

Program EVALPLOT  
(Version 2021-1)

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

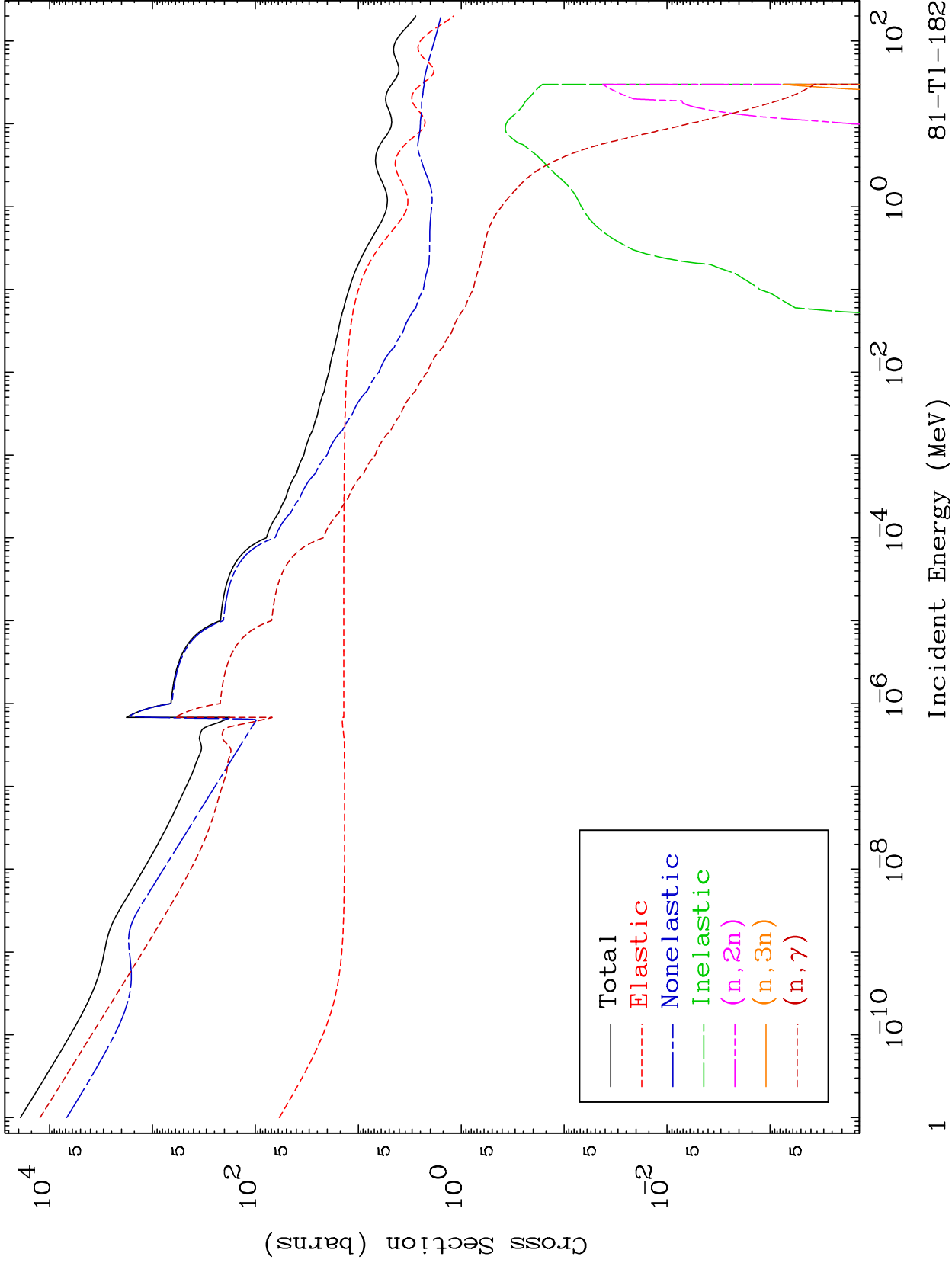
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 8062

Neutron Major  
293 Kelvin Cross Sections

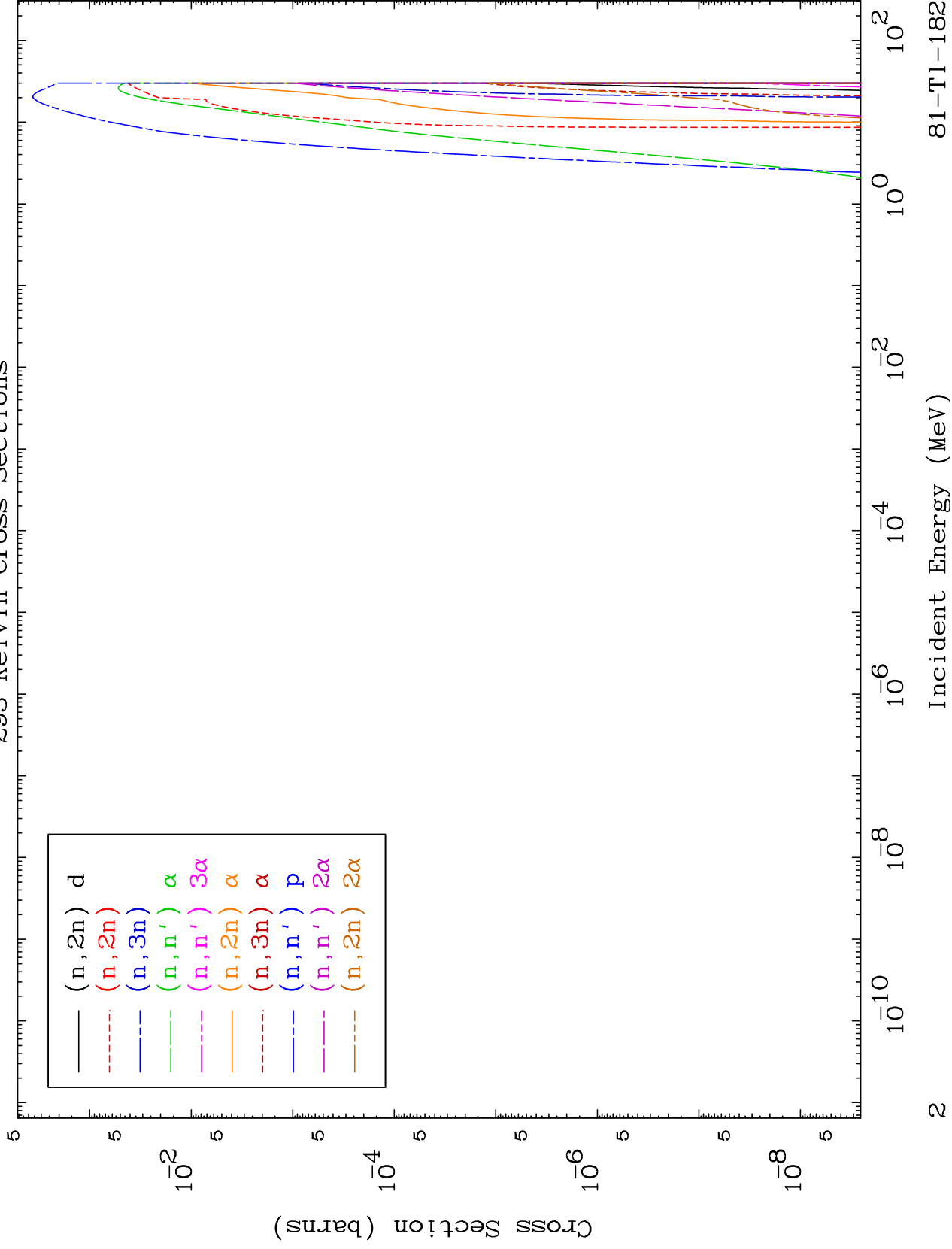
81-Tl-182

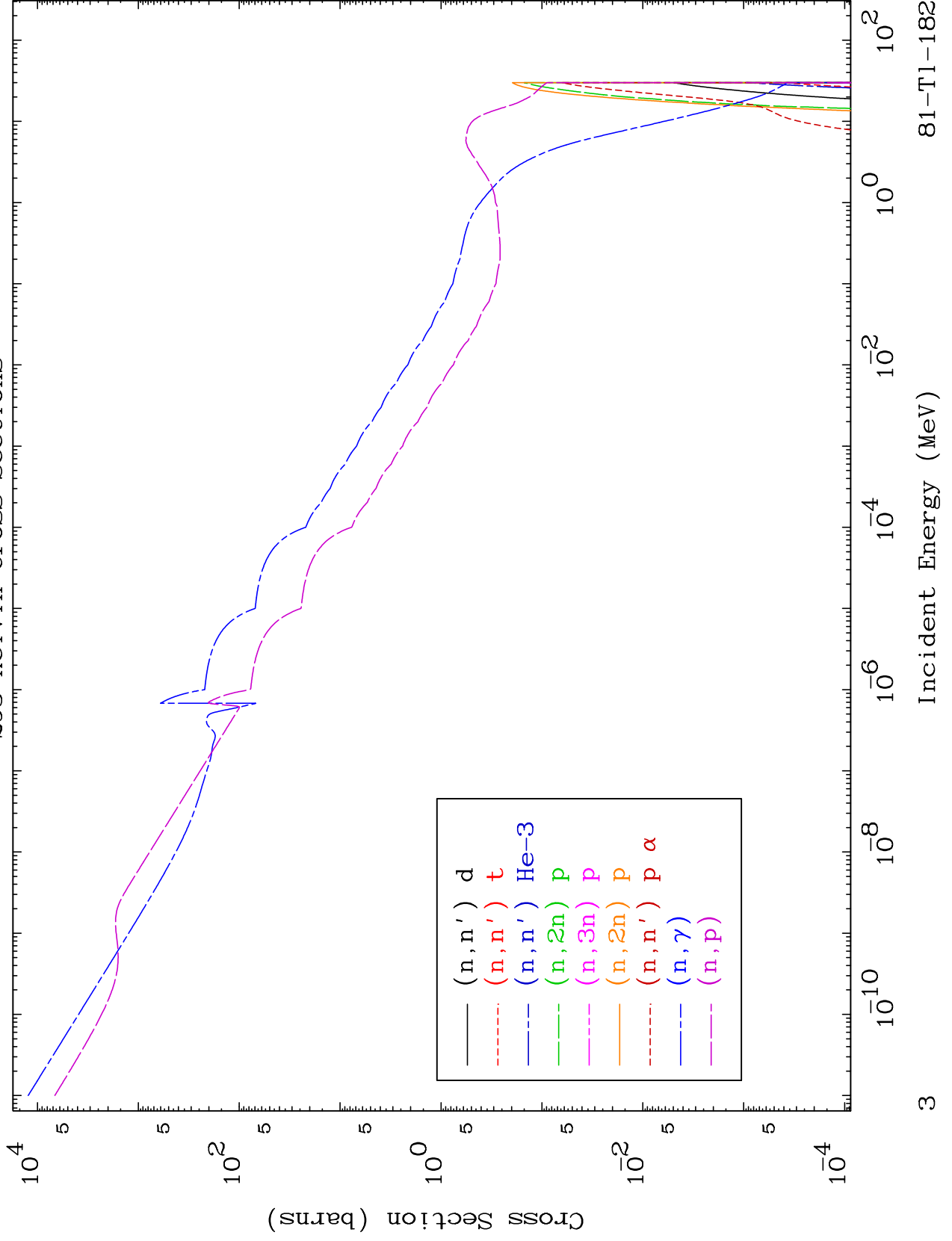


MAT 8062

Neutron Absorption  
293 Kelvin Cross Sections

81-Tl-182

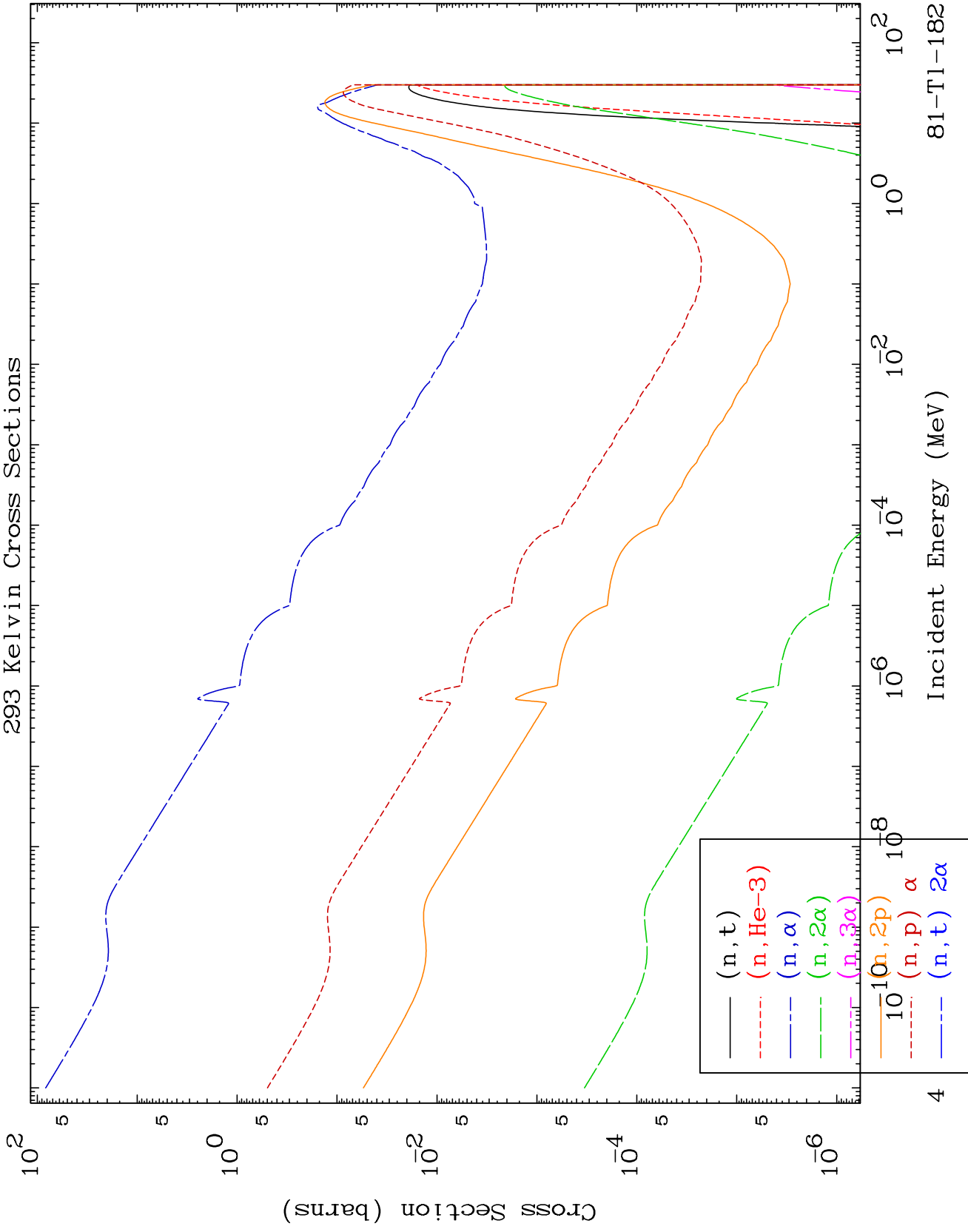


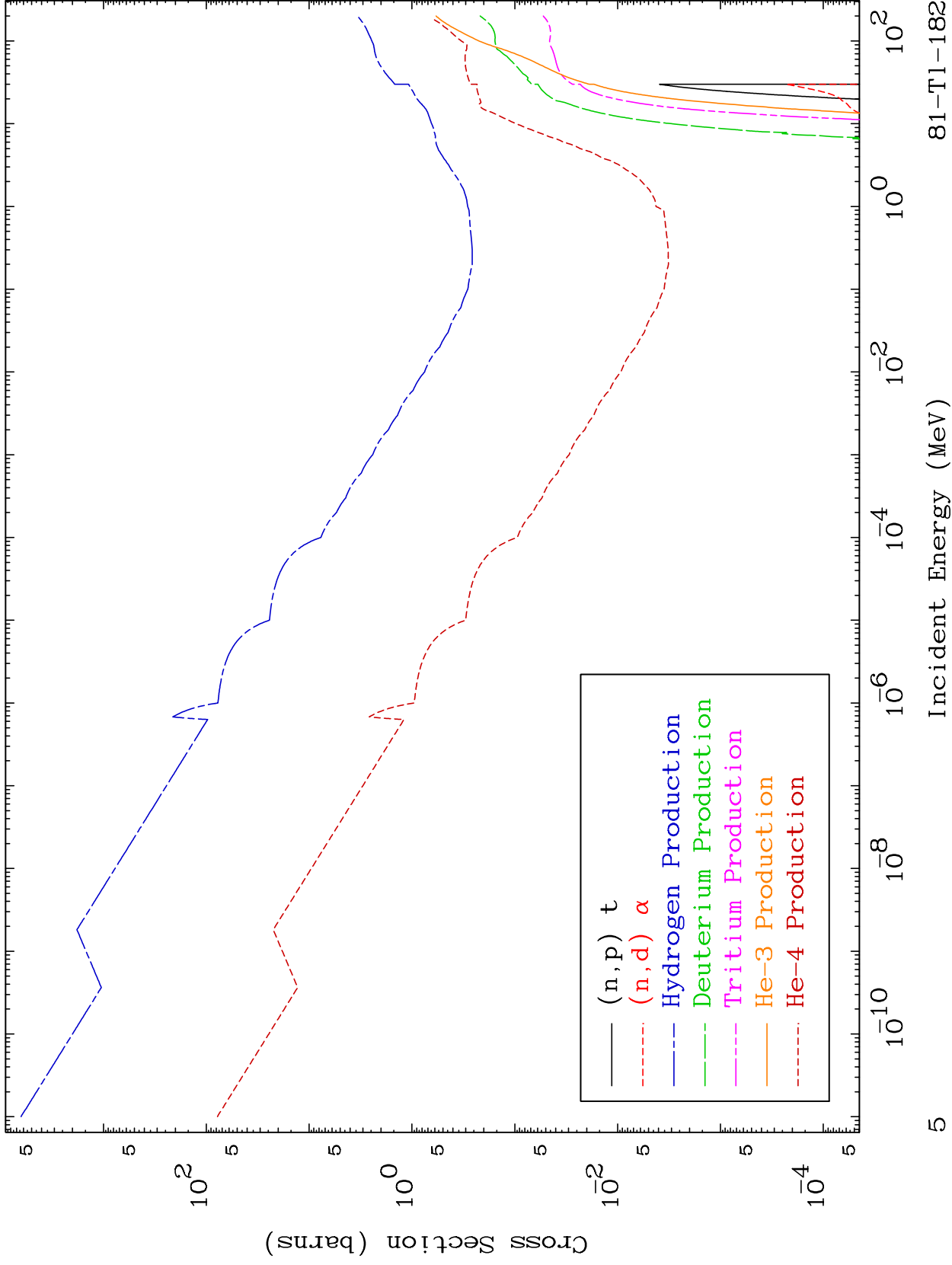


MAT 8062

Neutron Absorption  
293 Kelvin Cross Sections

81-Tl-182

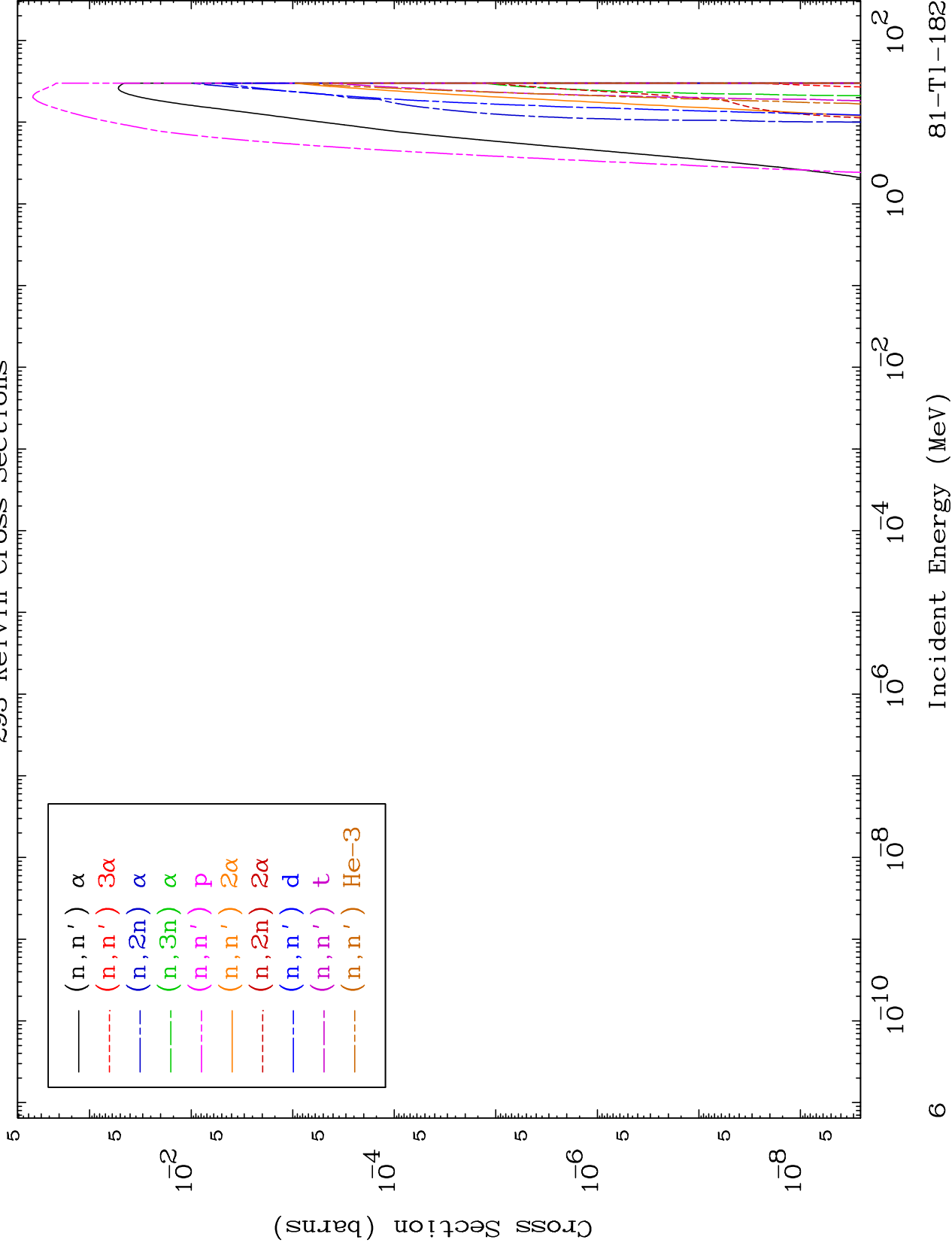




MAT 8062

Charged Particle  
293 Kelvin Cross Sections

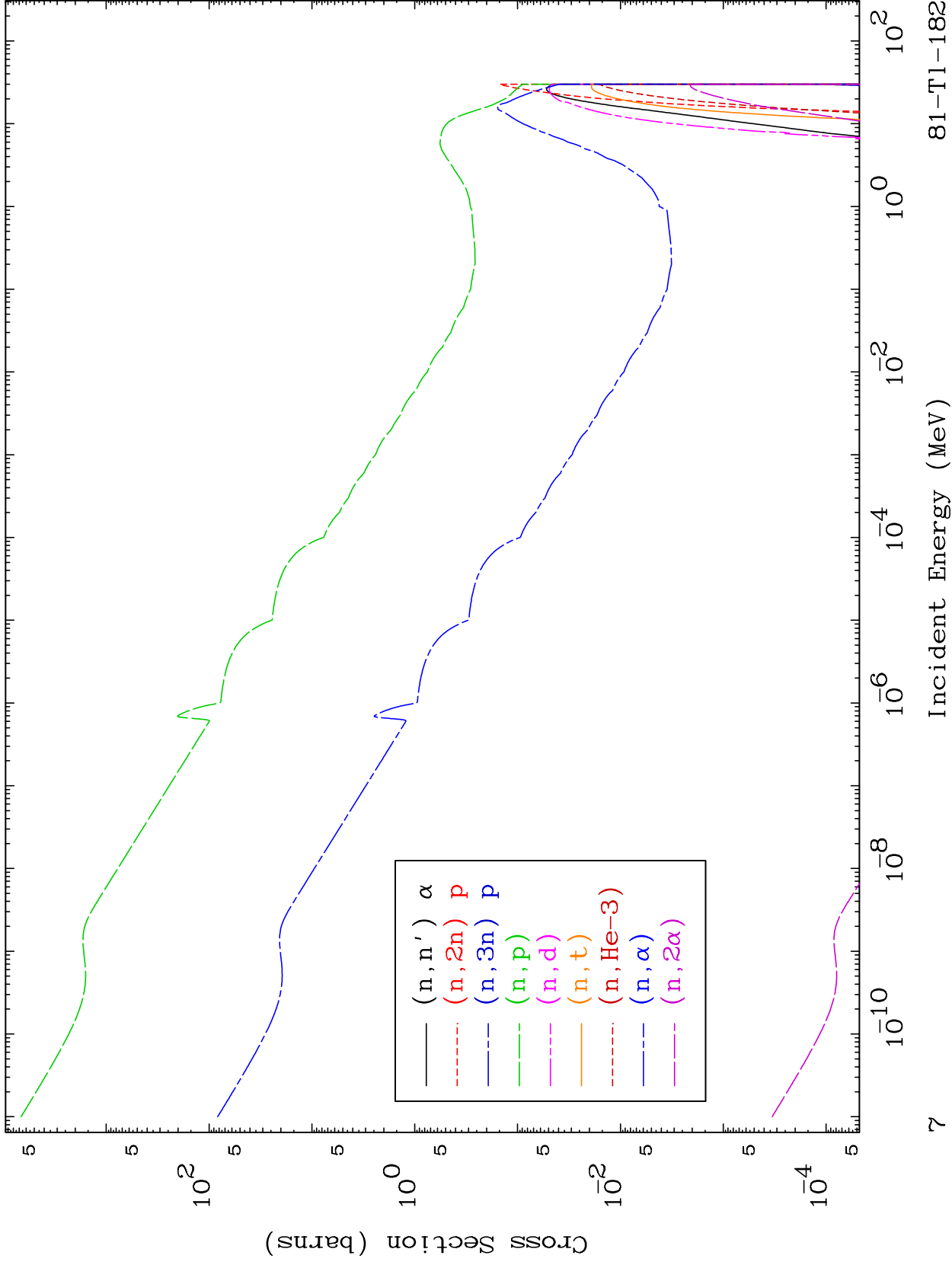
81-Tl-182



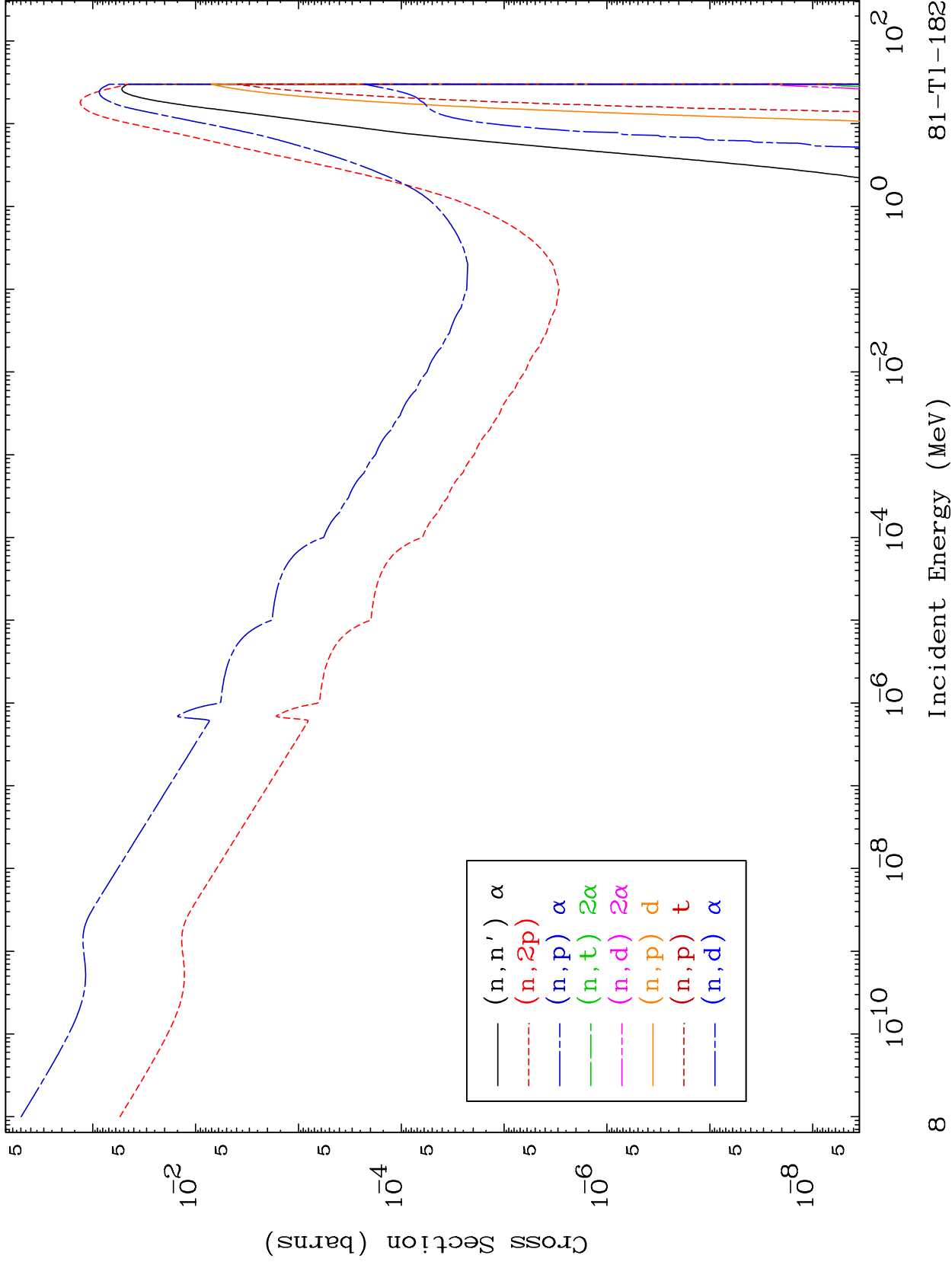
MAT 8062

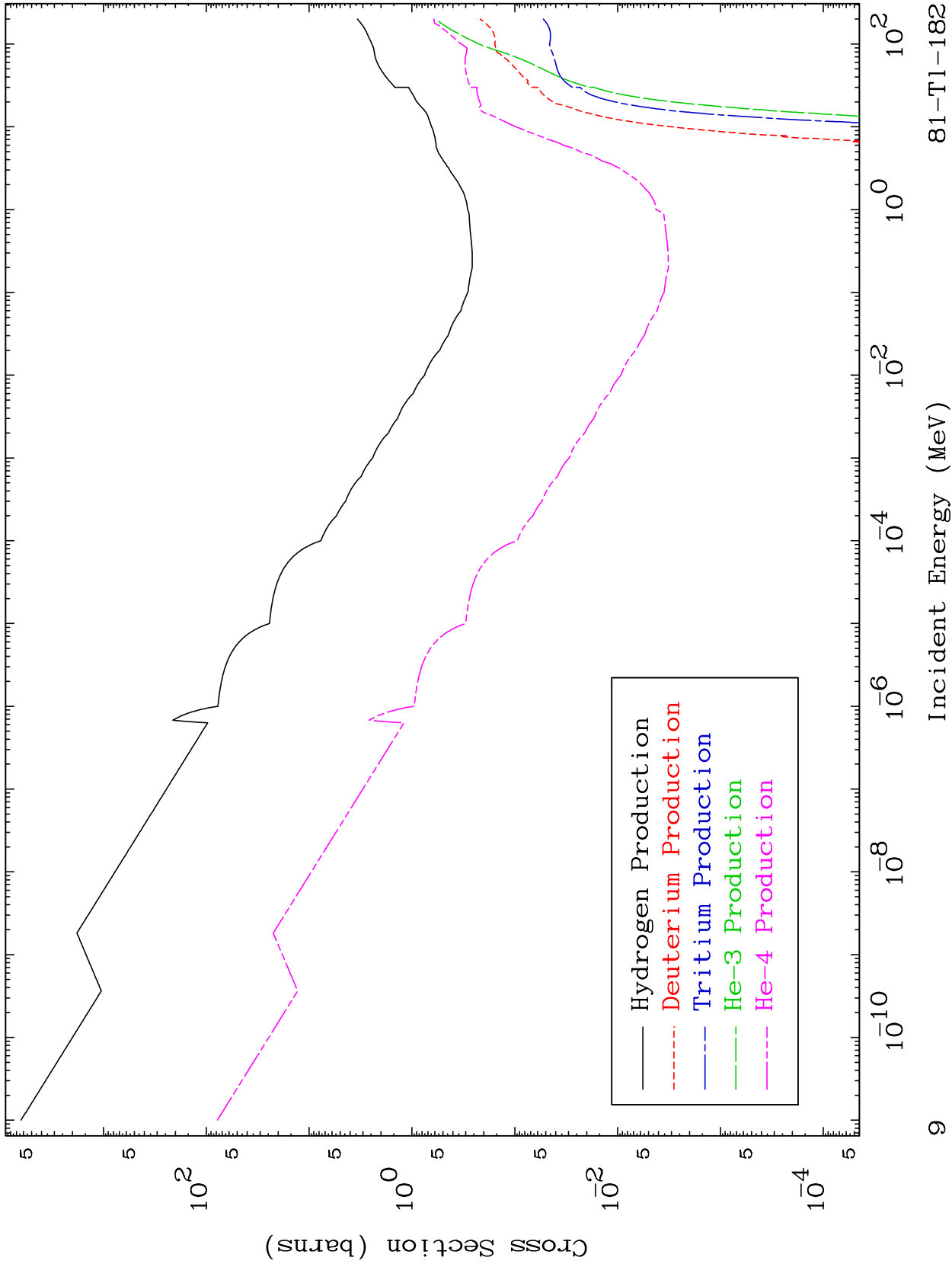
Charged Particle  
293 Kelvin Cross Sections

81-Tl-182





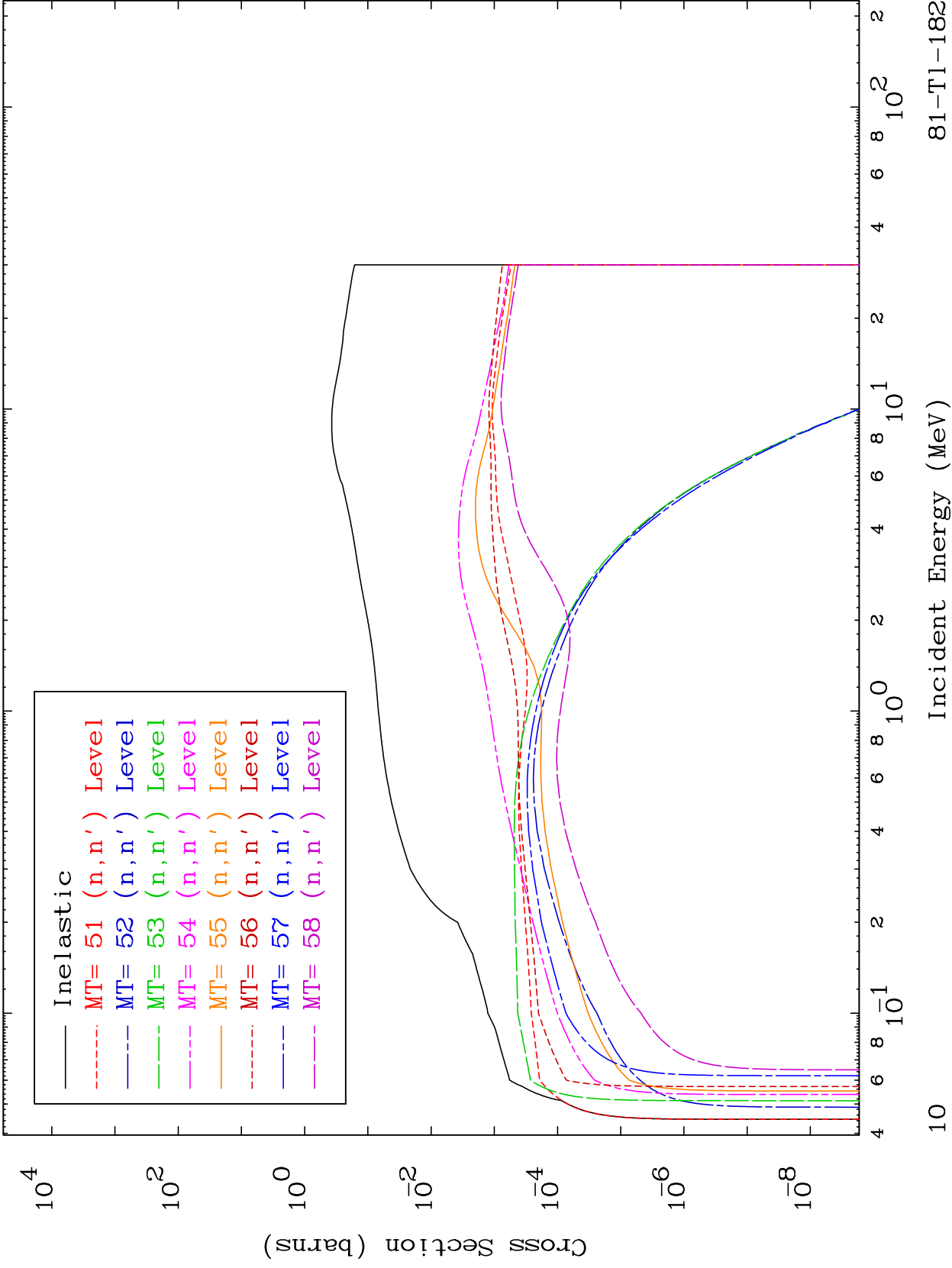




MAT 8062

(n,n') Levels  
293 Kelvin Cross Sections

81-Tl-182



10

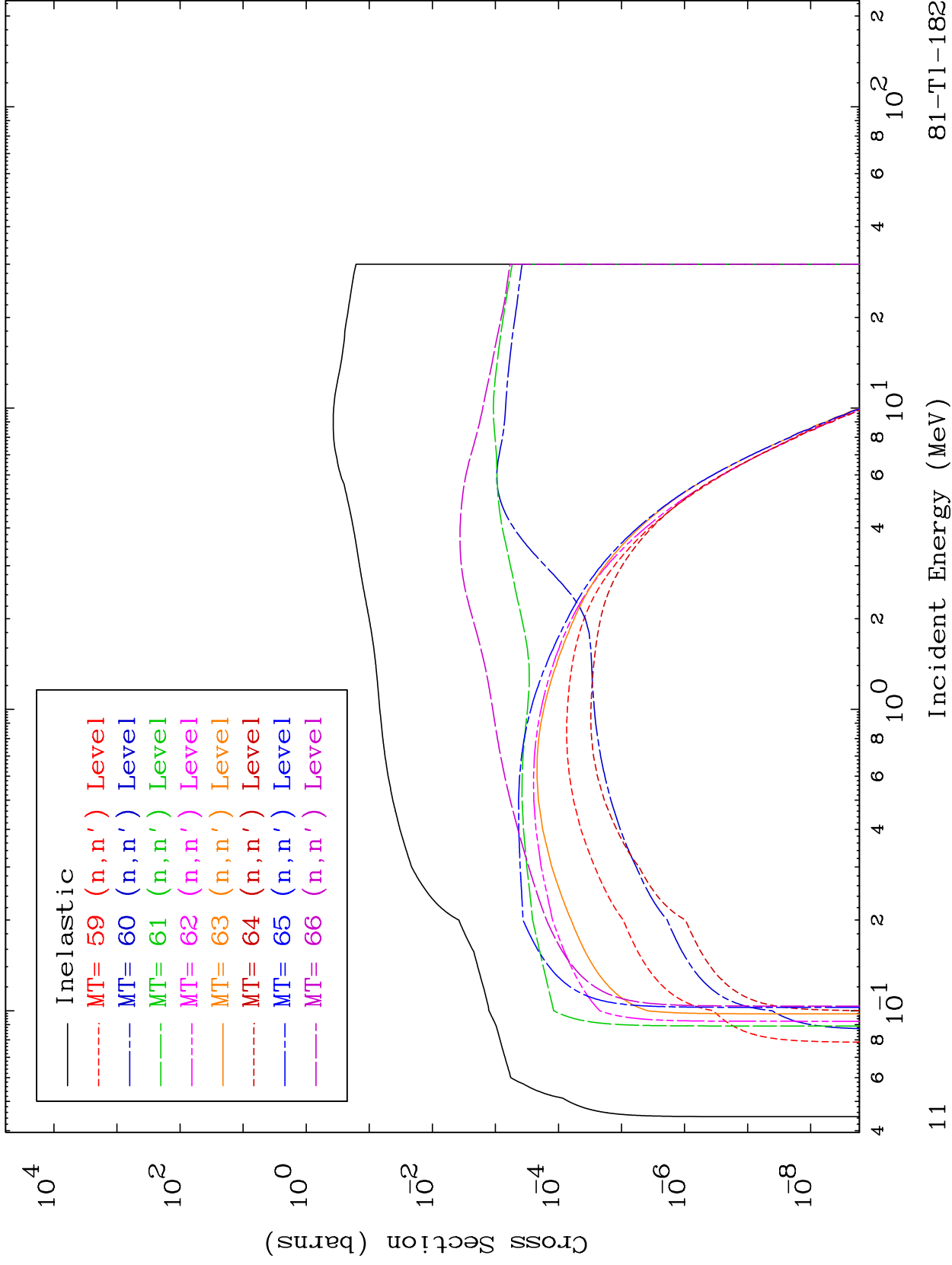
Incident Energy (MeV)

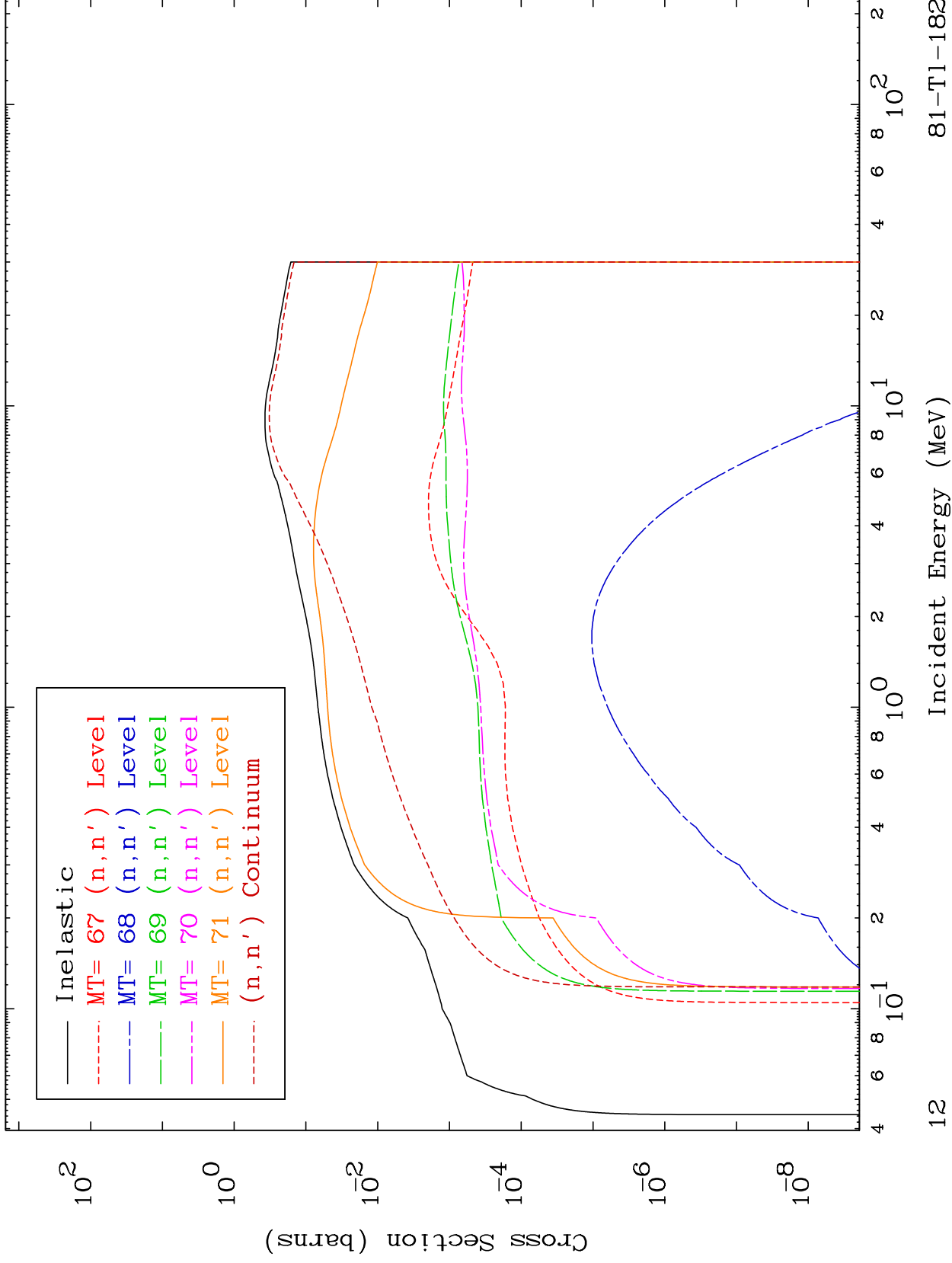
81-Tl-182

MAT 8062

293 Kelvin Cross Sections  
(n,n') Levels

81-Tl-182

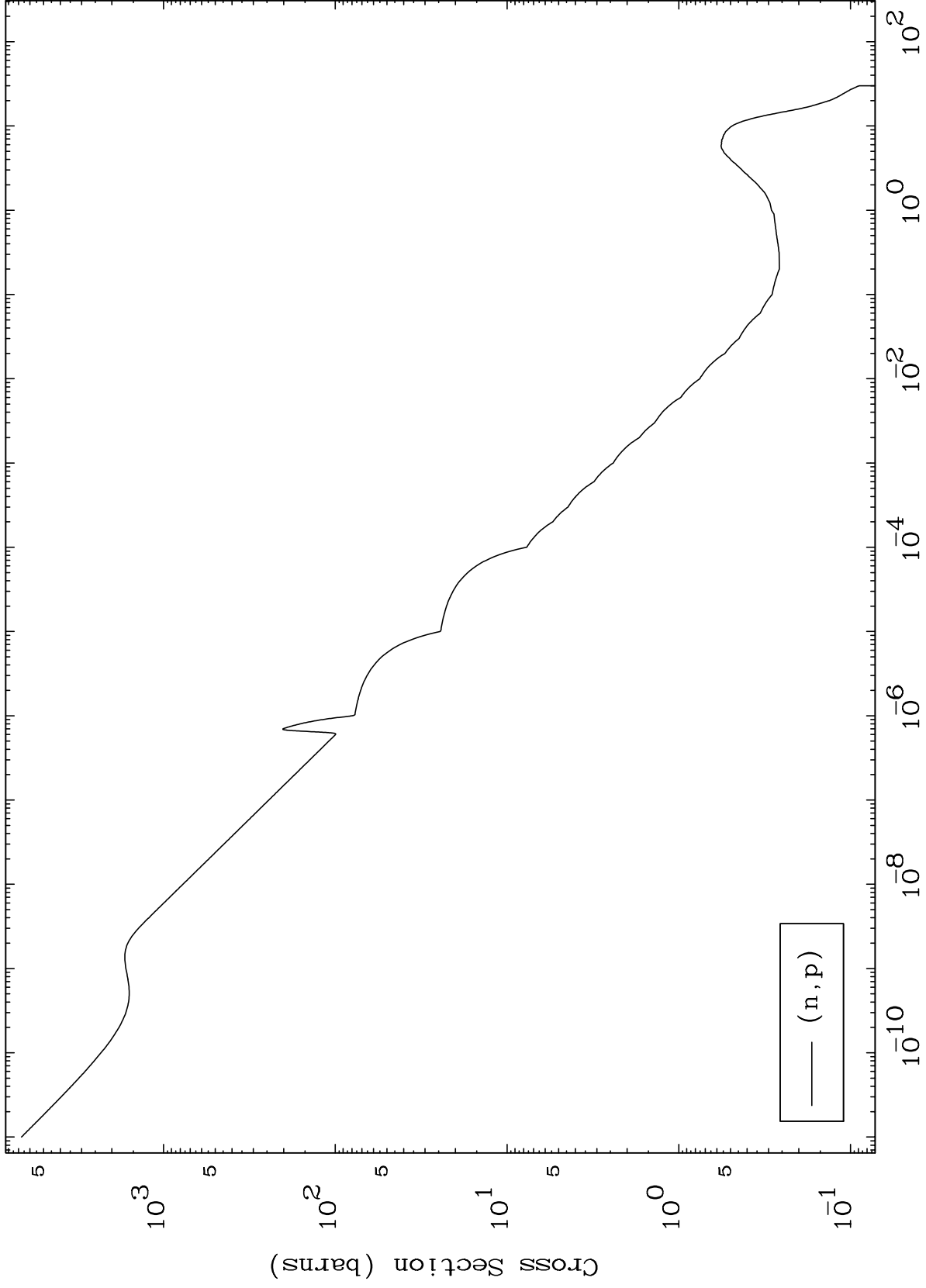




MAT 8062

(n,p) Levels  
293 Kelvin Cross Sections

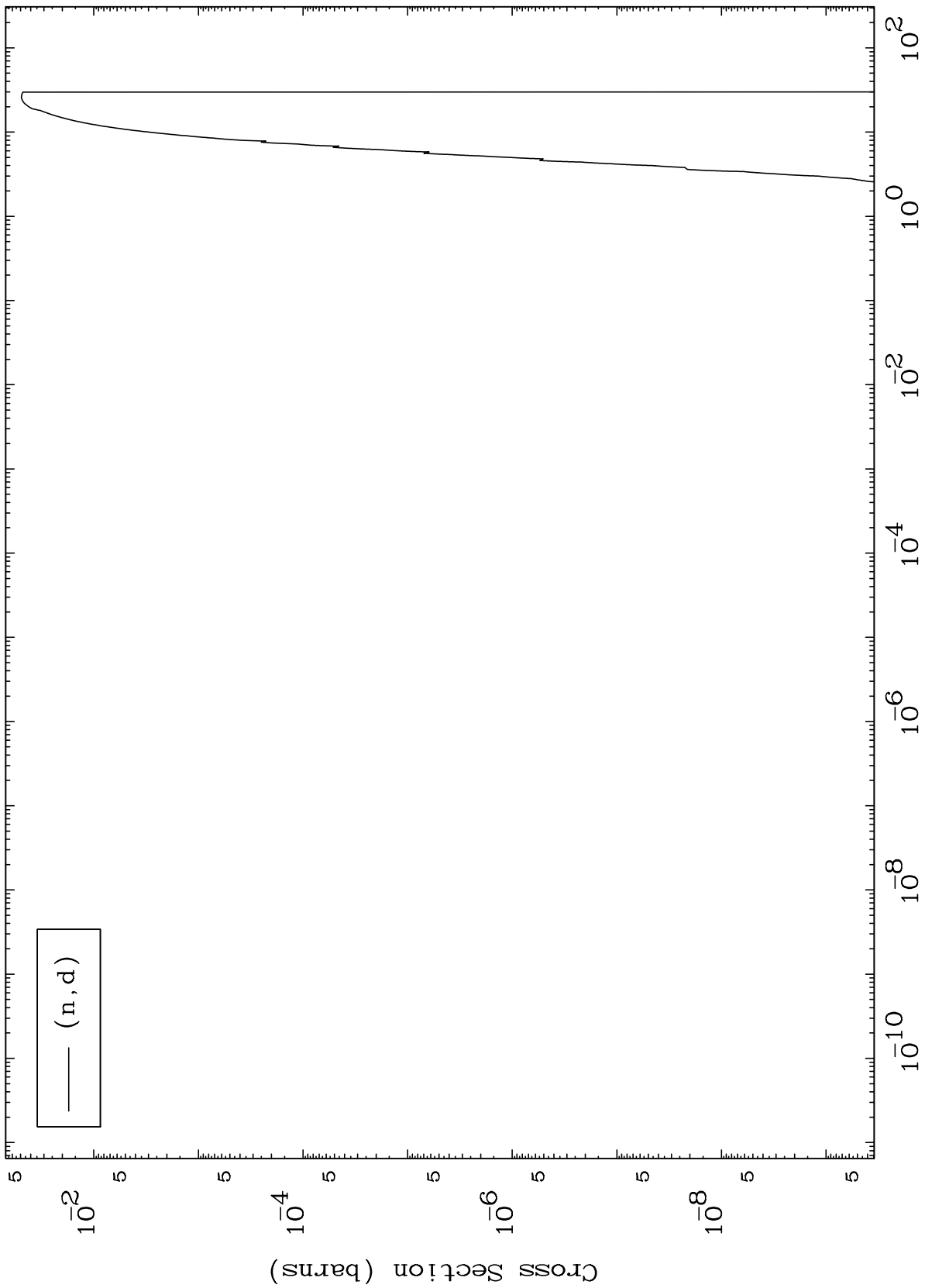
81-Tl-182



MAT 8062

(n,d) Levels  
293 Kelvin Cross Sections

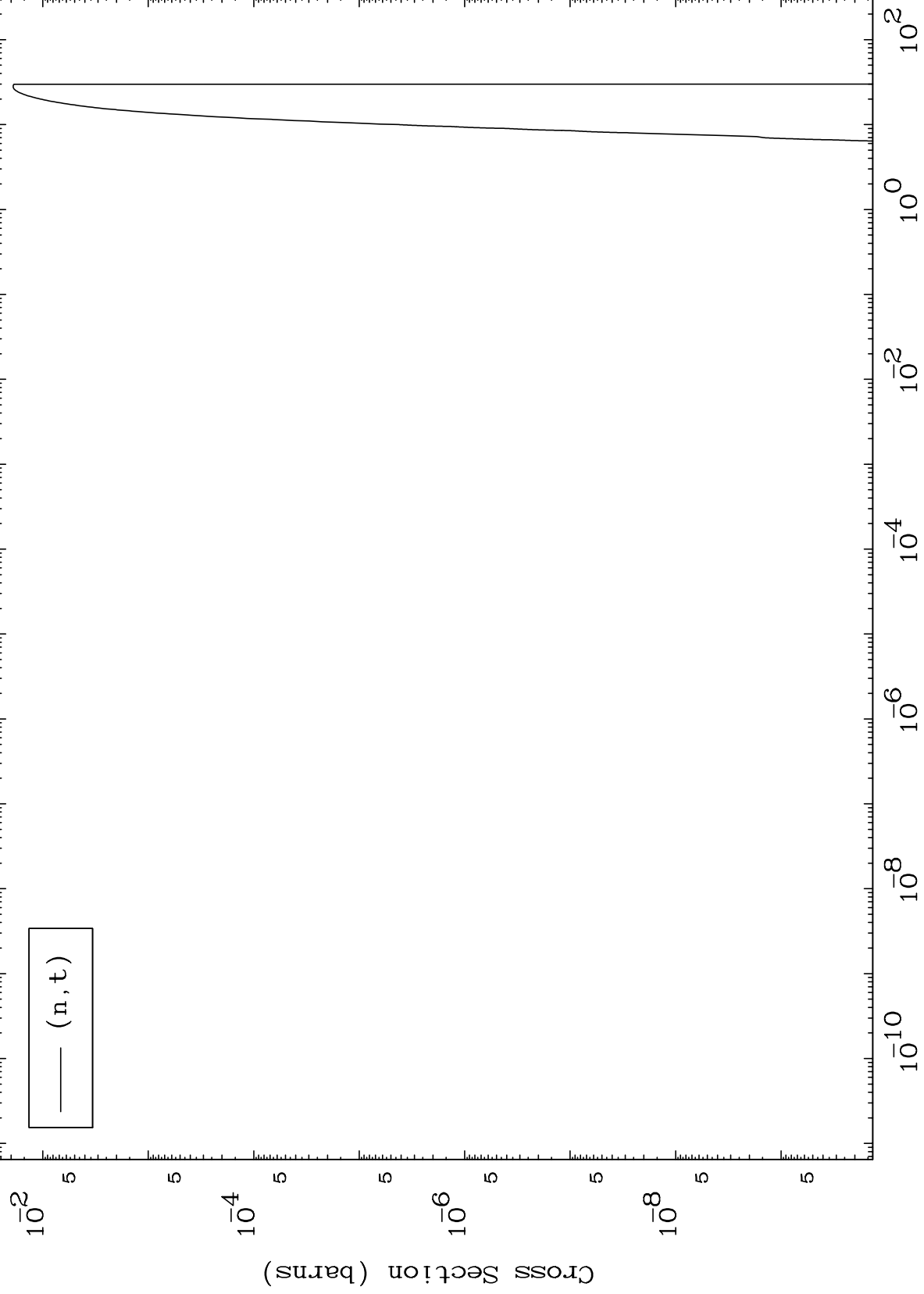
81-Tl-182



MAT 8062

(n,t) Levels  
293 Kelvin Cross Sections

81-Tl-182



15

Incident Energy (MeV)

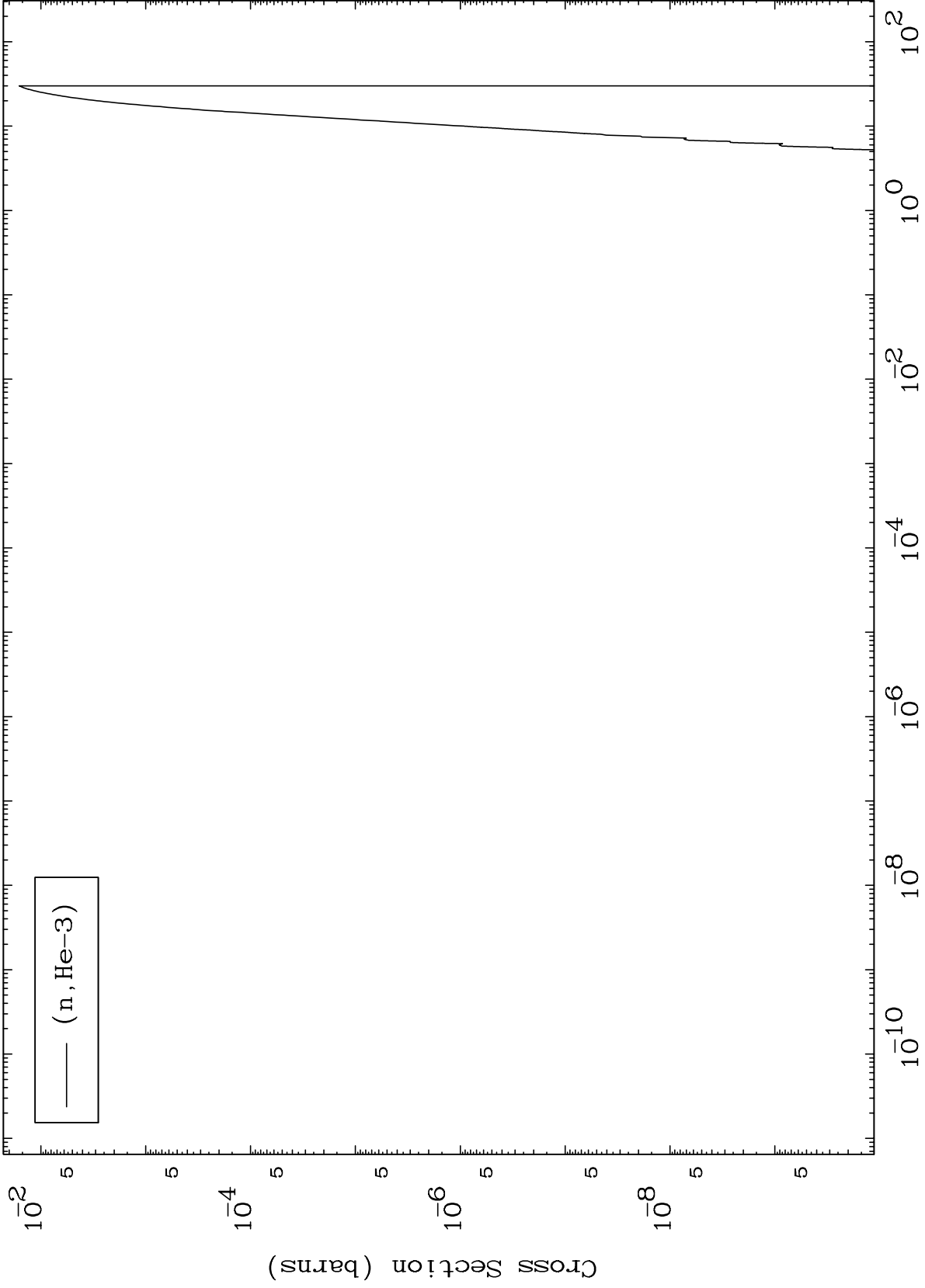
81-Tl-182



MAT 8062

(n,He3) Levels  
293 Kelvin Cross Sections

81-T1-182



16

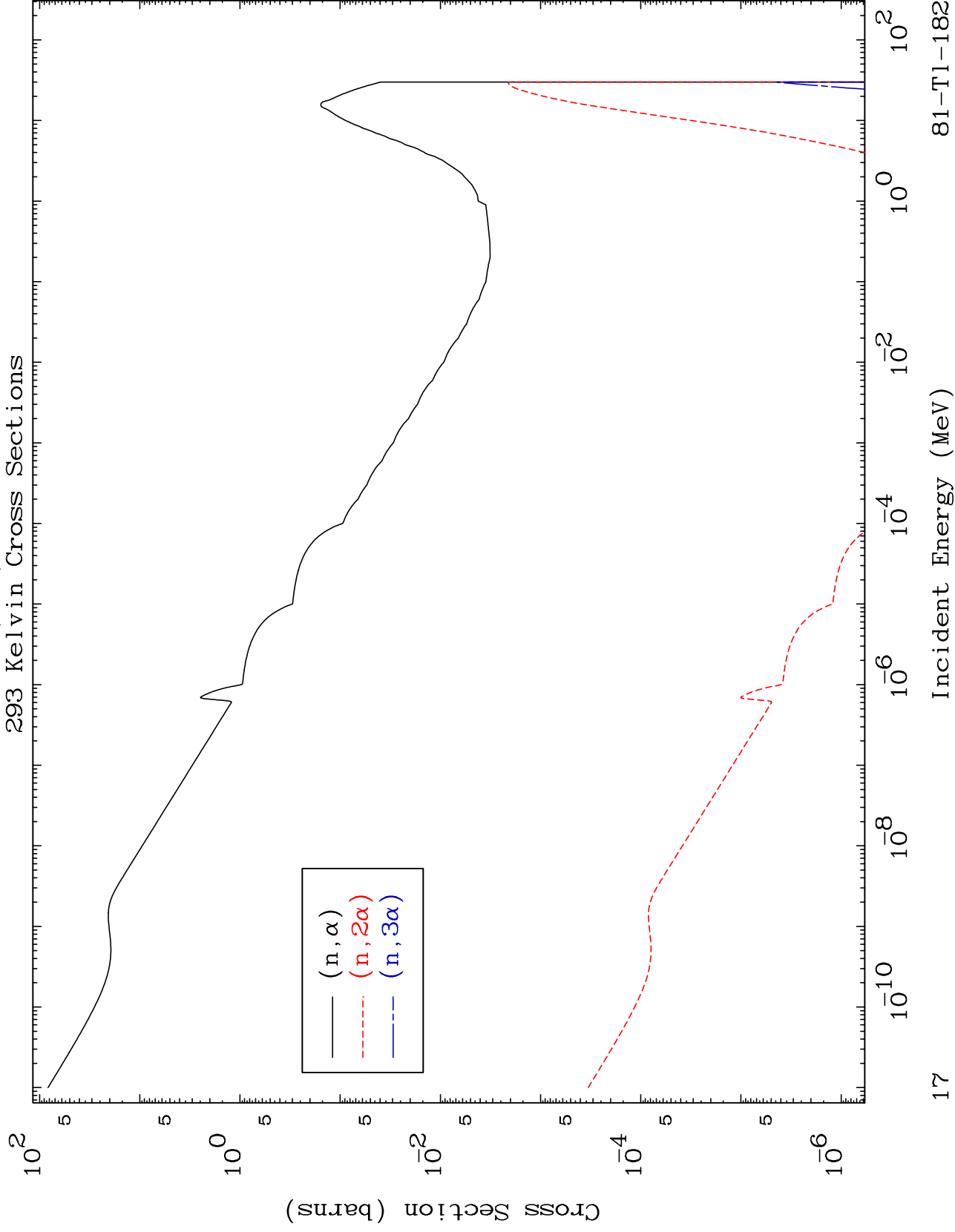
Incident Energy (MeV)

81-T1-182

MAT 8062

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

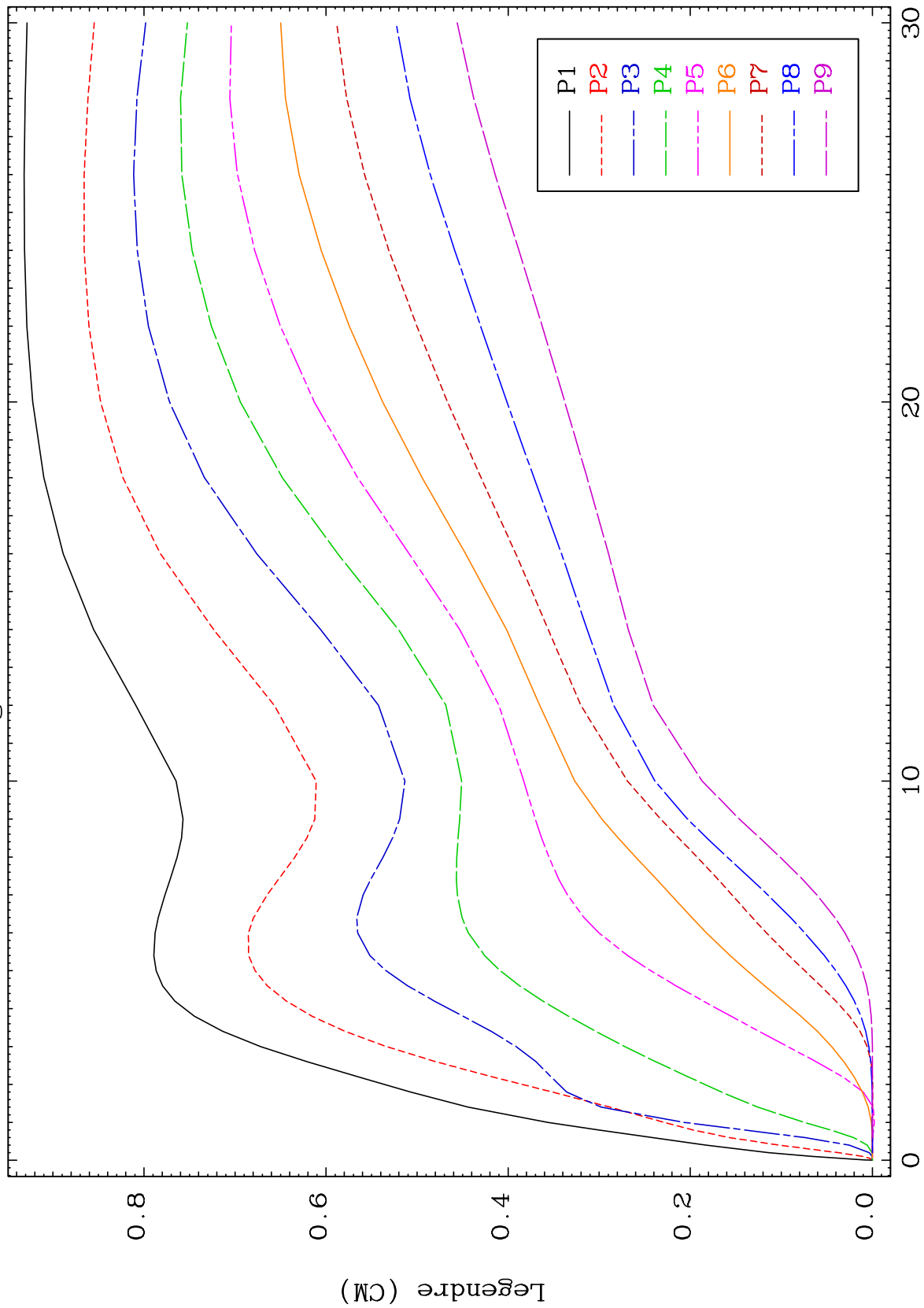
81-Tl-182



MAT 8062

Elastic Legendre Coefficients

81-Tl-182



18

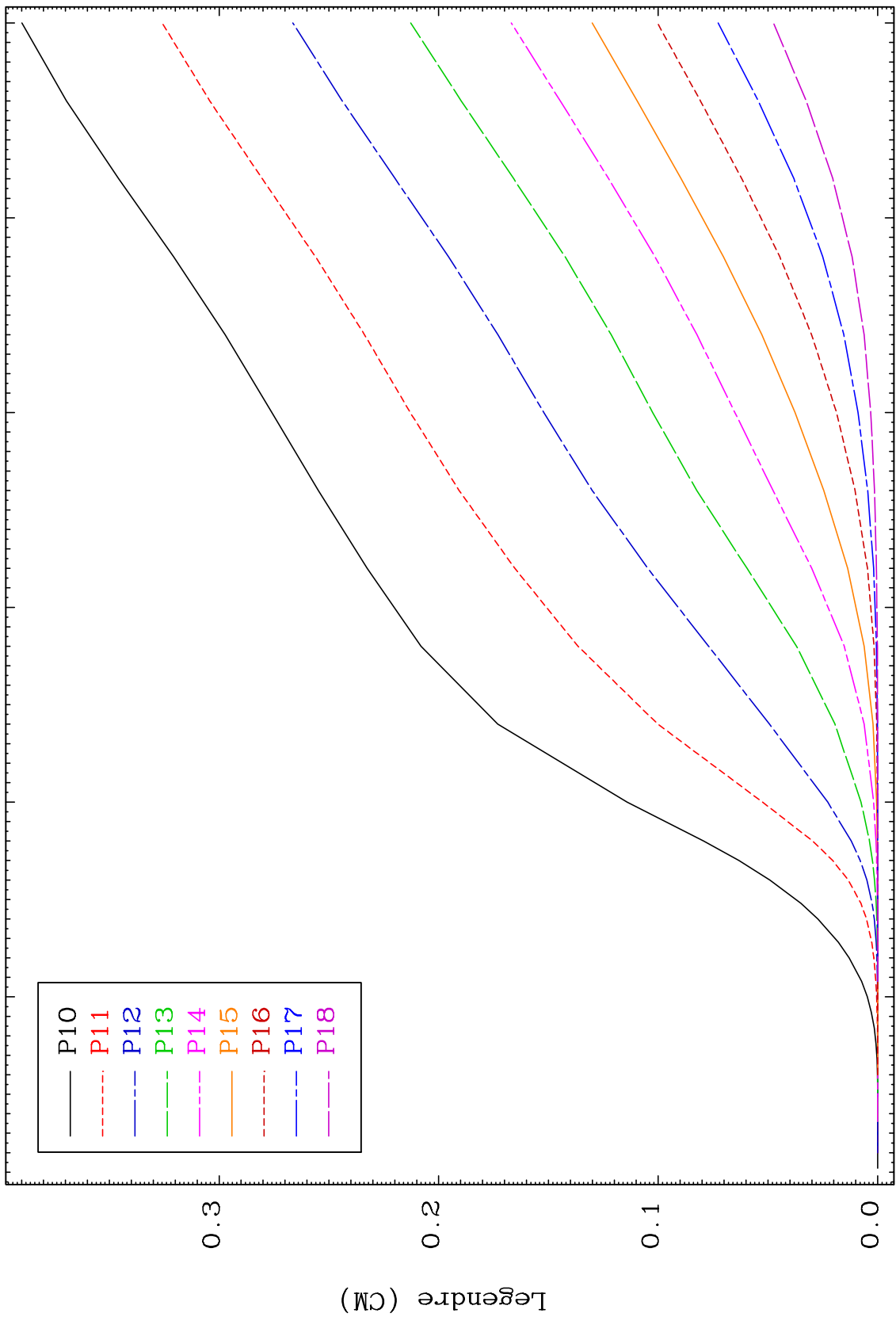
Incident Energy (MeV)

81-Tl-182

MAT 8062

Elastic Legendre Coefficients

81-Tl-182



19

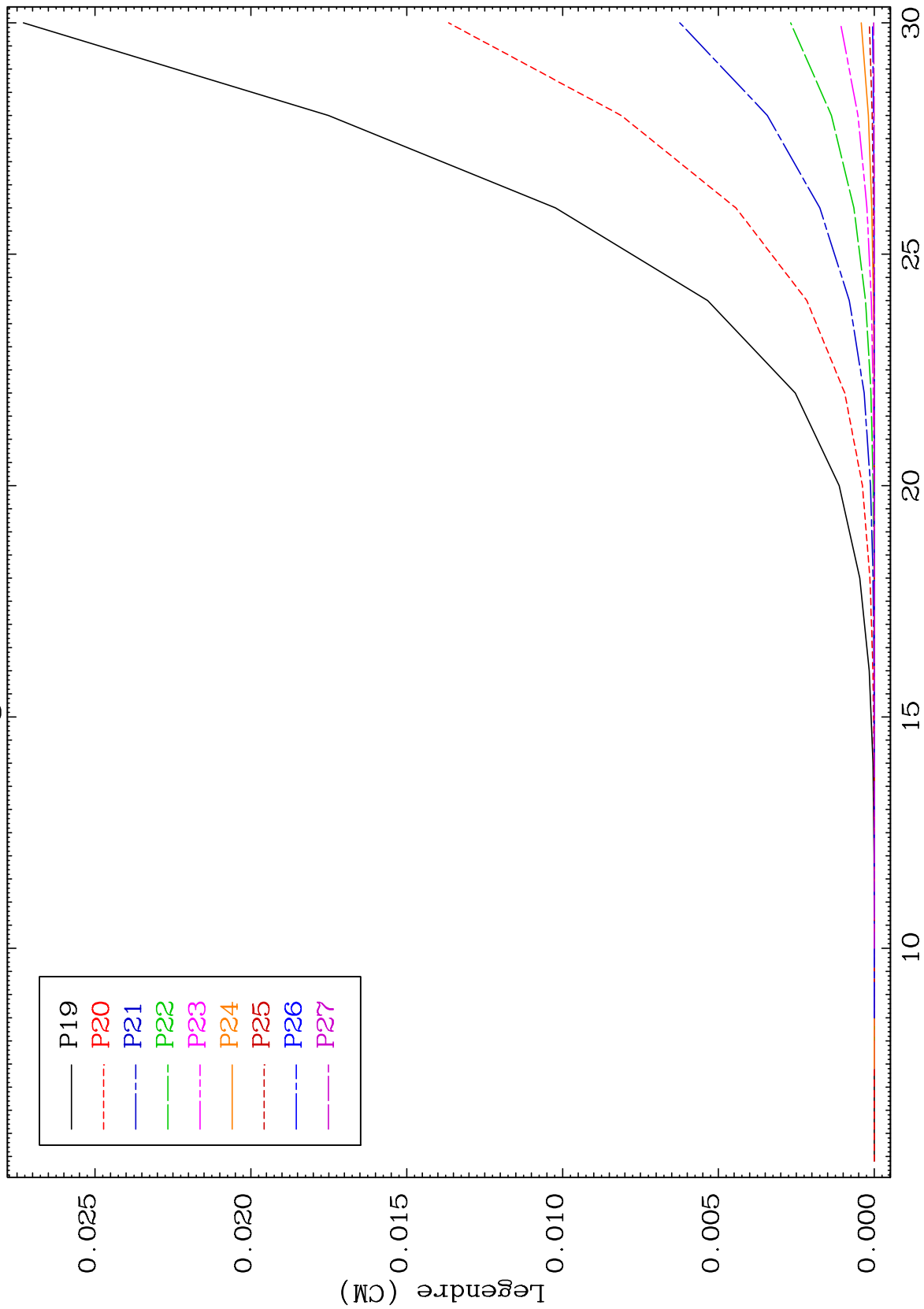
Incident Energy (MeV)

81-Tl-182

MAT 8062

### Elastic Legendre Coefficients

81-T1-182



20

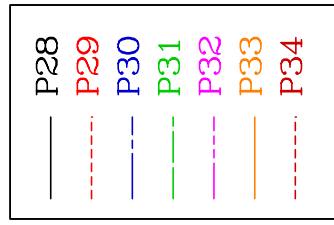
Incident Energy (MeV)

81-T1-182

MAT 8062

Elastic  
Legendre Coefficients

81-T1-182



$\times 10^{-6}$

6

4

2

0

Legendre (CM)

15

20

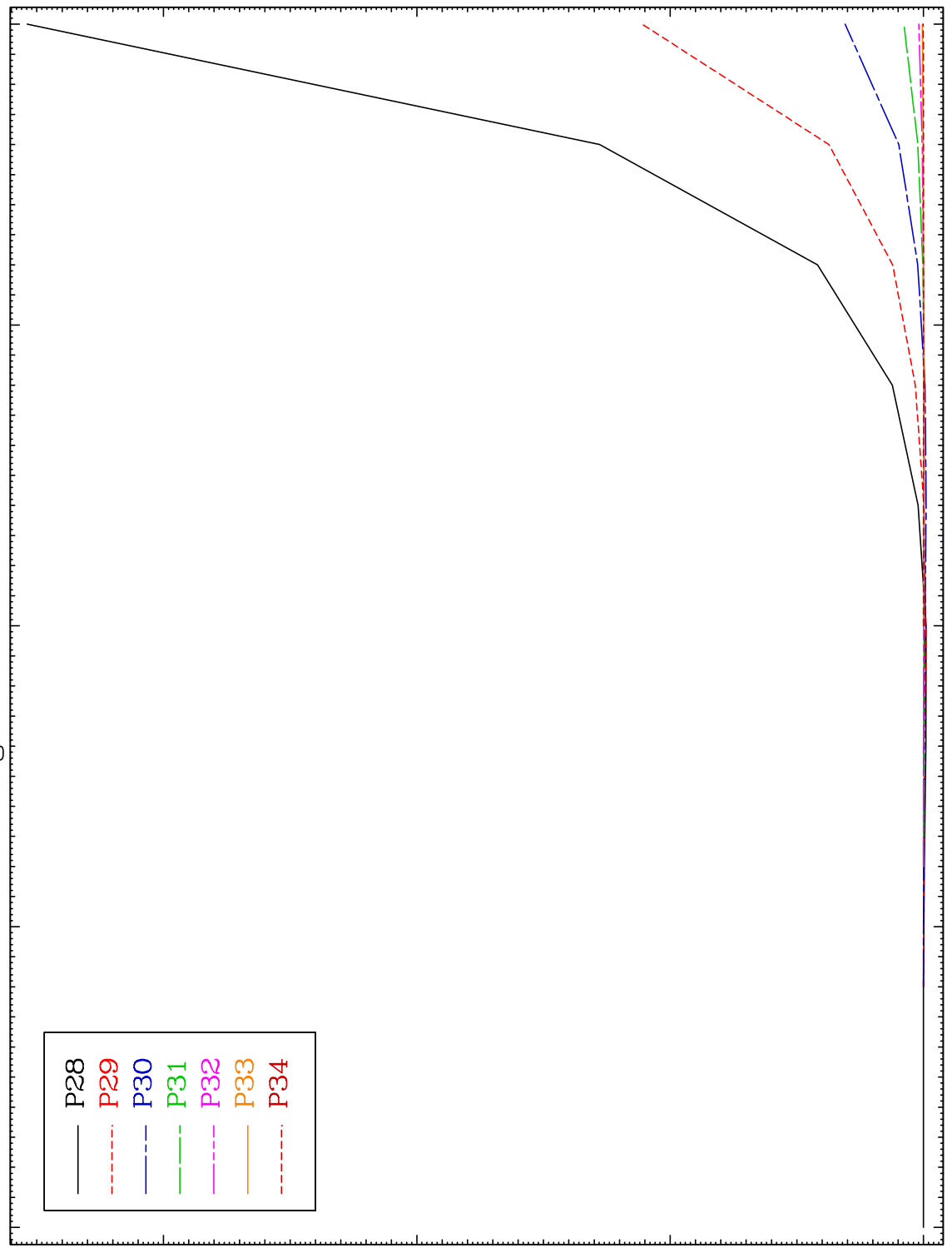
25

30

21

Incident Energy (MeV)

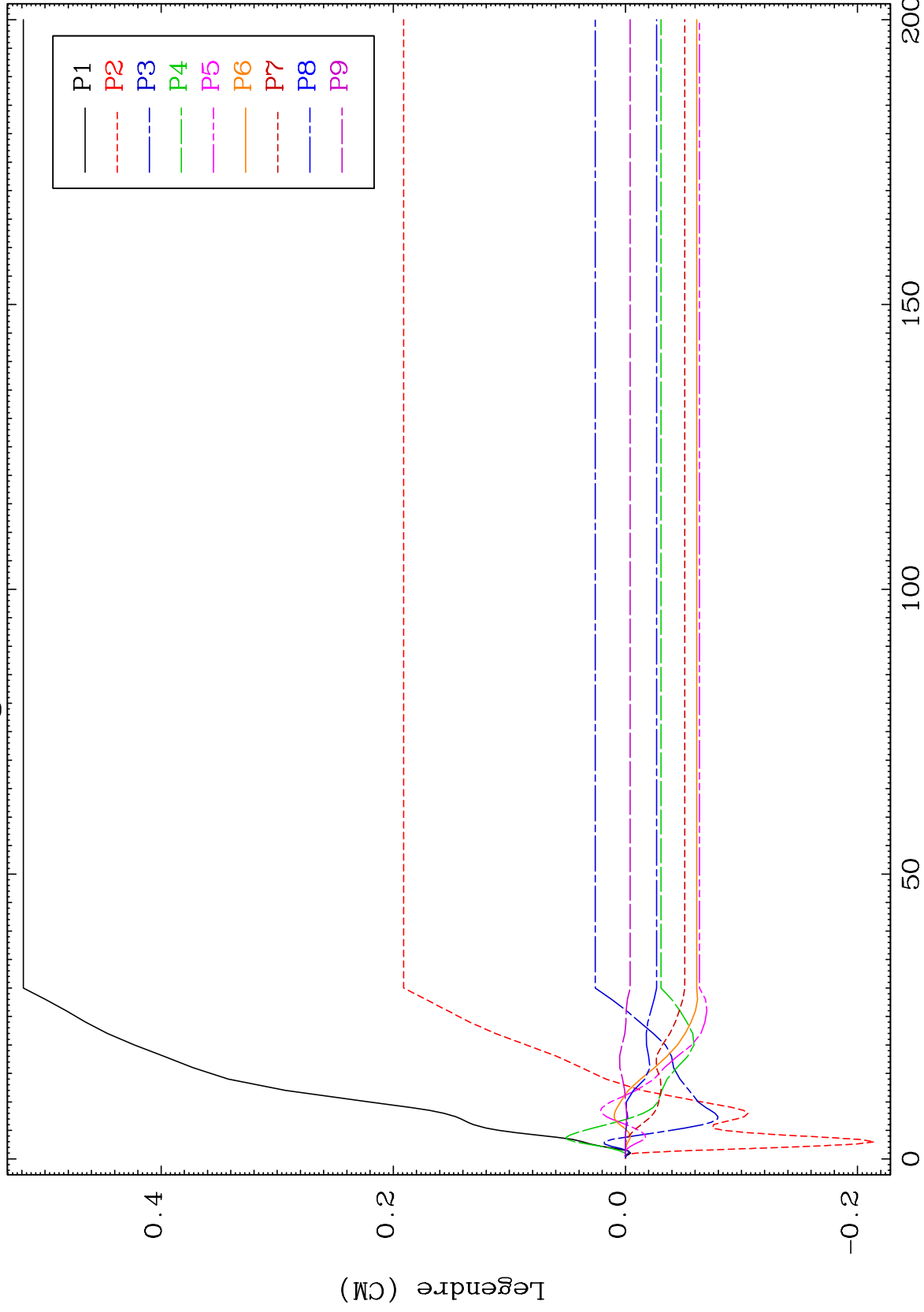
81-T1-182



MAT 8062

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

81-T1-182



22

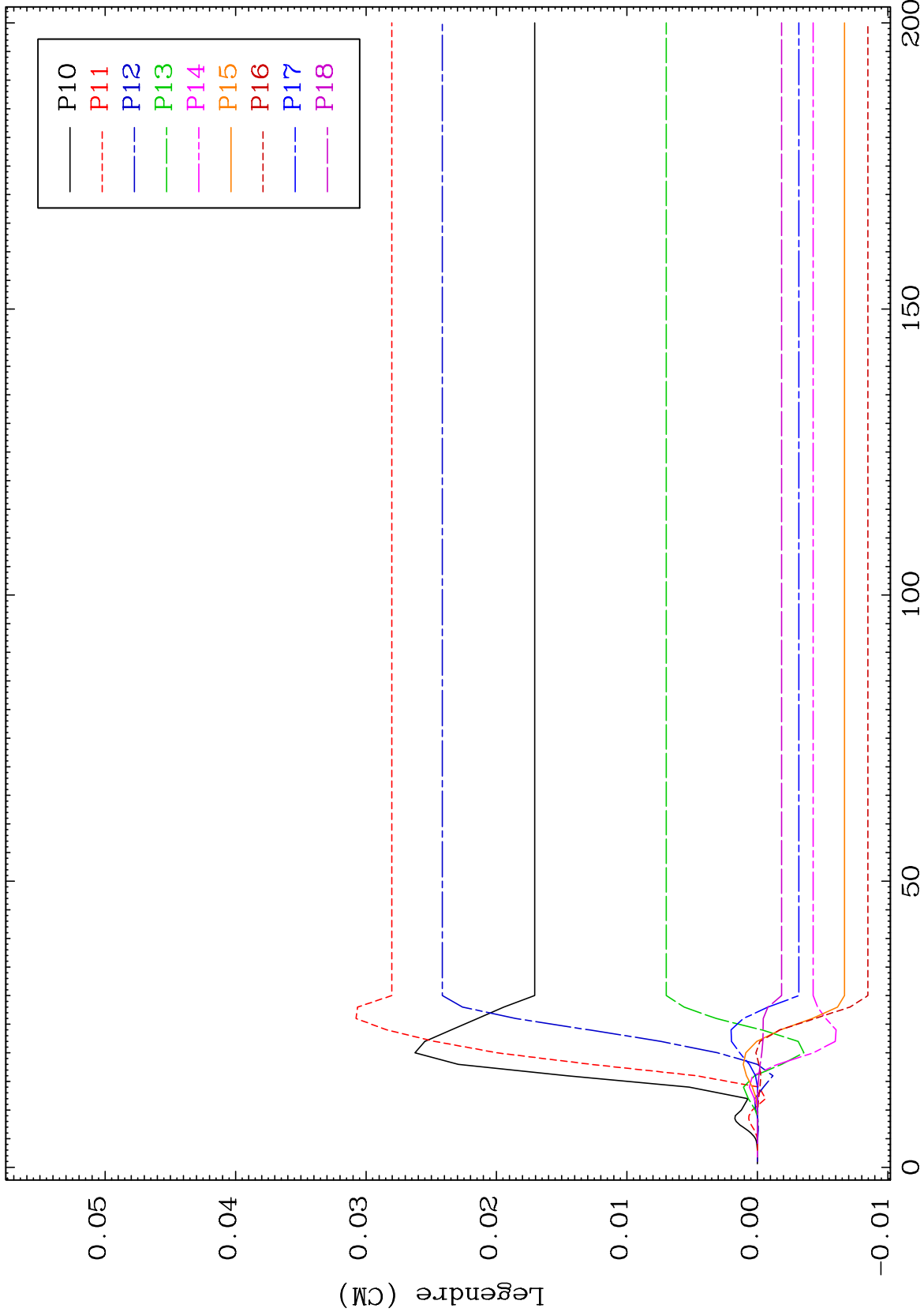
Incident Energy (MeV)

81-T1-182

MAT 8062

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

81-Tl-182



23

Incident Energy (MeV)

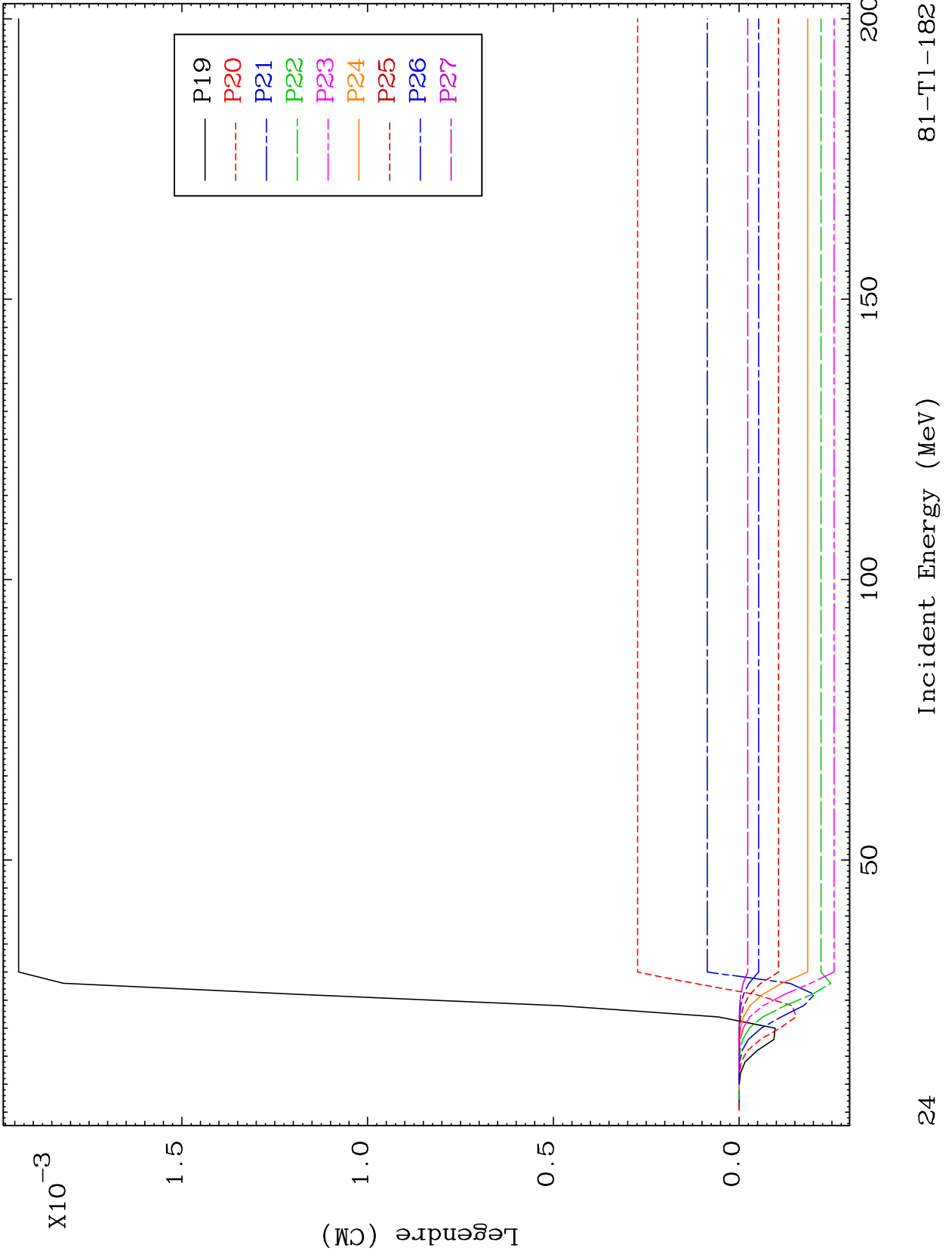
81-Tl-182



MAT 8062

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

81-Tl-182

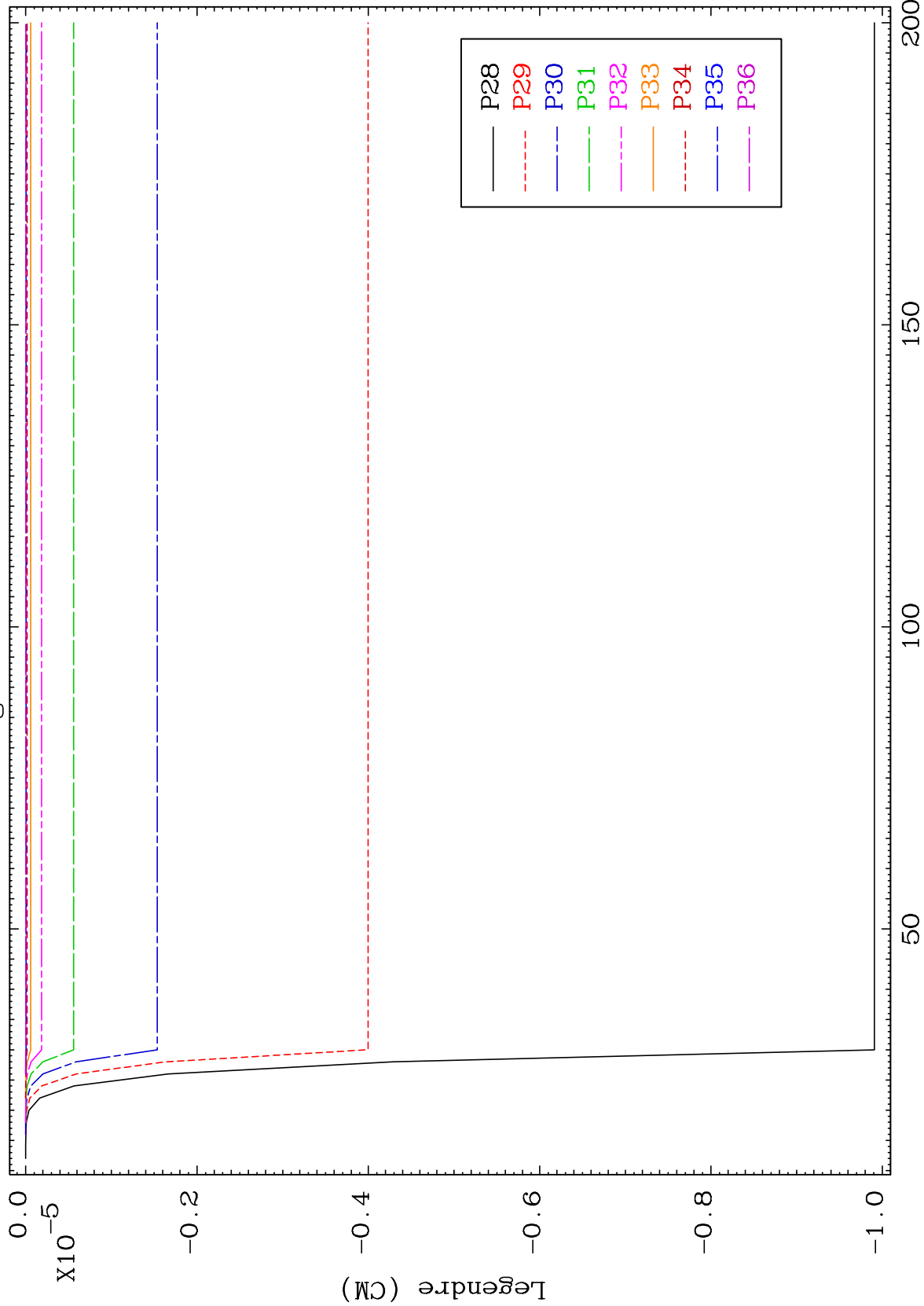


MAT 8062

MT= 51 (n,n') Level

81-Tl-182

Legendre Coefficients



81-Tl-182

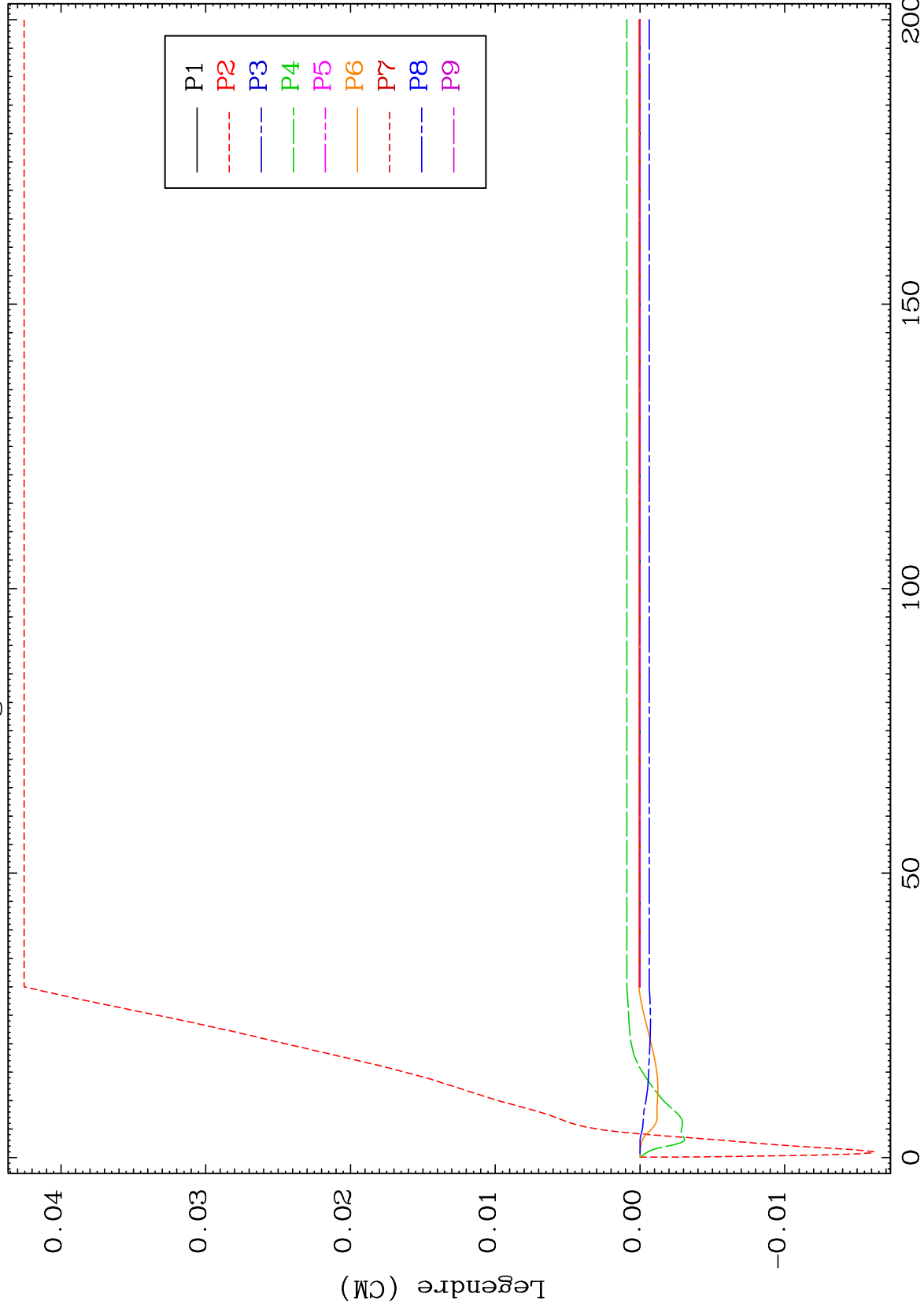
Incident Energy (MeV)

25

MAT 8062

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

81-T1-182



26

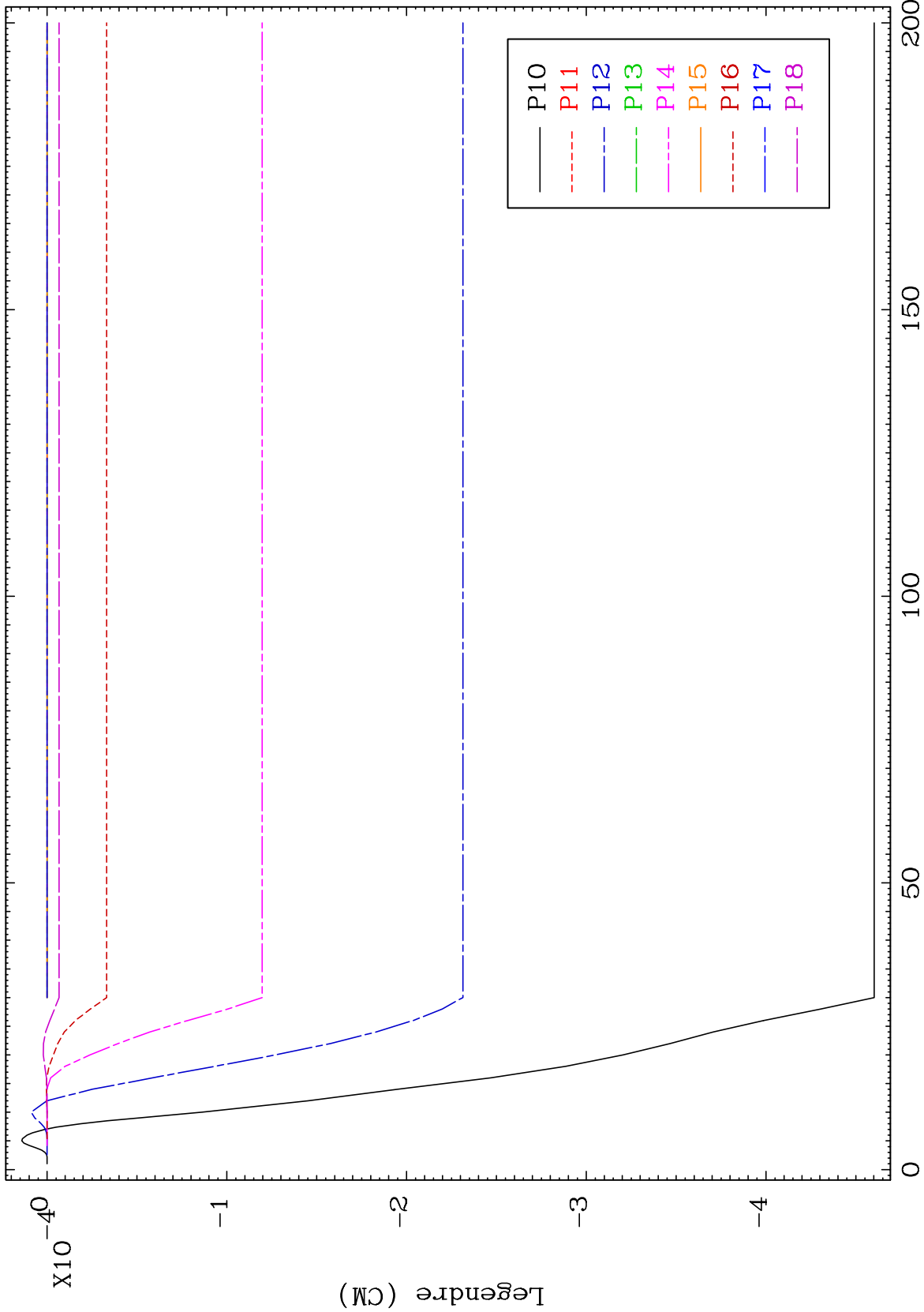
Incident Energy (MeV)

81-T1-182

MAT 8062

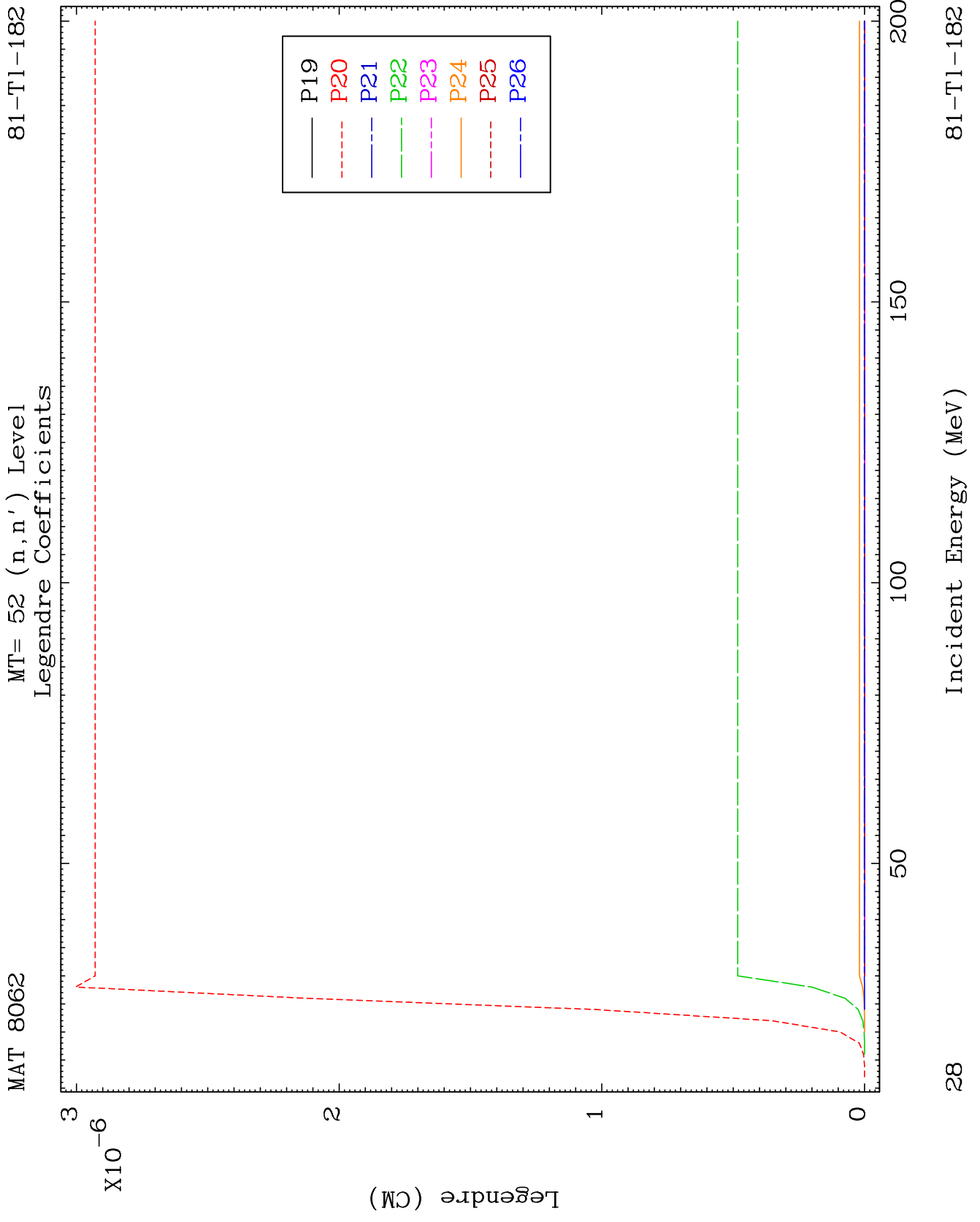
MT= 52 (n,n') Level  
Legendre Coefficients

81-Tl-182



27

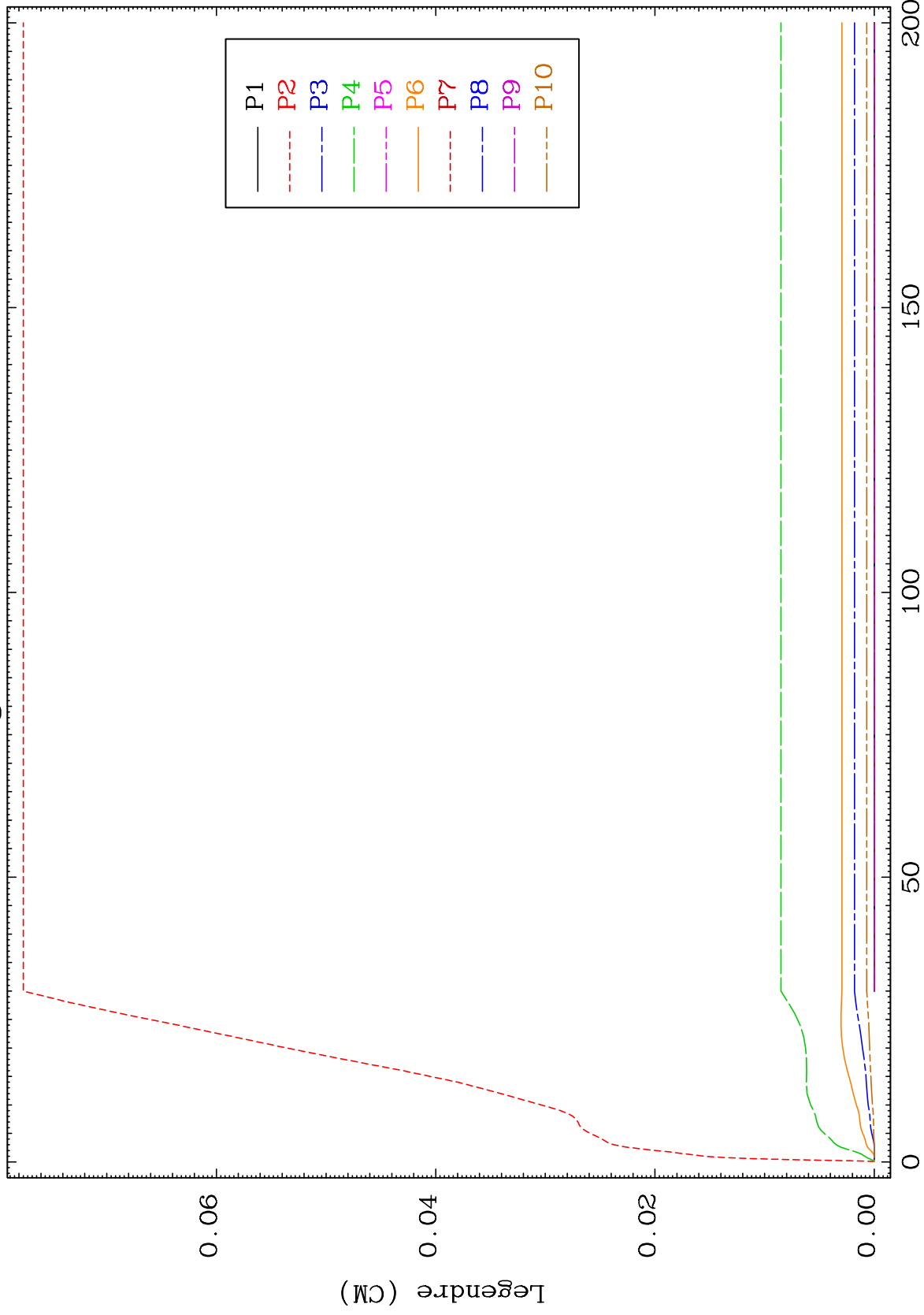
81-Tl-182



MAT 8062

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

81-T1-182



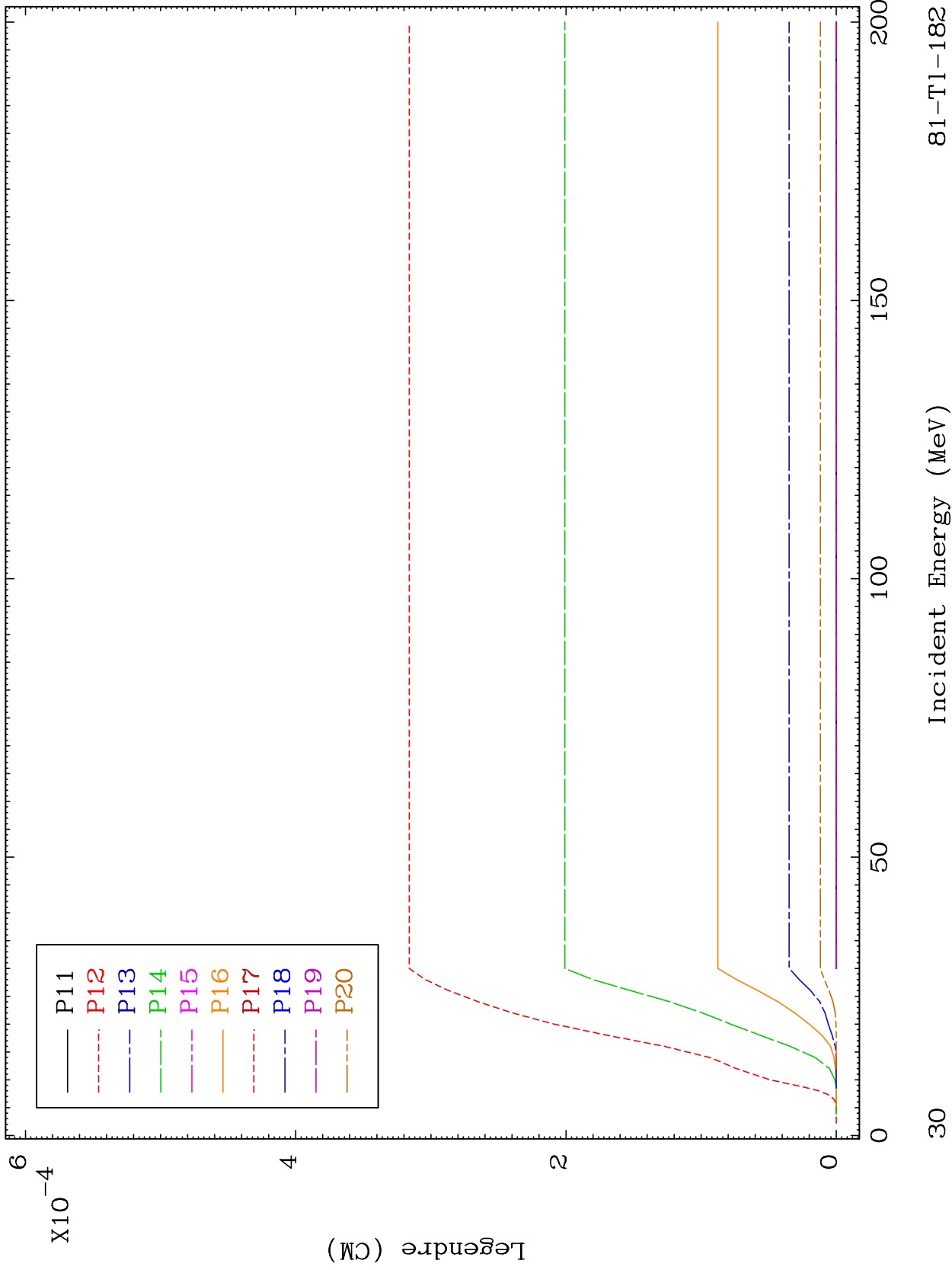
29

81-T1-182

MAT 8062

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

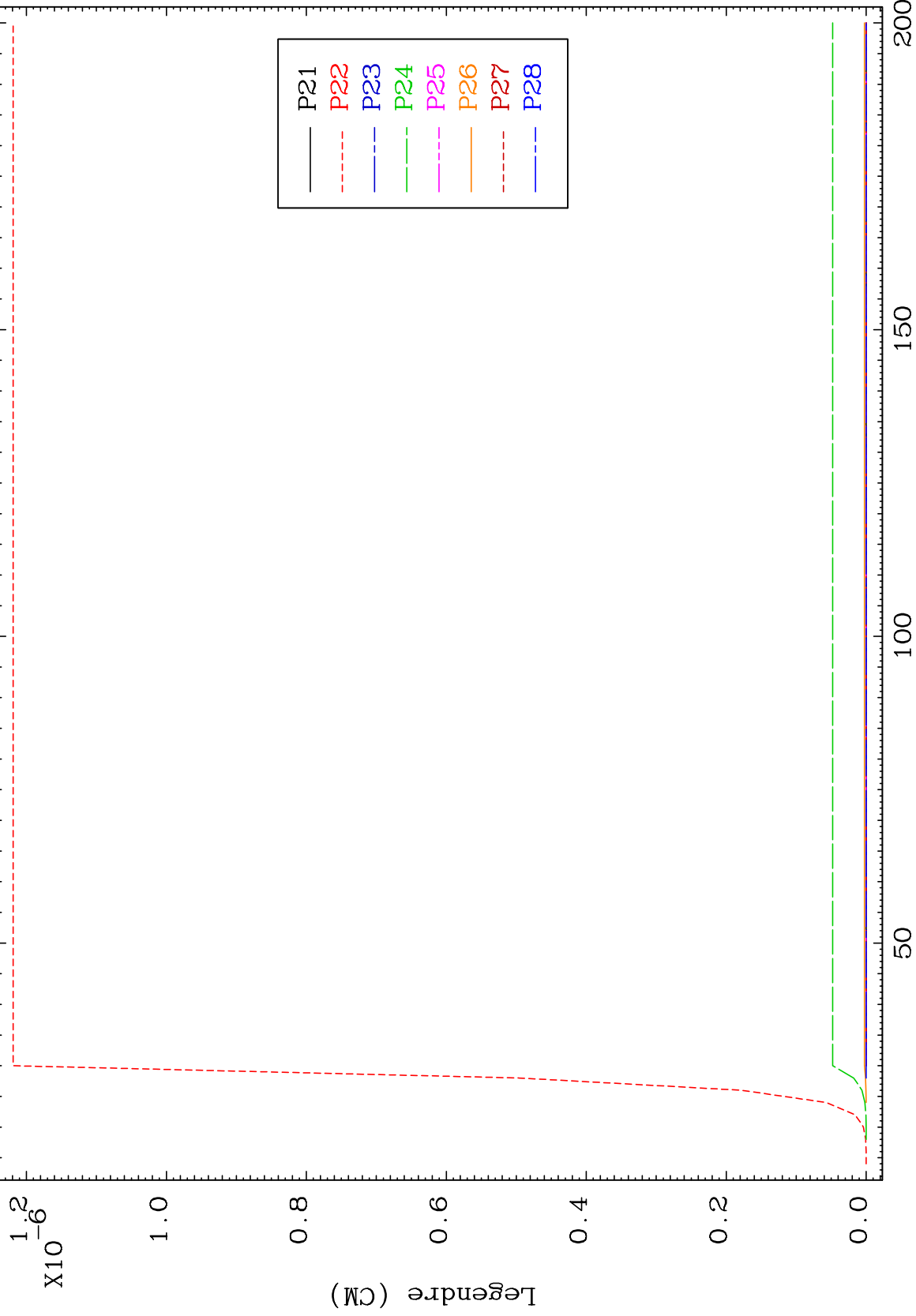
81-T1-182



MAT 8062

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

81-Tl-182



31

Incident Energy (MeV)

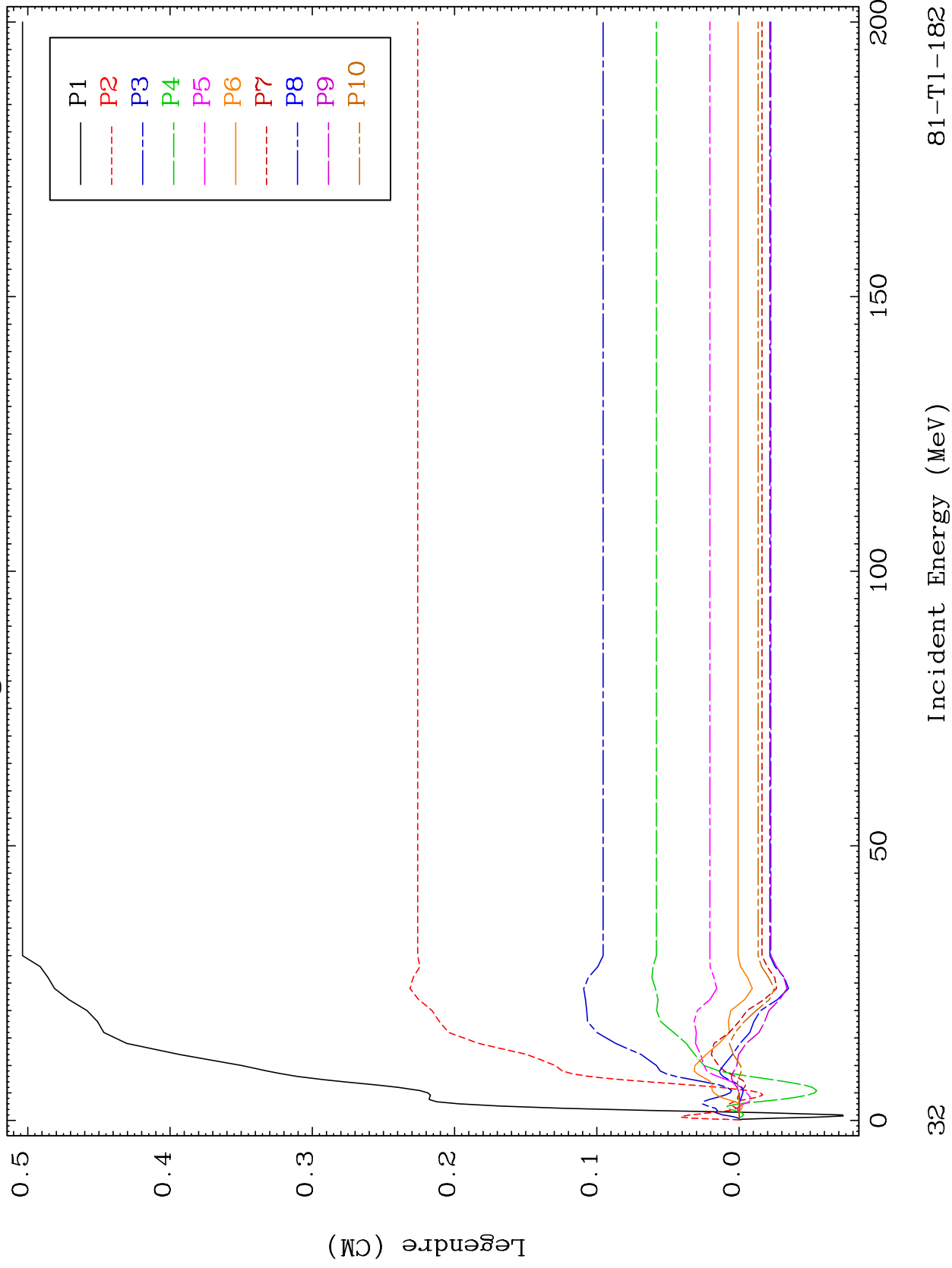
81-Tl-182



MAT 8062

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

81-Tl-182



81-Tl-182

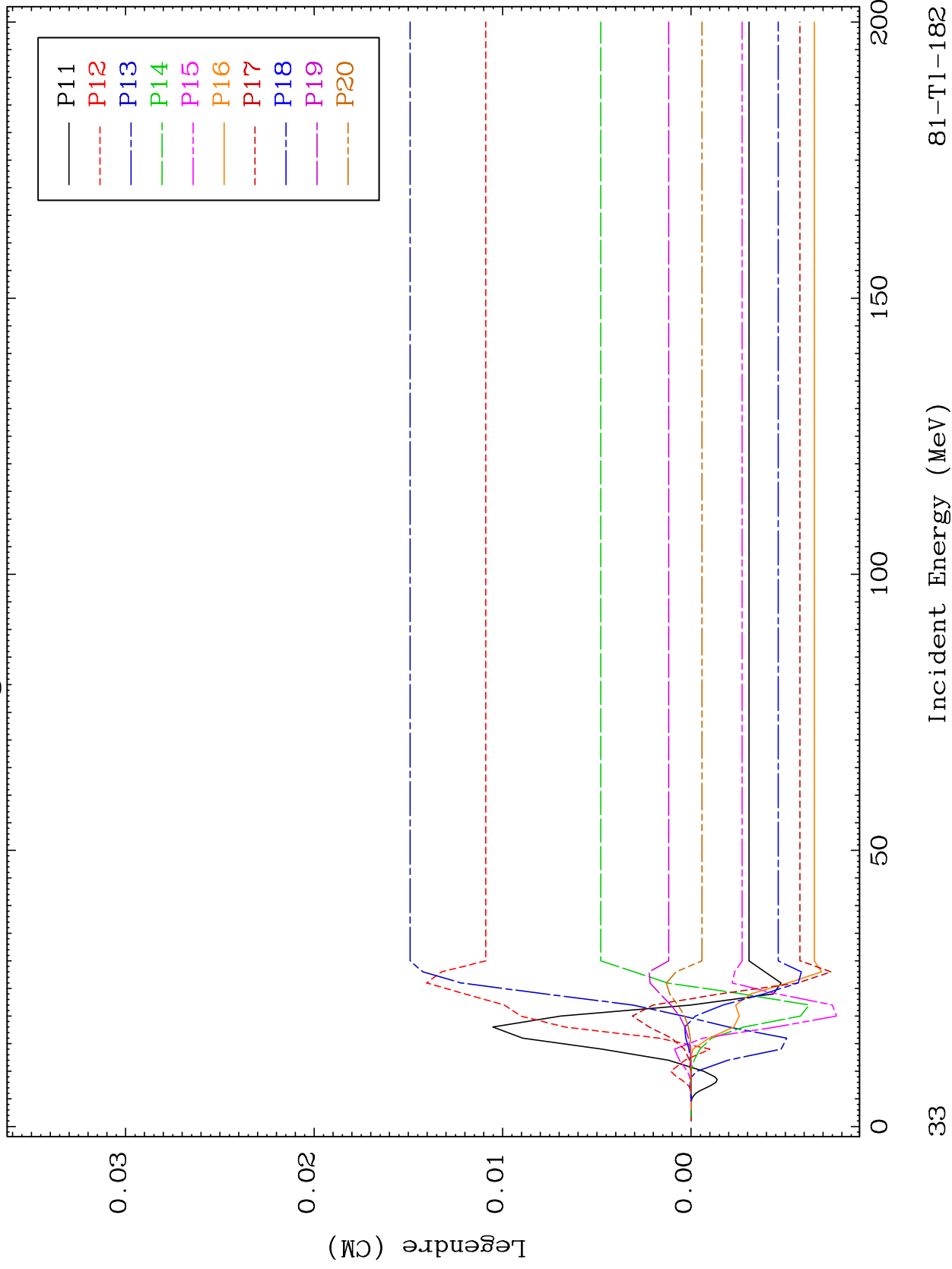
Incident Energy (MeV)

32

MAT 8062

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

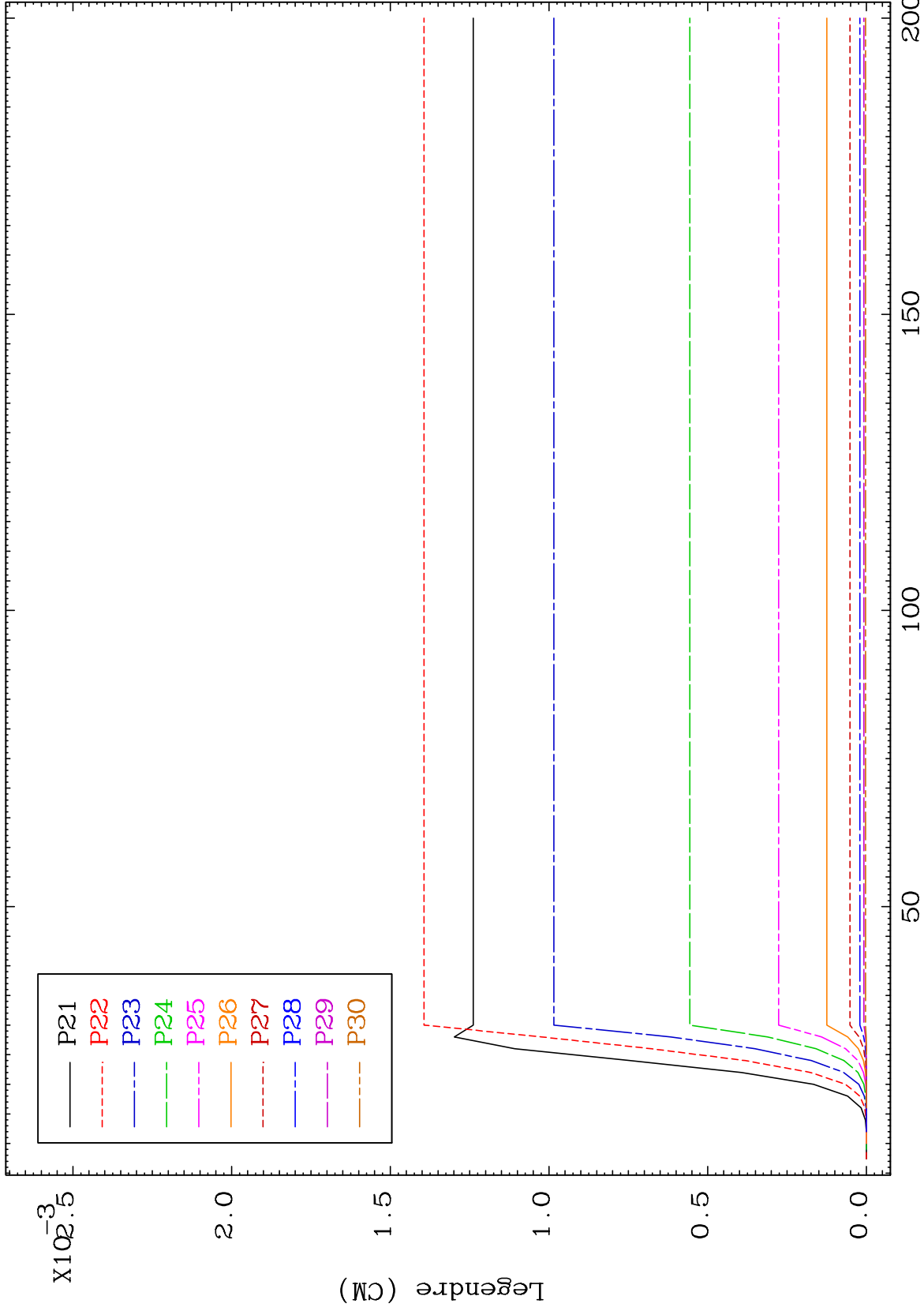
81-Tl-182



33

Incident Energy (MeV)

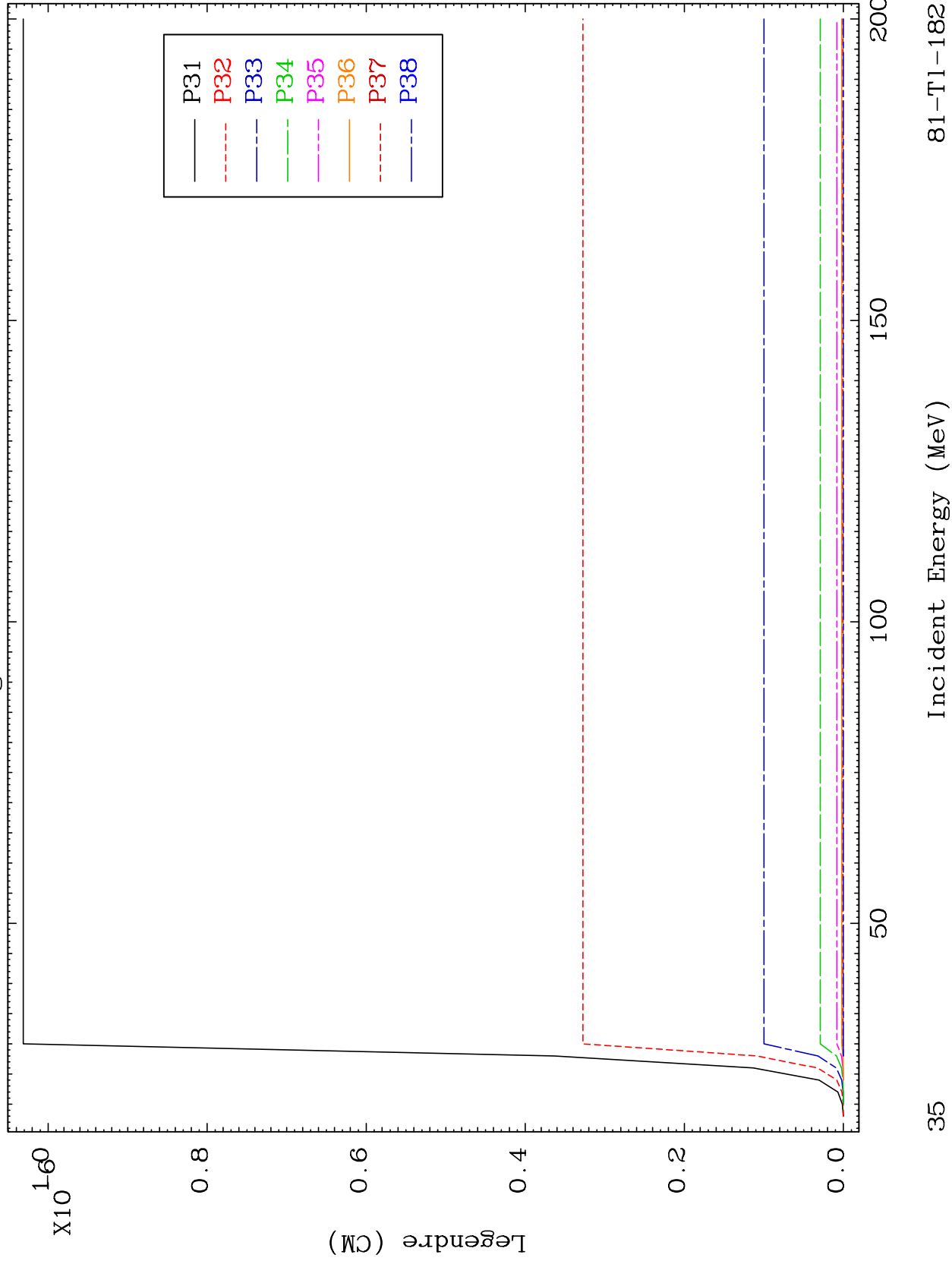
81-Tl-182



MAT 8062

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

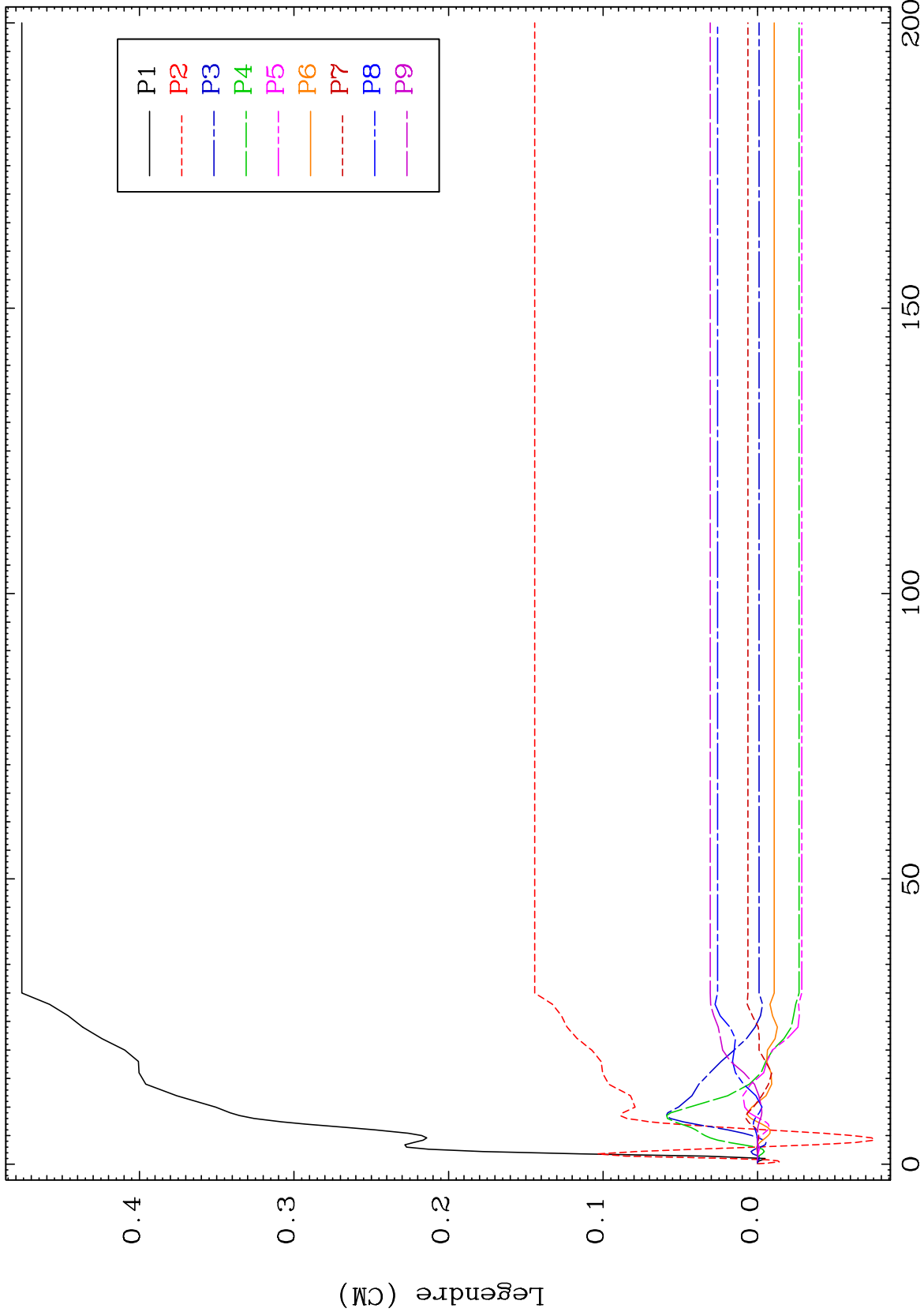
81-Tl-182



35

Incident Energy (MeV)

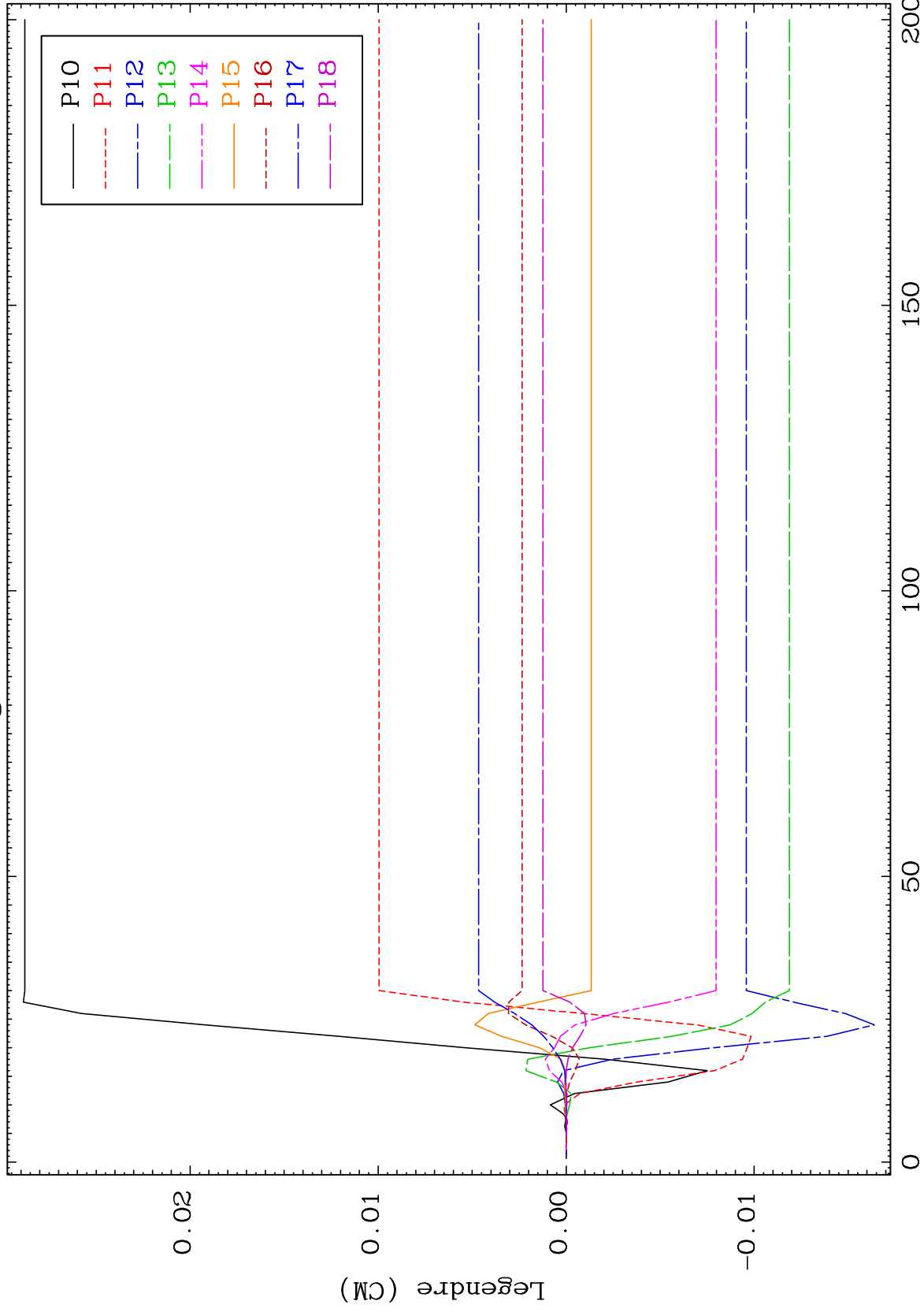
81-Tl-182



MAT 8062

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

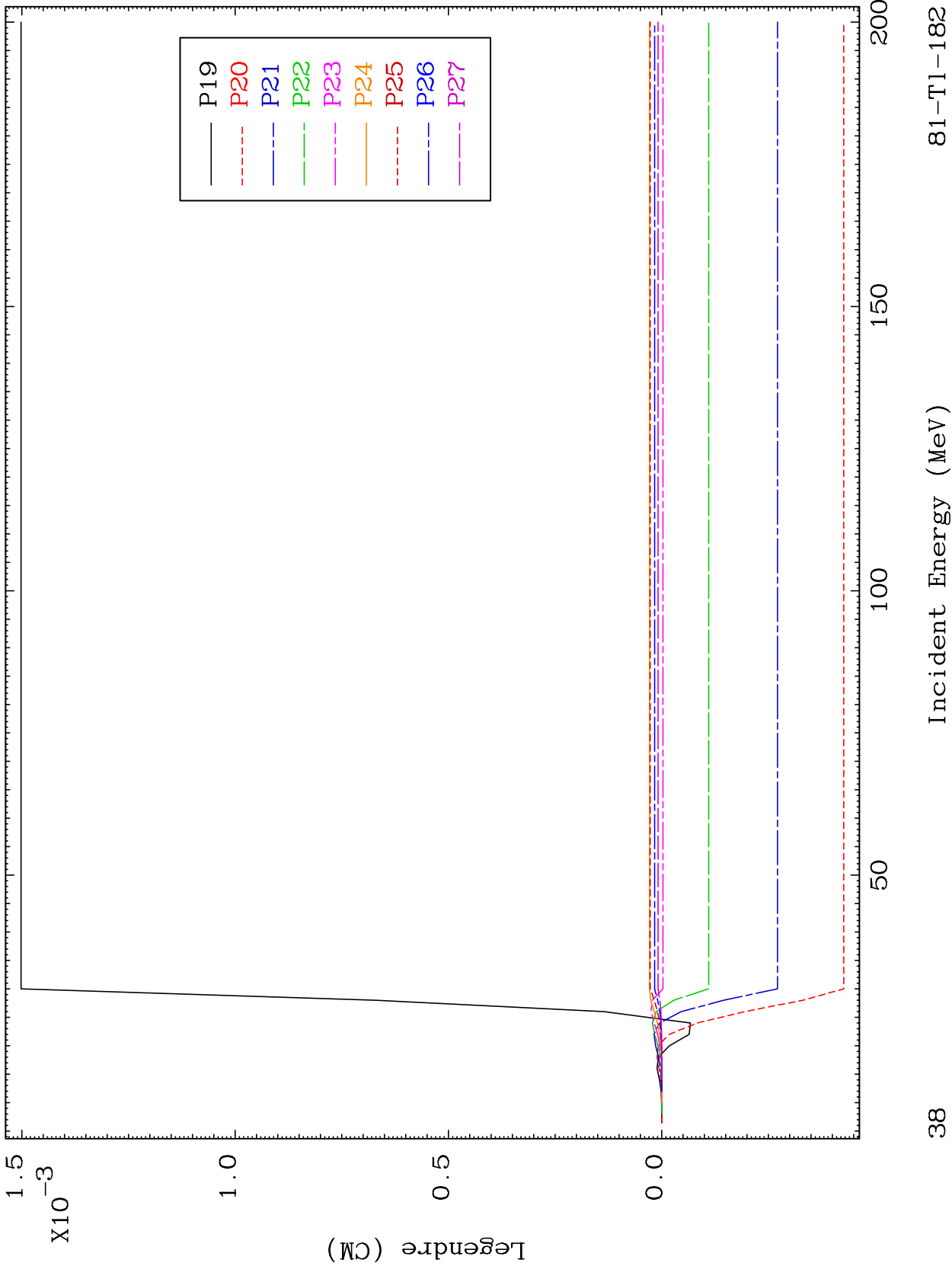
81-Tl-182



37

Incident Energy (MeV)

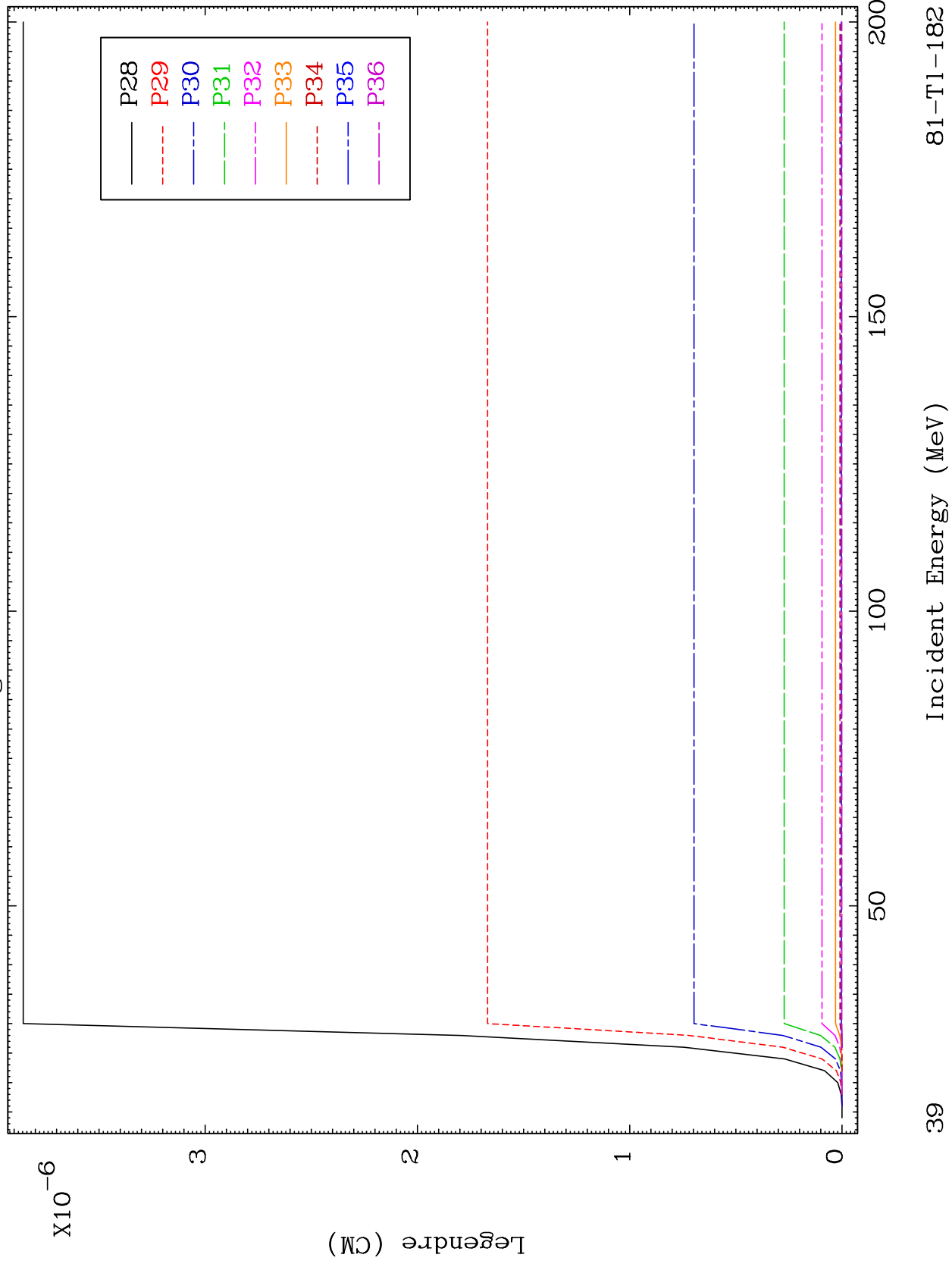
81-Tl-182



MAT 8062

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

81-T1-182

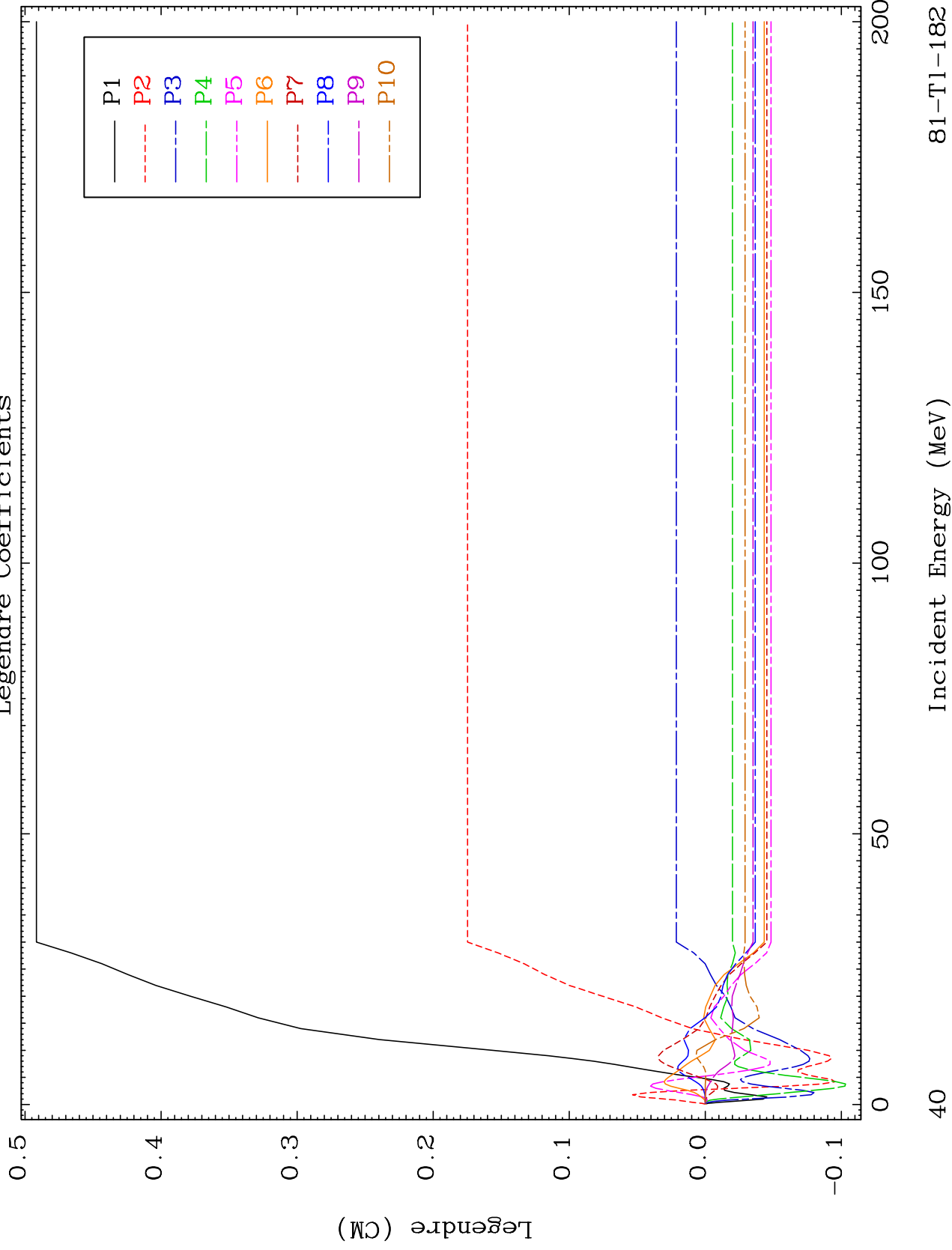




MAT 8062

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

81-Tl-182



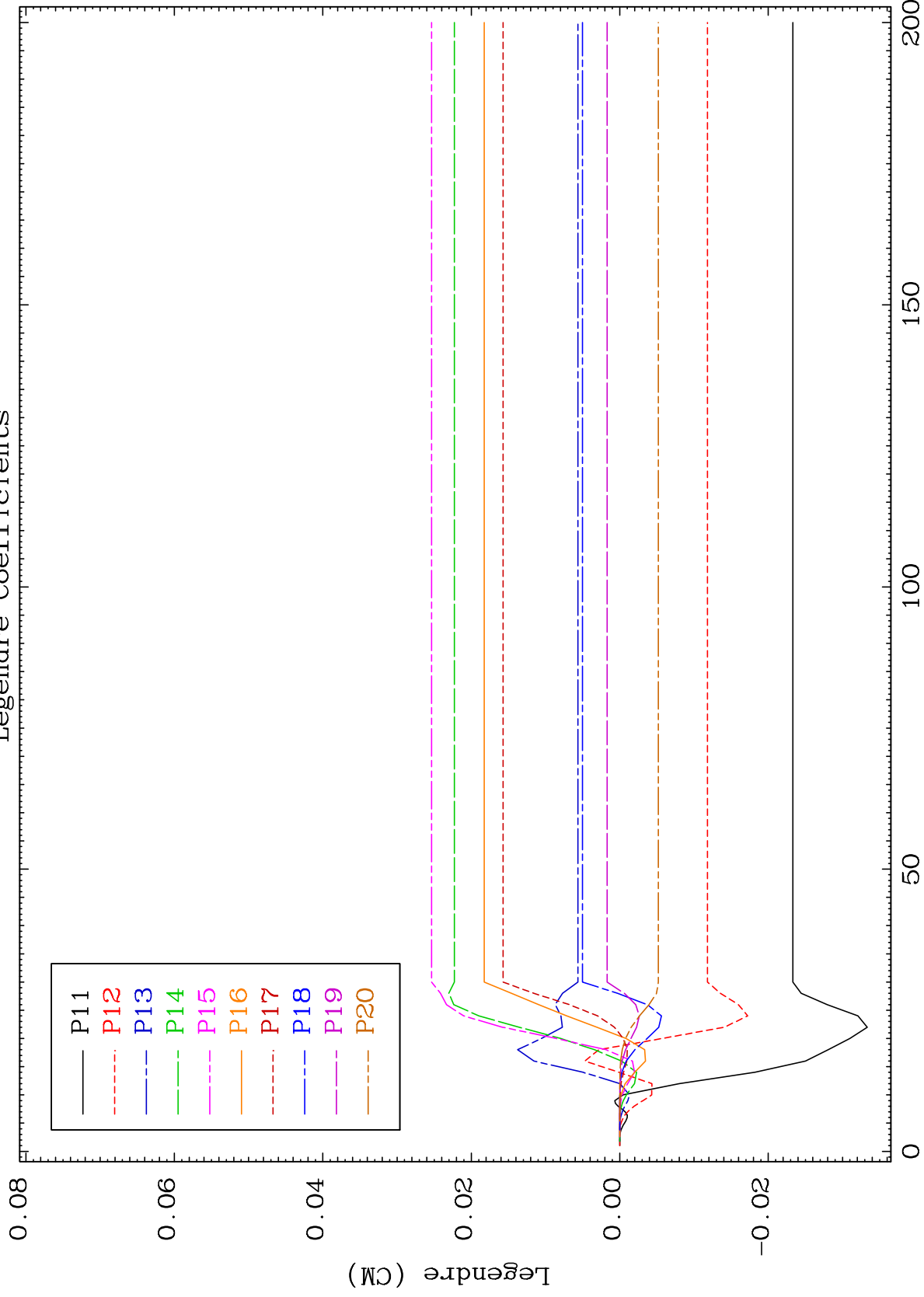
81-Tl-182

Incident Energy (MeV)

MAT 8062

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

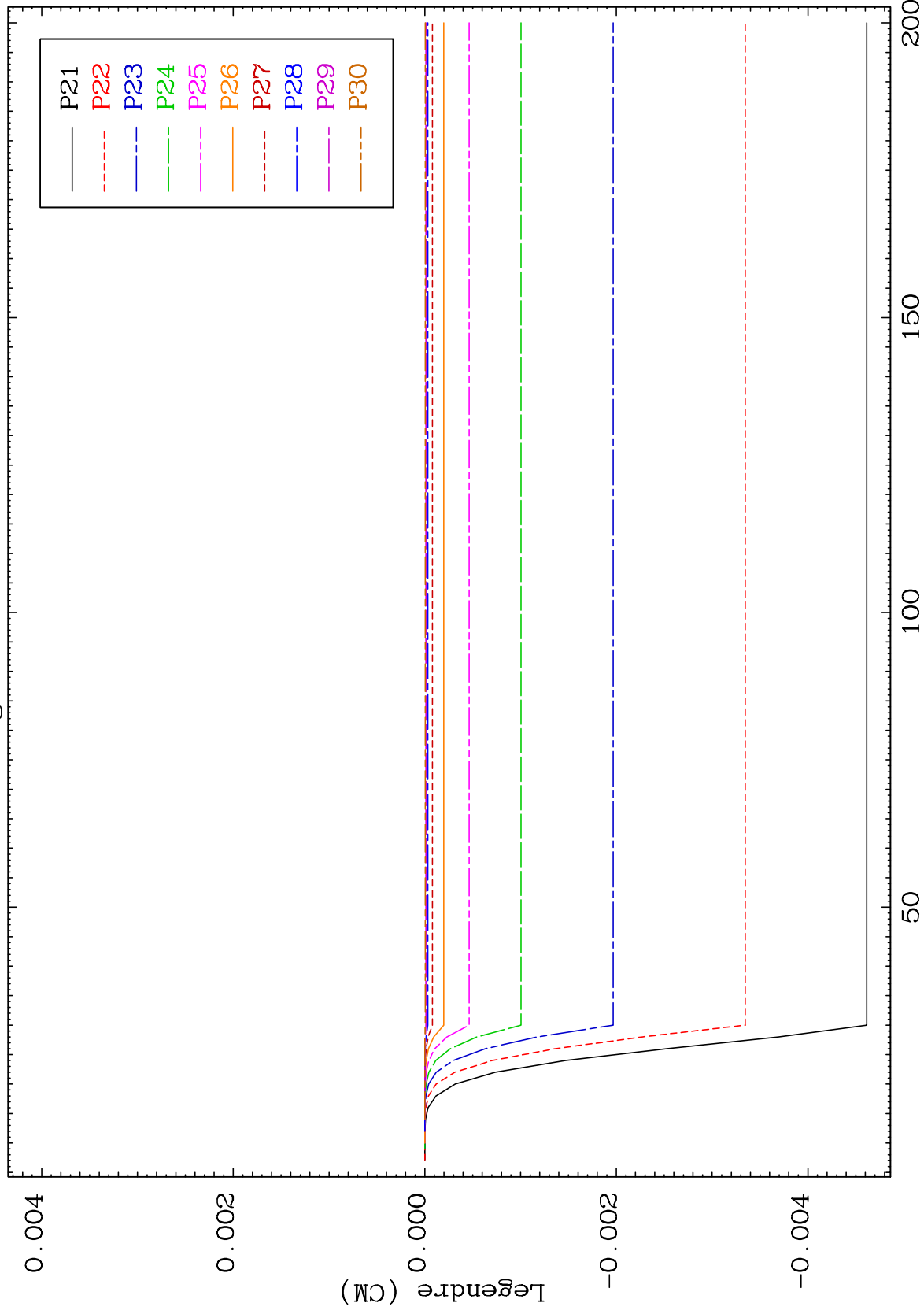
81-T1-182



MAT 8062

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

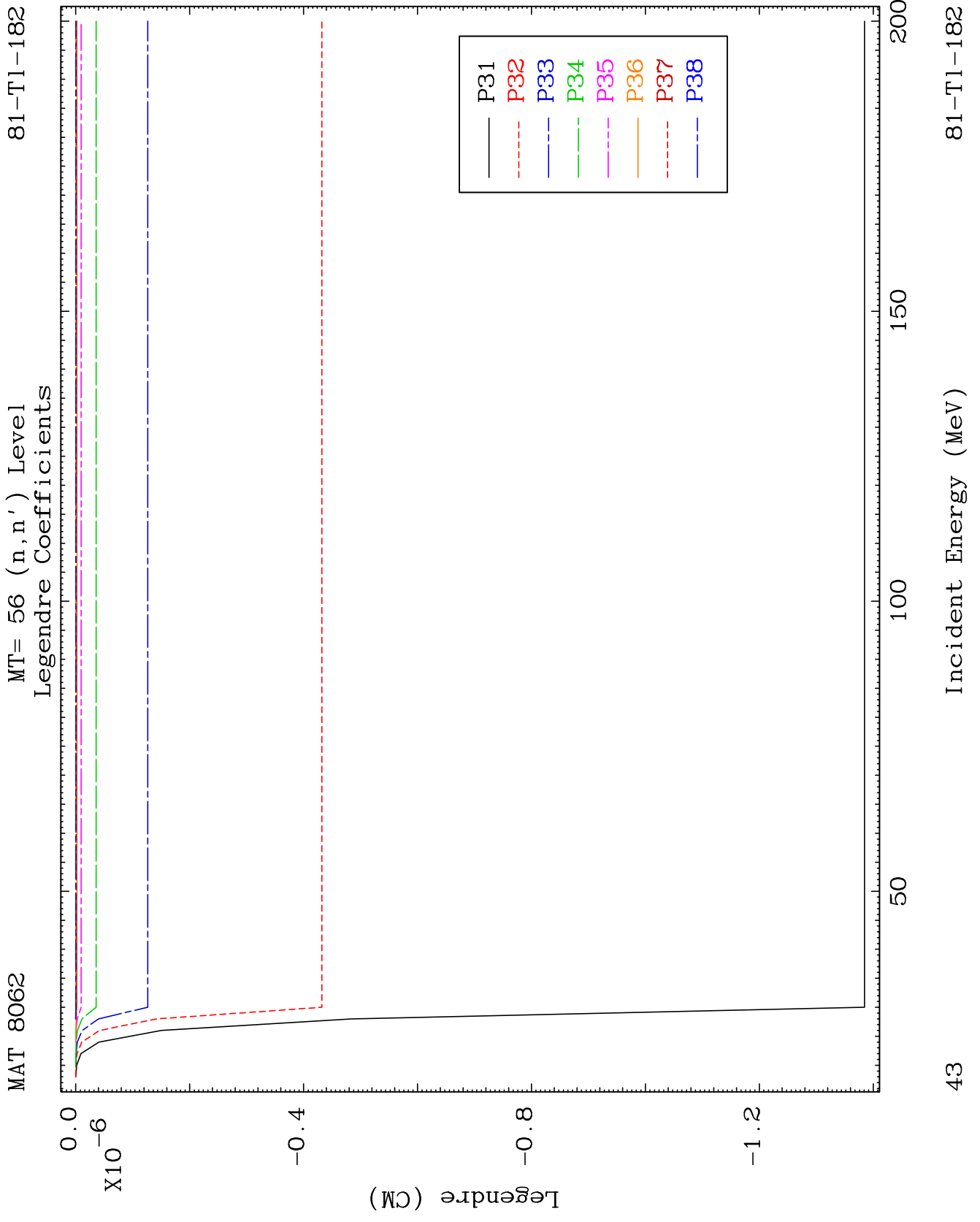
81-T1-182



42

Incident Energy (MeV)

81-T1-182

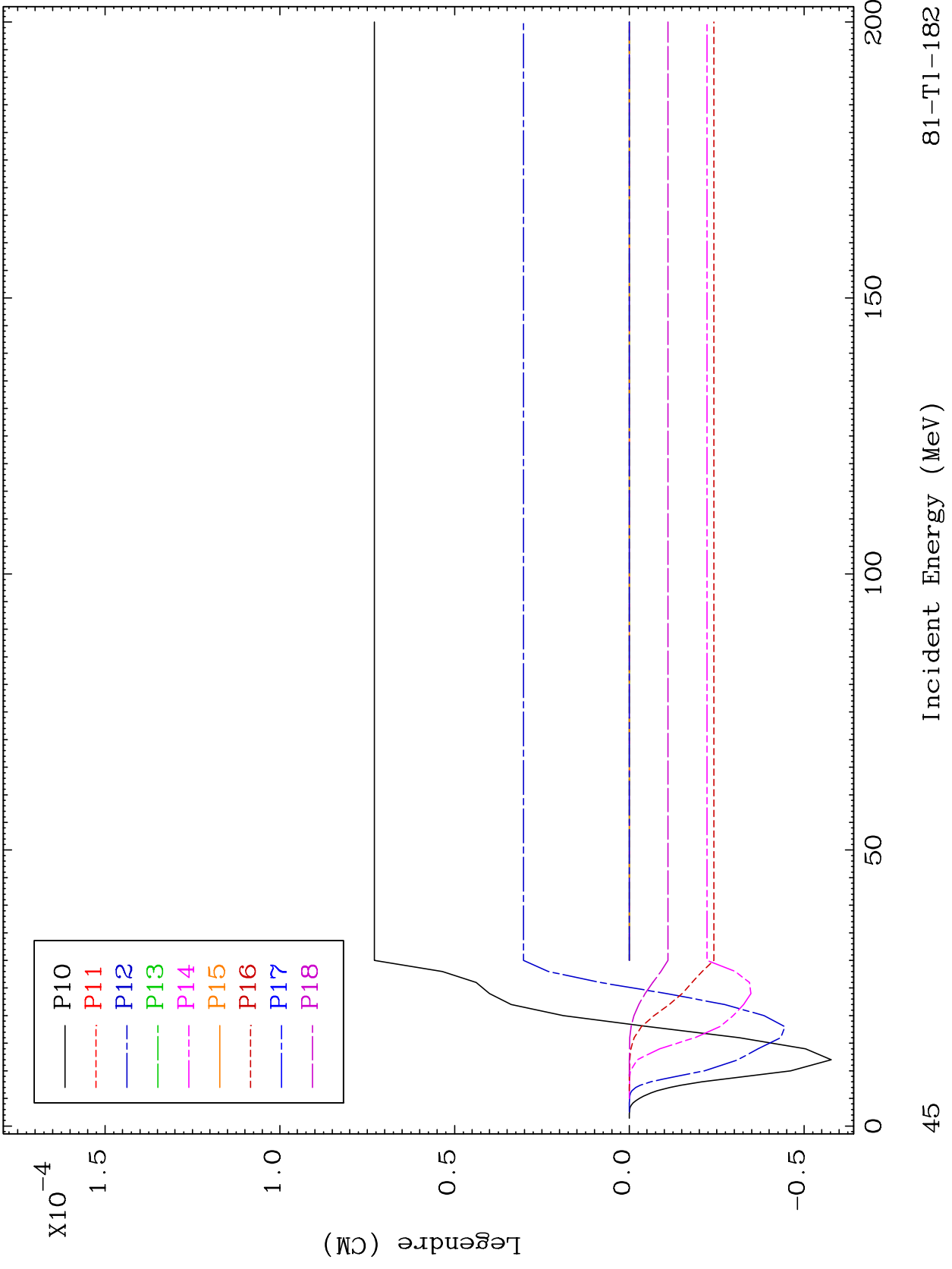
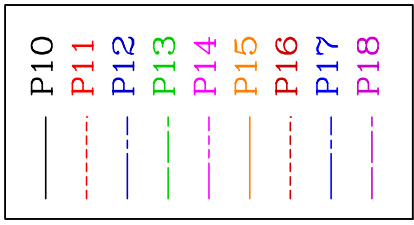




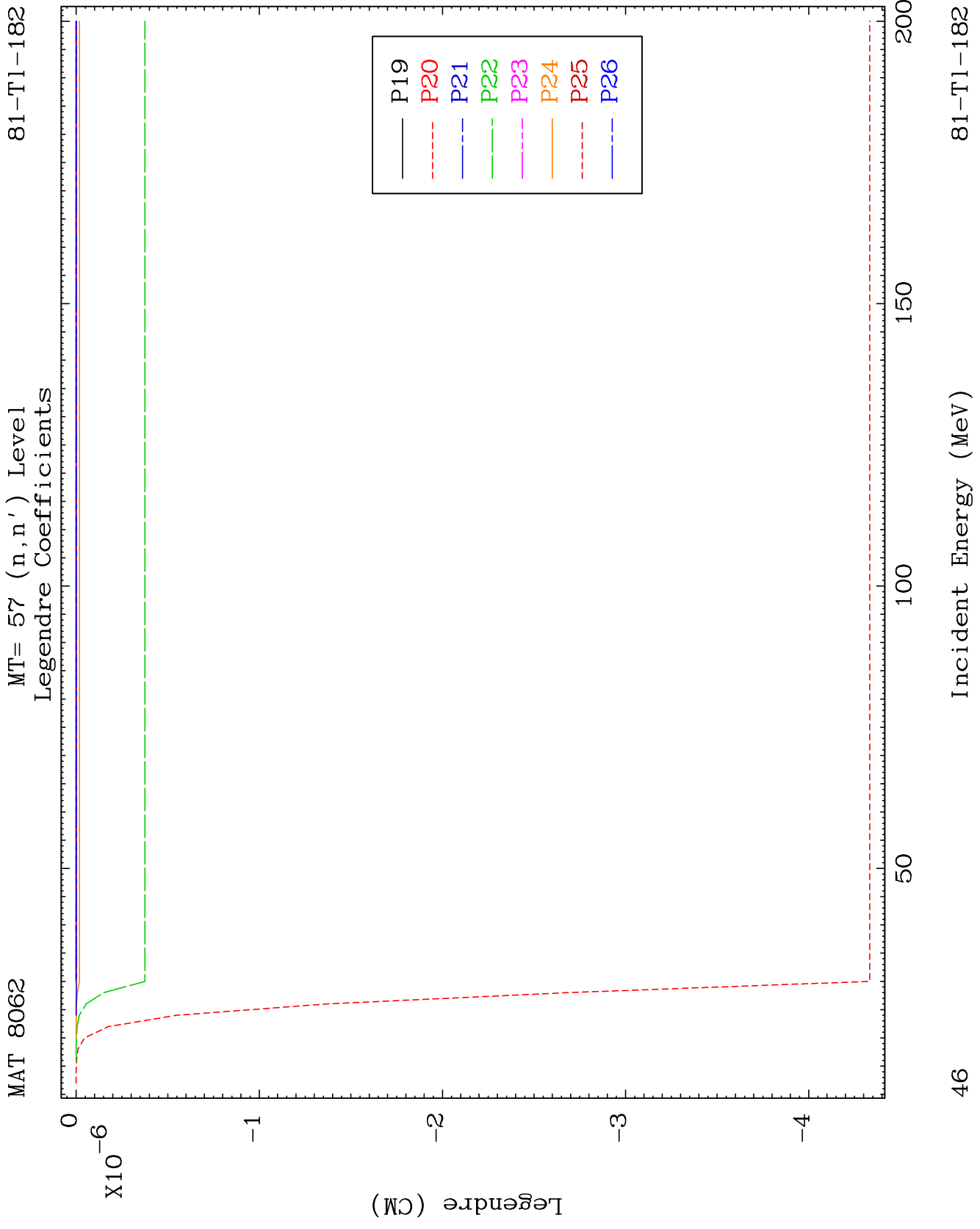
MAT 8062

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

81-Tl-182



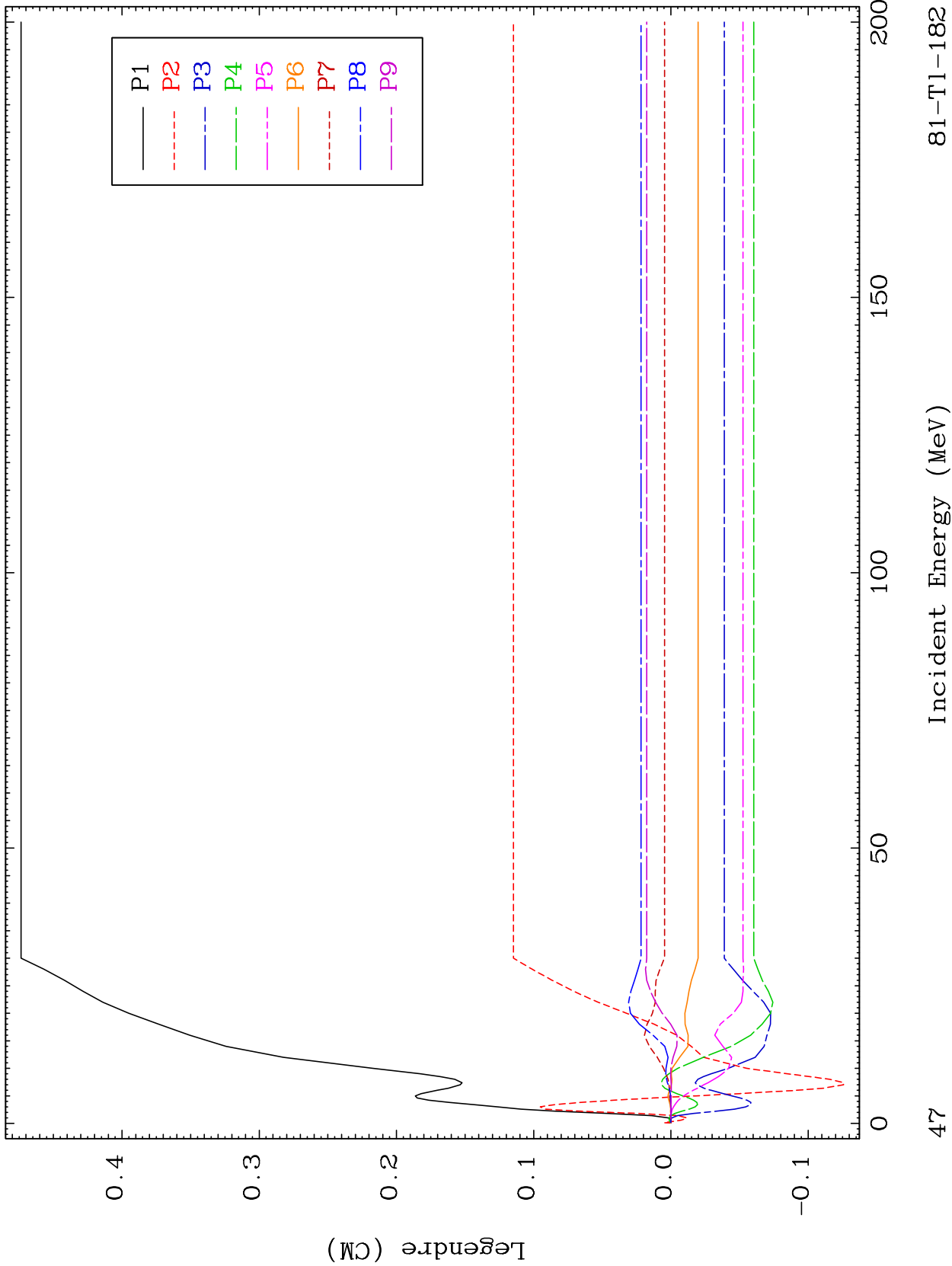
81-Tl-182



MAT 8062

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

81-T1-182



81-T1-182

Incident Energy (MeV)

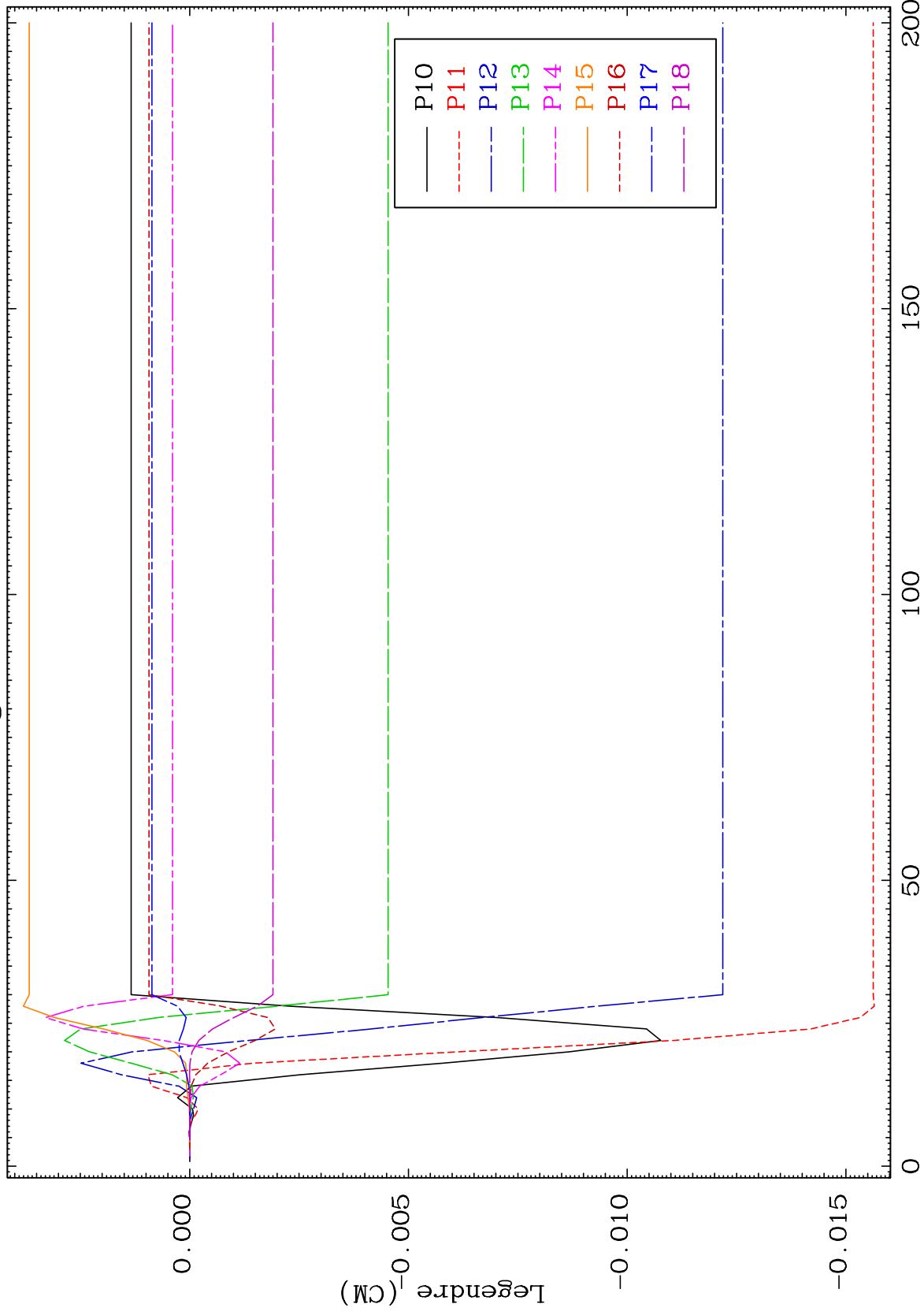
47



MAT 8062

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

81-T1-182



48

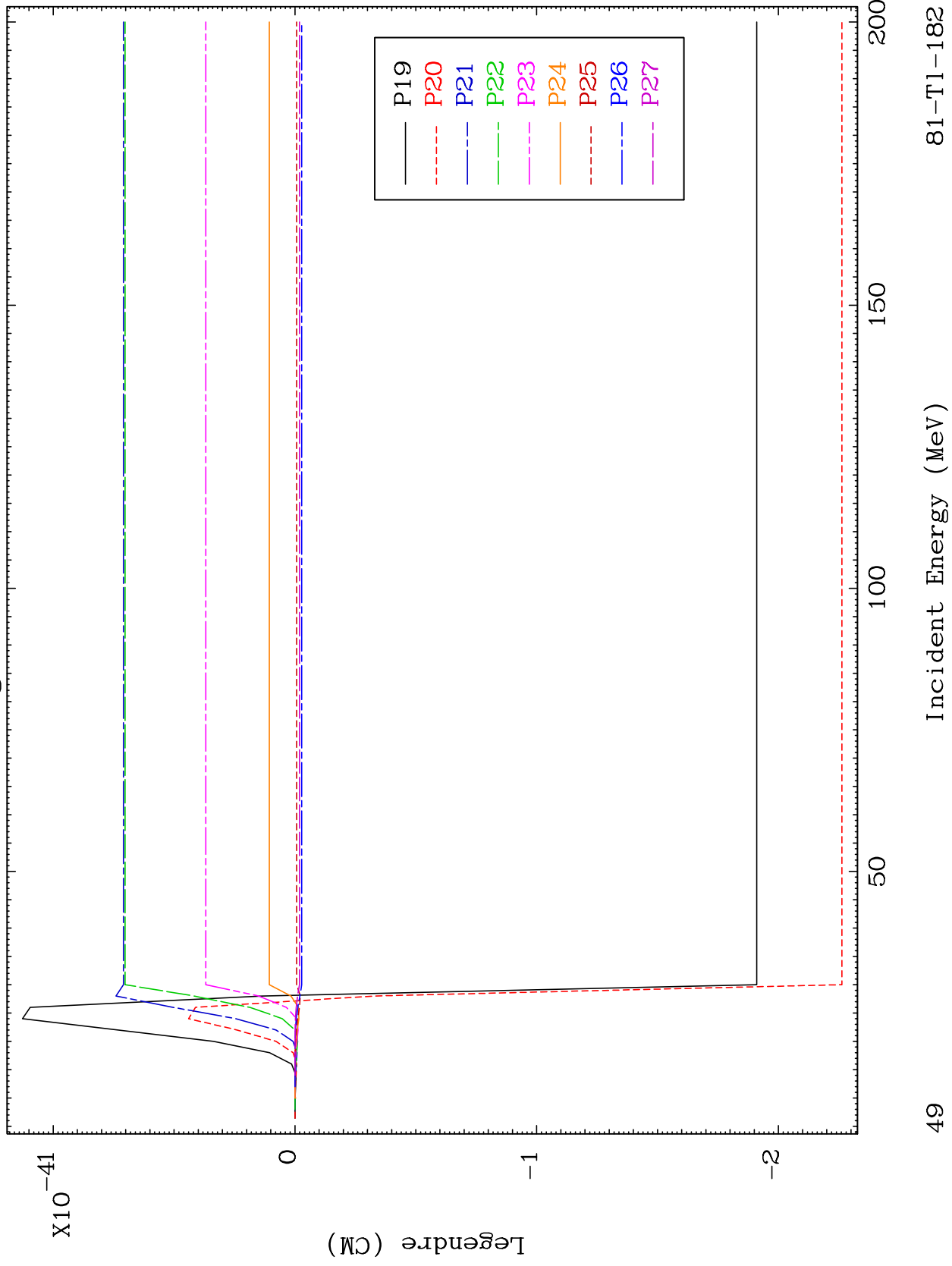
Incident Energy (MeV)

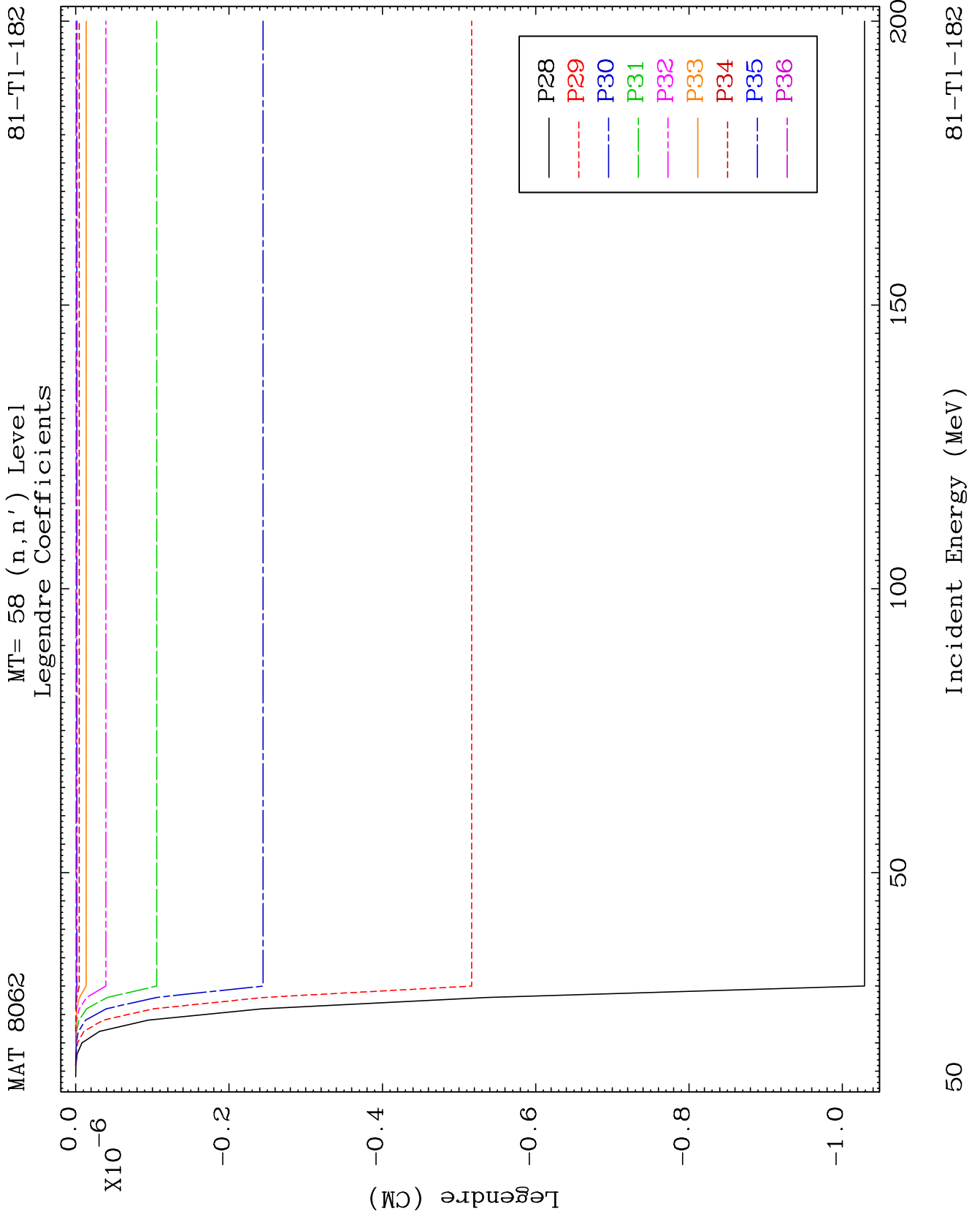
81-T1-182

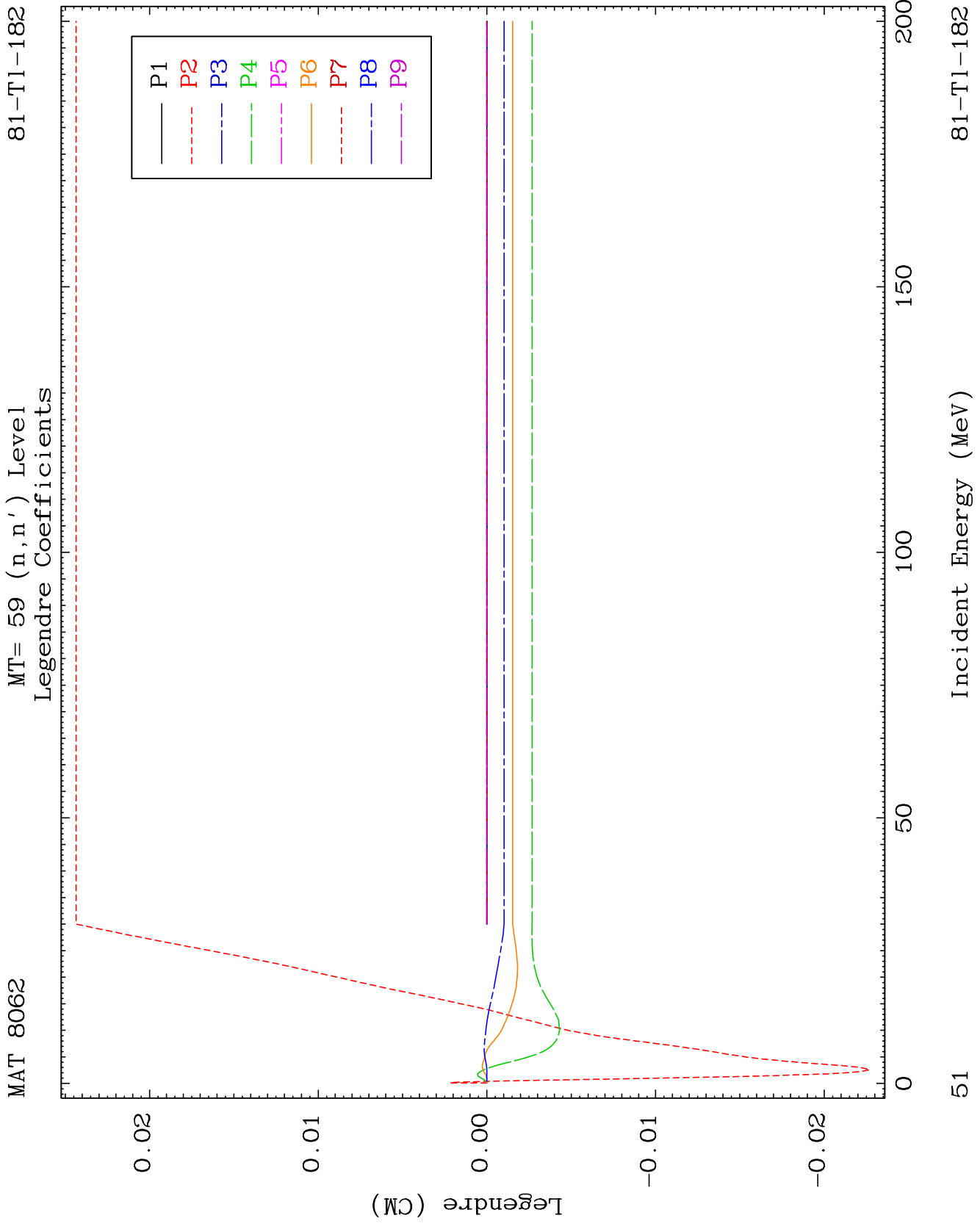
MAT 8062

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

81-T1-182



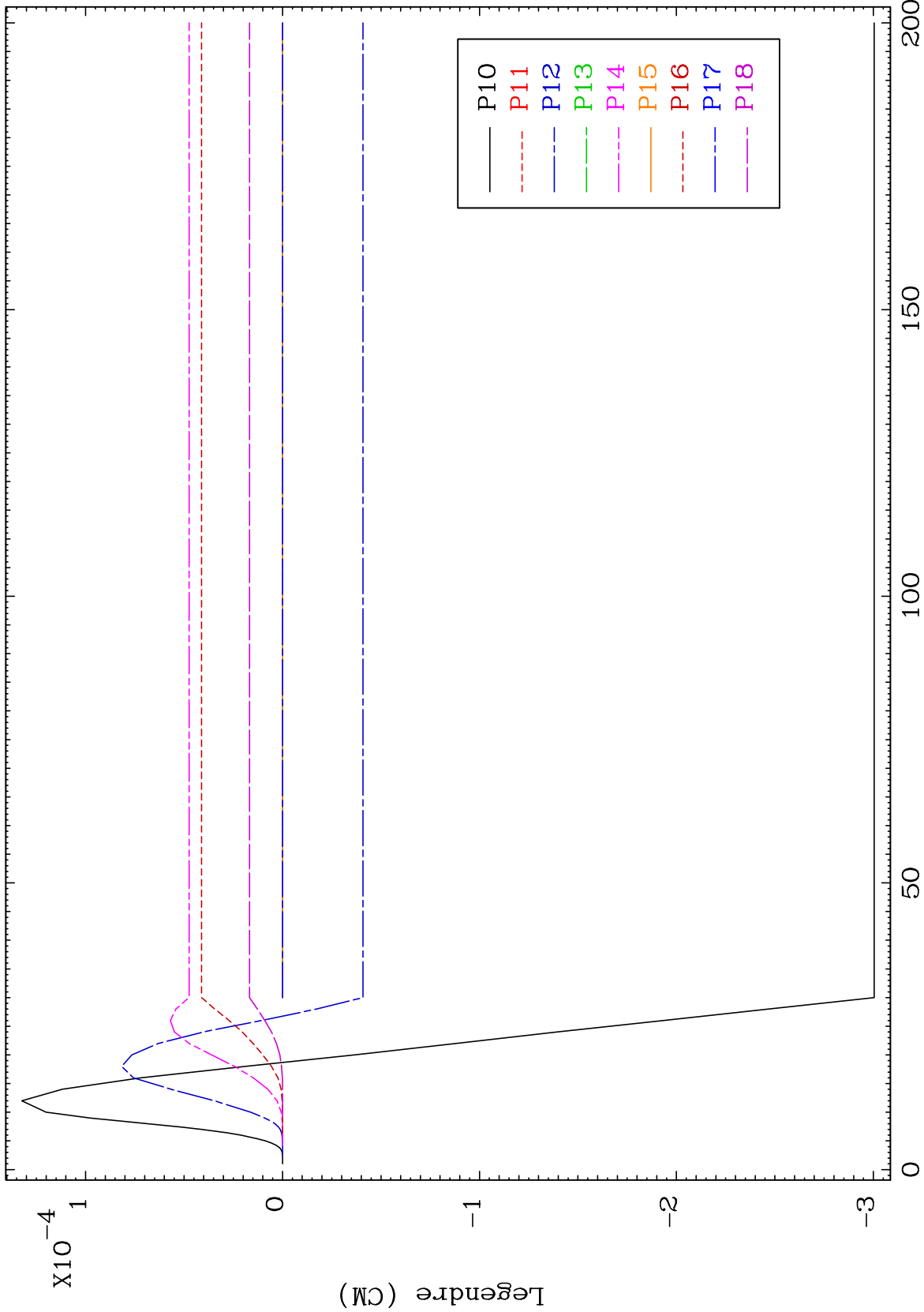




MAT 8062

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

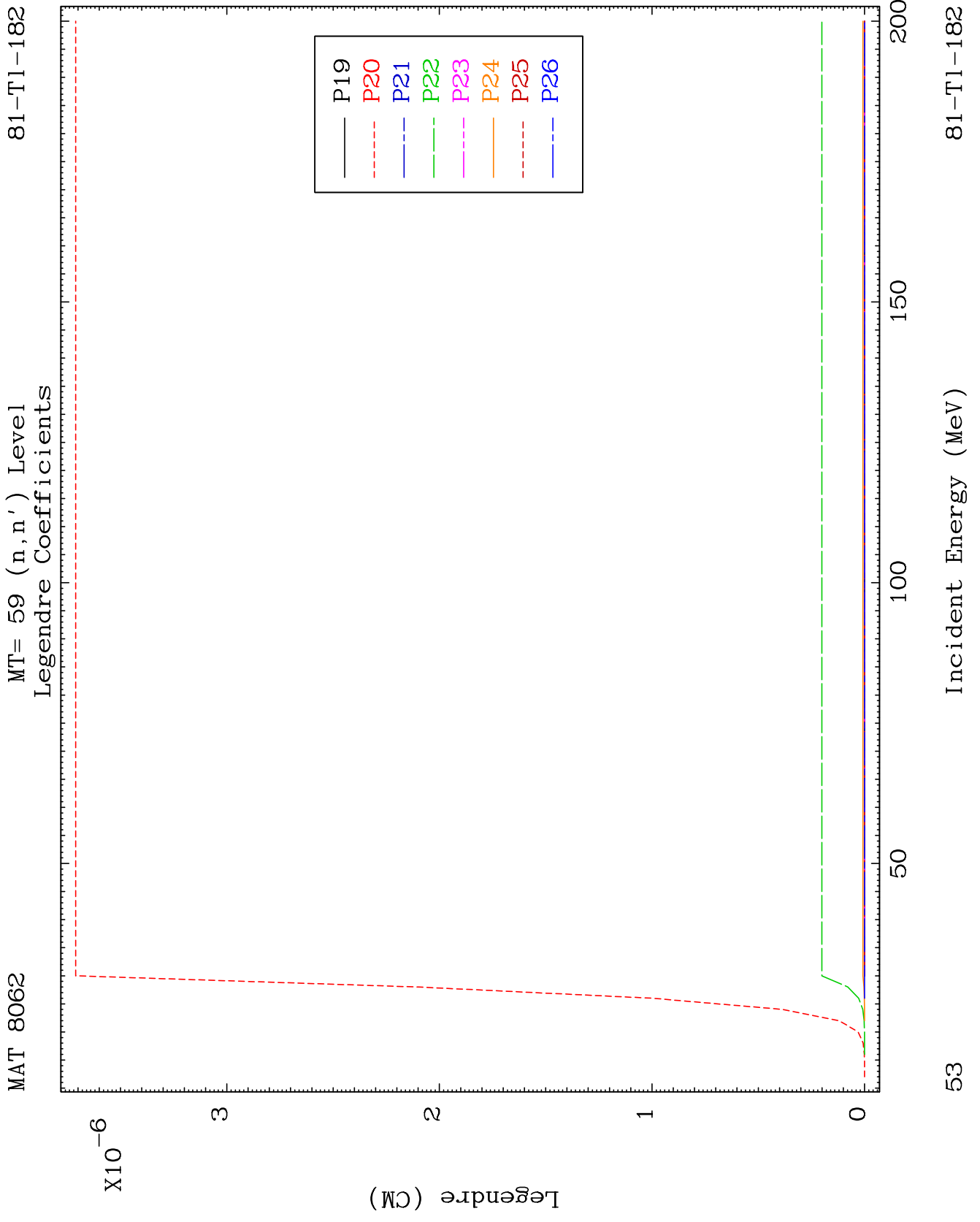
81-T1-182



52

Incident Energy (MeV)

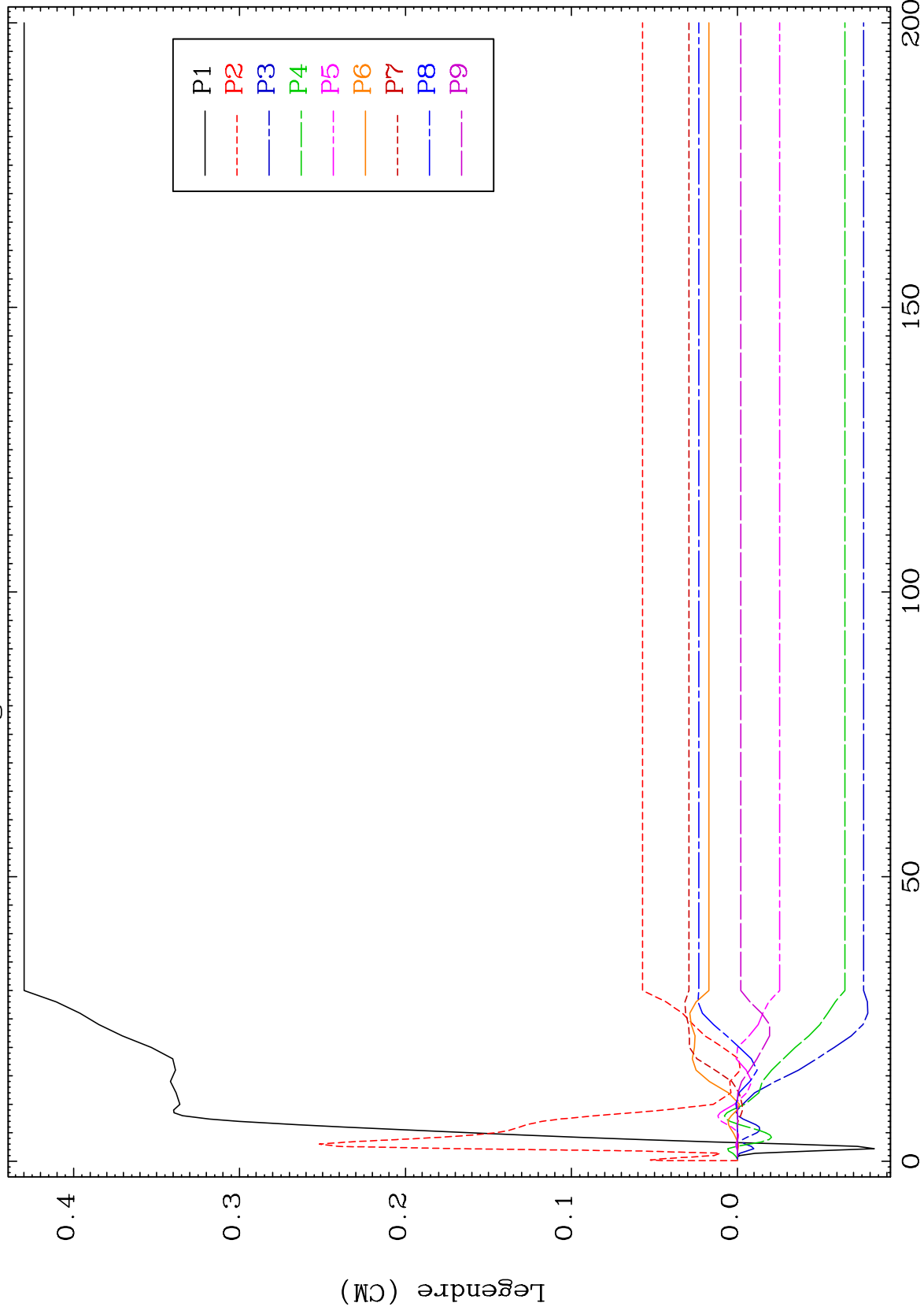
81-T1-182



MAT 8062

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

81-T1-182



81-T1-182

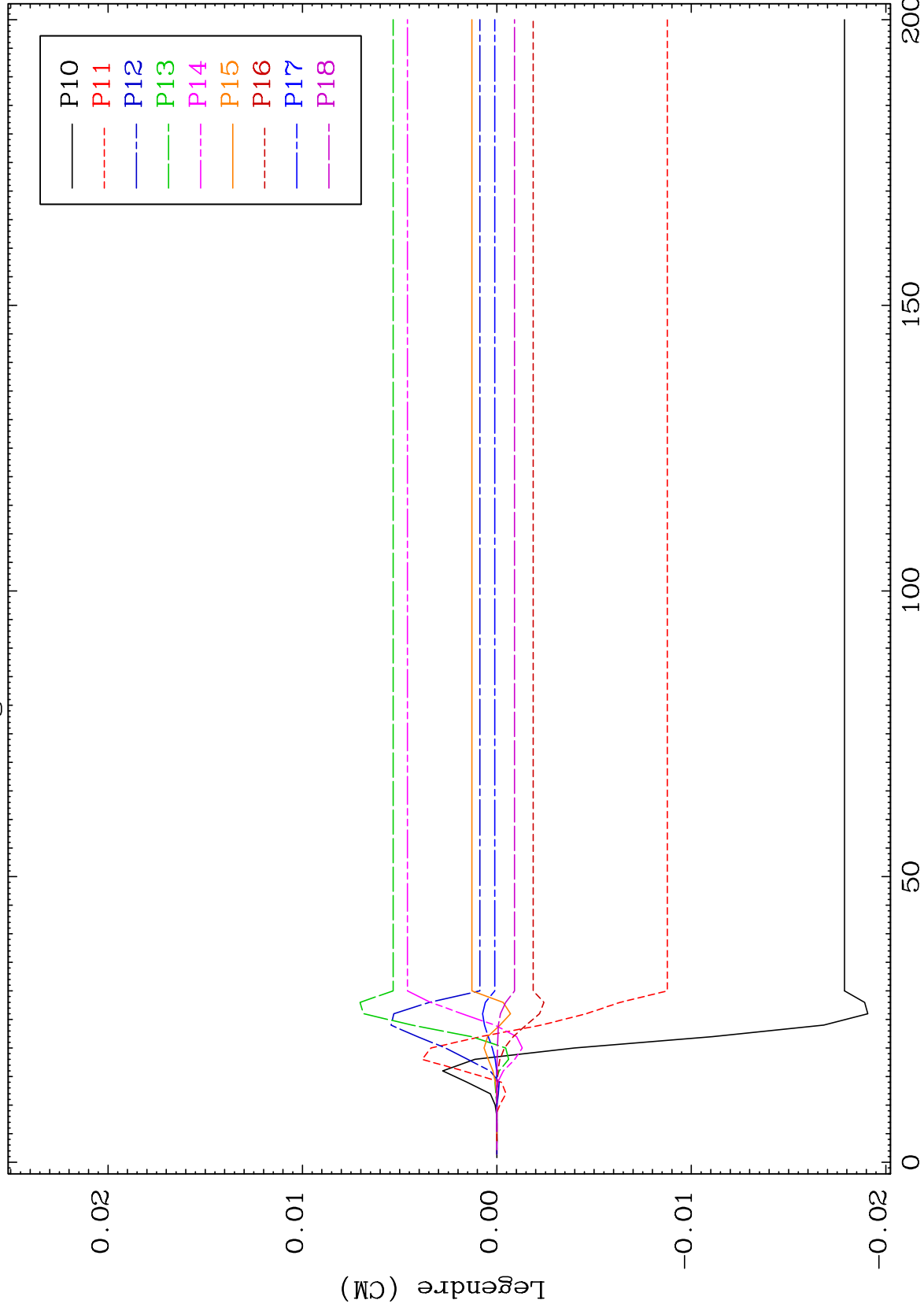
Incident Energy (MeV)

54

MAT 8062

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

81-Tl-182



55

Incident Energy (MeV)

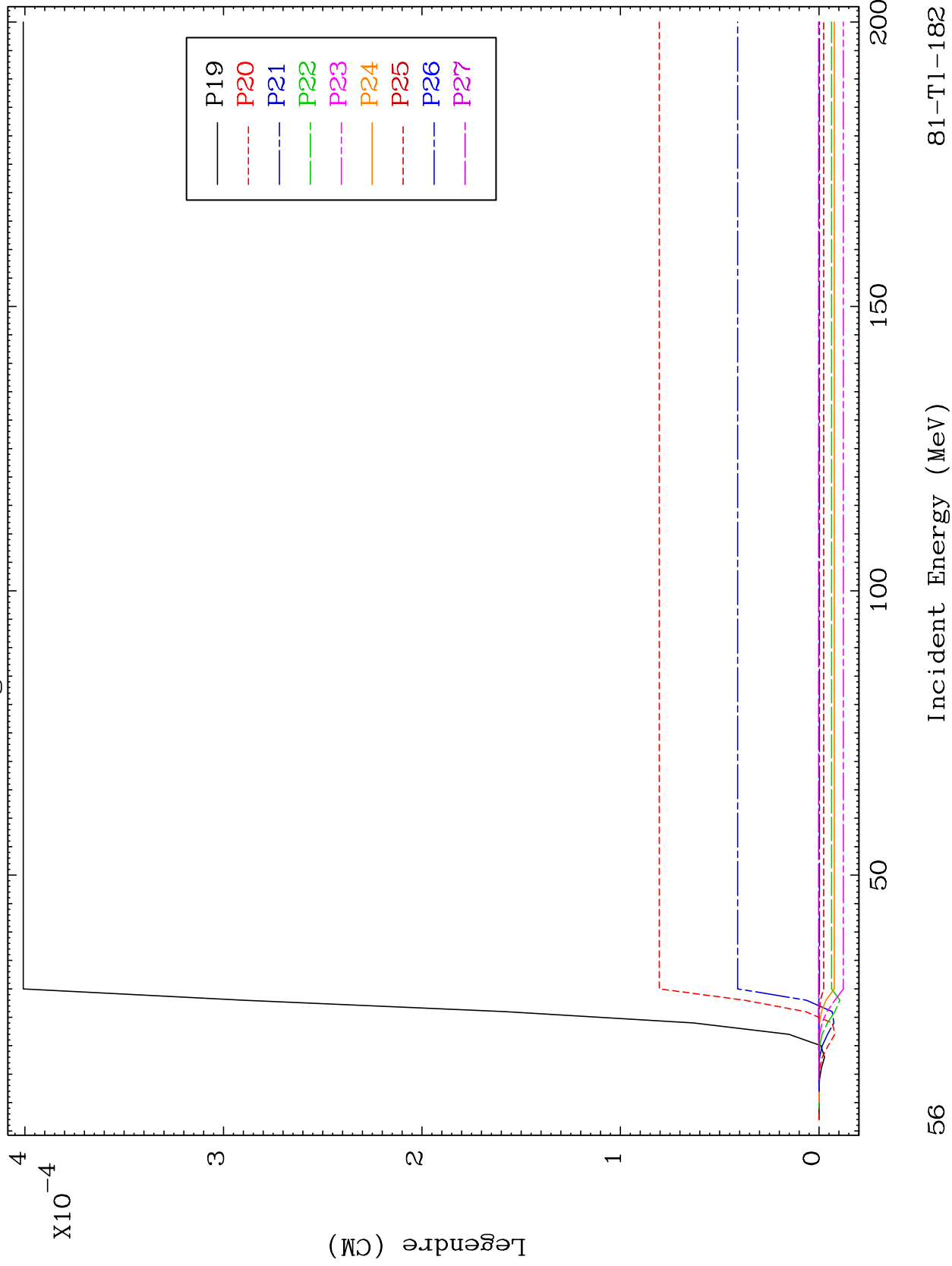
81-Tl-182

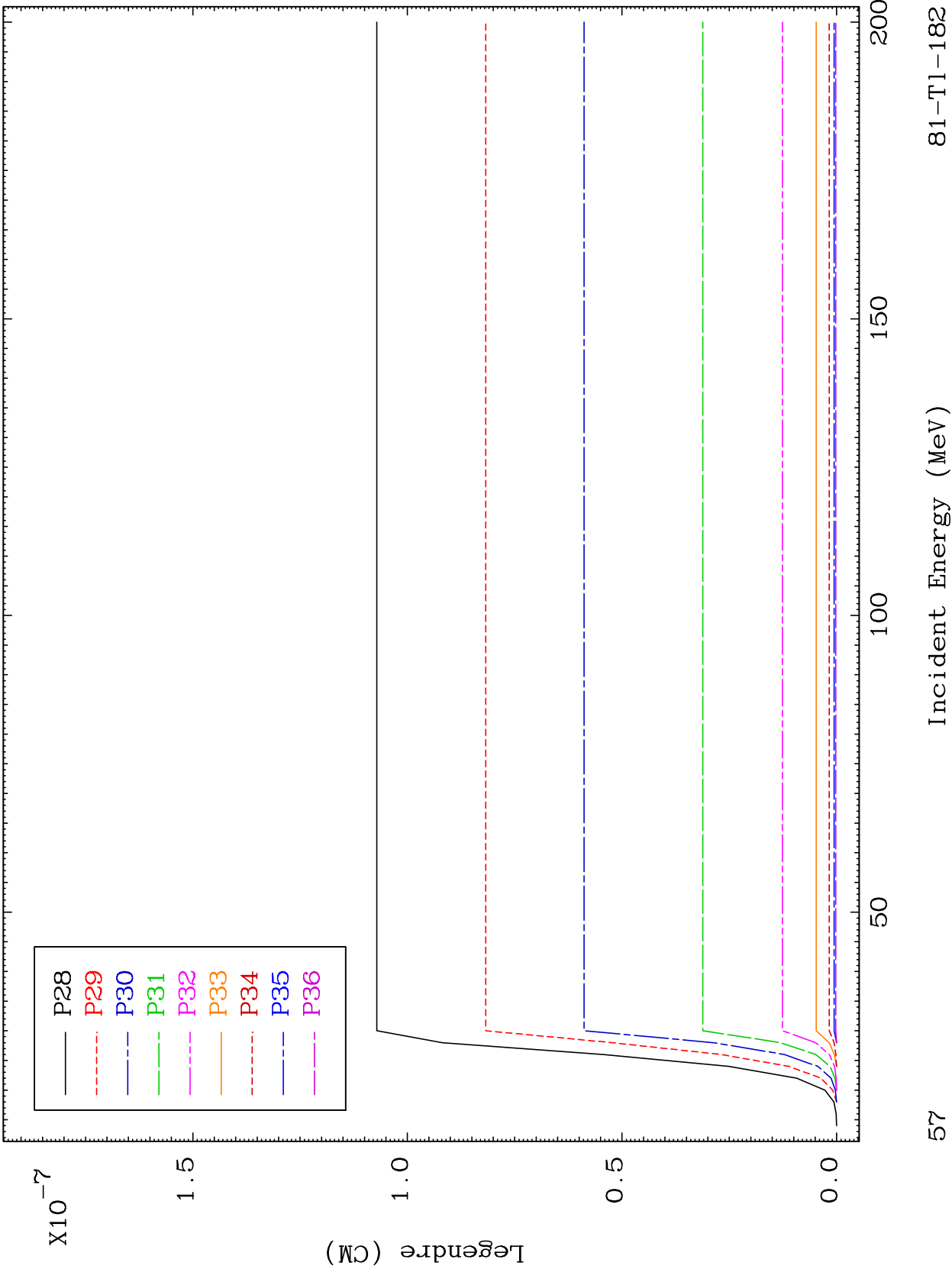


MAT 8062

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

81-Tl-182

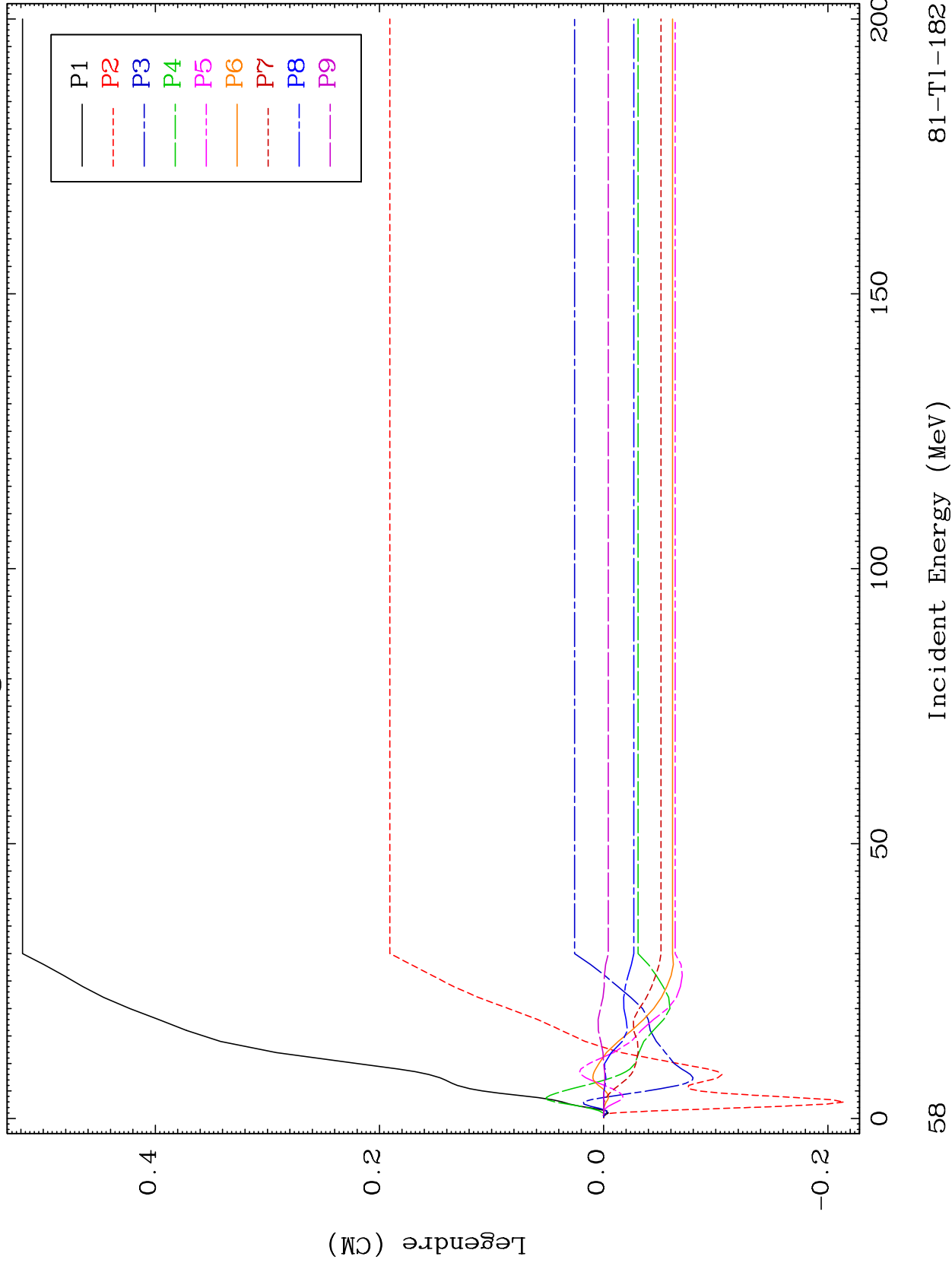




MAT 8062

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

81-T1-182



81-T1-182

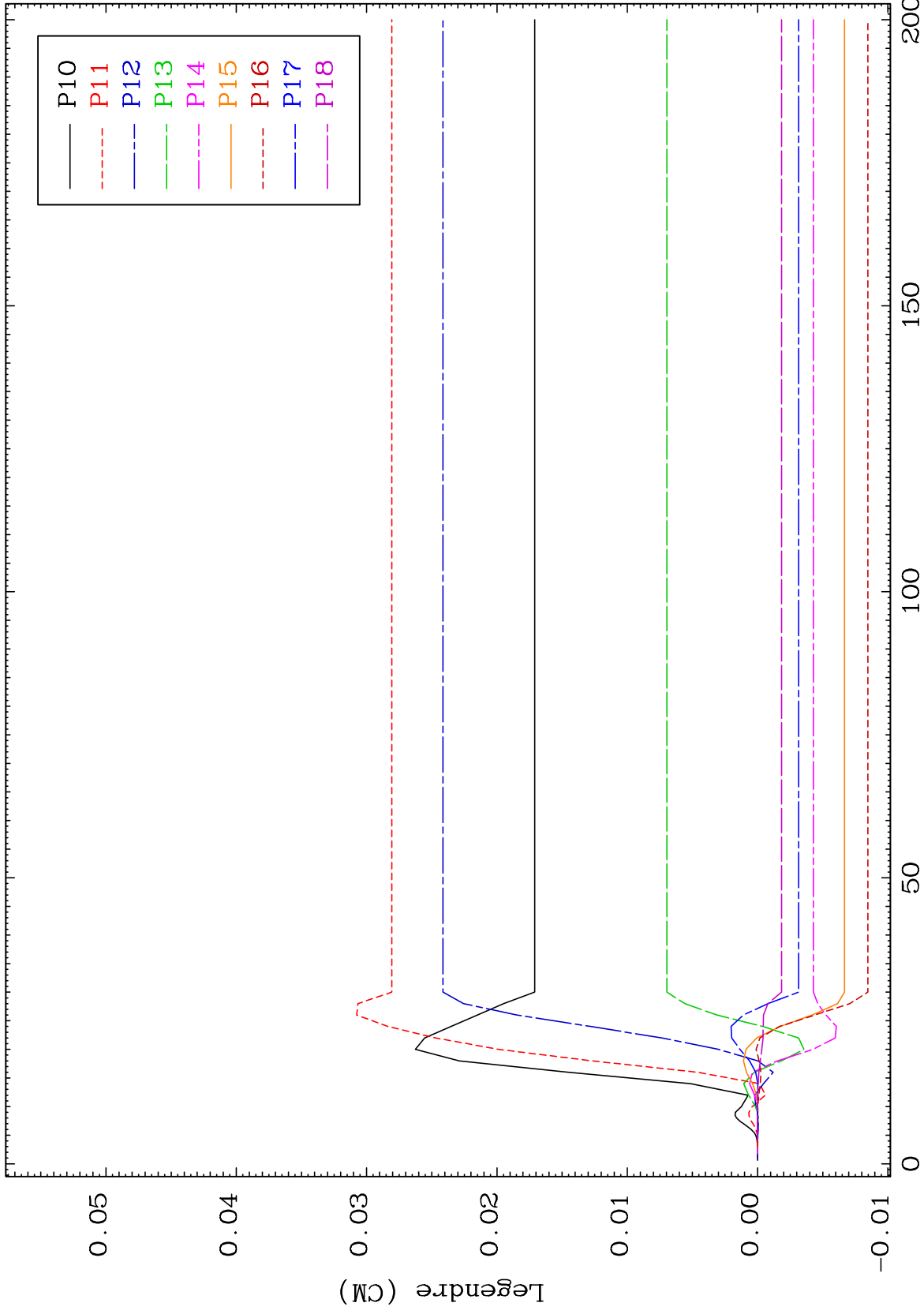
Incident Energy (MeV)

58

MAT 8062

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

81-T1-182



59

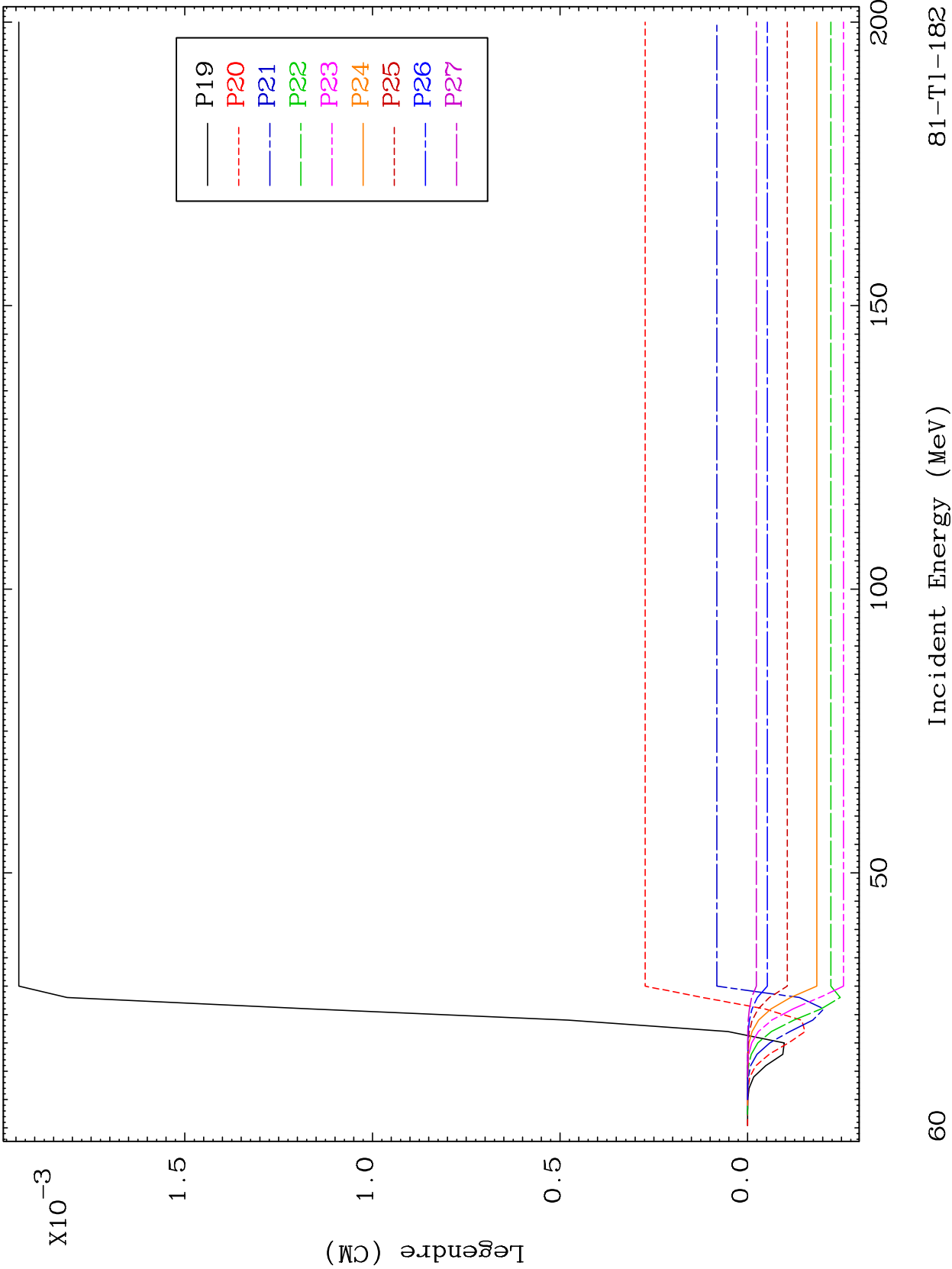
Incident Energy (MeV)

81-T1-182

MAT 8062

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

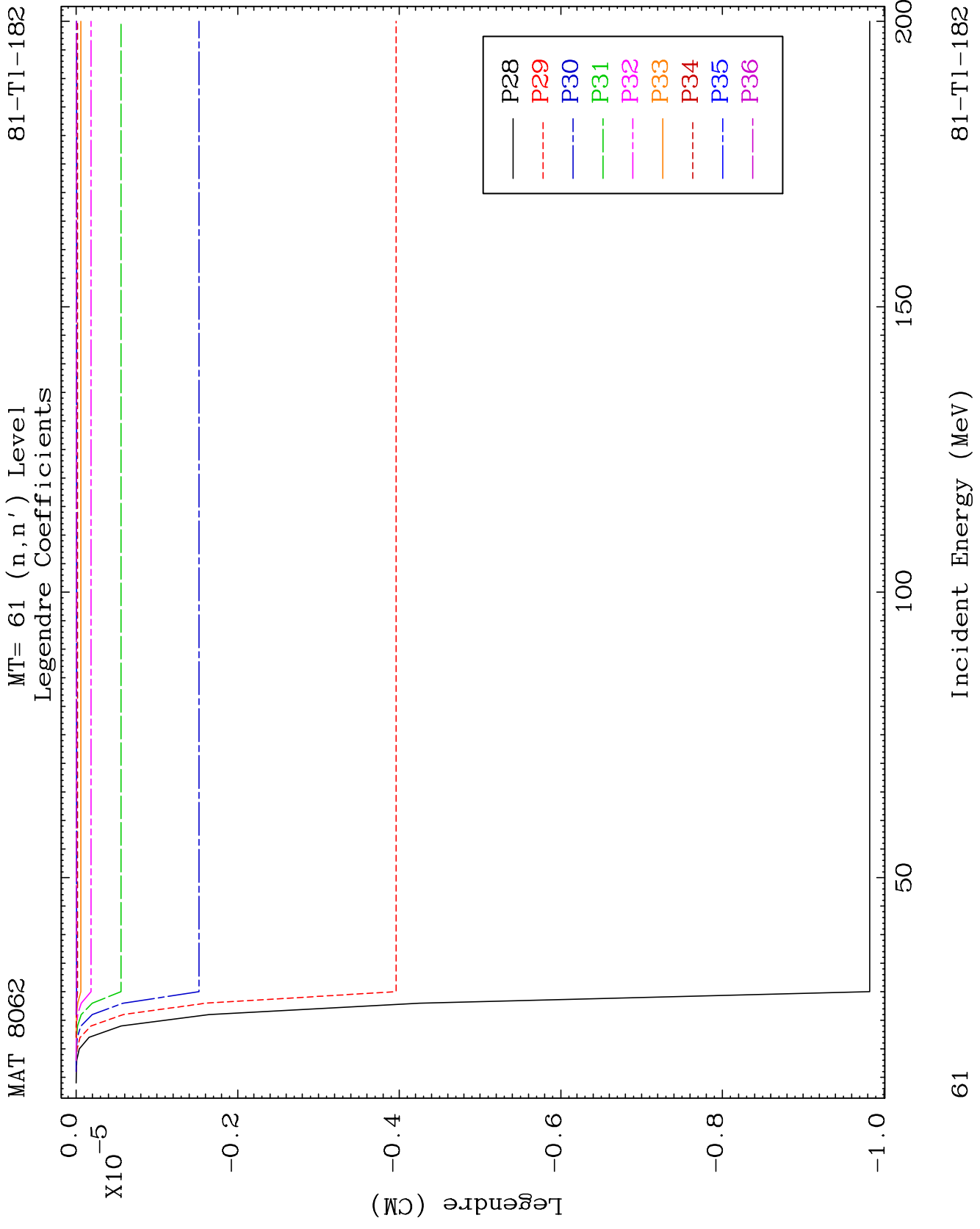
81-Tl-182



60

81-Tl-182

81-Tl-182

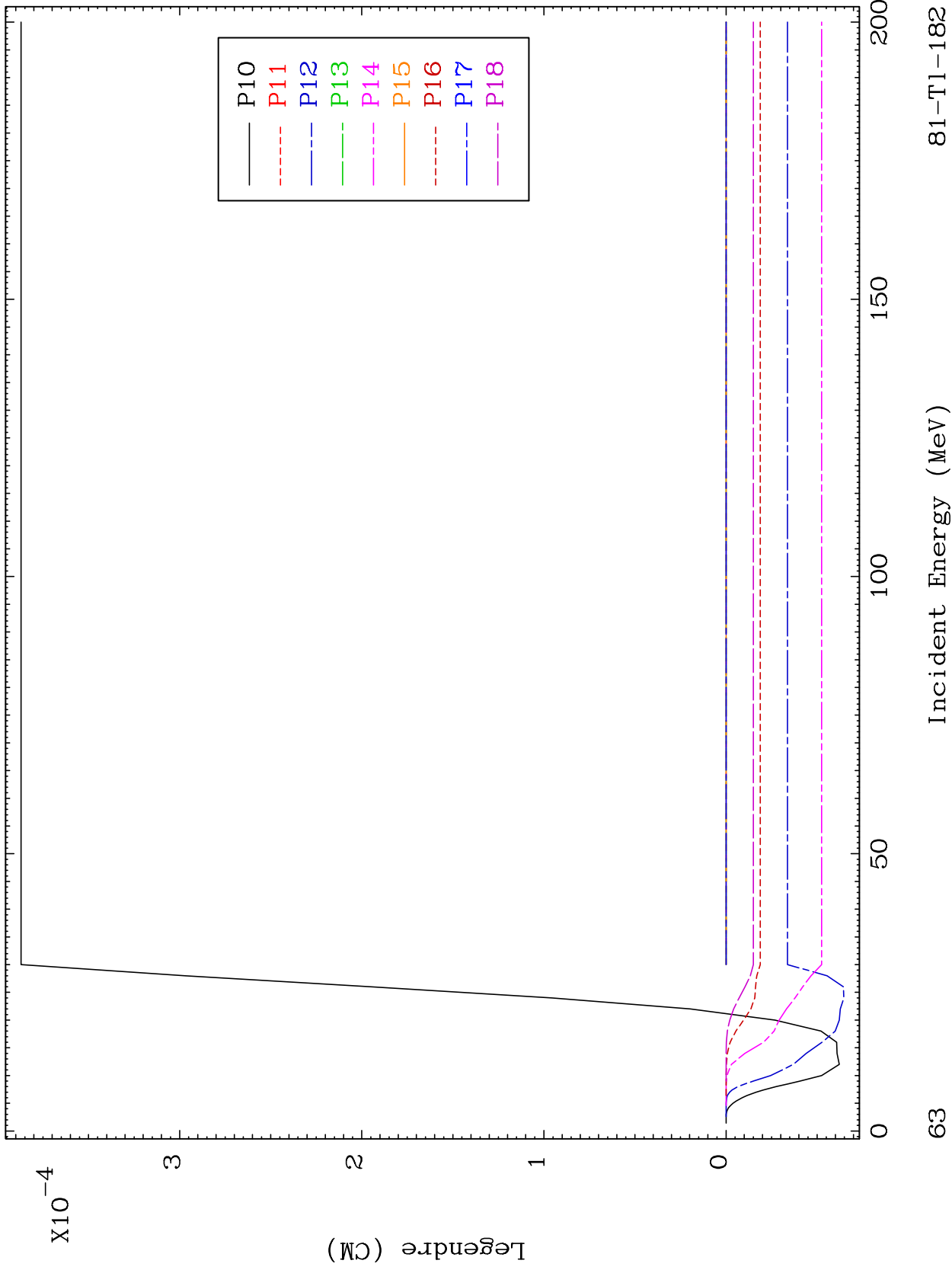




MAT 8062

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

81-Tl-182

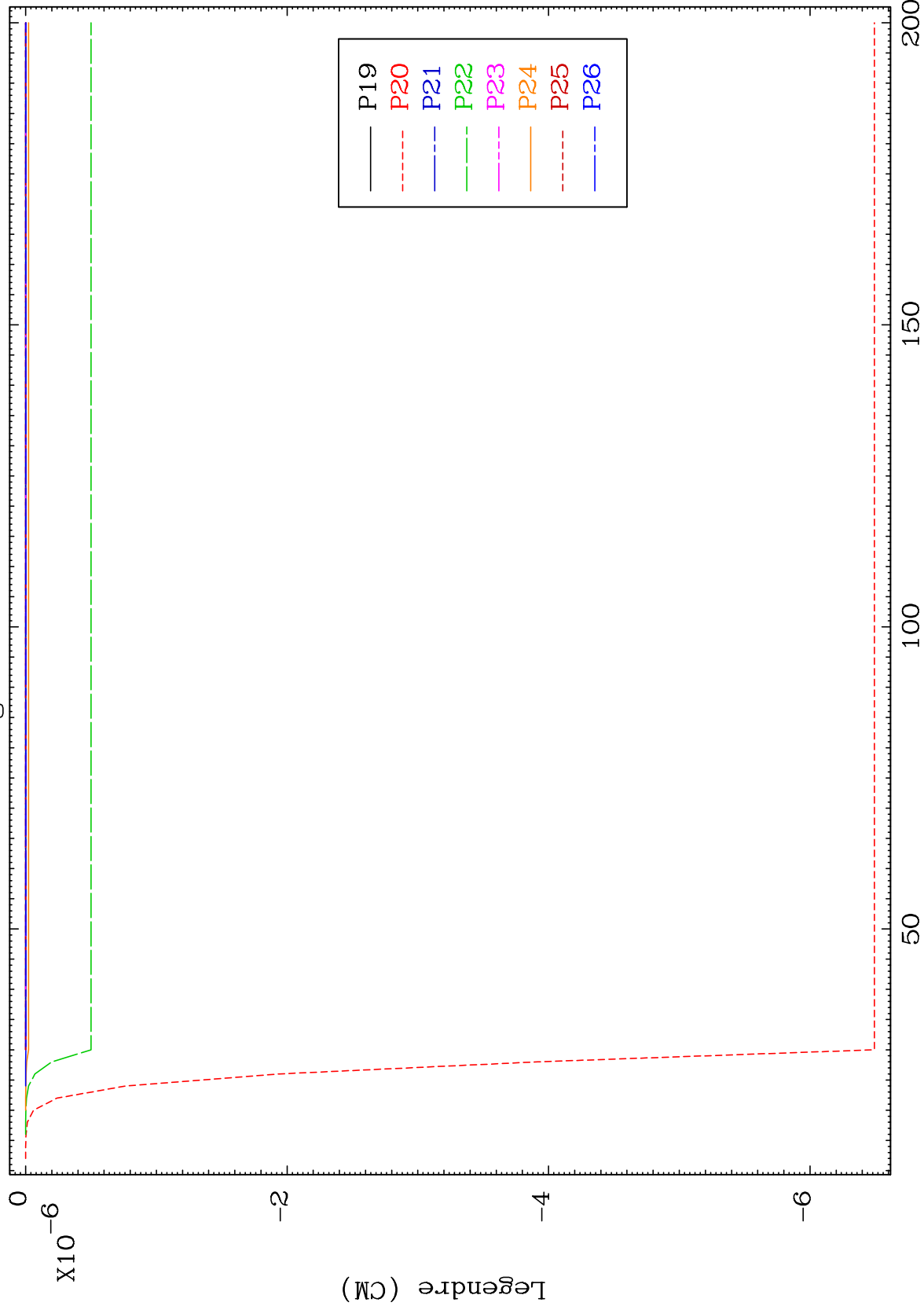




MAT 8062

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

81-T1-182



81-T1-182

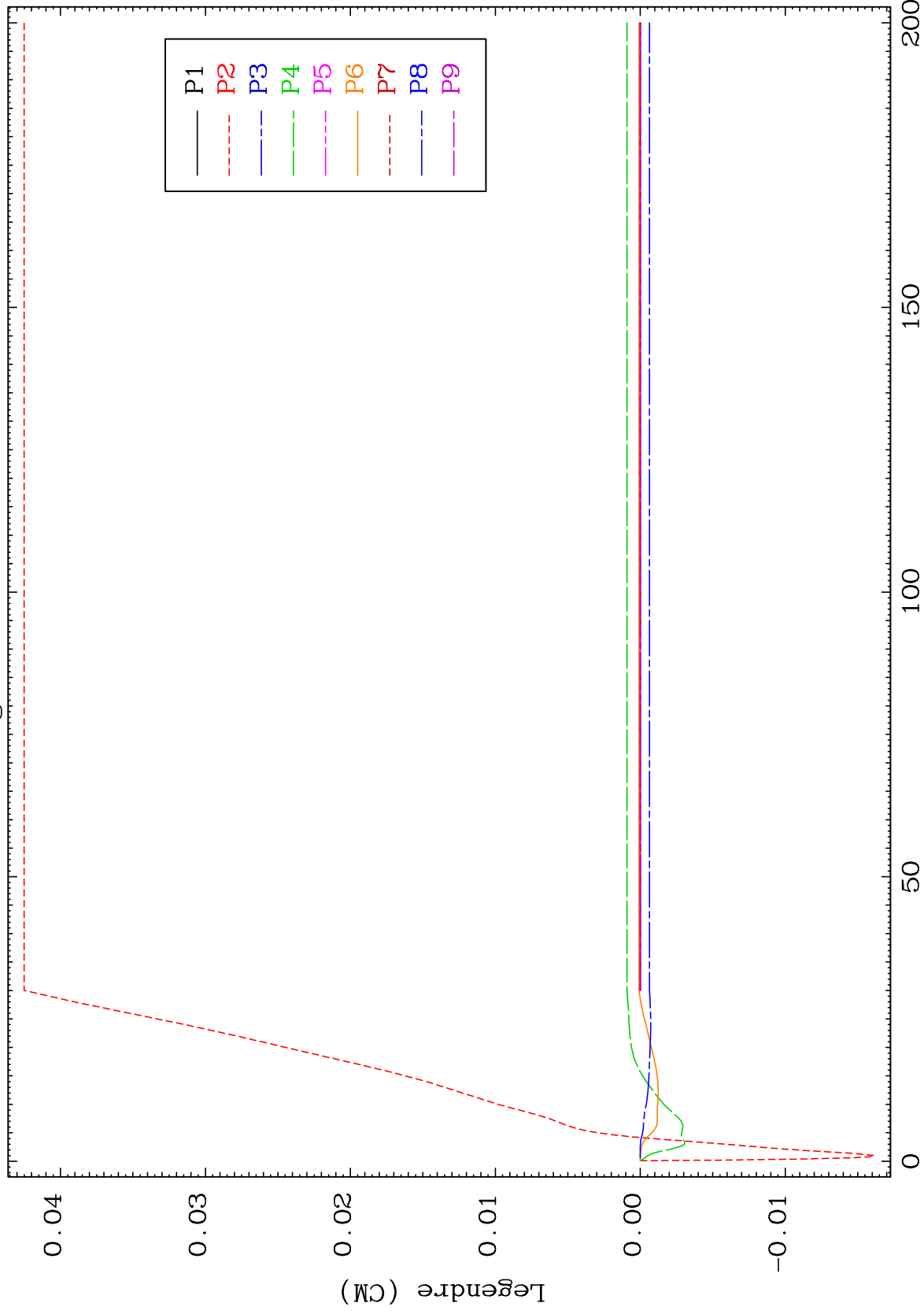
Incident Energy (MeV)

64

MAT 8062

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

81-T1-182



81-T1-182

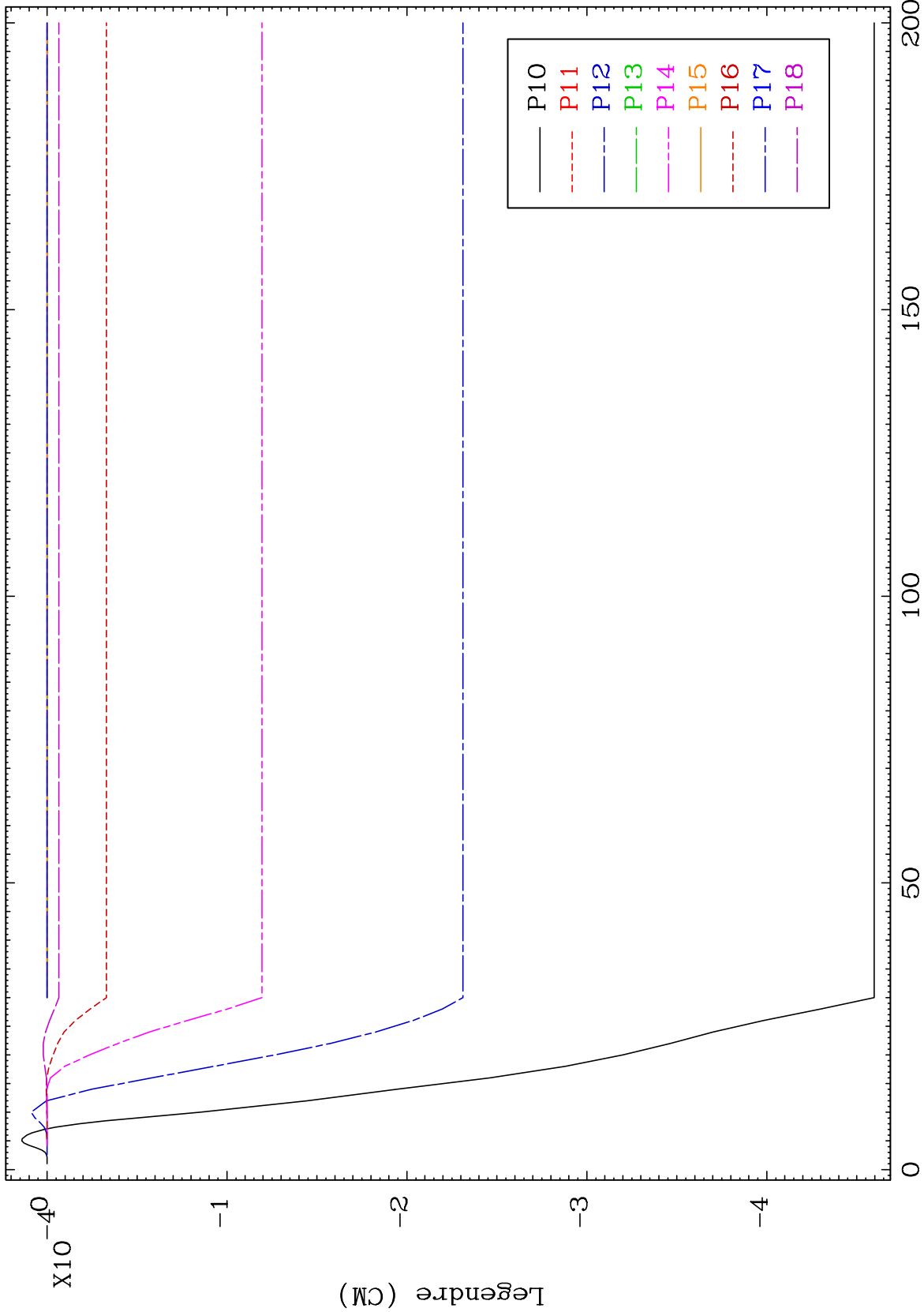
Incident Energy (MeV)

65

MAT 8062

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

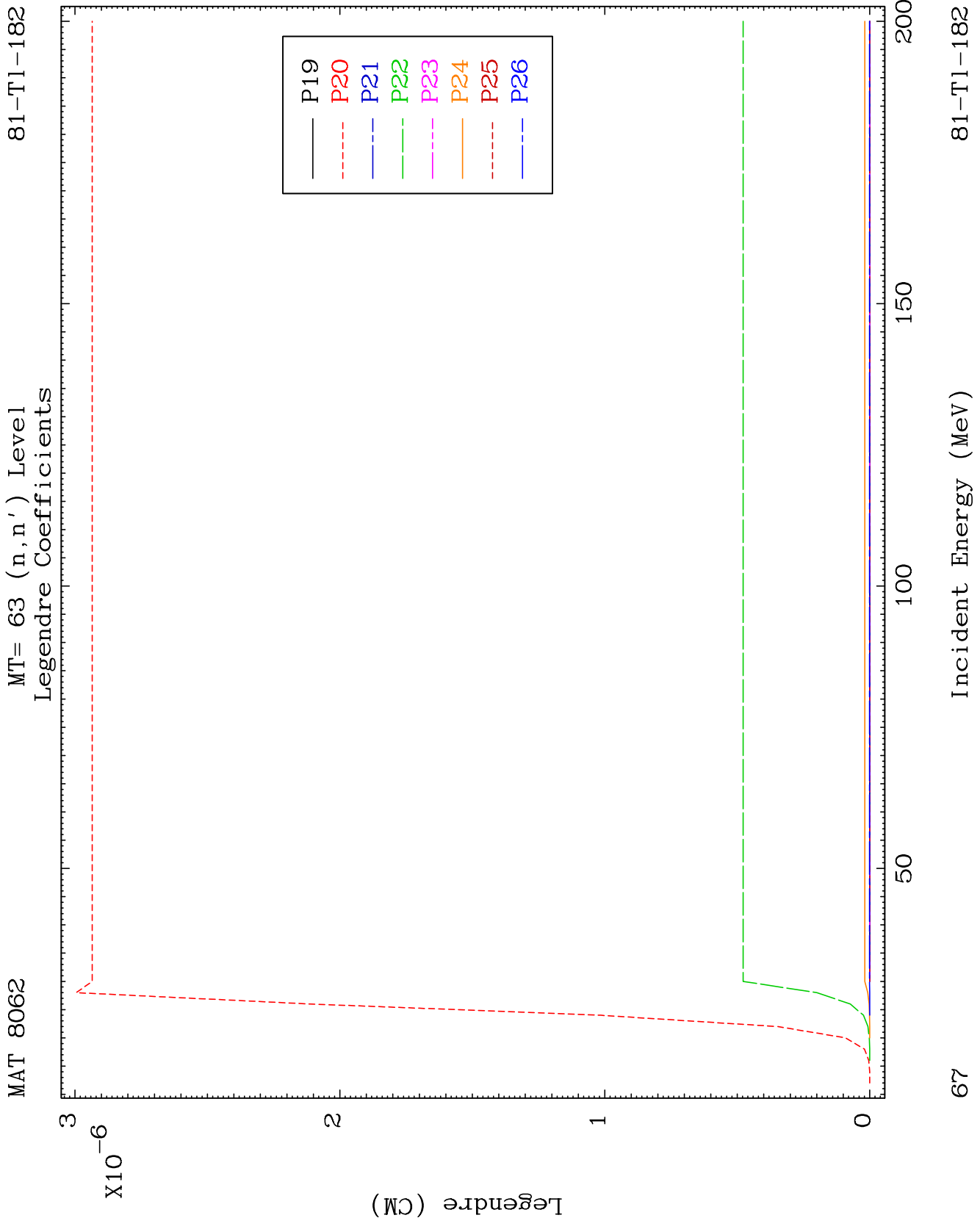
81-Tl-182



66

Incident Energy (MeV)

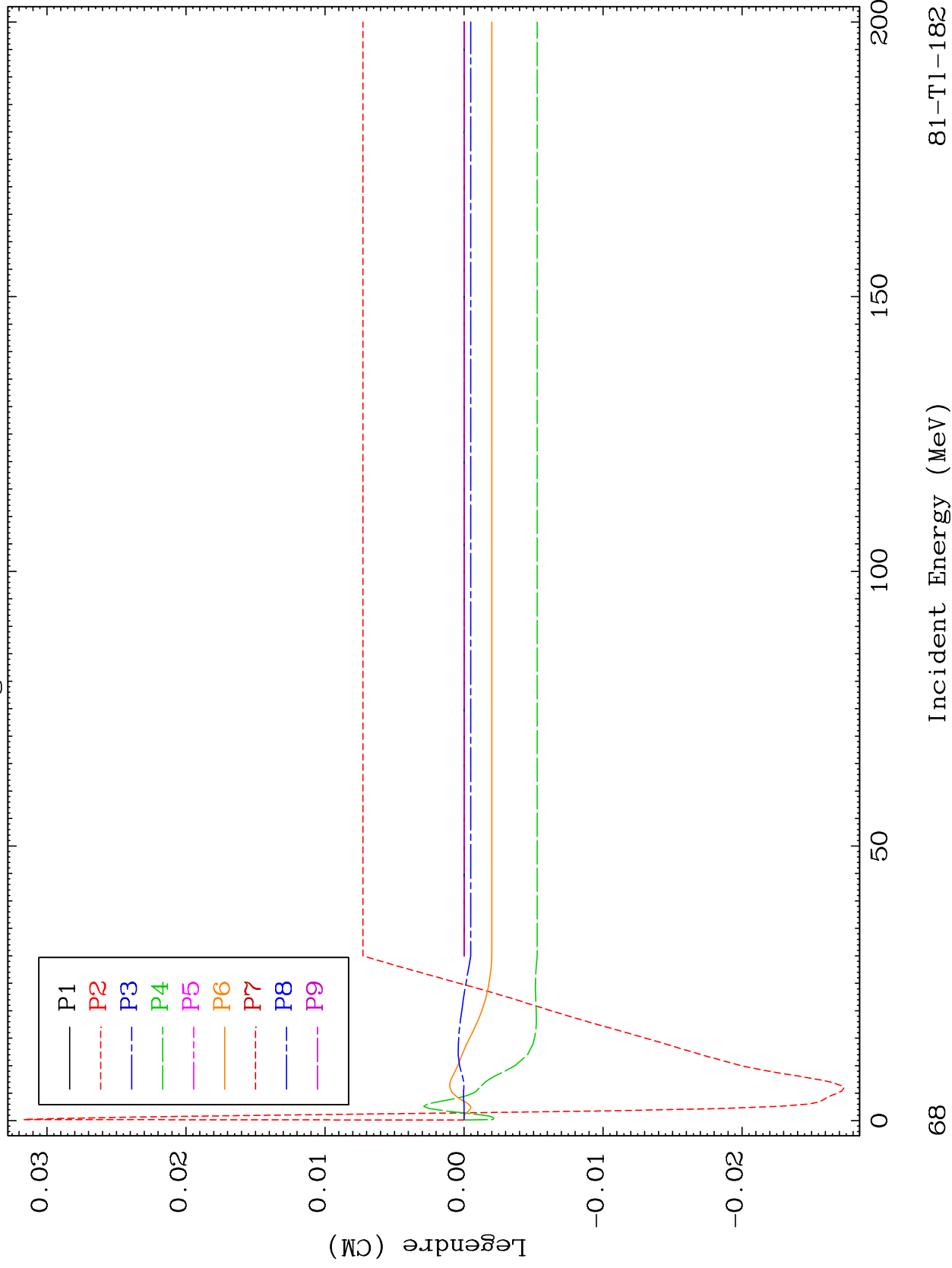
81-Tl-182



MAT 8062

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

81-Tl-182



81-Tl-182

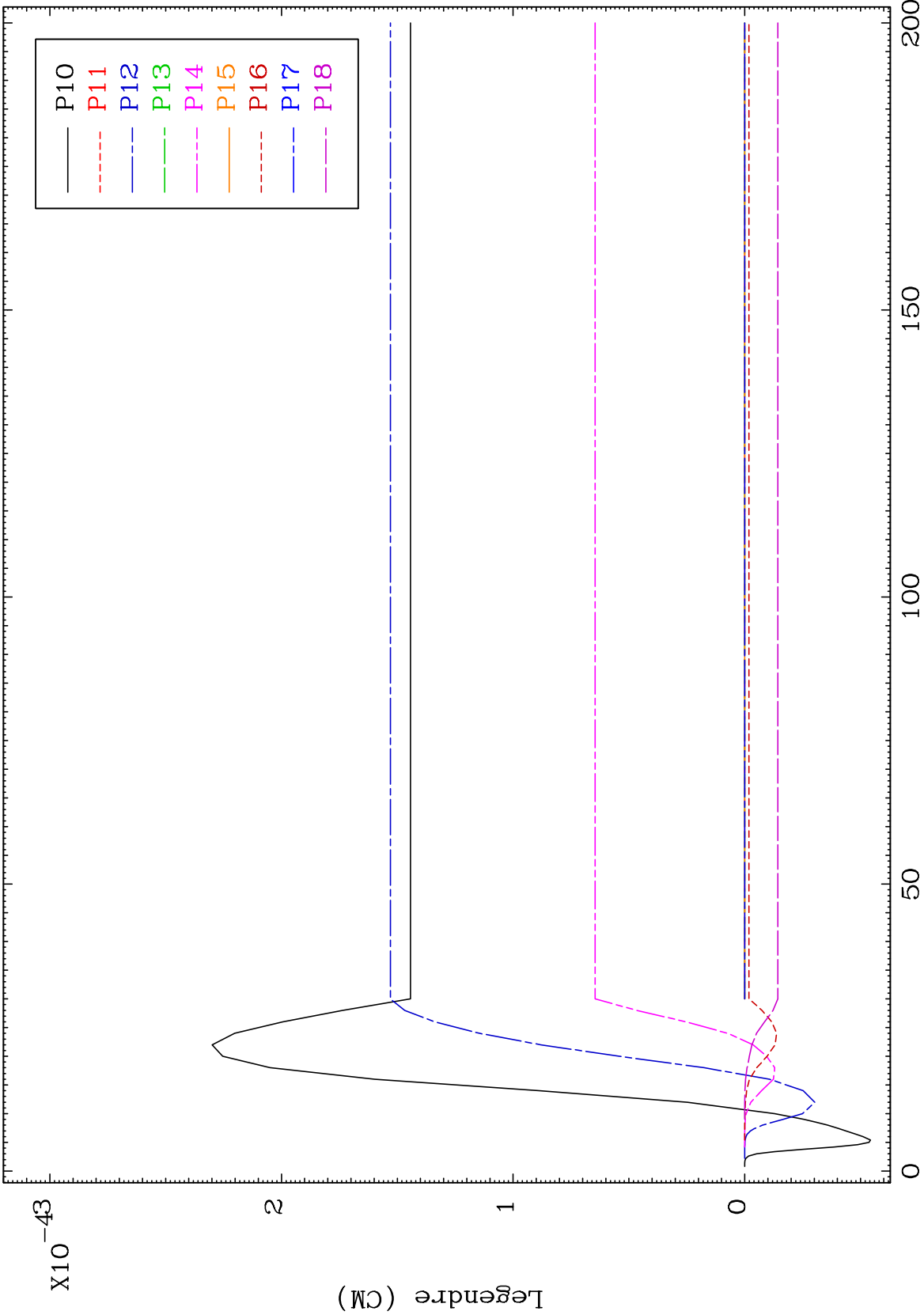
Incident Energy (MeV)

68

MAT 8062

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

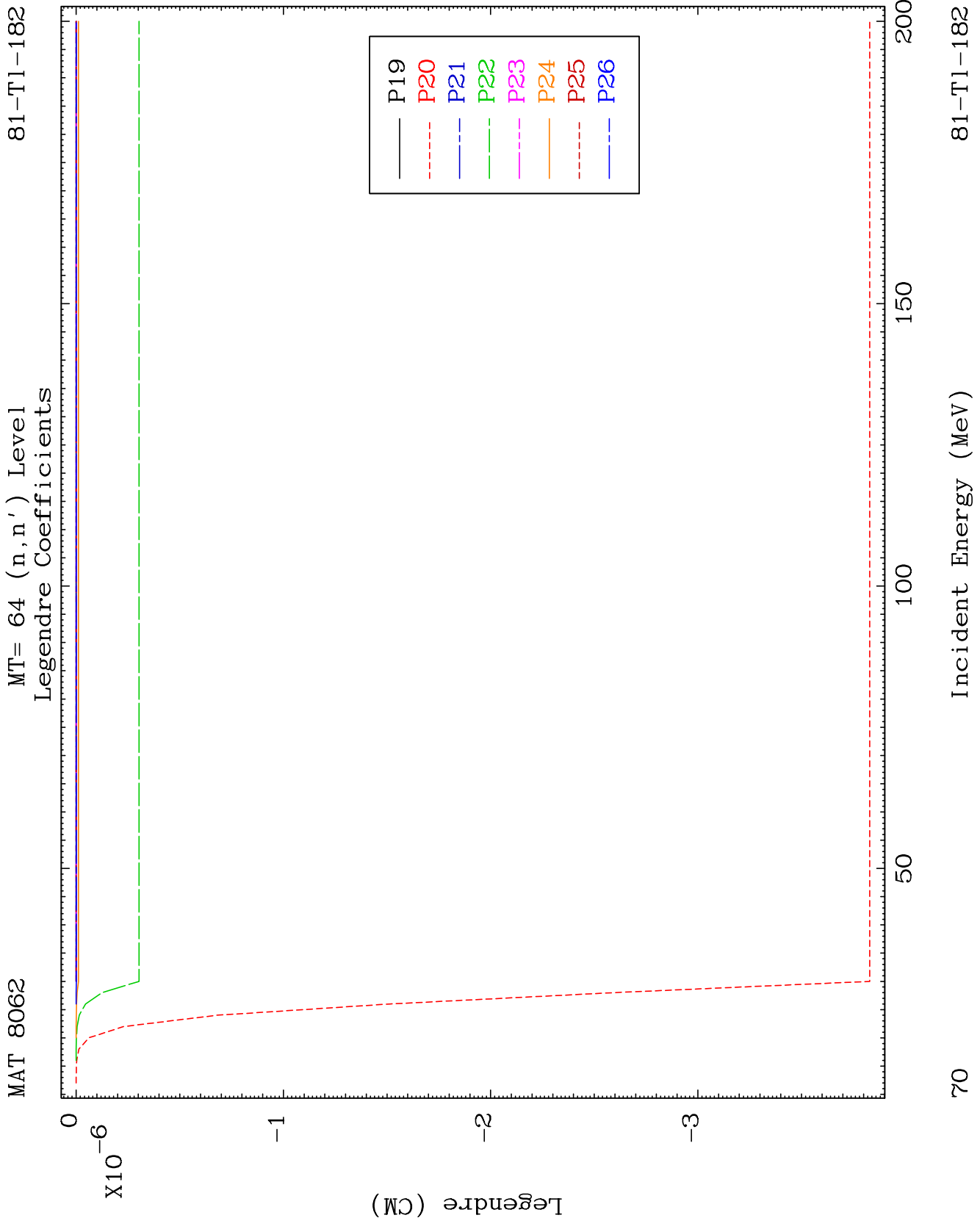
81-T1-182



69

Incident Energy (MeV)

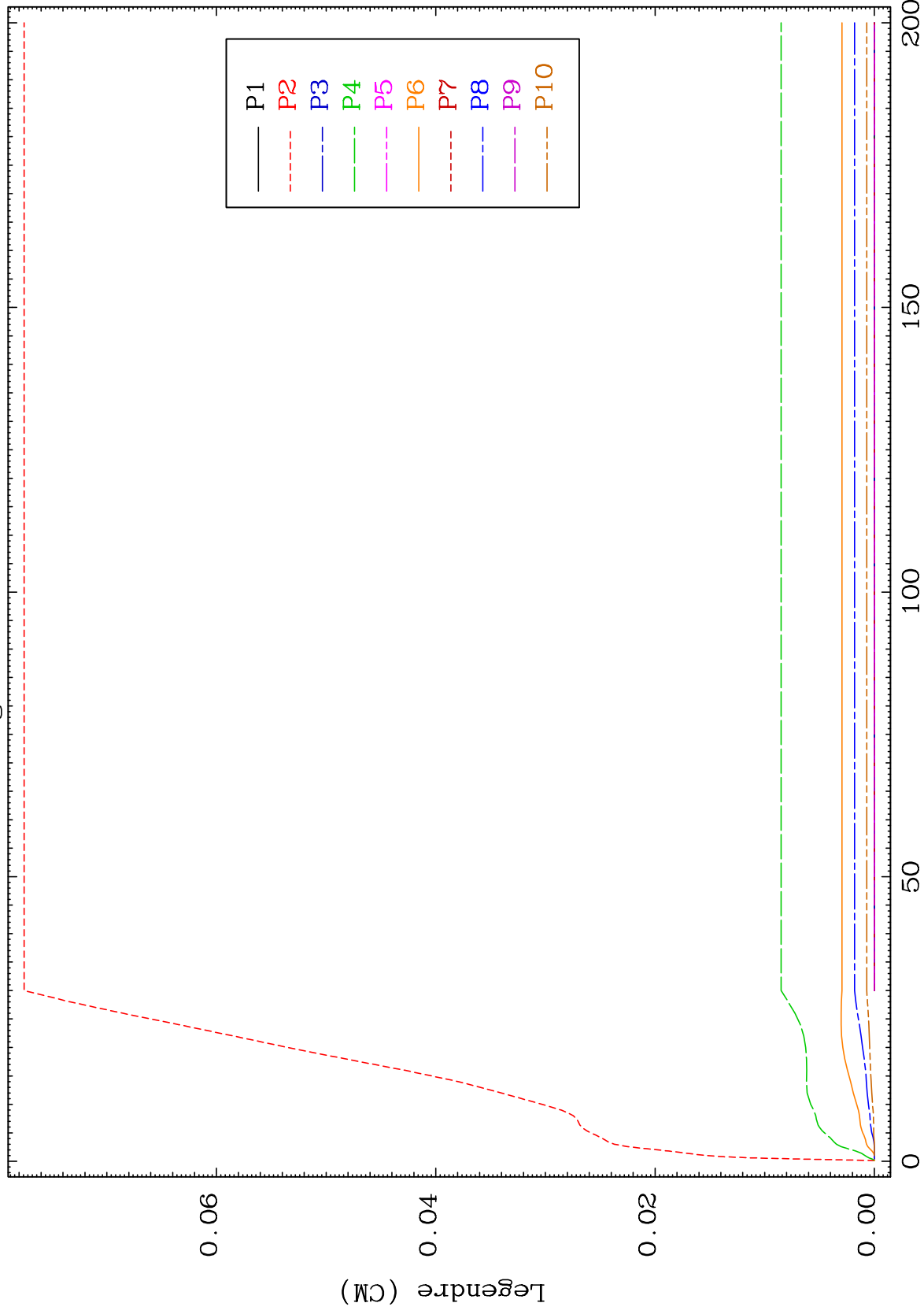
81-T1-182



MAT 8062

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

81-Tl-182



71

Incident Energy (MeV)

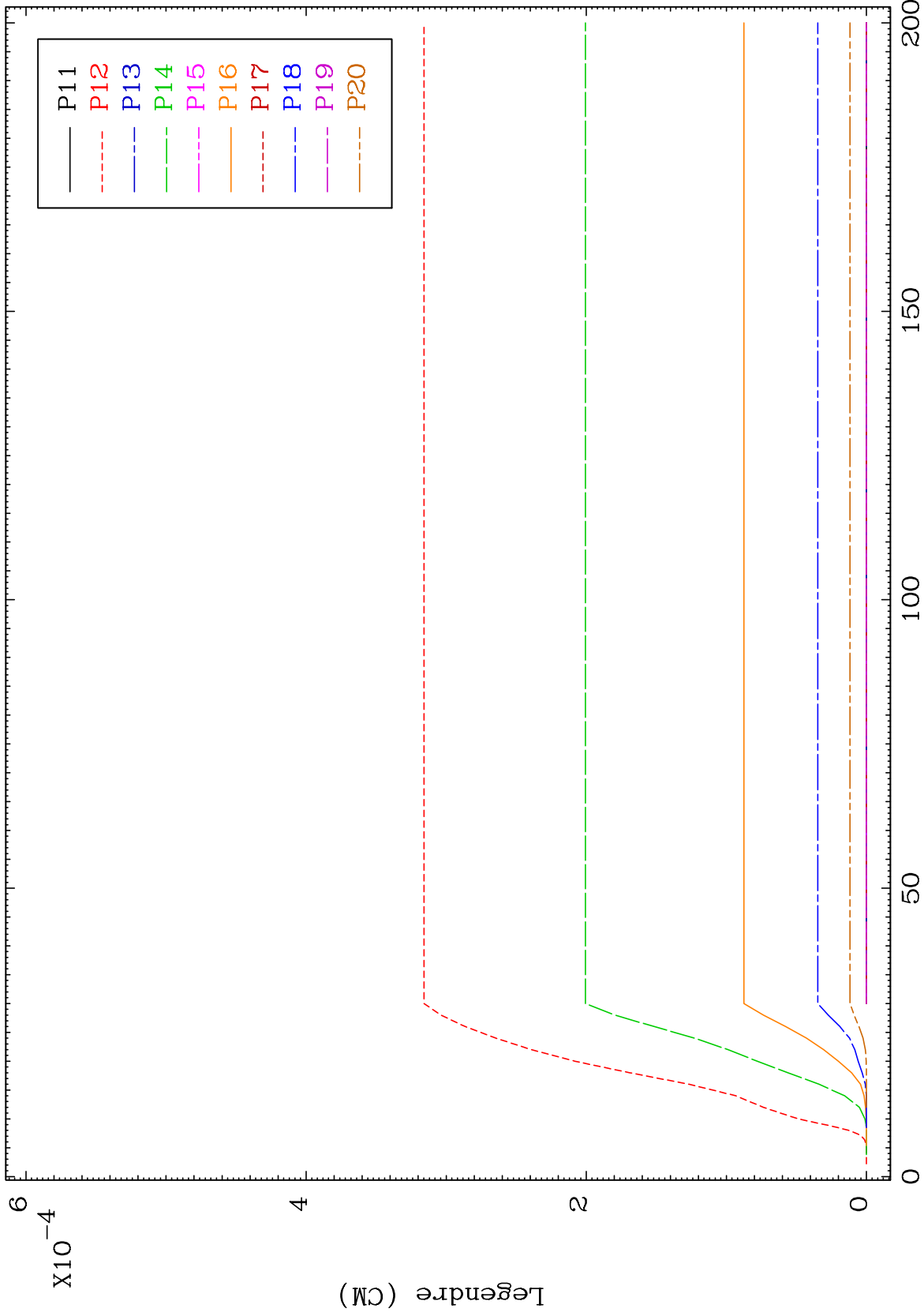
81-Tl-182



MAT 8062

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

81-T1-182



72

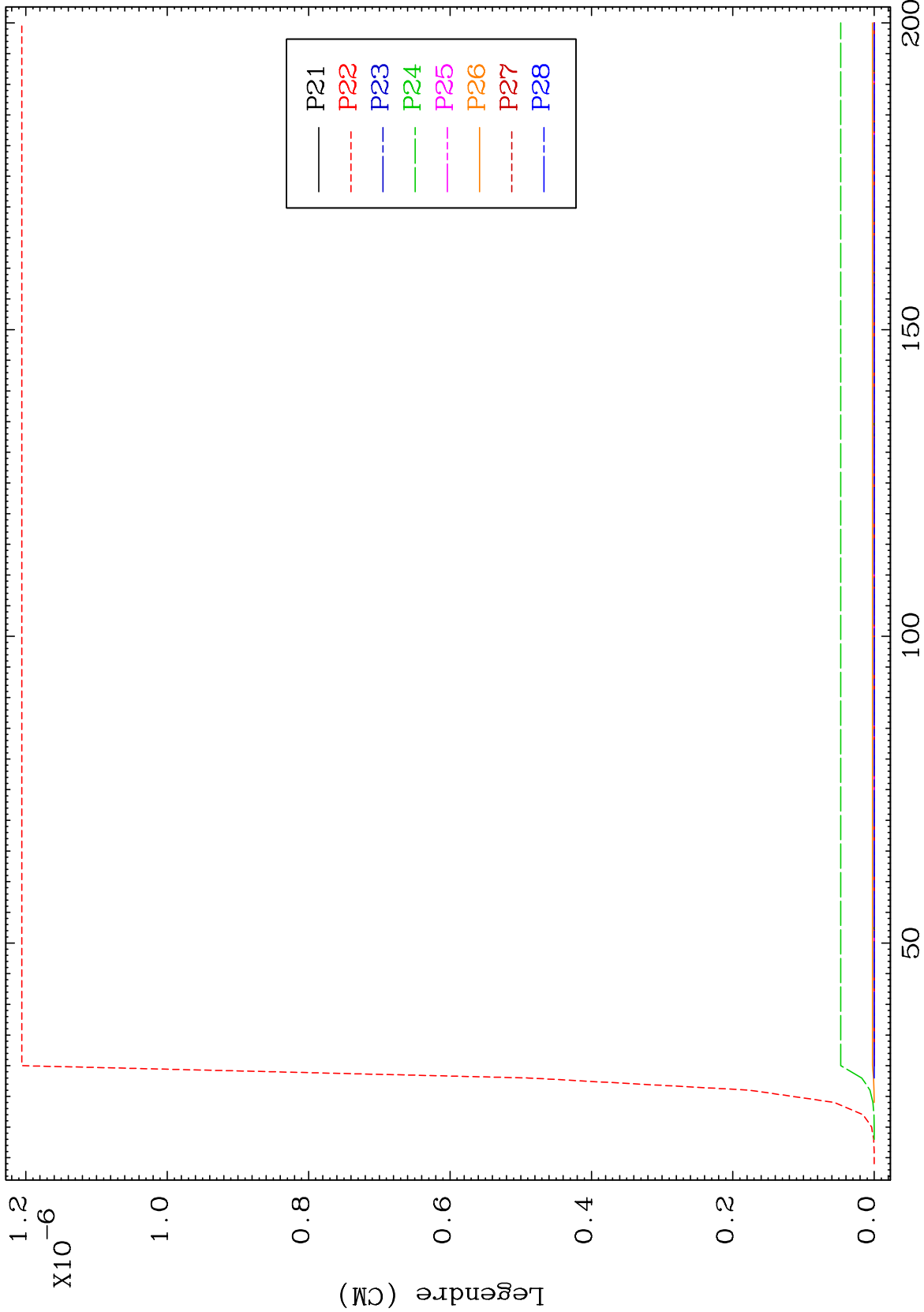
Incident Energy (MeV)

81-T1-182

MAT 8062

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

81-Tl-182



73

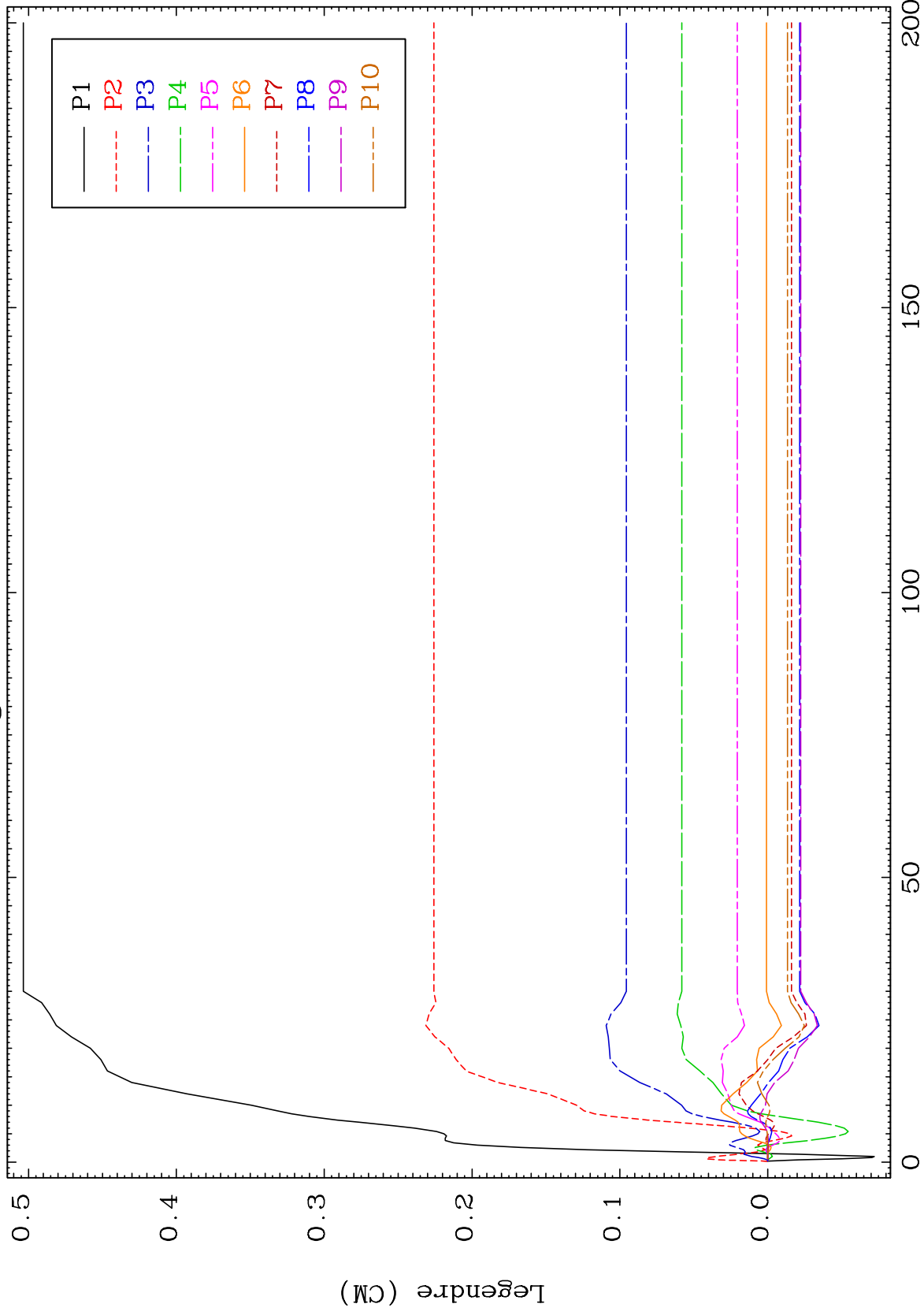
Incident Energy (MeV)

81-Tl-182

MAT 8062

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

81-Tl-182



74

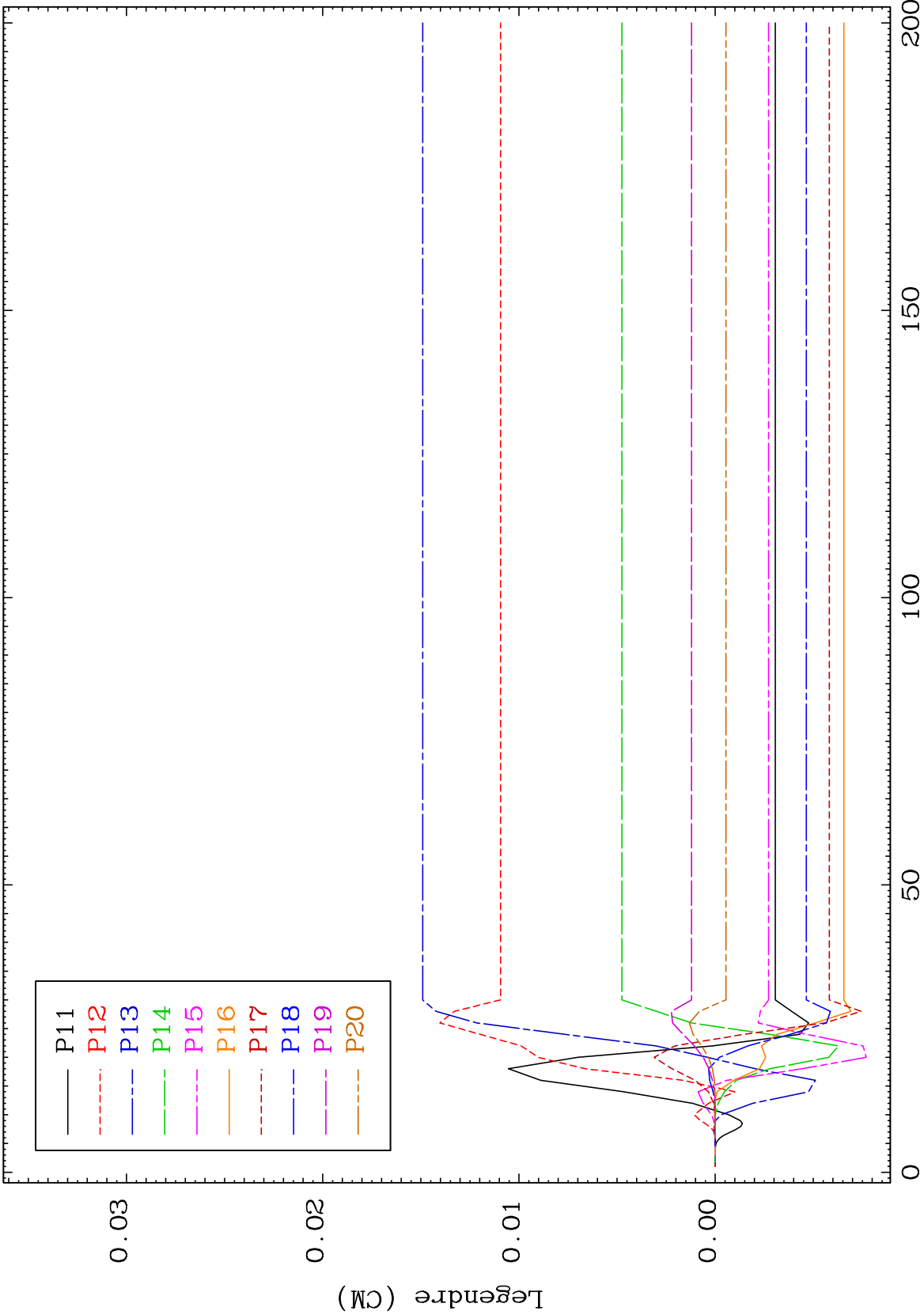
Incident Energy (MeV)

81-Tl-182

MAT 8062

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

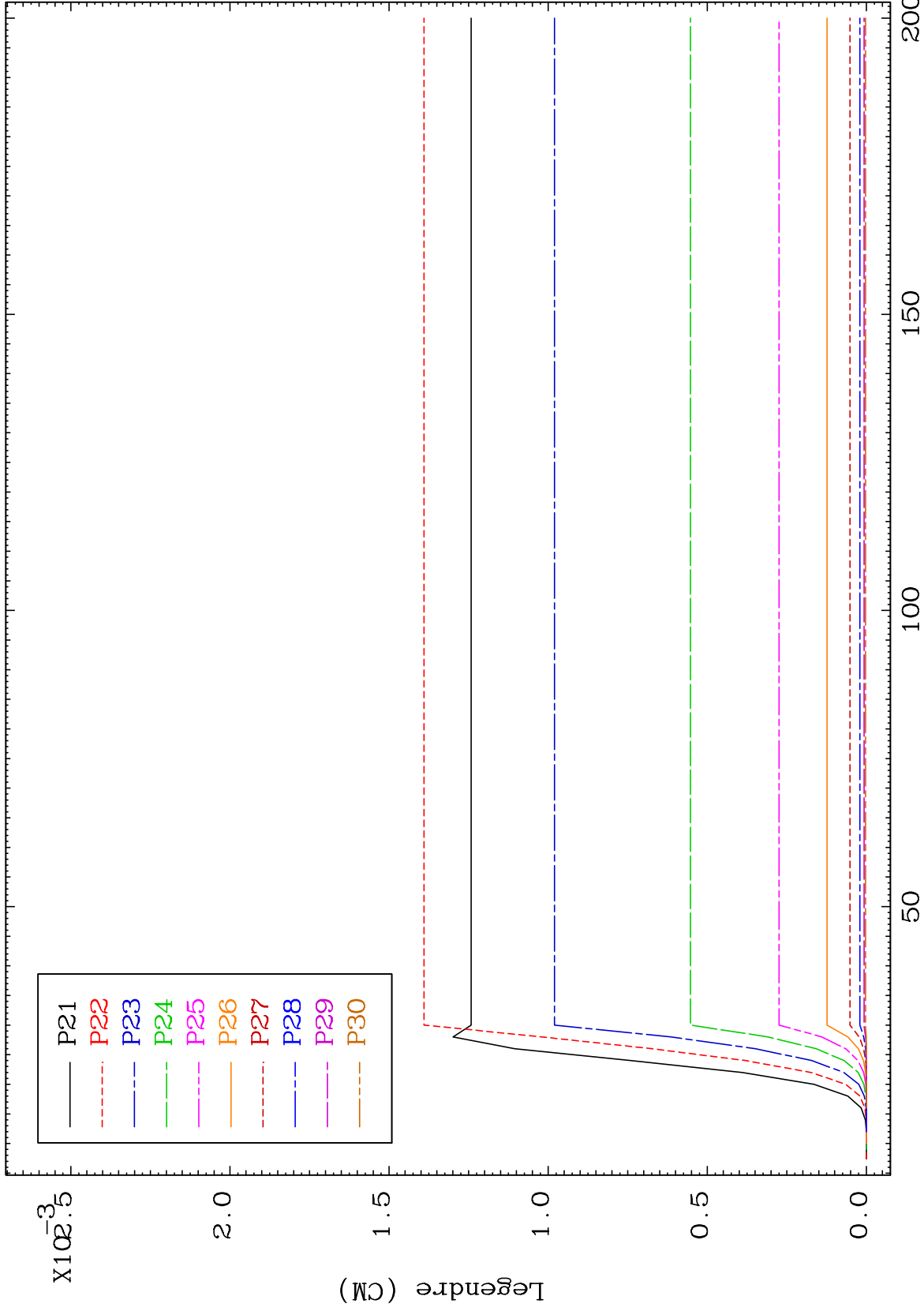
81-T1-182

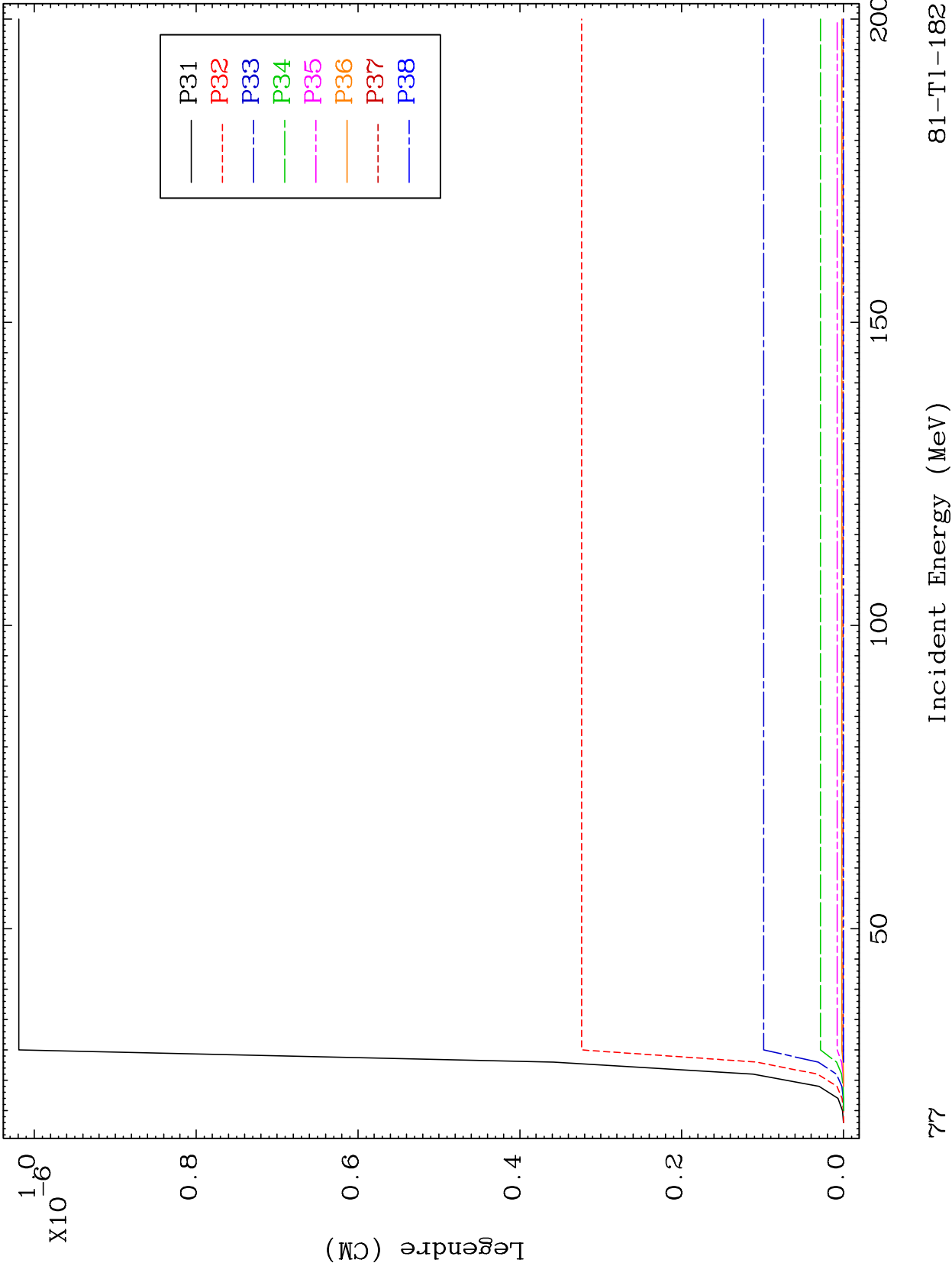


75

Incident Energy (MeV)

81-T1-182

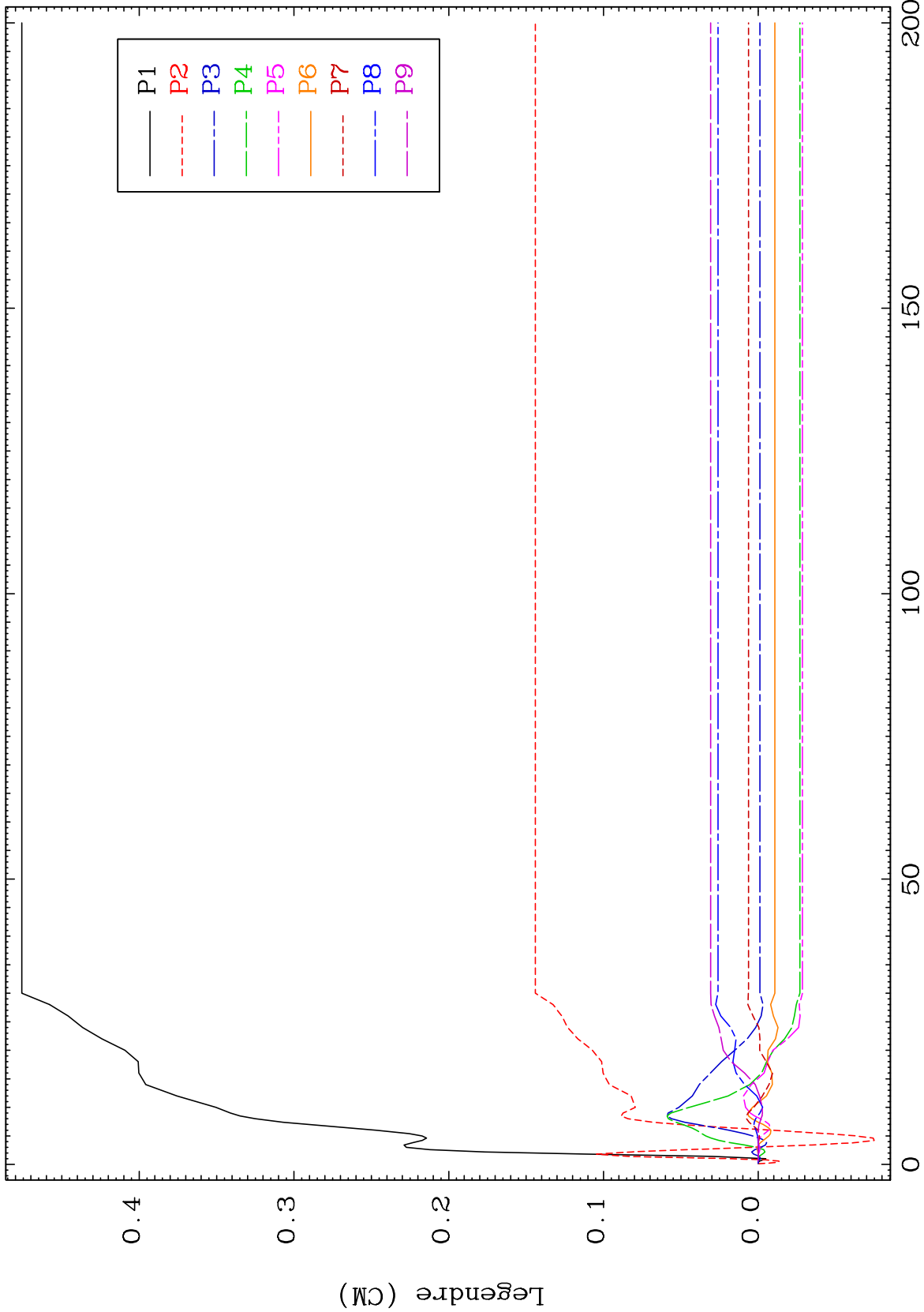




MAT 8062

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

81-T1-182



78

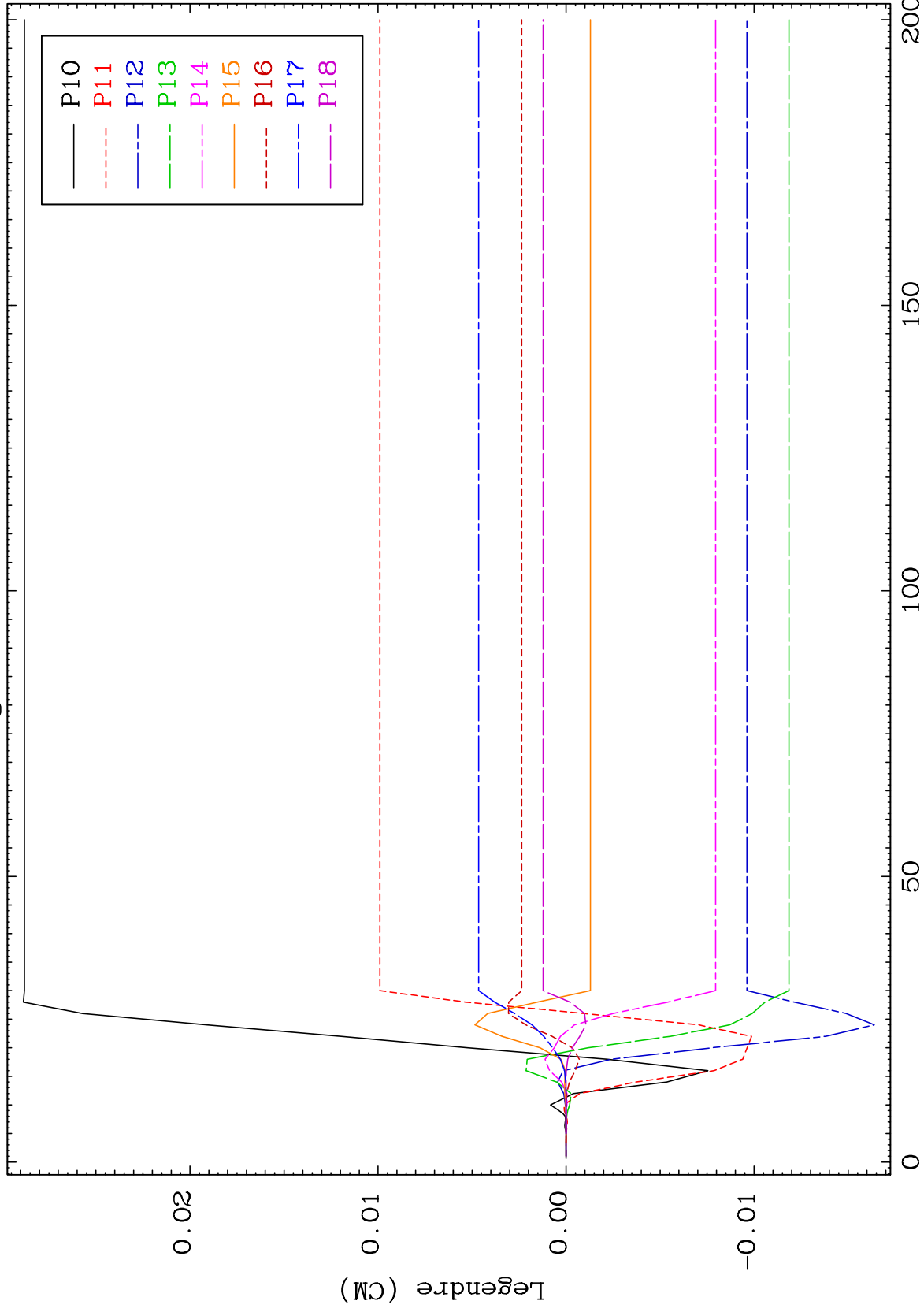
Incident Energy (MeV)

81-T1-182

MAT 8062

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

81-T1-182



79

Incident Energy (MeV)

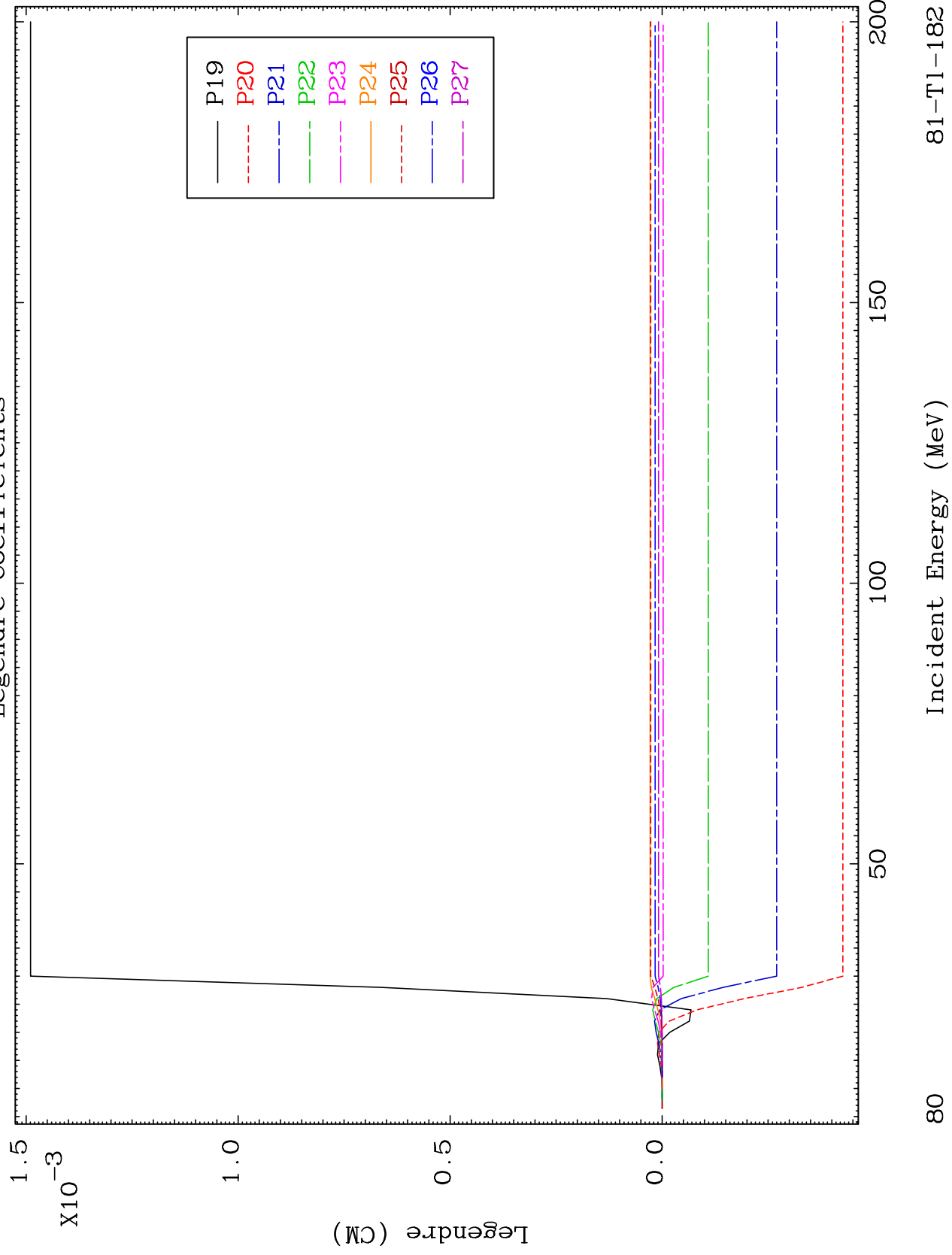
81-T1-182



MAT 8062

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

81-Tl-182



81-Tl-182

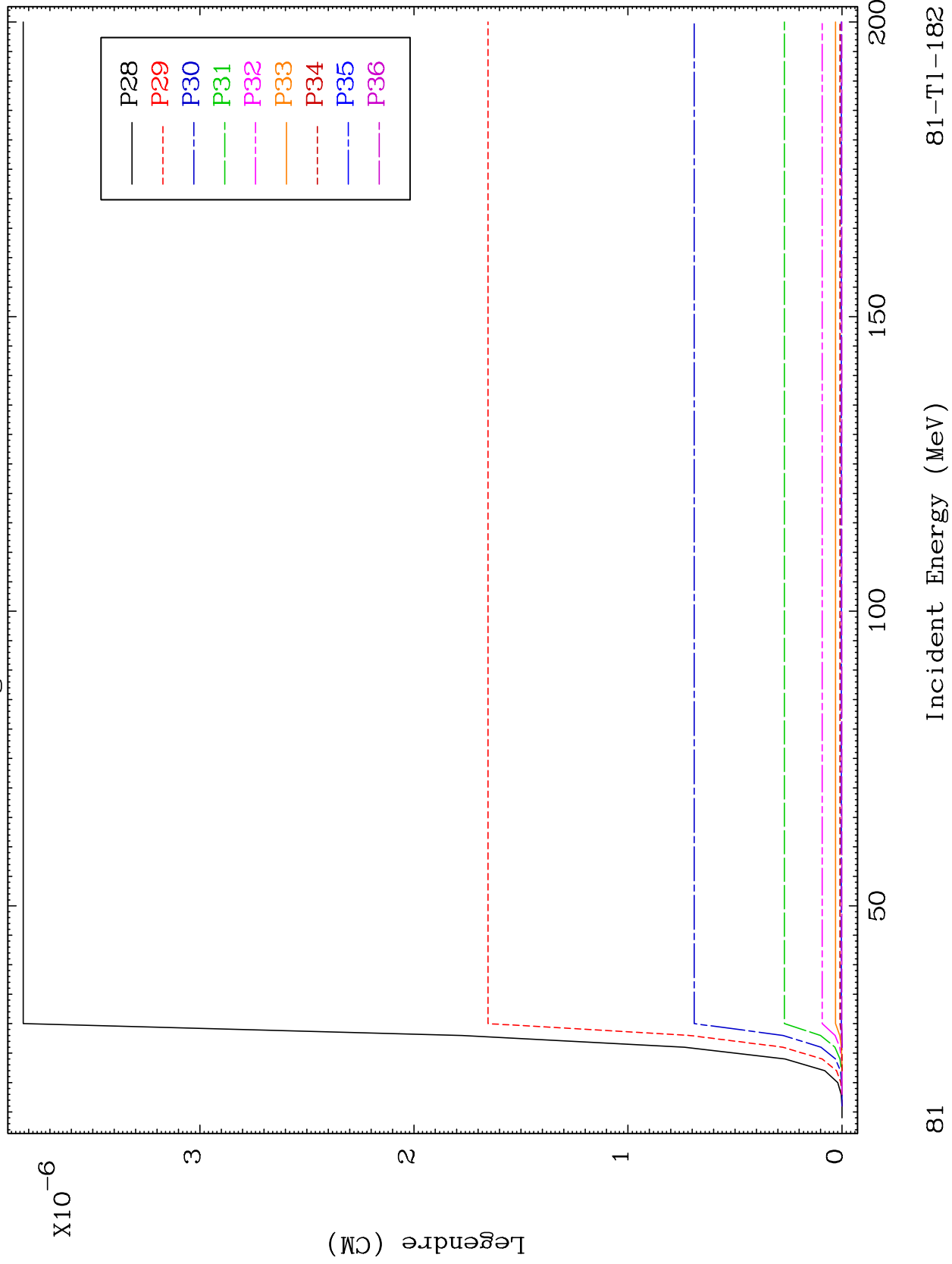
Incident Energy (MeV)

80

MAT 8062

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

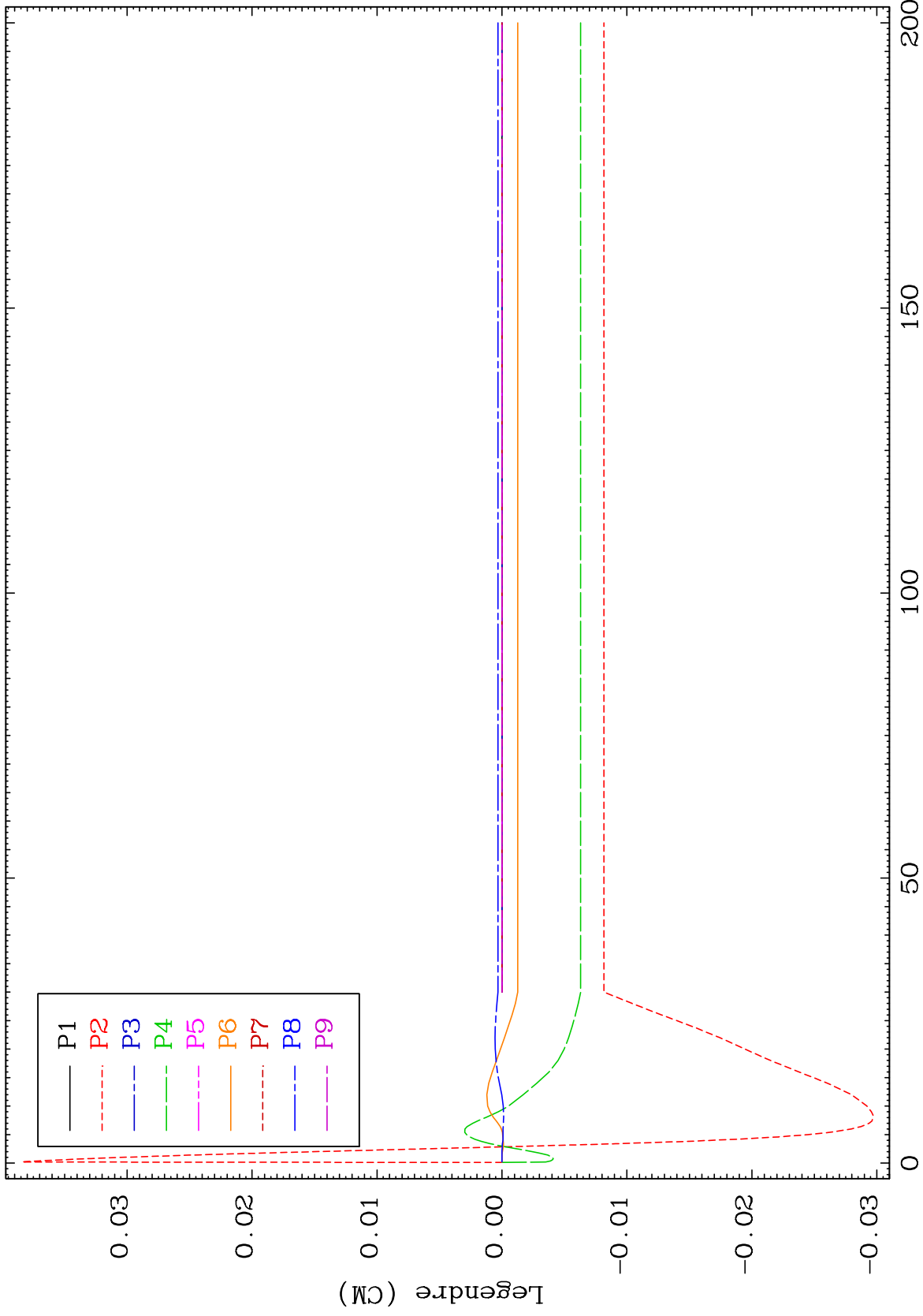
81-T1-182



MAT 8062

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

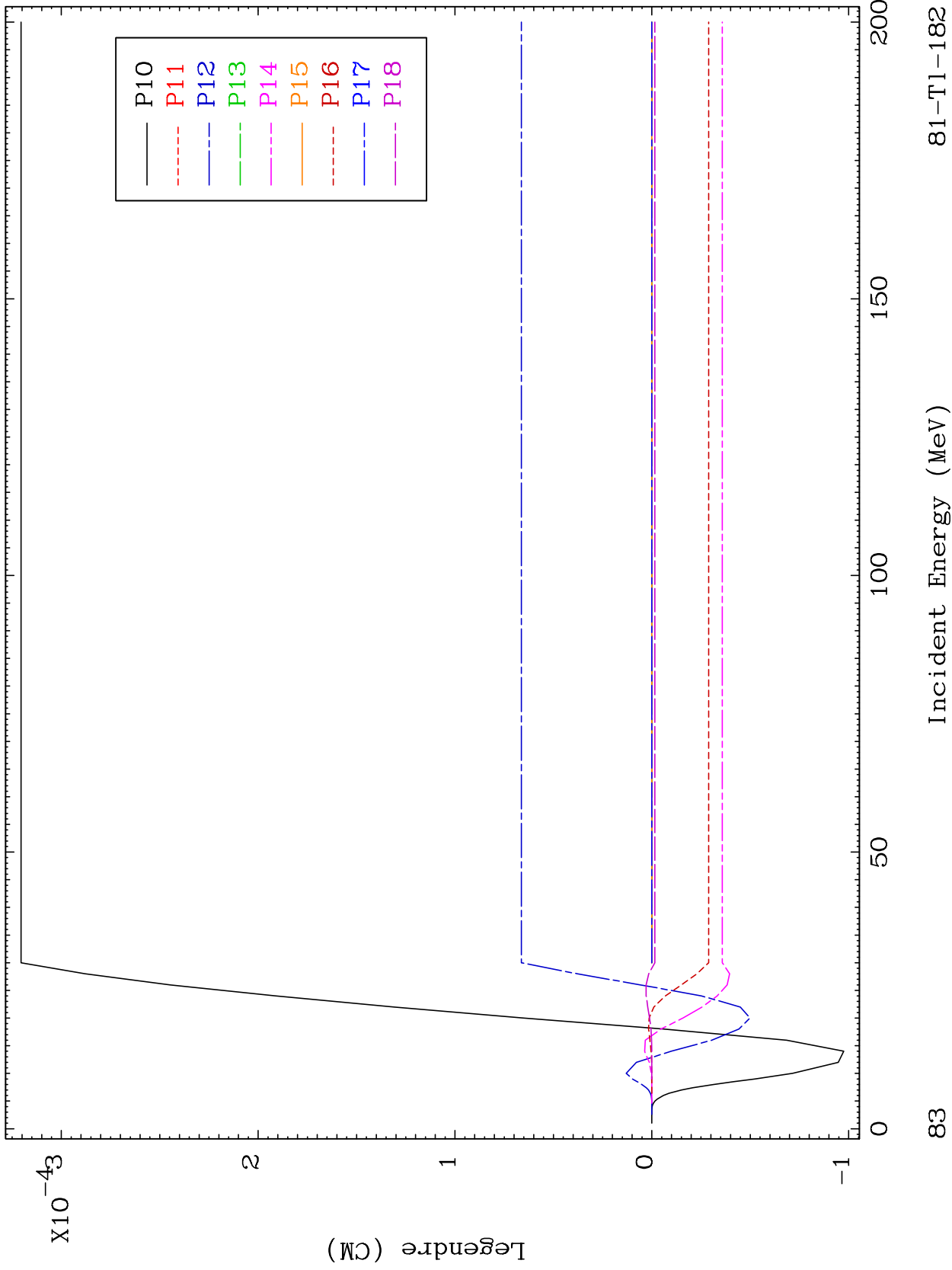
81-T1-182

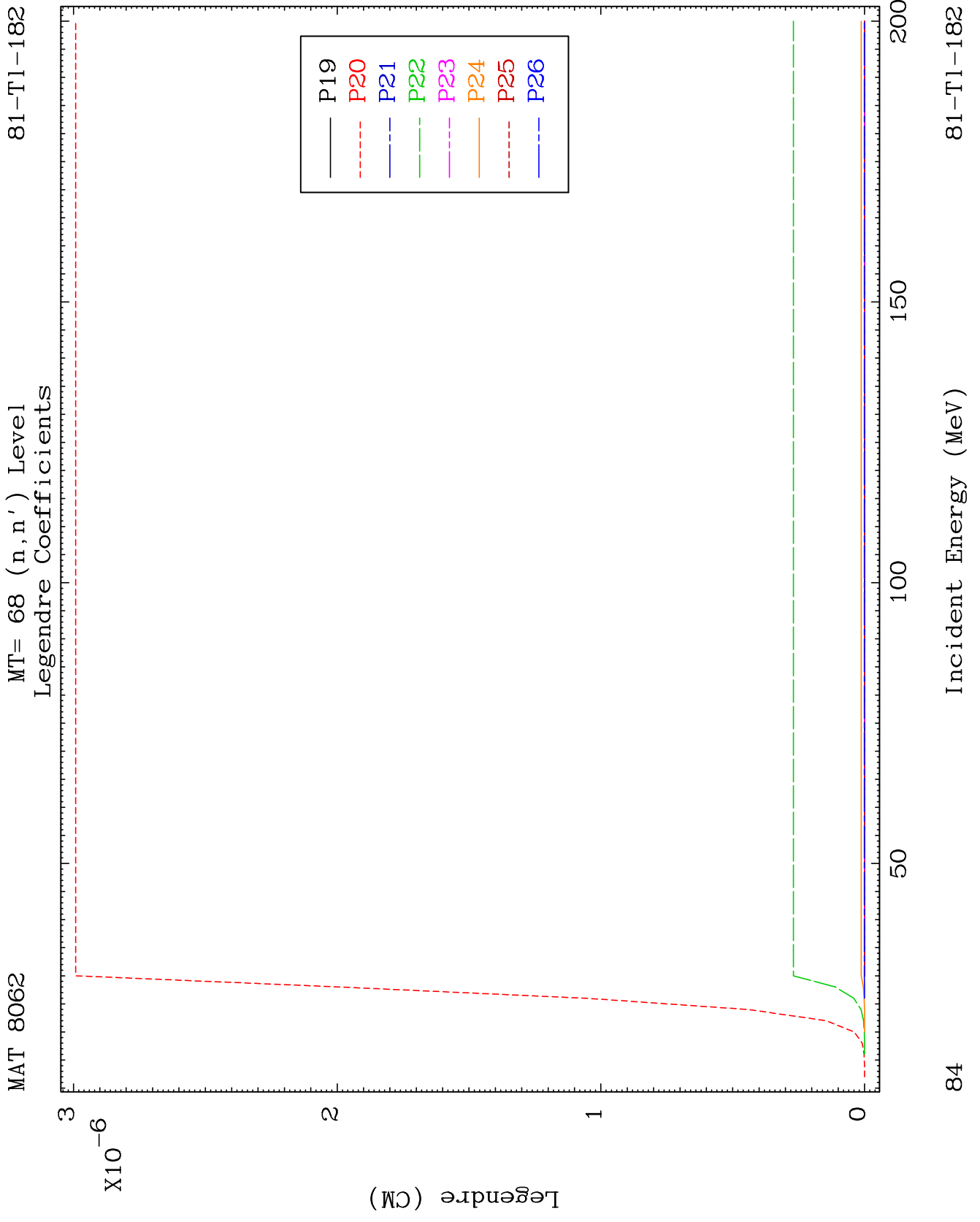


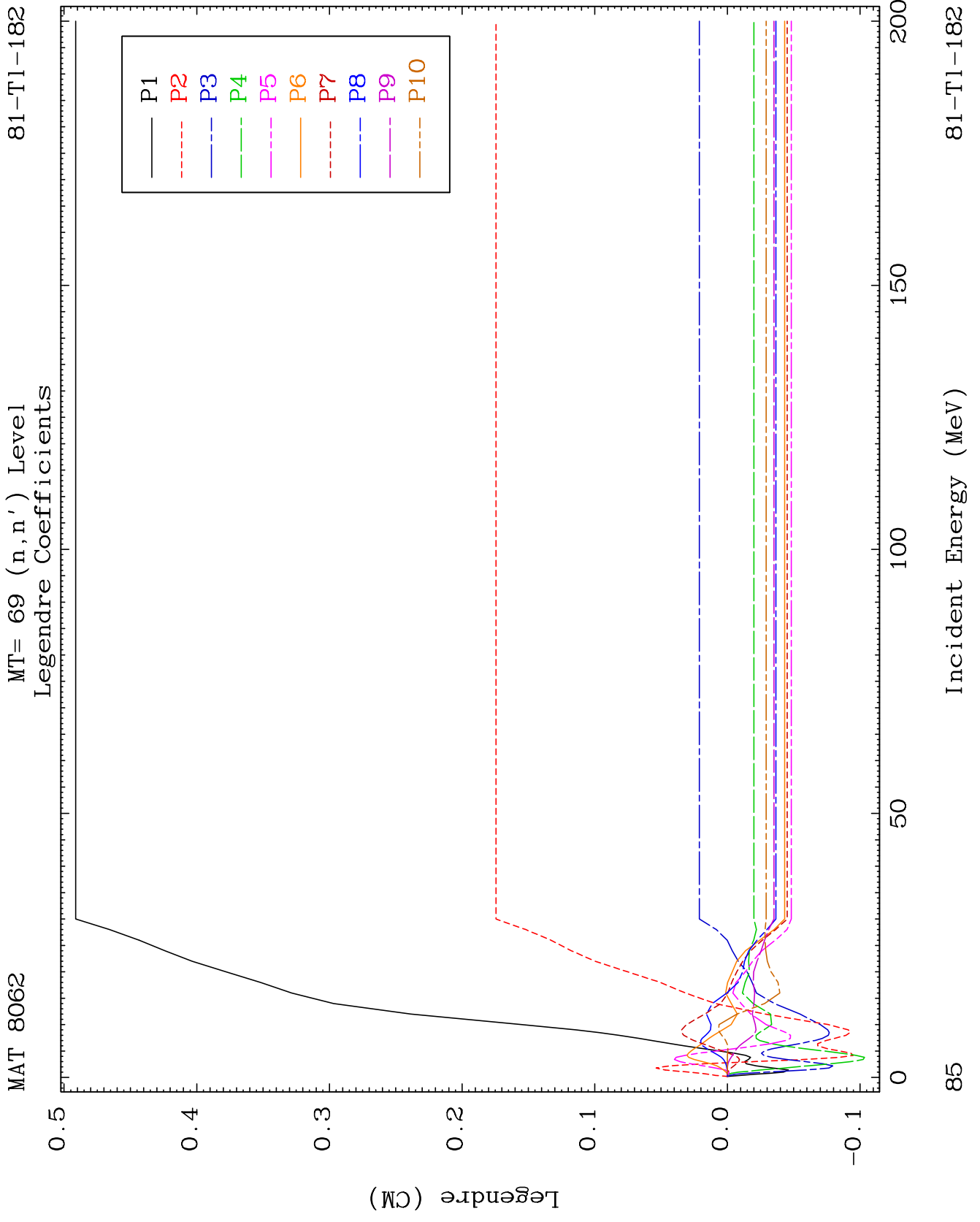
82

Incident Energy (MeV)

81-T1-182





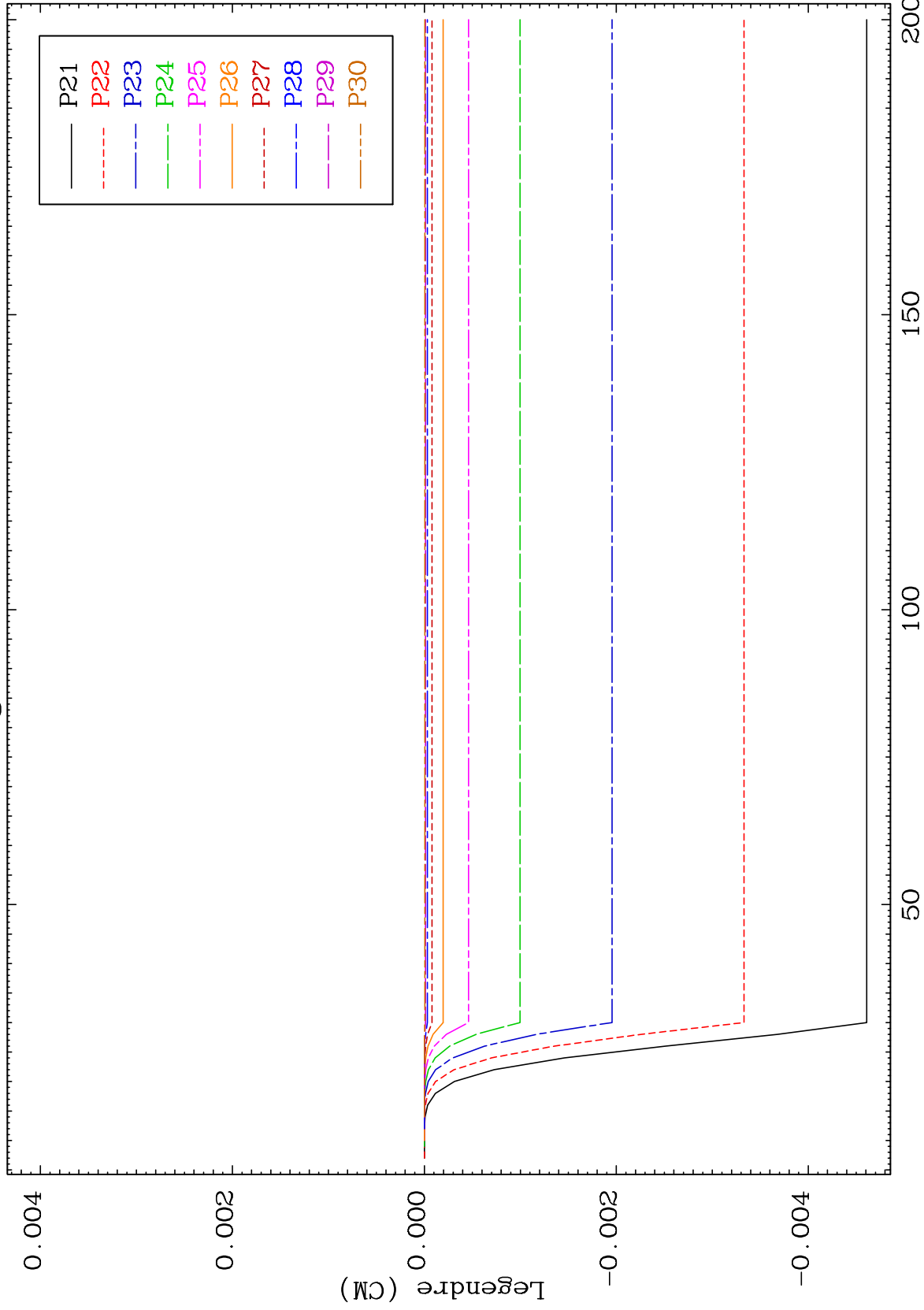




MAT 8062

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

81-T1-182

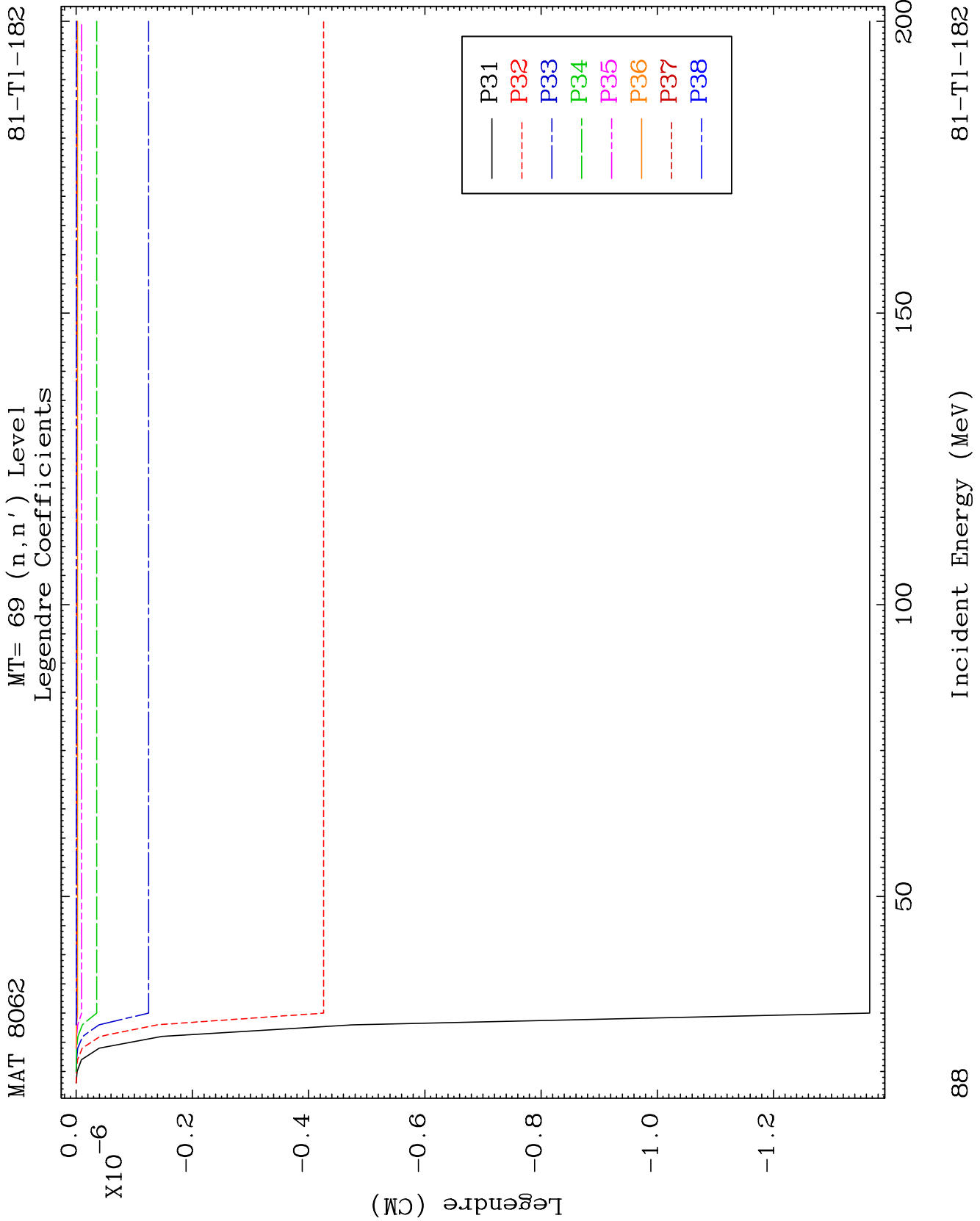


87

Incident Energy (MeV)

81-T1-182

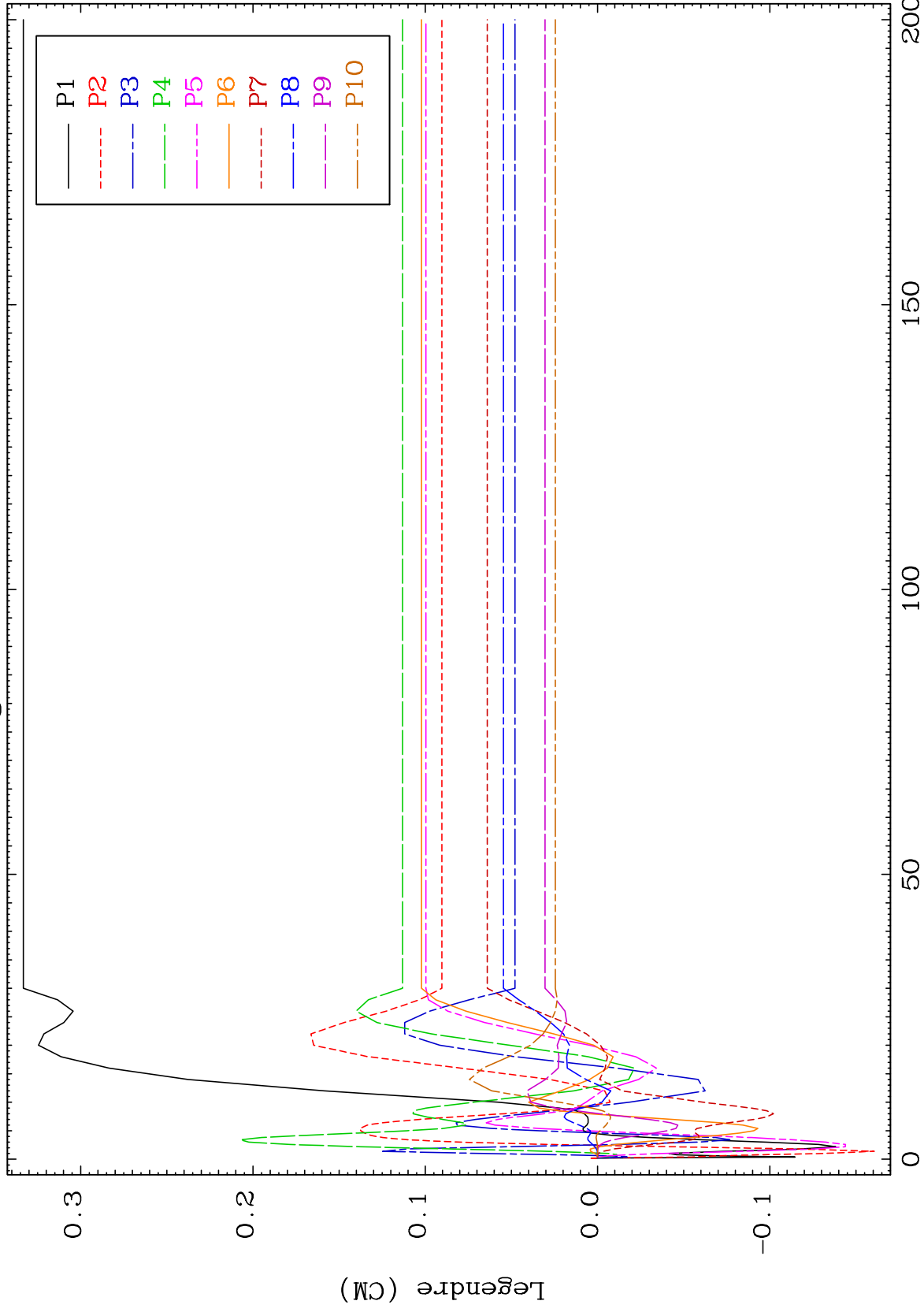




MAT 8062

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

81-T1-182

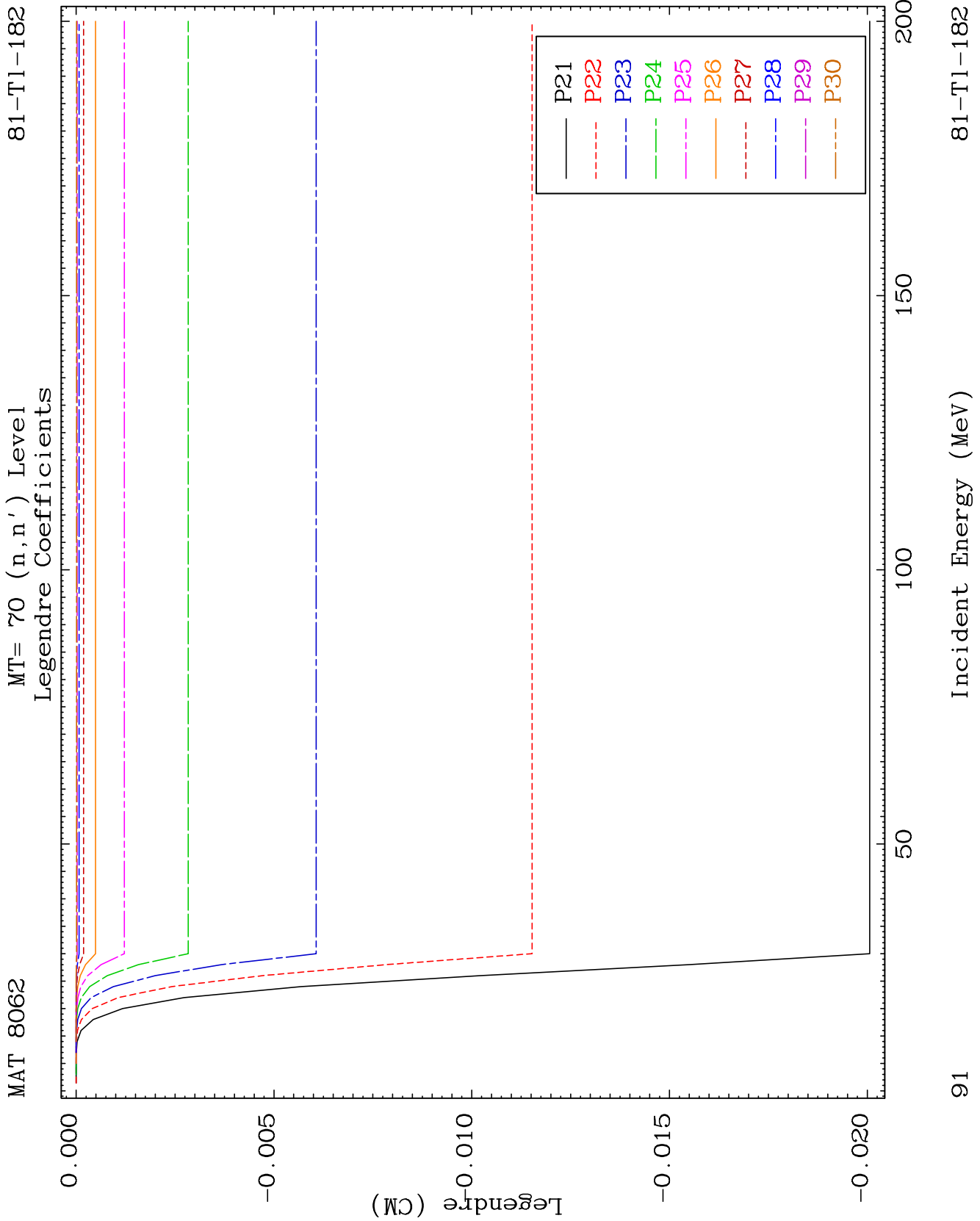


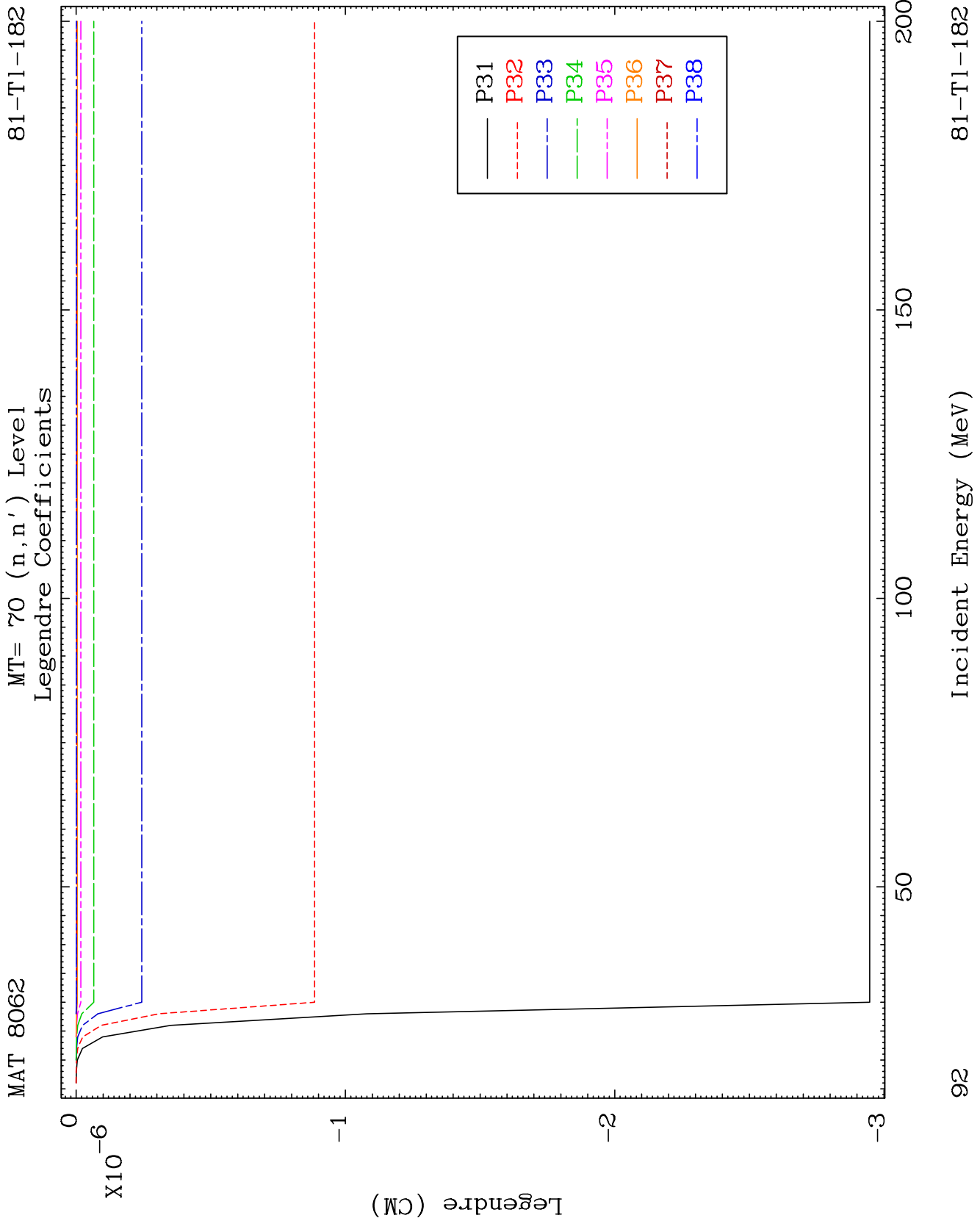
89

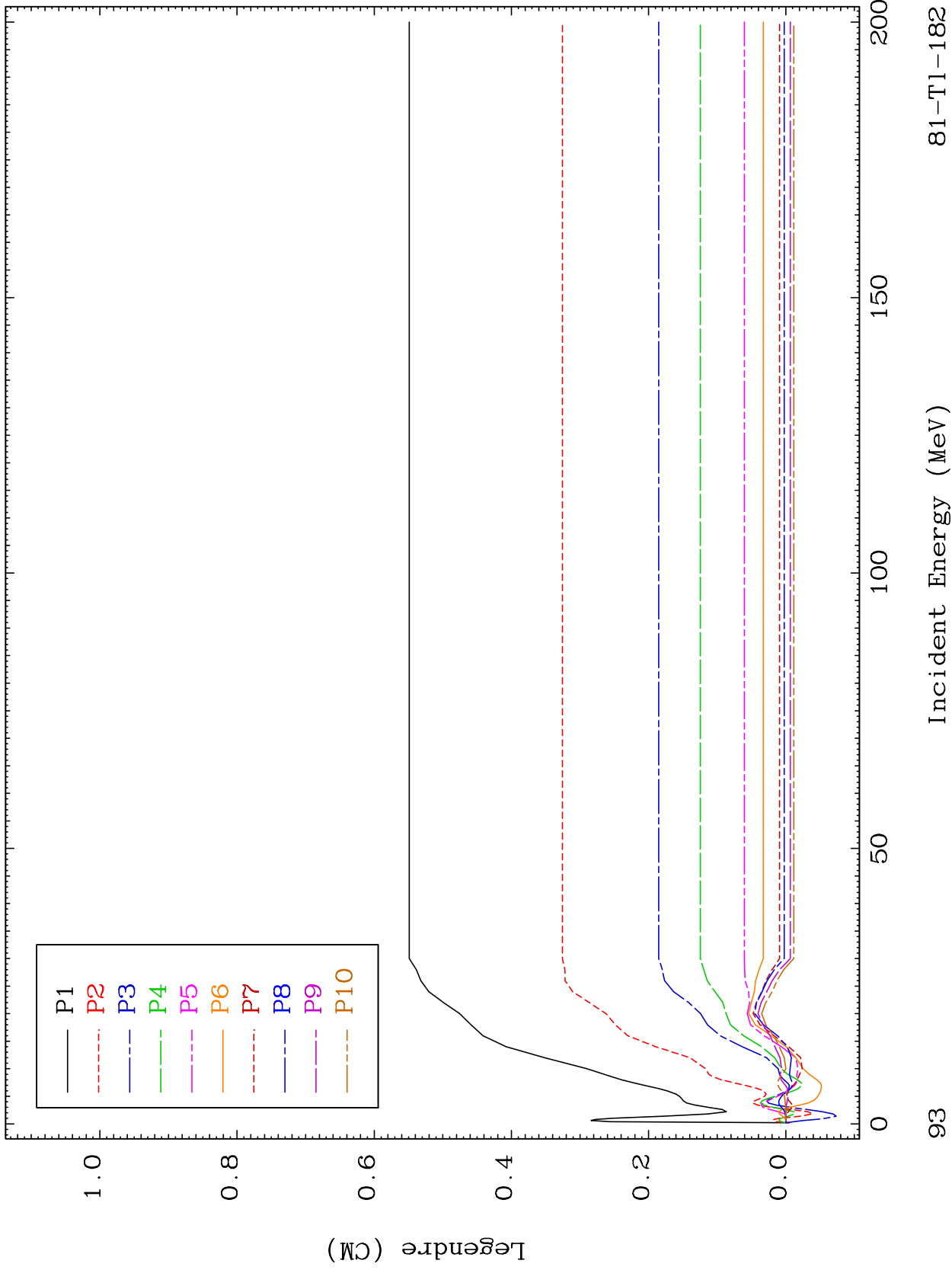
Incident Energy (MeV)

81-T1-182





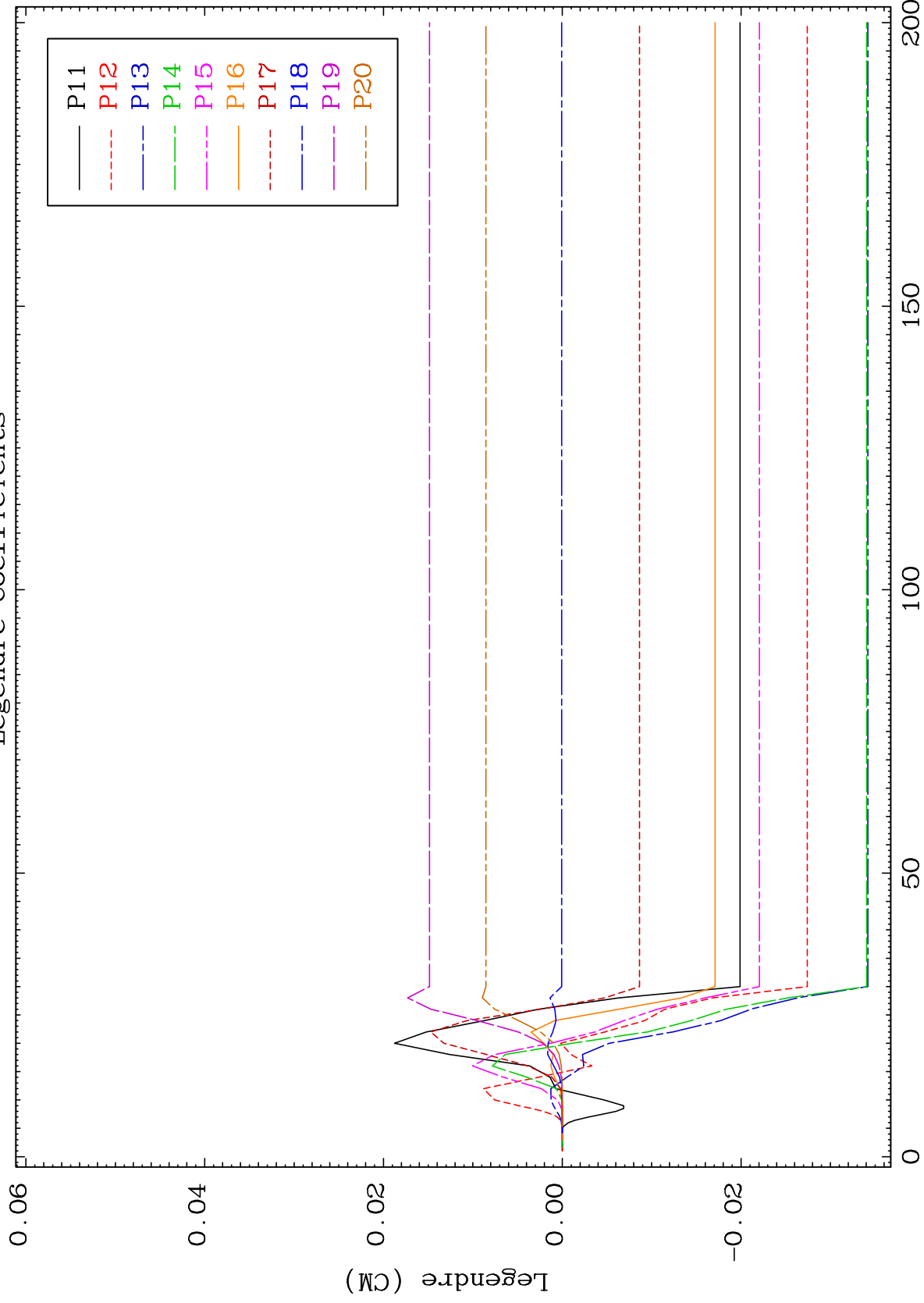




MAT 8062

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

81-T1-182



94

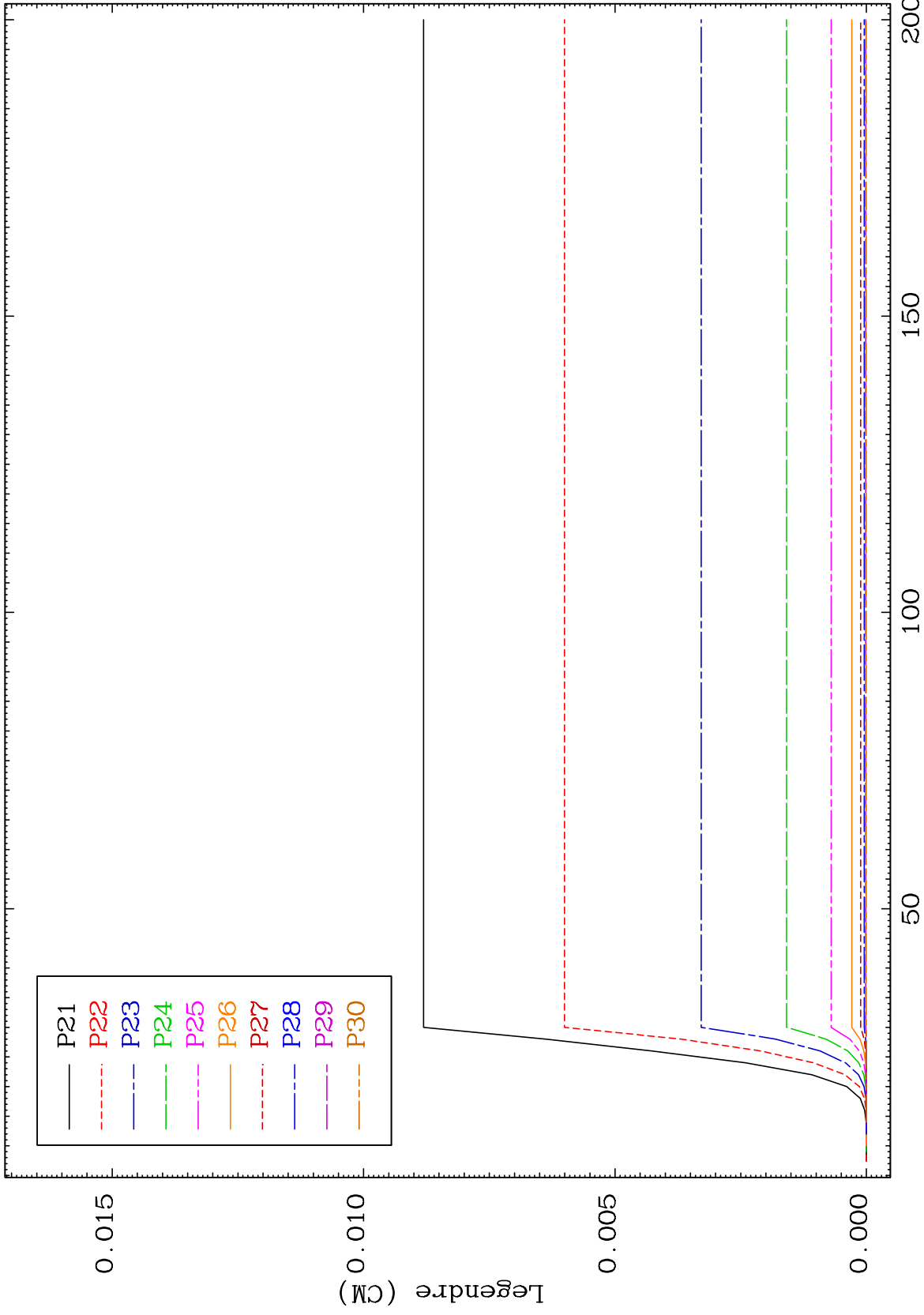
Incident Energy (MeV)

81-T1-182

MAT 8062

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

81-Tl-182



95

Incident Energy (MeV)

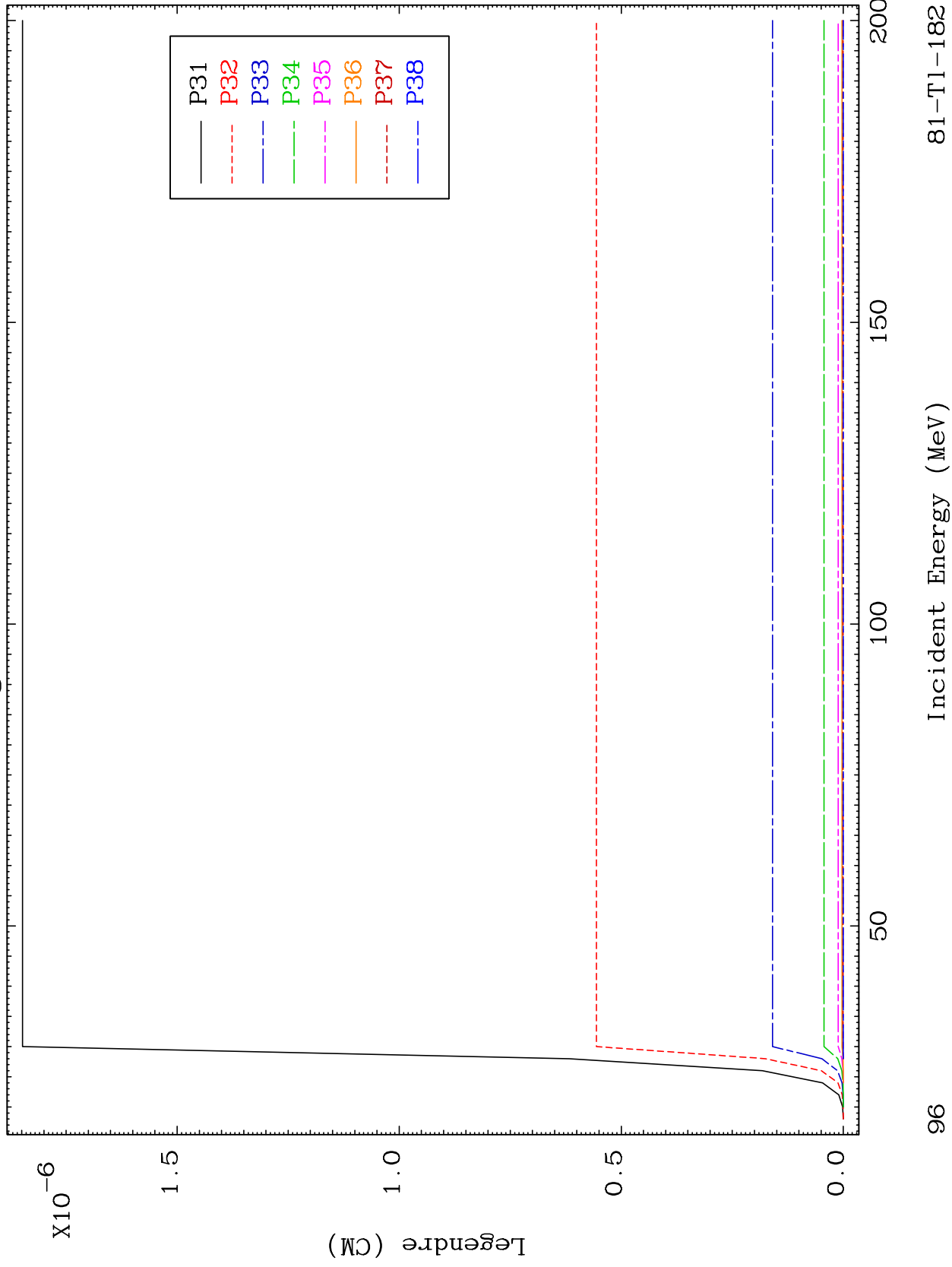
81-Tl-182



MAT 8062

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

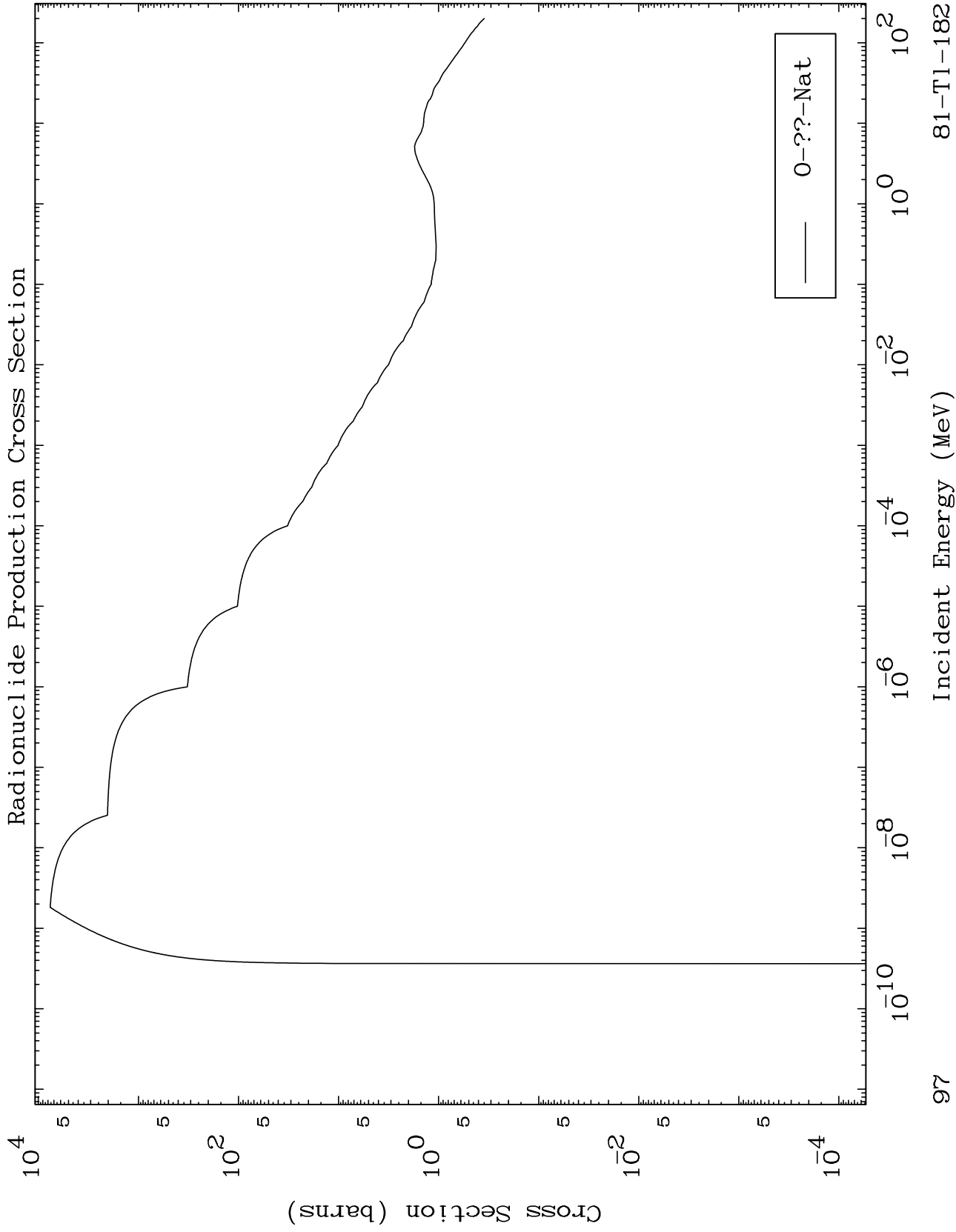
81-T1-182



MAT 8062

Fission

81-Tl-182

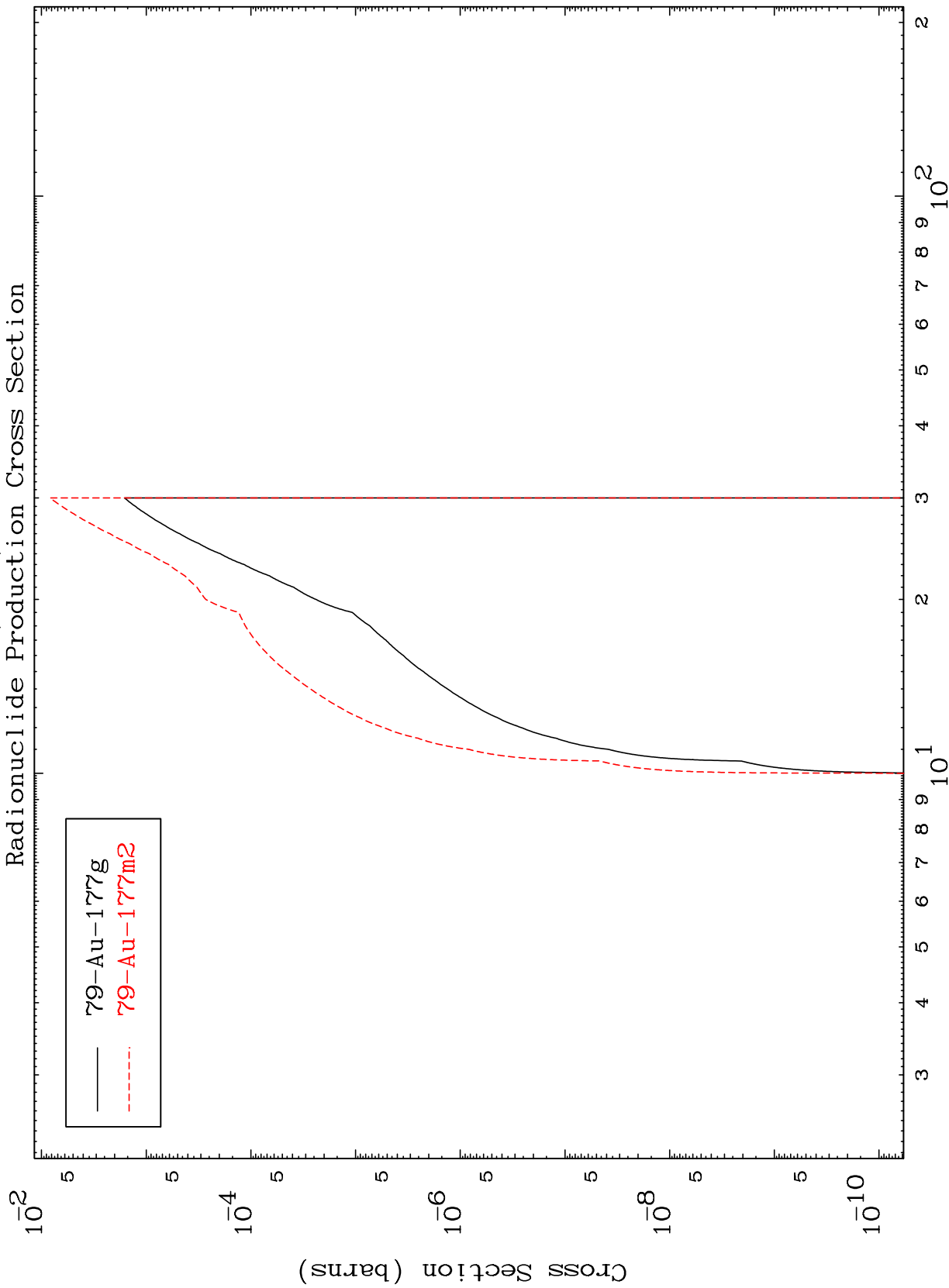


MAT 8062

$(n,2n) \alpha$

81-Tl-182

Radionuclide Production Cross Section



98

Incident Energy (MeV)

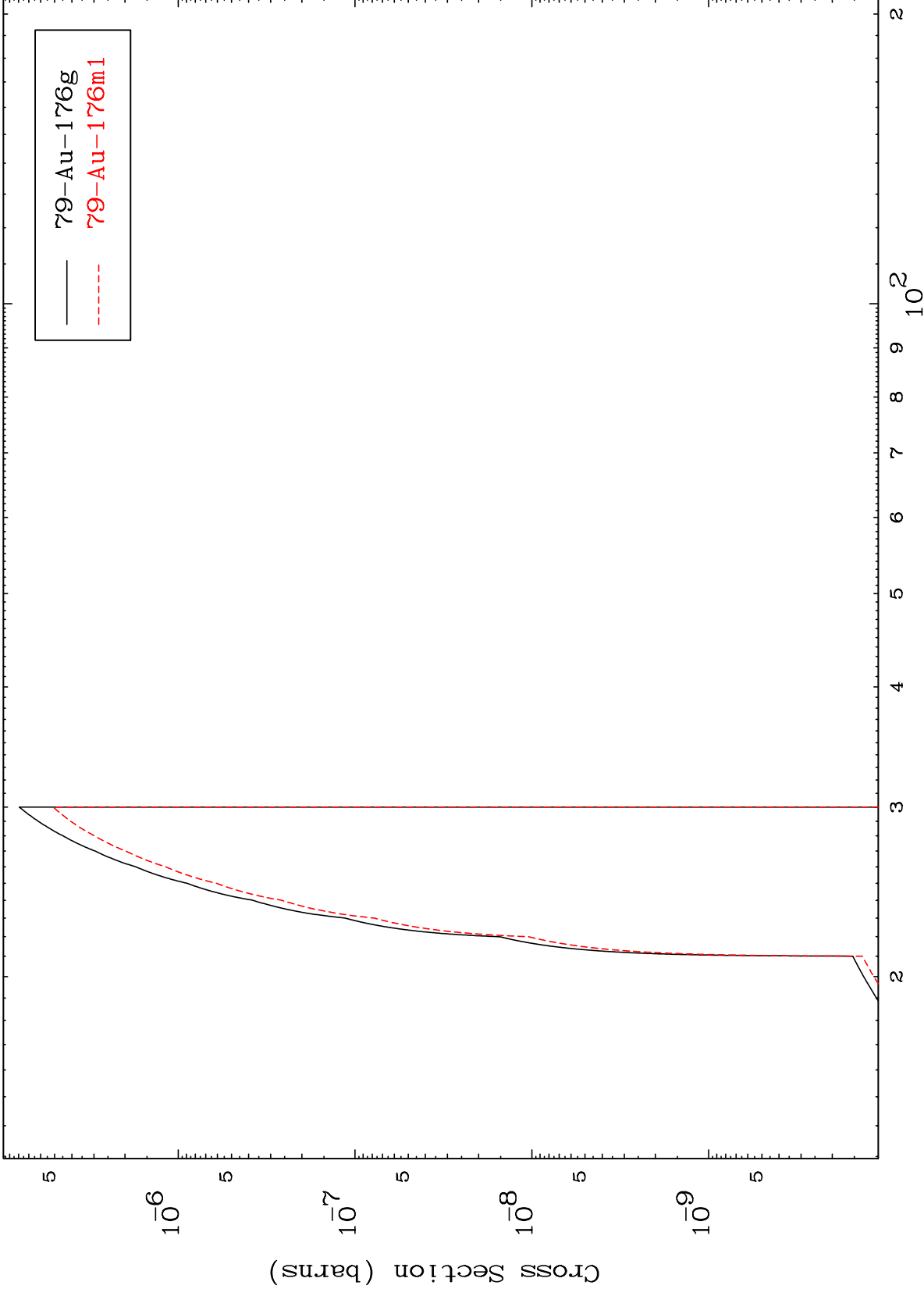
81-Tl-182

MAT 8062

(n,3n)  $\alpha$

81-Tl-182

Radionuclide Production Cross Section



99

Incident Energy (MeV)

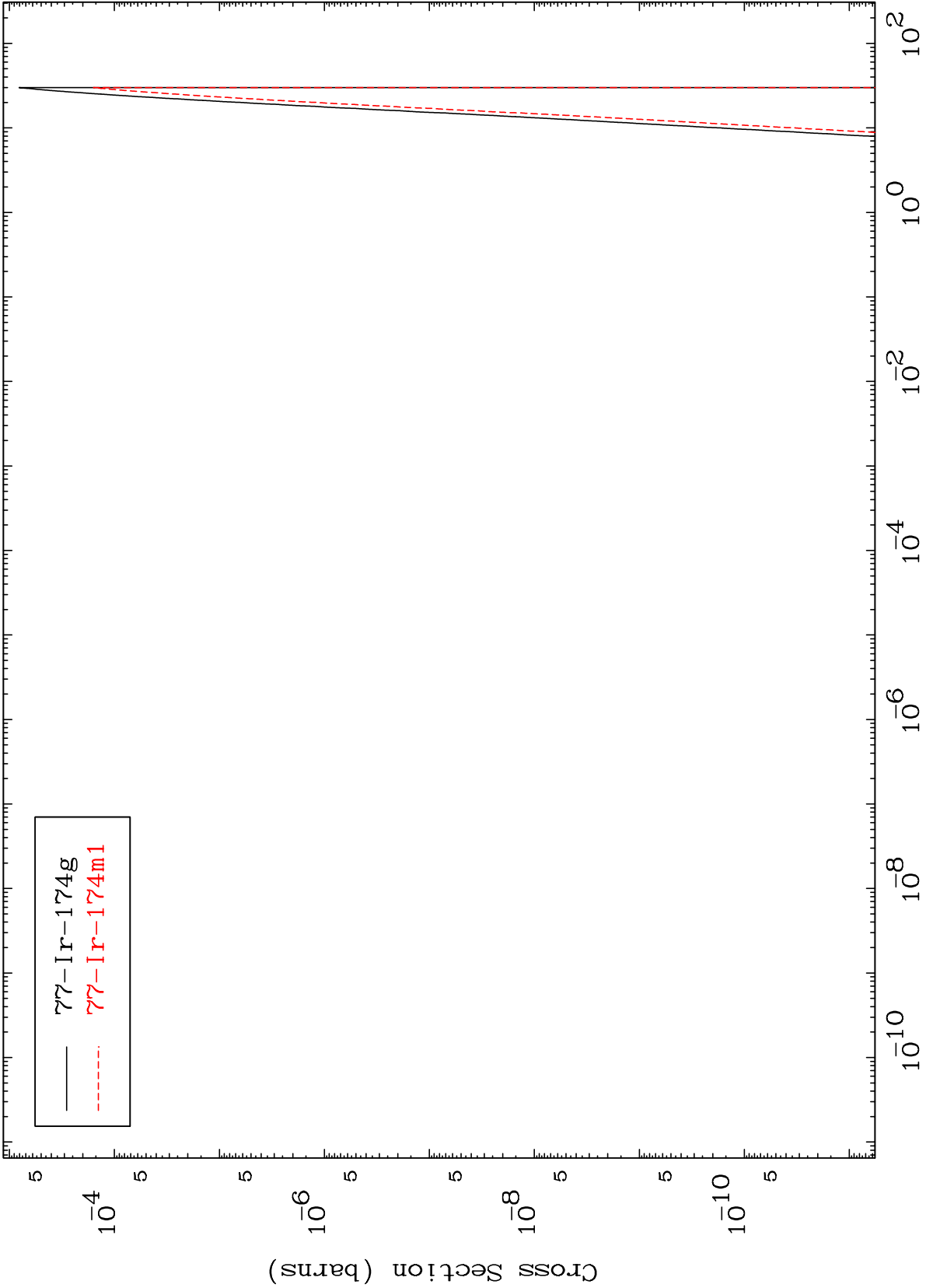
81-Tl-182

MAT 8062

(n,n') 2α

81-Tl-182

Radionuclide Production Cross Section



100

Incident Energy (MeV)

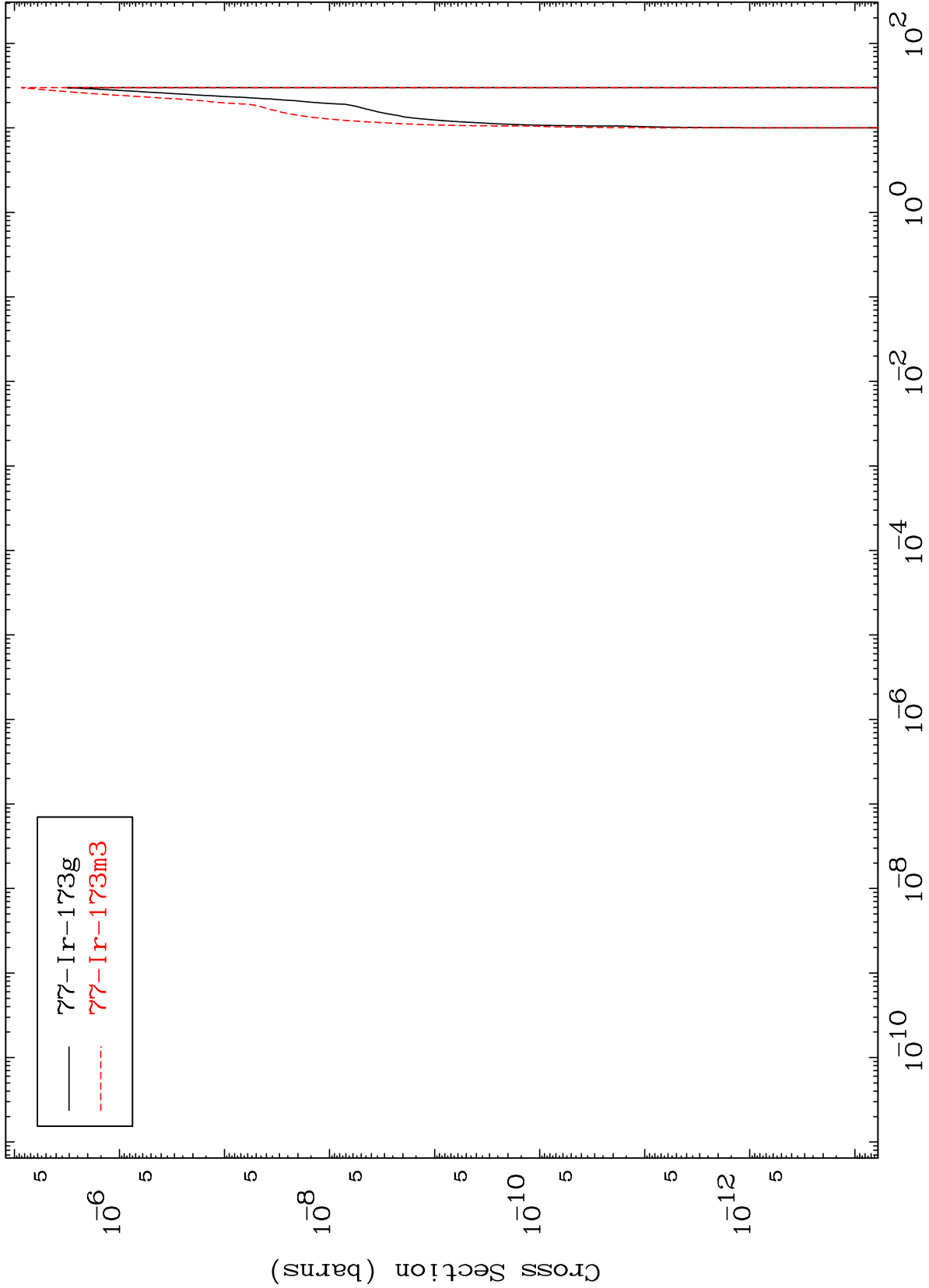
81-Tl-182

MAT 8062

(n,2n) 2α

81-Tl-182

Radionuclide Production Cross Section



— <sup>77</sup>Ir-173g  
- - - <sup>77</sup>Ir-173m3

101

Incident Energy (MeV)

81-Tl-182