

Program EVALPLOT  
(Version 2021-1)

by

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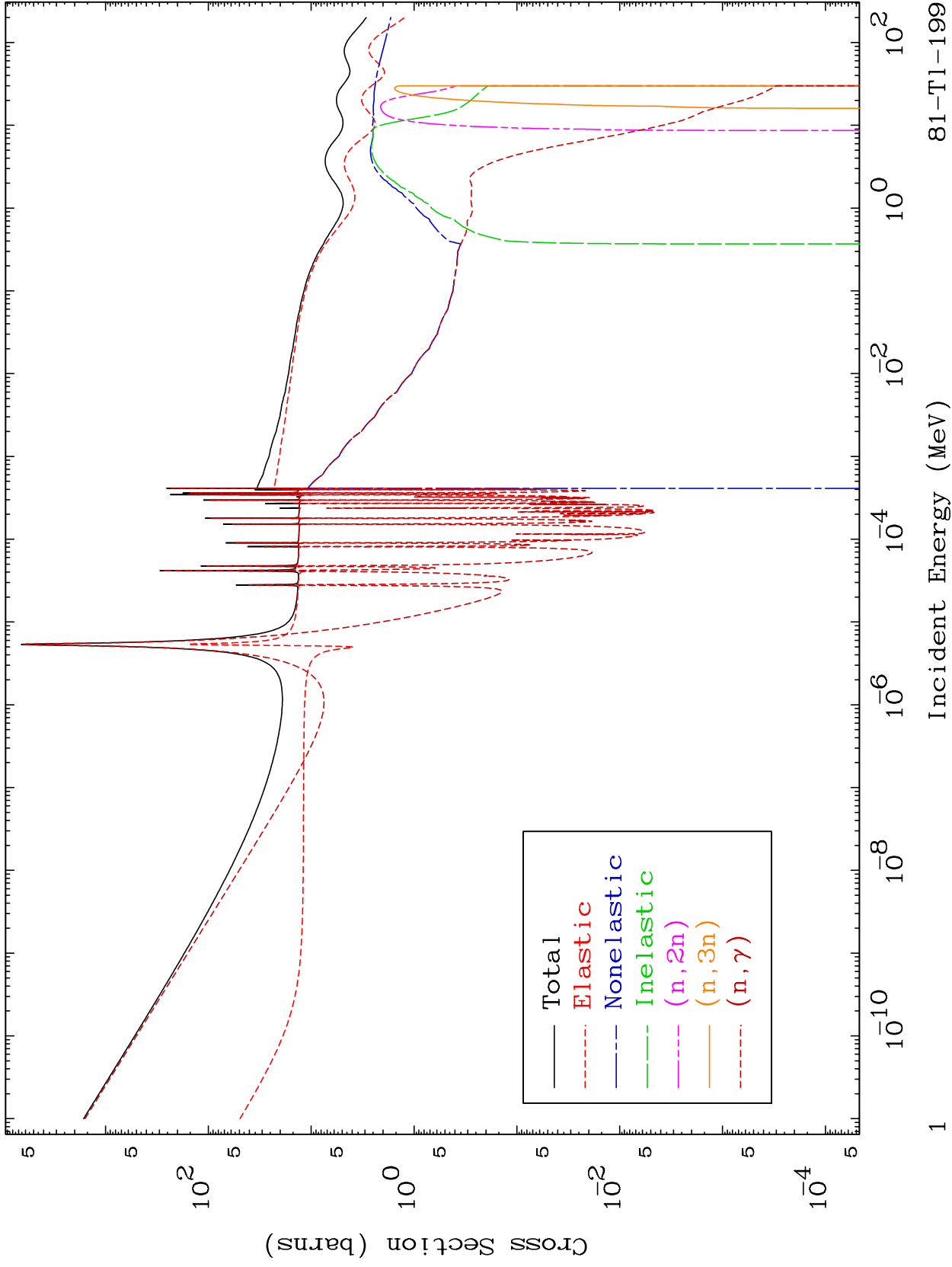
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Press Mouse Button to Start

MAT 81113

Neutron Major  
293 Kelvin Cross Sections

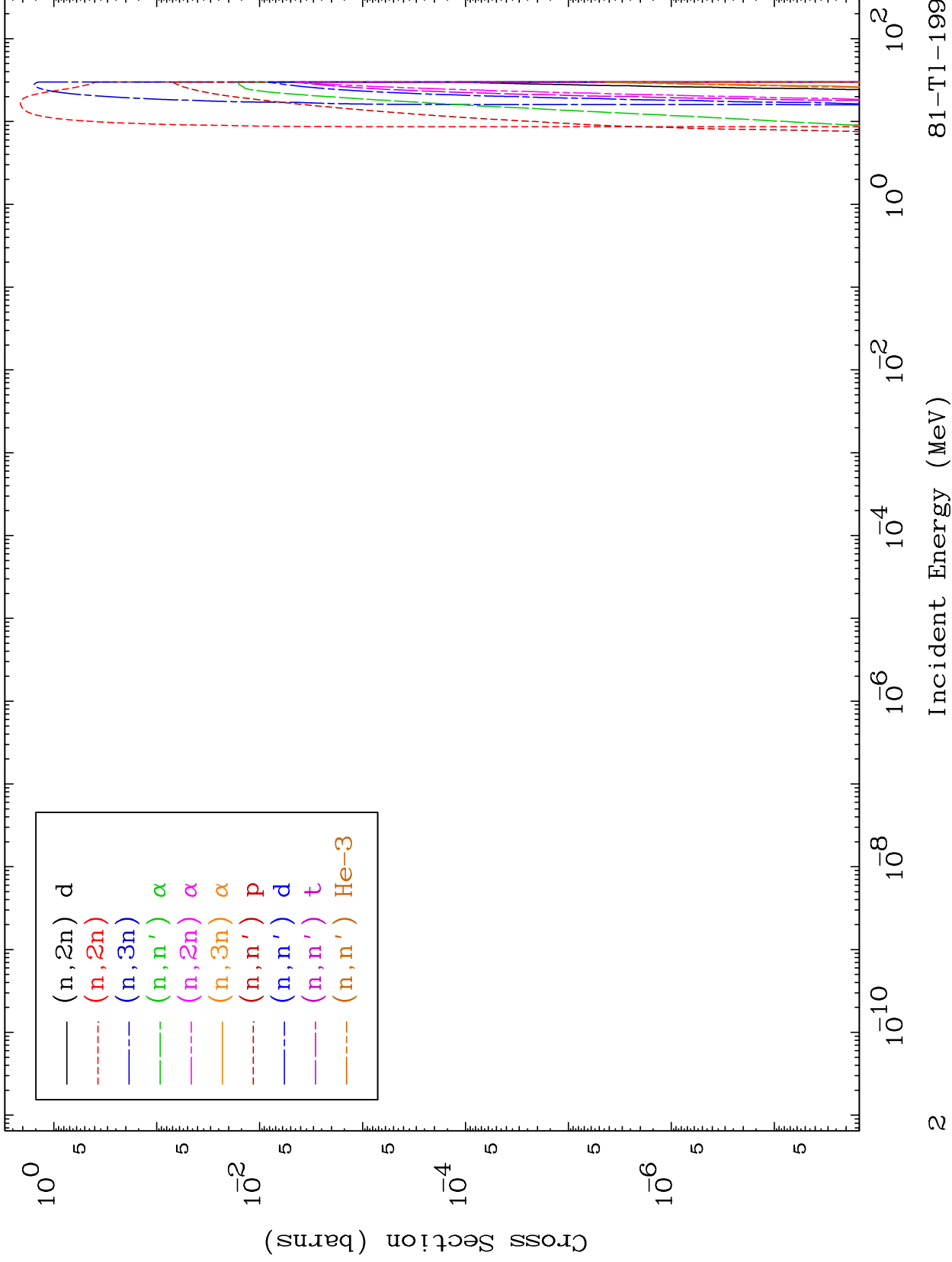
81-Tl-199

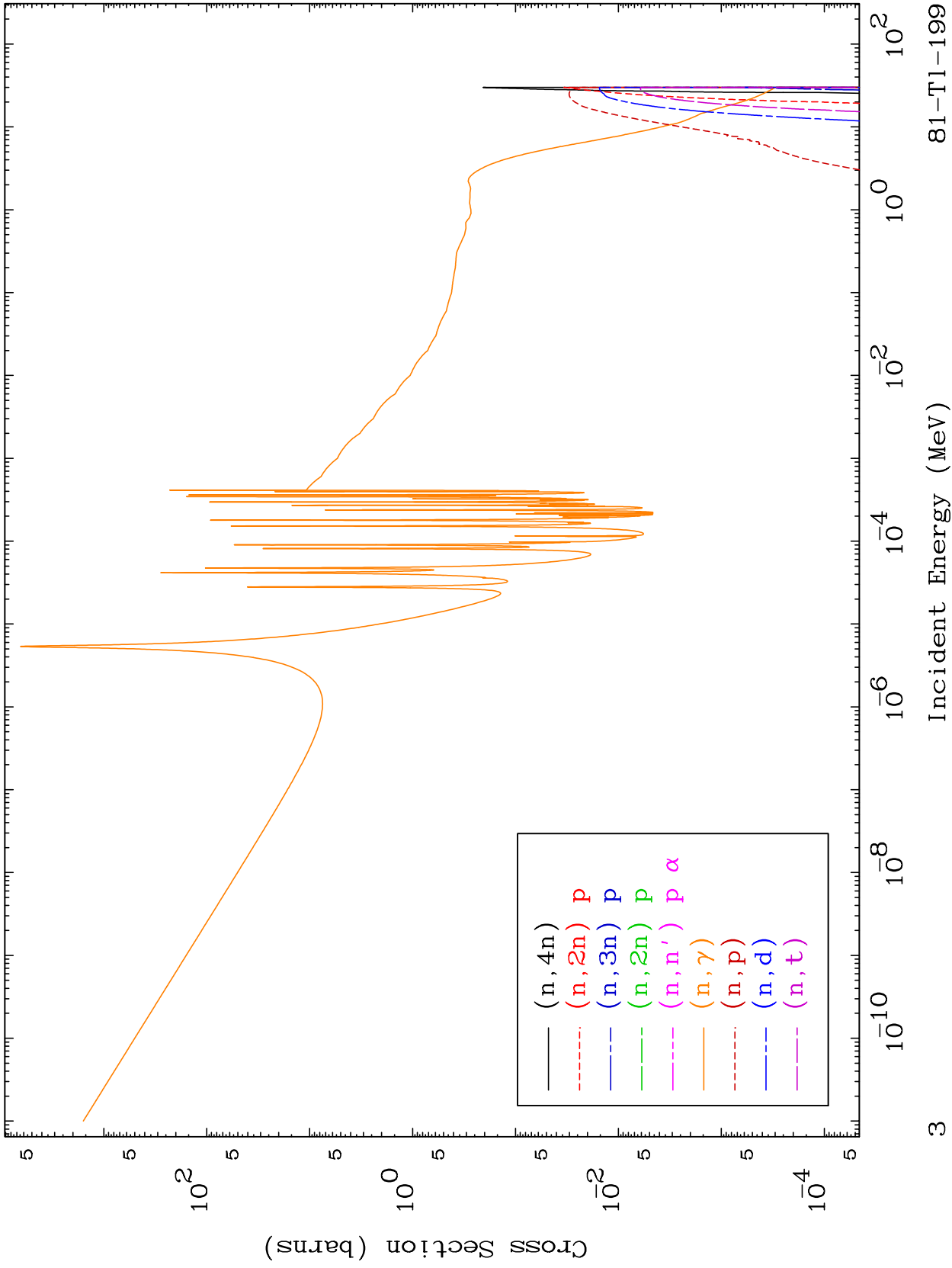


MAT 81113

Neutron Absorption  
293 Kelvin Cross Sections

81-Tl-199

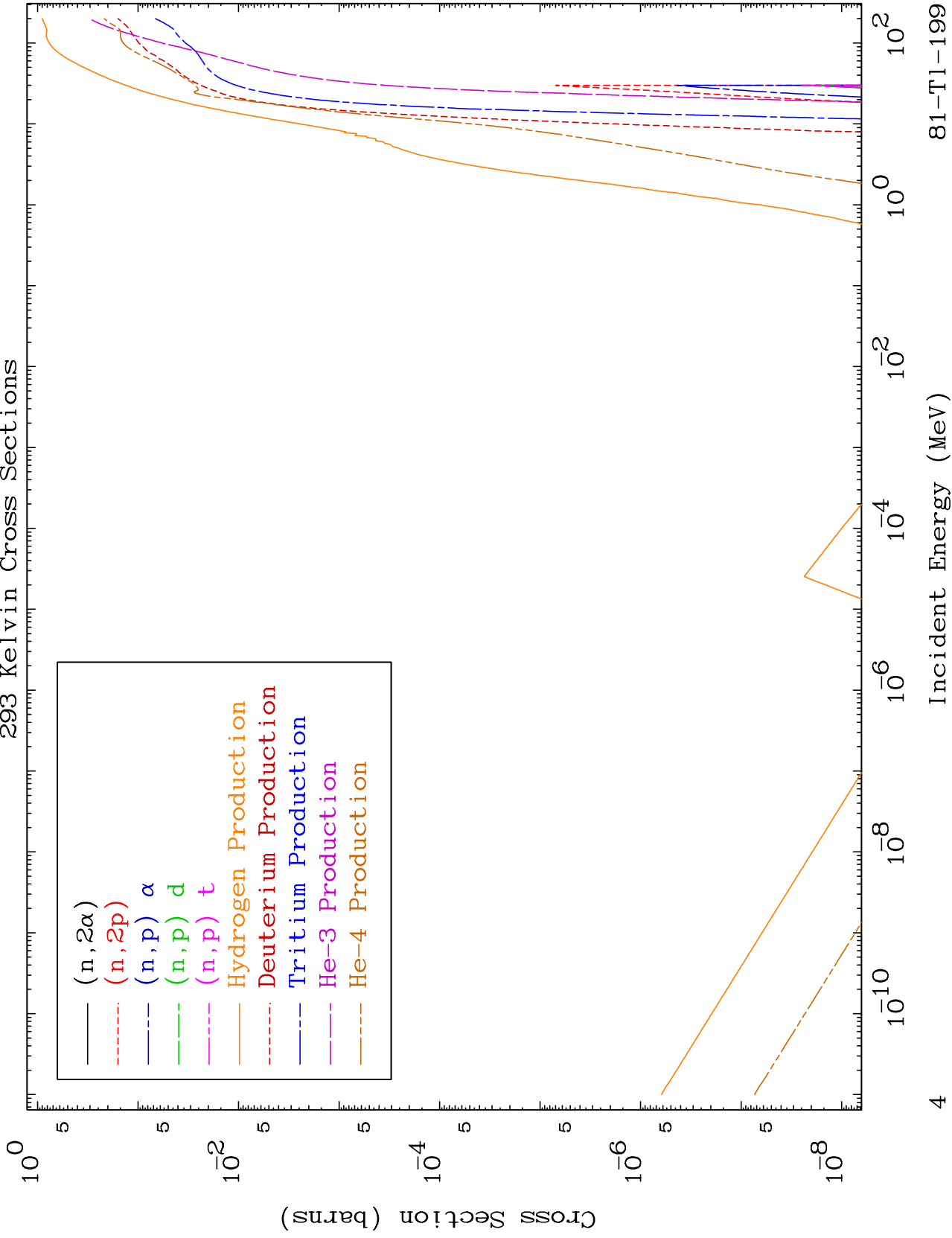




MAT 8113

Neutron Absorption  
293 Kelvin Cross Sections

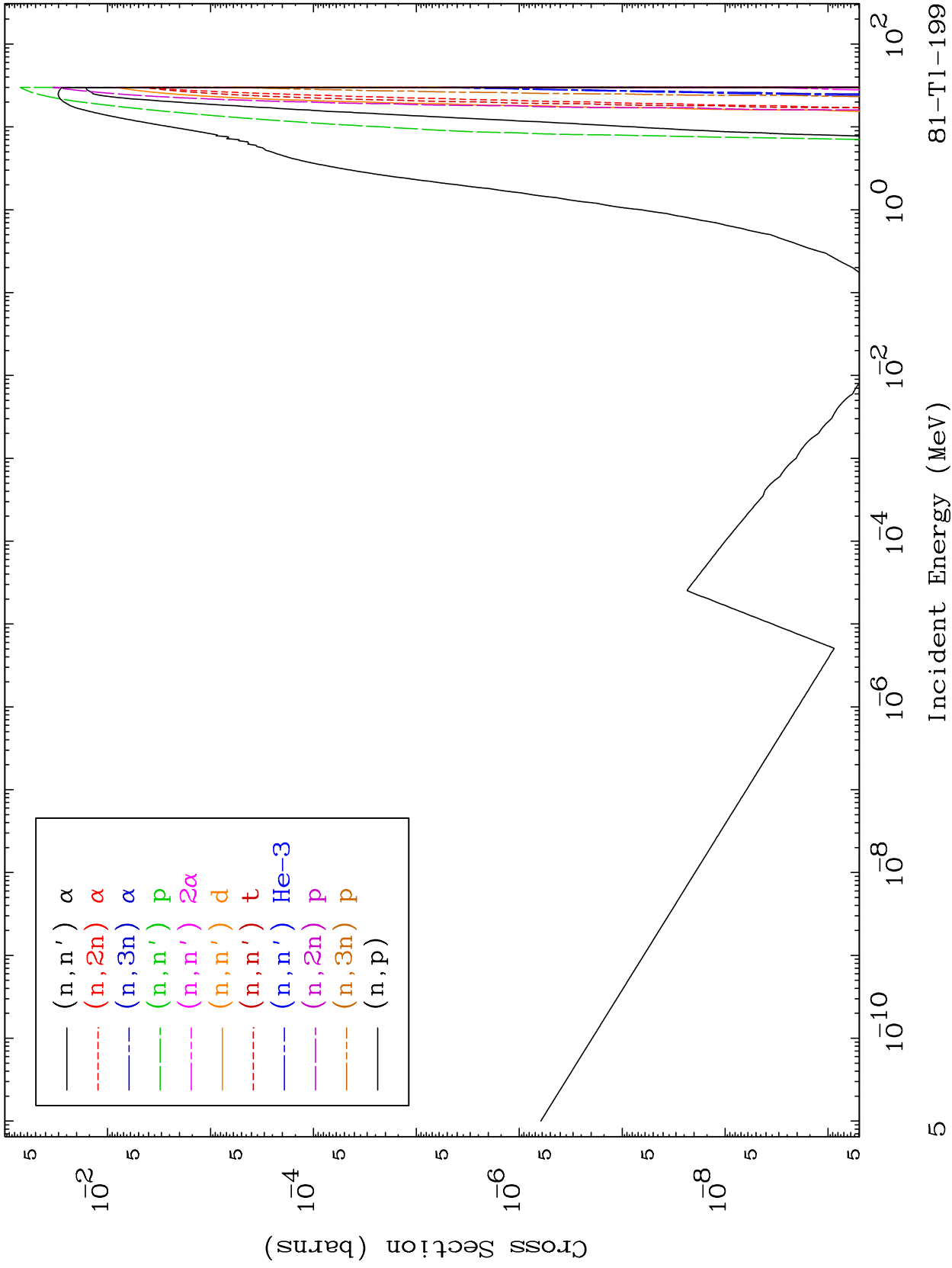
81-Tl-199



MAT 8113

Charged Particle  
293 Kelvin Cross Sections

81-Tl-199



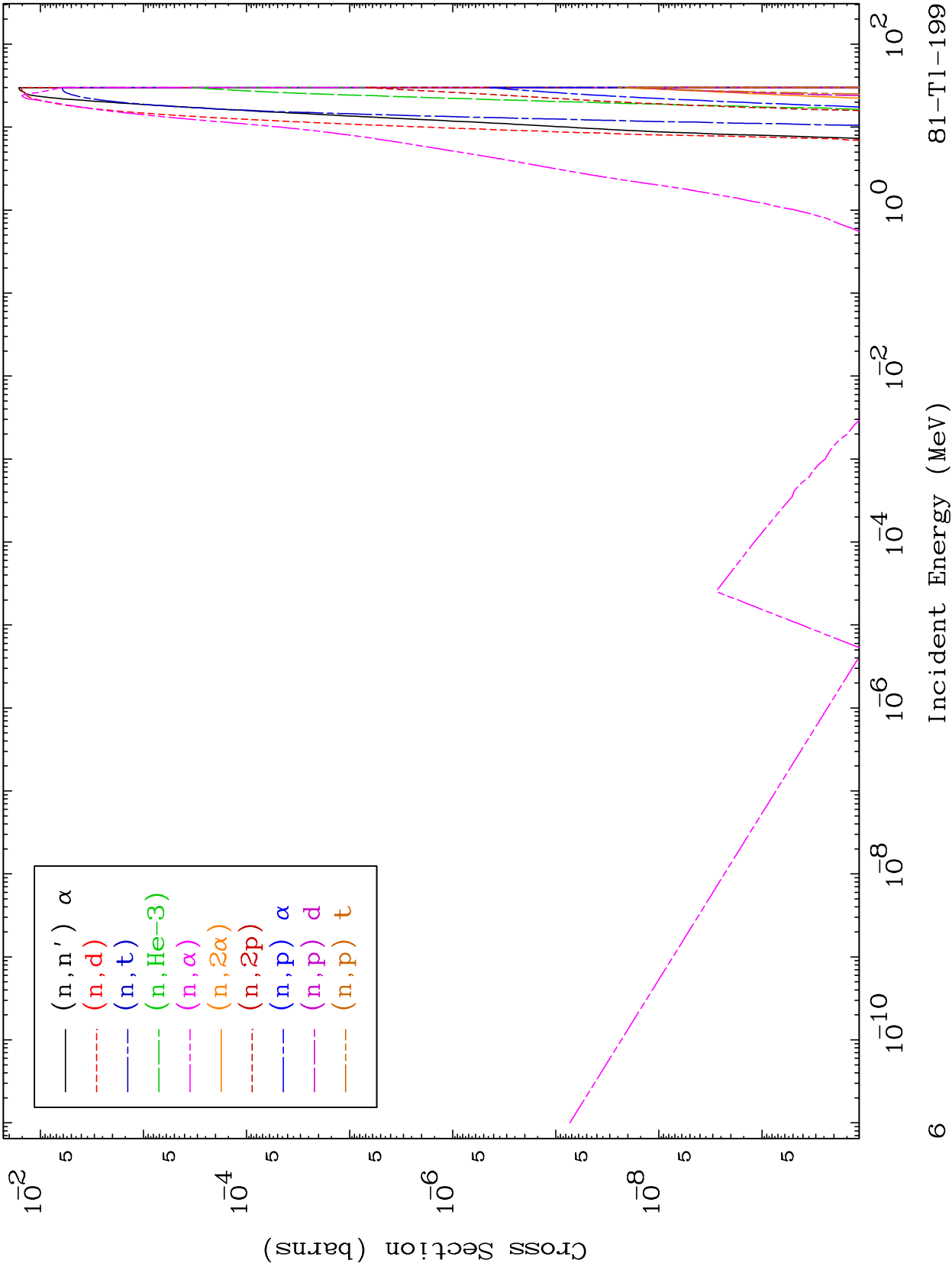
5

81-Tl-199

MAT 8113

Charged Particle  
293 Kelvin Cross Sections

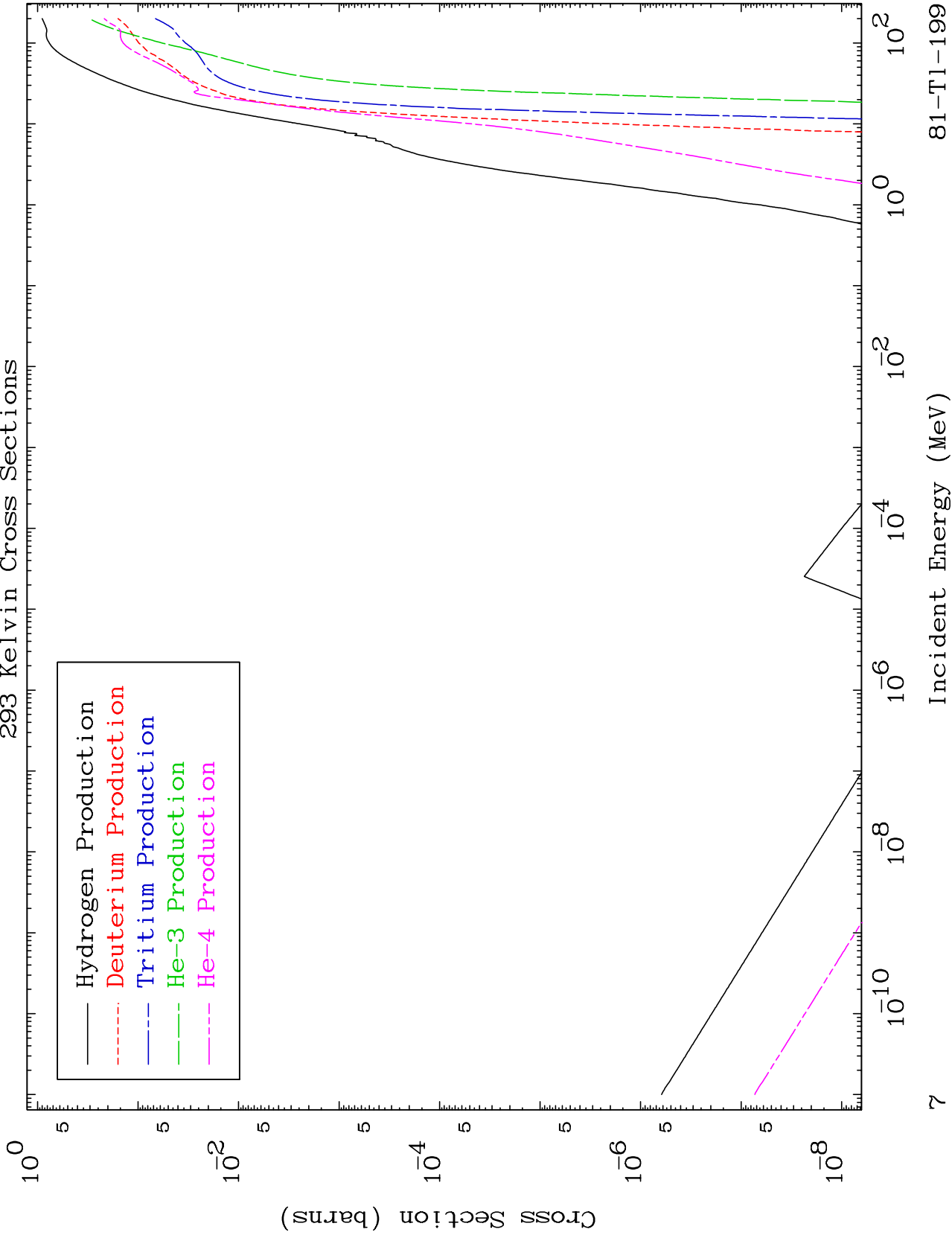
81-Tl-199



MAT 81113

Particle Production  
293 Kelvin Cross Sections

81-Tl-199



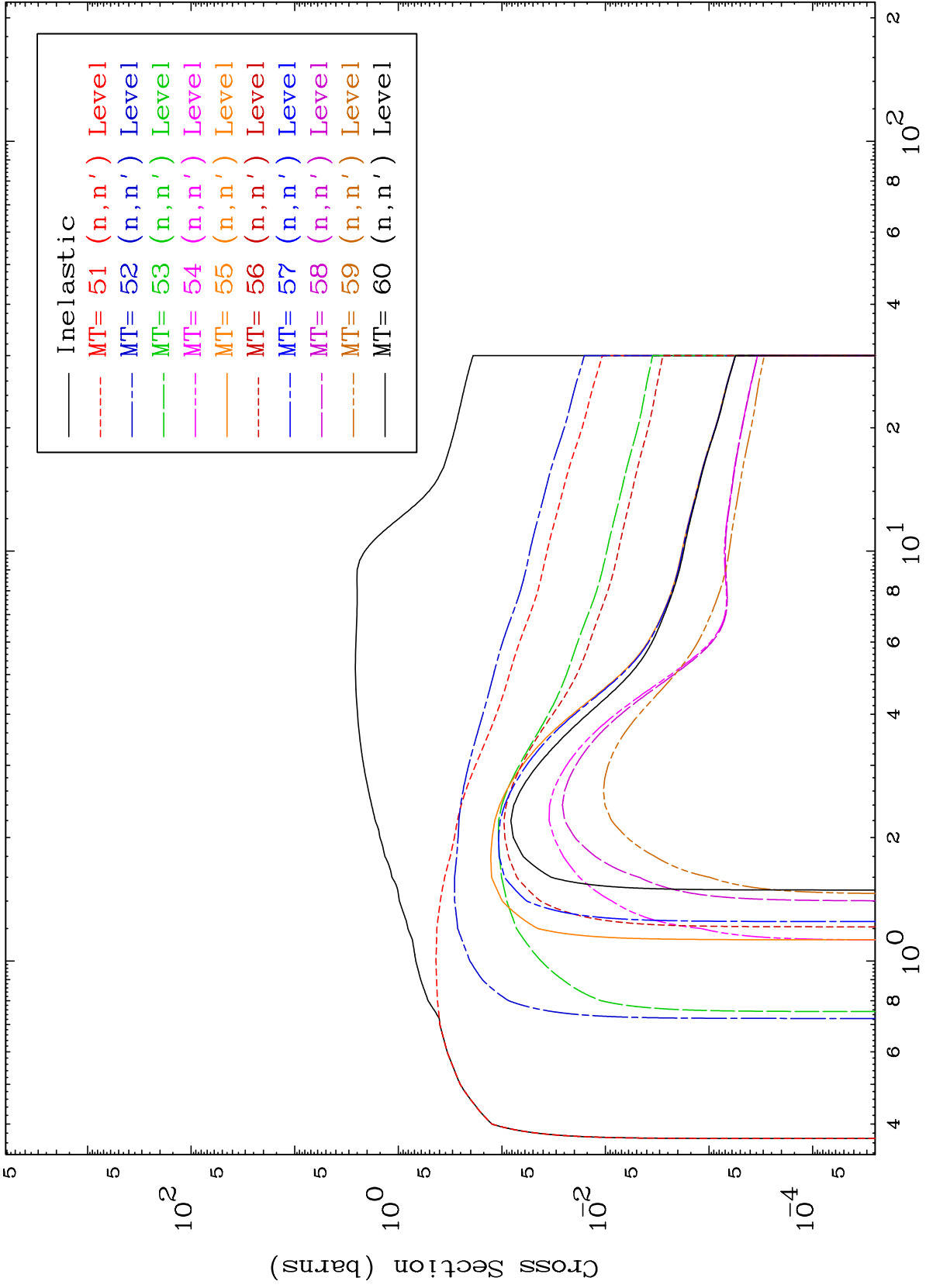


MAT 81113

(n,n') Levels

81-Tl-199

293 Kelvin Cross Sections

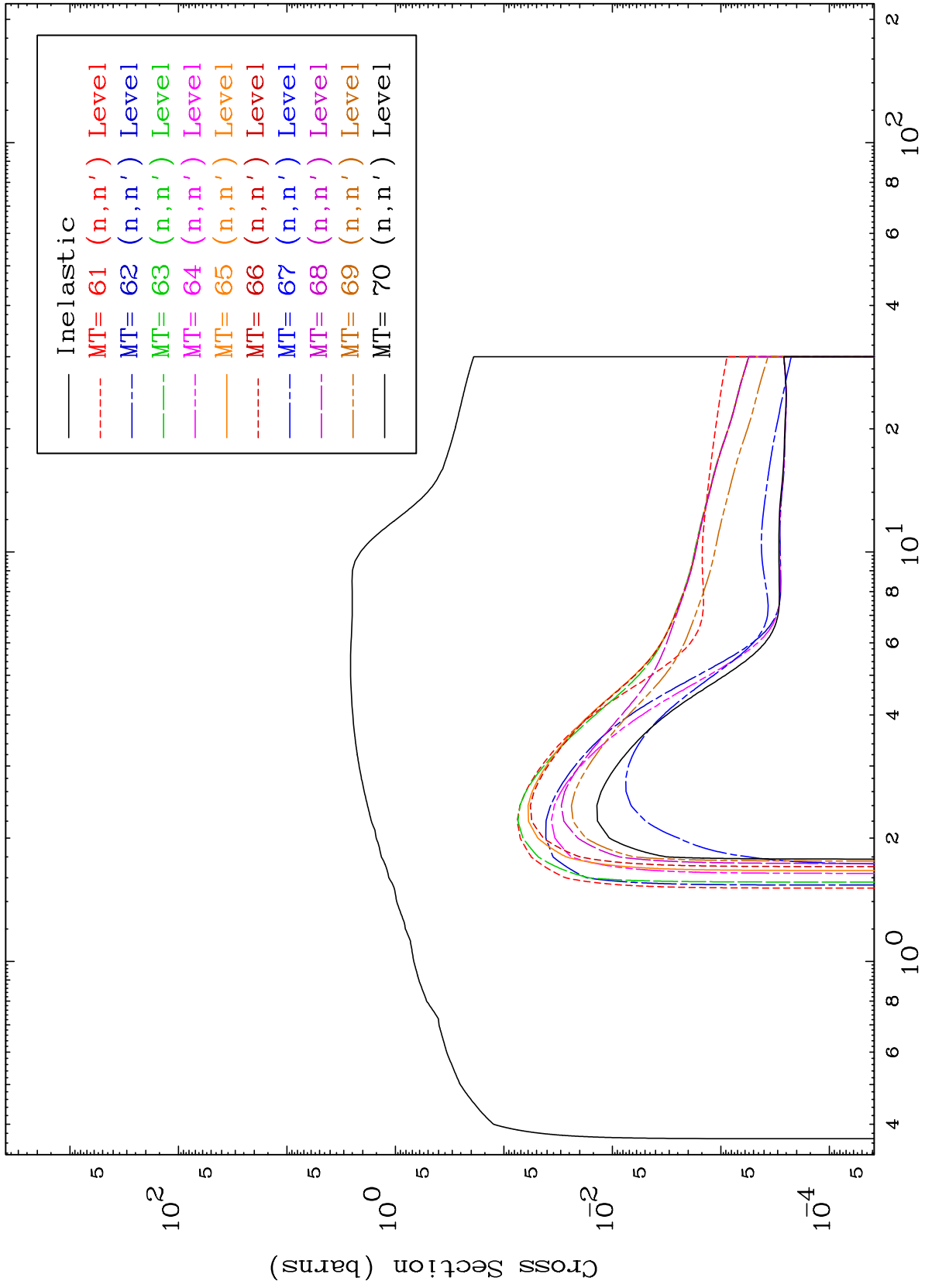


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Incident Energy (MeV)

81-Tl-199

293 Kelvin Cross Sections

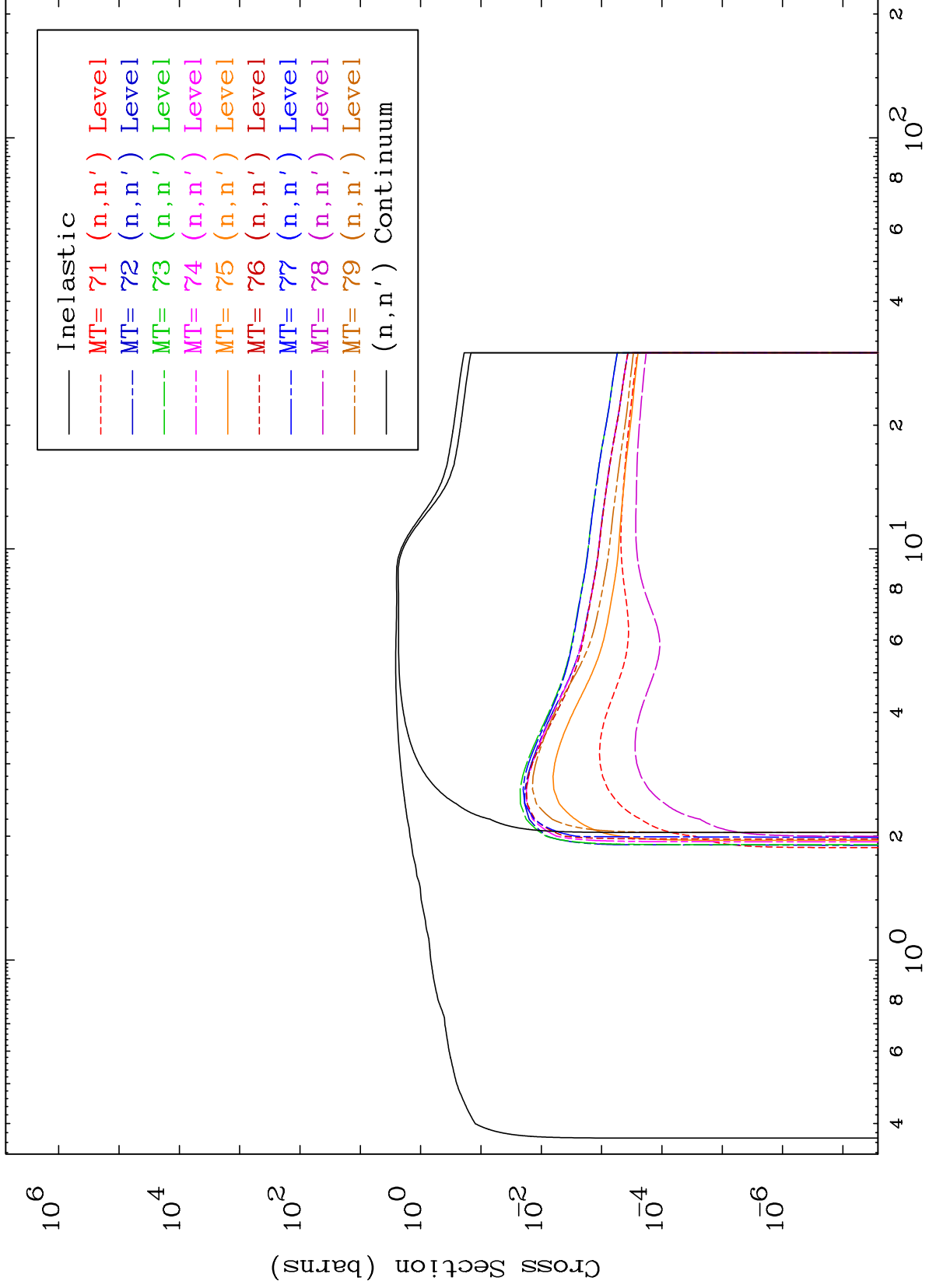


MAT 81113

(n,n') Levels

81-Tl-199

293 Kelvin Cross Sections



10

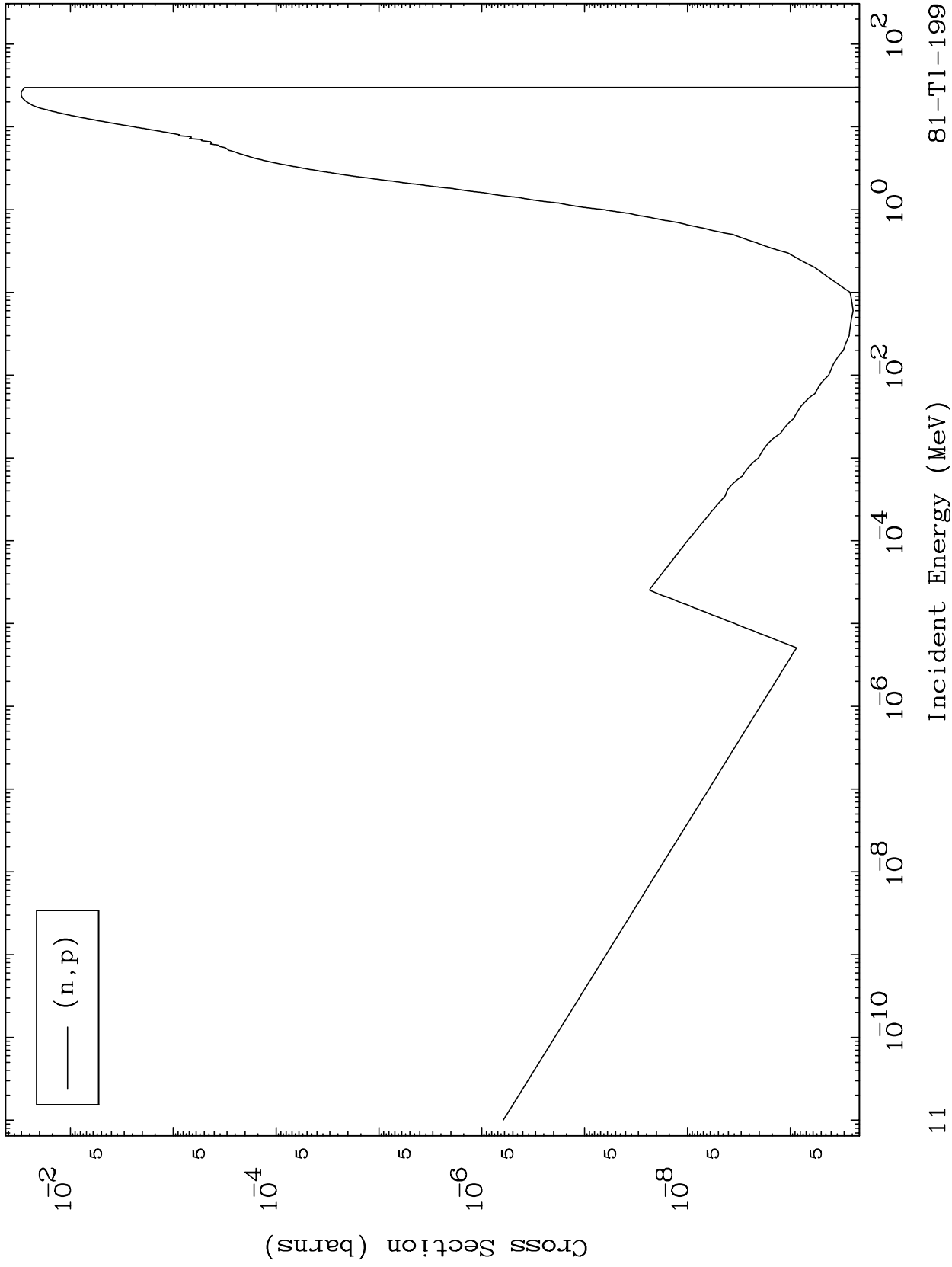
Incident Energy (MeV)

81-Tl-199

MAT 8113

(n,p) Levels  
293 Kelvin Cross Sections

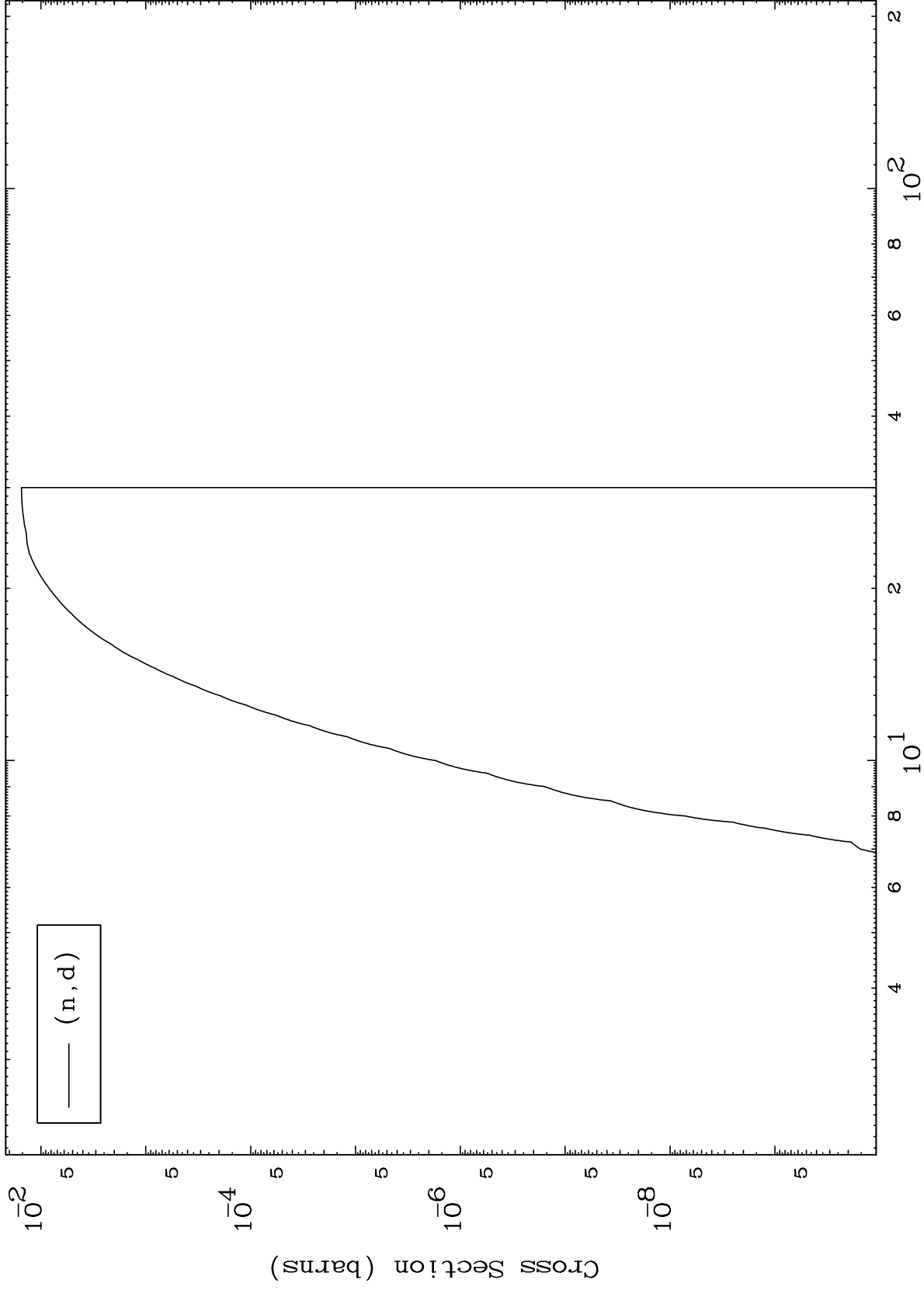
81-Tl-199



MAT 81113

(n,d) Levels  
293 Kelvin Cross Sections

81-Tl-199



12

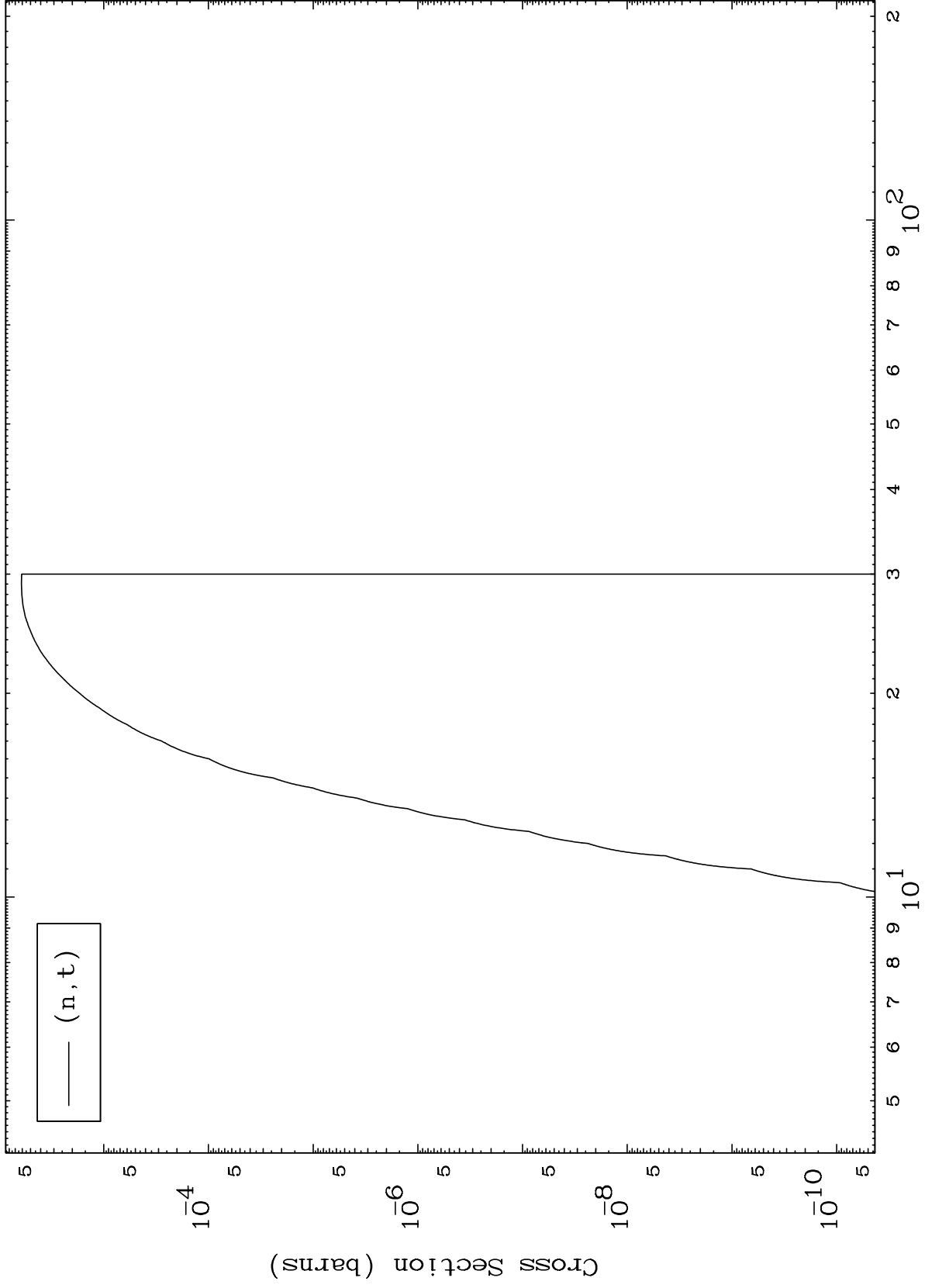
Incident Energy (MeV)

81-Tl-199

MAT 81113

(n,t) Levels  
293 Kelvin Cross Sections

81-T1-199



13

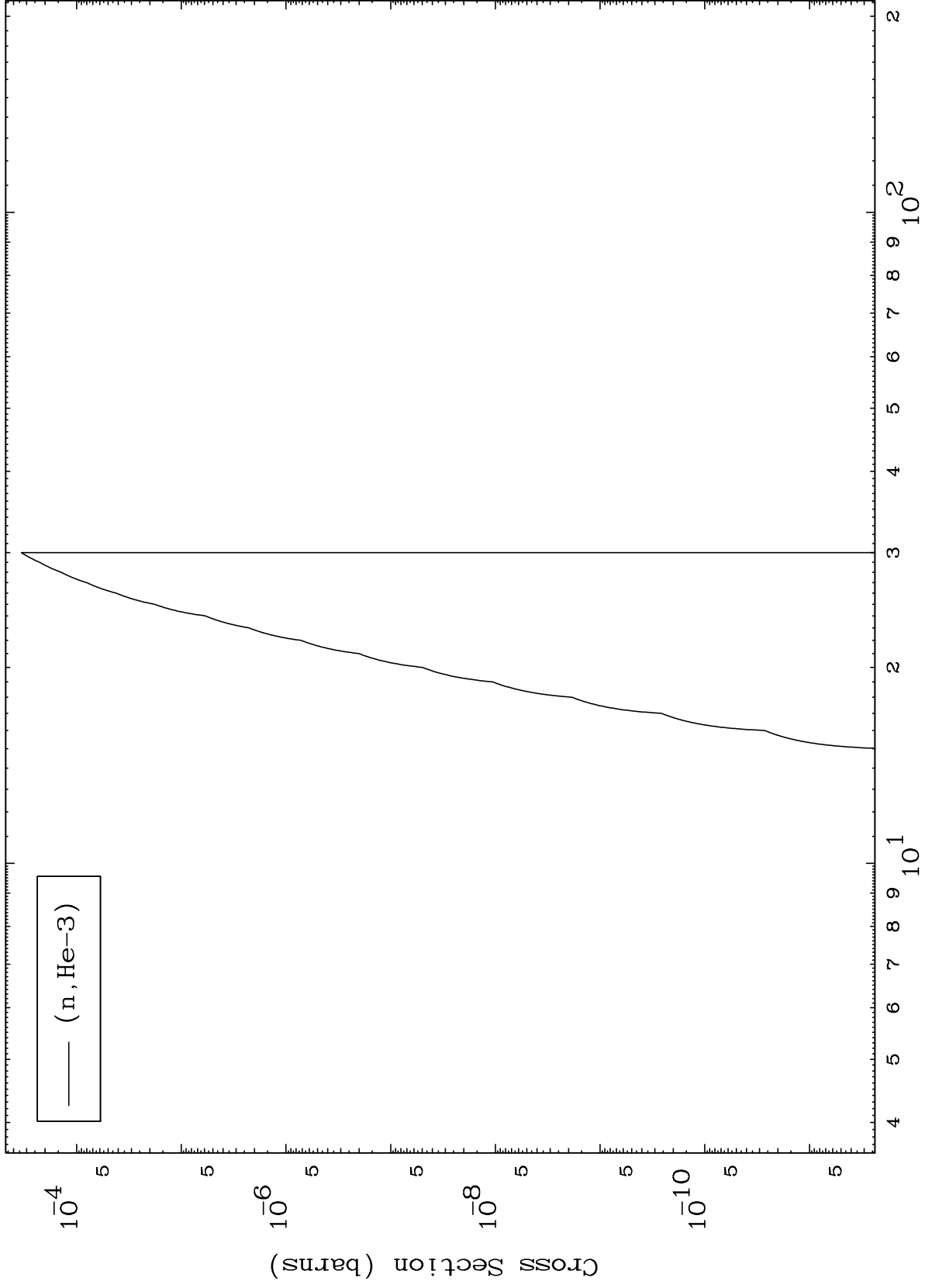
Incident Energy (MeV)

81-T1-199

MAT 81113

(n,He3) Levels  
293 Kelvin Cross Sections

81-T1-199



14

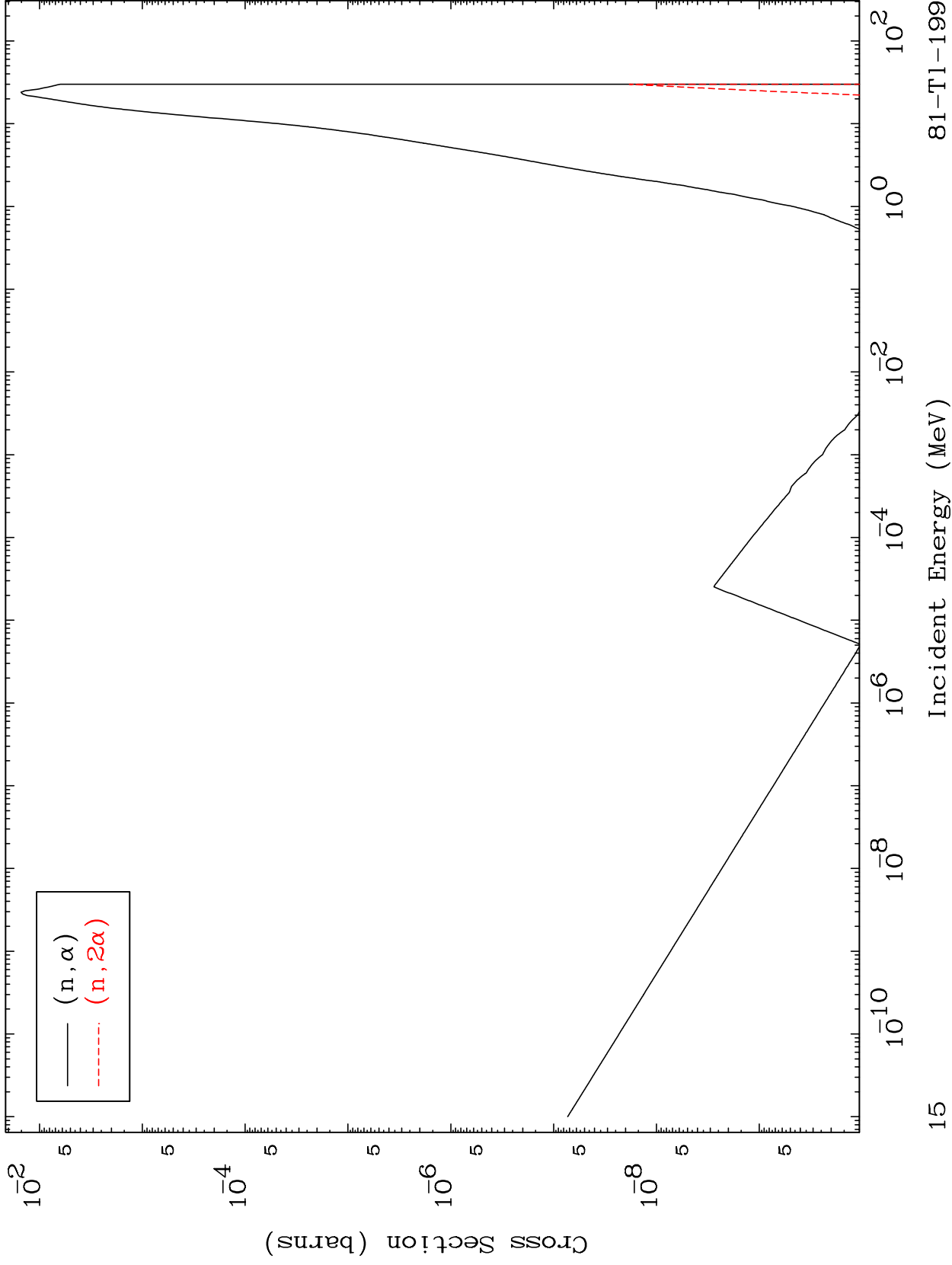
Incident Energy (MeV)

81-T1-199

MAT 81113

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

81-Tl-199

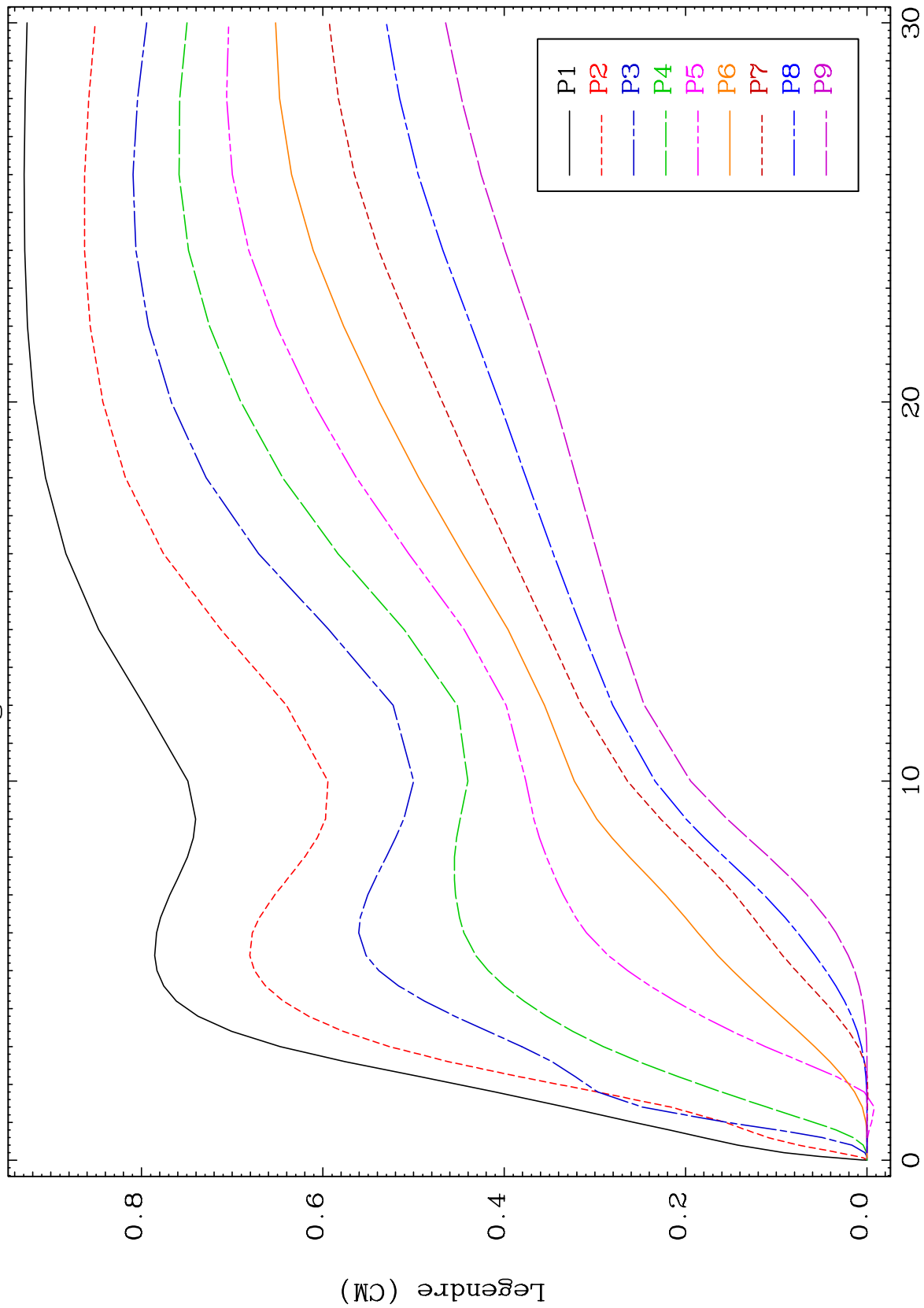




MAT 81113

Elastic Legendre Coefficients

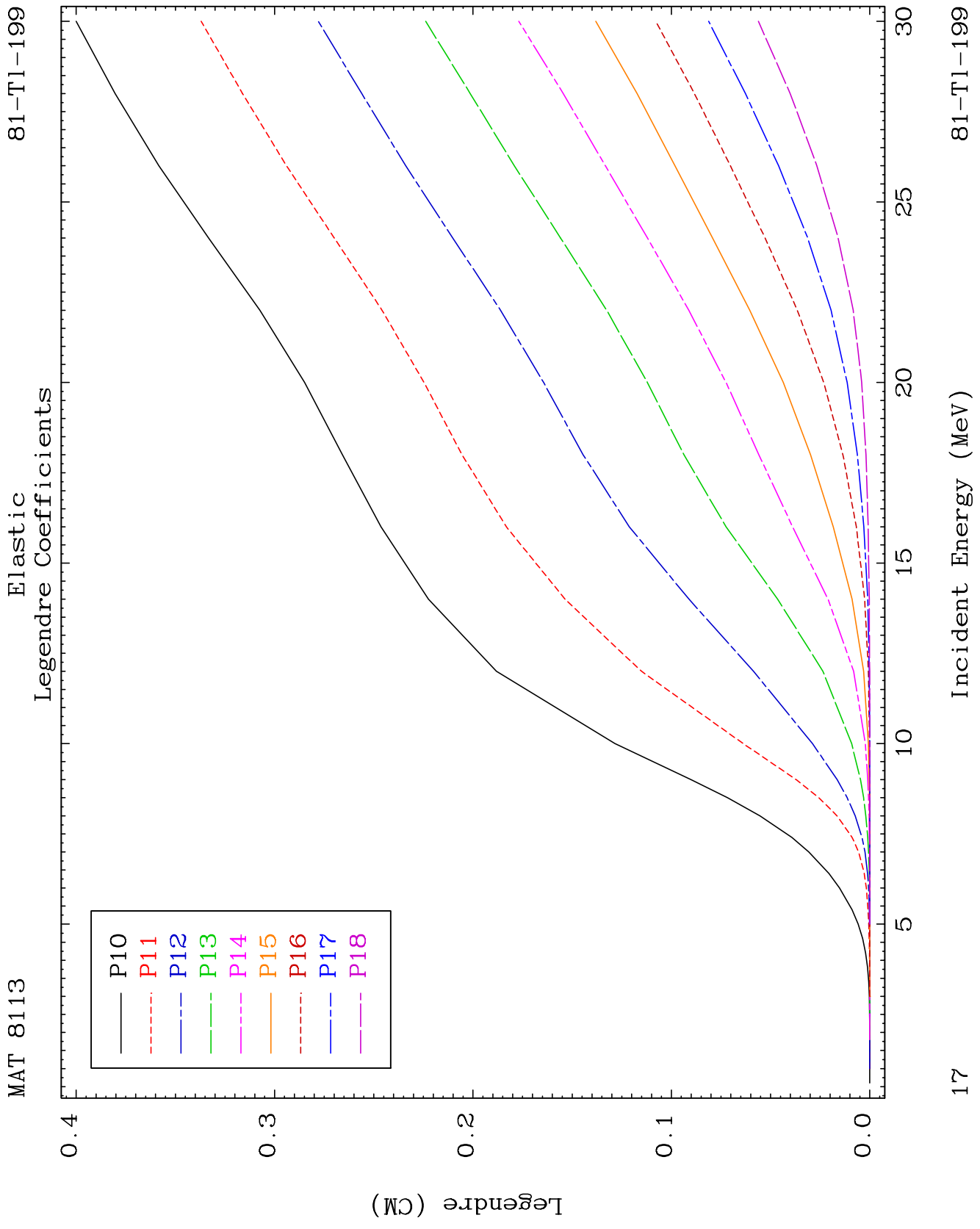
81-T1-199



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Incident Energy (MeV)

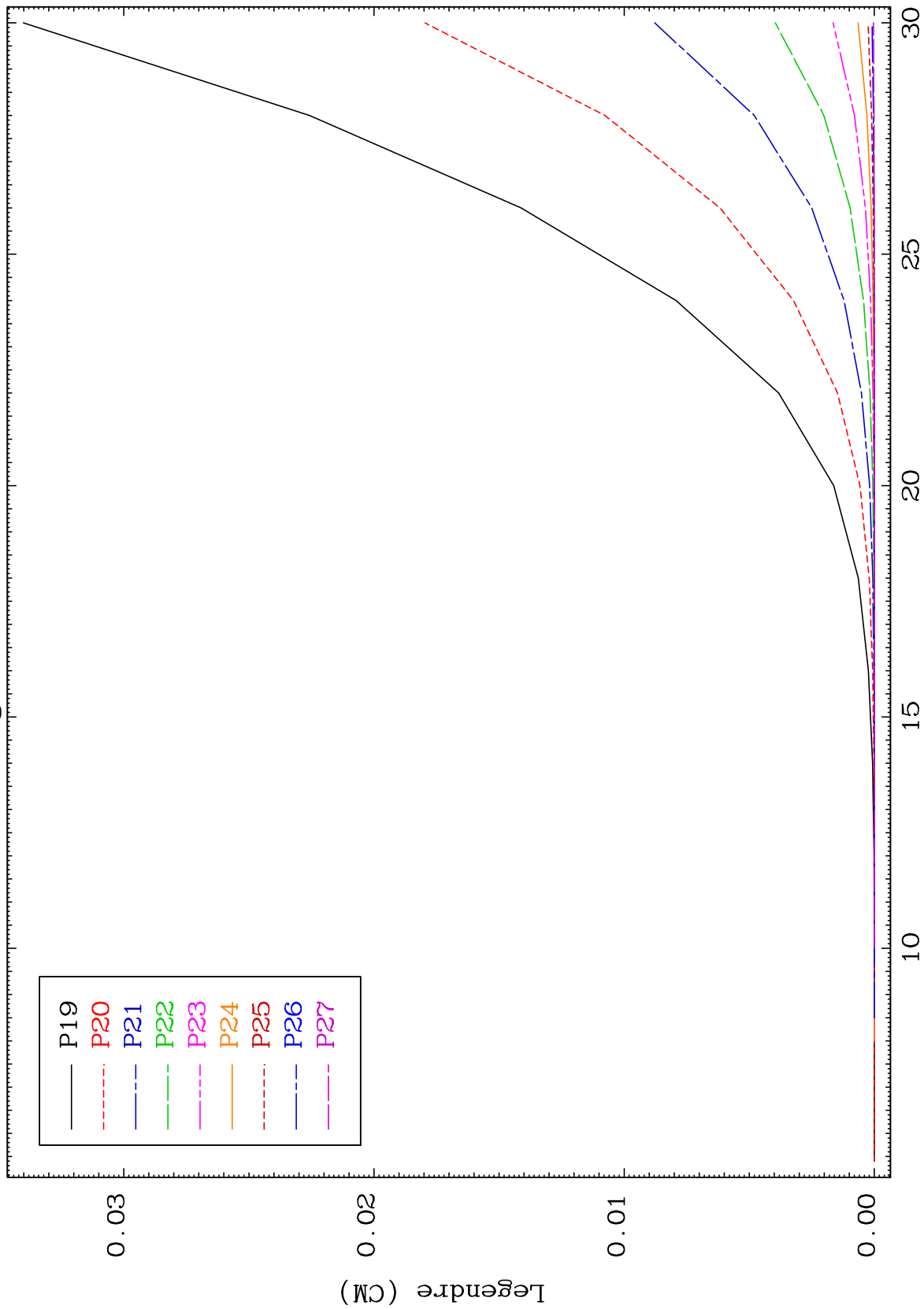
81-T1-199



MAT 8113

Elastic Legendre Coefficients

81-T1-199



18

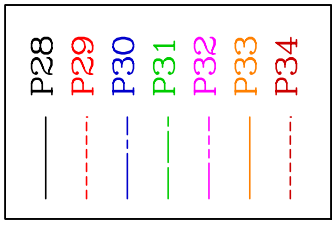
Incident Energy (MeV)

81-T1-199

MAT 8113

Elastic Legendre Coefficients

81-T1-199



$\times 10^{-5}$

Legendre (CM)

1.0  
0.8

0.6  
0.4

0.2  
0.0

10

15

20

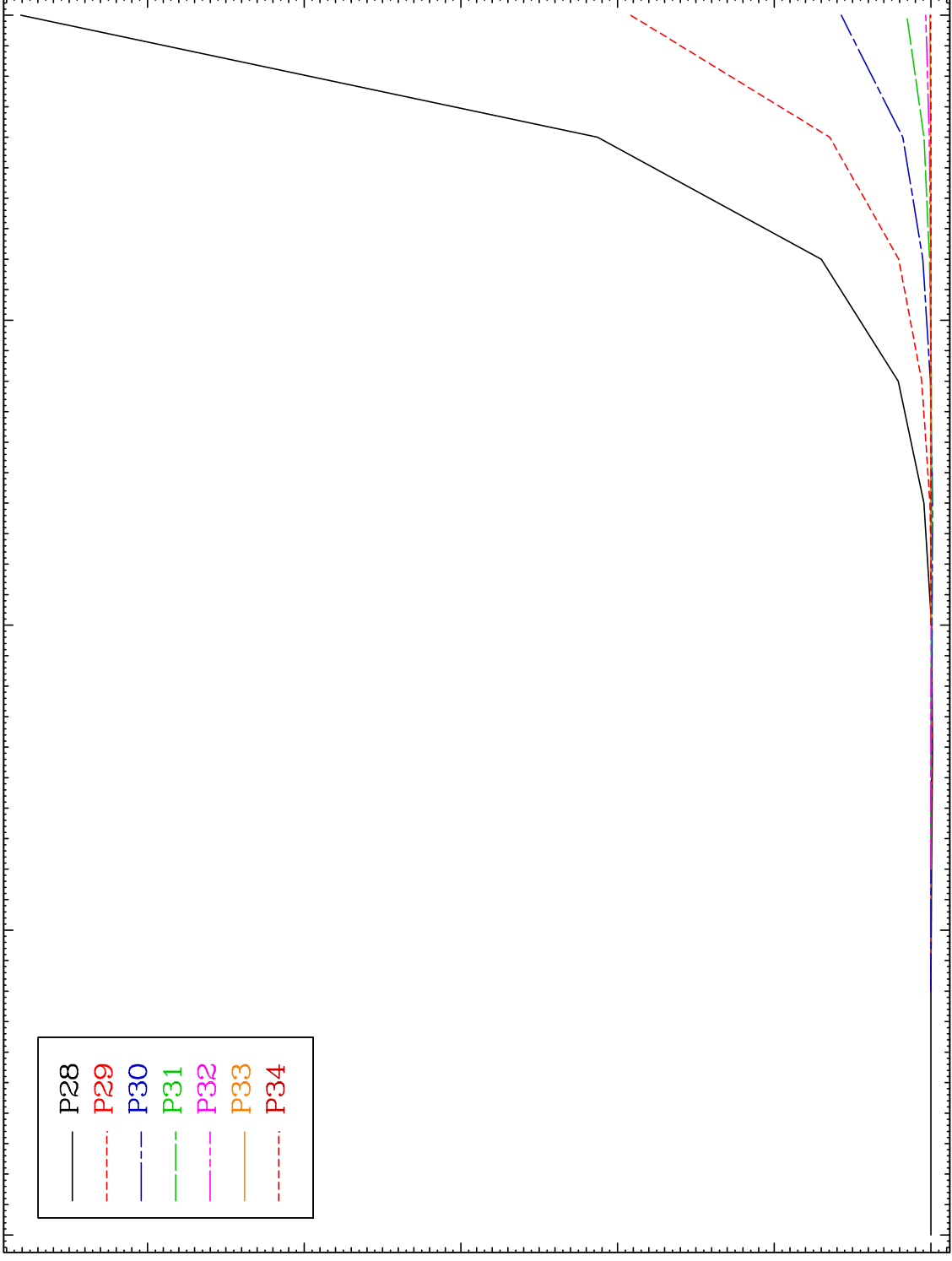
25

30

19

Incident Energy (MeV)

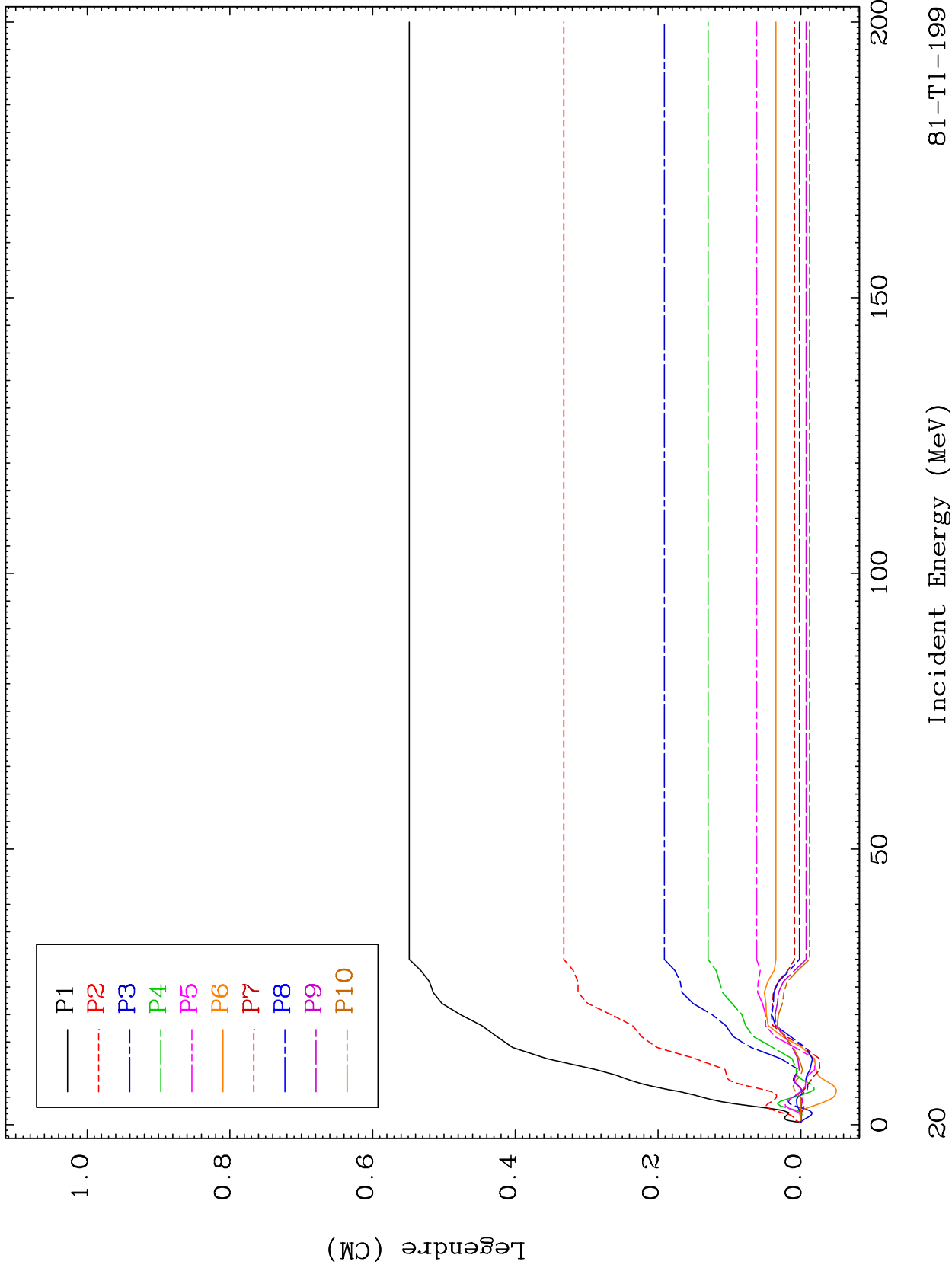
81-T1-199



MAT 8113

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

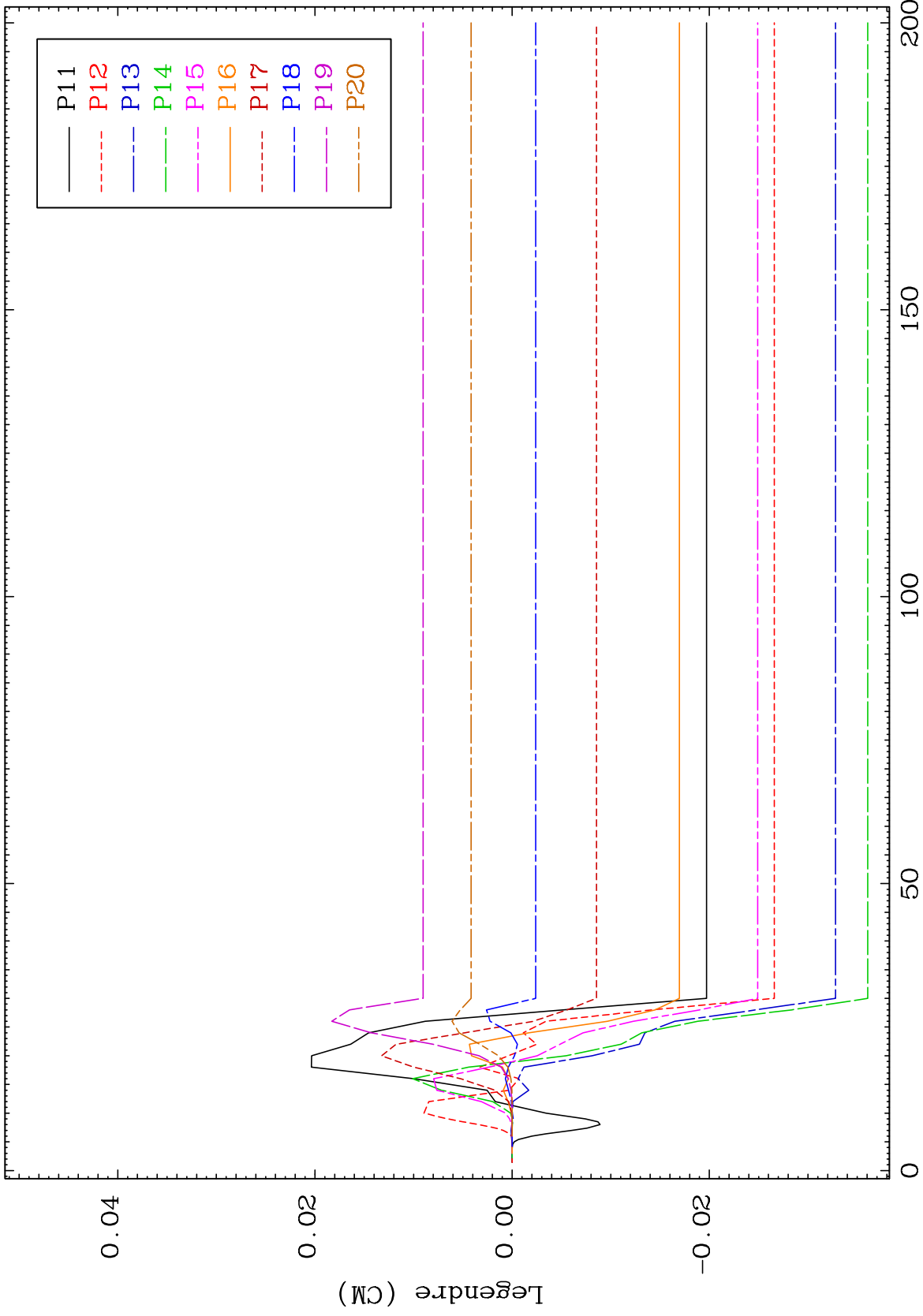
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MAT 81113

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

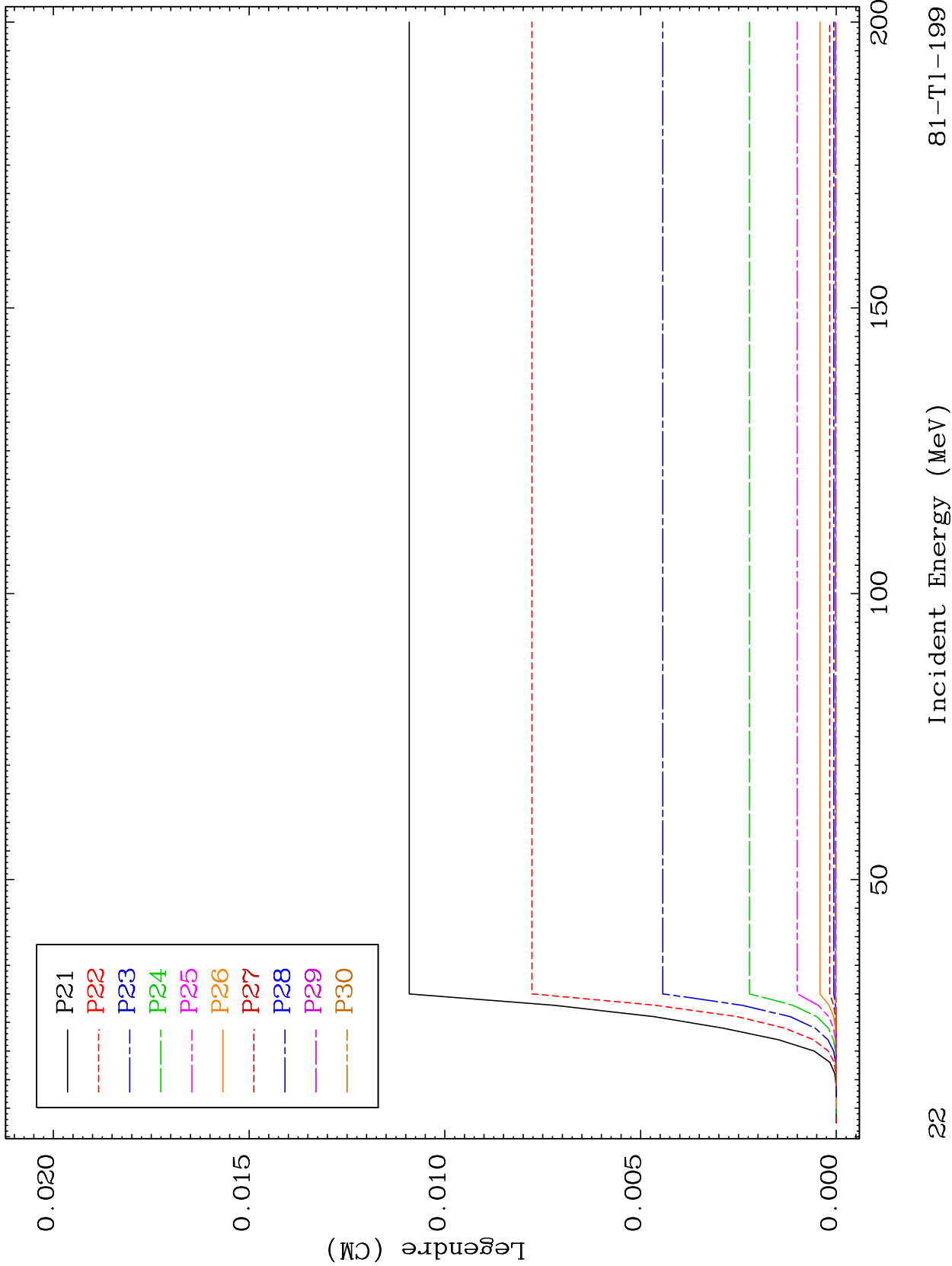
81-T1-199

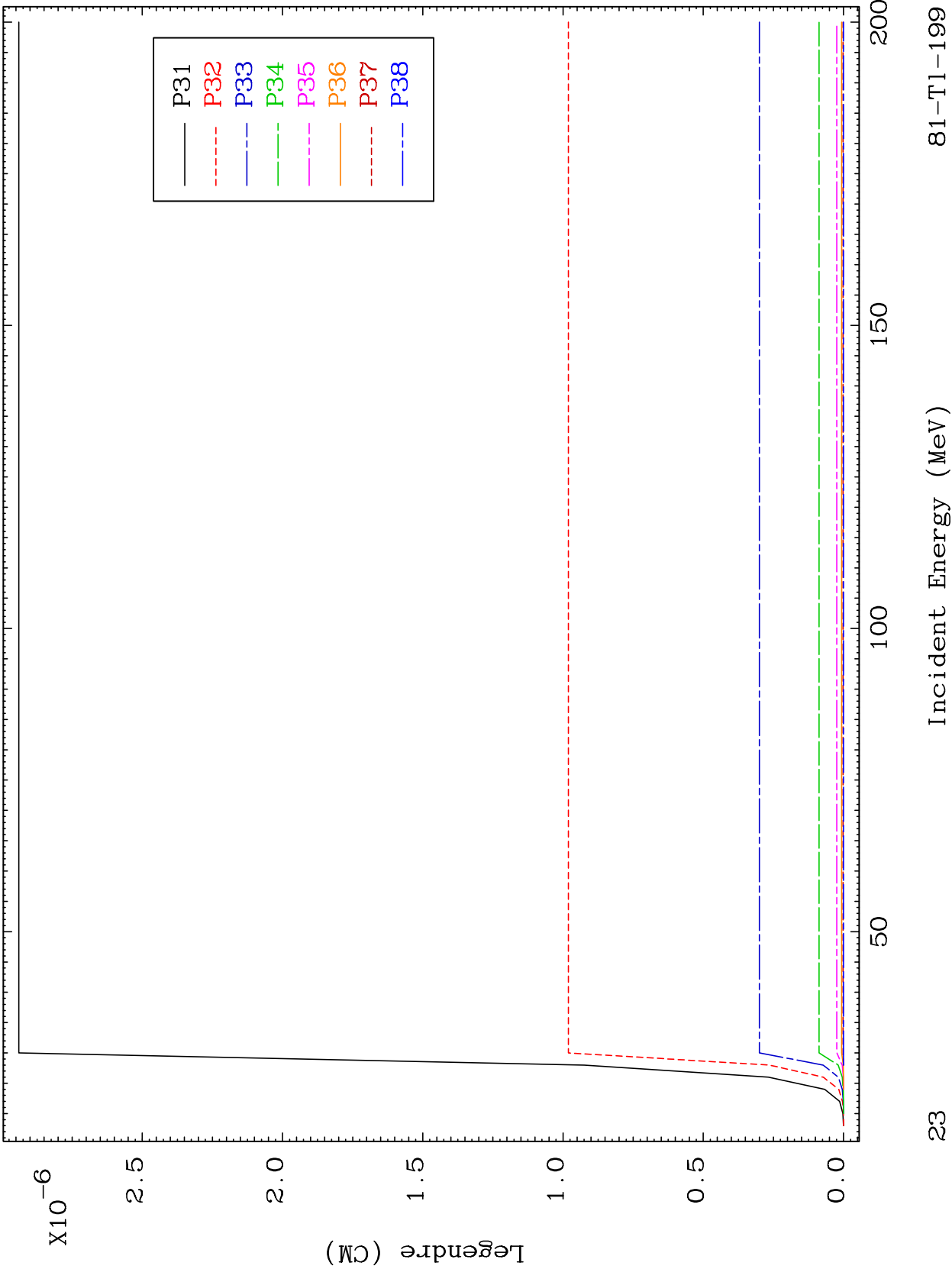


21

Incident Energy (MeV)

81-T1-199



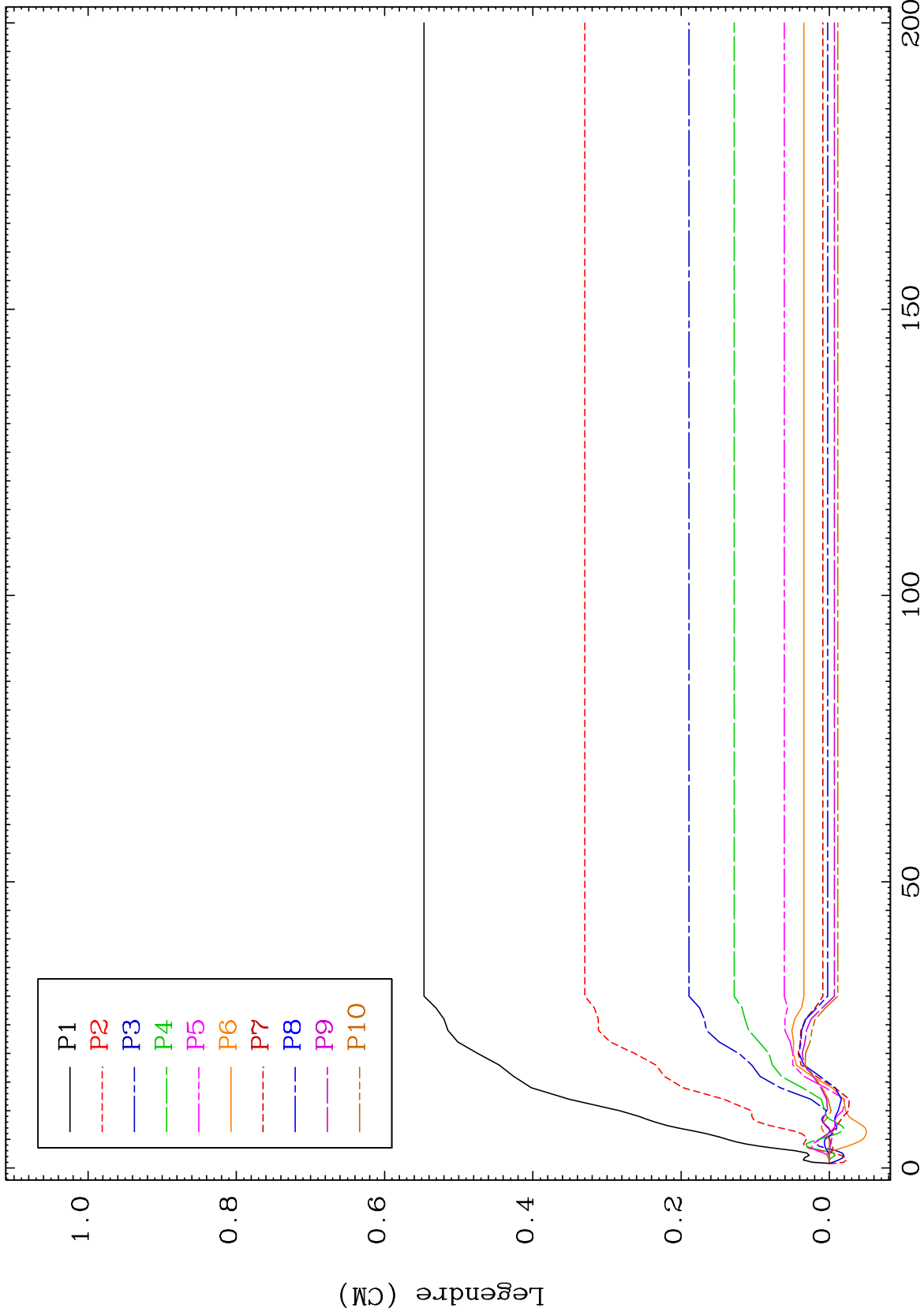




MAT 81113

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

81-T1-199



24

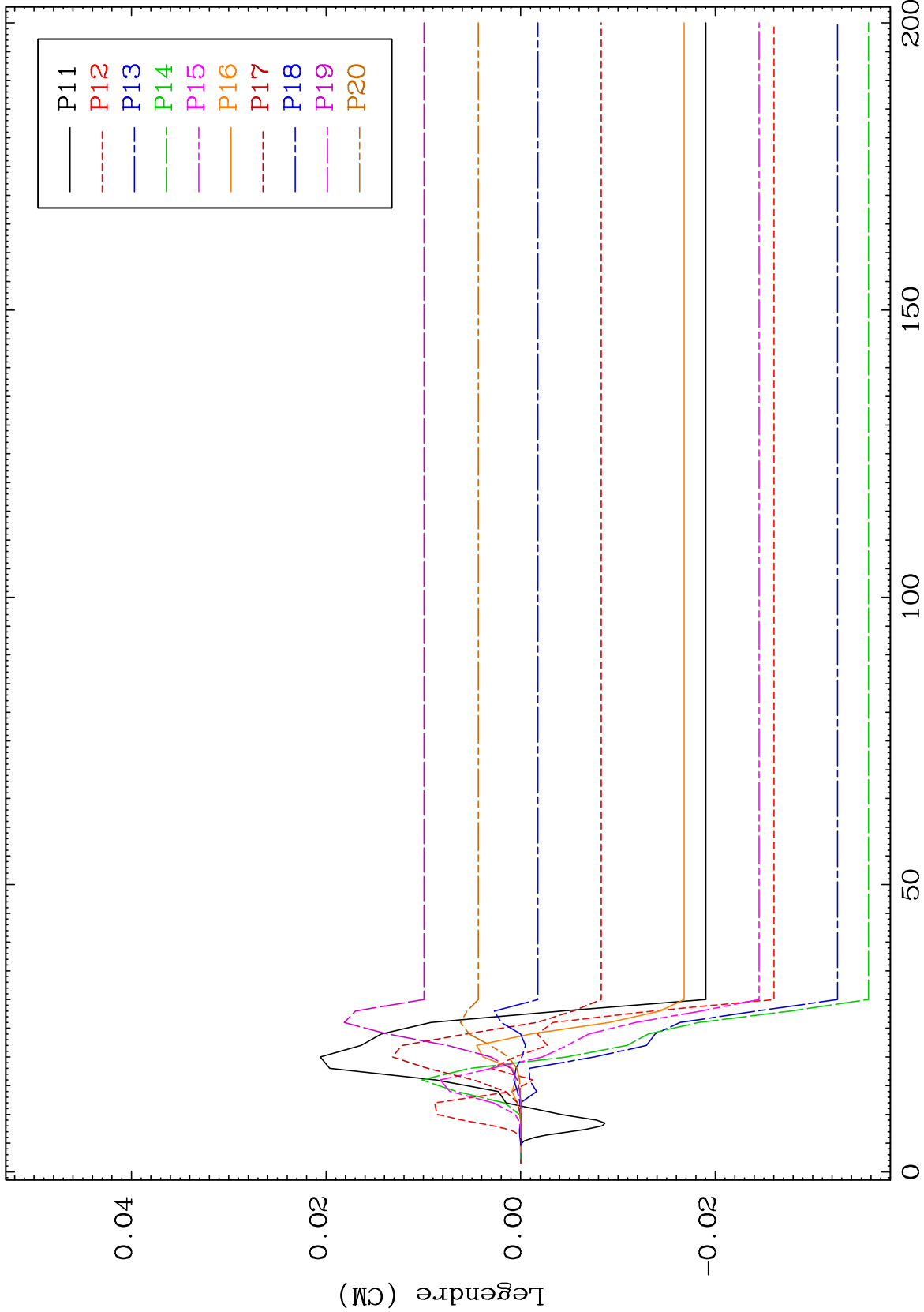
Incident Energy (MeV)

81-T1-199

MAT 81113

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

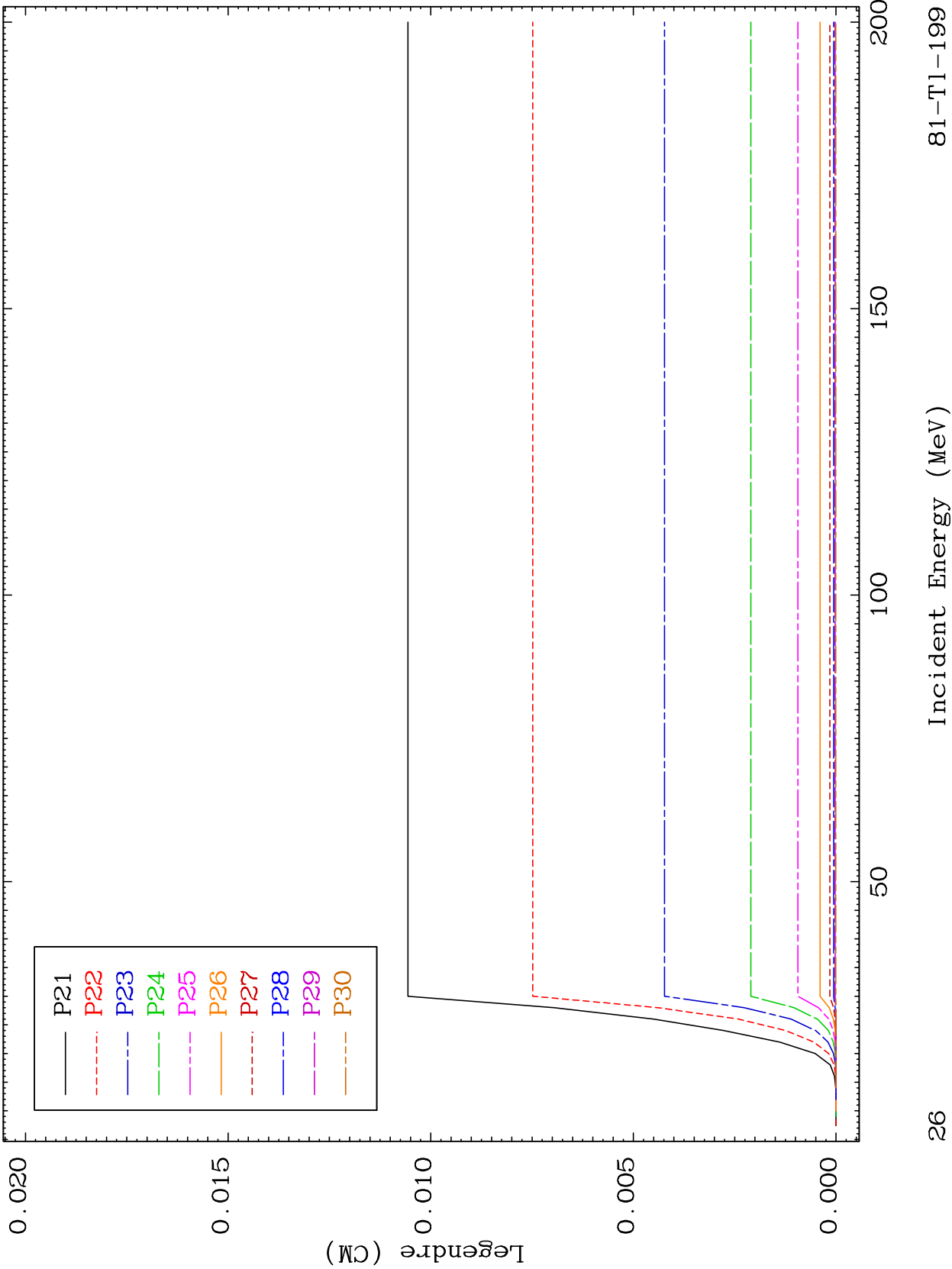
81-T1-199



25

Incident Energy (MeV)

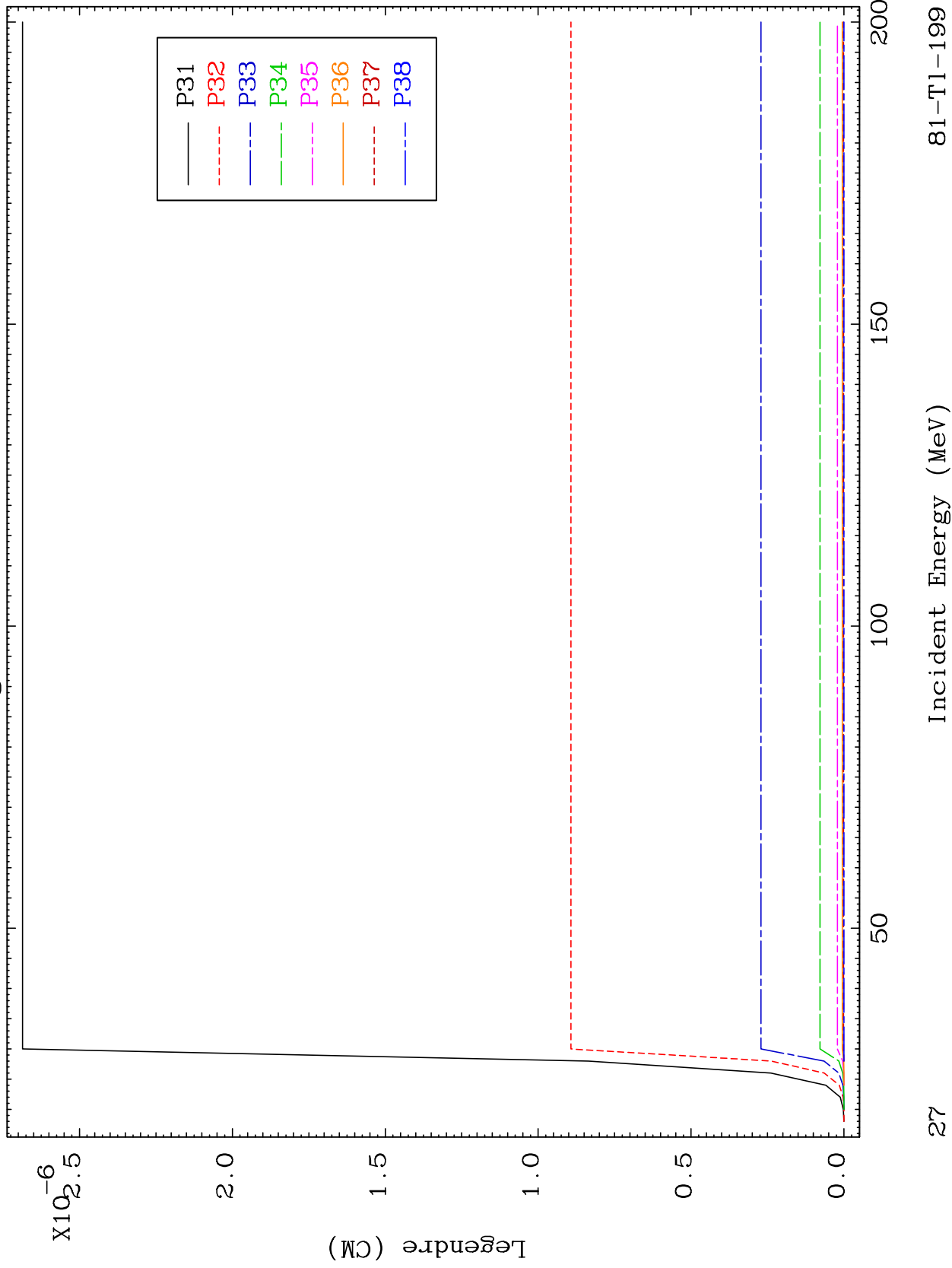
81-T1-199



MAT 8113

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

81-Tl-199



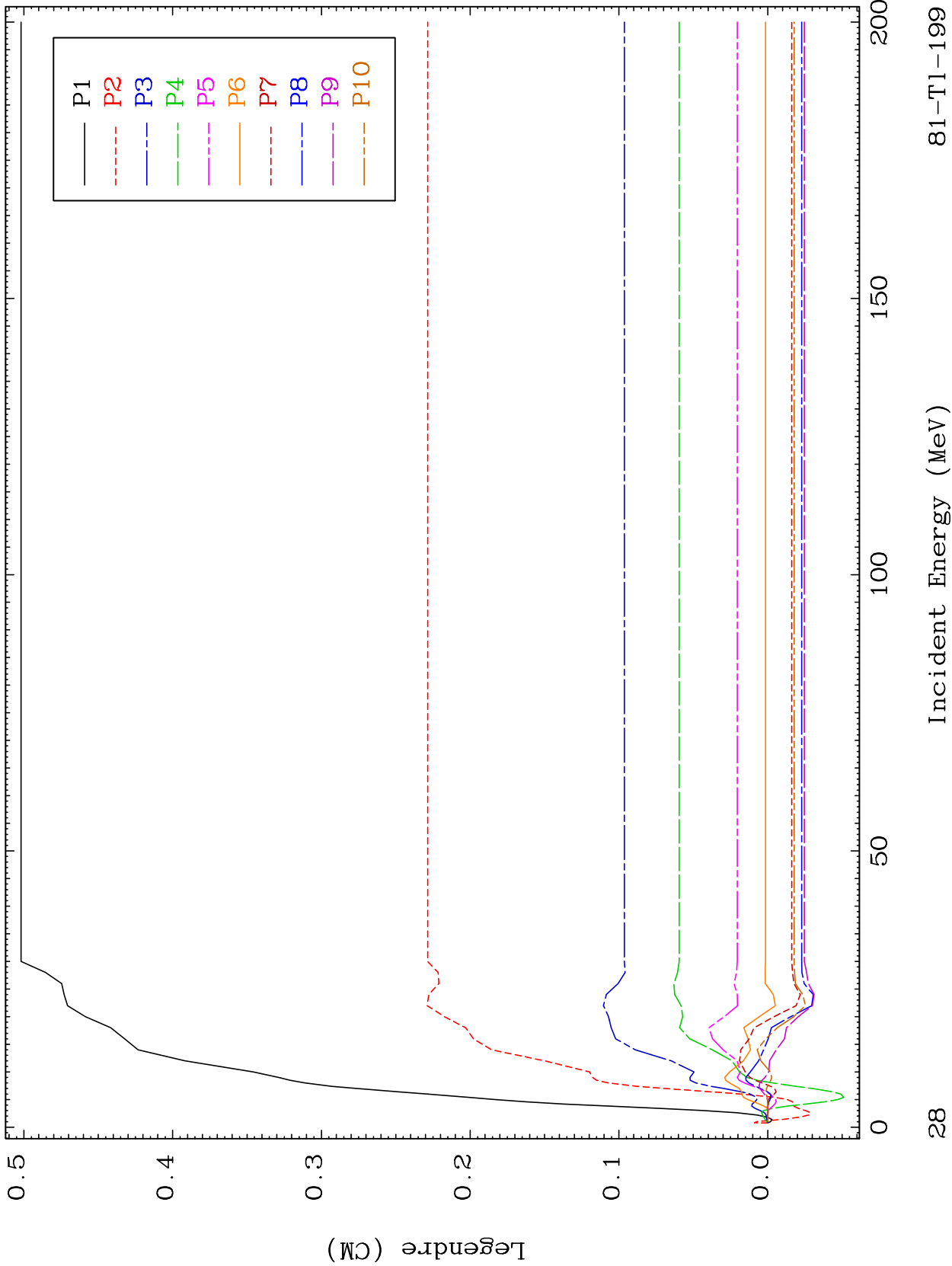
27

81-Tl-199

MAT 81113

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

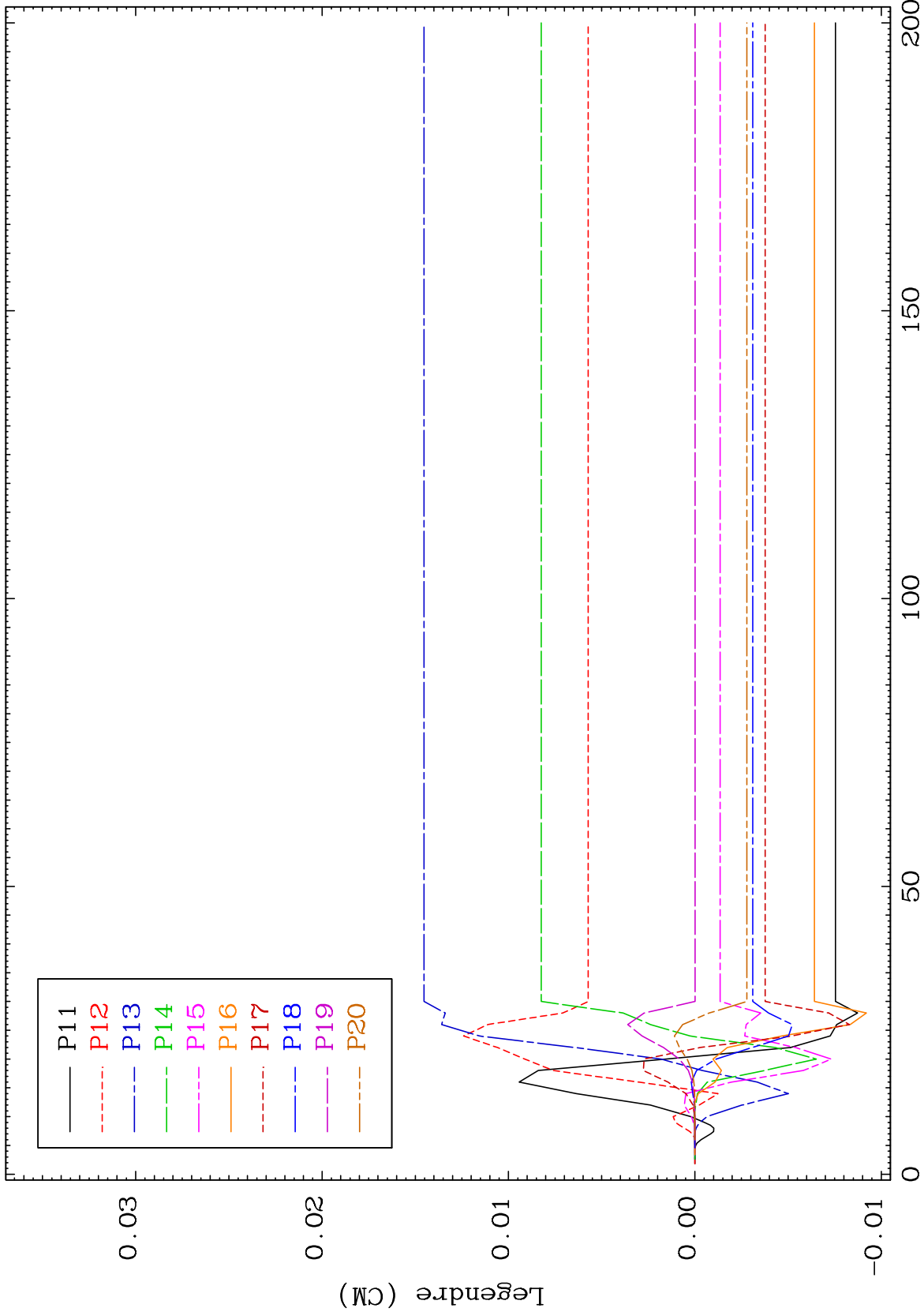
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MAT 8113

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

81-T1-199



29

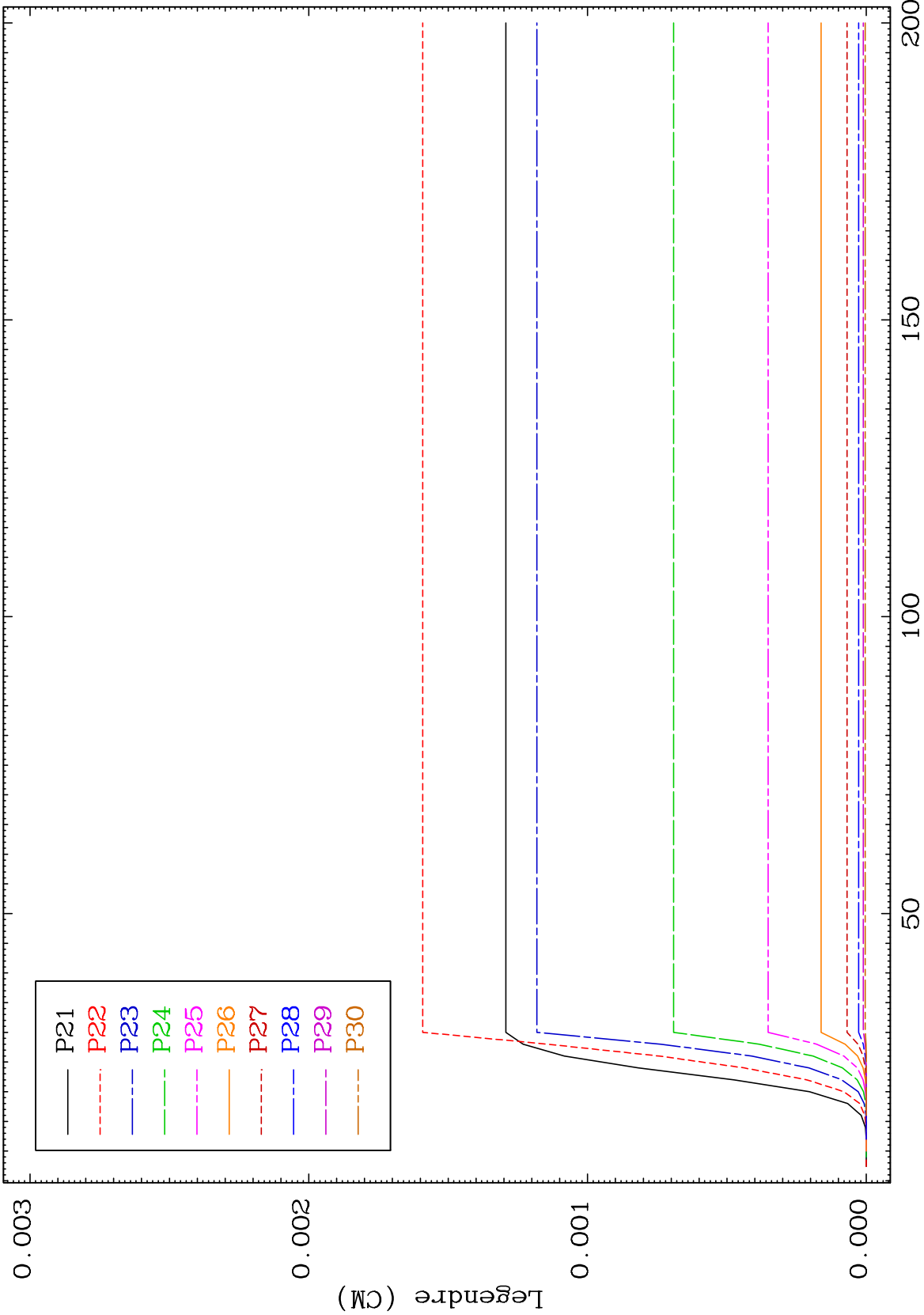
Incident Energy (MeV)

81-T1-199

MAT 81113

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

81-T1-199



30

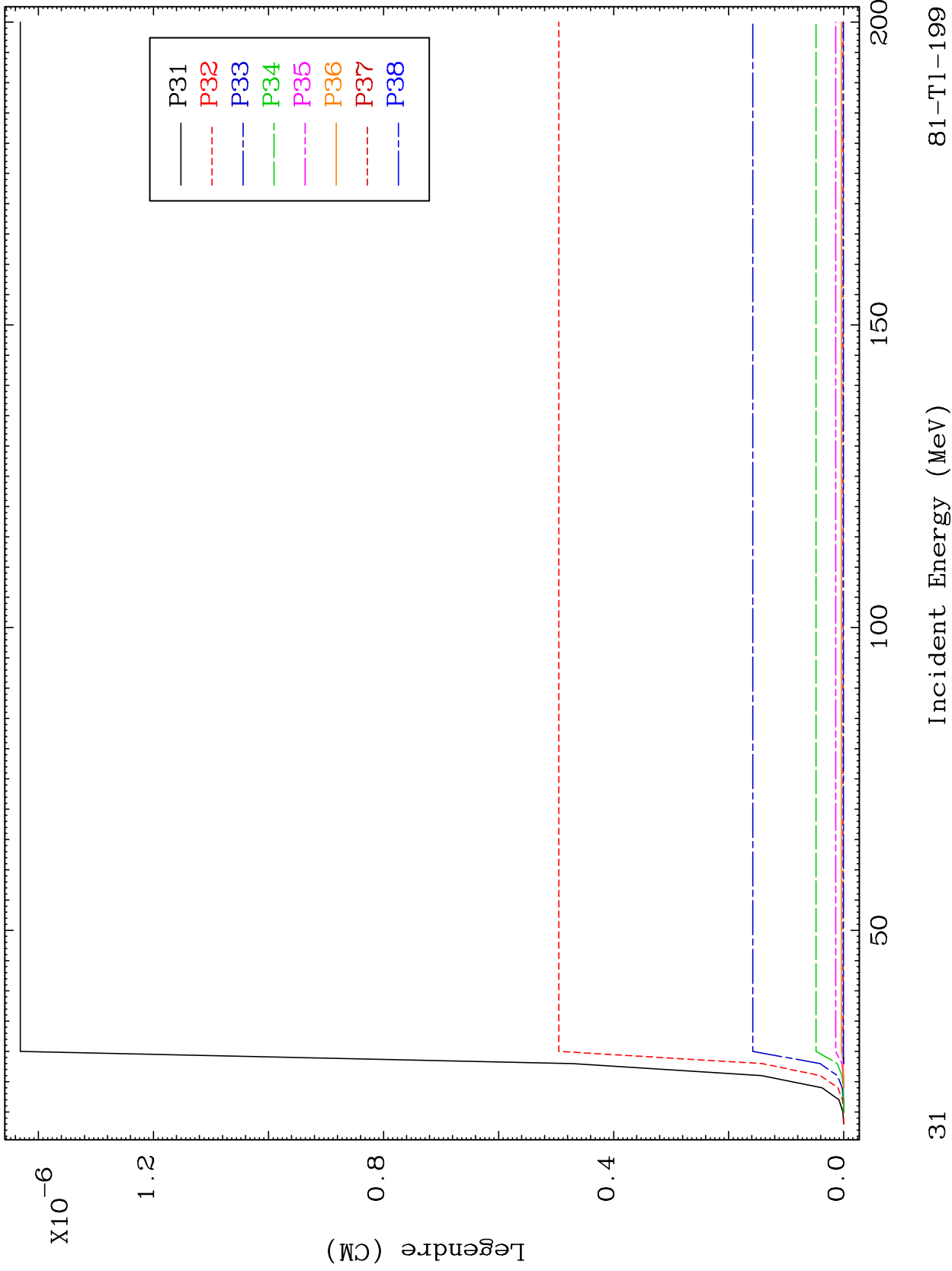
Incident Energy (MeV)

81-T1-199

MAT 81113

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

81-T1-199

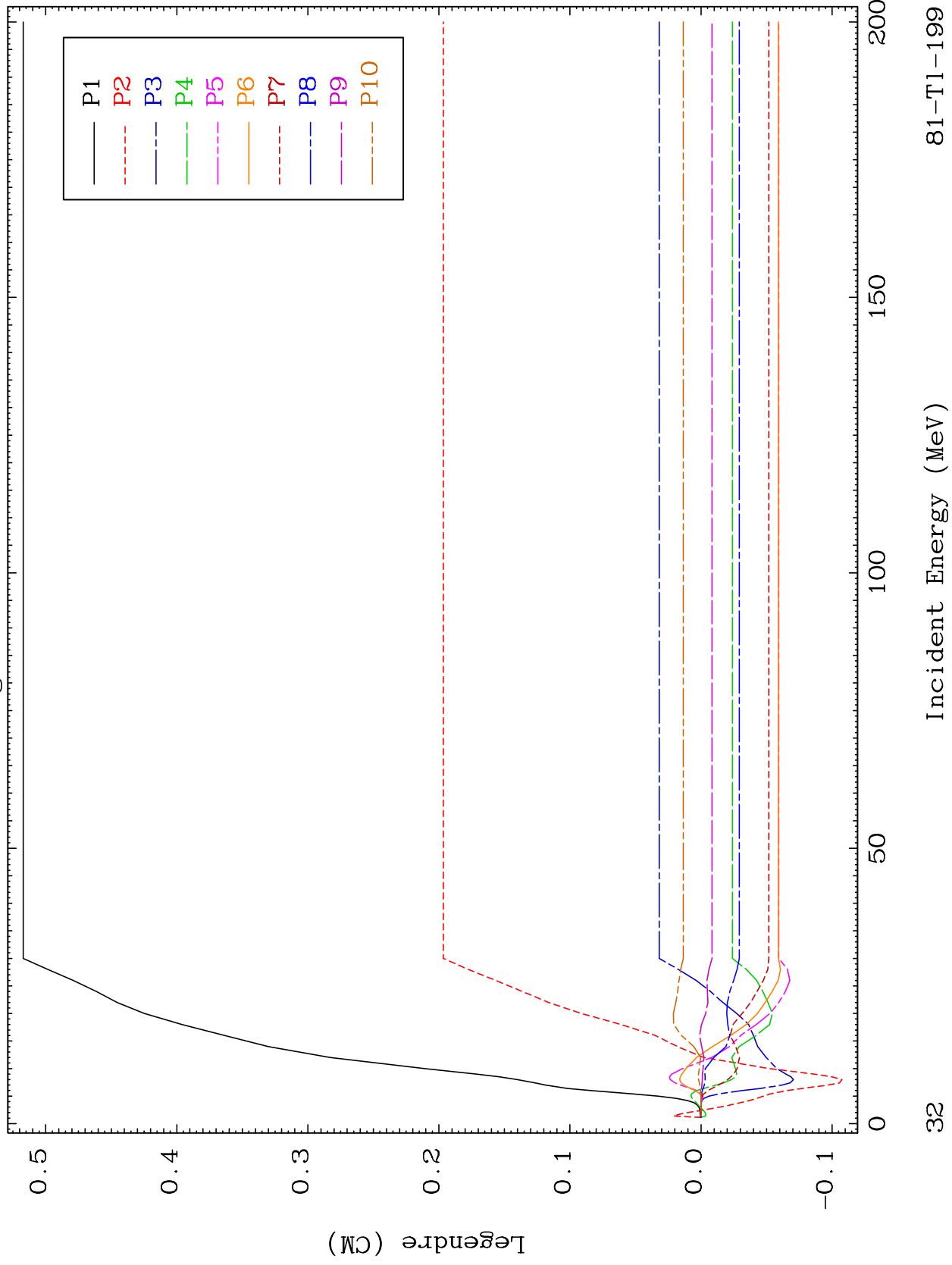




MAT 81113

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

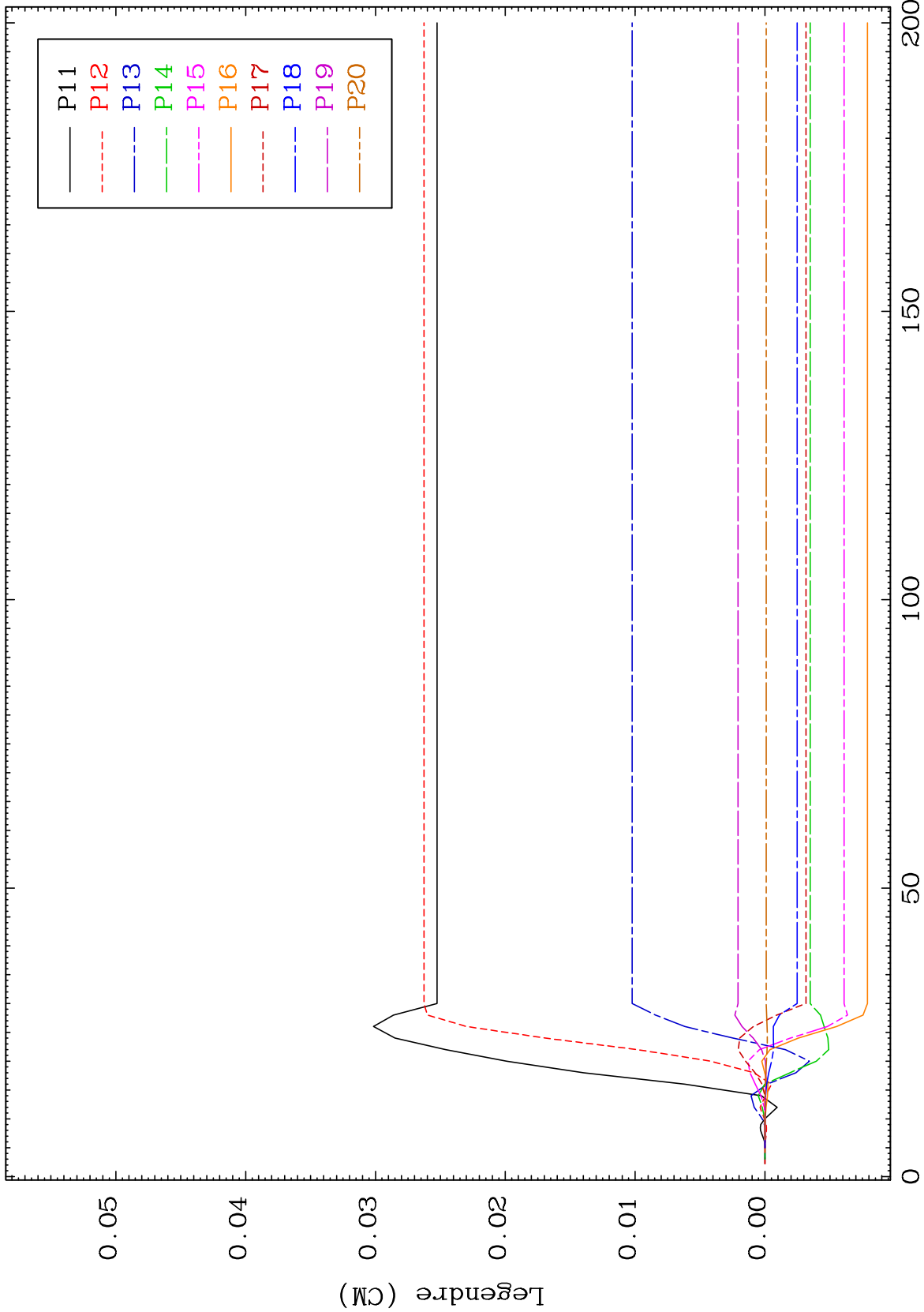
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MAT 81113

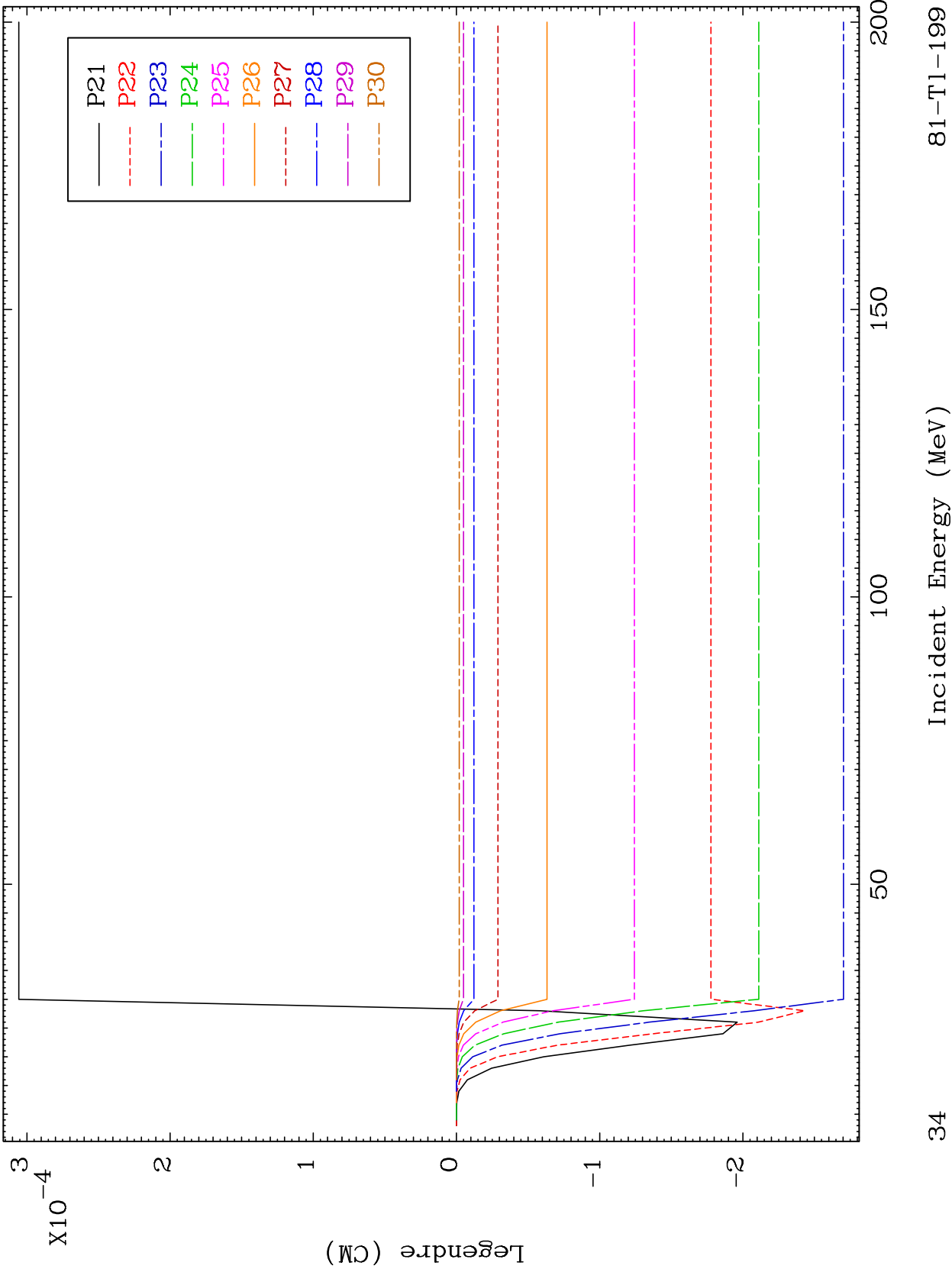
MT= 54 (n,n') Level  
Legendre Coefficients

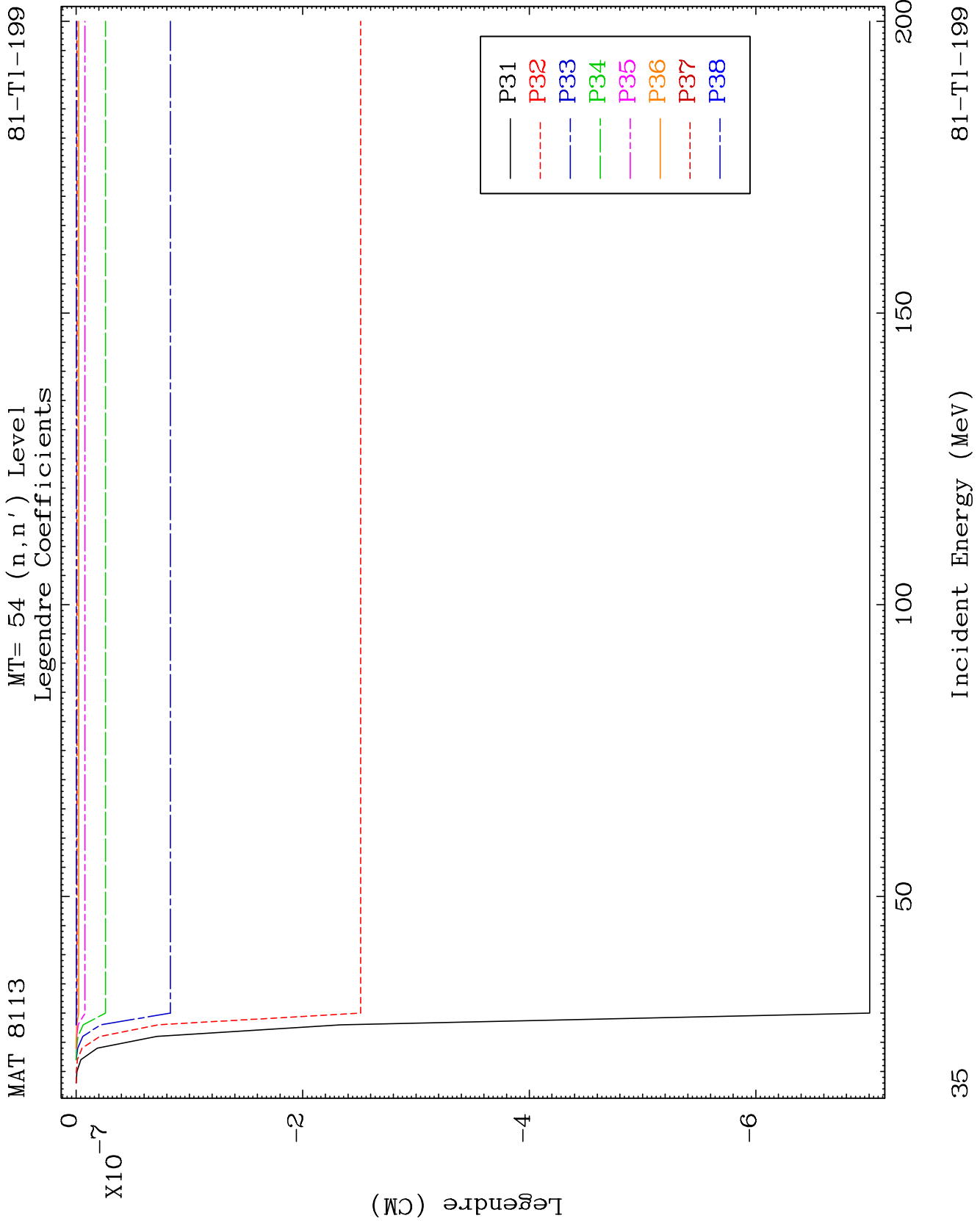
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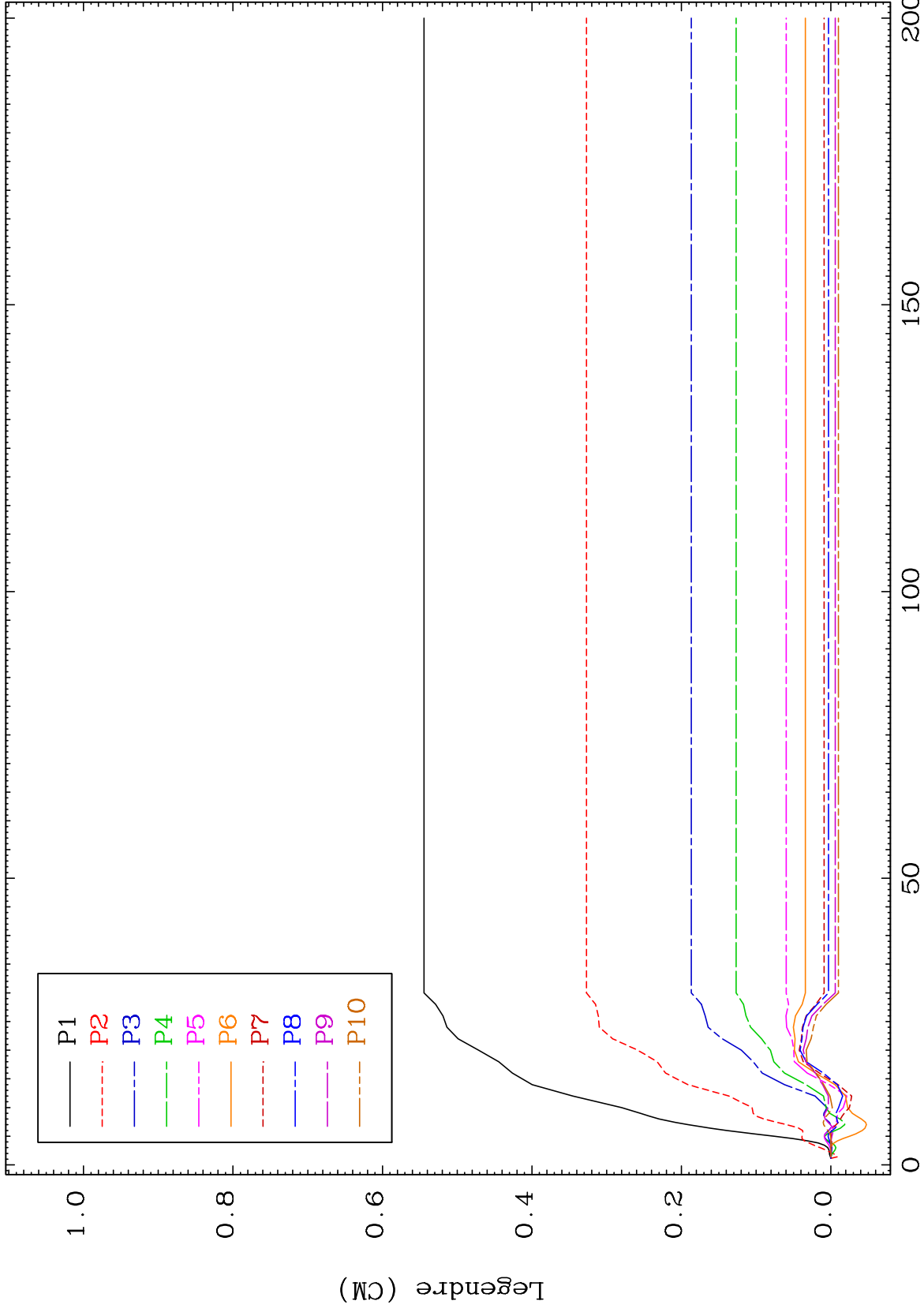


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81-T1-199



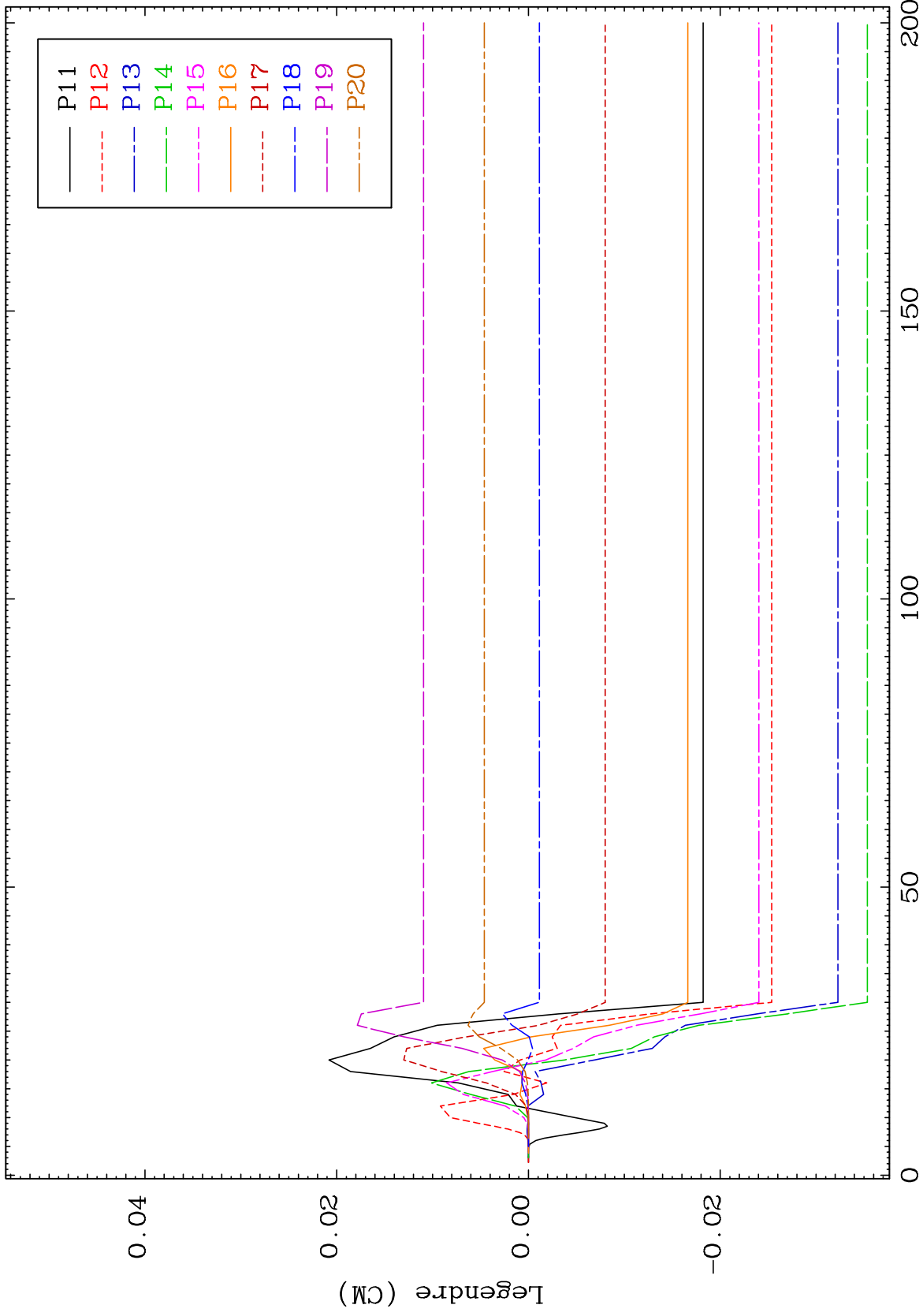




MAT 81113

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

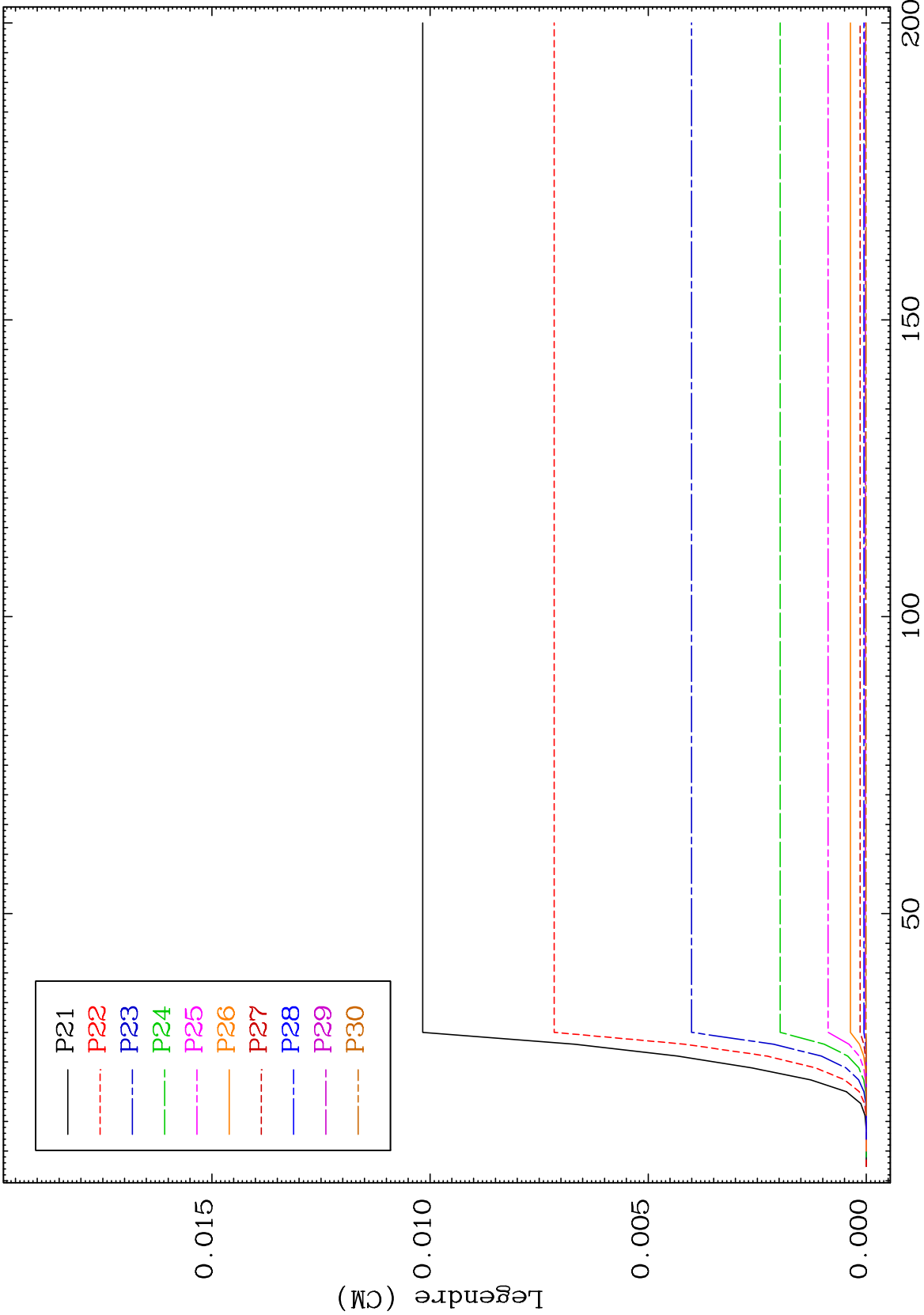
81-T1-199



37

Incident Energy (MeV)

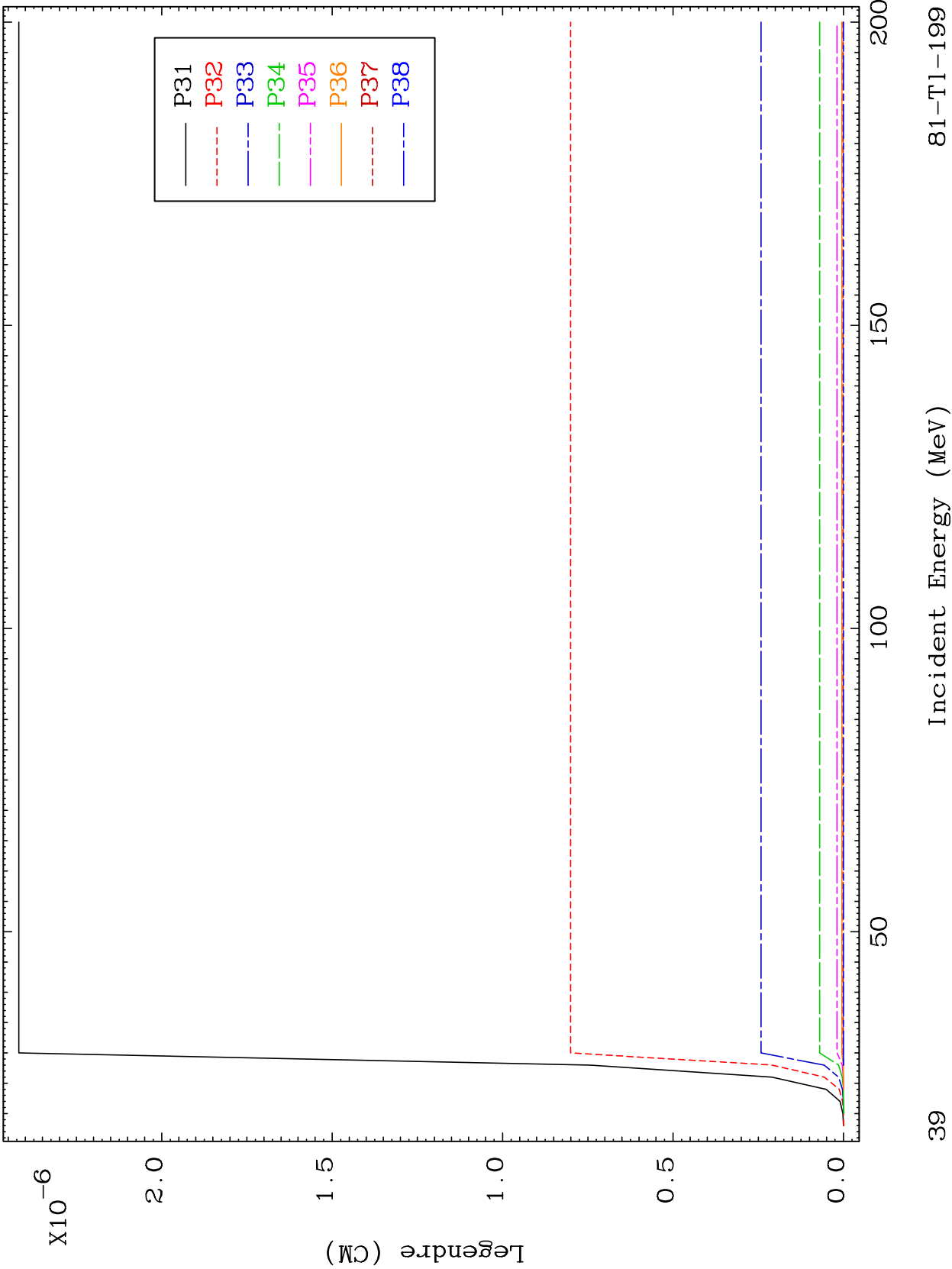
81-T1-199



MAT 81113

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

81-T1-199



39

Incident Energy (MeV)

81-T1-199

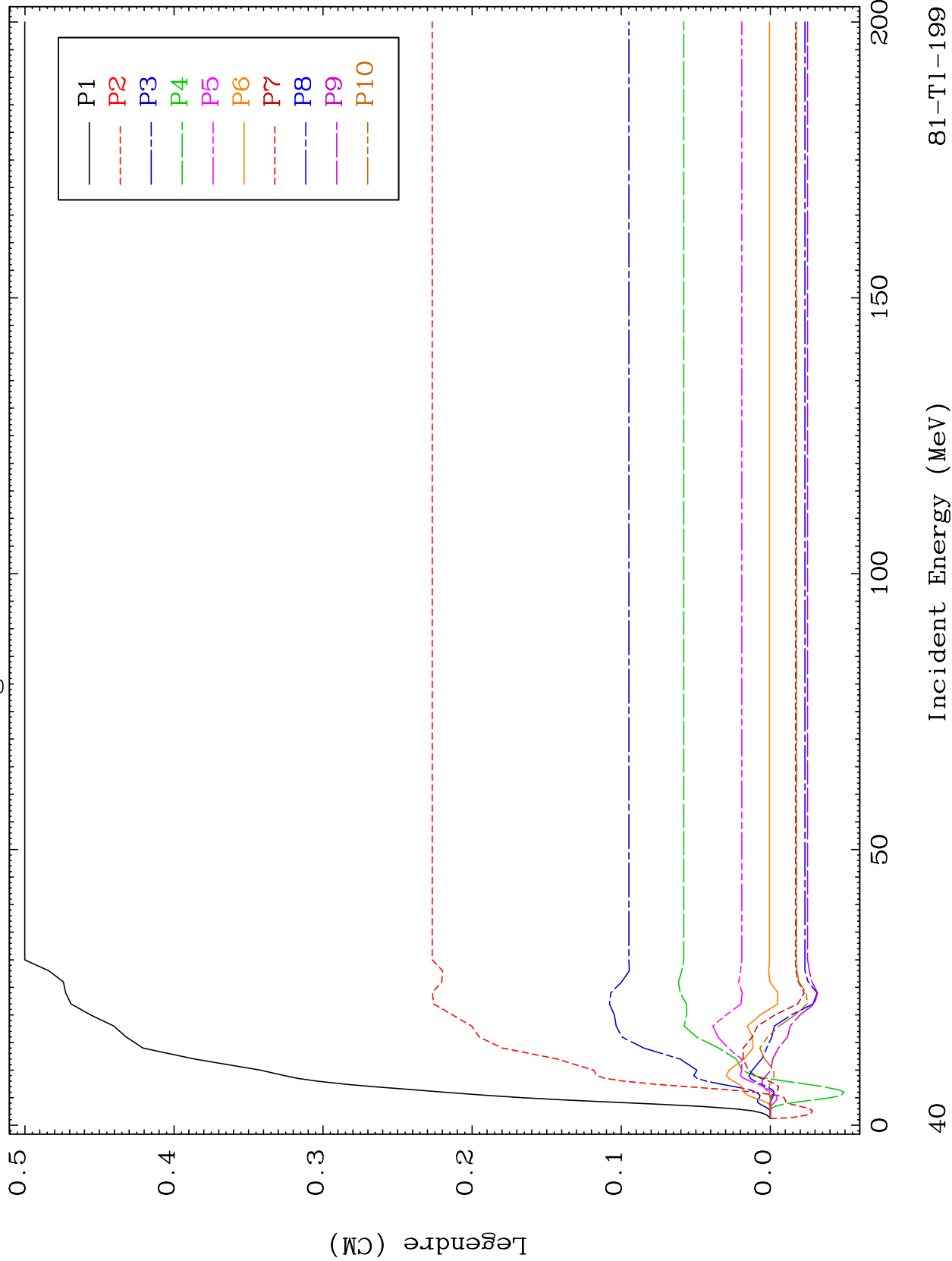


MAT 81113

MT= 56 (n,n') Level

81-T1-199

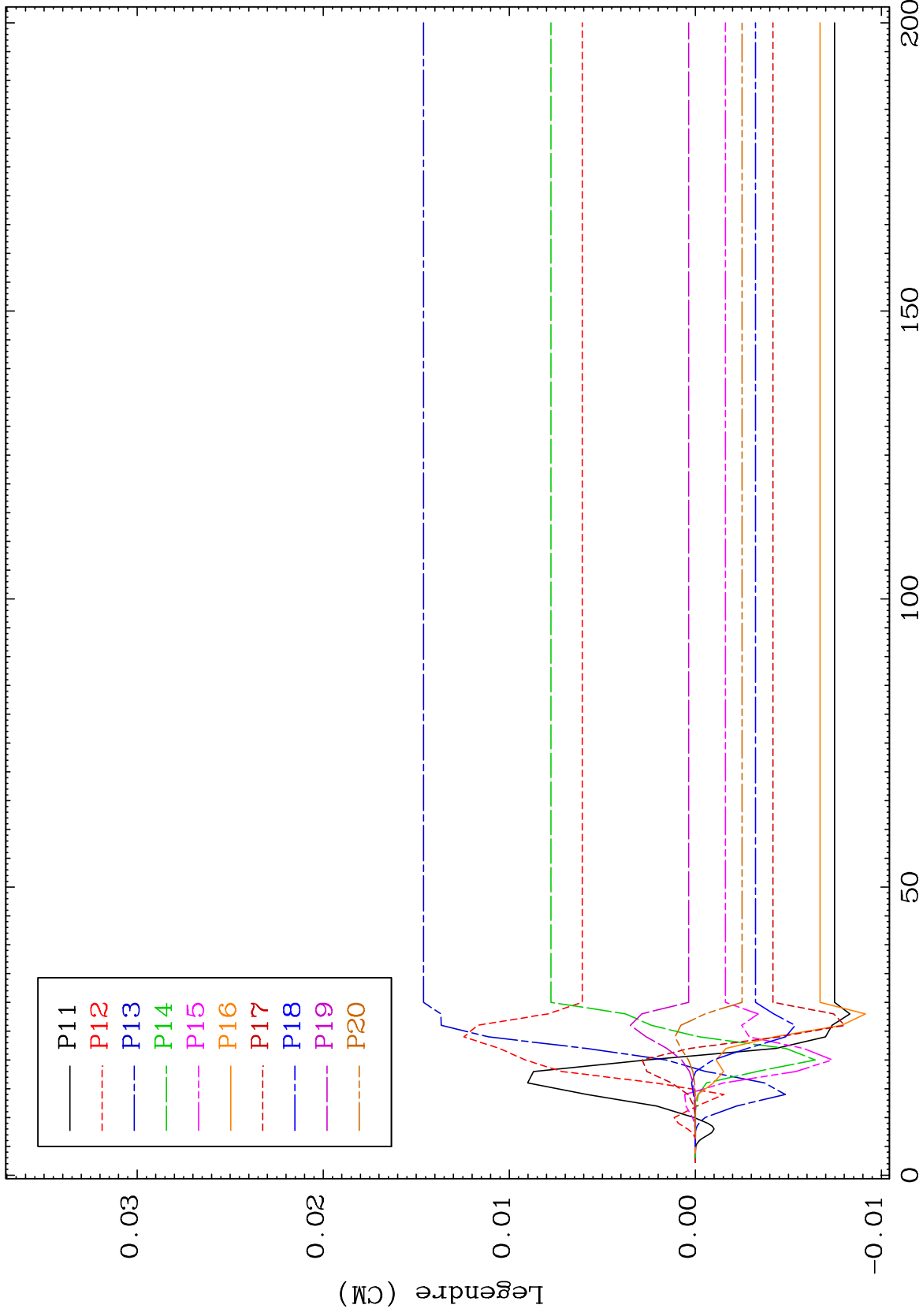
Legendre Coefficients



MAT 8113

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

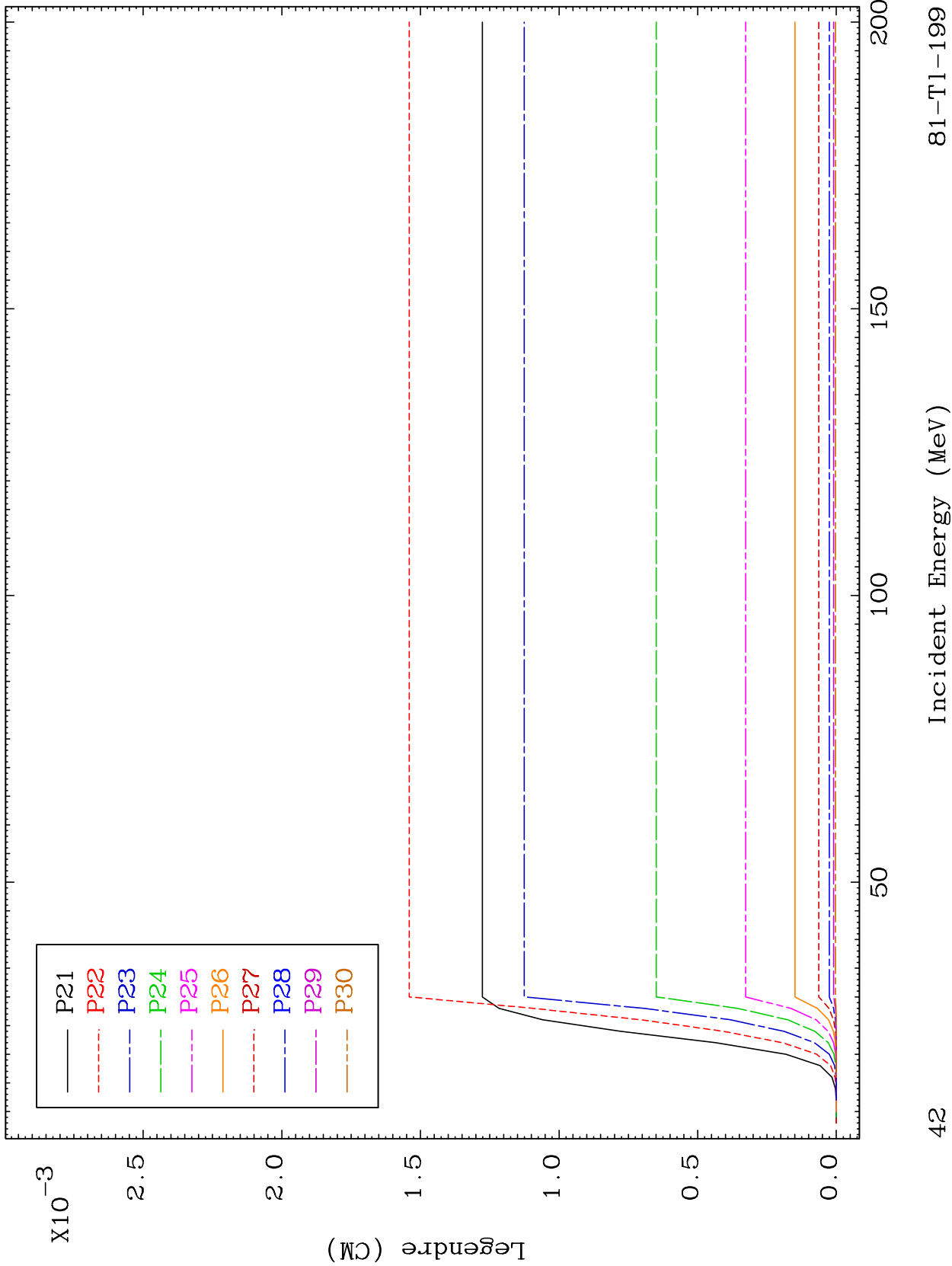
81-T1-199



41

Incident Energy (MeV)

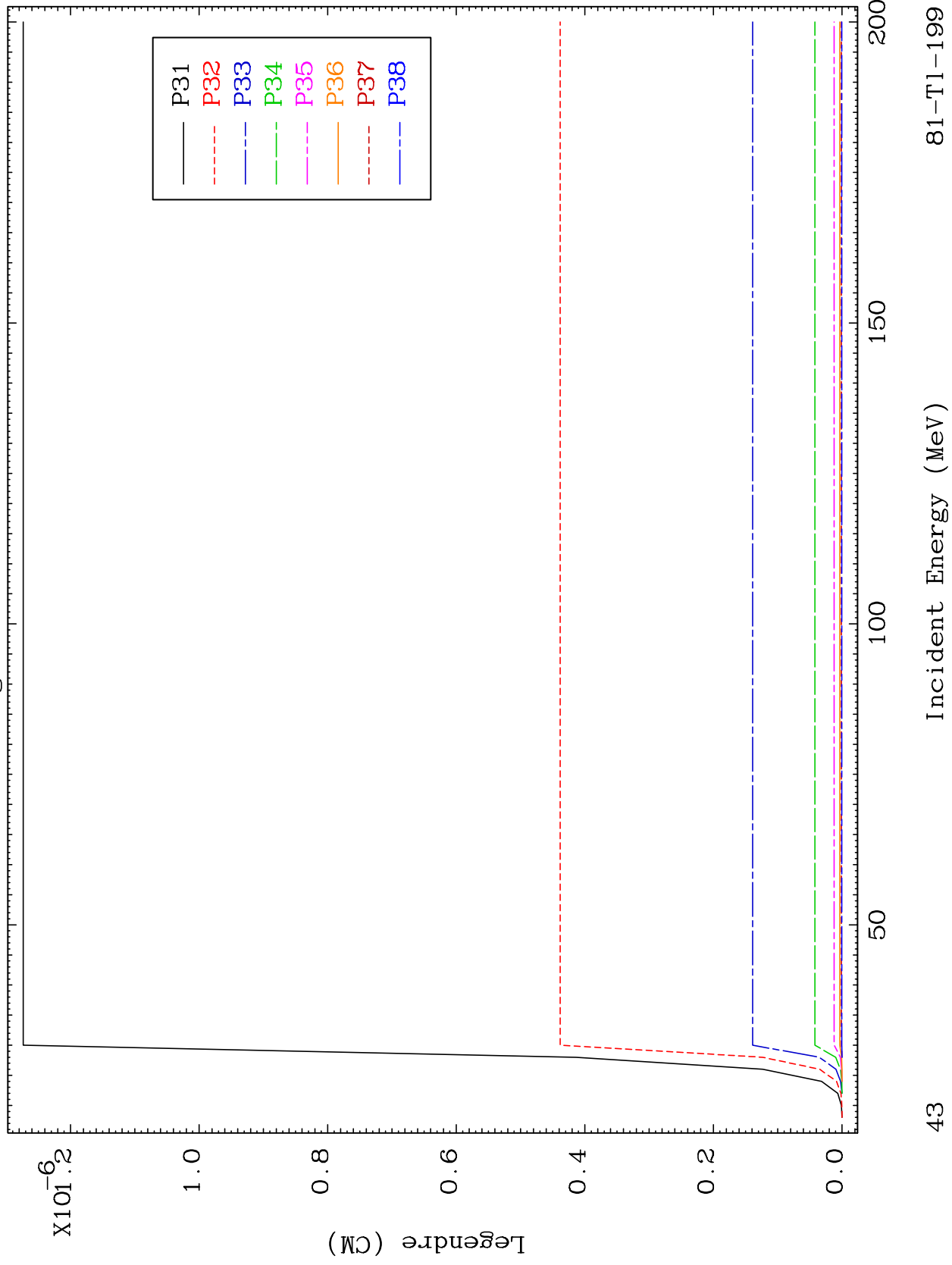
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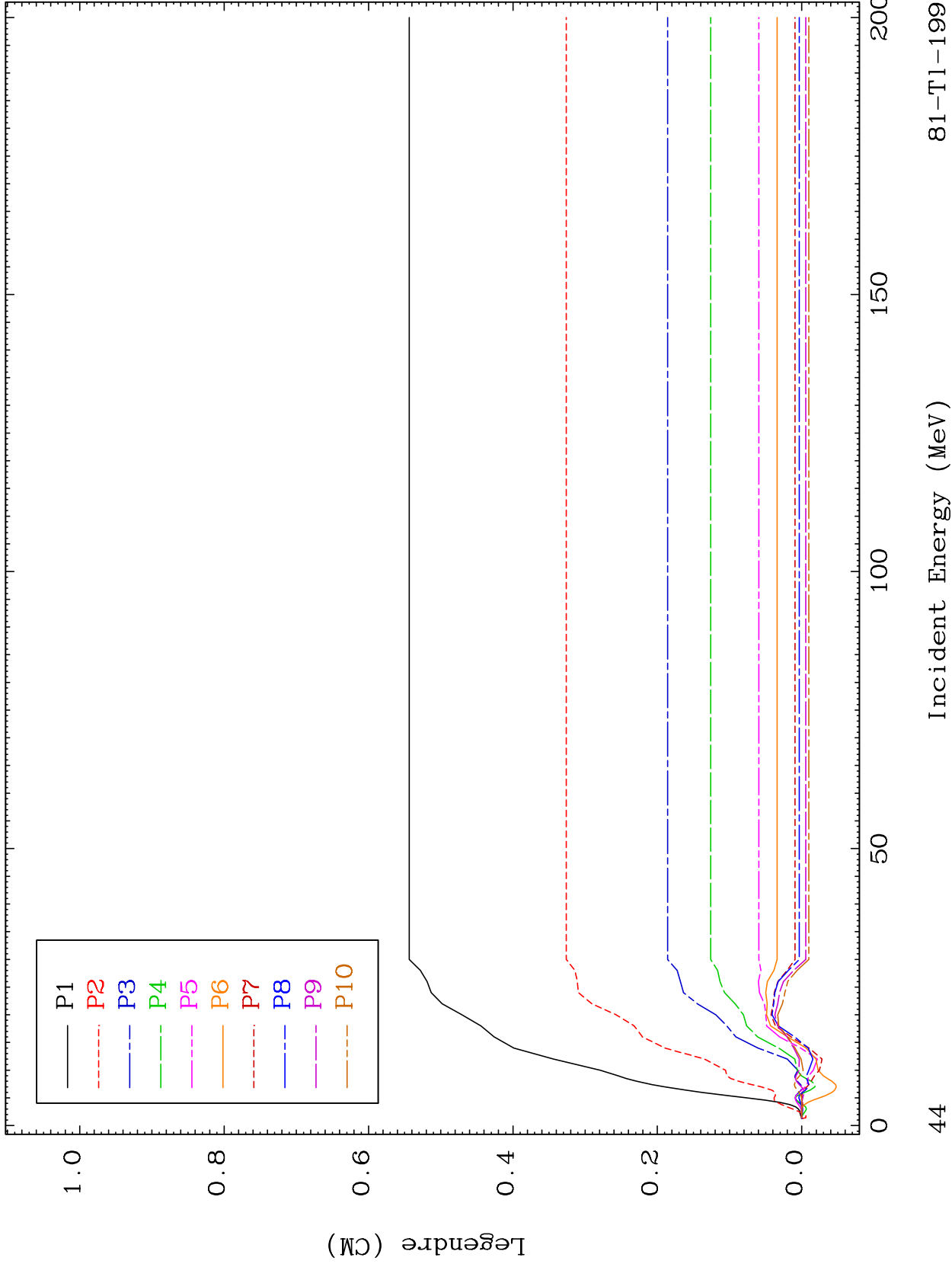
MAT 81113

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

81-T1-199



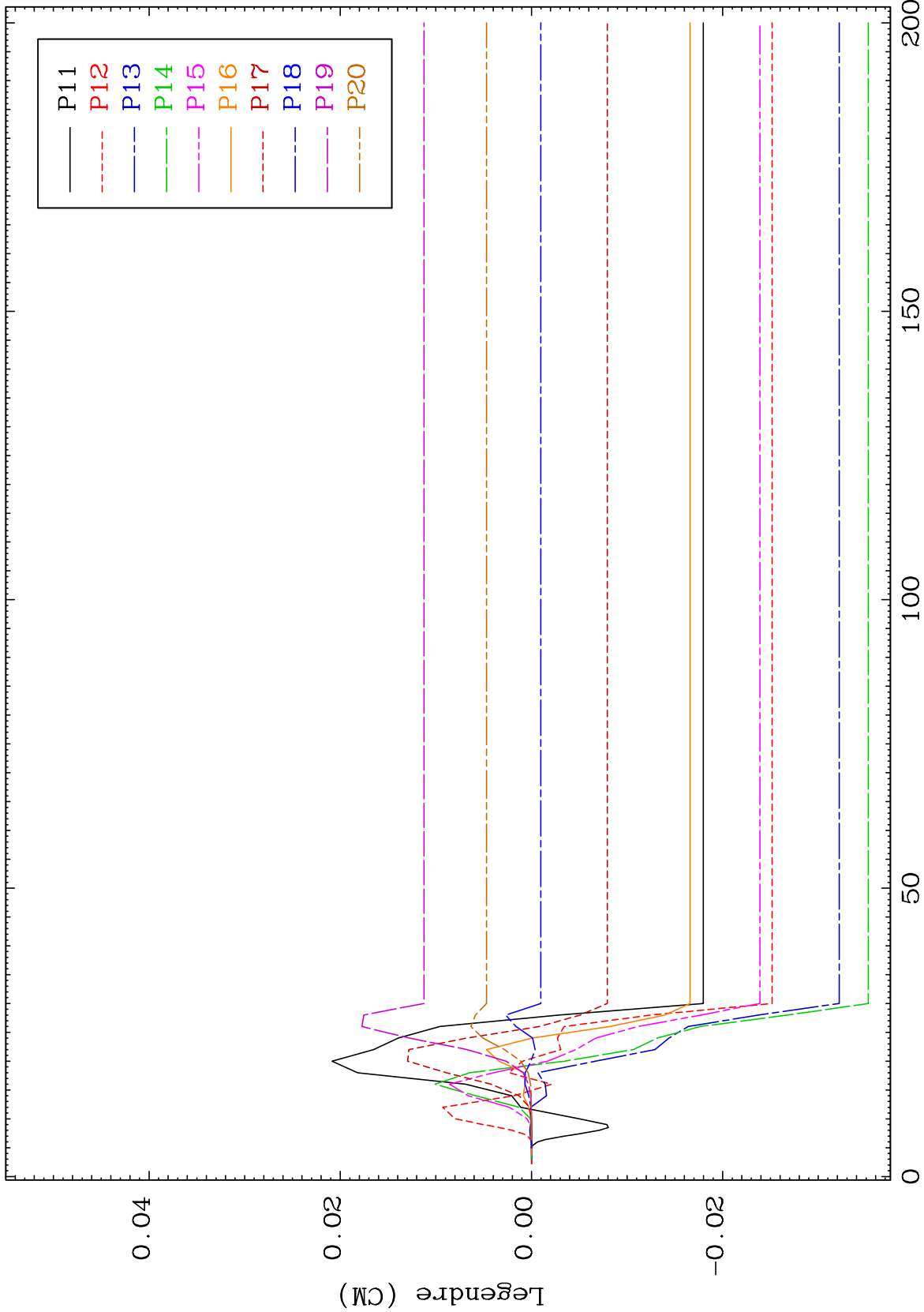
43



MAT 81113

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

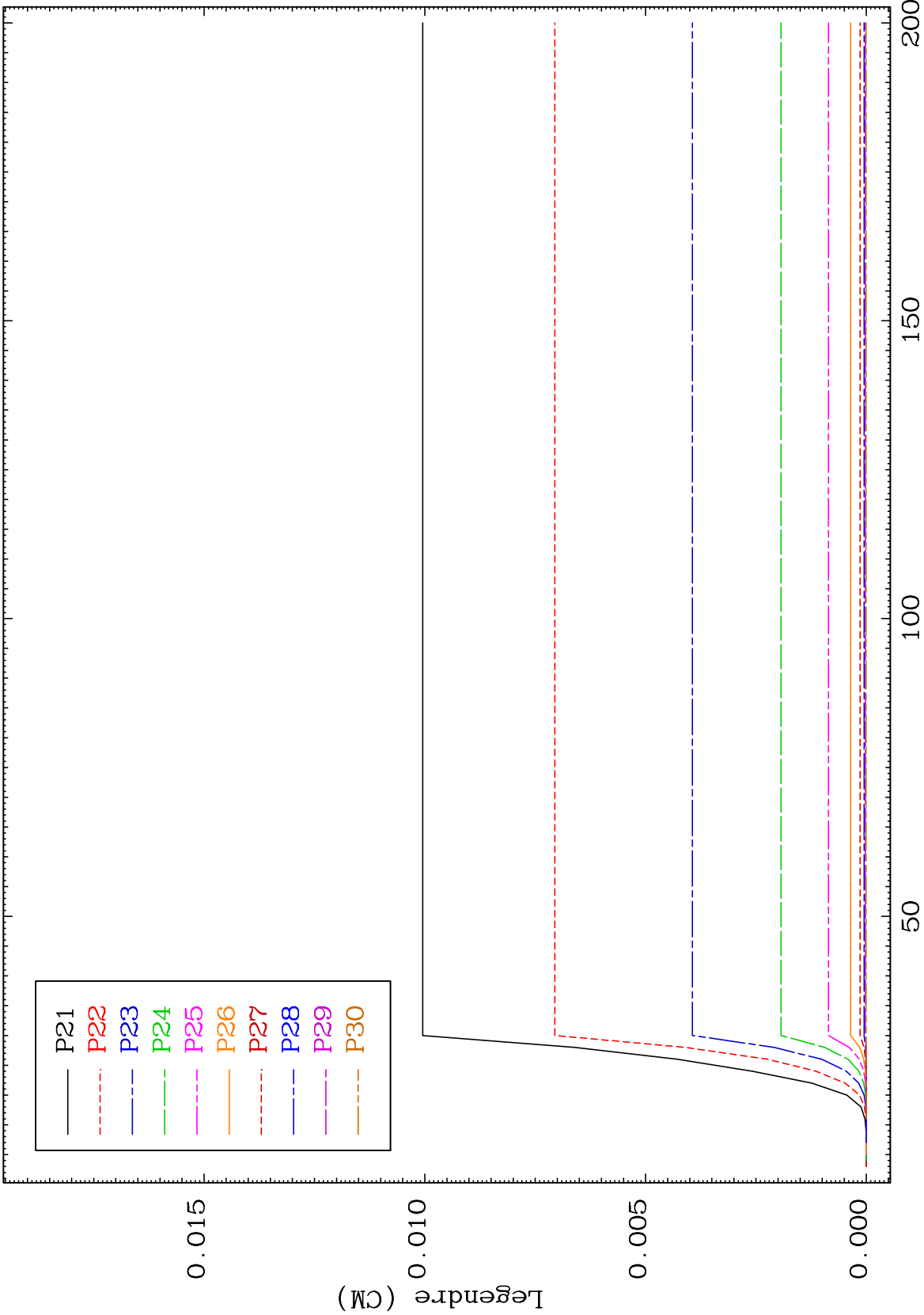
81-T1-199



45

Incident Energy (MeV)

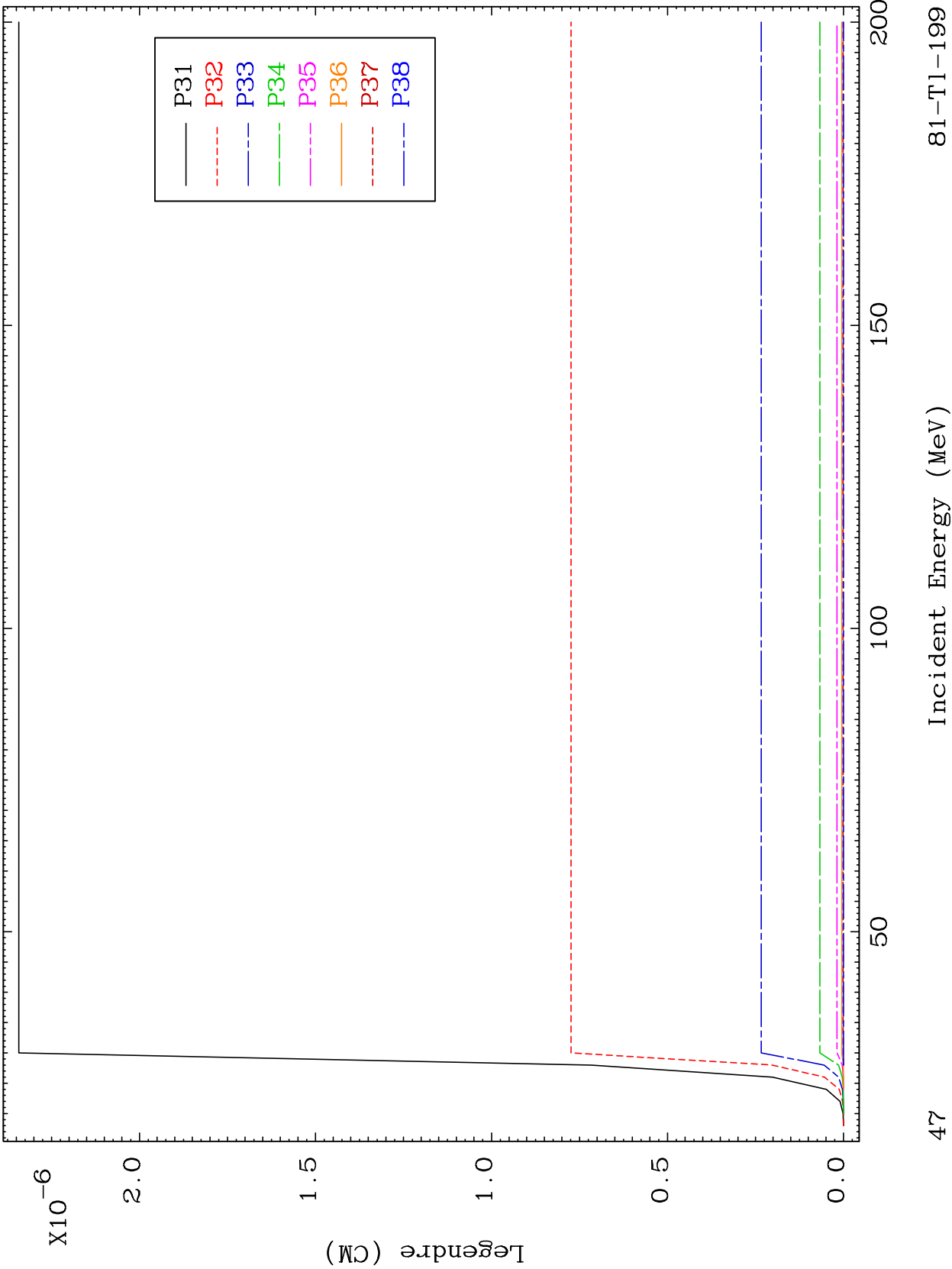
81-T1-199



MAT 81113

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

81-T1-199



47

Incident Energy (MeV)

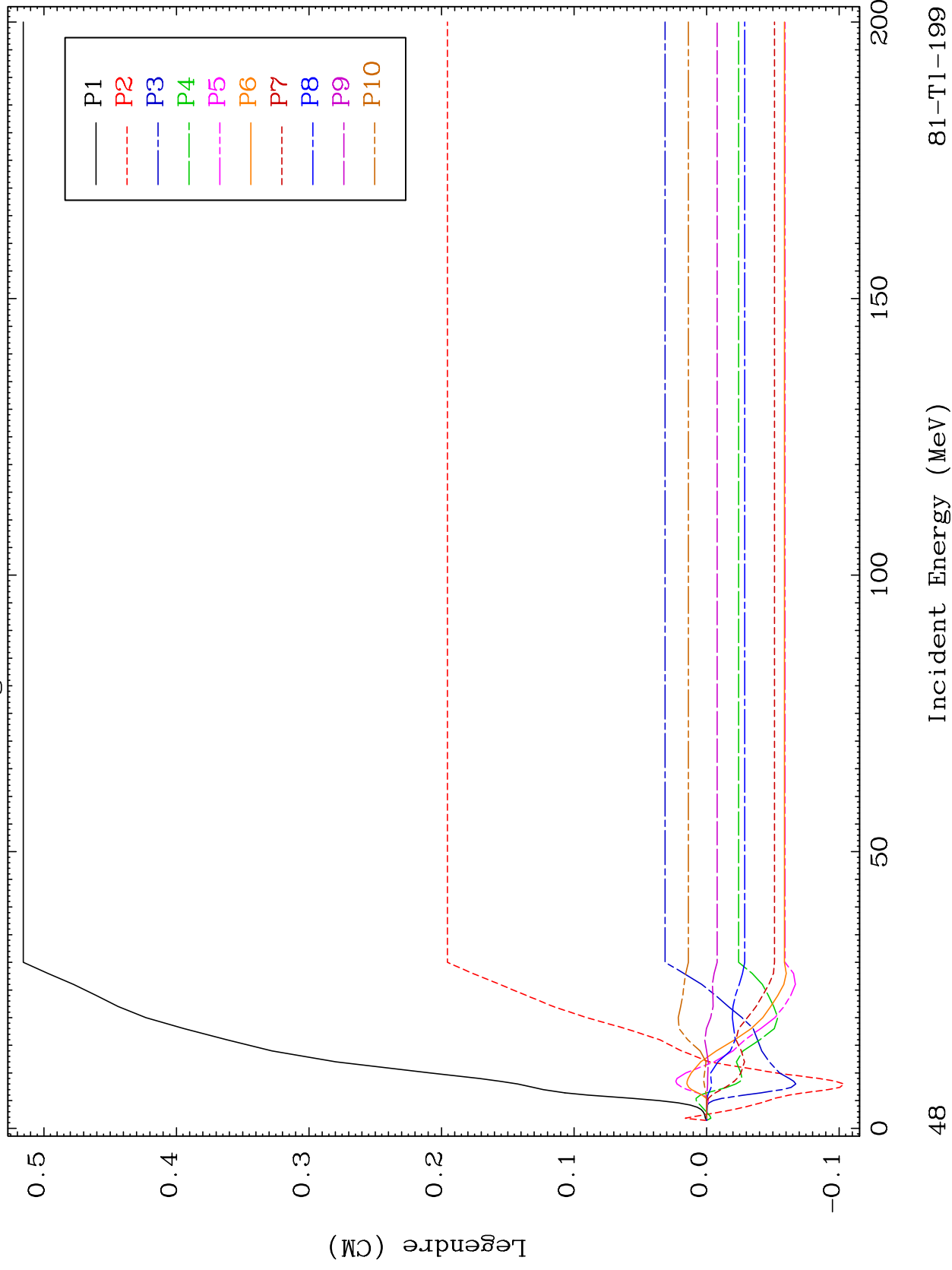
81-T1-199



MAT 81113

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

81-T1-199

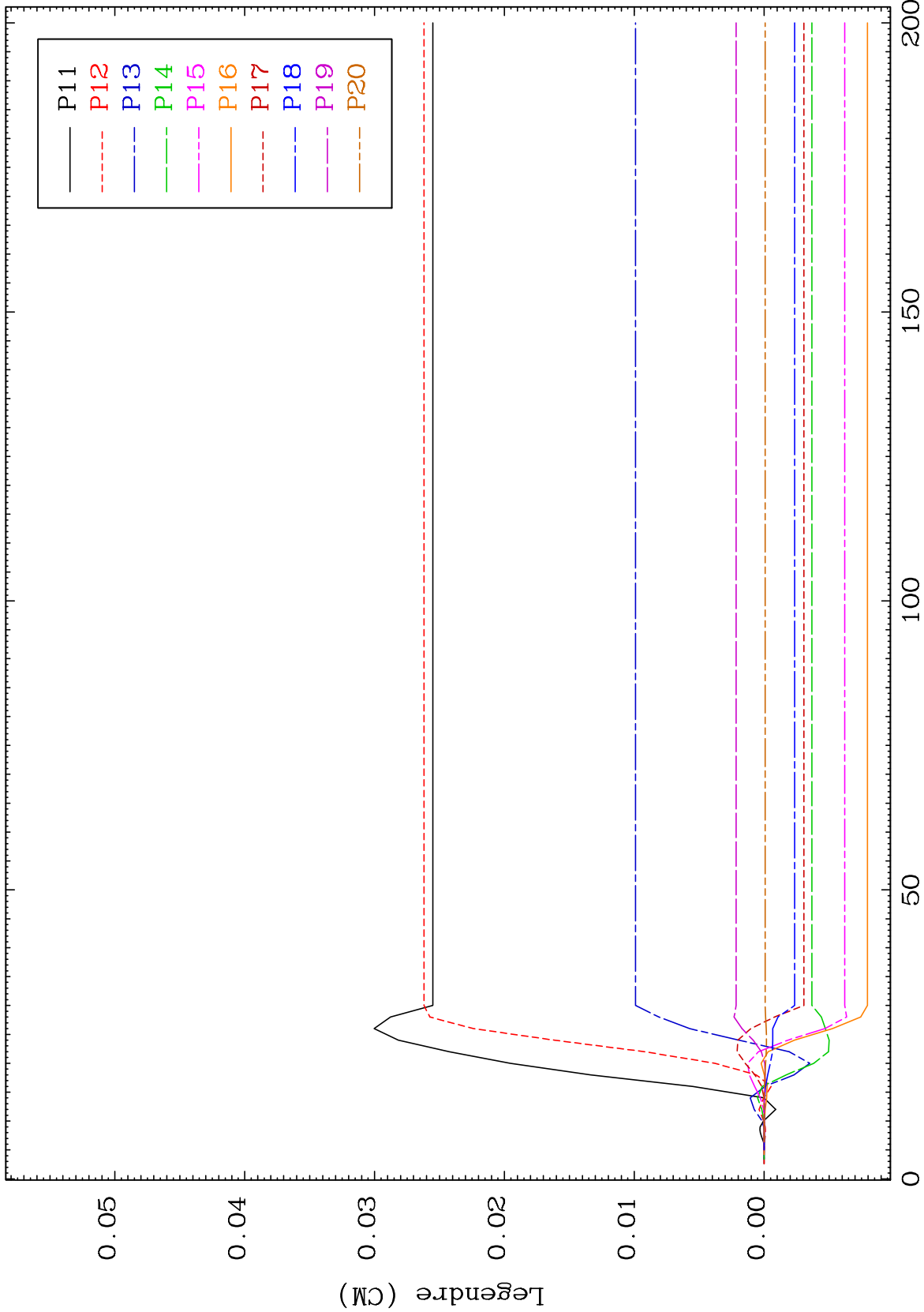


48

MAT 81113

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

81-T1-199



49

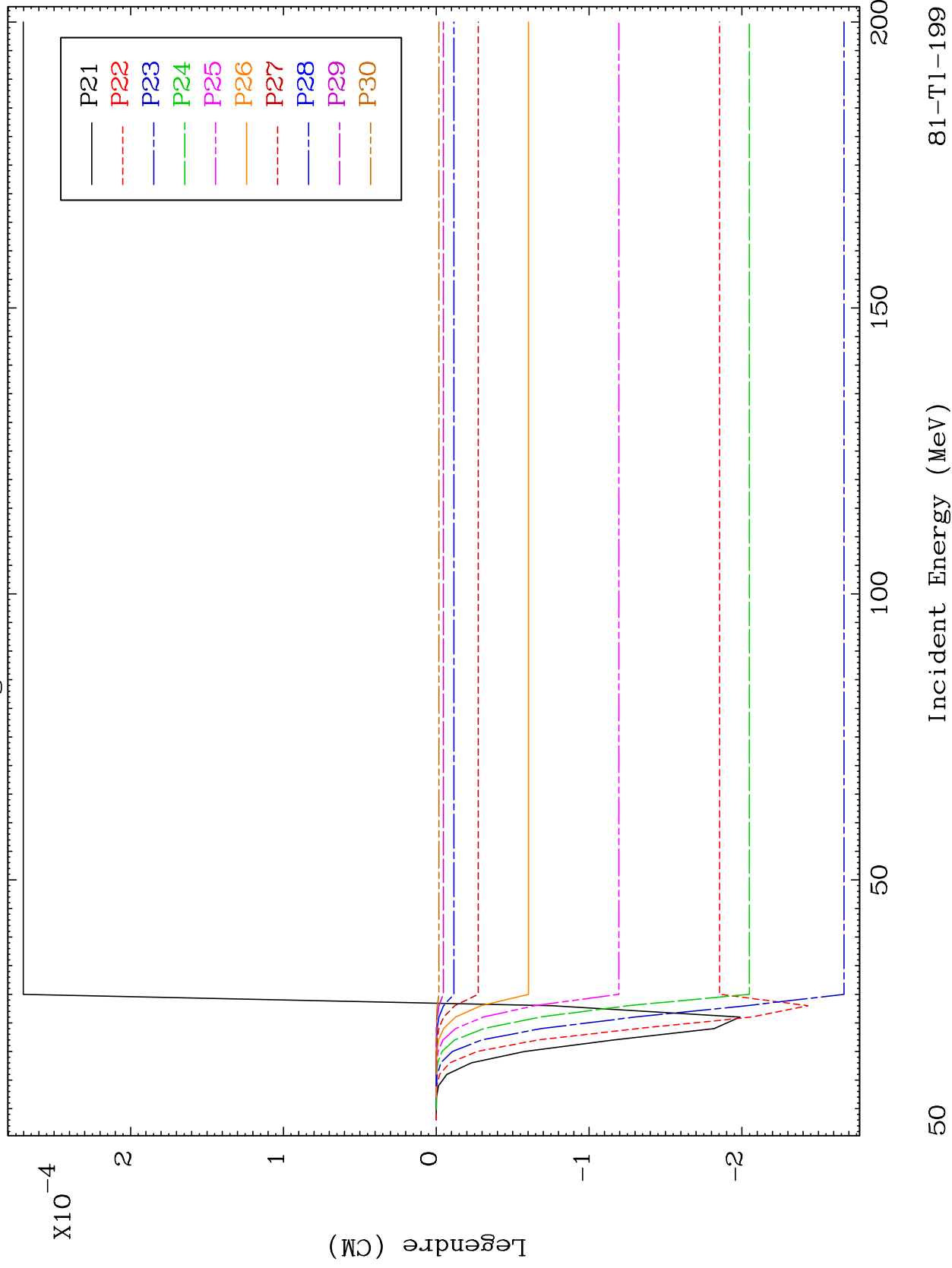
Incident Energy (MeV)

81-T1-199

MAT 81113

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

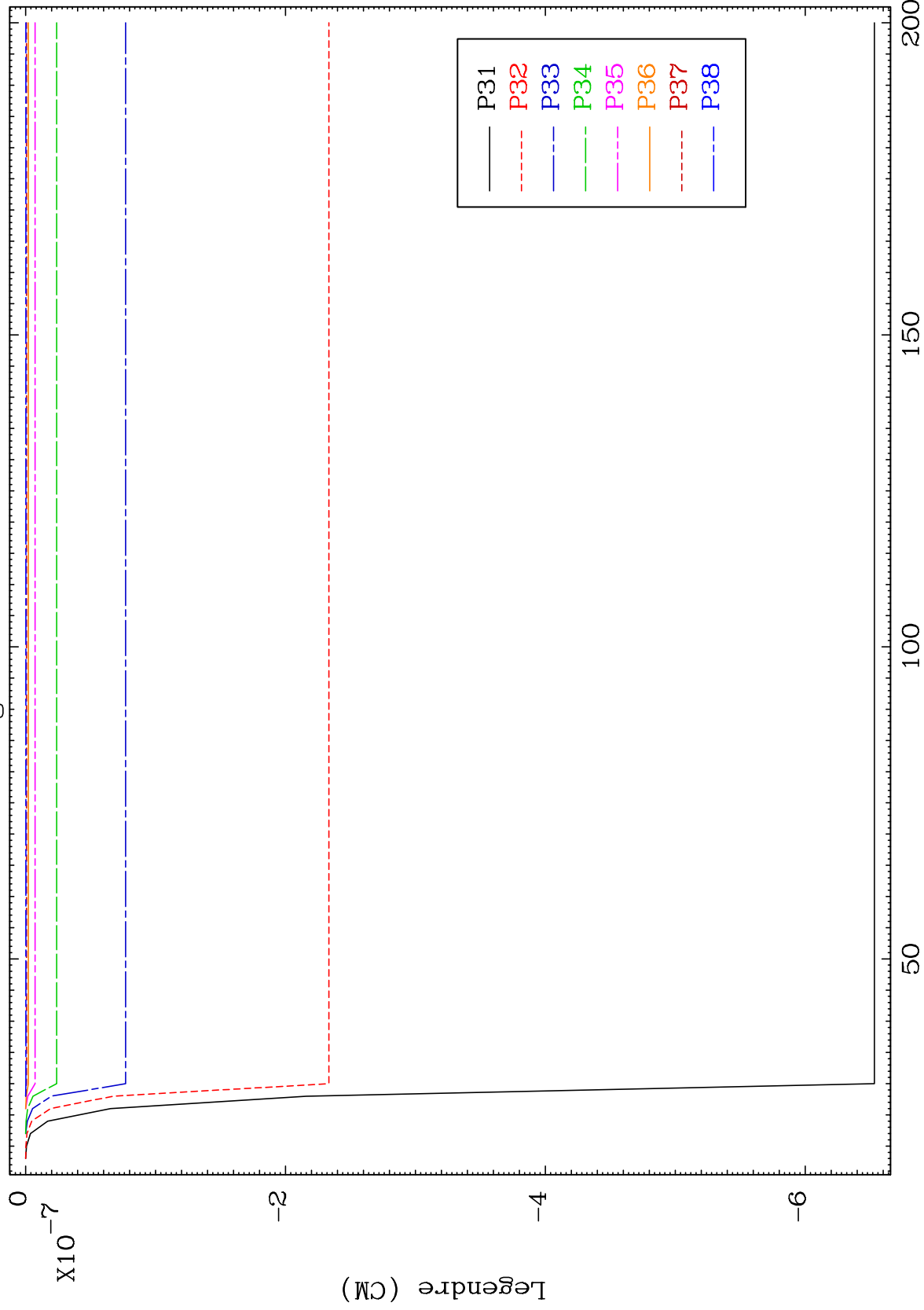
81-T1-199



MAT 8113

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

81-T1-199



51

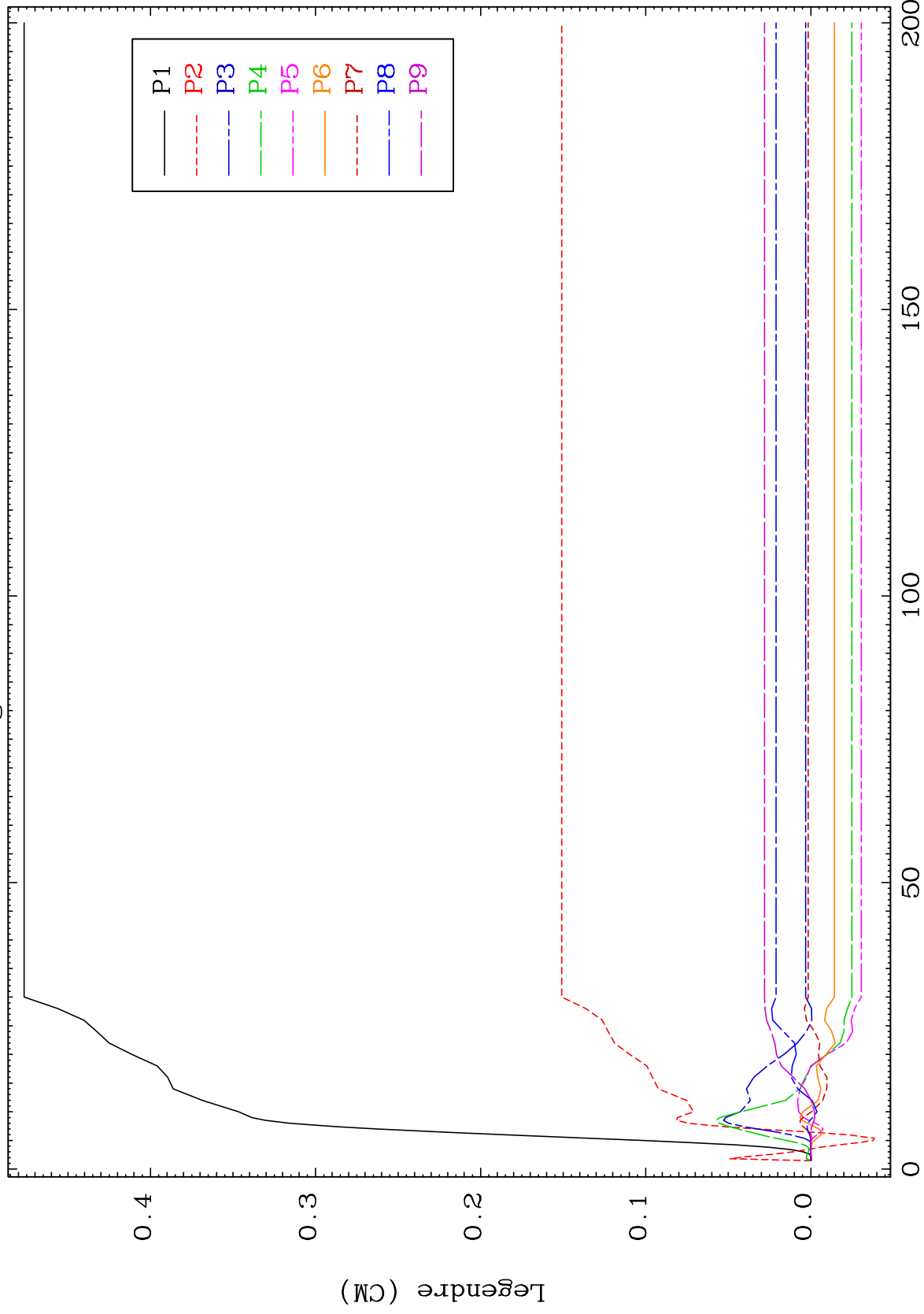
Incident Energy (MeV)

81-T1-199

MAT 8113

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

81-T1-199



52

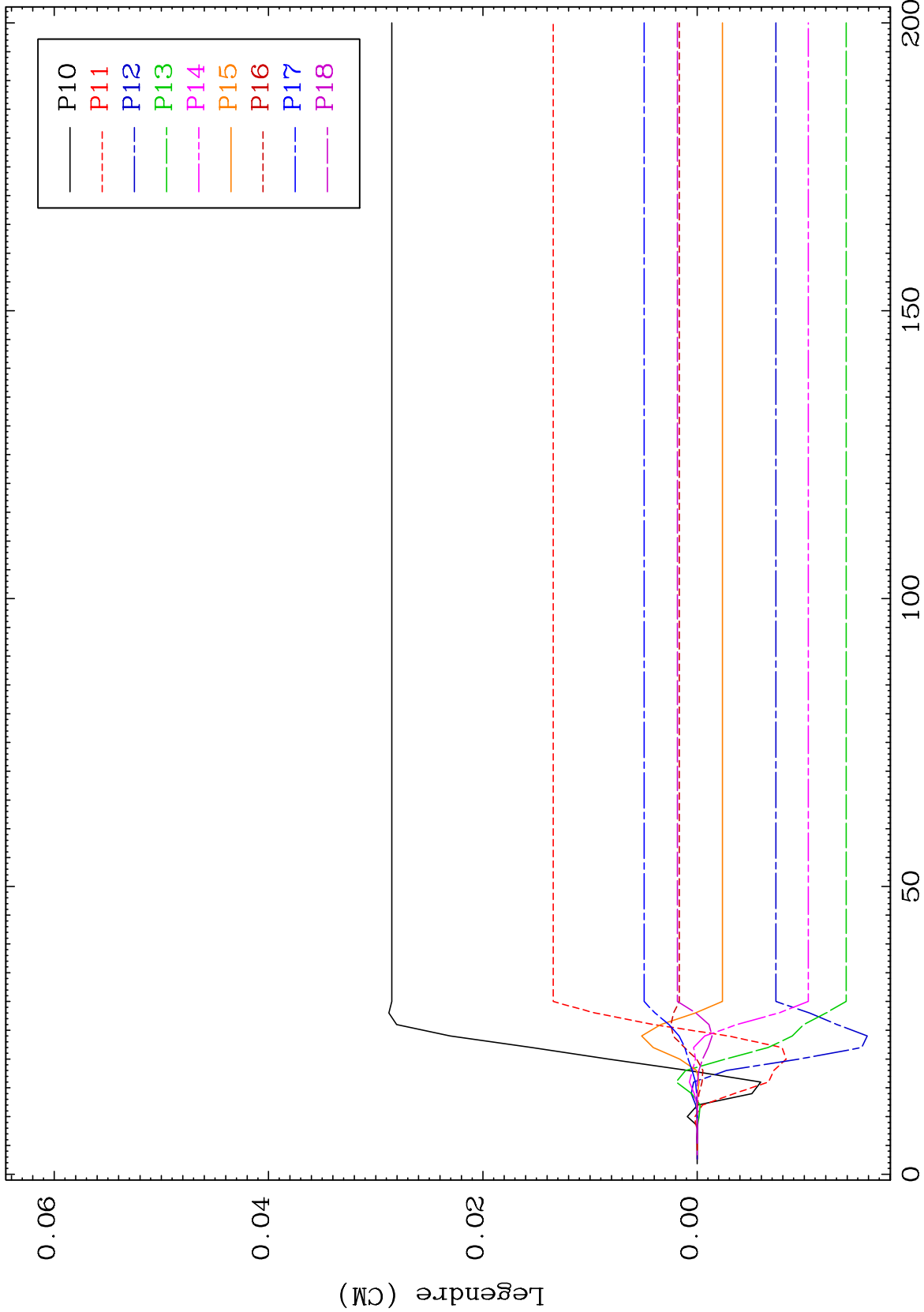
Incident Energy (MeV)

81-T1-199

MAT 81113

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

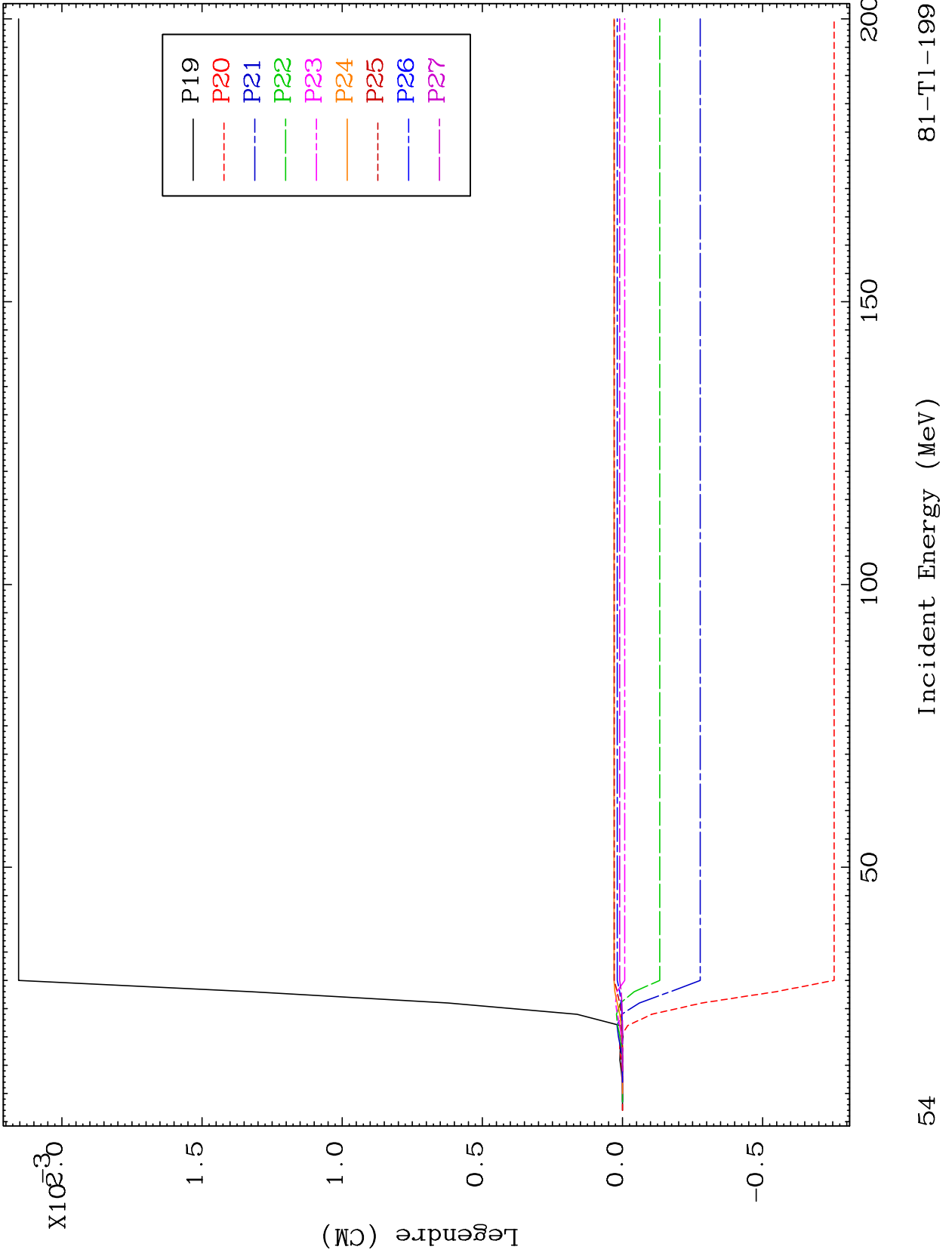
81-T1-199



53

Incident Energy (MeV)

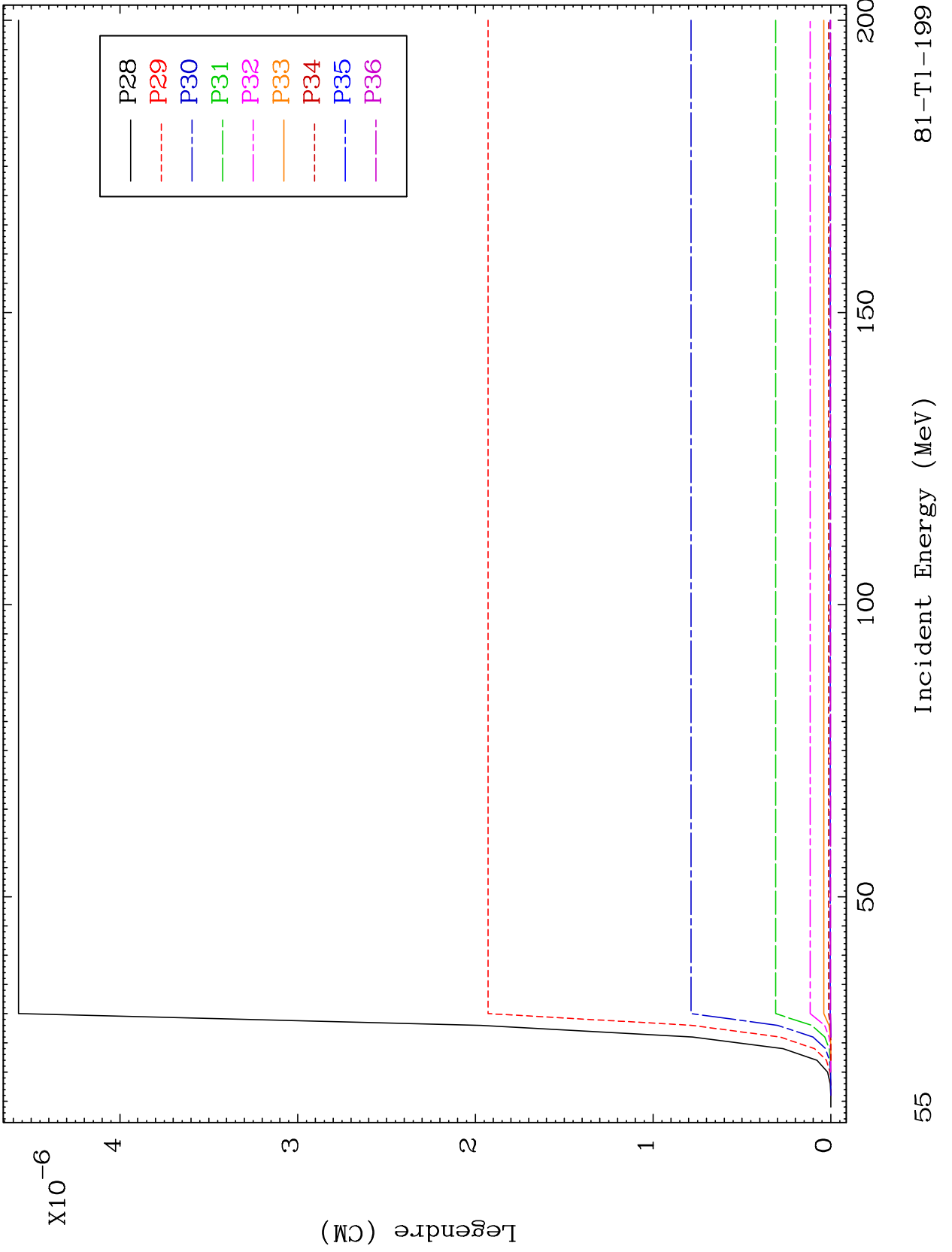
81-T1-199



MAT 8113

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

81-Tl-199



81-Tl-199

Incident Energy (MeV)

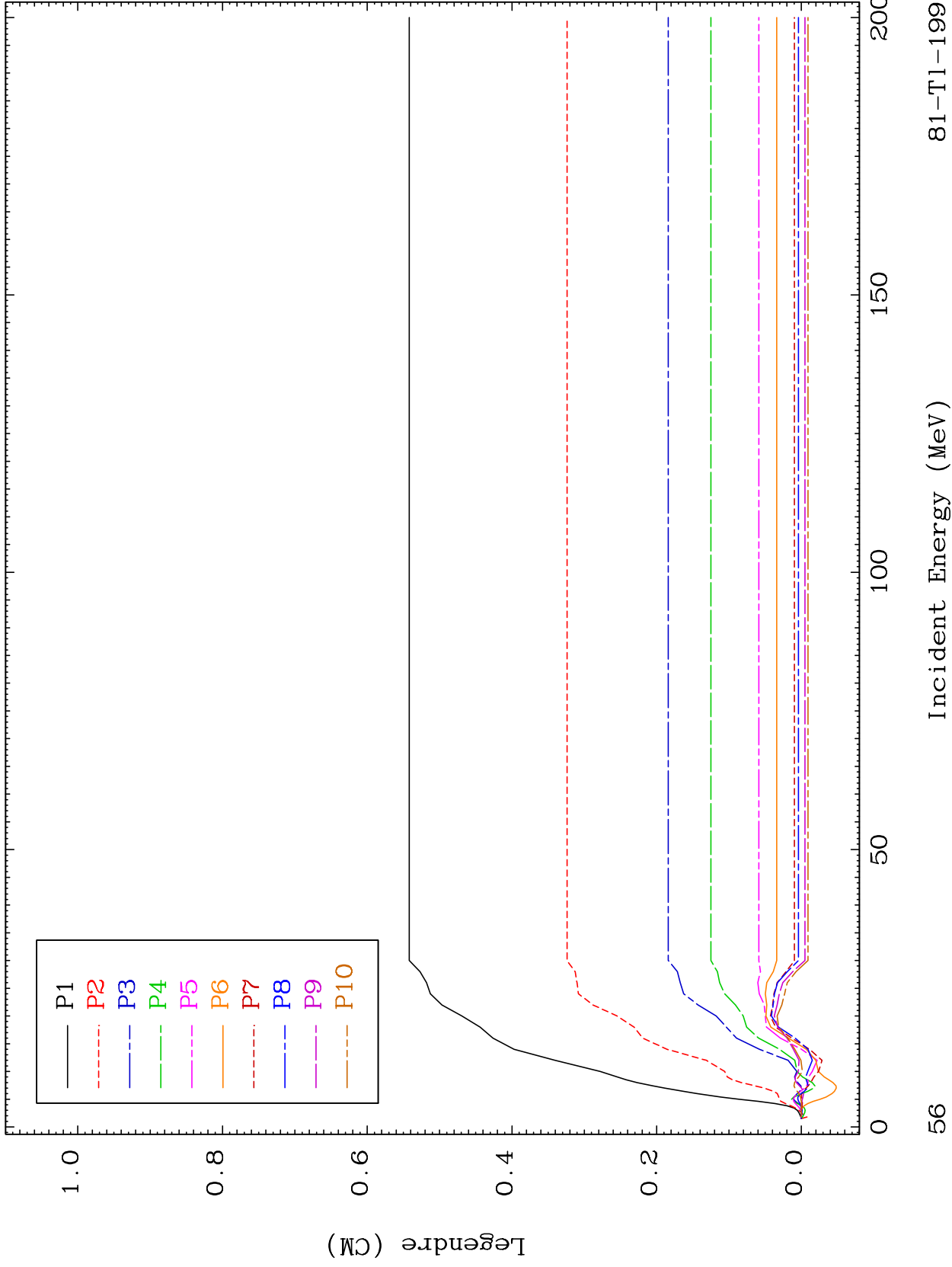
55



MAT 81113

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

81-T1-199



56

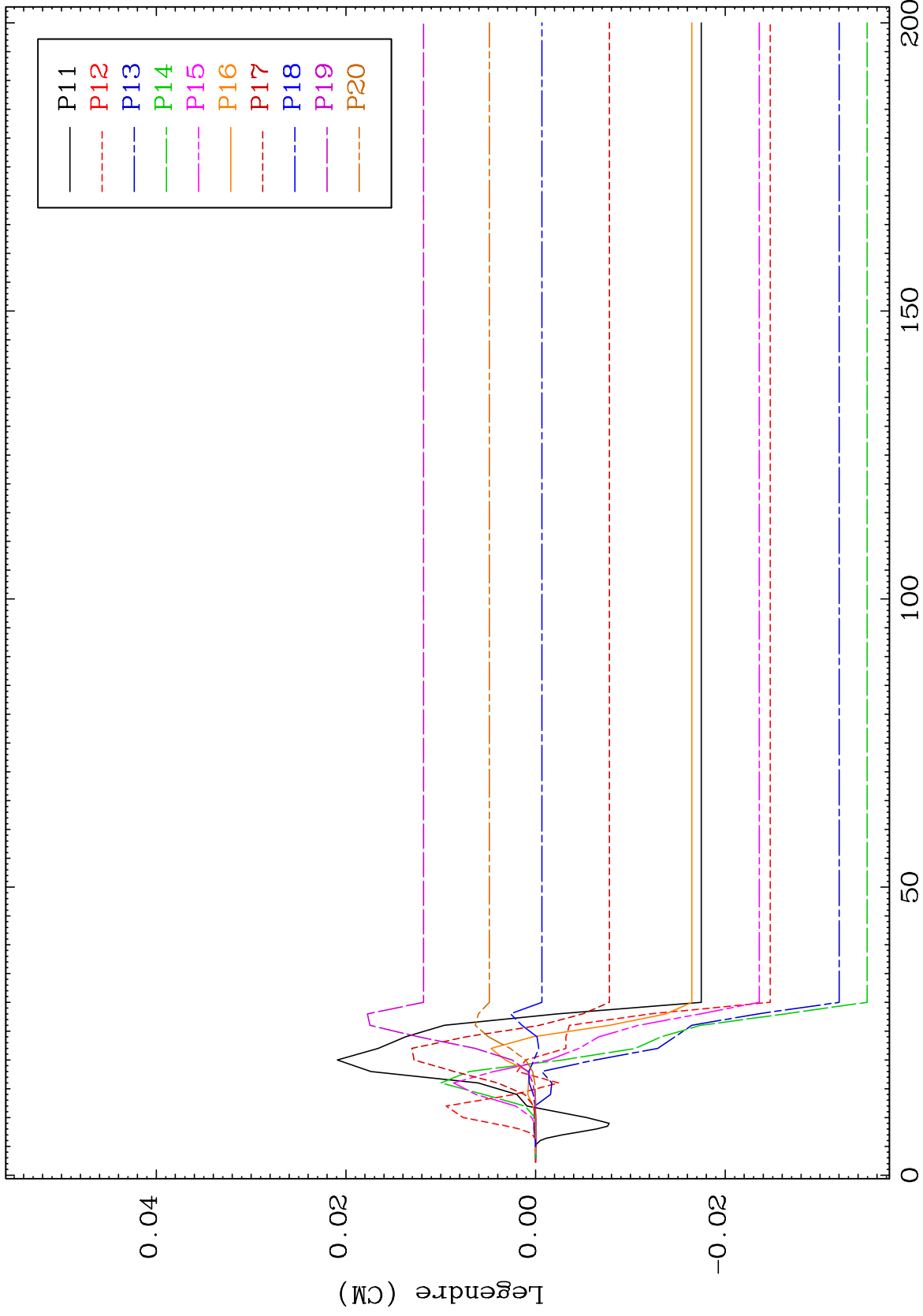
Incident Energy (MeV)

81-T1-199

MAT 81113

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

81-T1-199



57

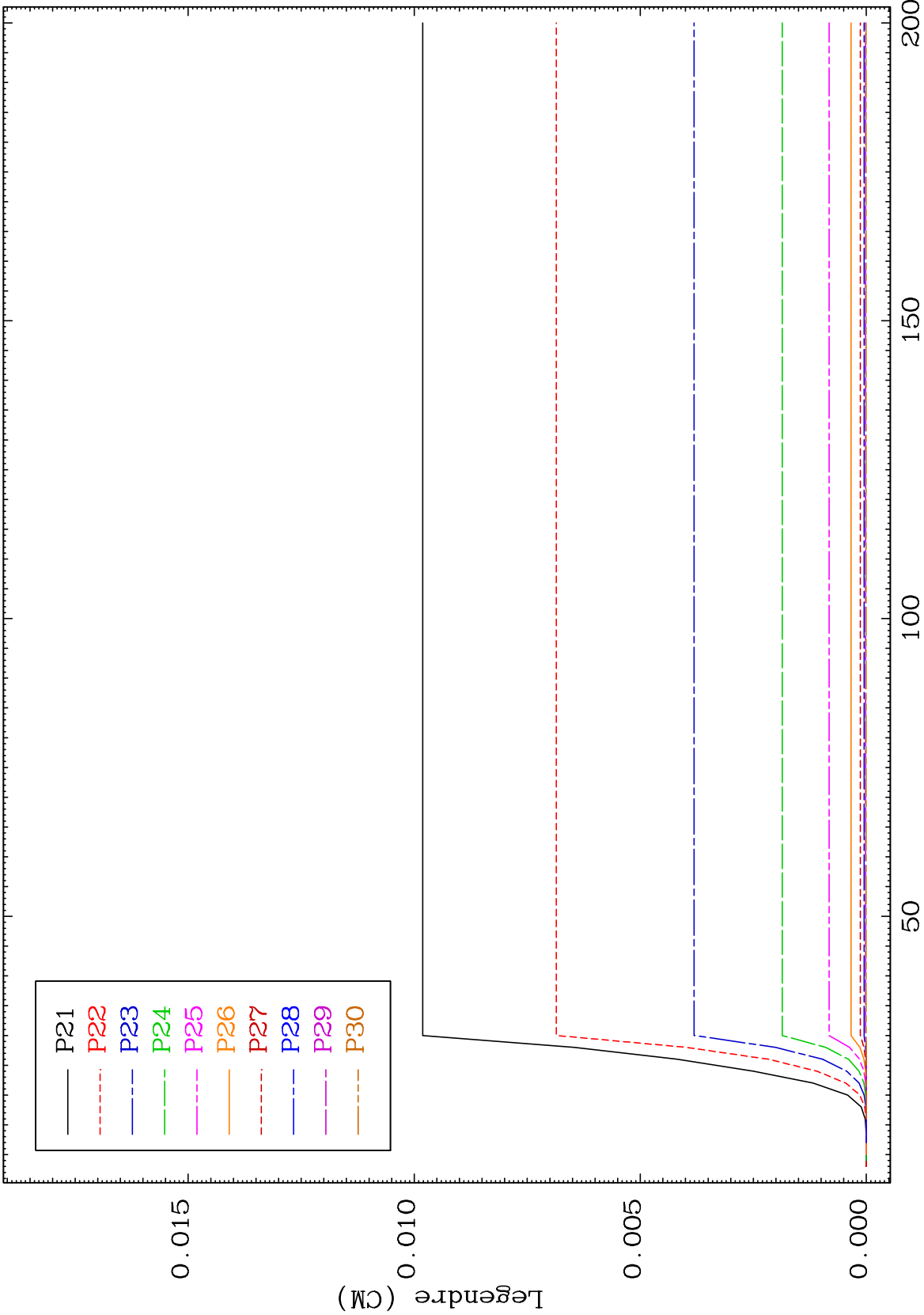
Incident Energy (MeV)

81-T1-199

MAT 8113

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

81-Tl-199



58

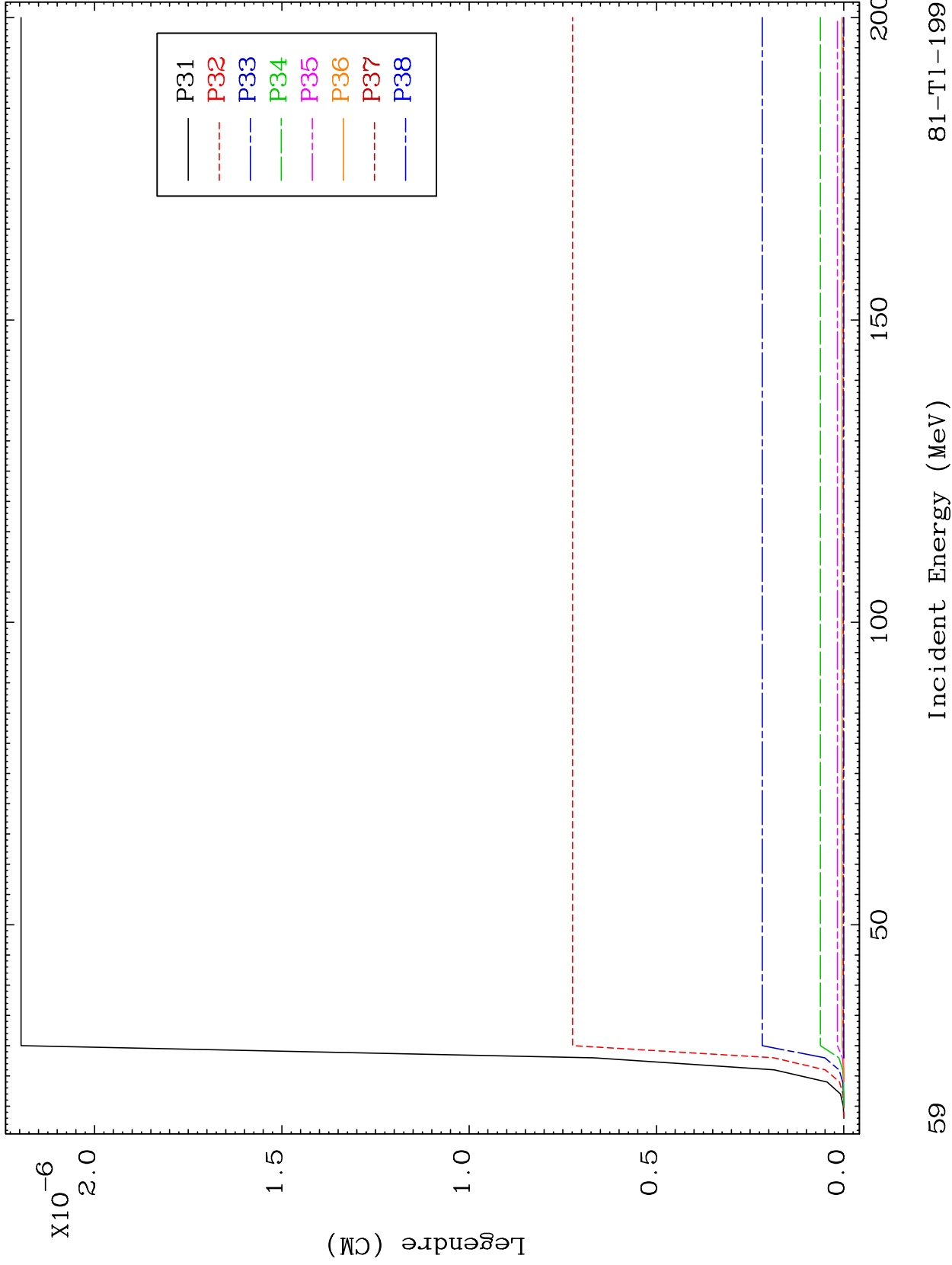
Incident Energy (MeV)

81-Tl-199

MAT 8113

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

81-T1-199



59

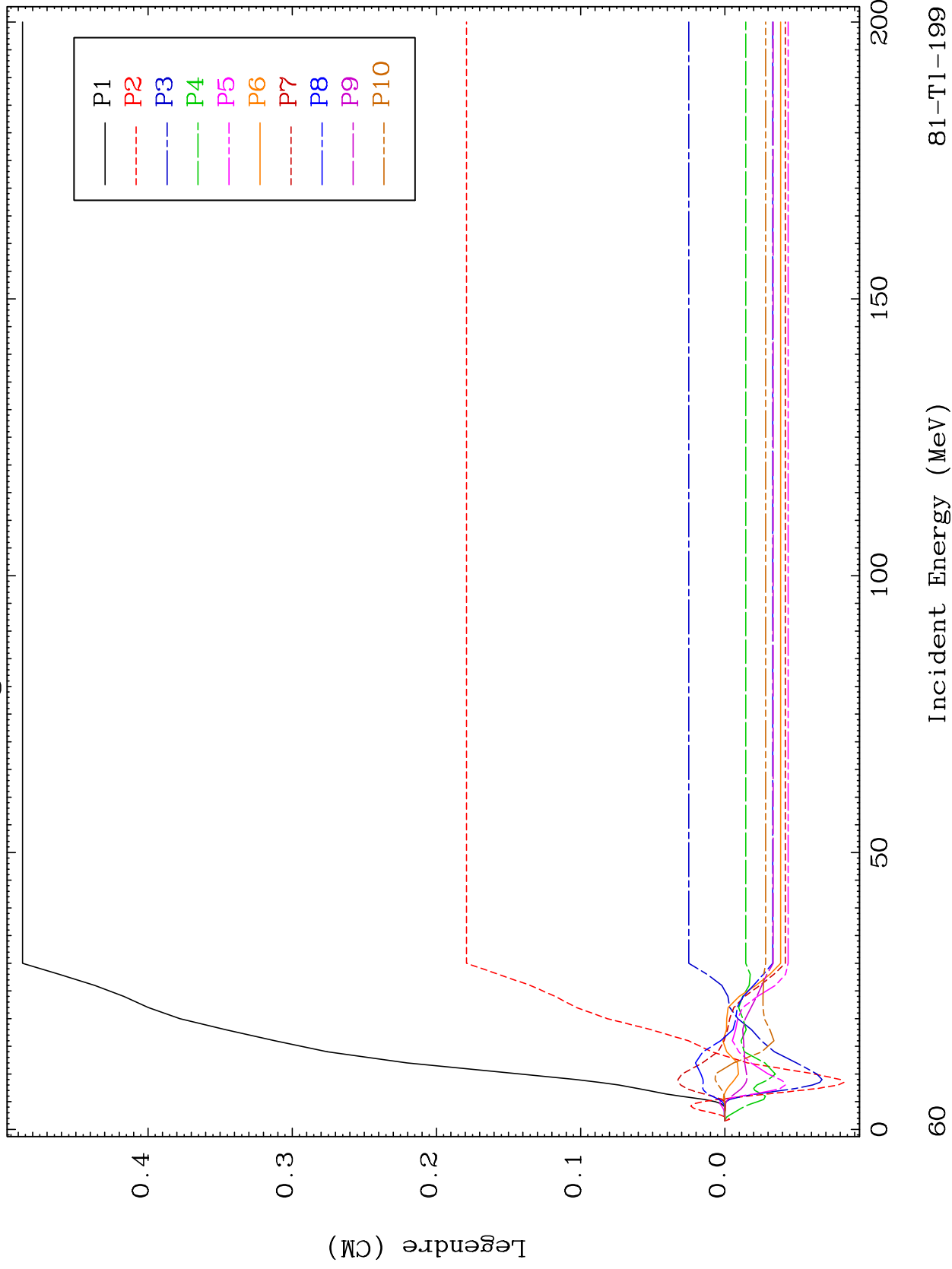
Incident Energy (MeV)

81-T1-199

MAT 8113

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

81-T1-199



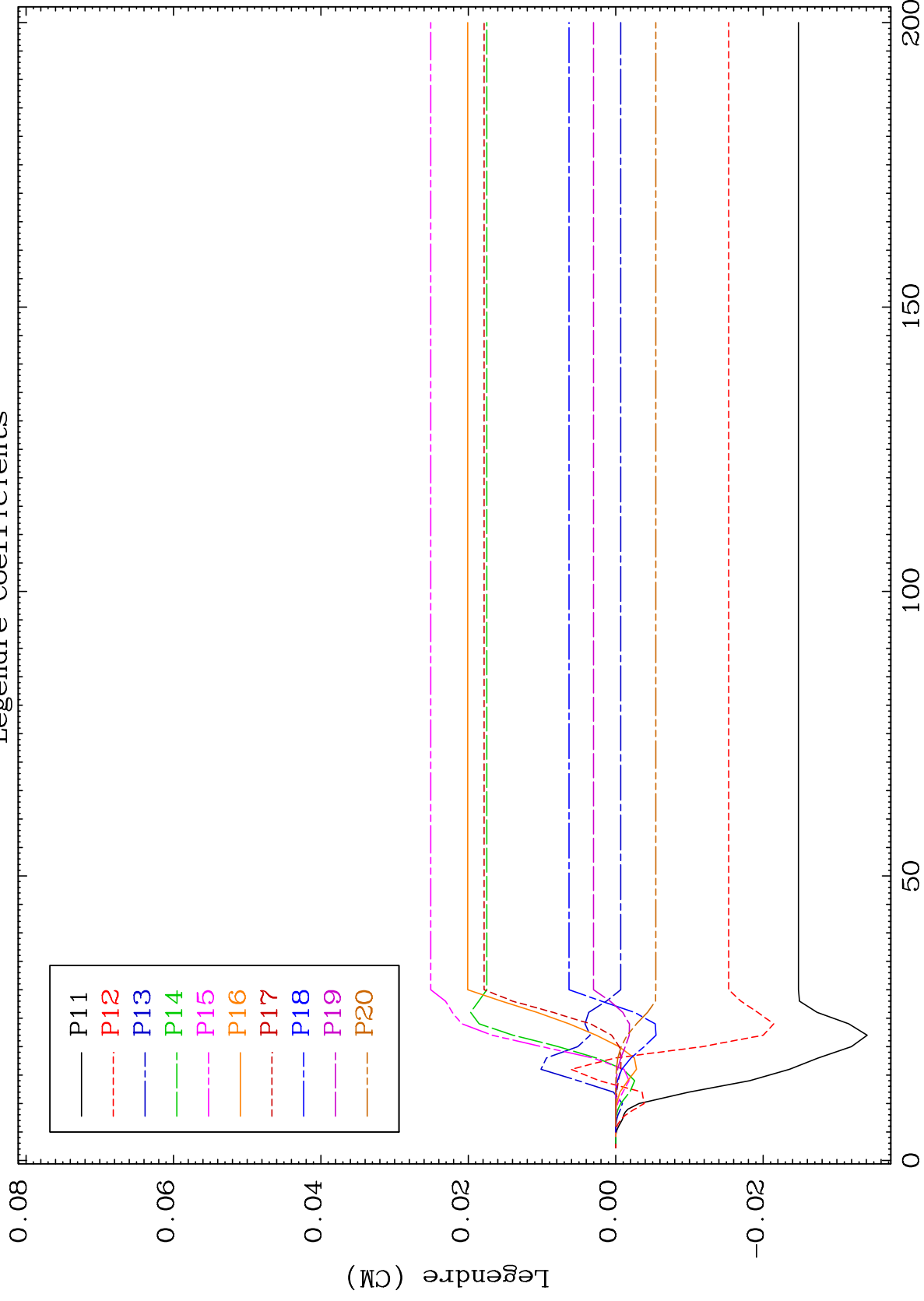
81-T1-199

Incident Energy (MeV)

MAT 81113

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

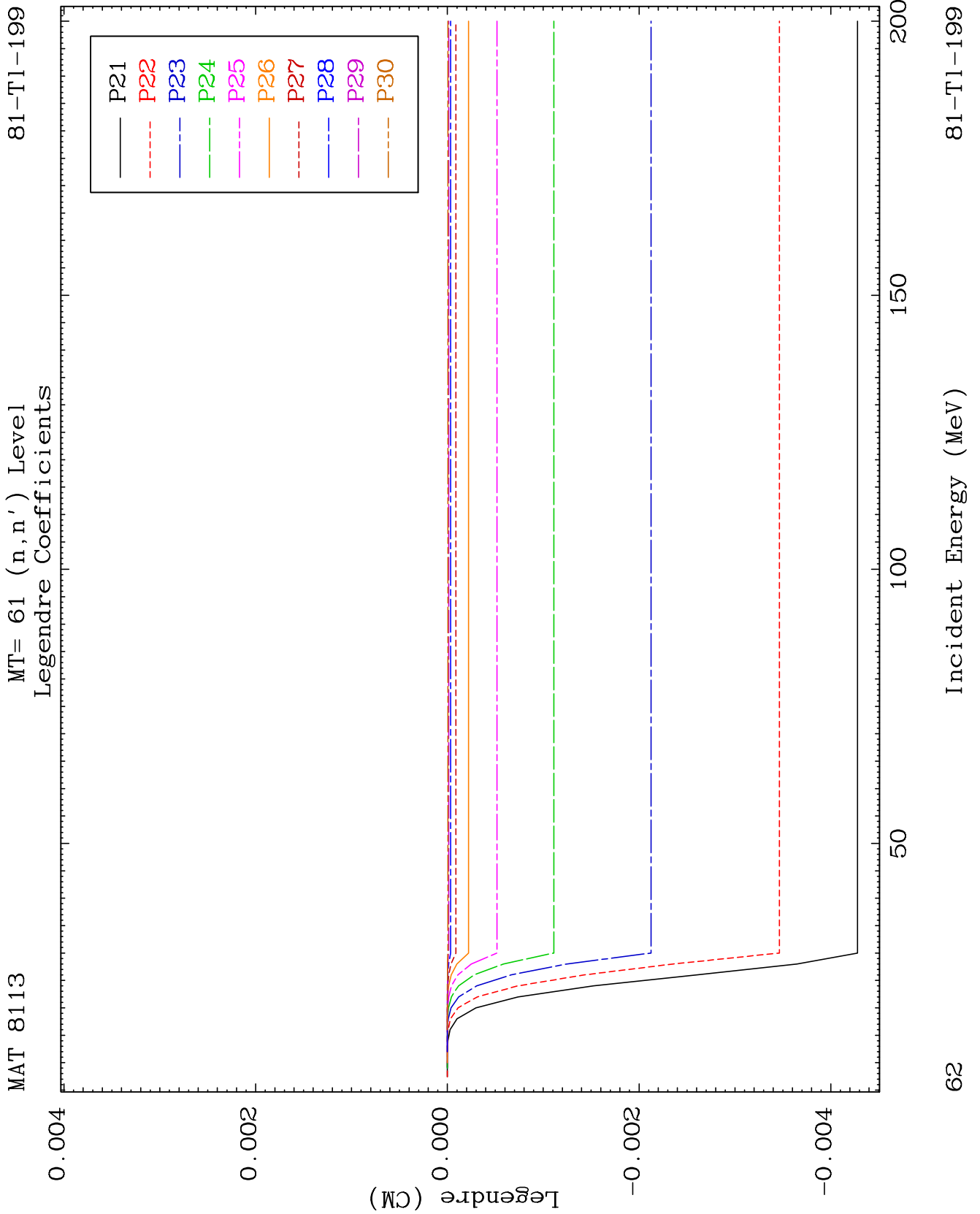
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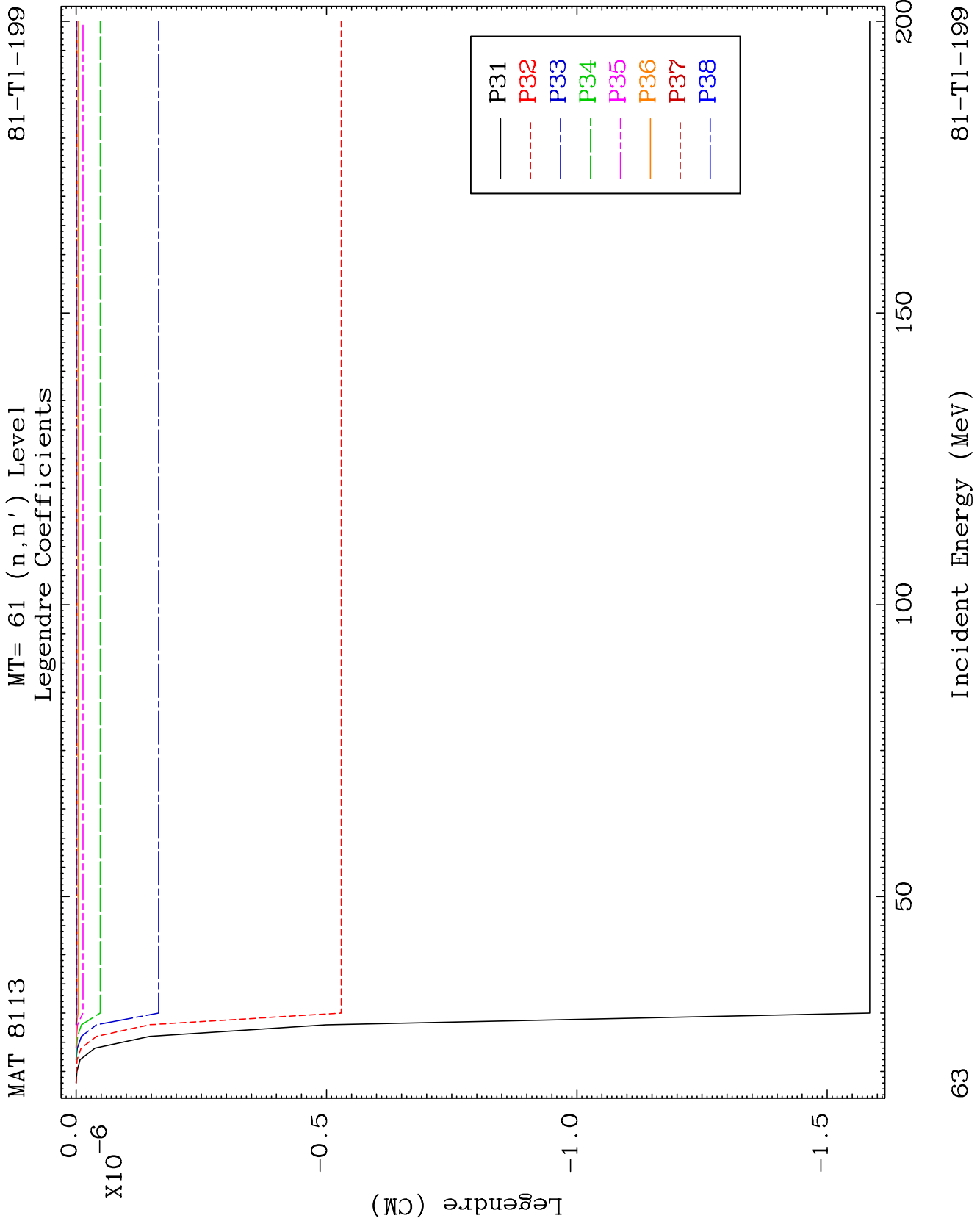


61

Incident Energy (MeV)

81-T1-199



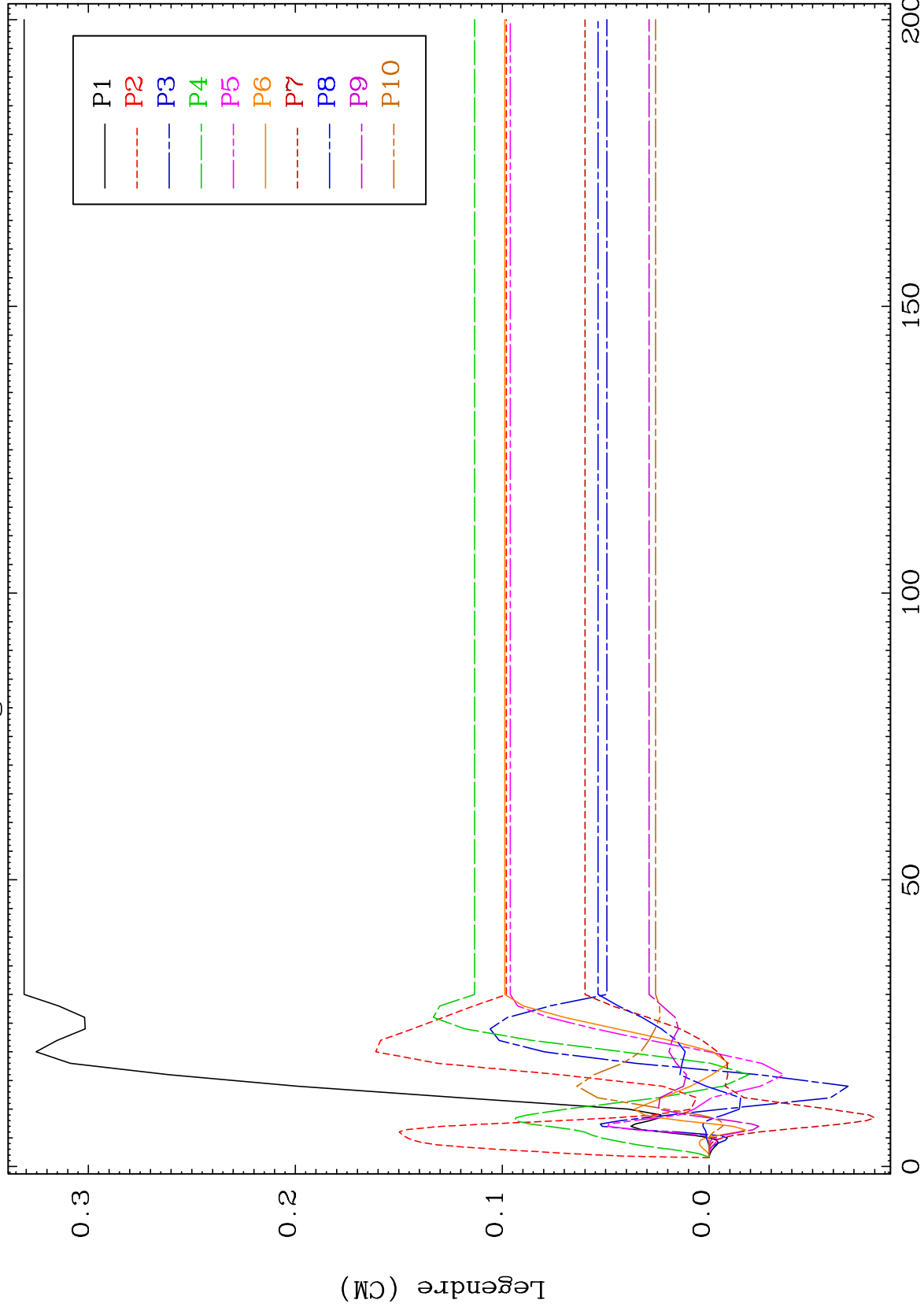




MAT 8113

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

81-T1-199



81-T1-199

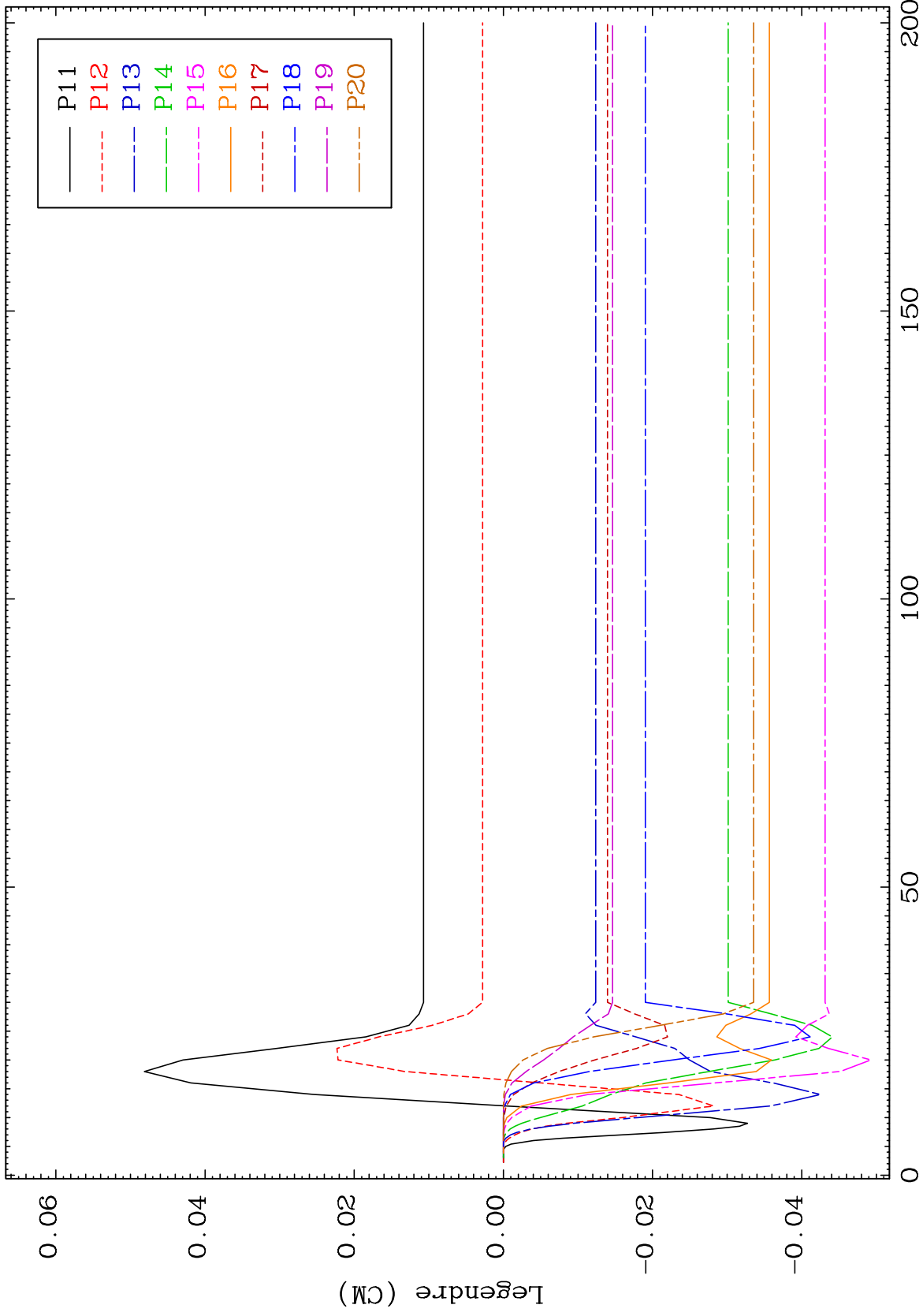
Incident Energy (MeV)

64

MAT 81113

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

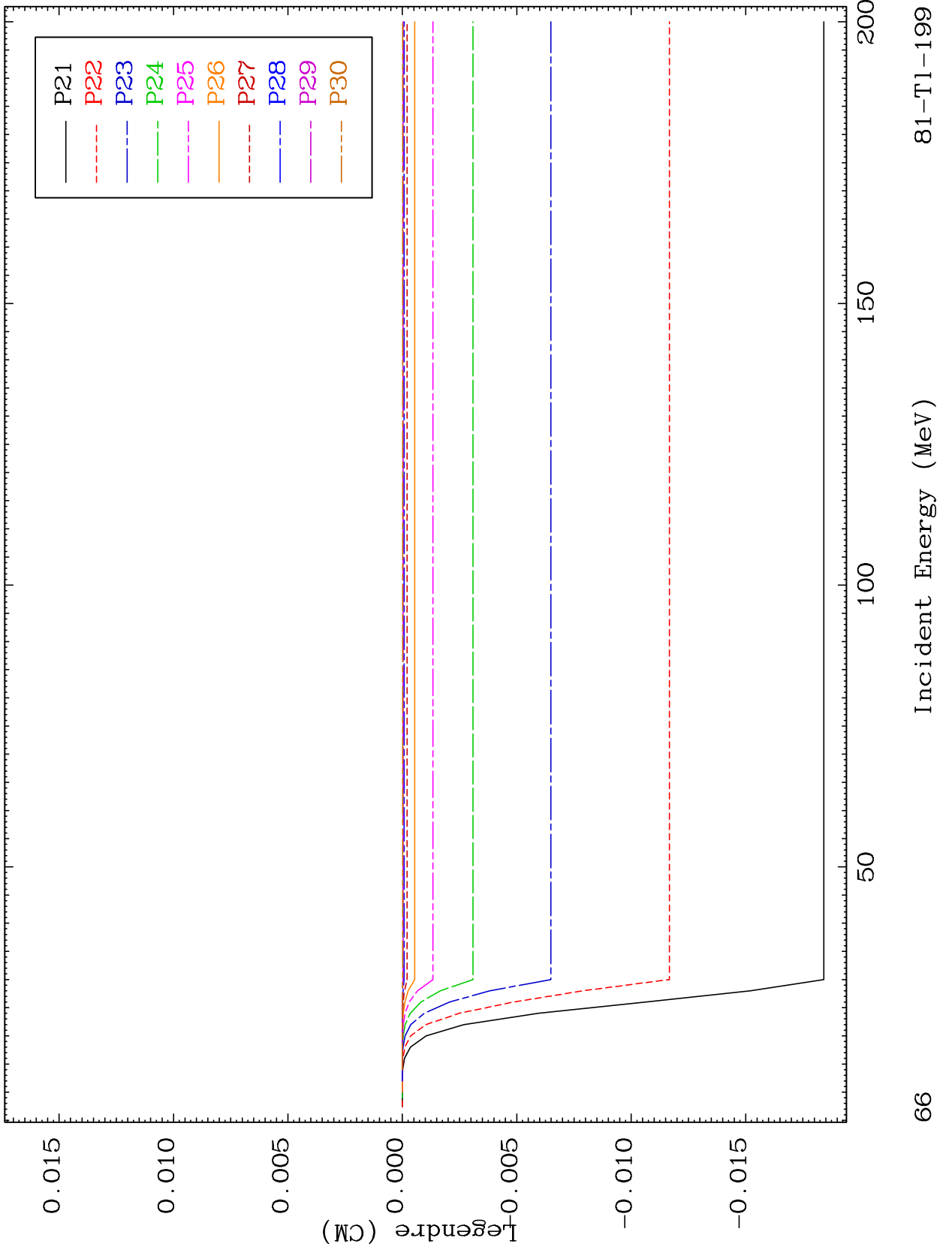
81-T1-199

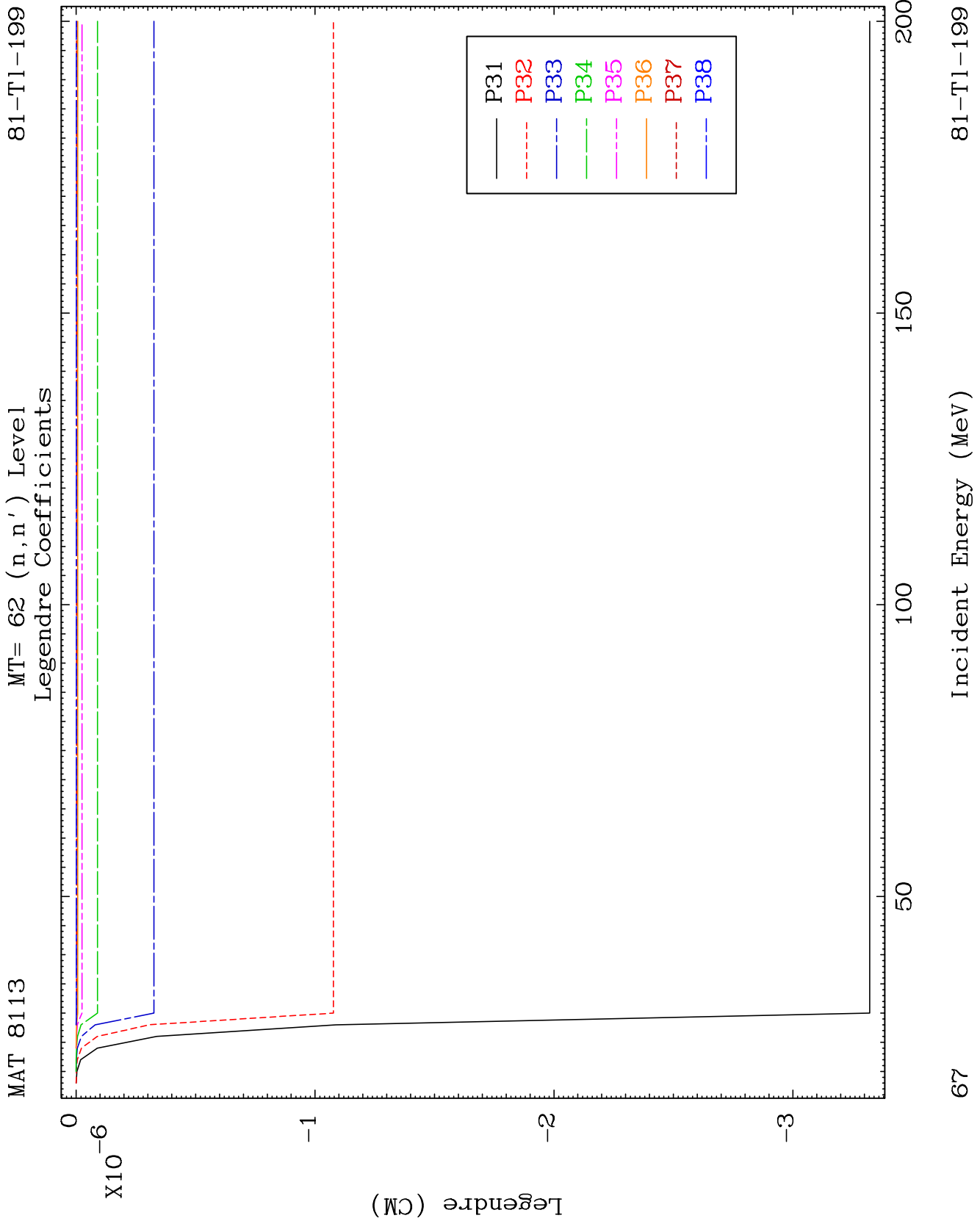


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Incident Energy (MeV)

81-T1-199

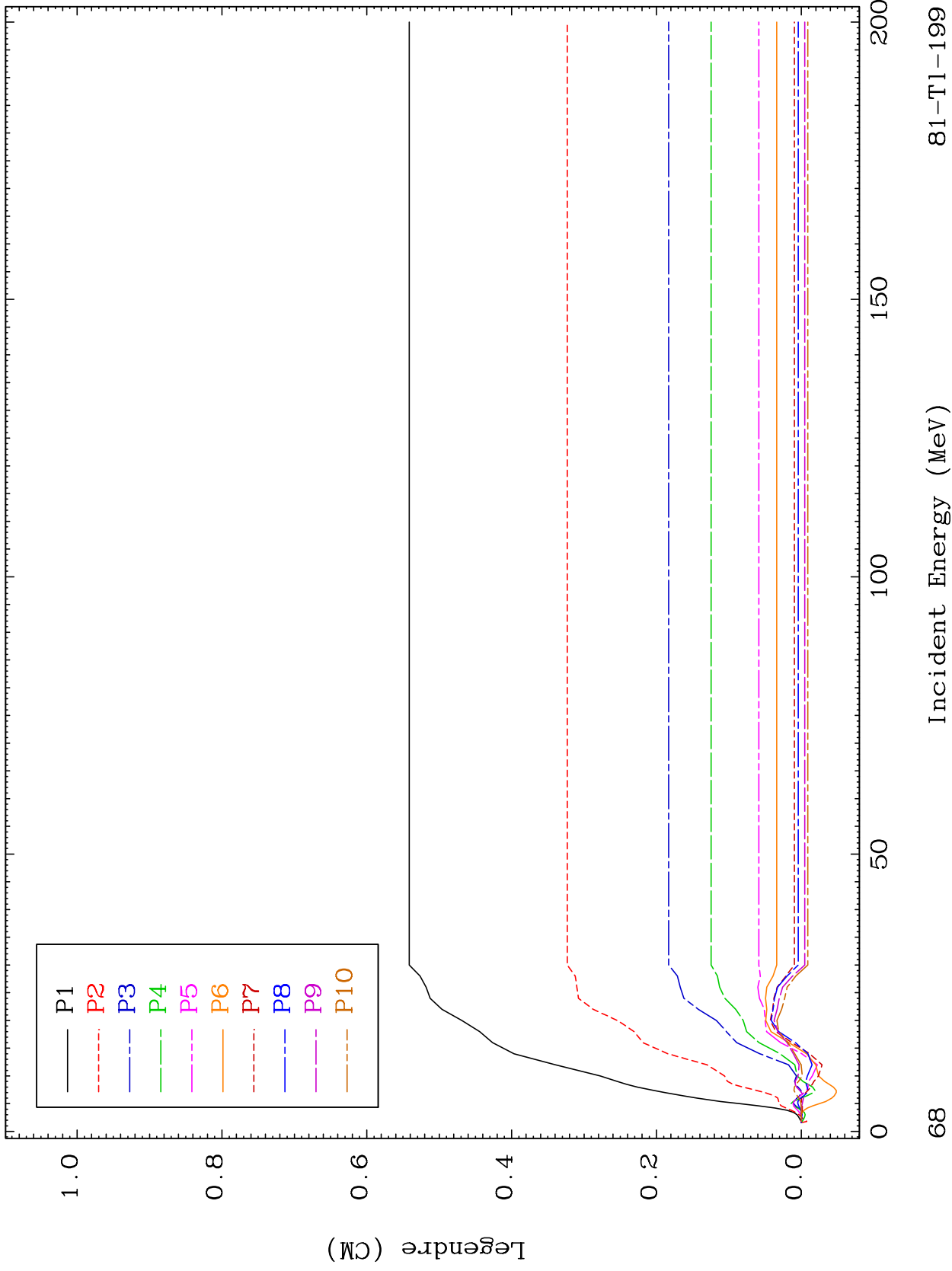




MAT 81113

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

81-T1-199



68

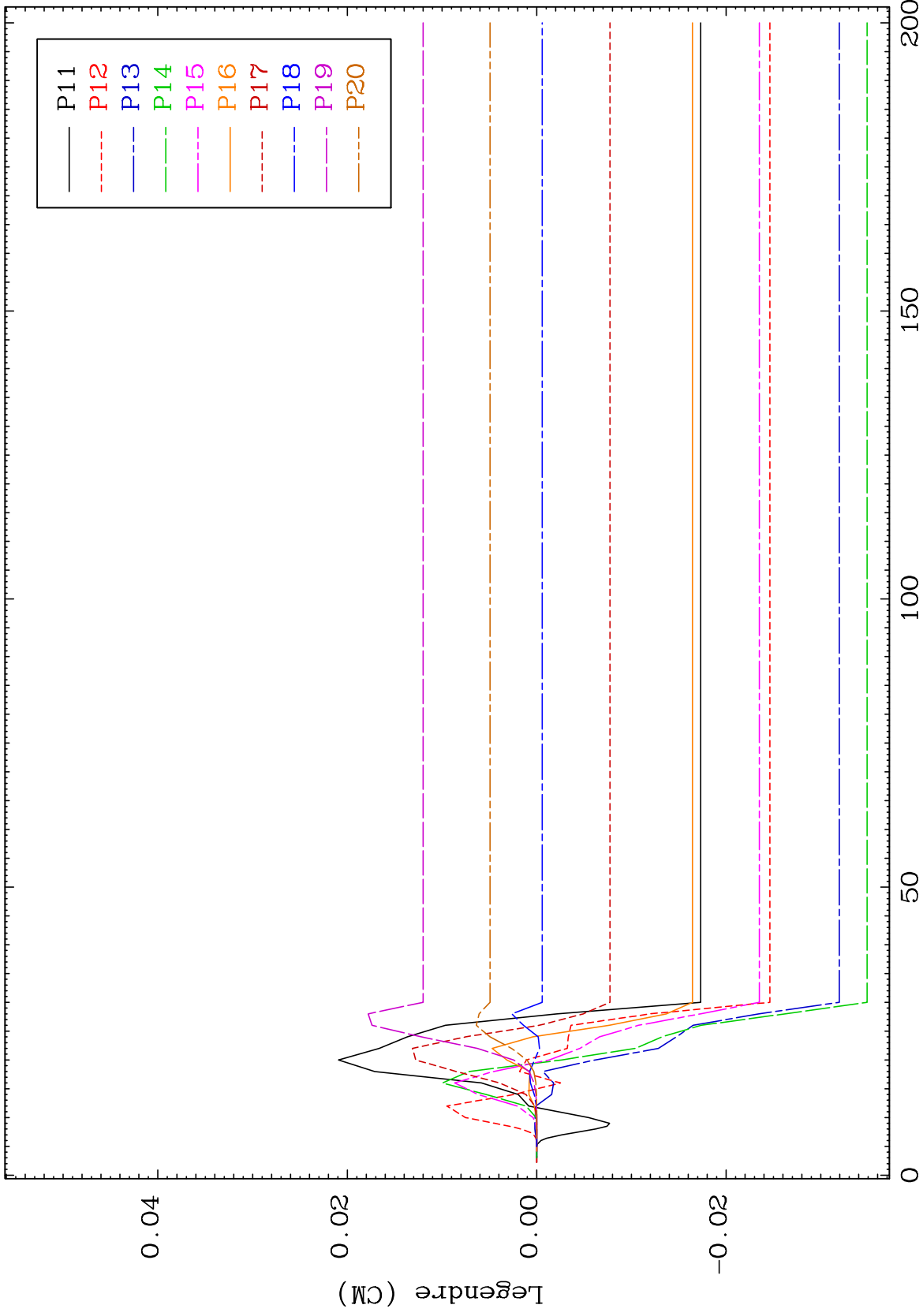
Incident Energy (MeV)

81-T1-199

MAT 81113

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

81-T1-199



69

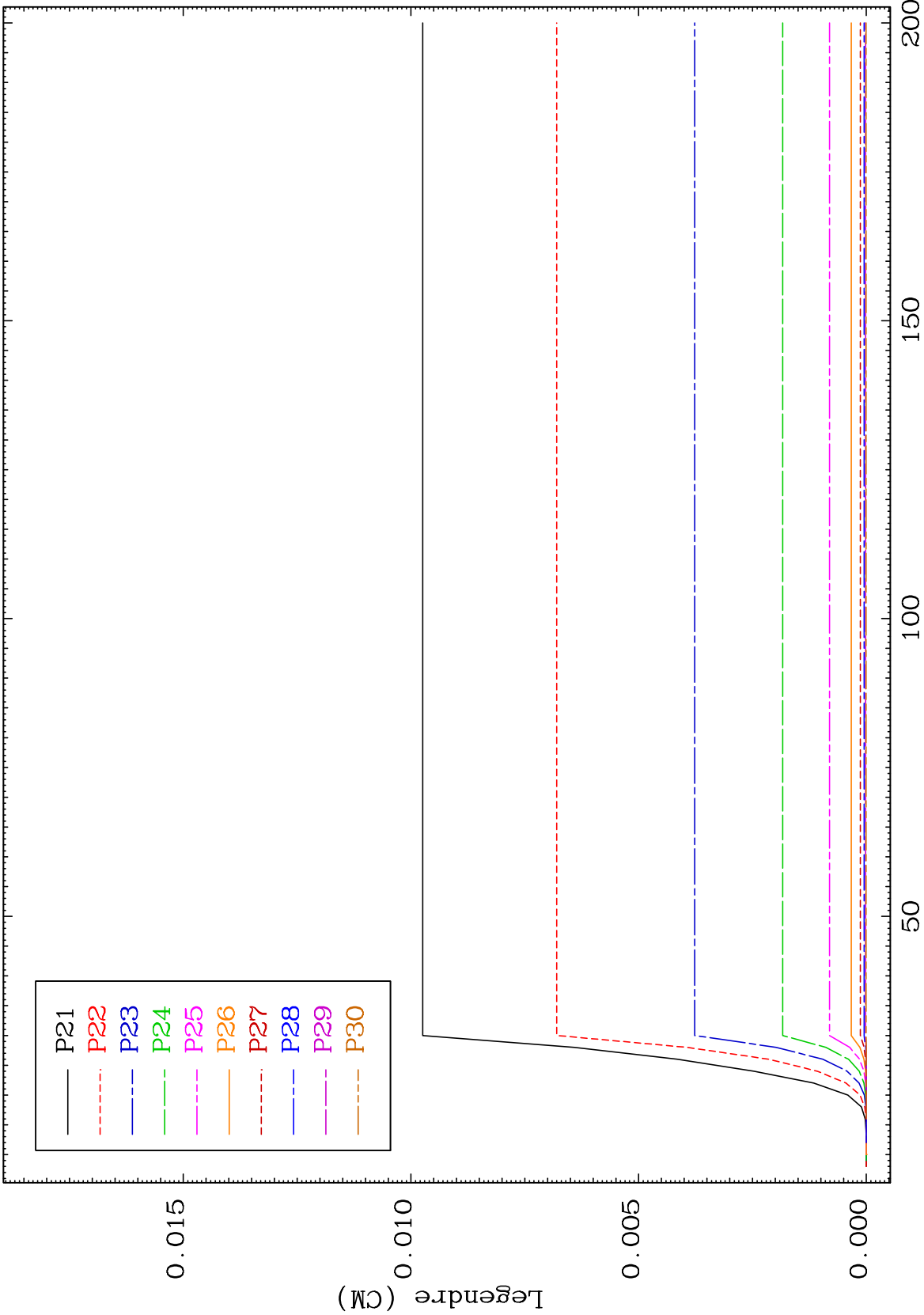
Incident Energy (MeV)

81-T1-199

MAT 81113

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

81-T1-199



70

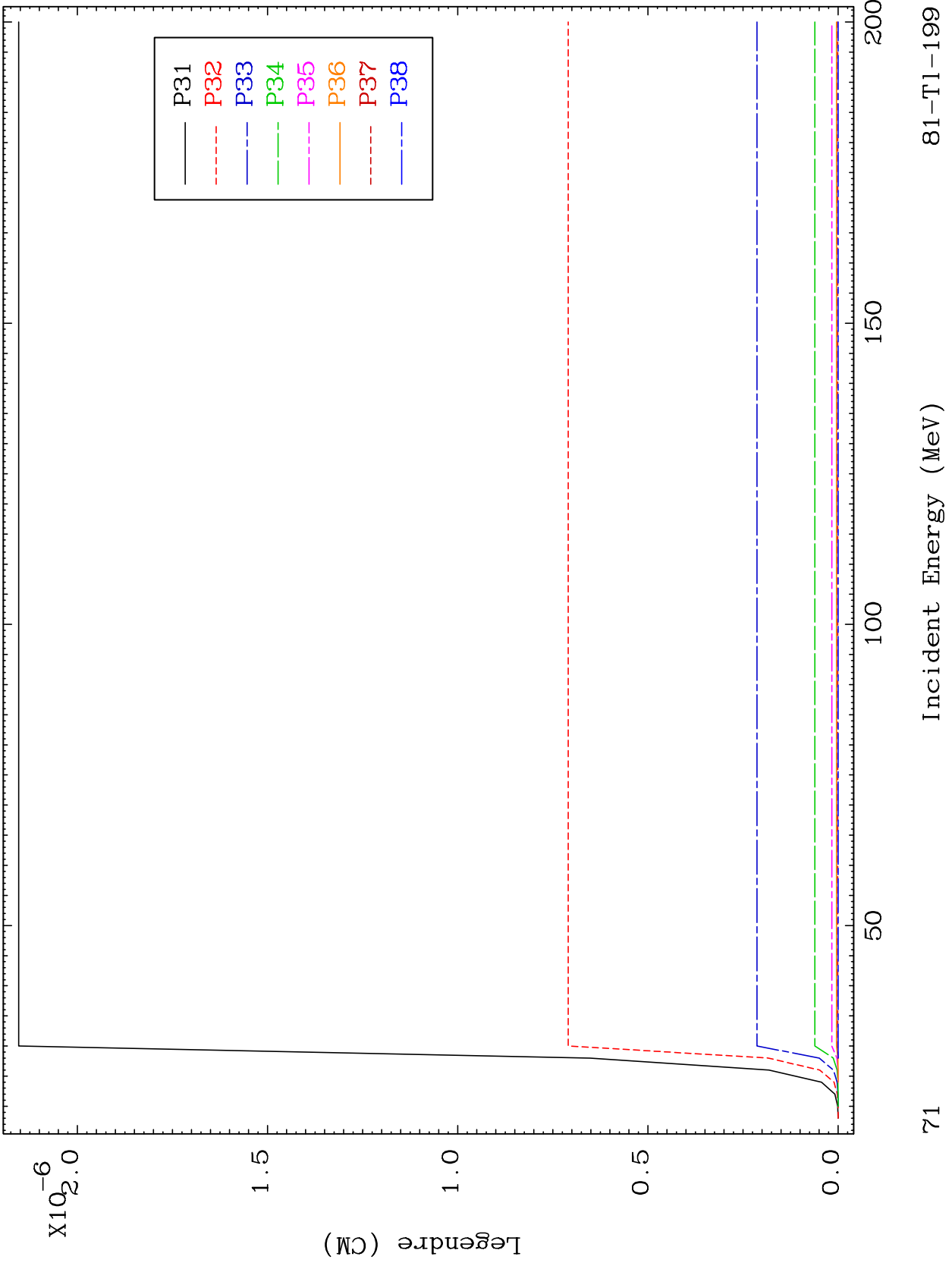
Incident Energy (MeV)

81-T1-199

MAT 8113

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

81-T1-199



71

Incident Energy (MeV)

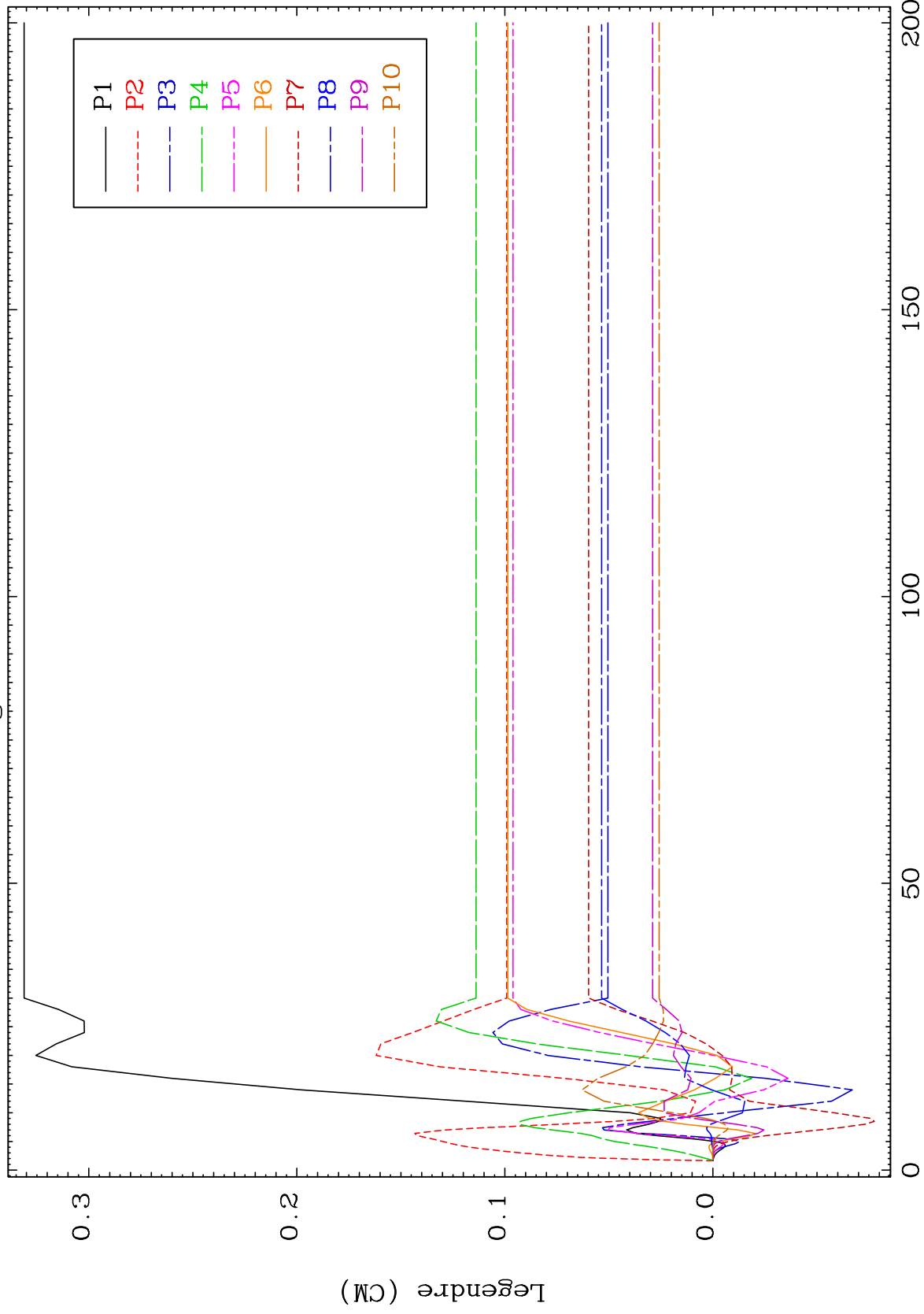
81-T1-199



MAT 81113

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

81-T1-199



72

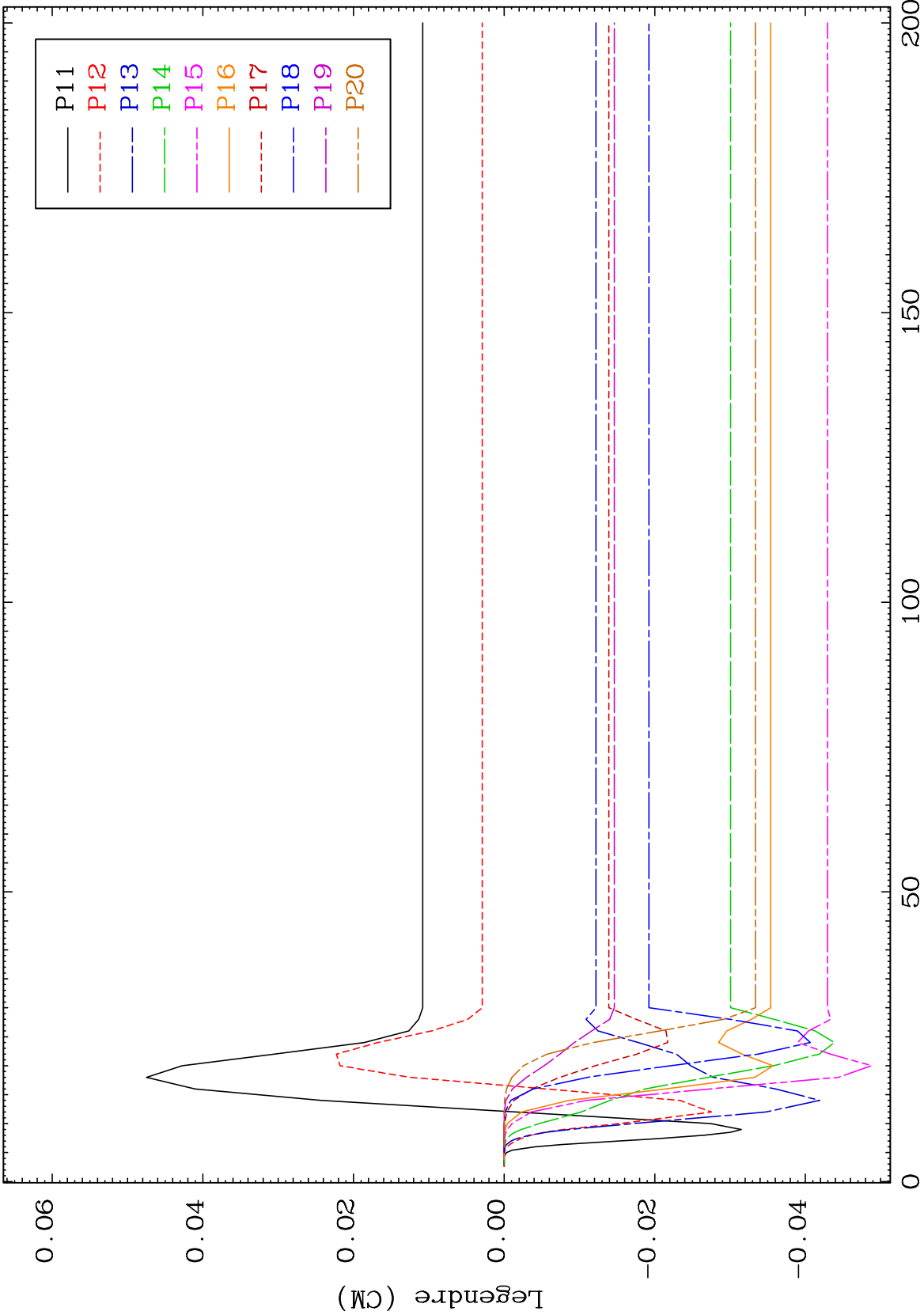
Incident Energy (MeV)

81-T1-199

MAT 81113

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

81-T1-199



73

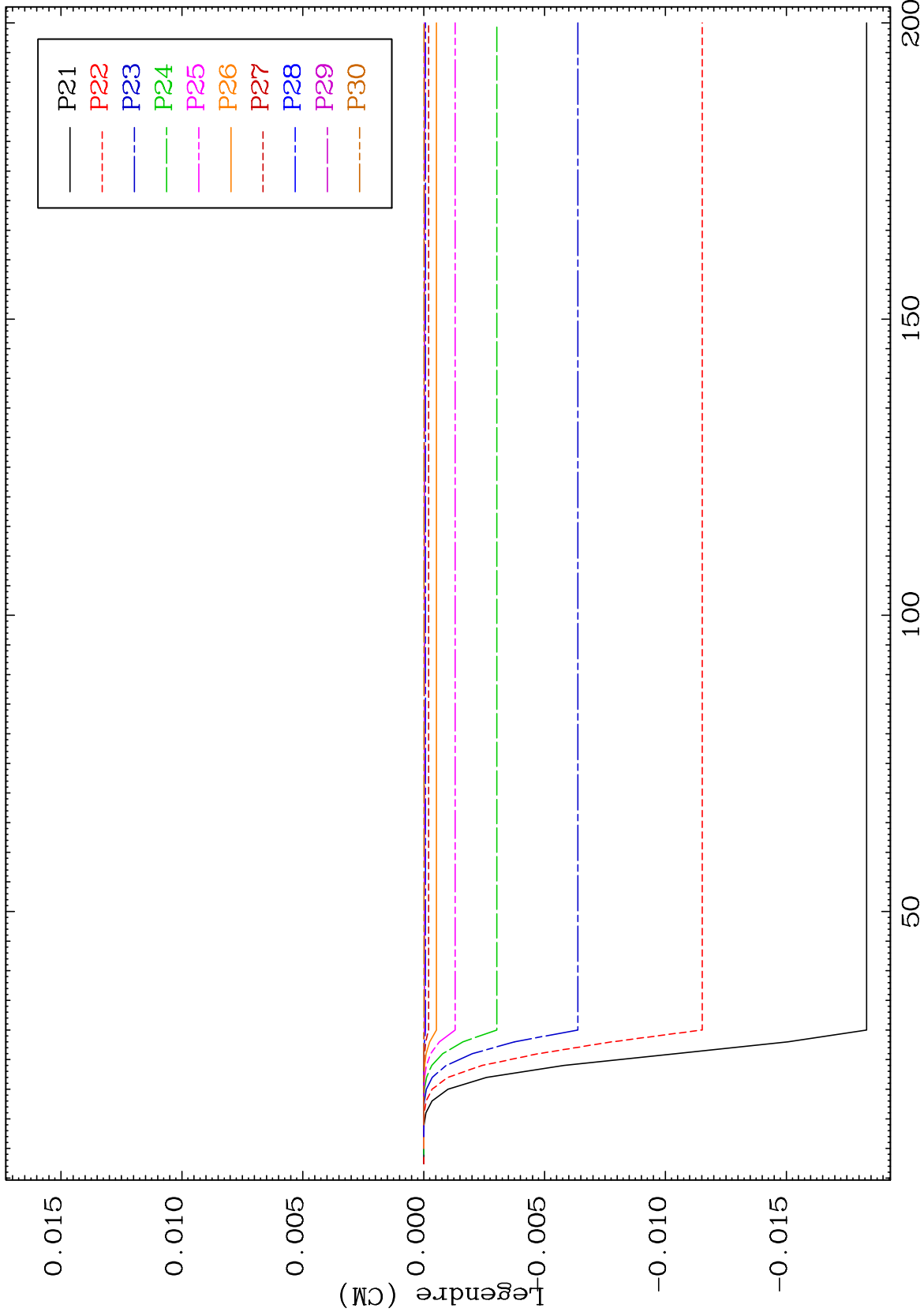
Incident Energy (MeV)

81-T1-199

MAT 81113

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

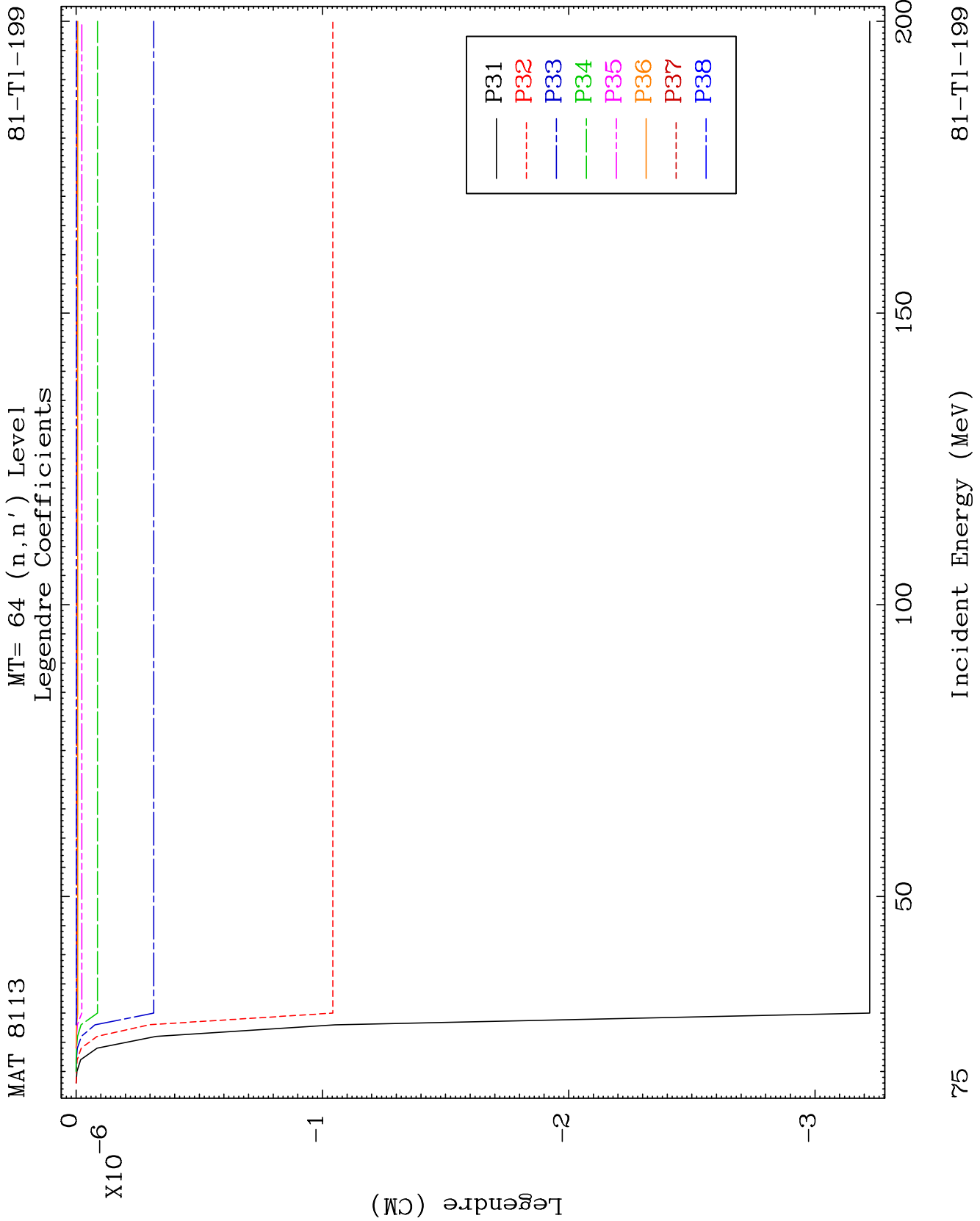
81-T1-199



74

Incident Energy (MeV)

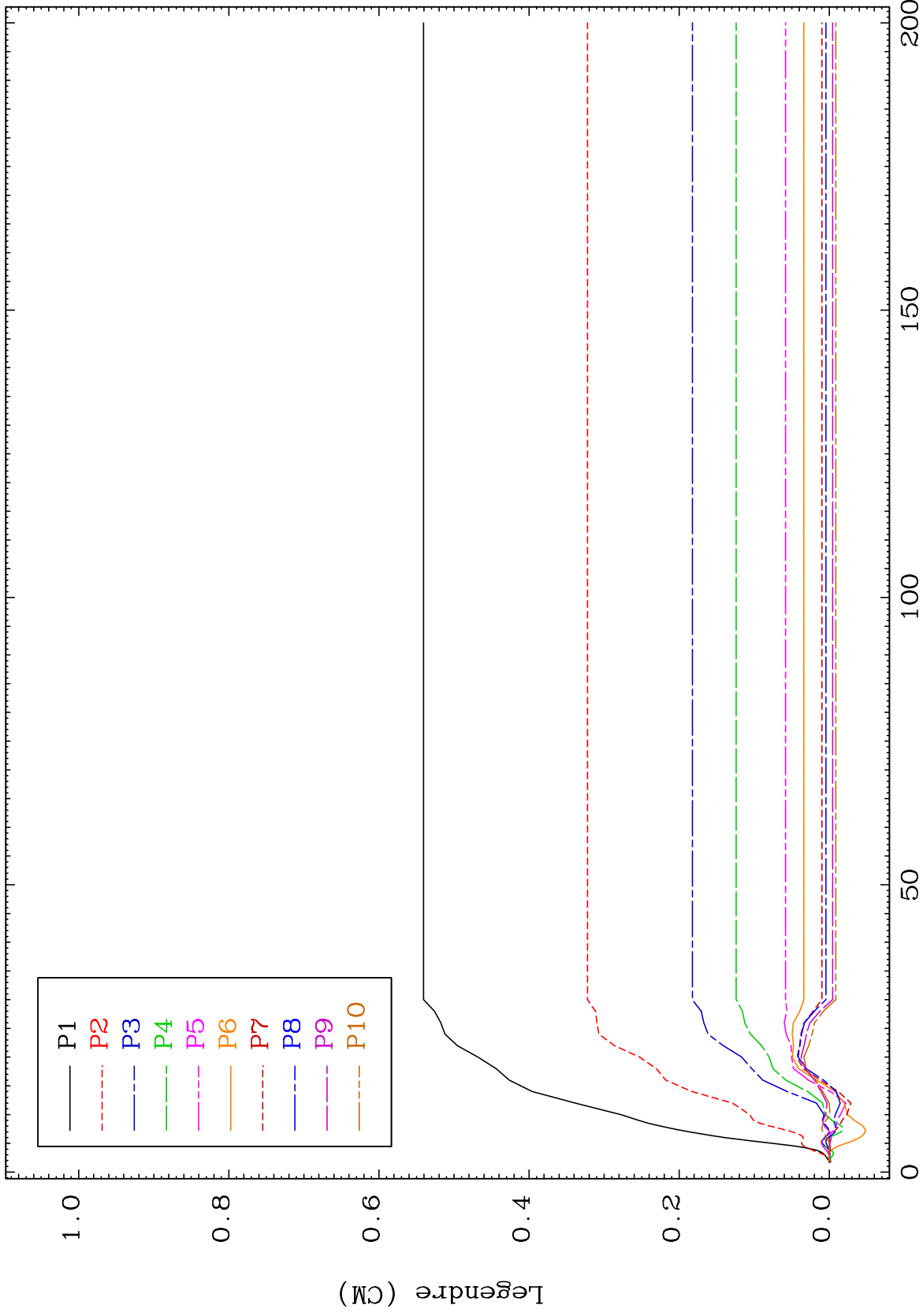
81-T1-199



MAT 81113

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

81-T1-199



76

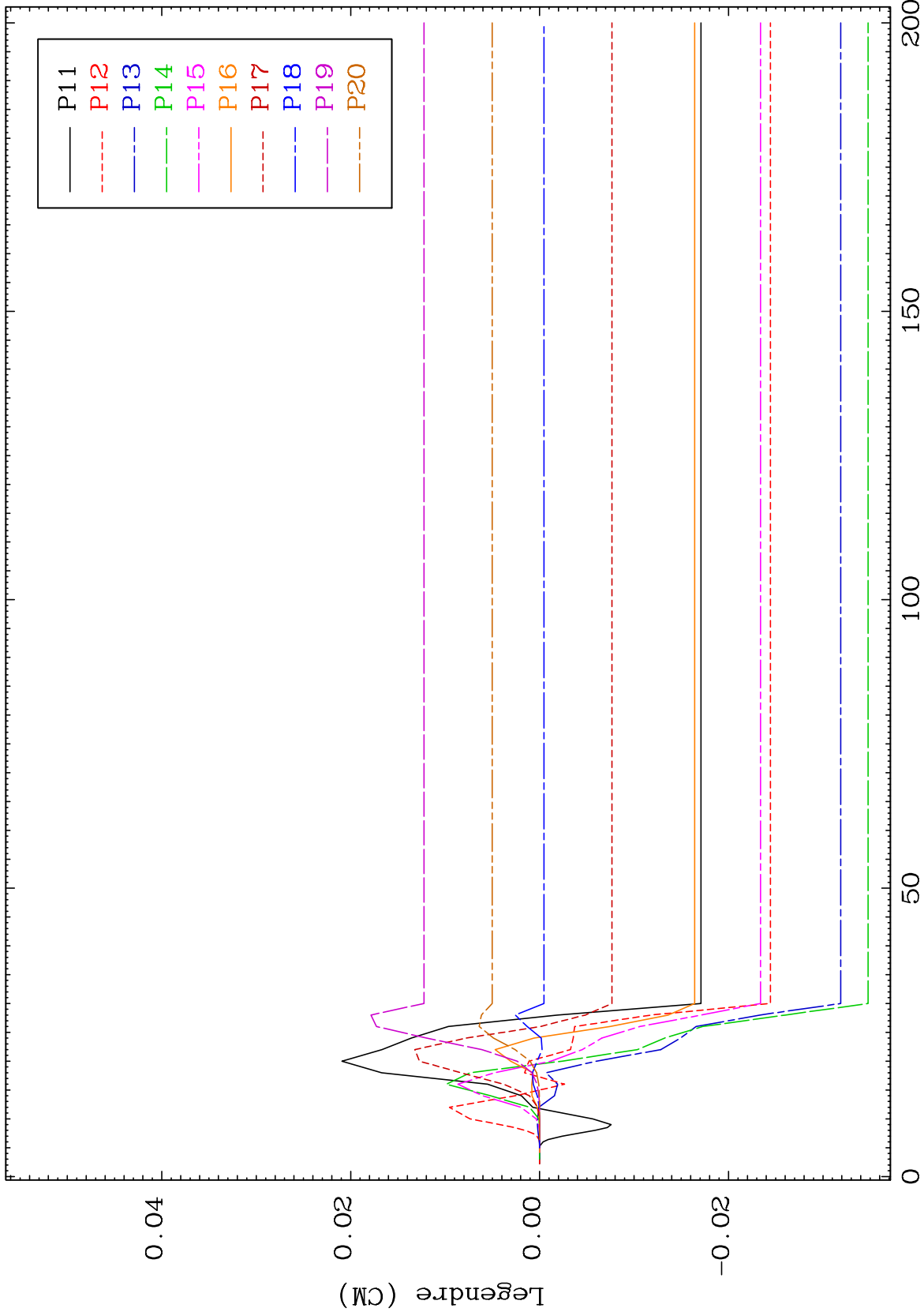
Incident Energy (MeV)

81-T1-199

MAT 81113

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

81-T1-199



77

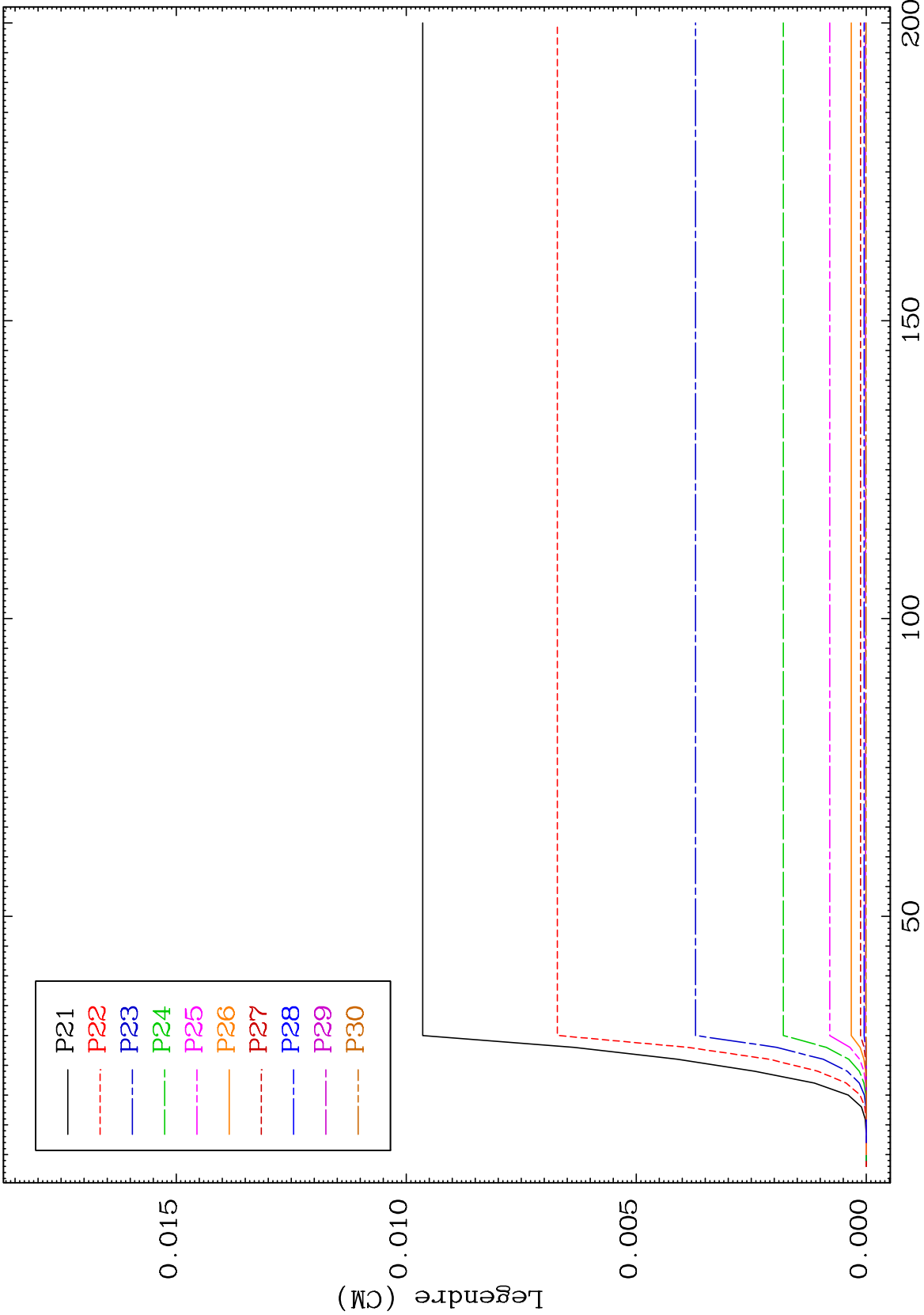
Incident Energy (MeV)

81-T1-199

MAT 81113

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

81-Tl-199



78

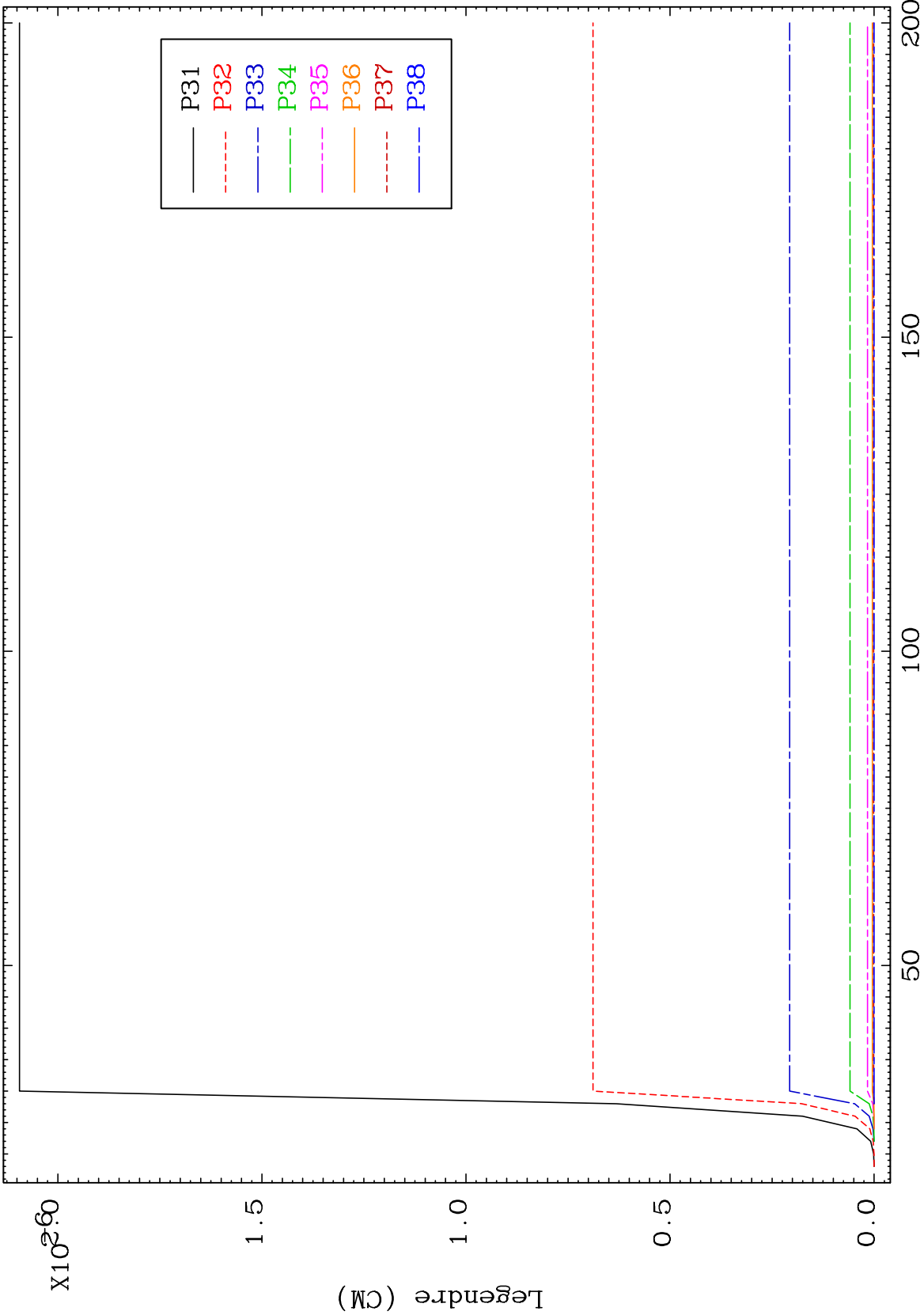
Incident Energy (MeV)

81-Tl-199

MAT 8113

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

81-T1-199



79

Incident Energy (MeV)

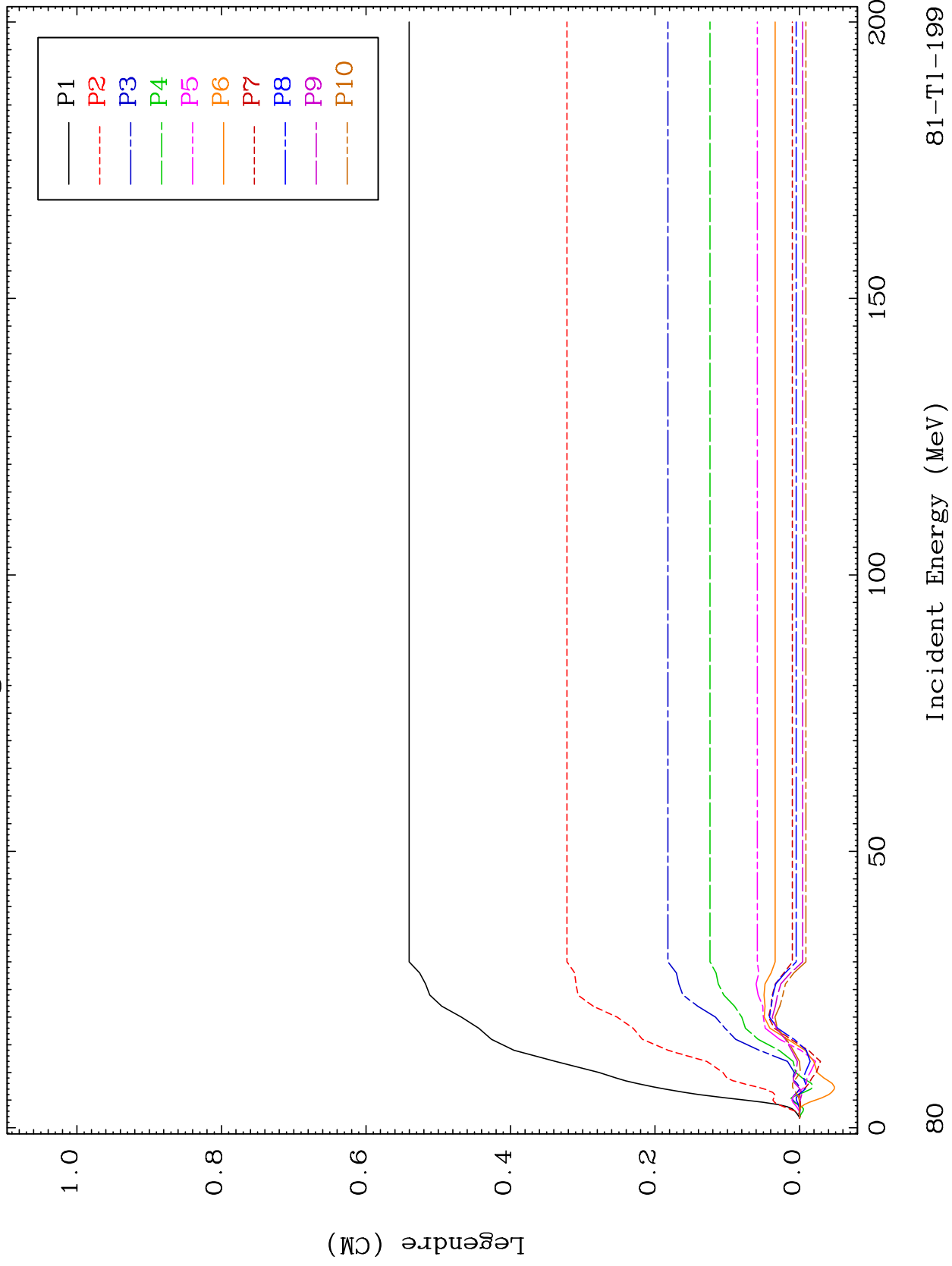
81-T1-199



MAT 81113

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

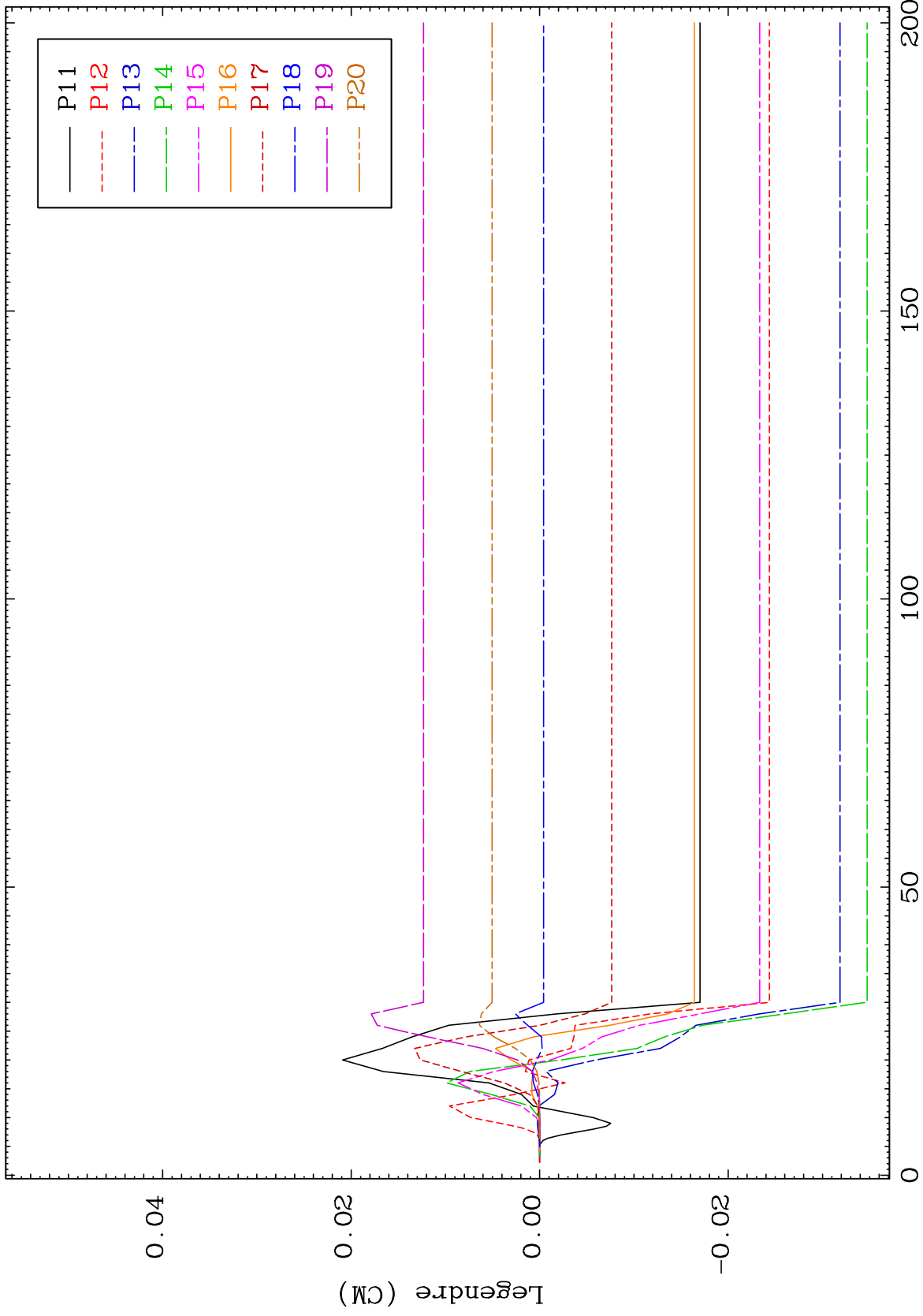
81-T1-199



MAT 81113

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

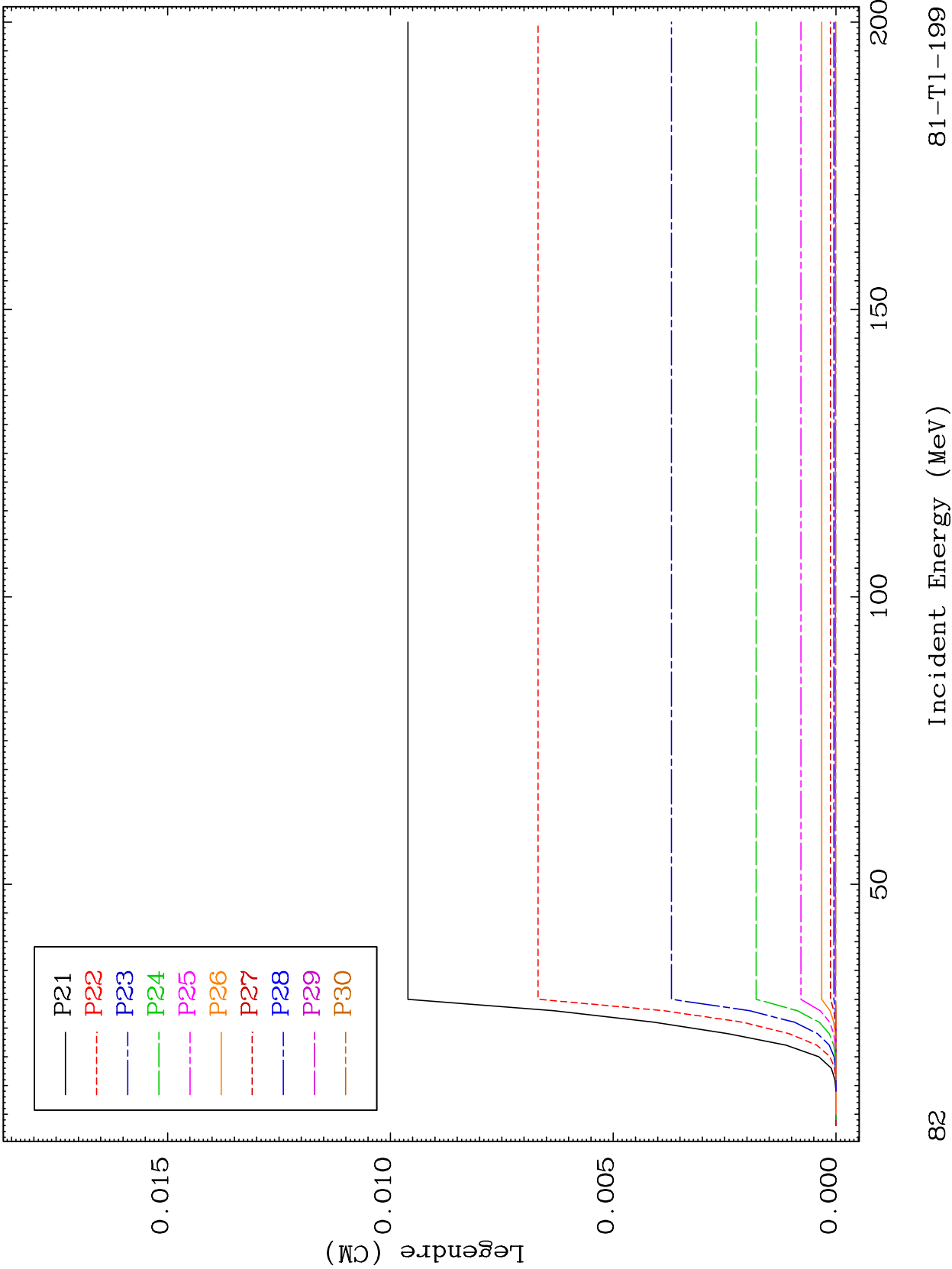
81-T1-199

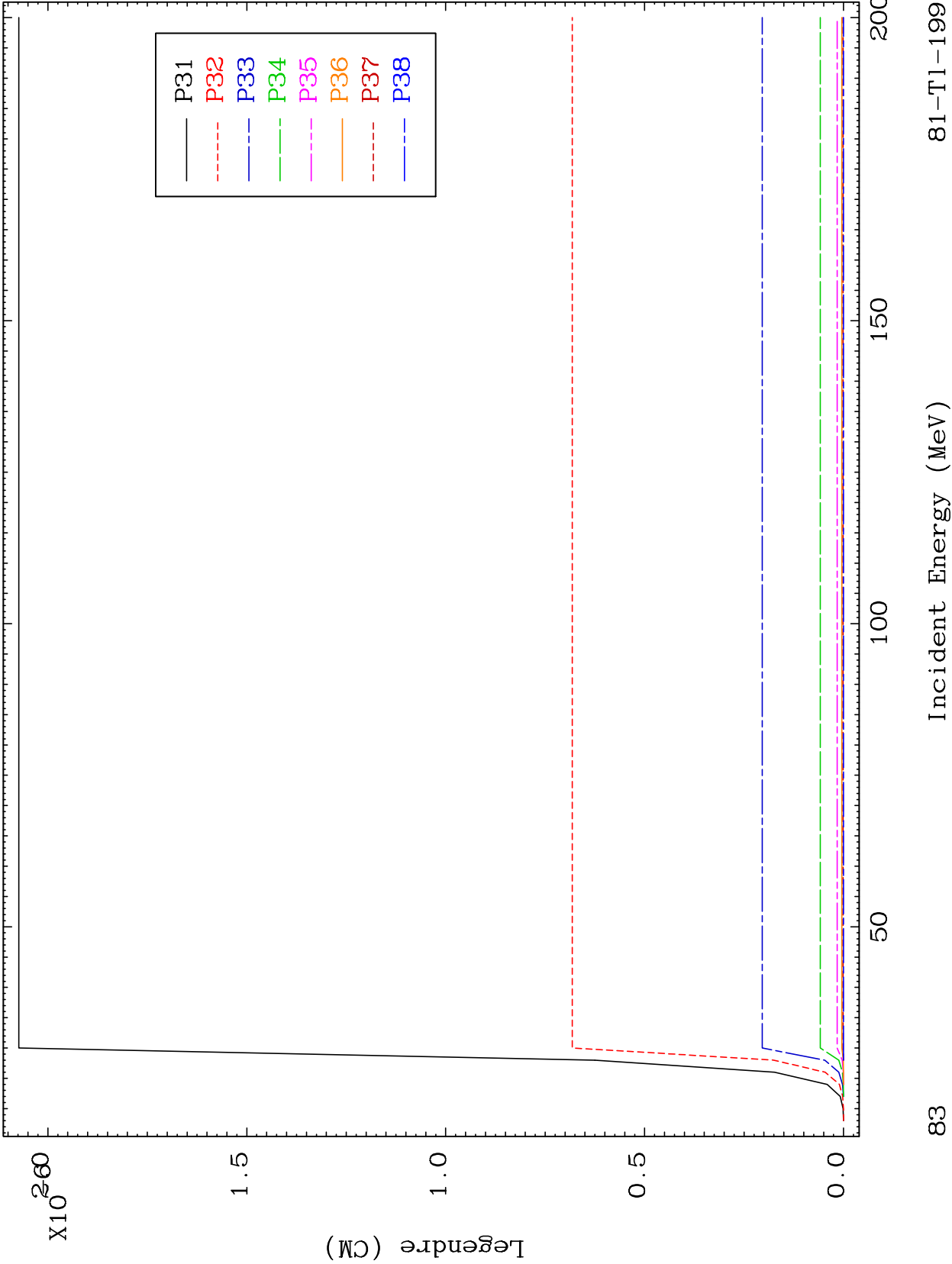


81

Incident Energy (MeV)

81-T1-199

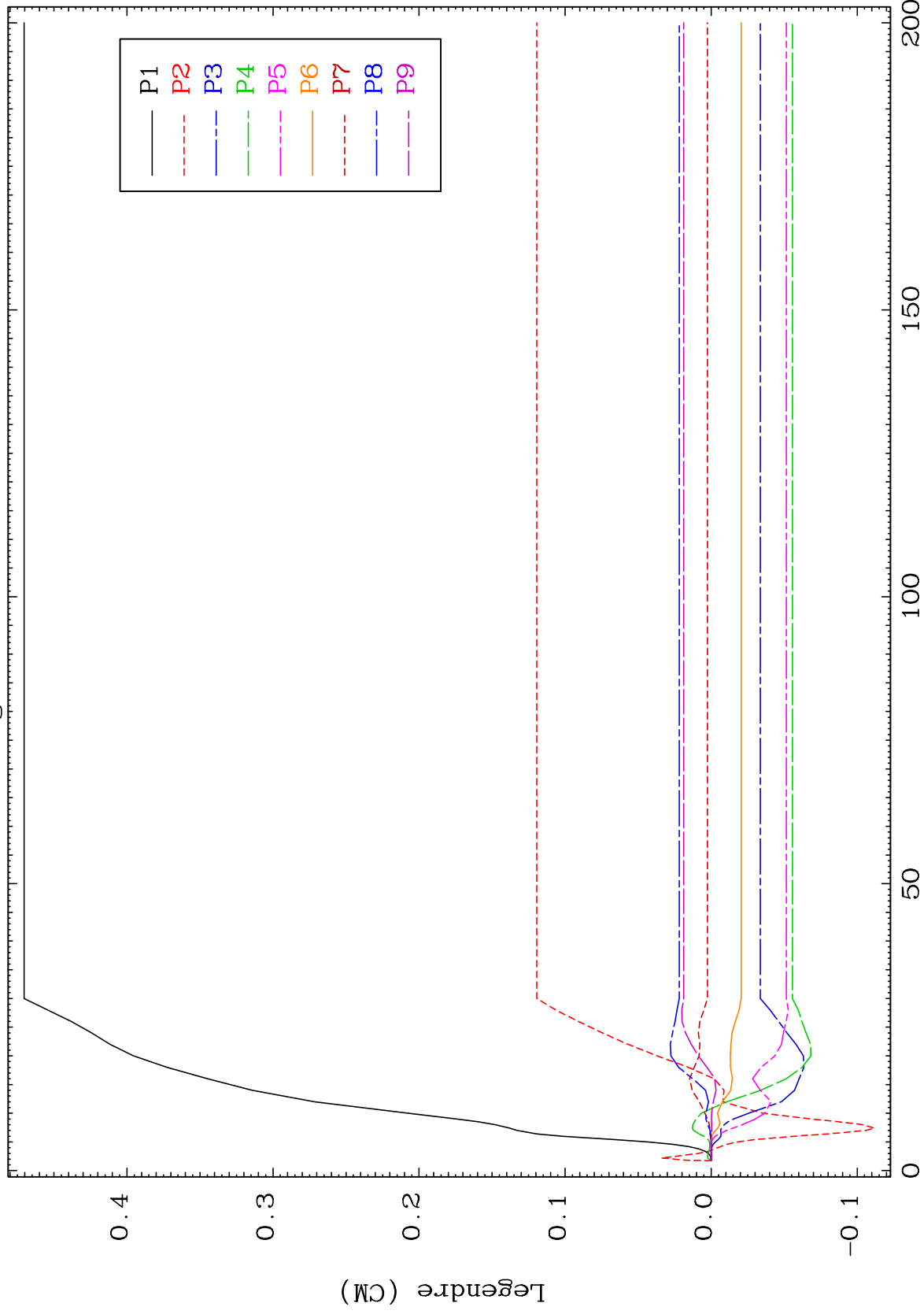




MAT 81113

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

81-T1-199



84

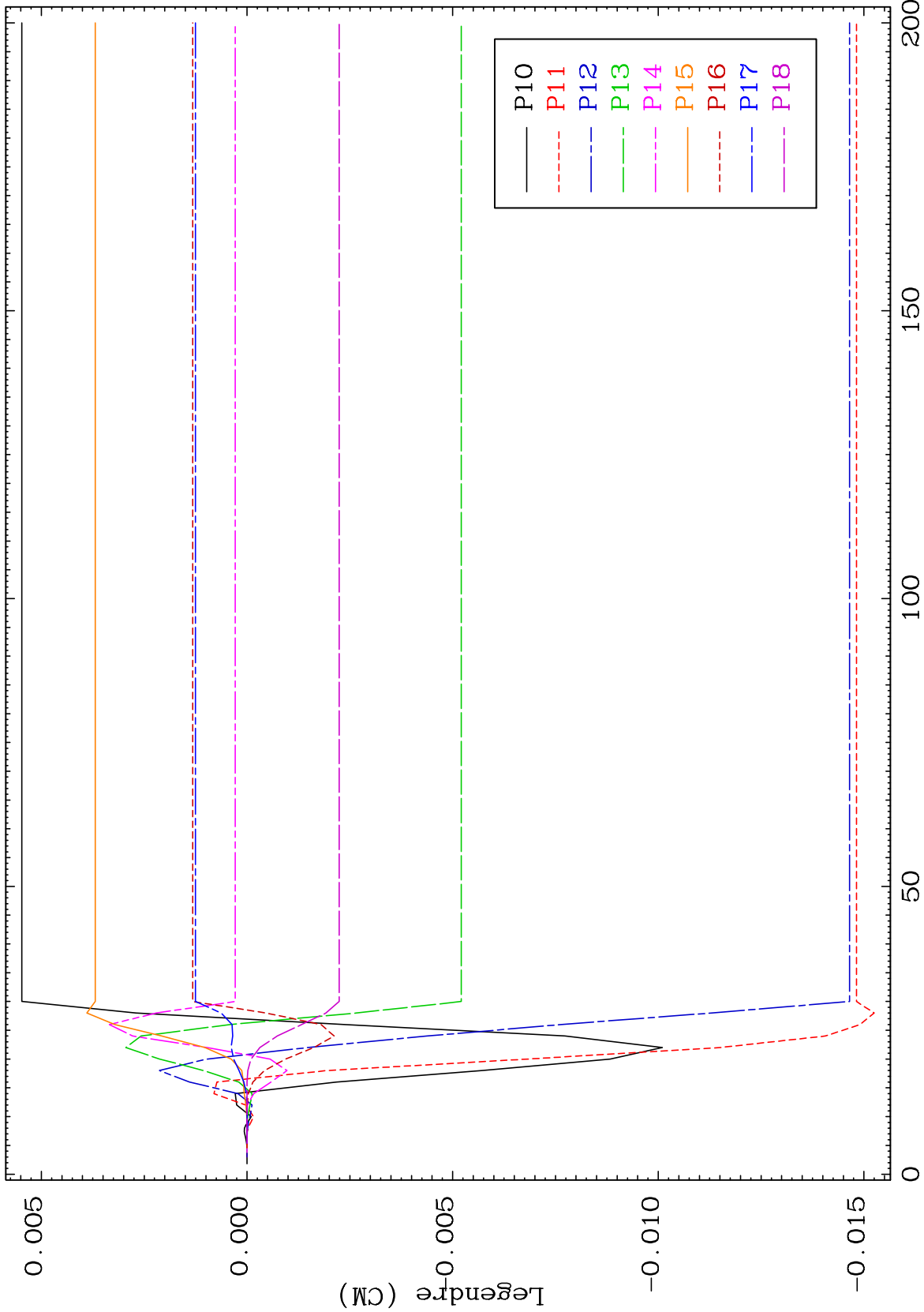
Incident Energy (MeV)

81-T1-199

MAT 81113

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

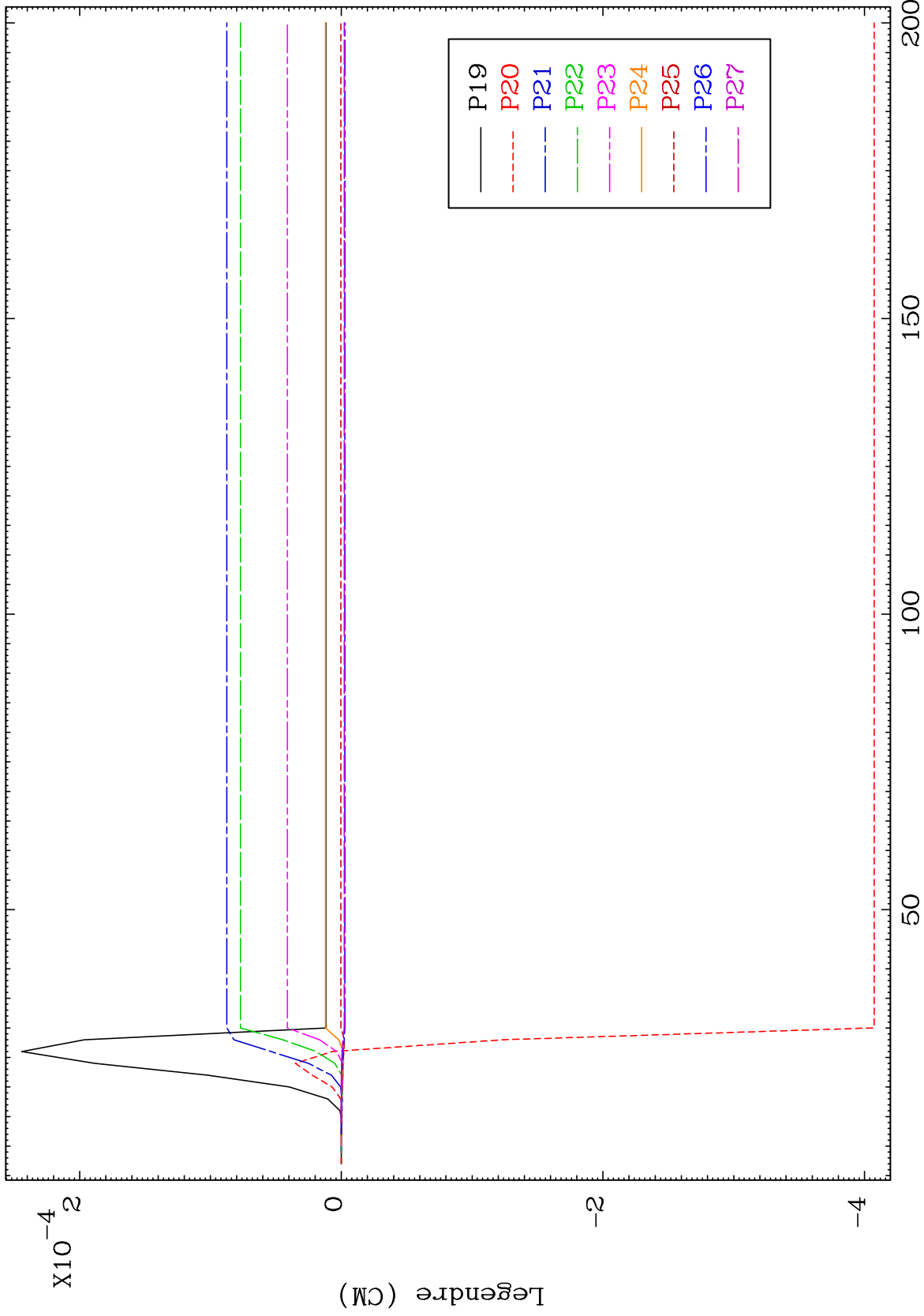
81-T1-199



85

Incident Energy (MeV)

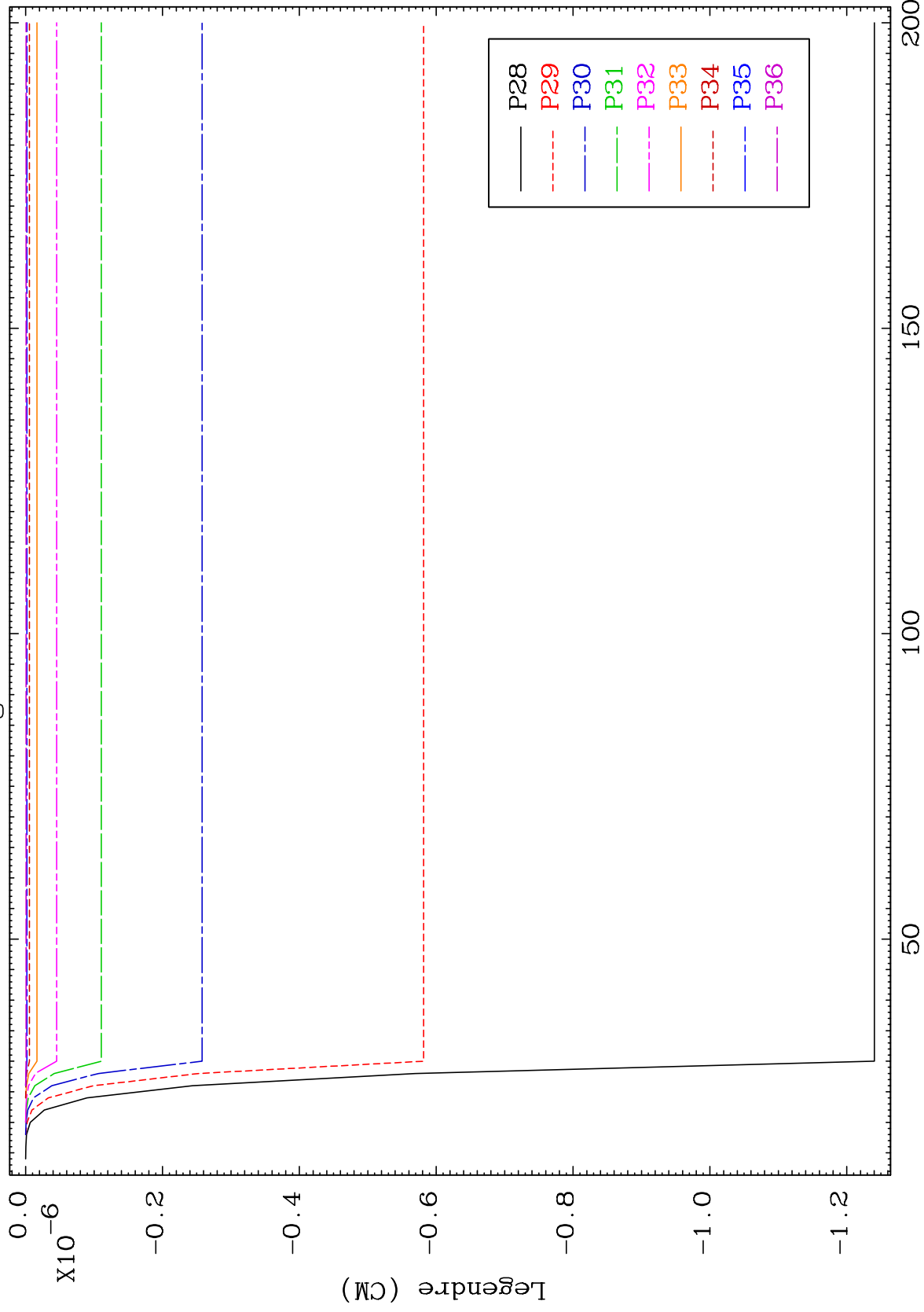
81-T1-199



MAT 81113

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

81-T1-199



87

Incident Energy (MeV)

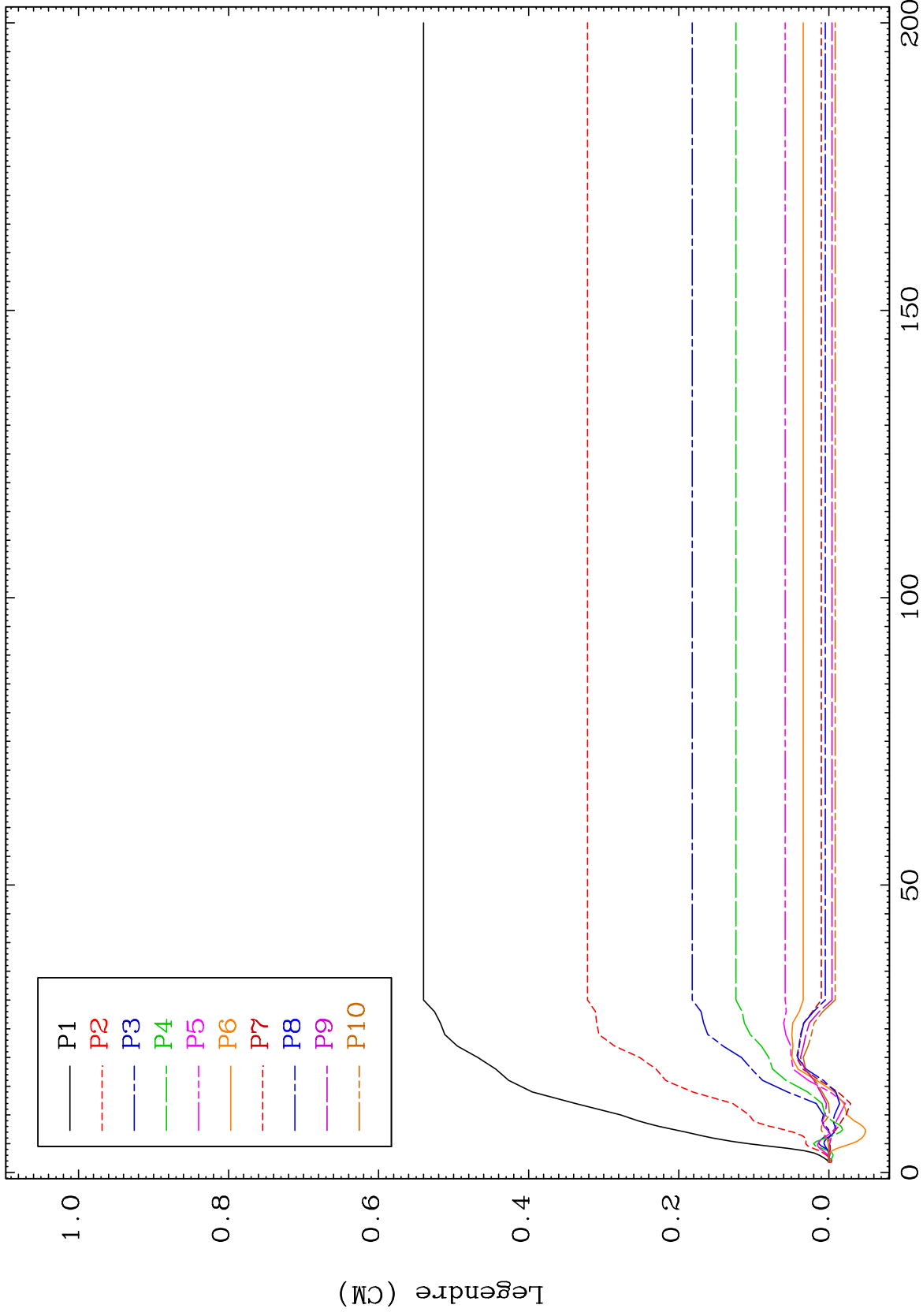
81-T1-199



MAT 81113

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

81-T1-199



88

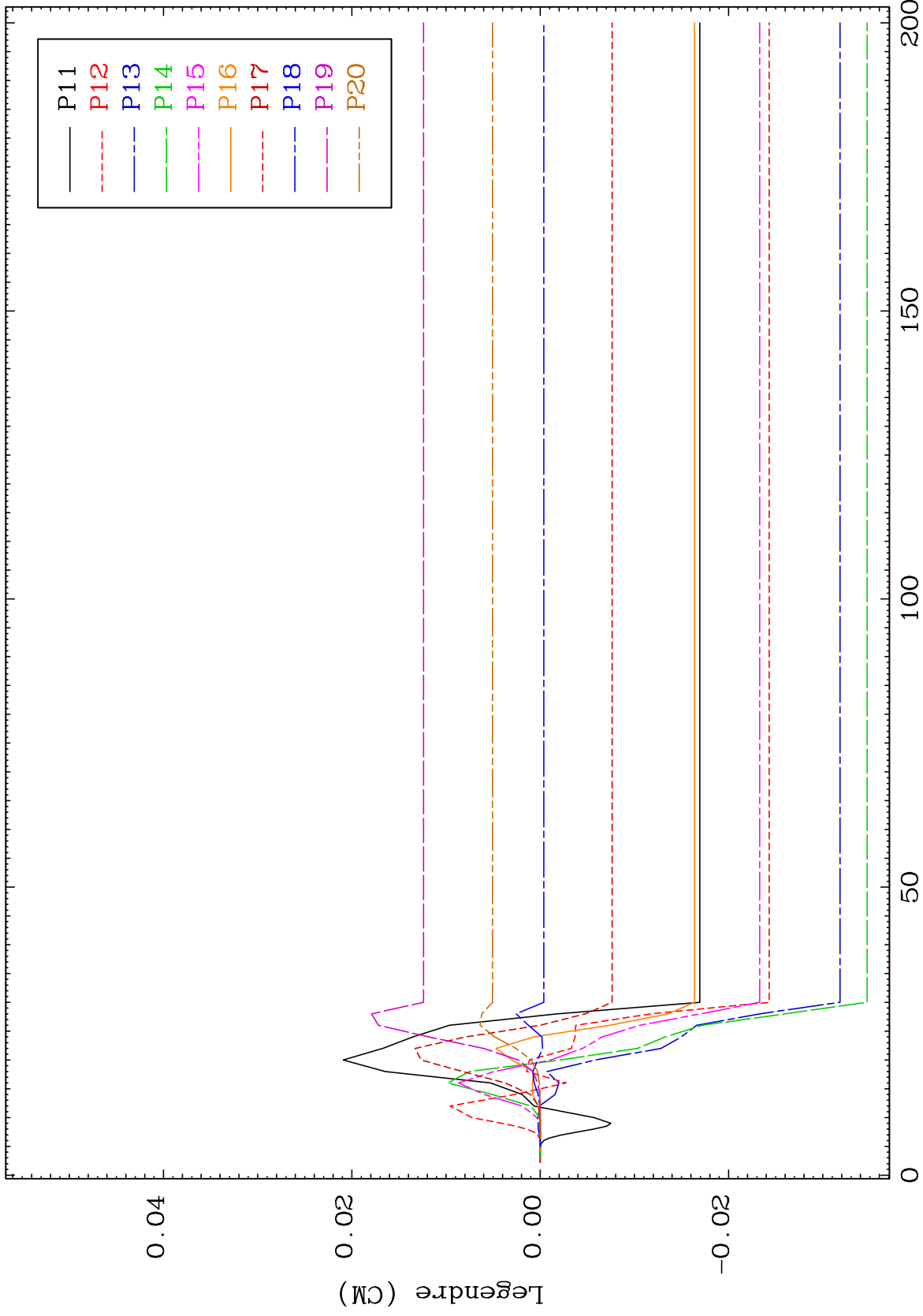
Incident Energy (MeV)

81-T1-199

MAT 81113

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

81-T1-199



89

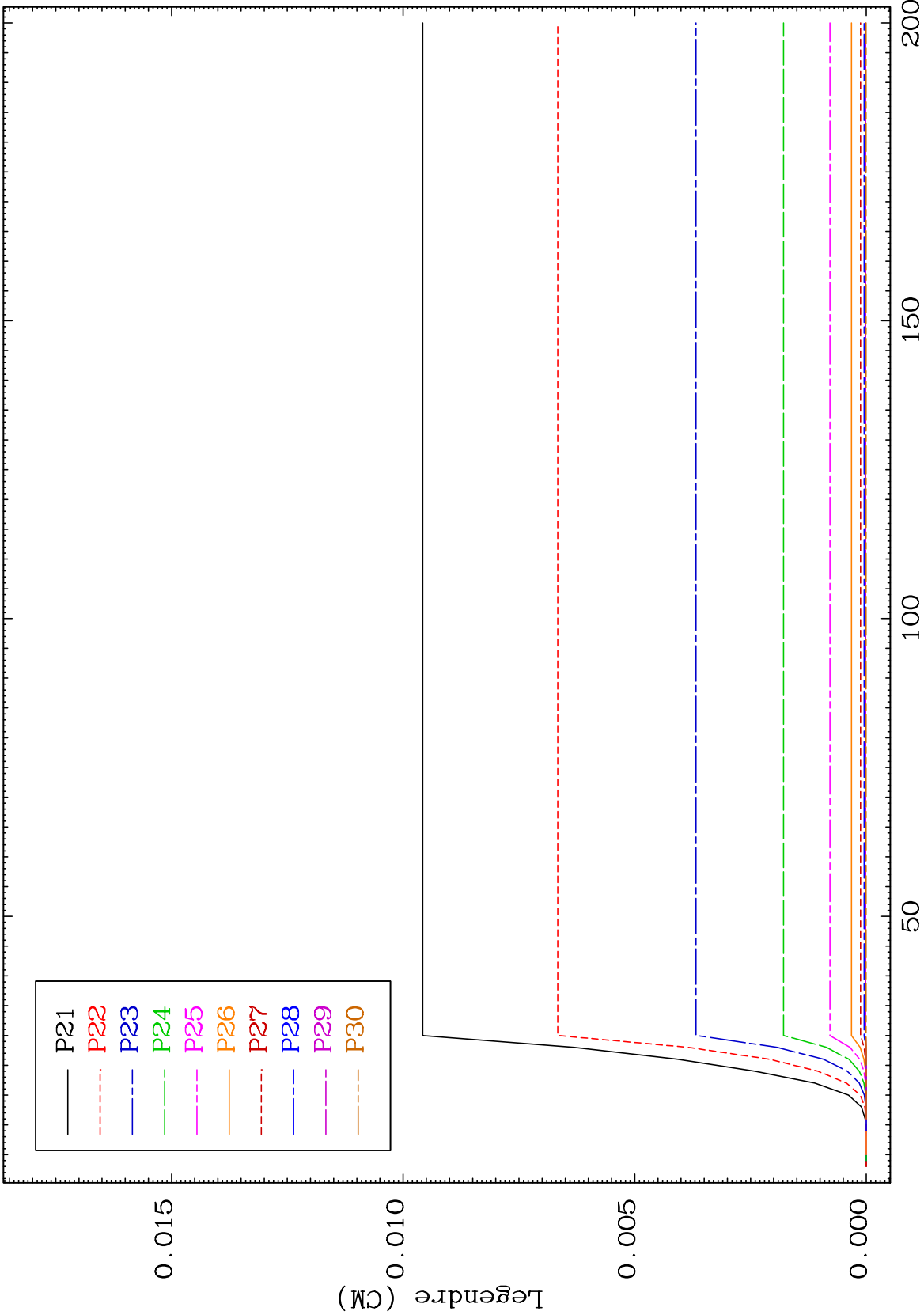
Incident Energy (MeV)

81-T1-199

MAT 8113

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

81-Tl-199



90

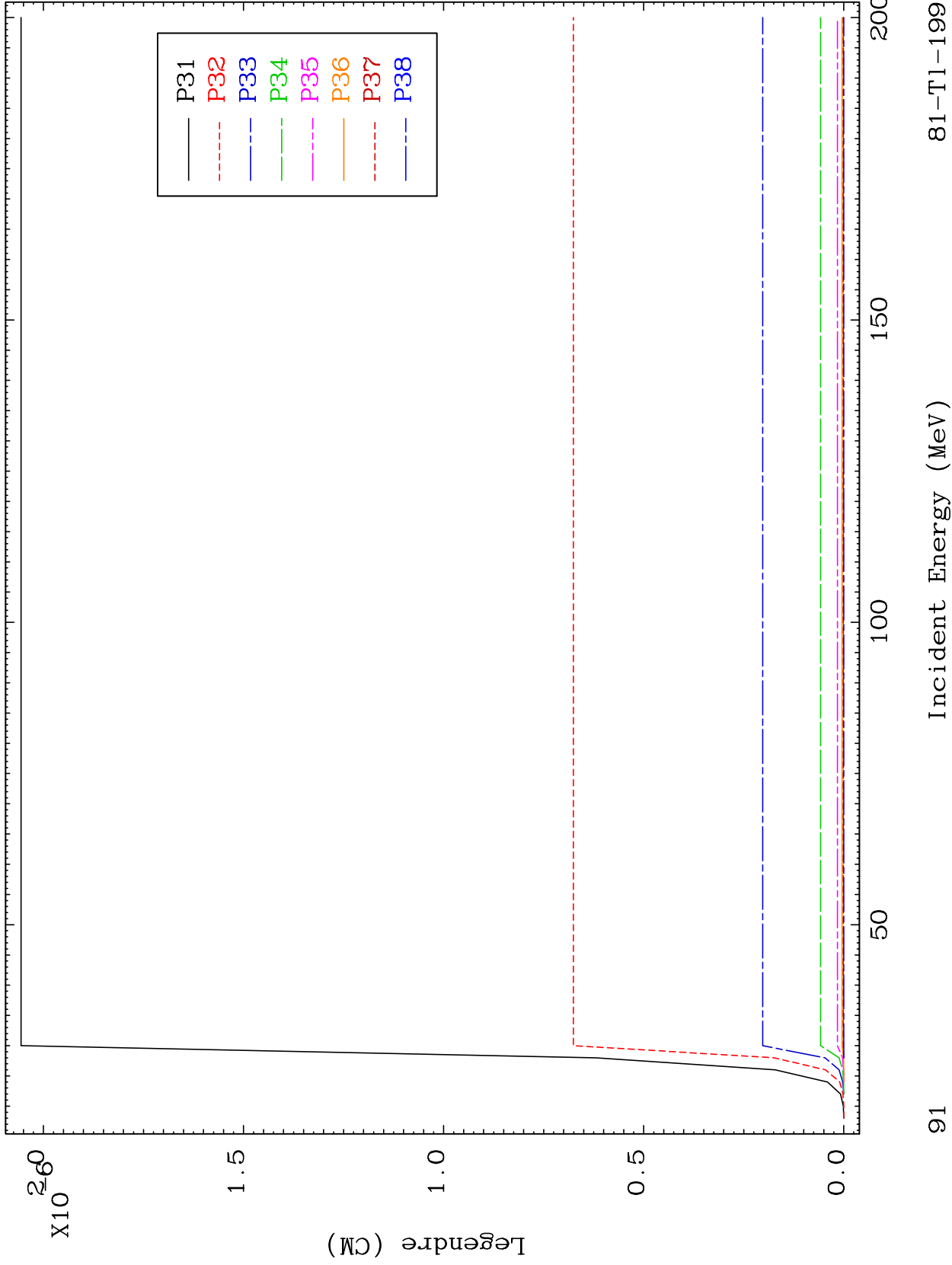
Incident Energy (MeV)

81-Tl-199

MAT 81113

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

81-T1-199



91

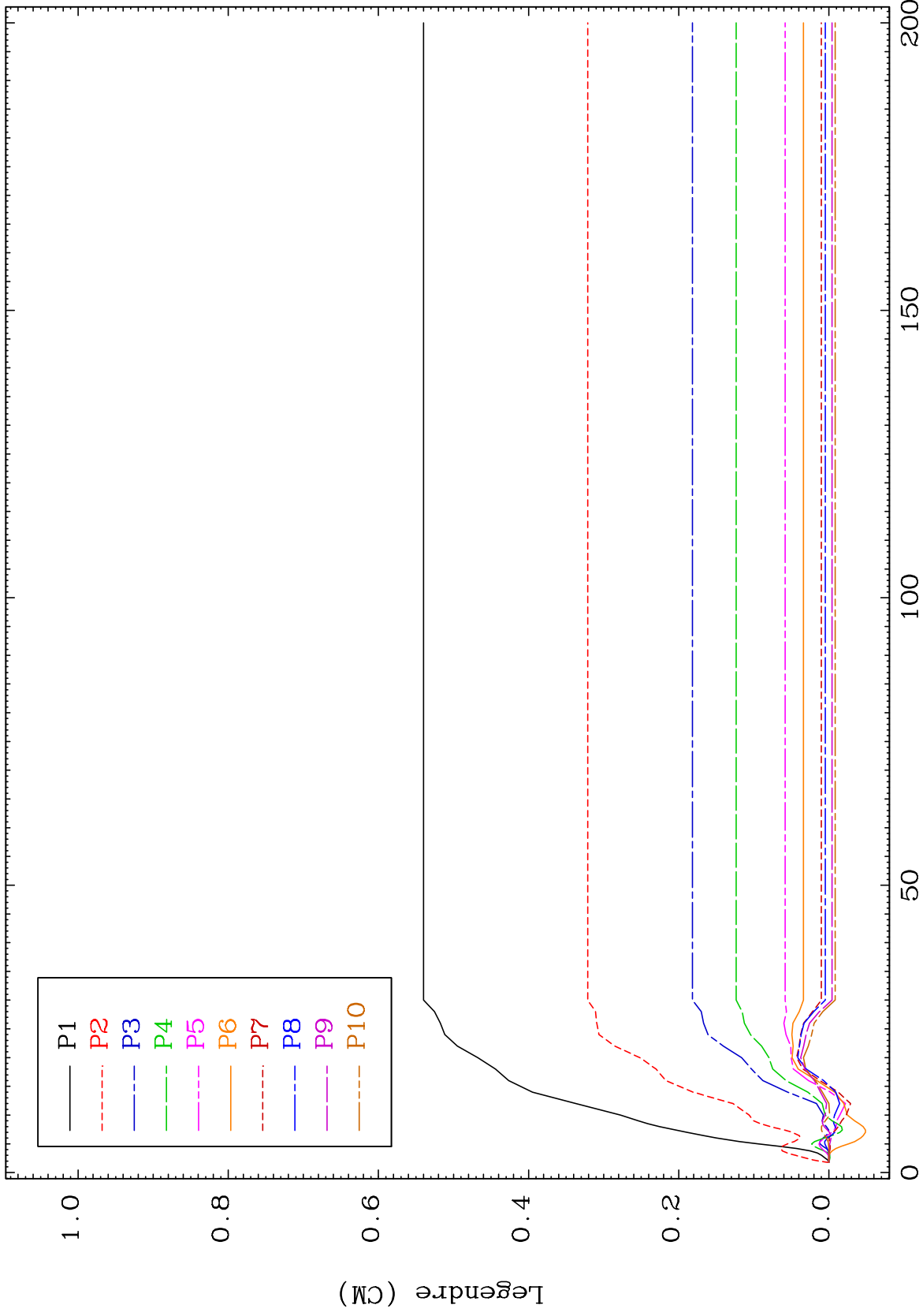
Incident Energy (MeV)

81-T1-199

MAT 81113

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

81-T1-199



92

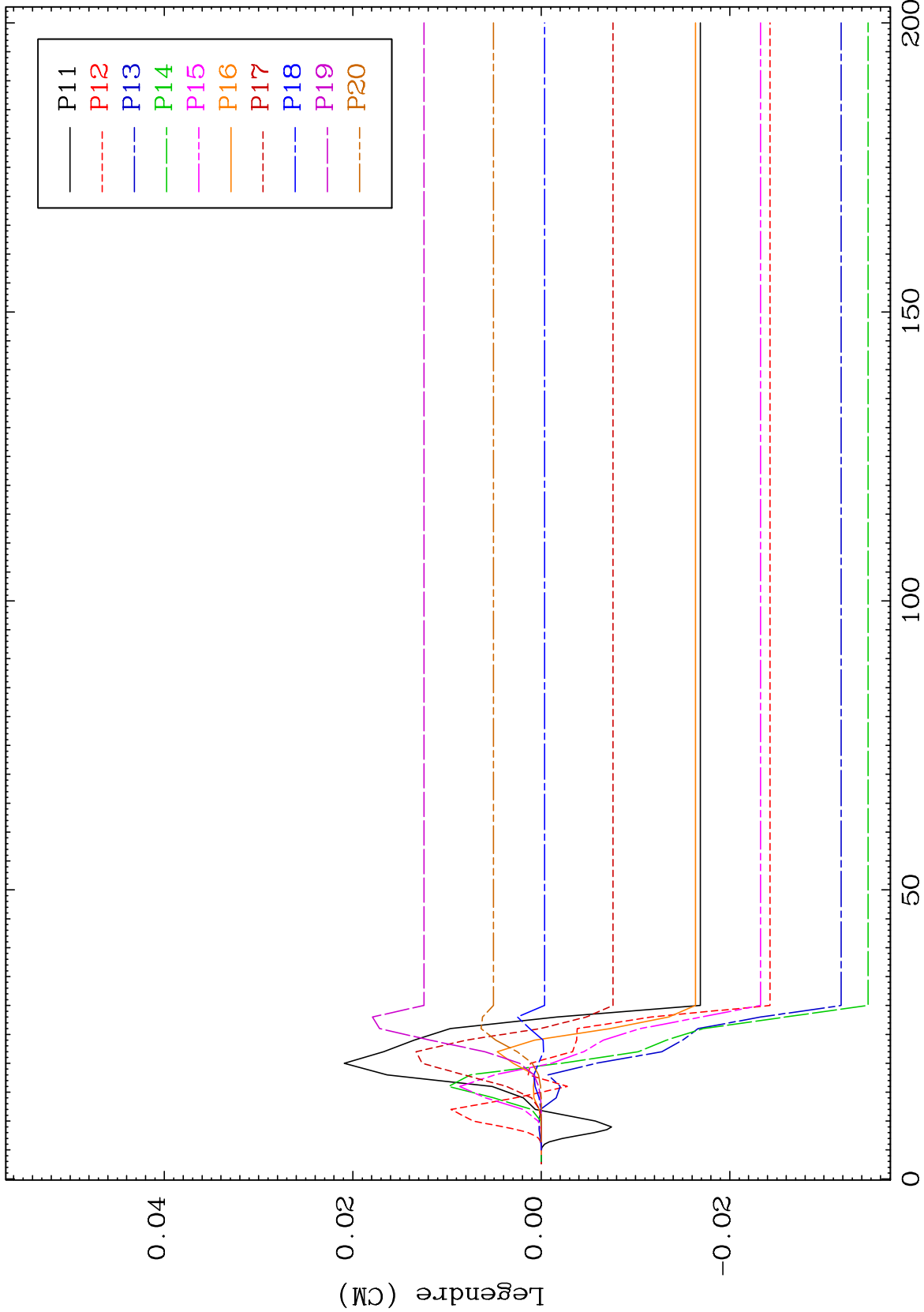
Incident Energy (MeV)

81-T1-199

MAT 81113

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

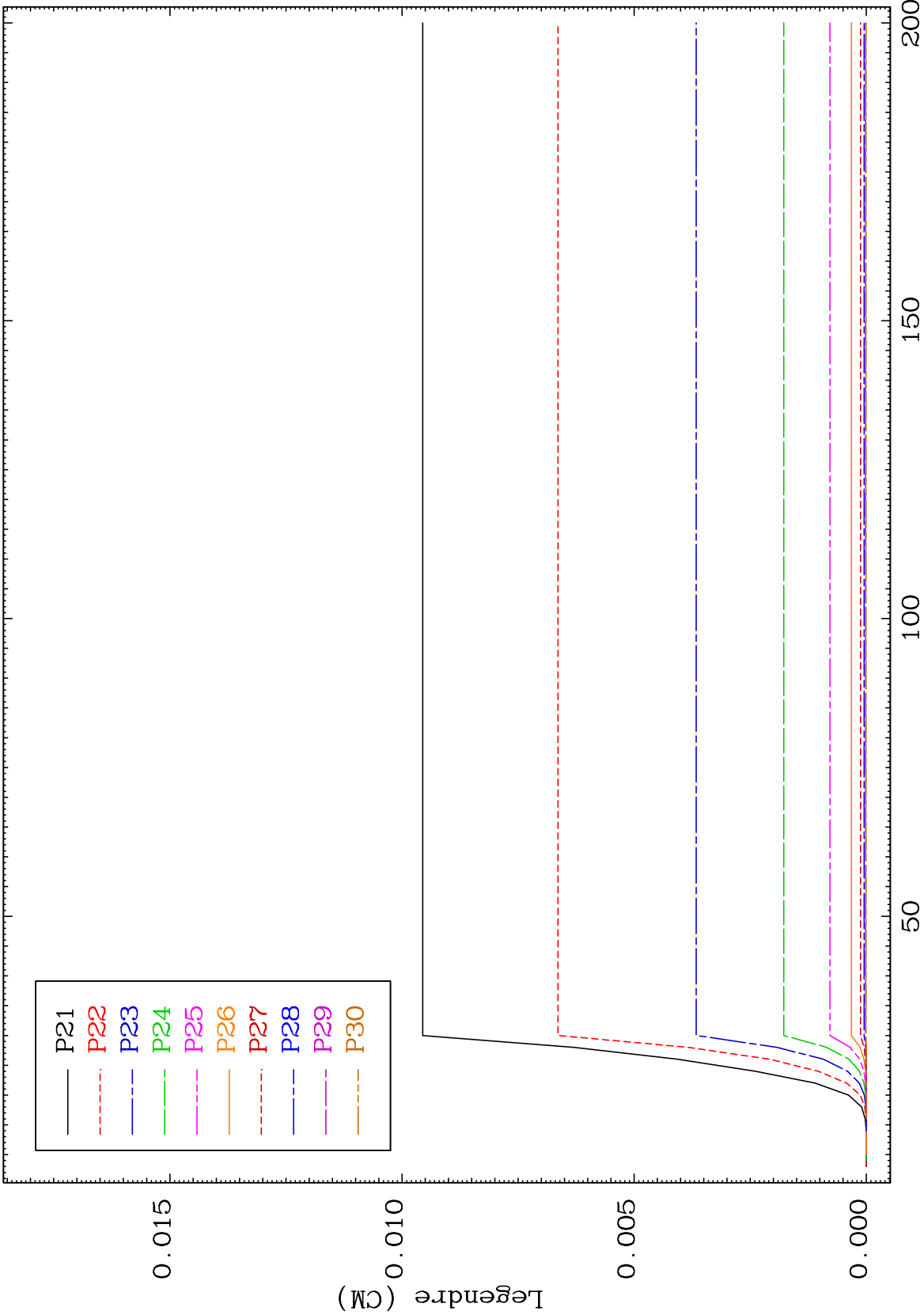
81-T1-199



93

Incident Energy (MeV)

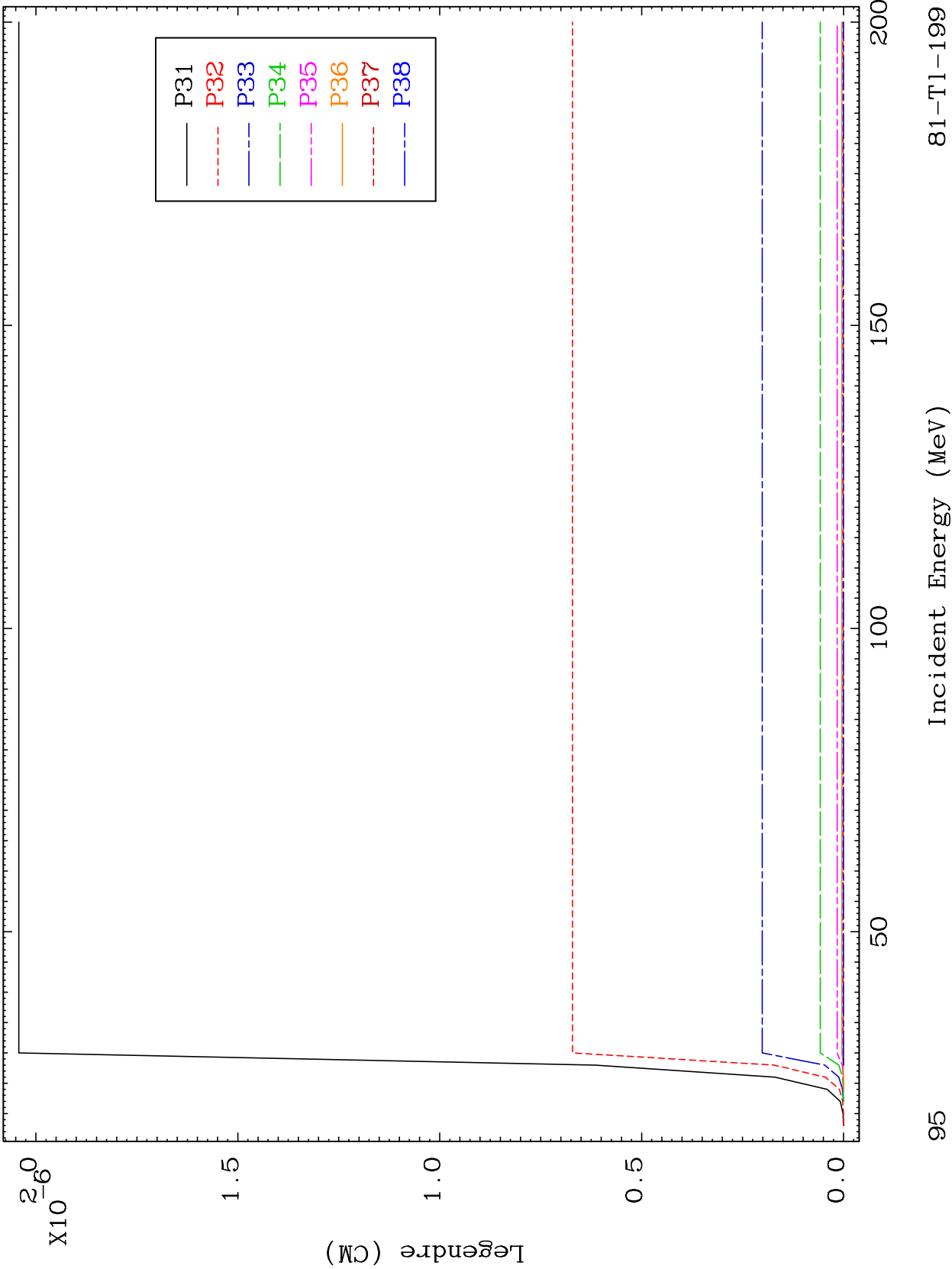
81-T1-199



MAT 81113

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

81-Tl-199



81-Tl-199

Incident Energy (MeV)

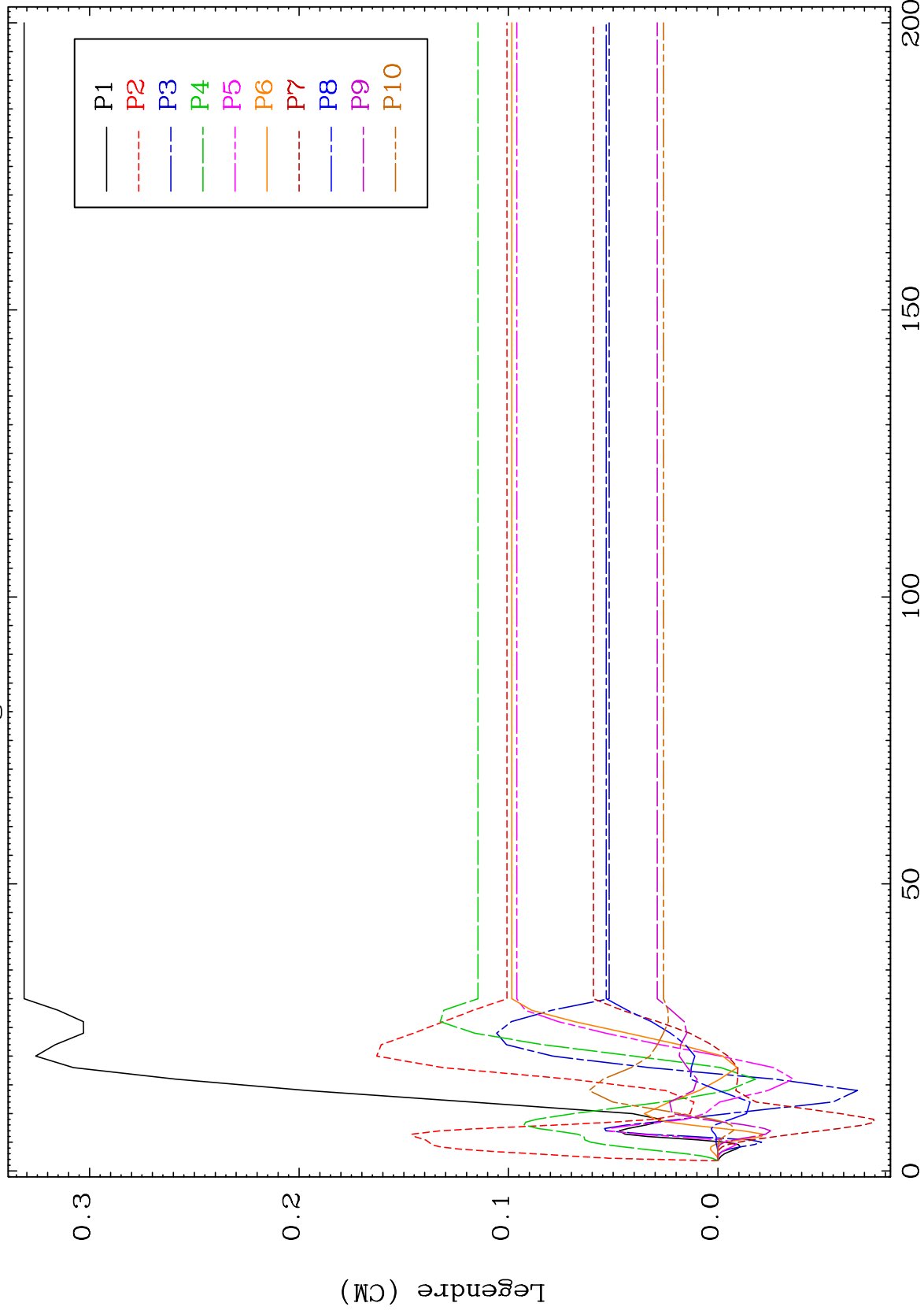
95



MAT 8113

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

81-T1-199



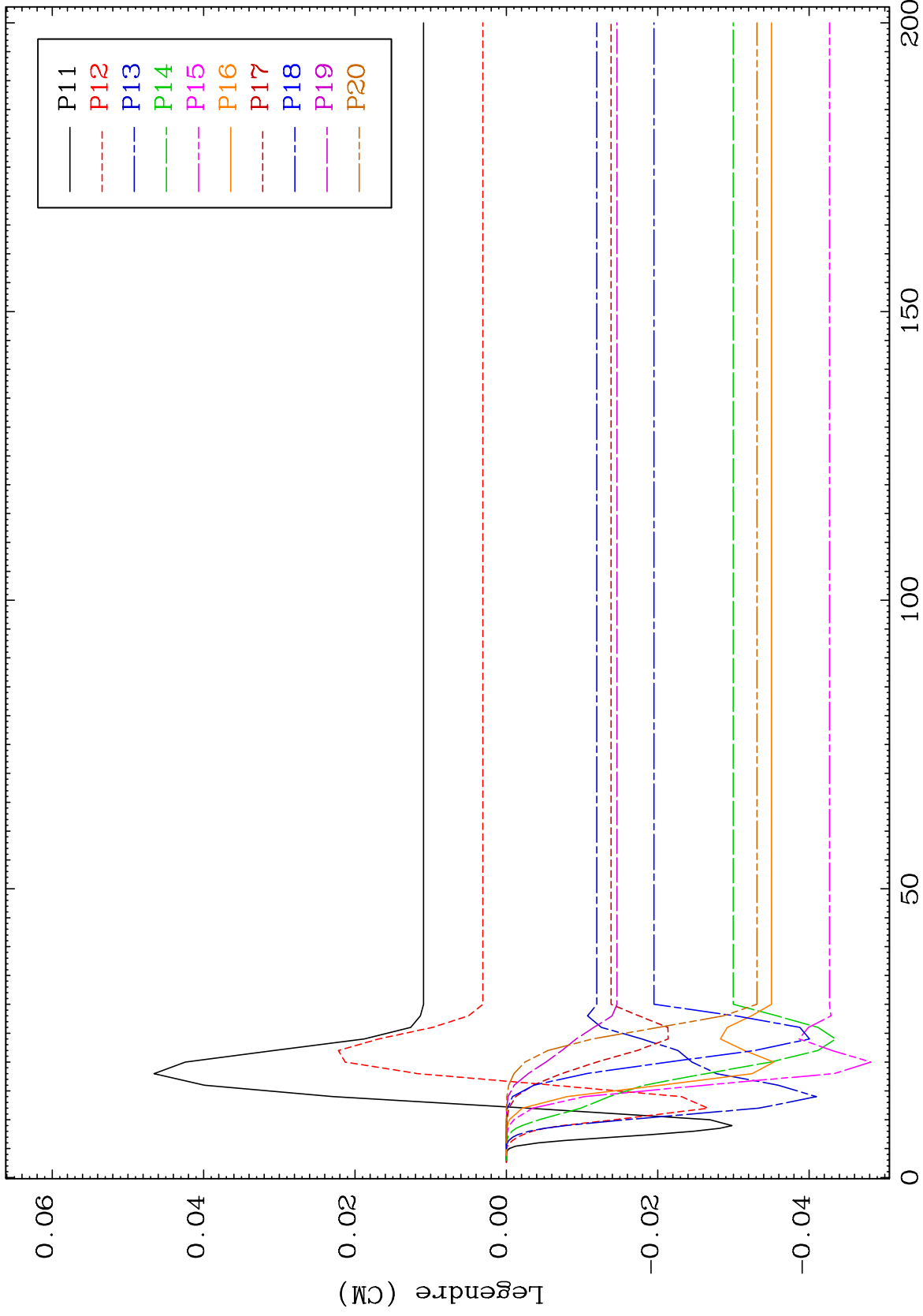
96

81-T1-199

MAT 81113

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

81-T1-199



97

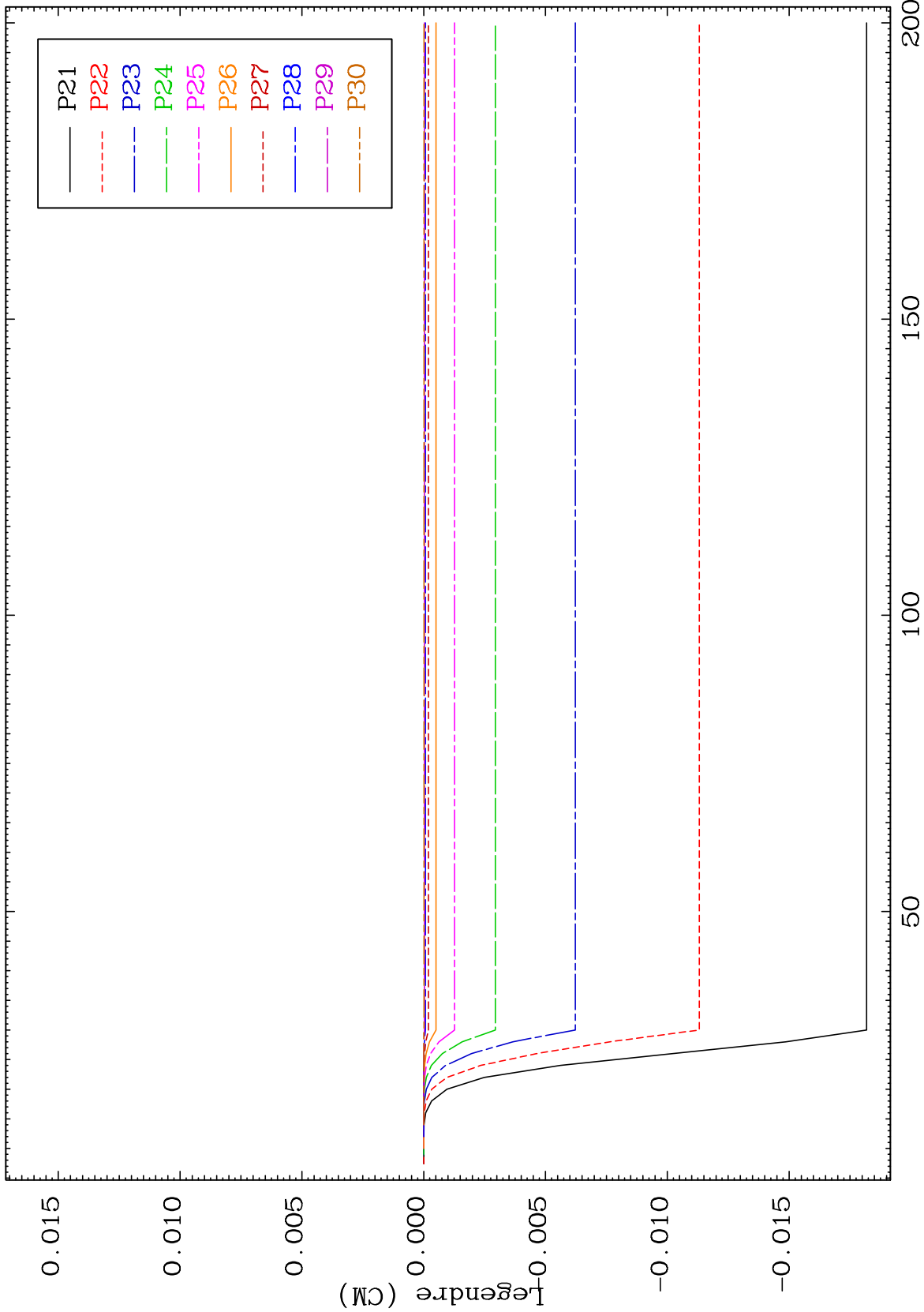
Incident Energy (MeV)

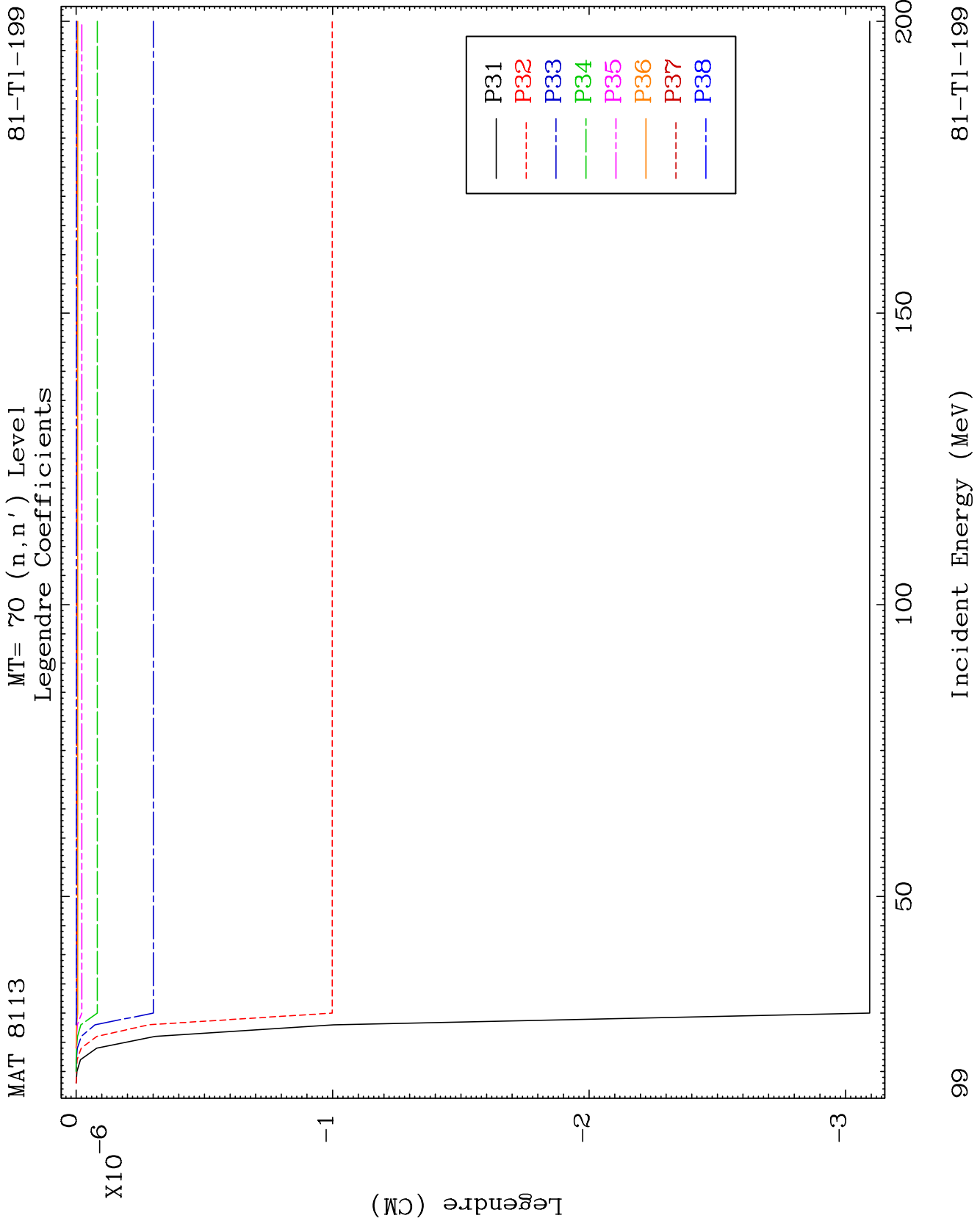
81-T1-199

MAT 8113

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

81-T1-199



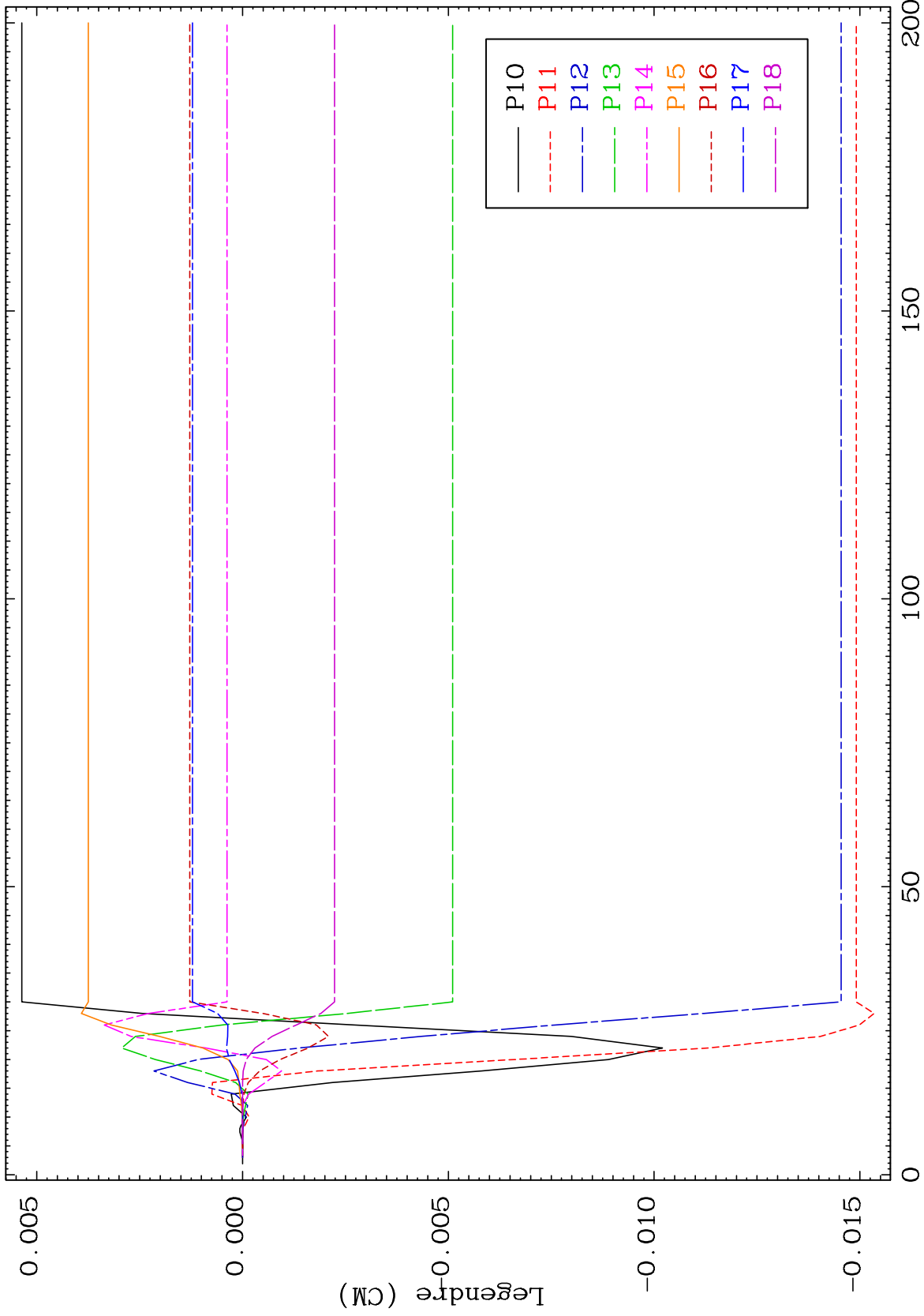




MAT 81113

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

81-T1-199



101

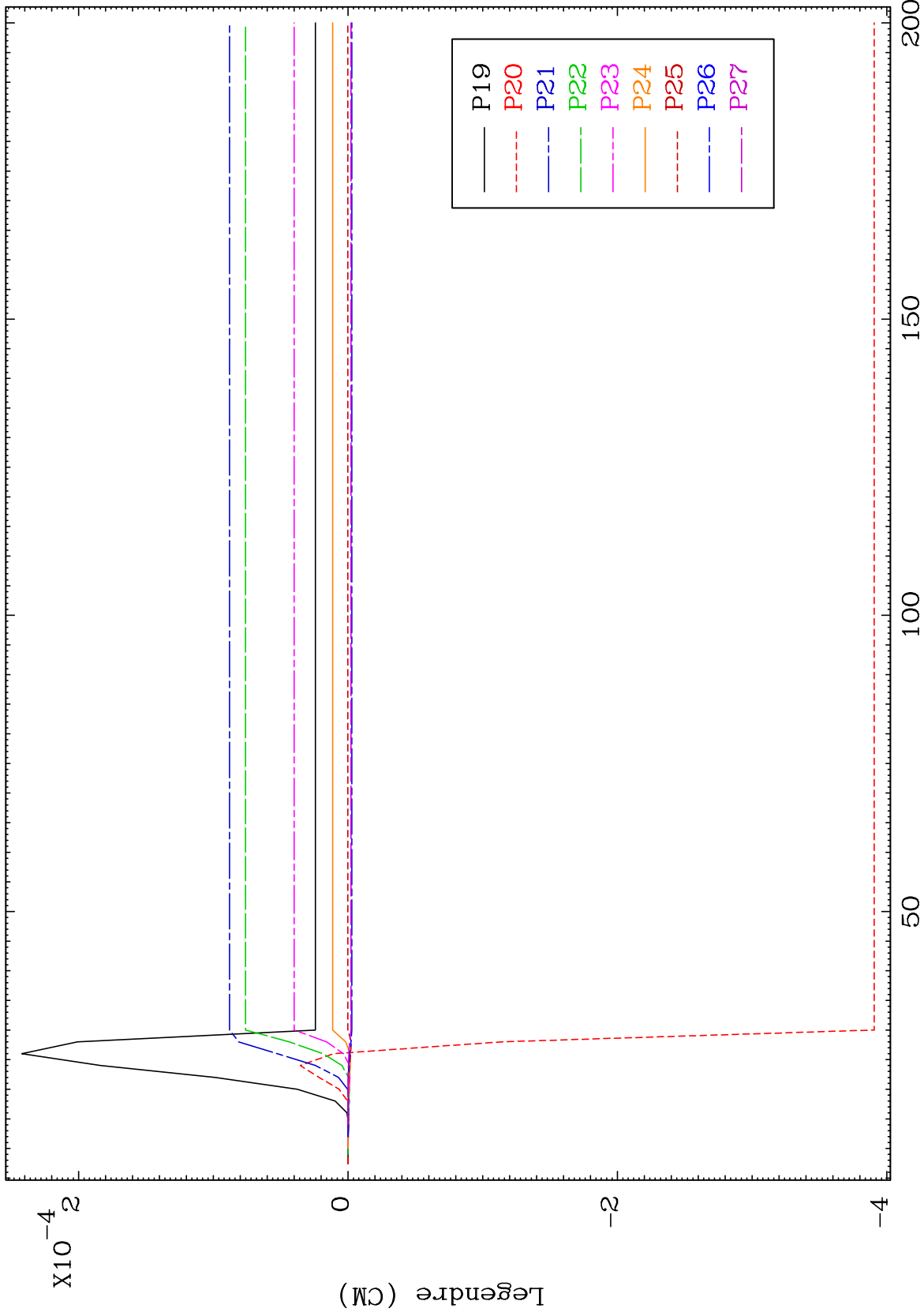
Incident Energy (MeV)

81-T1-199

MAT 8113

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

81-T1-199



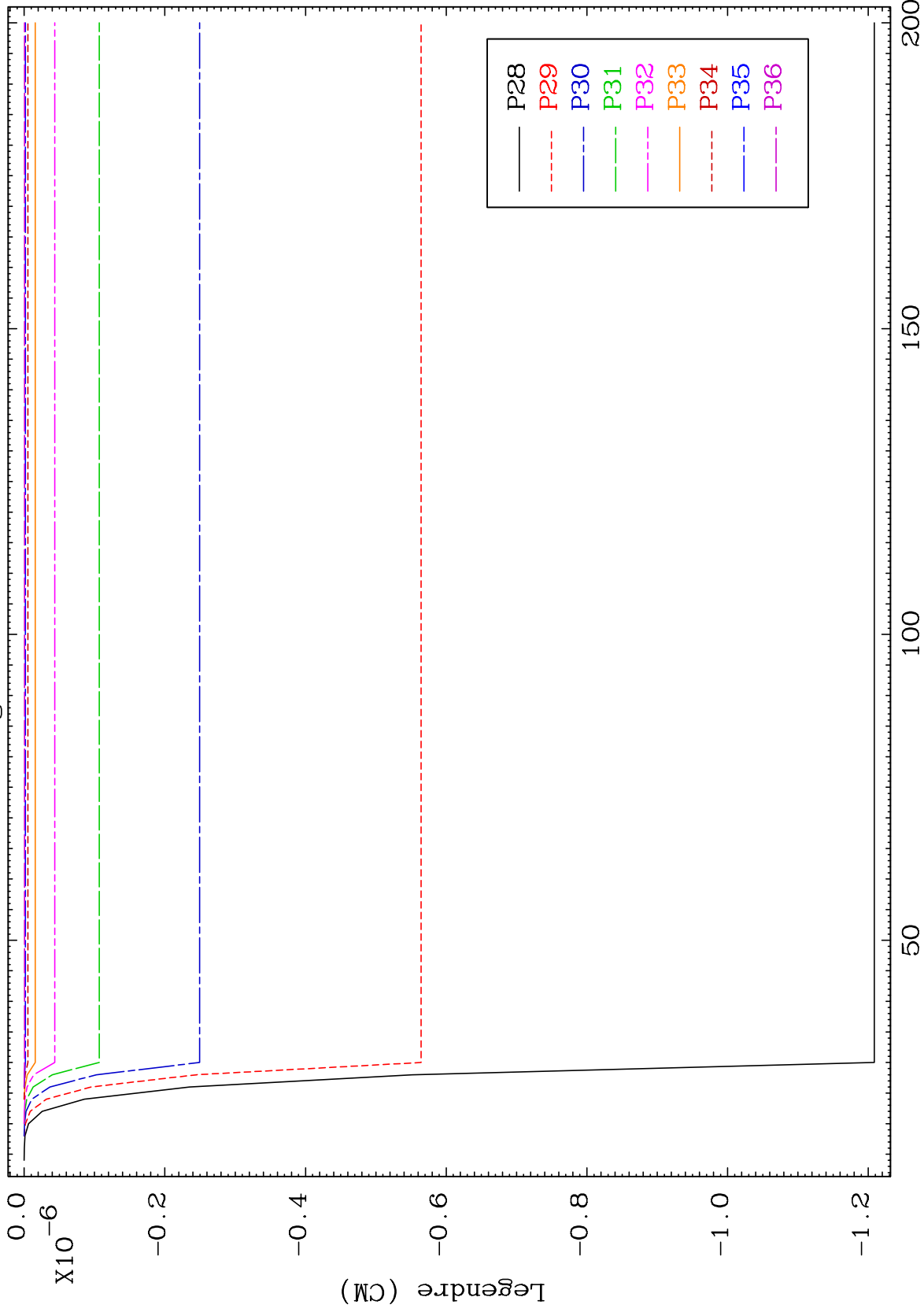
102

81-T1-199

MAT 81113

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

81-T1-199



103

Incident Energy (MeV)

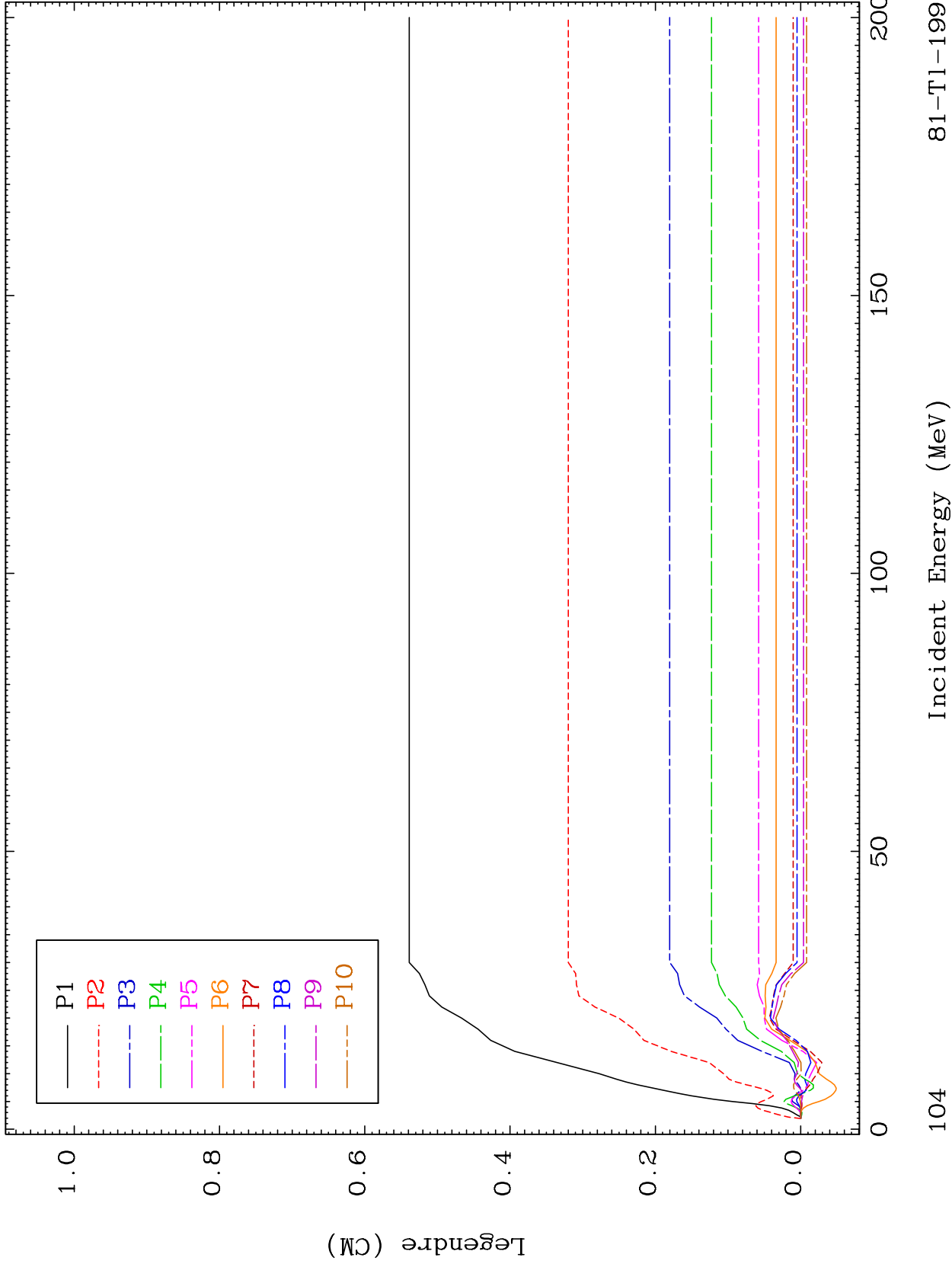
81-T1-199



MAT 81113

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

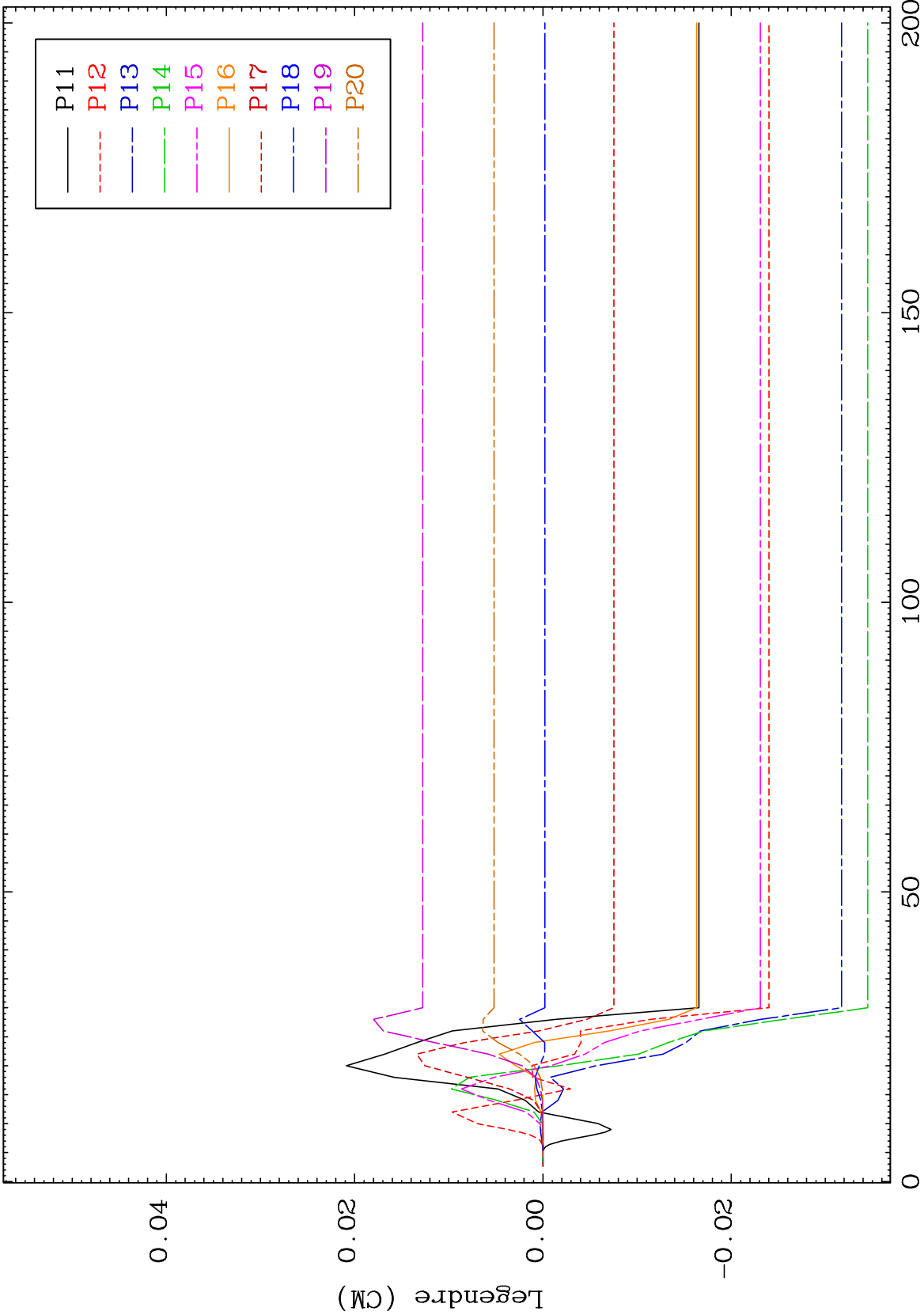
81-T1-199



MAT 81113

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

81-T1-199



105

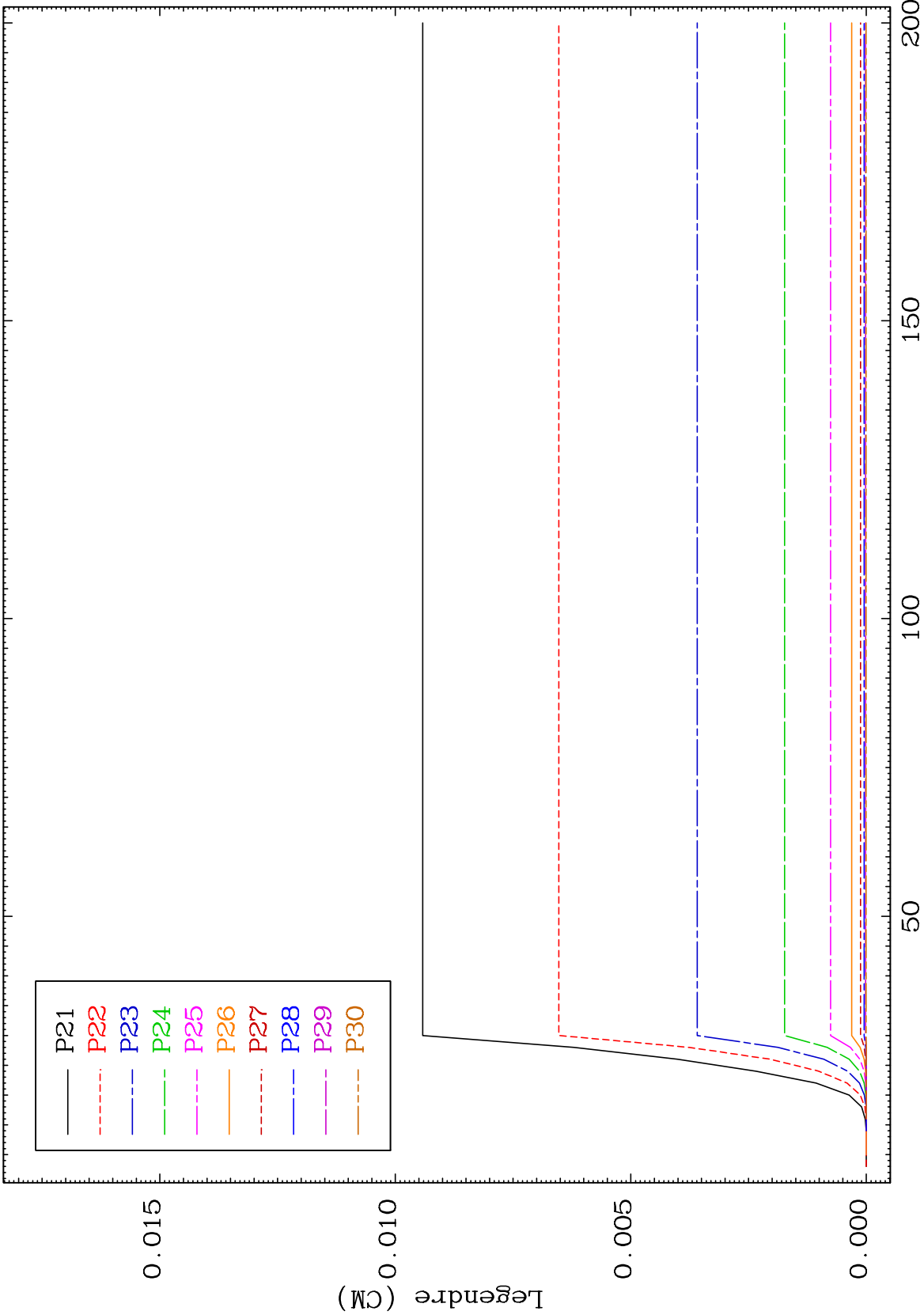
Incident Energy (MeV)

81-T1-199

MAT 81113

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

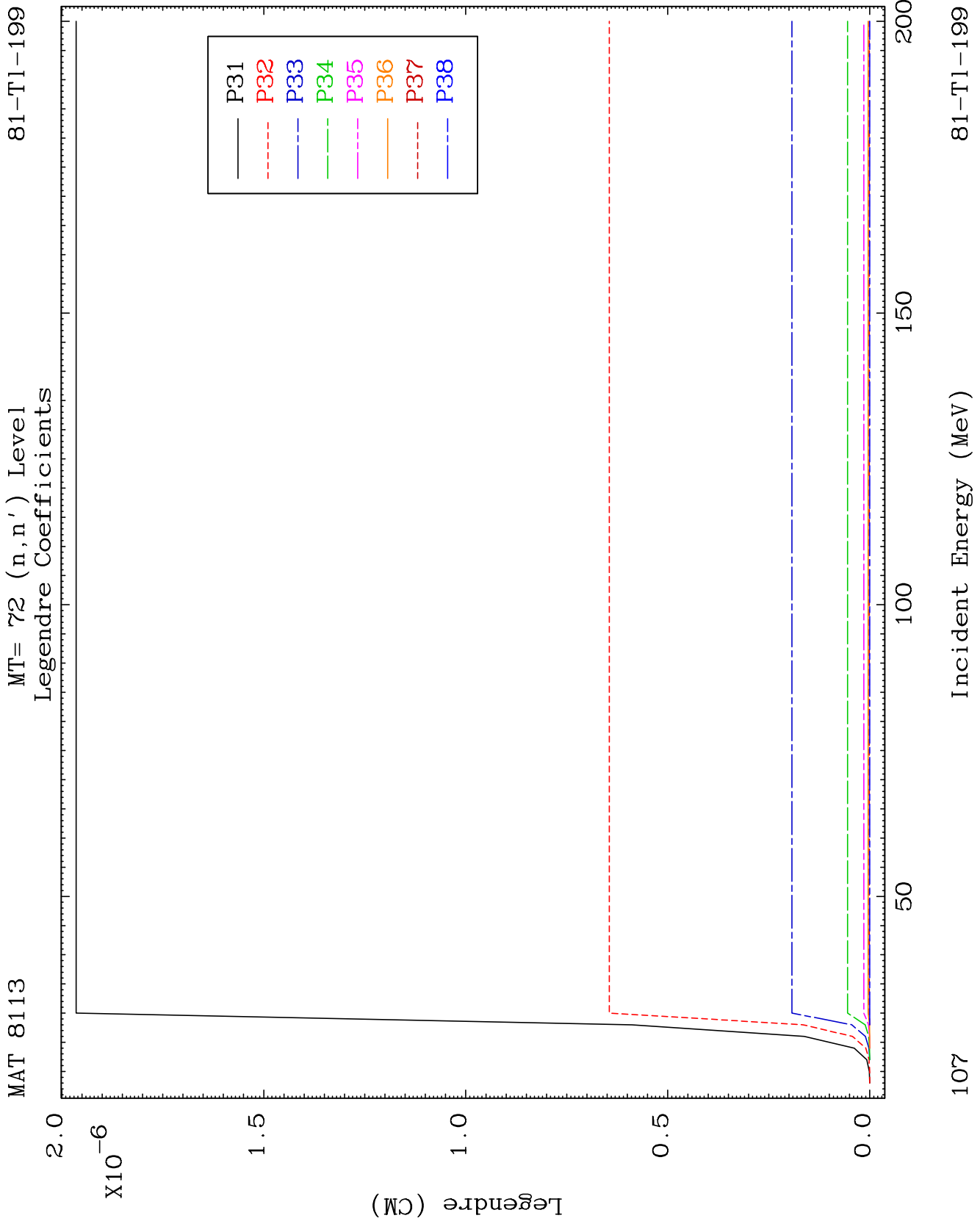
81-T1-199



106

Incident Energy (MeV)

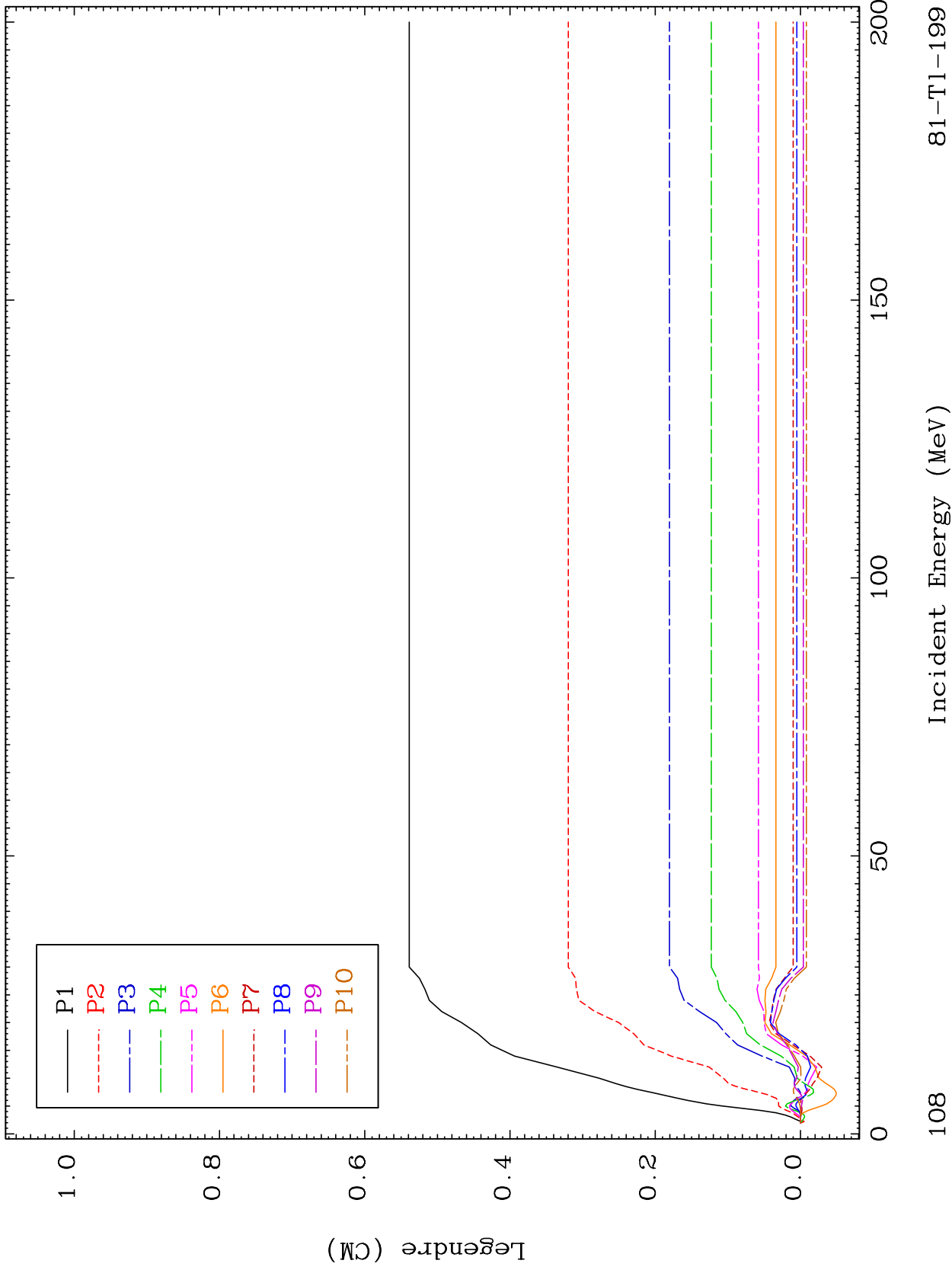
81-T1-199



MAT 81113

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

81-T1-199



81-T1-199

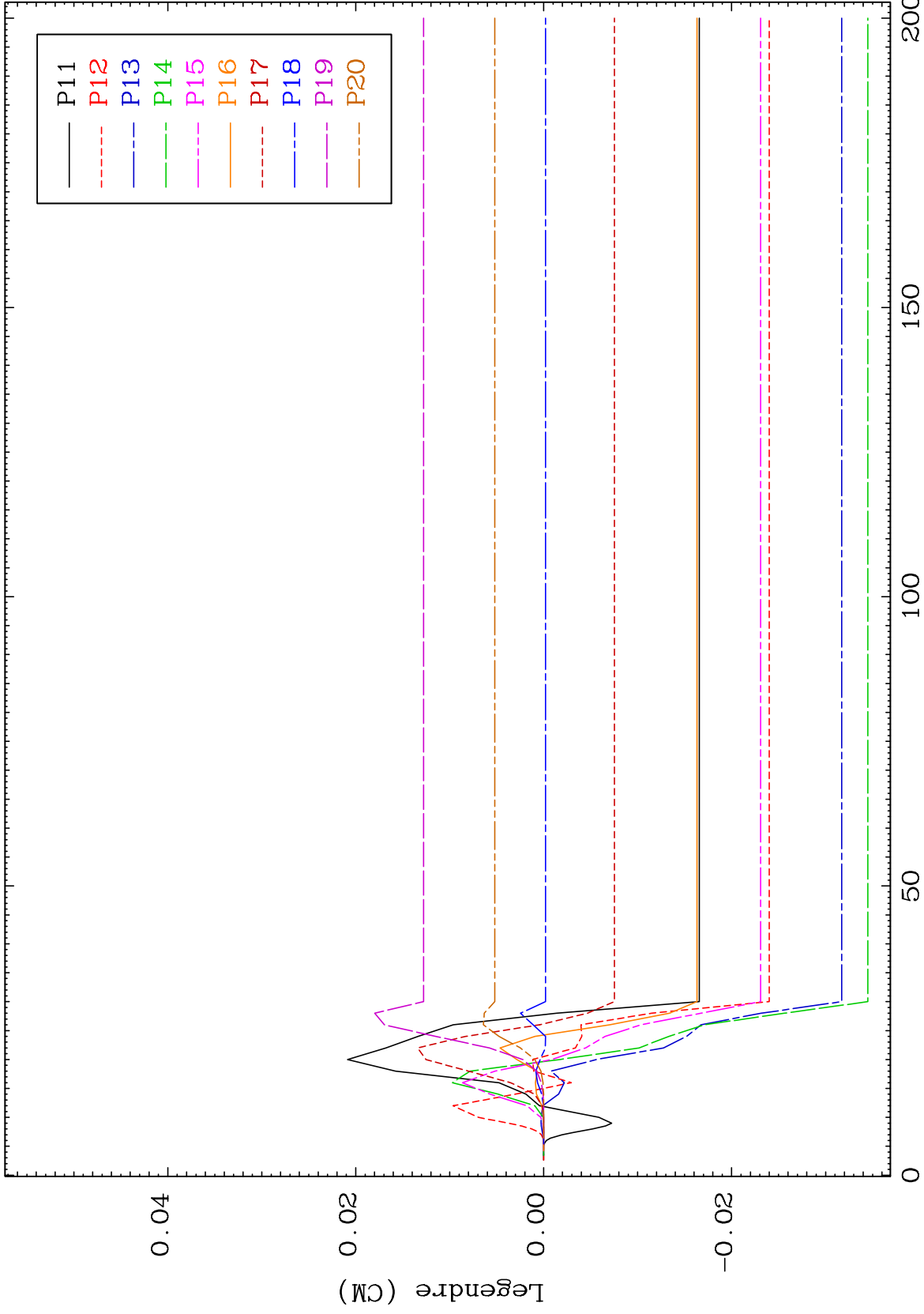
Incident Energy (MeV)

108

MAT 81113

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

81-T1-199



109

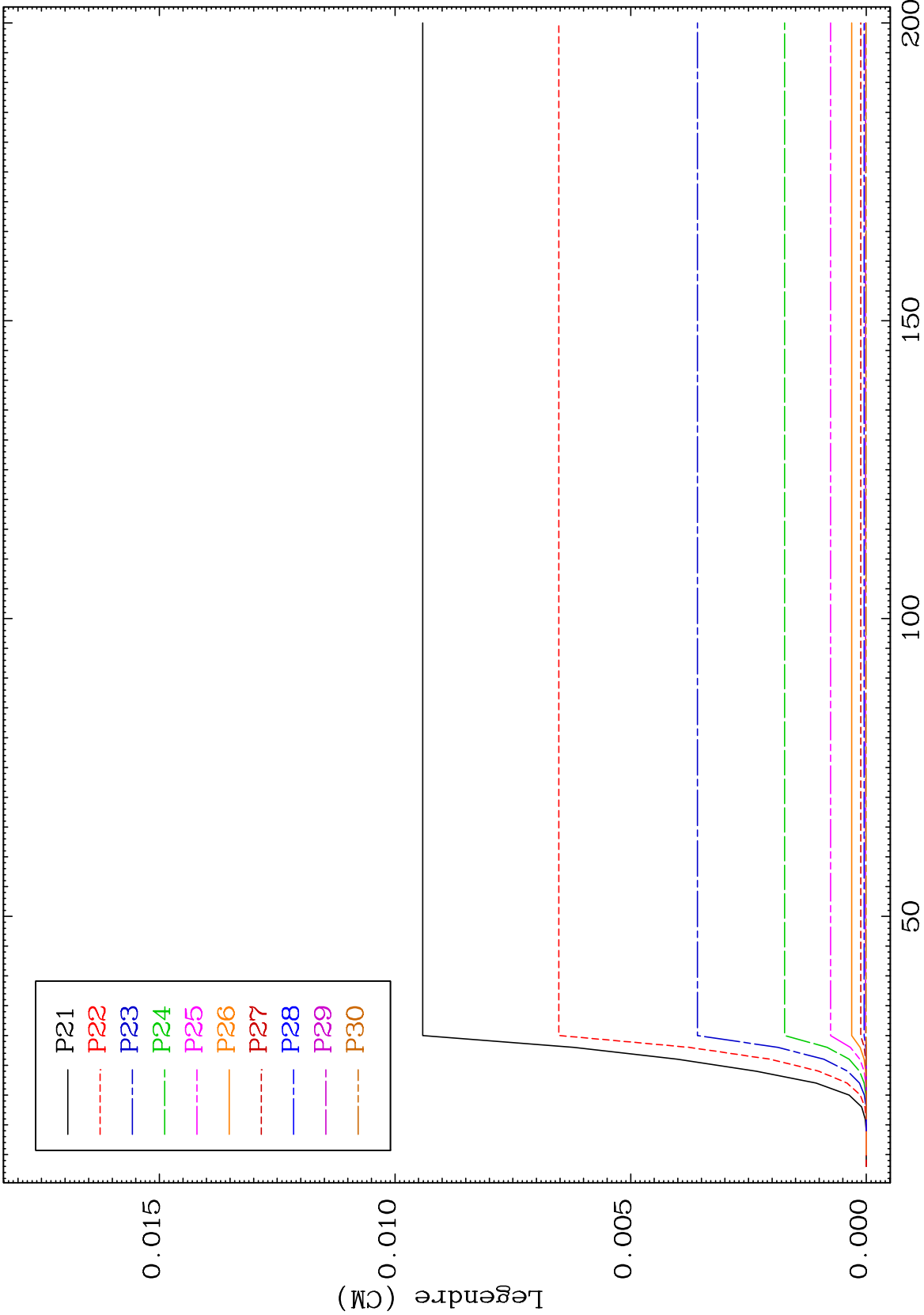
Incident Energy (MeV)

81-T1-199

MAT 8113

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

81-T1-199



110

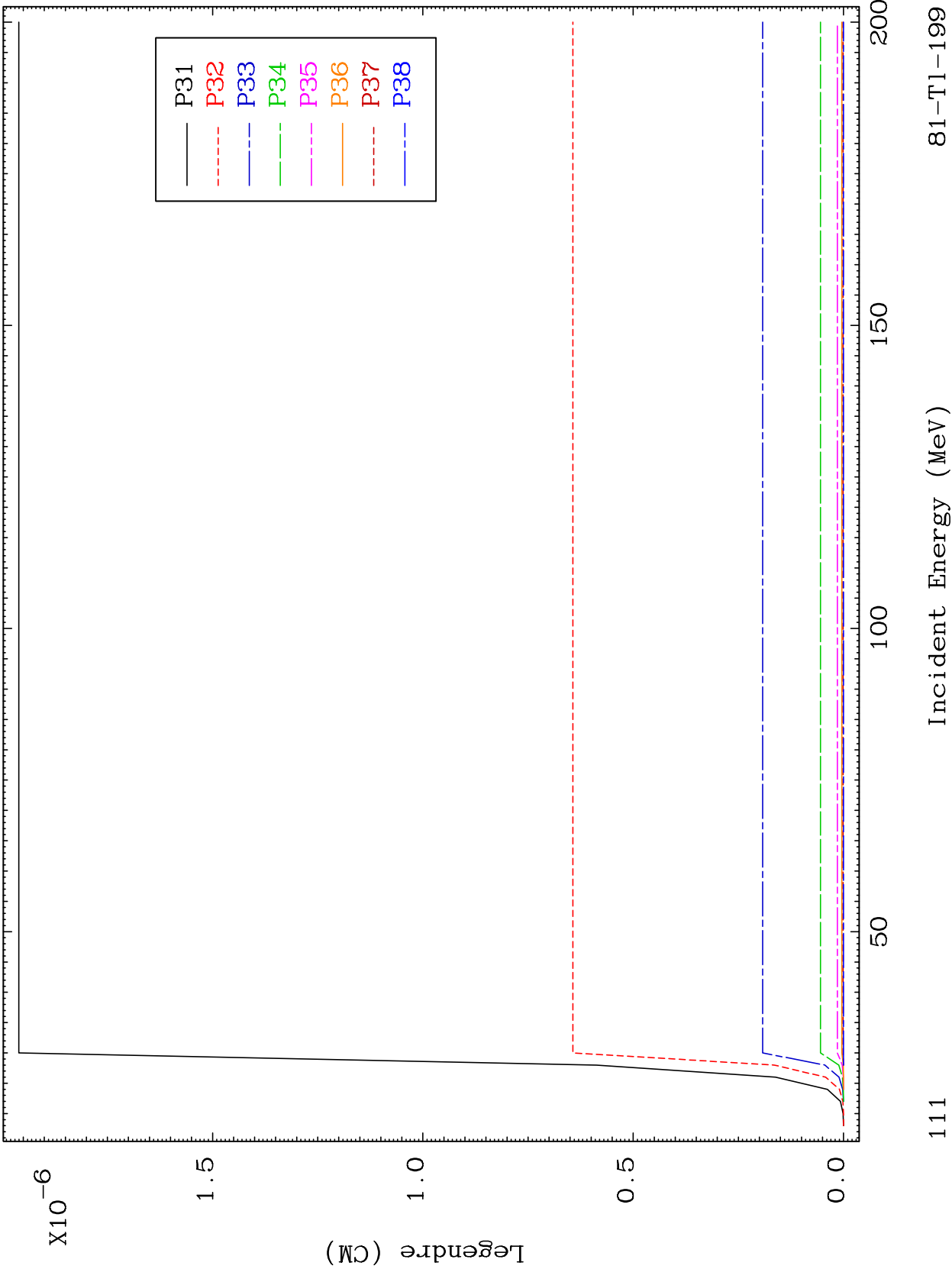
Incident Energy (MeV)

81-T1-199

MAT 81113

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

81-T1-199



111

Incident Energy (MeV)

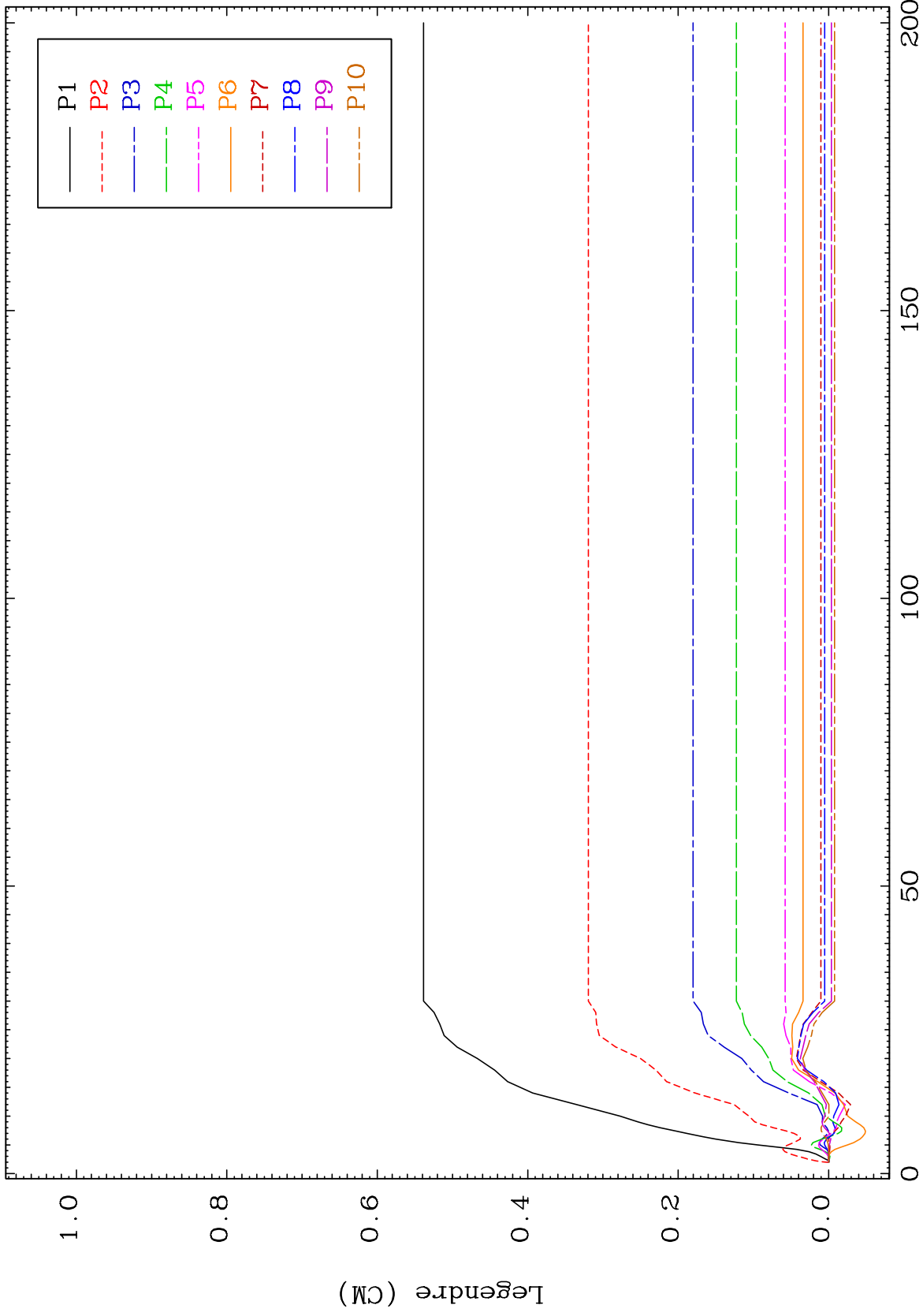
81-T1-199



MAT 81113

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

81-T1-199



81-T1-199

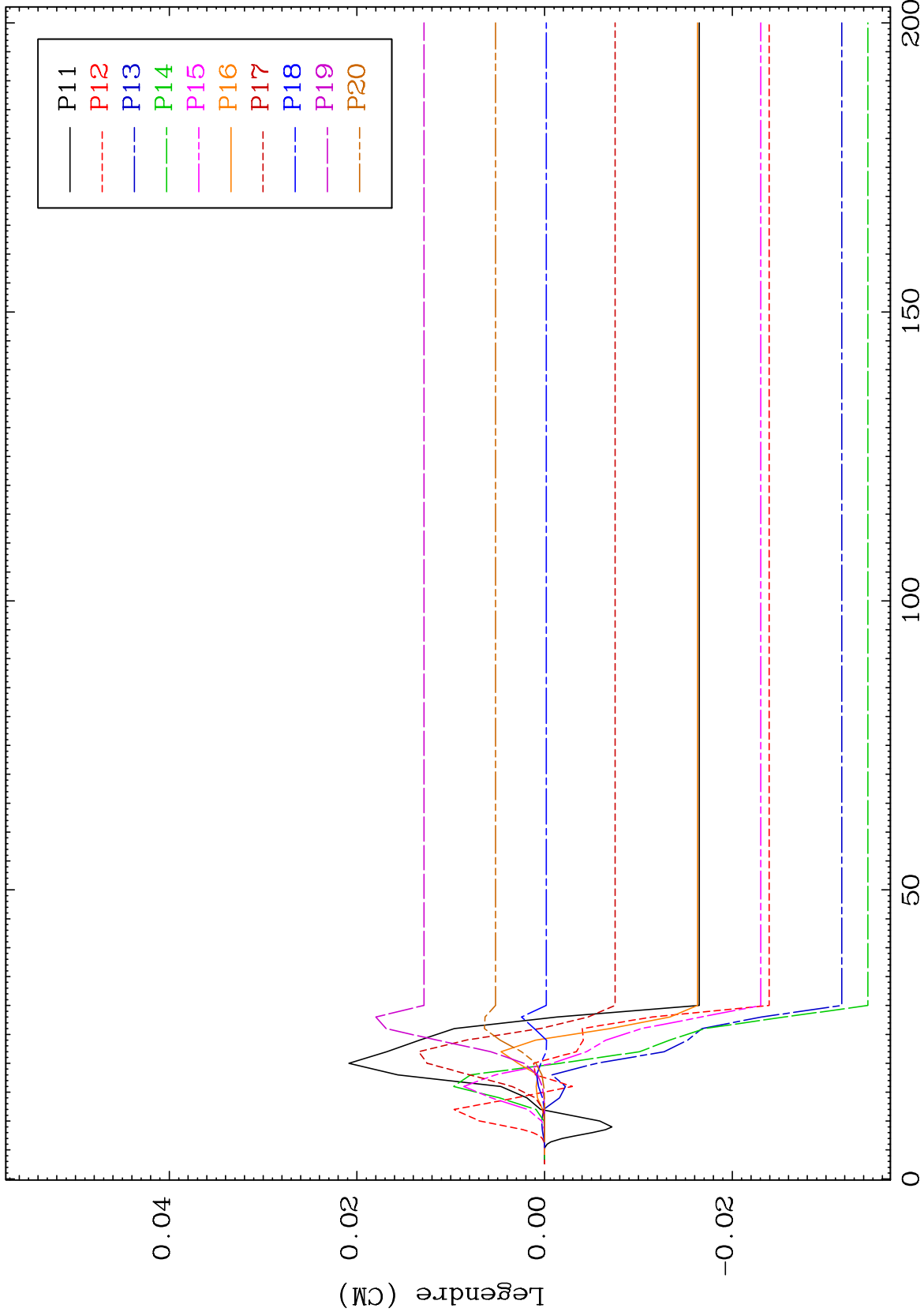
Incident Energy (MeV)

112

MAT 8113

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

81-T1-199



113

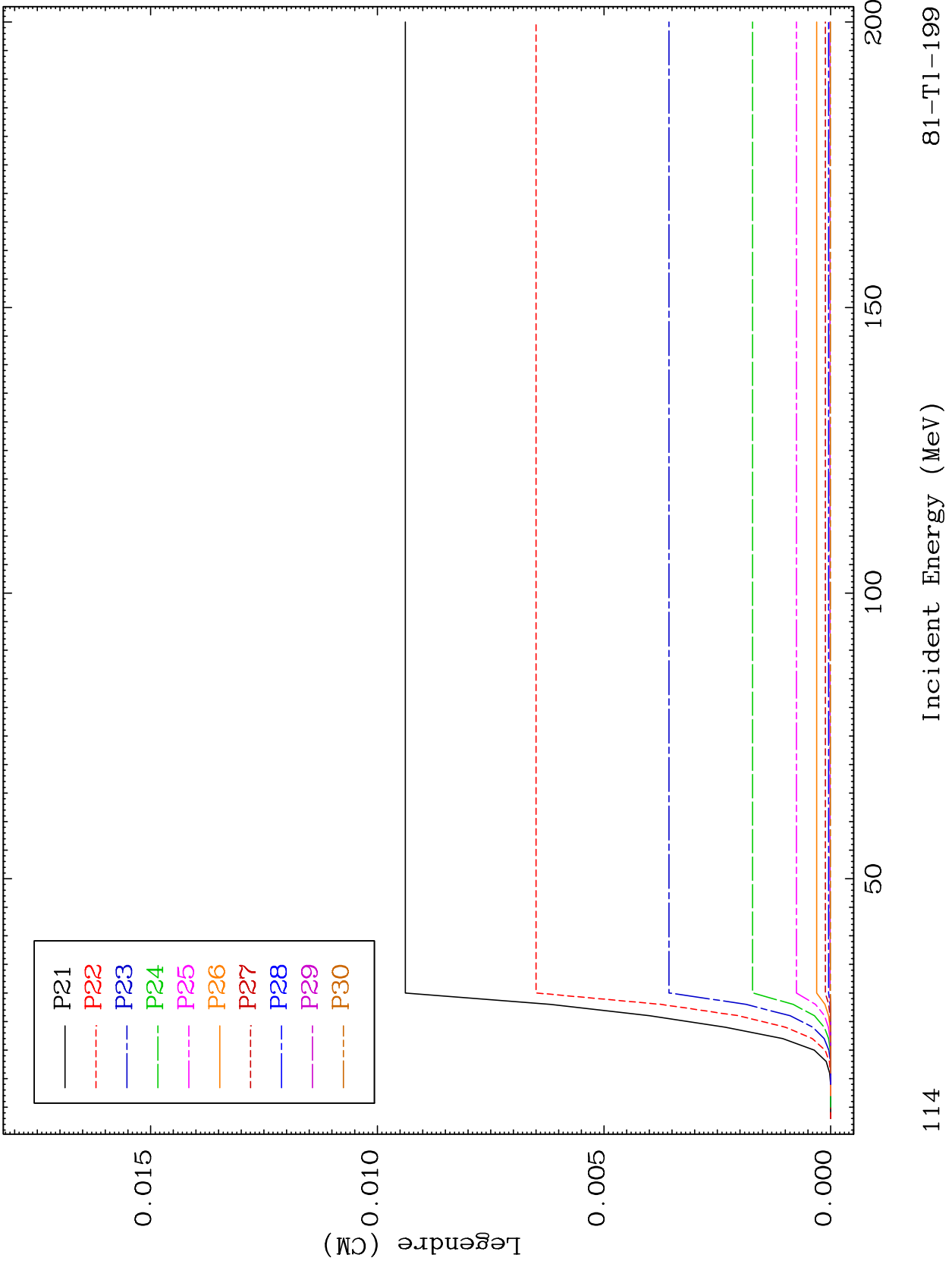
Incident Energy (MeV)

81-T1-199

MAT 8113

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

81-Tl-199



114

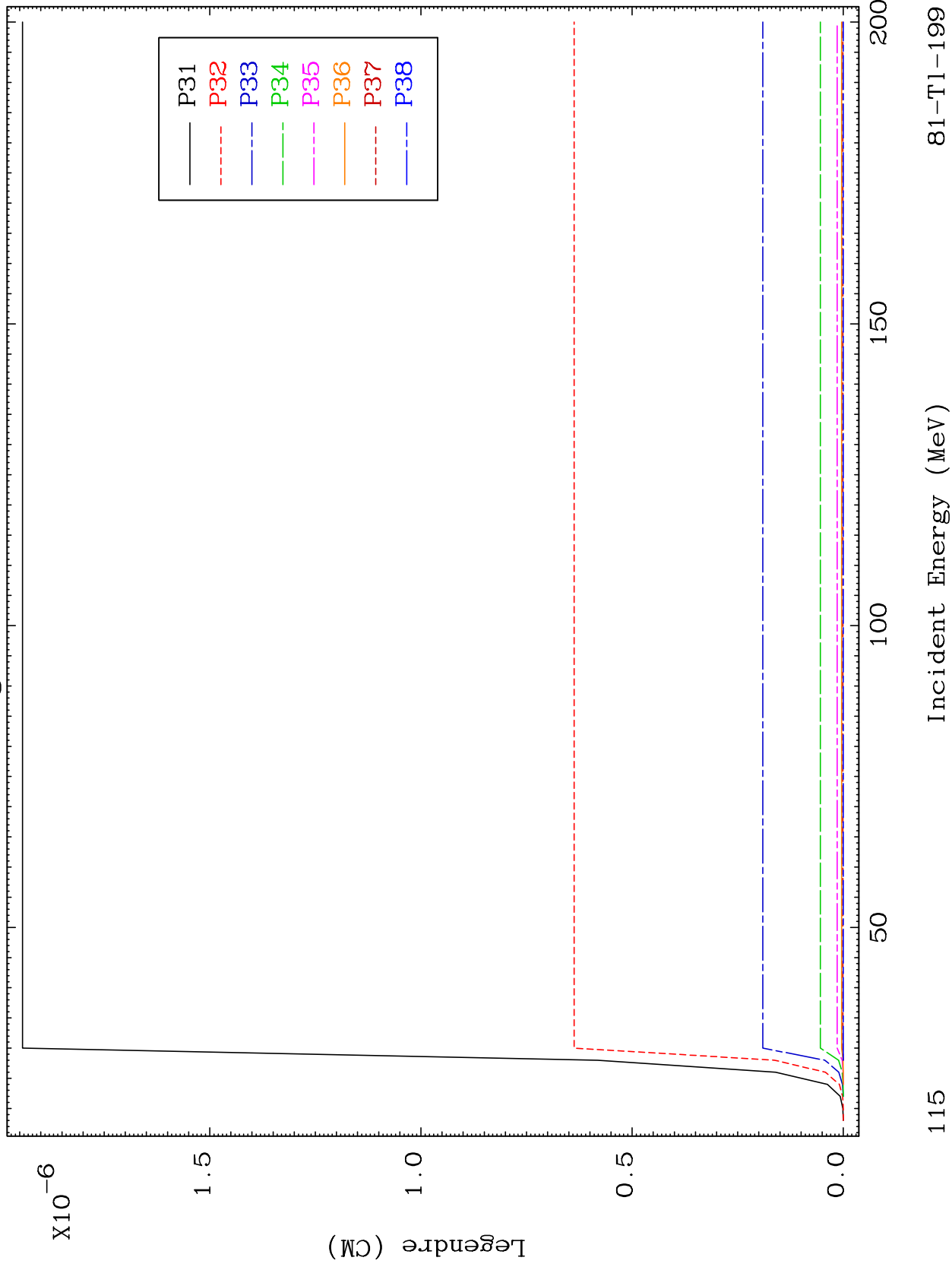
Incident Energy (MeV)

81-Tl-199

MAT 81113

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

81-T1-199

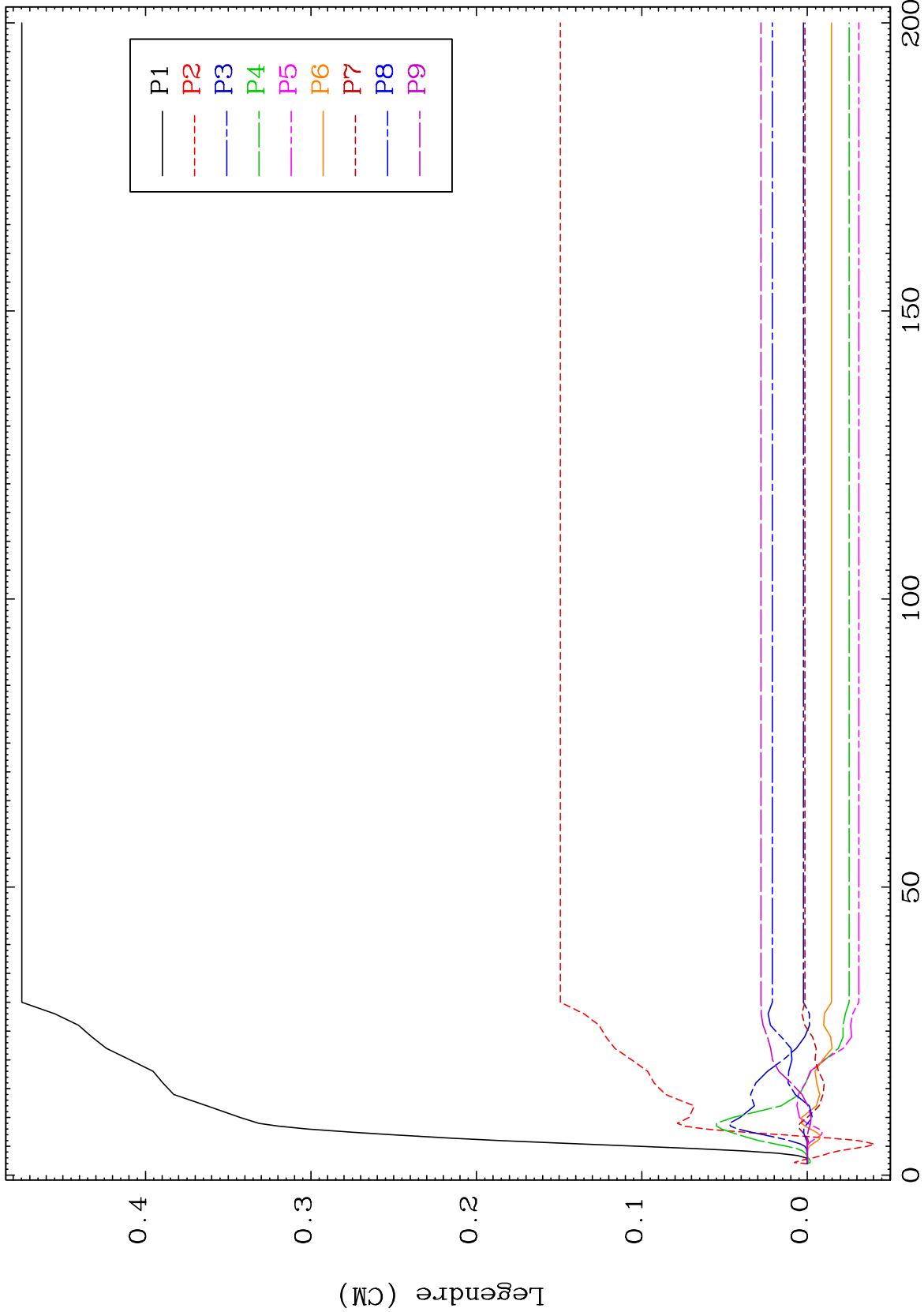


115

MAT 8113

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

81-T1-199



116

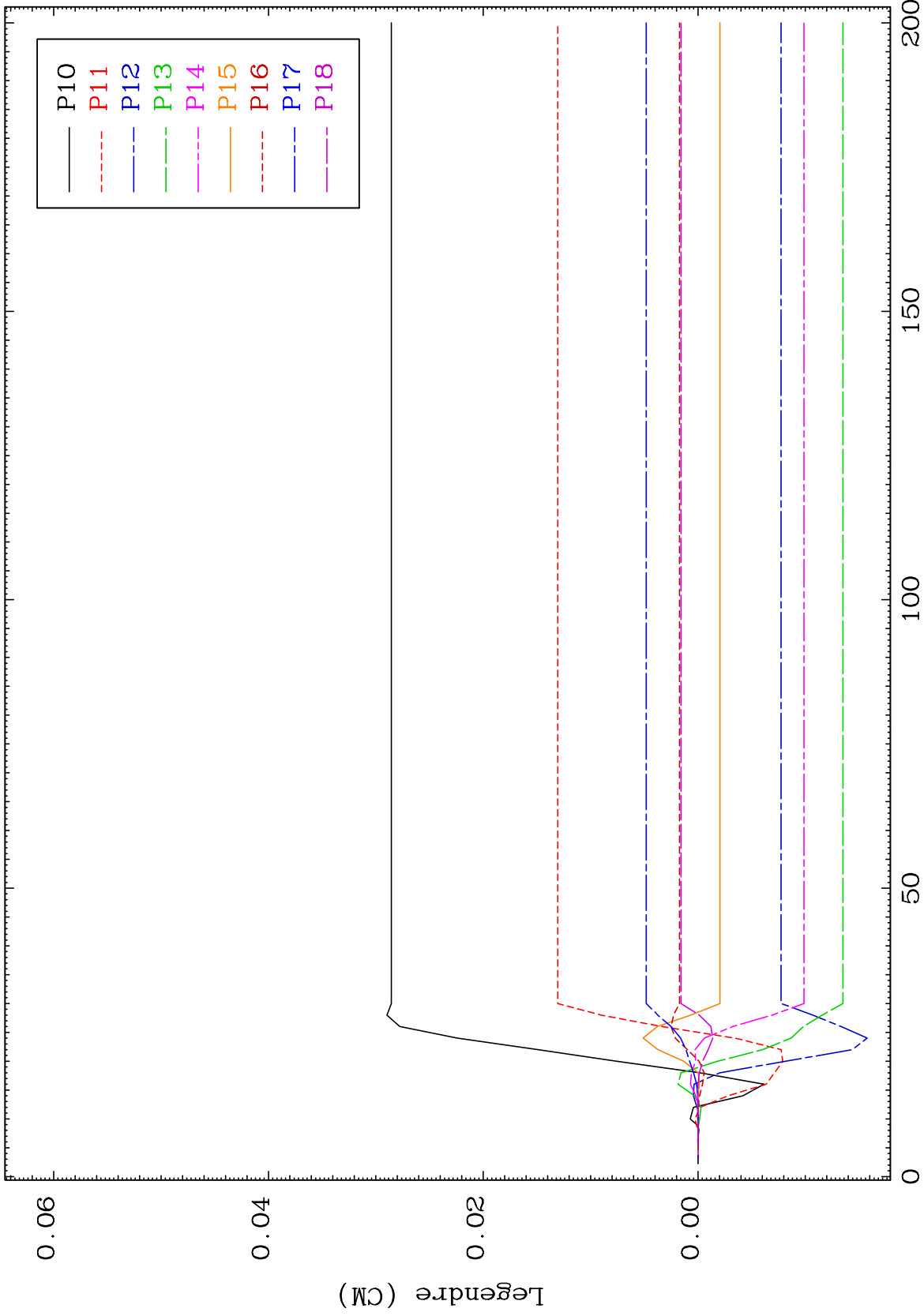
Incident Energy (MeV)

81-T1-199

MAT 81113

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

81-T1-199



117

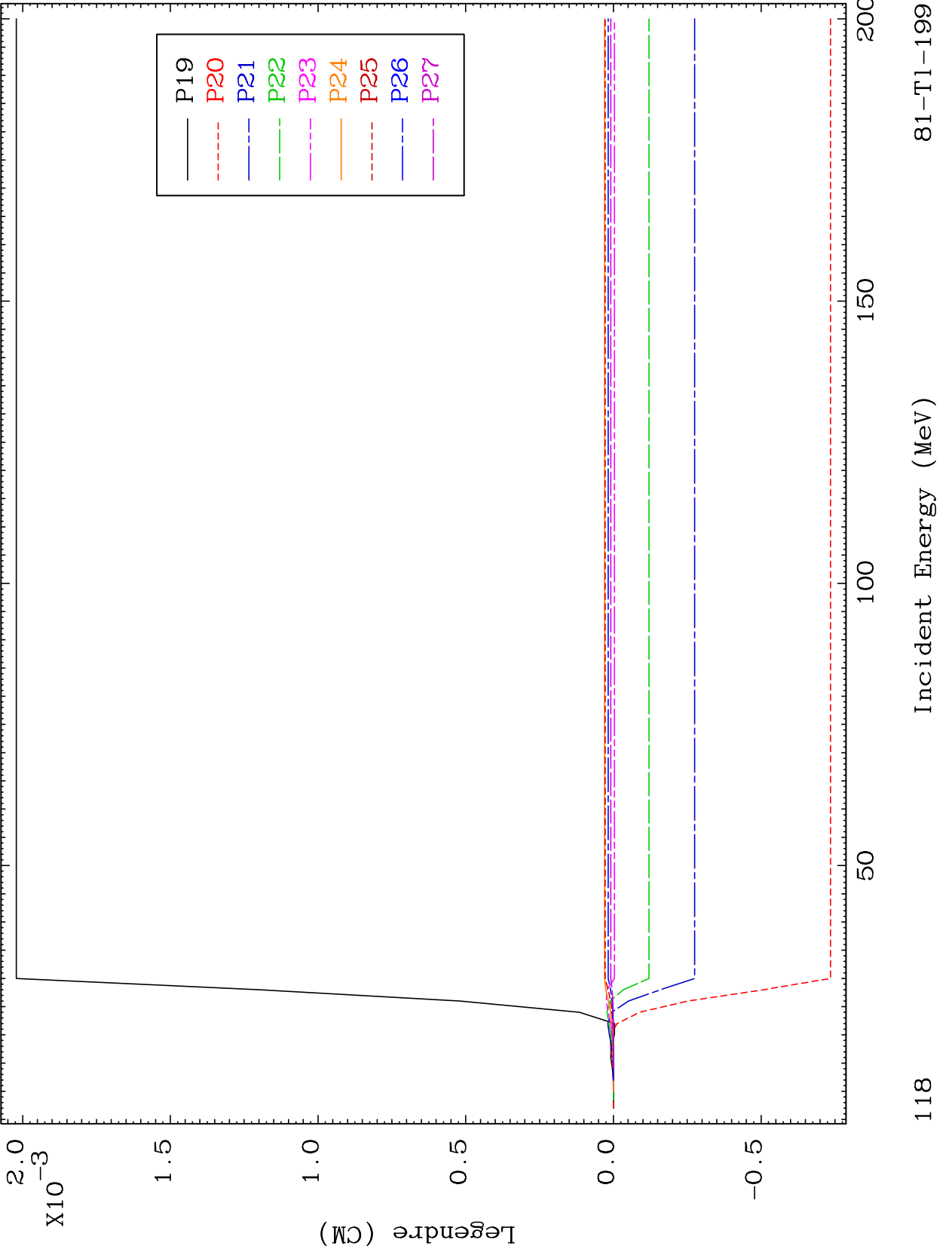
Incident Energy (MeV)

81-T1-199

MAT 81113

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

81-T1-199



118

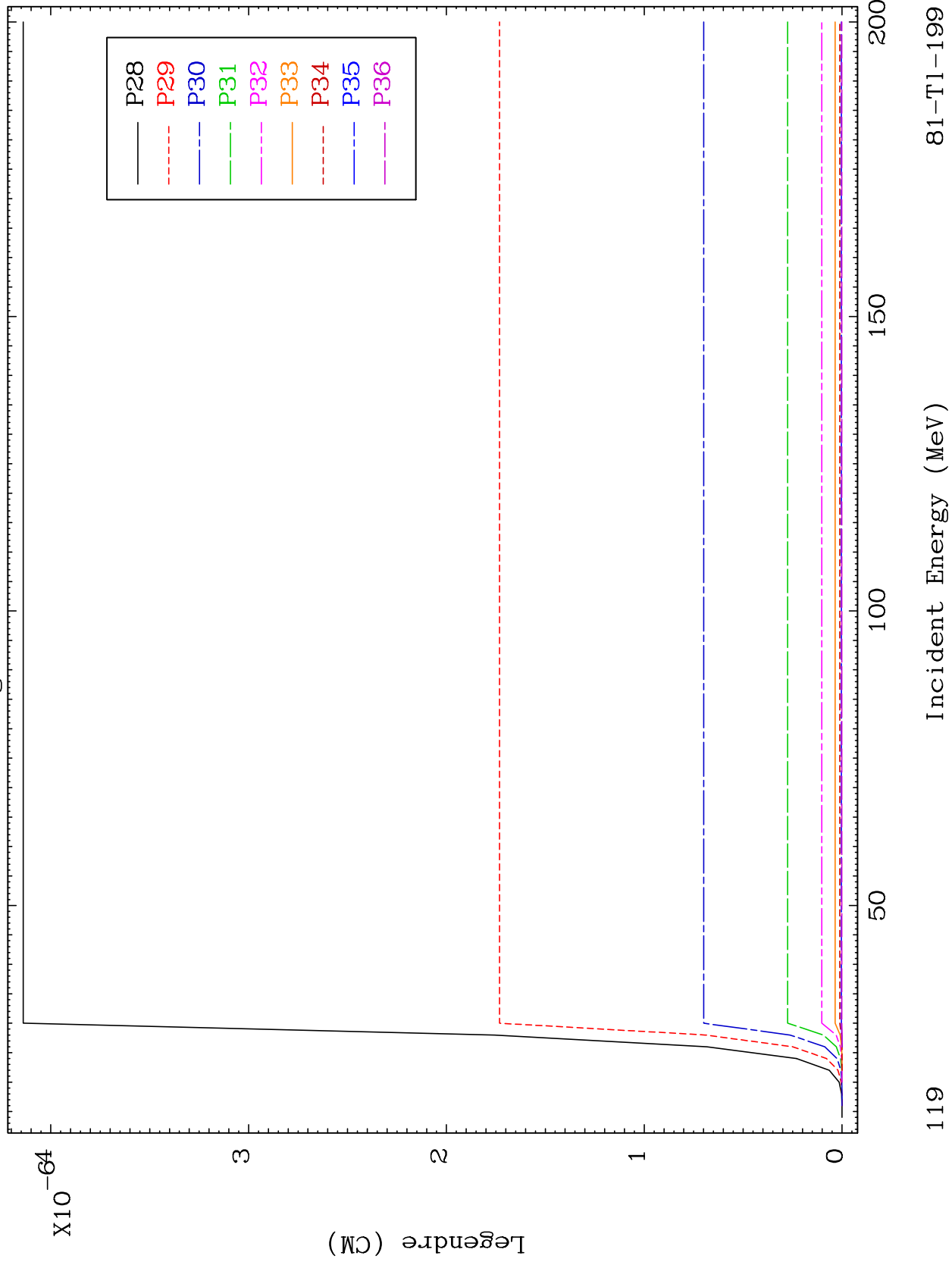
Incident Energy (MeV)

81-T1-199

MAT 81113

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

81-T1-199

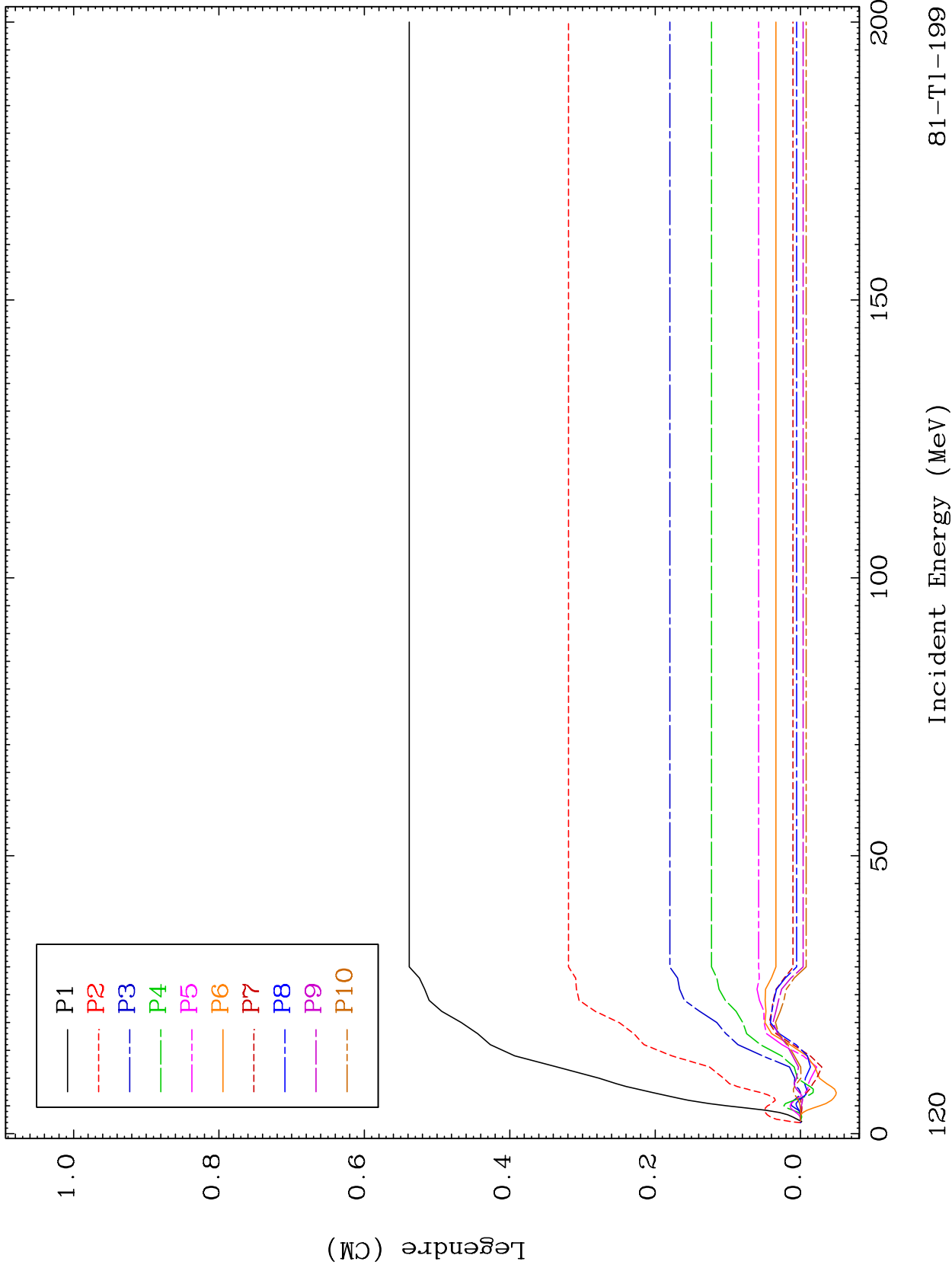




MAT 81113

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

81-T1-199



81-T1-199

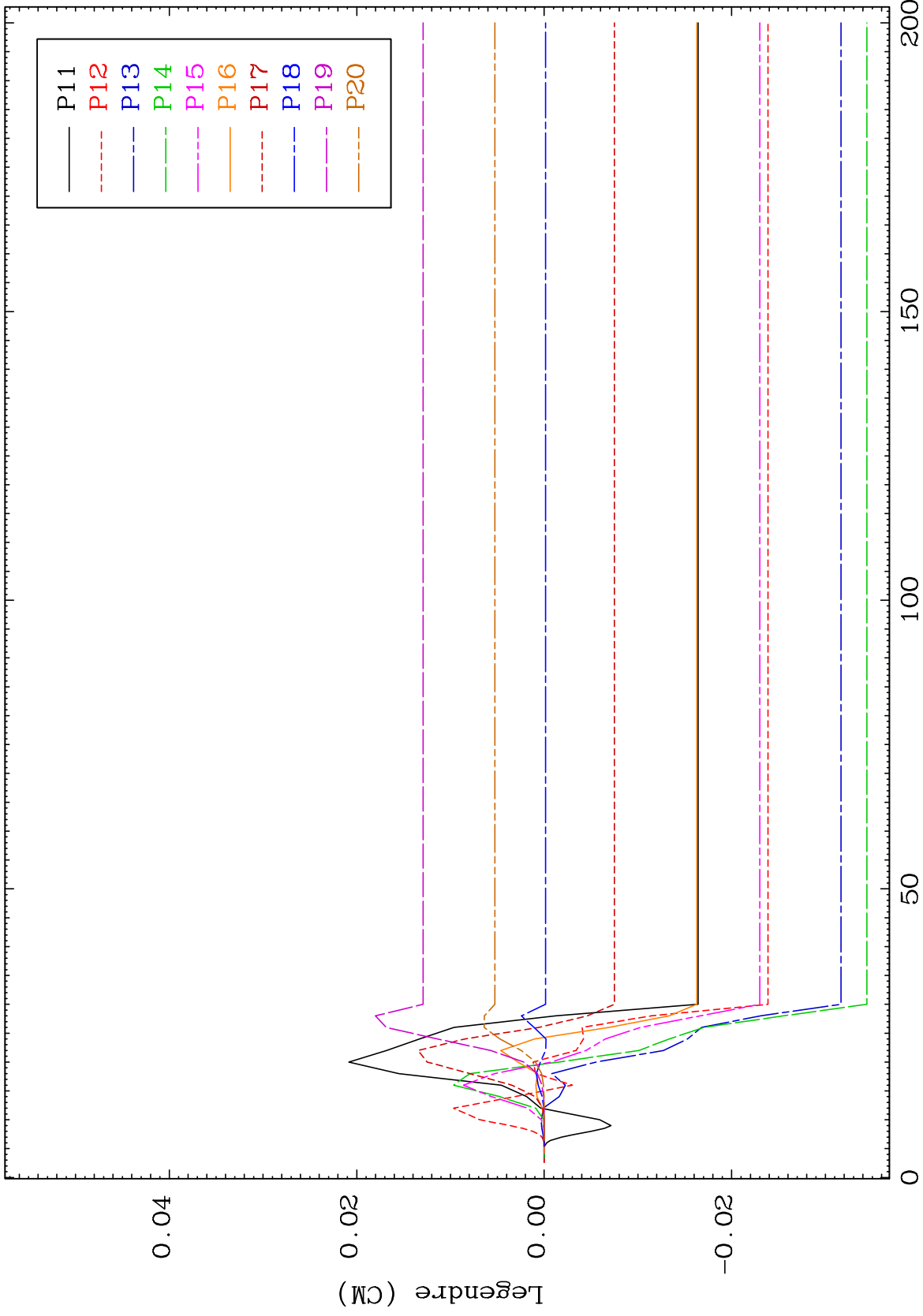
Incident Energy (MeV)

120

MAT 81113

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

81-T1-199



121

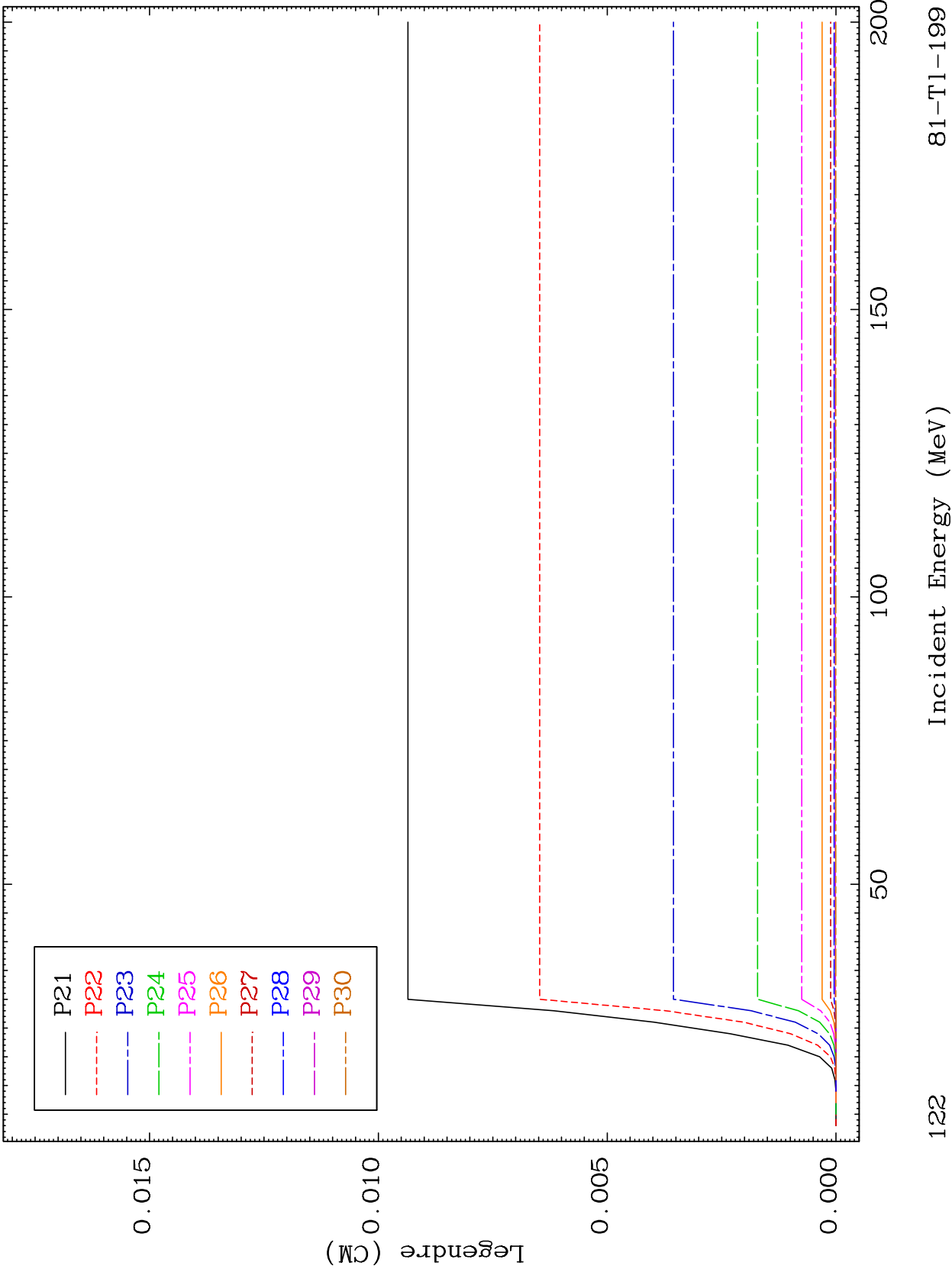
Incident Energy (MeV)

81-T1-199

MAT 8113

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

81-T1-199



122

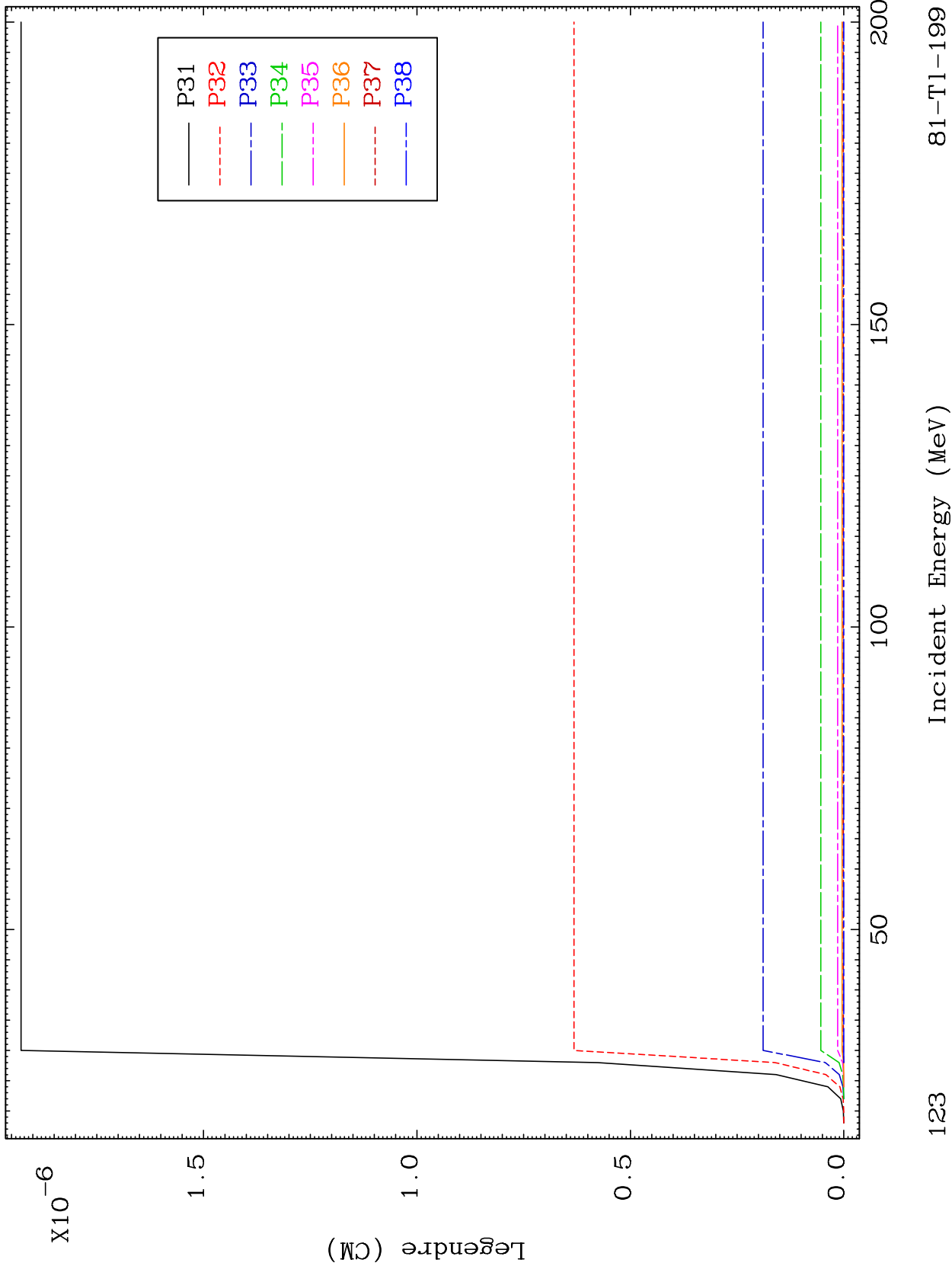
Incident Energy (MeV)

81-T1-199

MAT 81113

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

81-T1-199



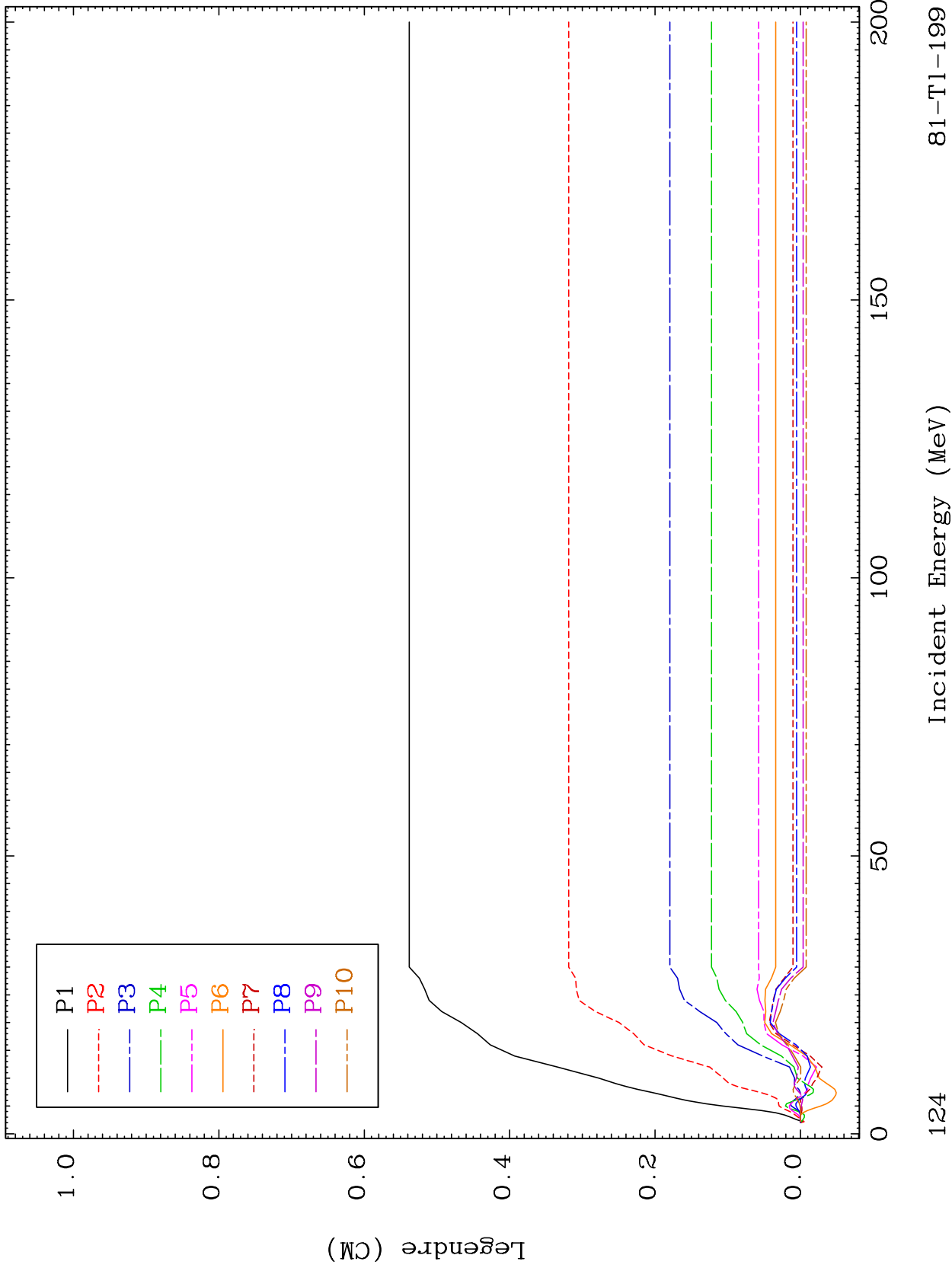
123

81-T1-199

MAT 81113

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

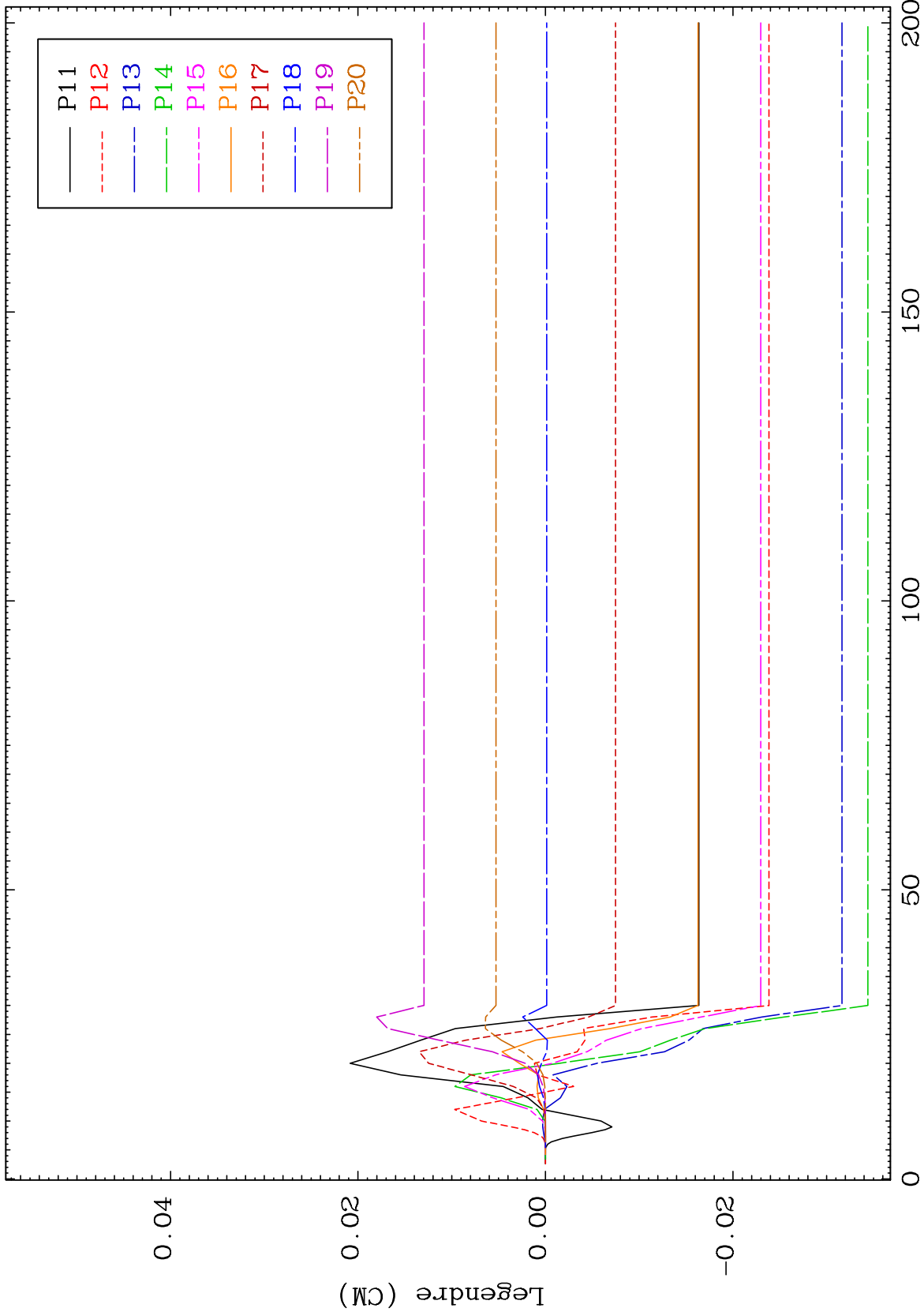
81-T1-199



MAT 81113

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

81-T1-199



125

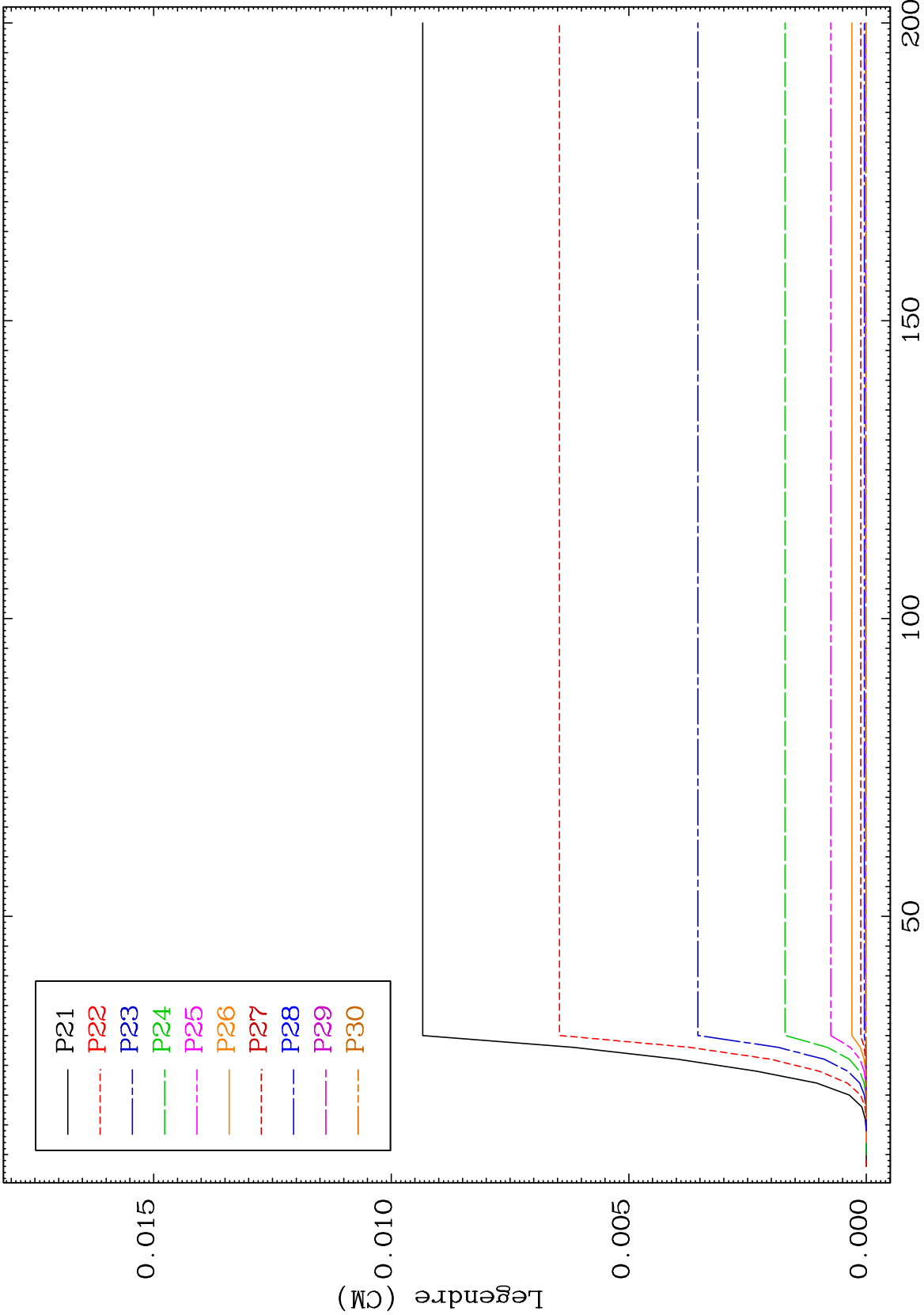
Incident Energy (MeV)

81-T1-199

MAT 8113

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

81-T1-199



126

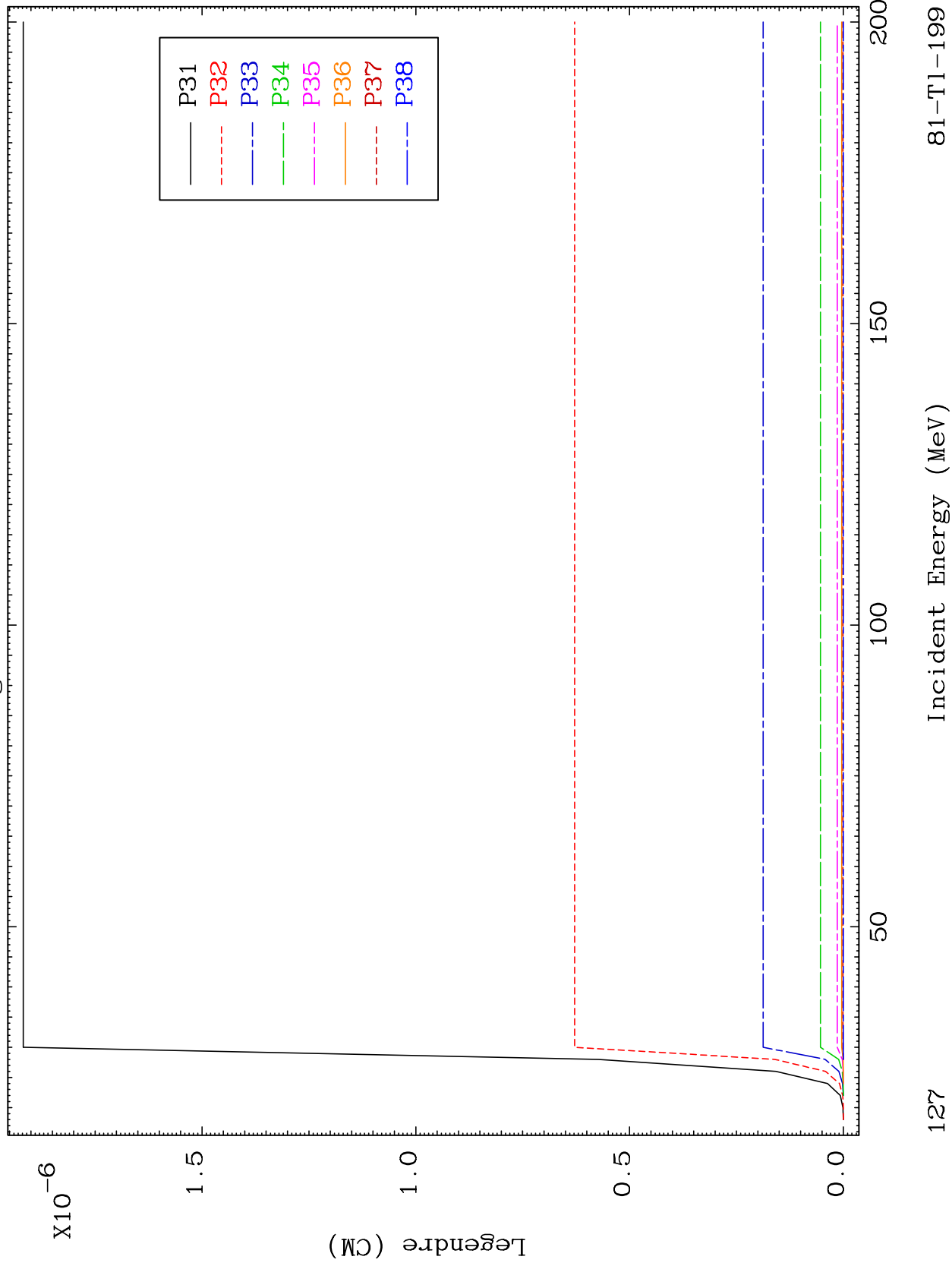
Incident Energy (MeV)

81-T1-199

MAT 81113

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

81-T1-199



127

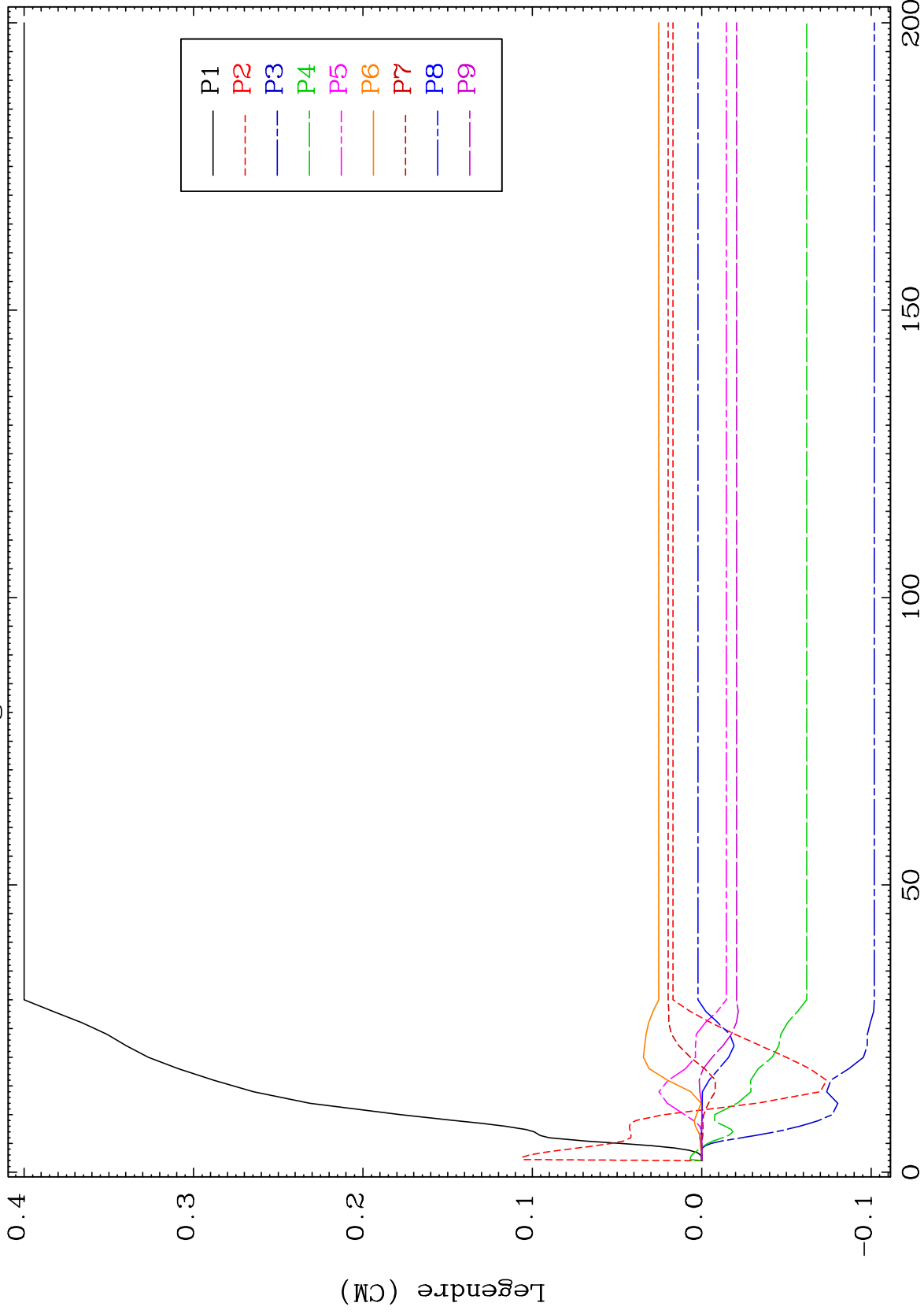
81-T1-199



MAT 81113

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

81-T1-199



81-T1-199

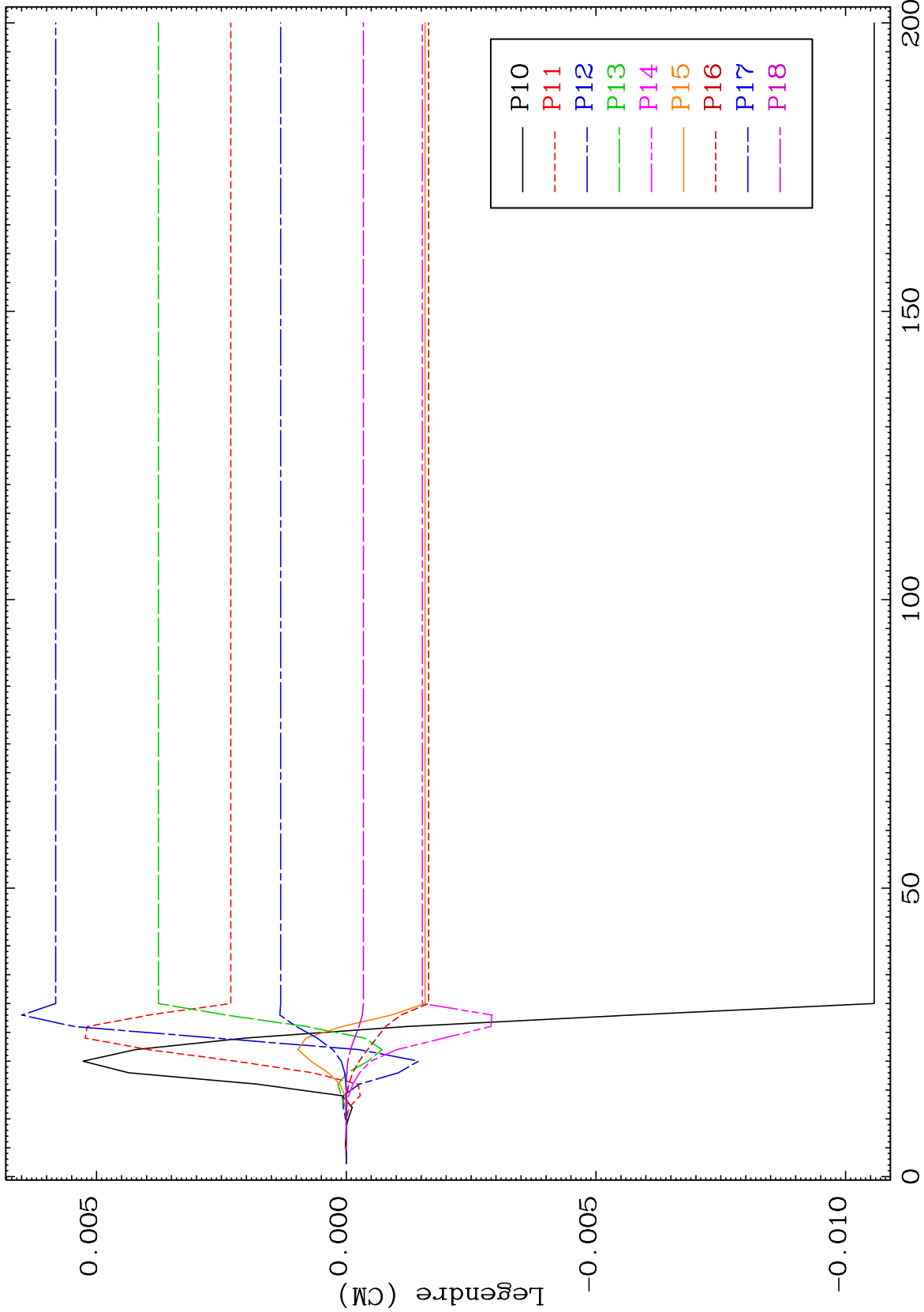
Incident Energy (MeV)

128

MAT 81113

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

81-T1-199



129

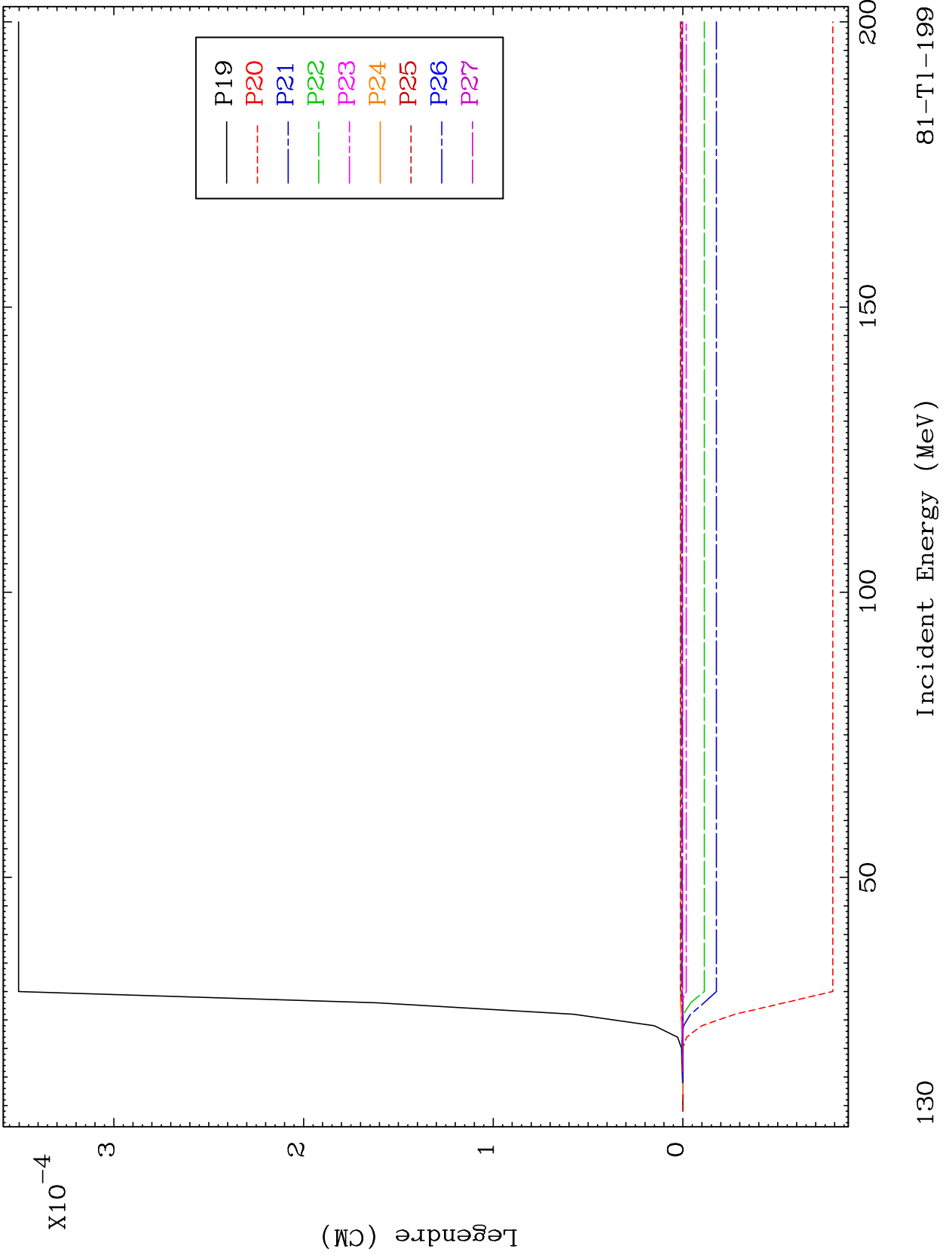
Incident Energy (MeV)

81-T1-199

MAT 81113

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

81-T1-199

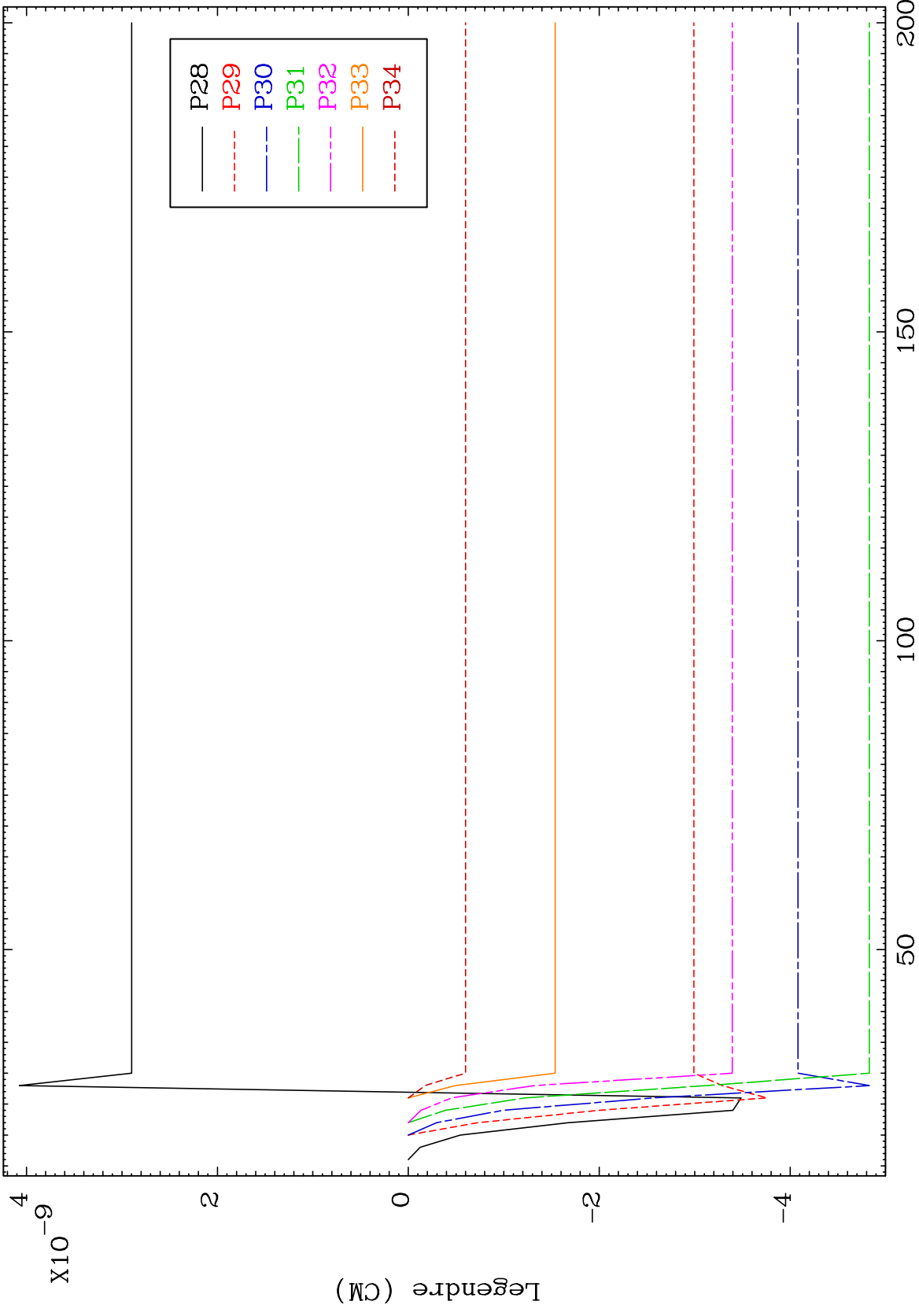


130

MAT 8113

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

81-T1-199



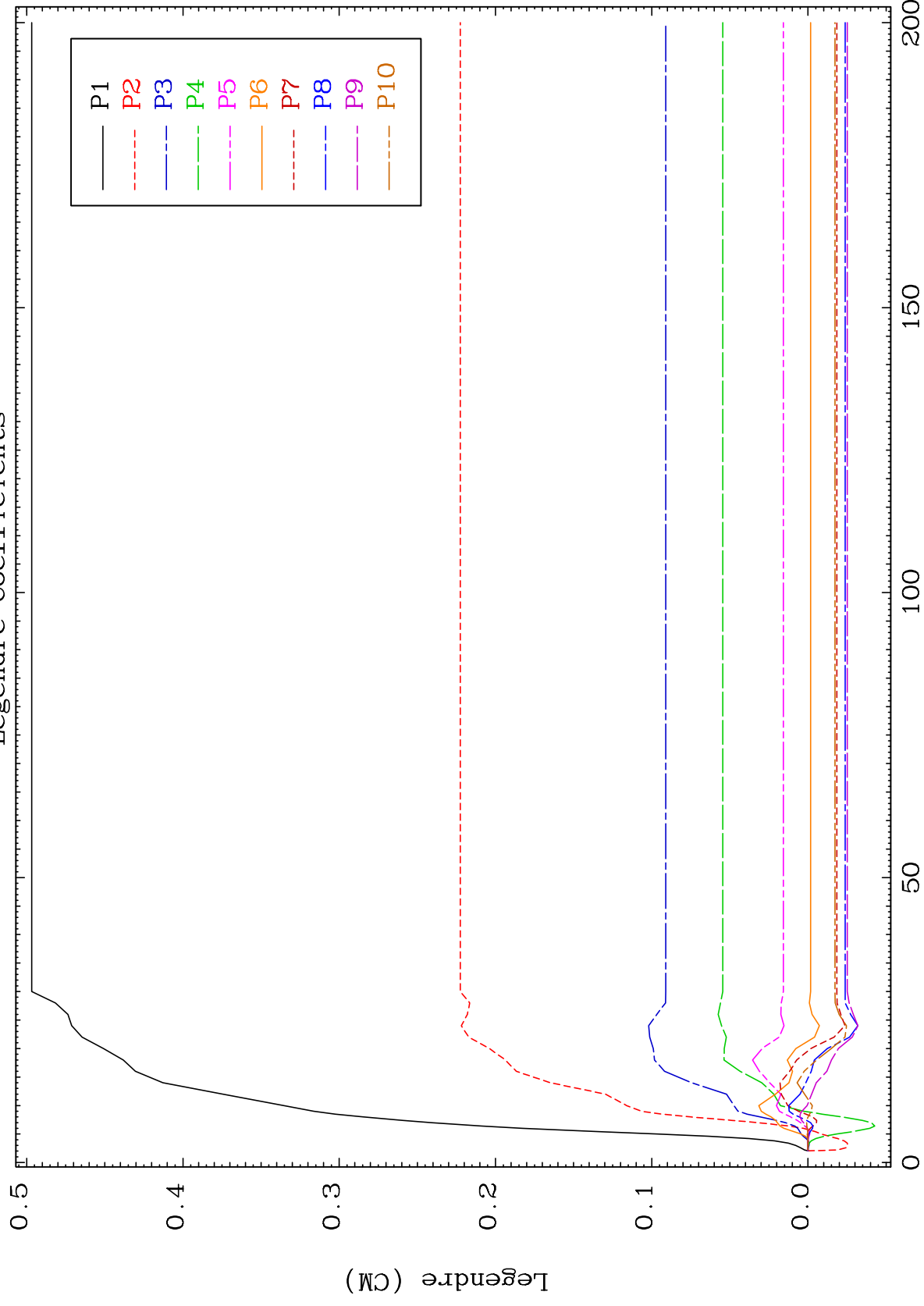
131

81-T1-199

MAT 81113

MT= 79 (n,n') Level  
Legendre Coefficients

81-T1-199



Incident Energy (MeV)

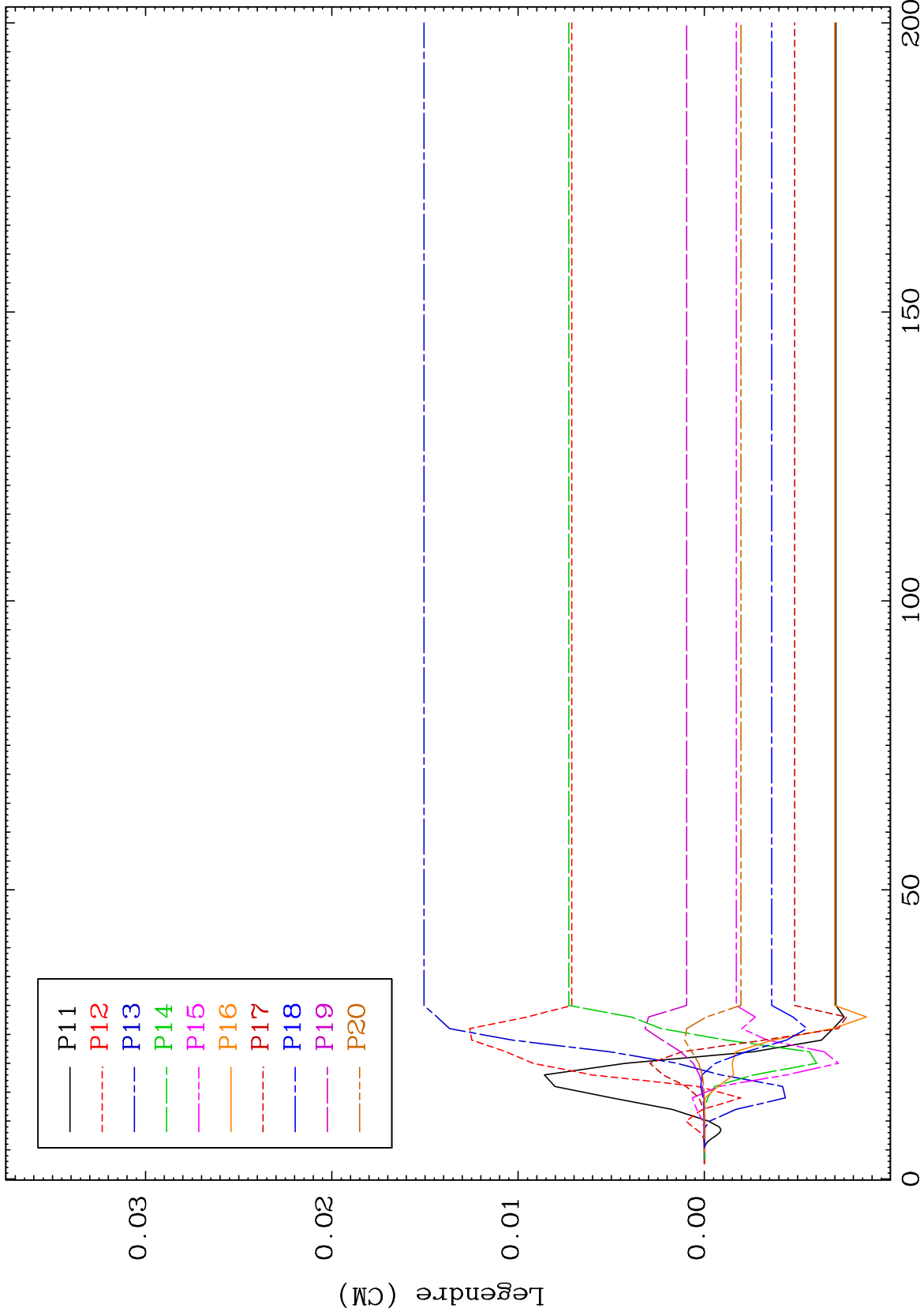
81-T1-199

132

MAT 8113

MT= 79 (n,n') Level  
Legendre Coefficients

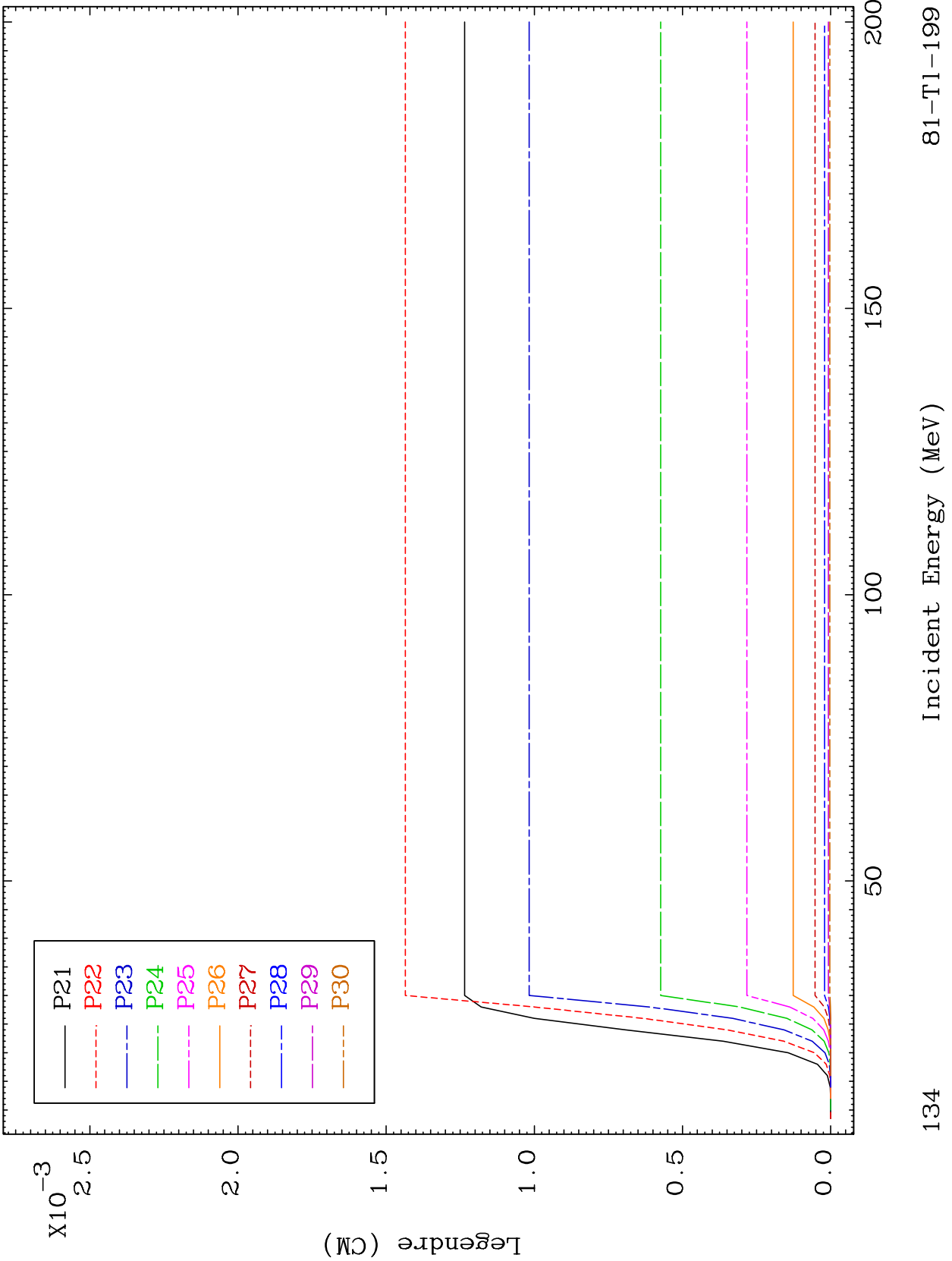
81-T1-199



133

Incident Energy (MeV)

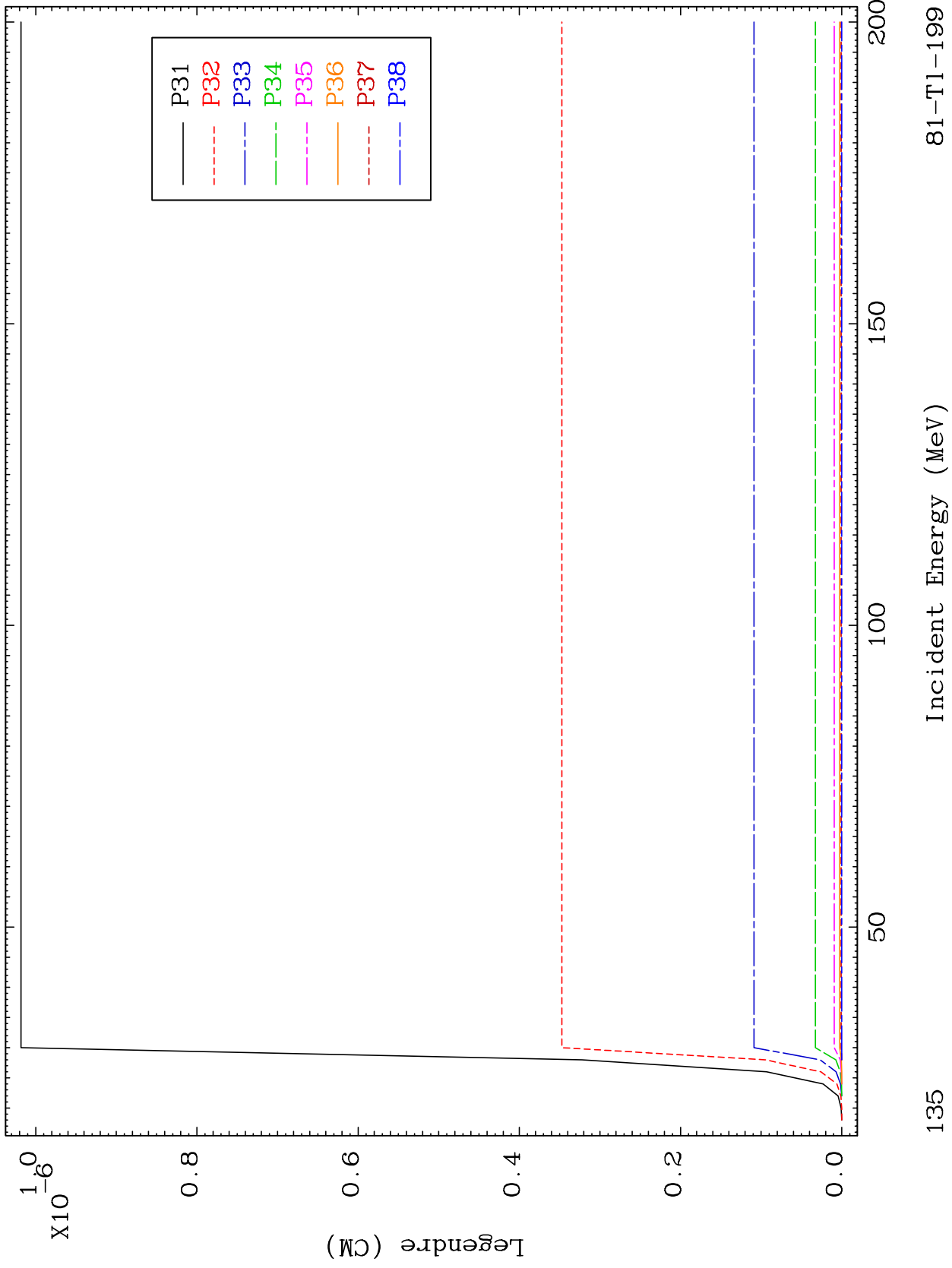
81-T1-199



MAT 81113

MT= 79 (n,n') Level  
Legendre Coefficients

81-Tl-199



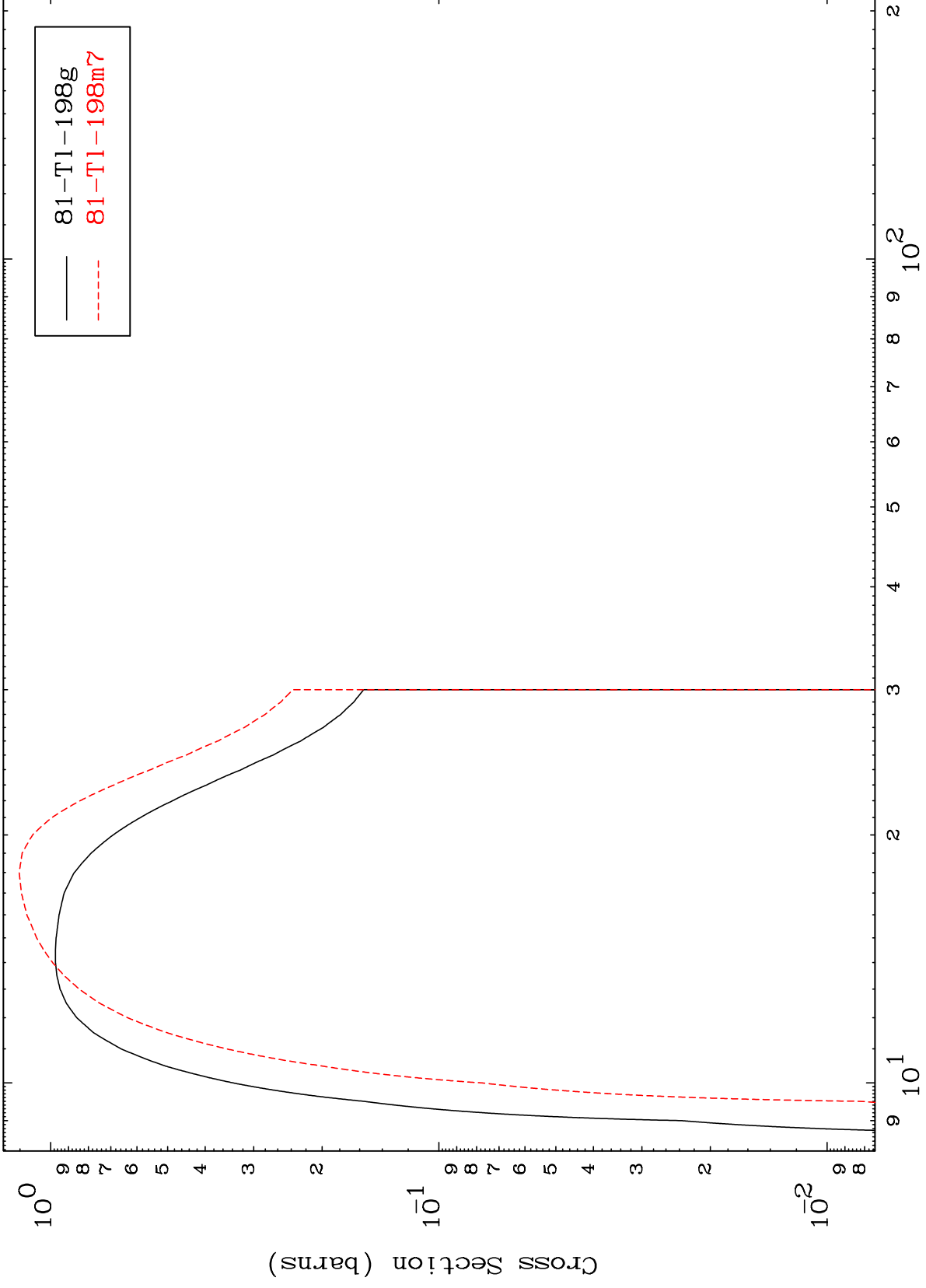


MAT 81113

81-Tl-199

(n,2n)

Radionuclide Production Cross Section



136

Incident Energy (MeV)

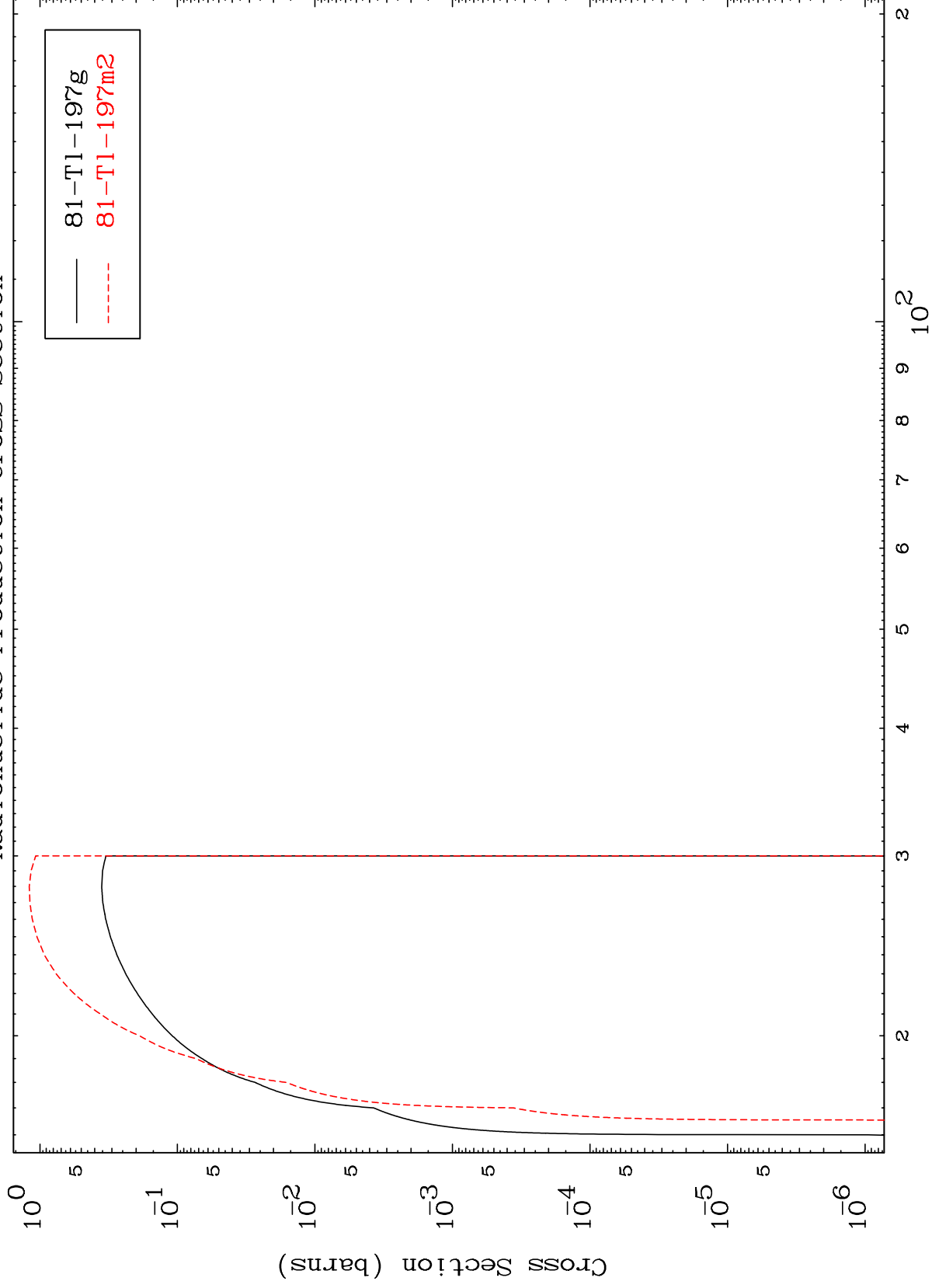
81-Tl-199

MAT 81113

(n,3n)

81-Tl-199

Radionuclide Production Cross Section



137

Incident Energy (MeV)

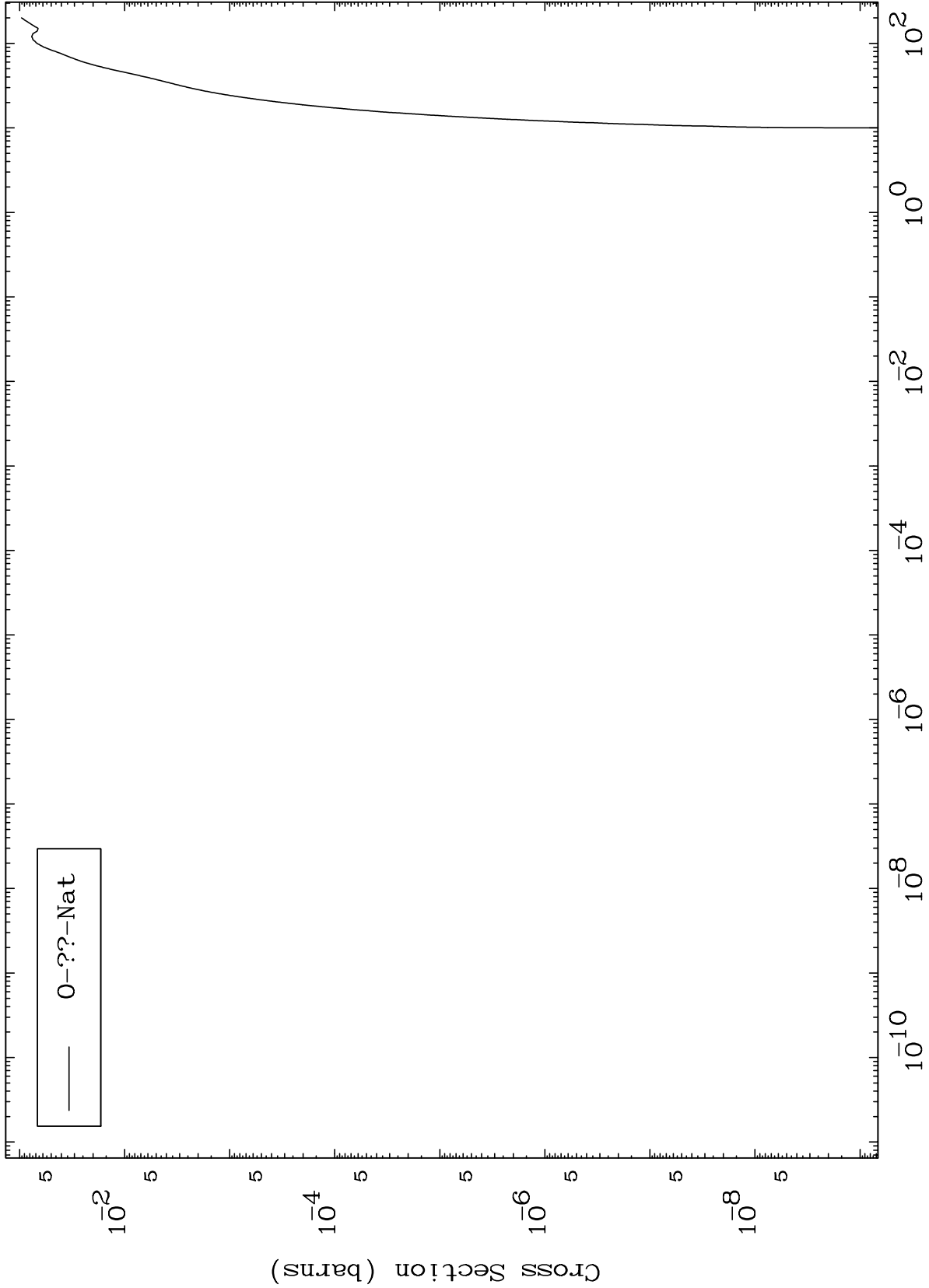
81-Tl-199

MAT 8113

Fission

81-Tl-199

Radionuclide Production Cross Section



138

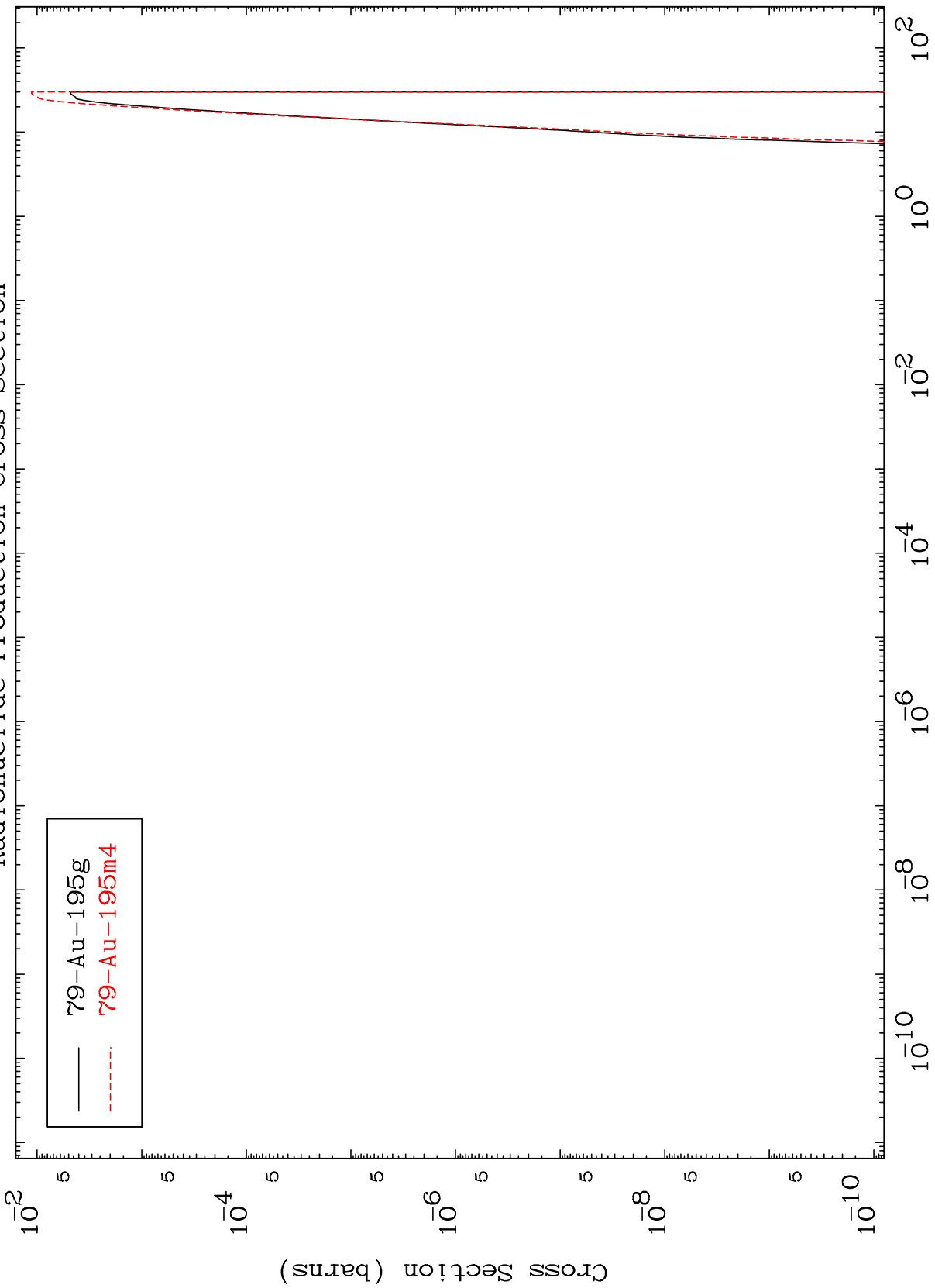
81-Tl-199

MAT 8113

$(n, n') \alpha$

81-Tl-199

Radionuclide Production Cross Section



—  $^{195g}\text{Au}$   
- - -  $^{195m4}\text{Au}$

139

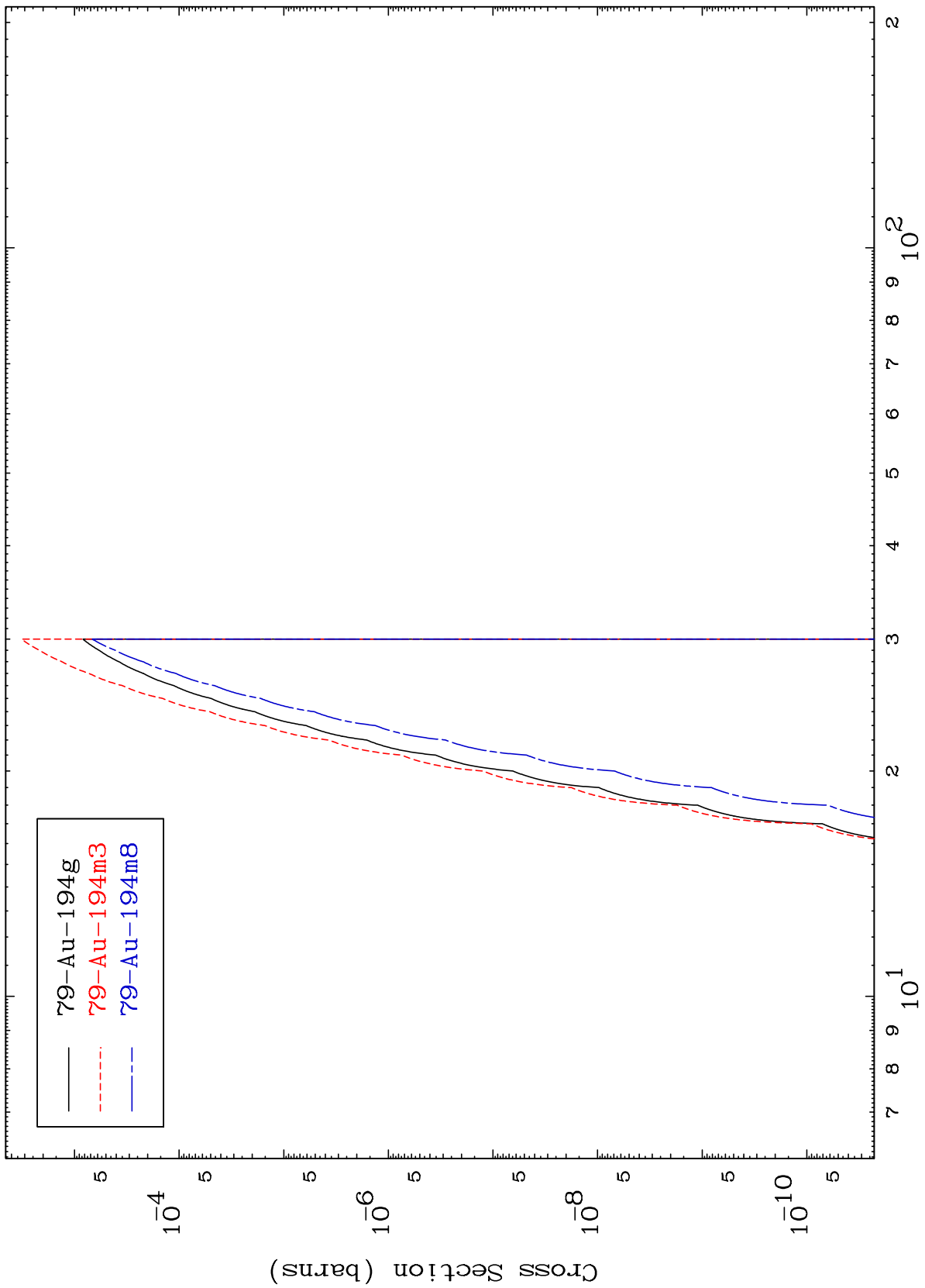
Incident Energy (MeV)

81-Tl-199

MAT 8113

81-T1-199

(n,2n)  $\alpha$   
Radionuclide Production Cross Section



— <sup>79</sup>Au-194g  
- - - <sup>79</sup>Au-194m3  
- · - <sup>79</sup>Au-194m8

140

Incident Energy (MeV)

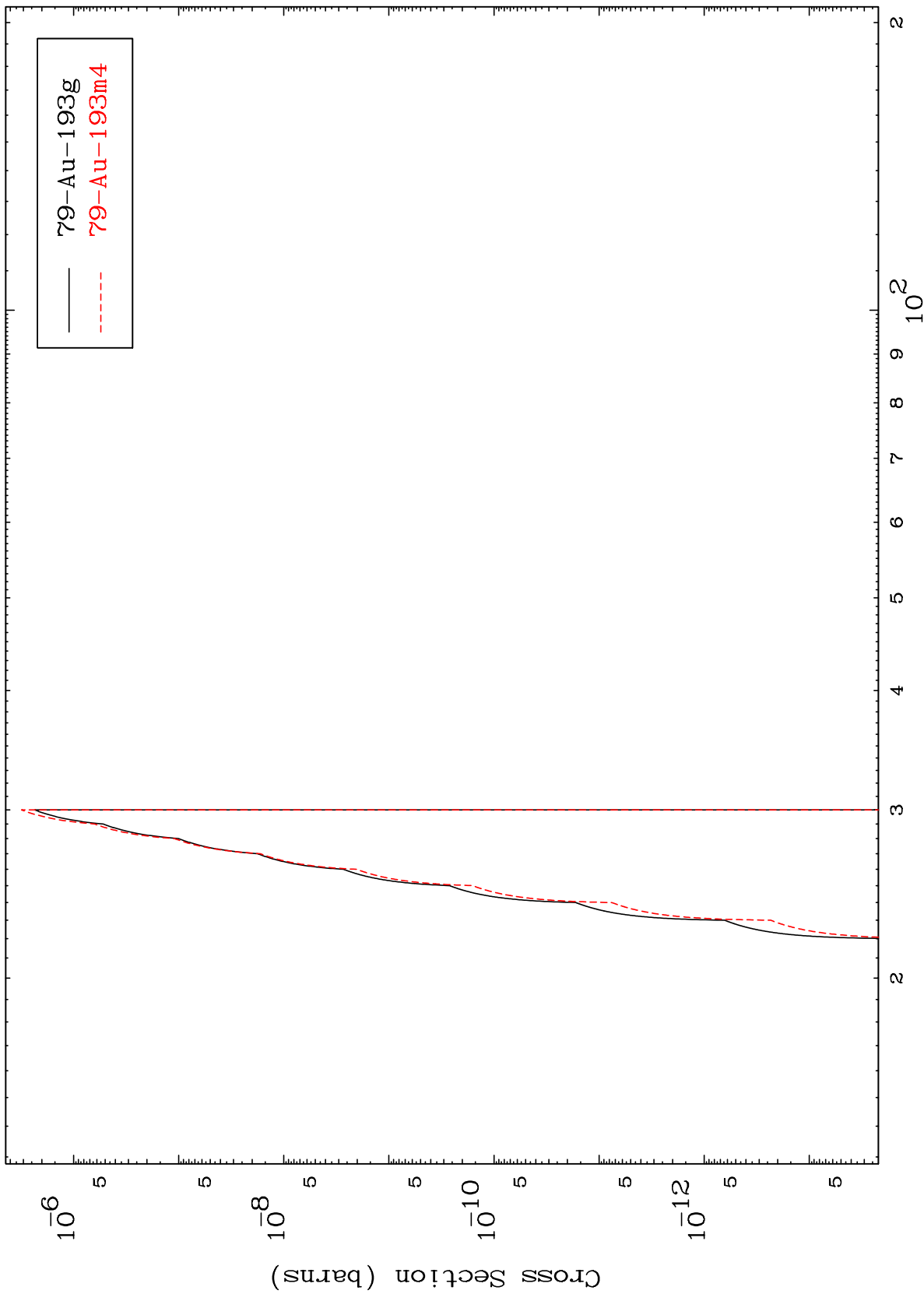
81-T1-199

MAT 81113

(n,3n)  $\alpha$

81-Tl-199

Radionuclide Production Cross Section



141

Incident Energy (MeV)

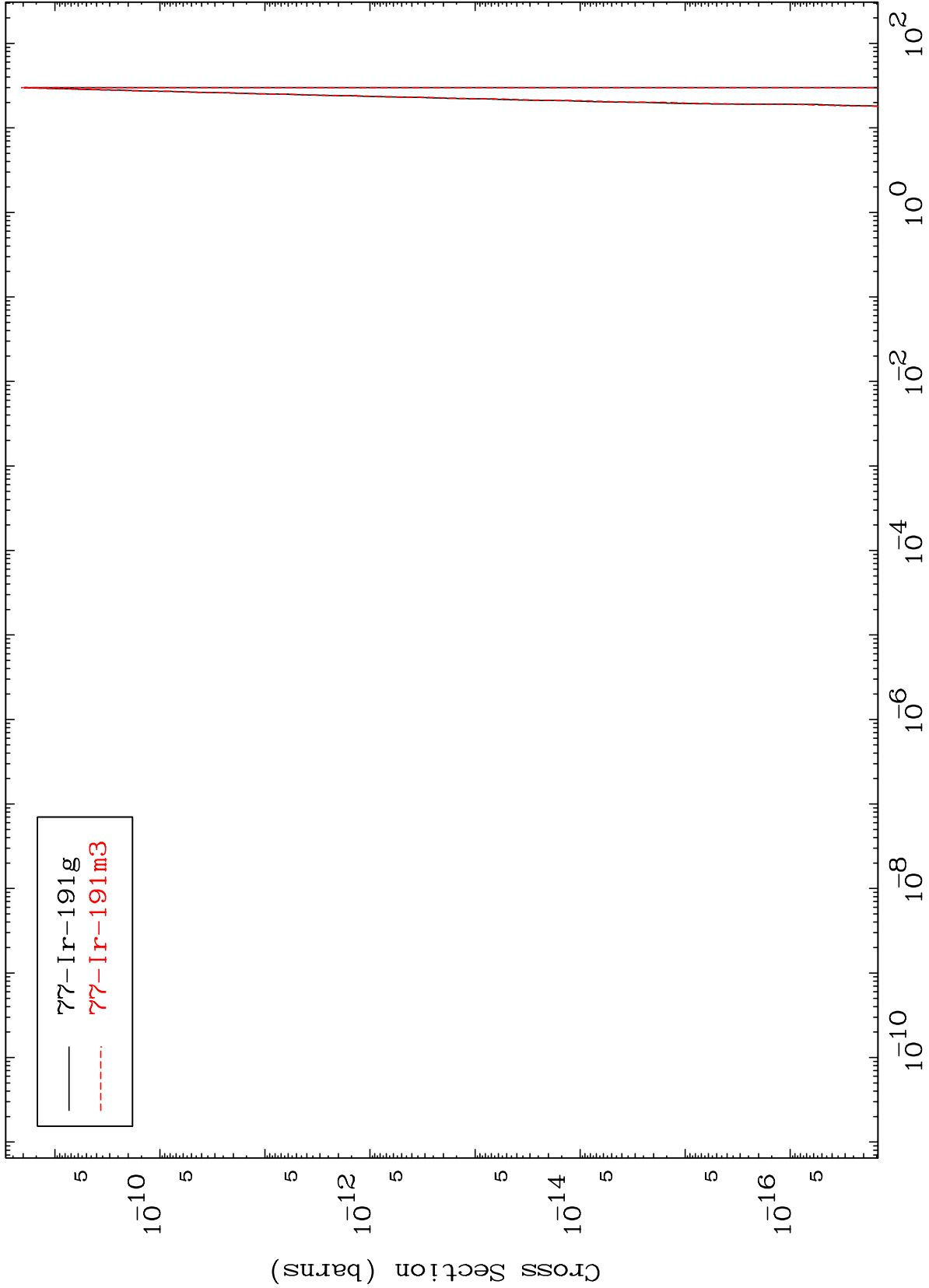
81-Tl-199

MAT 81113

(n,n') 2α

81-T1-199

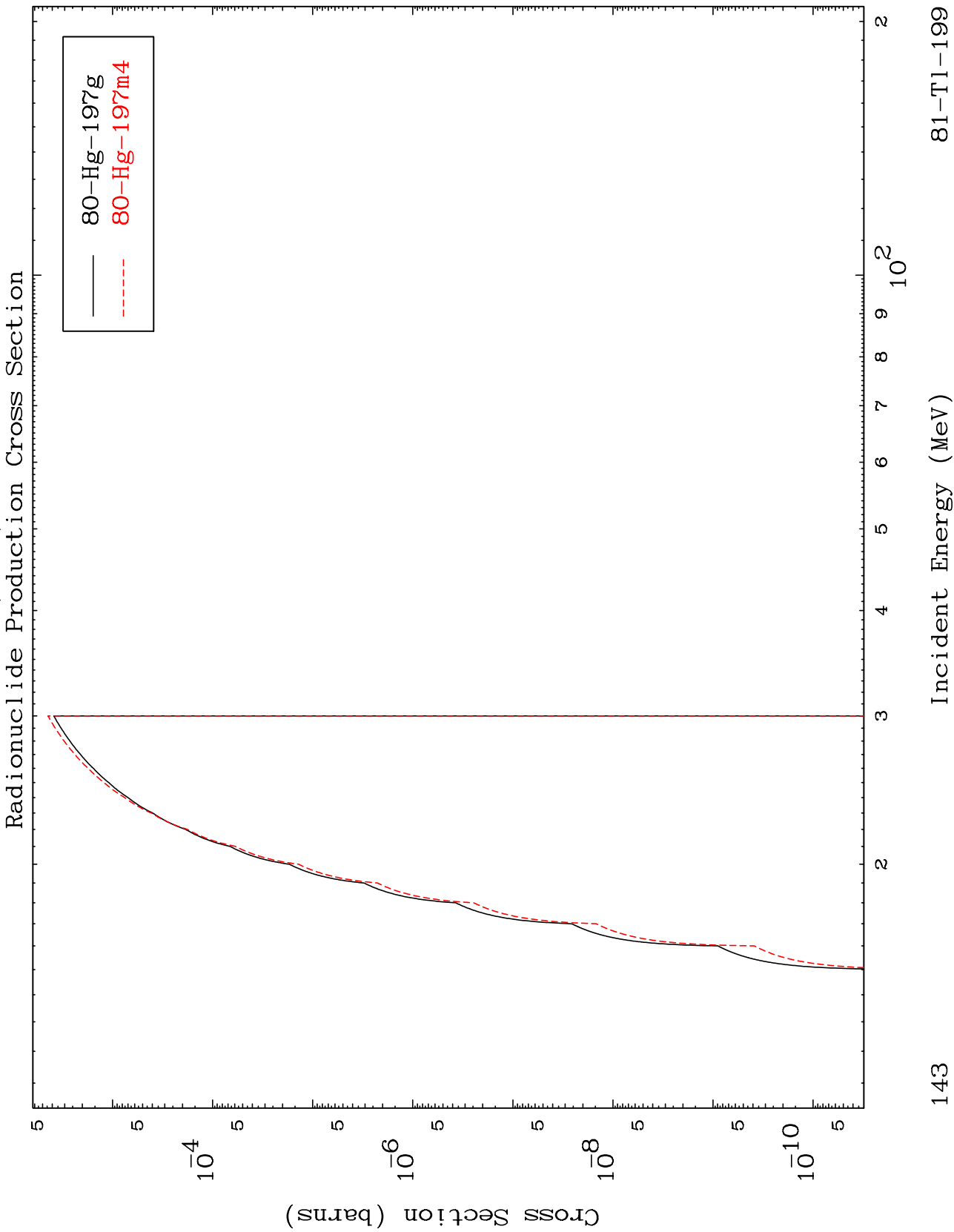
Radionuclide Production Cross Section



142

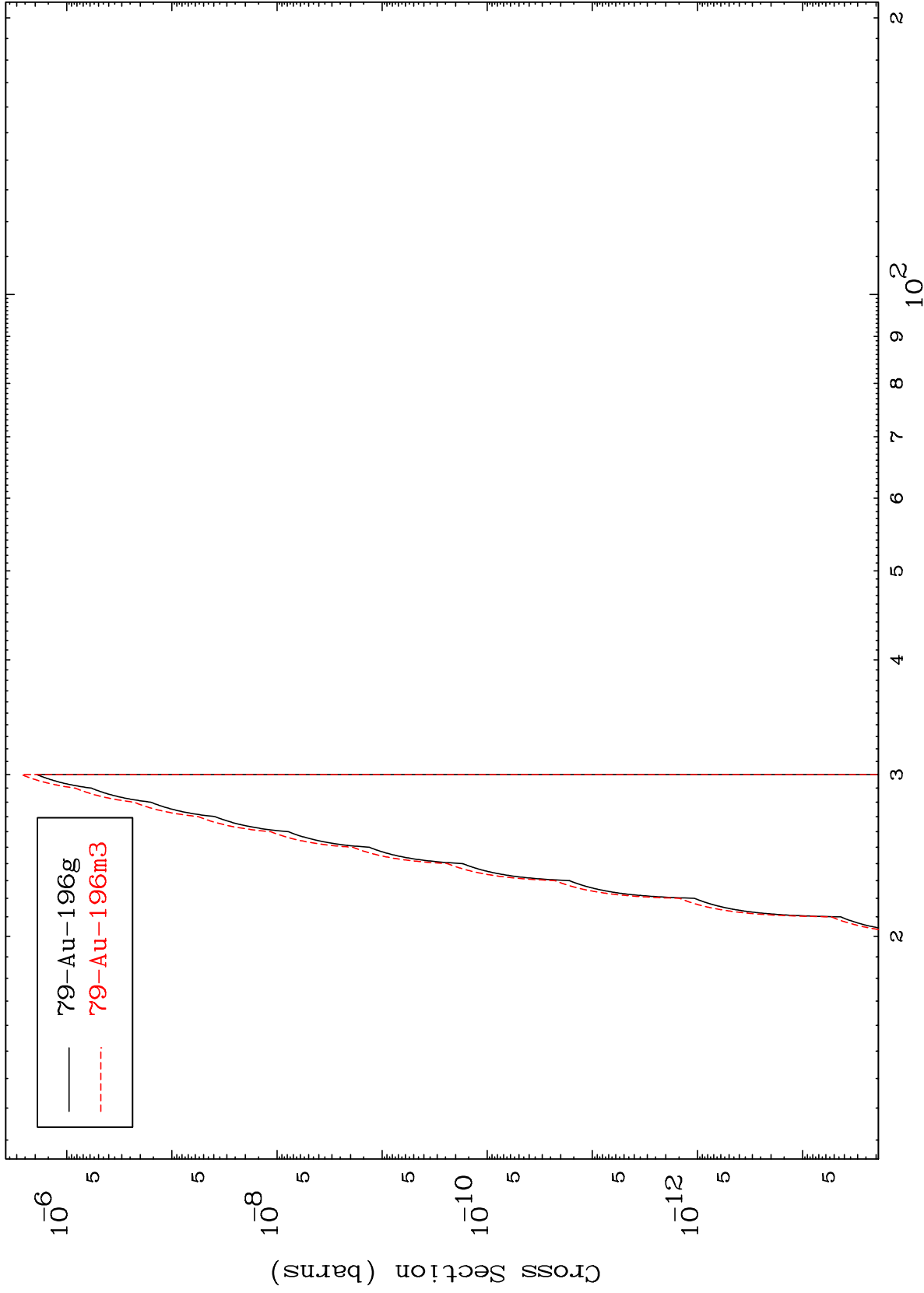
Incident Energy (MeV)

81-T1-199





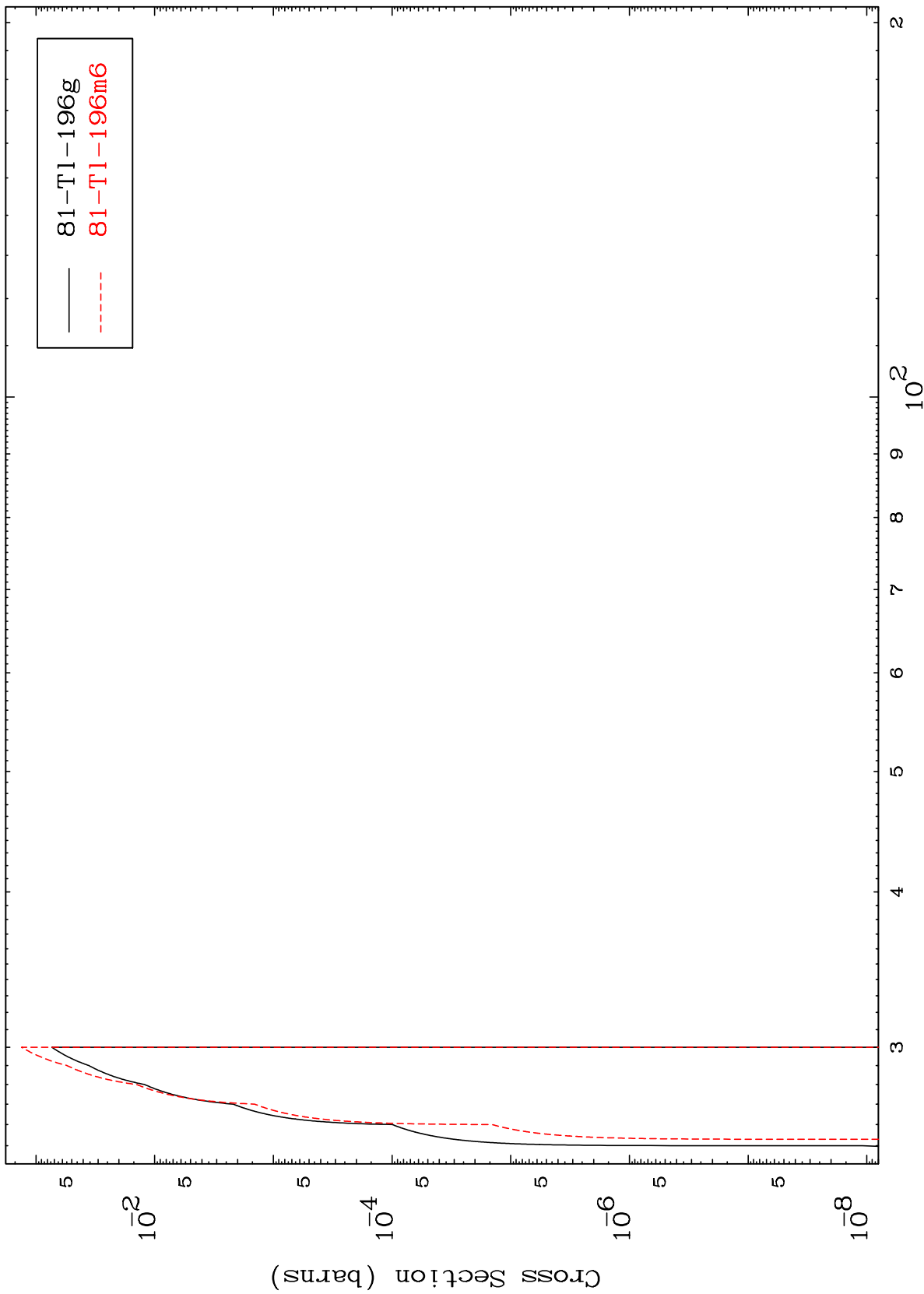
Radionuclide Production Cross Section



MAT 8113

81-Tl-199

(n,4n)  
Radionuclide Production Cross Section



81-Tl-196g  
81-Tl-196m6

145

81-Tl-199

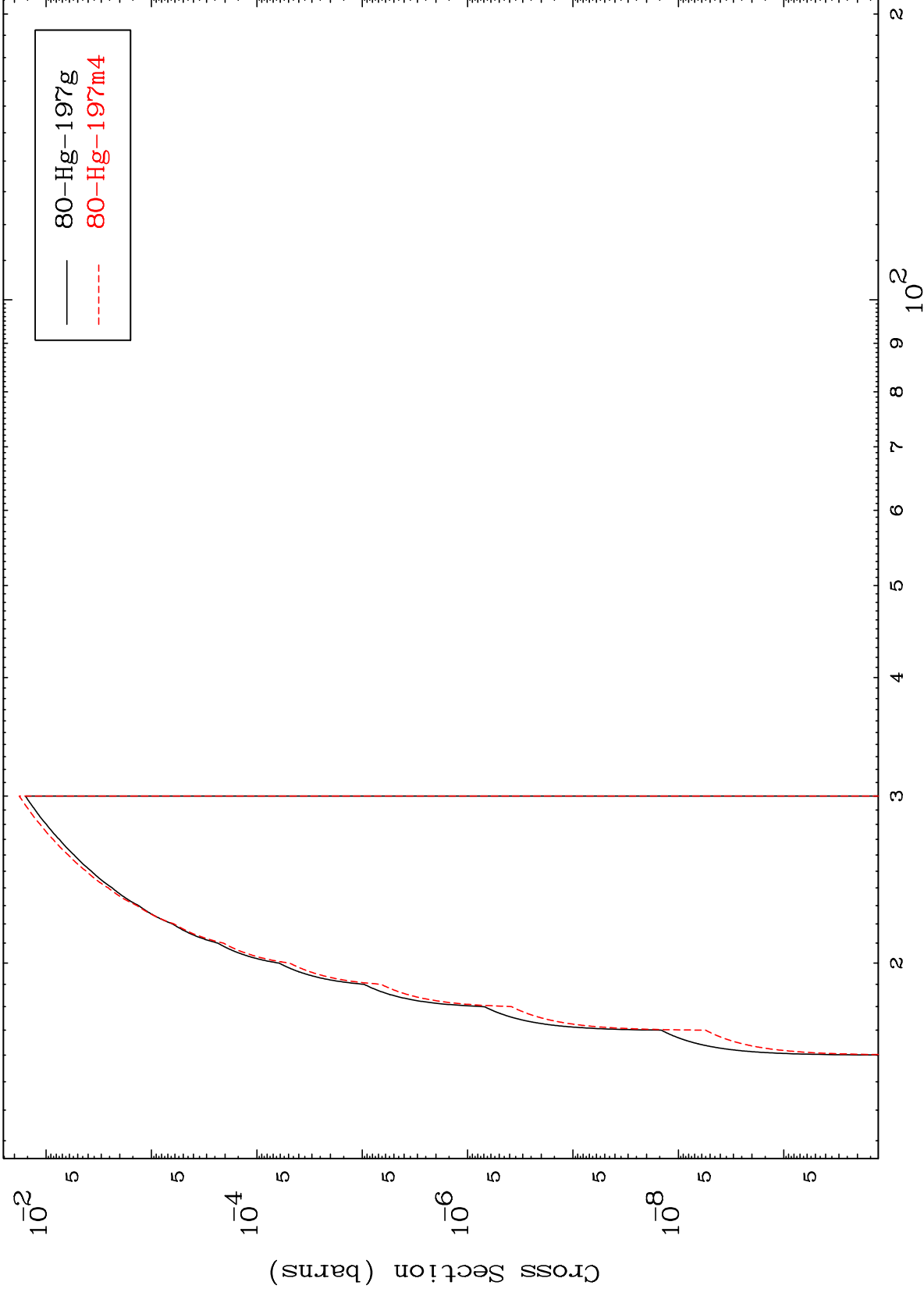
Incident Energy (MeV)

MAT 81113

(n,2n) p

81-Tl-199

Radionuclide Production Cross Section



146

Incident Energy (MeV)

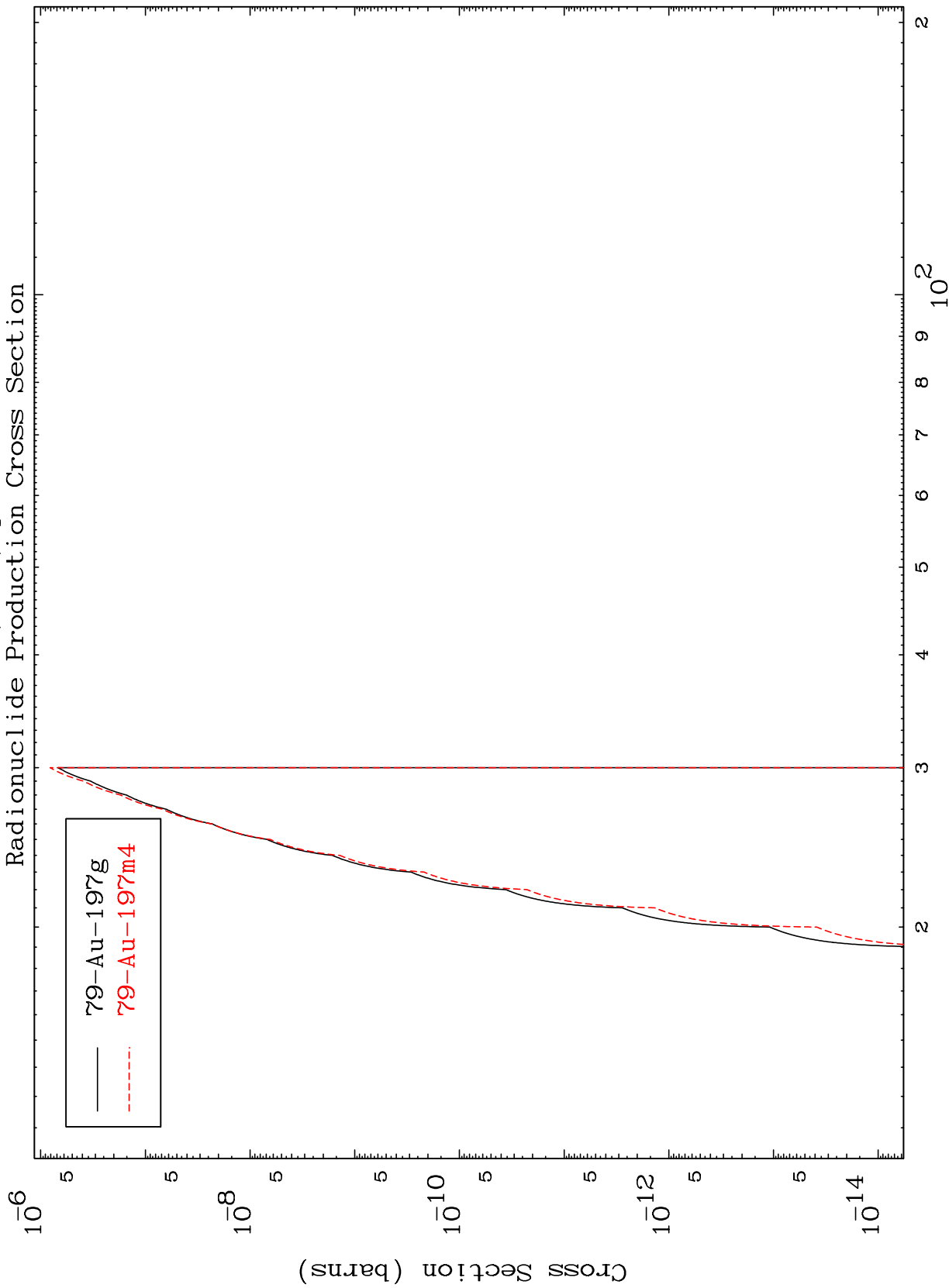
81-Tl-199

MAT 81113

(n,2n) p

81-Tl-199

Radionuclide Production Cross Section



147

Incident Energy (MeV)

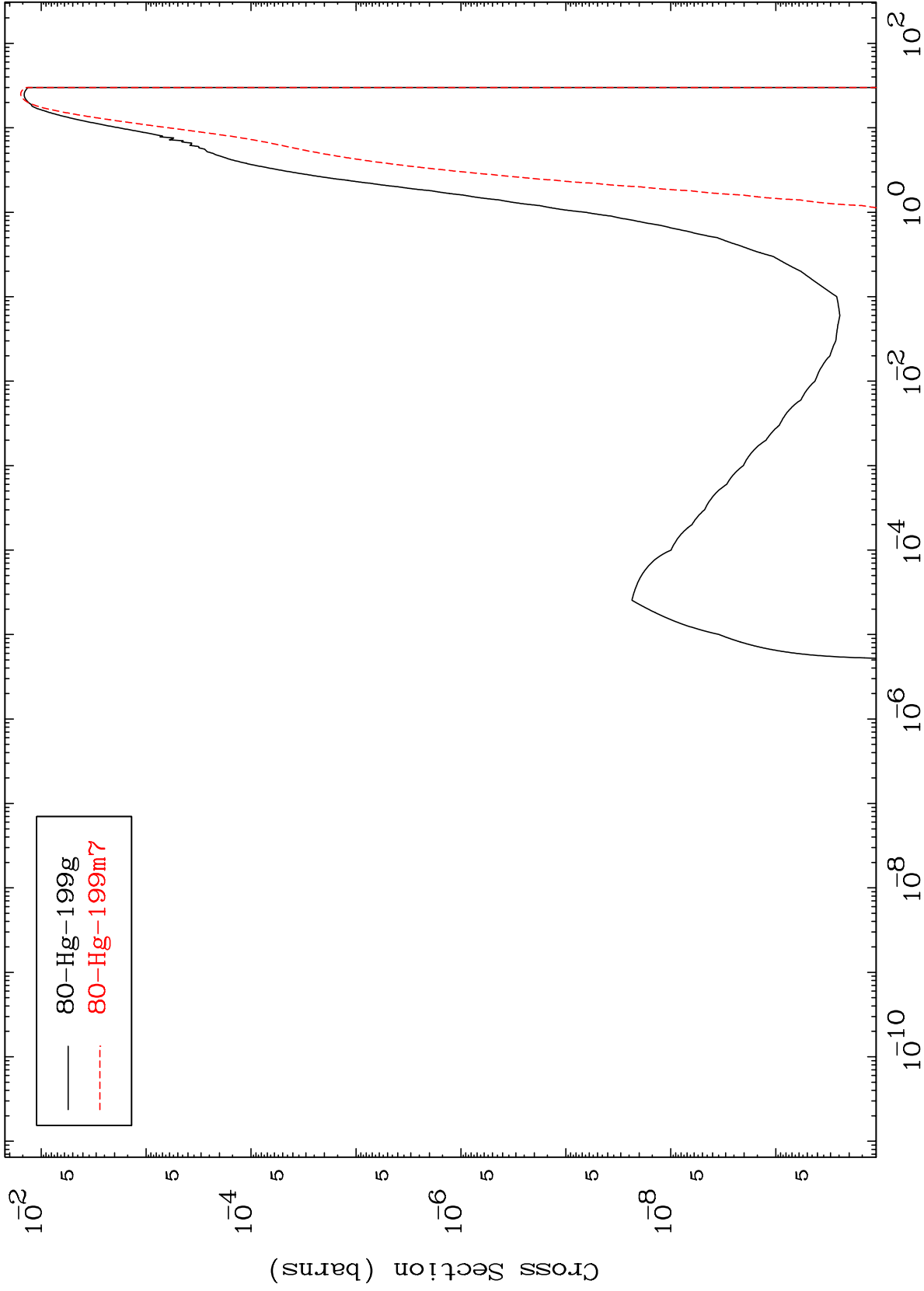
81-Tl-199

MAT 8113

(n,p)

81-Tl-199

Radionuclide Production Cross Section



— 80-Hg-199g  
- - - 80-Hg-199m7

148

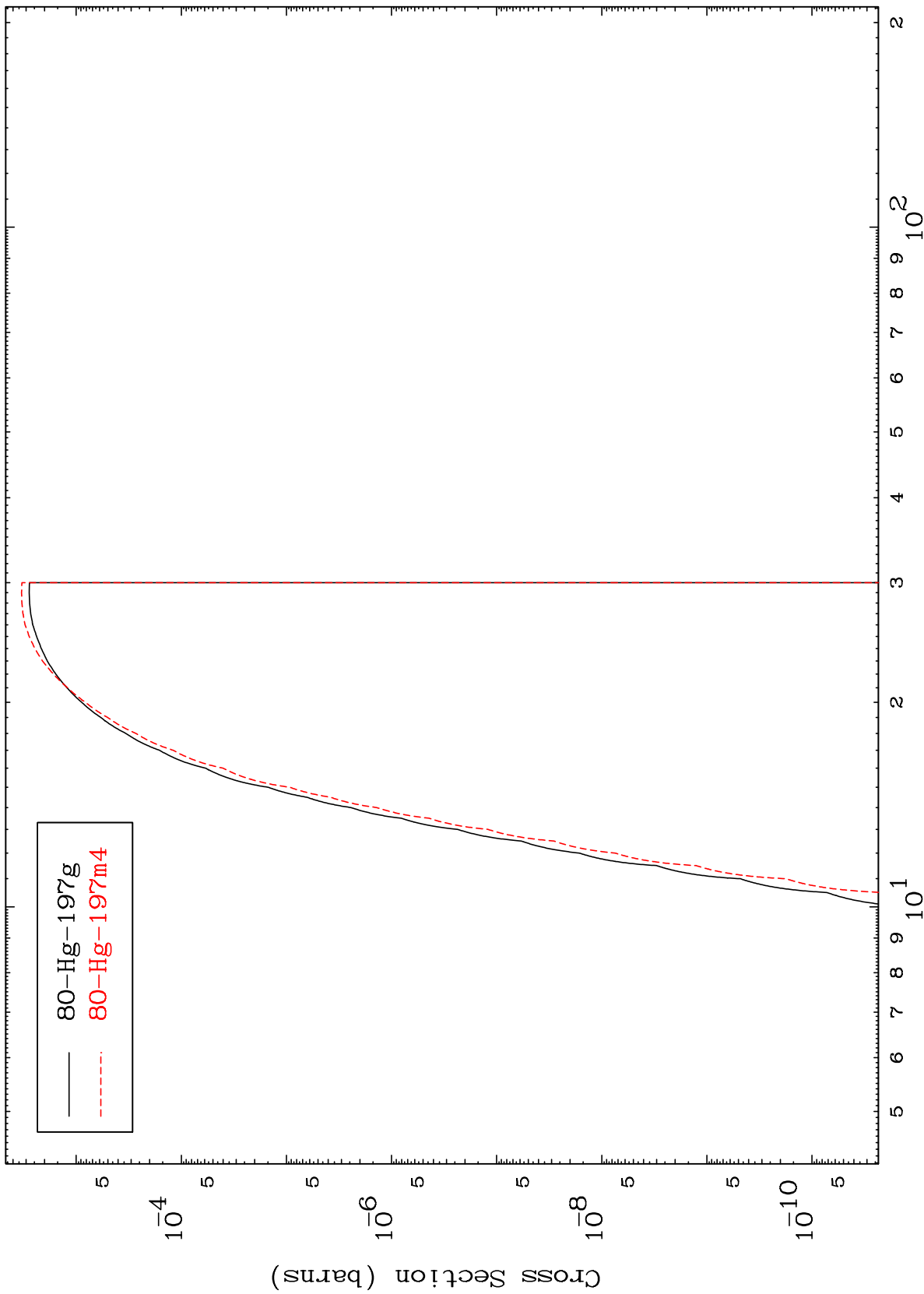
Incident Energy (MeV)

81-Tl-199

MAT 8113

81-T1-199

Radionuclide Production Cross Section (n,t)



149

Incident Energy (MeV)

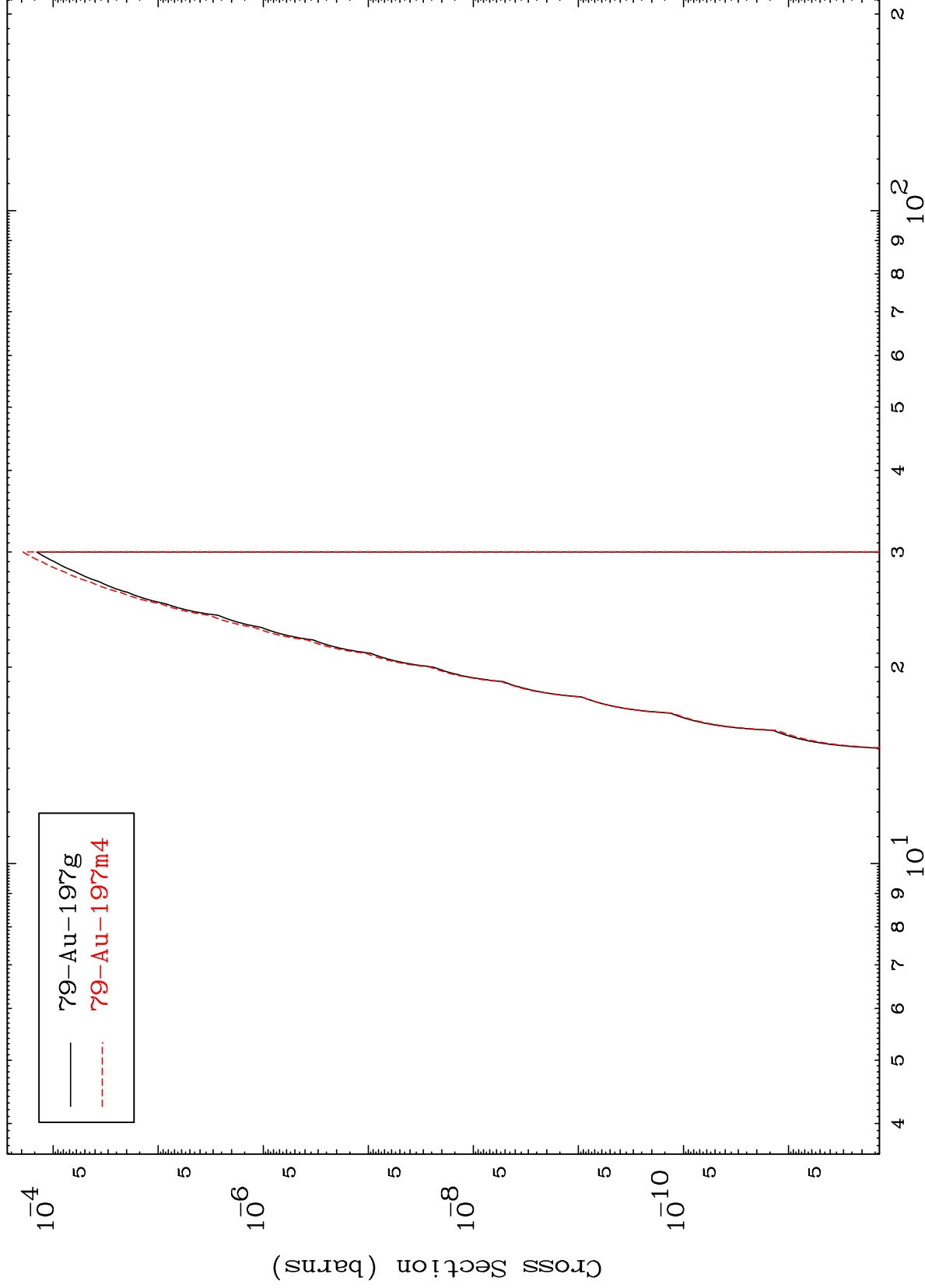
81-T1-199

MAT 81113

(n,He-3)

81-T1-199

Radionuclide Production Cross Section



150

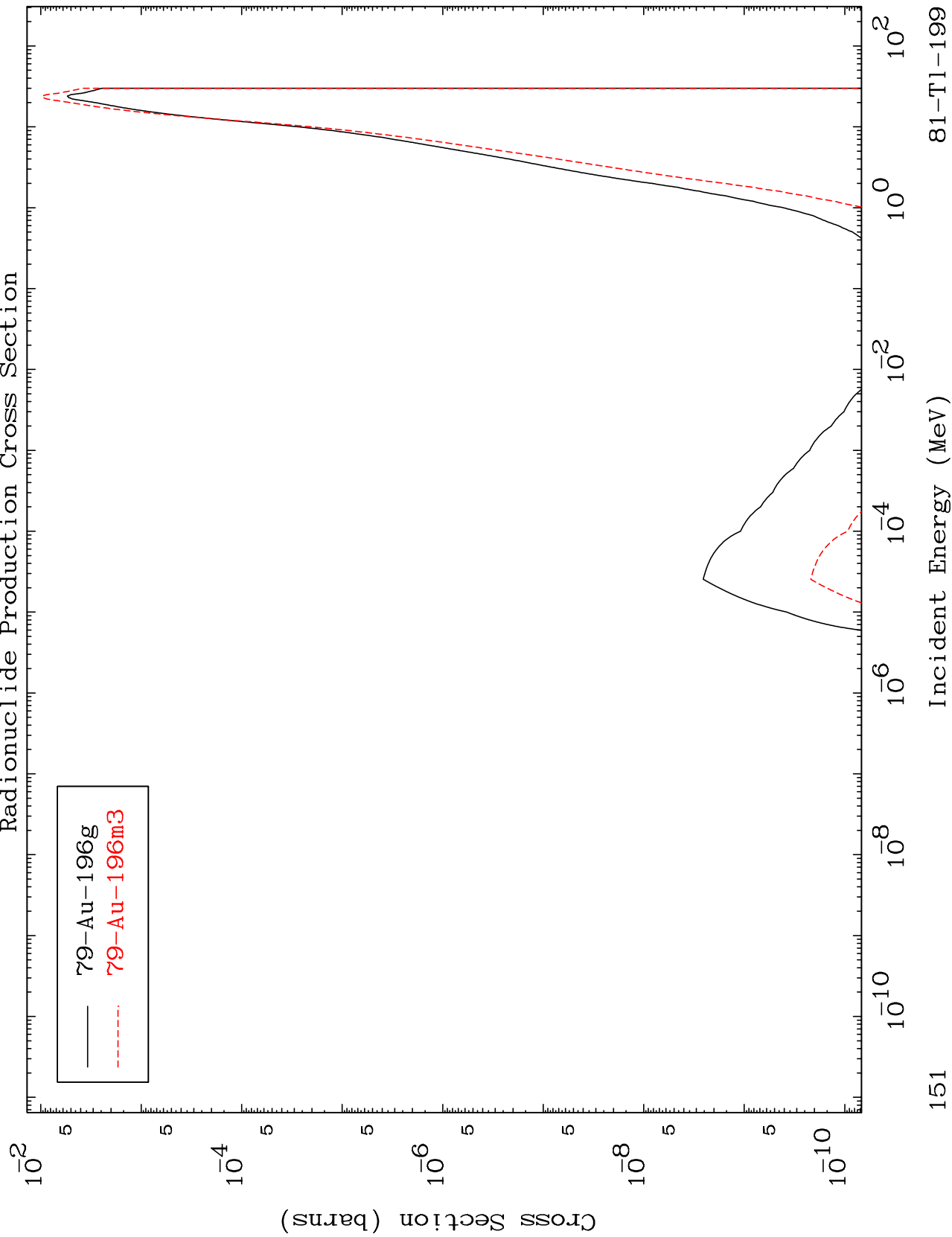
Incident Energy (MeV)

81-T1-199

MAT 8113

81-Tl-199

Radionuclide Production Cross Section



151

81-Tl-199

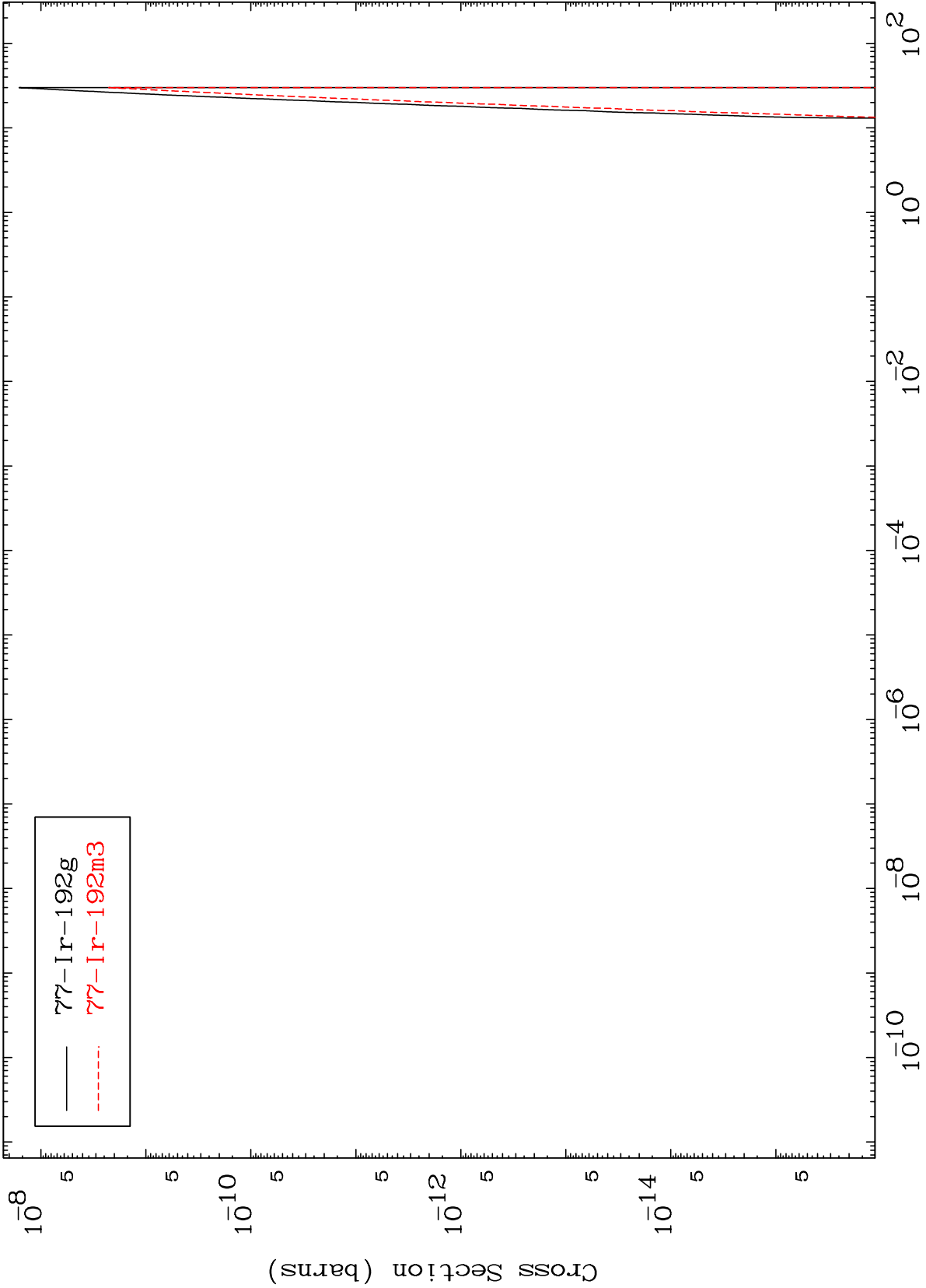


MAT 81113

(n,2α)

81-Tl-199

Radionuclide Production Cross Section



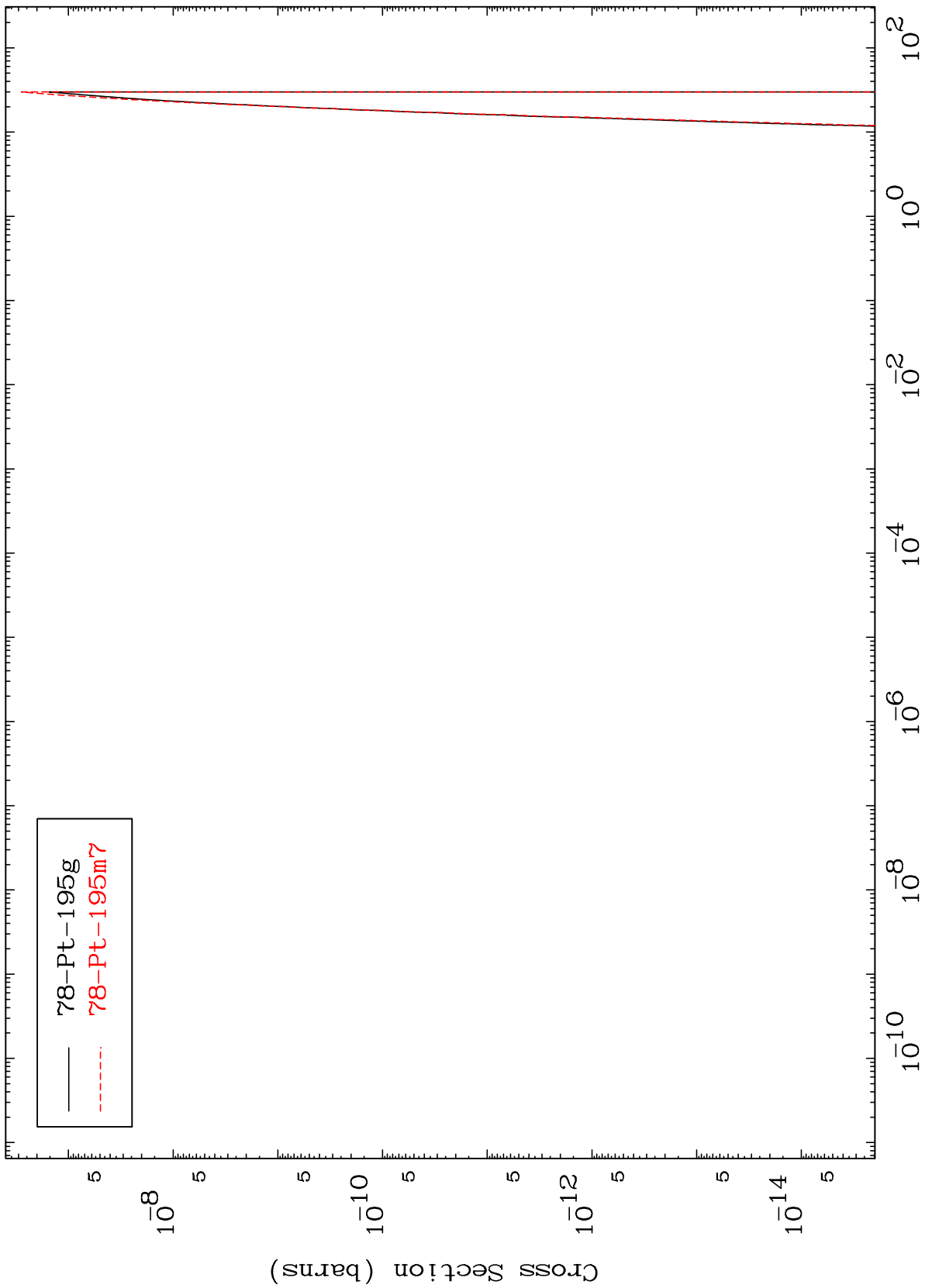
77-Ir-192g  
77-Ir-192m3

MAT 8113

(n,p)  $\alpha$

81-Tl-199

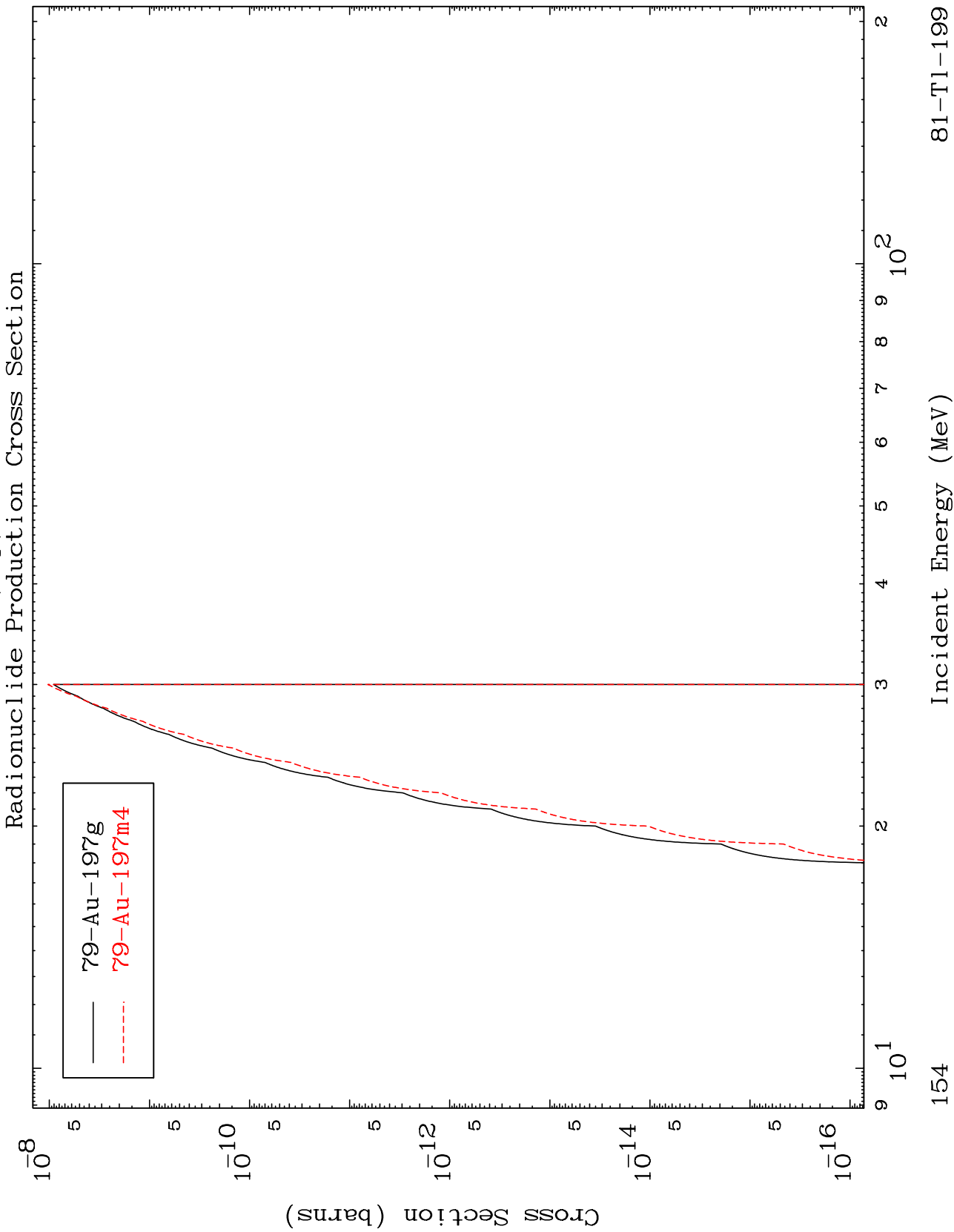
Radionuclide Production Cross Section



MAT 81113

(n,p) d

81-Tl-199



154

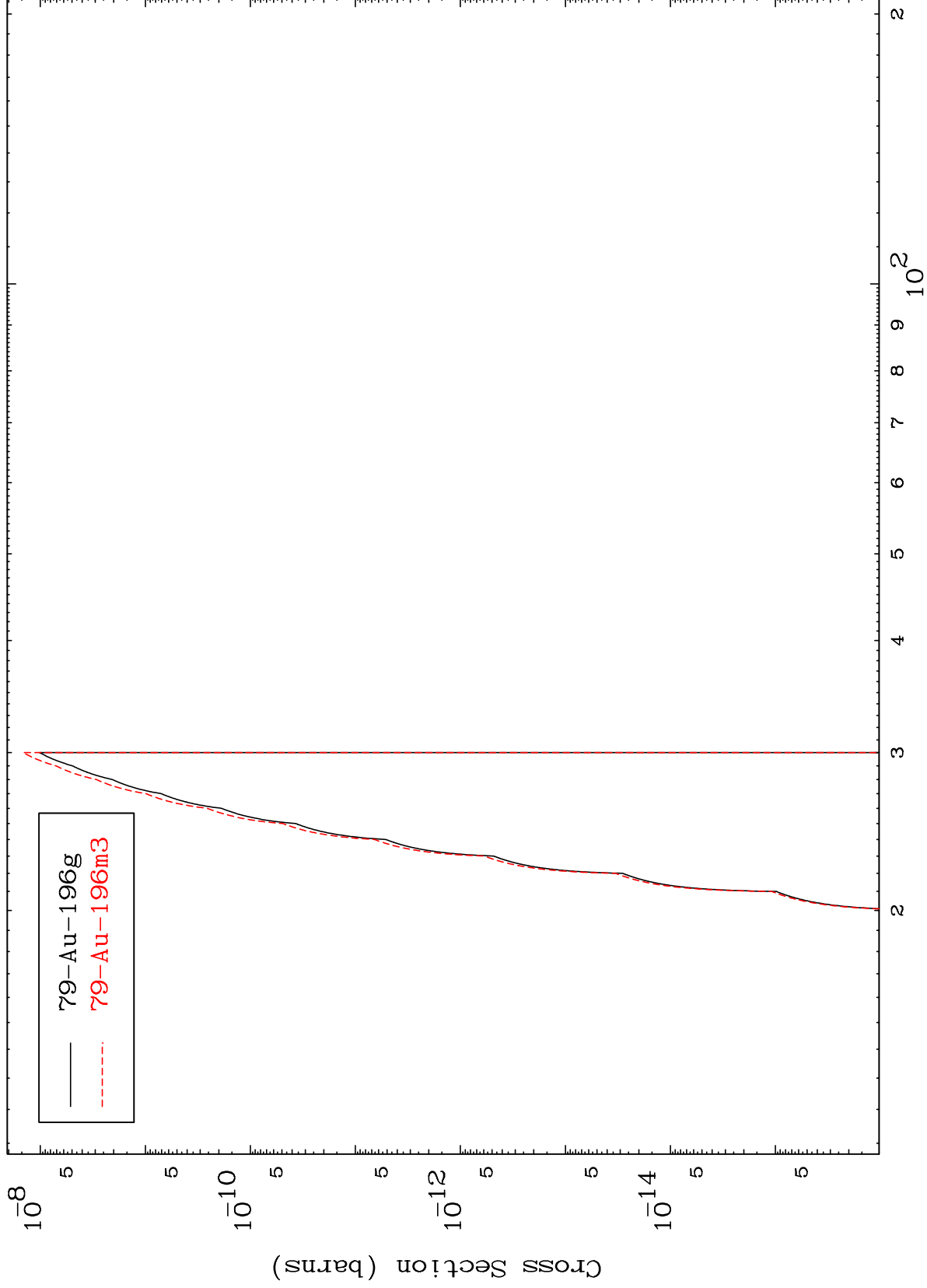
81-Tl-199

MAT 81113

(n,p) t

81-Tl-199

Radionuclide Production Cross Section



155

Incident Energy (MeV)

81-Tl-199