

Program EVALPLOT
(Version 2017-1)

by

Dermott E. Cullen
(Present Contact Information)

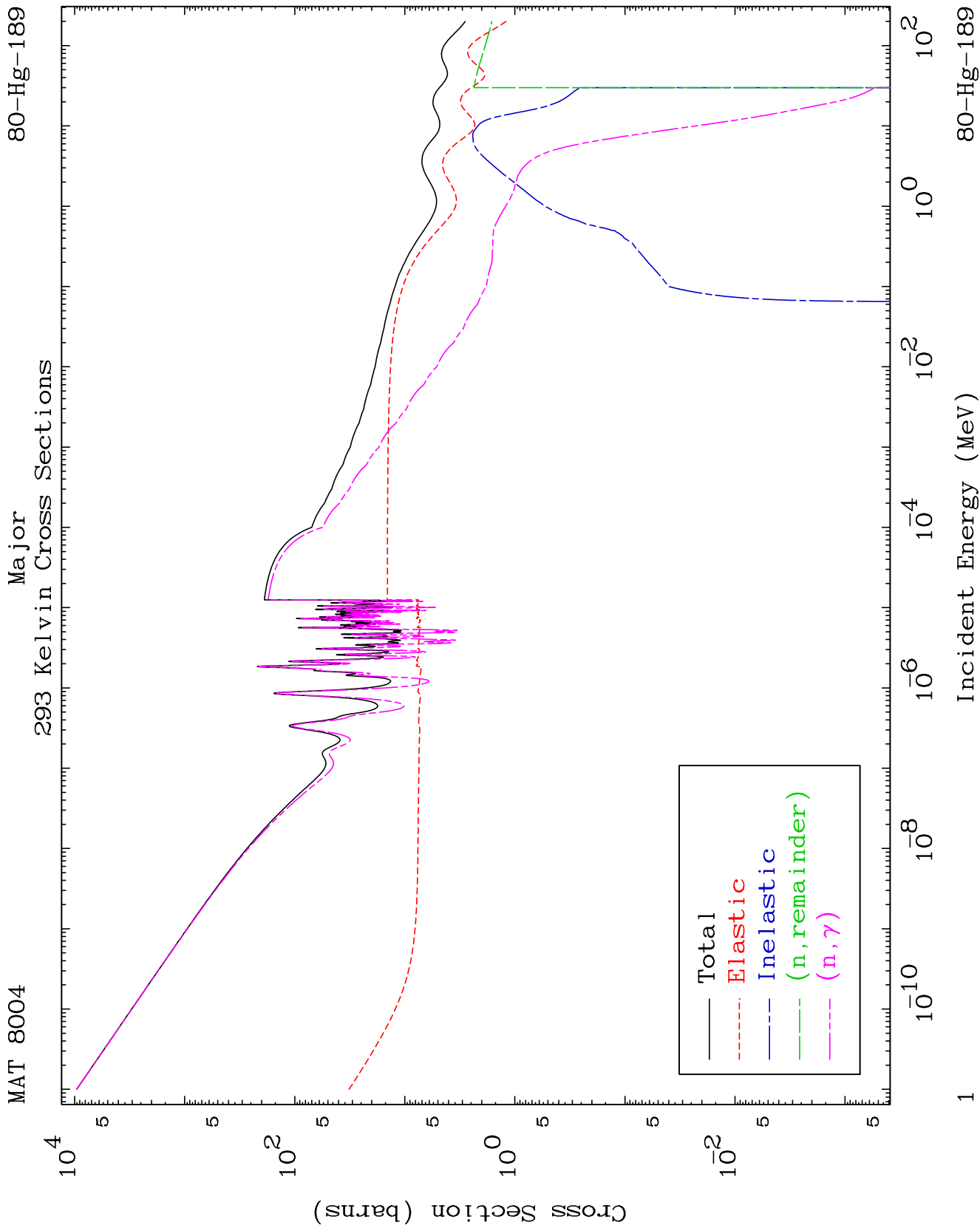
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Tele: 925-443-1911

E.Mail:redcullen1@comcast.net

Web:redcullen1.net/HOMEPAGE.NEW

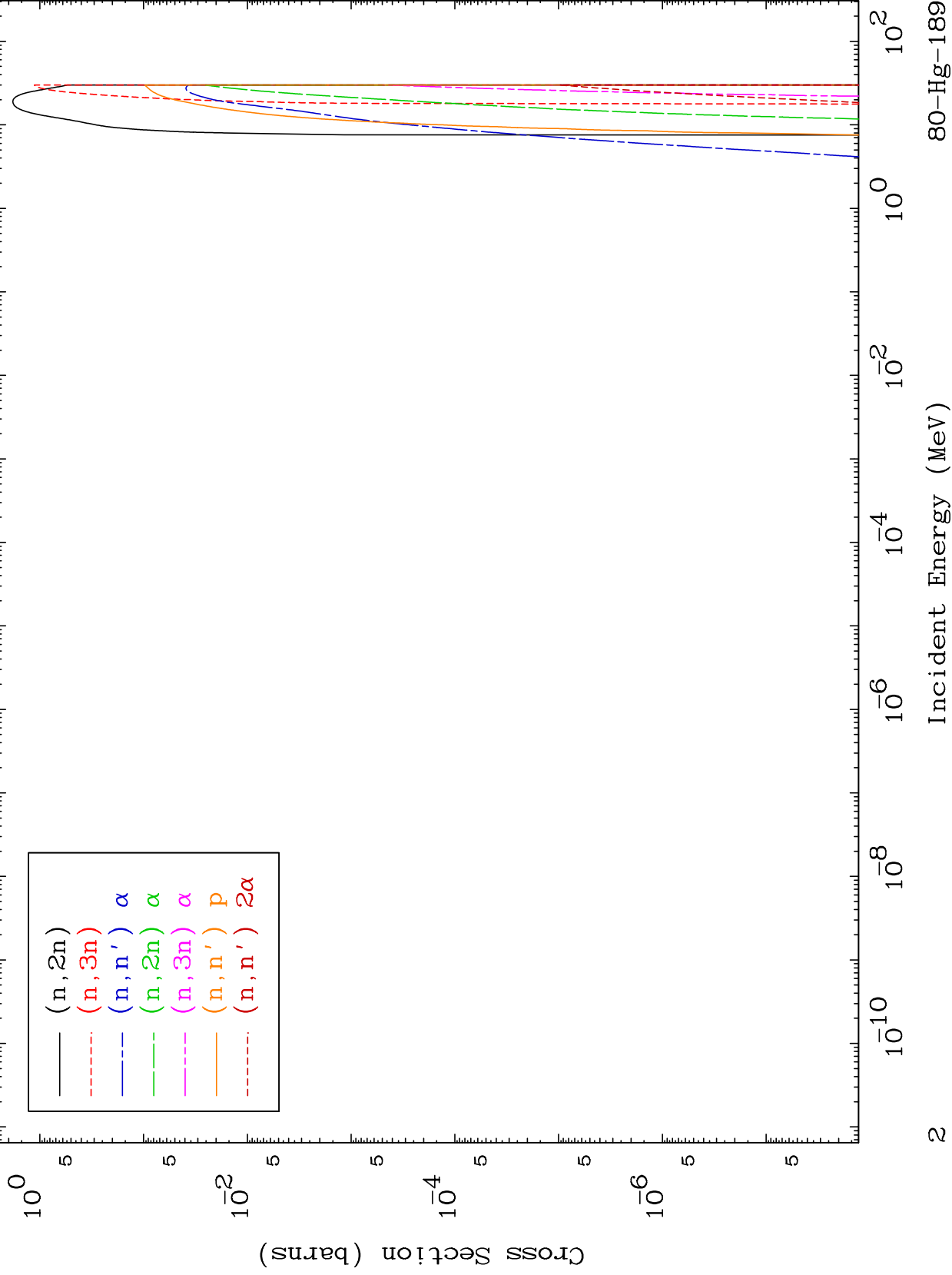
Press Mouse Button to Start



MAT 8004

Neutron Production
293 Kelvin Cross Sections

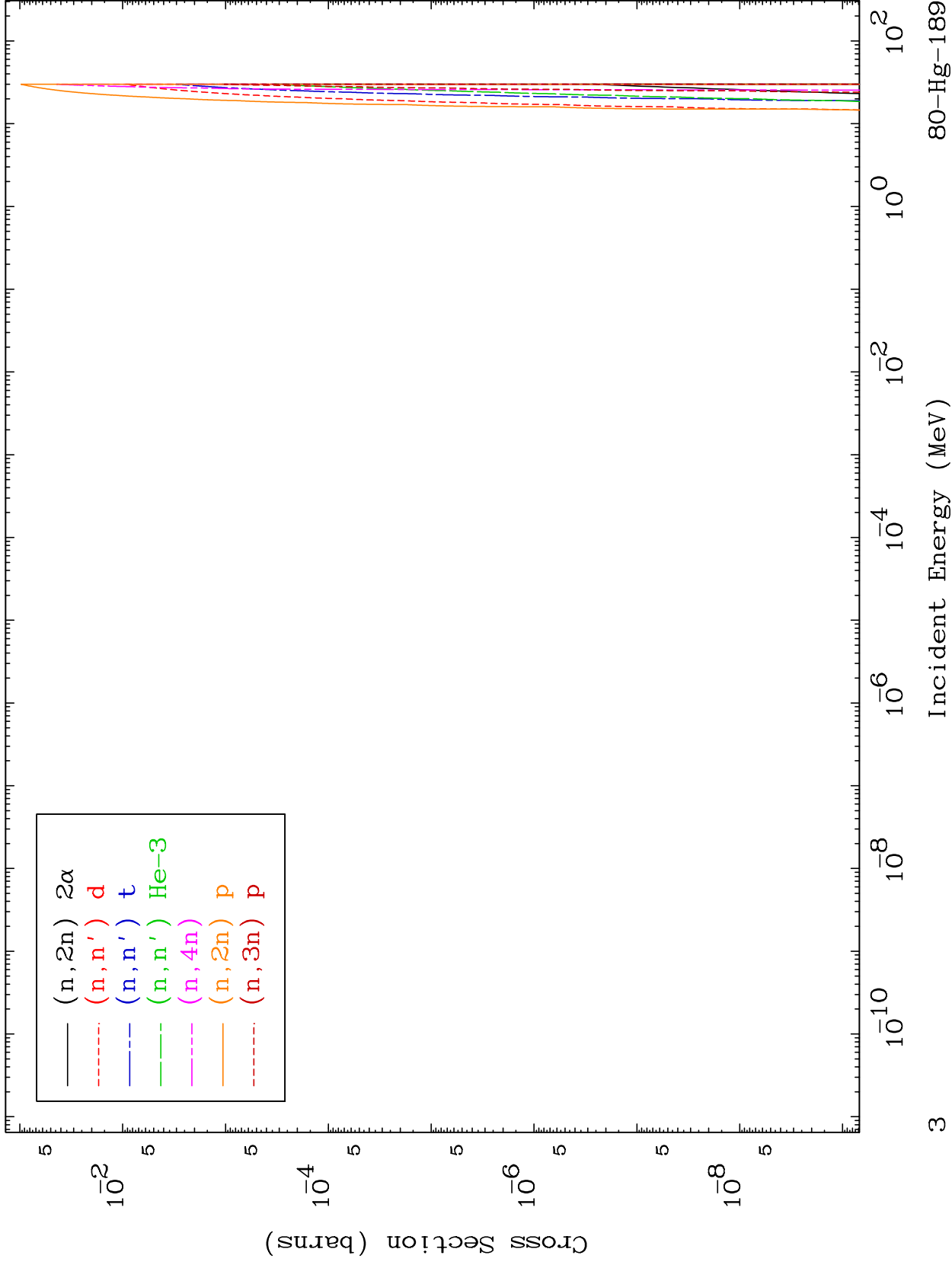
80-Hg-189



MAT 8004

Neutron Production
293 Kelvin Cross Sections

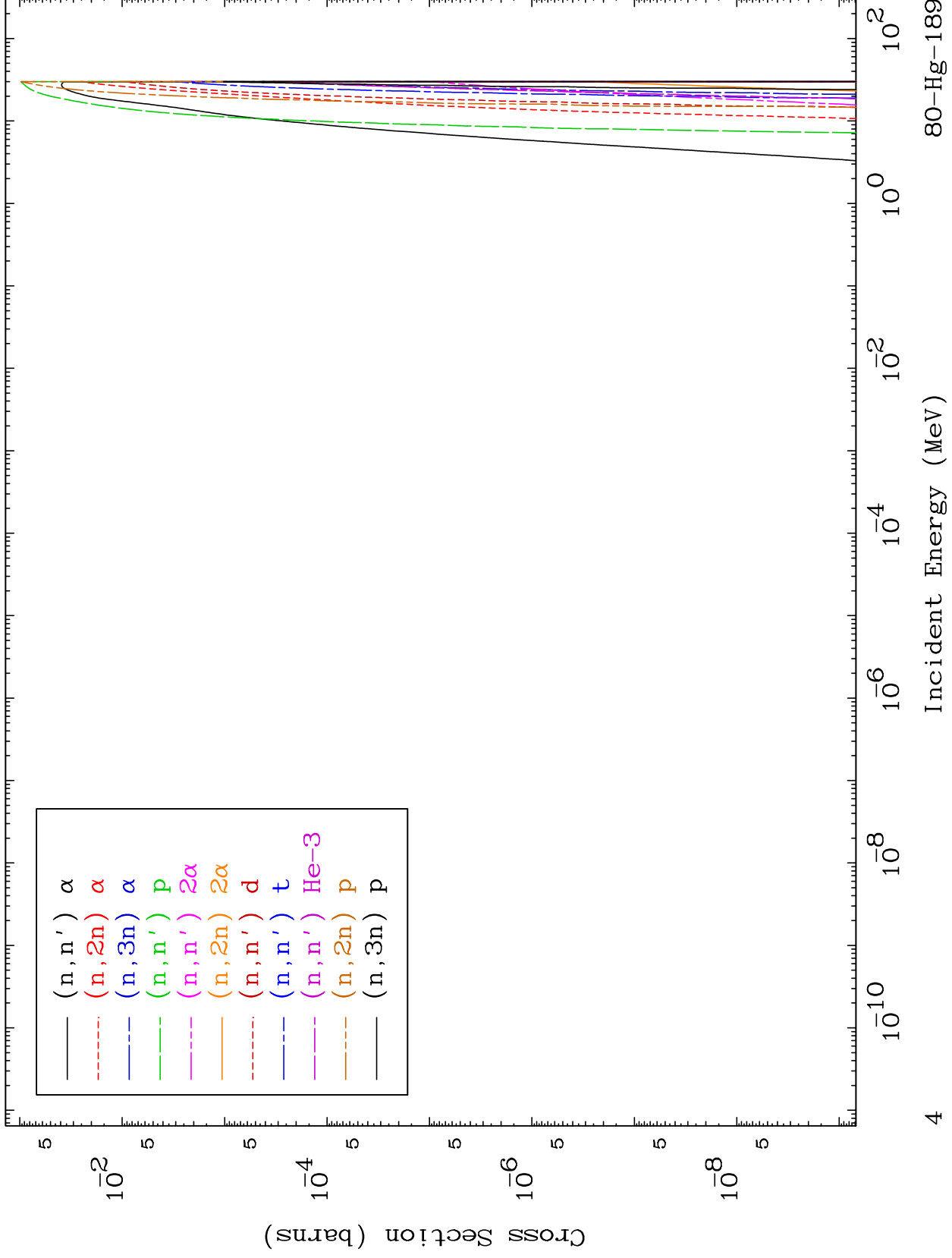
80-Hg-189



MAT 8004

Charged Particle
293 Kelvin Cross Sections

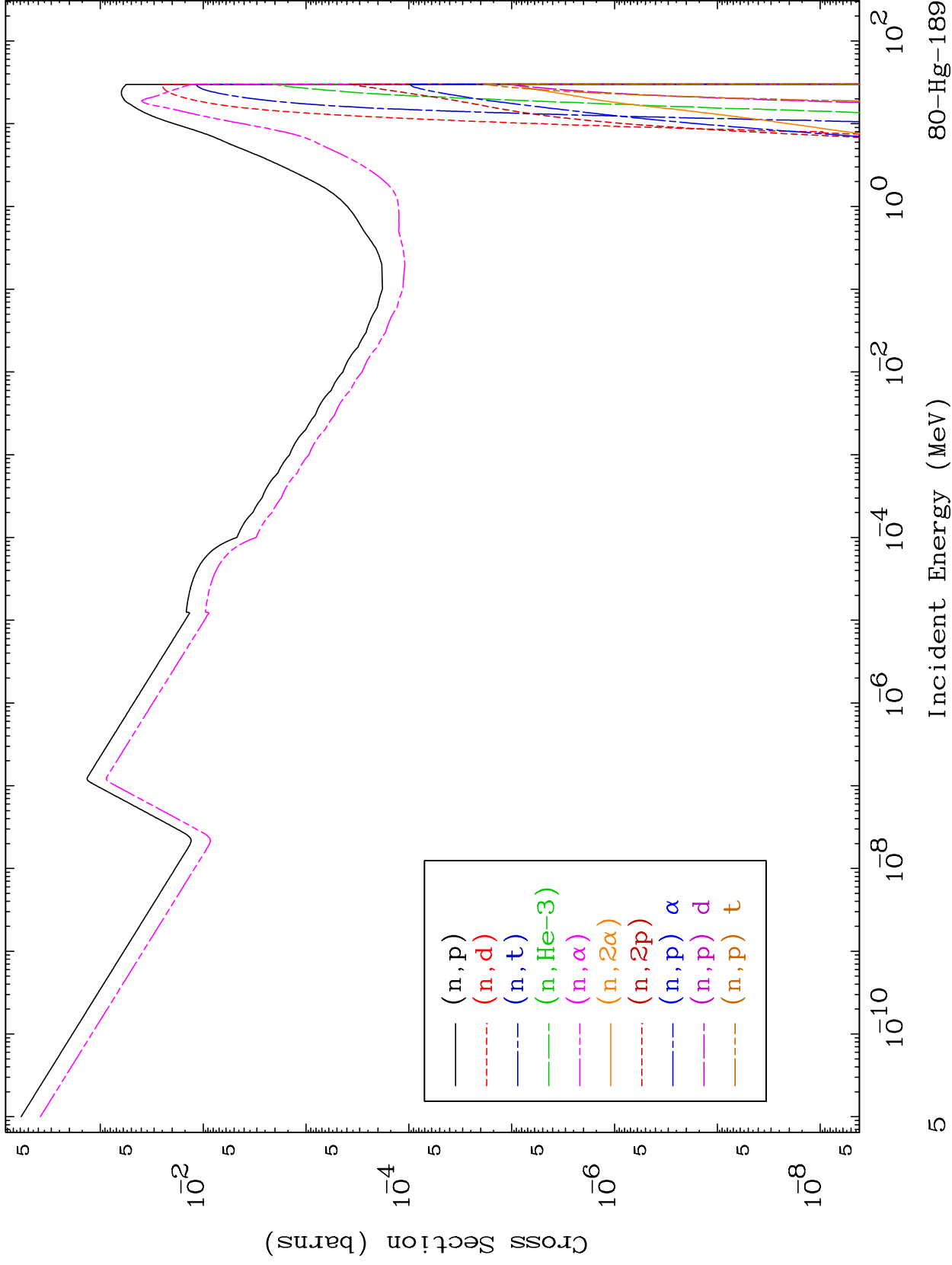
80-Hg-189



MAT 8004

Charged Particle
293 Kelvin Cross Sections

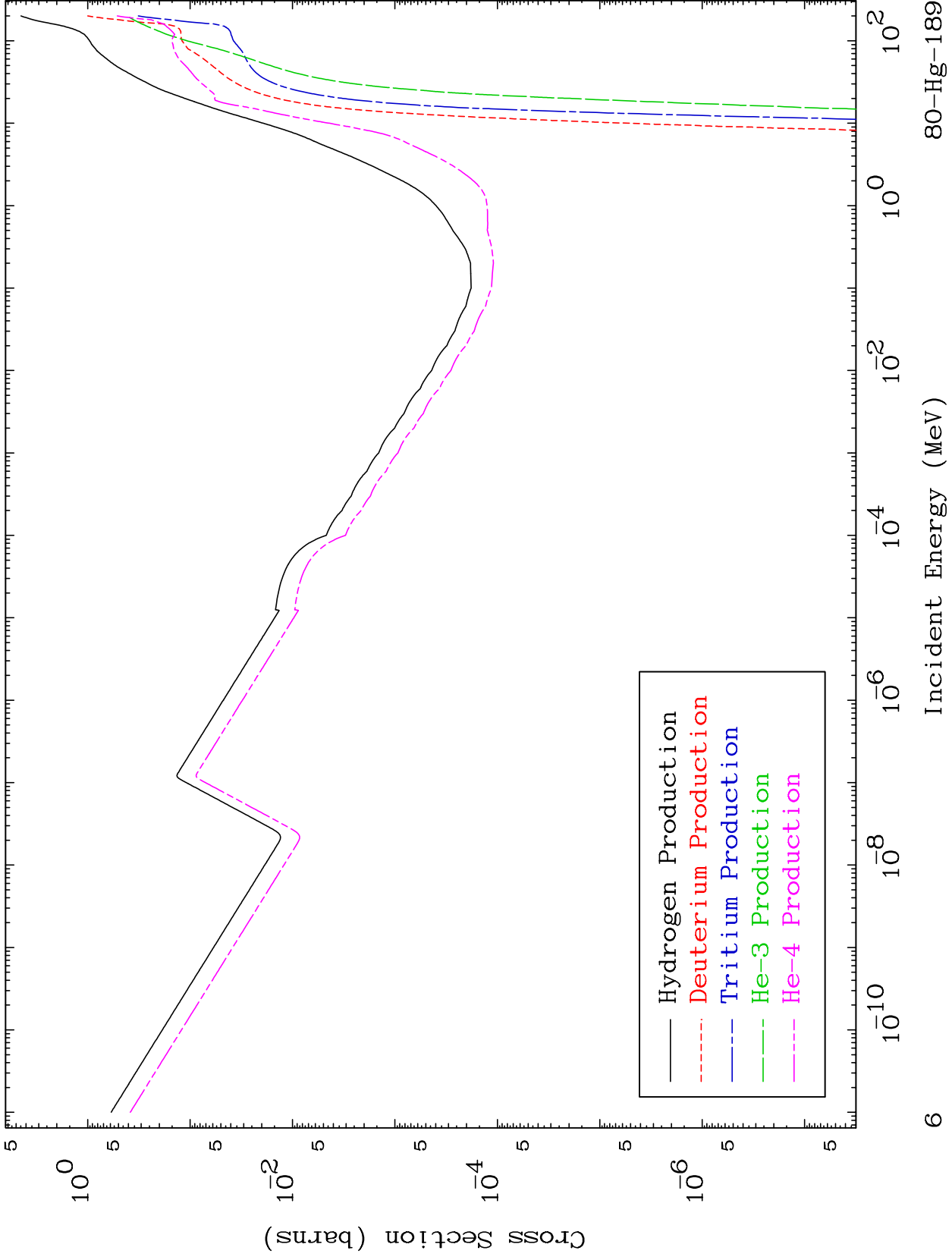
80-Hg-189



MAT 8004

Particle Production
293 Kelvin Cross Sections

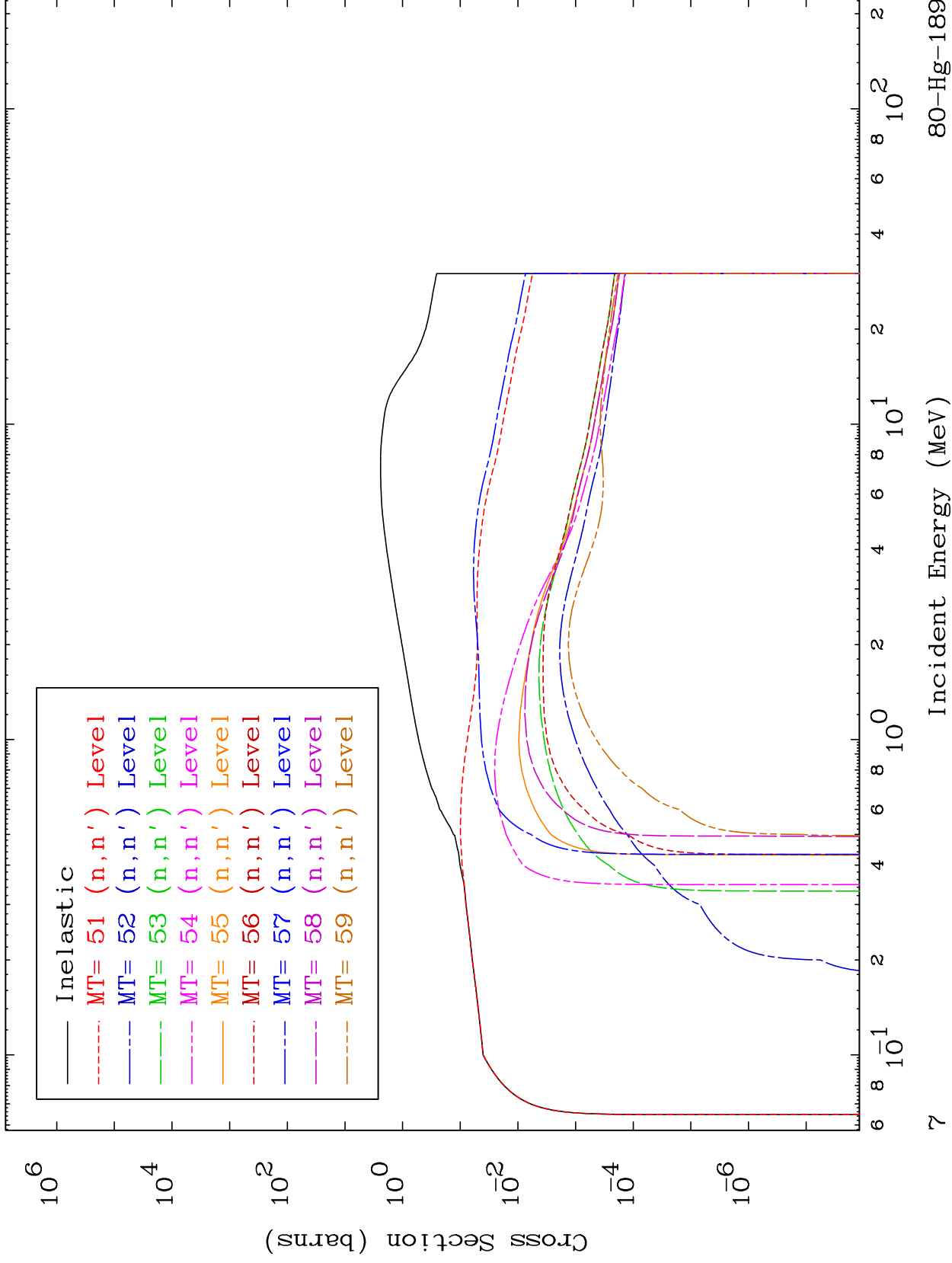
80-Hg-189



MAT 8004

(n,n') Level
293 Kelvin Cross Sections

80-Hg-189

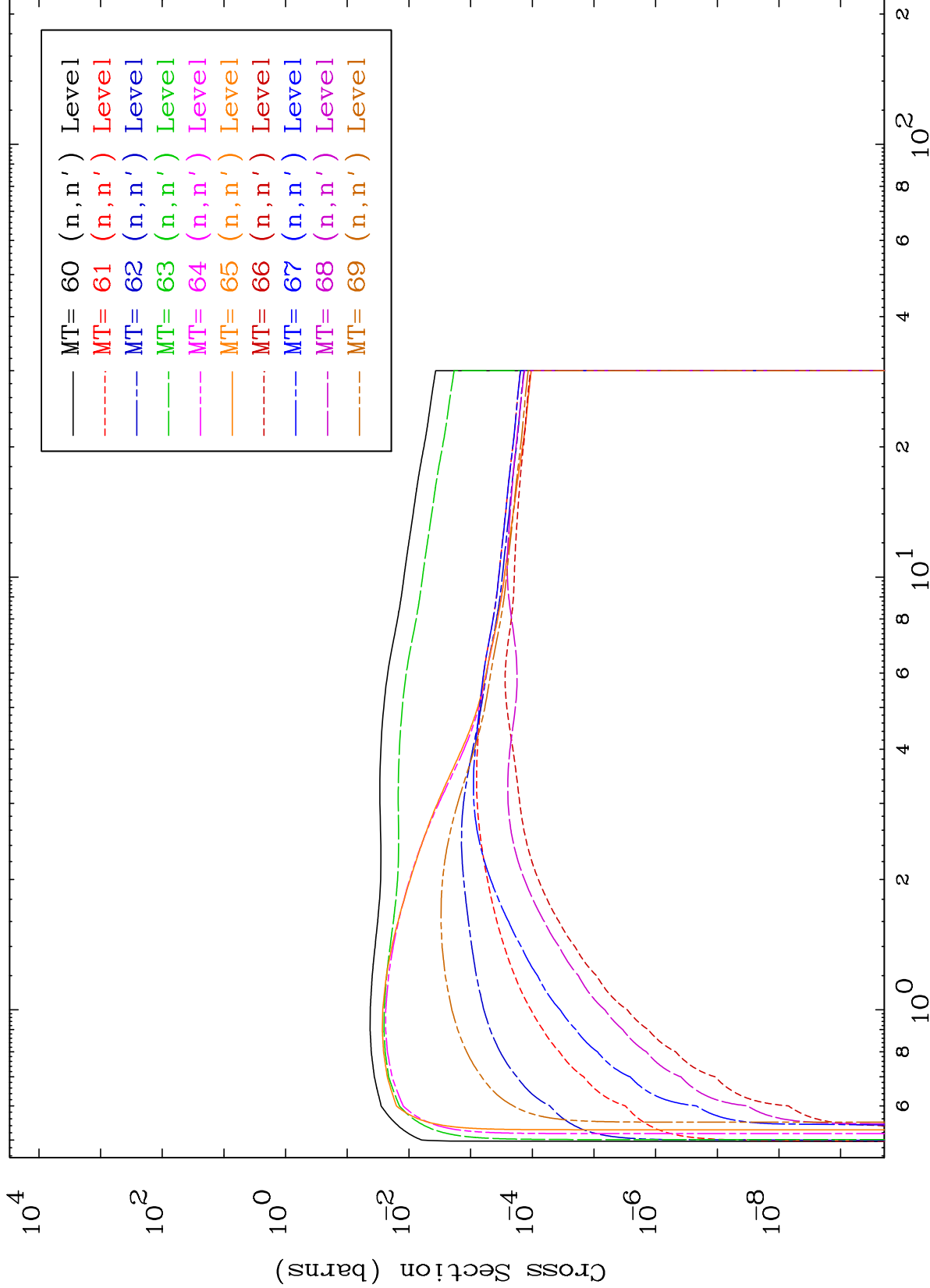


MAT 8004

(n,n') Level

80-Hg-189

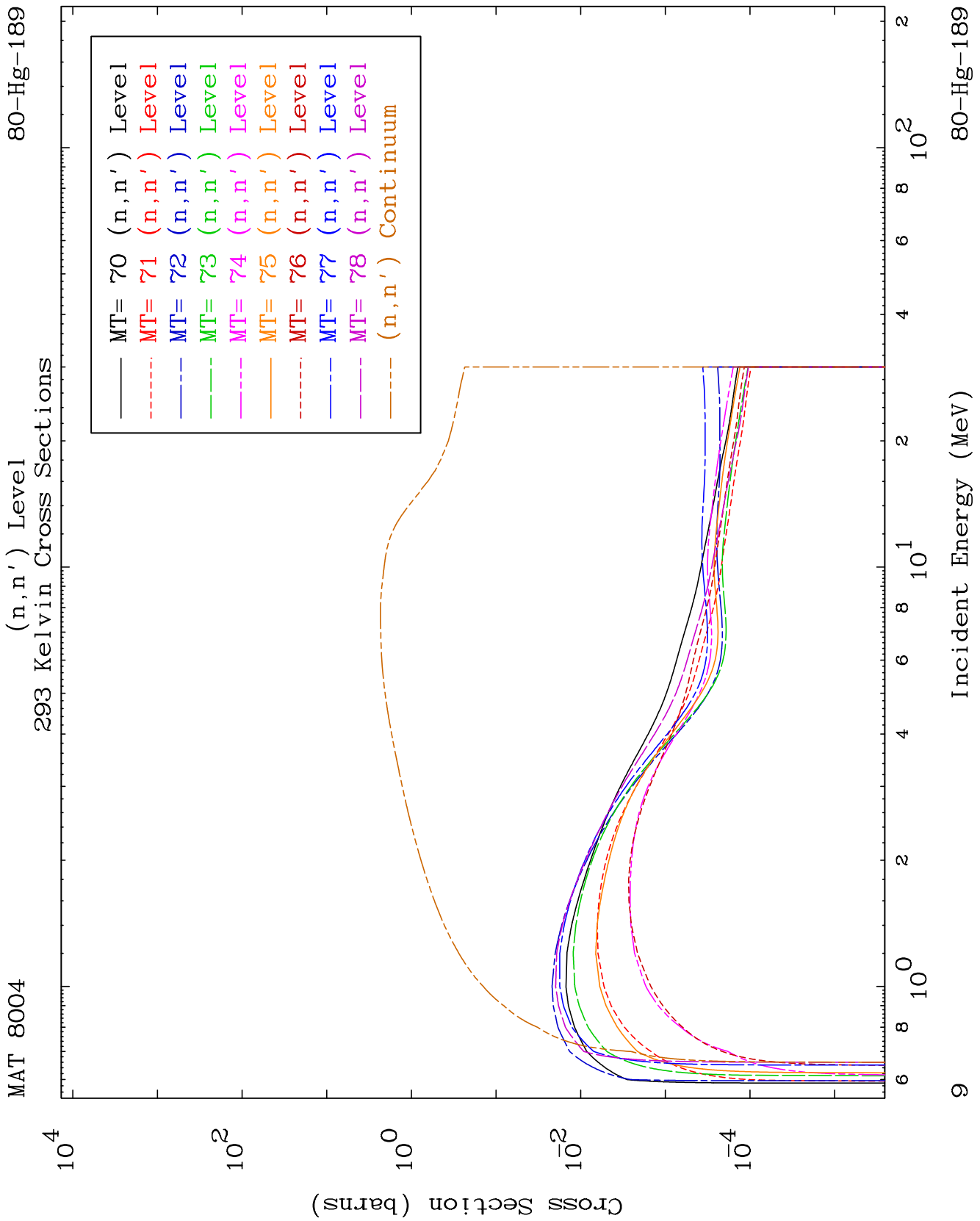
293 Kelvin Cross Sections



8

Incident Energy (MeV)

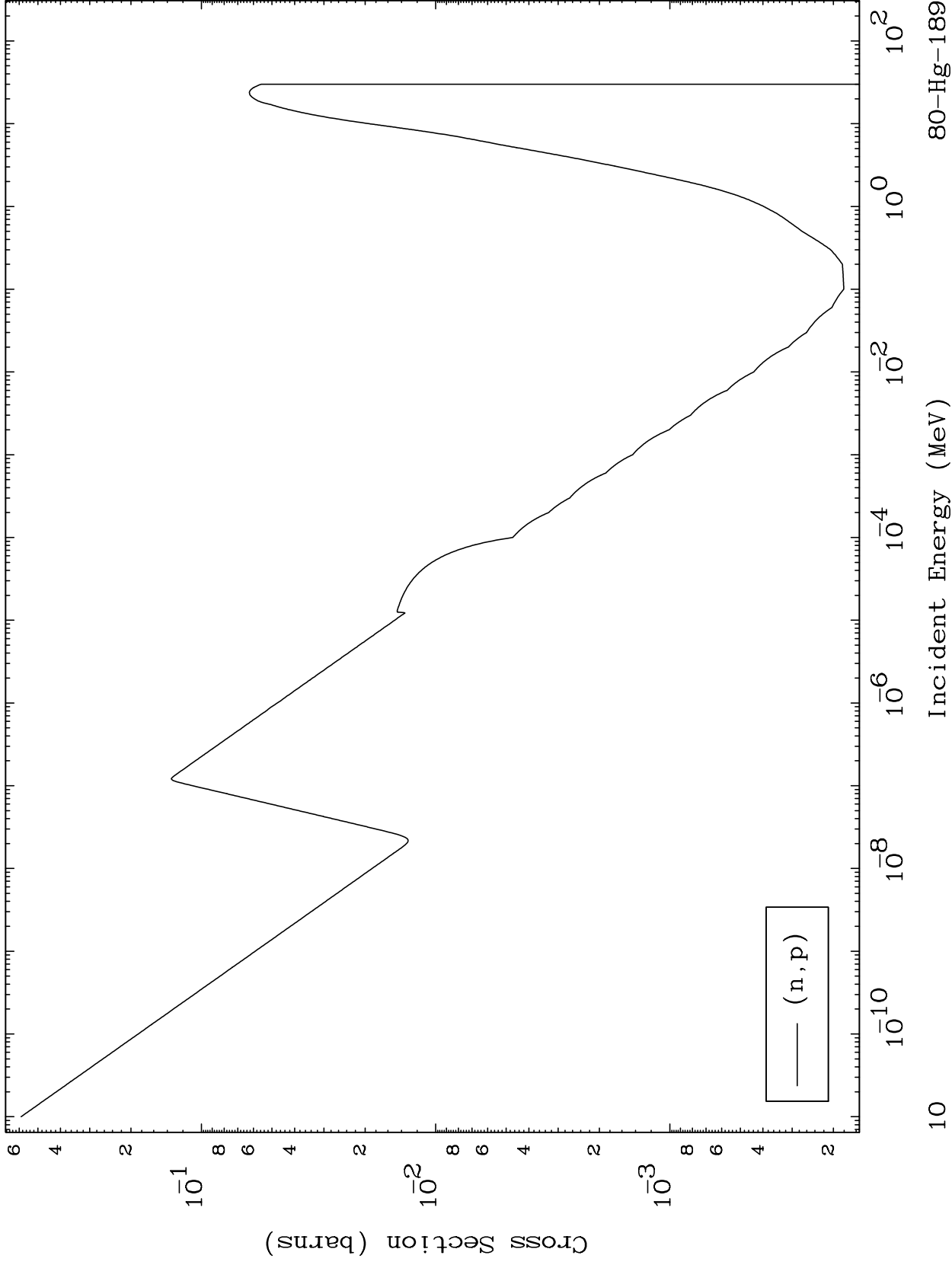
80-Hg-189



MAT 8004

(n,p) Levels
293 Kelvin Cross Sections

80-Hg-189



10

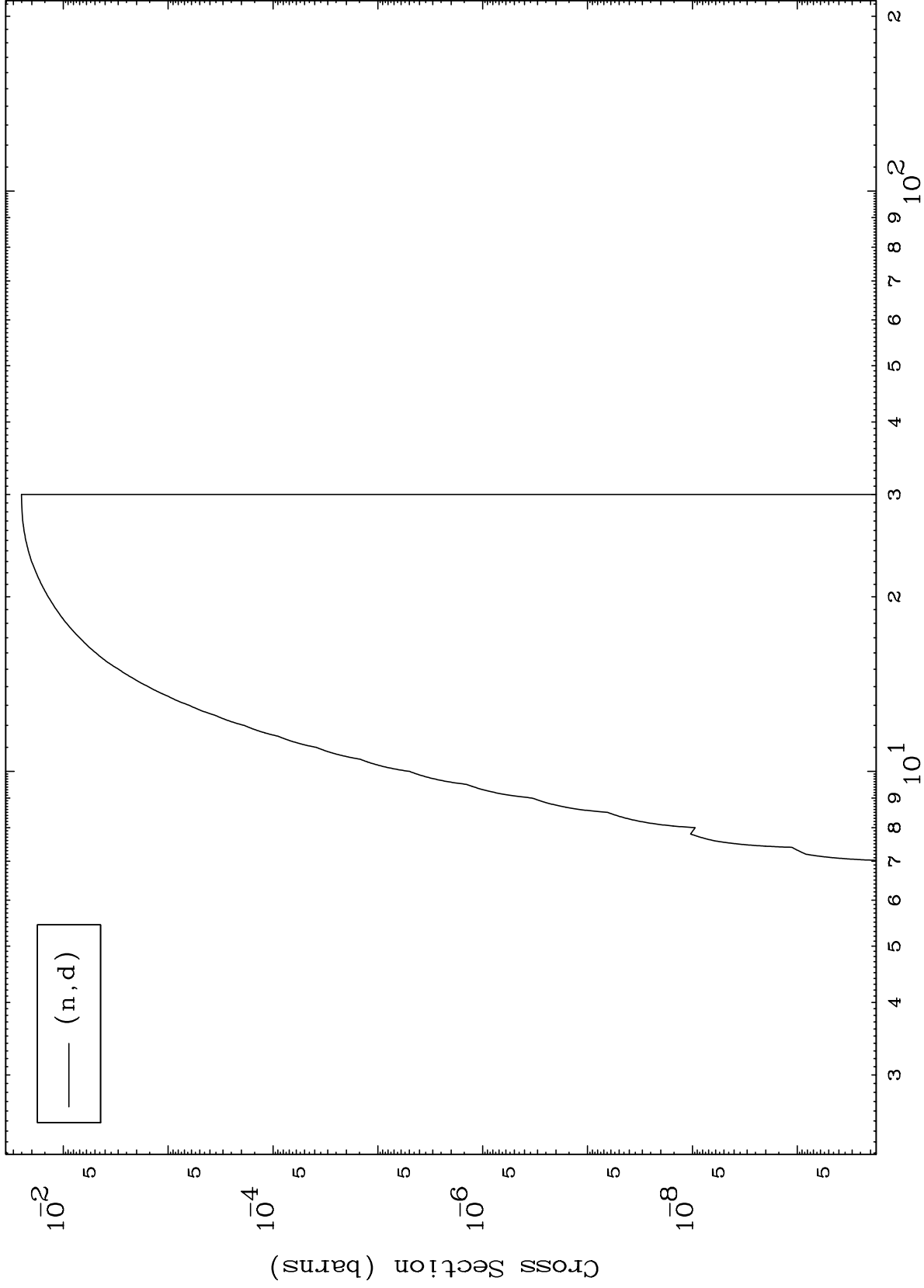
Incident Energy (MeV)

80-Hg-189

MAT 8004

(n,d) Levels
293 Kelvin Cross Sections

80-Hg-189



11

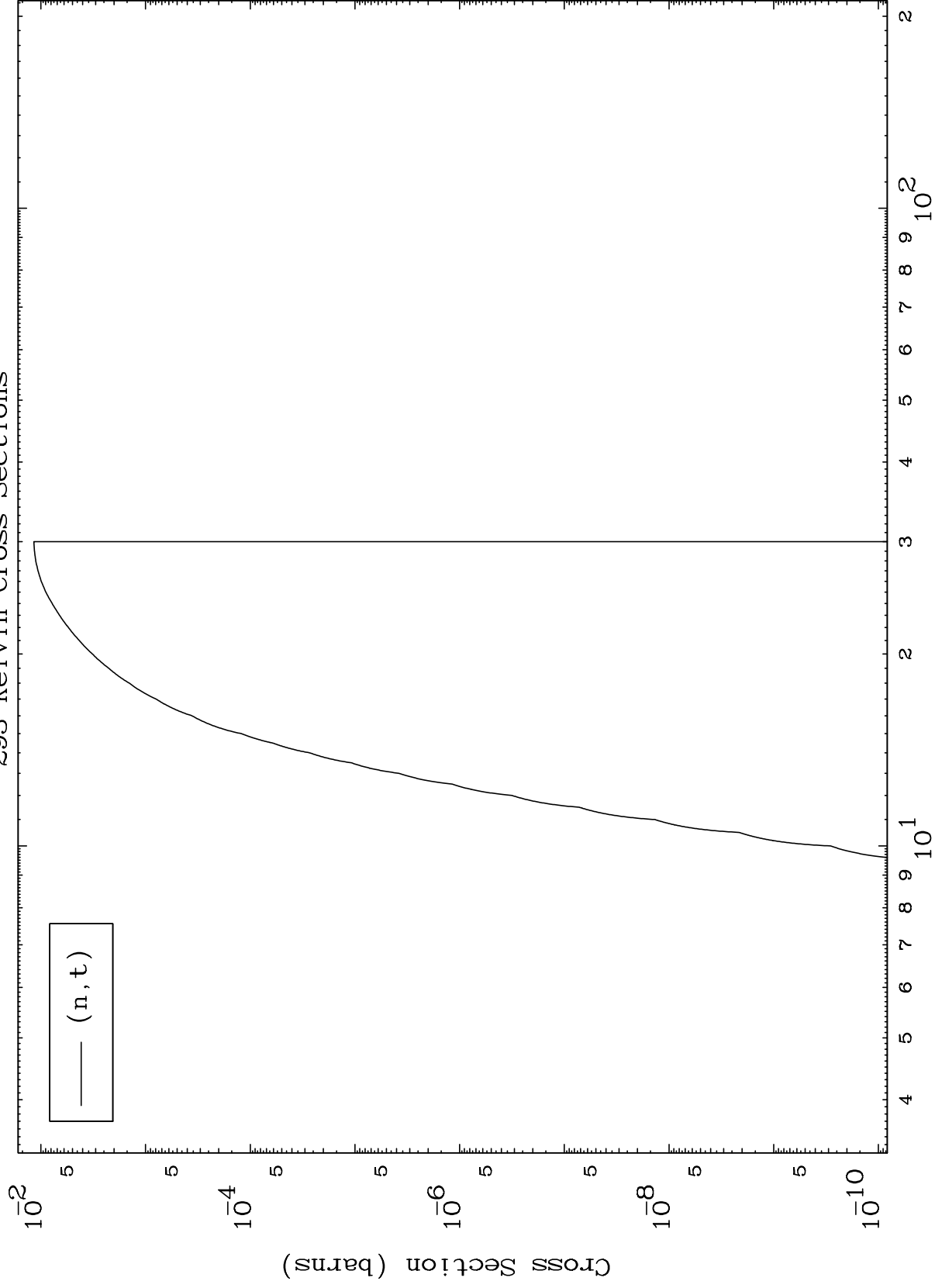
Incident Energy (MeV)

80-Hg-189

MAT 8004

80-Hg-189

(n,t) Levels
293 Kelvin Cross Sections



80-Hg-189

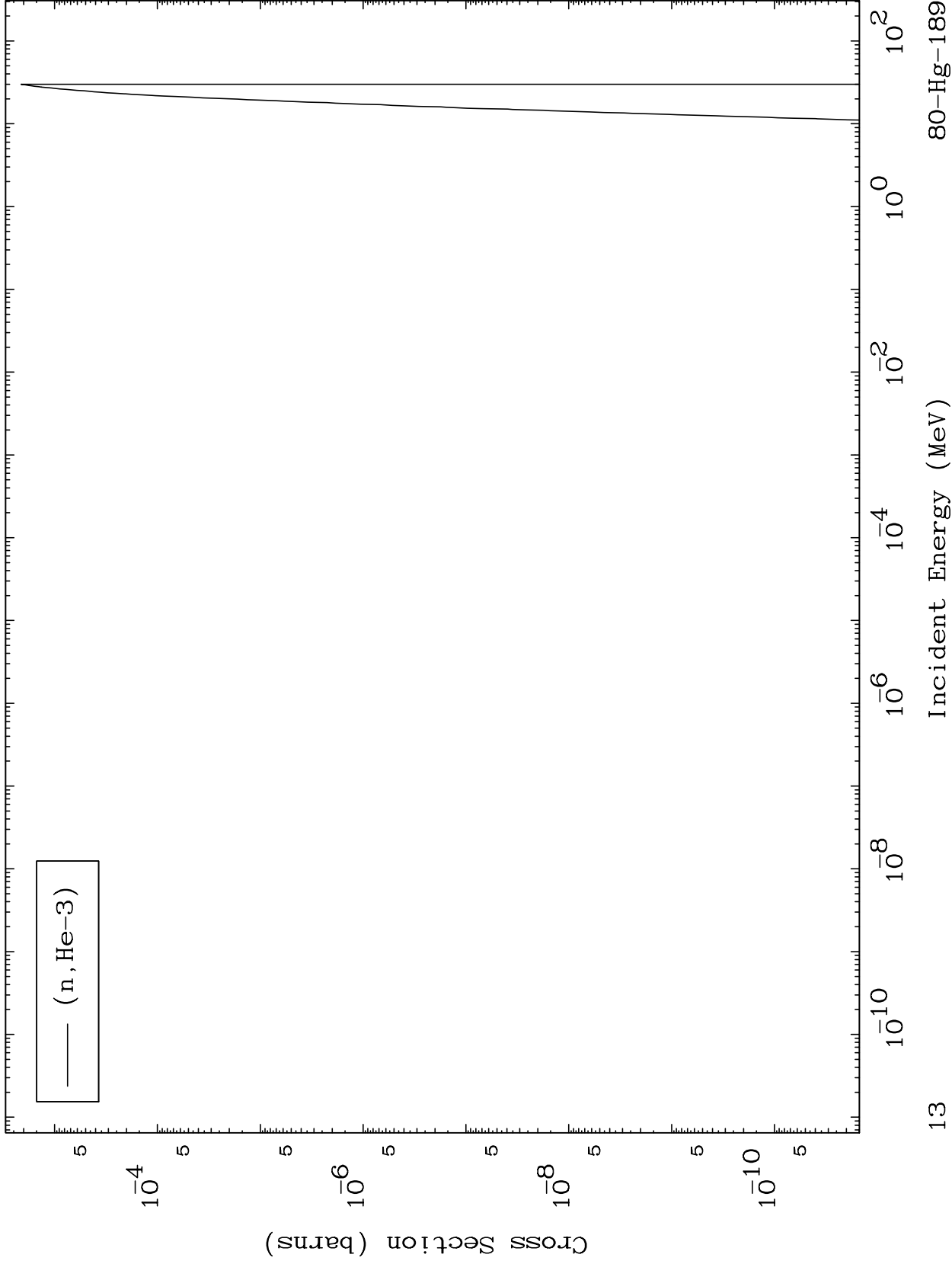
Incident Energy (MeV)

12

MAT 8004

(n,He3) Levels
293 Kelvin Cross Sections

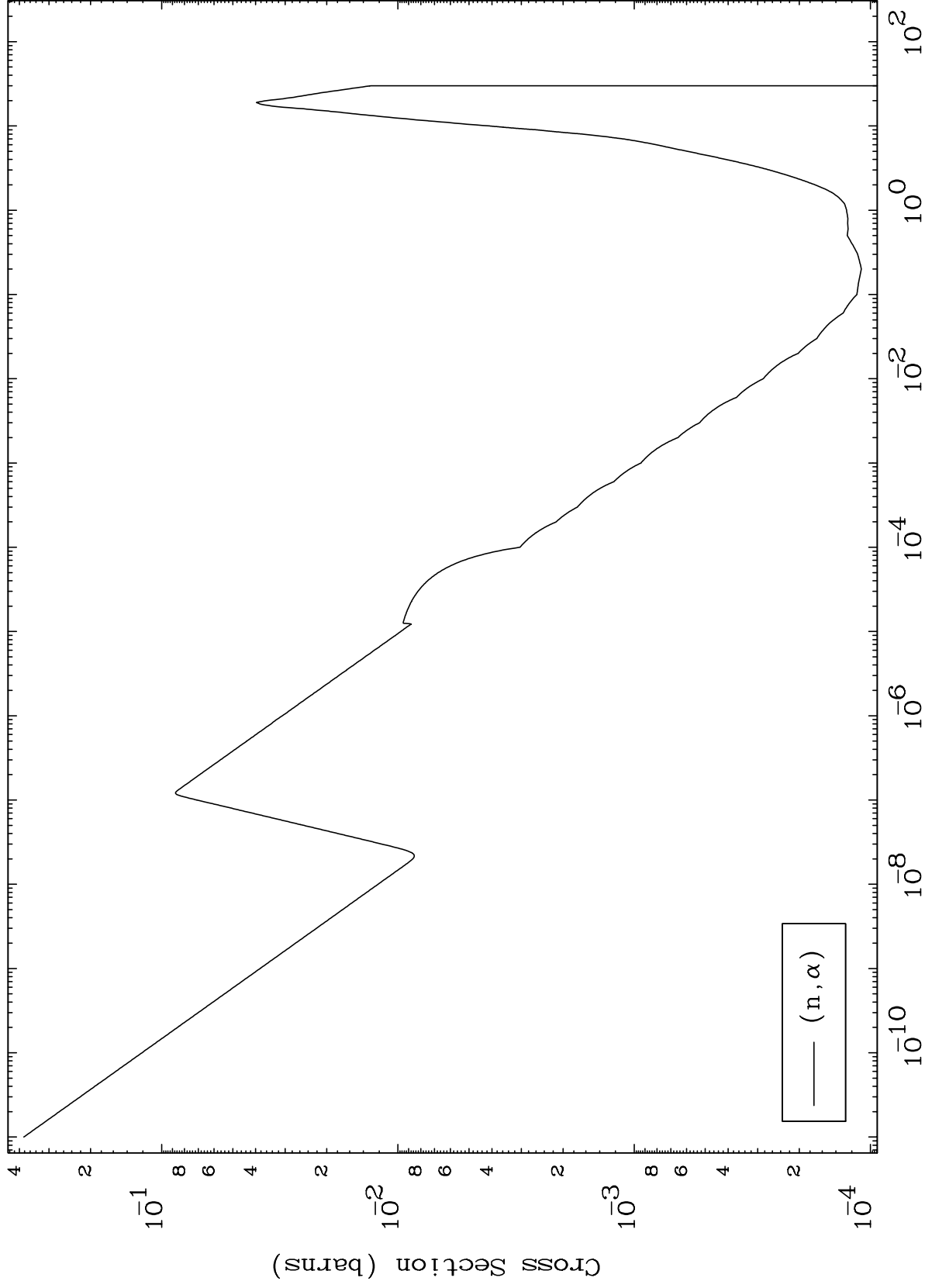
80-Hg-189



MAT 8004

(n,α) Levels
293 Kelvin Cross Sections

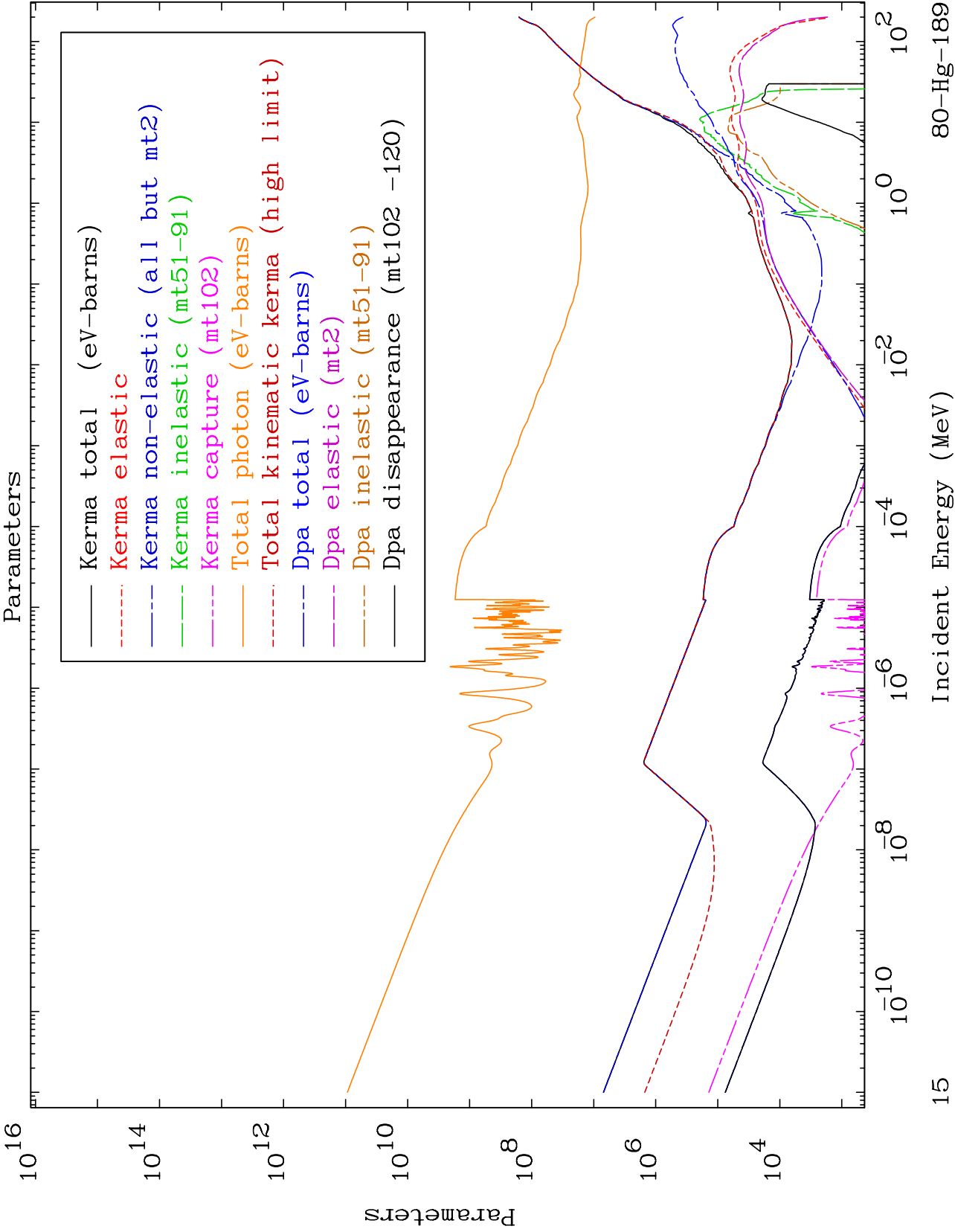
80-Hg-189

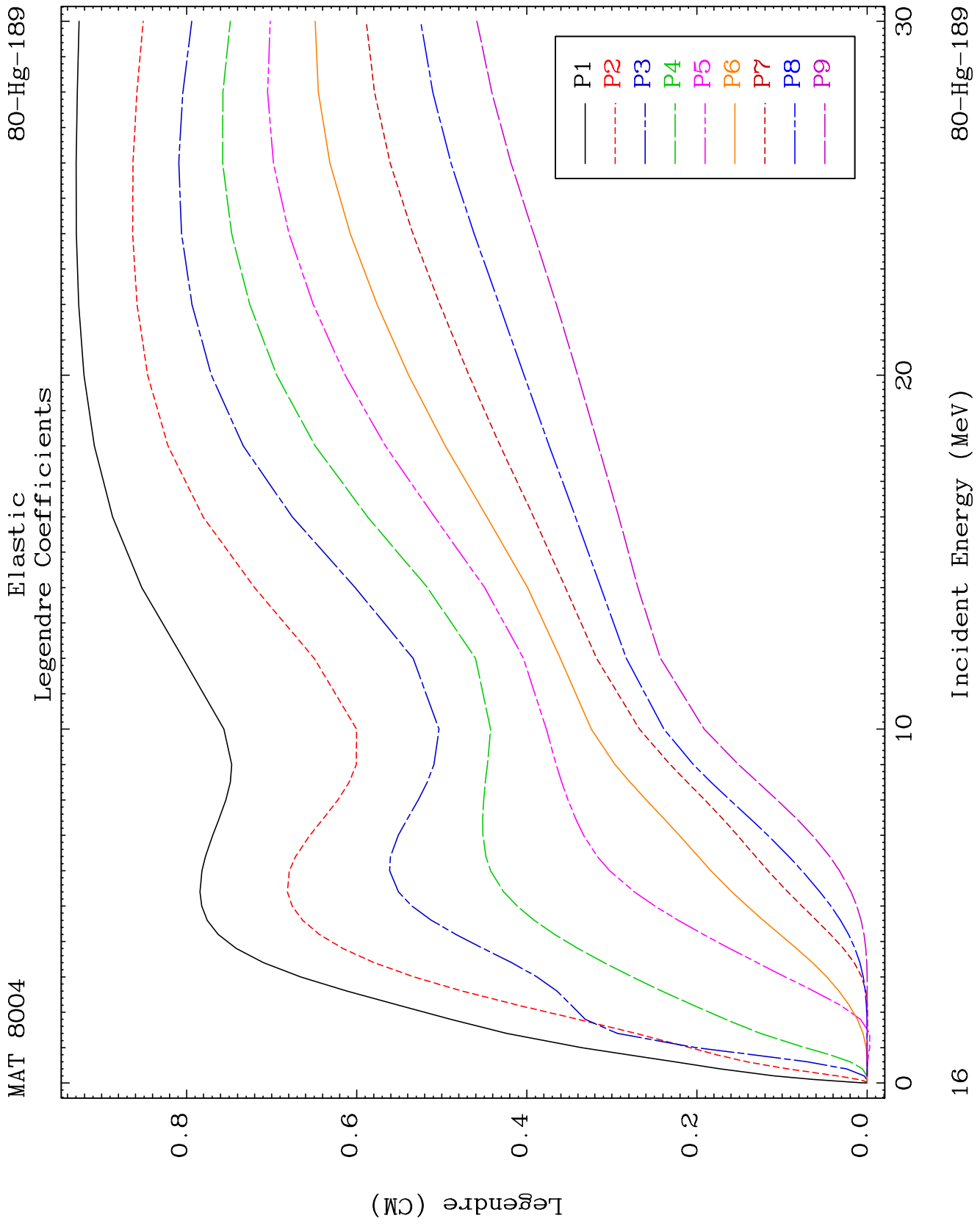


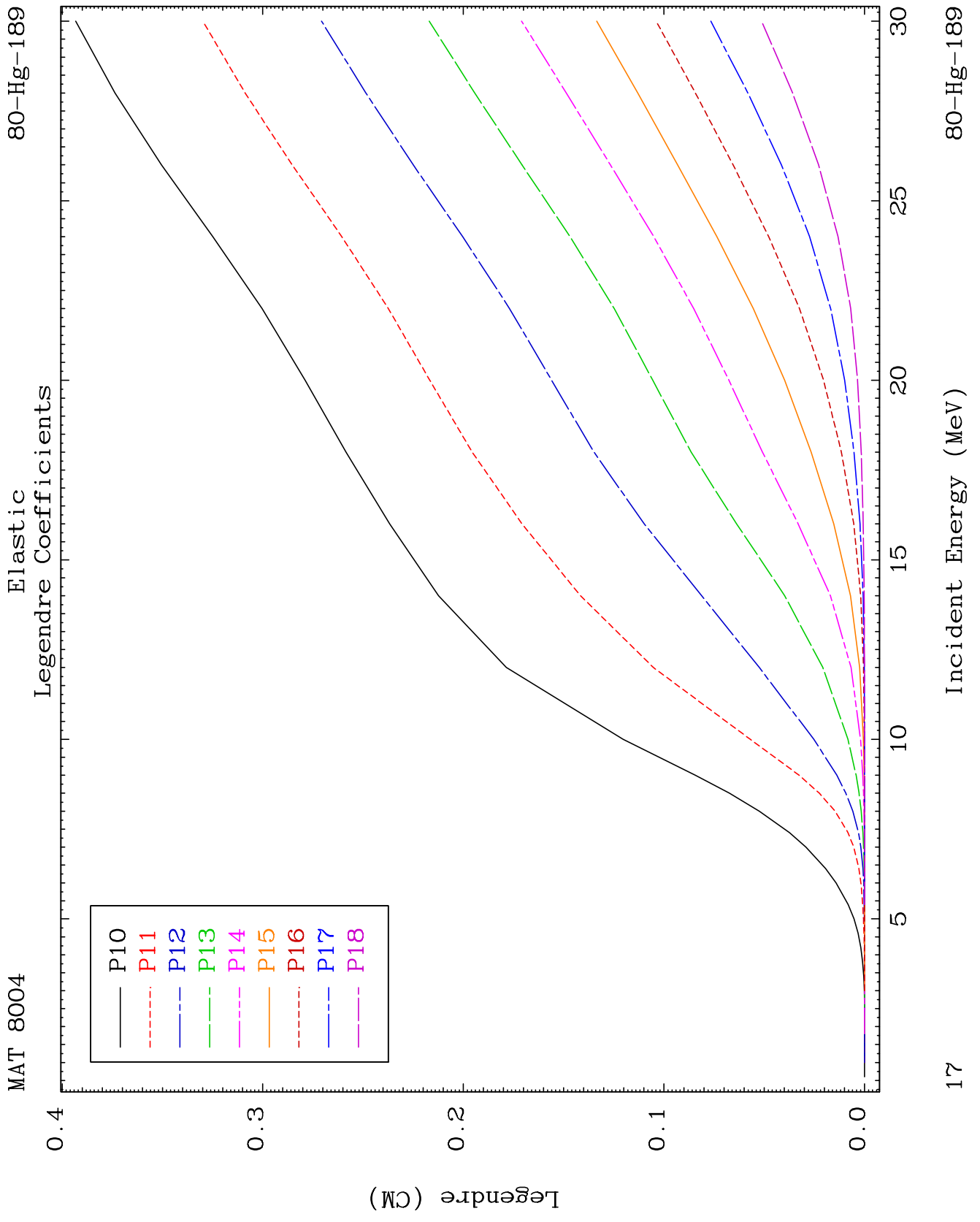
14

Incident Energy (MeV)

80-Hg-189



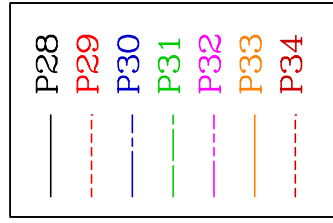




MAT 8004

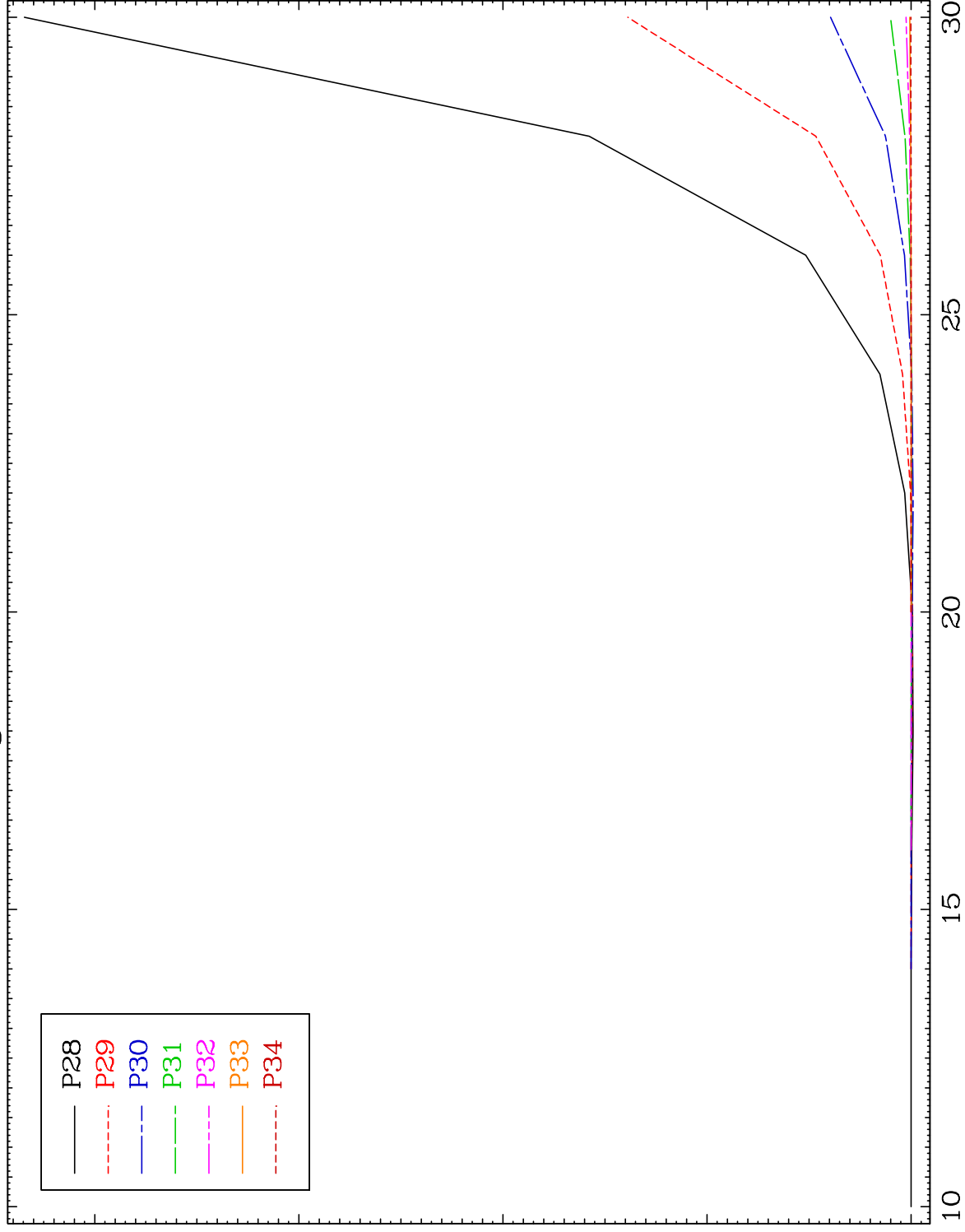
Elastic
Legendre Coefficients

80-Hg-189



$\times 10^{-6}$

Legendre (CM)



10

Incident Energy (MeV)

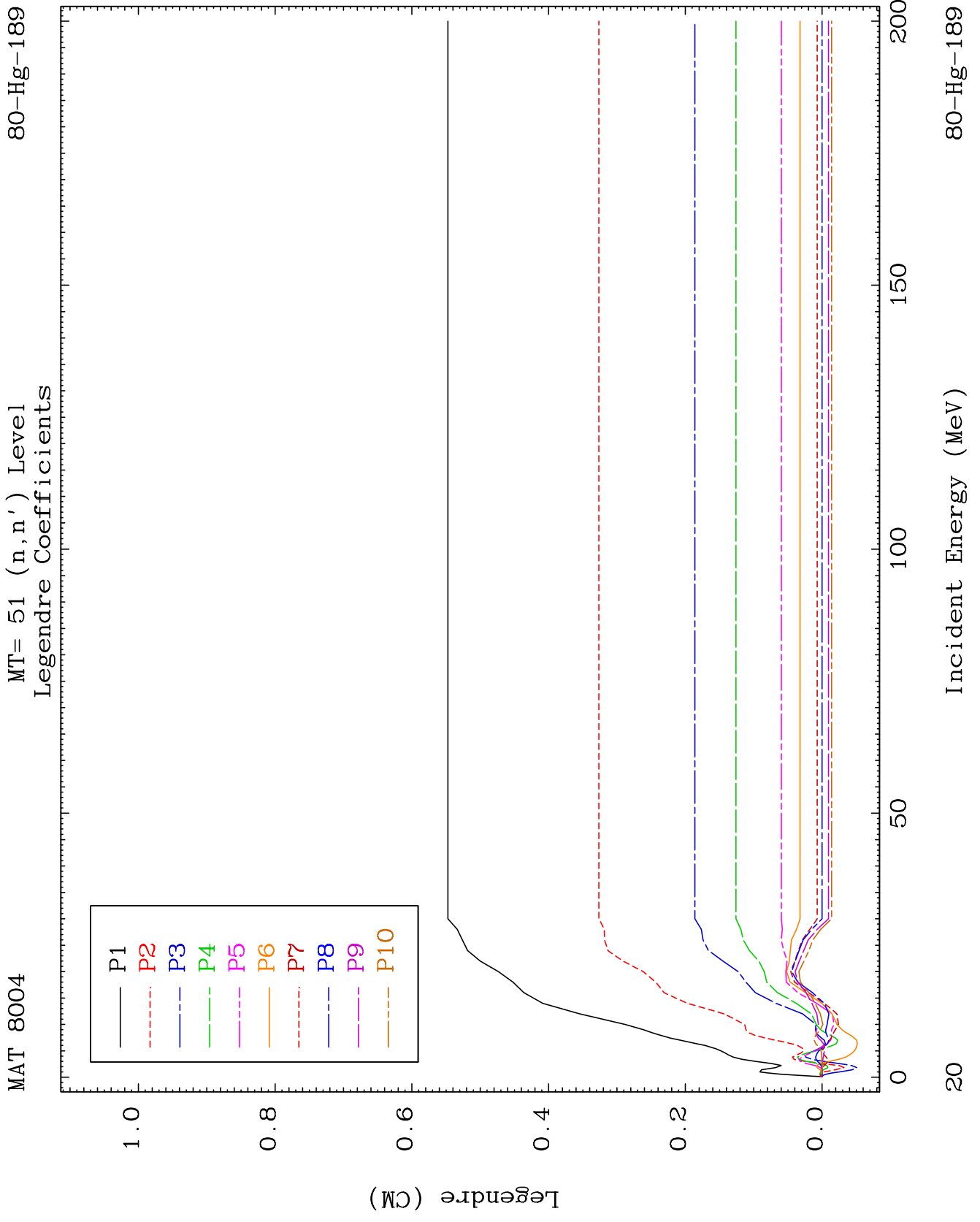
80-Hg-189

15

20

25

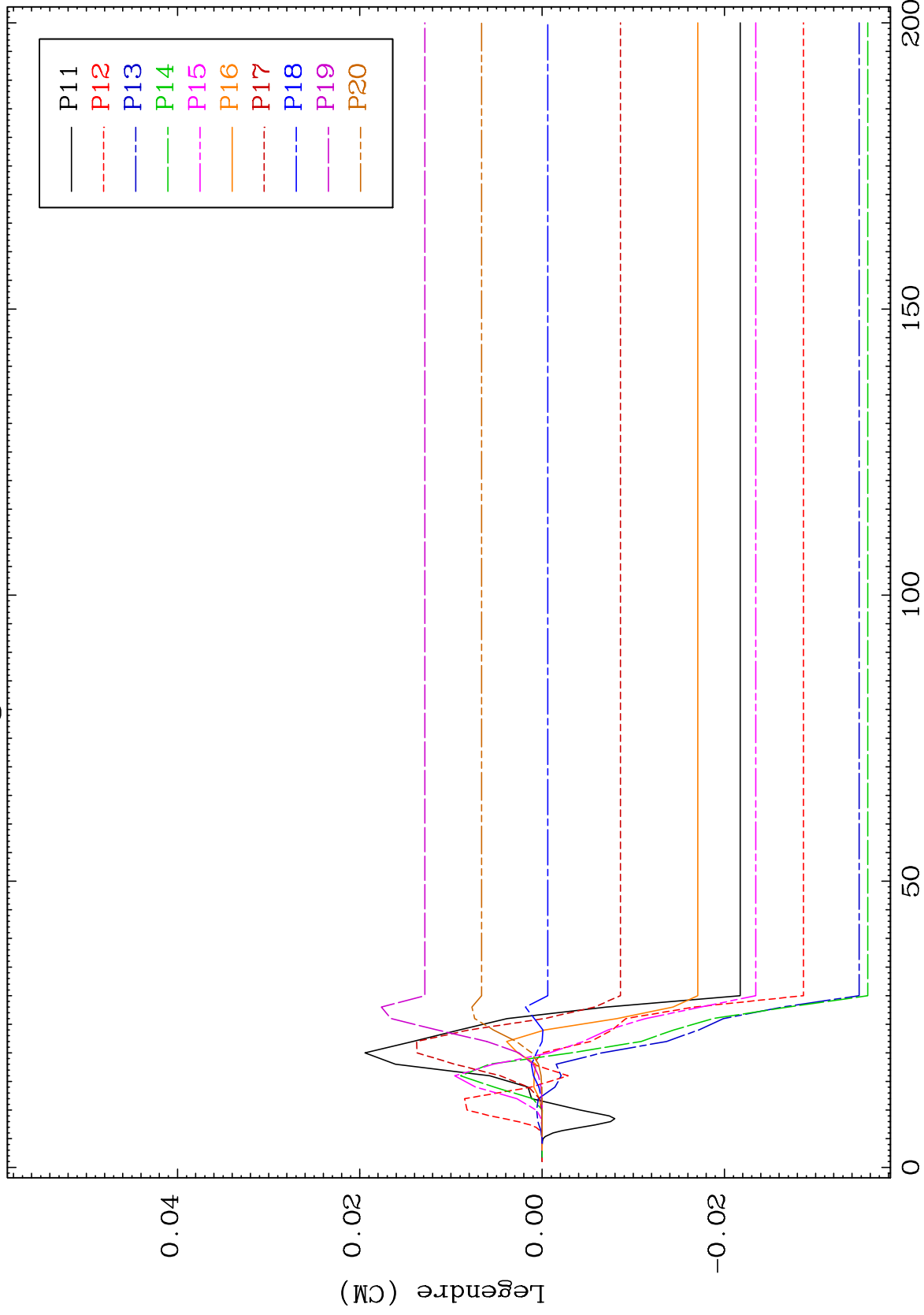
30



MAT 8004

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

80-Hg-189



21

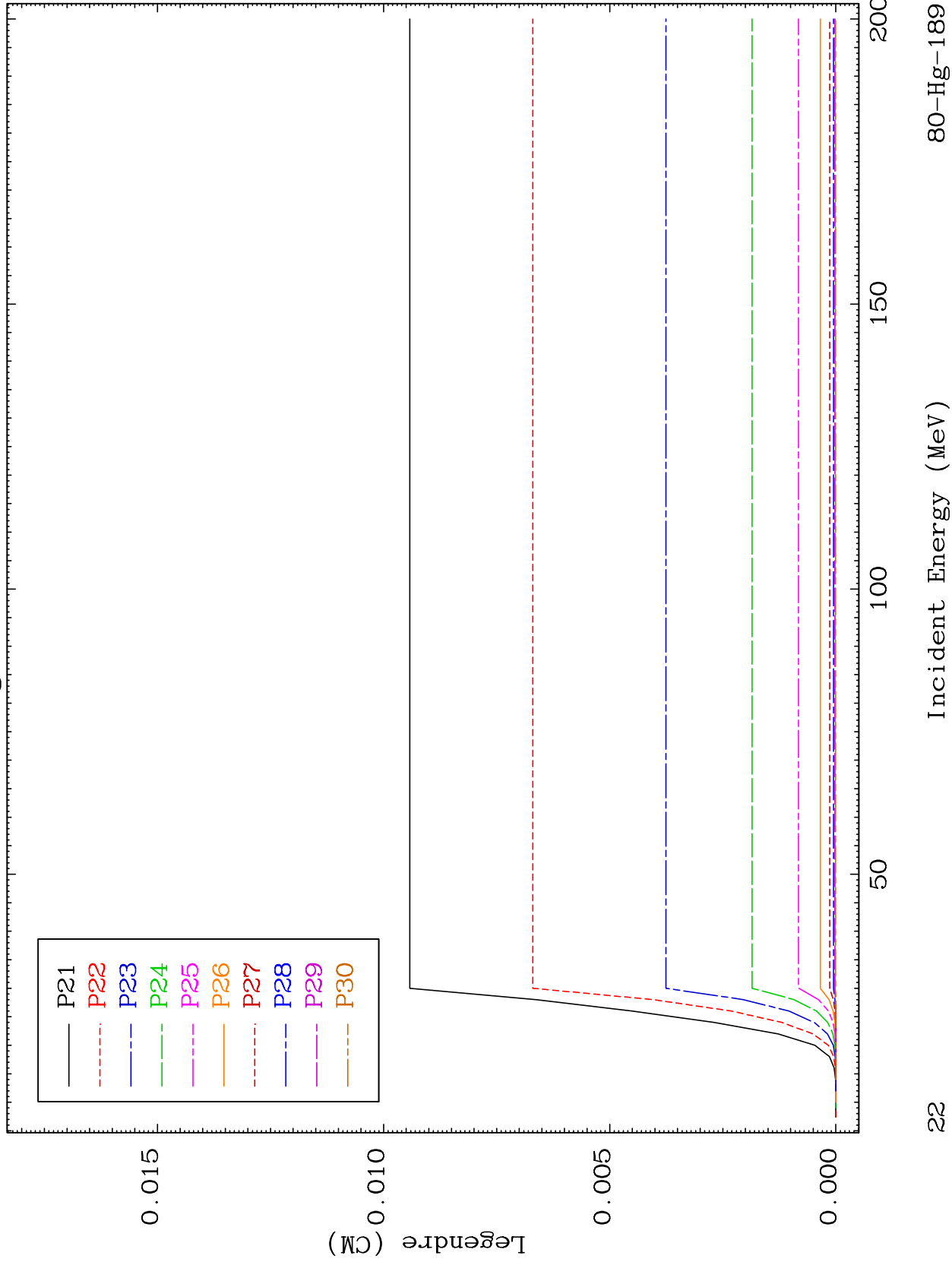
Incident Energy (MeV)

80-Hg-189

MAT 8004

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

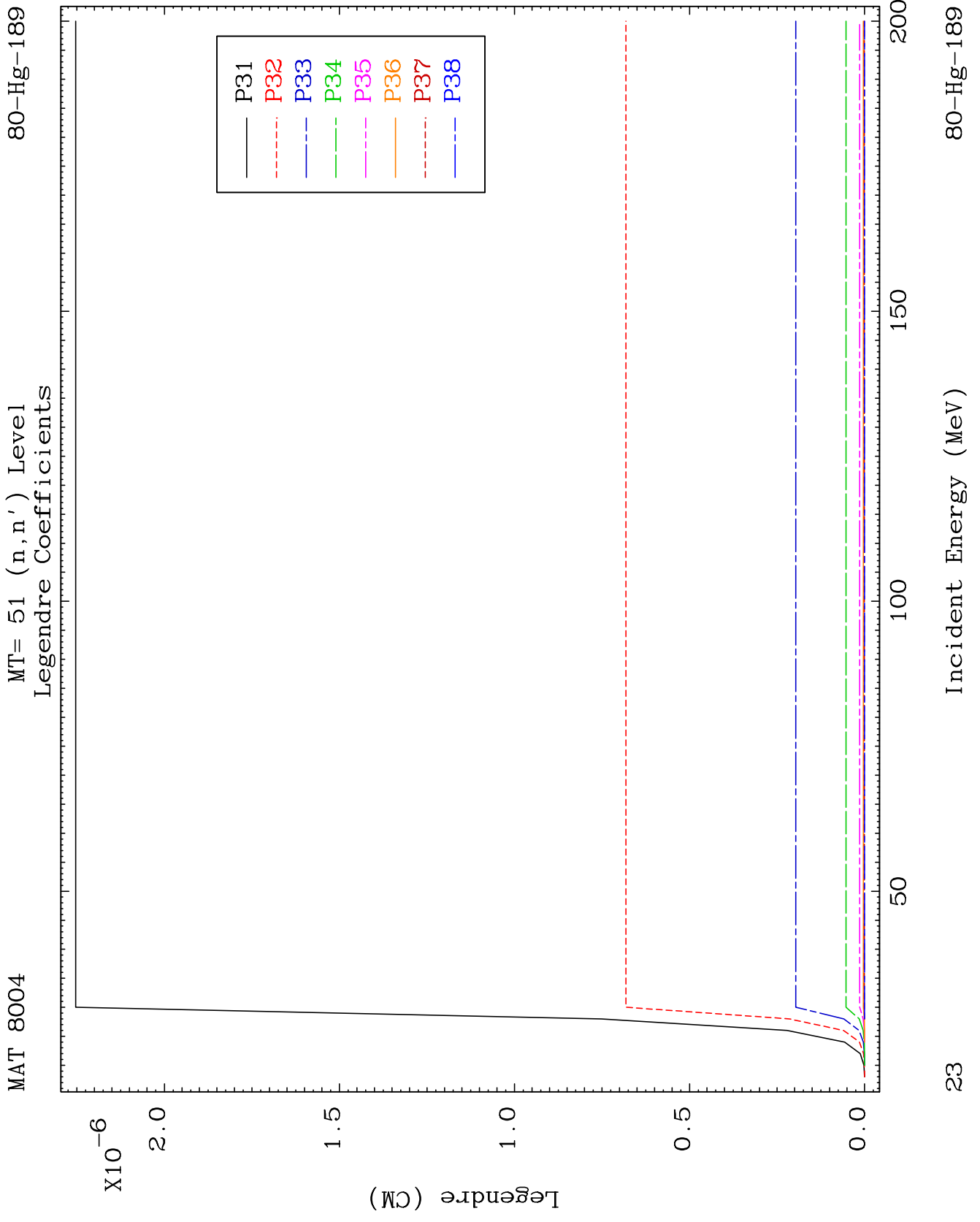
80-Hg-189



22

Incident Energy (MeV)

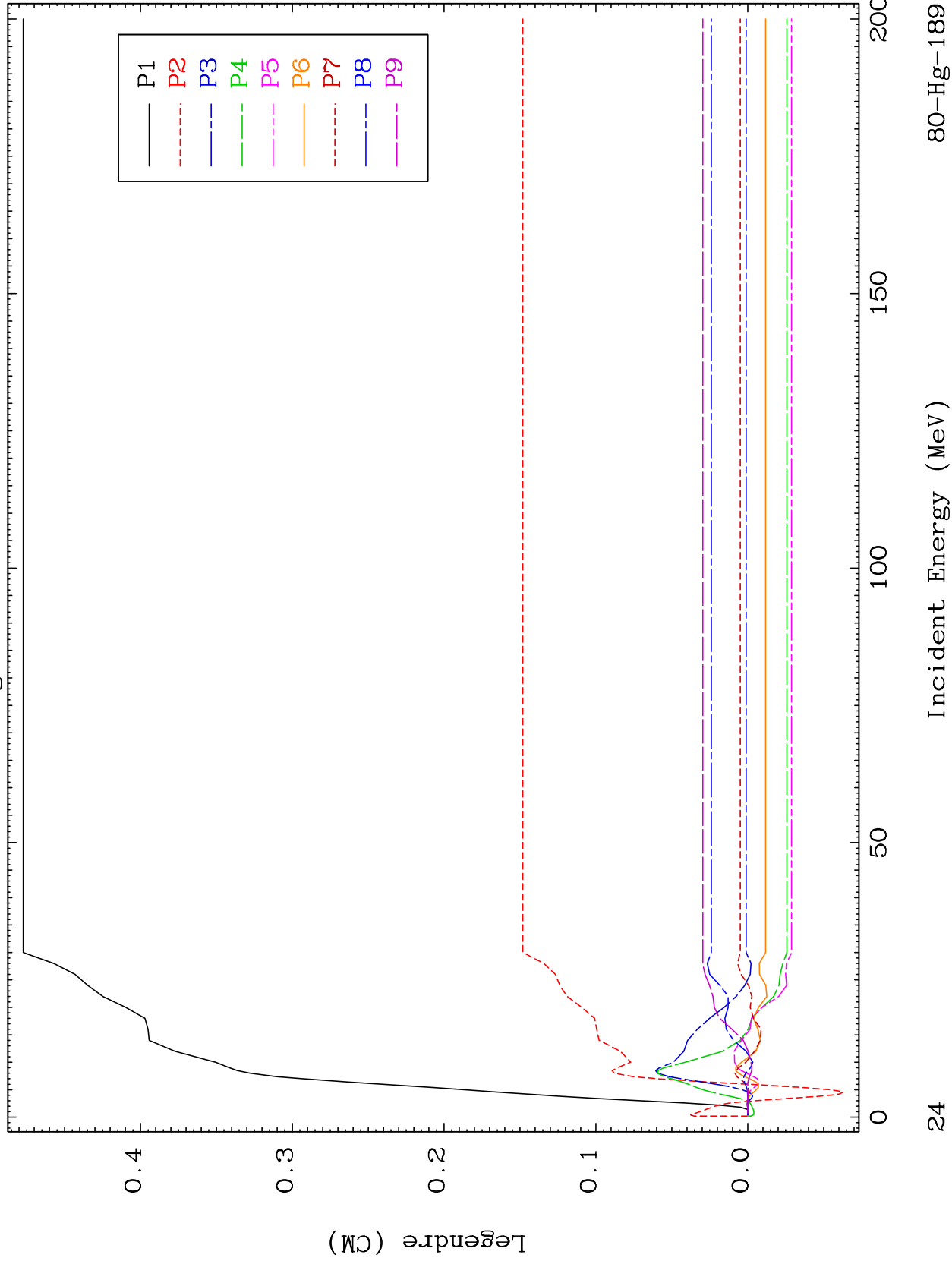
80-Hg-189



MAT 8004

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

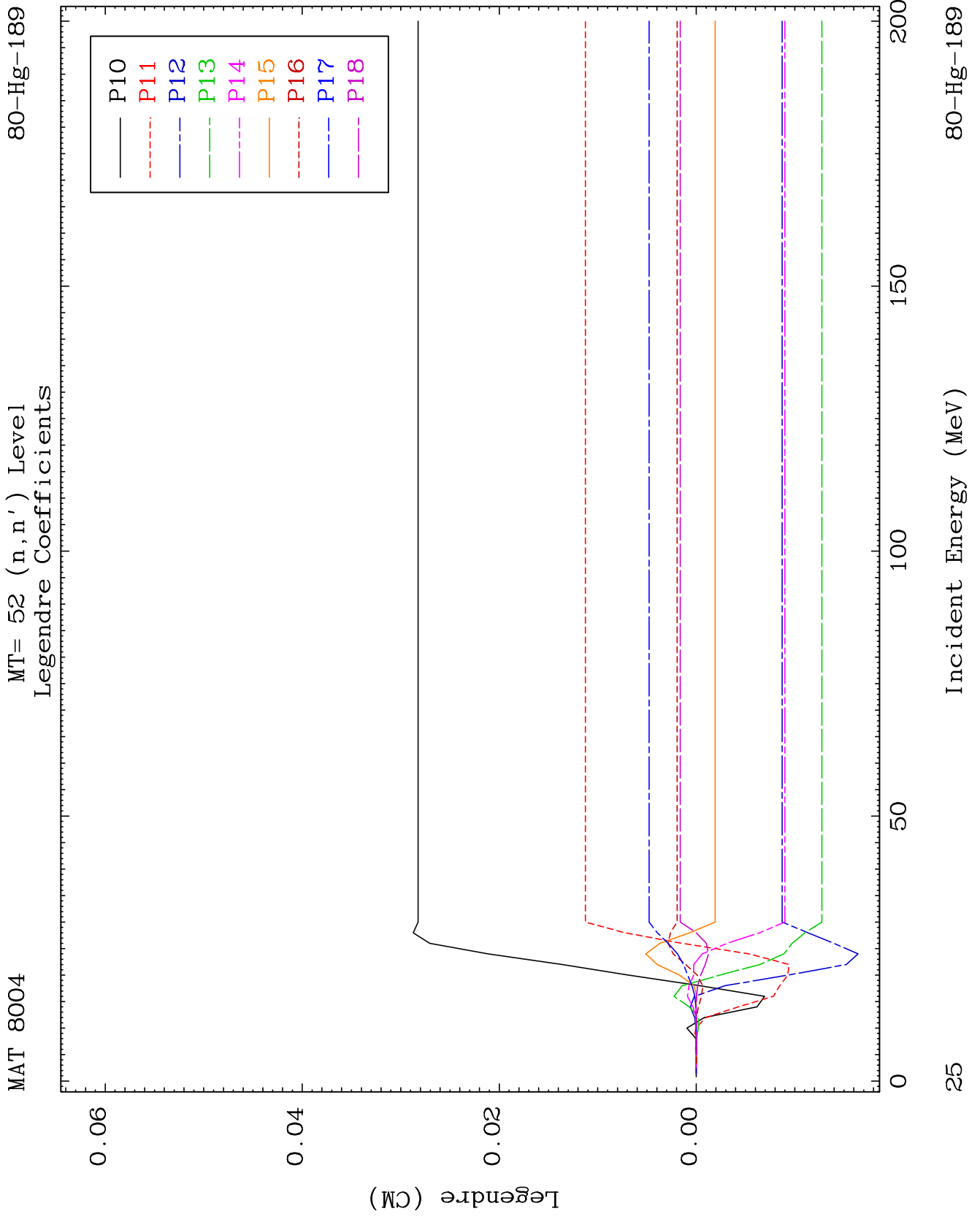
80-Hg-189



24

Incident Energy (MeV)

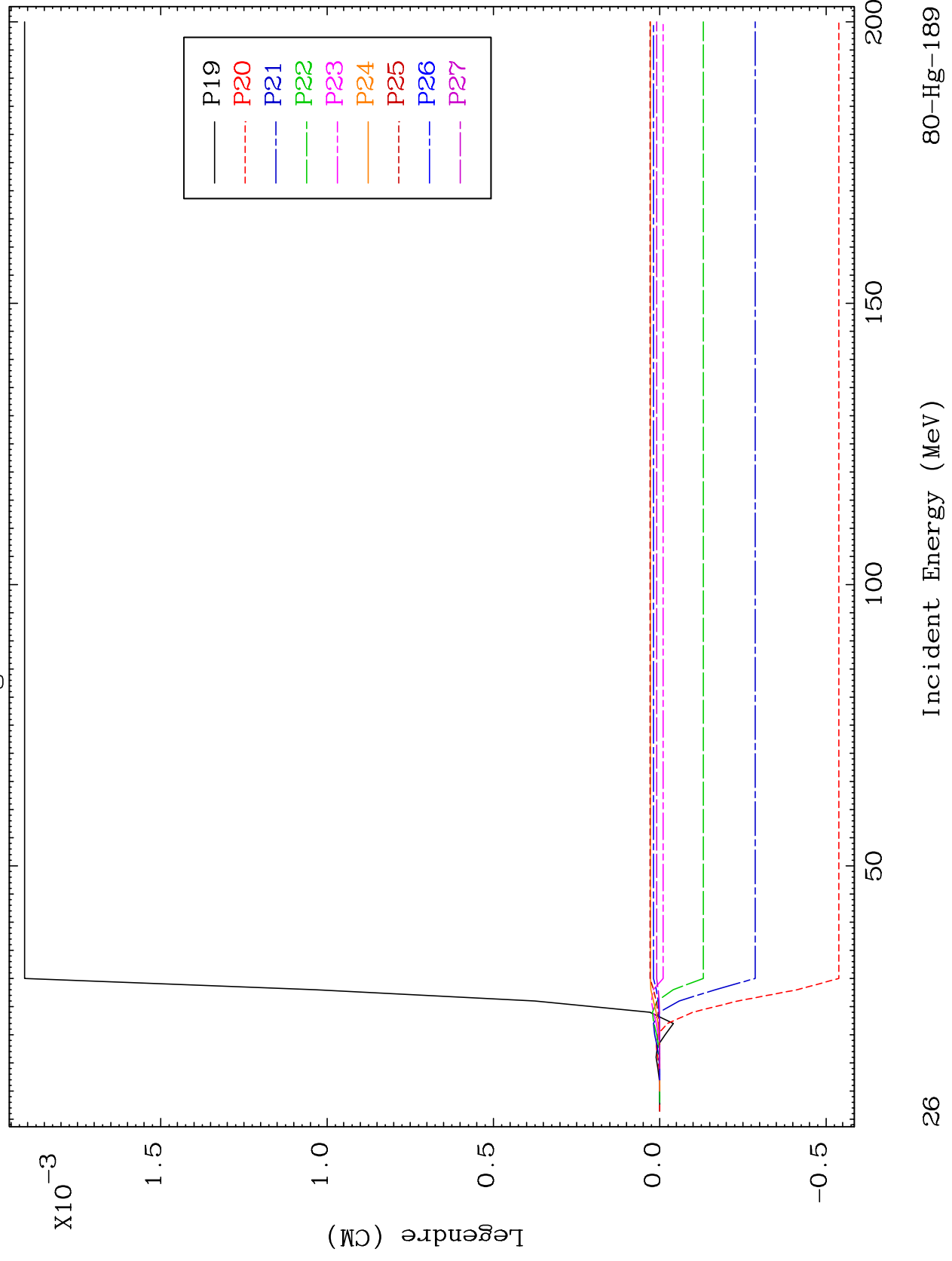
80-Hg-189



MAT 8004

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

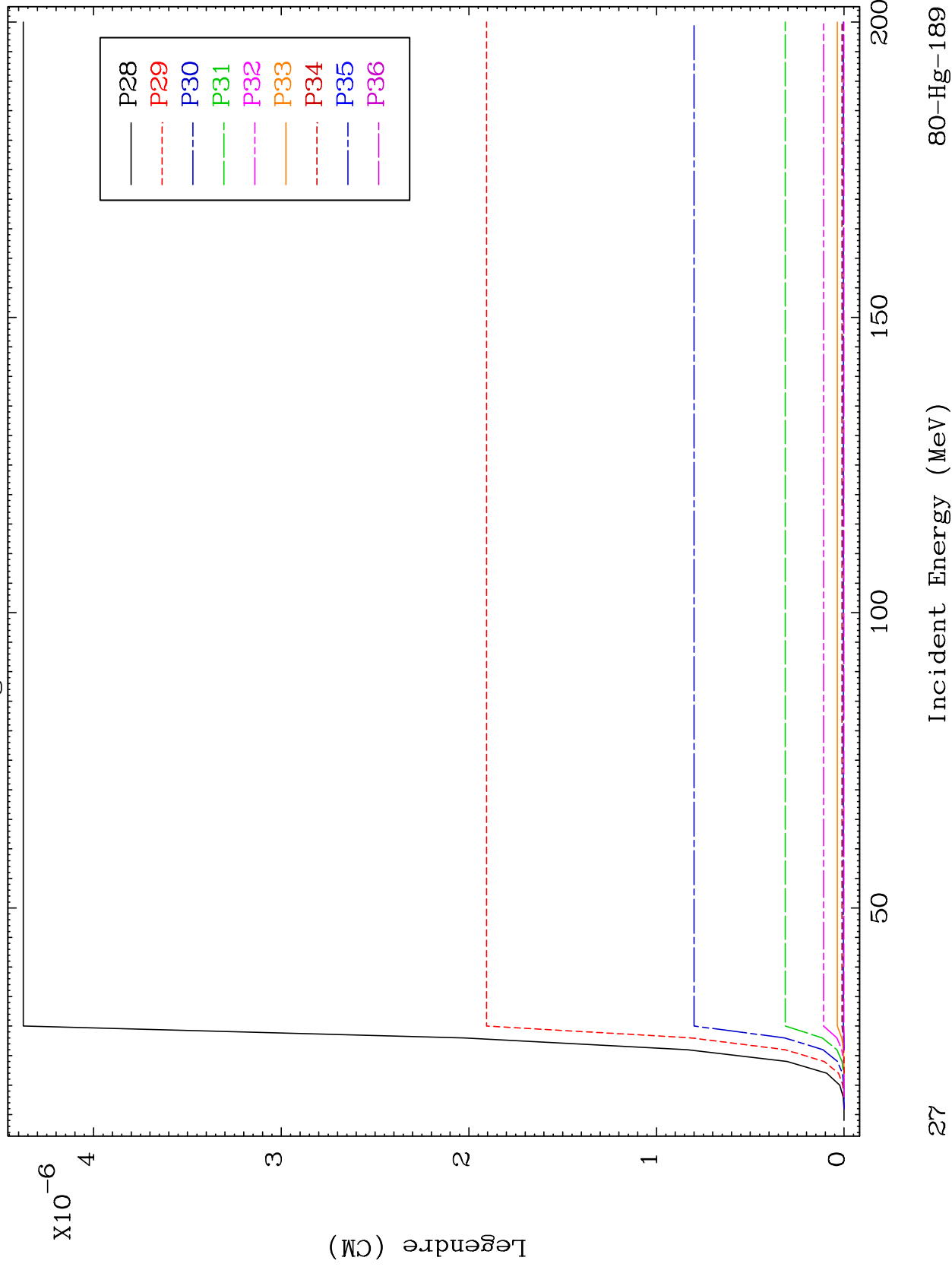
80-Hg-189



MAT 8004

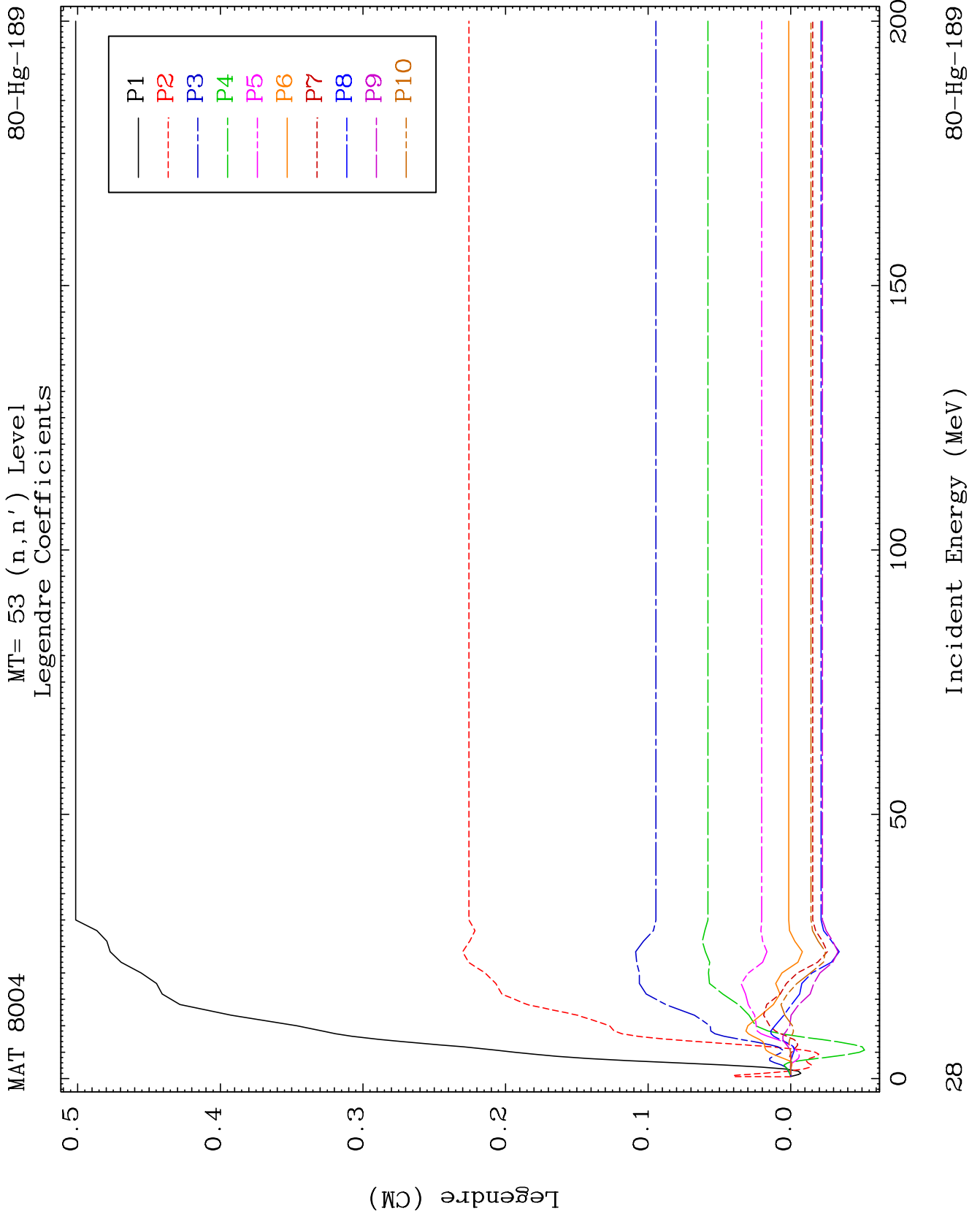
MT= 52 (n,n') Level
Legendre Coefficients

80-Hg-189



27

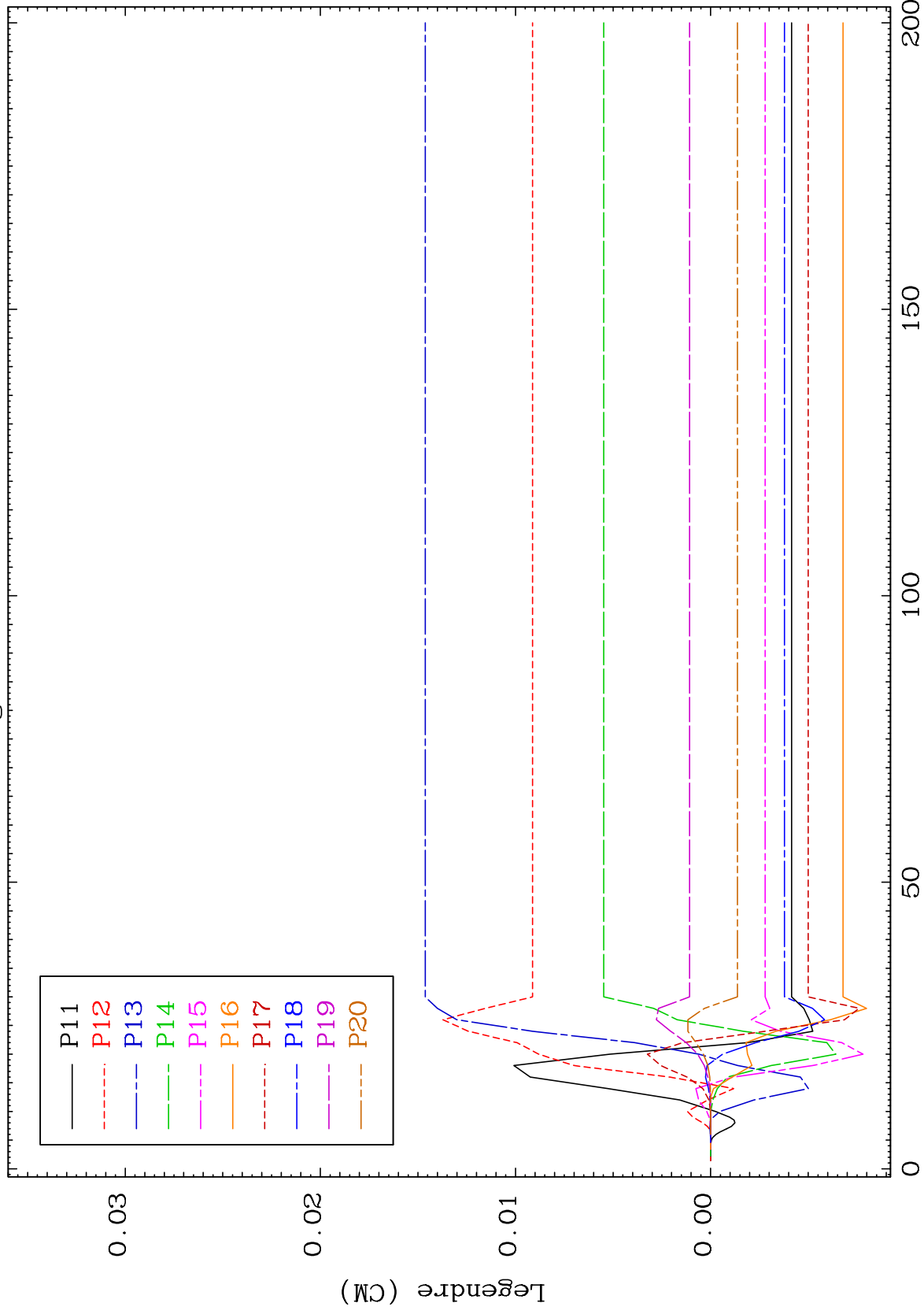
80-Hg-189



MAT 8004

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

80-Hg-189



29

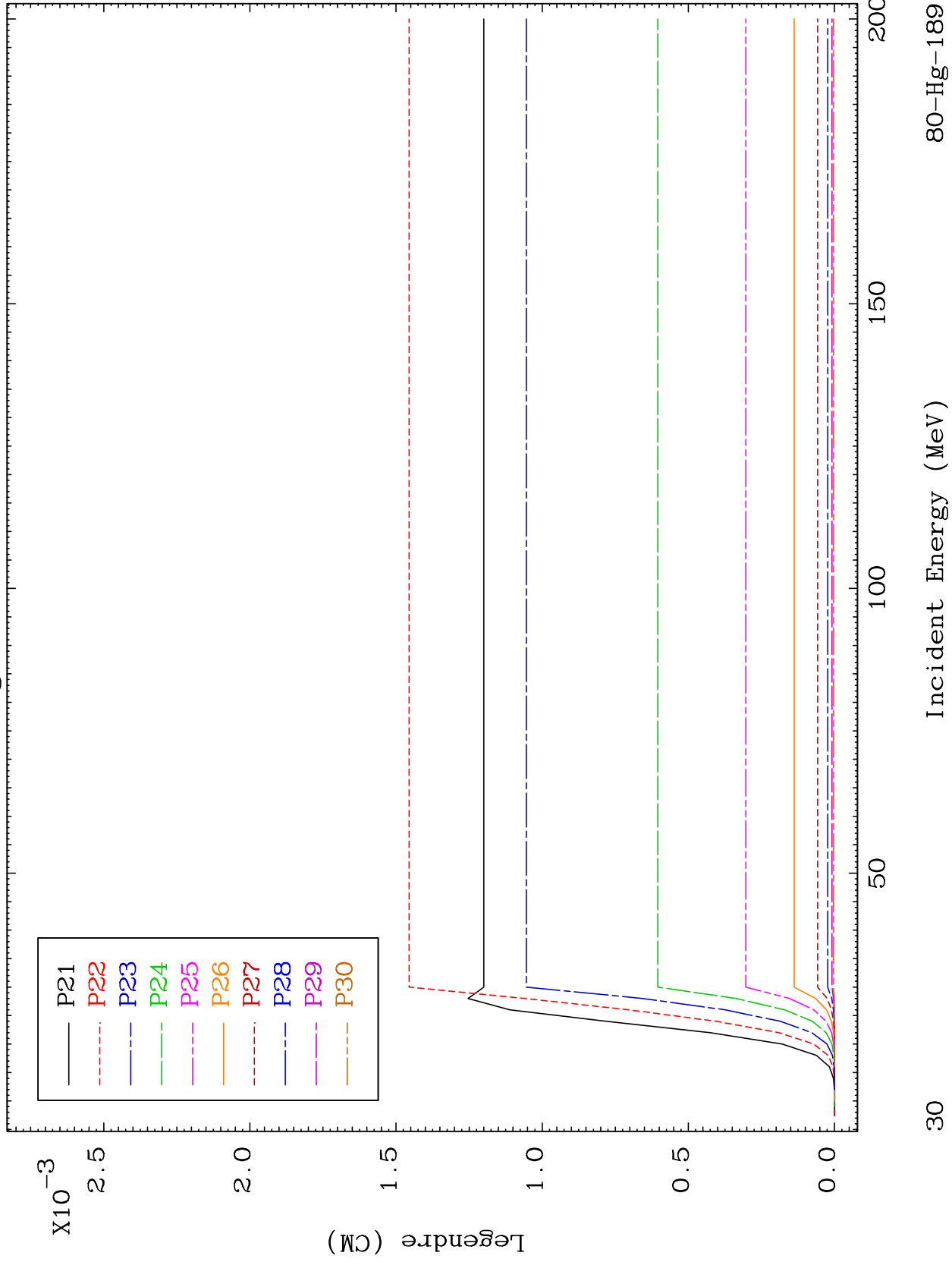
Incident Energy (MeV)

80-Hg-189

MAT 8004

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

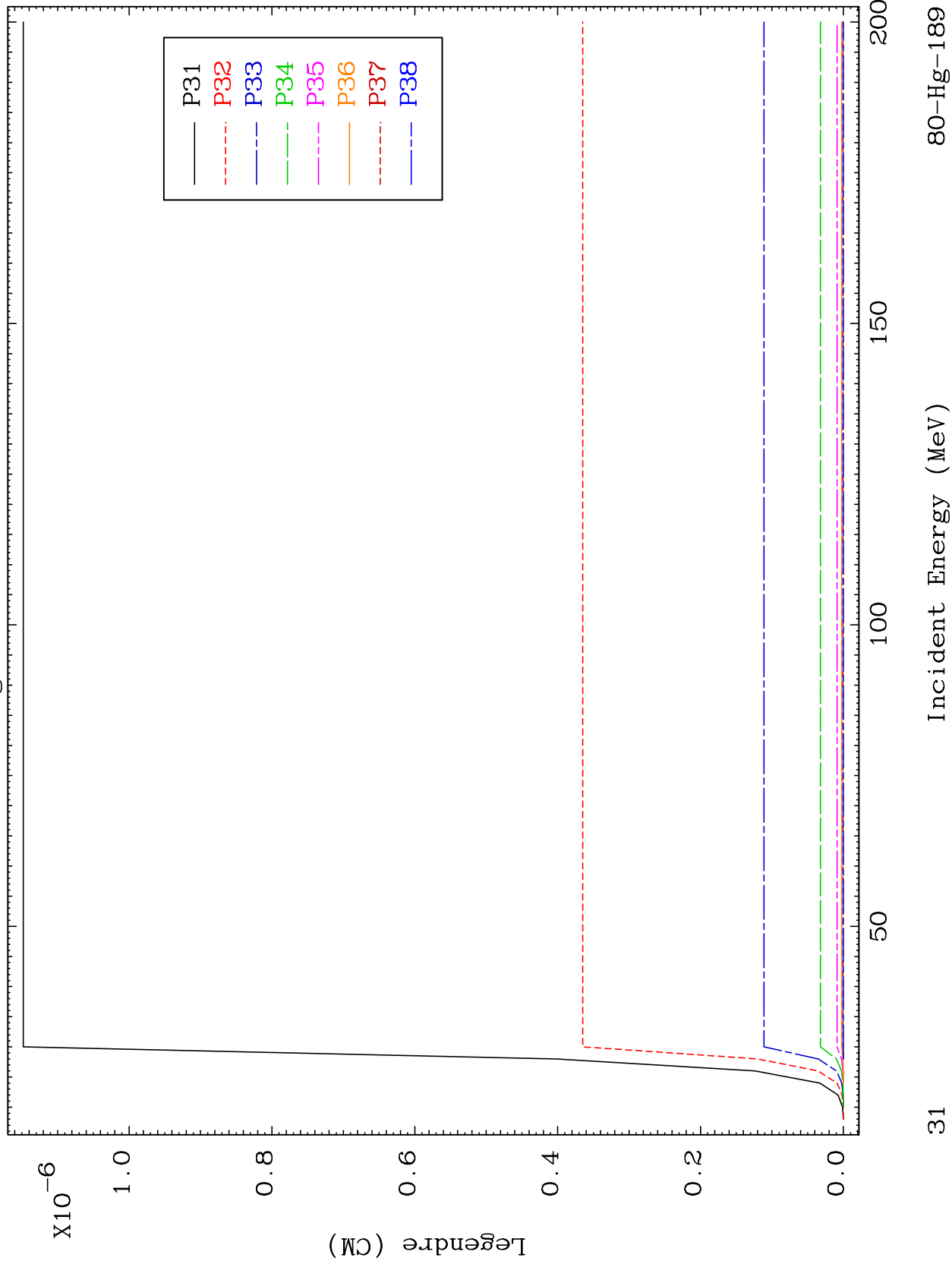
80-Hg-189

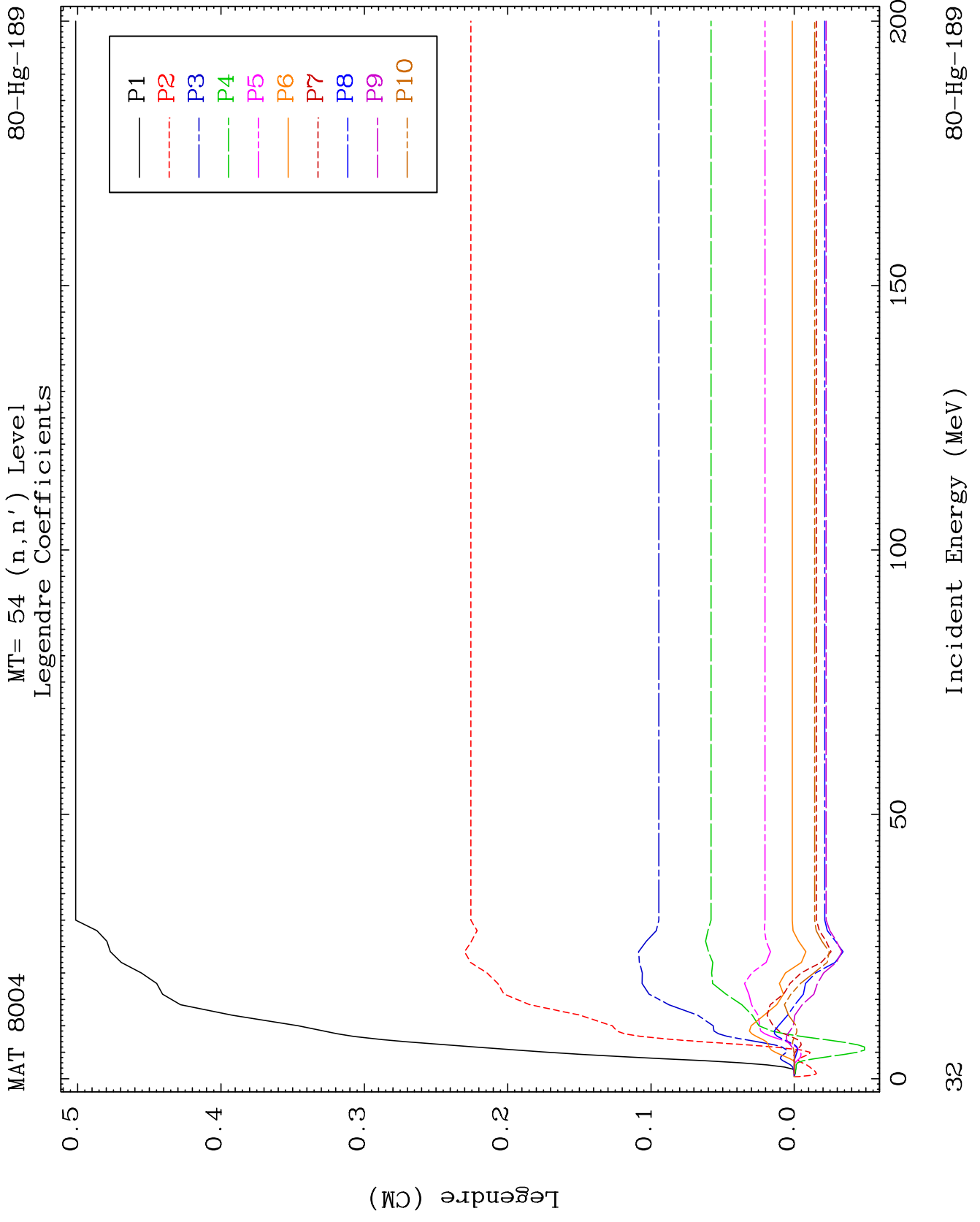


MAT 8004

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

80-Hg-189

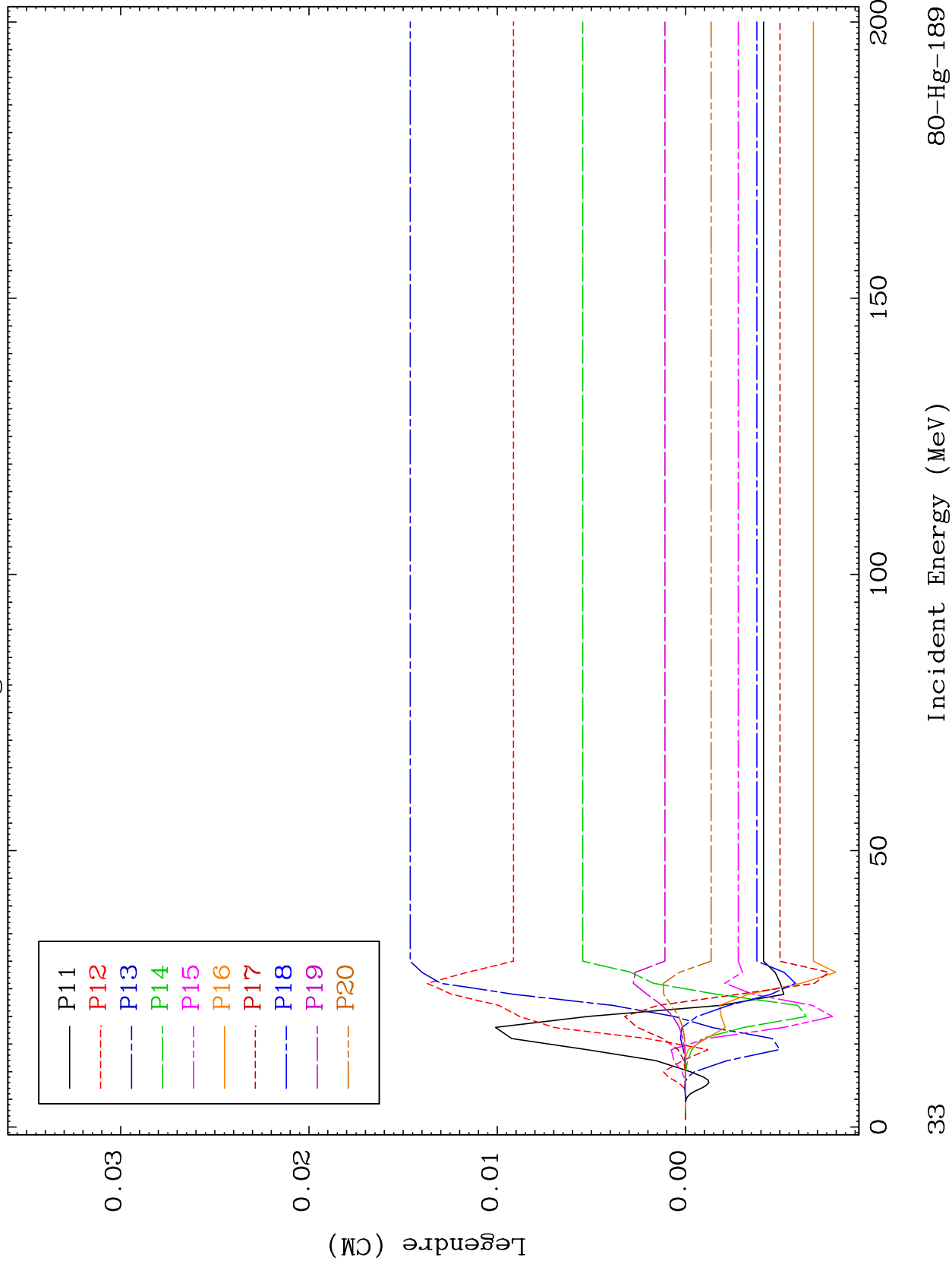




MAT 8004

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

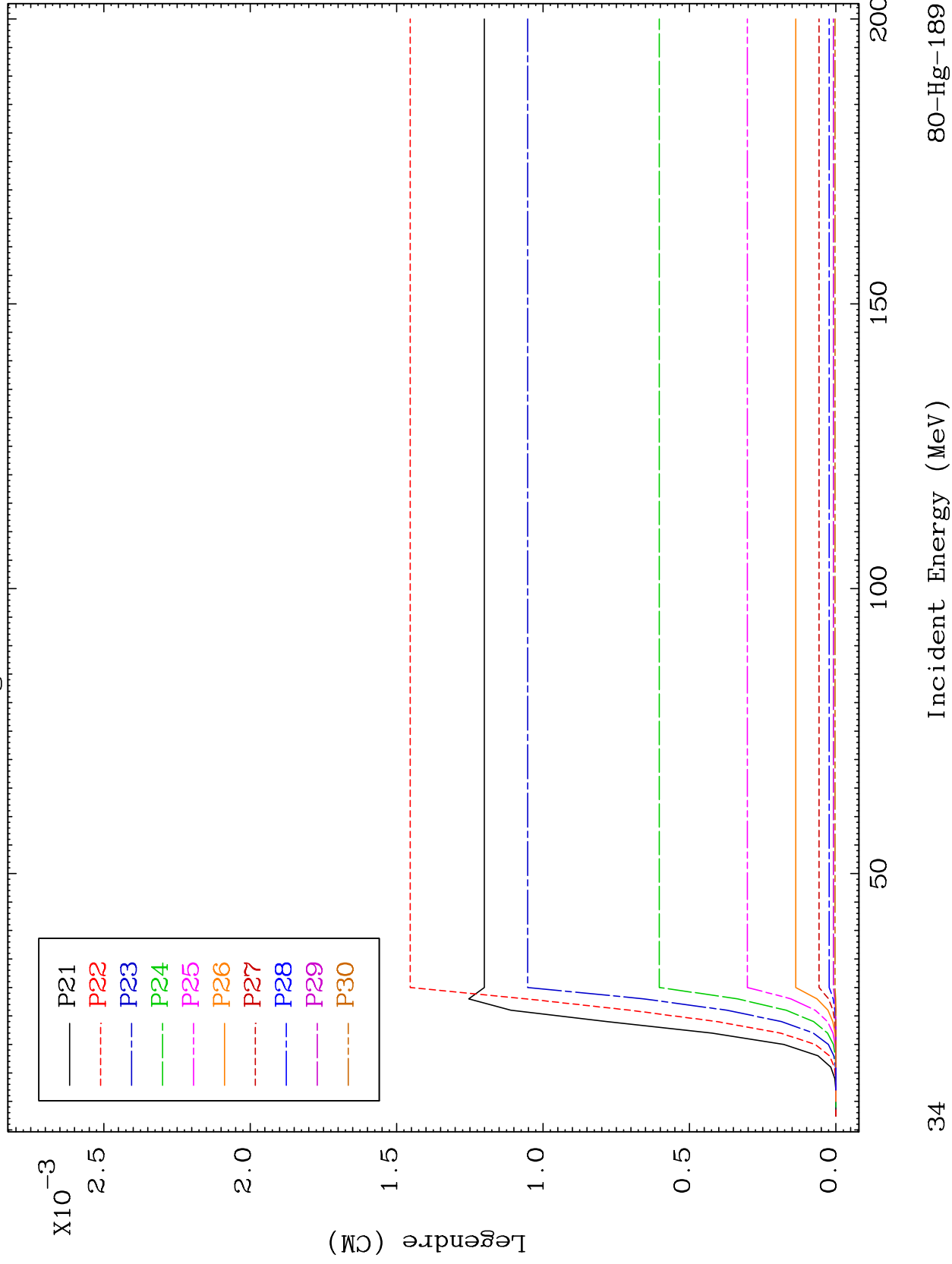
80-Hg-189



MAT 8004

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

80-Hg-189



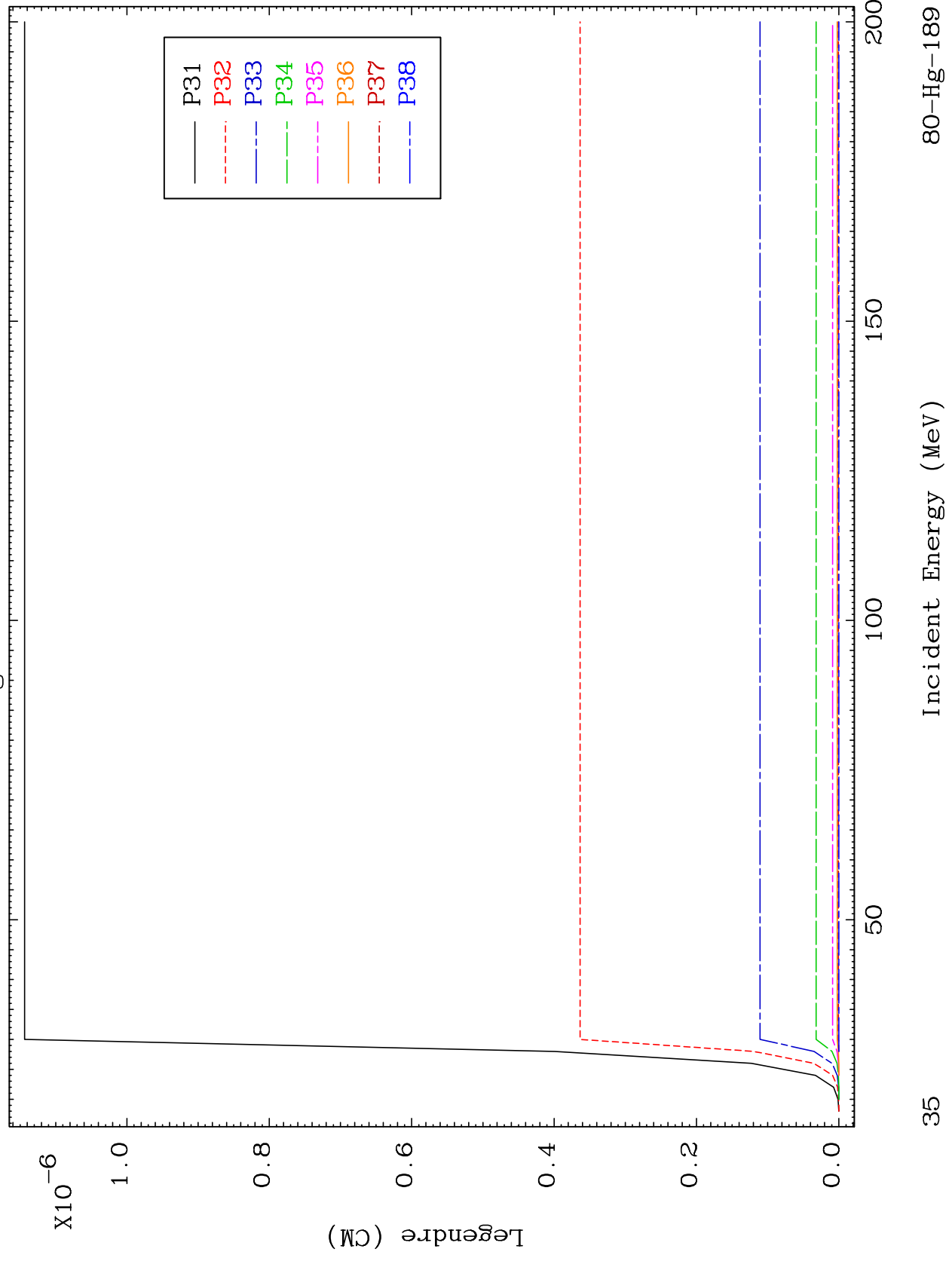
34

80-Hg-189

MAT 8004

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

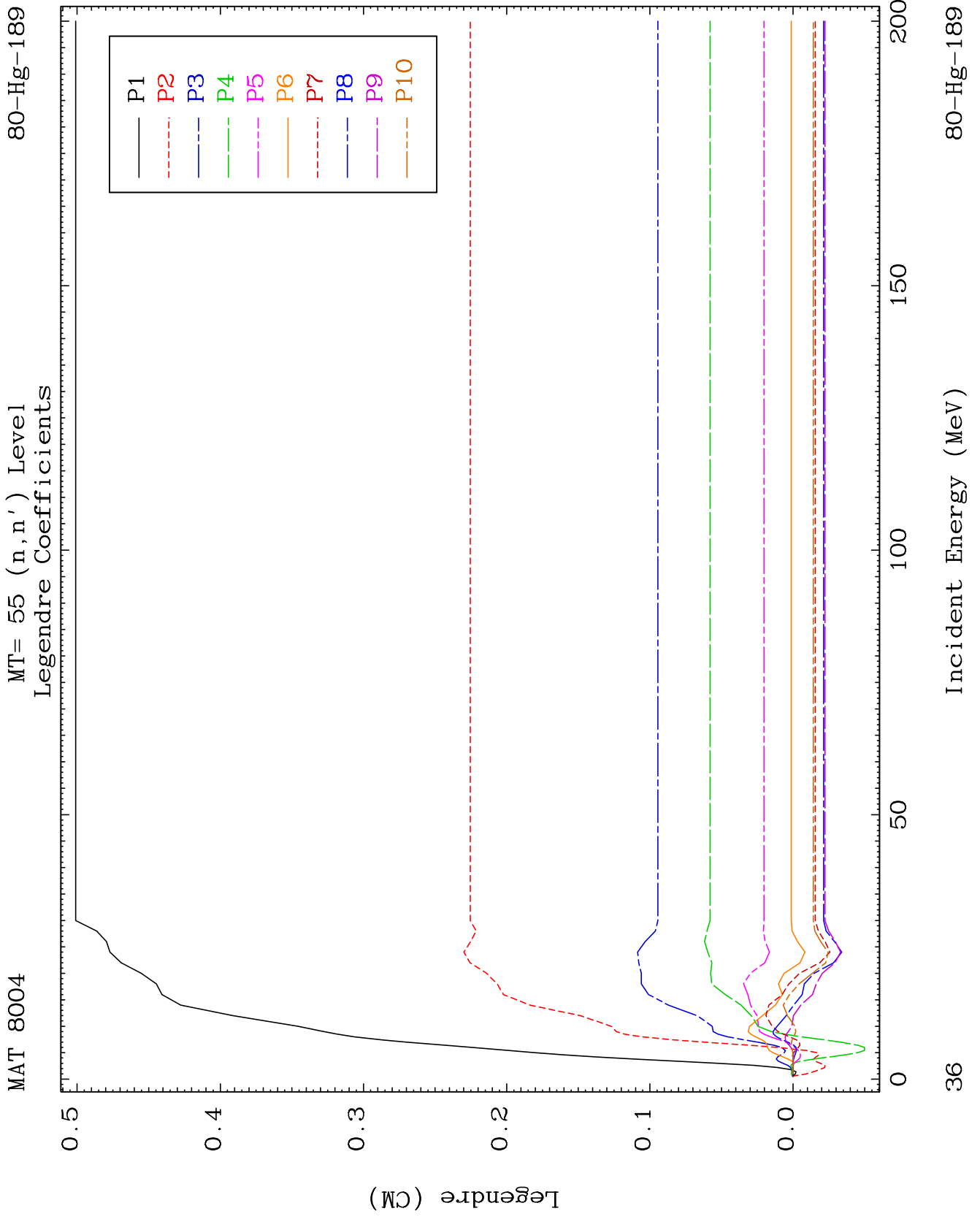
80-Hg-189



35

Incident Energy (MeV)

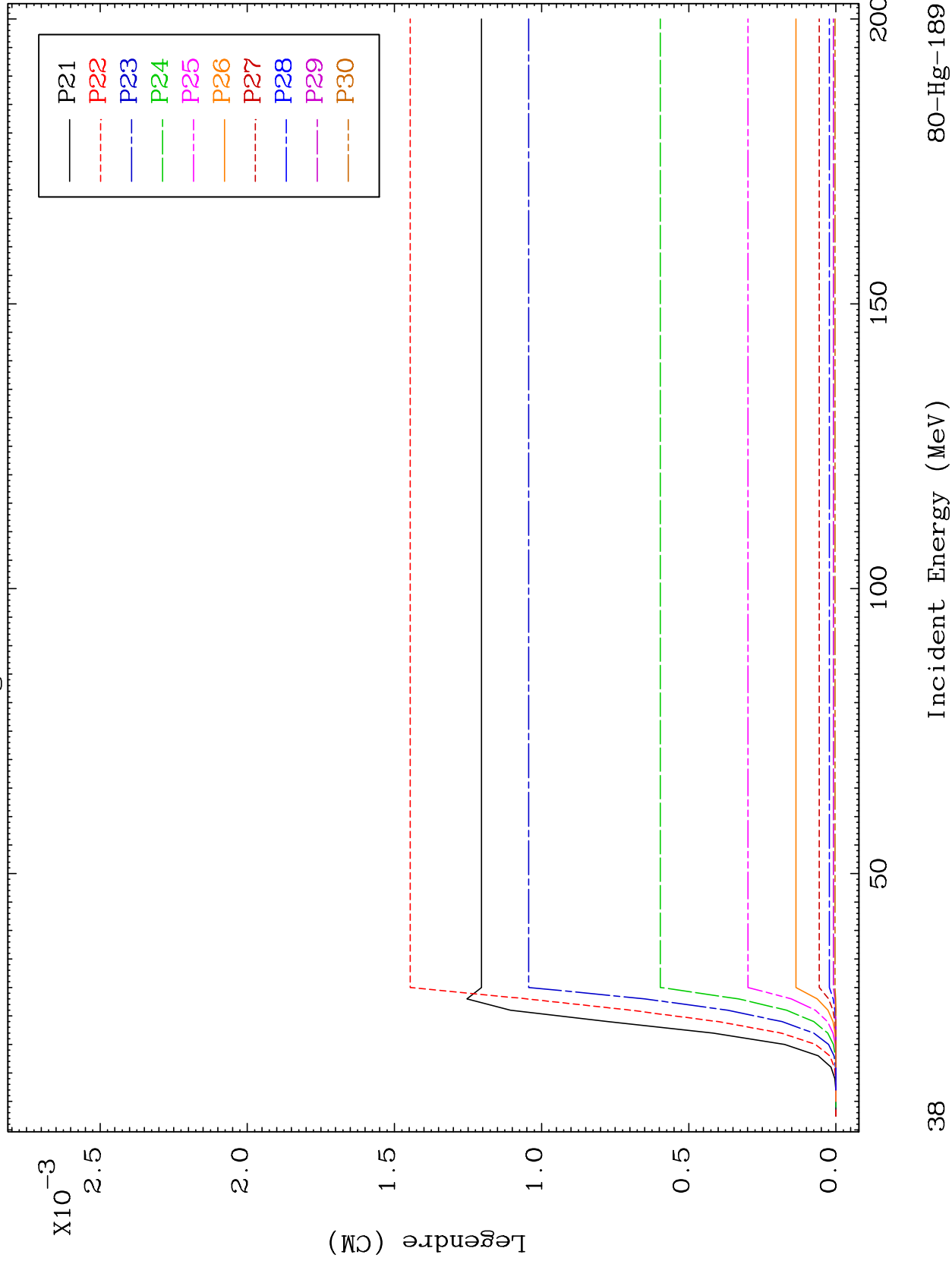
80-Hg-189



MAT 8004

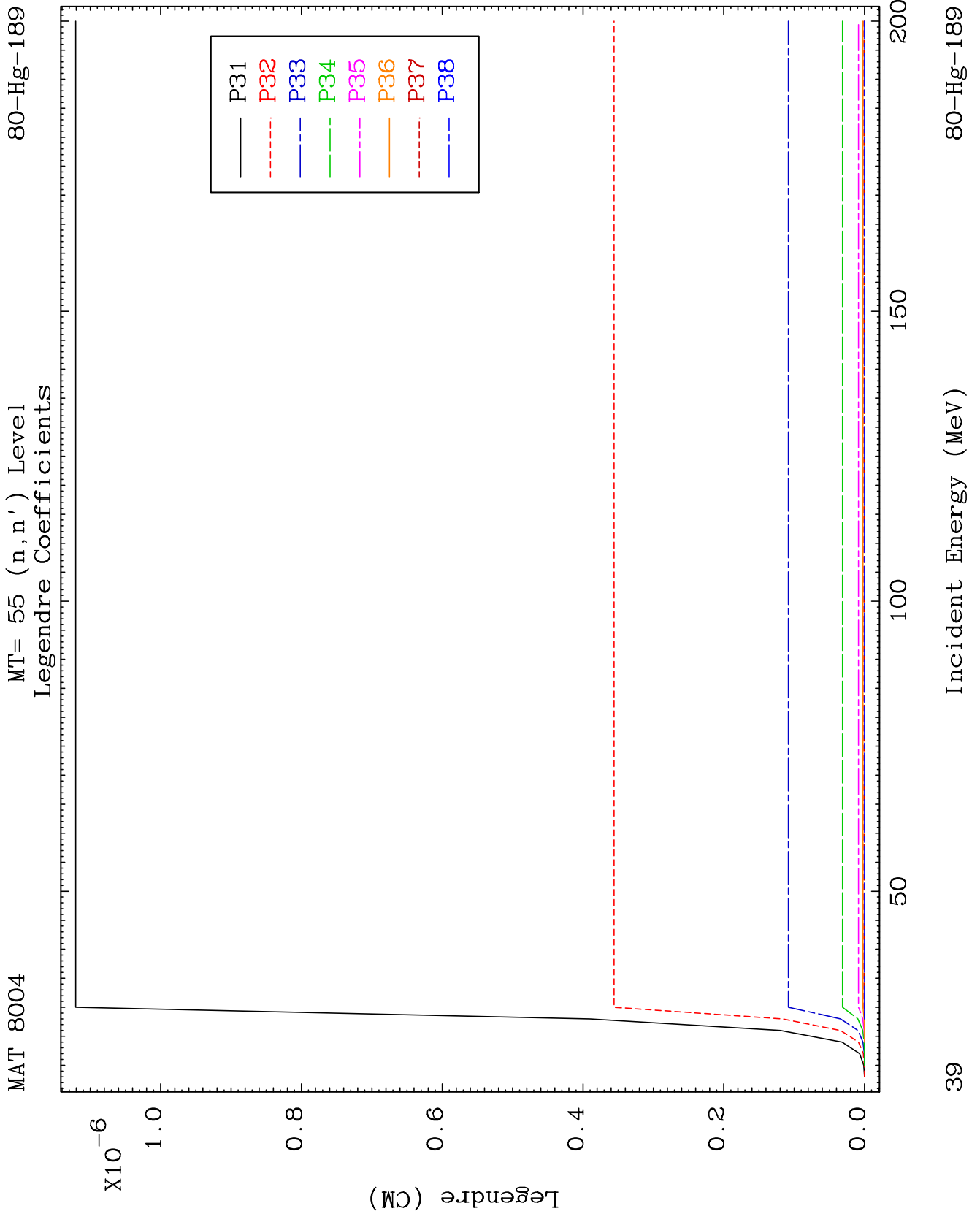
MT= 55 (n,n') Level
Legendre Coefficients

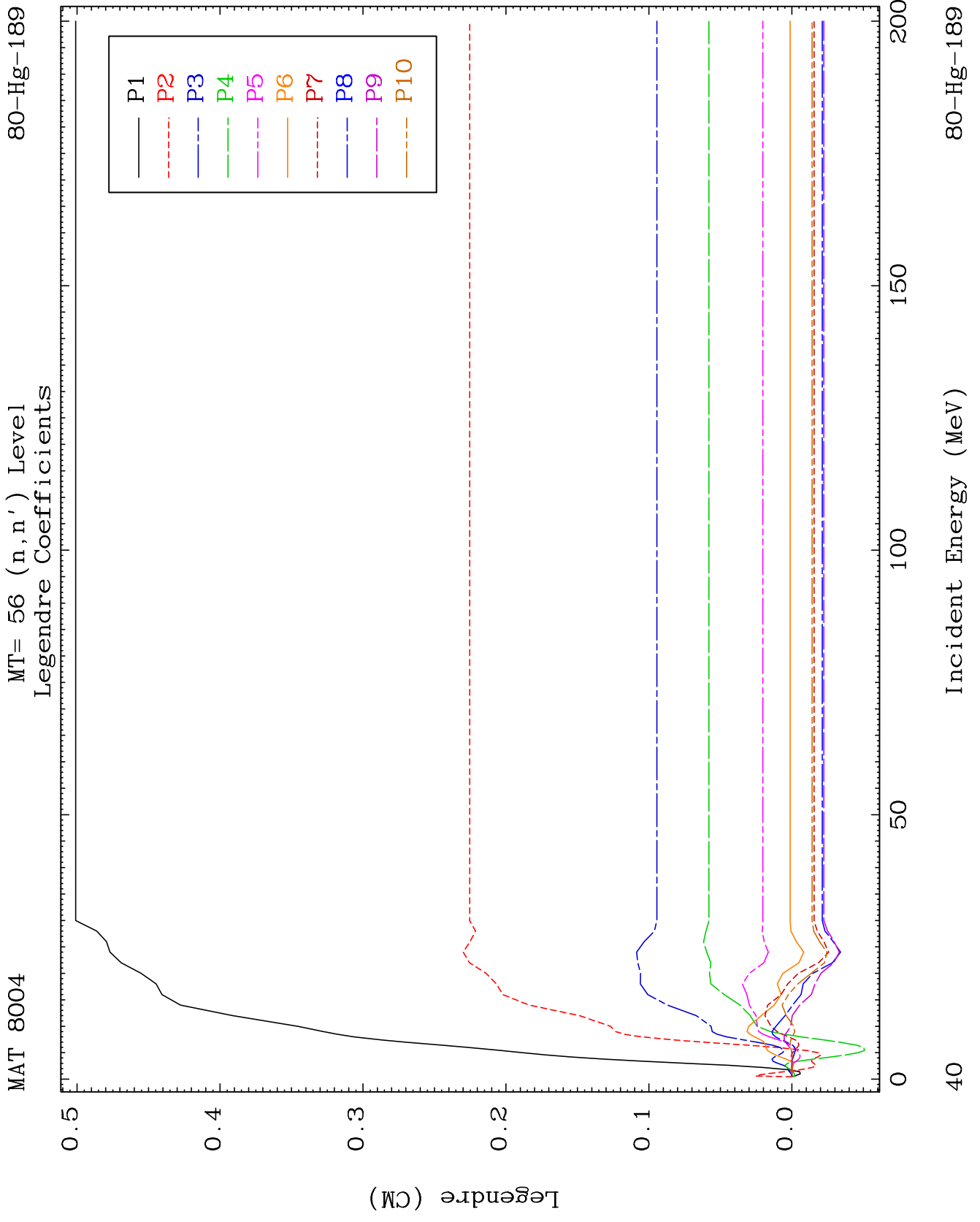
80-Hg-189



38

80-Hg-189

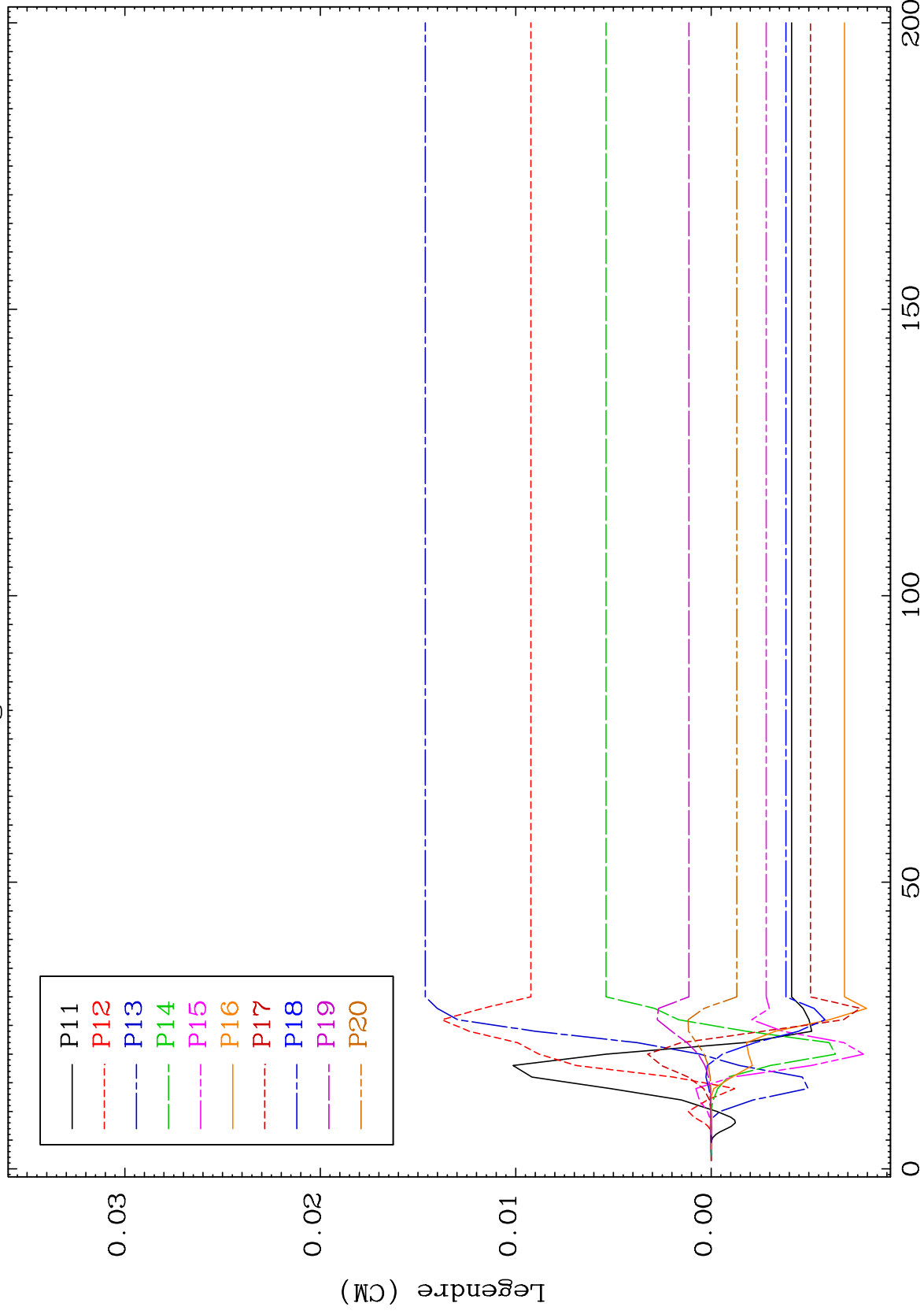




MAT 8004

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

80-Hg-189



41

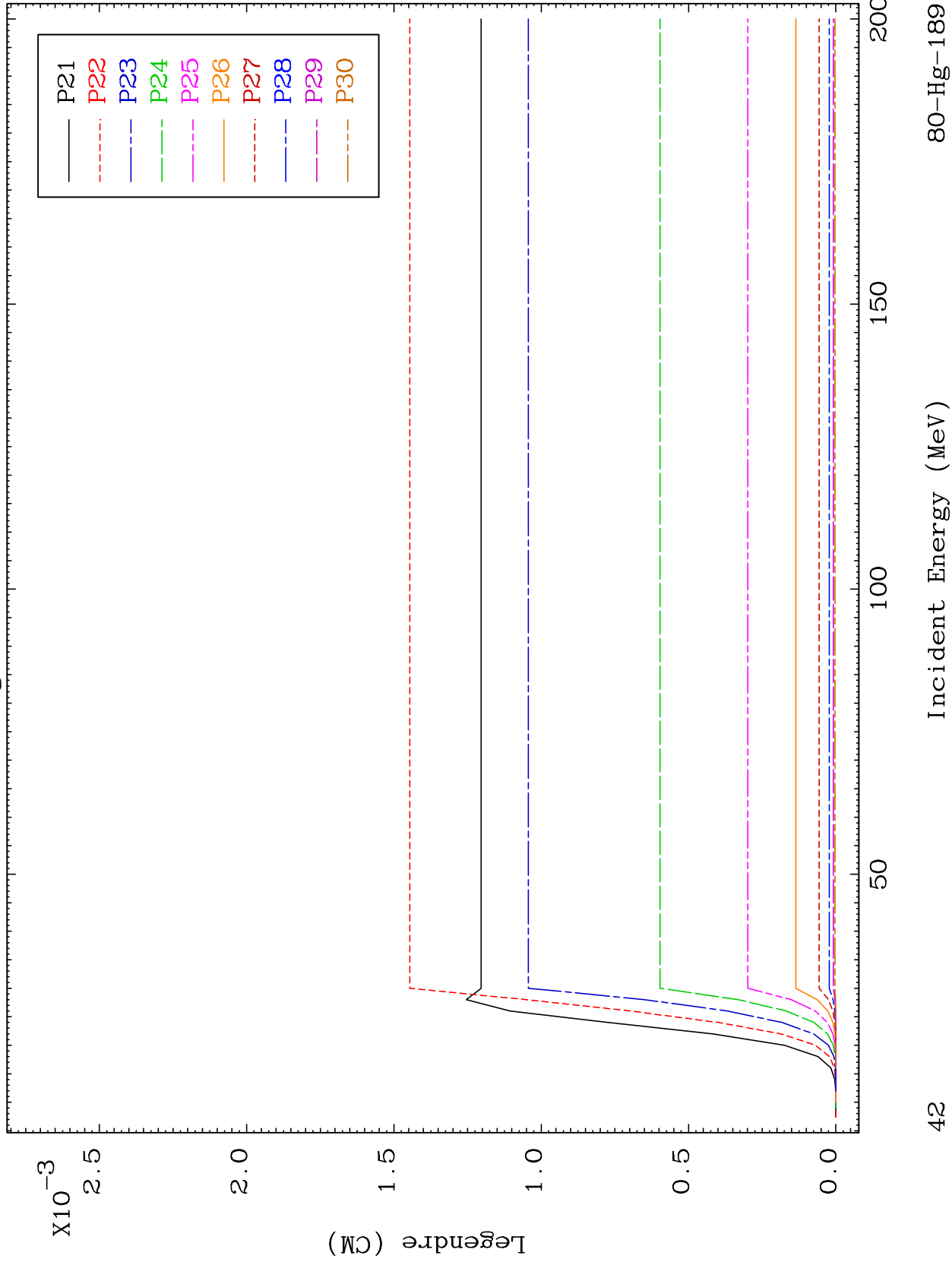
Incident Energy (MeV)

80-Hg-189

MAT 8004

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

80-Hg-189



42

Incident Energy (MeV)

80-Hg-189

MAT 8004

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

80-Hg-189

$\times 10^{-6}$

1.0

0.8

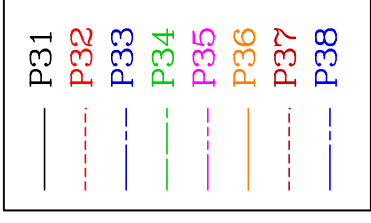
0.6

0.4

0.2

0.0

Legendre (CM)



50

100

150

200

43

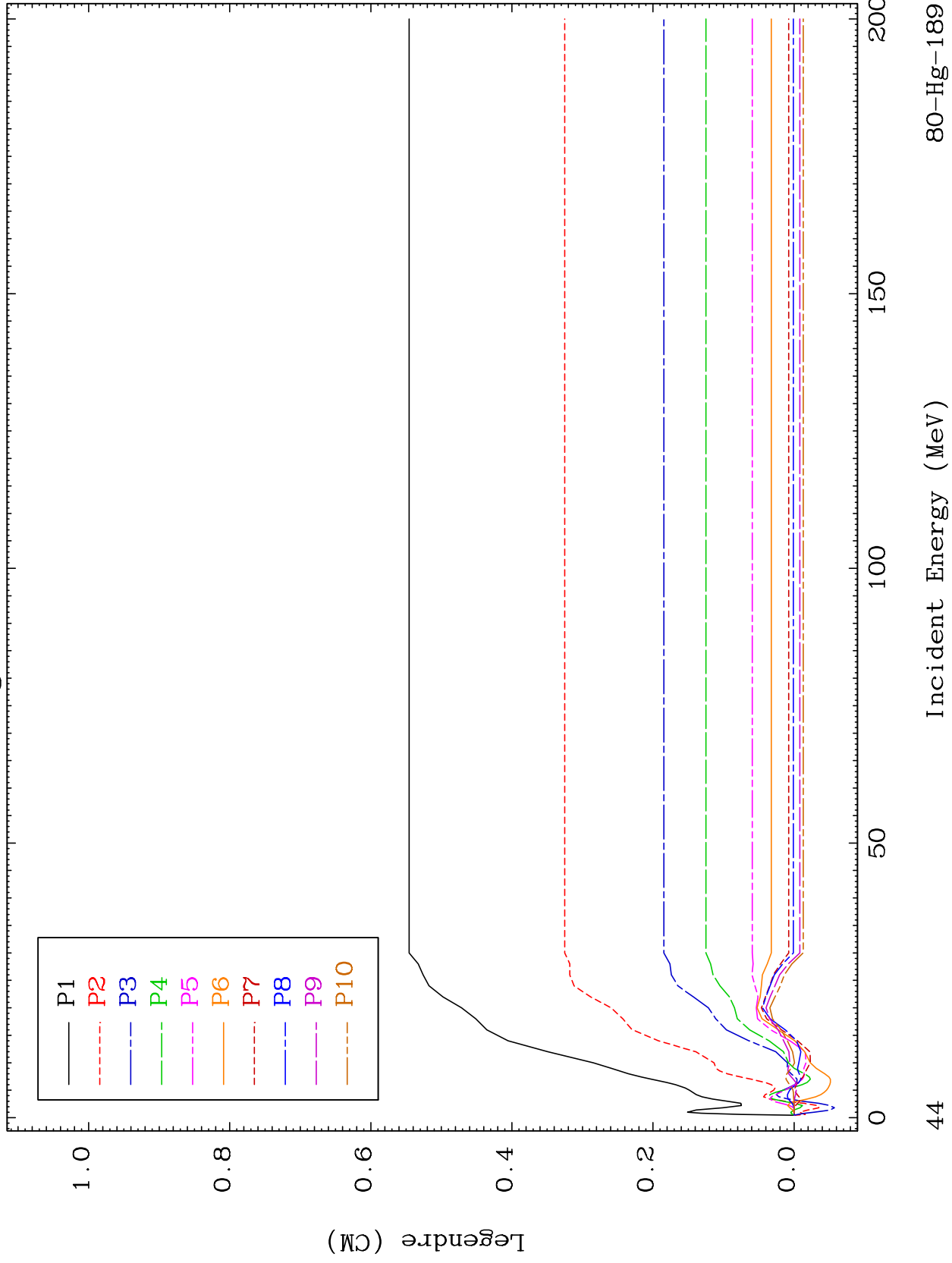
Incident Energy (MeV)

80-Hg-189

MAT 8004

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

80-Hg-189

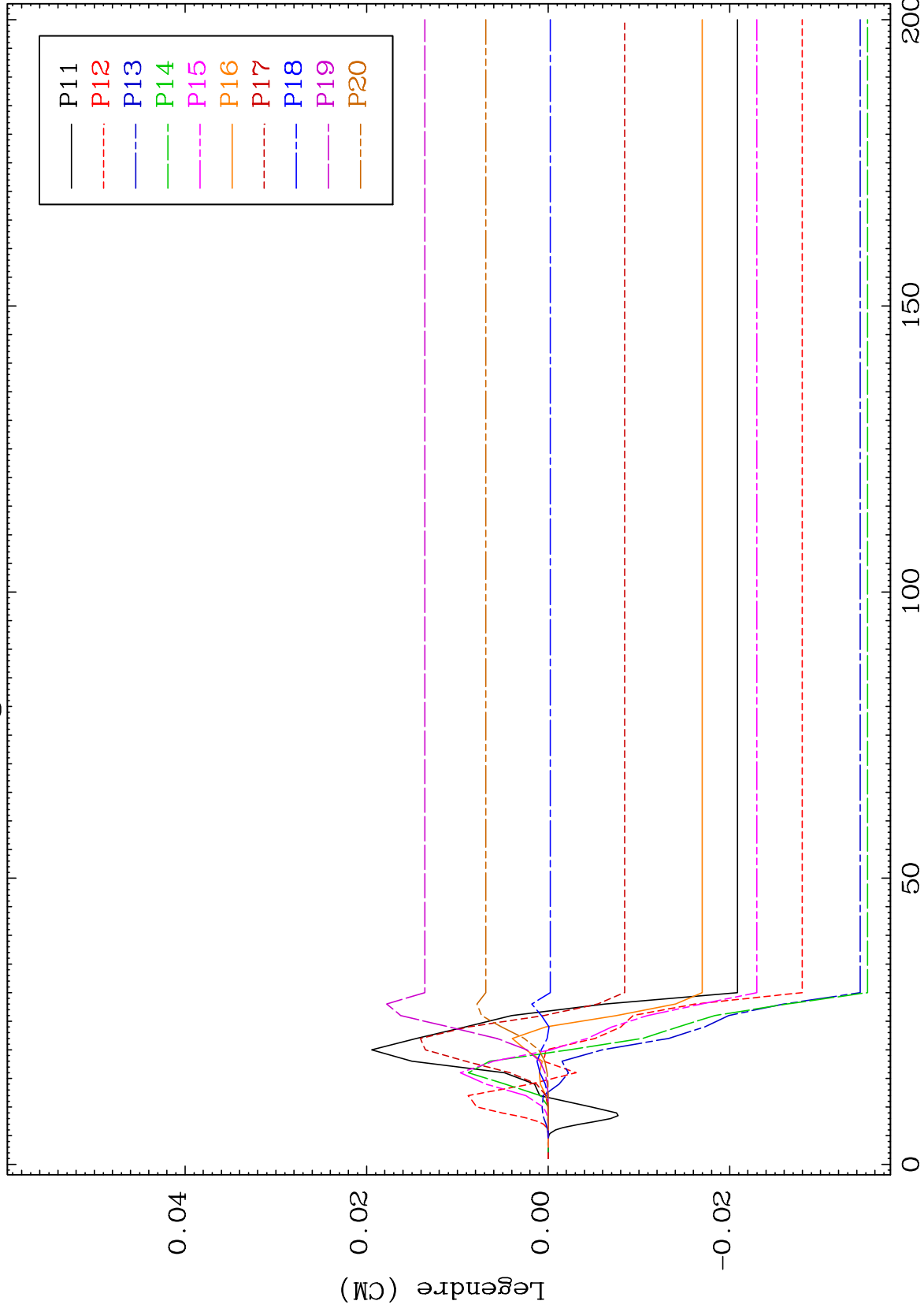


44

MAT 8004

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

80-Hg-189



80-Hg-189

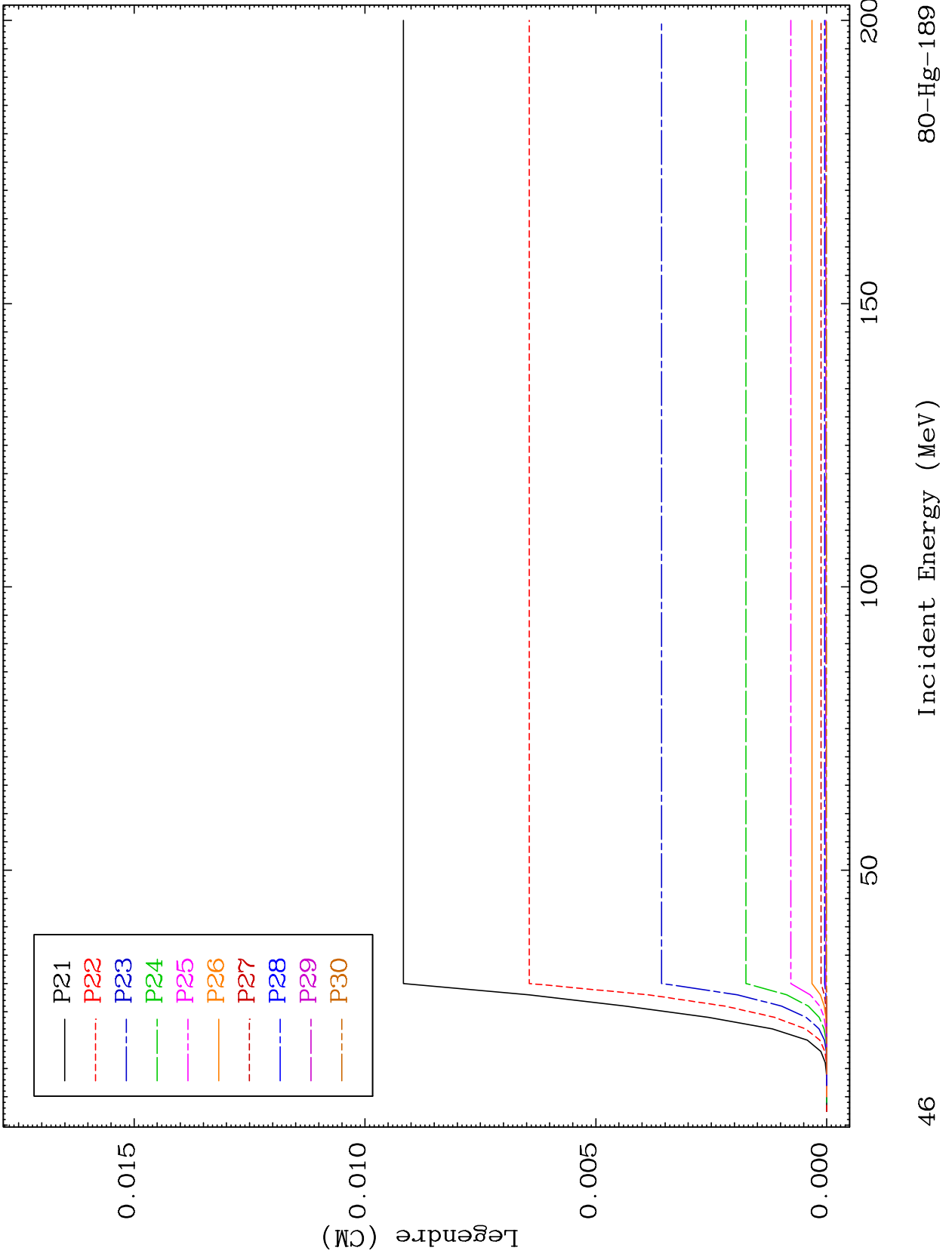
Incident Energy (MeV)

45

MAT 8004

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

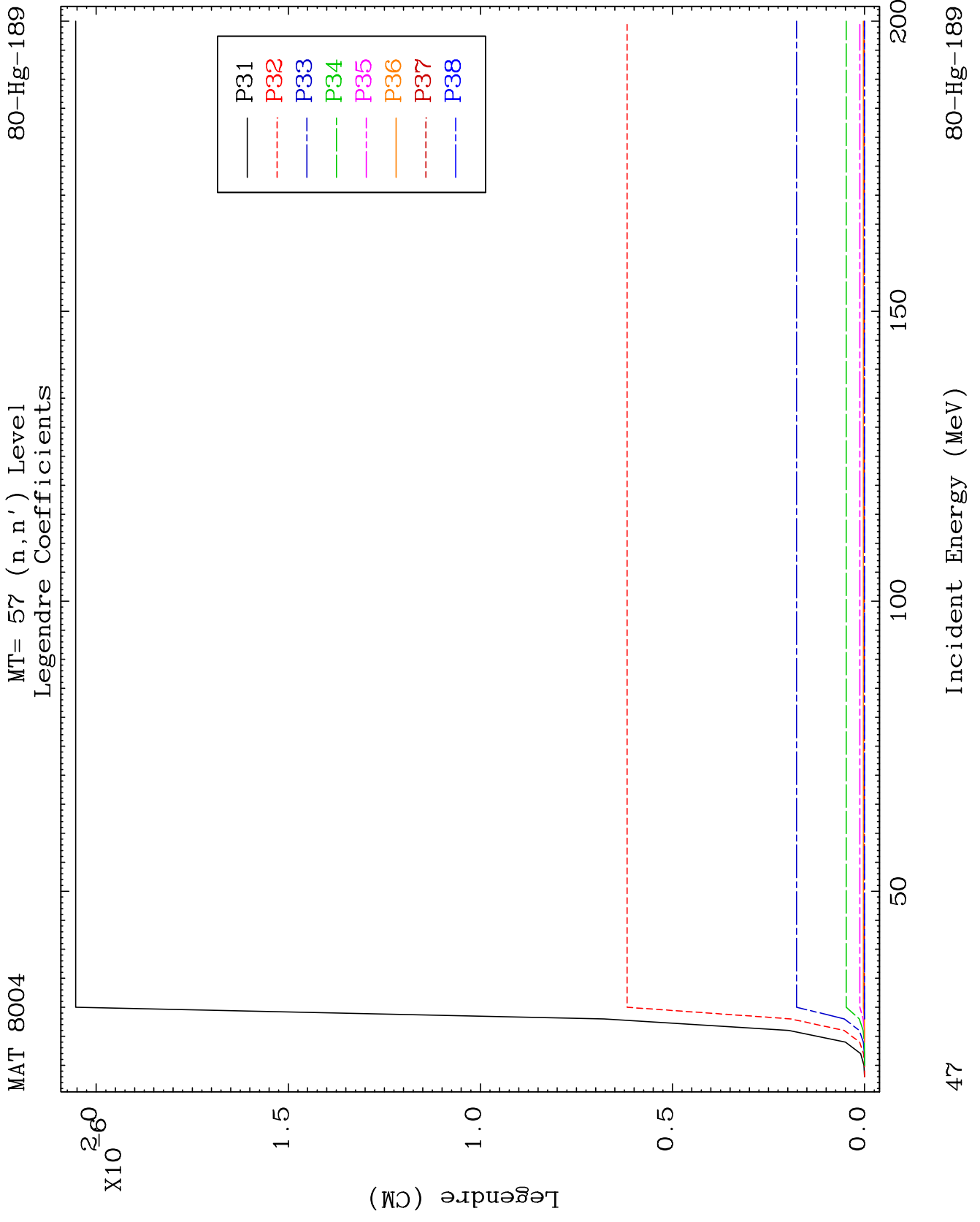
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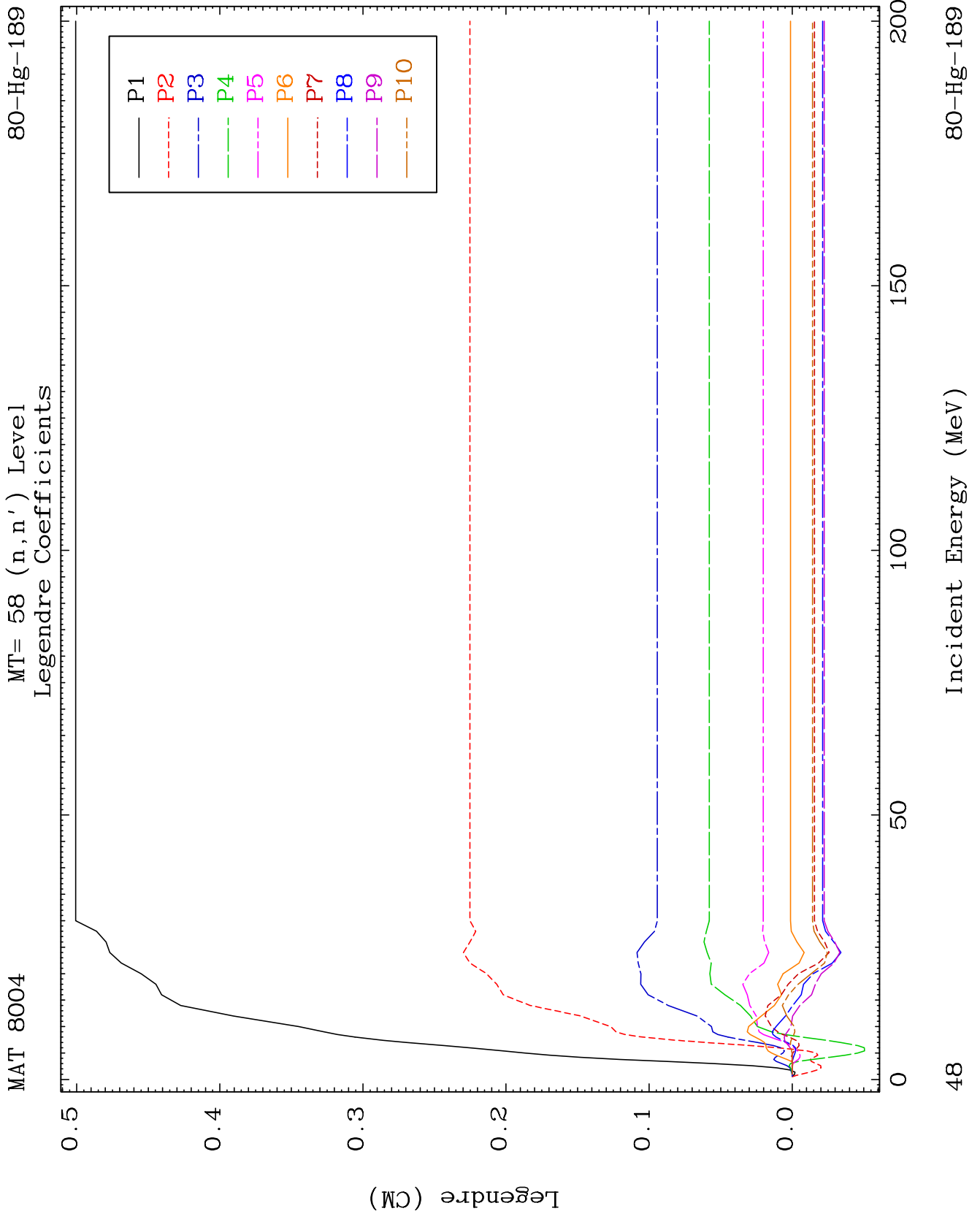


46

Incident Energy (MeV)

80-Hg-189

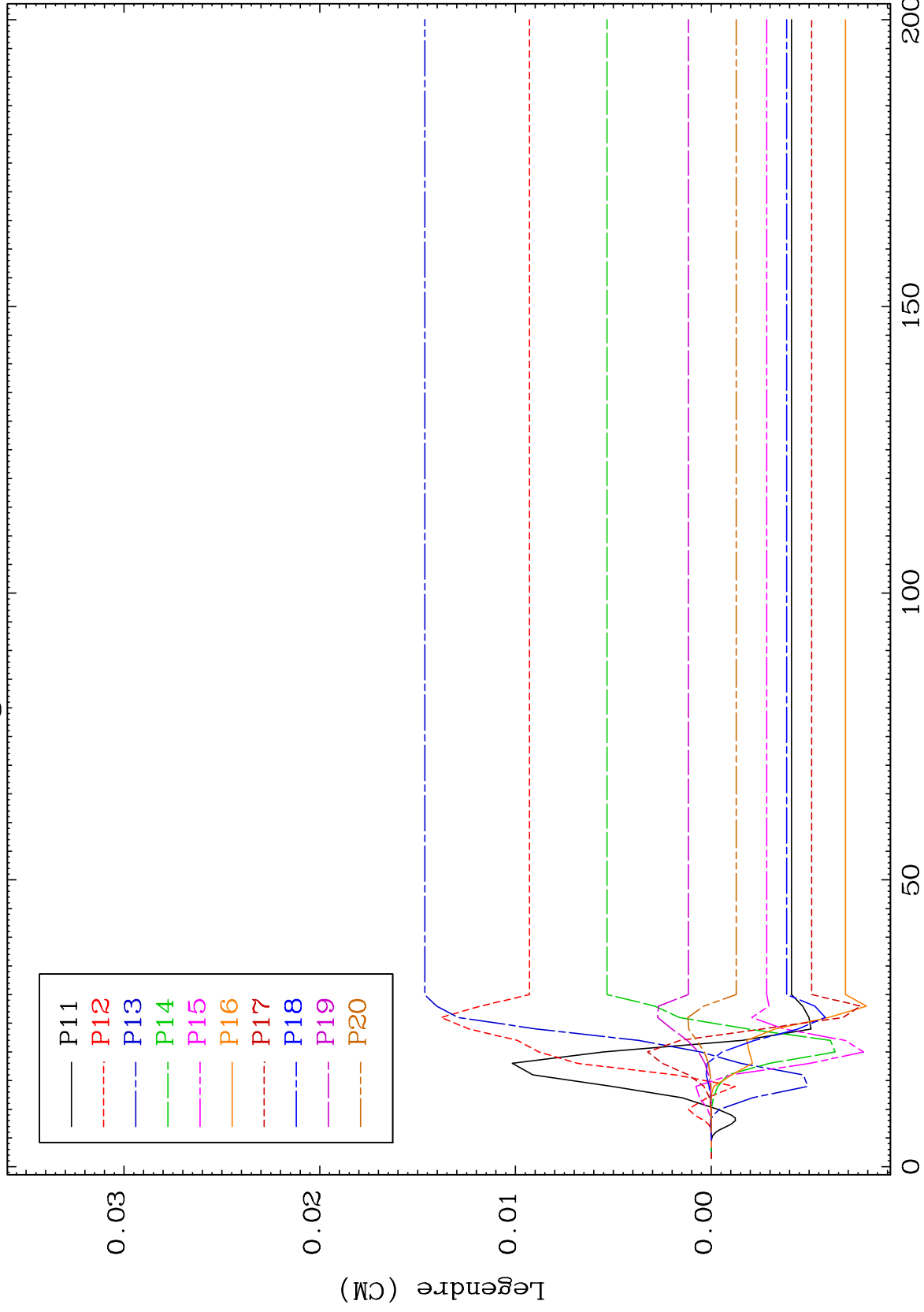




MAT 8004

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

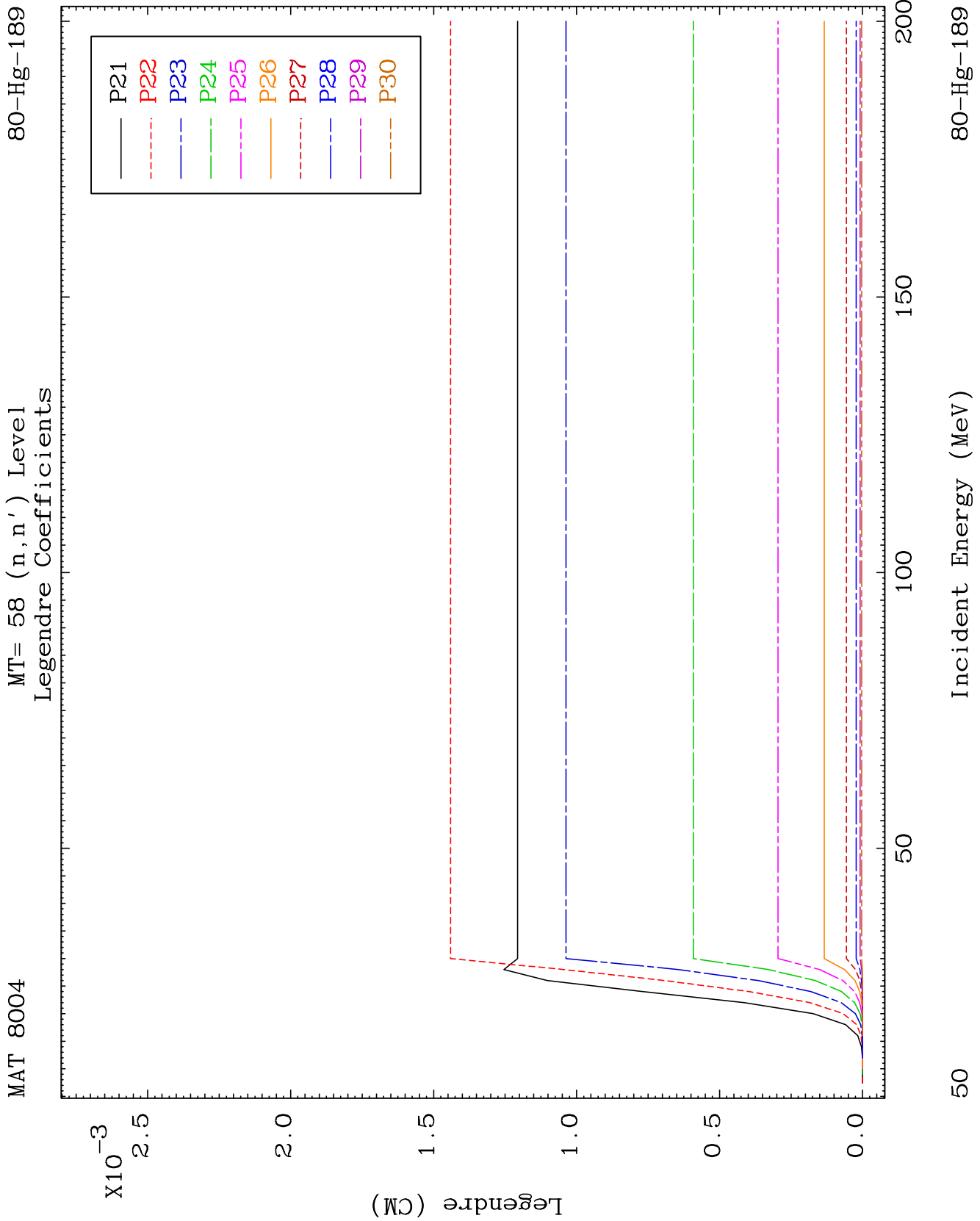
80-Hg-189



49

Incident Energy (MeV)

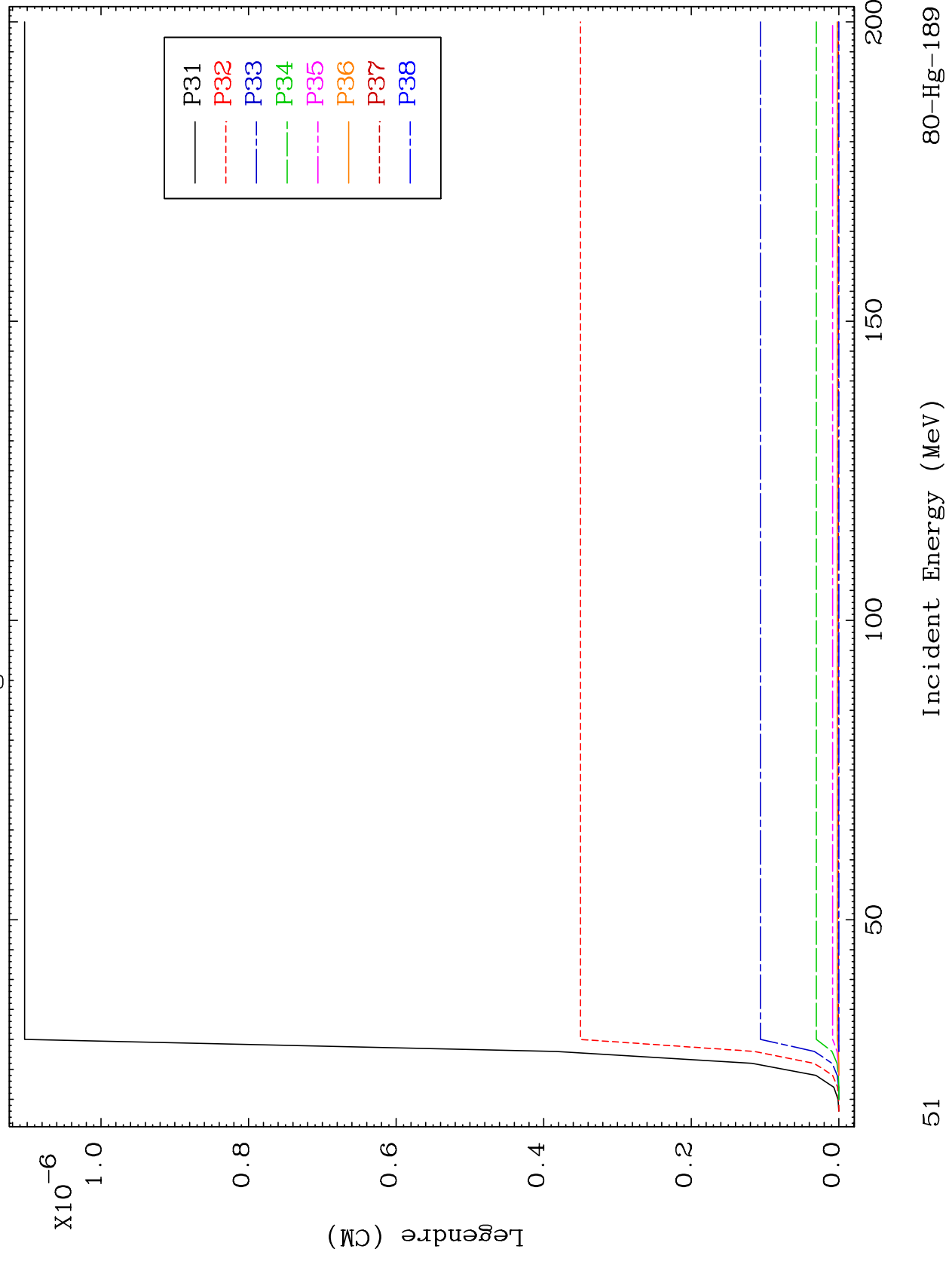
80-Hg-189



MAT 8004

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

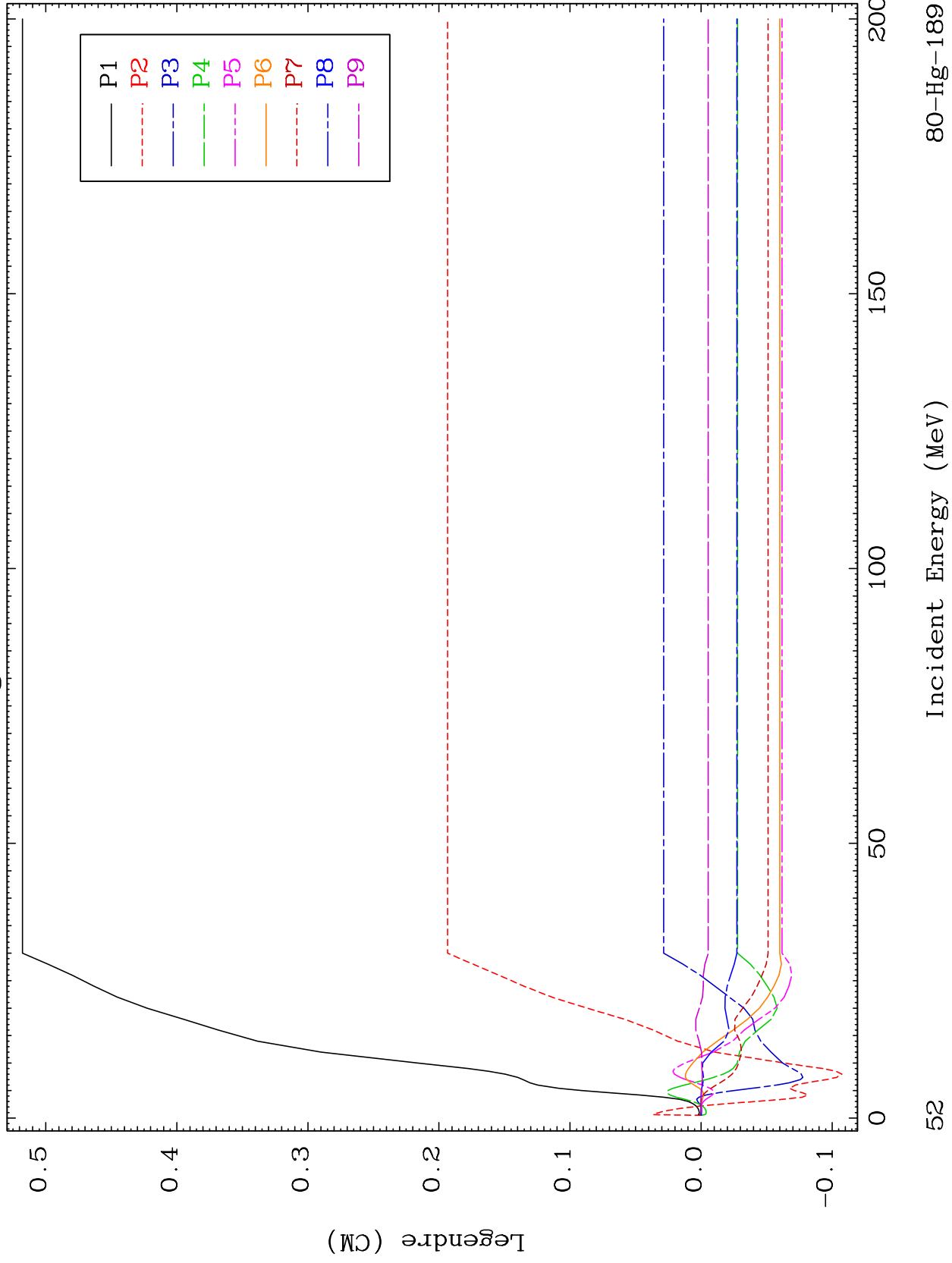
80-Hg-189



MAT 8004

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

80-Hg-189



80-Hg-189

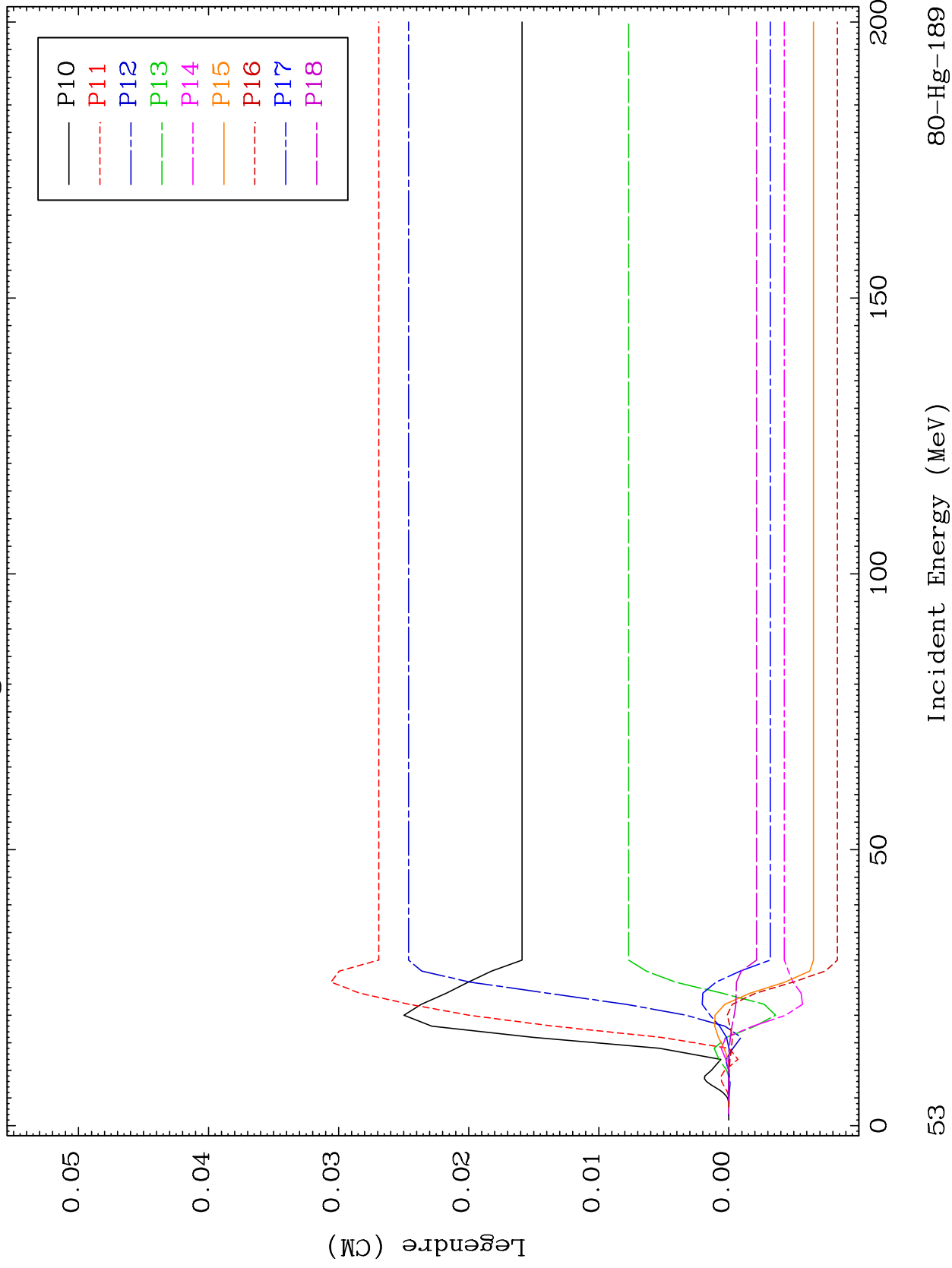
Incident Energy (MeV)

52

MAT 8004

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

80-Hg-189



53

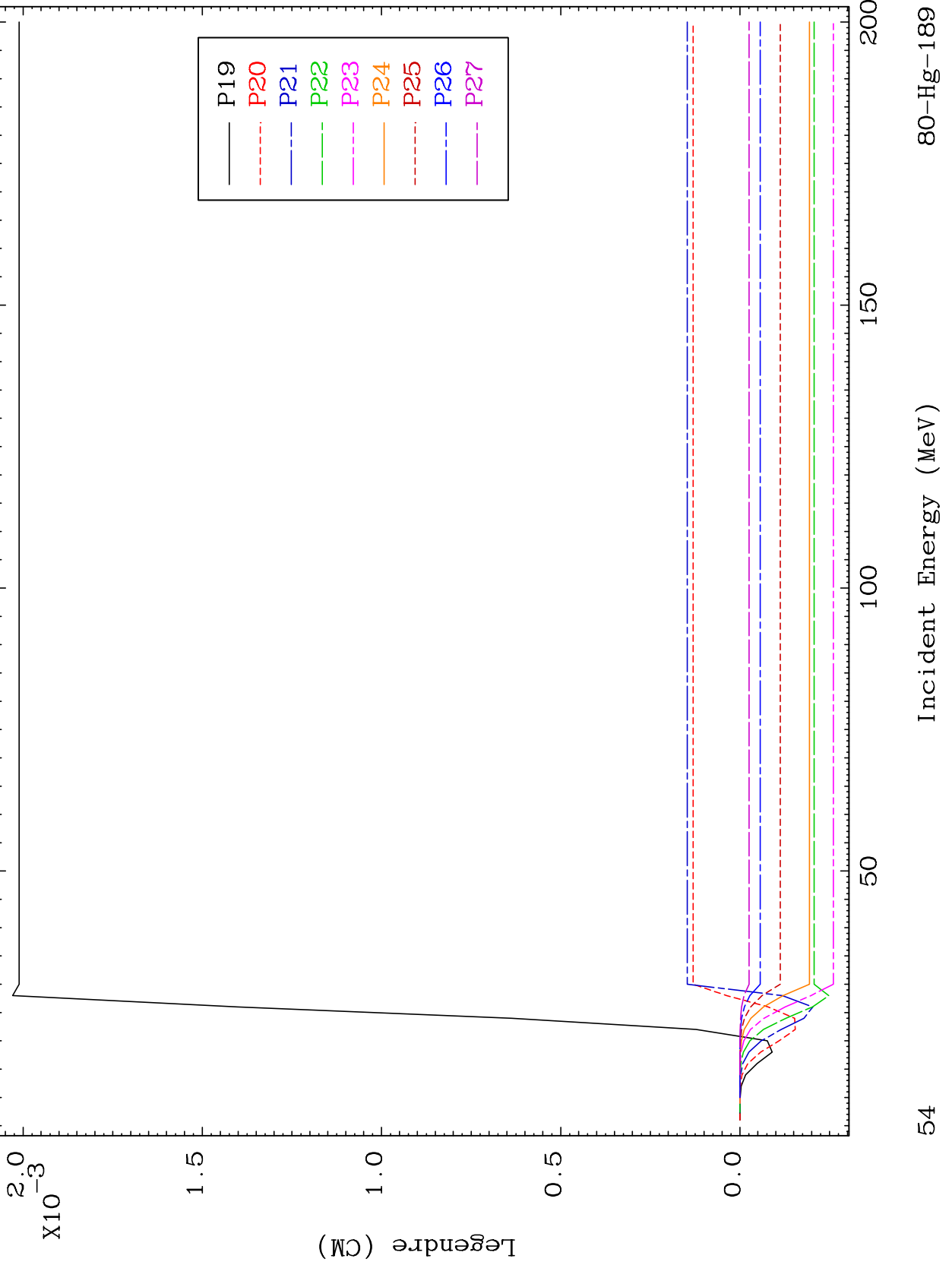
Incident Energy (MeV)

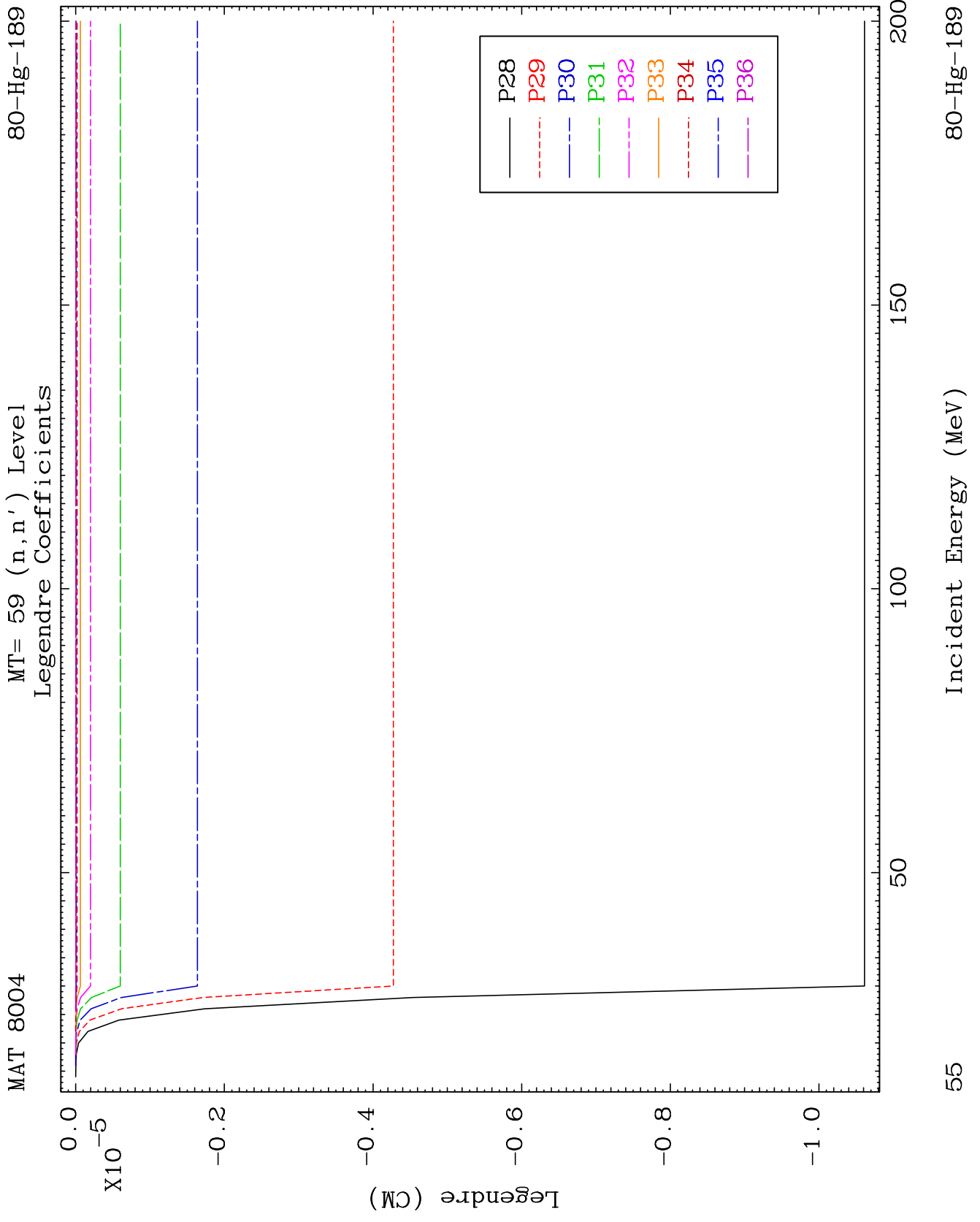
80-Hg-189

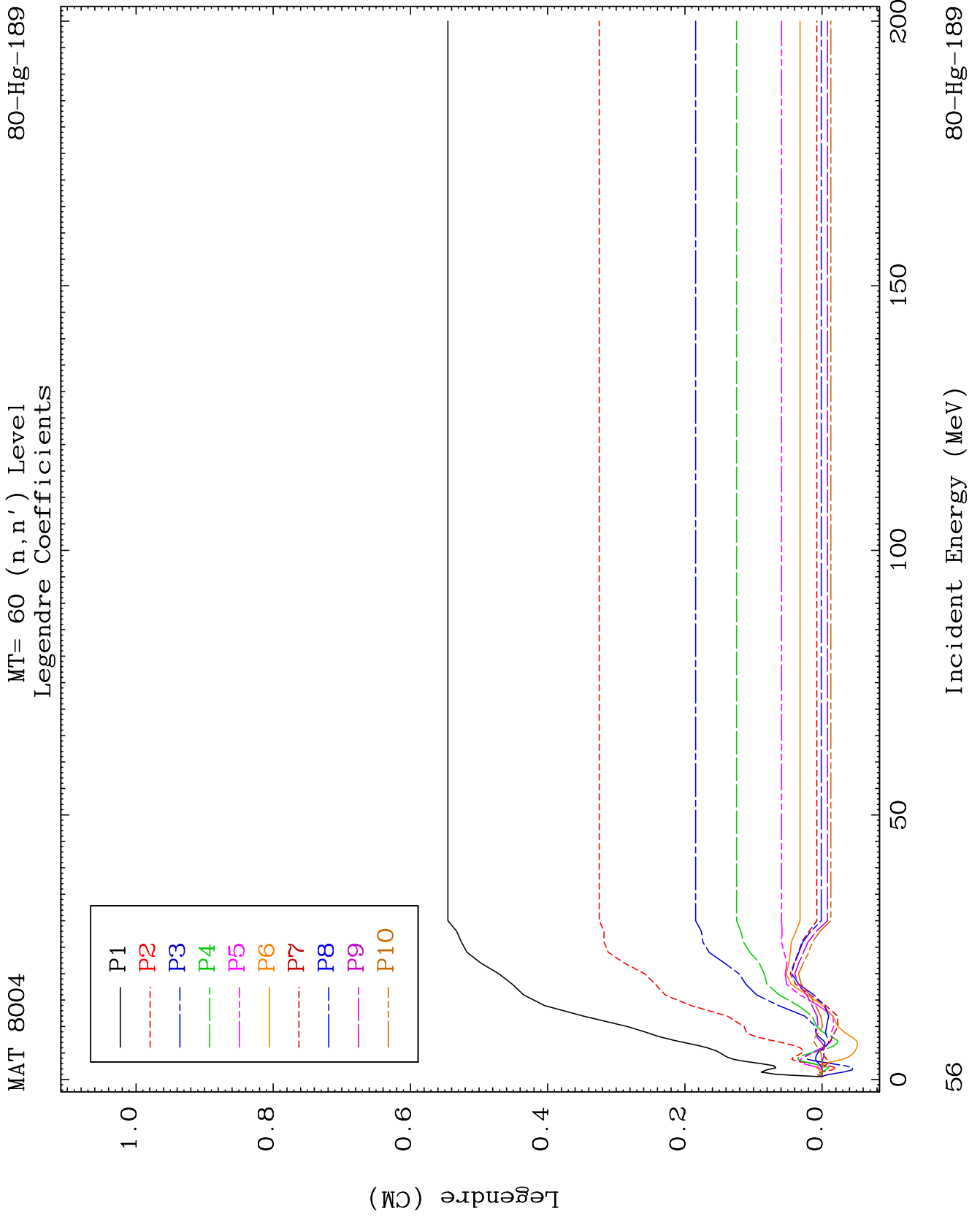
MAT 8004

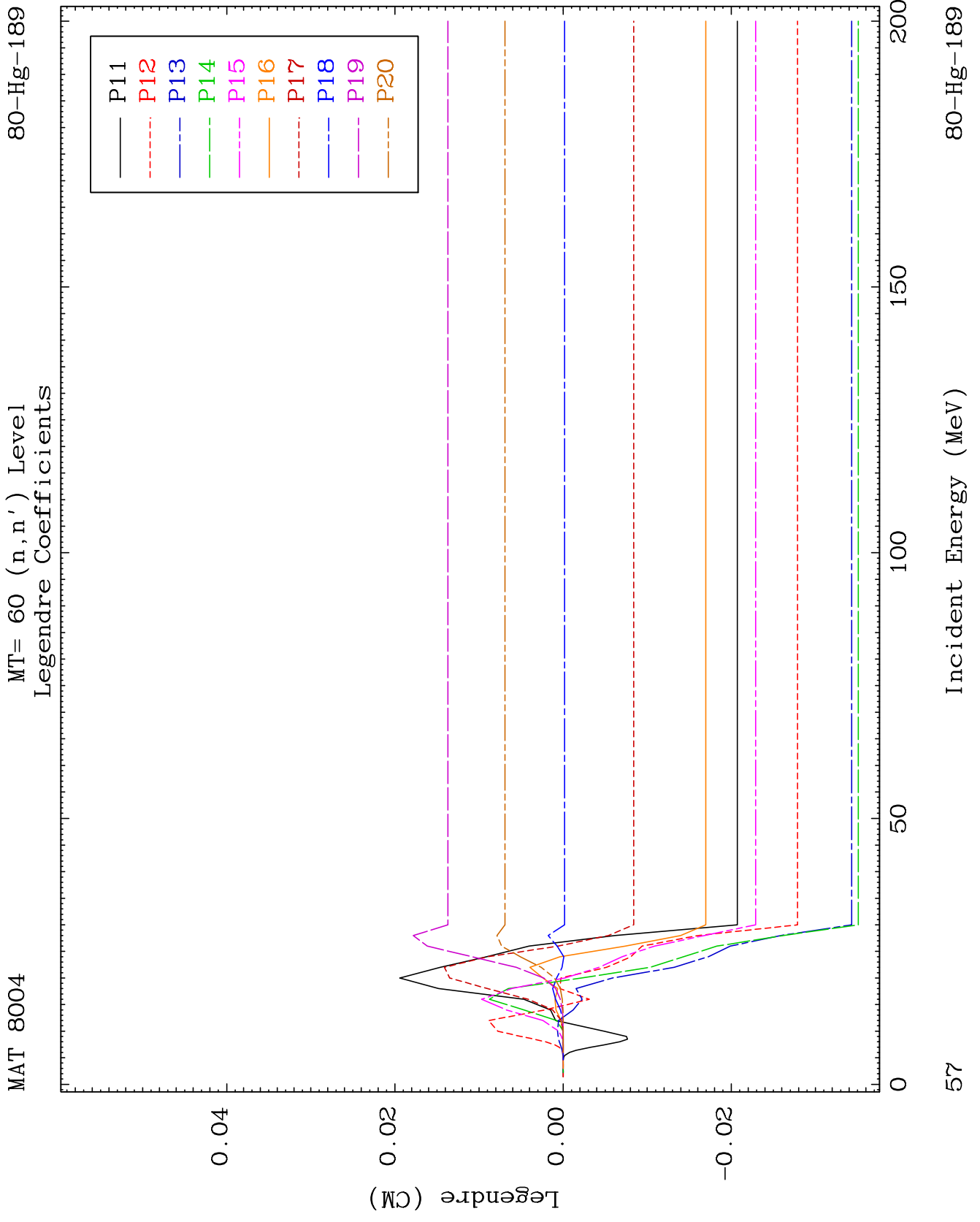
MT= 59 (n,n') Level
Legendre Coefficients

80-Hg-189





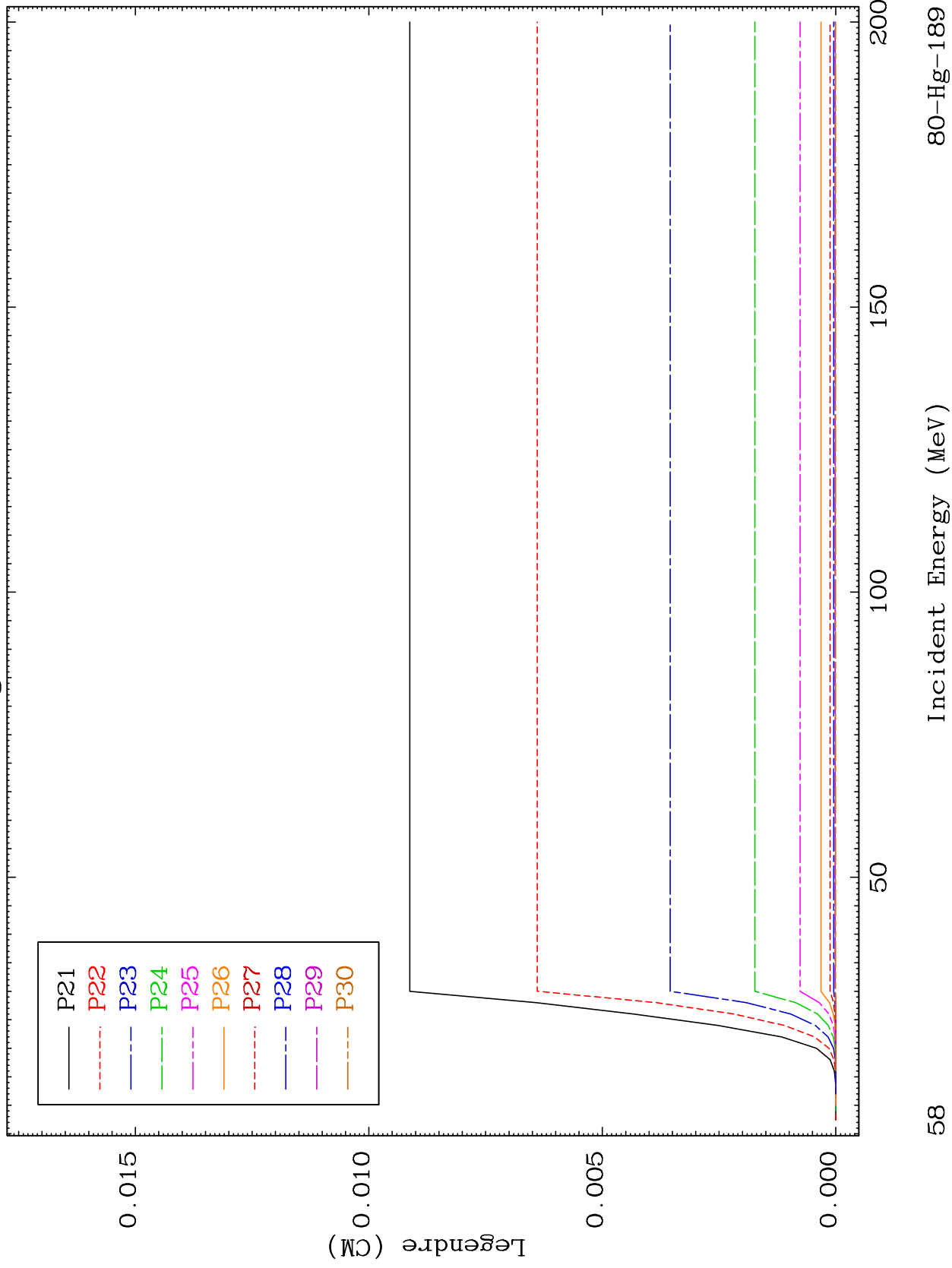




MAT 8004

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

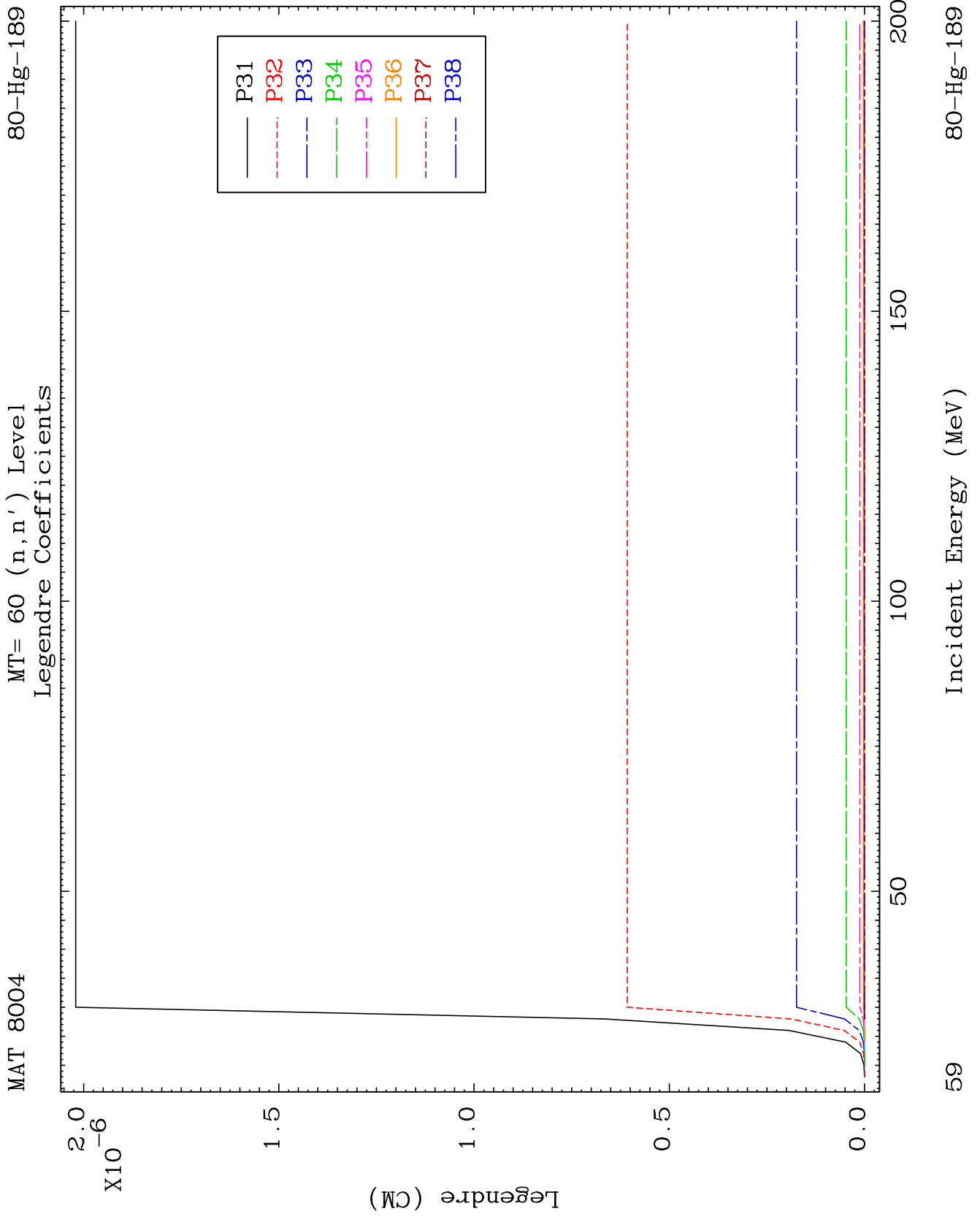
80-Hg-189

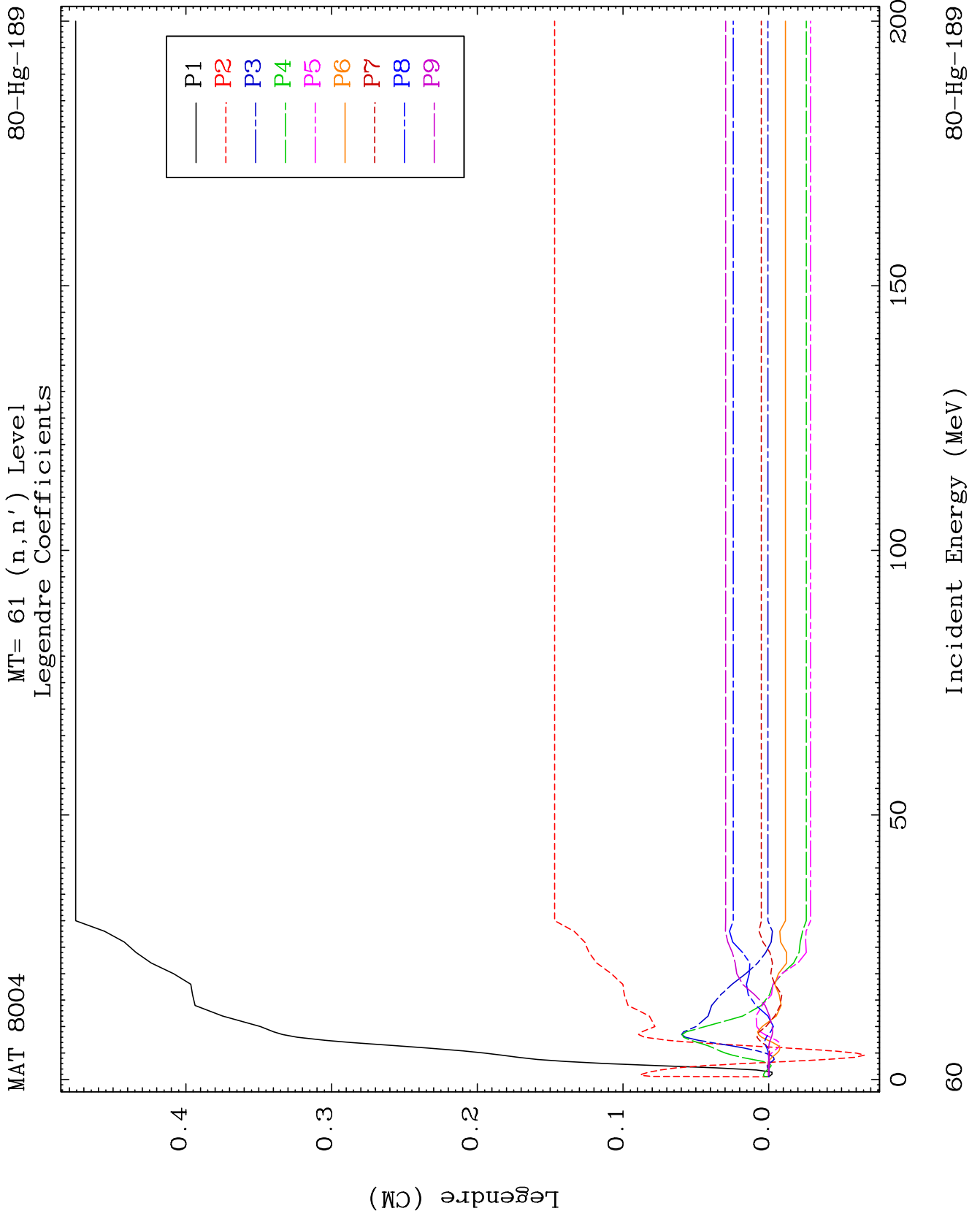


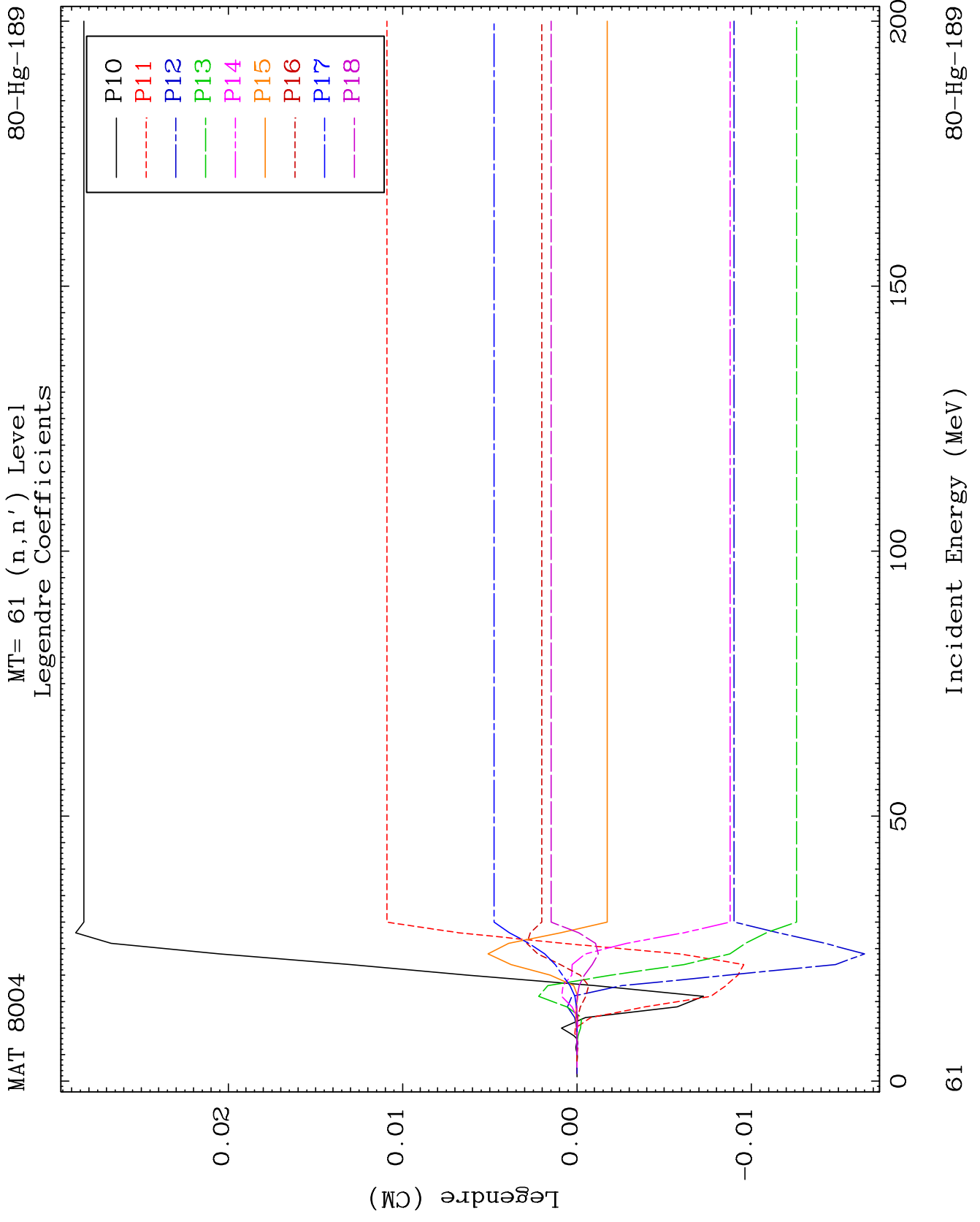
58

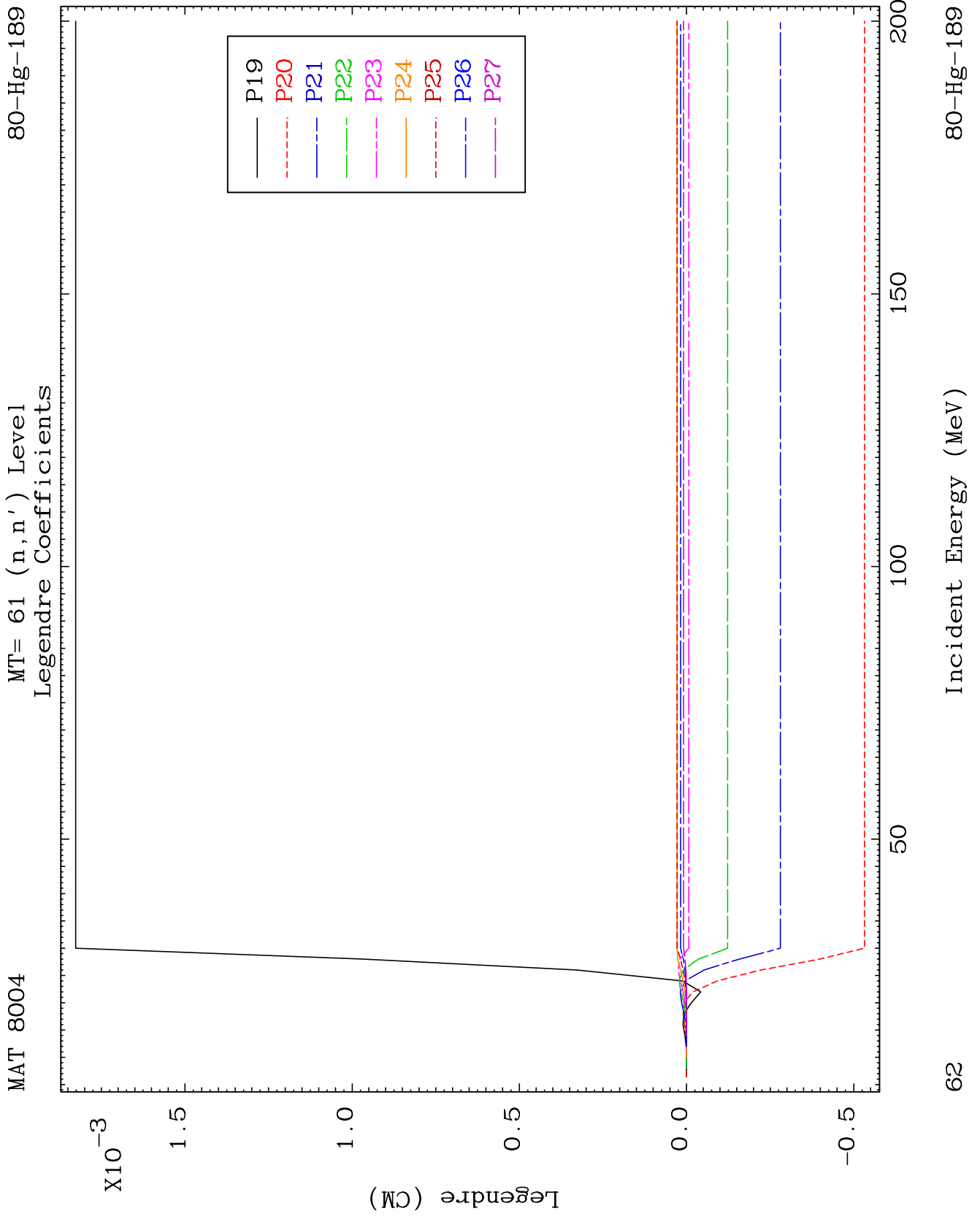
Incident Energy (MeV)

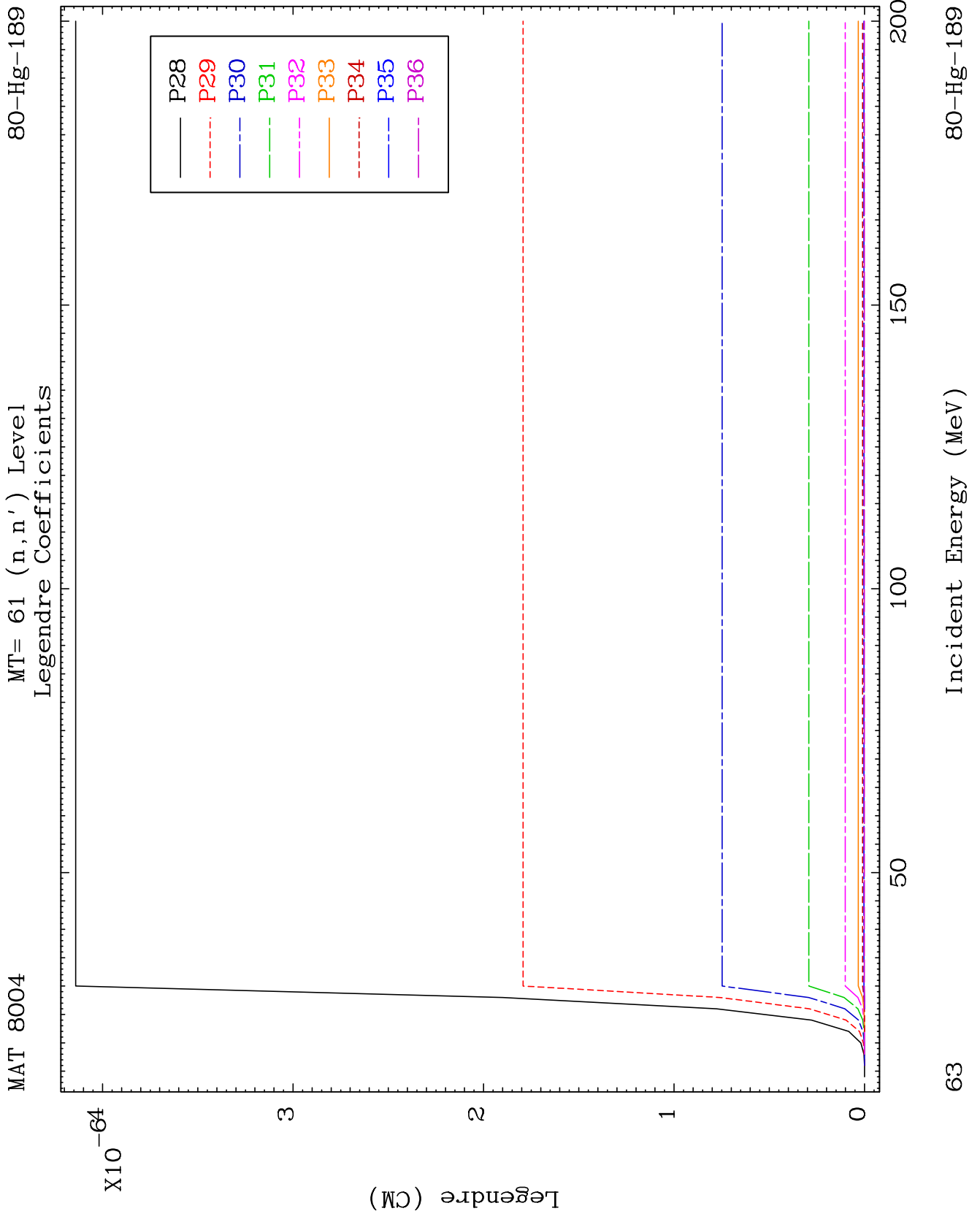
80-Hg-189







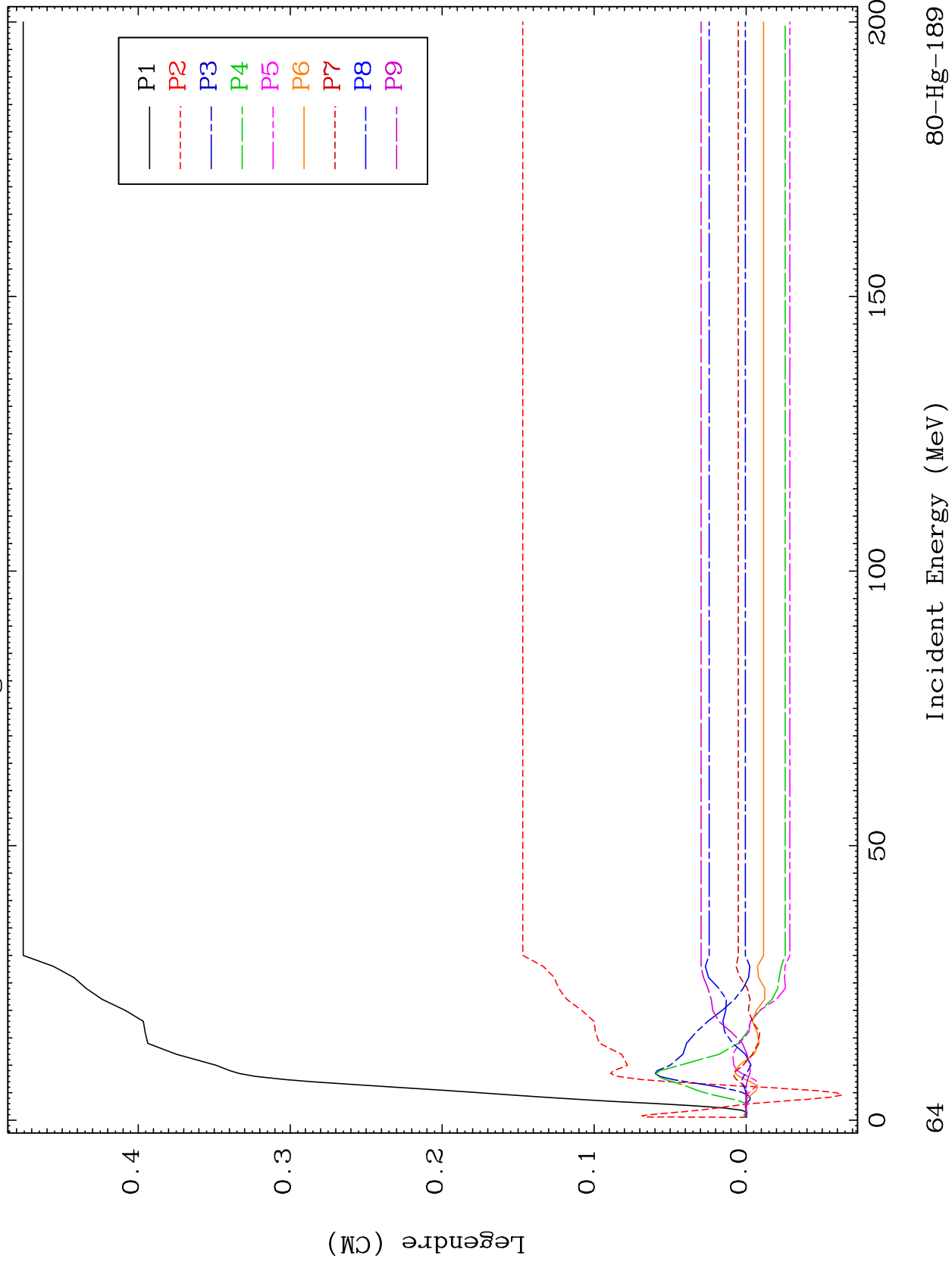




MAT 8004

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

80-Hg-189



80-Hg-189

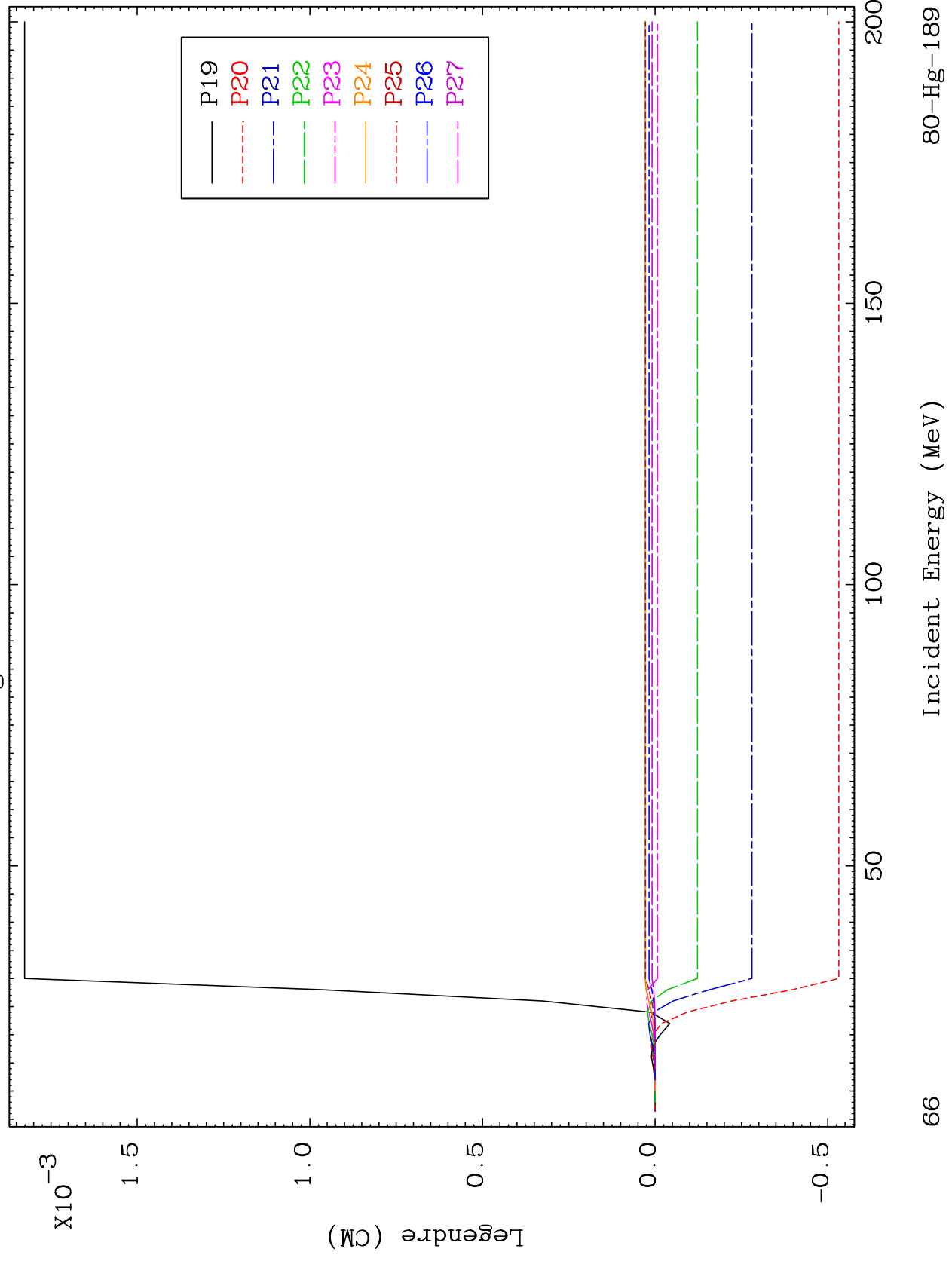
Incident Energy (MeV)

64

MAT 8004

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

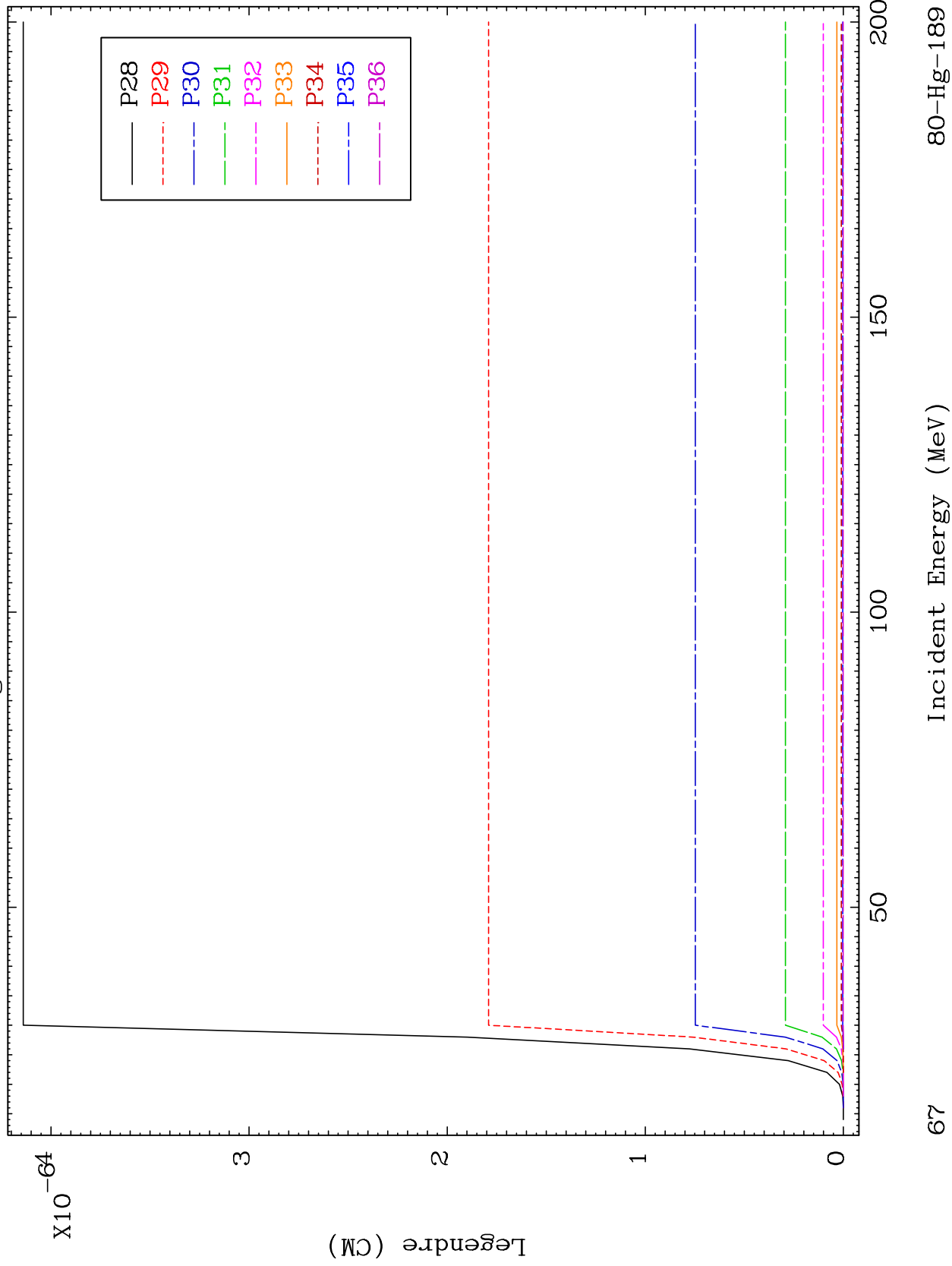
80-Hg-189

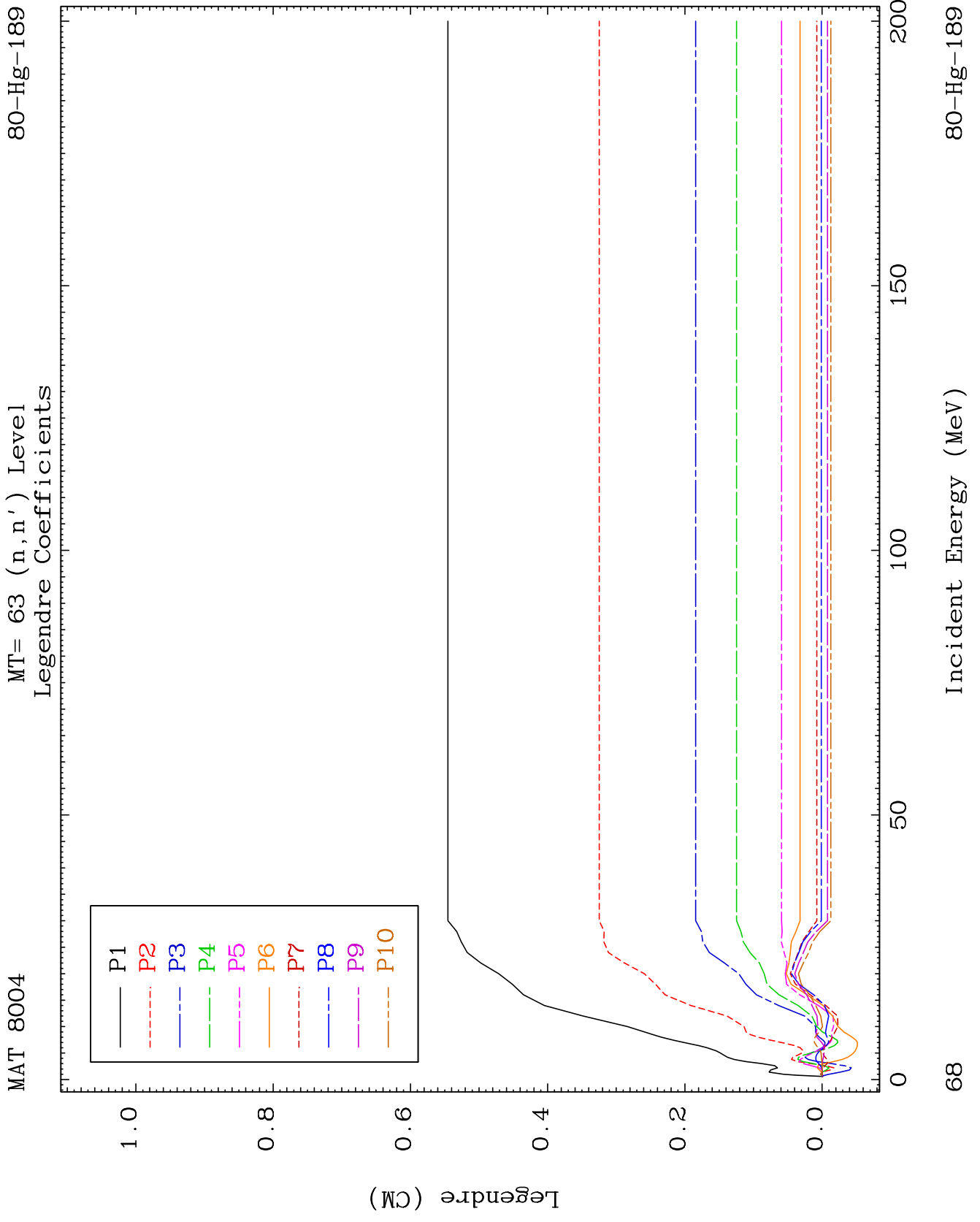


MAT 8004

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

80-Hg-189

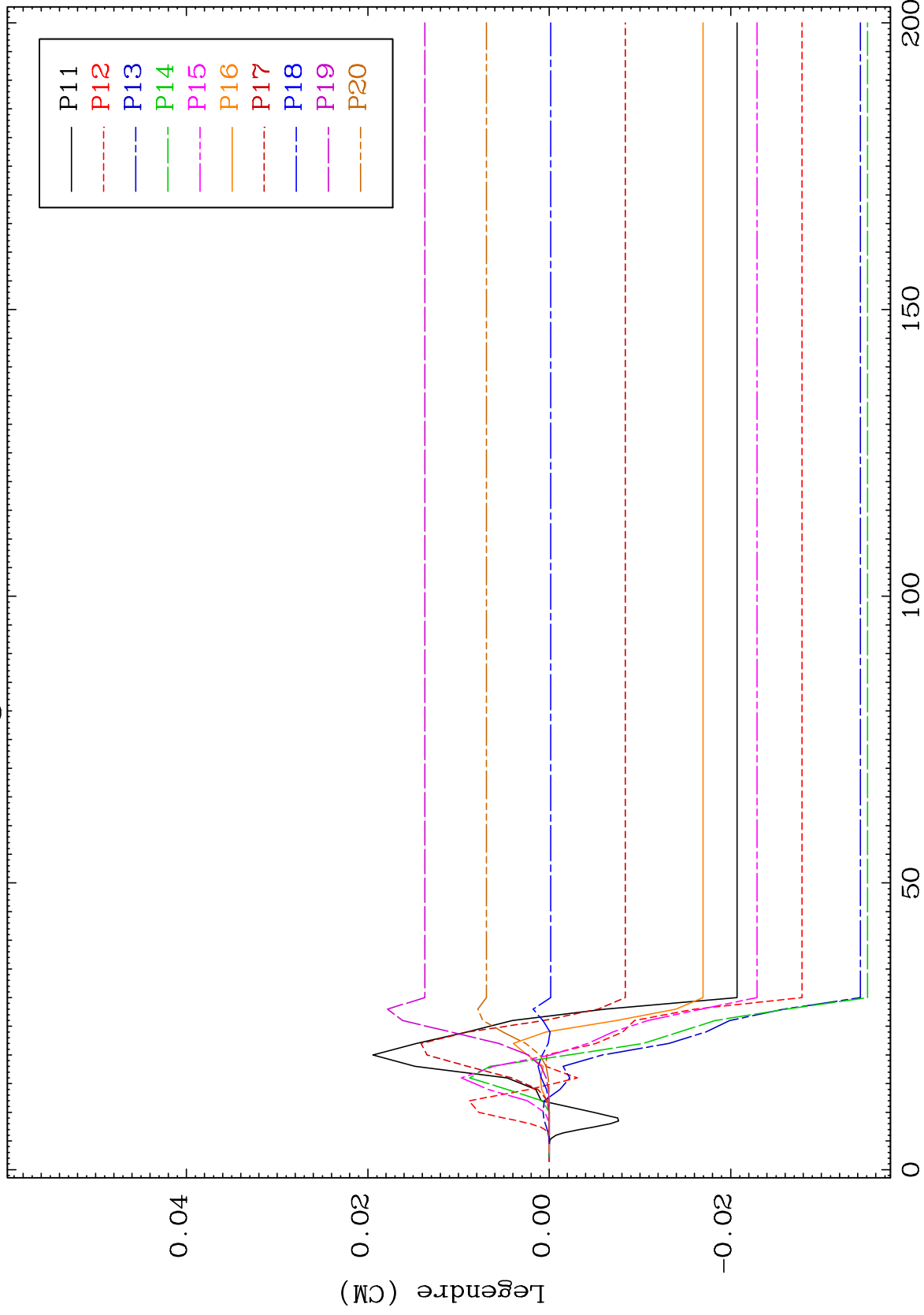




MAT 8004

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

80-Hg-189



69

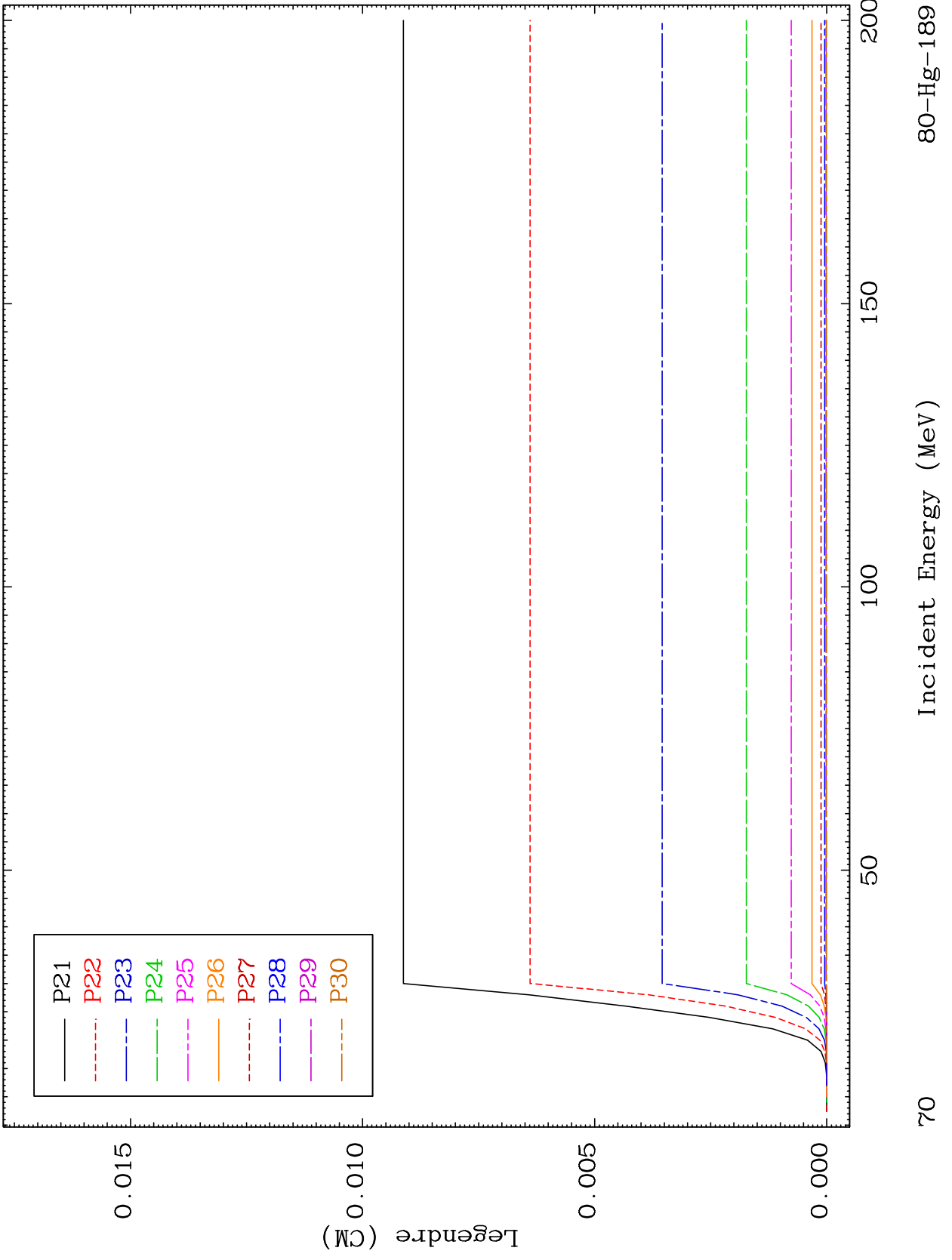
Incident Energy (MeV)

80-Hg-189

MAT 8004

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

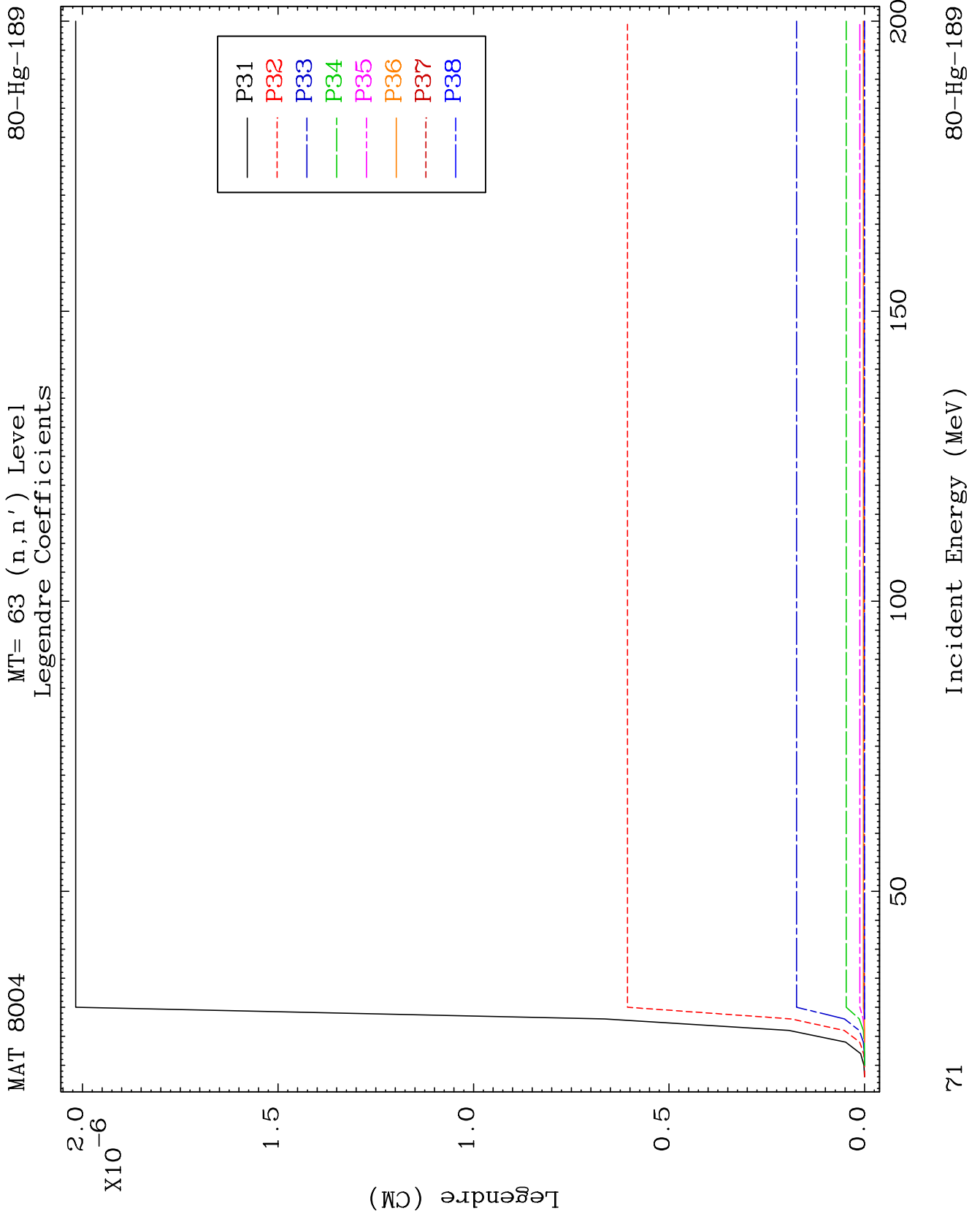
80-Hg-189

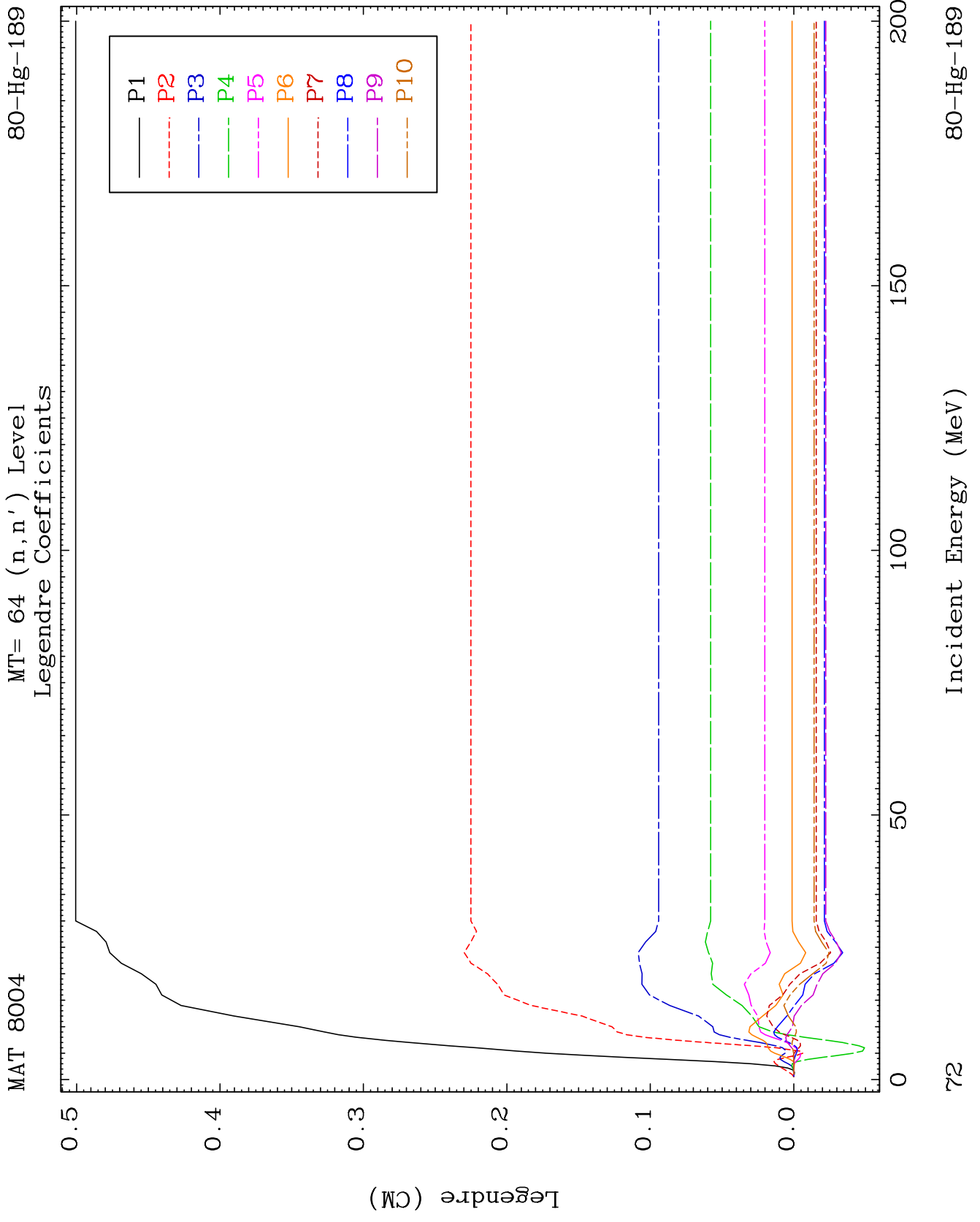


70

Incident Energy (MeV)

80-Hg-189

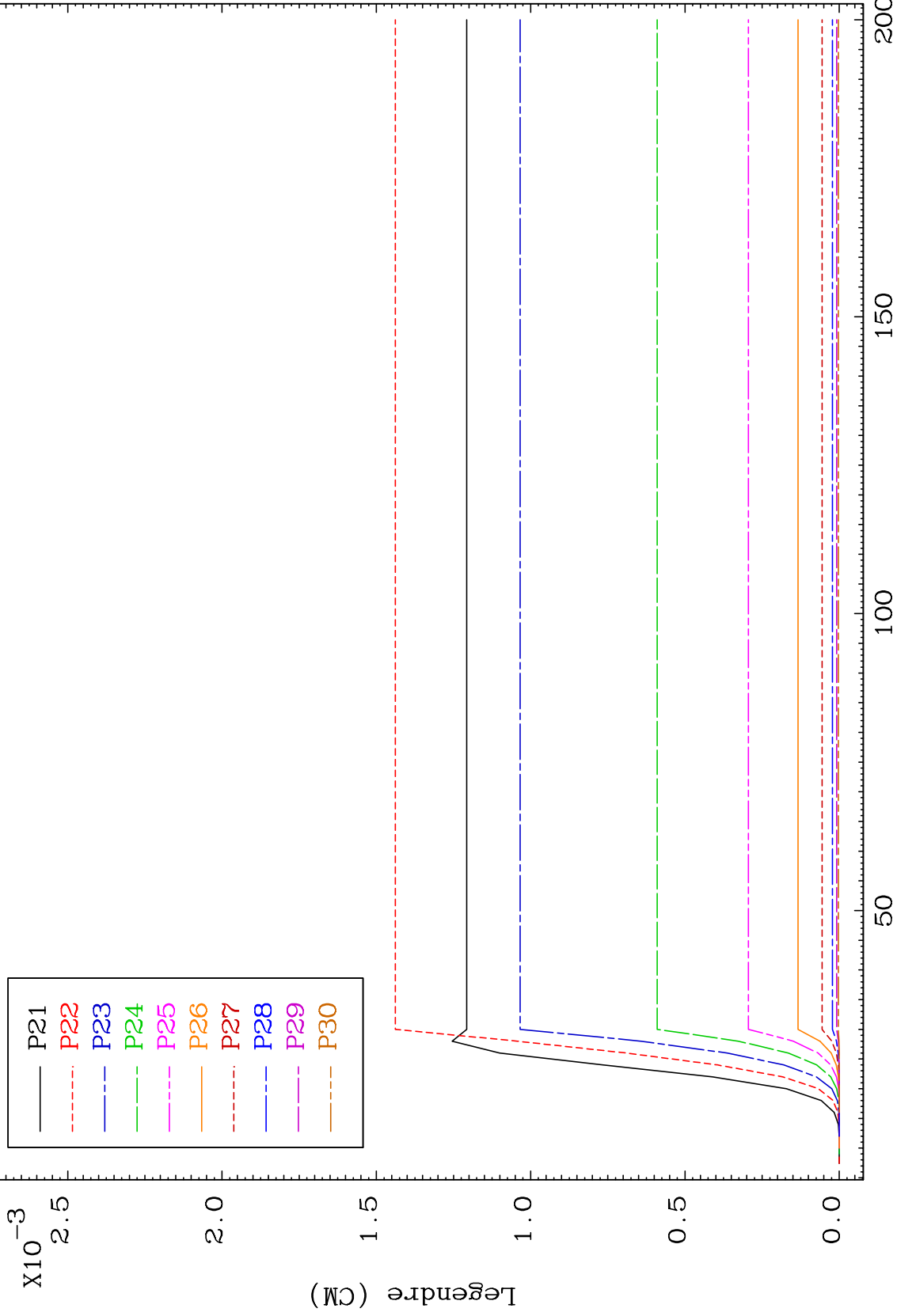
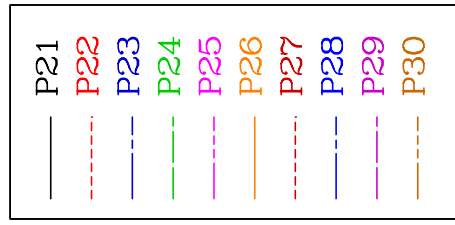




MAT 8004

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

80-Hg-189



74

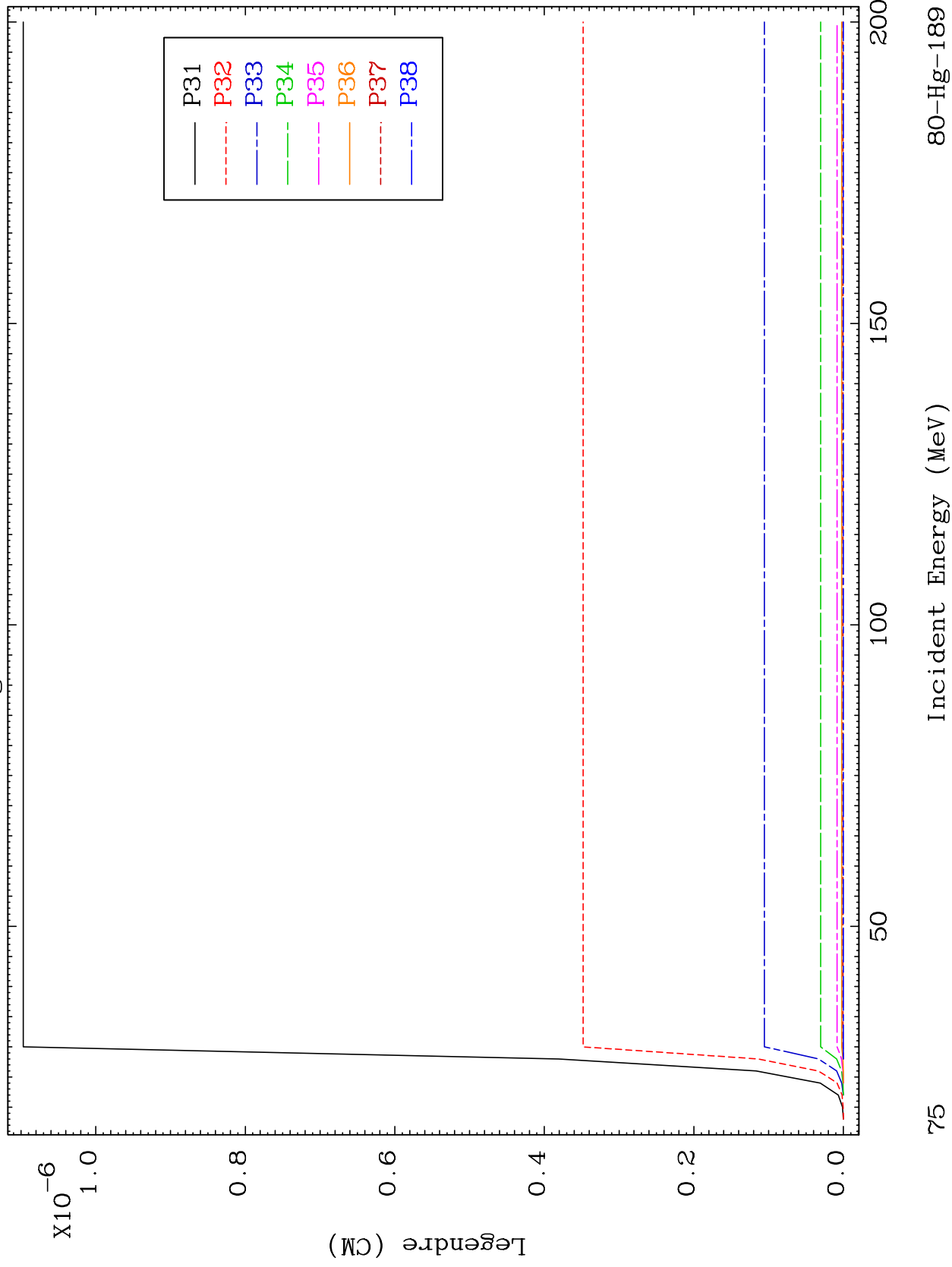
Incident Energy (MeV)

80-Hg-189

MAT 8004

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

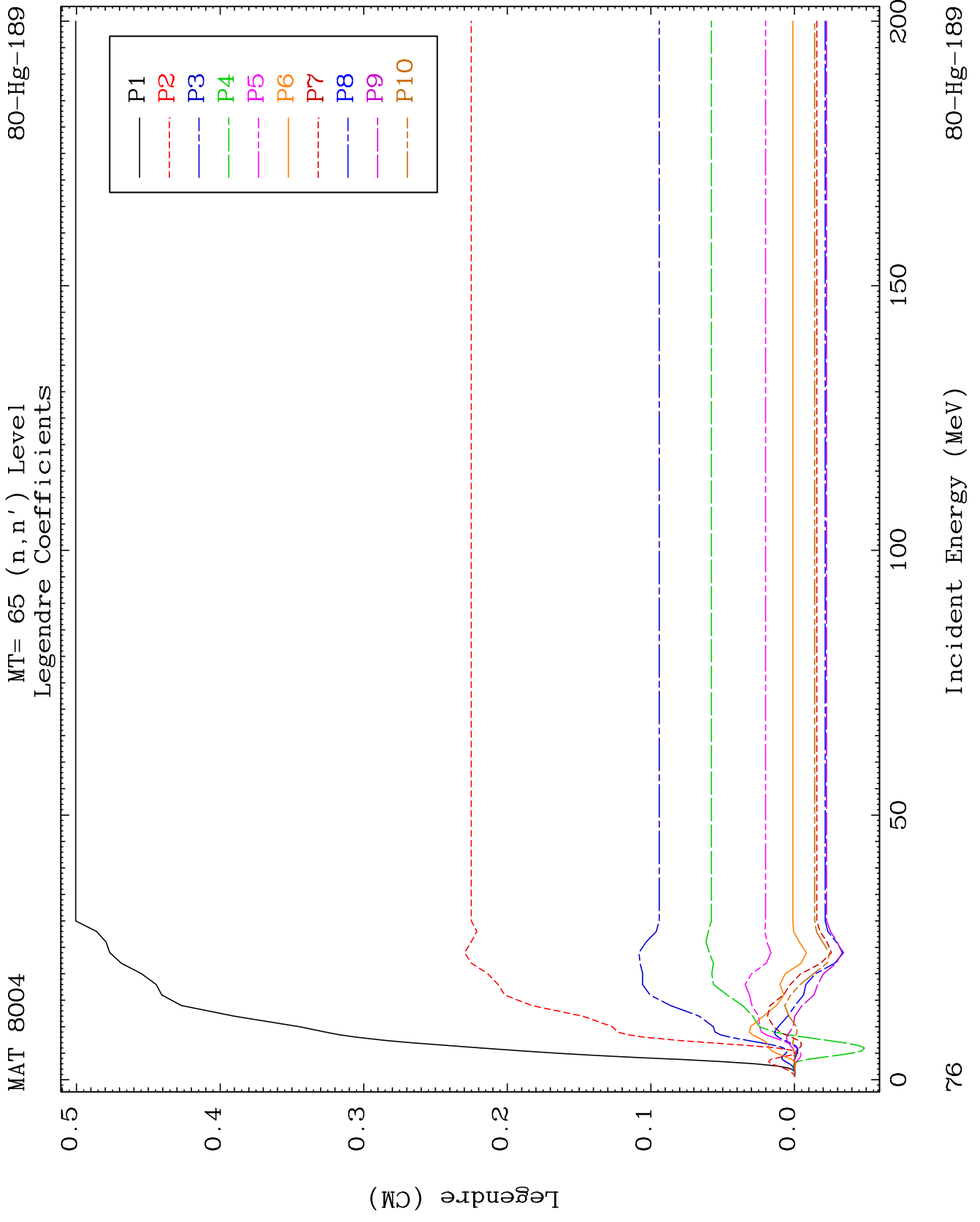
80-Hg-189

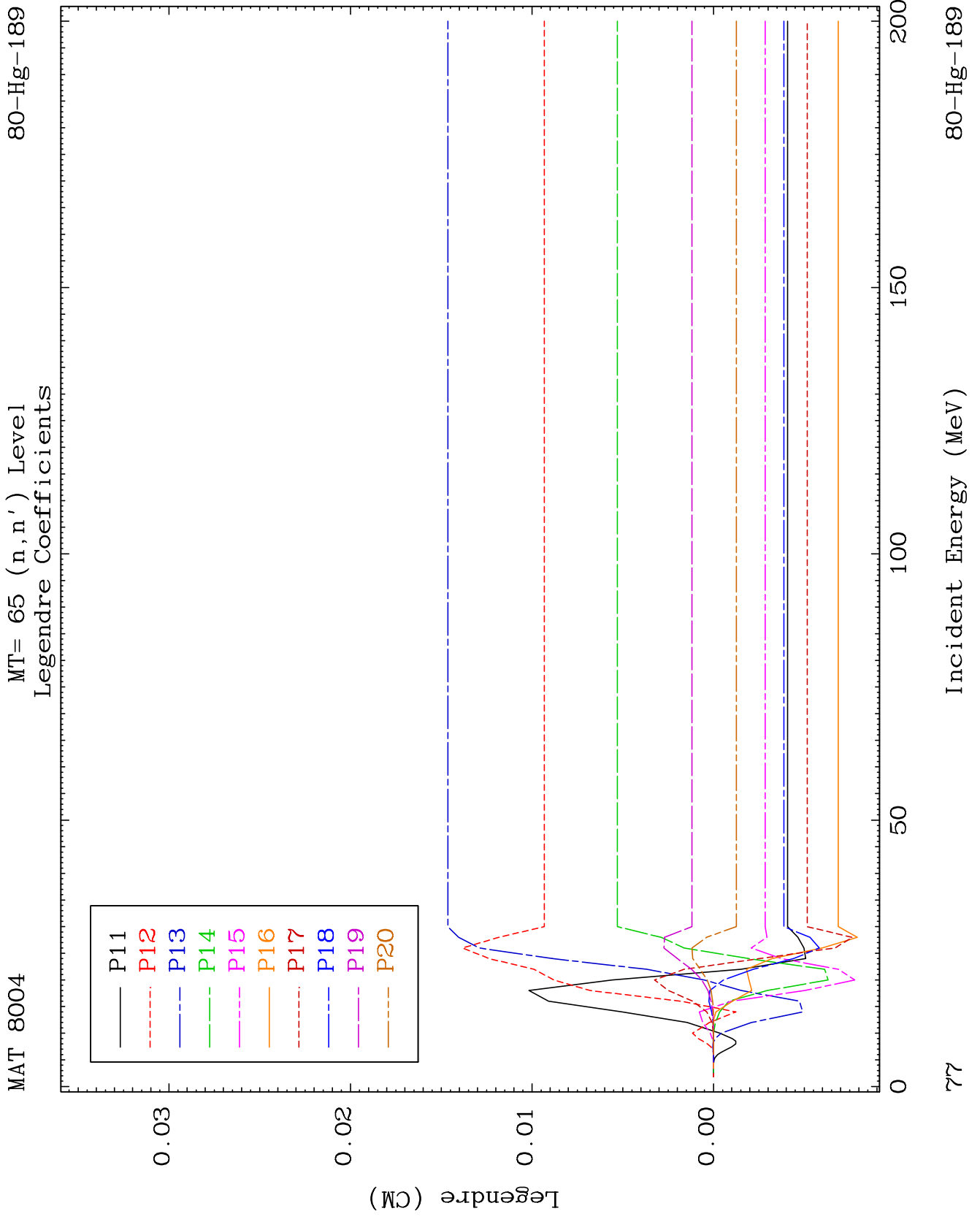


75

Incident Energy (MeV)

80-Hg-189

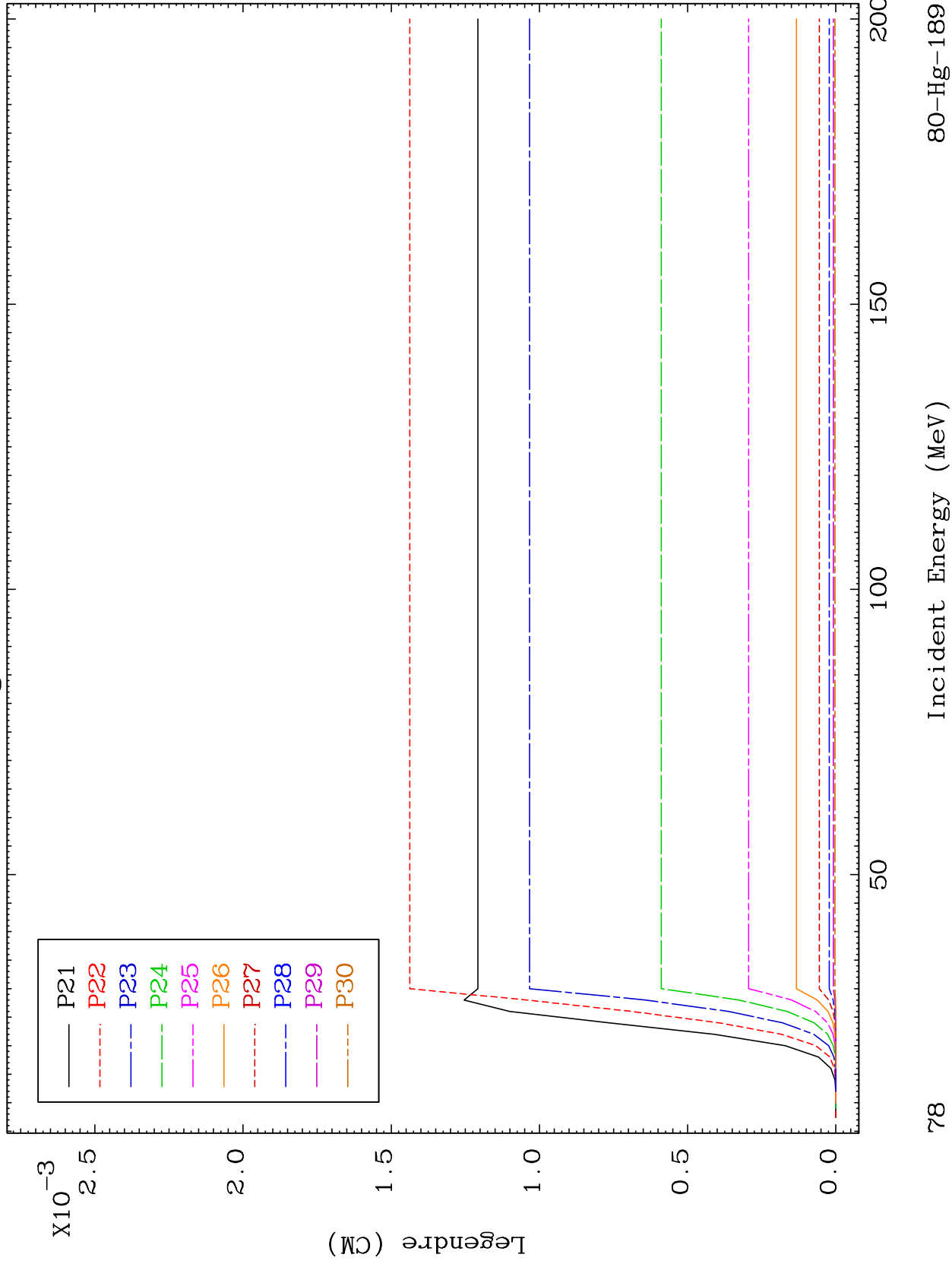




MAT 8004

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

80-Hg-189



78

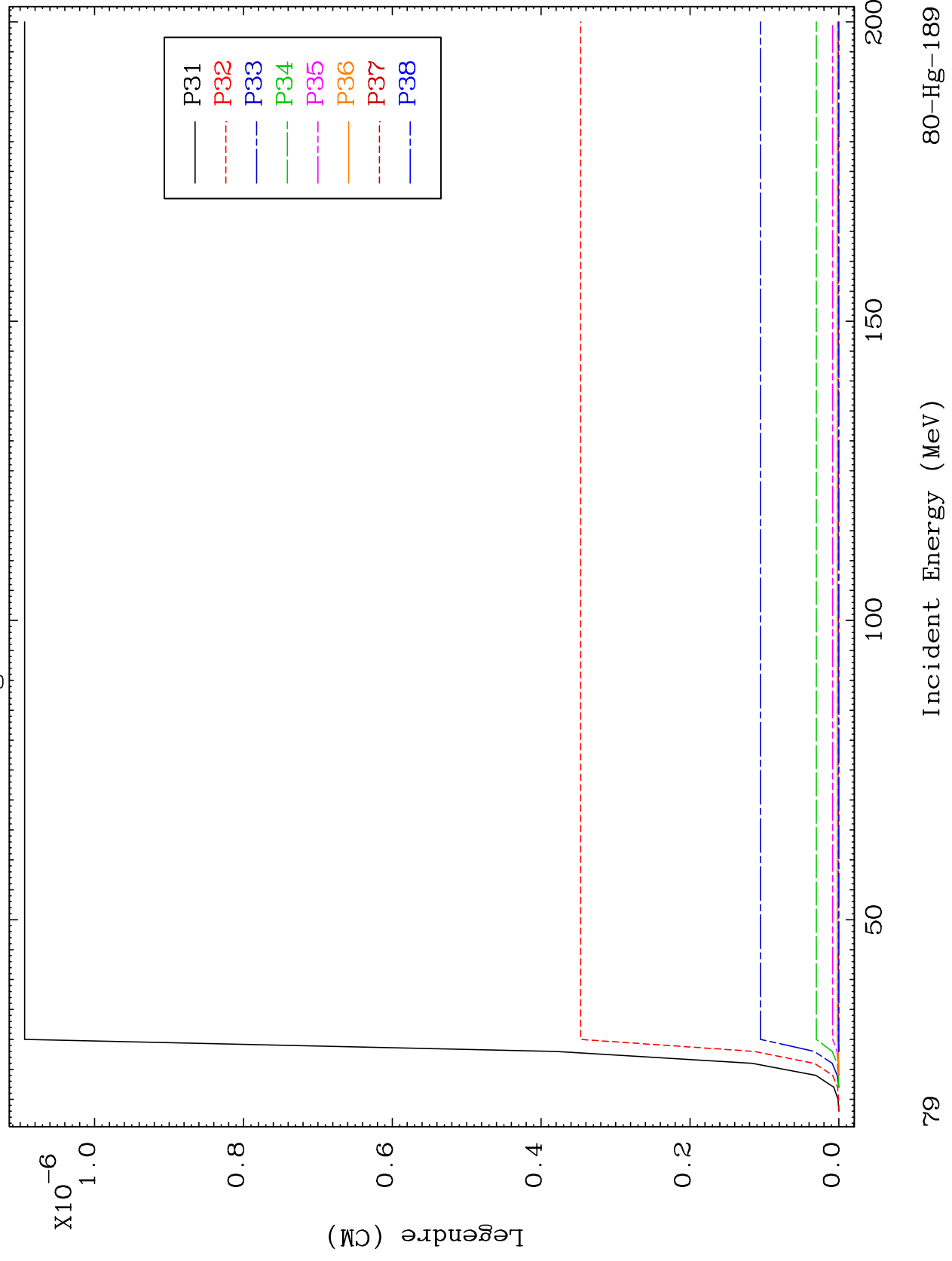
Incident Energy (MeV)

80-Hg-189

MAT 8004

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

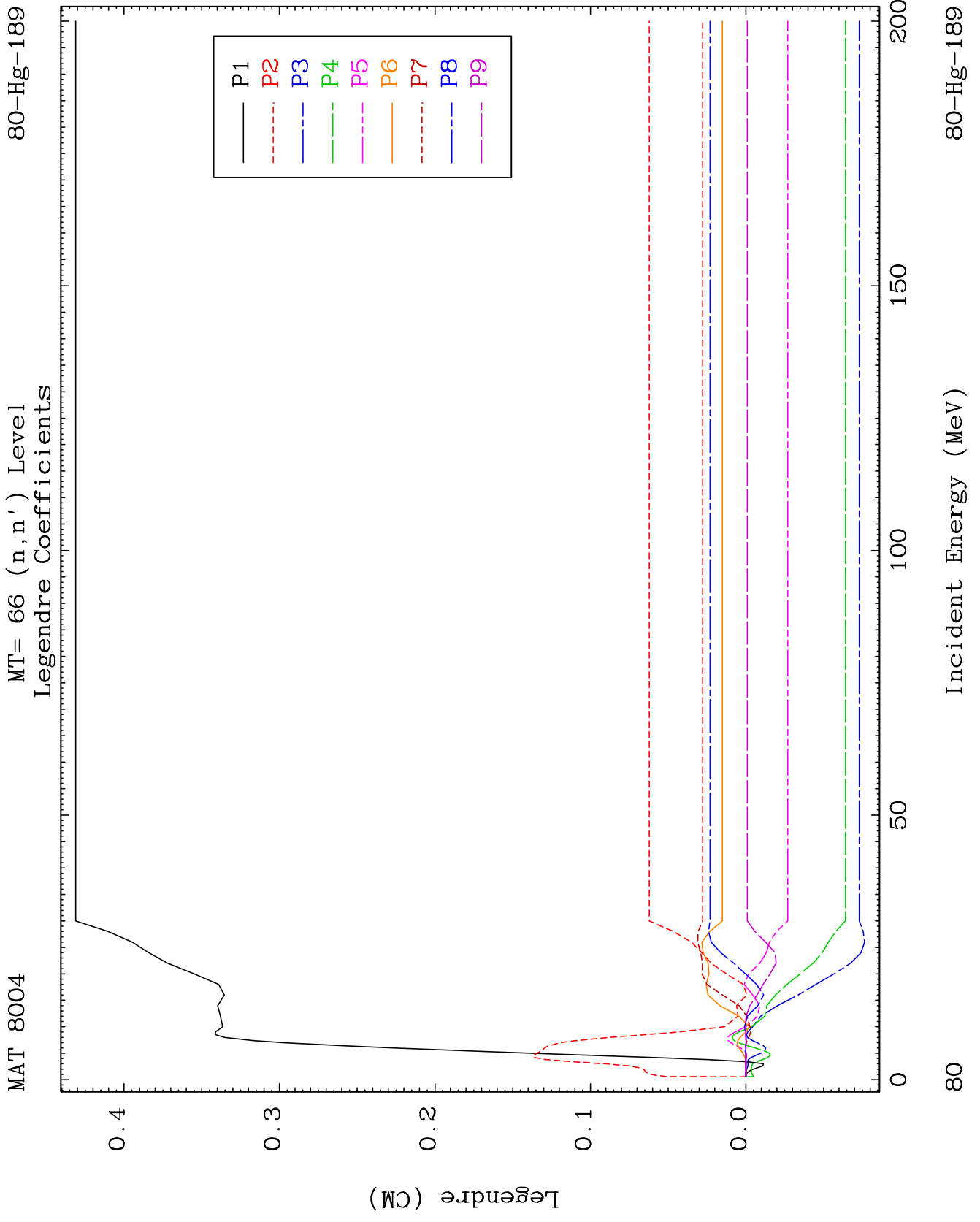
80-Hg-189



79

Incident Energy (MeV)

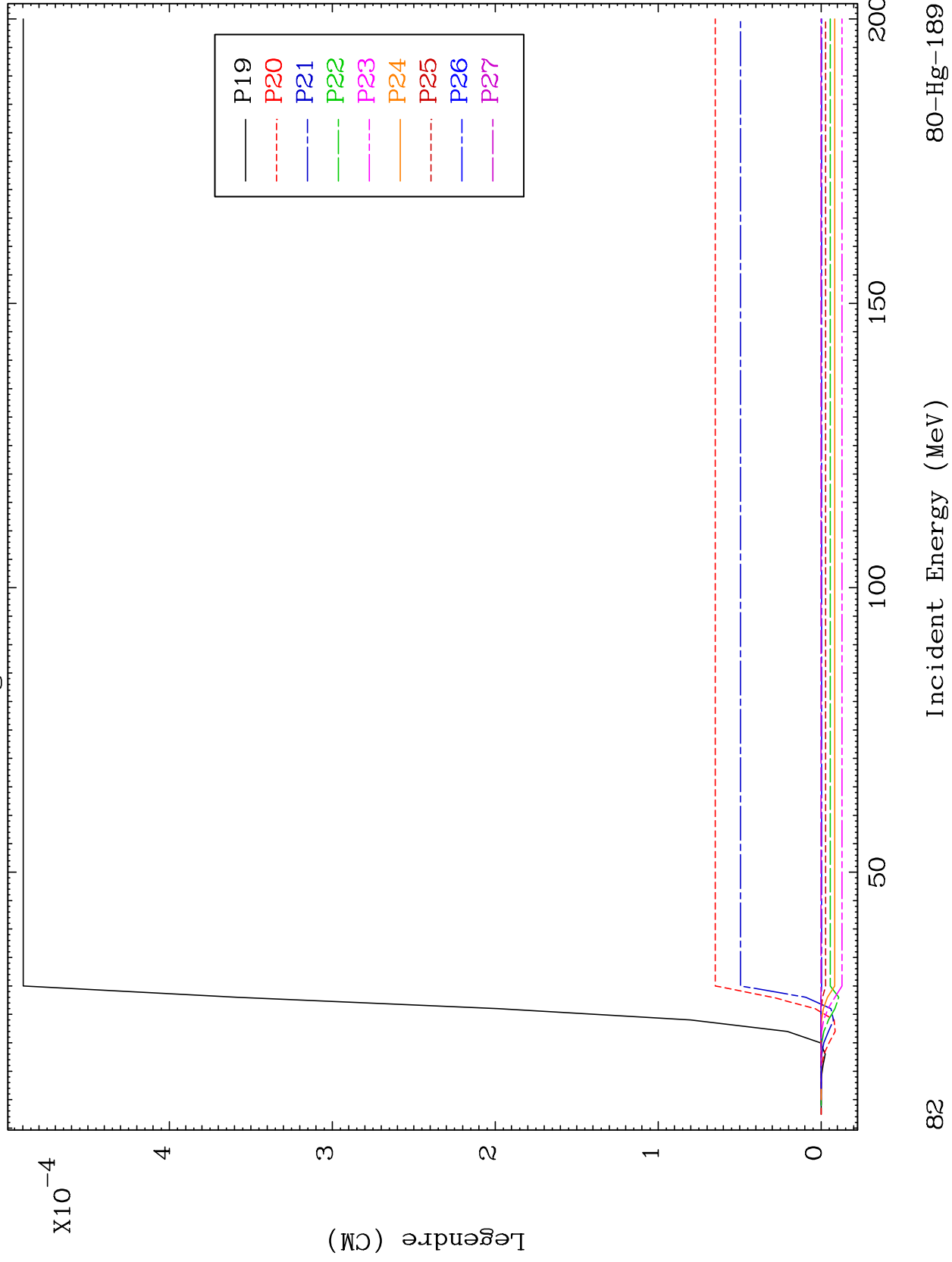
80-Hg-189



MAT 8004

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

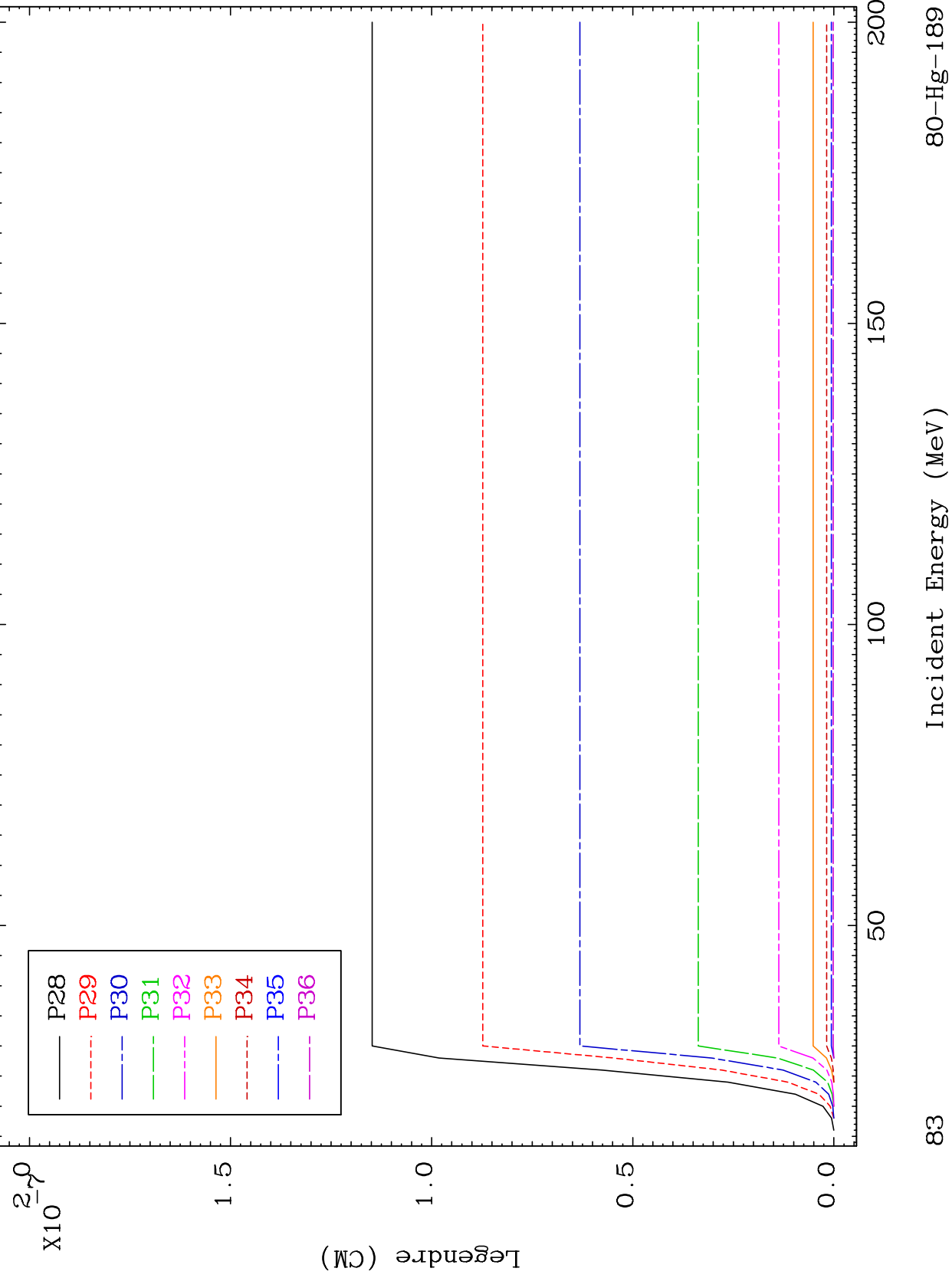
80-Hg-189



MAT 8004

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

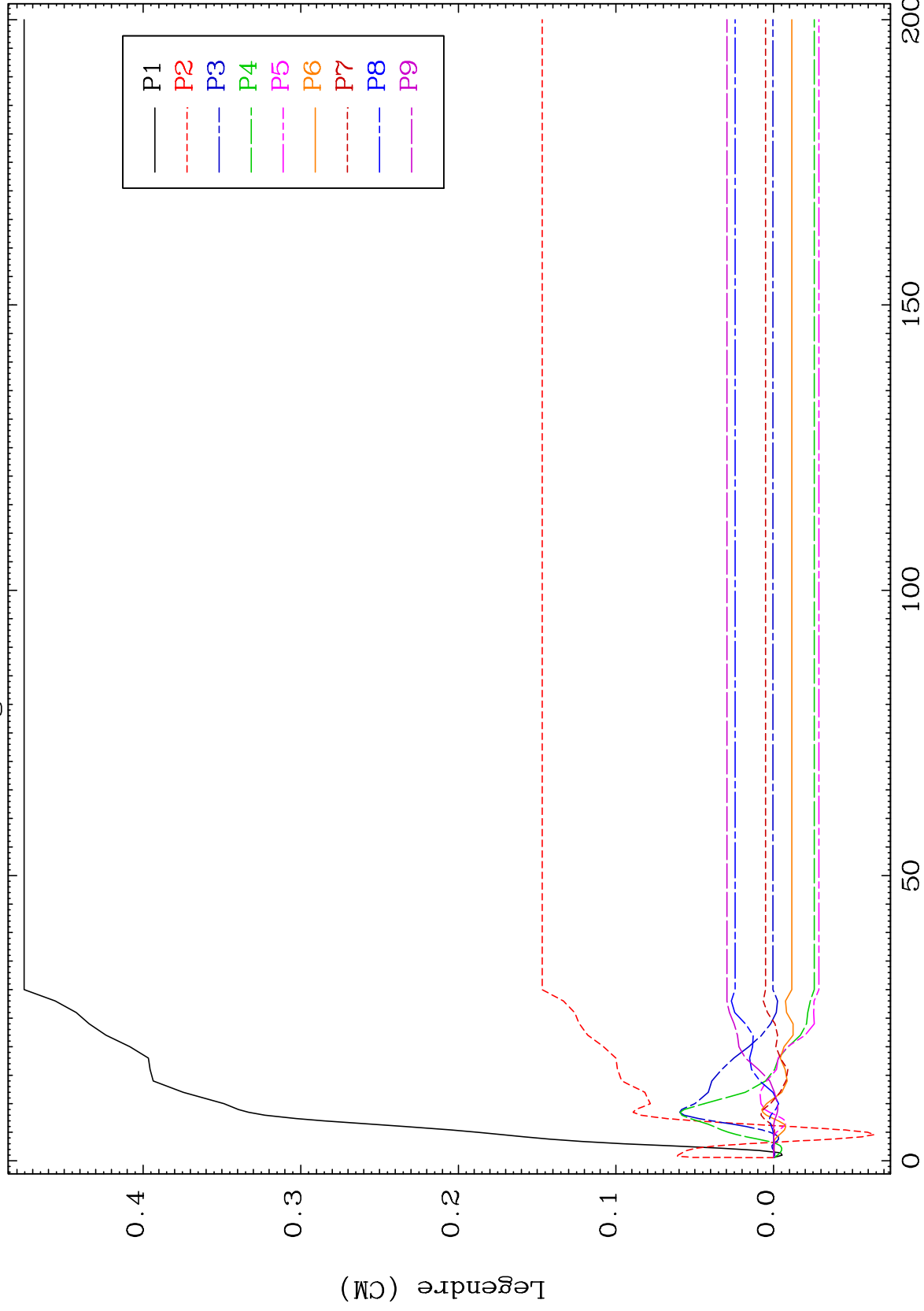
80-Hg-189



MAT 8004

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

80-Hg-189



84

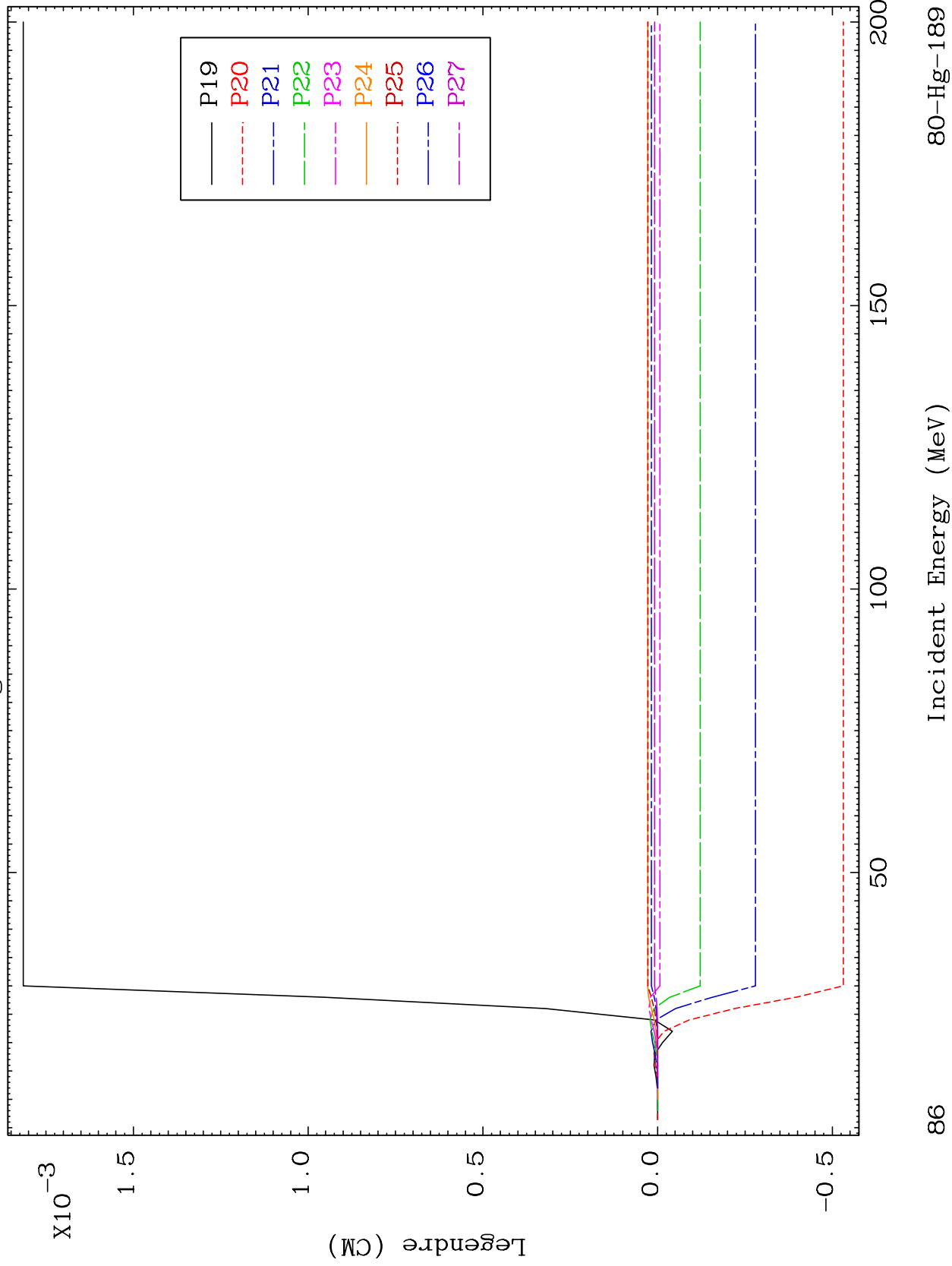
Incident Energy (MeV)

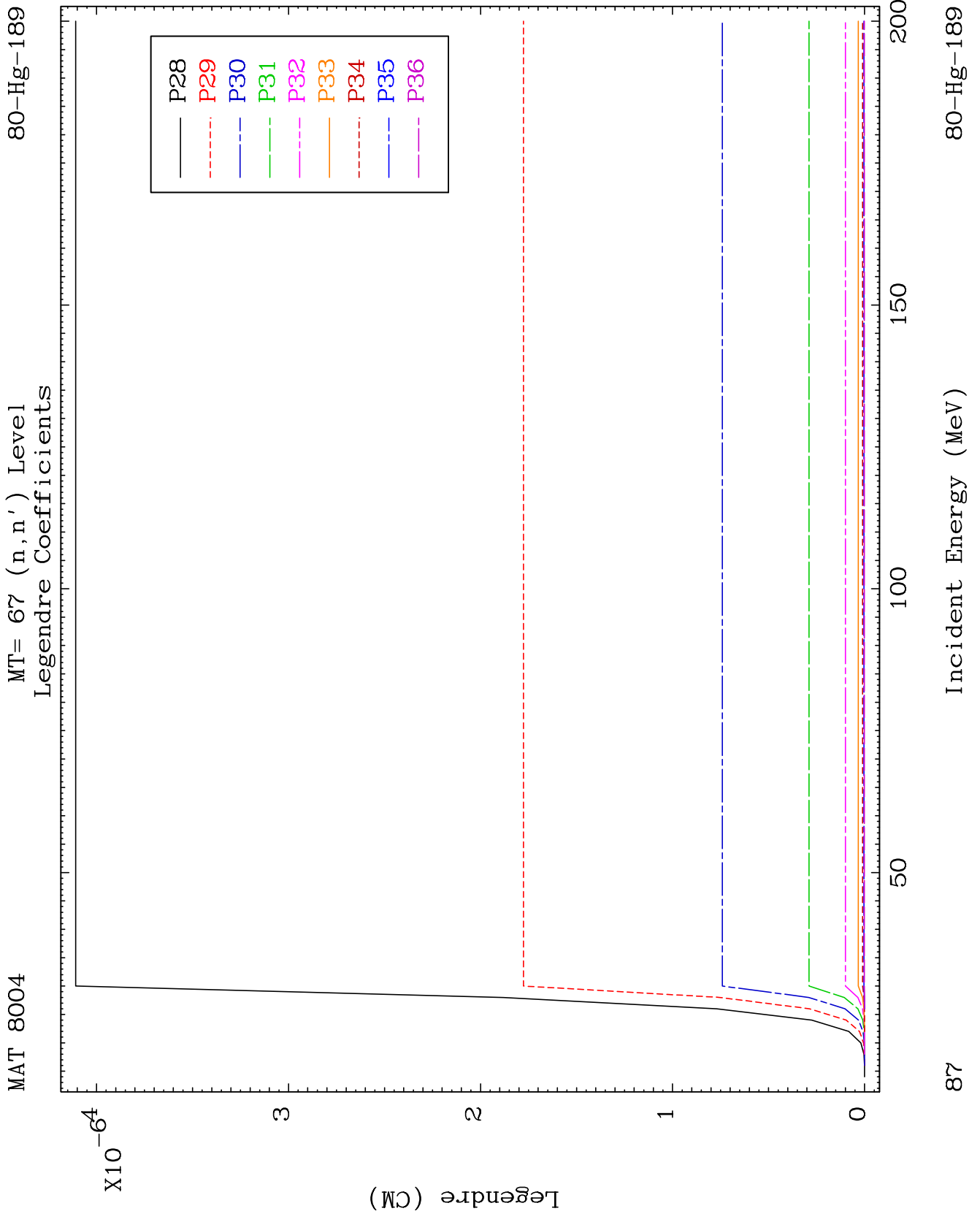
80-Hg-189

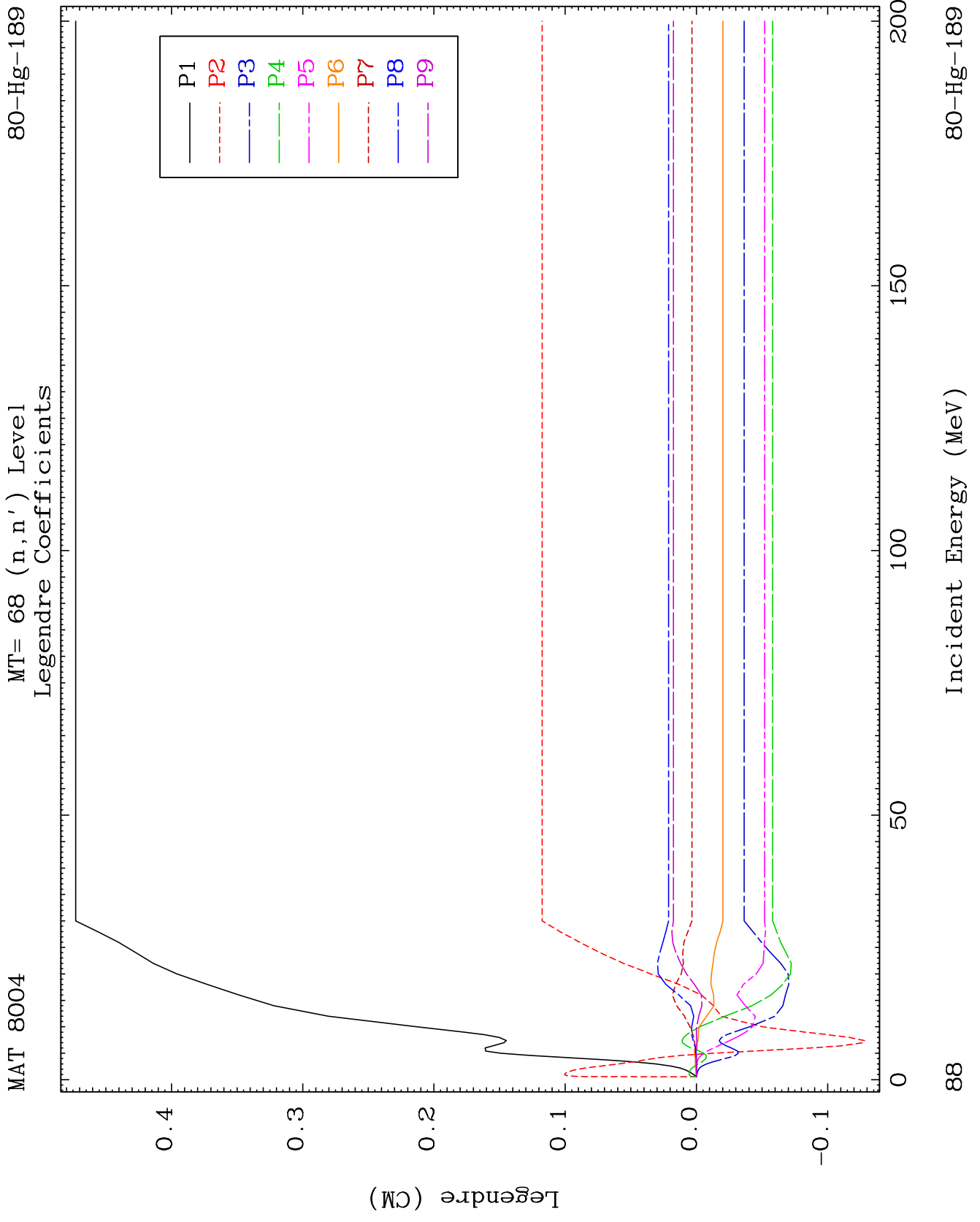
MAT 8004

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

80-Hg-189



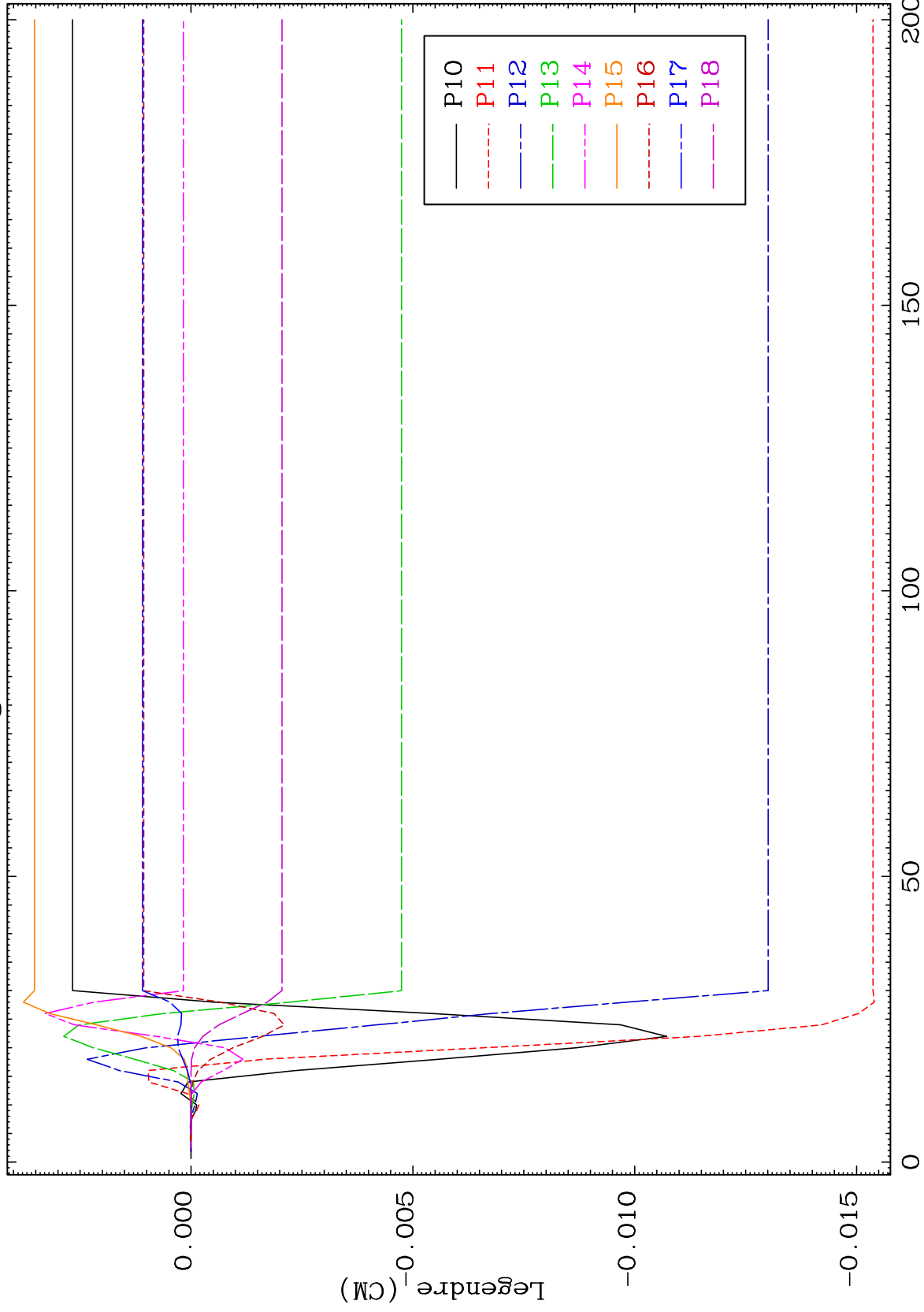




MAT 8004

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

80-Hg-189



89

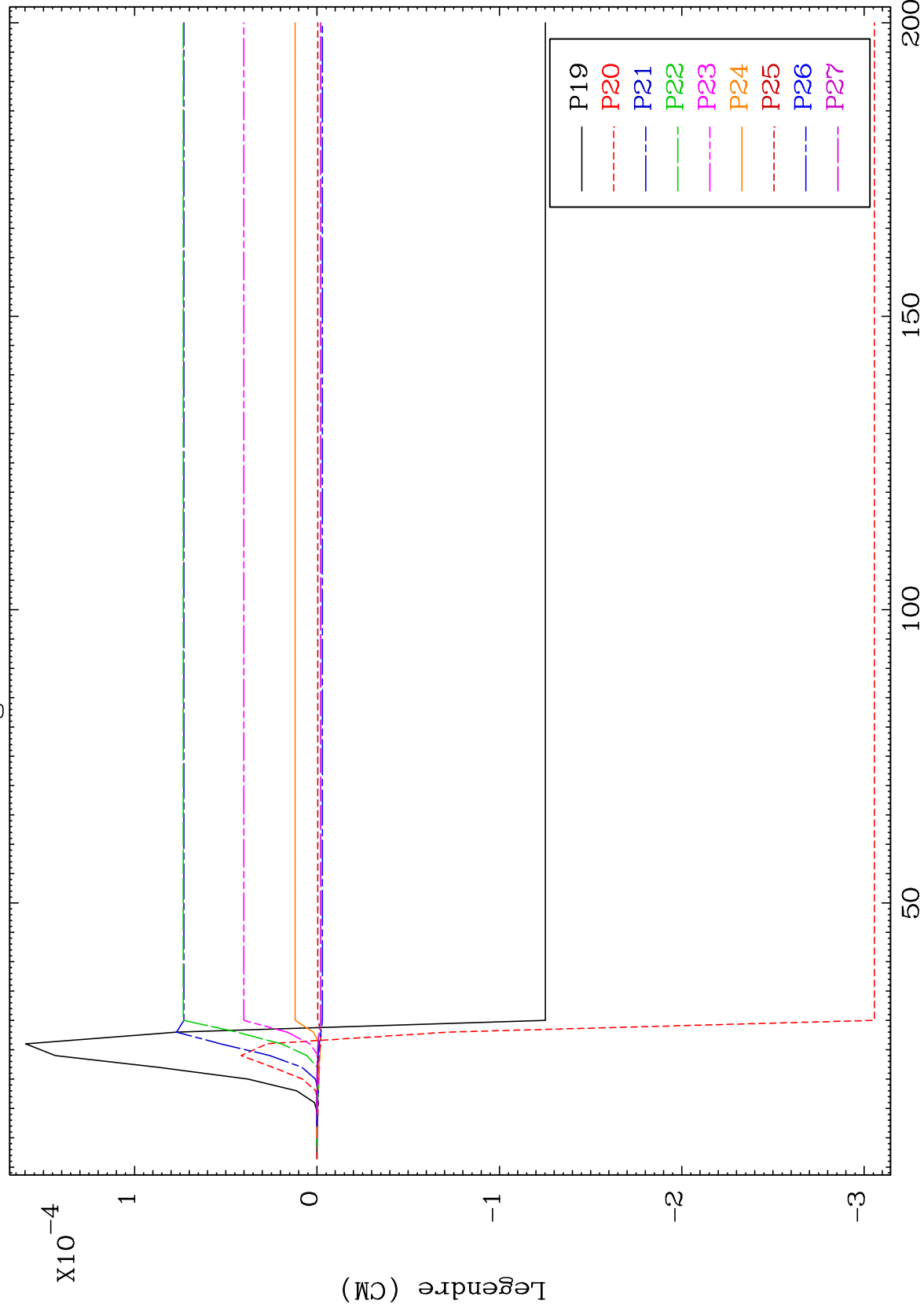
Incident Energy (MeV)

80-Hg-189

MAT 8004

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

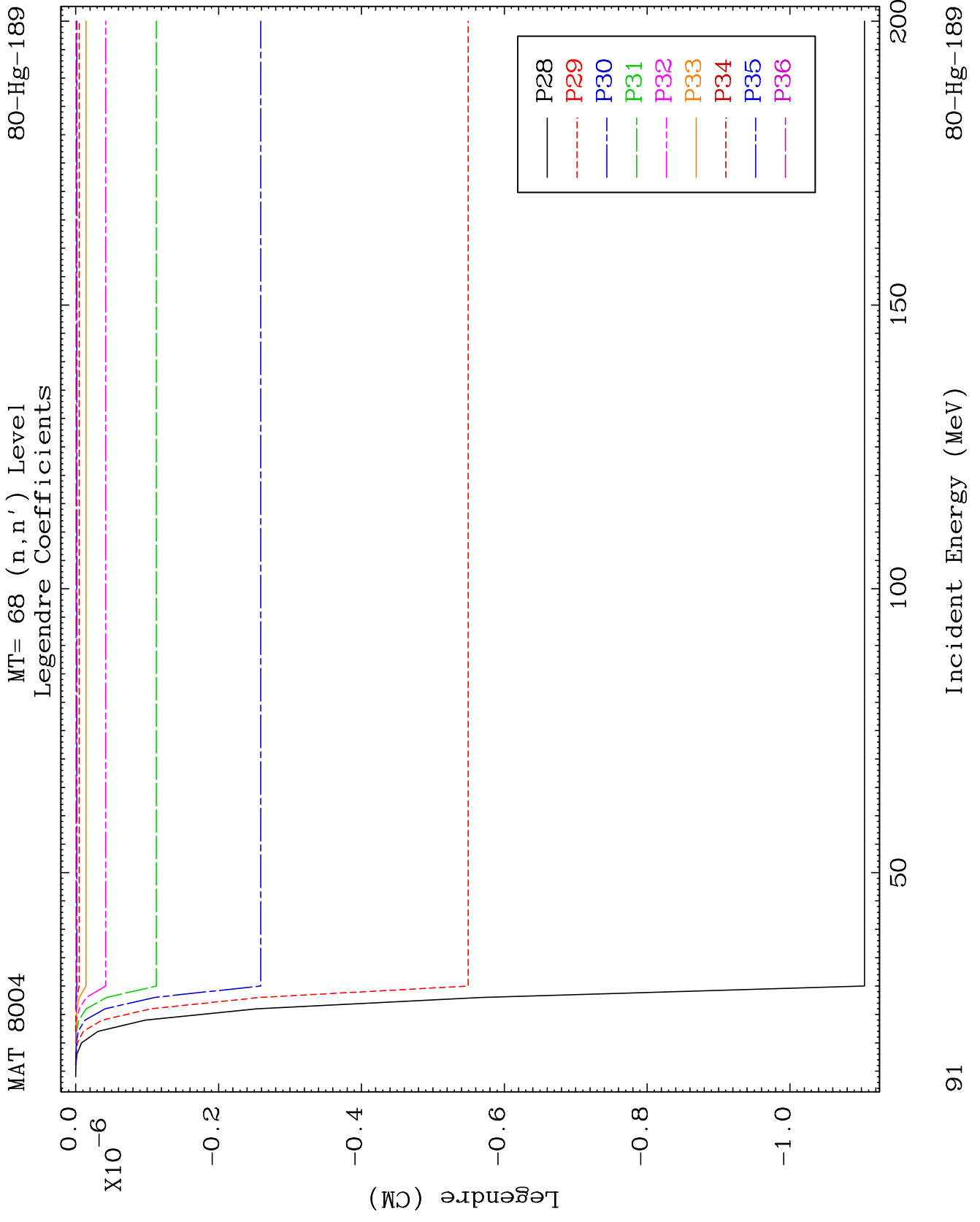
80-Hg-189



90

Incident Energy (MeV)

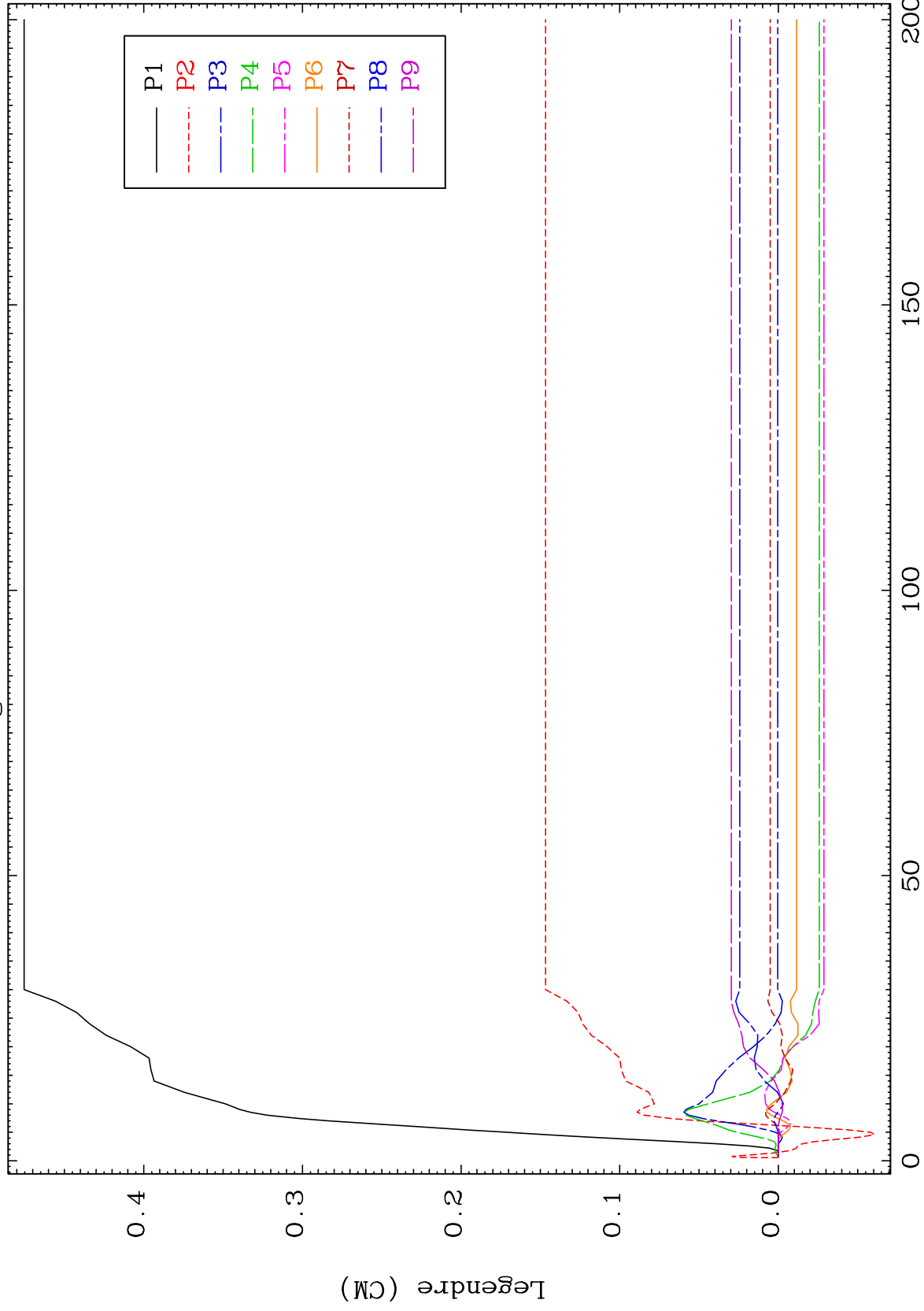
80-Hg-189



MAT 8004

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

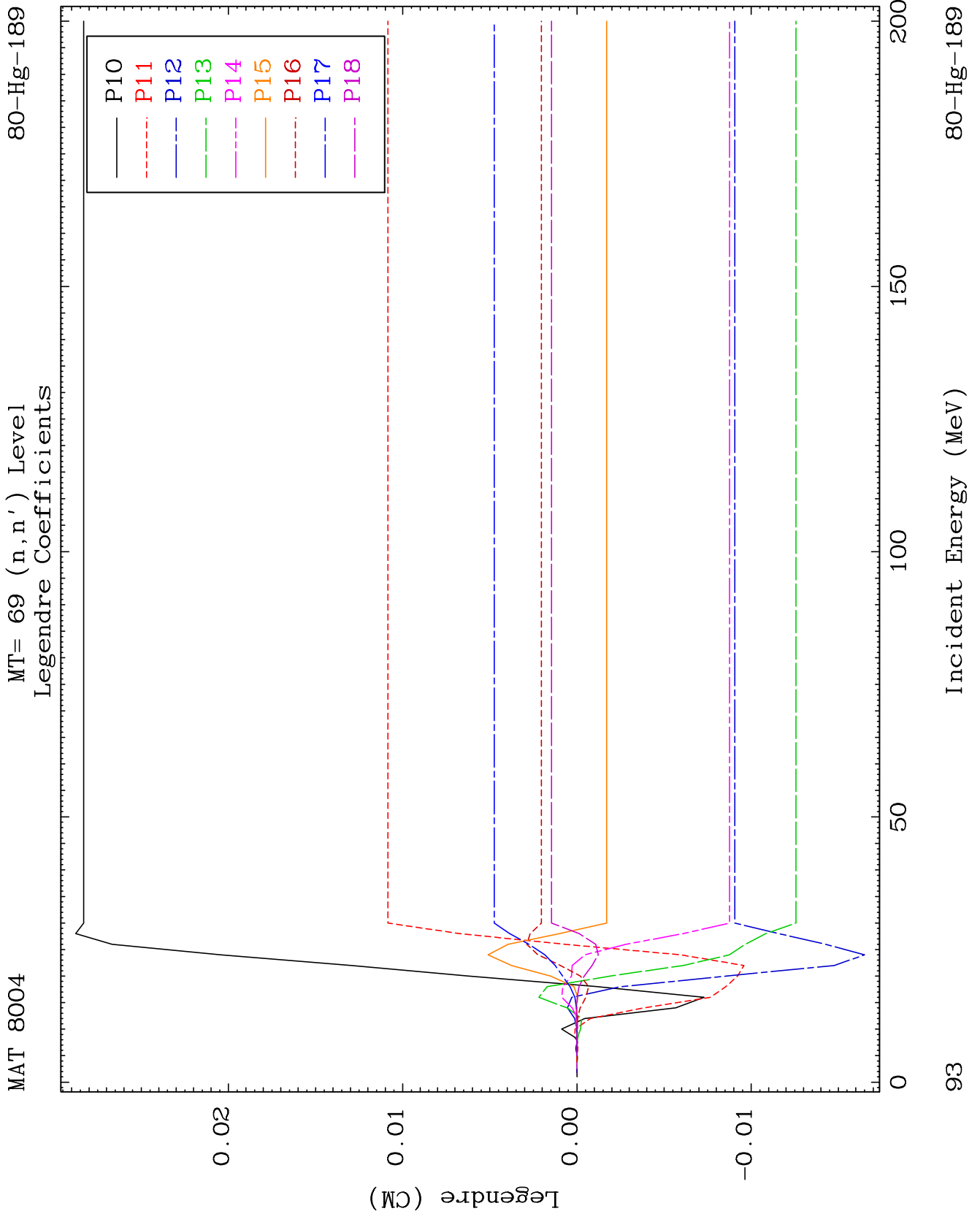
80-Hg-189

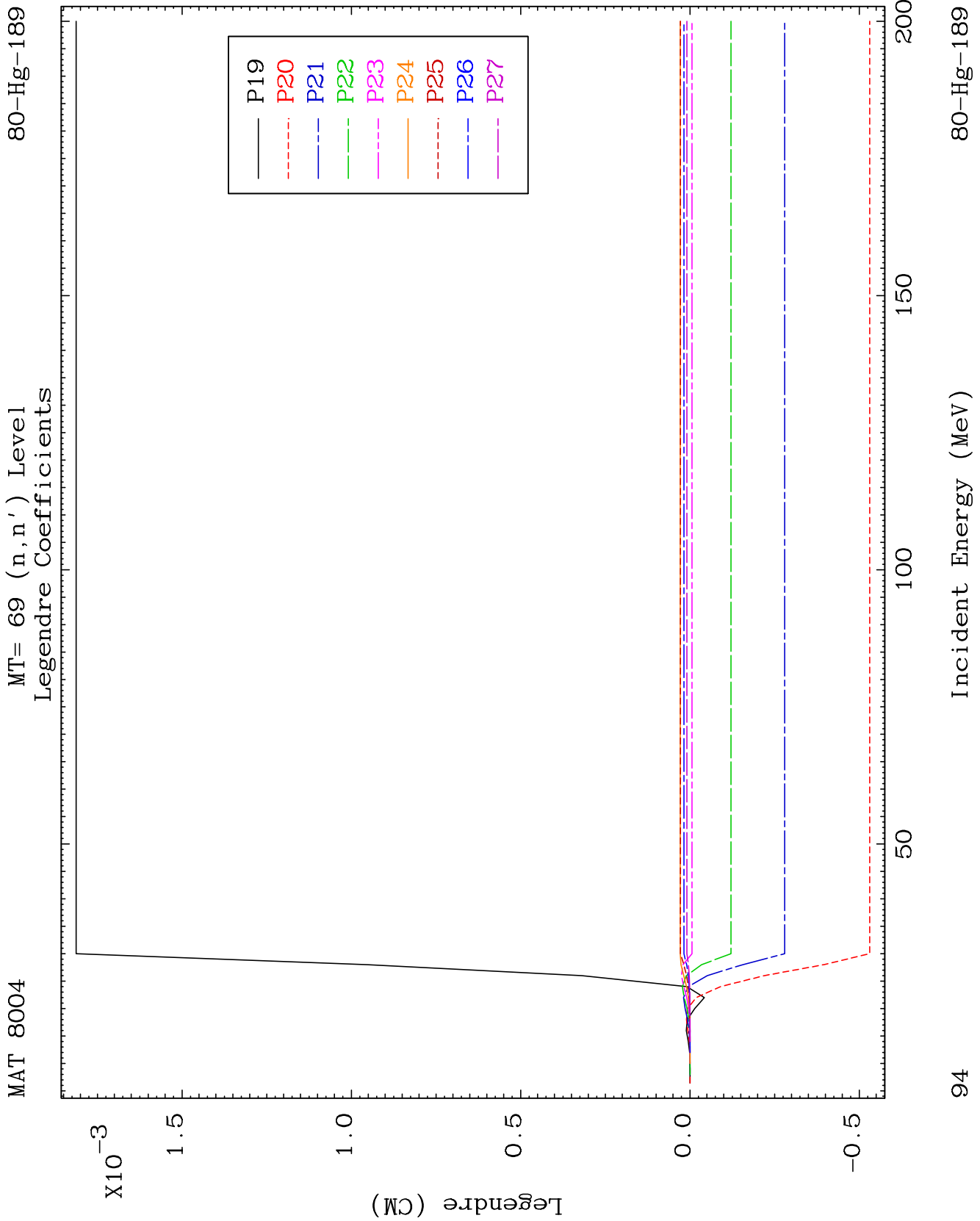


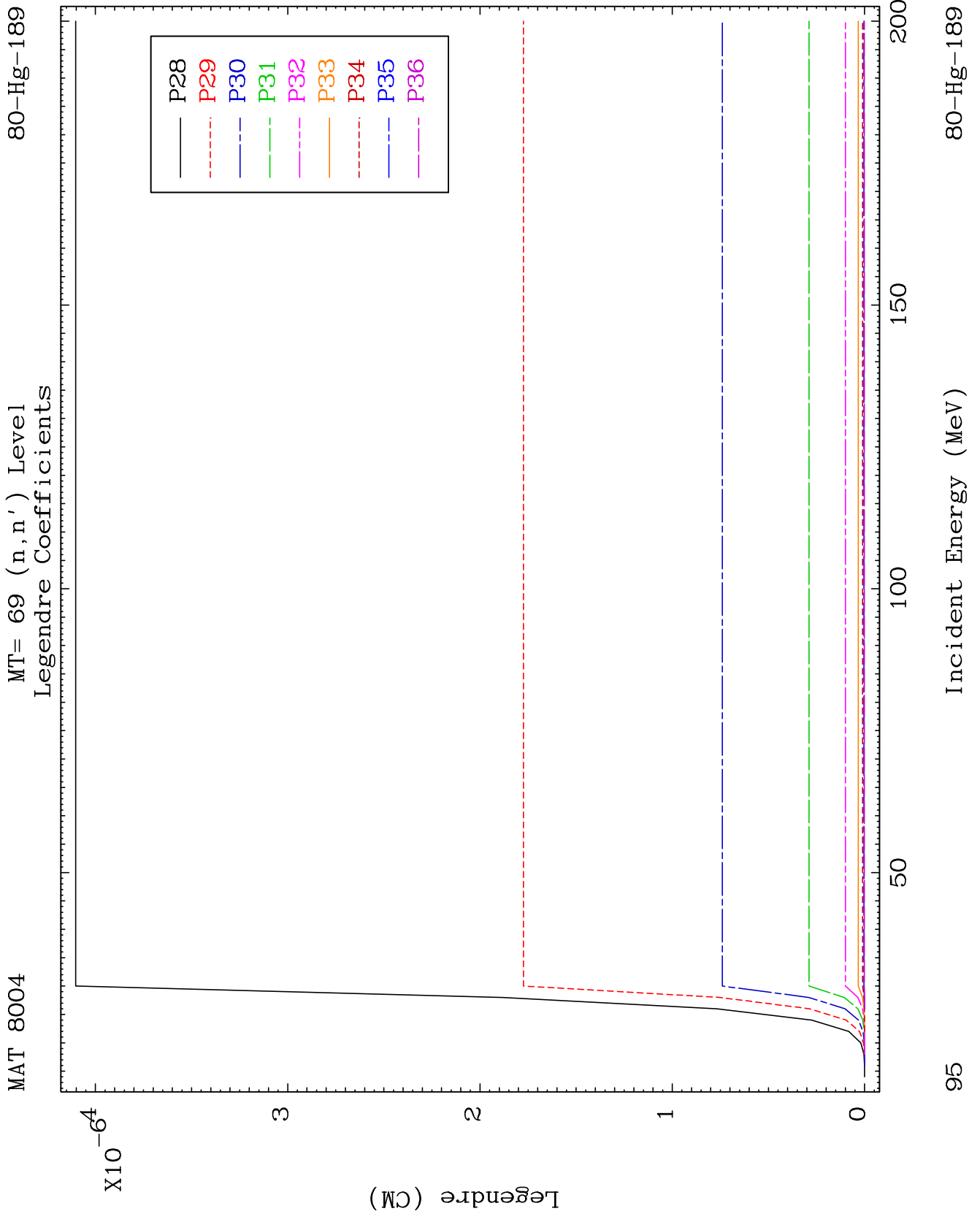
92

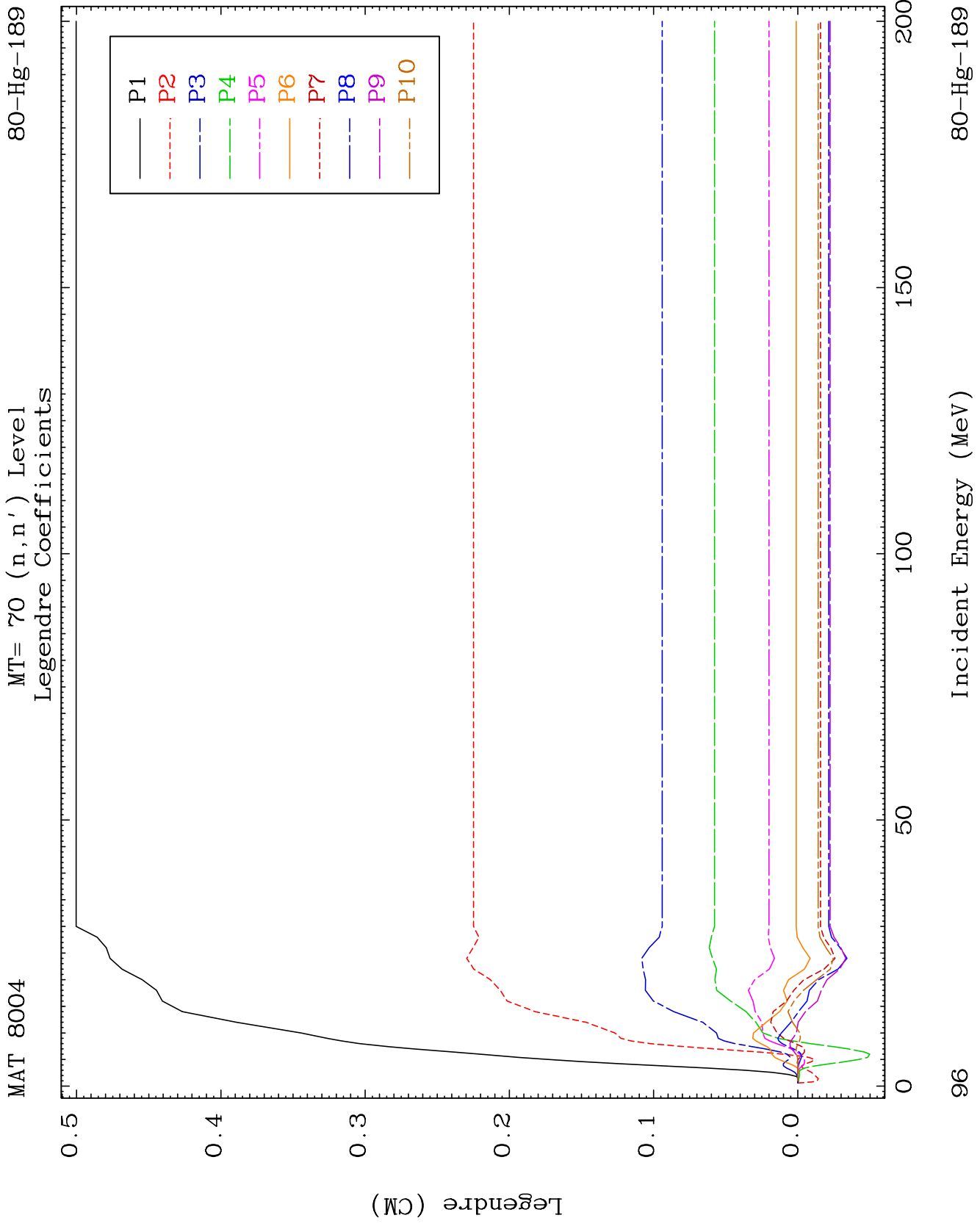
Incident Energy (MeV)

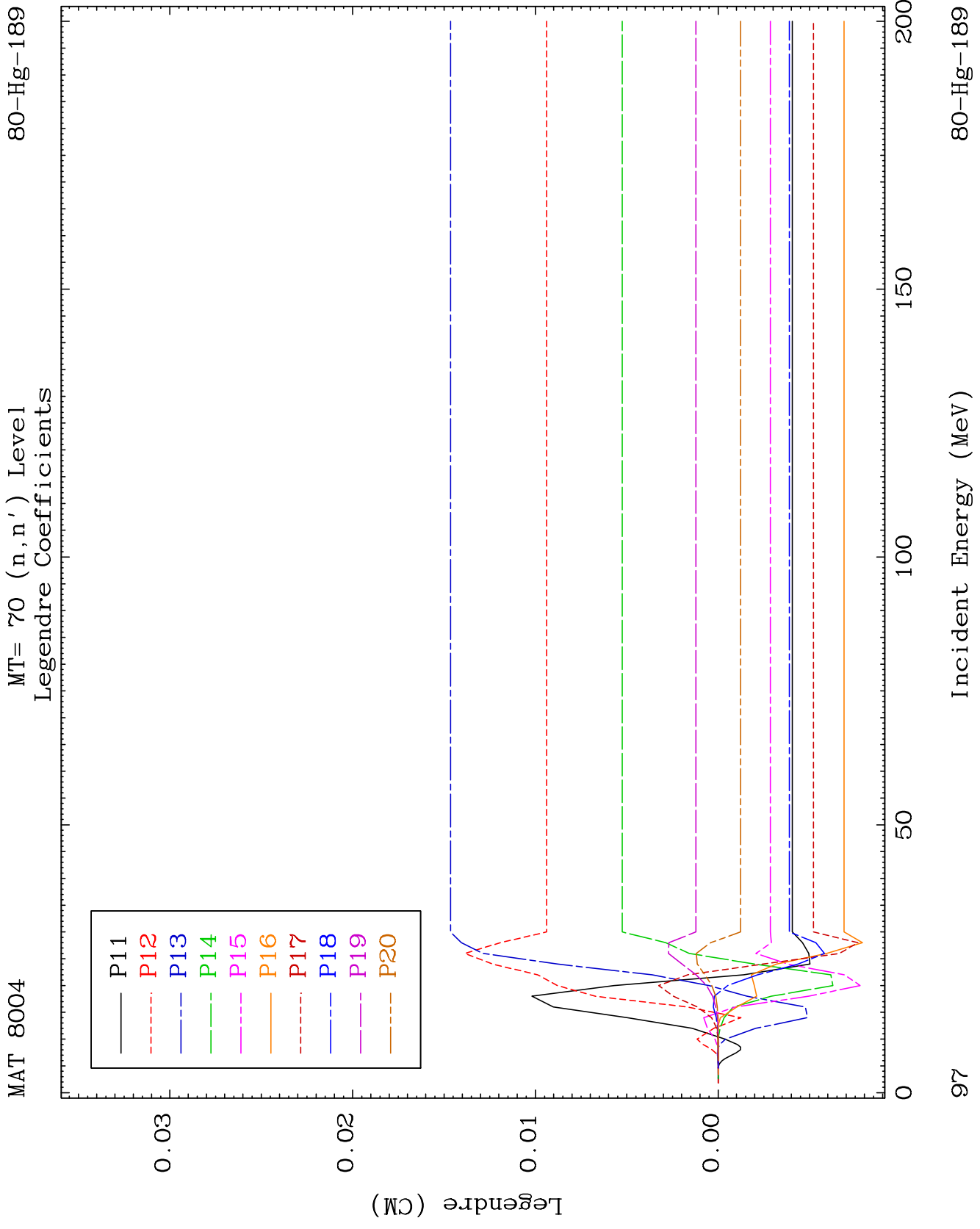
80-Hg-189







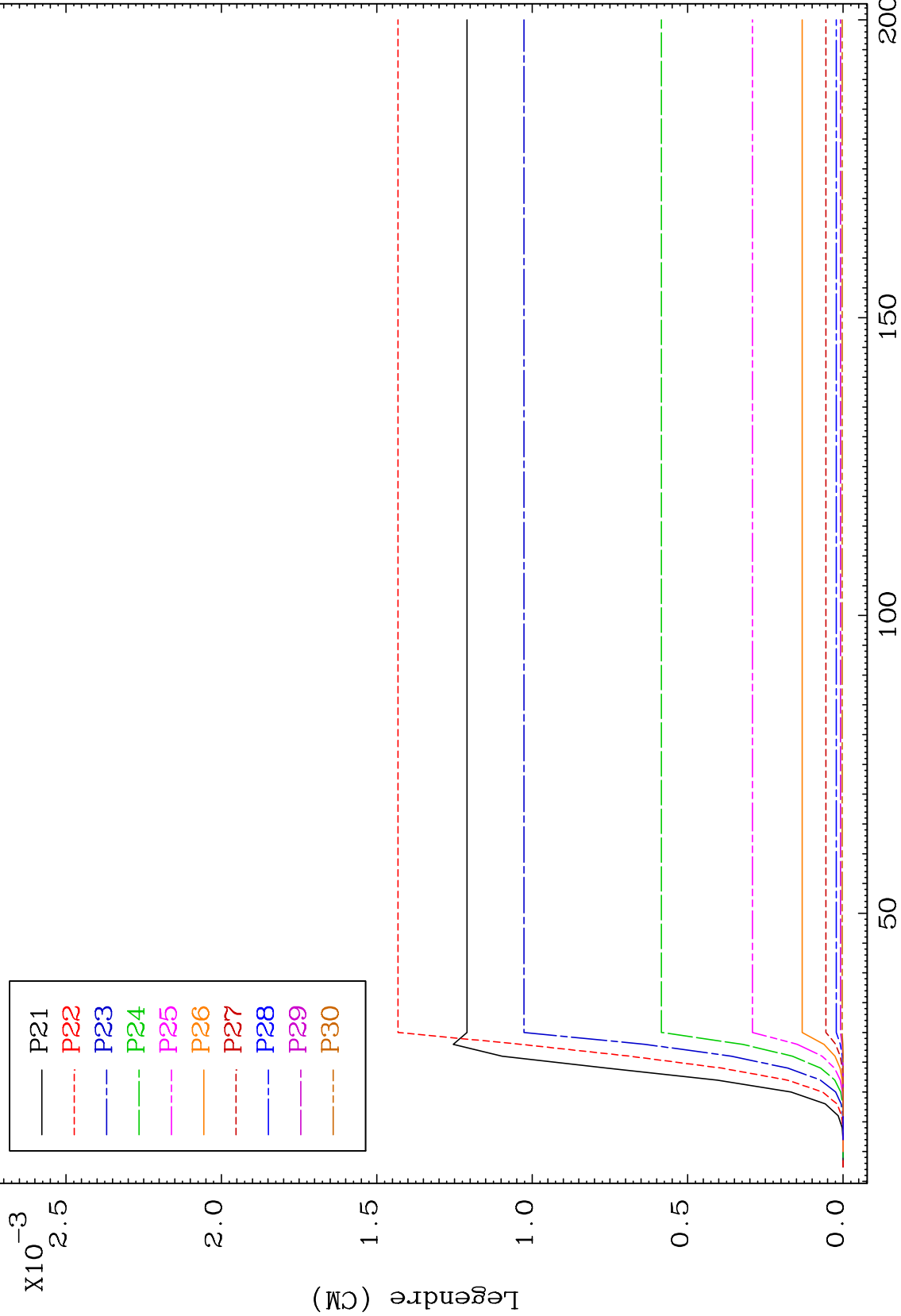
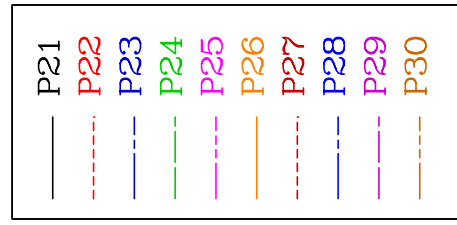




MAT 8004

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

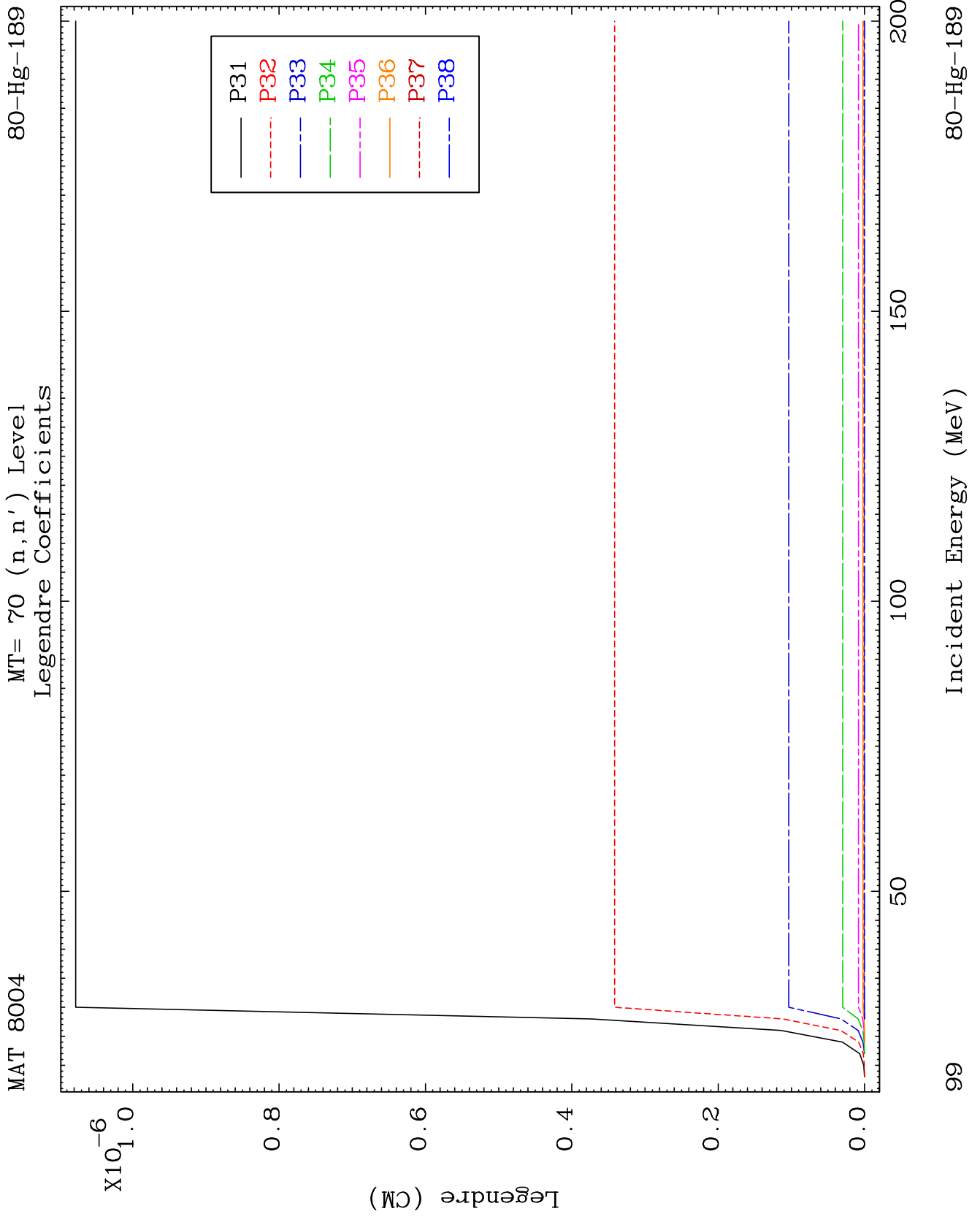
80-Hg-189

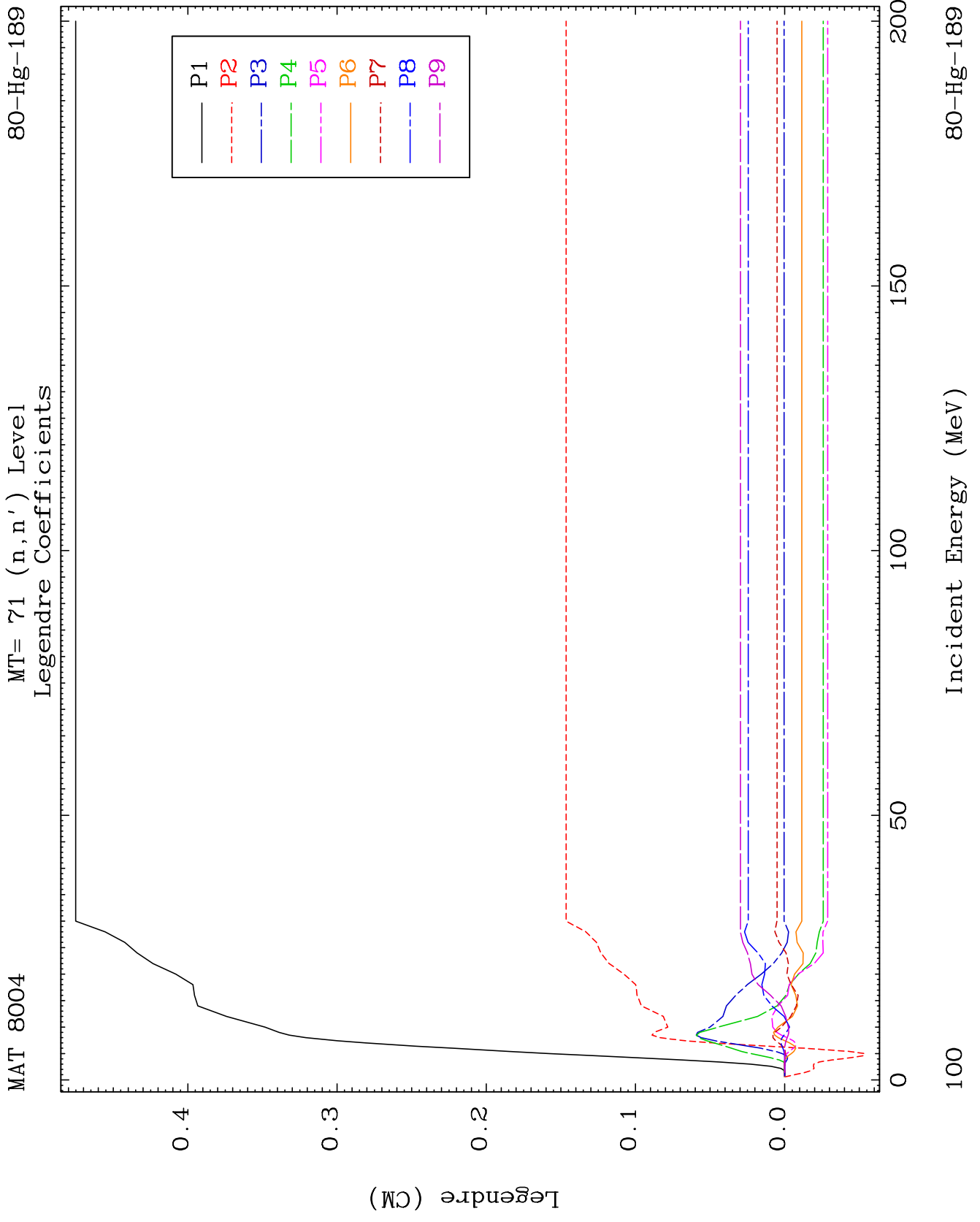


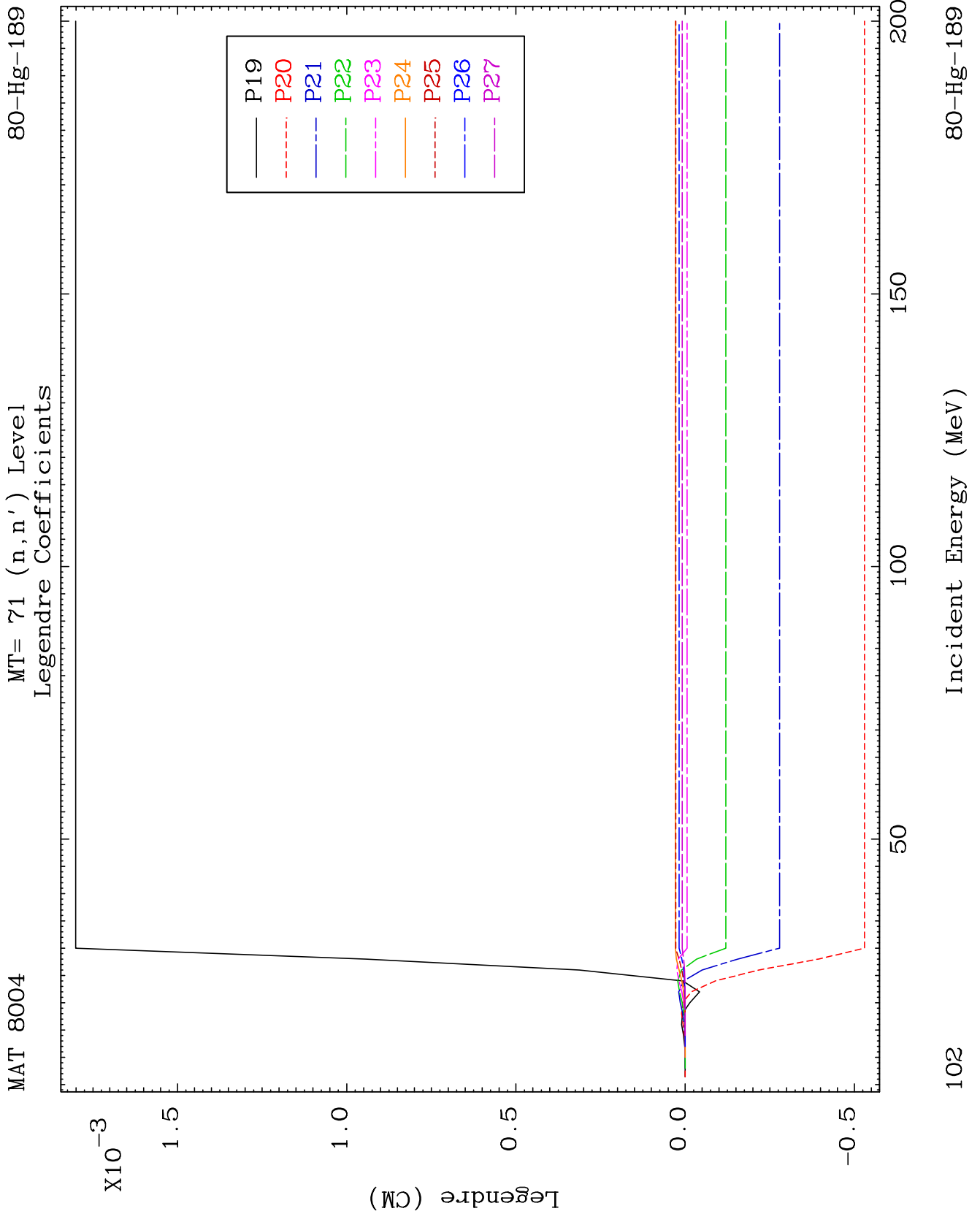
98

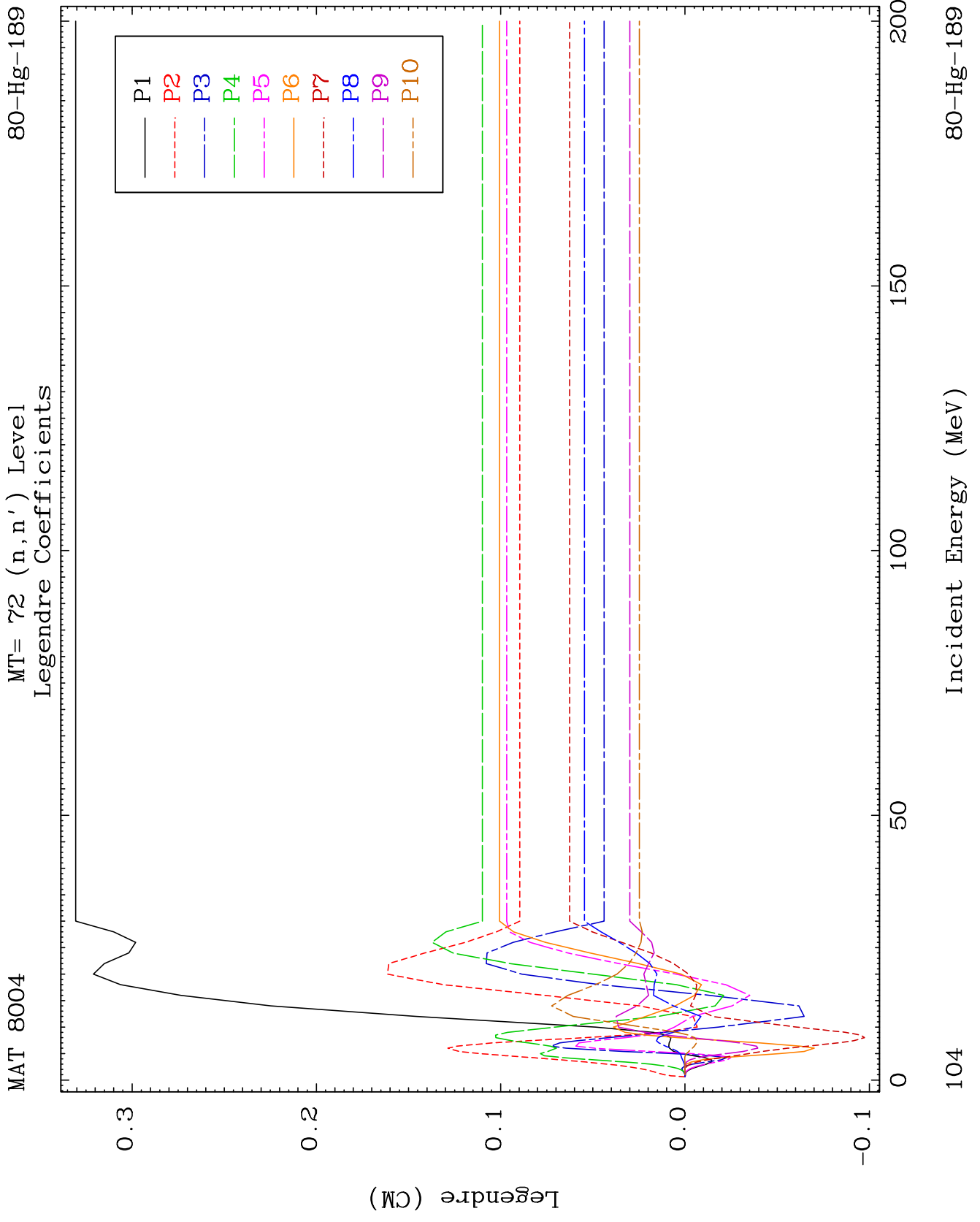
Incident Energy (MeV)

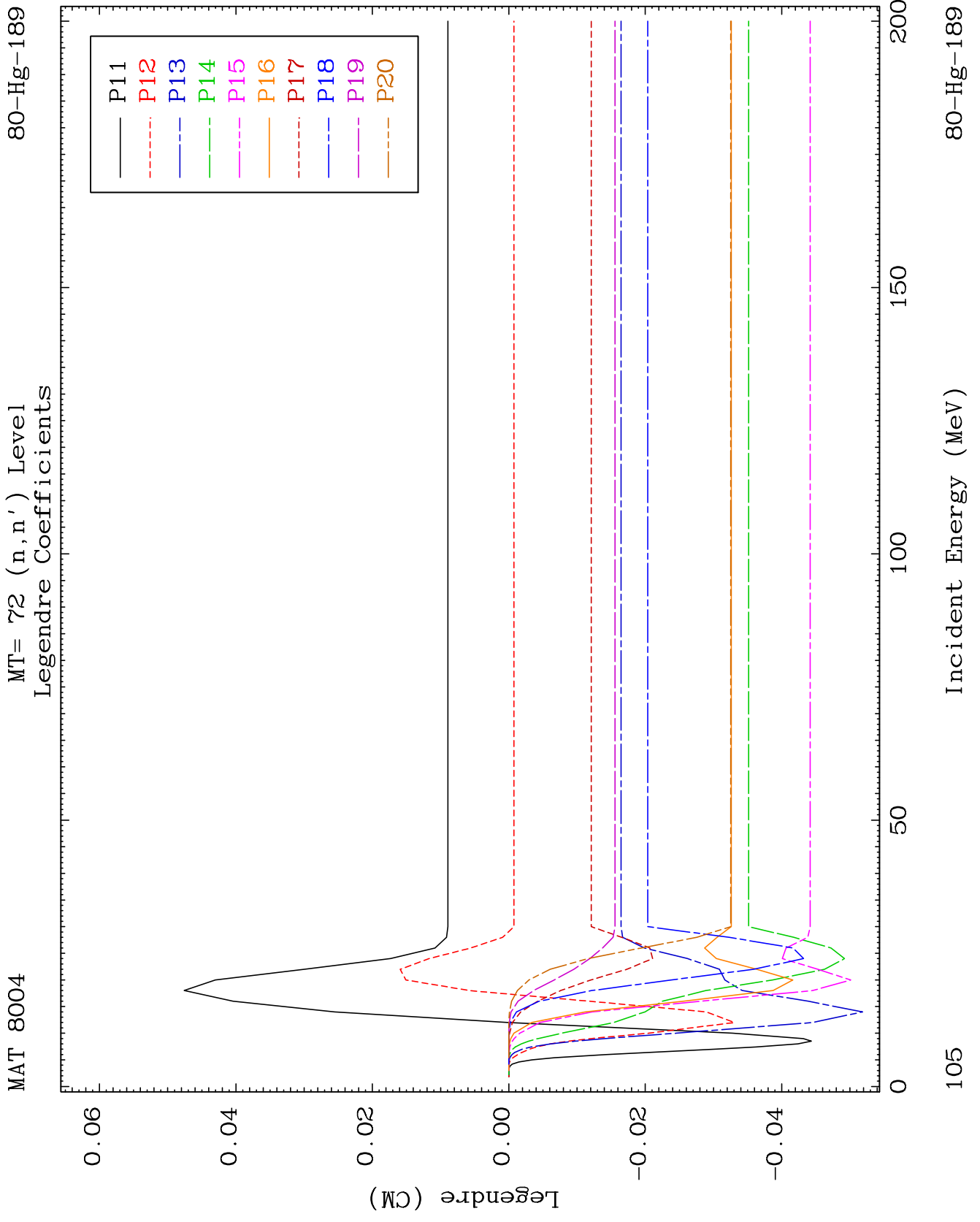
80-Hg-189

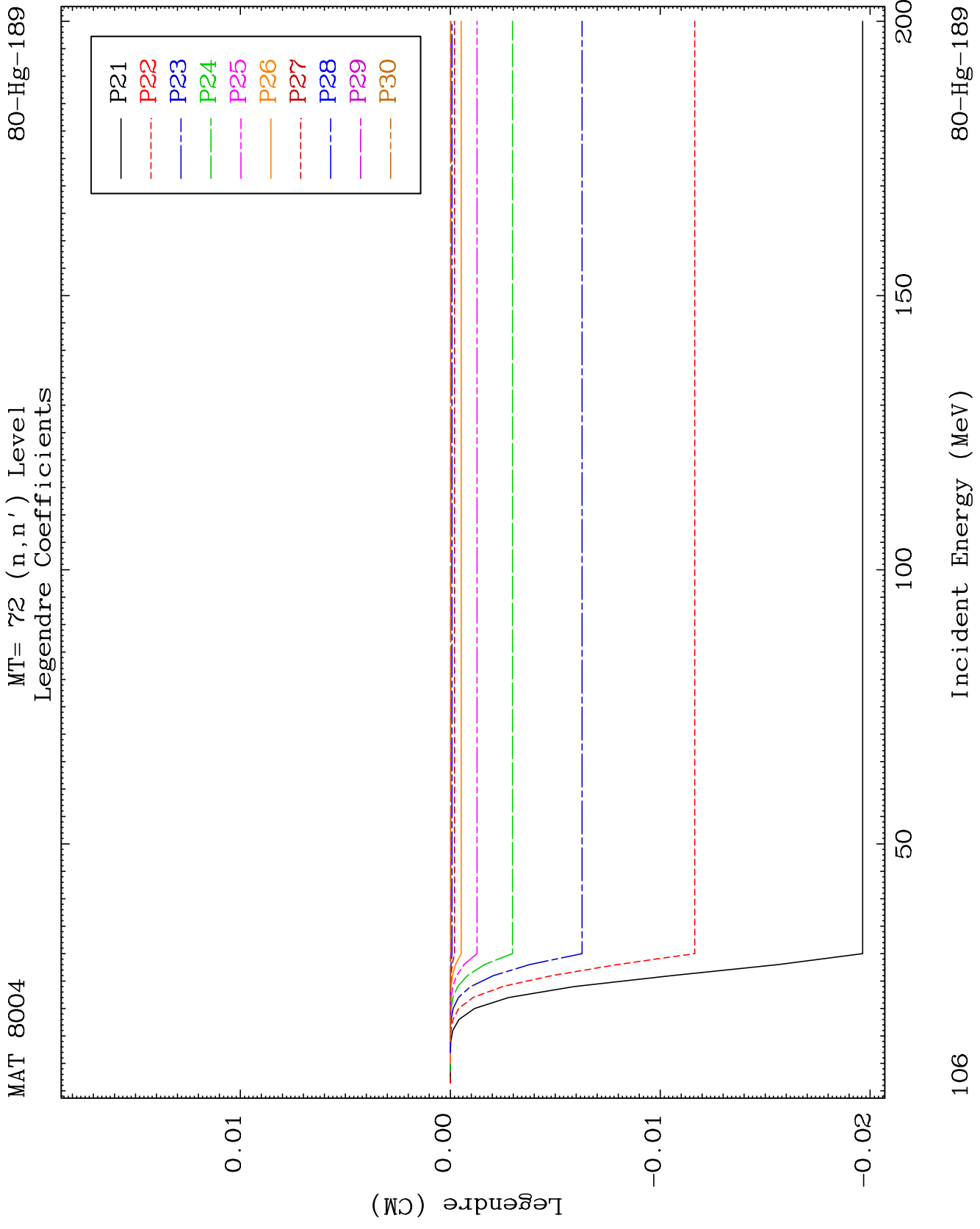


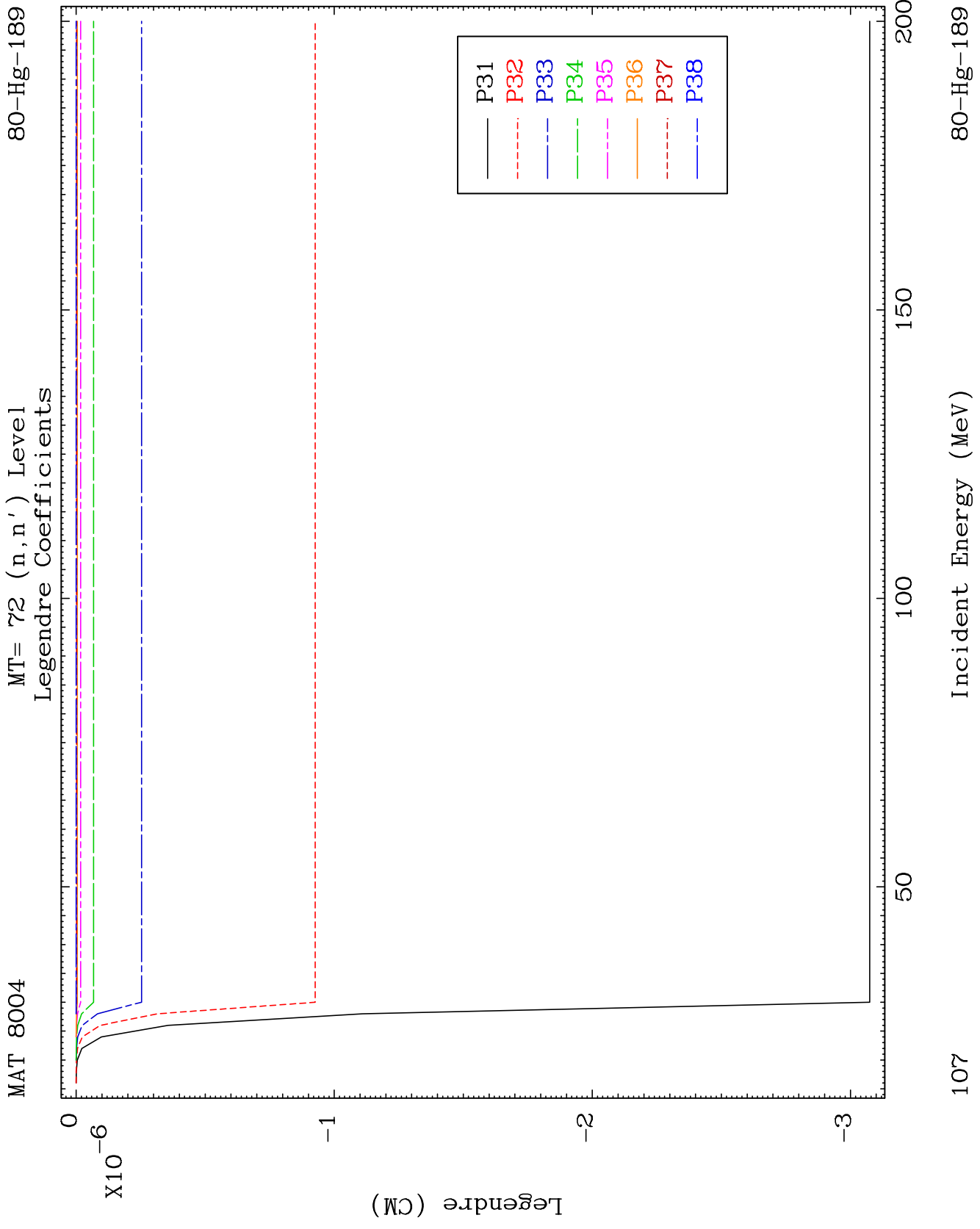


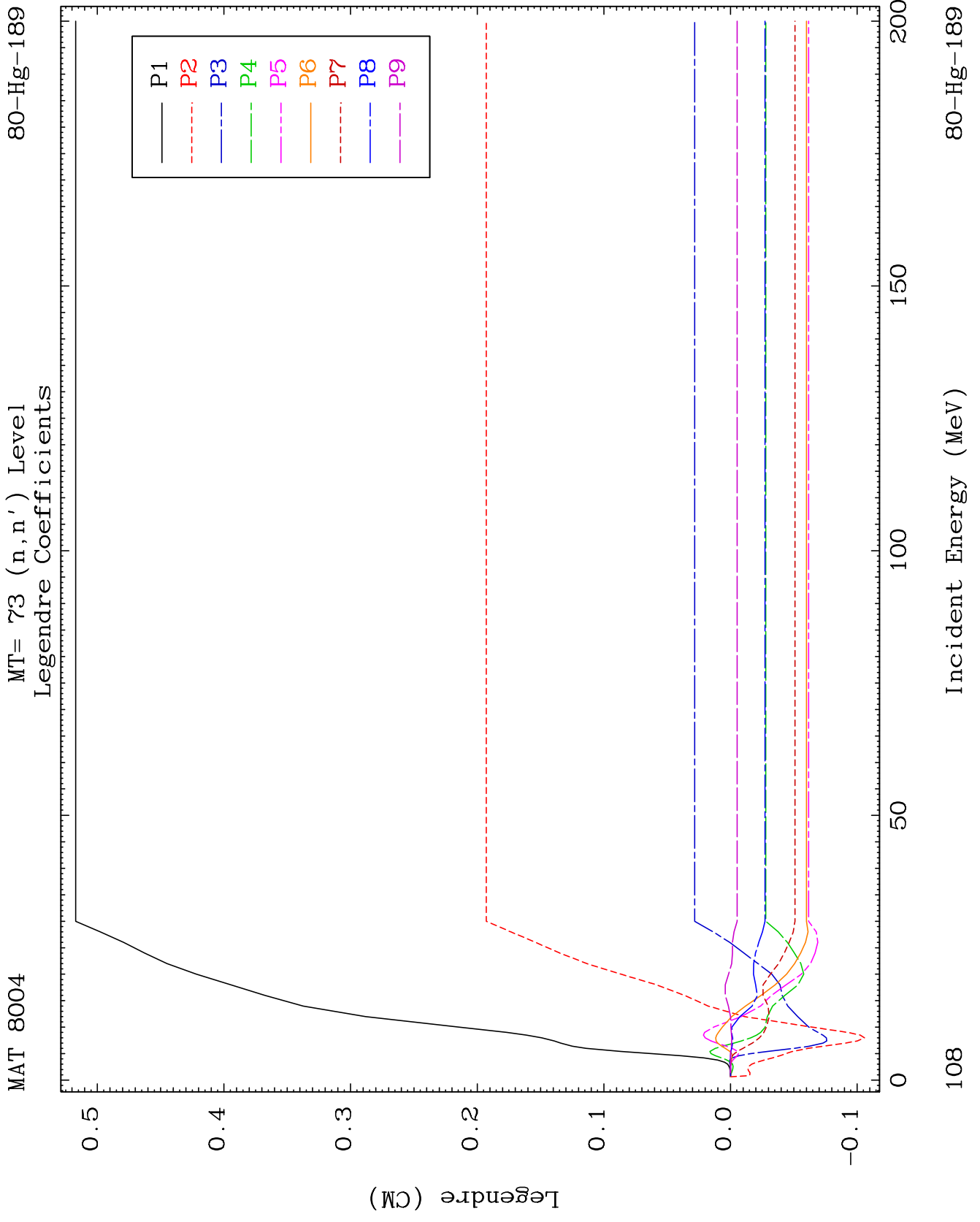


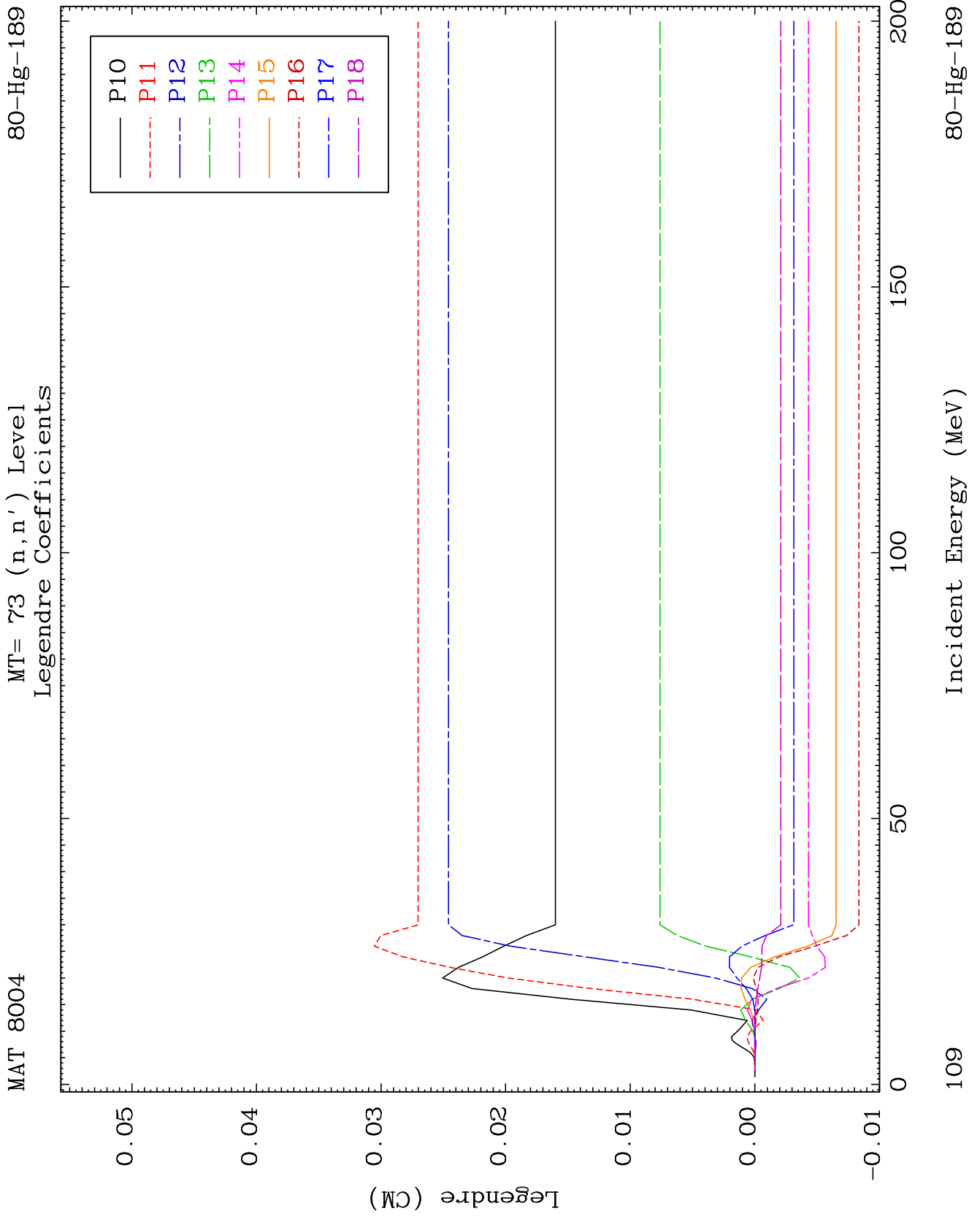








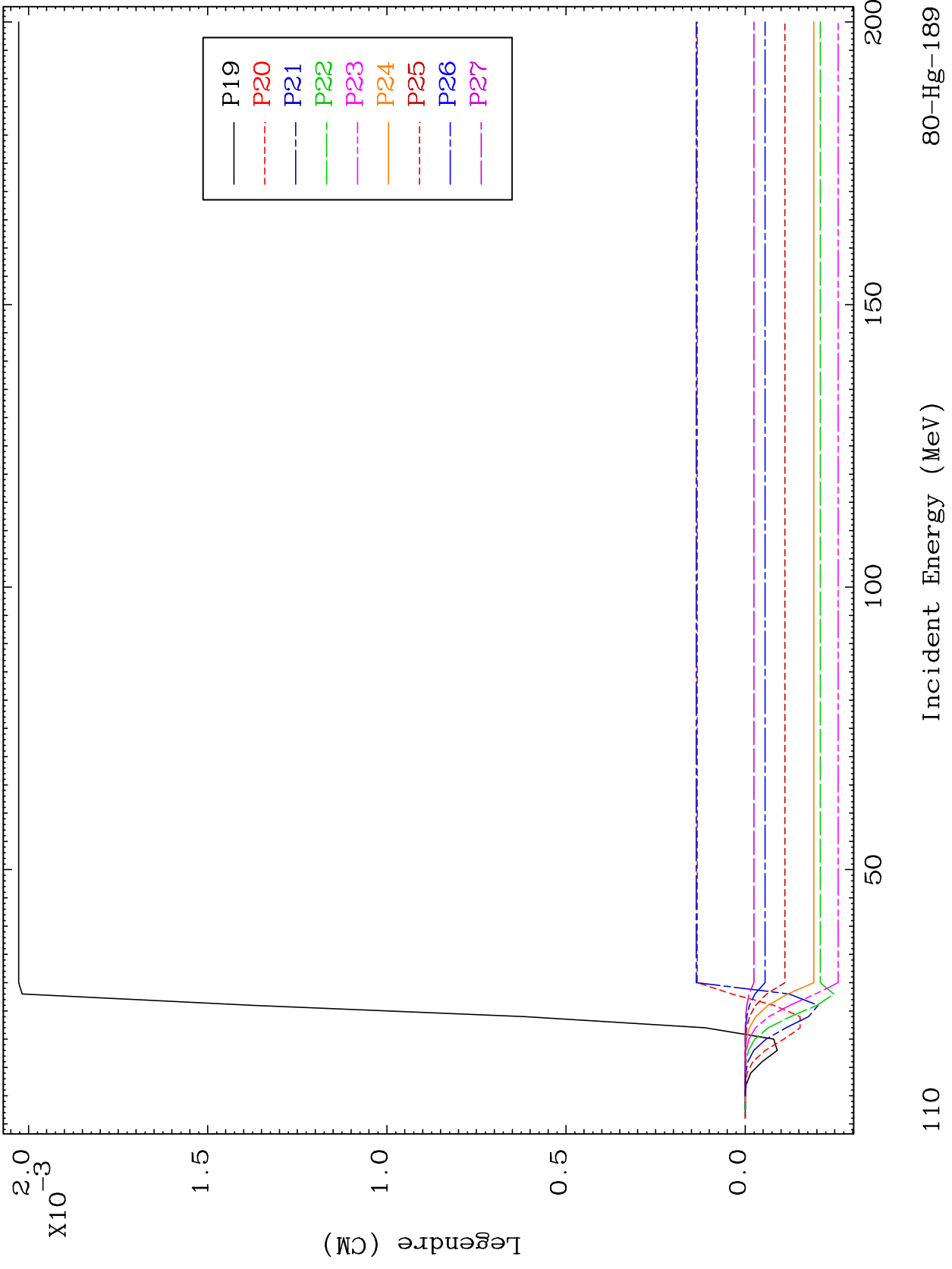




MAT 8004

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

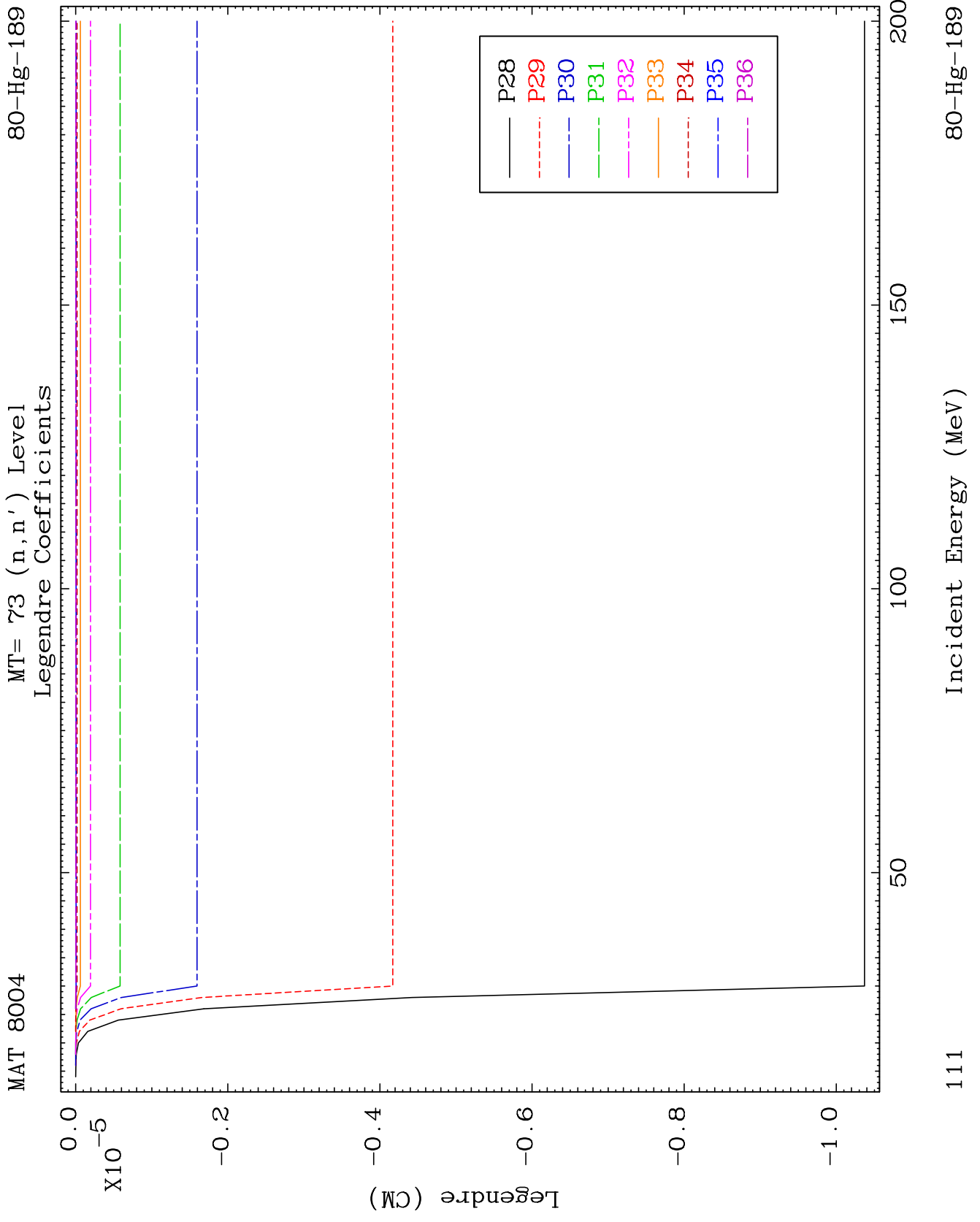
80-Hg-189



110

Incident Energy (MeV)

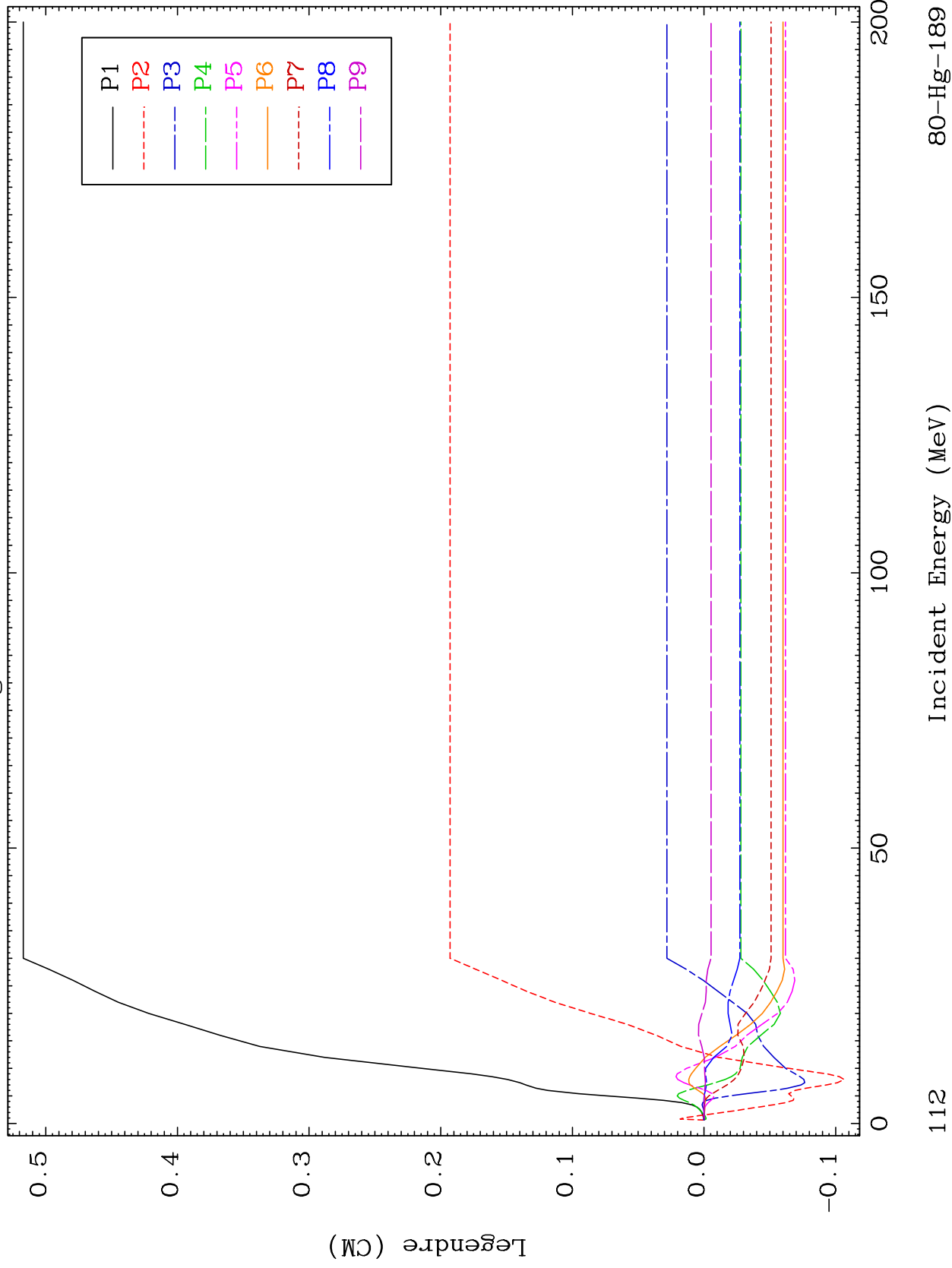
80-Hg-189



MAT 8004

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

80-Hg-189



80-Hg-189

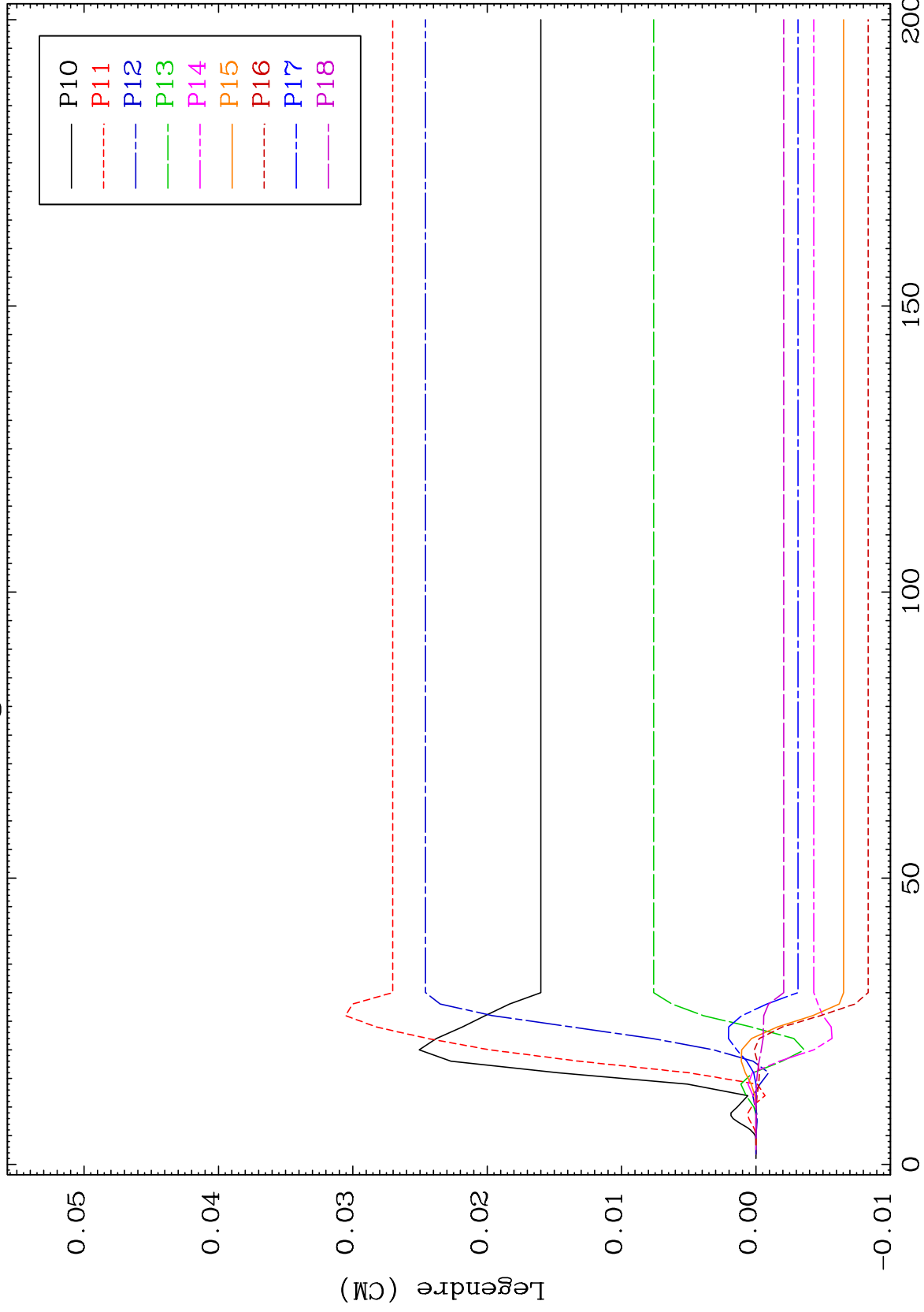
Incident Energy (MeV)

112

MAT 8004

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

80-Hg-189



113

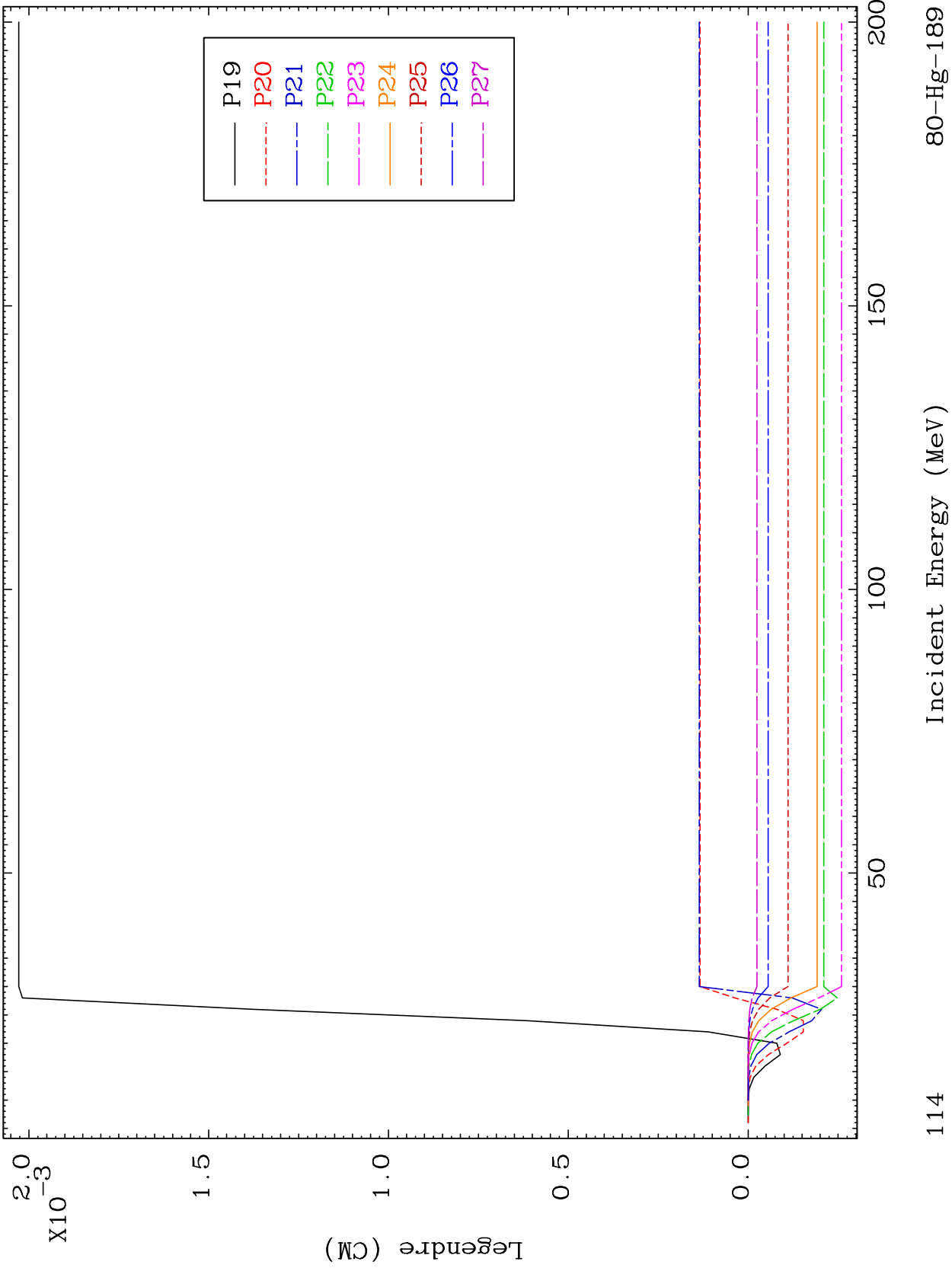
Incident Energy (MeV)

80-Hg-189

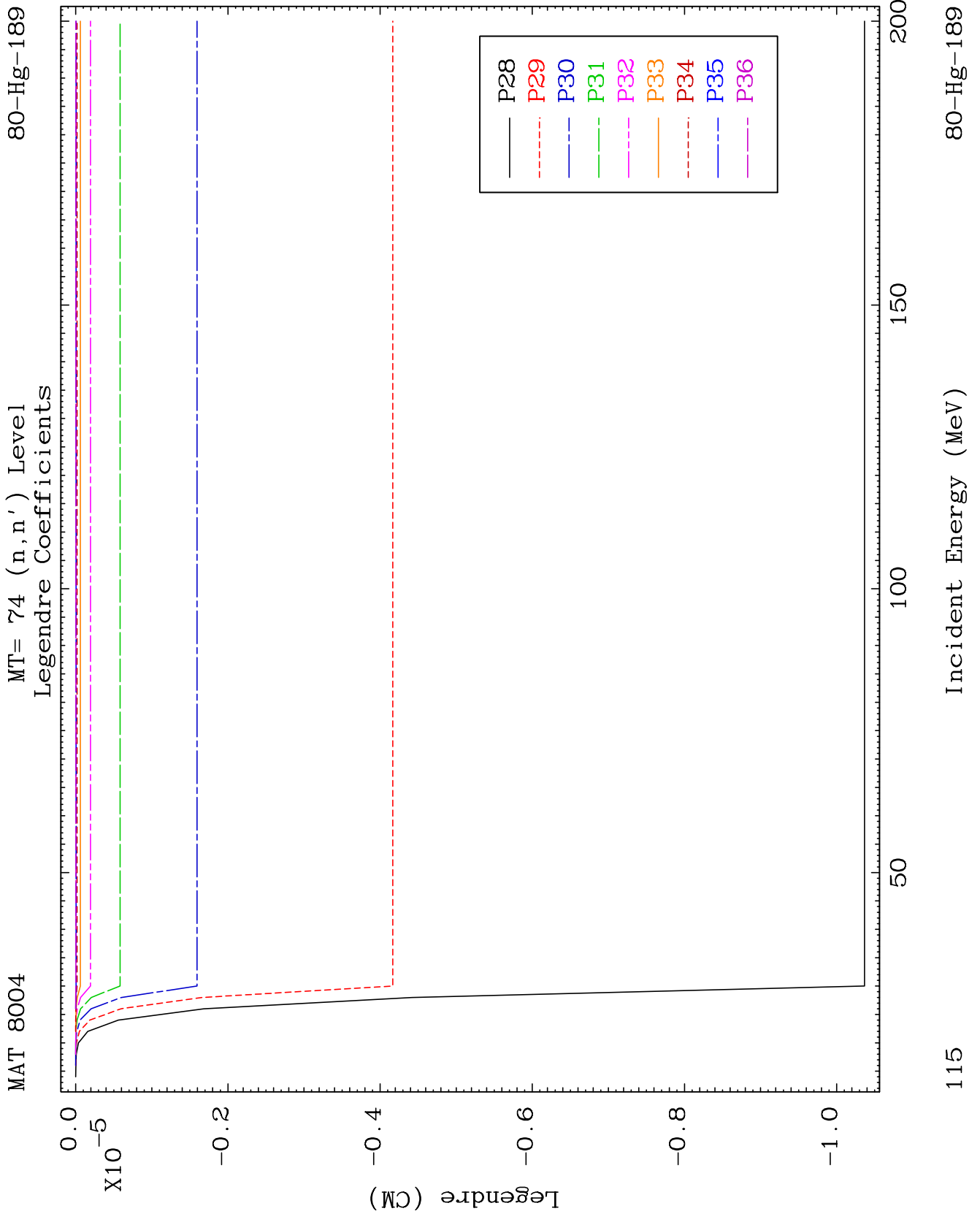
MAT 8004

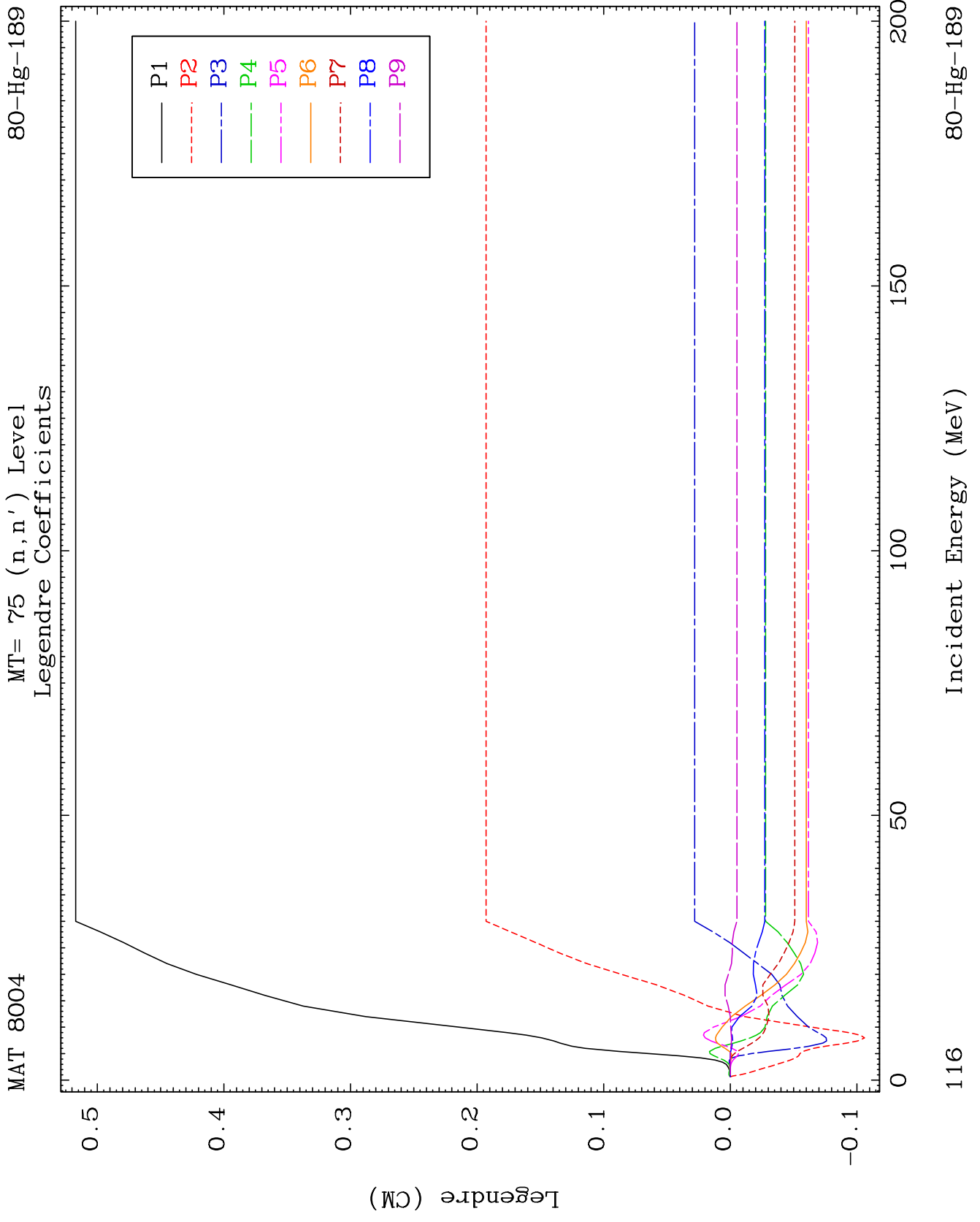
MT= 74 (n,n') Level
Legendre Coefficients

80-Hg-189



114

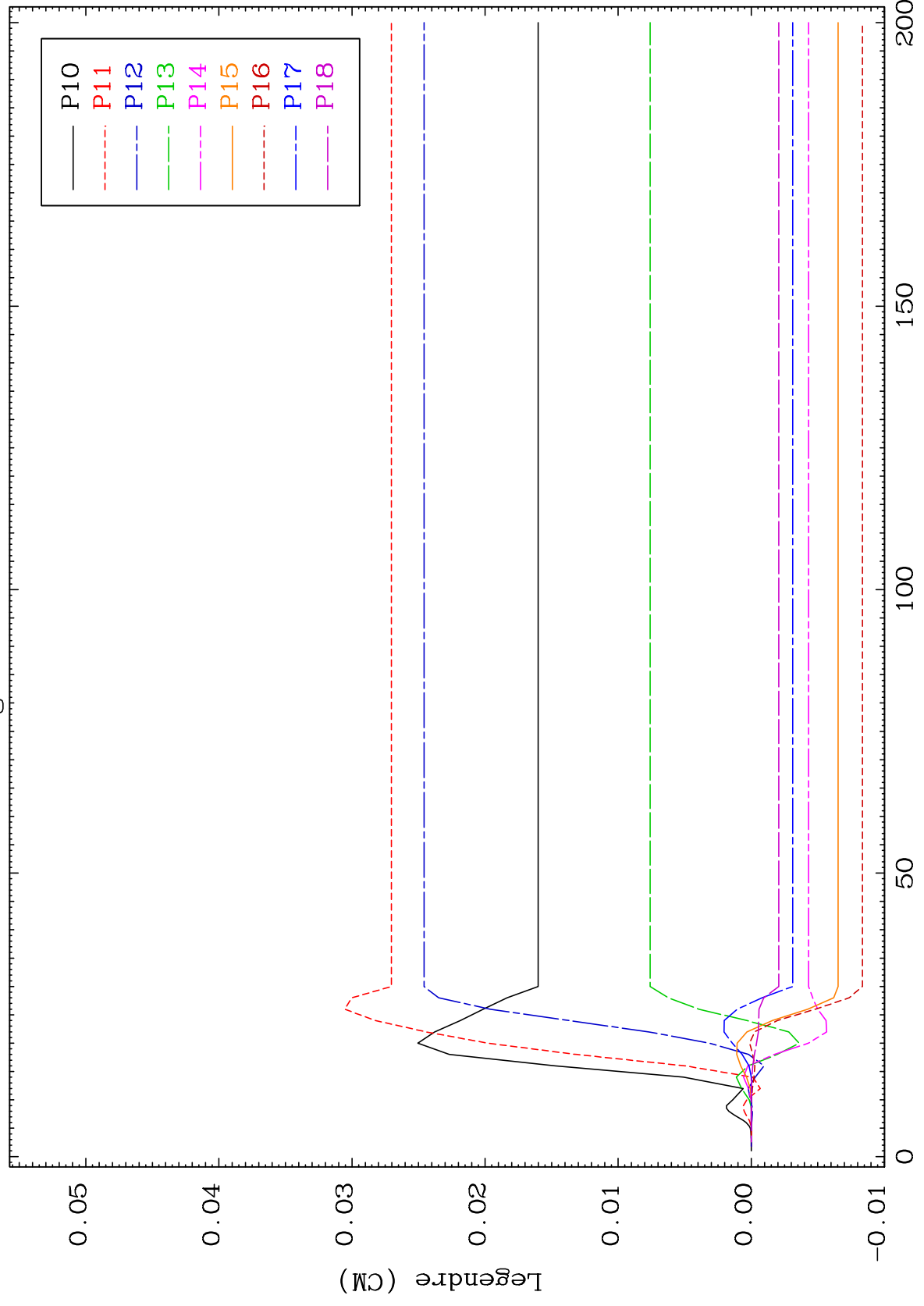




MAT 8004

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

80-Hg-189



117

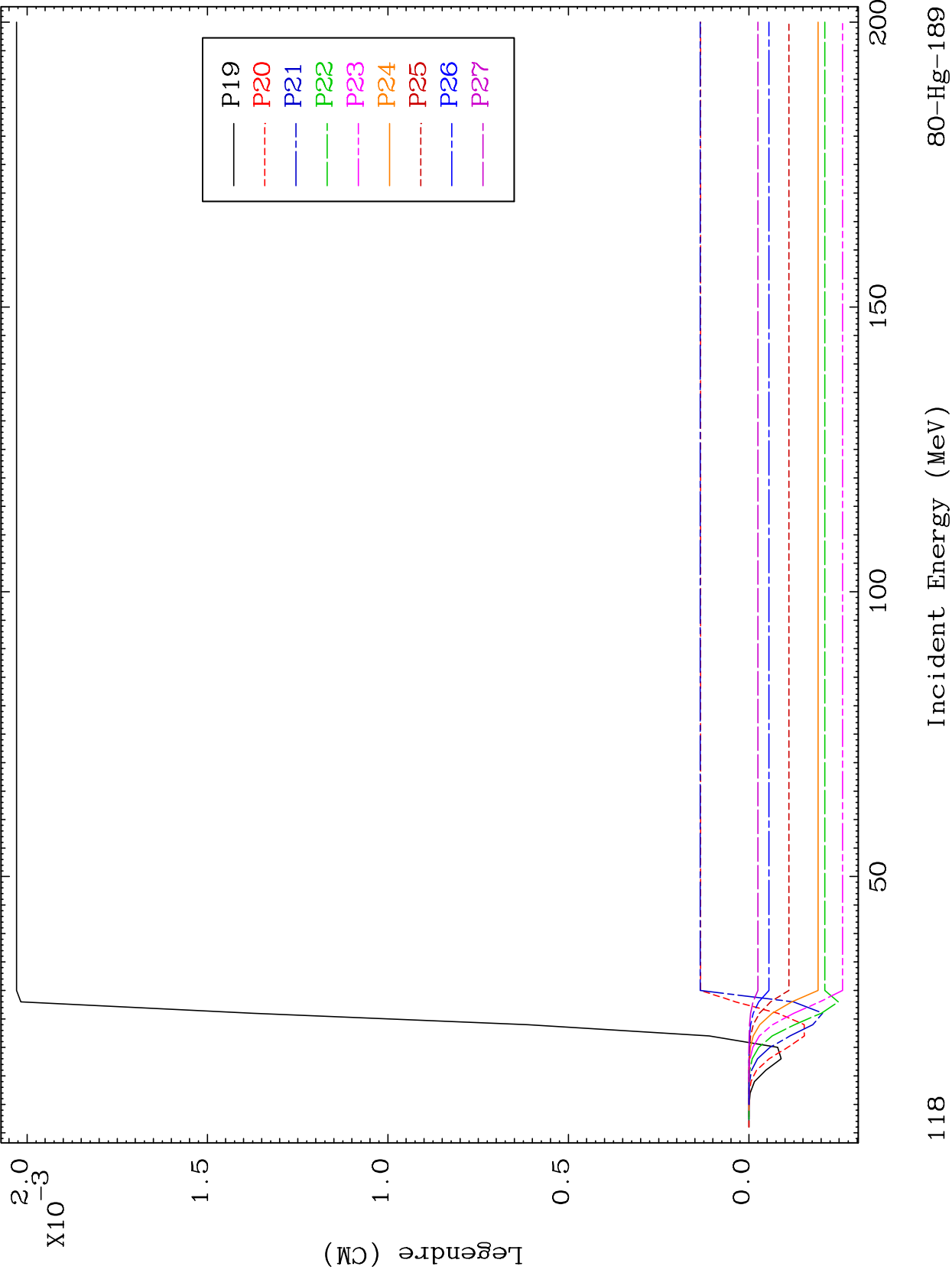
Incident Energy (MeV)

80-Hg-189

MAT 8004

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

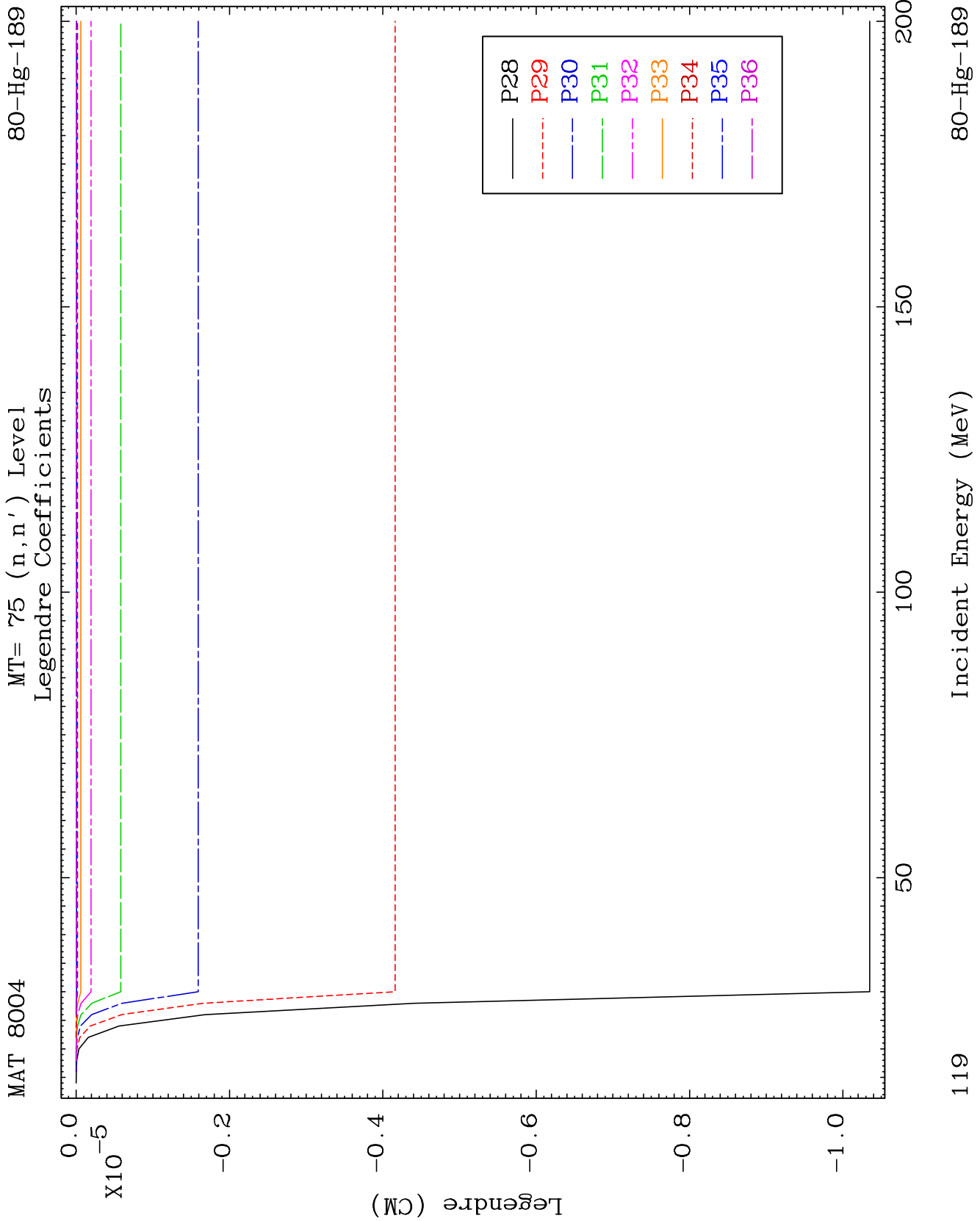
80-Hg-189

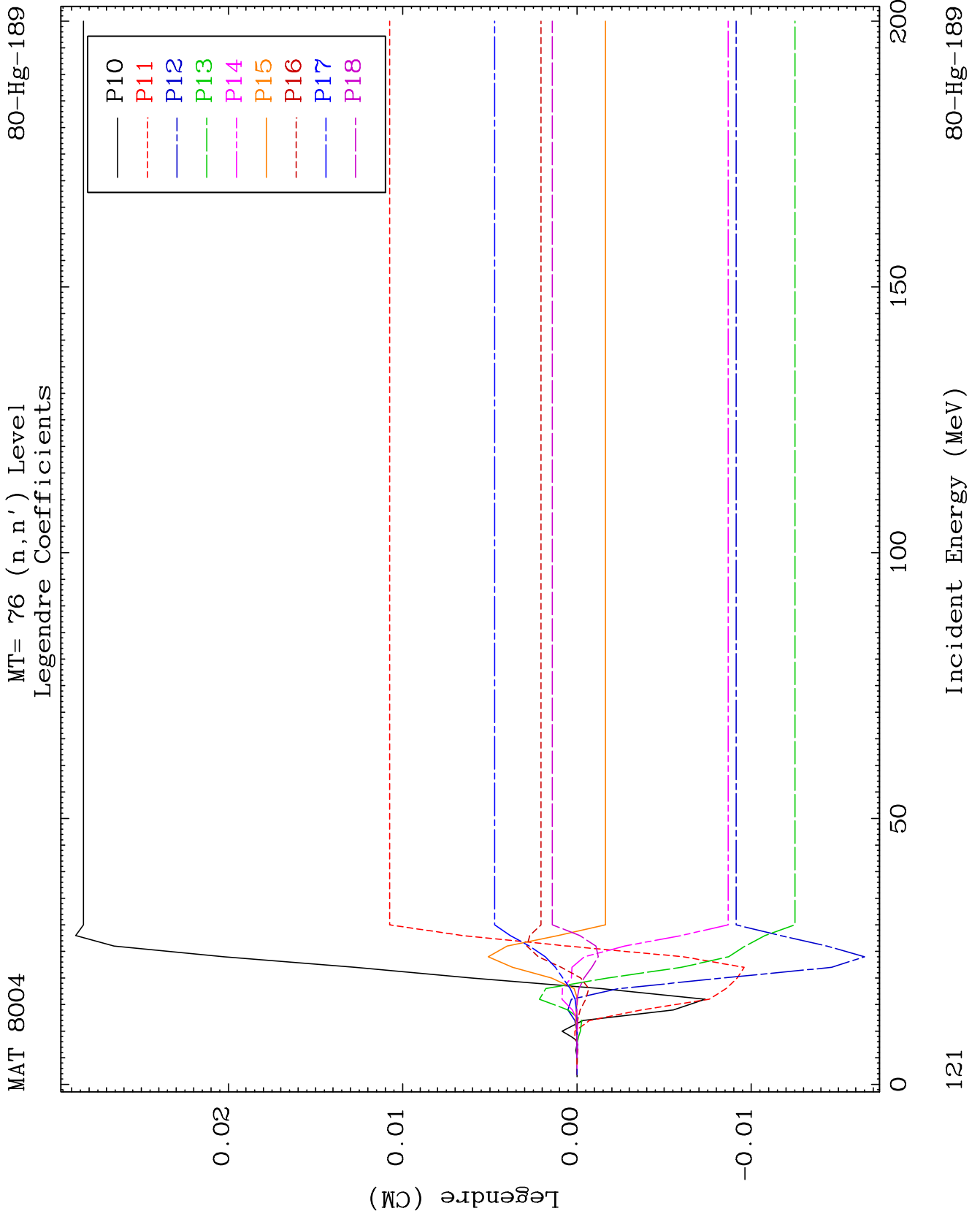


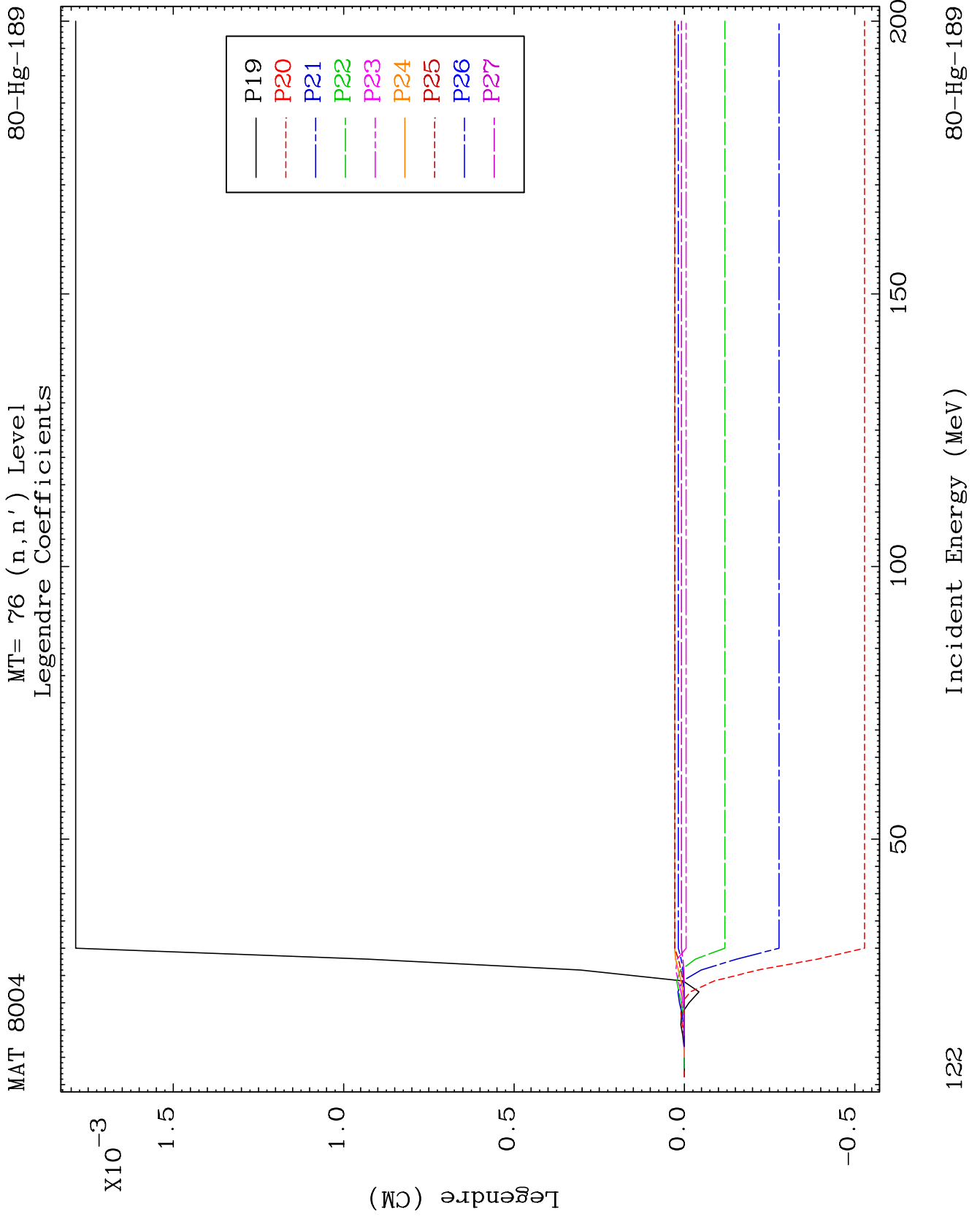
118

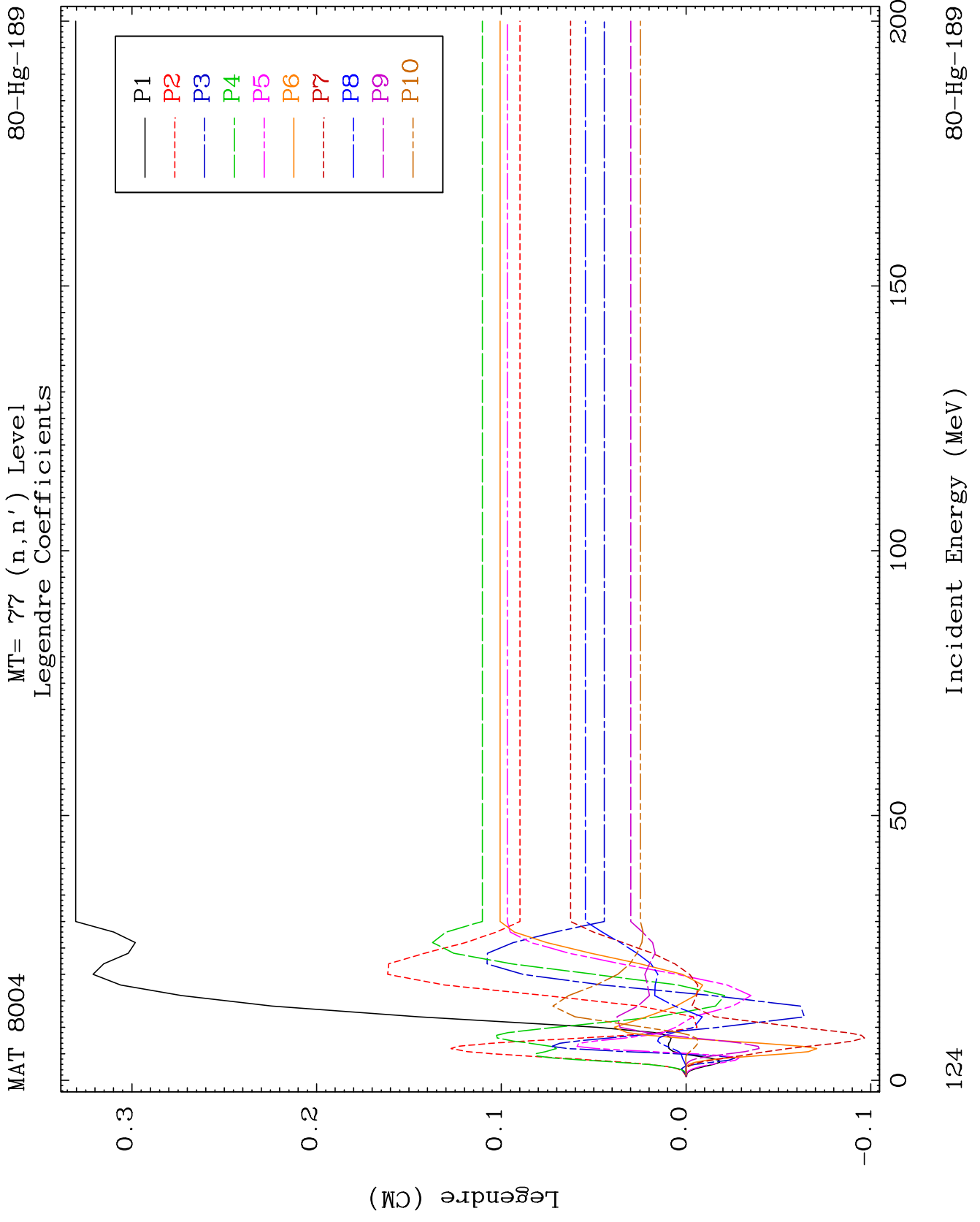
Incident Energy (MeV)

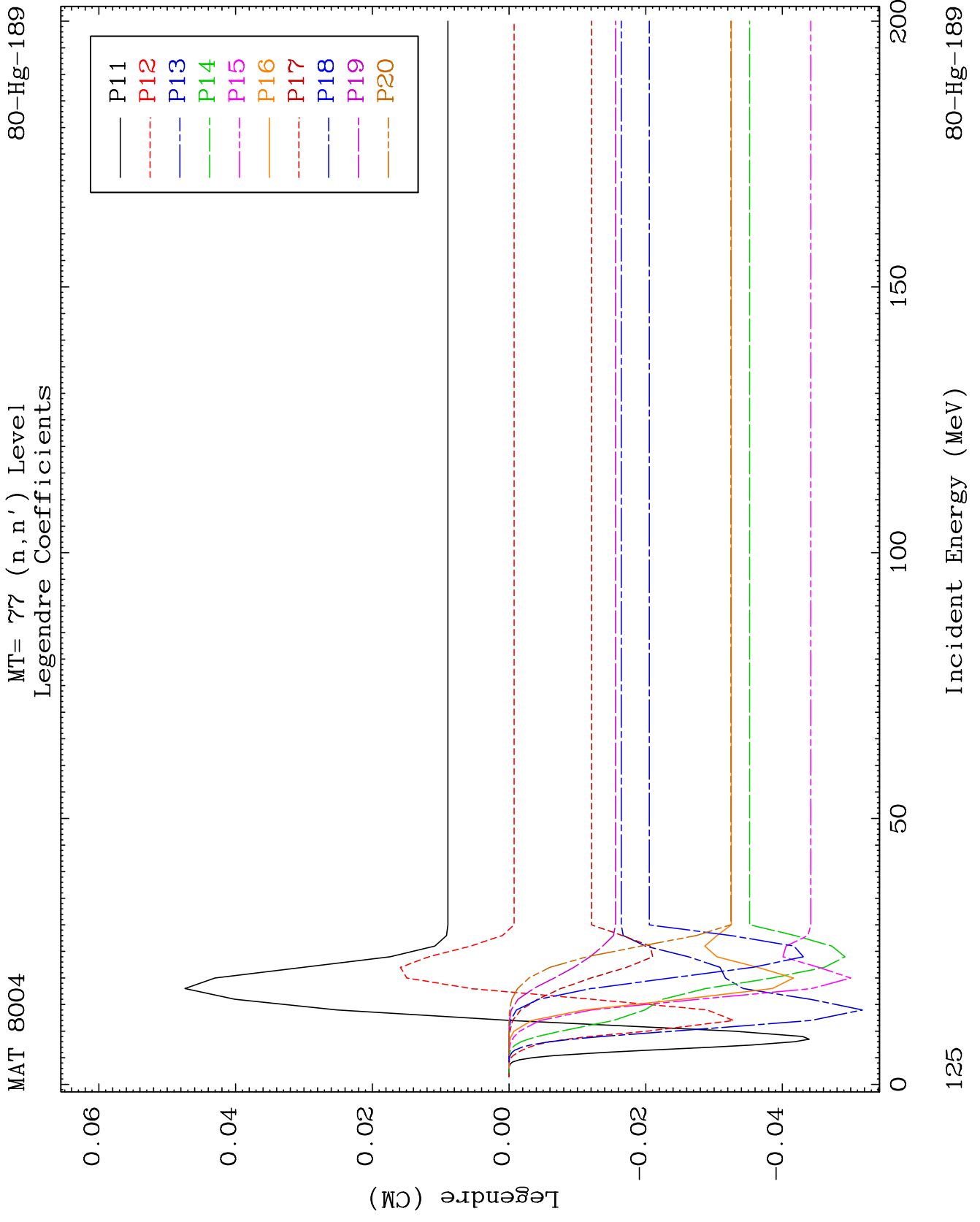
80-Hg-189







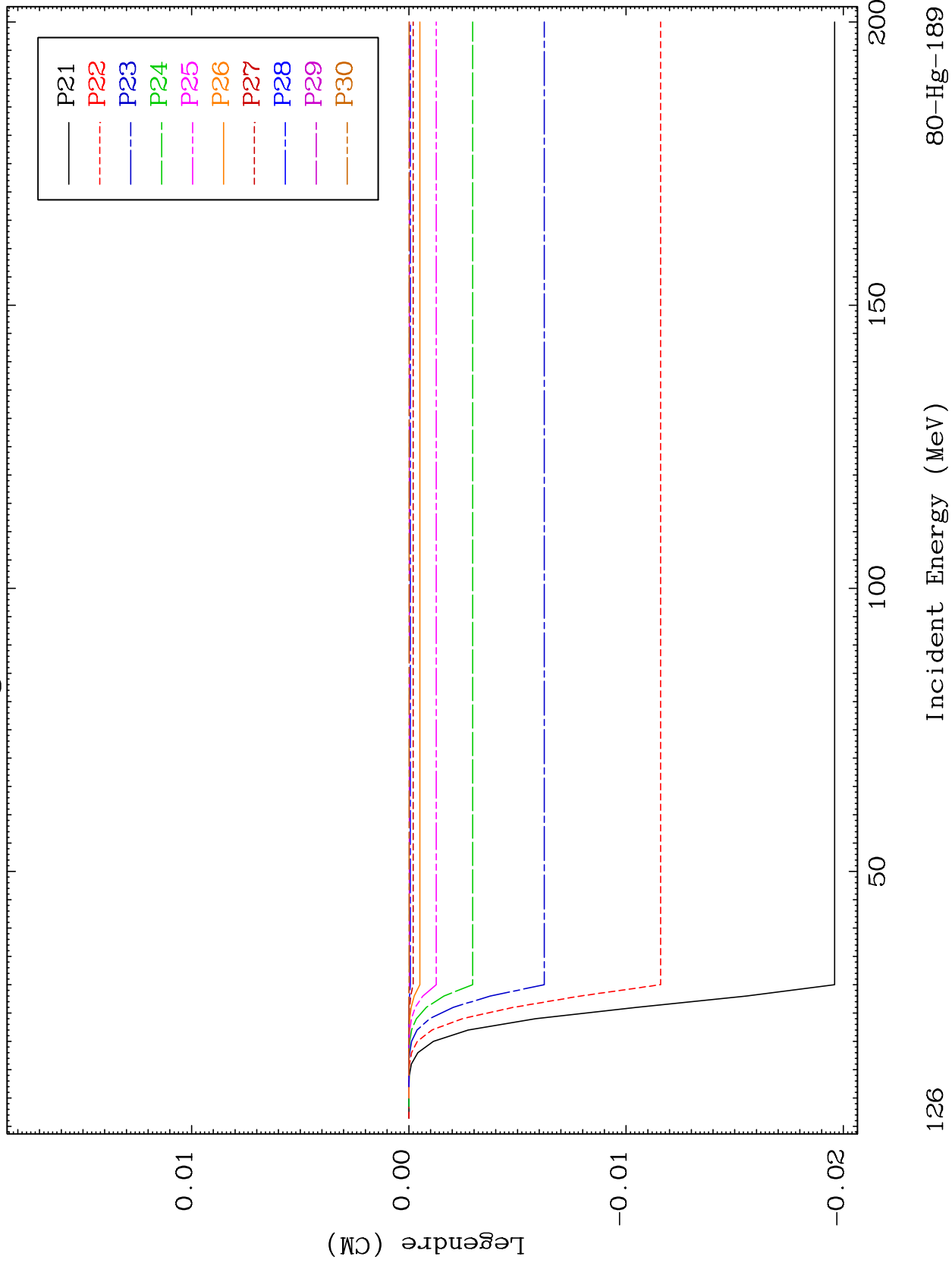




MAT 8004

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

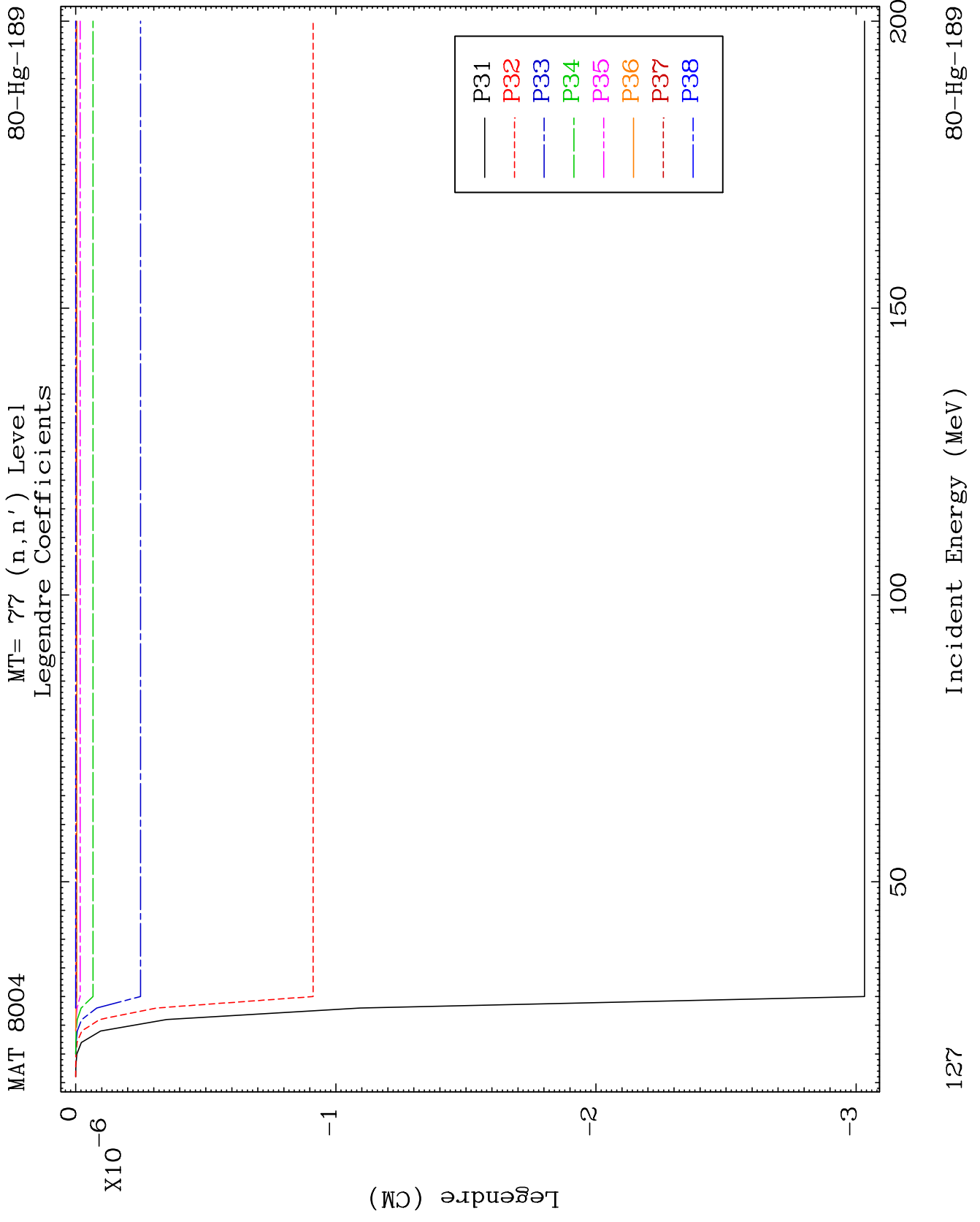
80-Hg-189

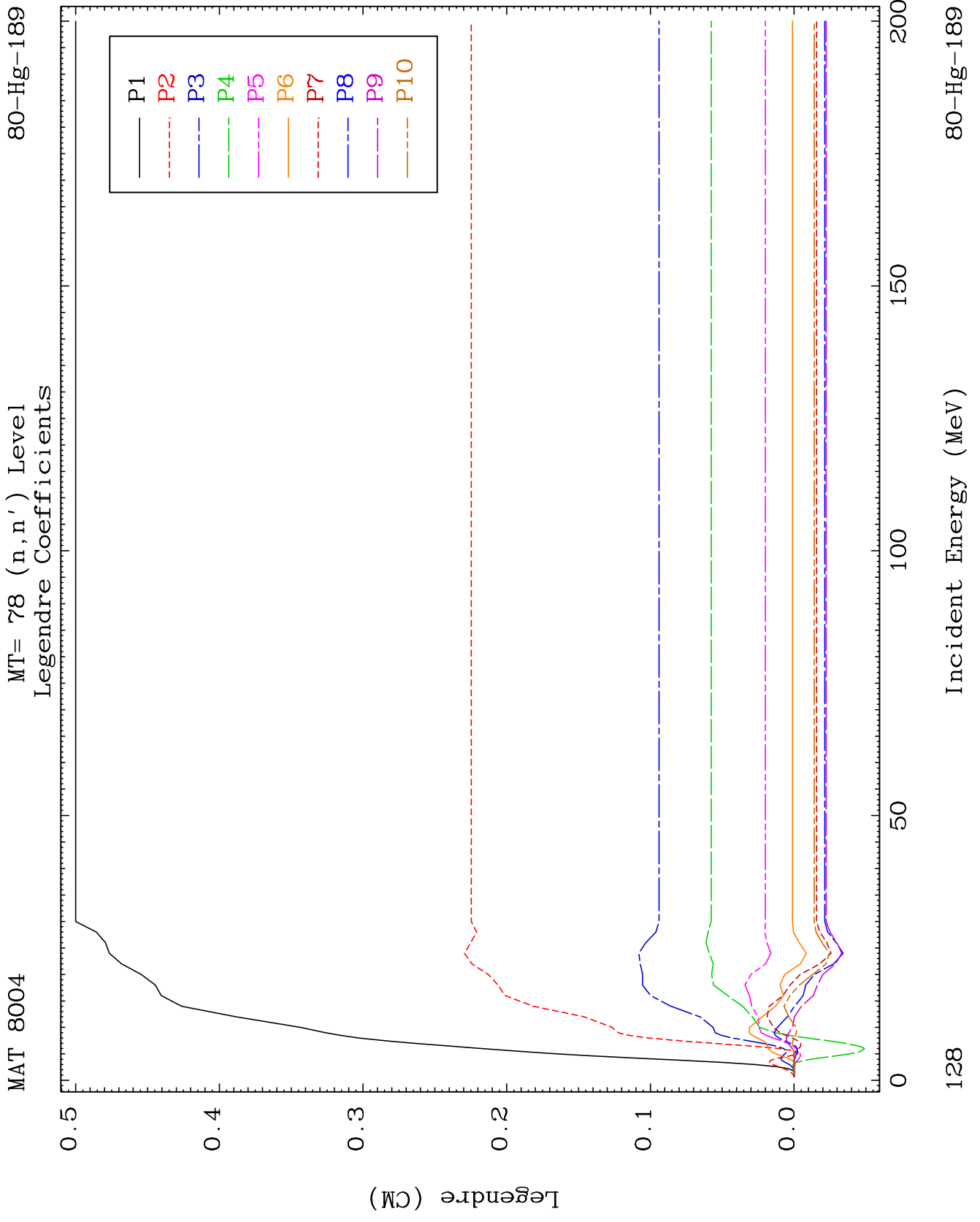


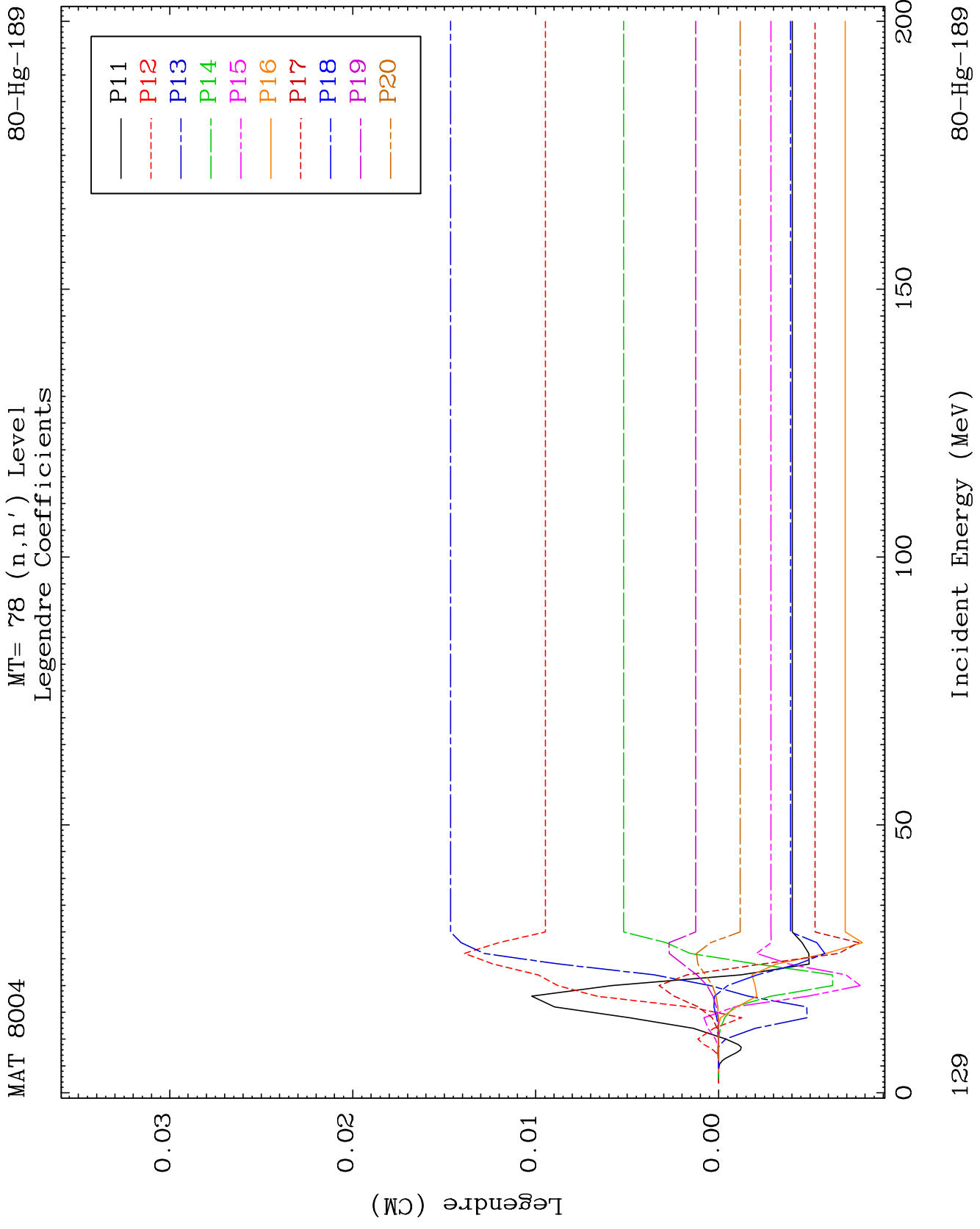
126

Incident Energy (MeV)

80-Hg-189



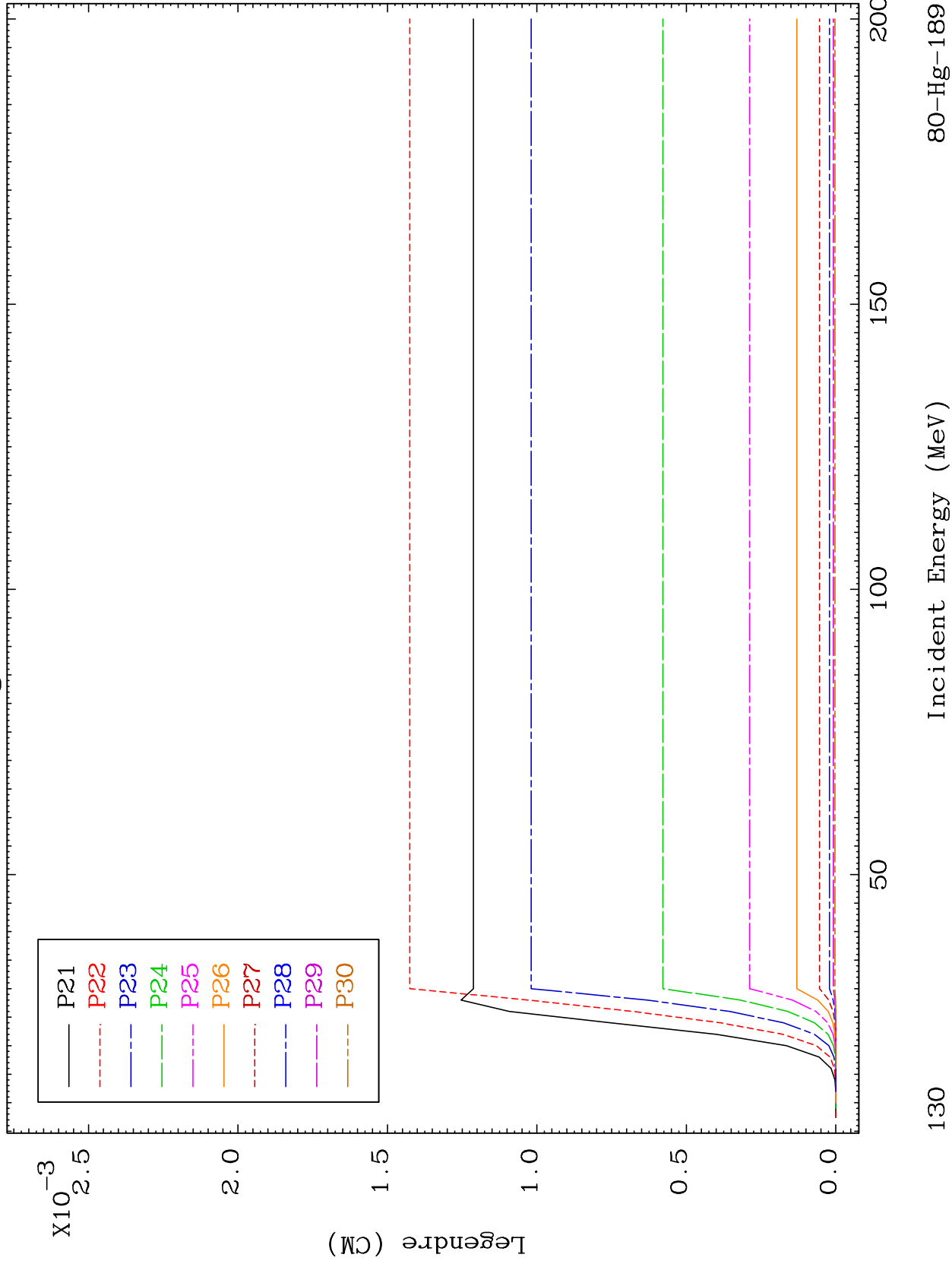




MAT 8004

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

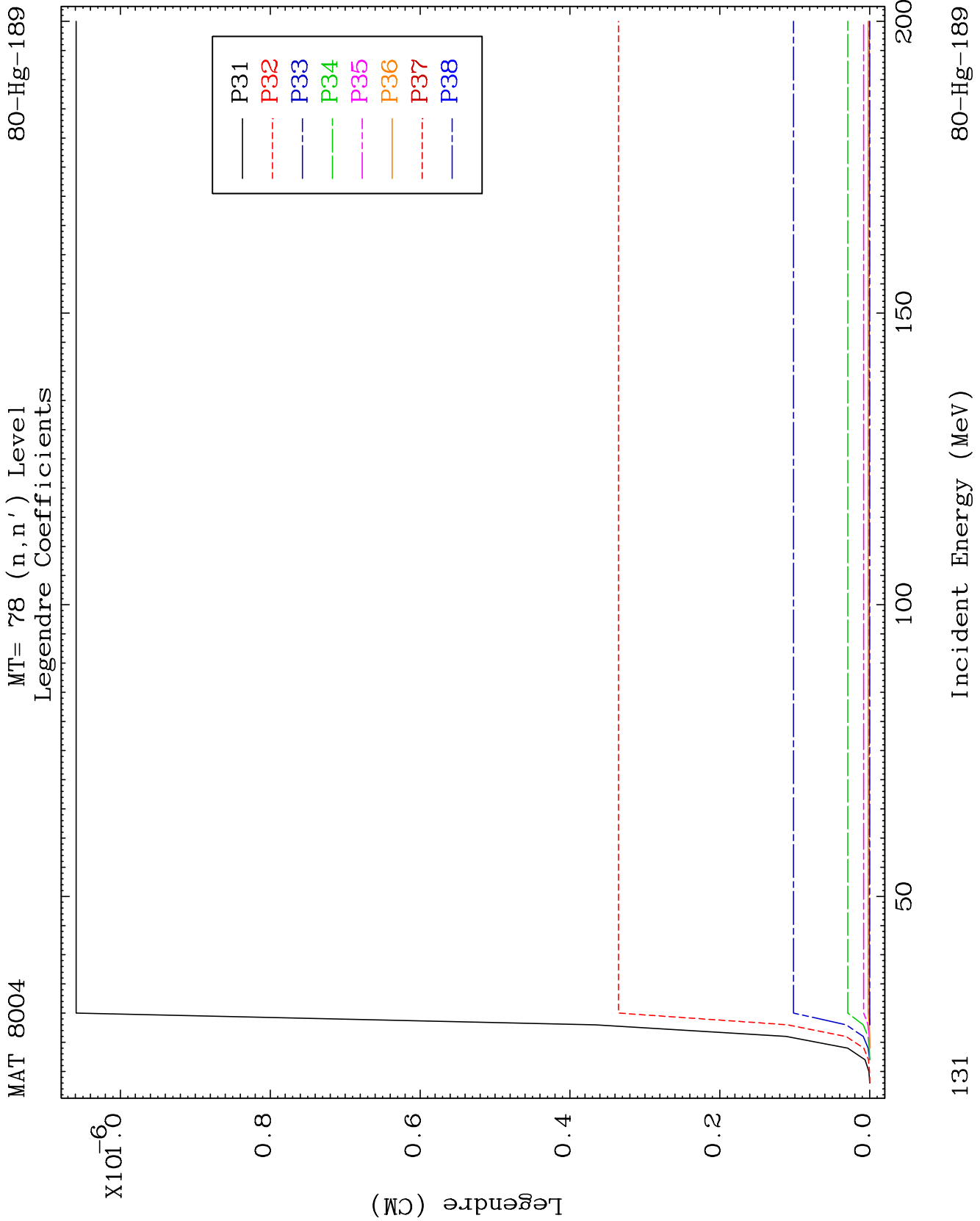
80-Hg-189



130

Incident Energy (MeV)

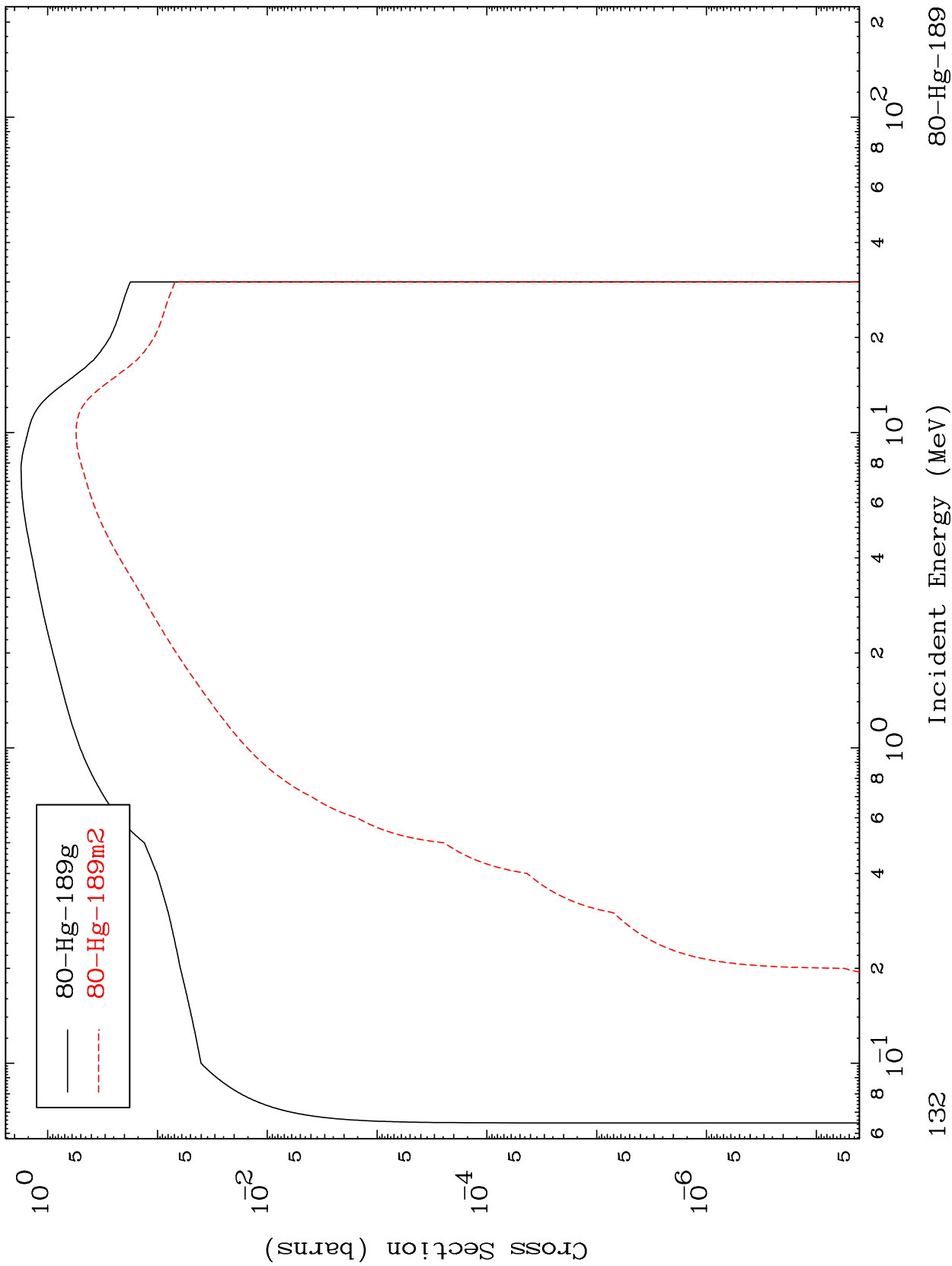
80-Hg-189



MAT 8004

80-Hg-189

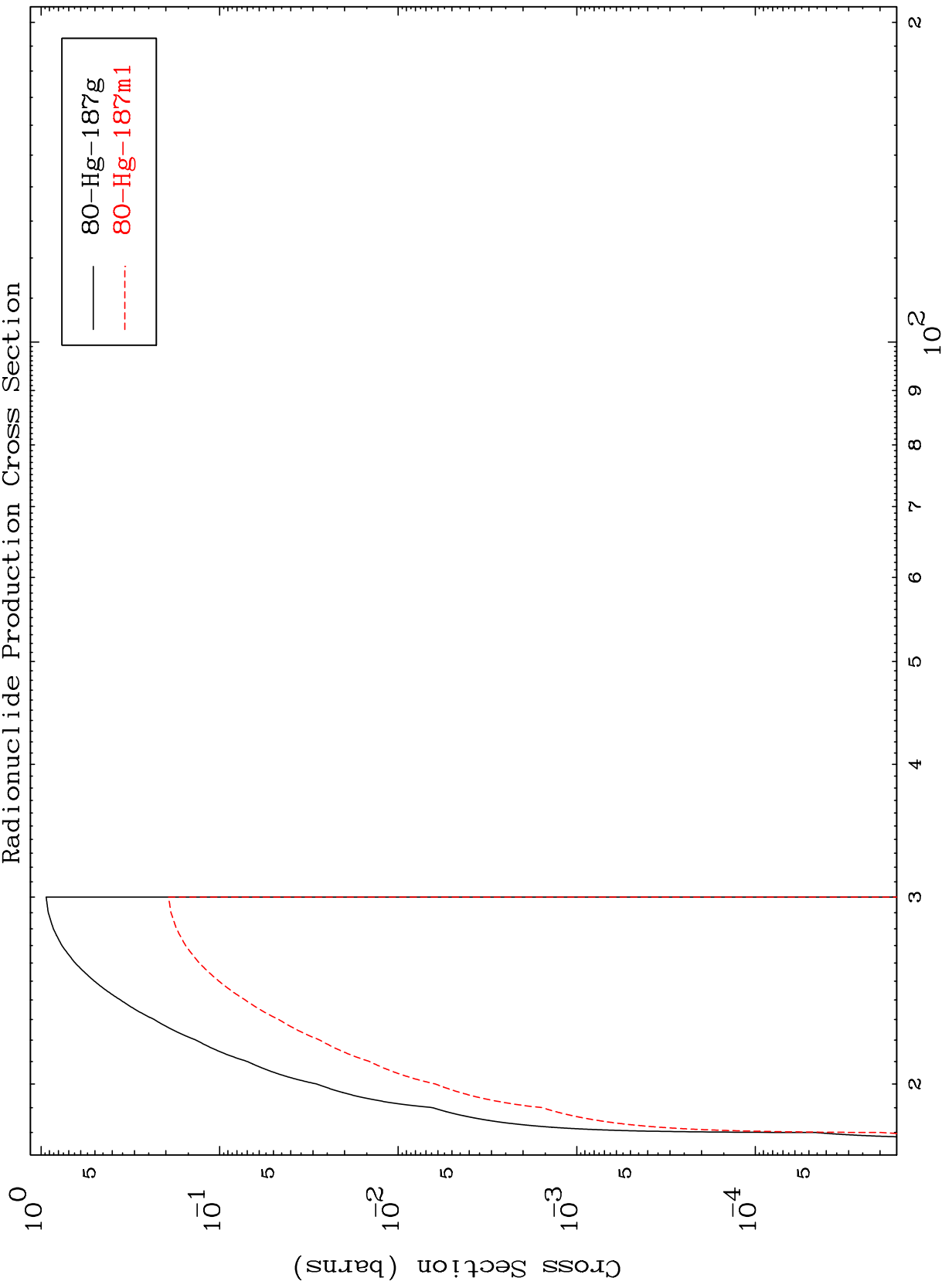
Radionuclide Production Cross Section



MAT 8004

80-Hg-189

(n,3n)
Radionuclide Production Cross Section



133

Incident Energy (MeV)

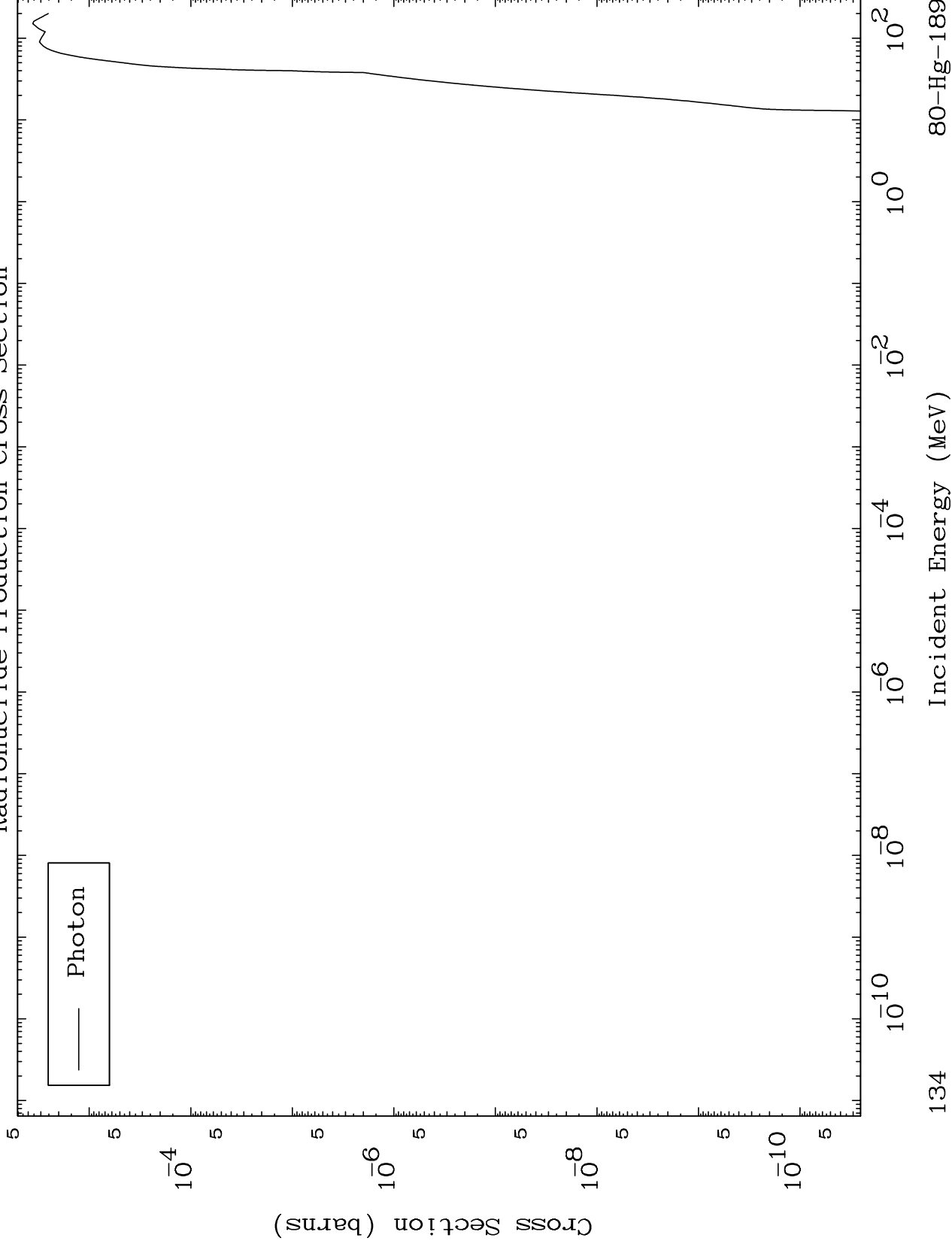
80-Hg-189

MAT 8004

Fission

80-Hg-189

Radionuclide Production Cross Section

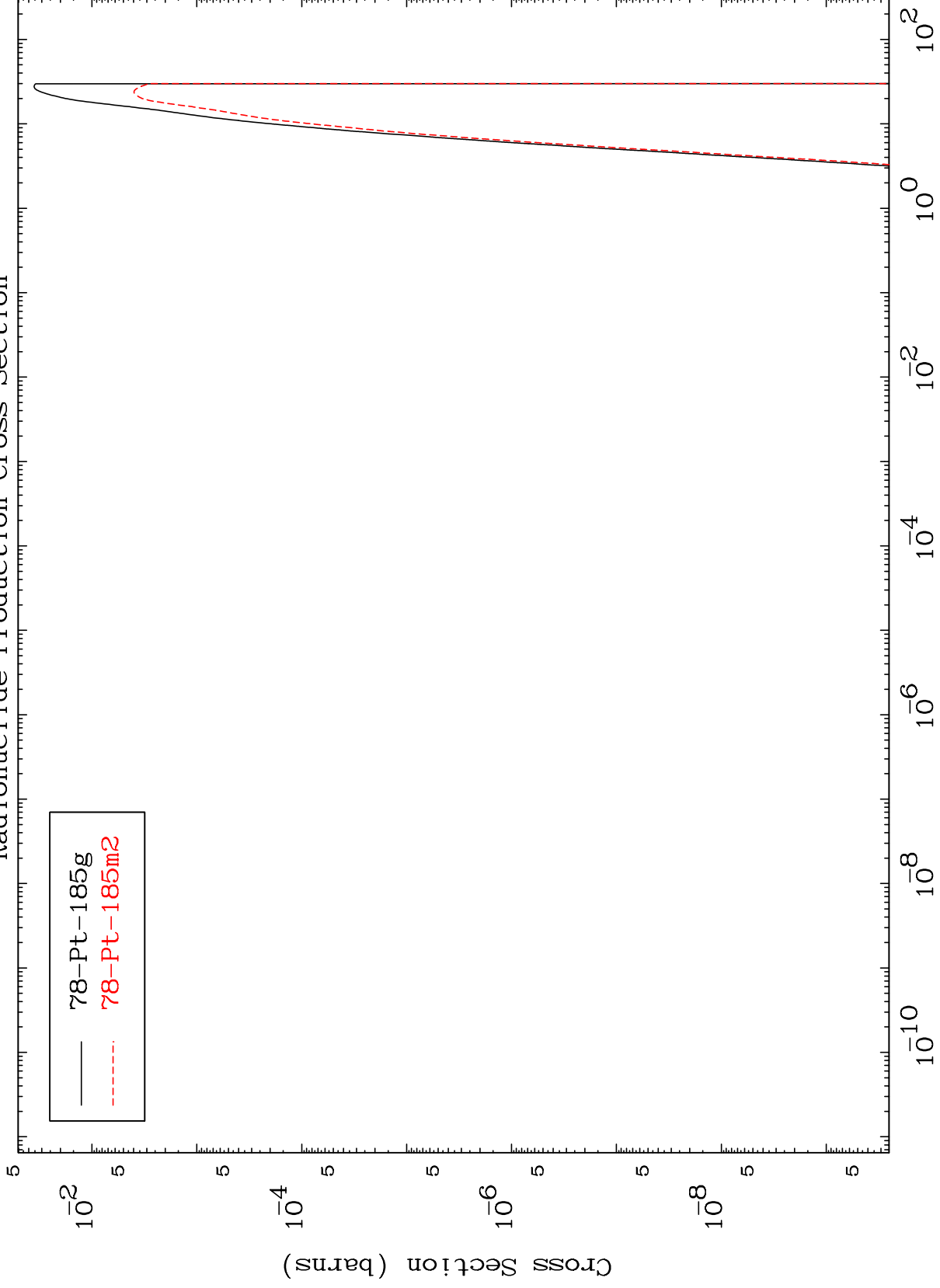


MAT 8004

$(n, n') \alpha$

80-Hg-189

Radionuclide Production Cross Section

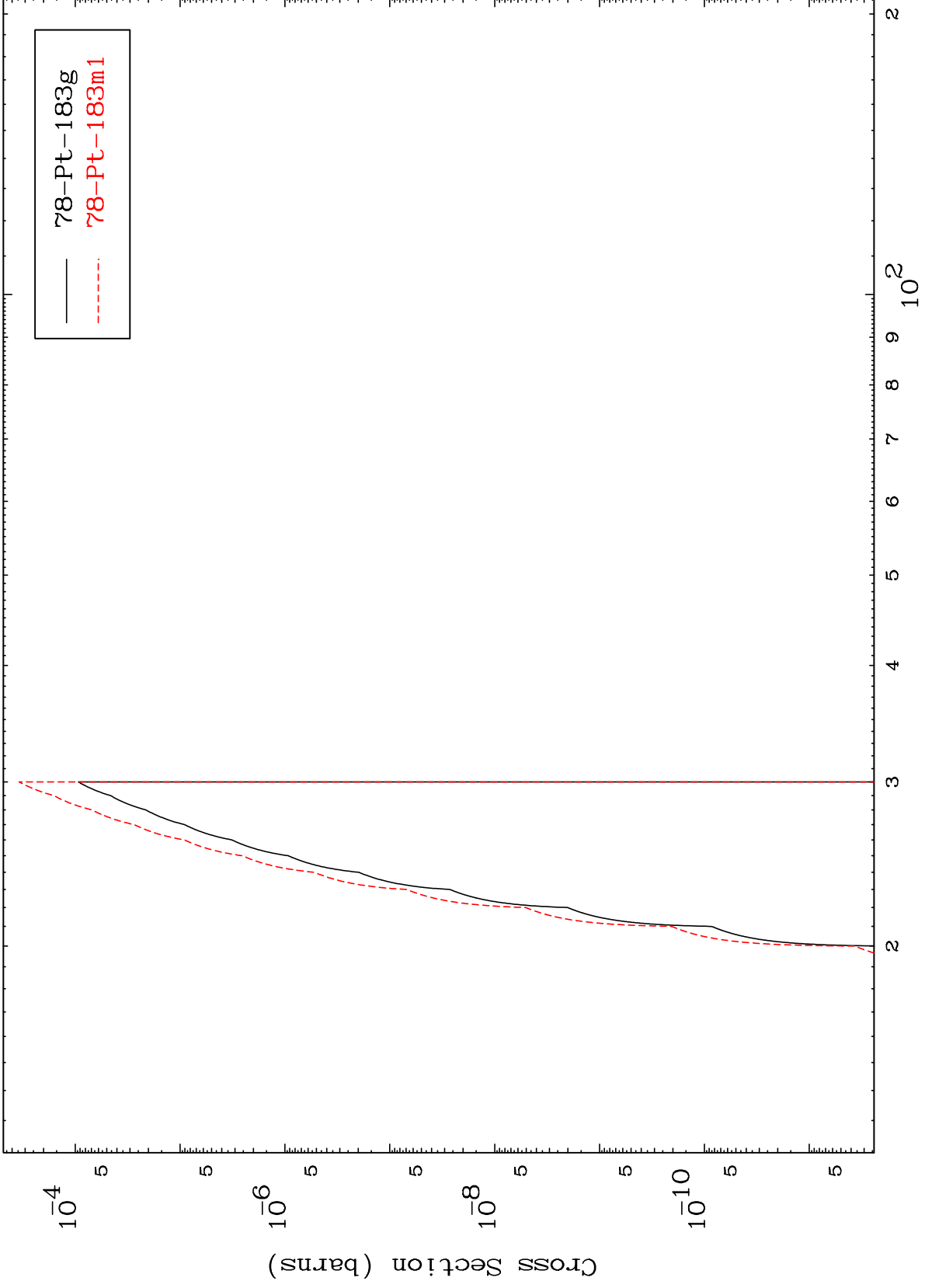


MAT 8004

(n,3n) α

80-Hg-189

Radionuclide Production Cross Section



136

Incident Energy (MeV)

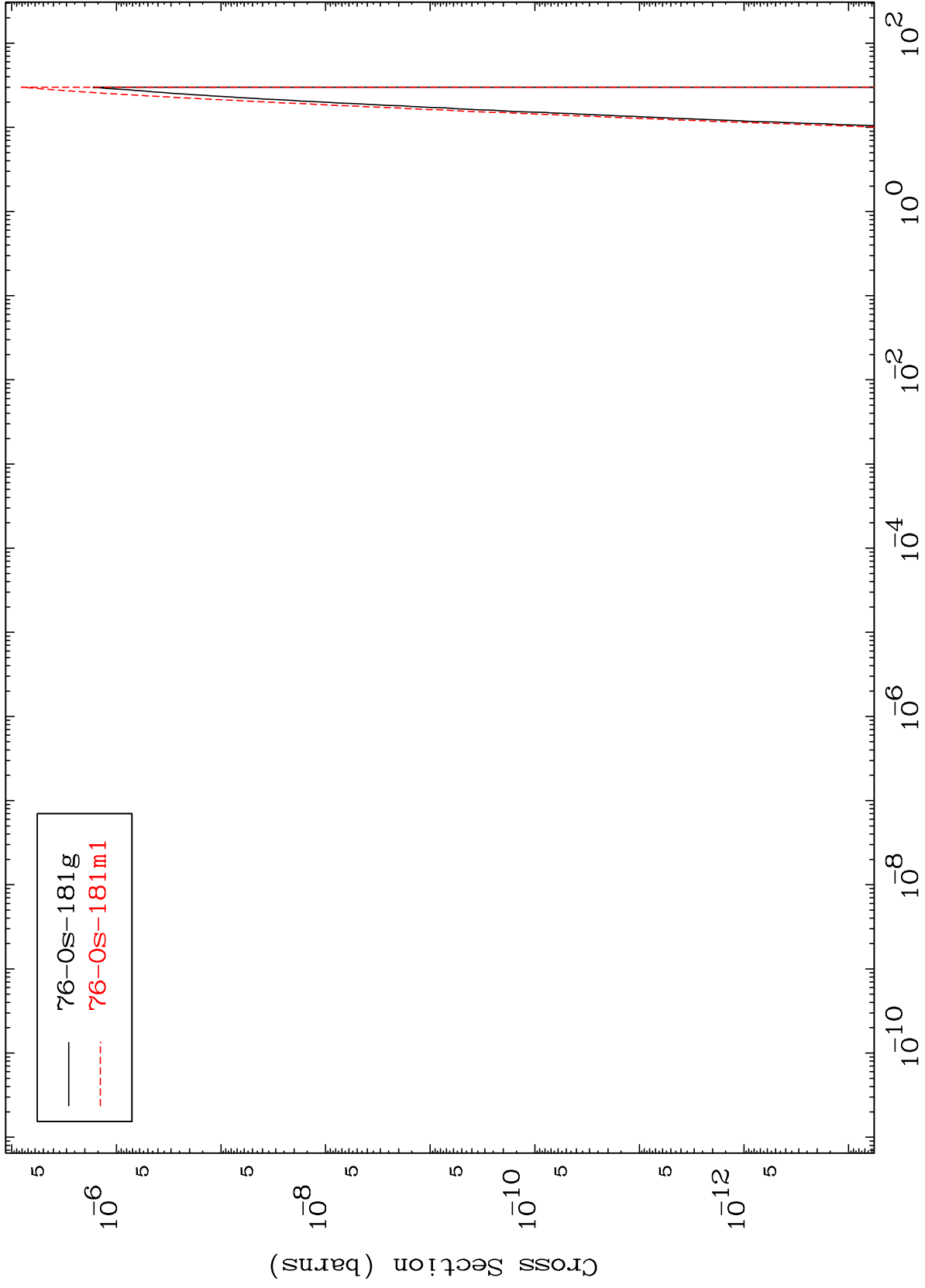
80-Hg-189

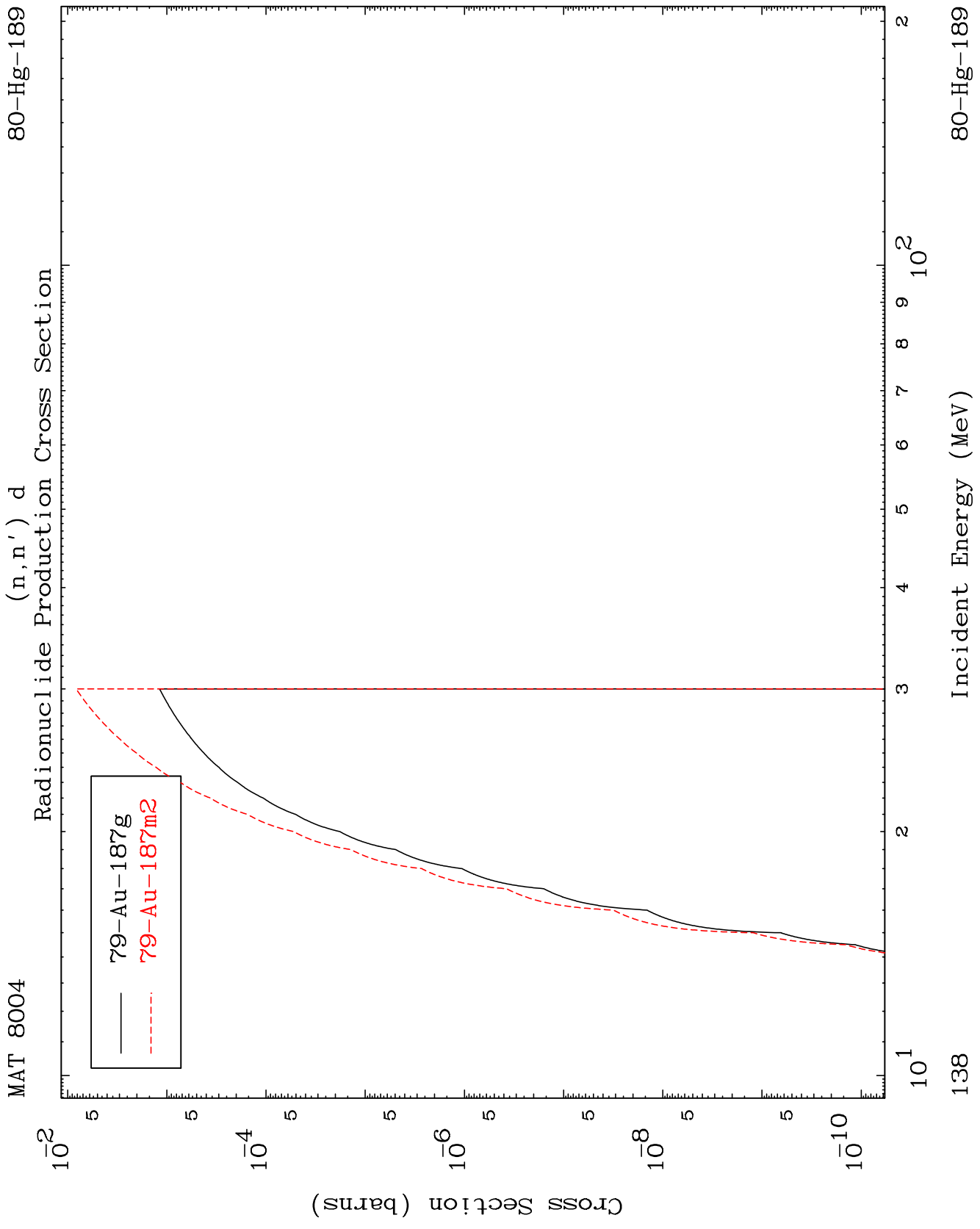
MAT 8004

(n,n') 2α

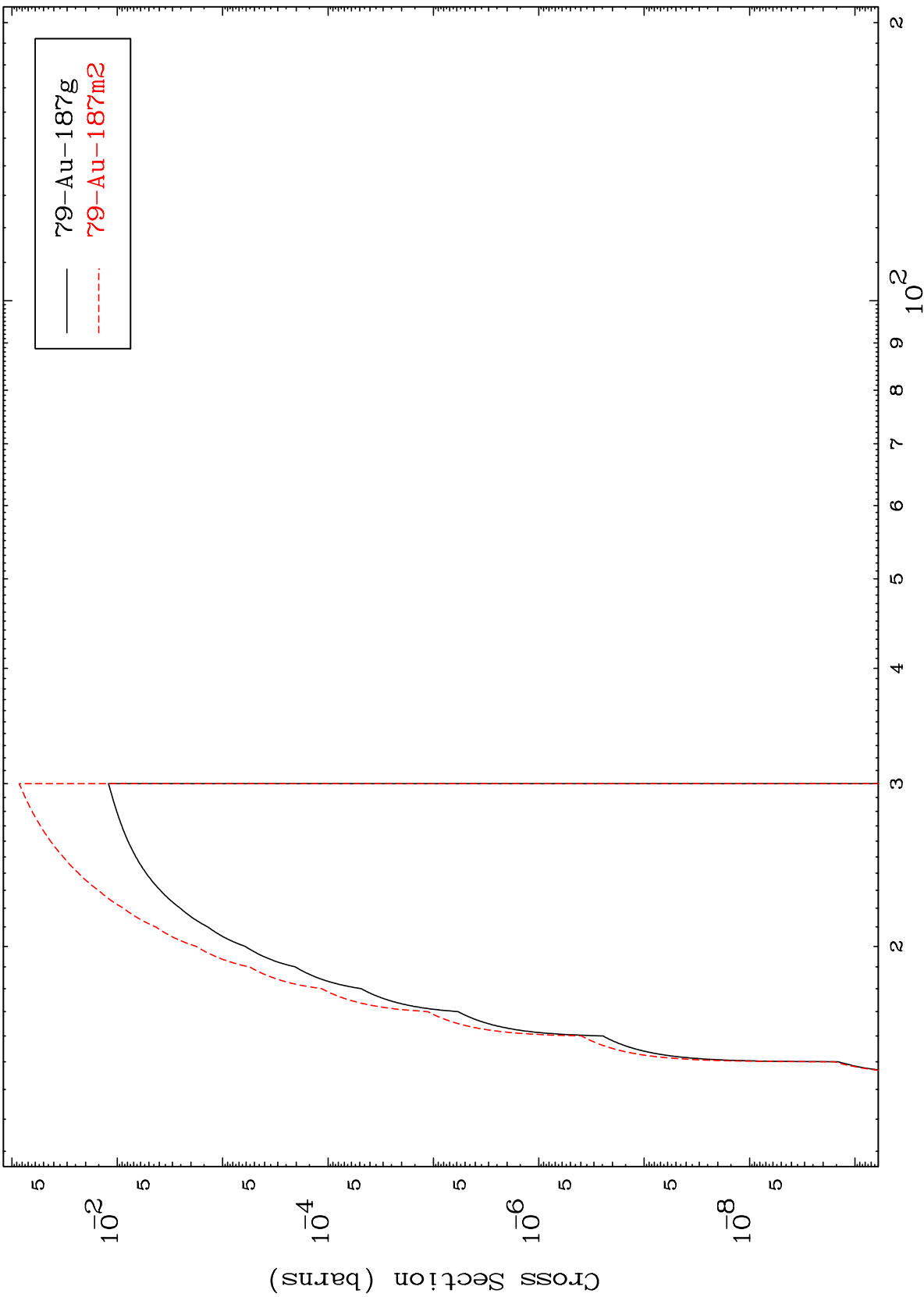
80-Hg-189

Radionuclide Production Cross Section





Radionuclide Production Cross Section



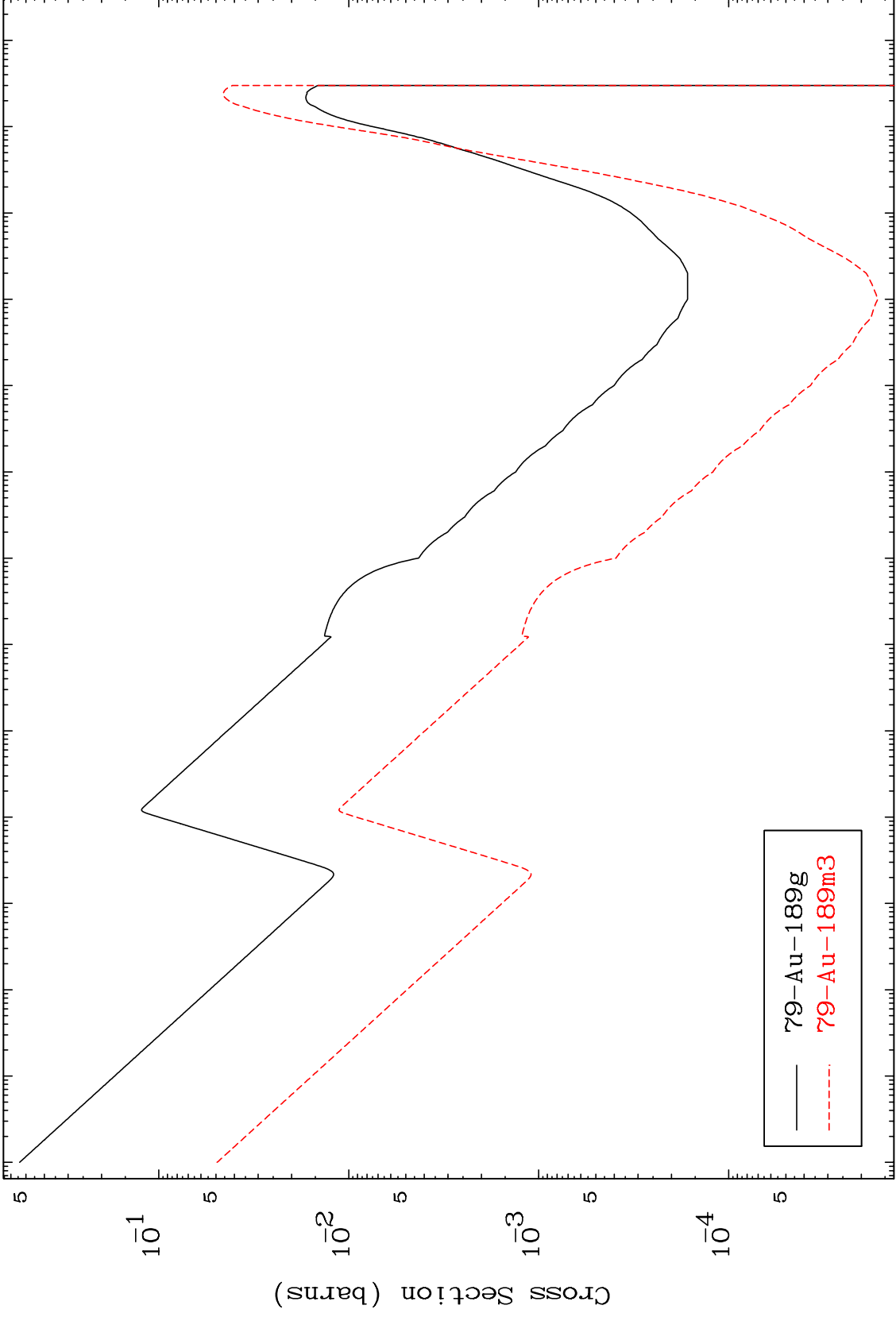
79-Au-187g
79-Au-187m2

MAT 8004

(n,p)

80-Hg-189

Radionuclide Production Cross Section



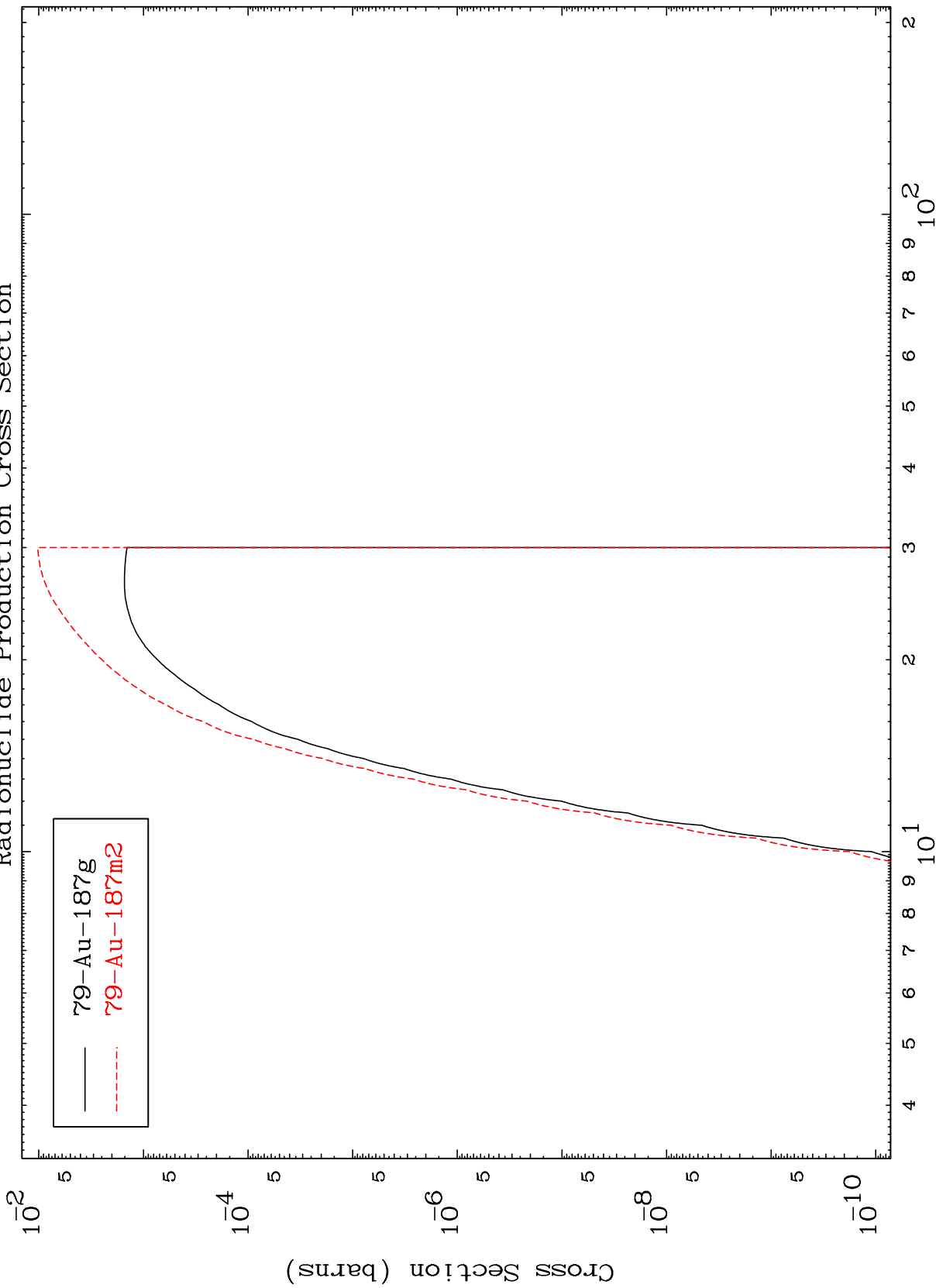
— 79-Au-189g
- - - 79-Au-189m3

140 Incident Energy (MeV) 80-Hg-189

MAT 8004

80-Hg-189

Radionuclide Production Cross Section (n, t)



80-Hg-189

Incident Energy (MeV)

141