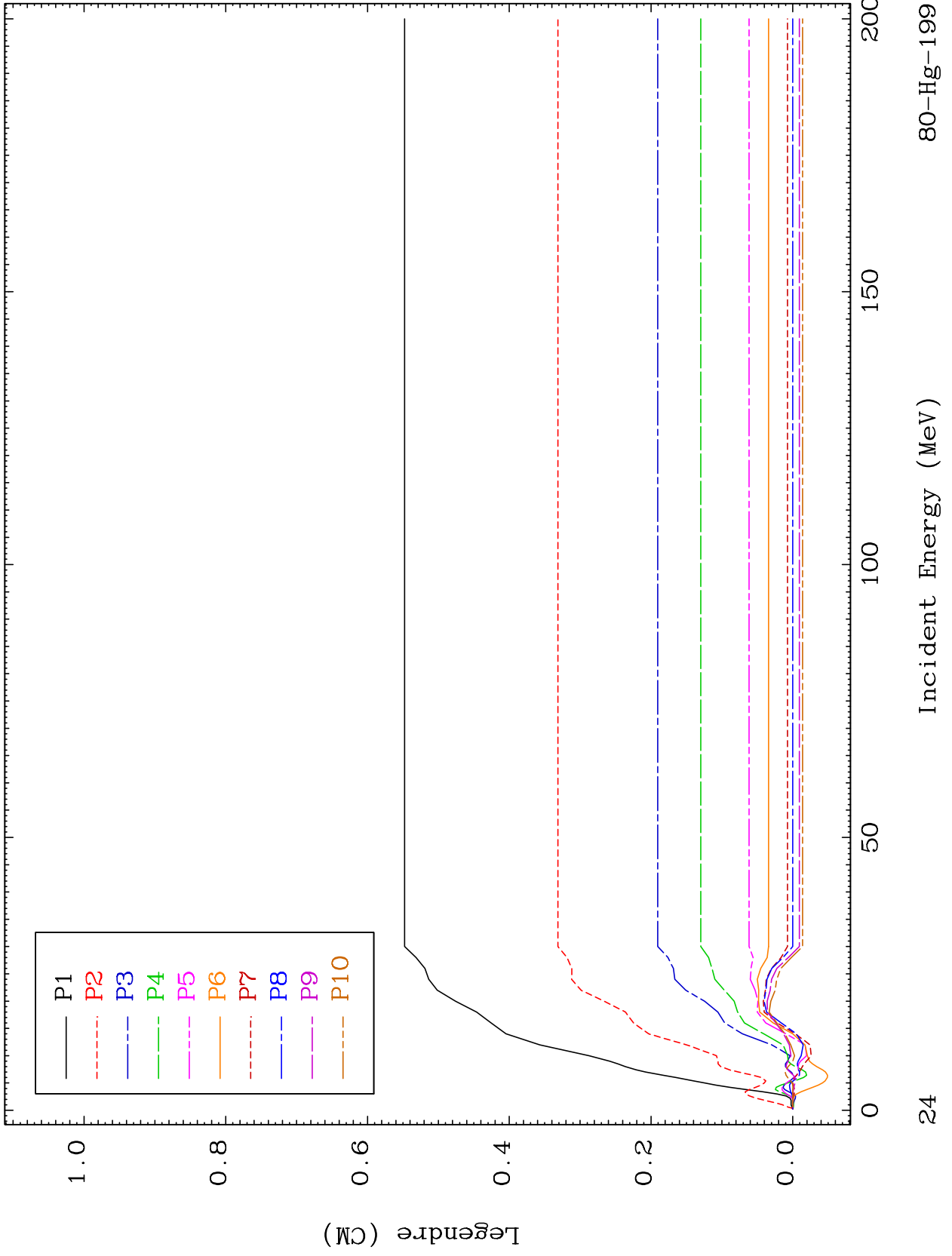
80-Hg-199



MAT 8034

208.2 keV (n,n') Level
Legendre Coefficients

80-Hg-199

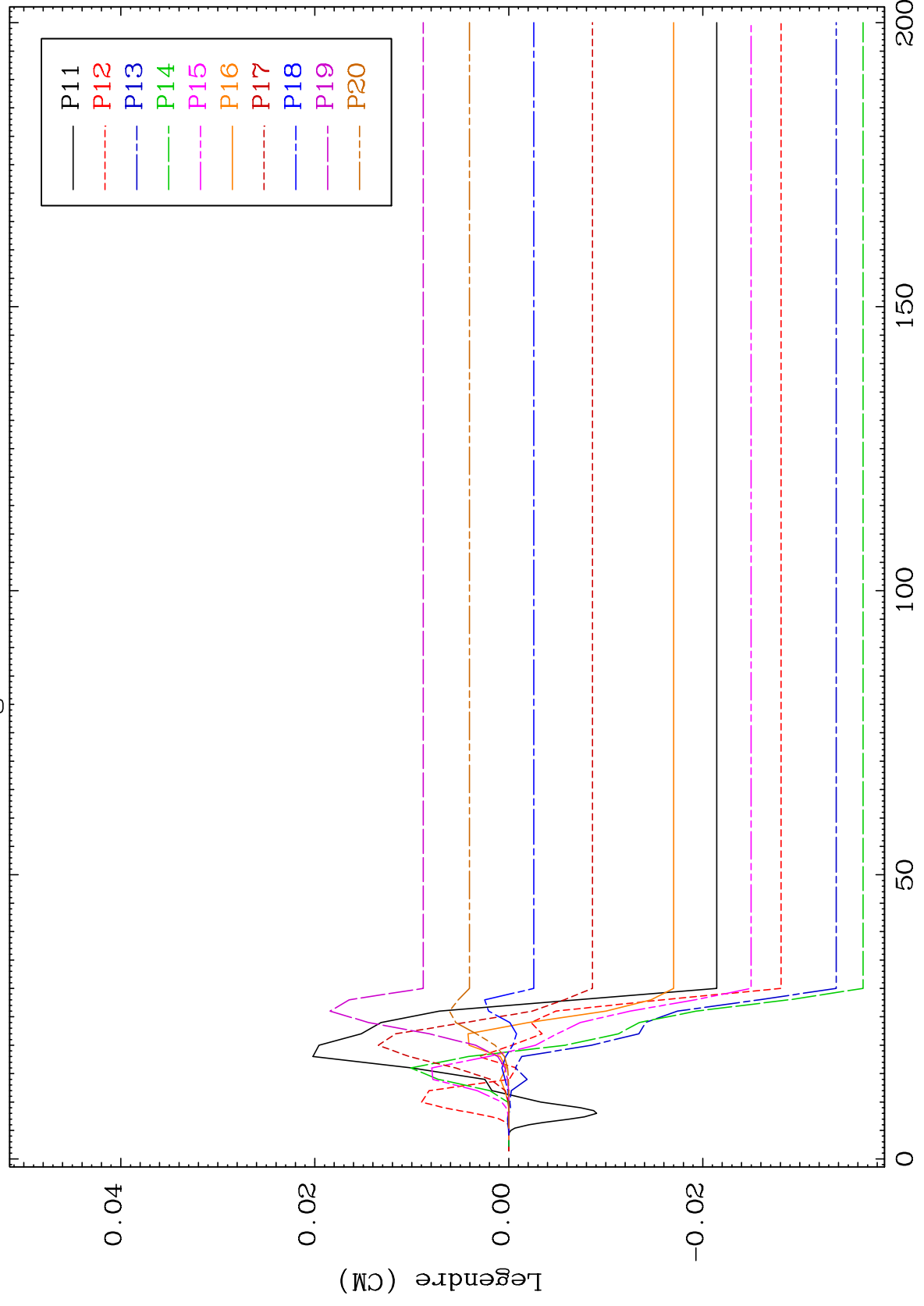


24

MAT 8034

208.2 keV (n,n') Level
Legendre Coefficients

80-Hg-199



25

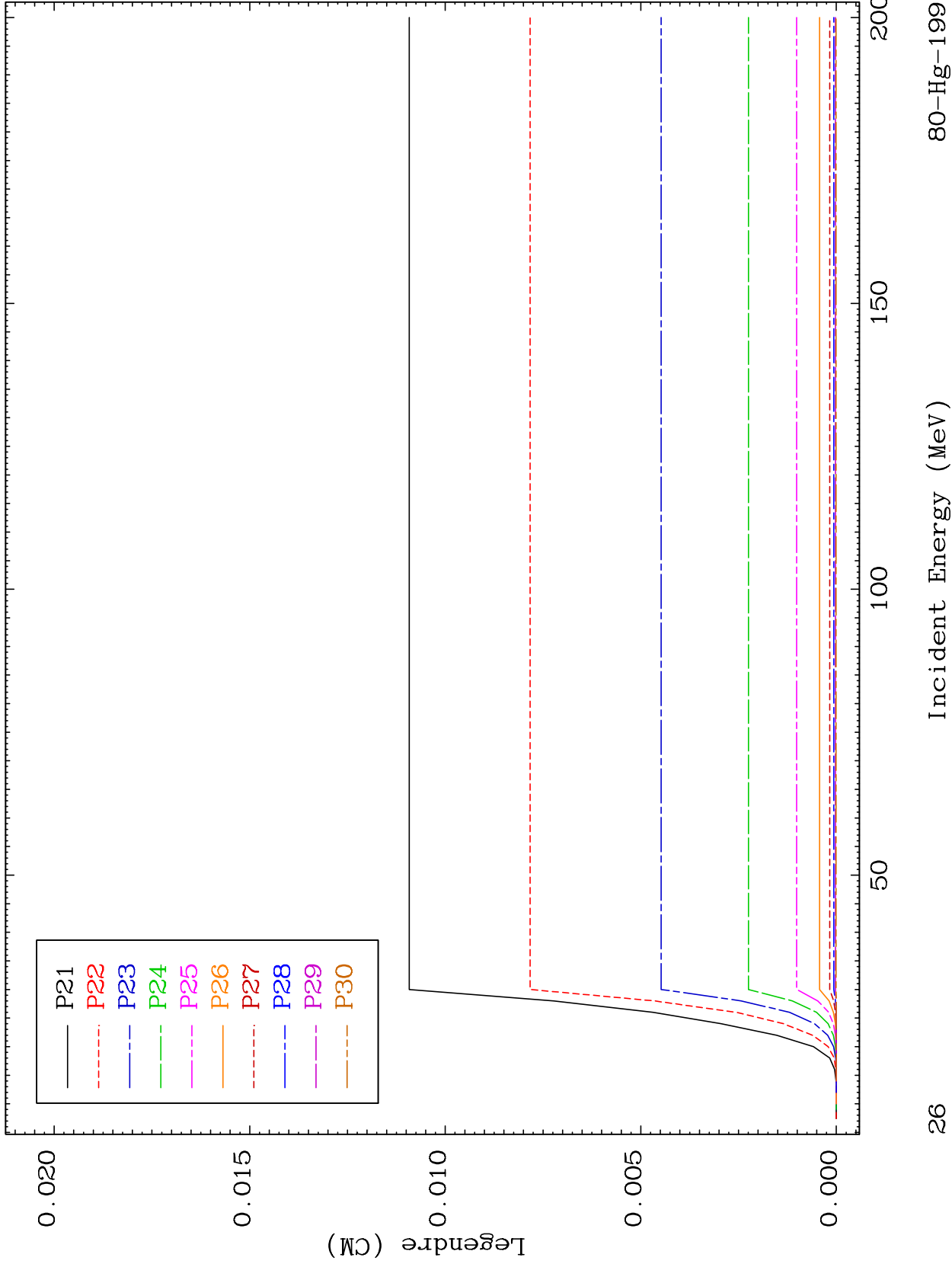
Incident Energy (MeV)

80-Hg-199

MAT 8034

208.2 keV (n,n') Level
Legendre Coefficients

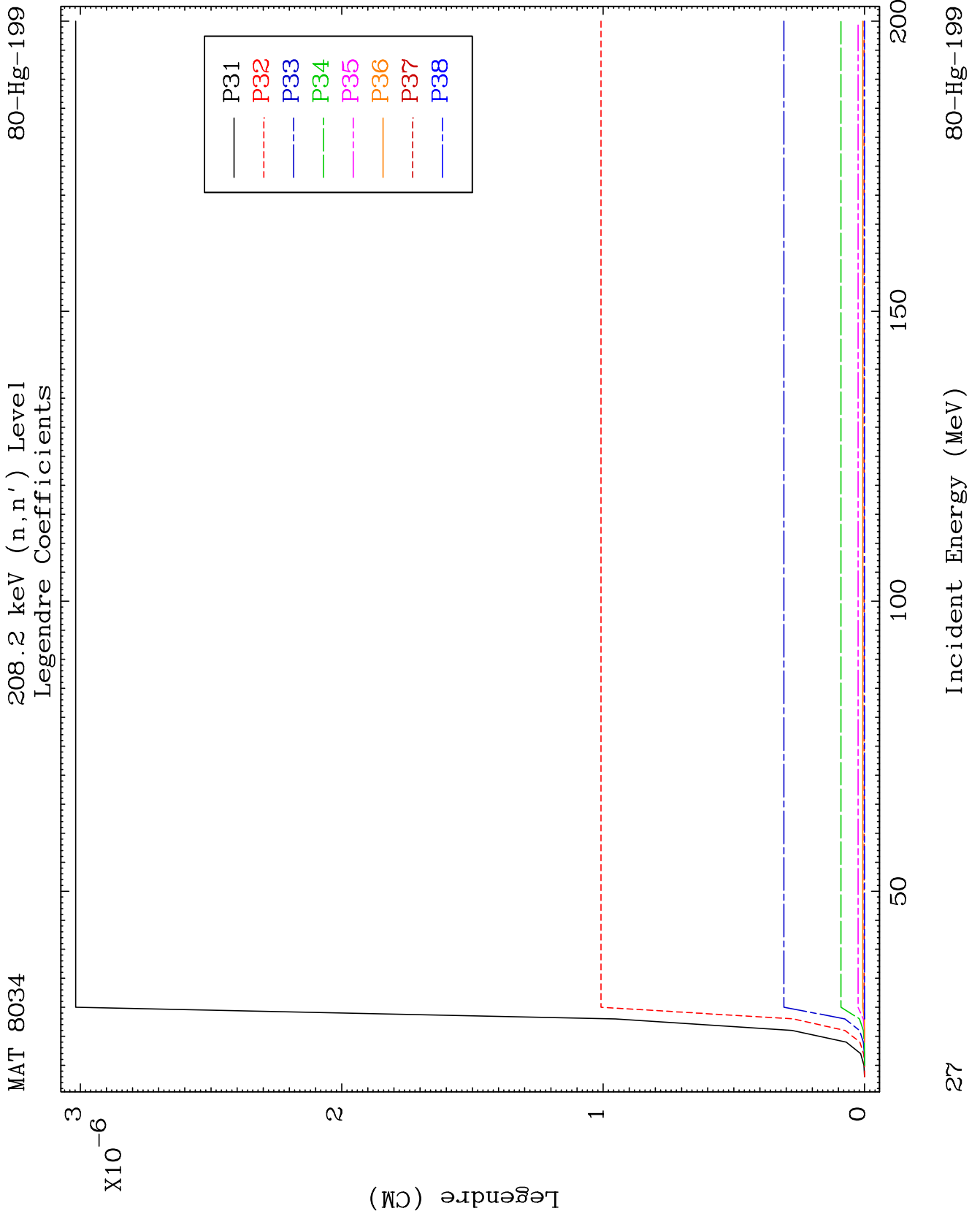
80-Hg-199



26

Incident Energy (MeV)

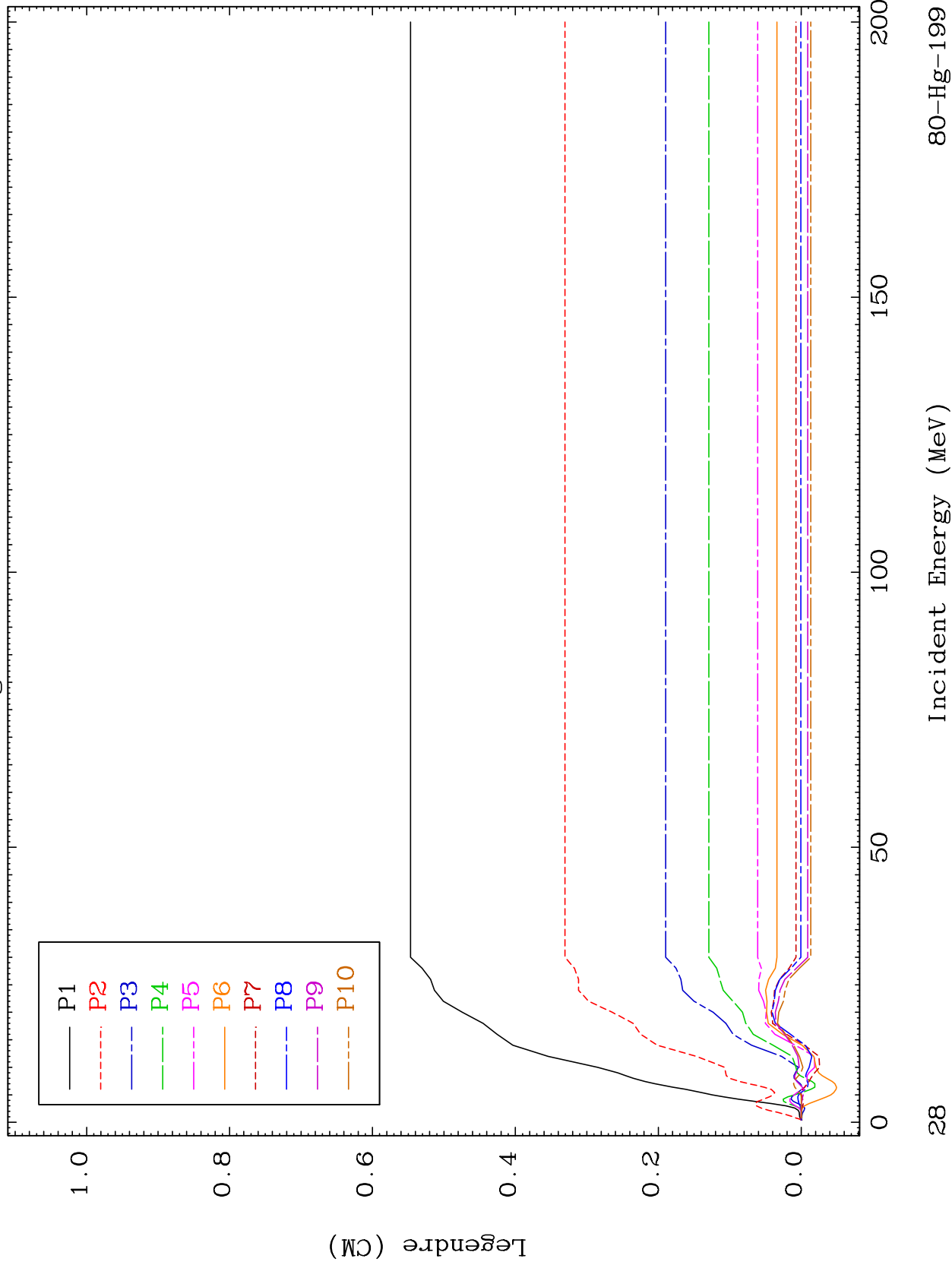
80-Hg-199



MAT 8034

403.5 keV (n, n') Level
Legendre Coefficients

80-Hg-199

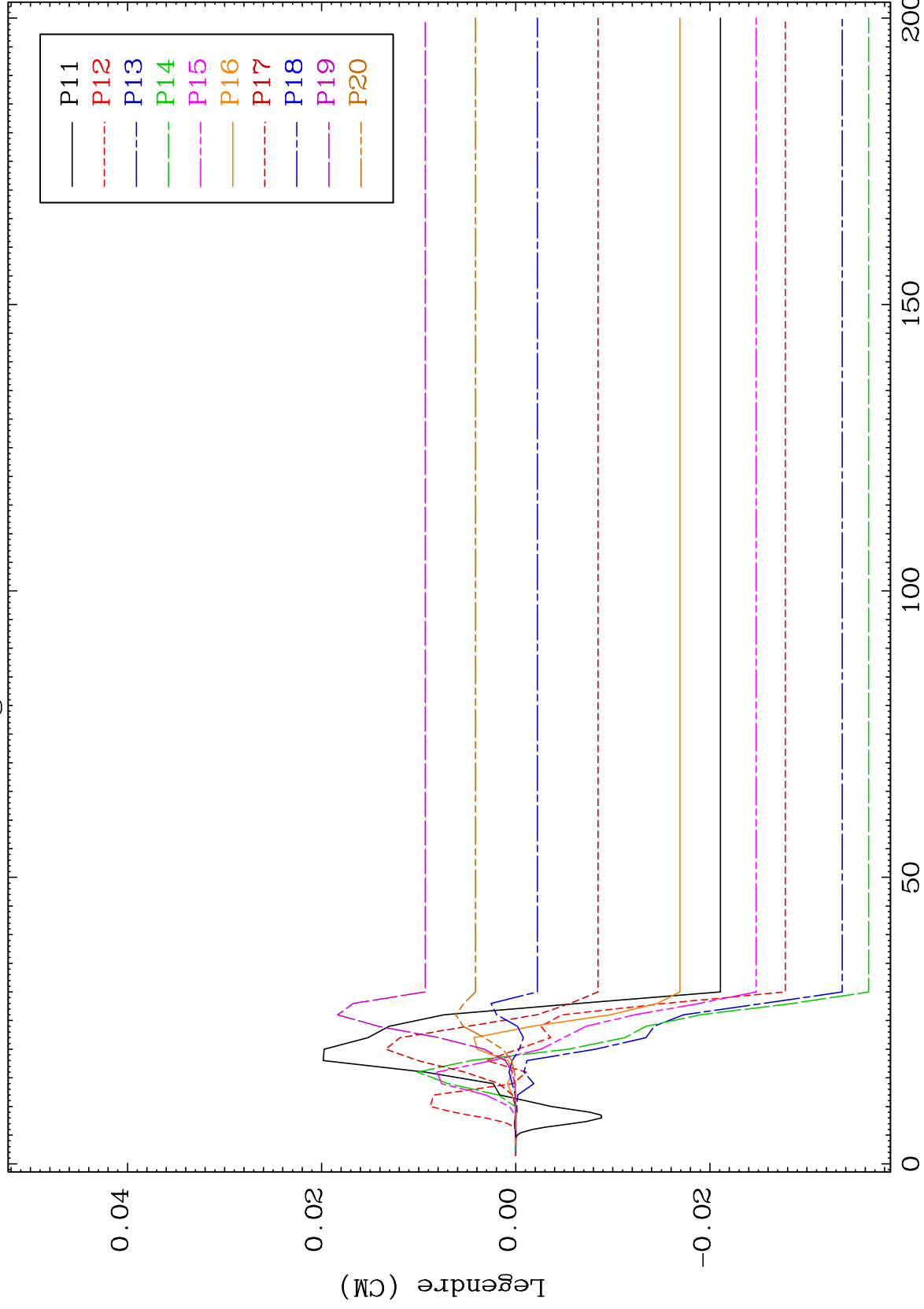


28

MAT 8034

403.5 keV (n,n') Level
Legendre Coefficients

80-Hg-199



29

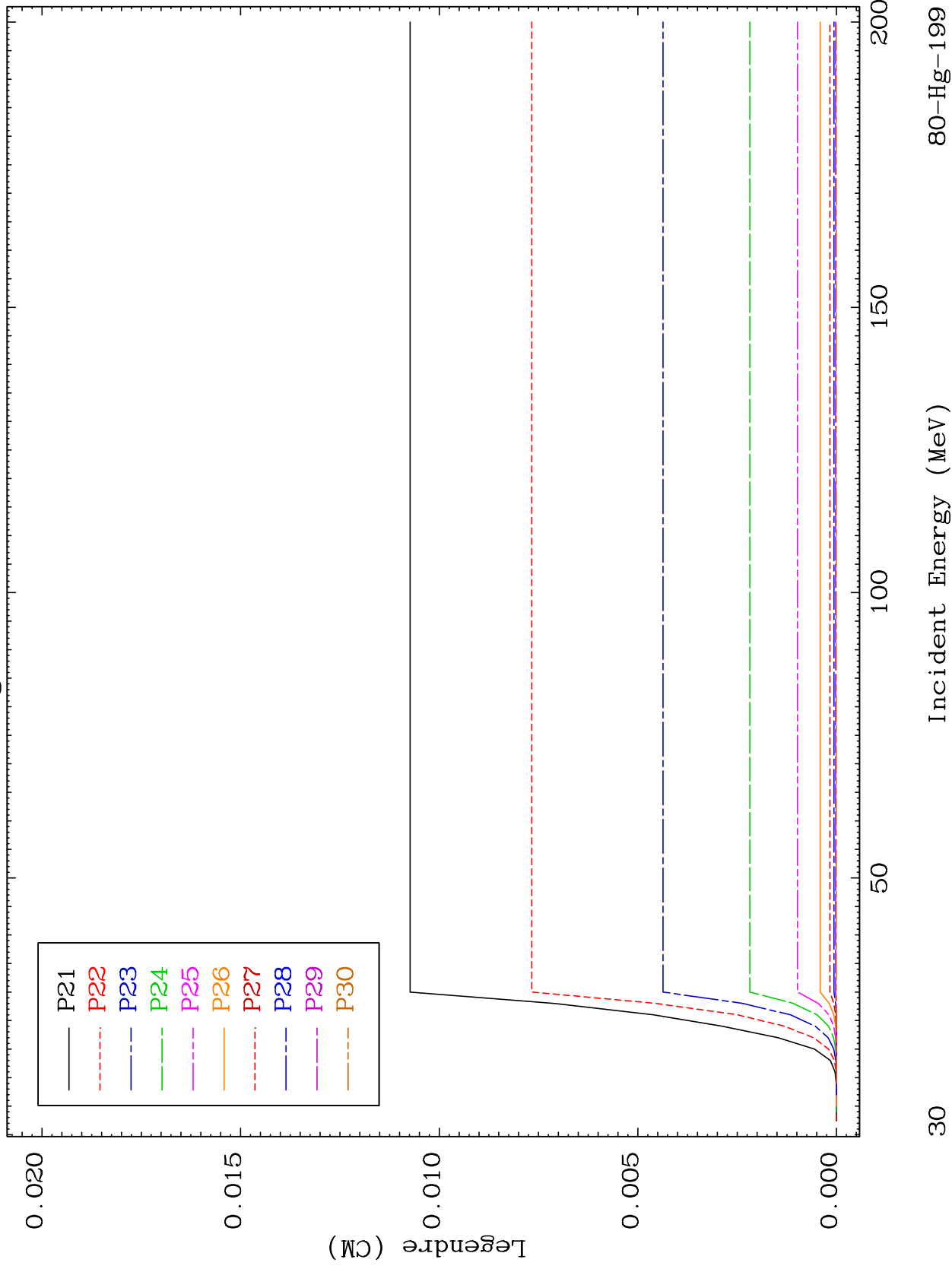
Incident Energy (MeV)

80-Hg-199

MAT 8034

403.5 keV (n,n') Level
Legendre Coefficients

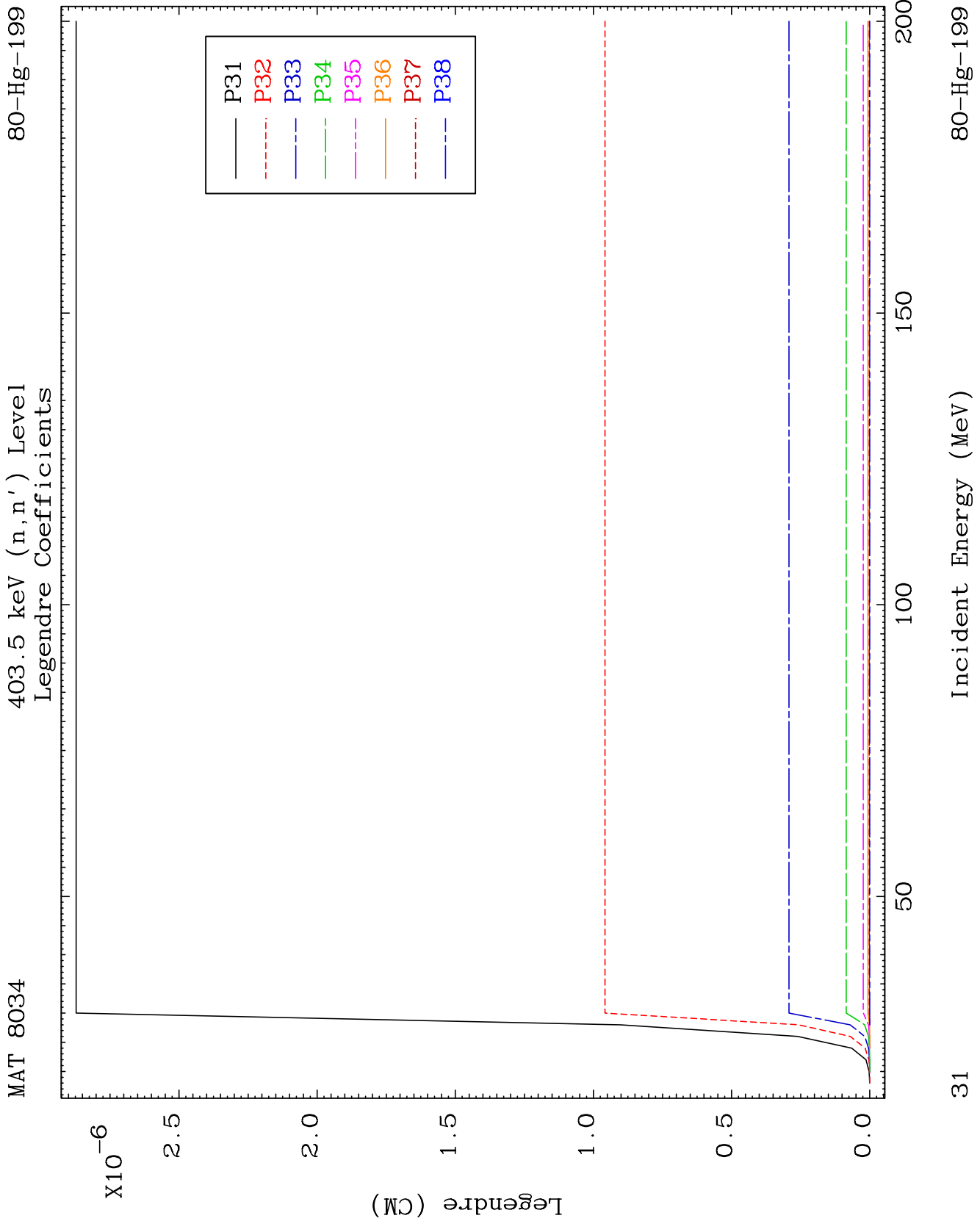
80-Hg-199



80-Hg-199

Incident Energy (MeV)

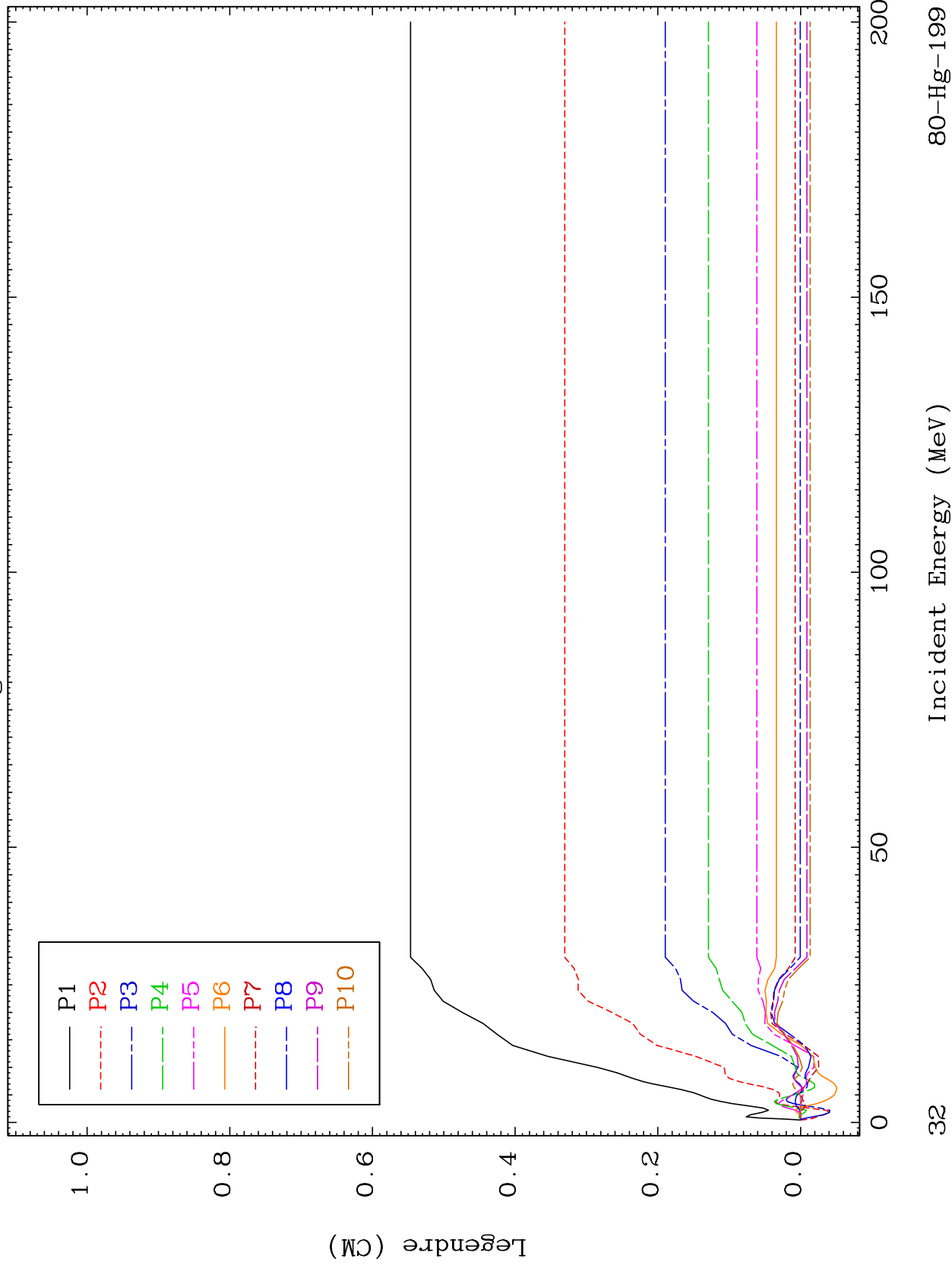
30



MAT 8034

413.8 keV (n, n') Level
Legendre Coefficients

80-Hg-199

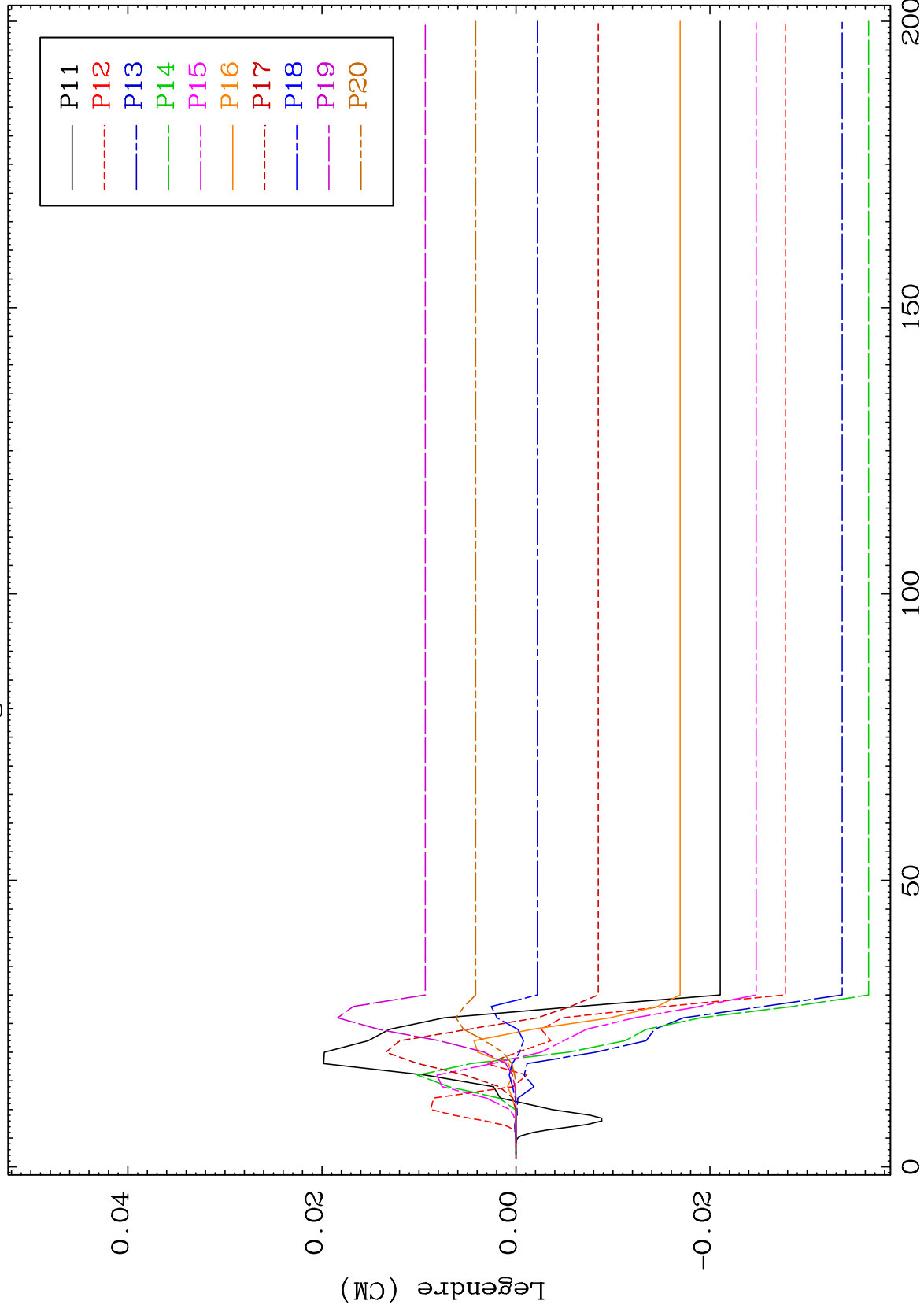


32

MAT 8034

413.8 keV (n,n') Level
Legendre Coefficients

80-Hg-199



33

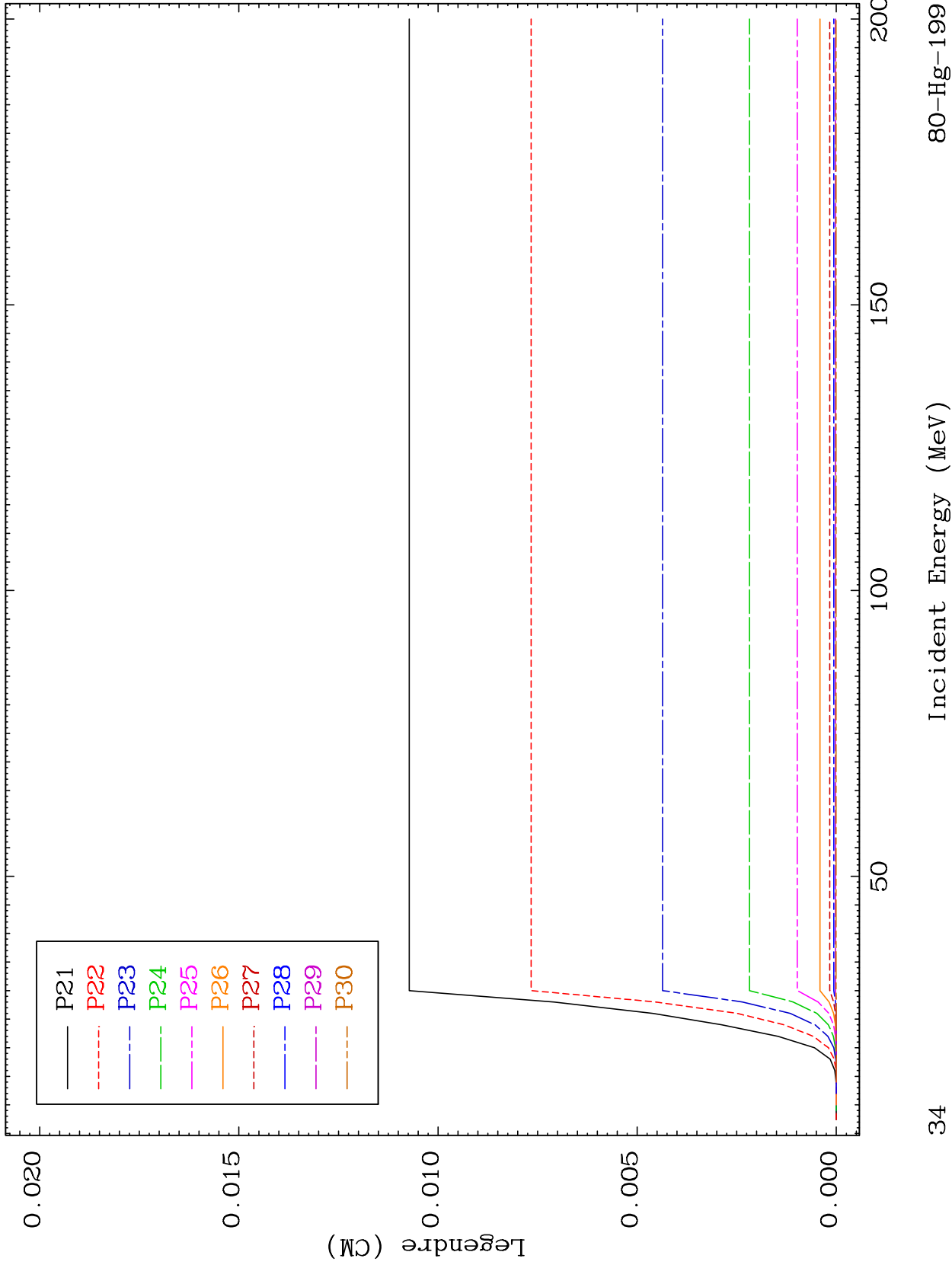
Incident Energy (MeV)

80-Hg-199

MAT 8034

413.8 keV (n,n') Level
Legendre Coefficients

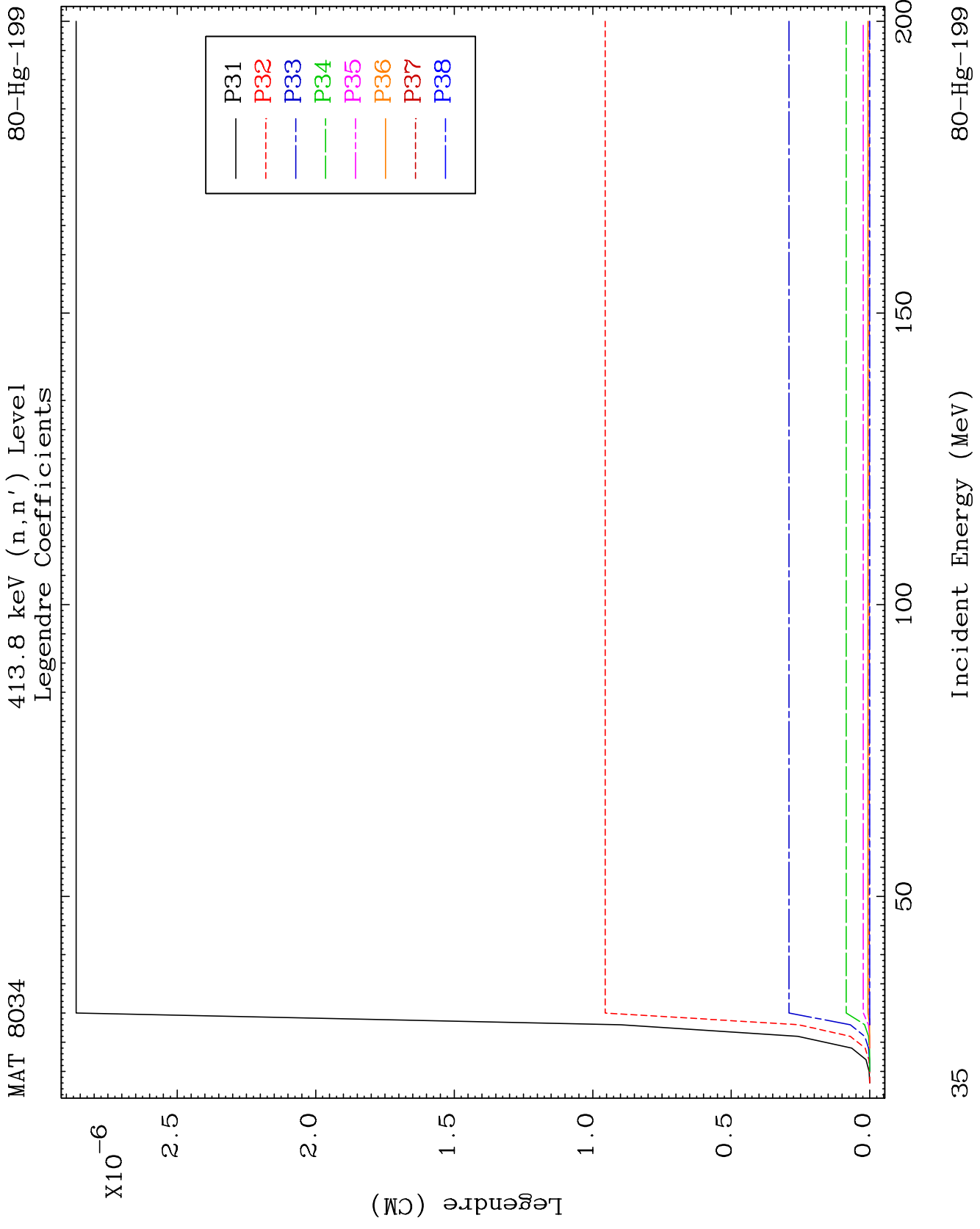
80-Hg-199



34

Incident Energy (MeV)

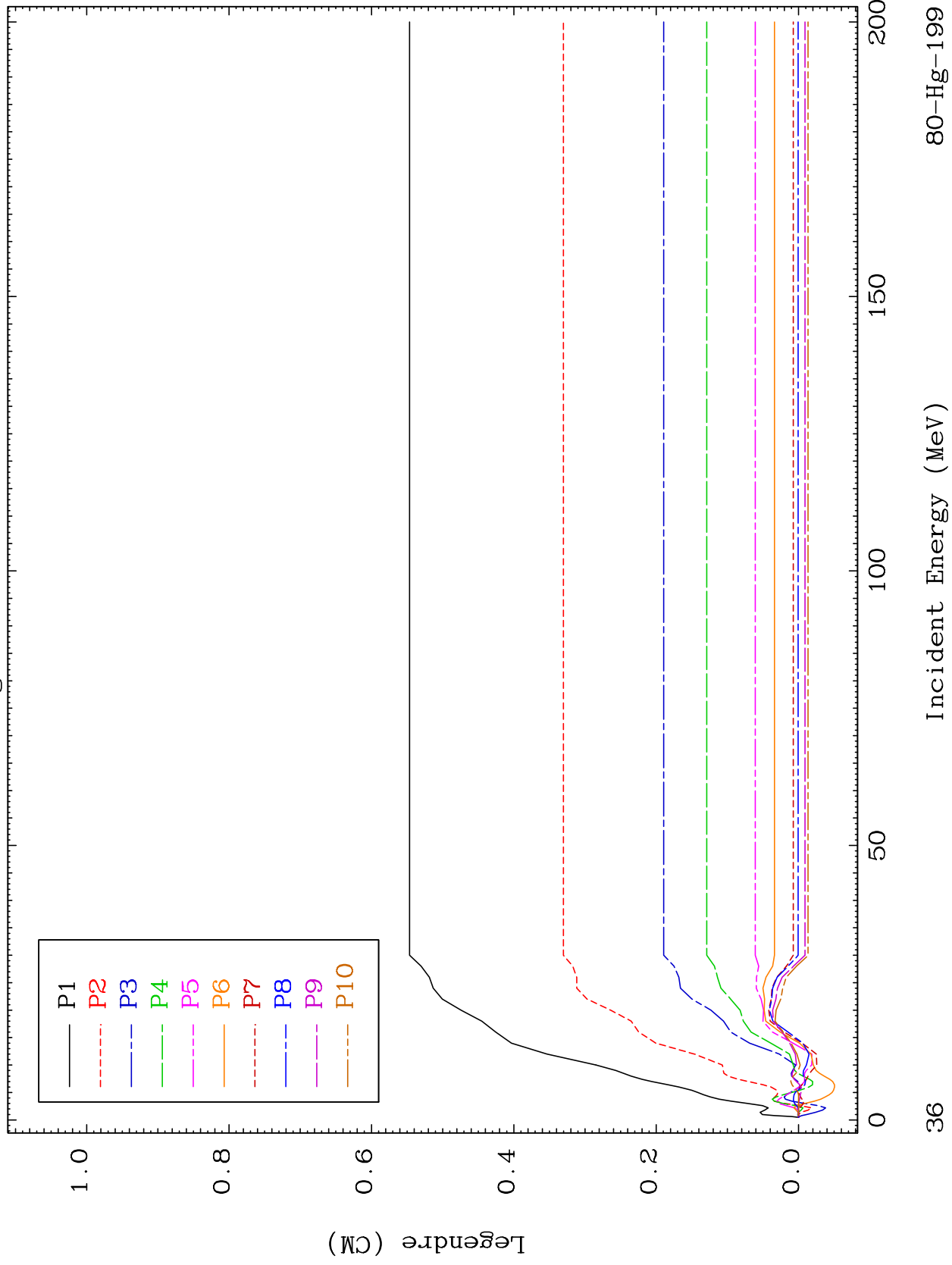
80-Hg-199



MAT 8034

455.5 keV (n,n') Level
Legendre Coefficients

80-Hg-199



80-Hg-199

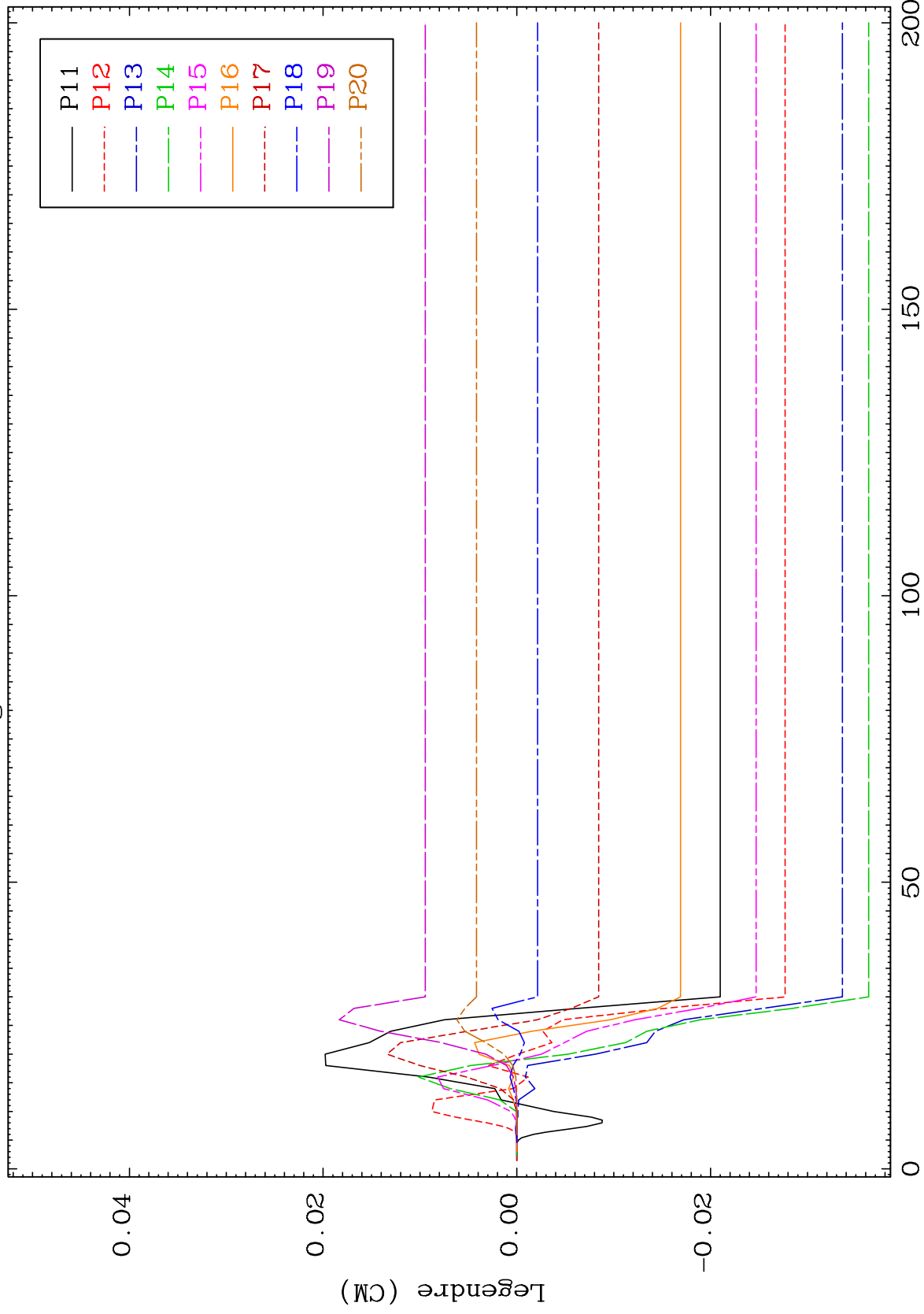
Incident Energy (MeV)

36

MAT 8034

455.5 keV (n,n') Level
Legendre Coefficients

80-Hg-199



37

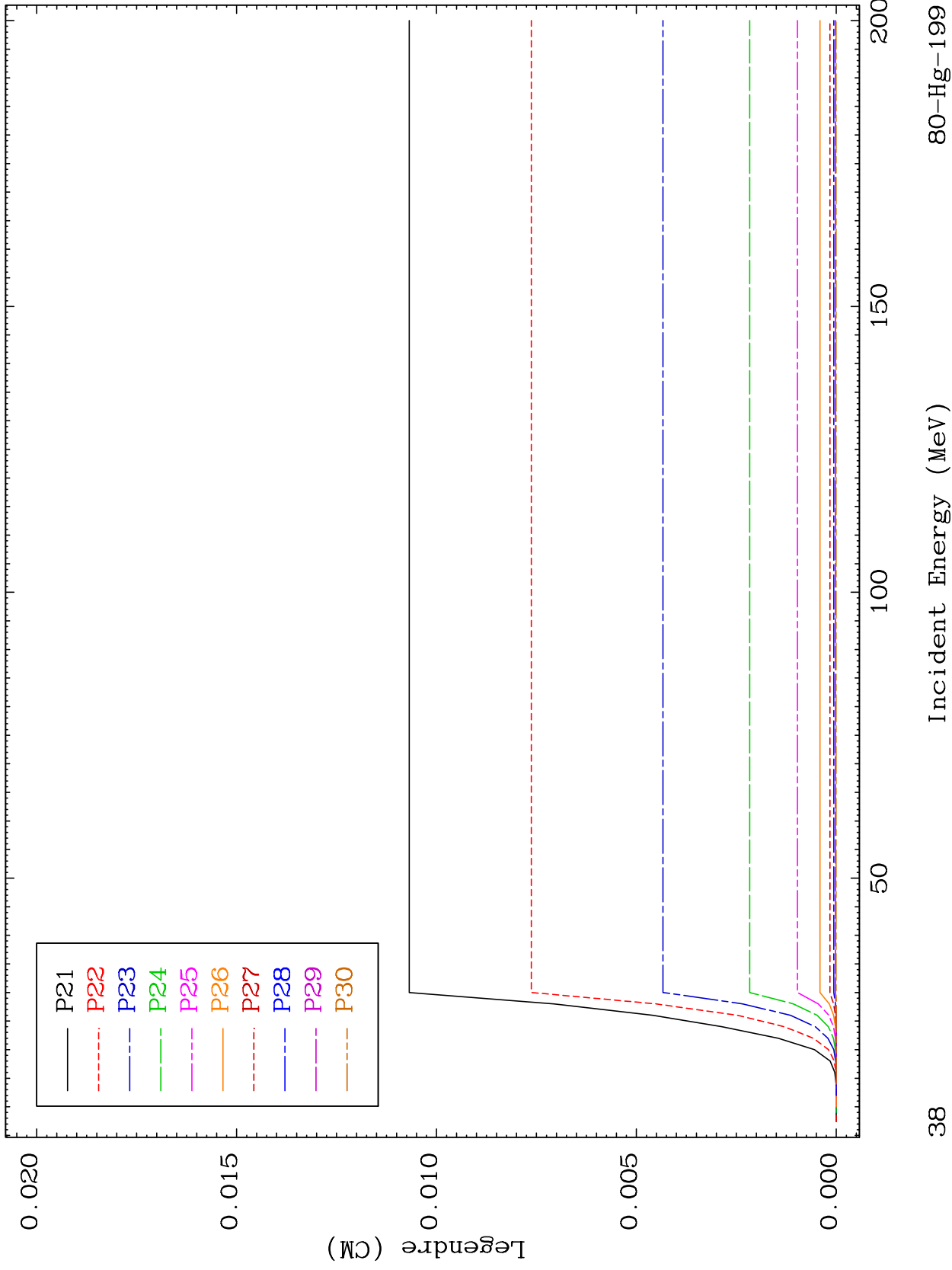
Incident Energy (MeV)

80-Hg-199

MAT 8034

455.5 keV (n,n') Level
Legendre Coefficients

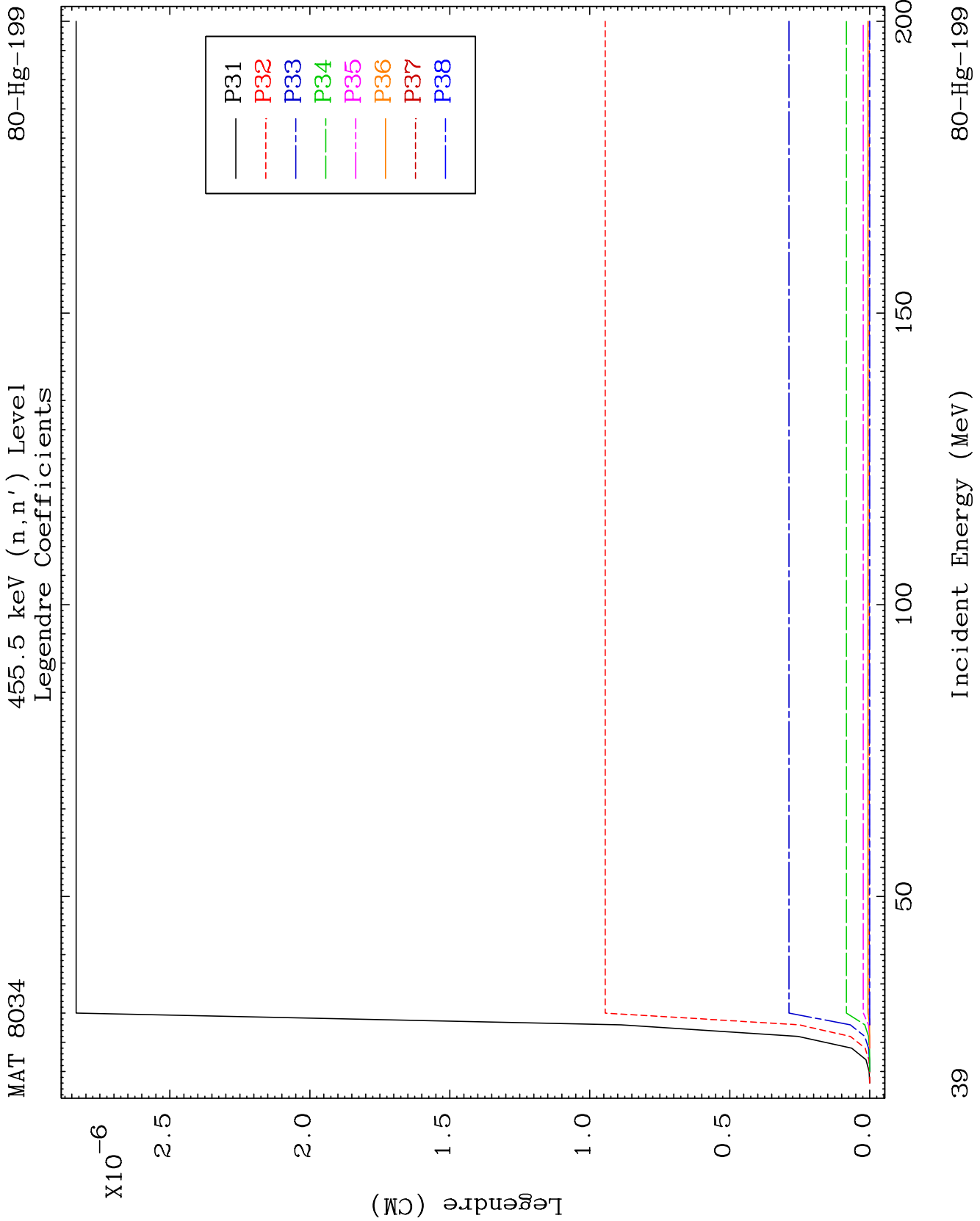
80-Hg-199



38

Incident Energy (MeV)

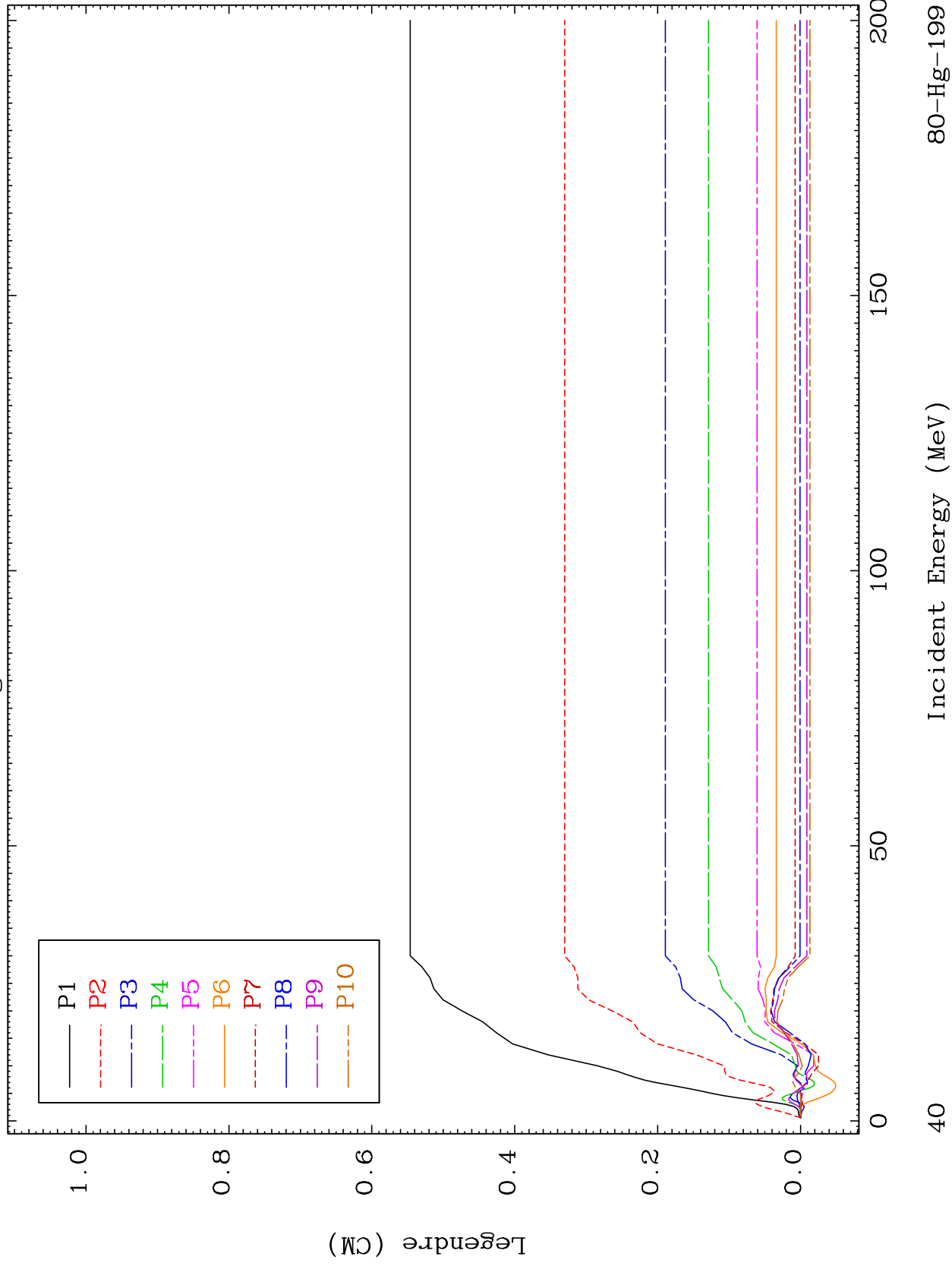
80-Hg-199



MAT 8034

492.3 keV (n,n') Level
Legendre Coefficients

80-Hg-199



80-Hg-199

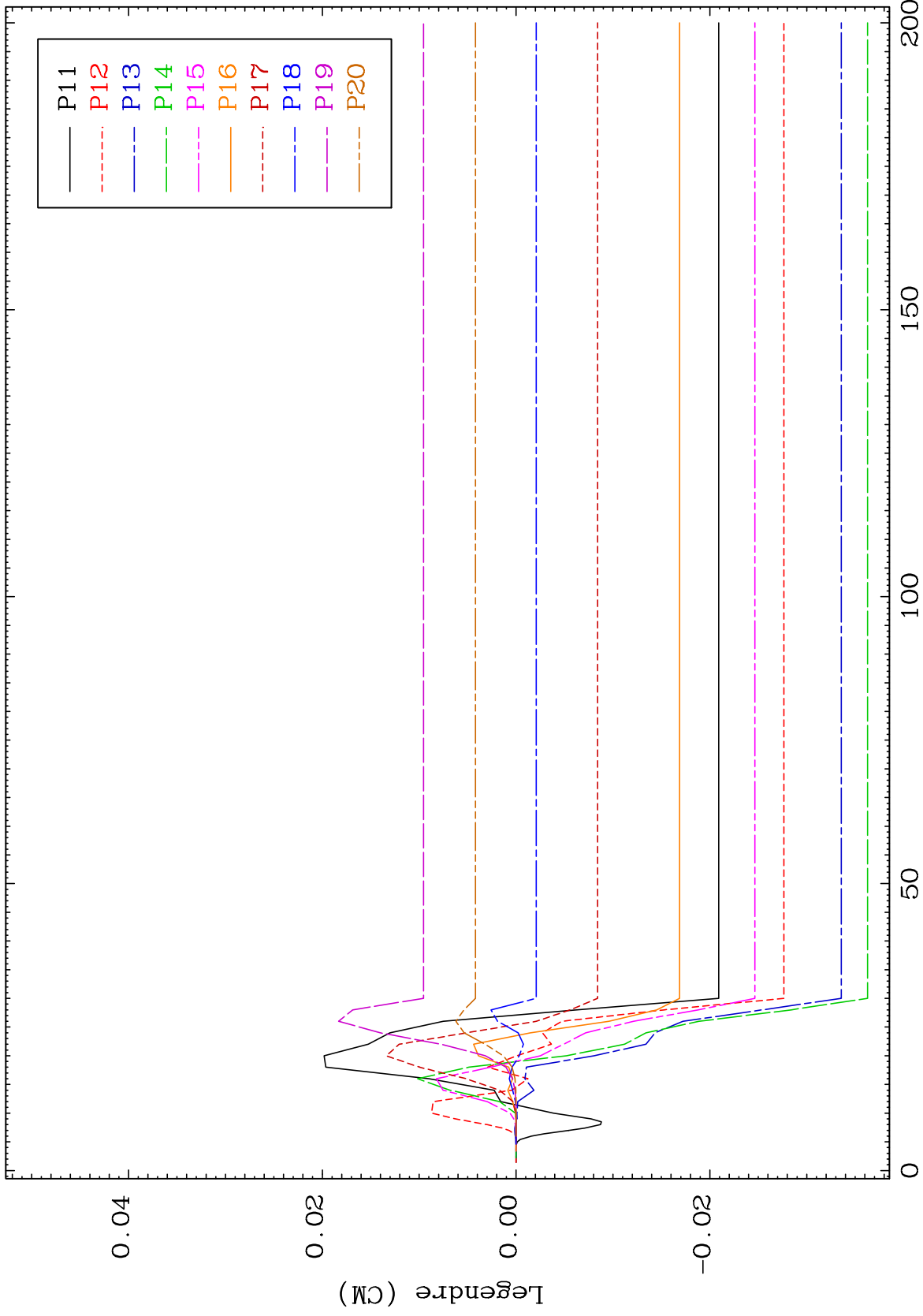
Incident Energy (MeV)

40

MAT 8034

492.3 keV (n,n') Level
Legendre Coefficients

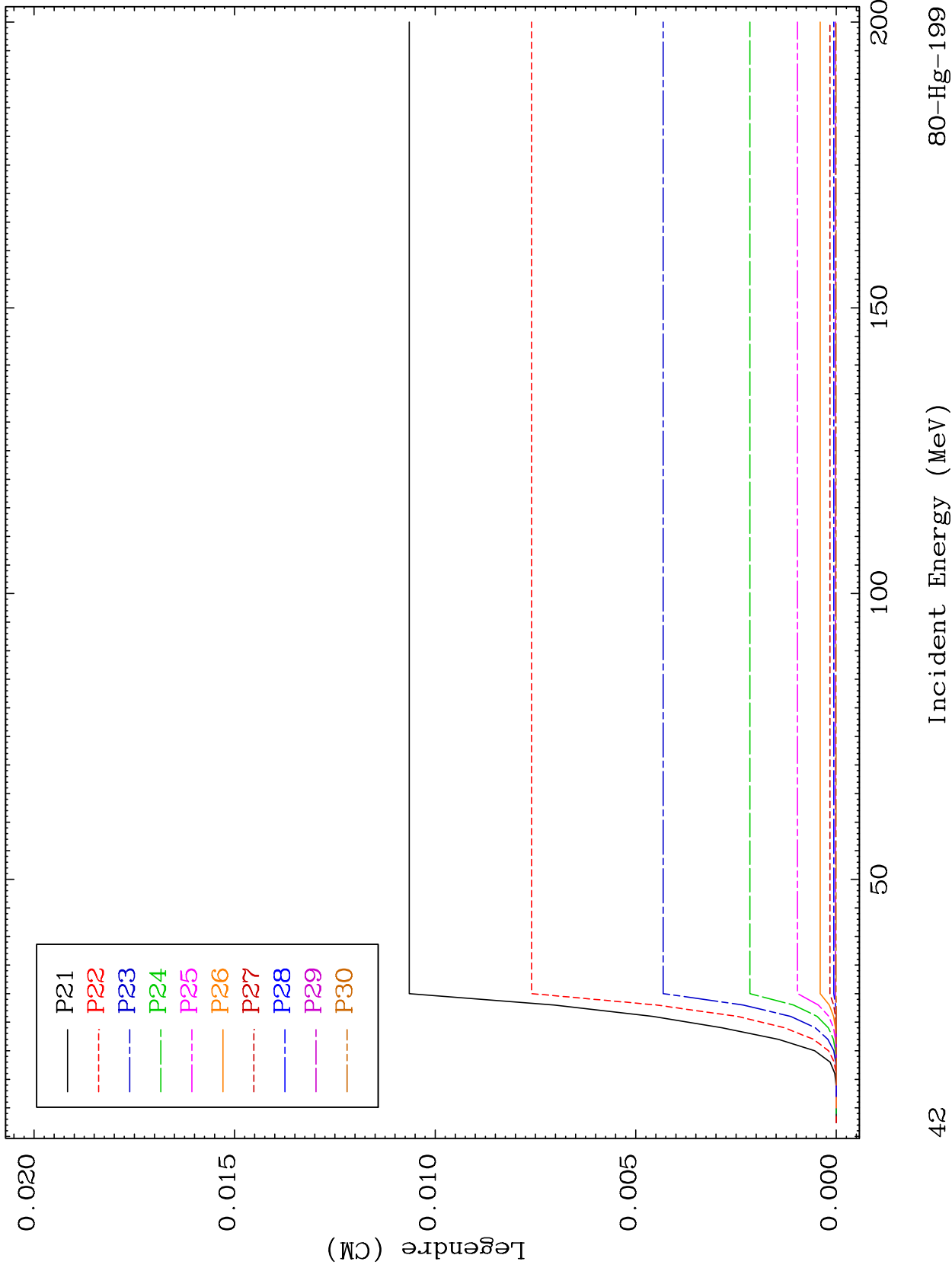
80-Hg-199



MAT 8034

492.3 keV (n,n') Level
Legendre Coefficients

80-Hg-199



42

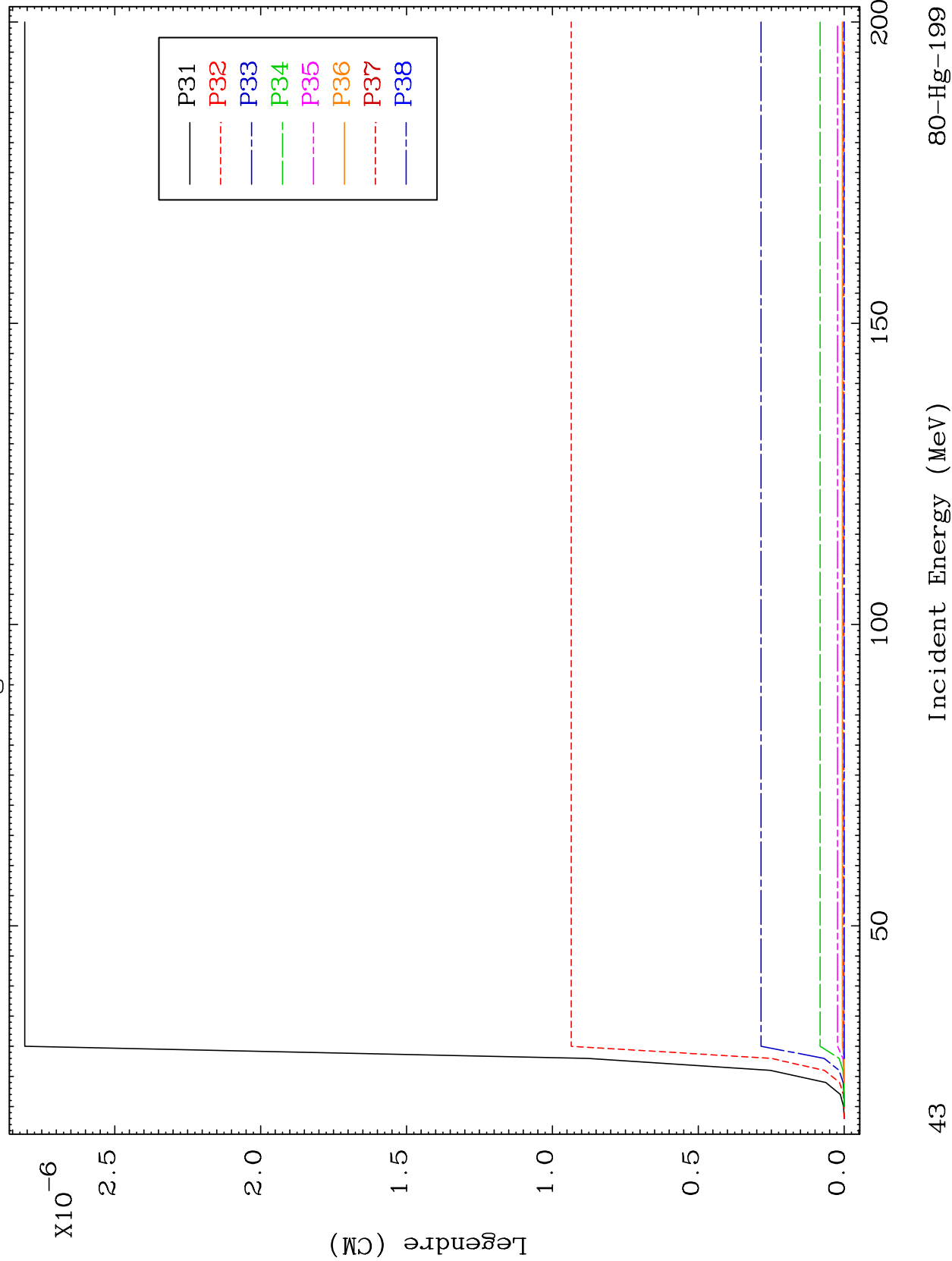
Incident Energy (MeV)

80-Hg-199

MAT 8034

492.3 keV (n,n') Level
Legendre Coefficients

80-Hg-199



80-Hg-199

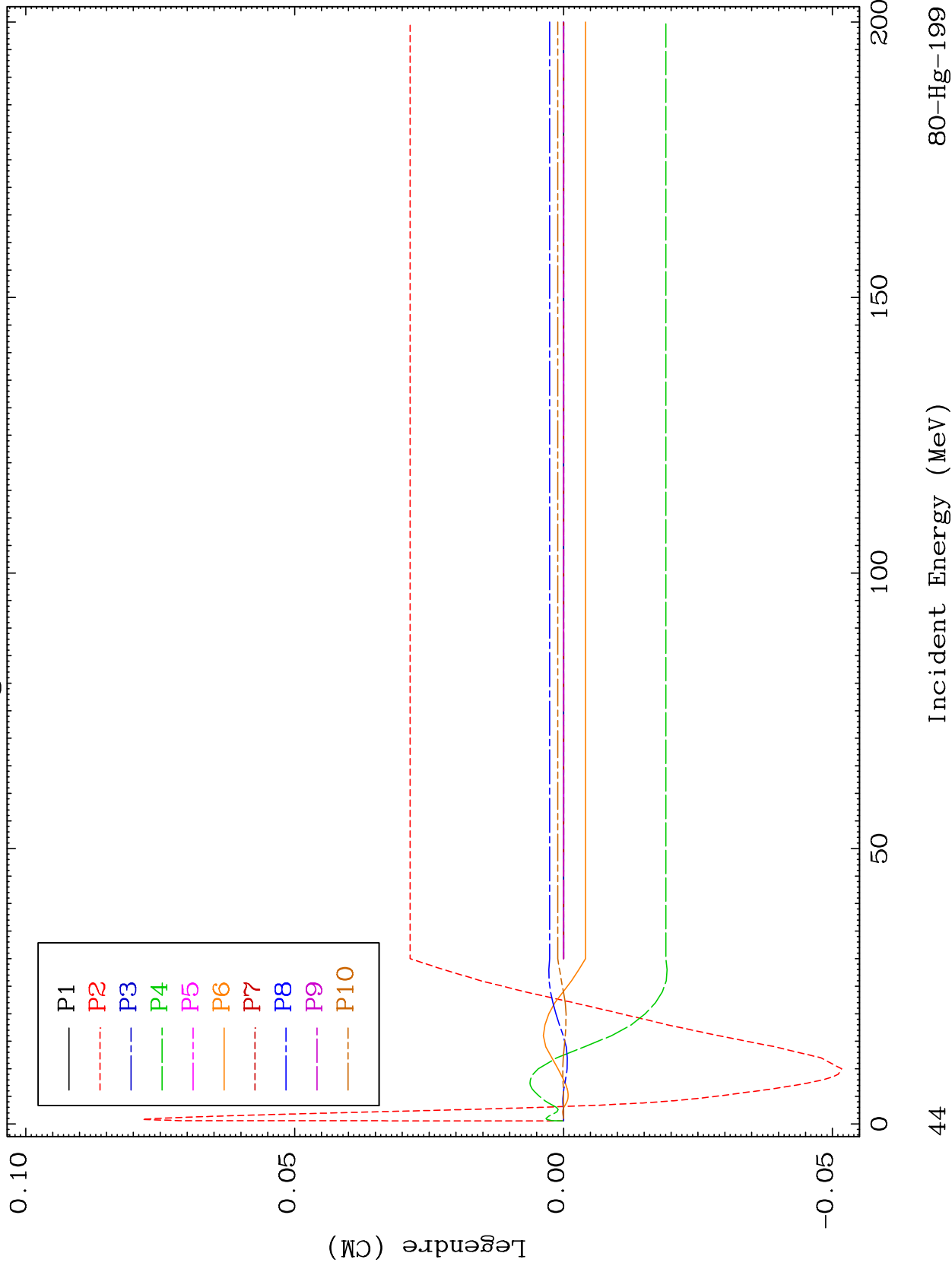
Incident Energy (MeV)

43

MAT 8034

532.5 keV (n,n') Level
Legendre Coefficients

80-Hg-199



44

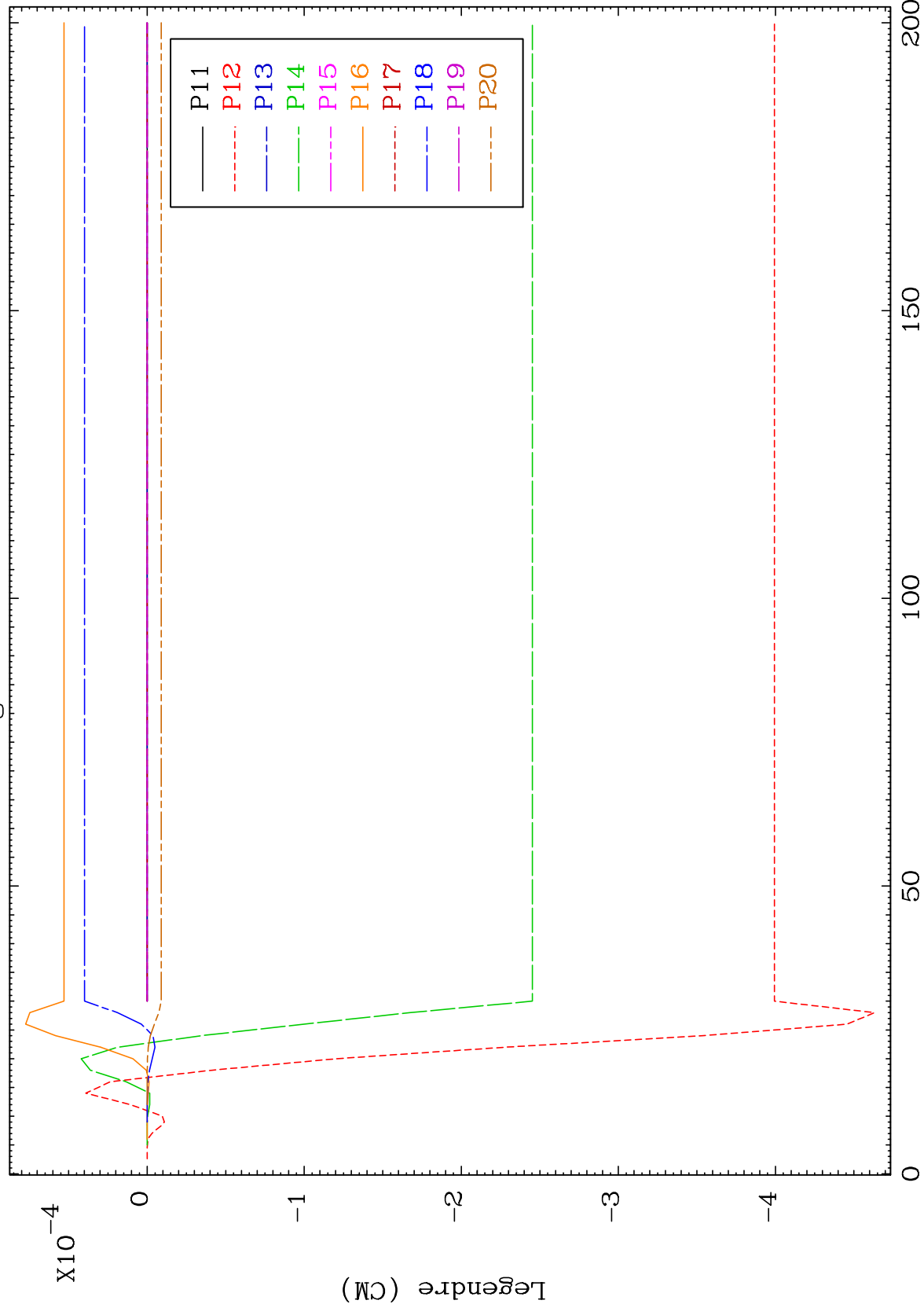
Incident Energy (MeV)

80-Hg-199

MAT 8034

532.5 keV (n,n') Level
Legendre Coefficients

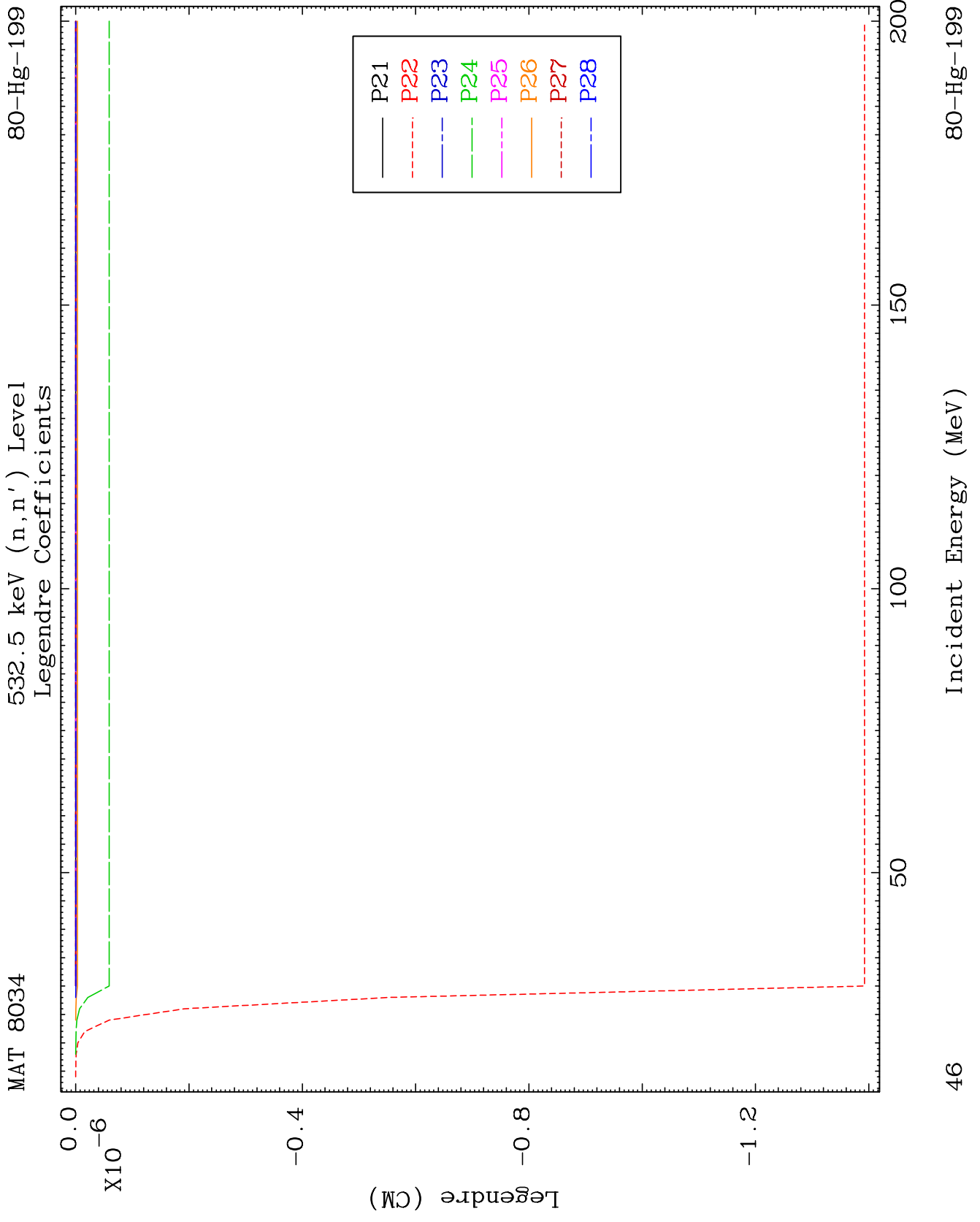
80-Hg-199

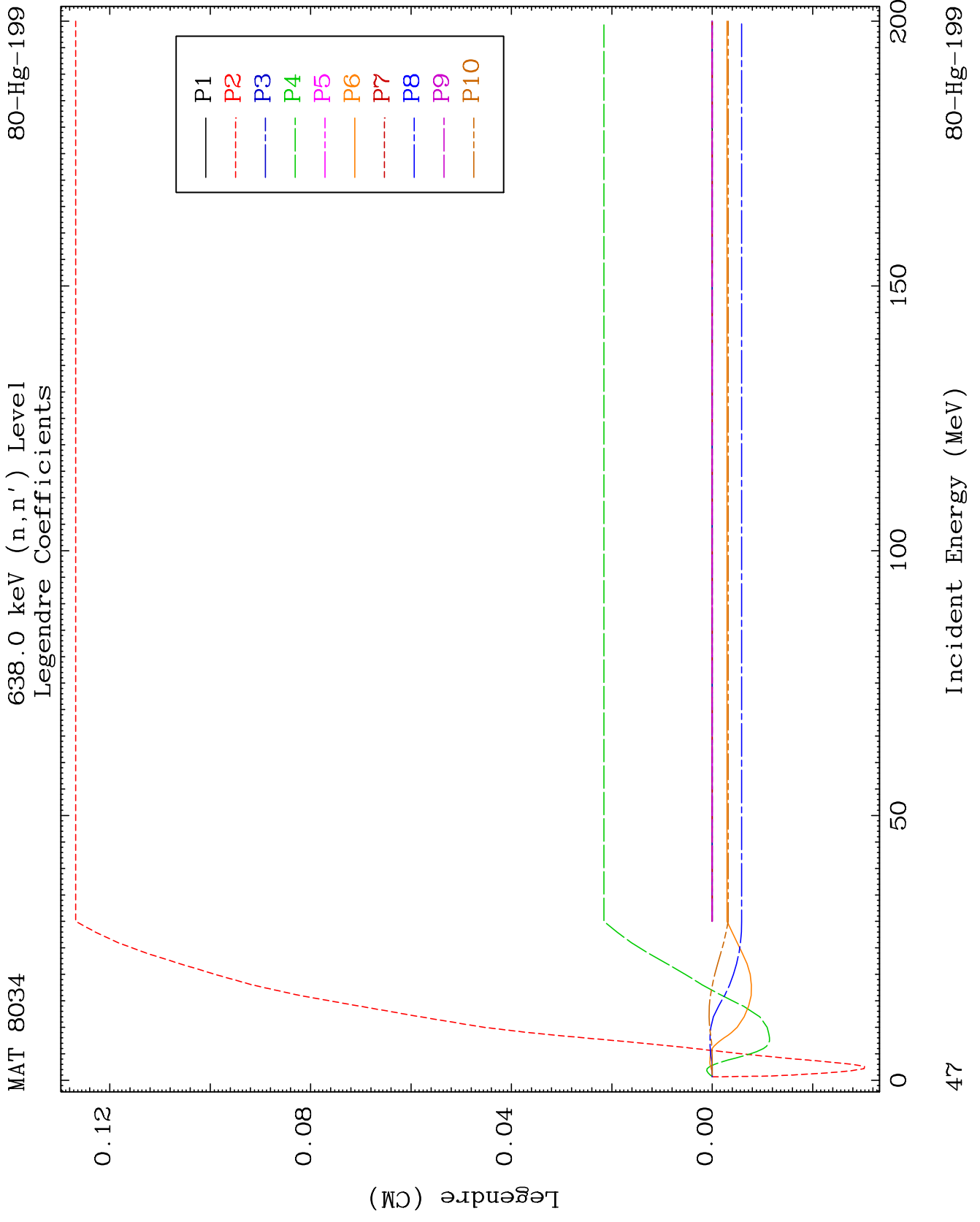


80-Hg-199

Incident Energy (MeV)

45

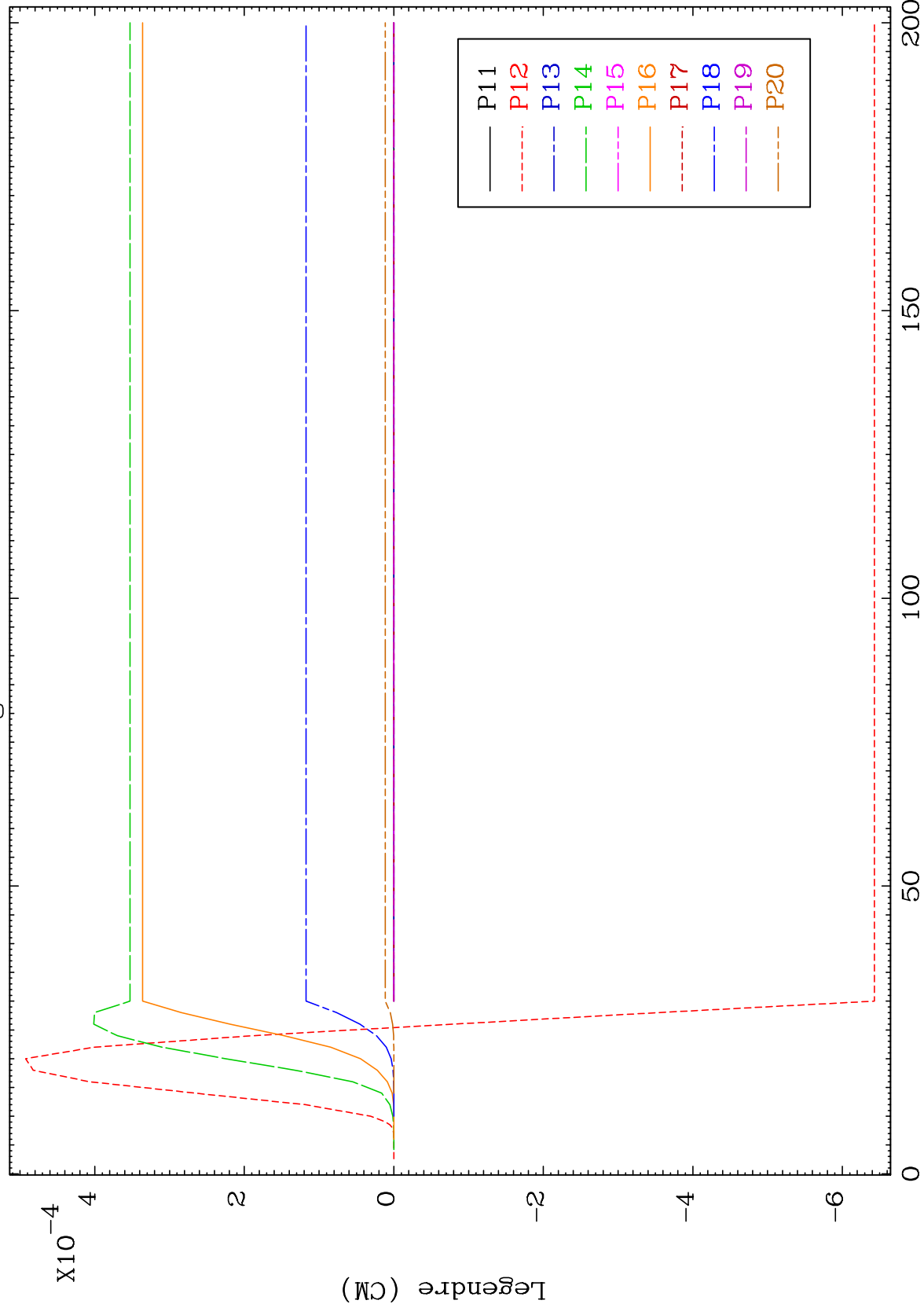




MAT 8034

638.0 keV (n,n') Level
Legendre Coefficients

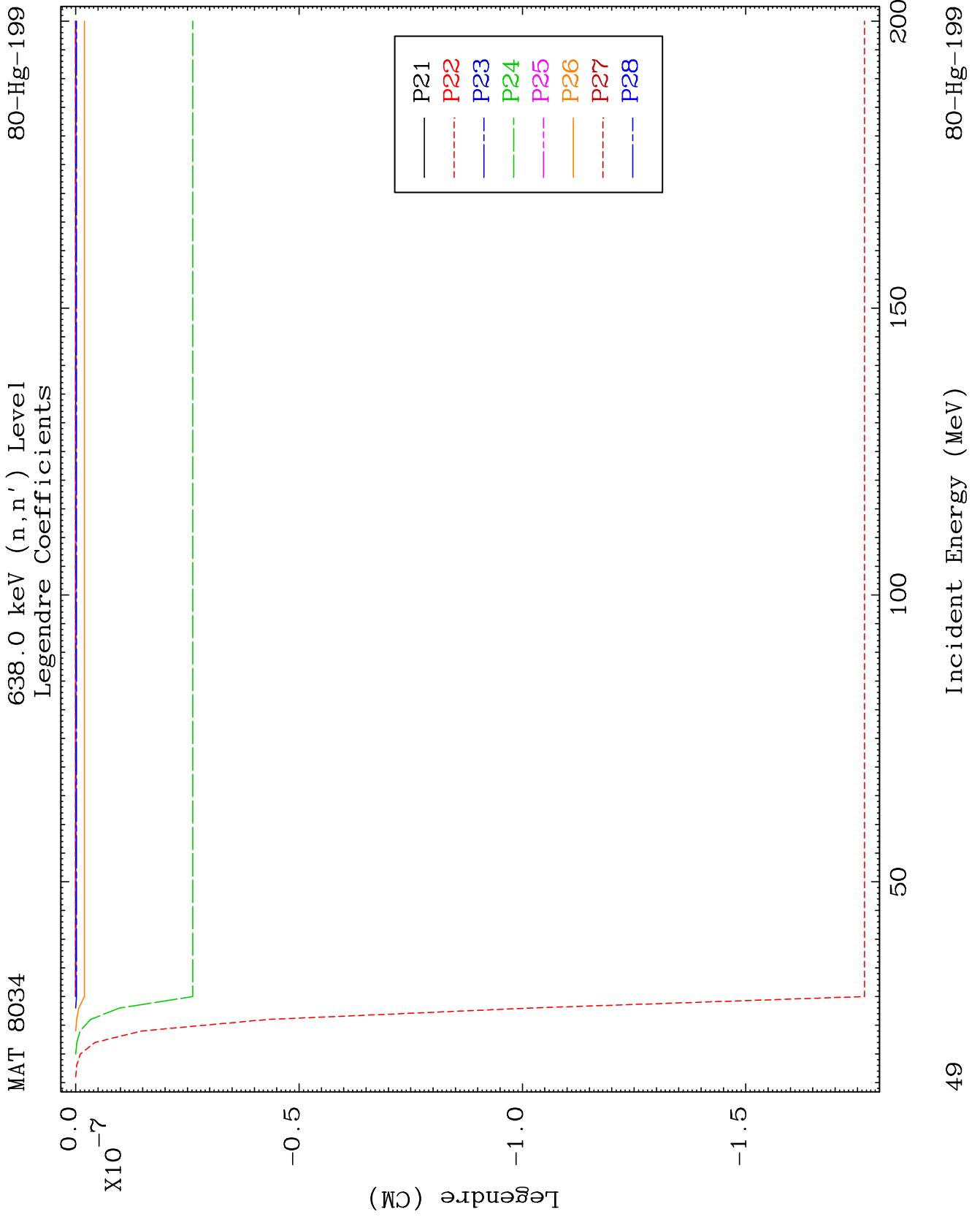
80-Hg-199

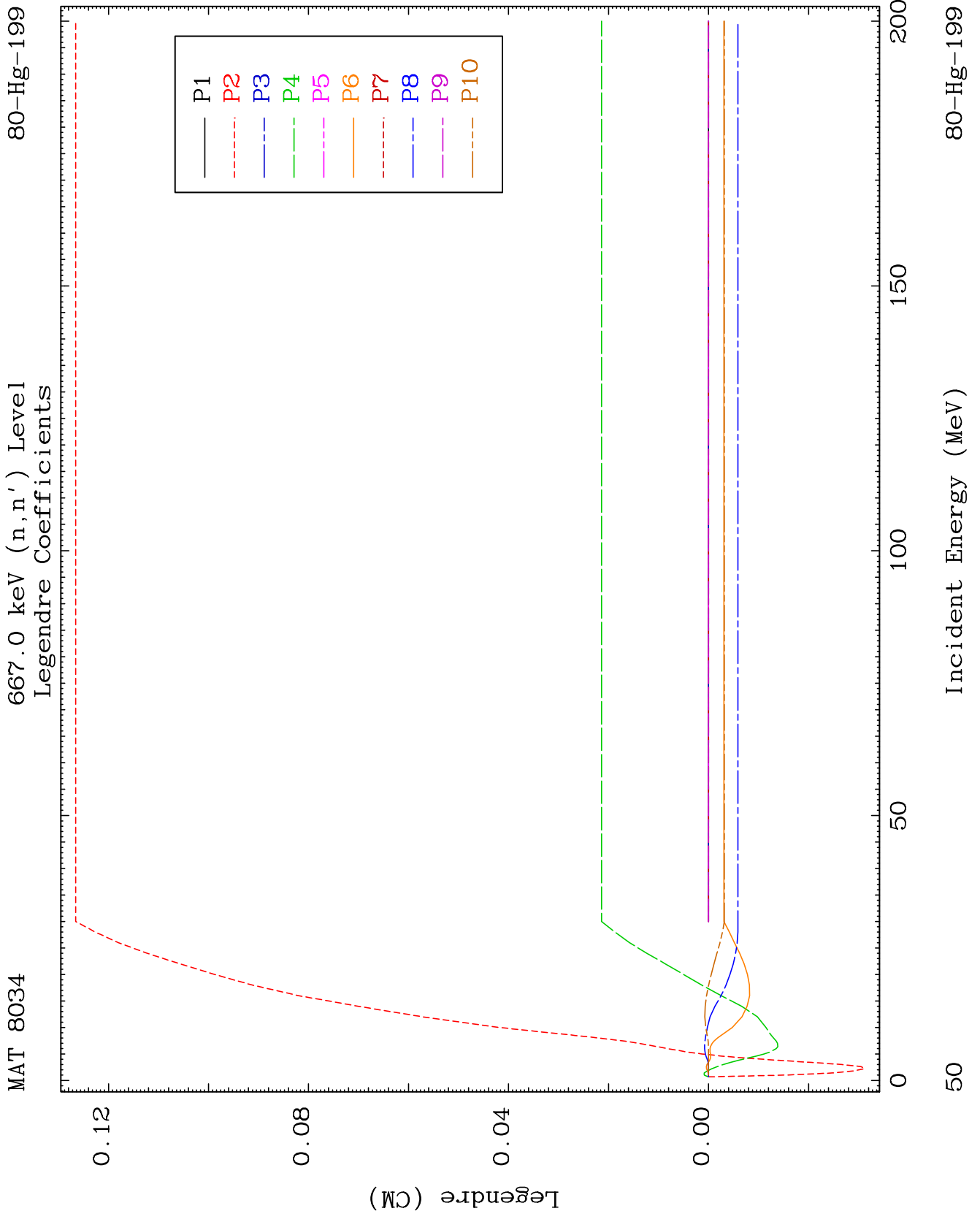


48

Incident Energy (MeV)

80-Hg-199

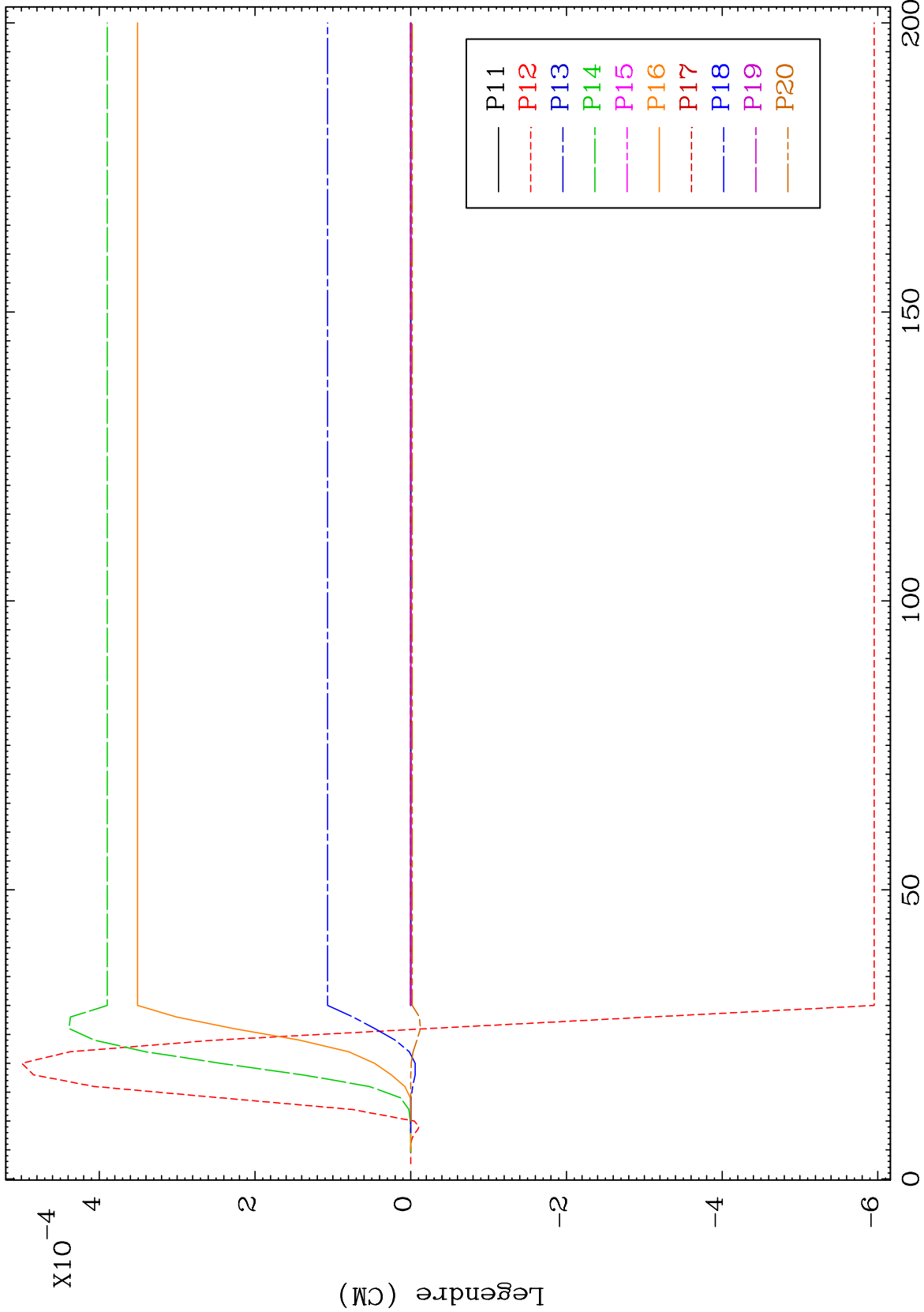




MAT 8034

667.0 keV (n,n') Level
Legendre Coefficients

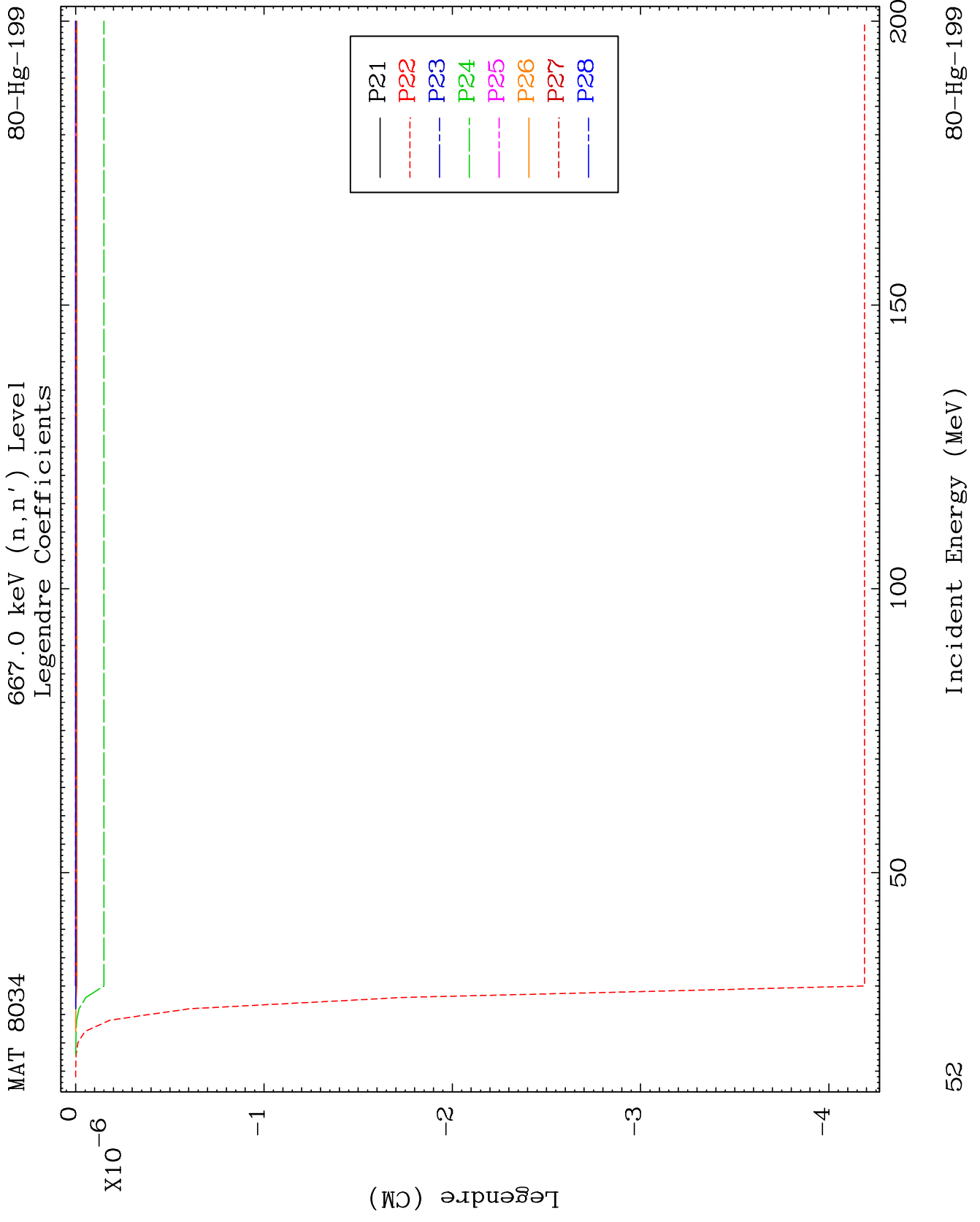
80-Hg-199



51

Incident Energy (MeV)

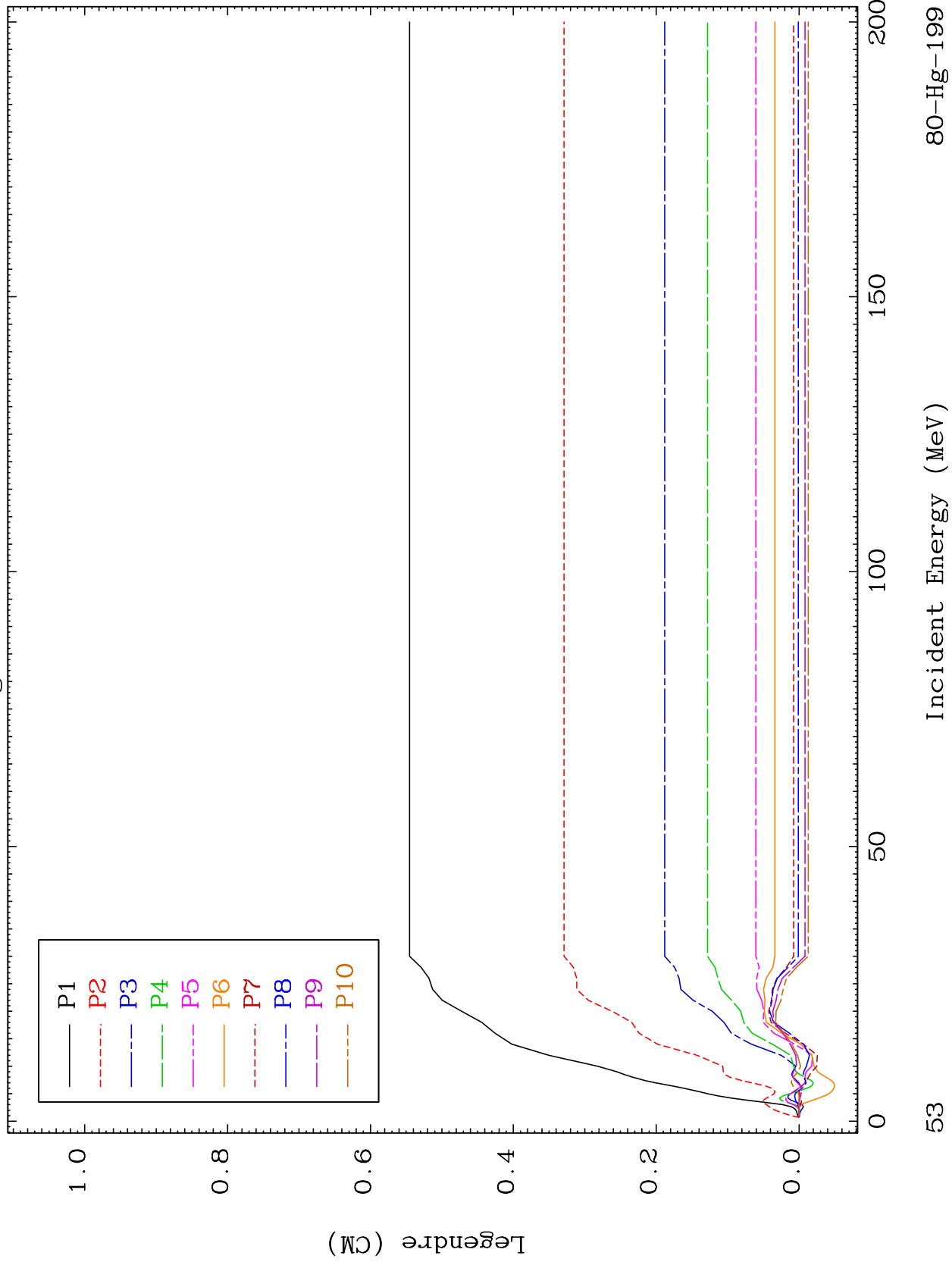
80-Hg-199



MAT 8034

681.2 keV (n,n') Level
Legendre Coefficients

80-Hg-199



53

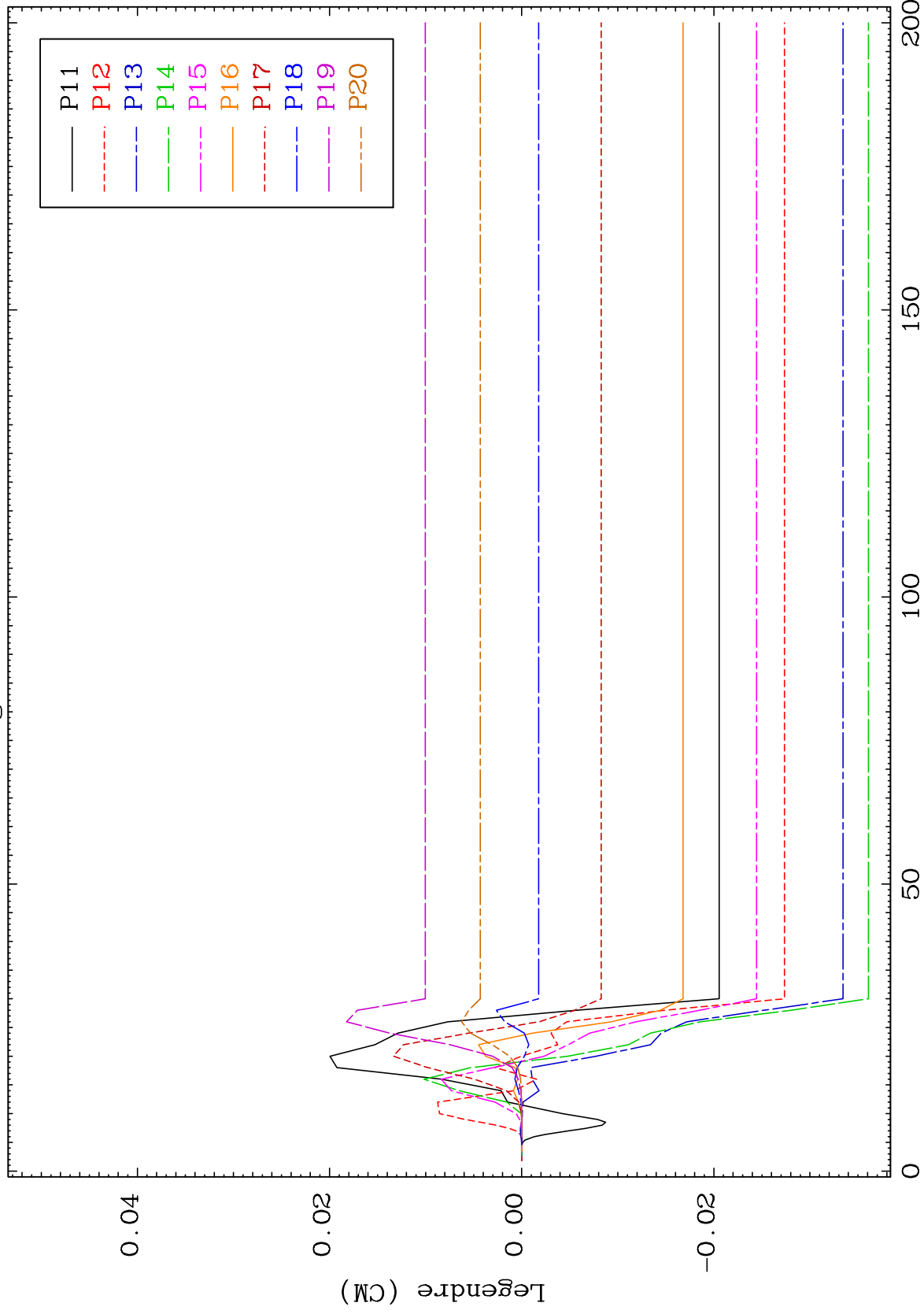
Incident Energy (MeV)

80-Hg-199

MAT 8034

681.2 keV (n,n') Level
Legendre Coefficients

80-Hg-199



54

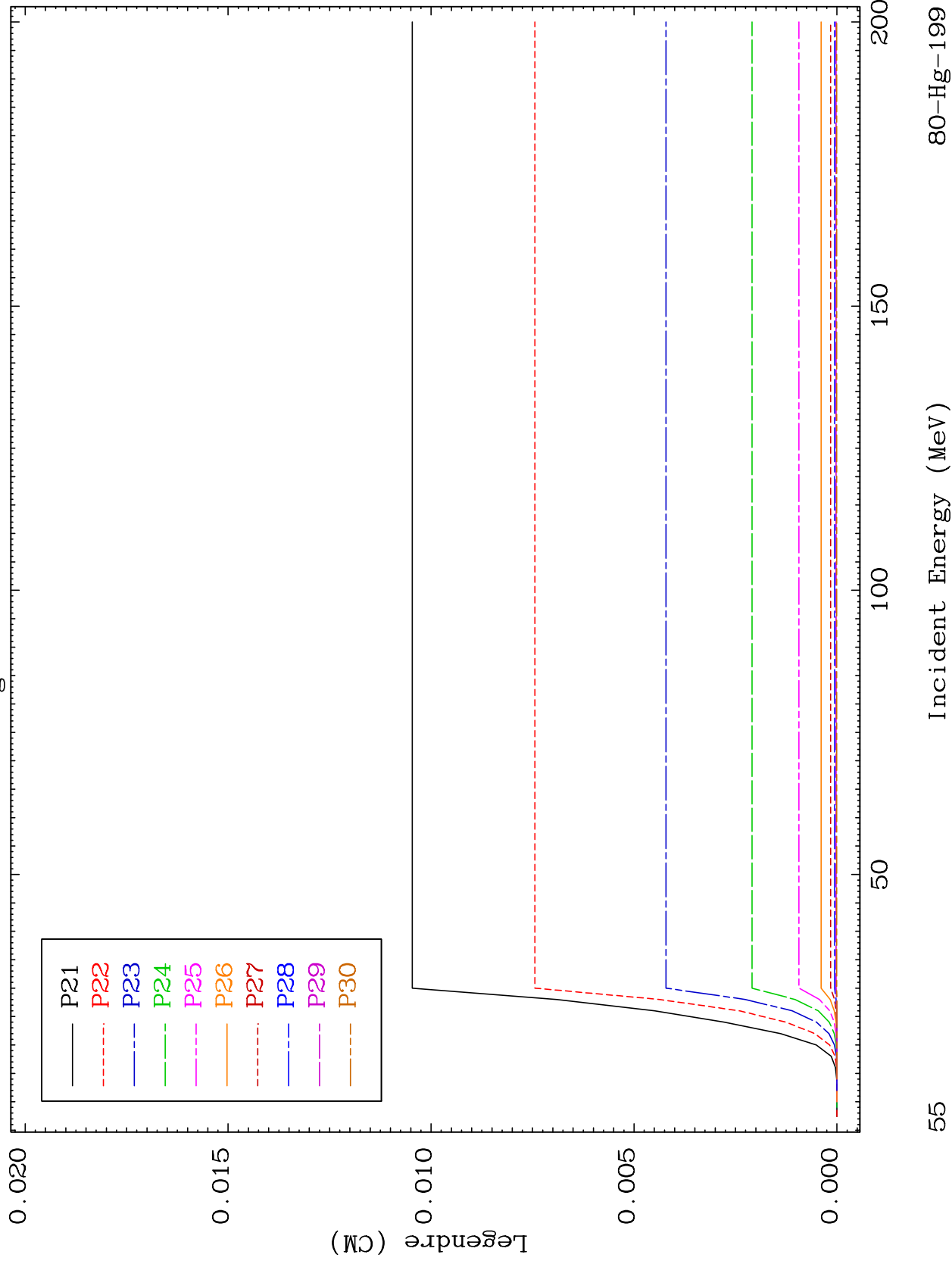
Incident Energy (MeV)

80-Hg-199

MAT 8034

681.2 keV (n,n') Level
Legendre Coefficients

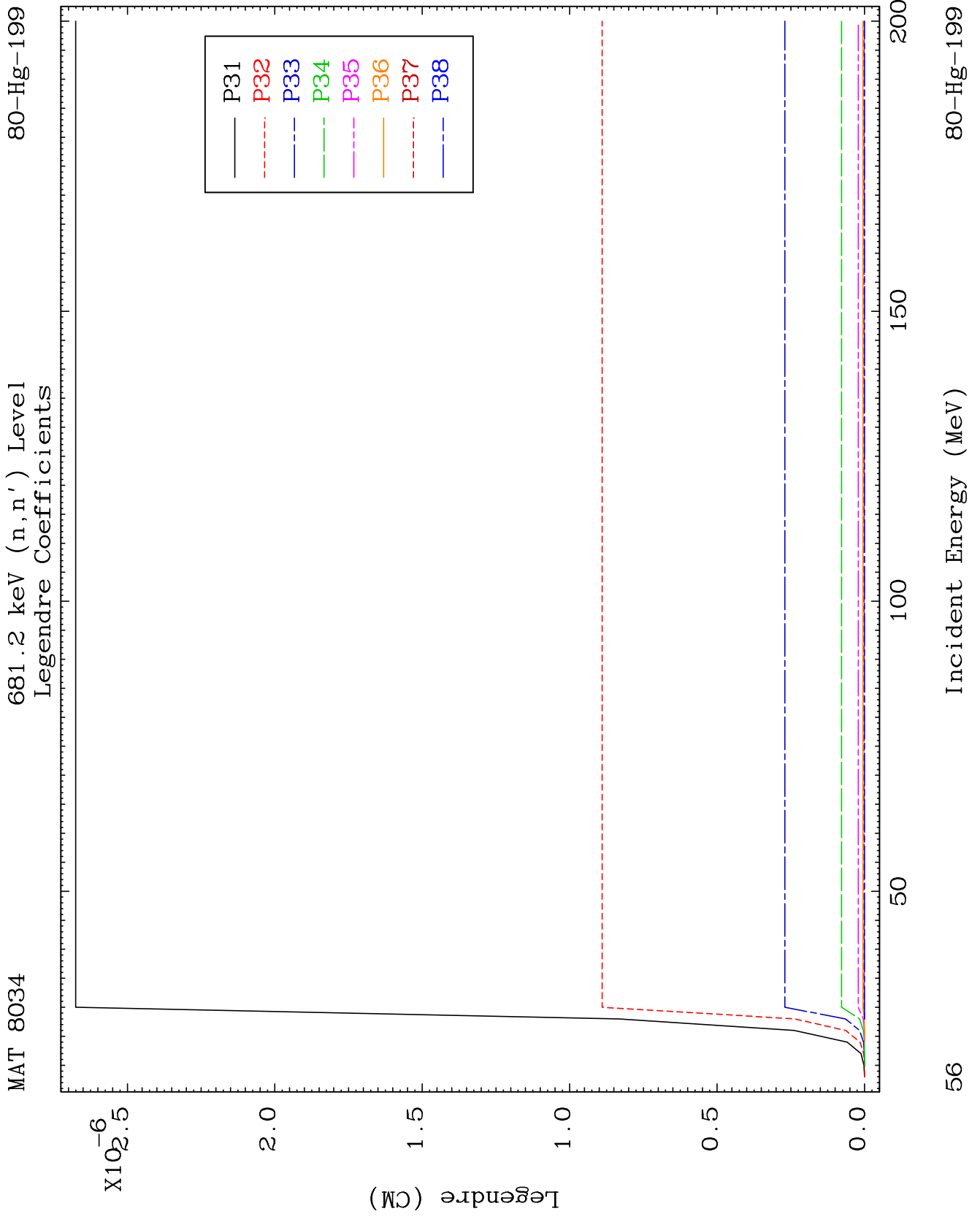
80-Hg-199

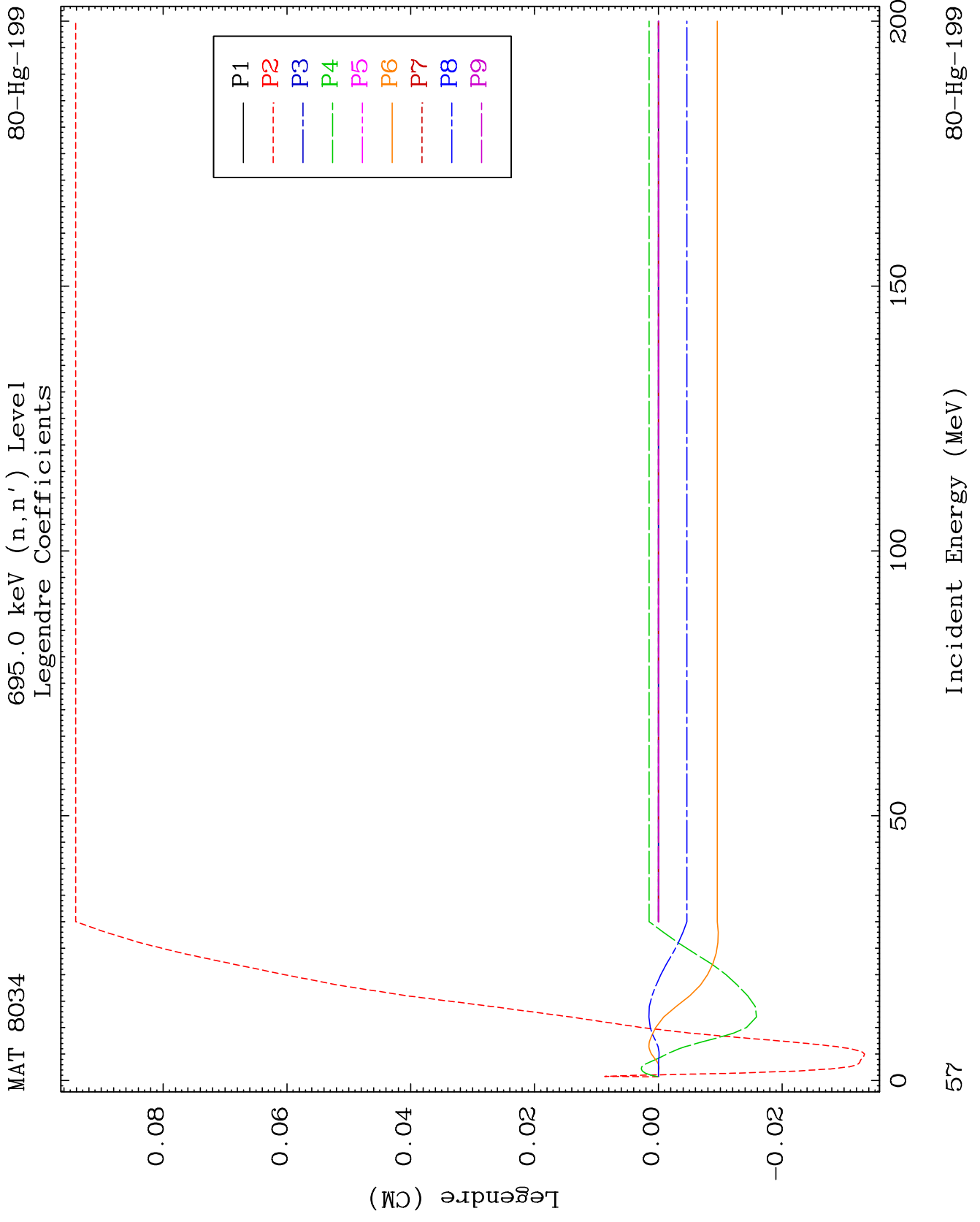


55

Incident Energy (MeV)

80-Hg-199

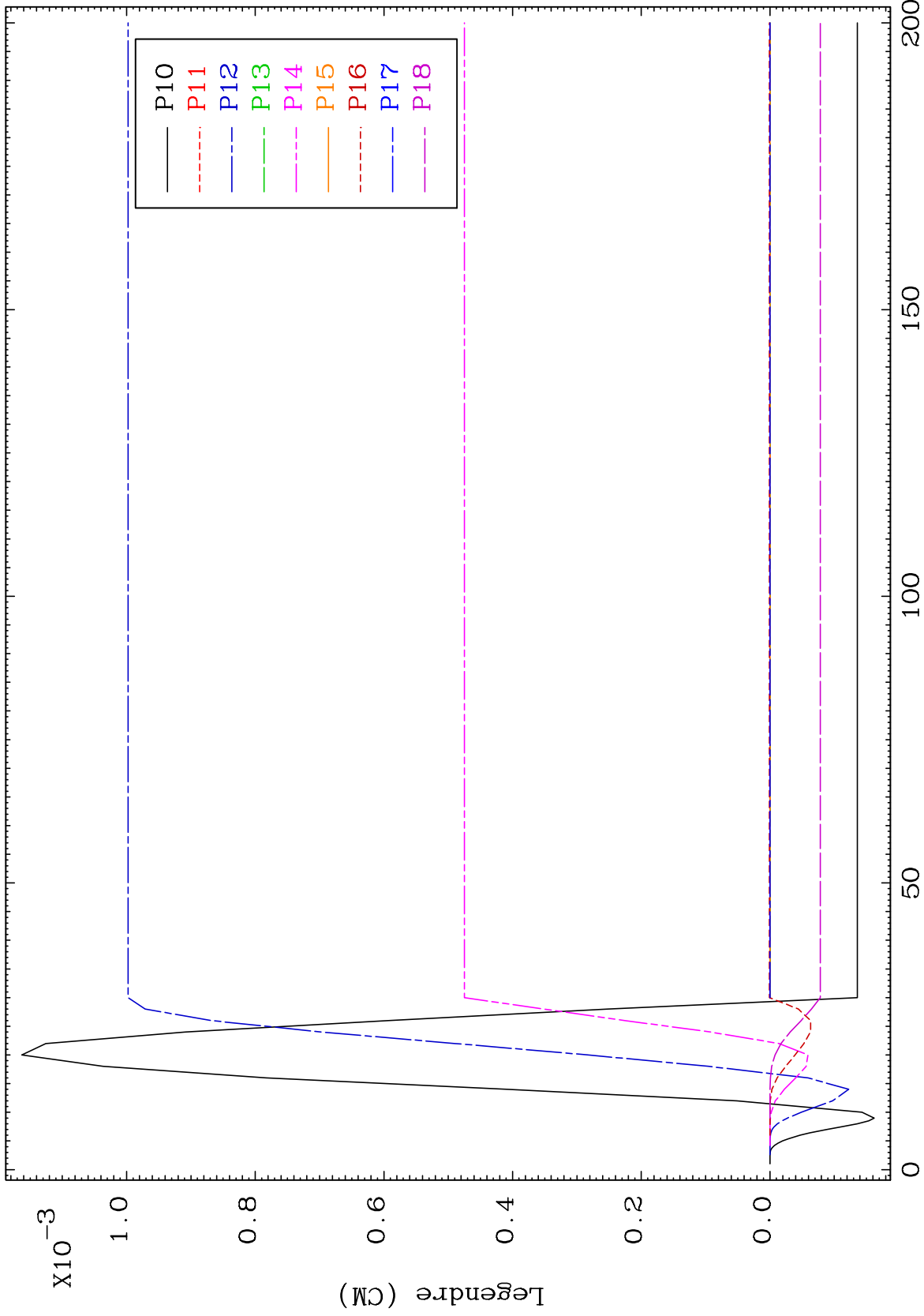




MAT 8034

695.0 keV (n,n') Level
Legendre Coefficients

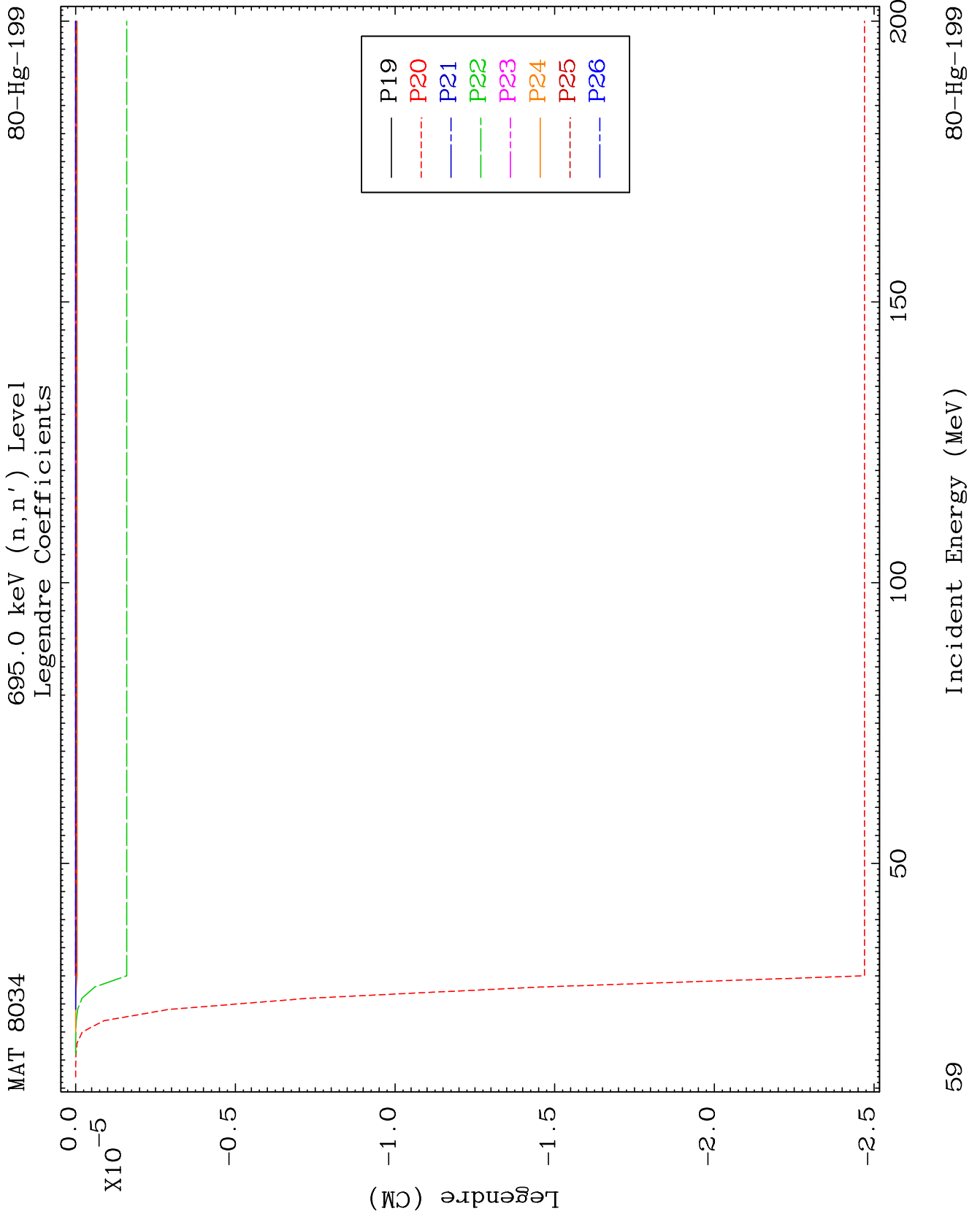
80-Hg-199



58

Incident Energy (MeV)

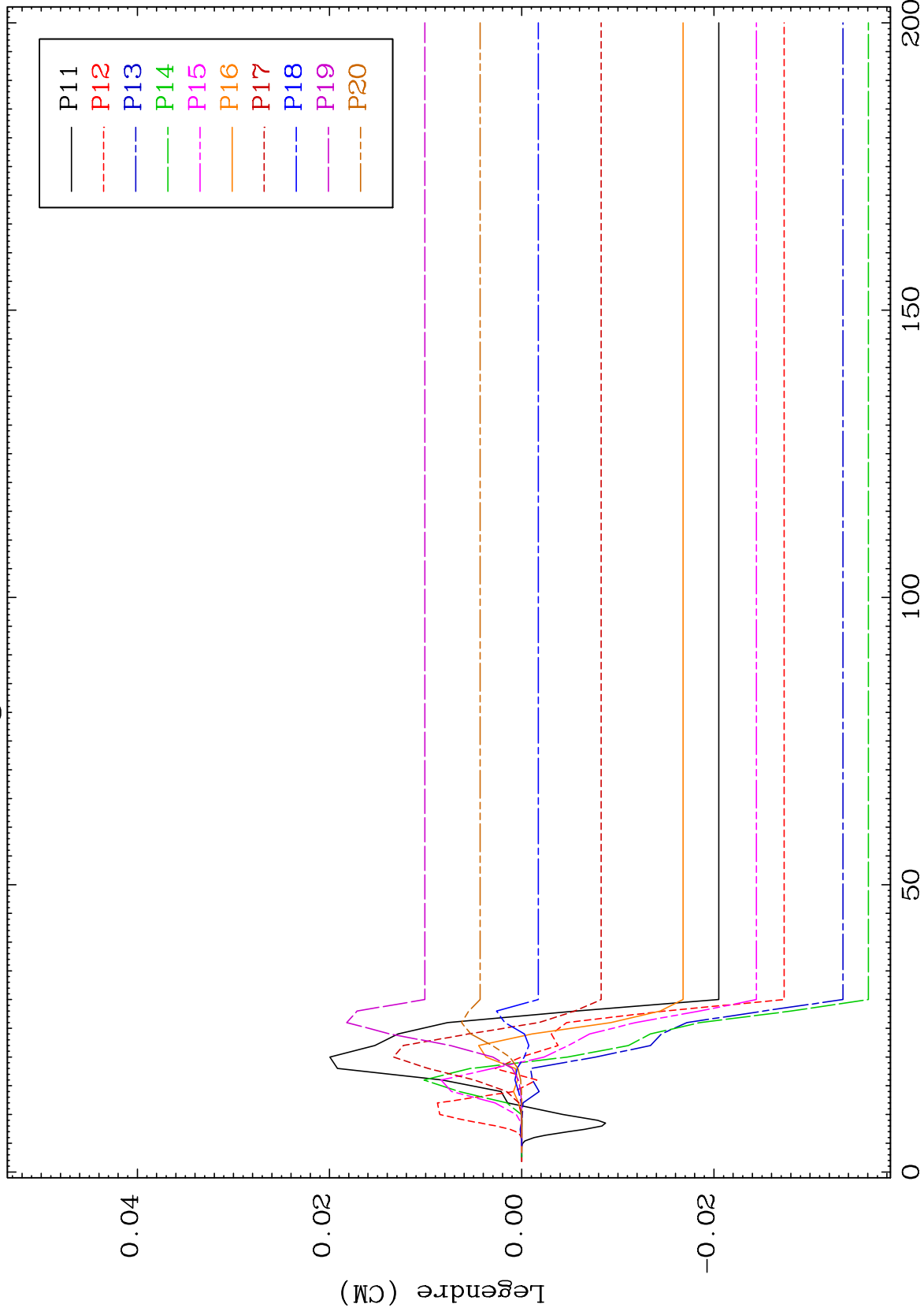
80-Hg-199



MAT 8034

699.0 keV (n,n') Level
Legendre Coefficients

80-Hg-199



61

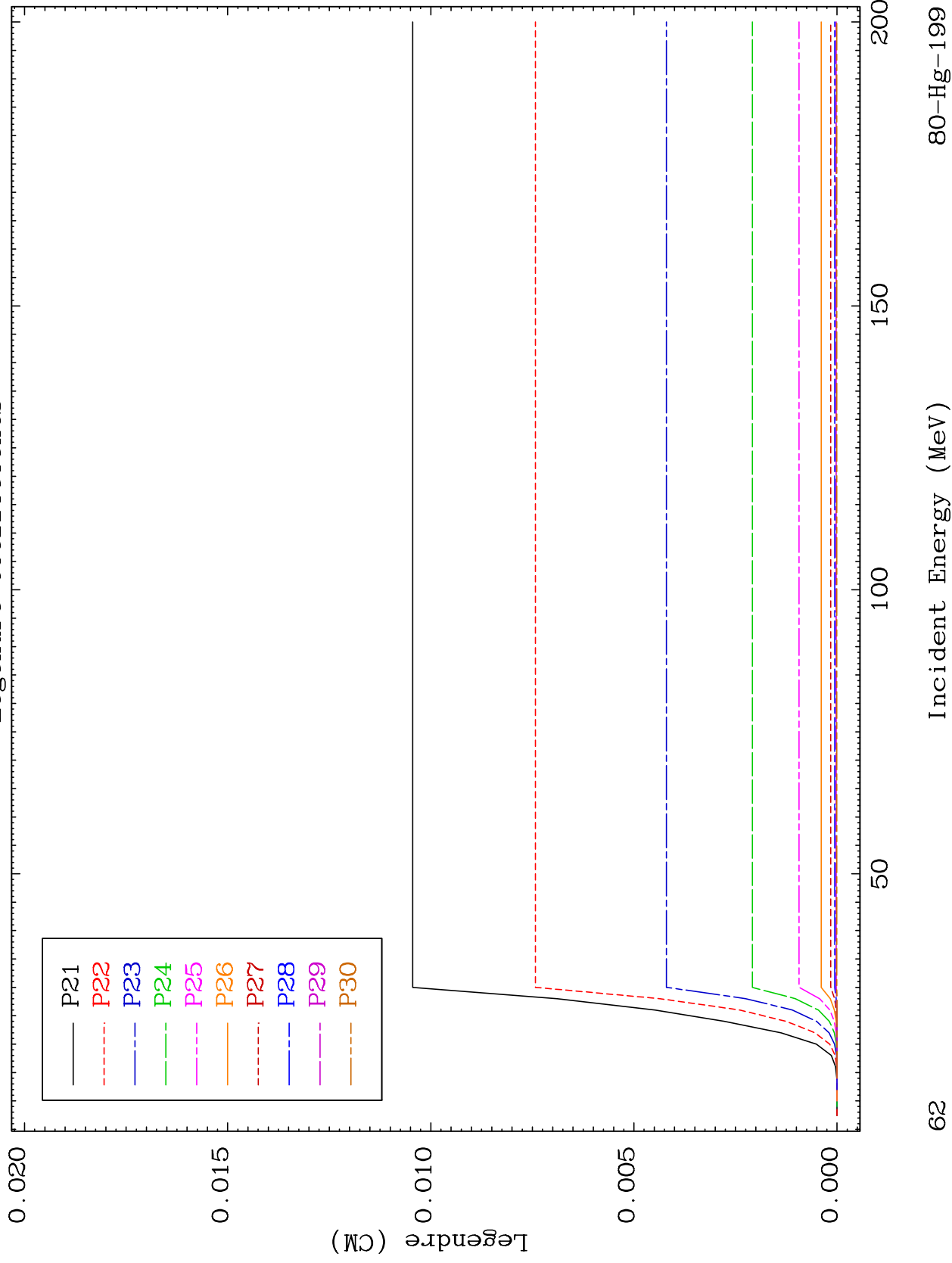
Incident Energy (MeV)

80-Hg-199

MAT 8034

699.0 keV (n,n') Level
Legendre Coefficients

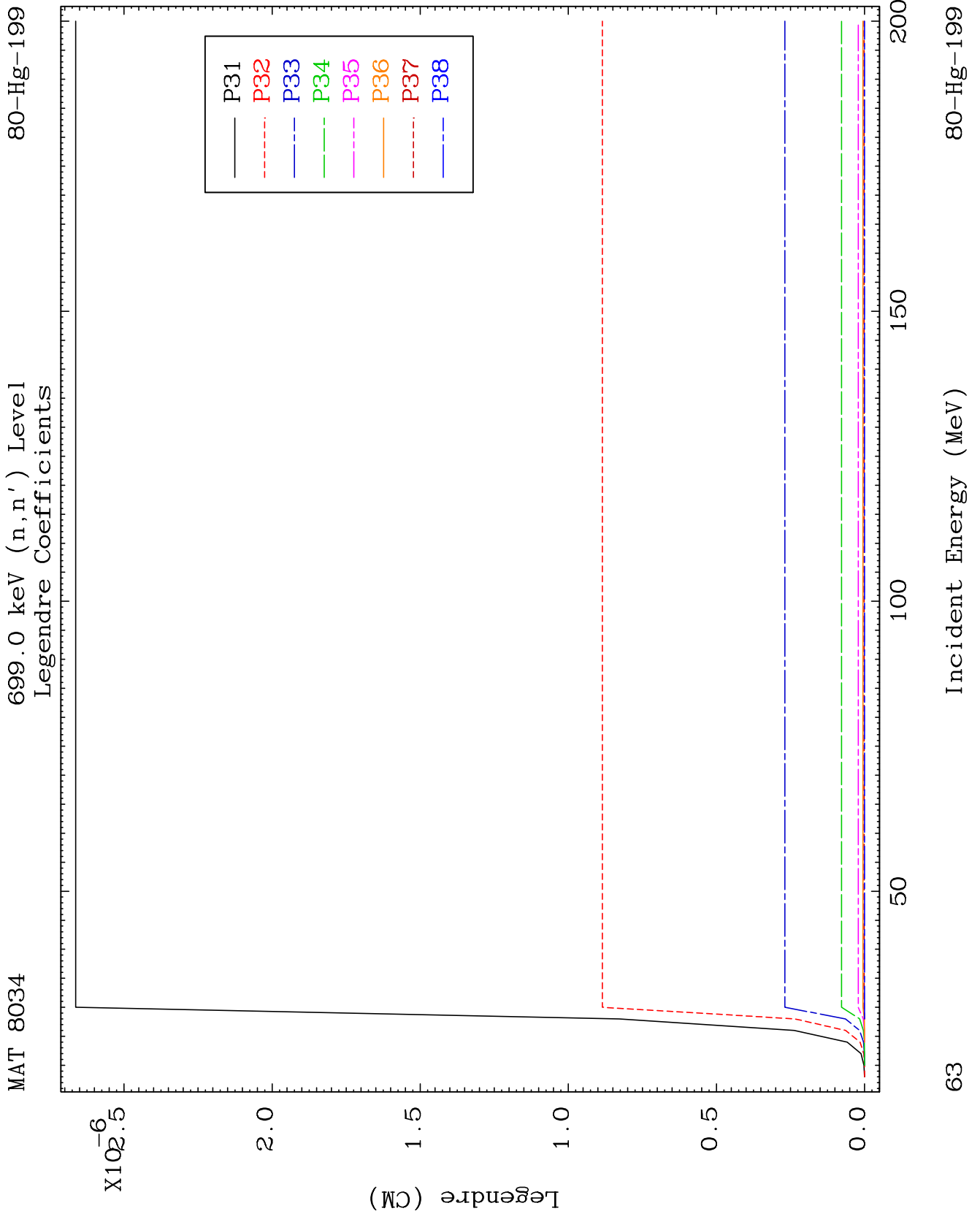
80-Hg-199

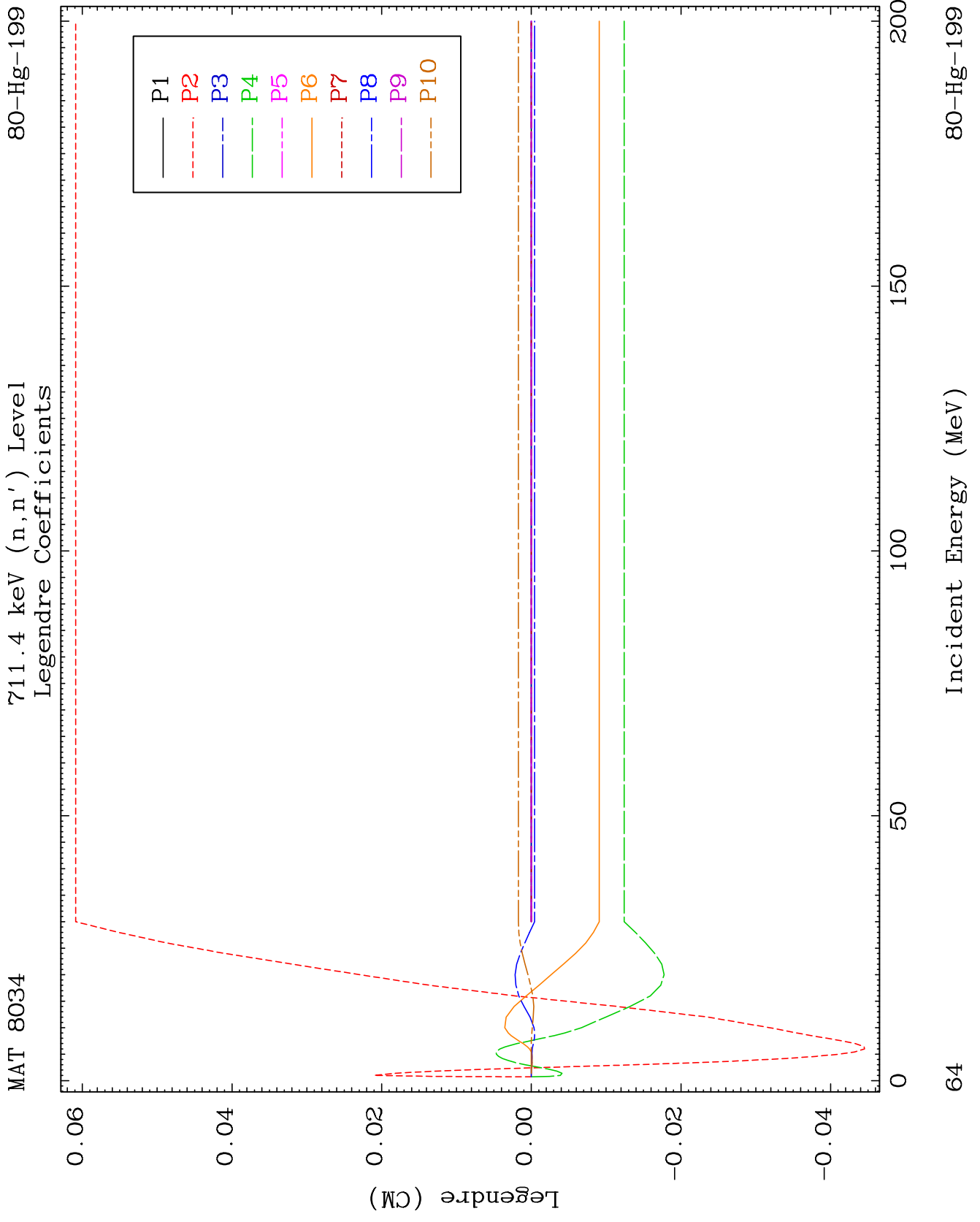


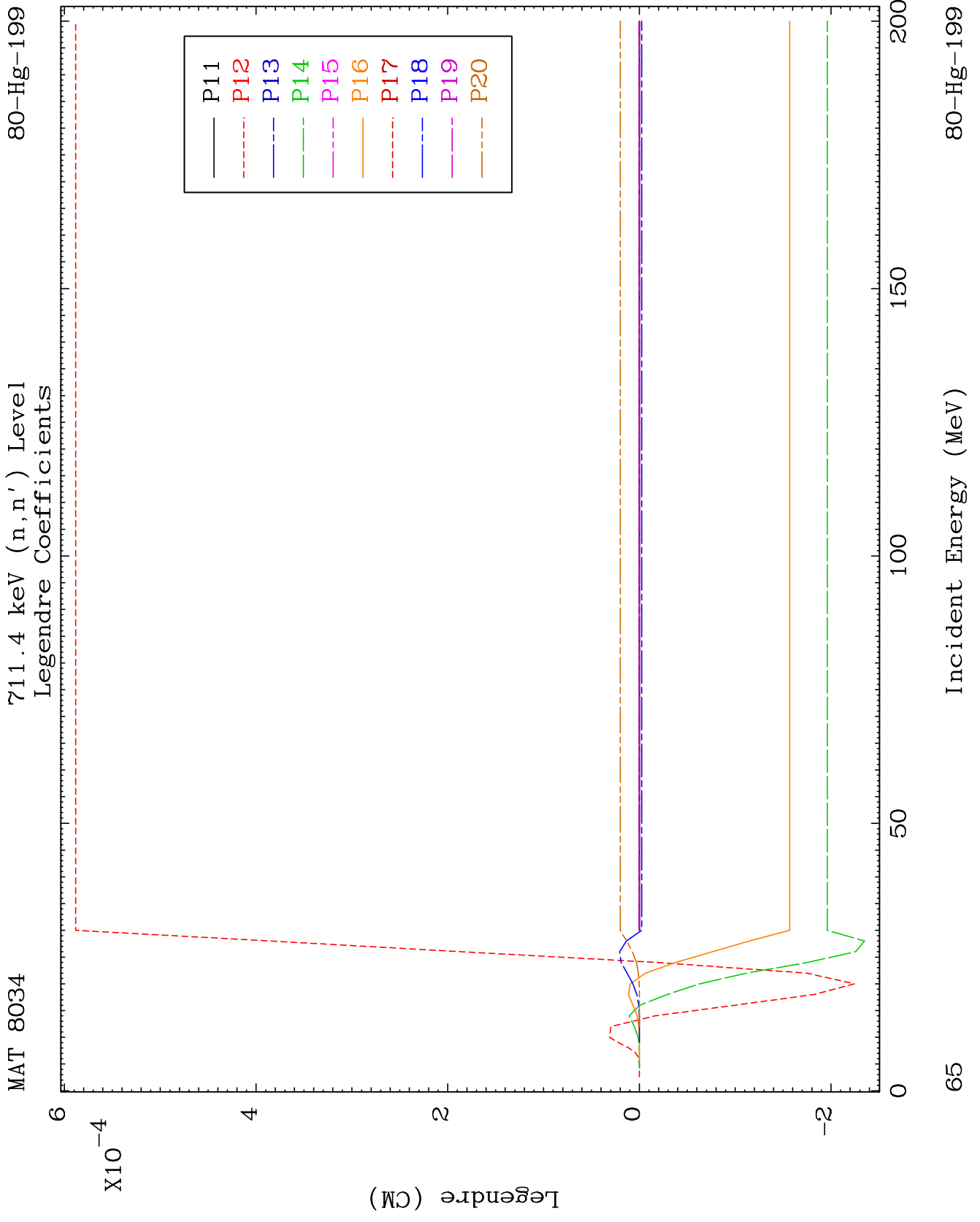
62

Incident Energy (MeV)

80-Hg-199



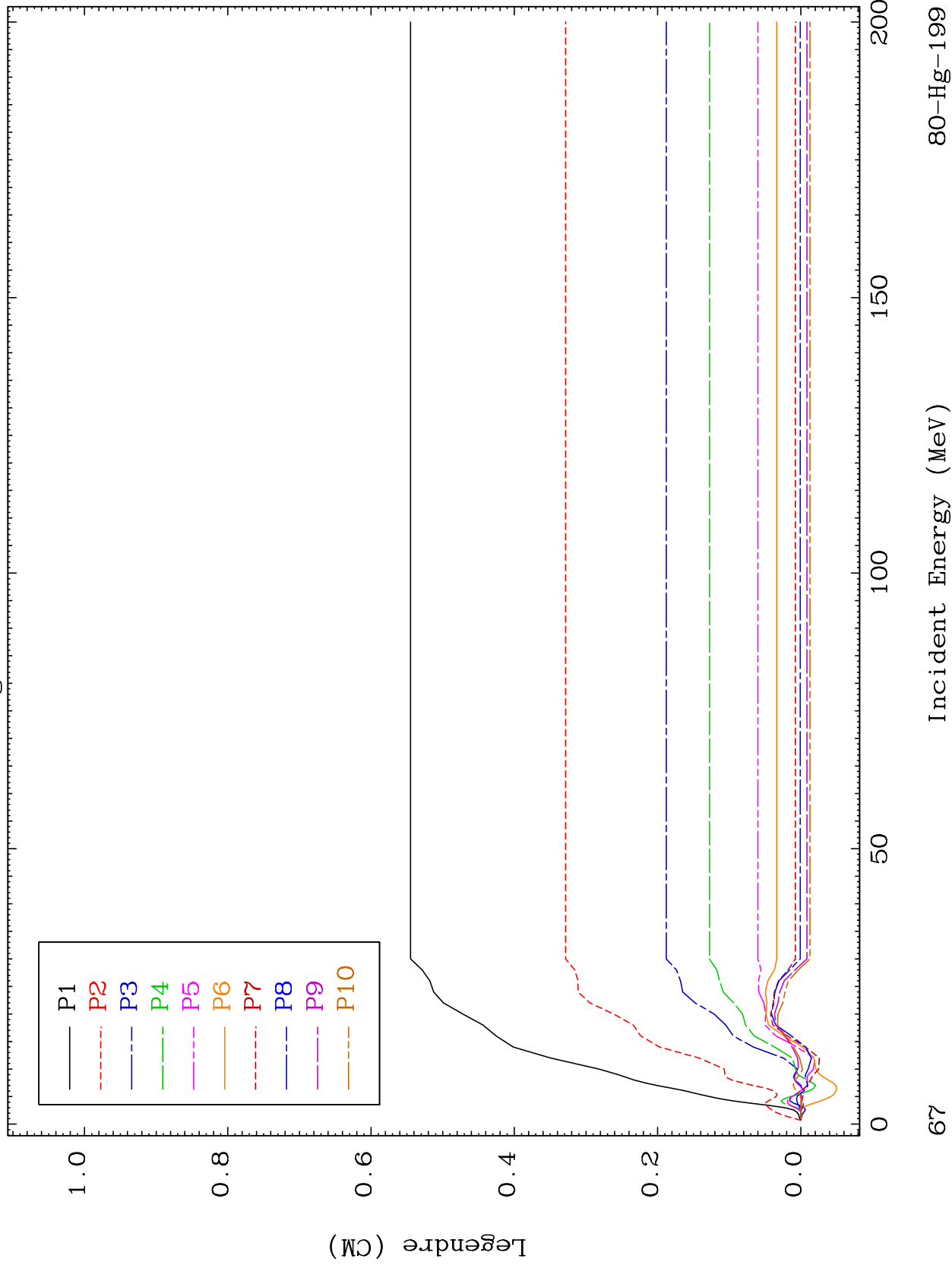




MAT 8034

736.0 keV (n,n') Level
Legendre Coefficients

80-Hg-199



80-Hg-199

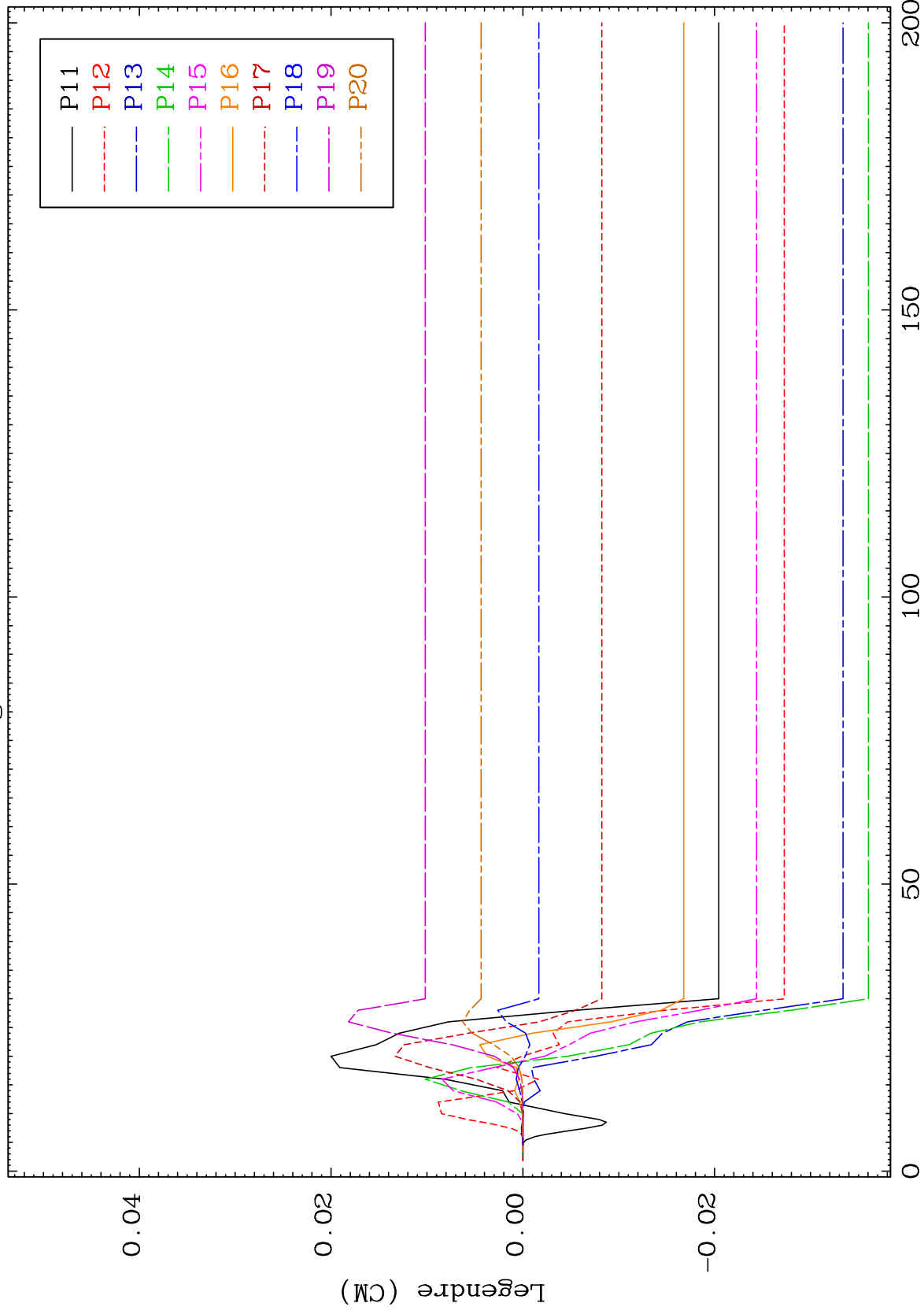
Incident Energy (MeV)

67

MAT 8034

736.0 keV (n,n') Level
Legendre Coefficients

80-Hg-199



68

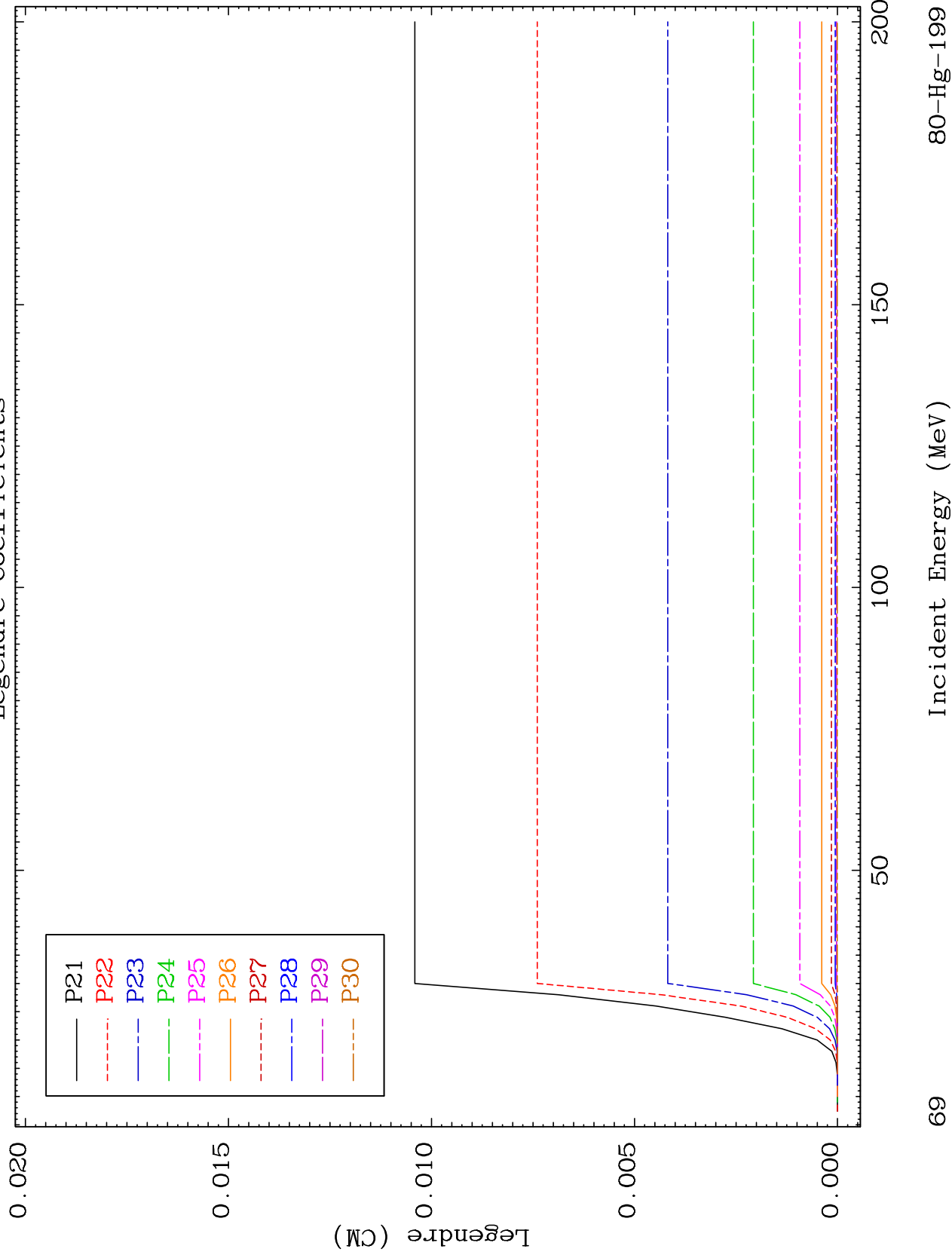
Incident Energy (MeV)

80-Hg-199

MAT 8034

736.0 keV (n,n') Level
Legendre Coefficients

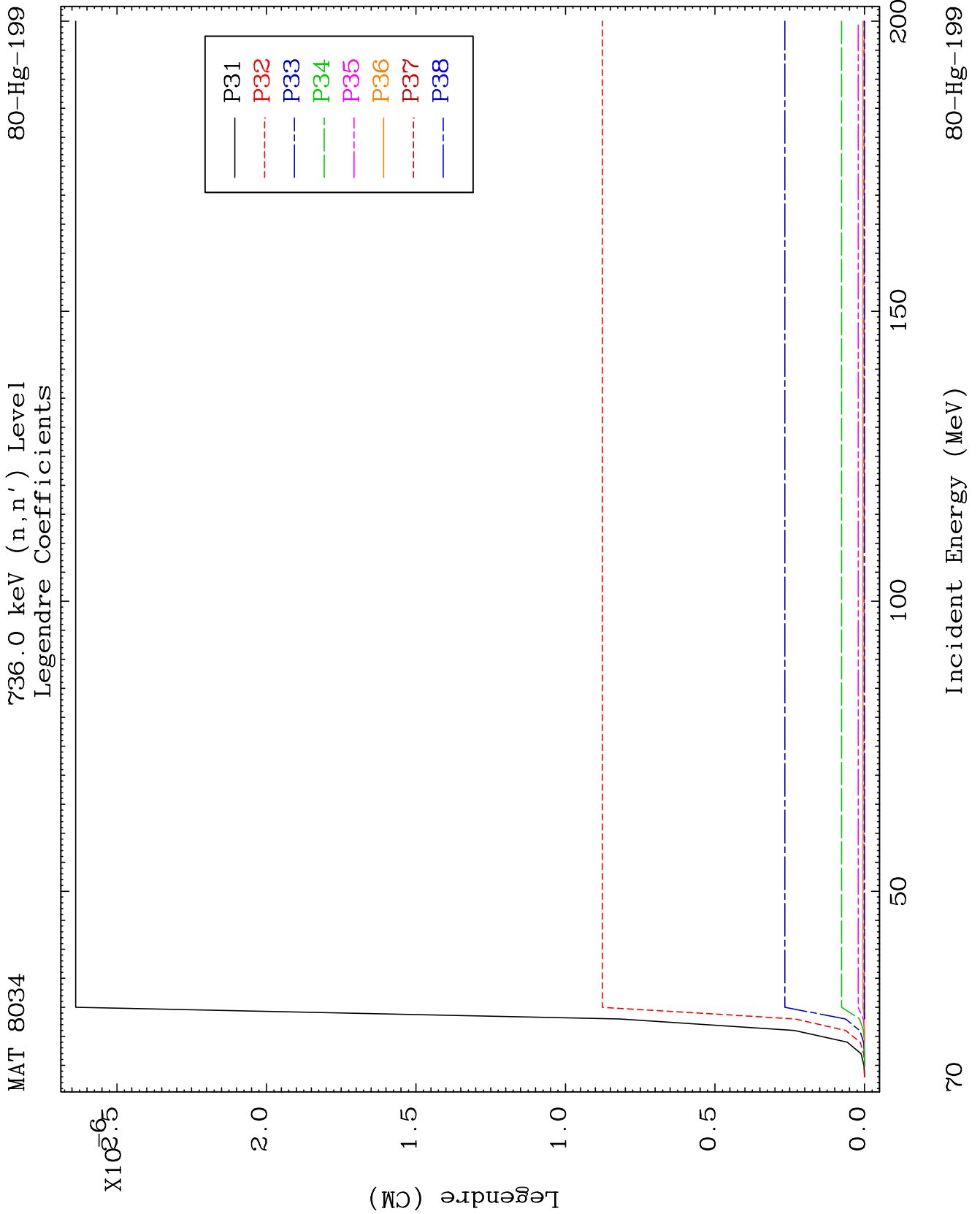
80-Hg-199



69

Incident Energy (MeV)

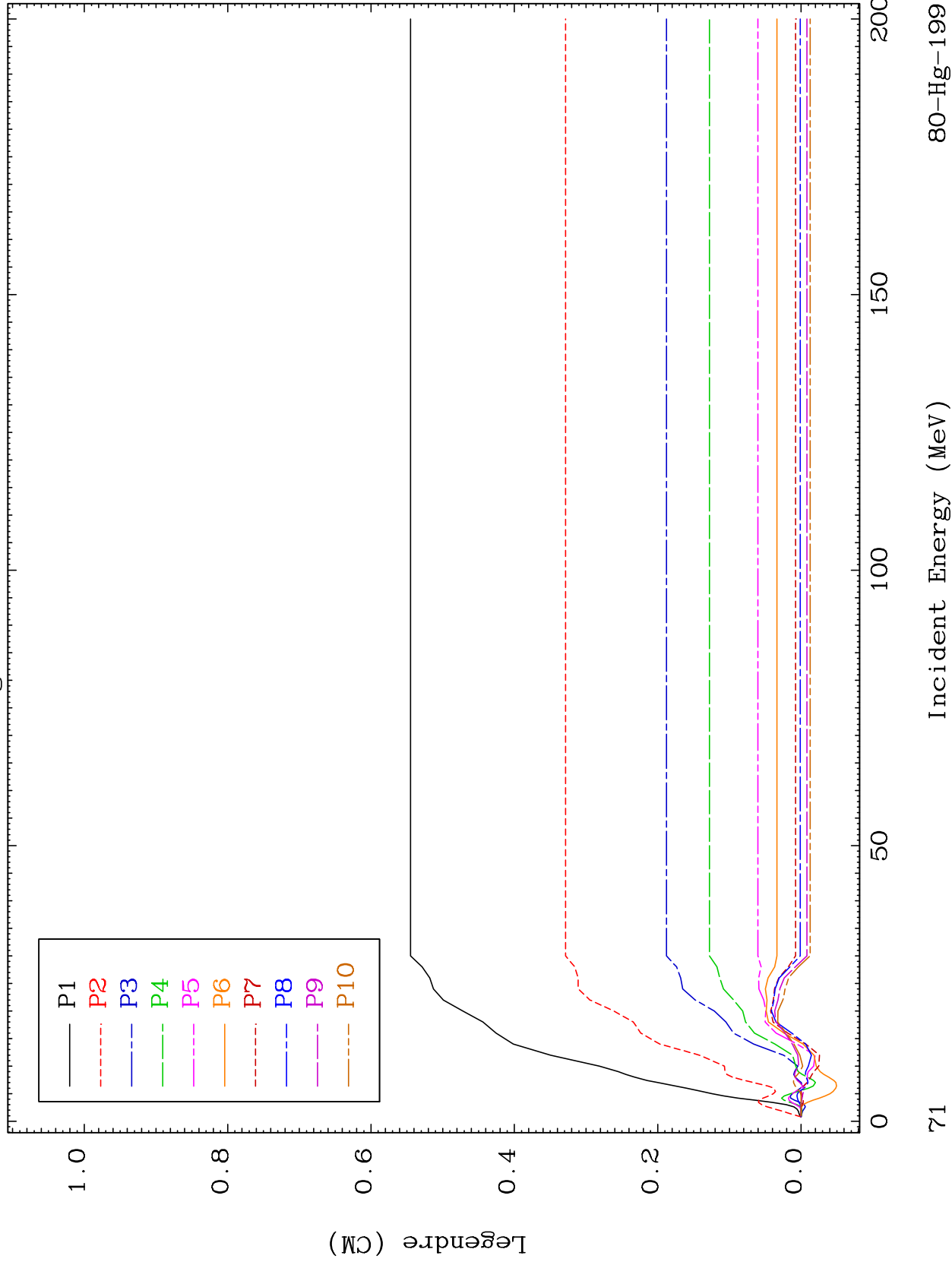
80-Hg-199



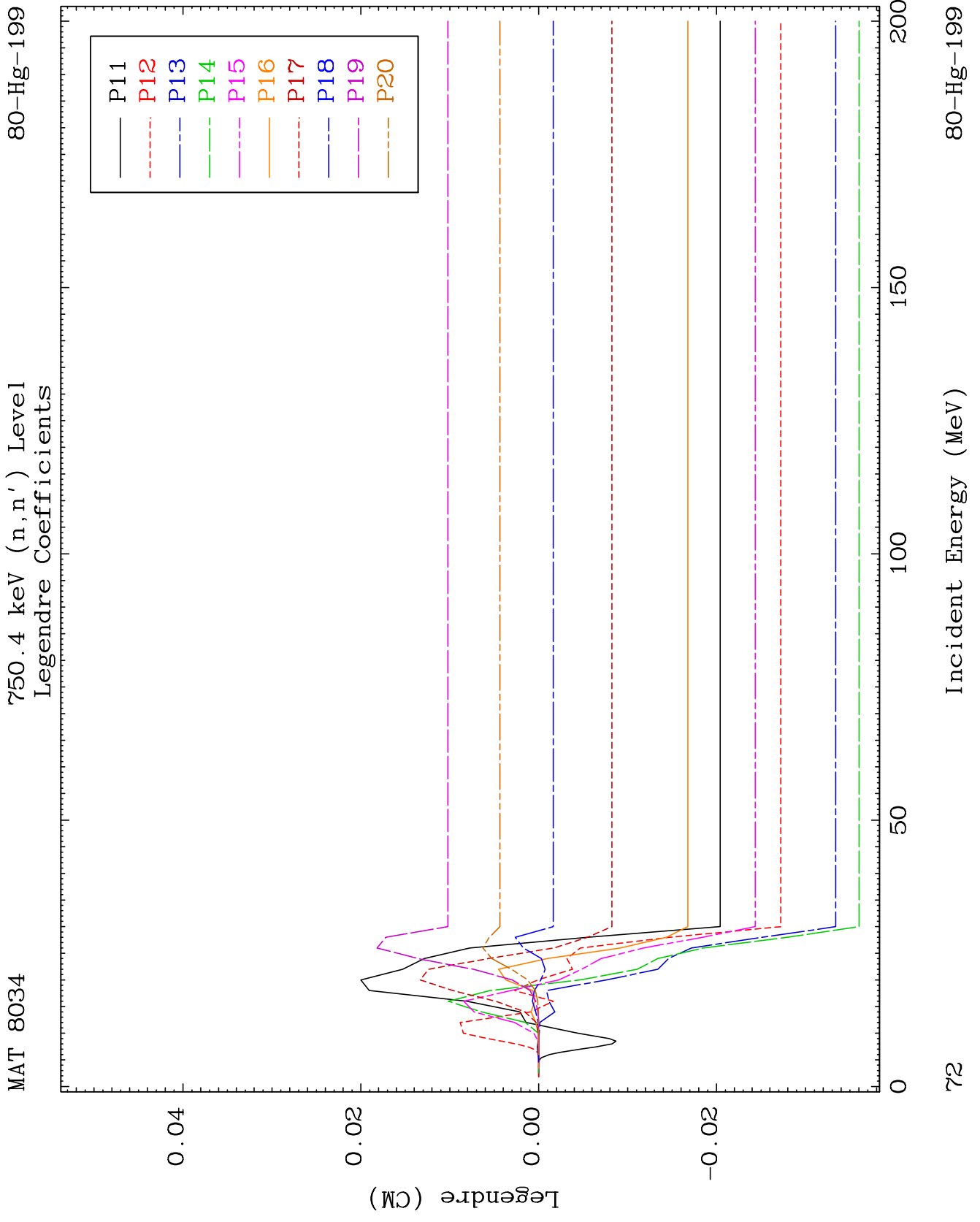
MAT 8034

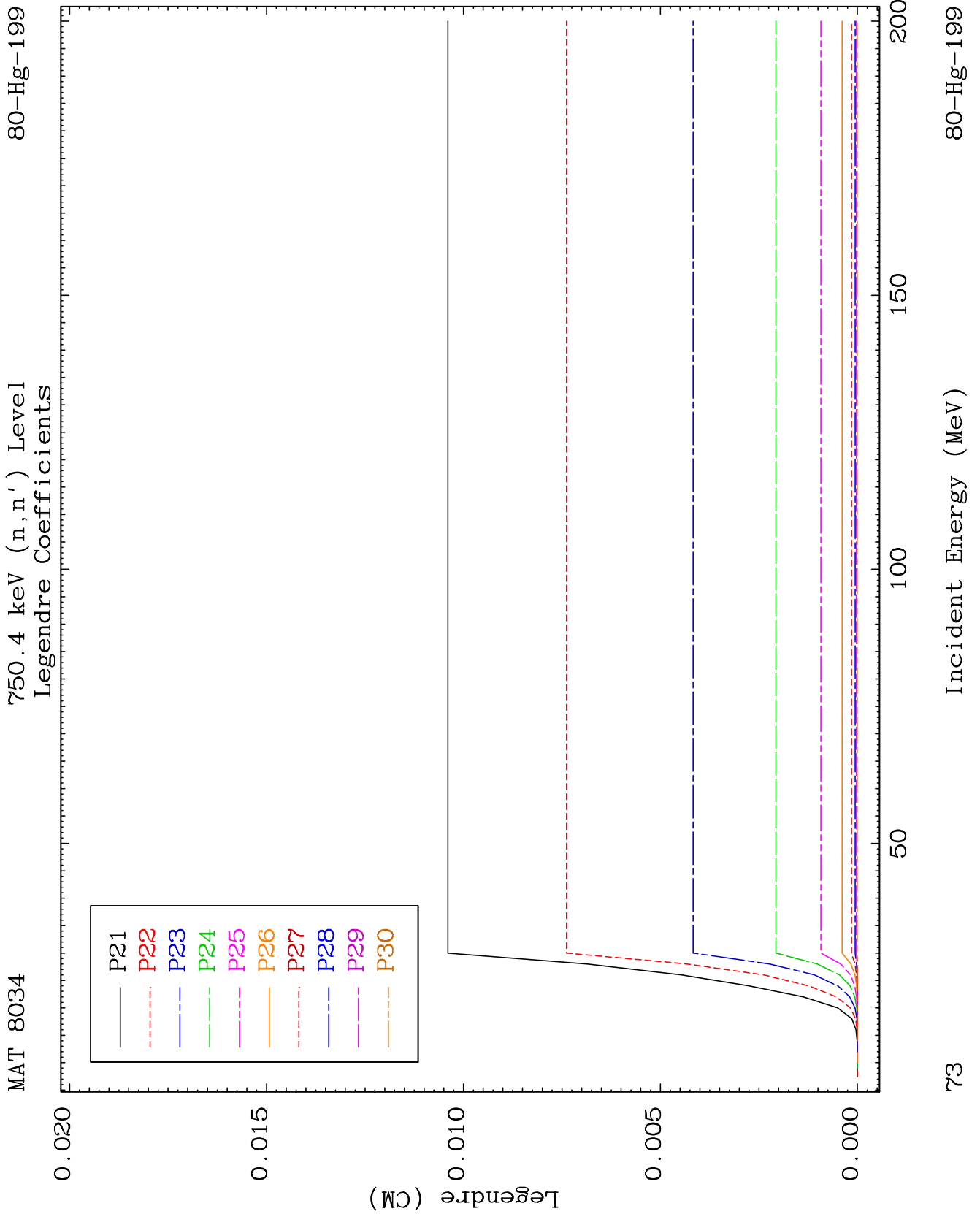
750.4 keV (n,n') Level
Legendre Coefficients

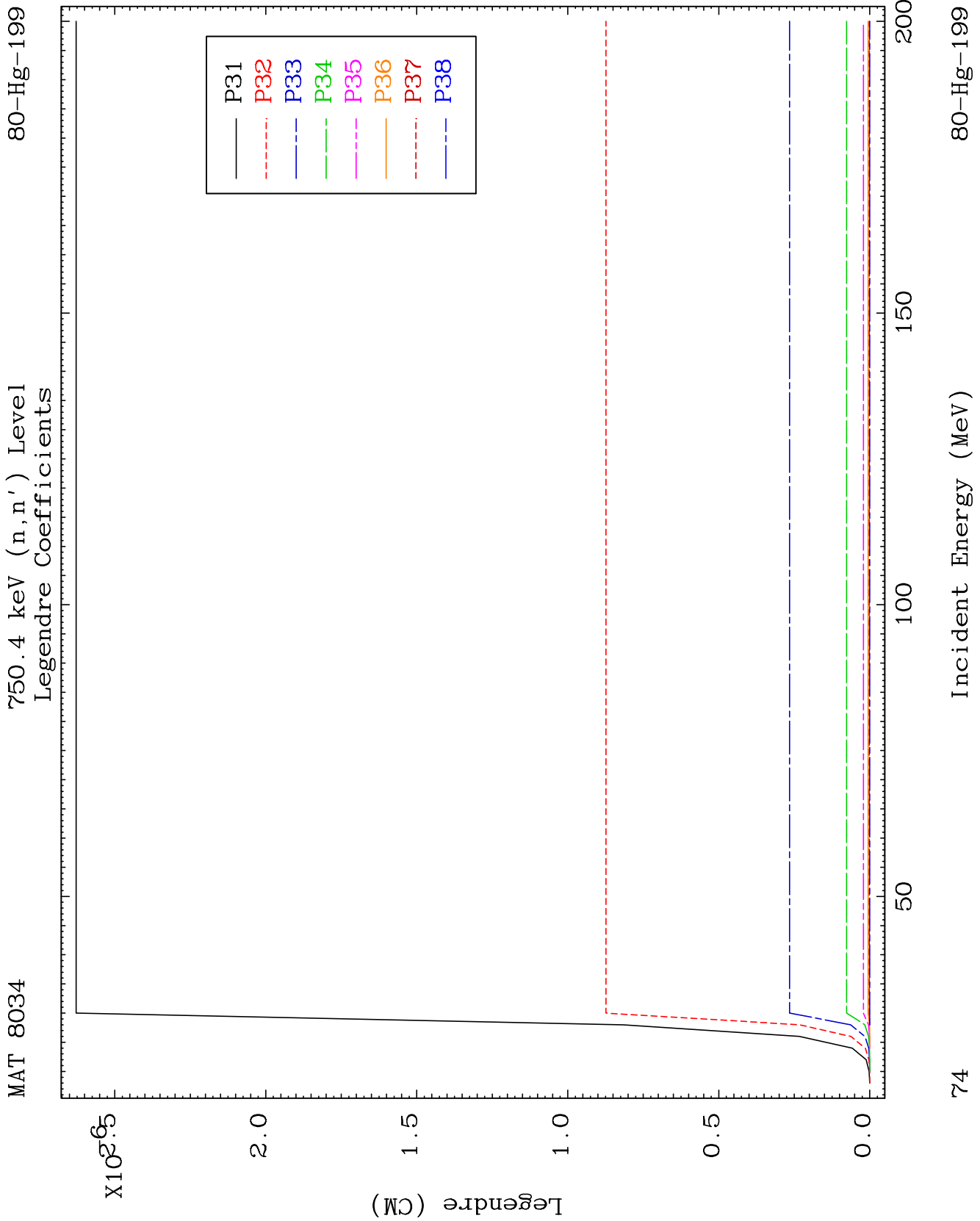
80-Hg-199

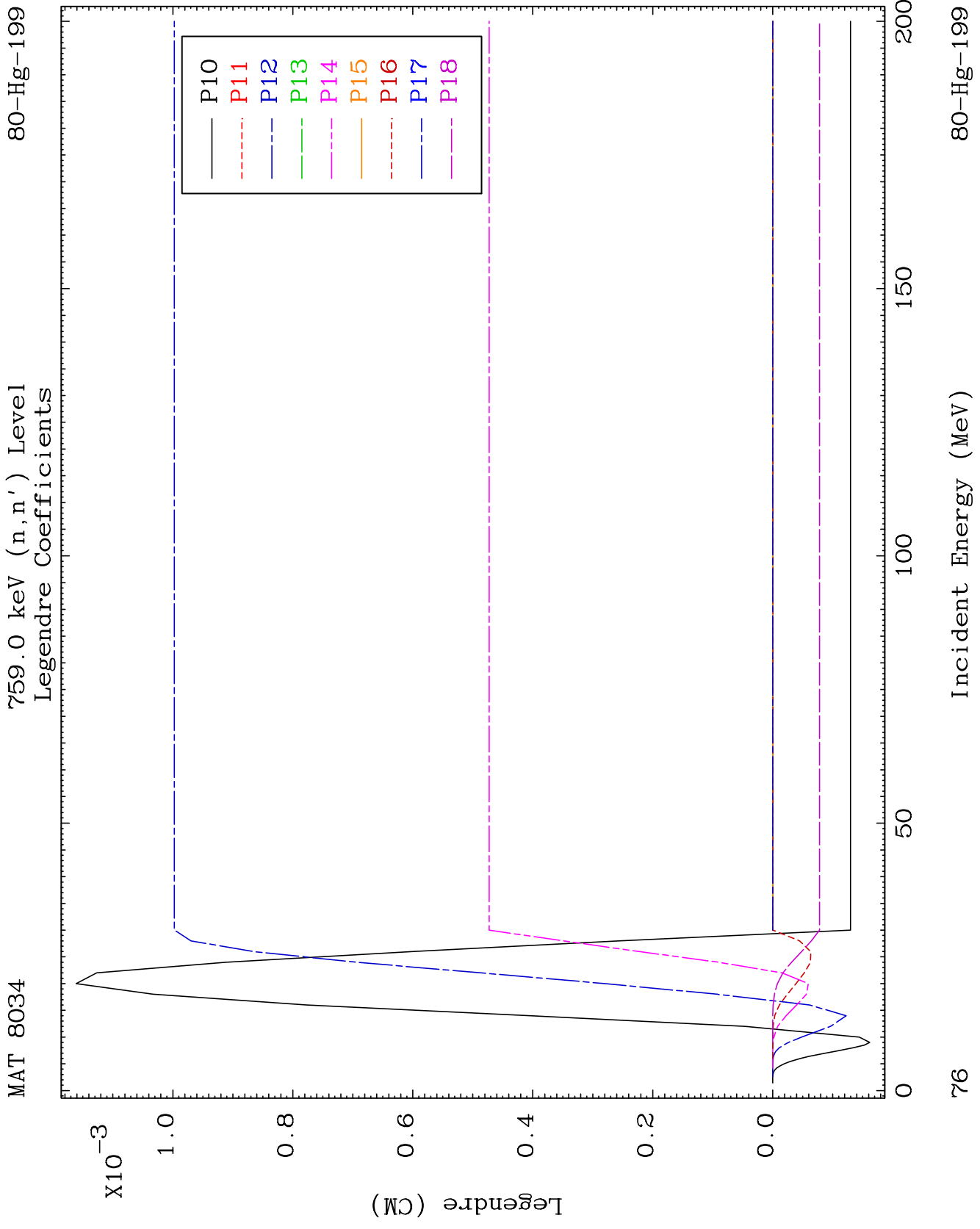


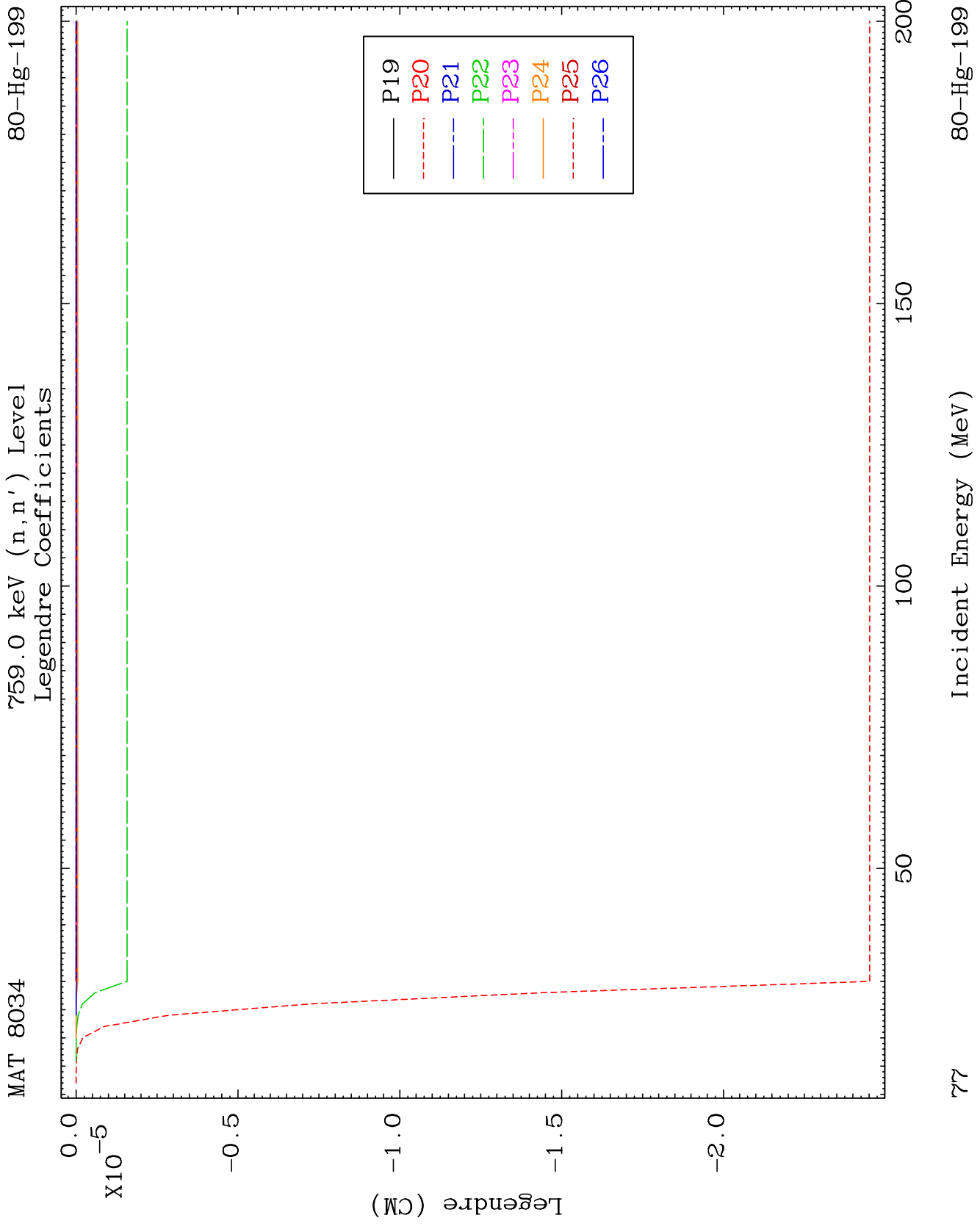
71

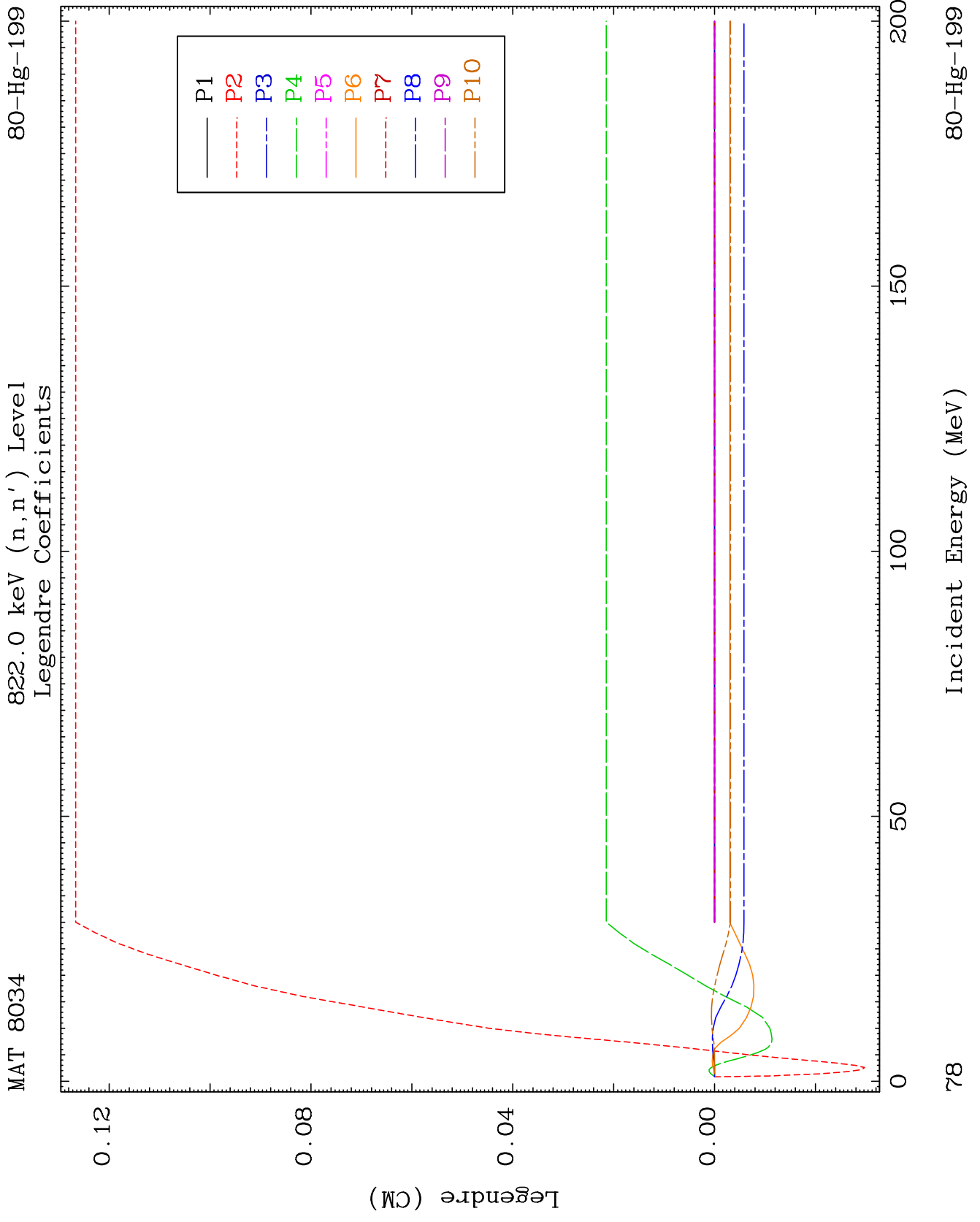








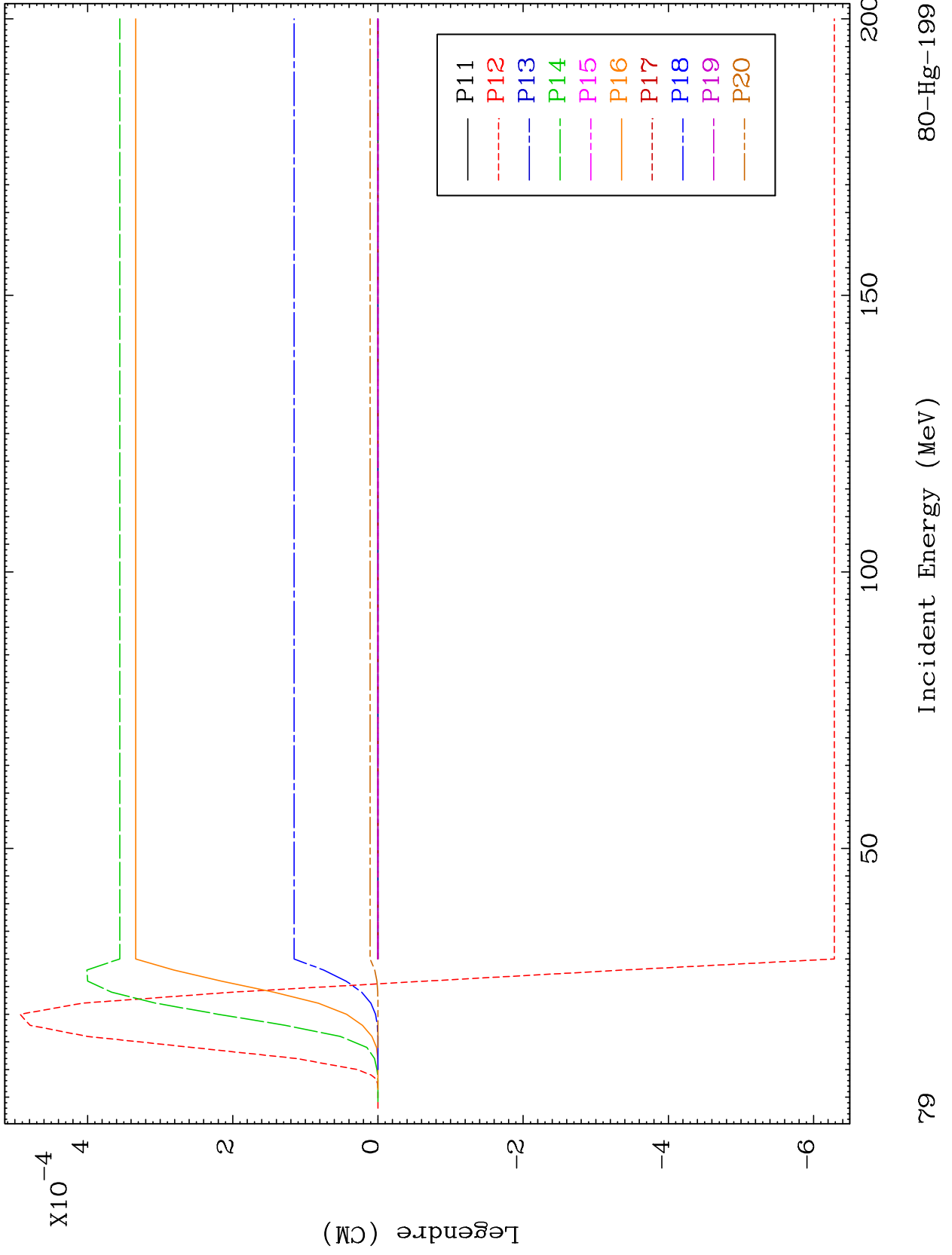




MAT 8034

822.0 keV (n,n') Level
Legendre Coefficients

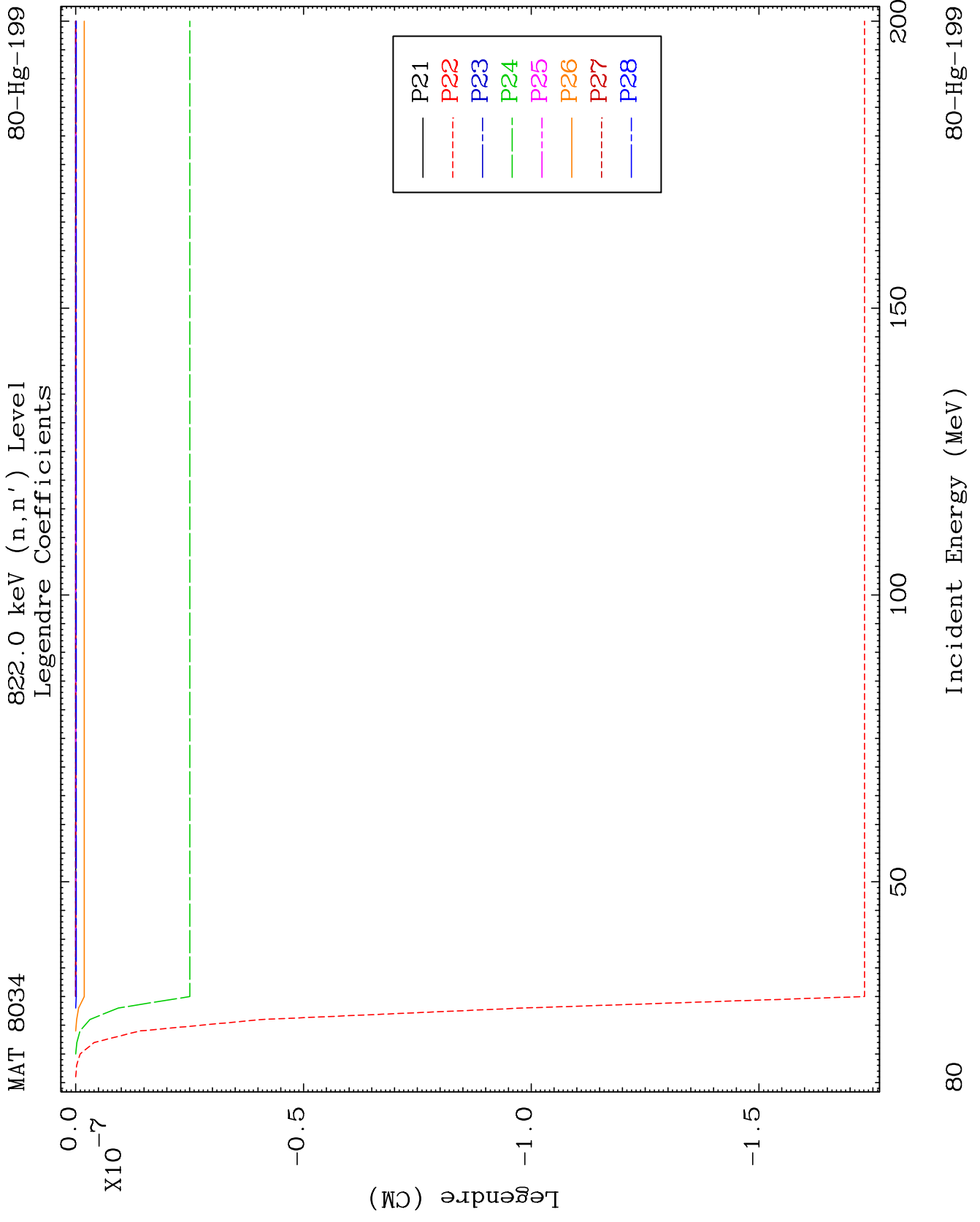
80-Hg-199



79

Incident Energy (MeV)

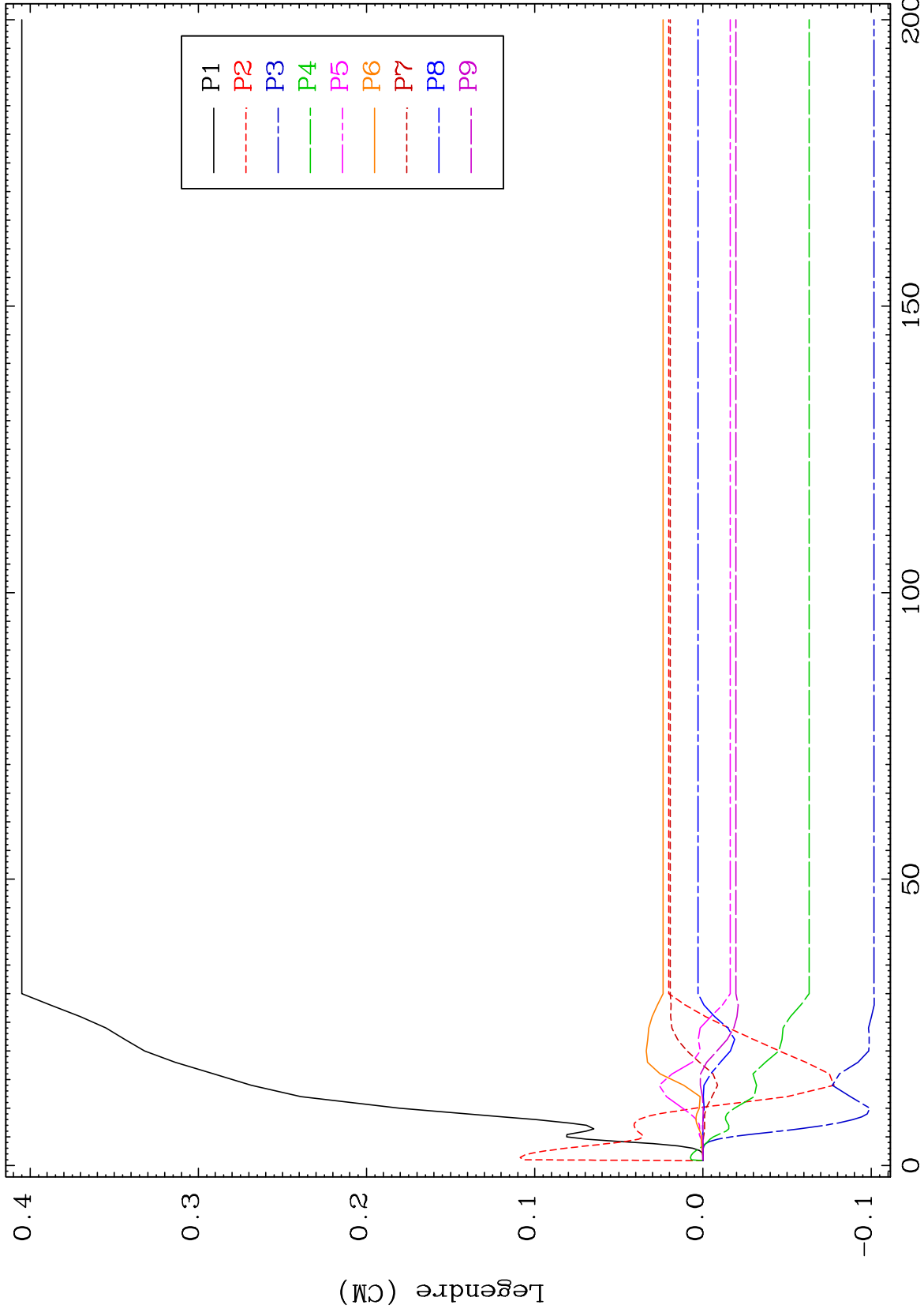
80-Hg-199



MAT 8034

823.9 keV (n,n') Level
Legendre Coefficients

80-Hg-199



81

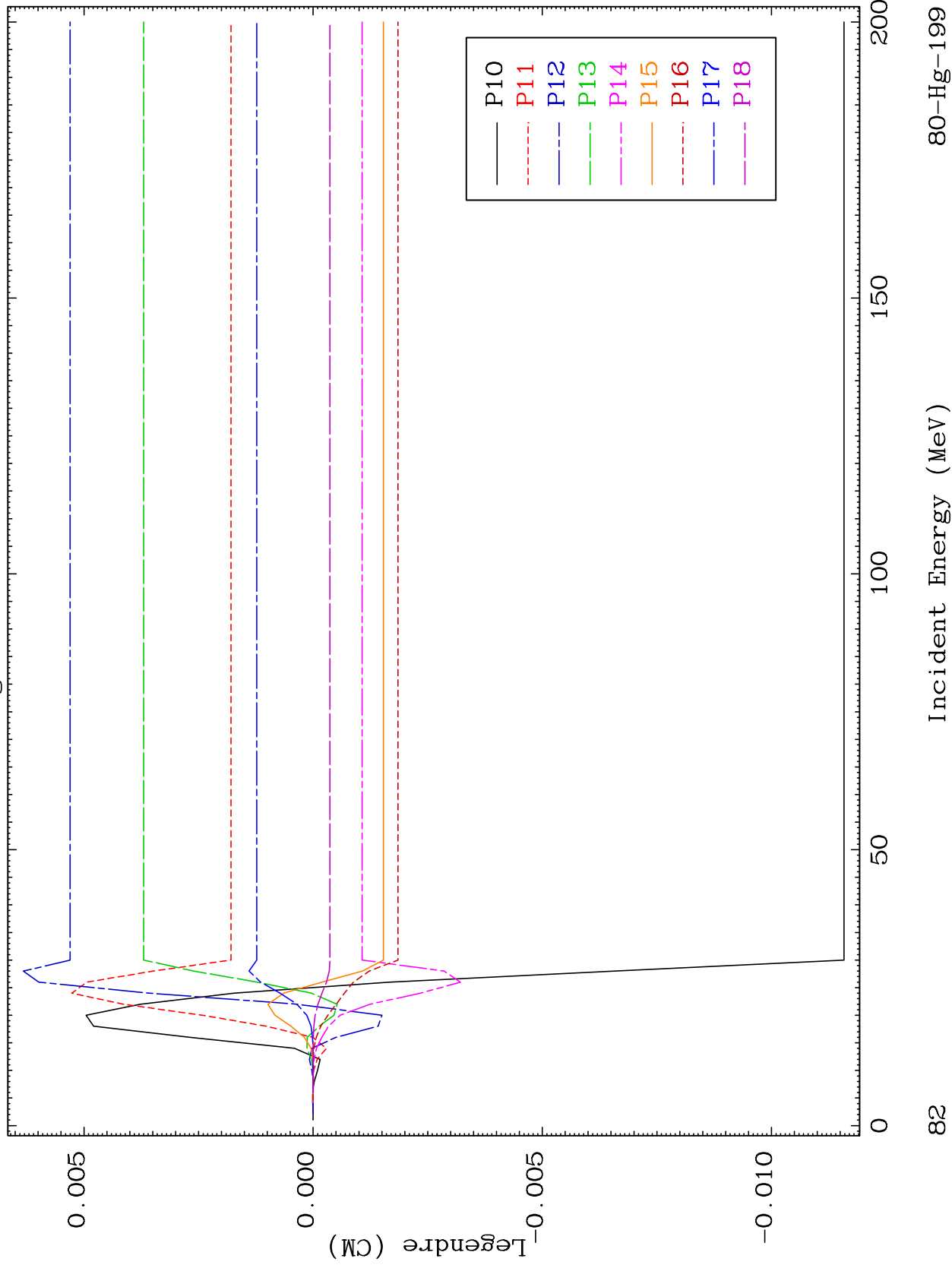
Incident Energy (MeV)

80-Hg-199

MAT 8034

823.9 keV (n,n') Level
Legendre Coefficients

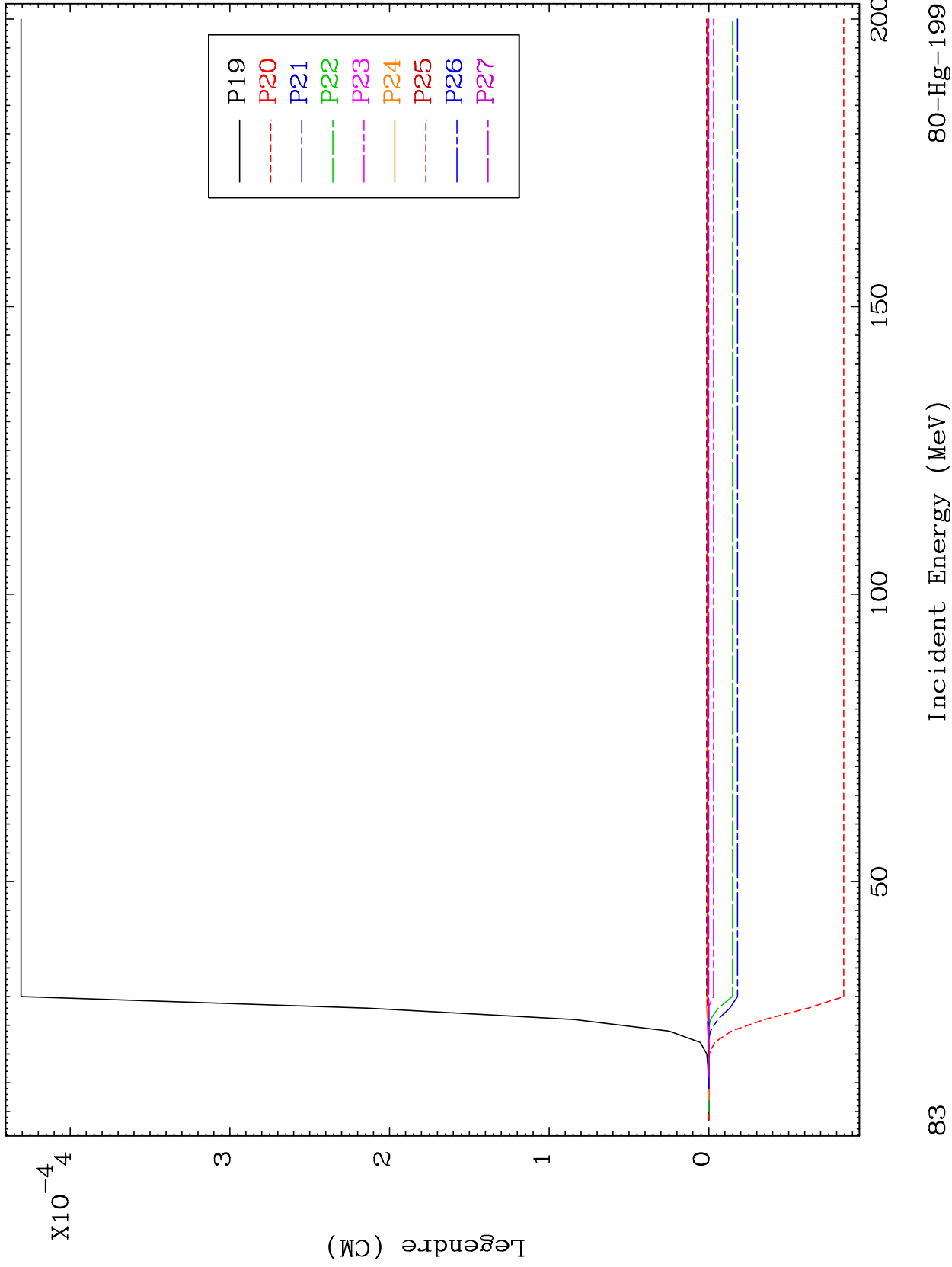
80-Hg-199



MAT 8034

823.9 keV (n,n') Level
Legendre Coefficients

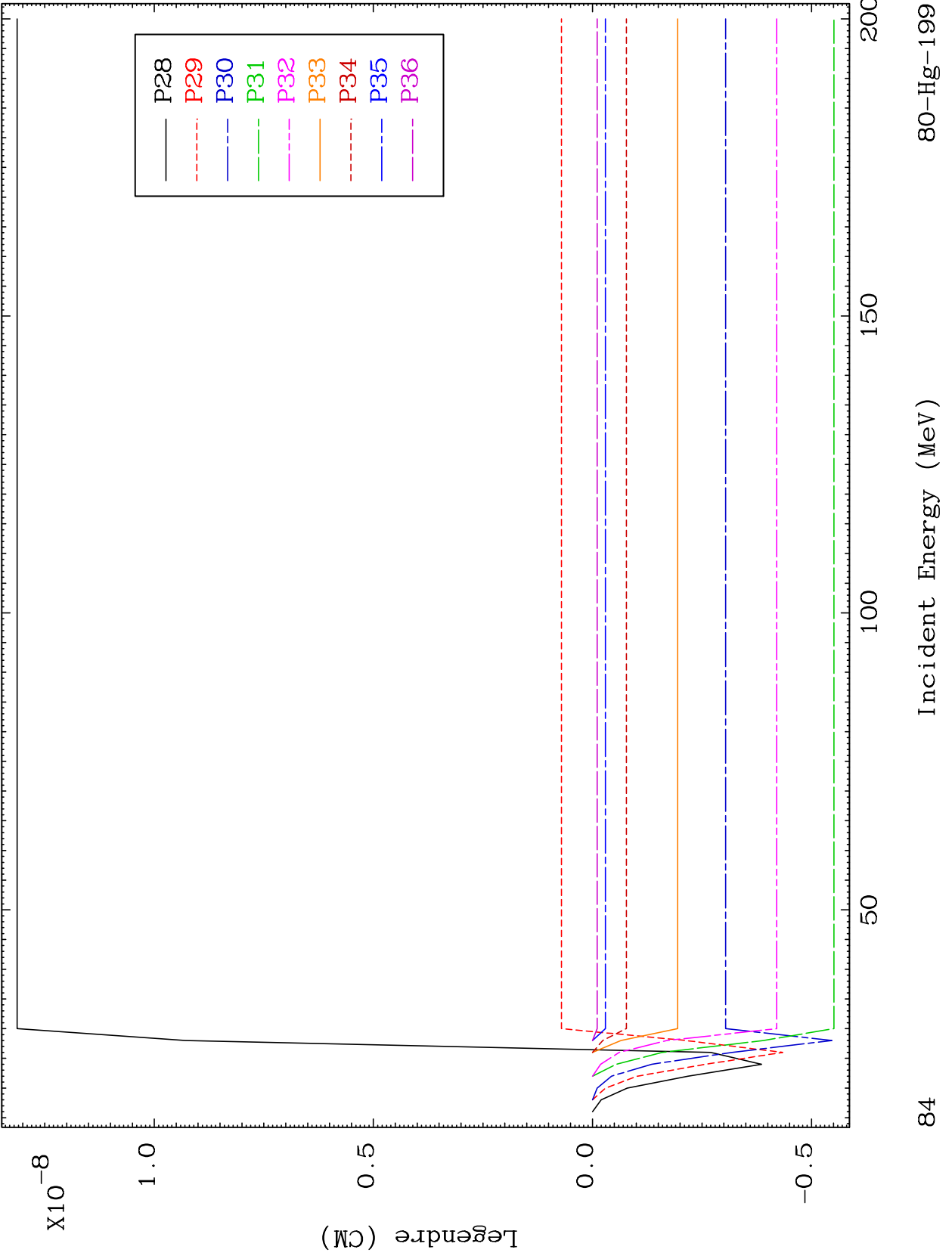
80-Hg-199



MAT 8034

823.9 keV (n,n') Level
Legendre Coefficients

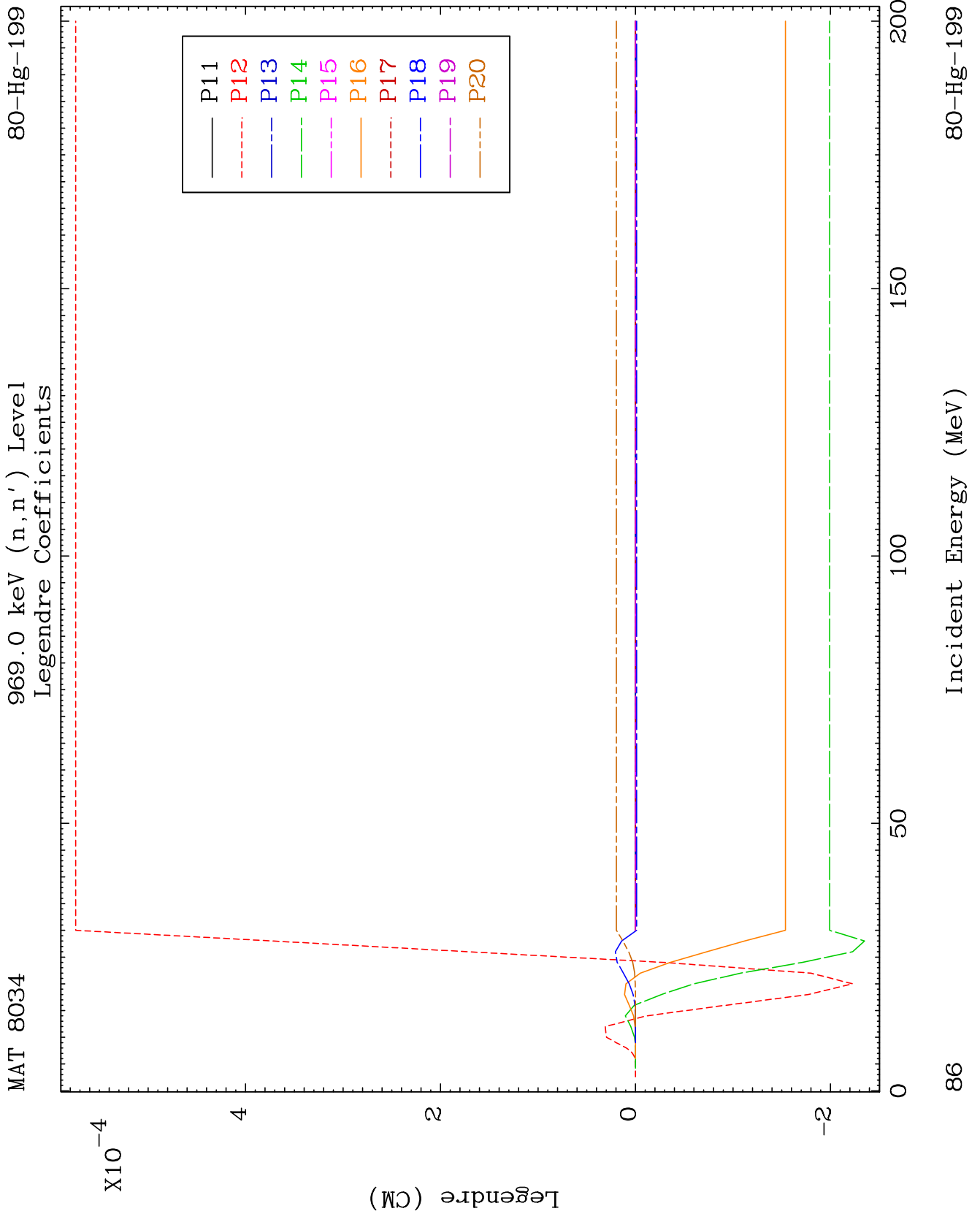
80-Hg-199

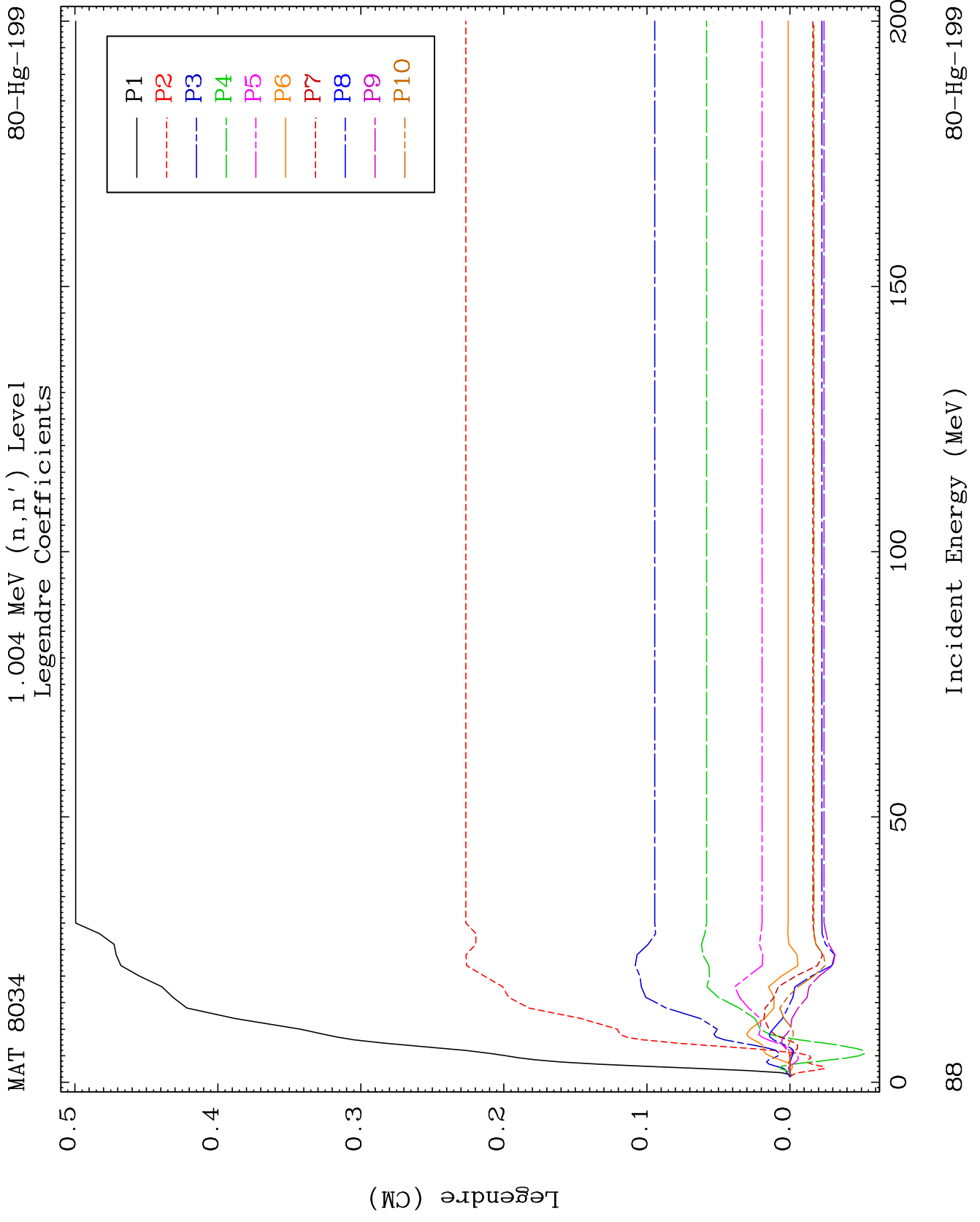


84

Incident Energy (MeV)

80-Hg-199

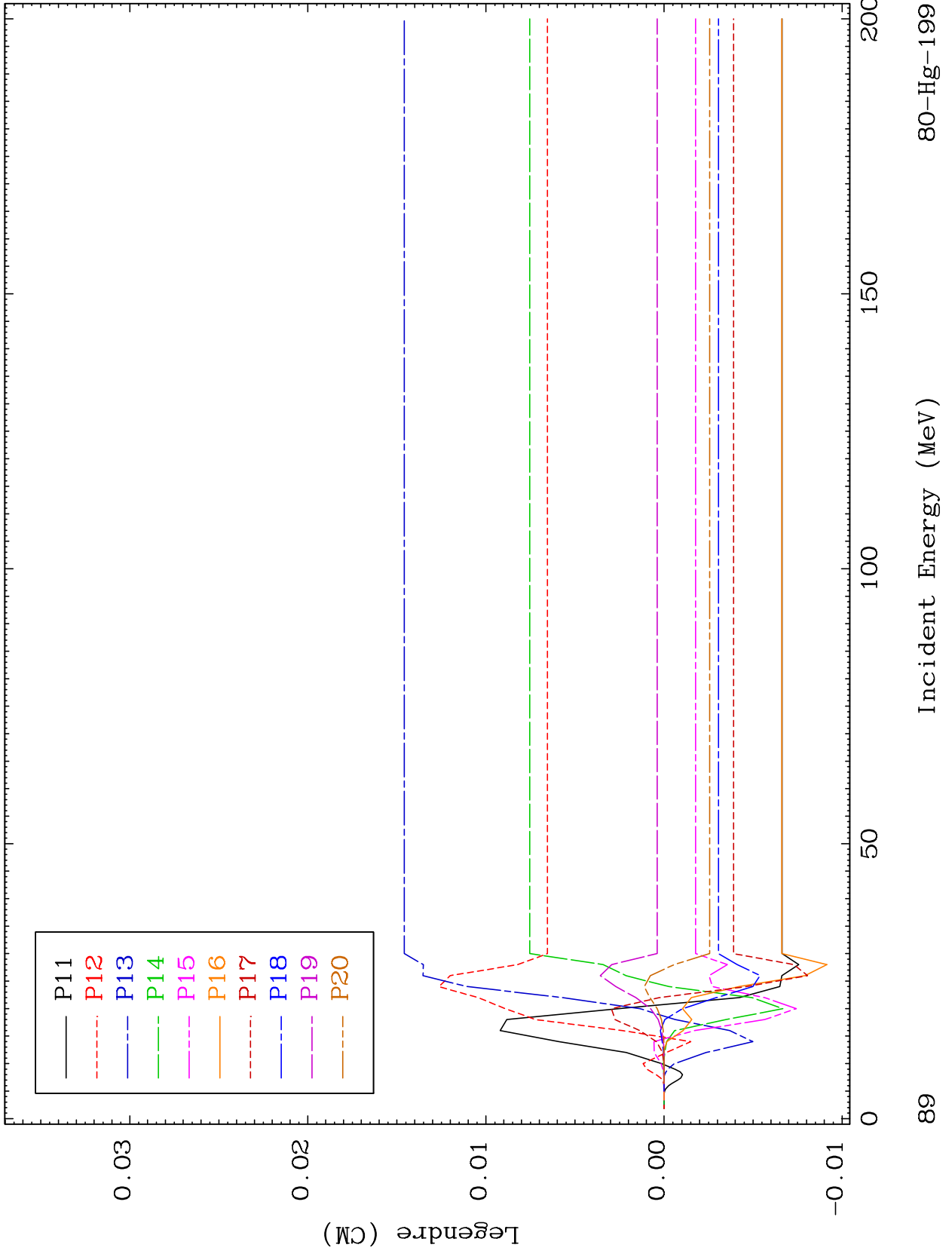




MAT 8034

1.004 MeV (n,n') Level
Legendre Coefficients

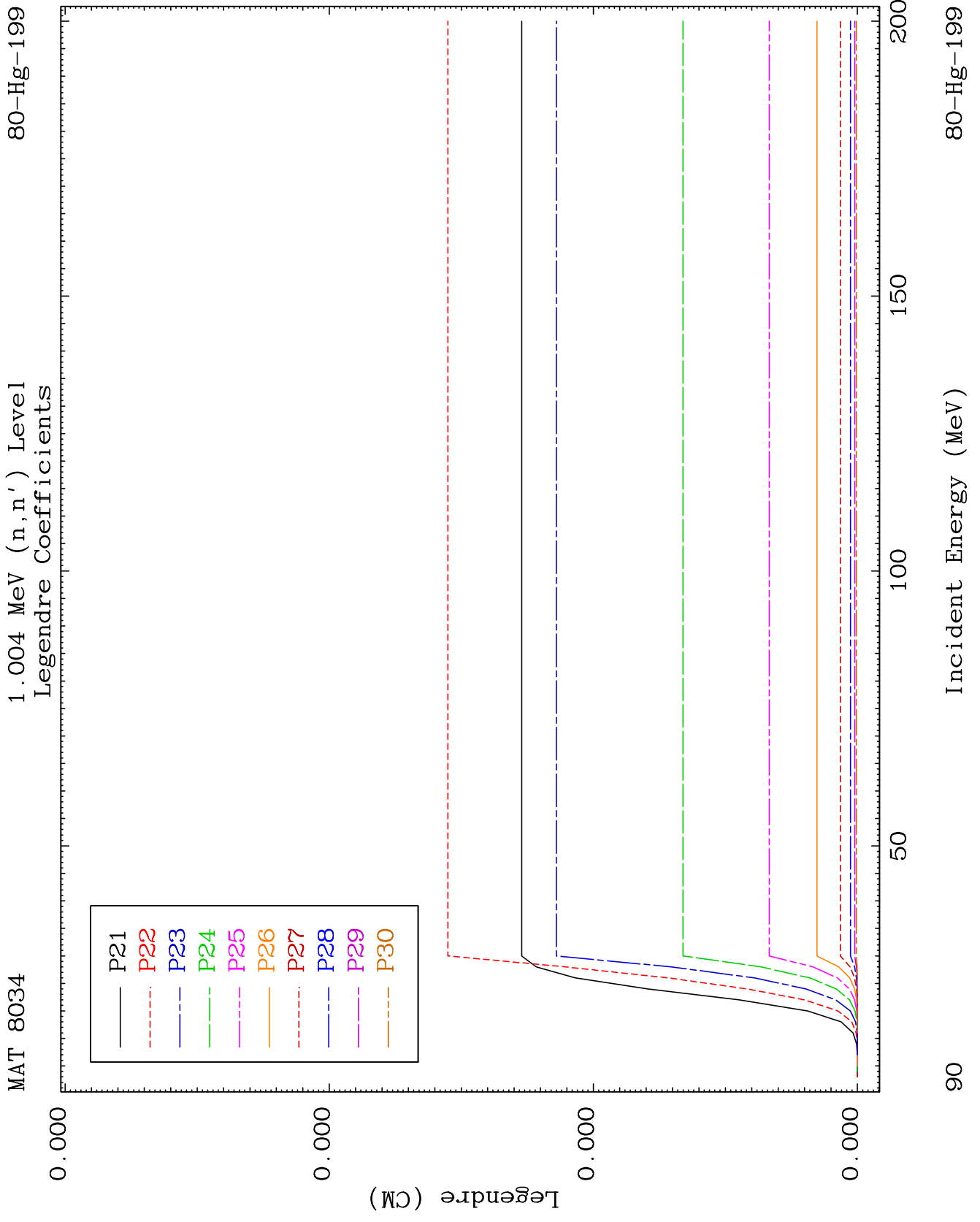
80-Hg-199

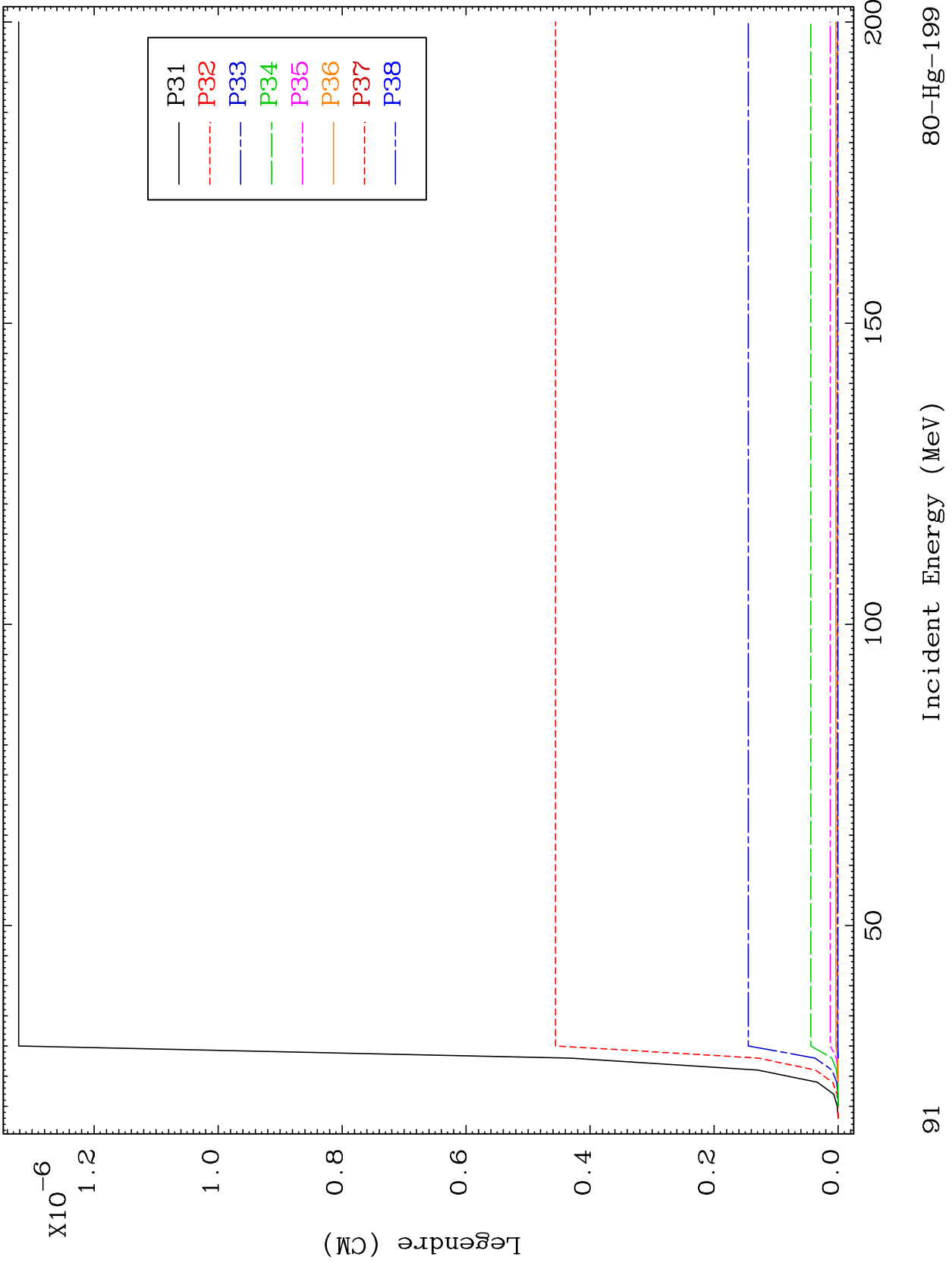


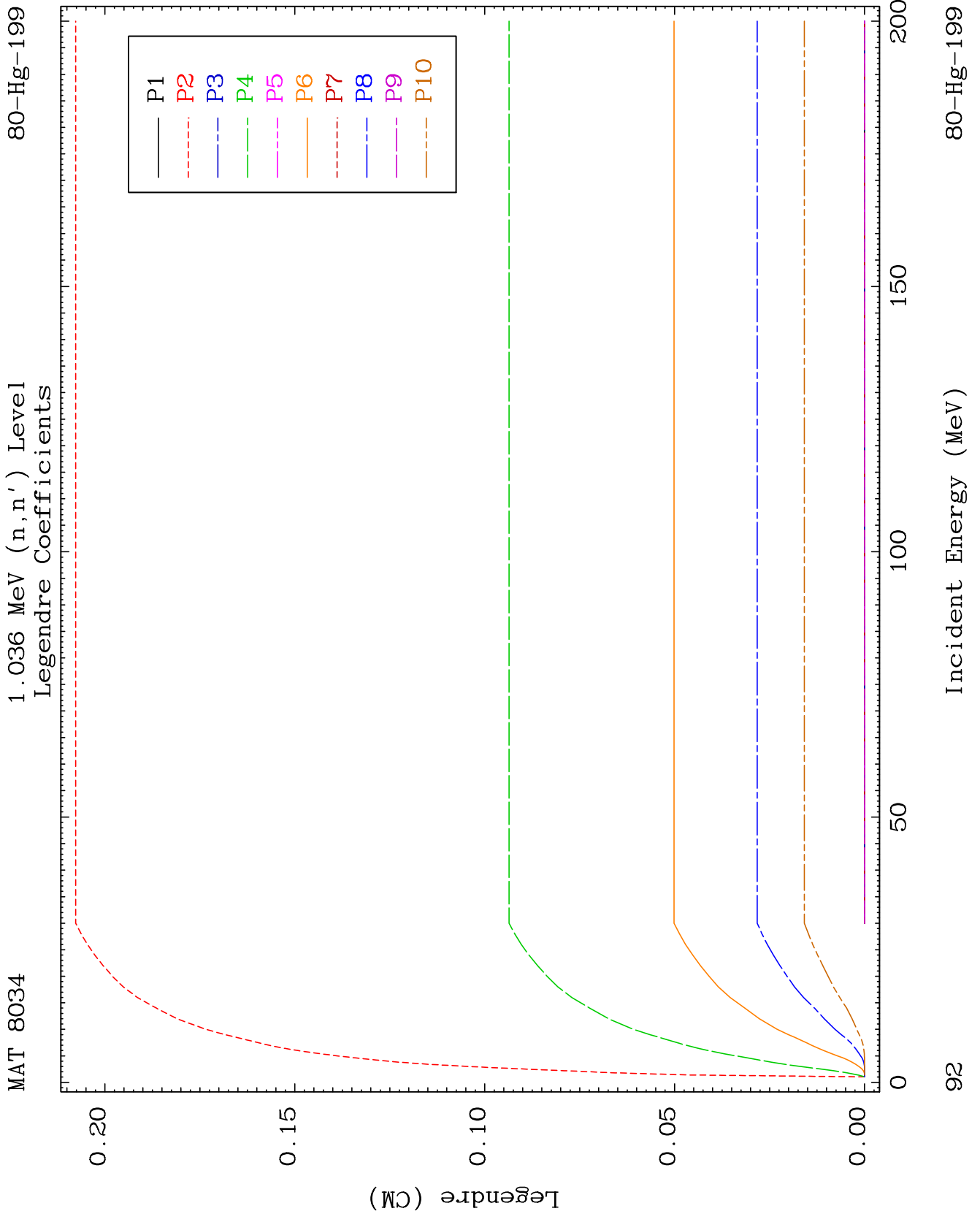
89

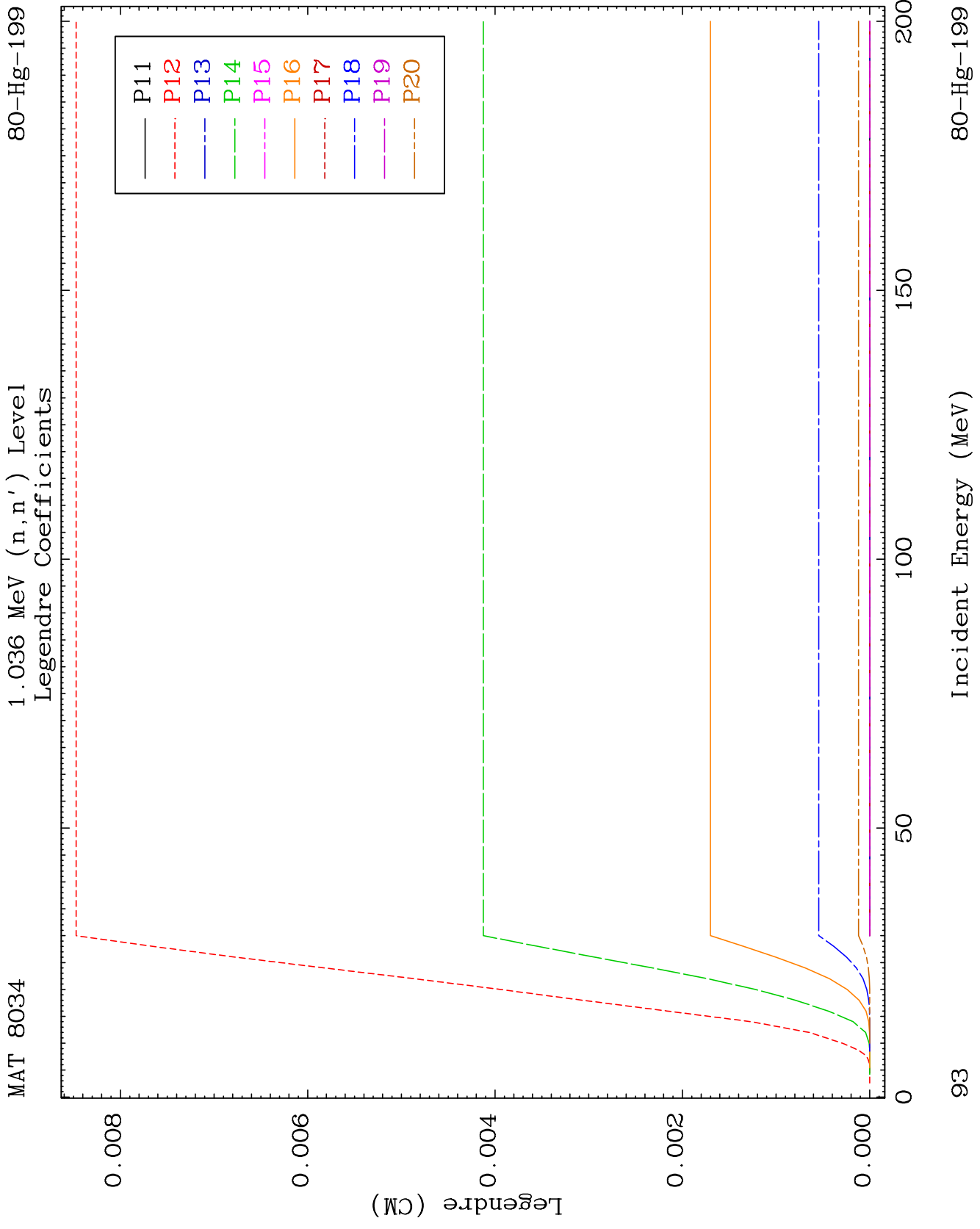
Incident Energy (MeV)

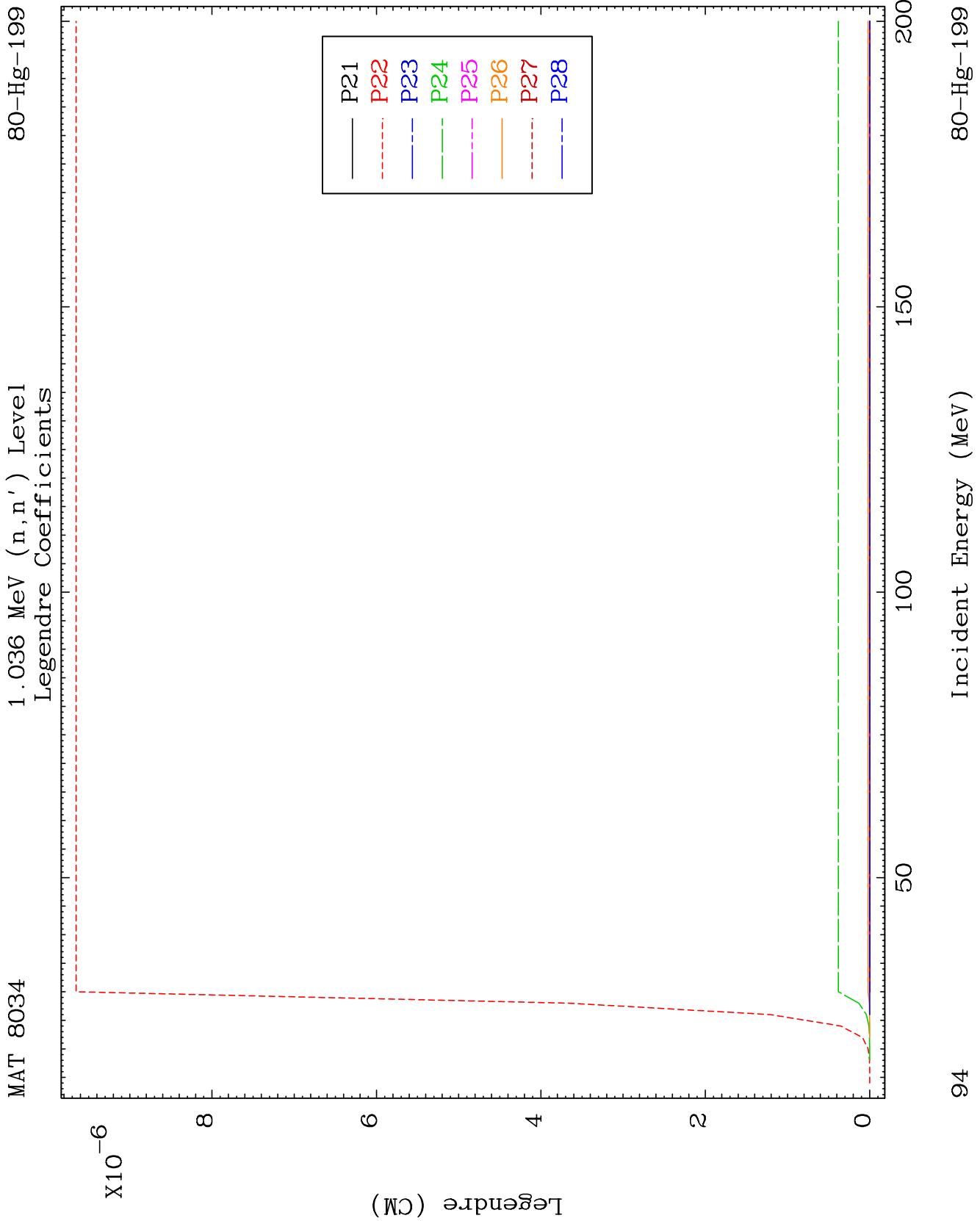
80-Hg-199







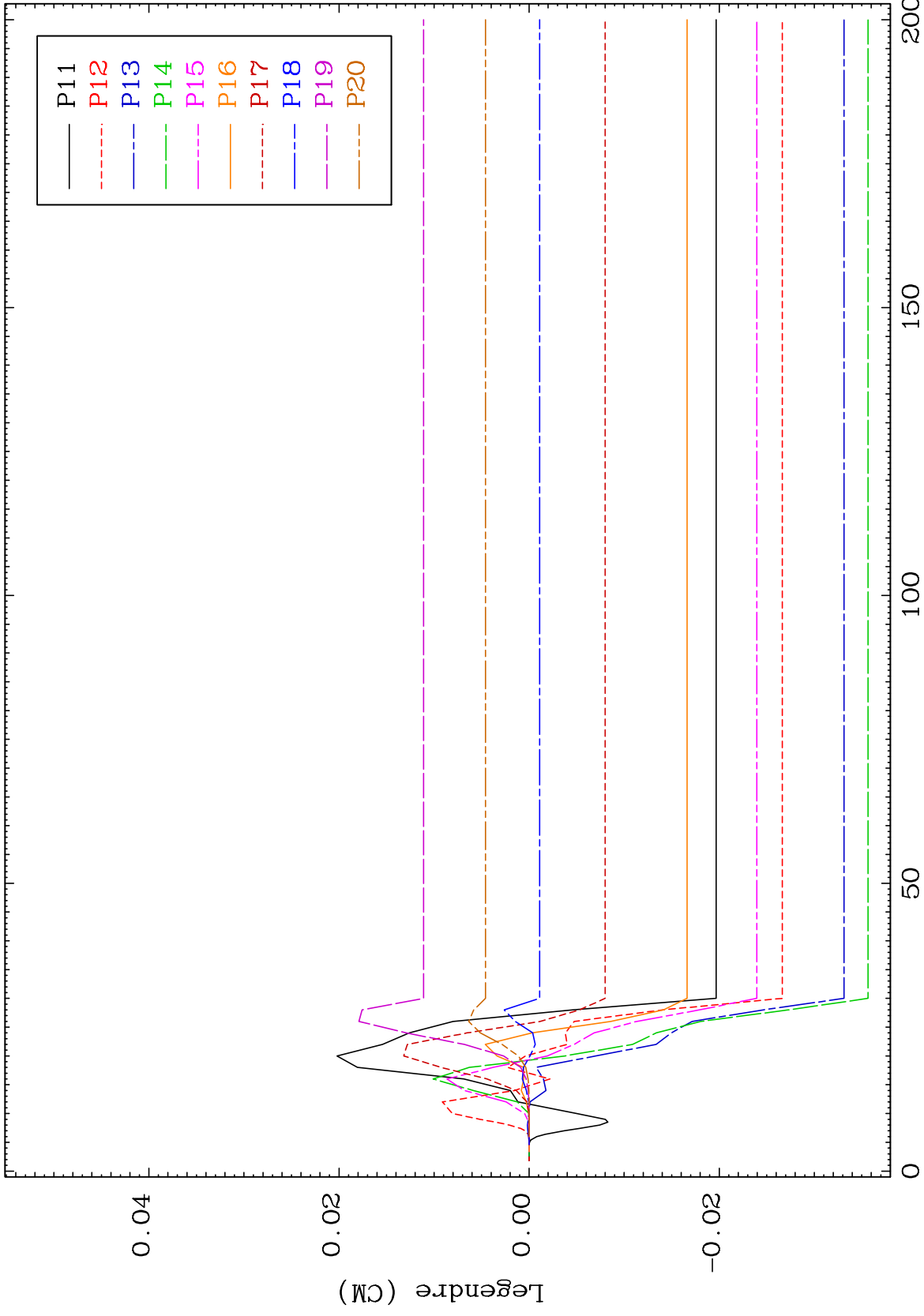




MAT 8034

1.104 MeV (n, n') Level
Legendre Coefficients

80-Hg-199



96

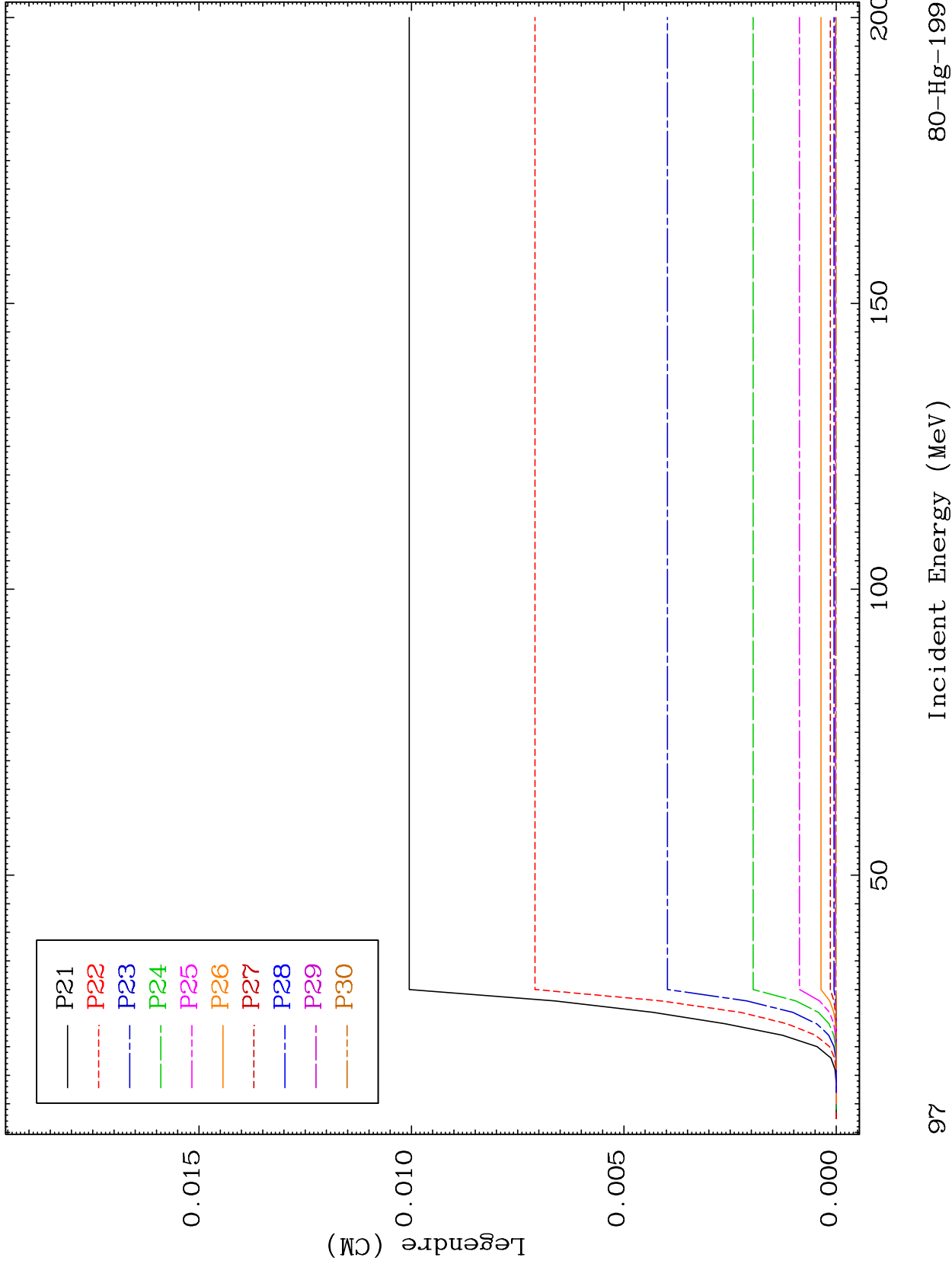
Incident Energy (MeV)

80-Hg-199

MAT 8034

1.104 MeV (n,n') Level
Legendre Coefficients

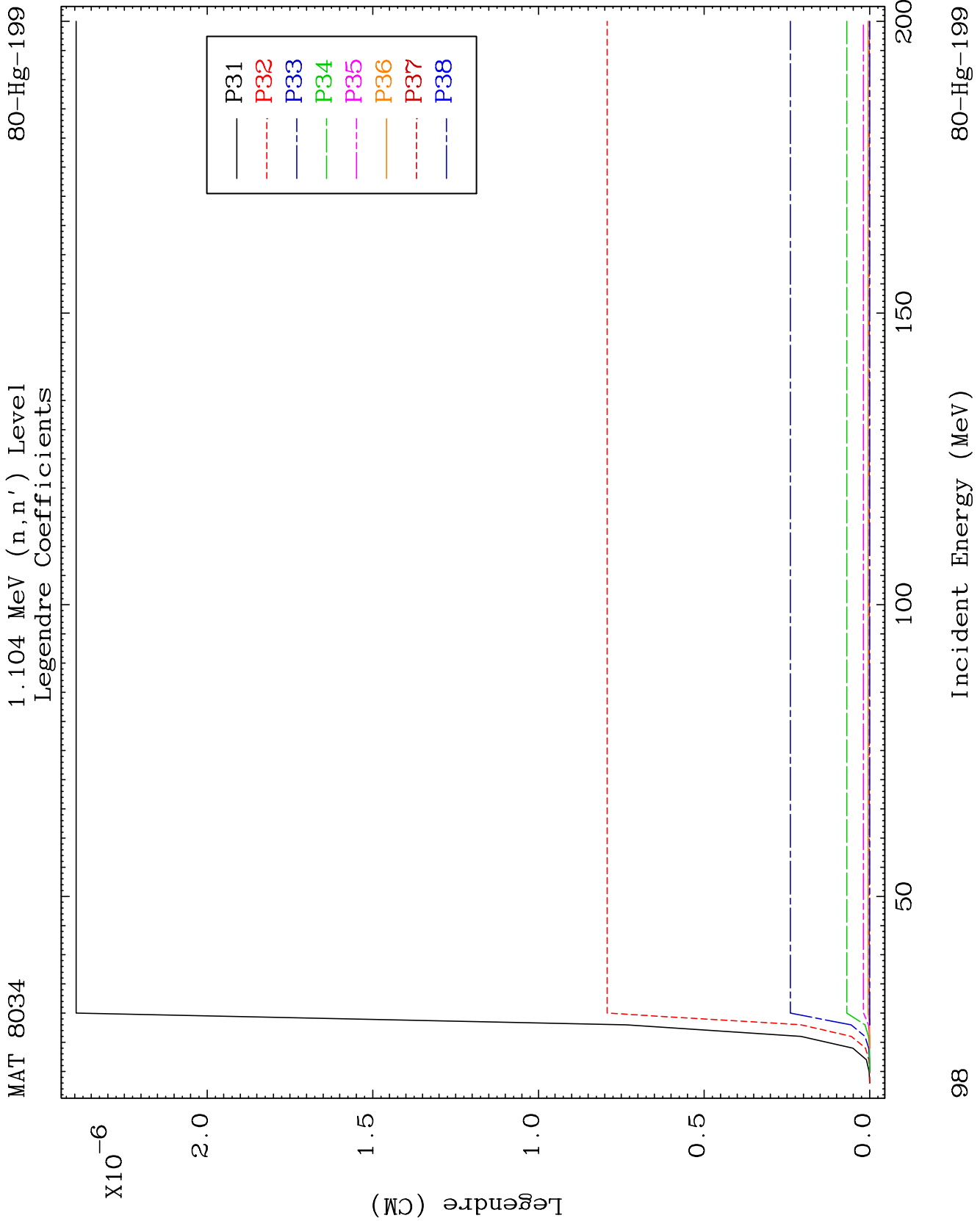
80-Hg-199

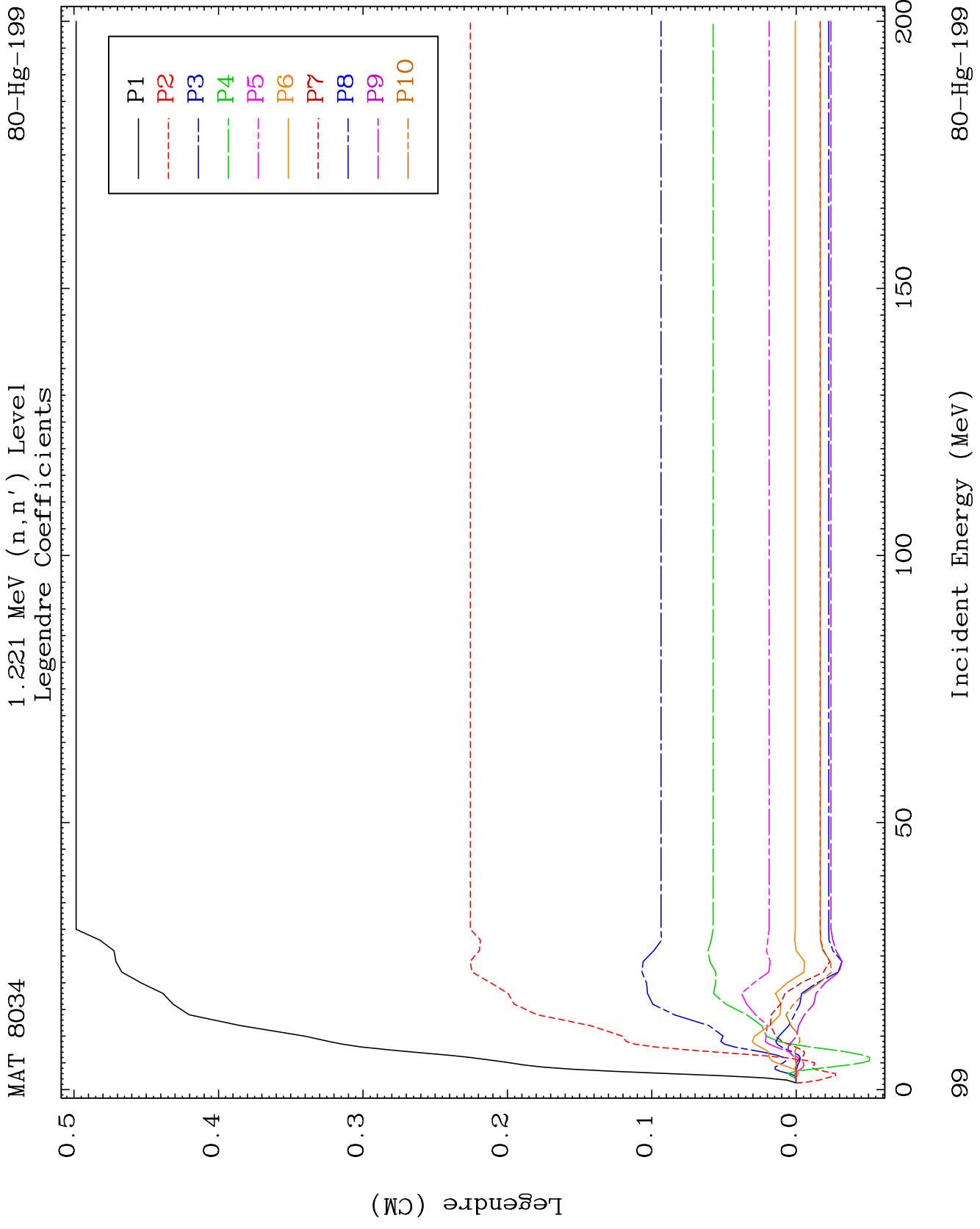


97

Incident Energy (MeV)

80-Hg-199

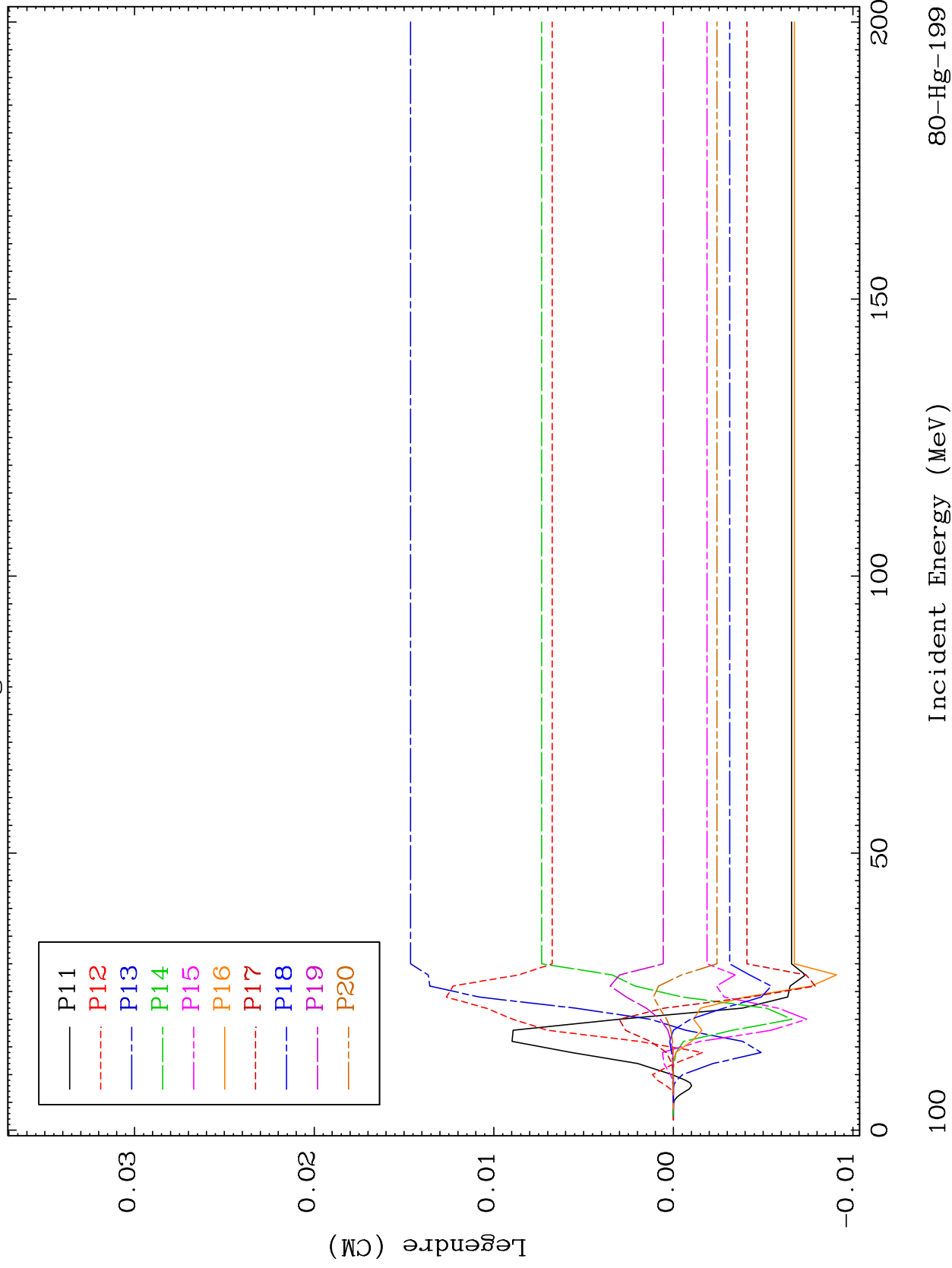




MAT 8034

1.221 MeV (n, n') Level
Legendre Coefficients

80-Hg-199

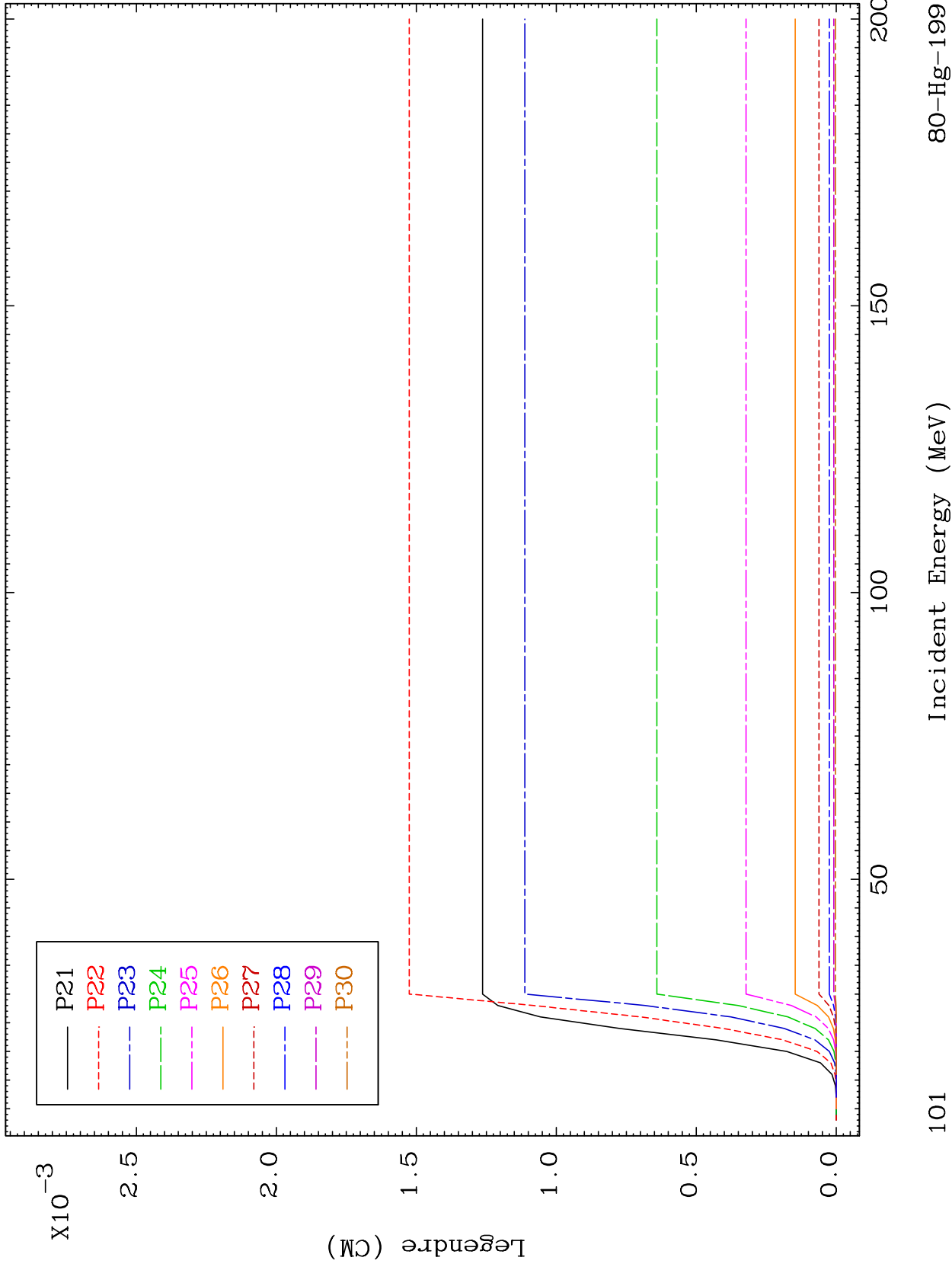


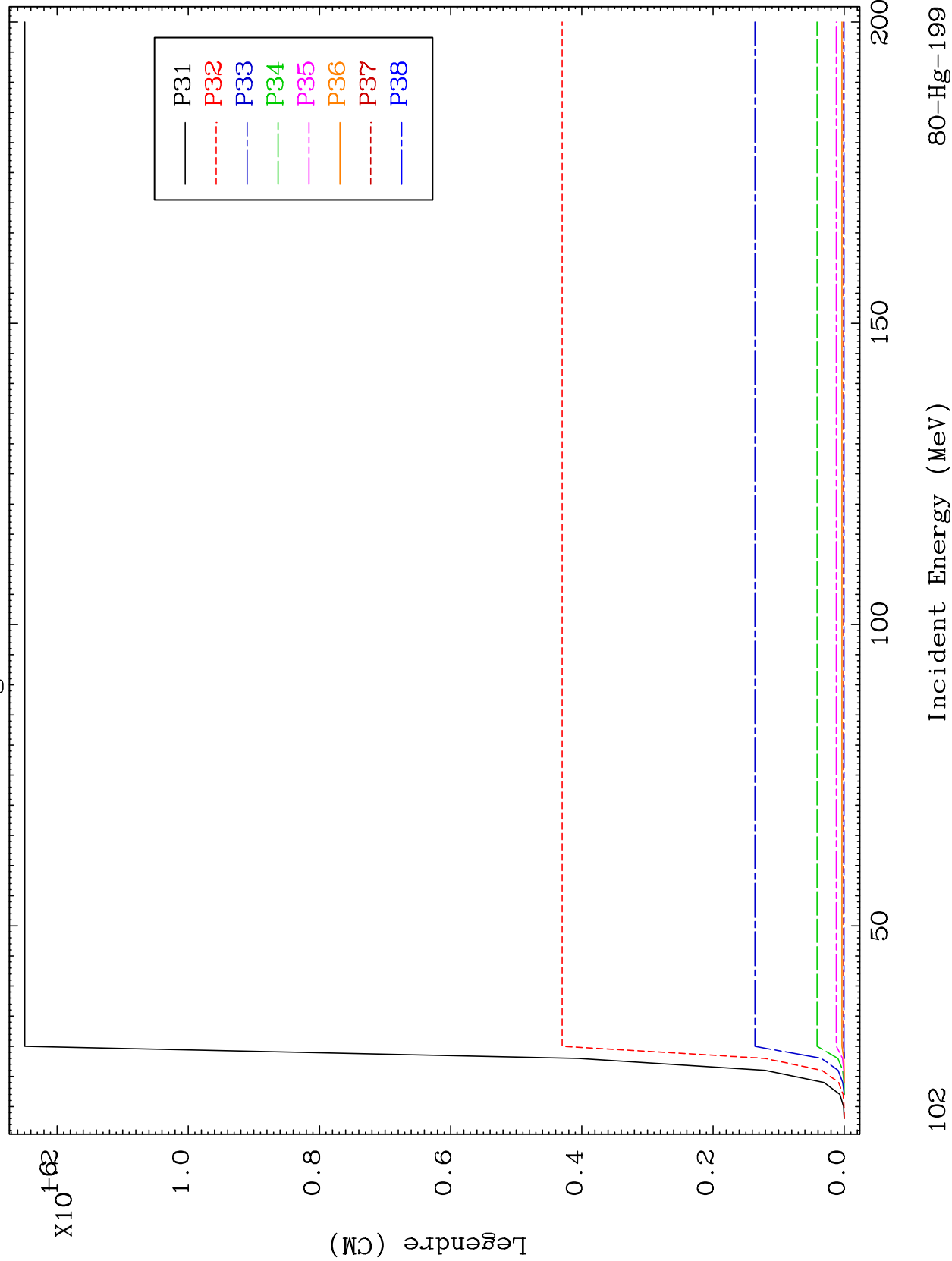
80-Hg-199

MAT 8034

1.221 MeV (n,n') Level
Legendre Coefficients

80-Hg-199

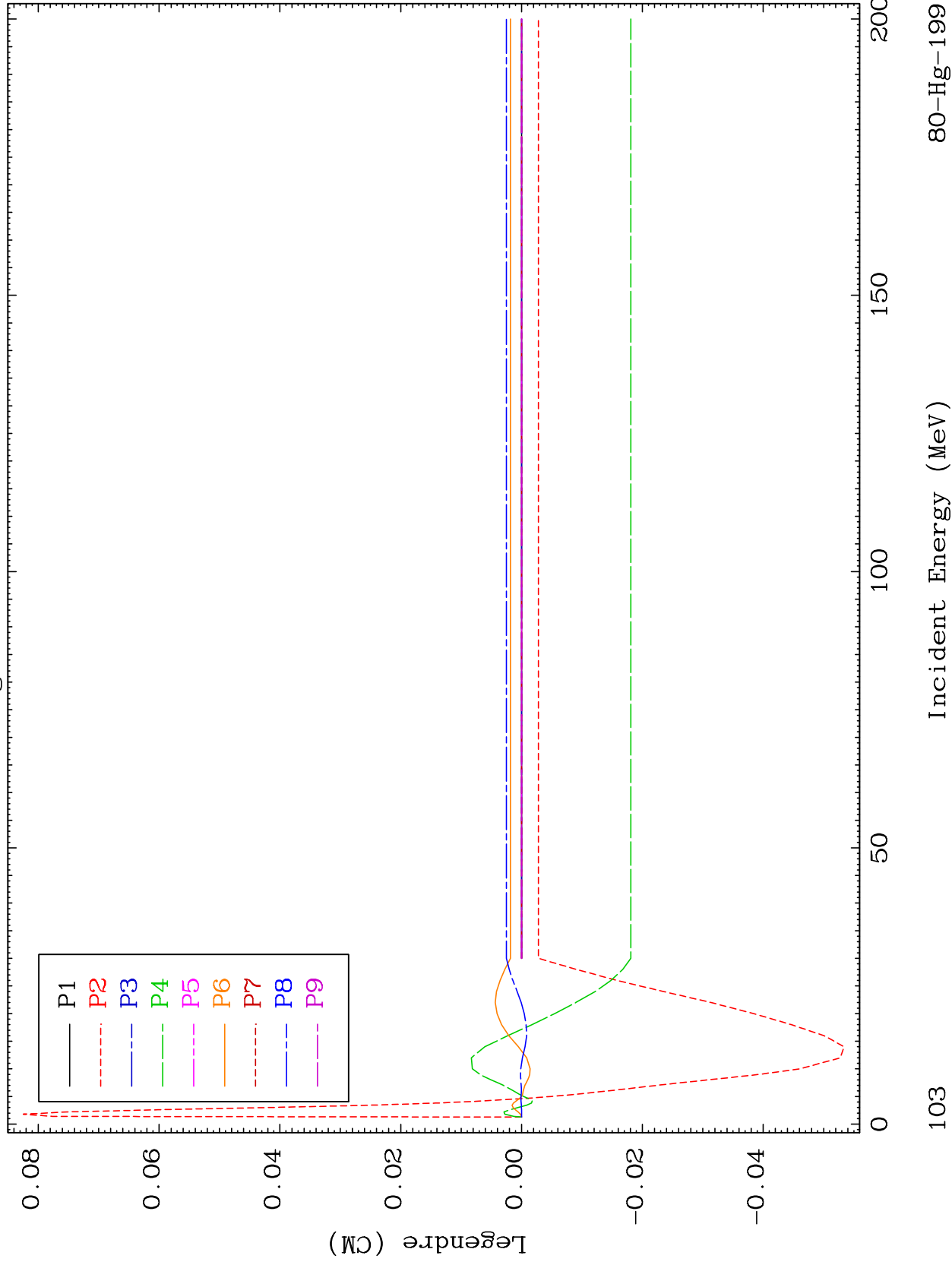




MAT 8034

1.268 MeV (n,n') Level
Legendre Coefficients

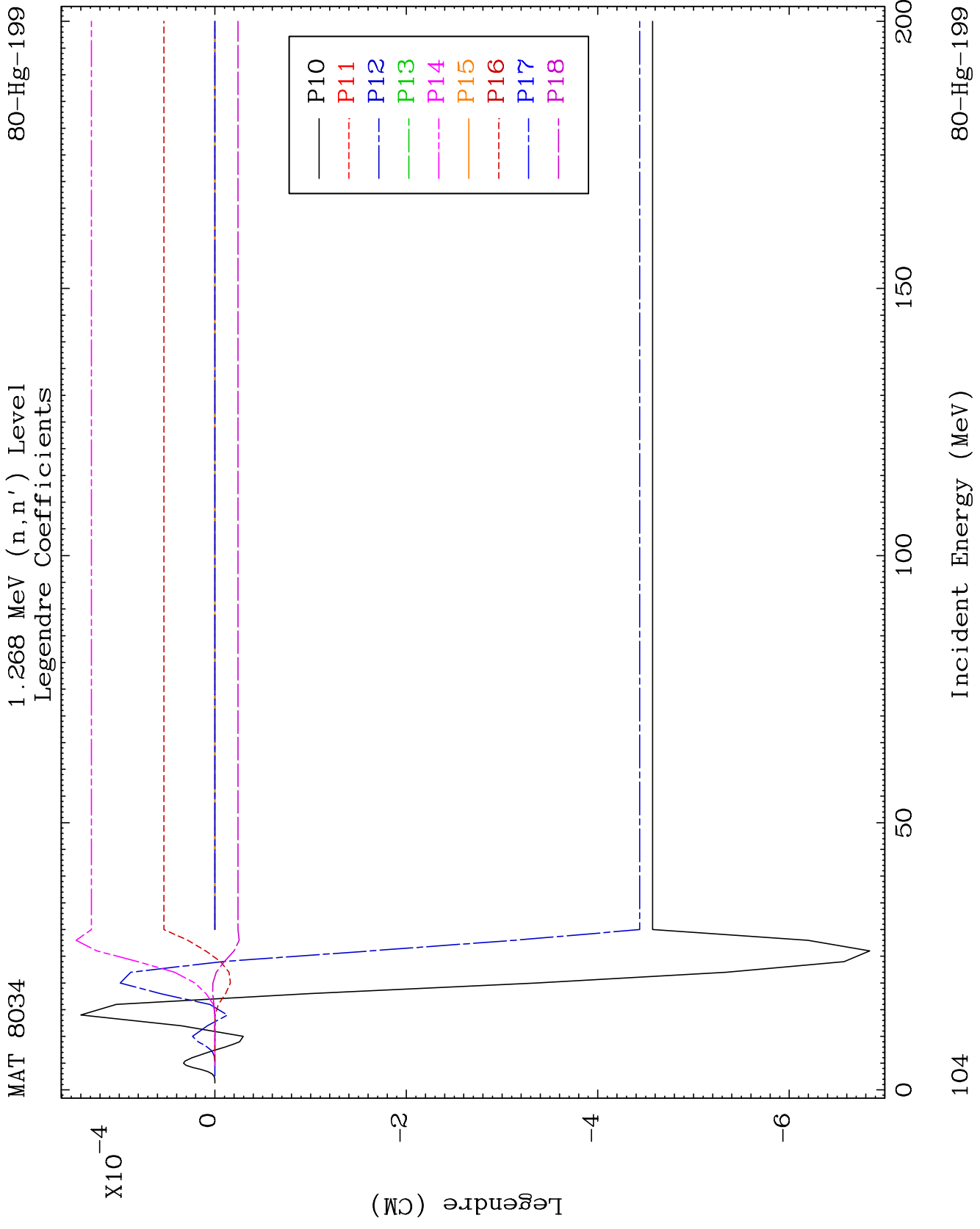
80-Hg-199

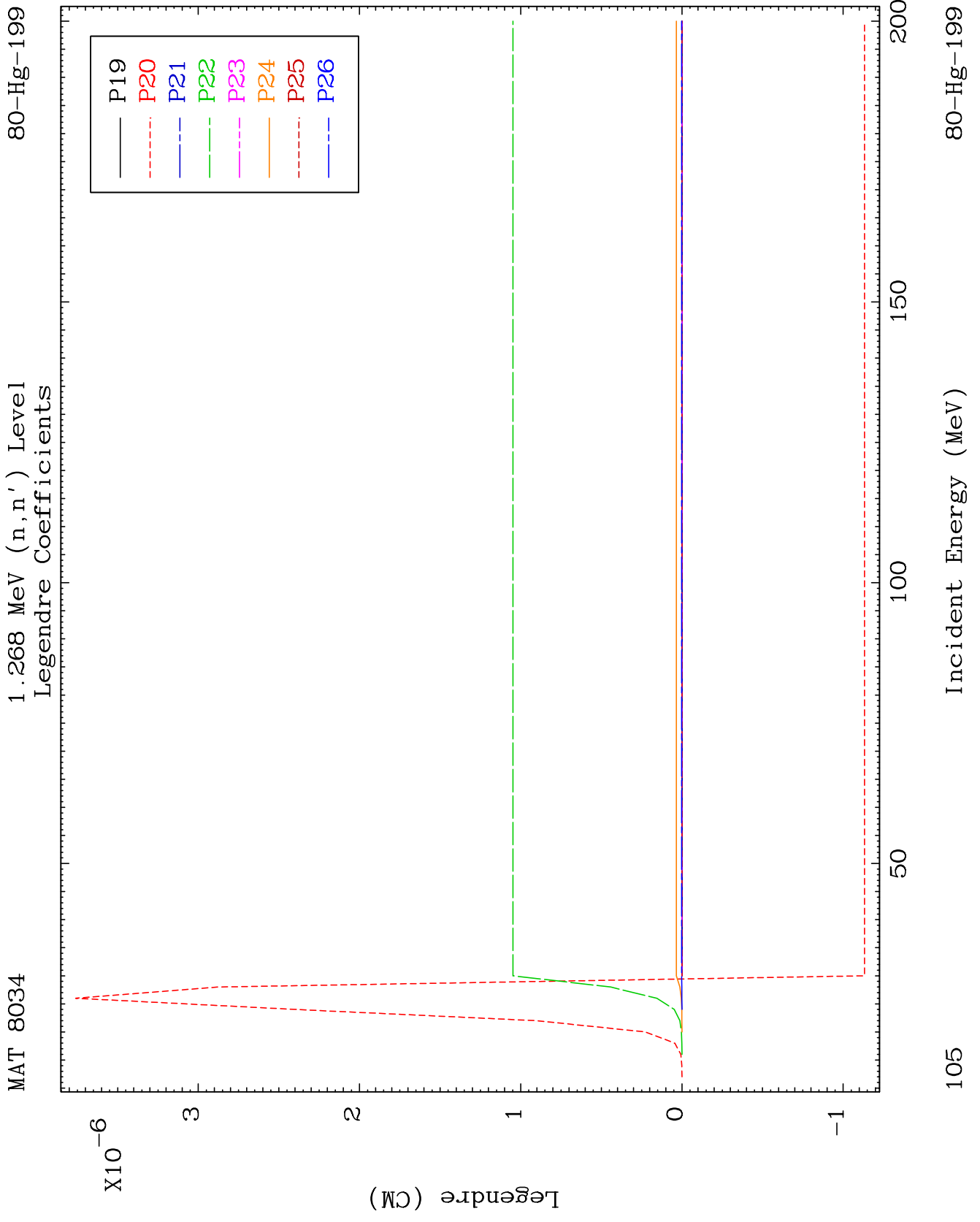


80-Hg-199

Incident Energy (MeV)

103

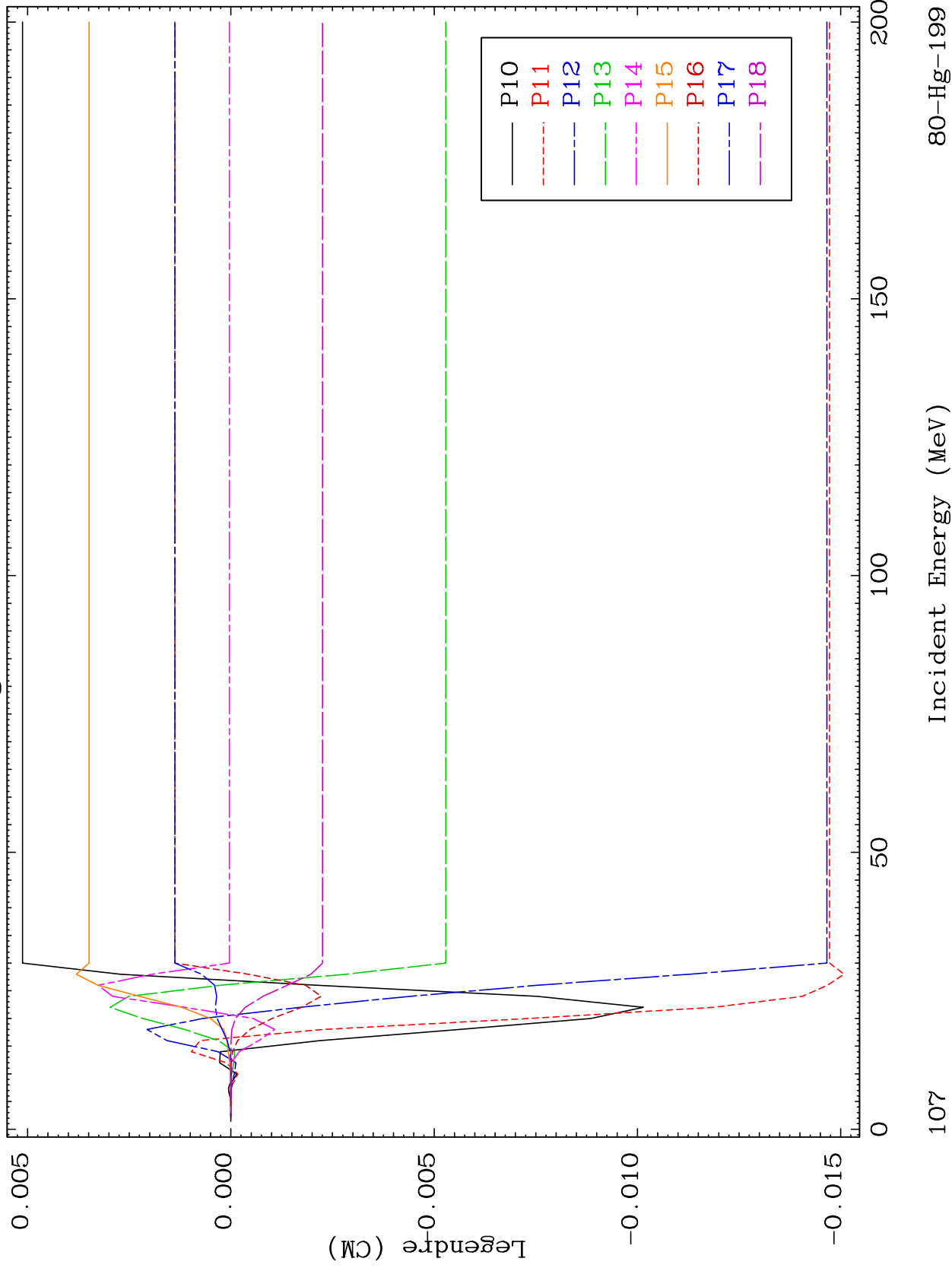


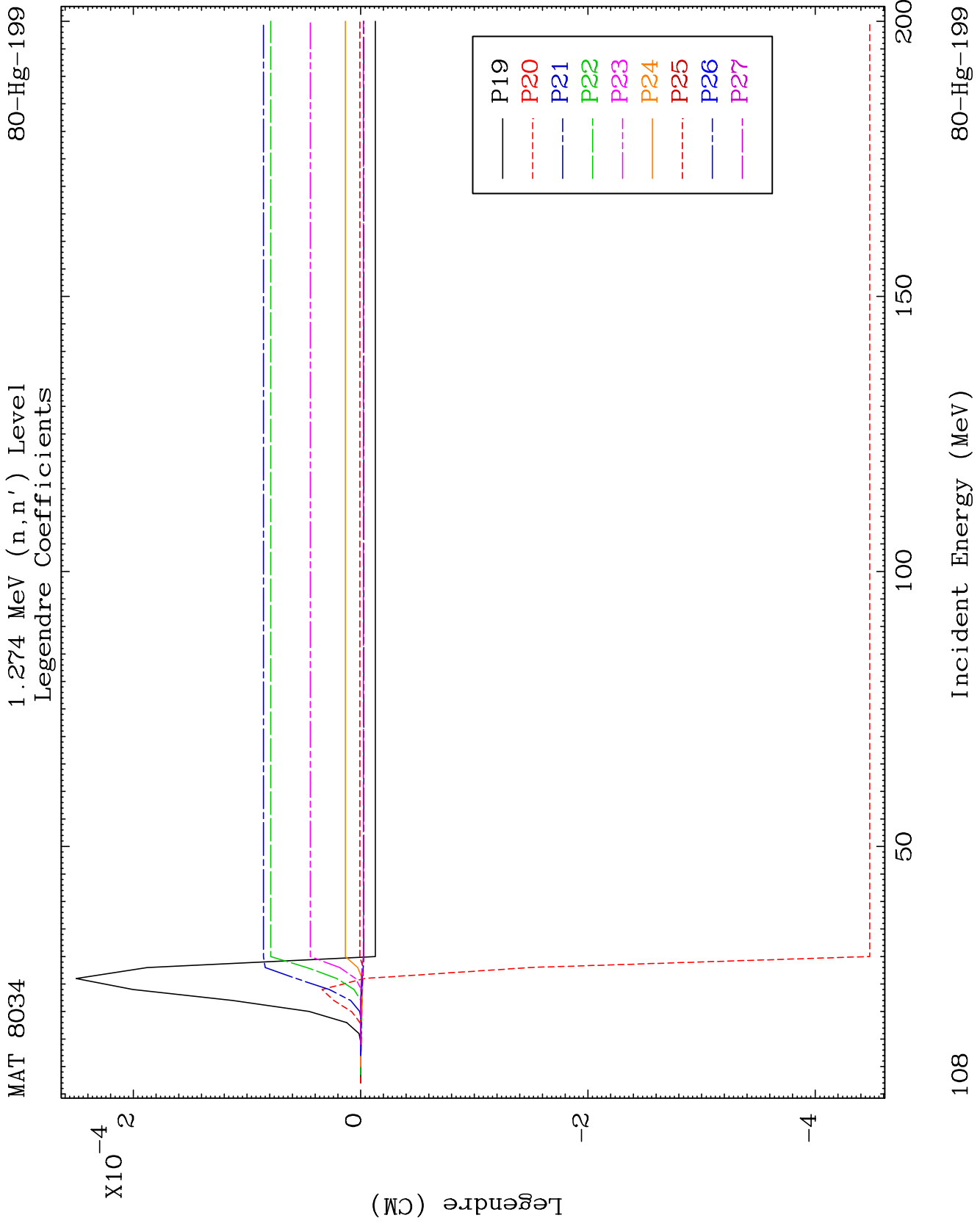


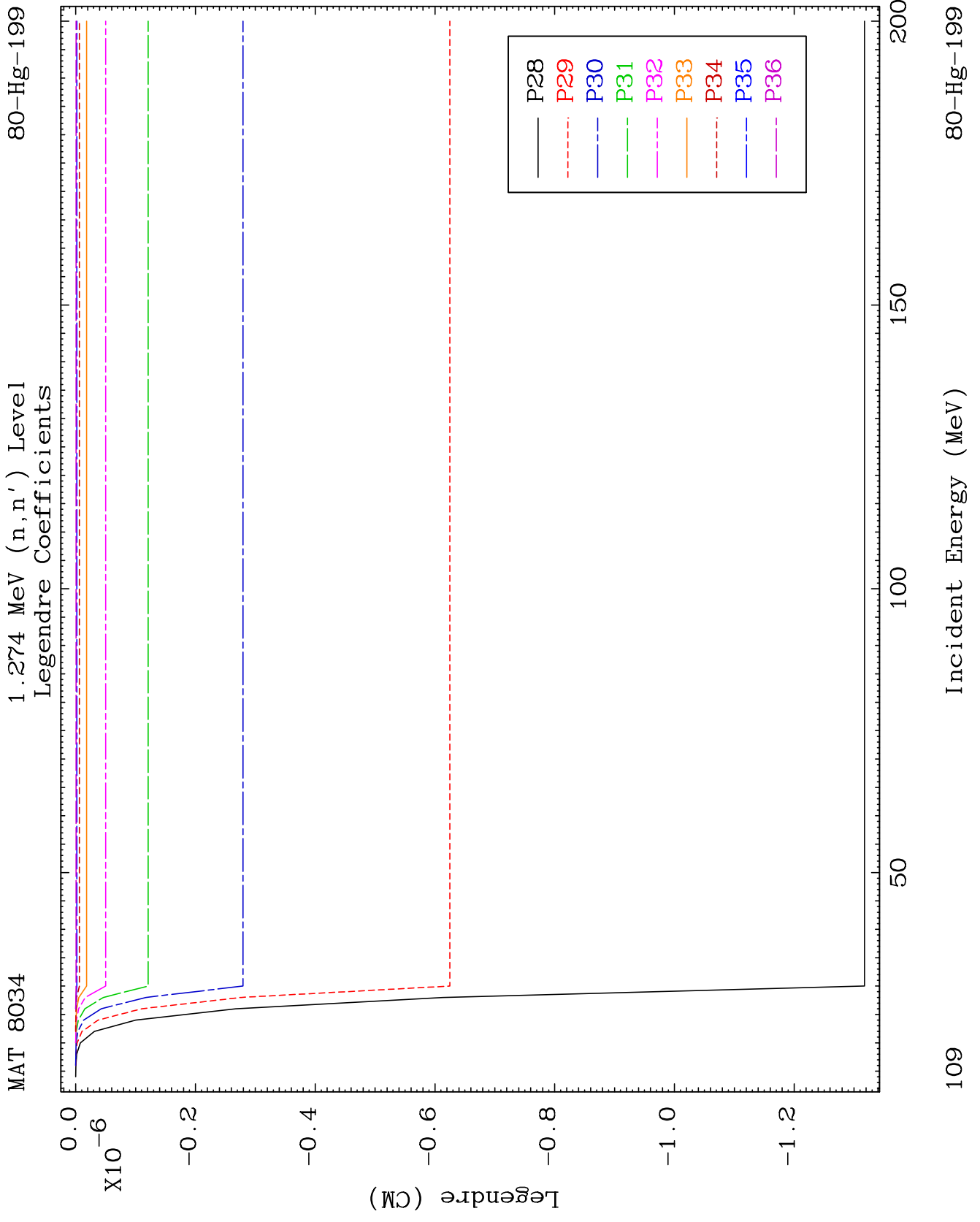
MAT 8034

1.274 MeV (n,n') Level
Legendre Coefficients

80-Hg-199



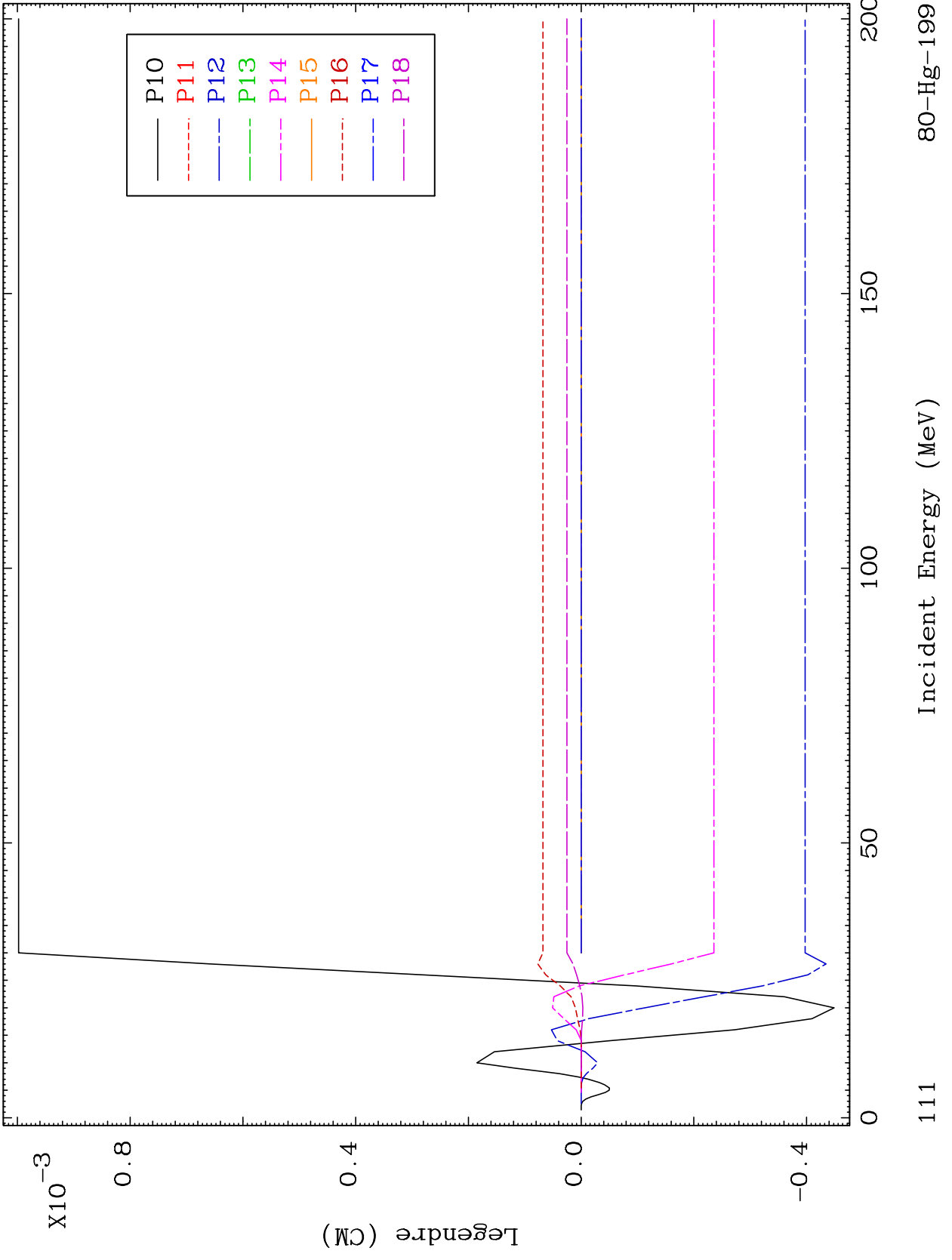




MAT 8034

1.318 MeV (n,n') Level
Legendre Coefficients

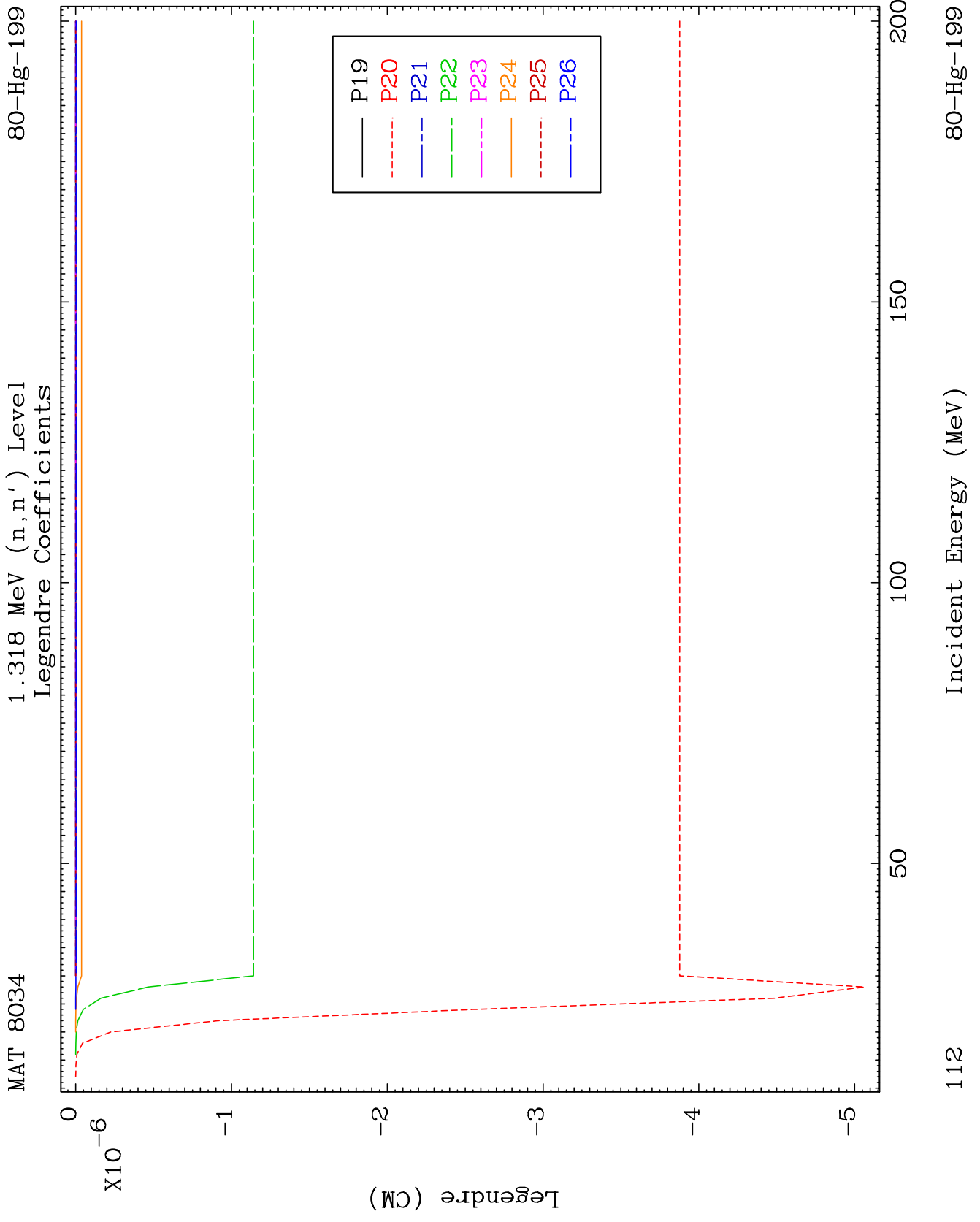
80-Hg-199



111

Incident Energy (MeV)

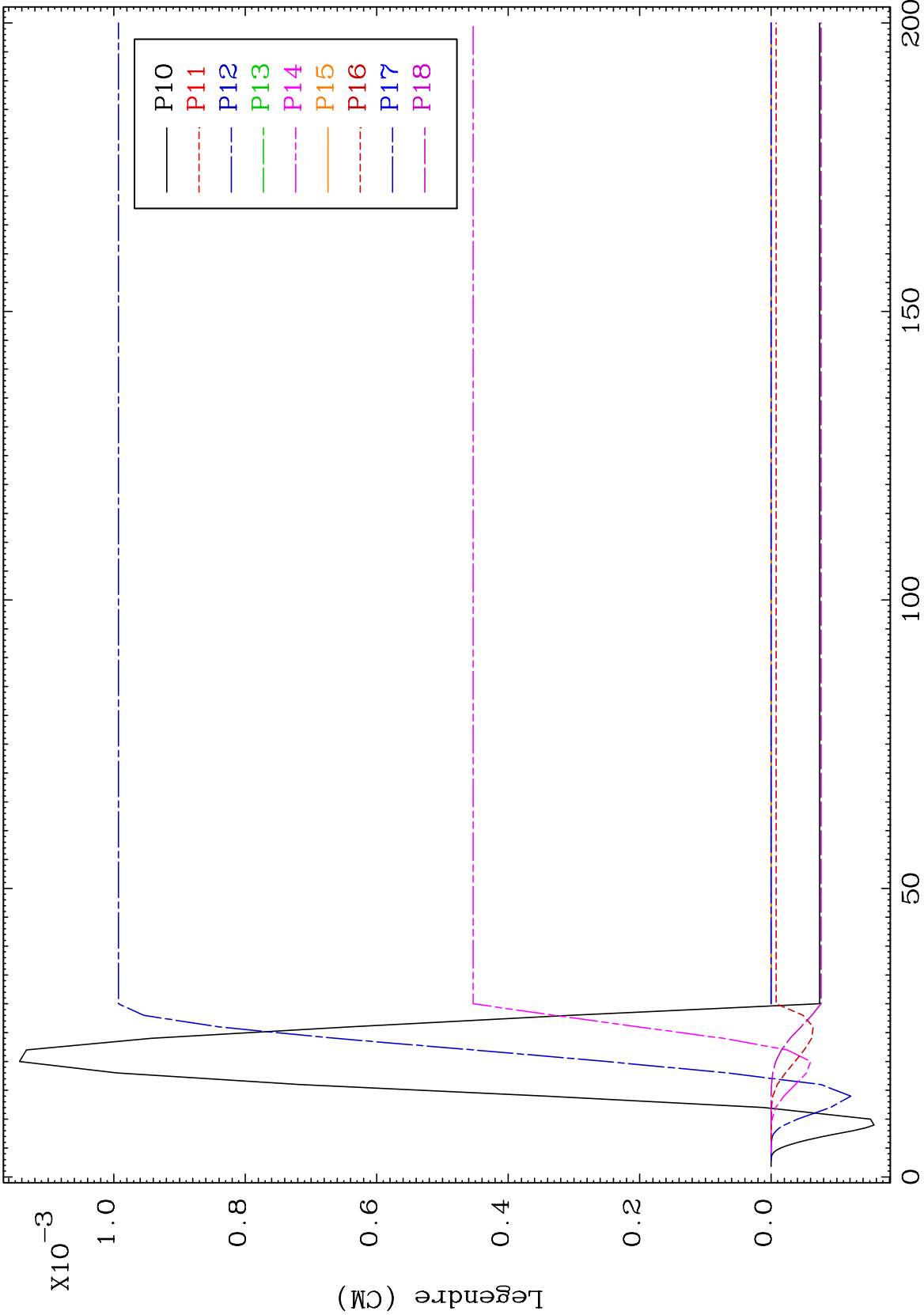
80-Hg-199



MAT 8034

1.328 MeV (n,n') Level
Legendre Coefficients

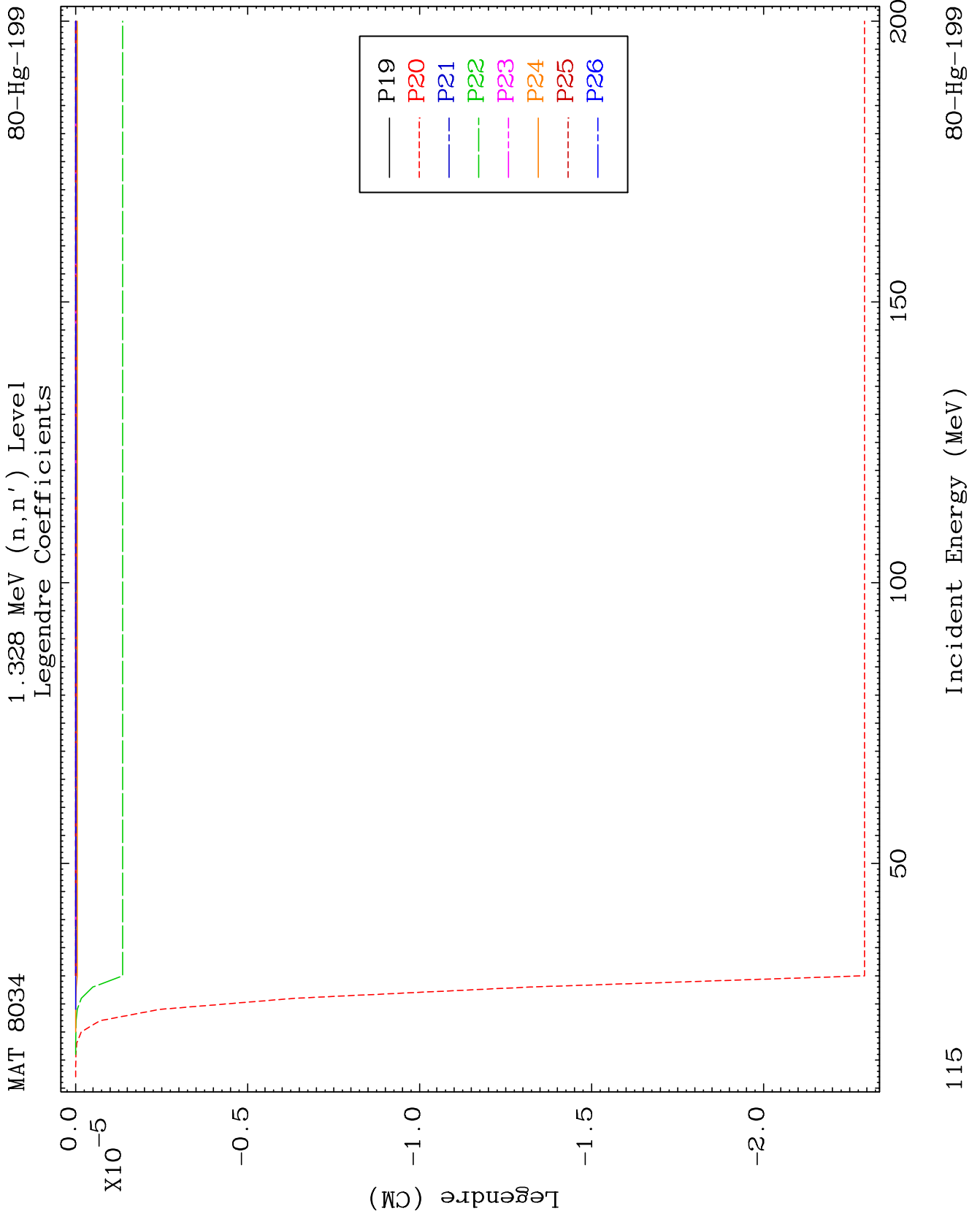
80-Hg-199



80-Hg-199

Incident Energy (MeV)

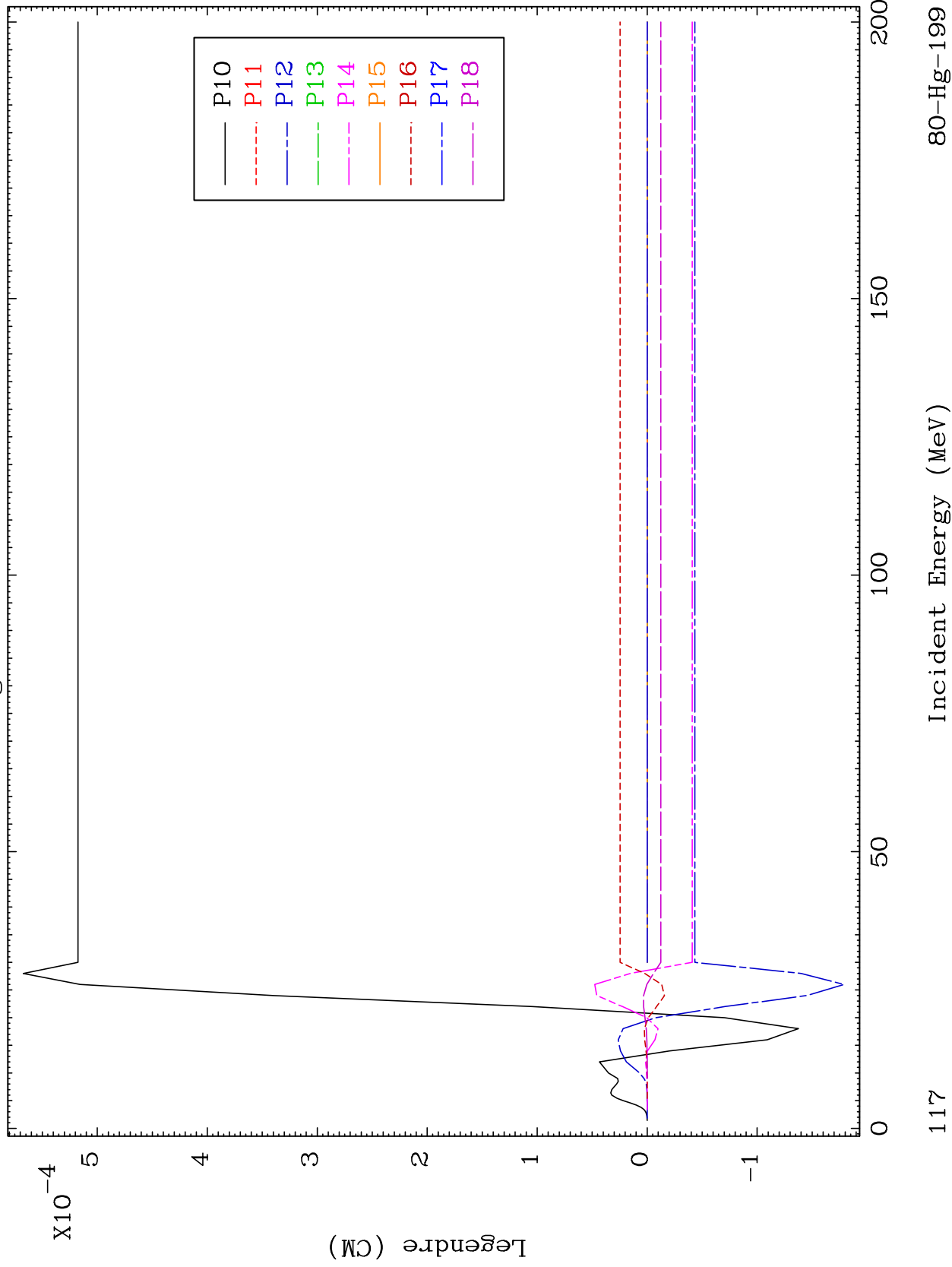
114



MAT 8034

1.357 MeV (n,n') Level
Legendre Coefficients

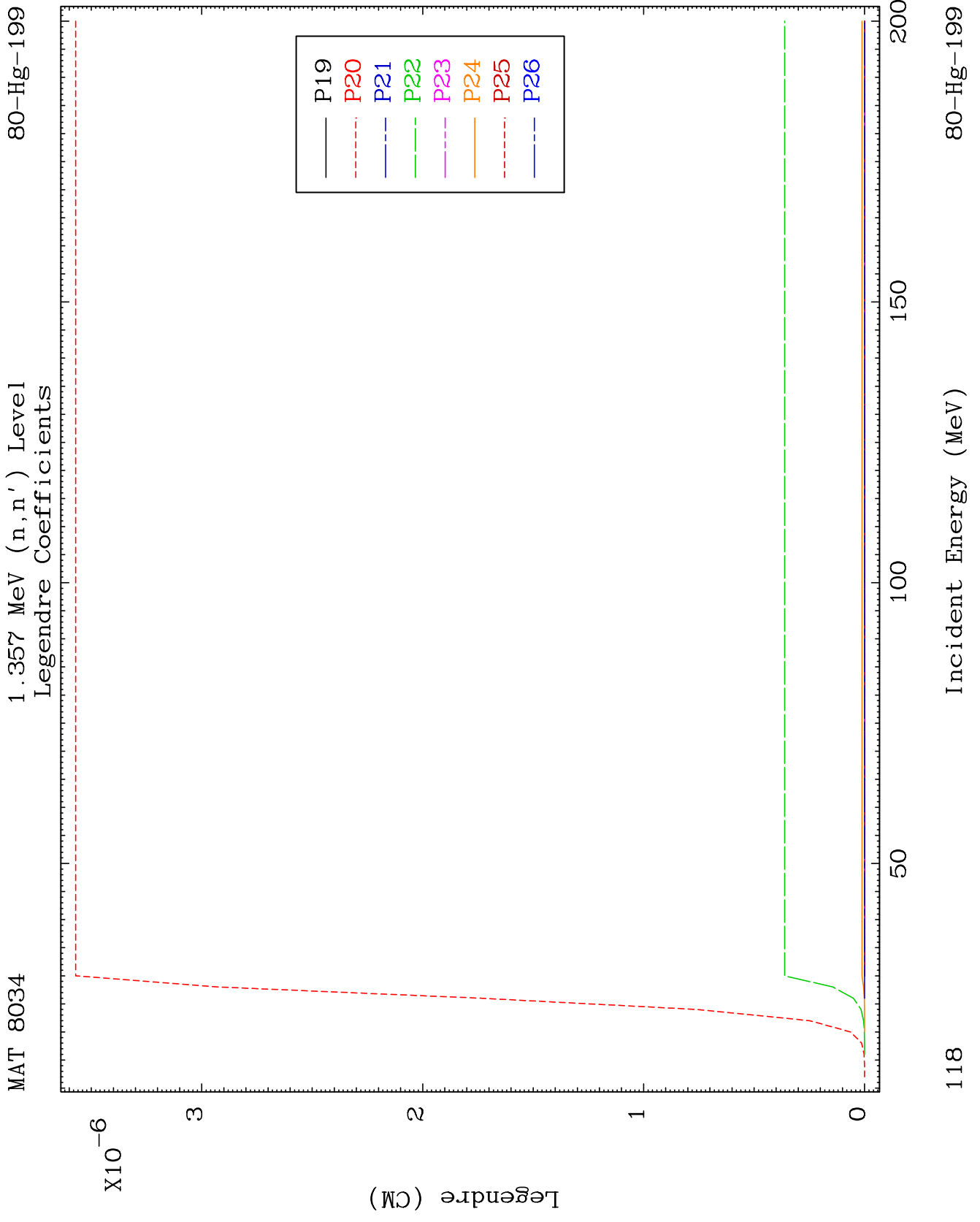
80-Hg-199

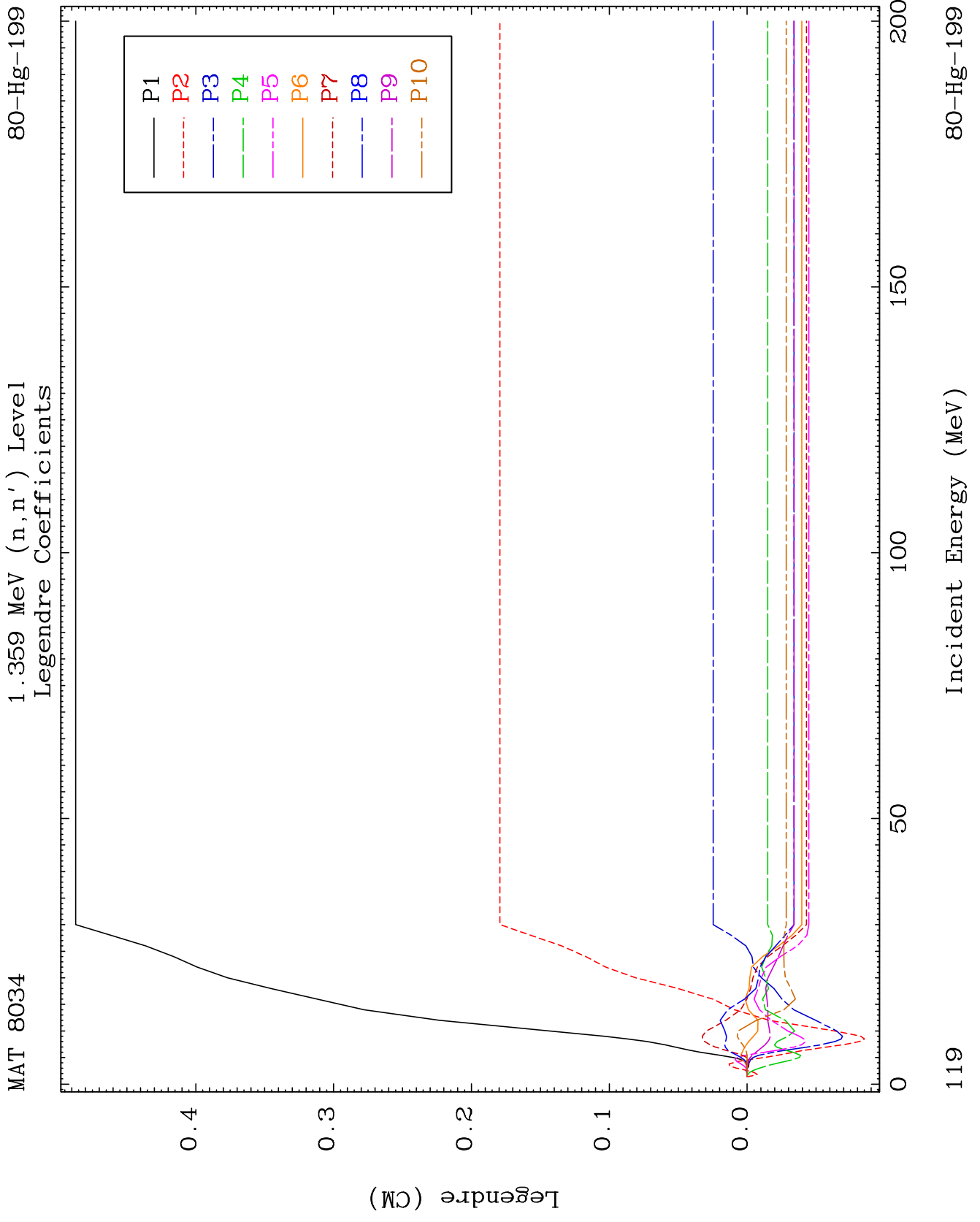


80-Hg-199

Incident Energy (MeV)

117

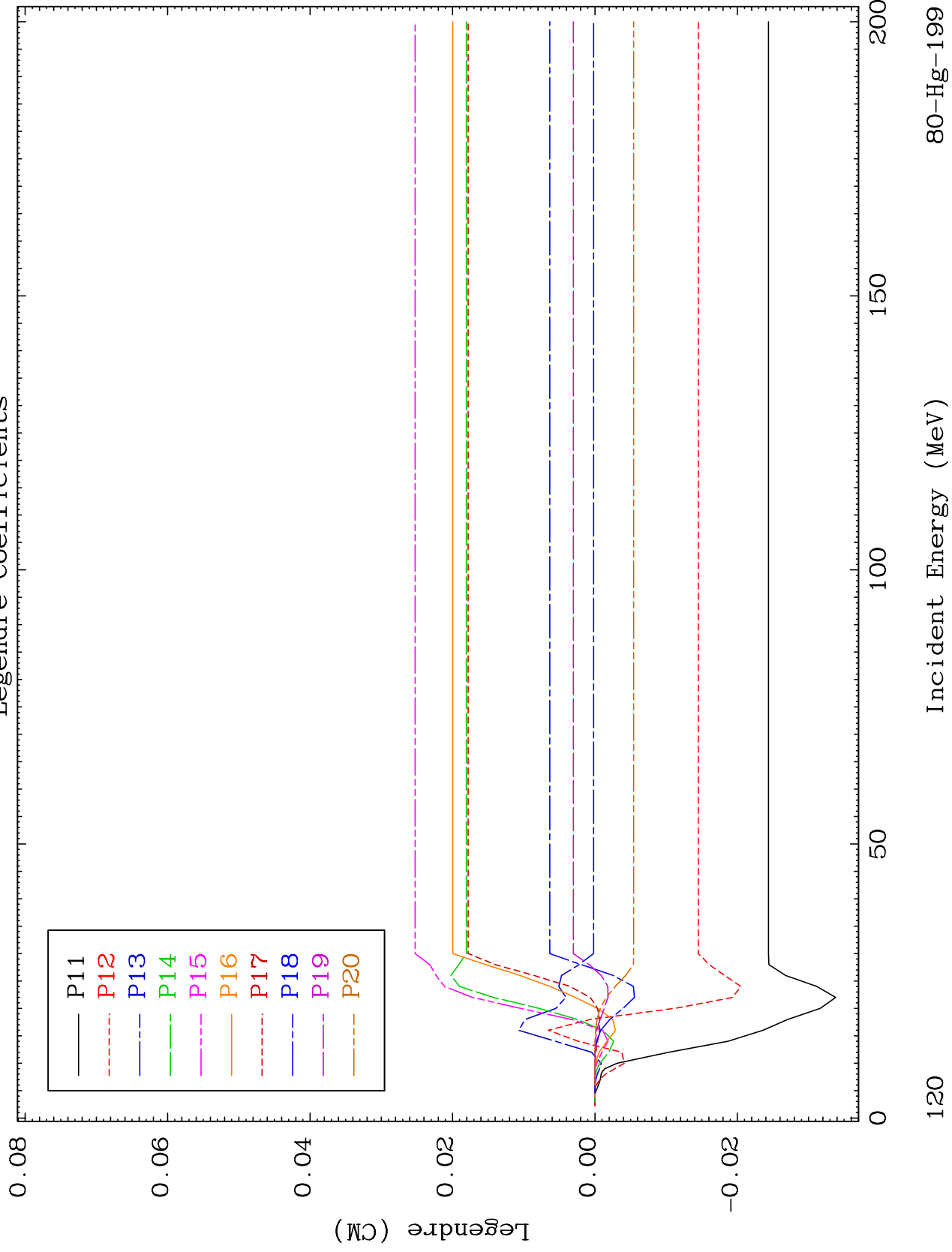




MAT 8034

1.359 MeV (n,n') Level
Legendre Coefficients

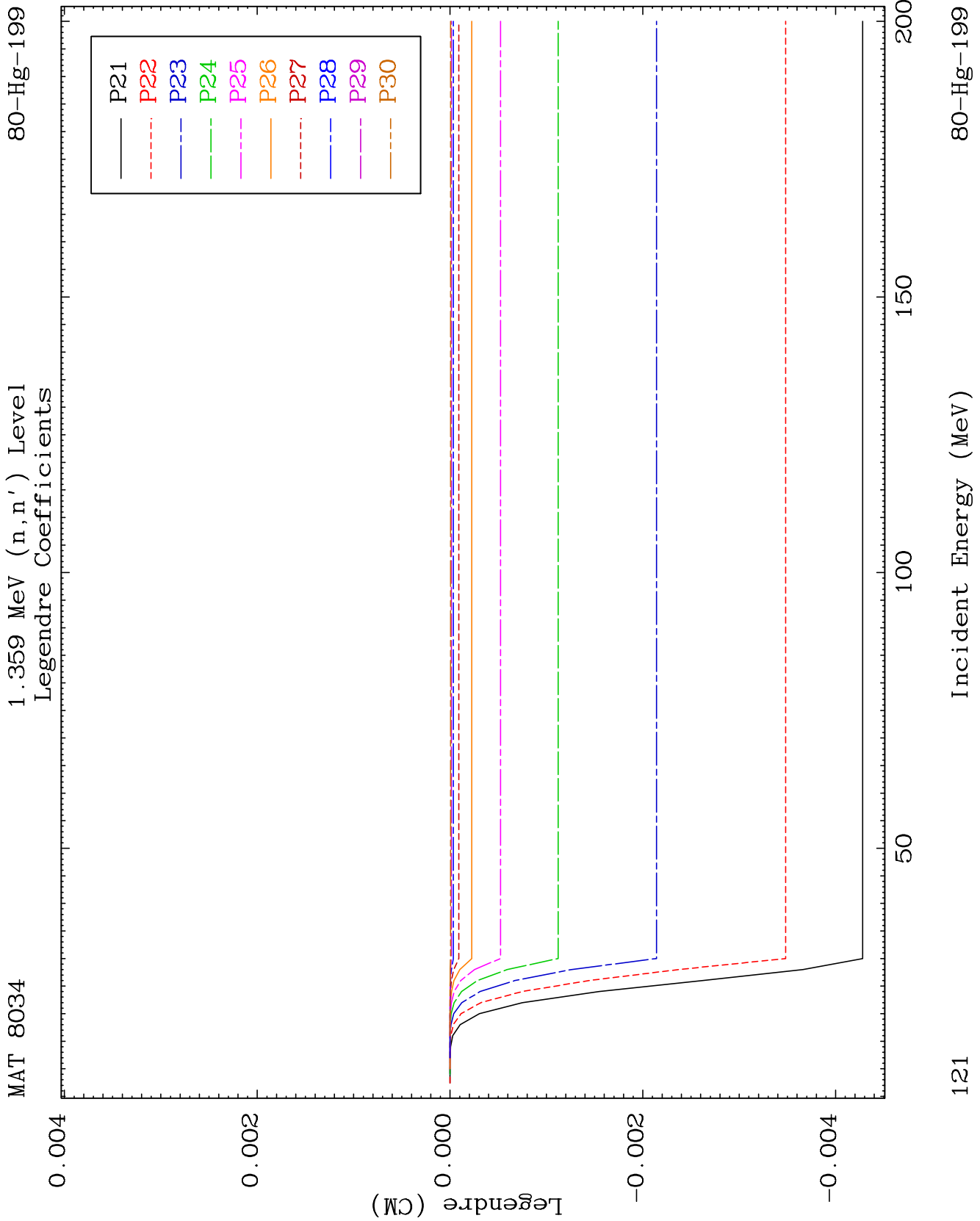
80-Hg-199

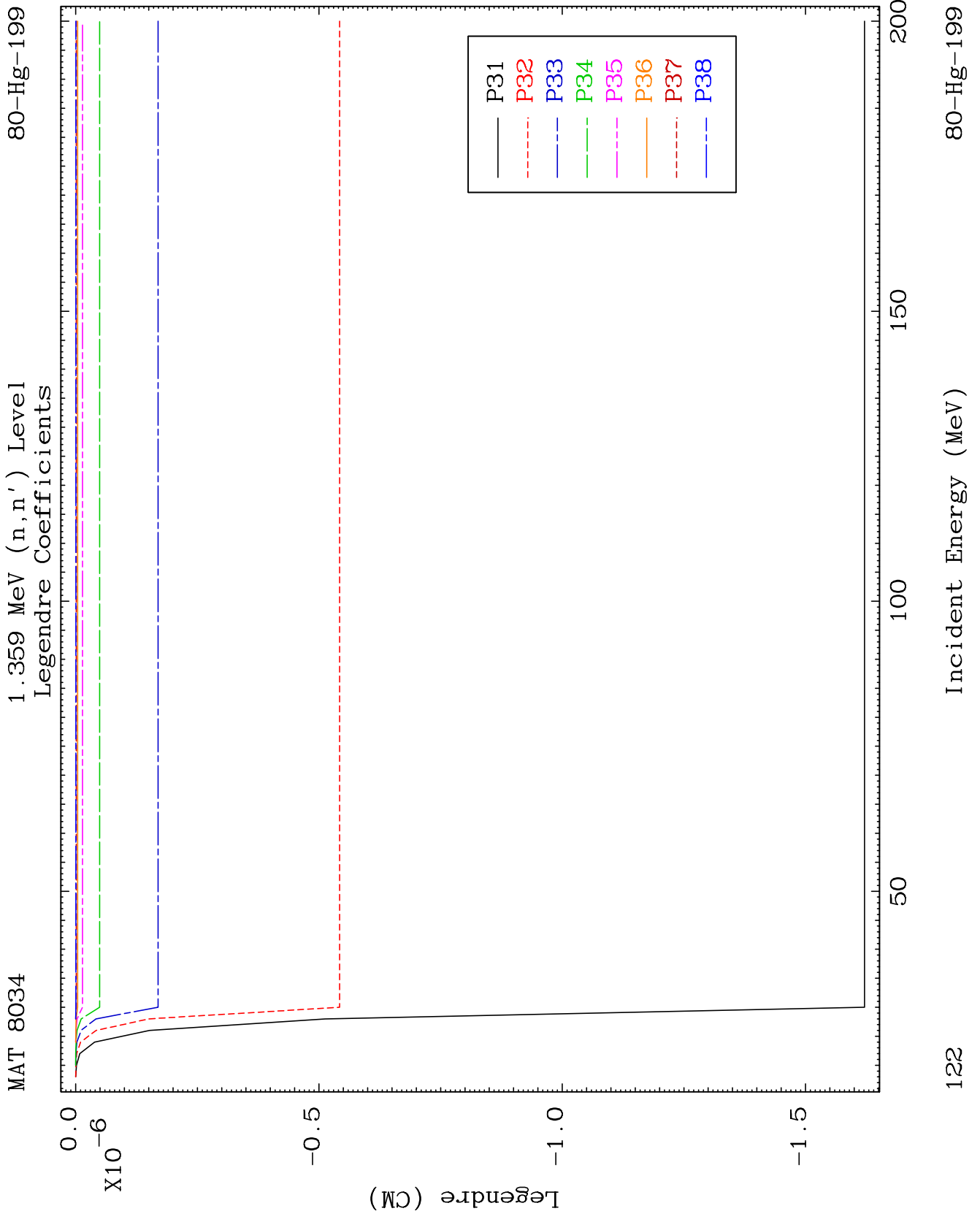


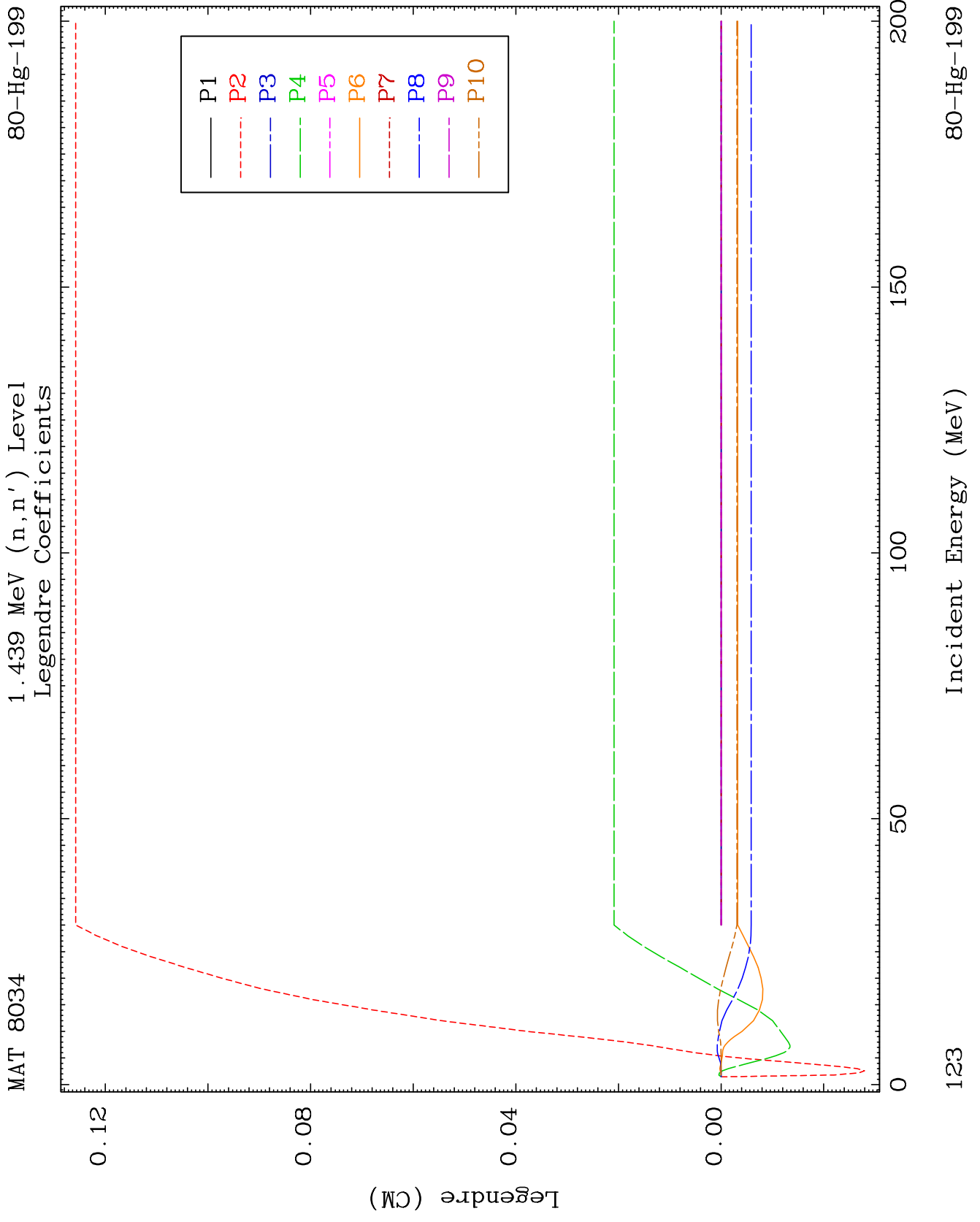
80-Hg-199

Incident Energy (MeV)

120



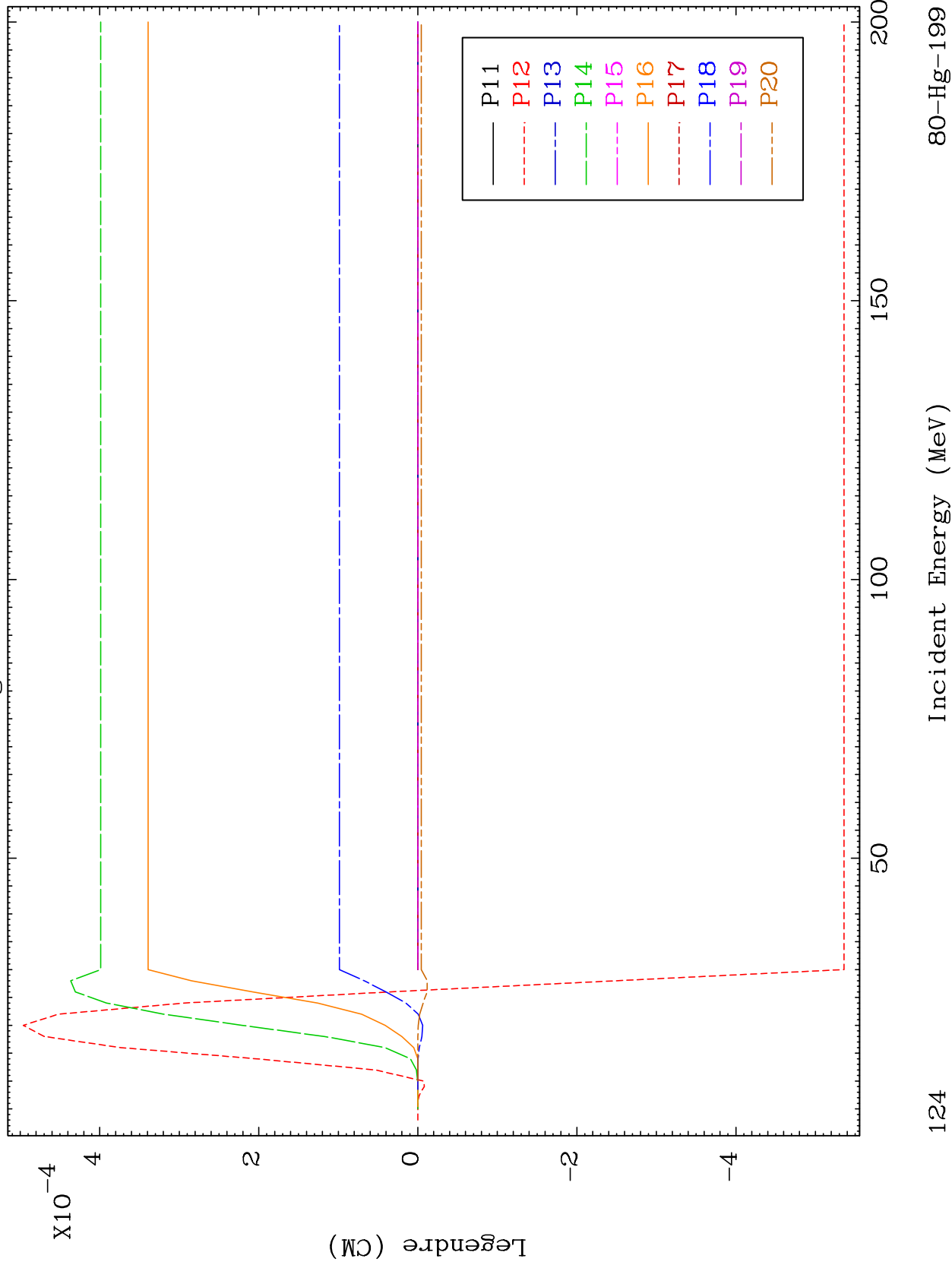




MAT 8034

1.439 MeV (n,n') Level
Legendre Coefficients

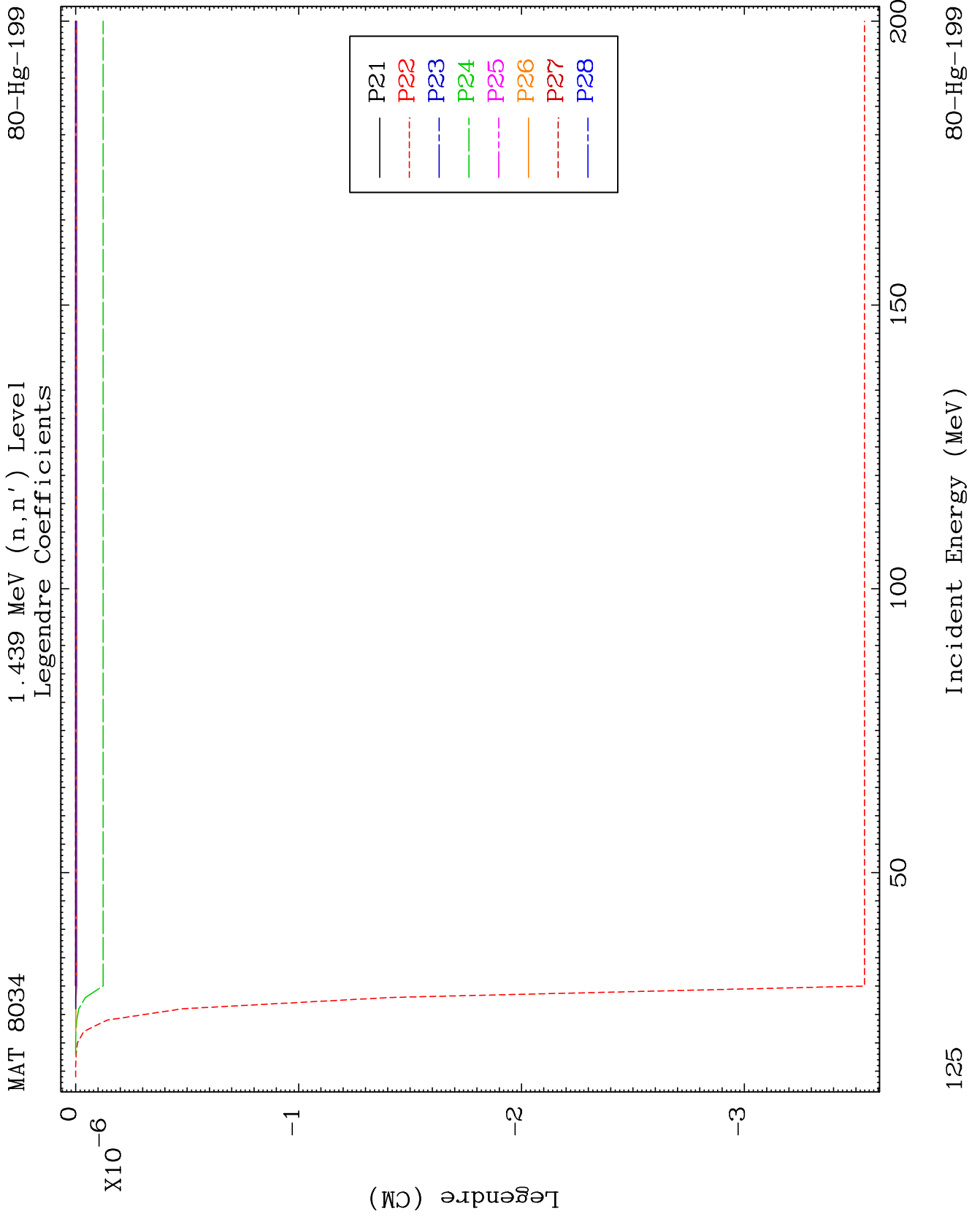
80-Hg-199



124

Incident Energy (MeV)

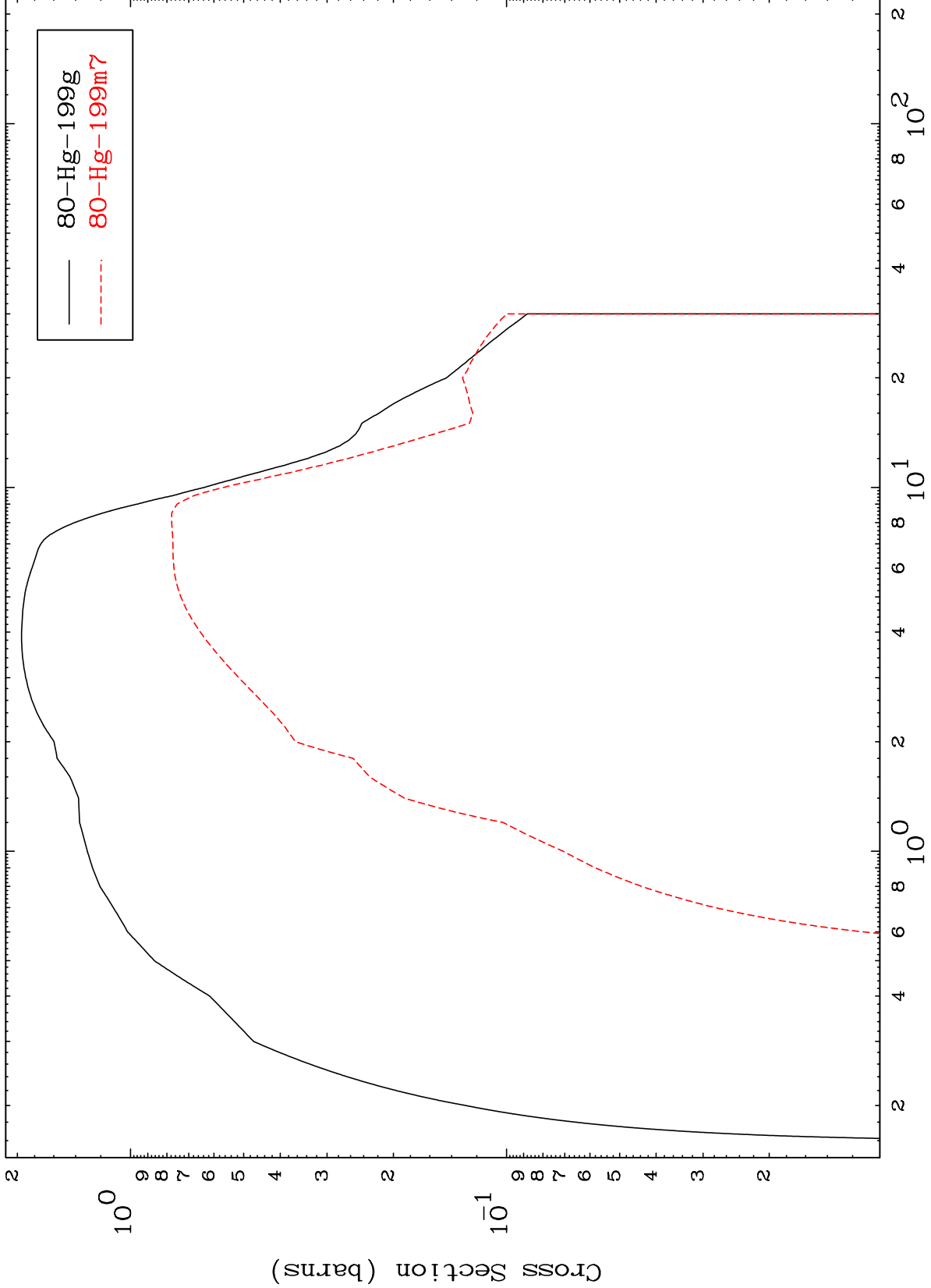
80-Hg-199



MAT 8034

Inelastic
Radionuclide Production Cross Section

80-Hg-199



126

Incident Energy (MeV)

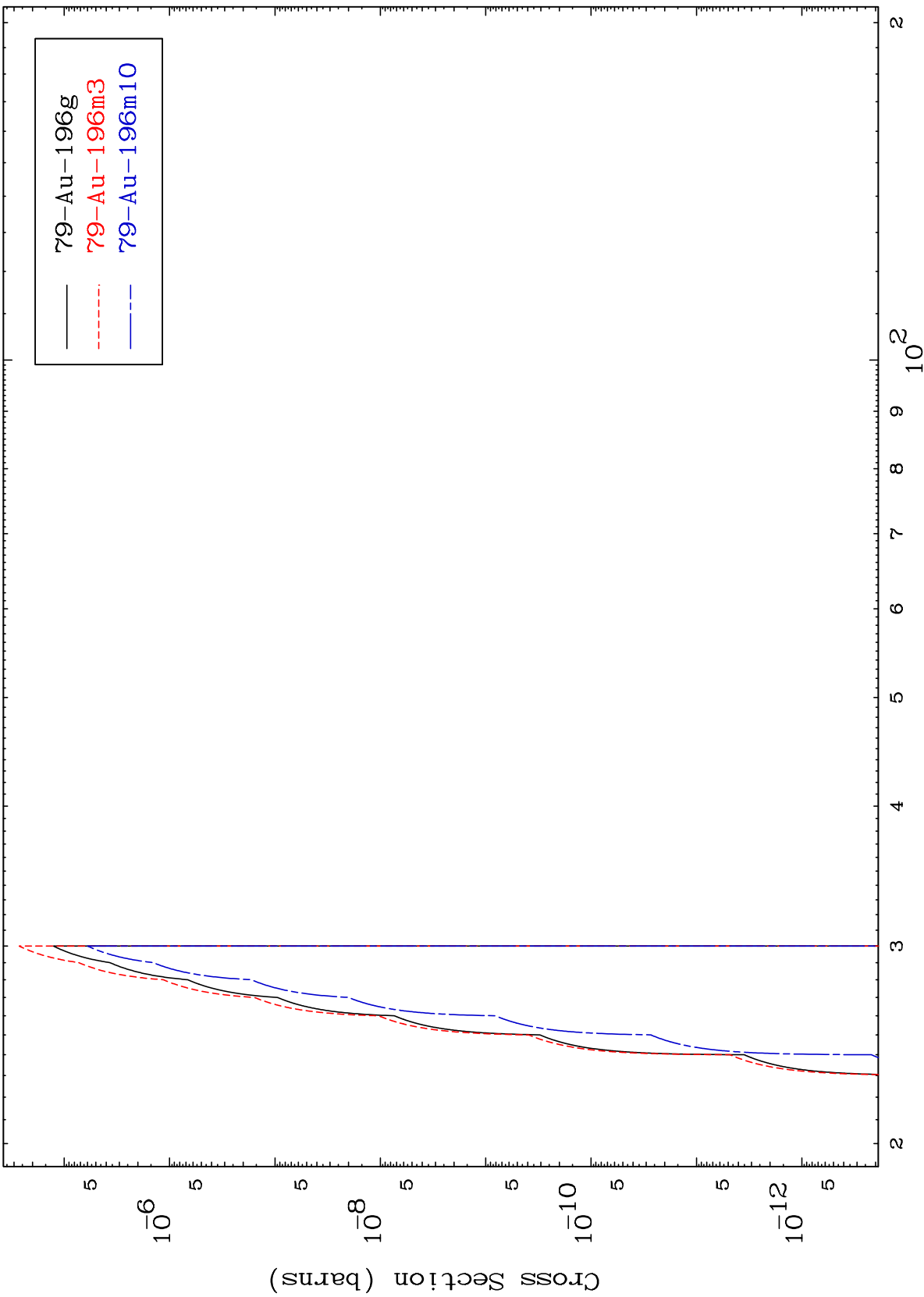
80-Hg-199

MAT 8034

(n,2n) d

80-Hg-199

Radionuclide Production Cross Section



127

Incident Energy (MeV)

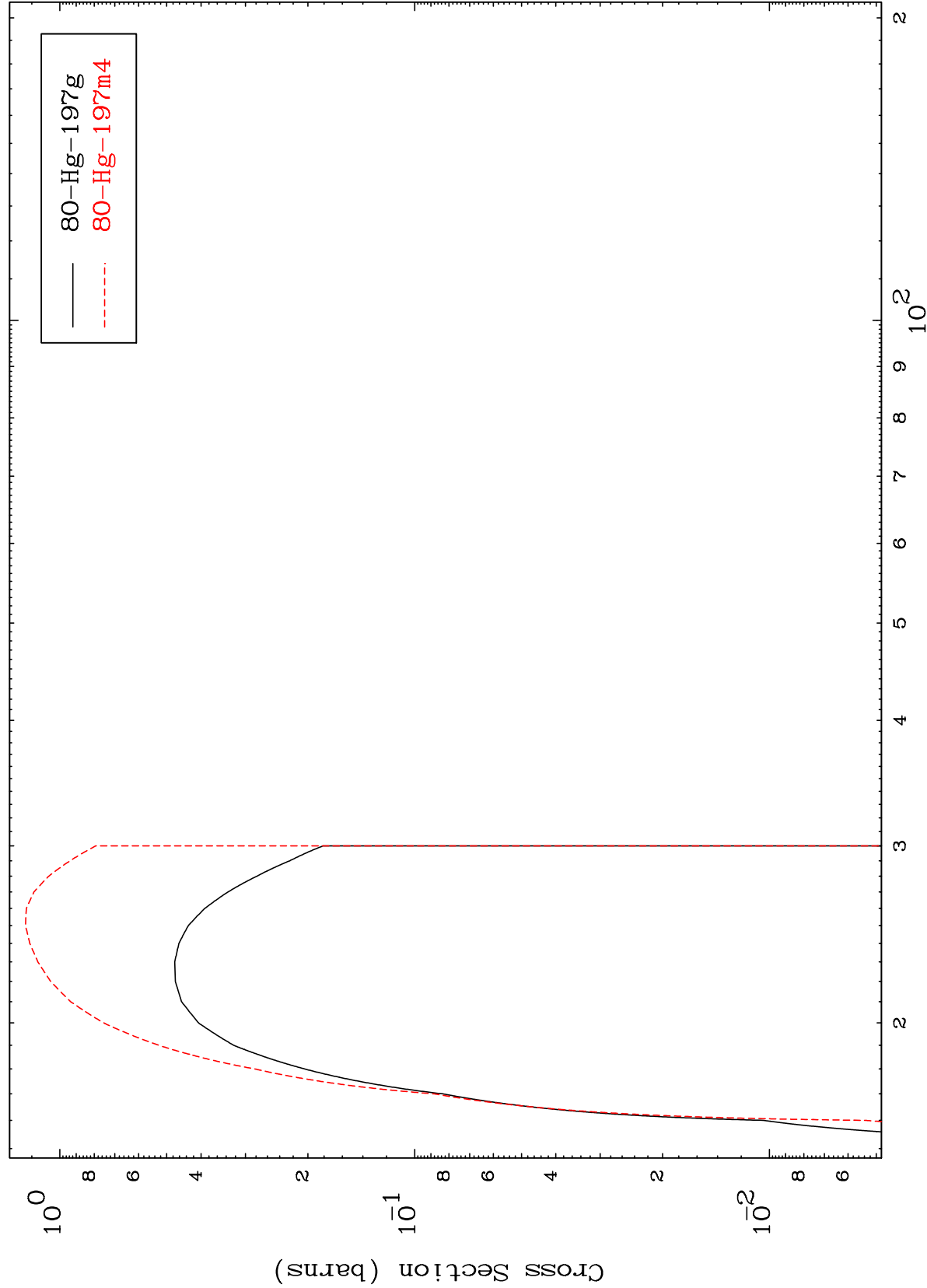
80-Hg-199

MAT 8034

(n,3n)

80-Hg-199

Radionuclide Production Cross Section



80-Hg-197g
80-Hg-197m4

128

Incident Energy (MeV)

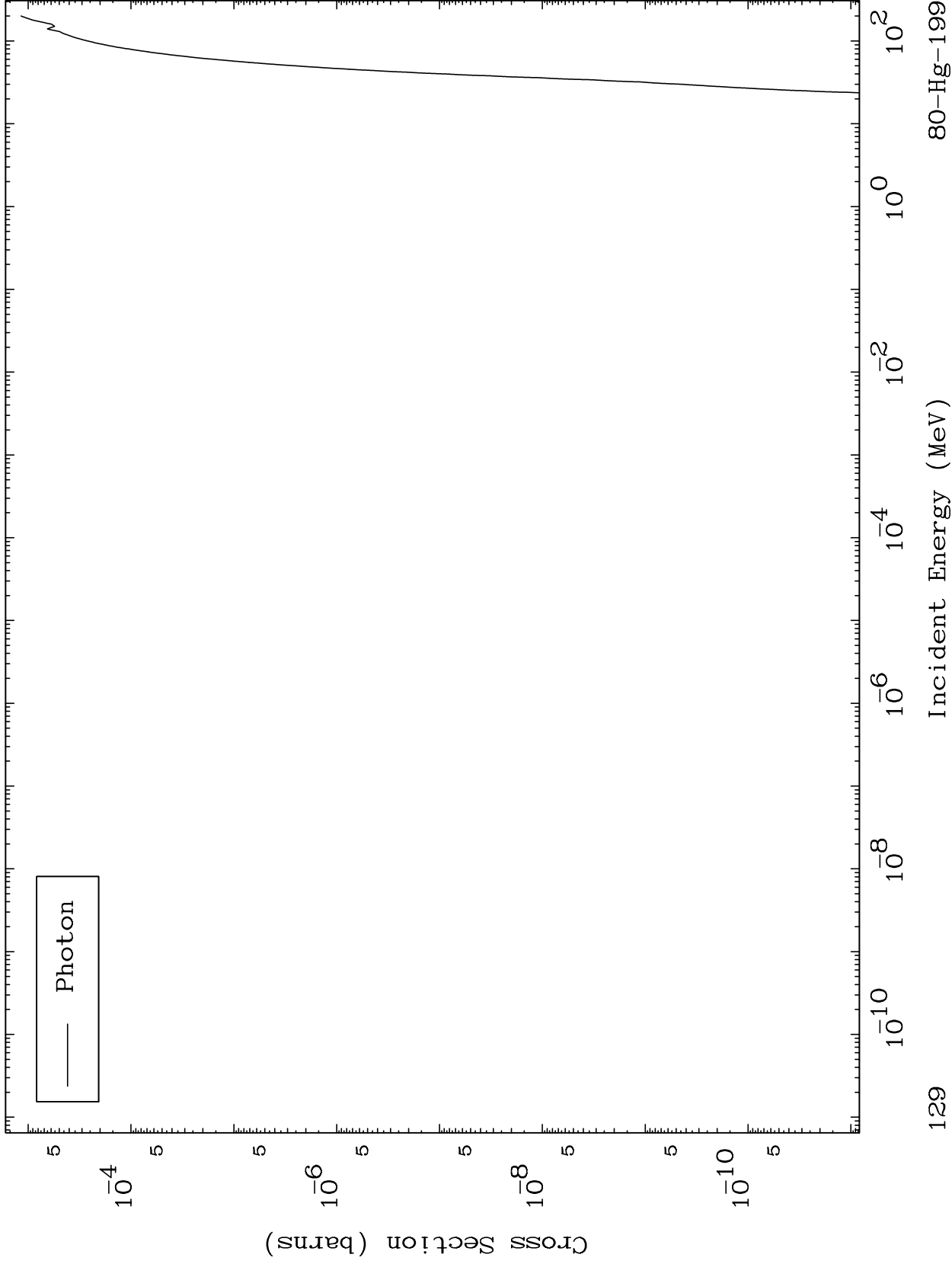
80-Hg-199

MAT 8034

Fission

80-Hg-199

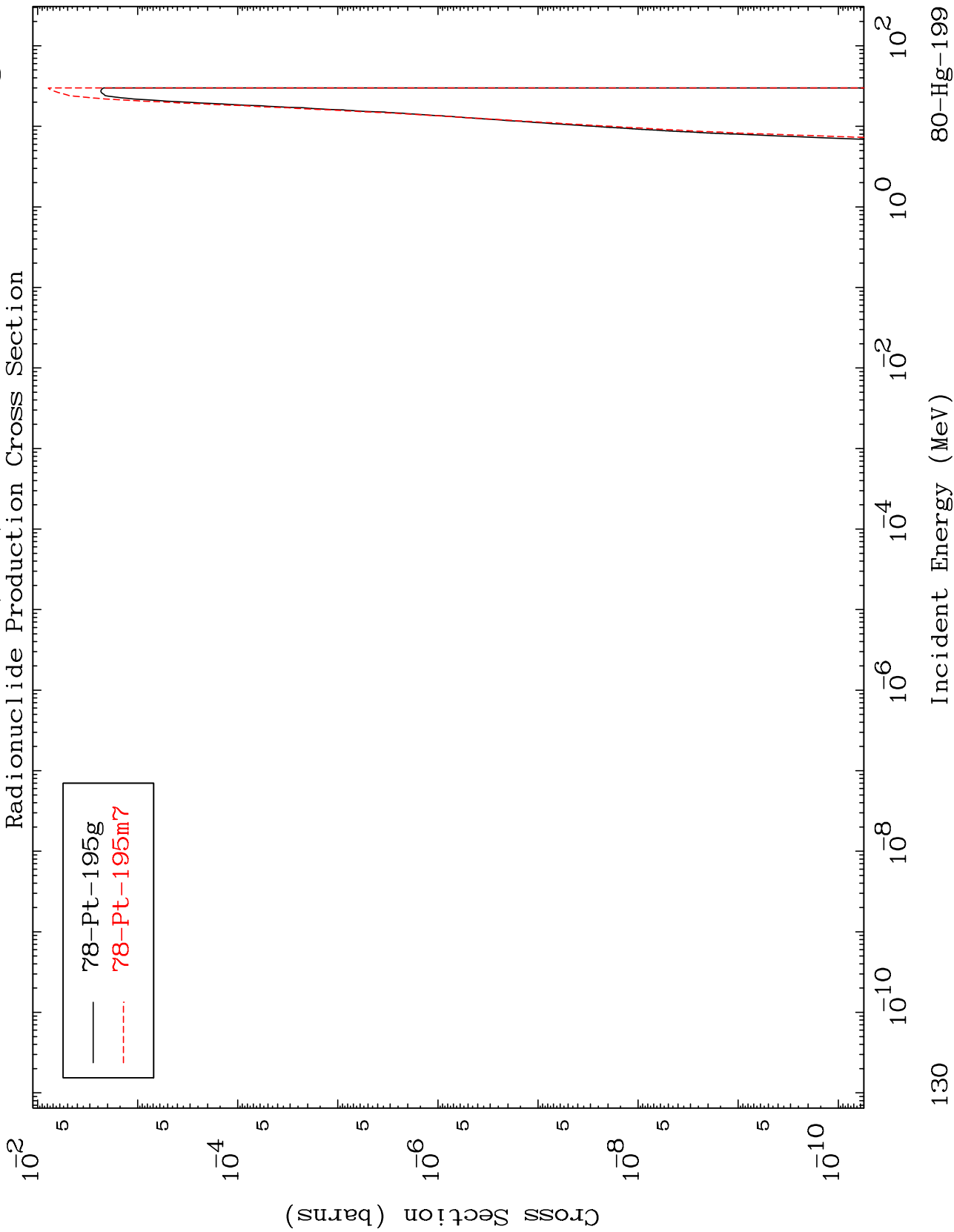
Radionuclide Production Cross Section



MAT 8034

$(n, n') \alpha$

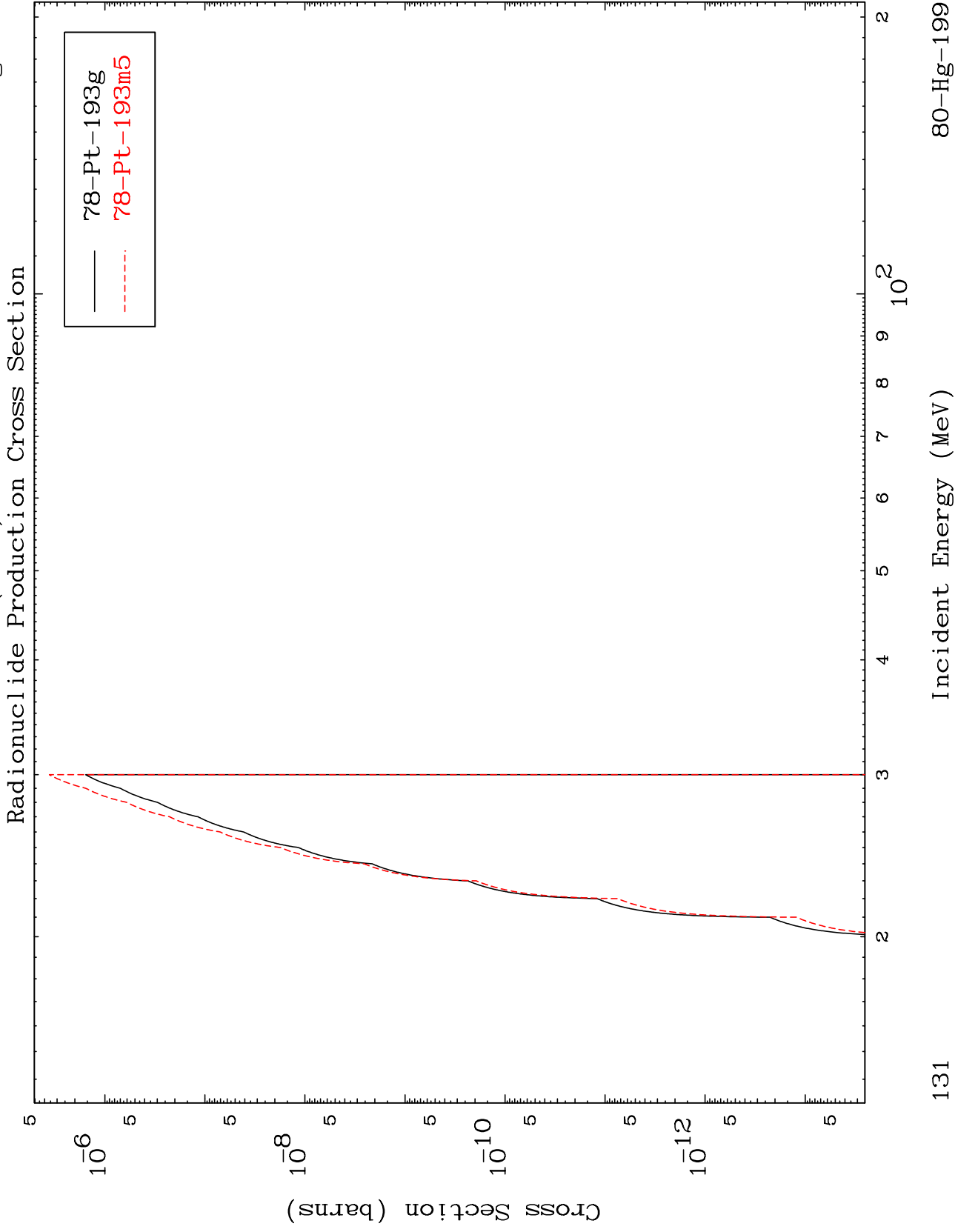
80-Hg-199



MAT 8034

$(n,3n) \alpha$

80-Hg-199



131

Incident Energy (MeV)

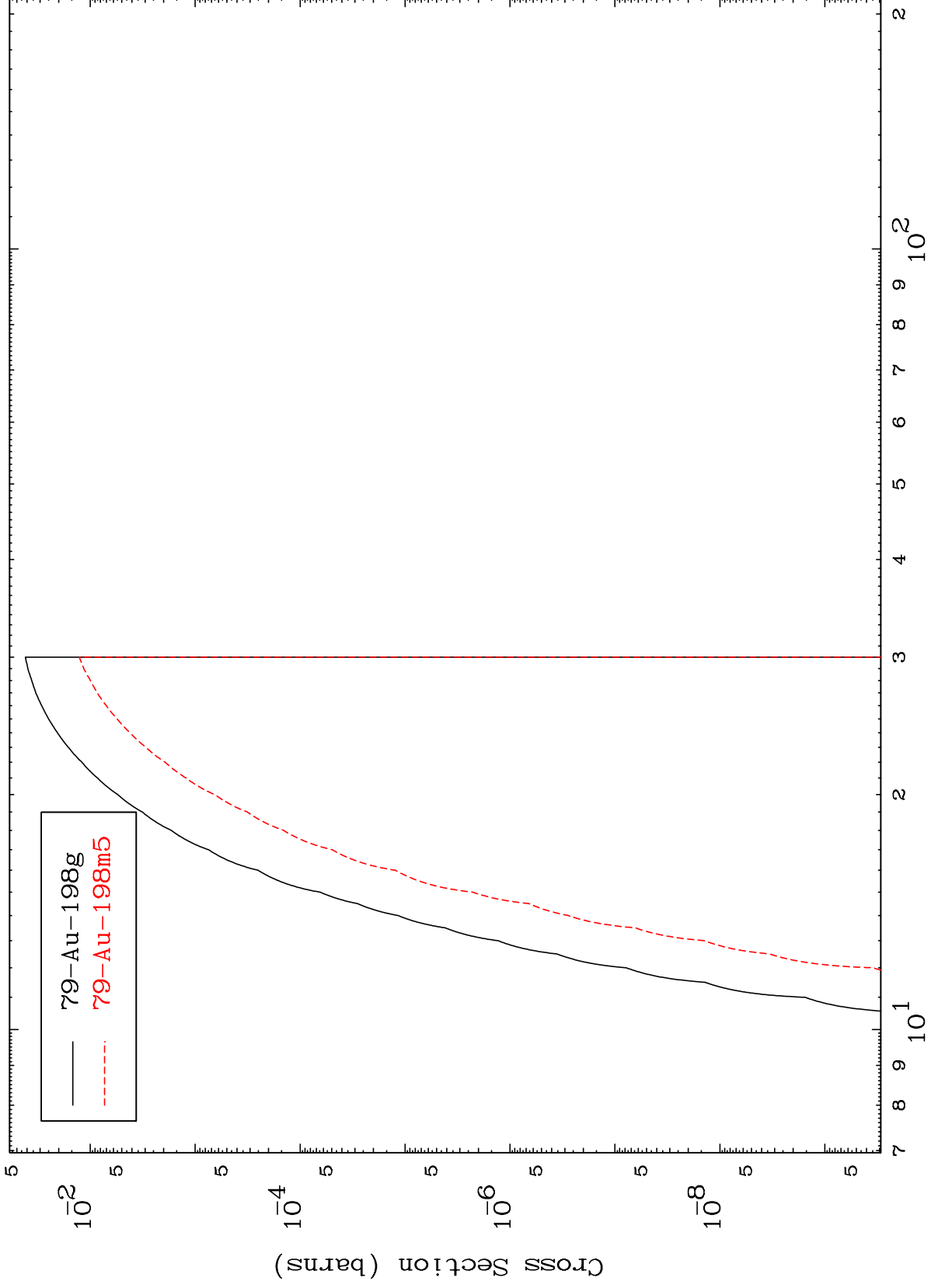
80-Hg-199

MAT 8034

(n,n') p

80-Hg-199

Radionuclide Production Cross Section



132

Incident Energy (MeV)

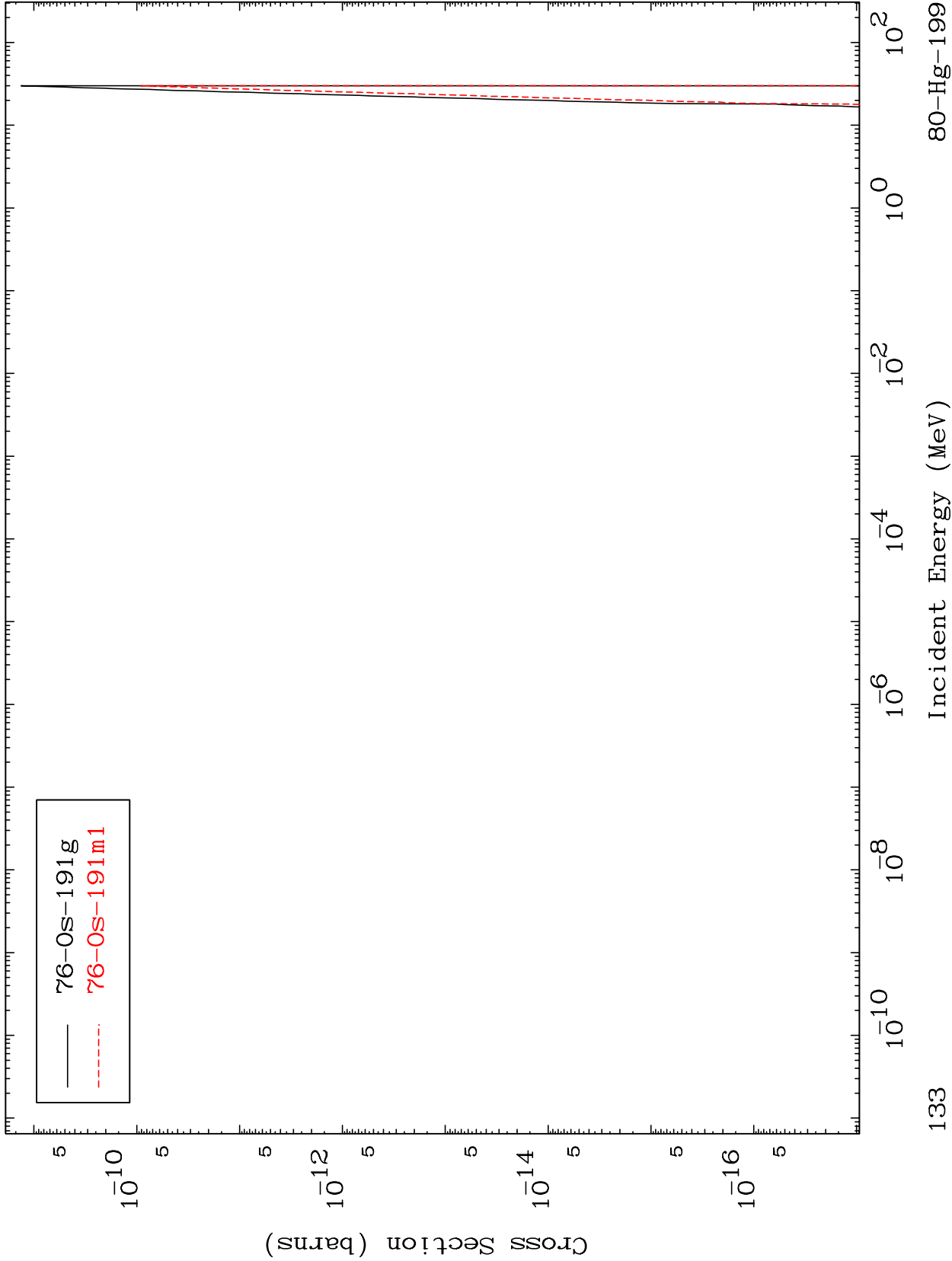
80-Hg-199

MAT 8034

(n,n') 2 α

80-Hg-199

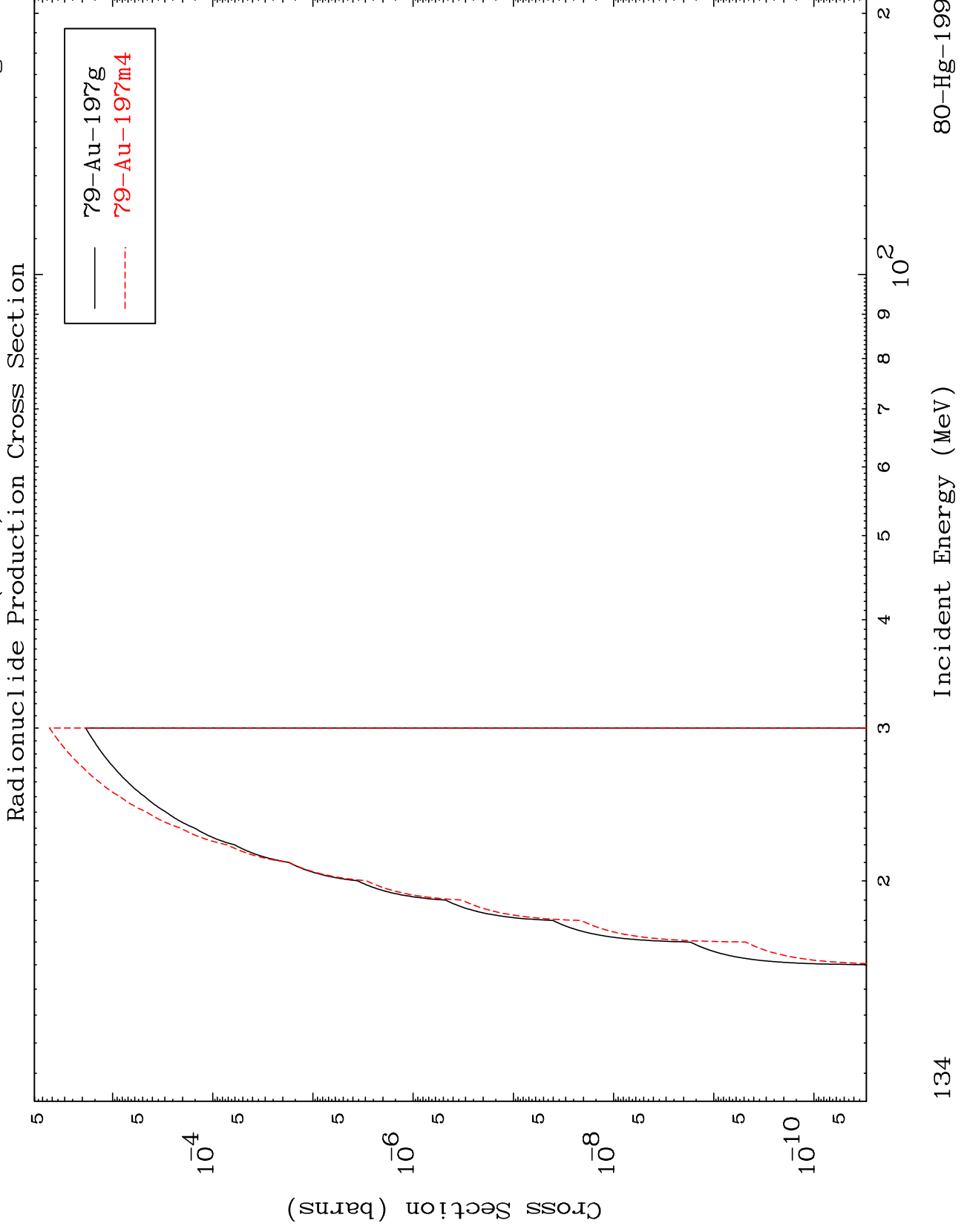
Radionuclide Production Cross Section



MAT 8034

(n,n') d

80-Hg-199



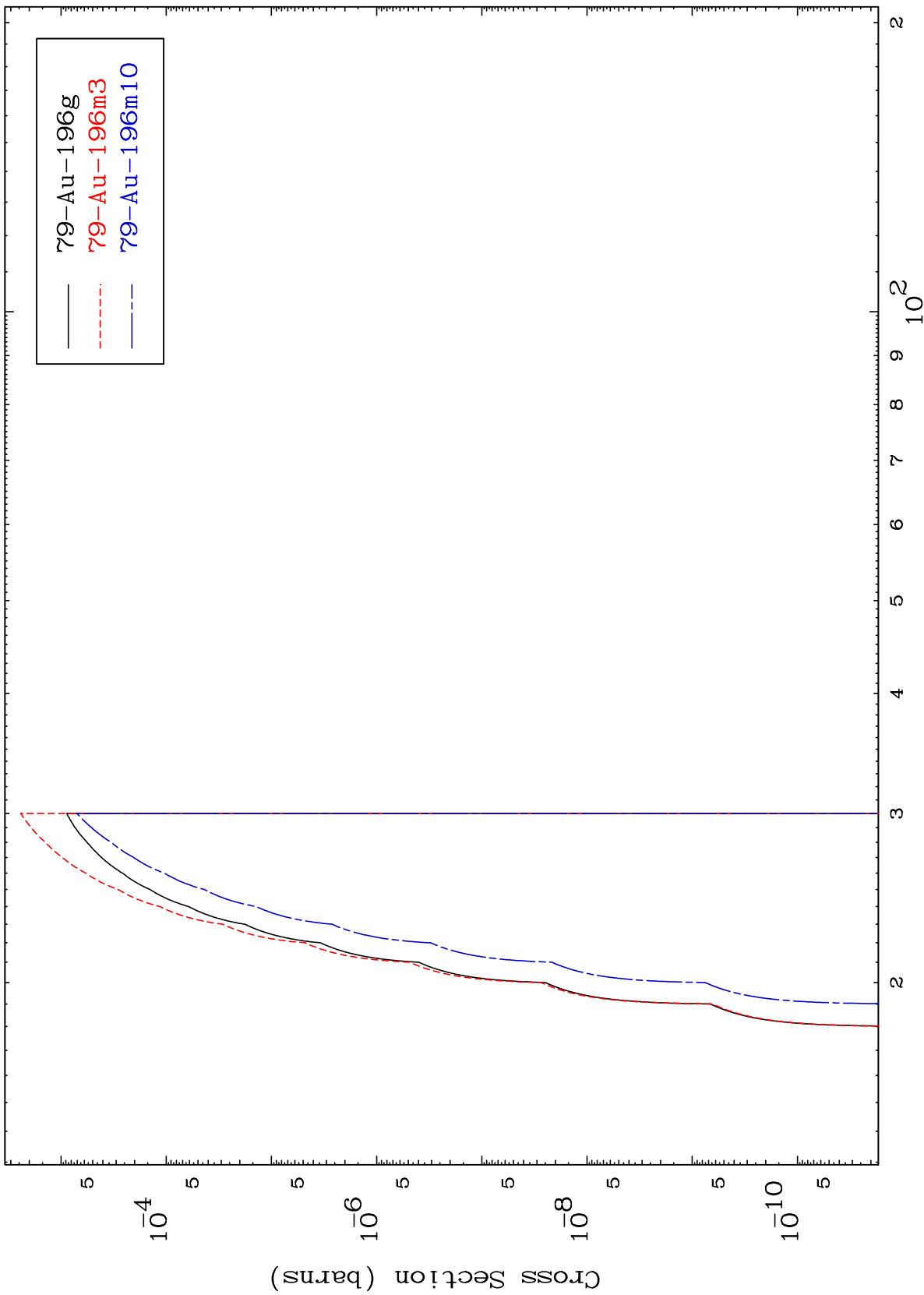
134

MAT 8034

(n,n') t

80-Hg-199

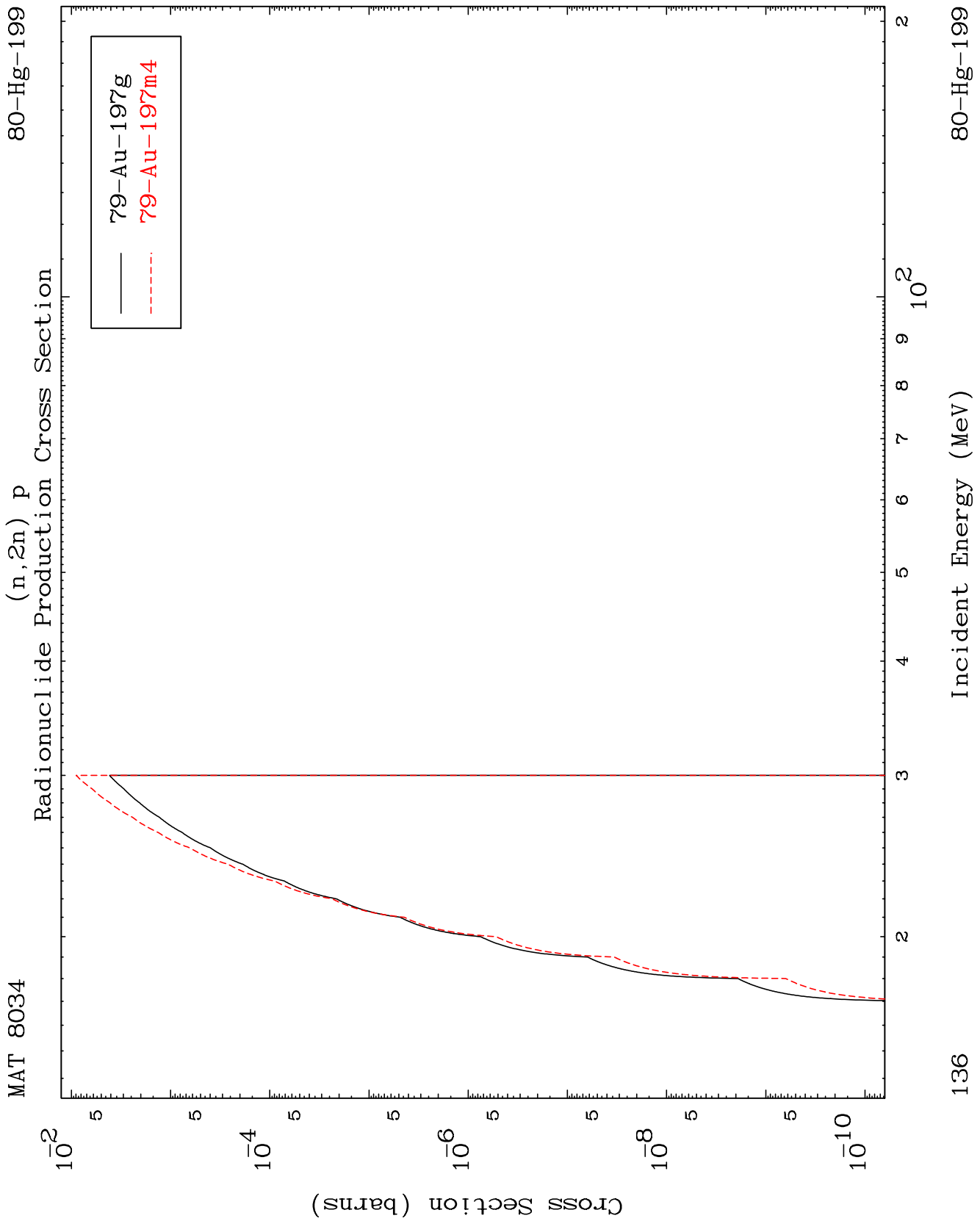
Radionuclide Production Cross Section



135

Incident Energy (MeV)

80-Hg-199

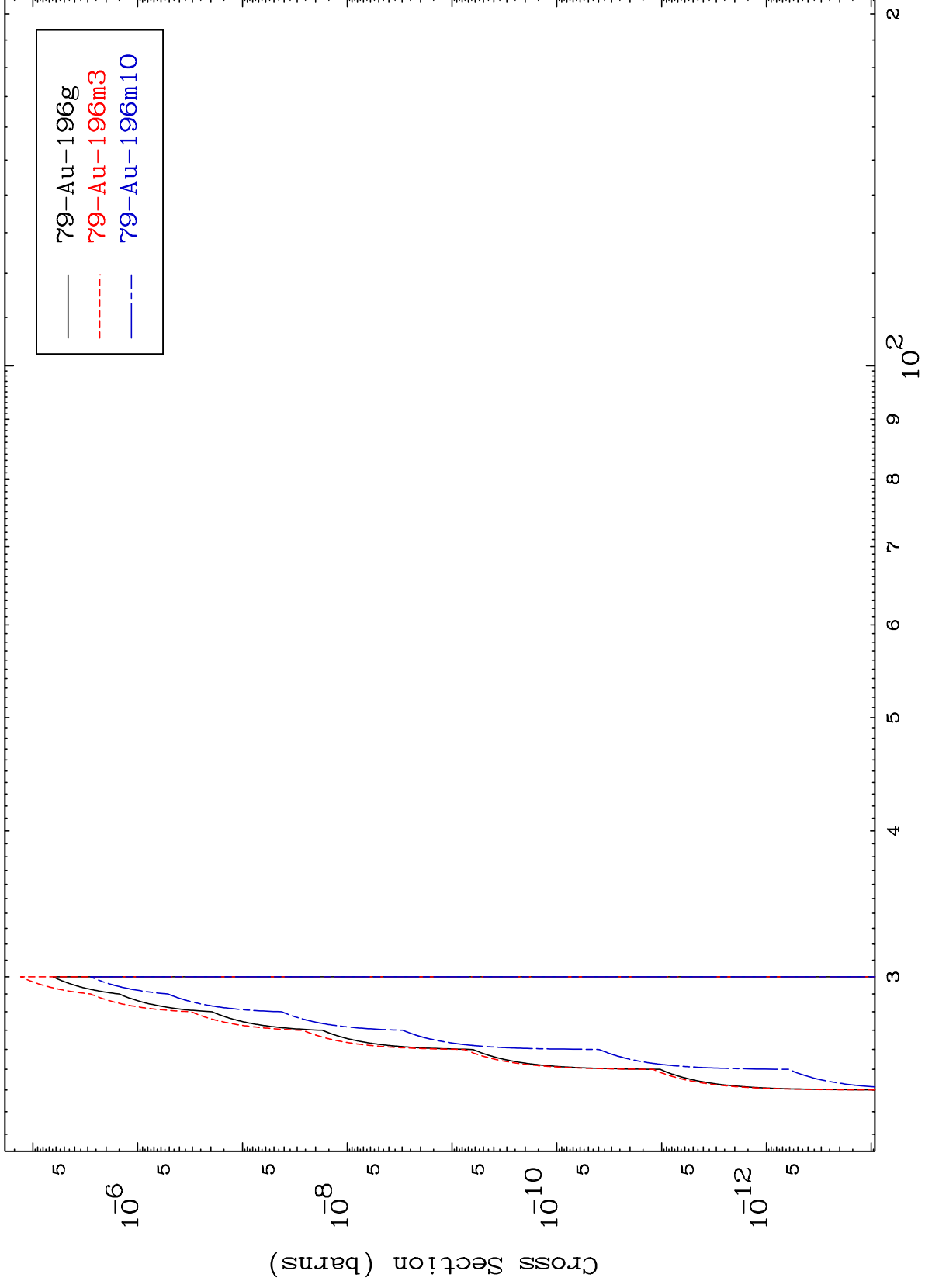


MAT 8034

(n,3n) p

80-Hg-199

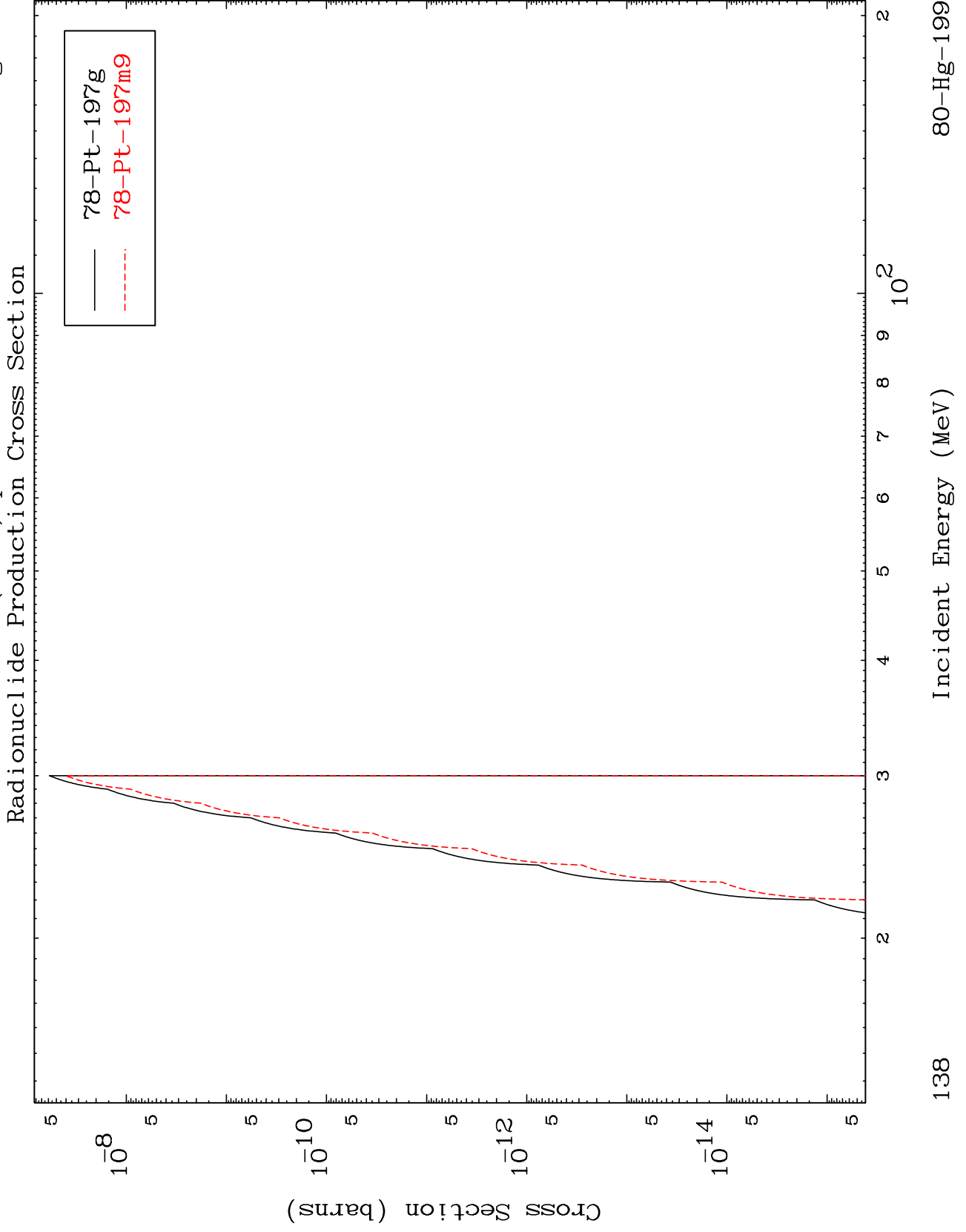
Radionuclide Production Cross Section



137

Incident Energy (MeV)

80-Hg-199

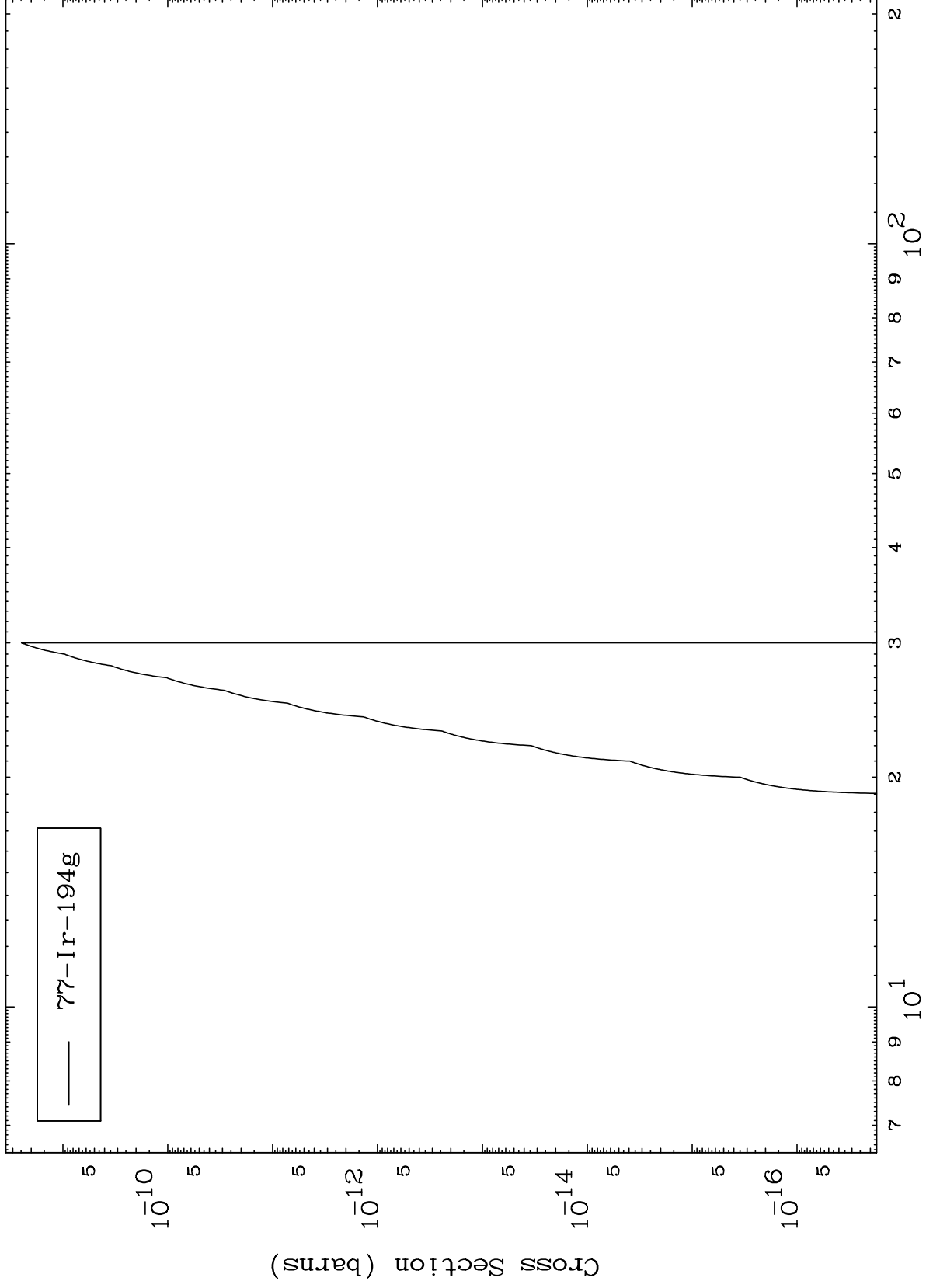


MAT 8034

(n,n') p α

80-Hg-199

Radionuclide Production Cross Section



139

Incident Energy (MeV)

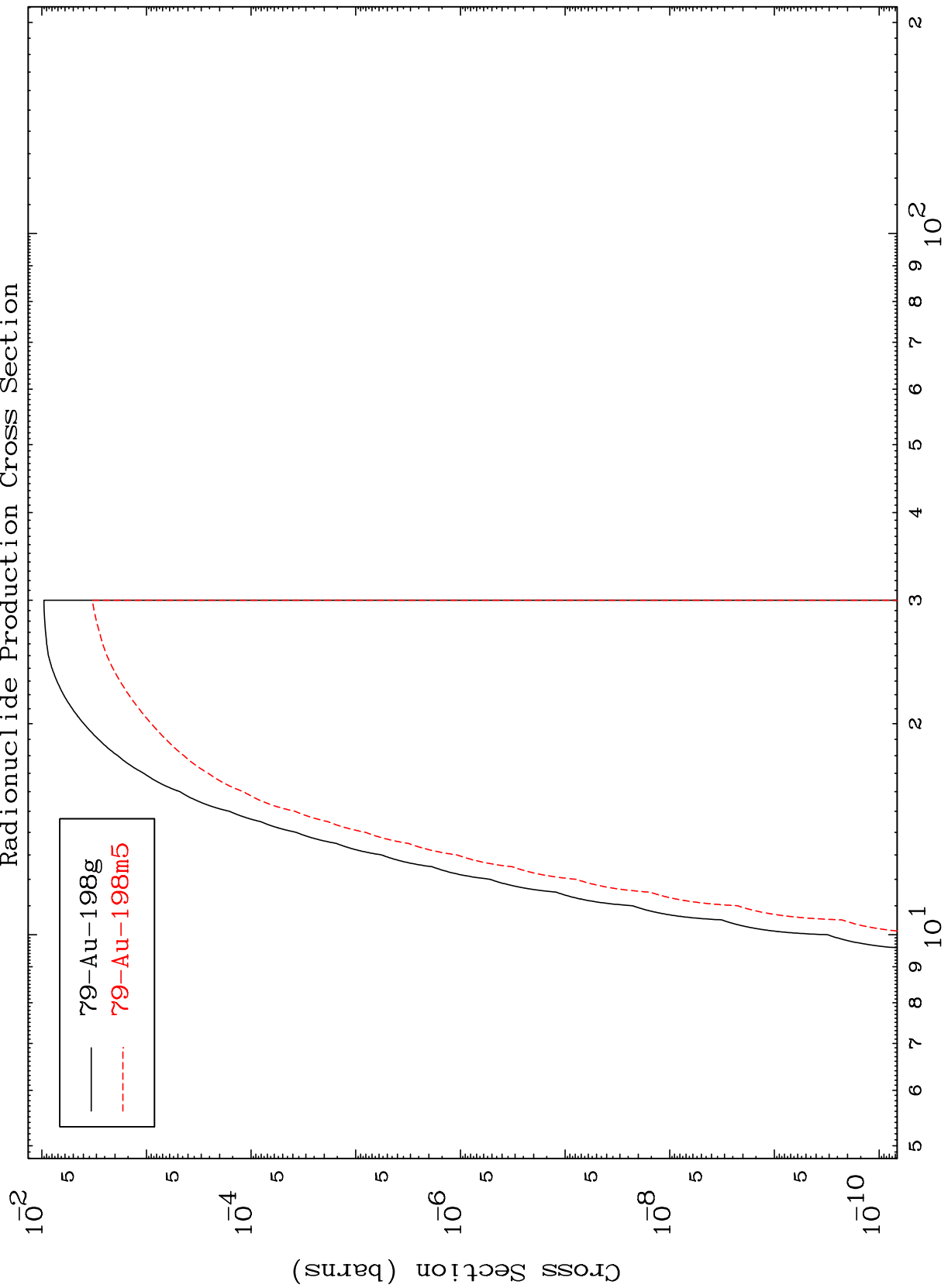
80-Hg-199

MAT 8034

(n,d)

80-Hg-199

Radionuclide Production Cross Section



140

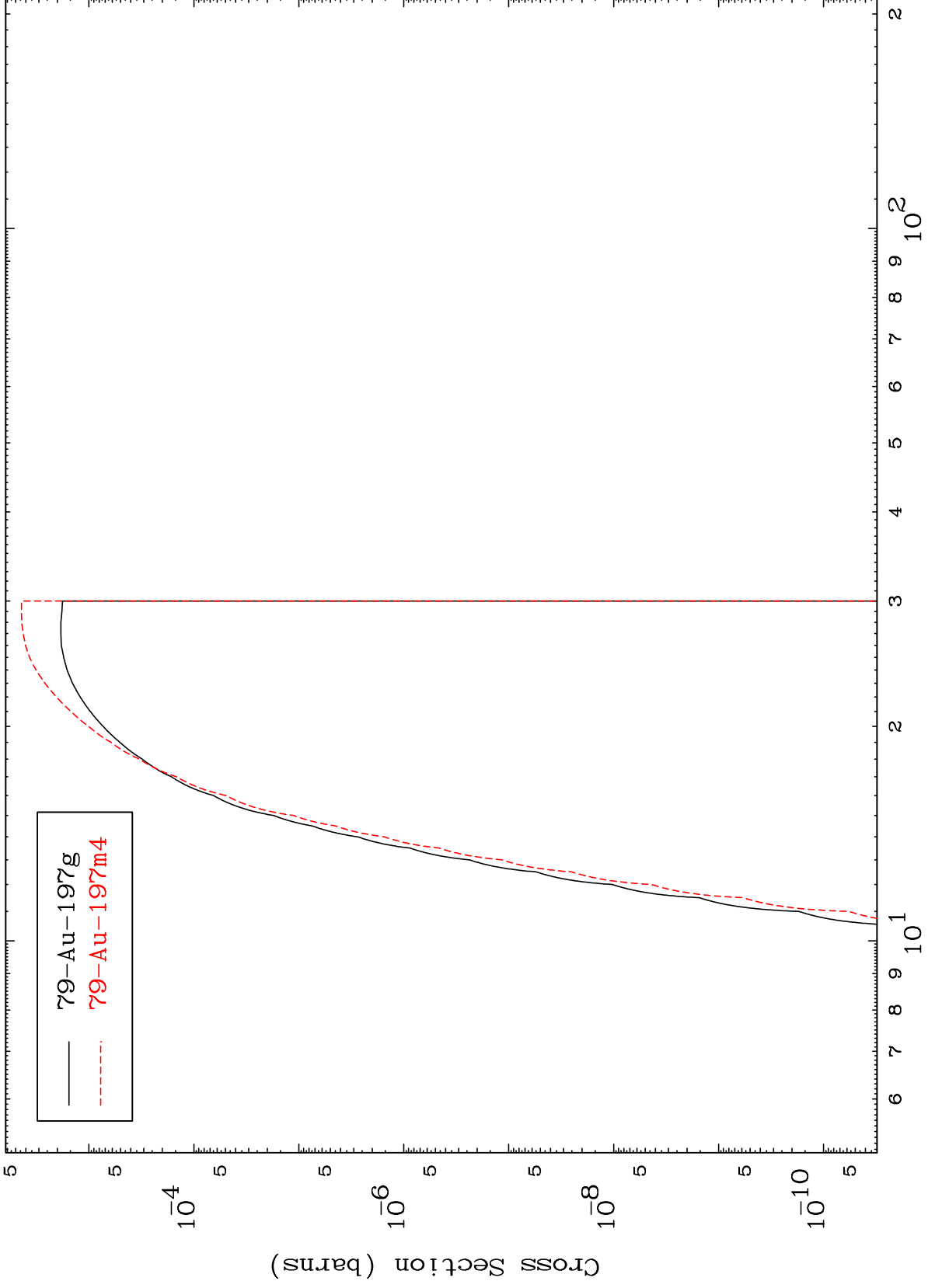
Incident Energy (MeV)

80-Hg-199

MAT 8034

80-Hg-199

(n, t)
Radionuclide Production Cross Section



141

Incident Energy (MeV)

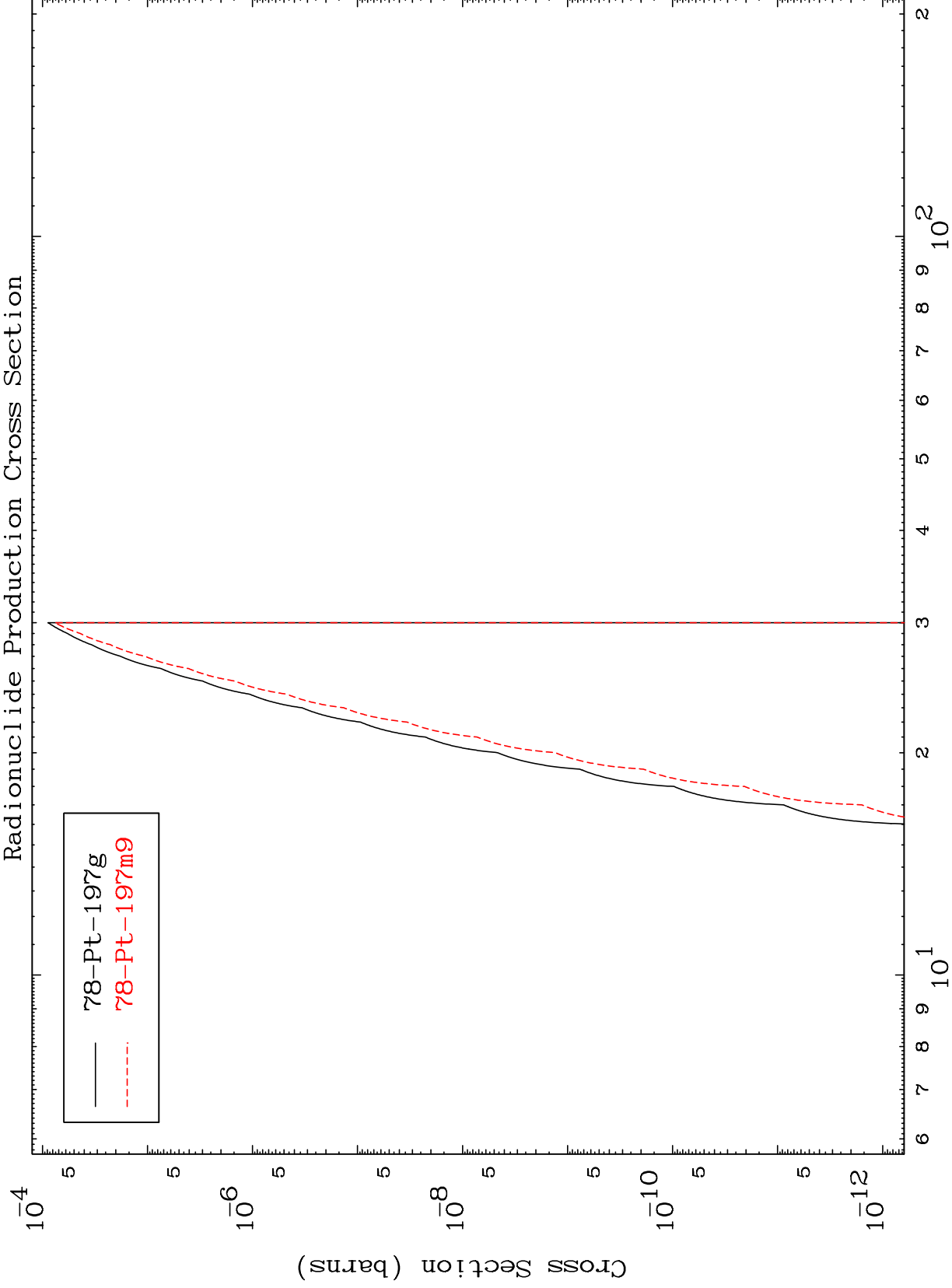
80-Hg-199

MAT 8034

(n,He-3)

80-Hg-199

Radionuclide Production Cross Section



142

Incident Energy (MeV)

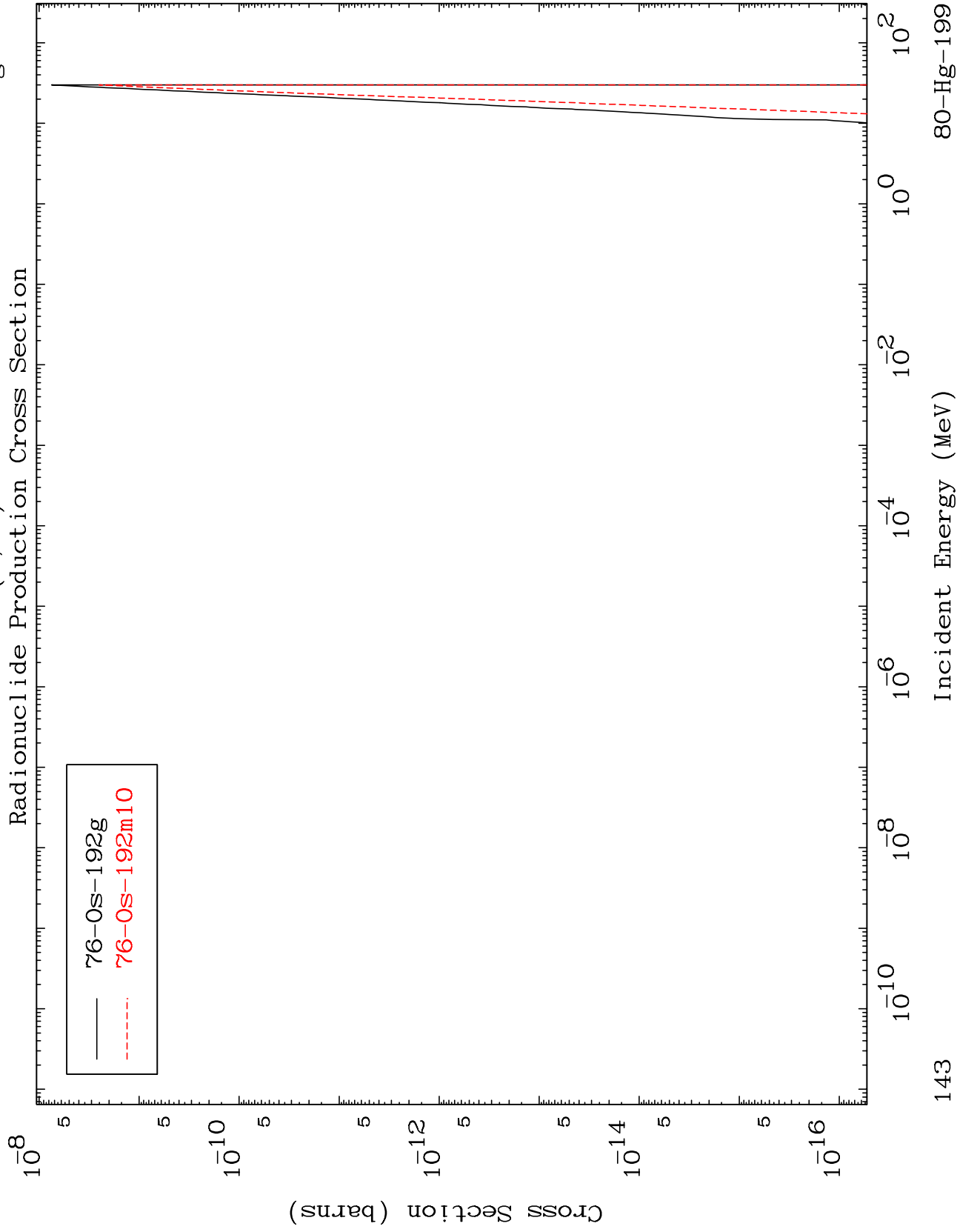
80-Hg-199

MAT 8034

(n,2α)

80-Hg-199

Radionuclide Production Cross Section

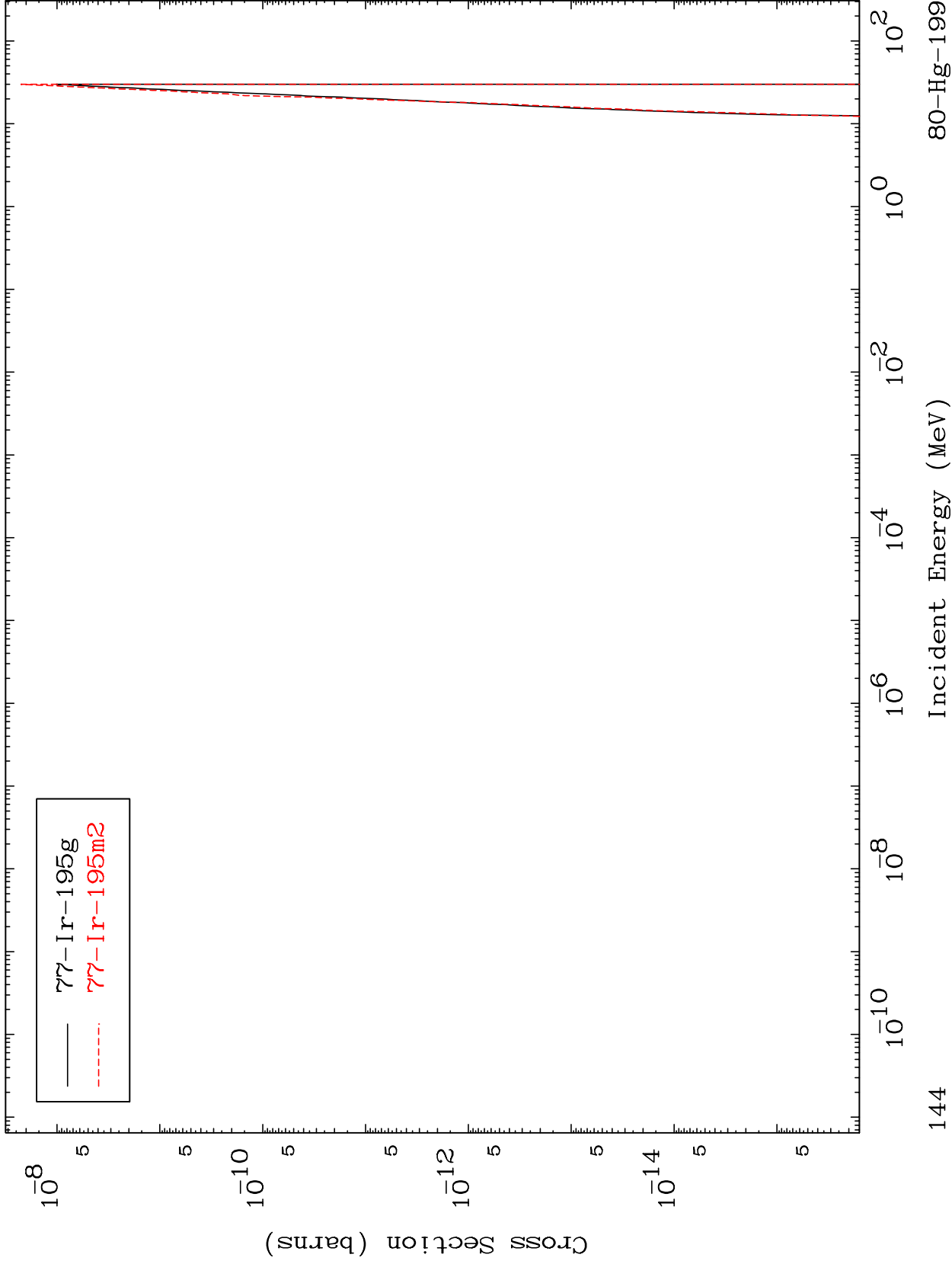


MAT 8034

(n,p) α

80-Hg-199

Radionuclide Production Cross Section

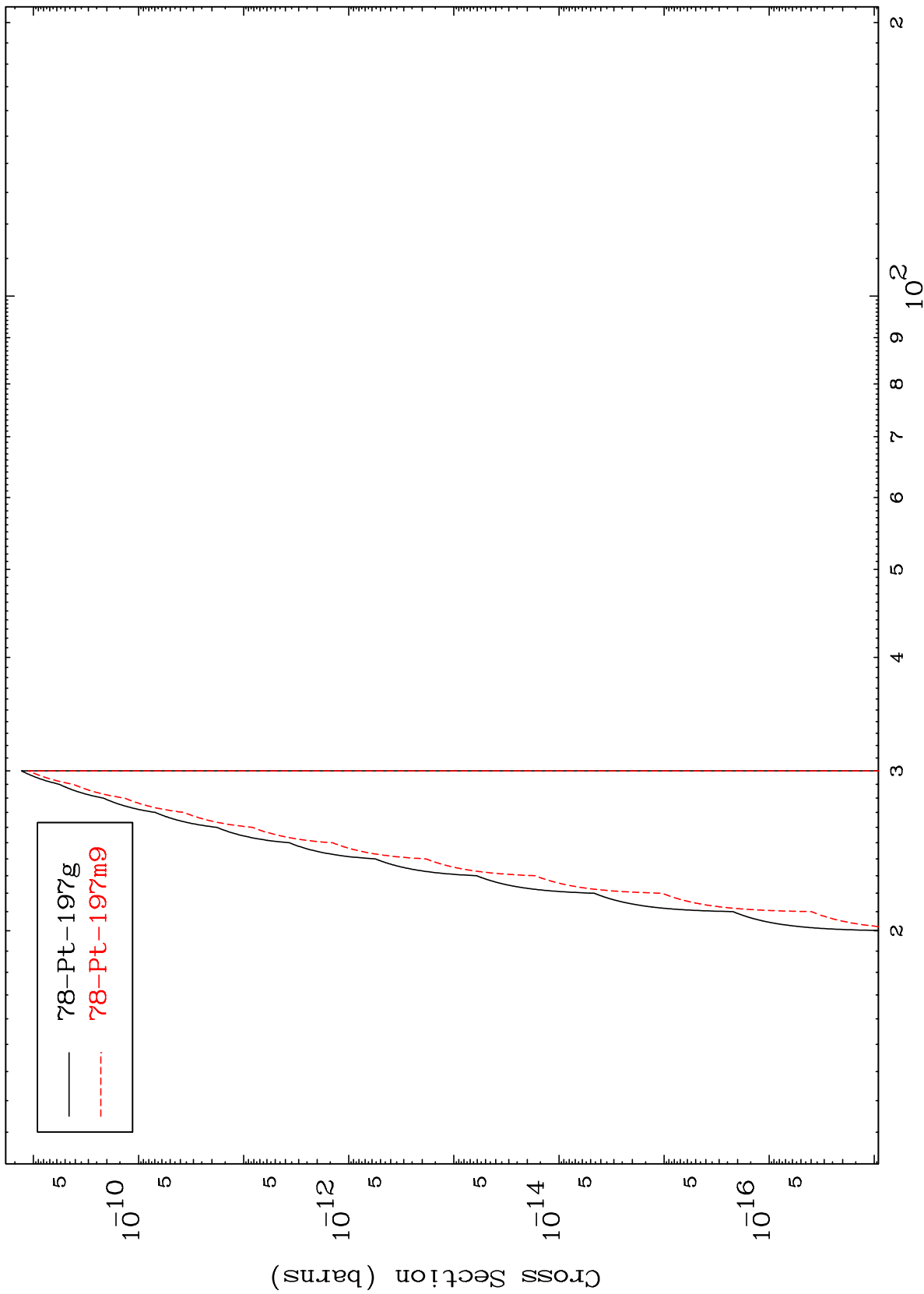


MAT 8034

(n,p) d

80-Hg-199

Radionuclide Production Cross Section



145

Incident Energy (MeV)

80-Hg-199