

Program EVALPLOT
(Version 2018-1)

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

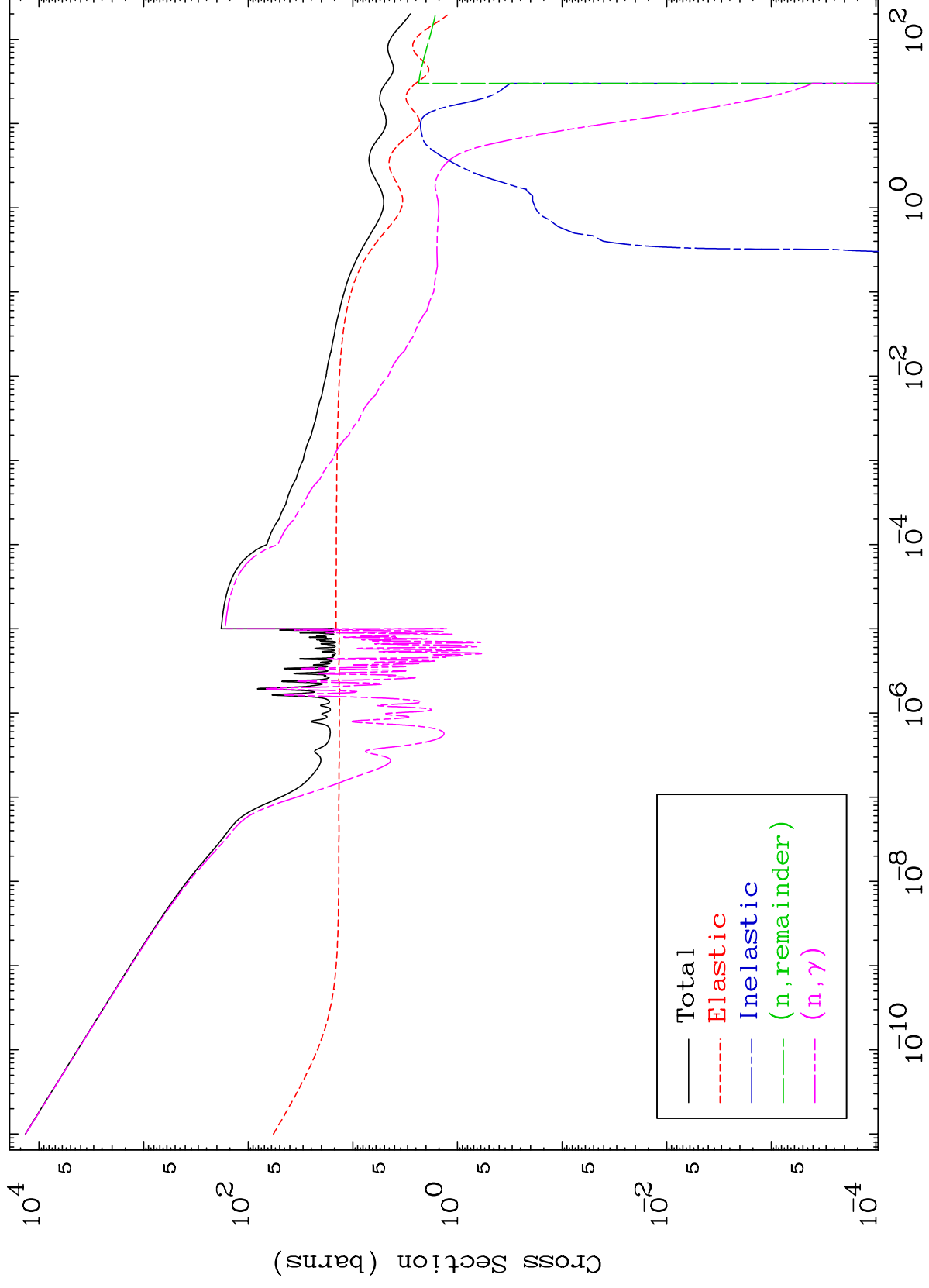
Press Mouse Button to Start

MAT 8083

Major

293 Kelvin Cross Sections

81-Tl-189



1

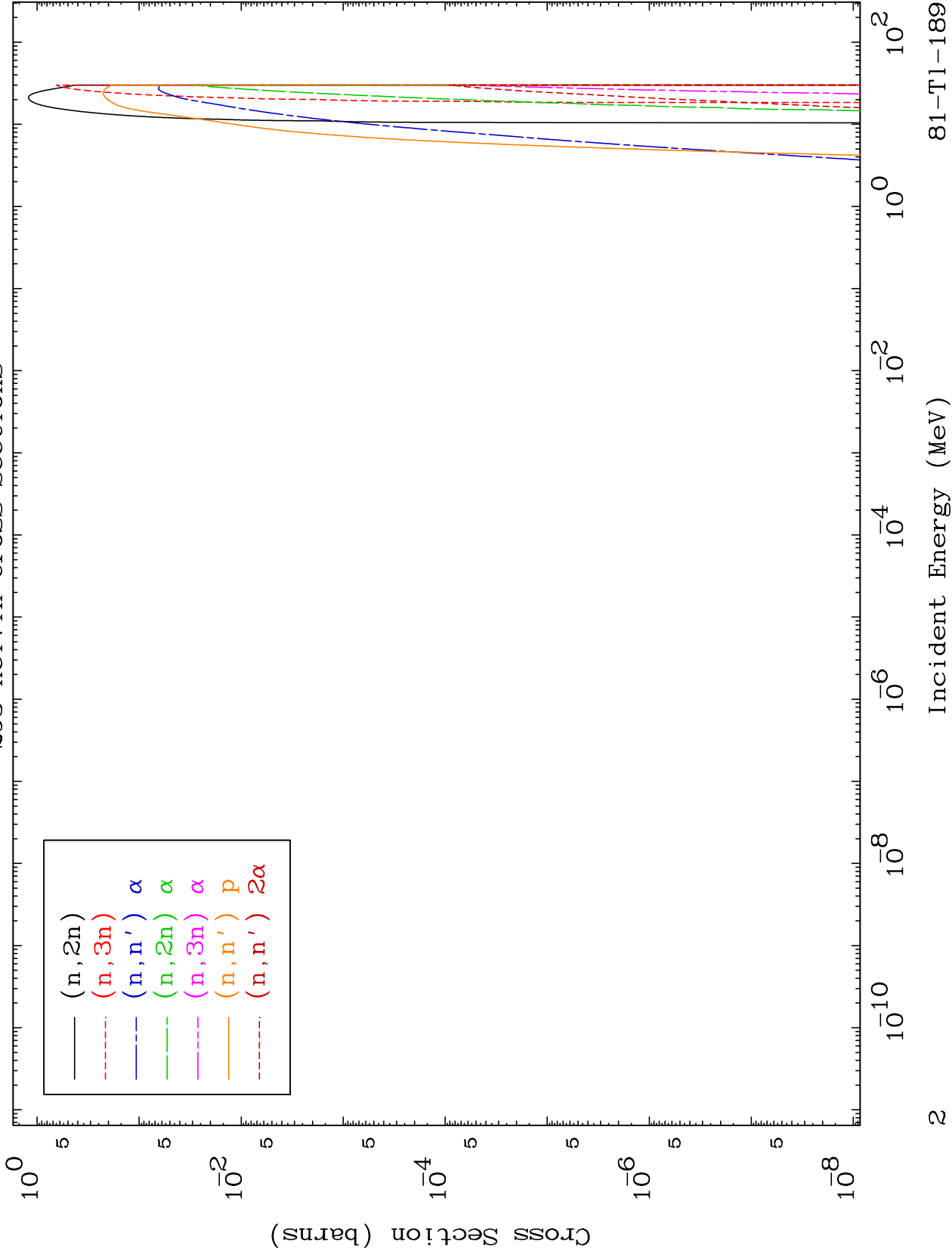
Incident Energy (MeV)

81-Tl-189

MAT 8083

Neutron Production
293 Kelvin Cross Sections

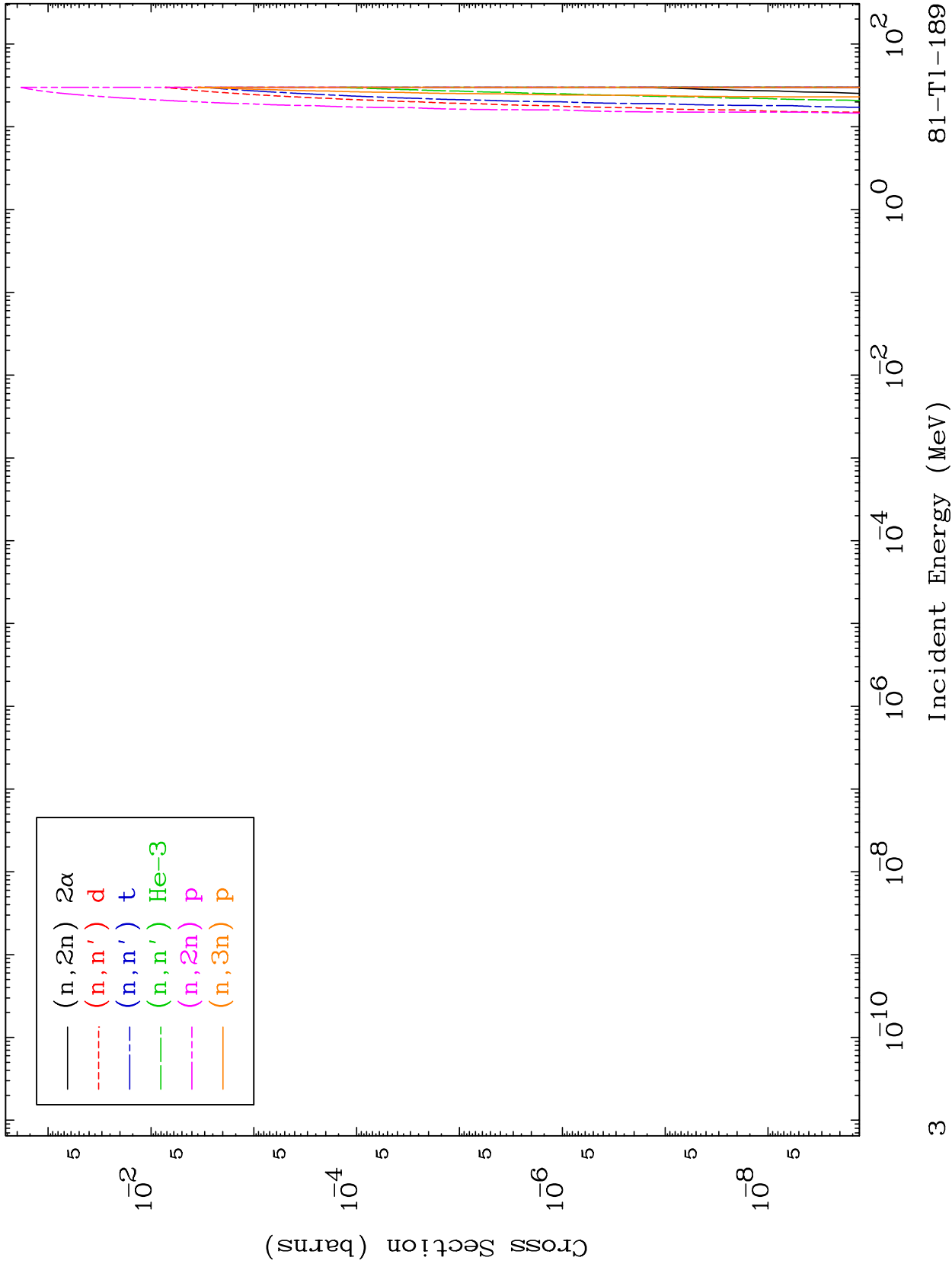
81-Tl-189



MAT 8083

Neutron Production
293 Kelvin Cross Sections

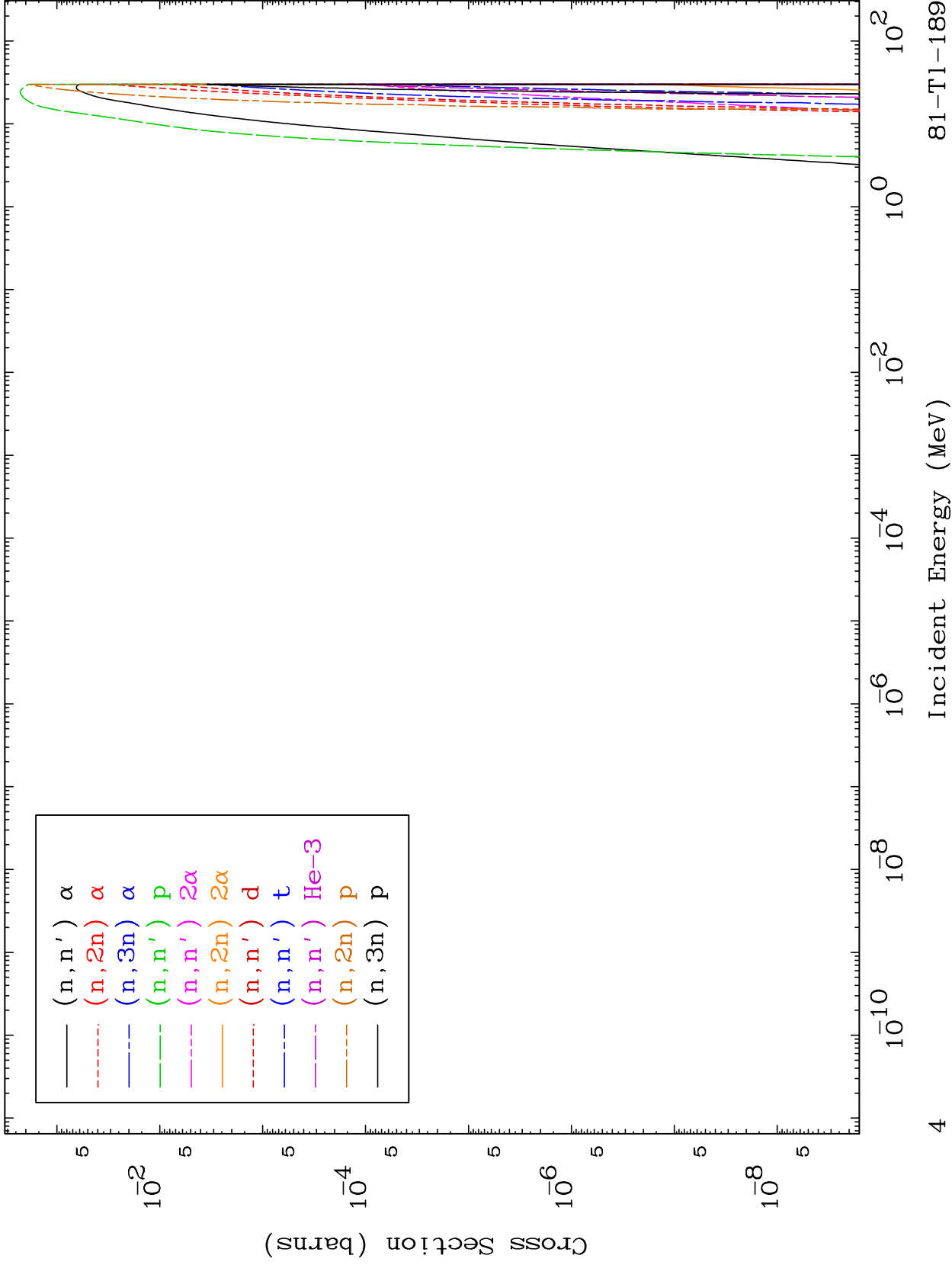
81-Tl-189



MAT 8083

Charged Particle
293 Kelvin Cross Sections

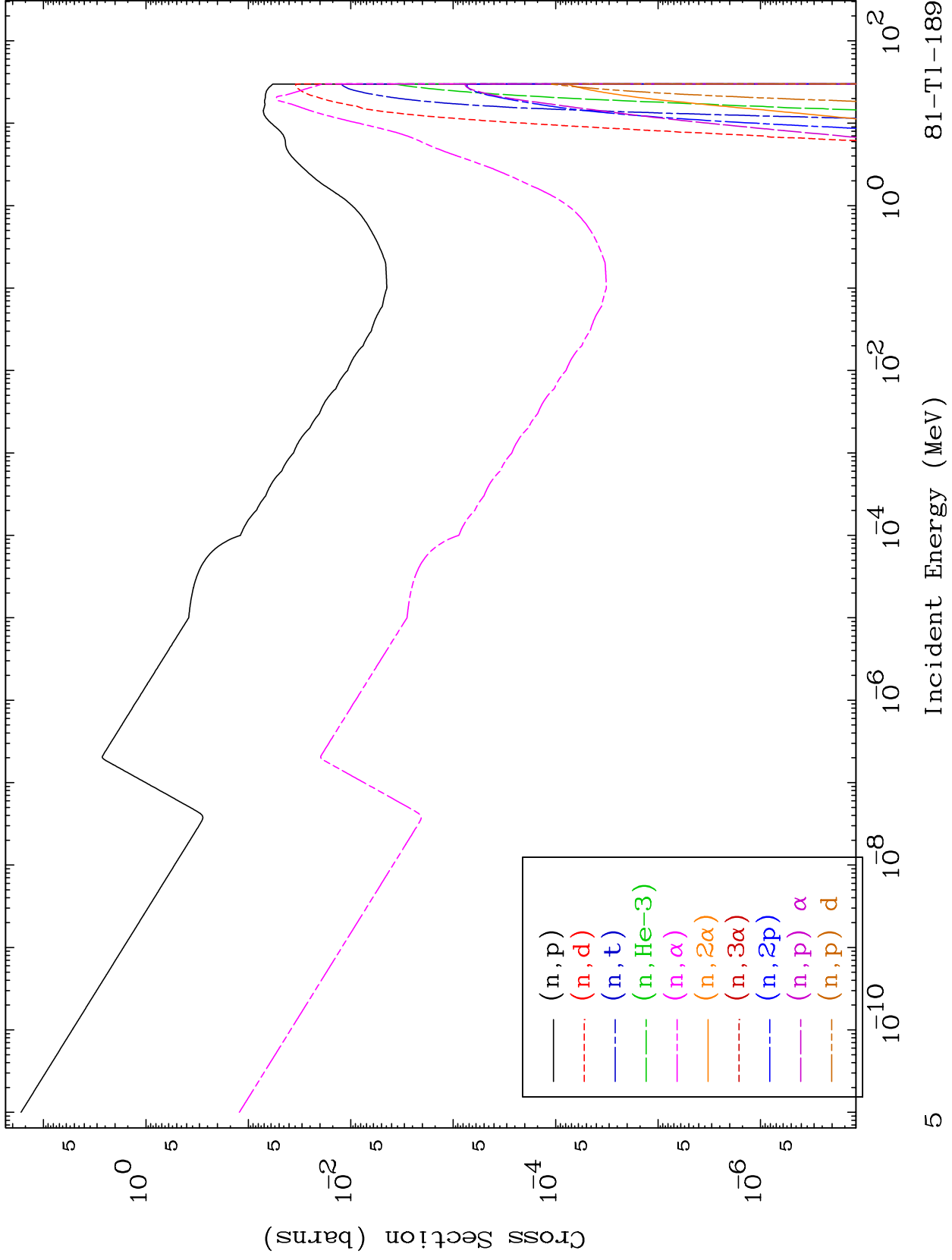
81-Tl-189



MAT 8083

Charged Particle
293 Kelvin Cross Sections

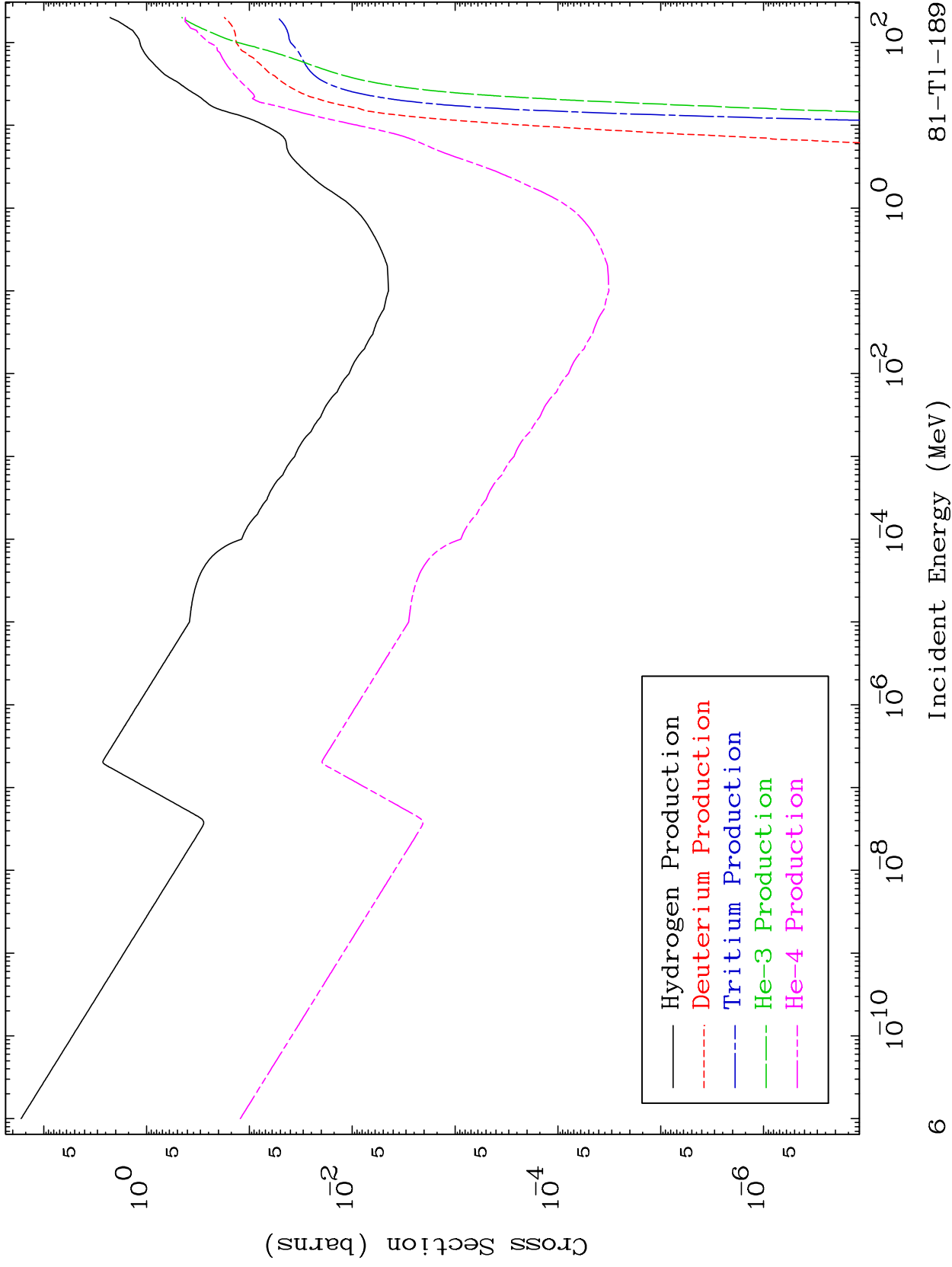
81-Tl-189



MAT 8083

Particle Production
293 Kelvin Cross Sections

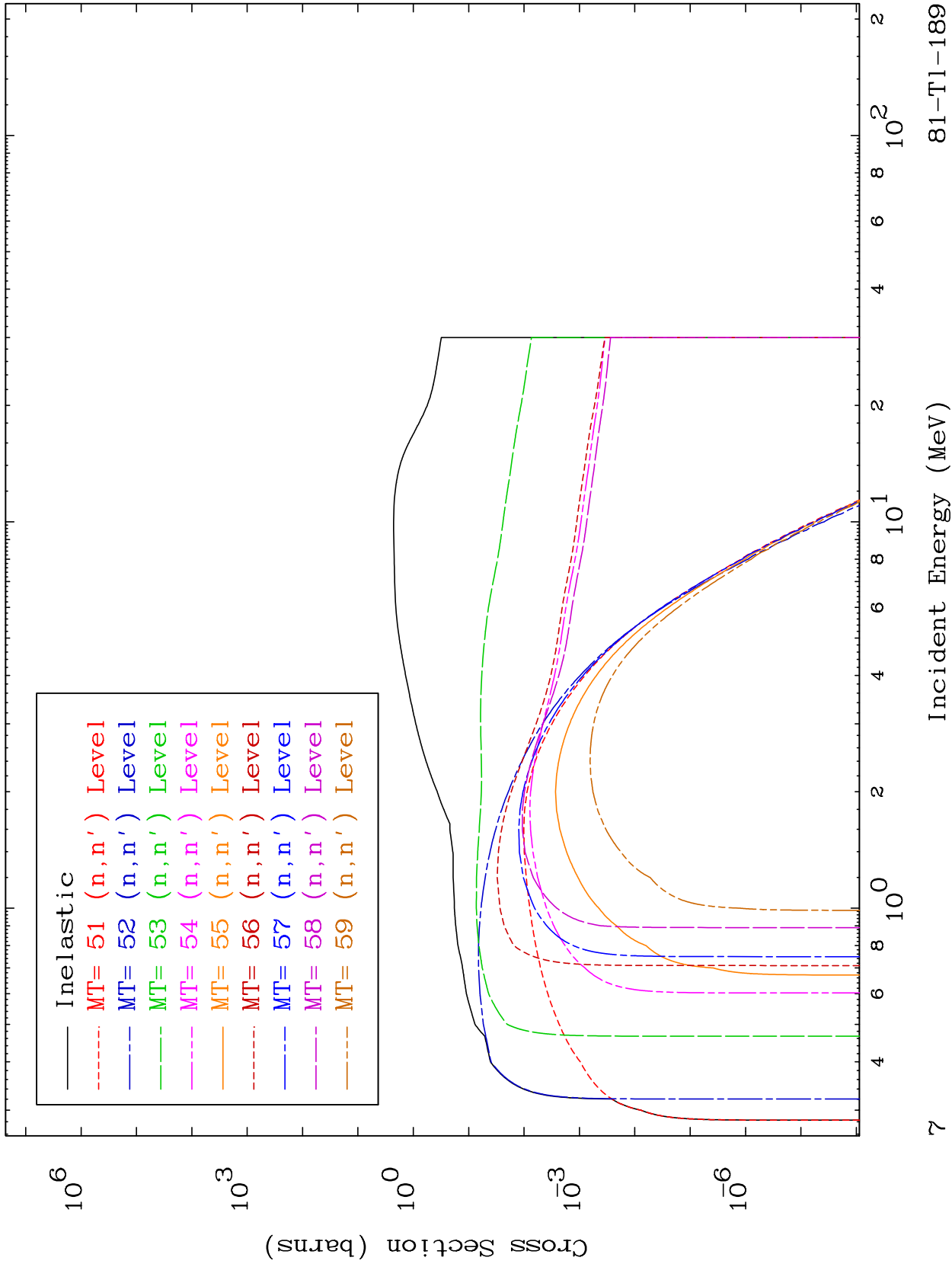
81-Tl-189



MAT 8083

(n,n') Level
293 Kelvin Cross Sections

81-Tl-189

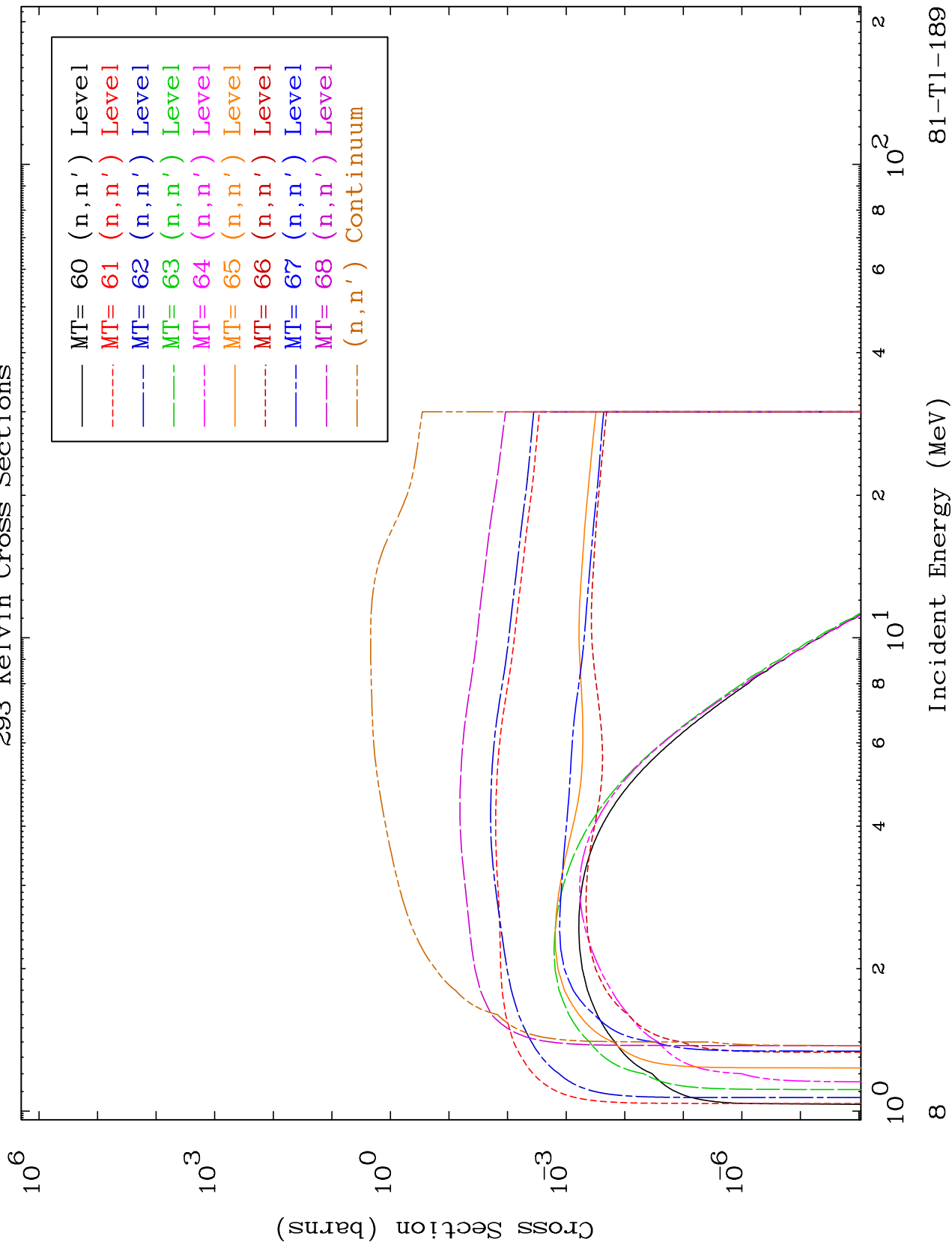


MAT 8083

(n,n') Level

81-Tl-189

293 Kelvin Cross Sections



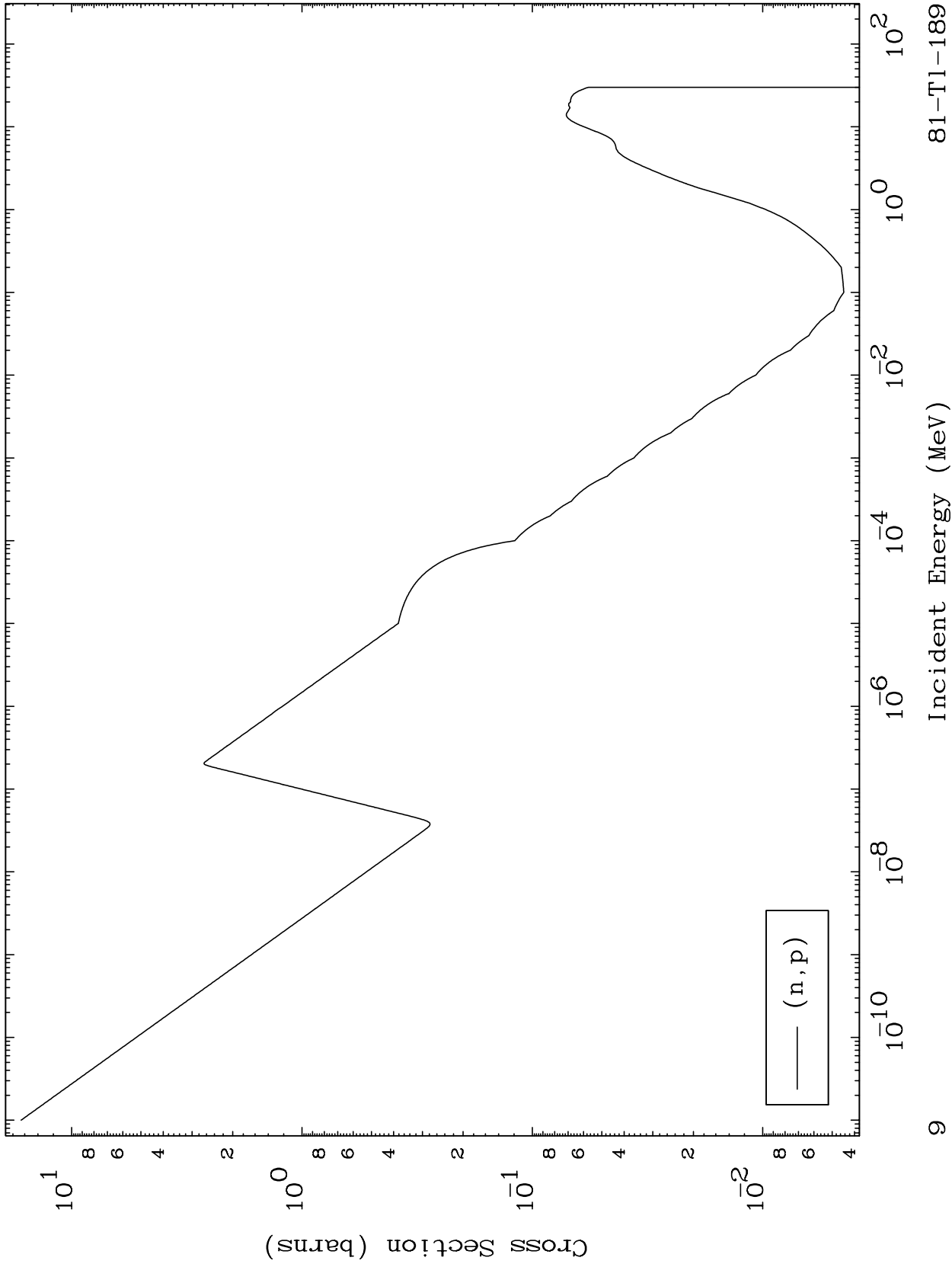
Incident Energy (MeV)

81-Tl-189

MAT 8083

(n,p) Levels
293 Kelvin Cross Sections

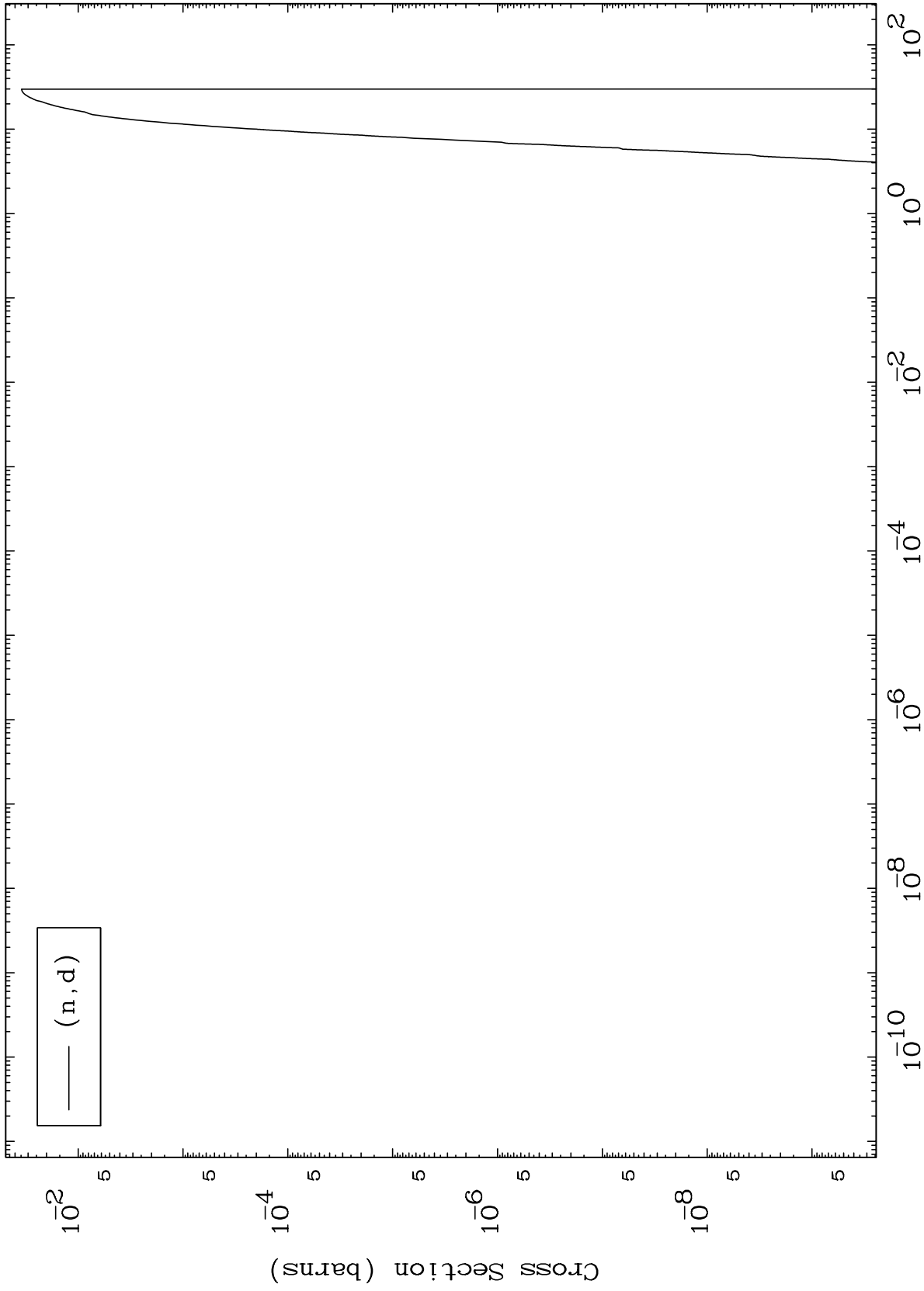
81-Tl-189



MAT 8083

(n,d) Levels
293 Kelvin Cross Sections

81-Tl-189



10

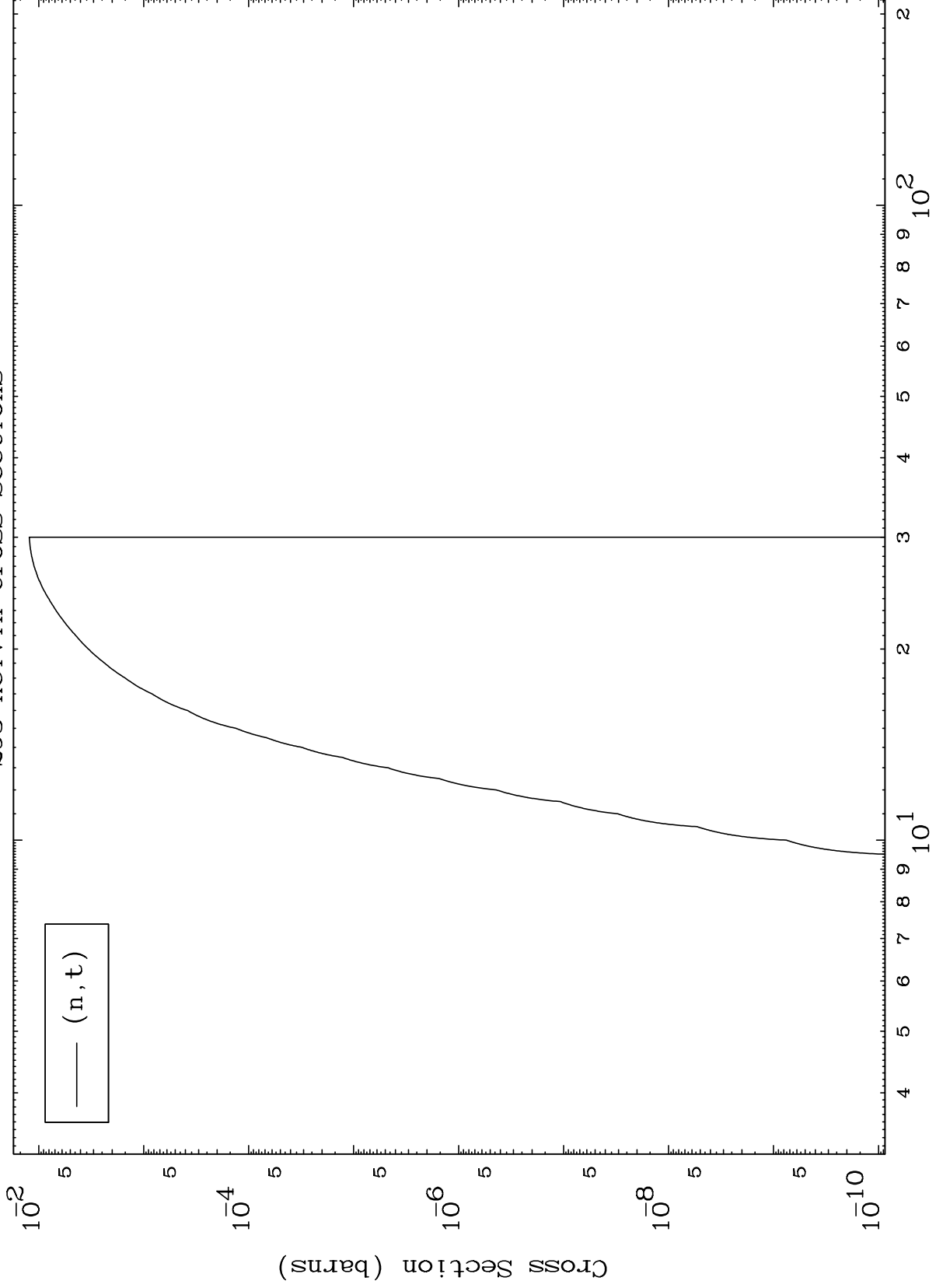
Incident Energy (MeV)

81-Tl-189

MAT 8083

(n,t) Levels
293 Kelvin Cross Sections

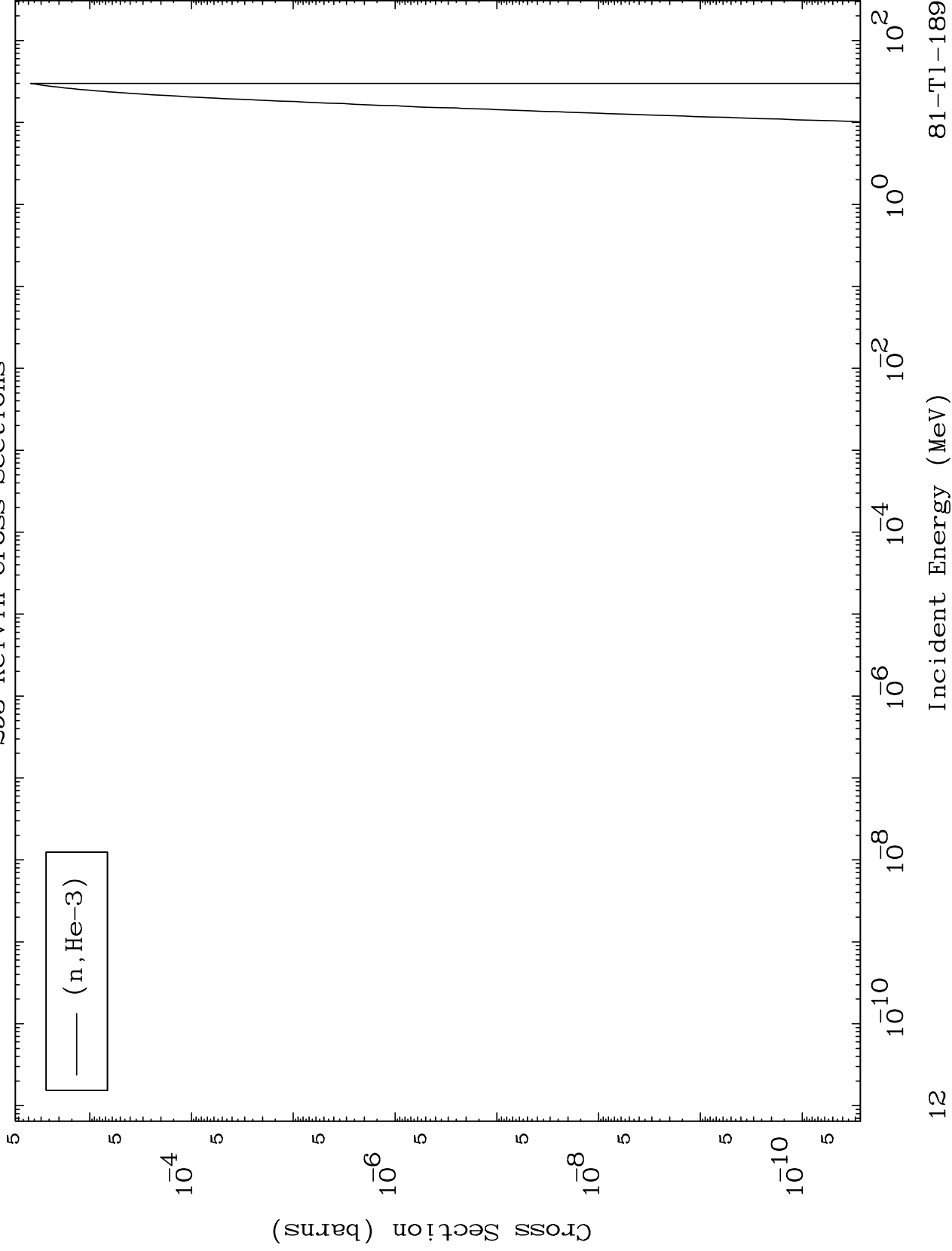
81-Tl-189



MAT 8083

(n,He3) Levels
293 Kelvin Cross Sections

81-Tl-189



12

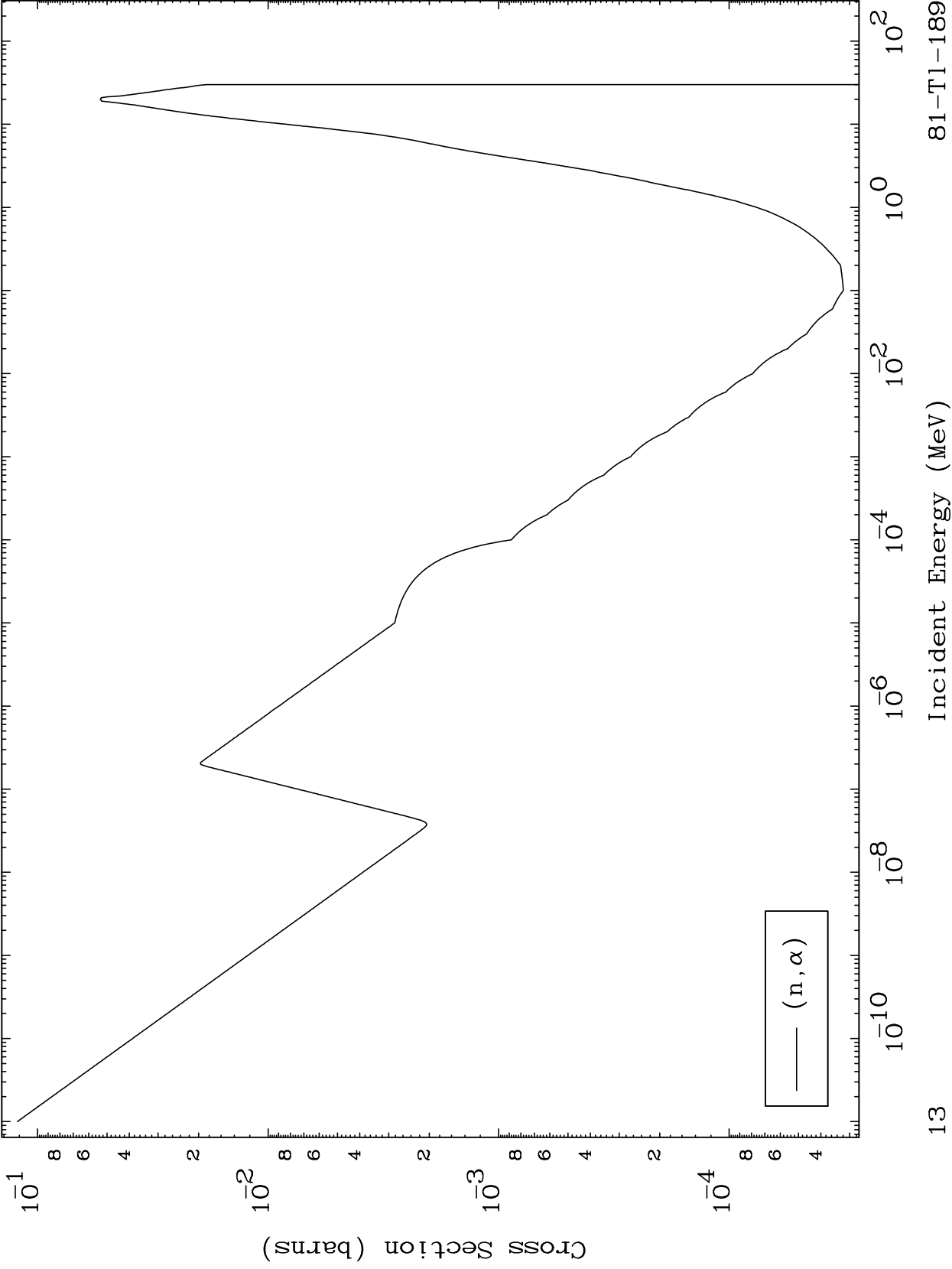
Incident Energy (MeV)

81-Tl-189

MAT 8083

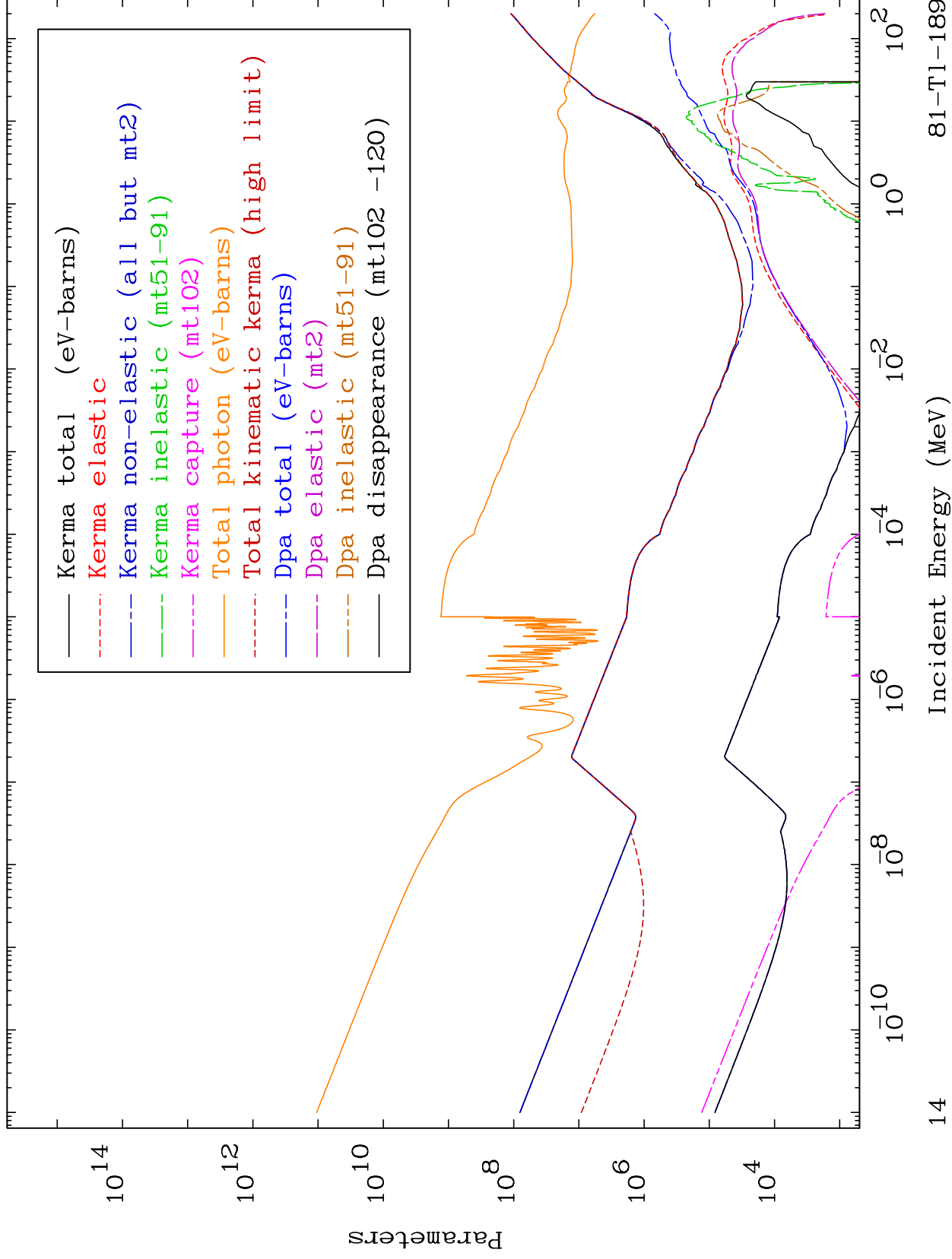
(n,α) Levels
293 Kelvin Cross Sections

81-Tl-189



13

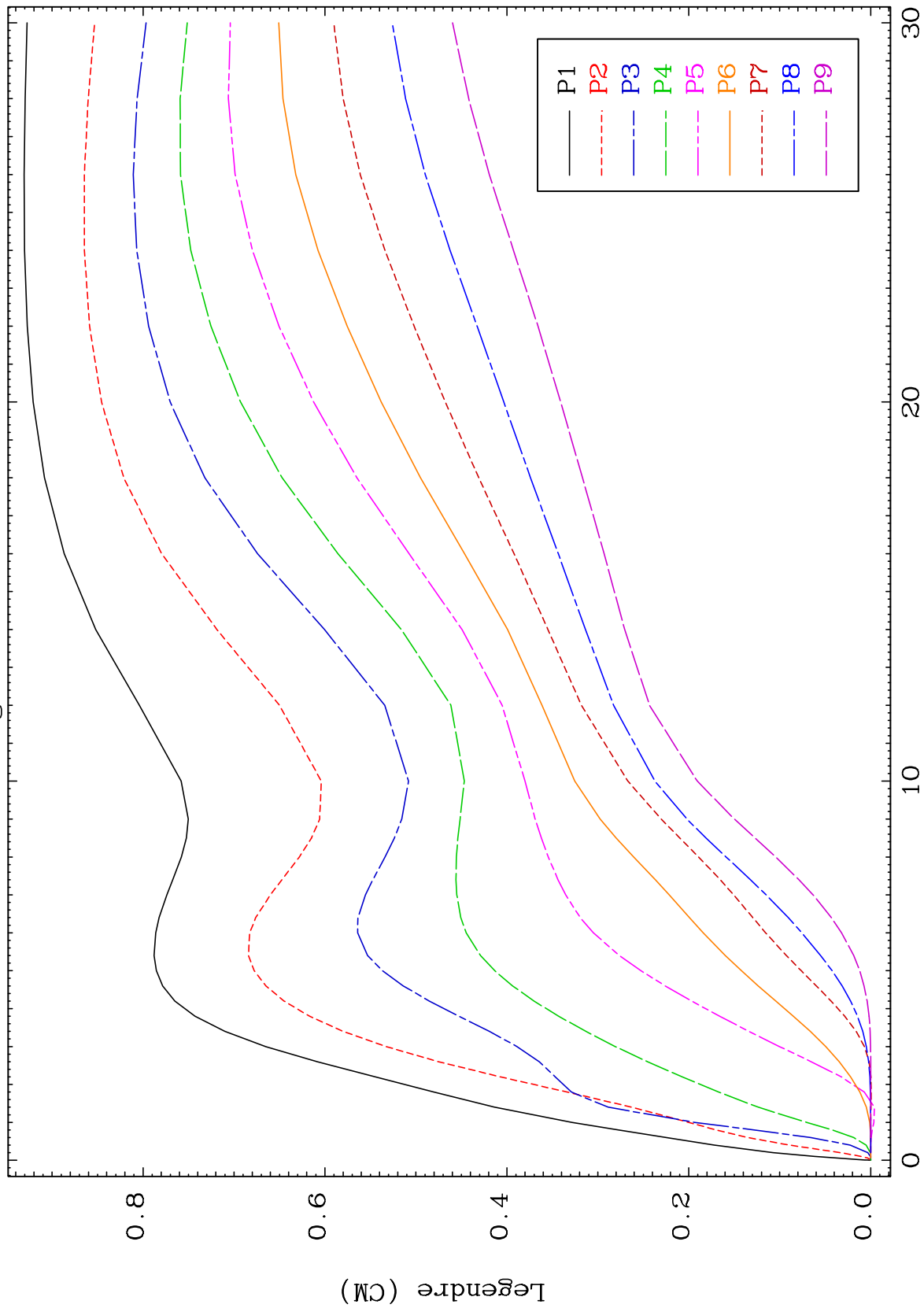
81-Tl-189



MAT 8083

Elastic Legendre Coefficients

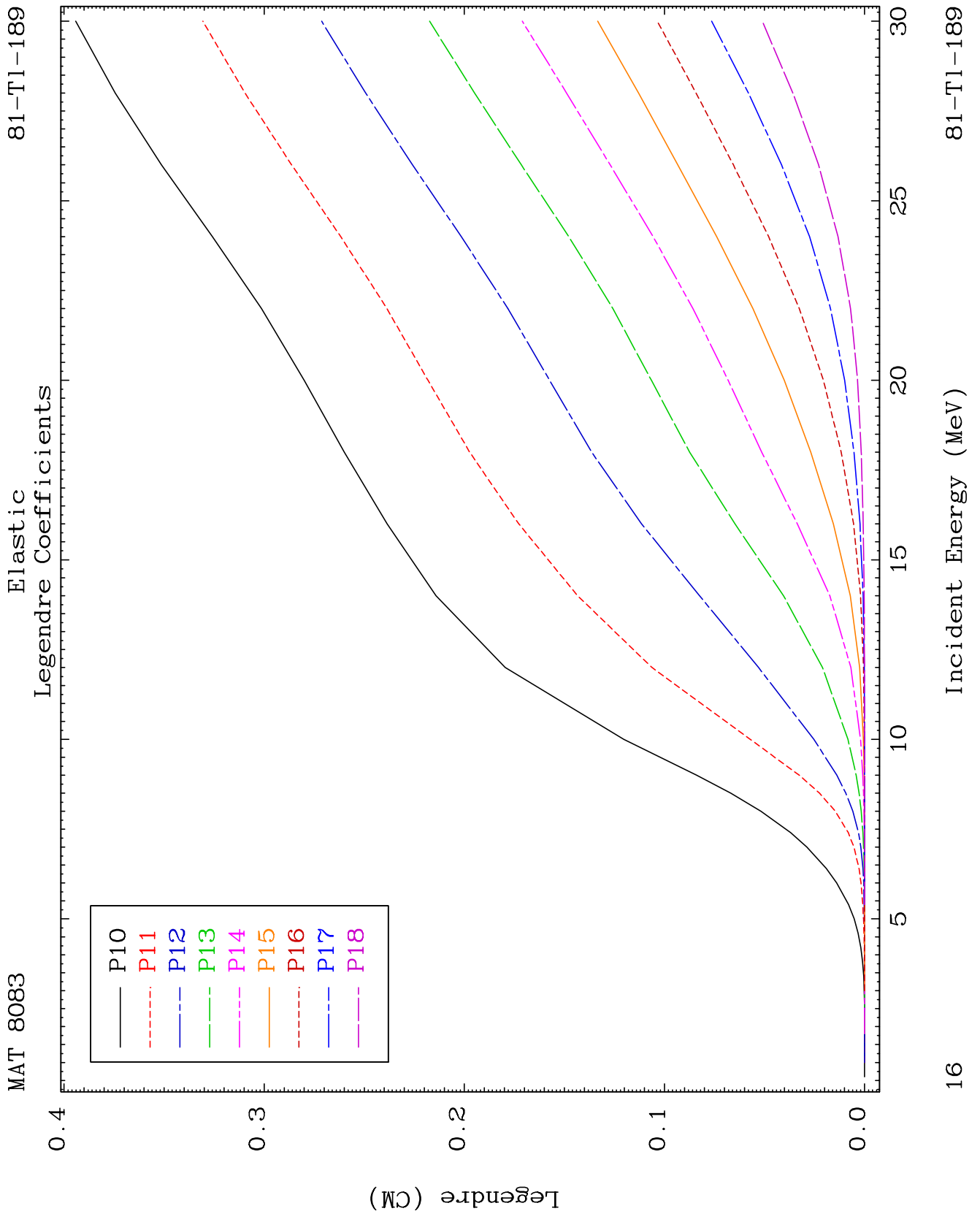
81-Tl-189



15

Incident Energy (MeV)

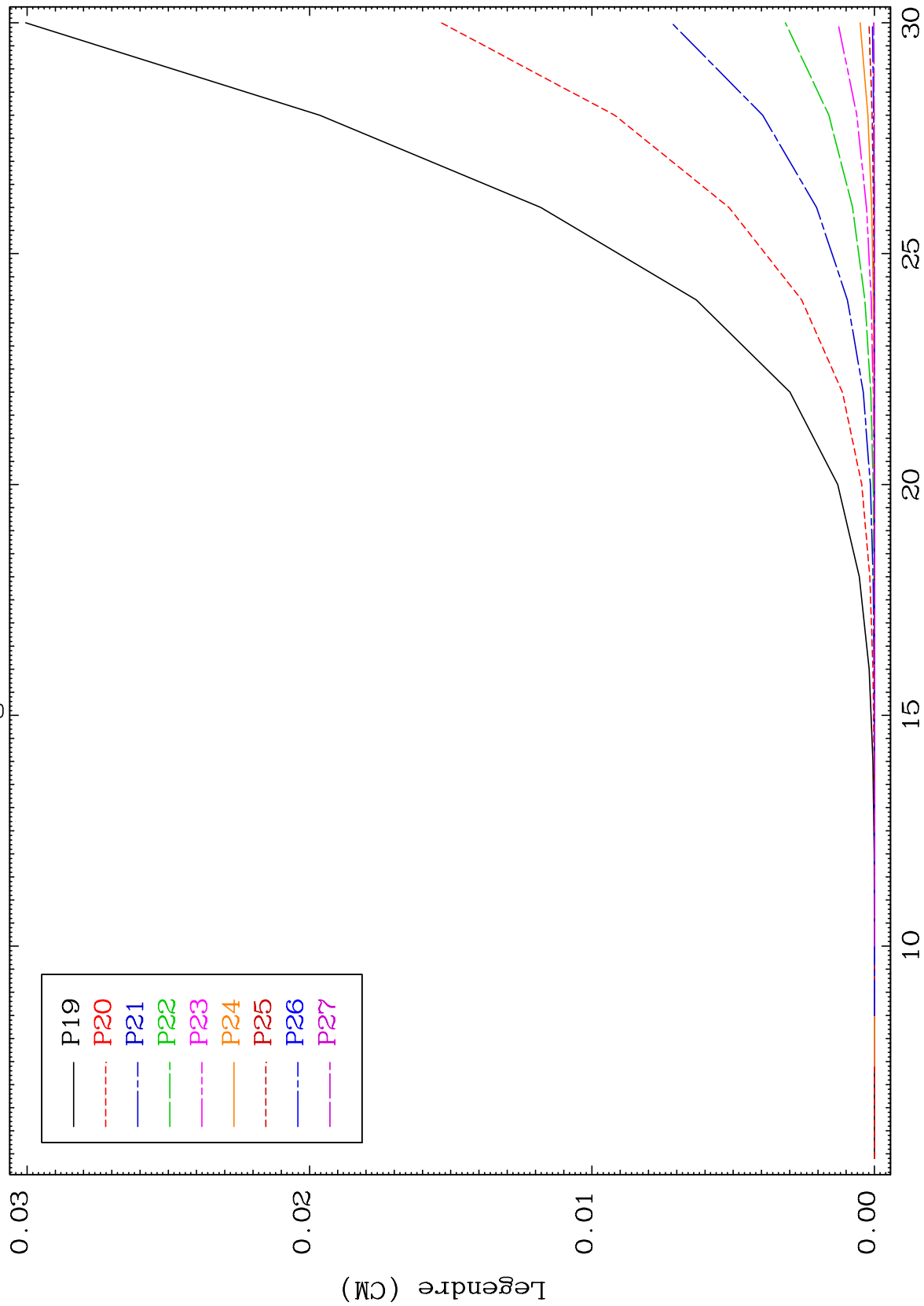
81-Tl-189



MAT 8083

Elastic
Legendre Coefficients

81-Tl-189



17

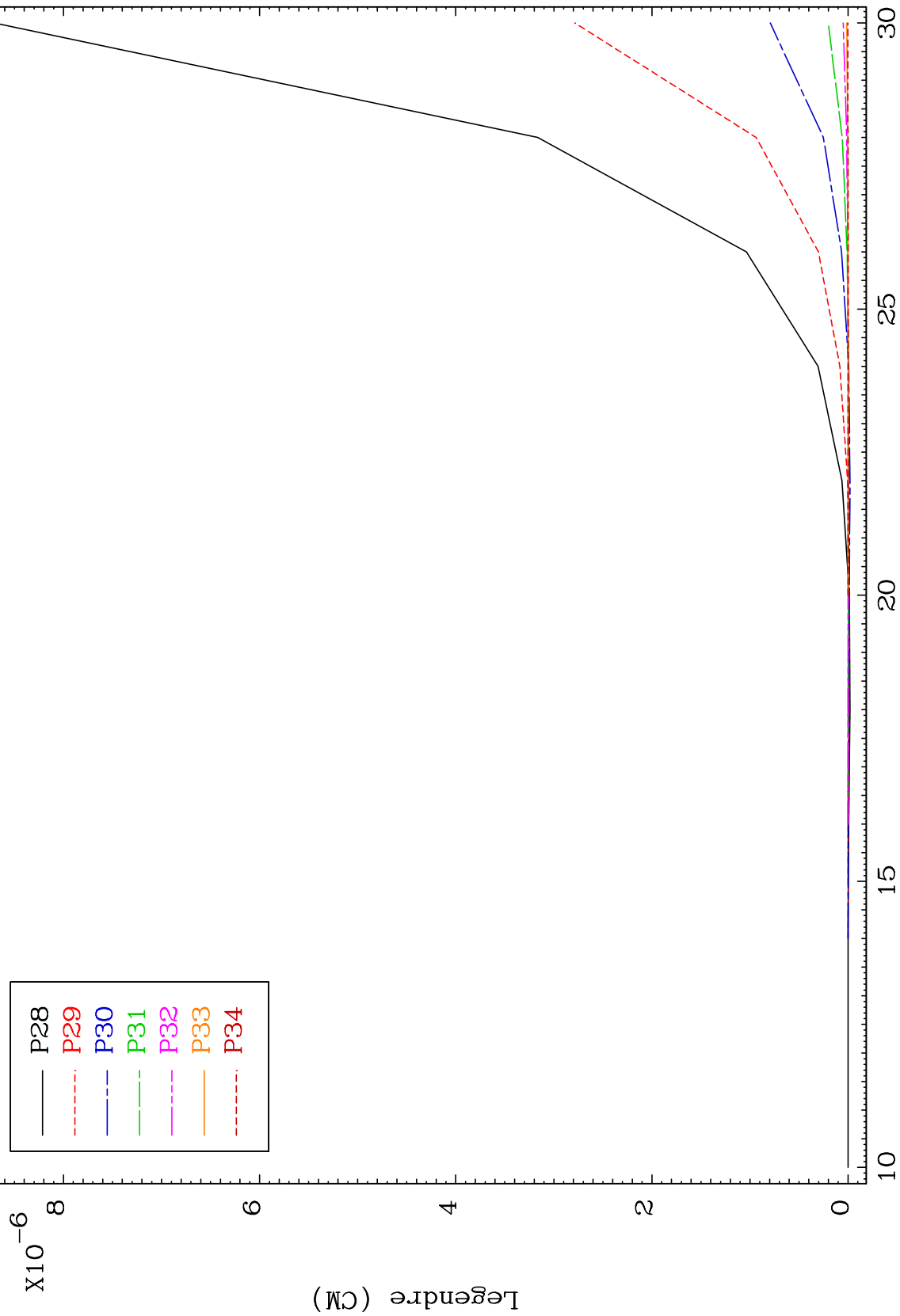
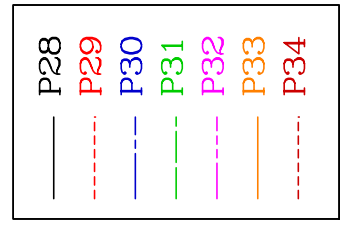
Incident Energy (MeV)

81-Tl-189

MAT 8083

Elastic Legendre Coefficients

81-Tl-189



18

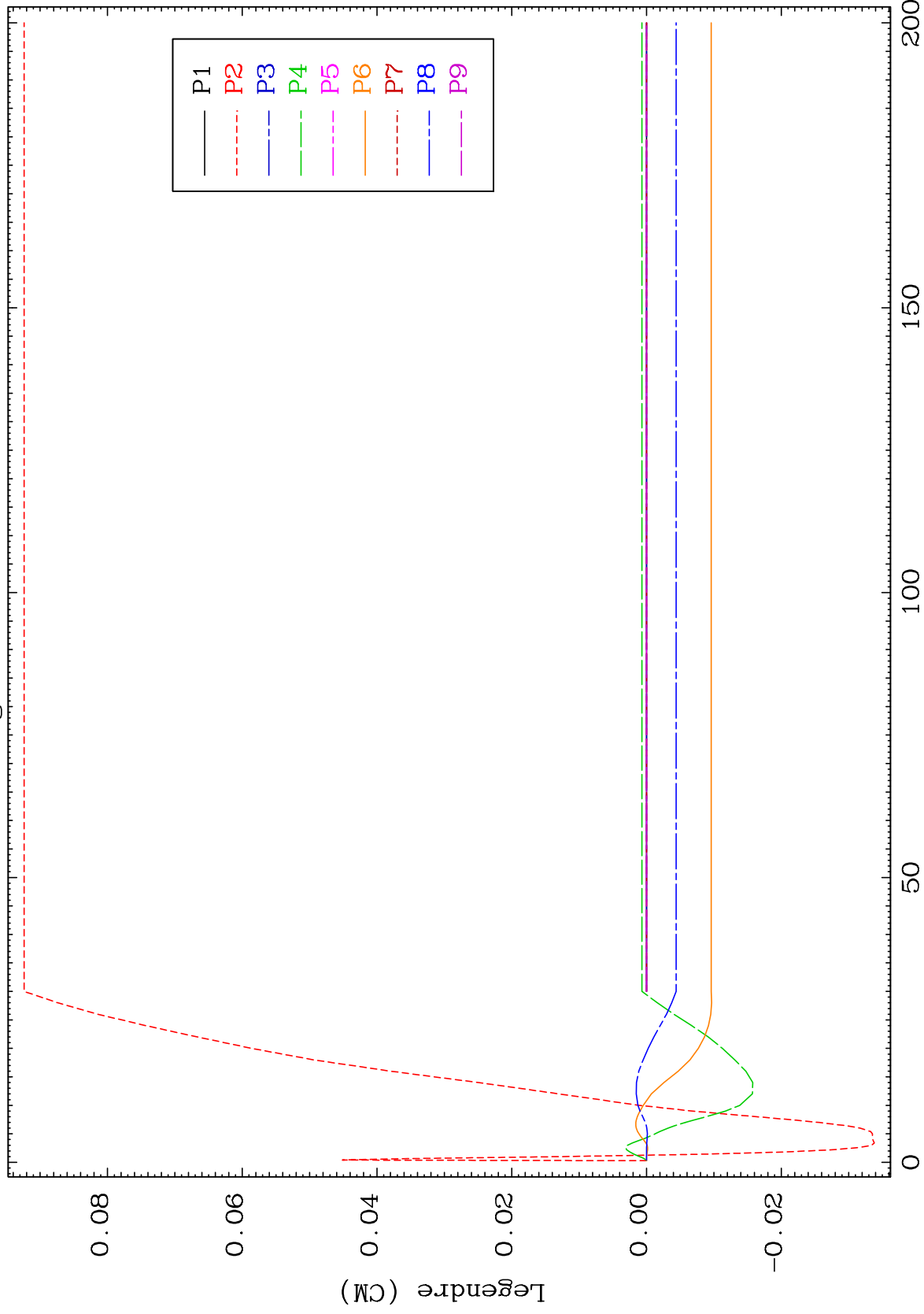
Incident Energy (MeV)

81-Tl-189

MAT 8083

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

81-Tl-189



19

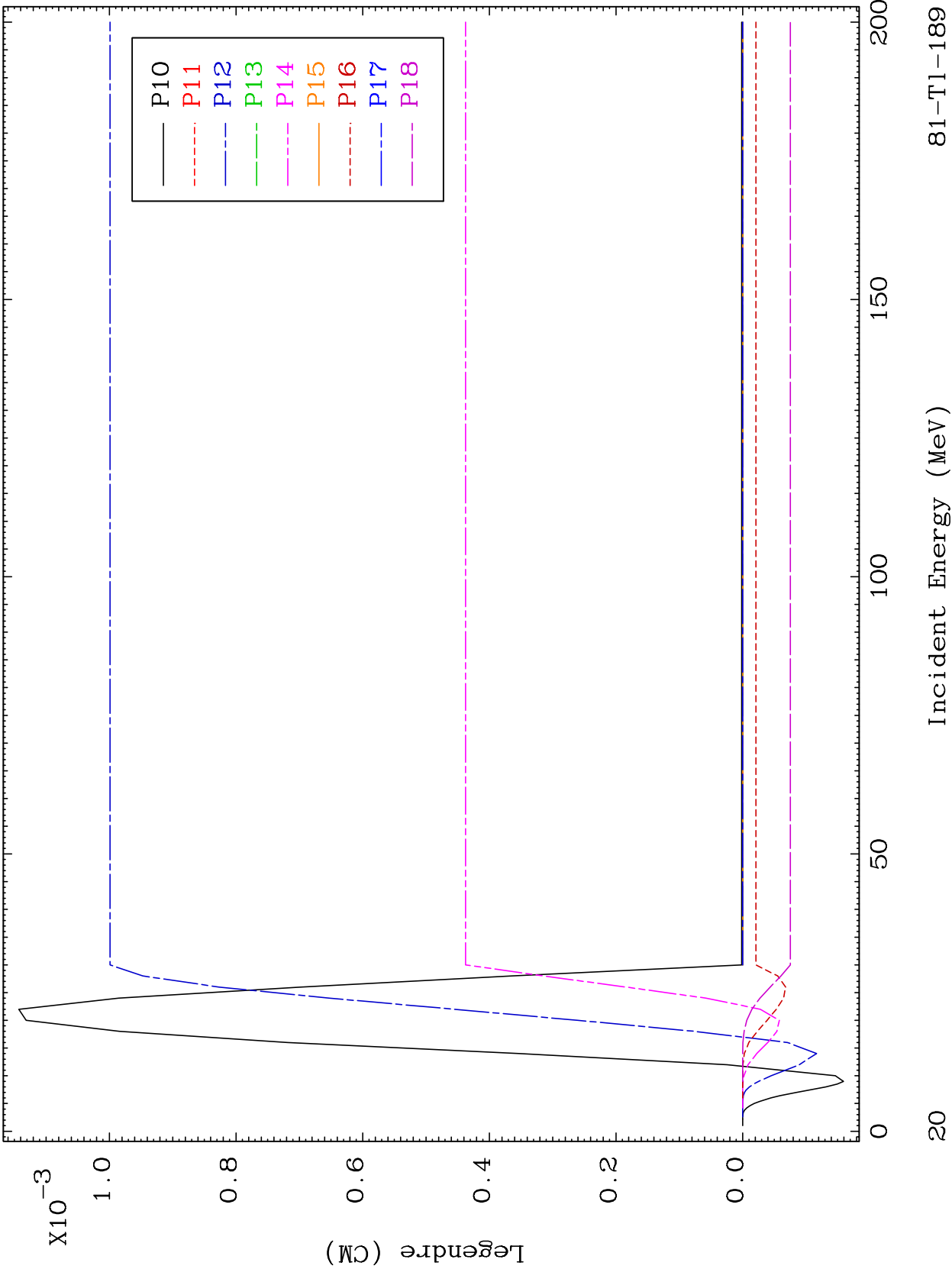
Incident Energy (MeV)

81-Tl-189

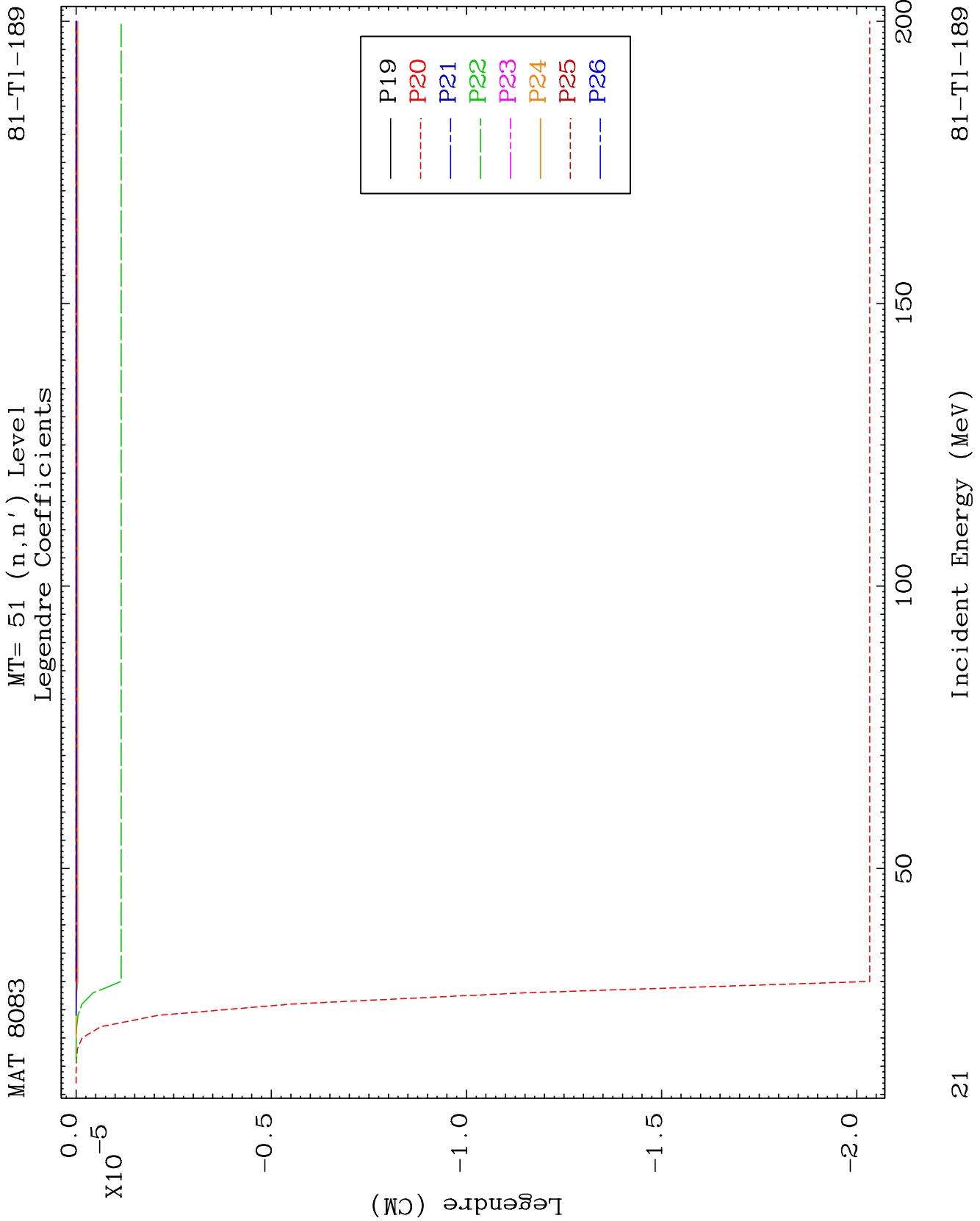
MAT 8083

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

81-Tl-189



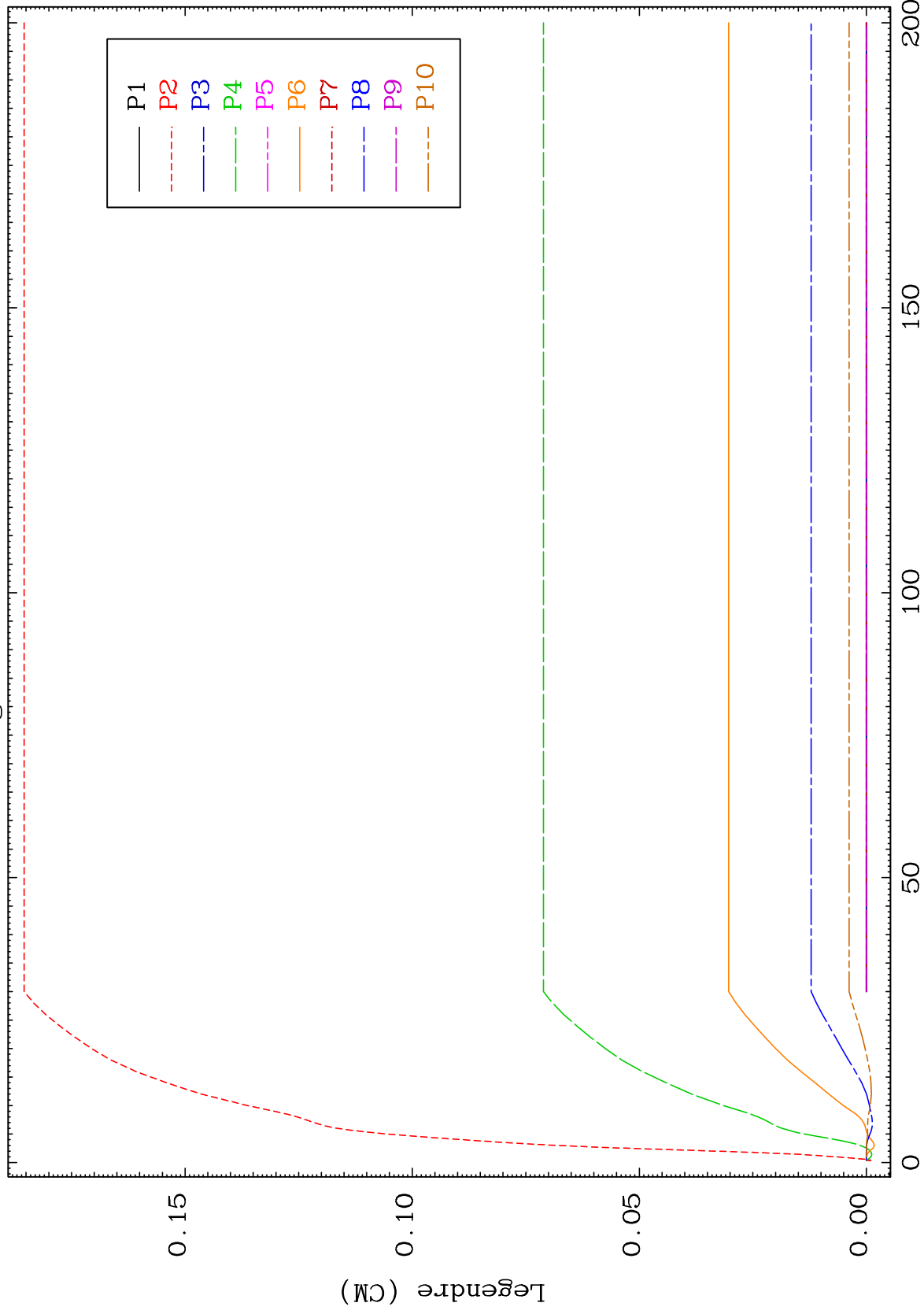
81-Tl-189



MAT 8083

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

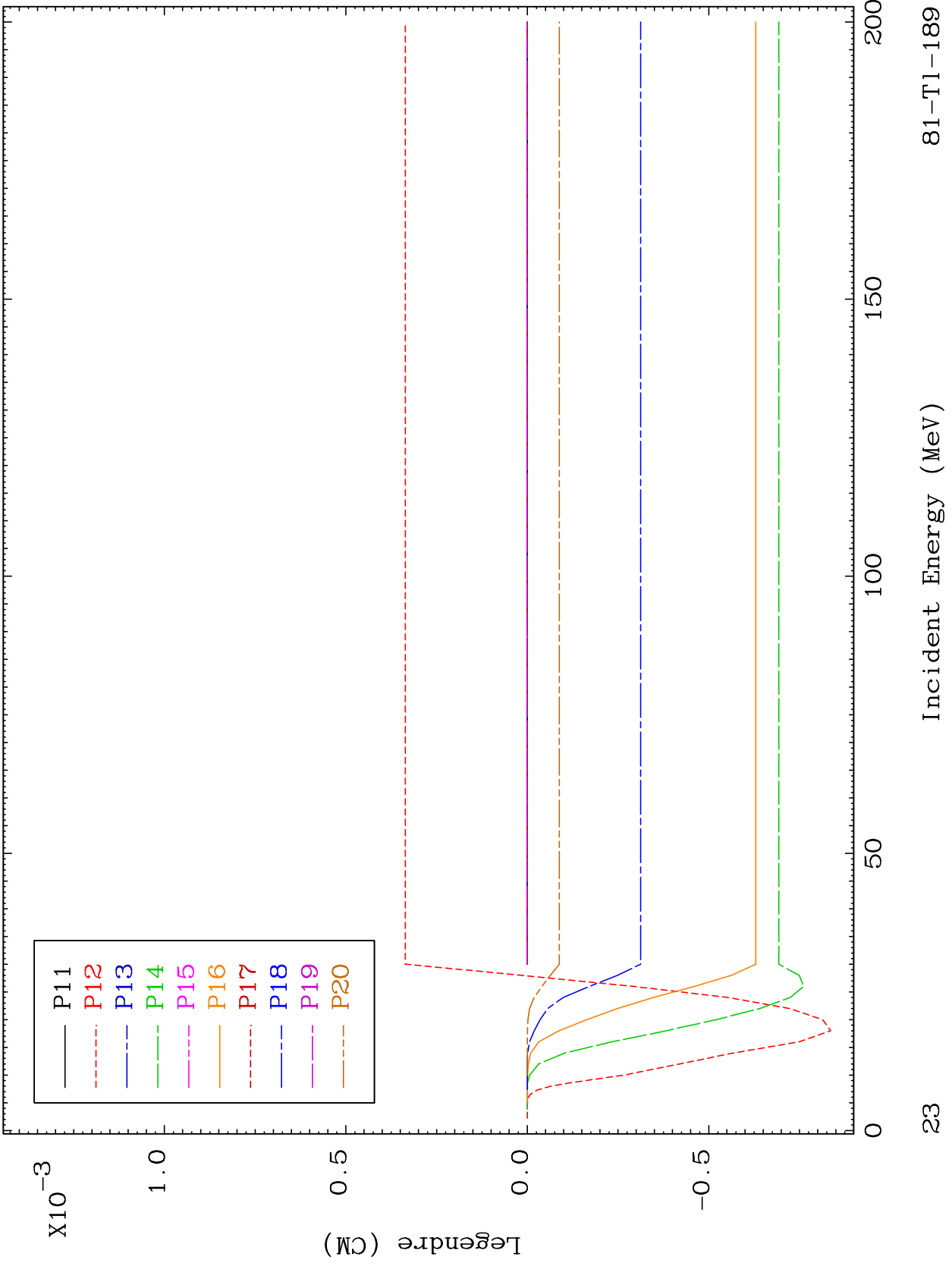
81-Tl-189

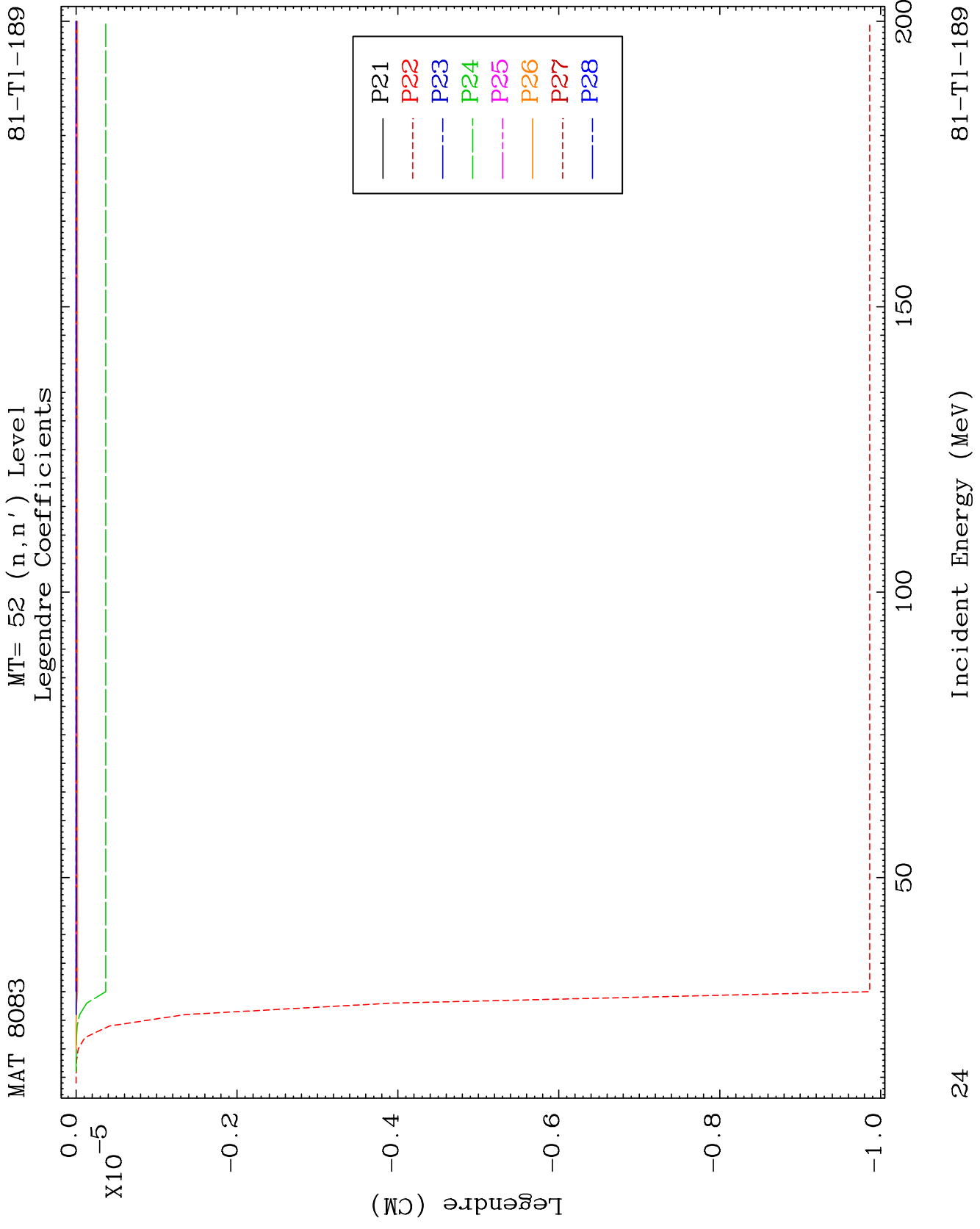


22

81-Tl-189

81-Tl-189

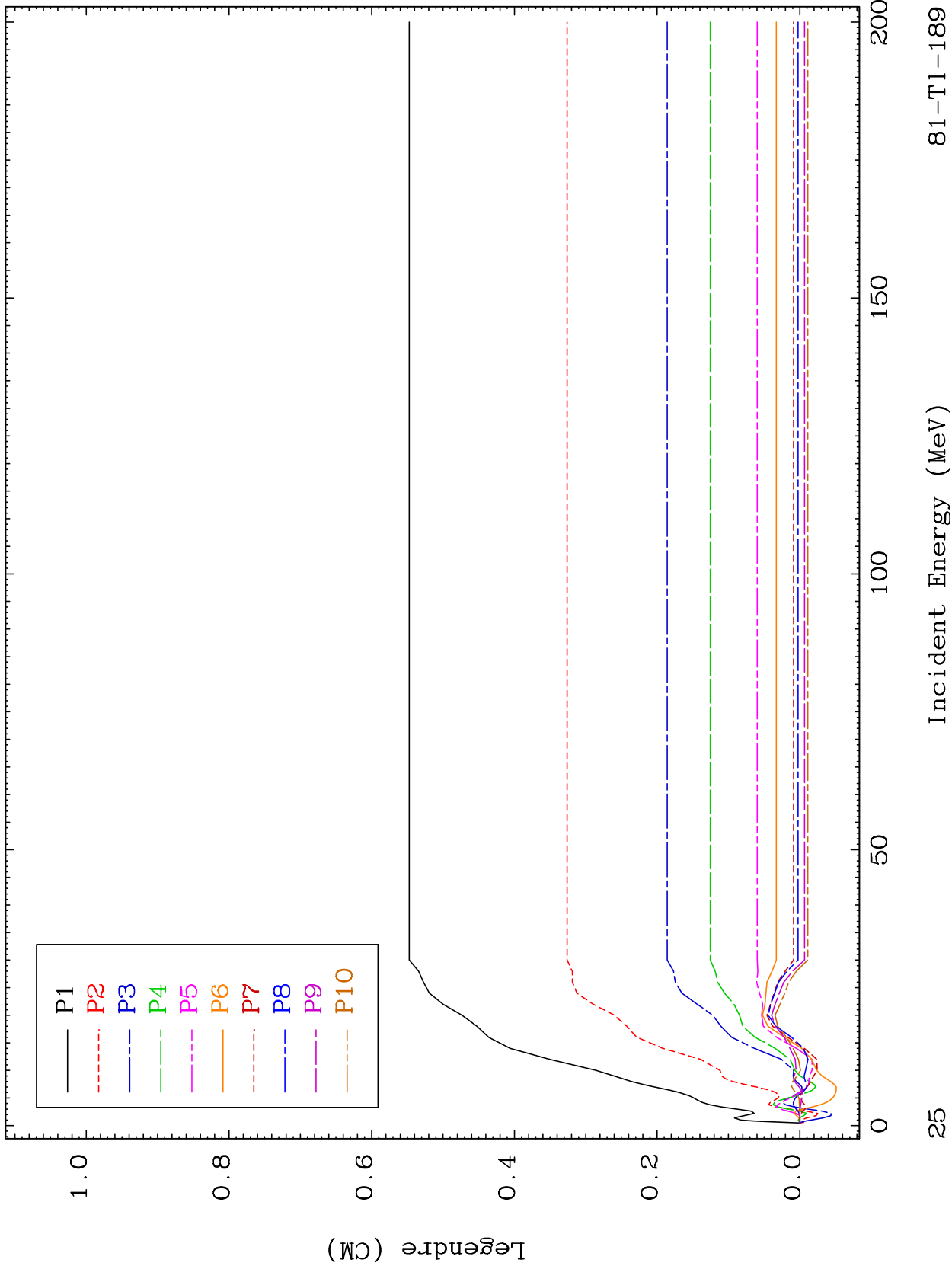




MAT 8083

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

81-Tl-189



81-Tl-189

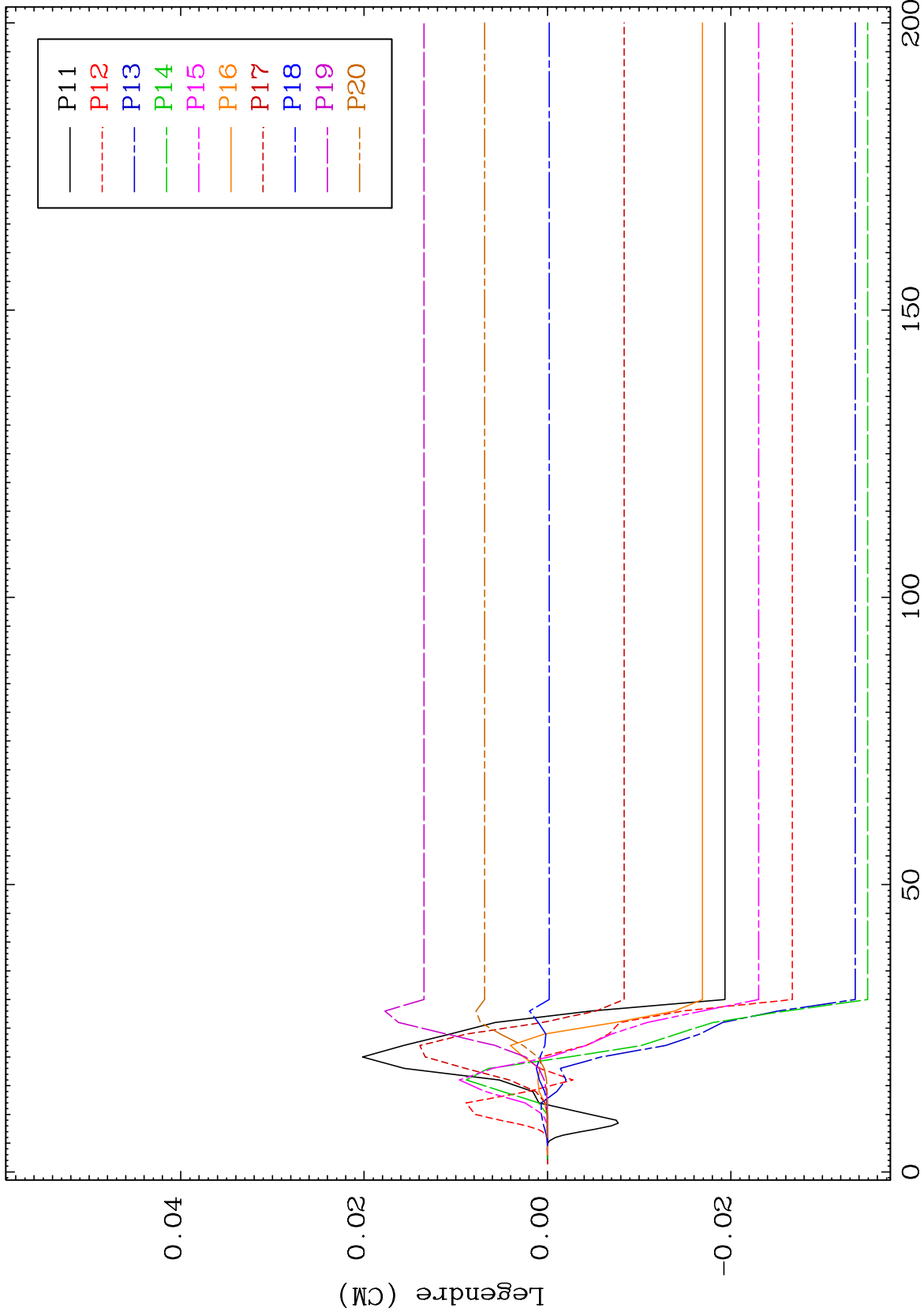
Incident Energy (MeV)

25

MAT 8083

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

81-Tl-189



26

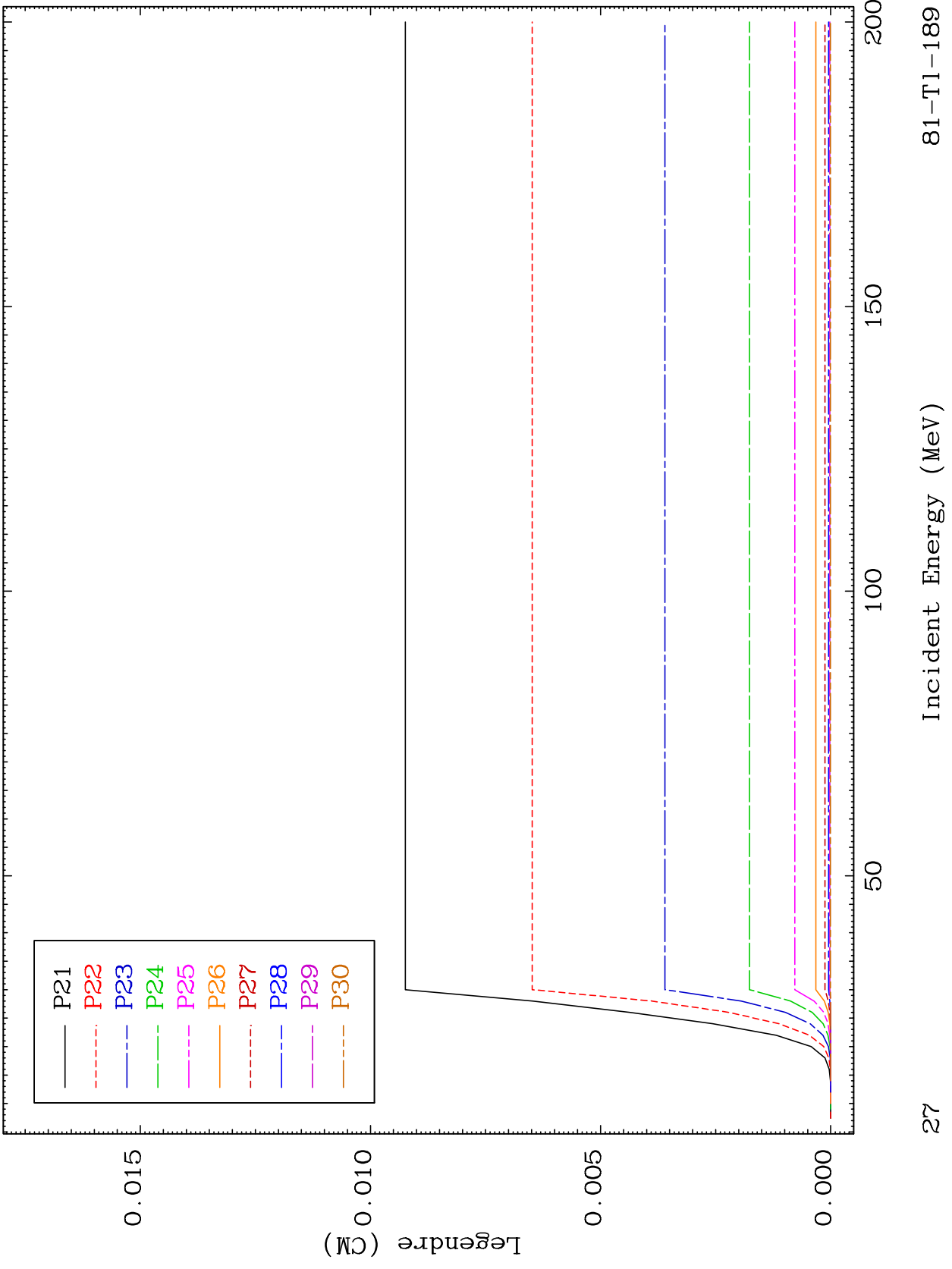
Incident Energy (MeV)

81-Tl-189

MAT 8083

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

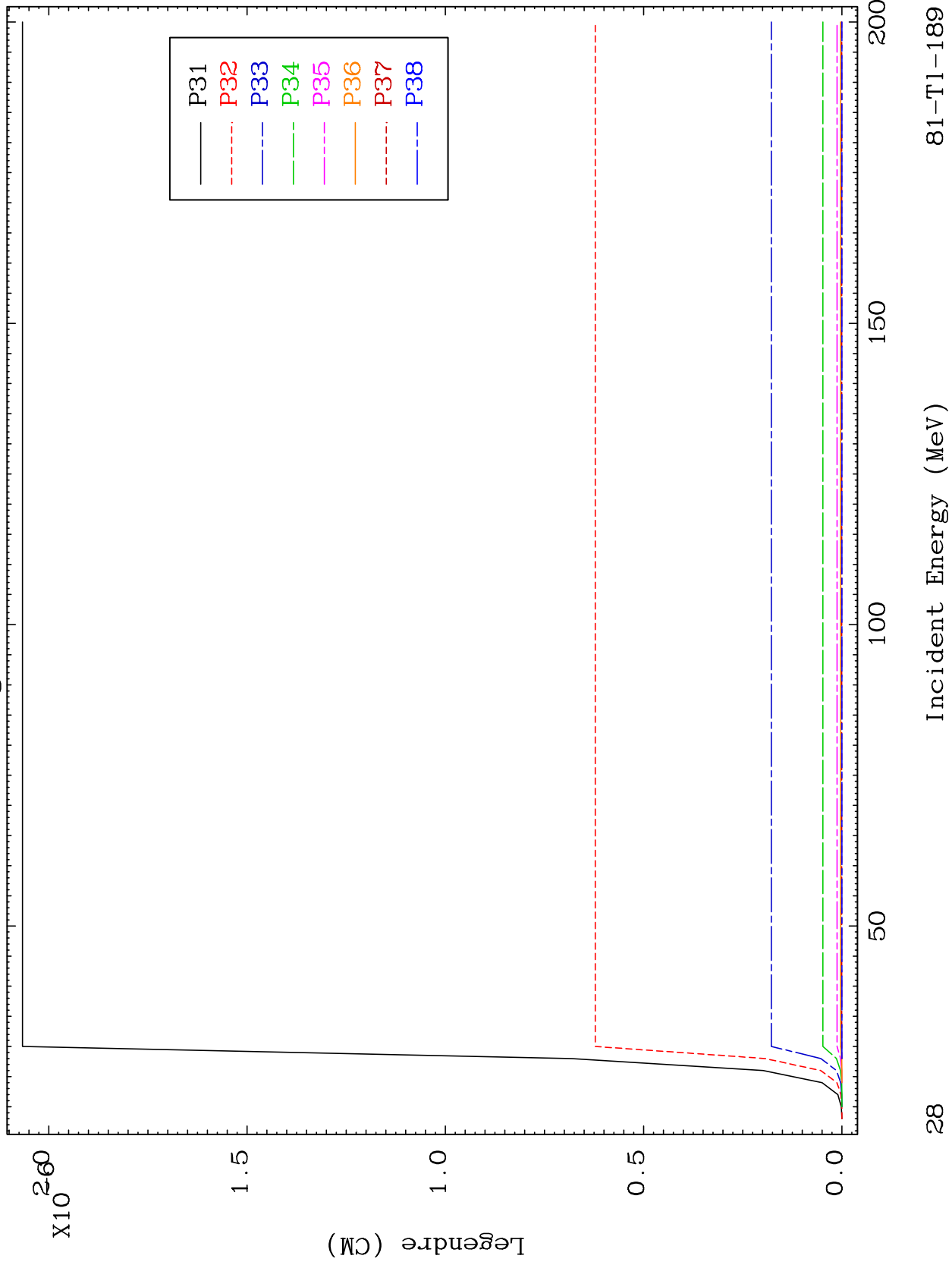
81-Tl-189



MAT 8083

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

81-Tl-189



28

Incident Energy (MeV)

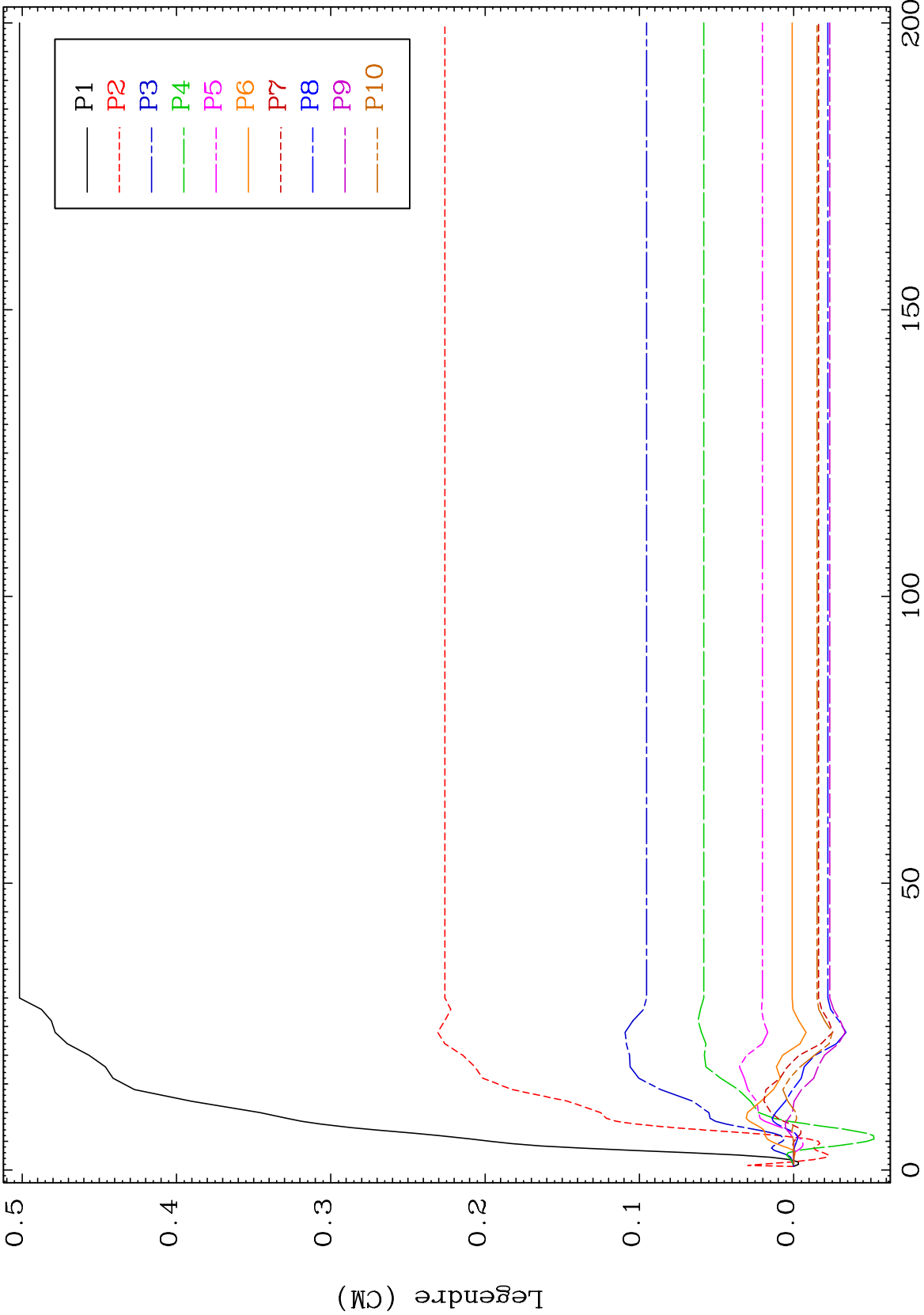
81-Tl-189

MAT 8083

MT= 54 (n,n') Level

81-Tl-189

Legendre Coefficients



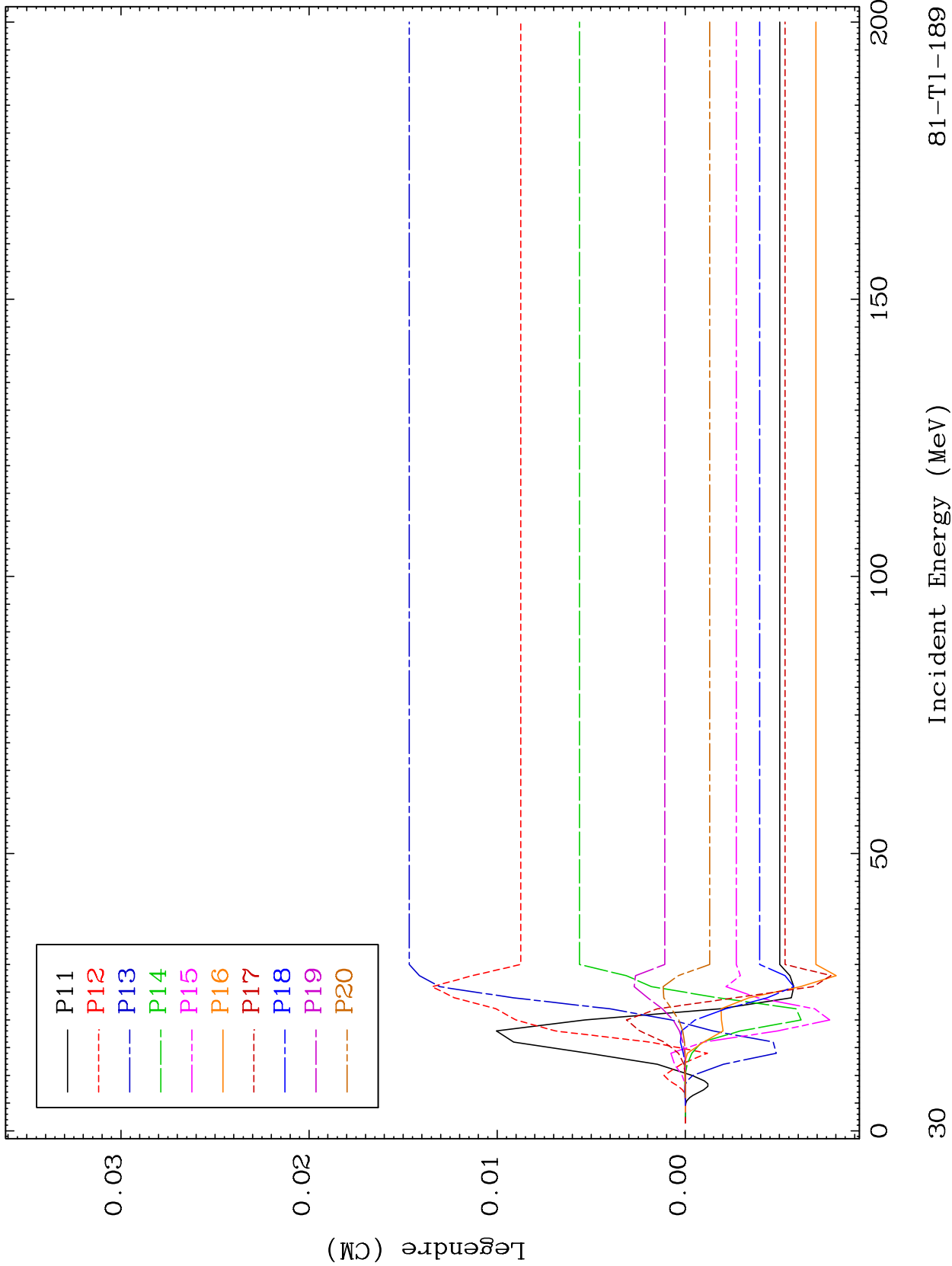
29

81-Tl-189

MAT 8083

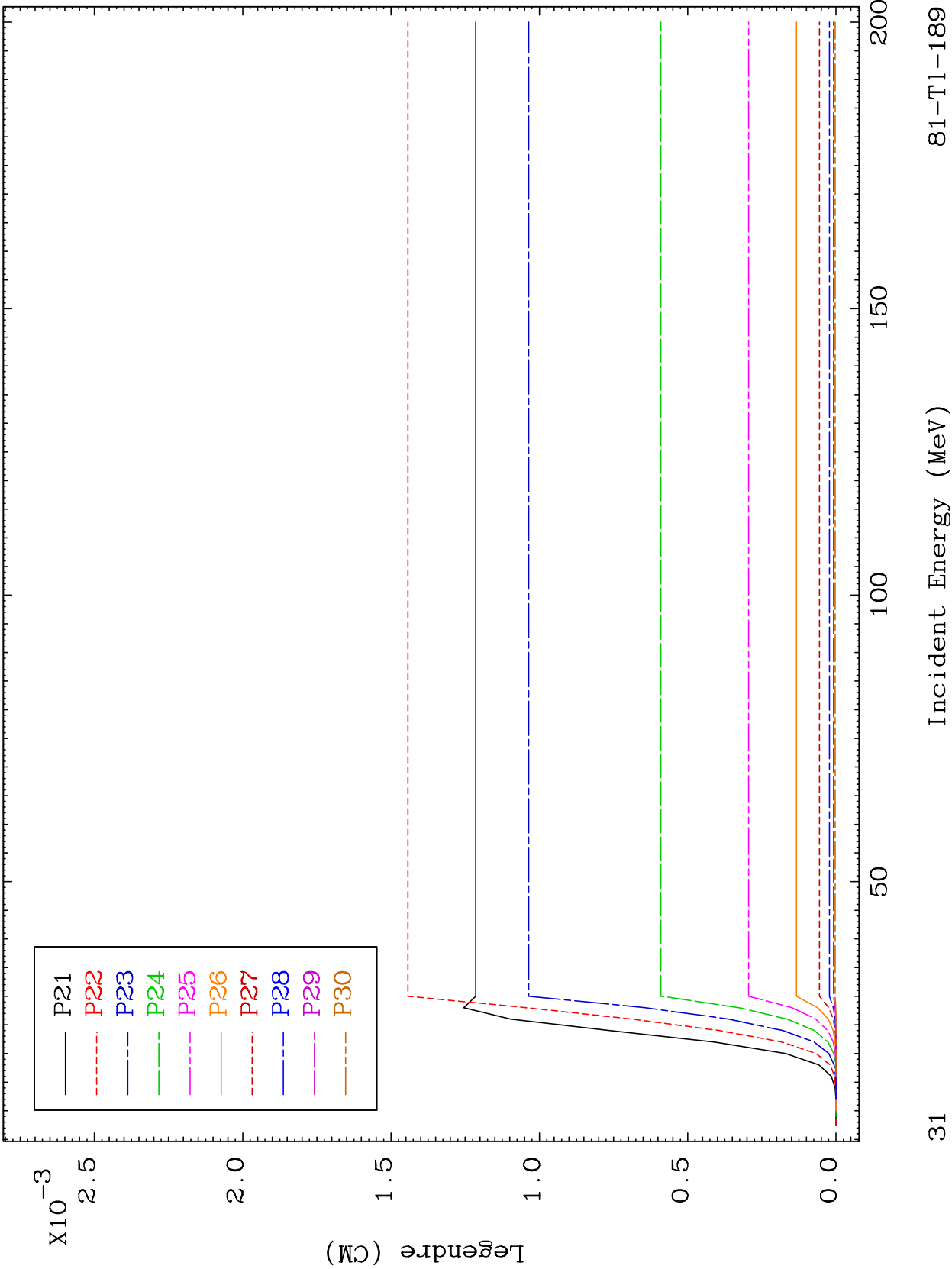
MT= 54 (n,n') Level
Legendre Coefficients

81-Tl-189



81-Tl-189

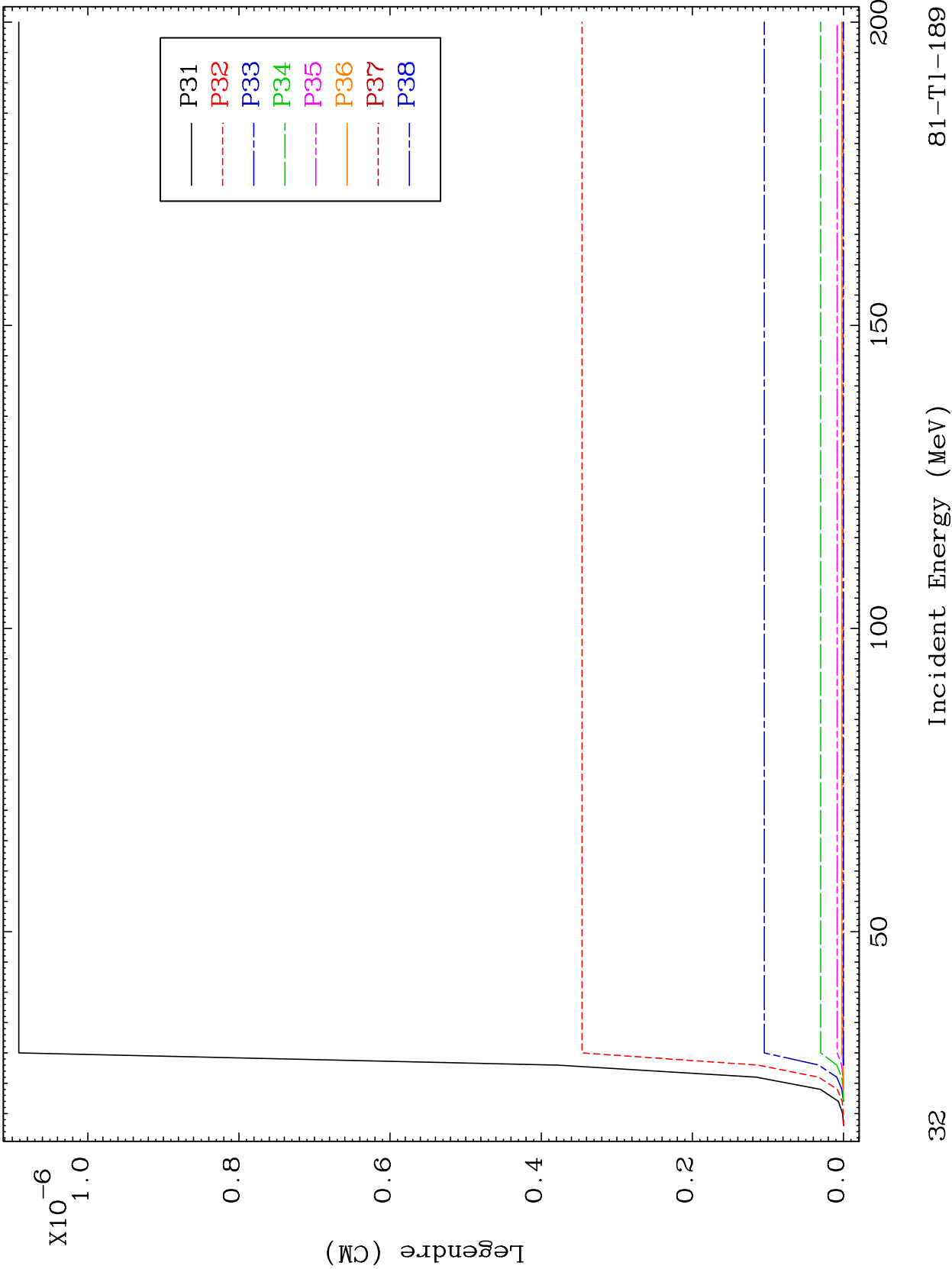
Incident Energy (MeV)



MAT 8083

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

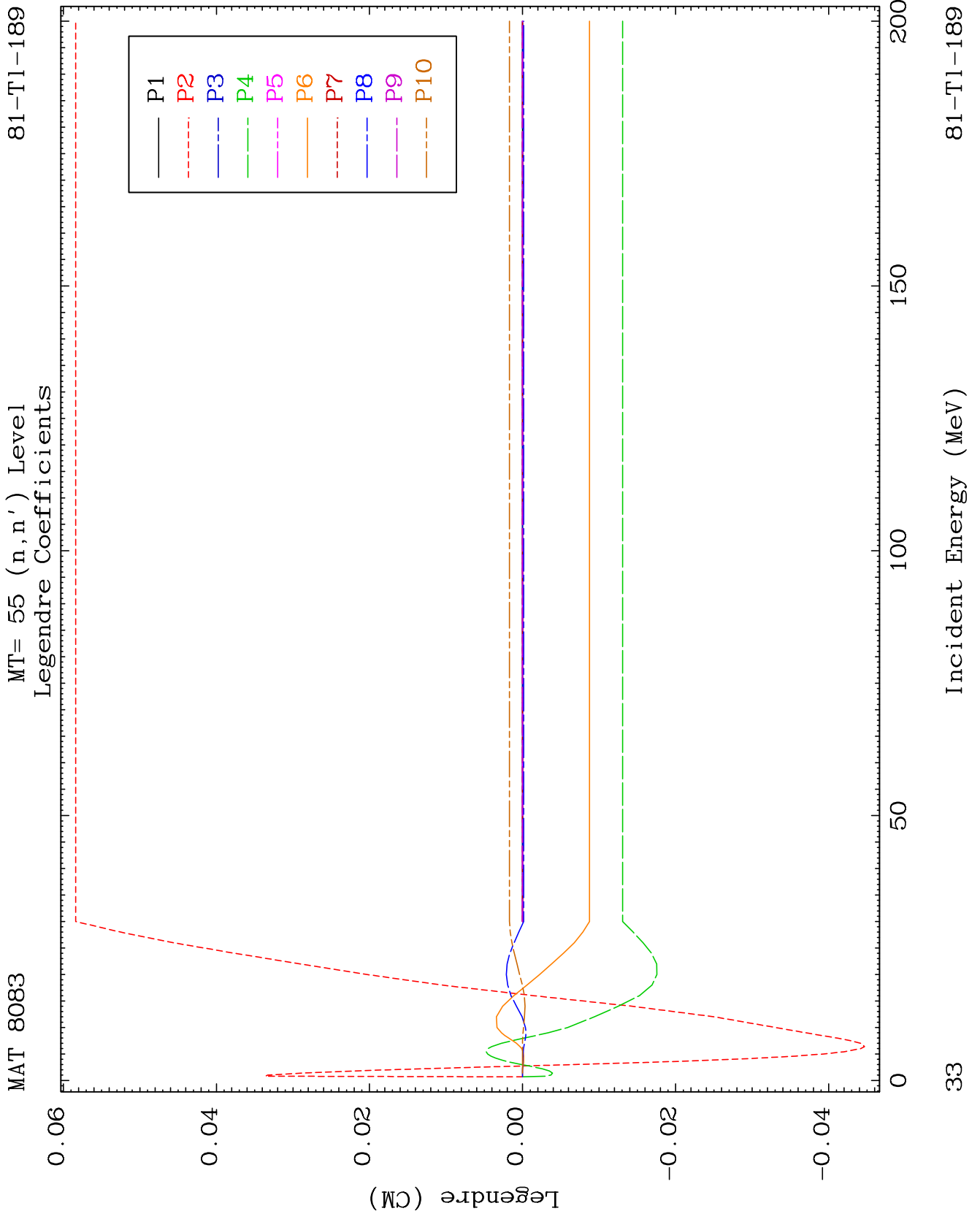
81-Tl-189



32

Incident Energy (MeV)

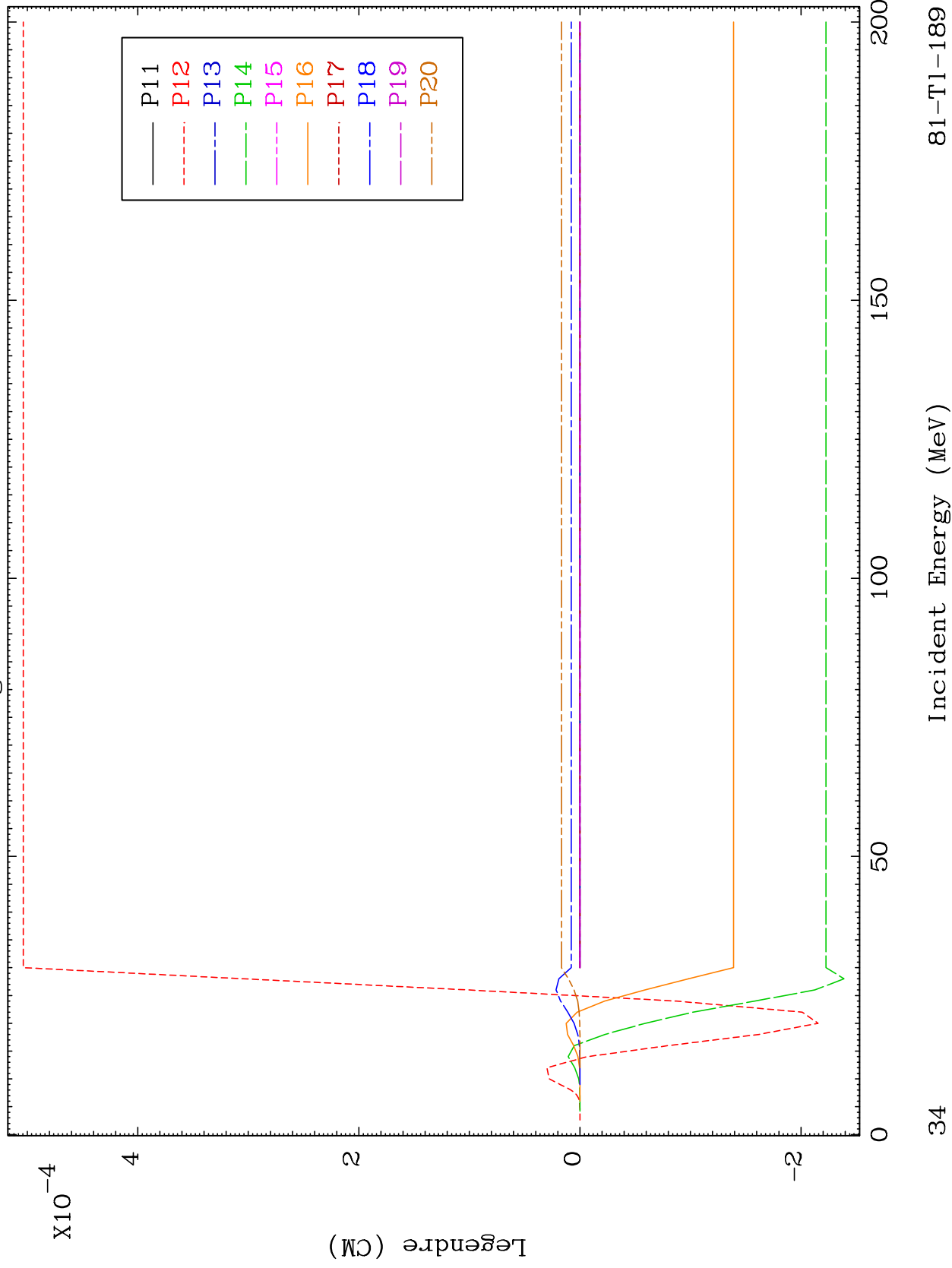
81-Tl-189



MAT 8083

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

81-Tl-189



34

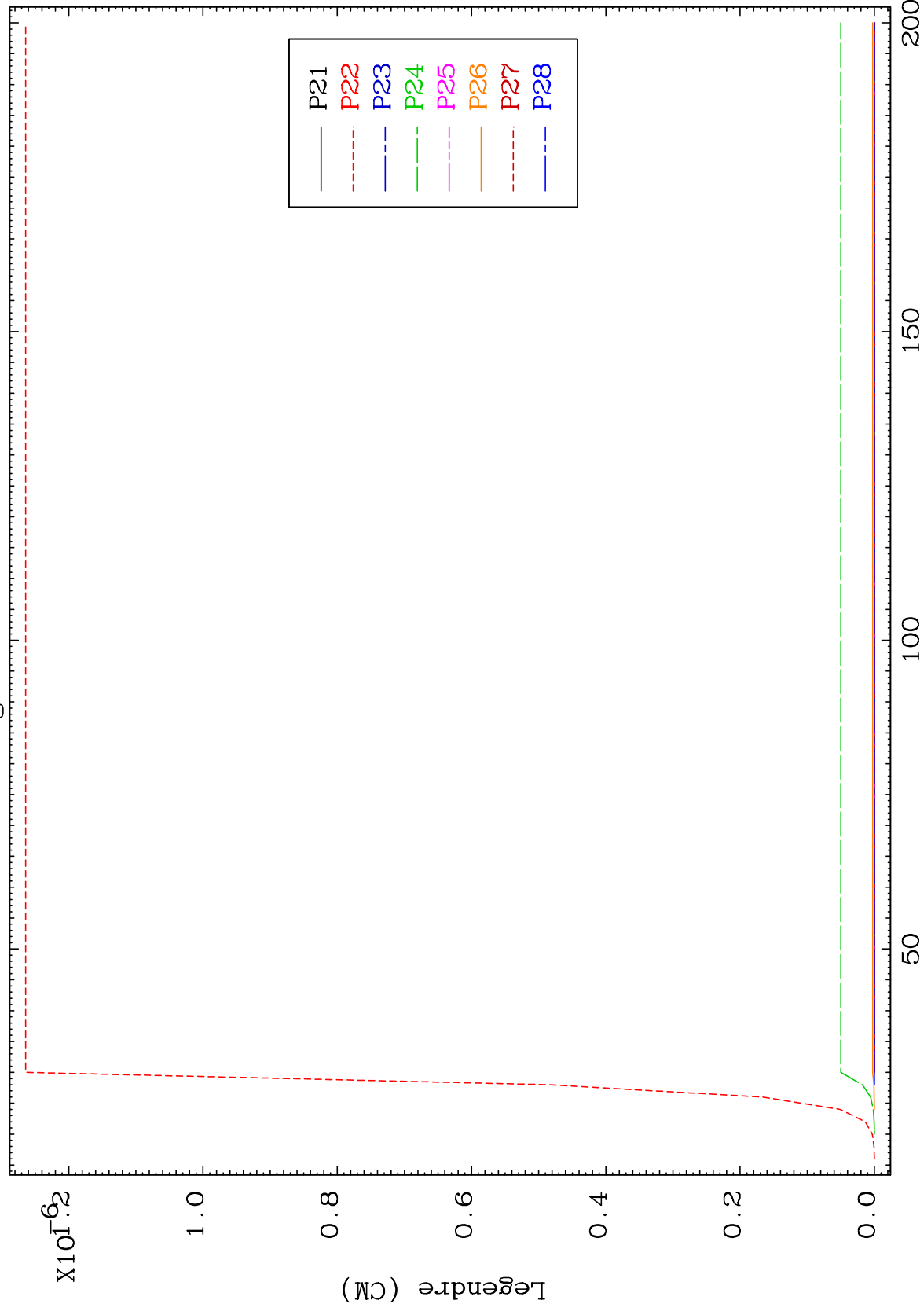
Incident Energy (MeV)

81-Tl-189

MAT 8083

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

81-Tl-189



35

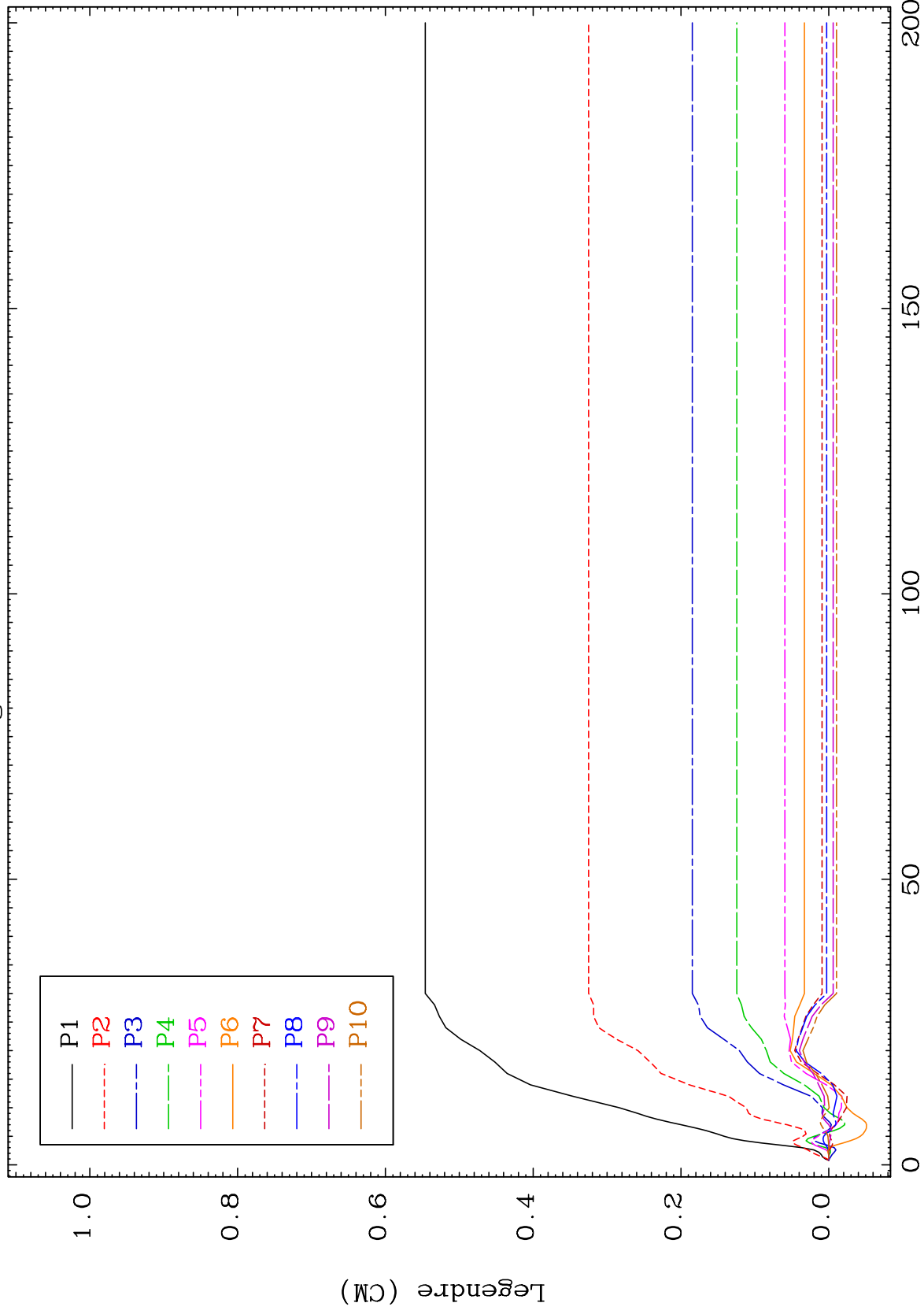
Incident Energy (MeV)

81-Tl-189

MAT 8083

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

81-Tl-189



36

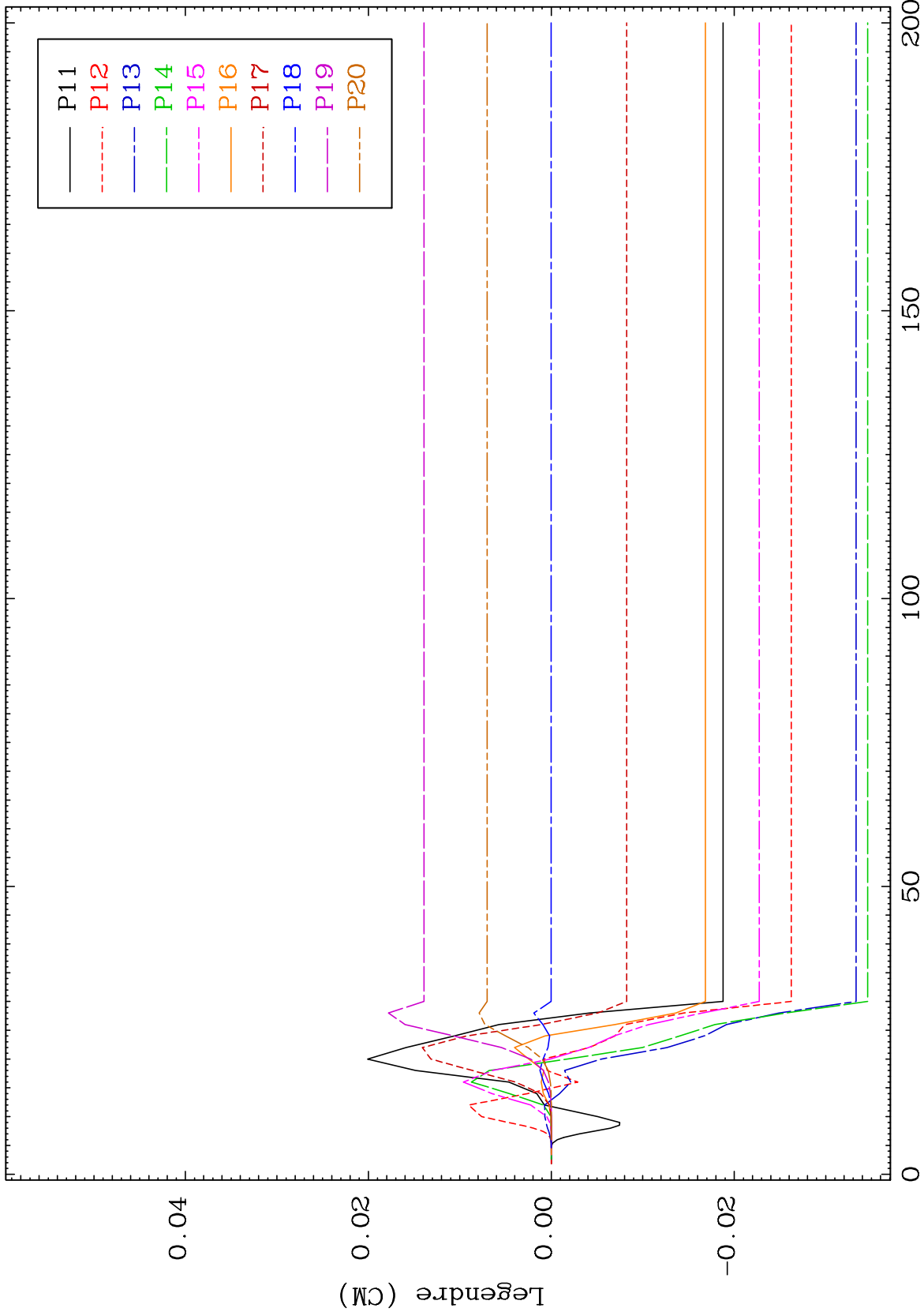
Incident Energy (MeV)

81-Tl-189

MAT 8083

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

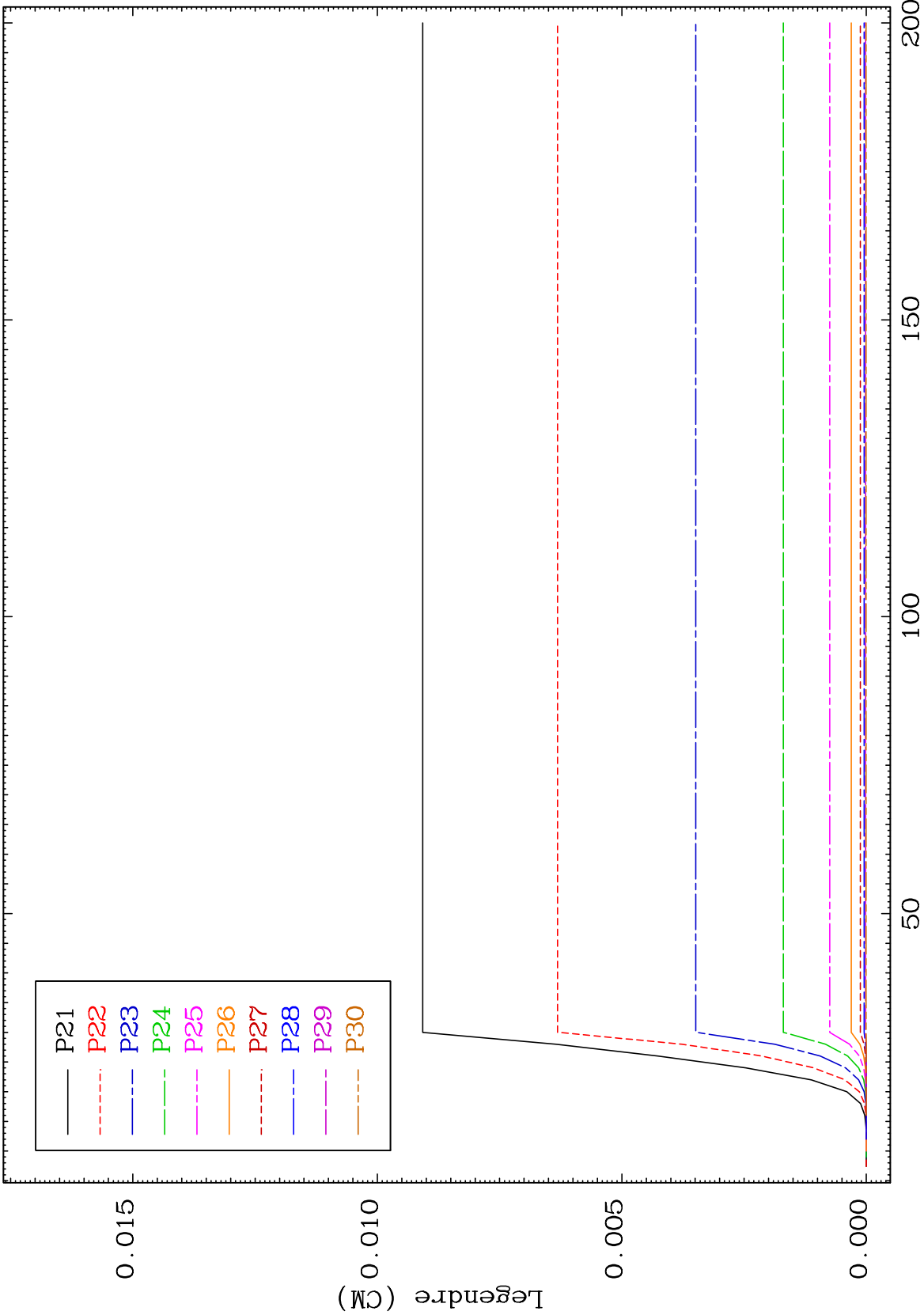
81-Tl-189



37

Incident Energy (MeV)

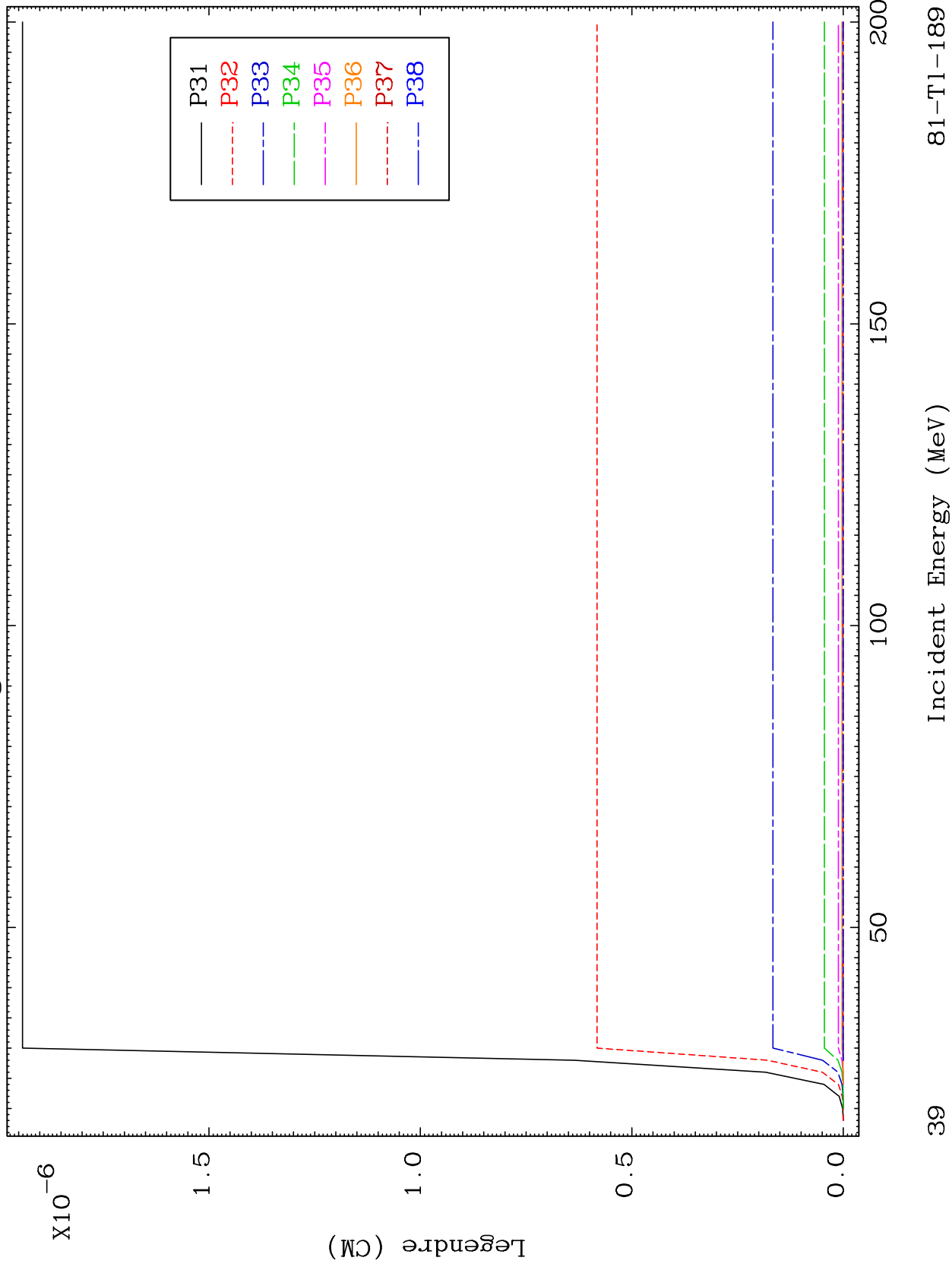
81-Tl-189



MAT 8083

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

81-Tl-189



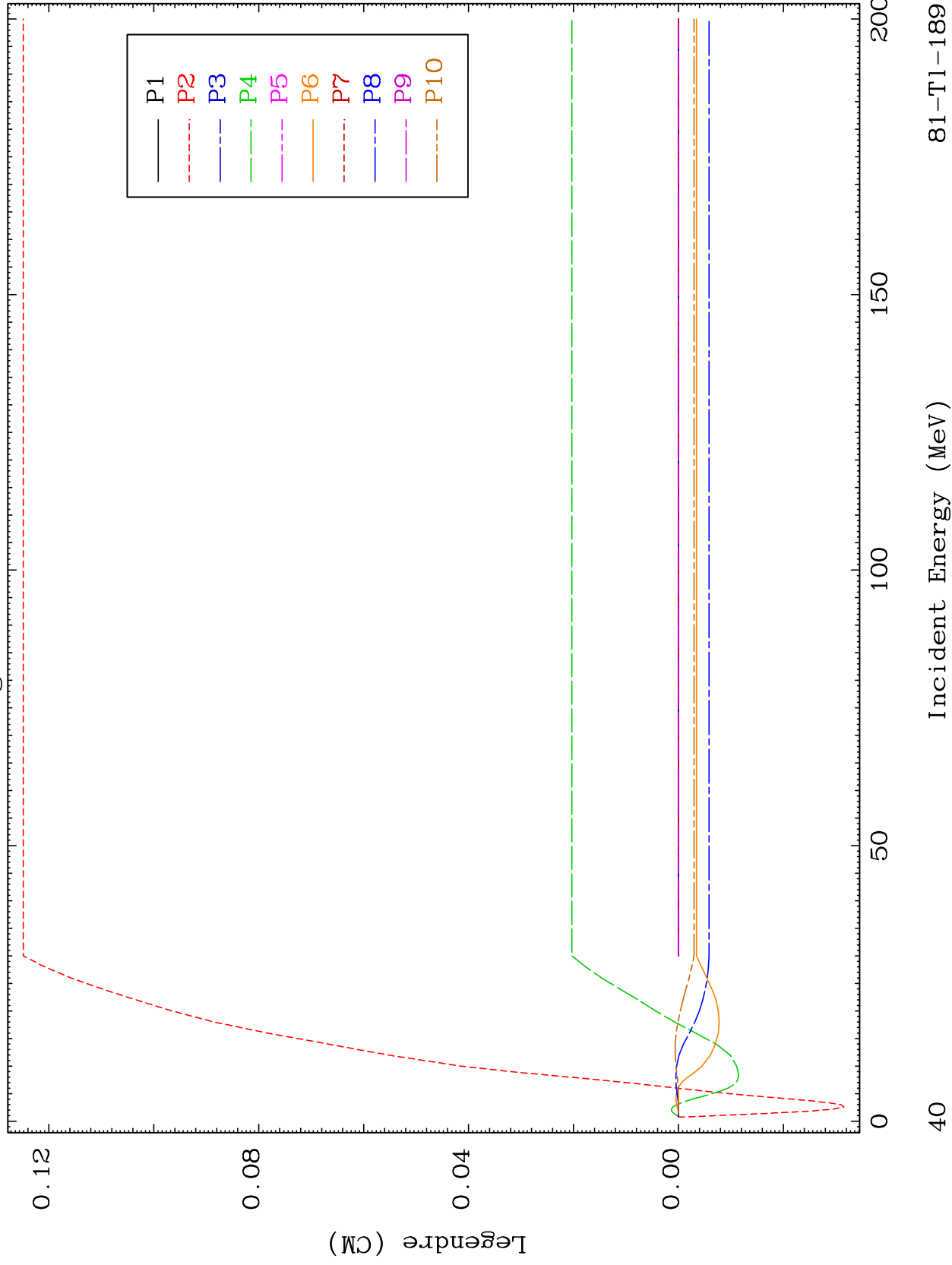
39

81-Tl-189

MAT 8083

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

81-Tl-189



81-Tl-189

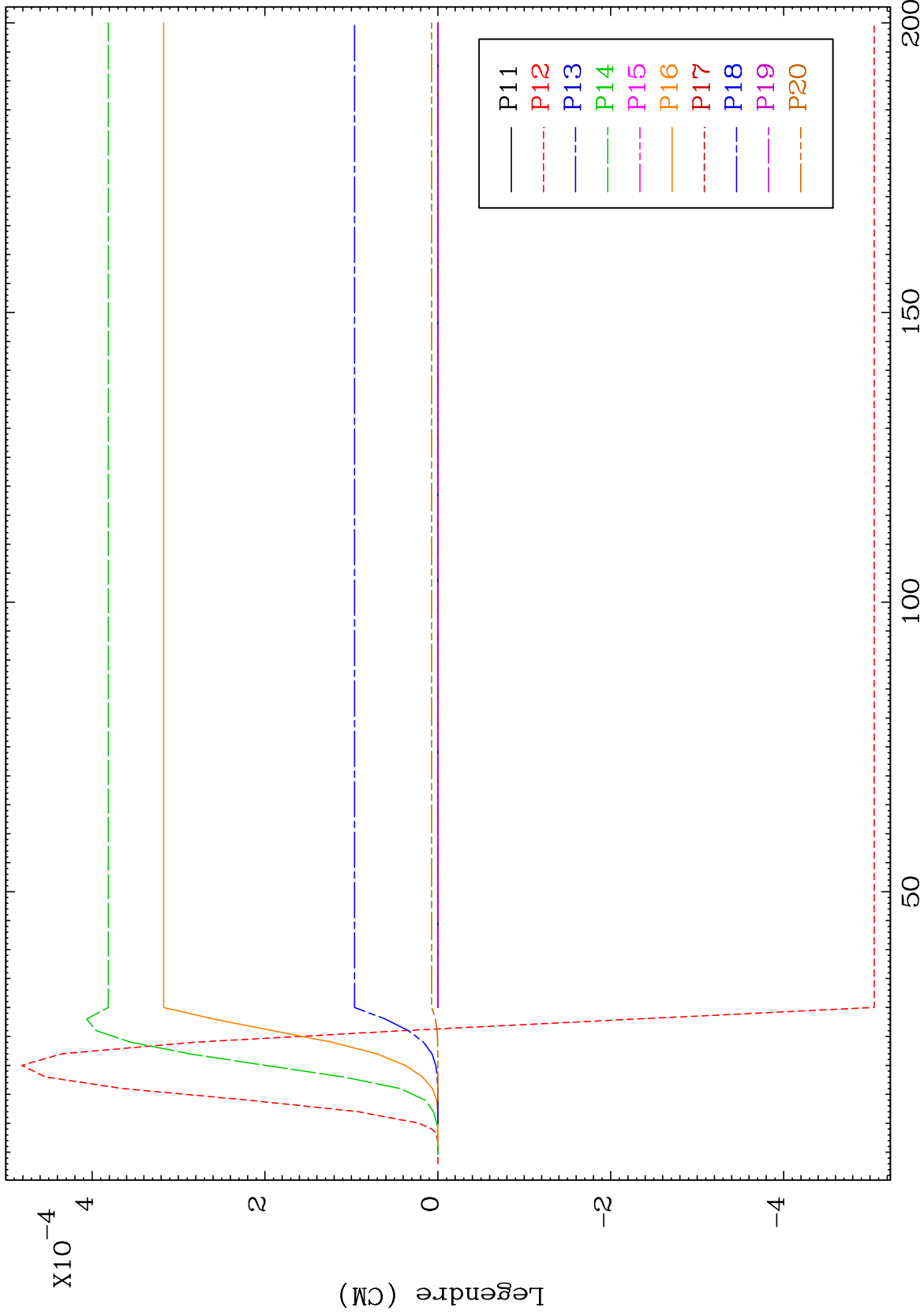
Incident Energy (MeV)

40

MAT 8083

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

81-Tl-189



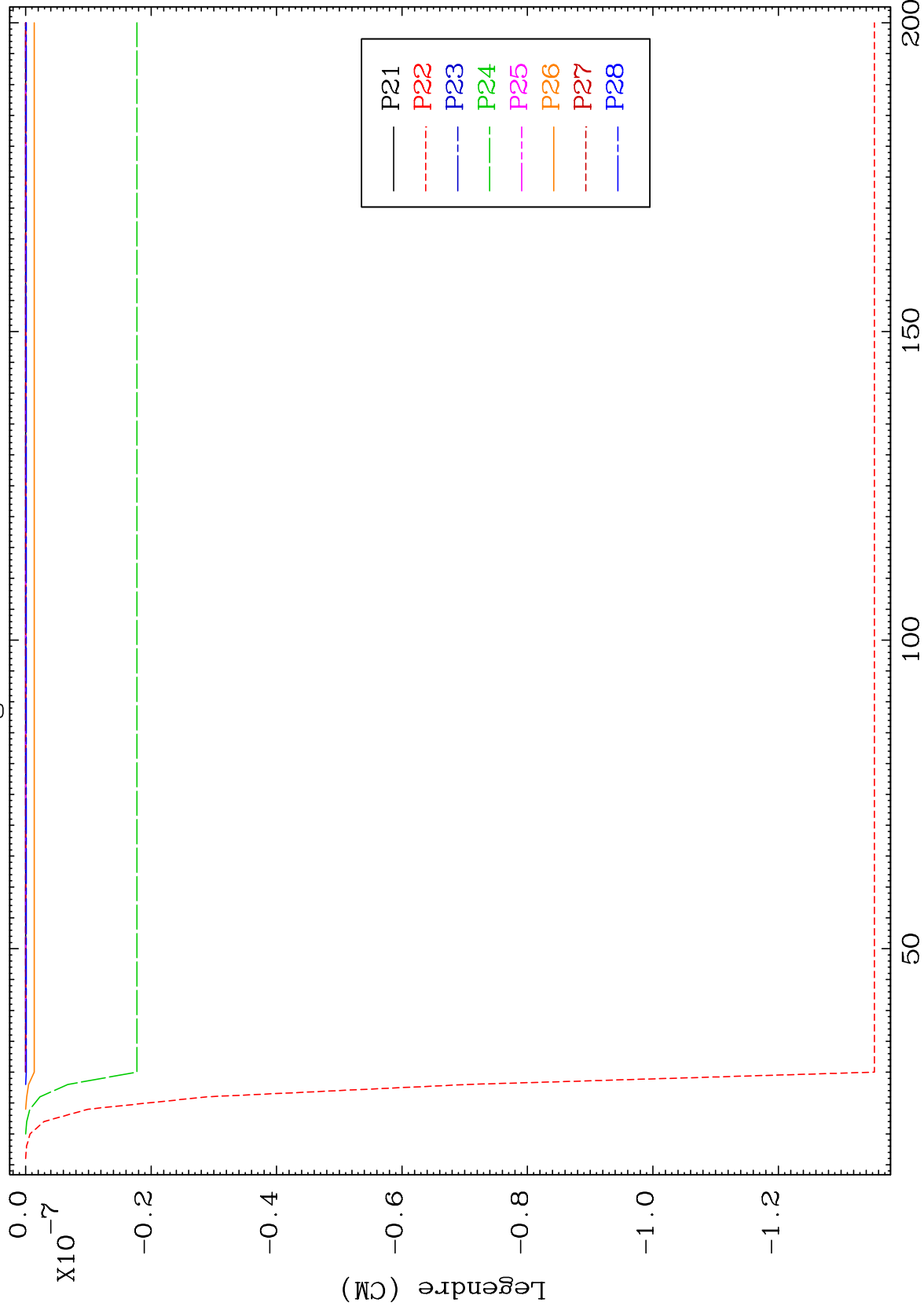
41

81-Tl-189

MAT 8083

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

81-Tl-189



42

81-Tl-189

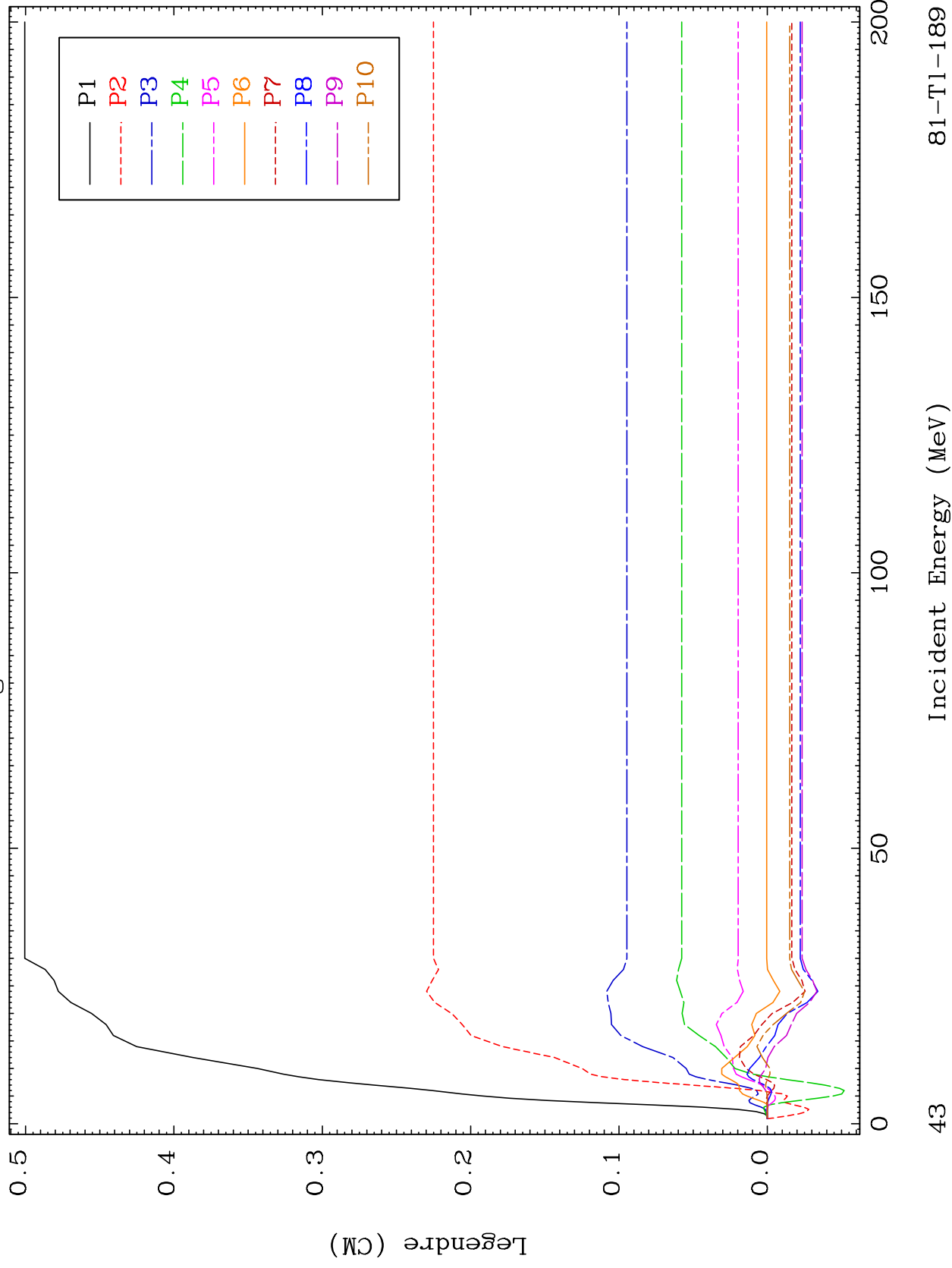
81-Tl-189

MAT 8083

MT= 58 (n,n') Level

81-Tl-189

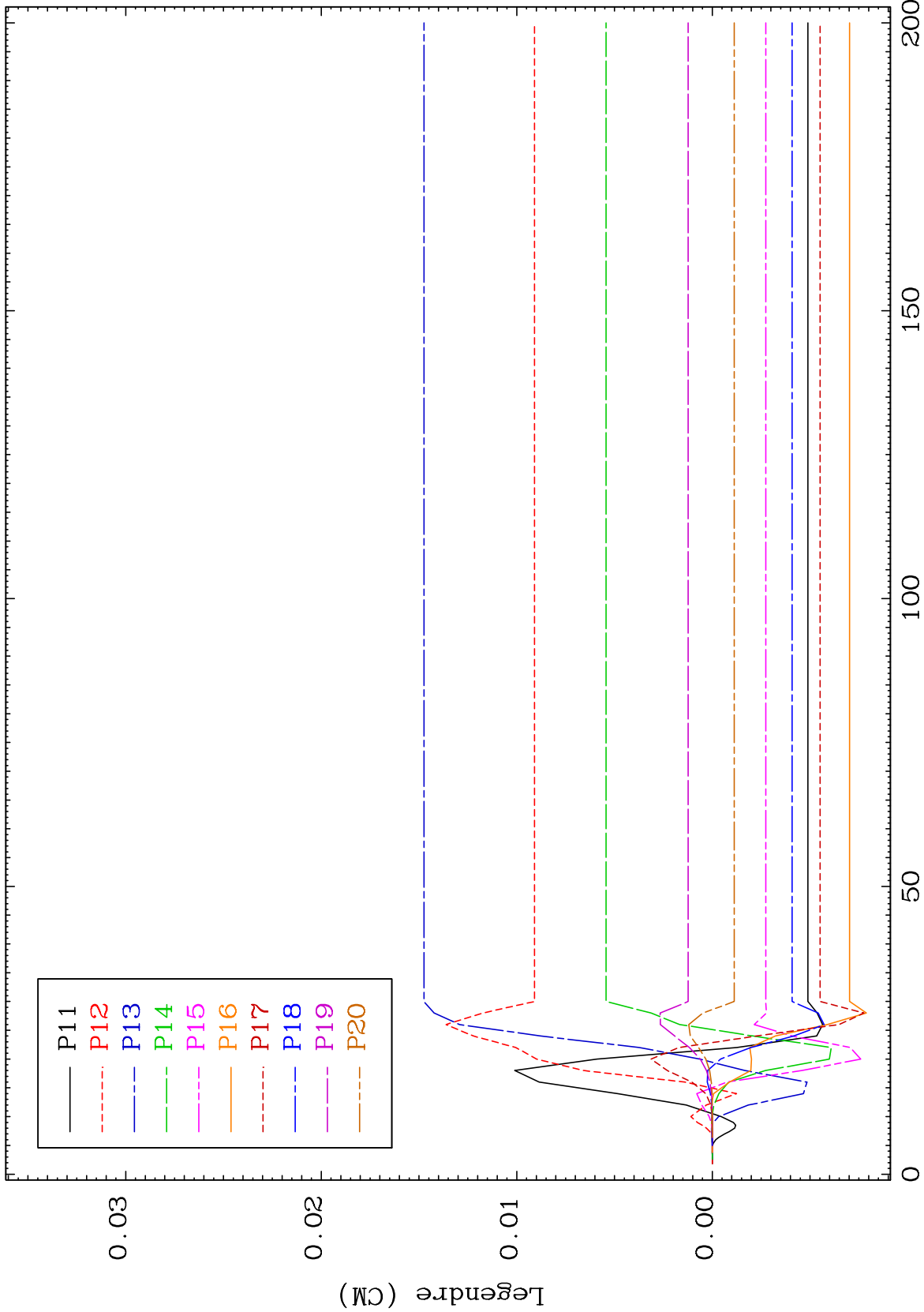
Legendre Coefficients



MAT 8083

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

81-T1-189



44

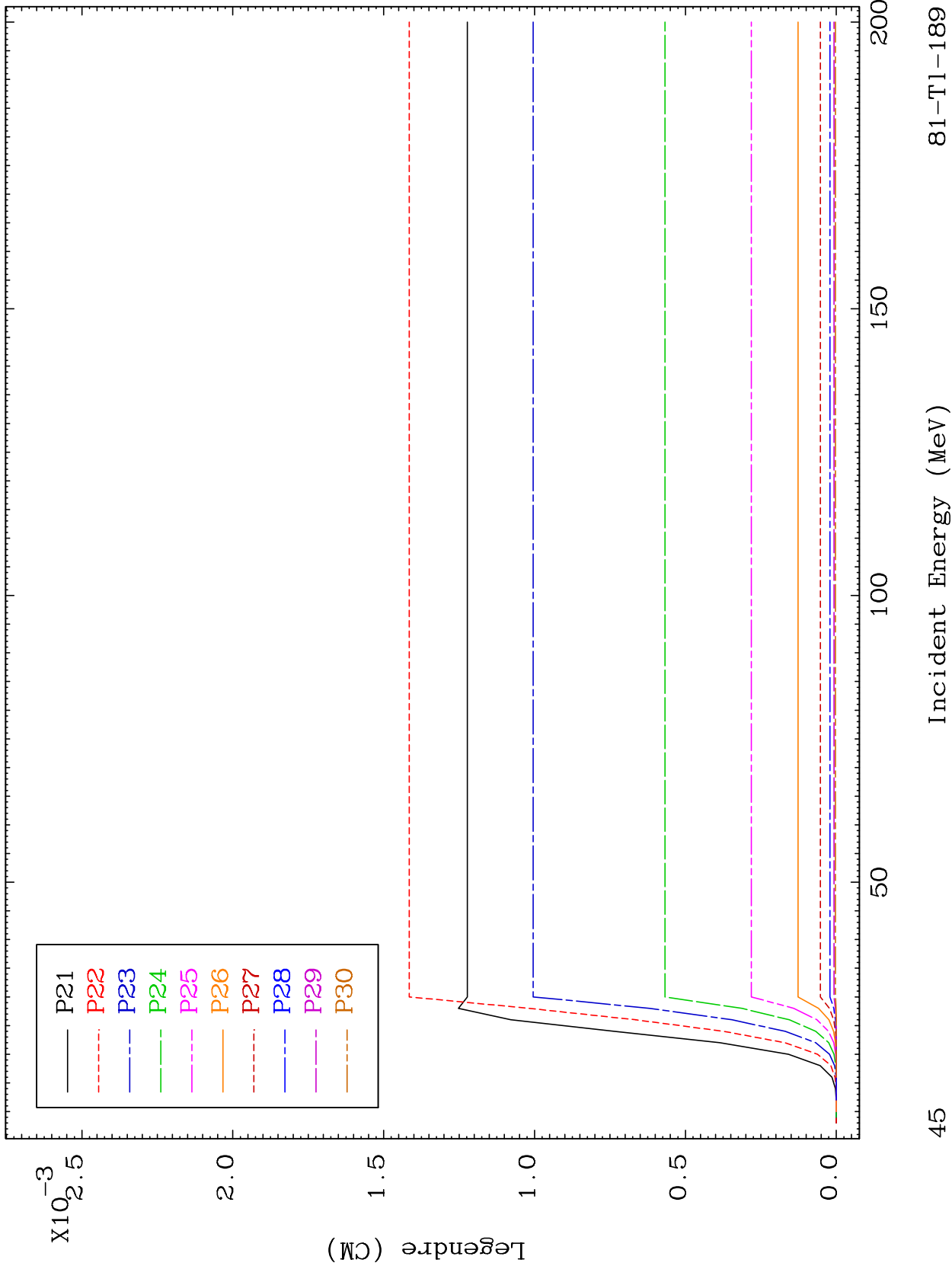
Incident Energy (MeV)

81-T1-189

MAT 8083

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

81-Tl-189



45

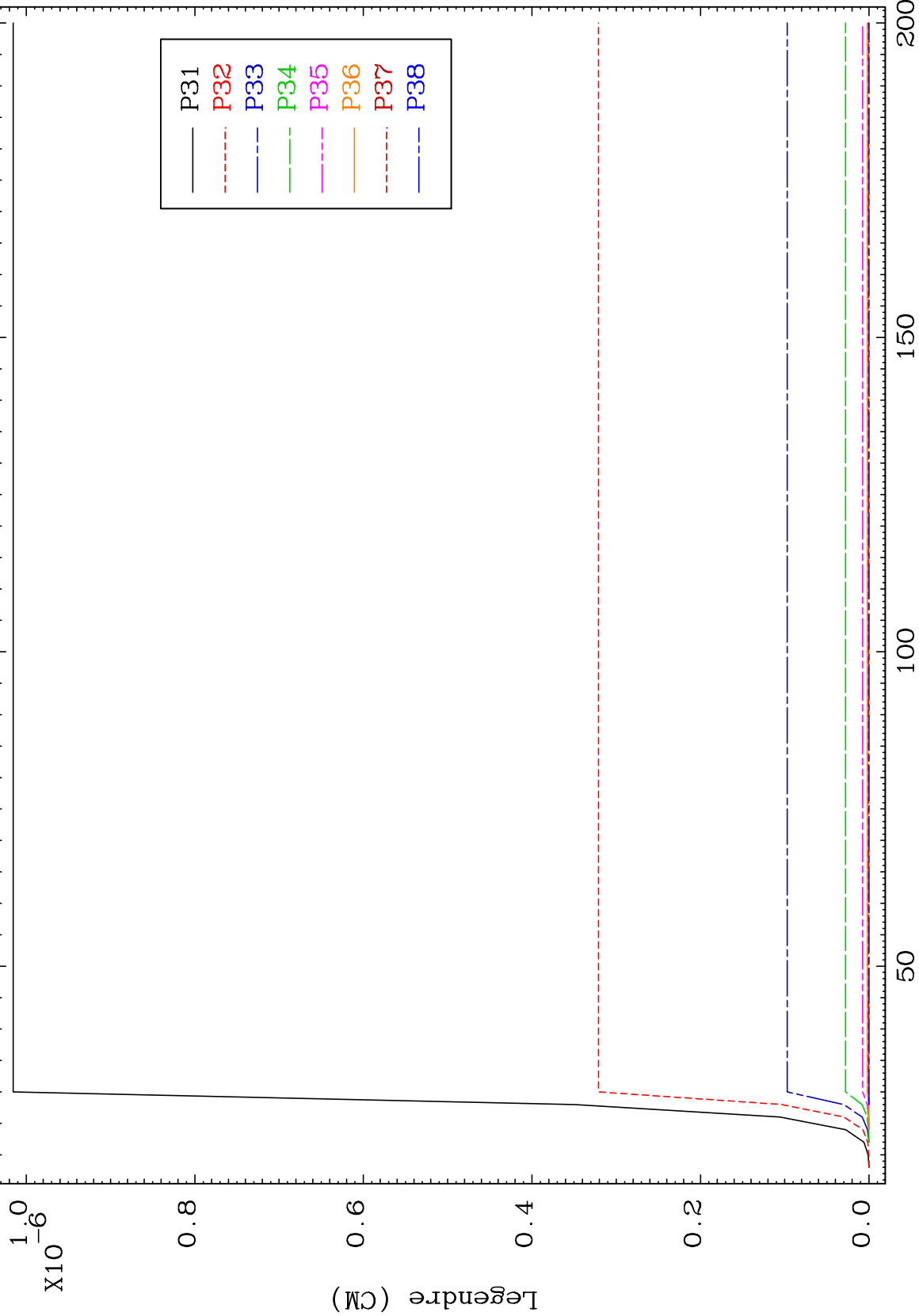
Incident Energy (MeV)

81-Tl-189

MAT 8083

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

81-Tl-189



46

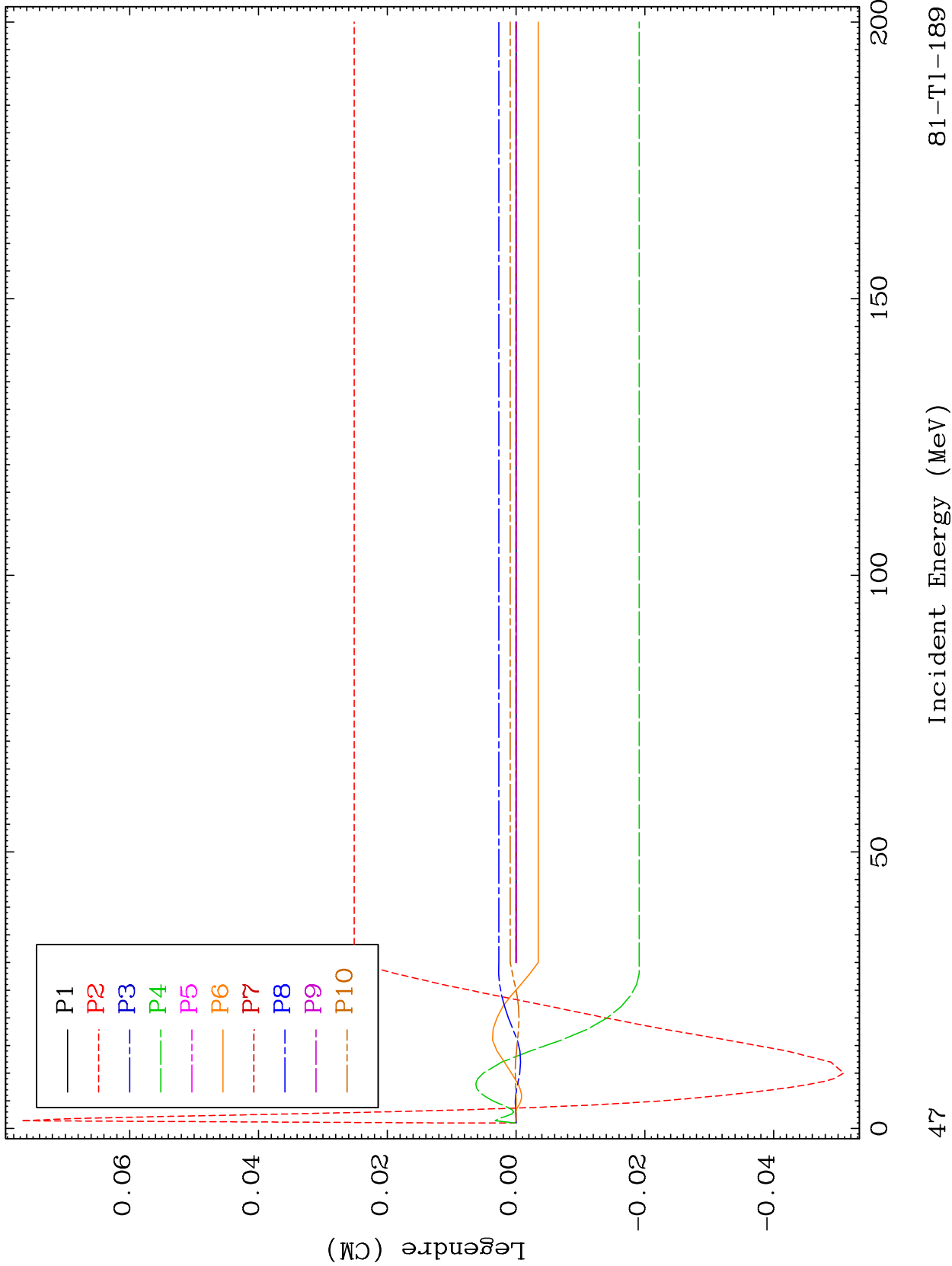
Incident Energy (MeV)

81-Tl-189

MAT 8083

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

81-Tl-189



47

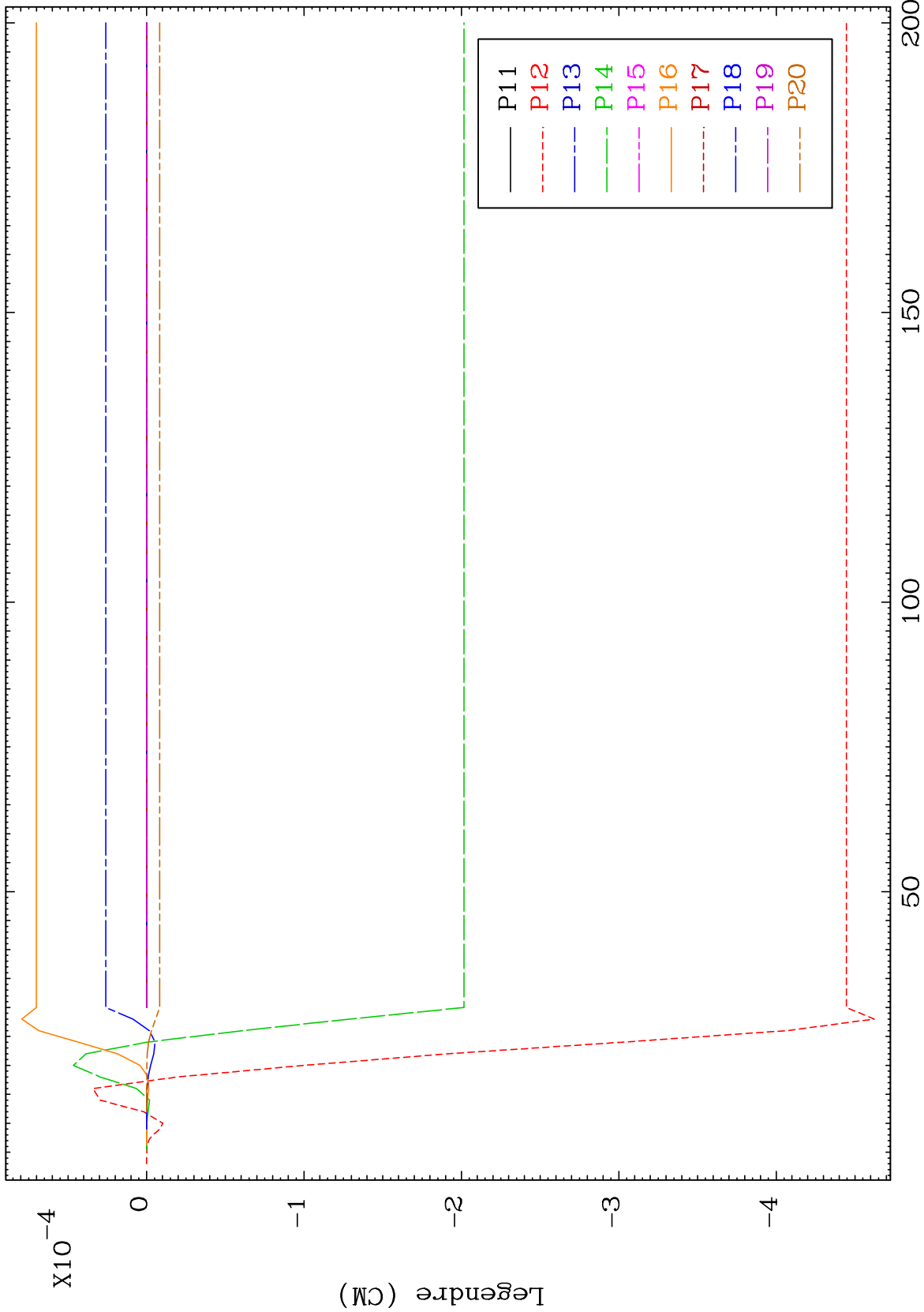
Incident Energy (MeV)

81-Tl-189

MAT 8083

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

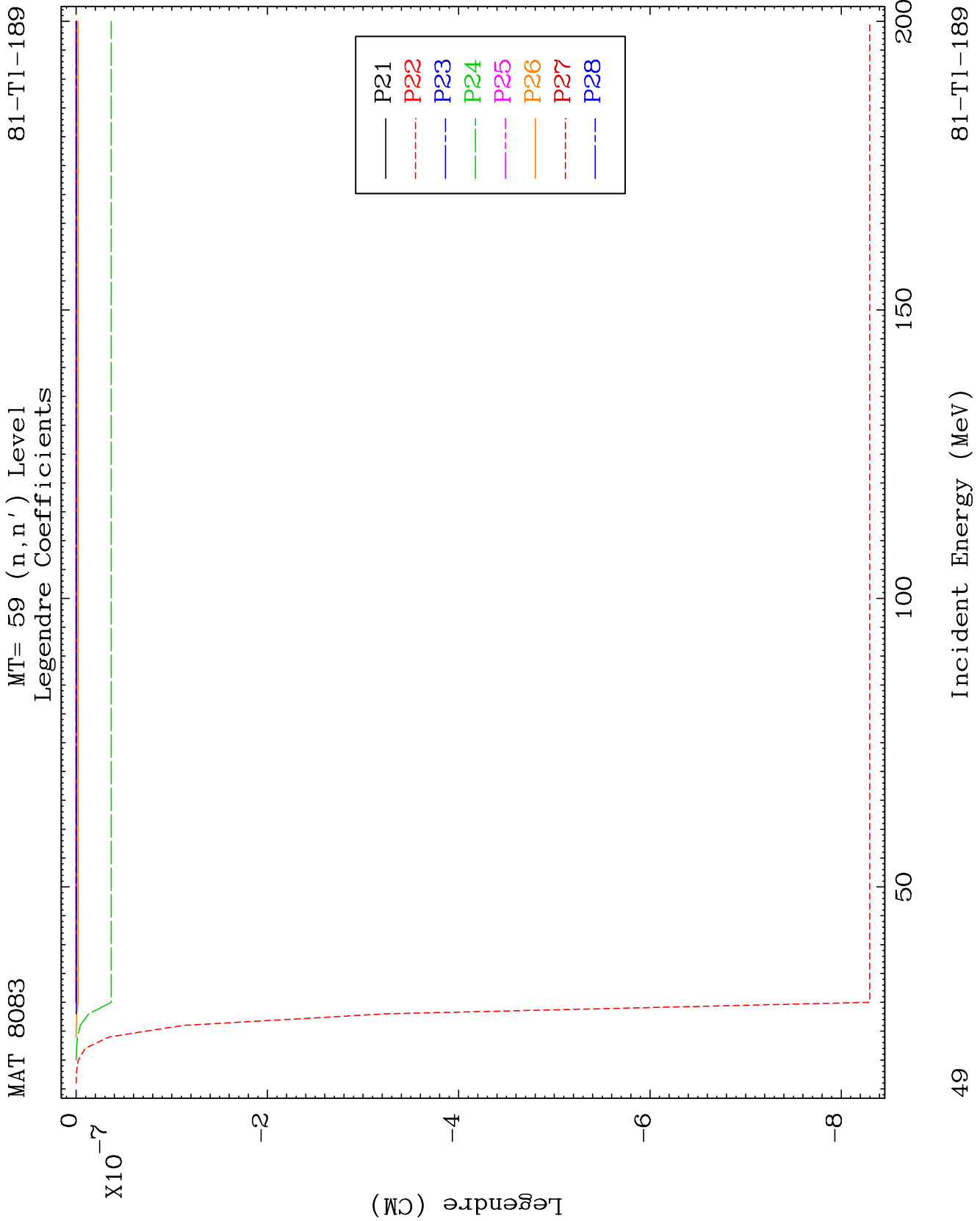
81-Tl-189



48

Incident Energy (MeV)

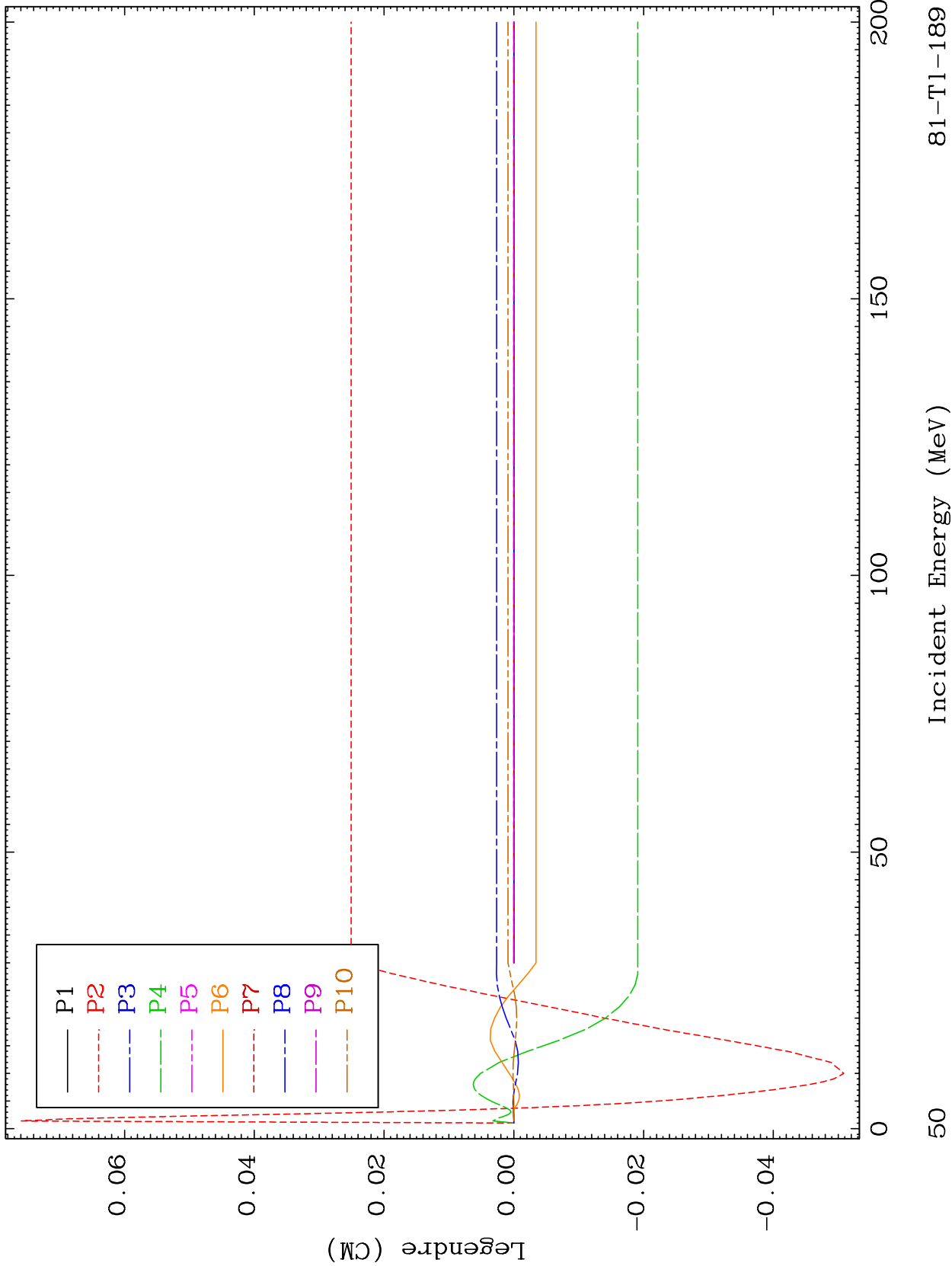
81-Tl-189



MAT 8083

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

81-Tl-189



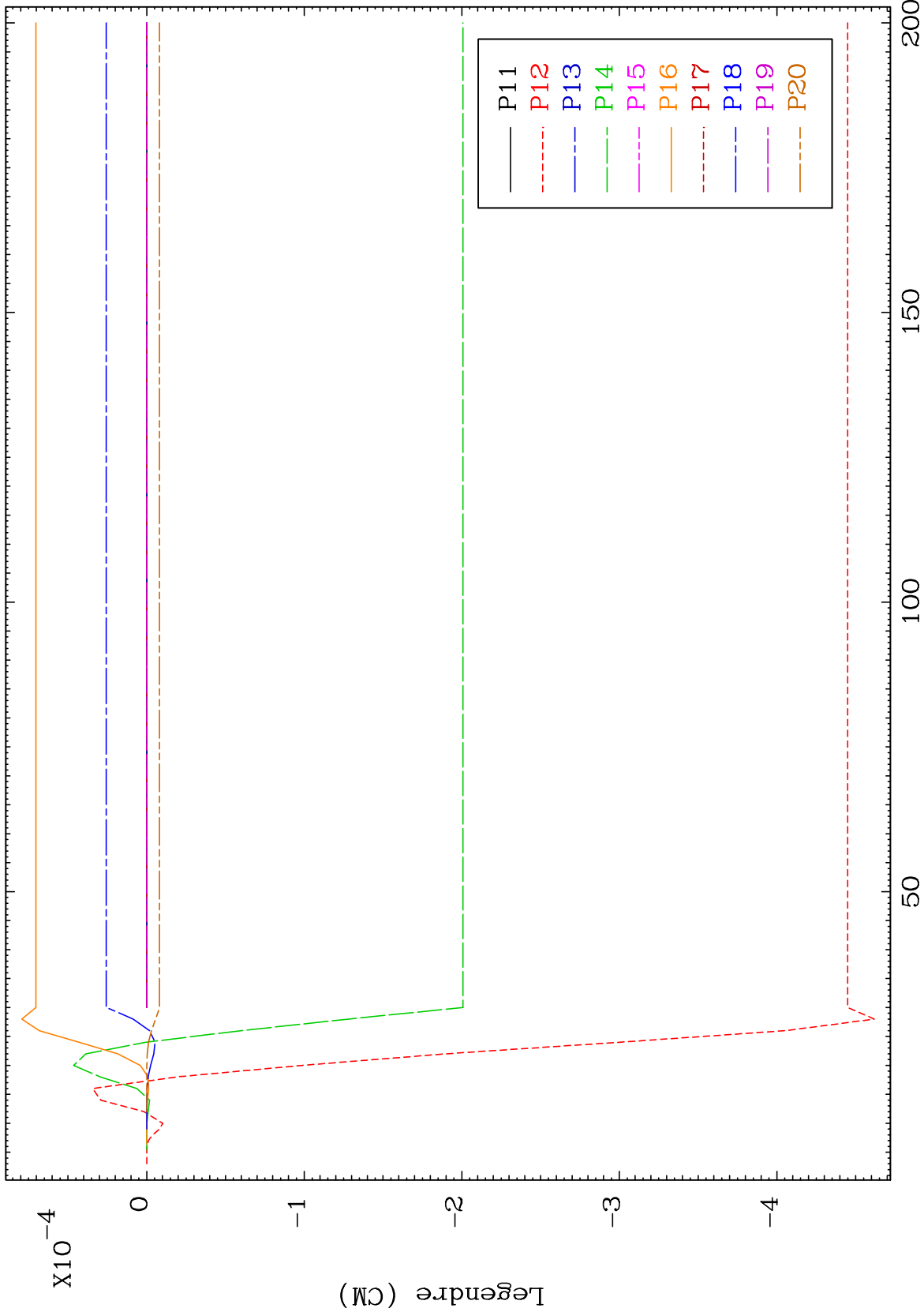
81-Tl-189

Incident Energy (MeV)

MAT 8083

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

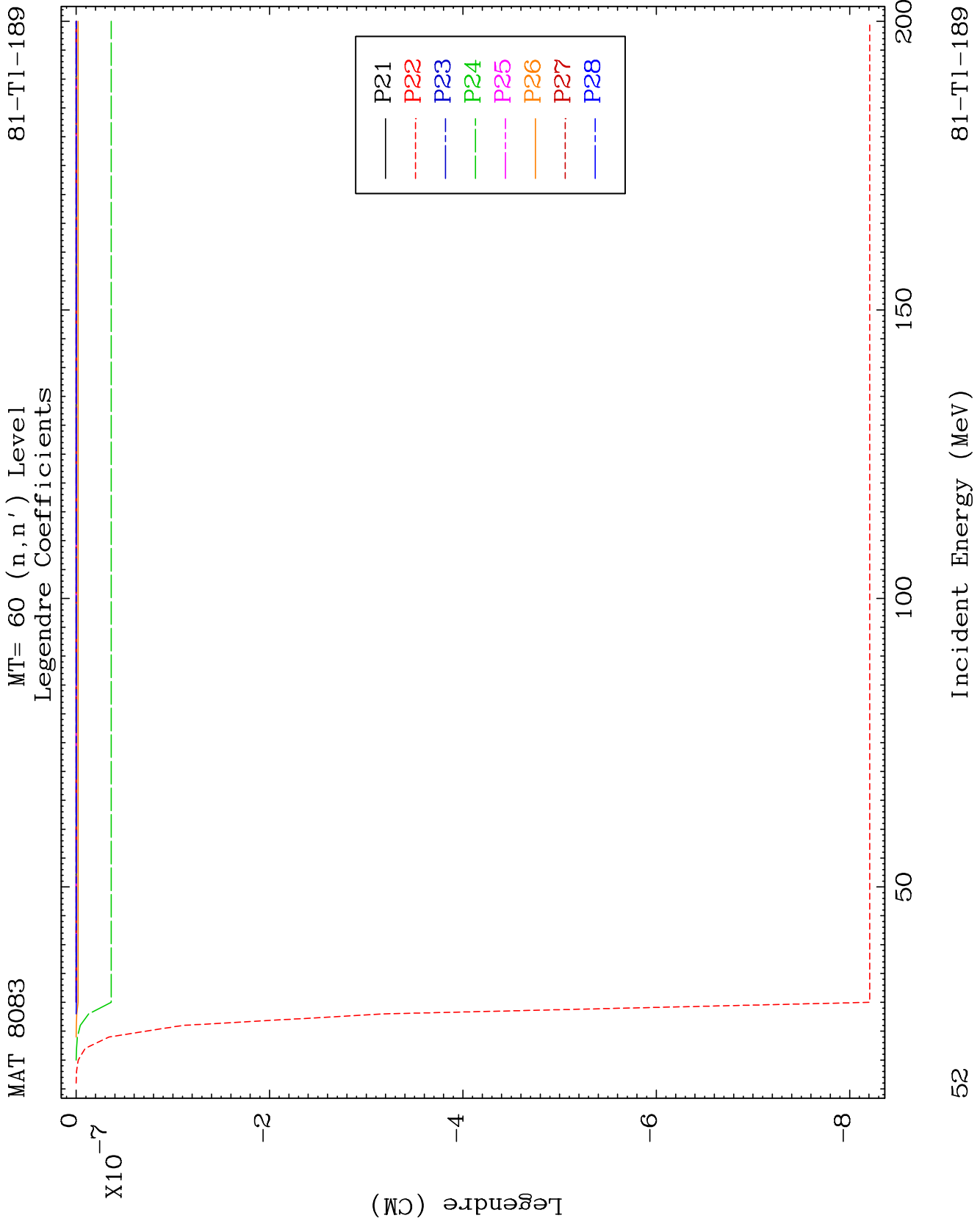
81-Tl-189



51

Incident Energy (MeV)

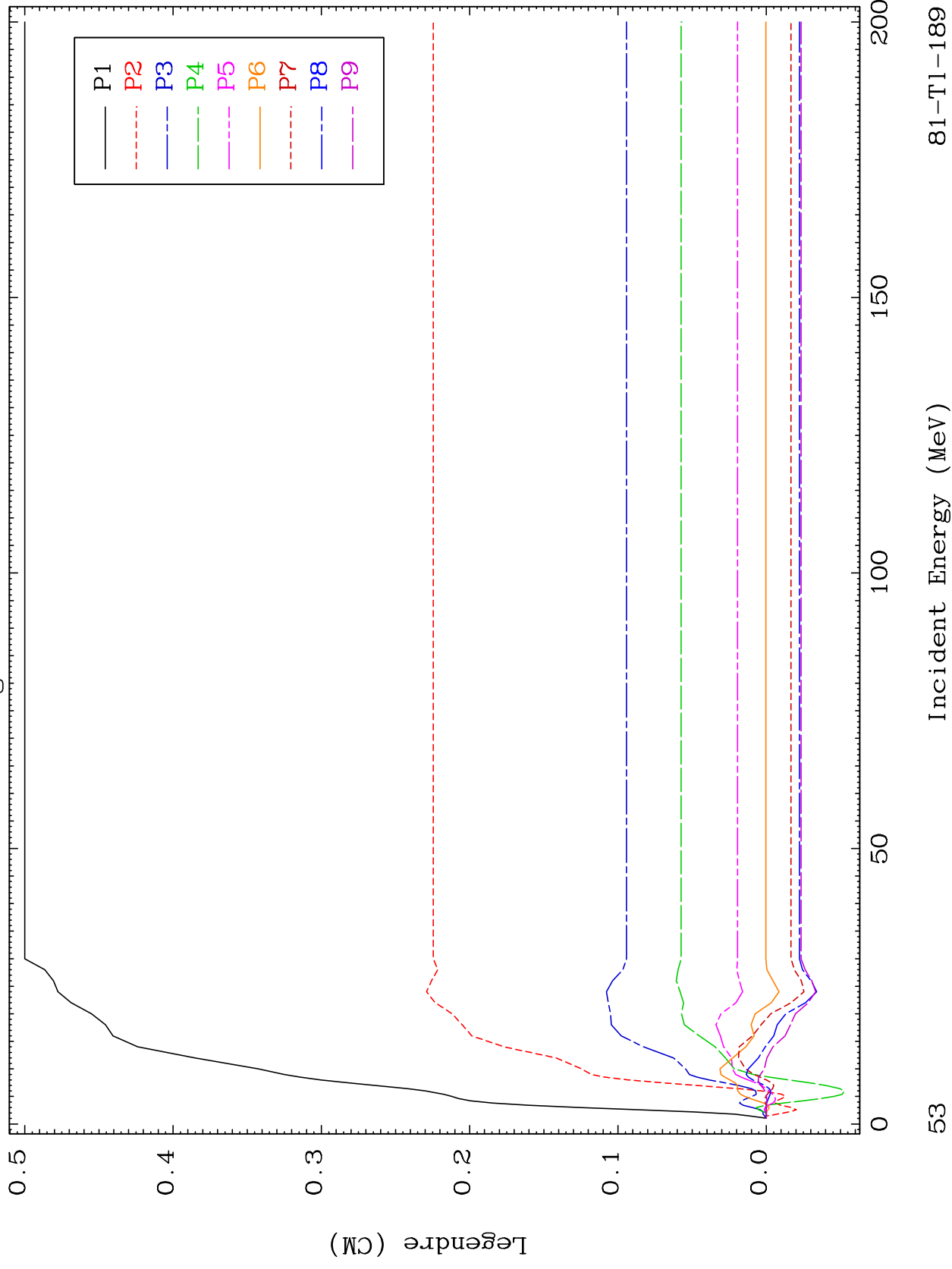
81-Tl-189



MAT 8083

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

81-Tl-189



53

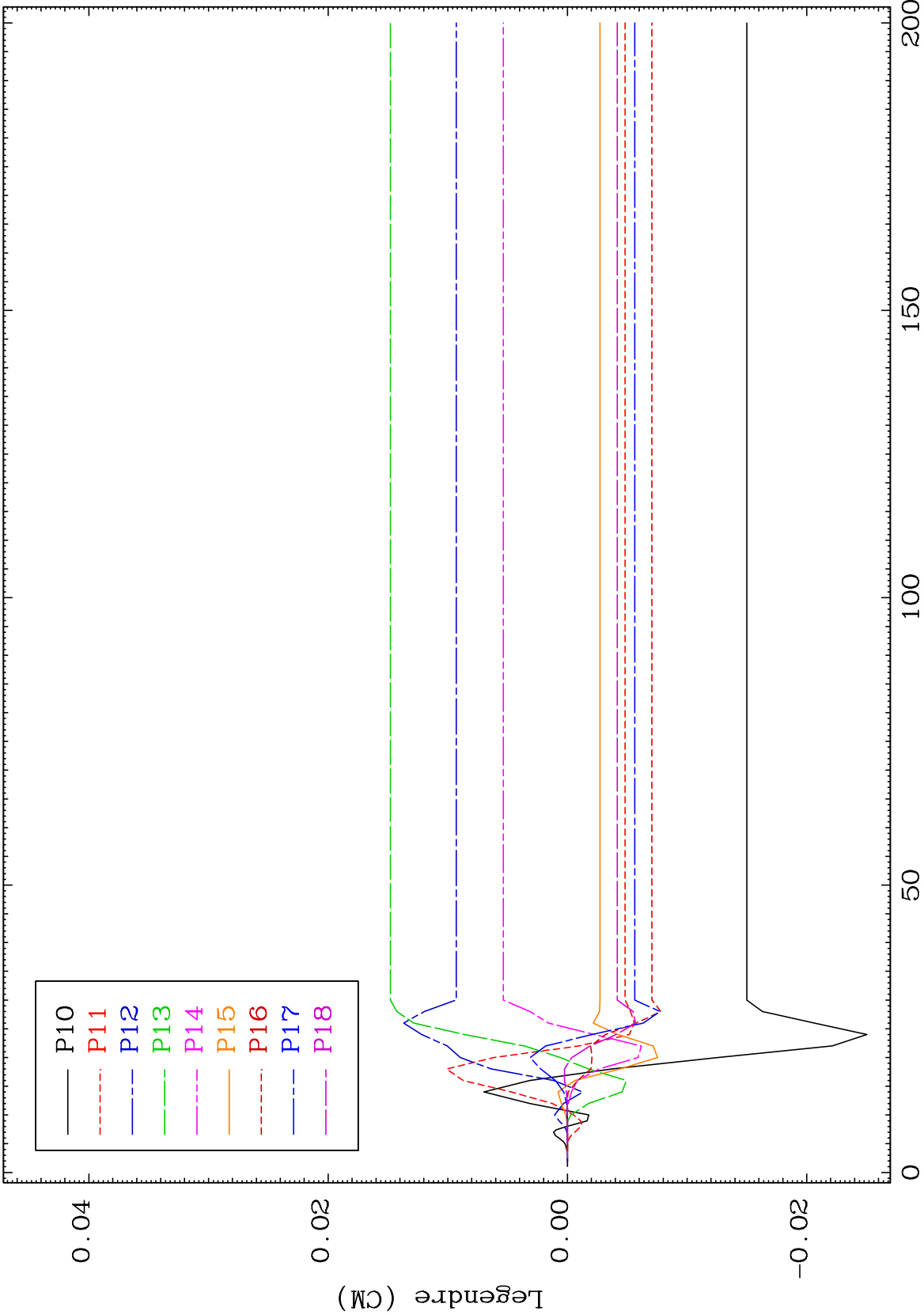
Incident Energy (MeV)

81-Tl-189

MAT 8083

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

81-Tl-189



54

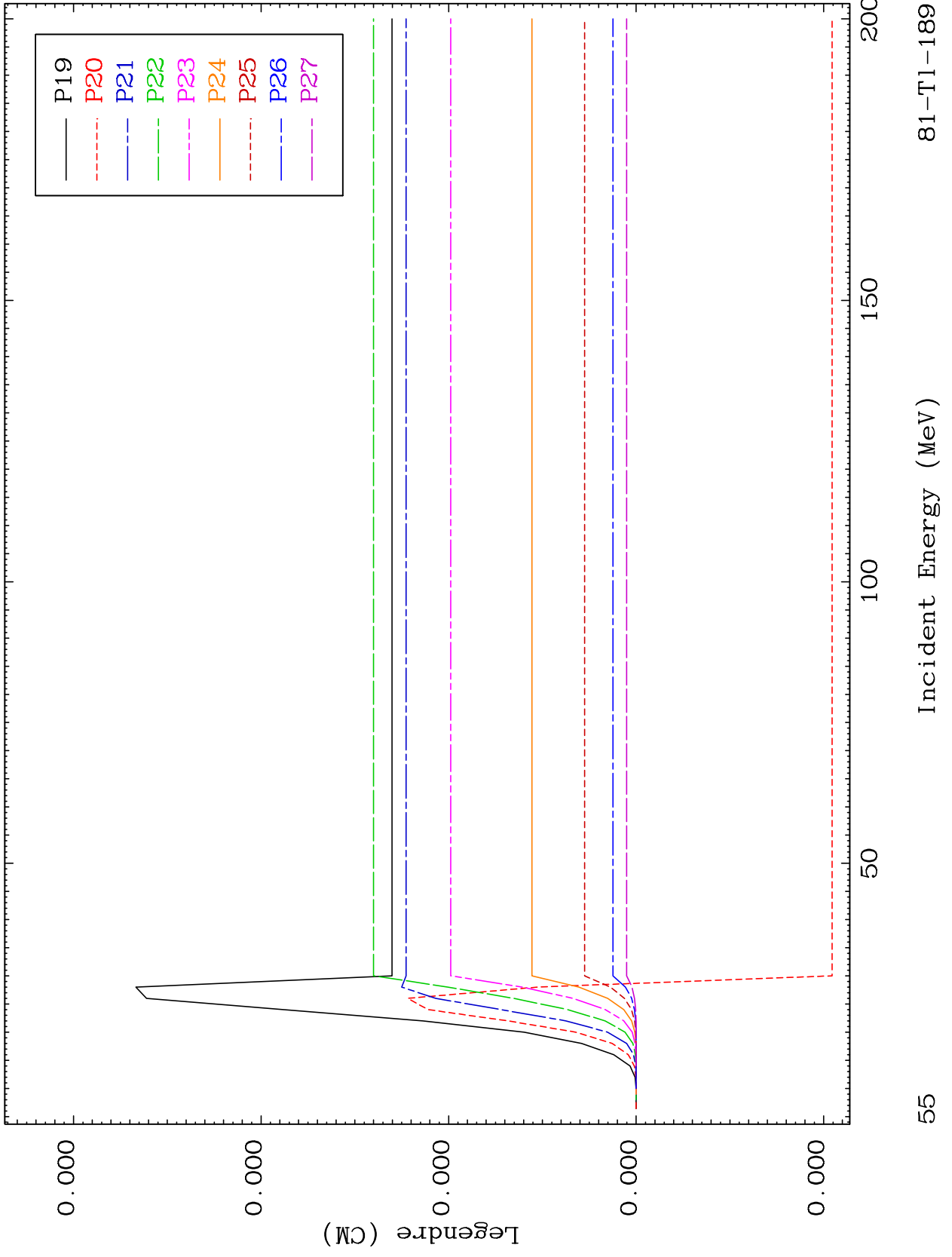
Incident Energy (MeV)

81-Tl-189

MAT 8083

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

81-Tl-189



55

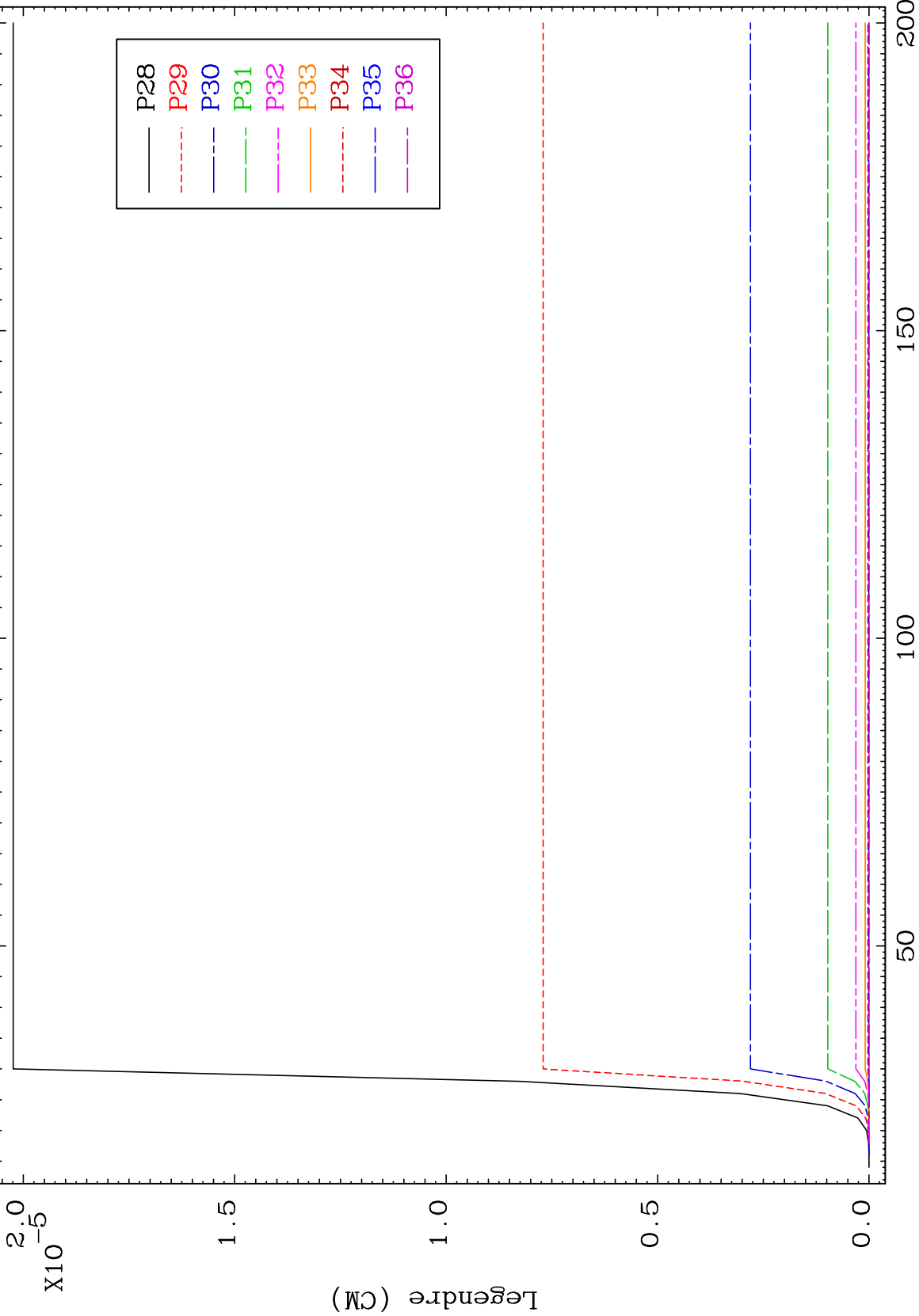
Incident Energy (MeV)

81-Tl-189

MAT 8083

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

81-Tl-189



56

Incident Energy (MeV)

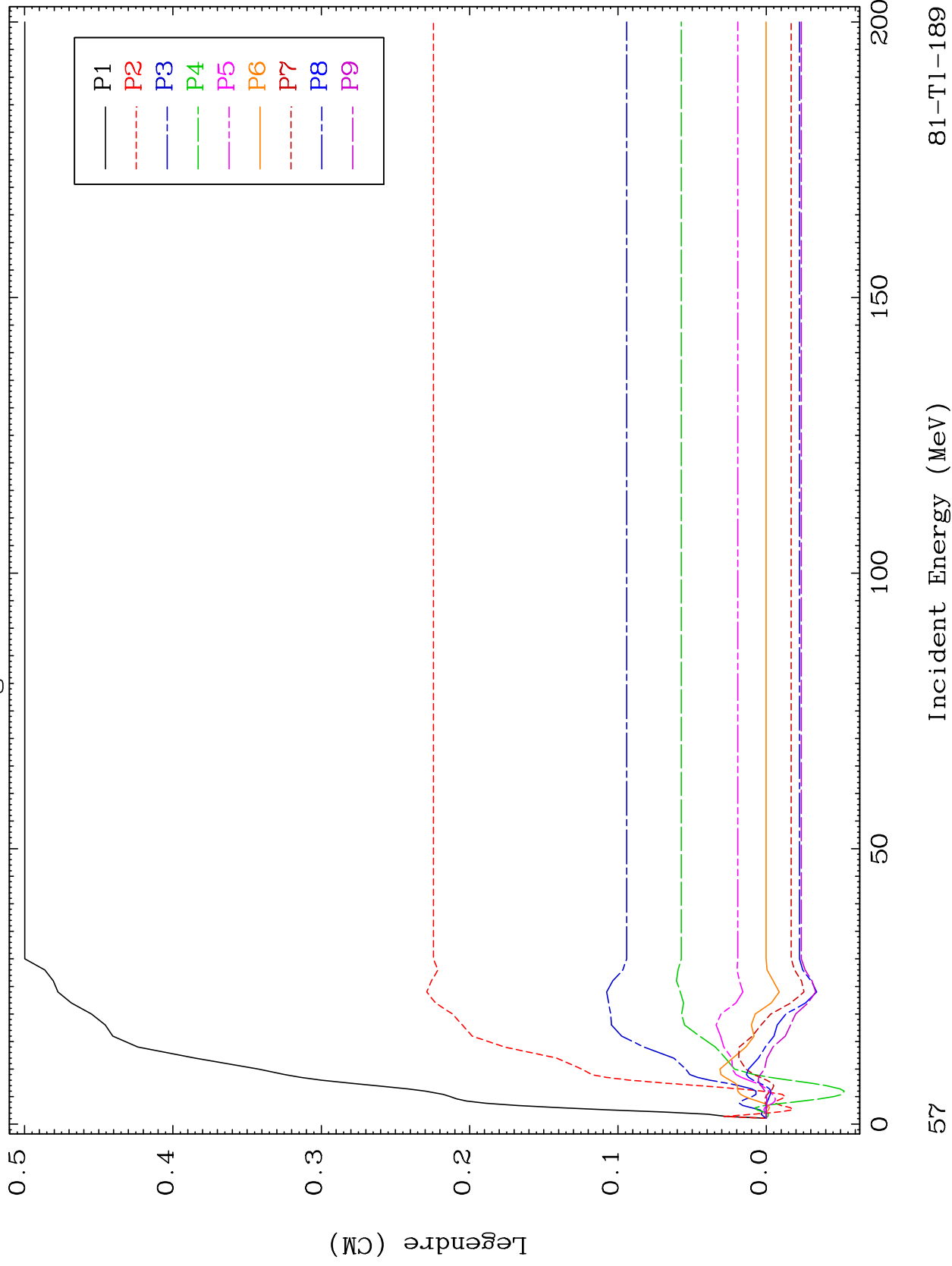
81-Tl-189

MAT 8083

MT= 62 (n,n') Level

81-Tl-189

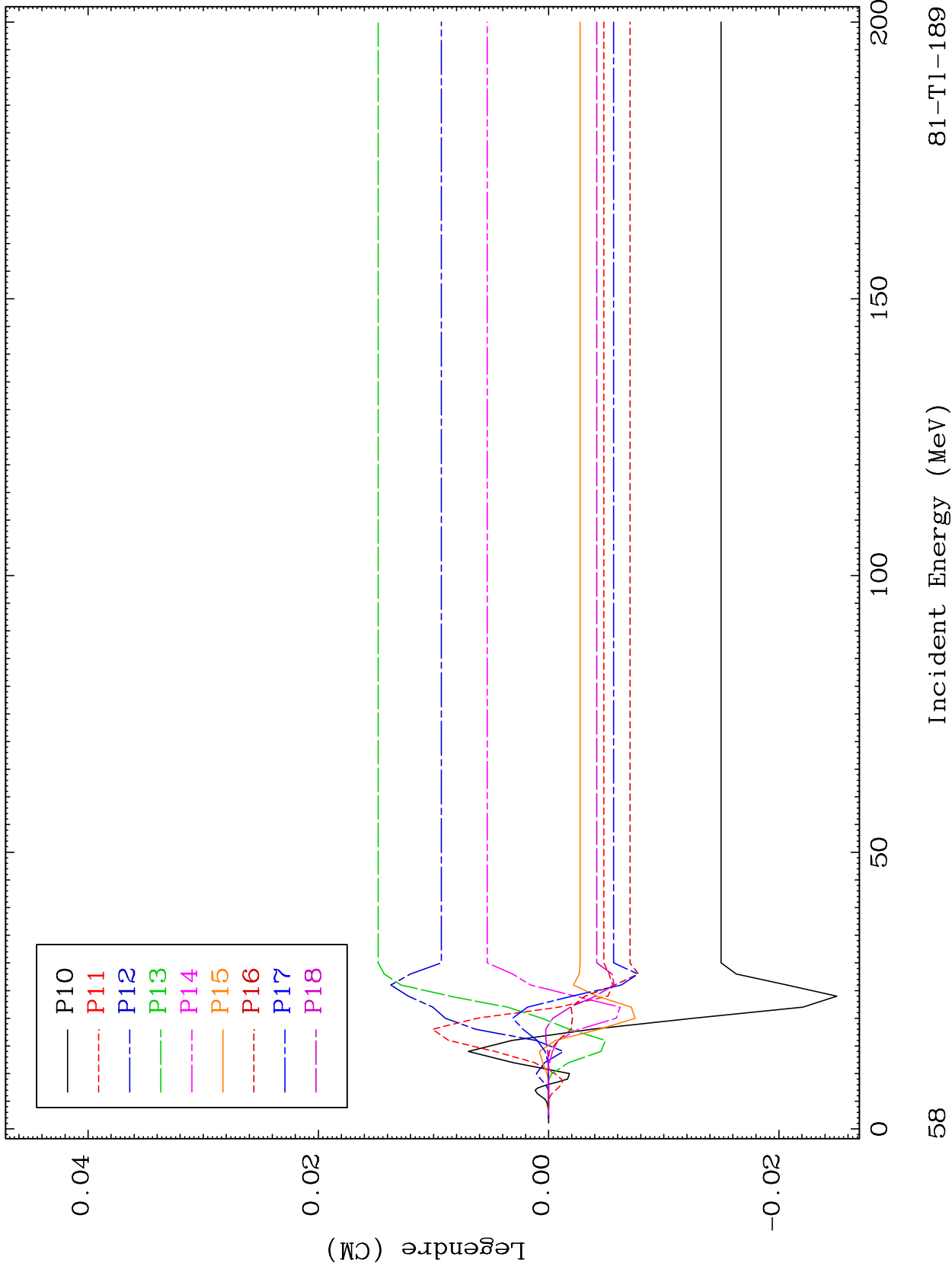
Legendre Coefficients



MAT 8083

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

81-Tl-189



58

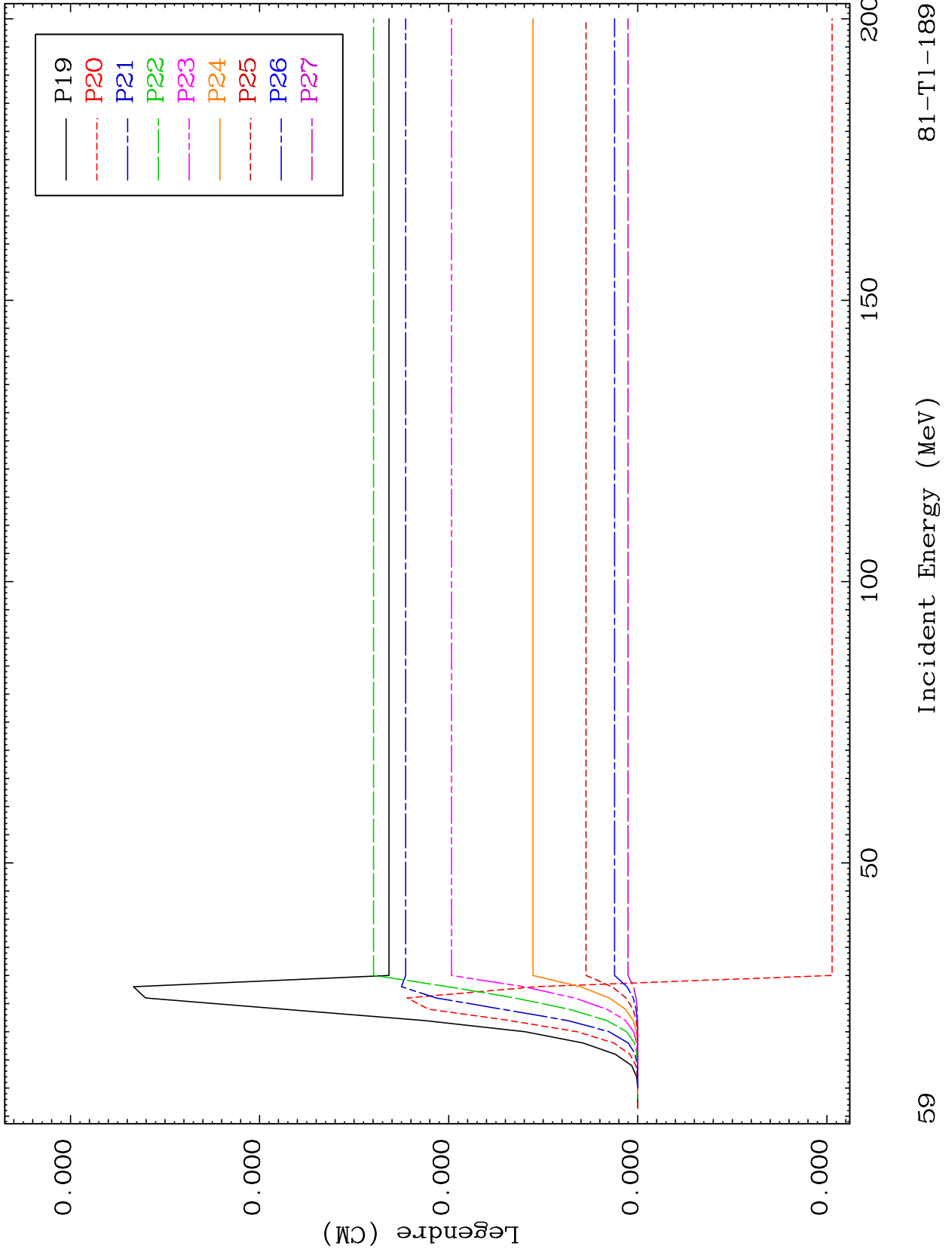
Incident Energy (MeV)

81-Tl-189

MAT 8083

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

81-Tl-189



59

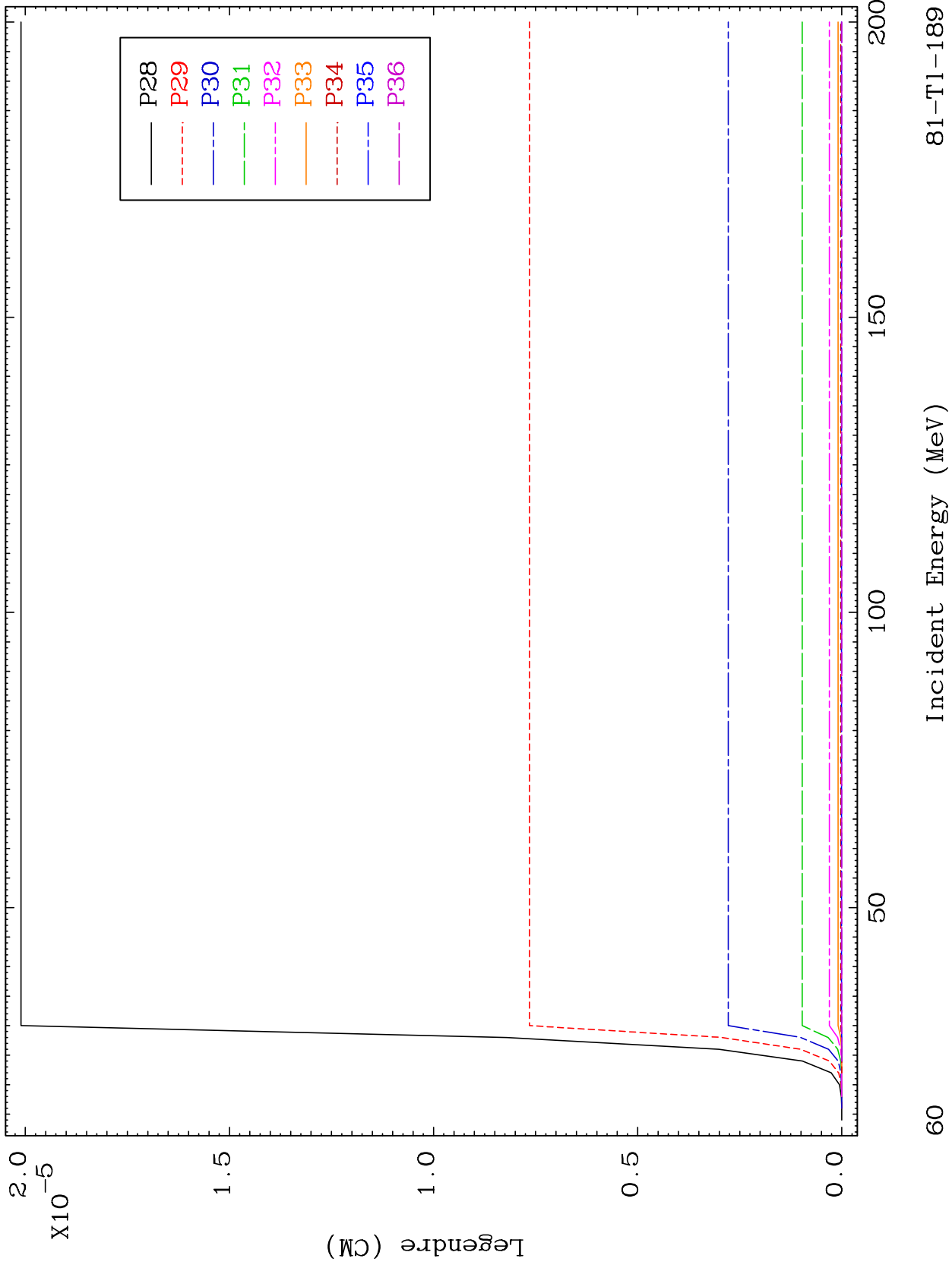
Incident Energy (MeV)

81-Tl-189

MAT 8083

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

81-Tl-189

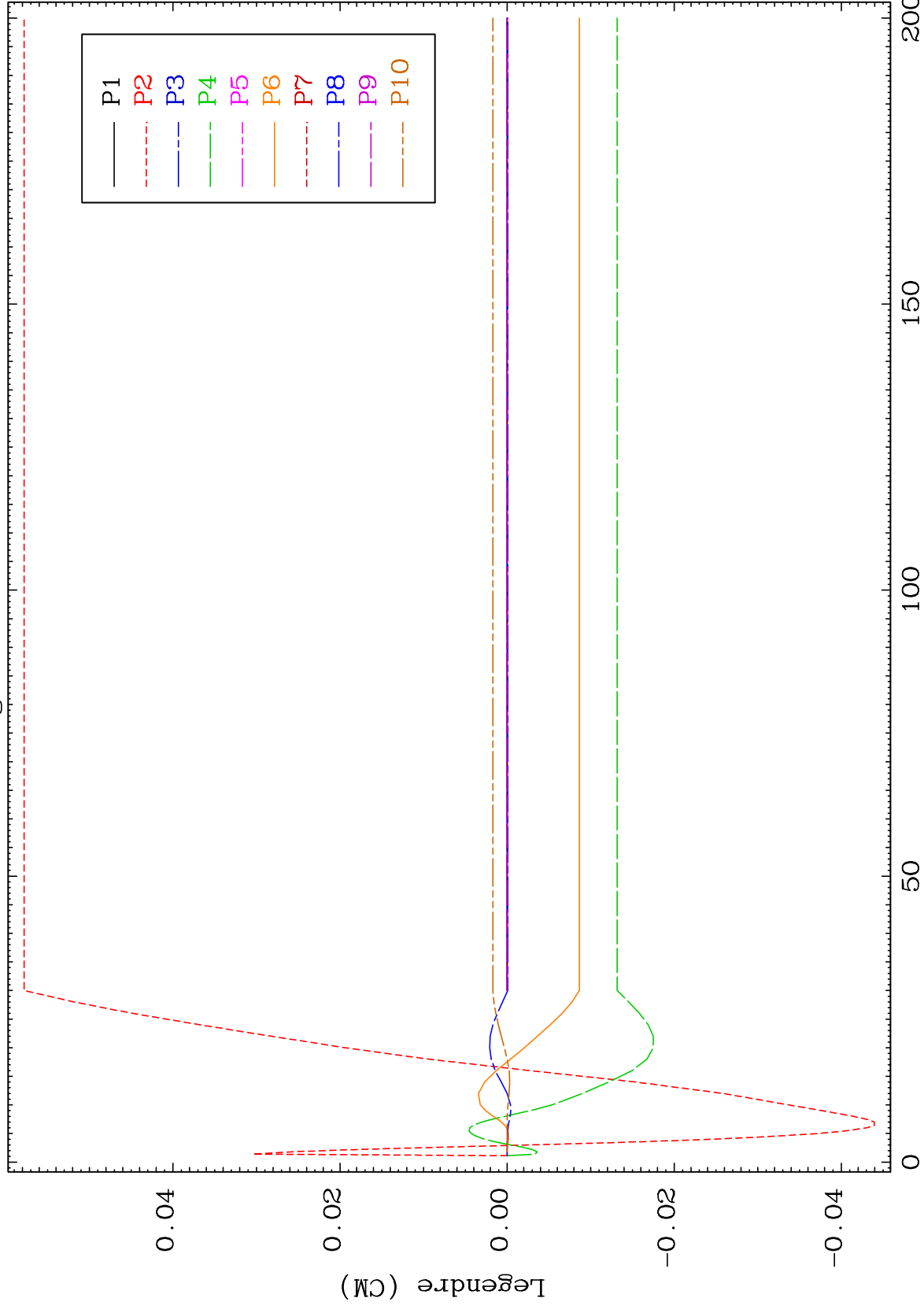


MAT 8083

MT= 63 (n,n') Level

81-Tl-189

Legendre Coefficients



61

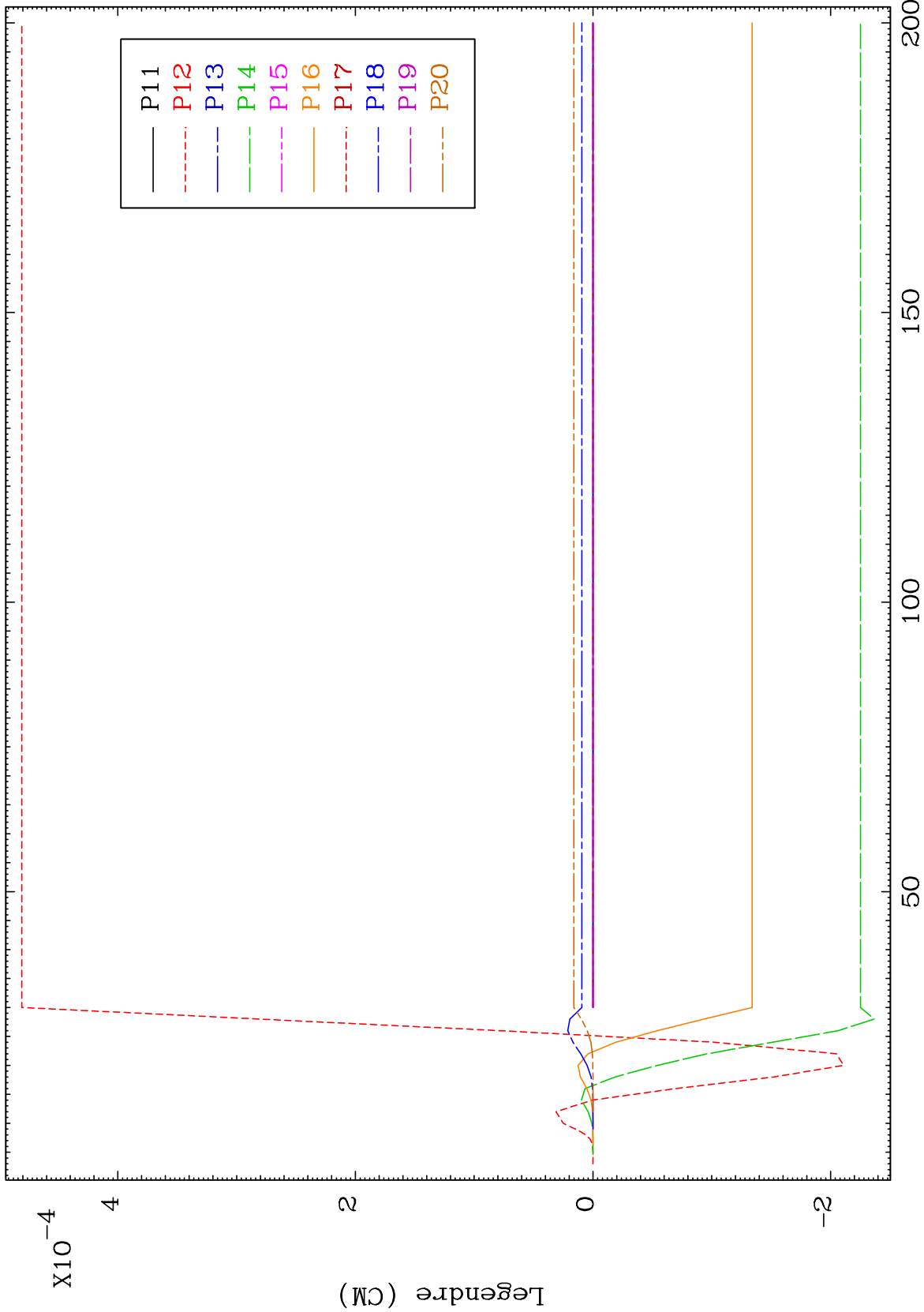
Incident Energy (MeV)

81-Tl-189

MAT 8083

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

81-Tl-189



62

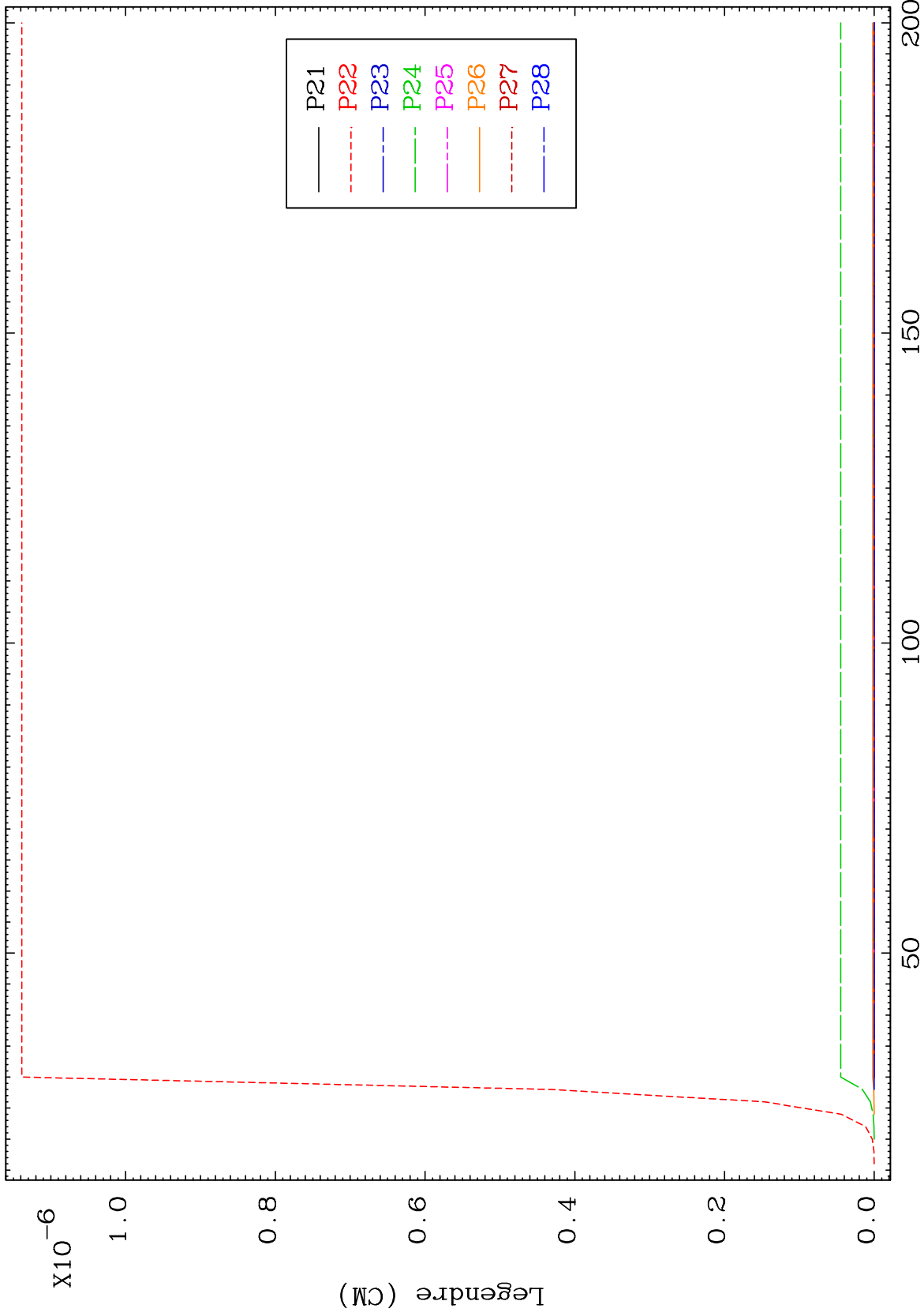
Incident Energy (MeV)

81-Tl-189

MAT 8083

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

81-Tl-189



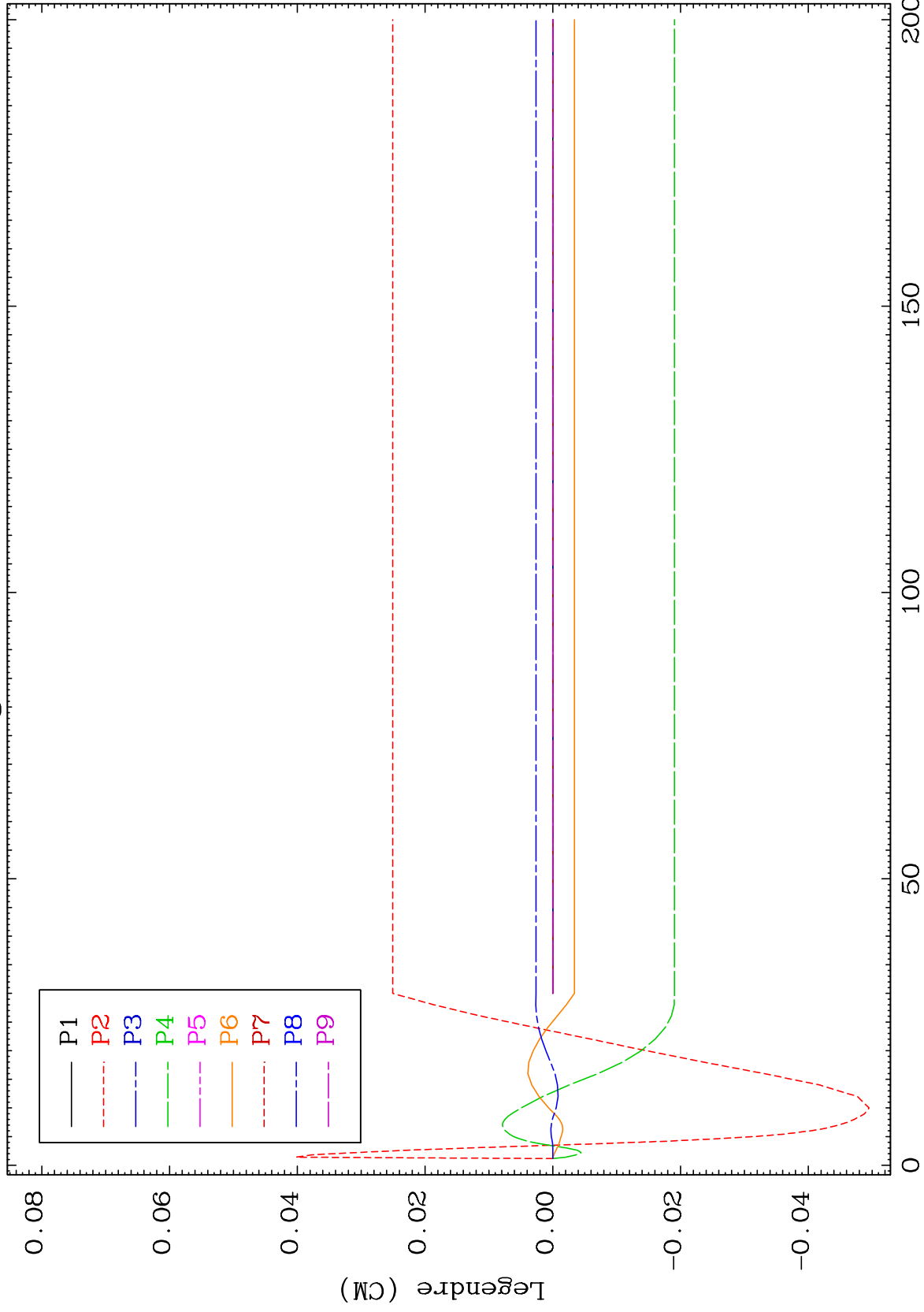
63

81-Tl-189

MAT 8083

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

81-Tl-189



64

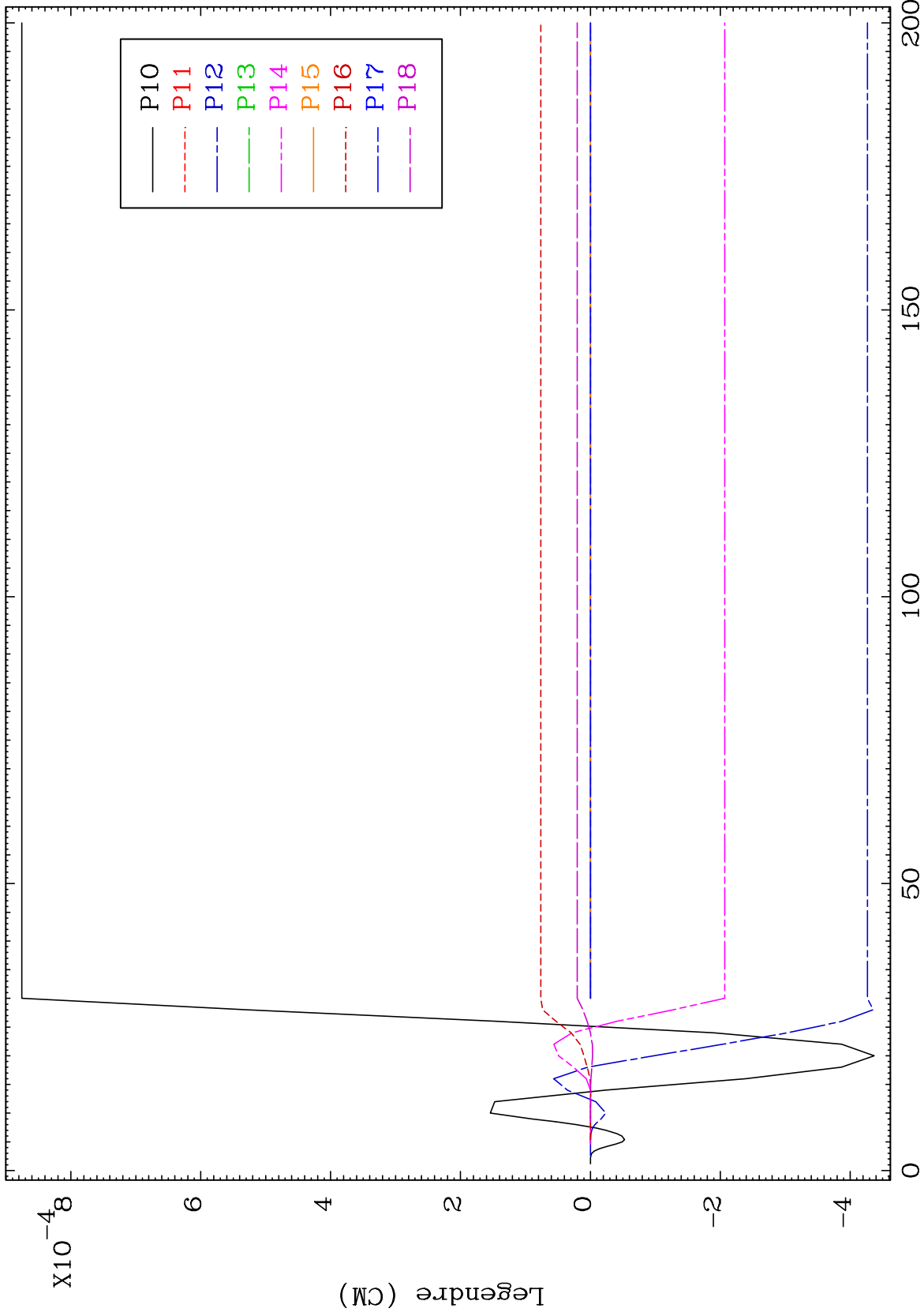
Incident Energy (MeV)

81-Tl-189

MAT 8083

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

81-Tl-189



65

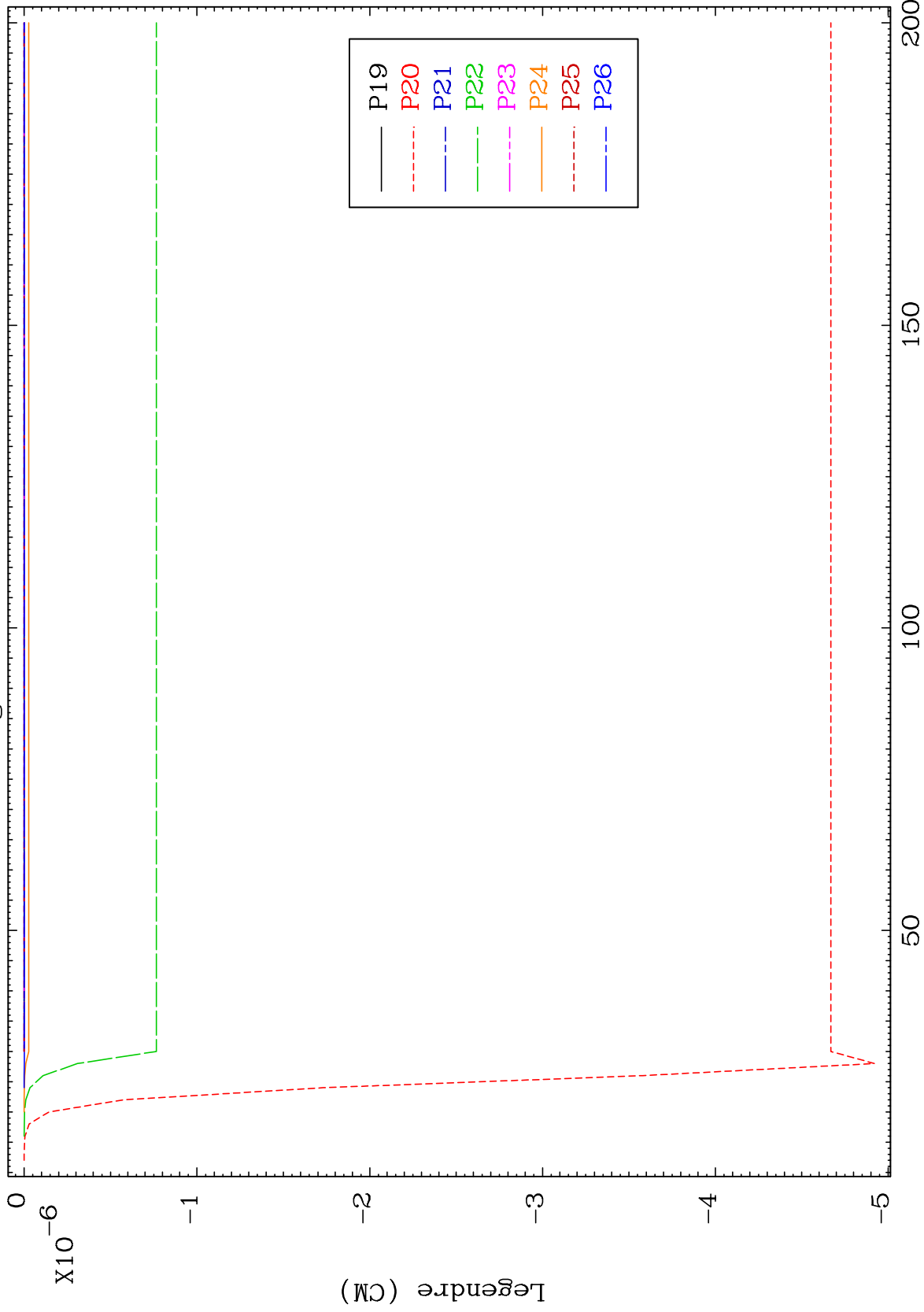
Incident Energy (MeV)

81-Tl-189

MAT 8083

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

81-Tl-189



66

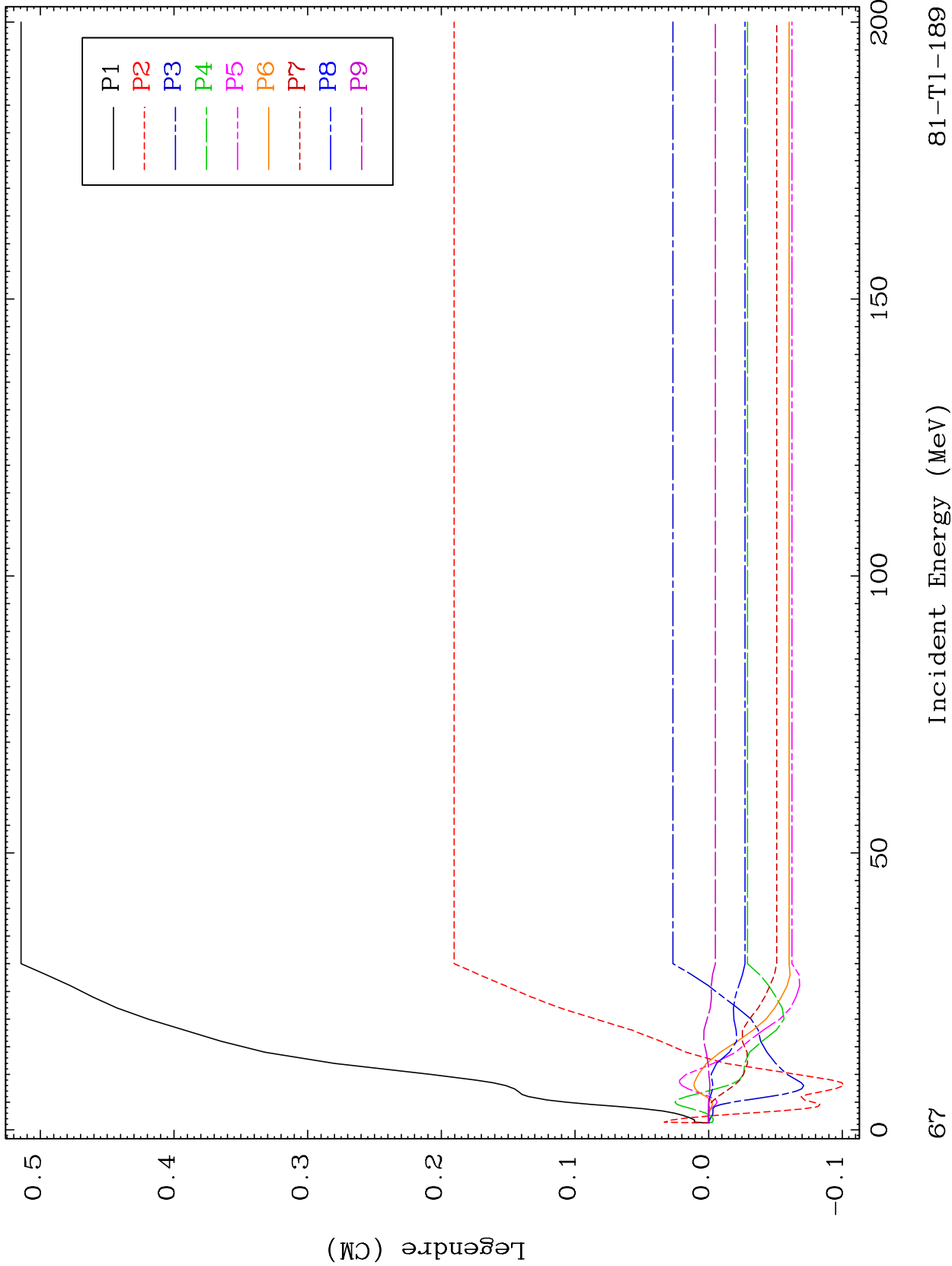
Incident Energy (MeV)

81-Tl-189

MAT 8083

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

81-Tl-189



81-Tl-189

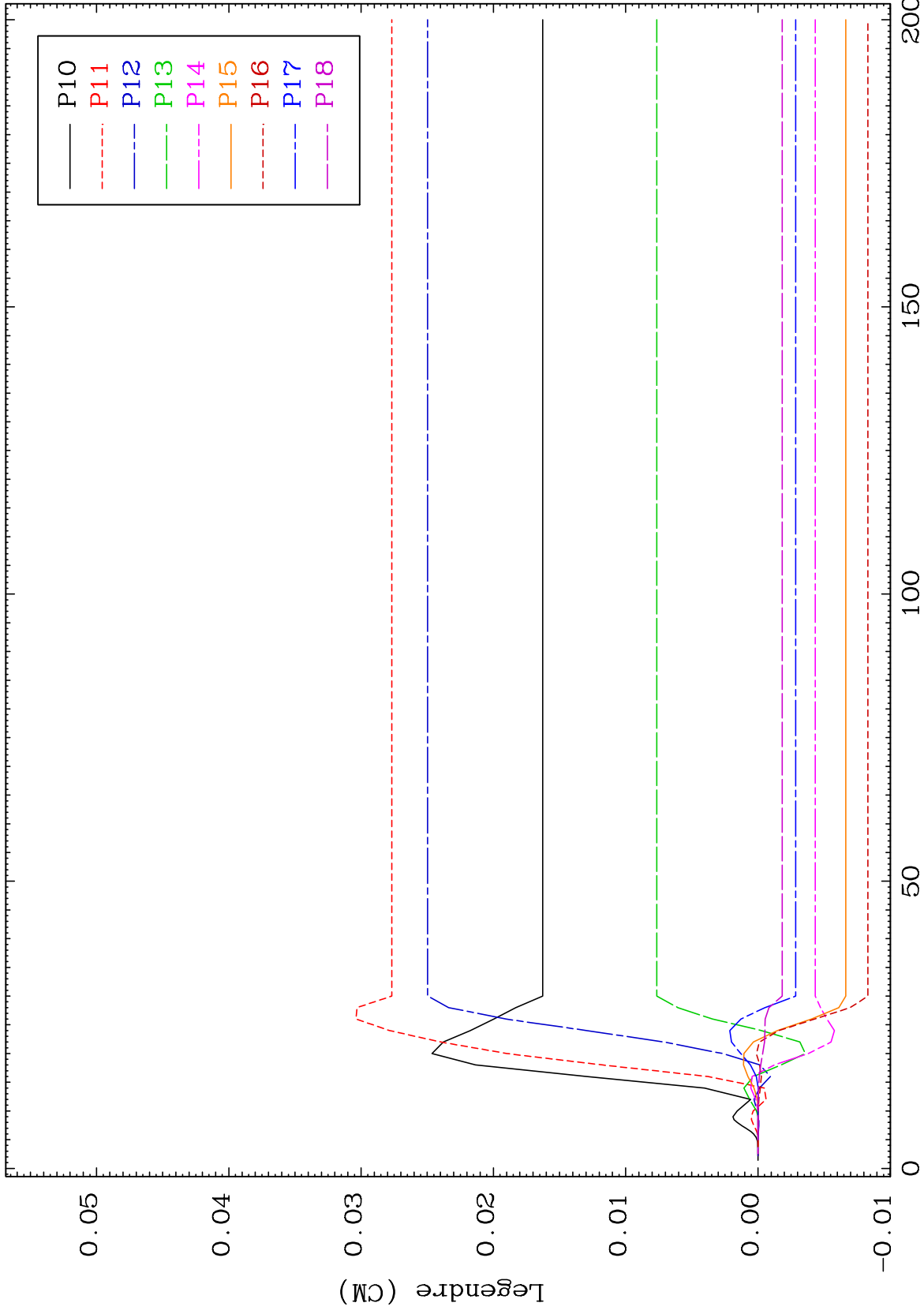
Incident Energy (MeV)

67

MAT 8083

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

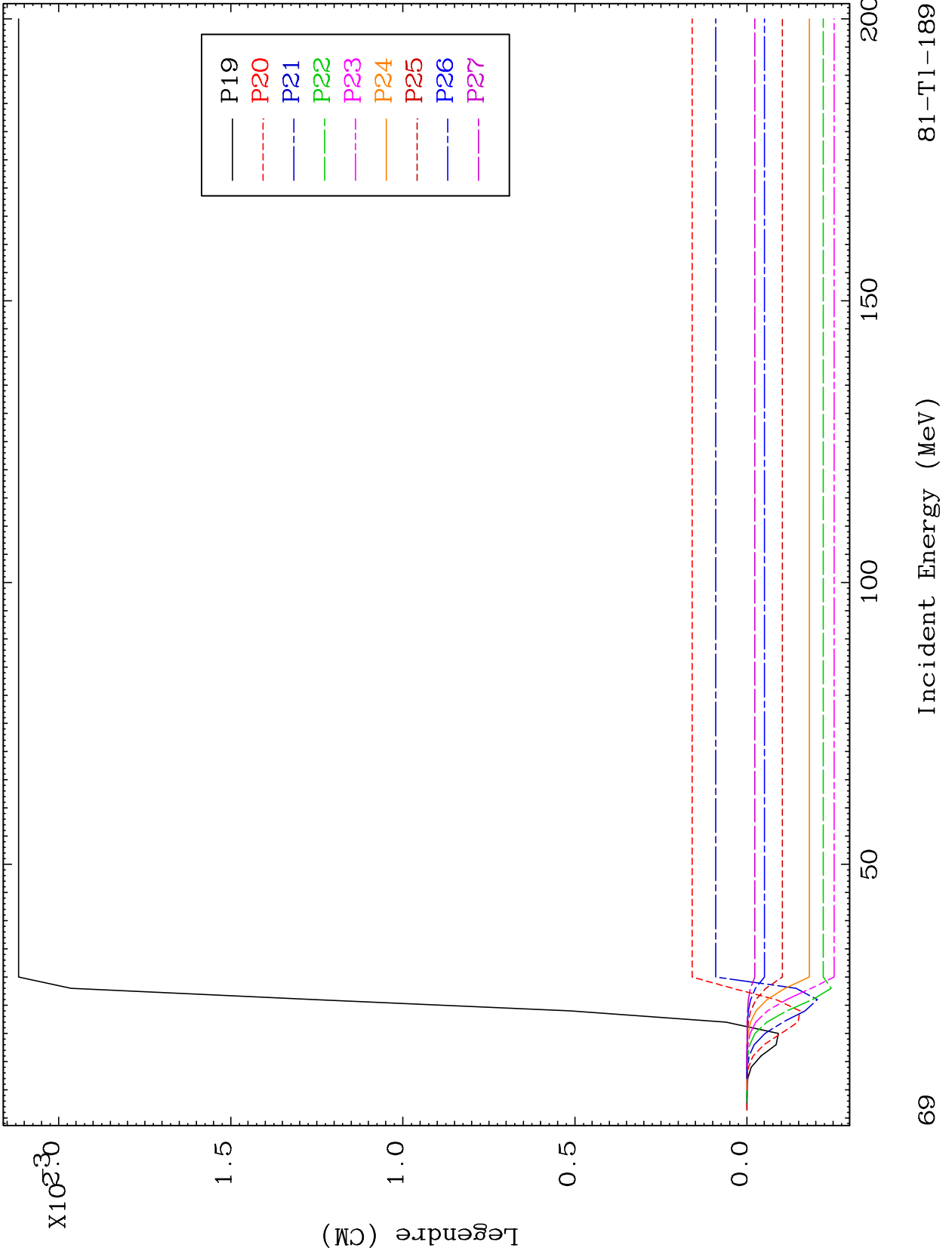
81-Tl-189

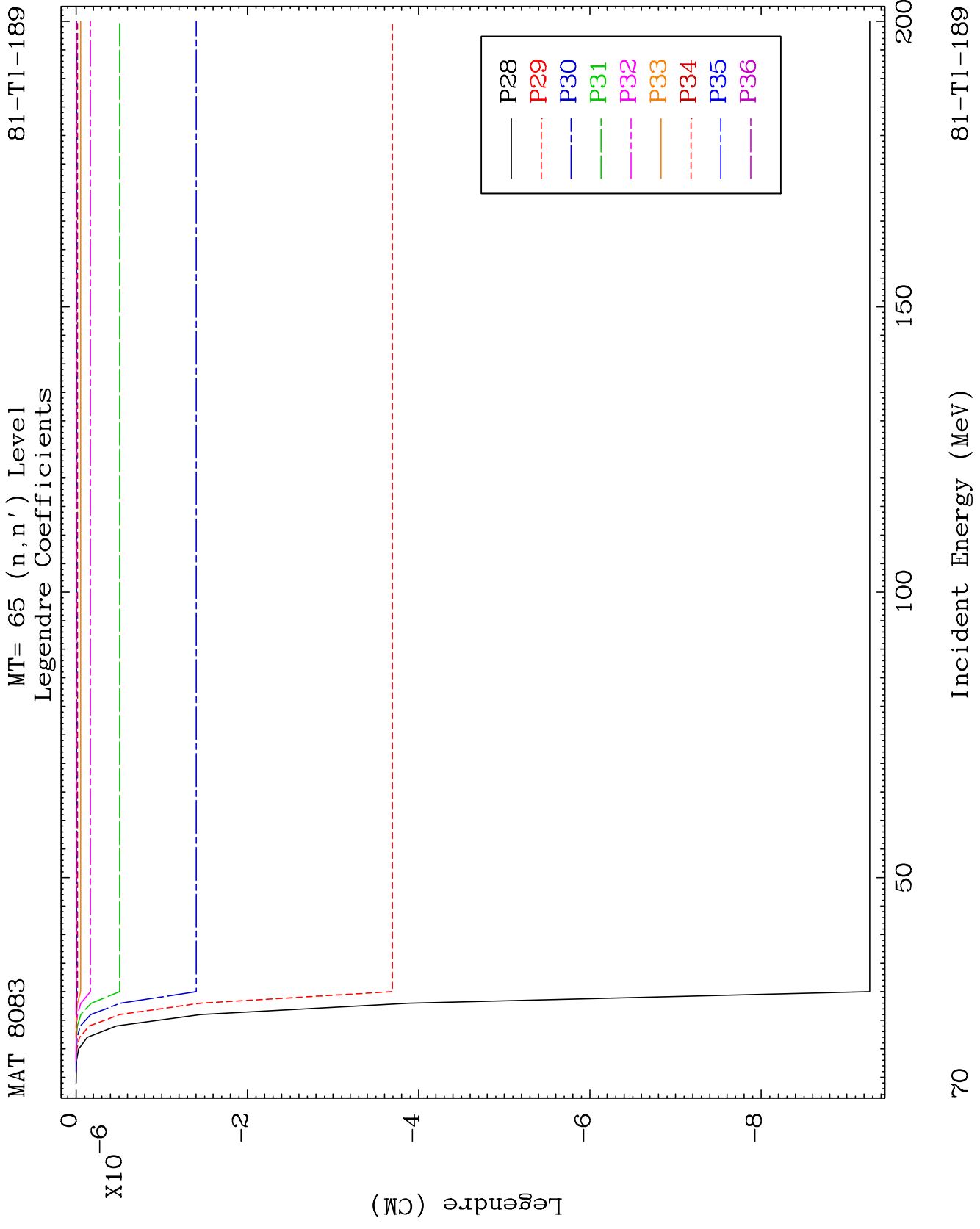


68

Incident Energy (MeV)

81-Tl-189

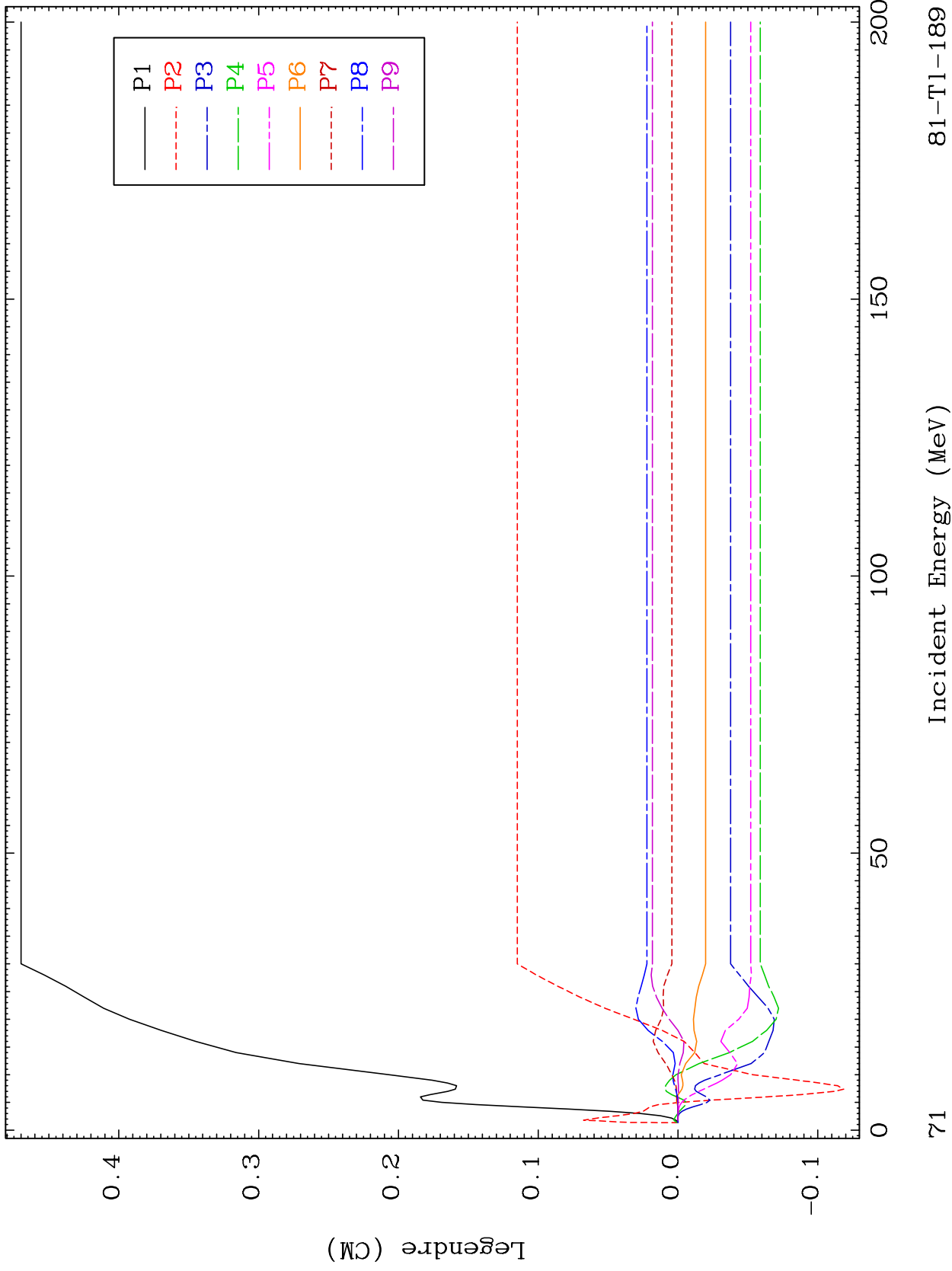




MAT 8083

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

81-Tl-189



81-Tl-189

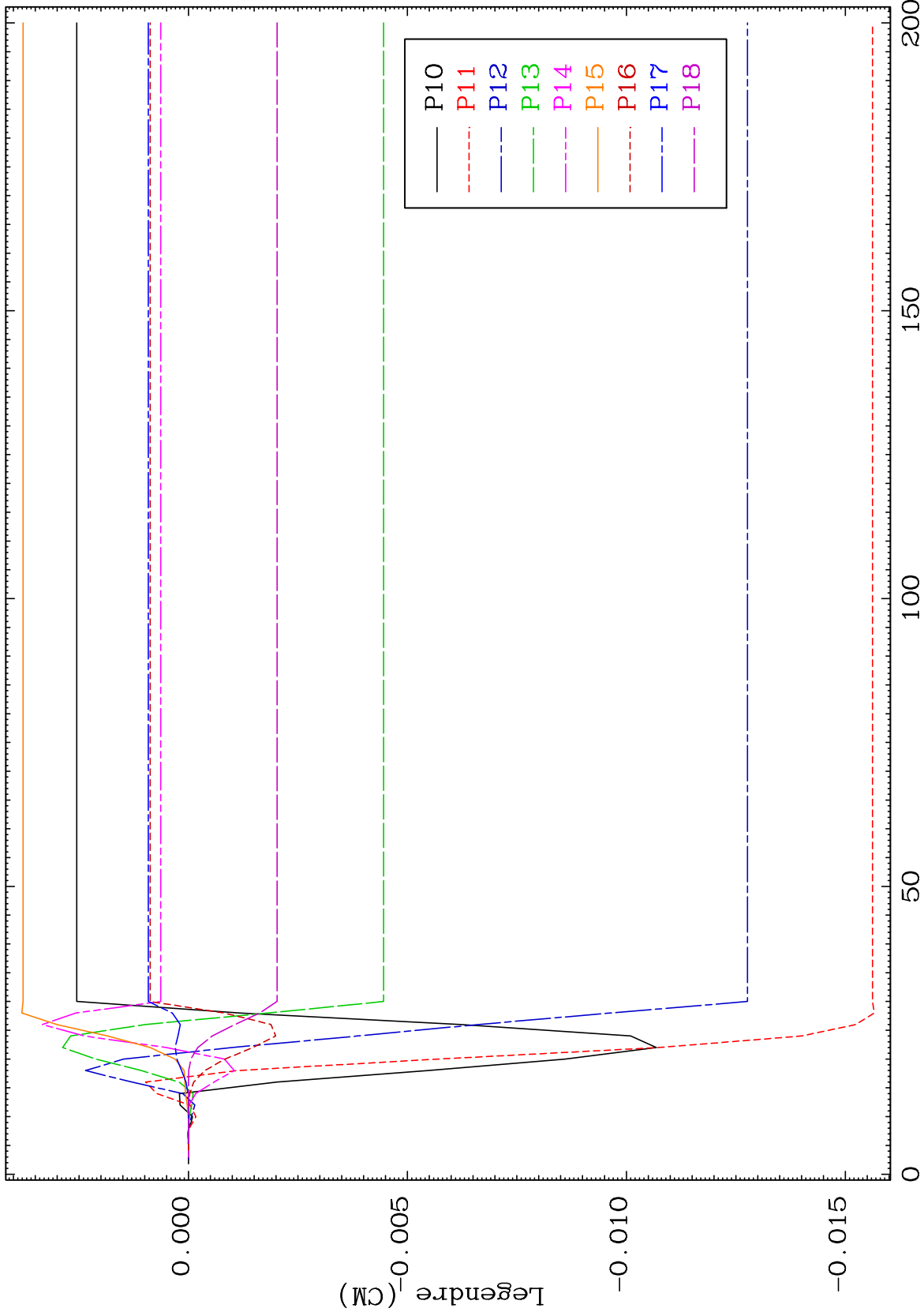
Incident Energy (MeV)

71

MAT 8083

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

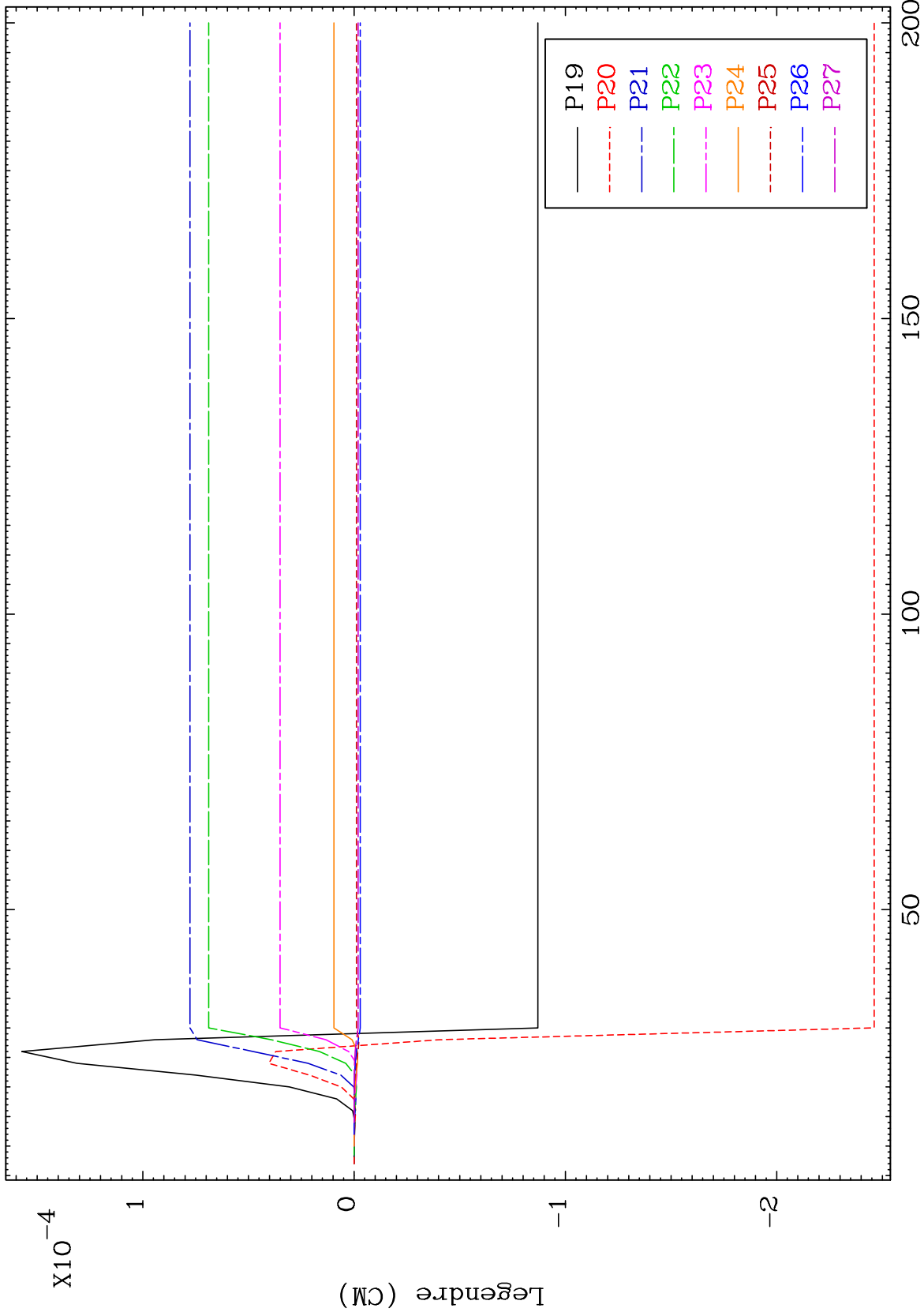
81-Tl-189



72

Incident Energy (MeV)

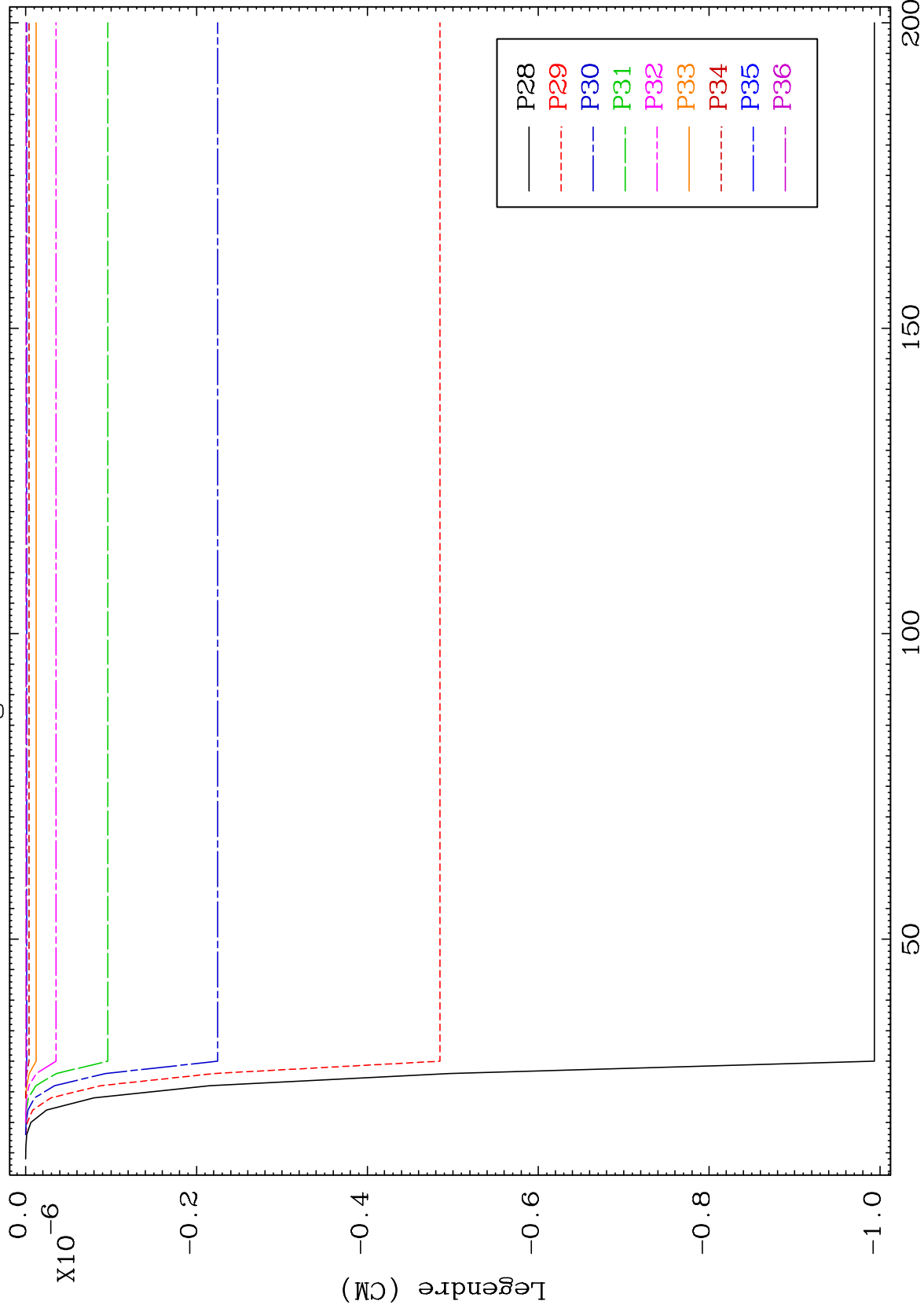
81-Tl-189



MAT 8083

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

81-Tl-189



74

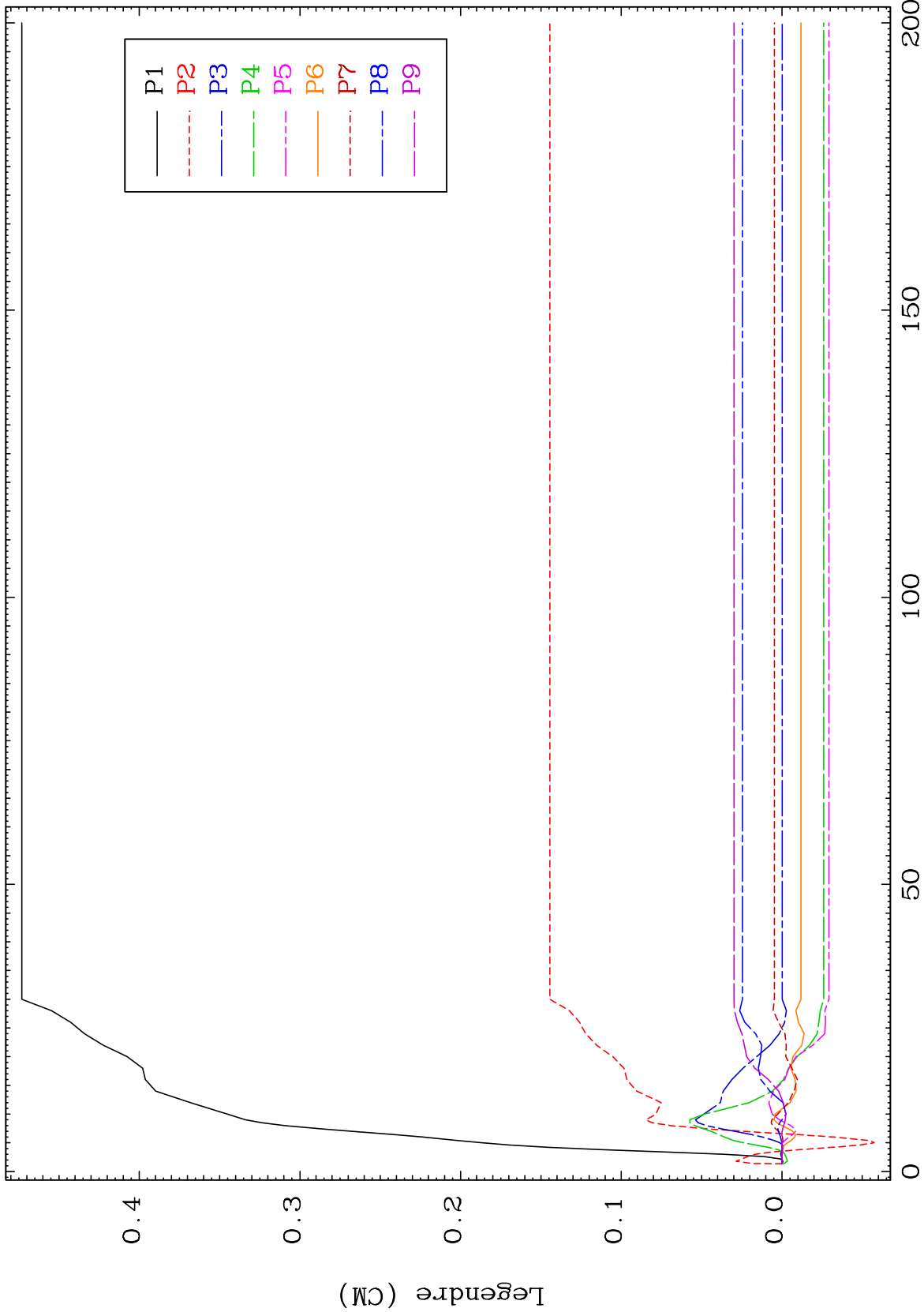
Incident Energy (MeV)

81-Tl-189

MAT 8083

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

81-Tl-189



75

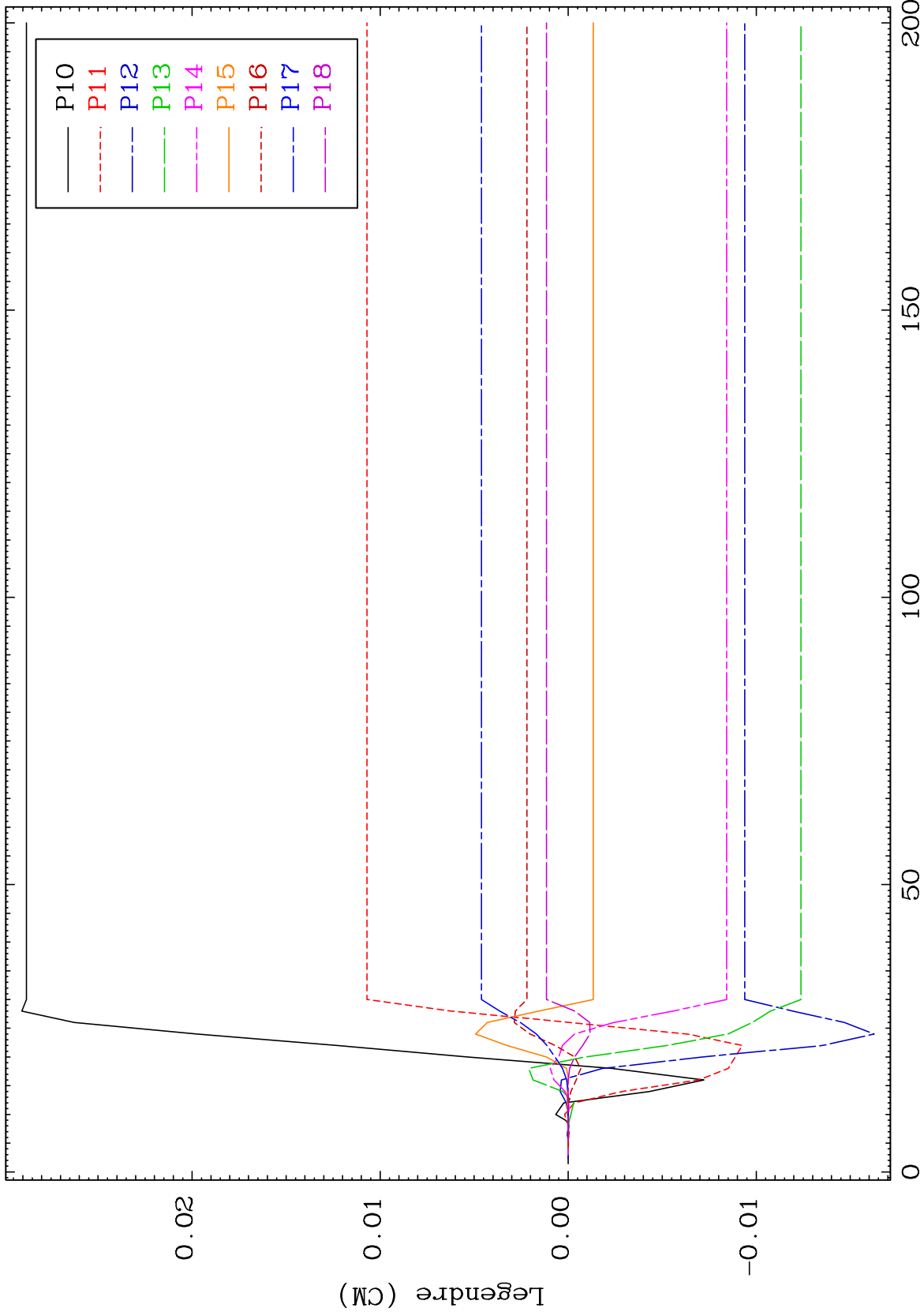
Incident Energy (MeV)

81-Tl-189

MAT 8083

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

81-T1-189



76

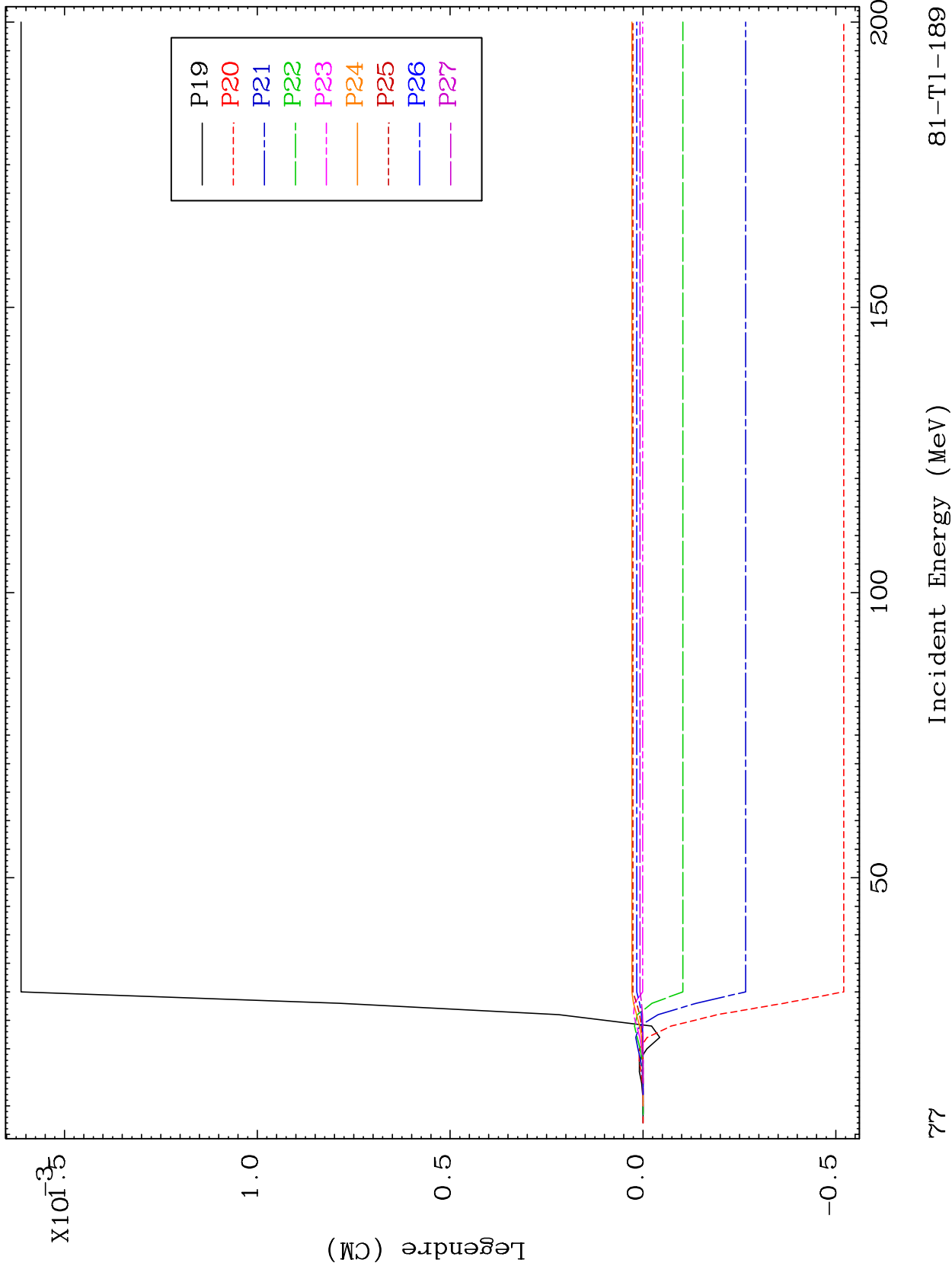
Incident Energy (MeV)

81-T1-189

MAT 8083

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

81-Tl-189



77

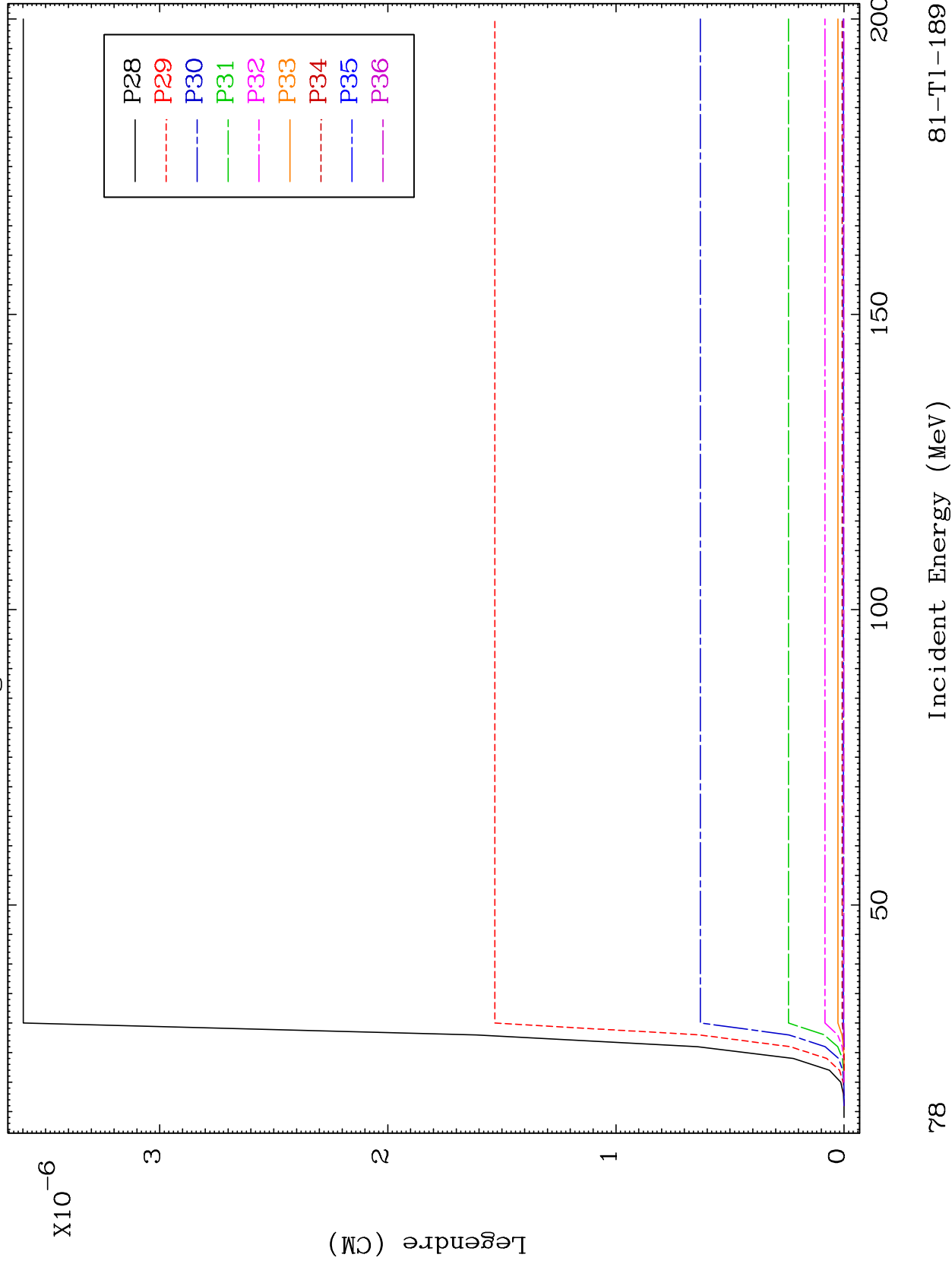
Incident Energy (MeV)

81-Tl-189

MAT 8083

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

81-Tl-189



78

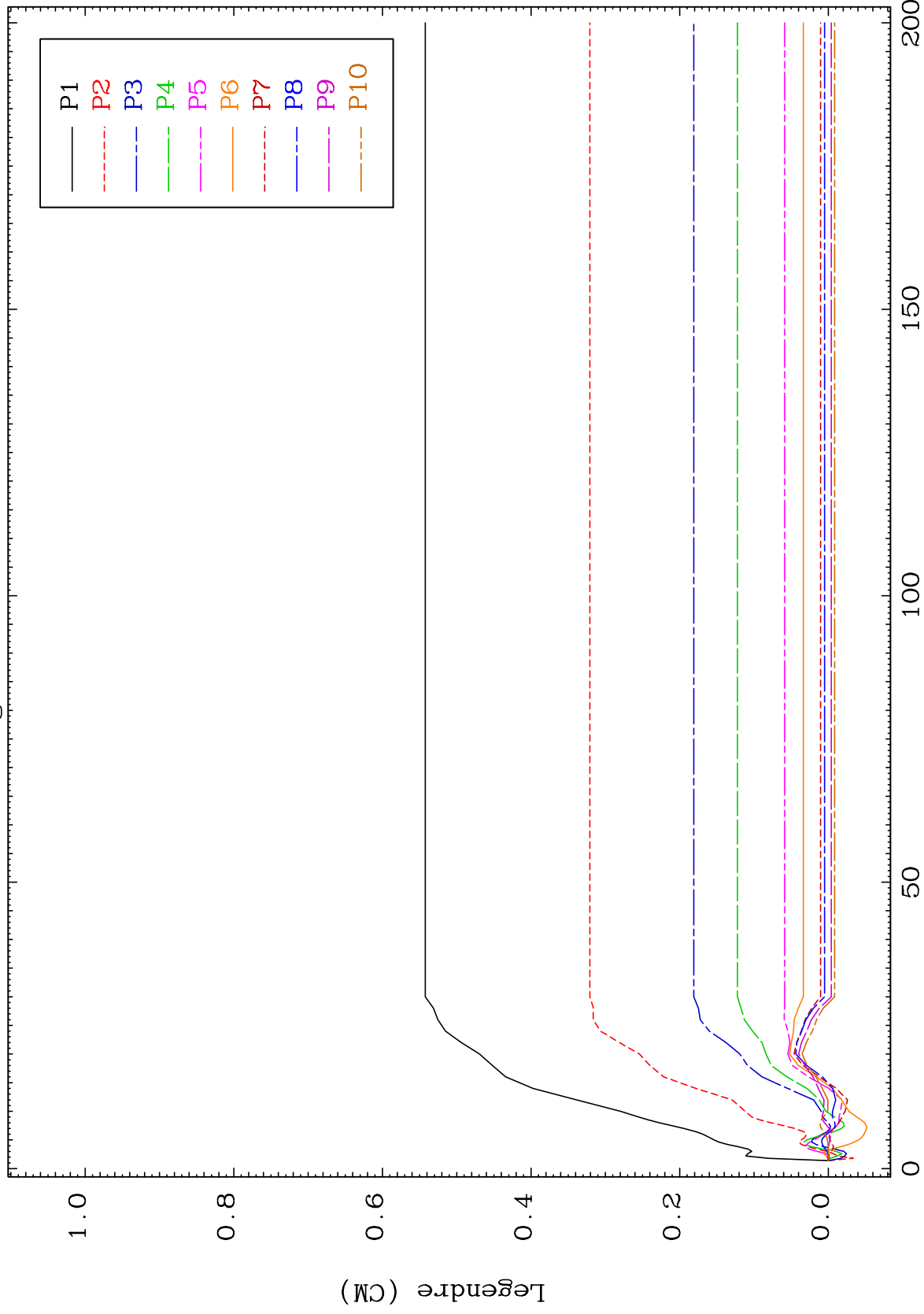
Incident Energy (MeV)

81-Tl-189

MAT 8083

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

81-Tl-189



79

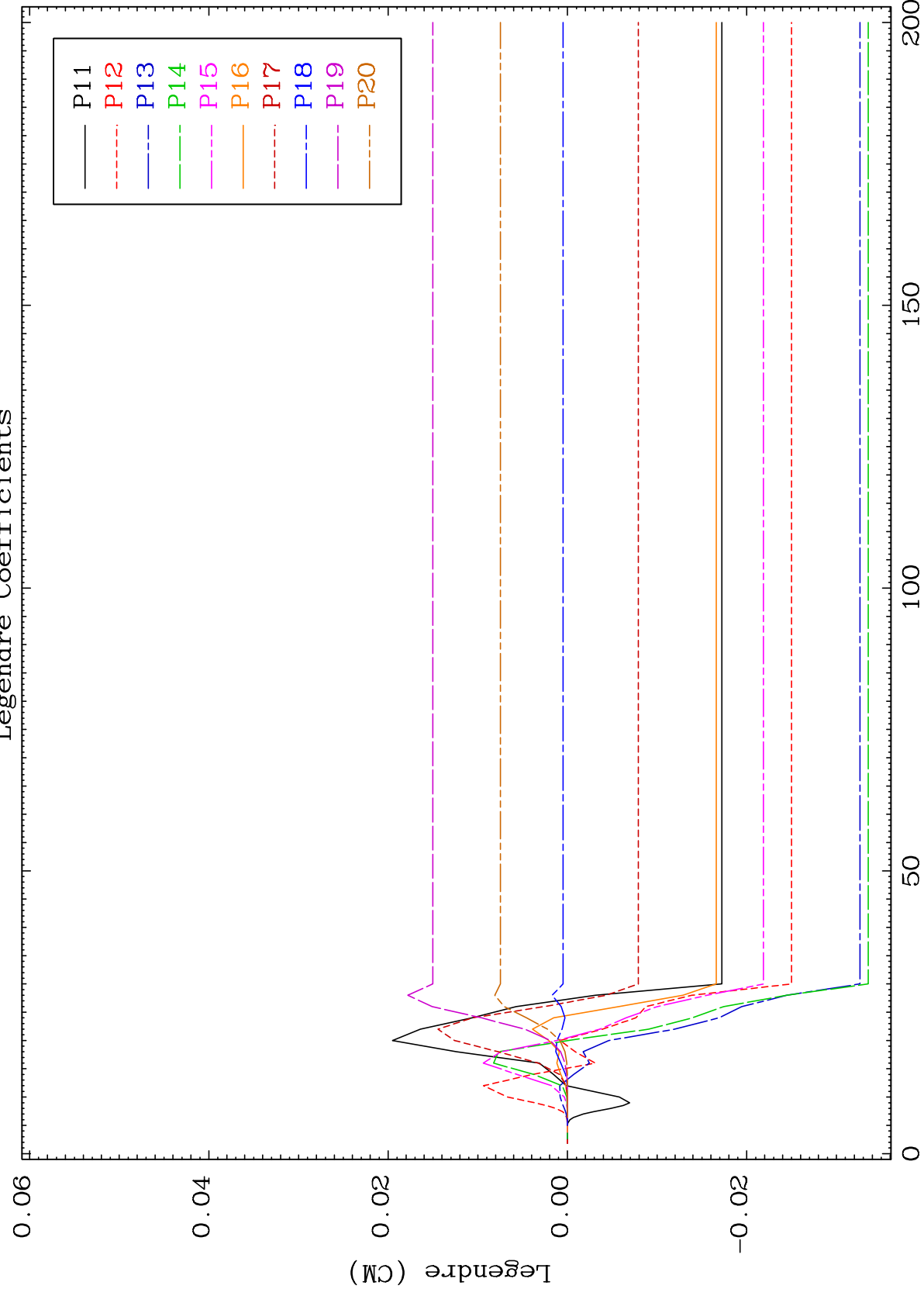
Incident Energy (MeV)

81-Tl-189

MAT 8083

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

81-Tl-189



80

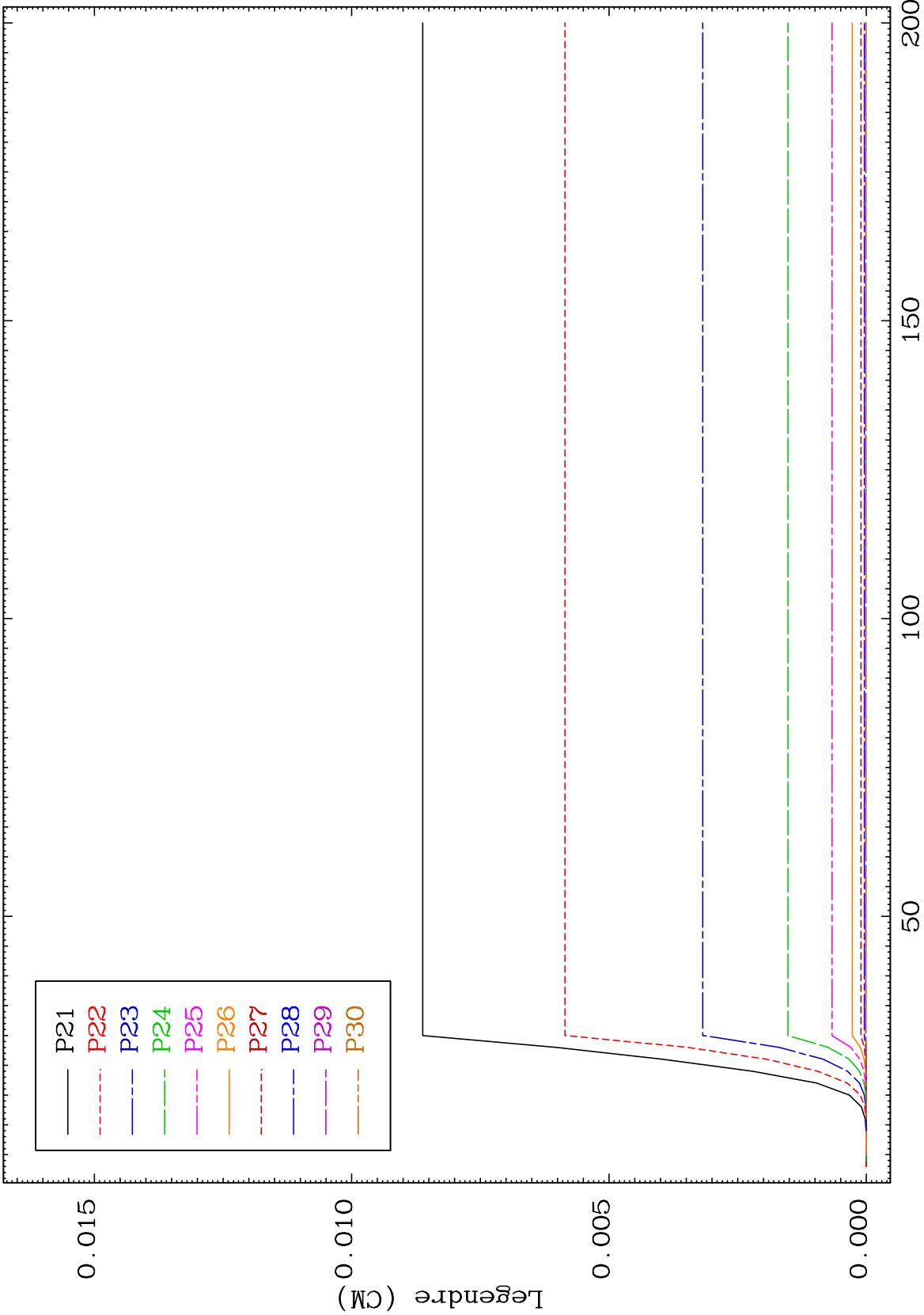
Incident Energy (MeV)

81-Tl-189

MAT 8083

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

81-Tl-189



81

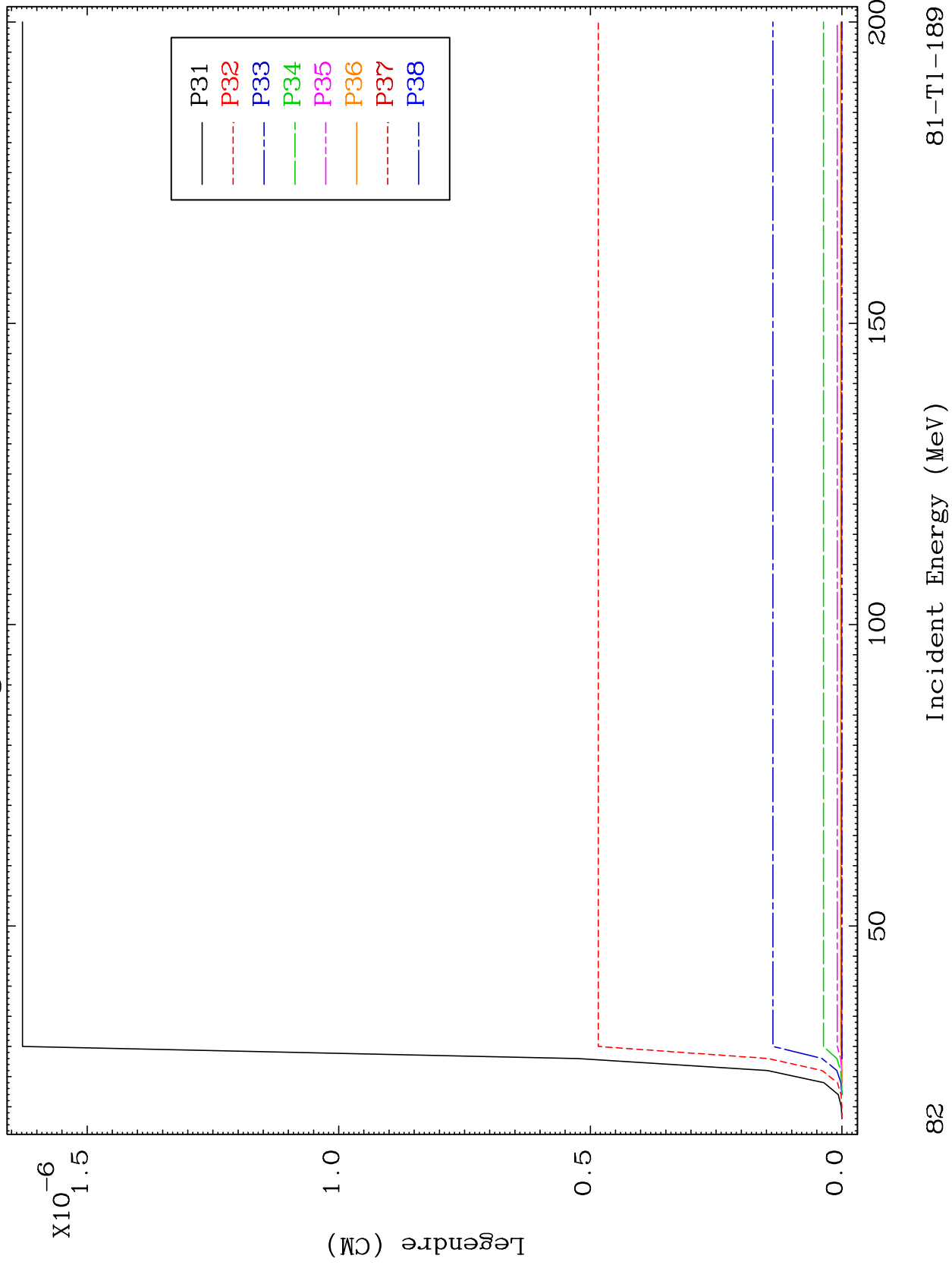
Incident Energy (MeV)

81-Tl-189

MAT 8083

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

81-Tl-189

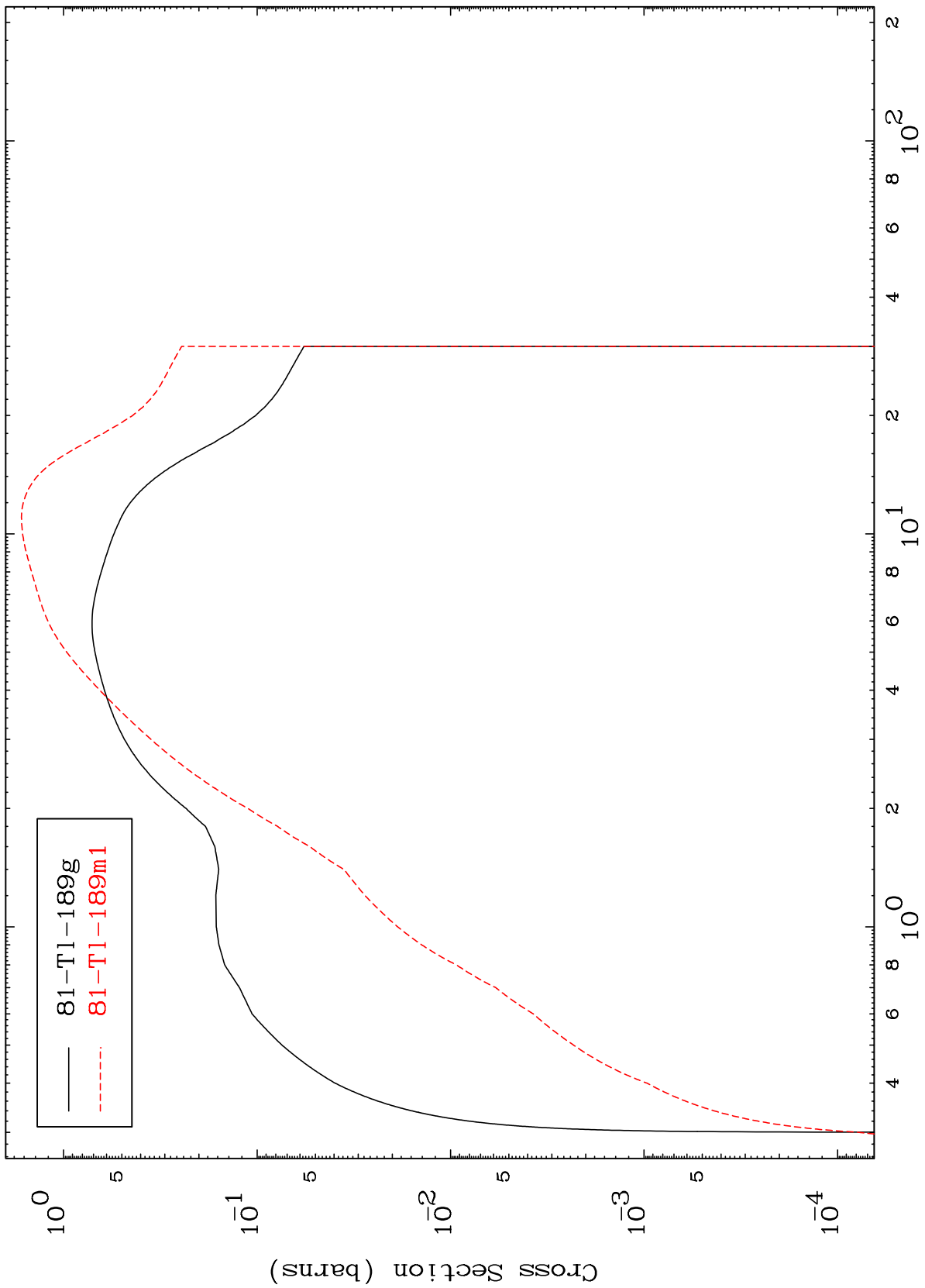


82

Incident Energy (MeV)

81-Tl-189

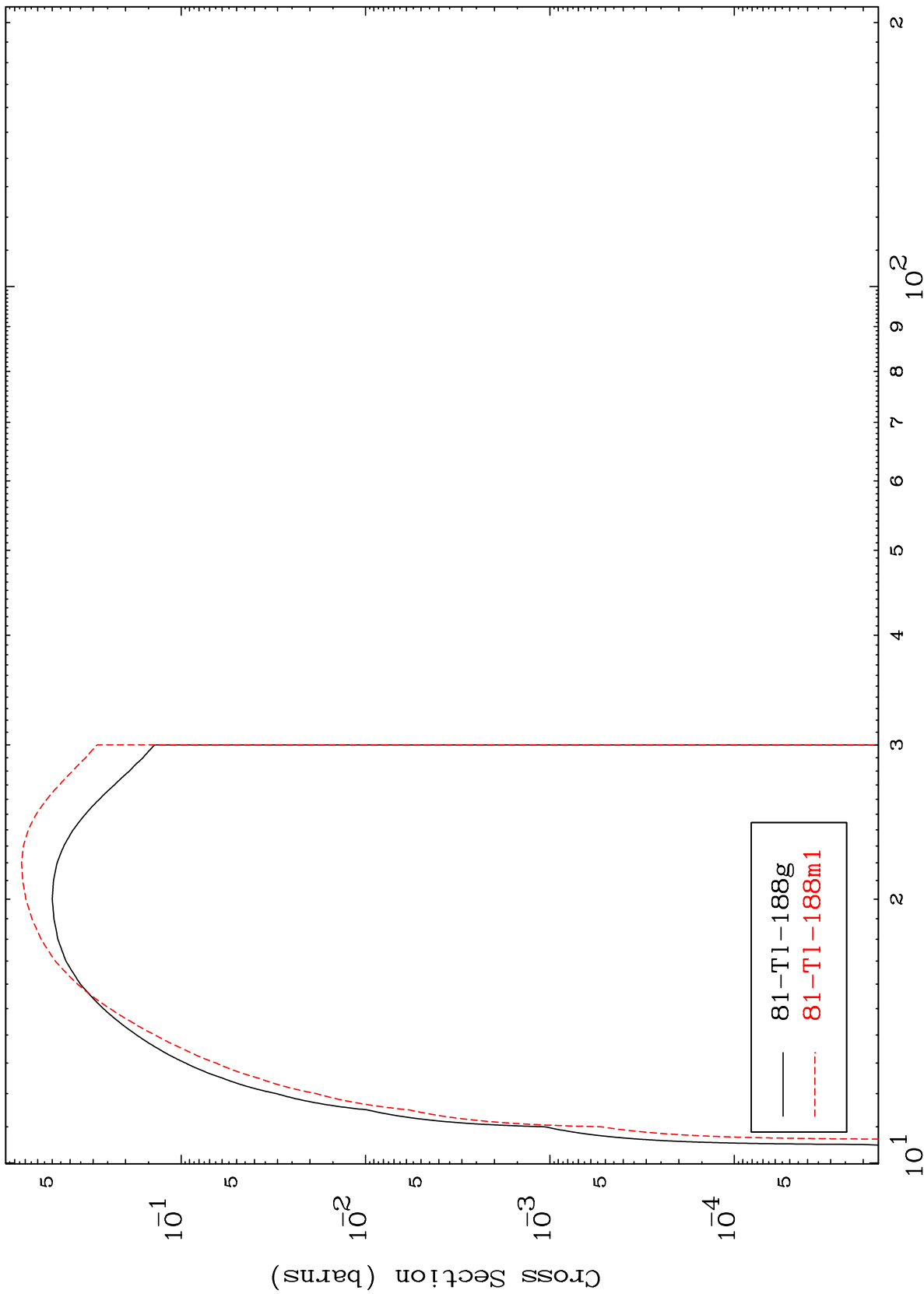
Inelastic
Radionuclide Production Cross Section



MAT 8083

81-Tl-189

Radionuclide Production Cross Section
(n,2n)

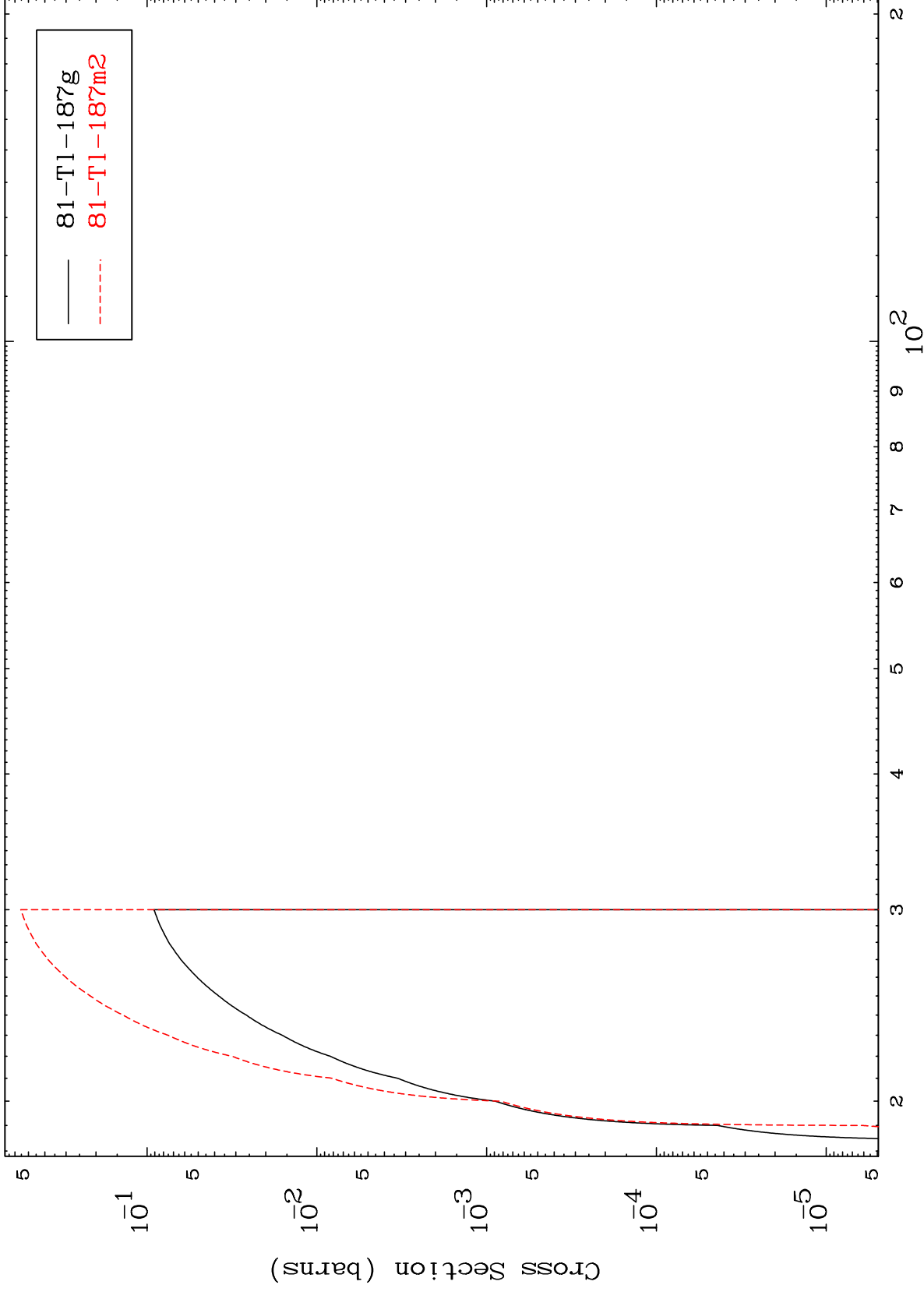


81-Tl-189

Incident Energy (MeV)

84

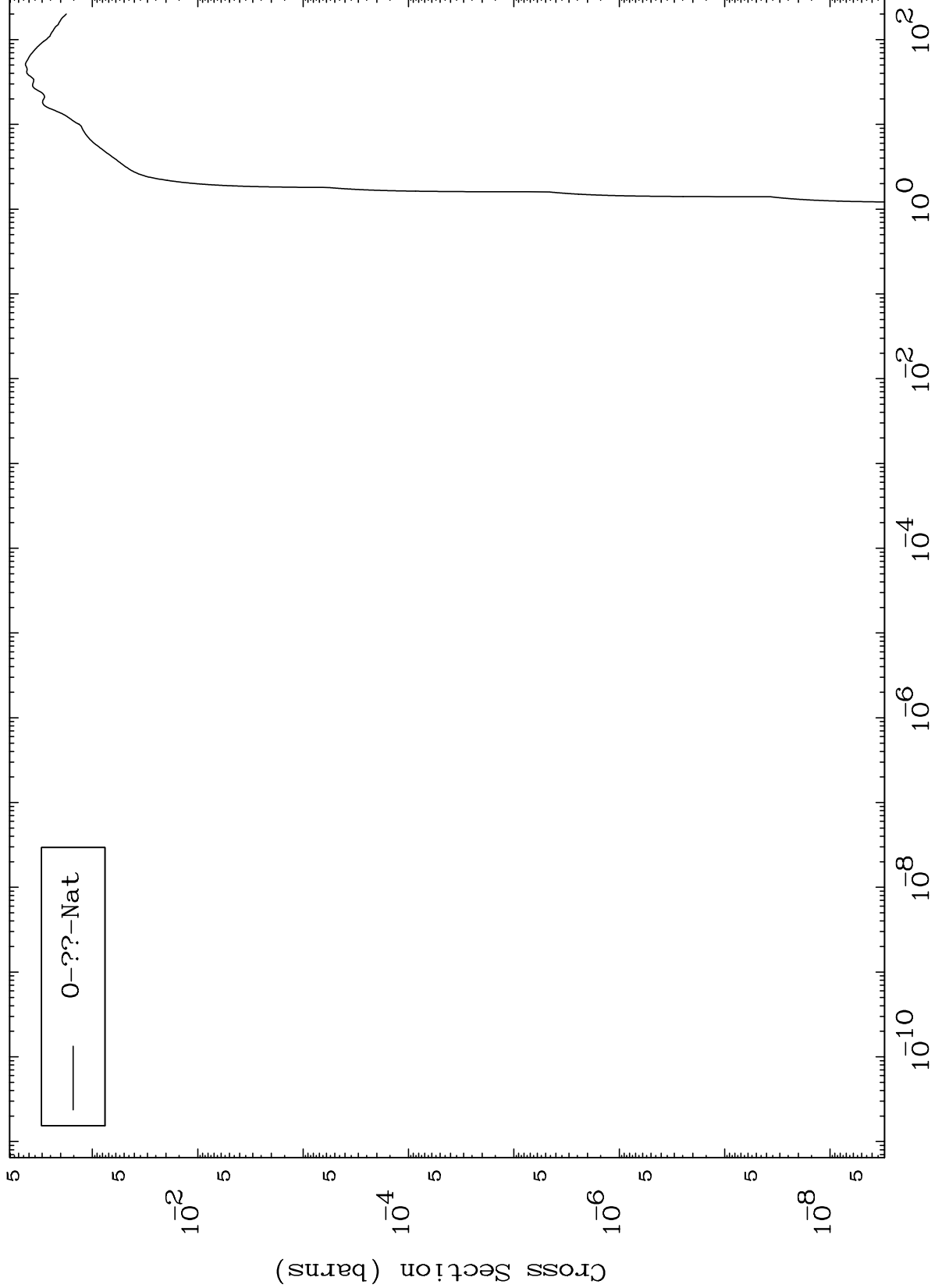
Radionuclide Production Cross Section



MAT 8083

Fission
Radionuclide Production Cross Section

81-Tl-189



86

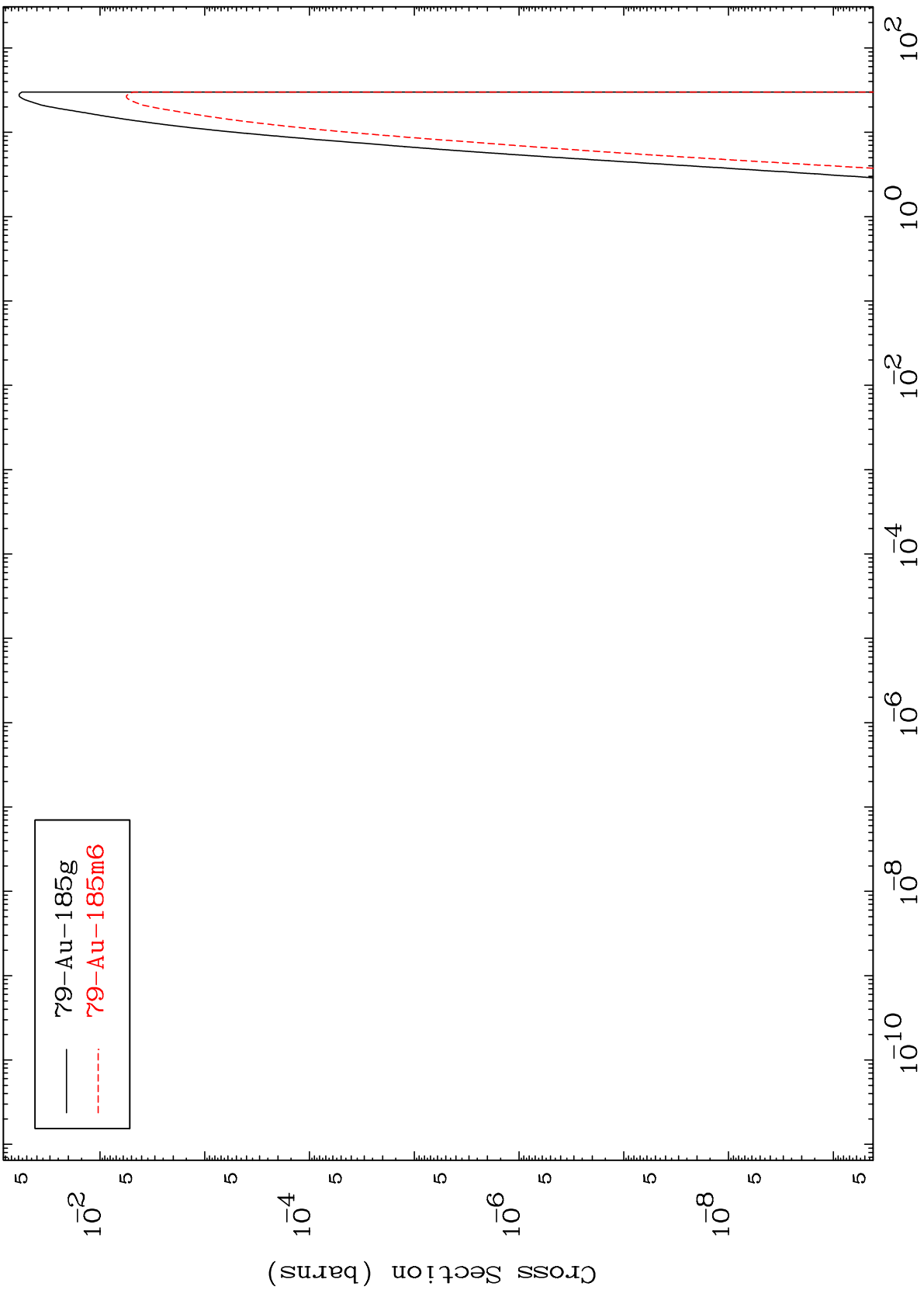
81-Tl-189

MAT 8083

(n, n') α

81-Tl-189

Radionuclide Production Cross Section



87

Incident Energy (MeV)

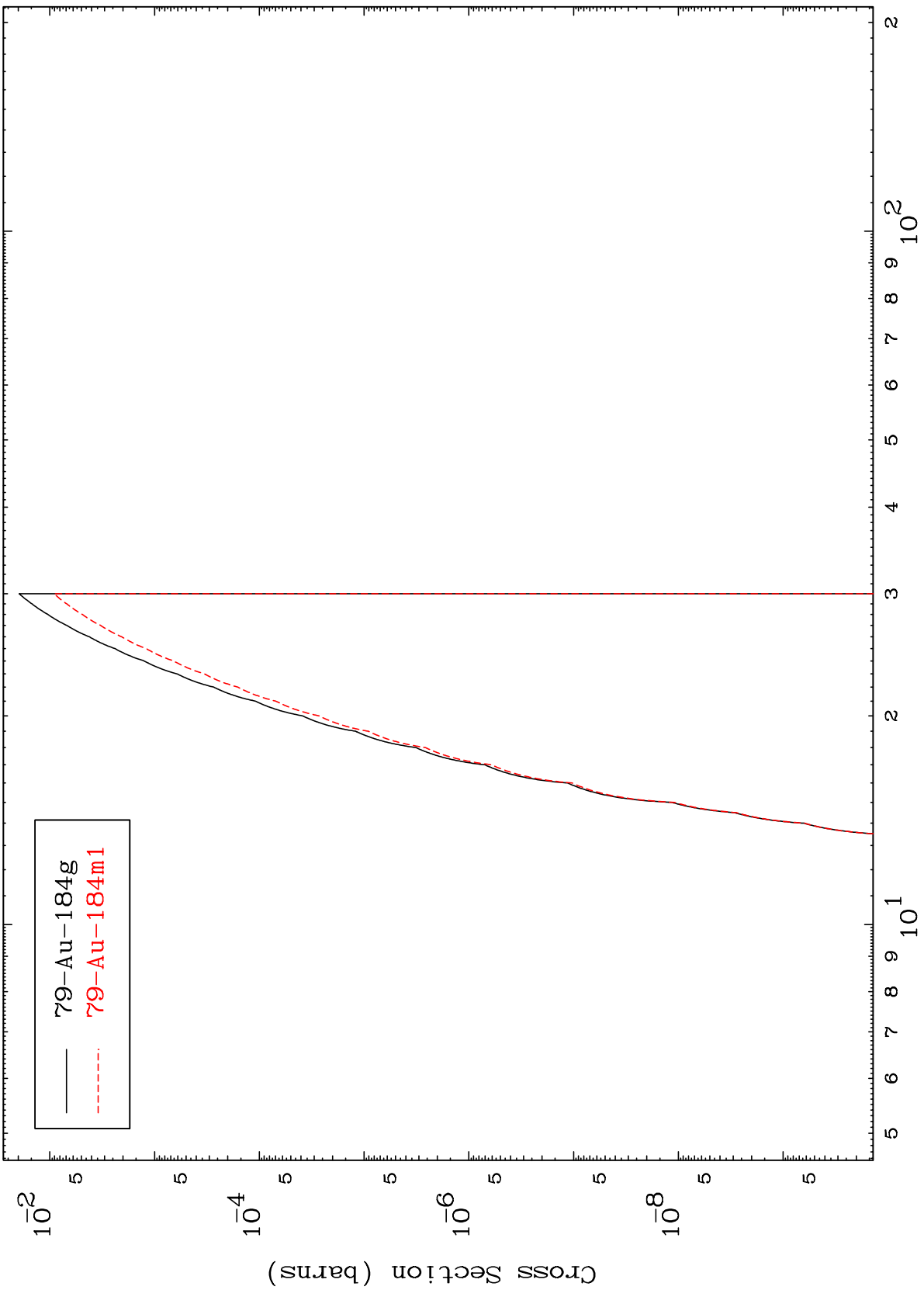
81-Tl-189

MAT 8083

(n,2n) α

81-Tl-189

Radionuclide Production Cross Section



88

Incident Energy (MeV)

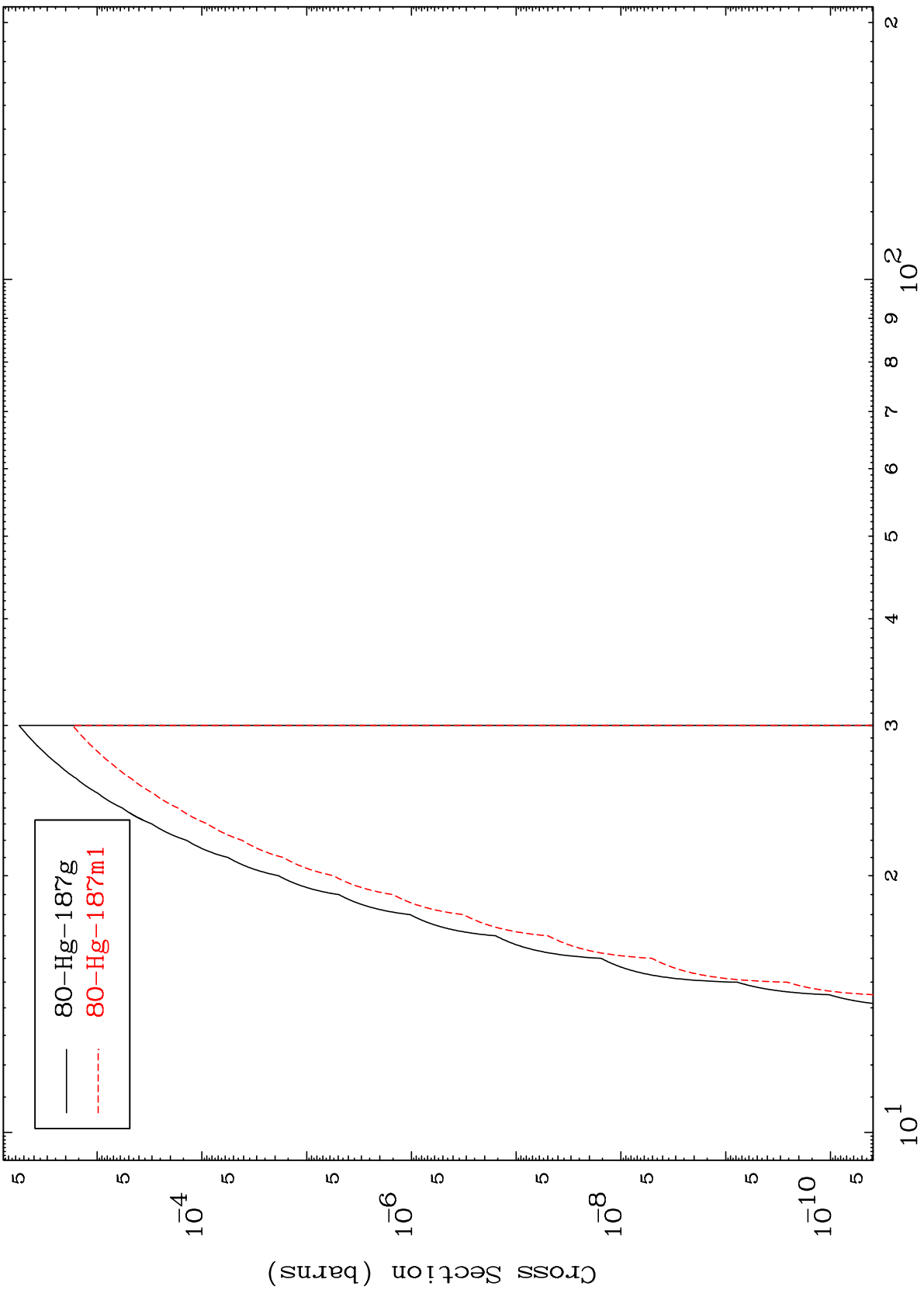
81-Tl-189

MAT 8083

(n,n') d

81-Tl-189

Radionuclide Production Cross Section



89

Incident Energy (MeV)

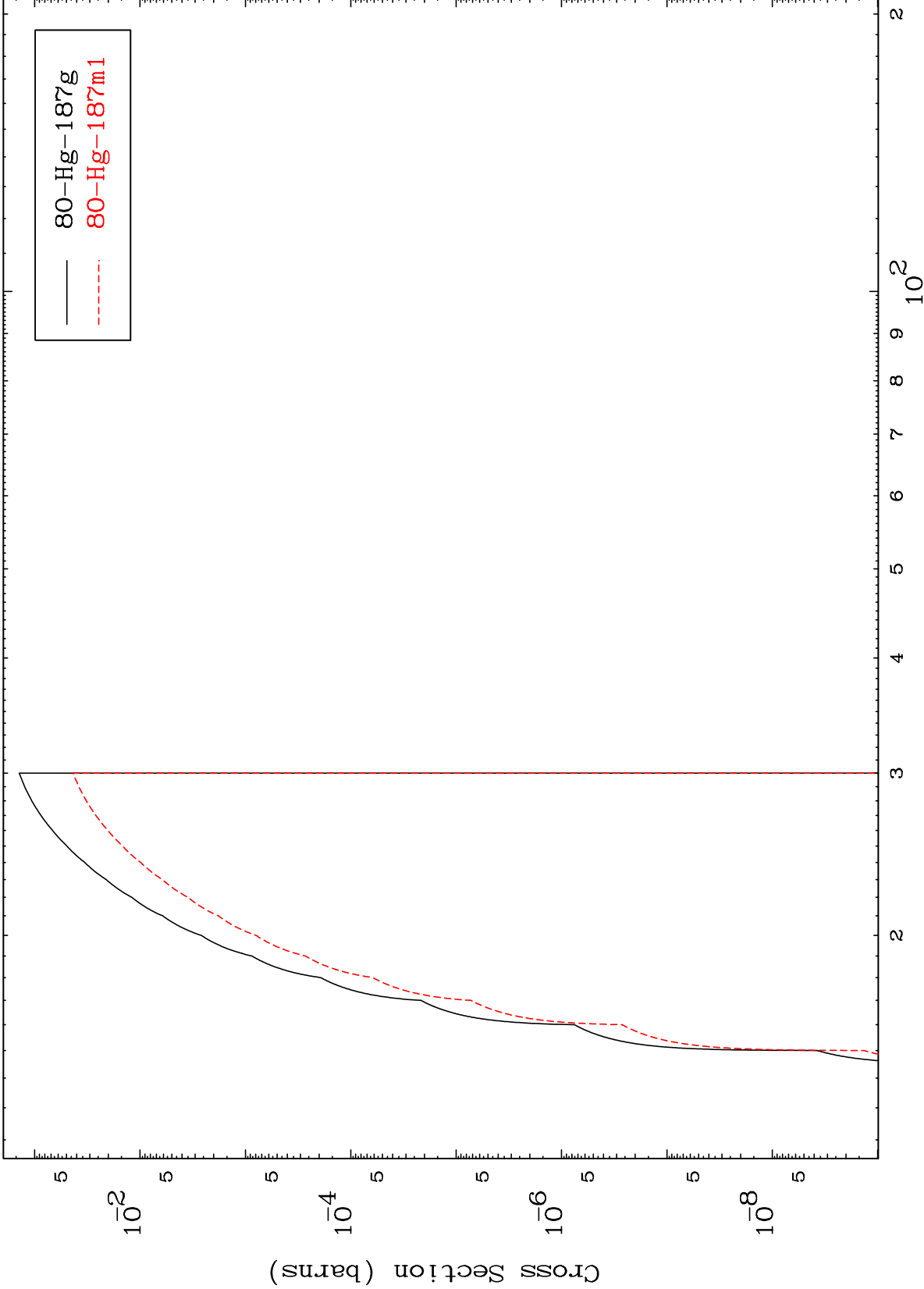
81-Tl-189

MAT 8083

(n,2n) p

81-Tl-189

Radionuclide Production Cross Section



90

Incident Energy (MeV)

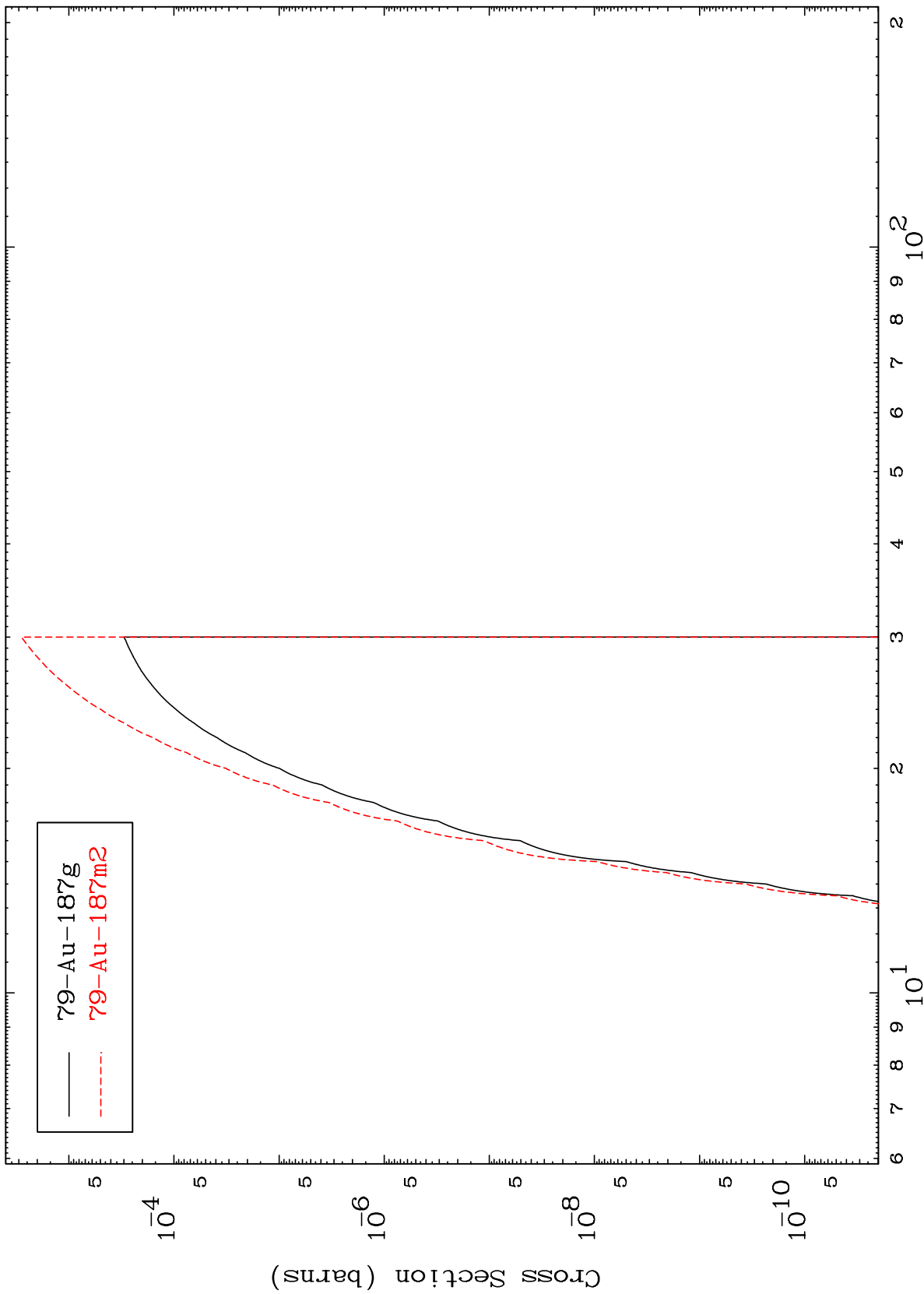
81-Tl-189

MAT 8083

(n,2n) p

81-Tl-189

Radionuclide Production Cross Section



91

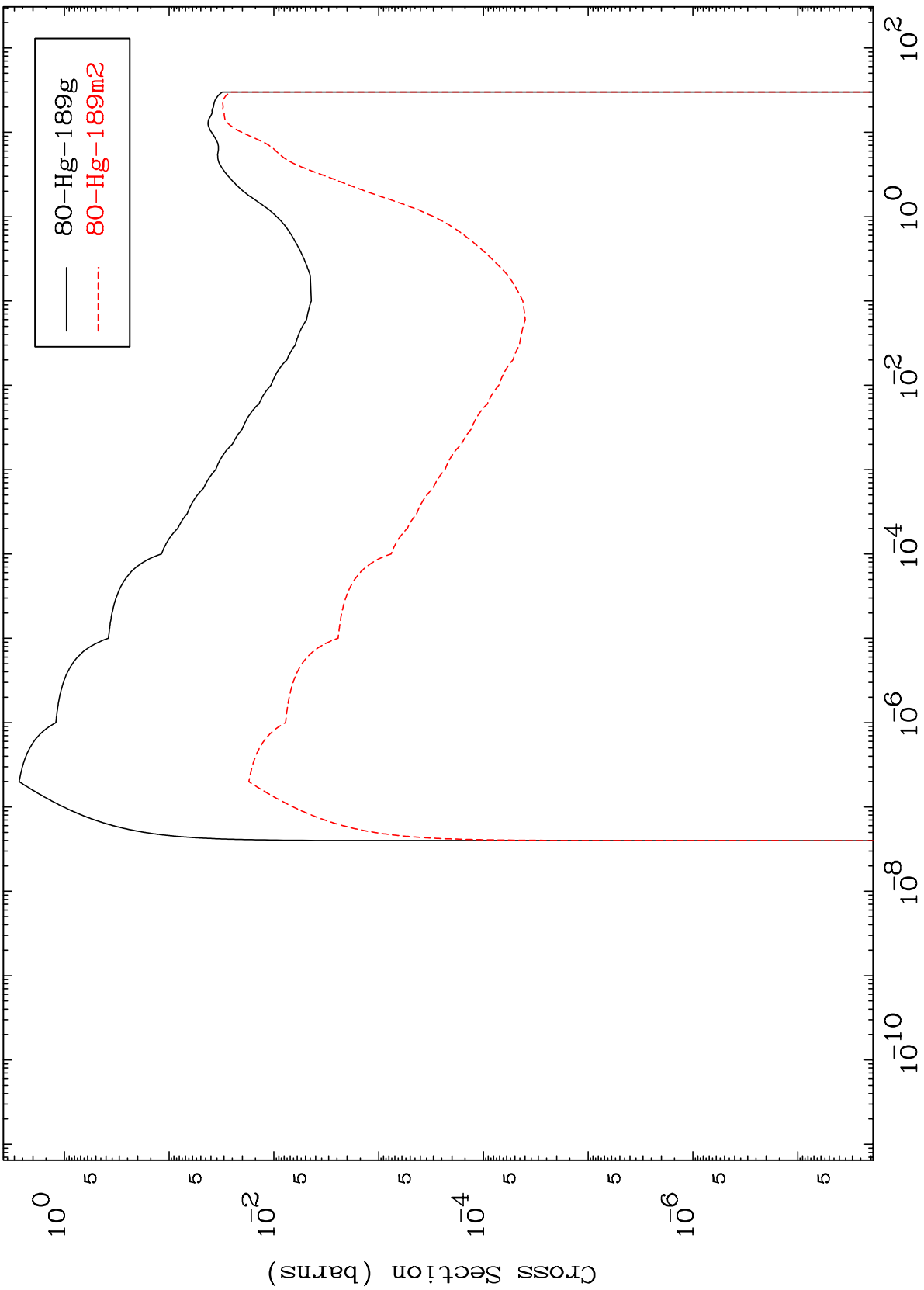
Incident Energy (MeV)

81-Tl-189

MAT 8083

81-Tl-189

(n,p)
Radionuclide Production Cross Section



— 80-Hg-189g
- - - 80-Hg-189m2

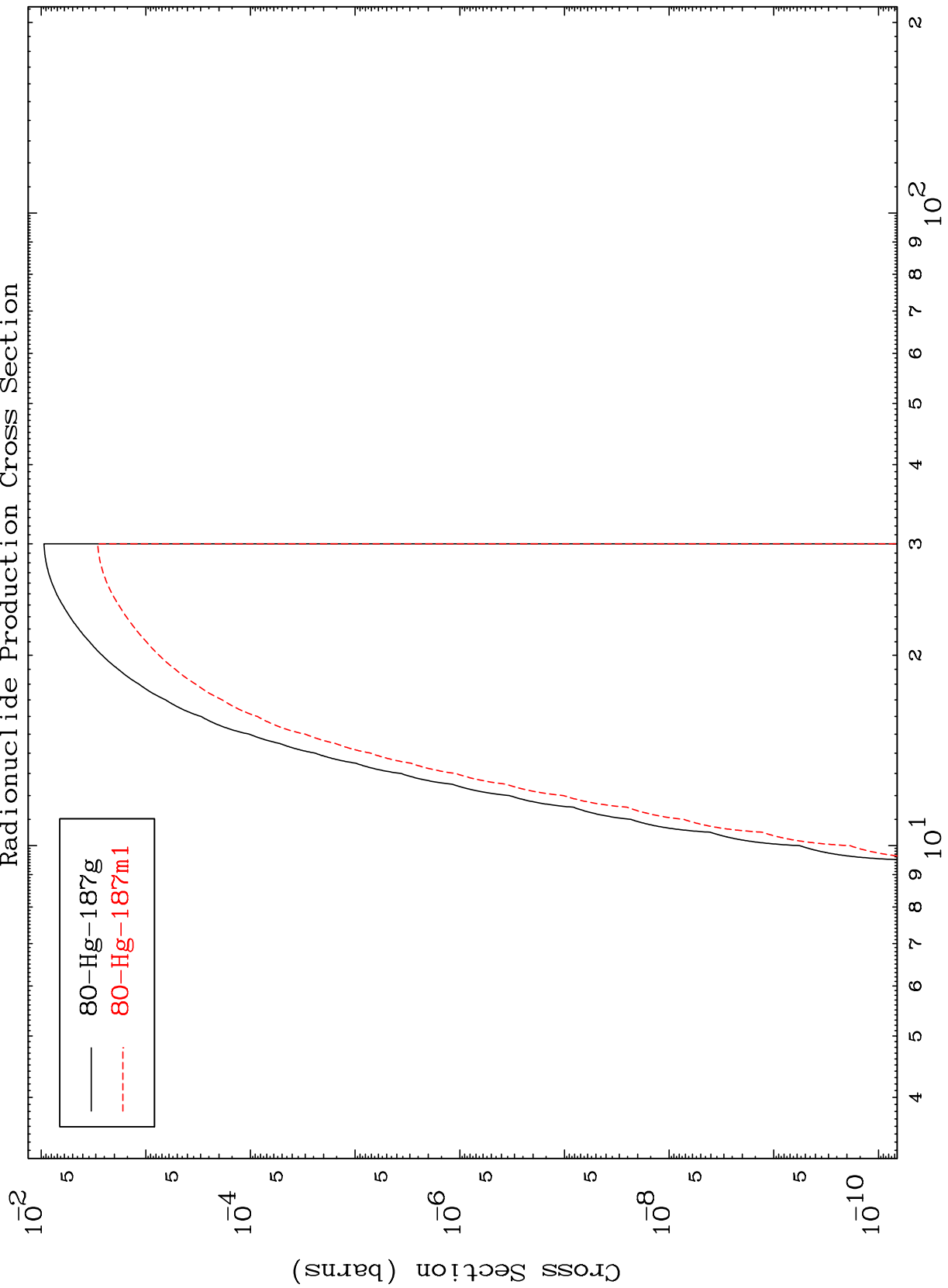
92

81-Tl-189

MAT 8083

81-Tl-189

Radionuclide Production Cross Section (n, t)



80-Hg-187g
80-Hg-187m1

81-Tl-189

Incident Energy (MeV)

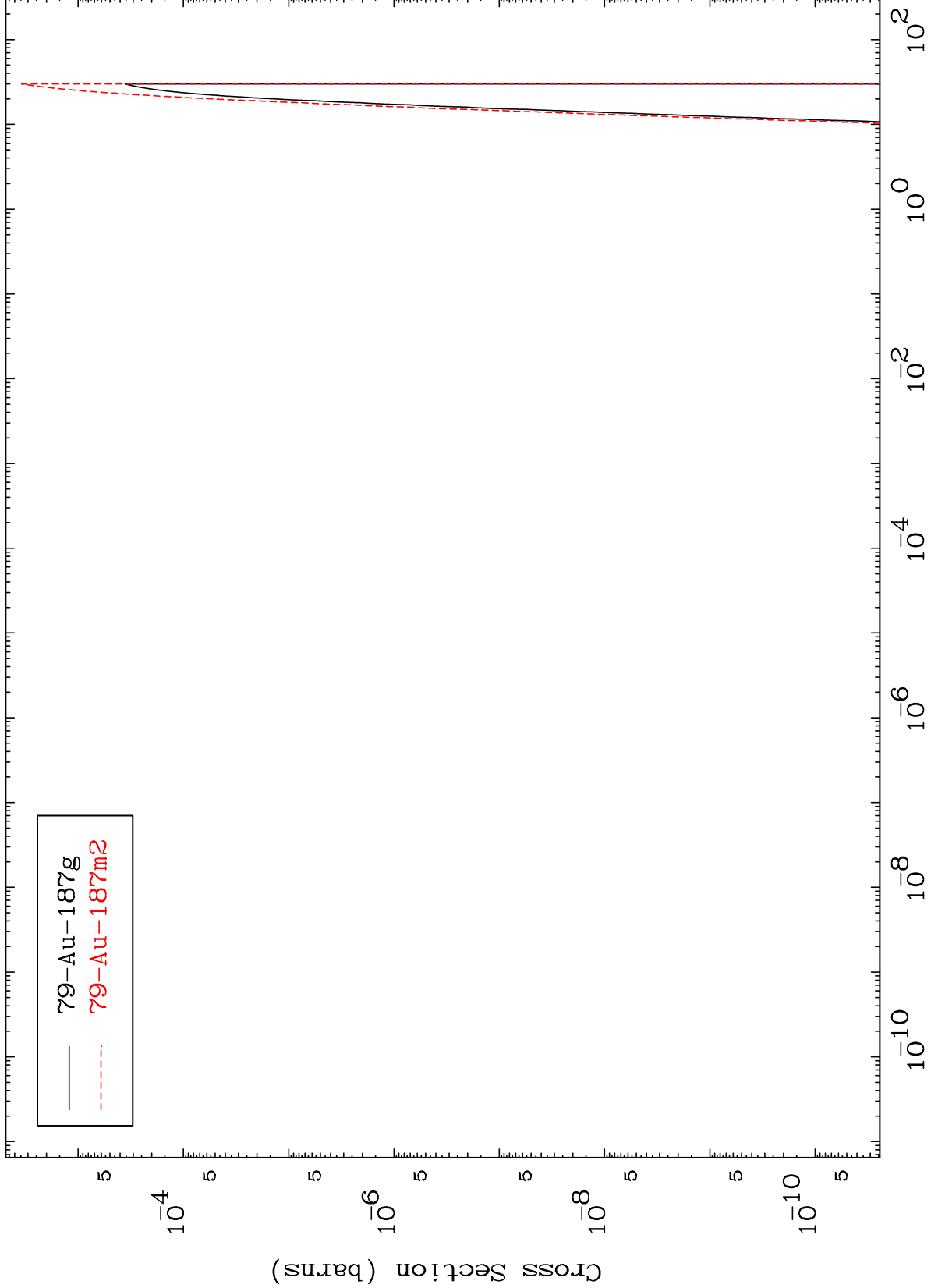
93

MAT 8083

(n,He-3)

81-Tl-189

Radionuclide Production Cross Section



MAT 8083

(n,p) α

81-Tl-189

Radionuclide Production Cross Section

