

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

Web:redcullen1.net/HOMEPAGE.NEW

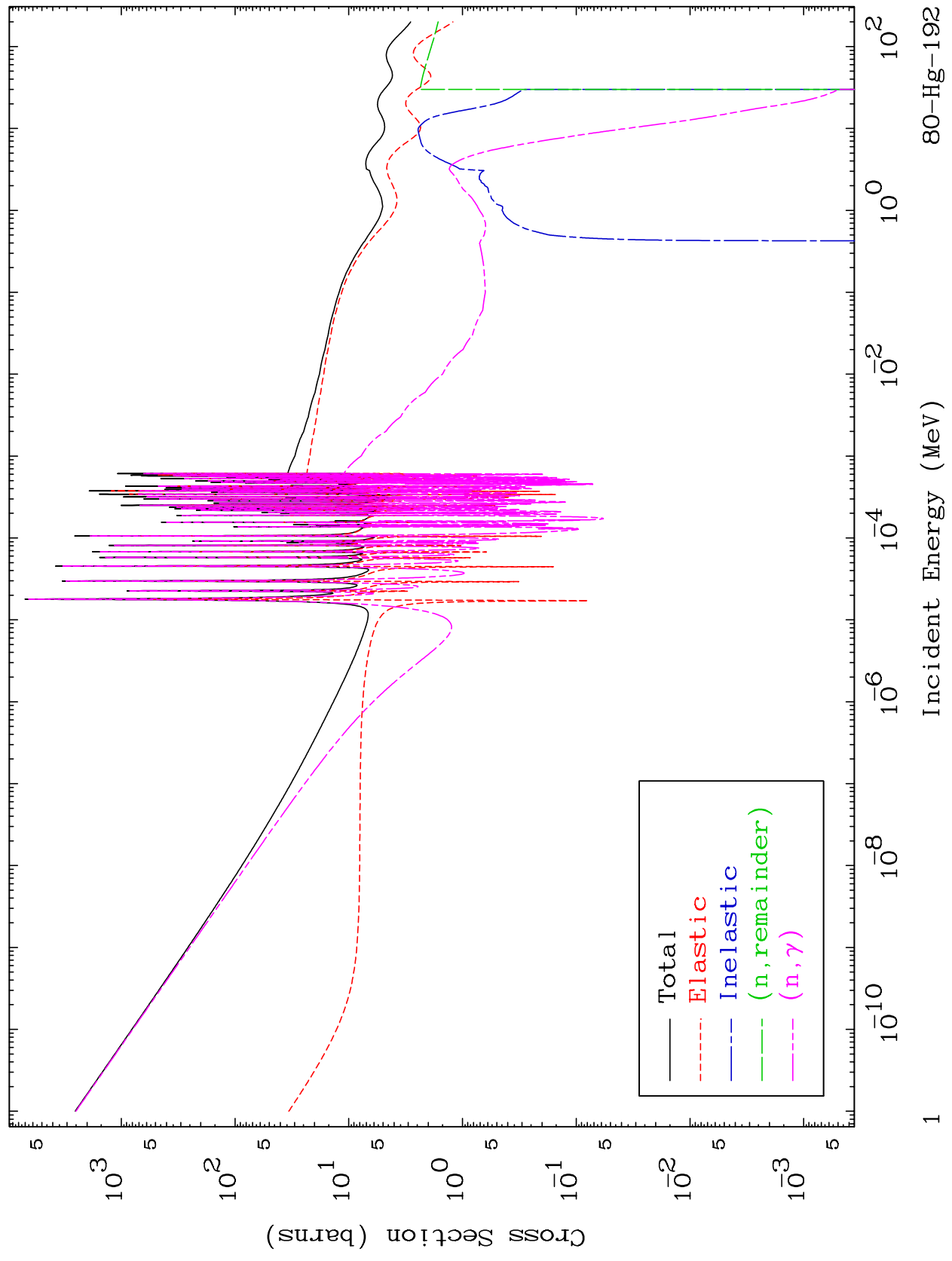
Press Mouse Button to Start

MAT 8013

Major

293 Kelvin Cross Sections

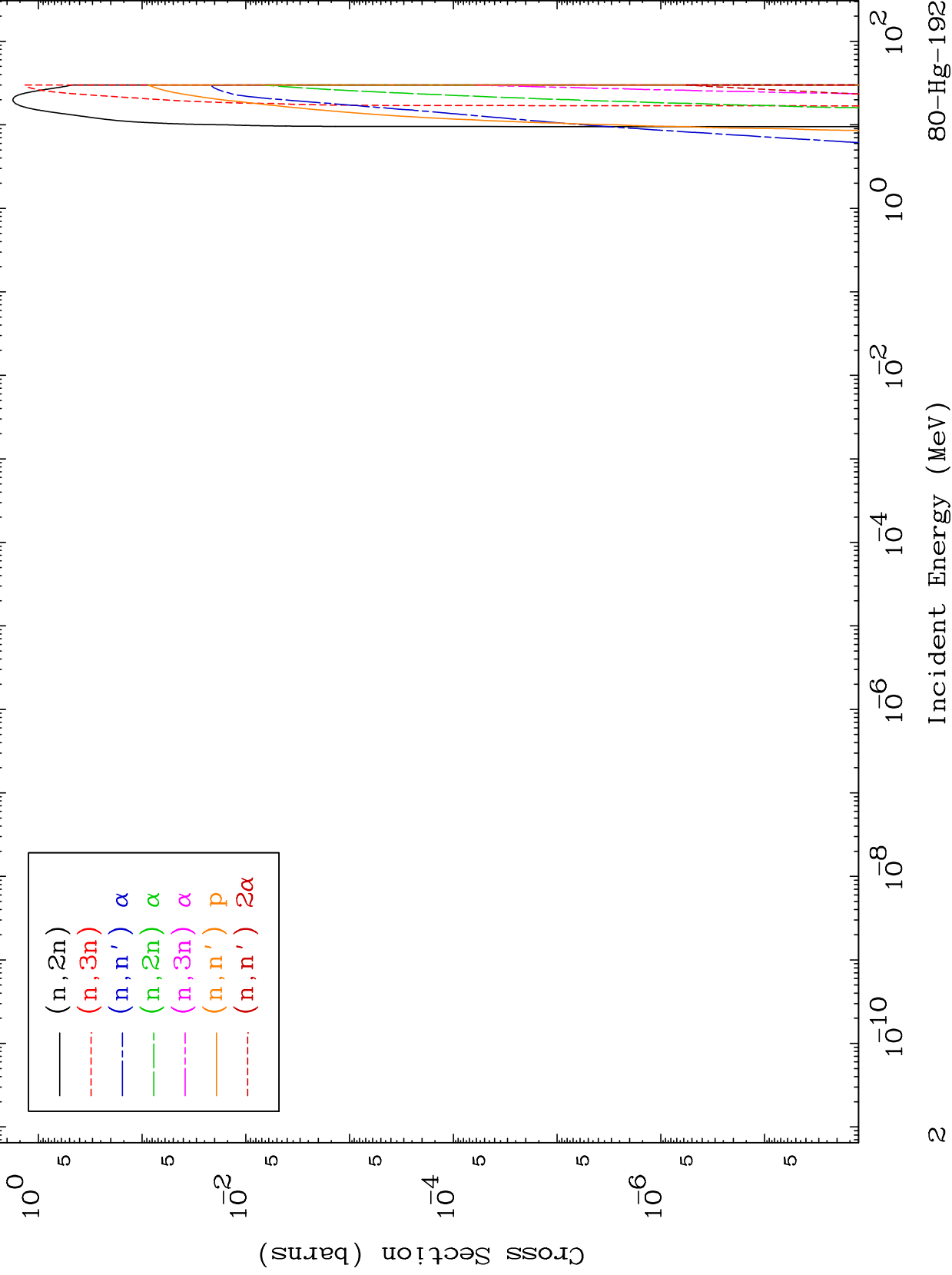
80-Hg-192



MAT 8013

Neutron Production  
293 Kelvin Cross Sections

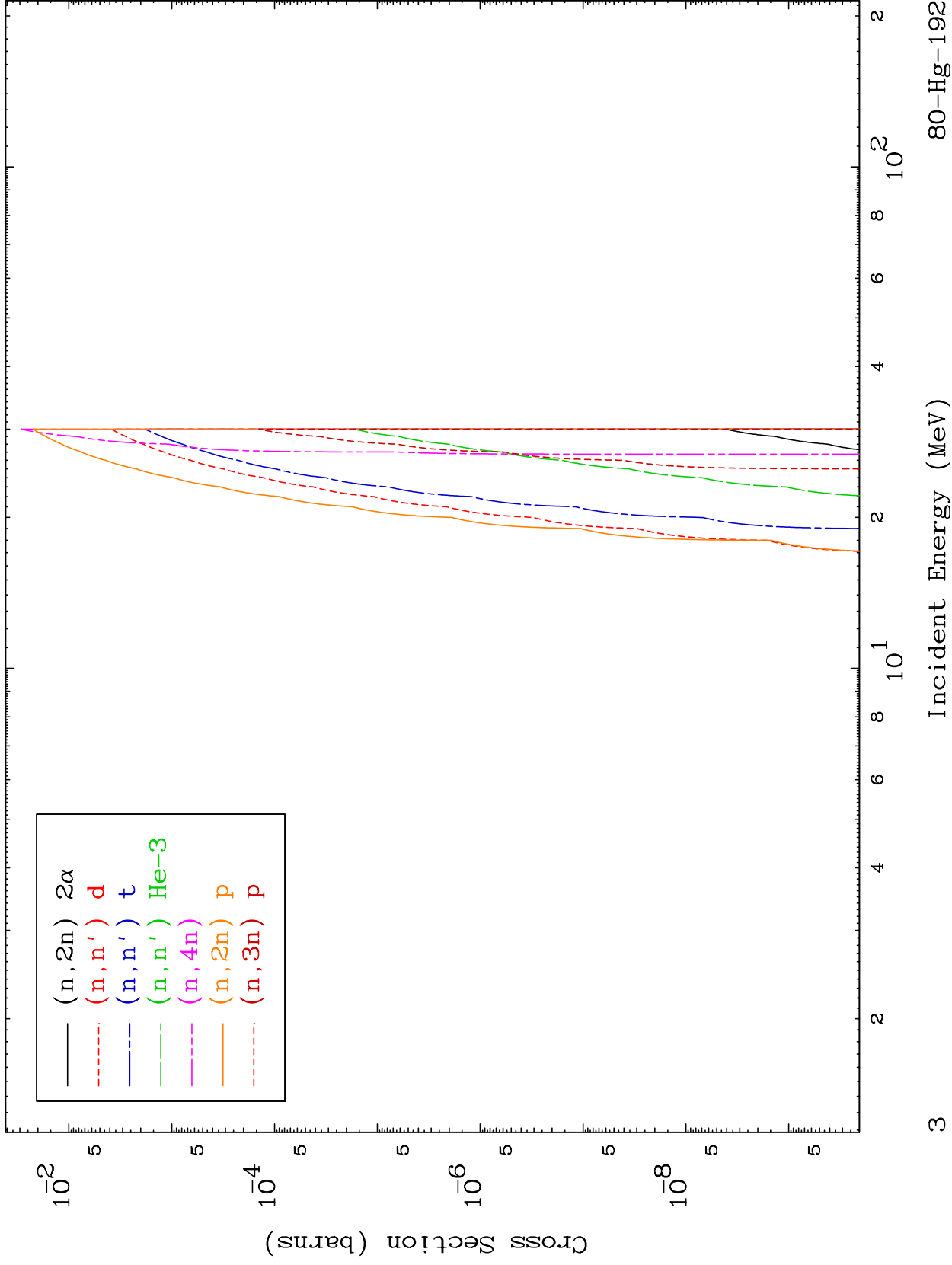
80-Hg-192



MAT 8013

Neutron Production  
293 Kelvin Cross Sections

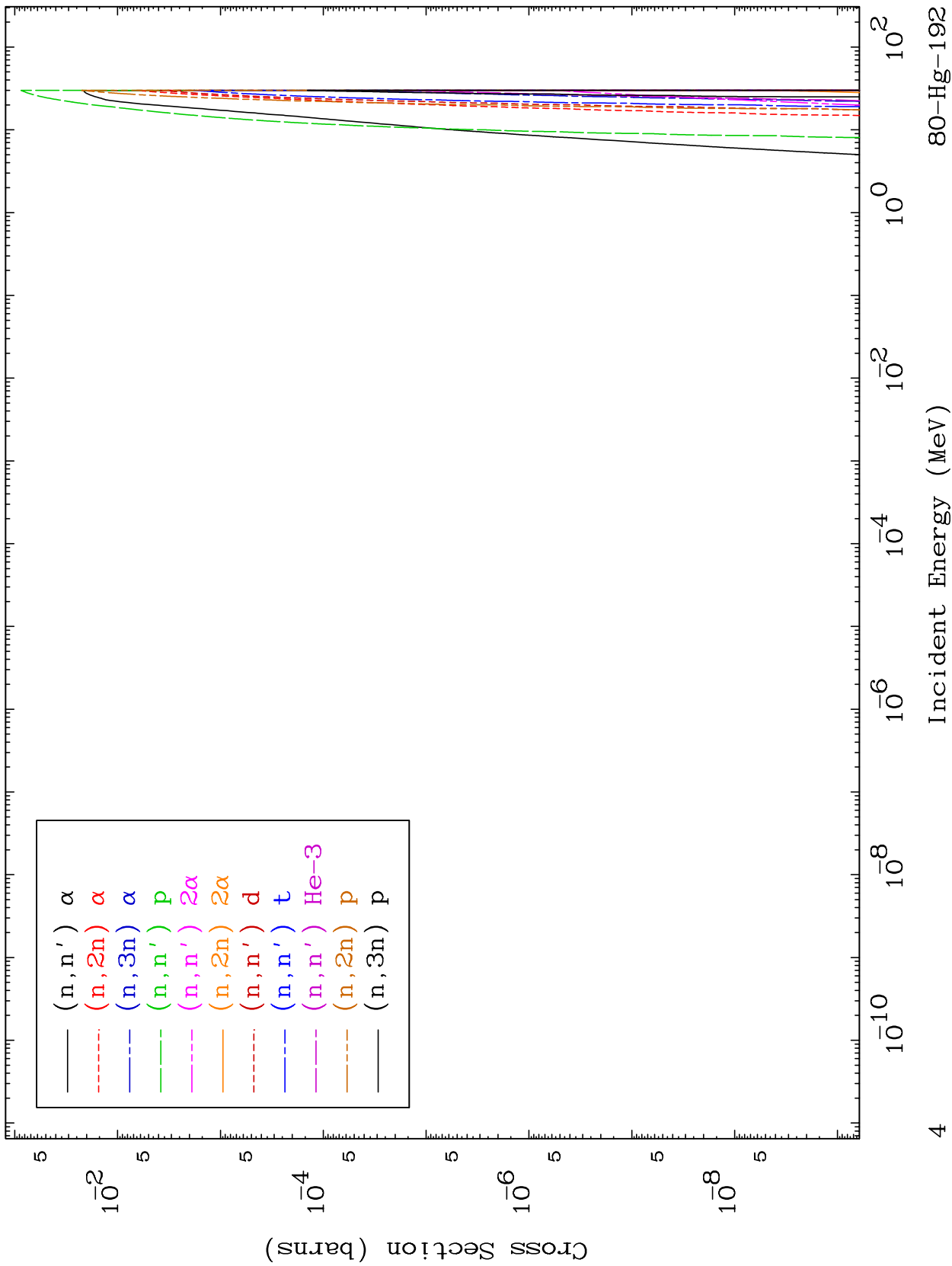
80-Hg-192



MAT 8013

Charged Particle  
293 Kelvin Cross Sections

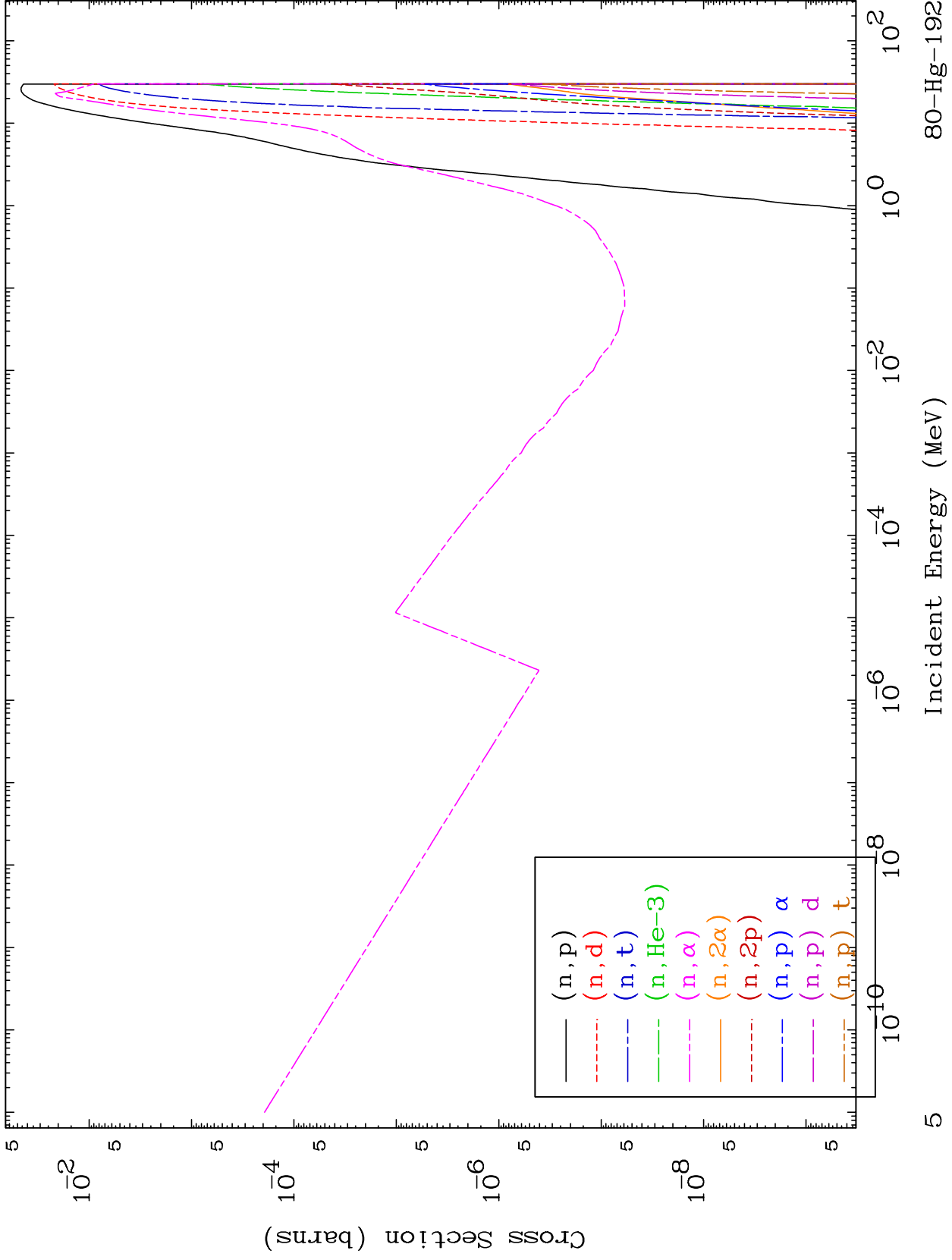
80-Hg-192

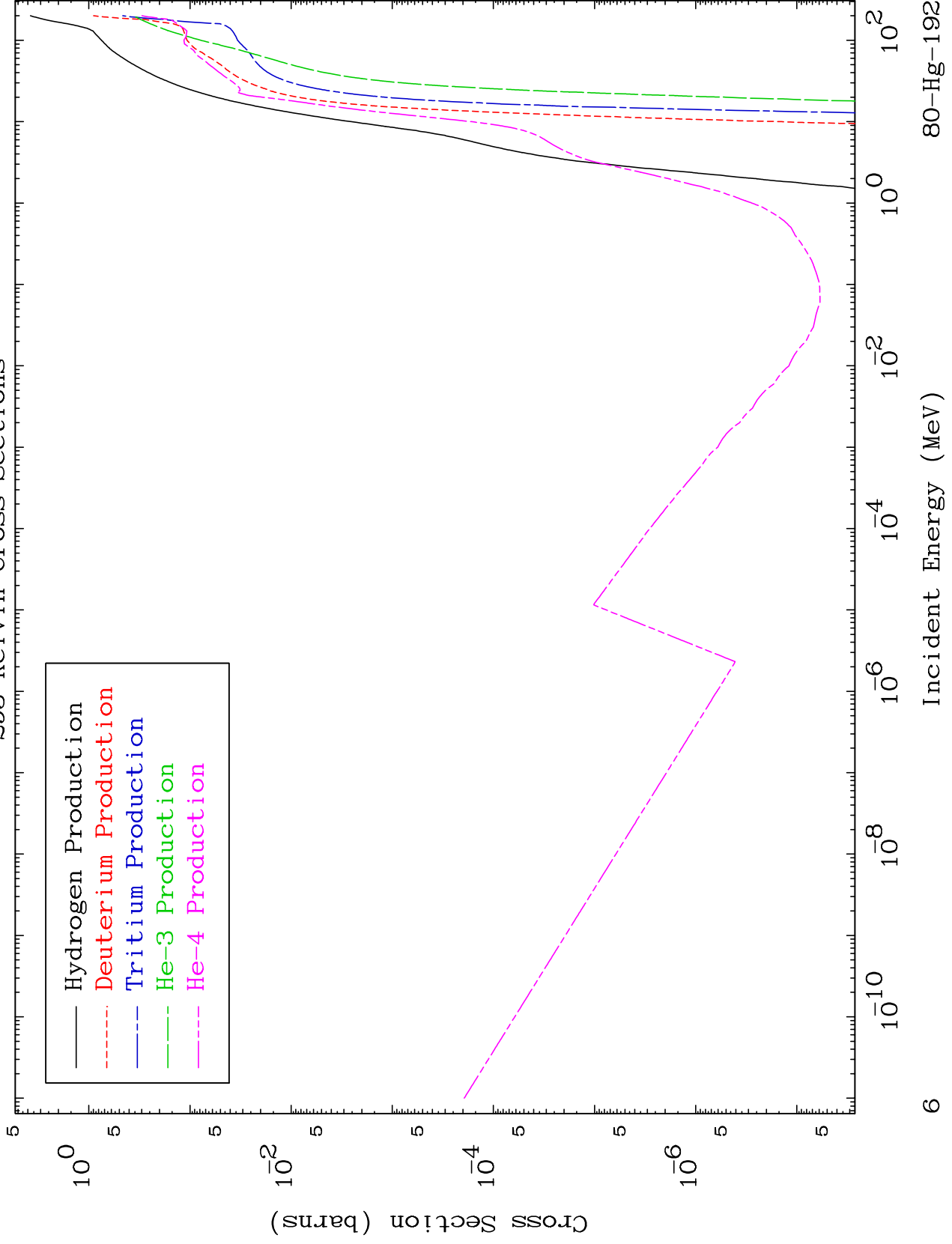


MAT 8013

Charged Particle  
293 Kelvin Cross Sections

80-Hg-192



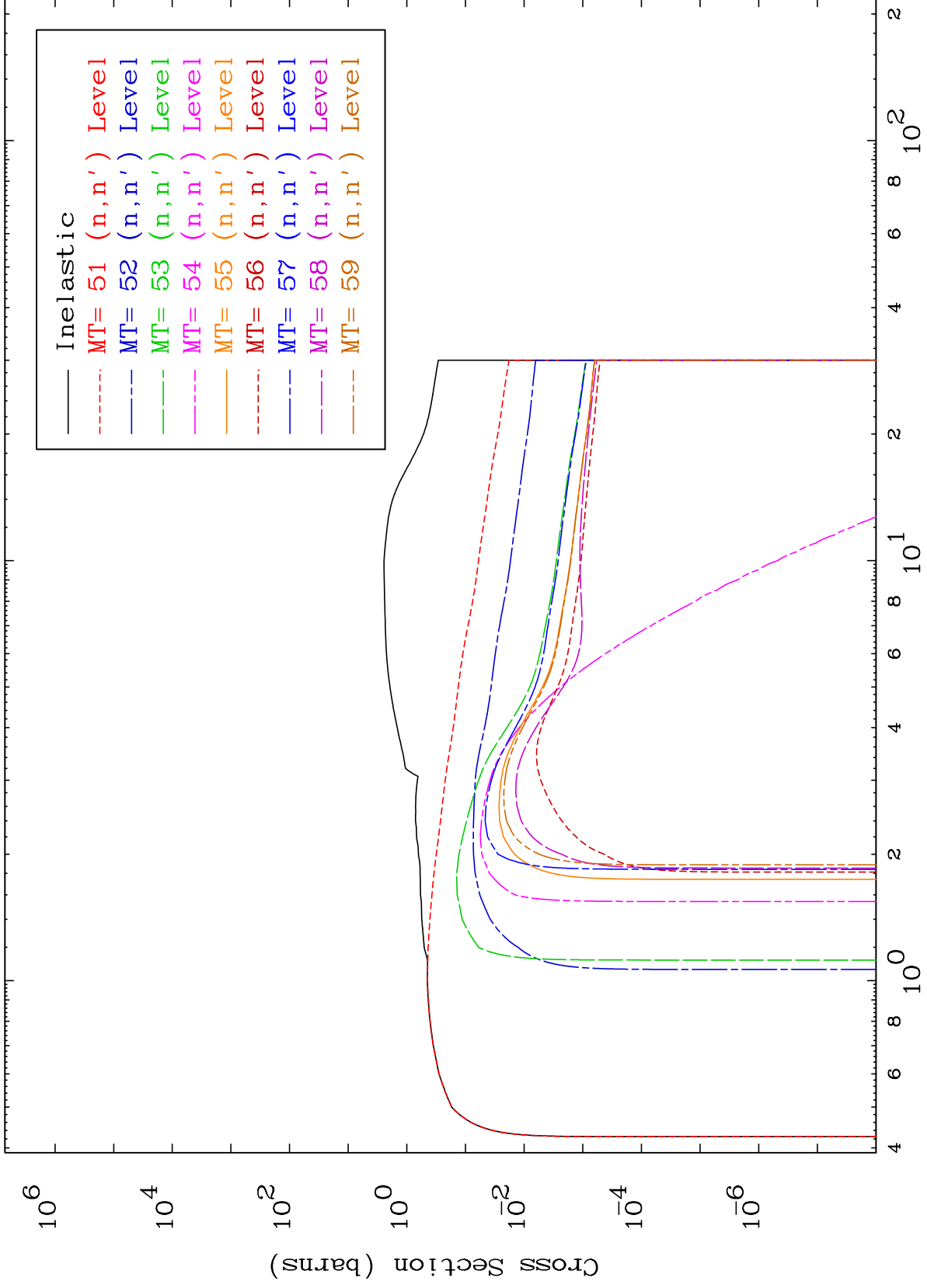


MAT 8013

(n,n') Level

80-Hg-192

293 Kelvin Cross Sections



7

Incident Energy (MeV)

80-Hg-192

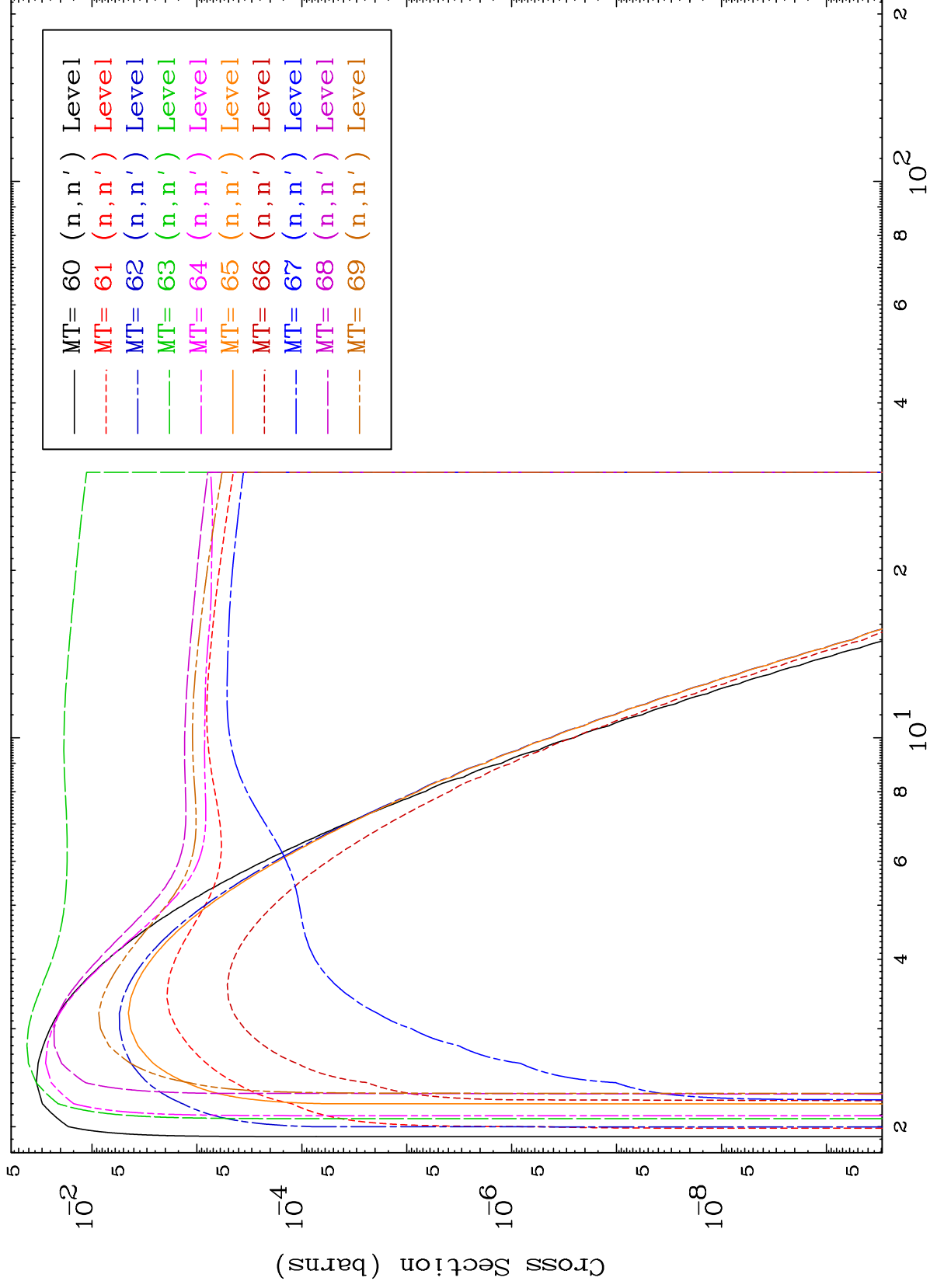


MAT 8013

(n,n') Level

80-Hg-192

293 Kelvin Cross Sections

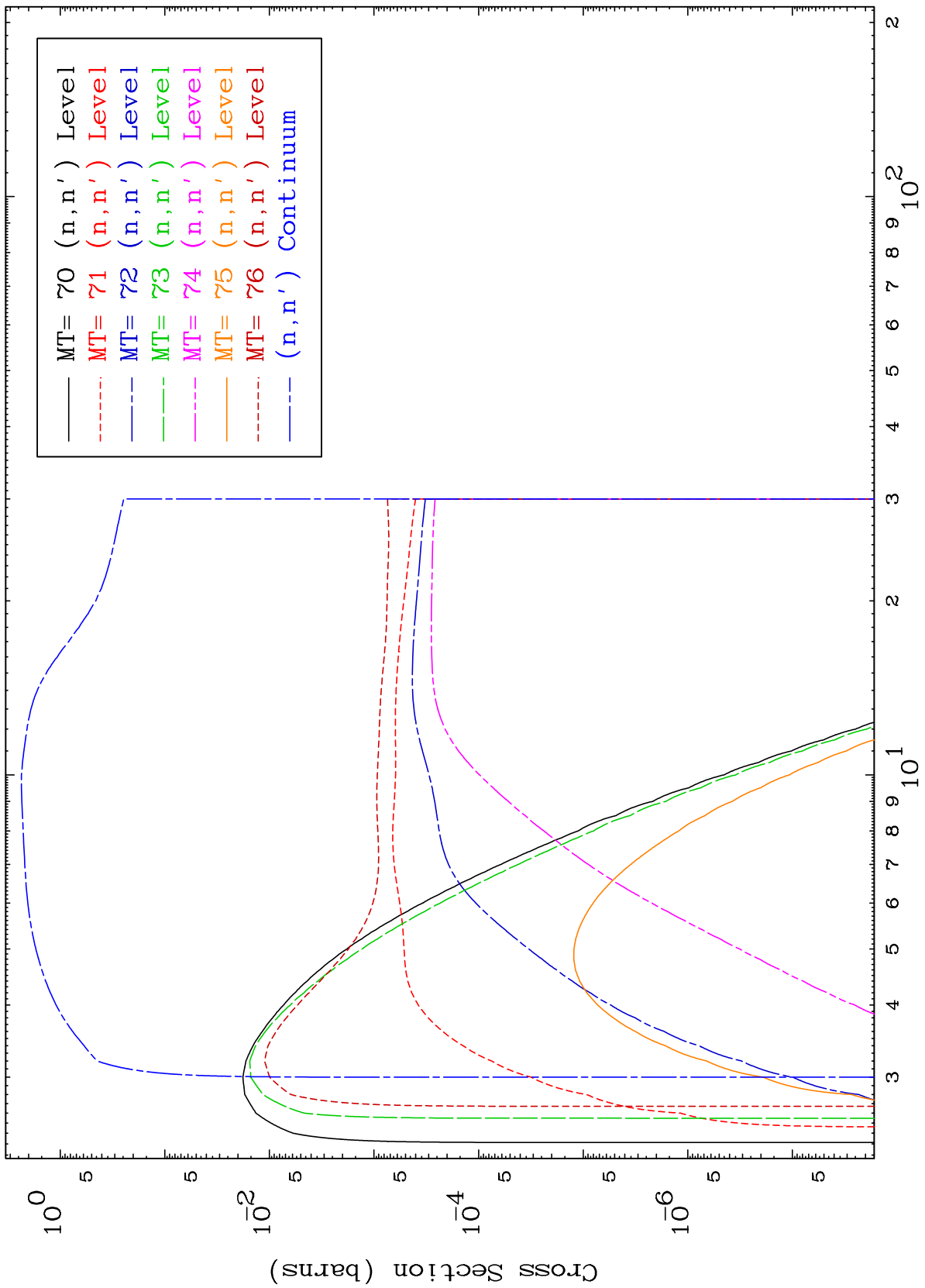


8

Incident Energy (MeV)

80-Hg-192

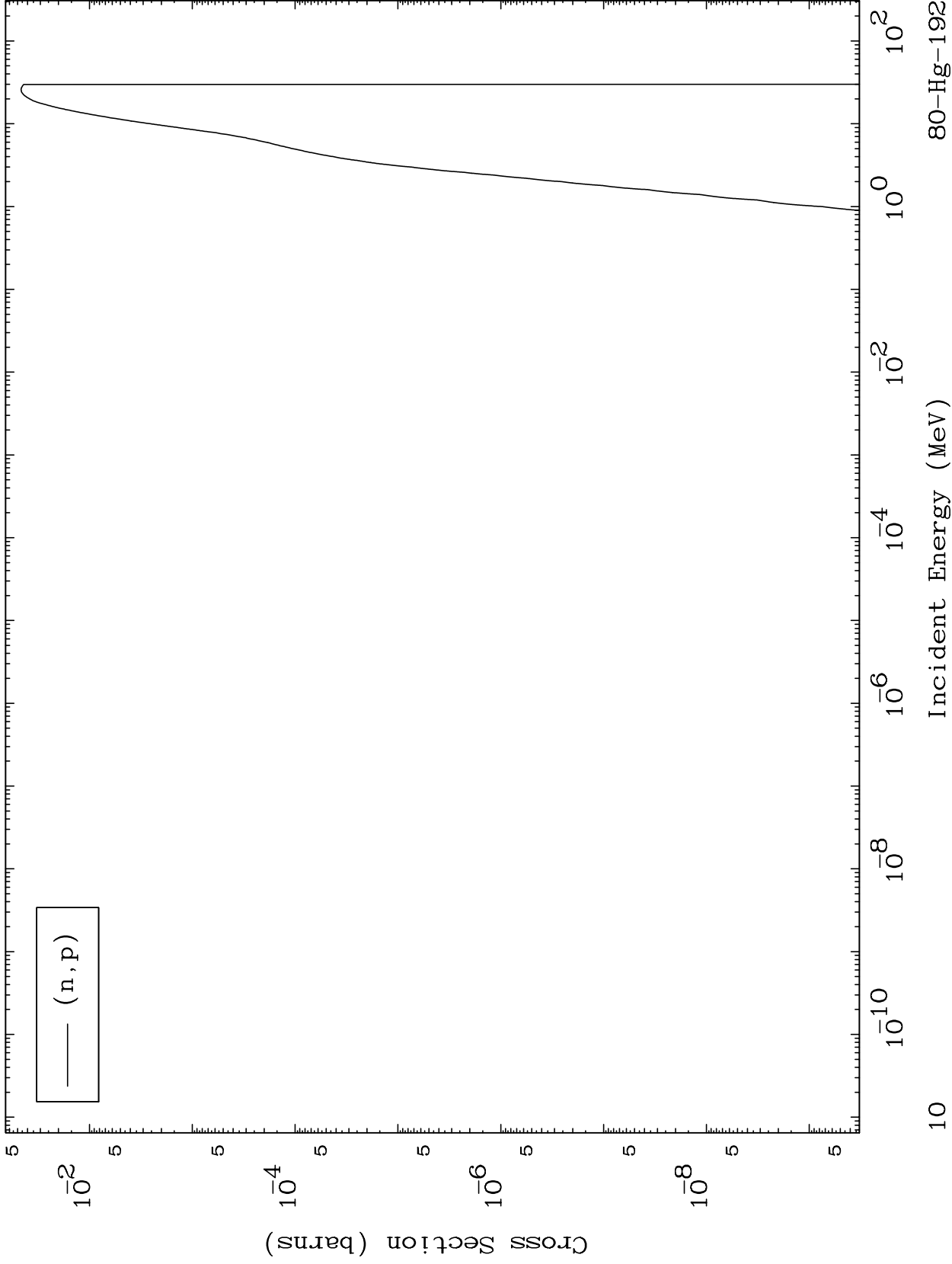
293 Kelvin Cross Sections



MAT 8013

(n,p) Levels  
293 Kelvin Cross Sections

80-Hg-192



10

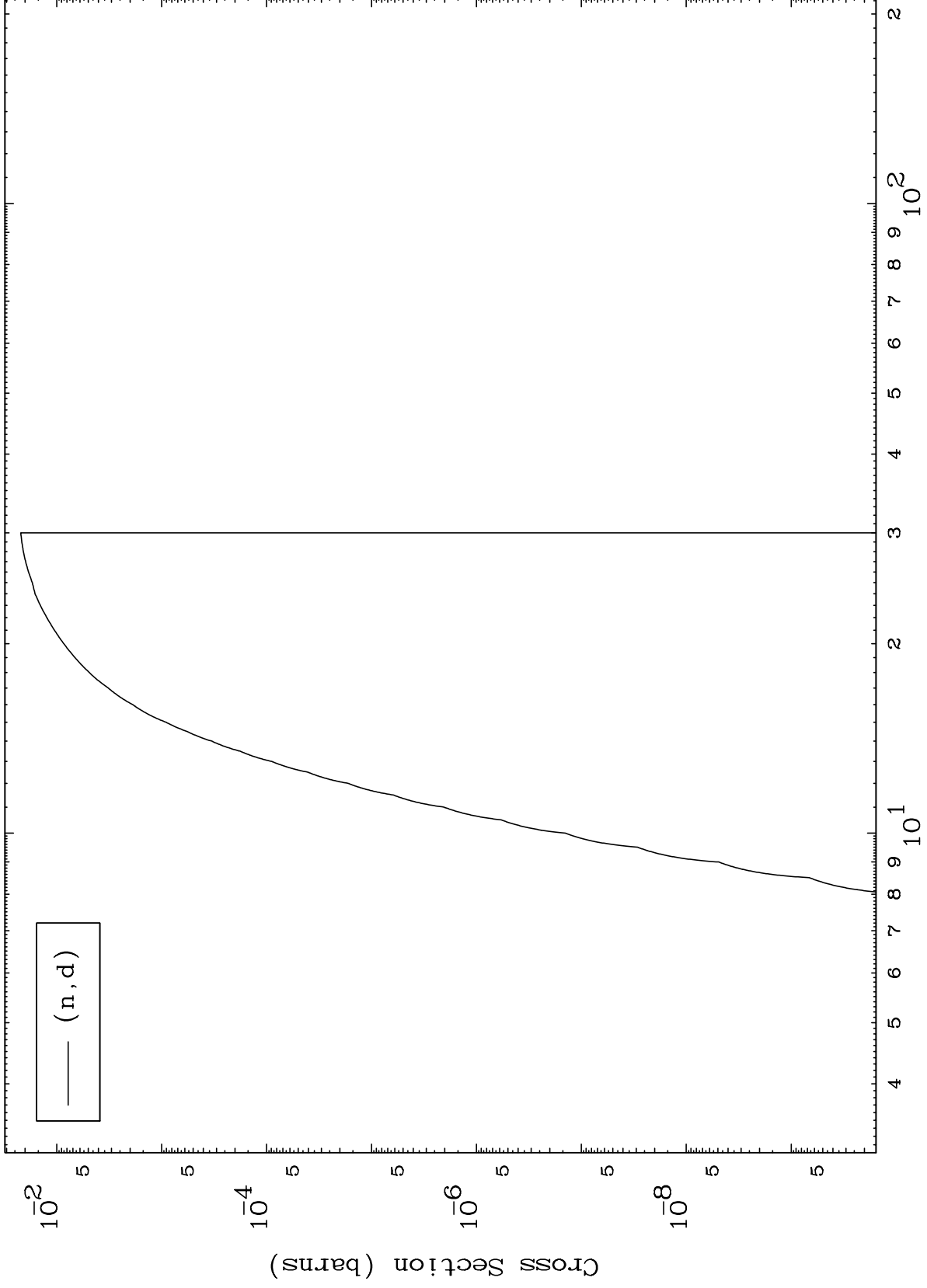
Incident Energy (MeV)

80-Hg-192

MAT 8013

(n,d) Levels  
293 Kelvin Cross Sections

80-Hg-192



11

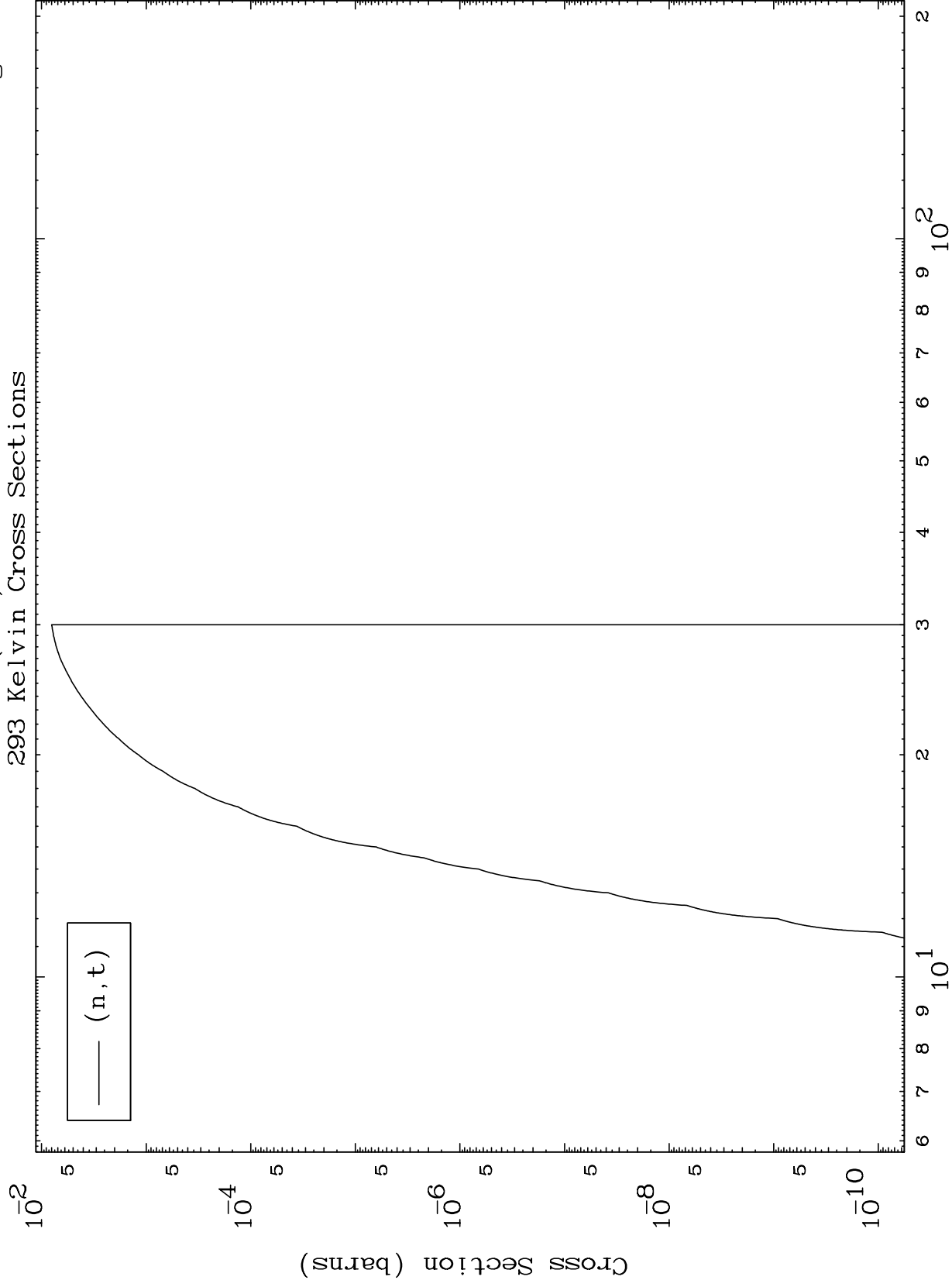
Incident Energy (MeV)

80-Hg-192

MAT 8013

(n,t) Levels  
293 Kelvin Cross Sections

80-Hg-192



12

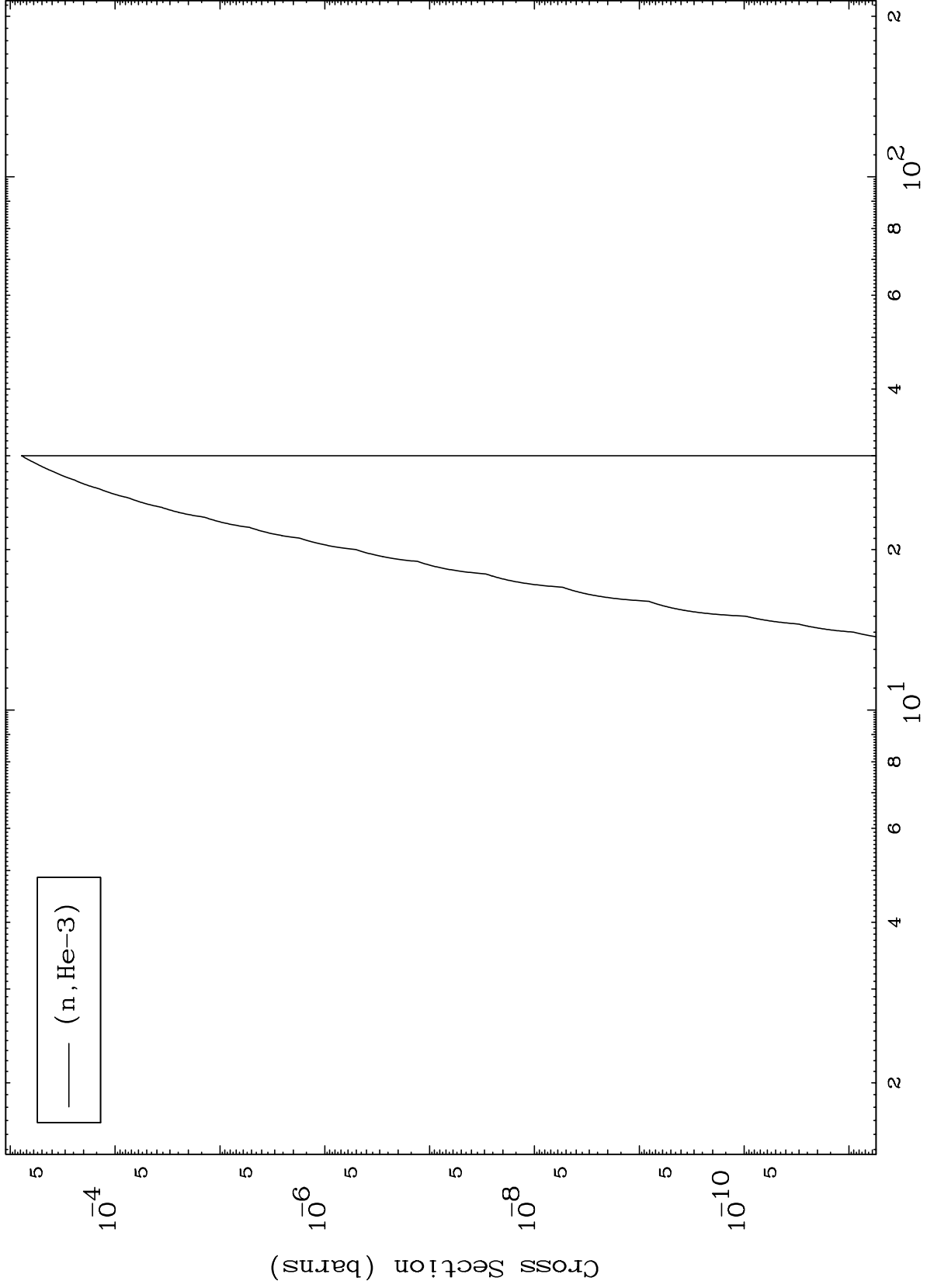
Incident Energy (MeV)

80-Hg-192

MAT 8013

(n,He3) Levels  
293 Kelvin Cross Sections

80-Hg-192



13

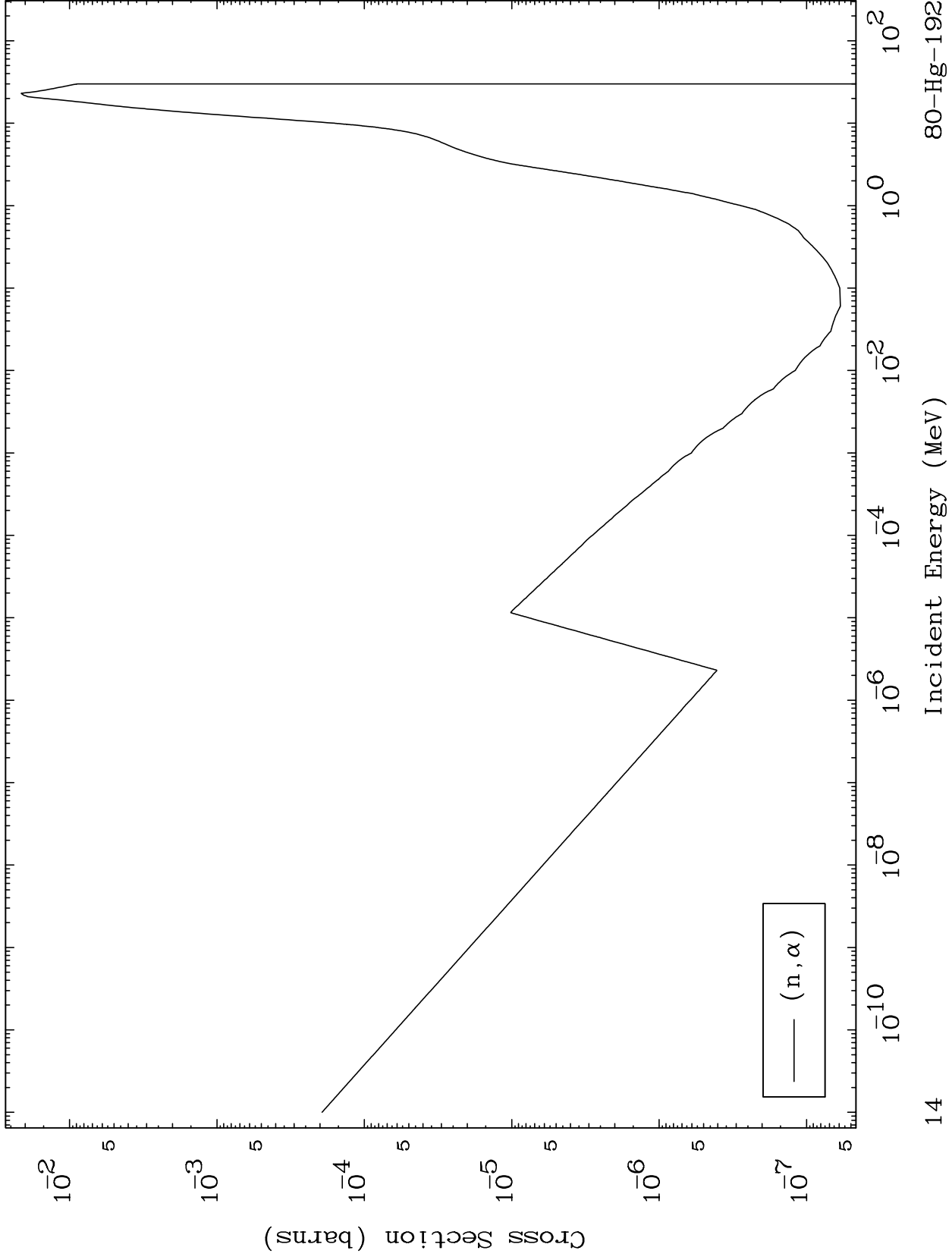
Incident Energy (MeV)

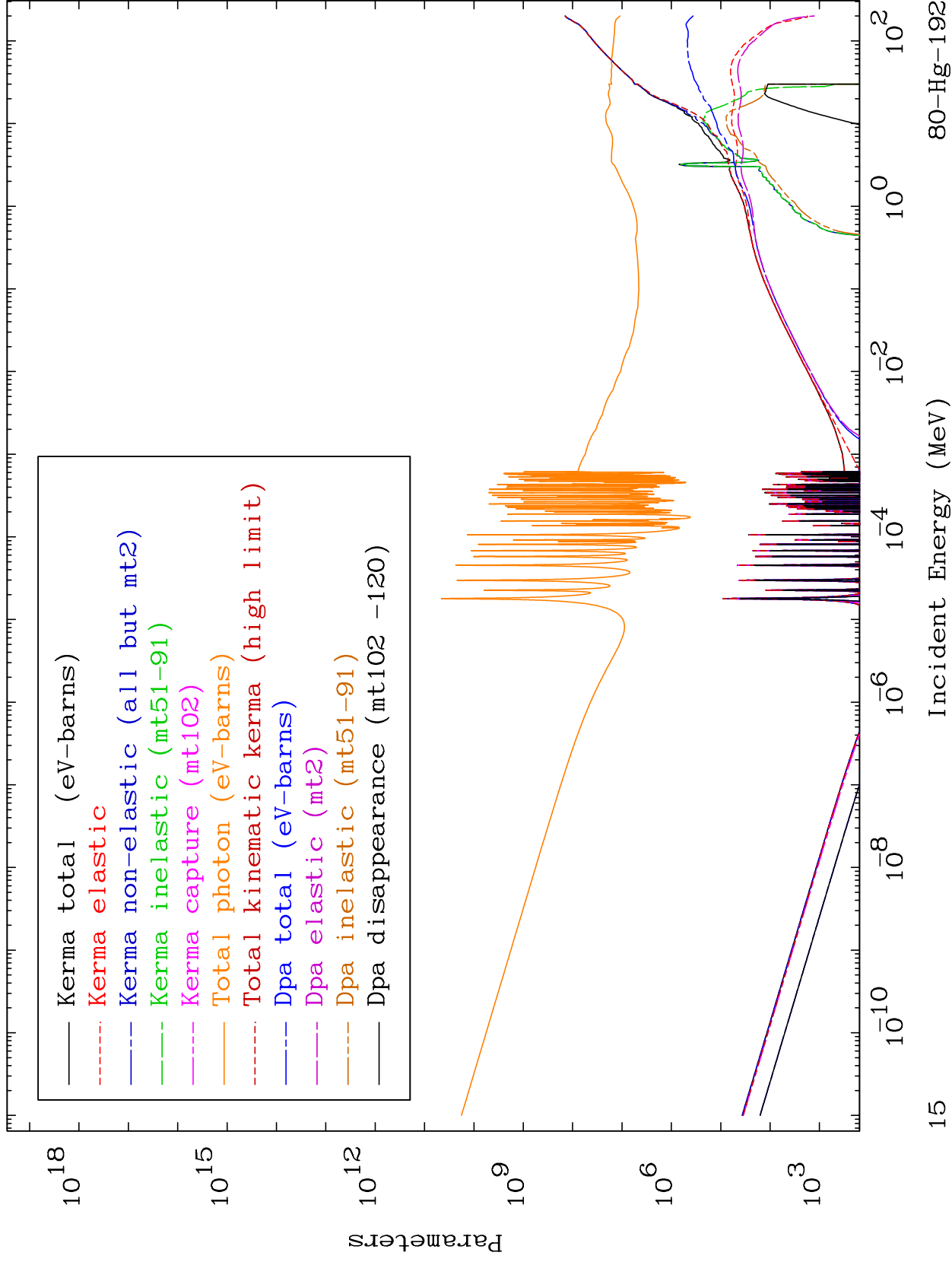
80-Hg-192

MAT 8013

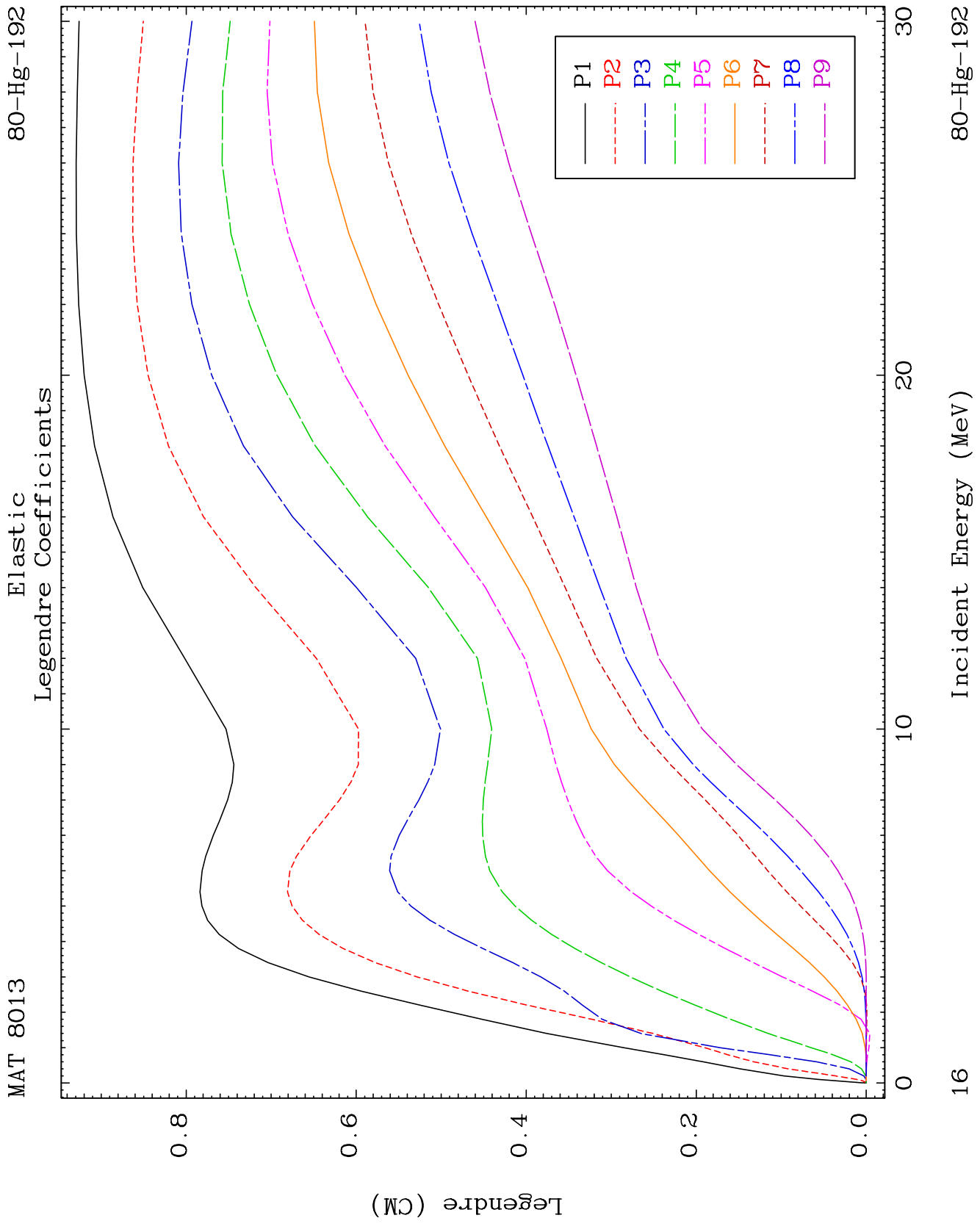
(n,  $\alpha$ ) Levels  
293 Kelvin Cross Sections

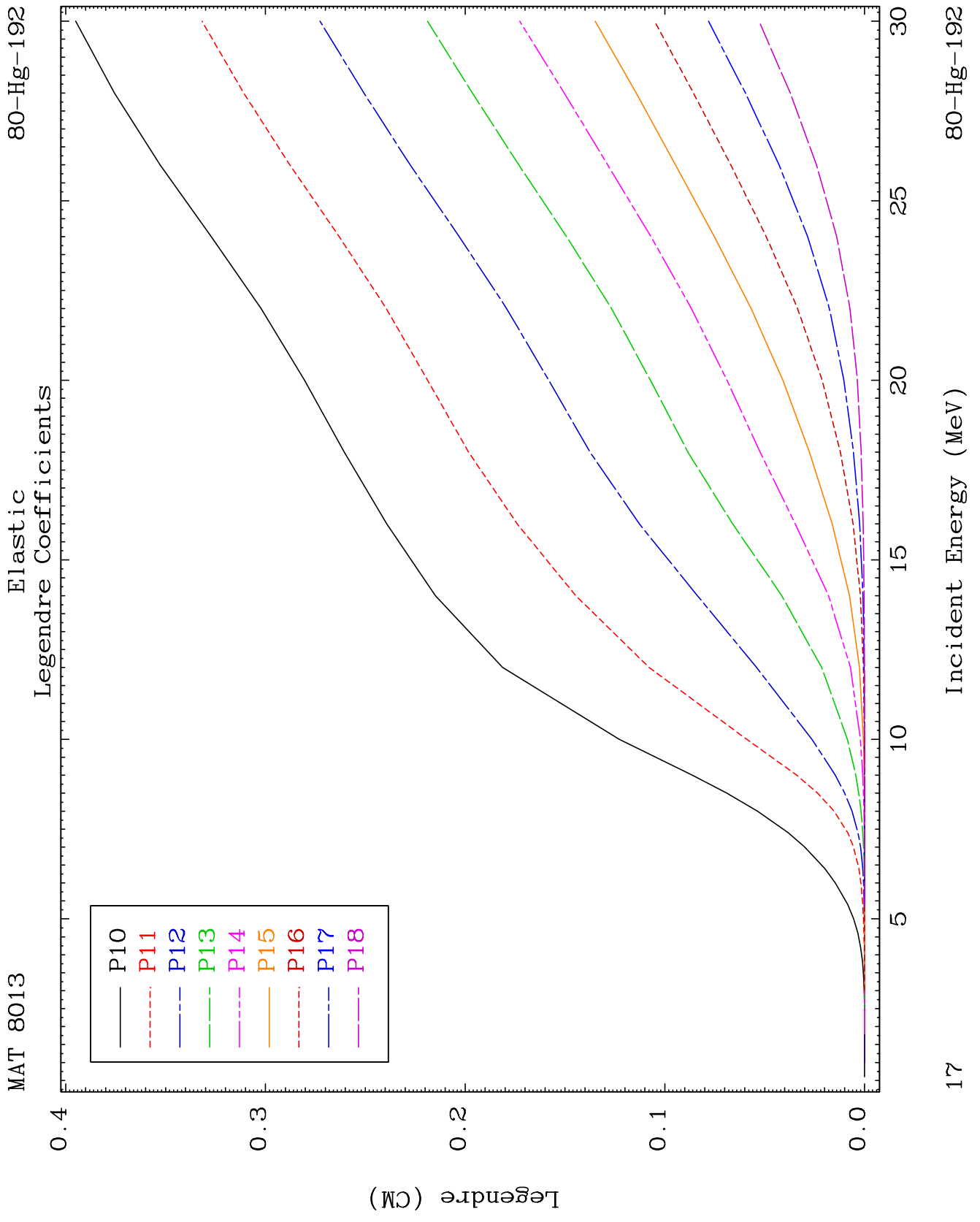
80-Hg-192







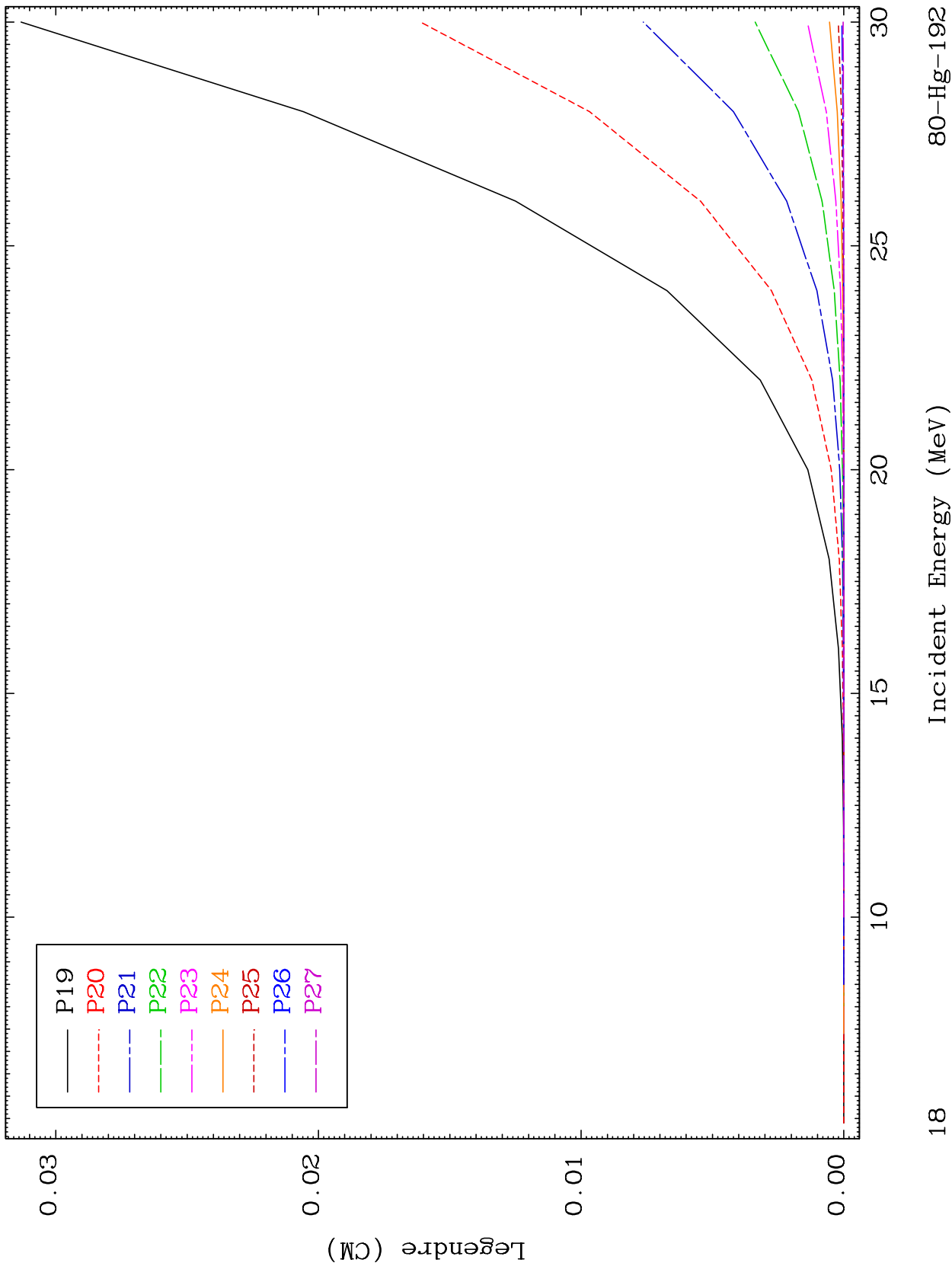




MAT 8013

### Elastic Legendre Coefficients

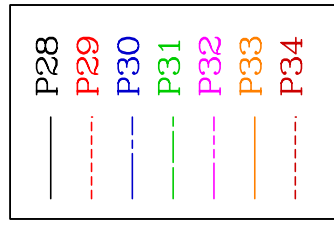
80-Hg-192



MAT 8013

Elastic  
Legendre Coefficients

80-Hg-192

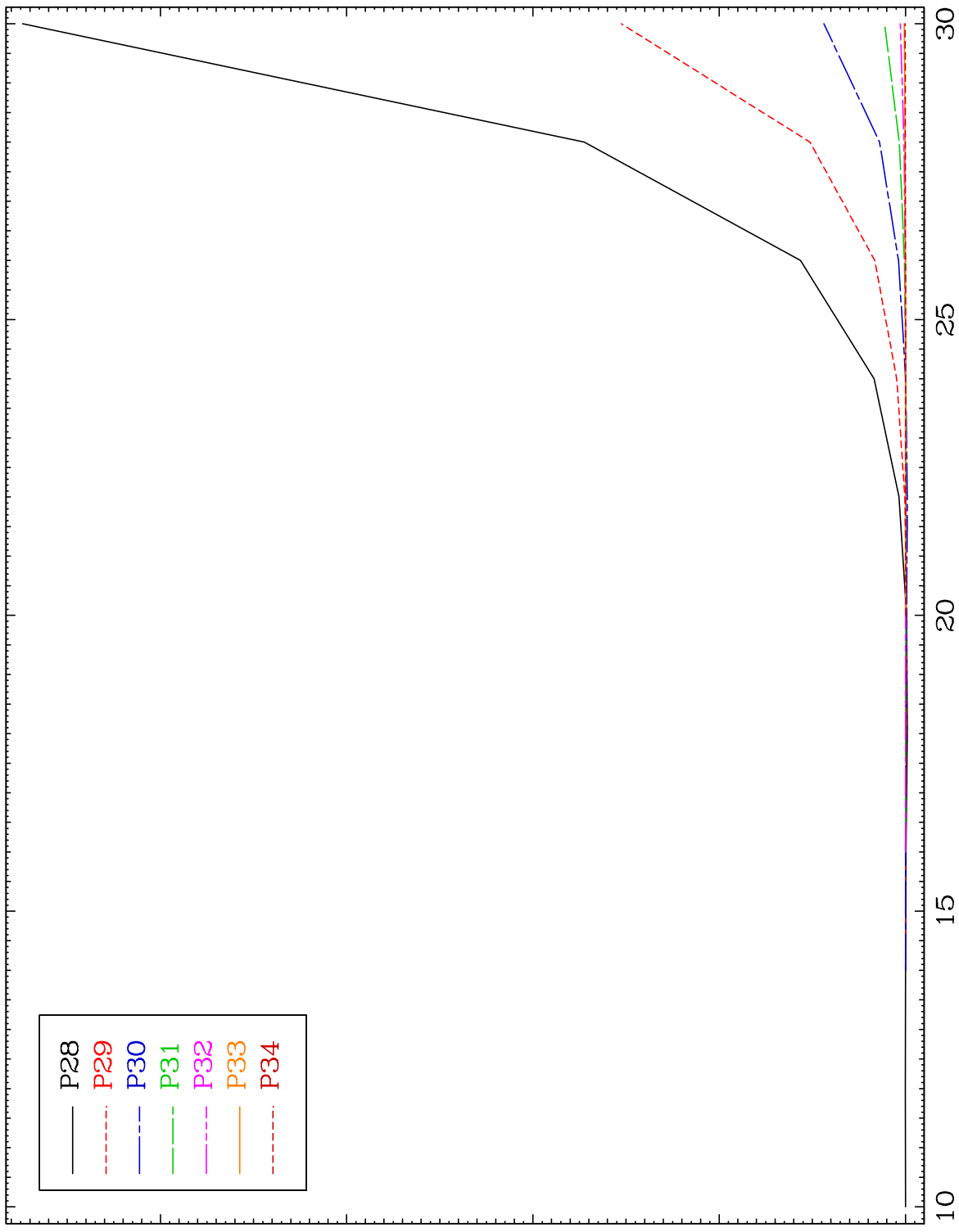


$\times 10^{-6}$

Legendre (CM)

Incident Energy (MeV)

80-Hg-192

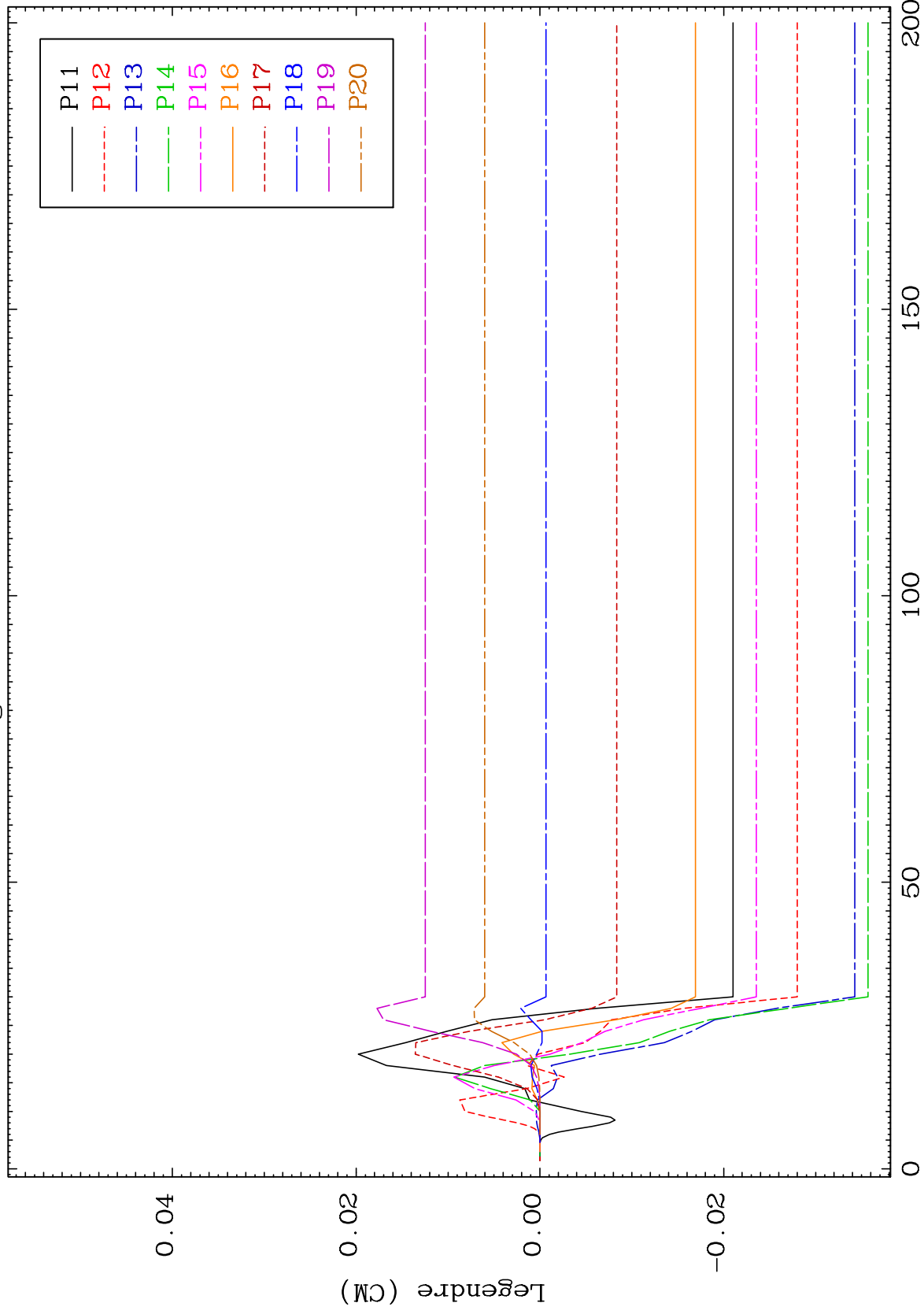




MAT 8013

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

80-Hg-192



21

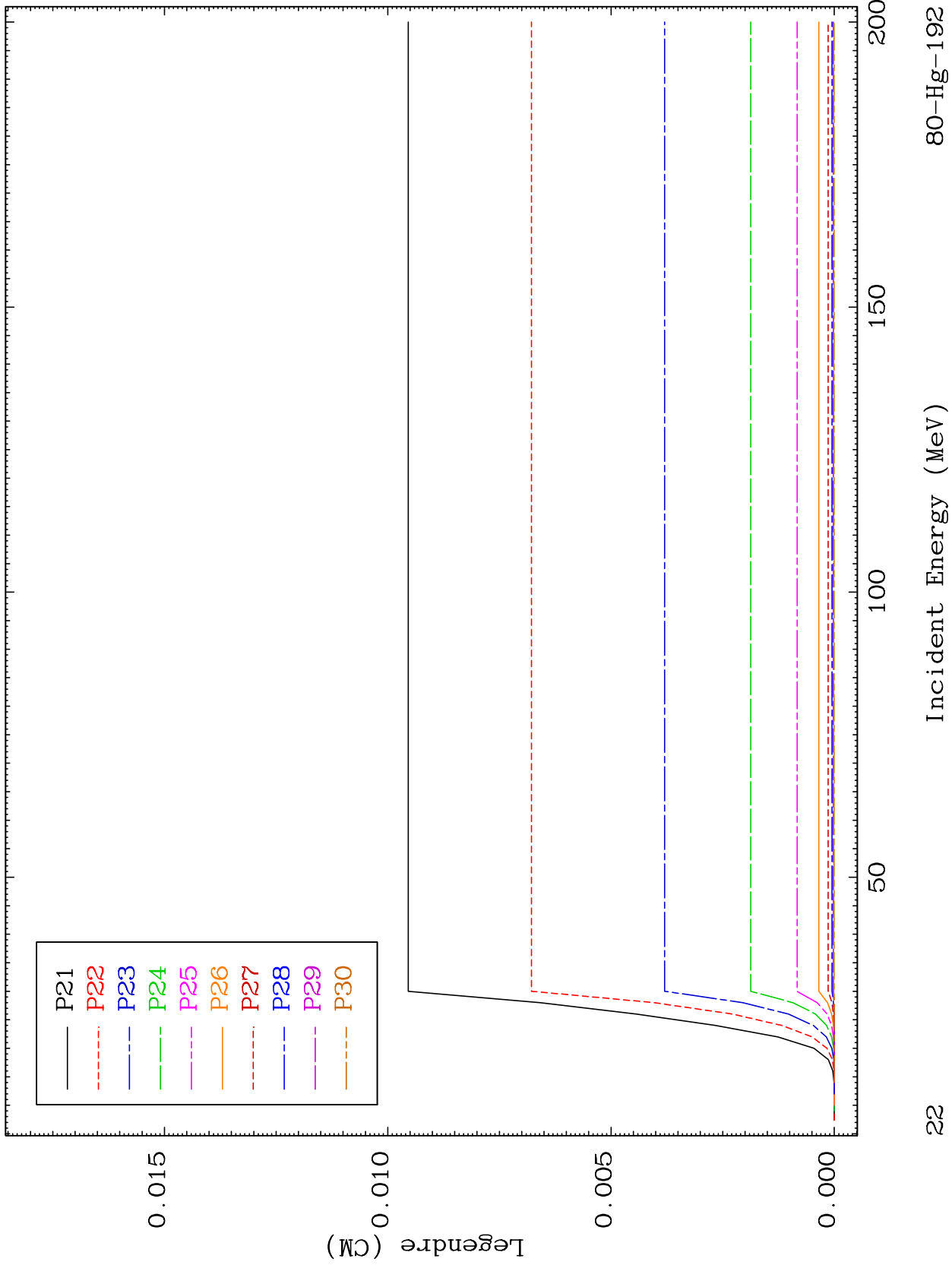
Incident Energy (MeV)

80-Hg-192

MAT 8013

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

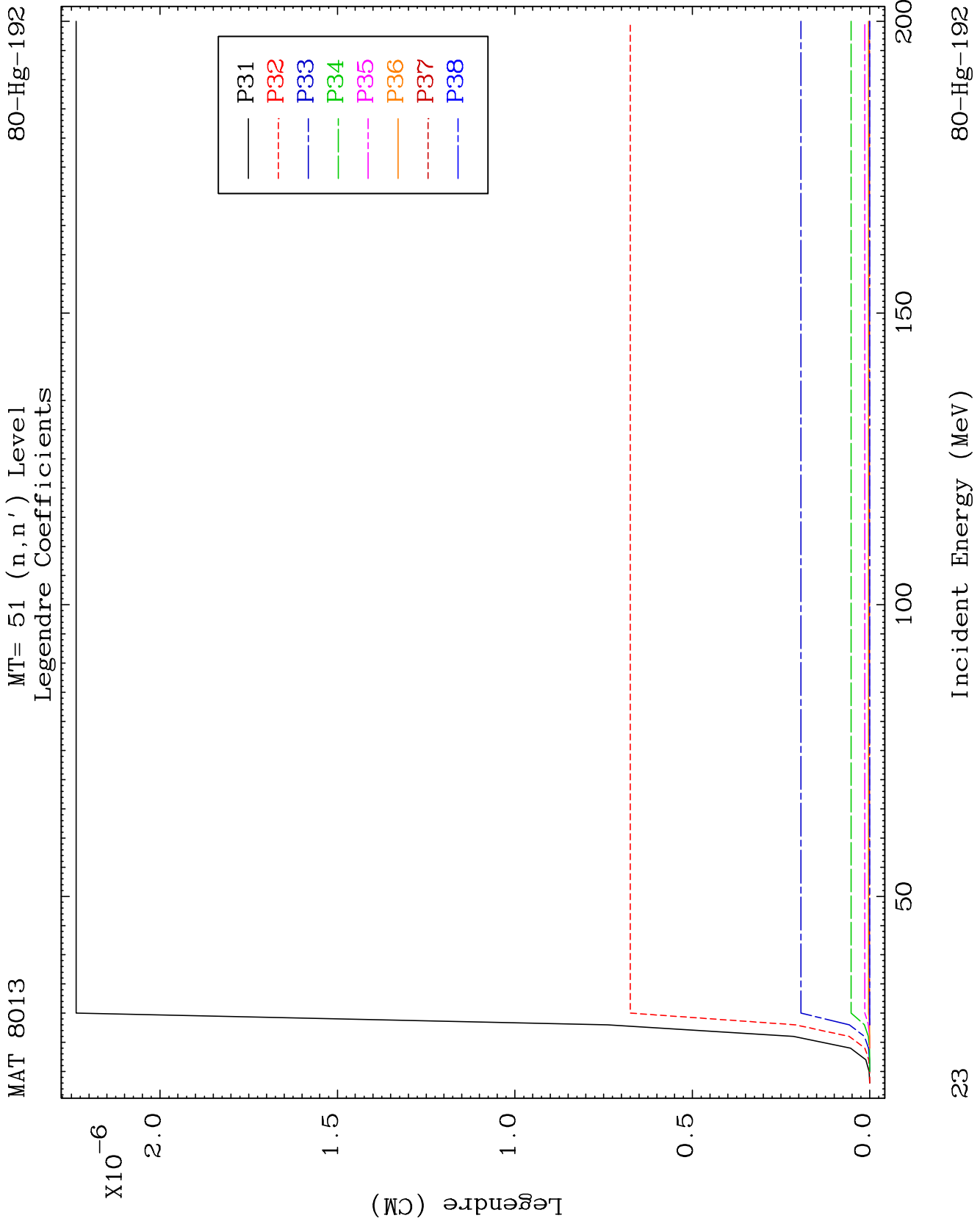
80-Hg-192



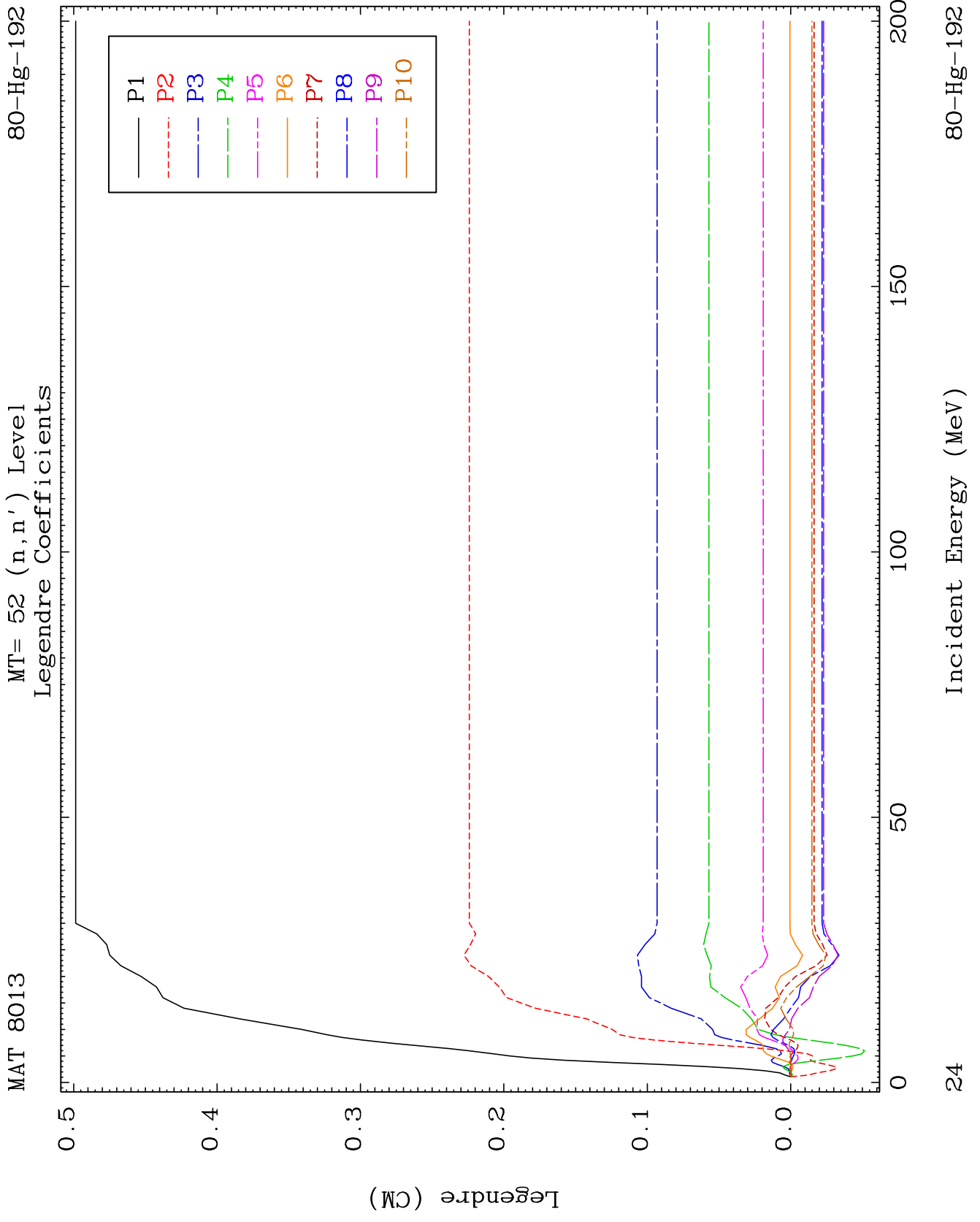
22

Incident Energy (MeV)

80-Hg-192





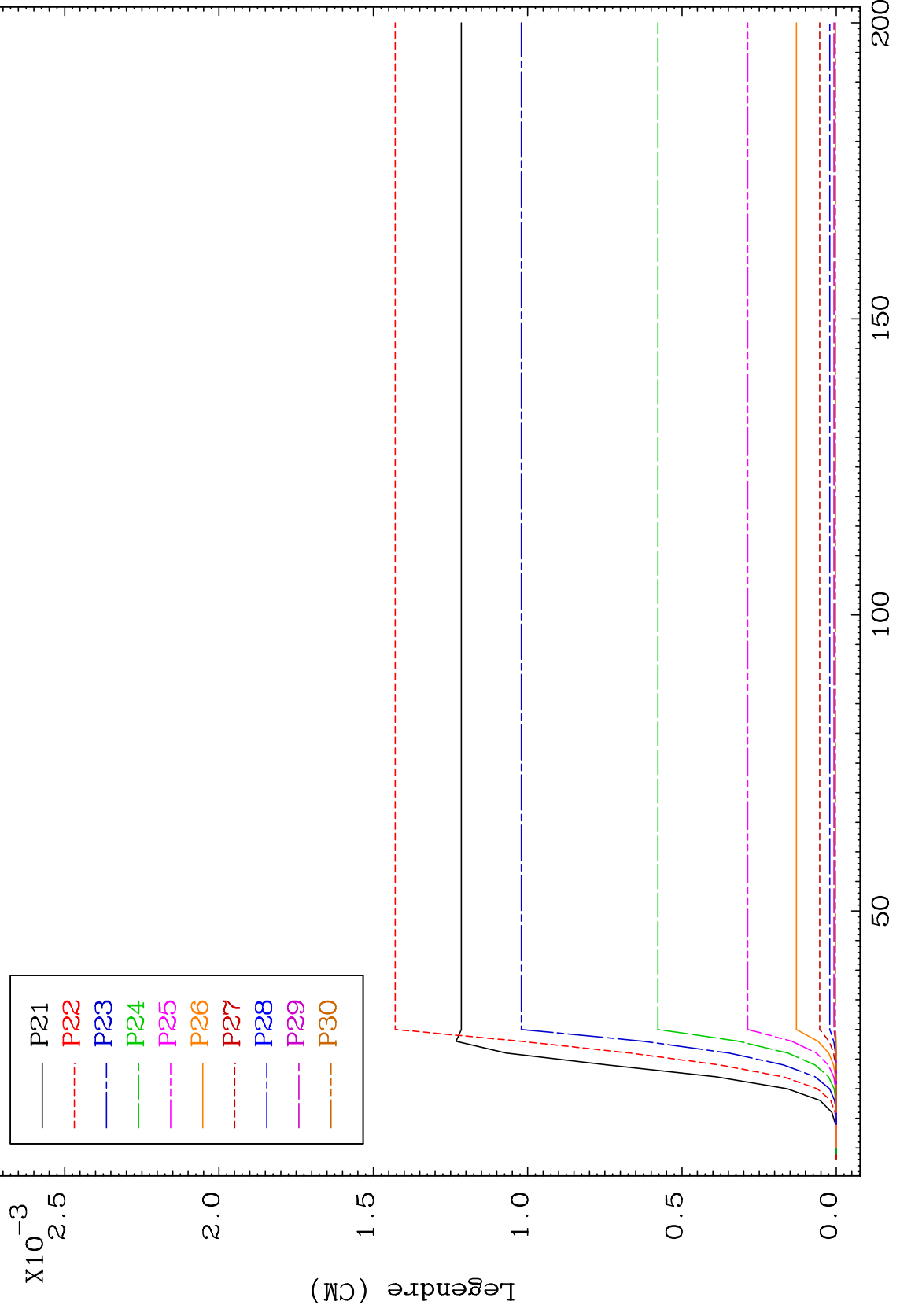
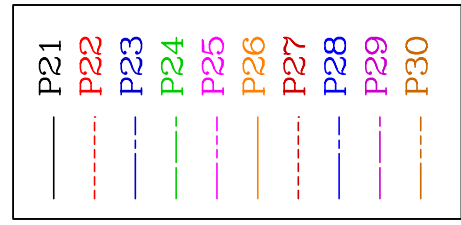




MAT 8013

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

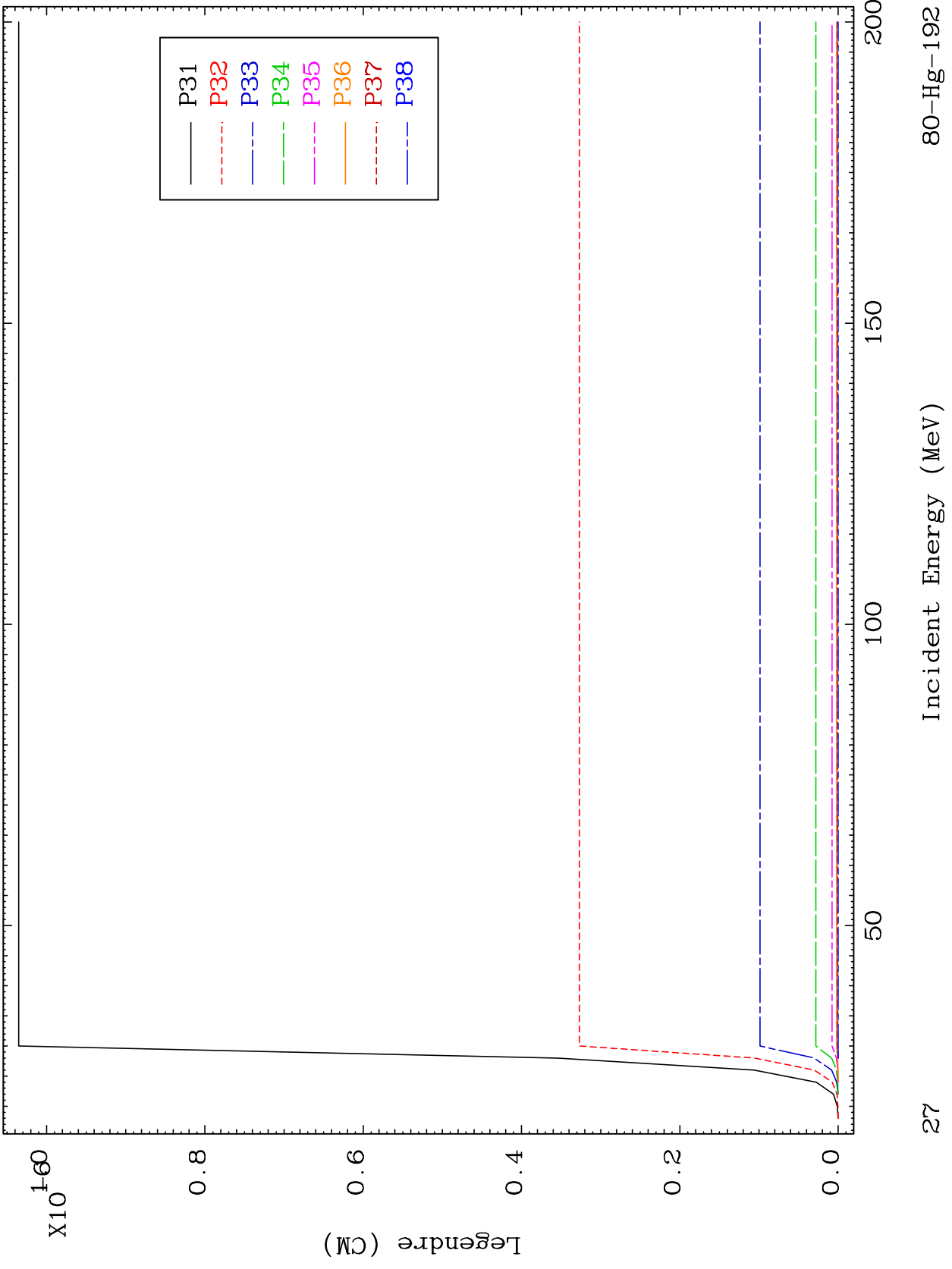
80-Hg-192



MAT 8013

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

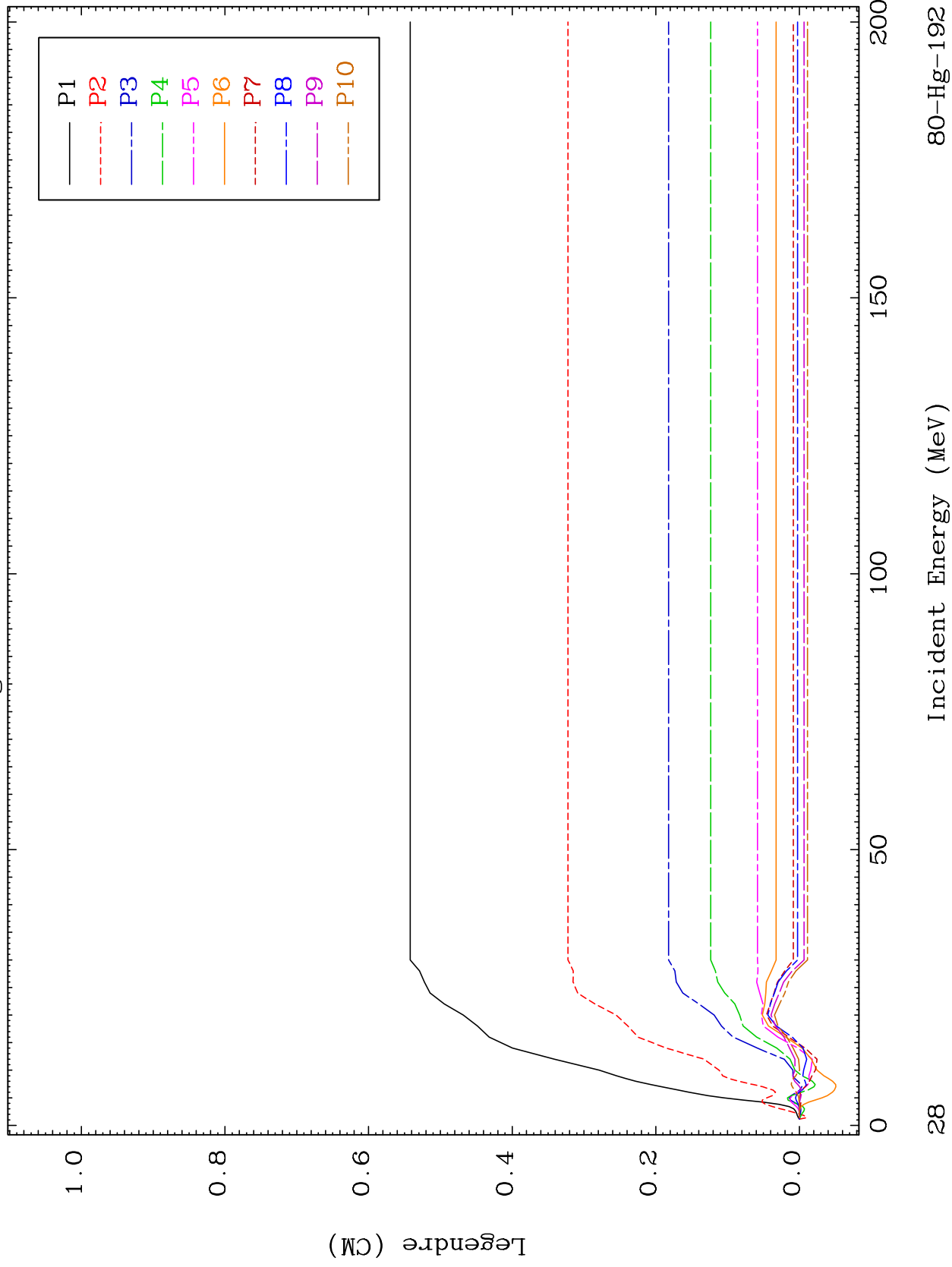
80-Hg-192



MAT 8013

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

80-Hg-192



80-Hg-192

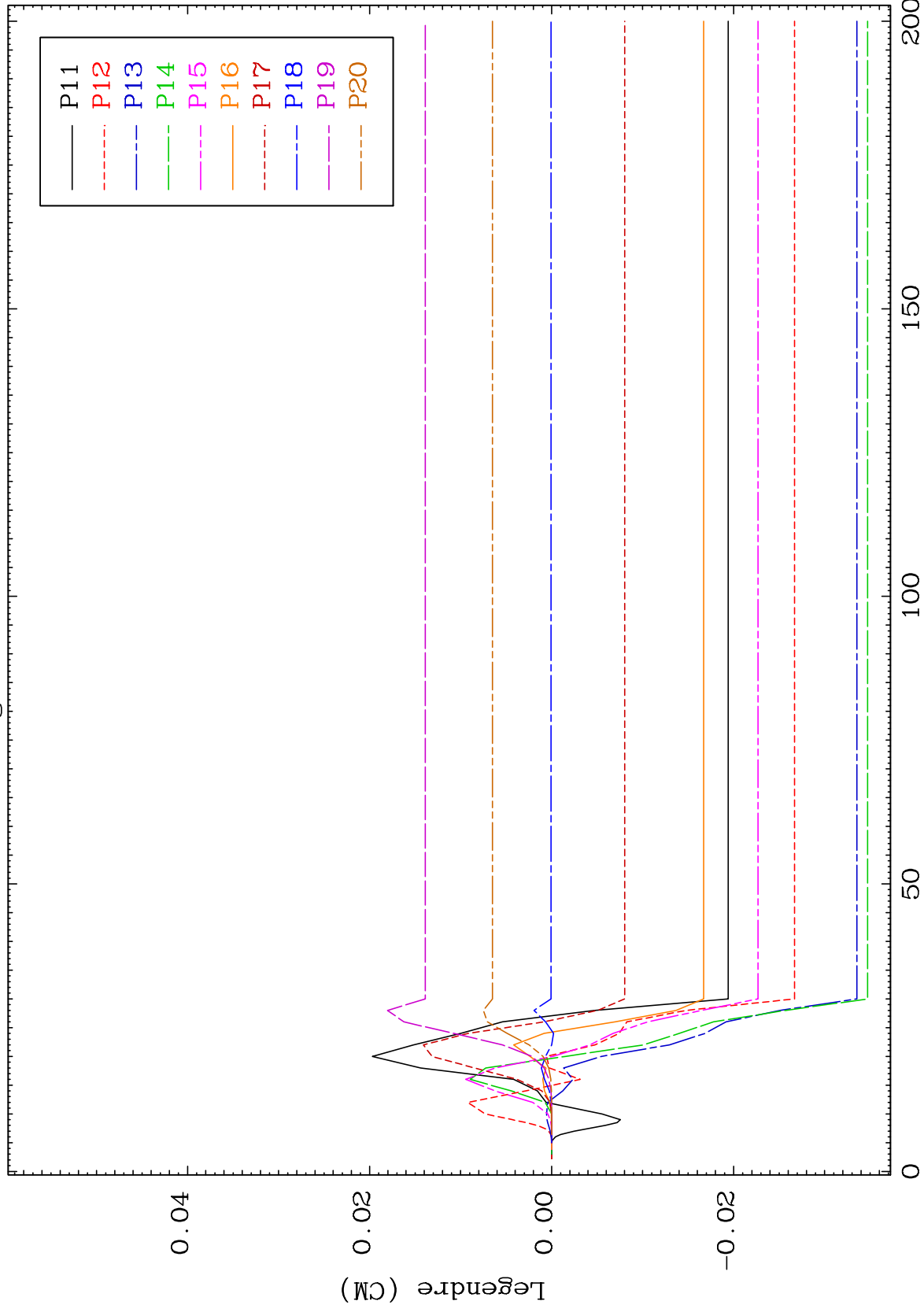
Incident Energy (MeV)

28

MAT 8013

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

80-Hg-192



29

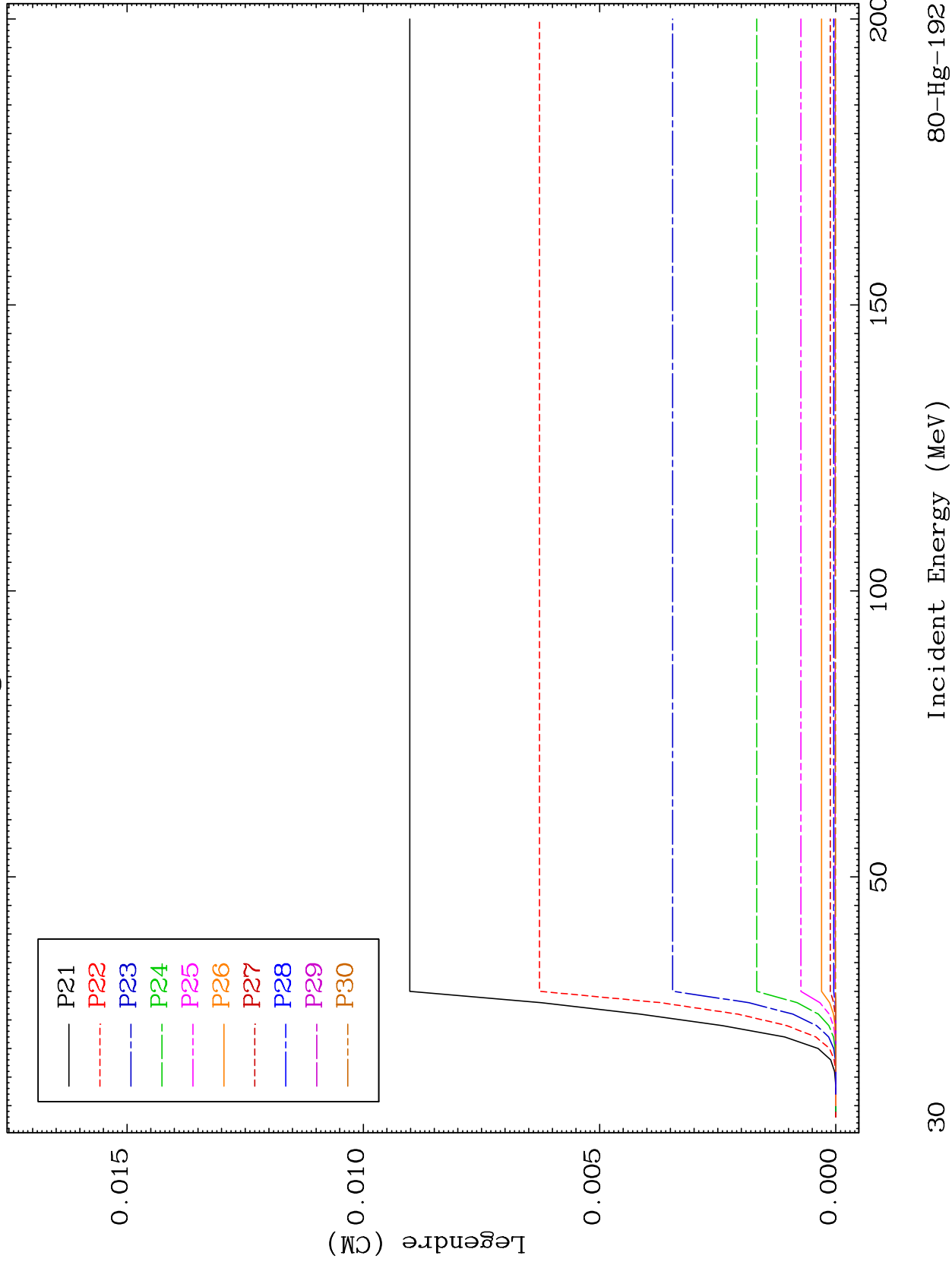
Incident Energy (MeV)

80-Hg-192

MAT 8013

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

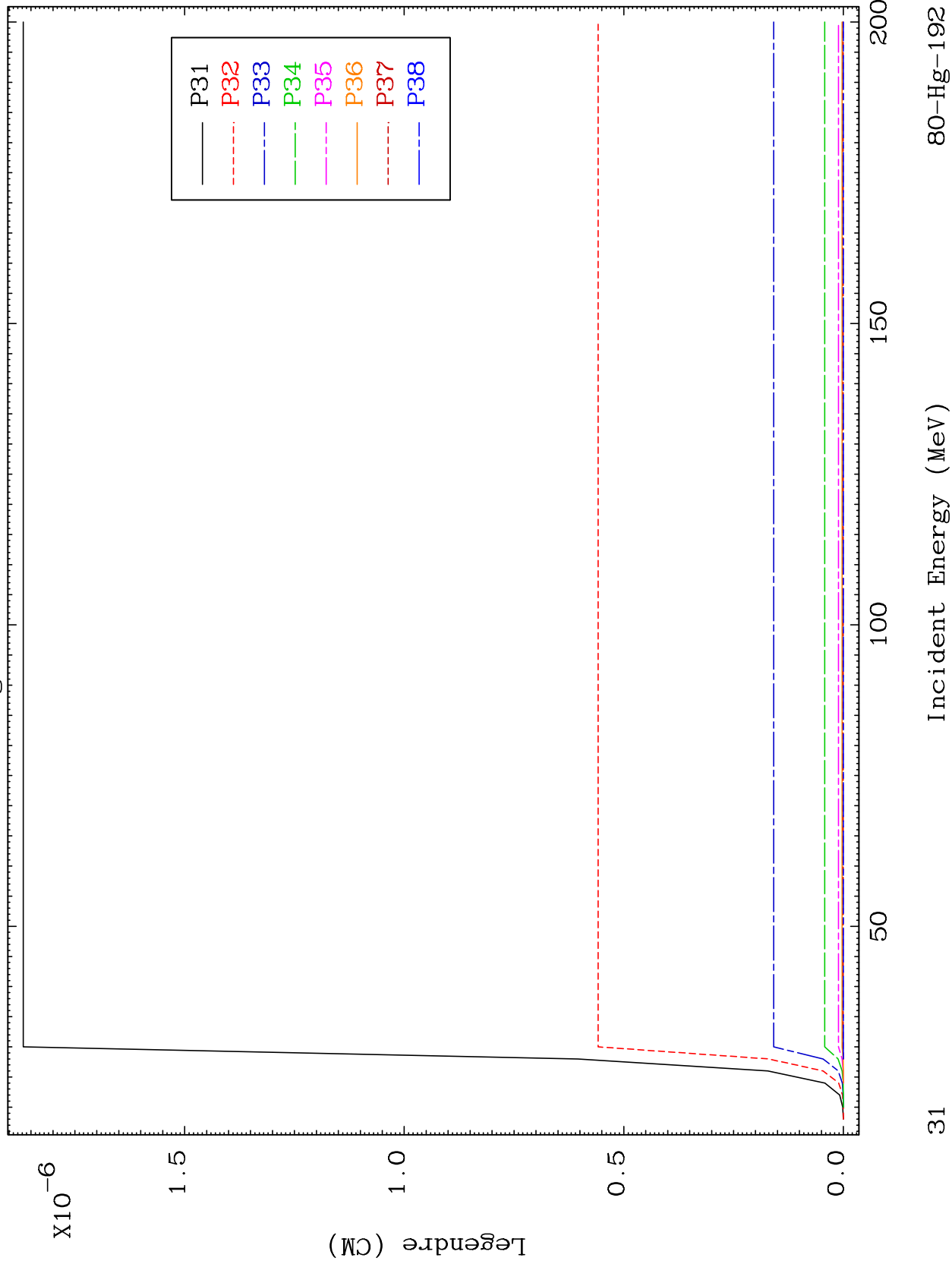
80-Hg-192



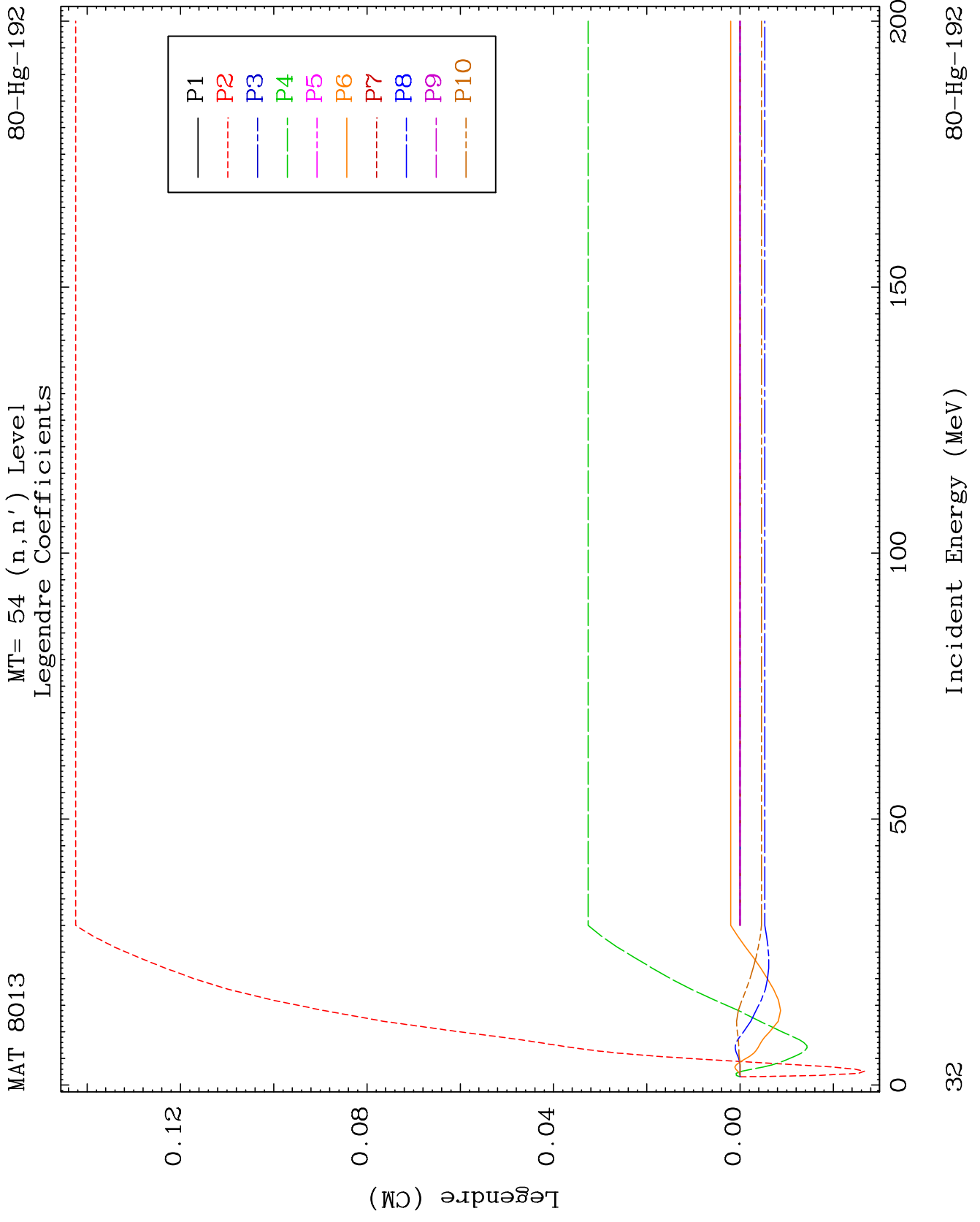
MAT 8013

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

80-Hg-192



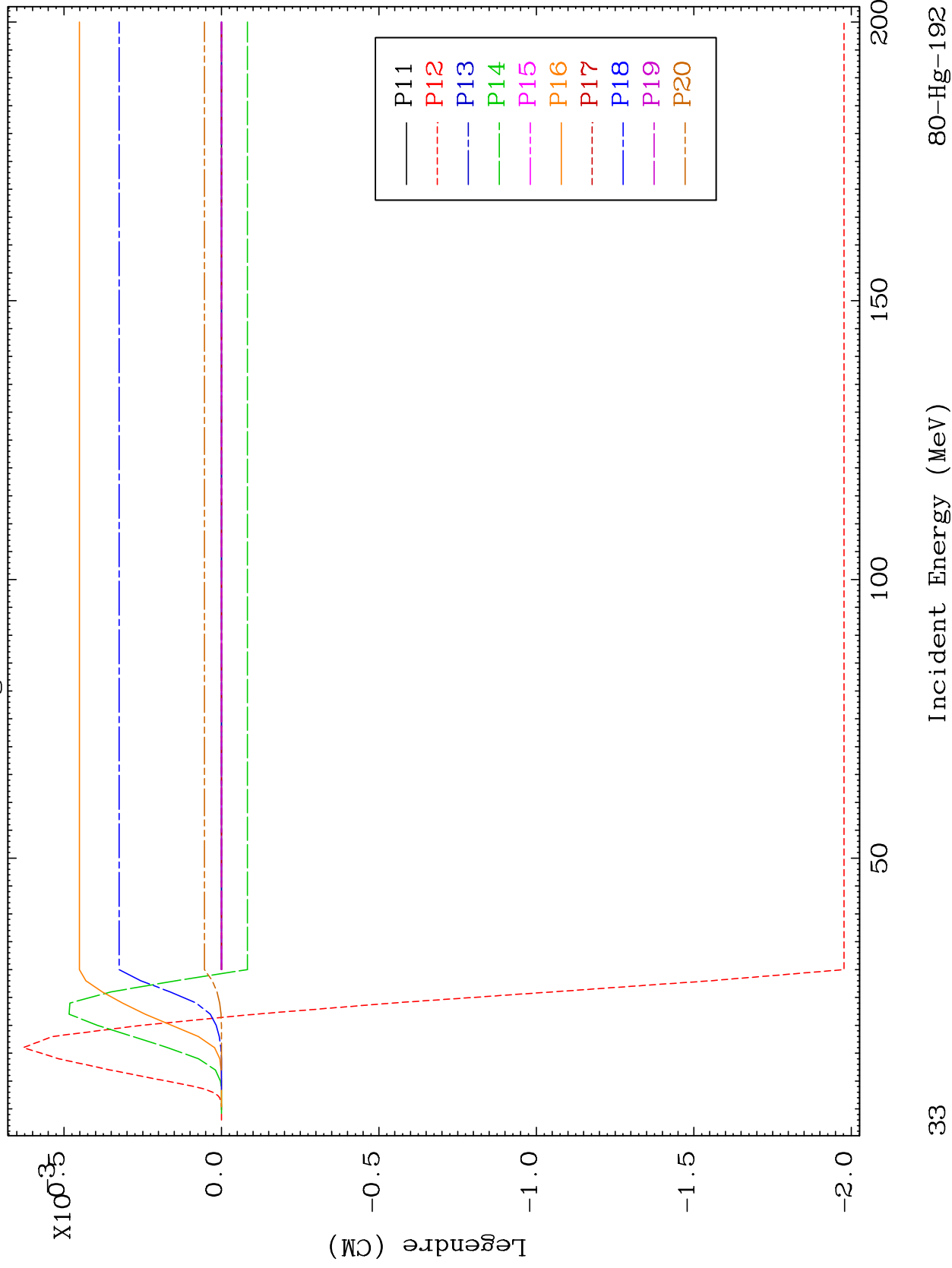




MAT 8013

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

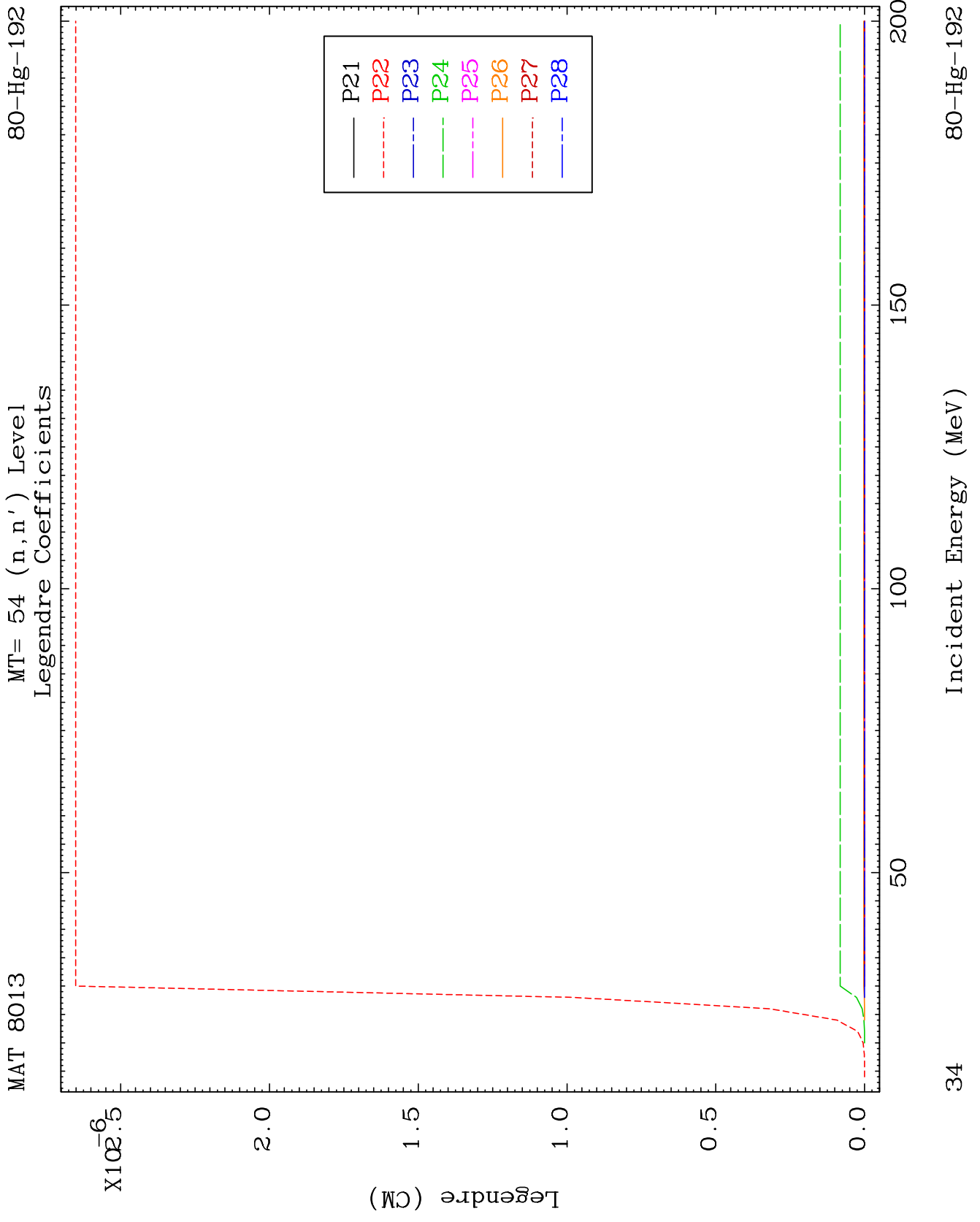
80-Hg-192

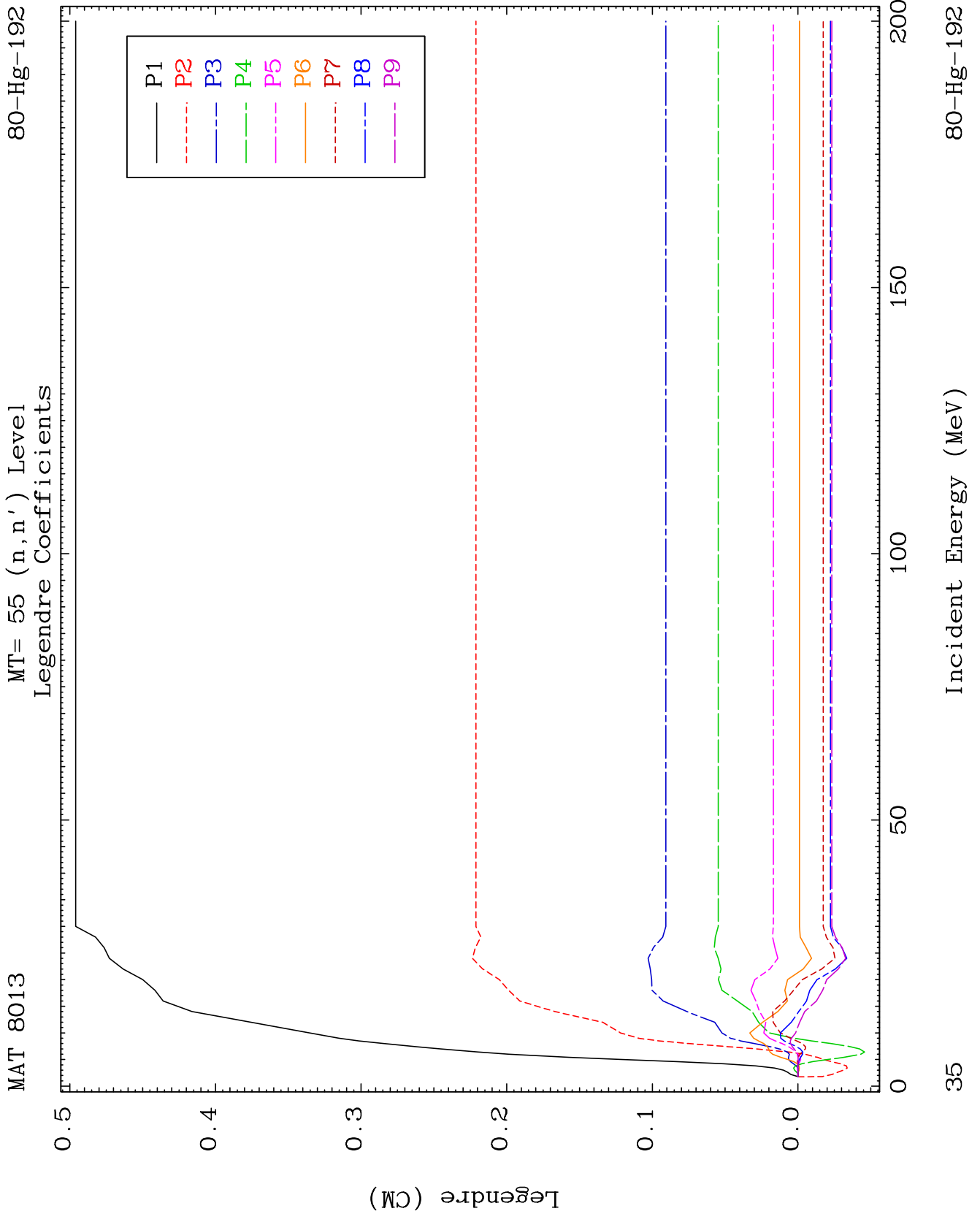


33

Incident Energy (MeV)

80-Hg-192

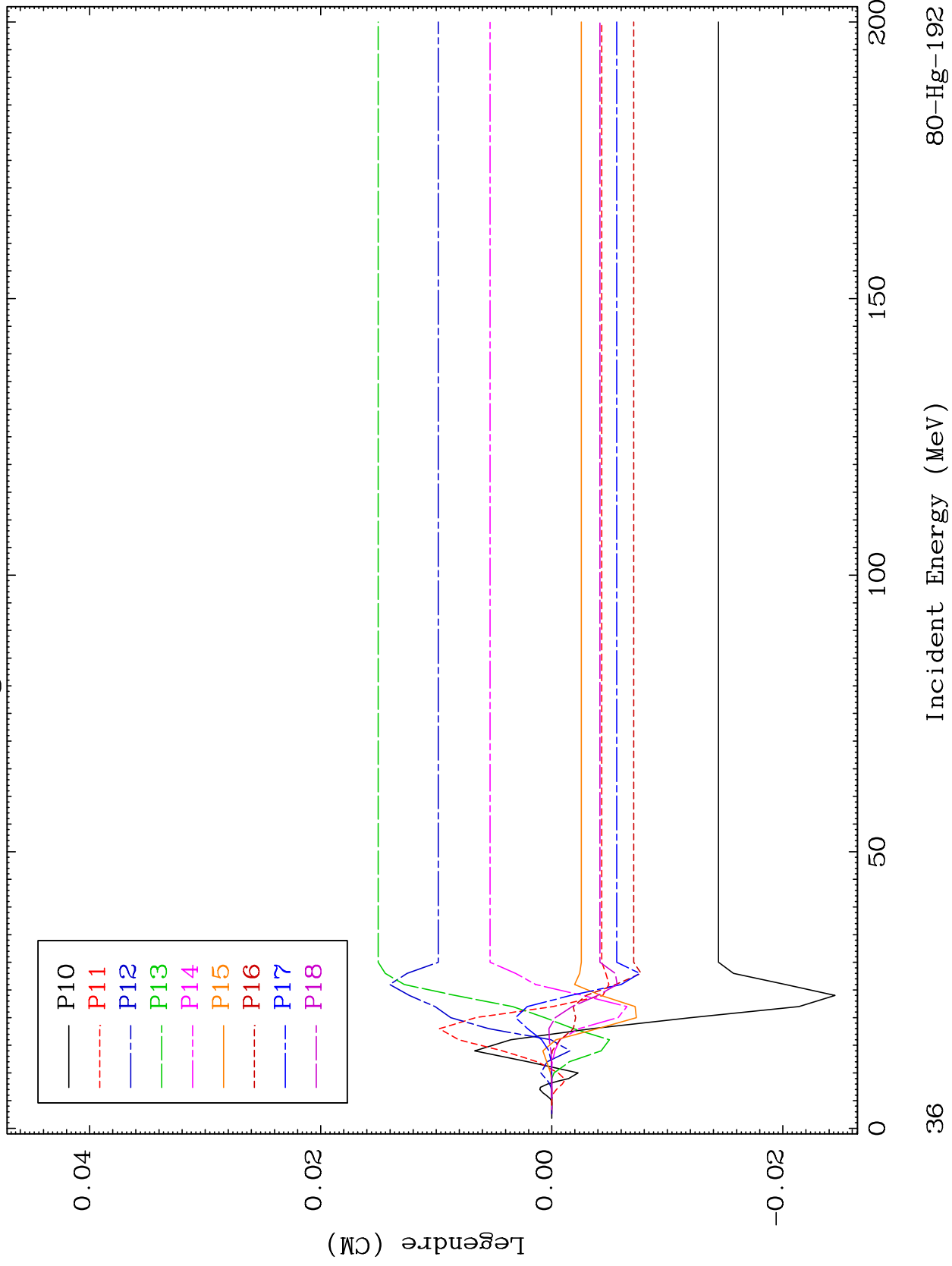




MAT 8013

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

80-Hg-192



36

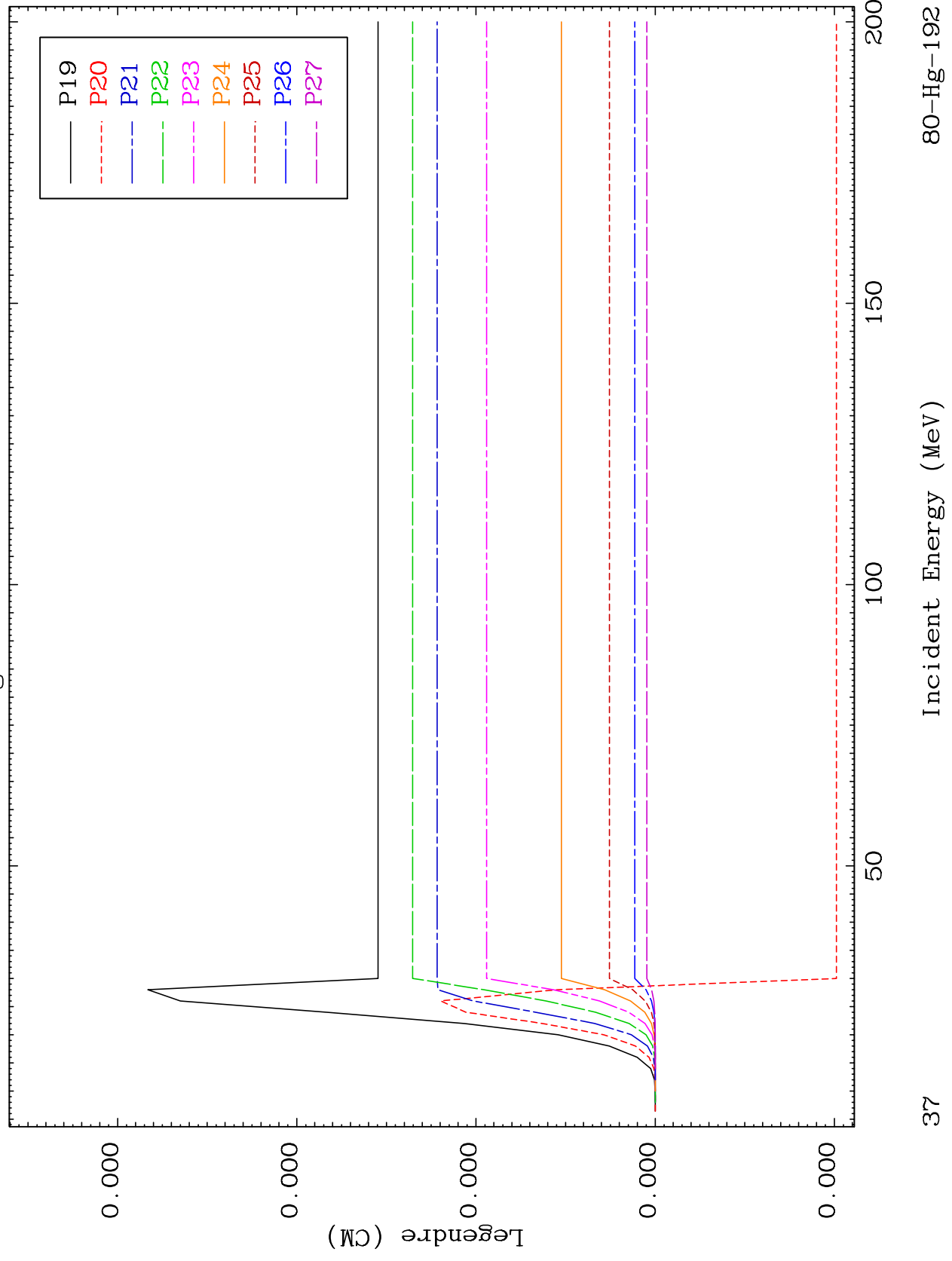
Incident Energy (MeV)

80-Hg-192

MAT 8013

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

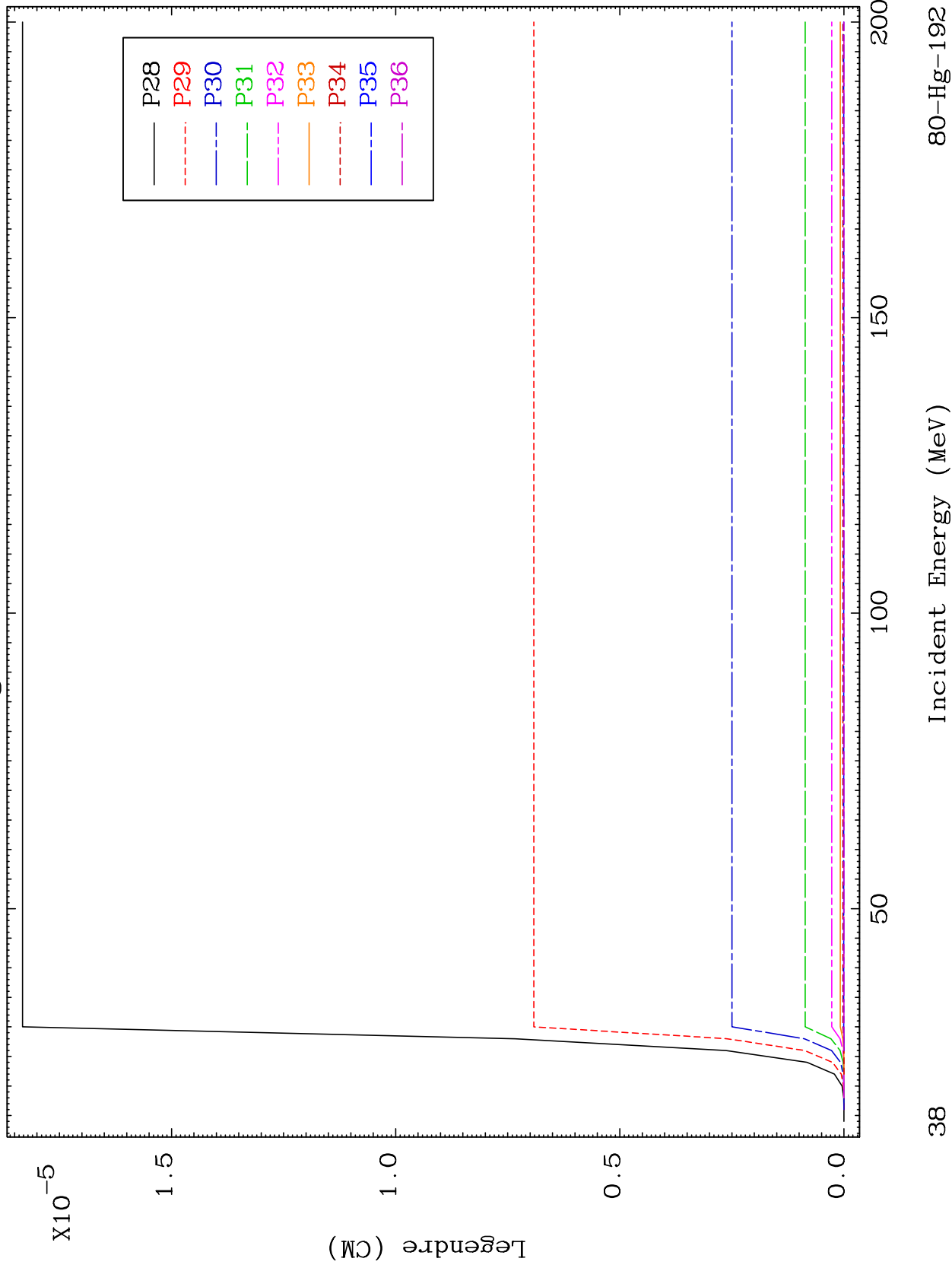
80-Hg-192



MAT 8013

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

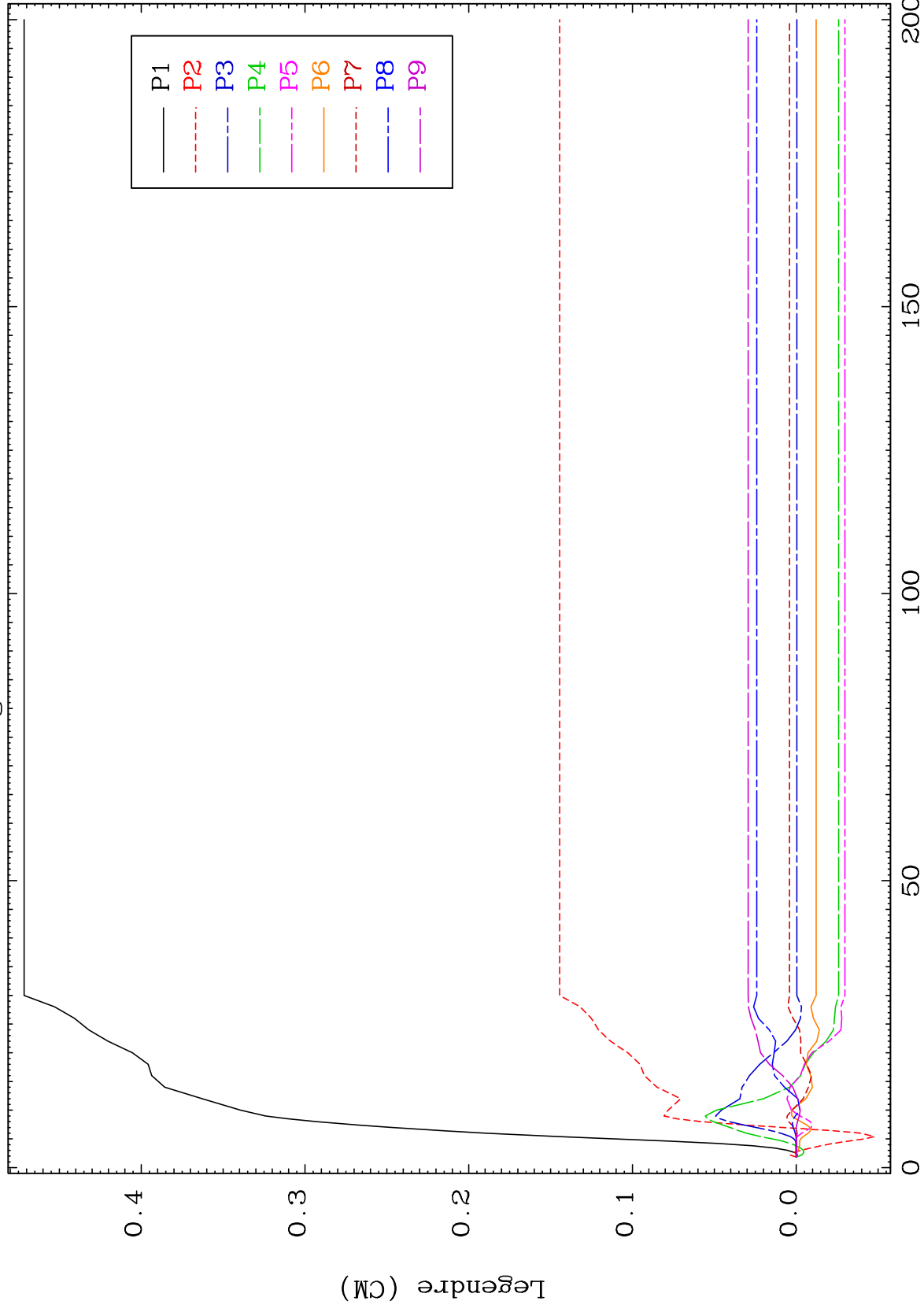
80-Hg-192



MAT 8013

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

80-Hg-192



39

Incident Energy (MeV)

80-Hg-192

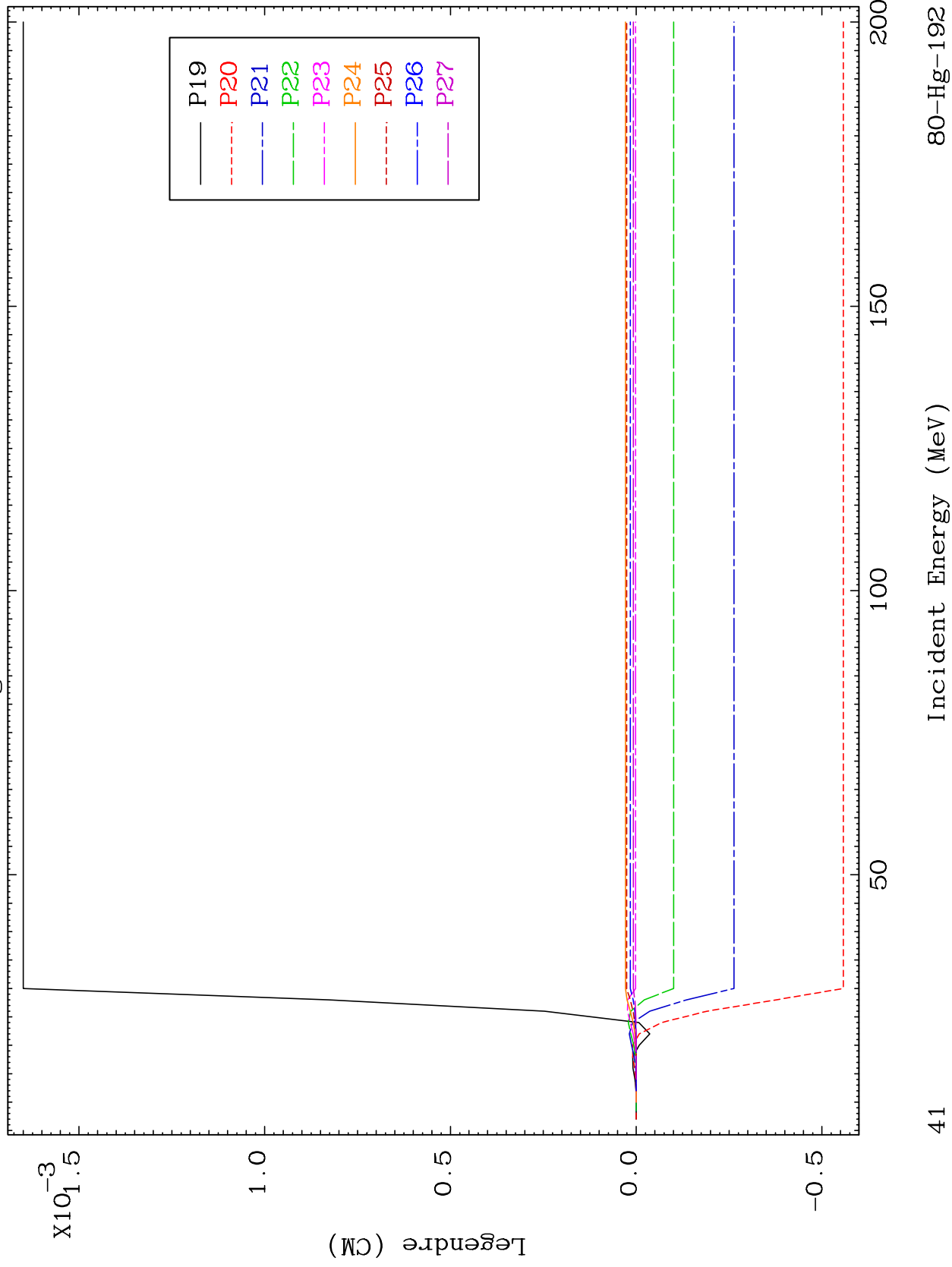




MAT 8013

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

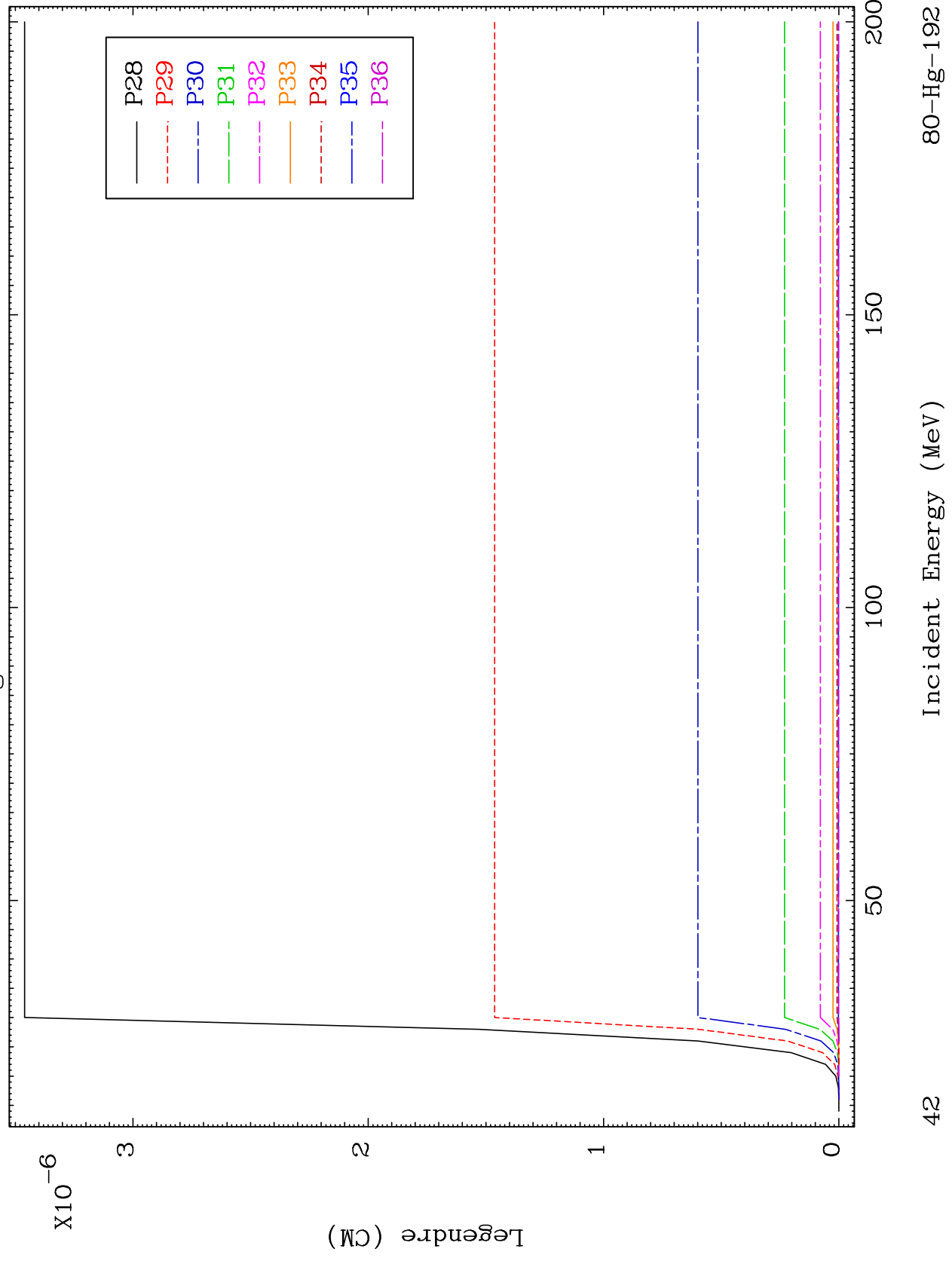
80-Hg-192



MAT 8013

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

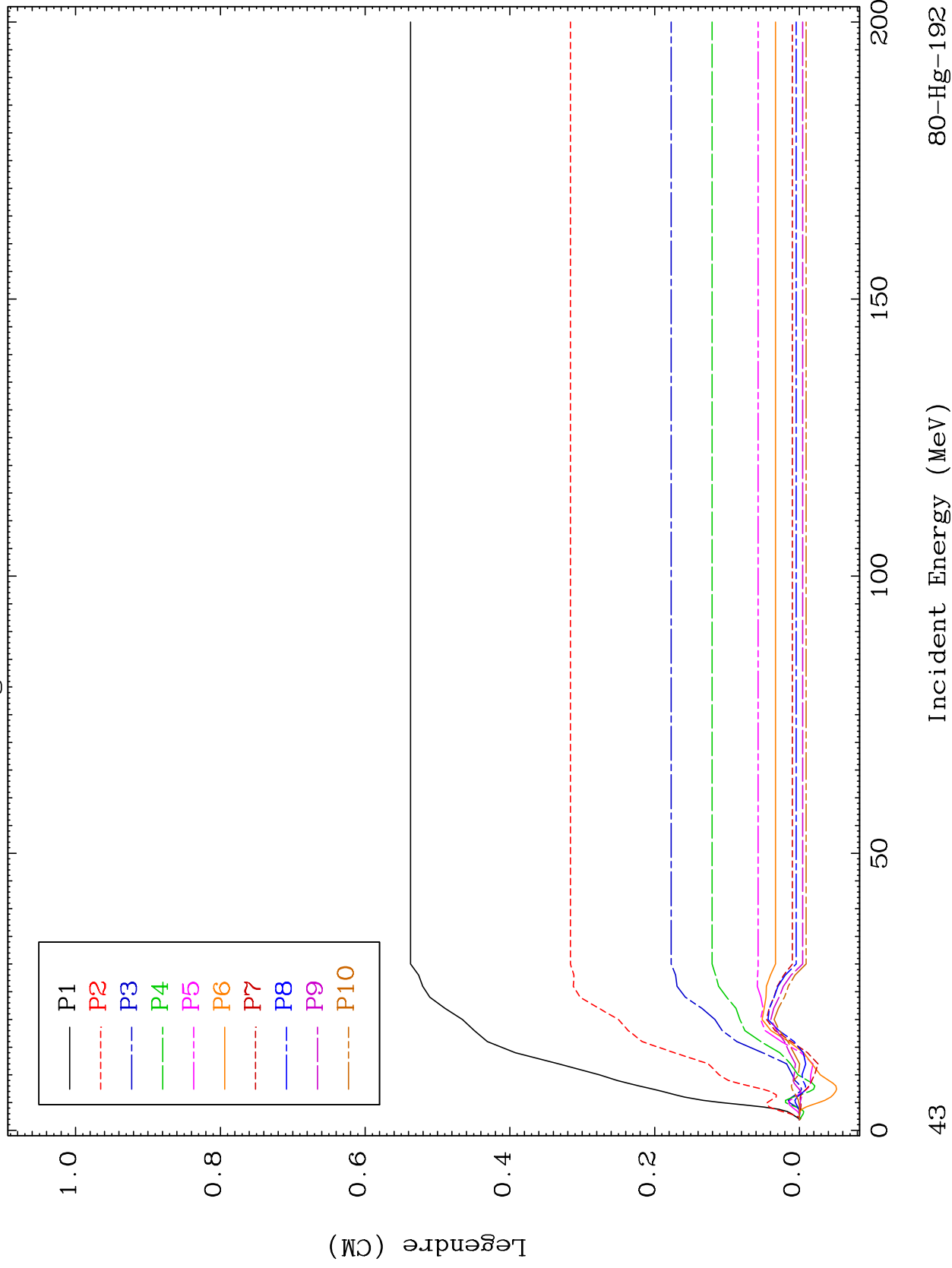
80-Hg-192



MAT 8013

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

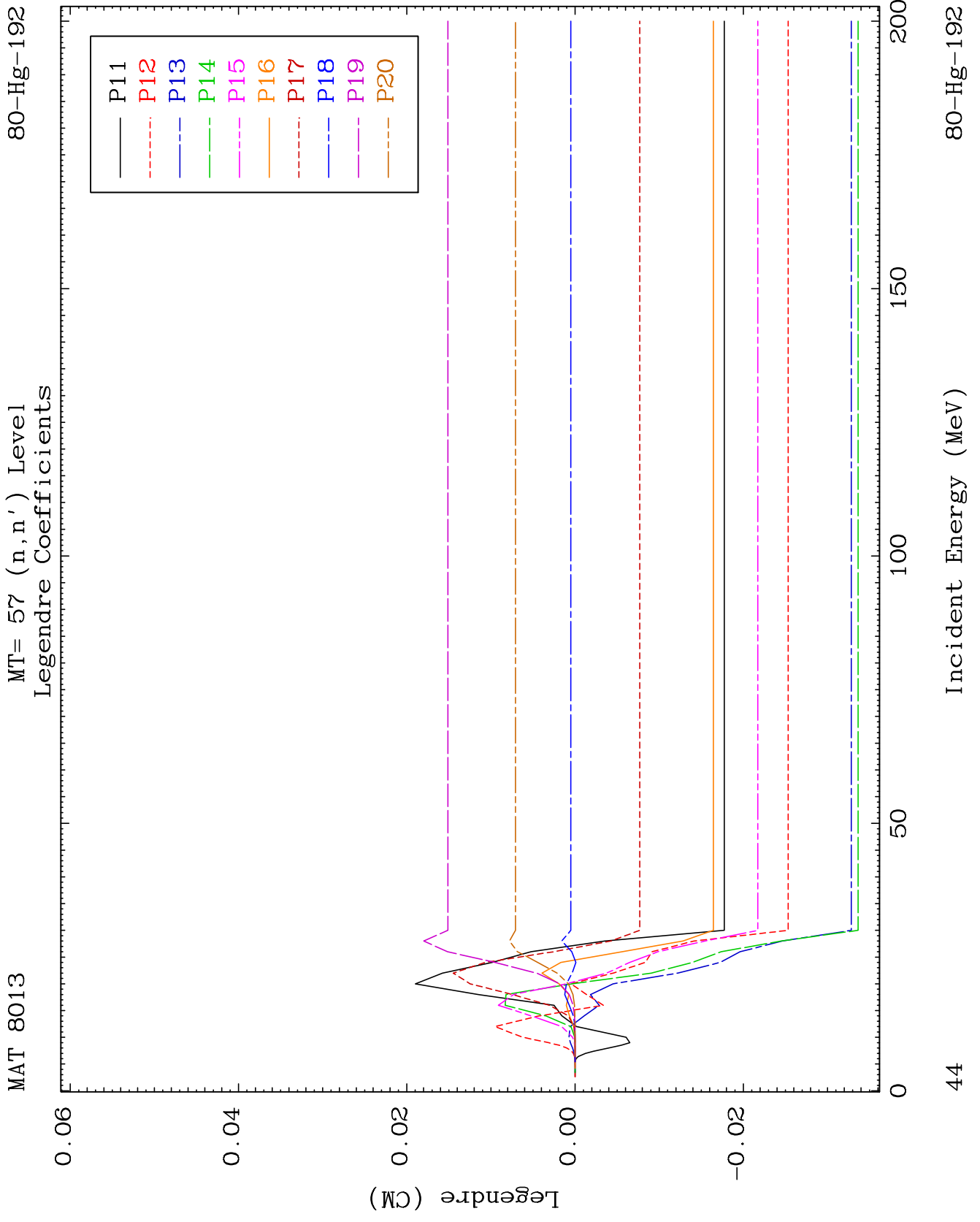
80-Hg-192



43

Incident Energy (MeV)

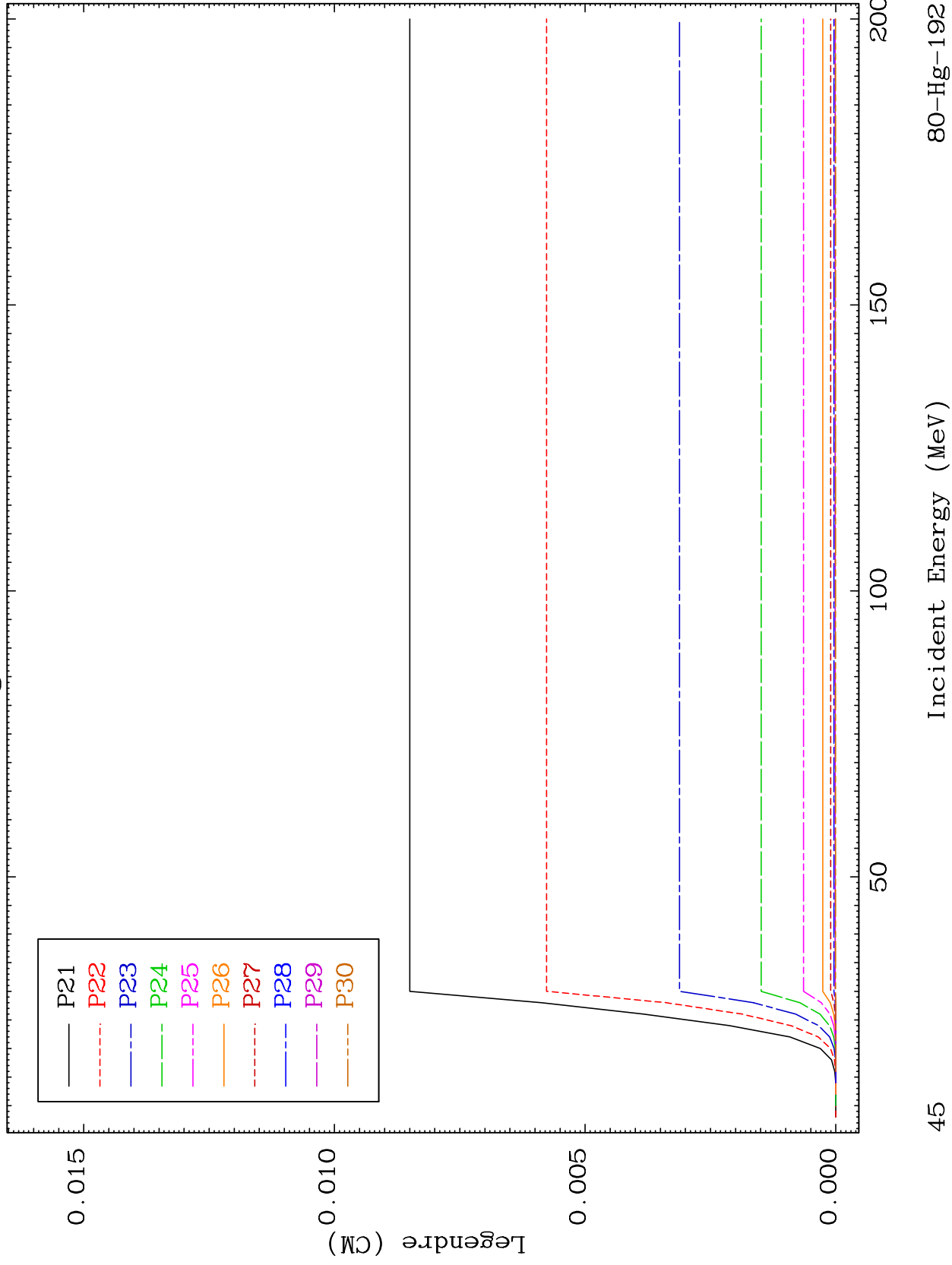
80-Hg-192



MAT 8013

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

80-Hg-192



45

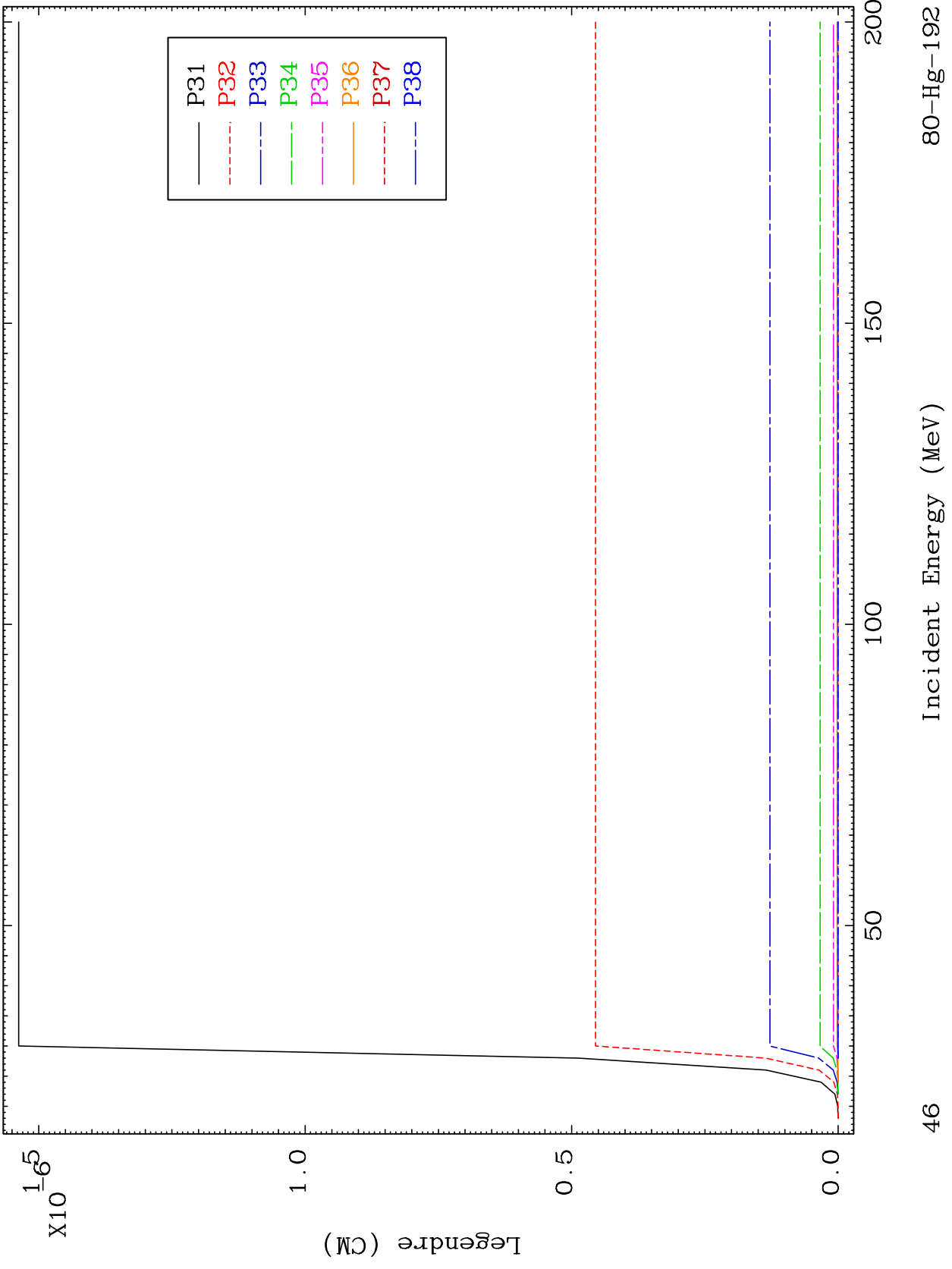
Incident Energy (MeV)

80-Hg-192

MAT 8013

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

80-Hg-192



46

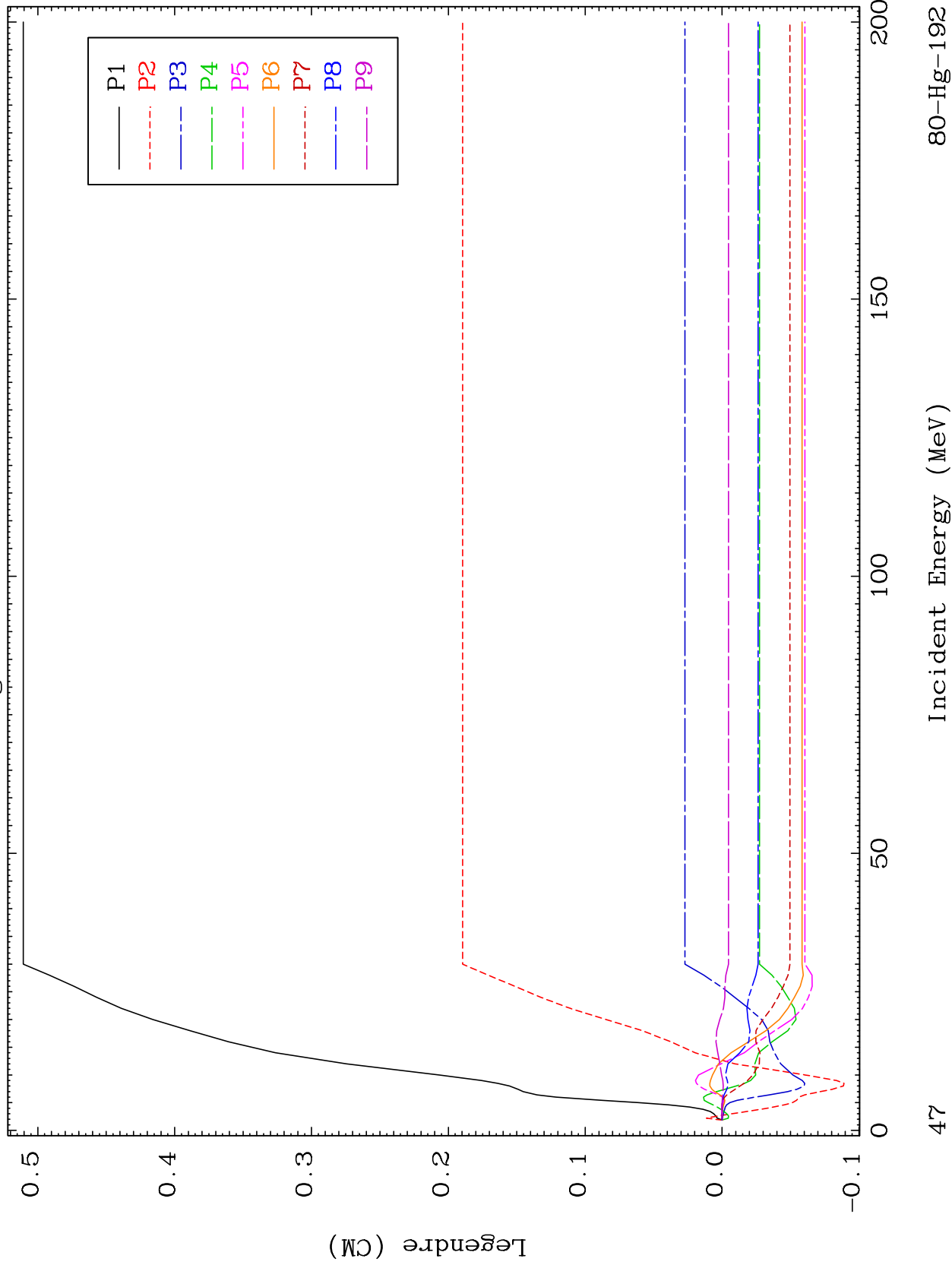
Incident Energy (MeV)

80-Hg-192

MAT 8013

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

80-Hg-192



80-Hg-192

Incident Energy (MeV)

47

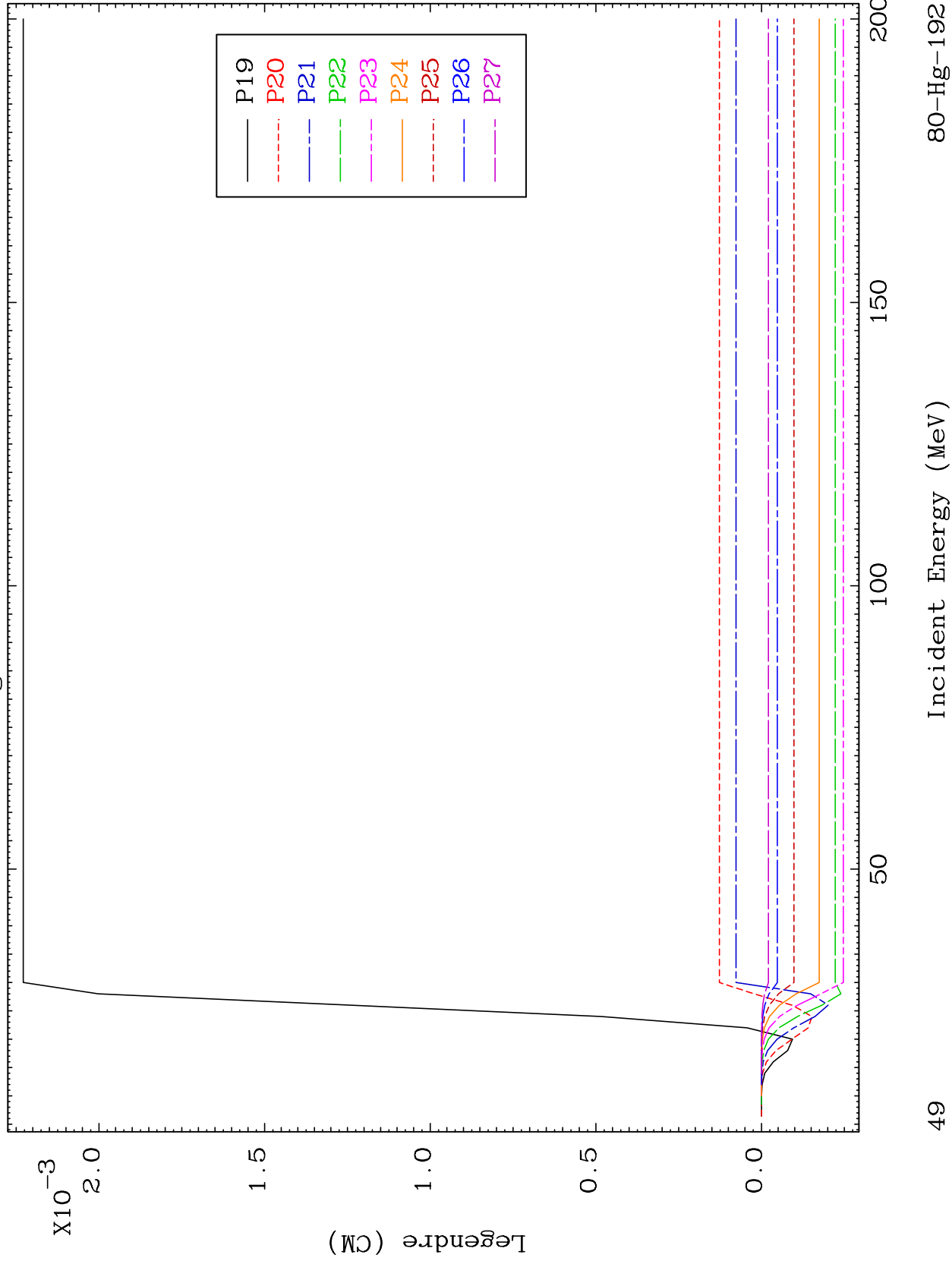


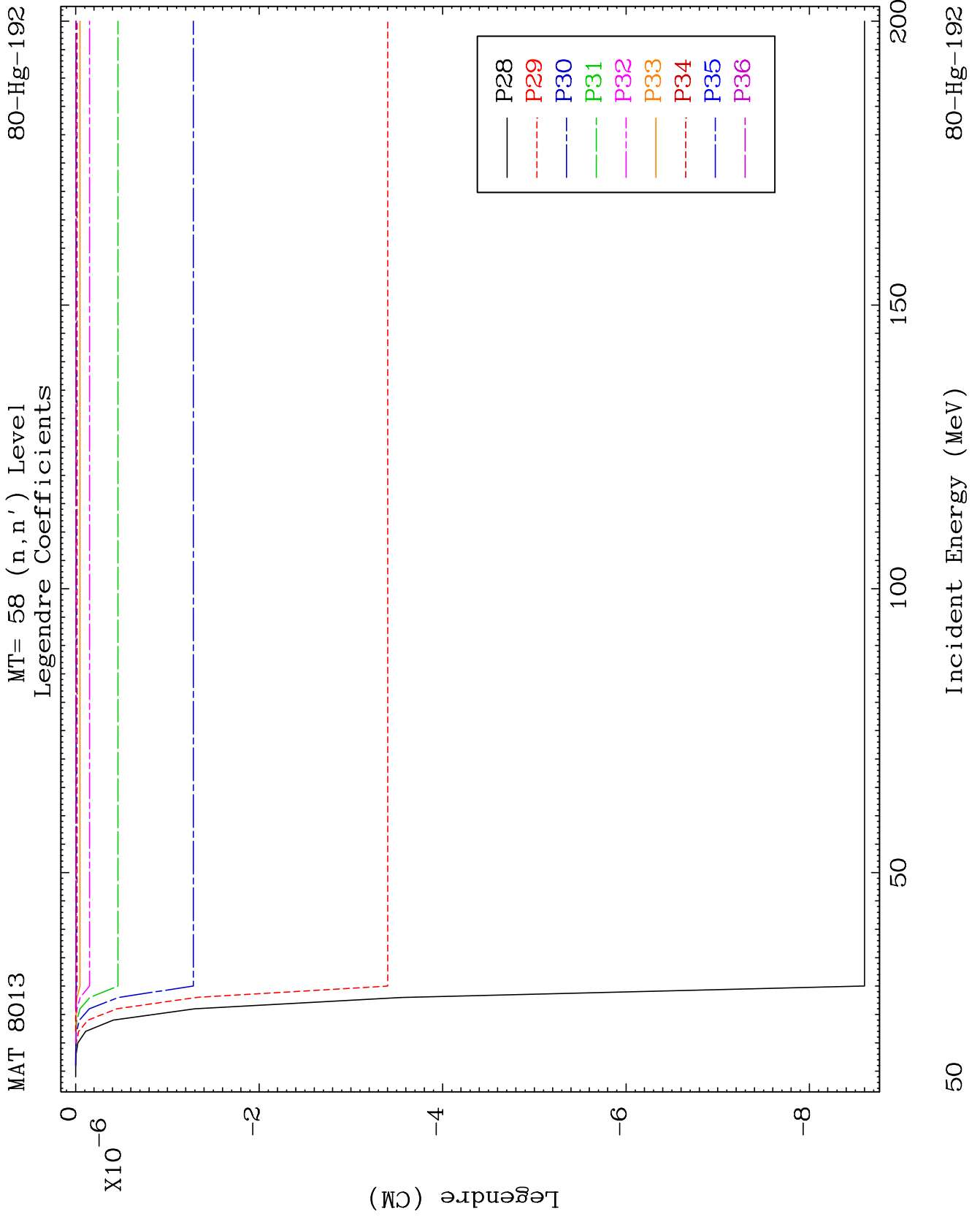


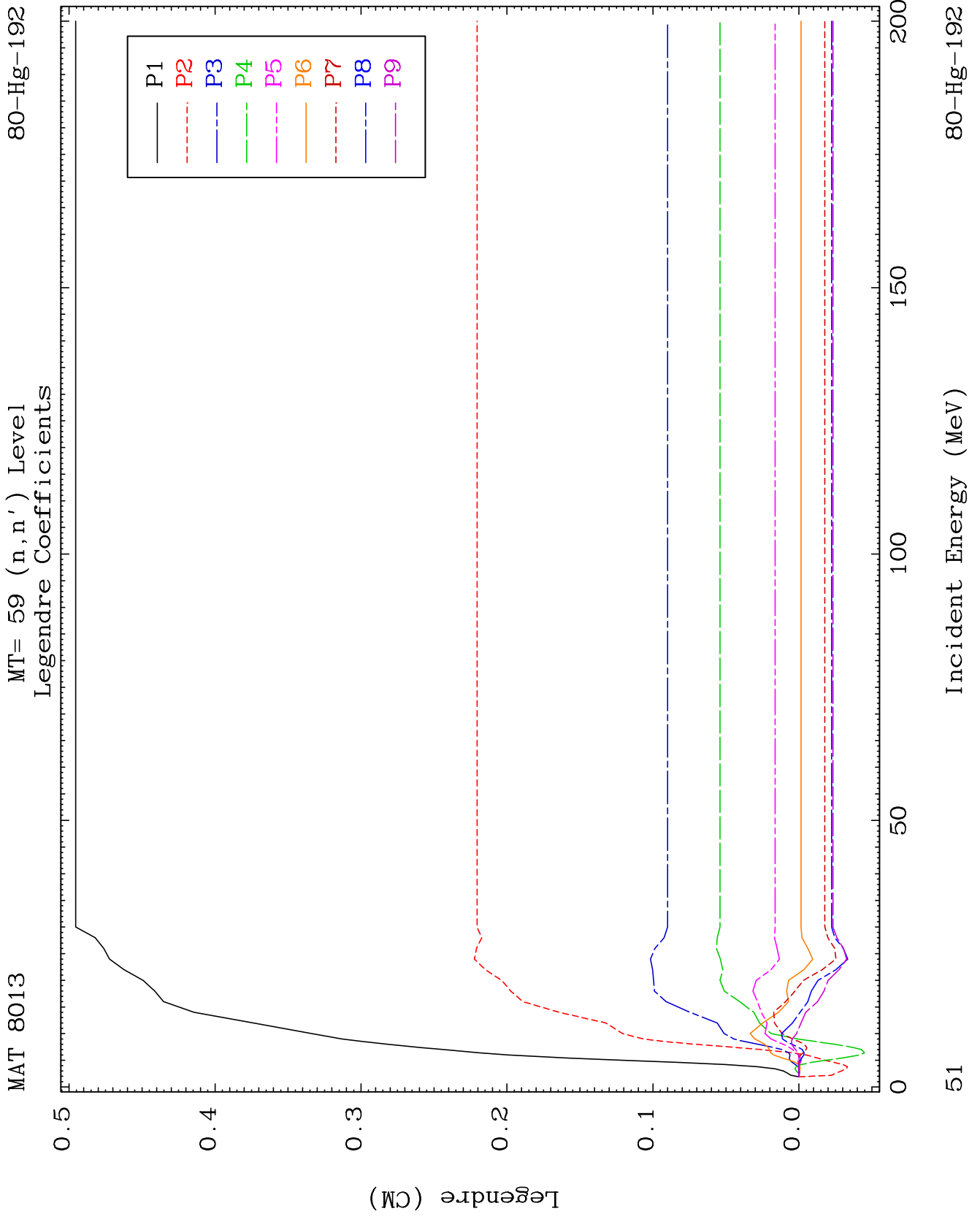
MAT 8013

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

80-Hg-192



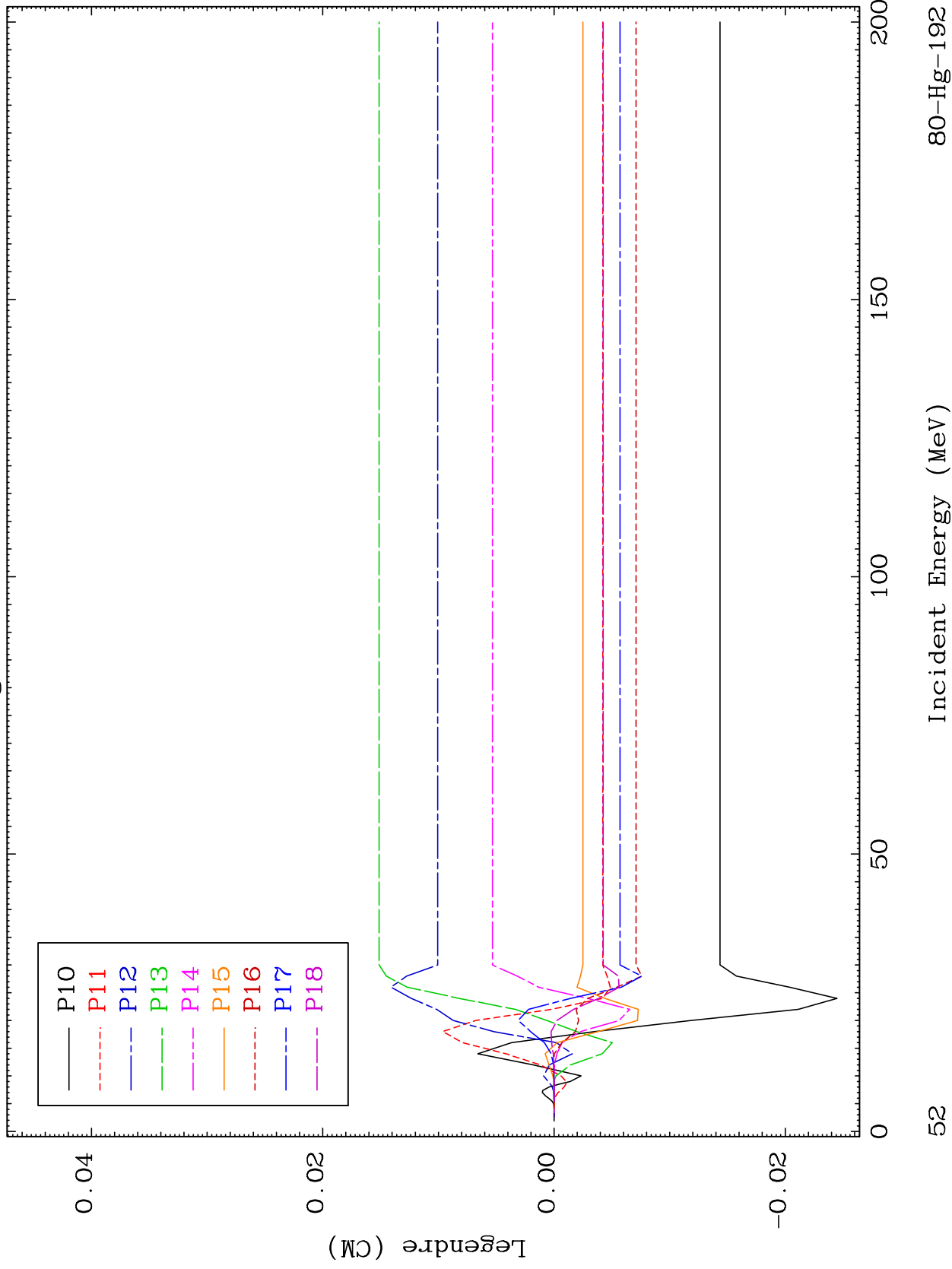




MAT 8013

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

80-Hg-192



80-Hg-192

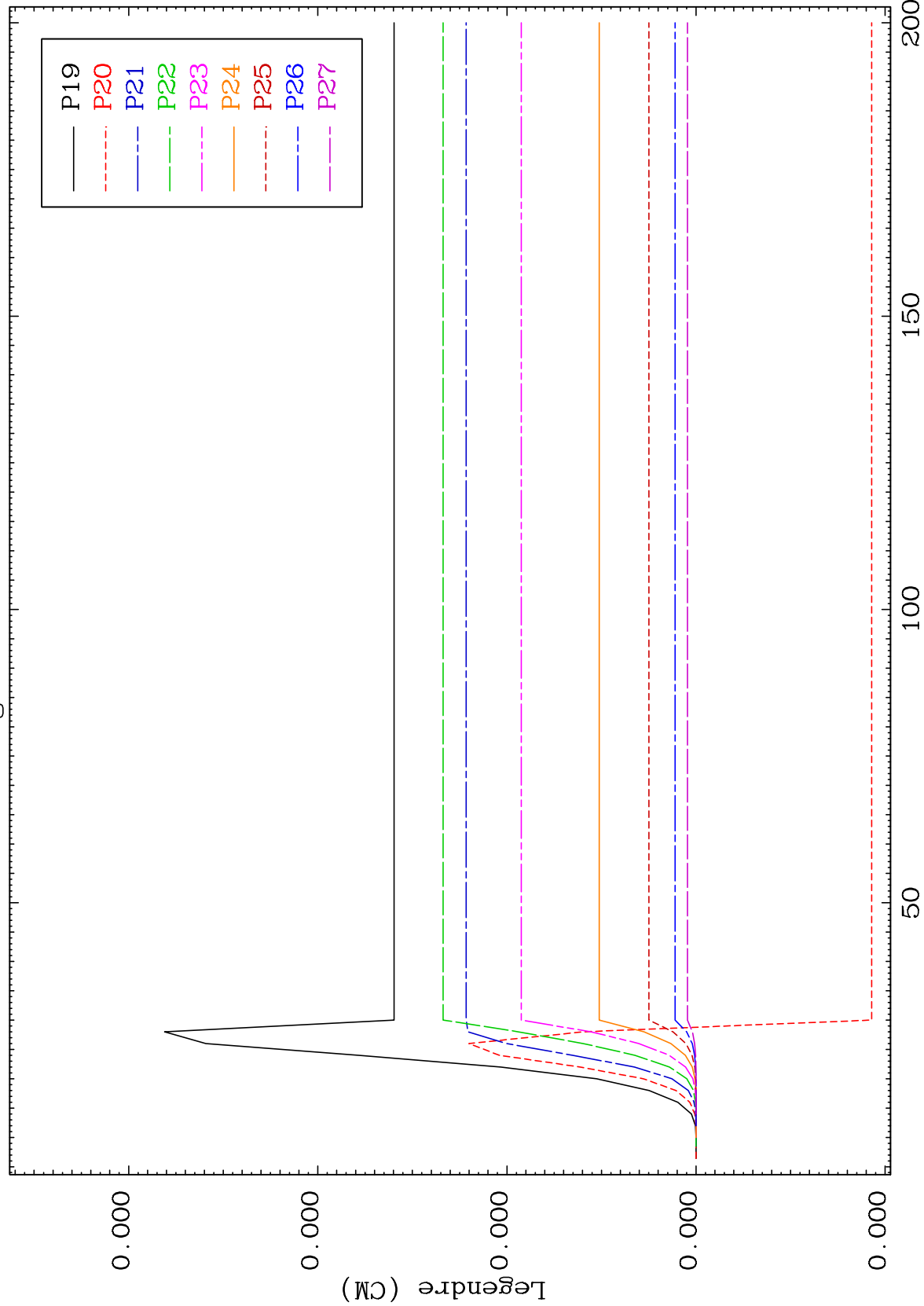
Incident Energy (MeV)

52

MAT 8013

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

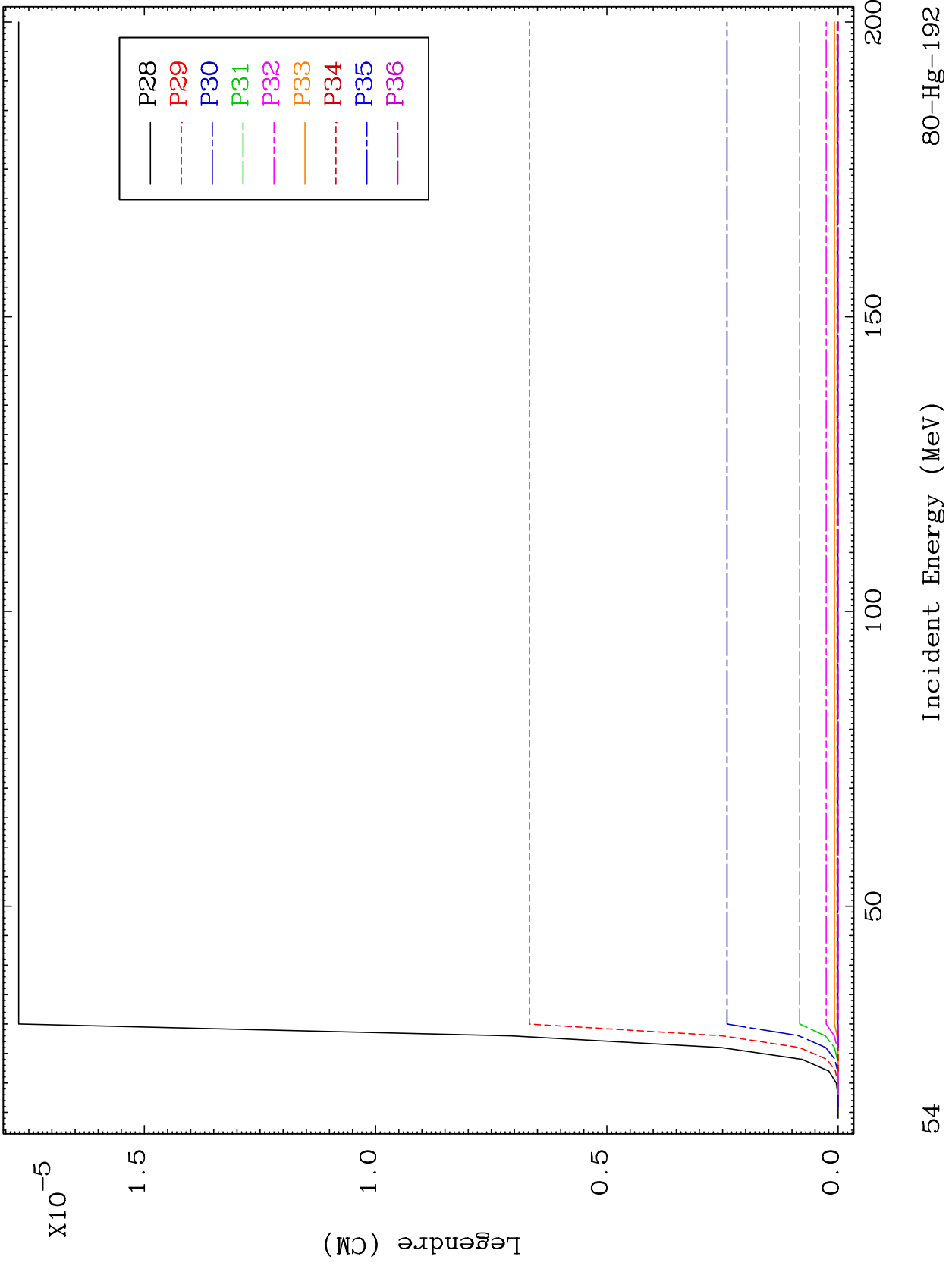
80-Hg-192



MAT 8013

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

80-Hg-192



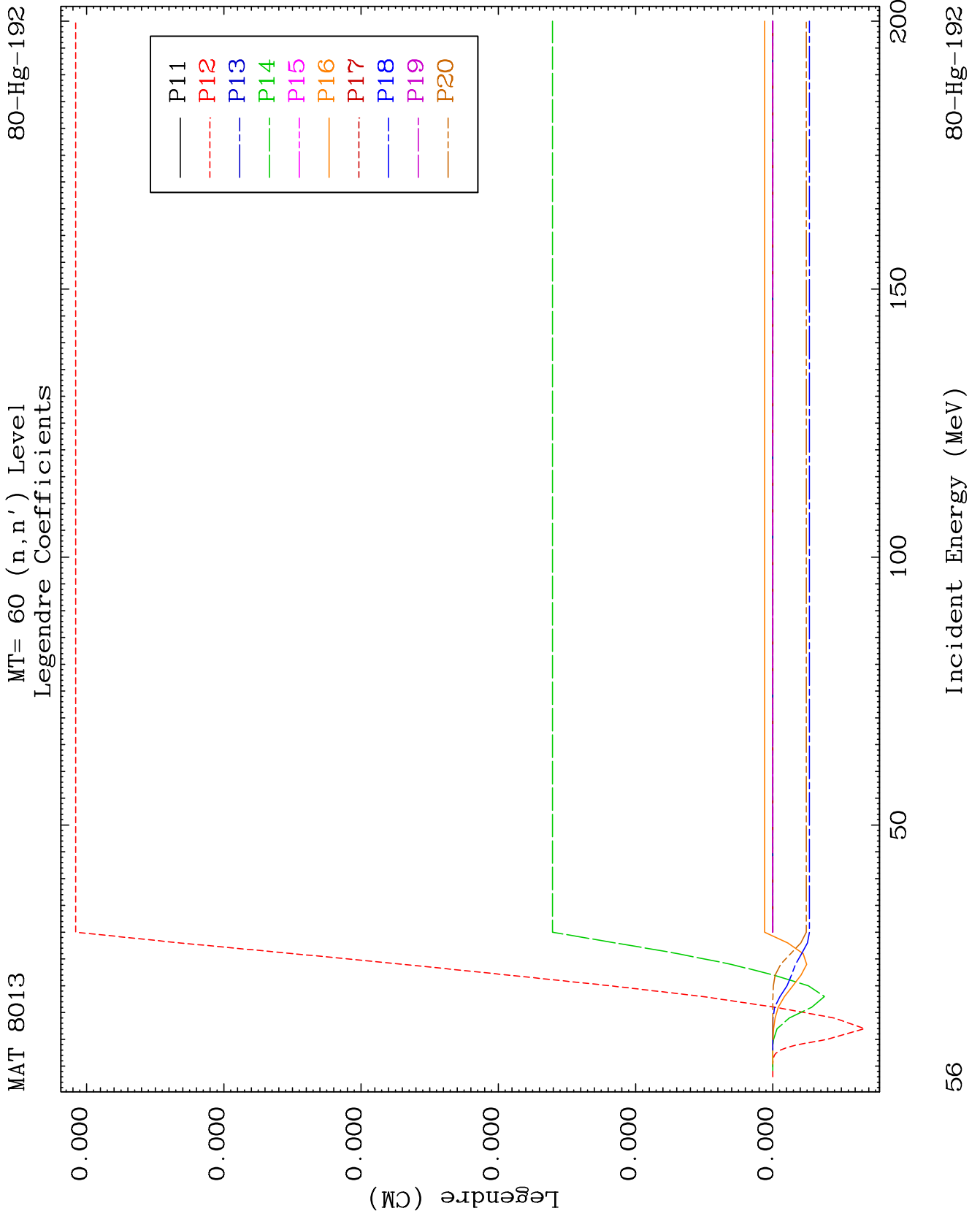
54

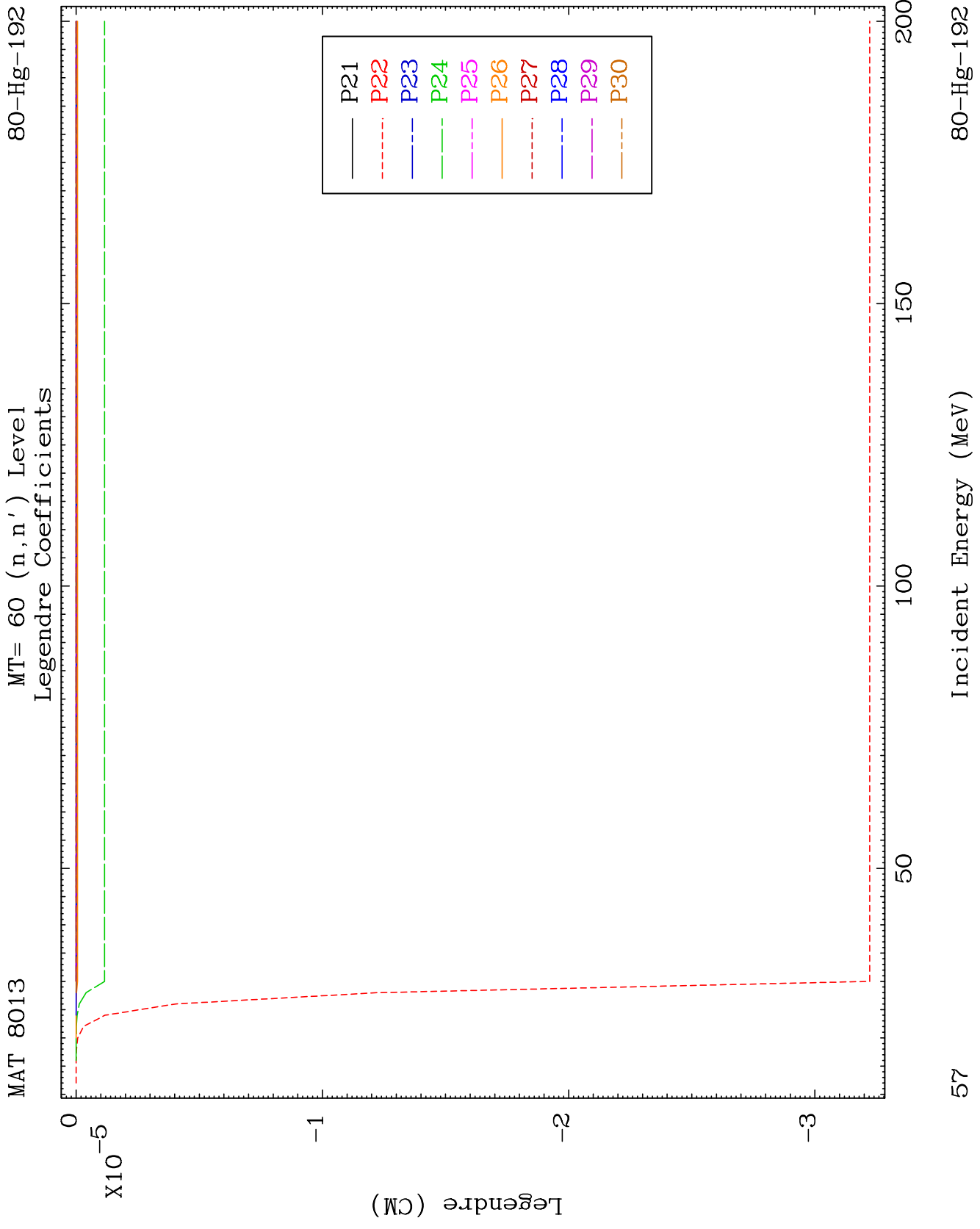
Incident Energy (MeV)

80-Hg-192





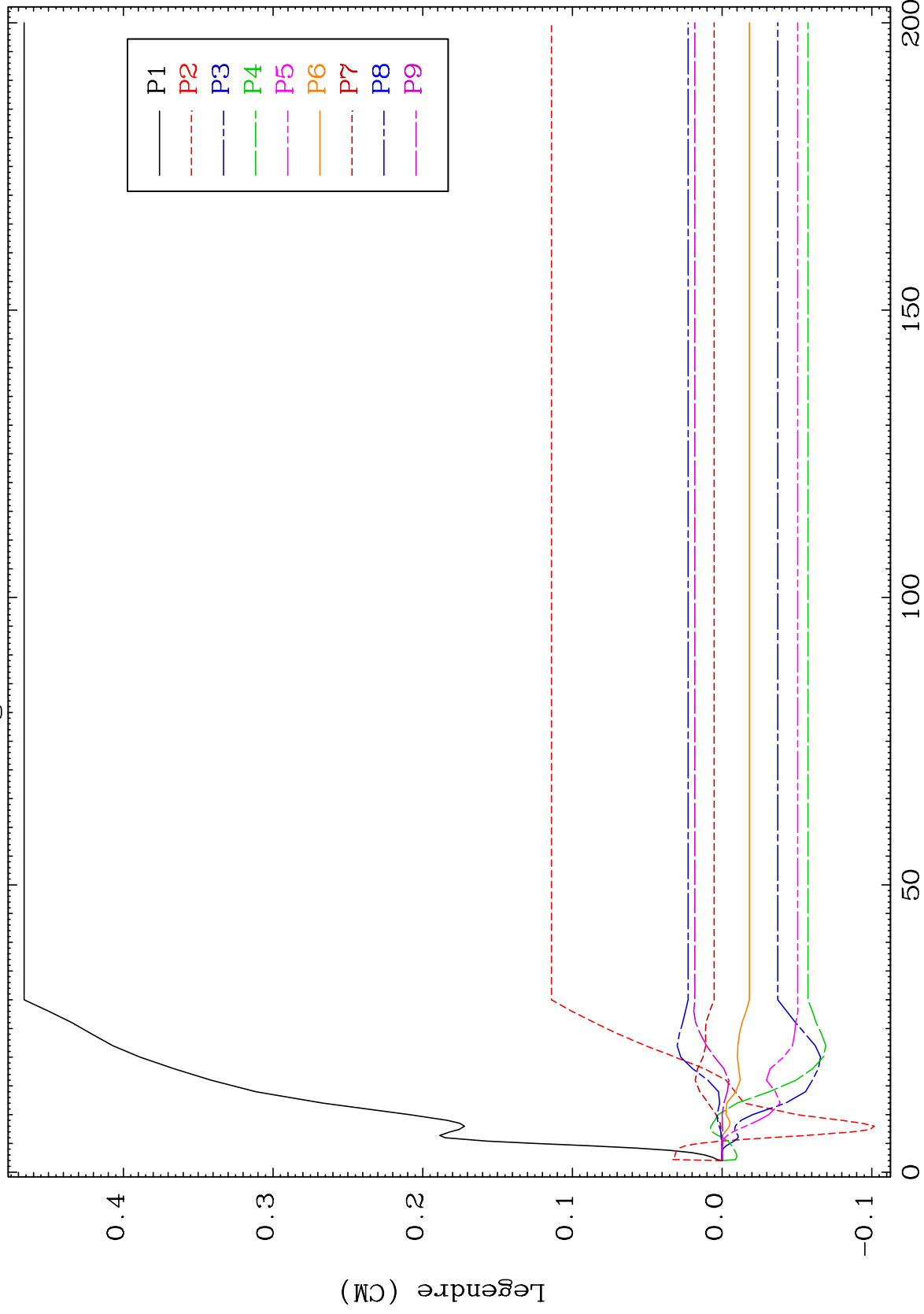




MAT 8013

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

80-Hg-192



58

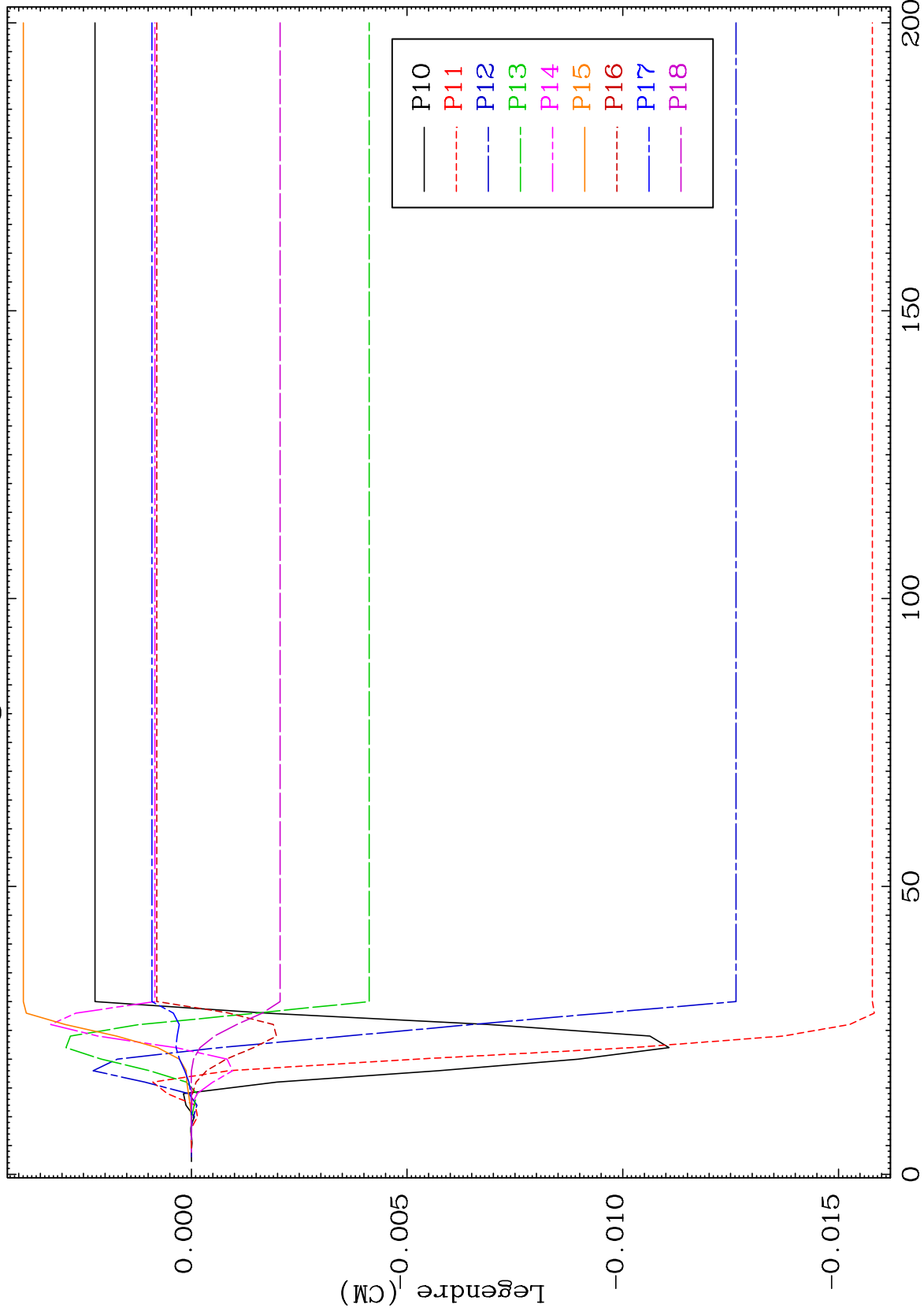
Incident Energy (MeV)

80-Hg-192

MAT 8013

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

80-Hg-192



59

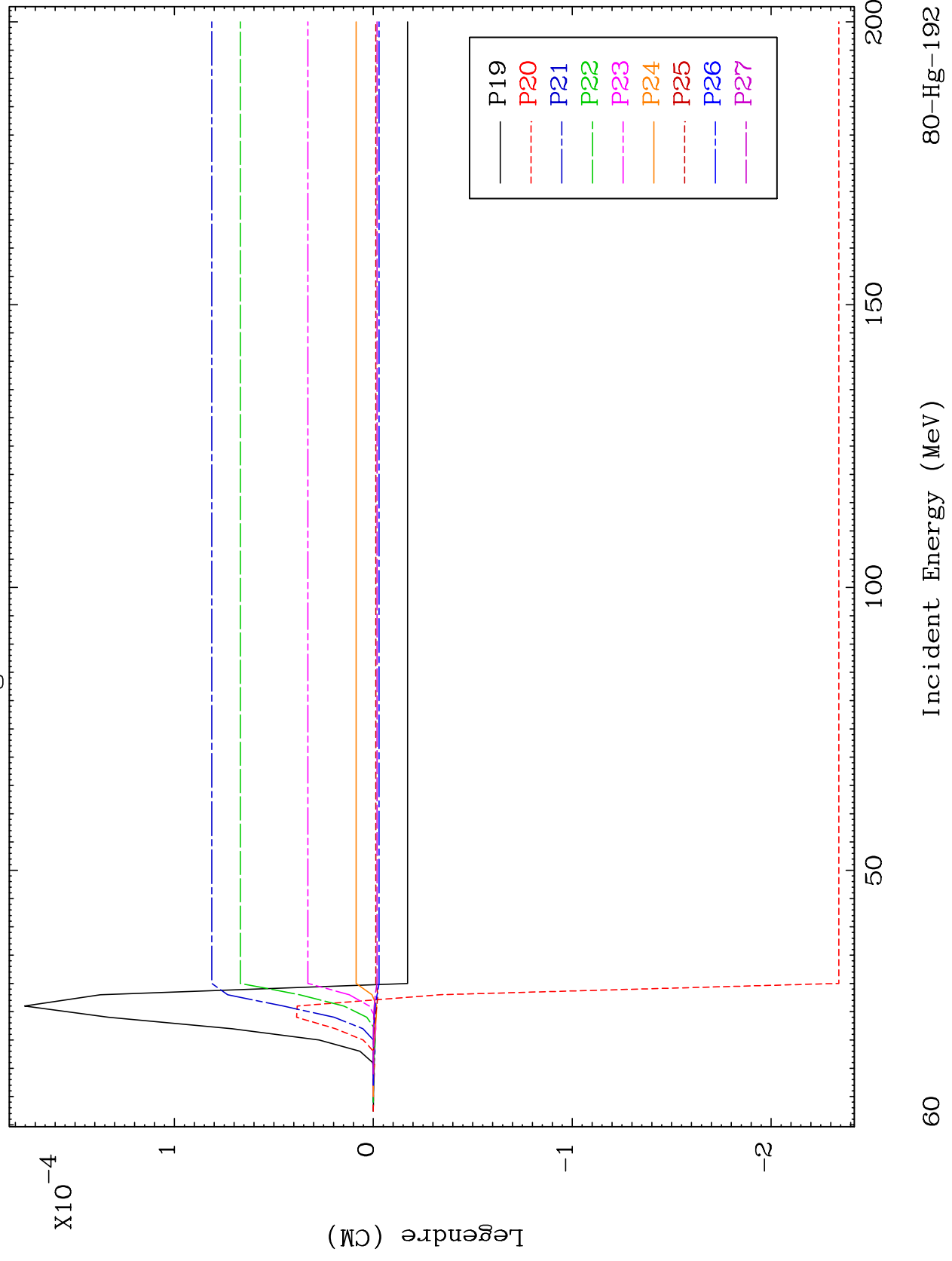
Incident Energy (MeV)

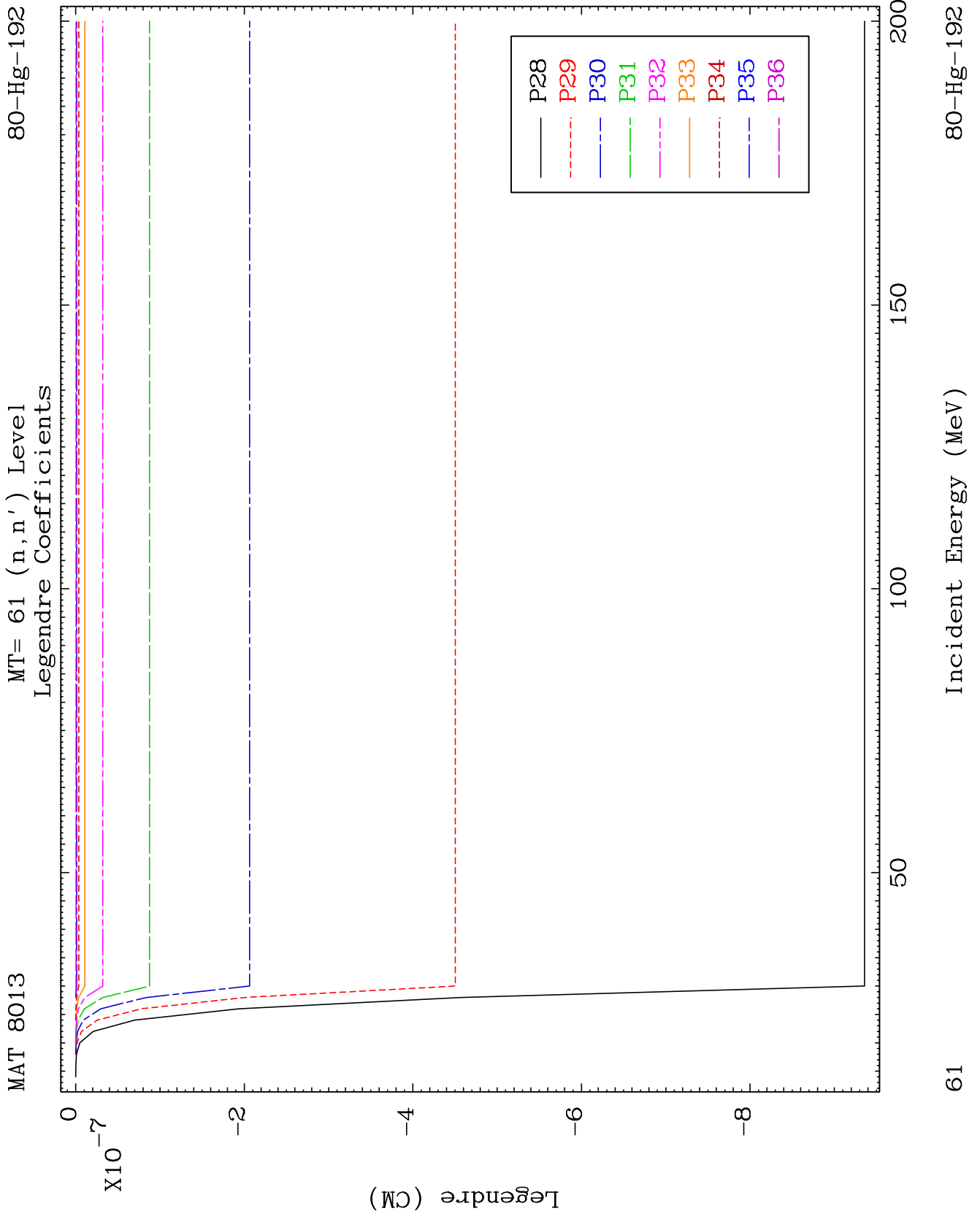
80-Hg-192

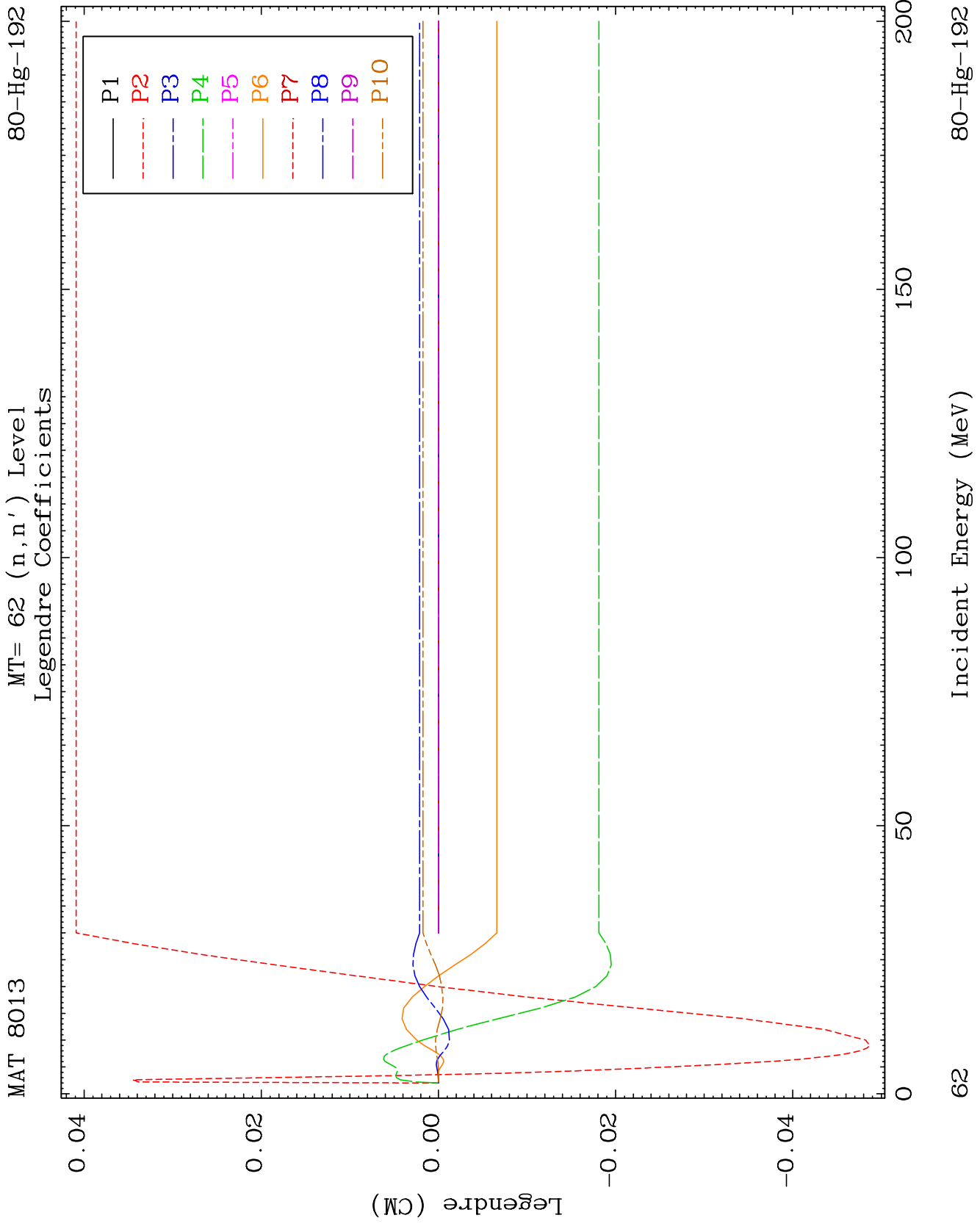
MAT 8013

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

80-Hg-192



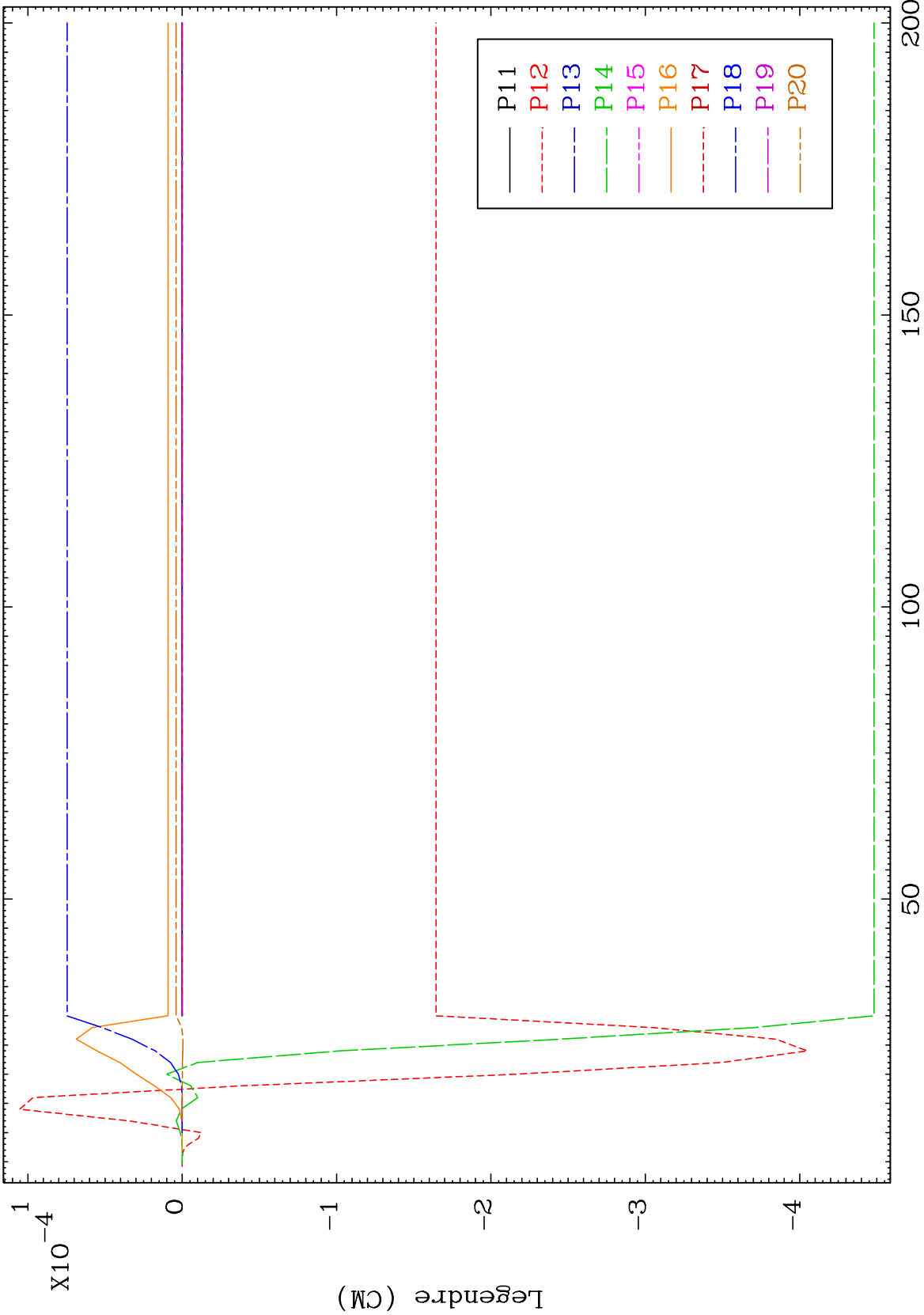




MAT 8013

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

80-Hg-192



63

80-Hg-192

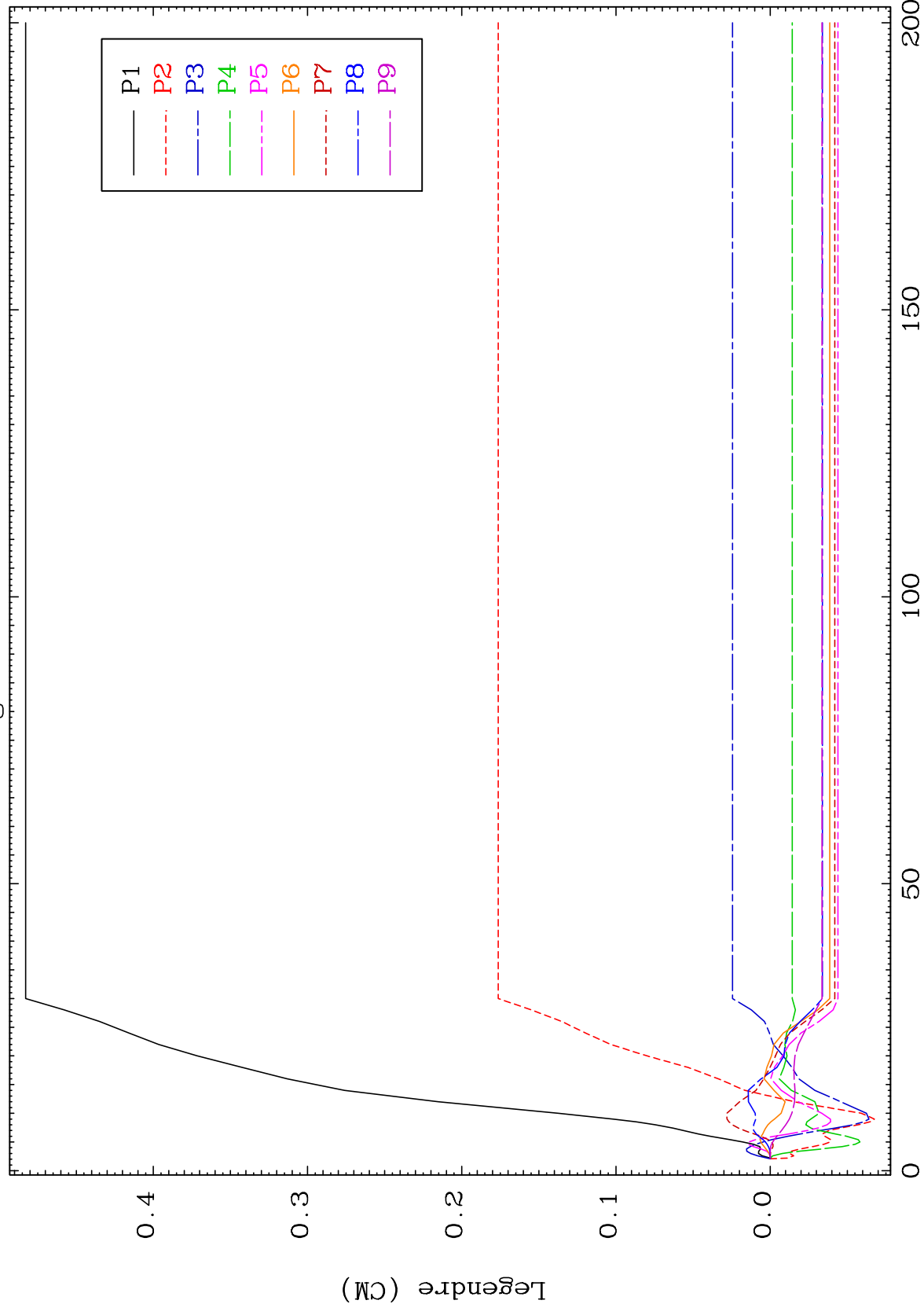




MAT 8013

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

80-Hg-192



80-Hg-192

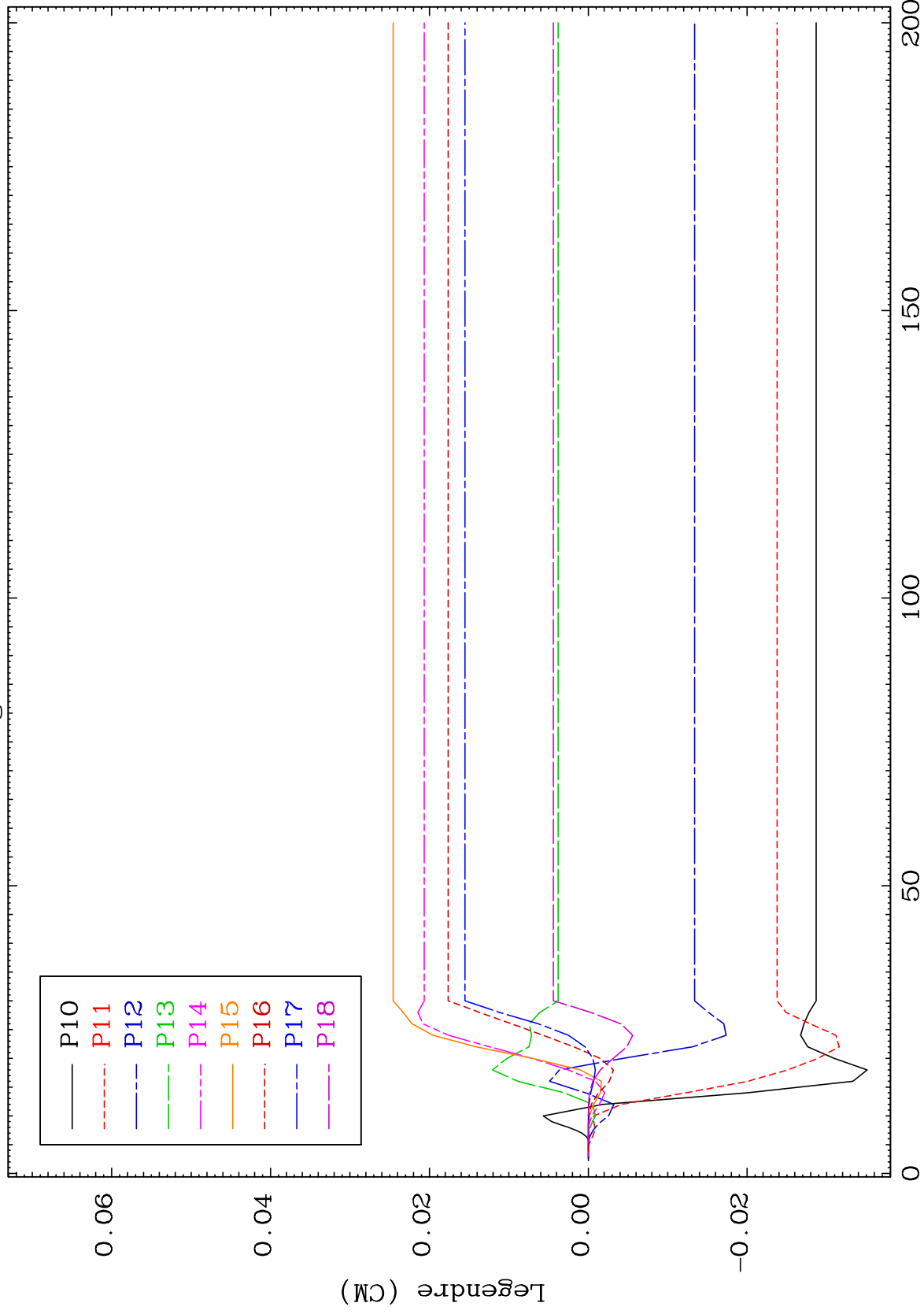
Incident Energy (MeV)

65

MAT 8013

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

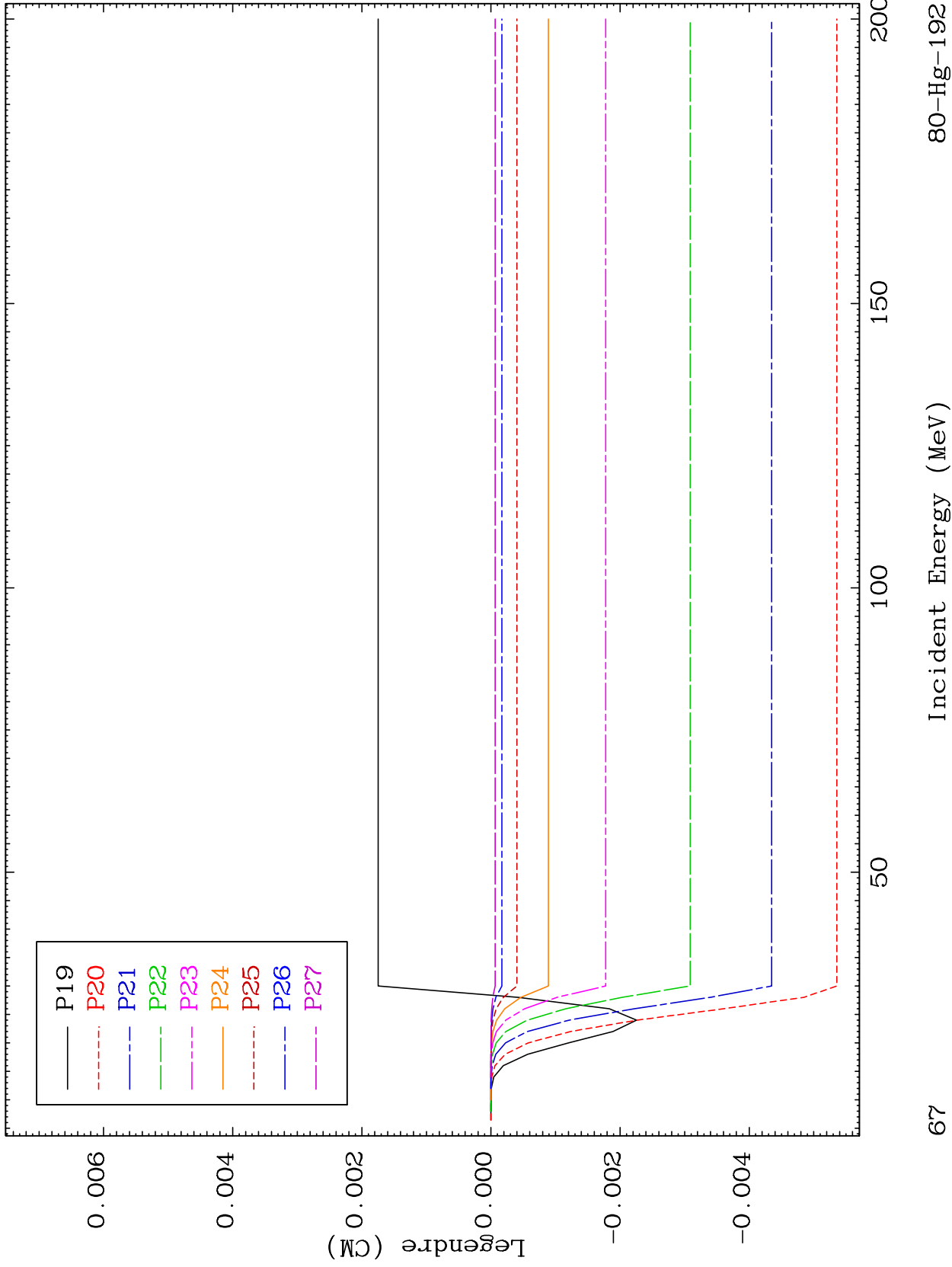
80-Hg-192

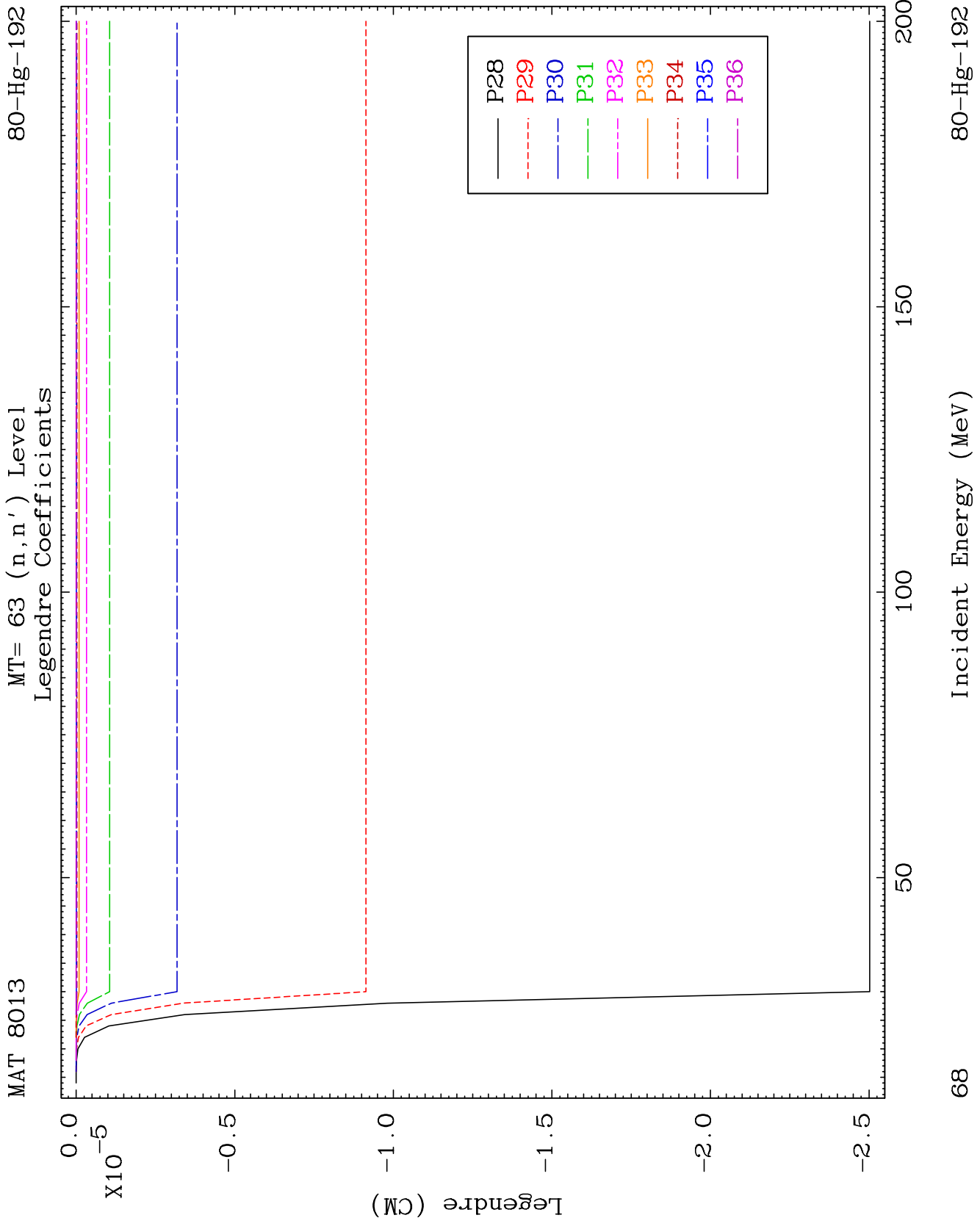


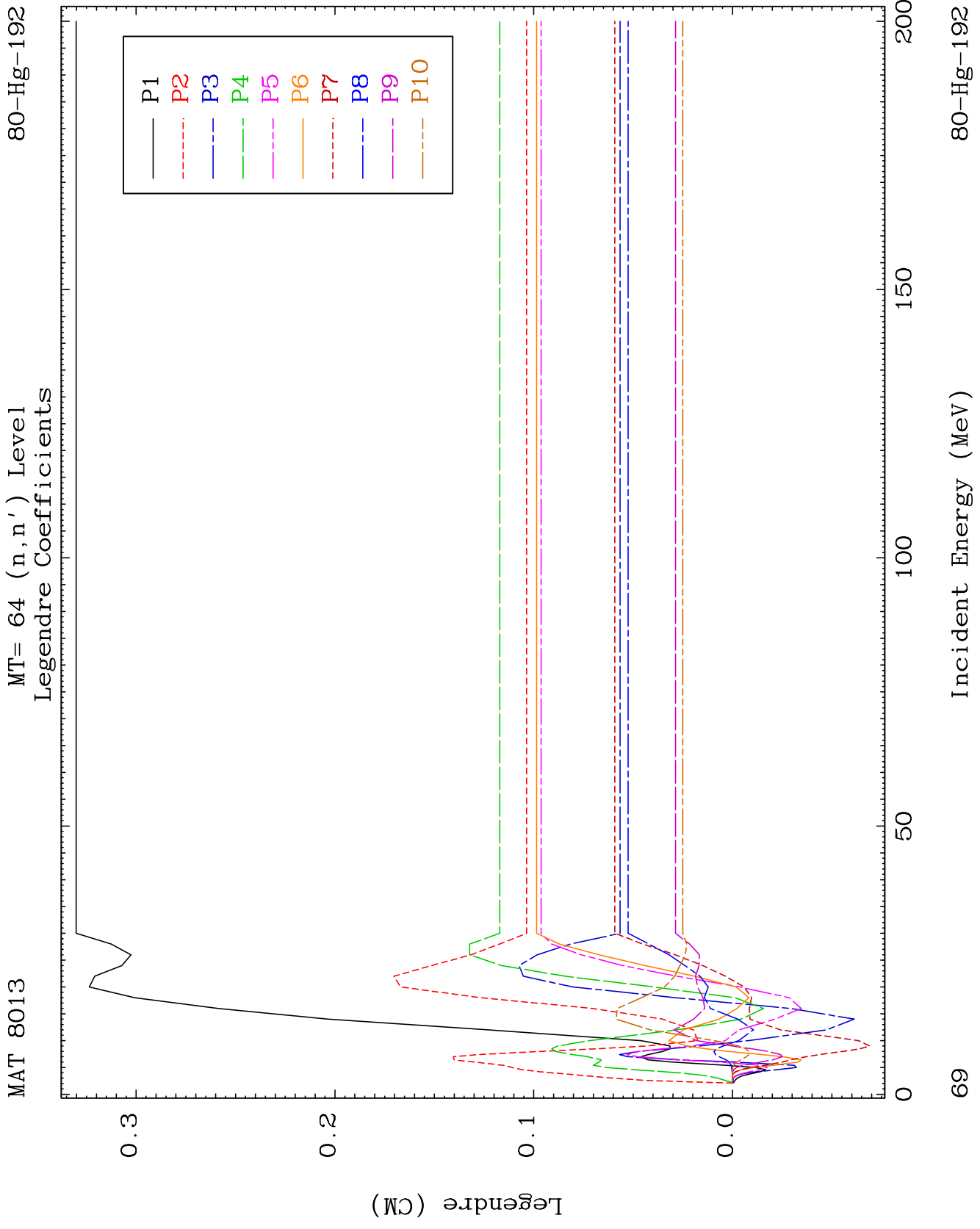
66

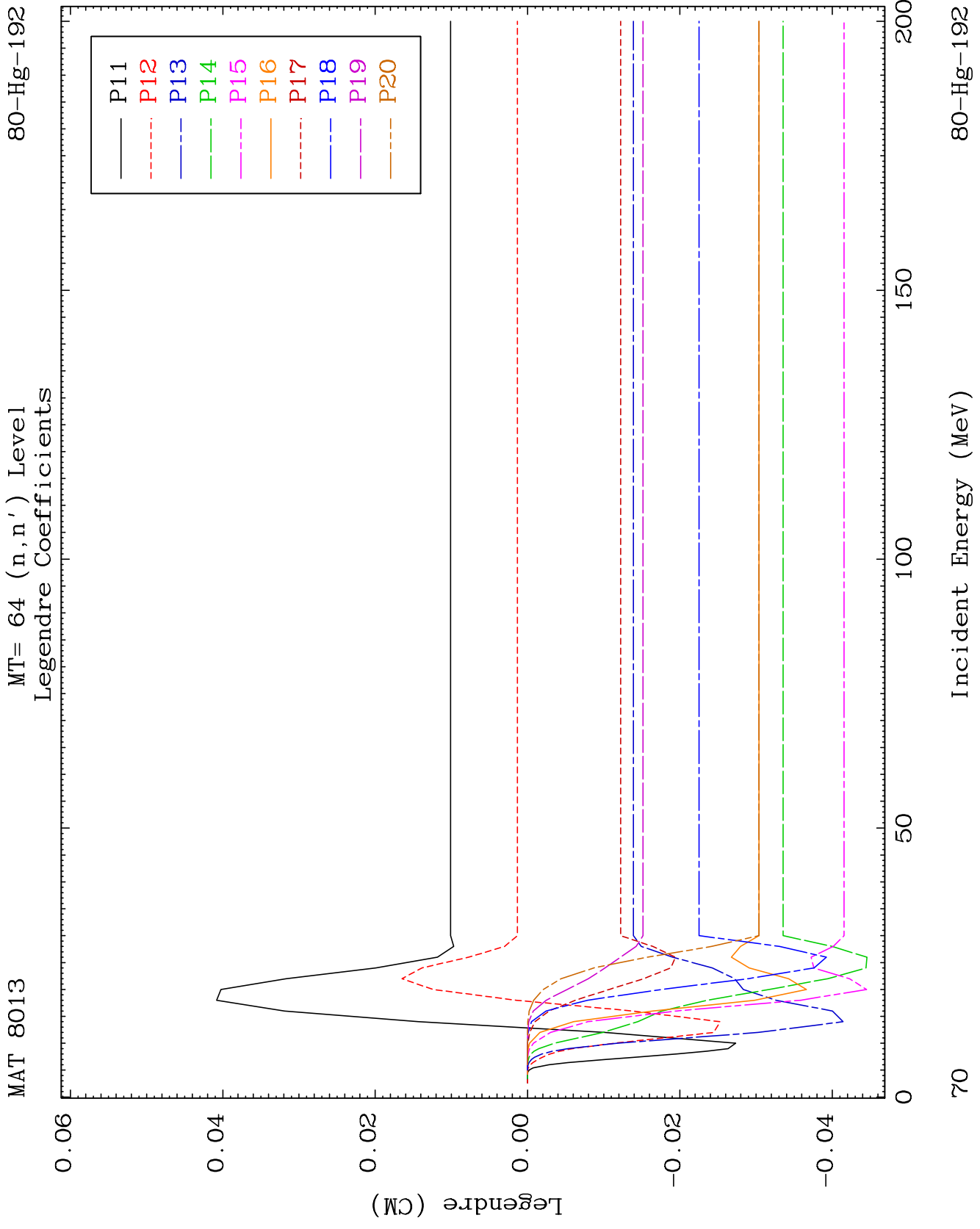
Incident Energy (MeV)

80-Hg-192



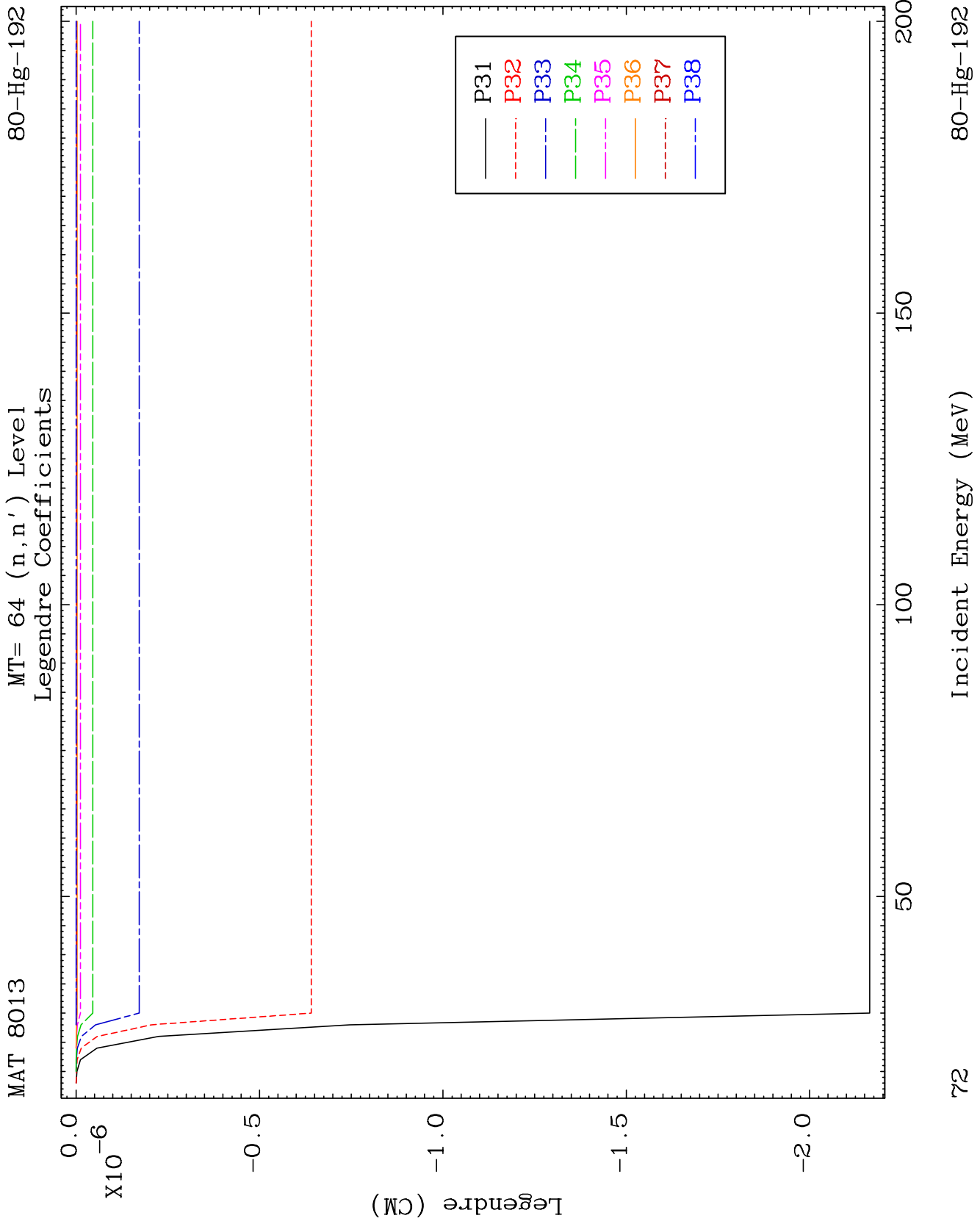


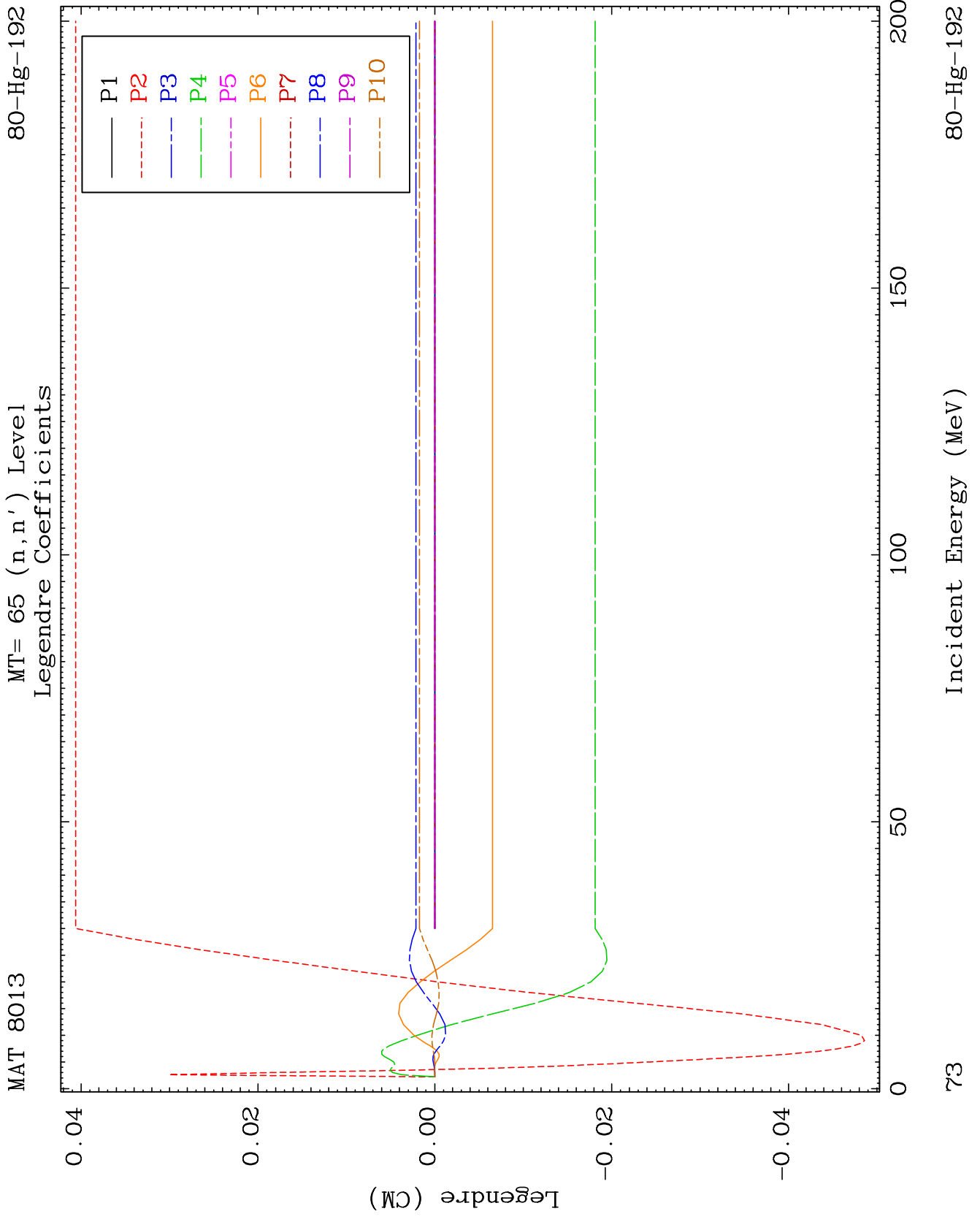








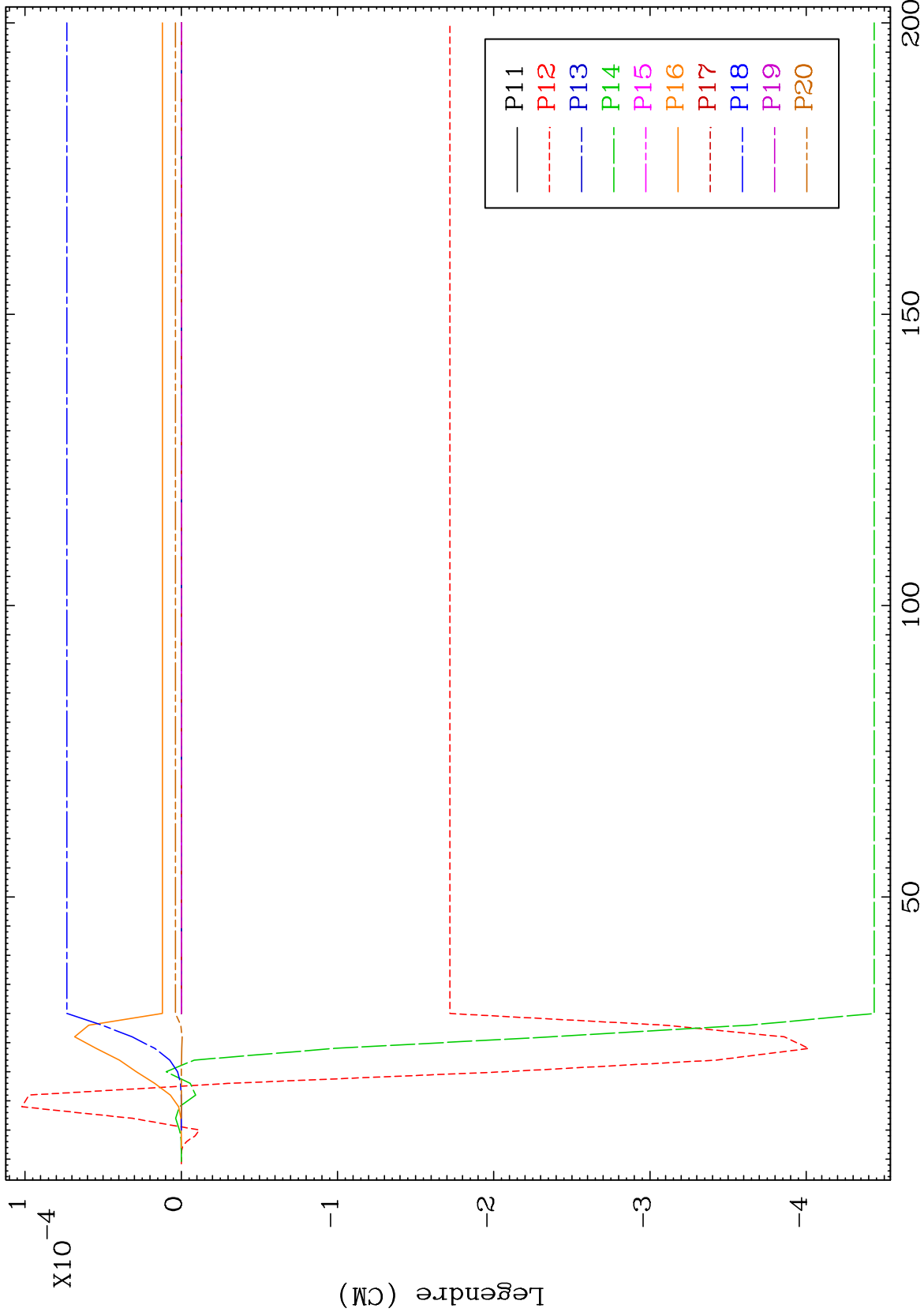




MAT 8013

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

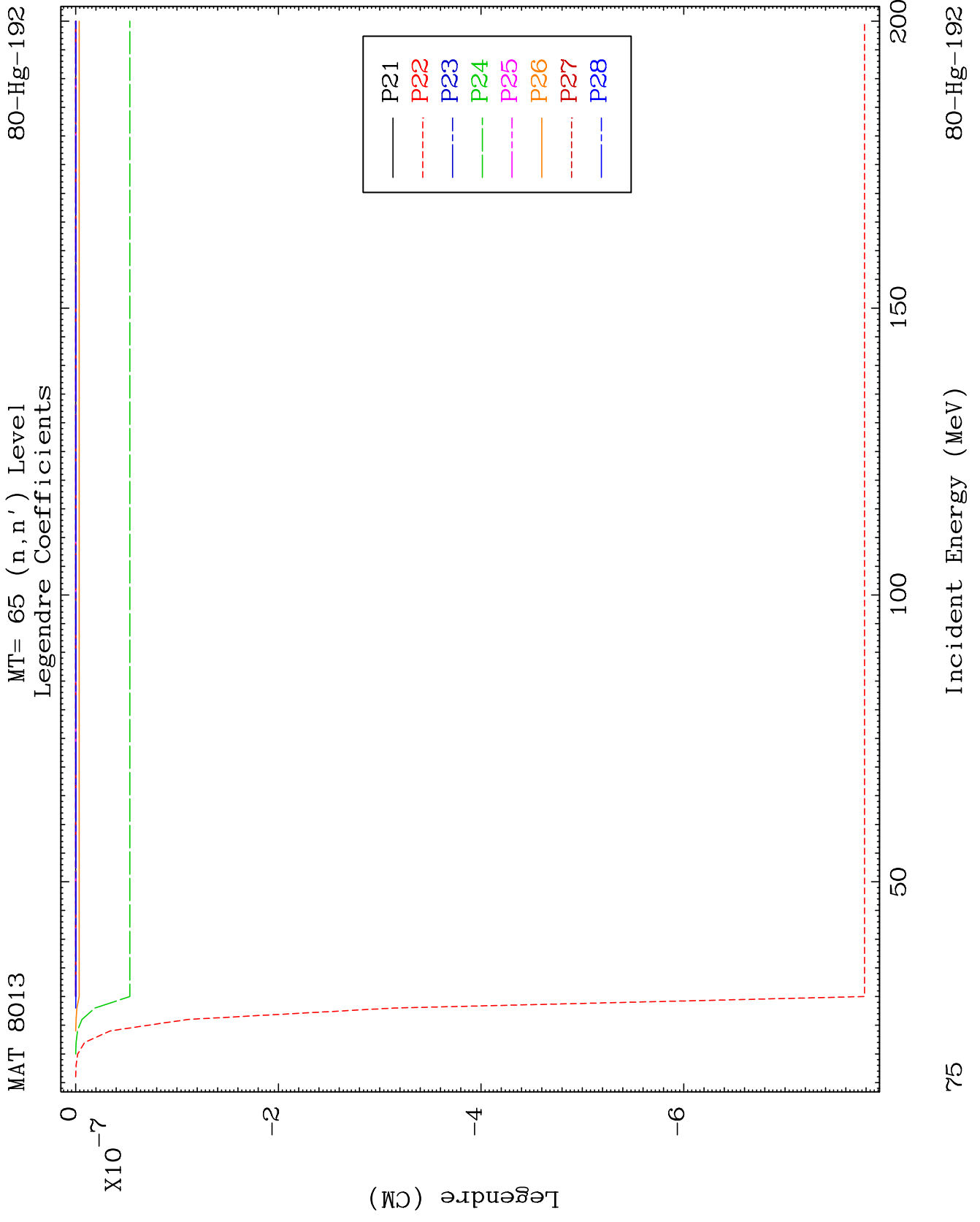
80-Hg-192



74

Incident Energy (MeV)

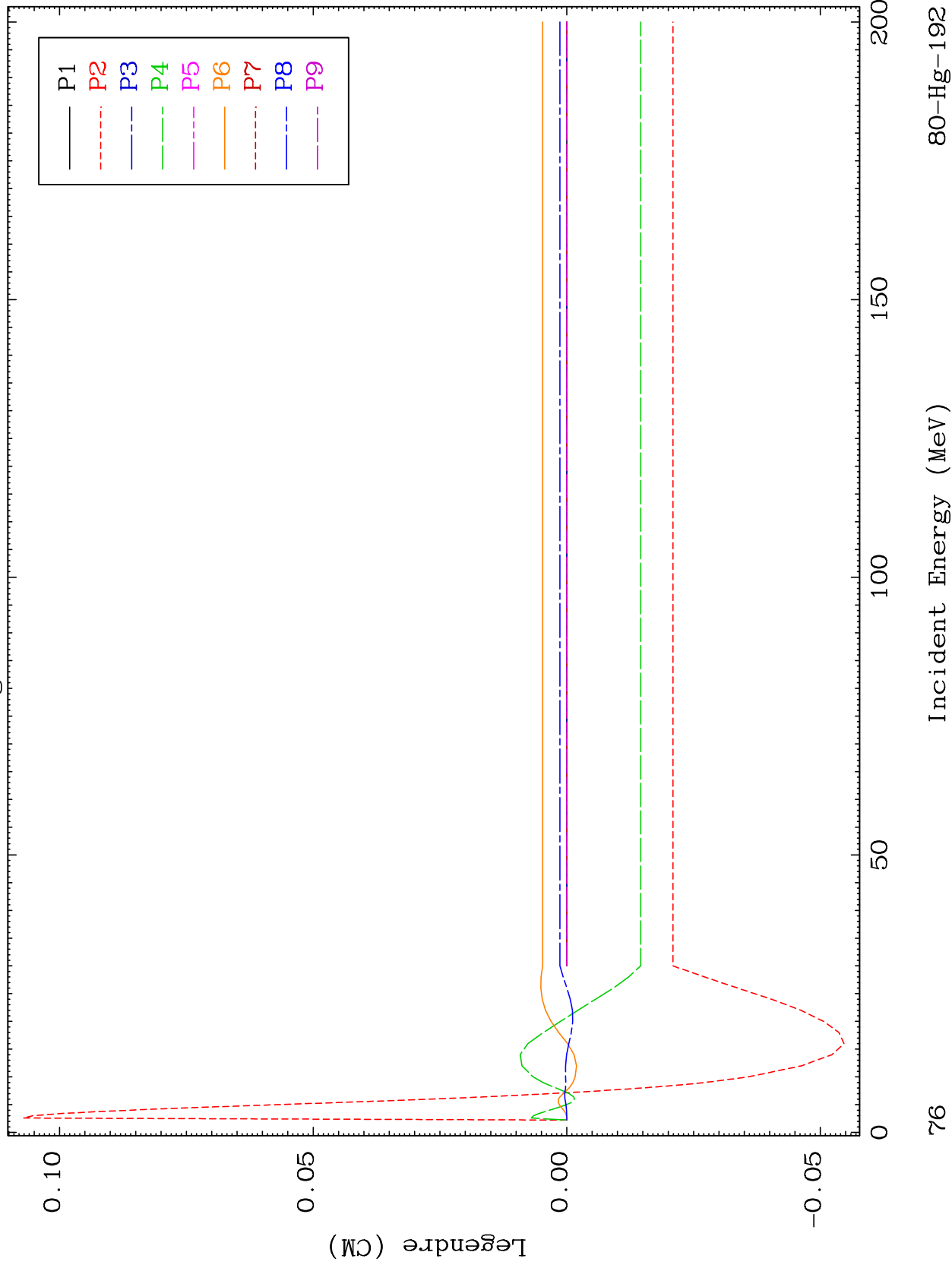
80-Hg-192



MAT 8013

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

80-Hg-192



80-Hg-192

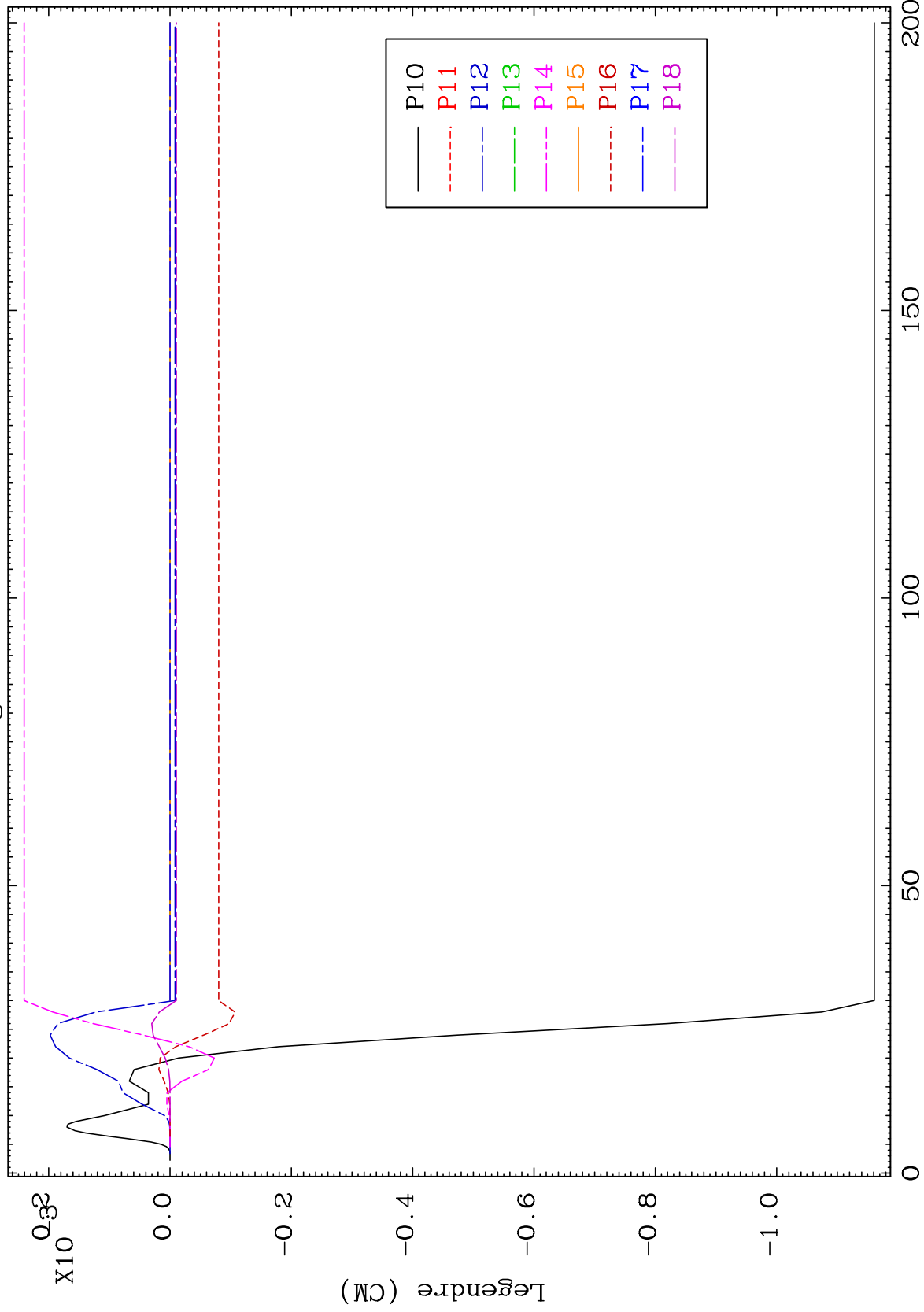
Incident Energy (MeV)

76

MAT 8013

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

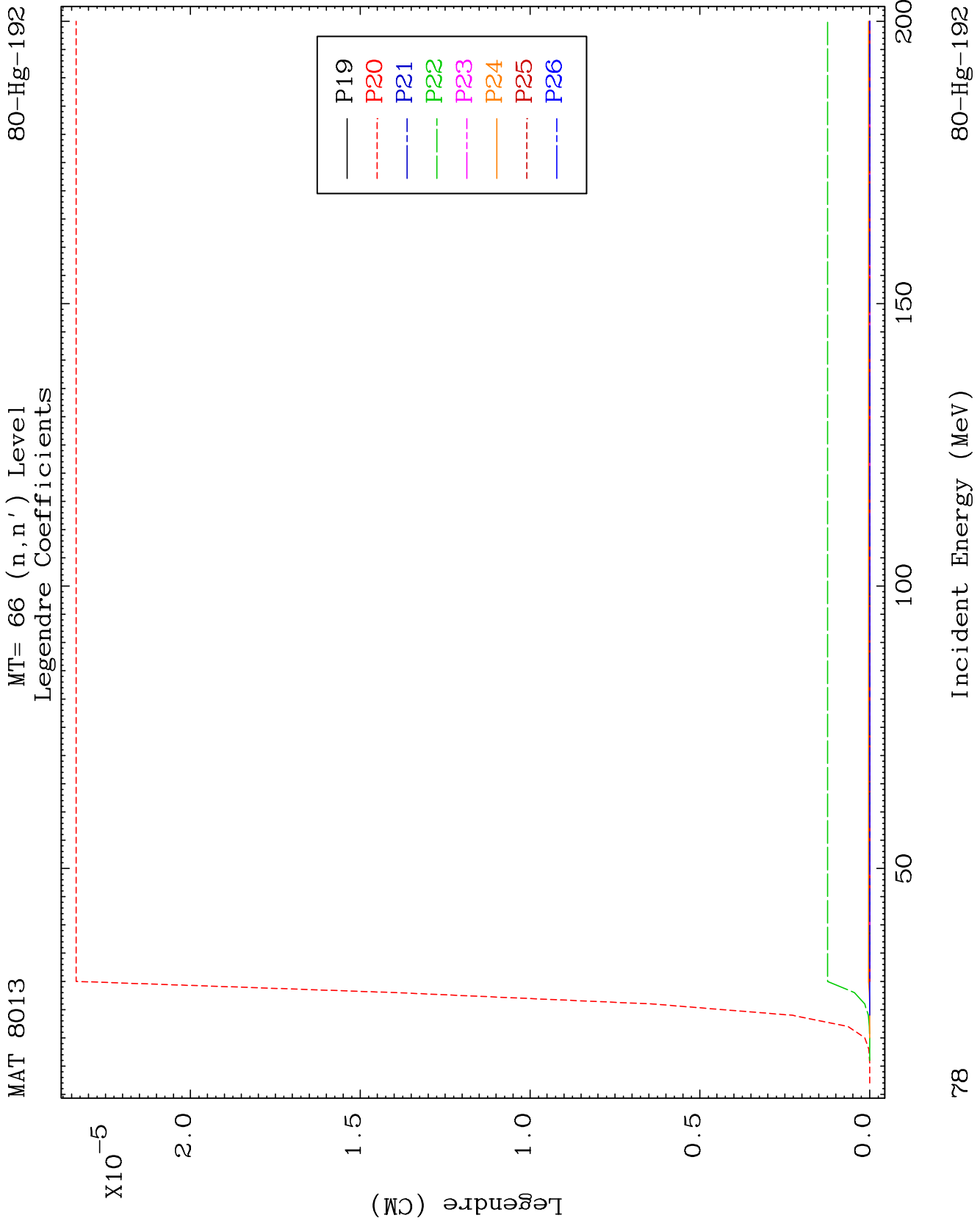
80-Hg-192



77

Incident Energy (MeV)

80-Hg-192



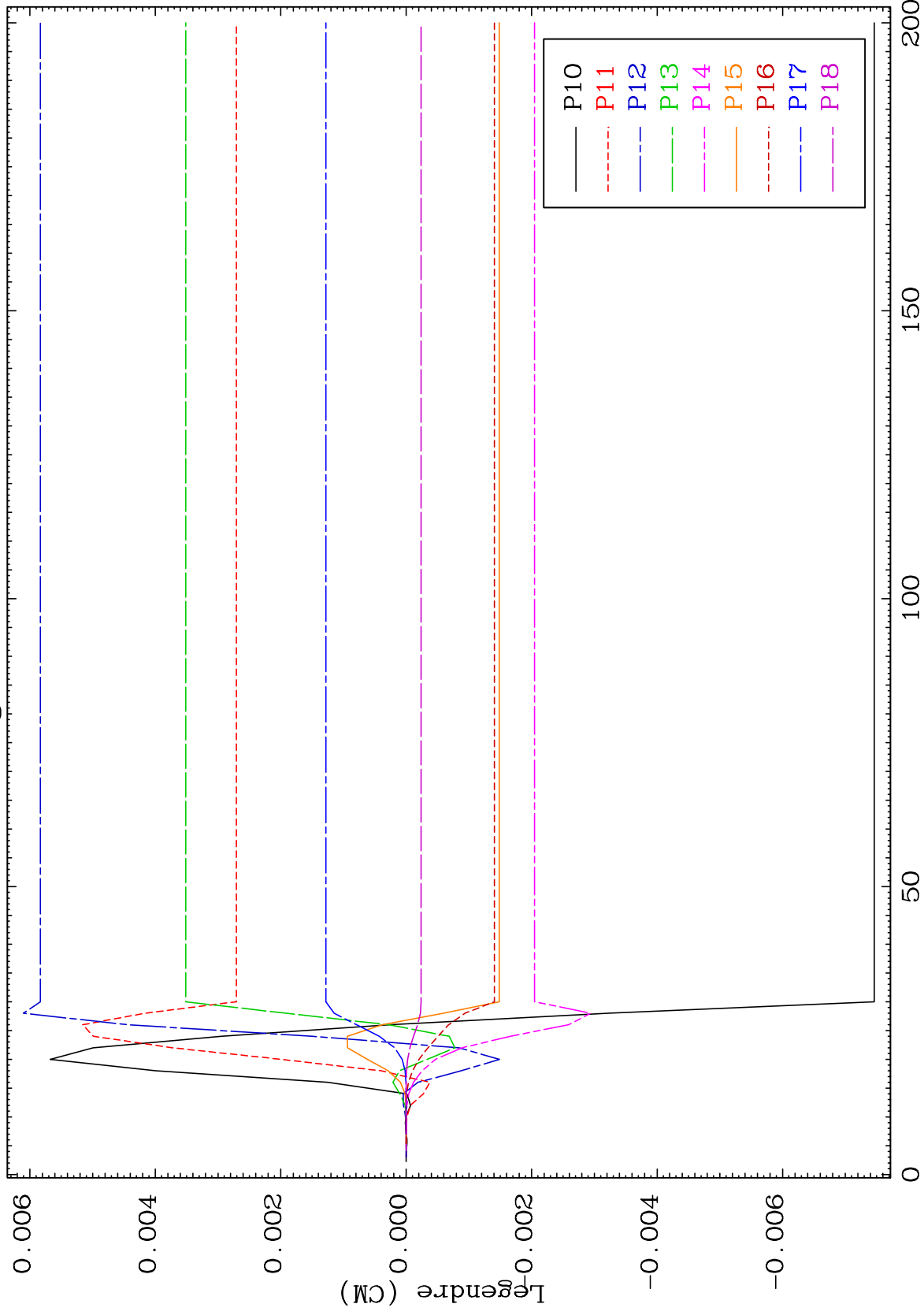




MAT 8013

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

80-Hg-192



80

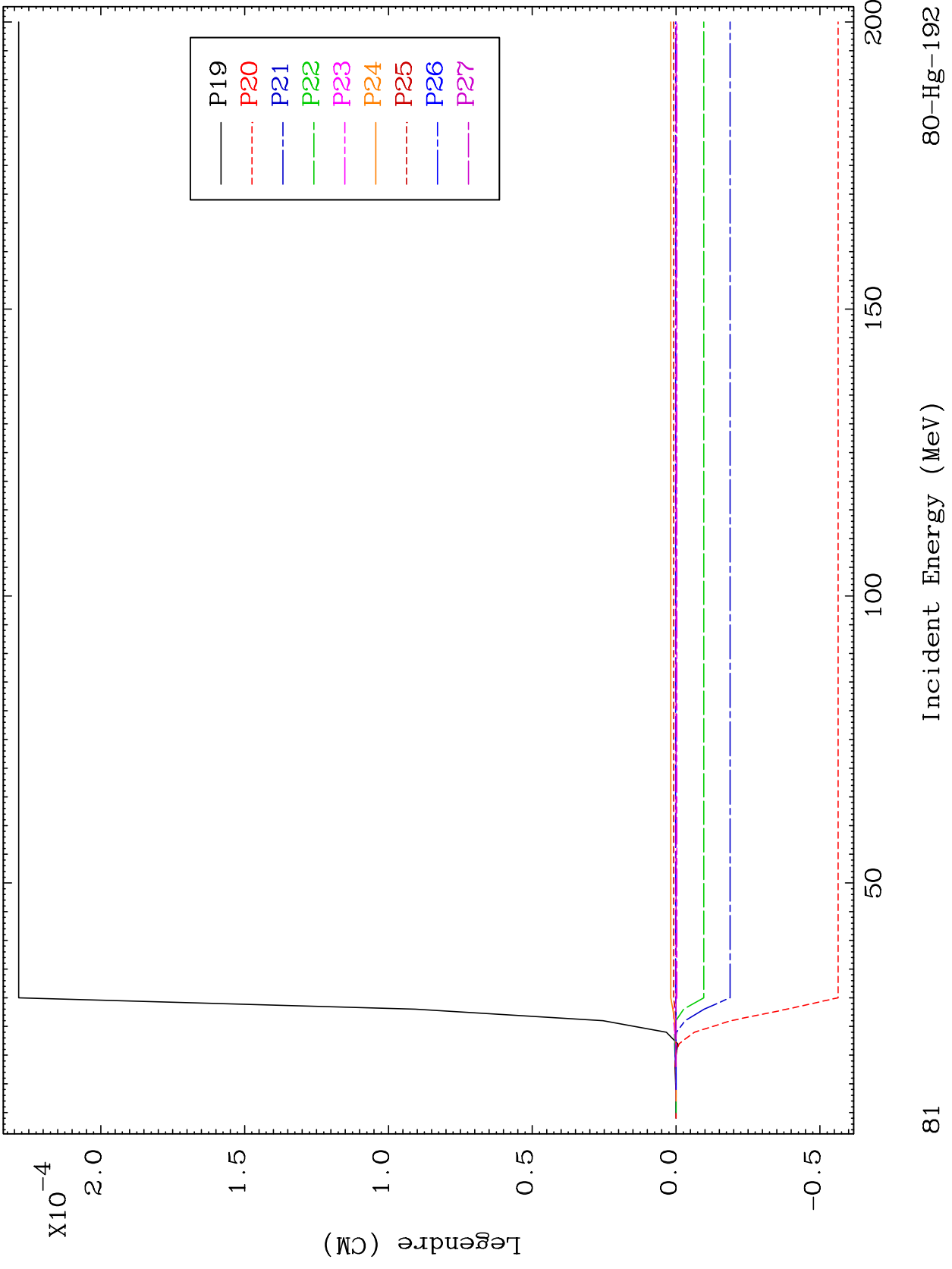
Incident Energy (MeV)

80-Hg-192

MAT 8013

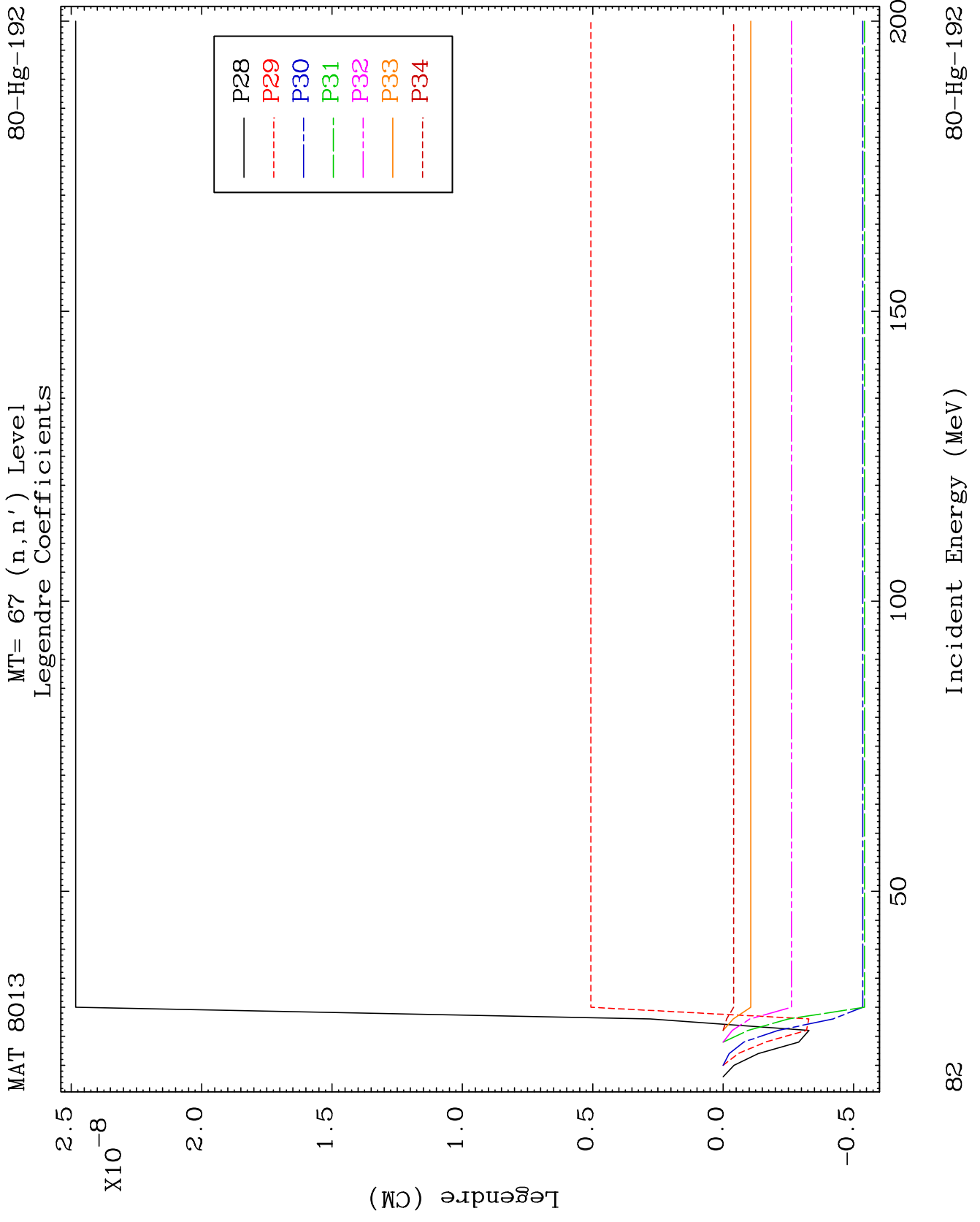
MT= 67 (n,n') Level  
Legendre Coefficients

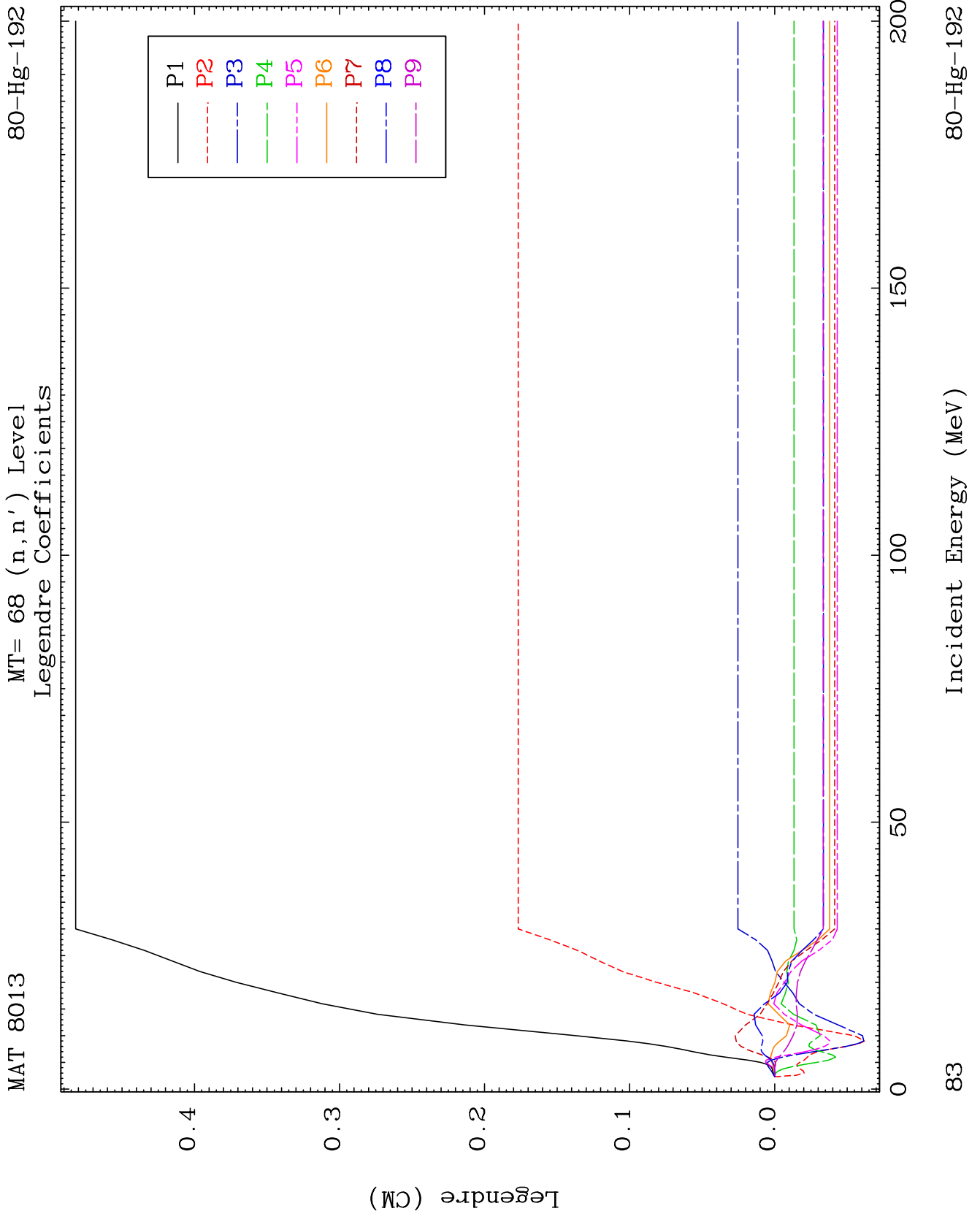
80-Hg-192



81

80-Hg-192

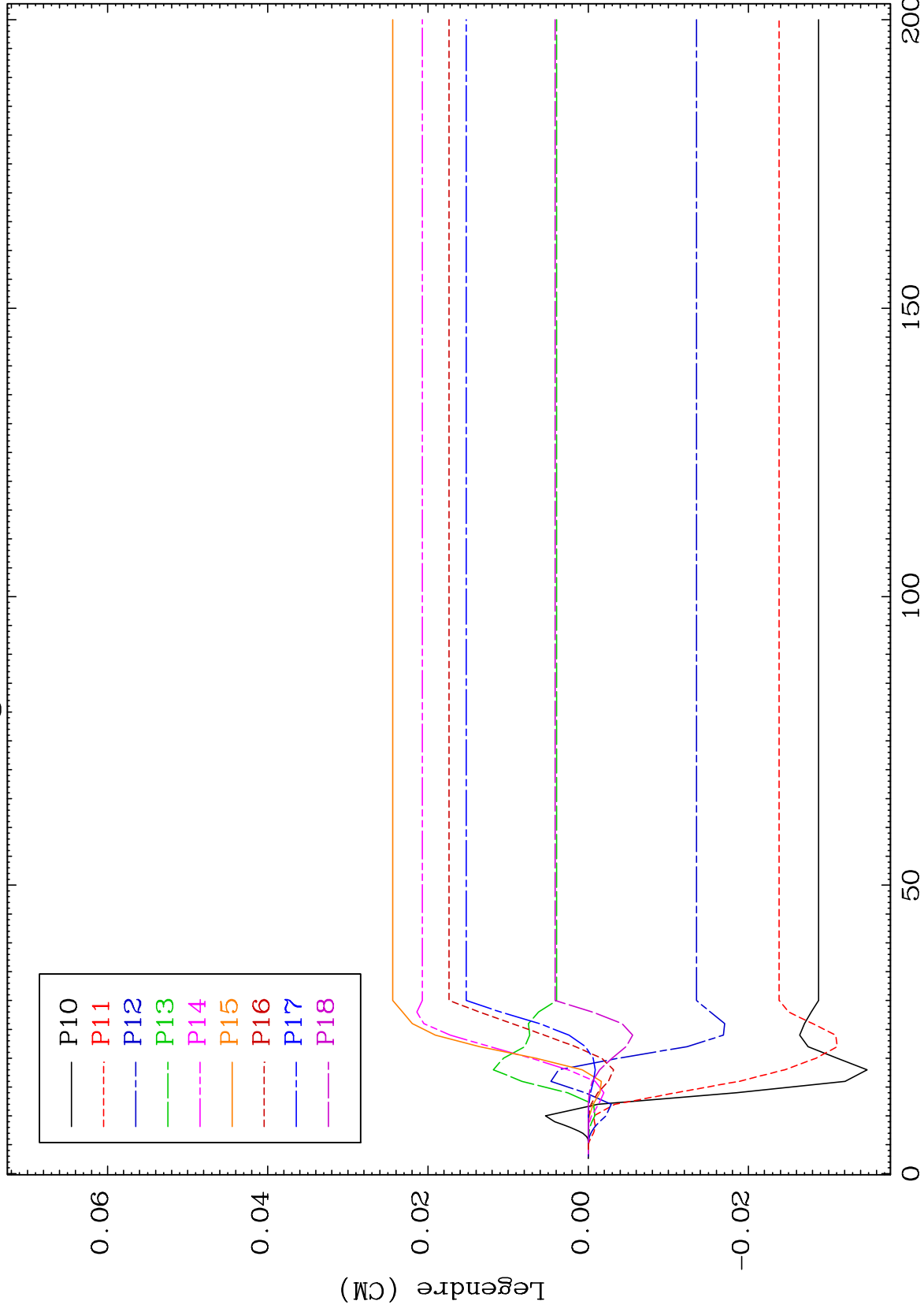




MAT 8013

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

80-Hg-192



84

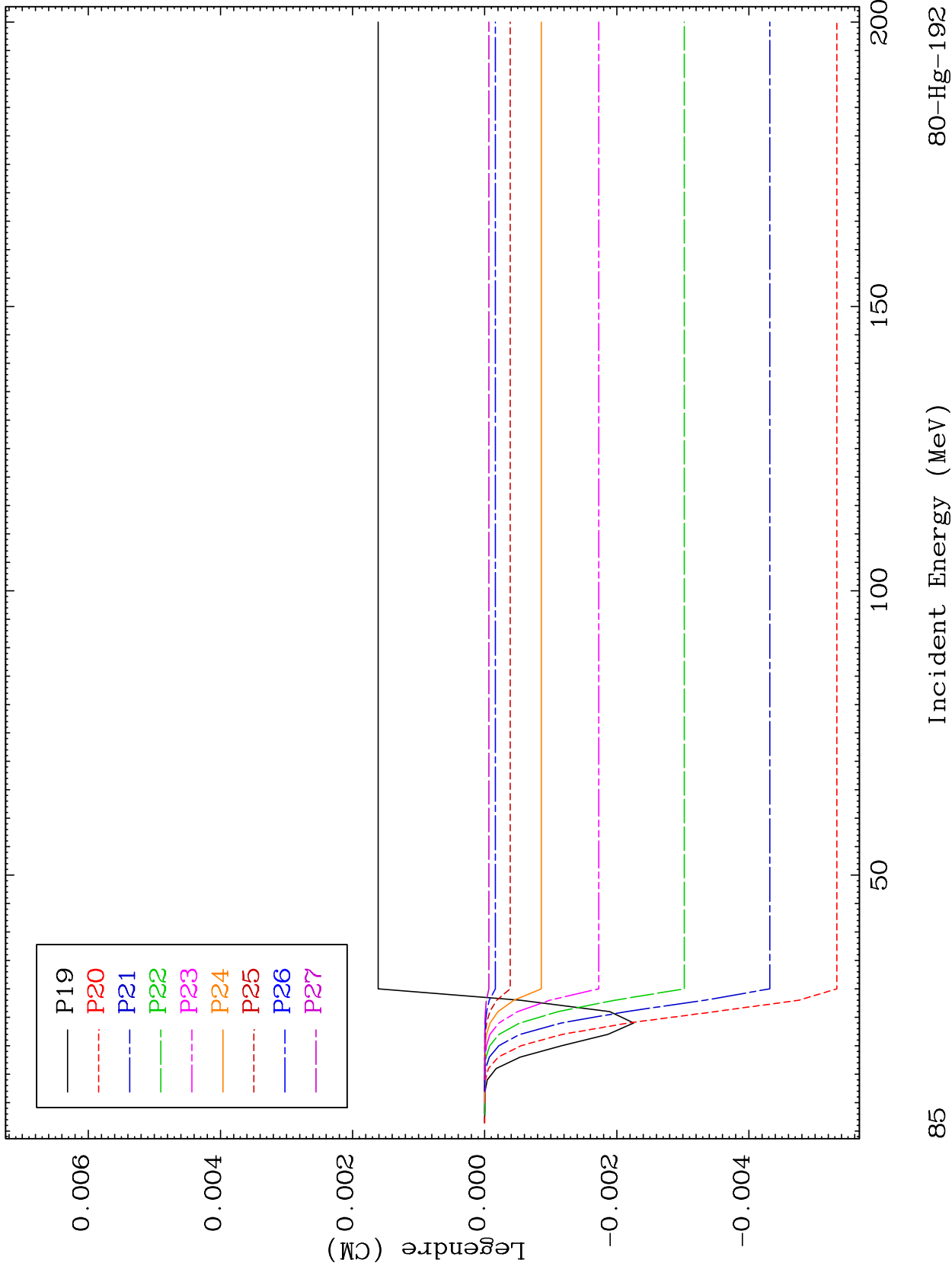
Incident Energy (MeV)

80-Hg-192

MAT 8013

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

80-Hg-192



85

Incident Energy (MeV)

80-Hg-192



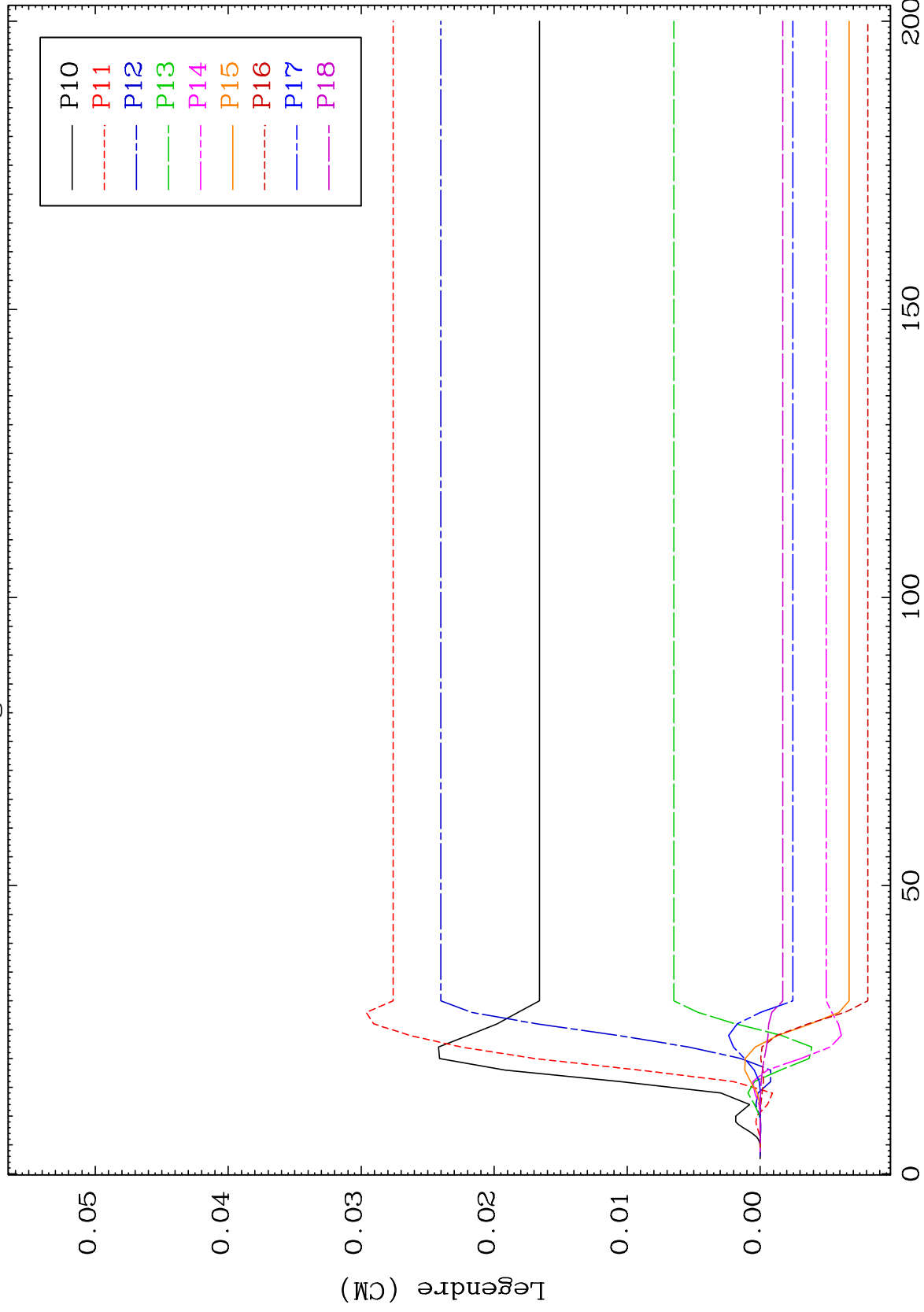




MAT 8013

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

80-Hg-192



88

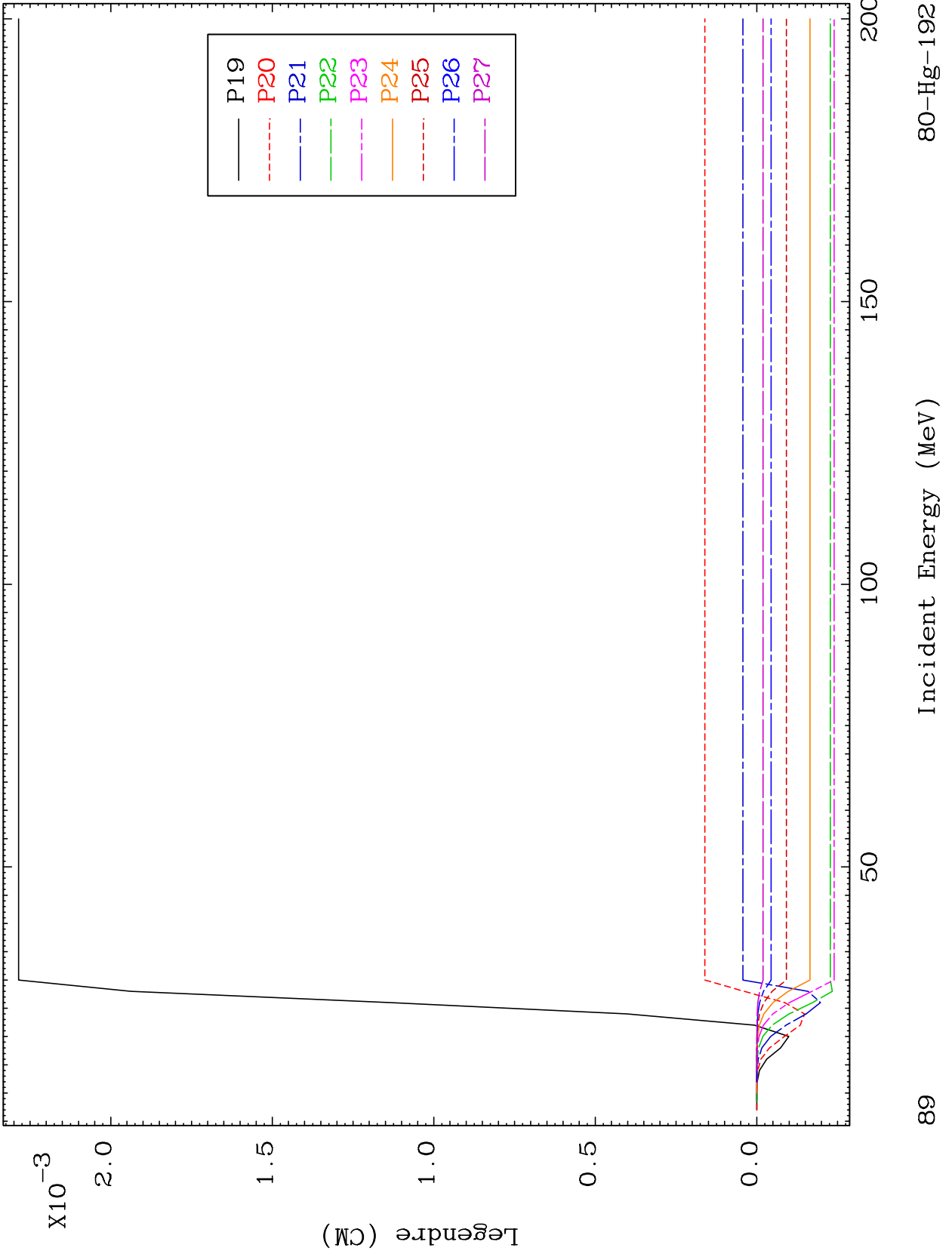
Incident Energy (MeV)

80-Hg-192

MAT 8013

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

80-Hg-192

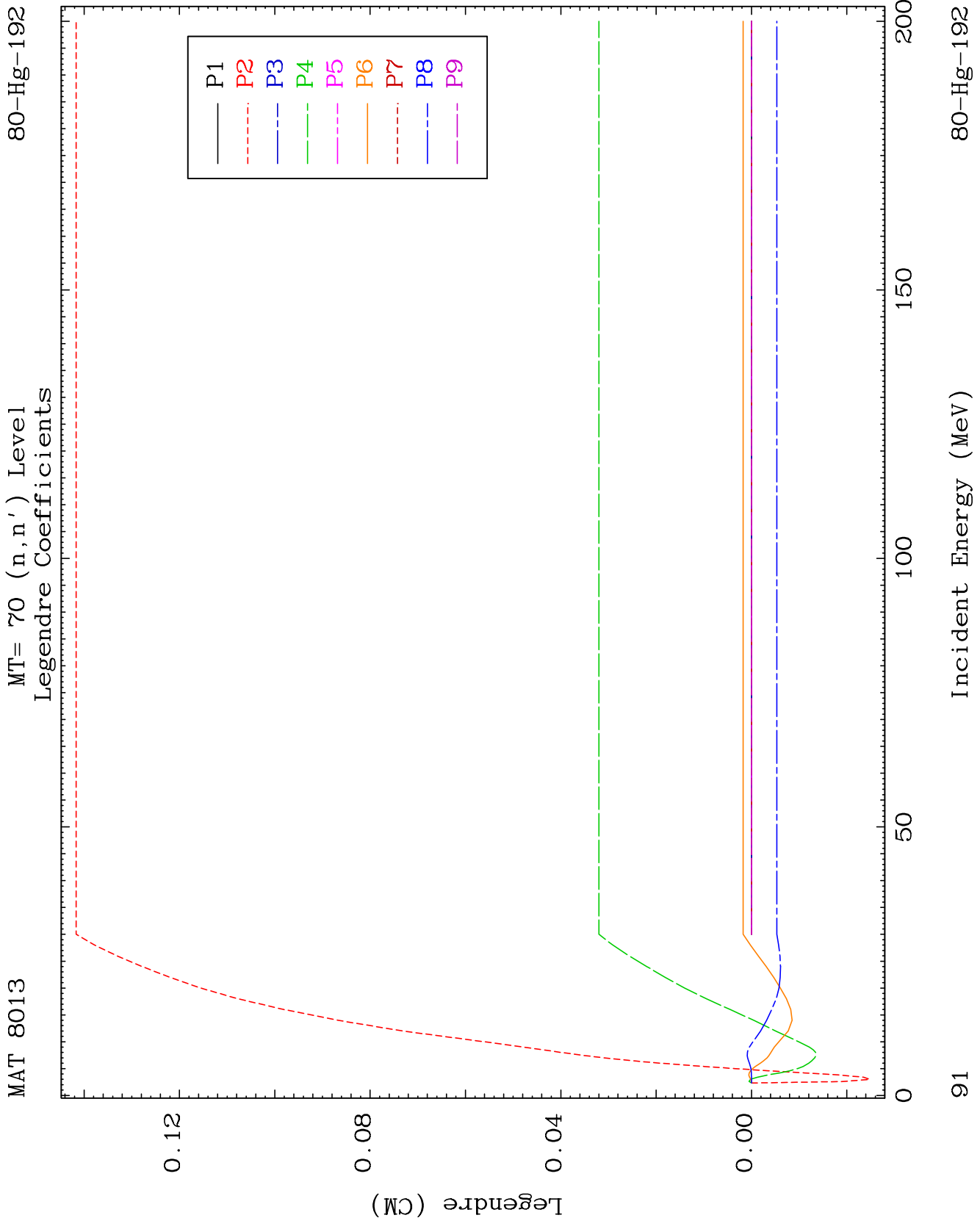


89

Incident Energy (MeV)

80-Hg-192

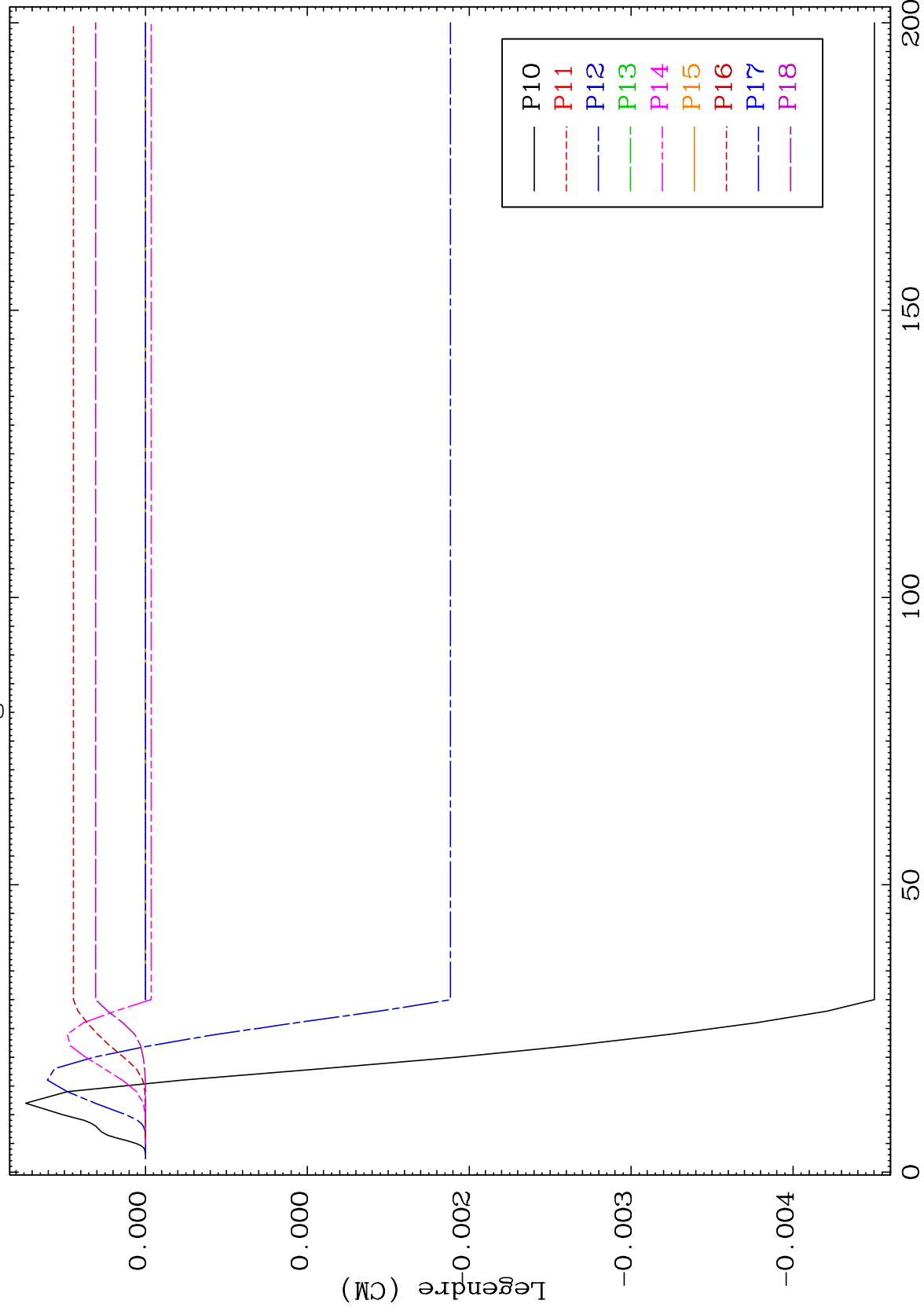




MAT 8013

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

80-Hg-192



92

Incident Energy (MeV)

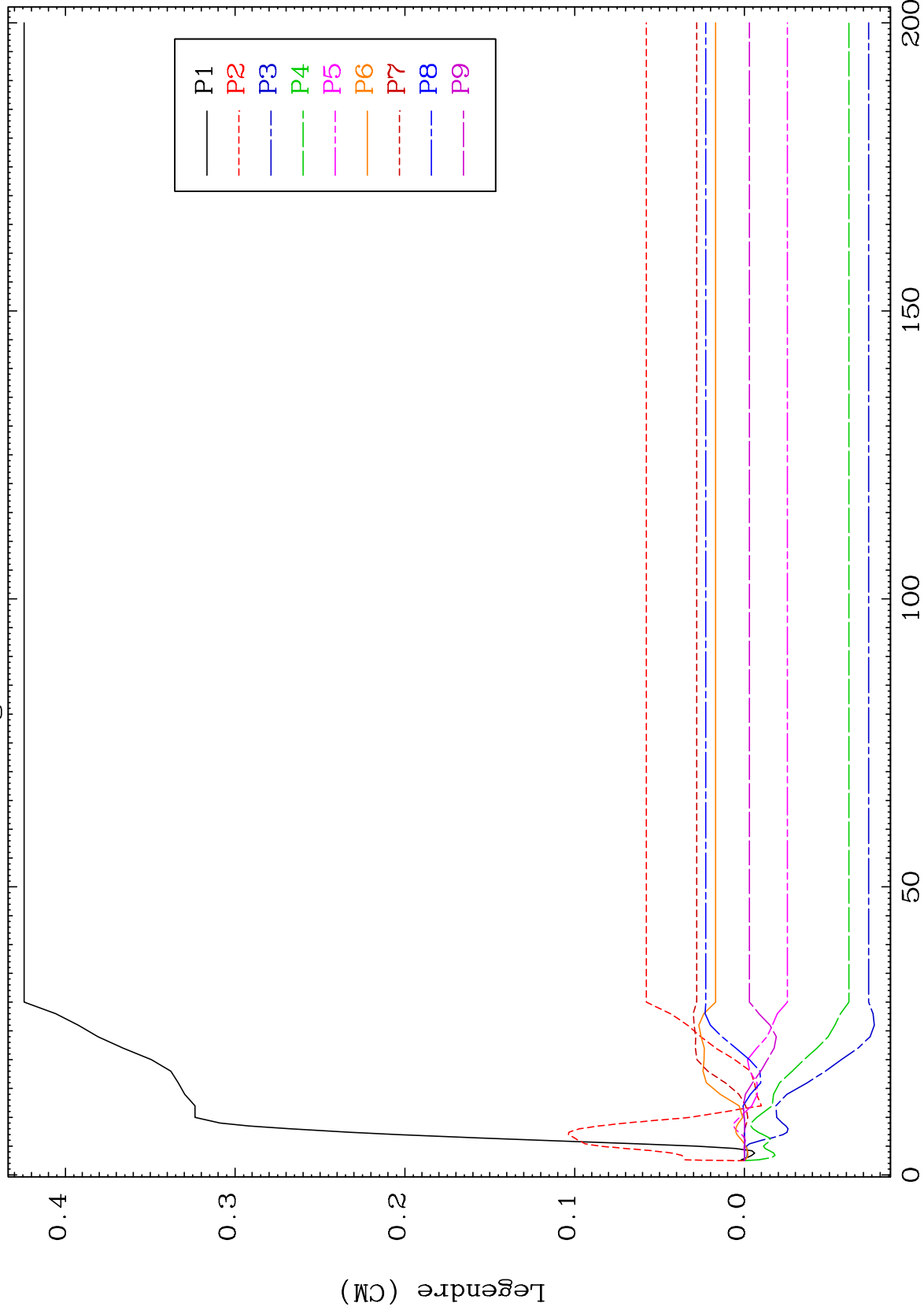
80-Hg-192



MAT 8013

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

80-Hg-192



94

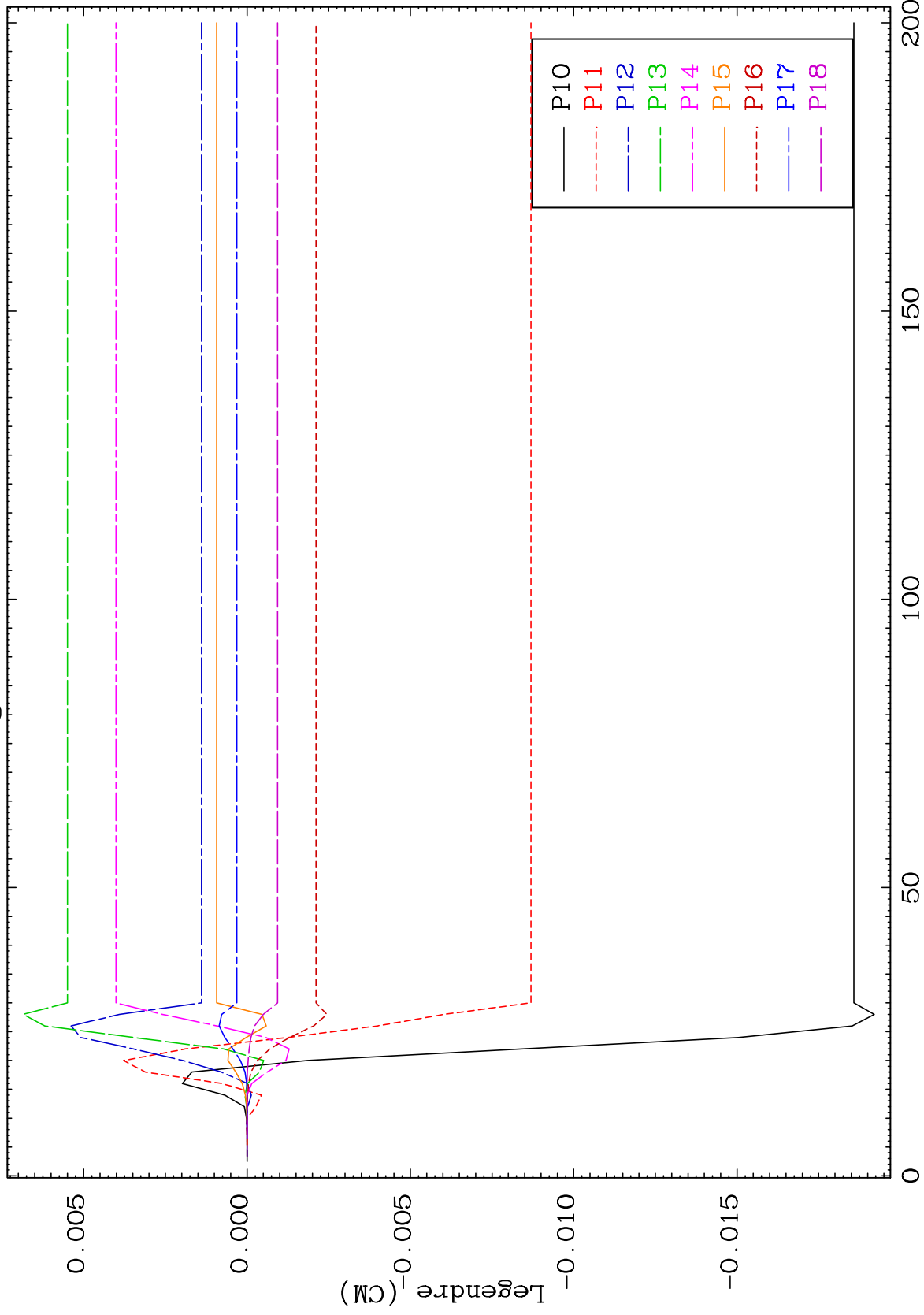
Incident Energy (MeV)

80-Hg-192

MAT 8013

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

80-Hg-192



95

Incident Energy (MeV)

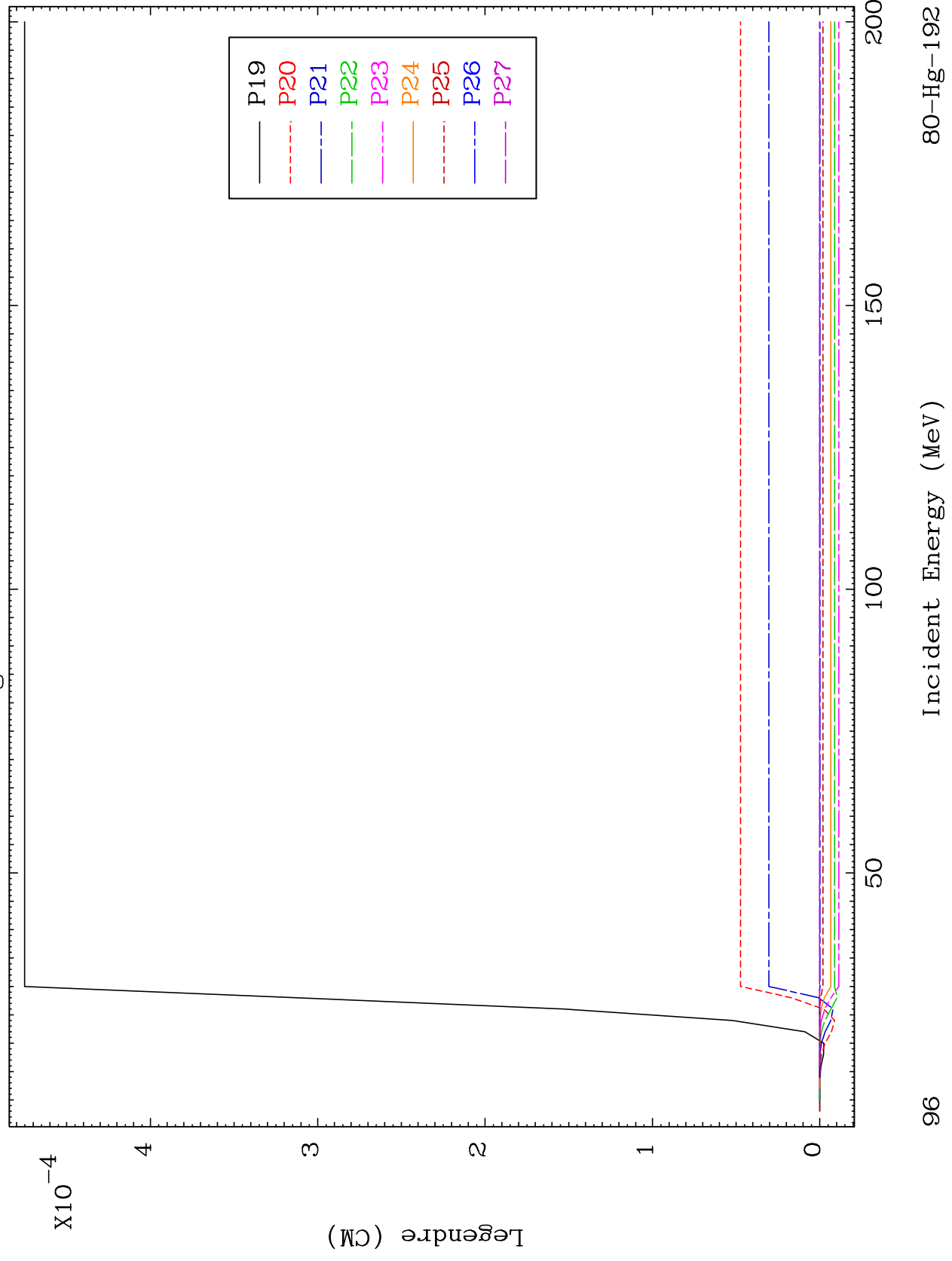
80-Hg-192



MAT 8013

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

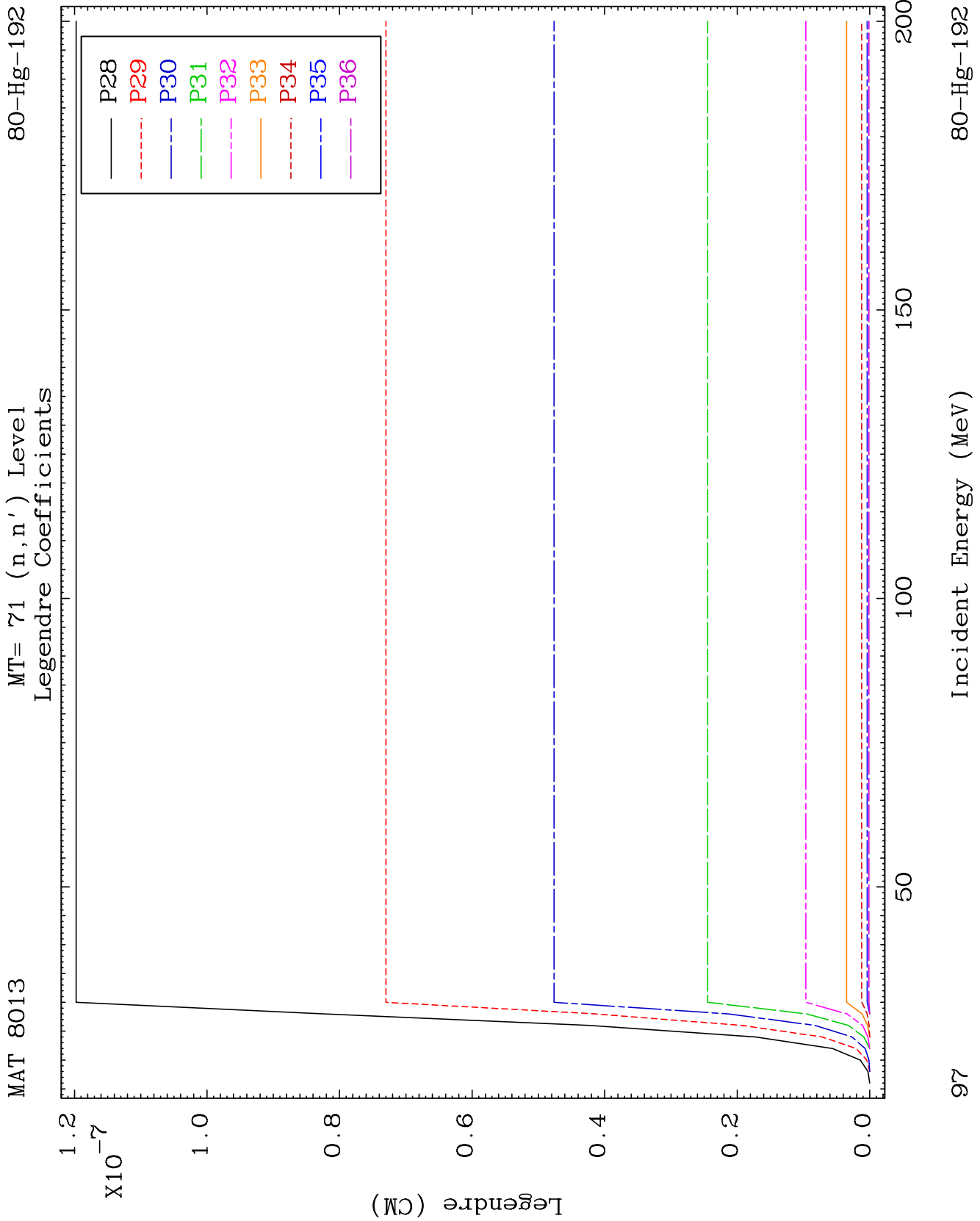
80-Hg-192



96

Incident Energy (MeV)

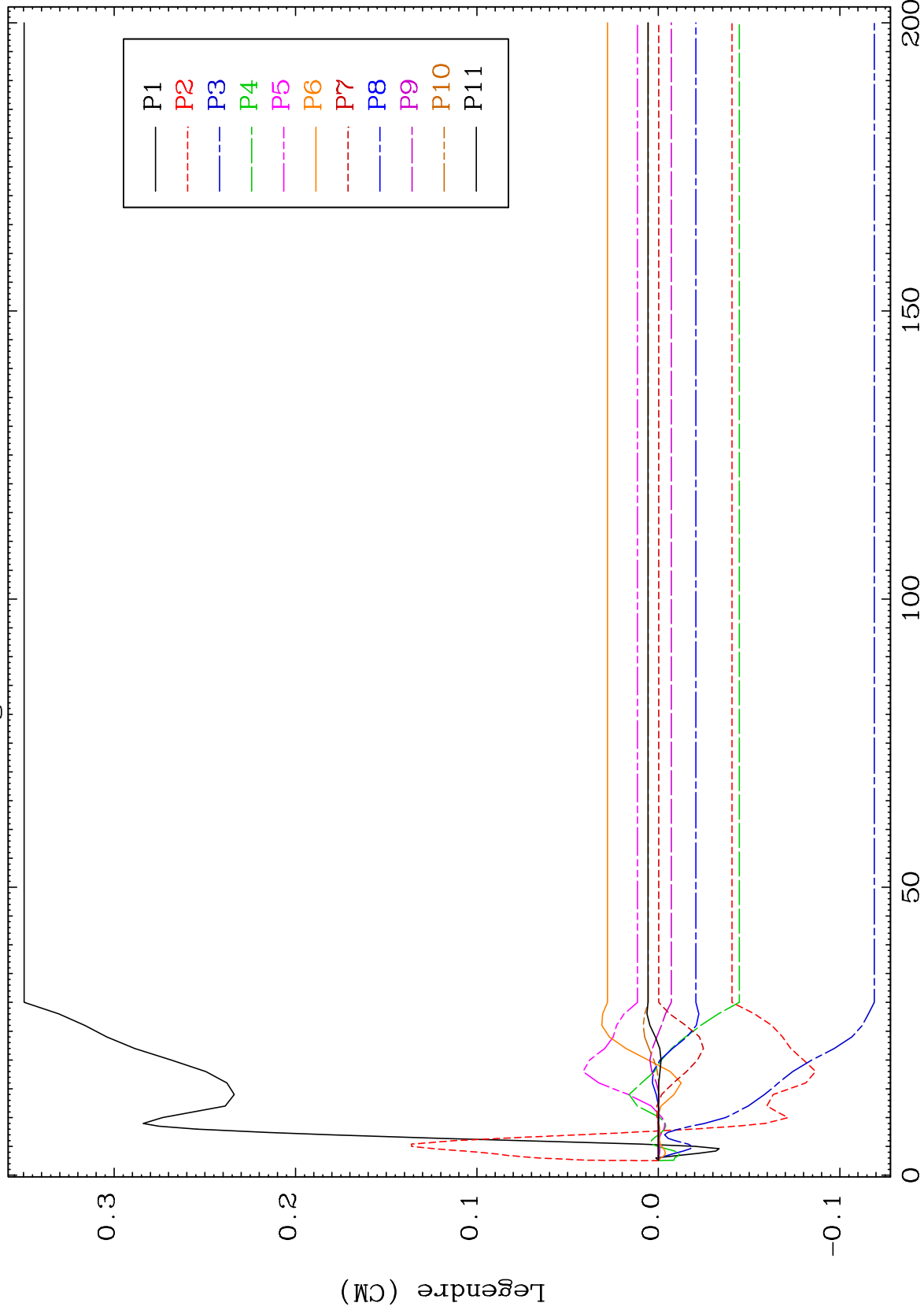
80-Hg-192



MAT 8013

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

80-Hg-192



98

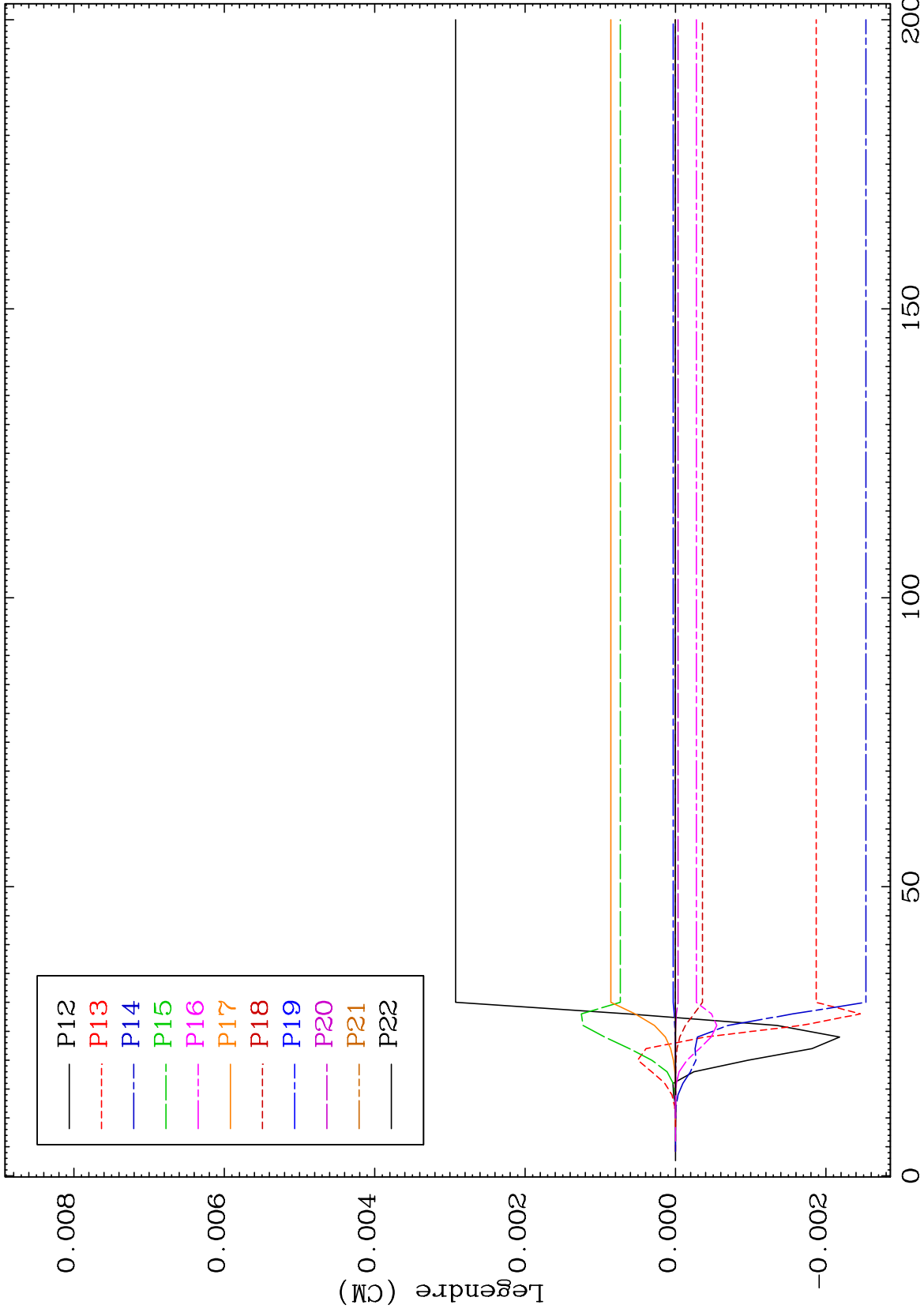
Incident Energy (MeV)

80-Hg-192

MAT 8013

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

80-Hg-192

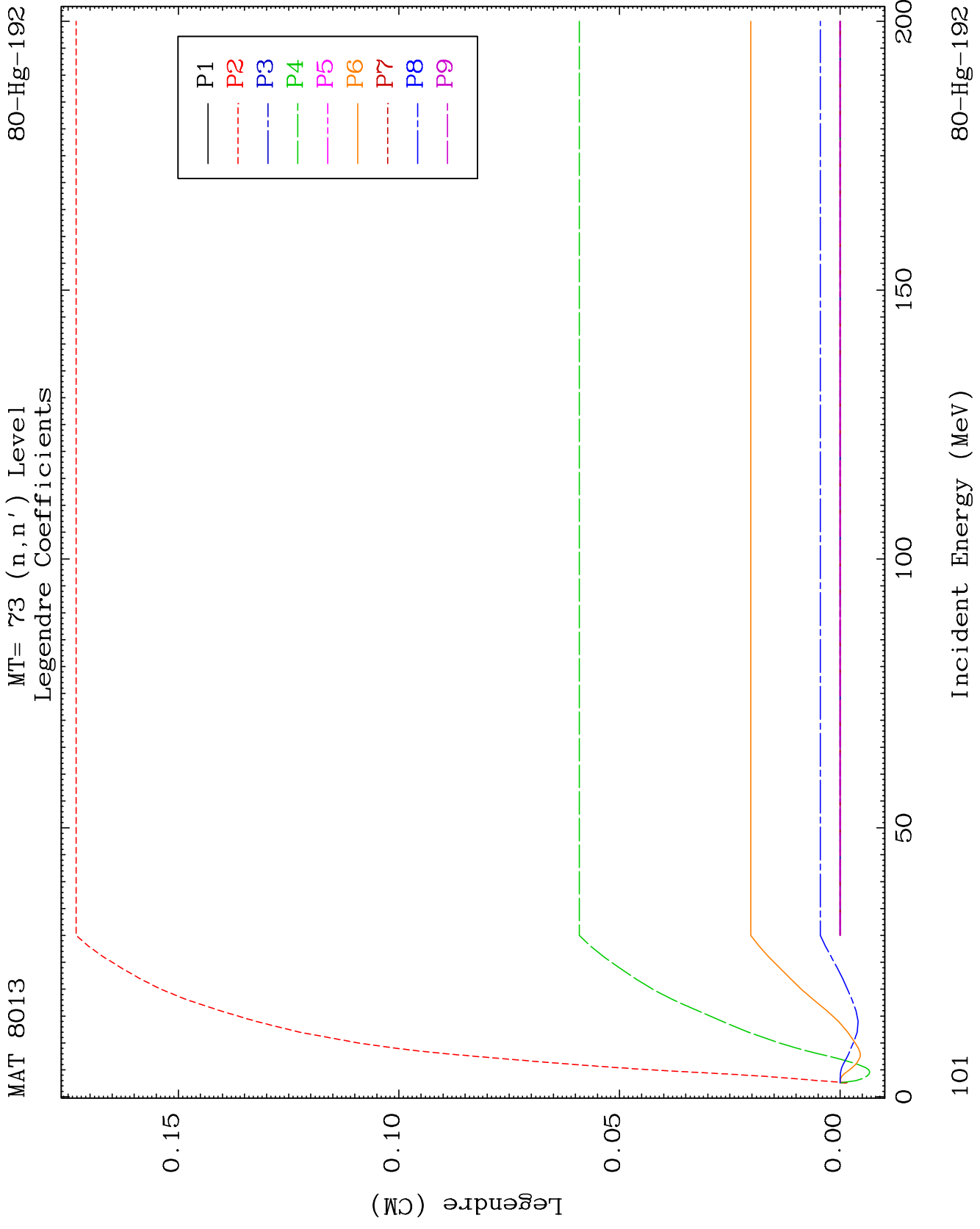


99

Incident Energy (MeV)

80-Hg-192

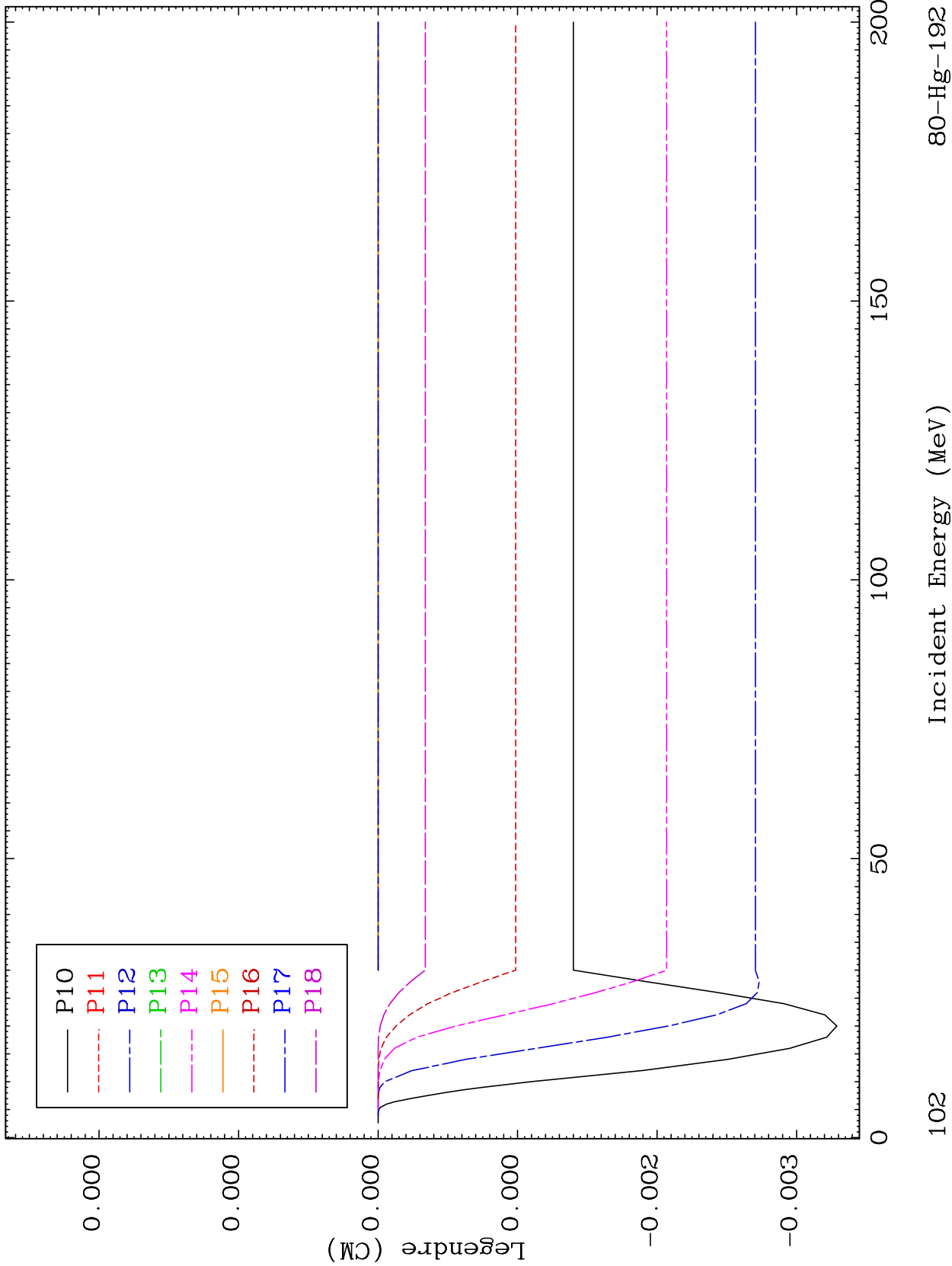




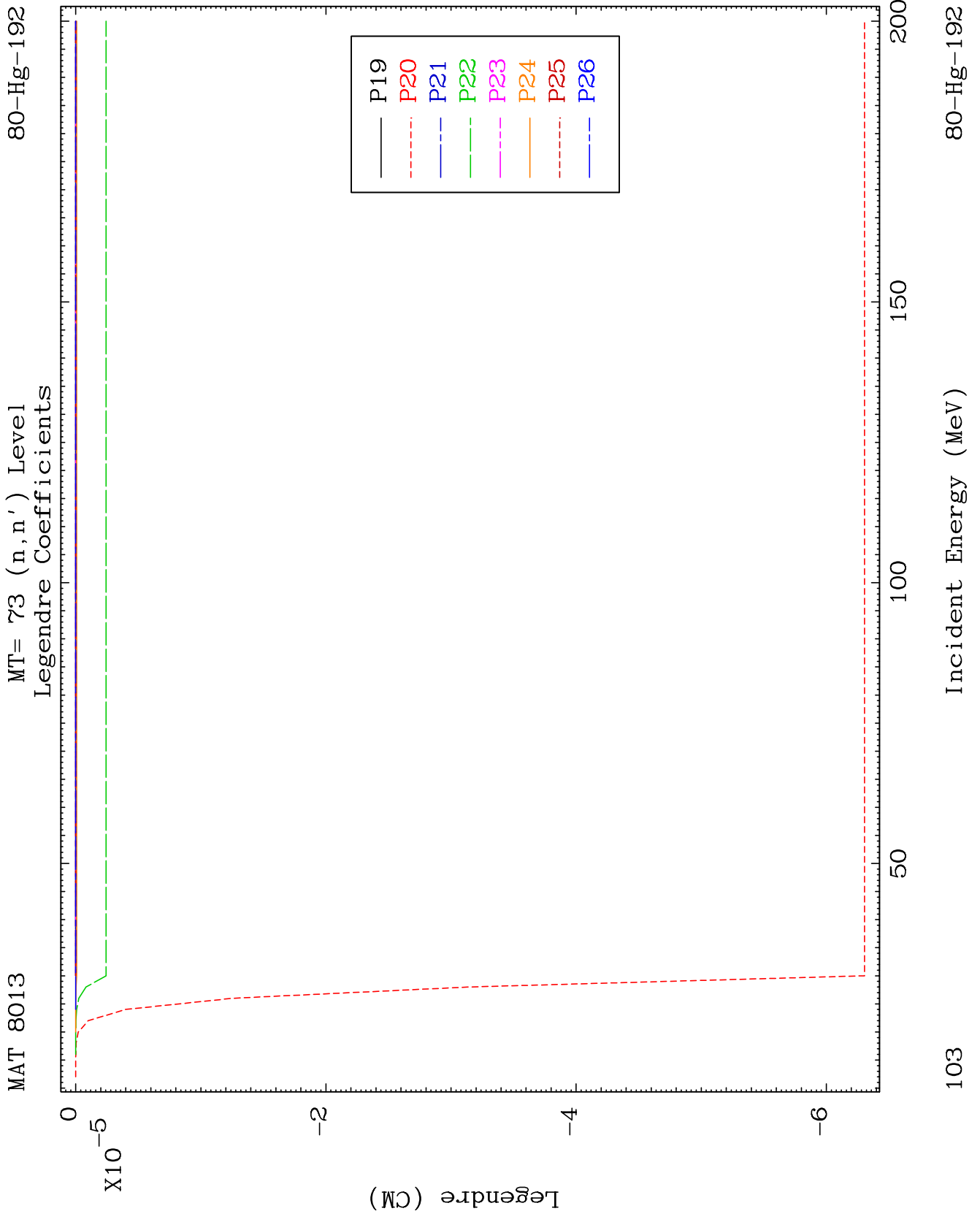
MAT 8013

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

80-Hg-192



102

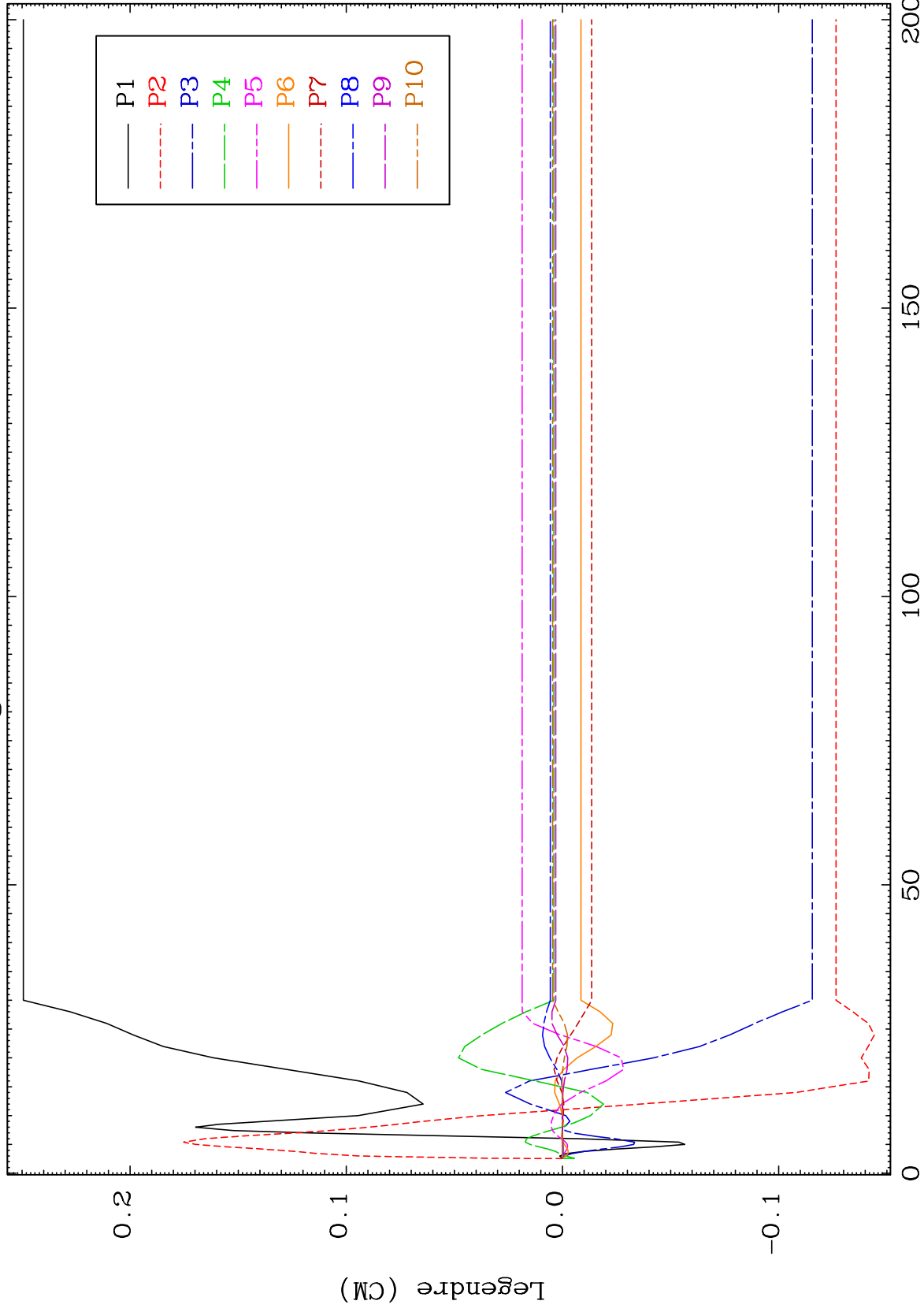




MAT 8013

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

80-Hg-192



104

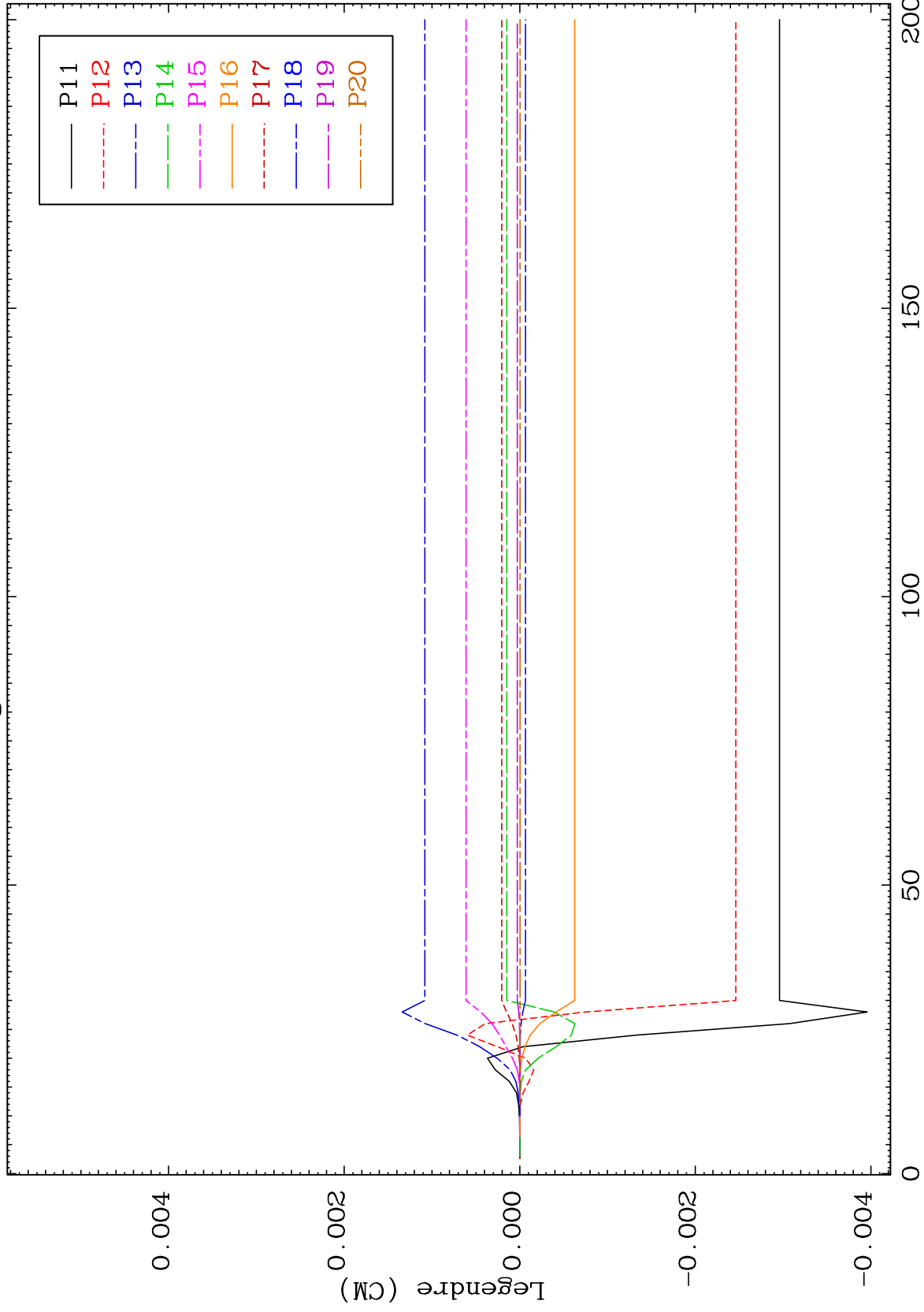
Incident Energy (MeV)

80-Hg-192

MAT 8013

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

80-Hg-192



105

Incident Energy (MeV)

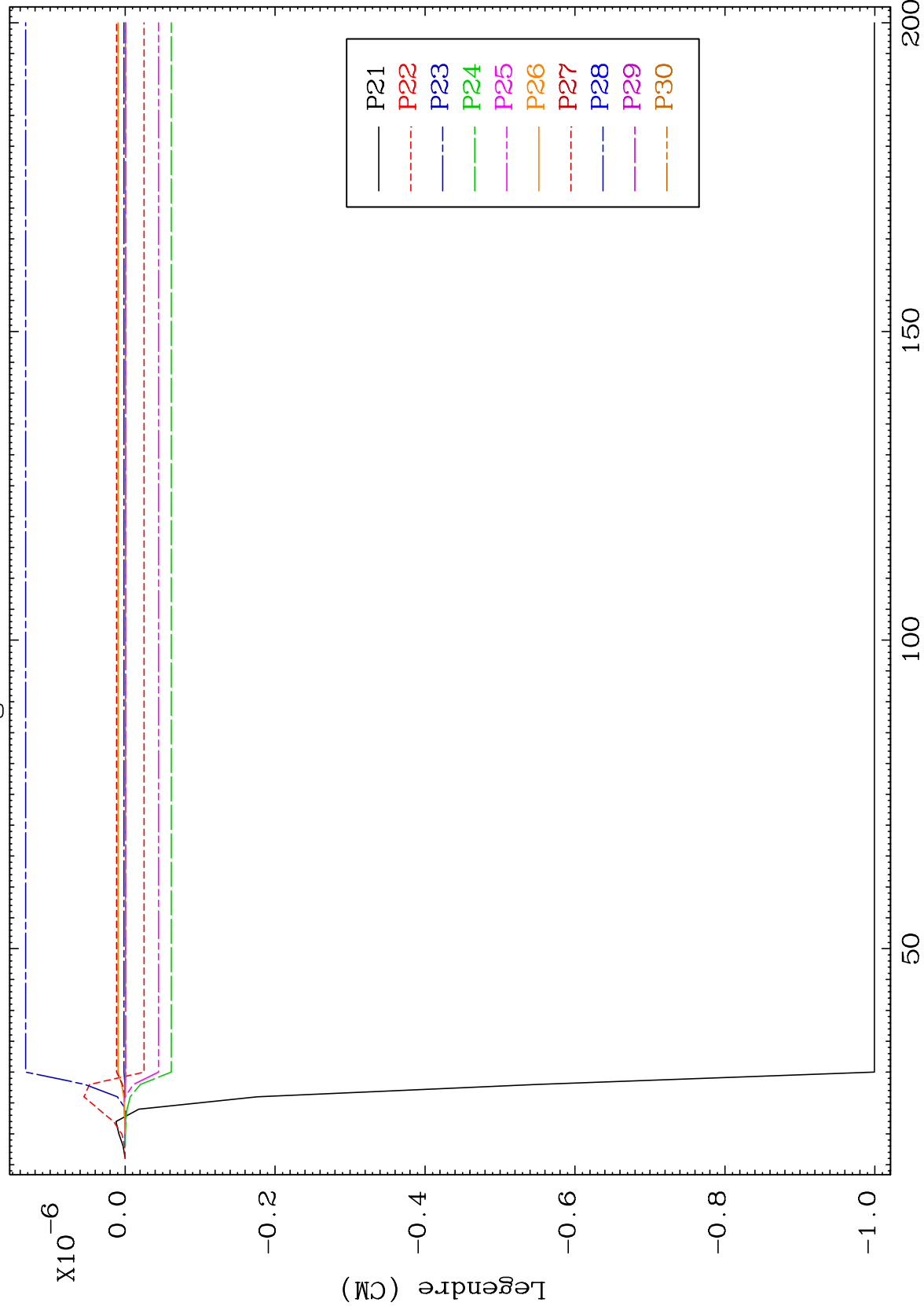
80-Hg-192

MAT 8013

MT= 74 (n,n') Level

80-Hg-192

Legendre Coefficients



106

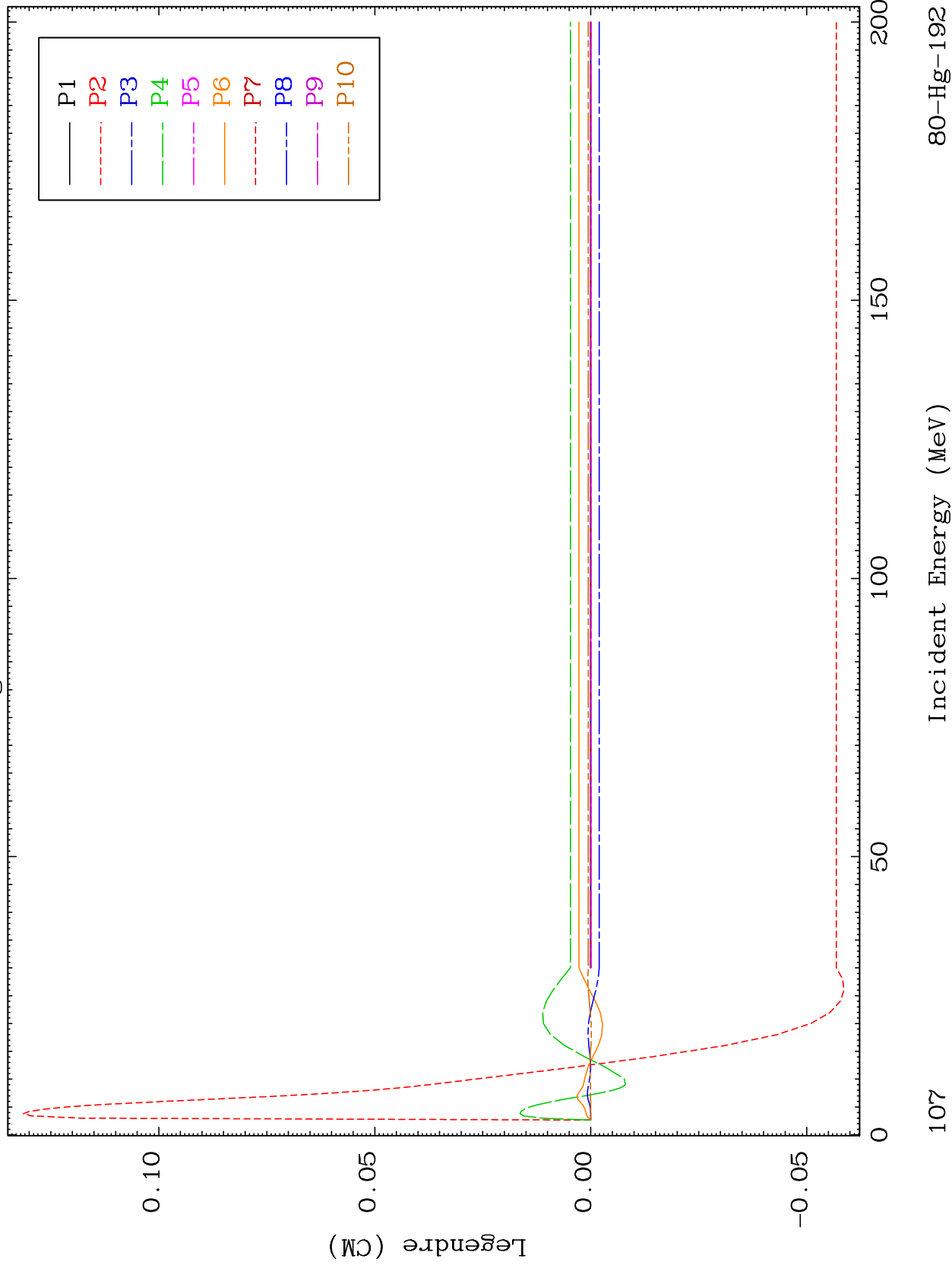
Incident Energy (MeV)

80-Hg-192

MAT 8013

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

80-Hg-192



80-Hg-192

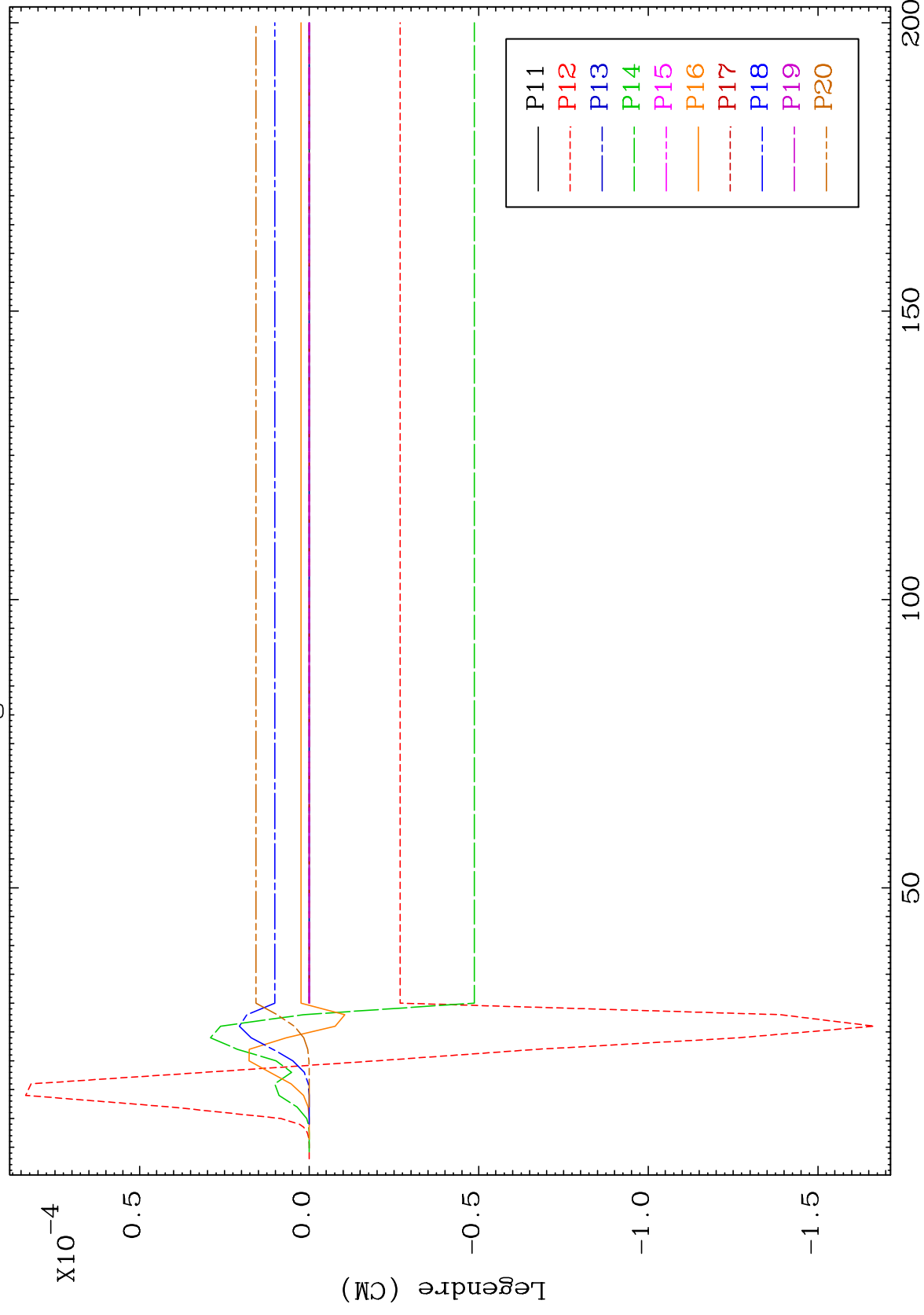
Incident Energy (MeV)

107

MAT 8013

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

80-Hg-192



108

Incident Energy (MeV)

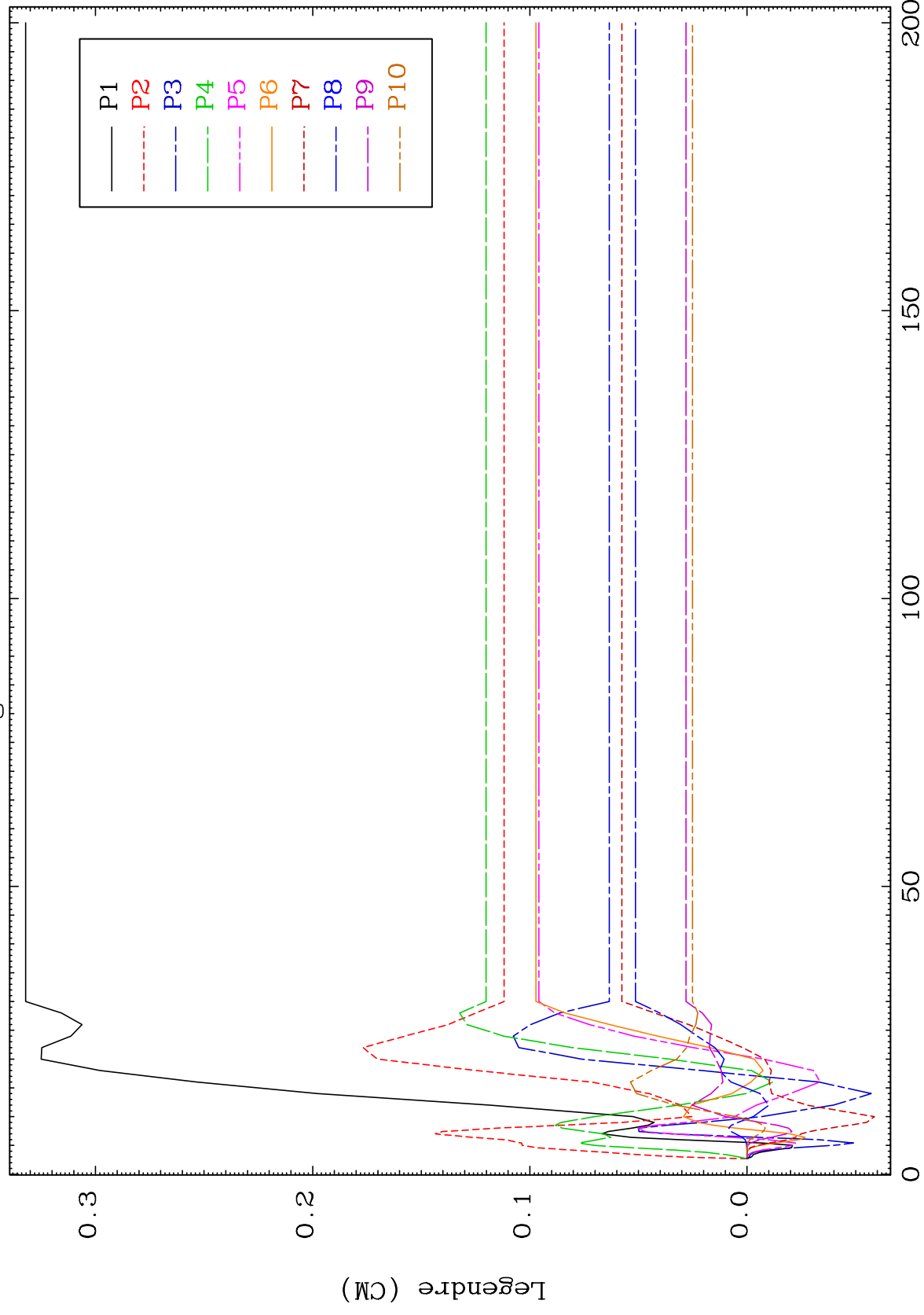
80-Hg-192



MAT 8013

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

80-Hg-192



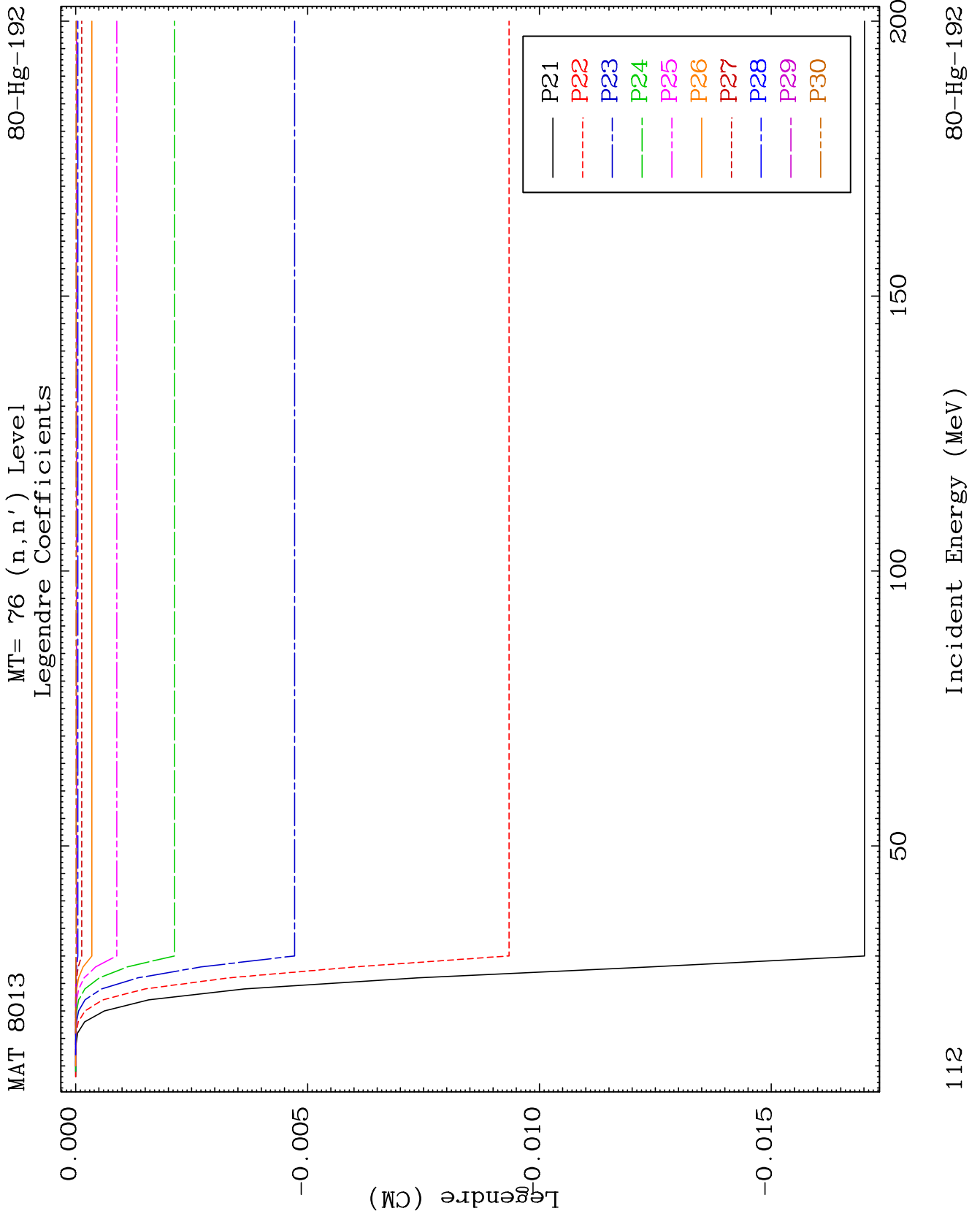
80-Hg-192

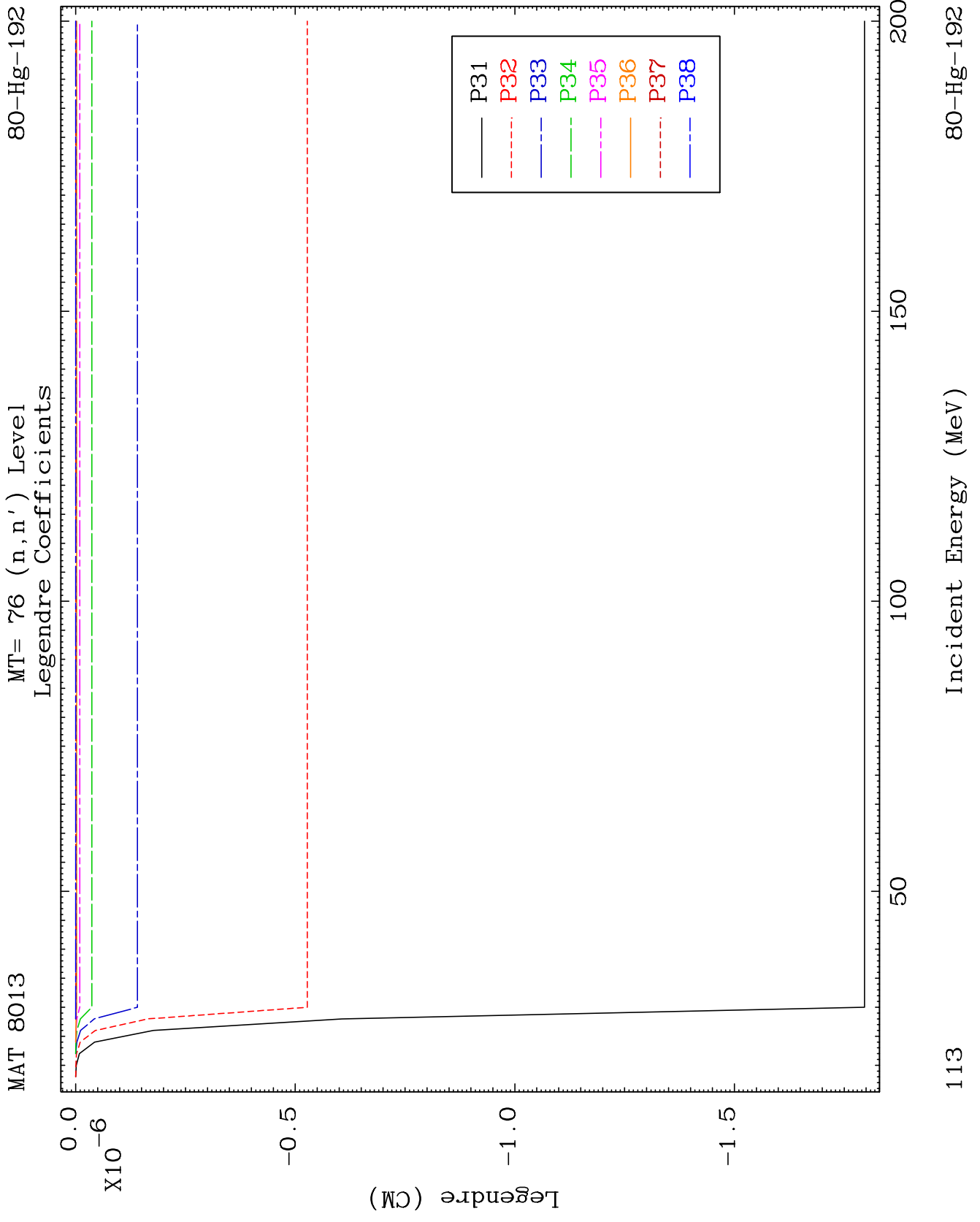
Incident Energy (MeV)

110







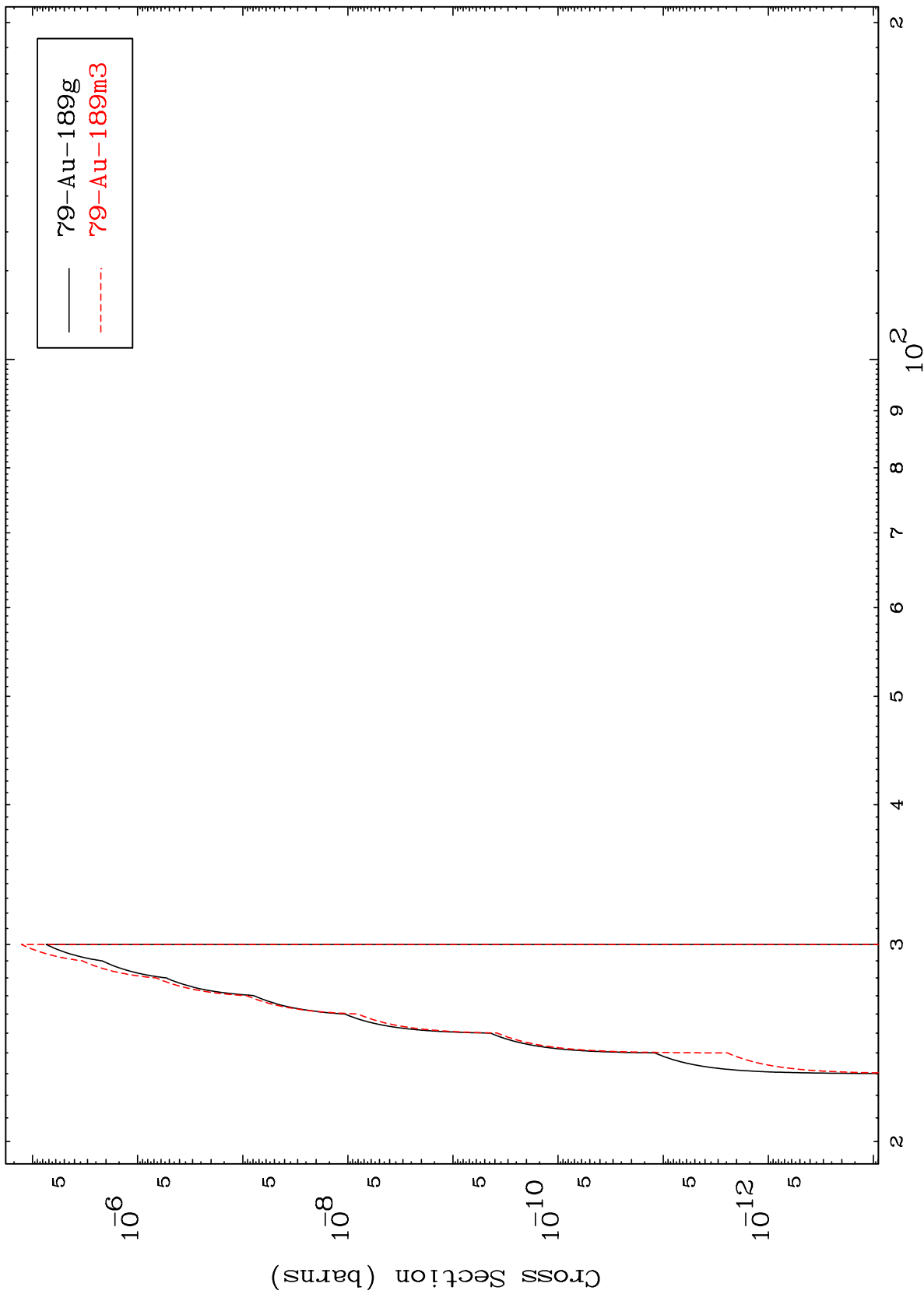


MAT 8013

(n,2n) d

80-Hg-192

Radionuclide Production Cross Section



114

Incident Energy (MeV)

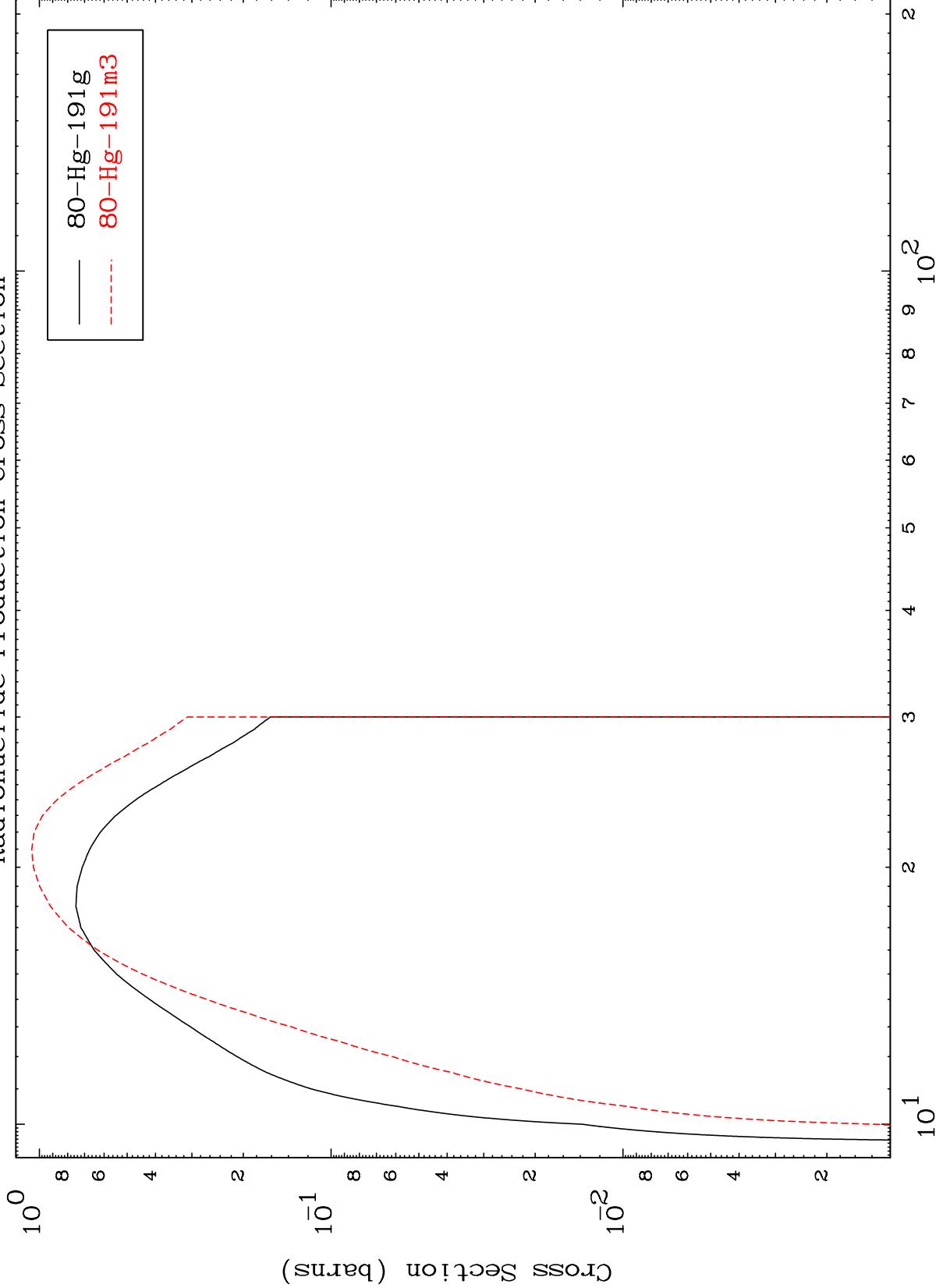
80-Hg-192

MAT 8013

(n,2n)

80-Hg-192

Radionuclide Production Cross Section



80-Hg-191 g  
80-Hg-191 m3

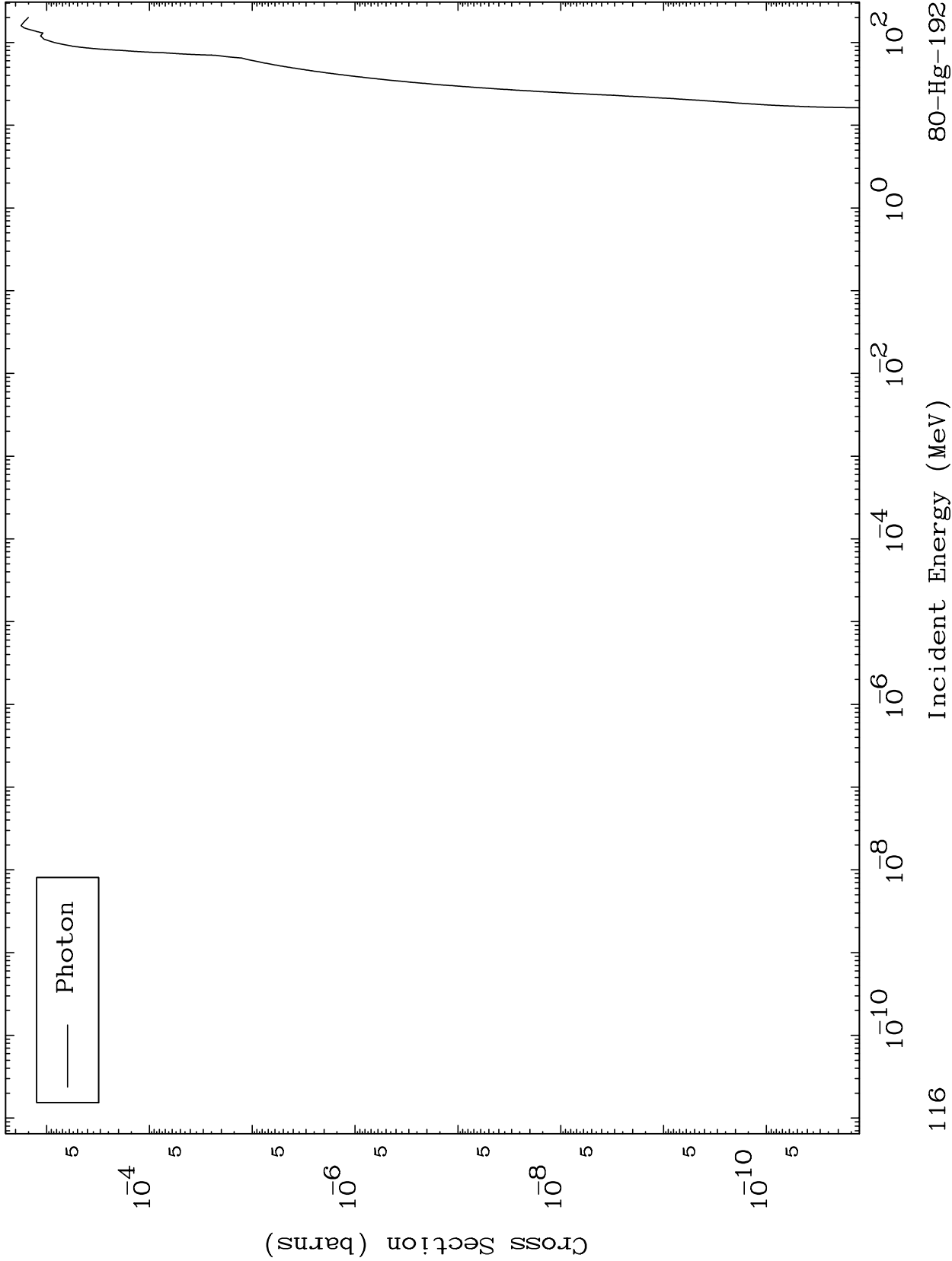
Incident Energy (MeV)

80-Hg-192

MAT 8013

Fission  
Radionuclide Production Cross Section

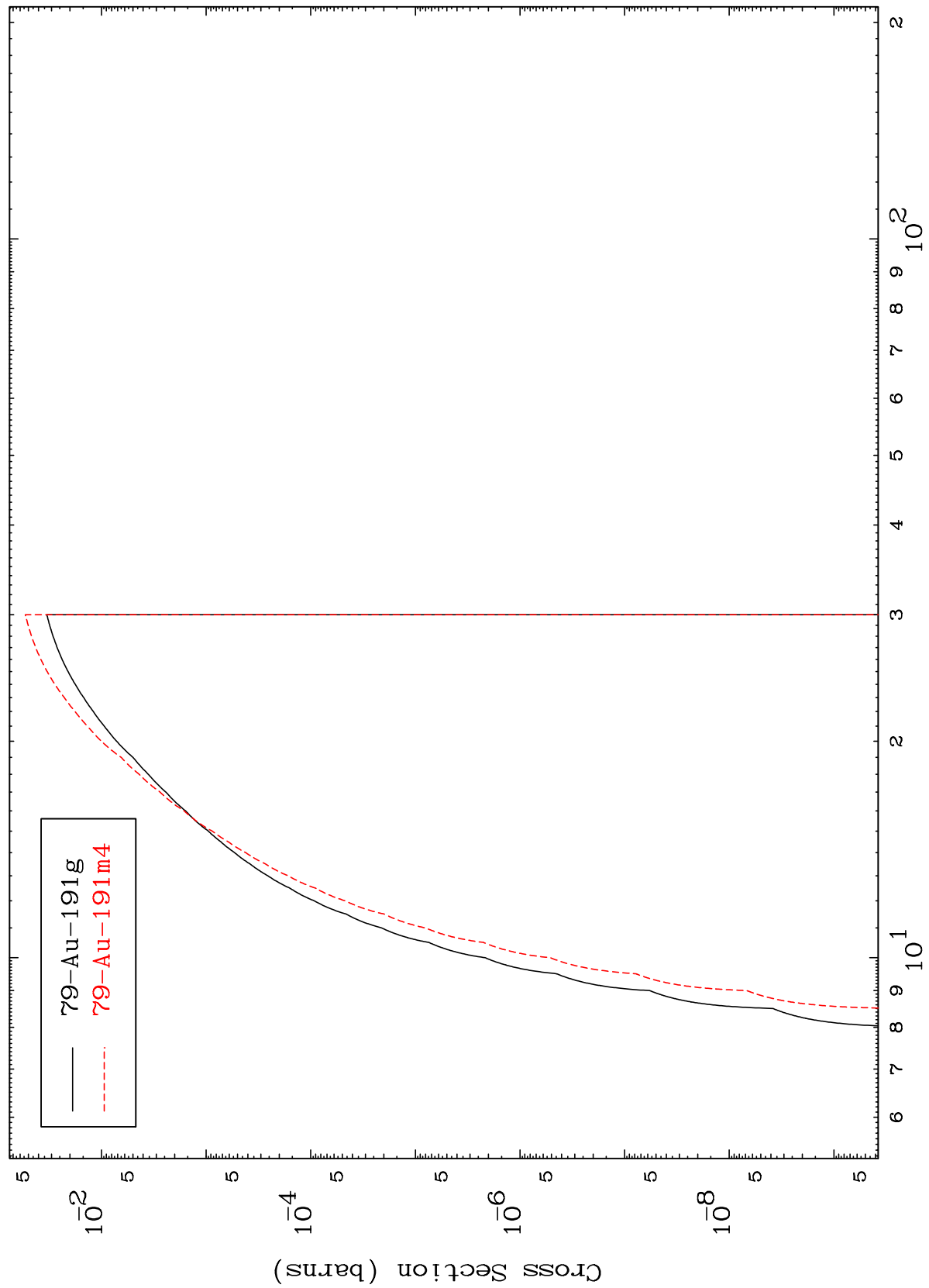
80-Hg-192



MAT 8013

80-Hg-192

(n,n') p  
Radionuclide Production Cross Section



117

Incident Energy (MeV)

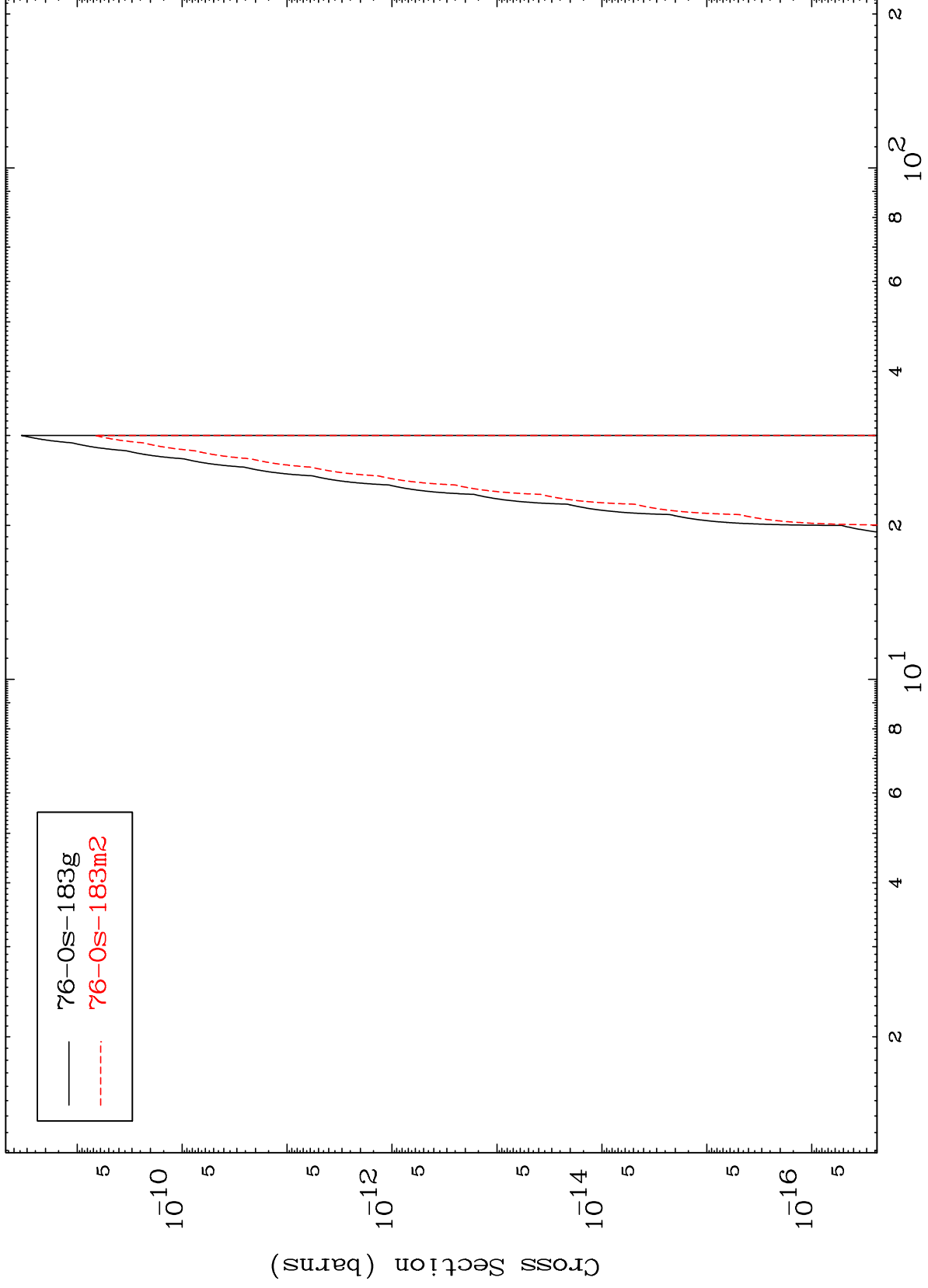
80-Hg-192

MAT 8013

(n,2n) 2α

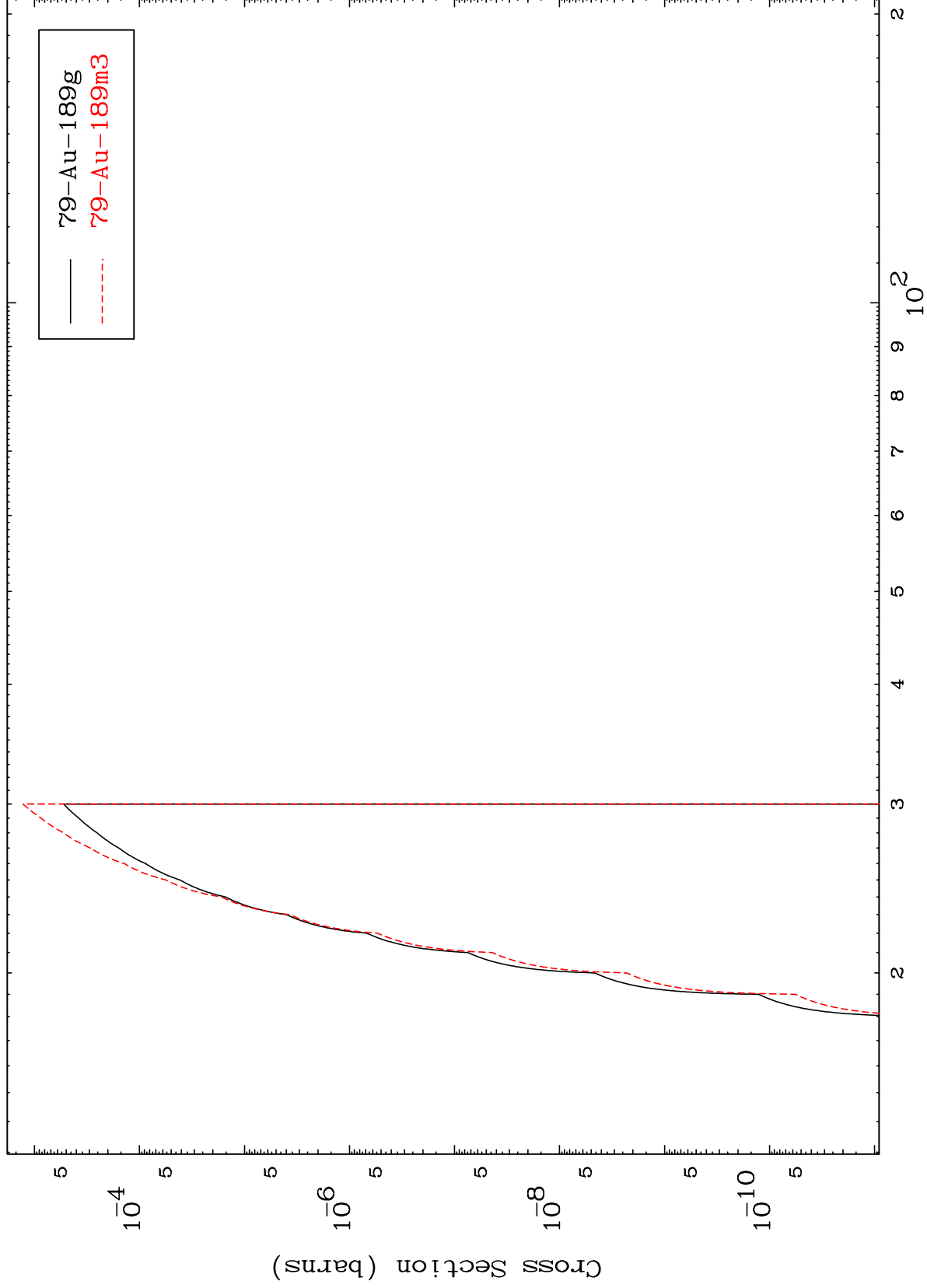
80-Hg-192

Radionuclide Production Cross Section



76-0s-183g  
76-0s-183m2

Radionuclide Production Cross Section

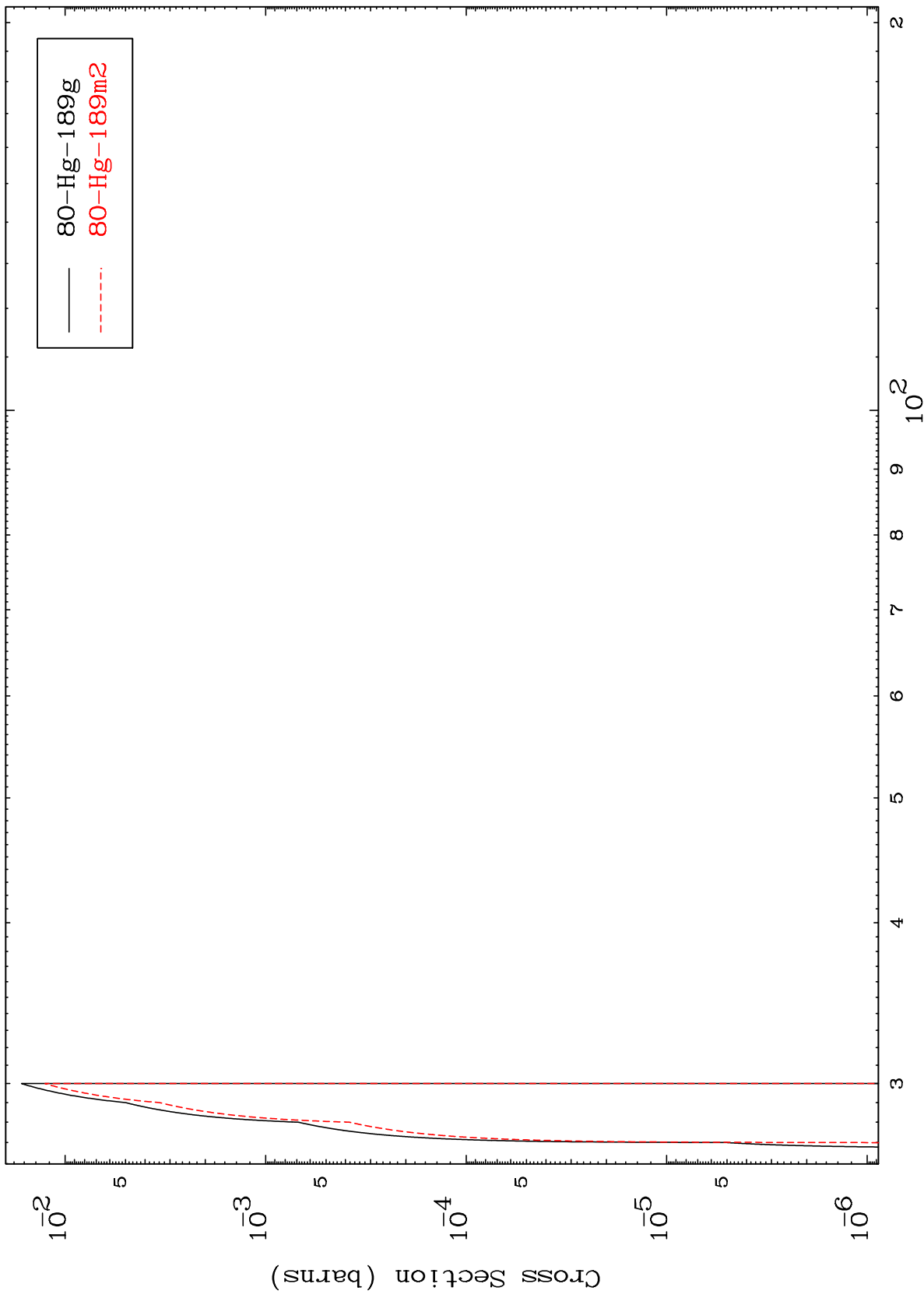




MAT 8013

80-Hg-192

(n,4n)  
Radionuclide Production Cross Section



120

Incident Energy (MeV)

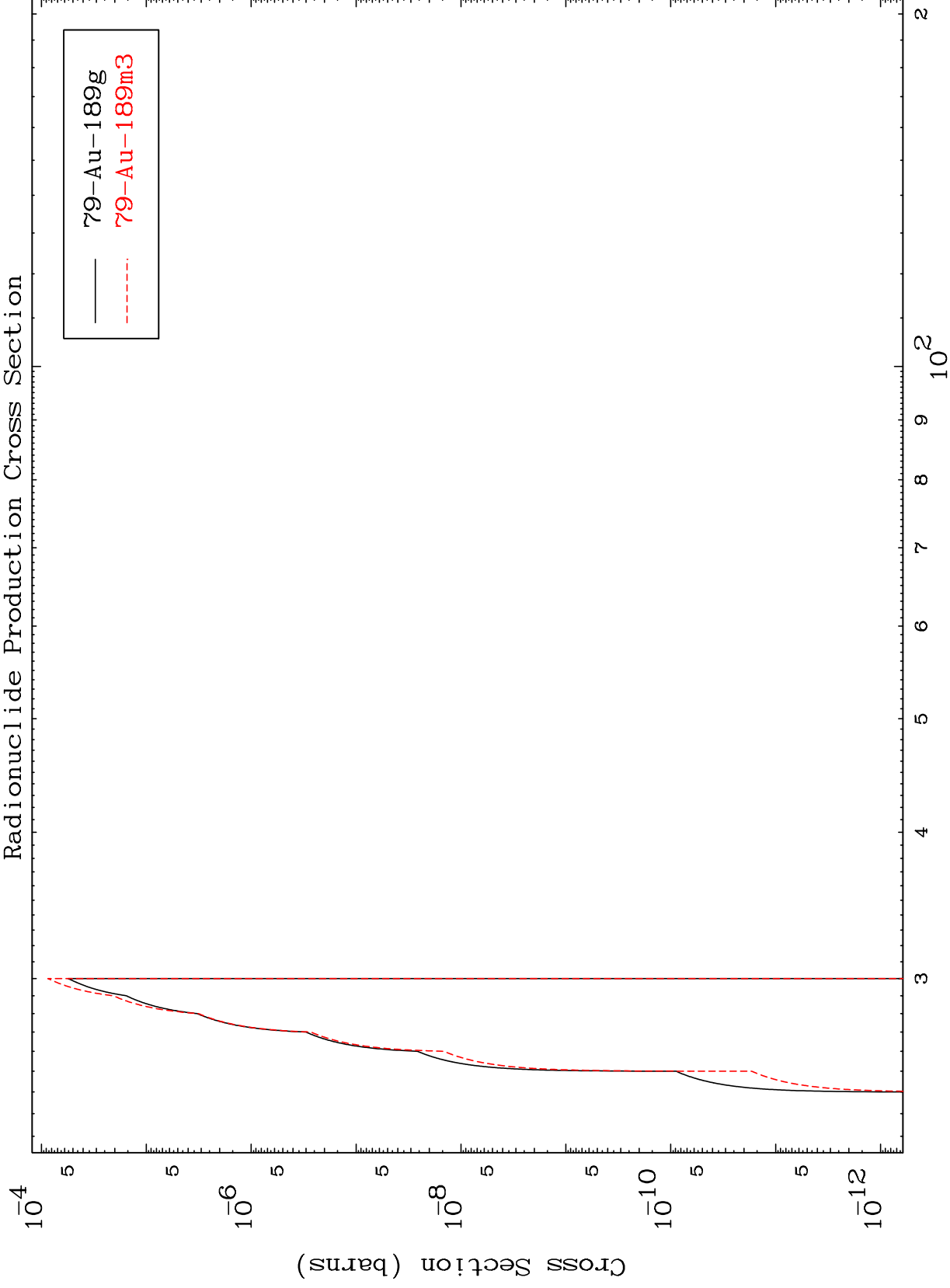
80-Hg-192

MAT 8013

(n,3n) p

80-Hg-192

Radionuclide Production Cross Section



121

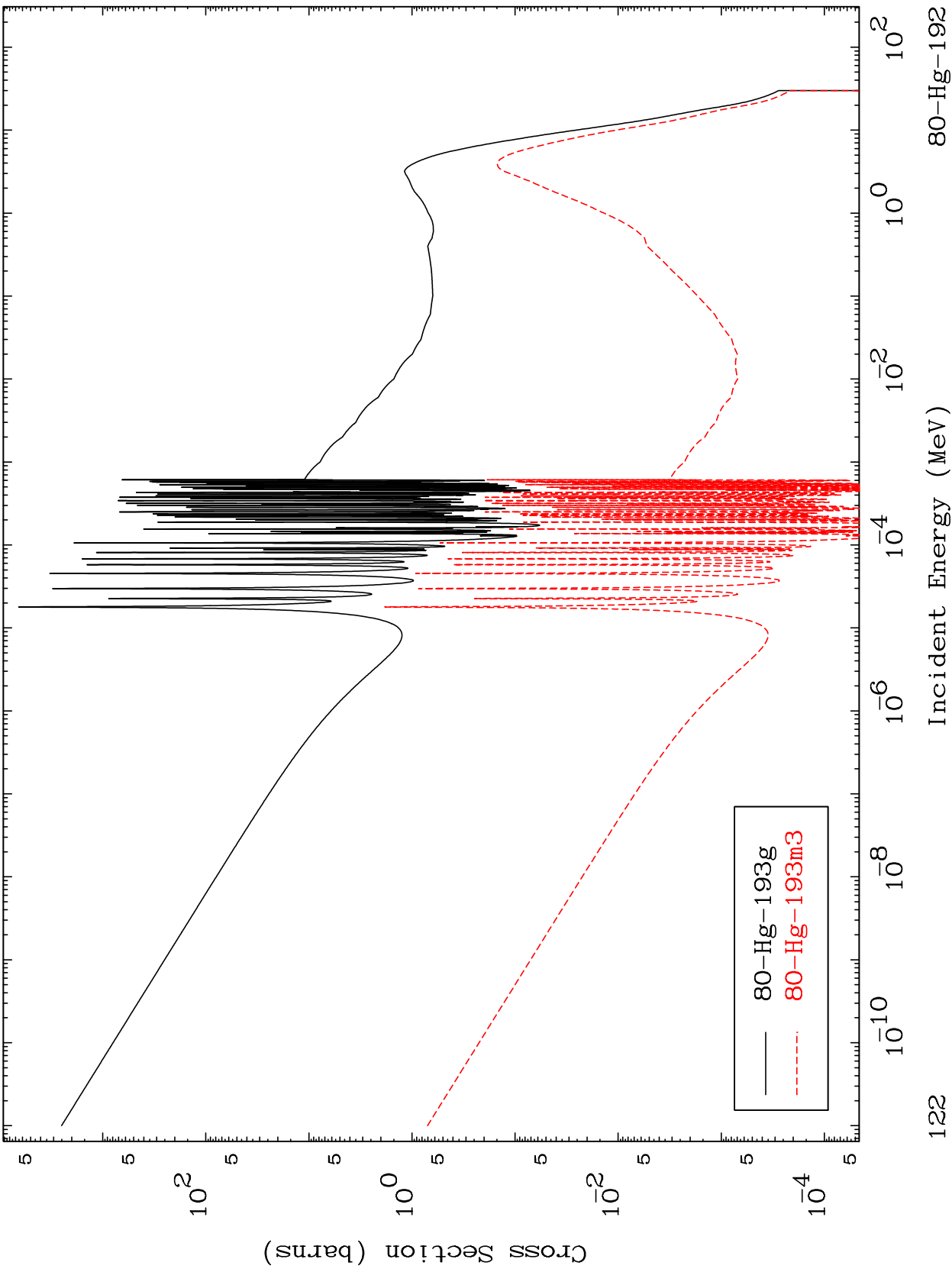
Incident Energy (MeV)

80-Hg-192

MAT 8013

80-Hg-192

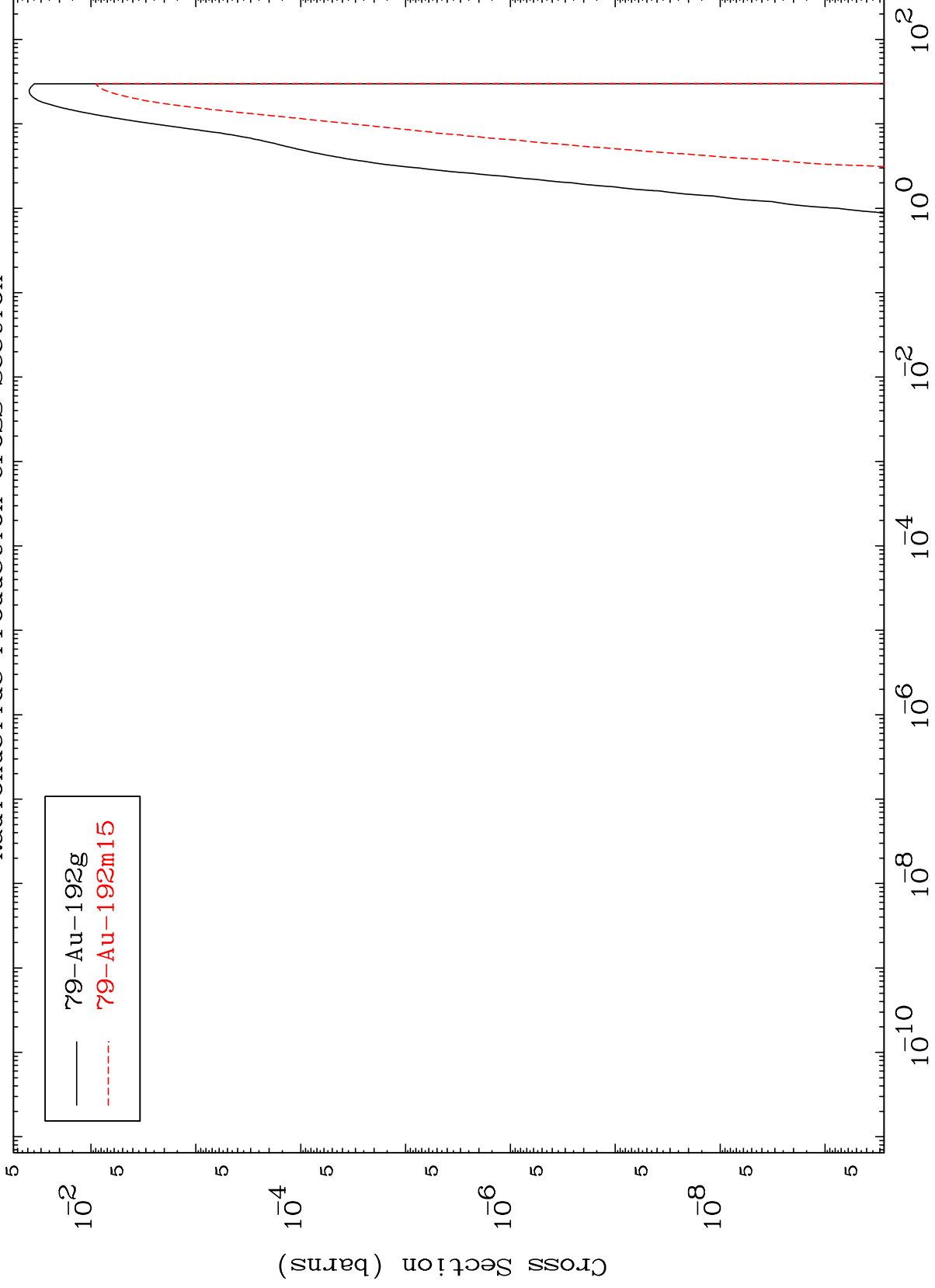
(n,  $\gamma$ )  
Radionuclide Production Cross Section



MAT 8013

(n,p)  
Radionuclide Production Cross Section

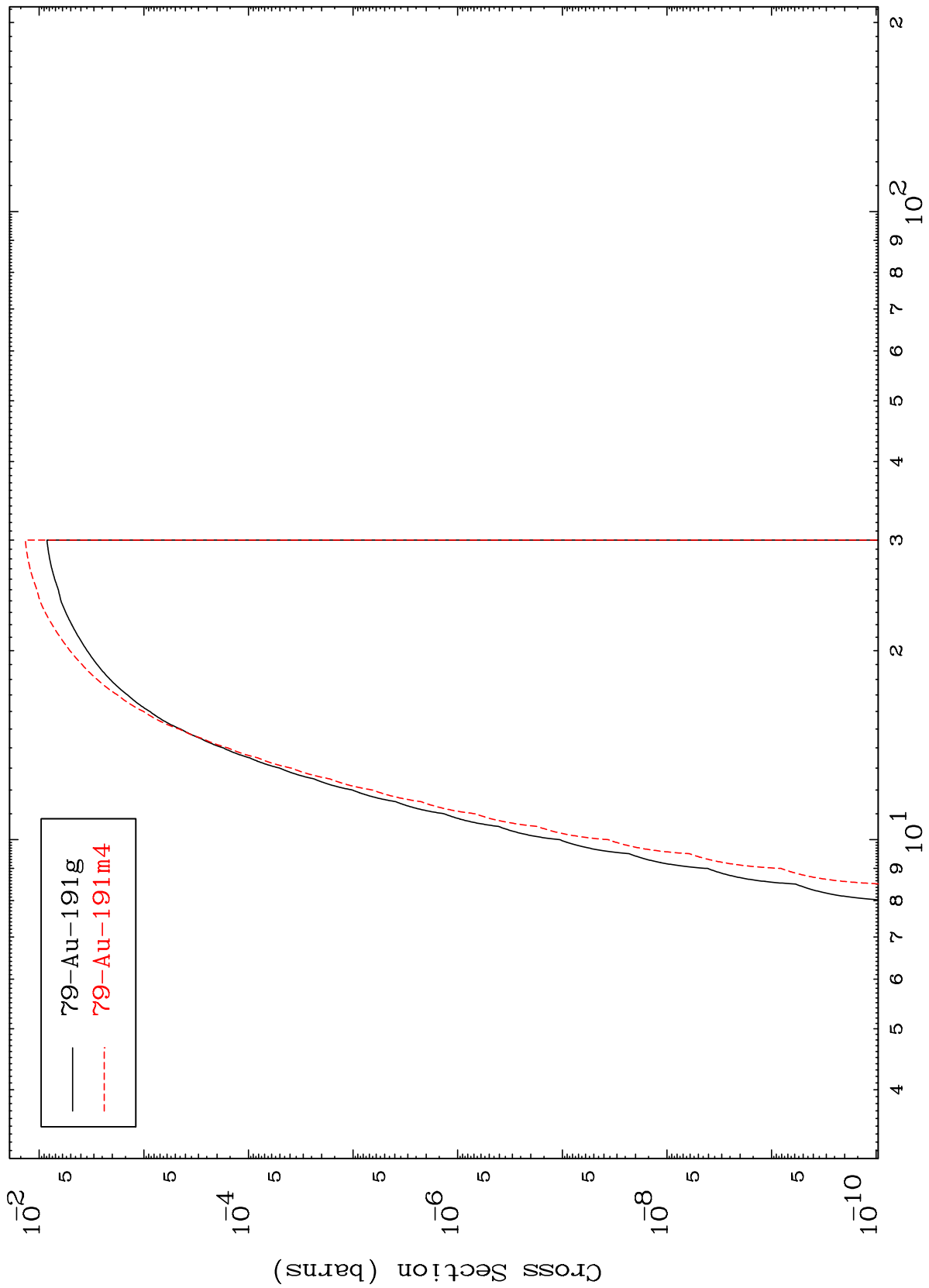
80-Hg-192



MAT 8013

80-Hg-192

(n,d)  
Radionuclide Production Cross Section



—  $^{79}\text{Au-191g}$   
- - -  $^{79}\text{Au-191m4}$

124

Incident Energy (MeV)

80-Hg-192