

Program EVALPLOT  
(Version 2018-1)

by

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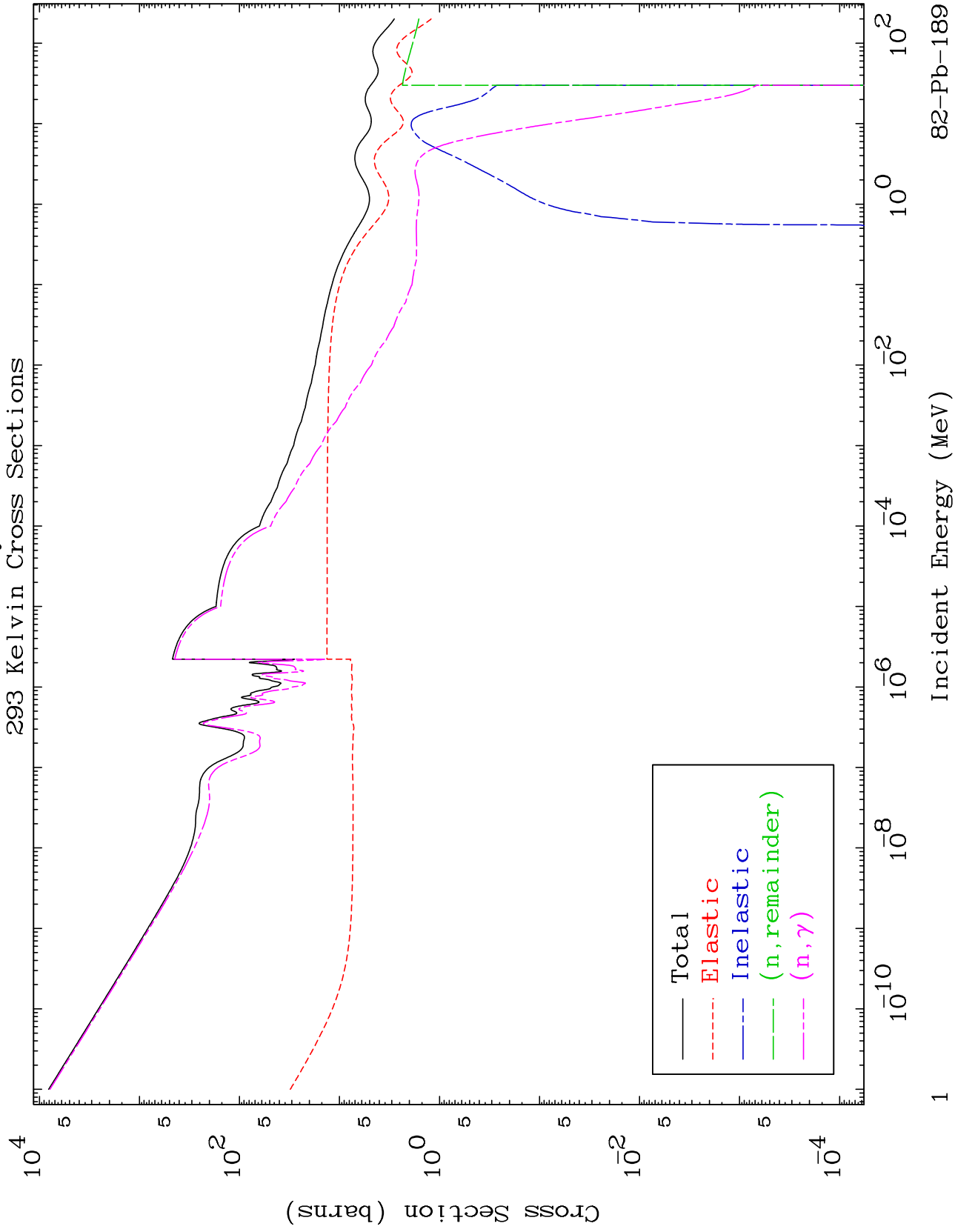
Press Mouse Button to Start

MAT 8180

Major

293 Kelvin Cross Sections

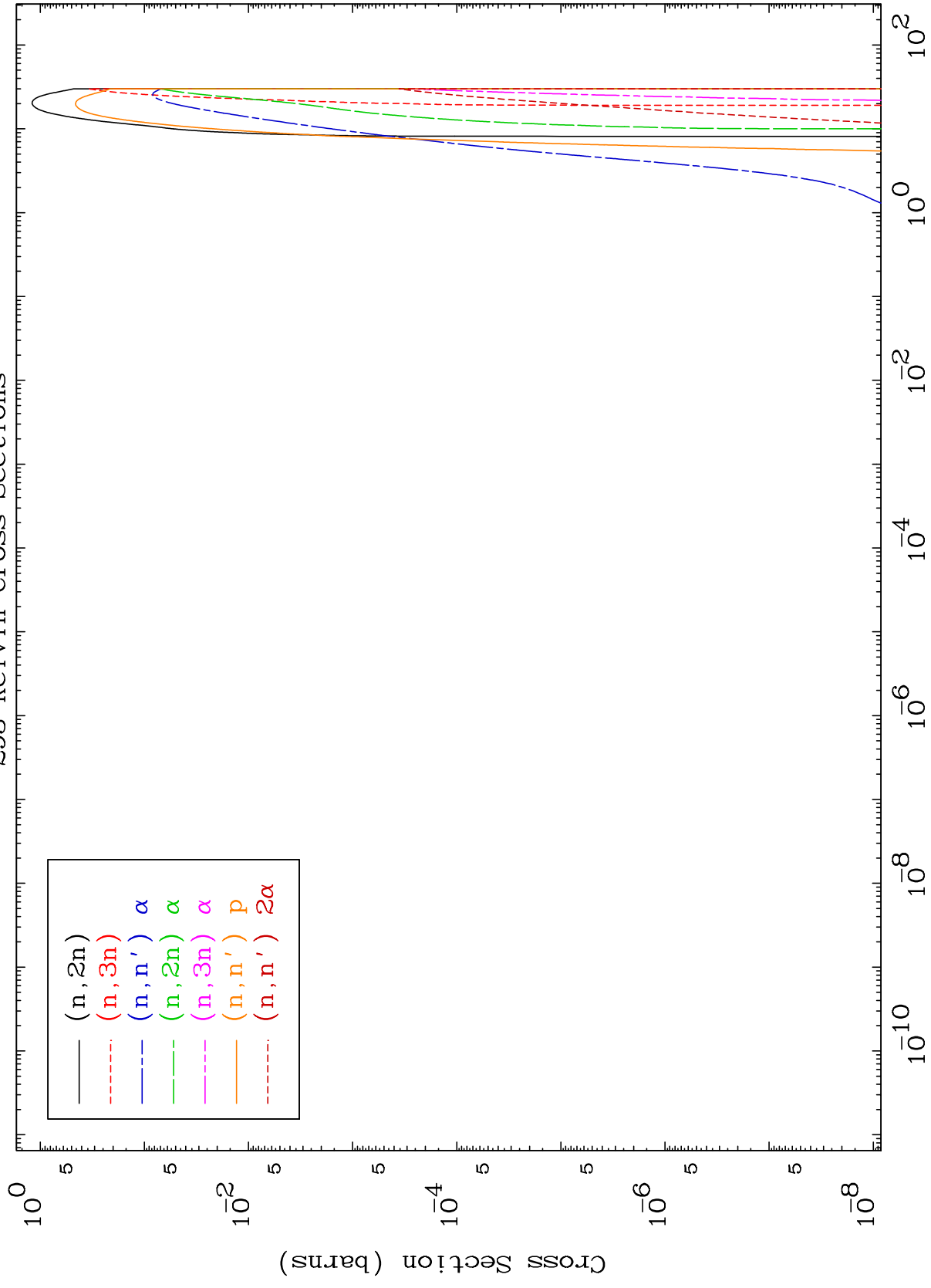
82-Pb-189



MAT 8180

Neutron Production  
293 Kelvin Cross Sections

82-Pb-189



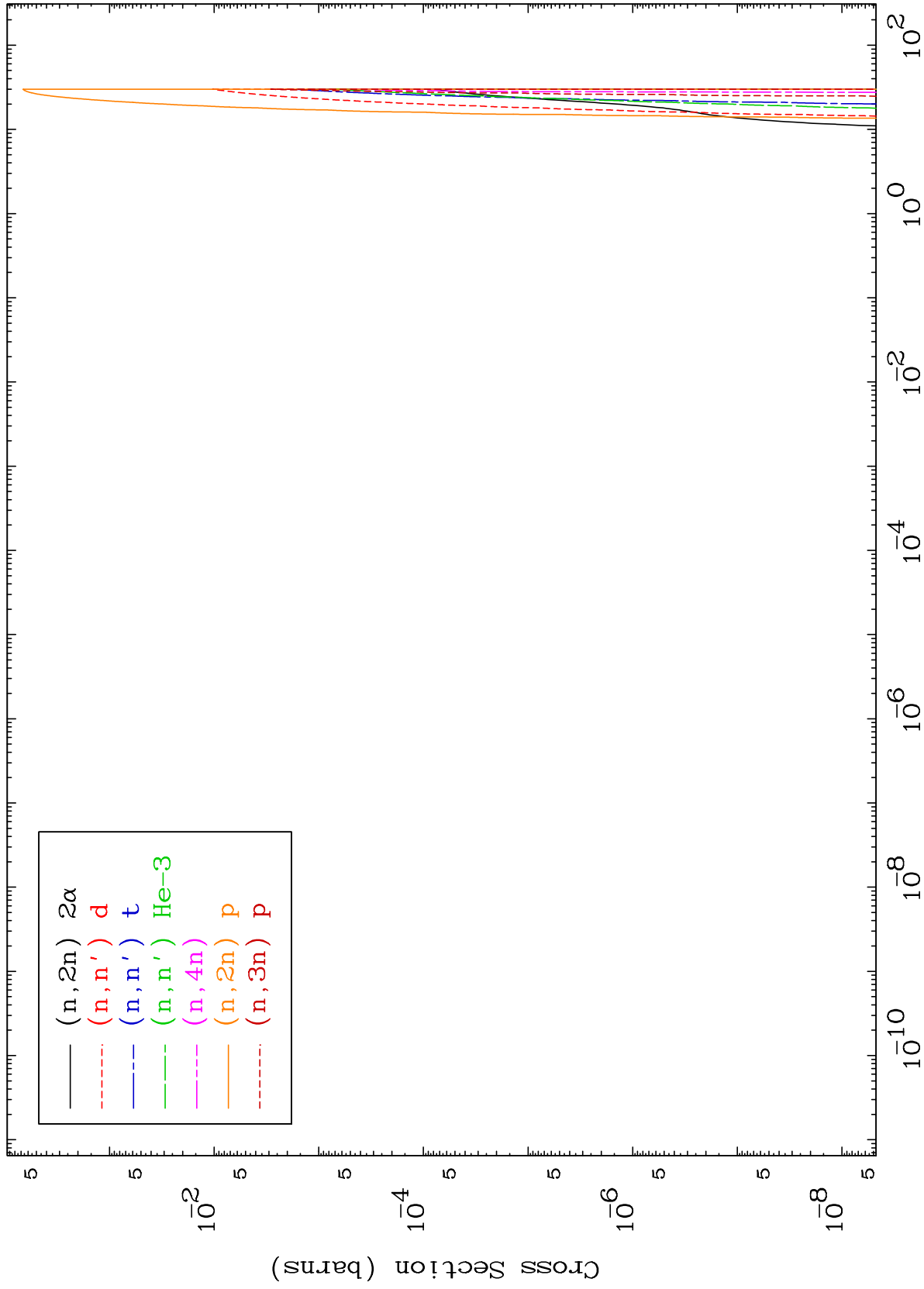
2

82-Pb-189

MAT 8180

Neutron Production  
293 Kelvin Cross Sections

82-Pb-189



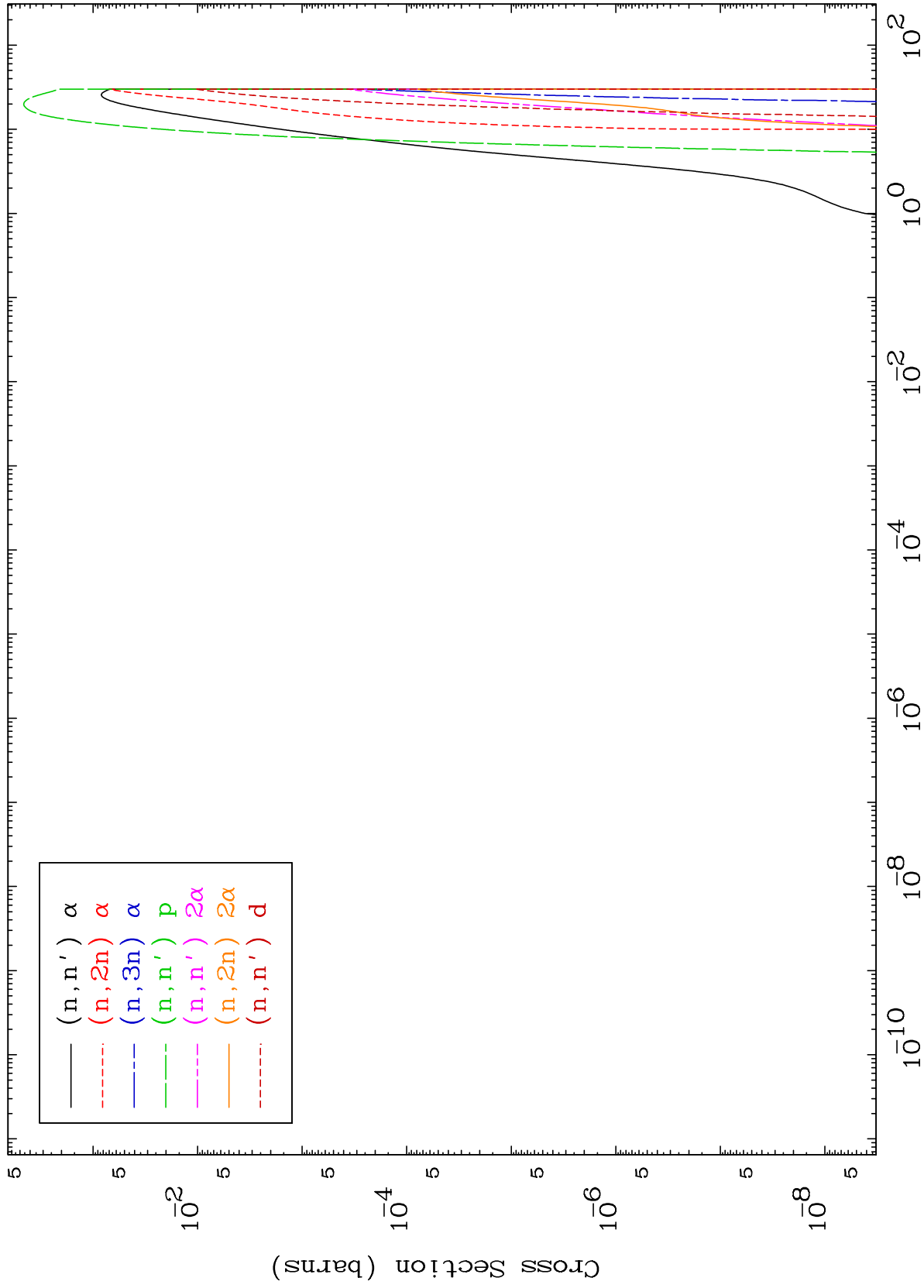
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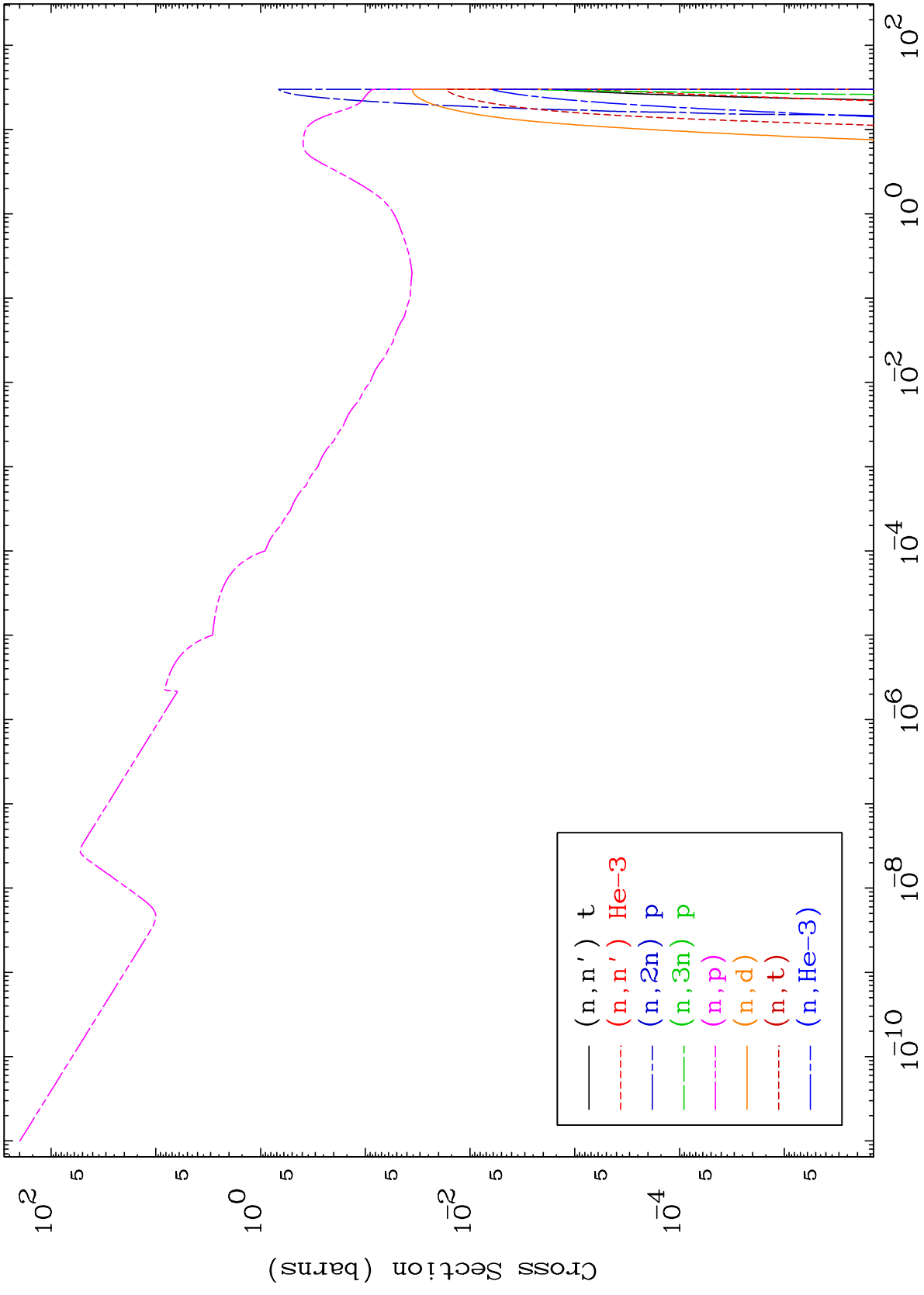
82-Pb-189

MAT 8180

Charged Particle  
293 Kelvin Cross Sections

82-Pb-189

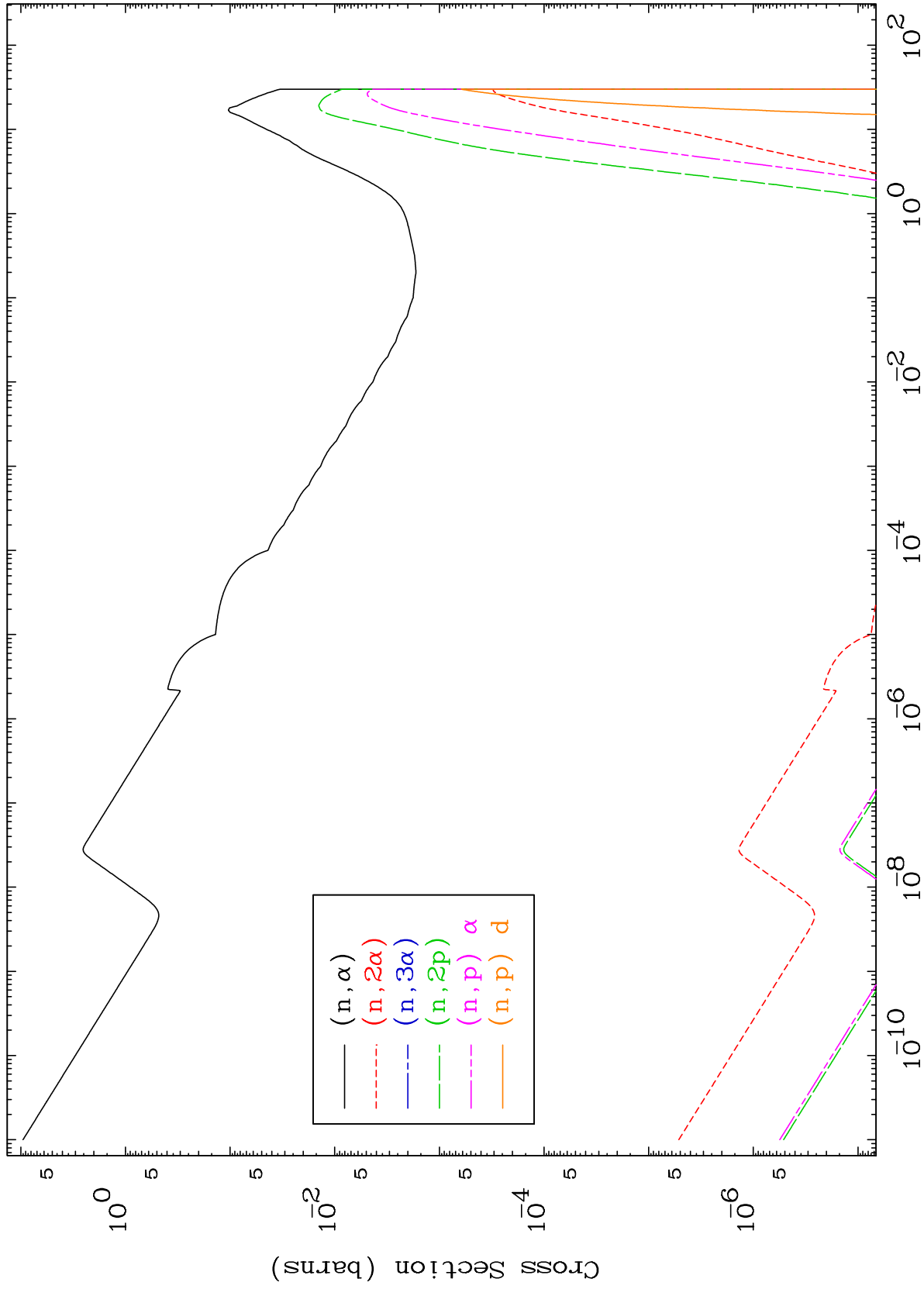




MAT 8180

Charged Particle  
293 Kelvin Cross Sections

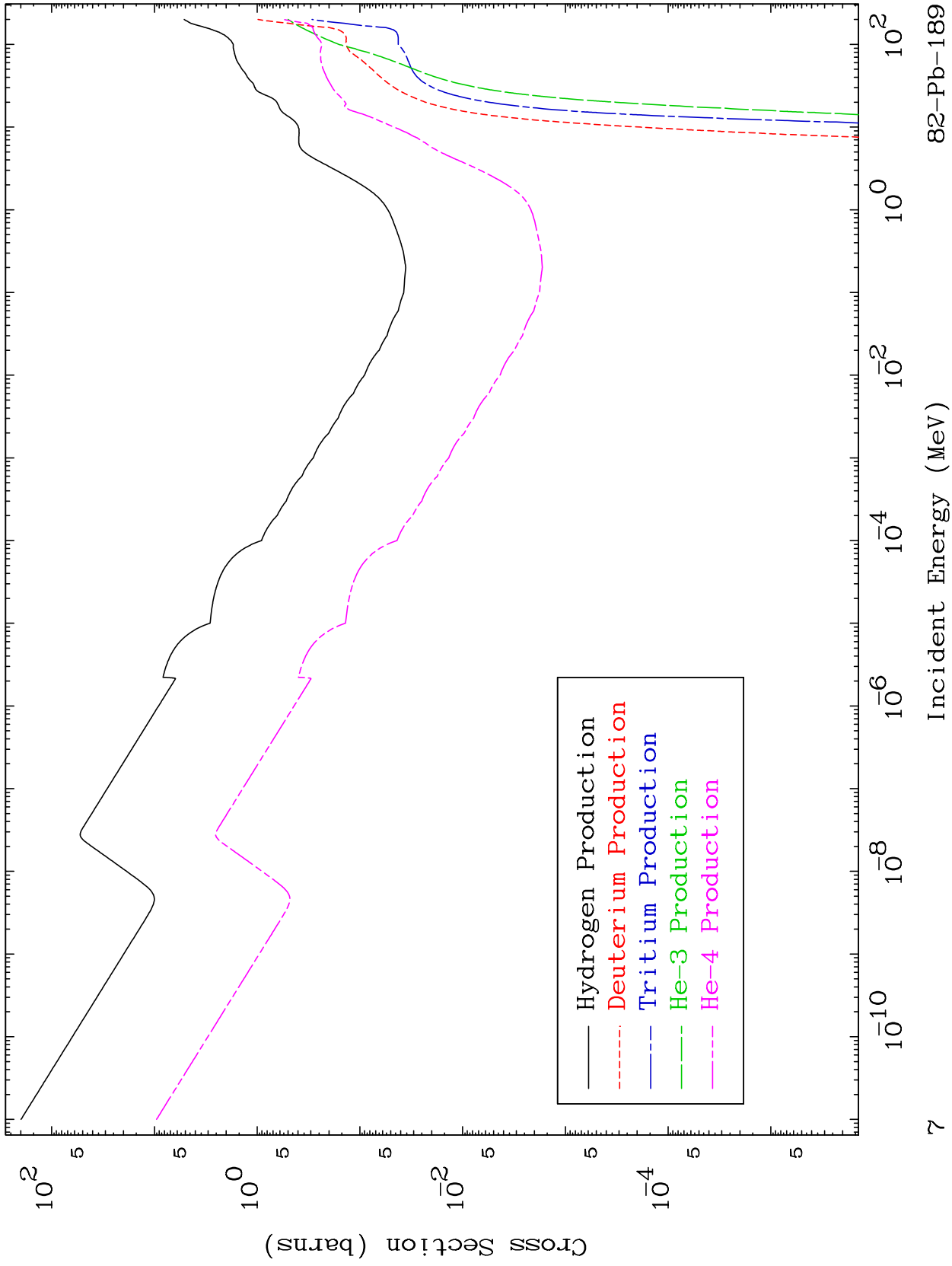
82-Pb-189



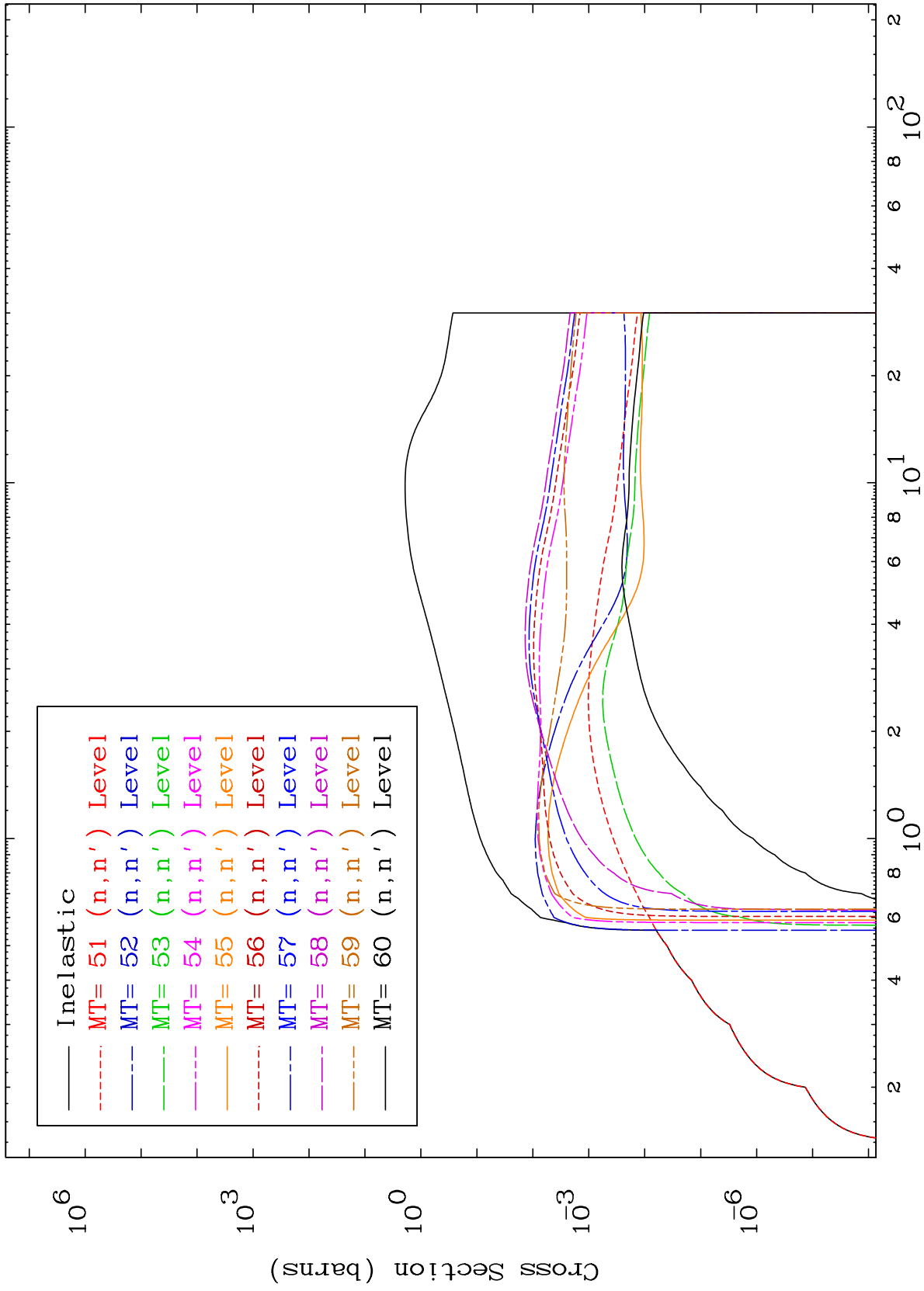
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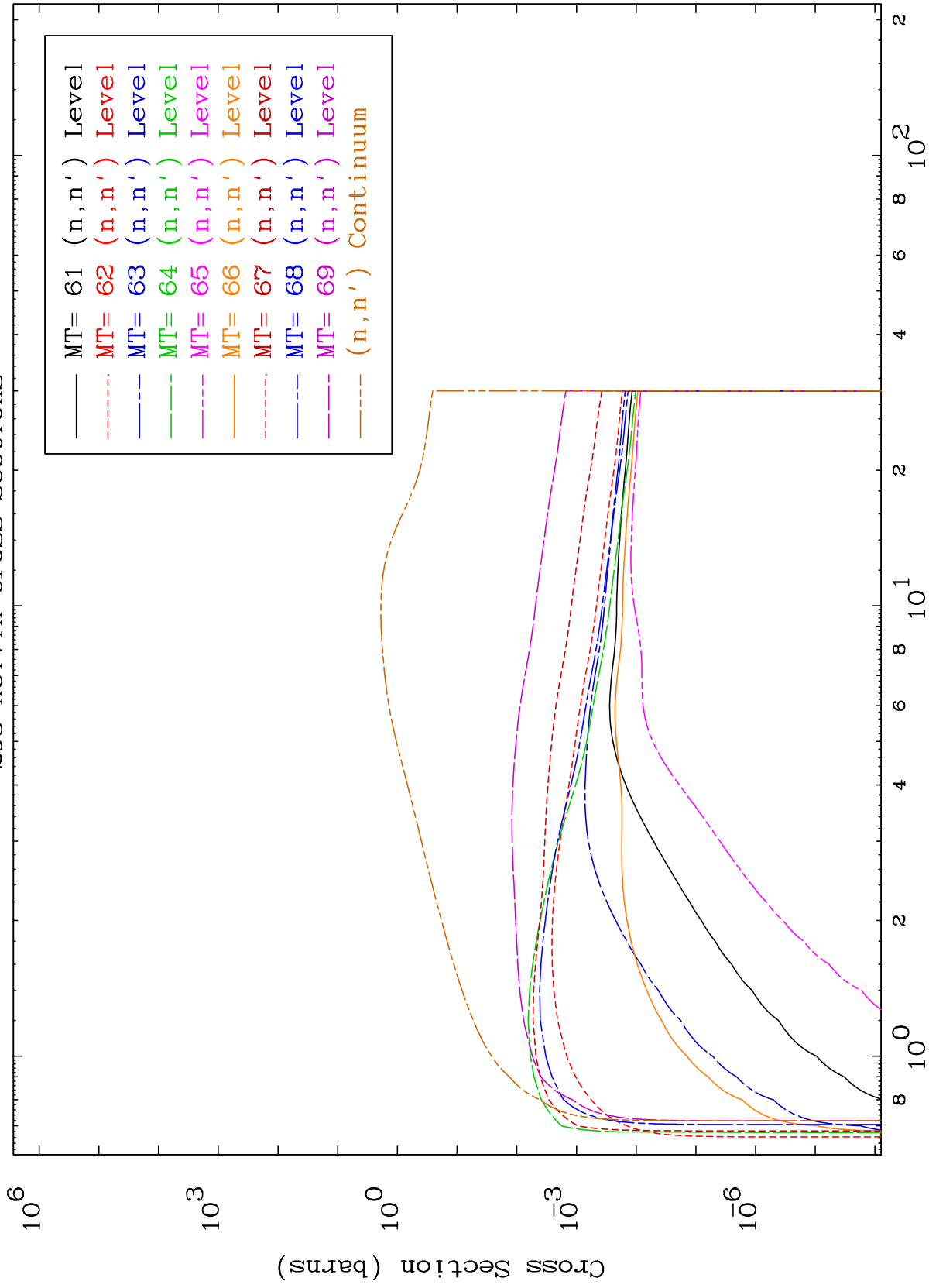
Incident Energy (MeV)

82-Pb-189





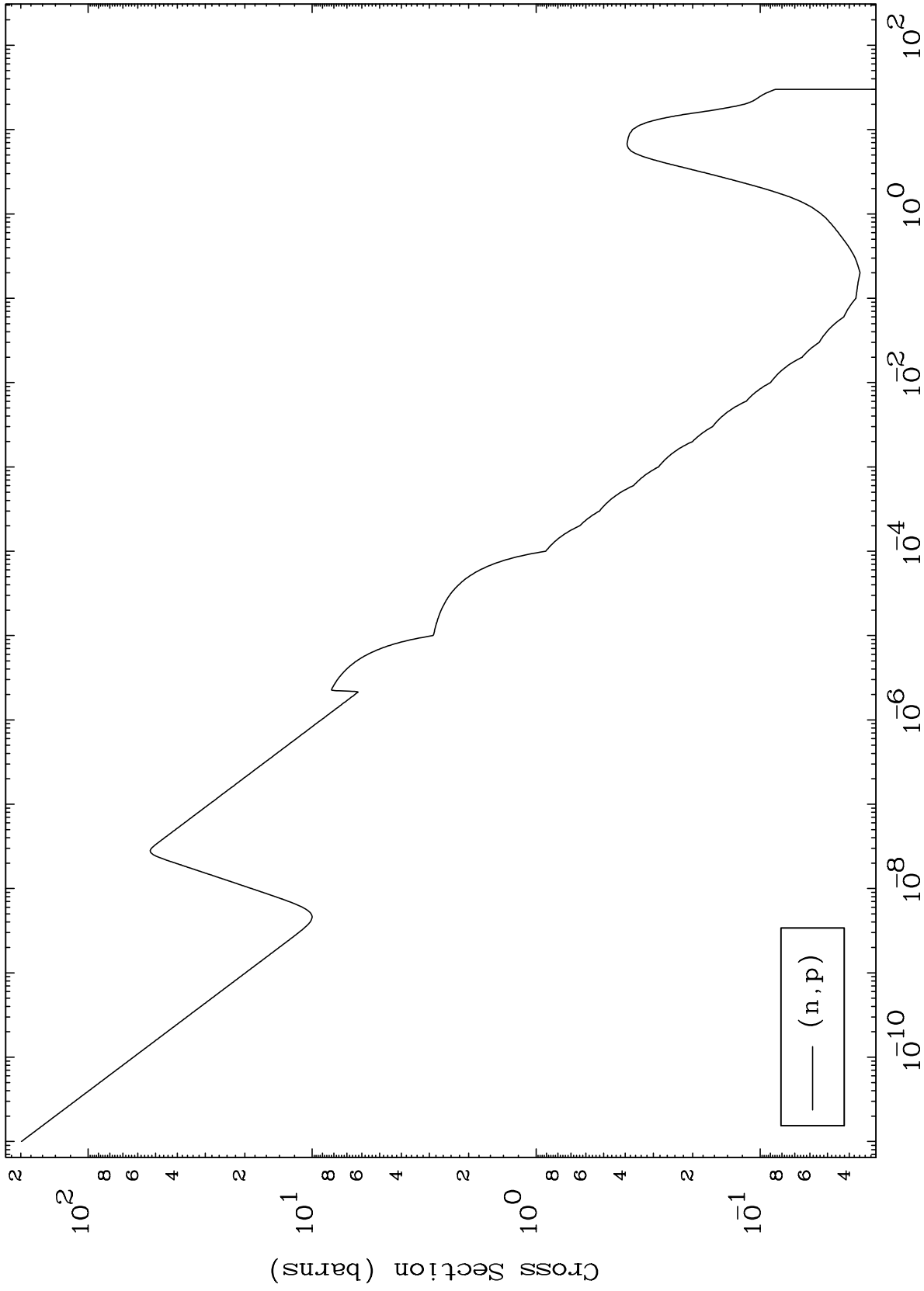




MAT 8180

(n,p) Levels  
293 Kelvin Cross Sections

82-Pb-189



10

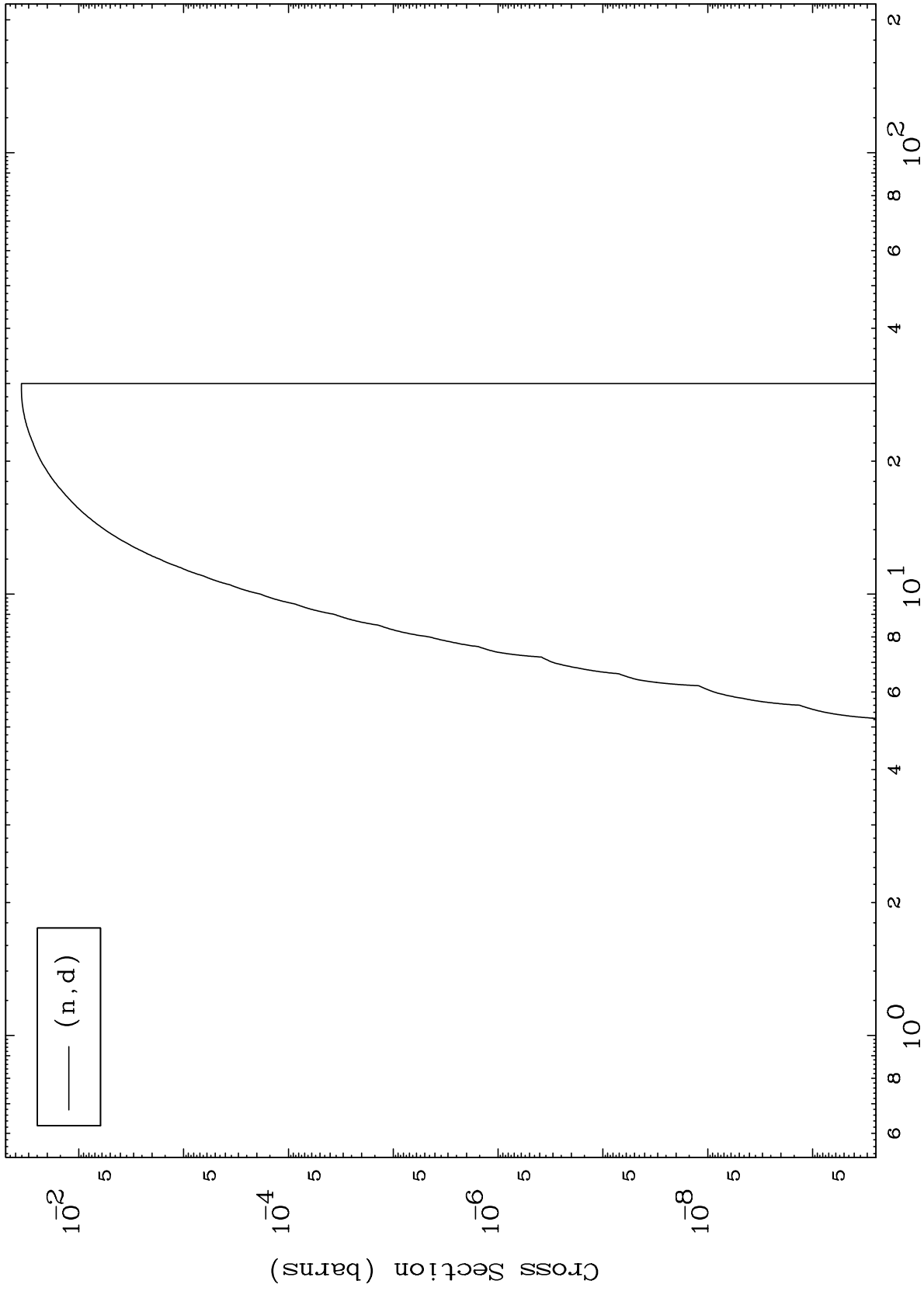
Incident Energy (MeV)

82-Pb-189

MAT 8180

(n,d) Levels  
293 Kelvin Cross Sections

82-Pb-189



11

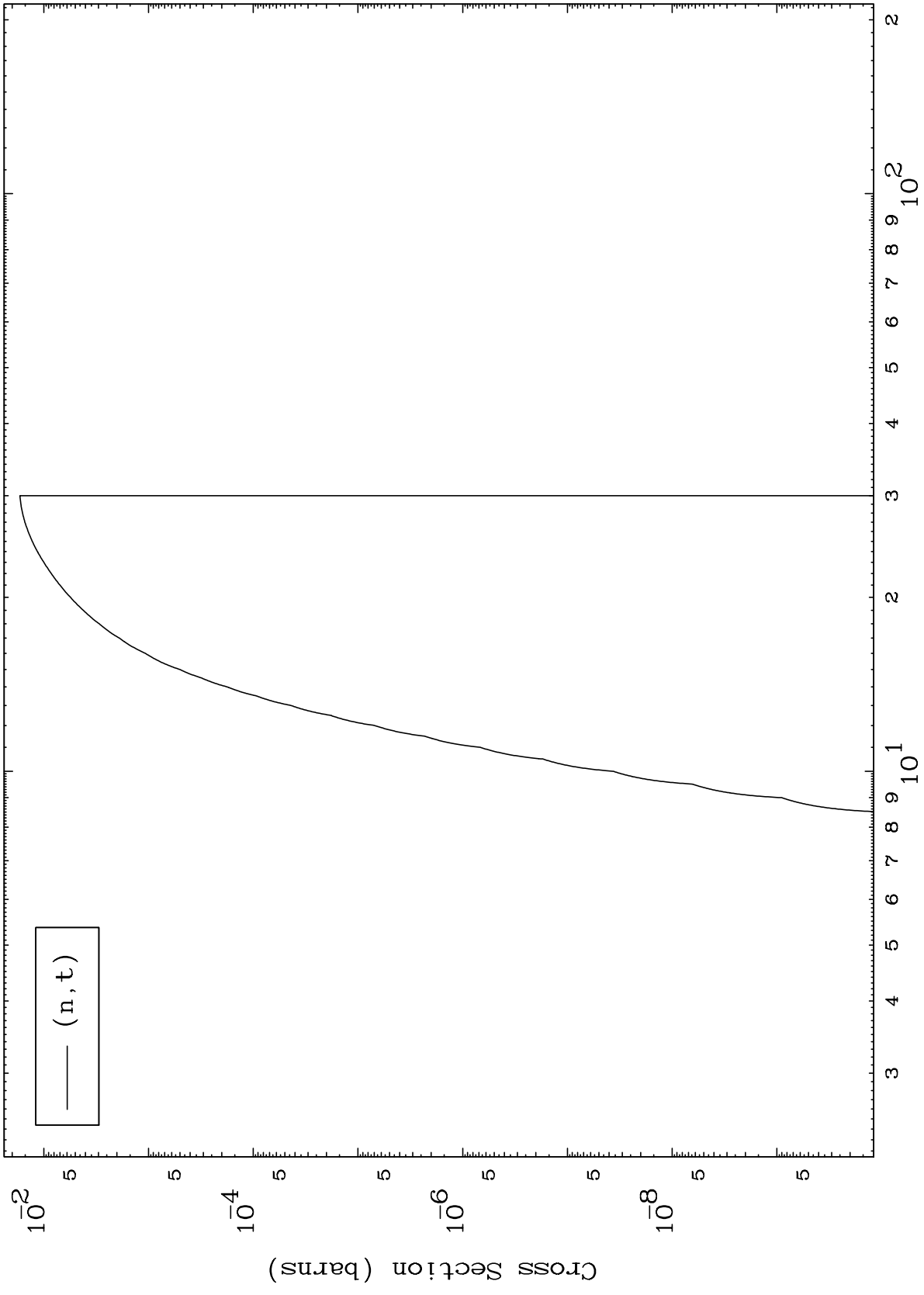
Incident Energy (MeV)

82-Pb-189

MAT 8180

(n,t) Levels  
293 Kelvin Cross Sections

82-Pb-189



12

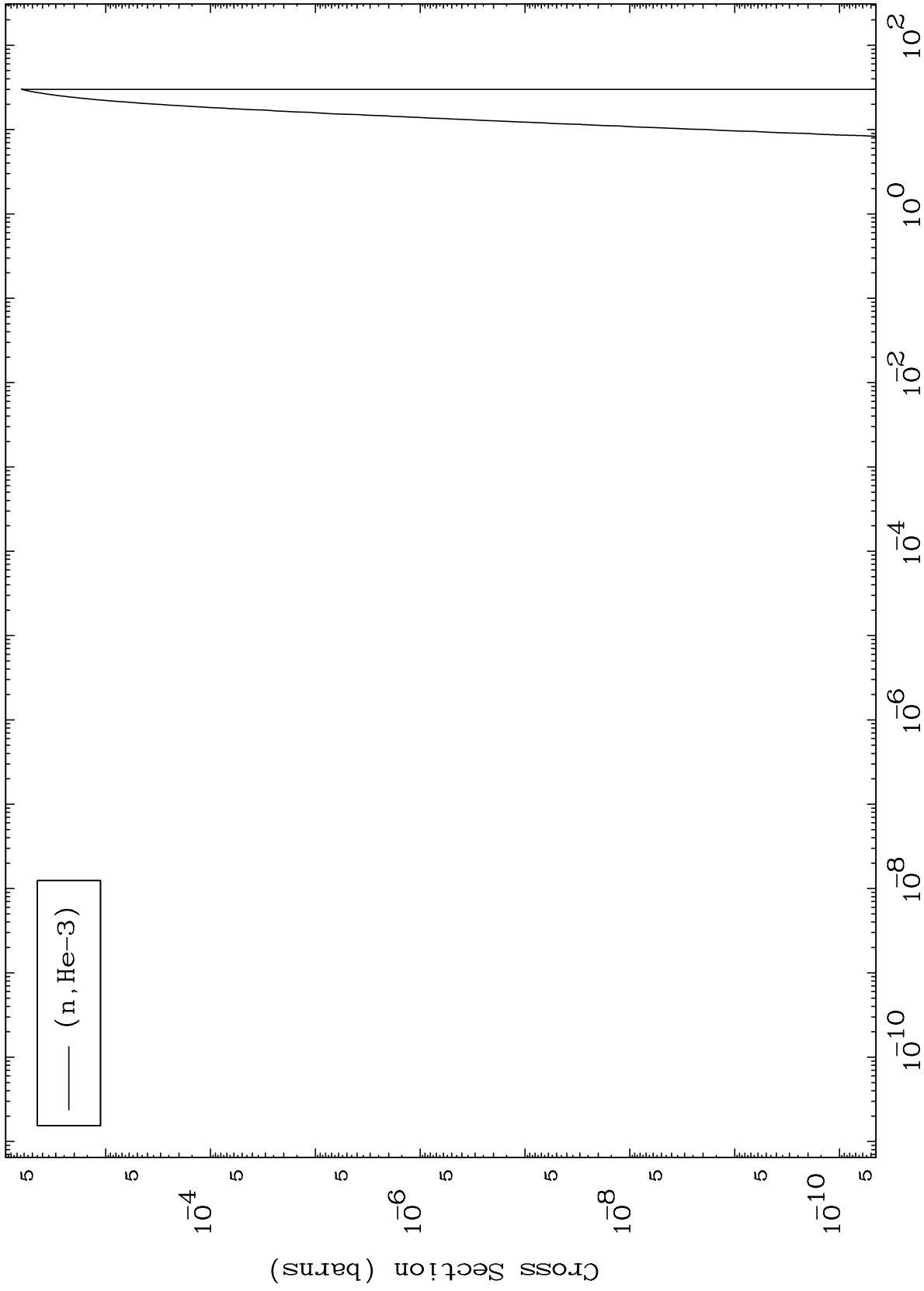
Incident Energy (MeV)

82-Pb-189

MAT 8180

(n,He3) Levels  
293 Kelvin Cross Sections

82-Pb-189



13

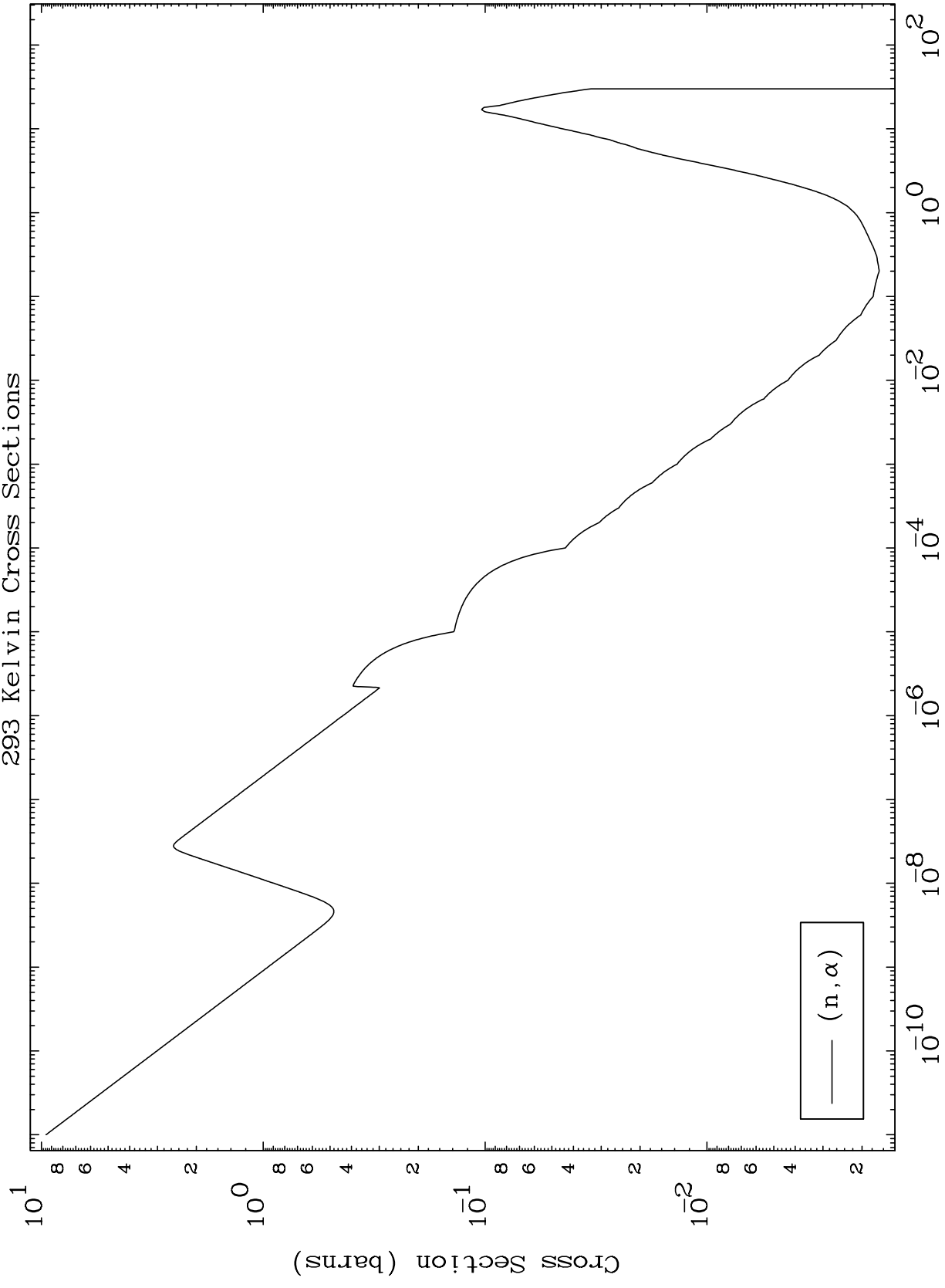
Incident Energy (MeV)

82-Pb-189

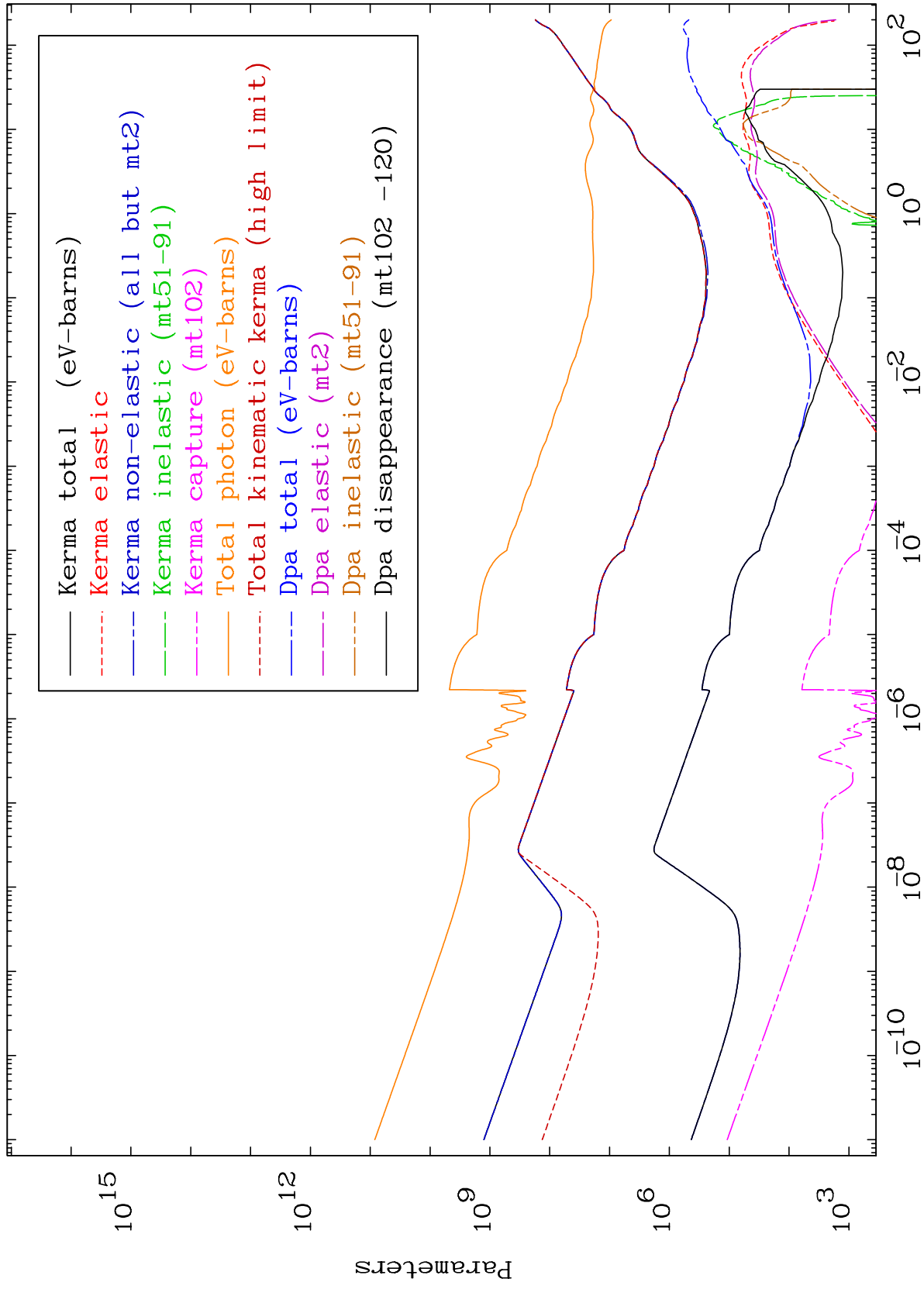
MAT 8180

(n,α) Levels  
293 Kelvin Cross Sections

82-Pb-189



82-Pb-189

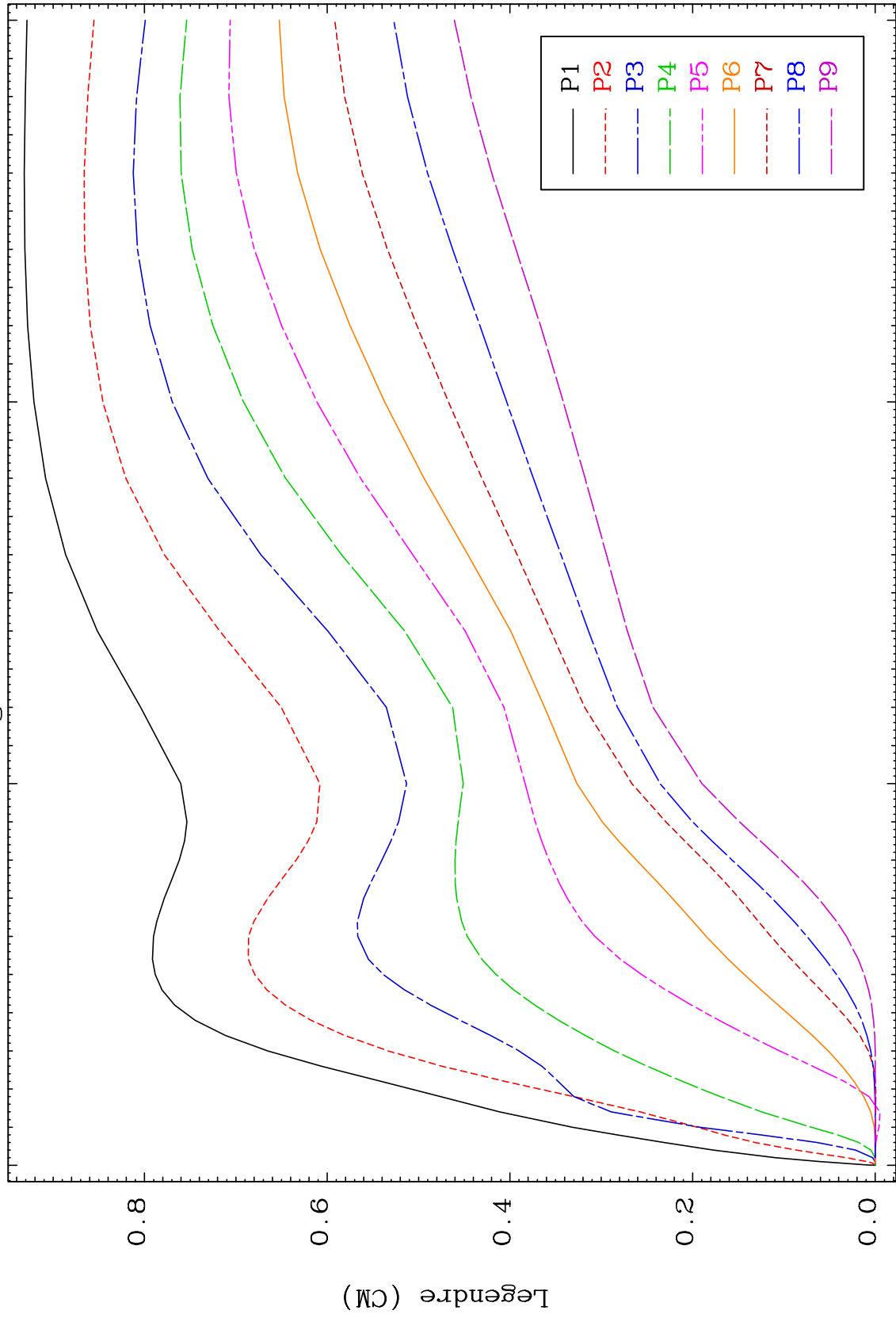




MAT 8180

Elastic Legendre Coefficients

82-Pb-189



16

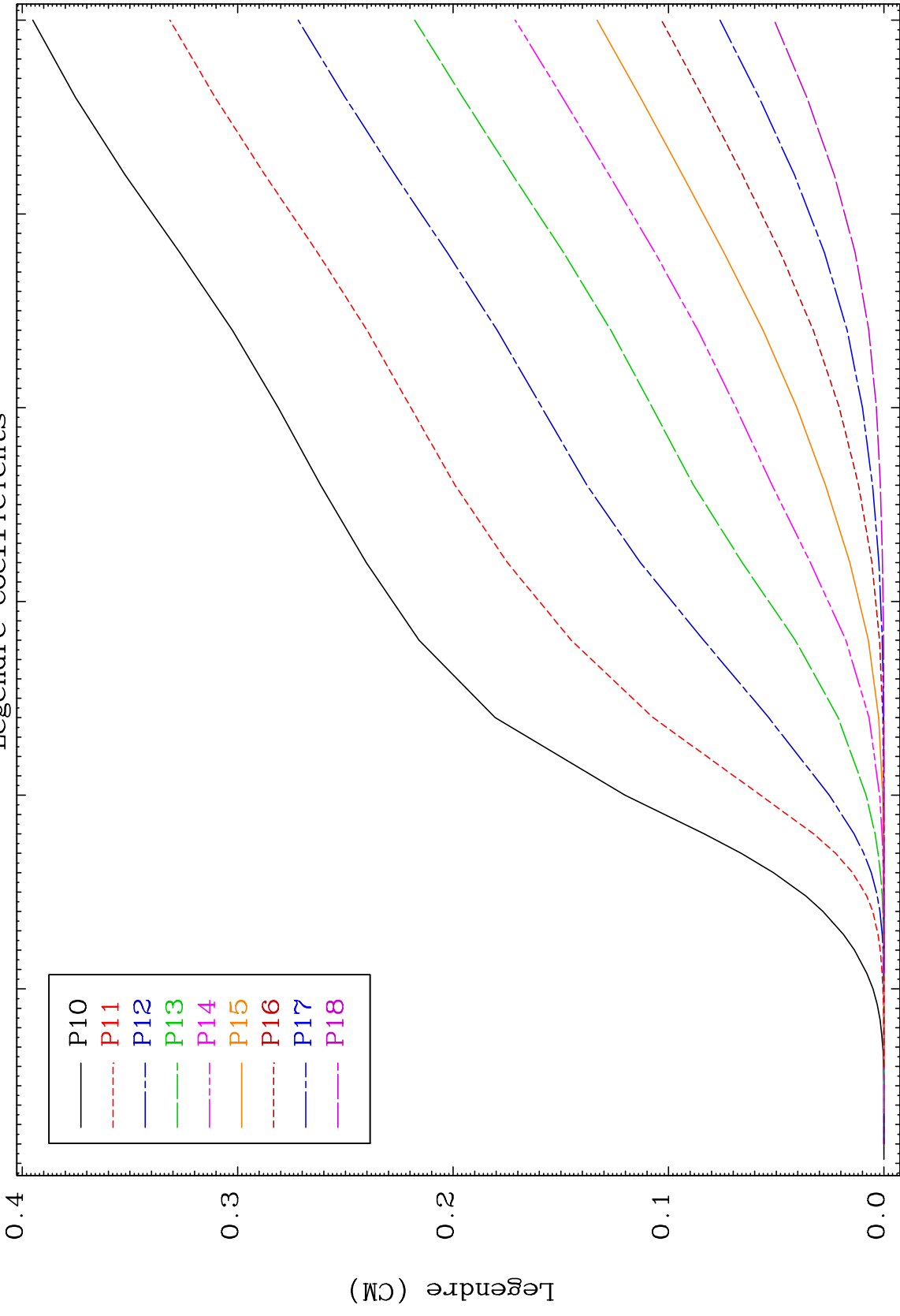
Incident Energy (MeV)

82-Pb-189

82-Pb-189

Elastic Legendre Coefficients

MAT 8180



82-Pb-189

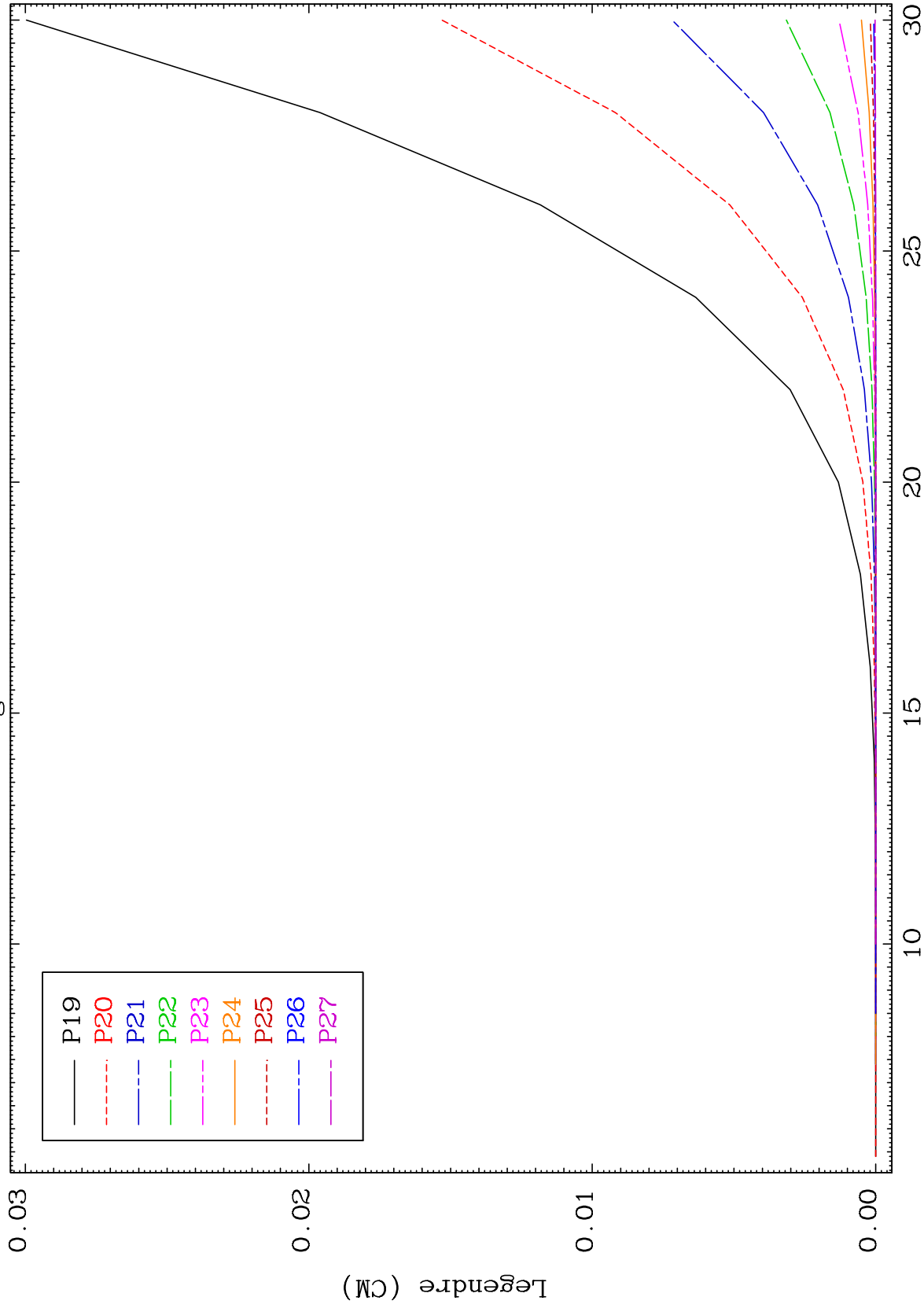
Incident Energy (MeV)

17

MAT 8180

Elastic  
Legendre Coefficients

82-Pb-189



18

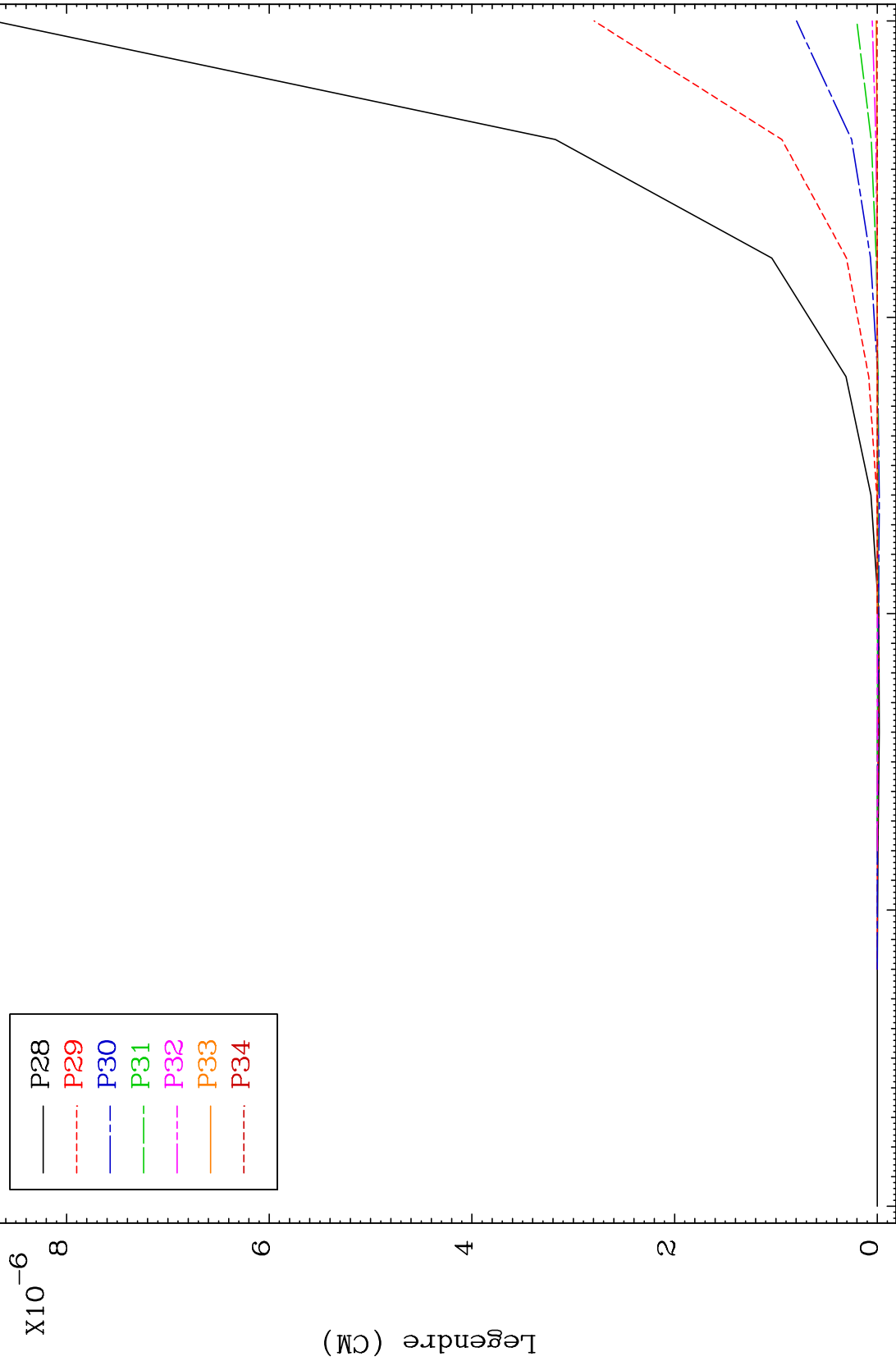
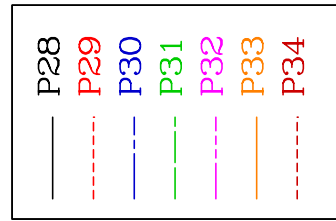
Incident Energy (MeV)

82-Pb-189

MAT 8180

Elastic Legendre Coefficients

82-Pb-189



19

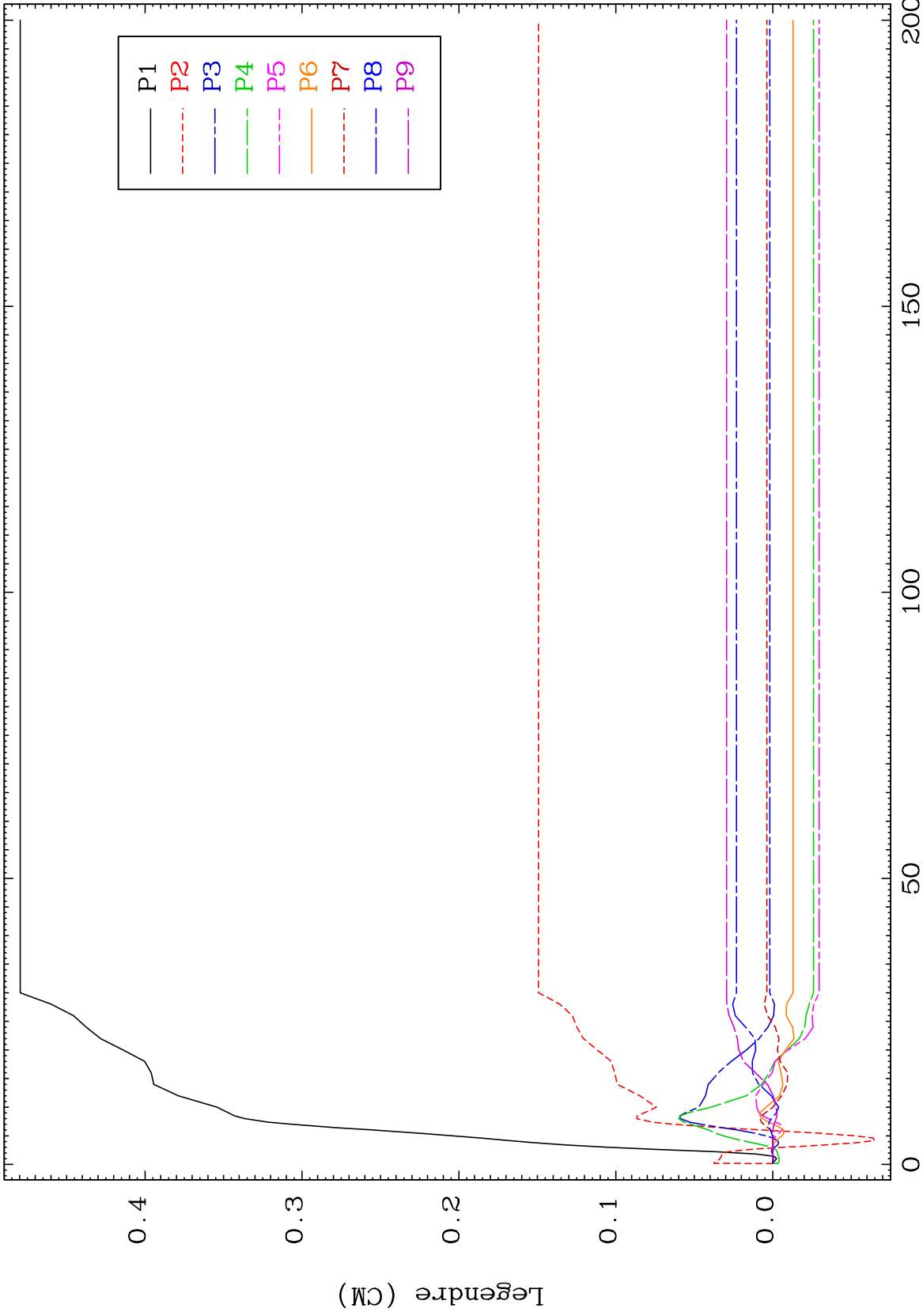
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



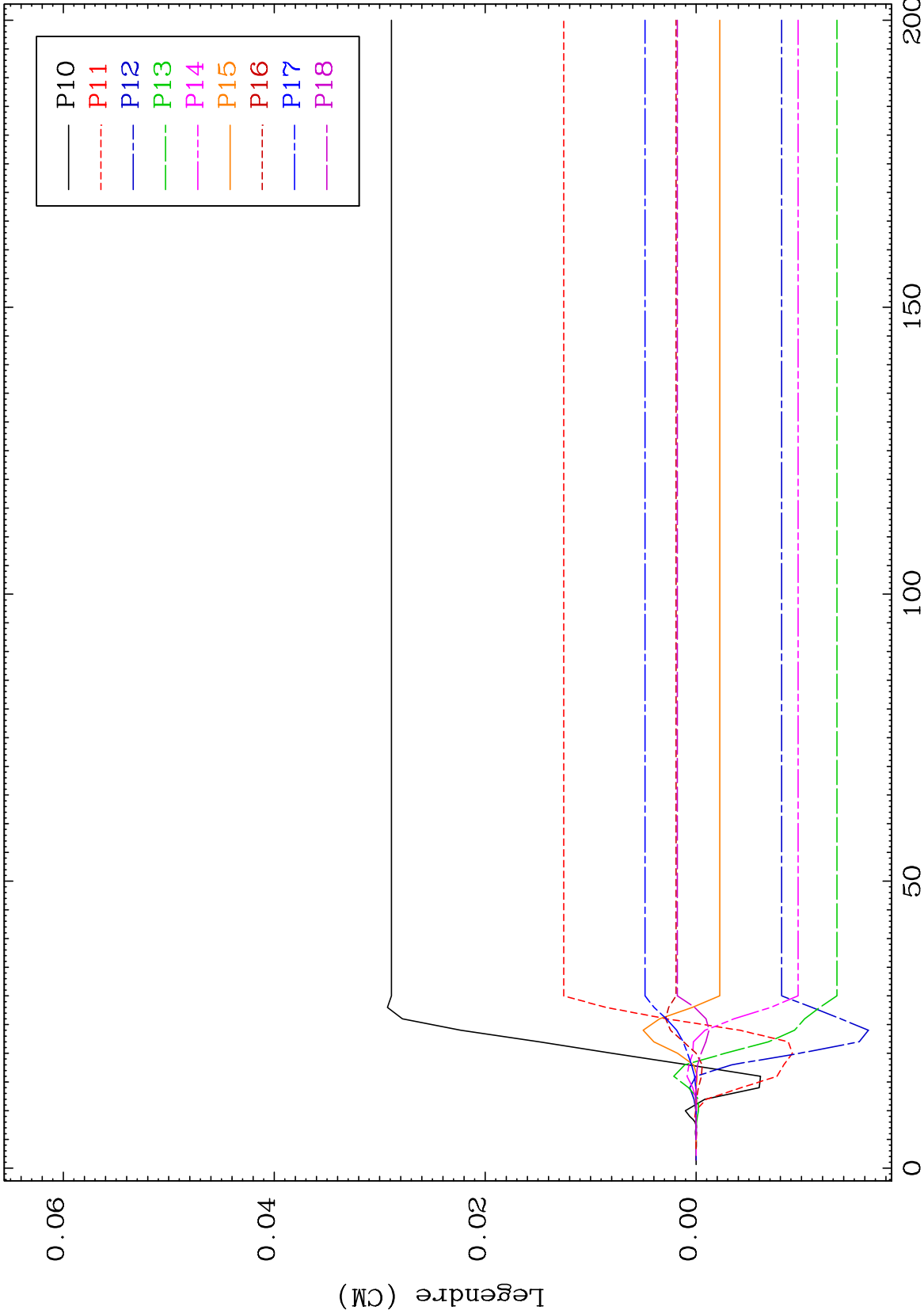
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



21

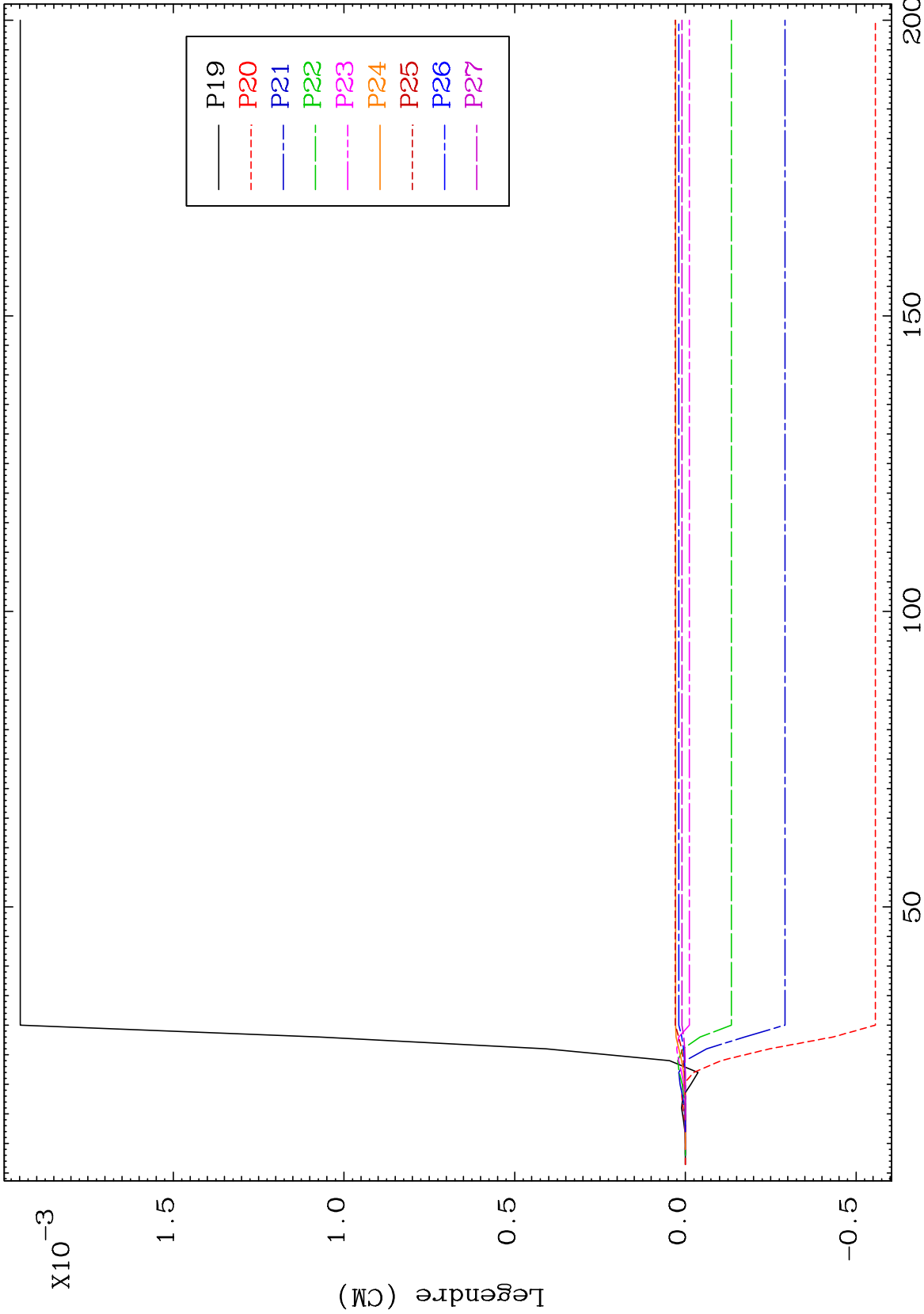
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



22

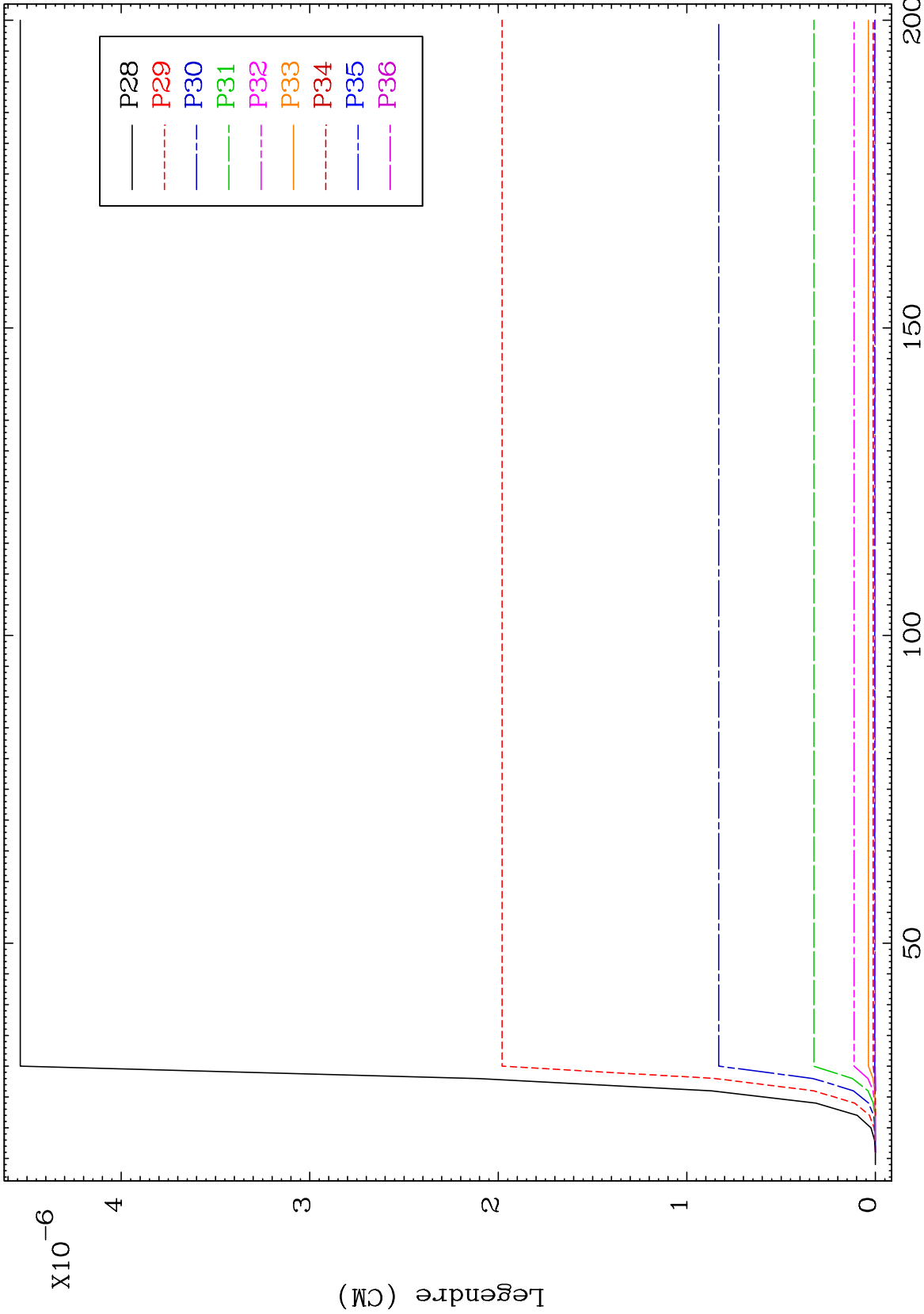
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



23

Incident Energy (MeV)

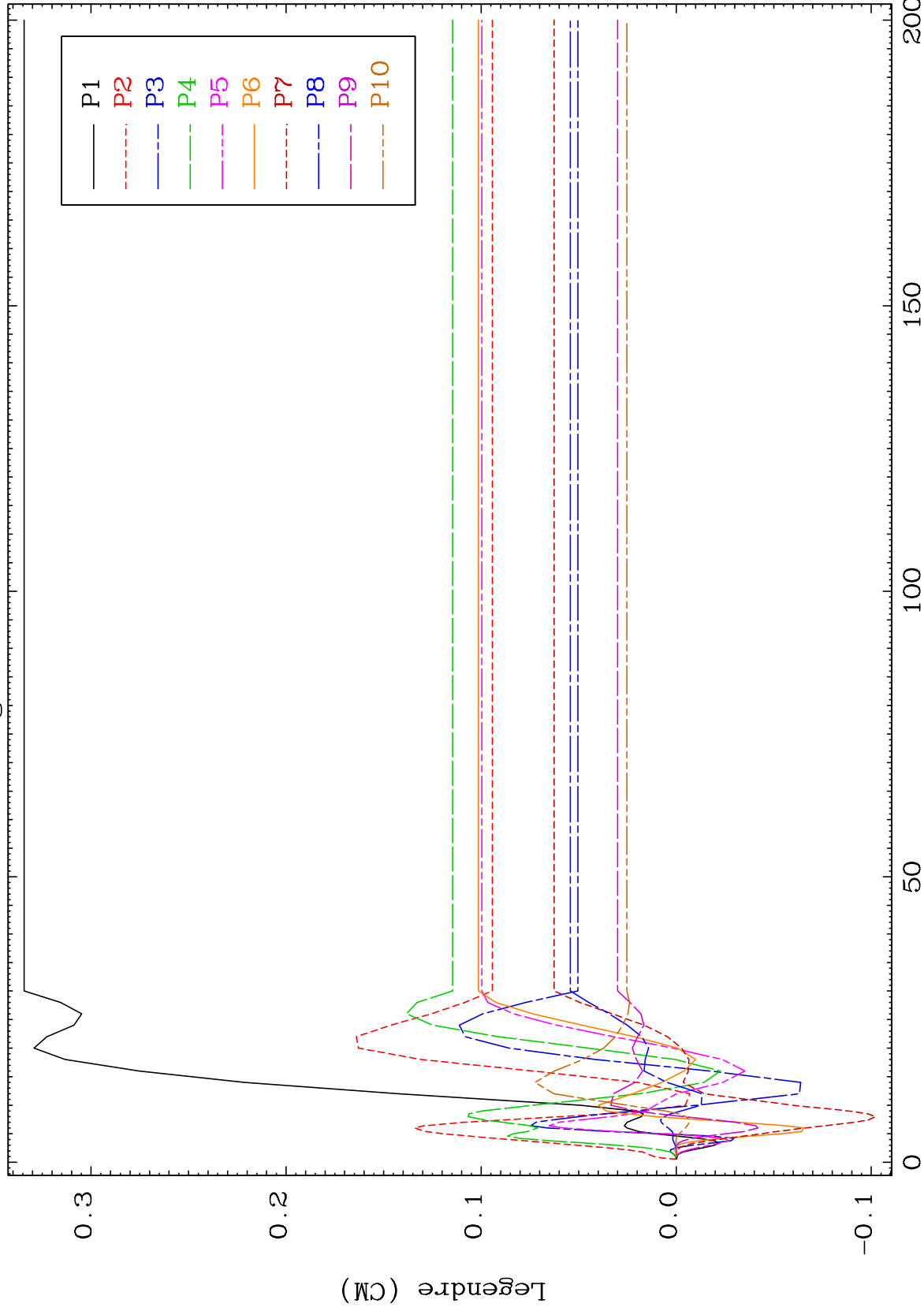
82-Pb-189



MAT 8180

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

82-Pb-189

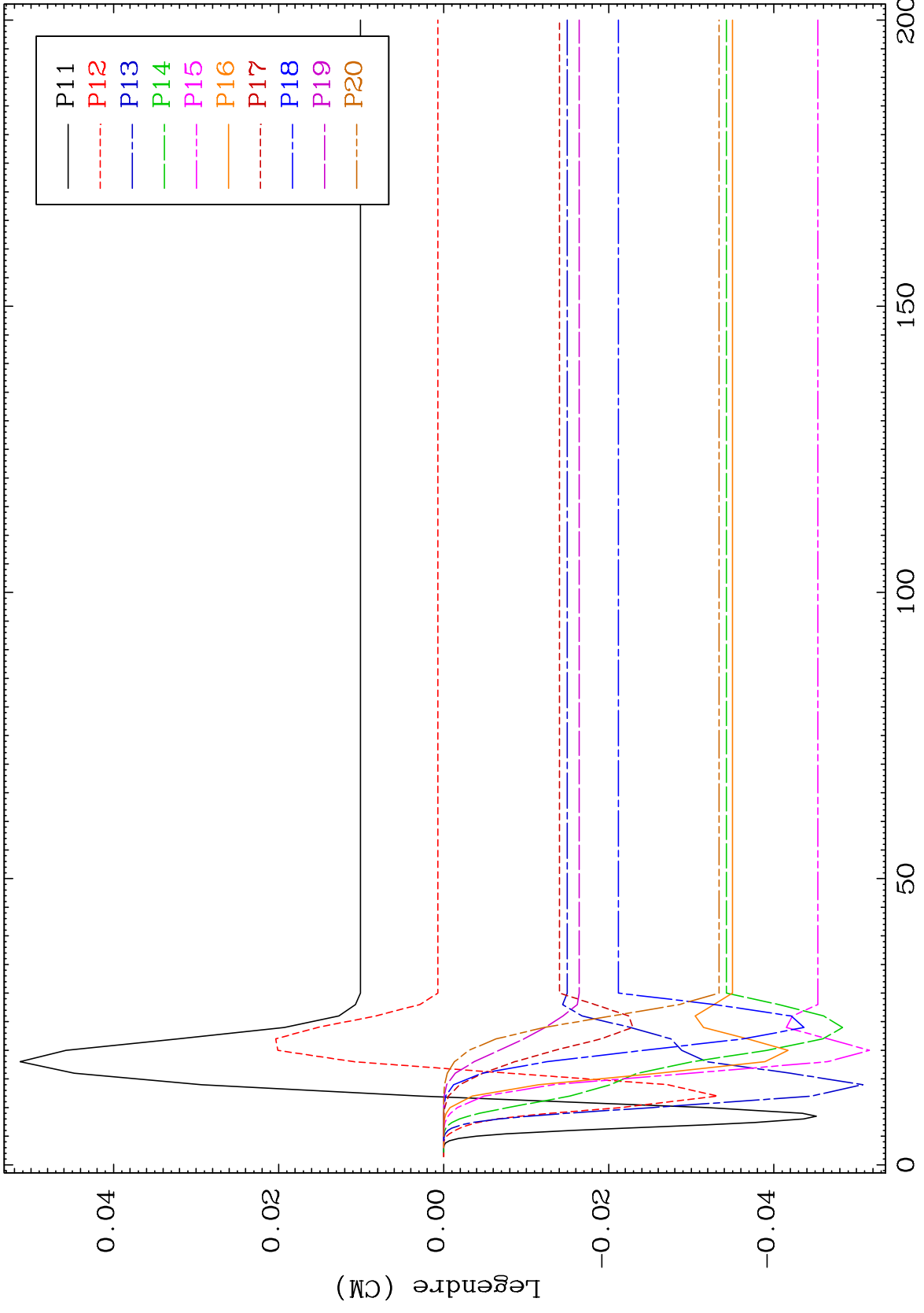


24

Incident Energy (MeV)

82-Pb-189

MAT 8180 MT= 52 (n,n') Level Legendre Coefficients 82-Pb-189

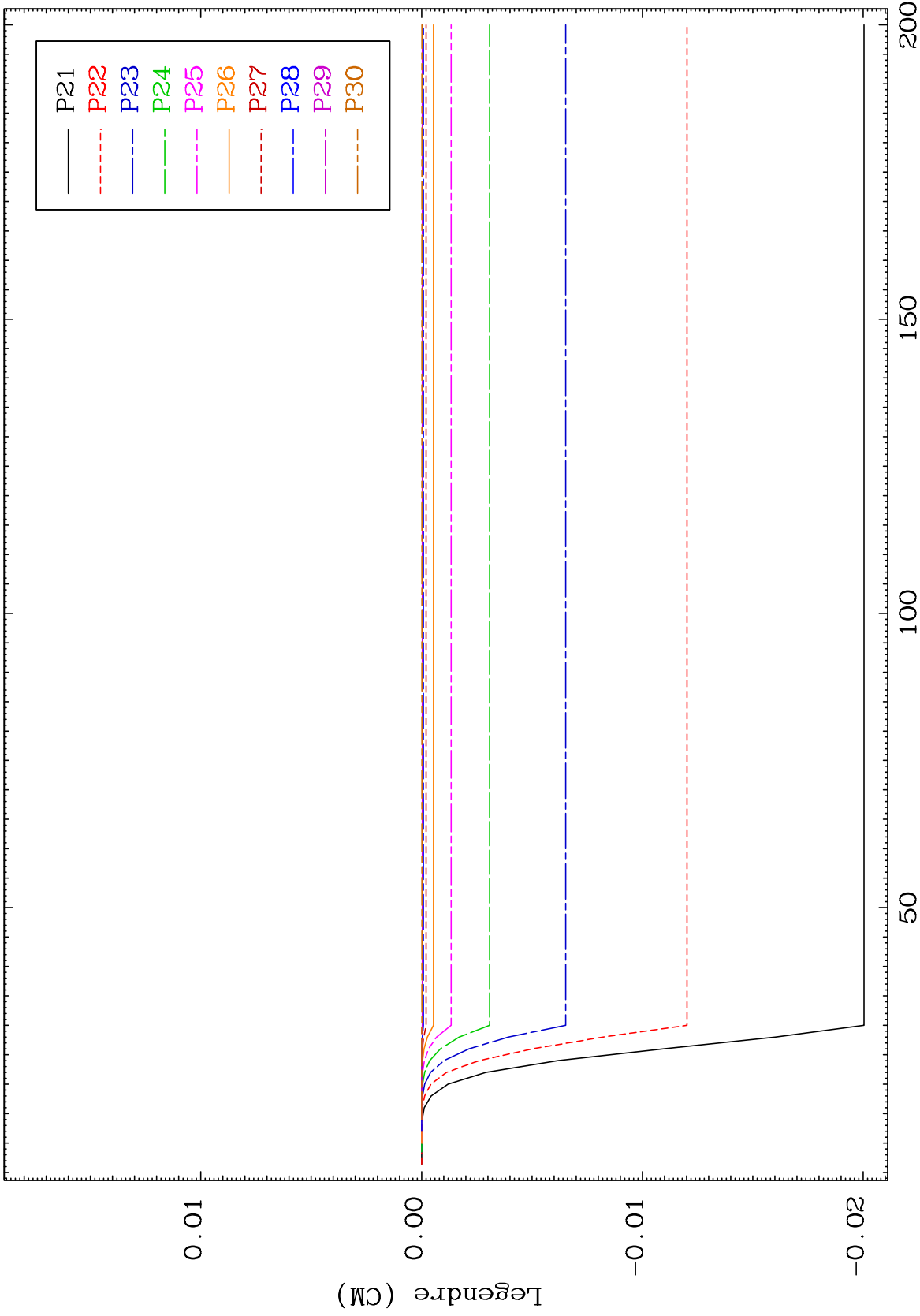


82-Pb-189

MAT 8180

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

82-Pb-189



26

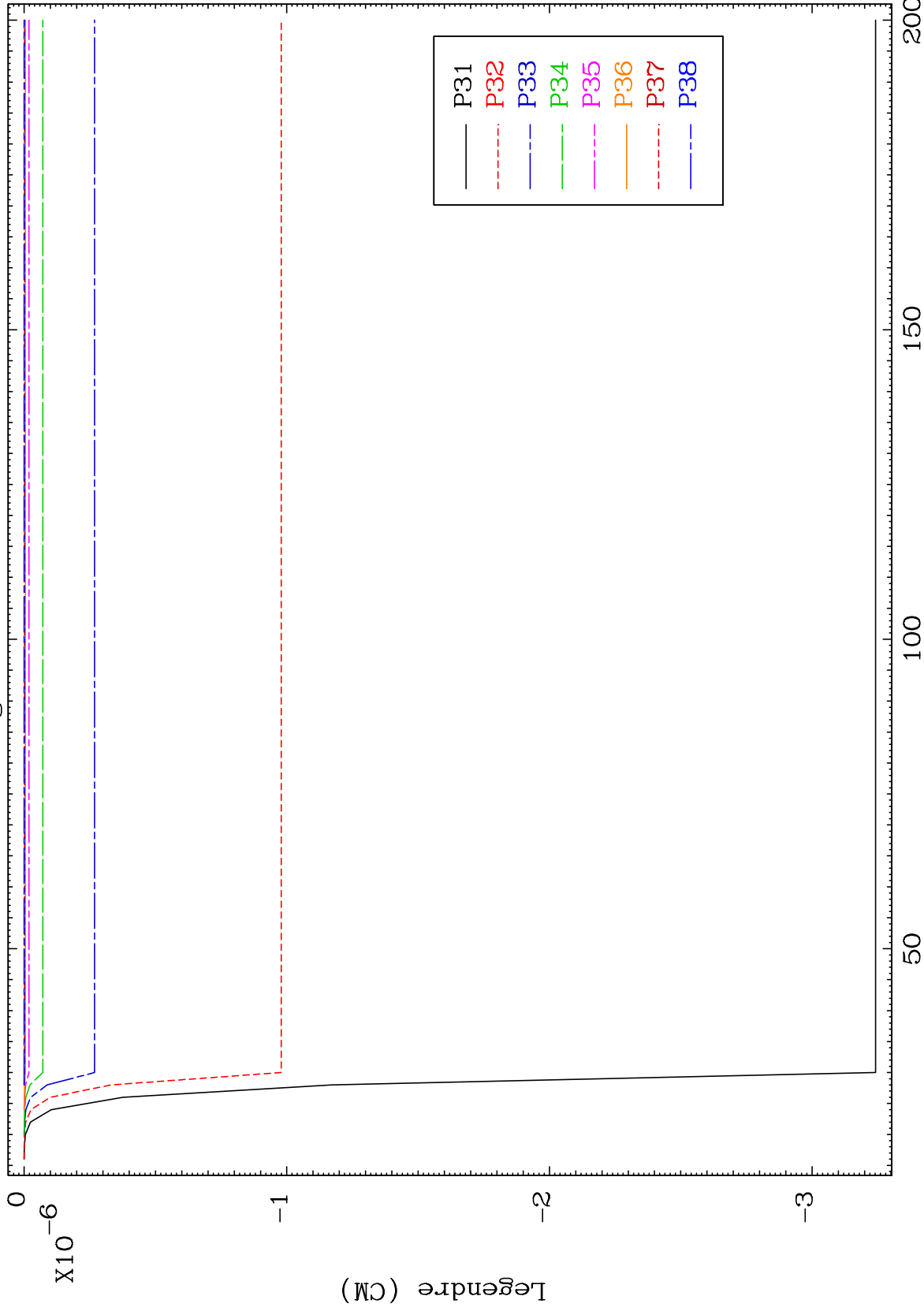
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



82-Pb-189

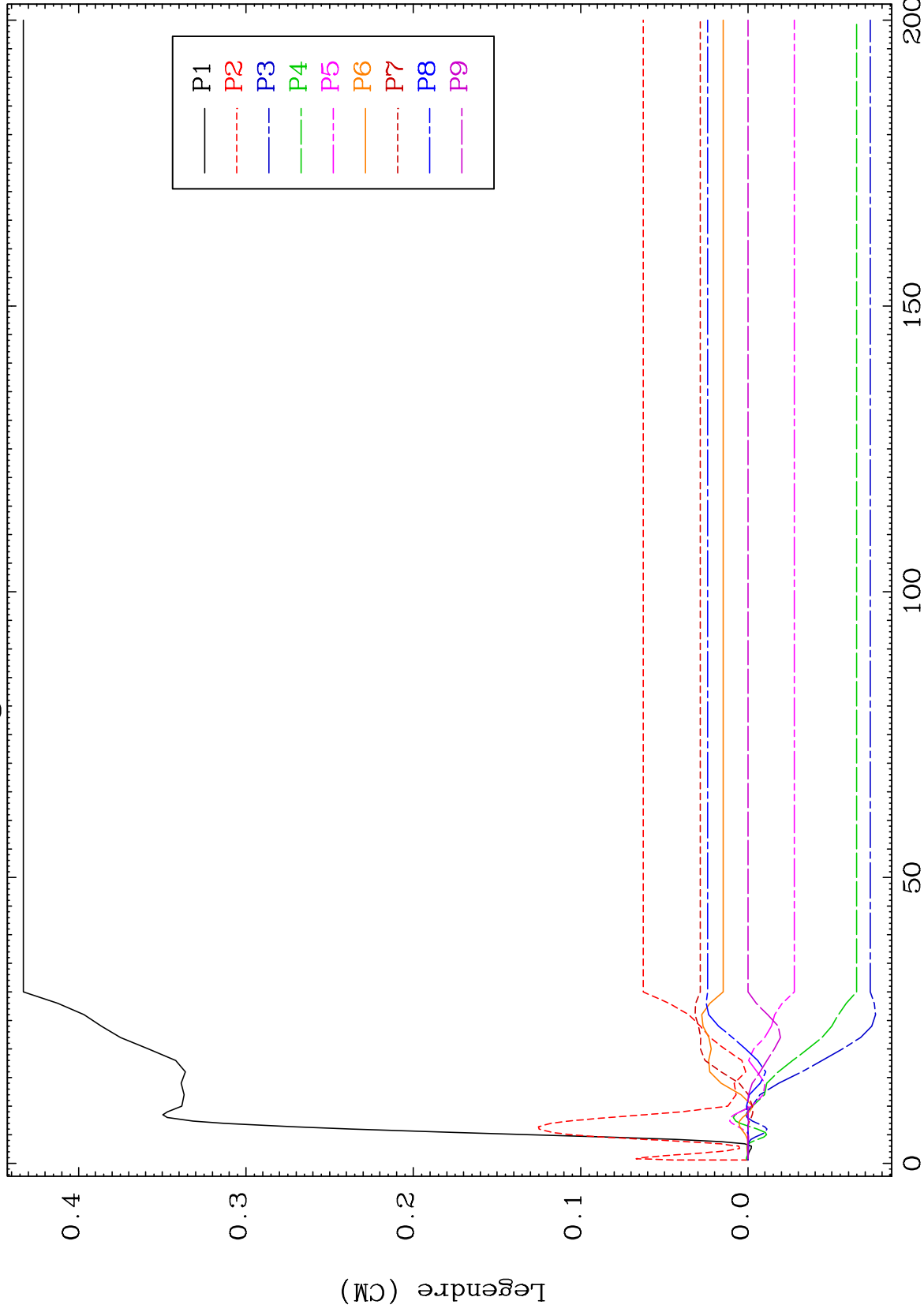
Incident Energy (MeV)

27

MAT 8180

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

82-Pb-189



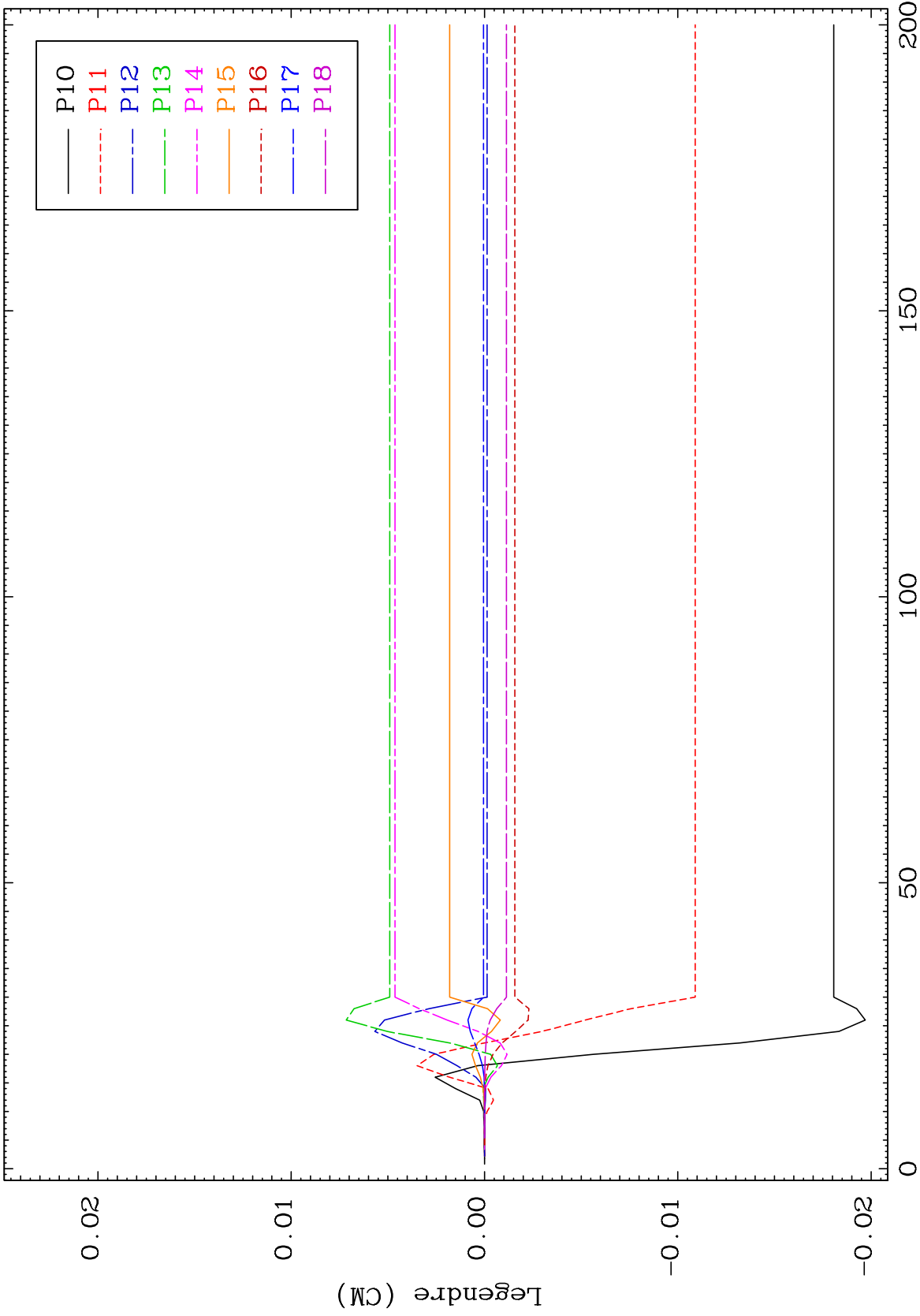
28

82-Pb-189

MAT 8180

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

82-Pb-189



29

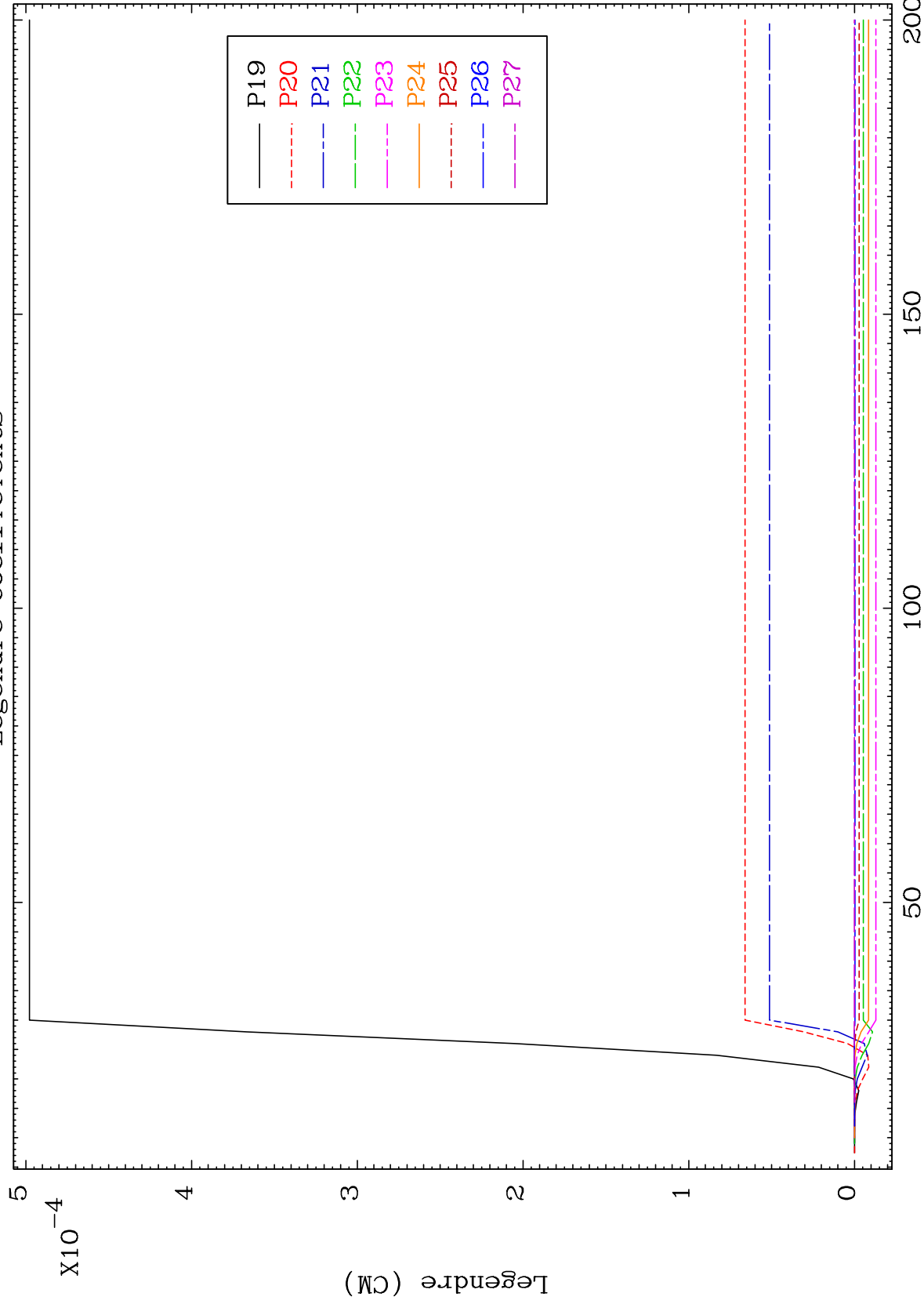
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



30

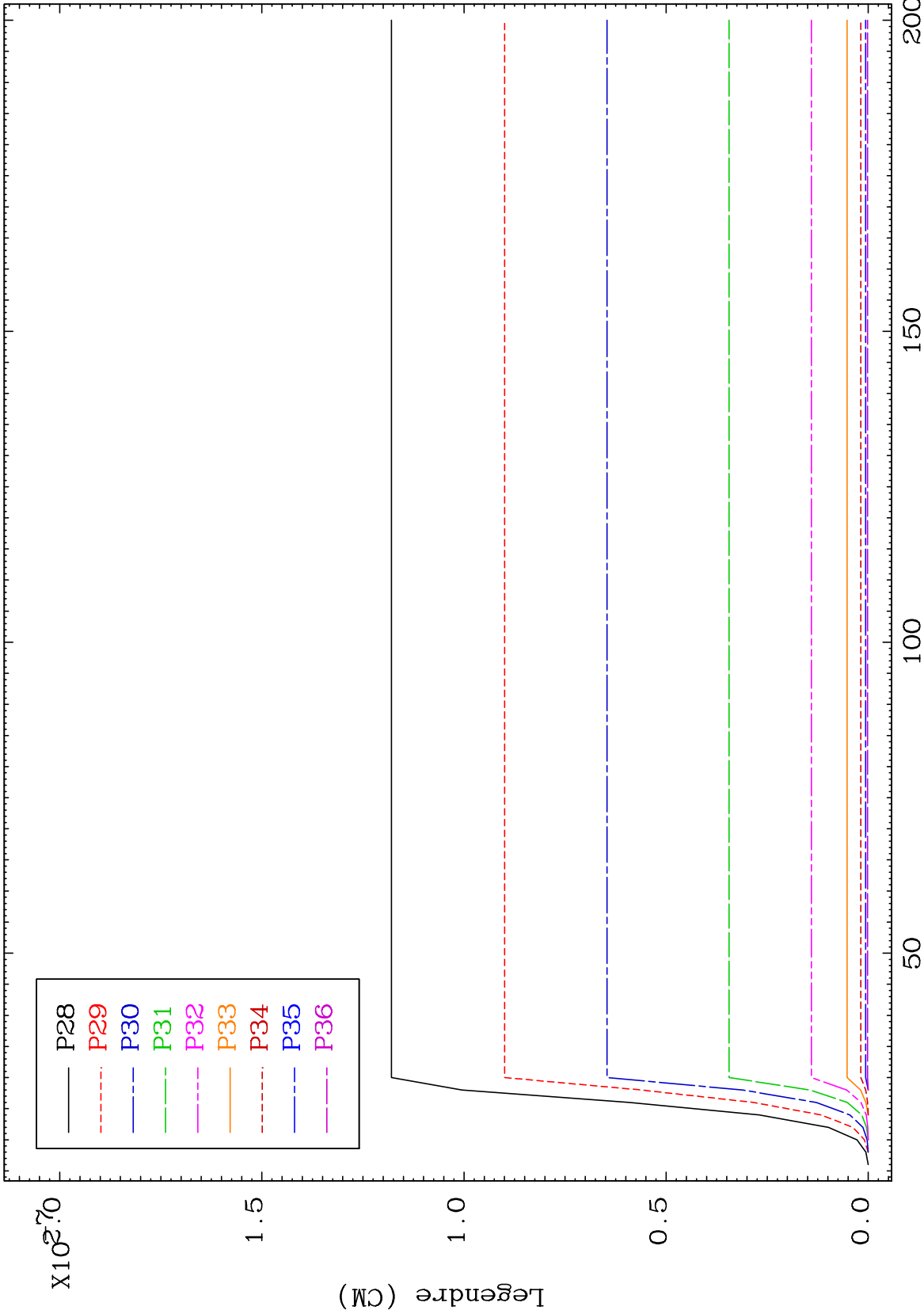
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



31

Incident Energy (MeV)

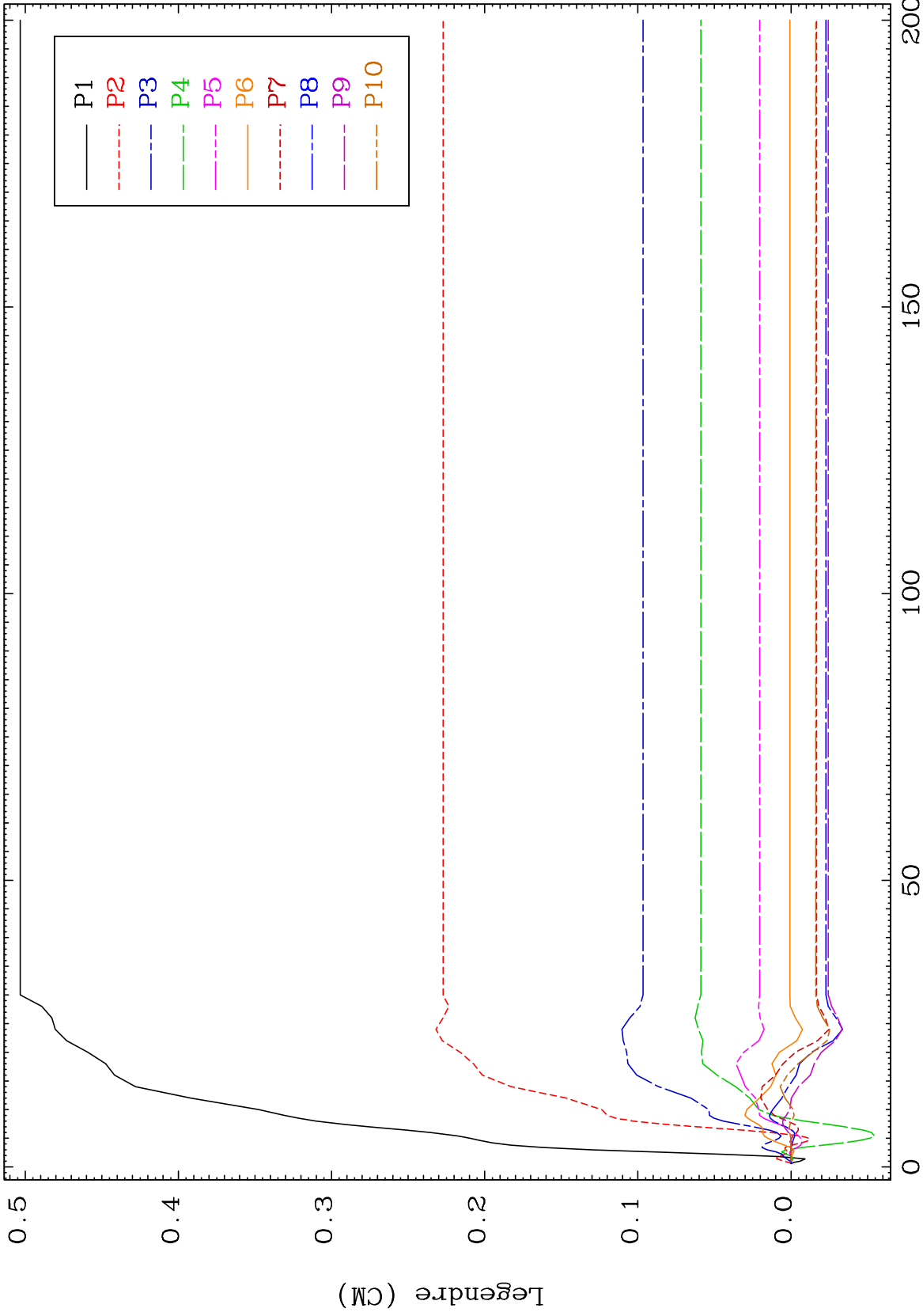
82-Pb-189



MAT 8180

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

82-Pb-189



32

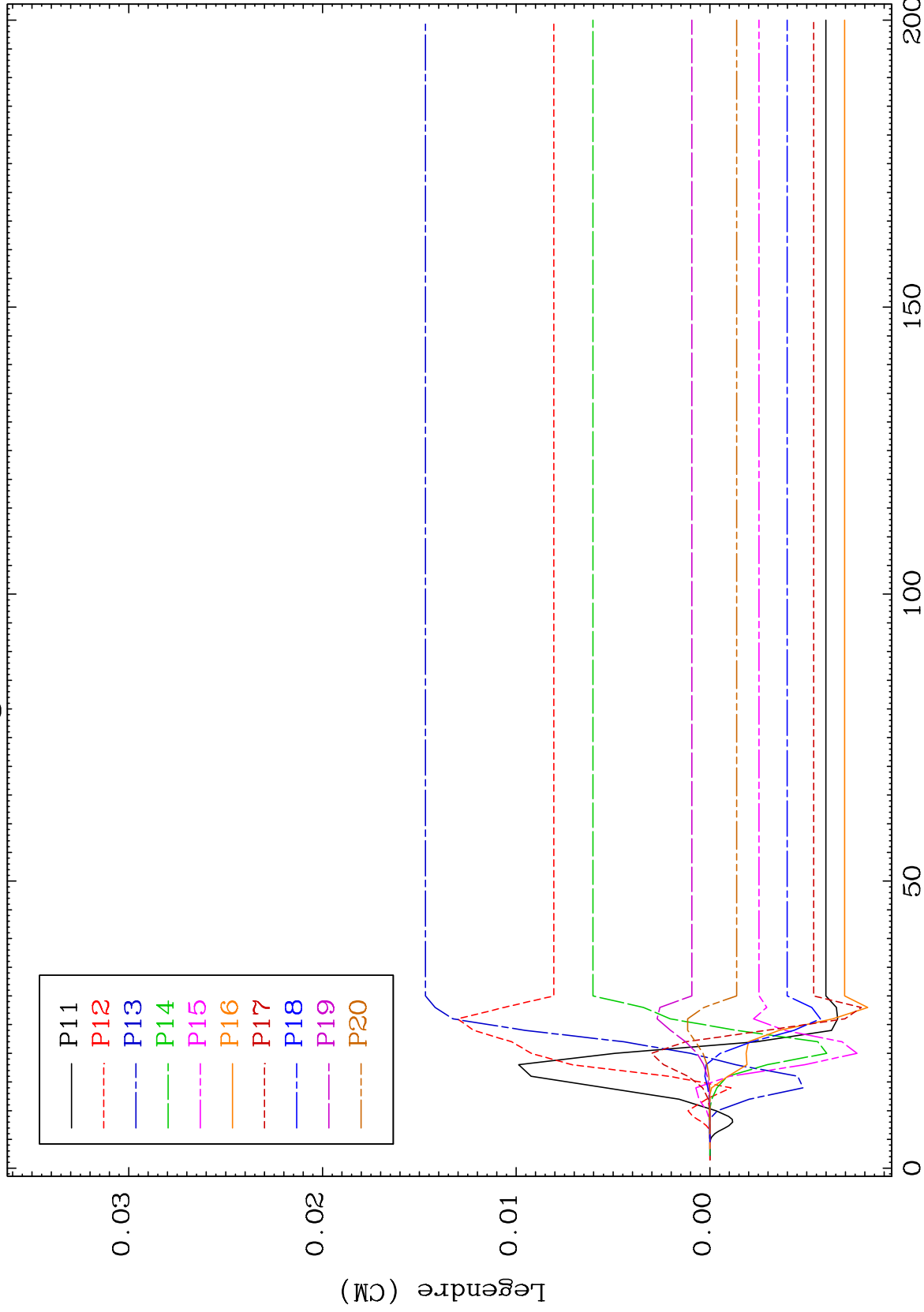
Incident Energy (MeV)

82-Pb-189

MAT 8180

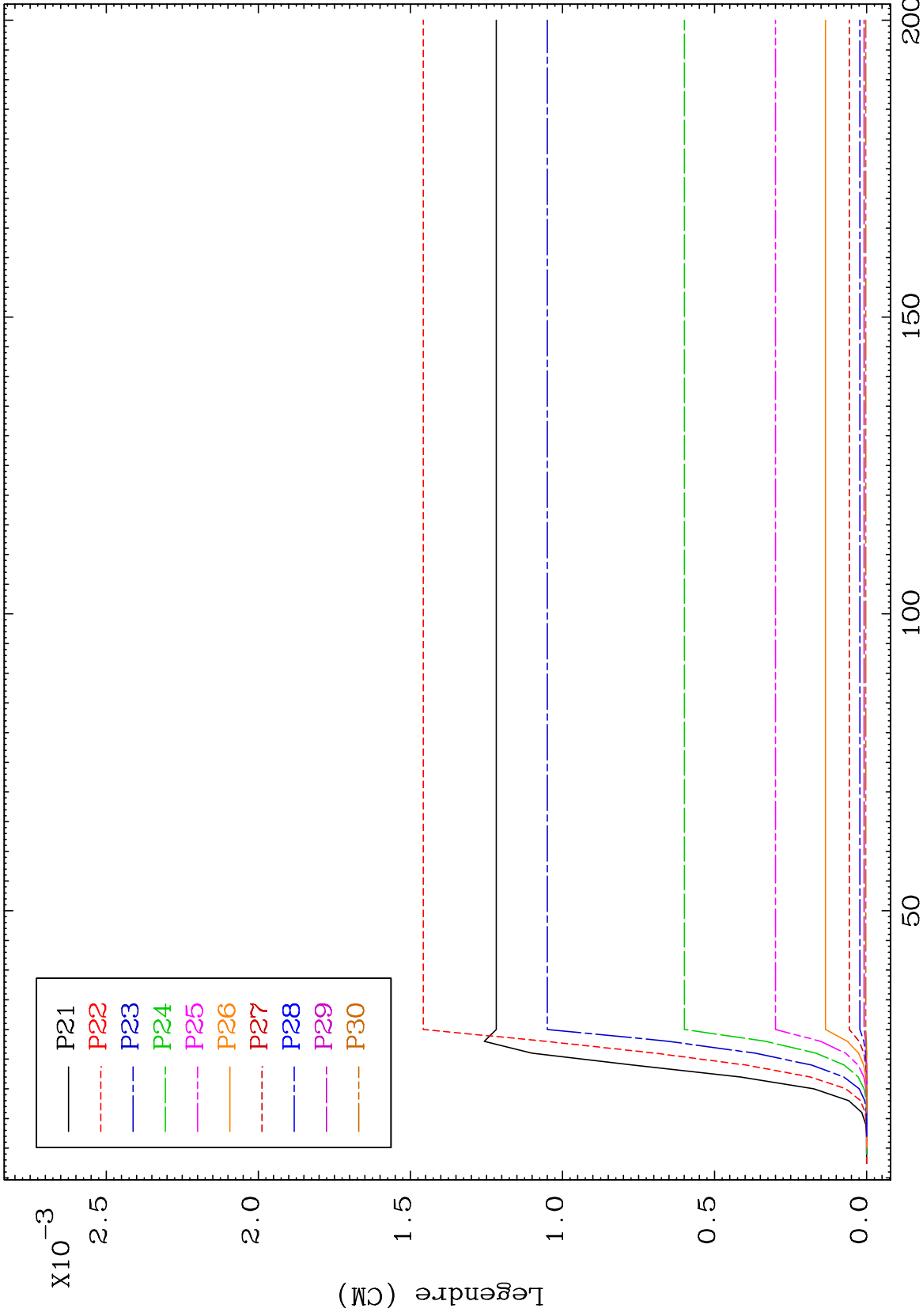
MT= 54 (n,n') Level  
Legendre Coefficients

82-Pb-189



33

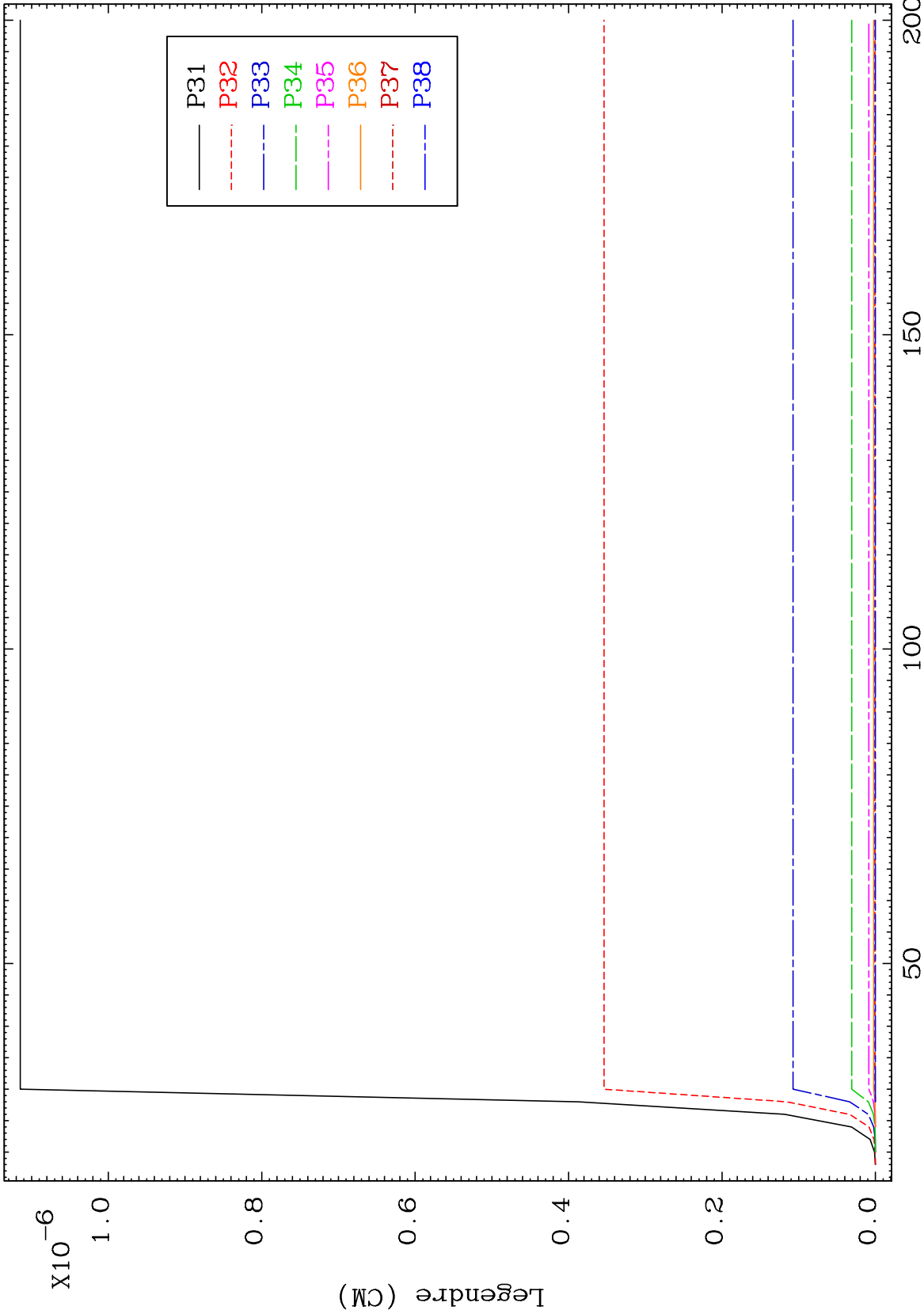
82-Pb-189



MAT 8180

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

82-Pb-189



35

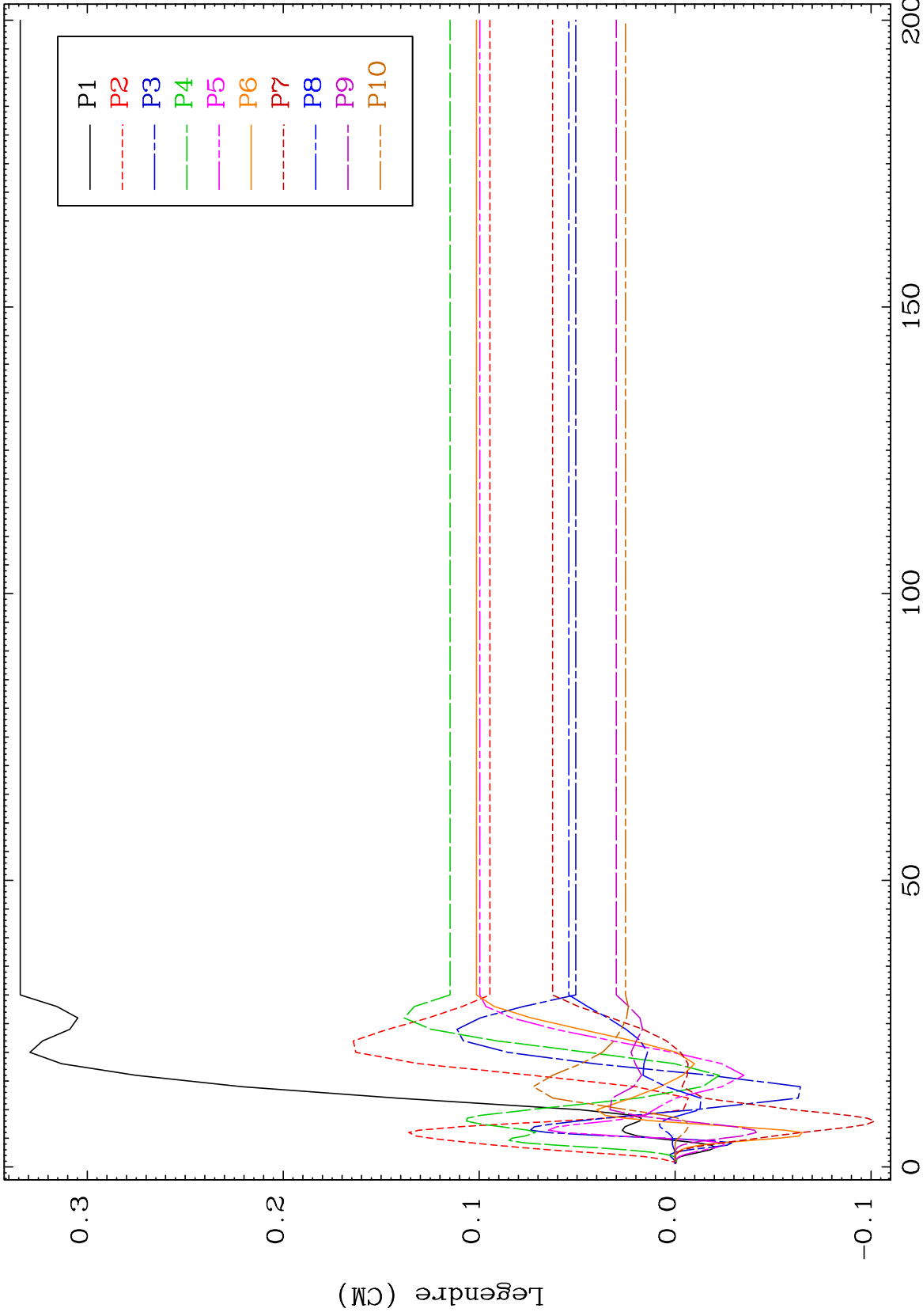
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189

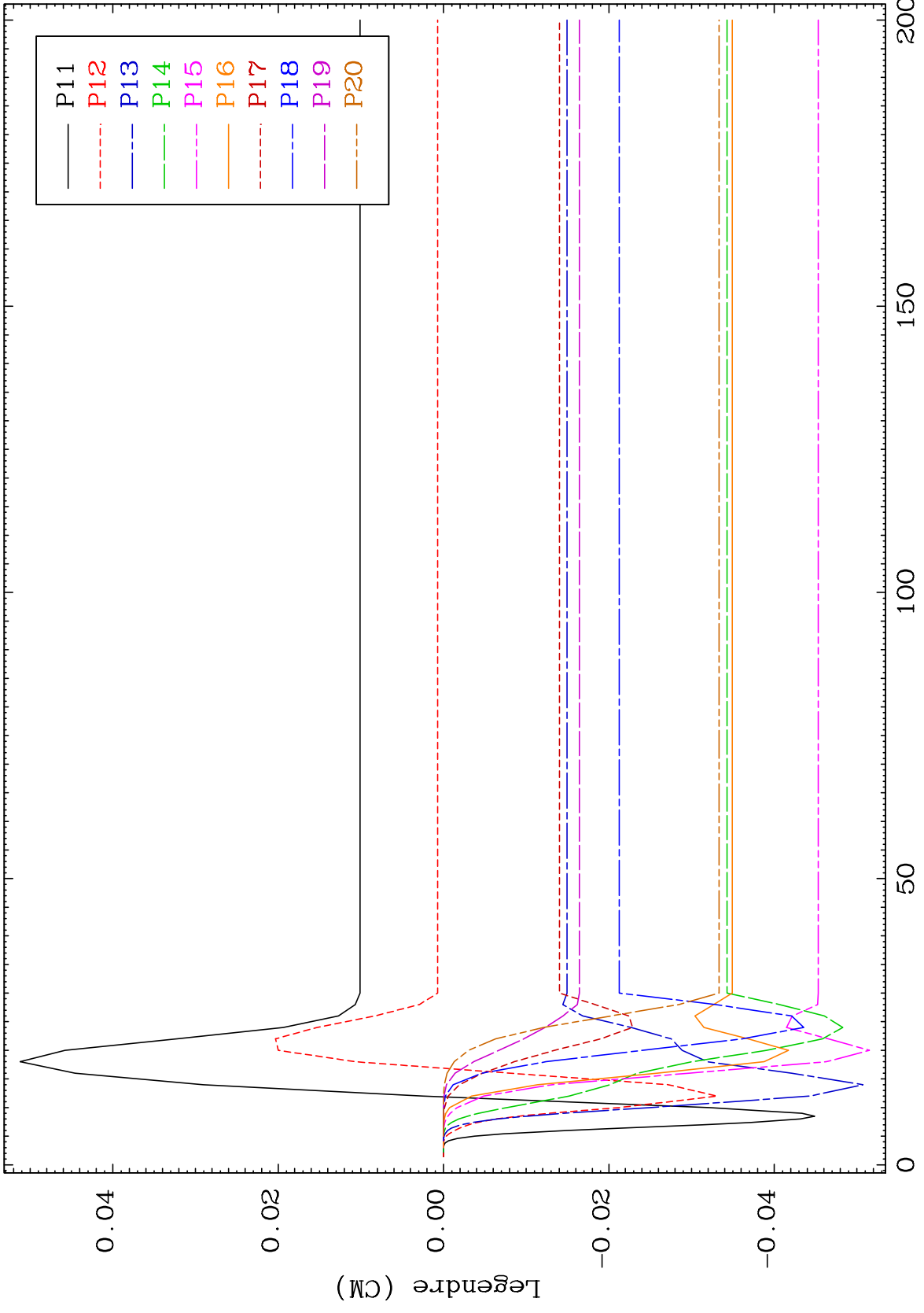


36

Incident Energy (MeV)

82-Pb-189

MAT 8180 MT= 55 (n,n') Level Legendre Coefficients 82-Pb-189

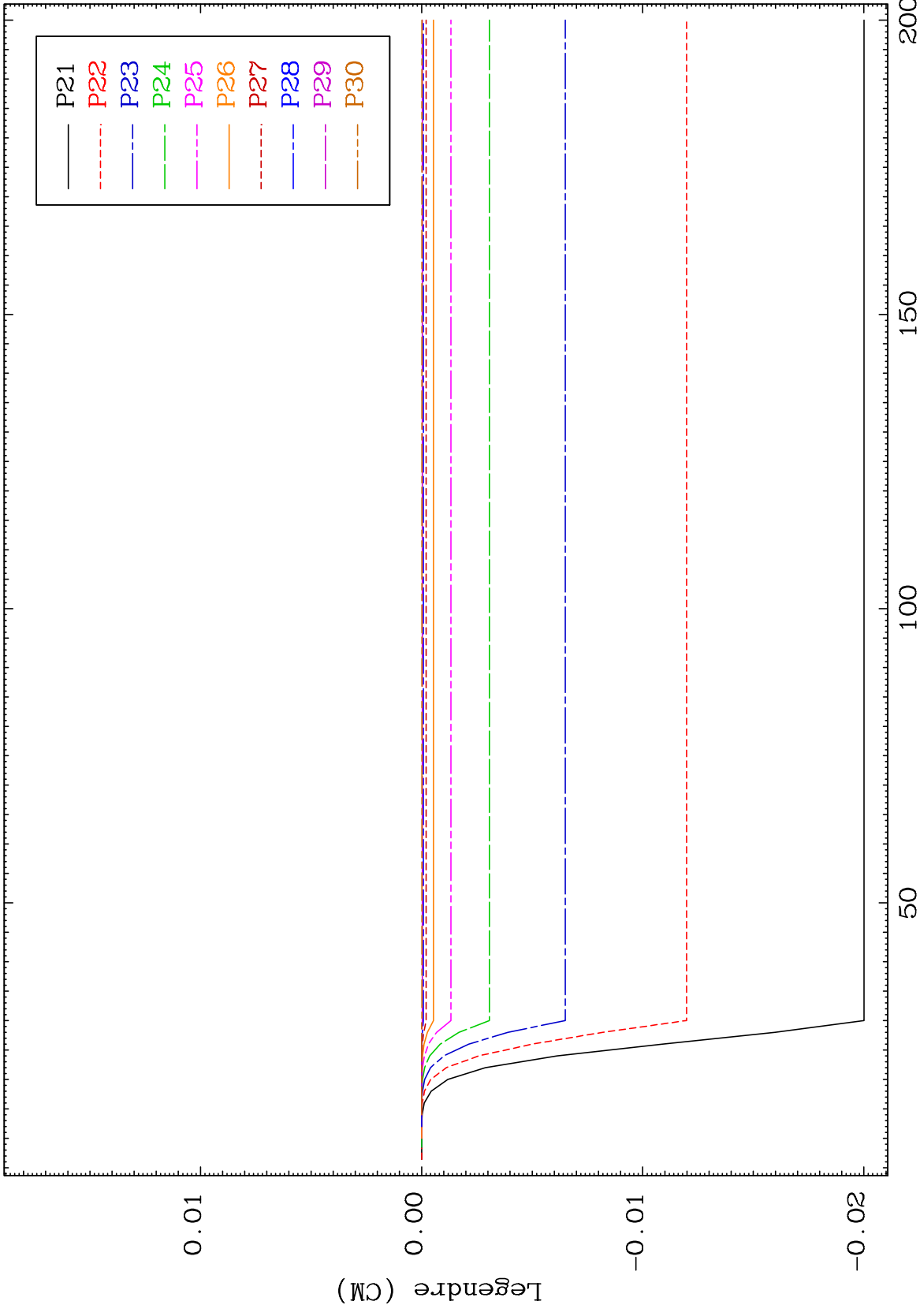


37 82-Pb-189

MAT 8180

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

82-Pb-189



38

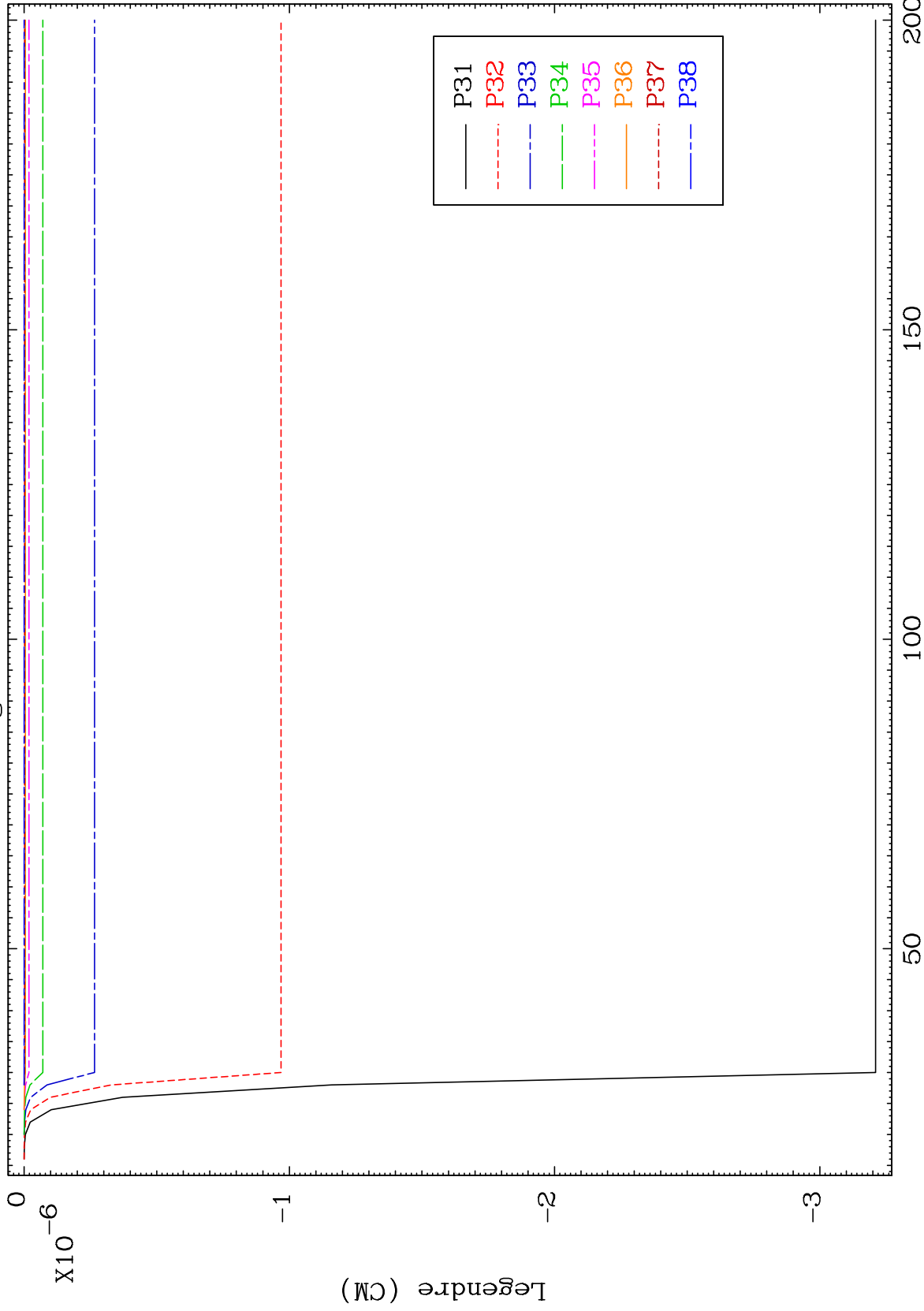
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



82-Pb-189

Incident Energy (MeV)

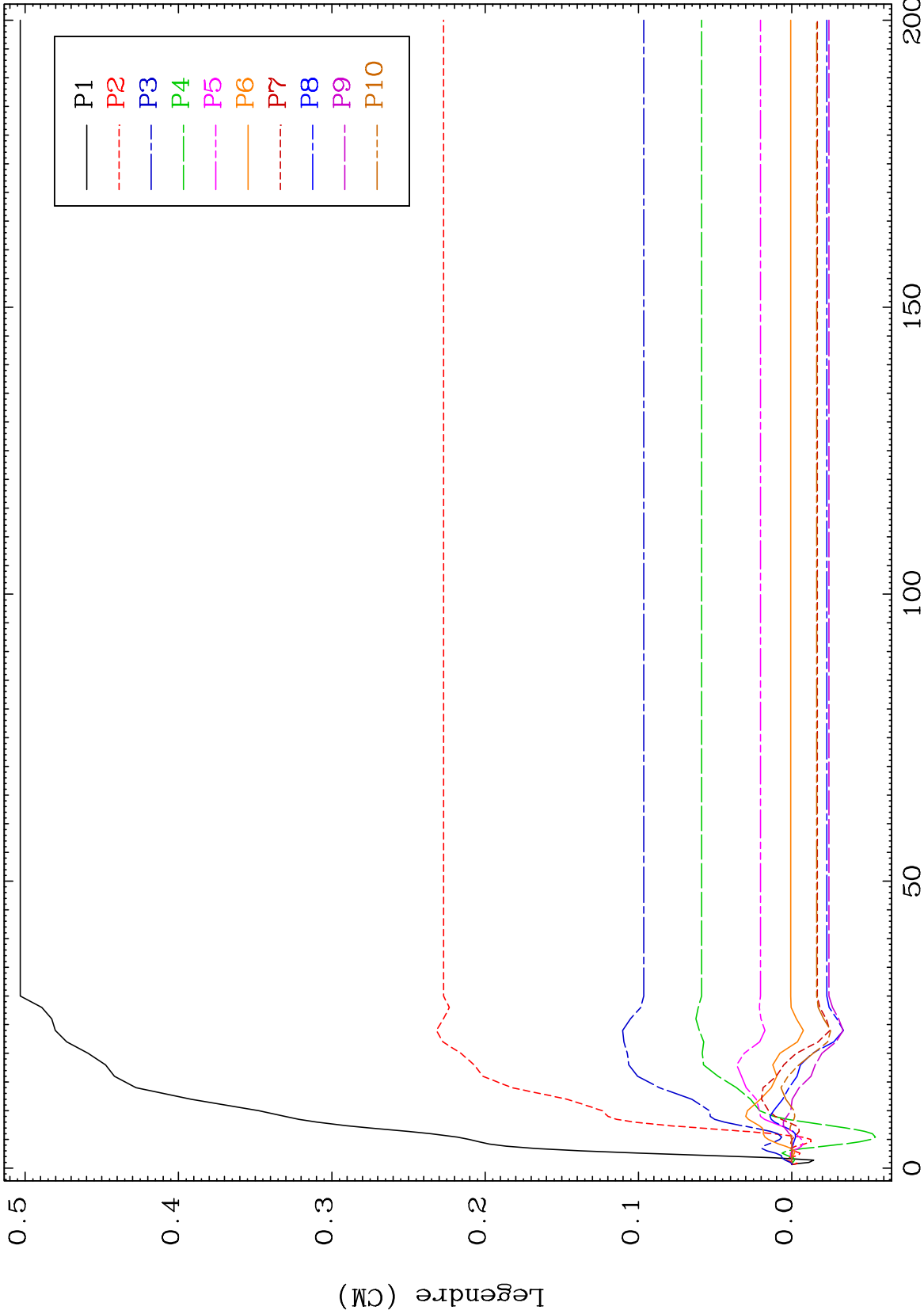
39



MAT 8180

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

82-Pb-189



82-Pb-189

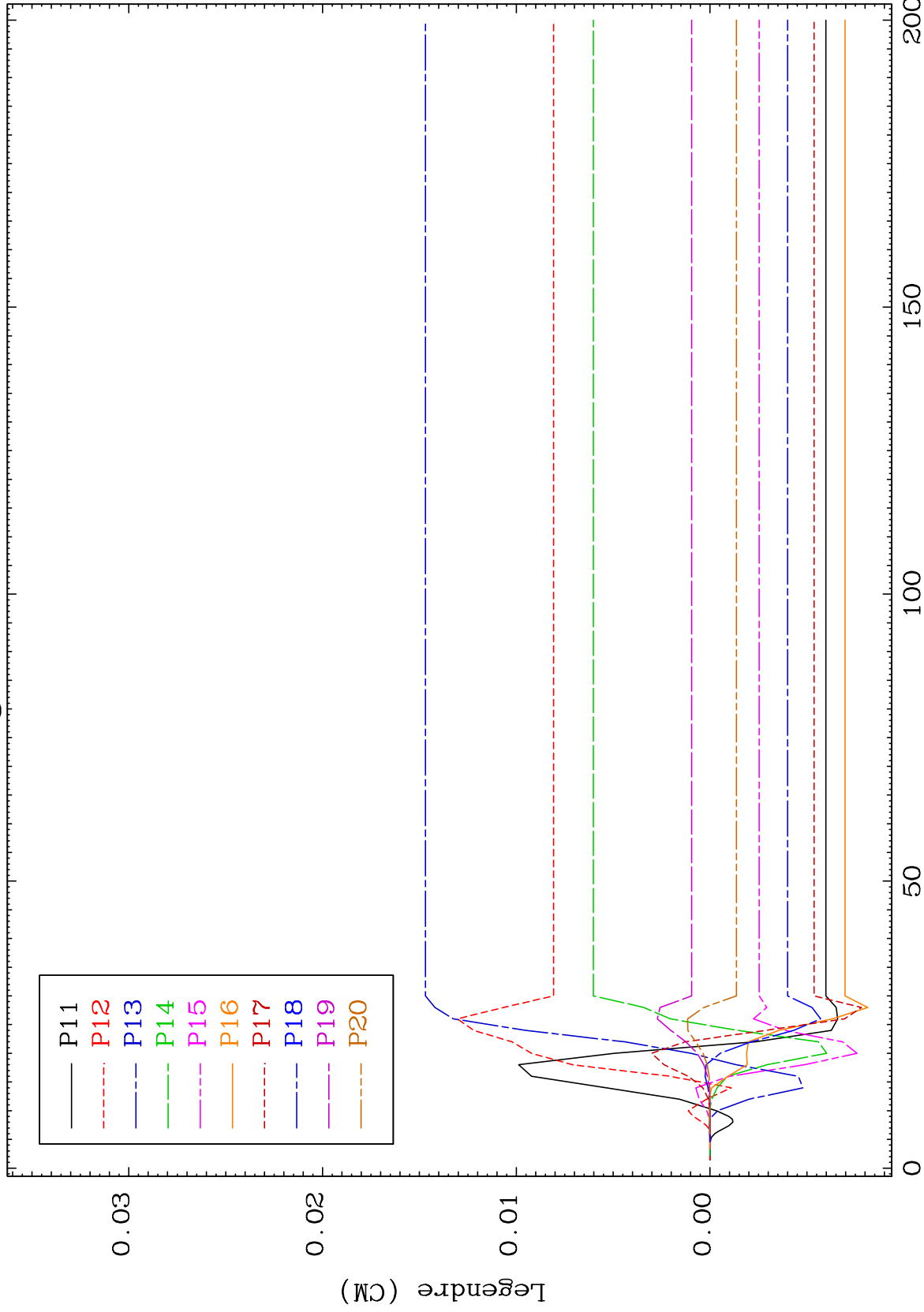
Incident Energy (MeV)

40

MAT 8180

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

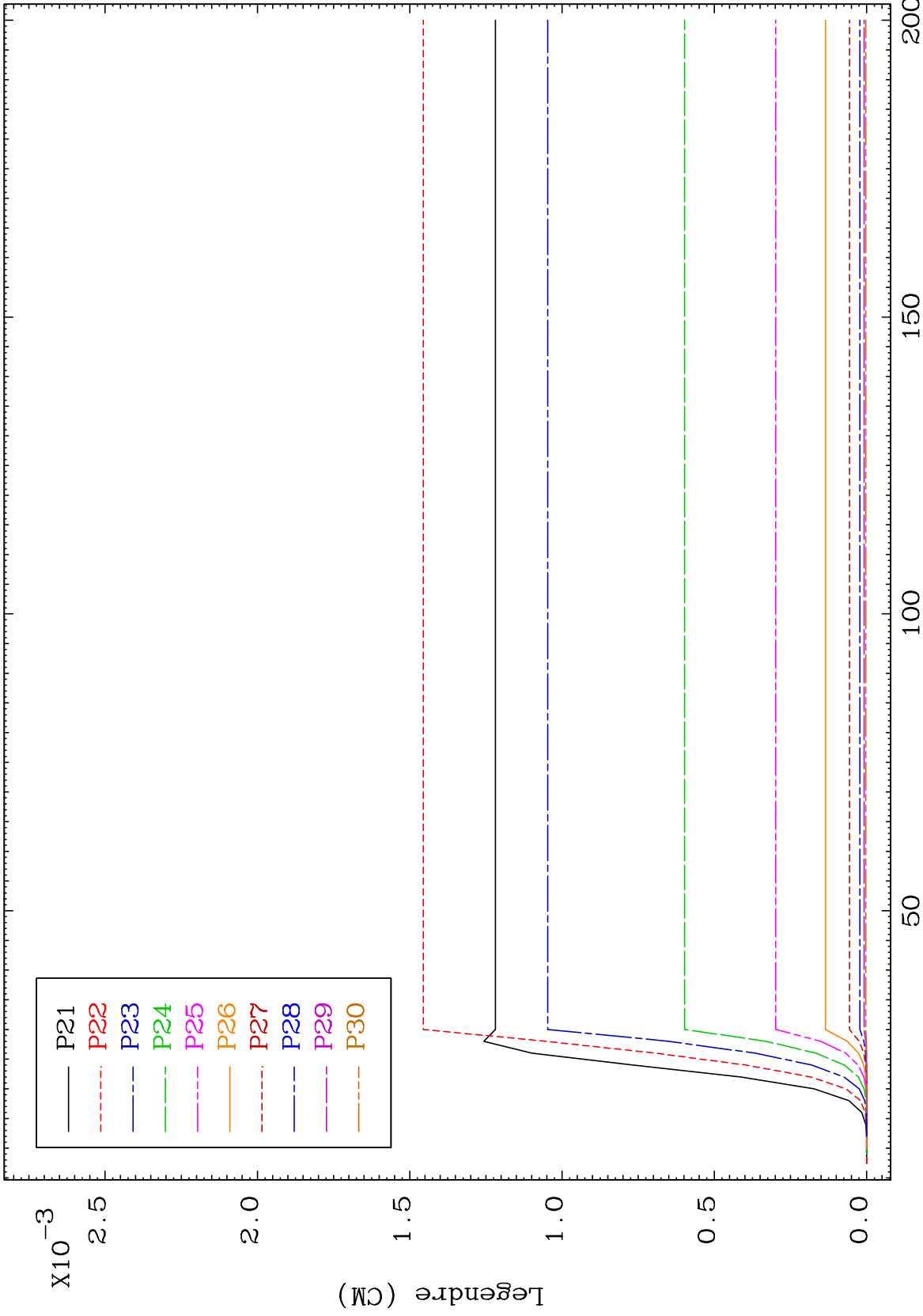
82-Pb-189



MAT 8180

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

82-Pb-189



42

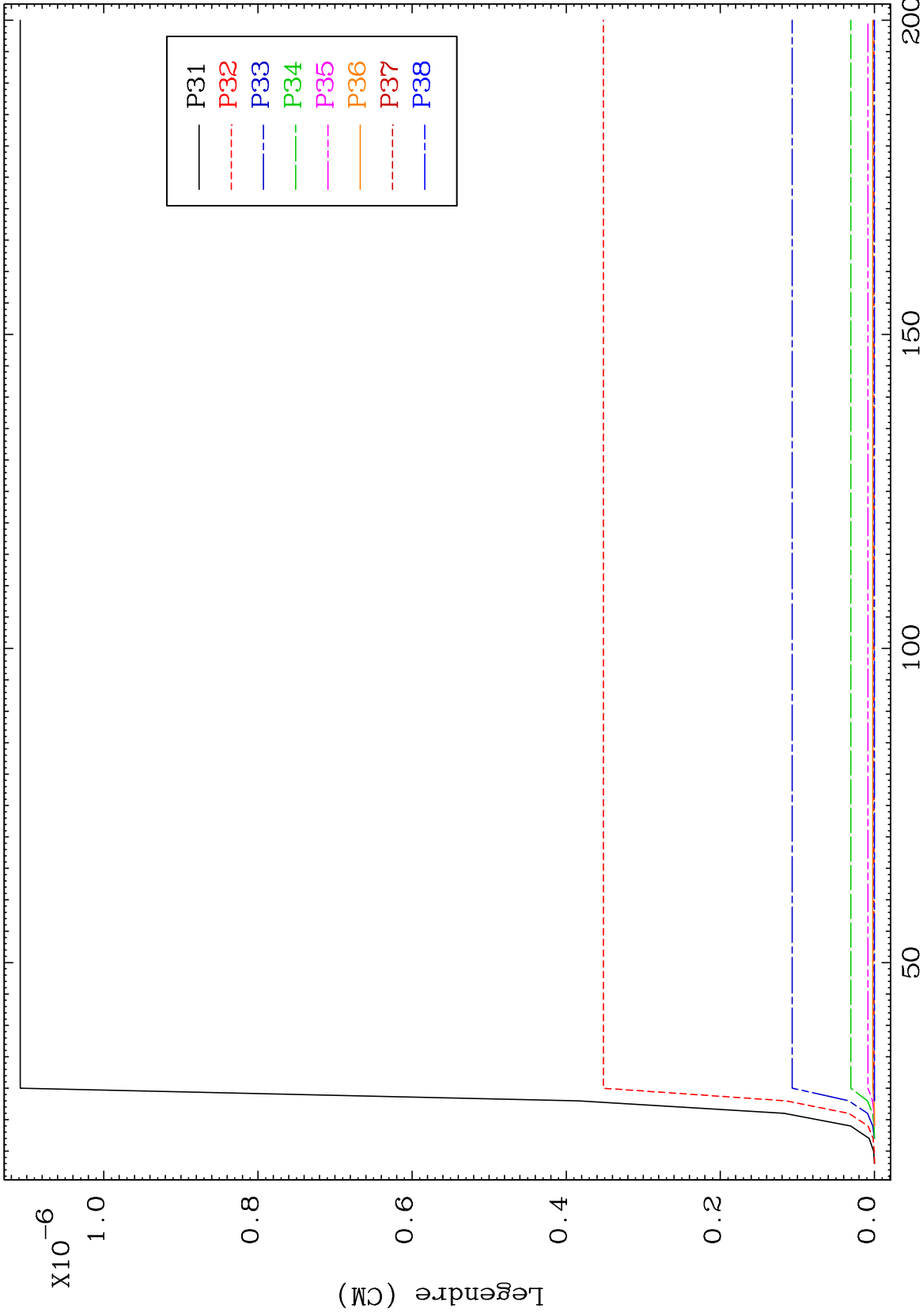
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



43

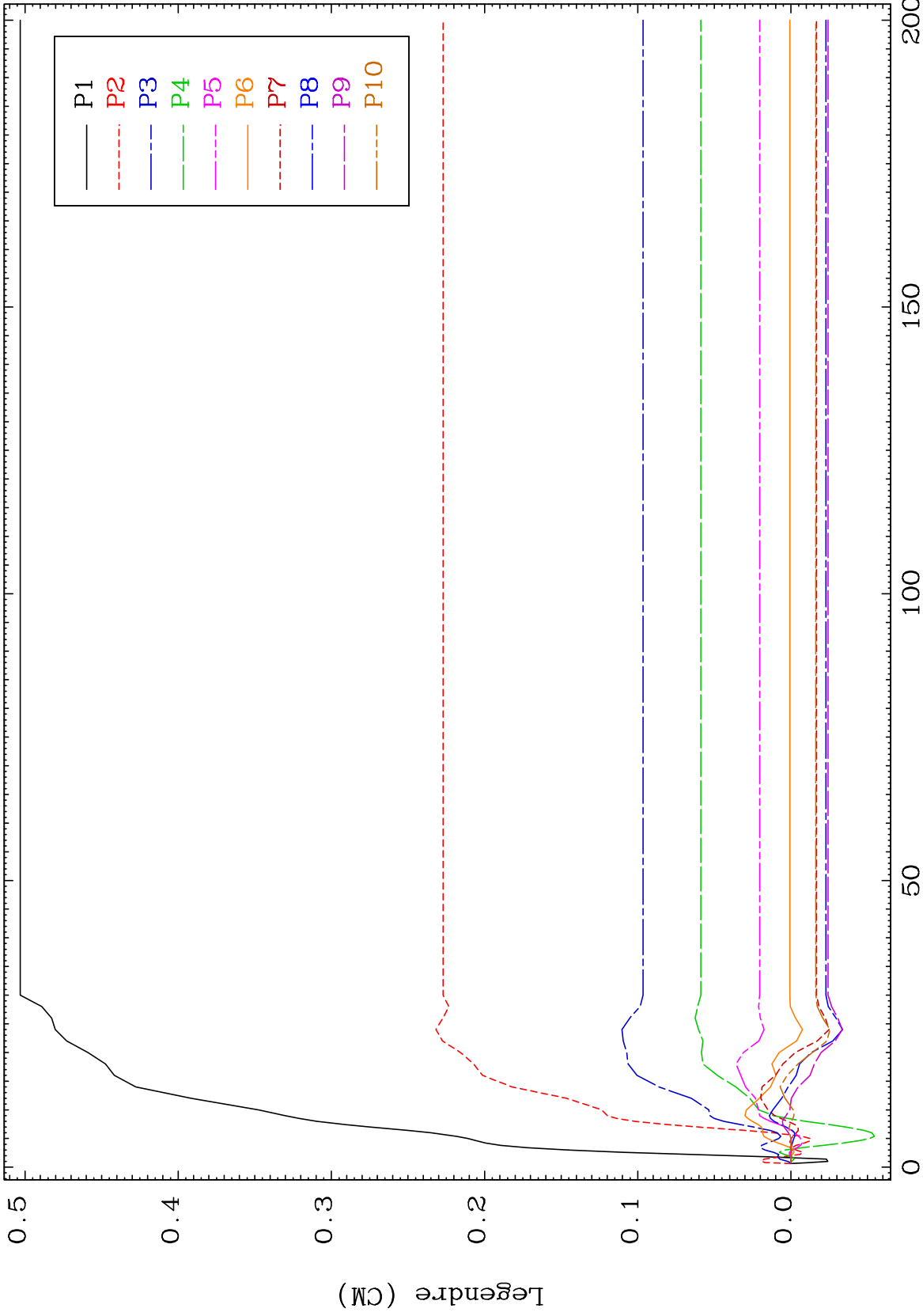
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



44

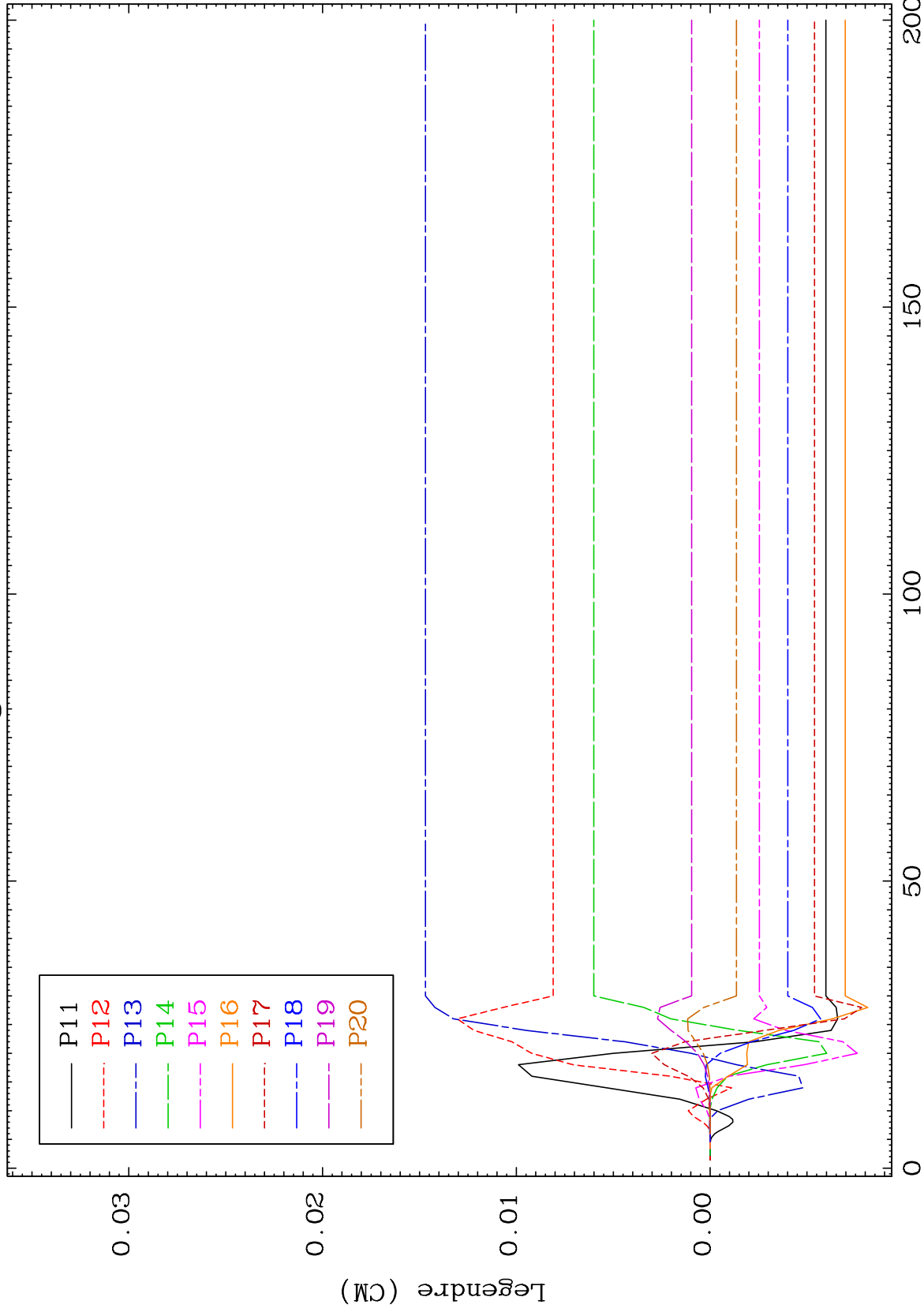
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

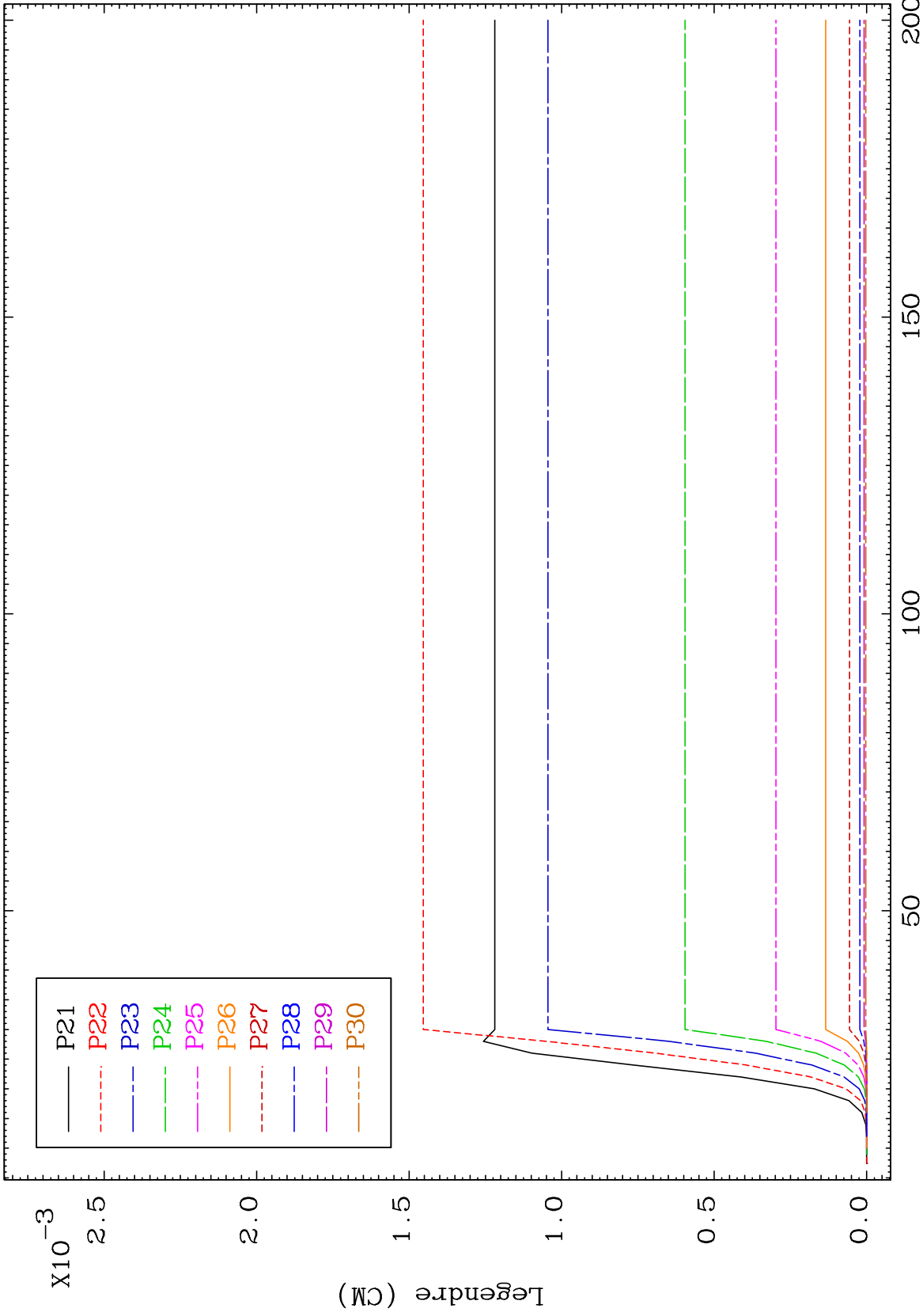
82-Pb-189



45

Incident Energy (MeV)

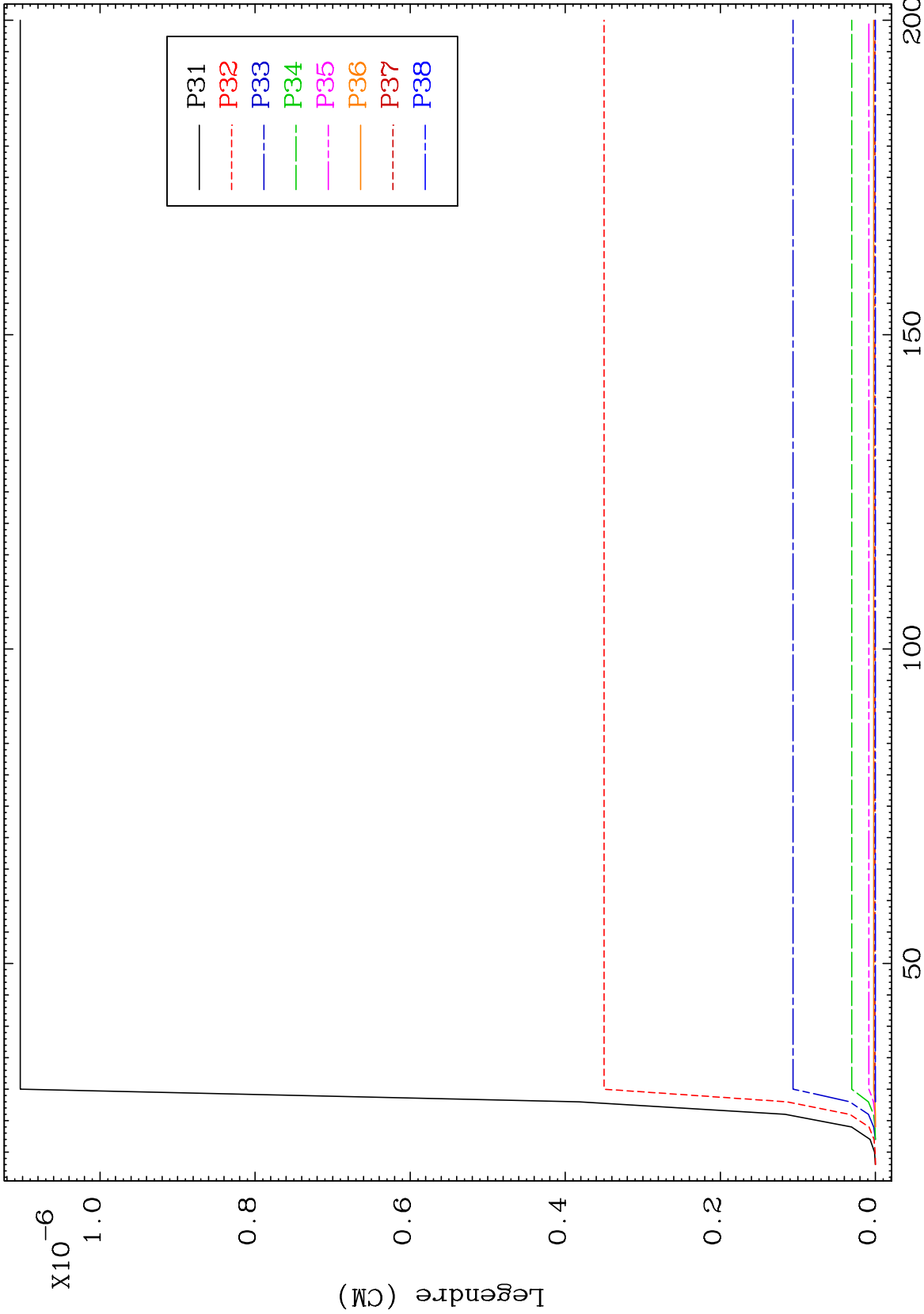
82-Pb-189



MAT 8180

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

82-Pb-189



47

Incident Energy (MeV)

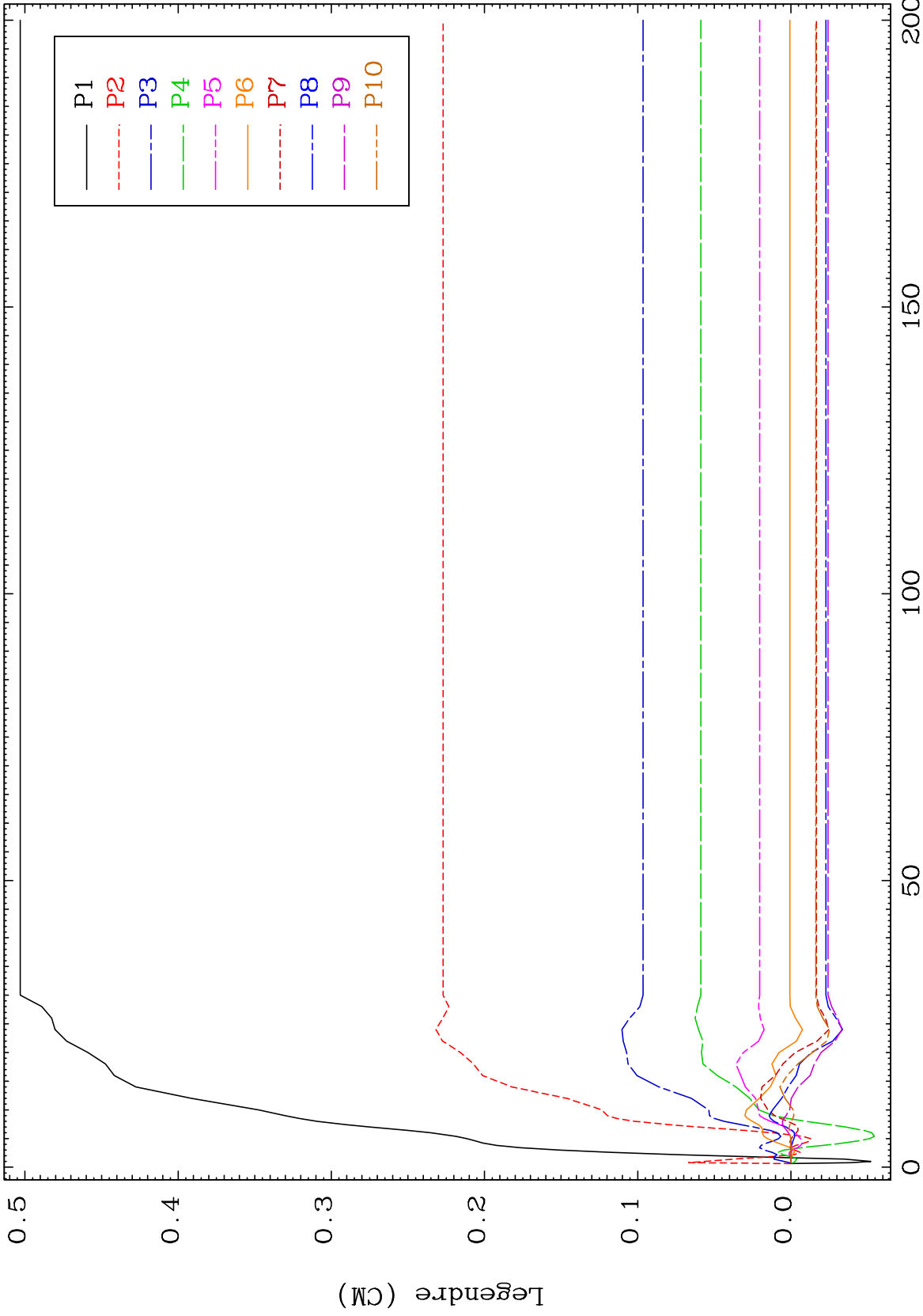
82-Pb-189



MAT 8180

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

82-Pb-189



48

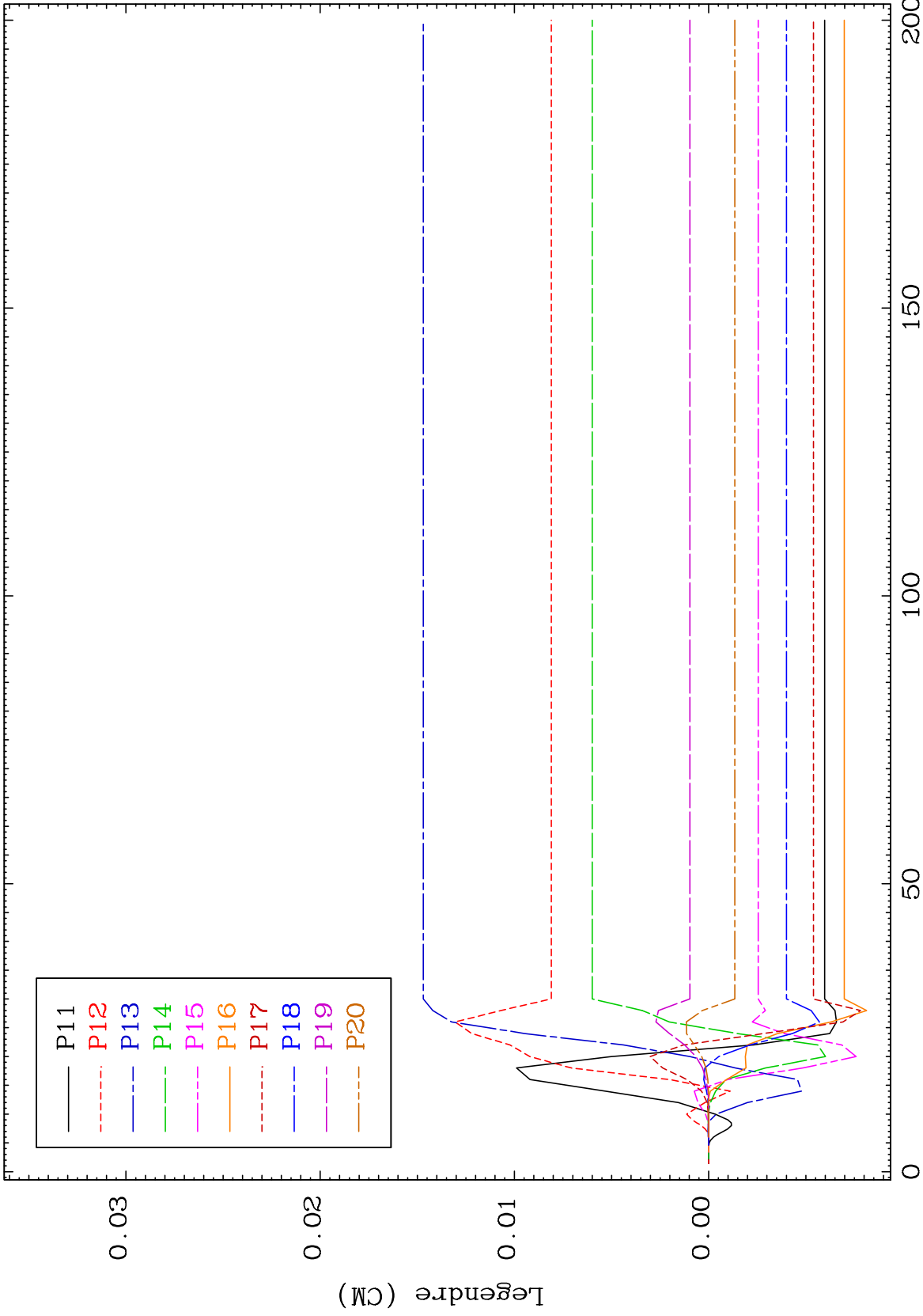
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



49

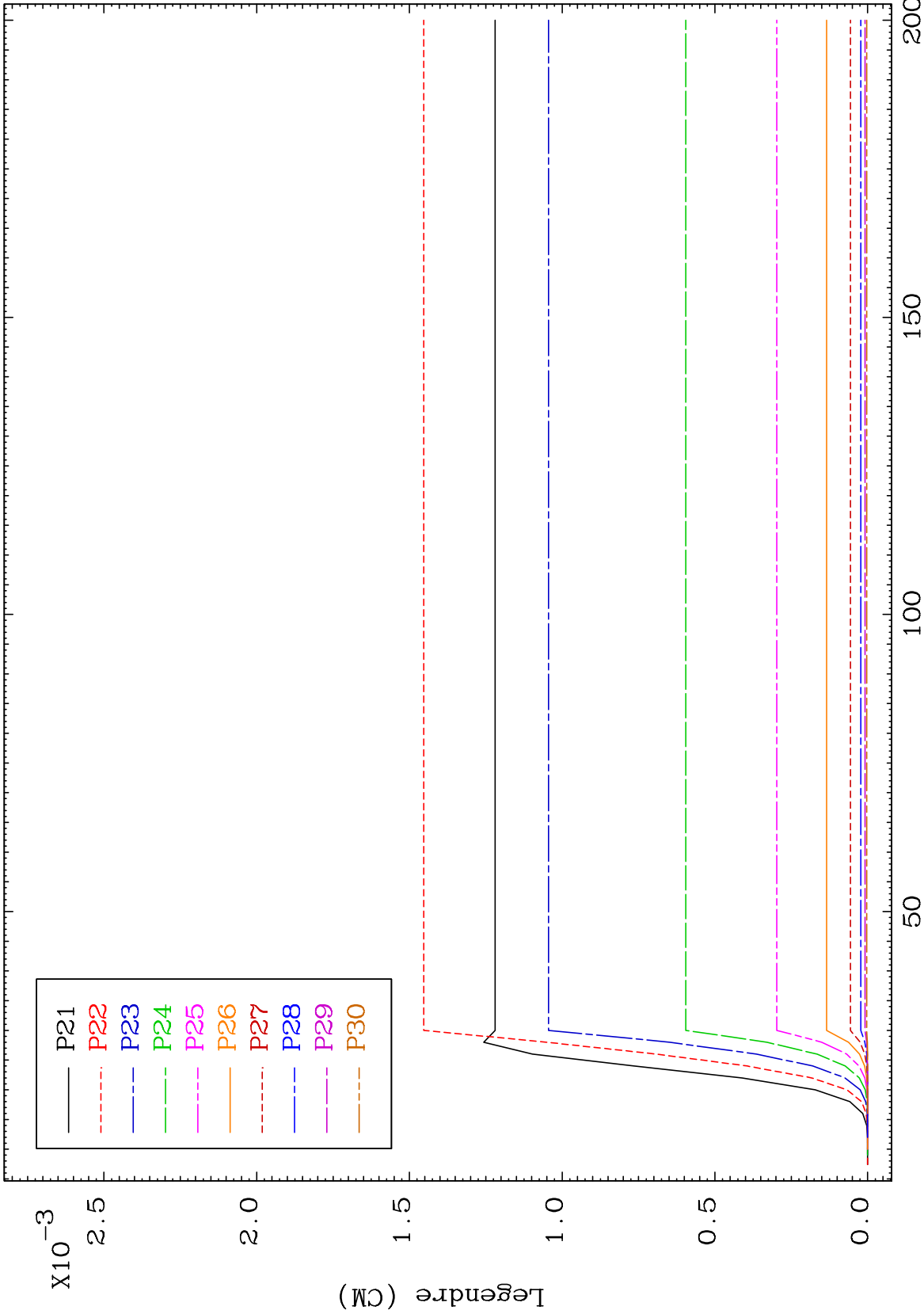
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



50

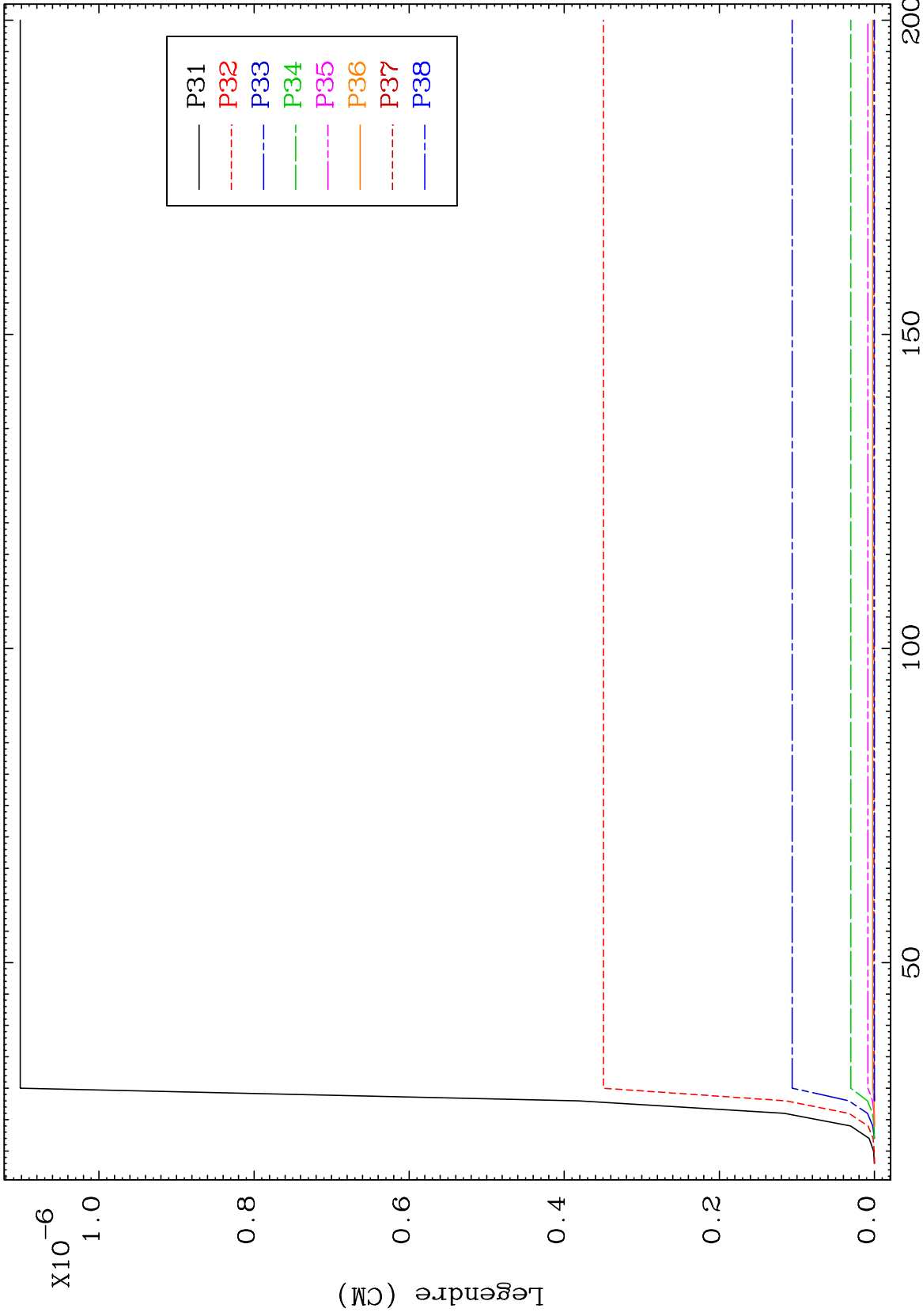
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

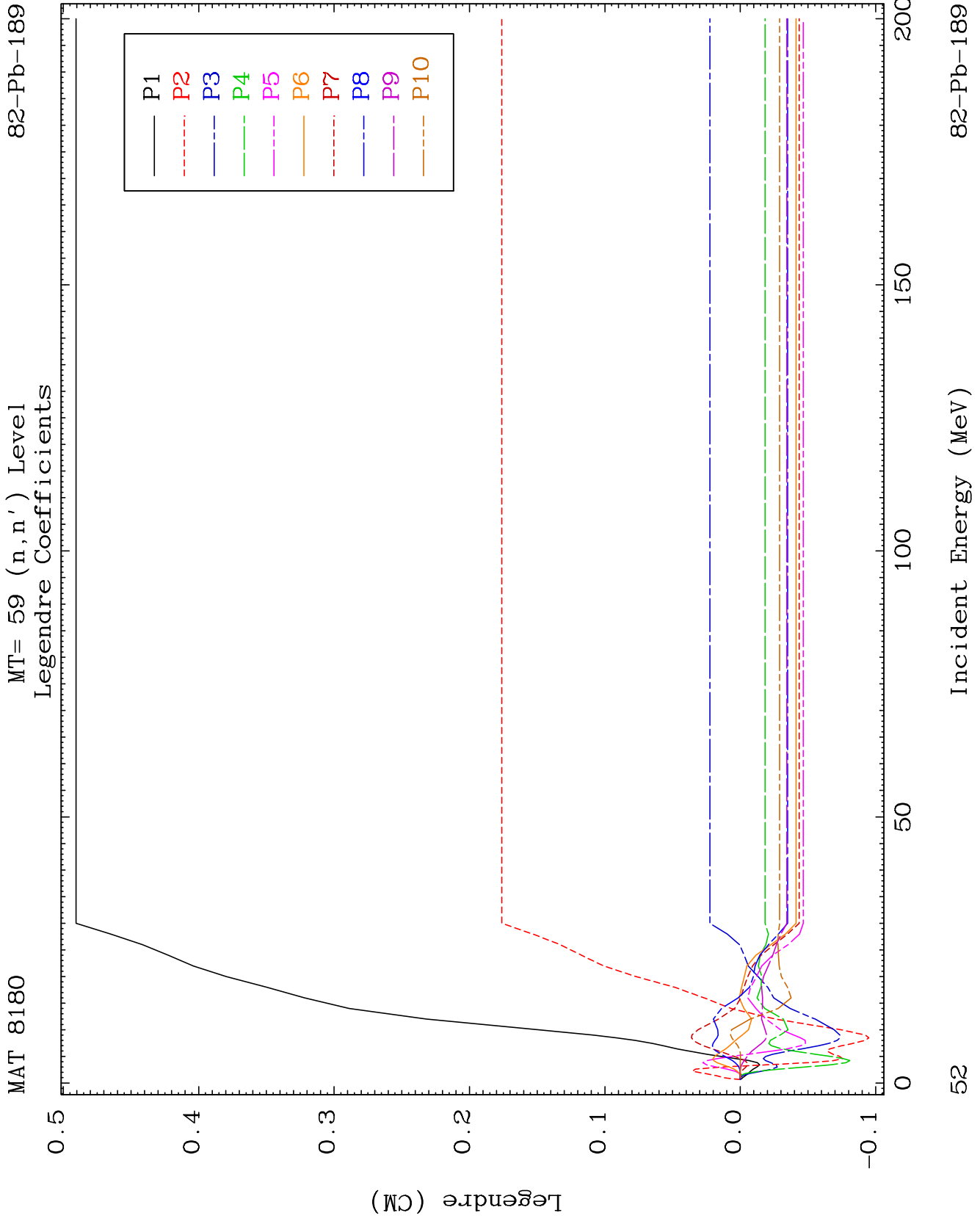
82-Pb-189



51

Incident Energy (MeV)

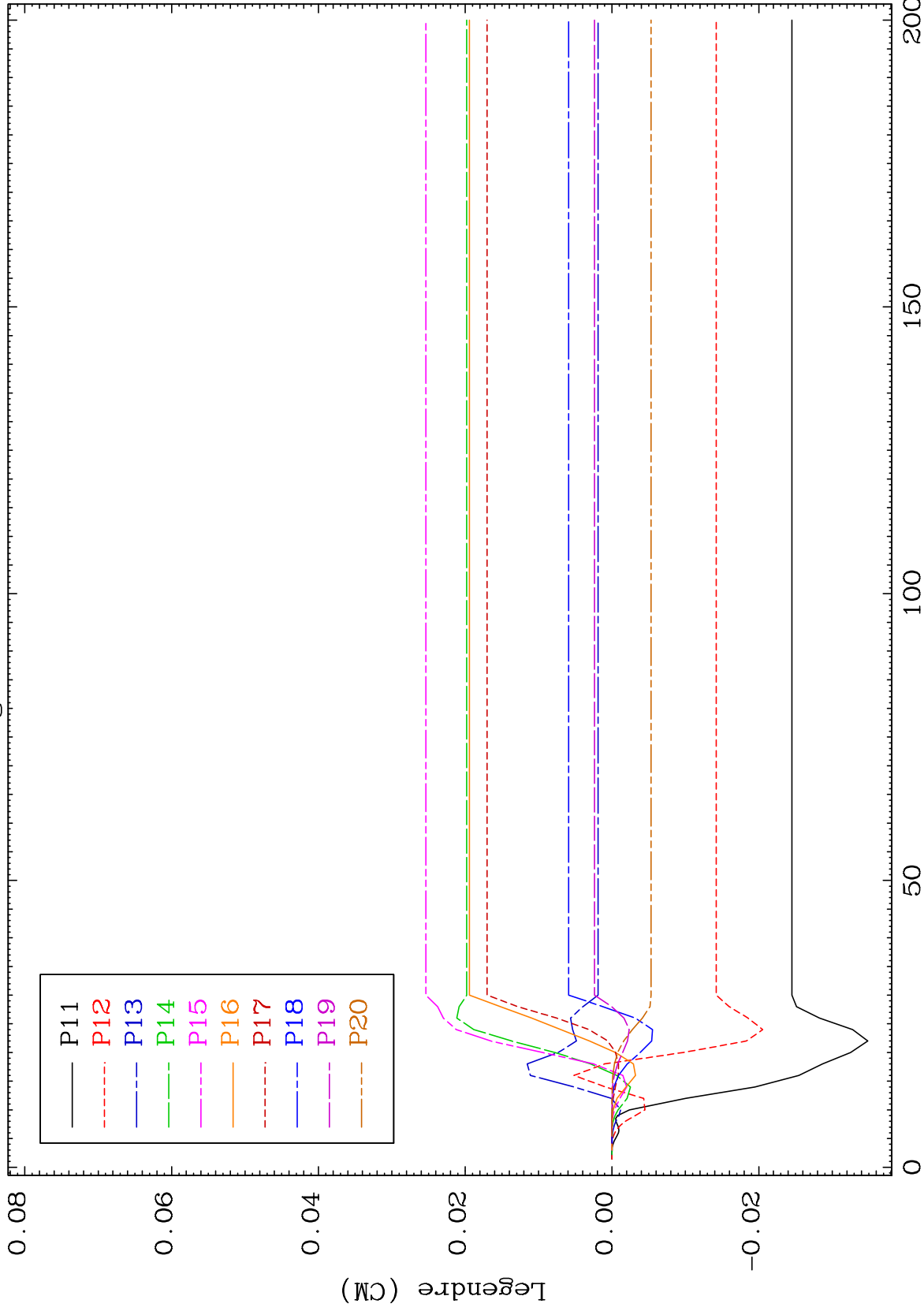
82-Pb-189



MAT 8180

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

82-Pb-189



53

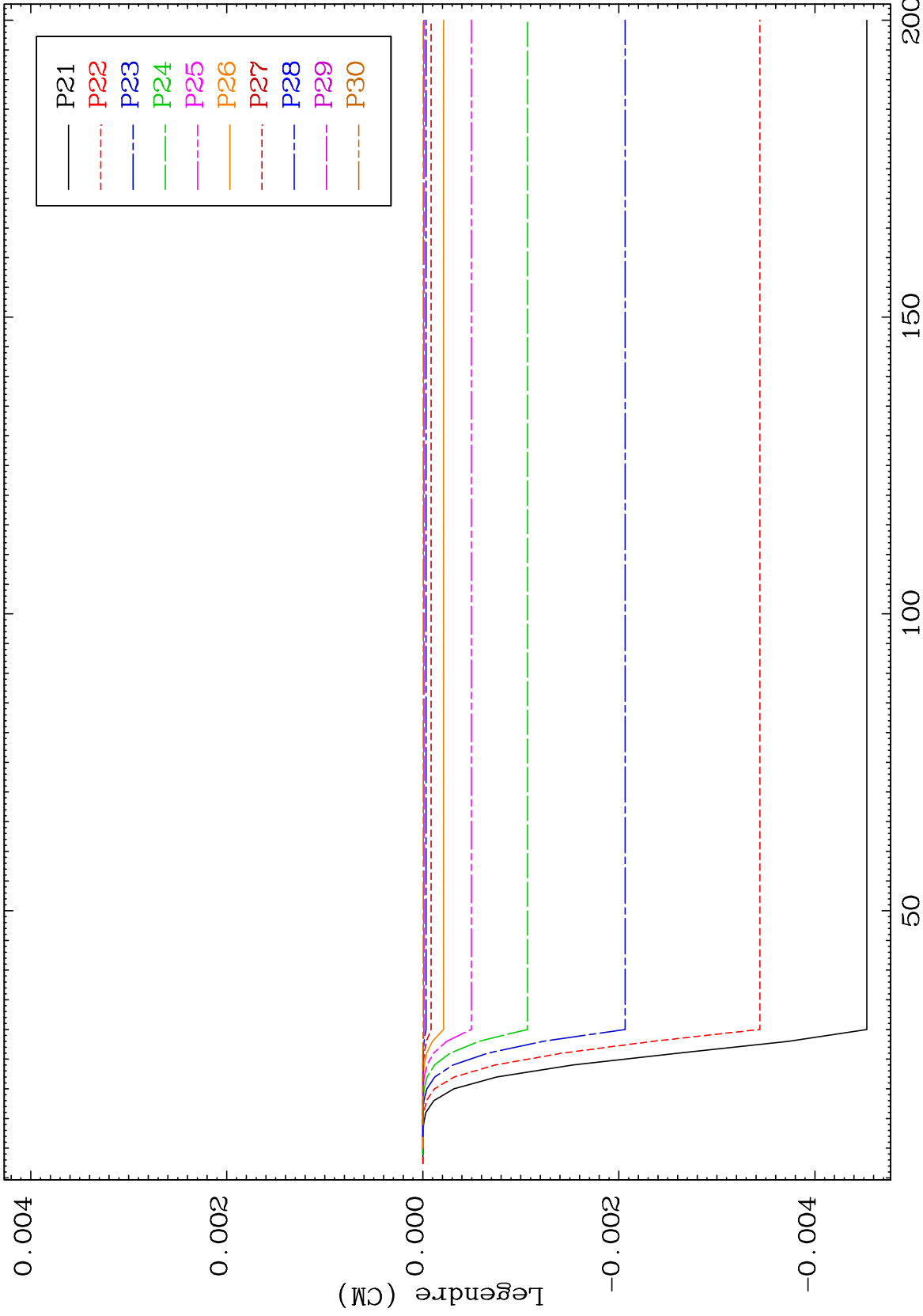
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



54

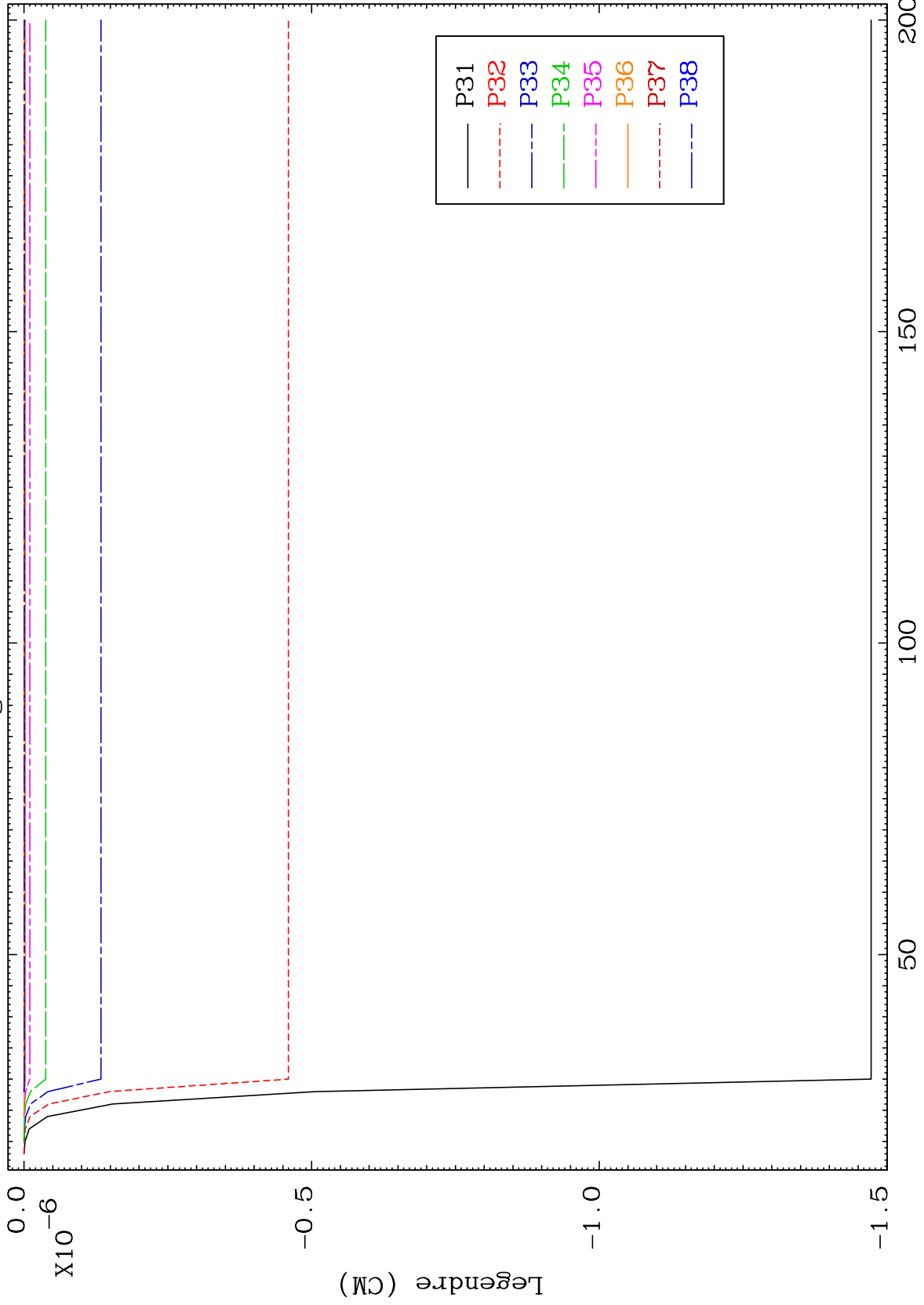
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



82-Pb-189

Incident Energy (MeV)

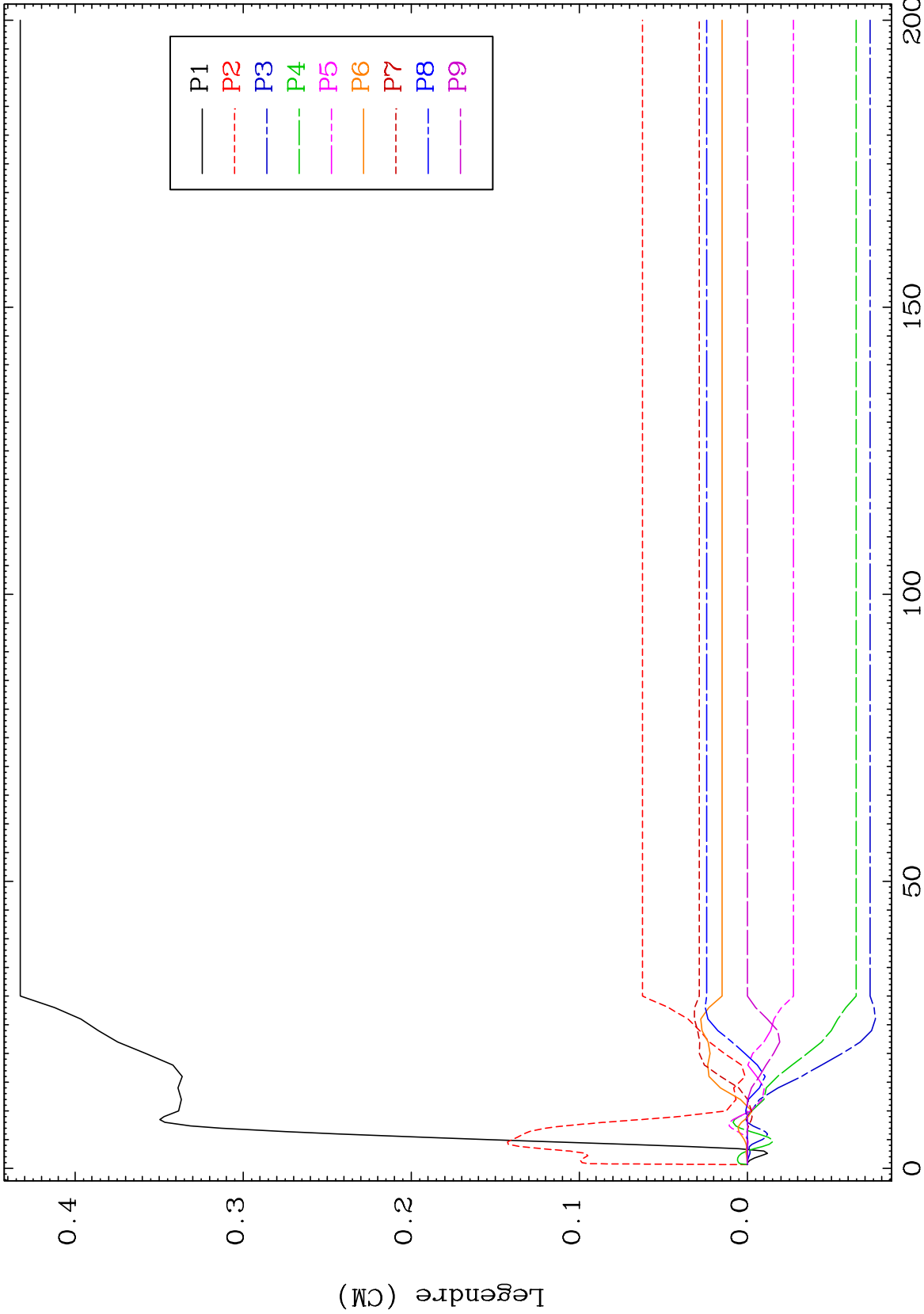
55



MAT 8180

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

82-Pb-189



56

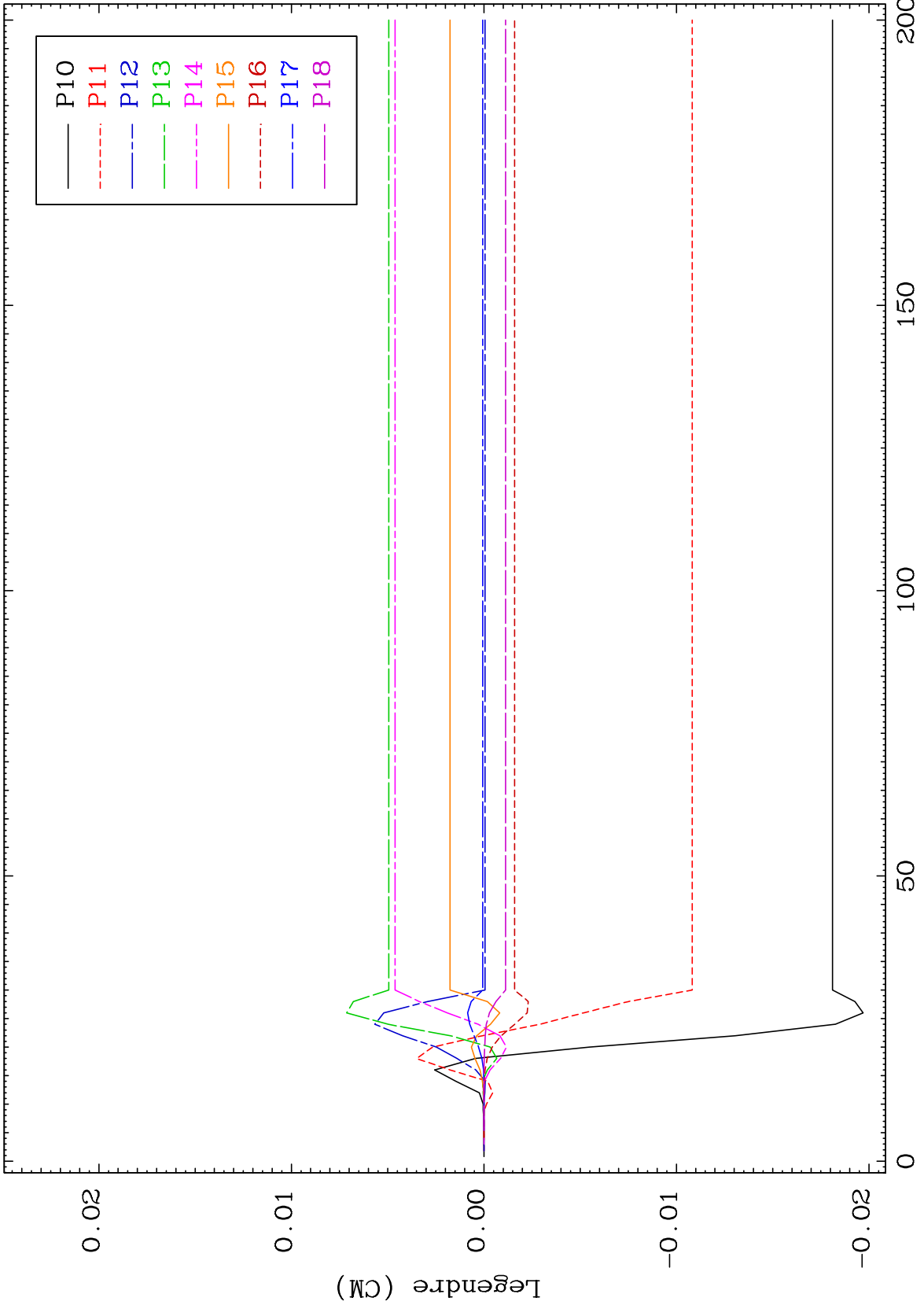
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



57

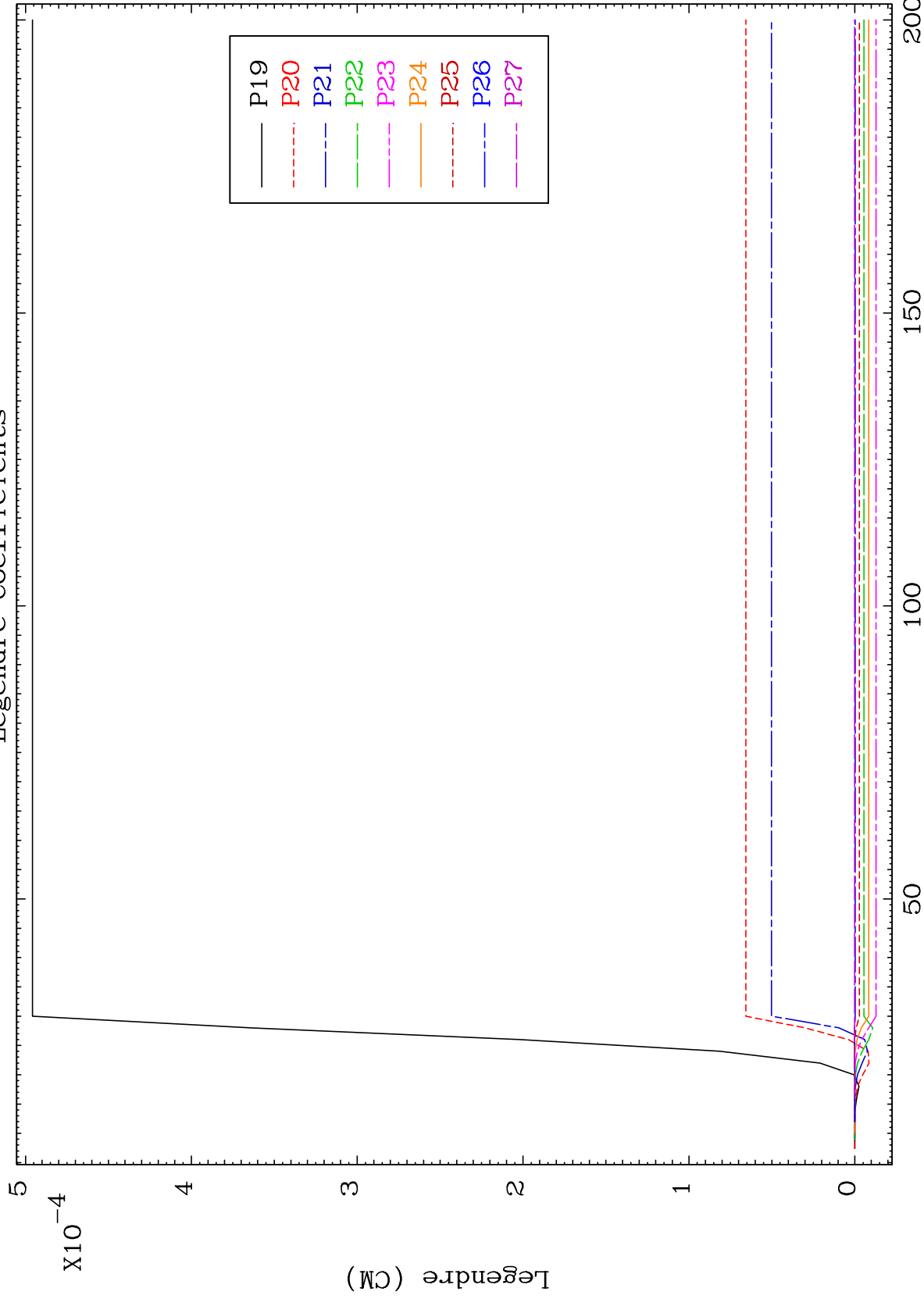
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



58

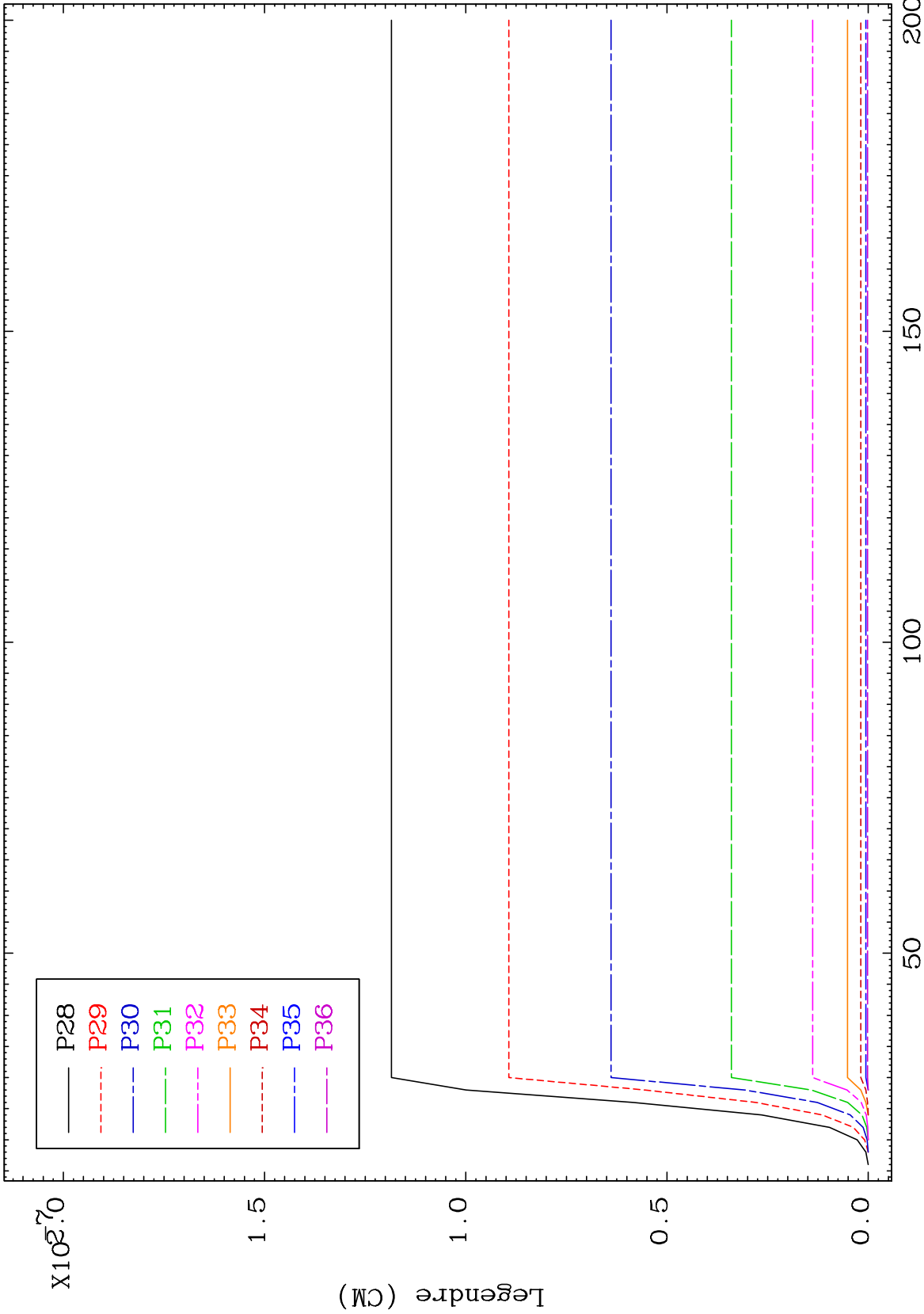
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



59

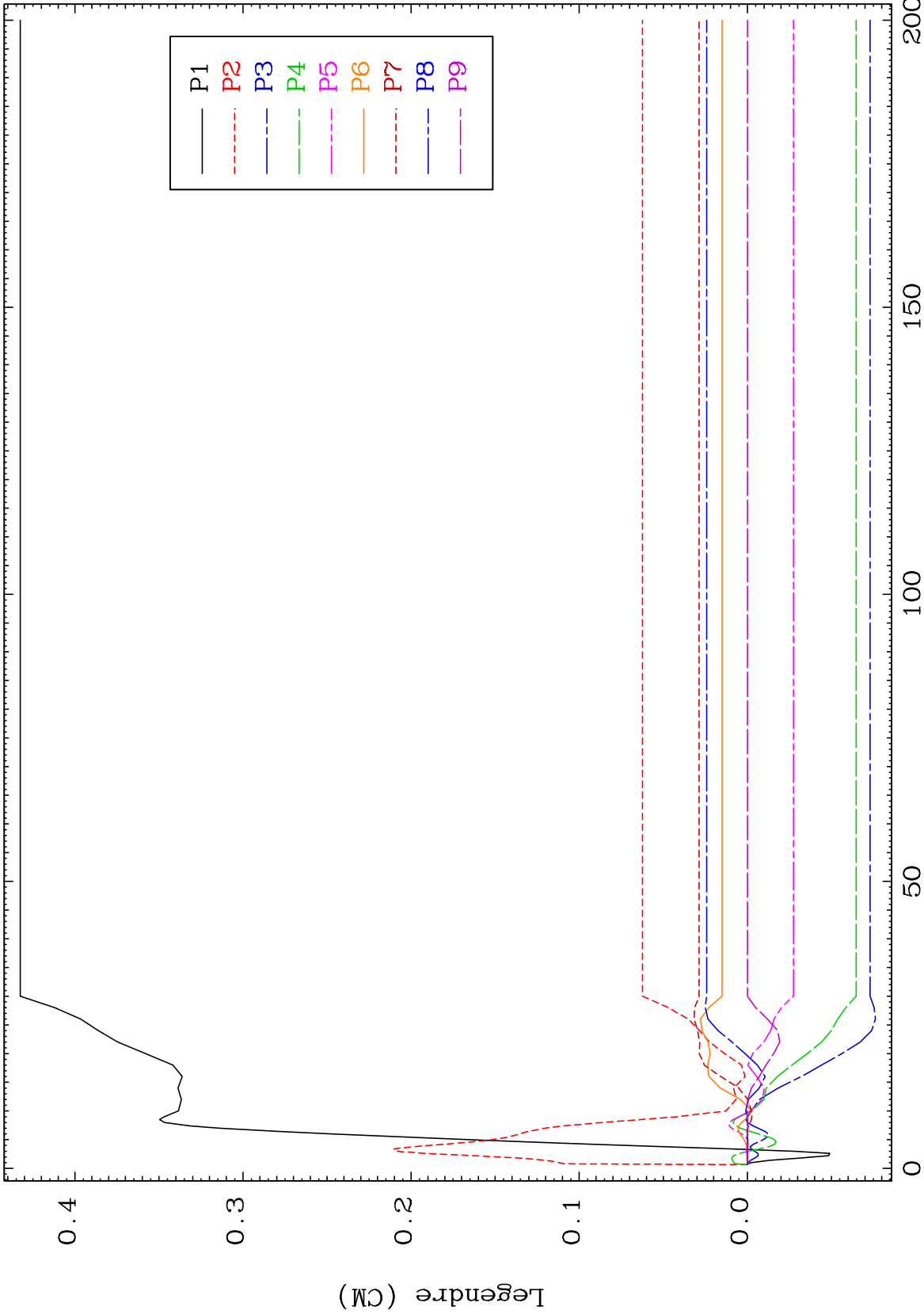
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



60

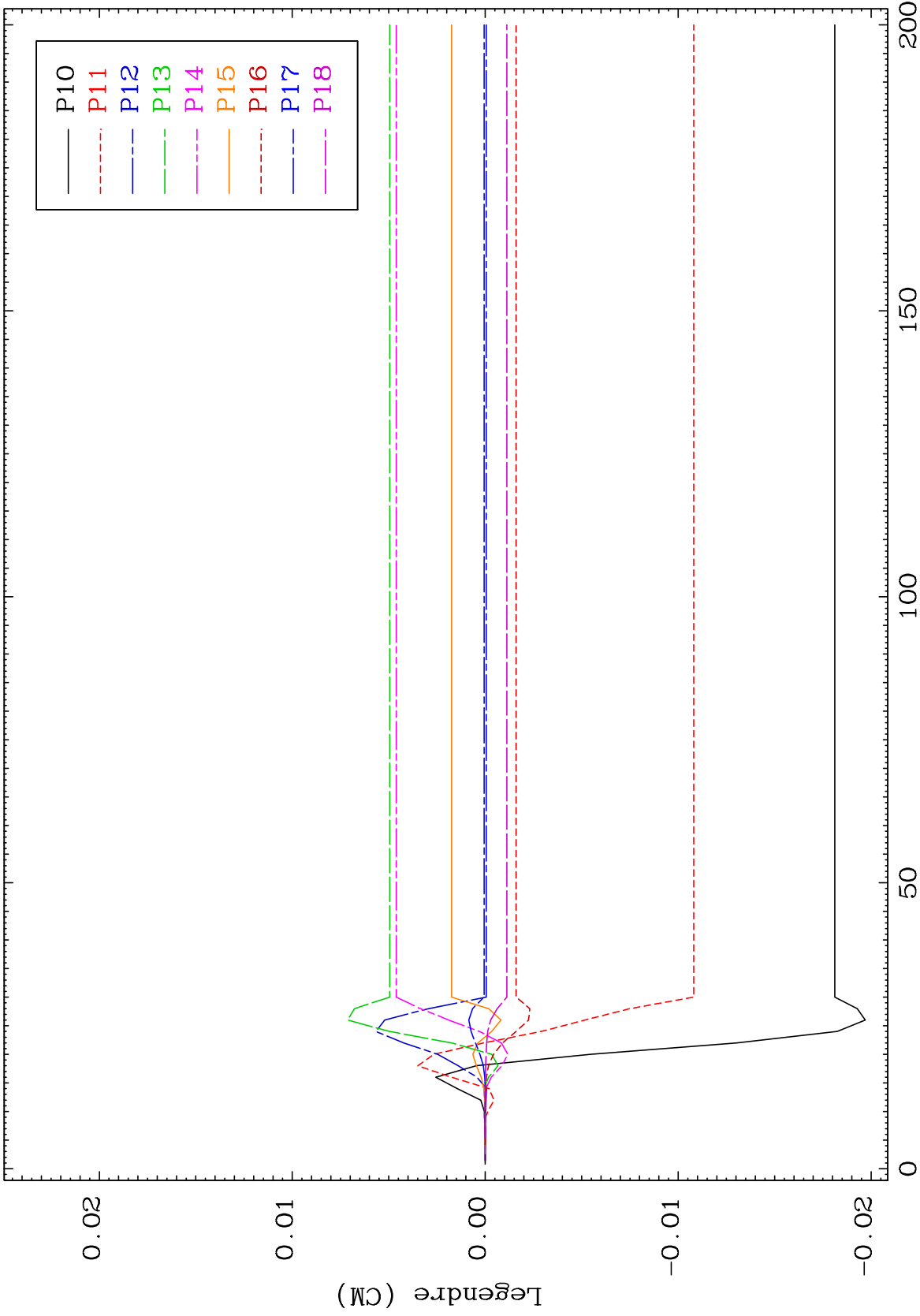
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



61

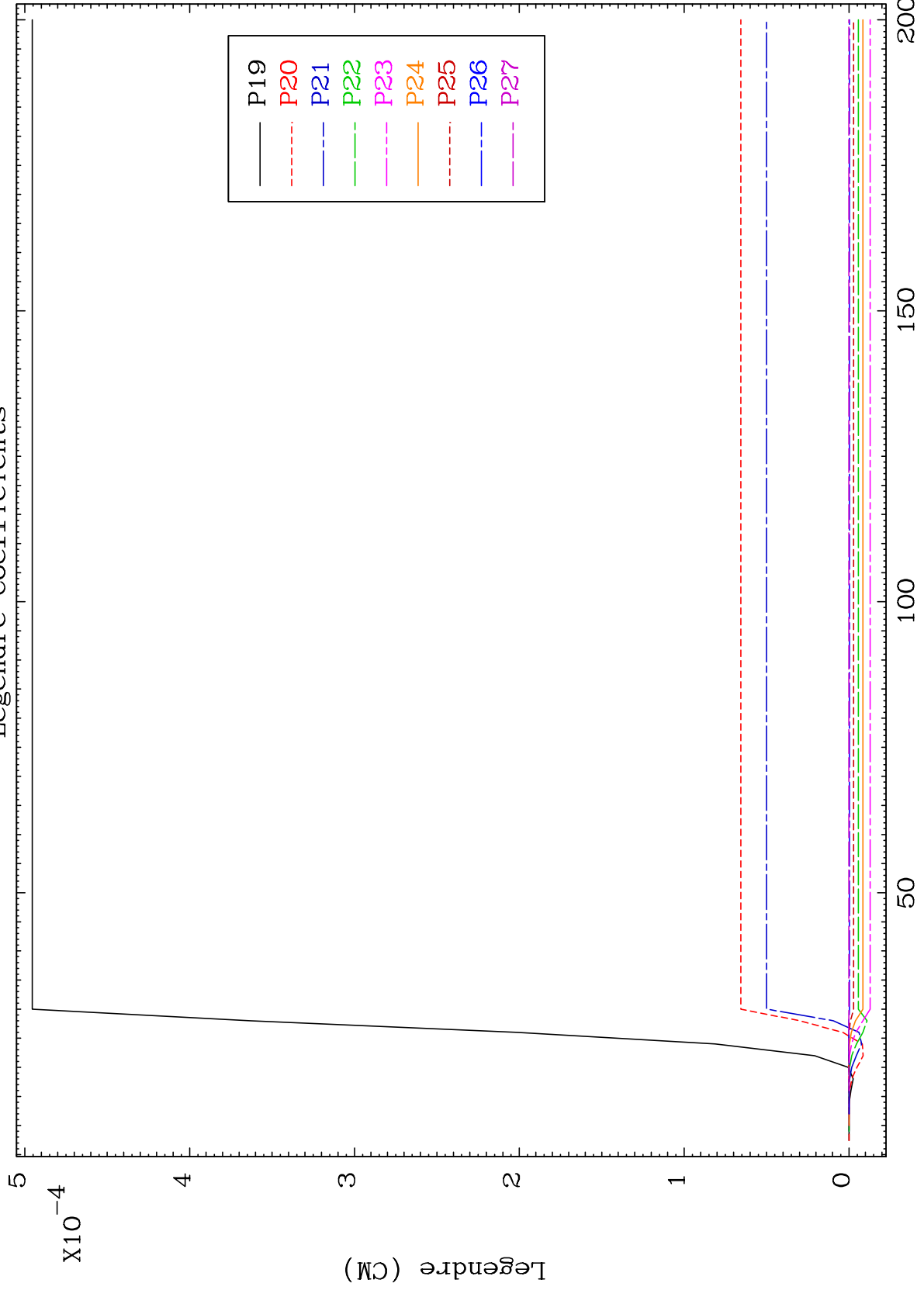
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



62

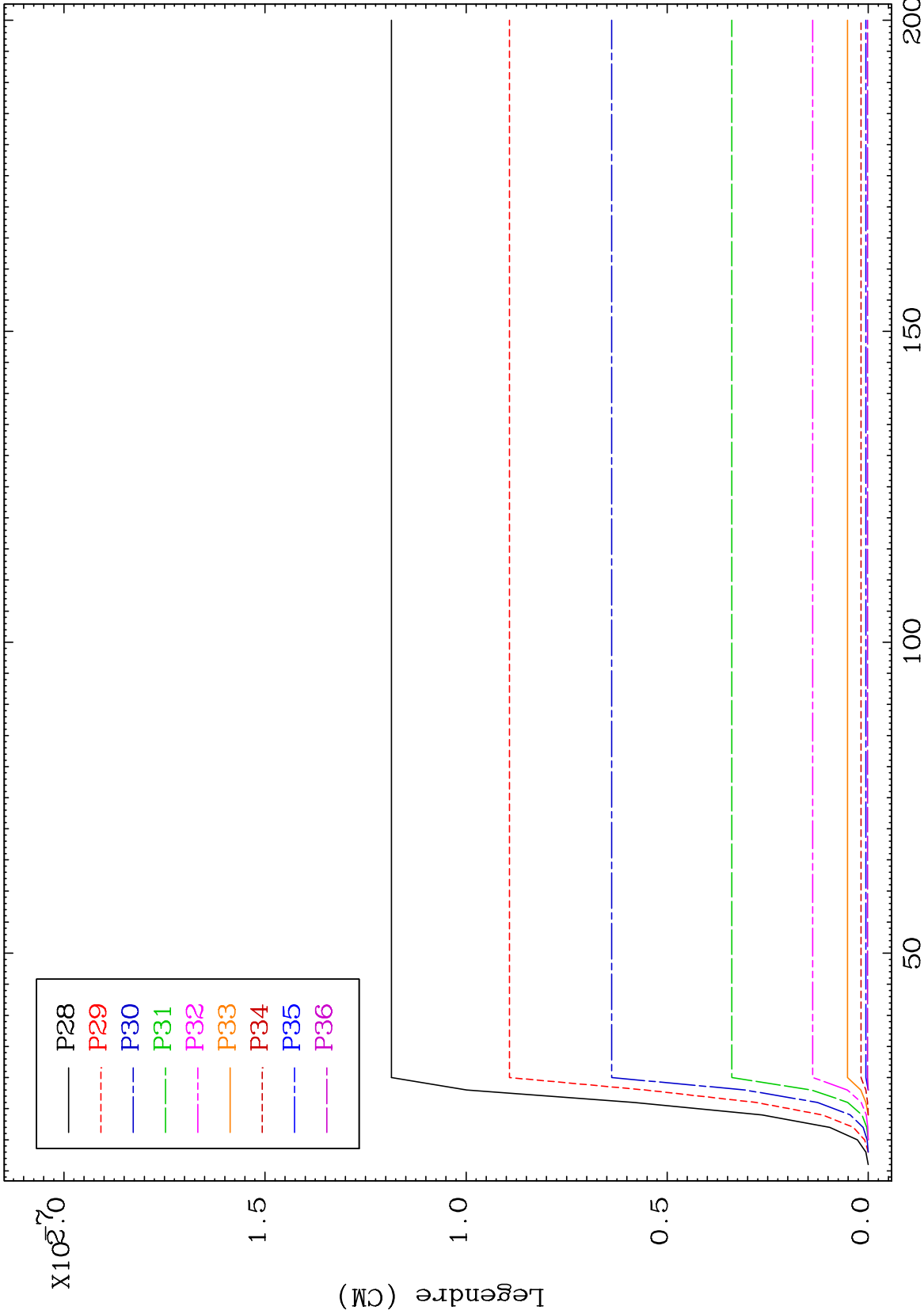
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



63

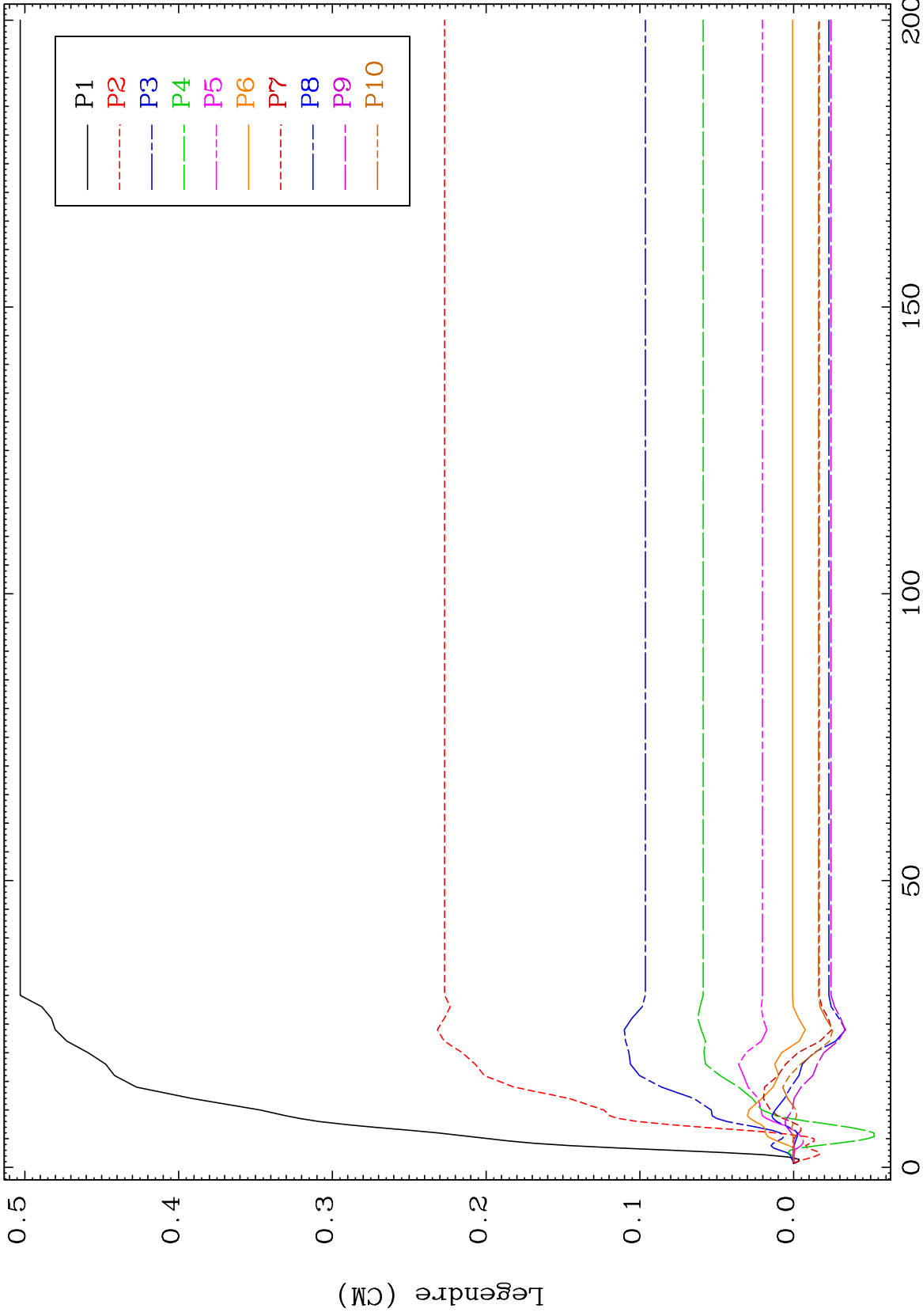
82-Pb-189



MAT 8180

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

82-Pb-189



64

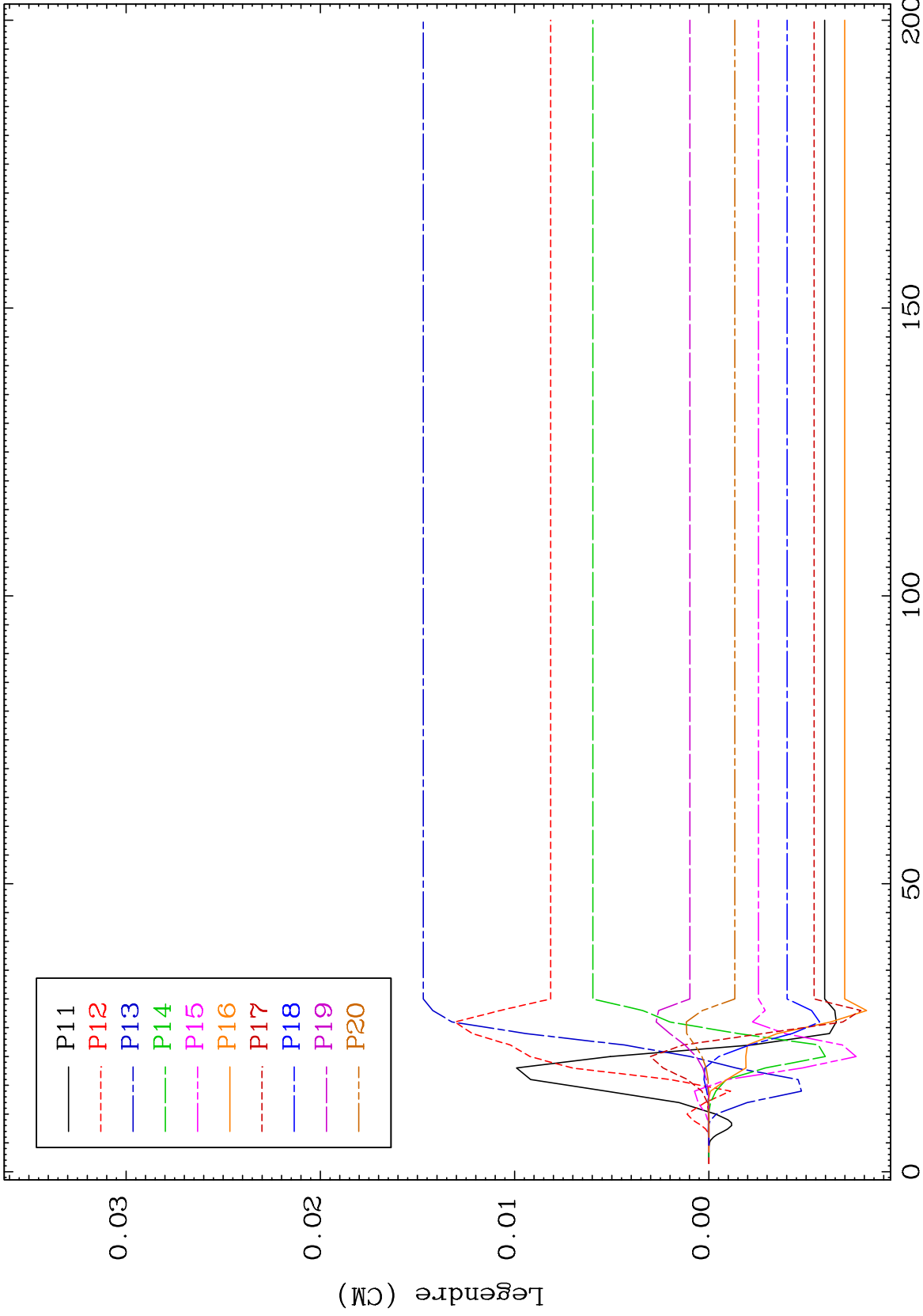
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

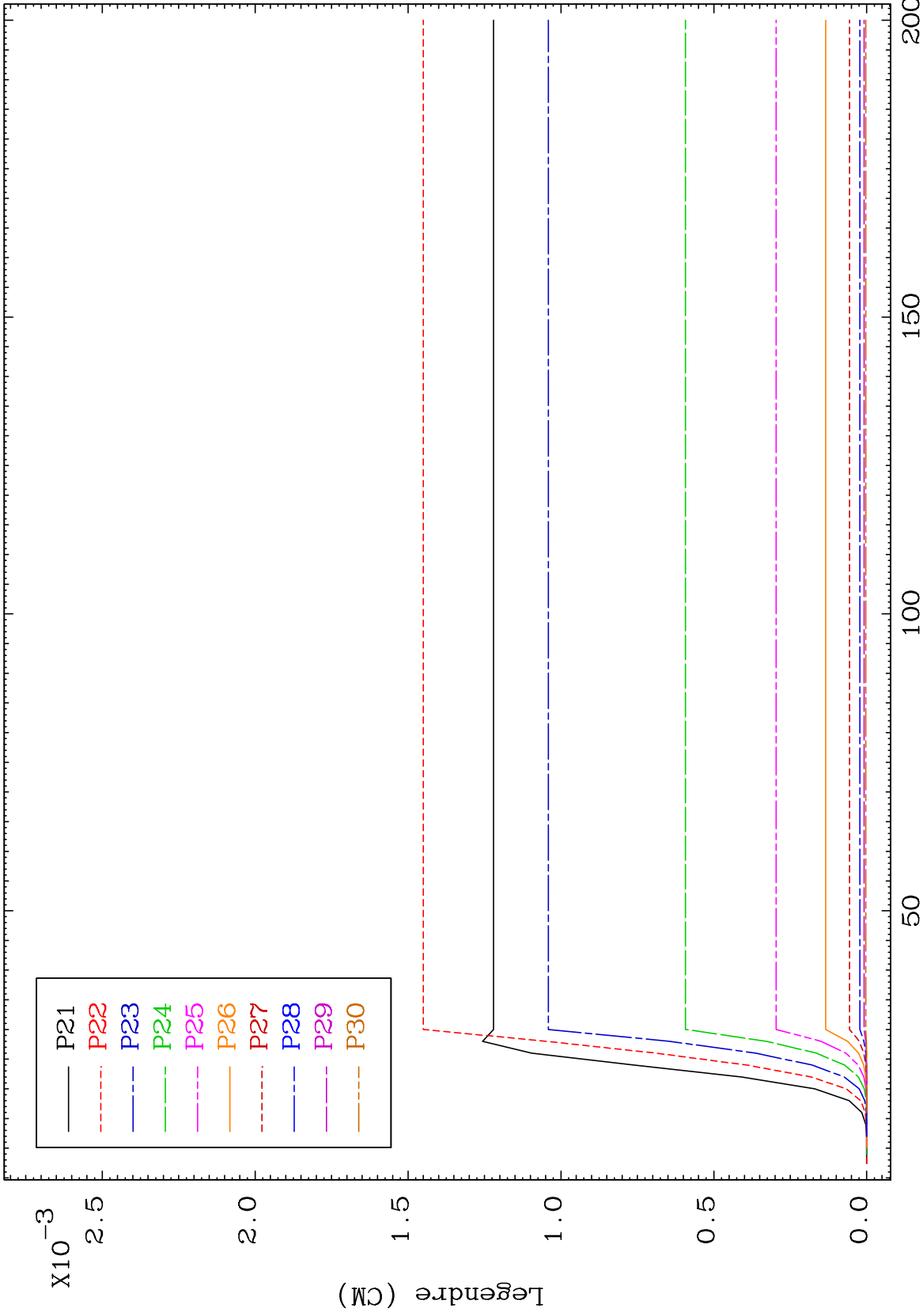
82-Pb-189



65

Incident Energy (MeV)

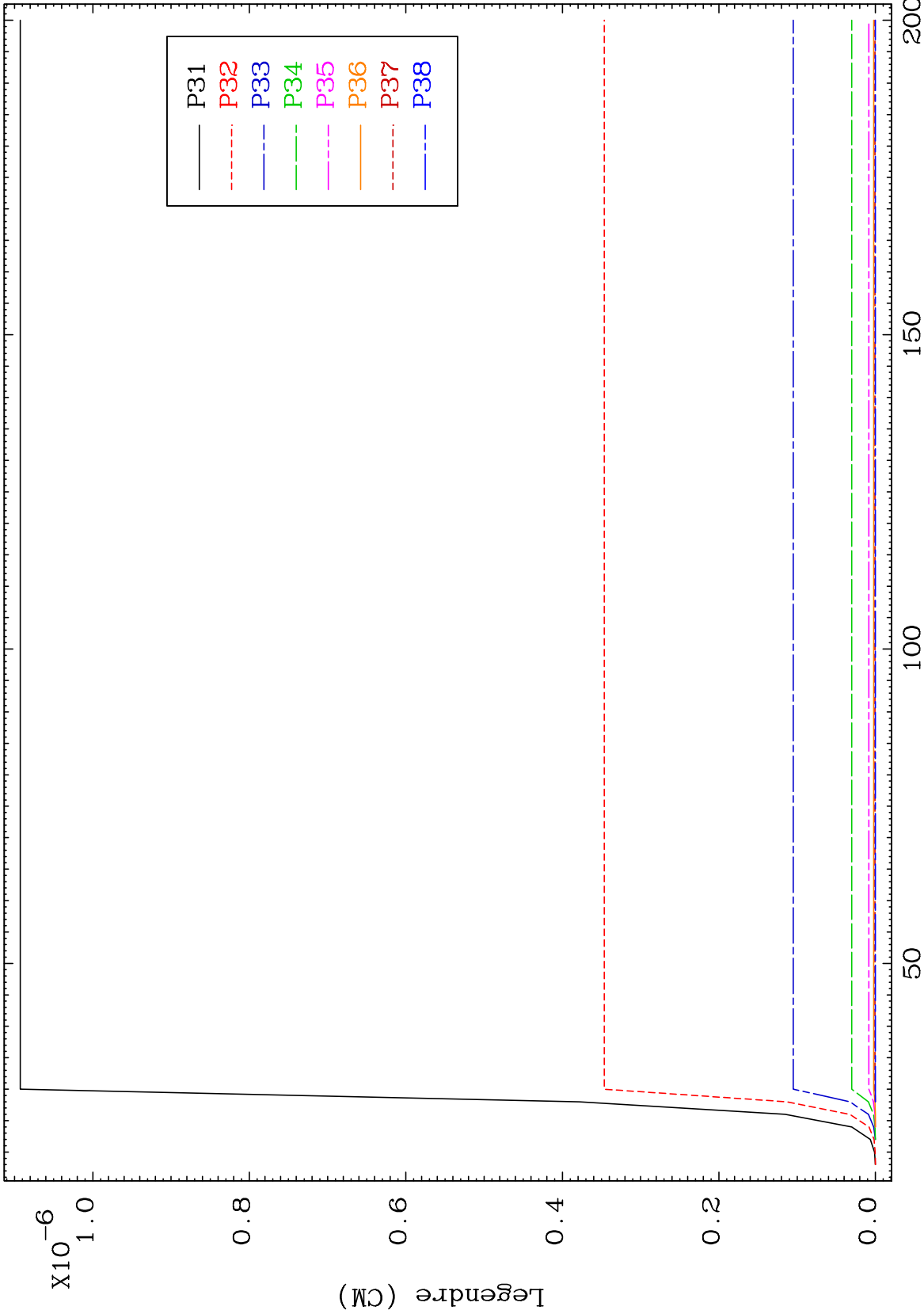
82-Pb-189



MAT 8180

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

82-Pb-189



67

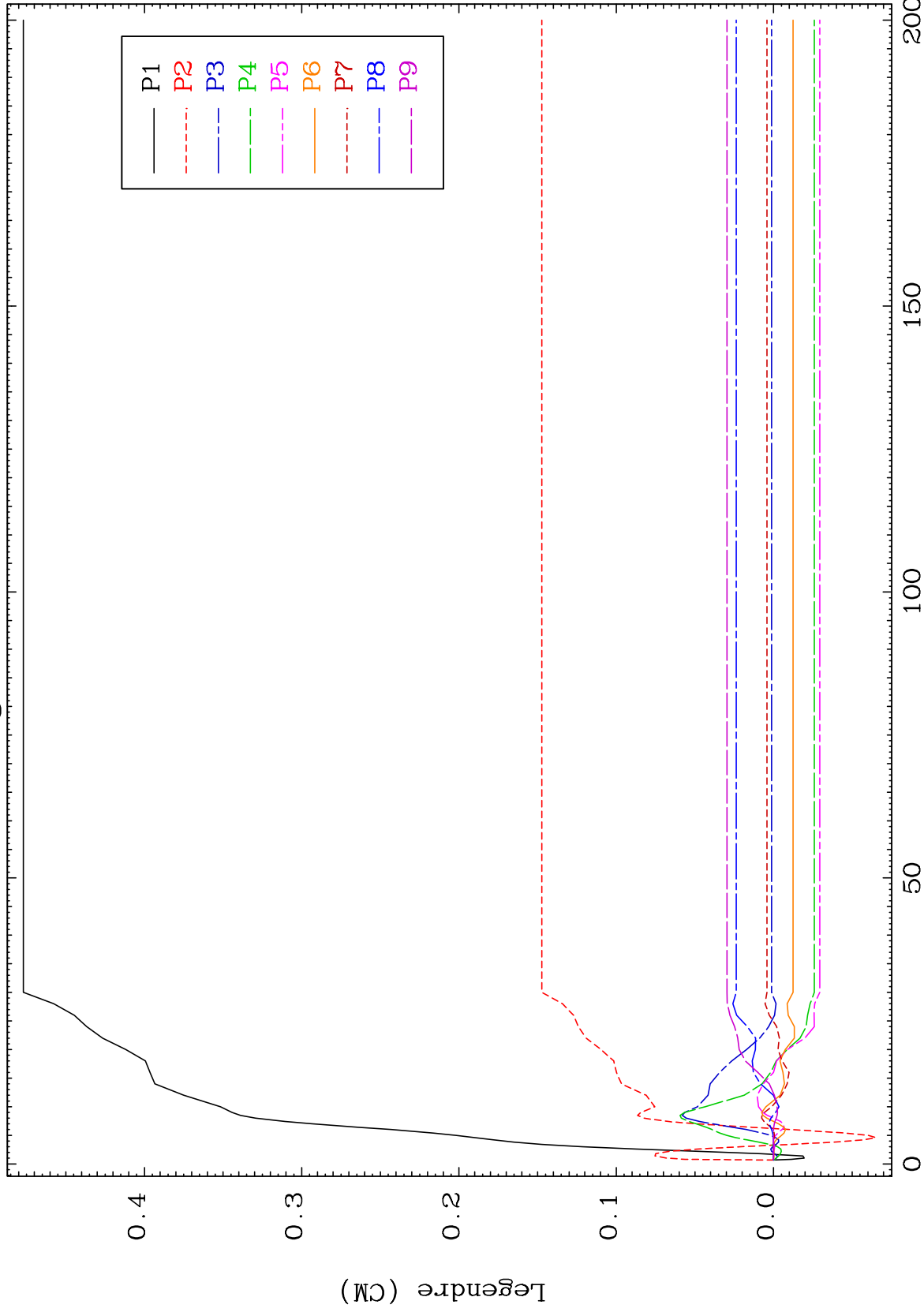
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



68

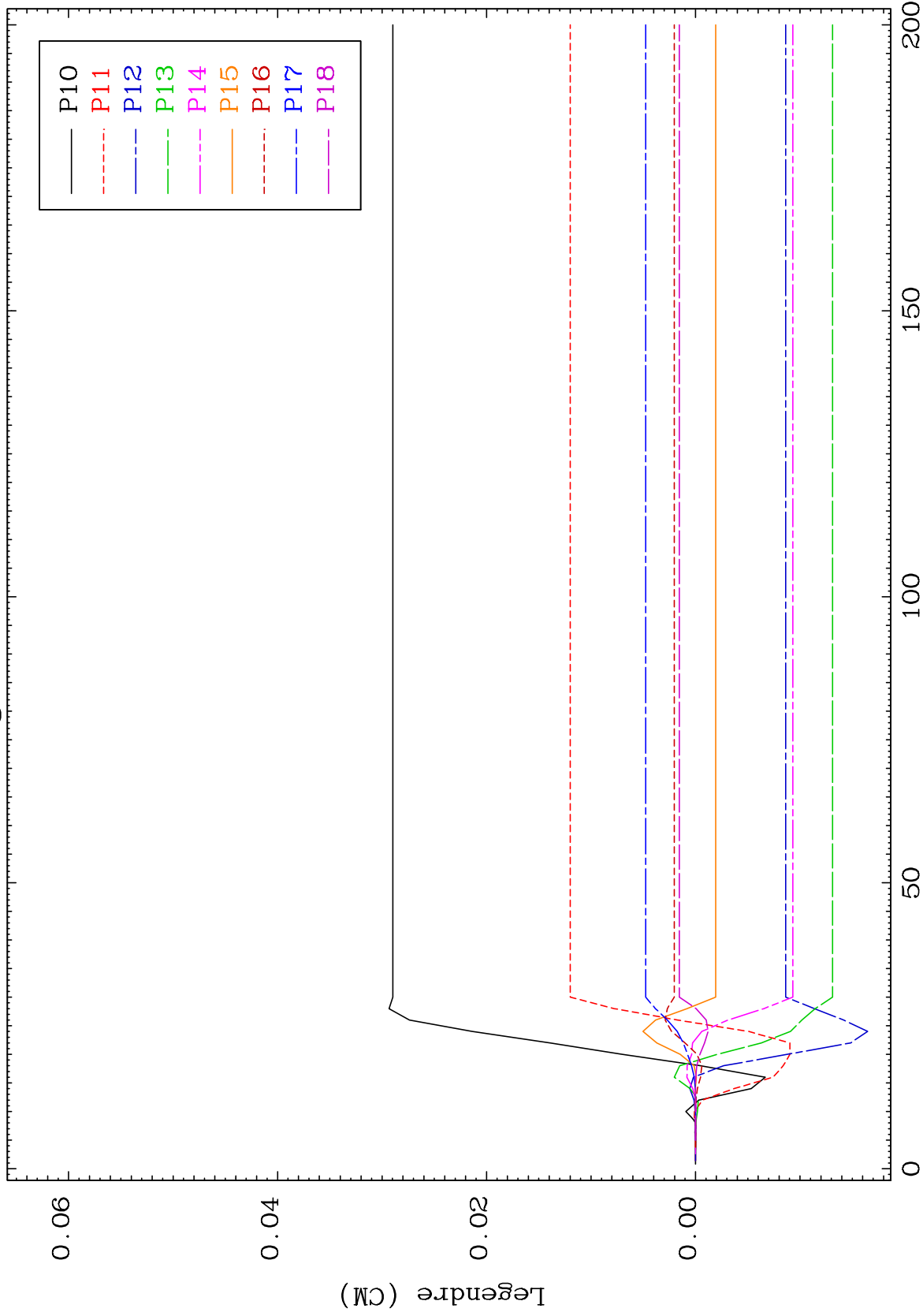
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



69

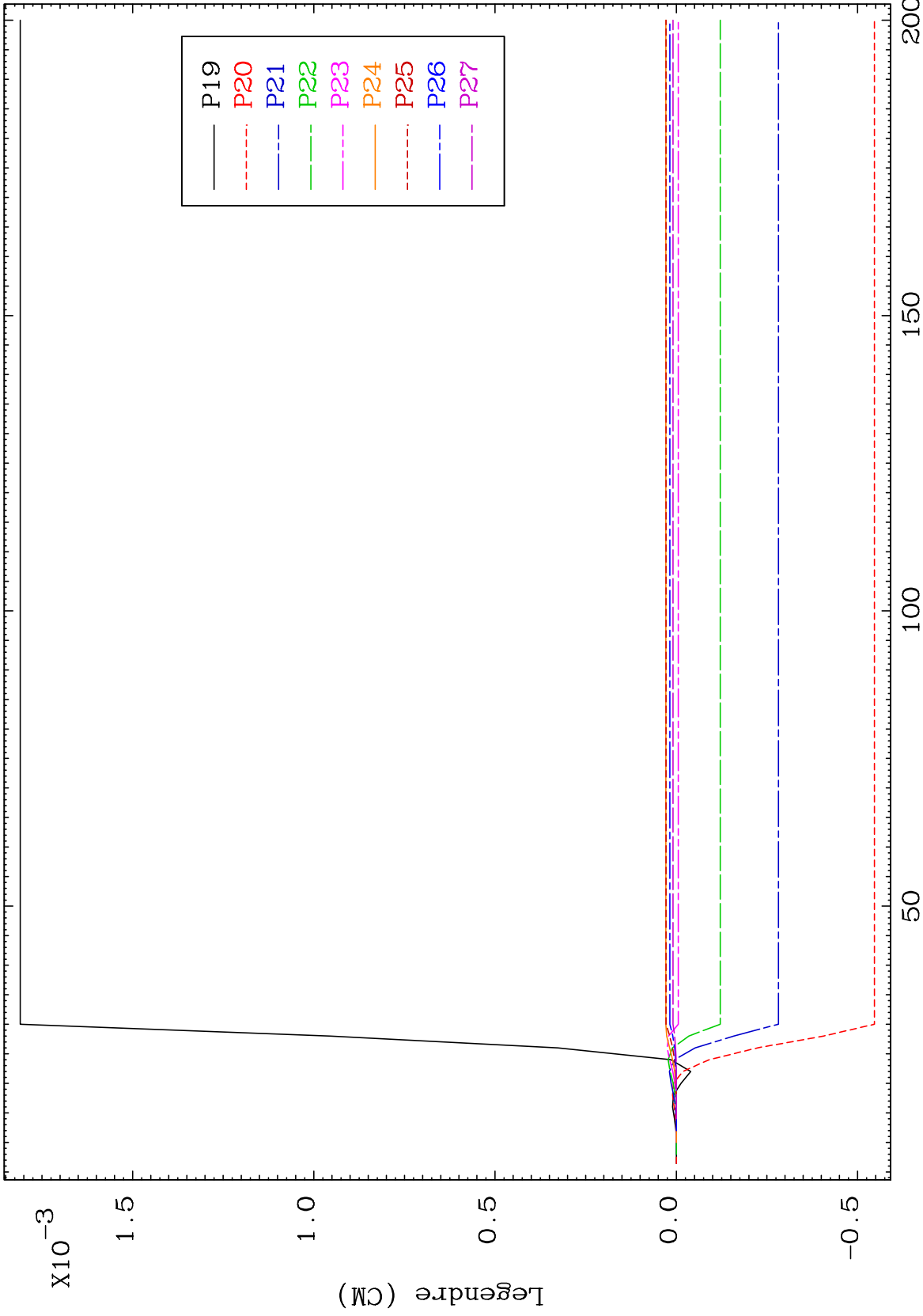
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



70

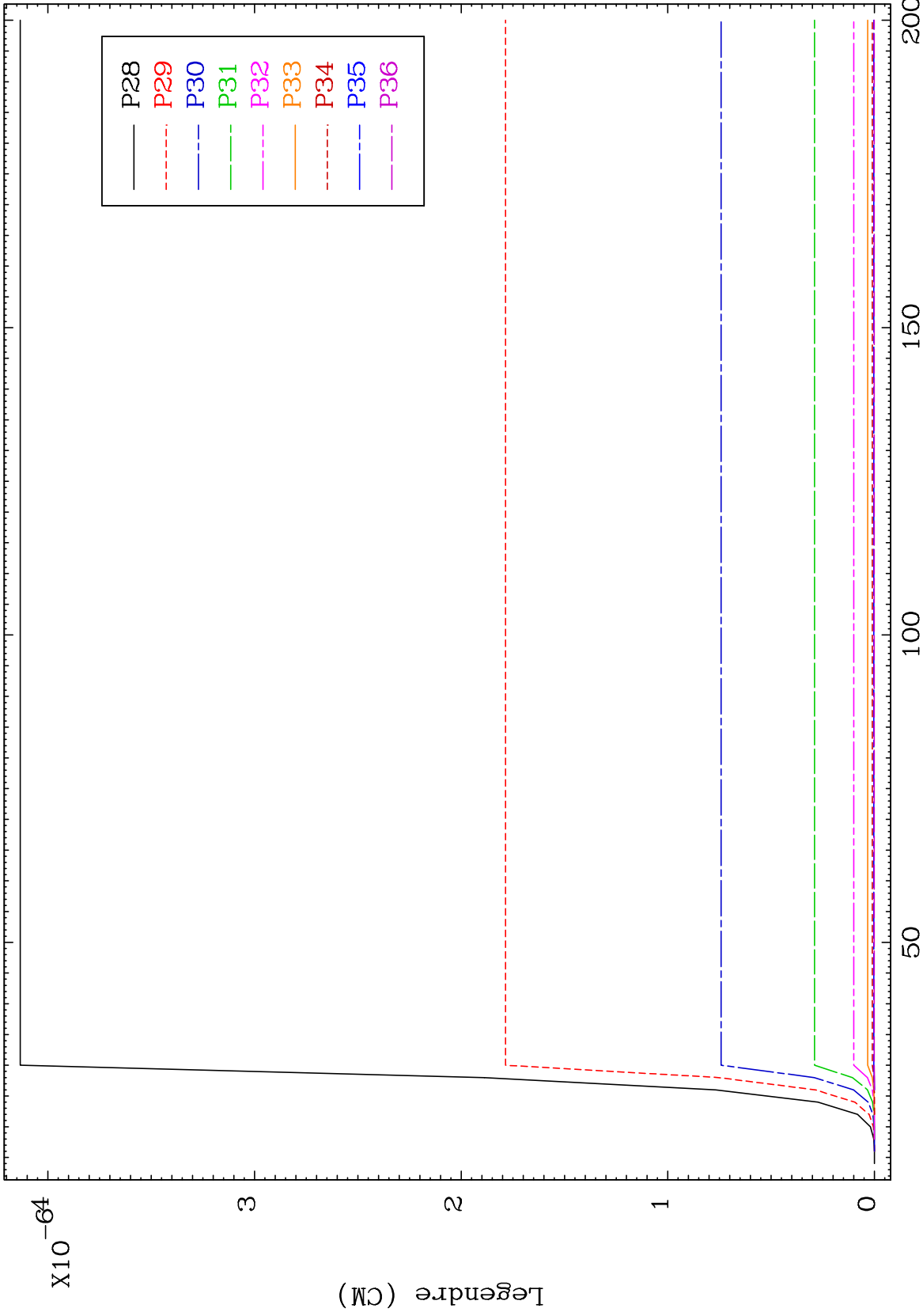
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



71

Incident Energy (MeV)

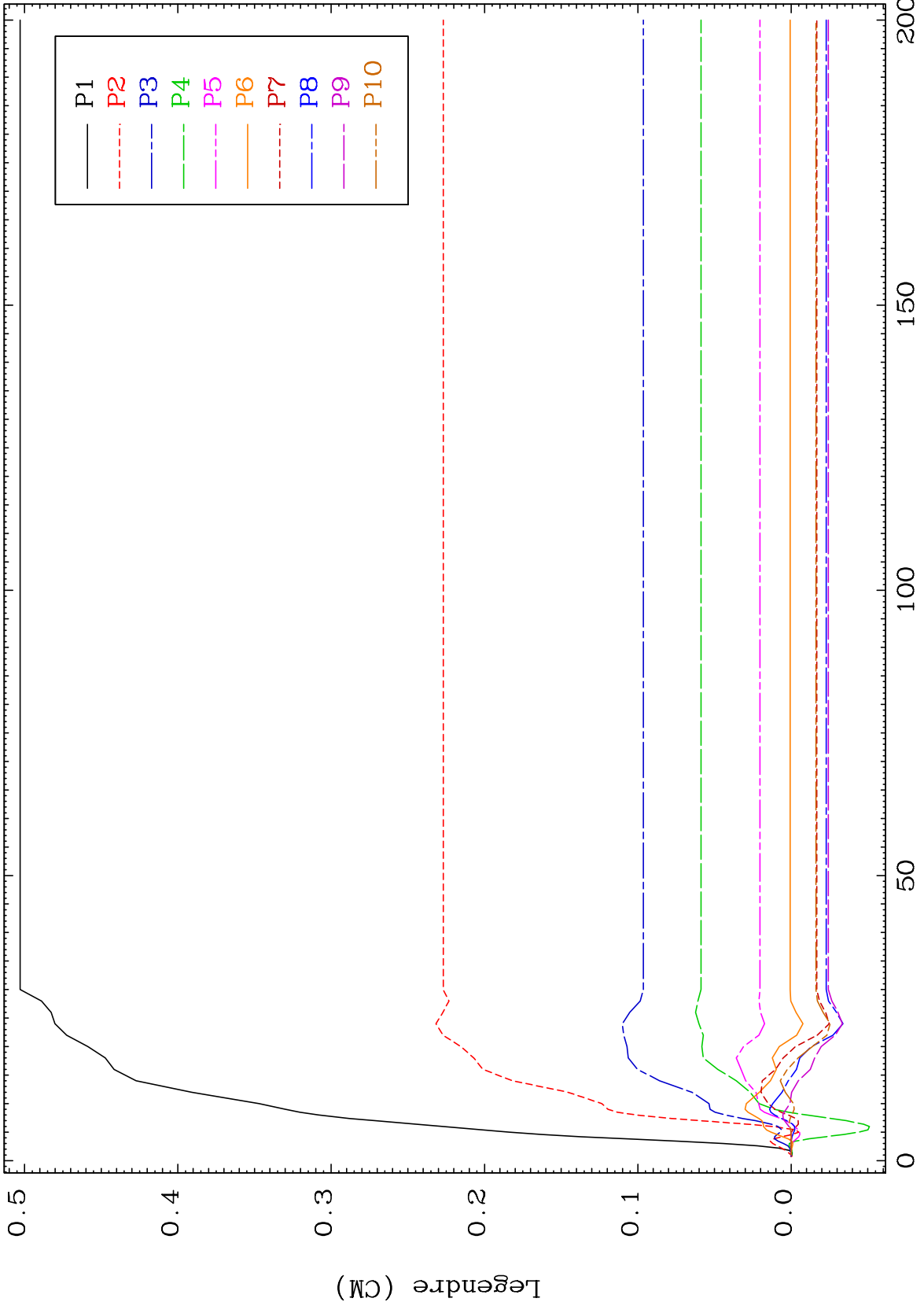
82-Pb-189



MAT 8180

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

82-Pb-189



72

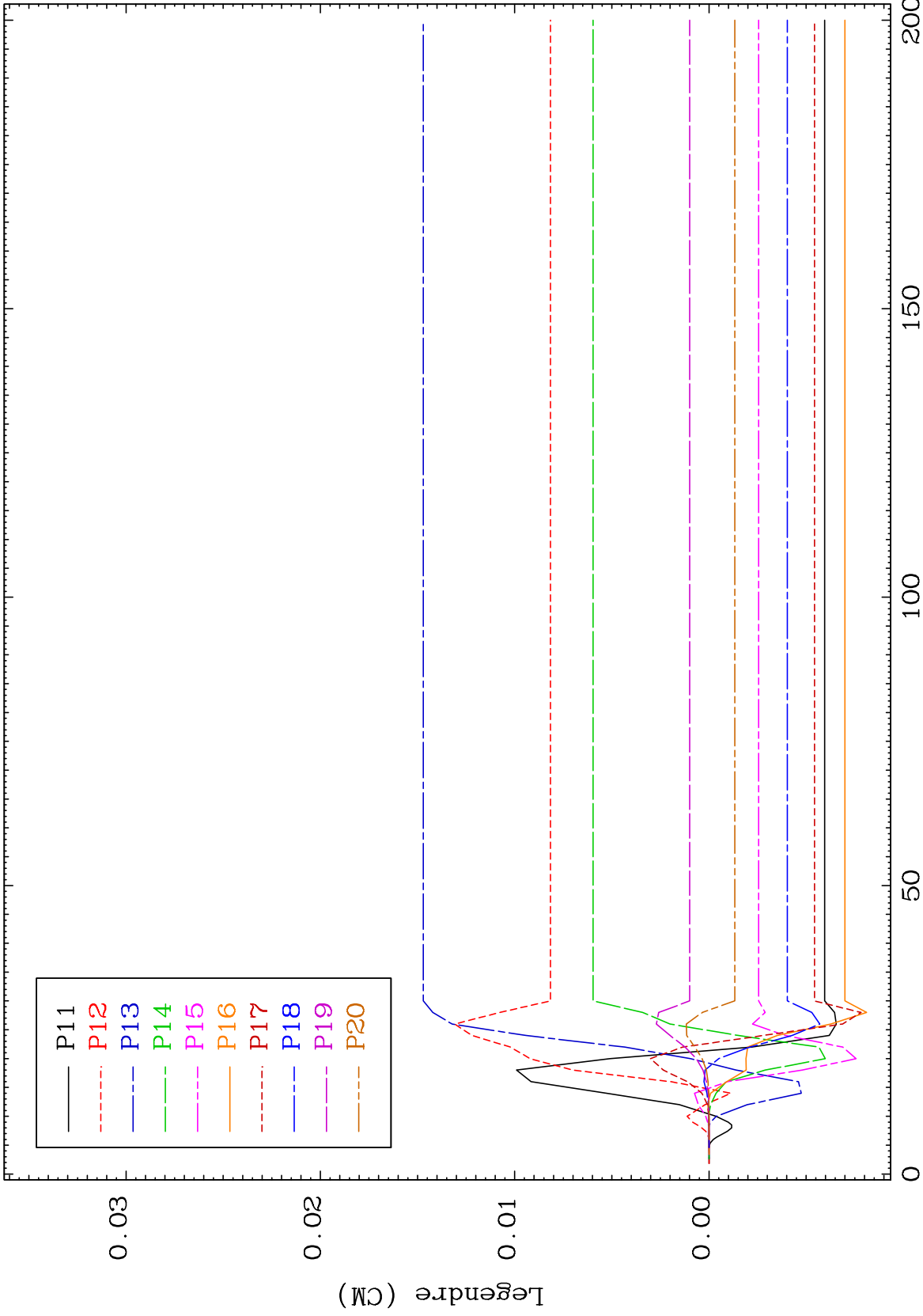
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

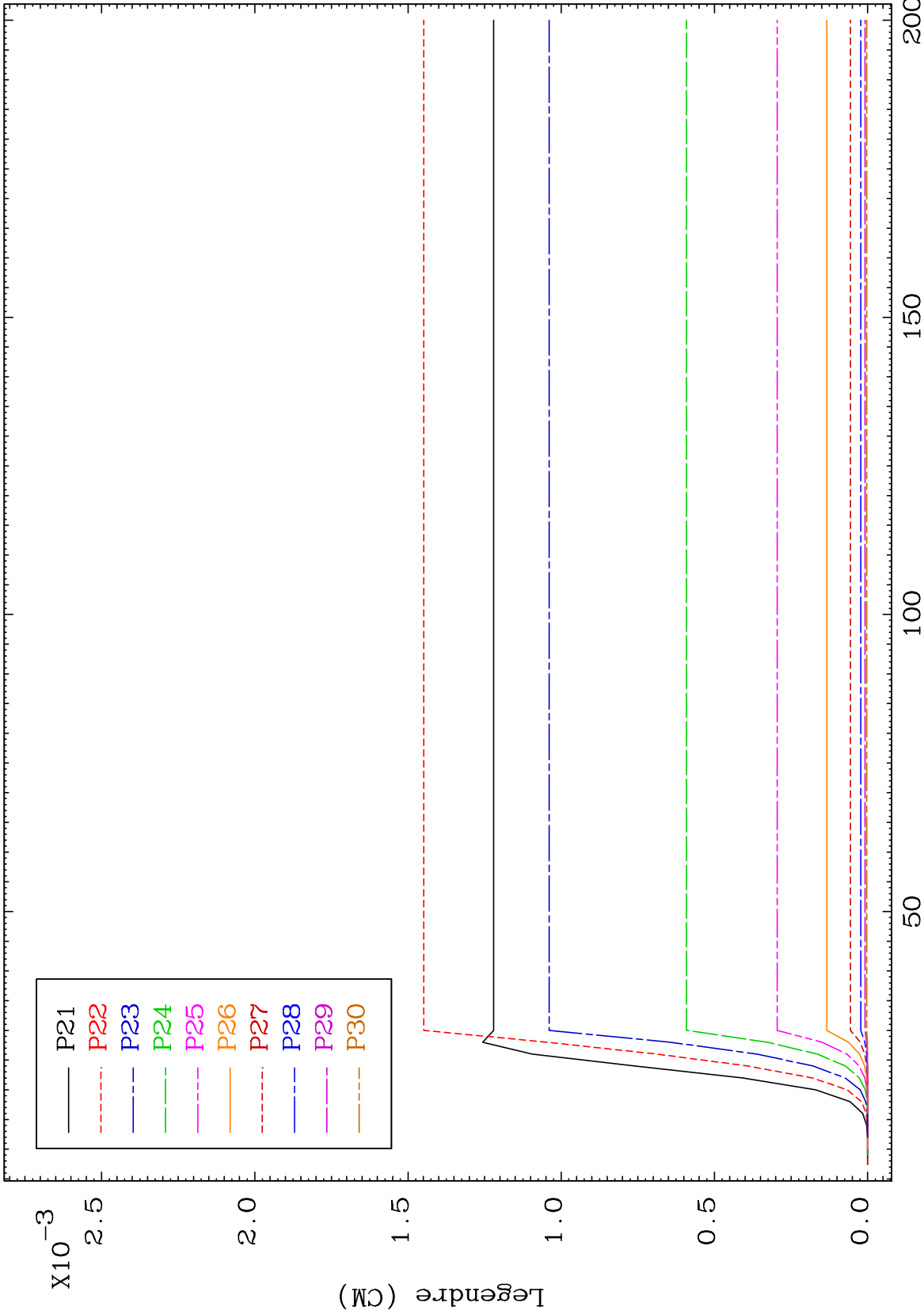
82-Pb-189



73

Incident Energy (MeV)

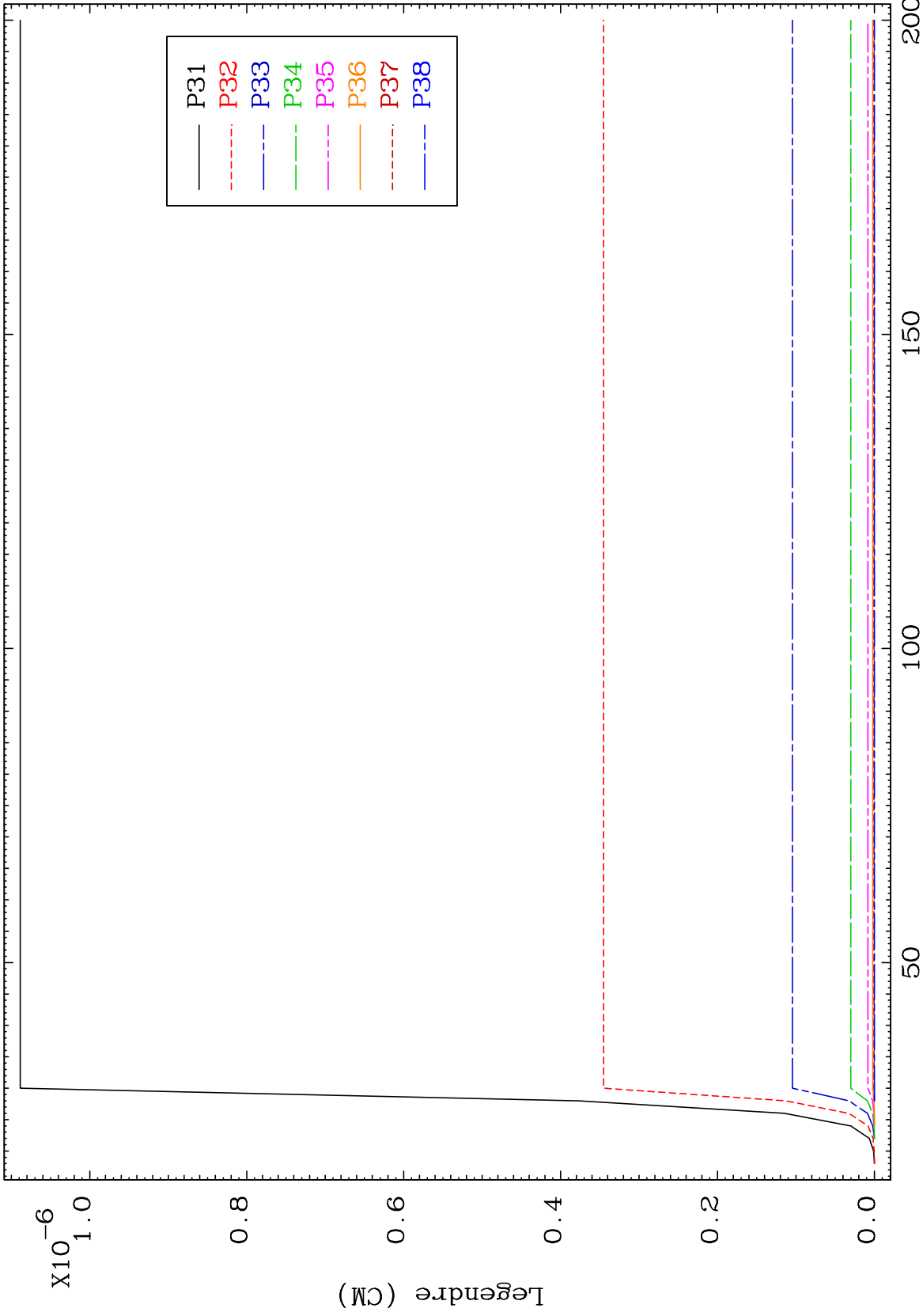
82-Pb-189



MAT 8180

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

82-Pb-189



75

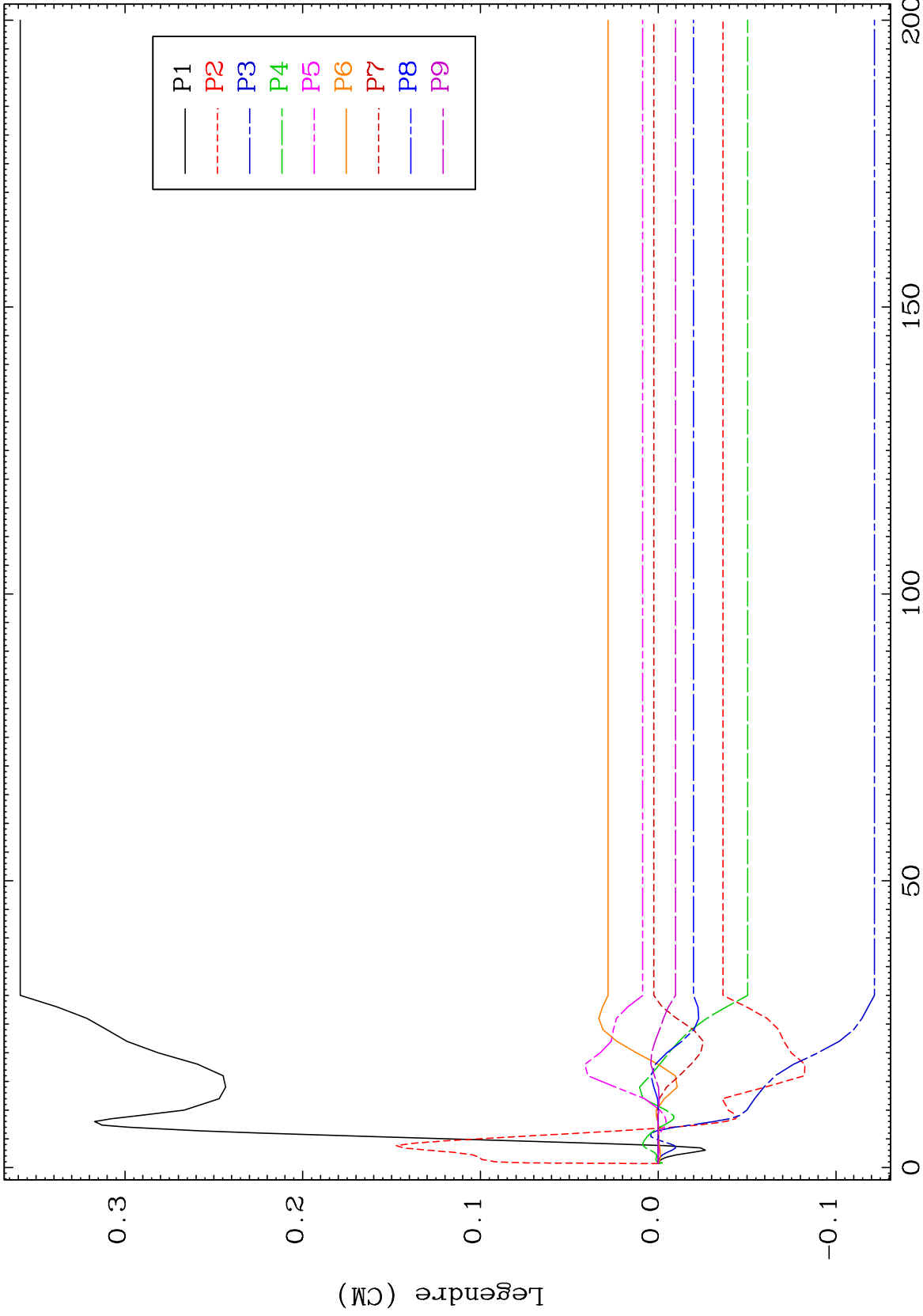
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



76

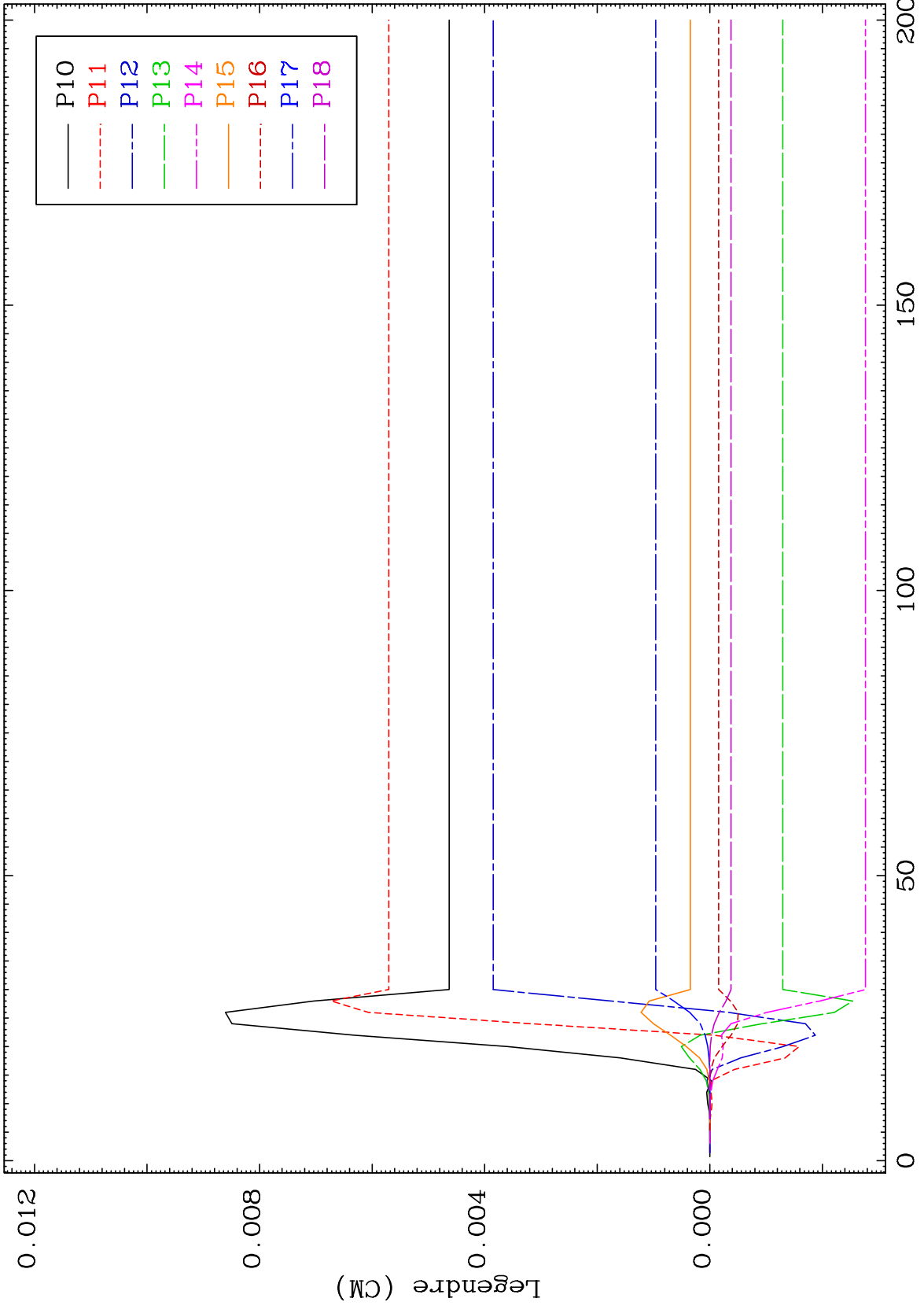
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



77

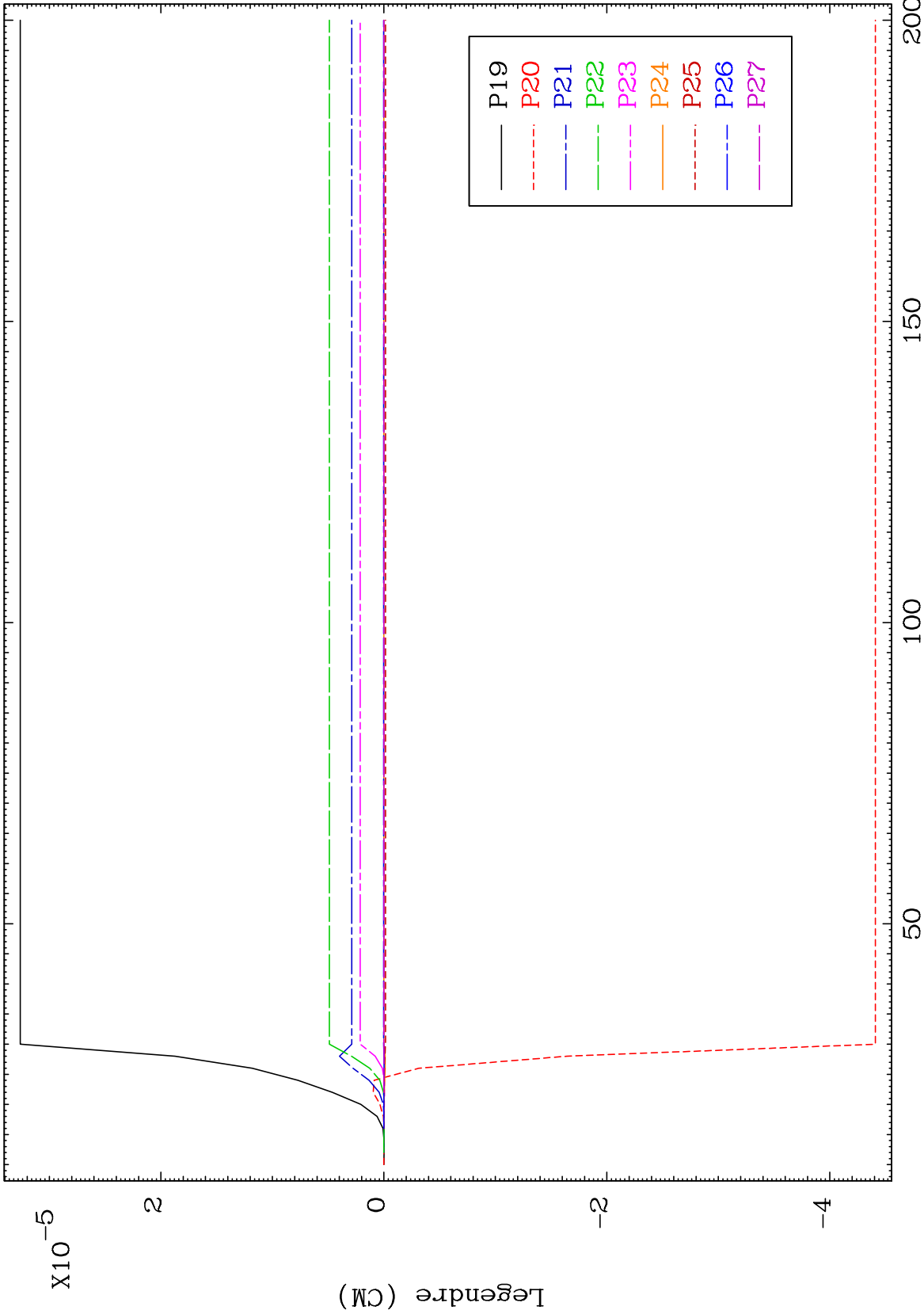
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



78

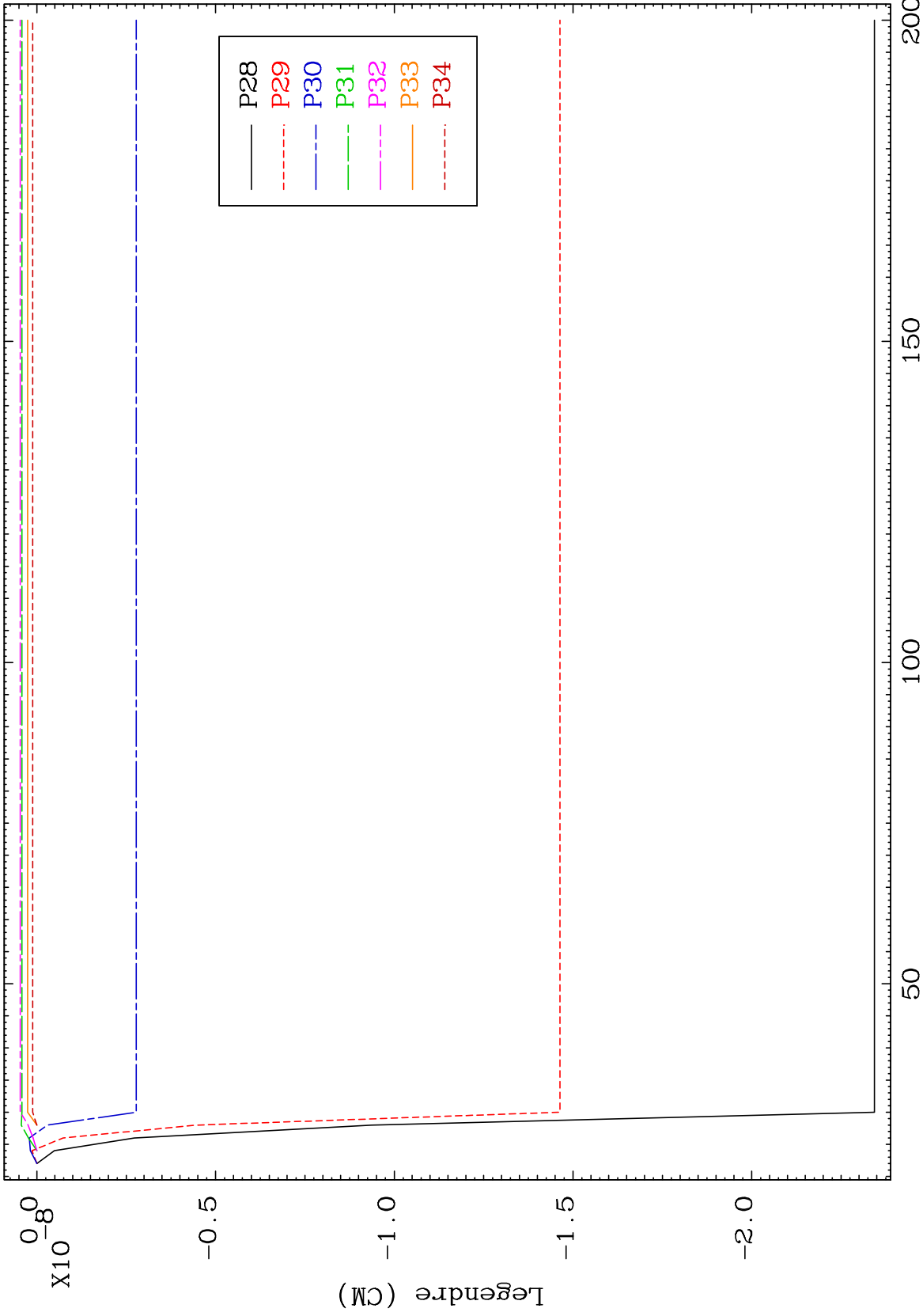
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



82-Pb-189

Incident Energy (MeV)

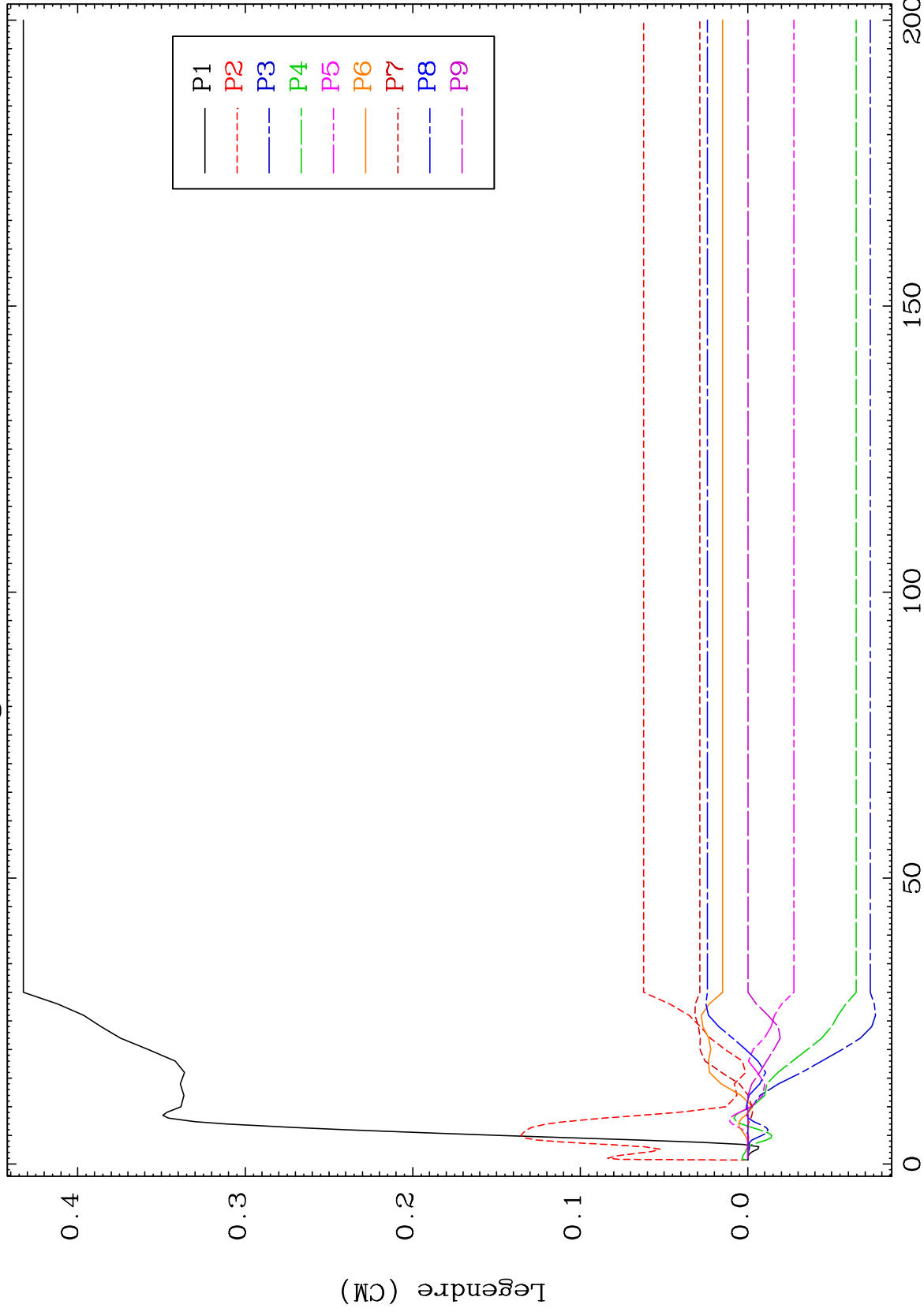
79



MAT 8180

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

82-Pb-189



80

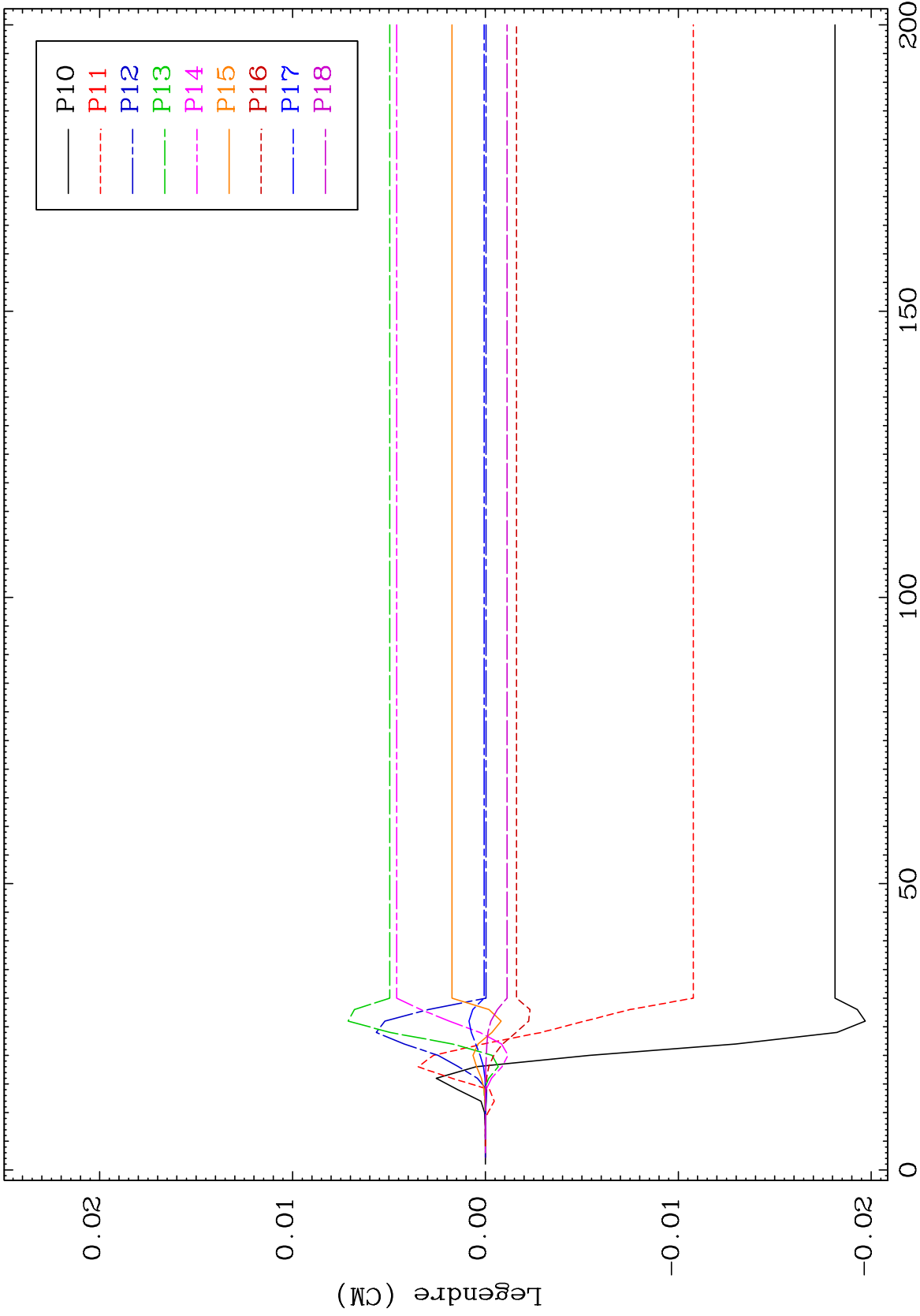
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



81

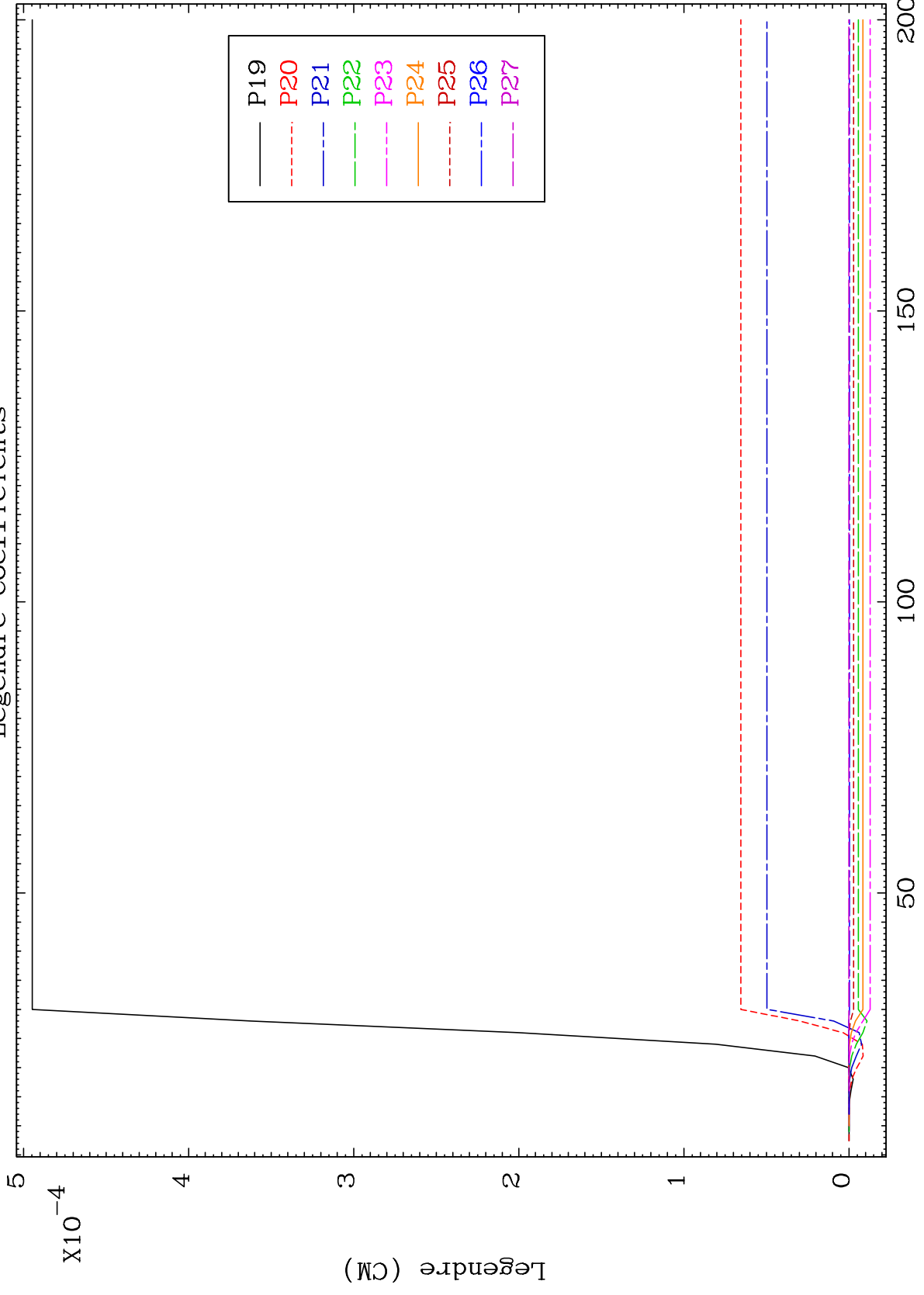
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

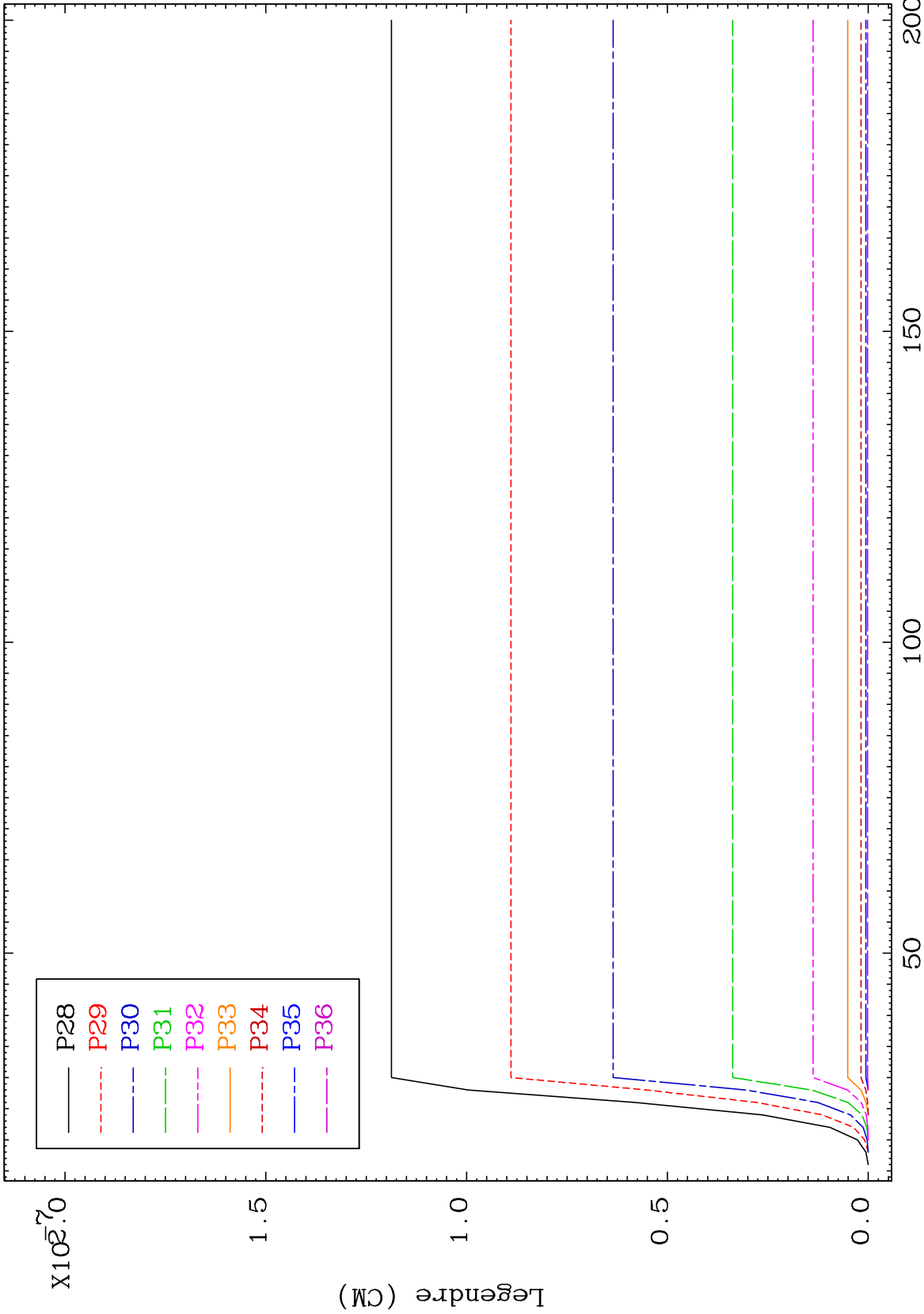
82-Pb-189



82

Incident Energy (MeV)

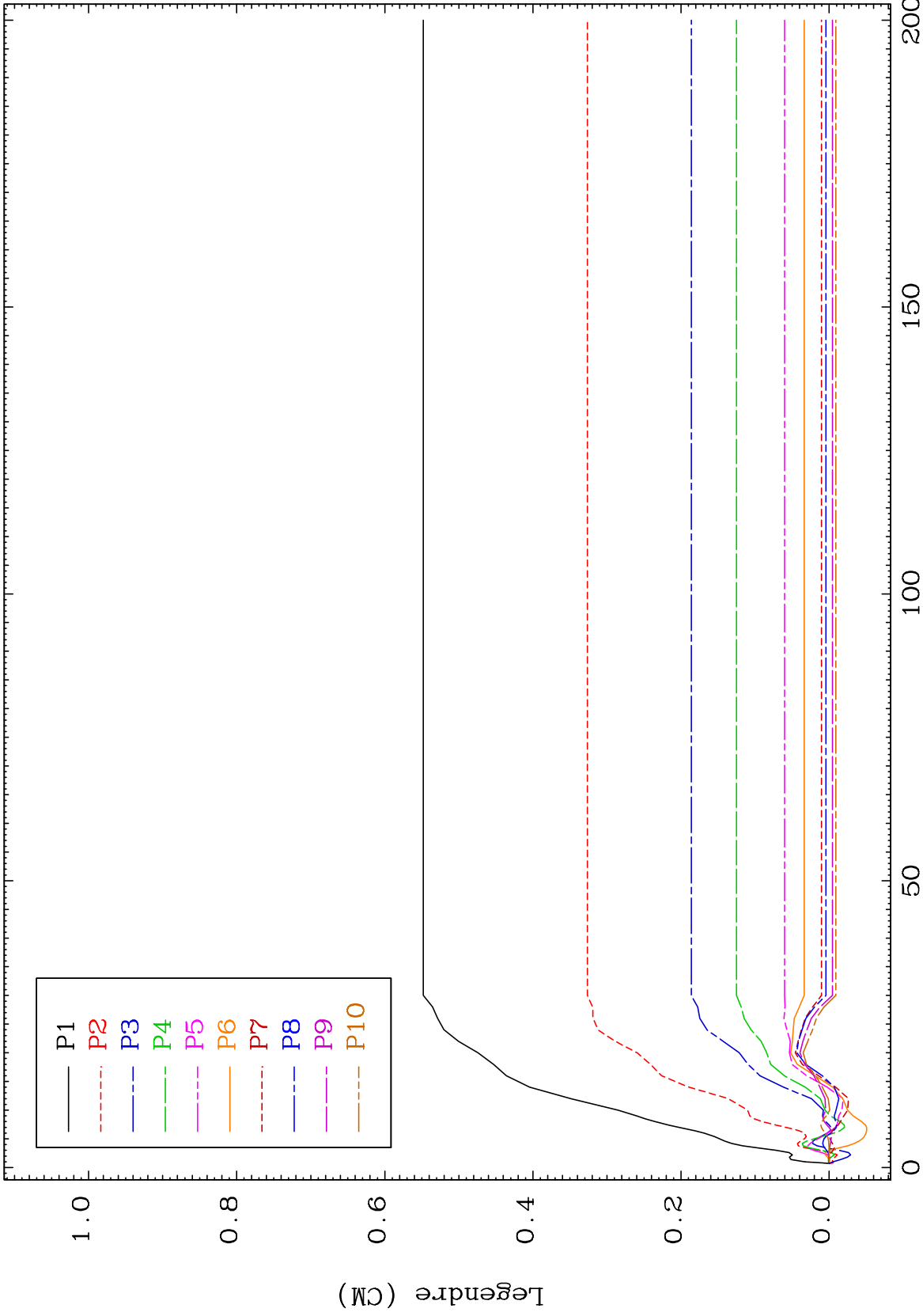
82-Pb-189



MAT 8180

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

82-Pb-189



84

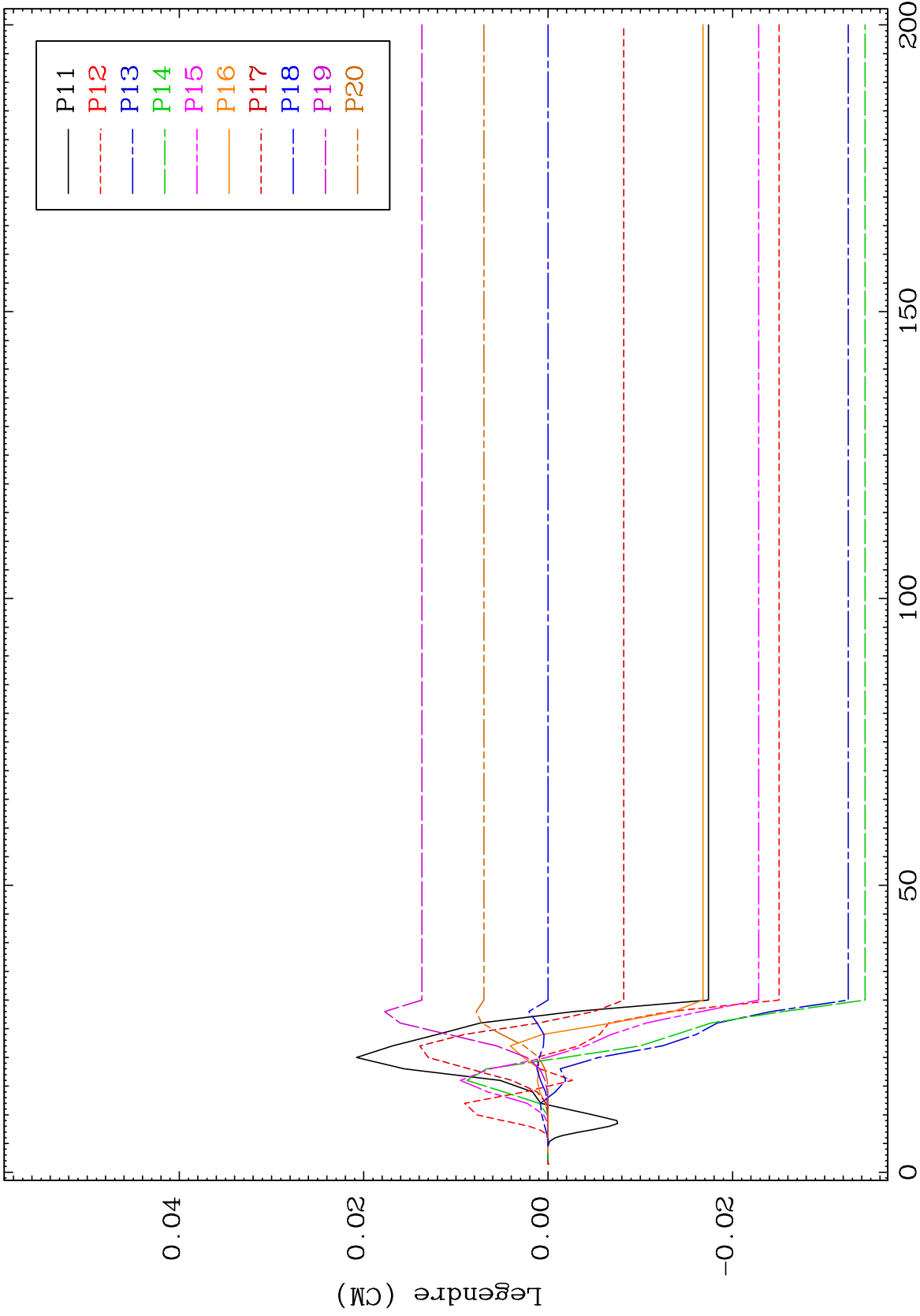
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



85

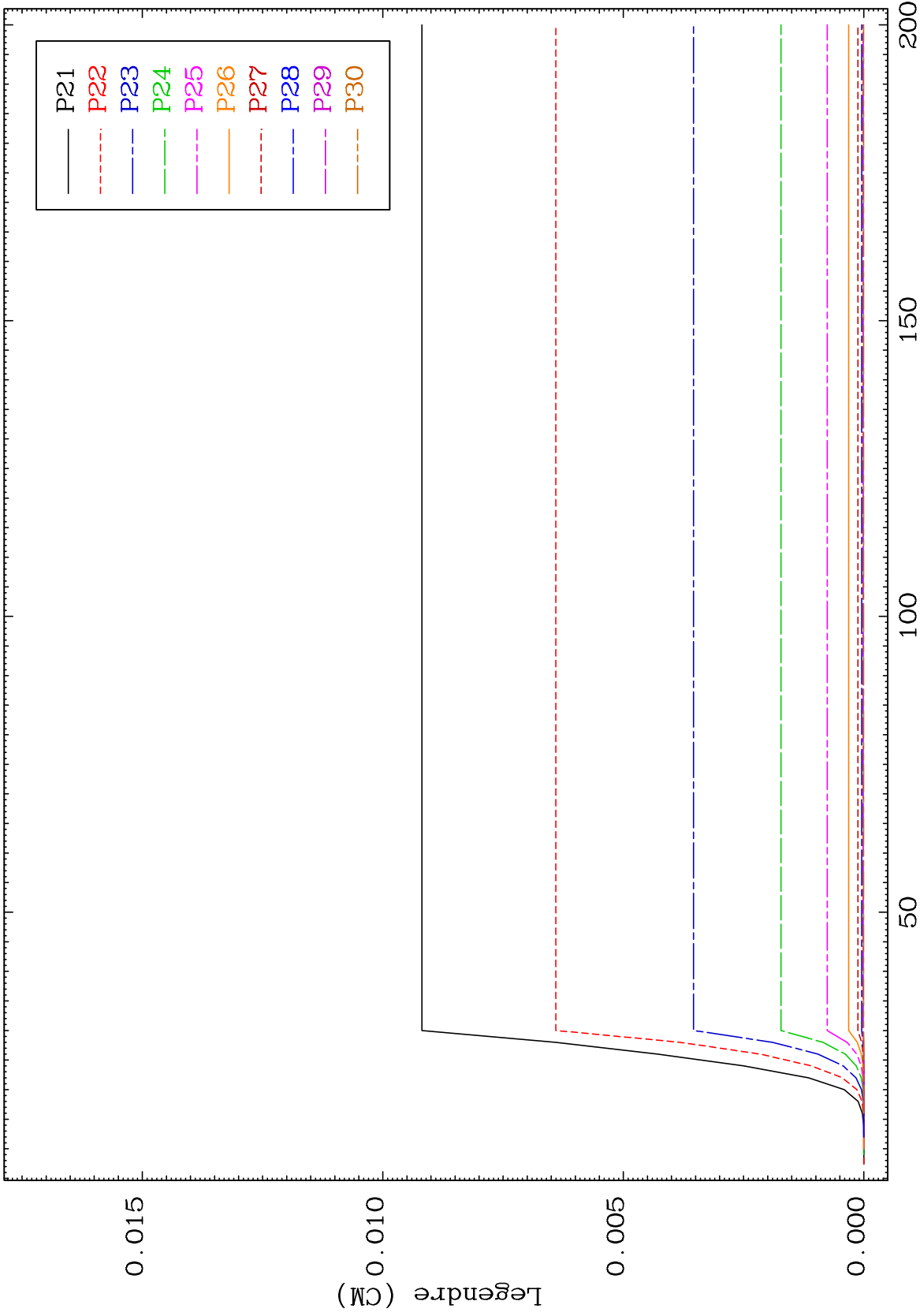
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



86

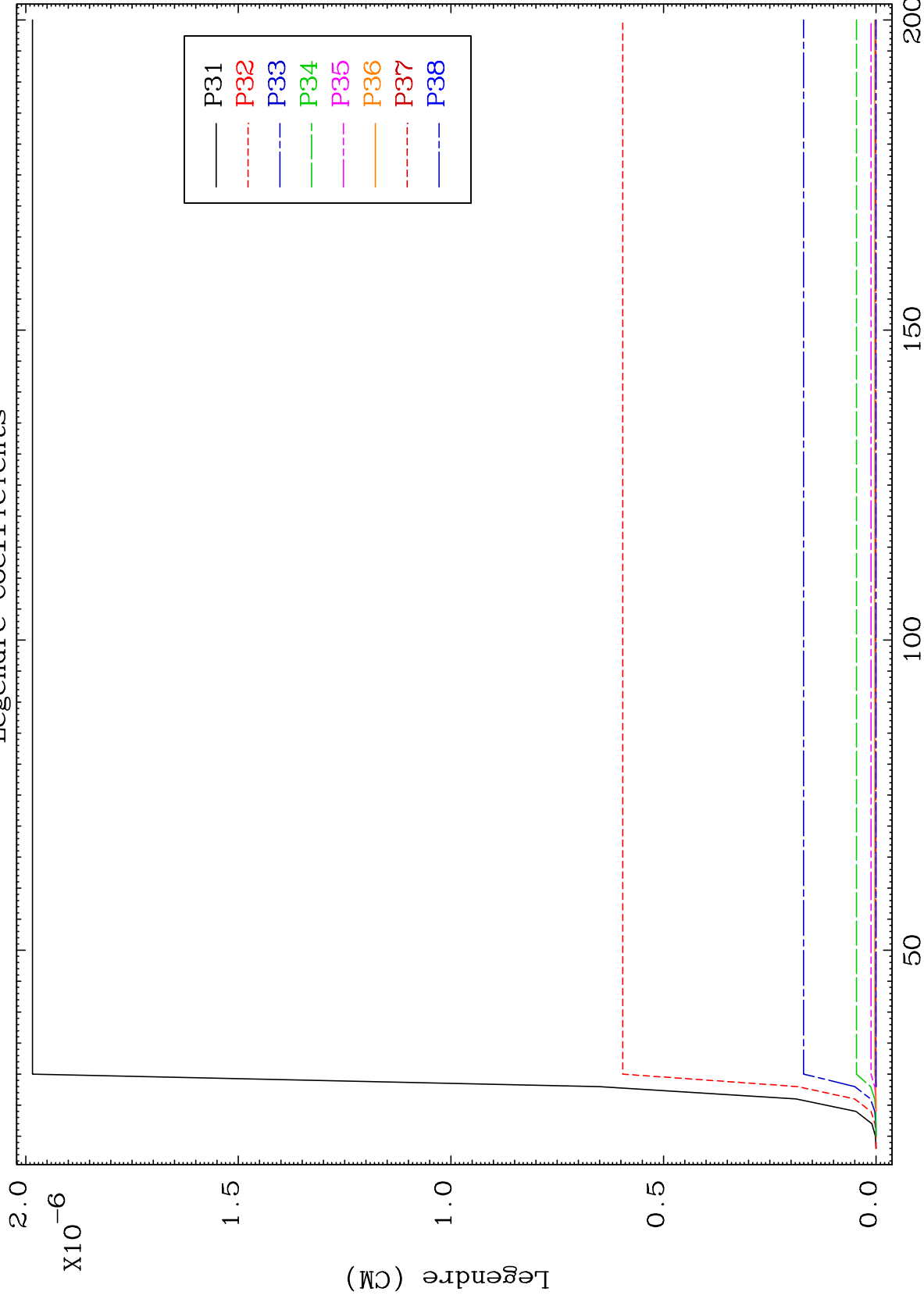
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



87

Incident Energy (MeV)

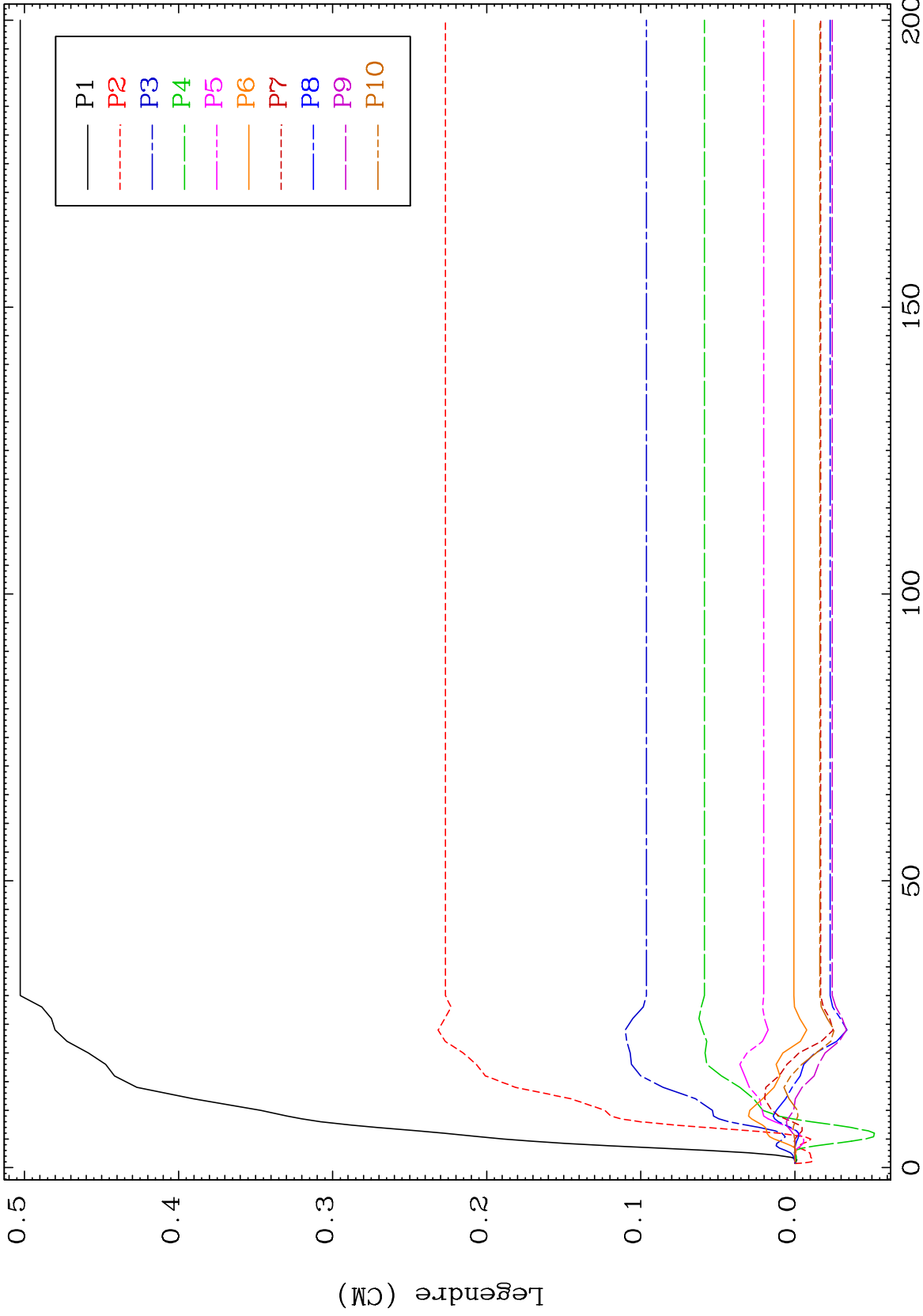
82-Pb-189



MAT 8180

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

82-Pb-189



88

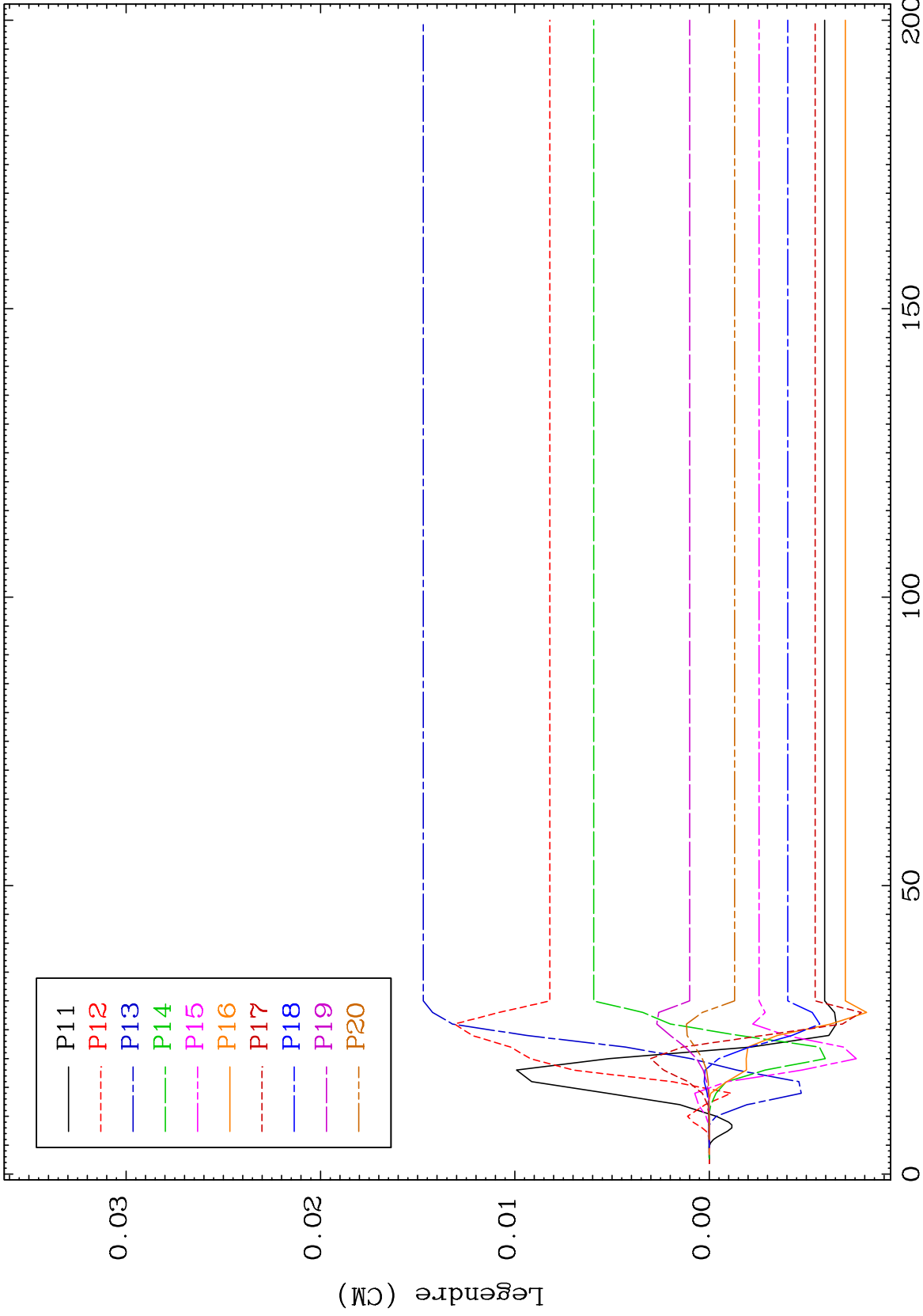
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



89

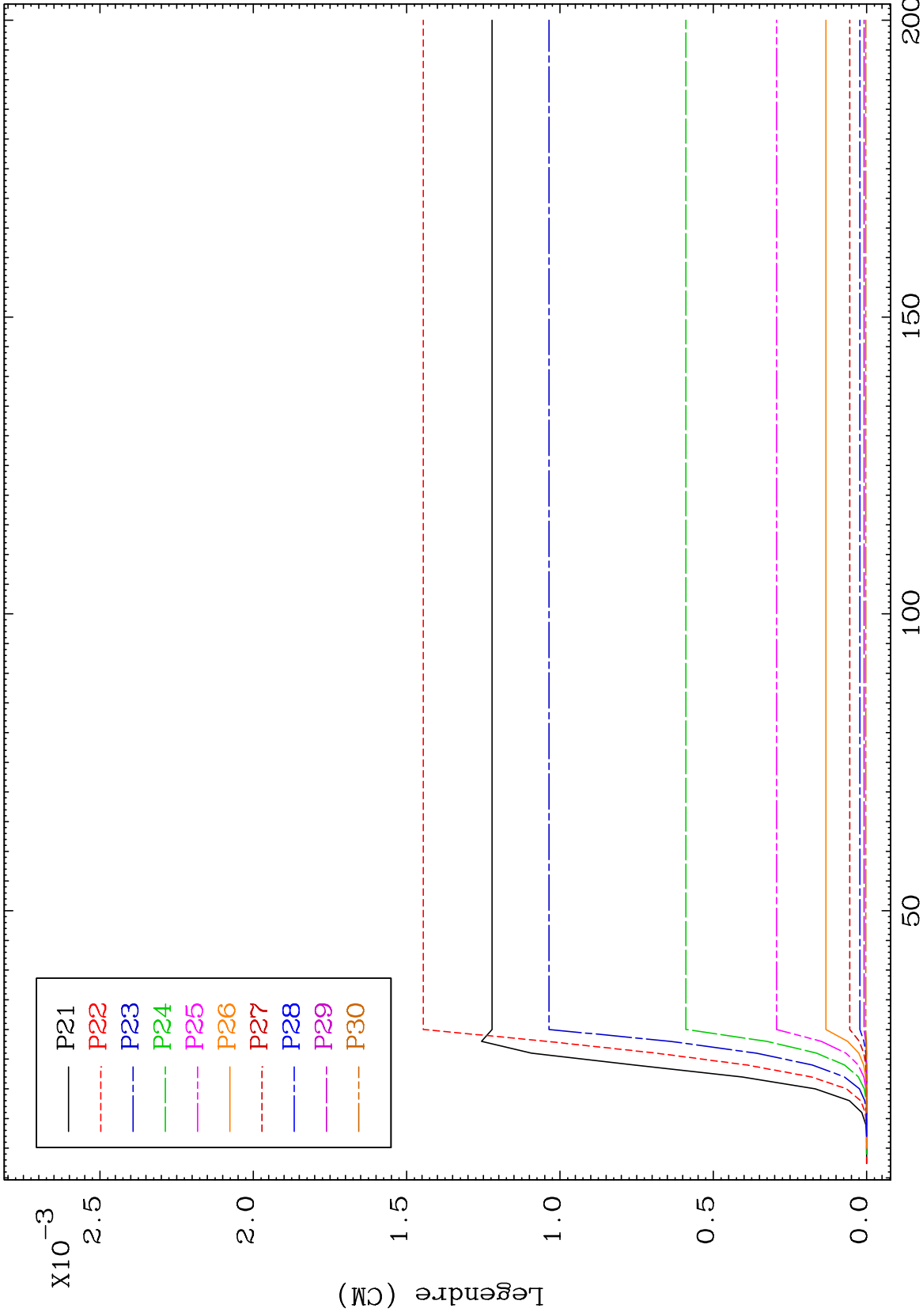
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



90

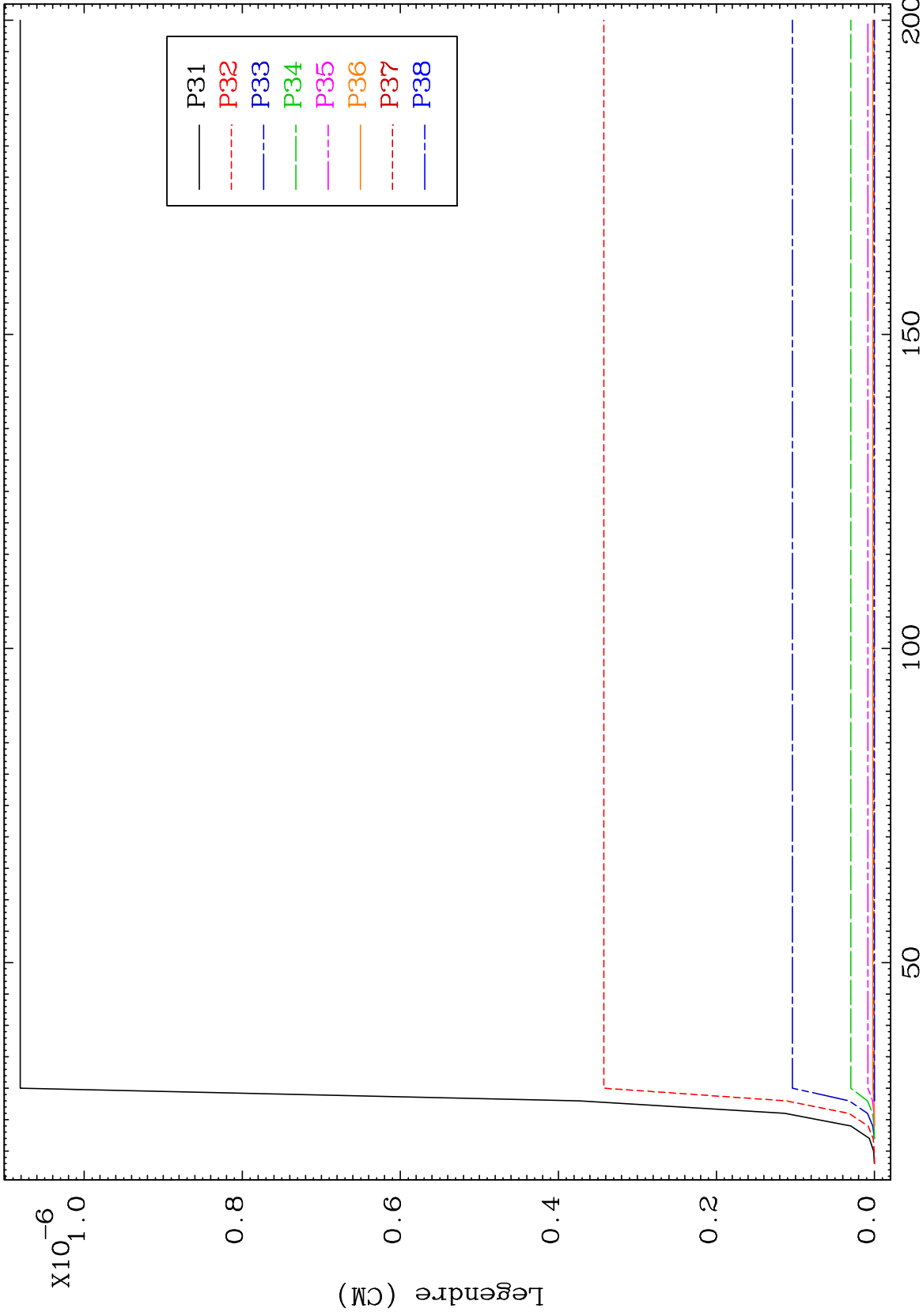
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



91

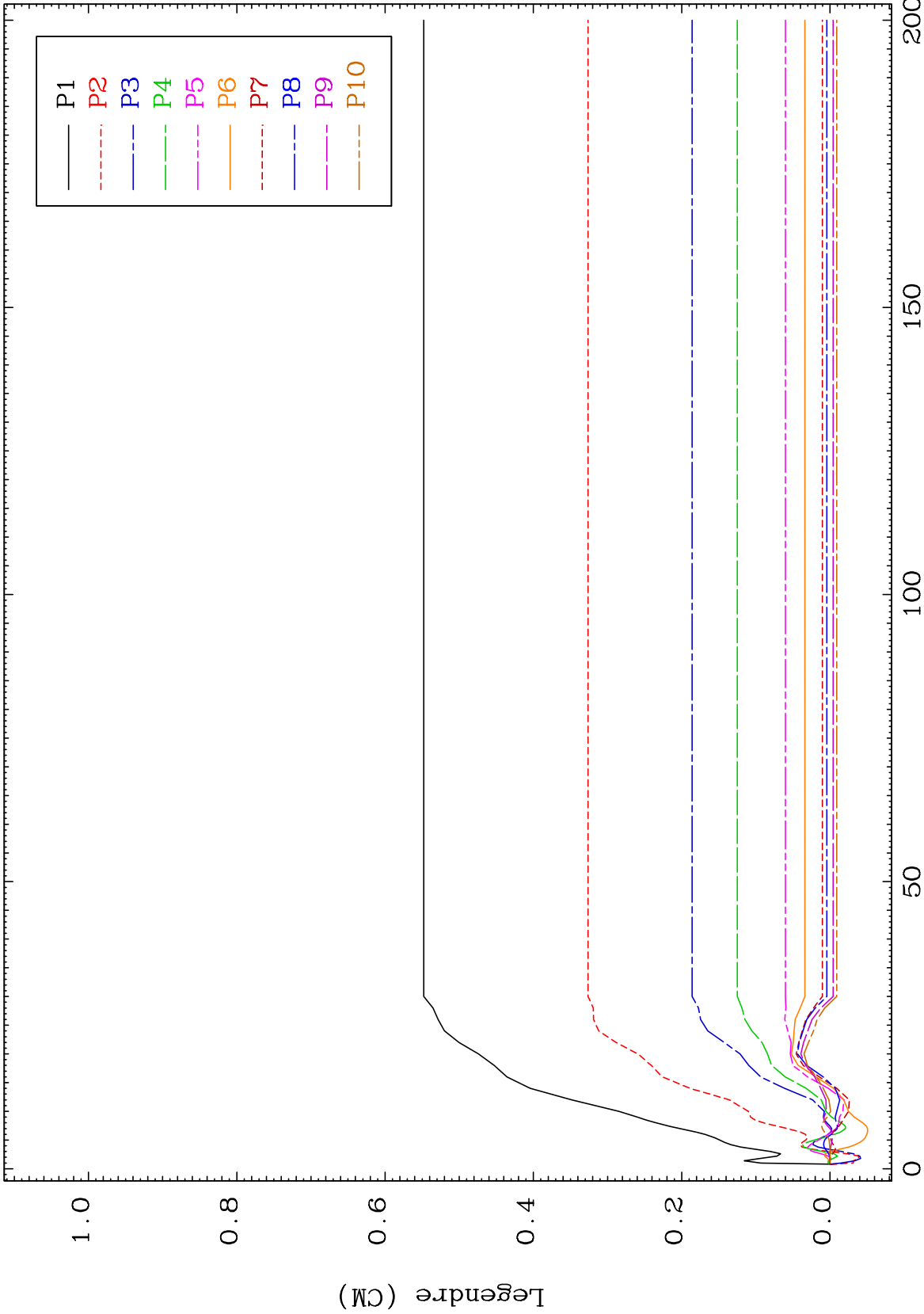
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



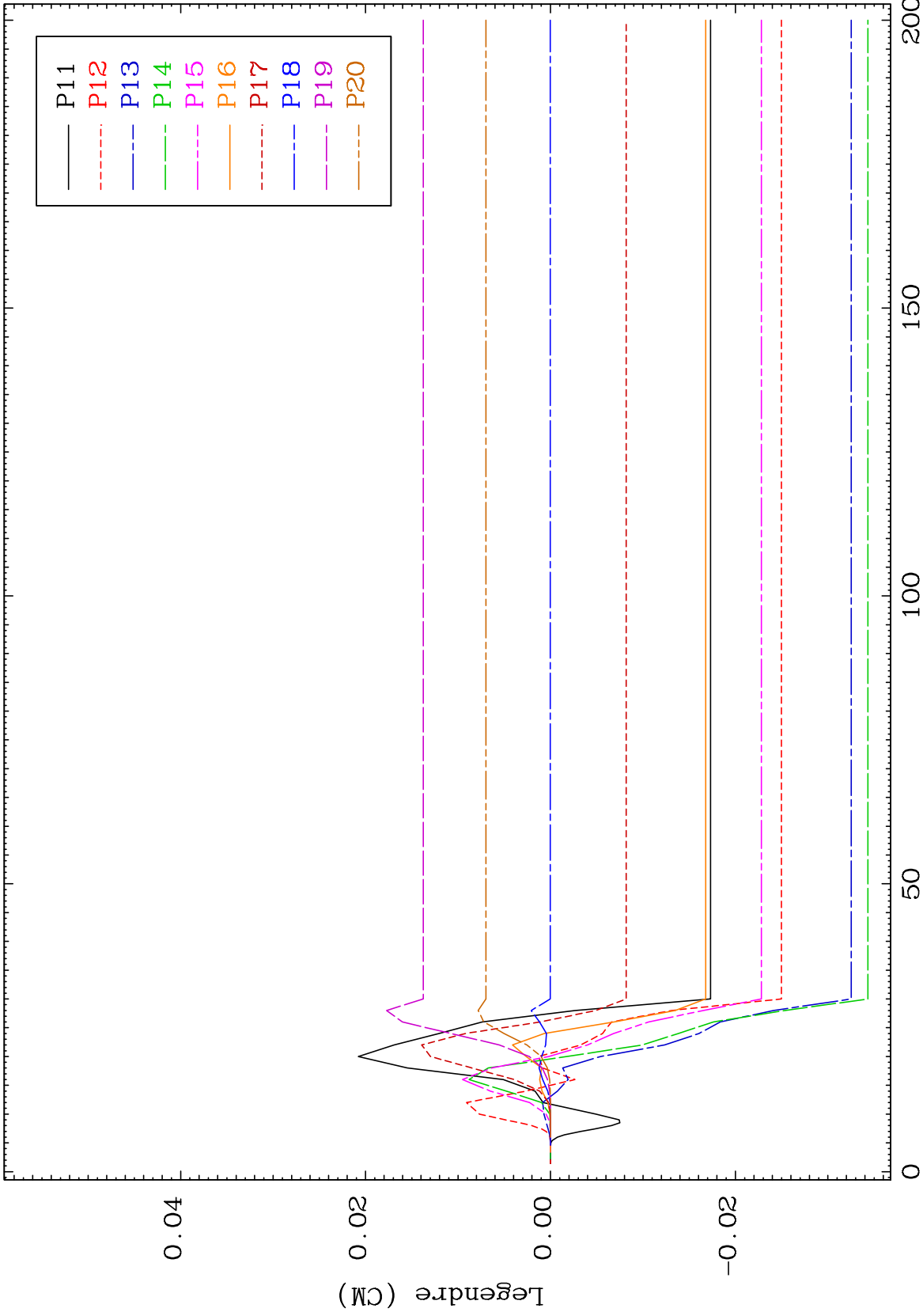
92

82-Pb-189

MAT 8180

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

82-Pb-189



93

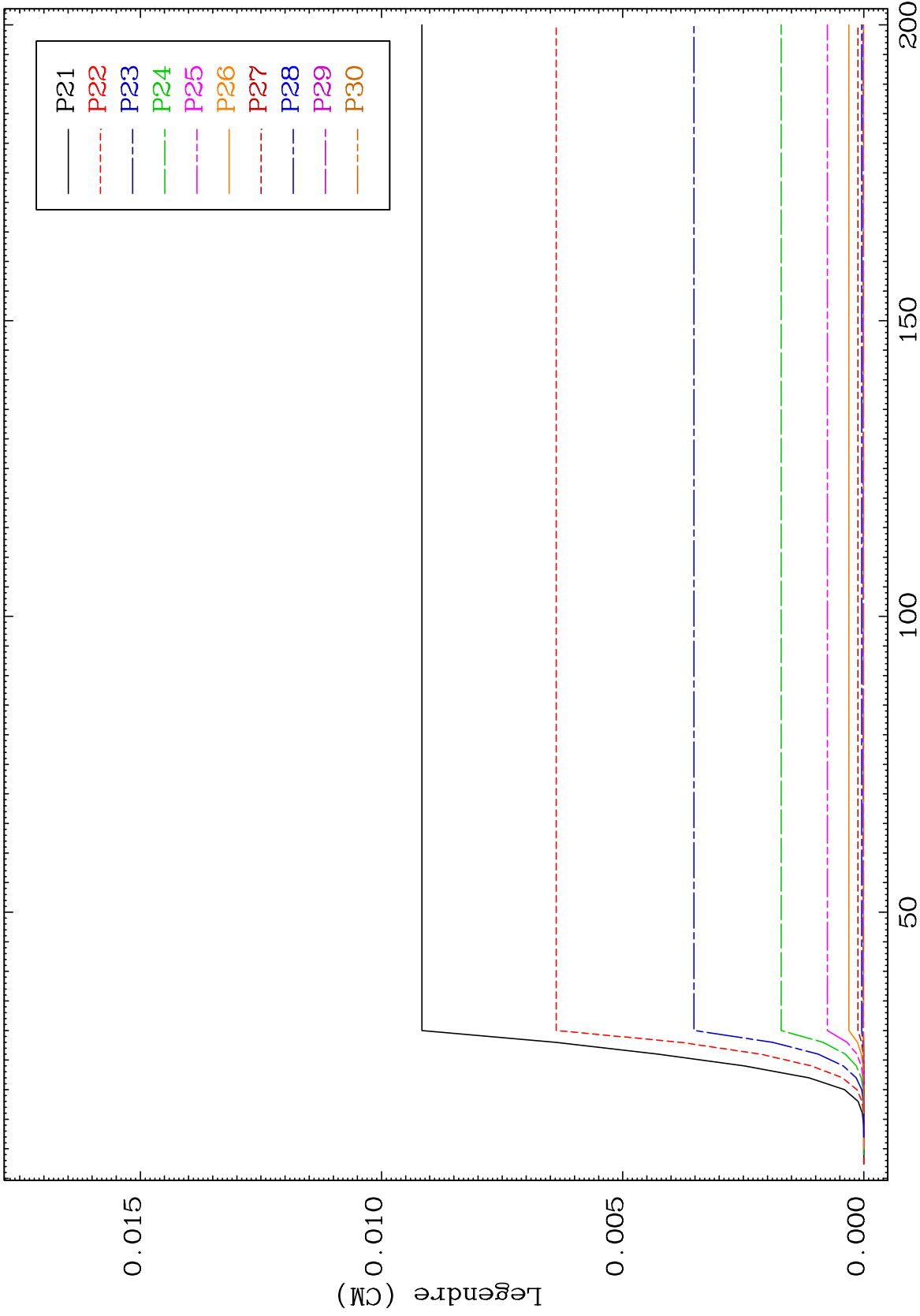
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



94

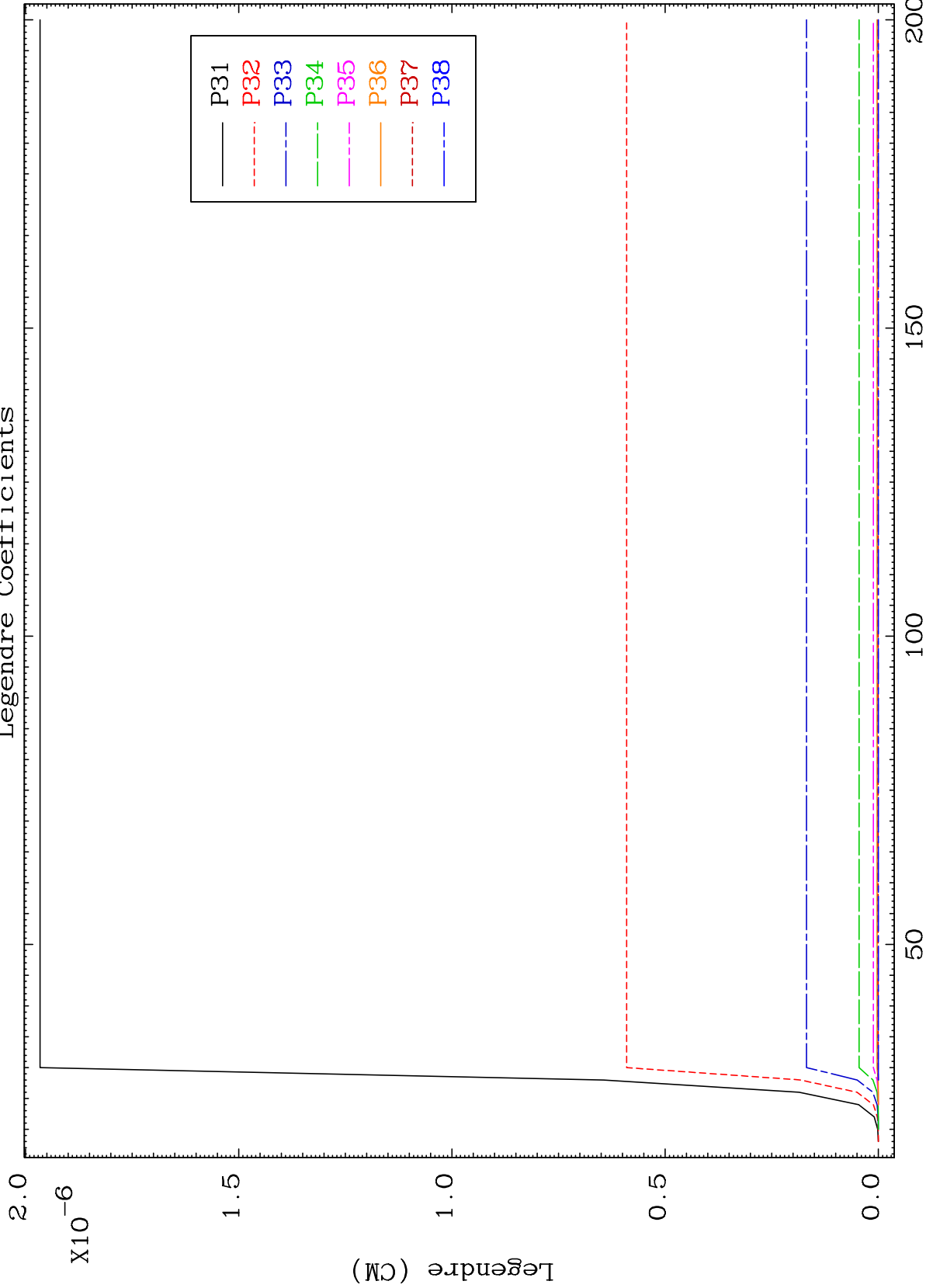
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



95

Incident Energy (MeV)

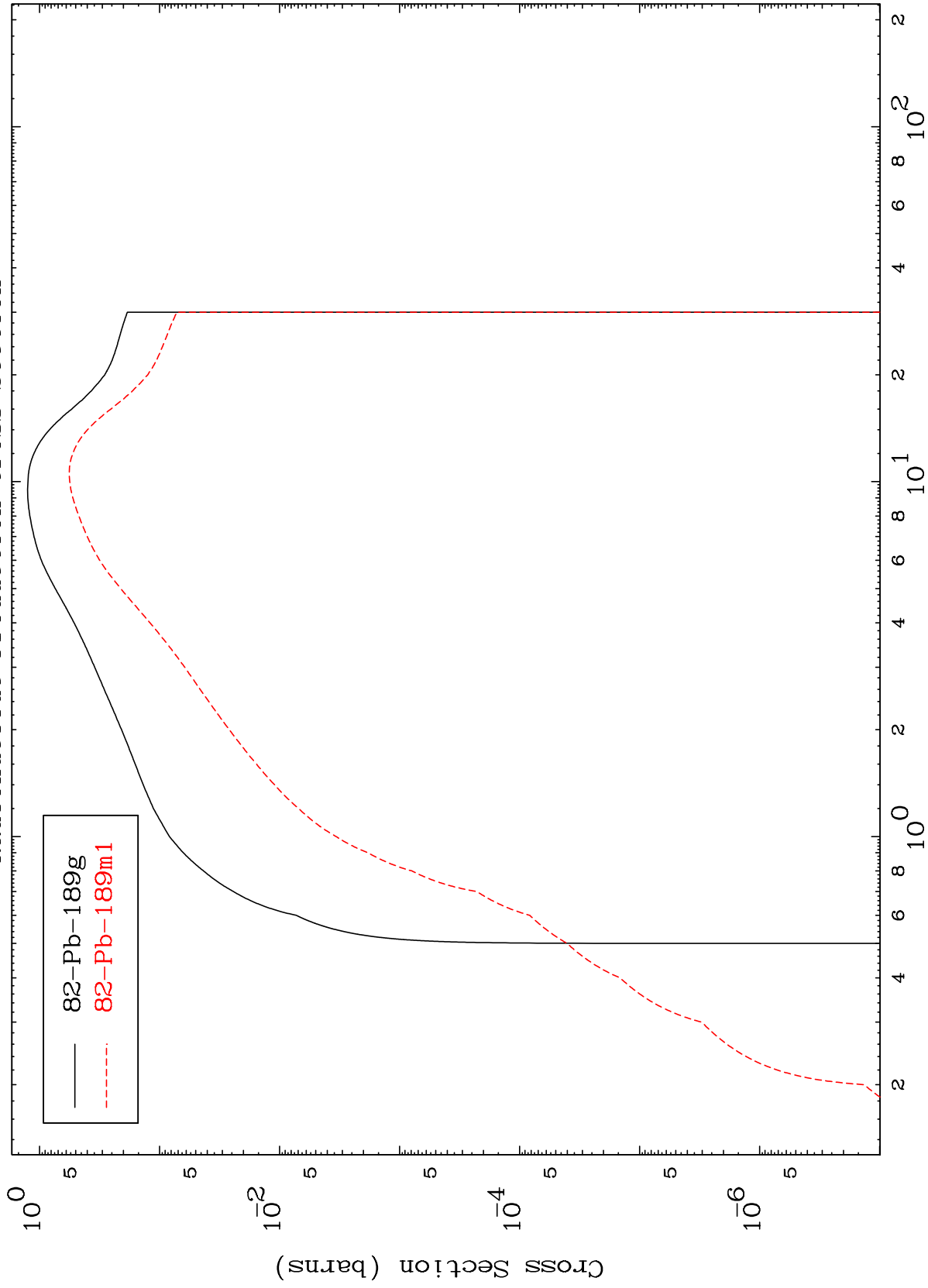
82-Pb-189



MAT 8180

82-Pb-189

### Inelastic Radionuclide Production Cross Section



96

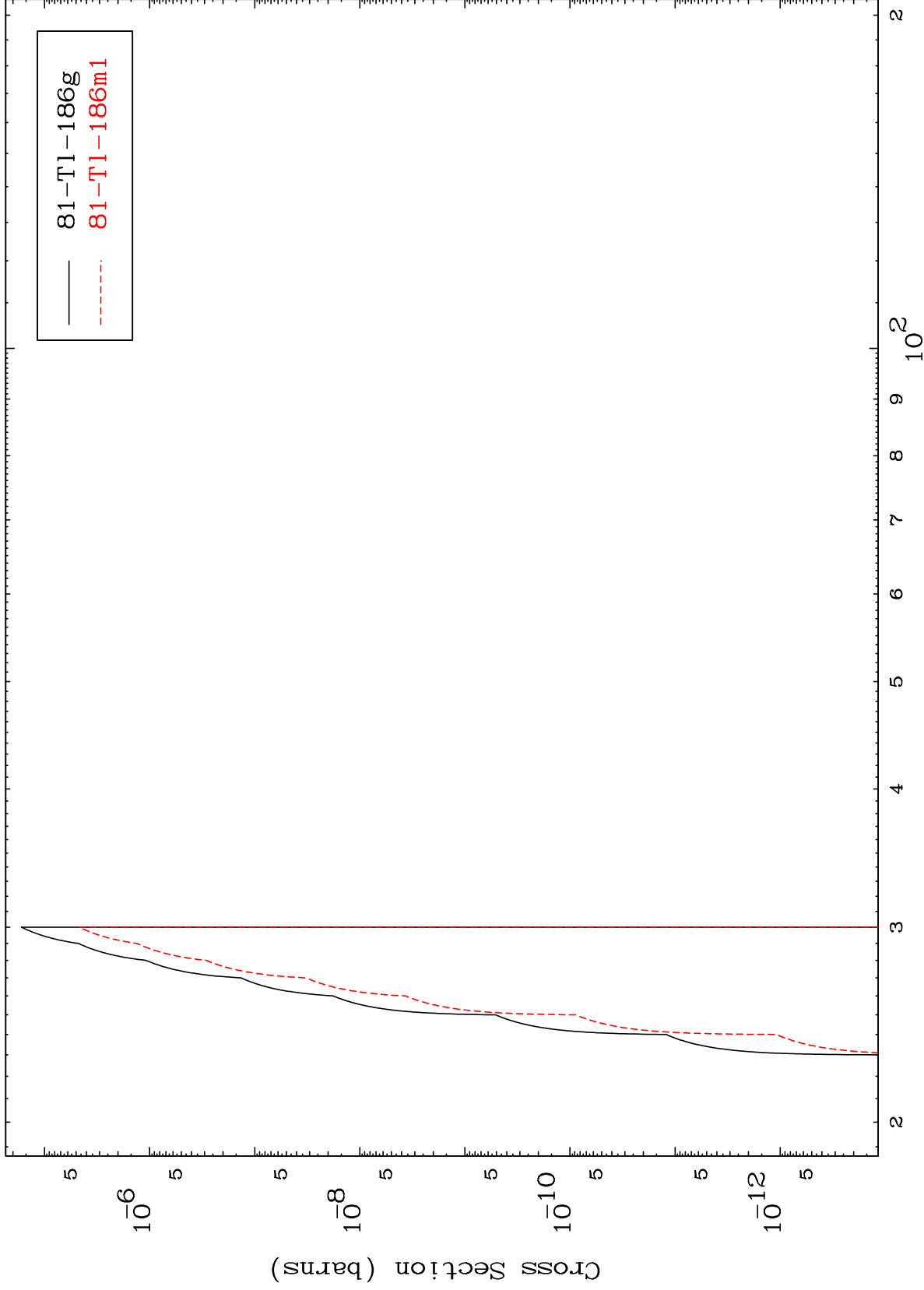
82-Pb-189

MAT 8180

(n,2n) d

82-Pb-189

Radionuclide Production Cross Section



97

Incident Energy (MeV)

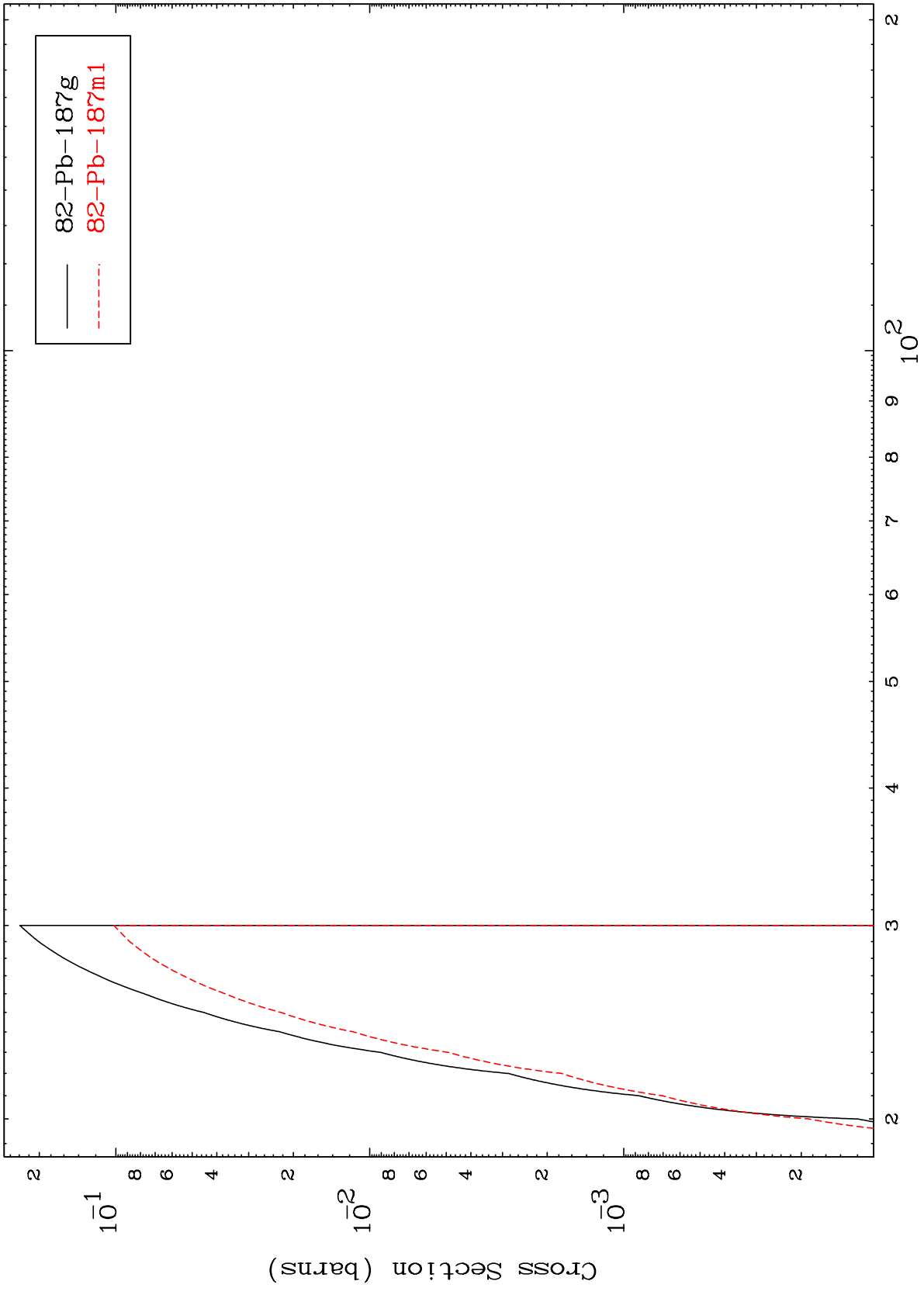
82-Pb-189

MAT 8180

(n,3n)

82-Pb-189

Radionuclide Production Cross Section



98

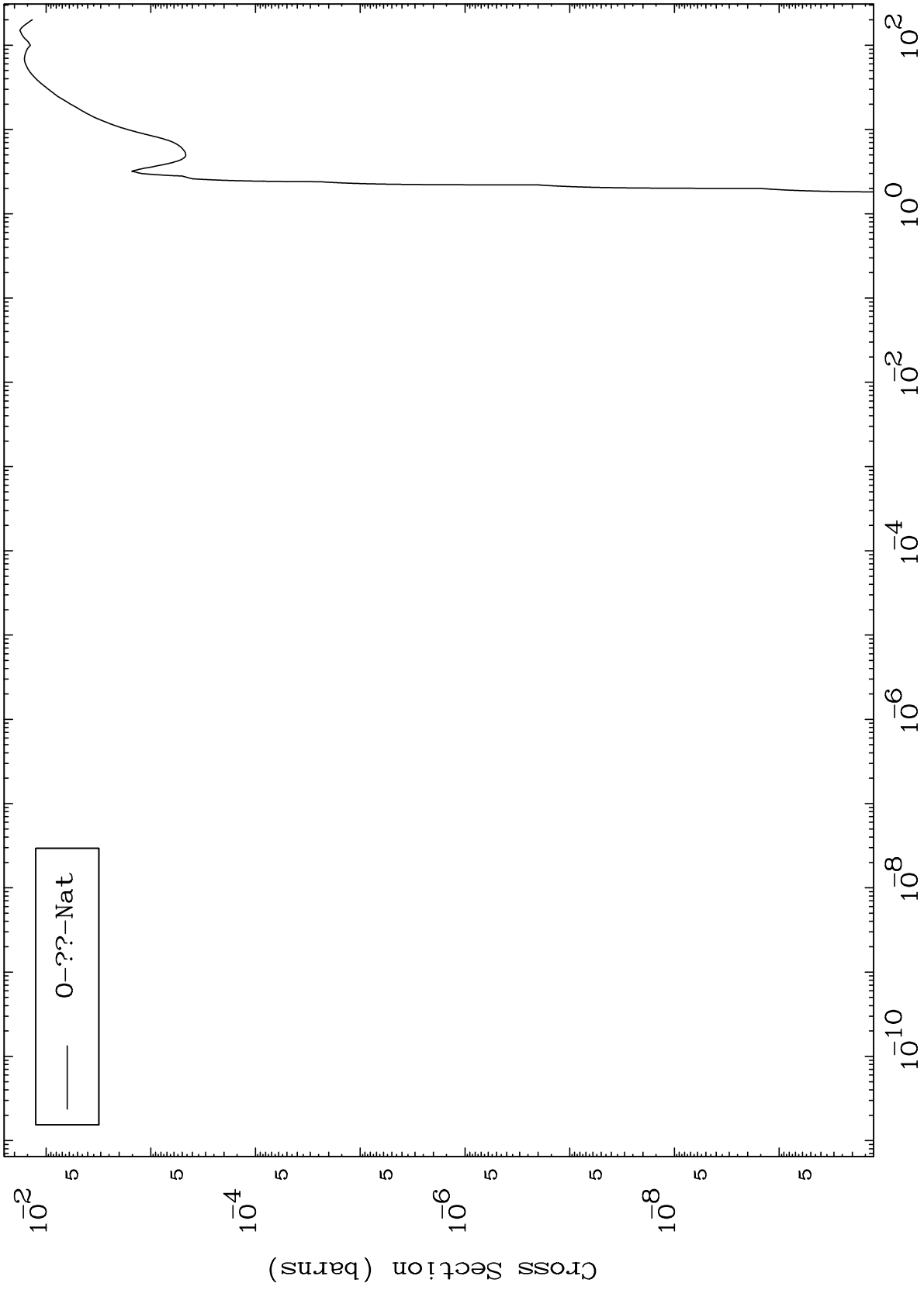
Incident Energy (MeV)

82-Pb-189

MAT 8180

Fission  
Radionuclide Production Cross Section

82-Pb-189



99

Incident Energy (MeV)

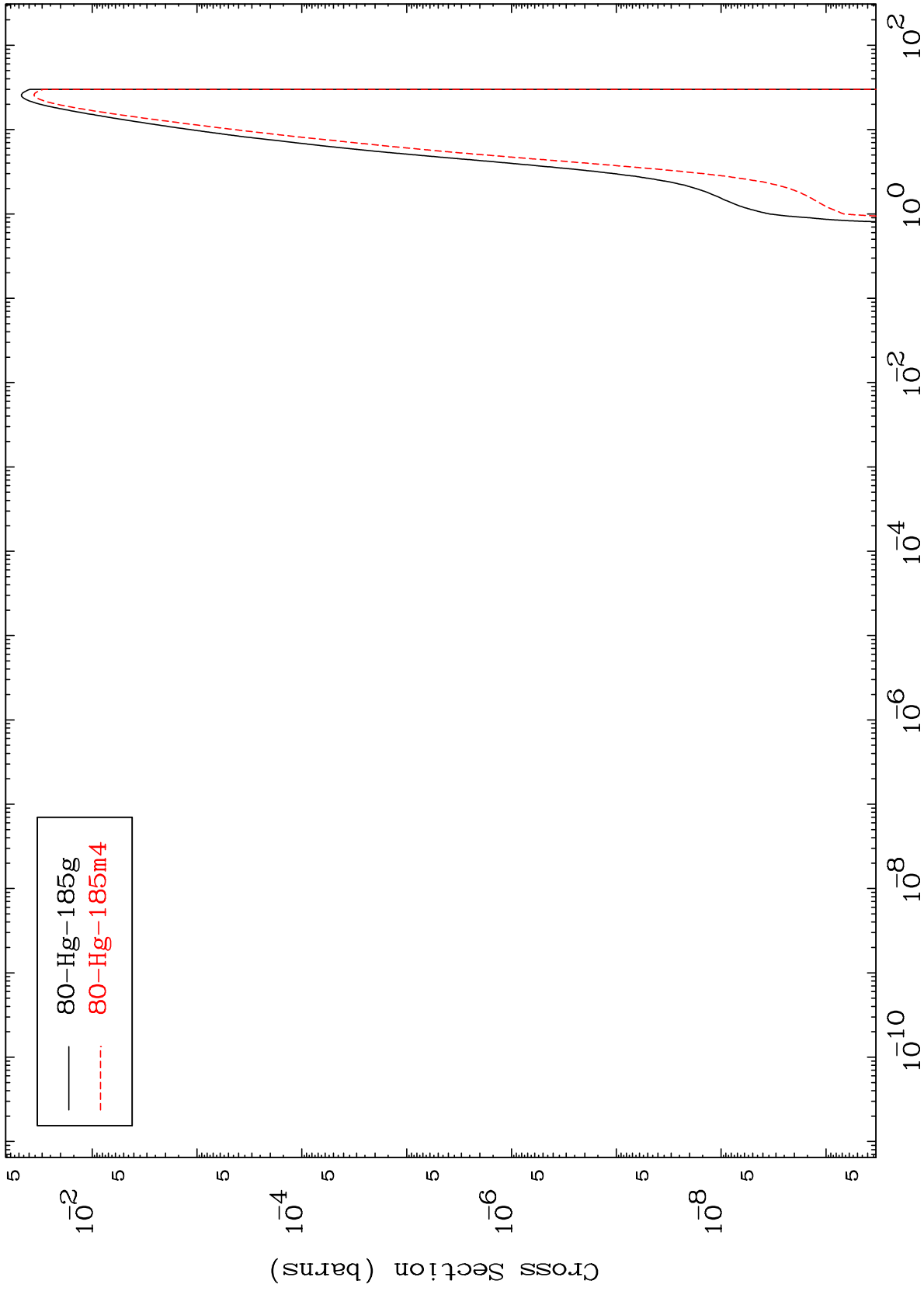
82-Pb-189

MAT 8180

(n,n')  $\alpha$

82-Pb-189

Radionuclide Production Cross Section

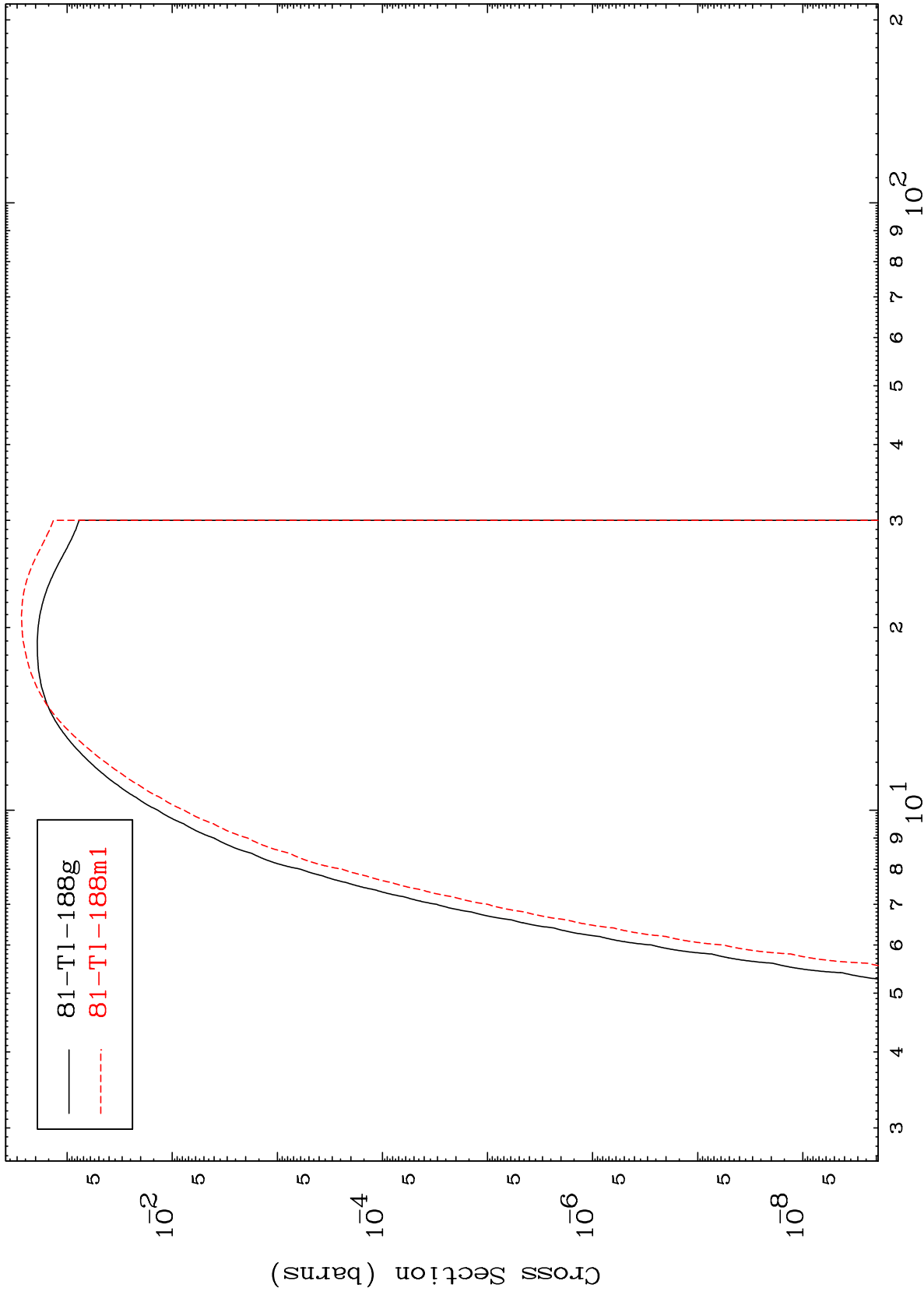


MAT 8180

(n,n') p

82-Pb-189

Radionuclide Production Cross Section



81-Tl-188g  
81-Tl-188m1

101

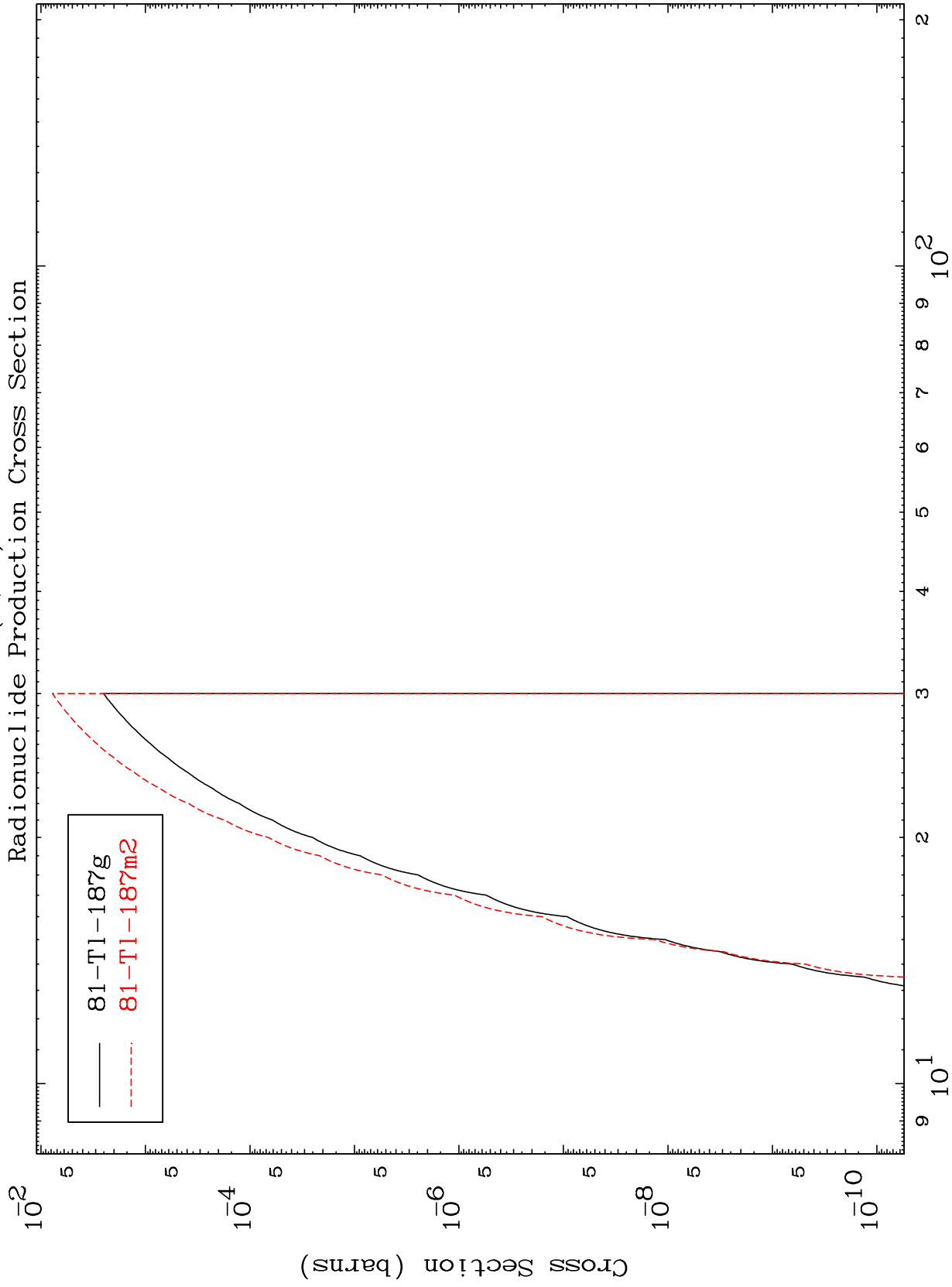
Incident Energy (MeV)

82-Pb-189

MAT 8180

(n,n') d

82-Pb-189



102

Incident Energy (MeV)

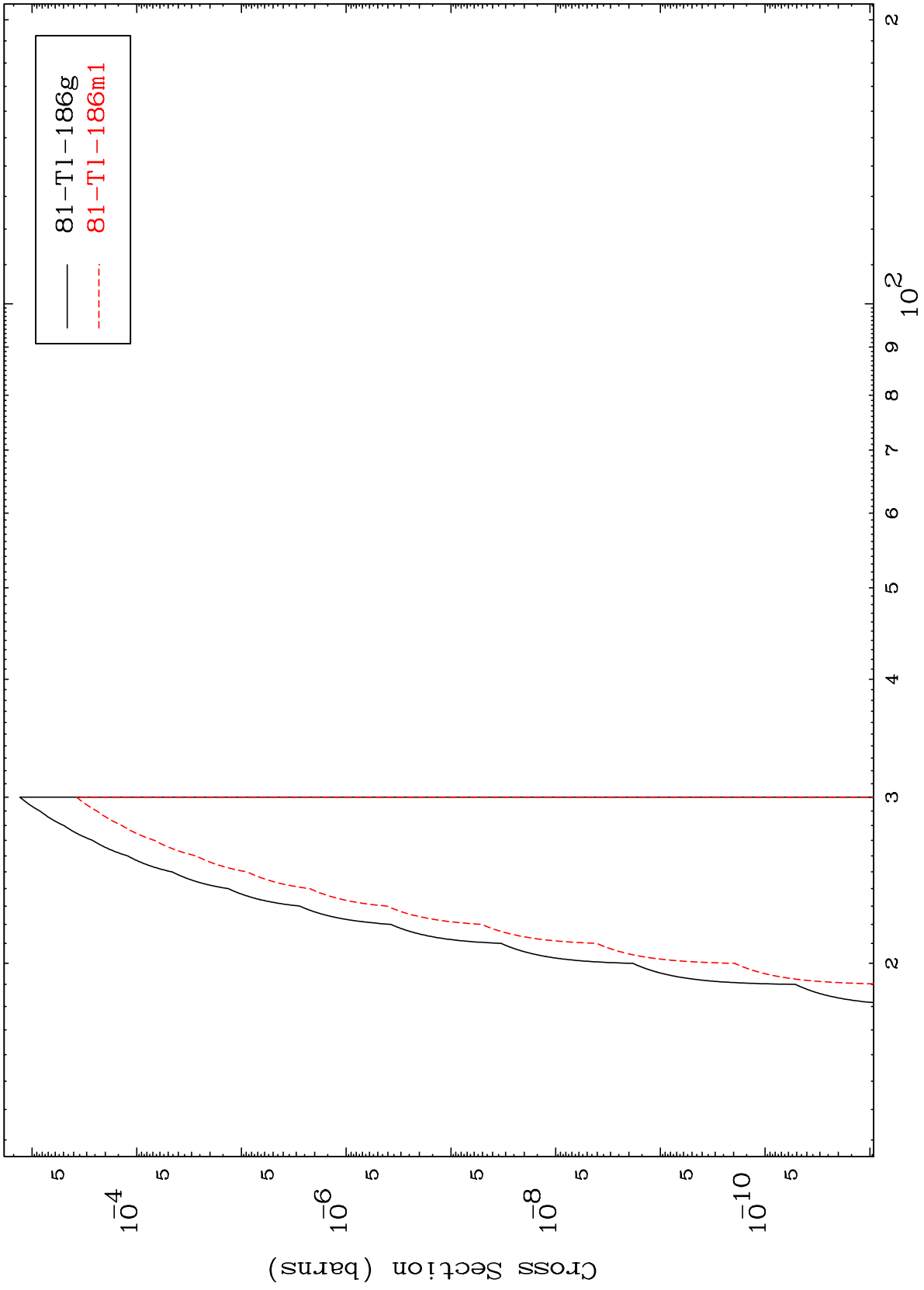
82-Pb-189

MAT 8180

(n,n') t

82-Pb-189

Radionuclide Production Cross Section



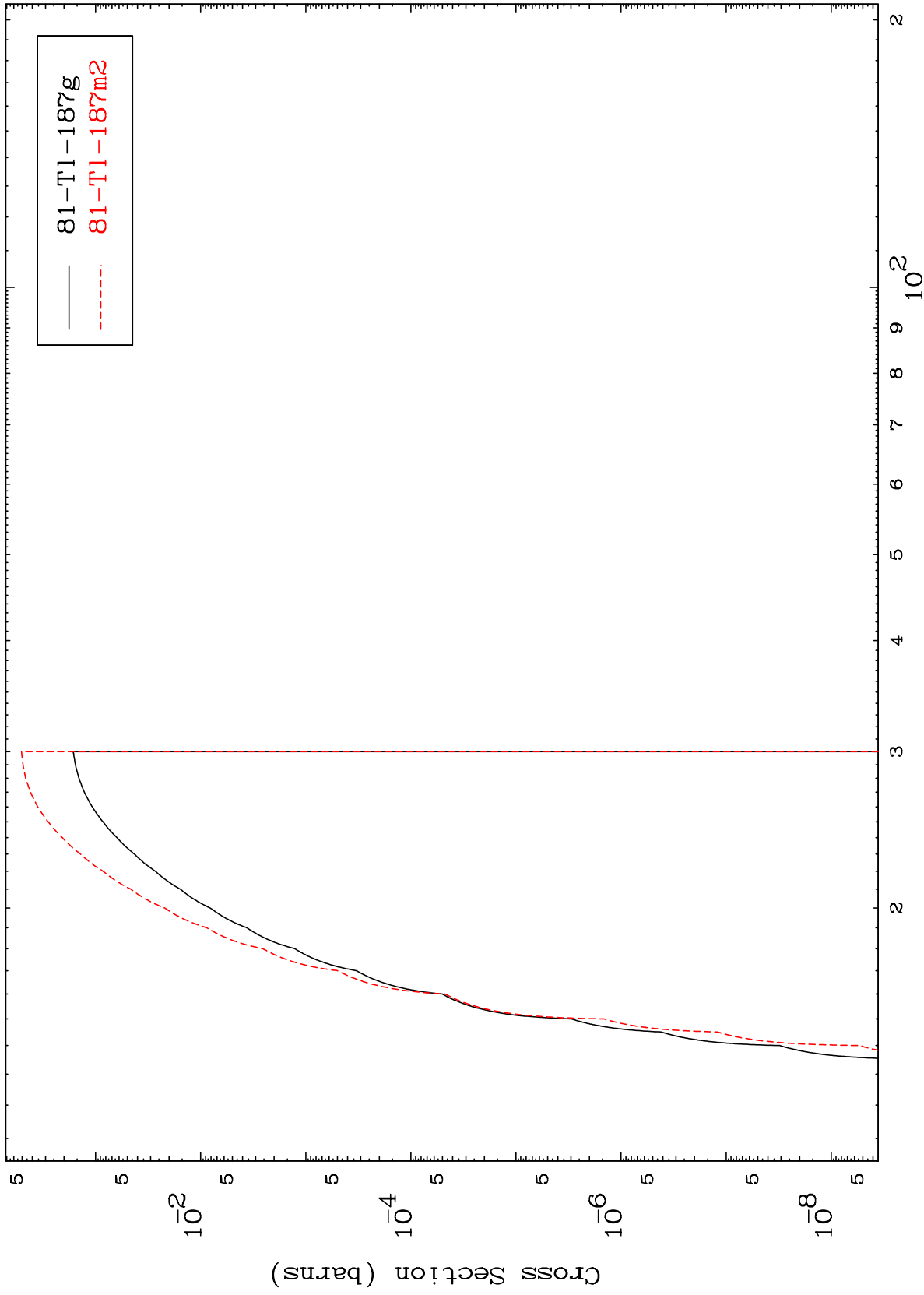
103

Incident Energy (MeV)

82-Pb-189



Radionuclide Production Cross Section

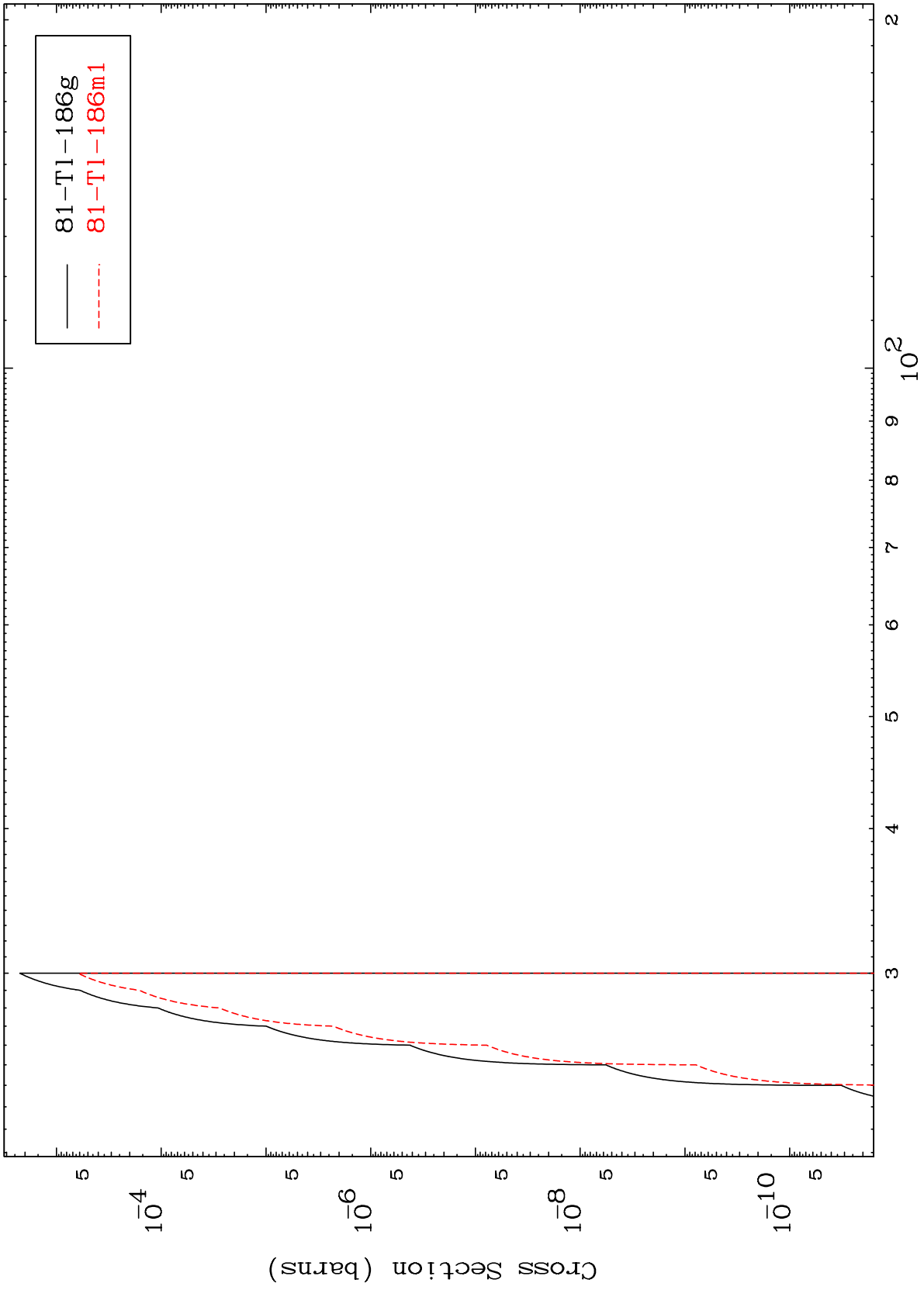


MAT 8180

(n,3n) p

82-Pb-189

Radionuclide Production Cross Section



105

Incident Energy (MeV)

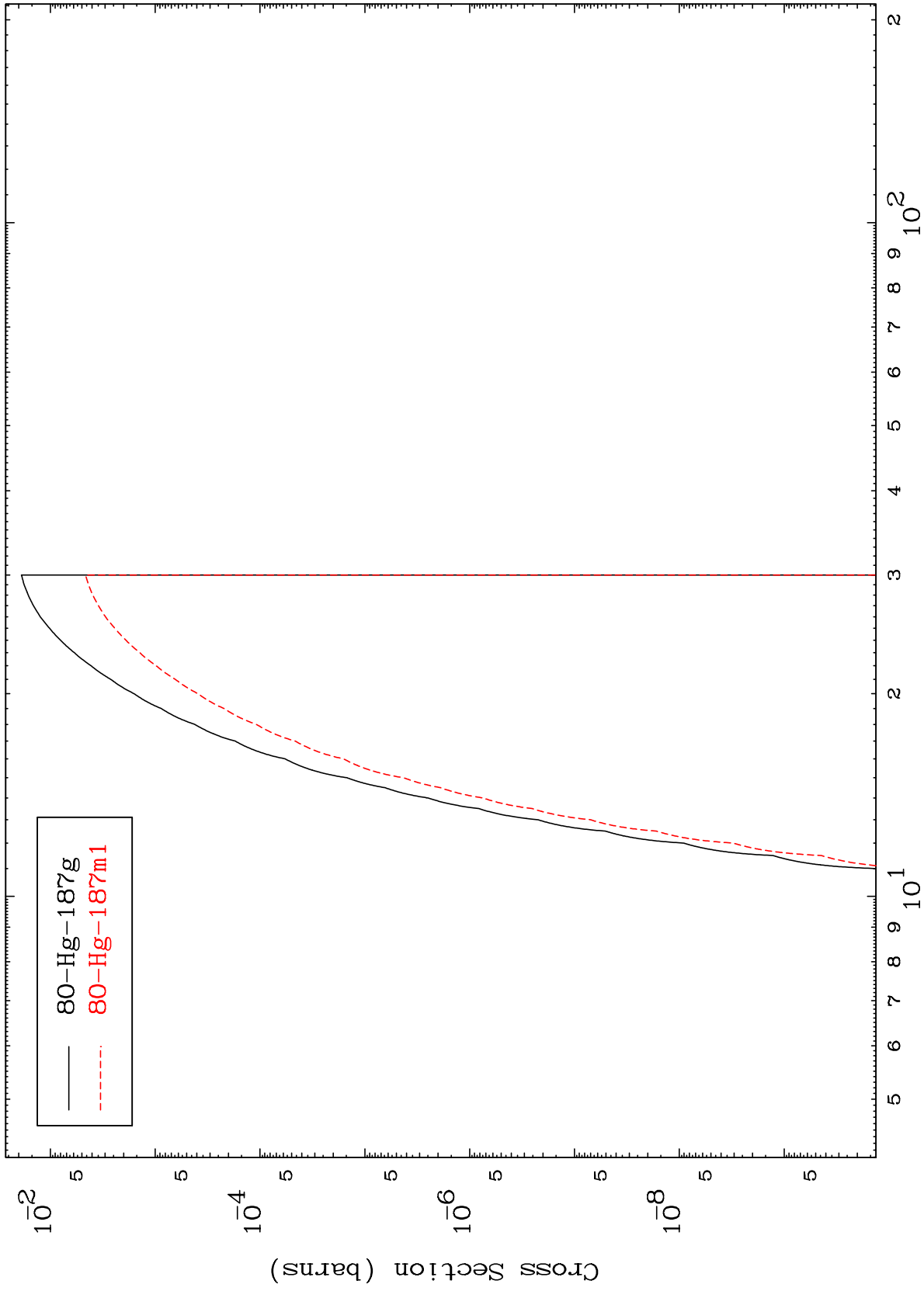
82-Pb-189

MAT 8180

(n,2n) p

82-Pb-189

Radionuclide Production Cross Section



106

Incident Energy (MeV)

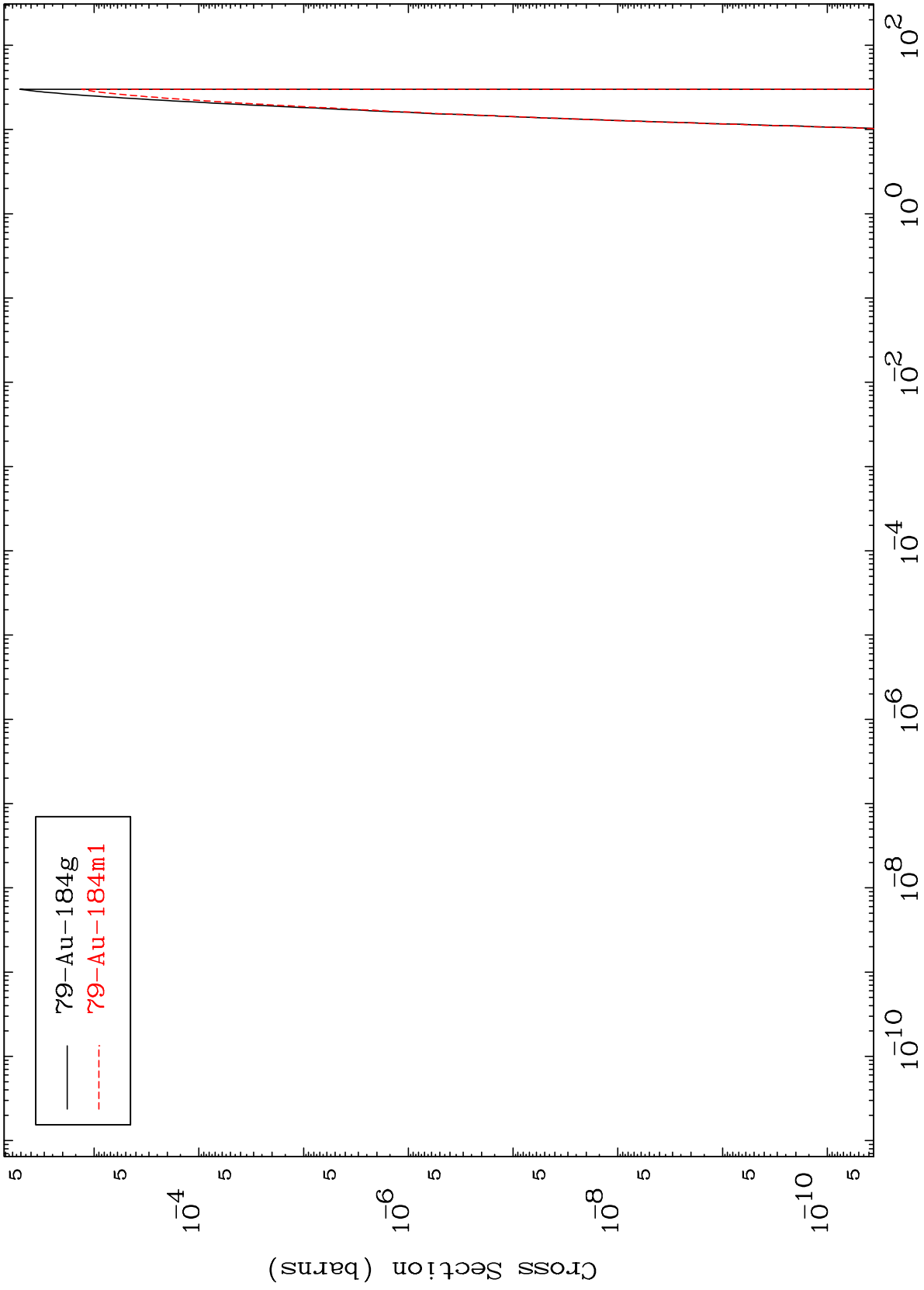
82-Pb-189

MAT 8180

(n,n') p  $\alpha$

82-Pb-189

Radionuclide Production Cross Section



107

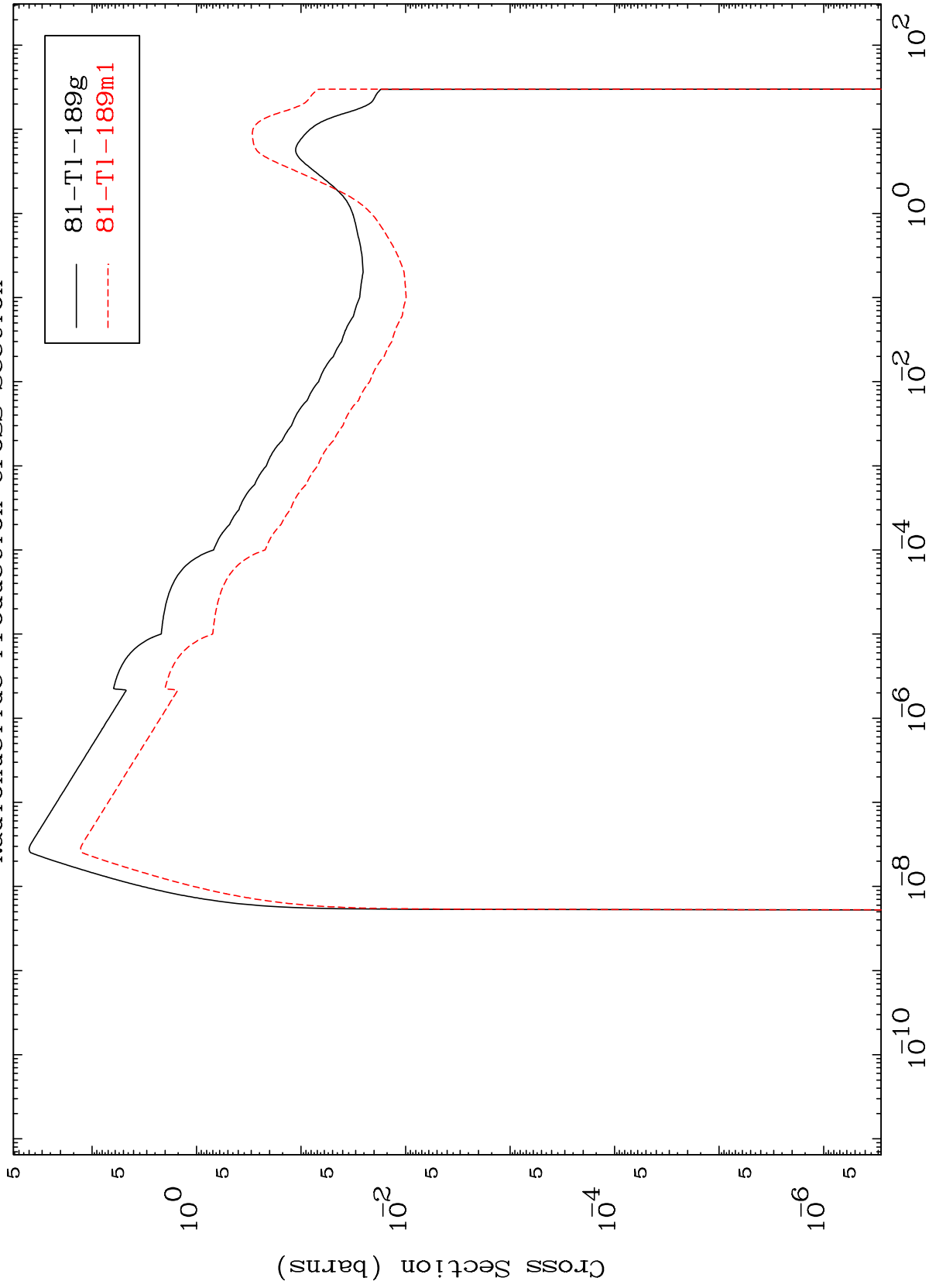
Incident Energy (MeV)

82-Pb-189

MAT 8180

82-Pb-189

(n,p)  
Radionuclide Production Cross Section



108

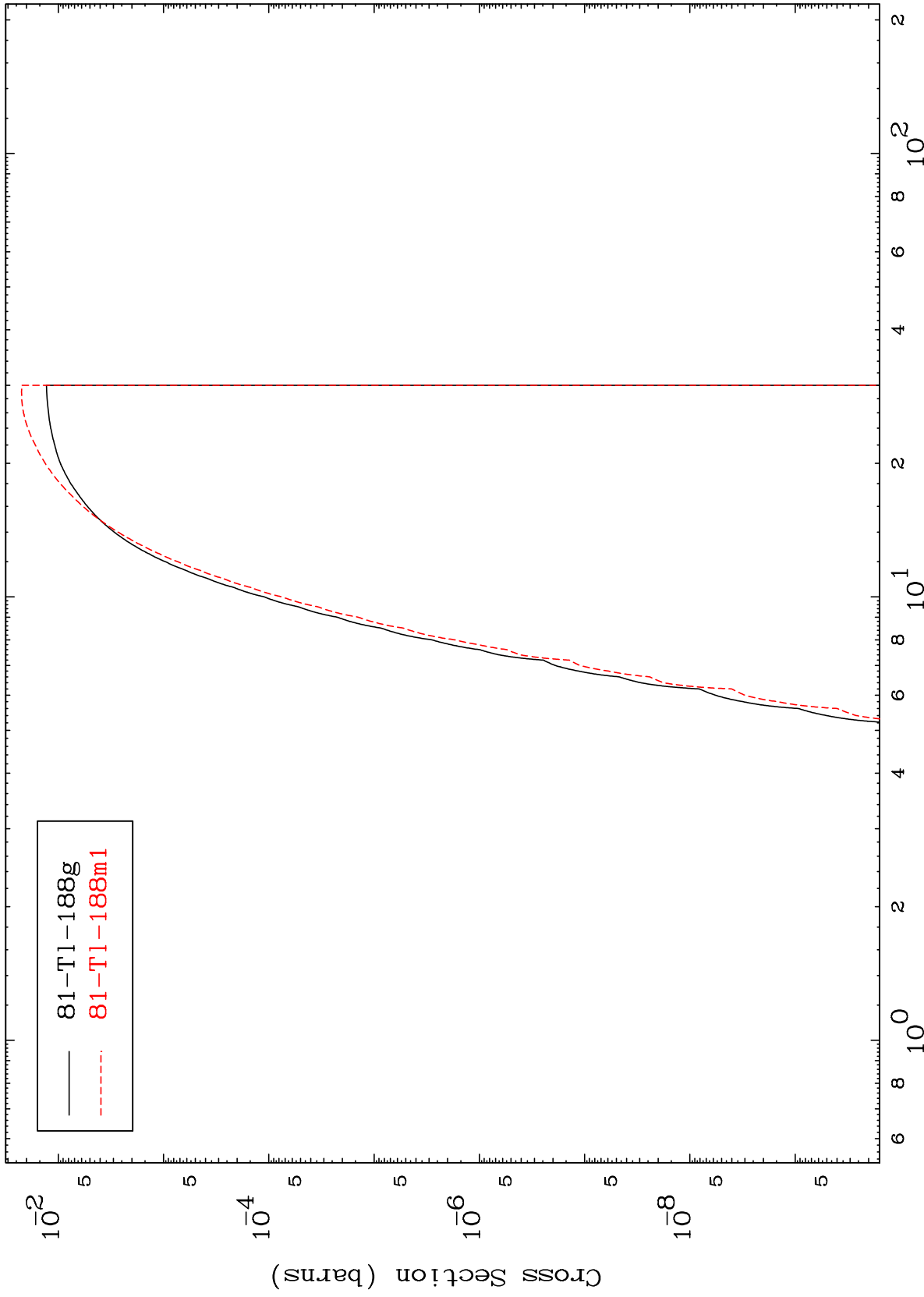
82-Pb-189

MAT 8180

(n,d)

82-Pb-189

Radionuclide Production Cross Section

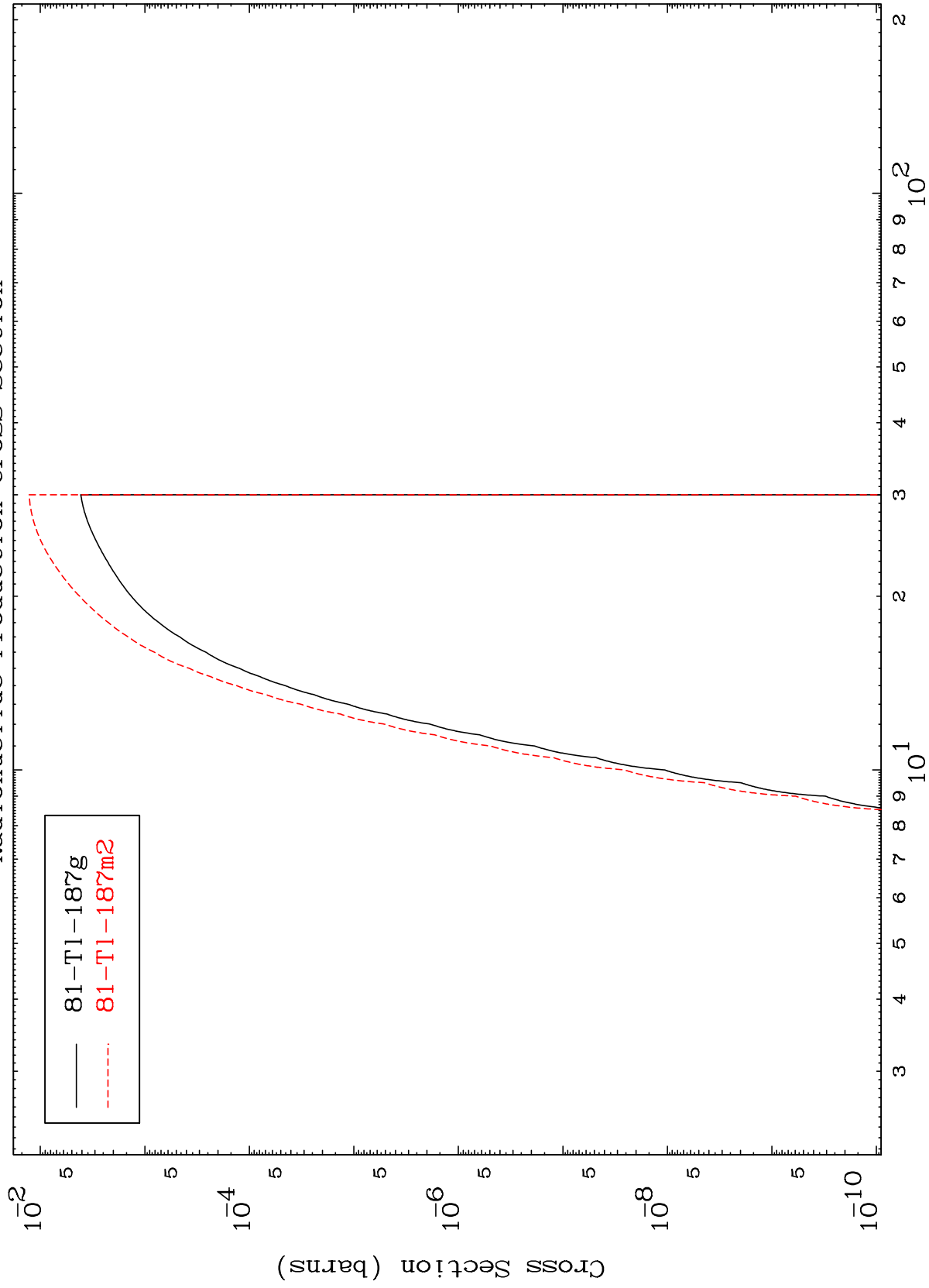


109

MAT 8180

82-Pb-189

(n, t)  
Radionuclide Production Cross Section



81-Tl-187g  
81-Tl-187m2

110

Incident Energy (MeV)

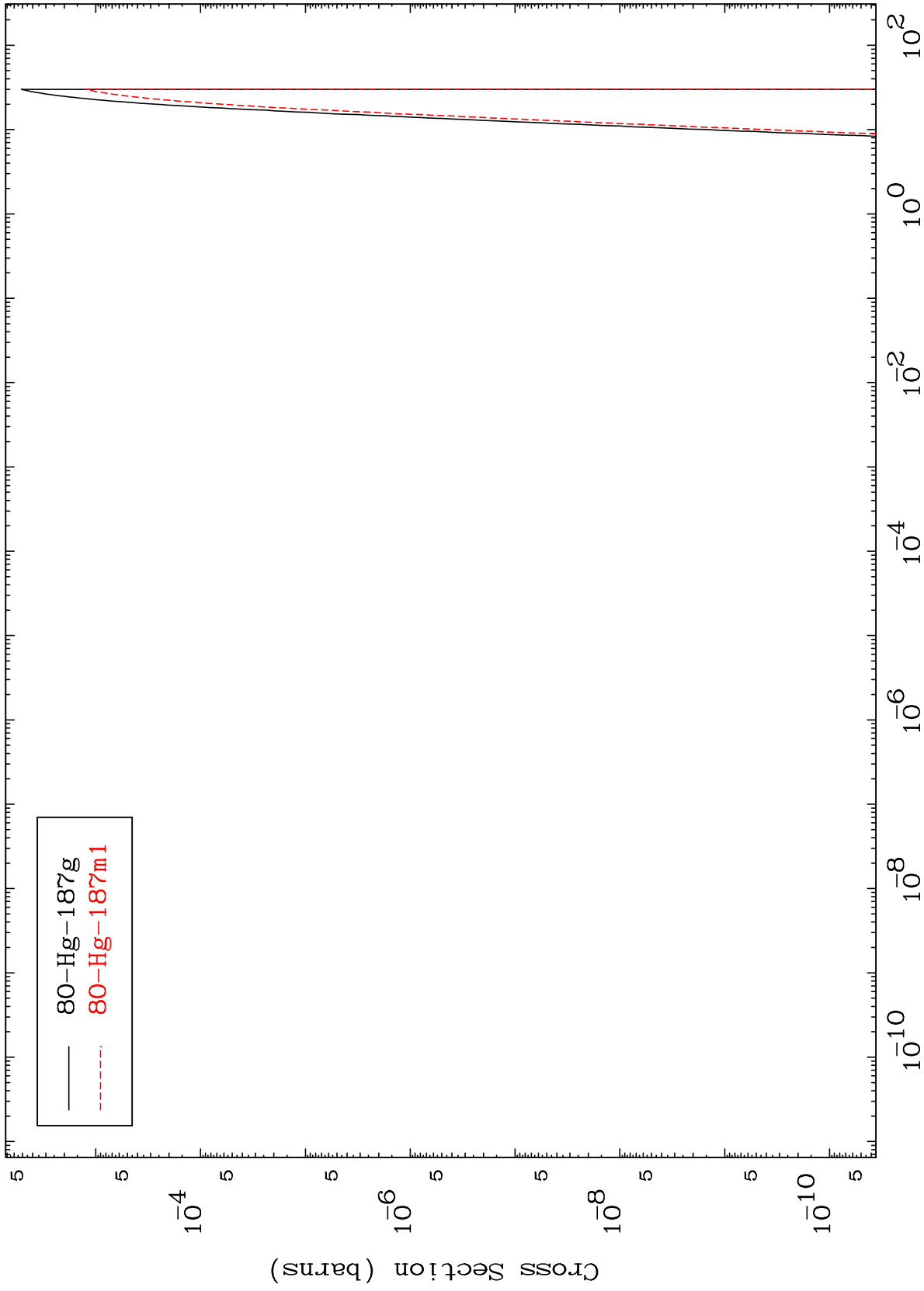
82-Pb-189

MAT 8180

(n, He-3)

82-Pb-189

Radionuclide Production Cross Section



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

111

Incident Energy (MeV)

82-Pb-189

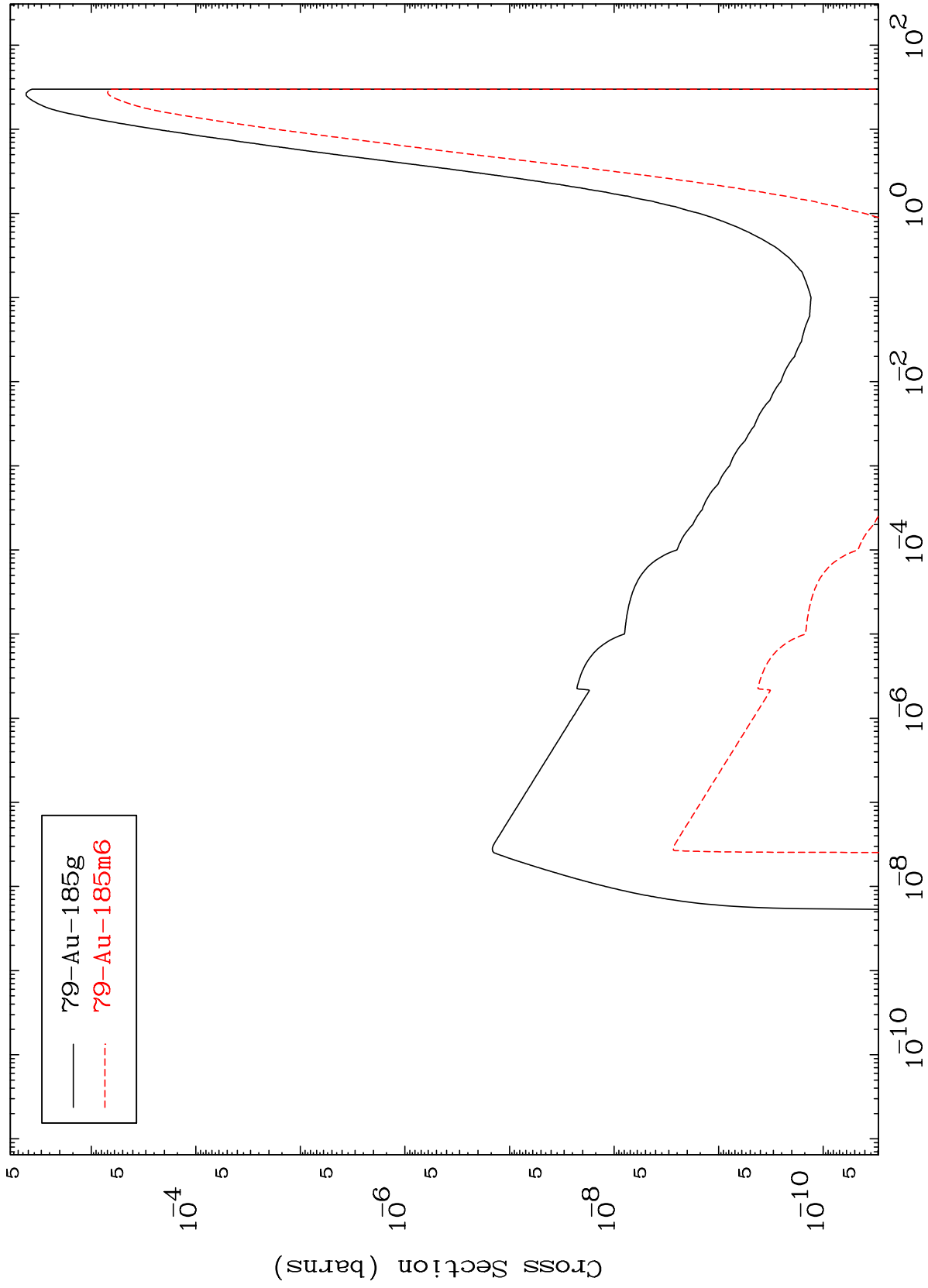


MAT 8180

(n,p)  $\alpha$

82-Pb-189

Radionuclide Production Cross Section



112

Incident Energy (MeV)

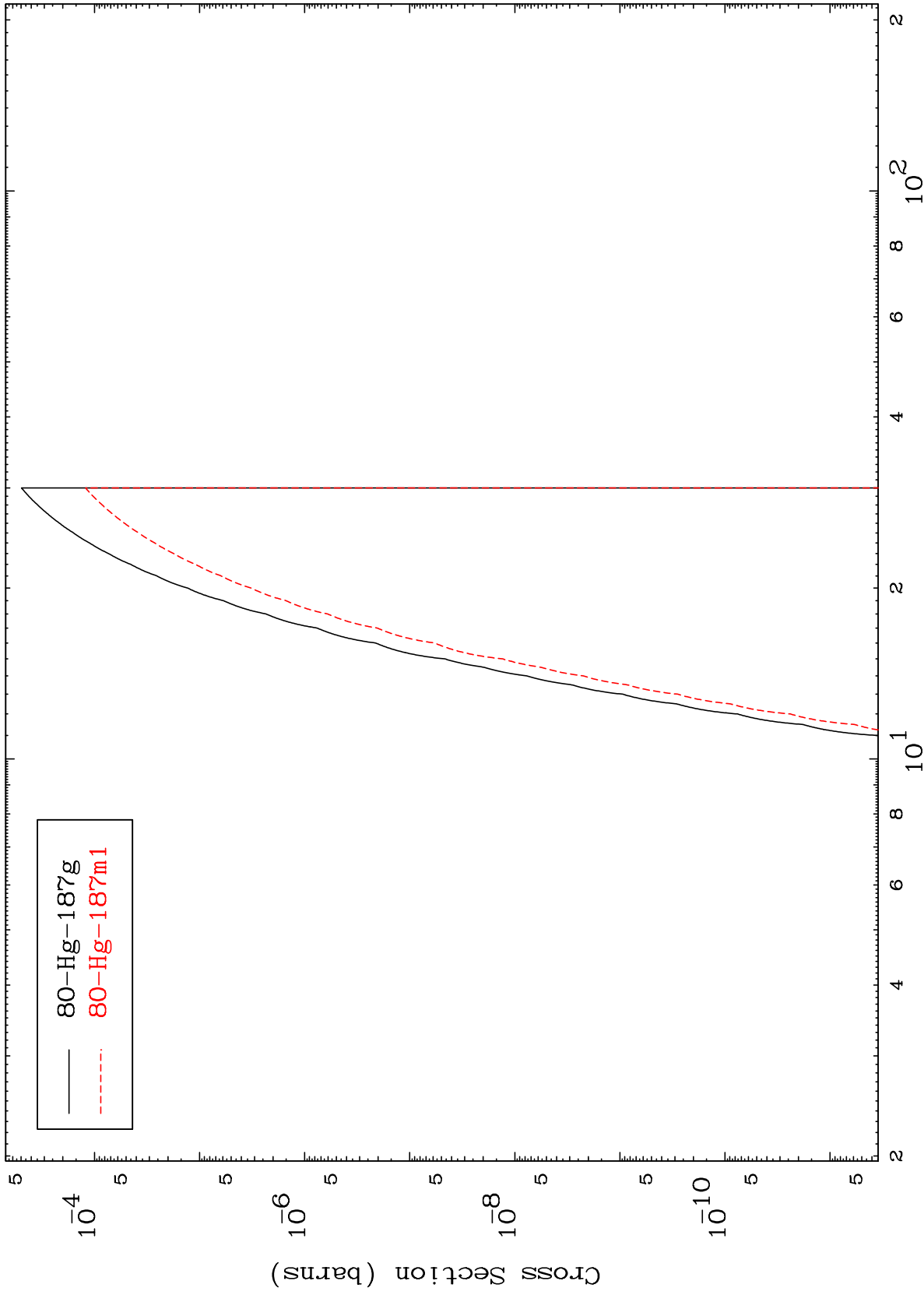
82-Pb-189

MAT 8180

(n,p) d

82-Pb-189

Radionuclide Production Cross Section



113

Incident Energy (MeV)

82-Pb-189

MAT 8180

(n,d)  $\alpha$

82-Pb-189

Radionuclide Production Cross Section

