

Program EVALPLOT
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

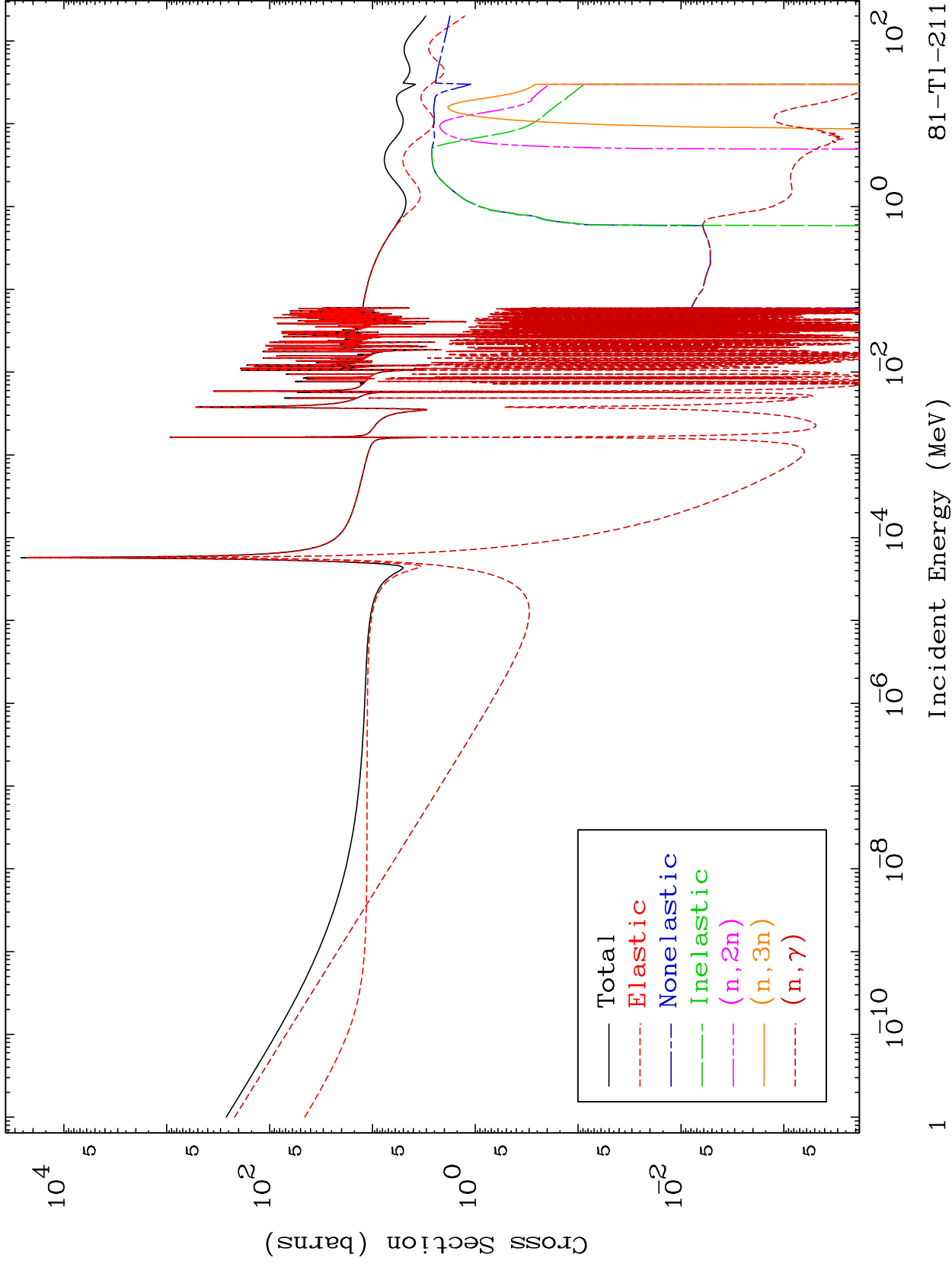
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Web: redcullen1.net/HOMEPAGE.NEW

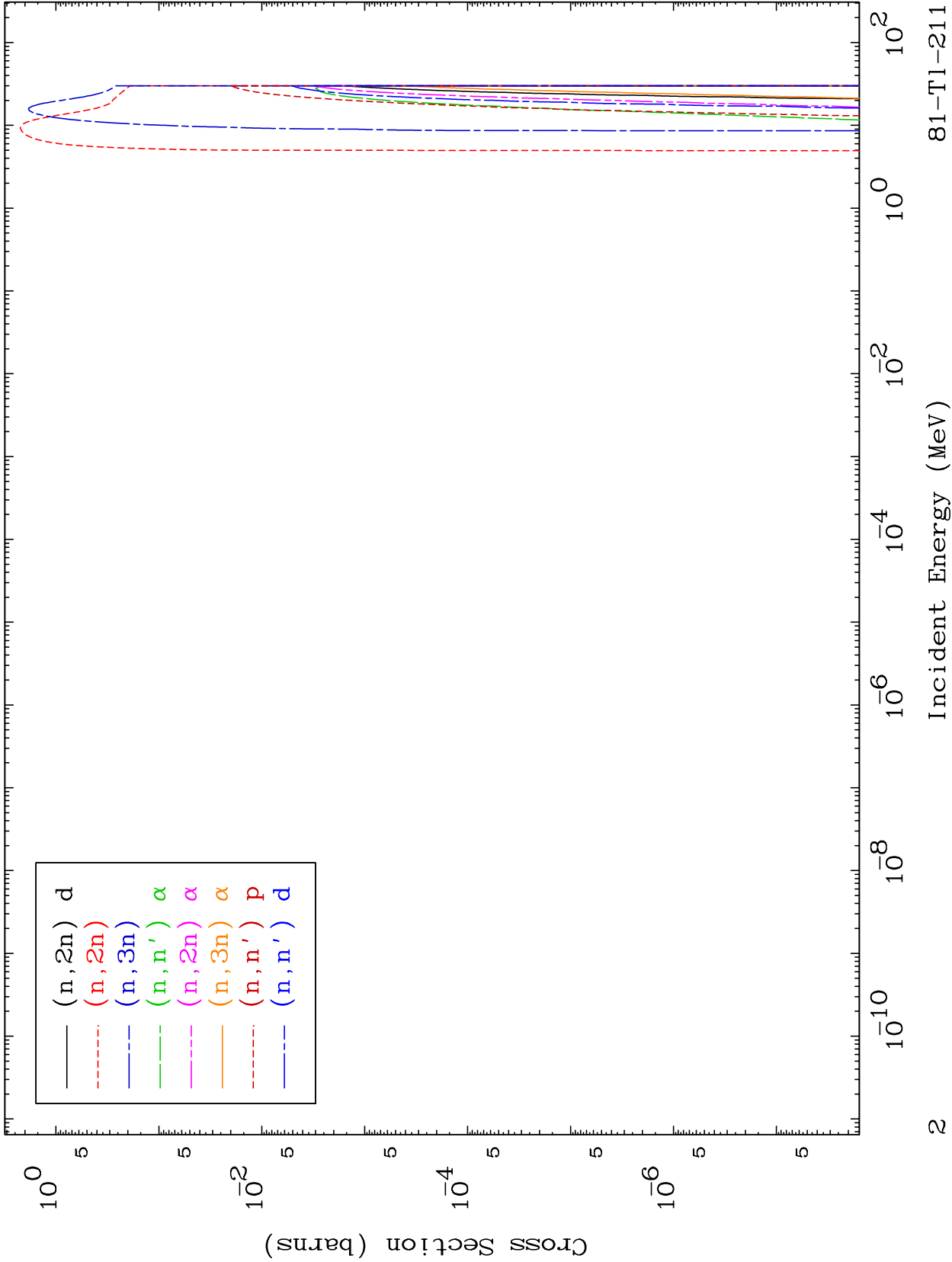
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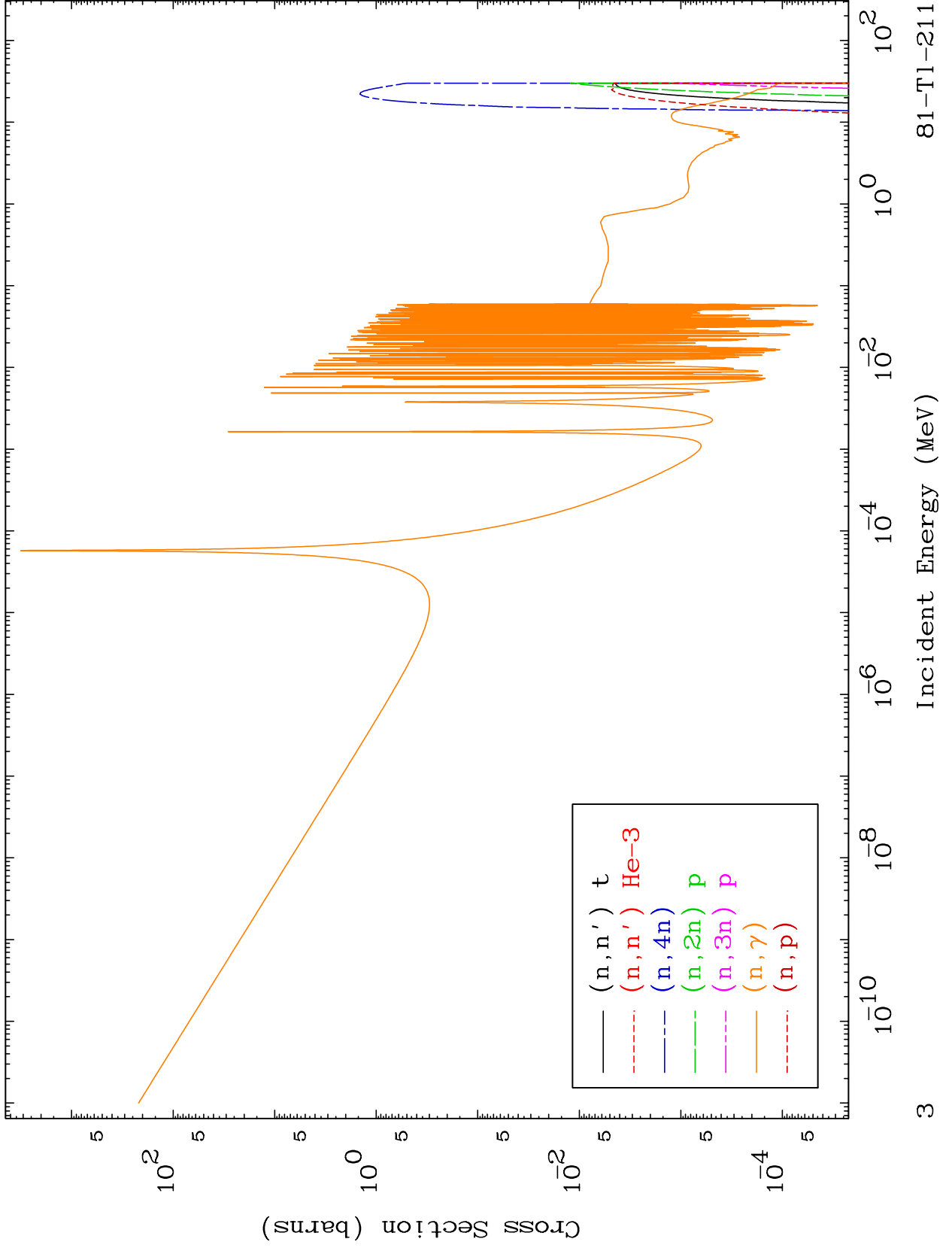


MAT 8149

Neutron Absorption
293 Kelvin Cross Sections

81-Tl-211

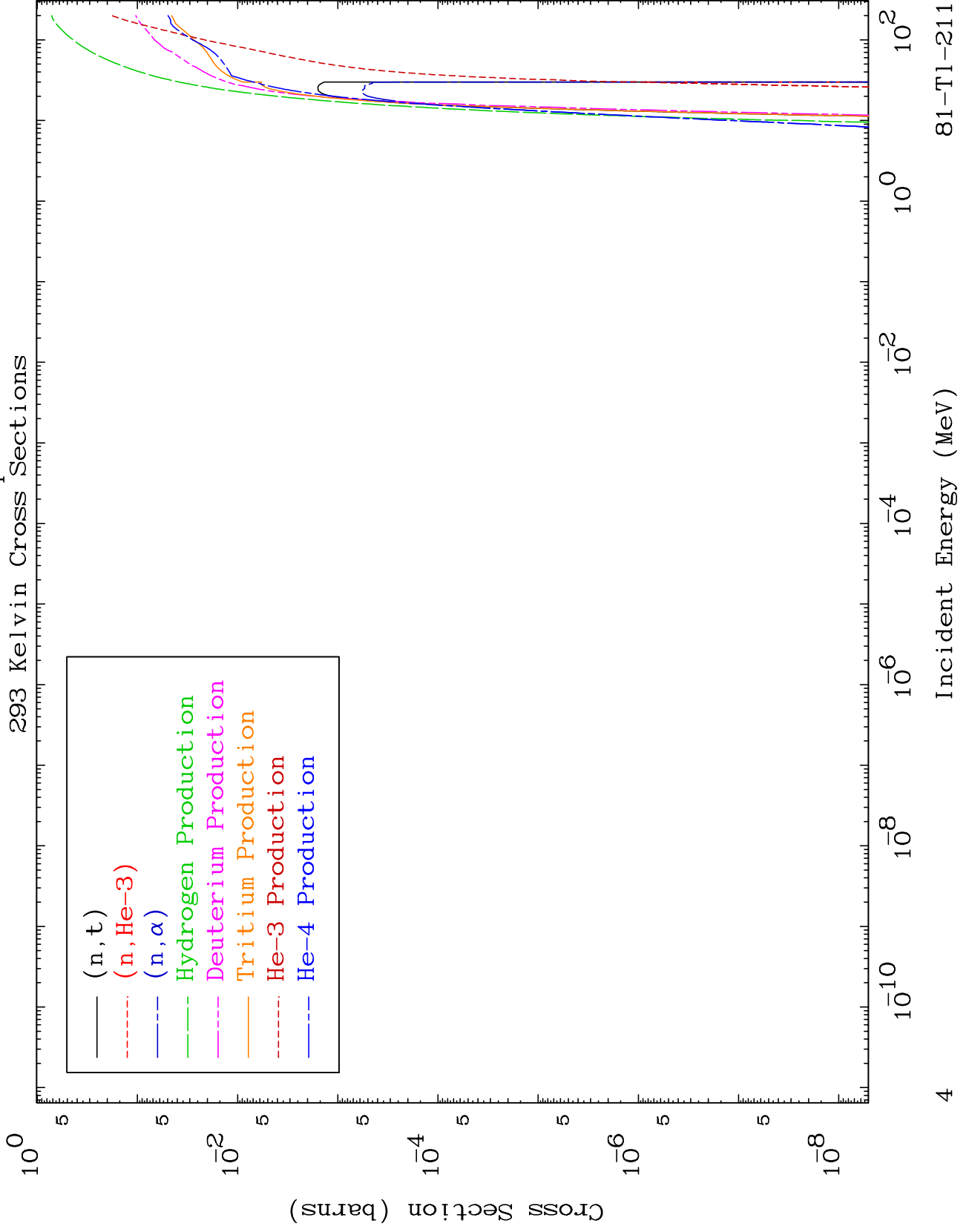




MAT 8149

Neutron Absorption
293 Kelvin Cross Sections

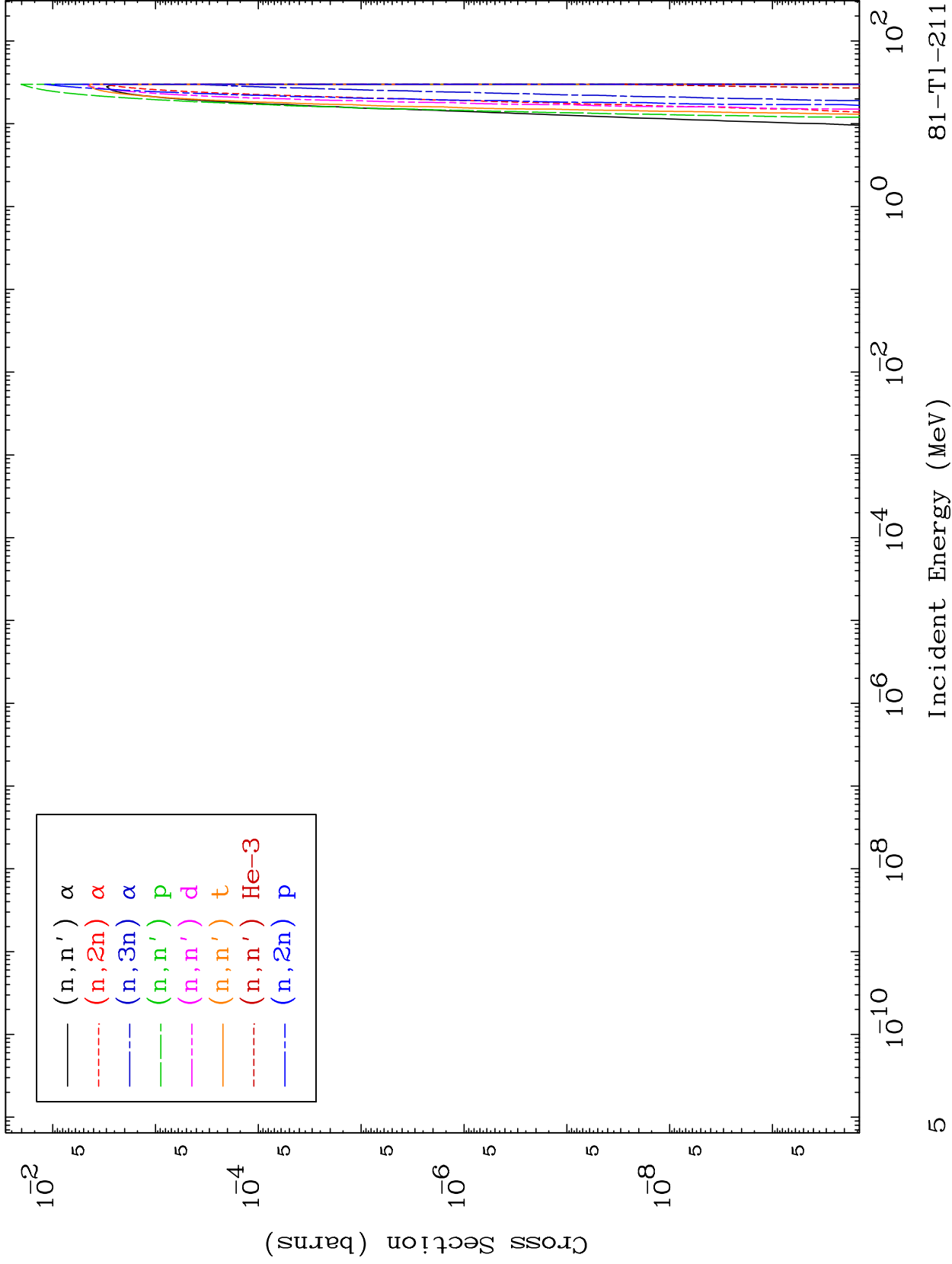
81-Tl-211

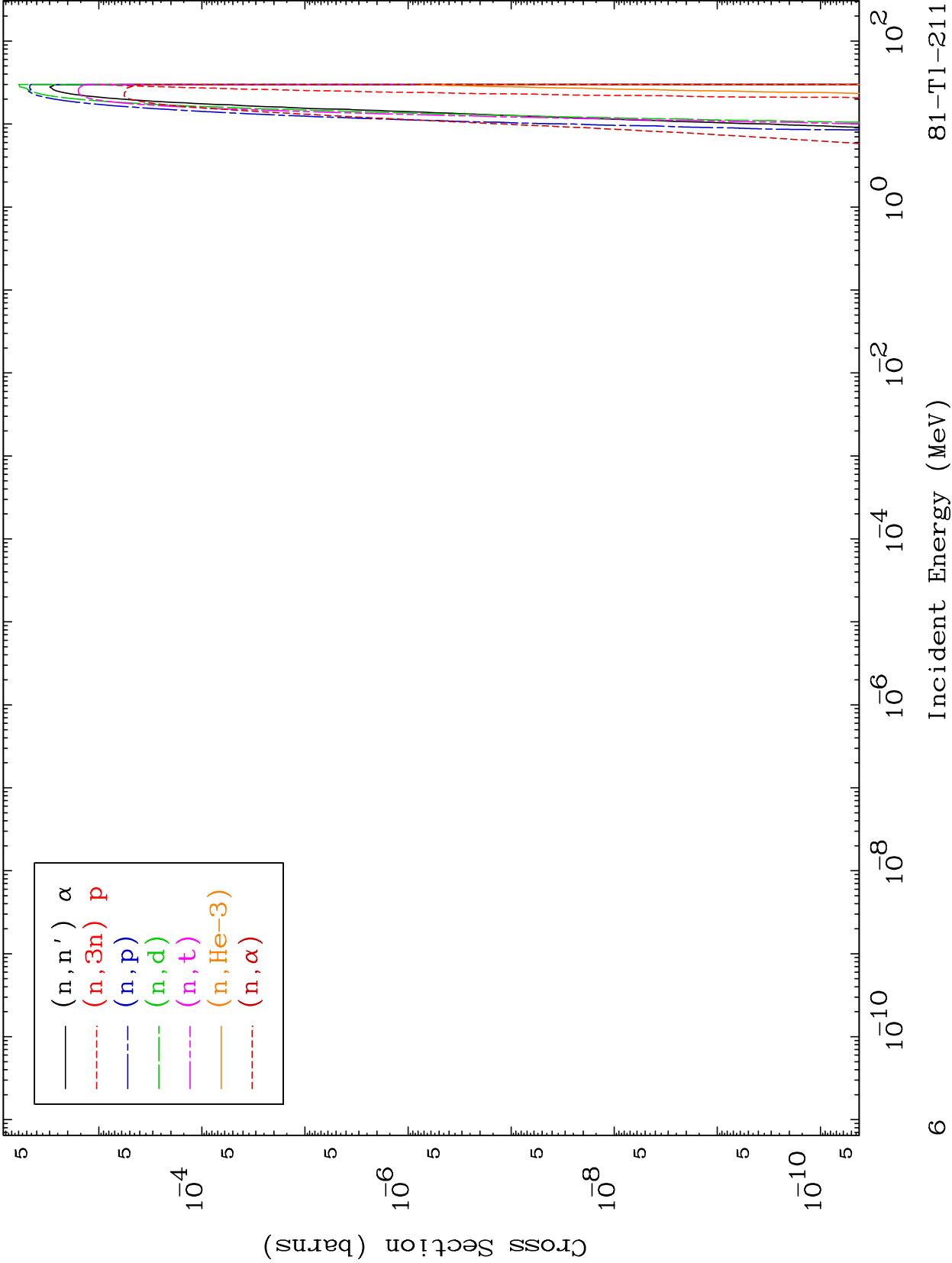


MAT 8149

Charged Particle
293 Kelvin Cross Sections

81-Tl-211

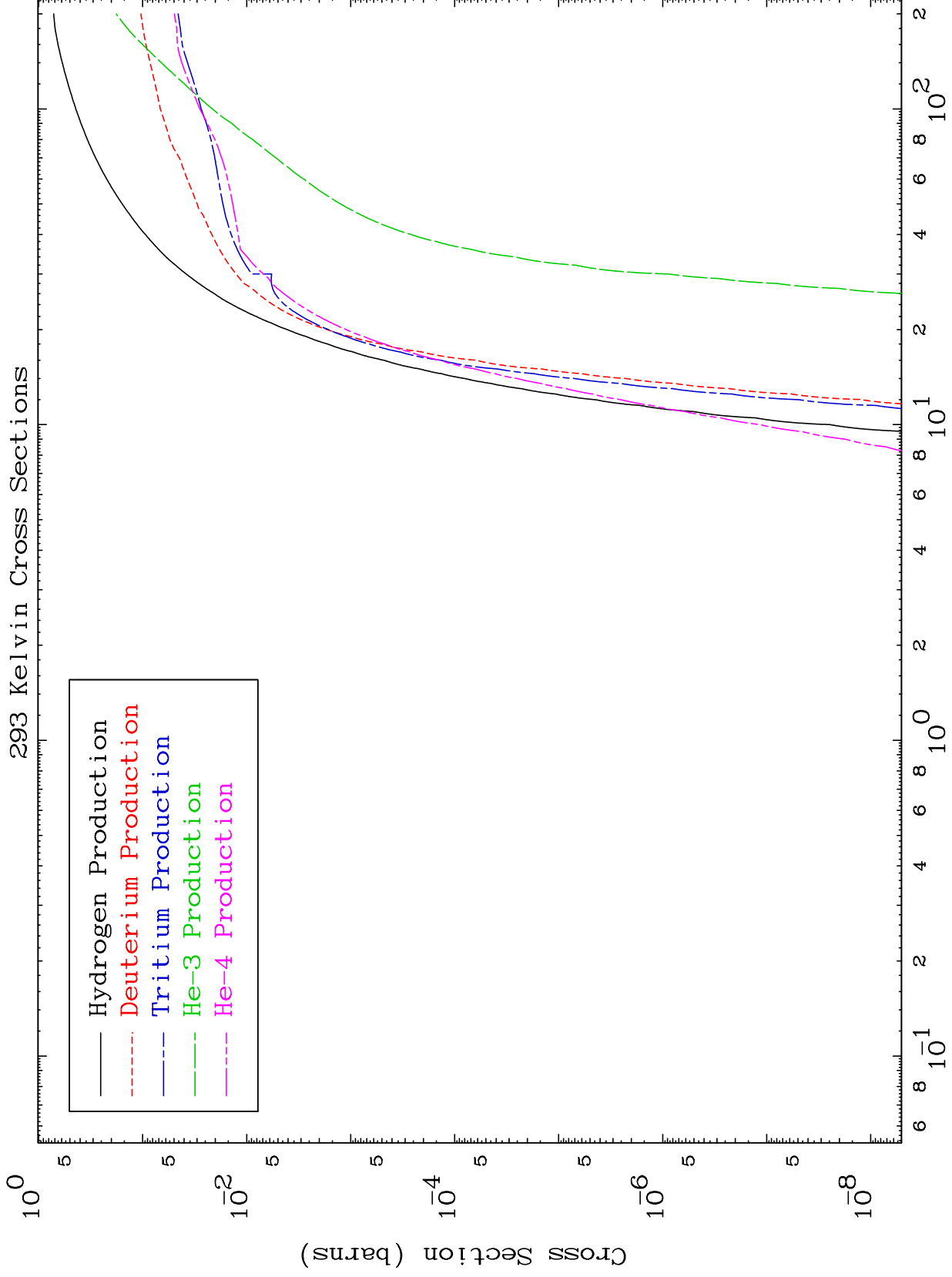




MAT 8149

Particle Production
293 Kelvin Cross Sections

81-Tl-211



7

Incident Energy (MeV)

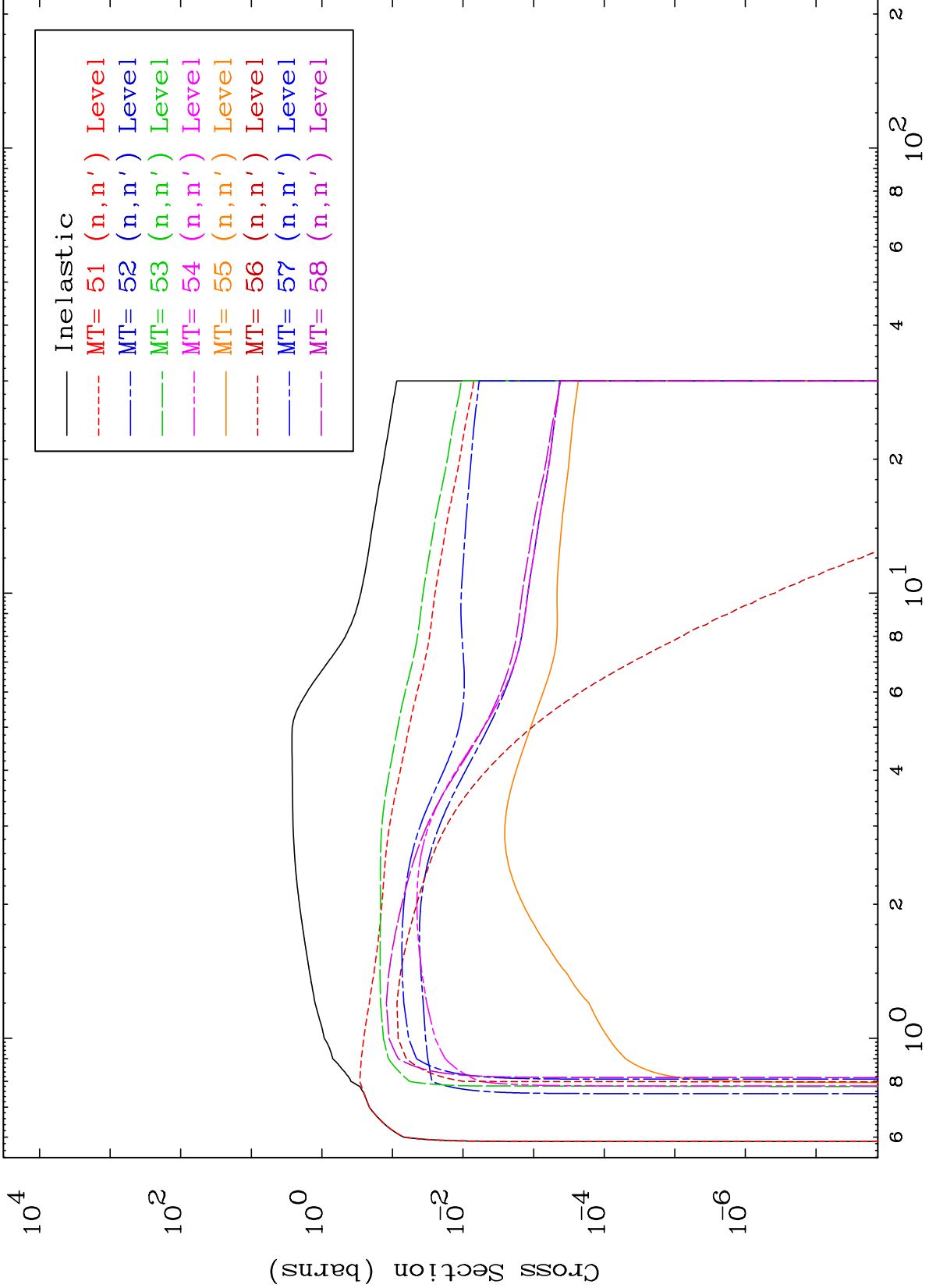
81-Tl-211

MAT 8149

(n,n') Levels

81-Tl-211

293 Kelvin Cross Sections



8

Incident Energy (MeV)

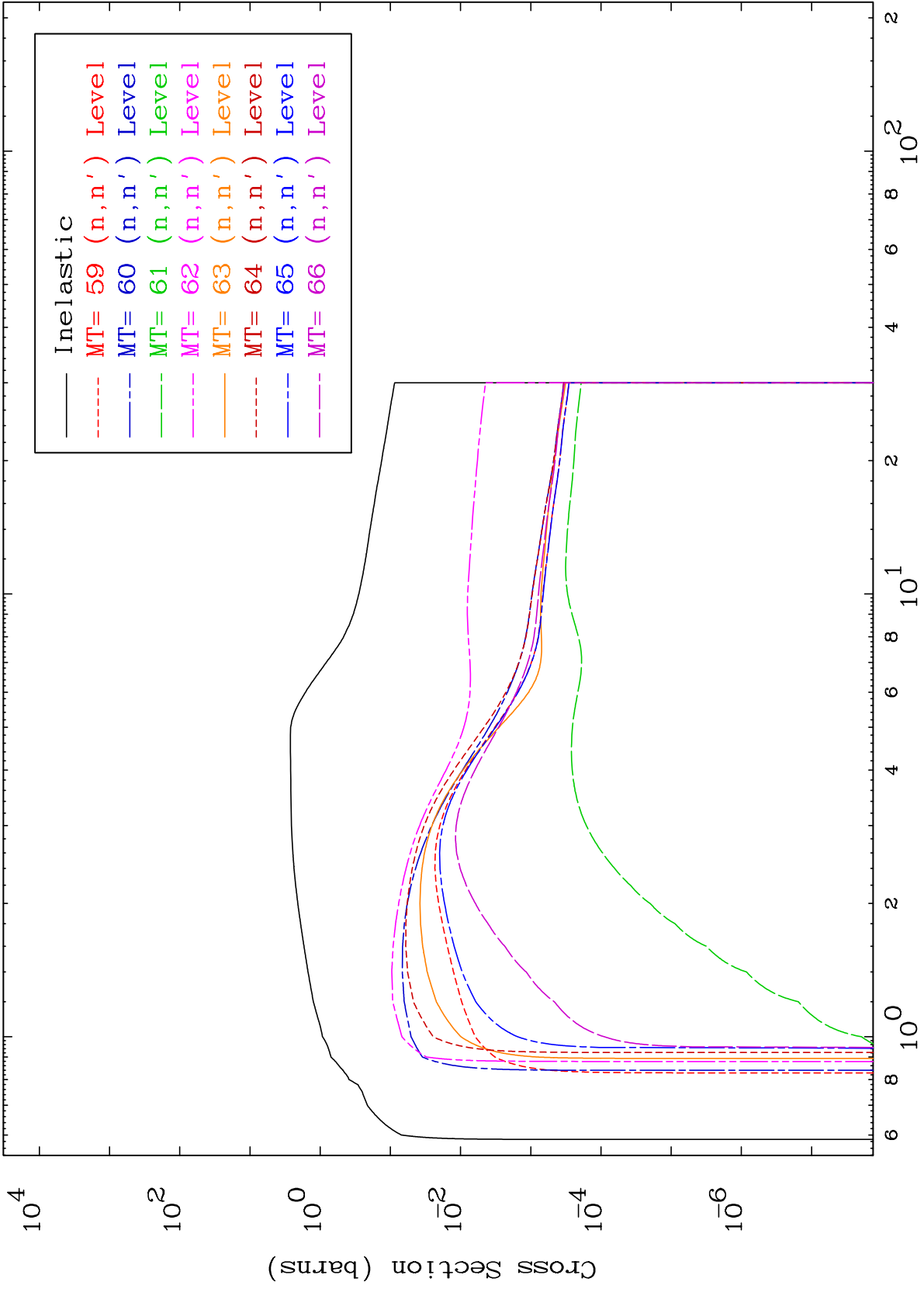
81-Tl-211

MAT 8149

(n,n') Levels

81-Tl-211

293 Kelvin Cross Sections



9

Incident Energy (MeV)

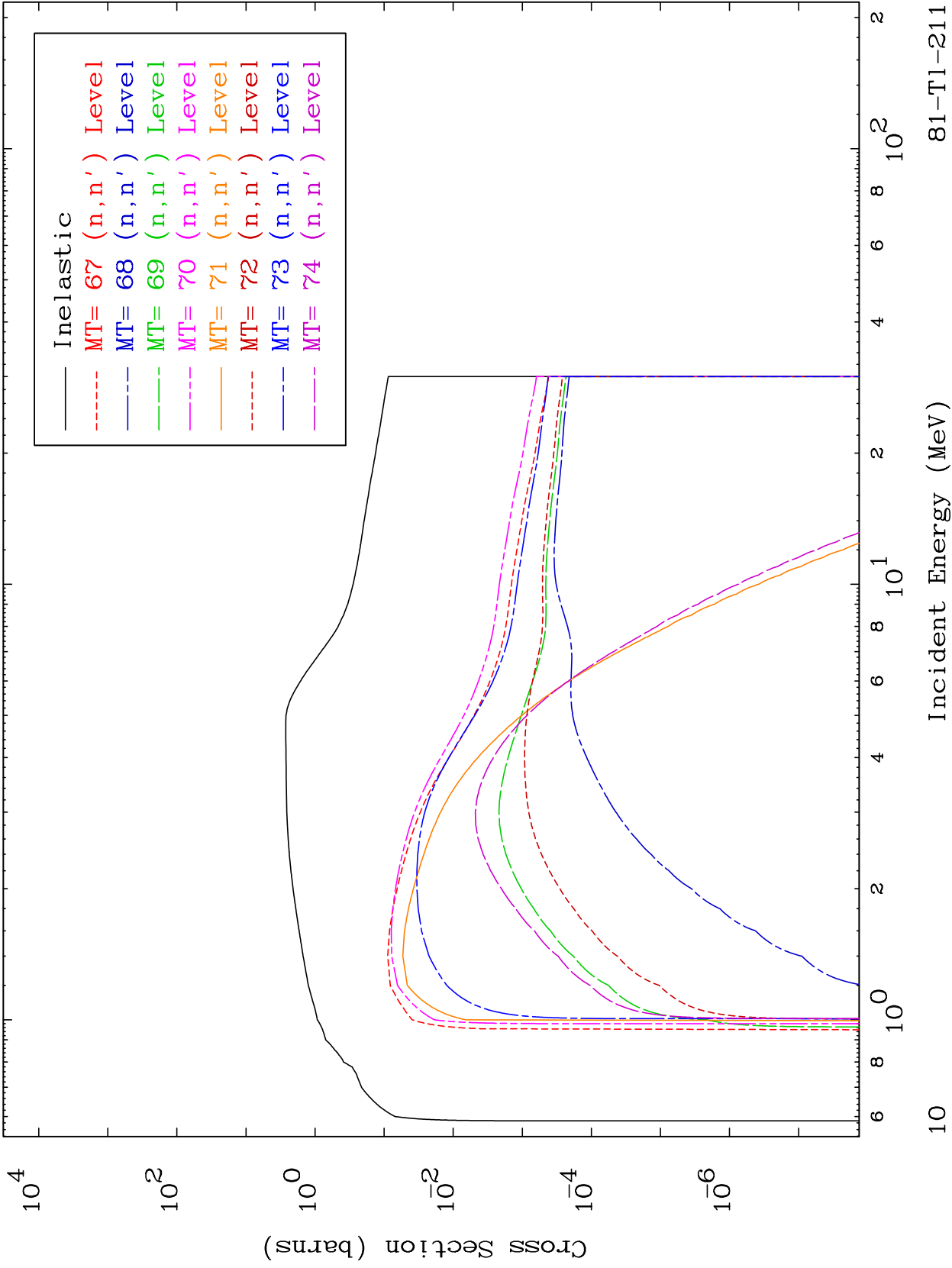
81-Tl-211

MAT 8149

(n,n') Levels

81-Tl-211

293 Kelvin Cross Sections

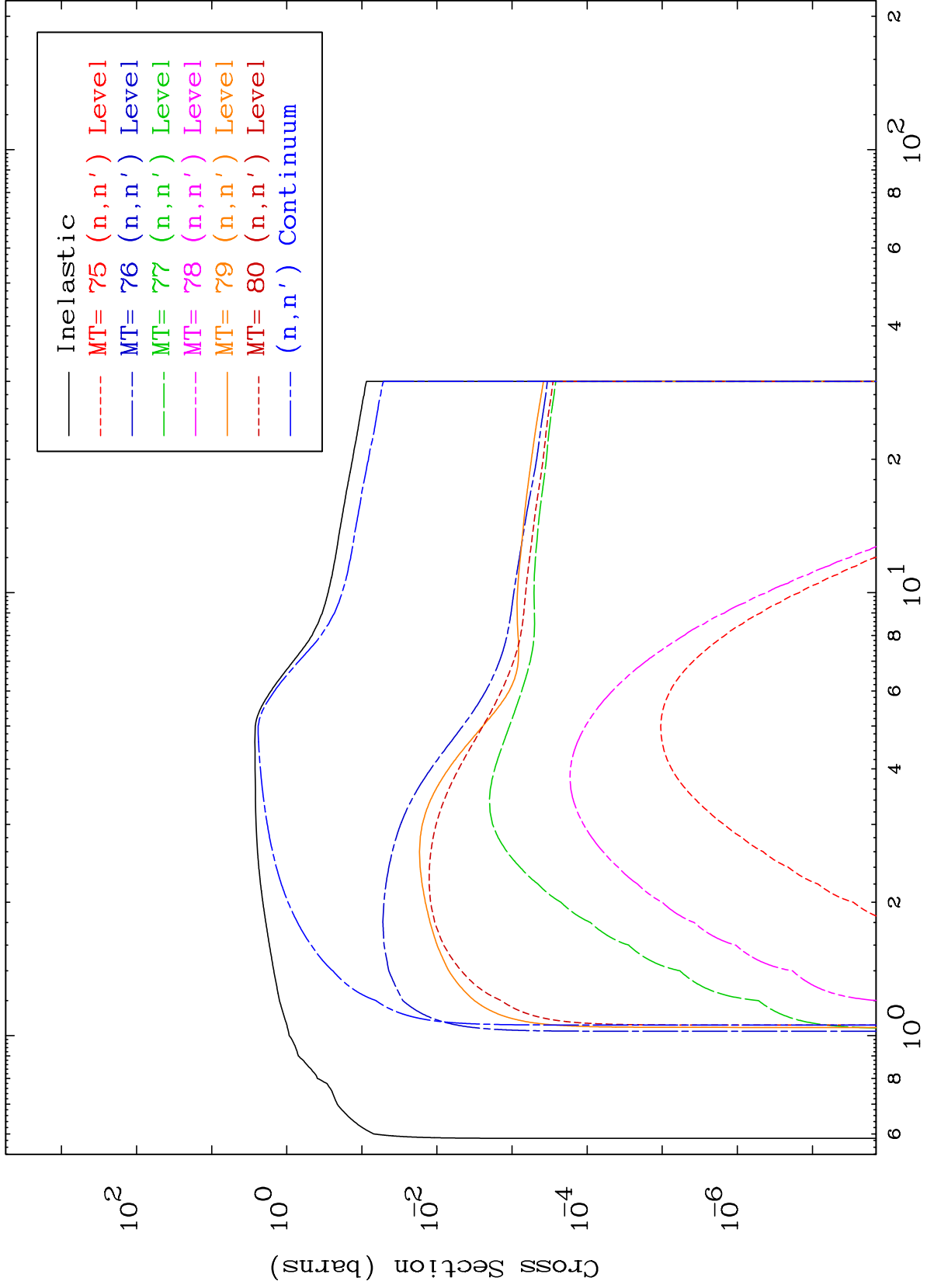


10

Incident Energy (MeV)

81-Tl-211

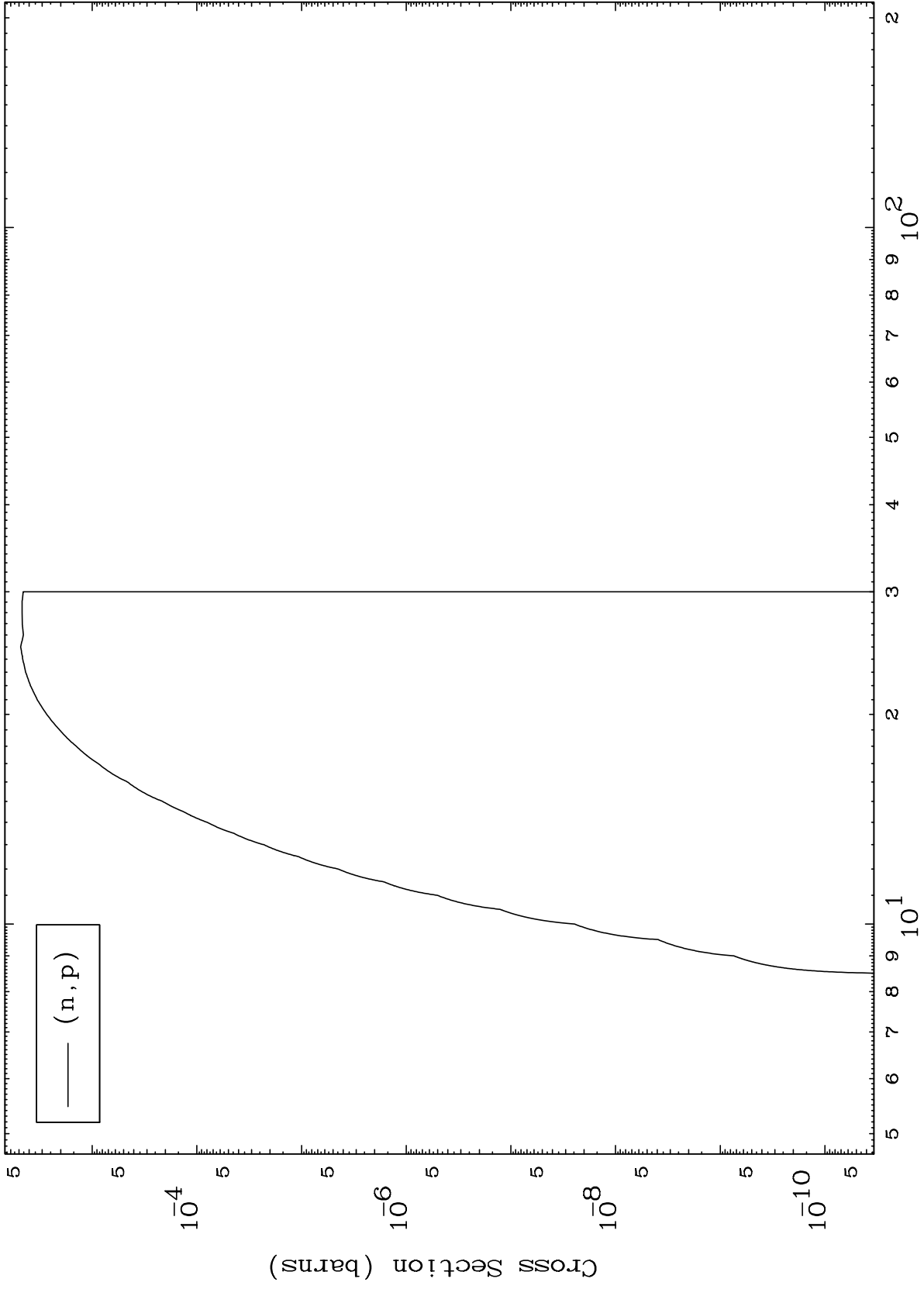
293 Kelvin Cross Sections



MAT 8149

(n,p) Levels
293 Kelvin Cross Sections

81-Tl-211



12

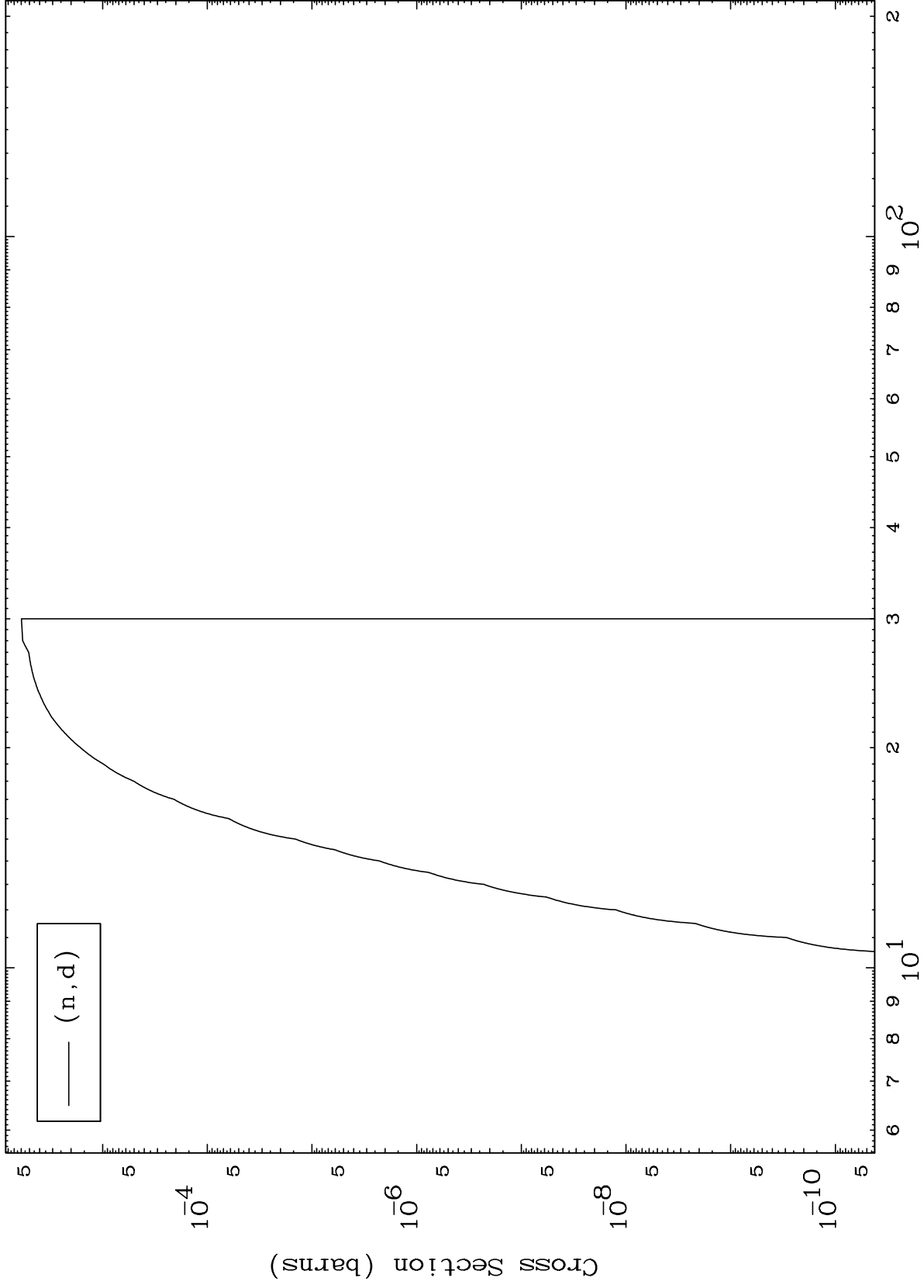
Incident Energy (MeV)

81-Tl-211

MAT 8149

(n,d) Levels
293 Kelvin Cross Sections

81-Tl-211



13

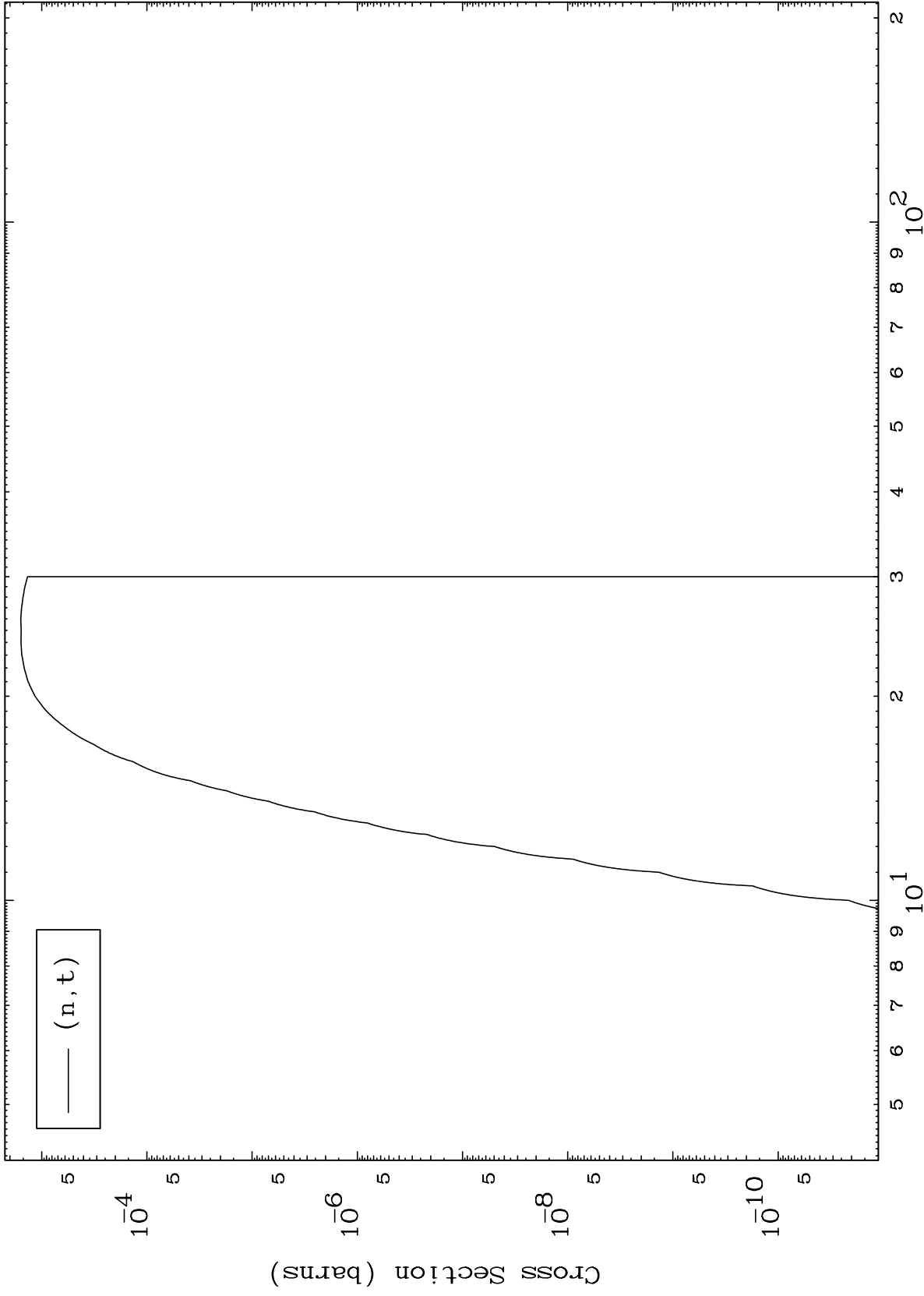
Incident Energy (MeV)

81-Tl-211

MAT 8149

(n,t) Levels
293 Kelvin Cross Sections

81-Tl-211



14

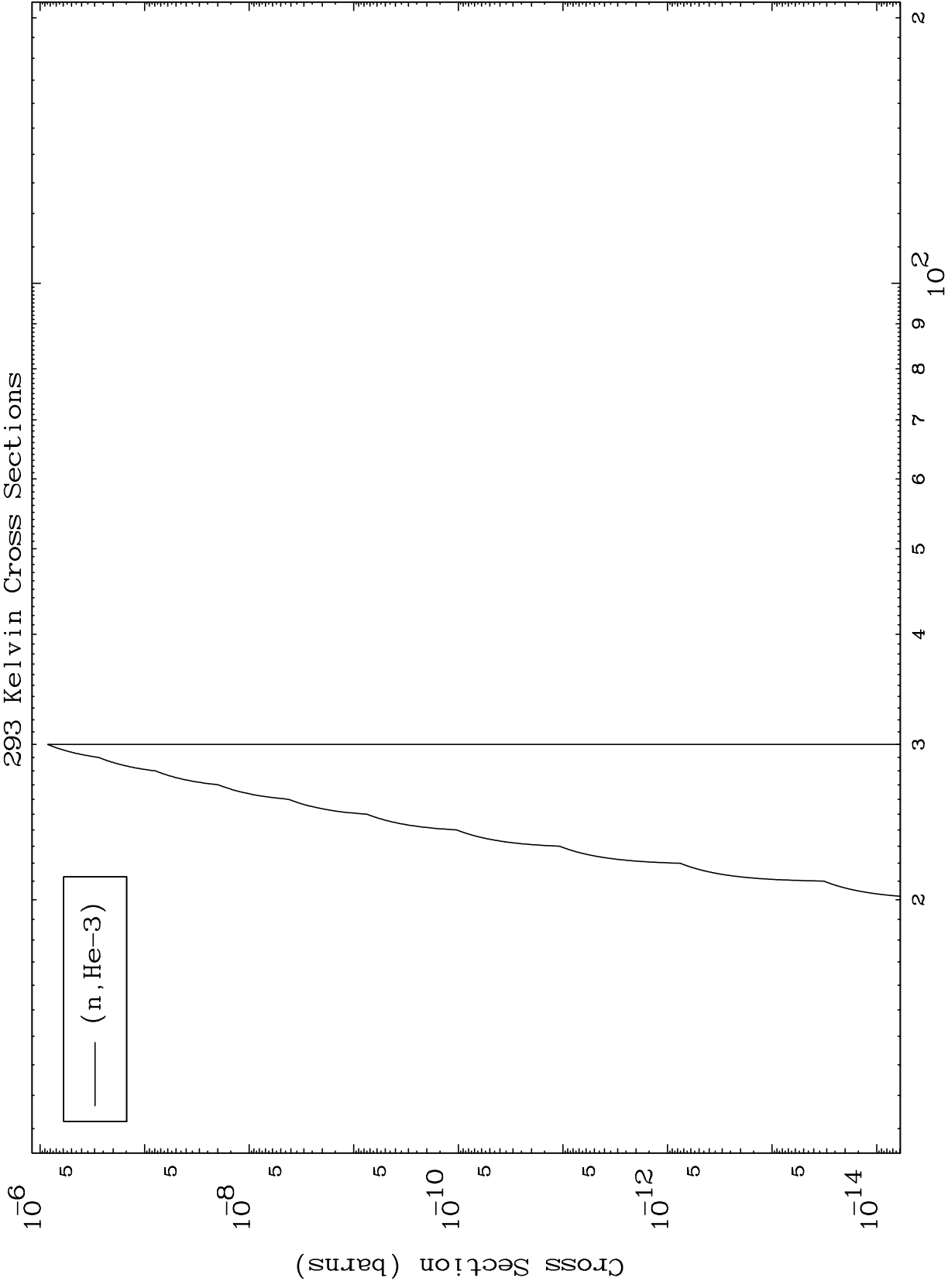
Incident Energy (MeV)

81-Tl-211

MAT 8149

(n,He3) Levels
293 Kelvin Cross Sections

81-Tl-211



15

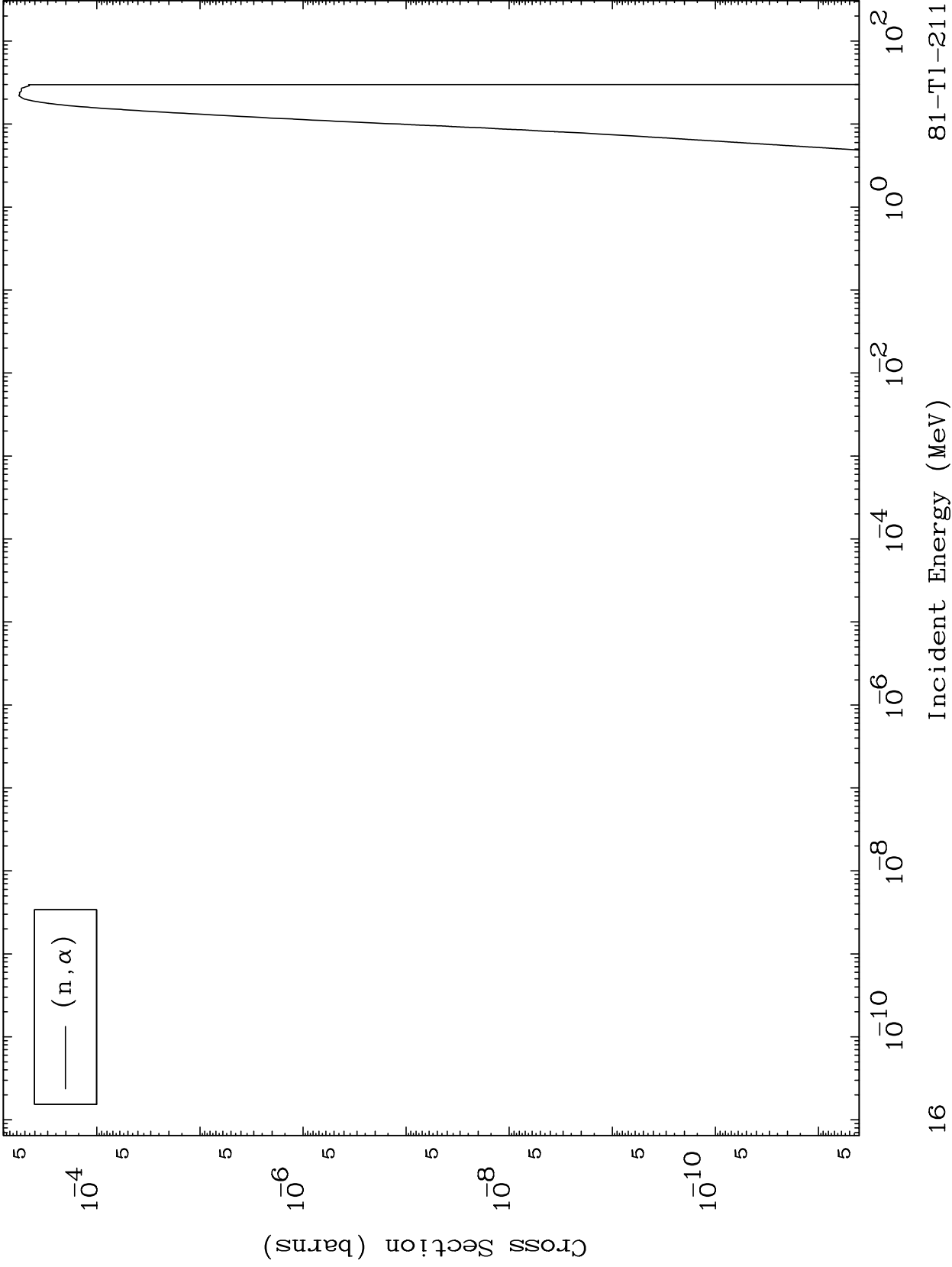
Incident Energy (MeV)

81-Tl-211

MAT 8149

(n, α) Levels
293 Kelvin Cross Sections

81-Tl-211



16

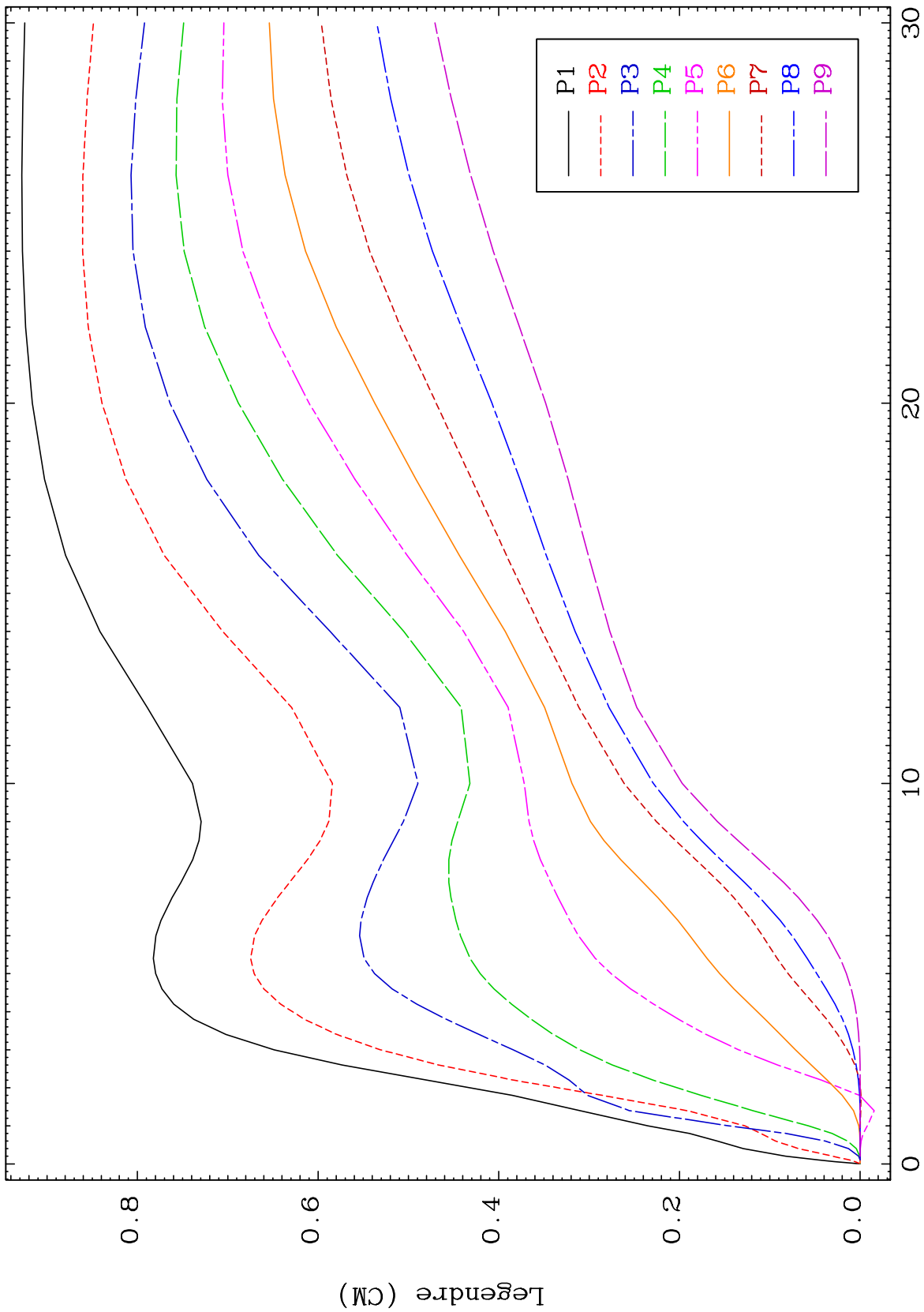
Incident Energy (MeV)

81-Tl-211

MAT 8149

81-Tl-211

Elastic Legendre Coefficients



17

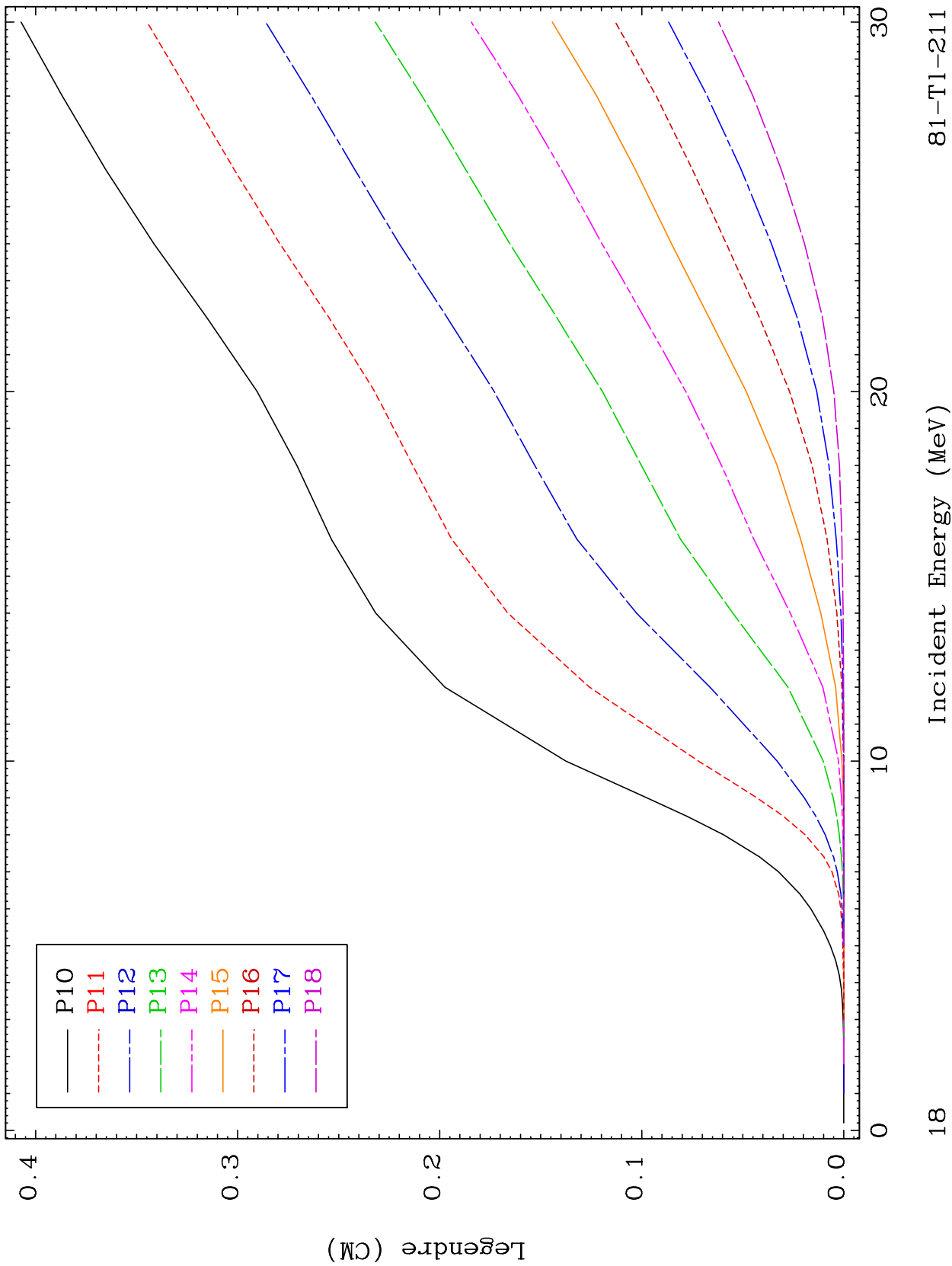
Incident Energy (MeV)

81-Tl-211

MAT 8149

Elastic Legendre Coefficients

81-Tl-211

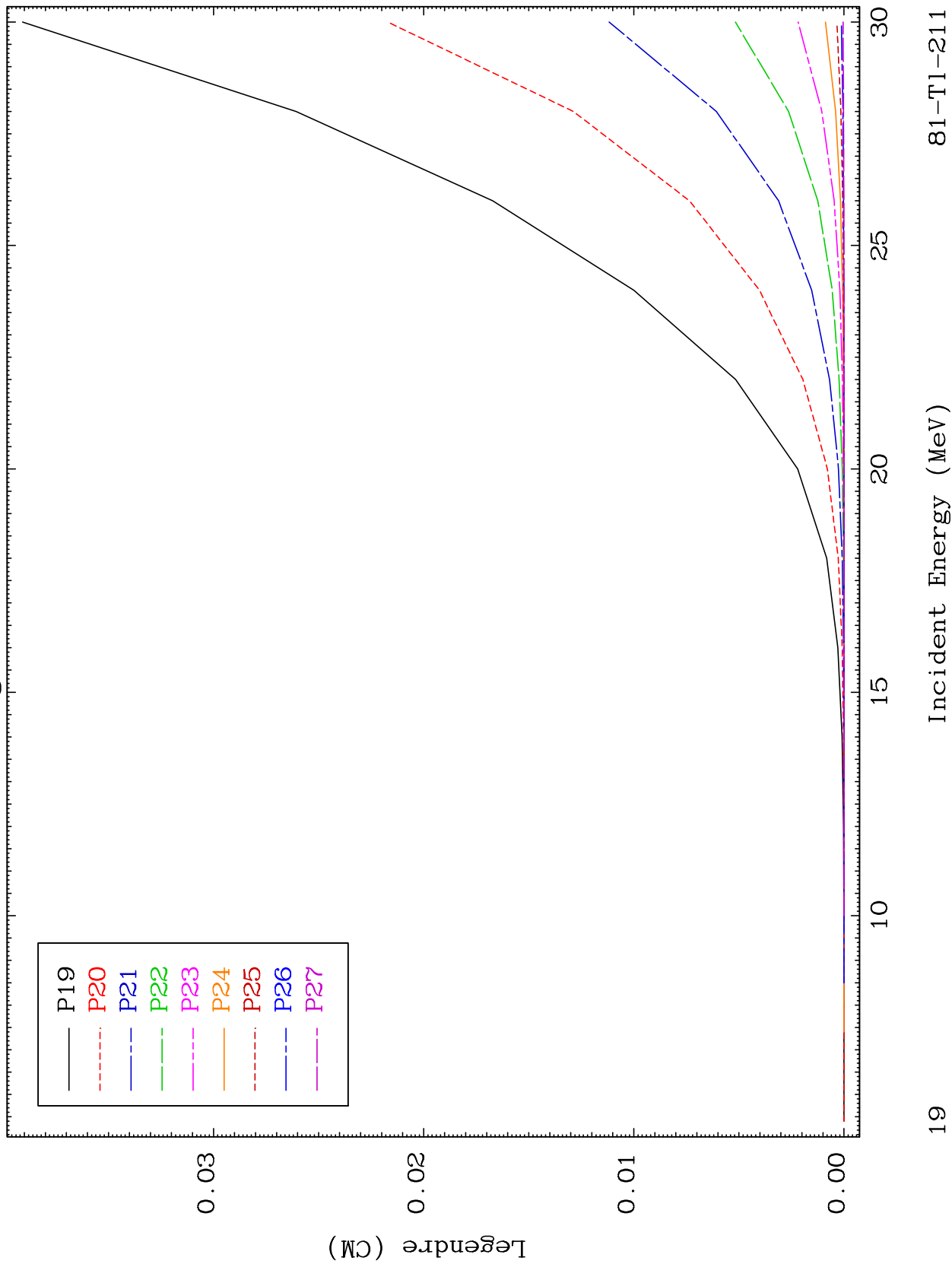


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MAT 8149

Elastic Legendre Coefficients

81-Tl-211



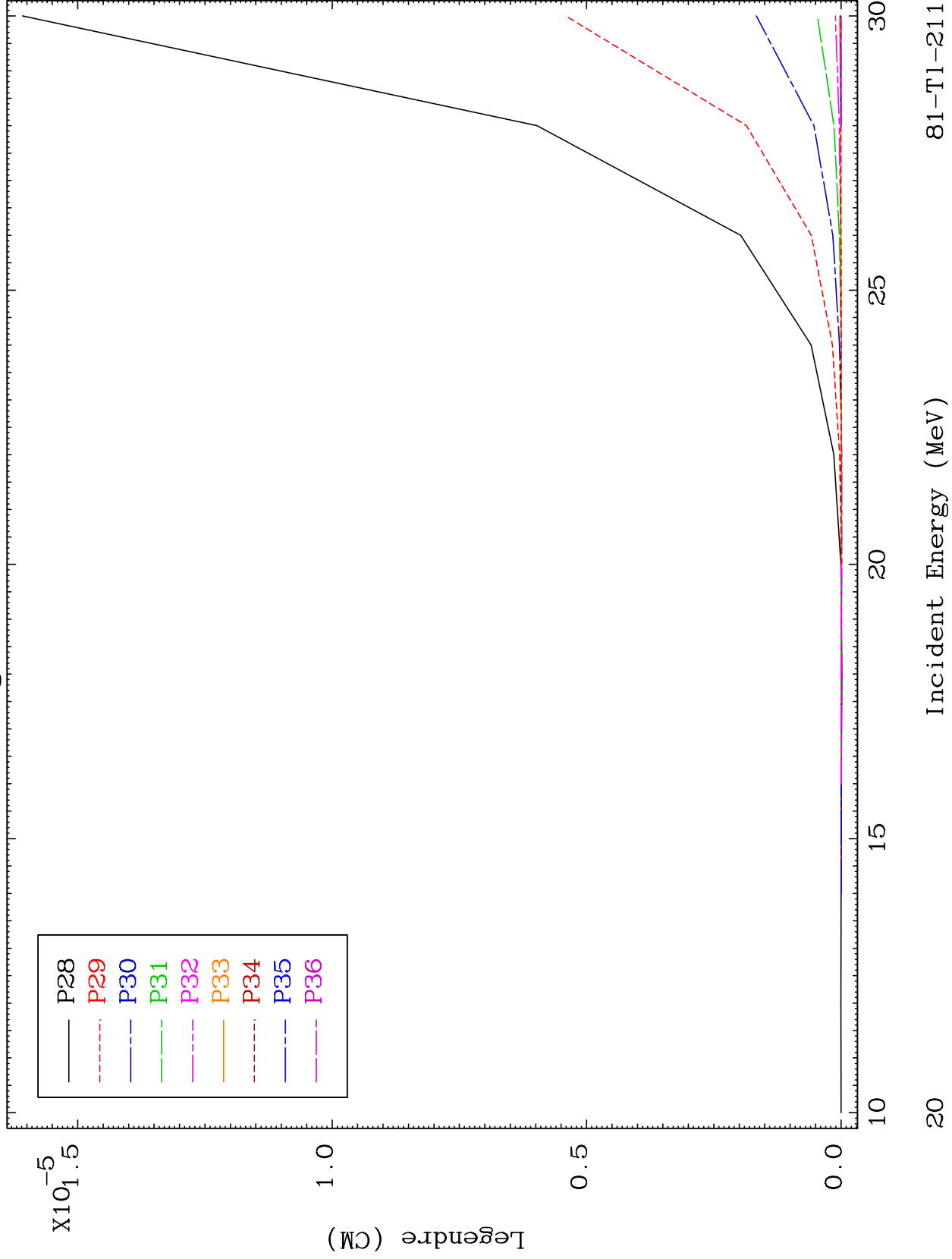
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81-Tl-211

MAT 8149

Elastic Legendre Coefficients

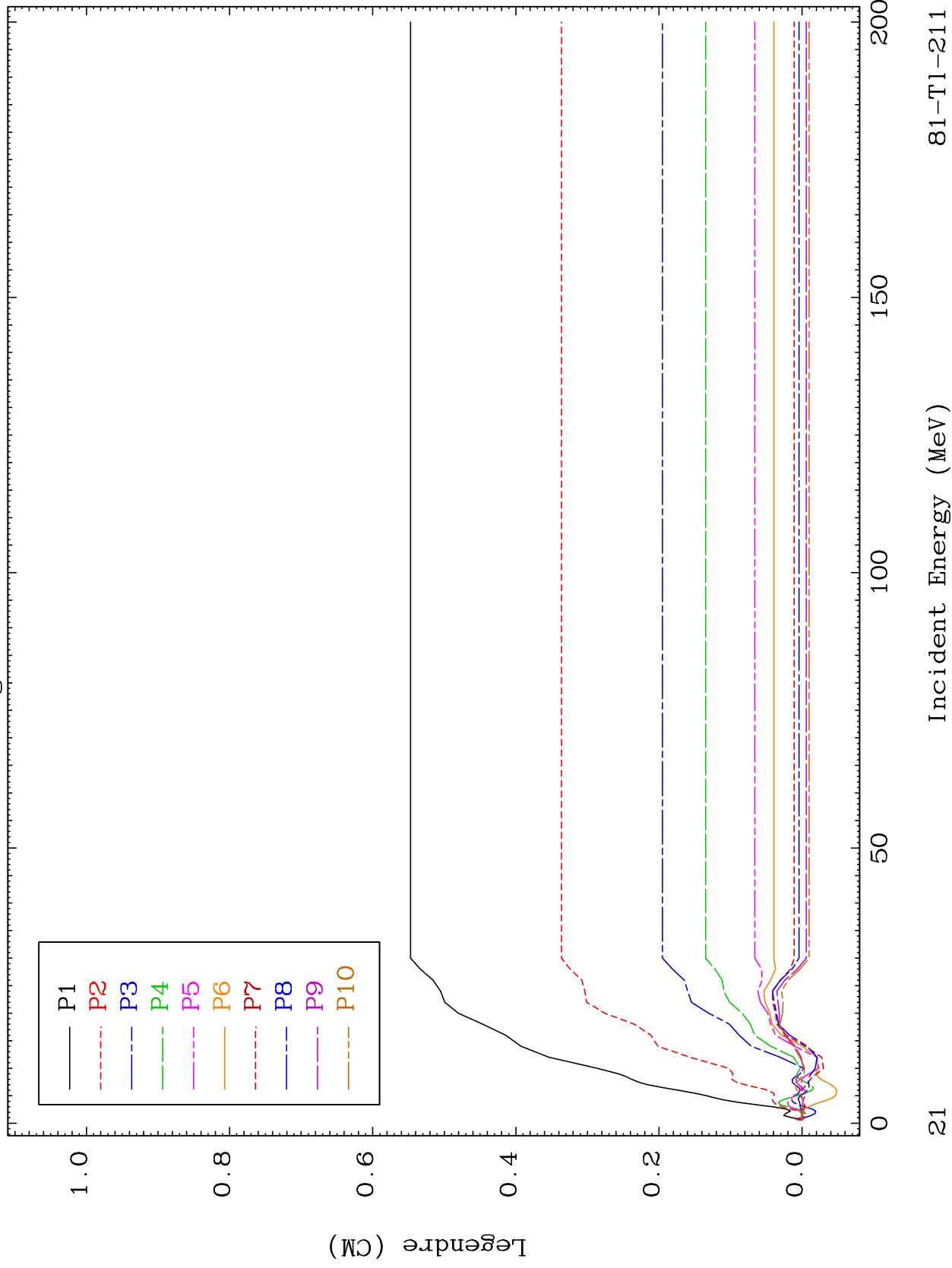
81-Tl-211



MAT 8149

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

81-Tl-211



21

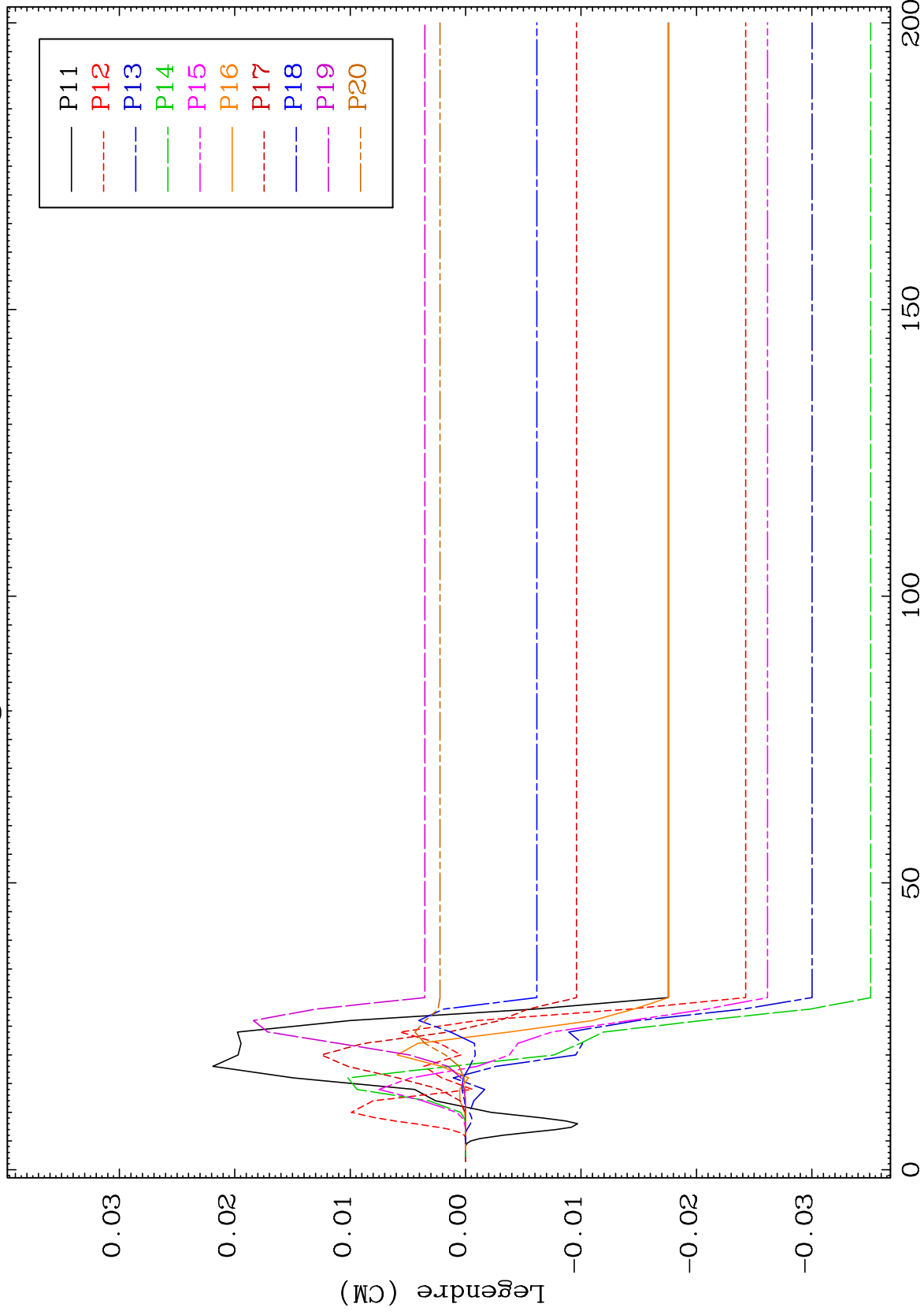
Incident Energy (MeV)

81-Tl-211

MAT 8149

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

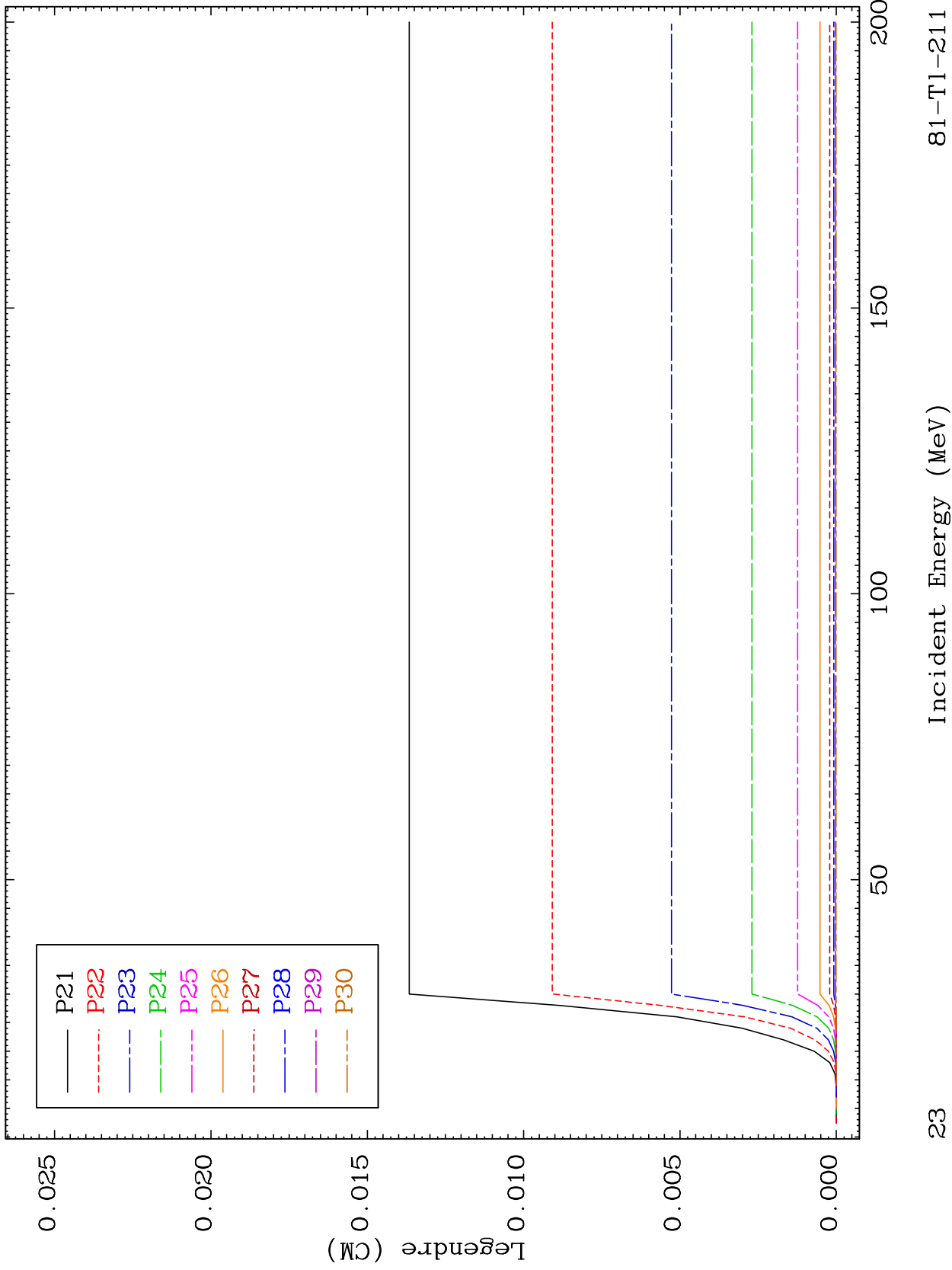
81-Tl-211



22

Incident Energy (MeV)

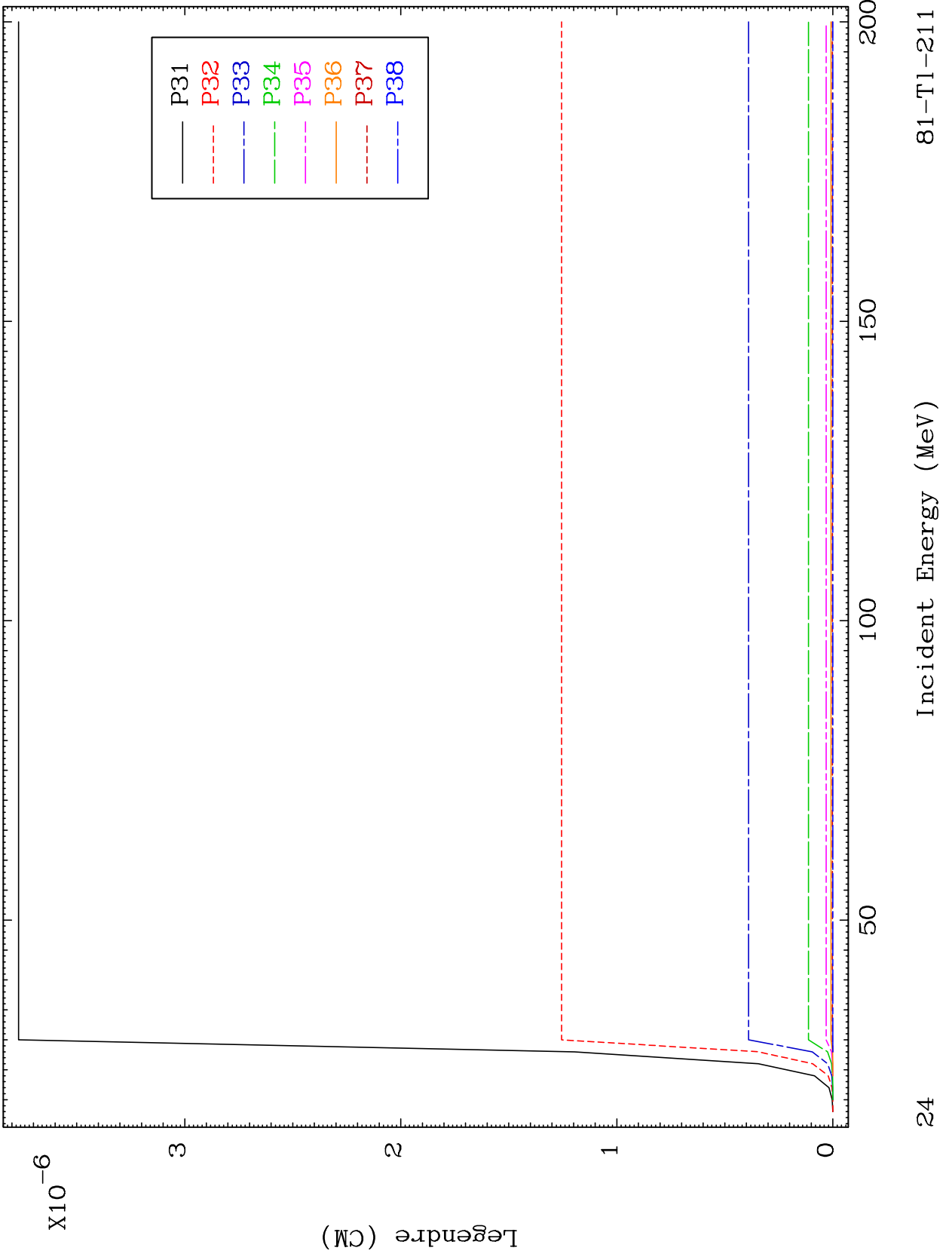
81-Tl-211



MAT 8149

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

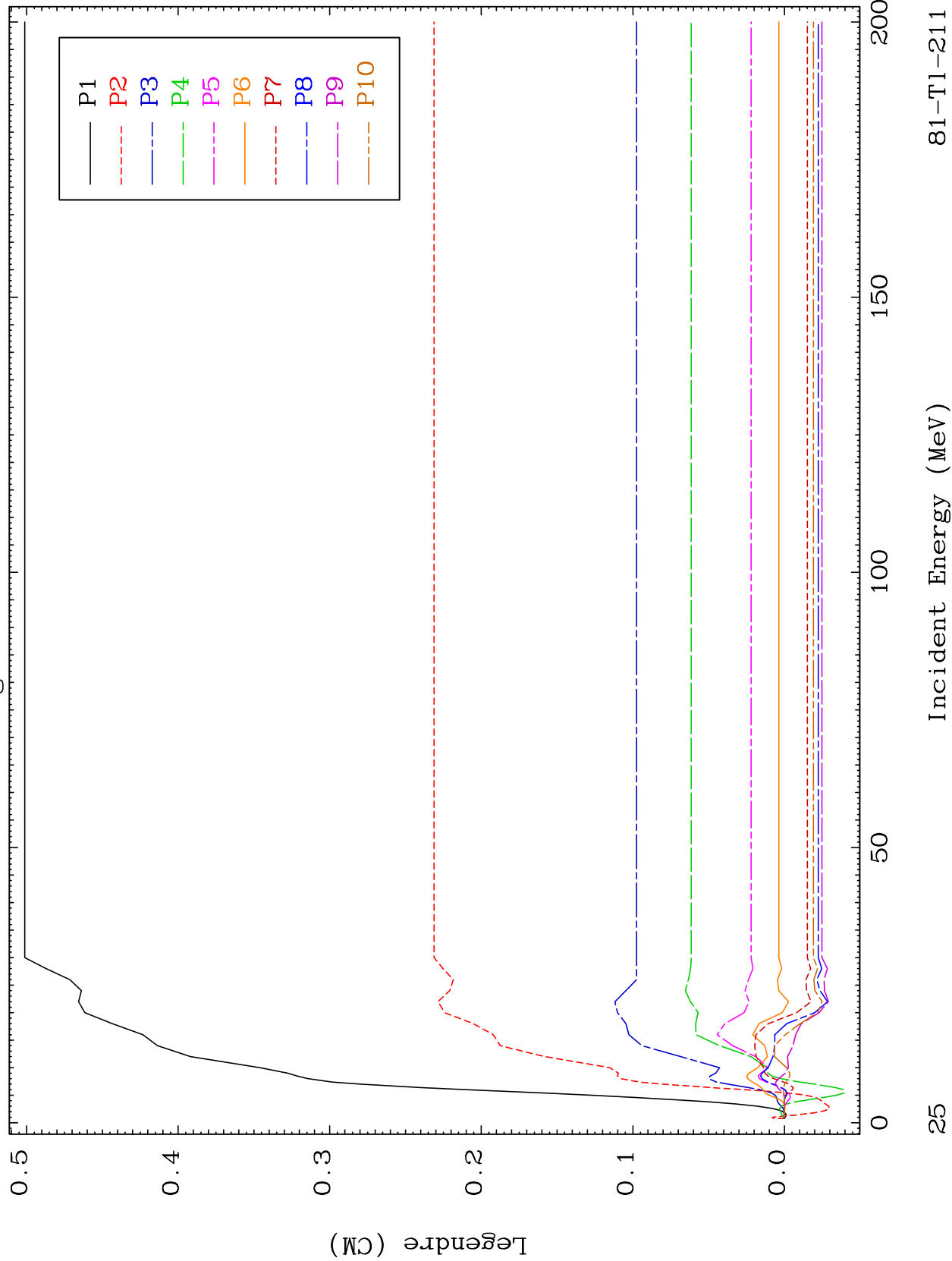
81-Tl-211



MAT 8149

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

81-Tl-211



81-Tl-211

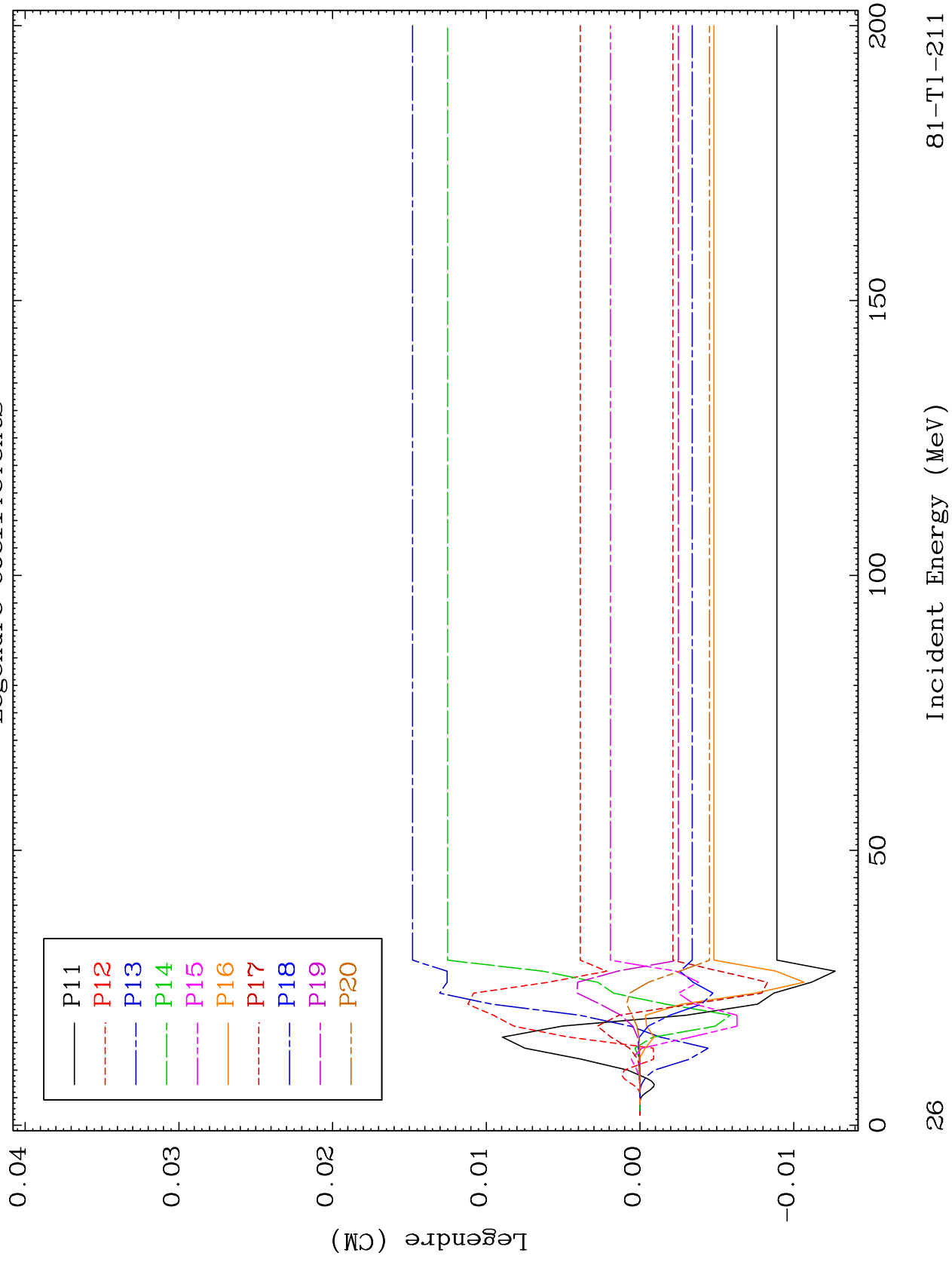
Incident Energy (MeV)

25

MAT 8149

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

81-Tl-211



26

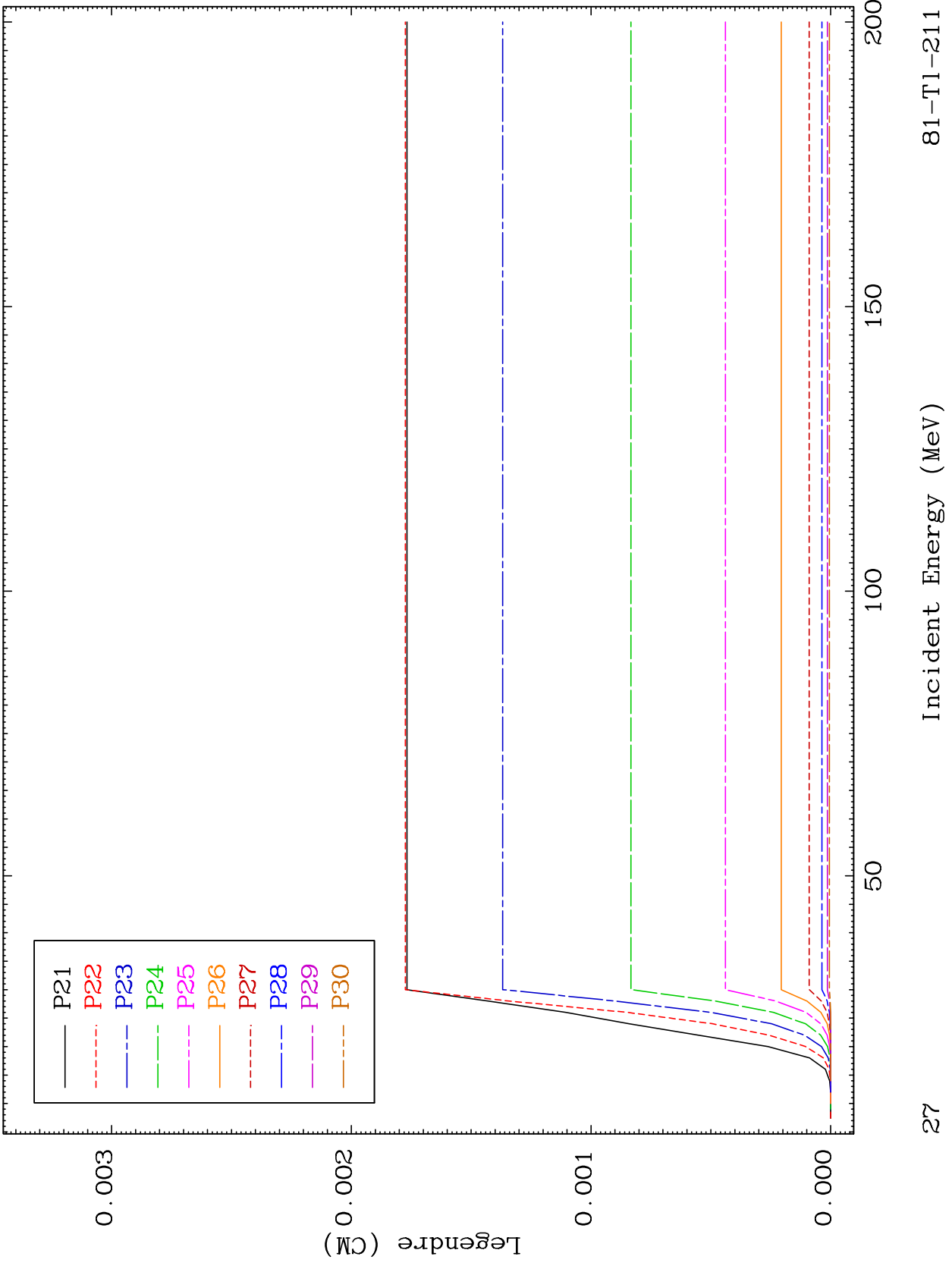
Incident Energy (MeV)

81-Tl-211

MAT 8149

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

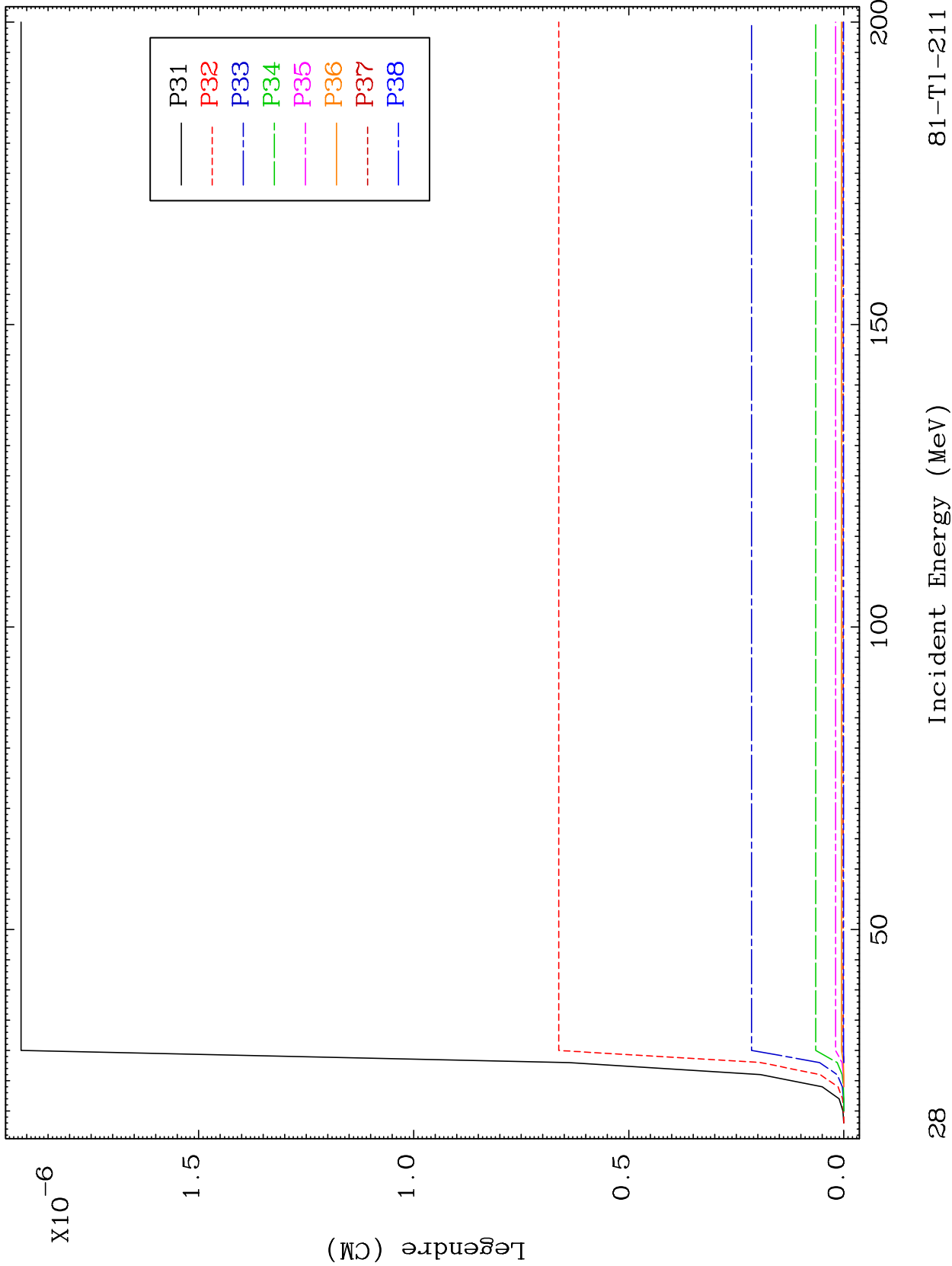
81-Tl-211



MAT 8149

81-Tl-211

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



28

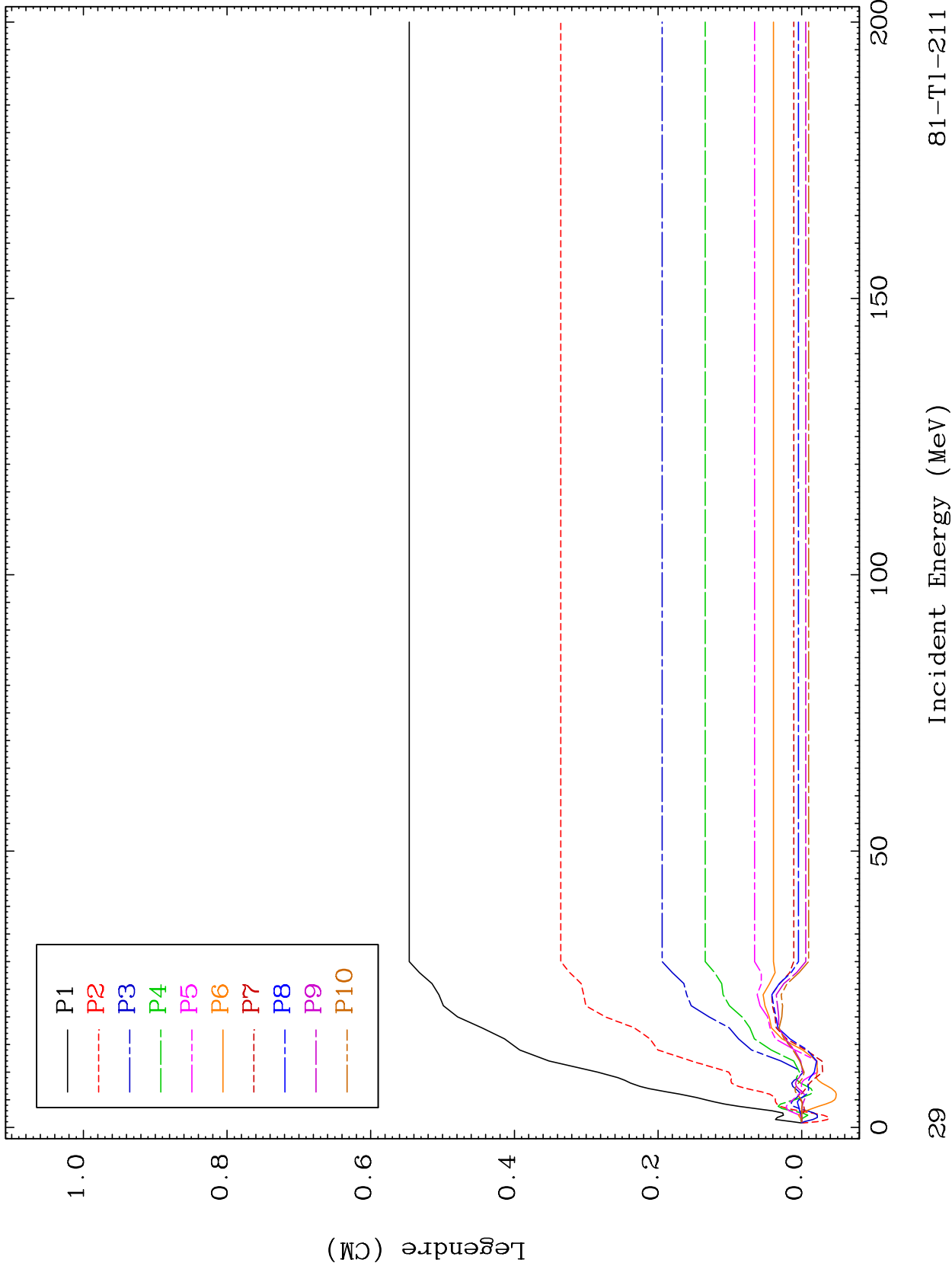
Incident Energy (MeV)

81-Tl-211

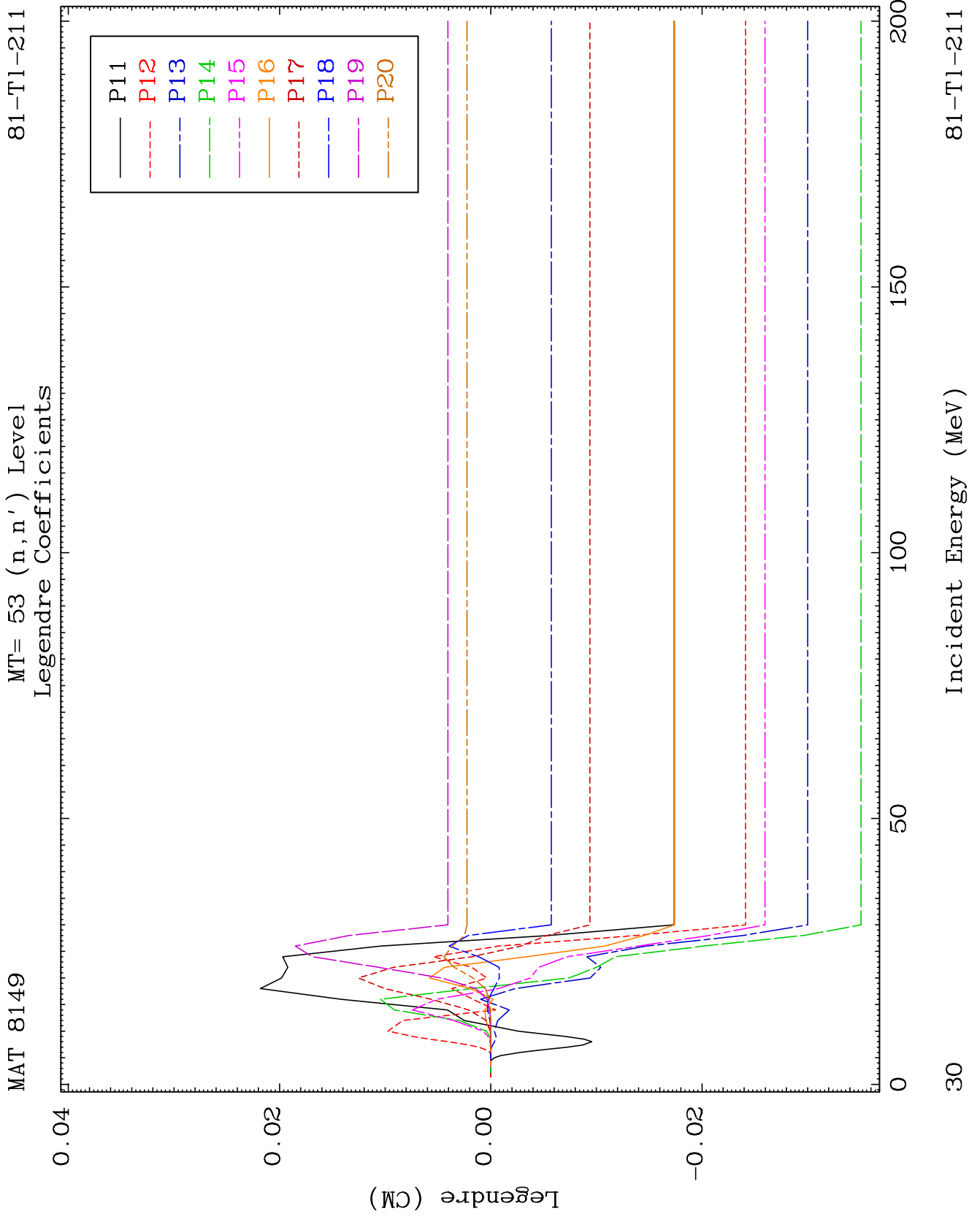
MAT 8149

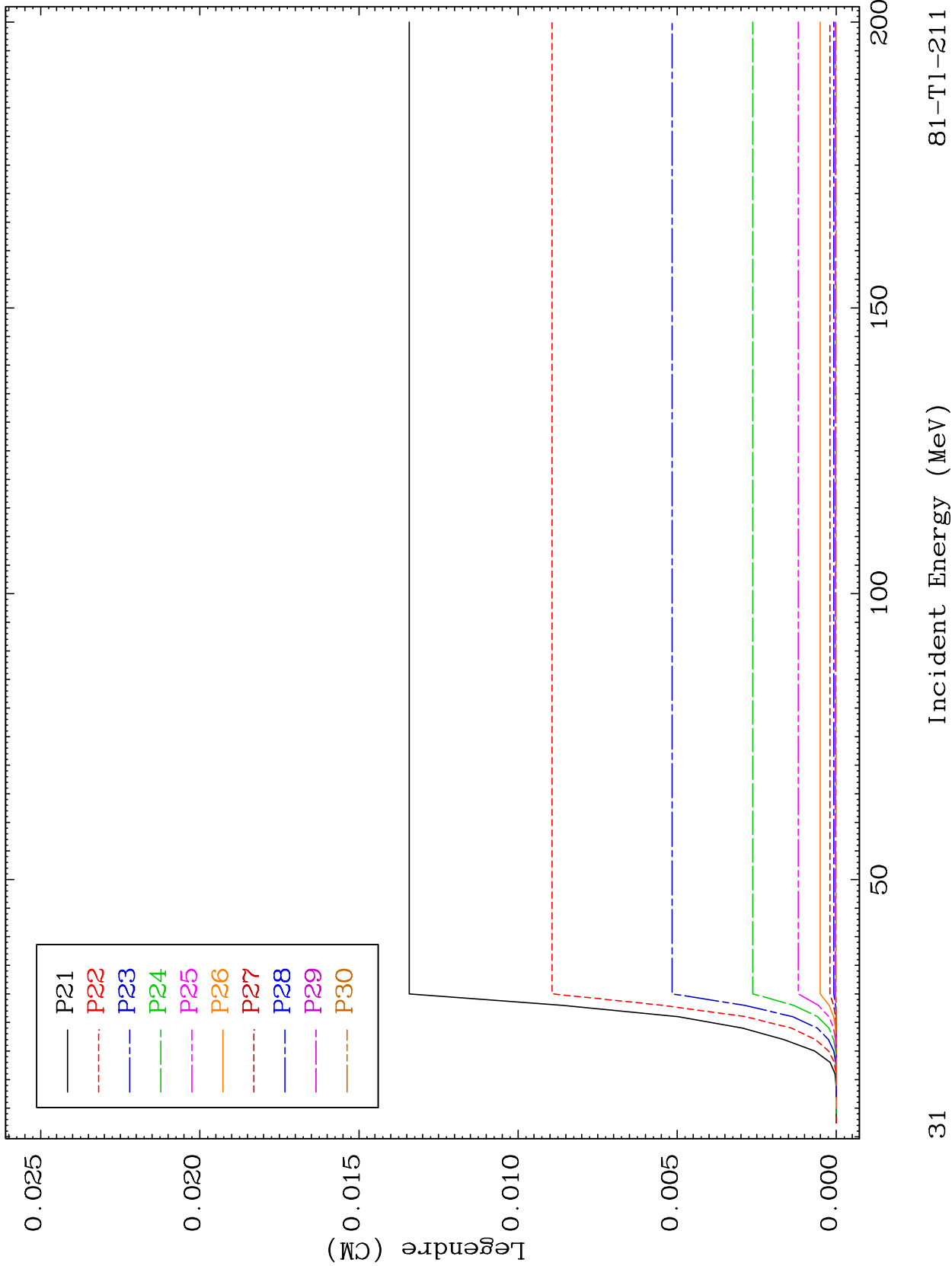
MT= 53 (n,n') Level
Legendre Coefficients

81-Tl-211



29

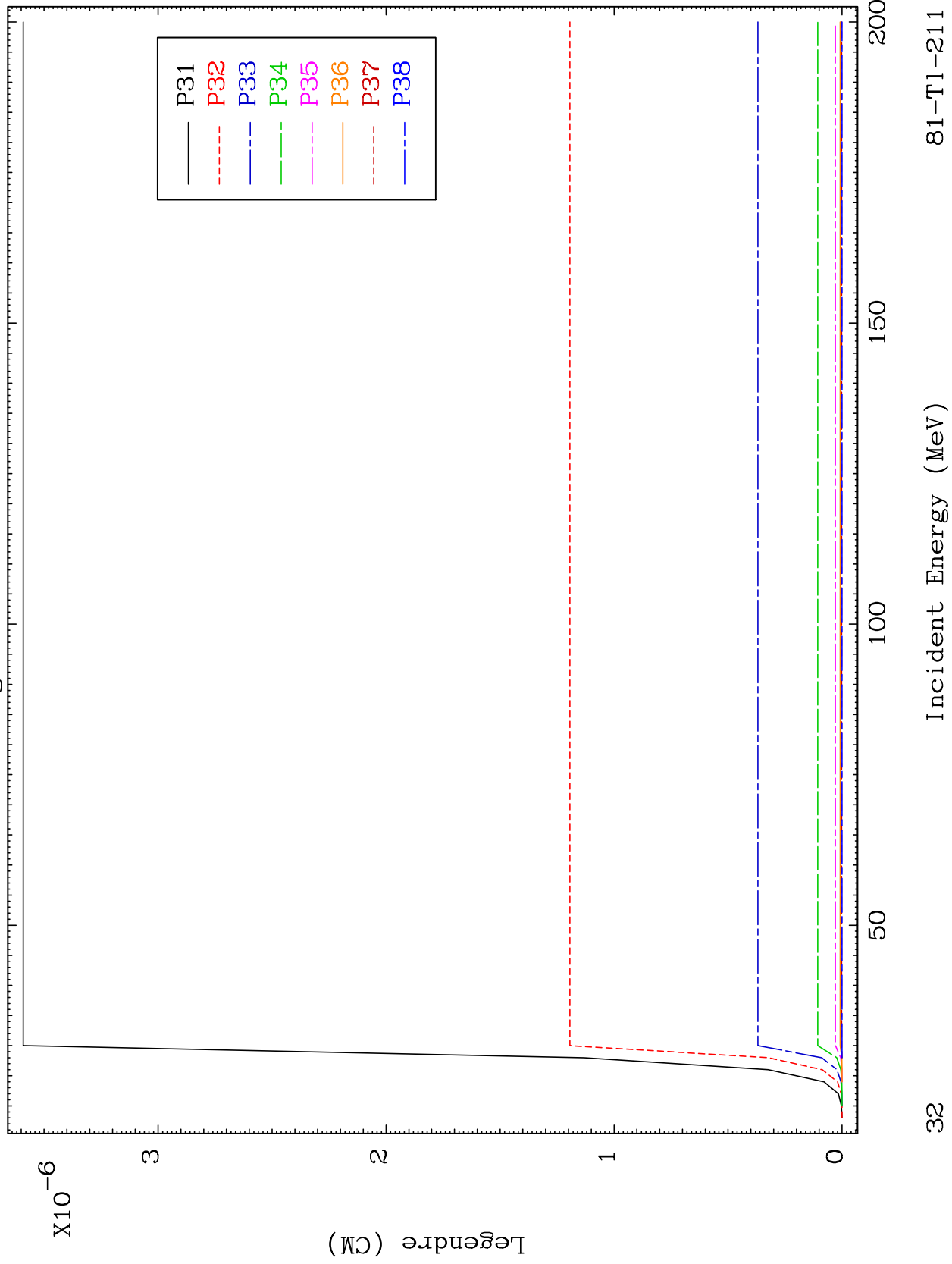




MAT 8149

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

81-Tl-211



32

Incident Energy (MeV)

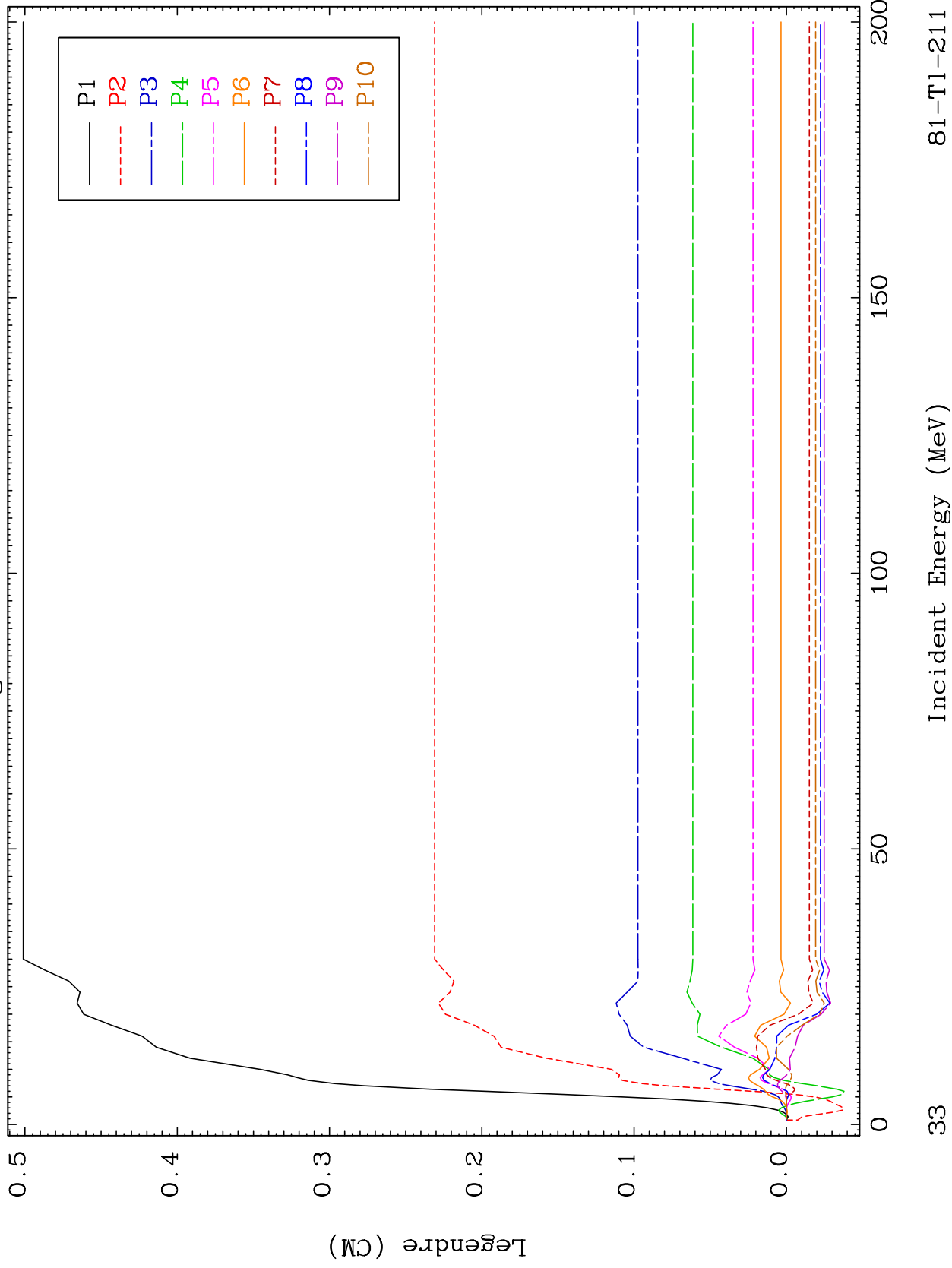
81-Tl-211

MAT 8149

MT= 54 (n,n') Level

81-Tl-211

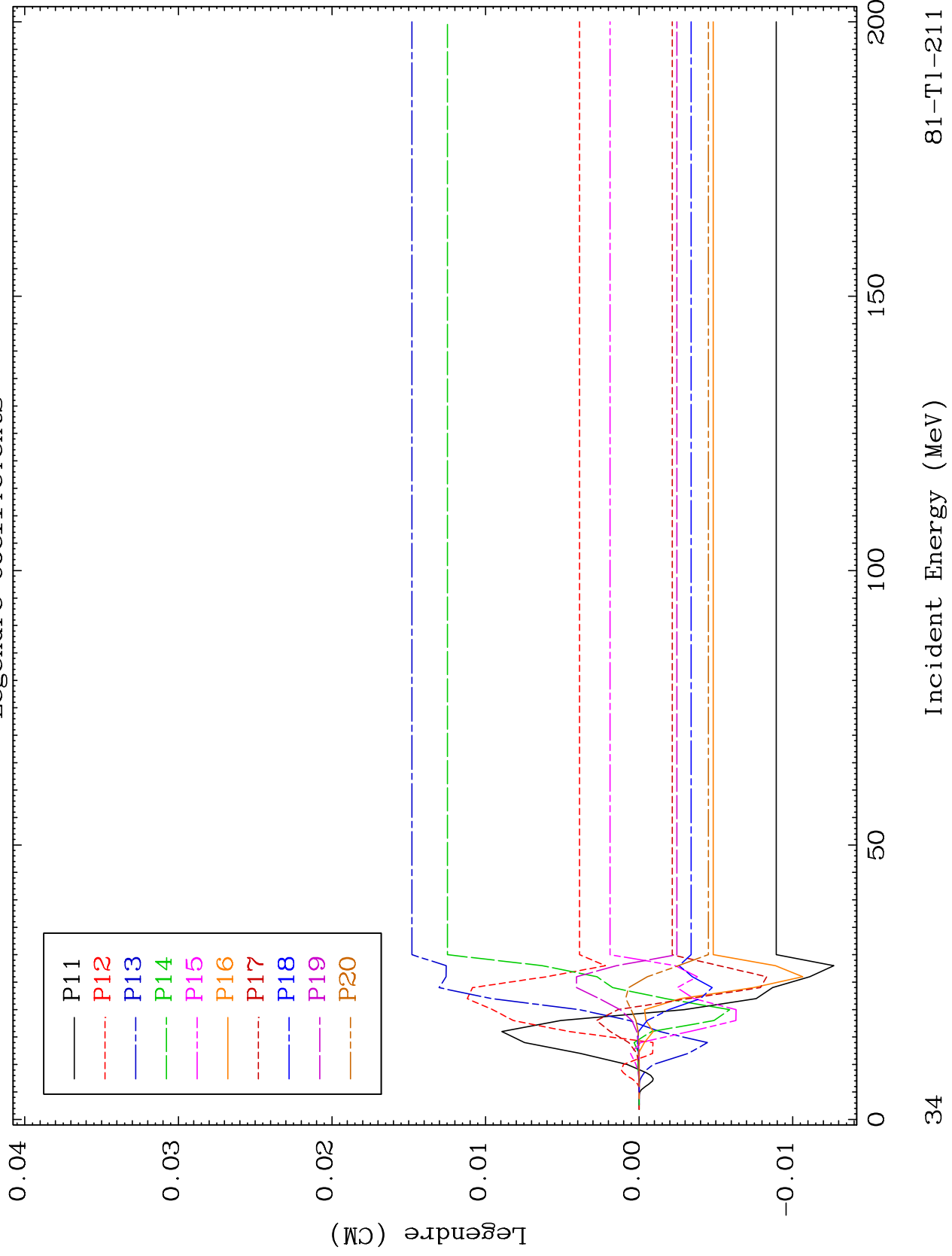
Legendre Coefficients



MAT 8149

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

81-Tl-211



34

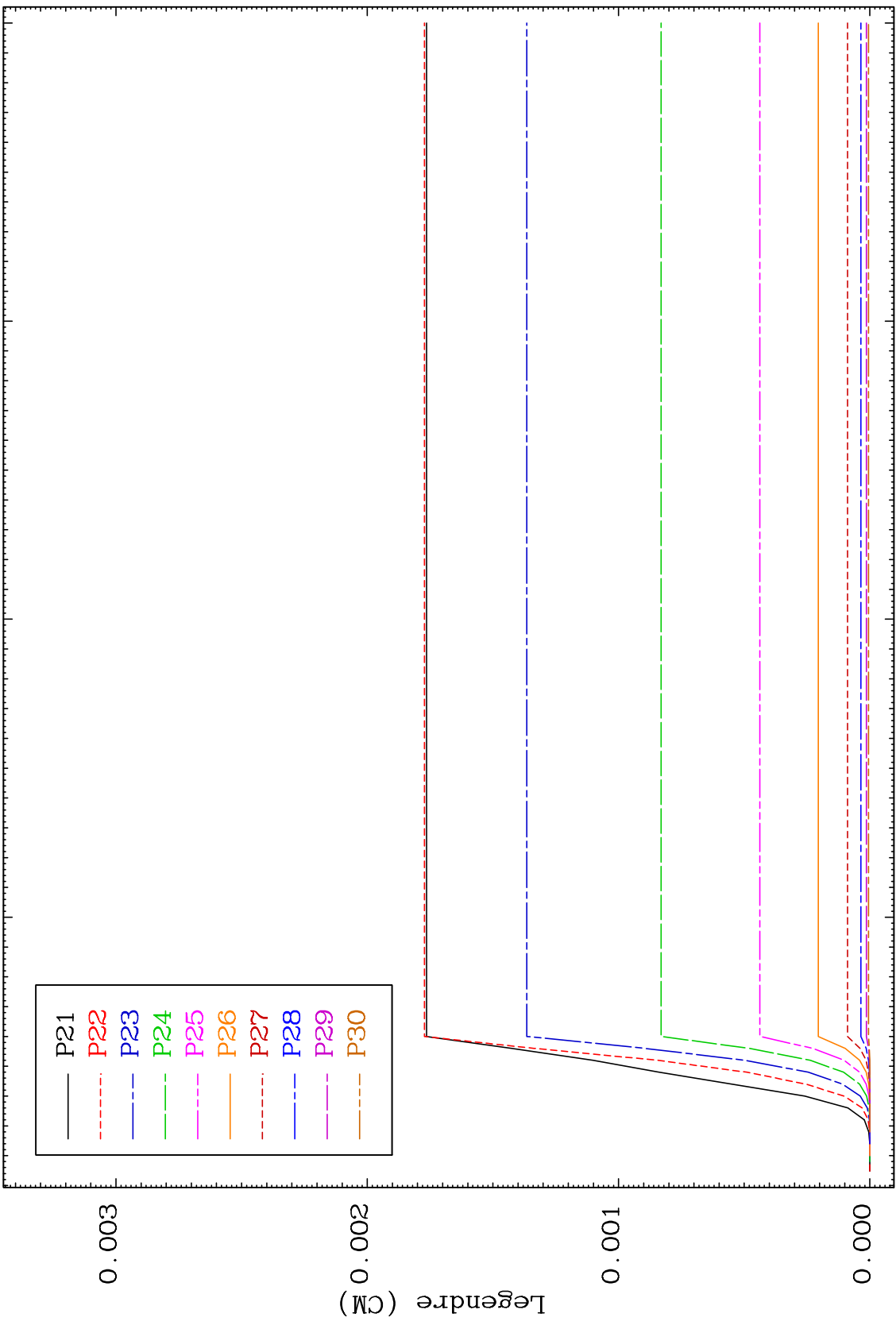
Incident Energy (MeV)

81-Tl-211

MAT 8149

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

81-Tl-211



200

150

100

50

Incident Energy (MeV)

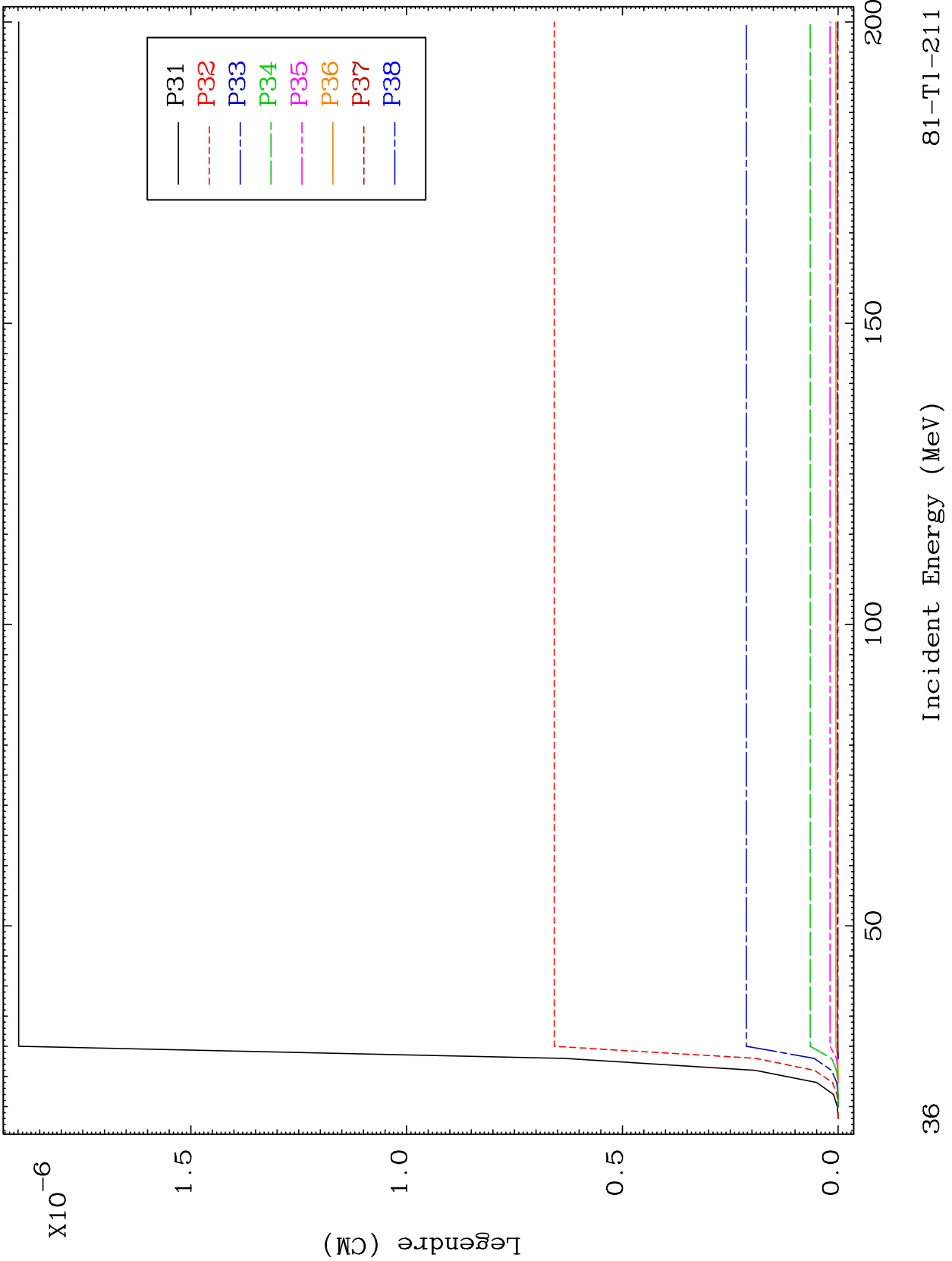
81-Tl-211

35

MAT 8149

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

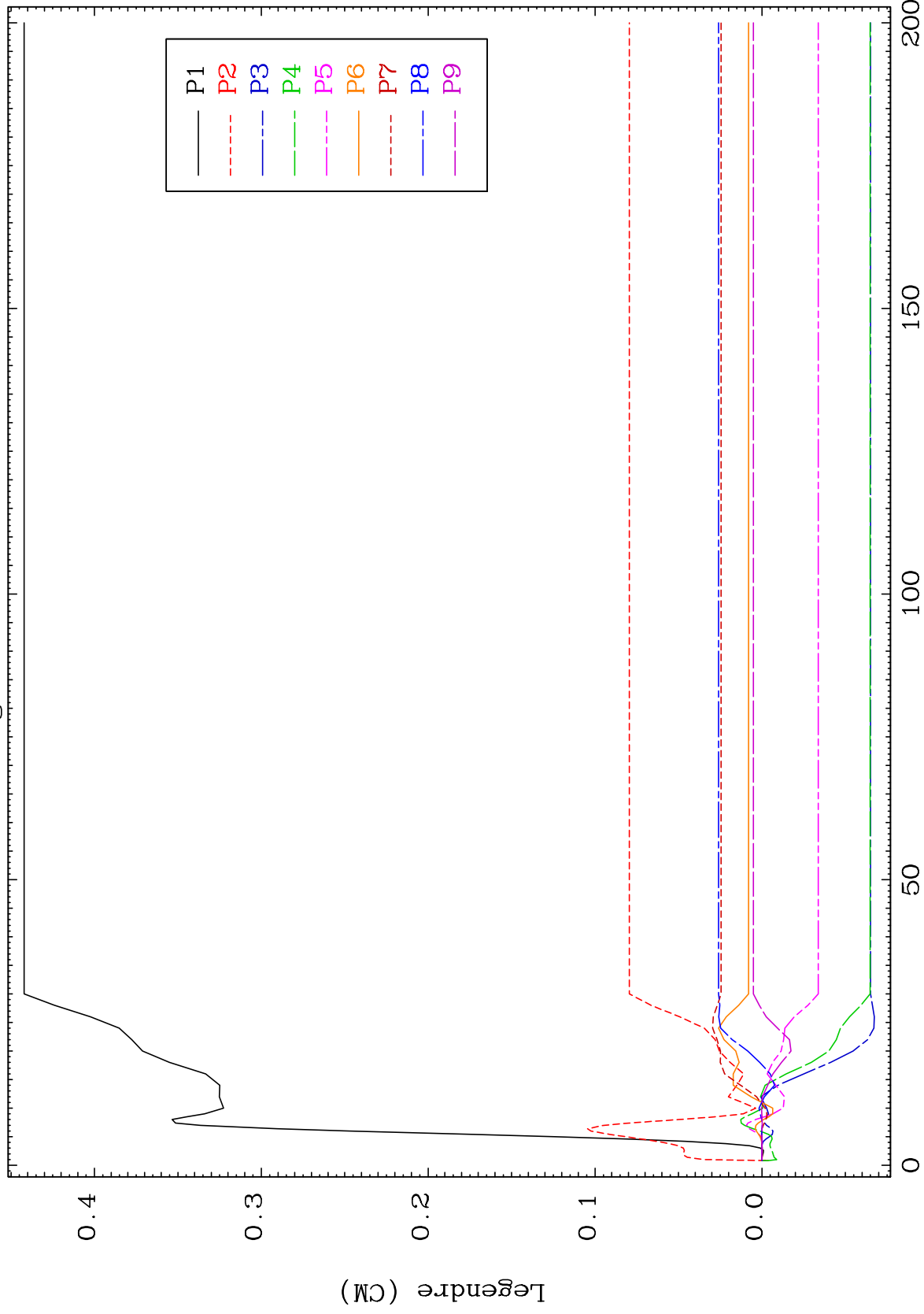
81-T1-211



MAT 8149

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

81-Tl-211



37

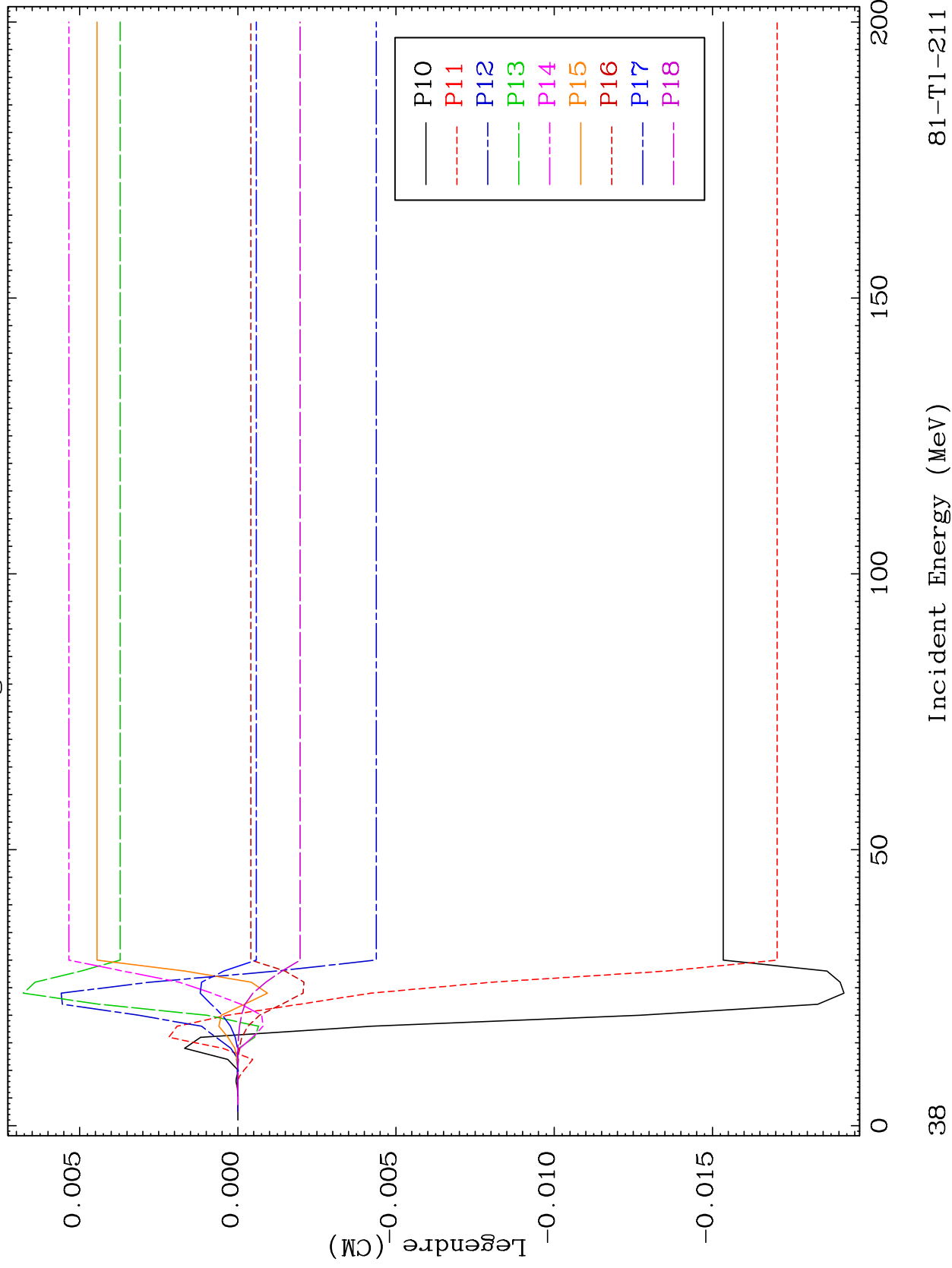
Incident Energy (MeV)

81-Tl-211

MAT 8149

81-Tl-211

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



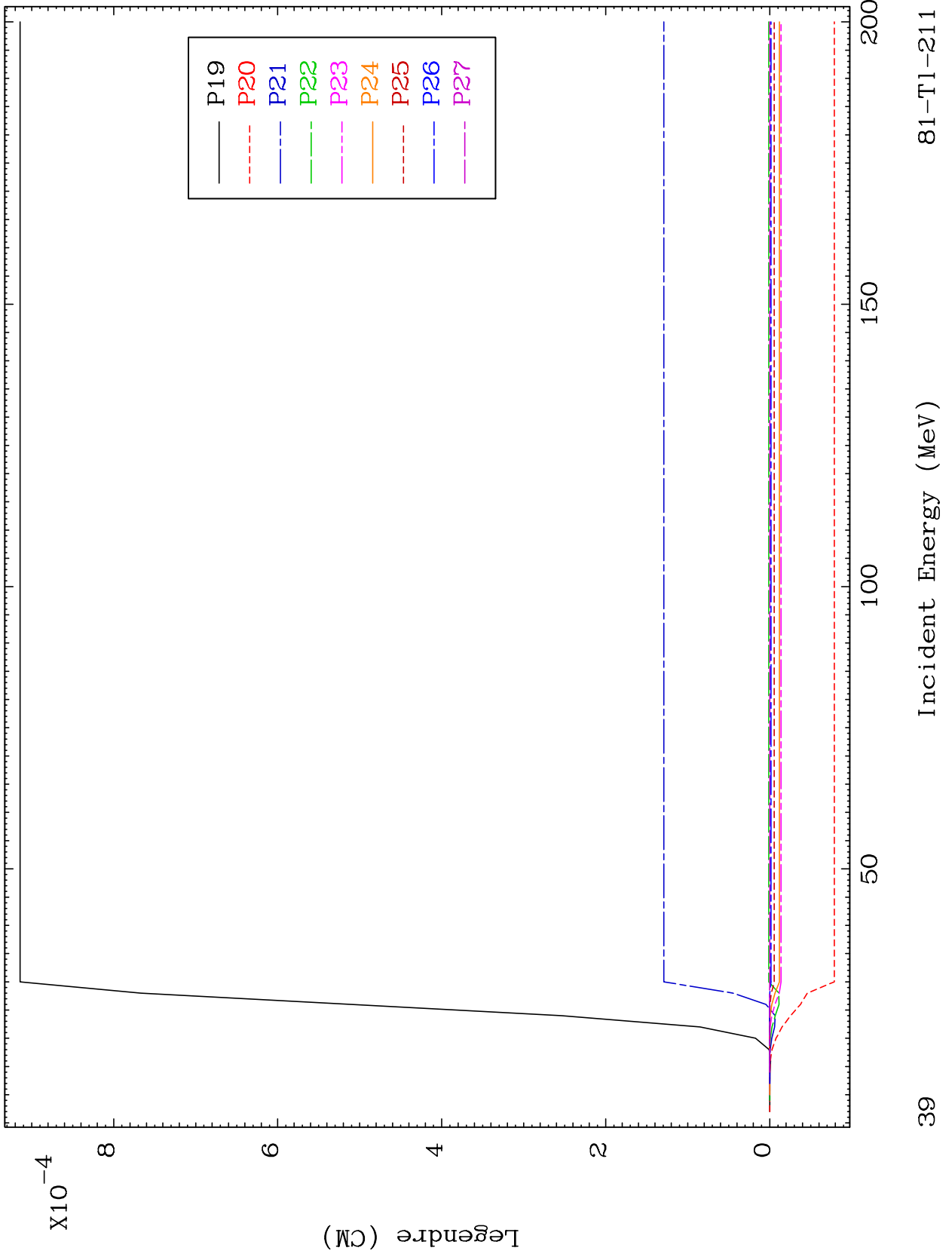
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81-Tl-211

MAT 8149

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

81-Tl-211



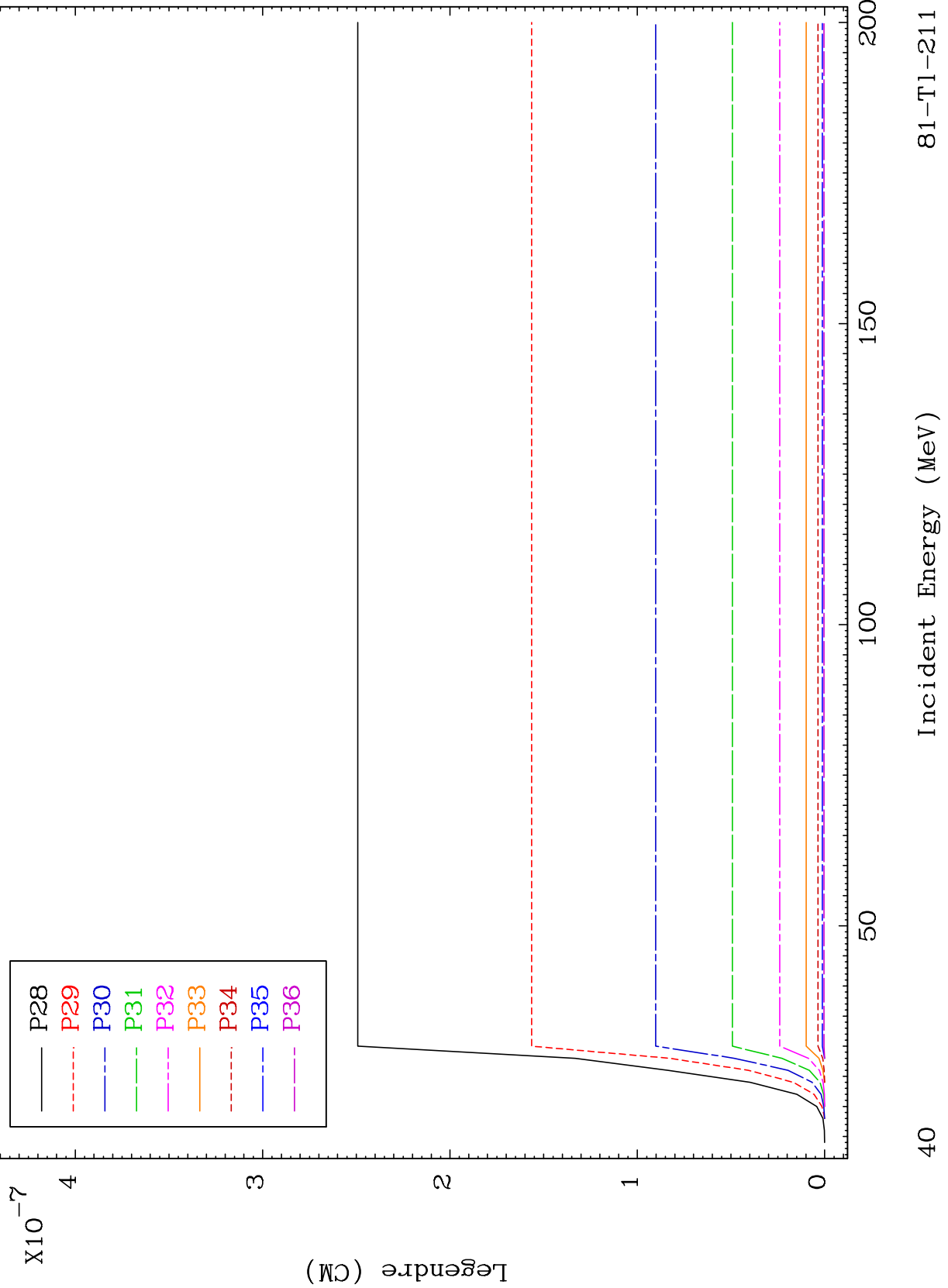
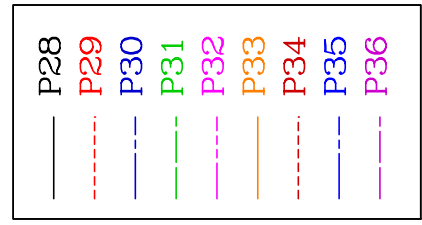
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81-Tl-211

MAT 8149

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

81-Tl-211

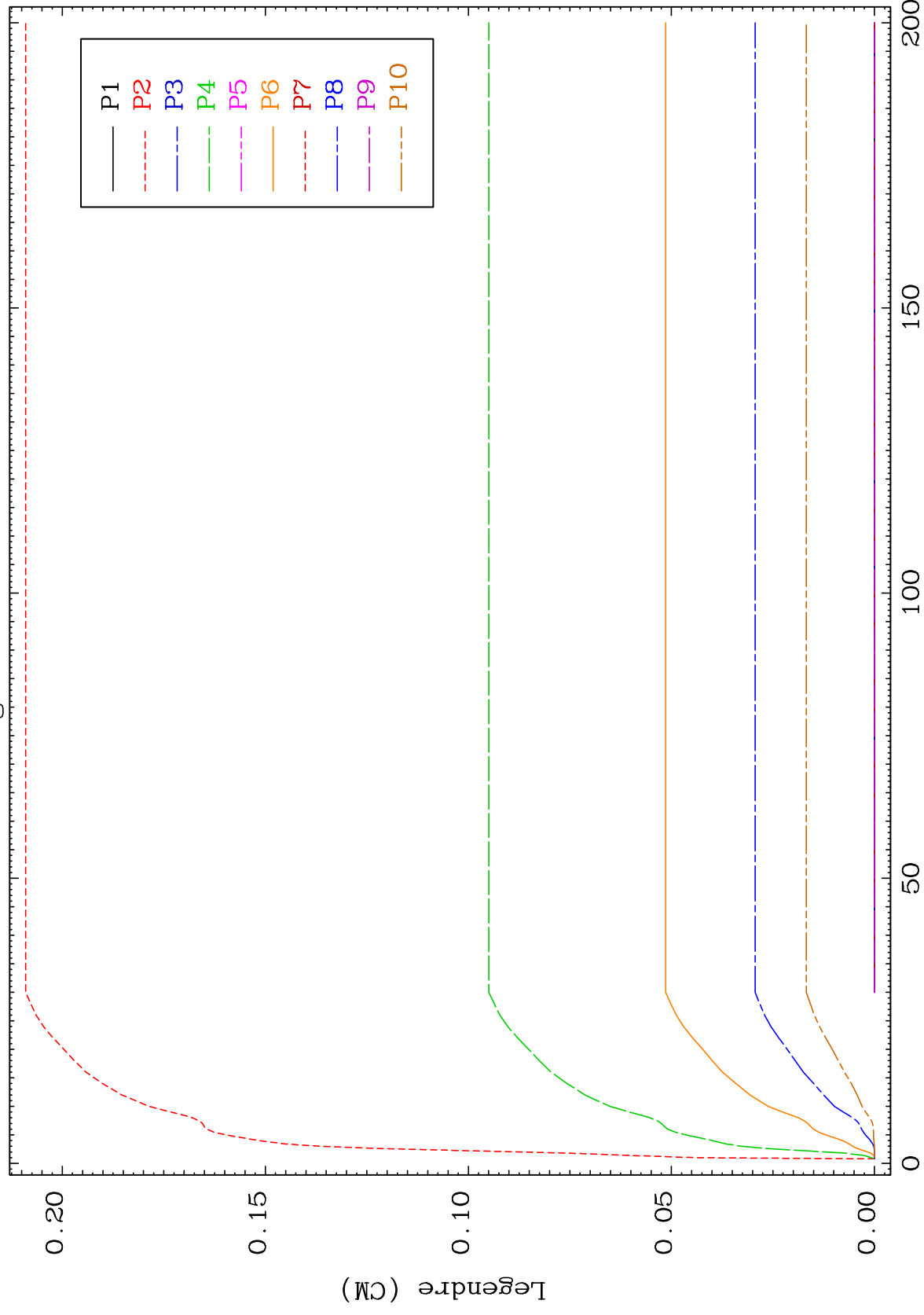


81-Tl-211

MAT 8149

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

81-Tl-211



41

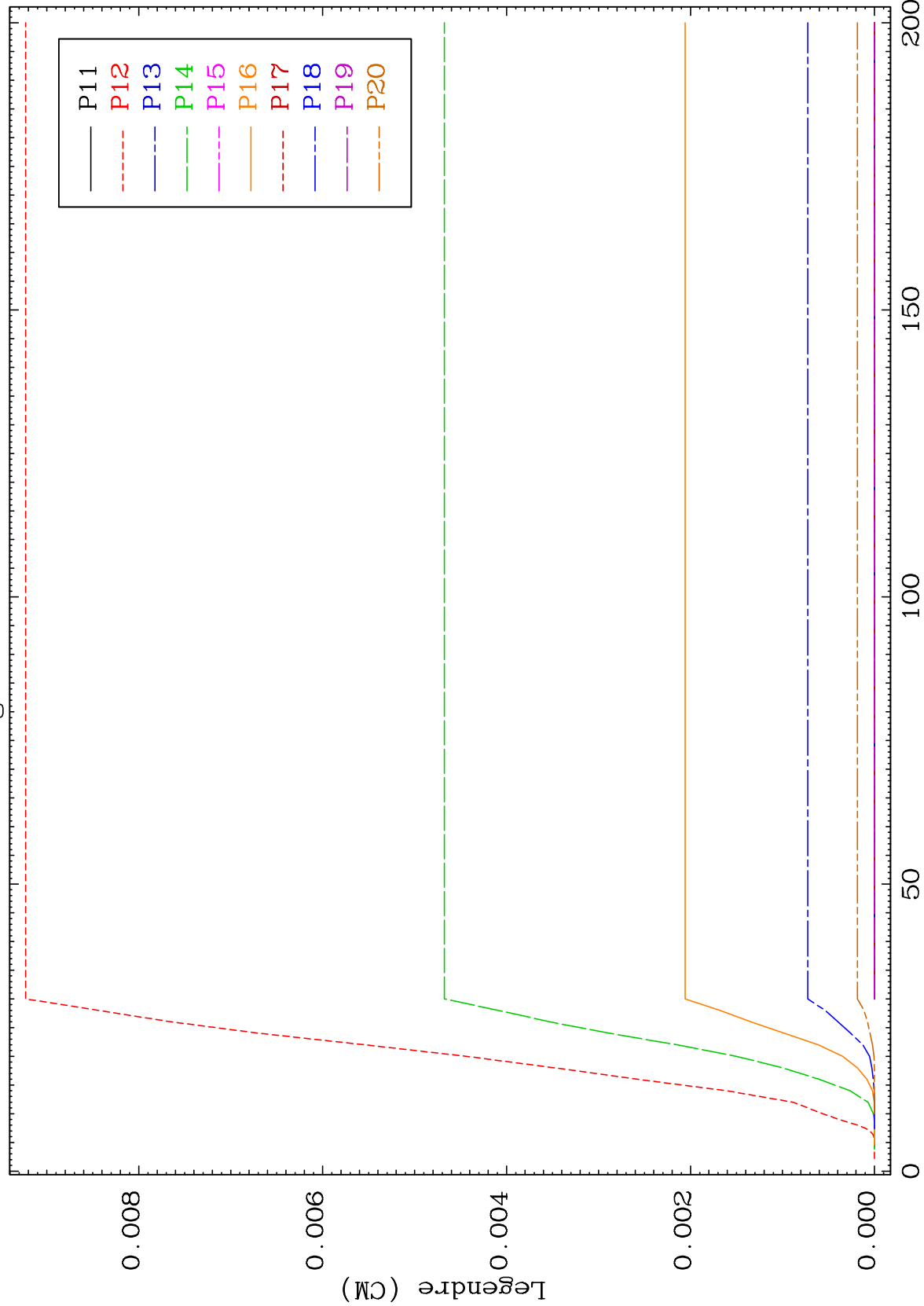
Incident Energy (MeV)

81-Tl-211

MAT 8149

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

81-Tl-211



42

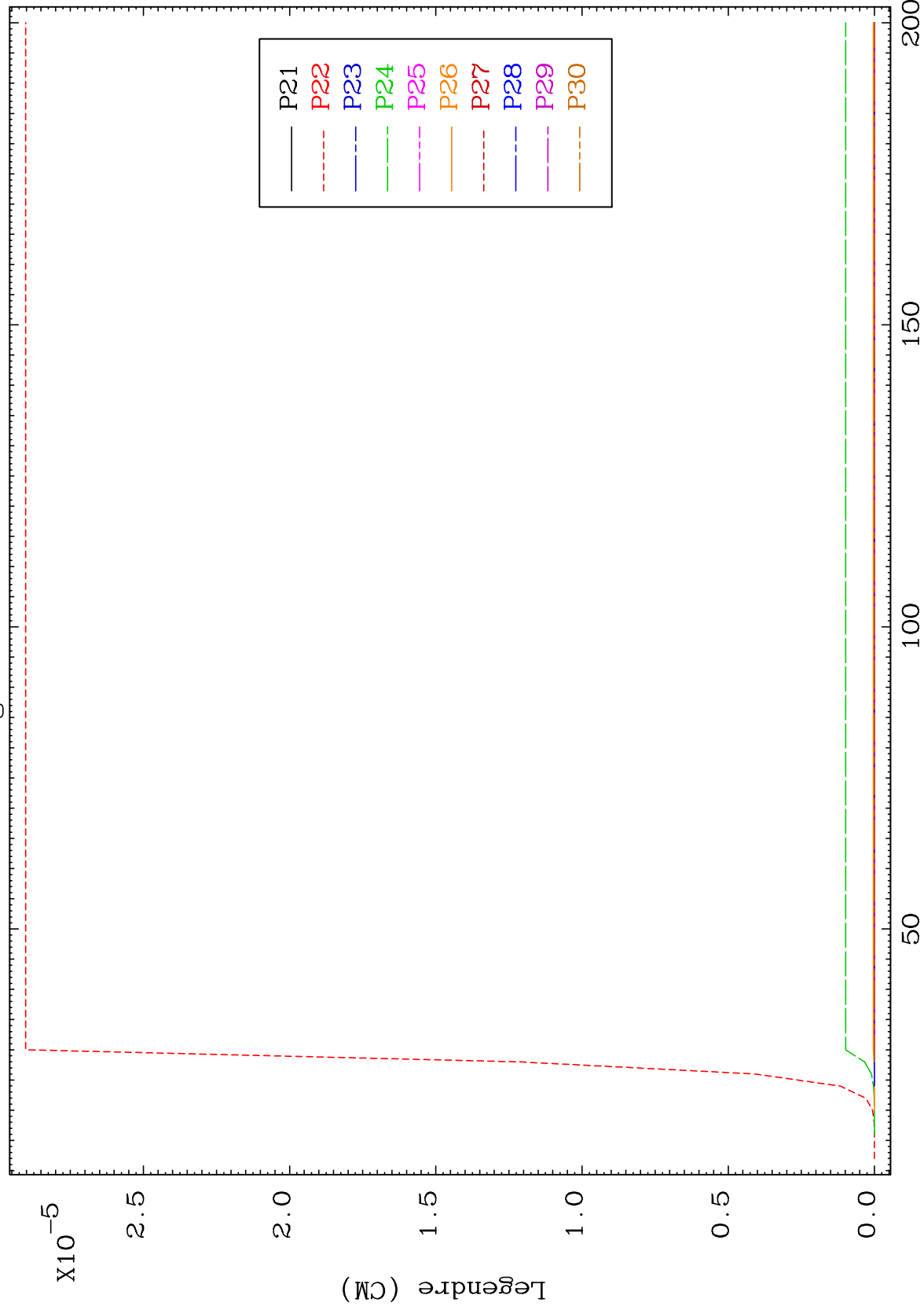
Incident Energy (MeV)

81-Tl-211

MAT 8149

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

81-Tl-211



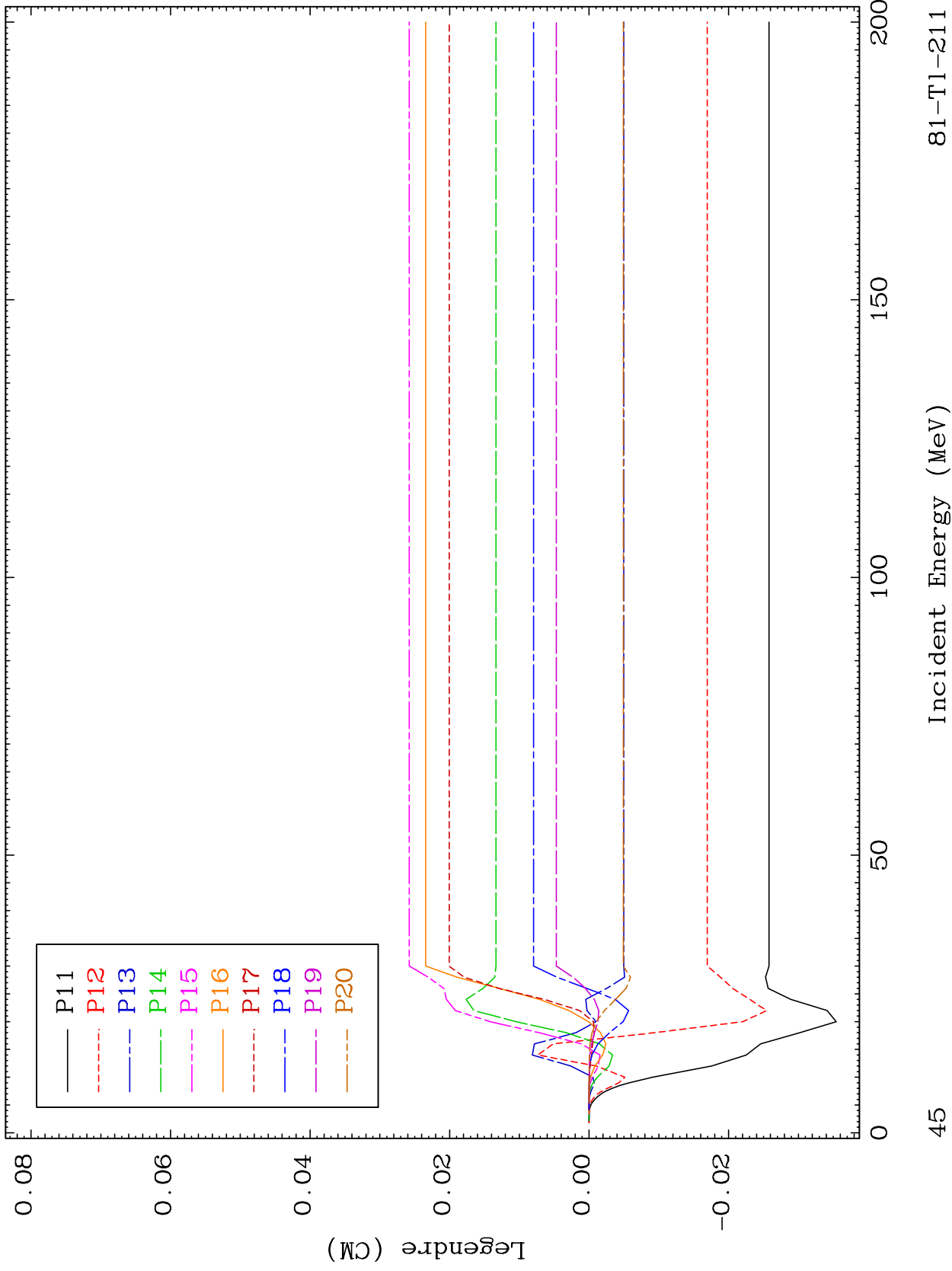
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81-Tl-211

MAT 8149

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

81-Tl-211



81-Tl-211

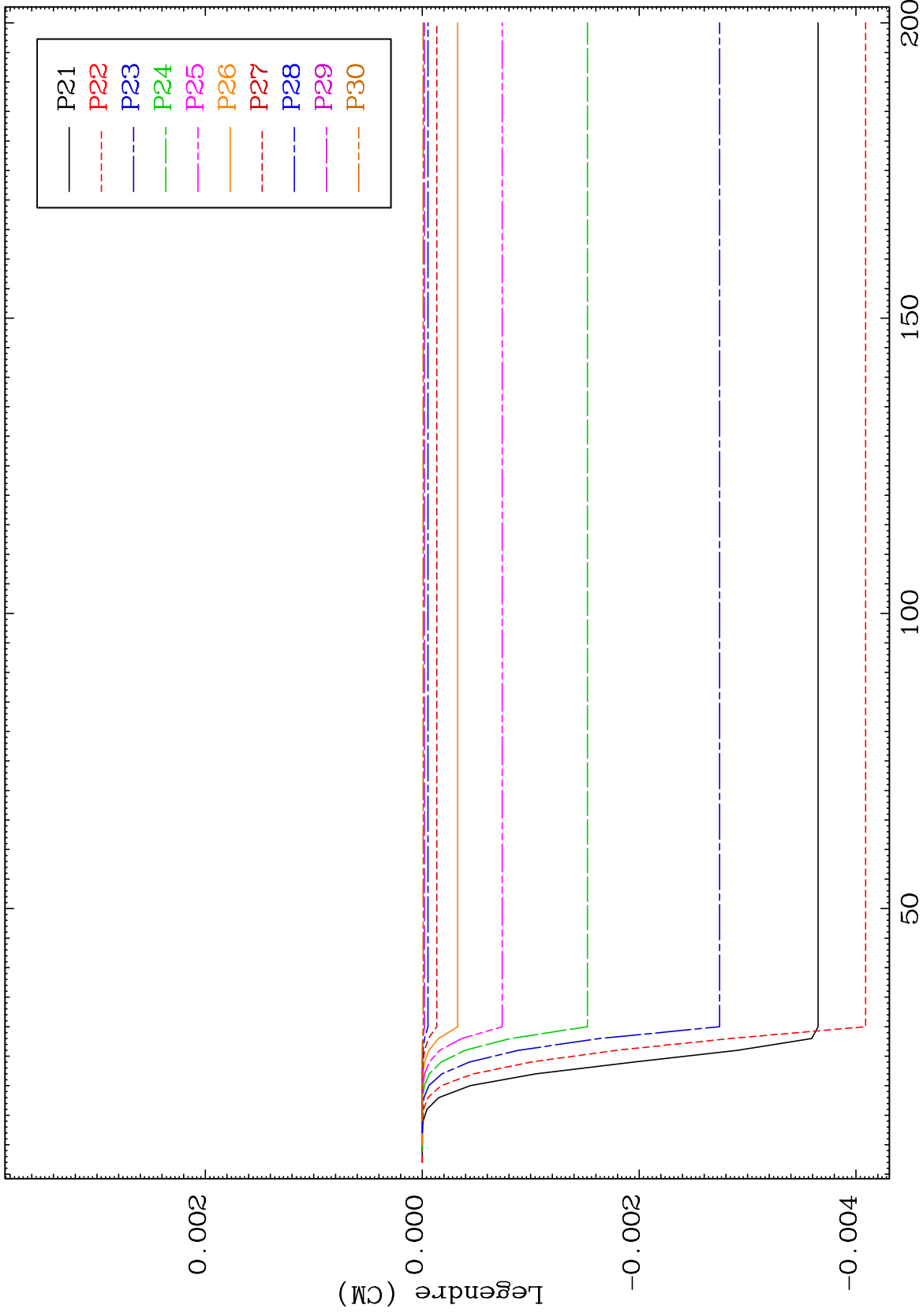
Incident Energy (MeV)

45

MAT 8149

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

81-Tl-211



46

Incident Energy (MeV)

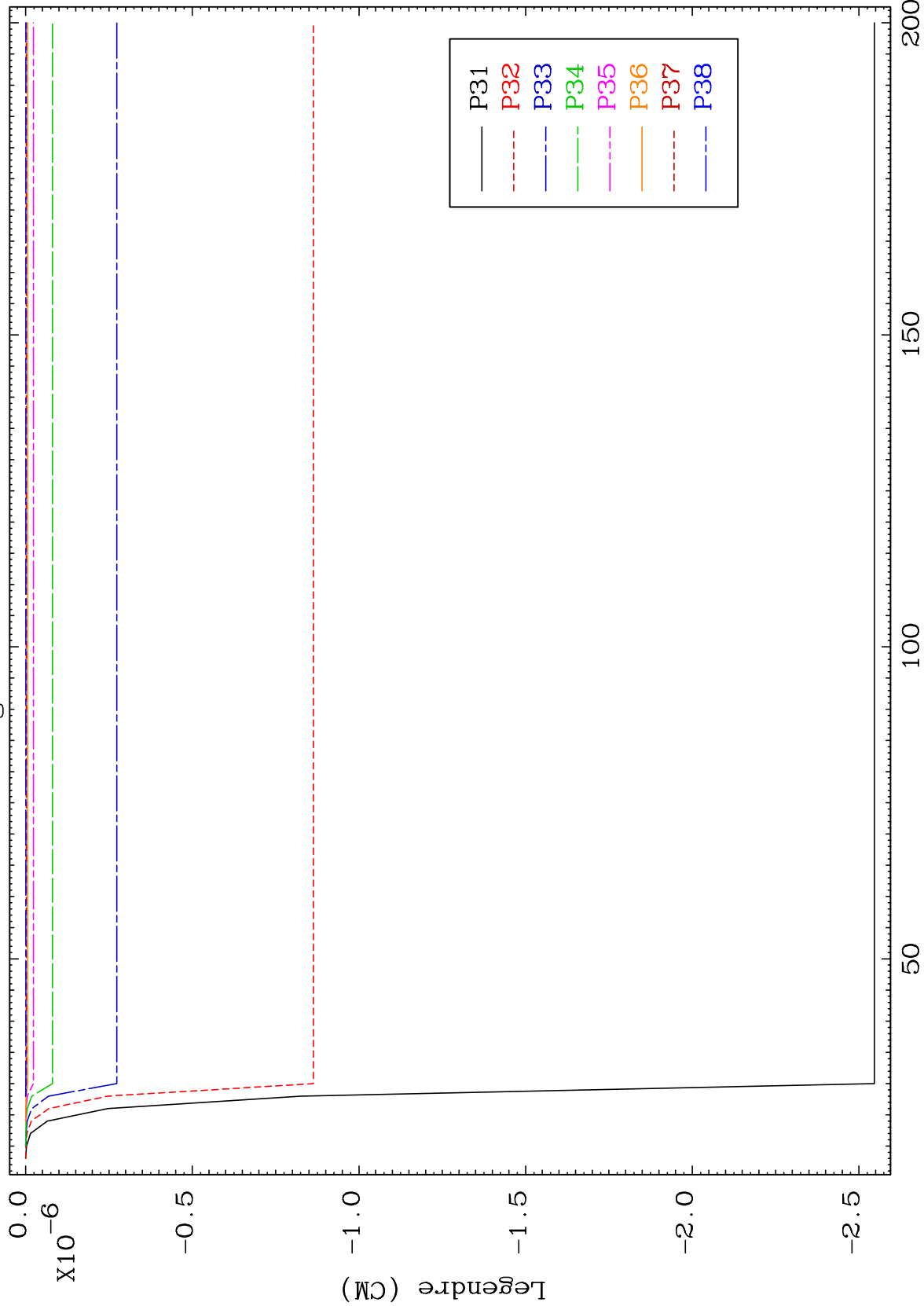
81-Tl-211

MAT 8149

MT= 57 (n,n') Level

81-Tl-211

Legendre Coefficients



47

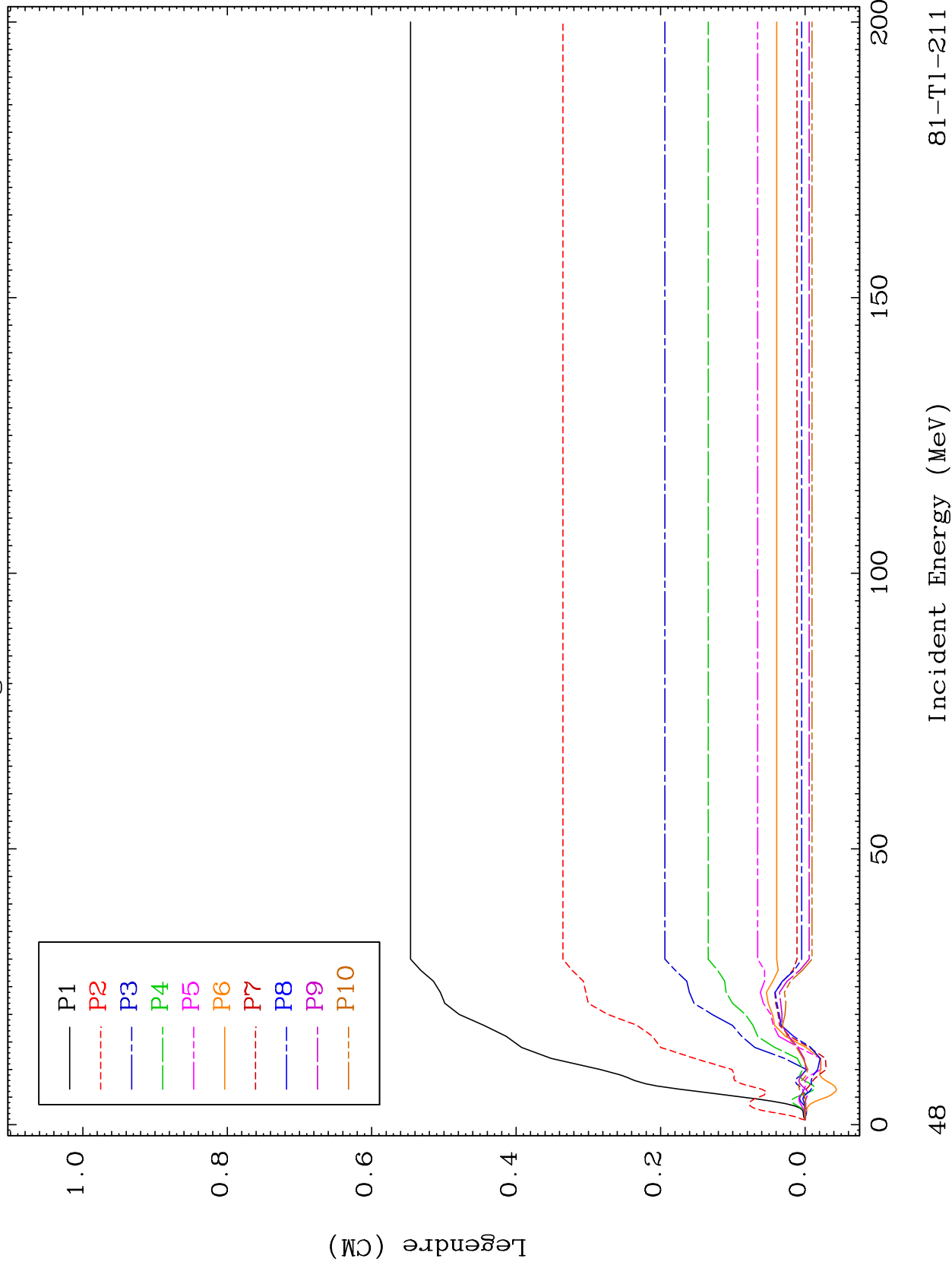
Incident Energy (MeV)

81-Tl-211

MAT 8149

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

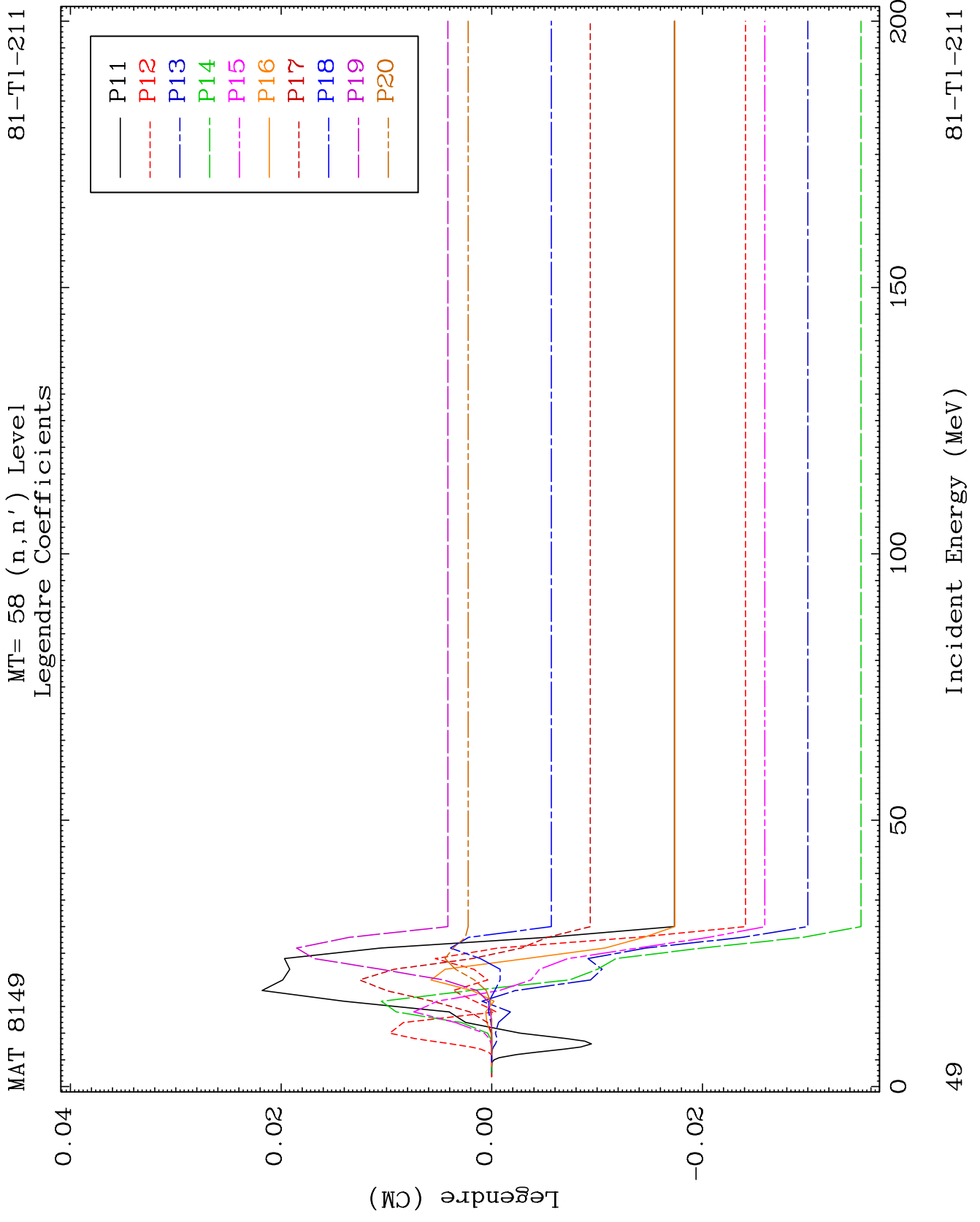
81-Tl-211



81-Tl-211

Incident Energy (MeV)

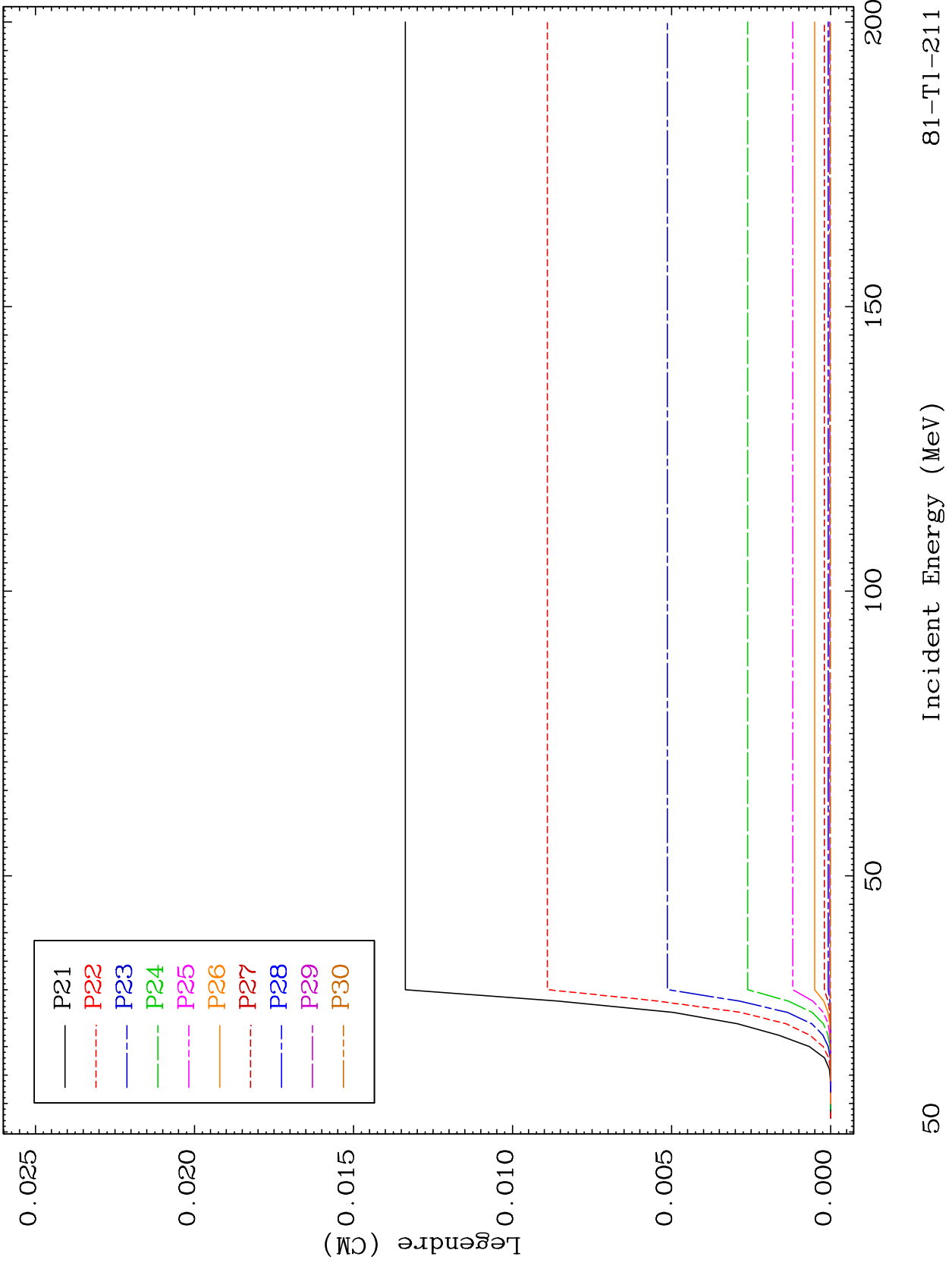
48



MAT 8149

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

81-Tl-211



81-Tl-211

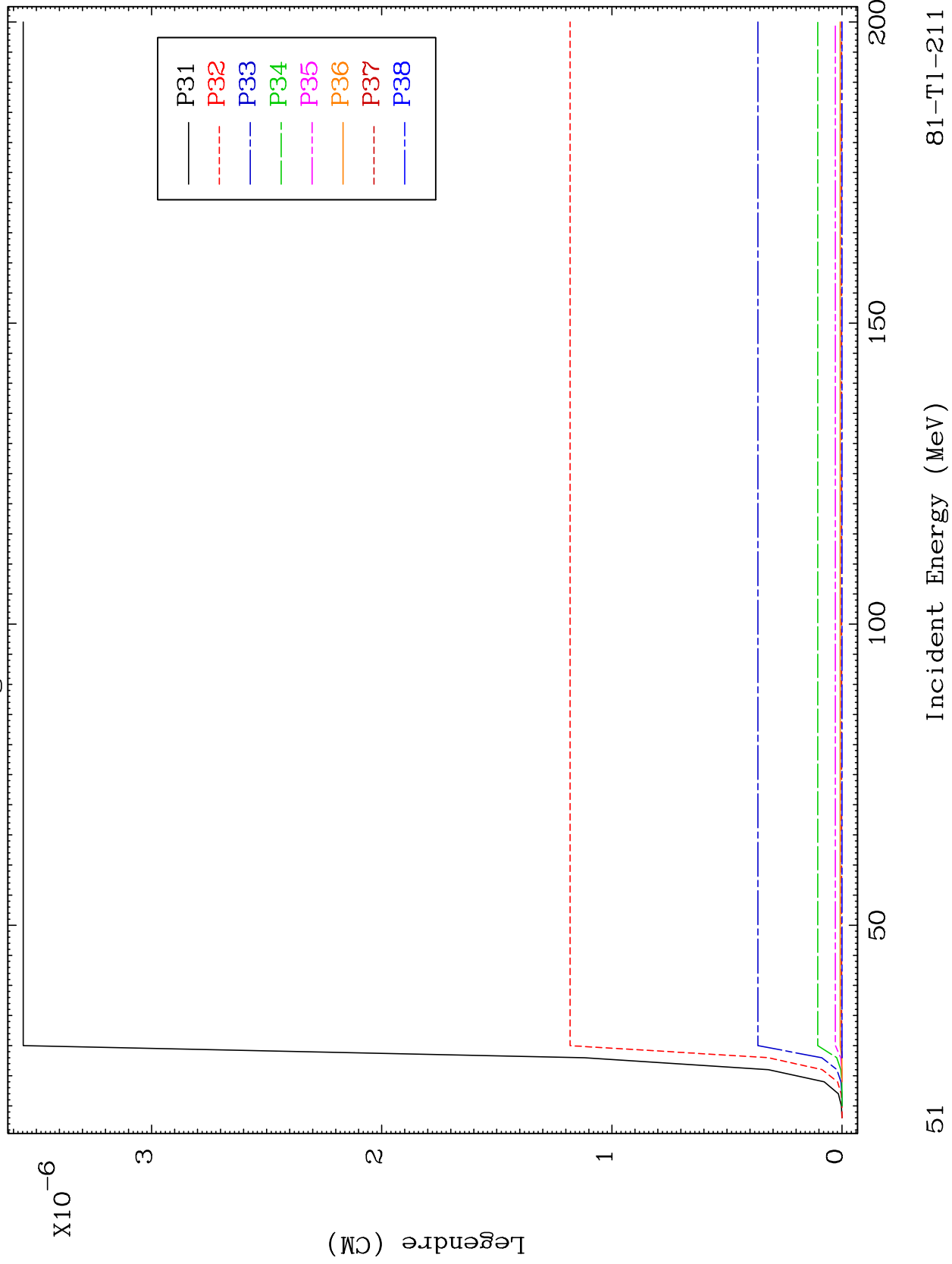
Incident Energy (MeV)

50

MAT 8149

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

81-Tl-211



51

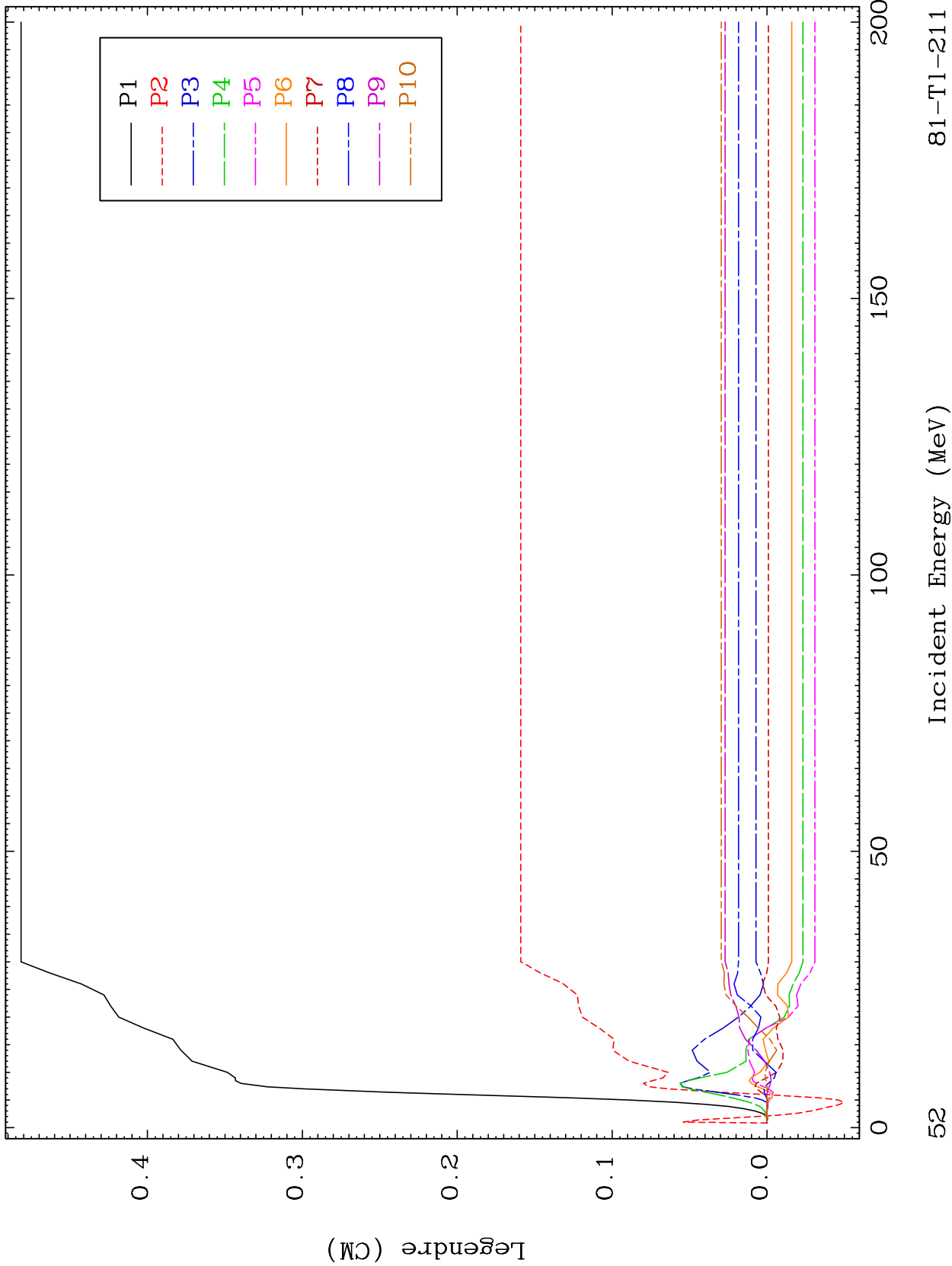
Incident Energy (MeV)

81-Tl-211

MAT 8149

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

81-Tl-211



81-Tl-211

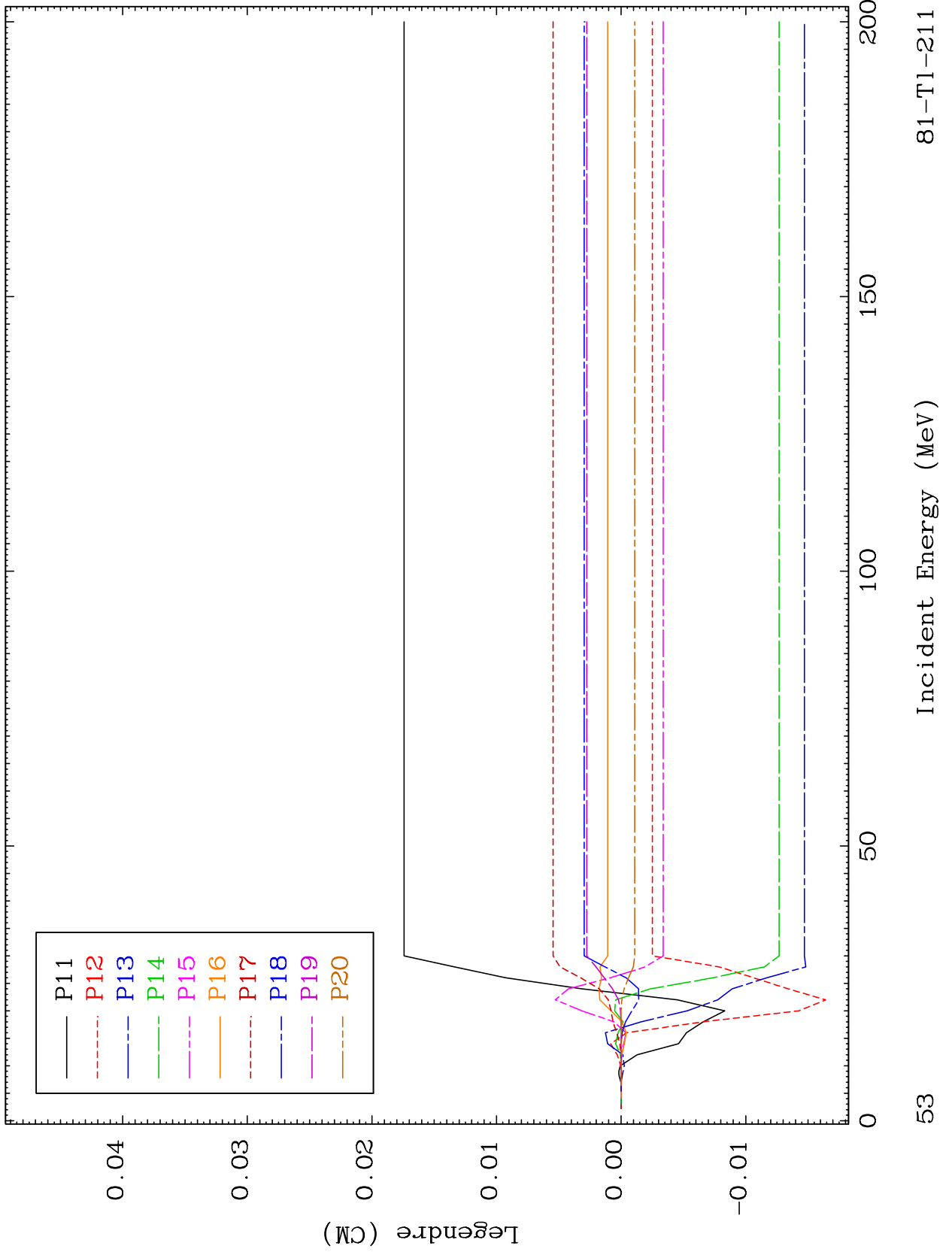
Incident Energy (MeV)

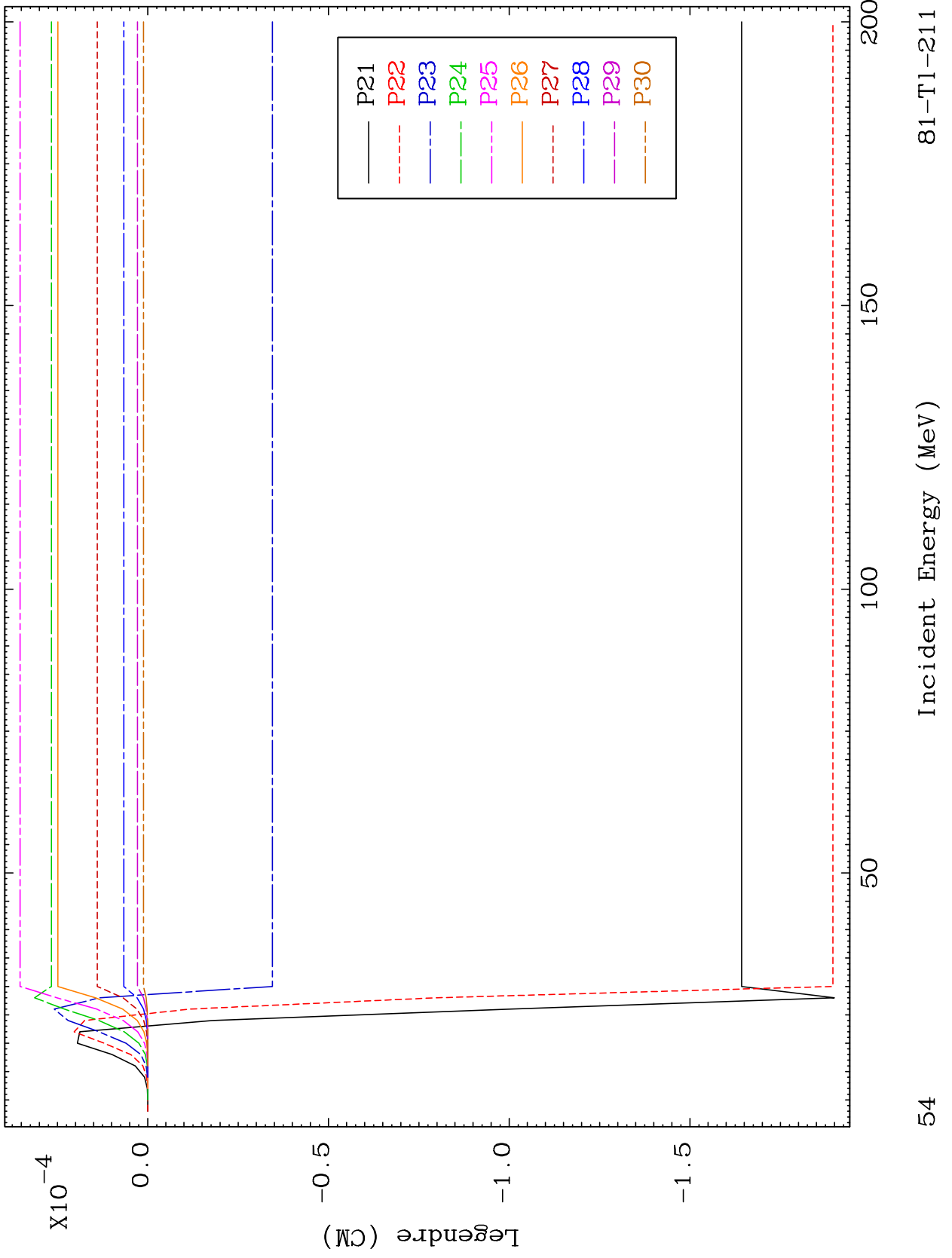
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MAT 8149

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

81-Tl-211

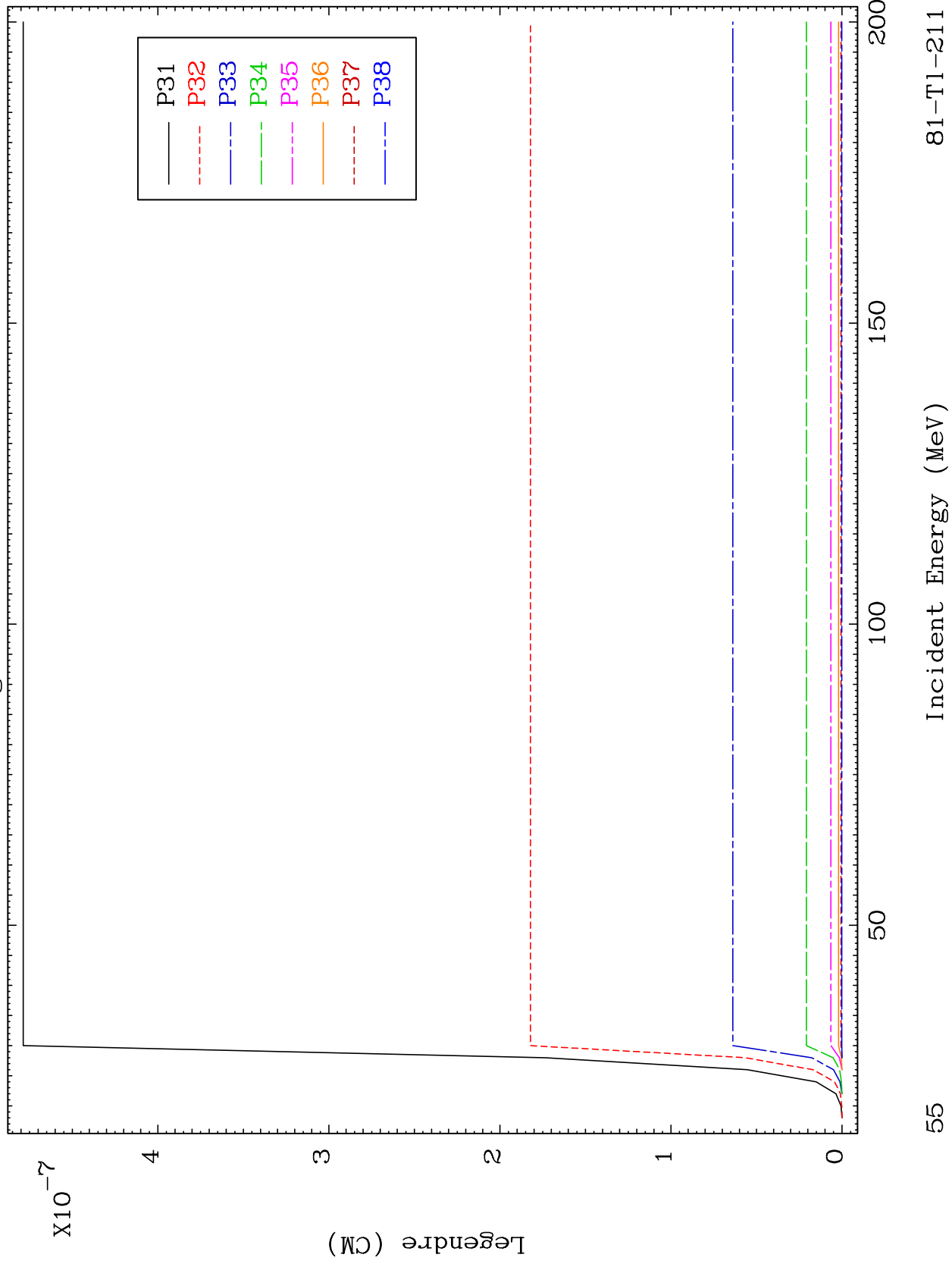




MAT 8149

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

81-Tl-211



81-Tl-211

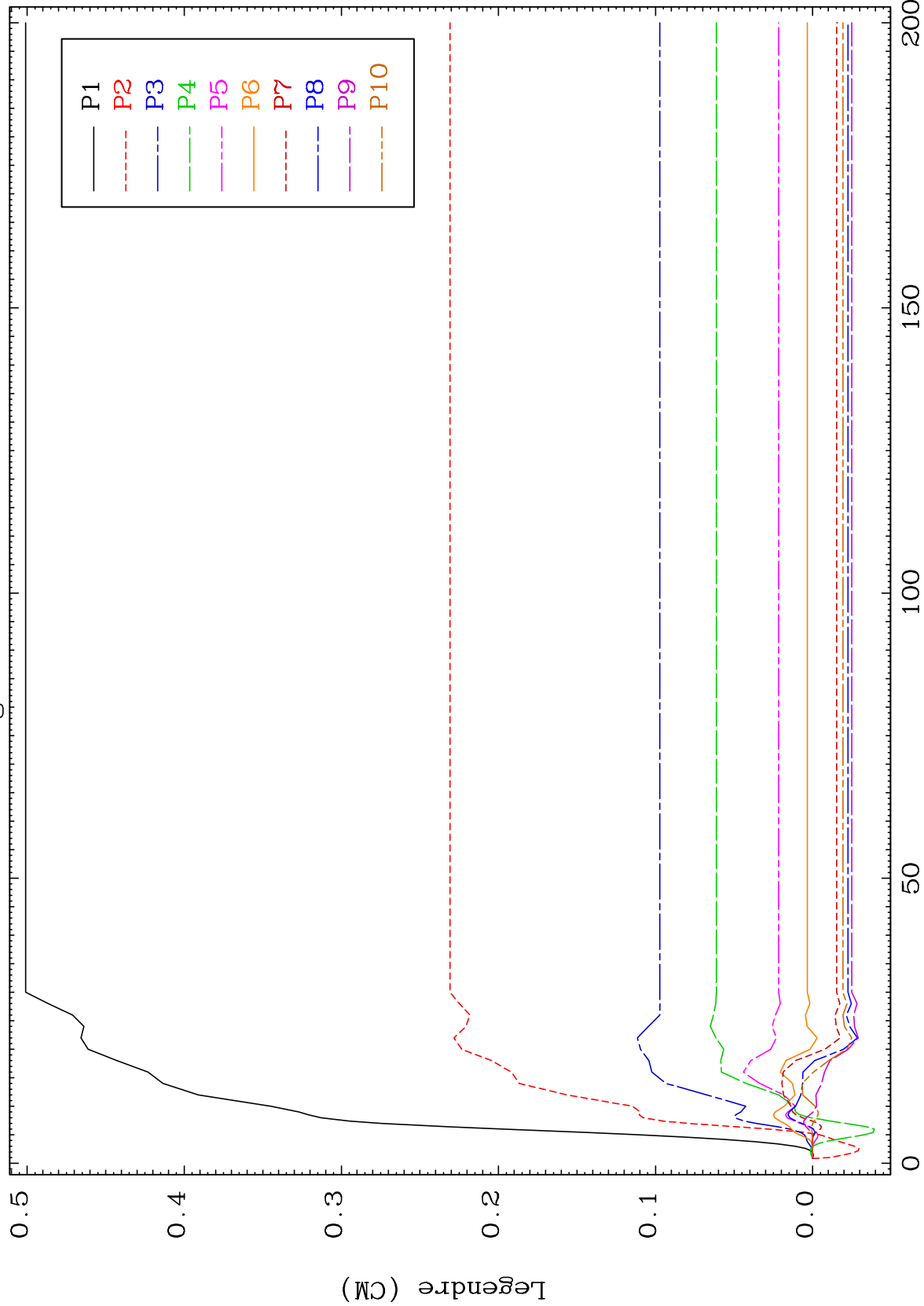
Incident Energy (MeV)

55

MAT 8149

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

81-Tl-211



56

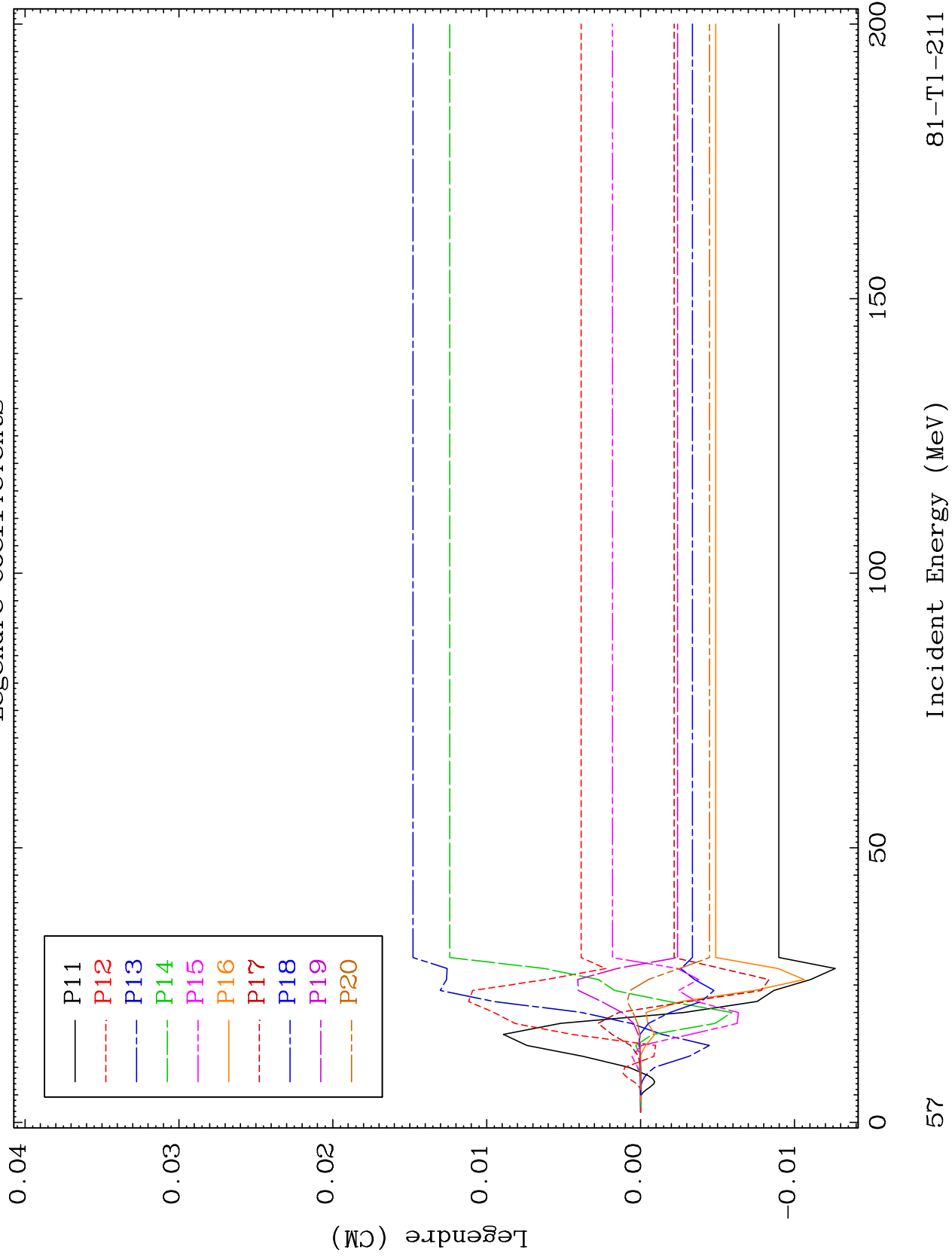
Incident Energy (MeV)

81-Tl-211

MAT 8149

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

81-Tl-211

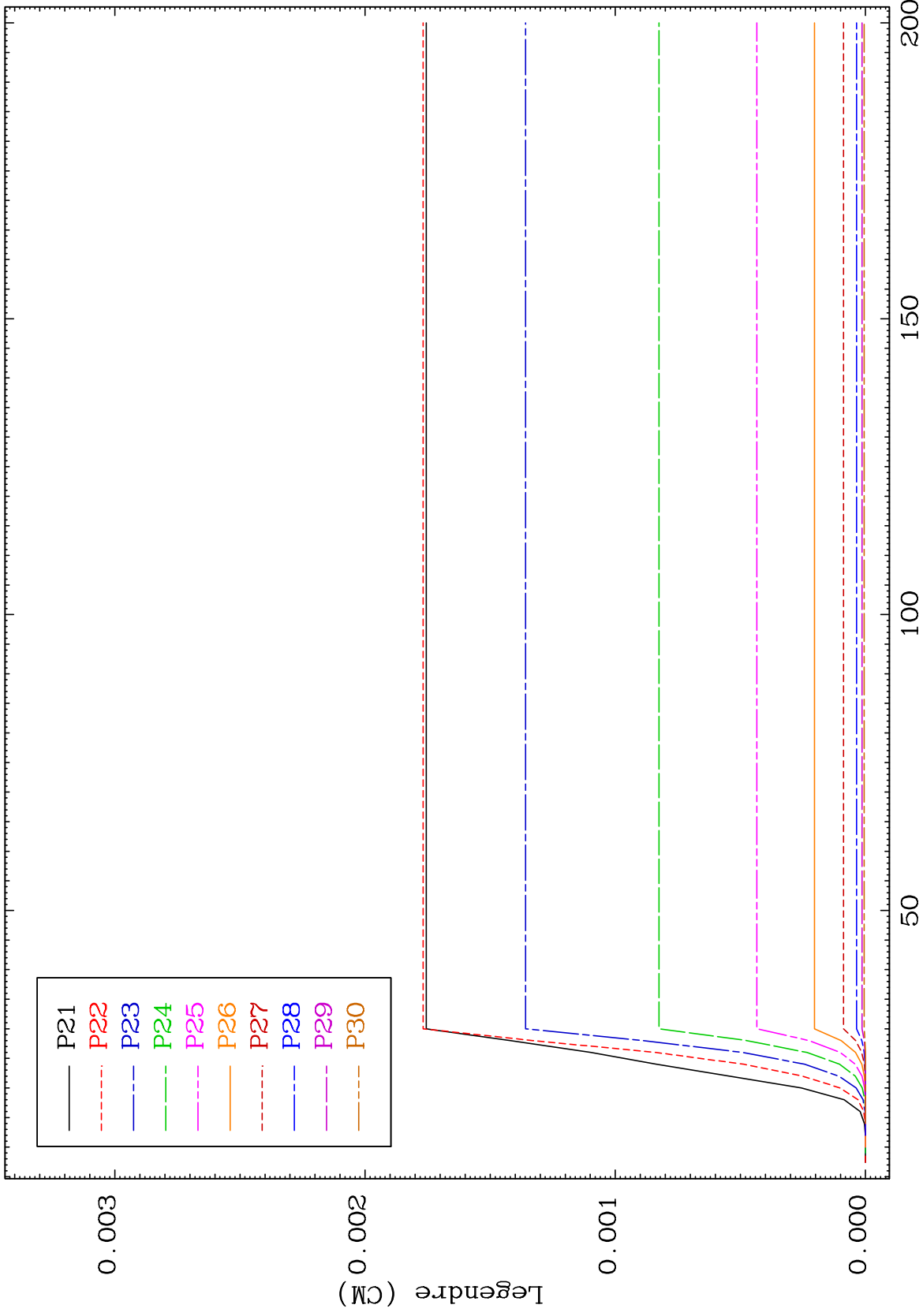


57

MAT 8149

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

81-Tl-211



58

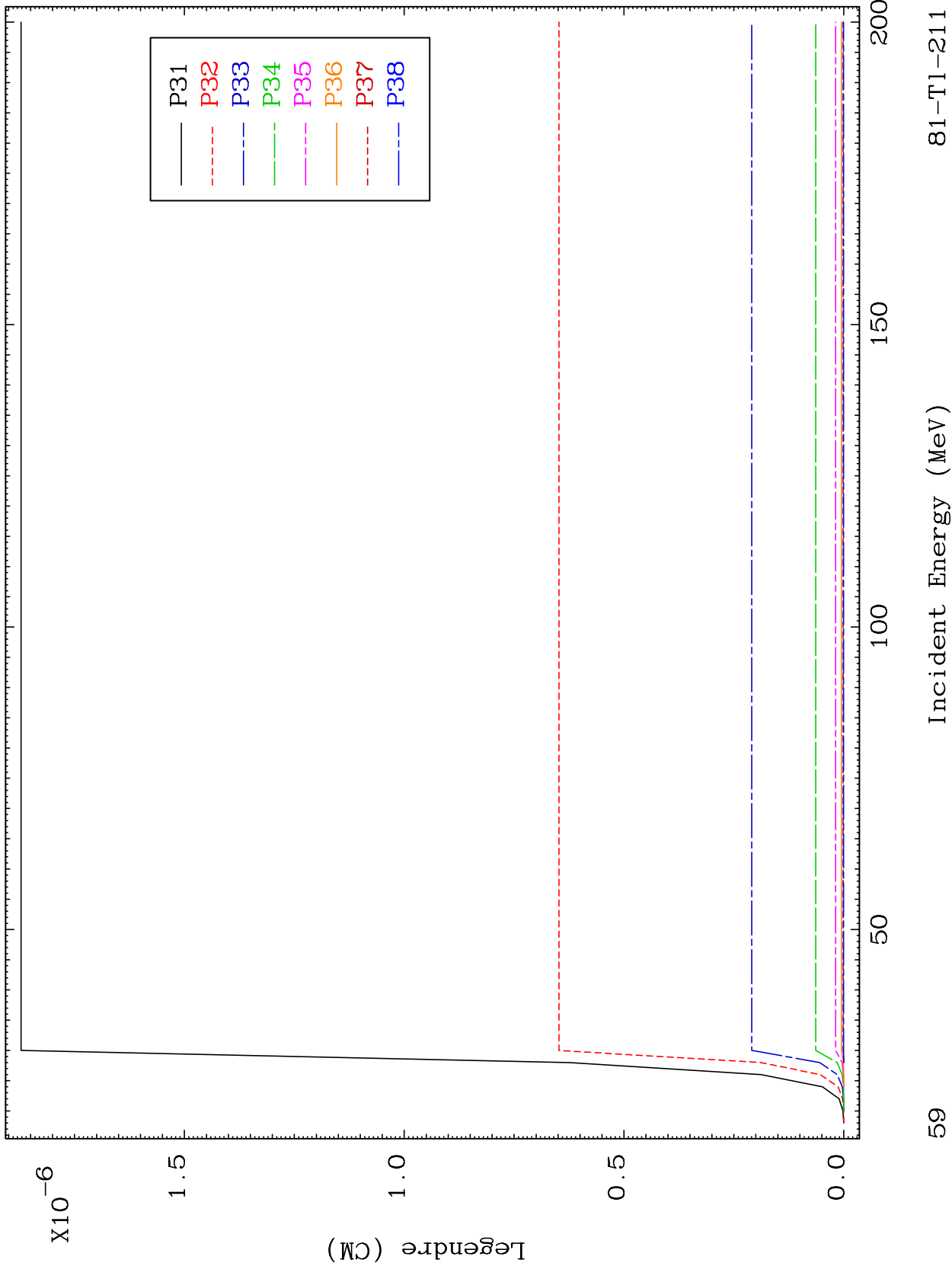
Incident Energy (MeV)

81-Tl-211

MAT 8149

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

81-Tl-211

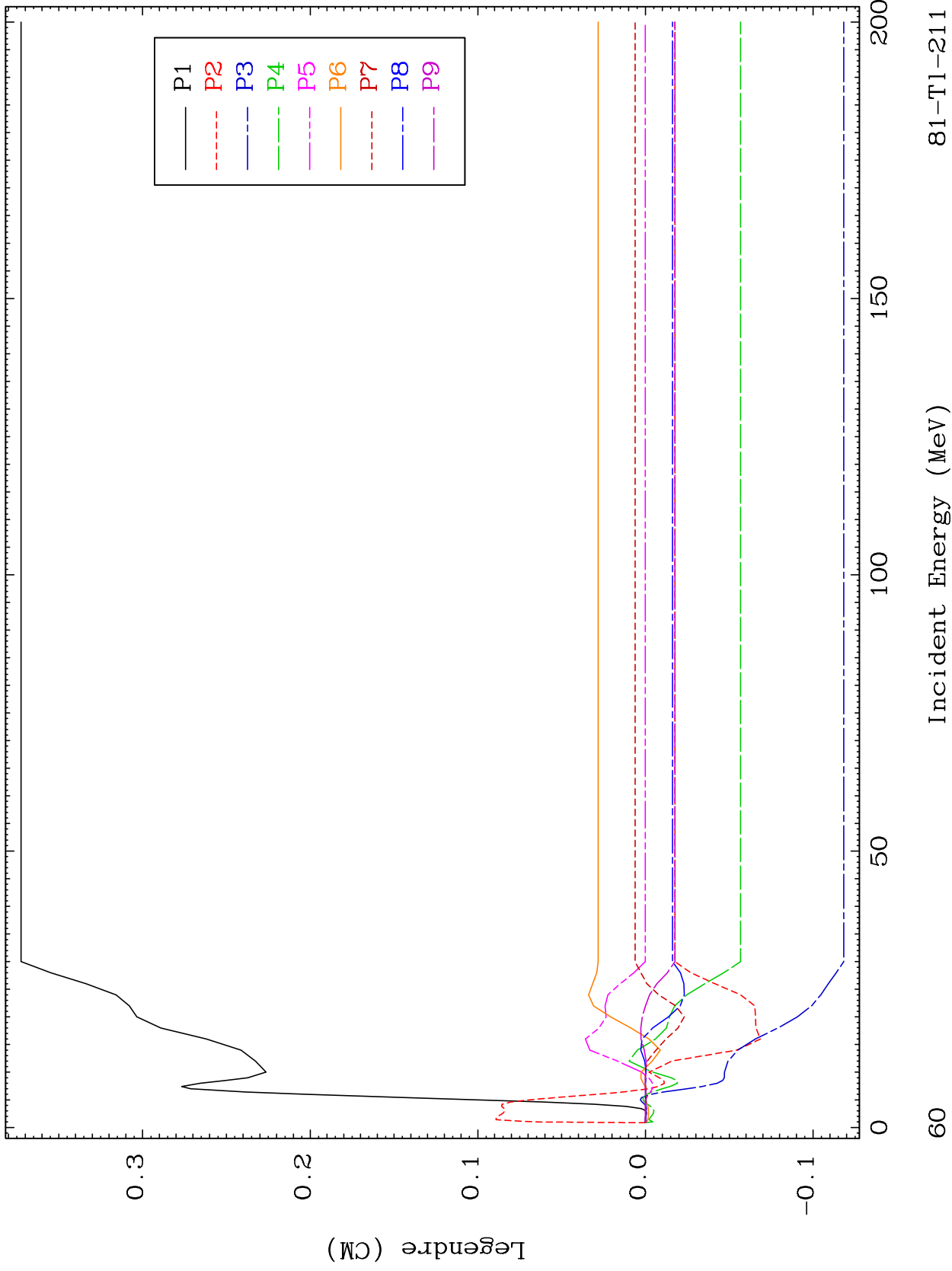


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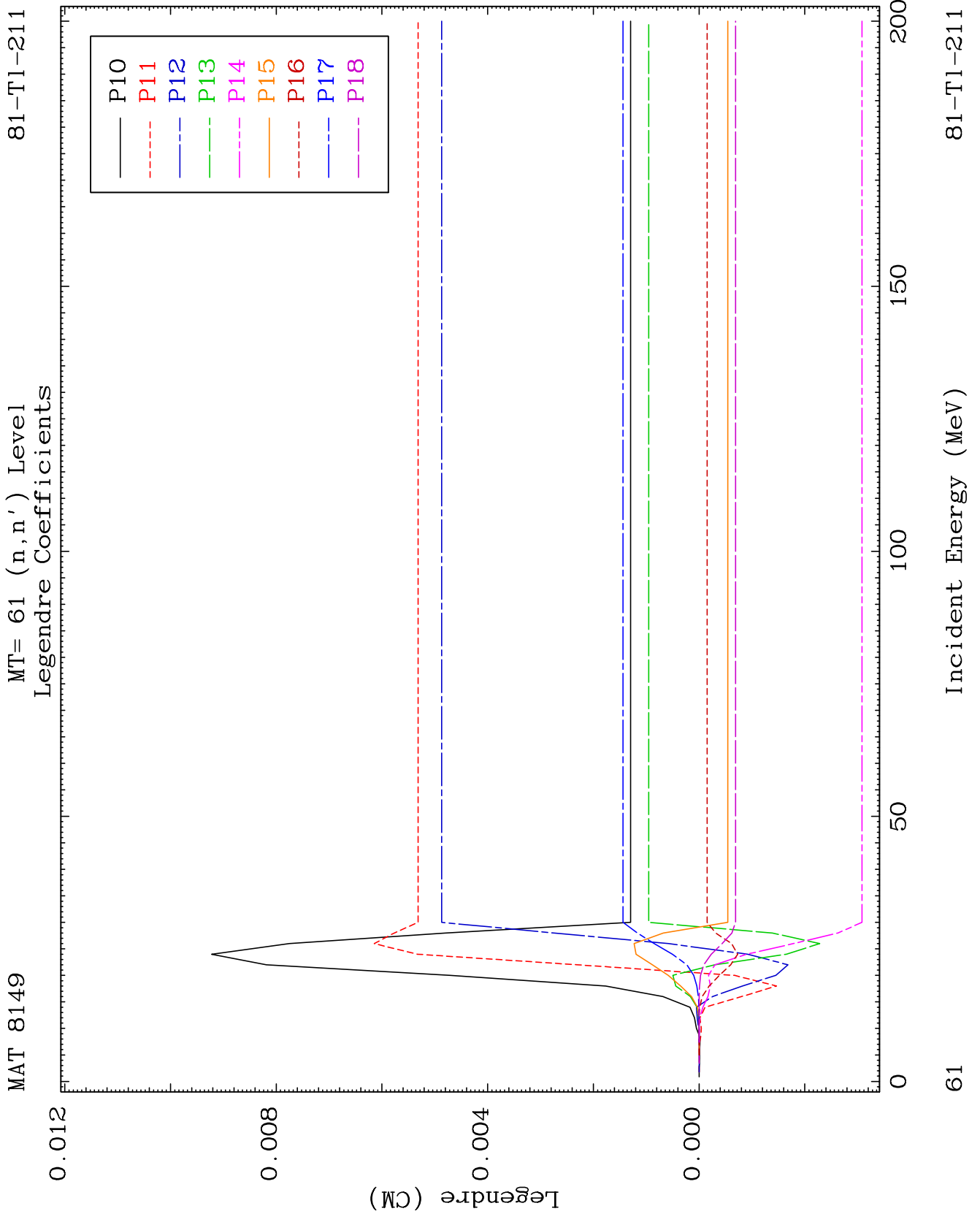
MAT 8149

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

81-Tl-211



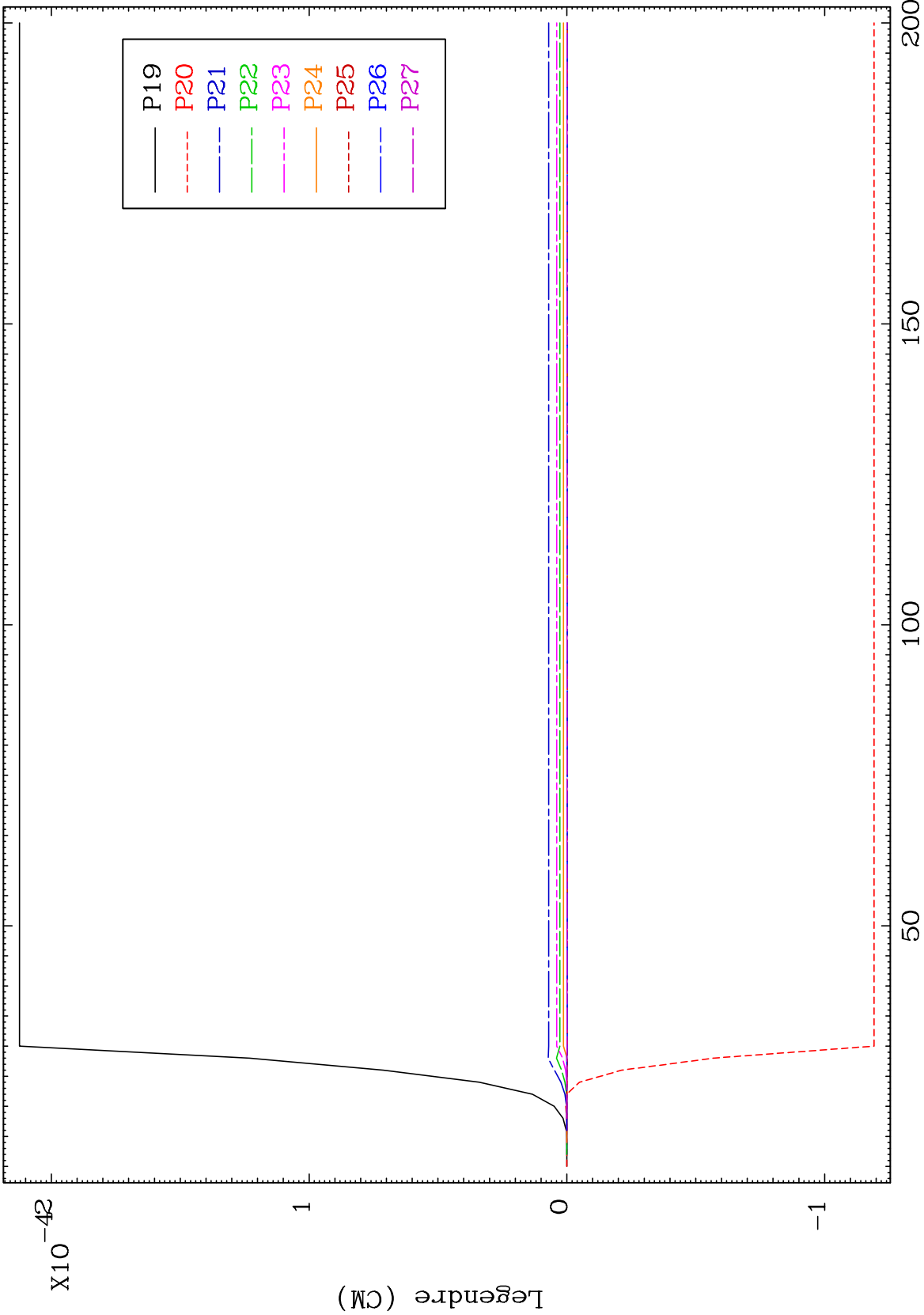
81-Tl-211



MAT 8149

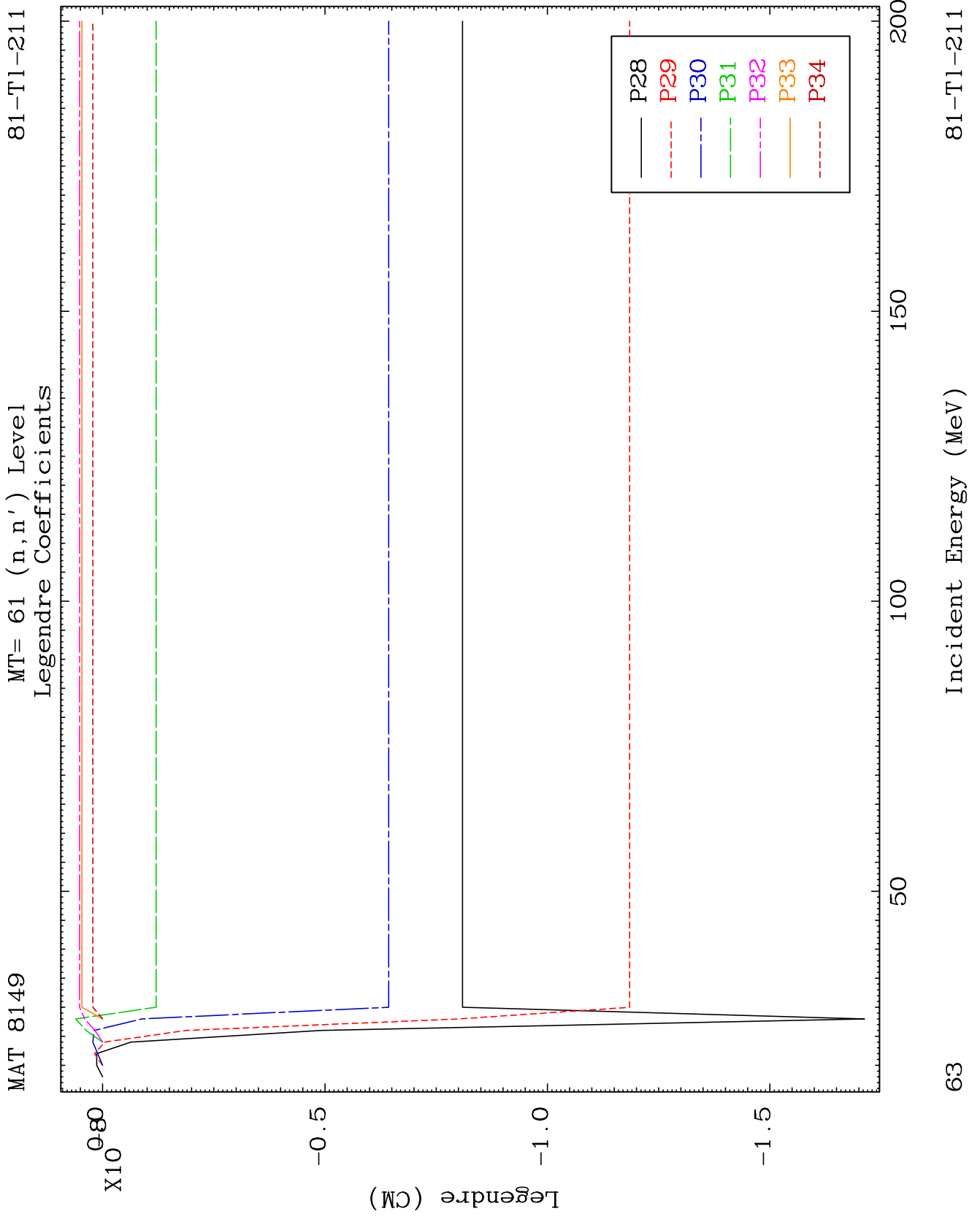
MT= 61 (n,n') Level
Legendre Coefficients

81-Tl-211



62

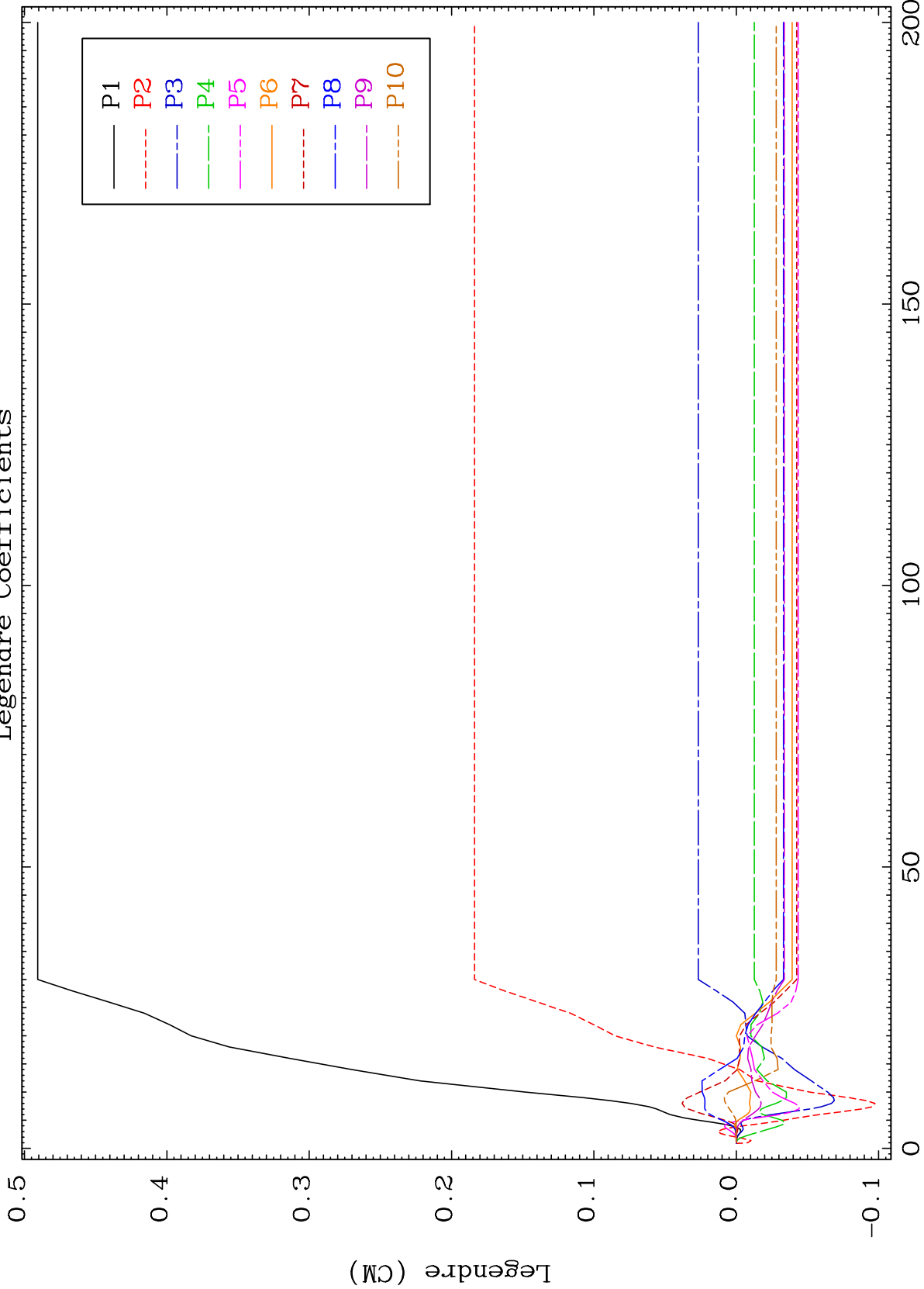
81-Tl-211



MAT 8149

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

81-Tl-211



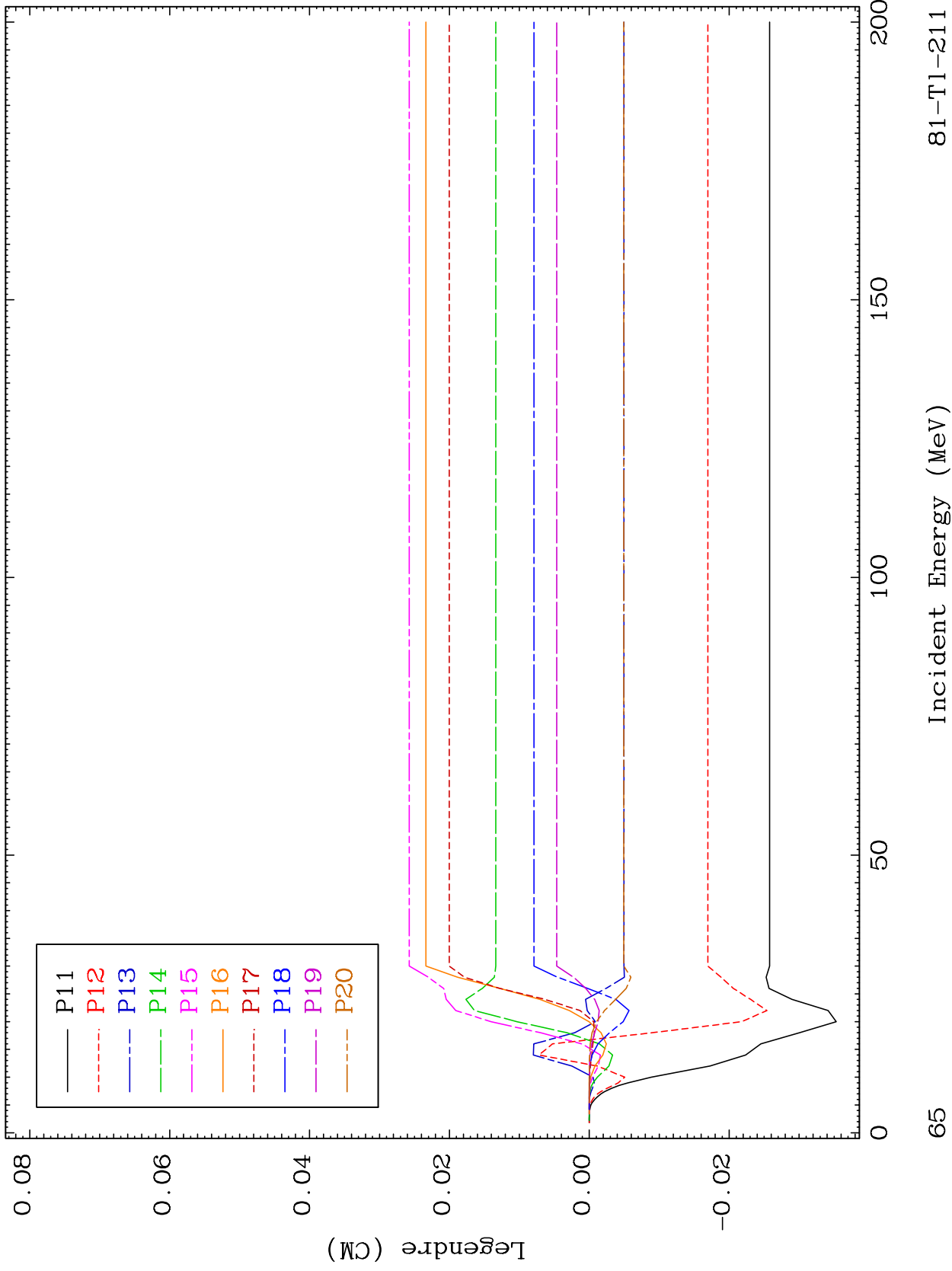
64

81-Tl-211

MAT 8149

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

81-Tl-211



81-Tl-211

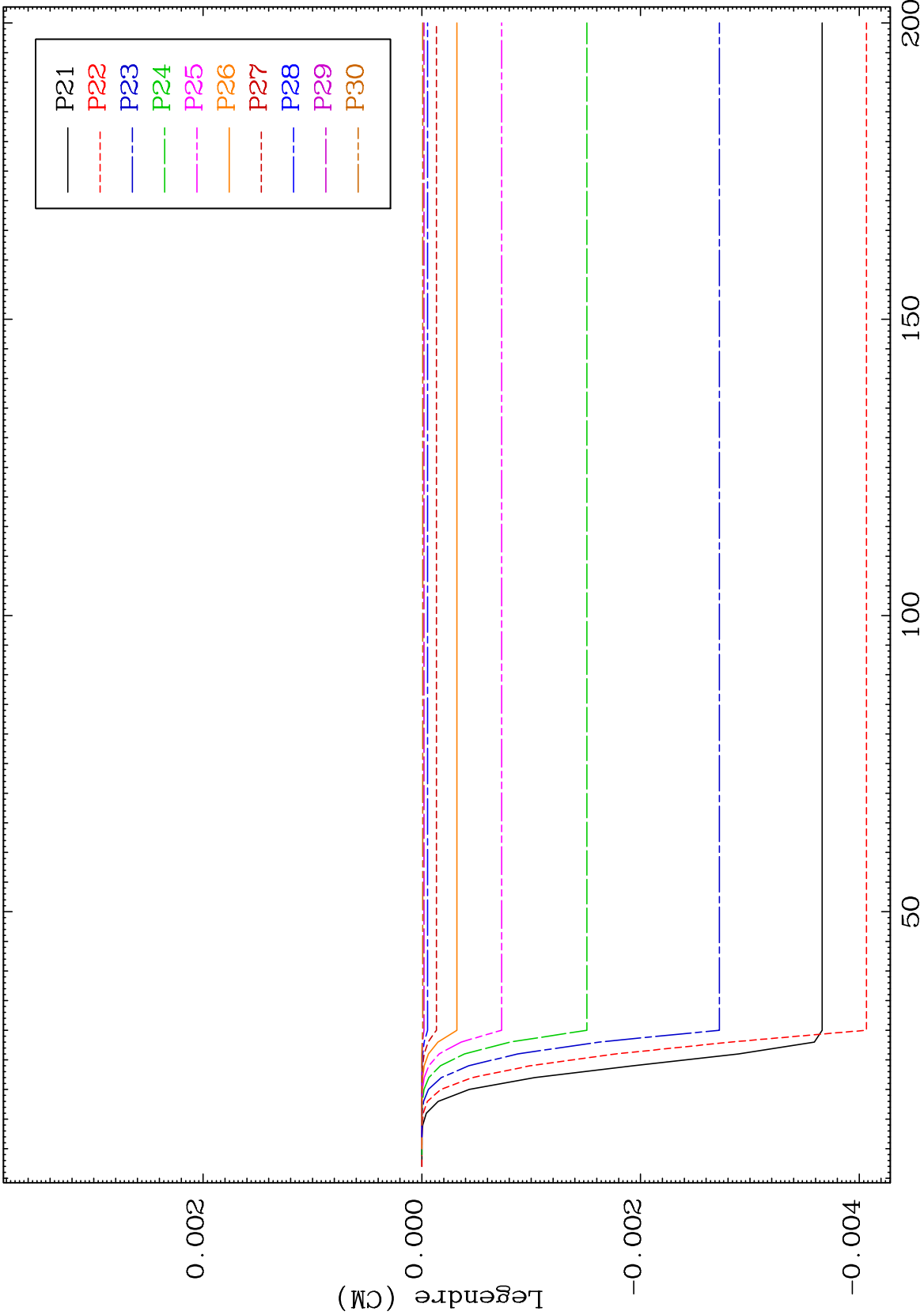
Incident Energy (MeV)

65

MAT 8149

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

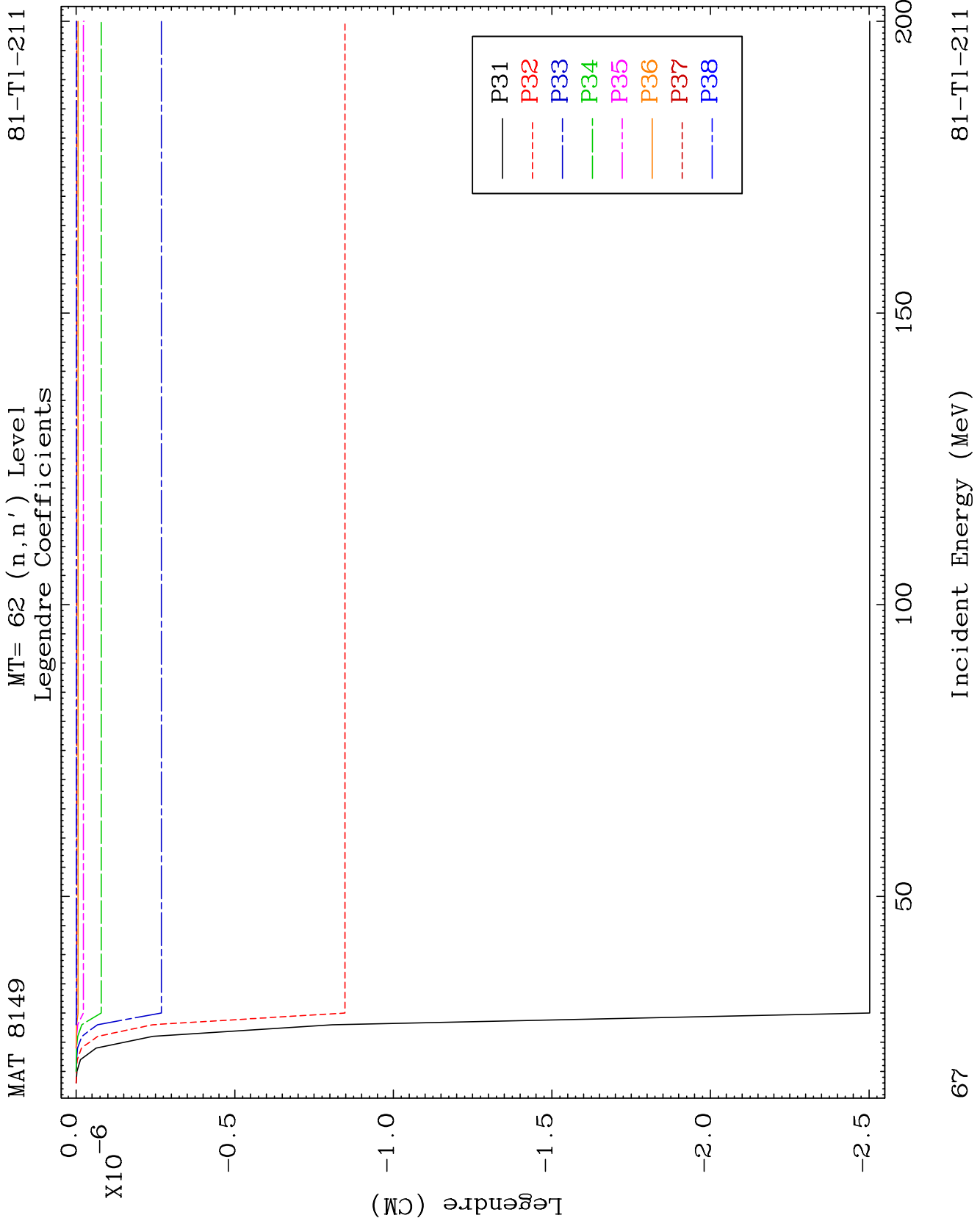
81-Tl-211



66

Incident Energy (MeV)

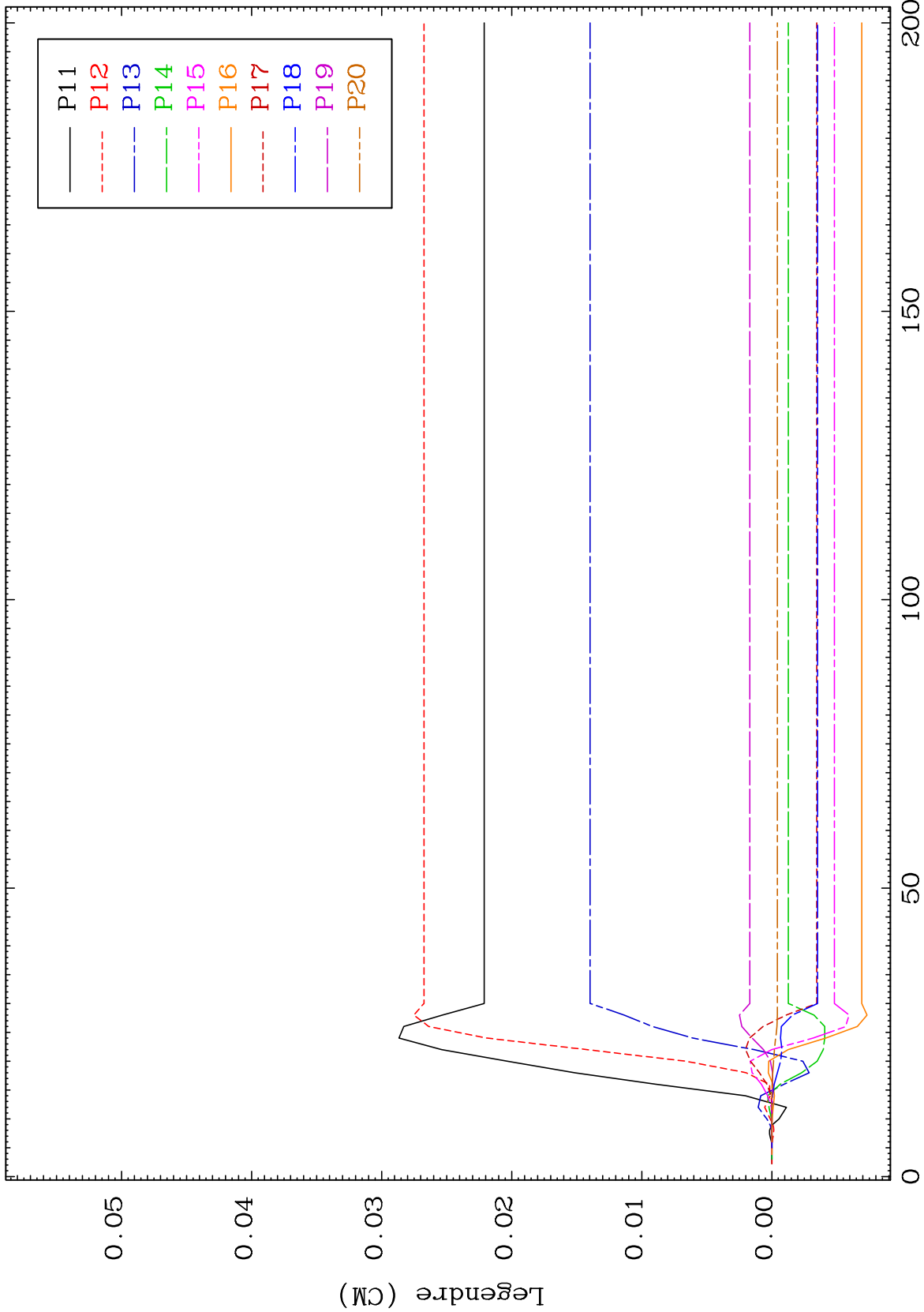
81-Tl-211



MAT 8149

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

81-Tl-211



69

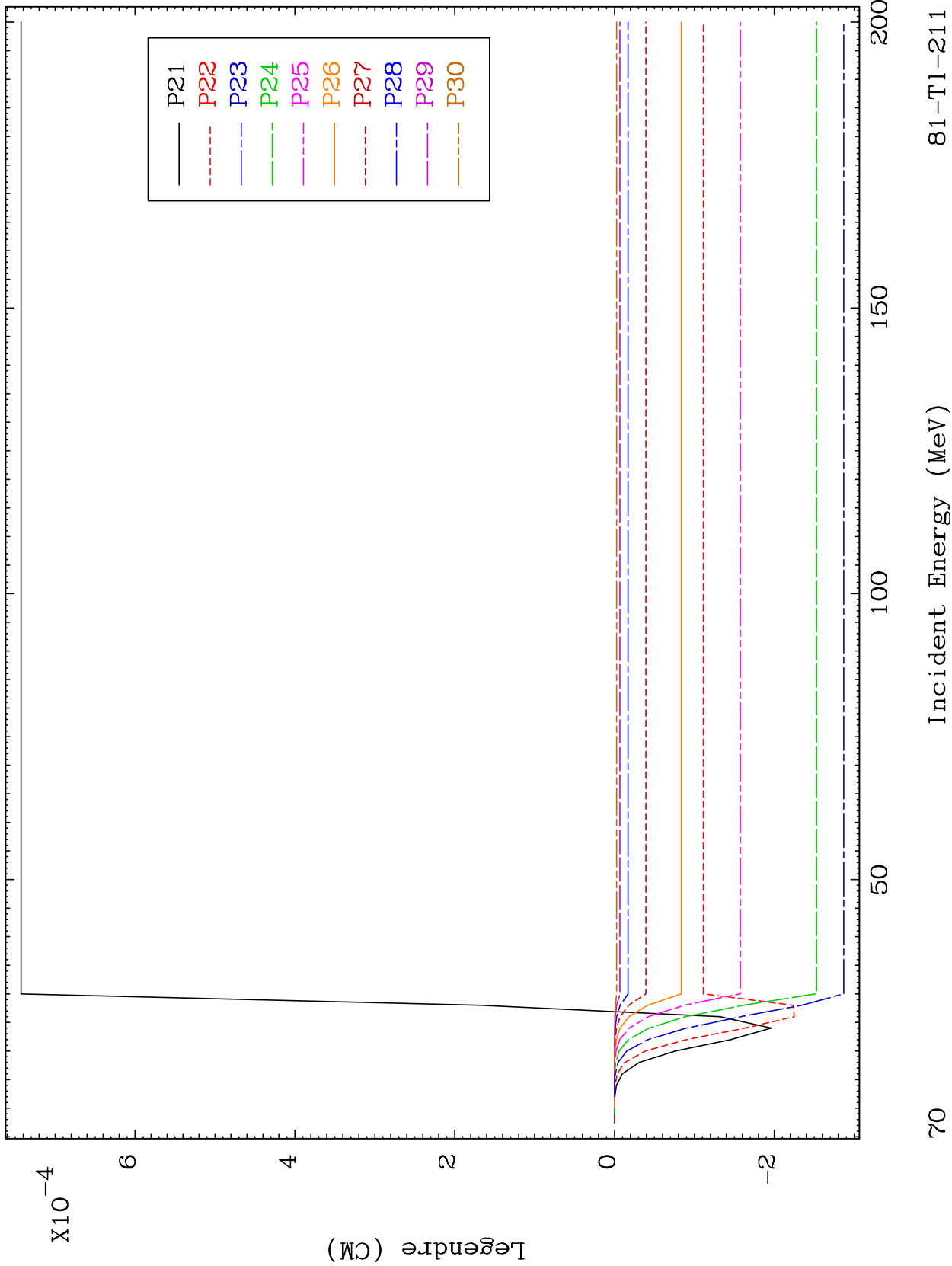
Incident Energy (MeV)

81-Tl-211

MAT 8149

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

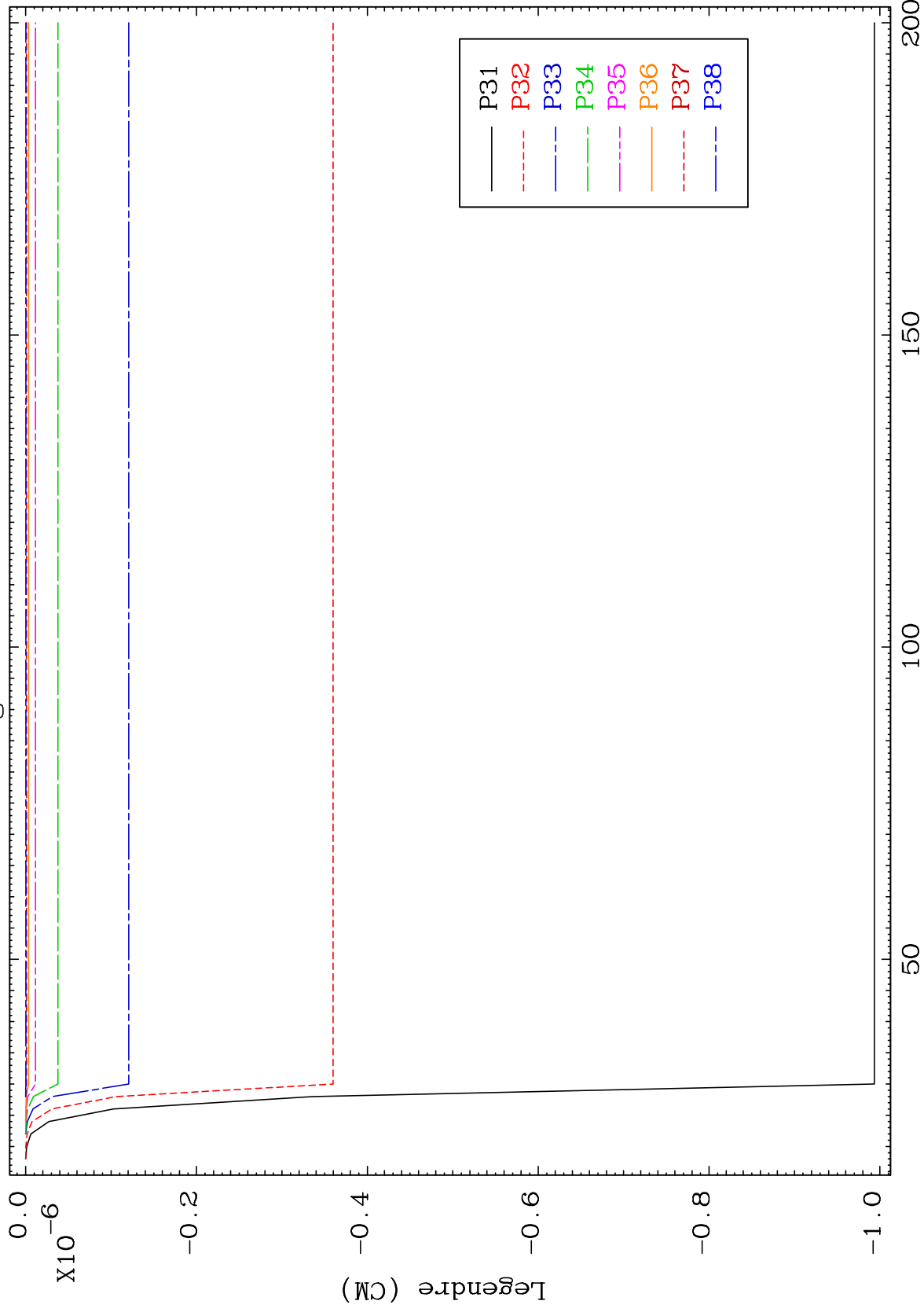
81-Tl-211



MAT 8149

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

81-Tl-211



71

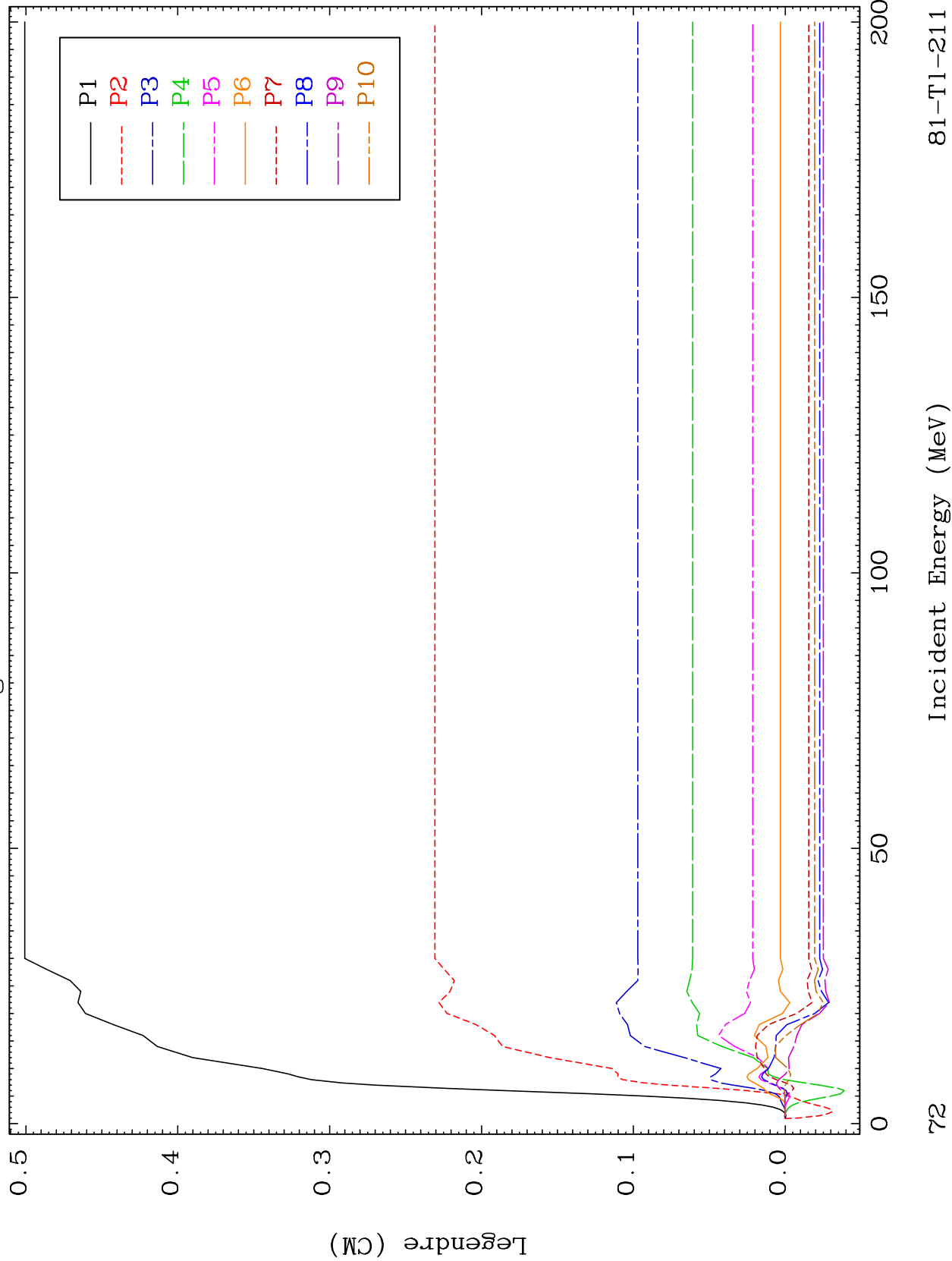
Incident Energy (MeV)

81-Tl-211

MAT 8149

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

81-Tl-211



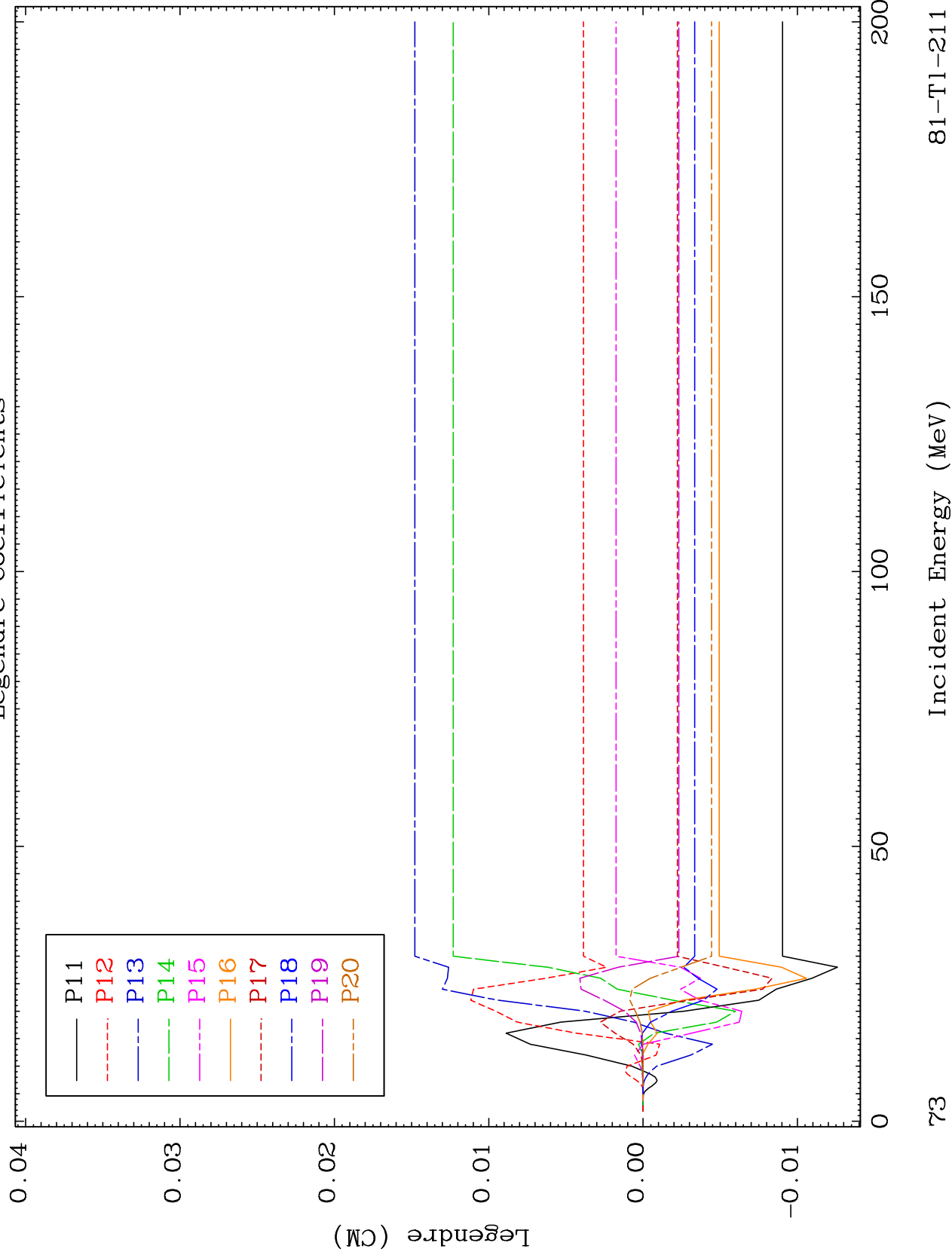
72

81-Tl-211

MAT 8149

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

81-Tl-211

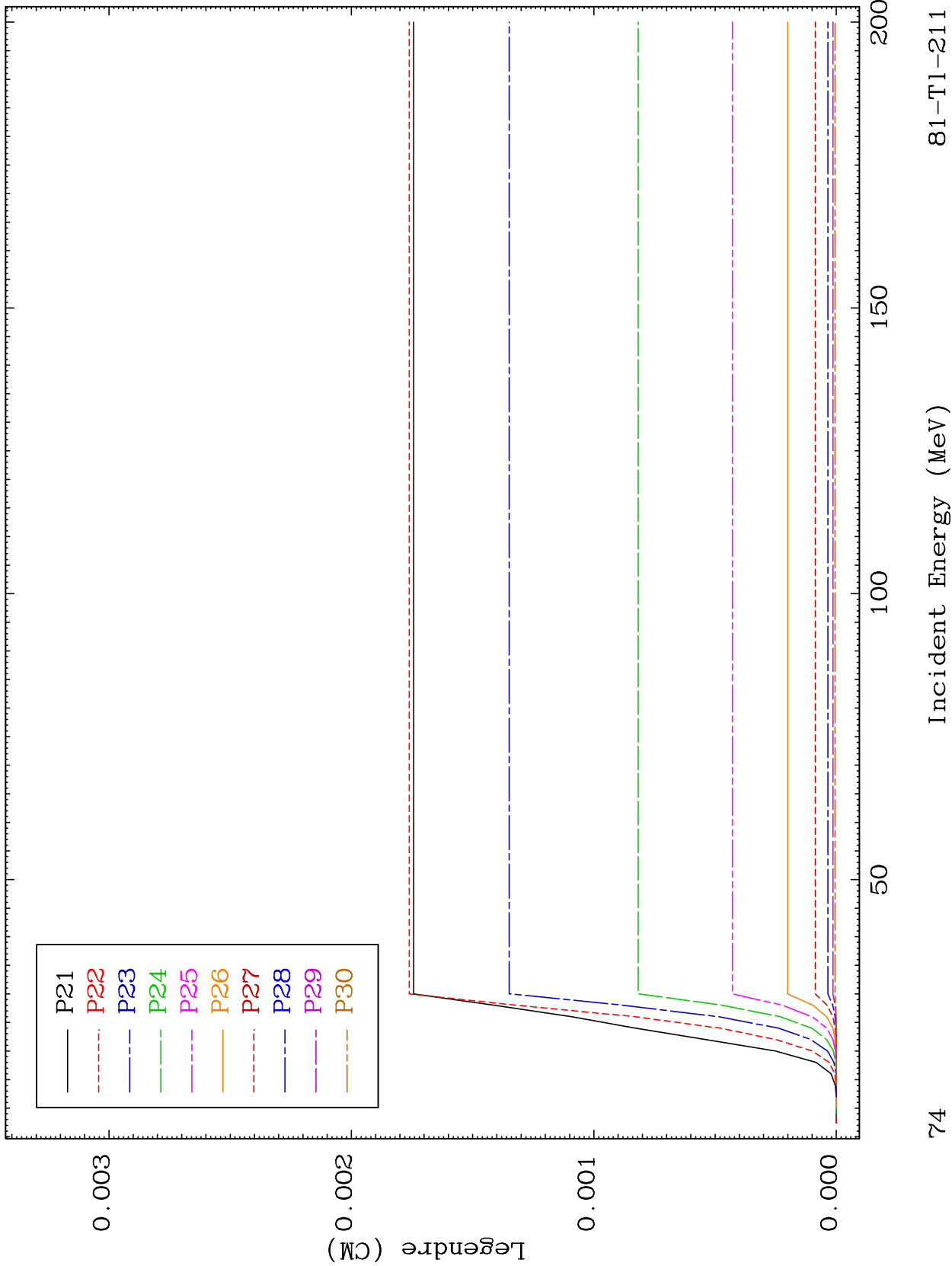


73

MAT 8149

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

81-Tl-211



74

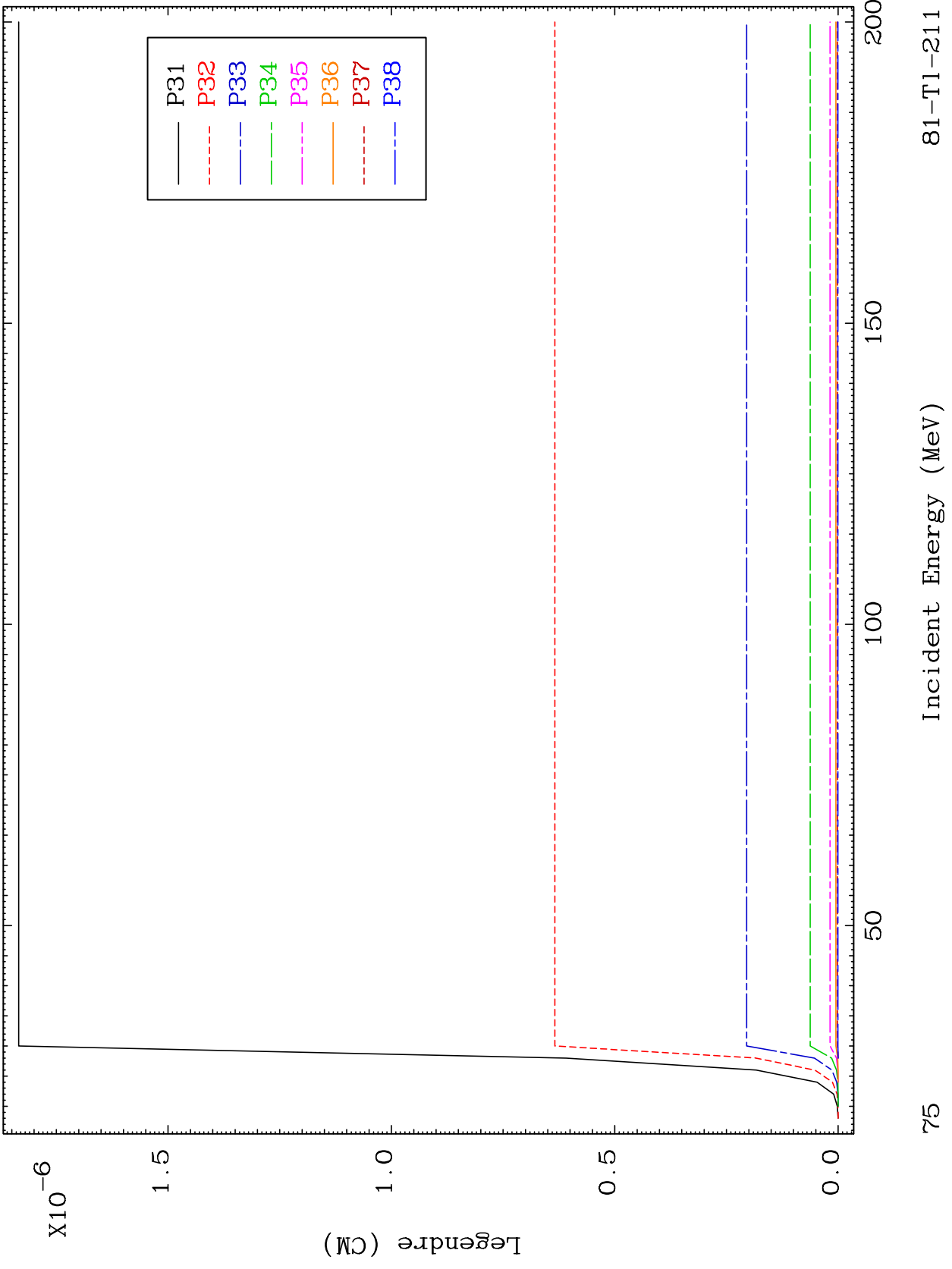
Incident Energy (MeV)

81-Tl-211

MAT 8149

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

81-T1-211



75

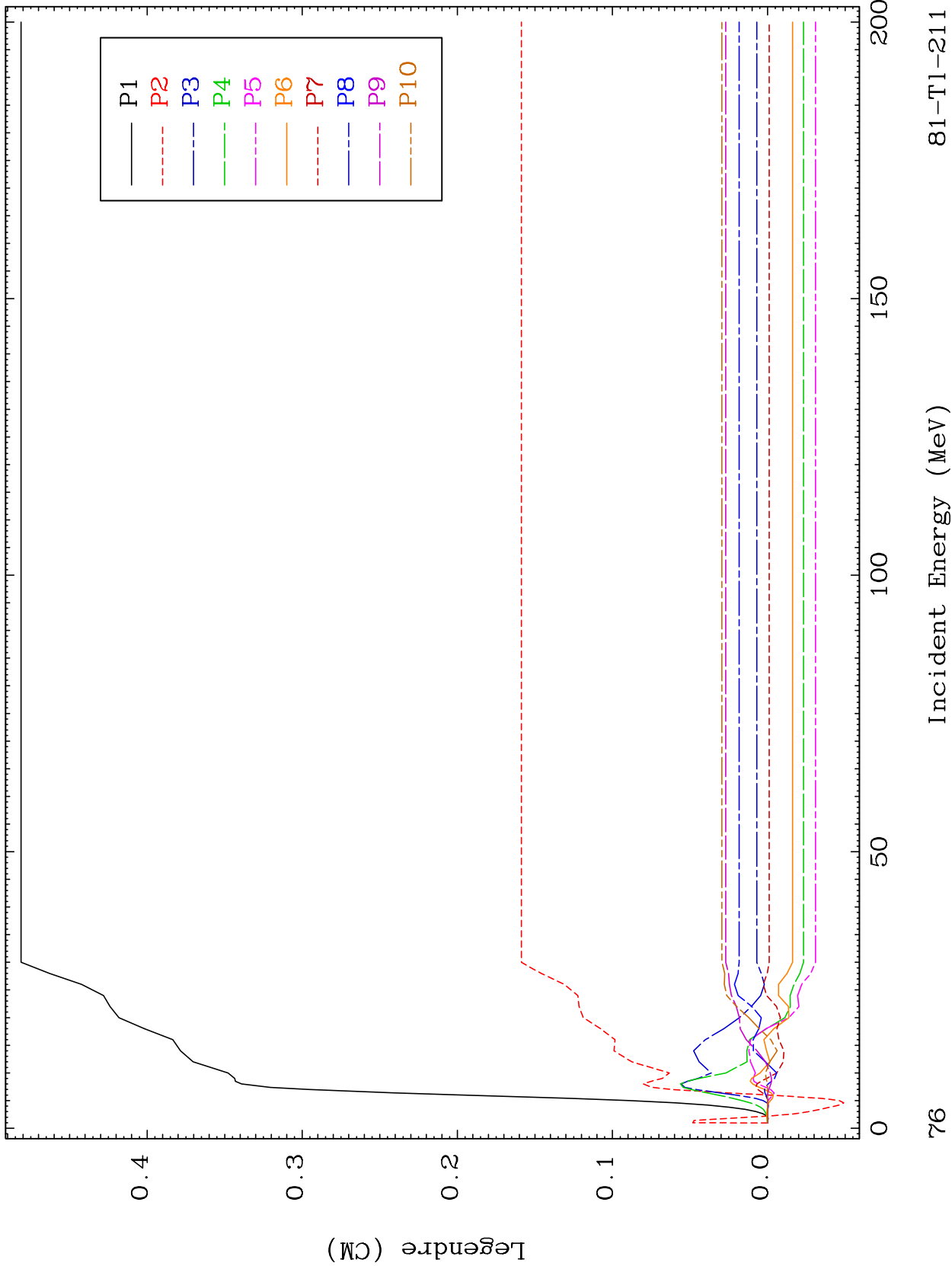
Incident Energy (MeV)

81-T1-211

MAT 8149

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

81-Tl-211



81-Tl-211

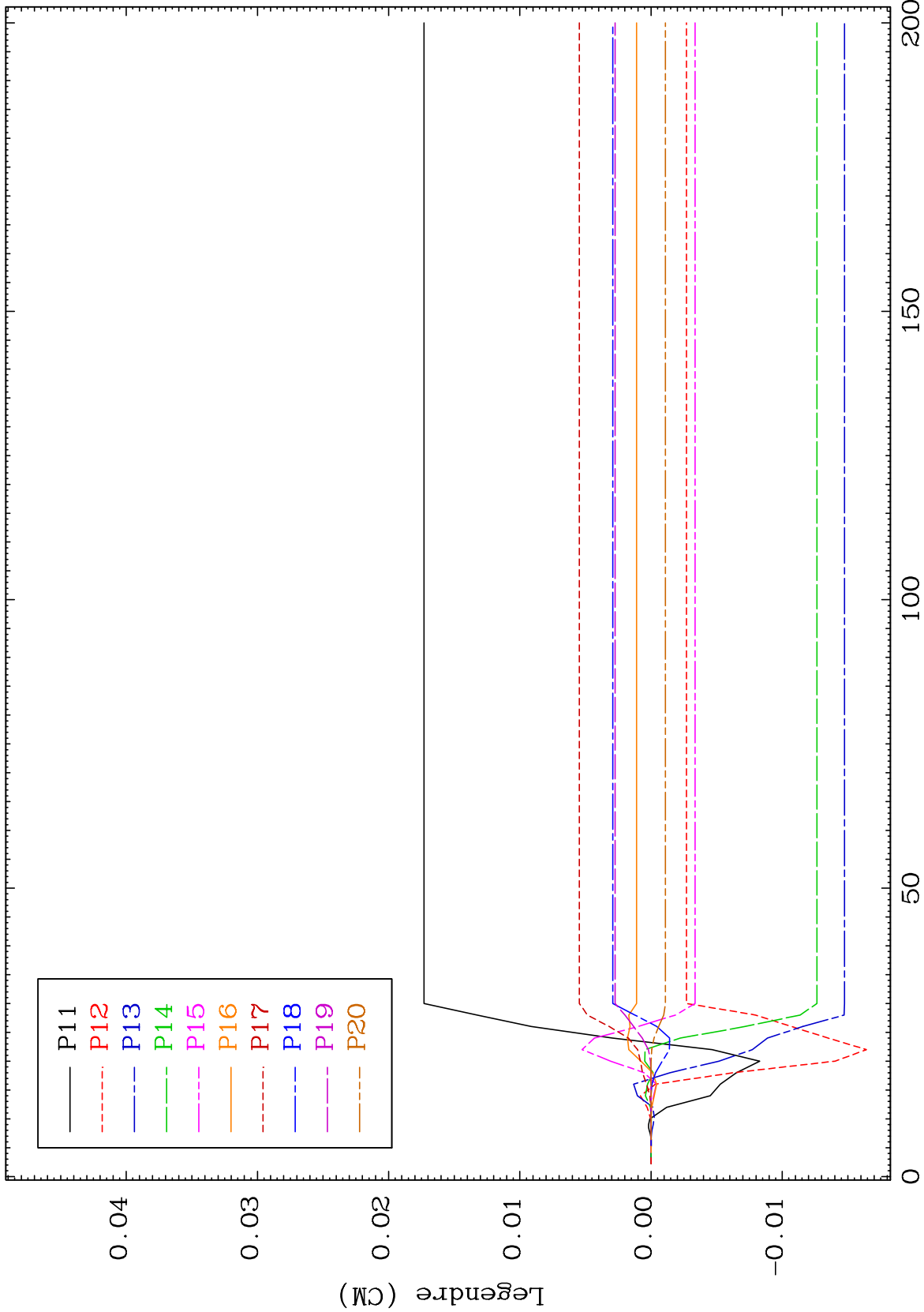
Incident Energy (MeV)

76

MAT 8149

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

81-Tl-211



77

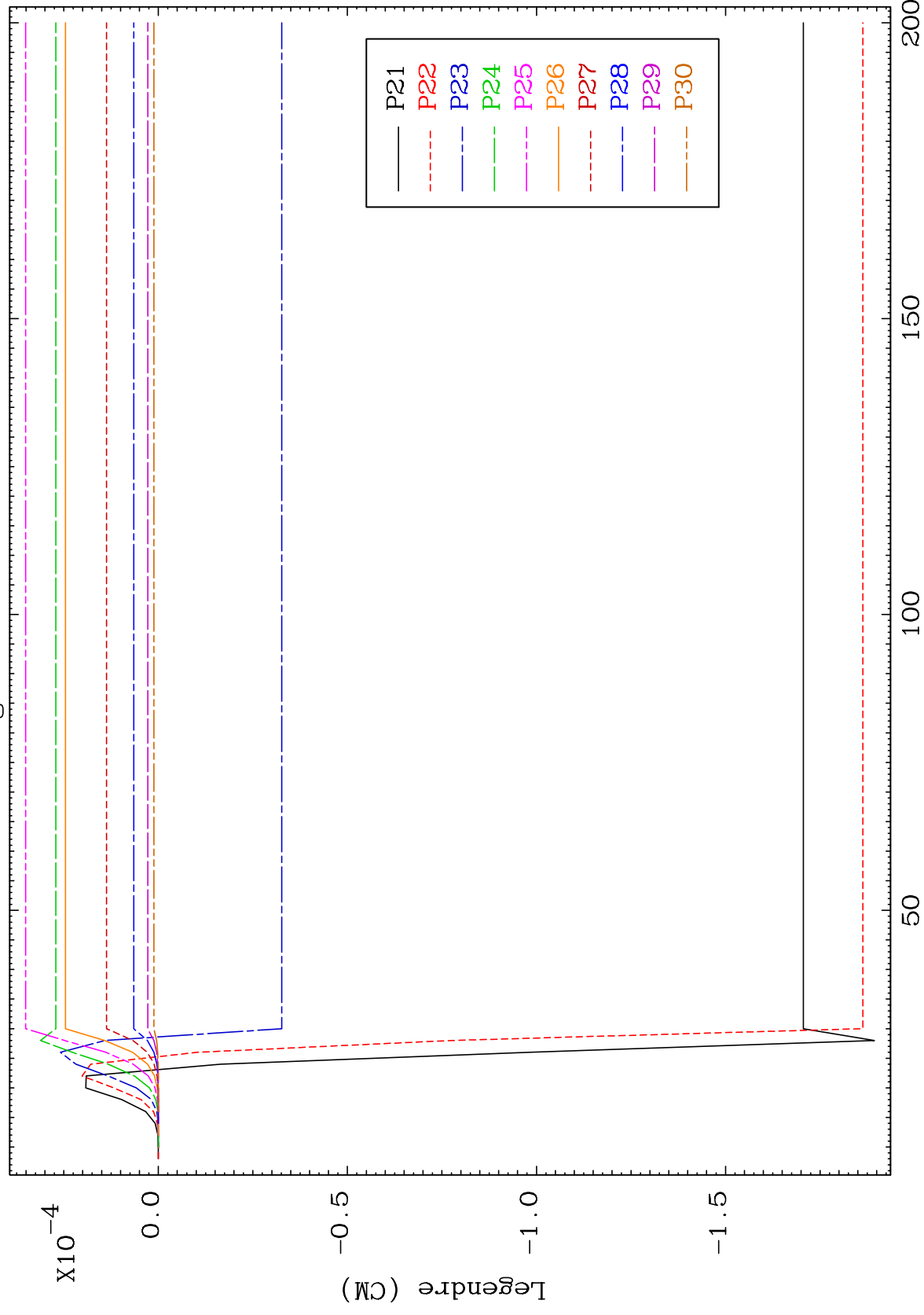
81-Tl-211

81-Tl-211

MAT 8149

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

81-Tl-211



78

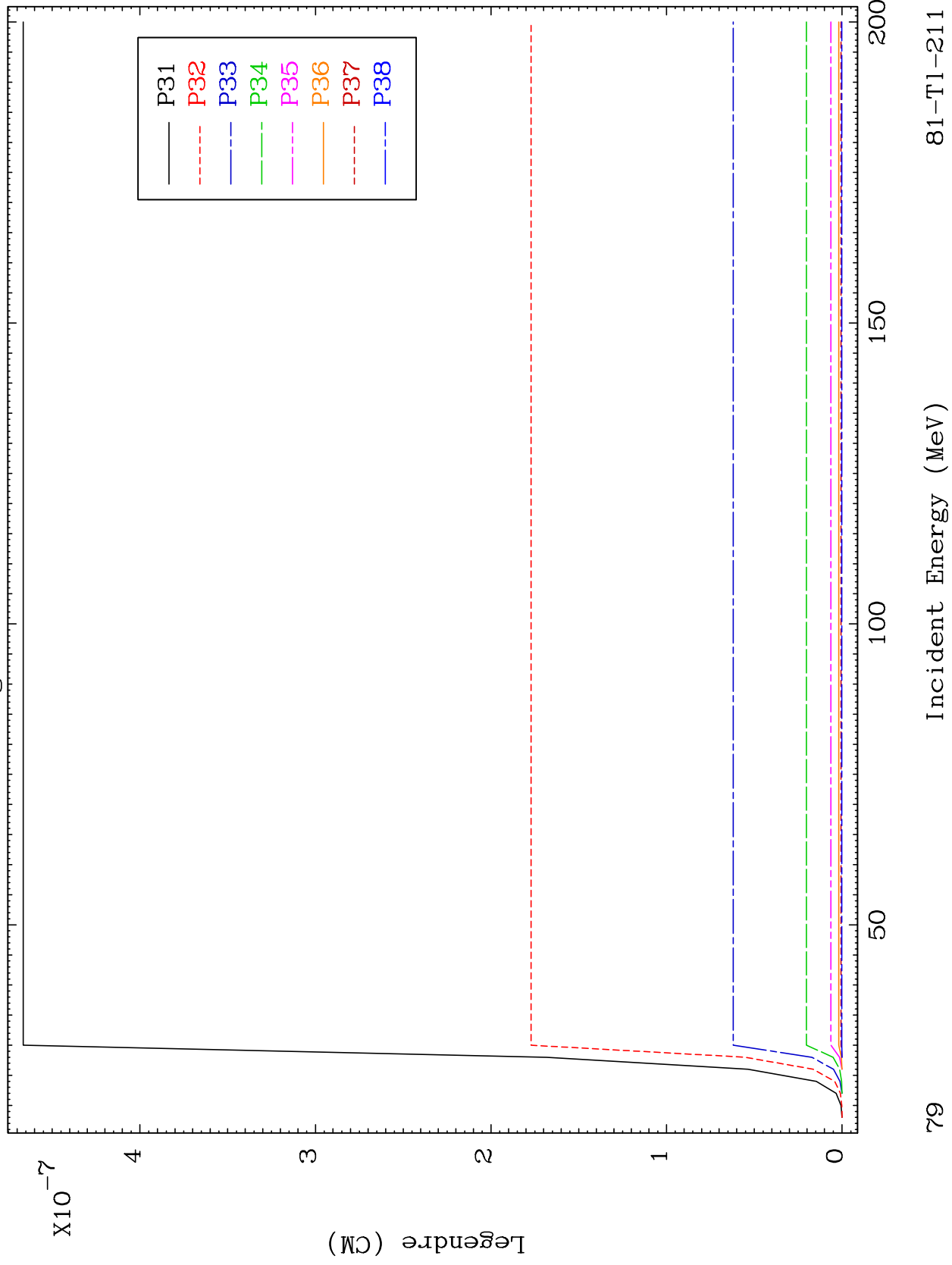
Incident Energy (MeV)

81-Tl-211

MAT 8149

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

81-Tl-211



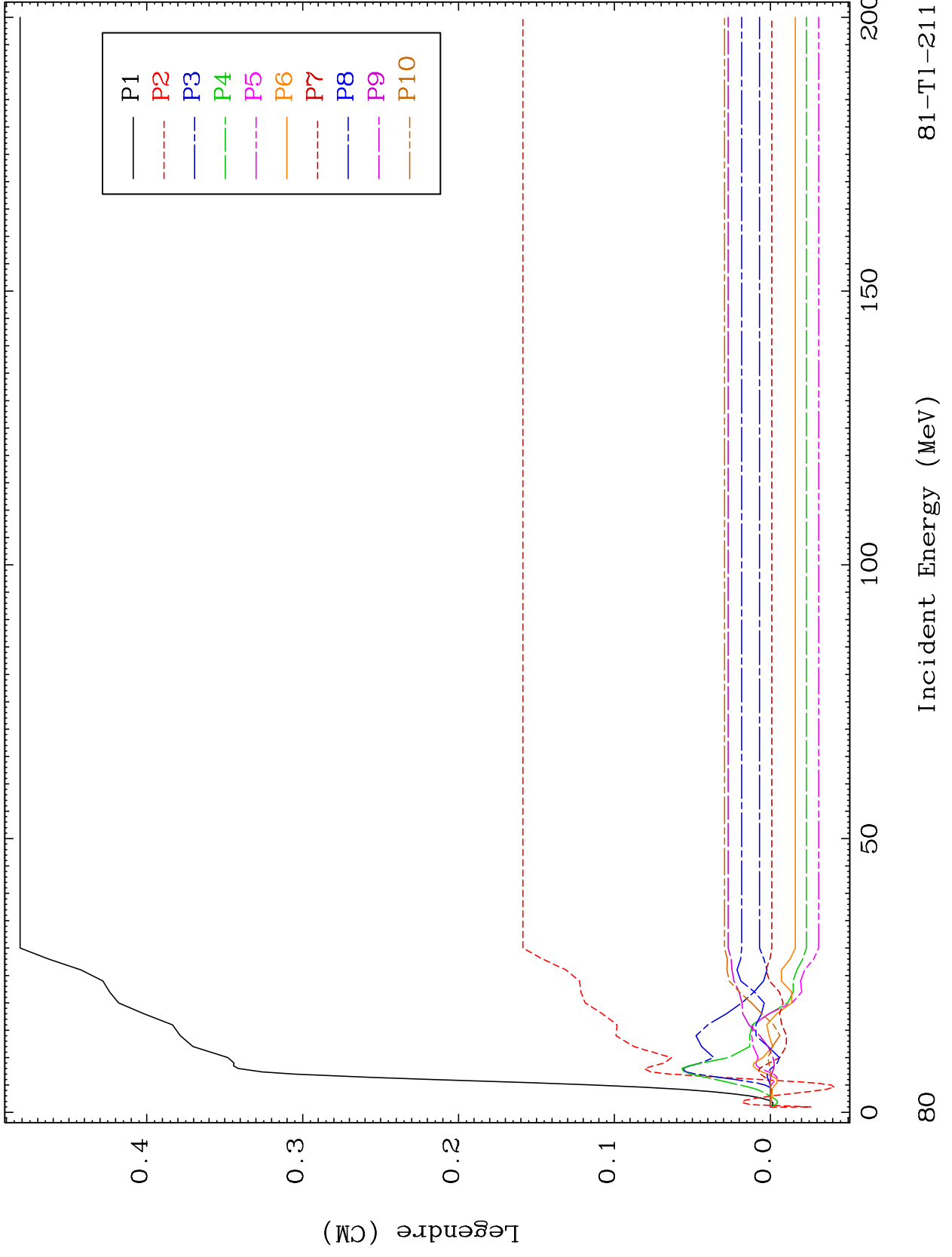
79

81-Tl-211

MAT 8149

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

81-Tl-211

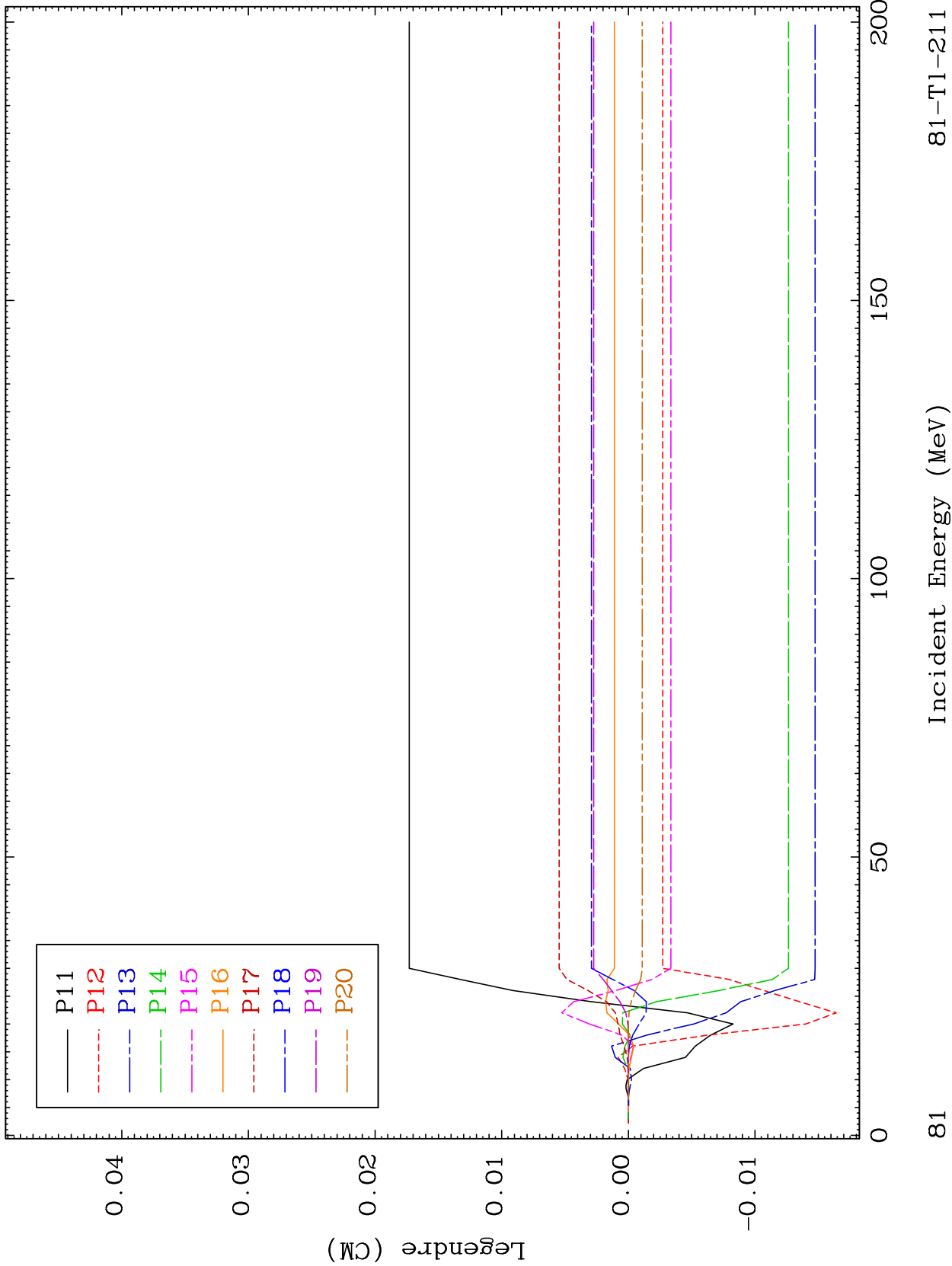


81-Tl-211

MAT 8149

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

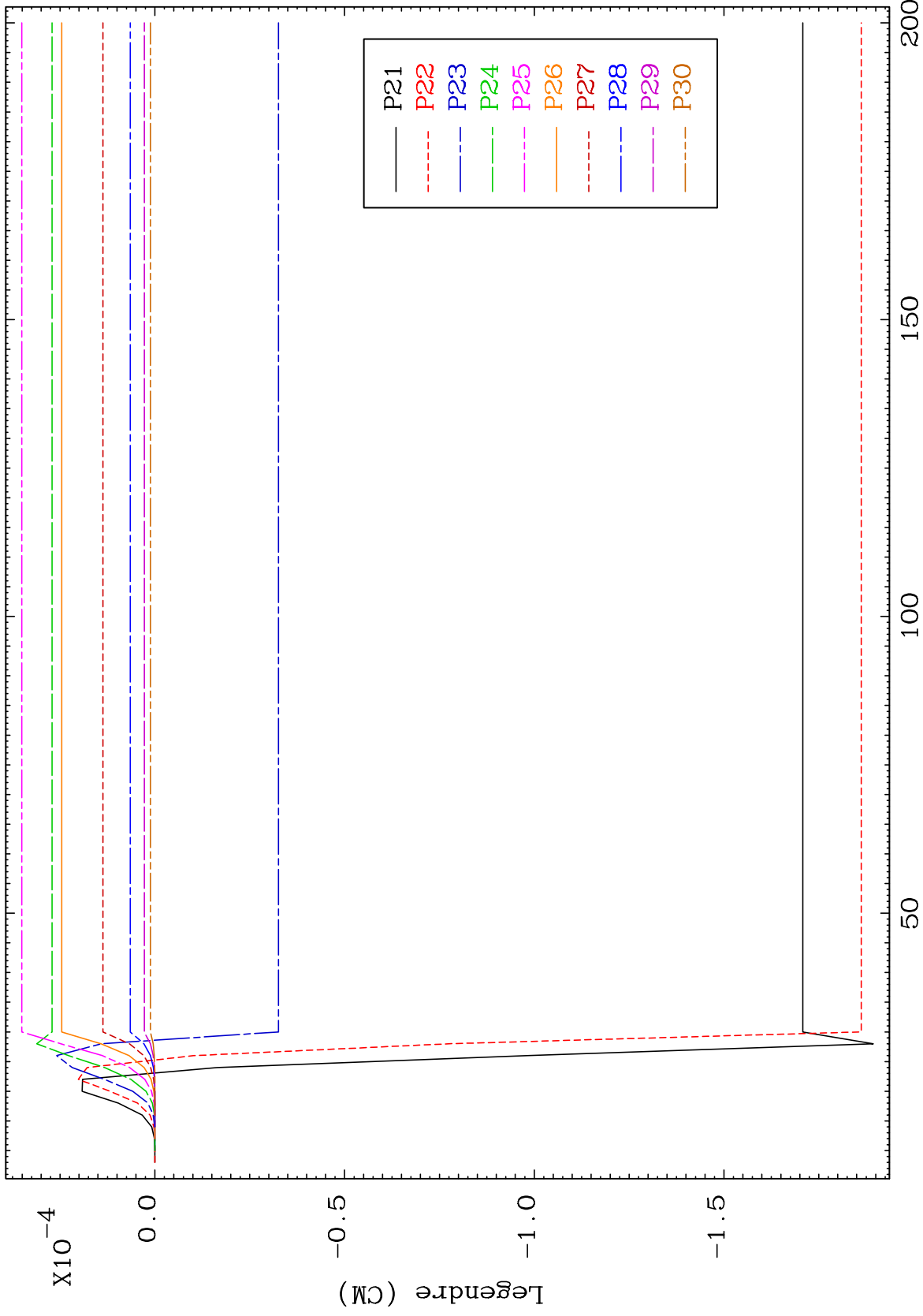
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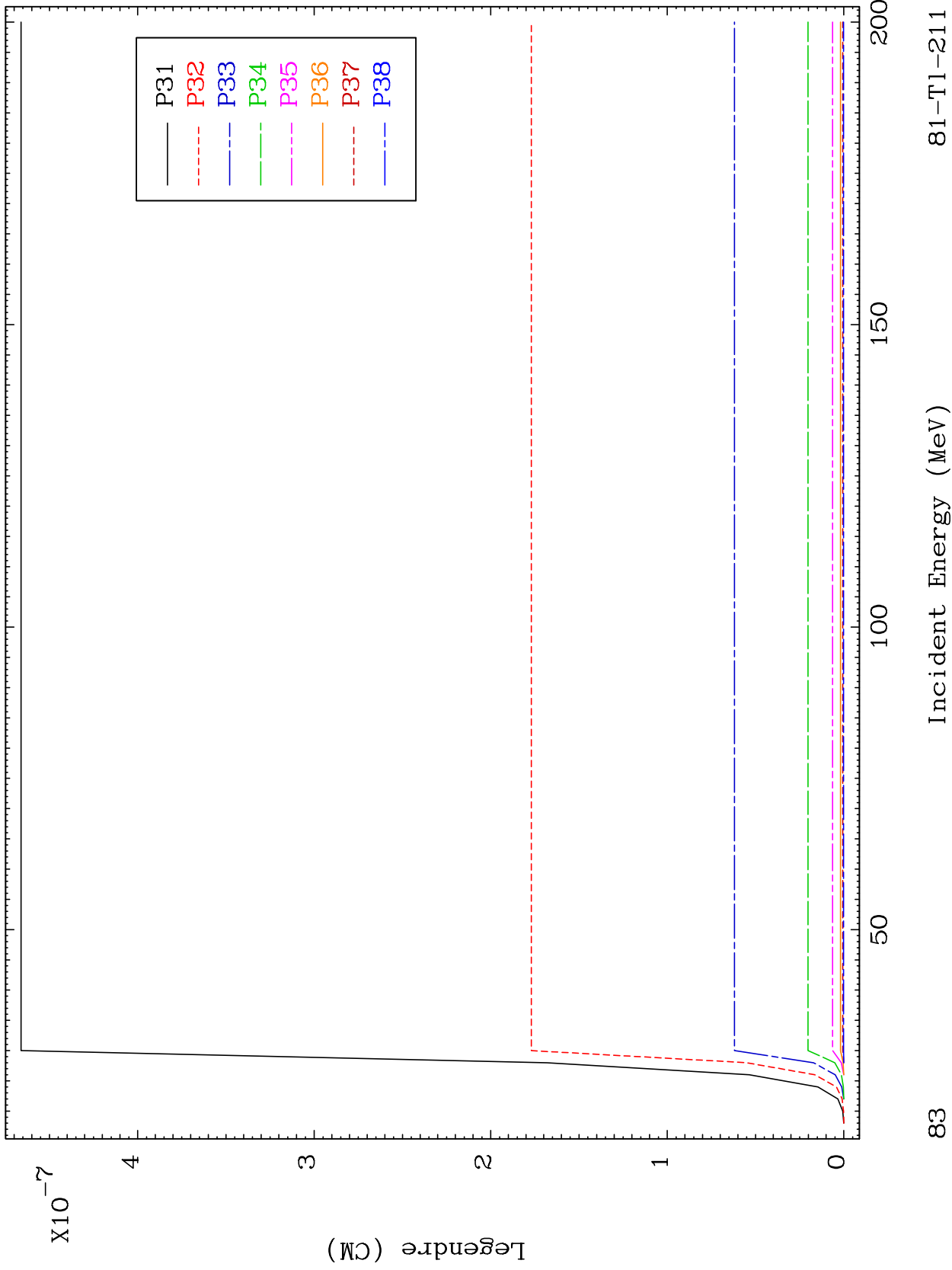


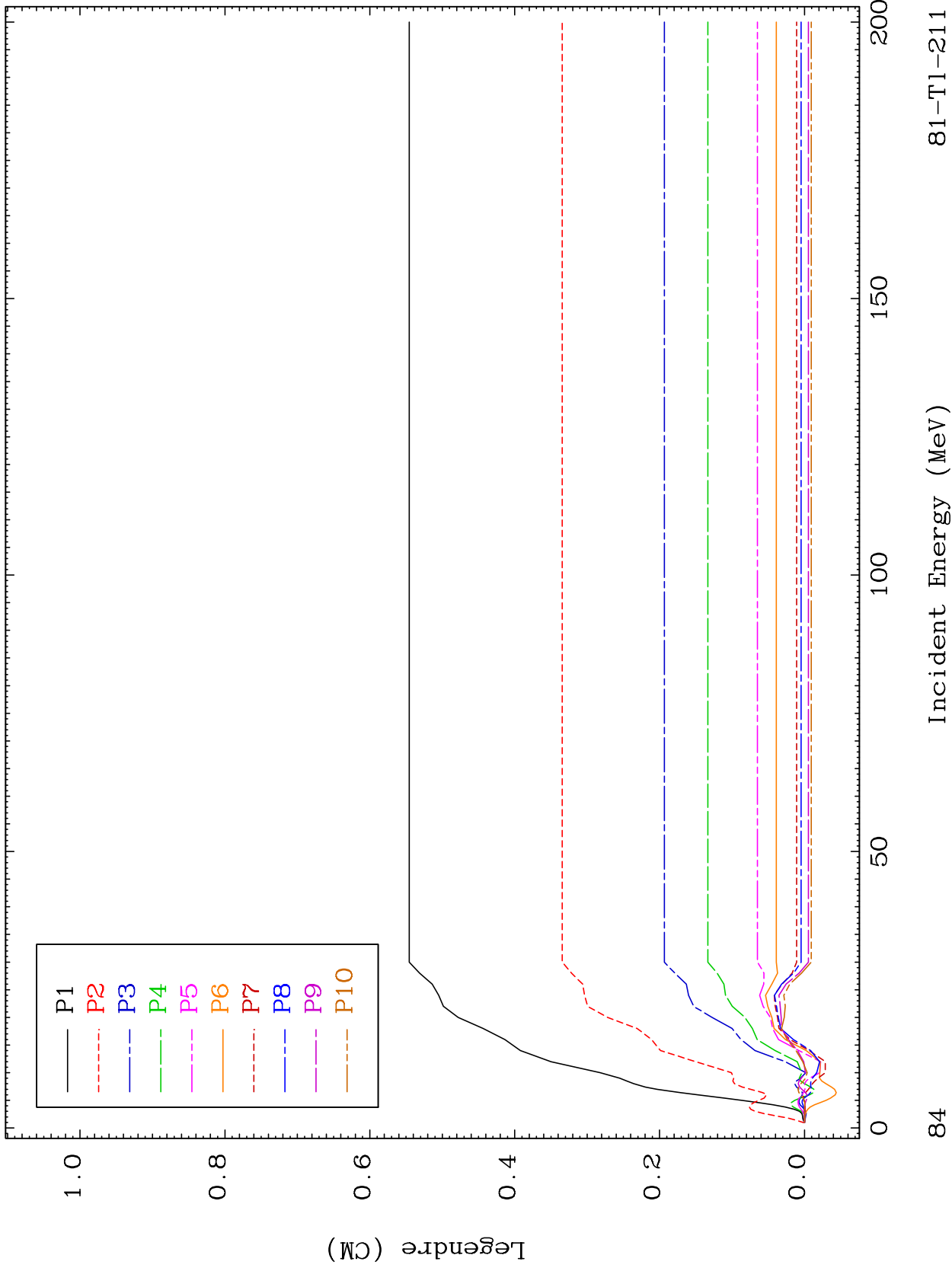
81

Incident Energy (MeV)

81-Tl-211



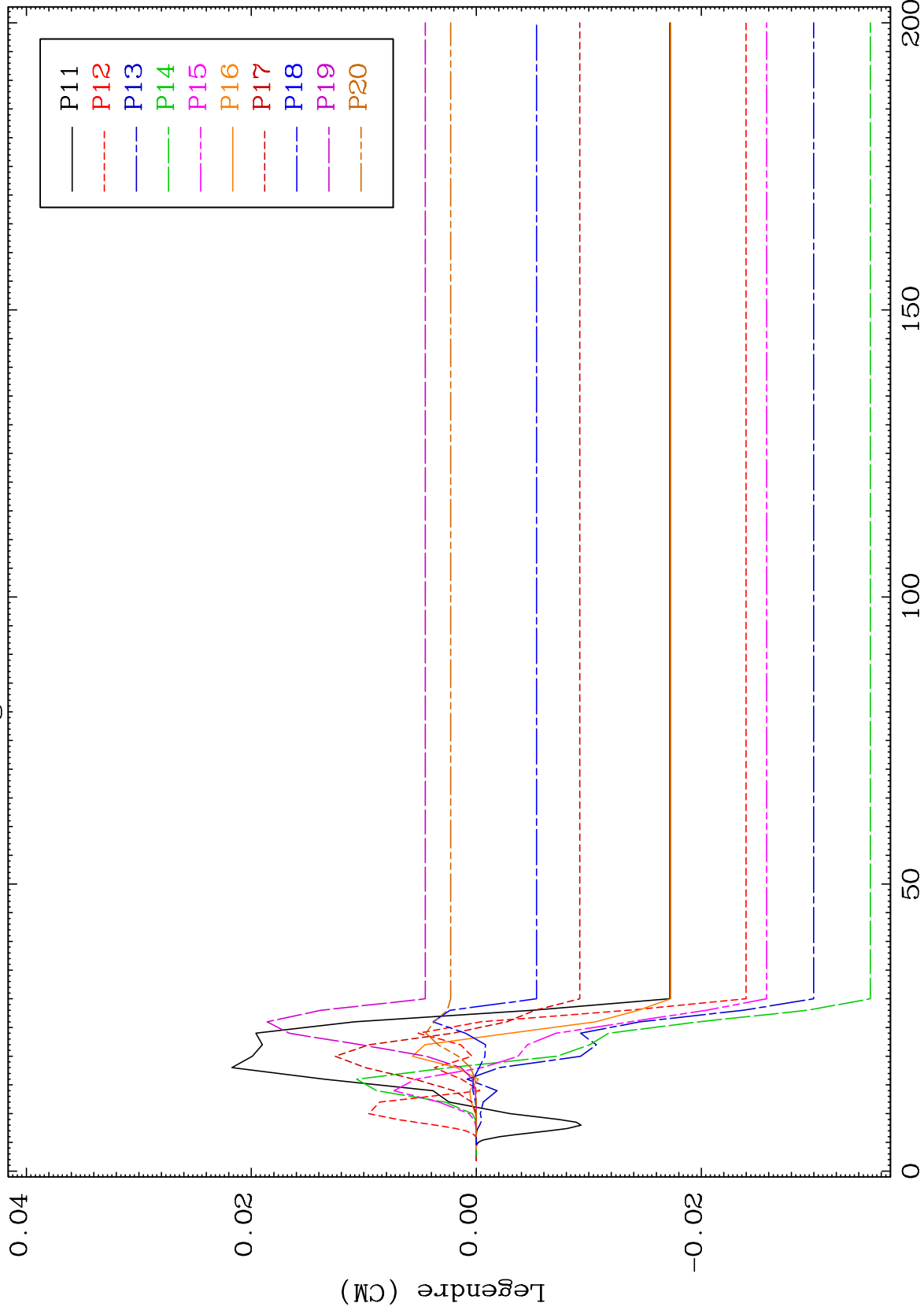




MAT 8149

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

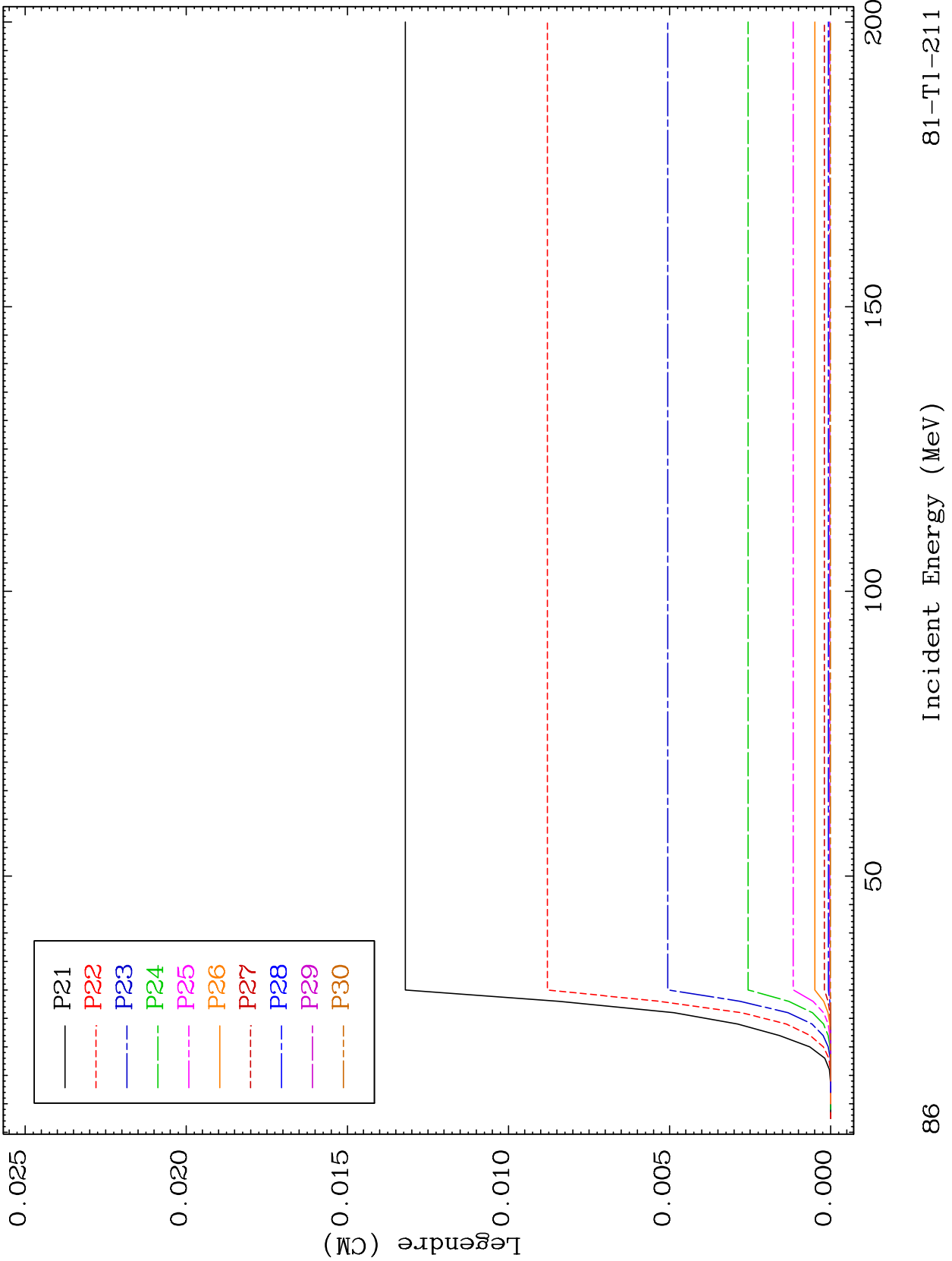
81-Tl-211



85

Incident Energy (MeV)

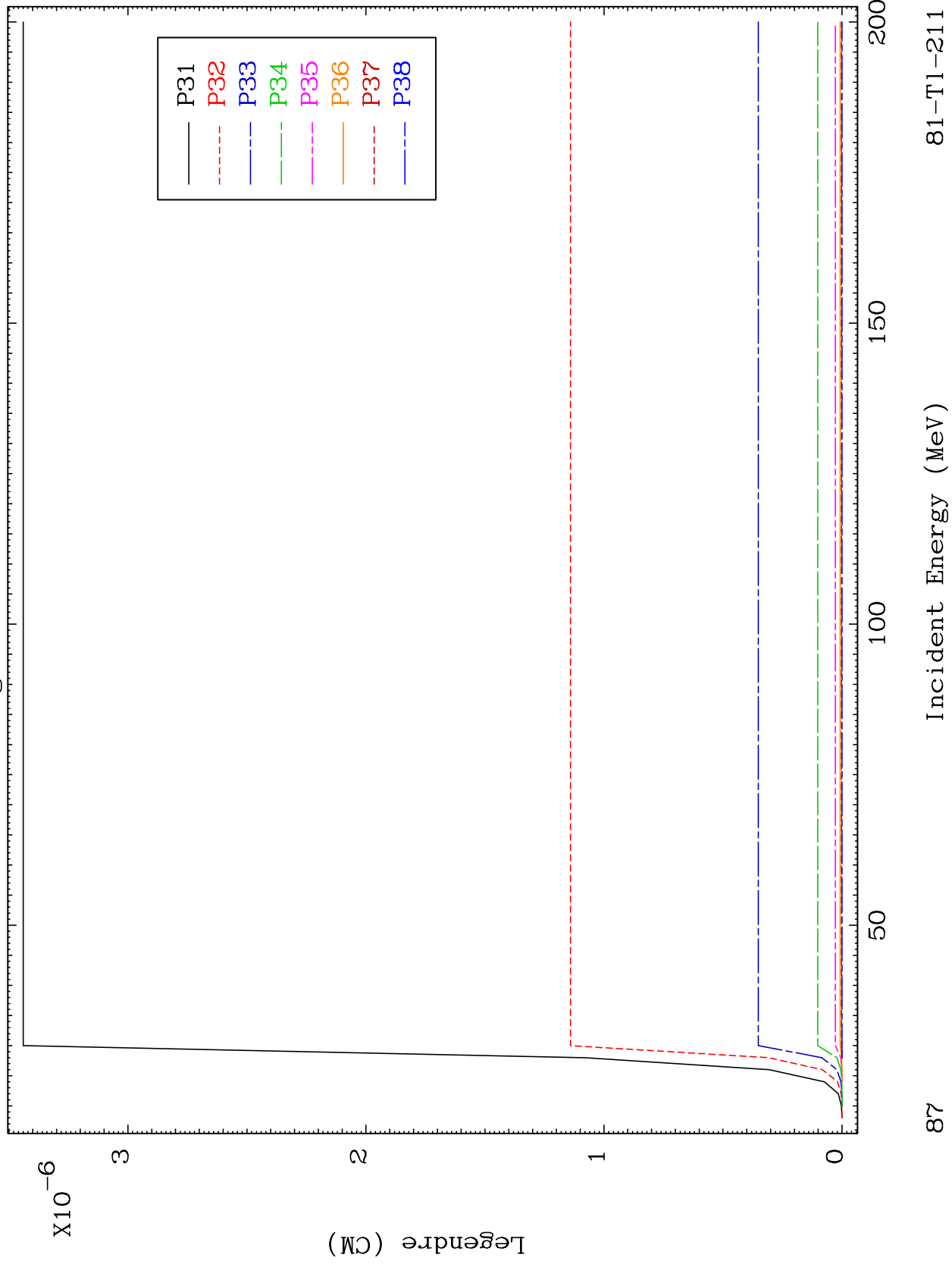
81-Tl-211



MAT 8149

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

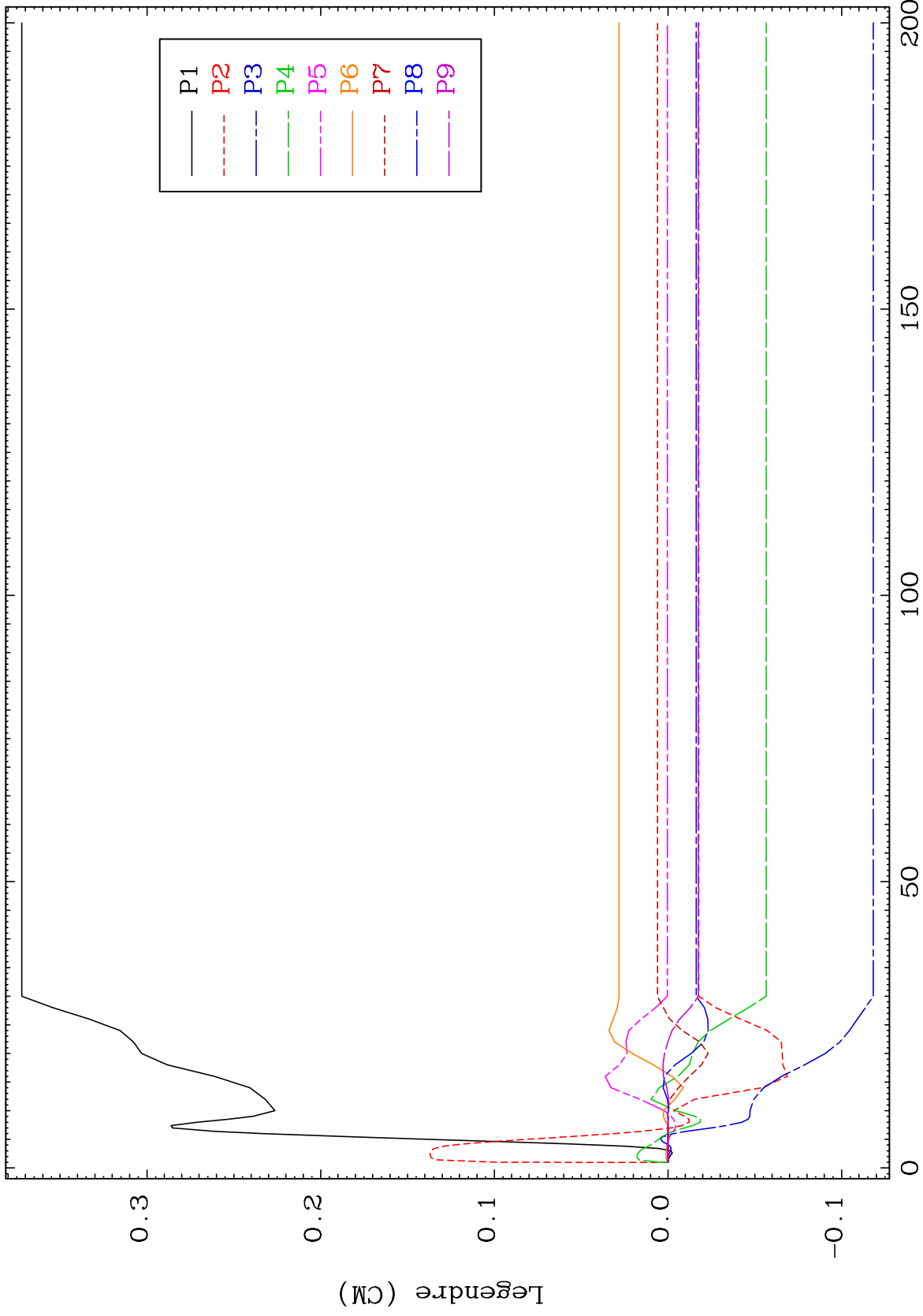
81-Tl-211



MAT 8149

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

81-Tl-211



88

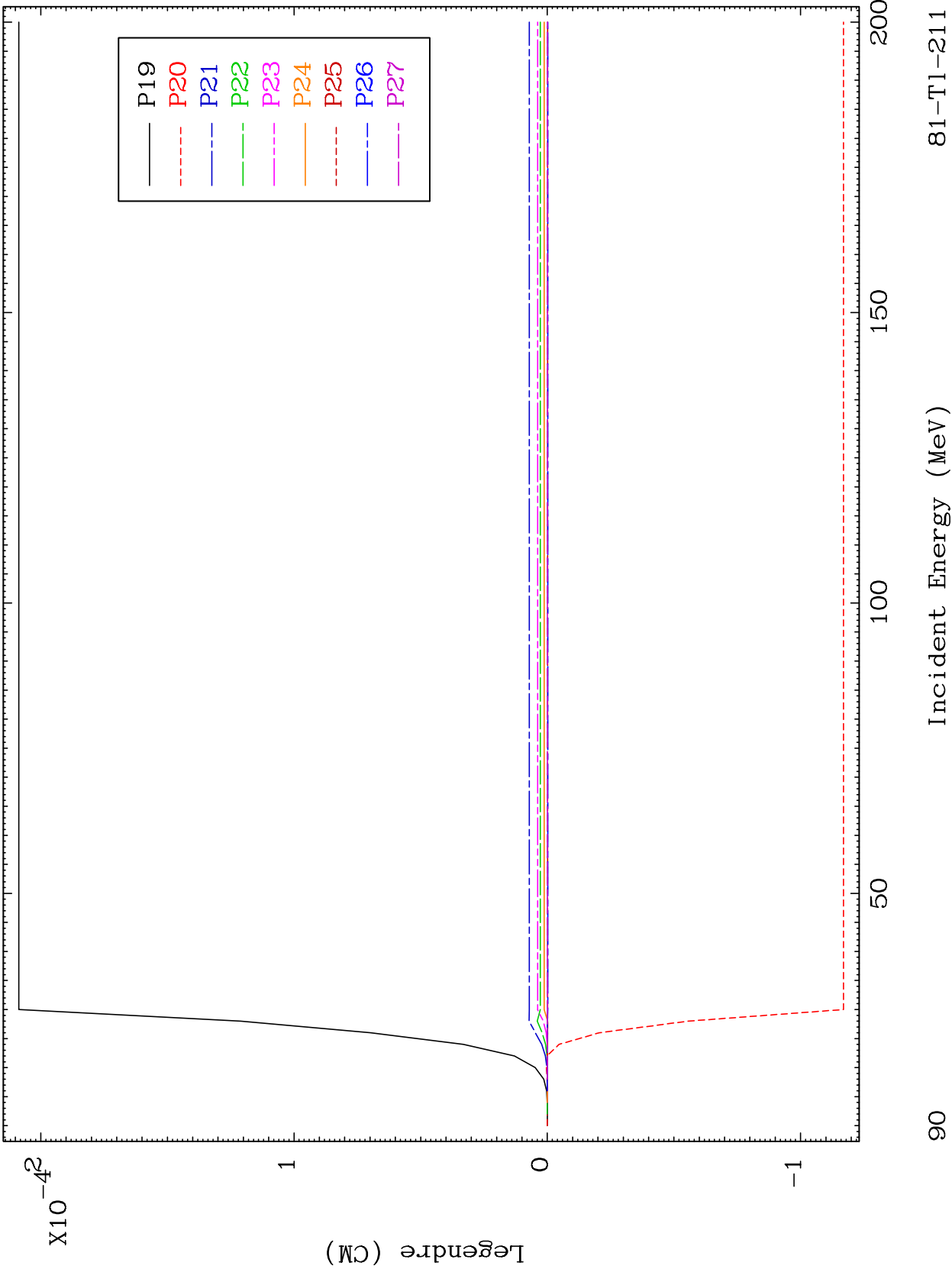
Incident Energy (MeV)

81-Tl-211

MAT 8149

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

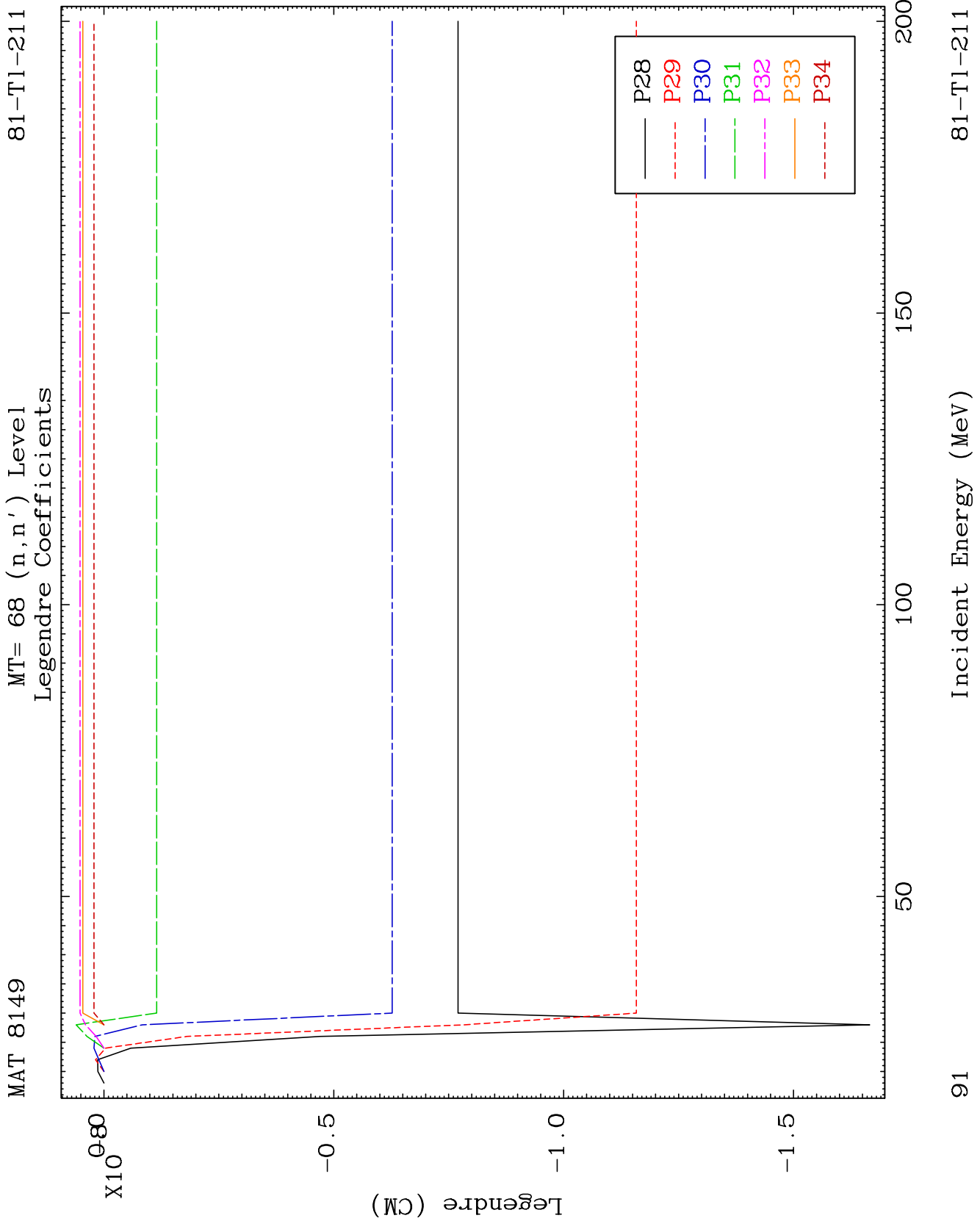
81-Tl-211



90

Incident Energy (MeV)

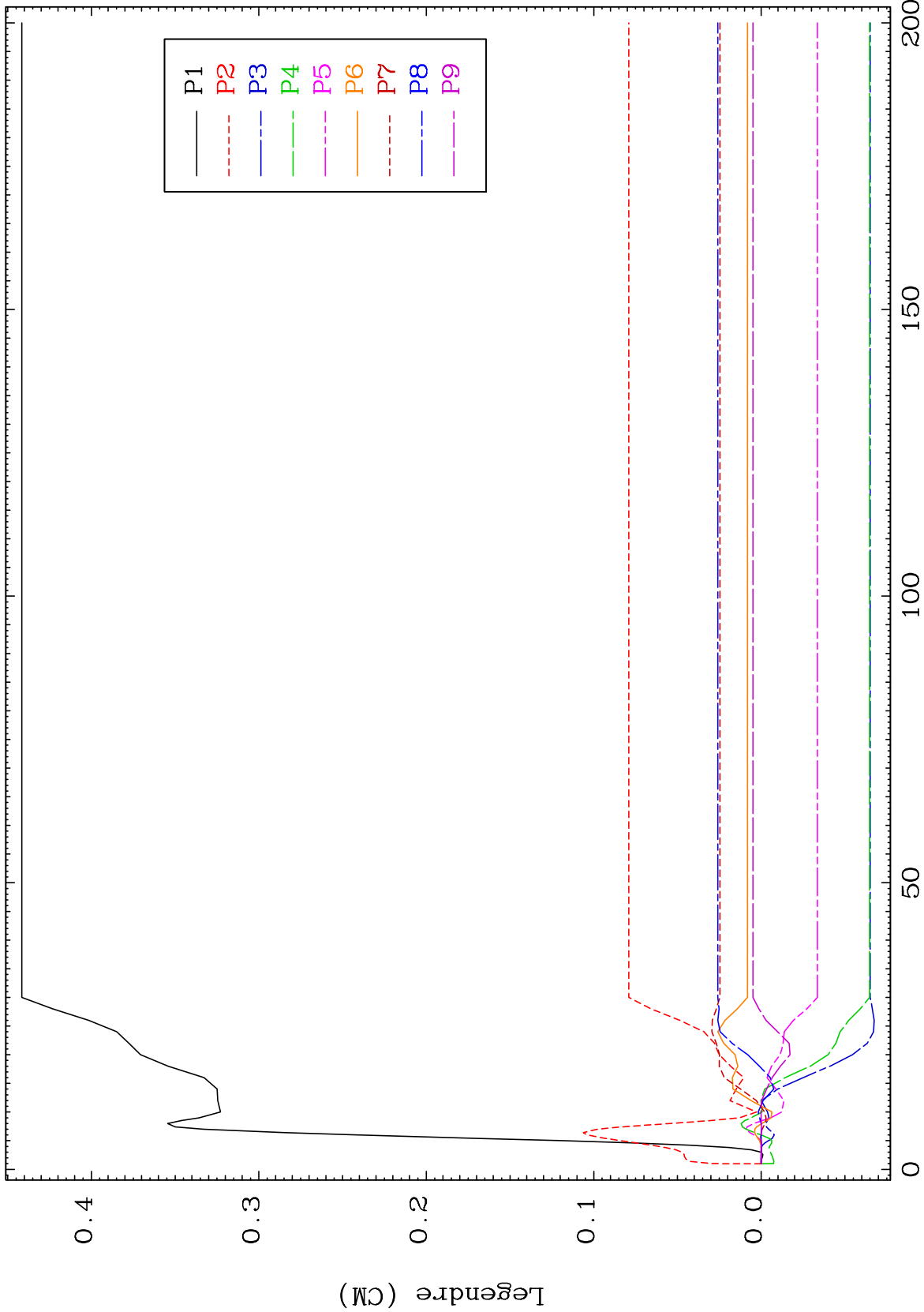
81-Tl-211



MAT 8149

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

81-Tl-211



92

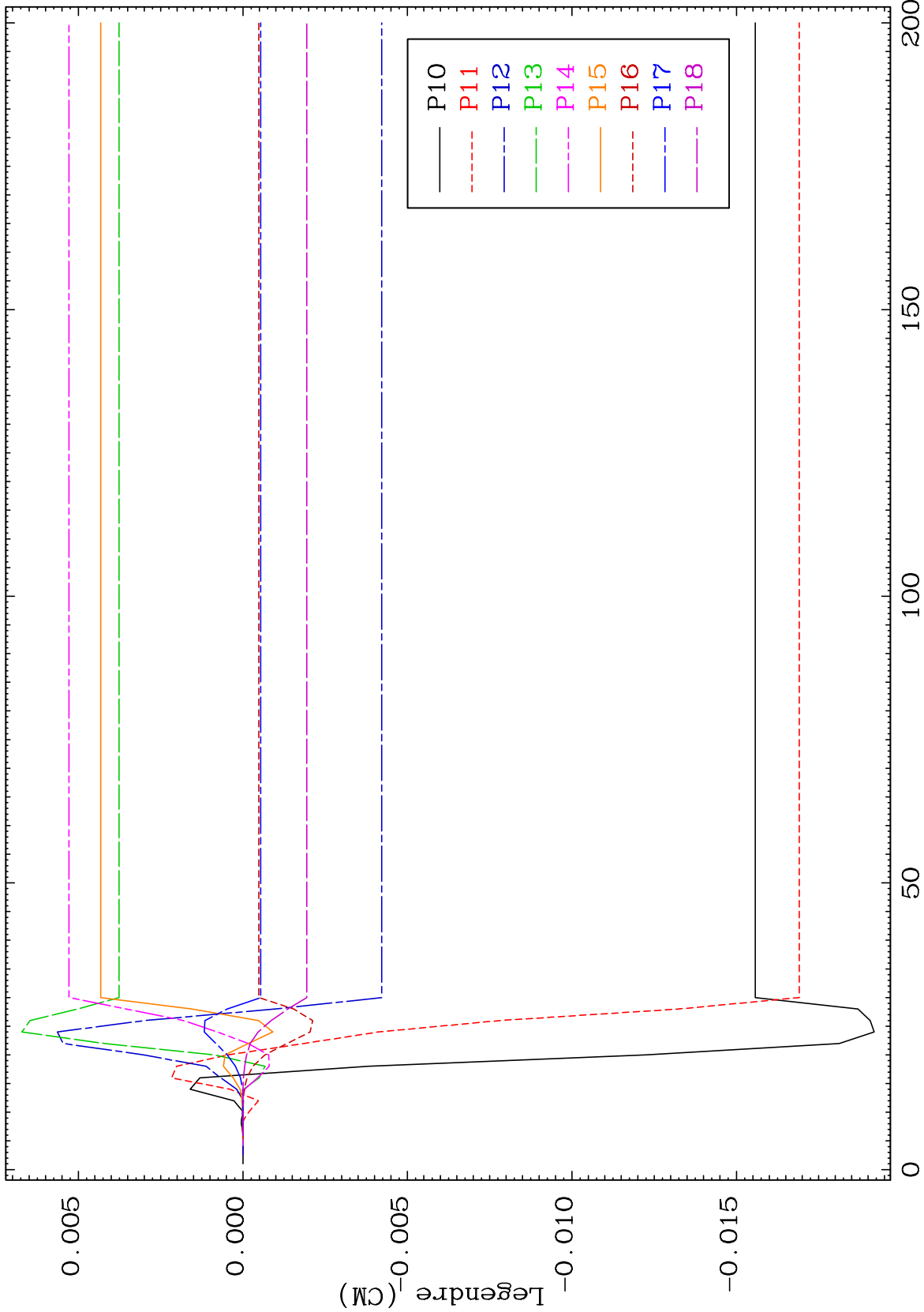
Incident Energy (MeV)

81-Tl-211

MAT 8149

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

81-Tl-211



93

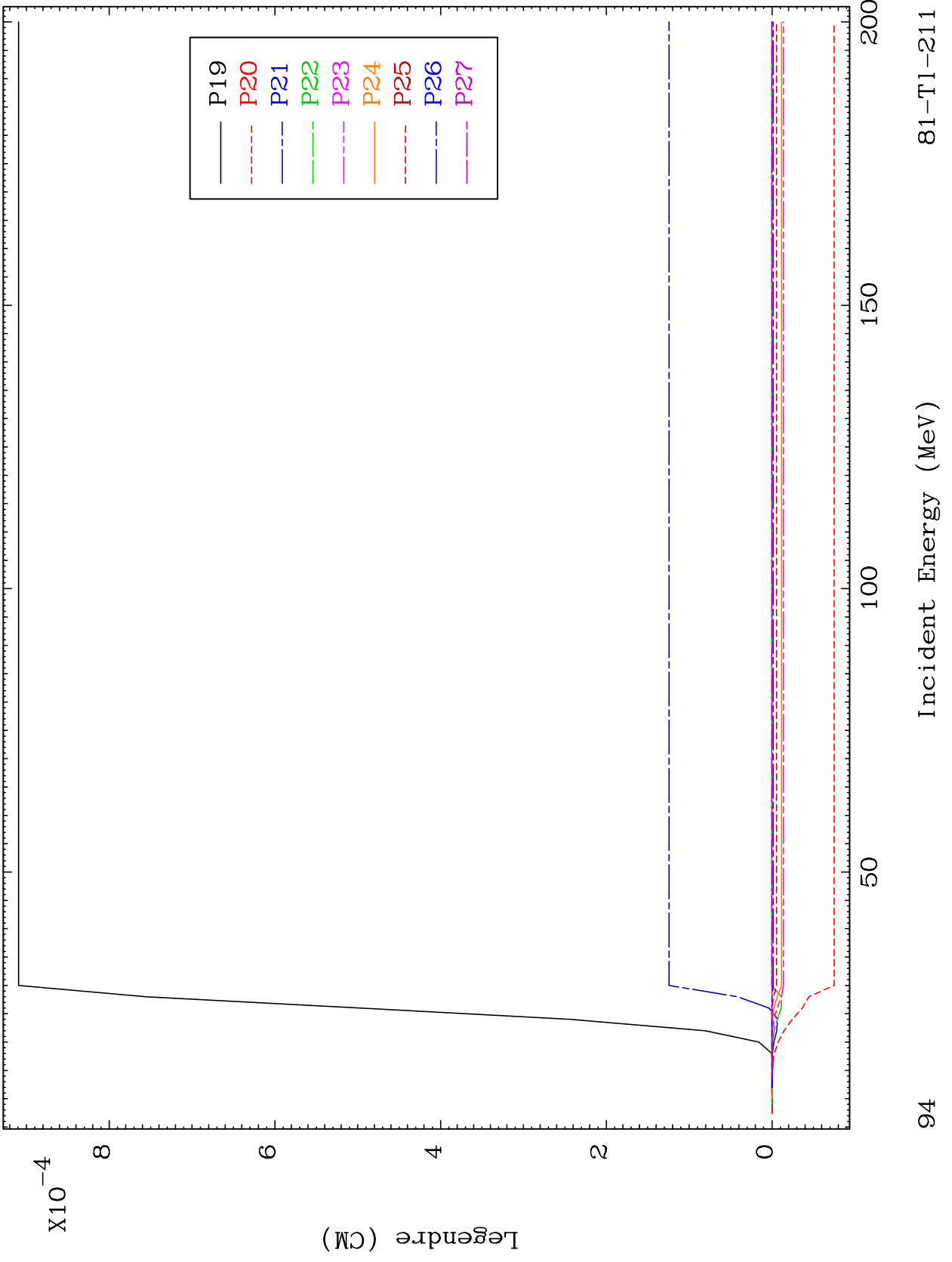
Incident Energy (MeV)

81-Tl-211

MAT 8149

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

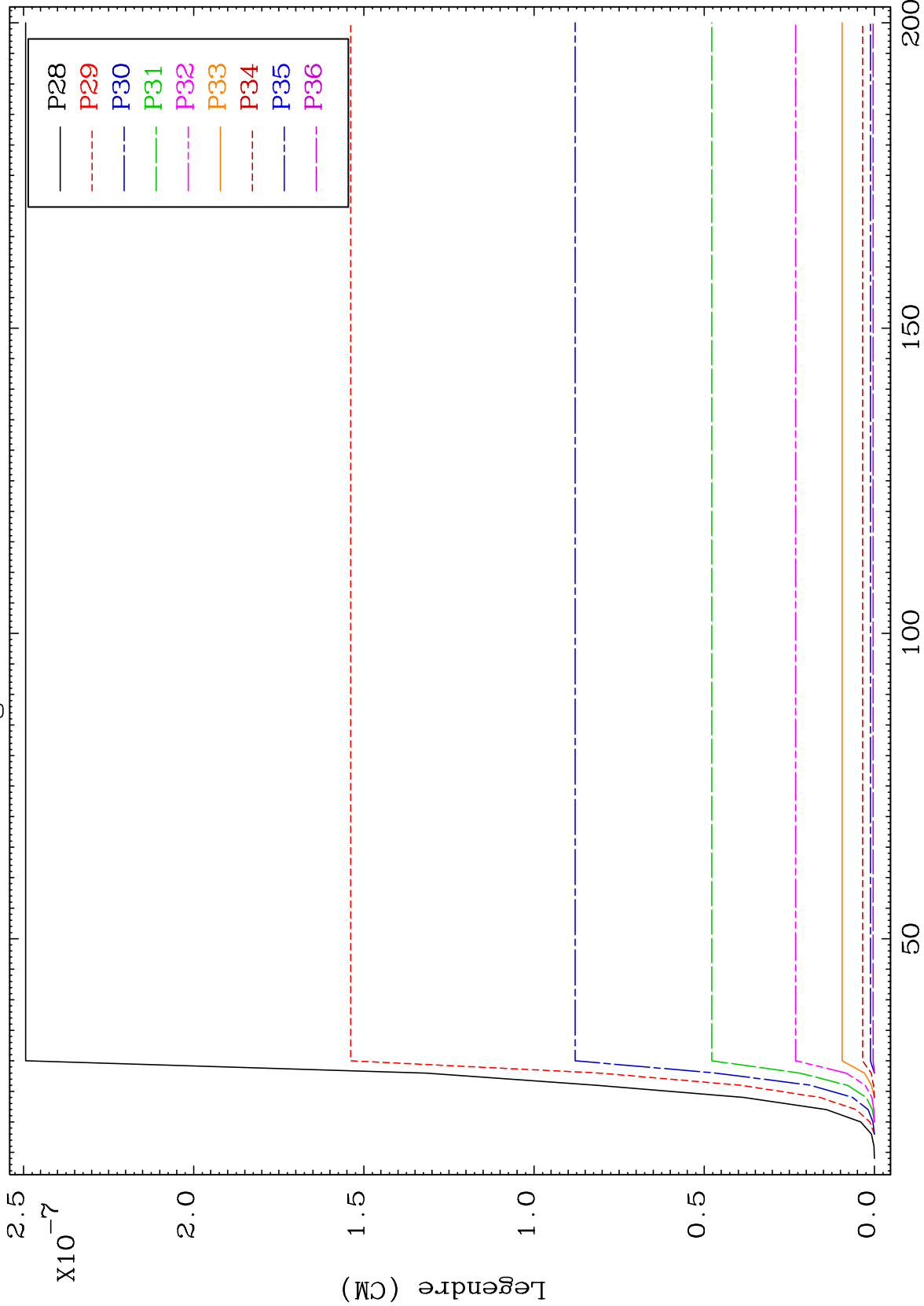
81-Tl-211



MAT 8149

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

81-Tl-211



95

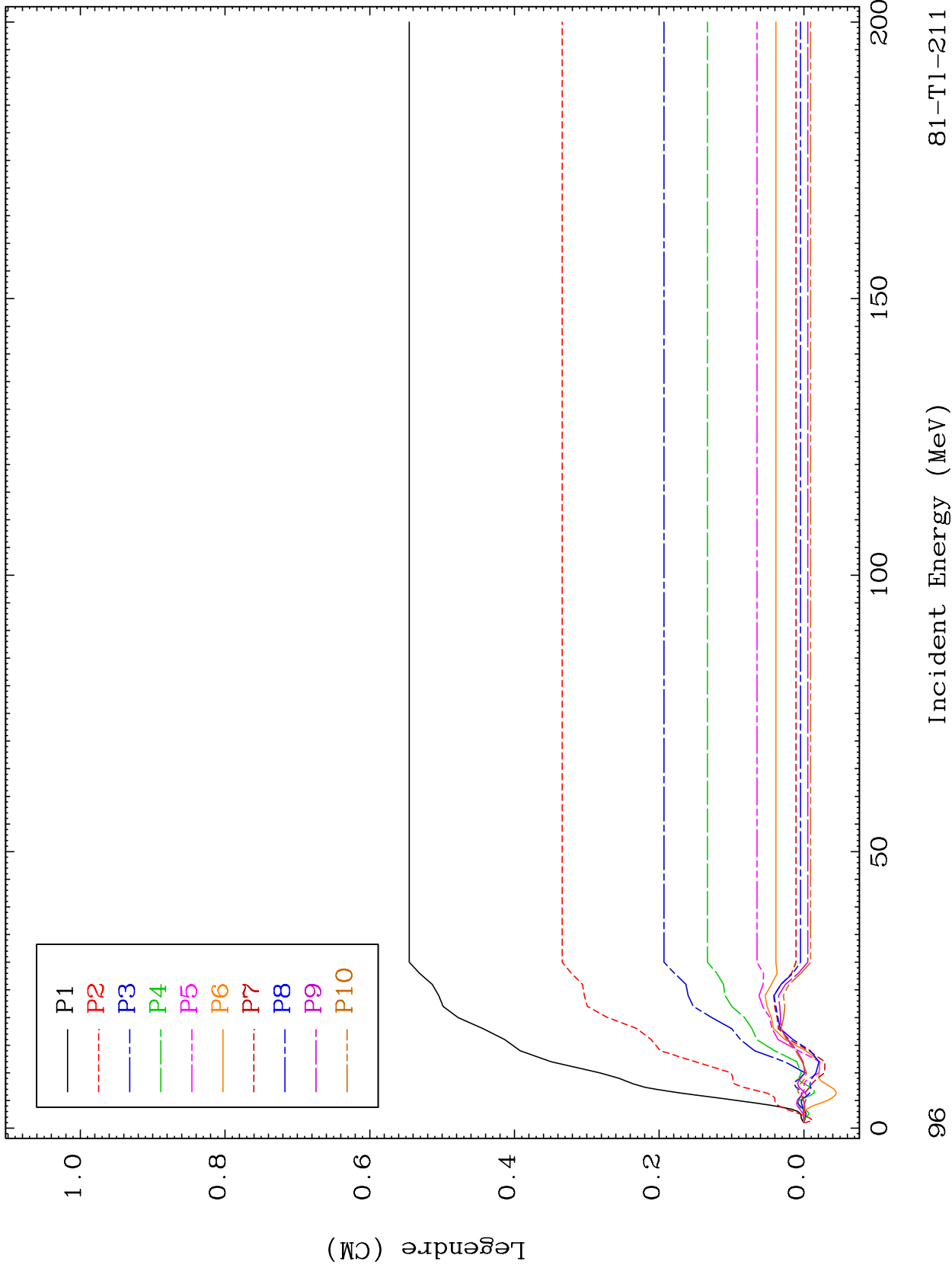
Incident Energy (MeV)

81-Tl-211

MAT 8149

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

81-Tl-211



96

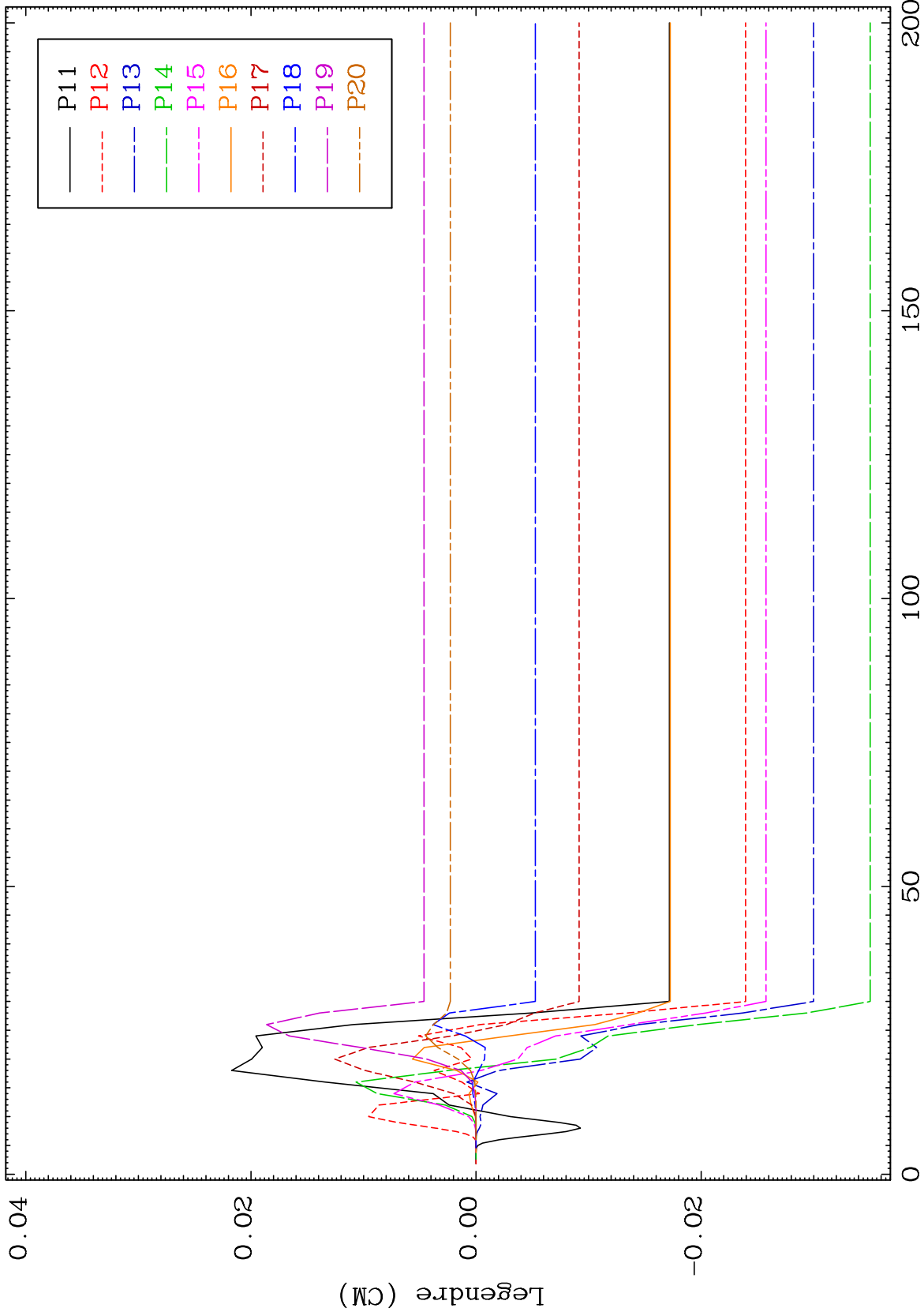
Incident Energy (MeV)

81-Tl-211

MAT 8149

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

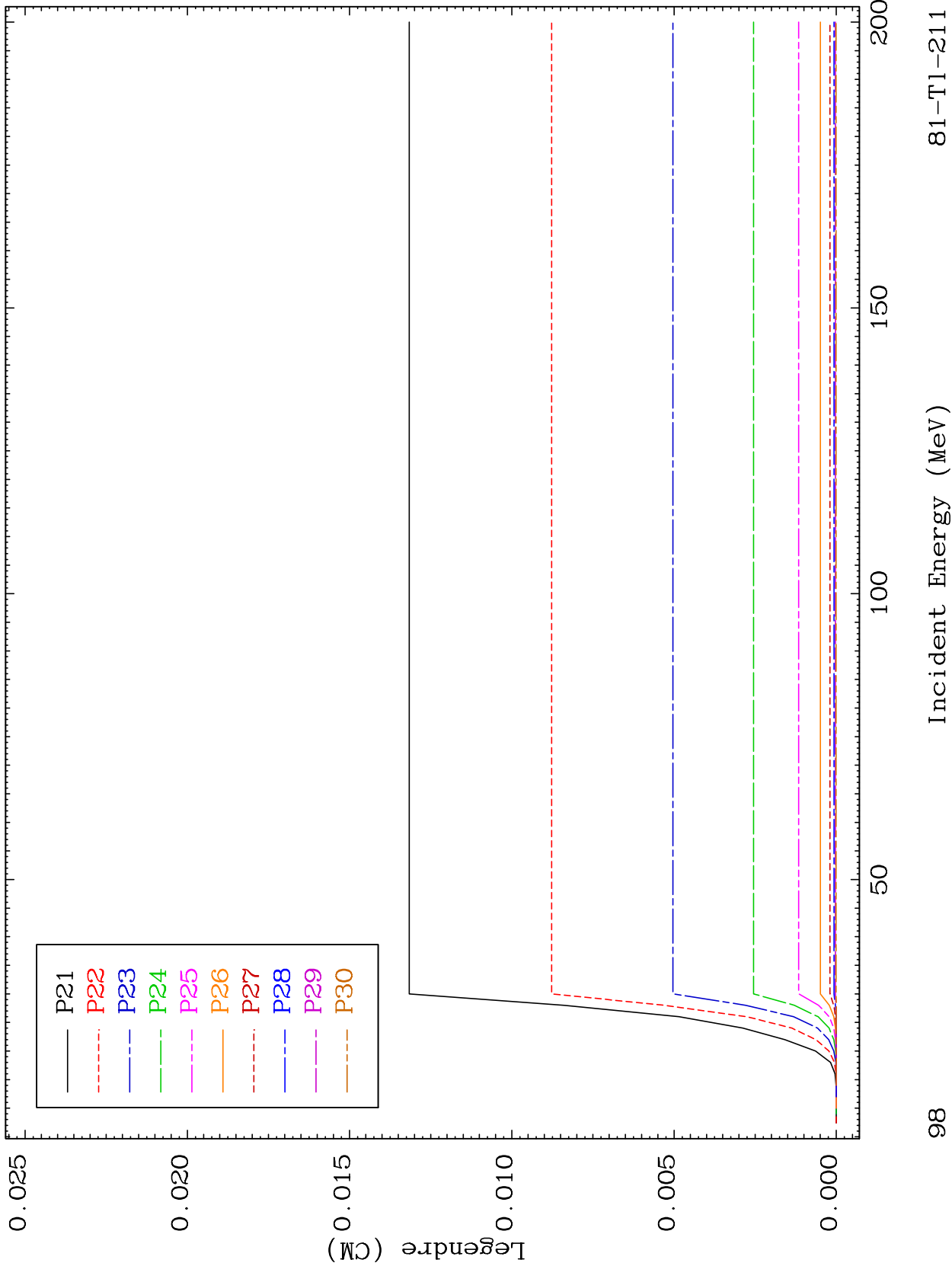
81-Tl-211



97

Incident Energy (MeV)

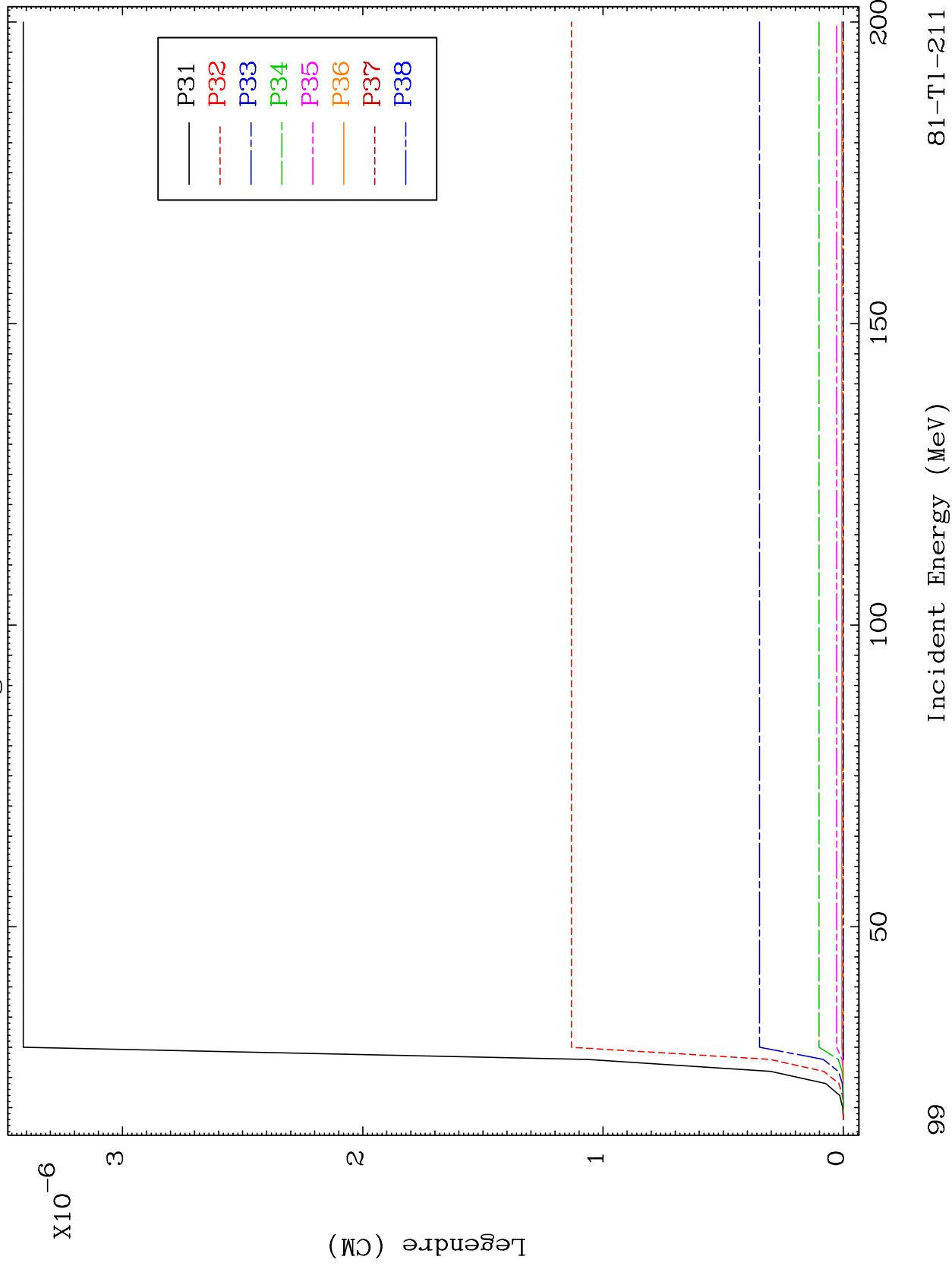
81-Tl-211

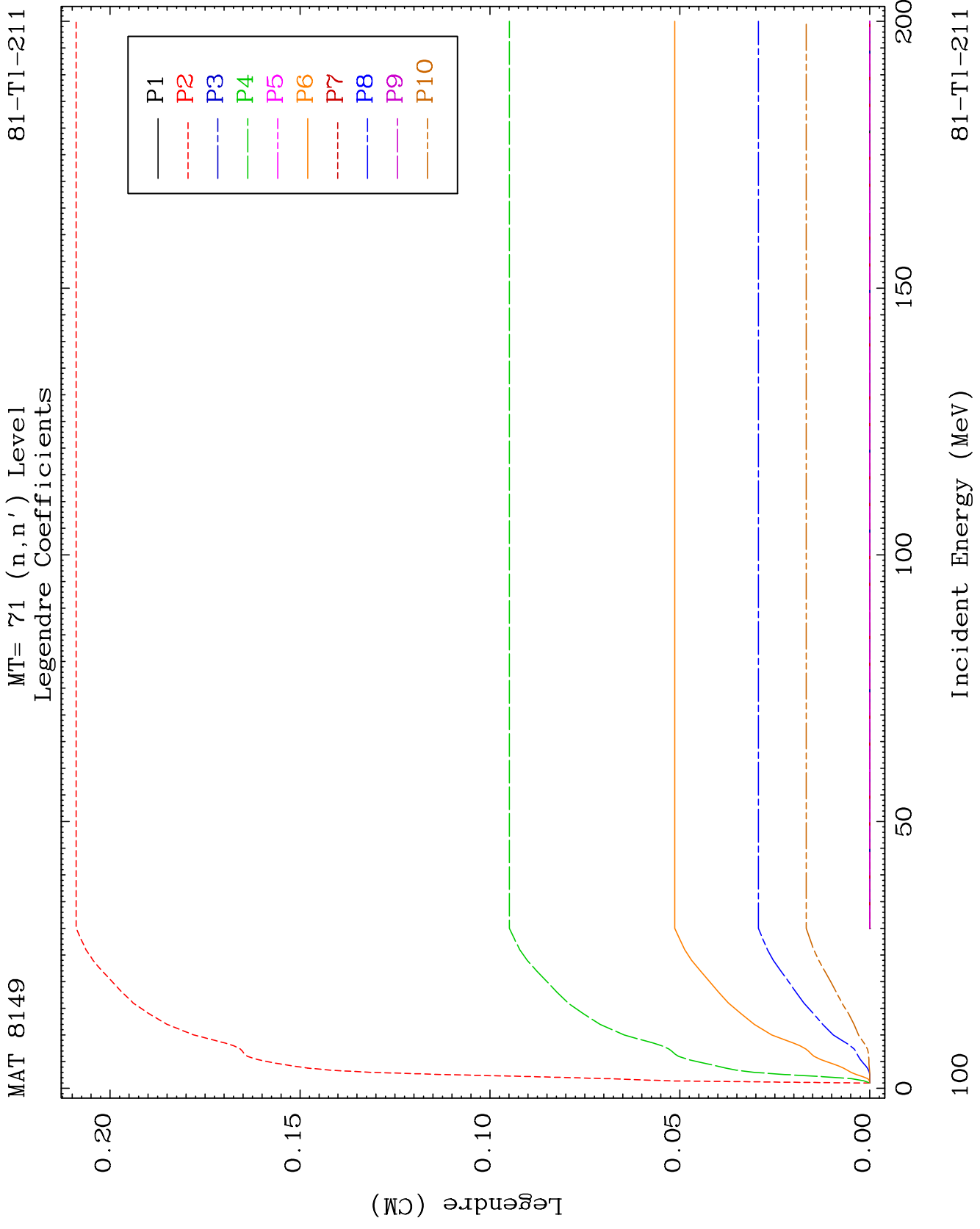


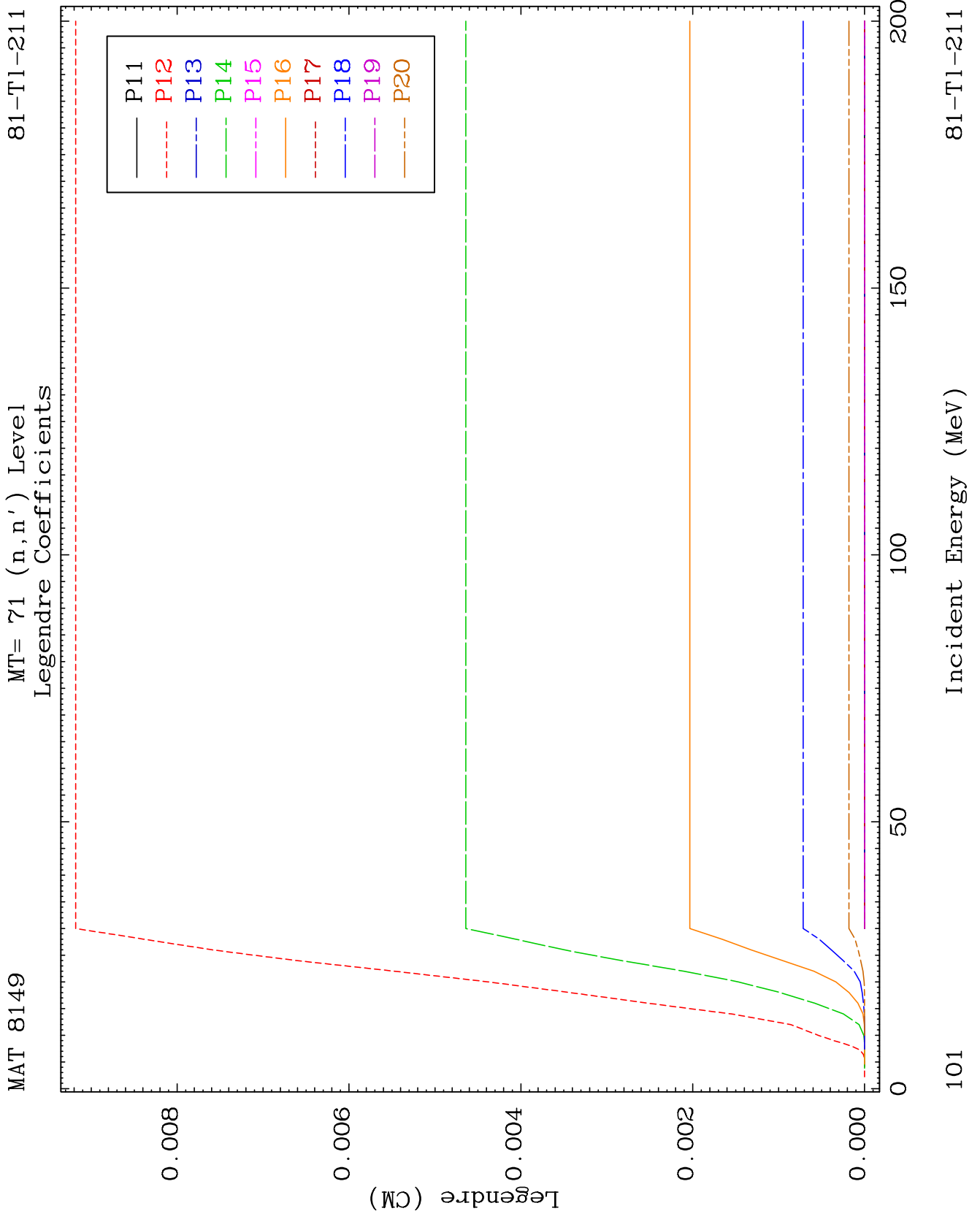
MAT 8149

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

81-Tl-211



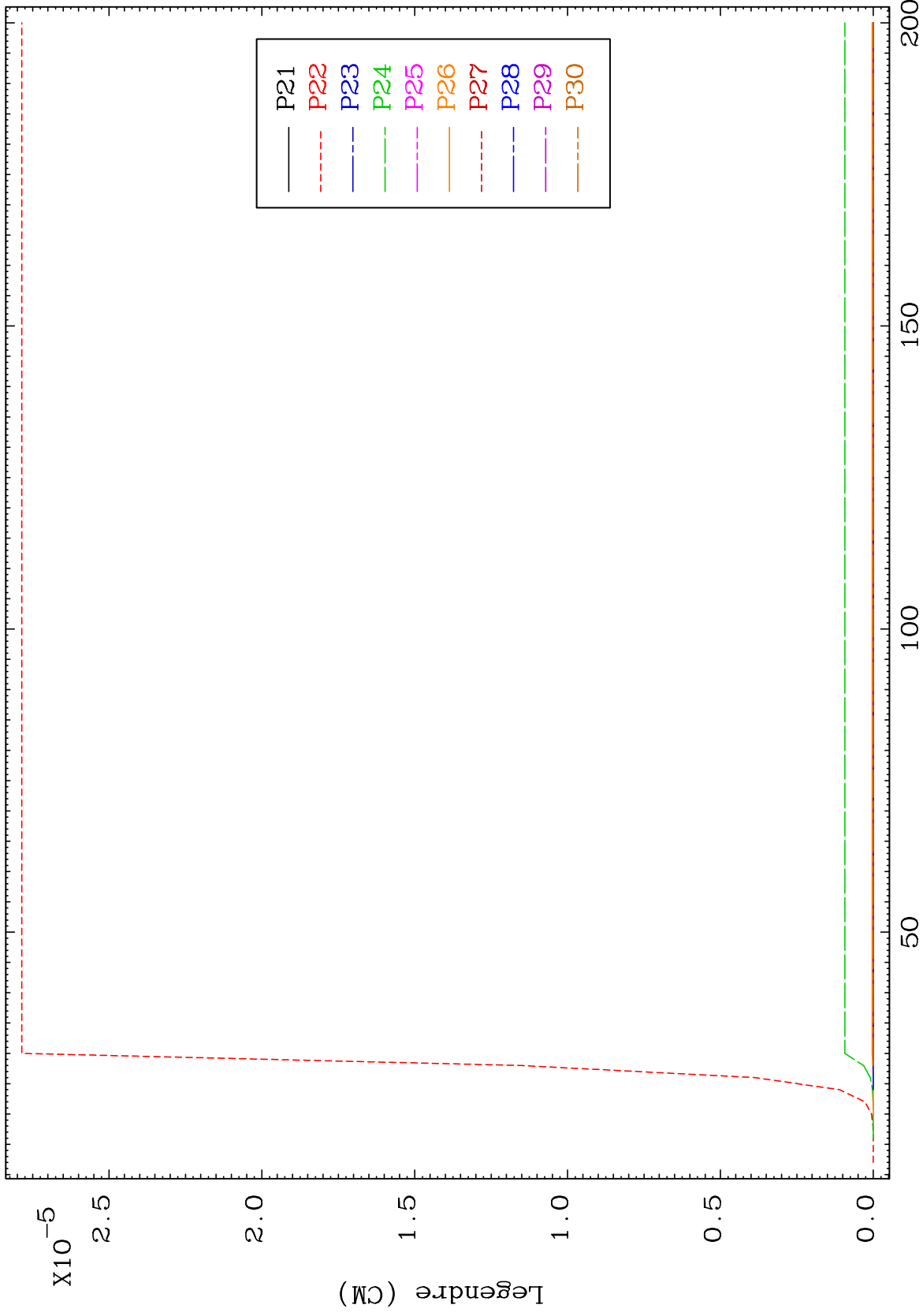




MAT 8149

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

81-Tl-211



102

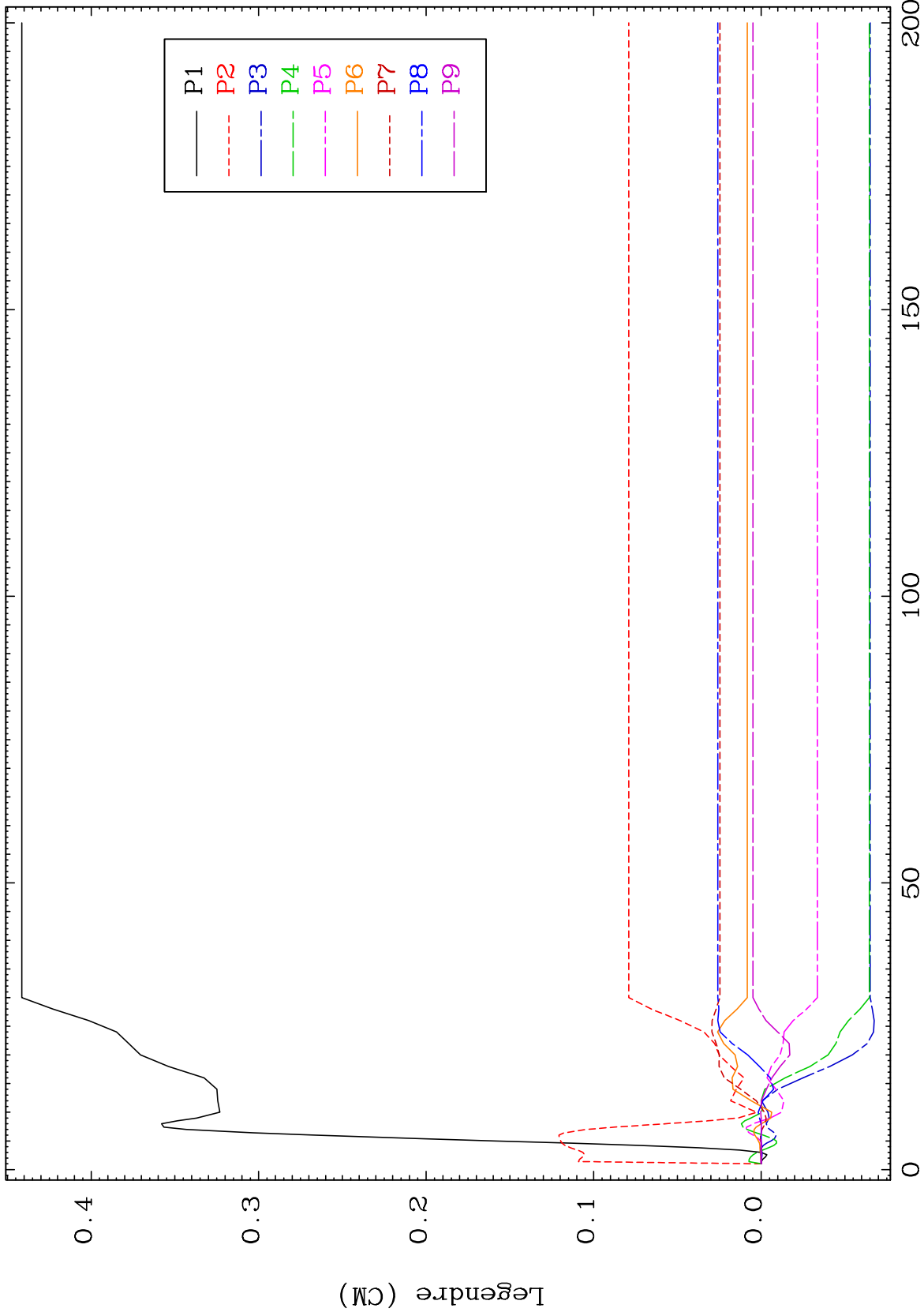
Incident Energy (MeV)

81-Tl-211

MAT 8149

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

81-Tl-211



103

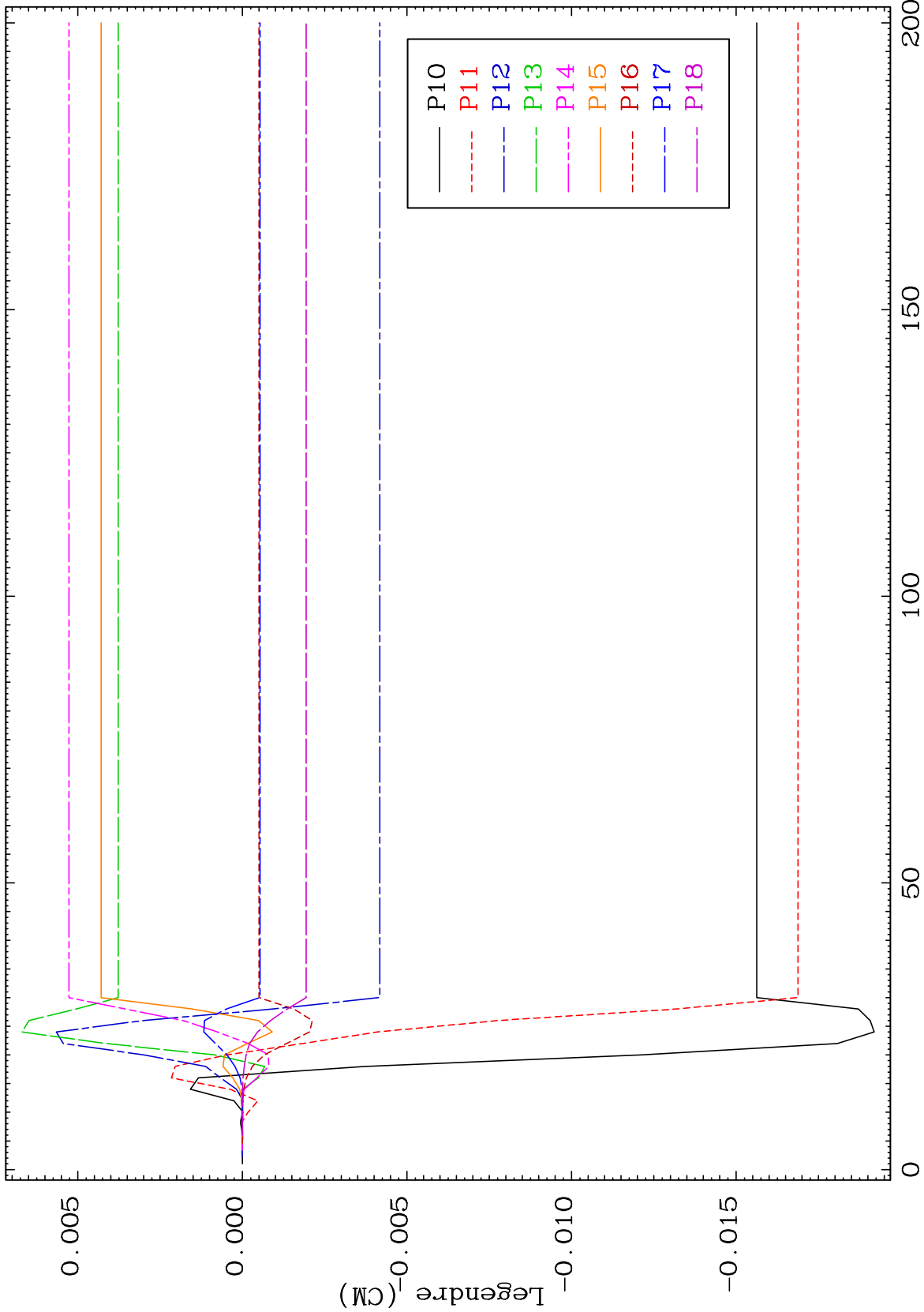
Incident Energy (MeV)

81-Tl-211

MAT 8149

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

81-Tl-211



104

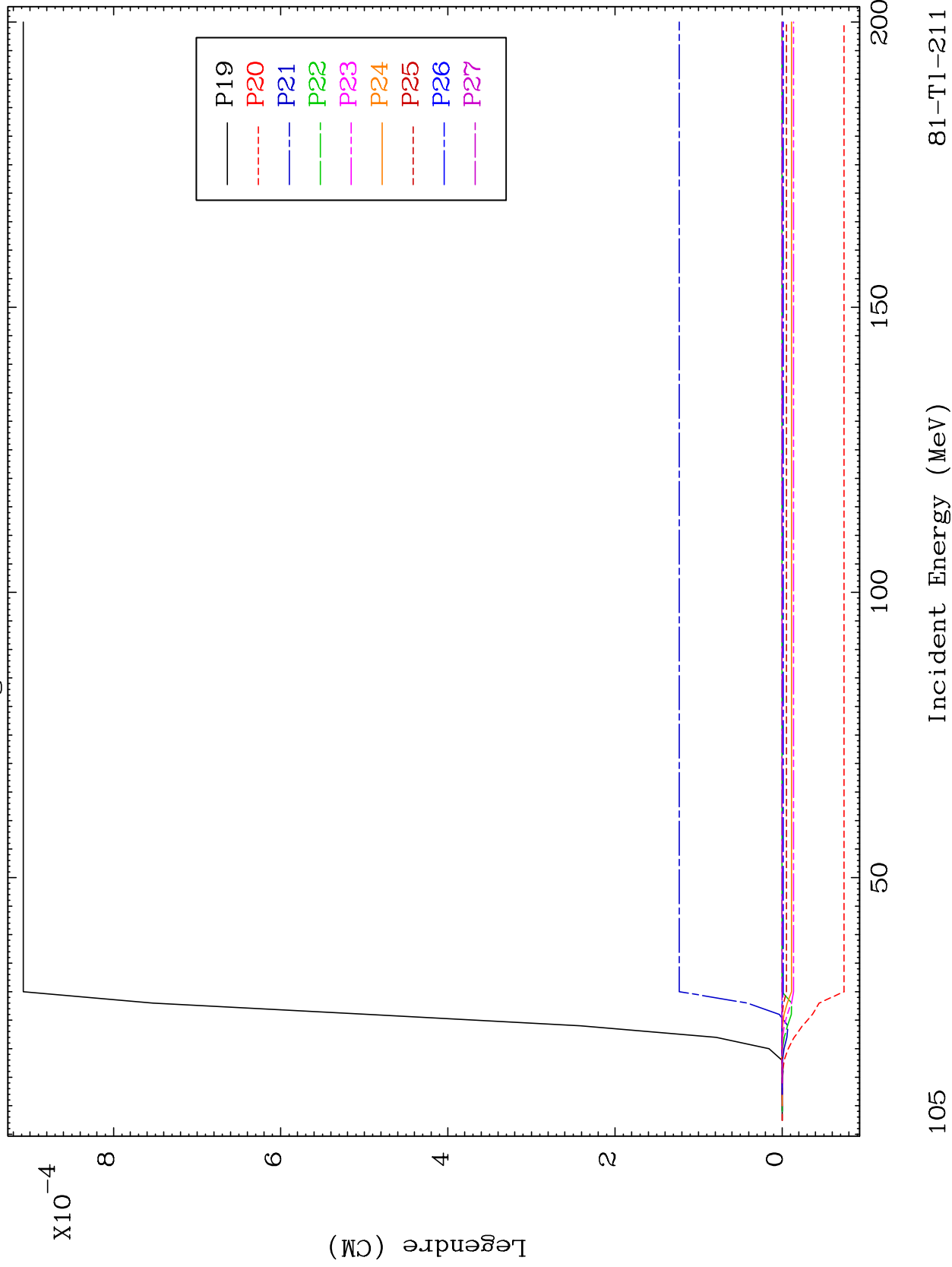
Incident Energy (MeV)

81-Tl-211

MAT 8149

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

81-Tl-211



105

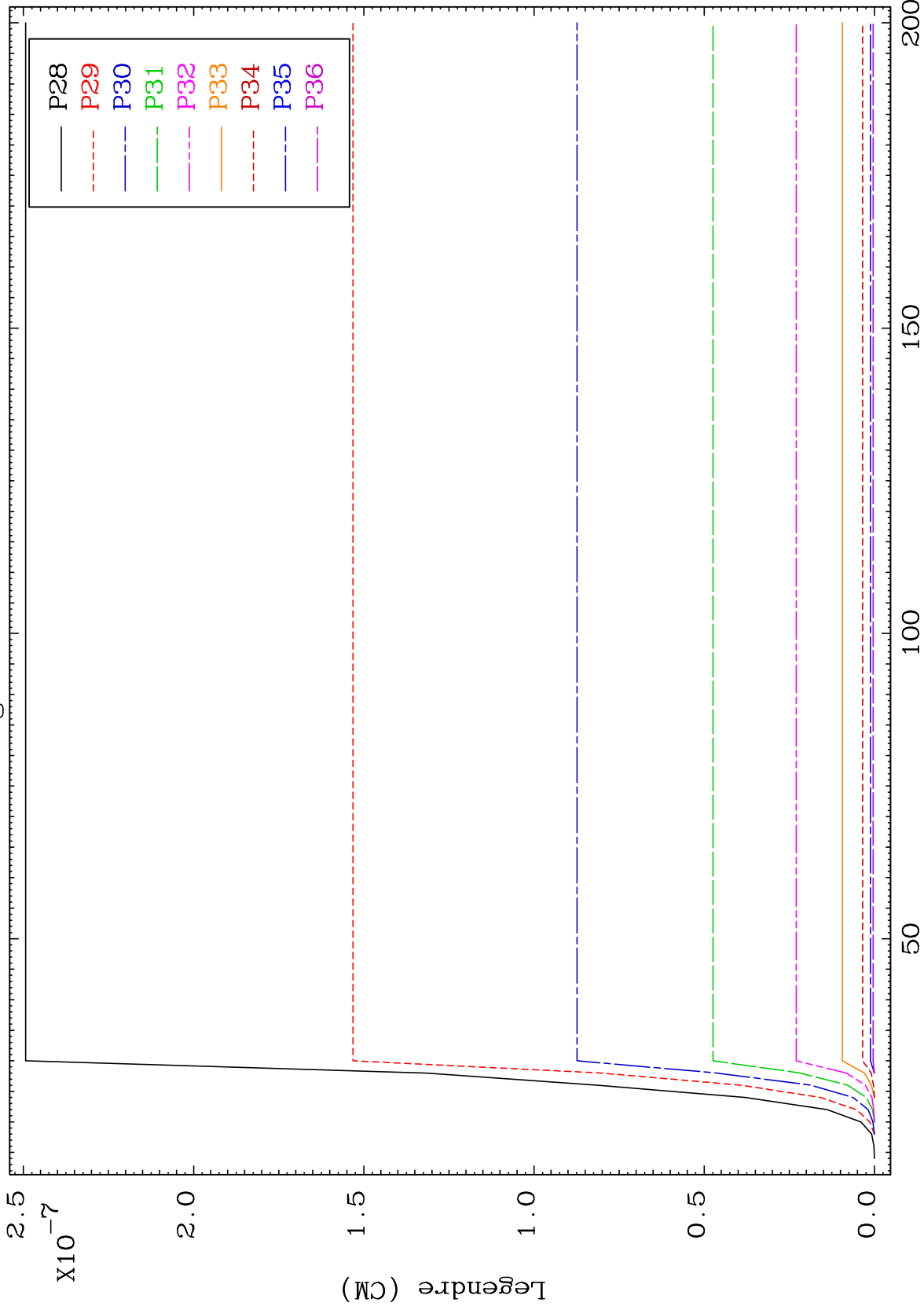
Incident Energy (MeV)

81-Tl-211

MAT 8149

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

81-Tl-211



106

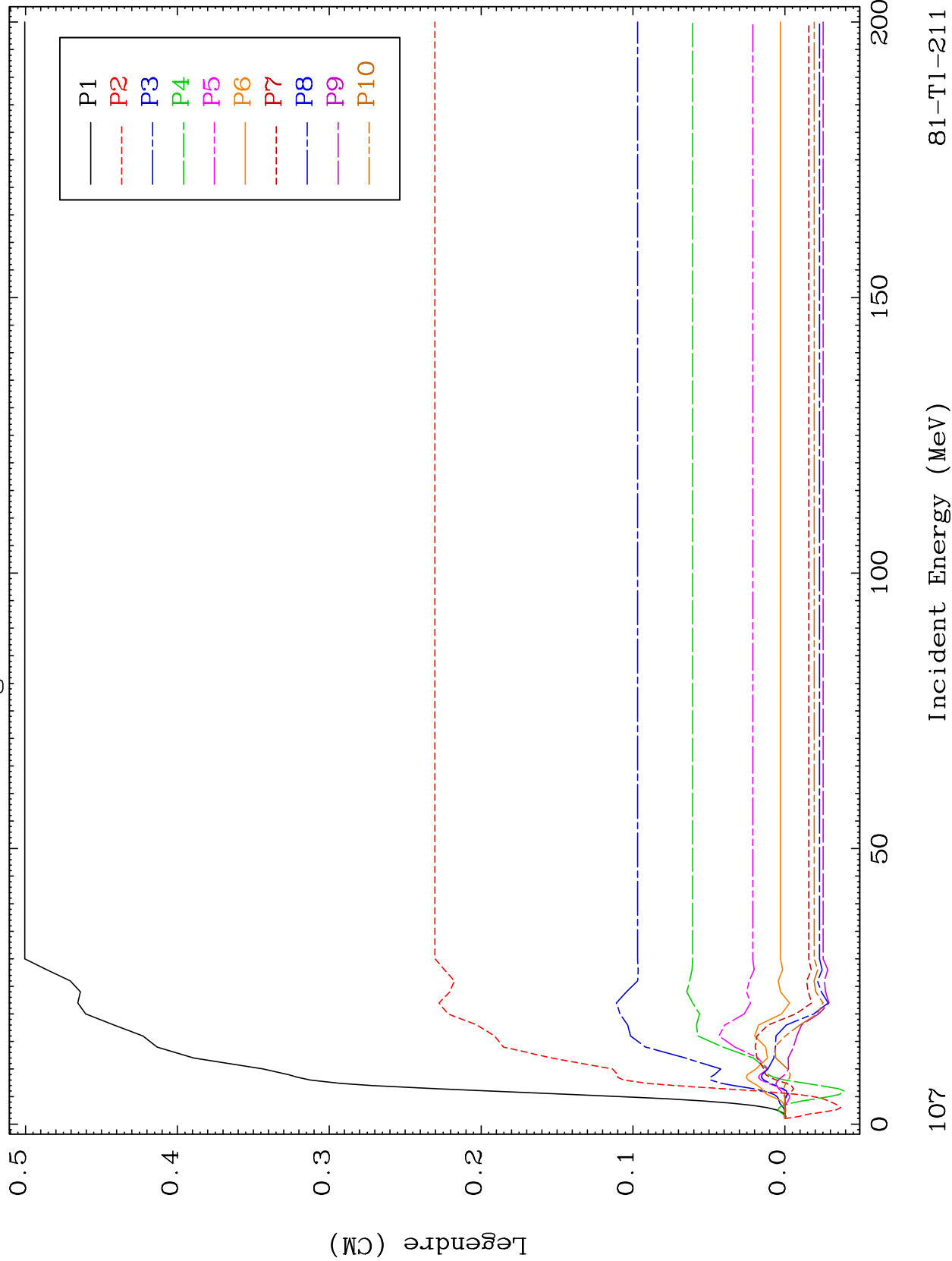
Incident Energy (MeV)

81-Tl-211

MAT 8149

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

81-Tl-211



81-Tl-211

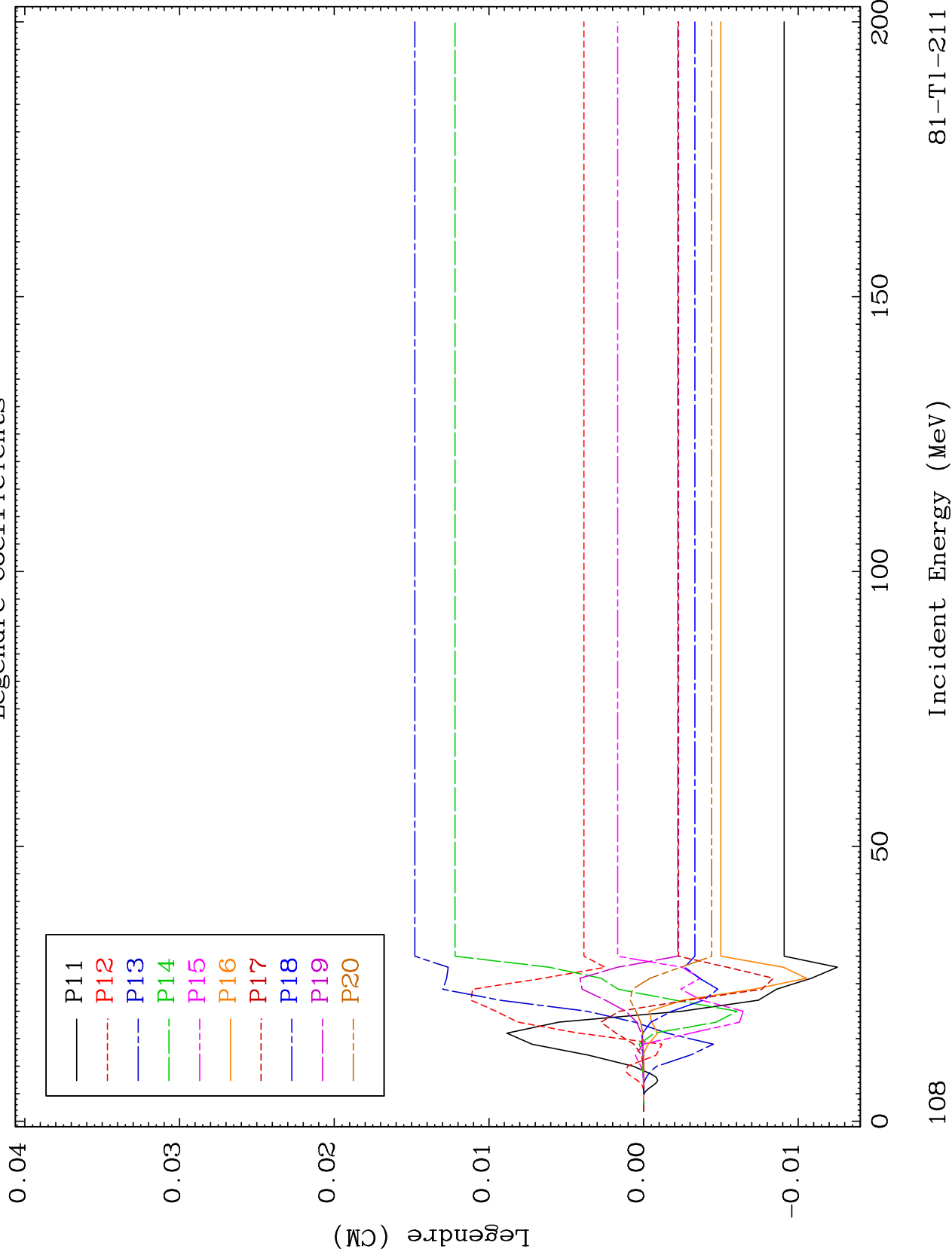
Incident Energy (MeV)

107

MAT 8149

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

81-Tl-211



108

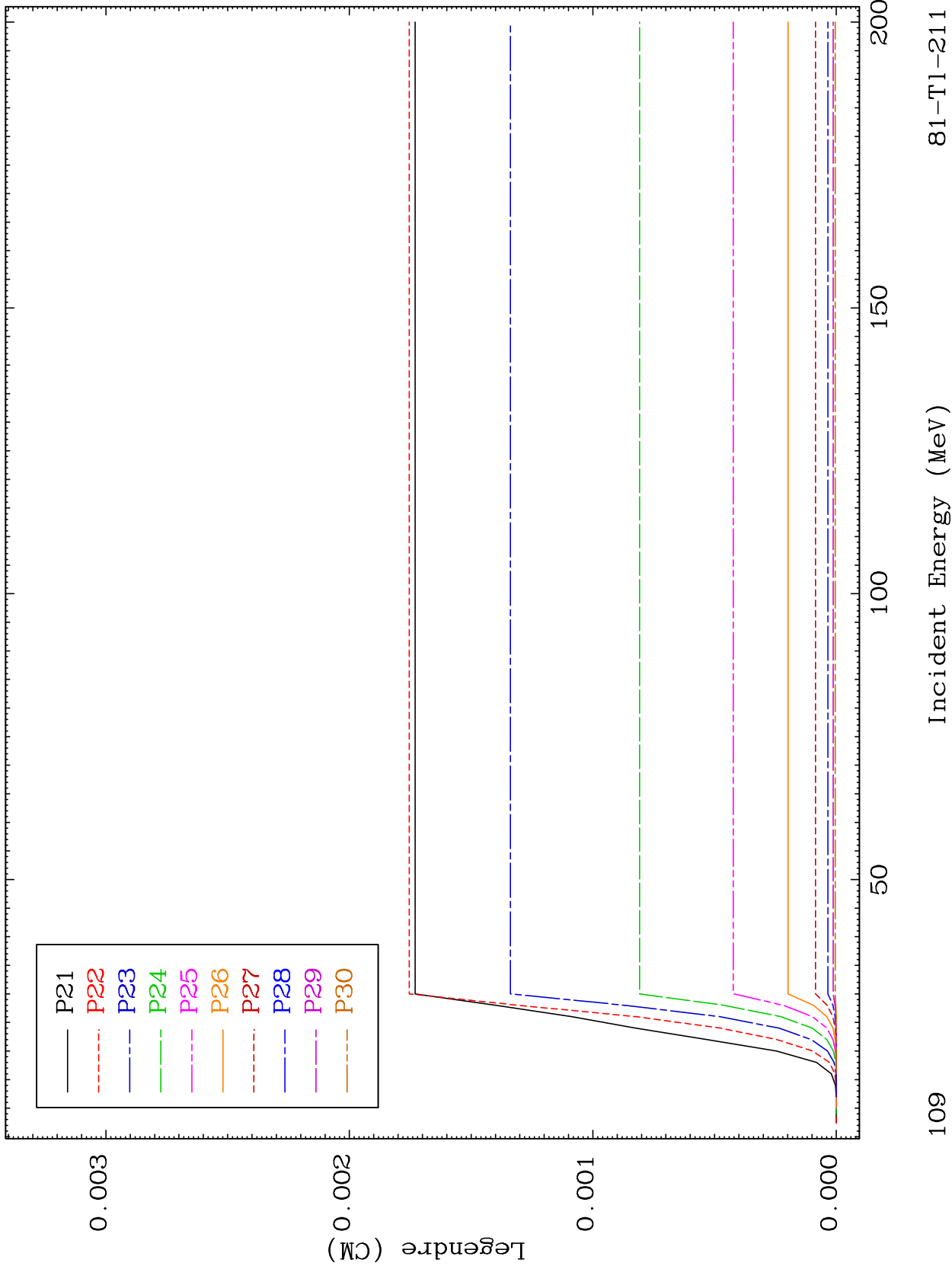
Incident Energy (MeV)

81-Tl-211

MAT 8149

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

81-Tl-211



109

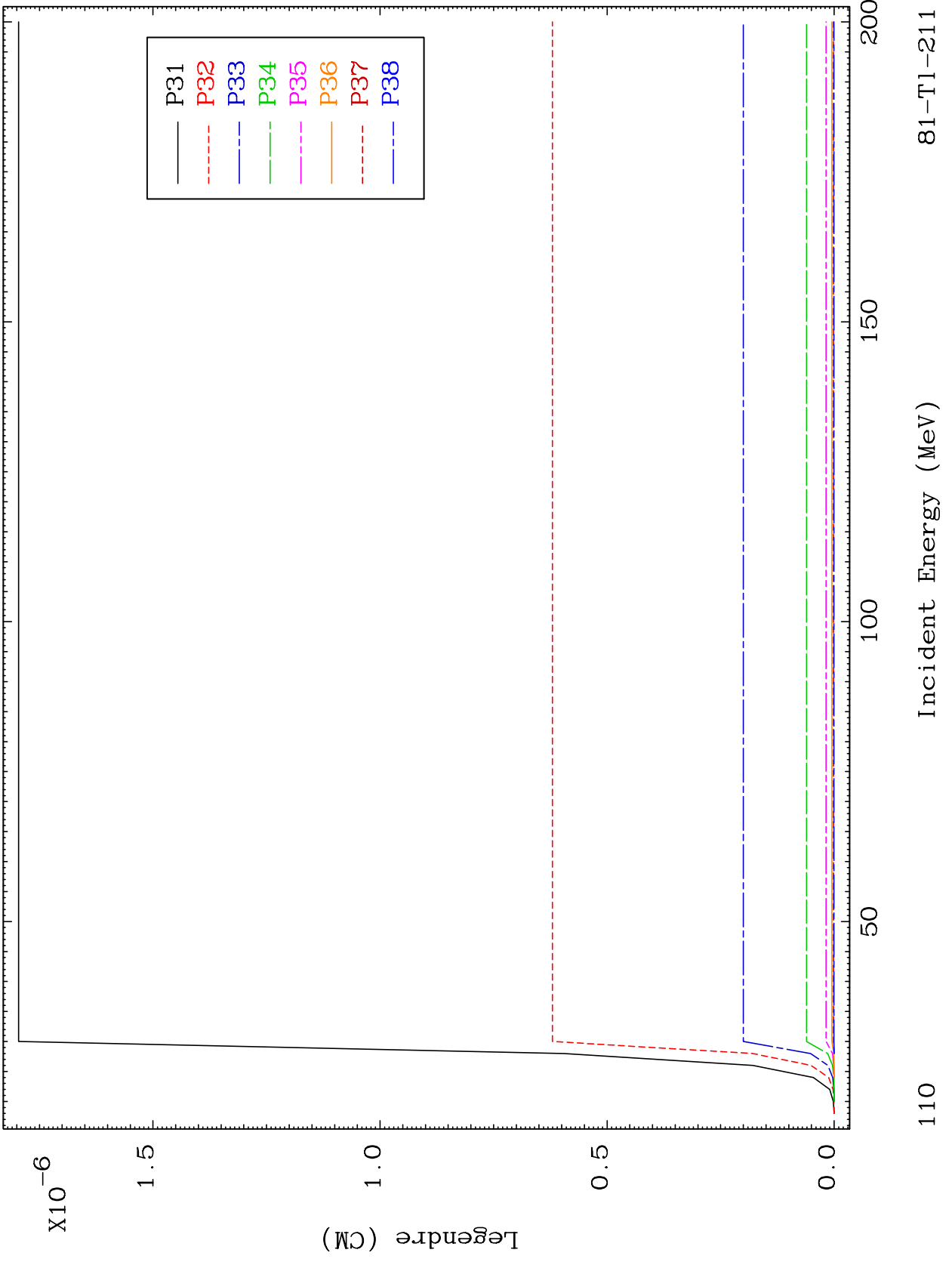
Incident Energy (MeV)

81-Tl-211

MAT 8149

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

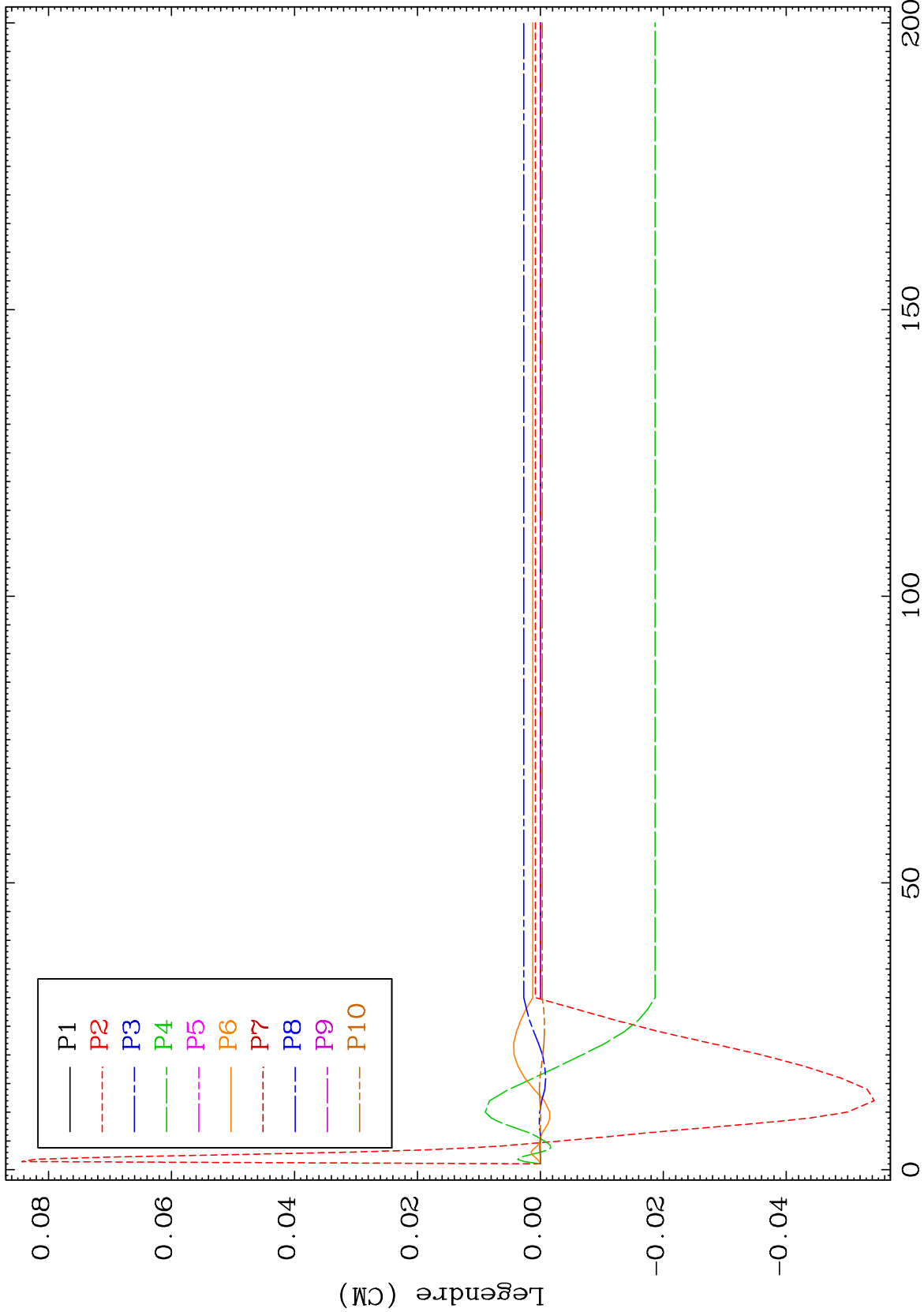
81-T1-211



MAT 8149

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

81-Tl-211



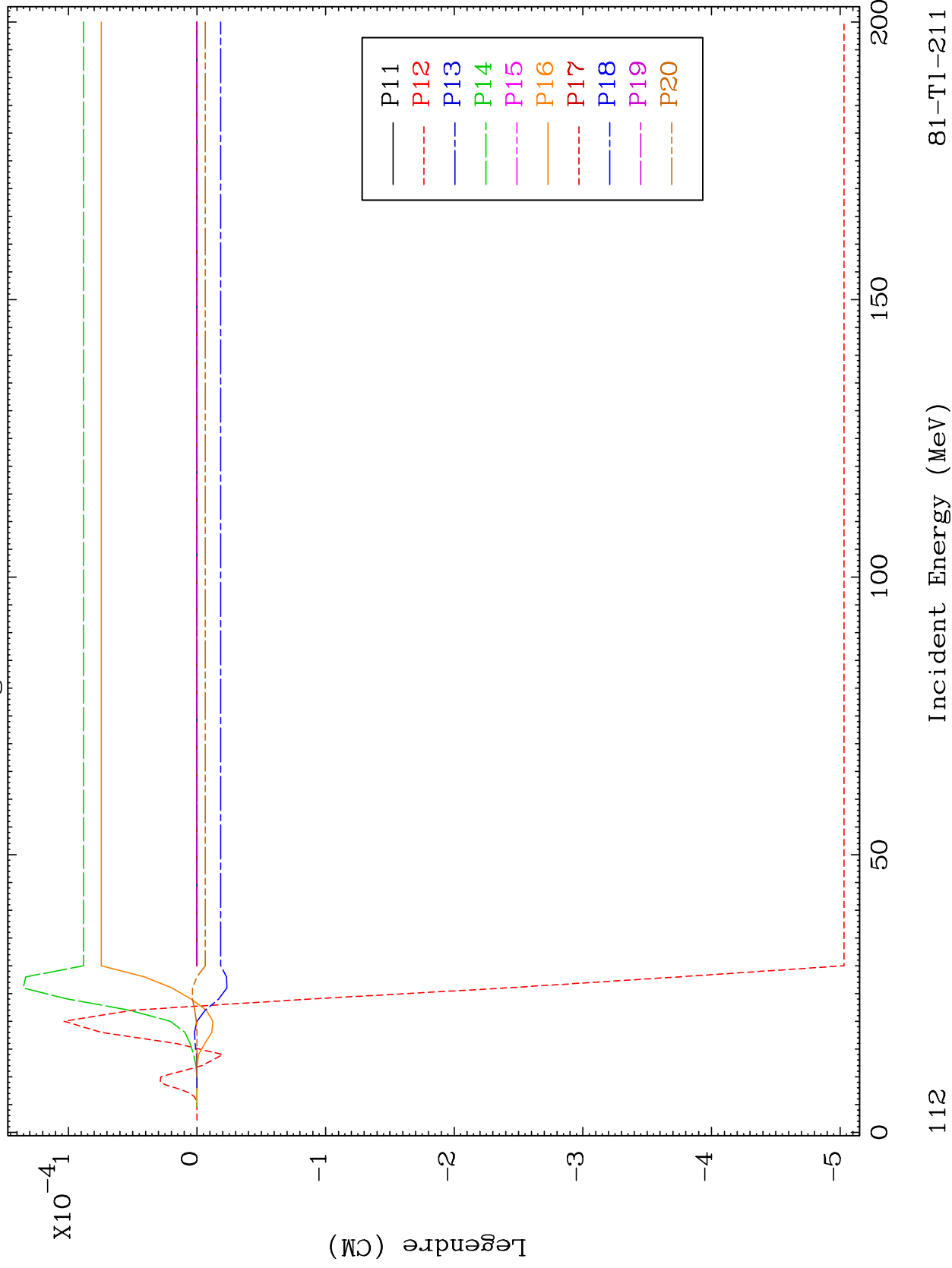
111

81-Tl-211

MAT 8149

81-Tl-211

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



112

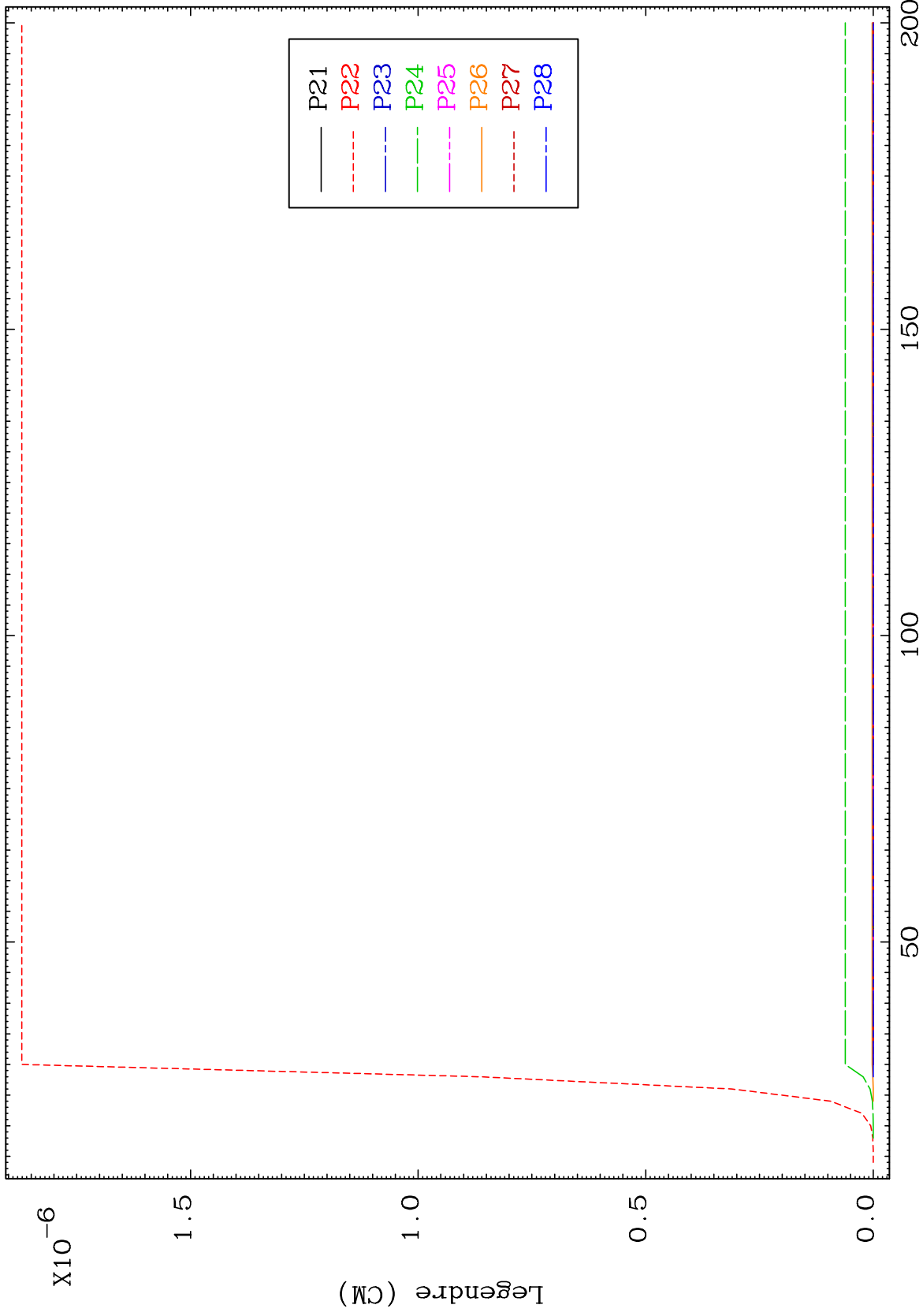
Incident Energy (MeV)

81-Tl-211

MAT 8149

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

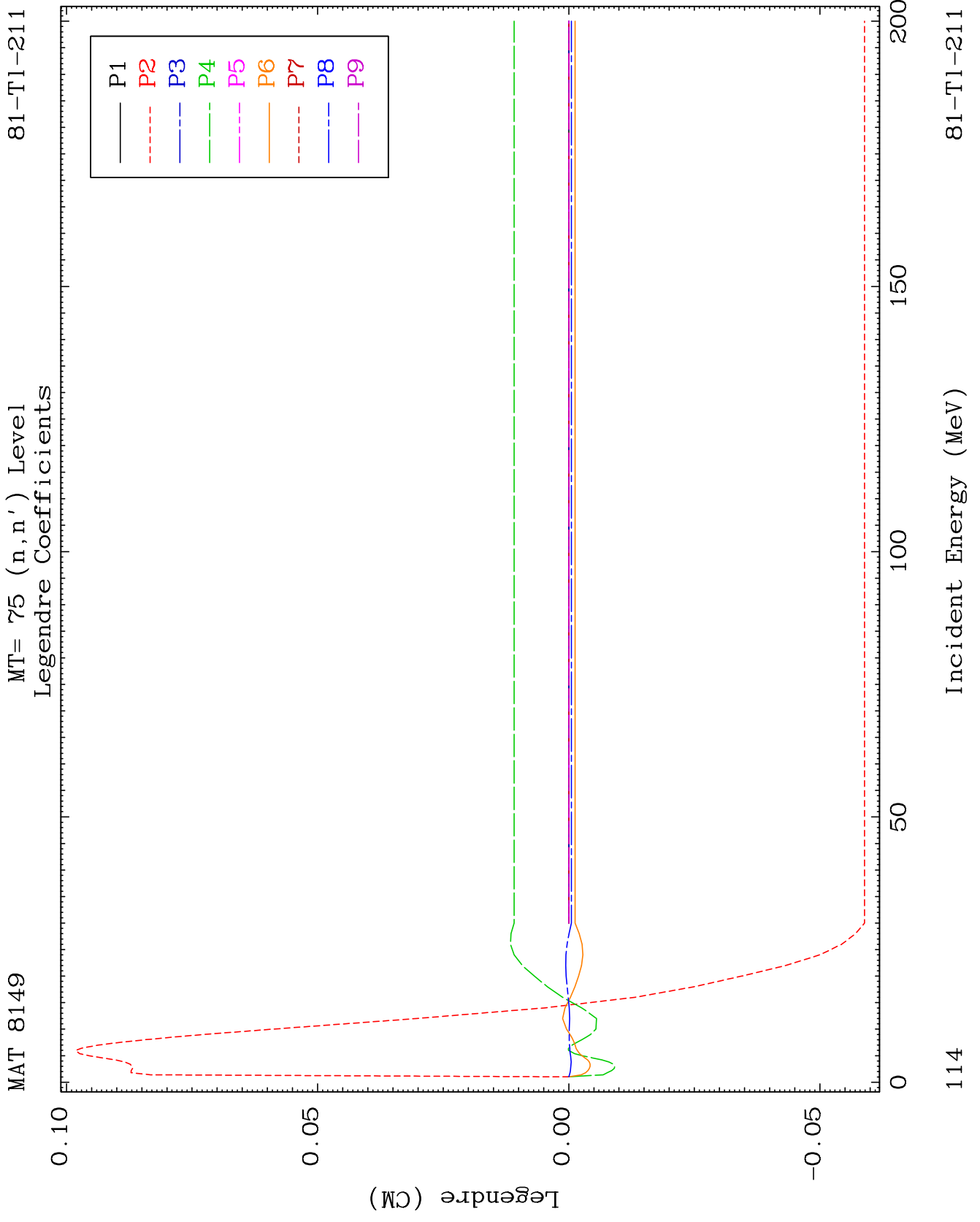
81-Tl-211



113

Incident Energy (MeV)

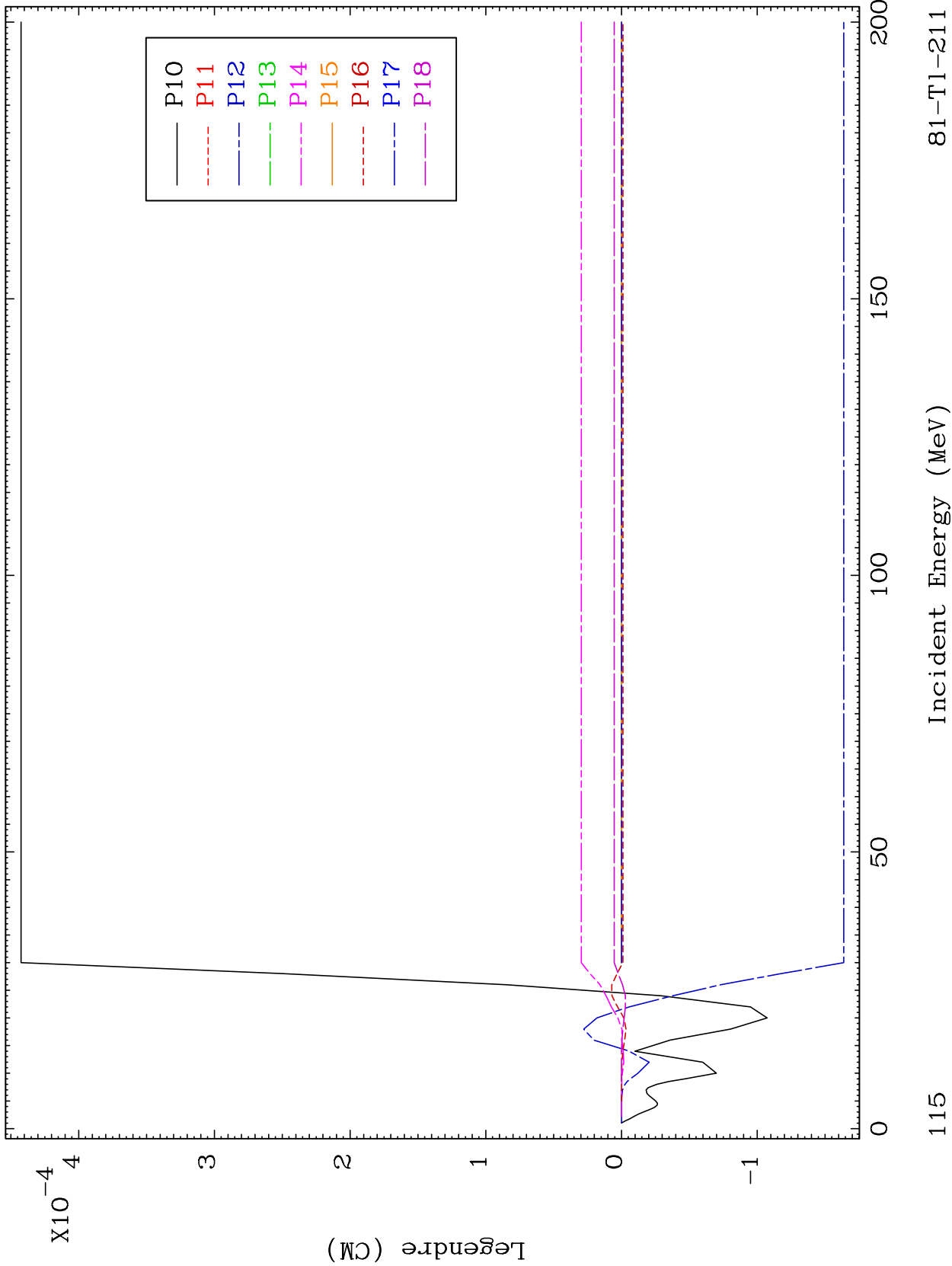
81-Tl-211



MAT 8149

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

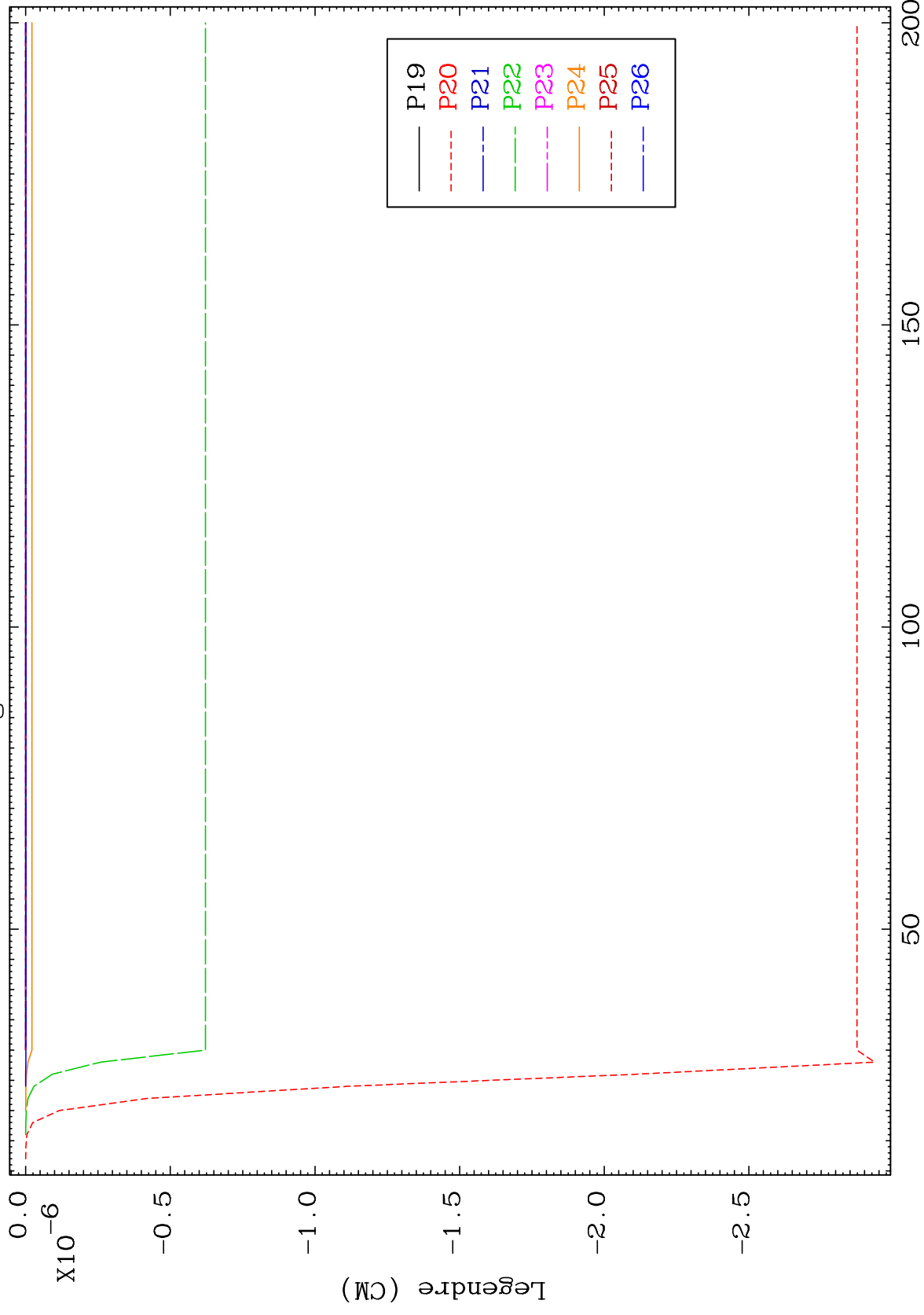
81-Tl-211



MAT 8149

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

81-Tl-211



116

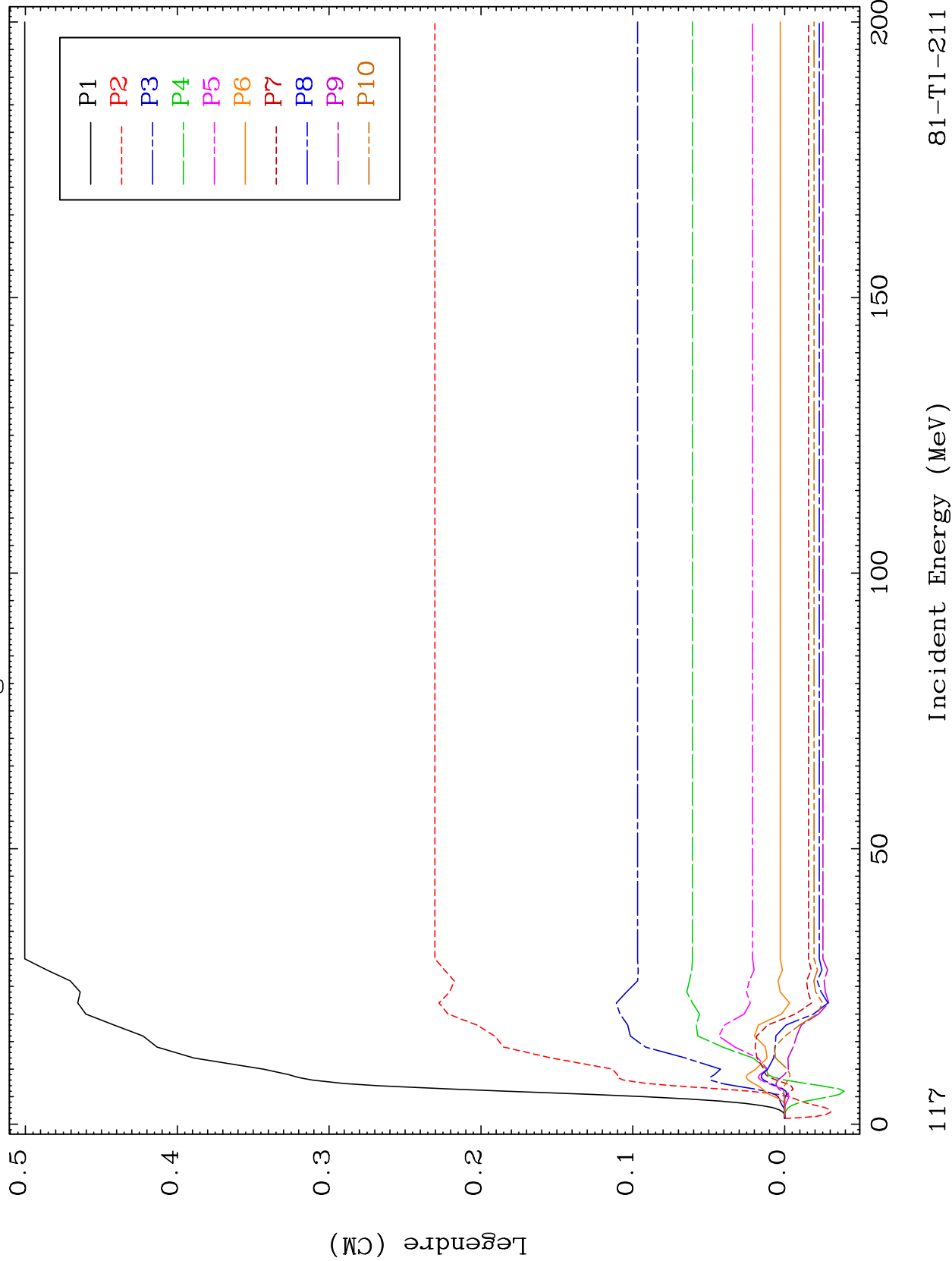
Incident Energy (MeV)

81-Tl-211

MAT 8149

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

81-Tl-211

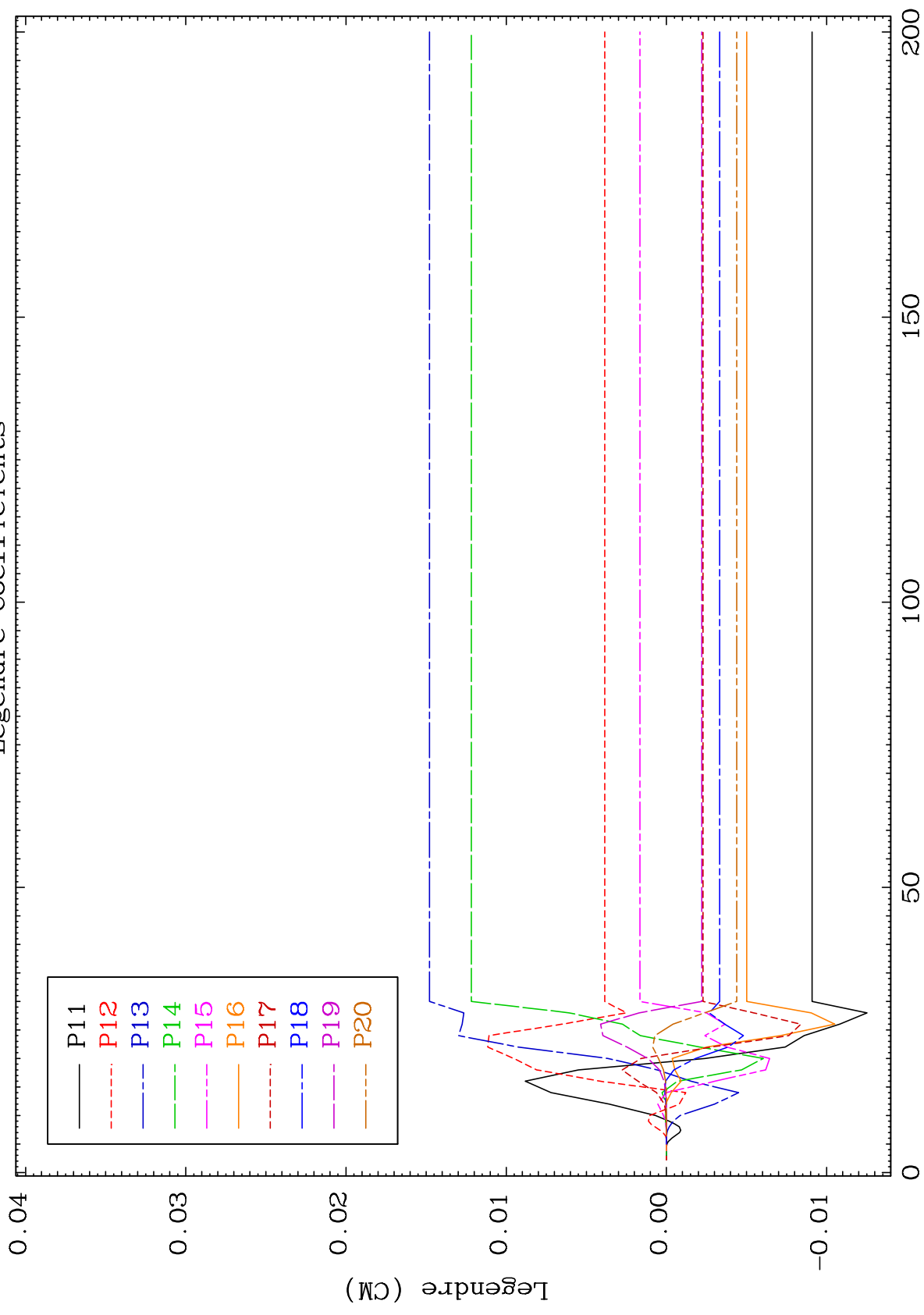


117

MAT 8149

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

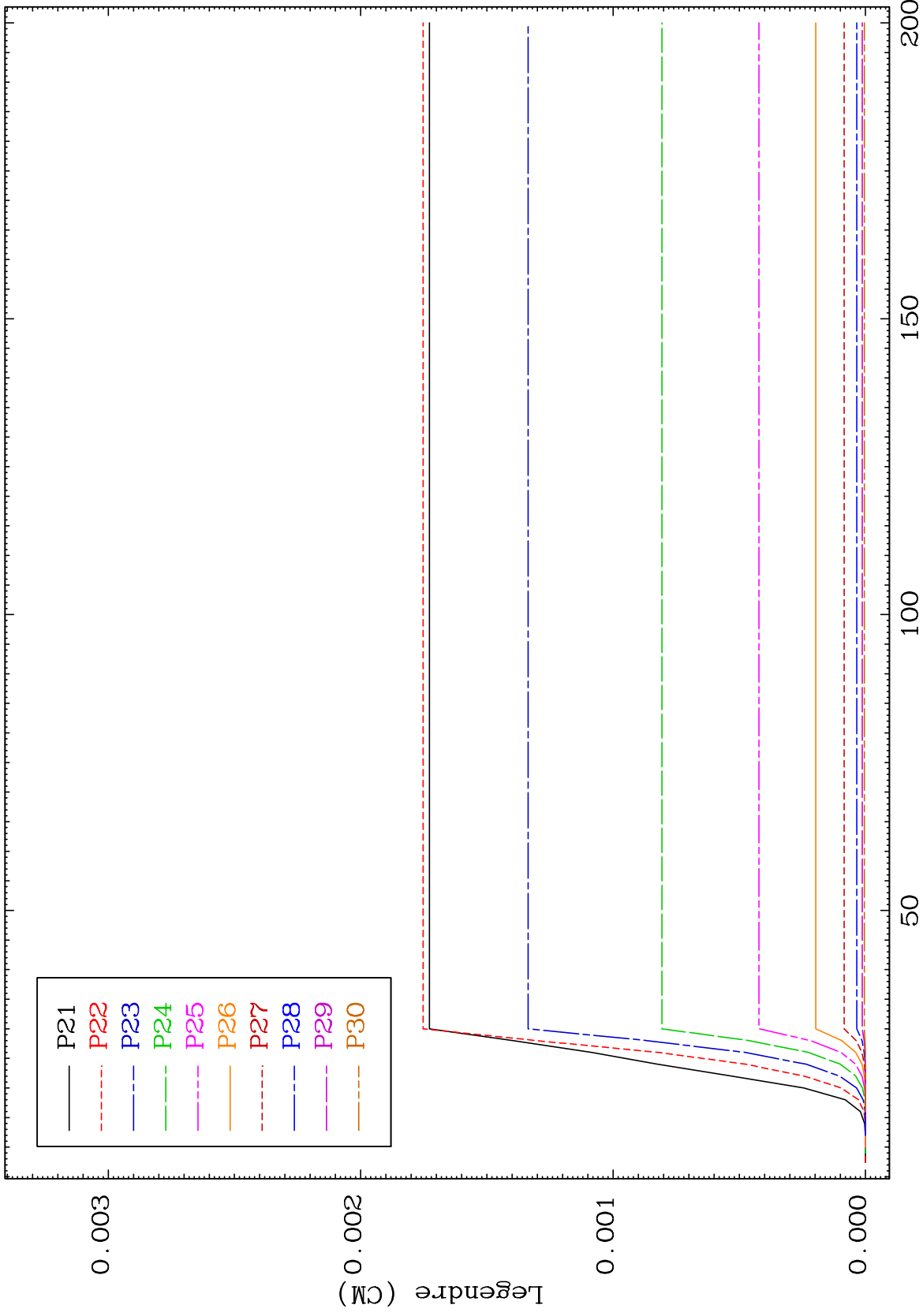
81-Tl-211



118

Incident Energy (MeV)

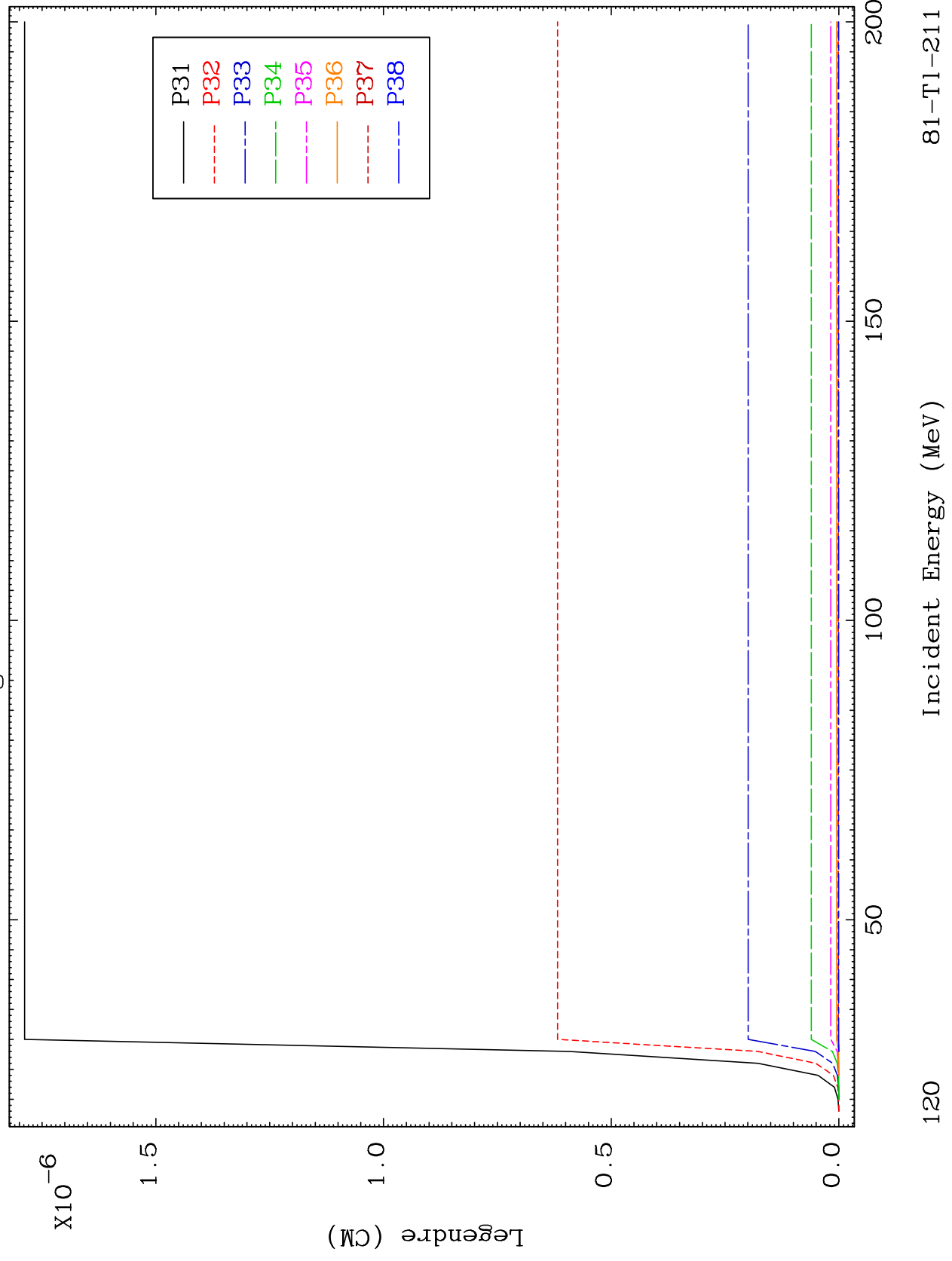
81-Tl-211



MAT 8149

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

81-Tl-211

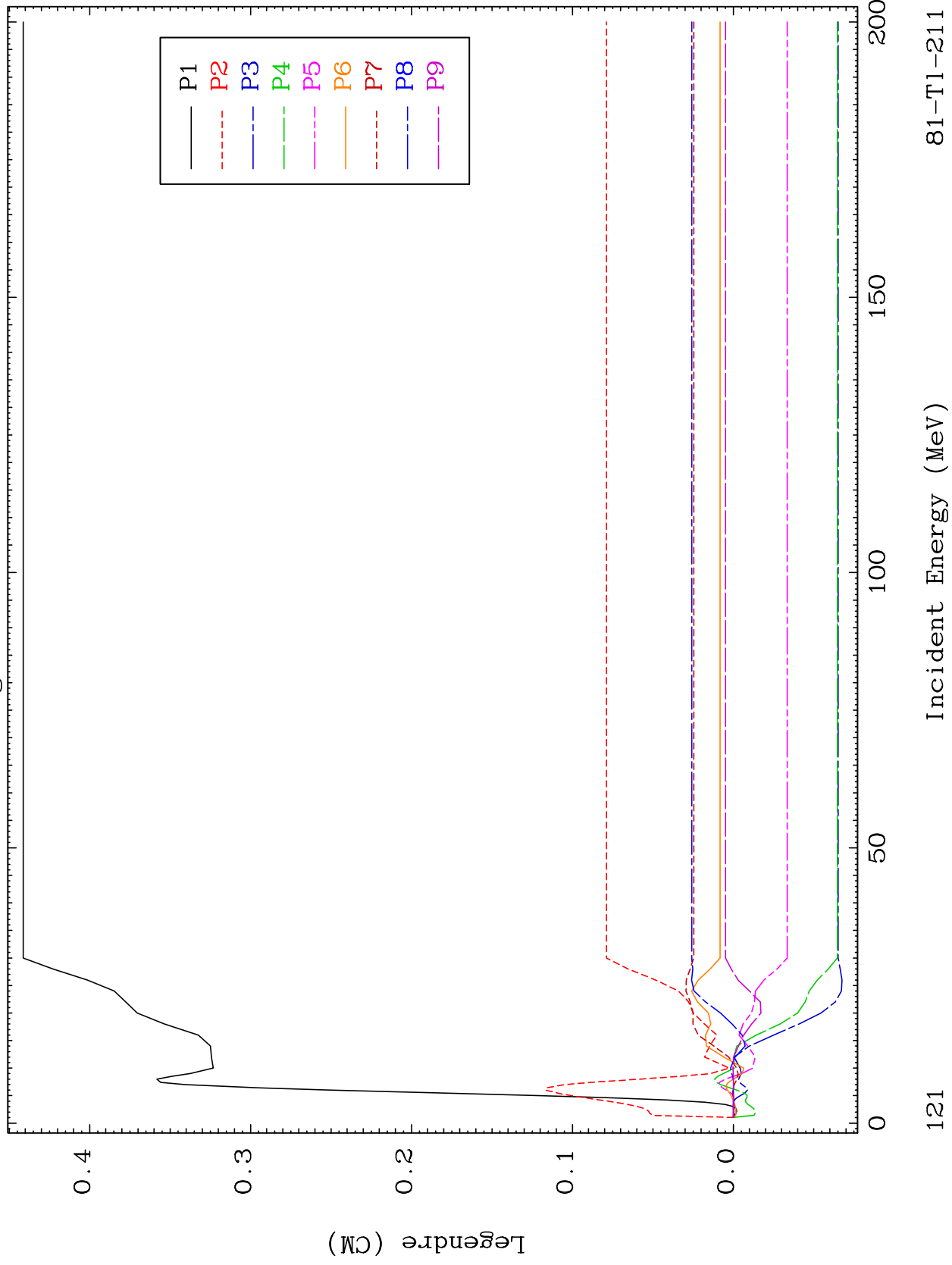


81-Tl-211

MAT 8149

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

81-Tl-211



81-Tl-211

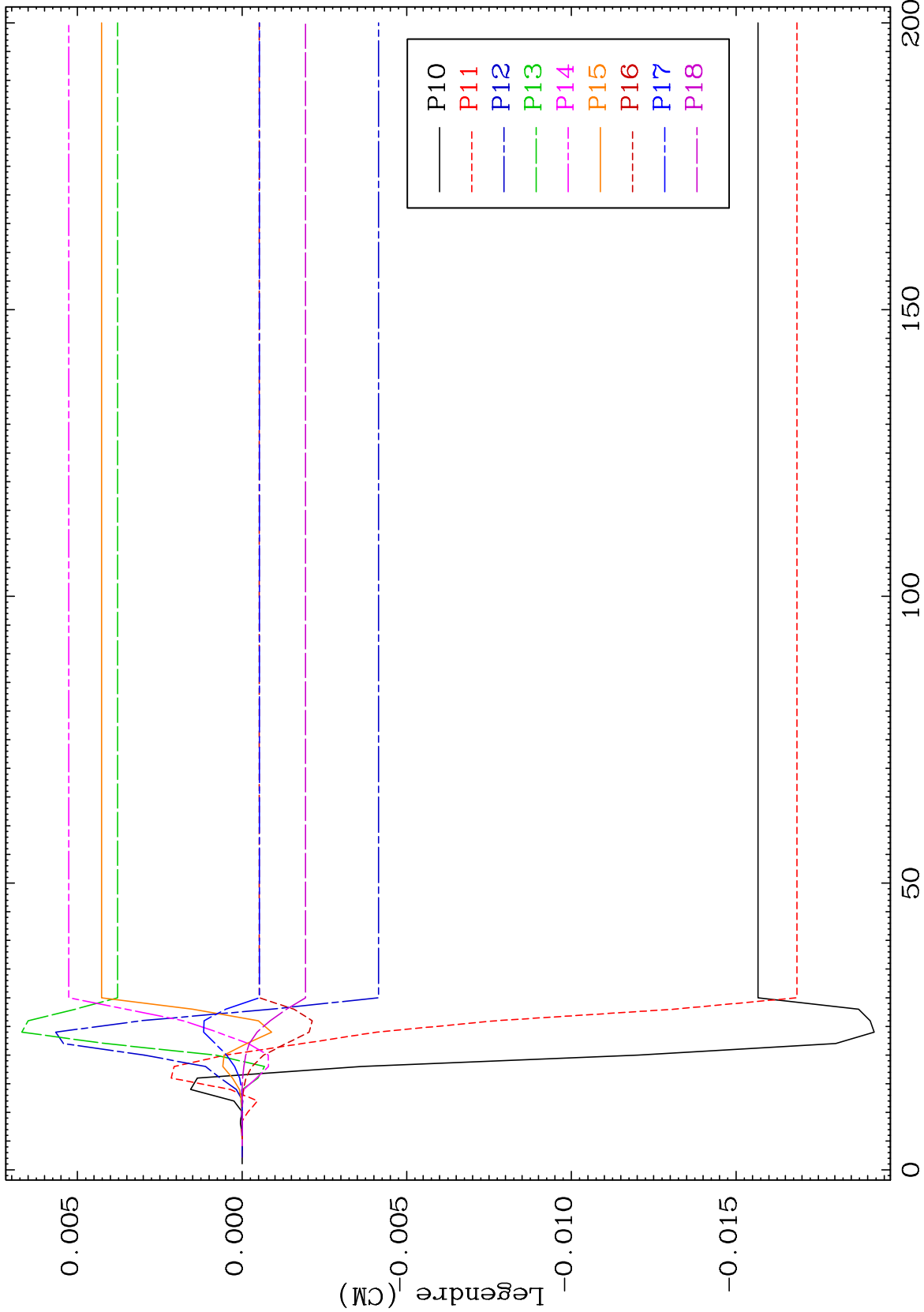
Incident Energy (MeV)

121

MAT 8149

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

81-Tl-211



122

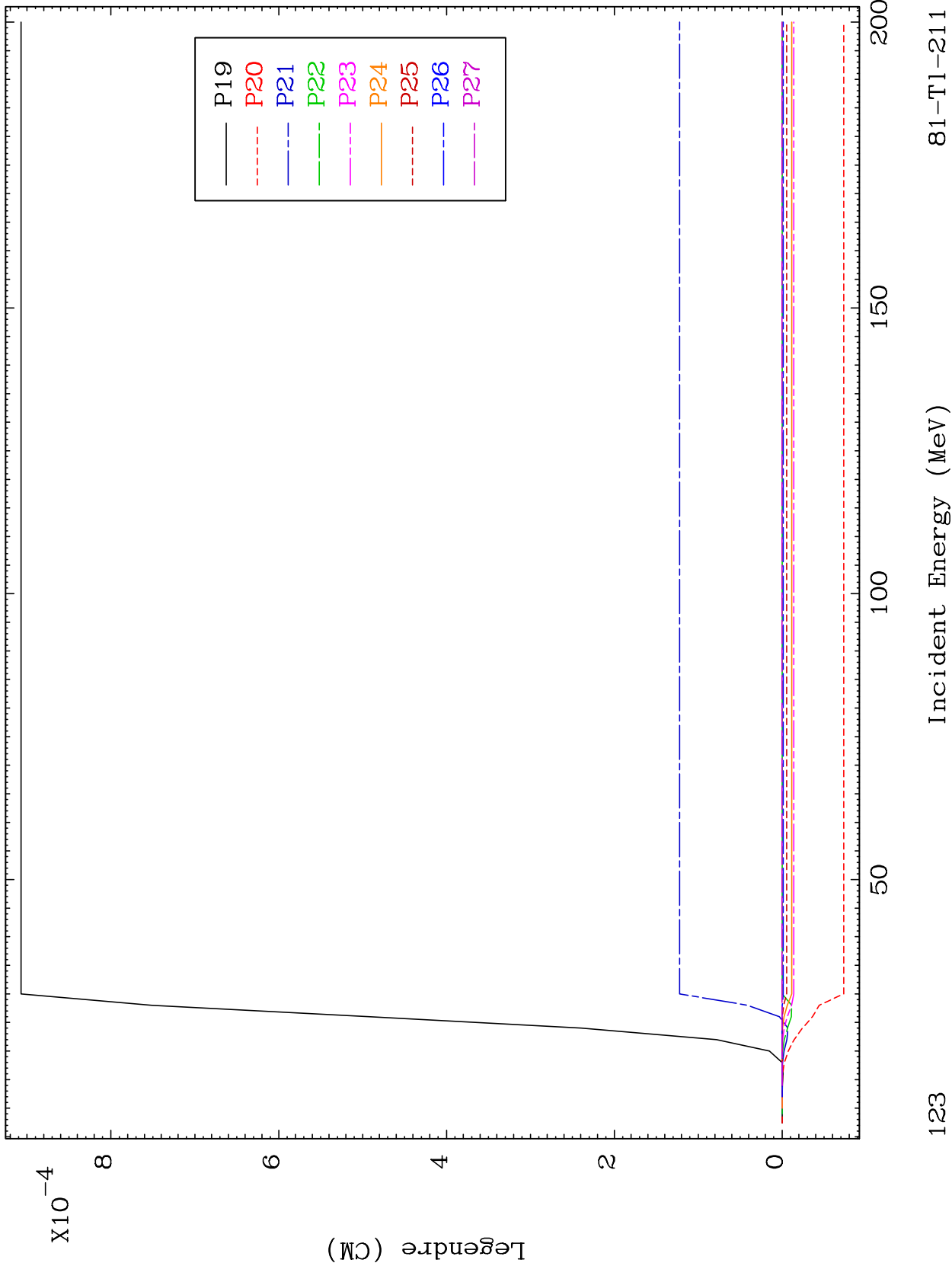
Incident Energy (MeV)

81-Tl-211

MAT 8149

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

81-Tl-211



123

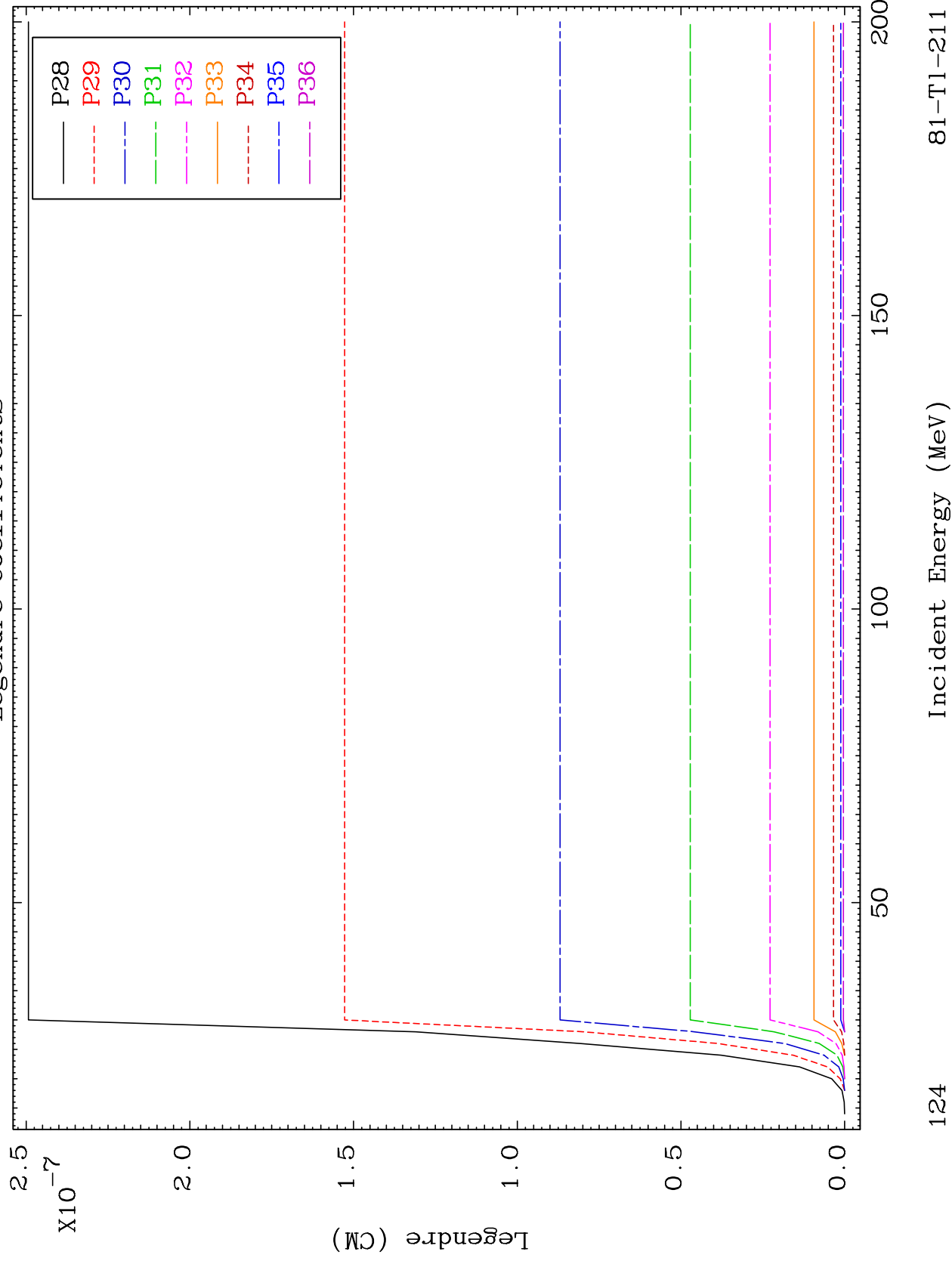
Incident Energy (MeV)

81-Tl-211

MAT 8149

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

81-Tl-211

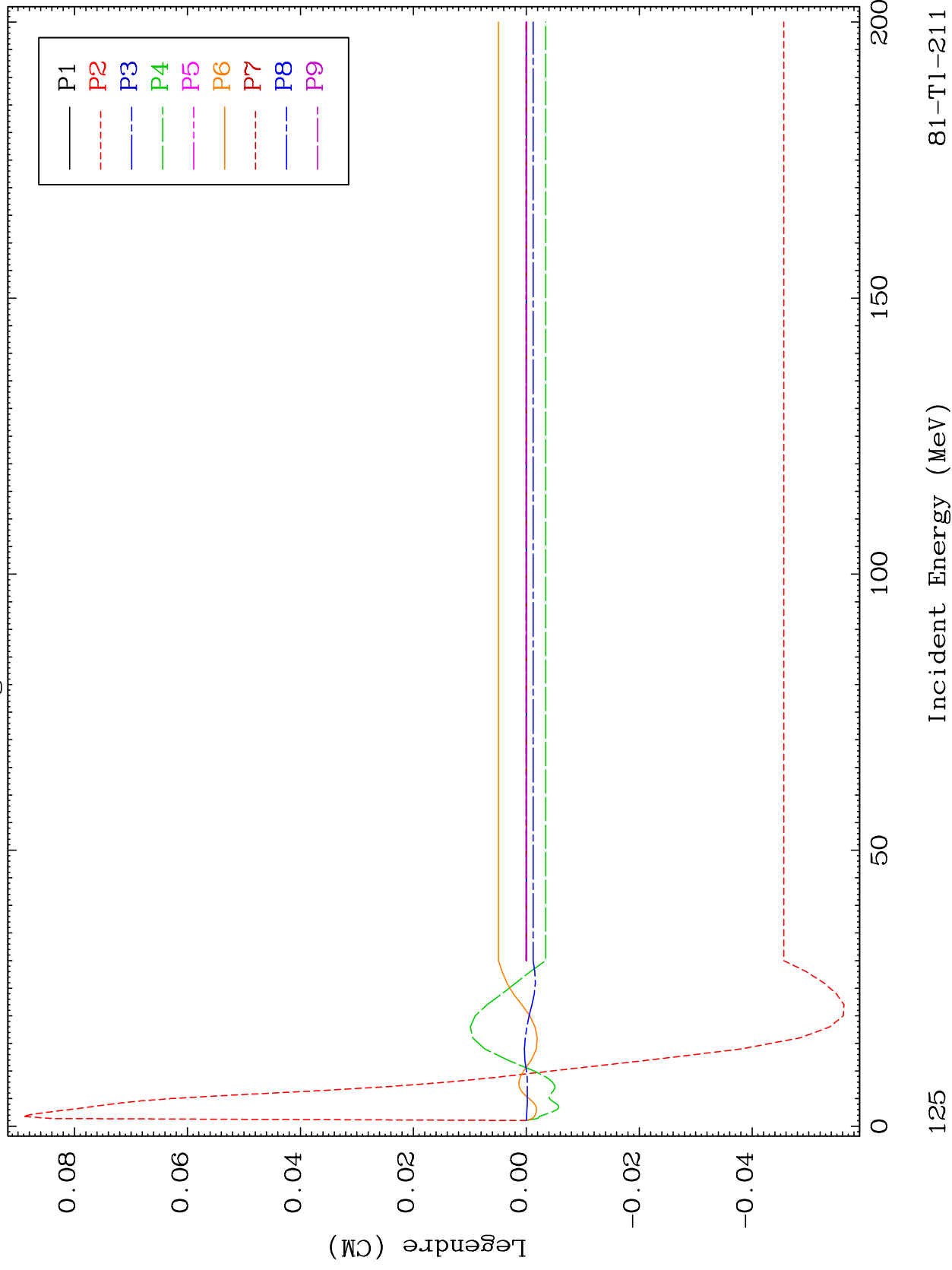


124

MAT 8149

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

81-Tl-211



81-Tl-211

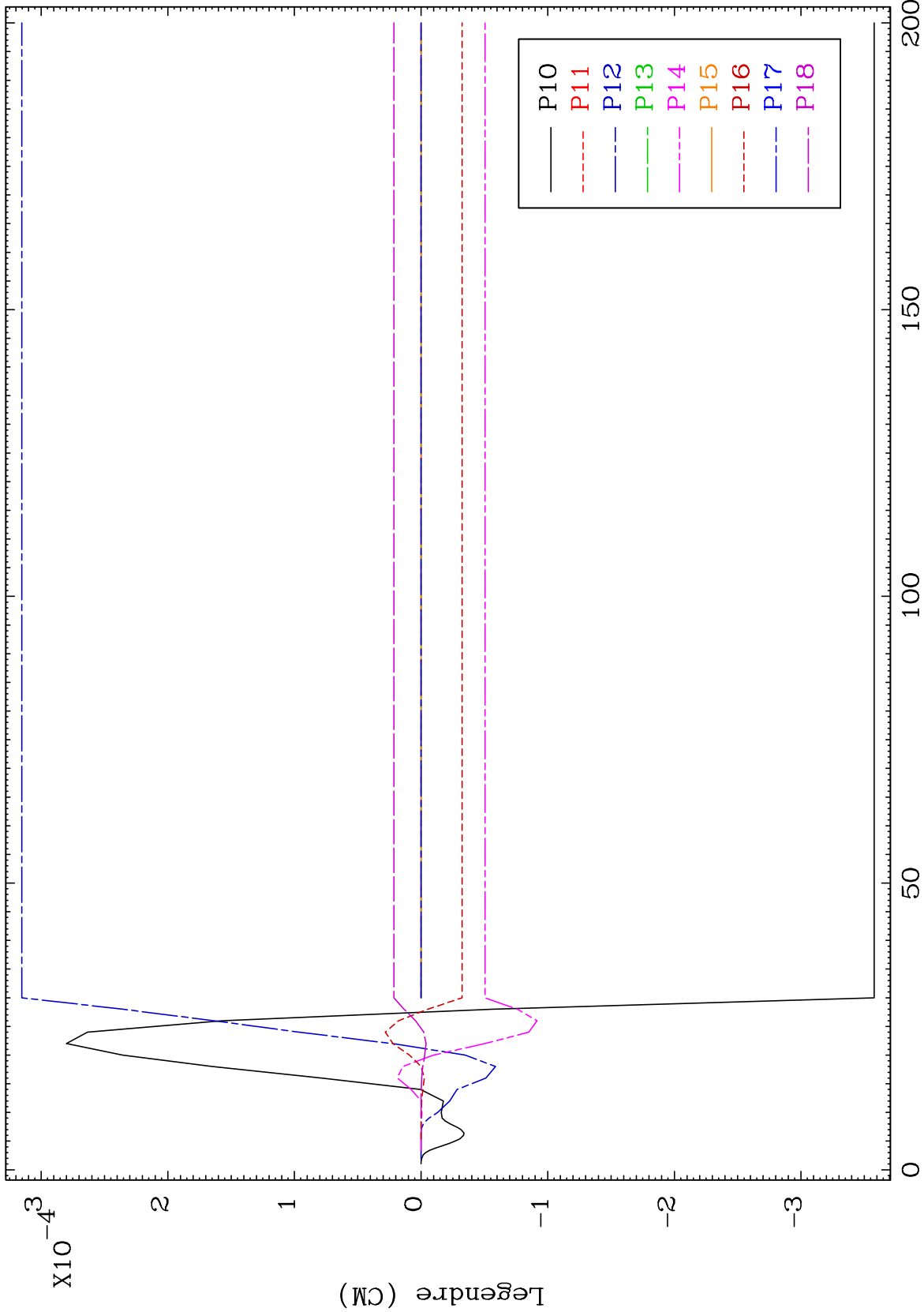
Incident Energy (MeV)

125

MAT 8149

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

81-Tl-211



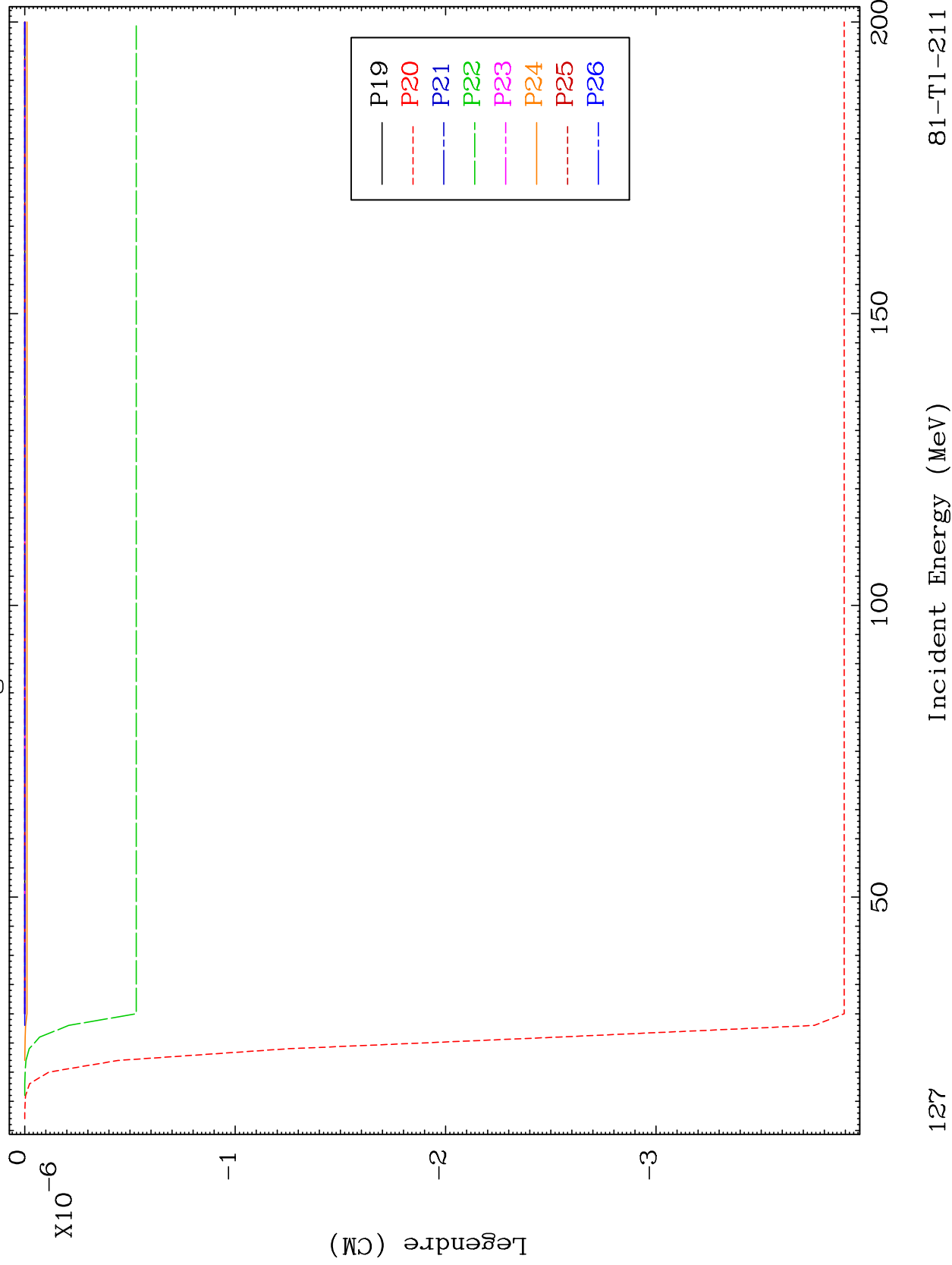
126

81-Tl-211

MAT 8149

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

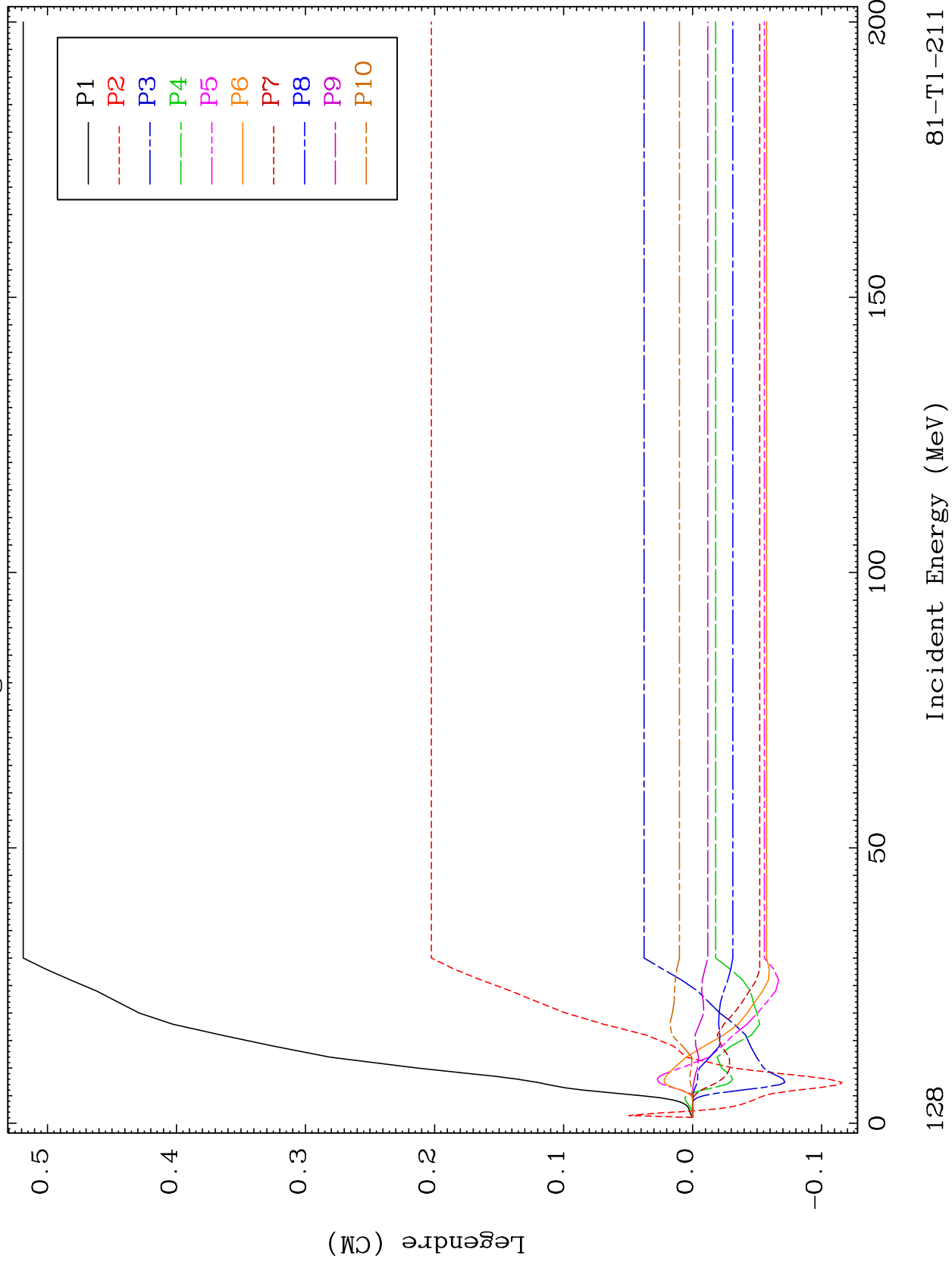
81-Tl-211



MAT 8149

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

81-Tl-211

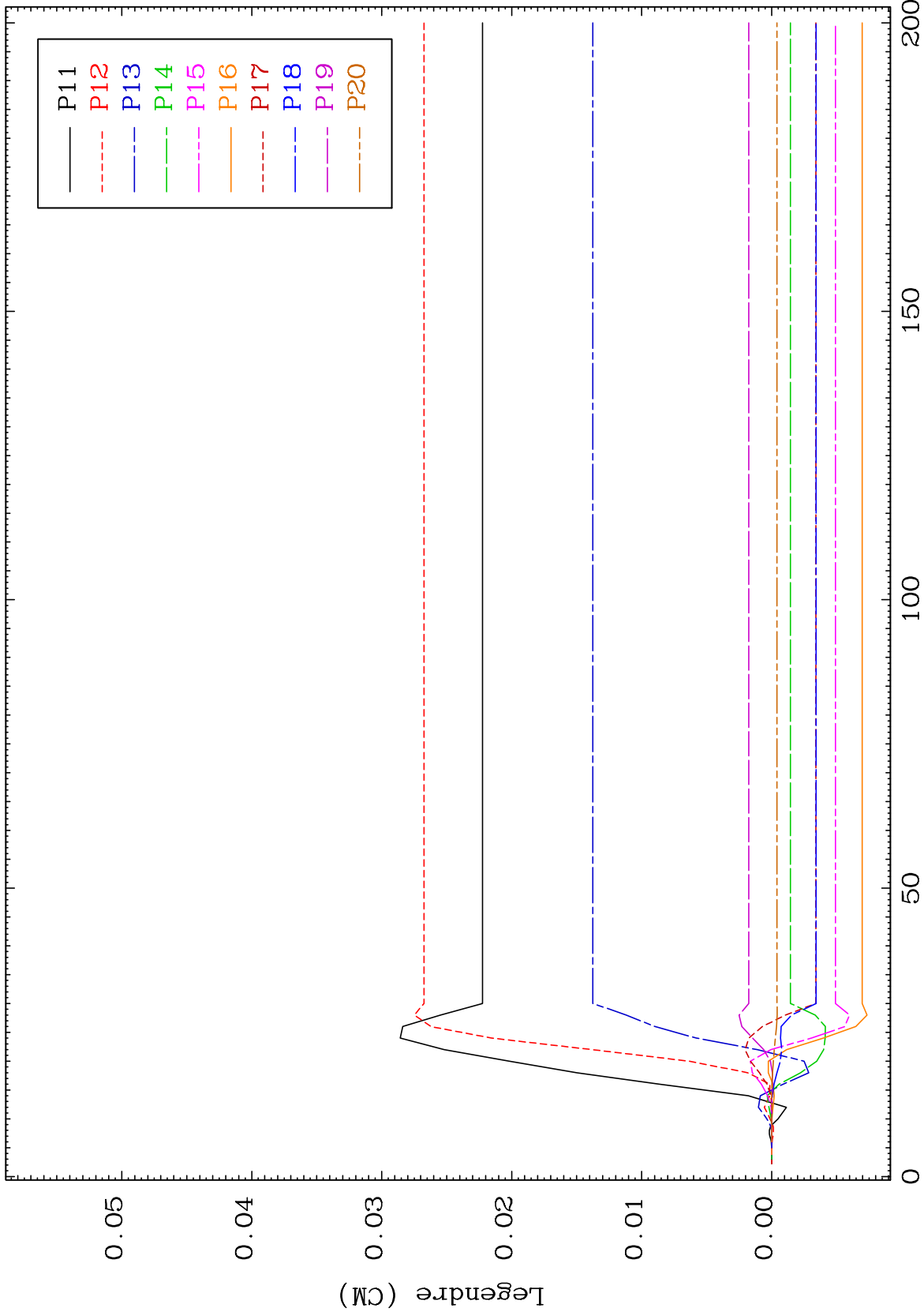


128

MAT 8149

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

81-Tl-211



129

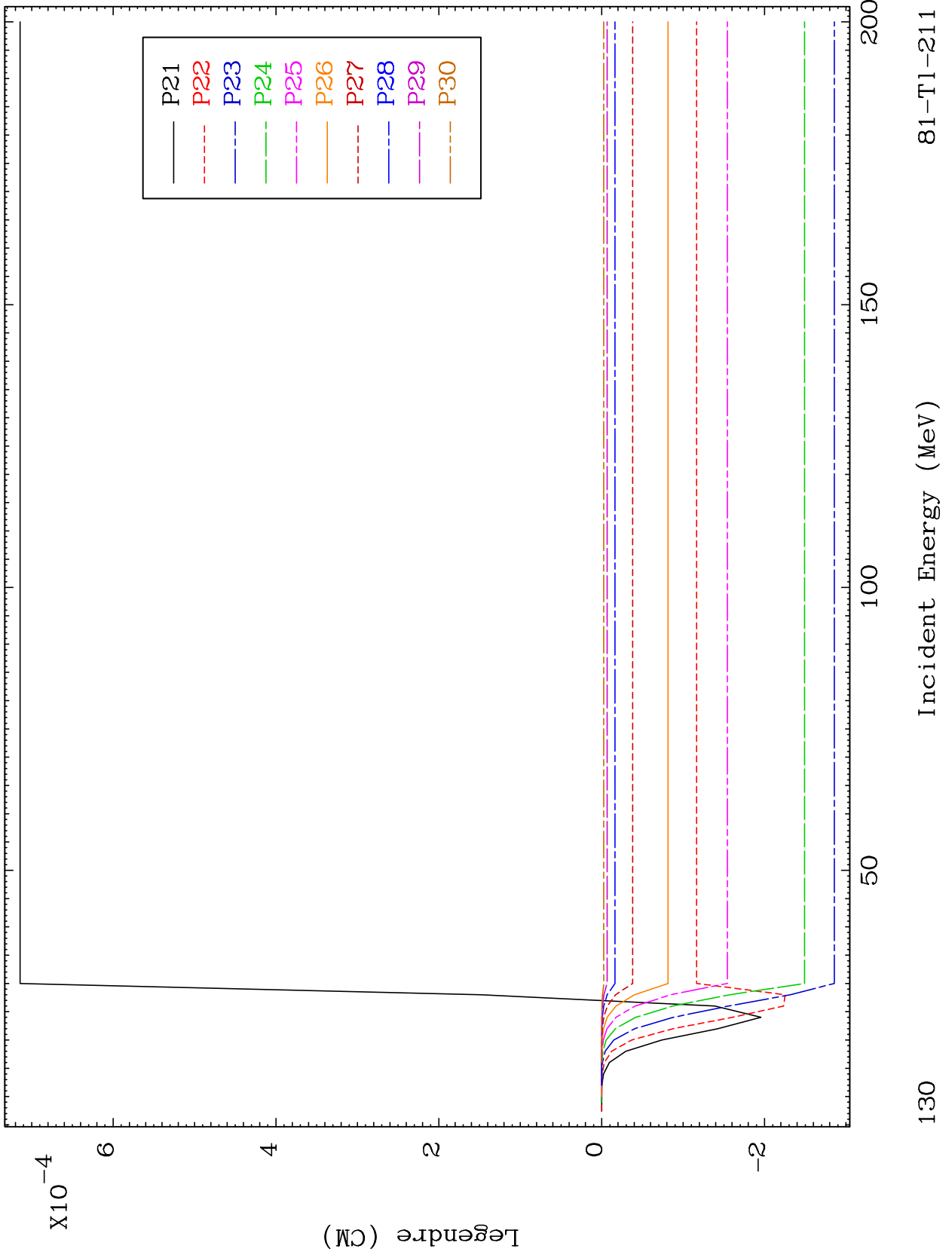
Incident Energy (MeV)

81-Tl-211

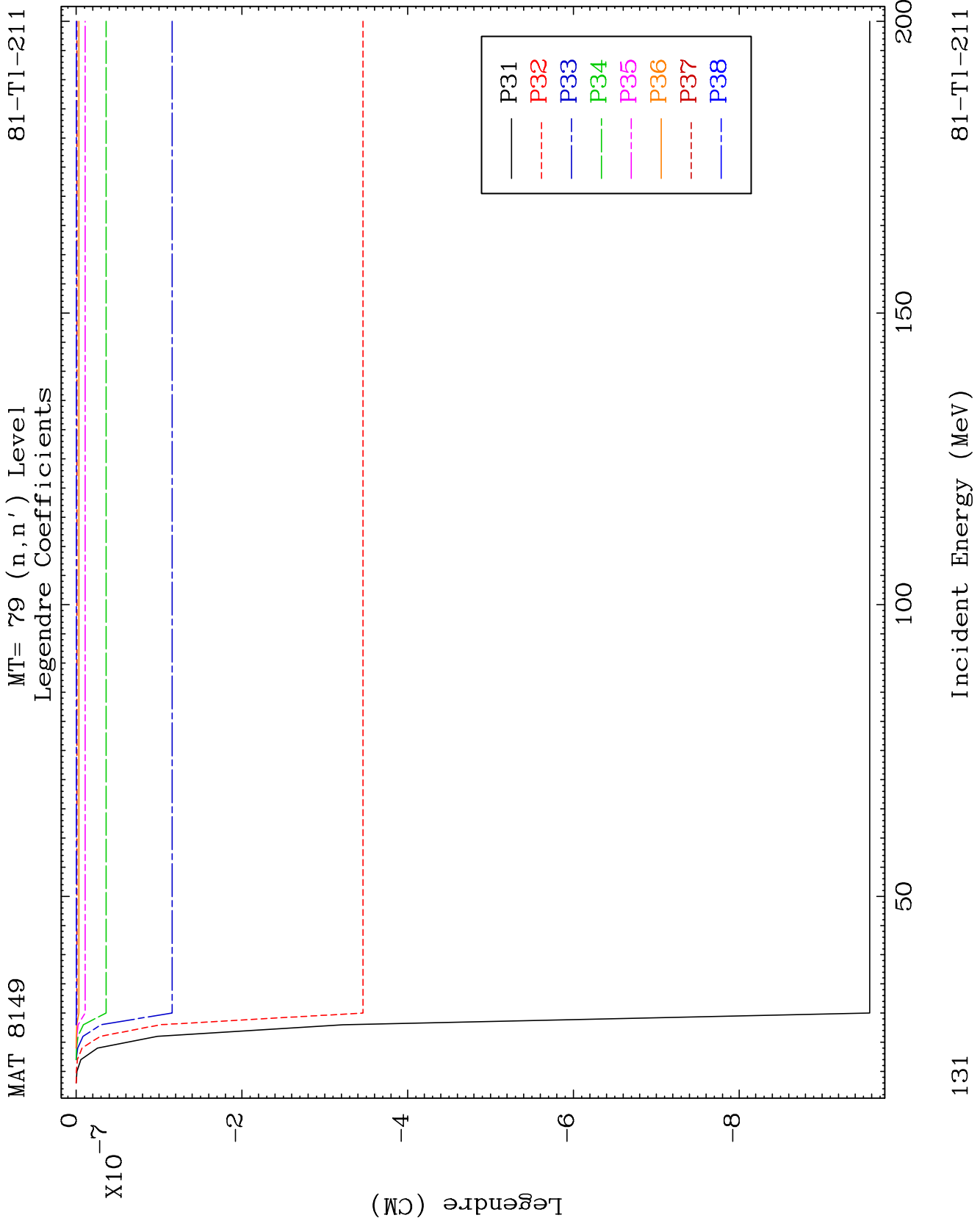
MAT 8149

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

81-Tl-211



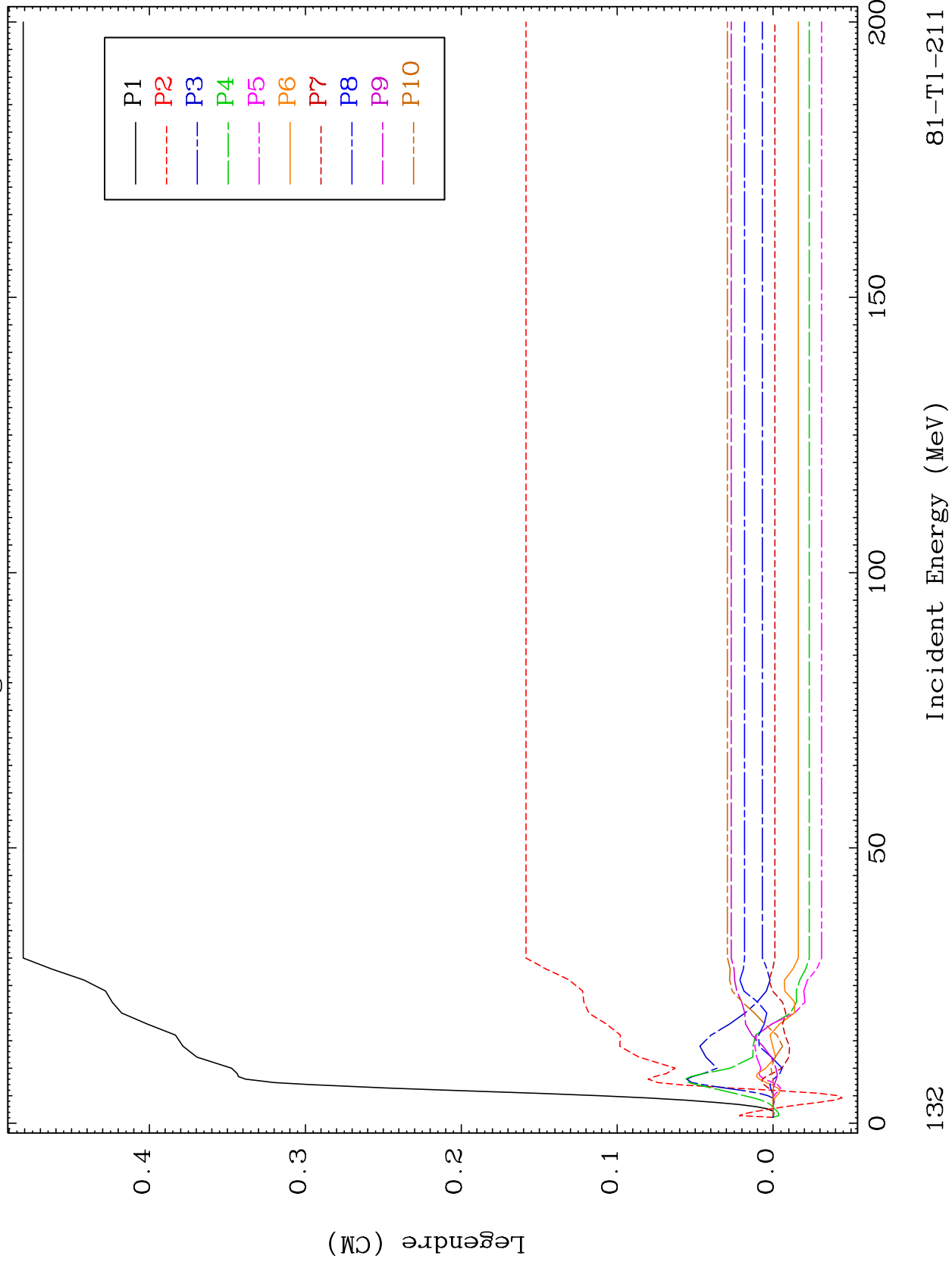
130



MAT 8149

MT= 80 (n,n') Level
Legendre Coefficients

81-Tl-211



81-Tl-211

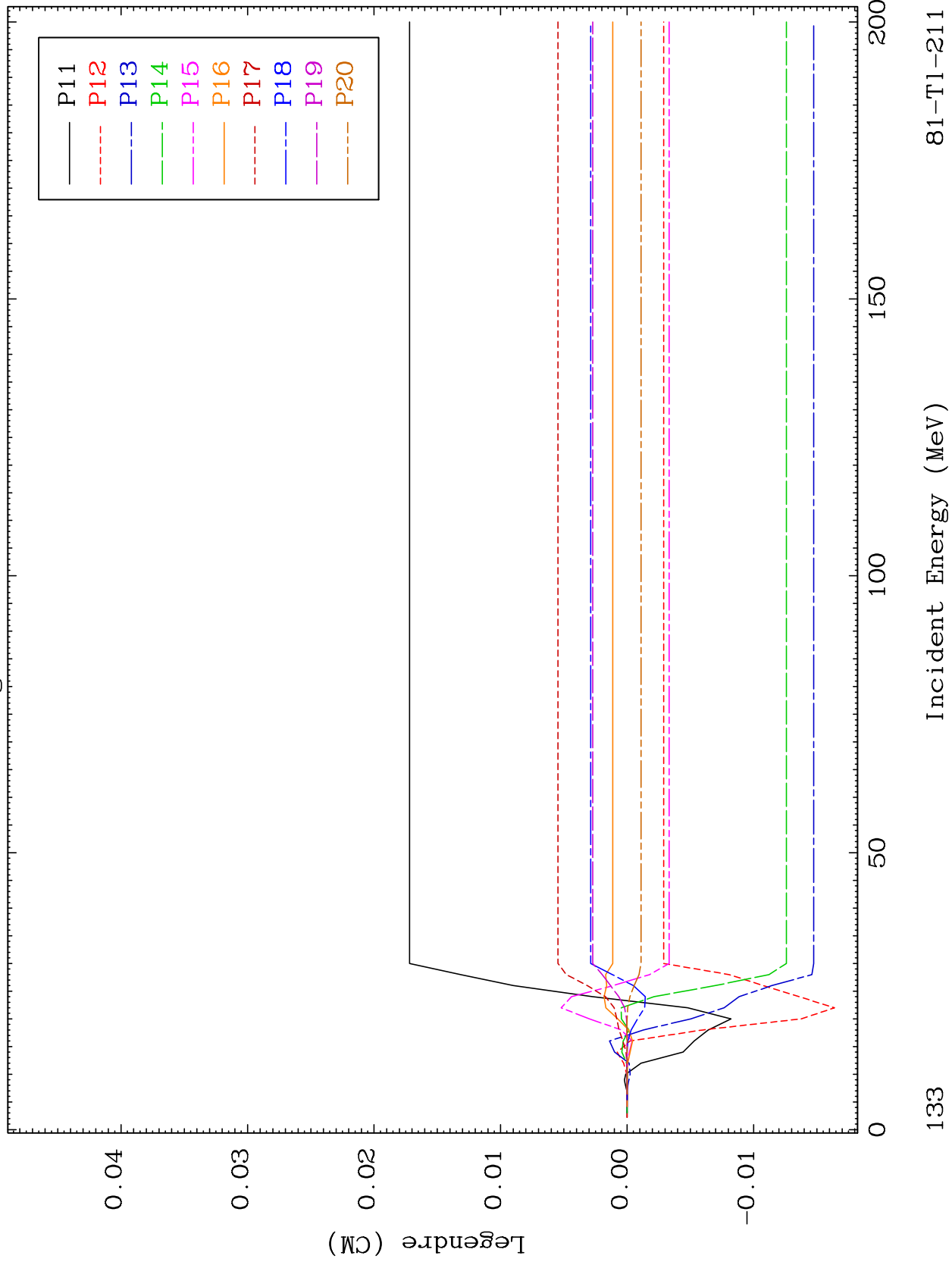
Incident Energy (MeV)

132

MAT 8149

MT= 80 (n,n') Level
Legendre Coefficients

81-Tl-211



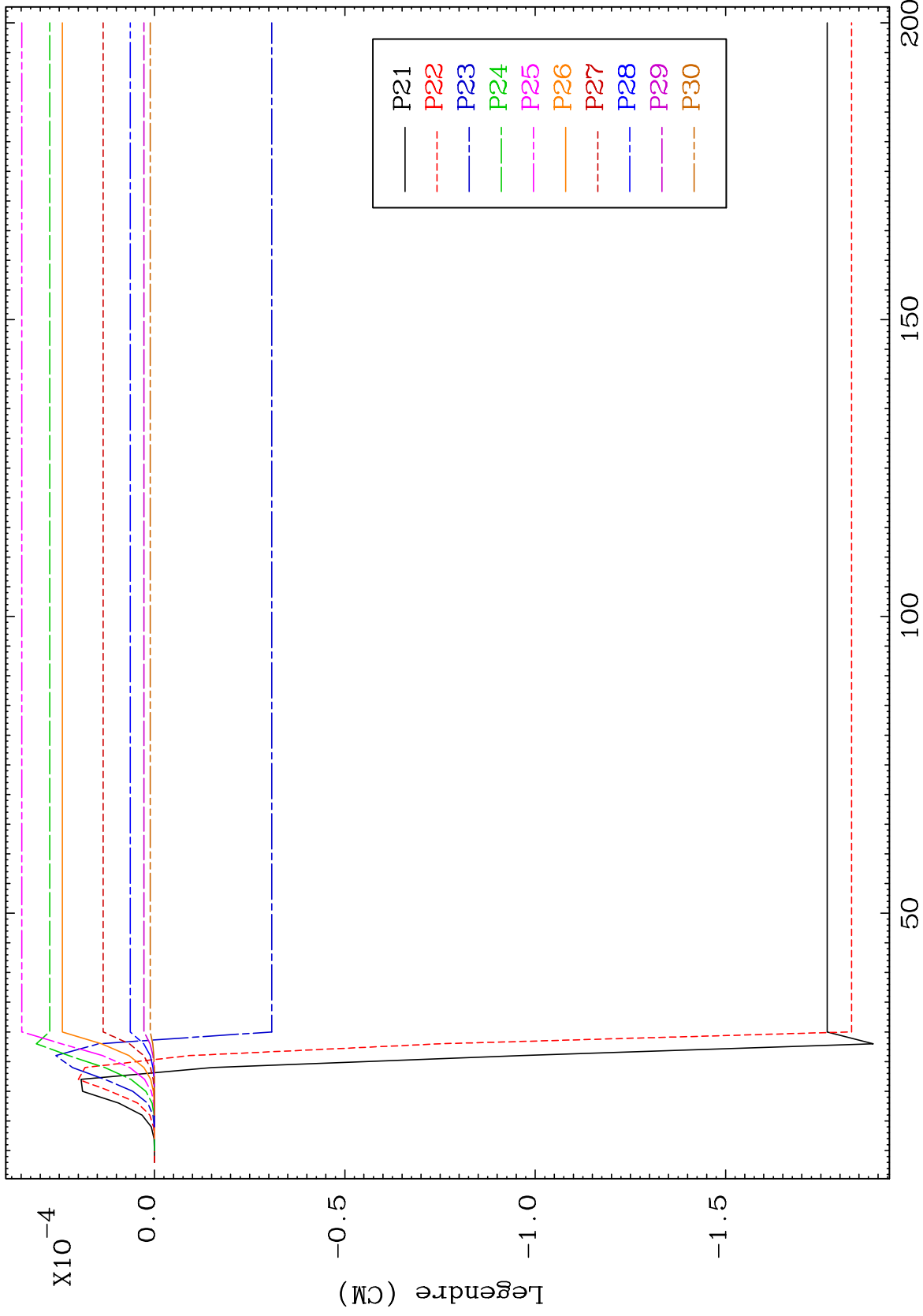
133

81-Tl-211

MAT 8149

MT= 80 (n,n') Level
Legendre Coefficients

81-Tl-211



134

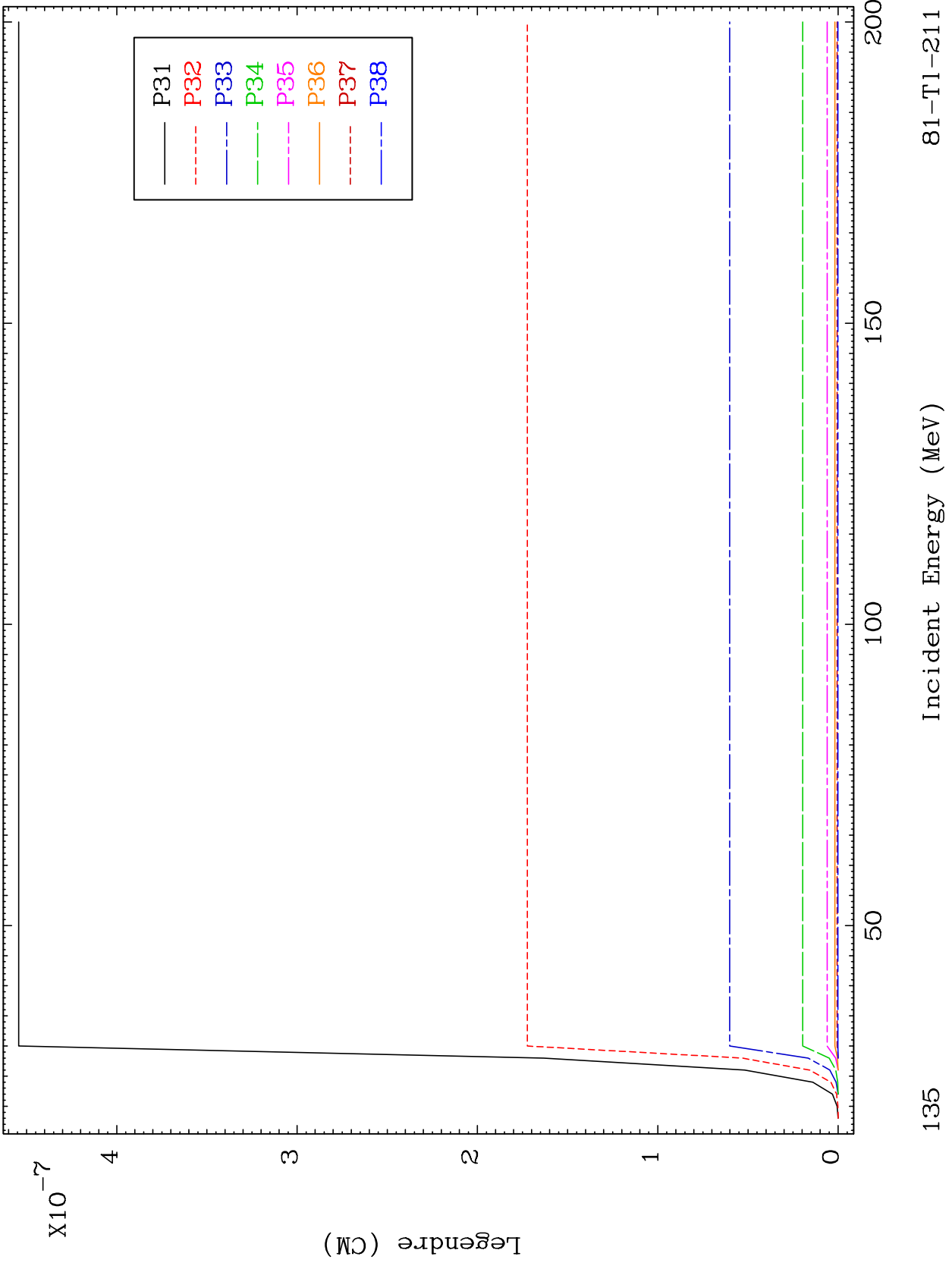
Incident Energy (MeV)

81-Tl-211

MAT 8149

MT= 80 (n,n') Level
Legendre Coefficients

81-Tl-211



135

Incident Energy (MeV)

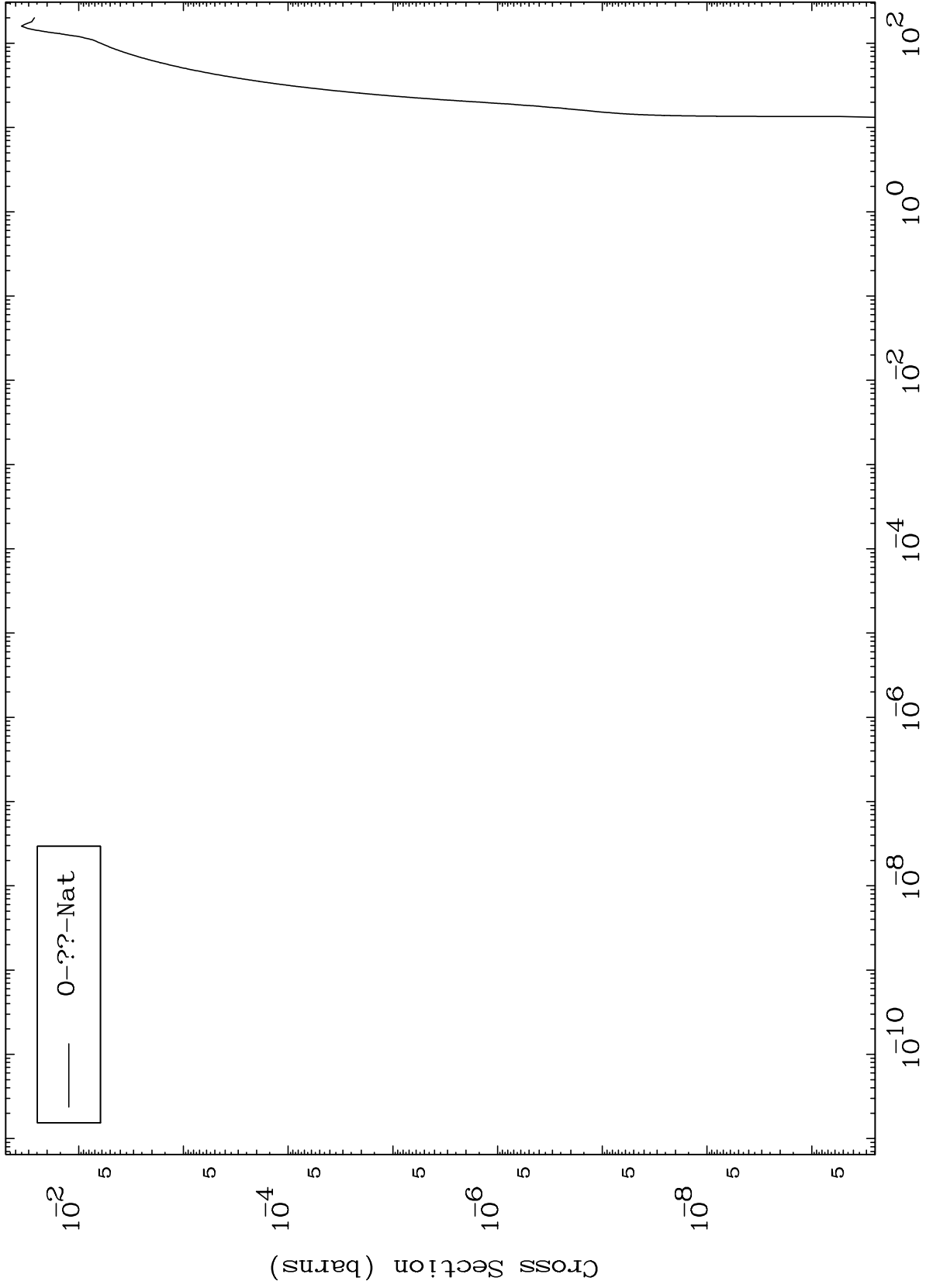
81-Tl-211

MAT 8149

Fission

81-Tl-211

Radionuclide Production Cross Section

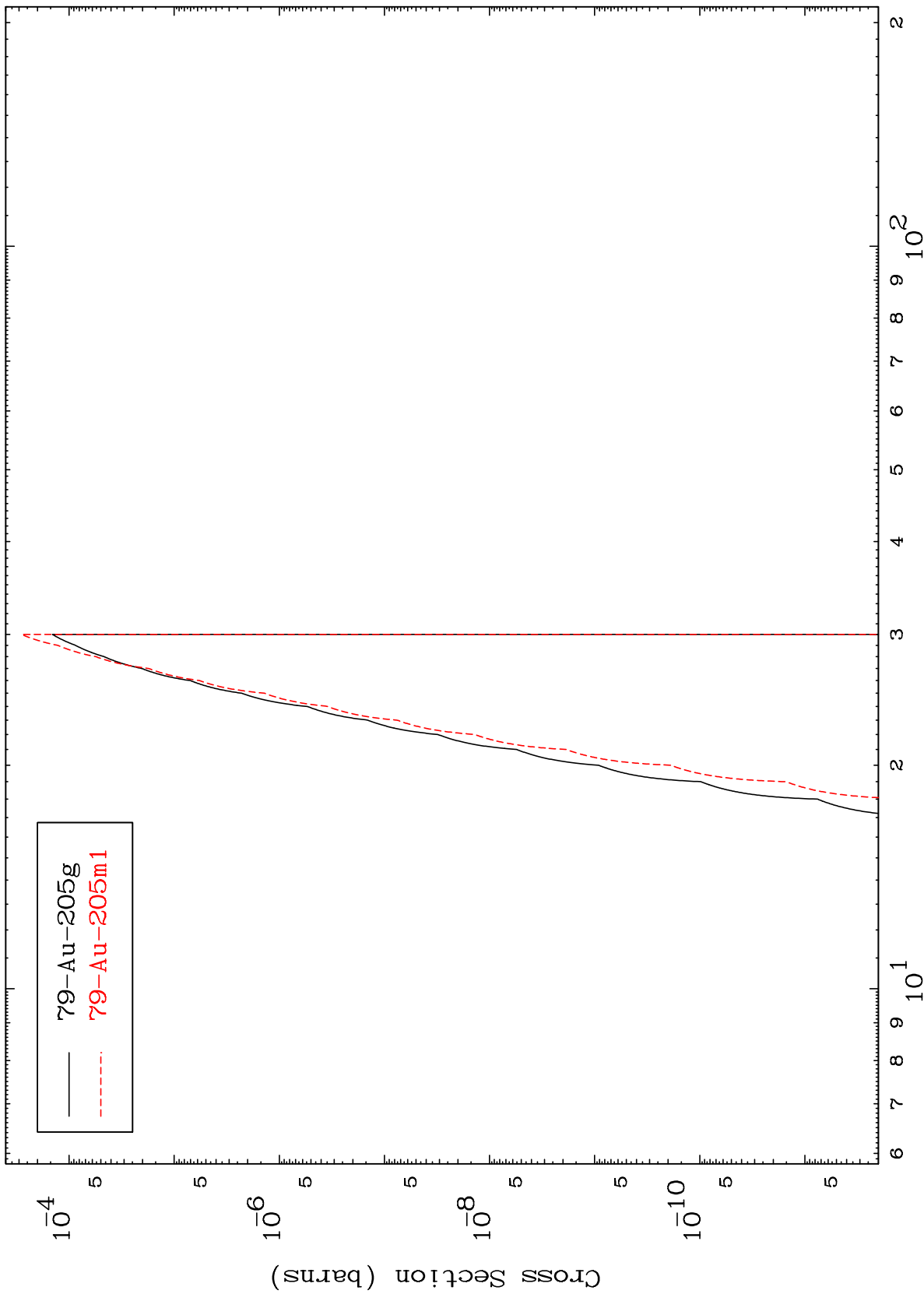


MAT 8149

(n,3n) α

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Radionuclide Production Cross Section



79-Au-205g
79-Au-205m1

137

Incident Energy (MeV)

81-Tl-211