

Program EVALPLOT  
(Version 2018-1)

by

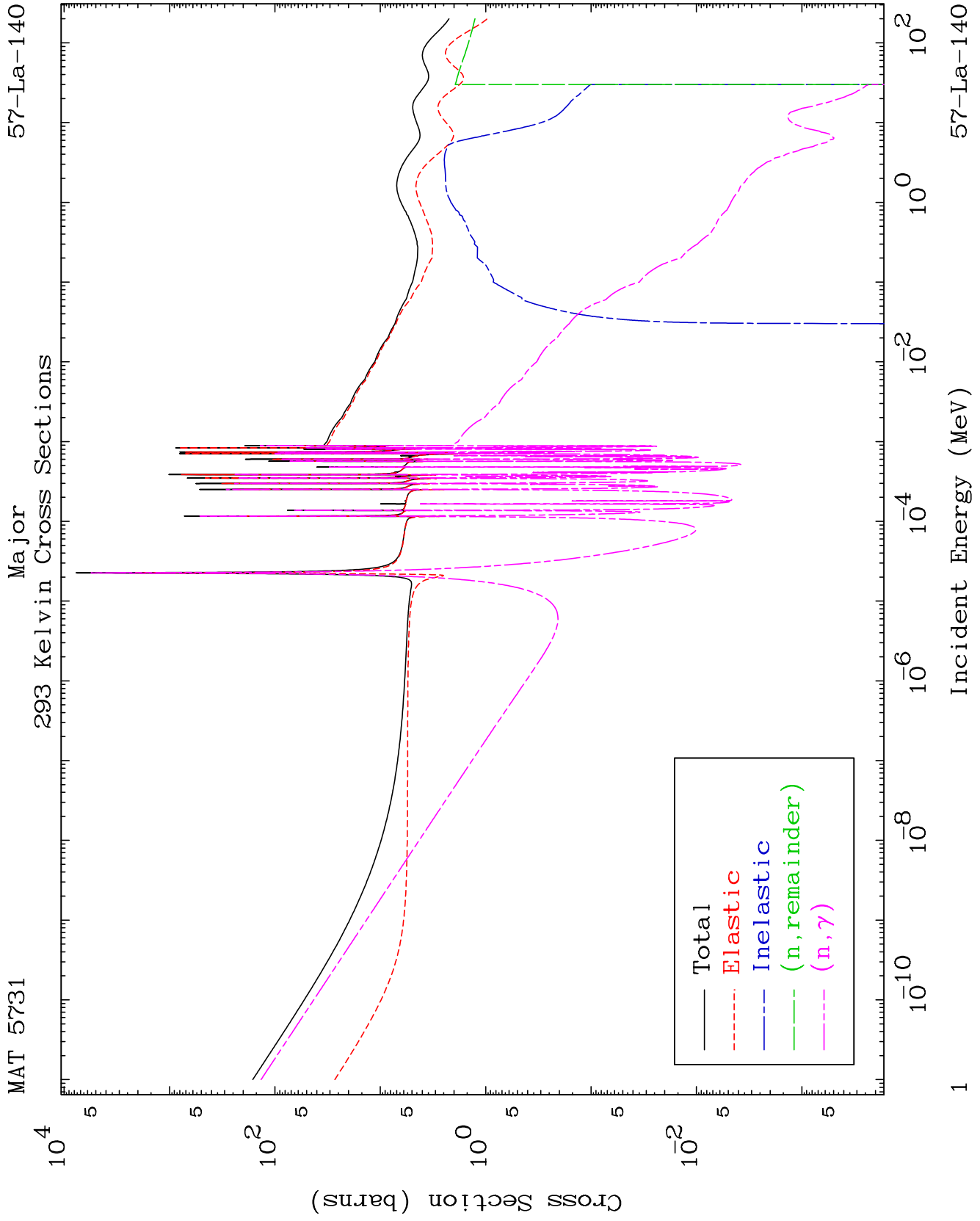
Dermott E. Cullen  
(Present Contact Information)

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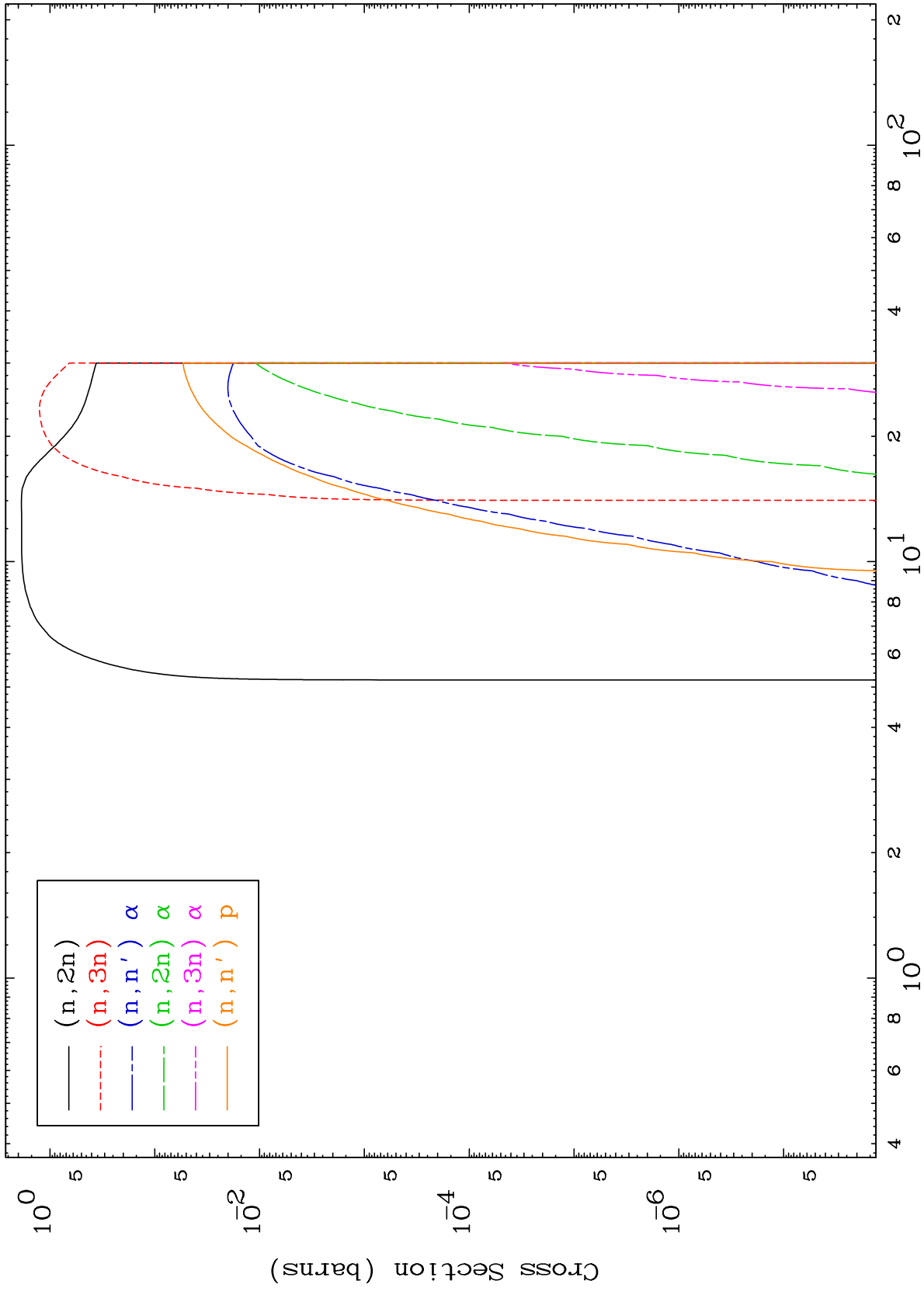
Press Mouse Button to Start



MAT 5731

Neutron Production  
293 Kelvin Cross Sections

57-La-140



2

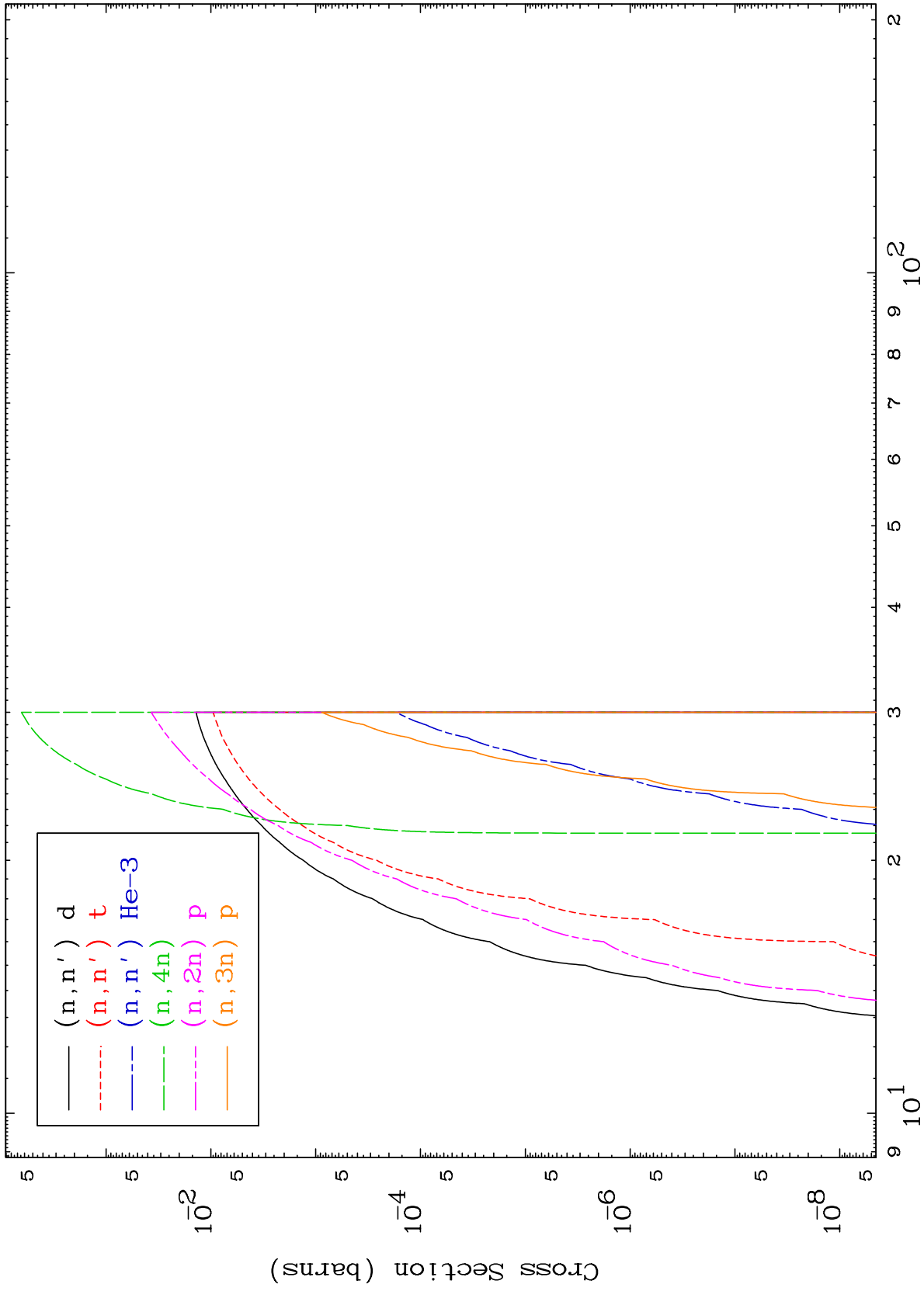
Incident Energy (MeV)

57-La-140

MAT 5731

Neutron Production  
293 Kelvin Cross Sections

57-La-140



3

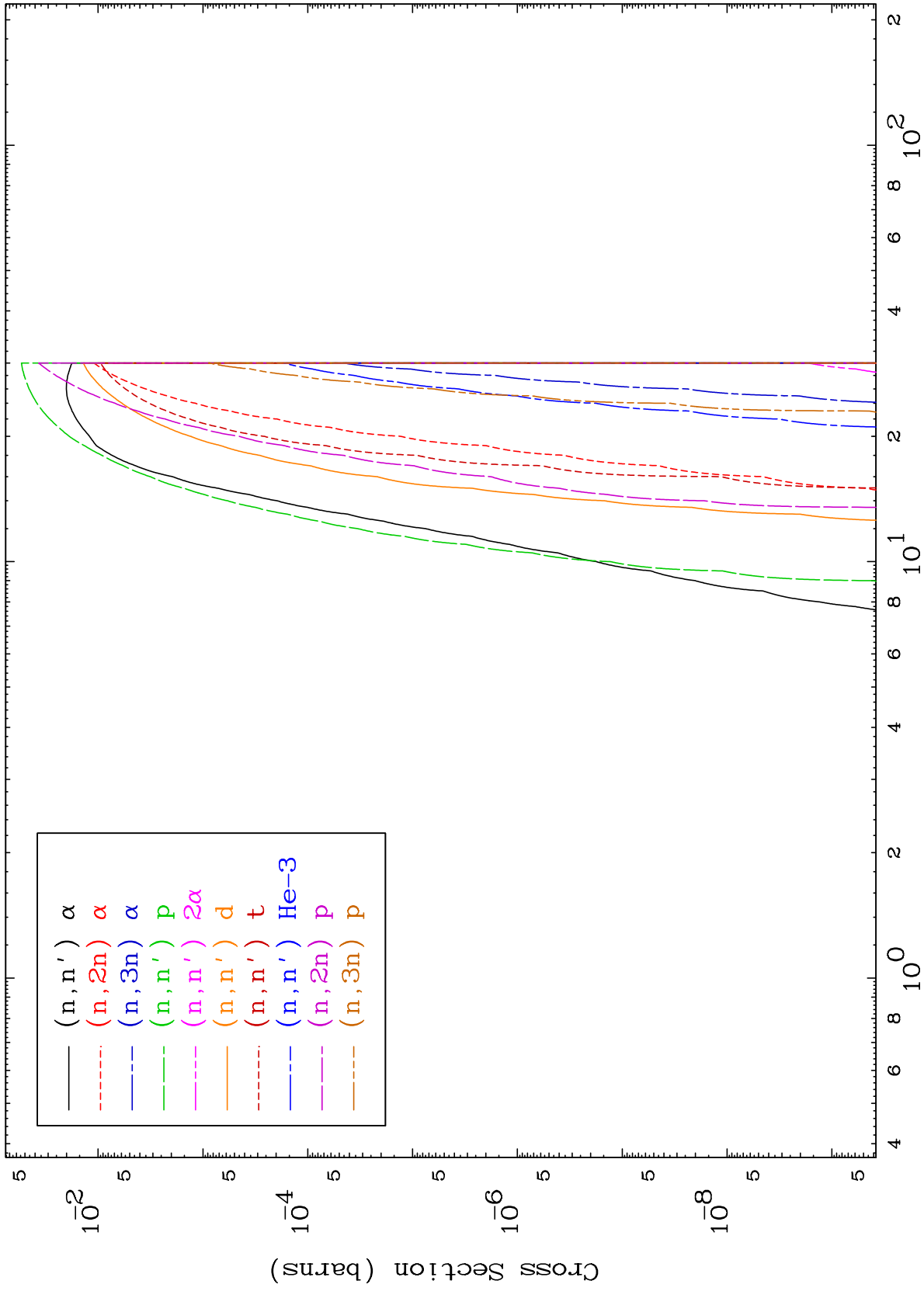
Incident Energy (MeV)

57-La-140

MAT 5731

293 Kelvin Cross Sections  
Charged Particle

57-La-140



4

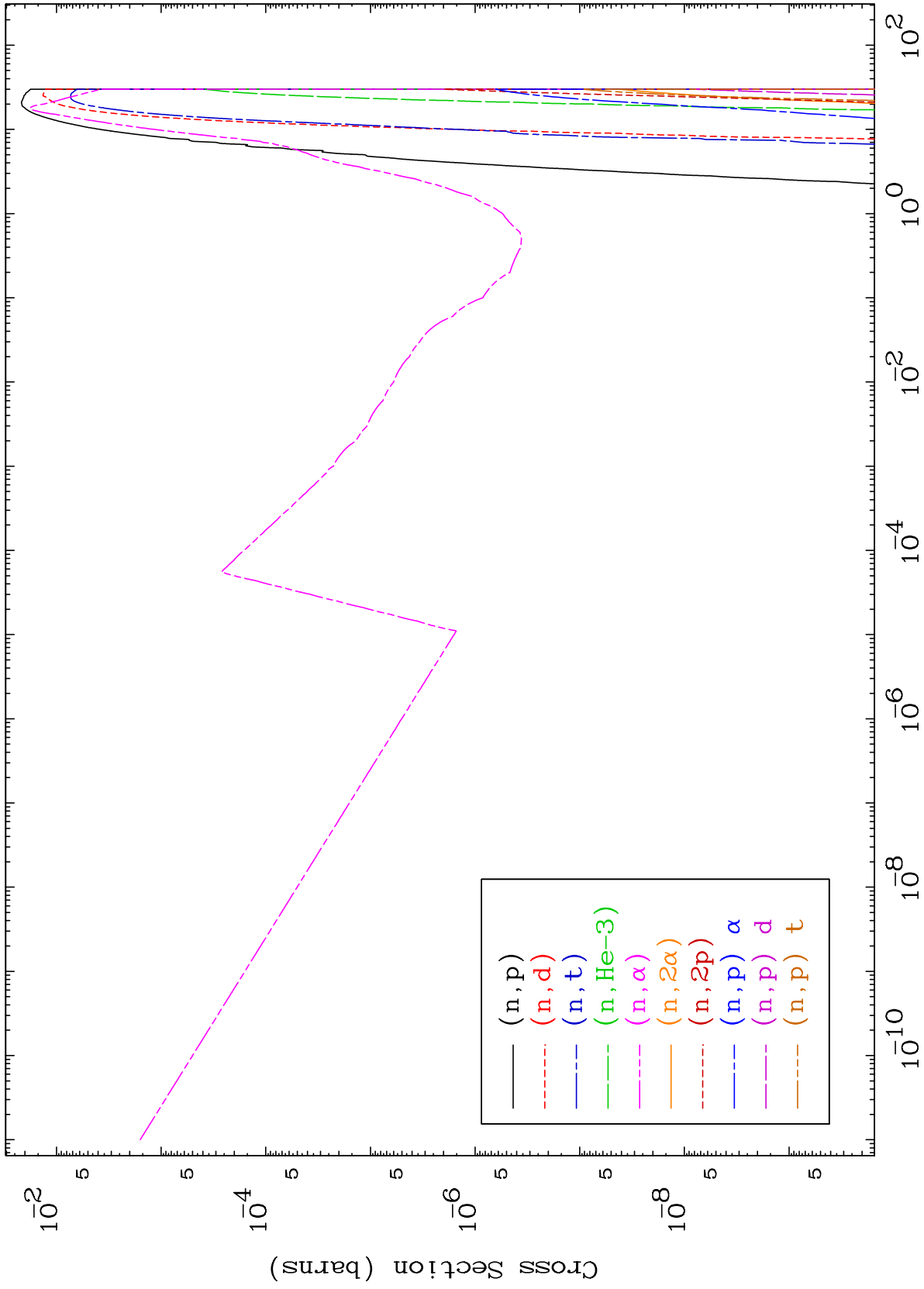
Incident Energy (MeV)

57-La-140

MAT 5731

Charged Particle  
293 Kelvin Cross Sections

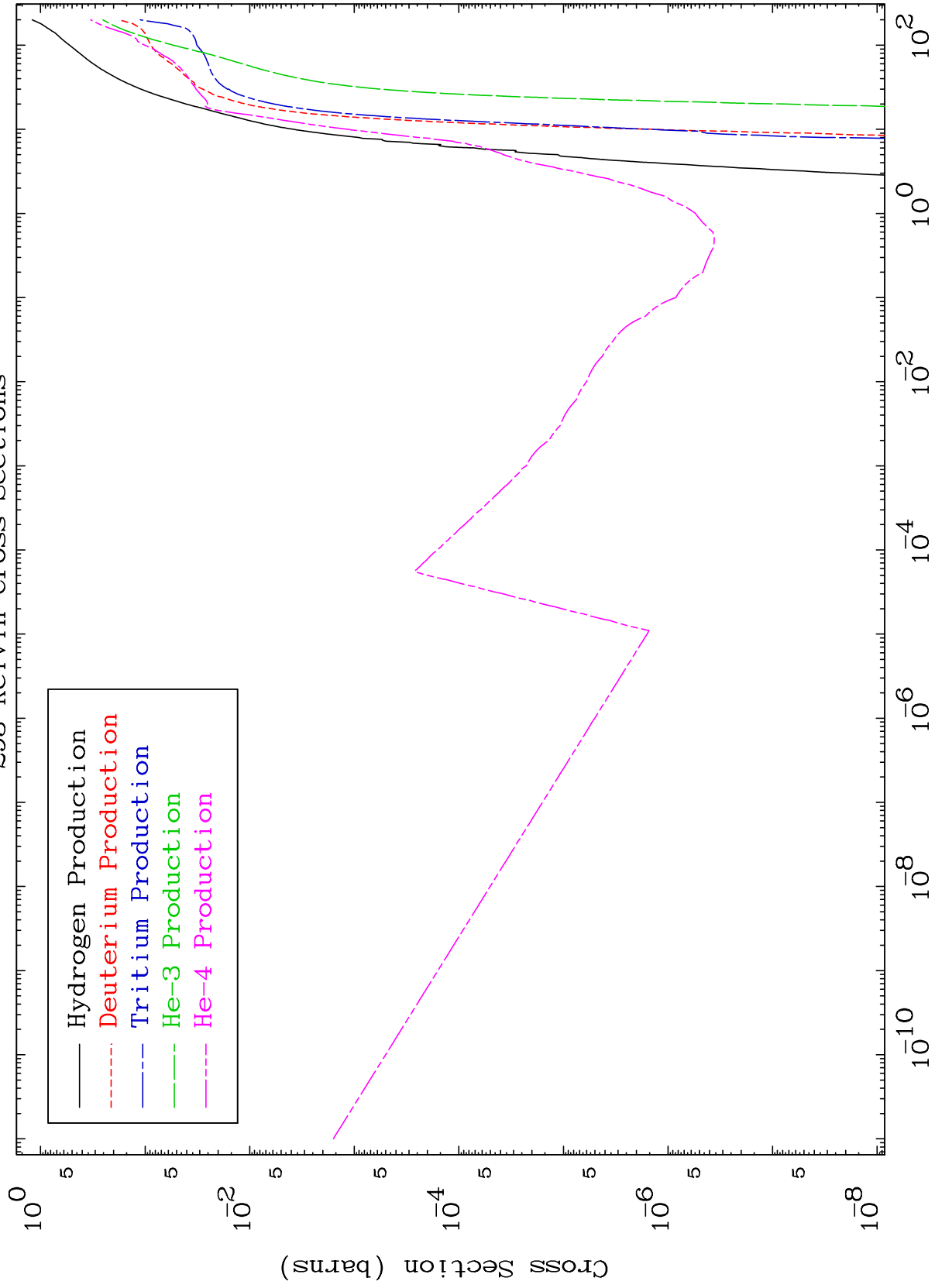
57-La-140



MAT 5731

Particle Production  
293 Kelvin Cross Sections

57-La-140



6

Incident Energy (MeV)

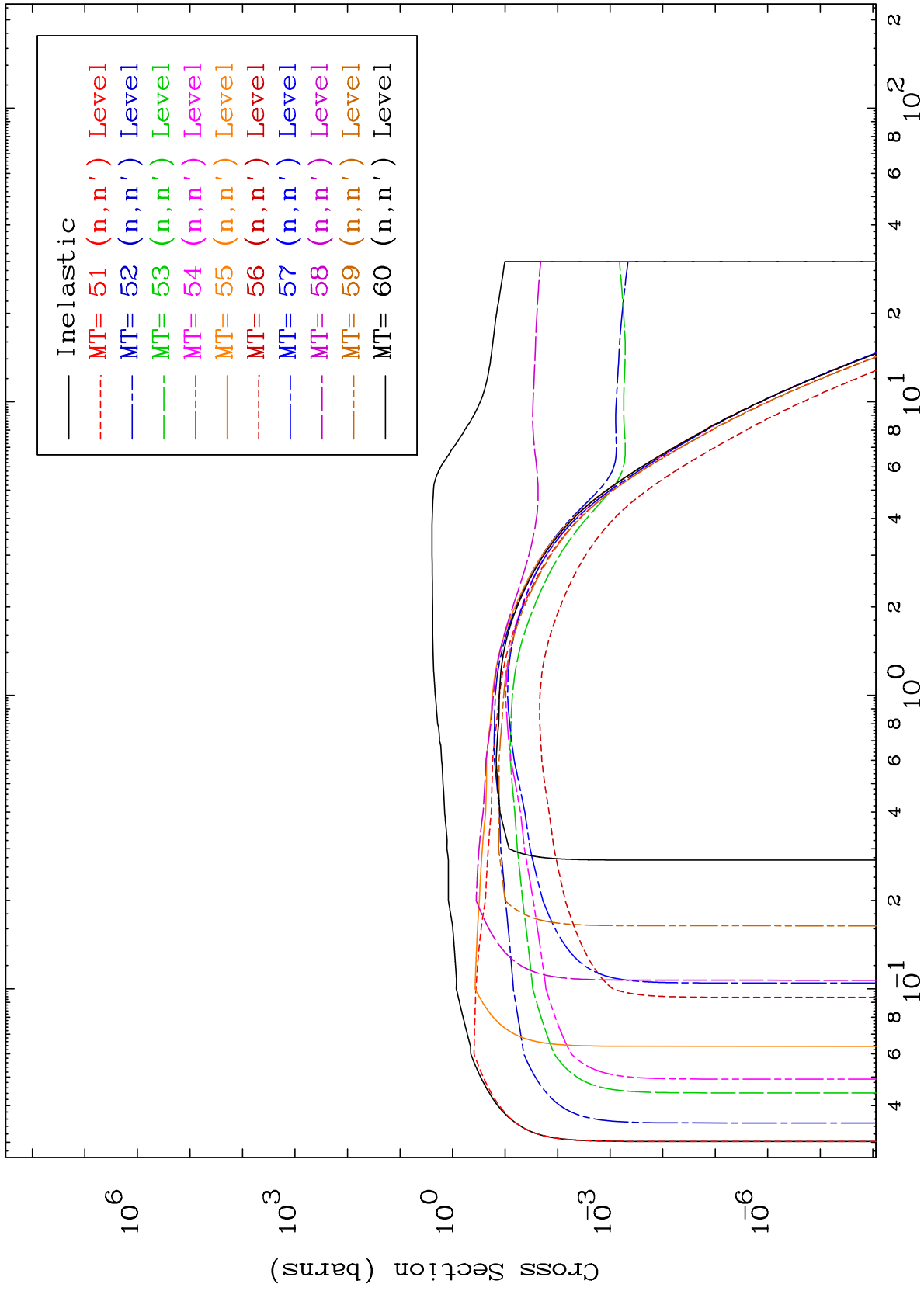
57-La-140

MAT 5731

(n,n') Level

57-La-140

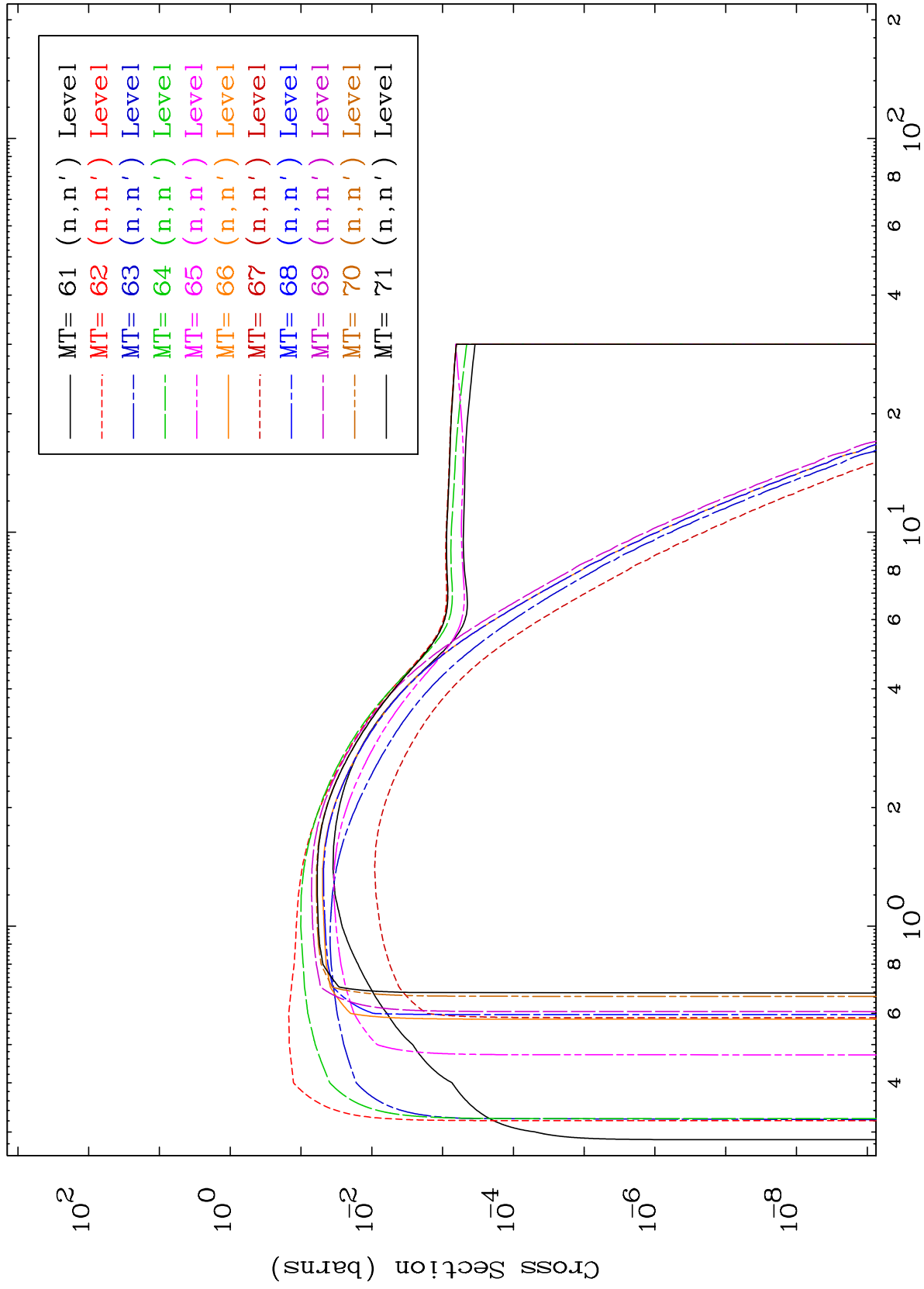
293 Kelvin Cross Sections



MAT 5731

(n,n') Level  
293 Kelvin Cross Sections

57-La-140



8

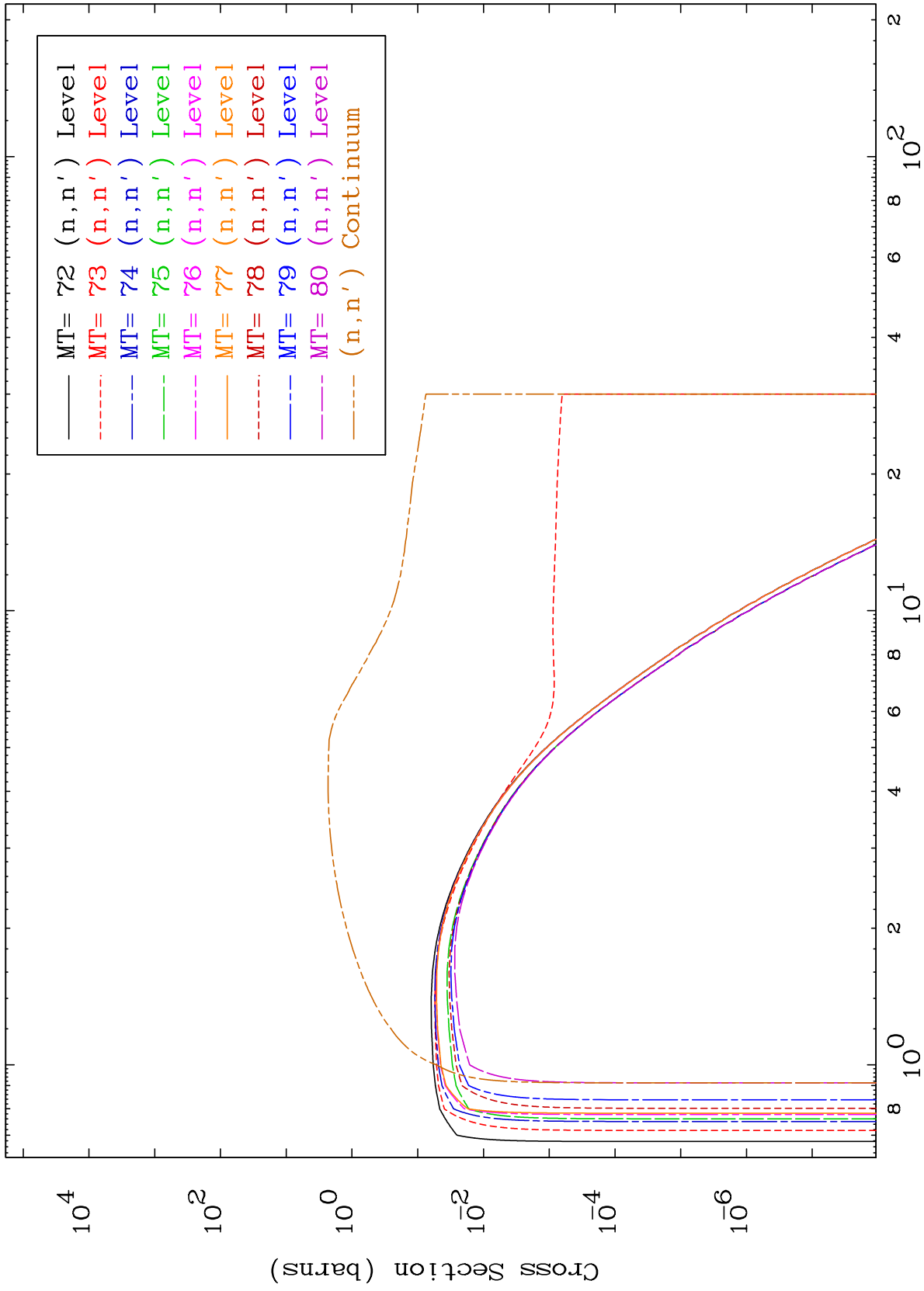
Incident Energy (MeV)

57-La-140

MAT 5731

(n,n') Level  
293 Kelvin Cross Sections

57-La-140



9

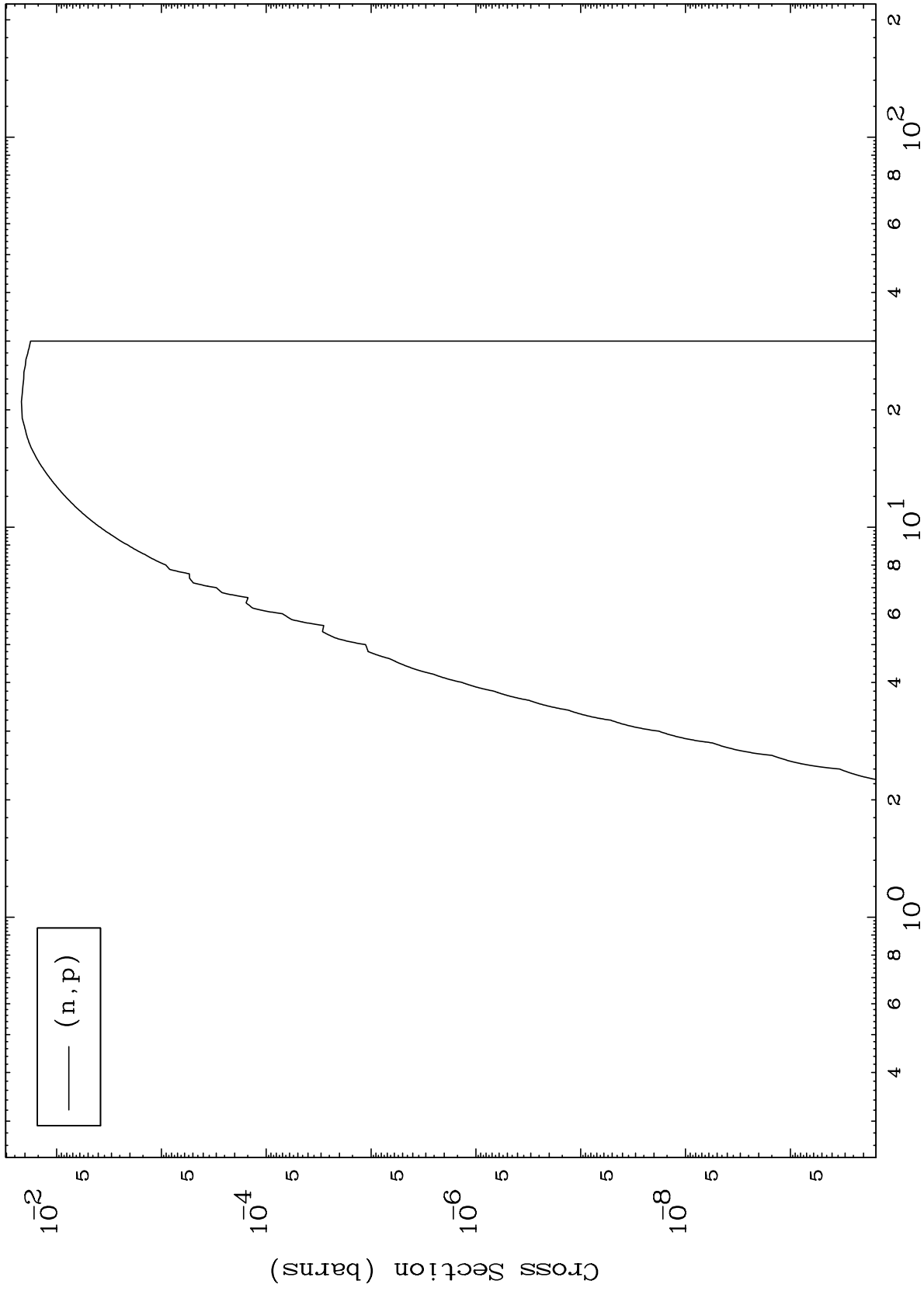
Incident Energy (MeV)

57-La-140

MAT 5731

(n,p) Levels  
293 Kelvin Cross Sections

57-La-140



10

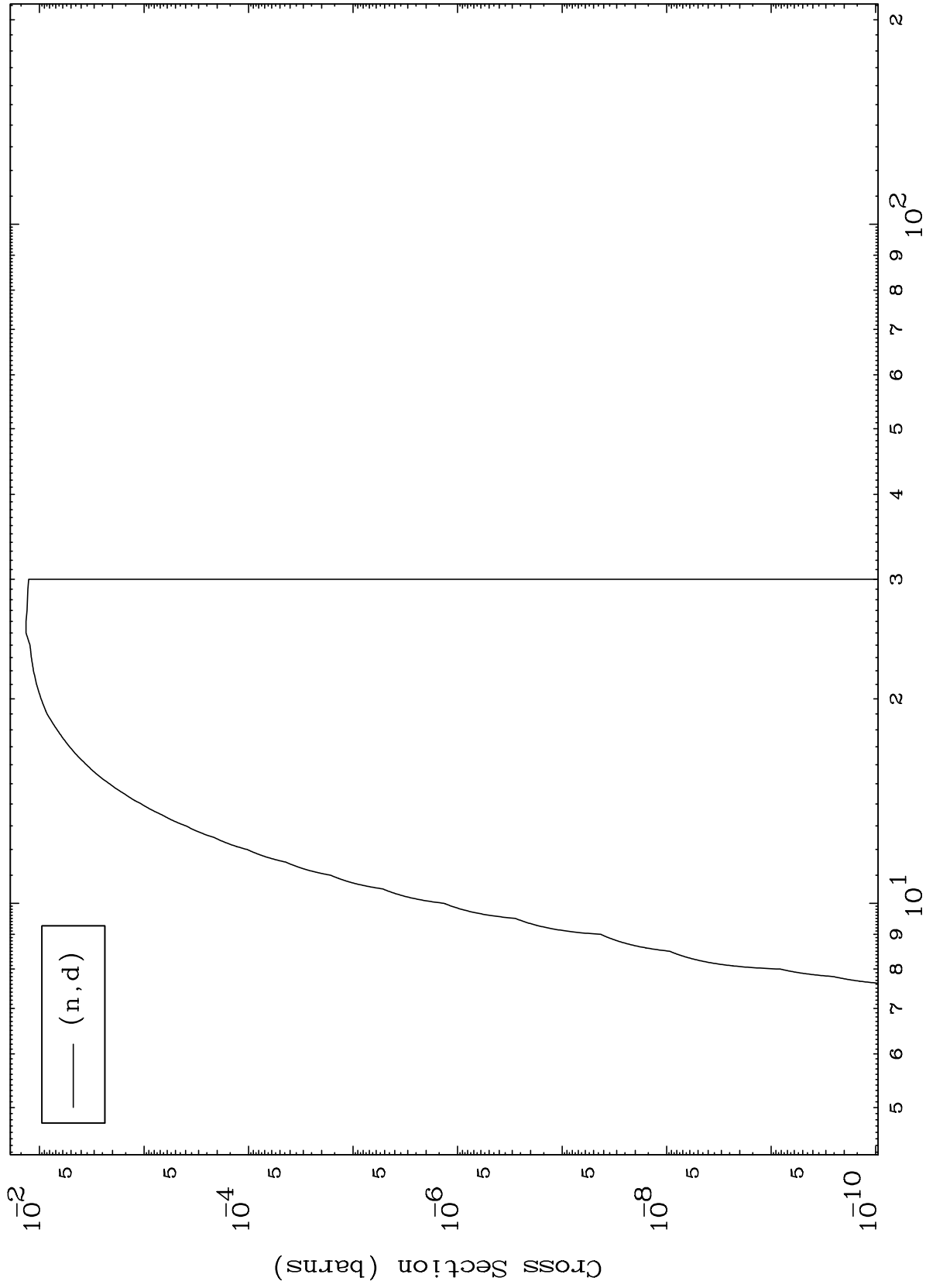
Incident Energy (MeV)

57-La-140

MAT 5731

(n,d) Levels  
293 Kelvin Cross Sections

57-La-140



11

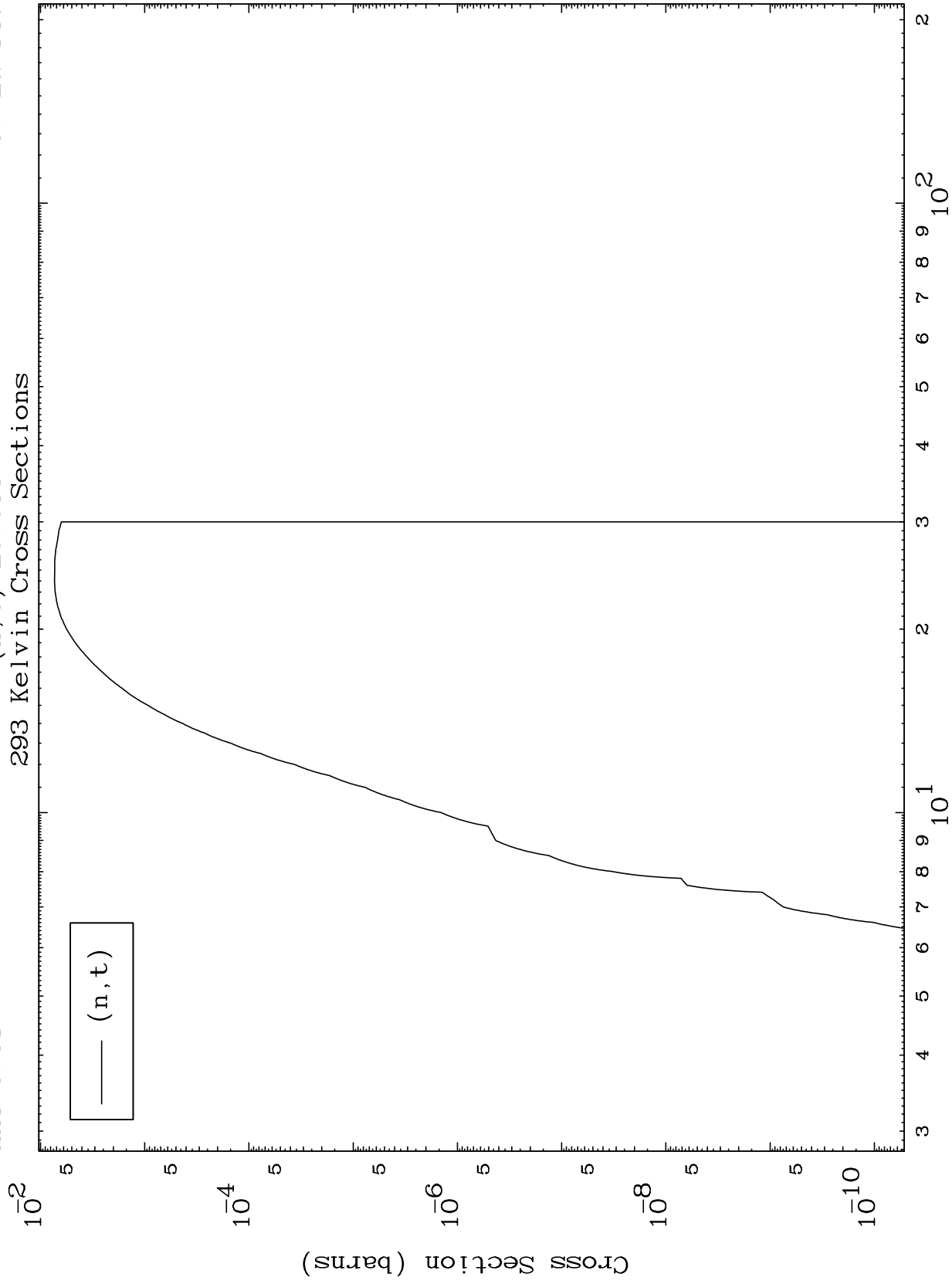
Incident Energy (MeV)

57-La-140

MAT 5731

(n,t) Levels  
293 Kelvin Cross Sections

57-La-140



12

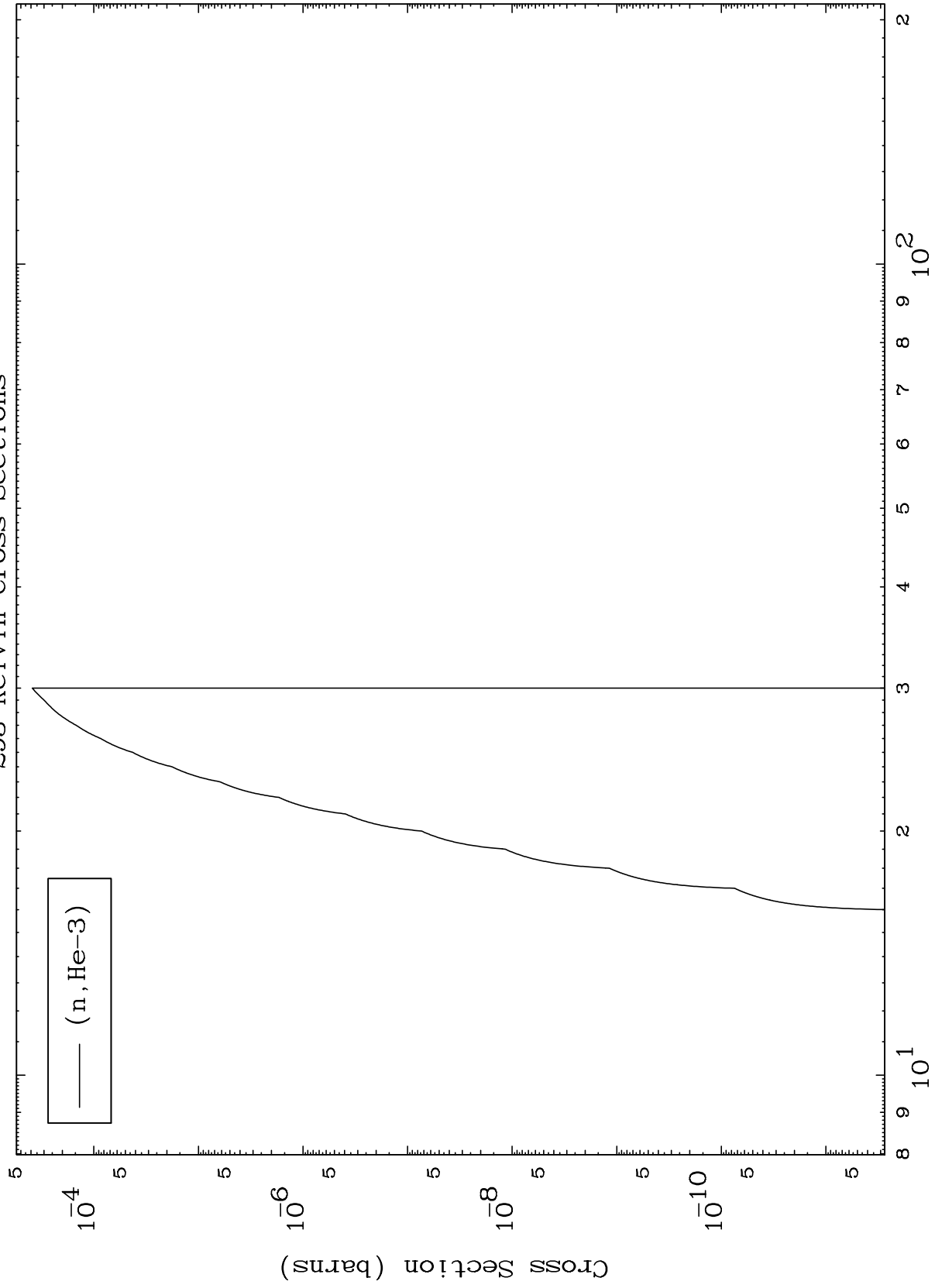
Incident Energy (MeV)

57-La-140

MAT 5731

(n,He3) Levels  
293 Kelvin Cross Sections

57-La-140



13

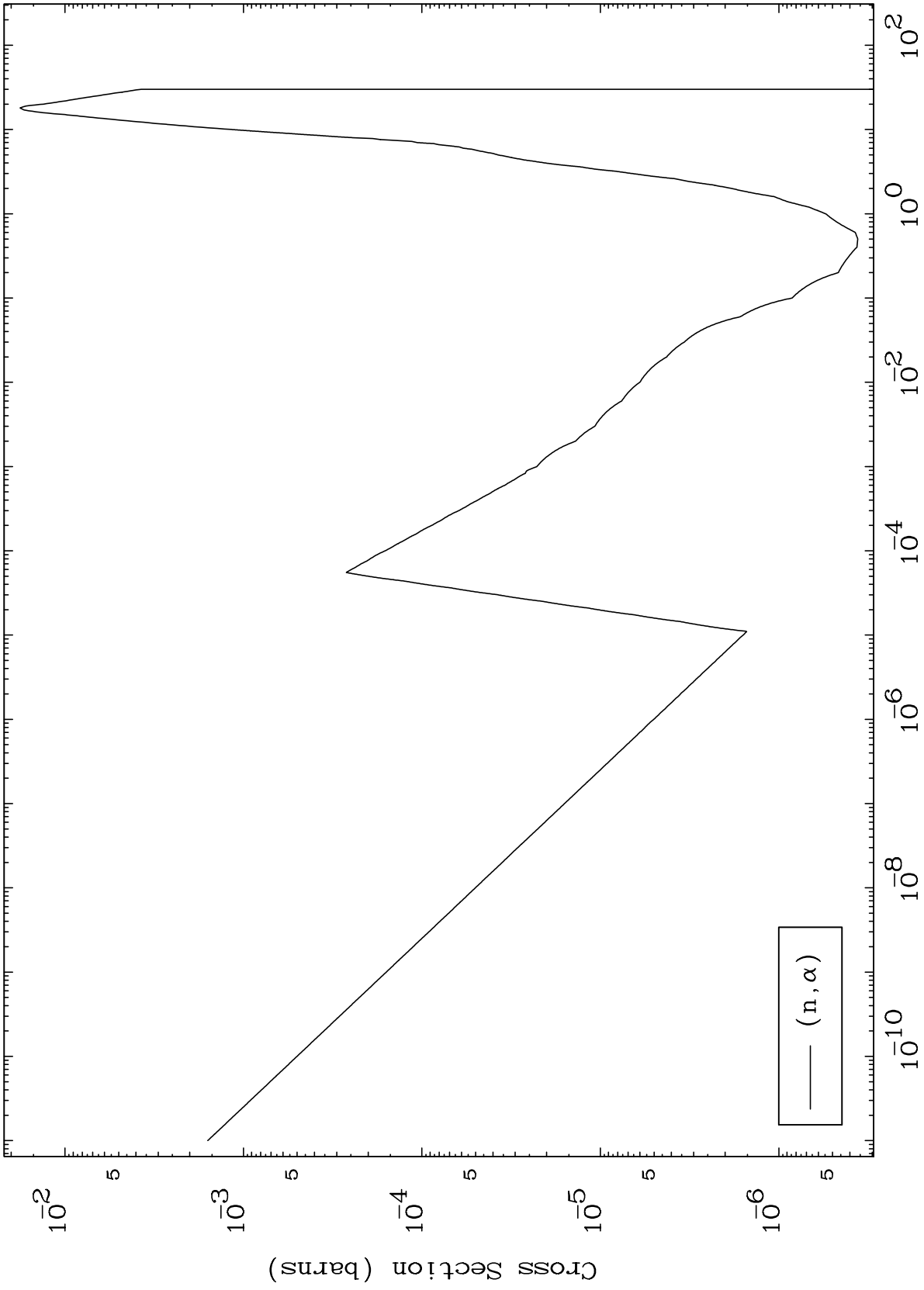
Incident Energy (MeV)

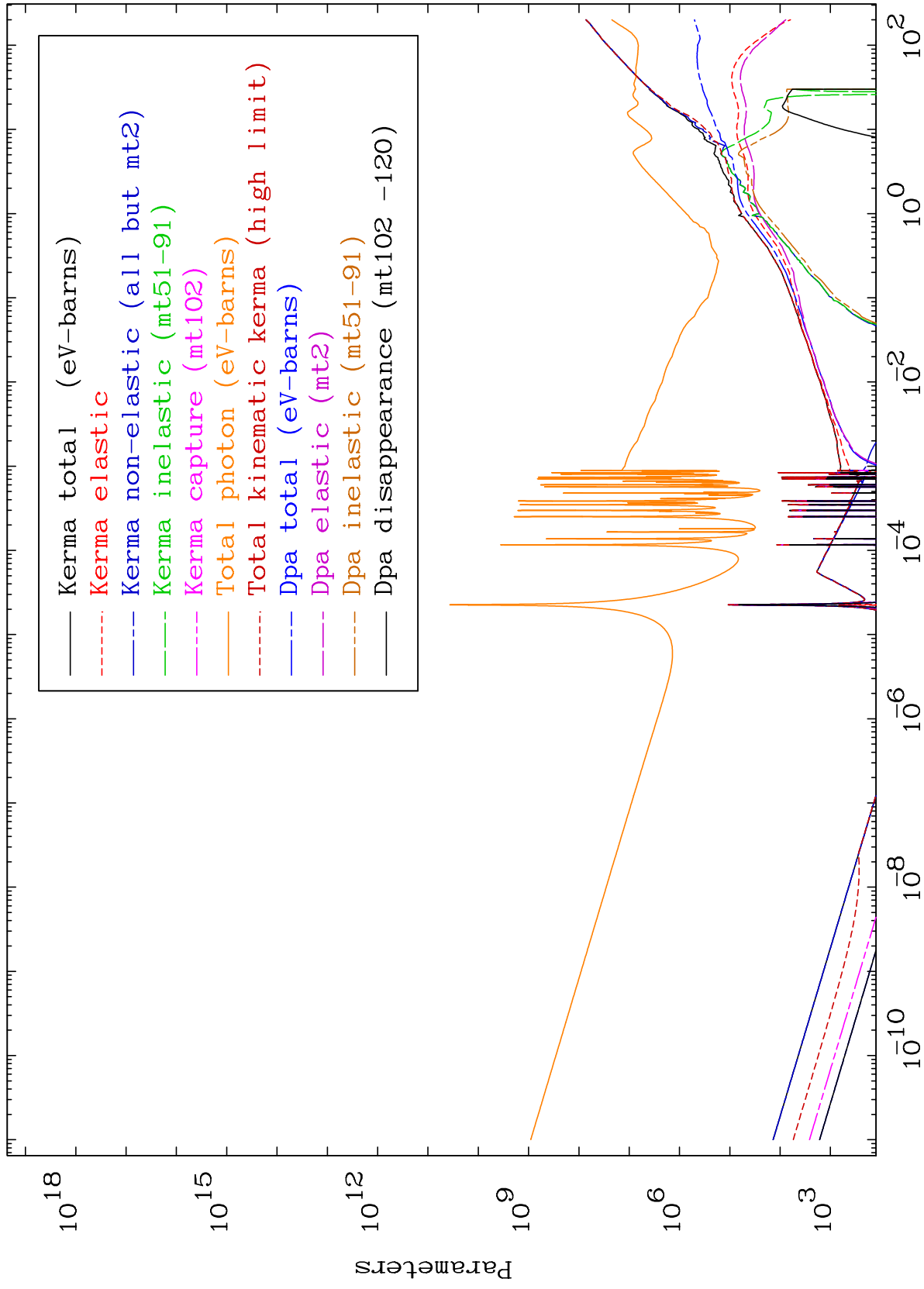
57-La-140

MAT 5731

(n,α) Levels  
293 Kelvin Cross Sections

57-La-140



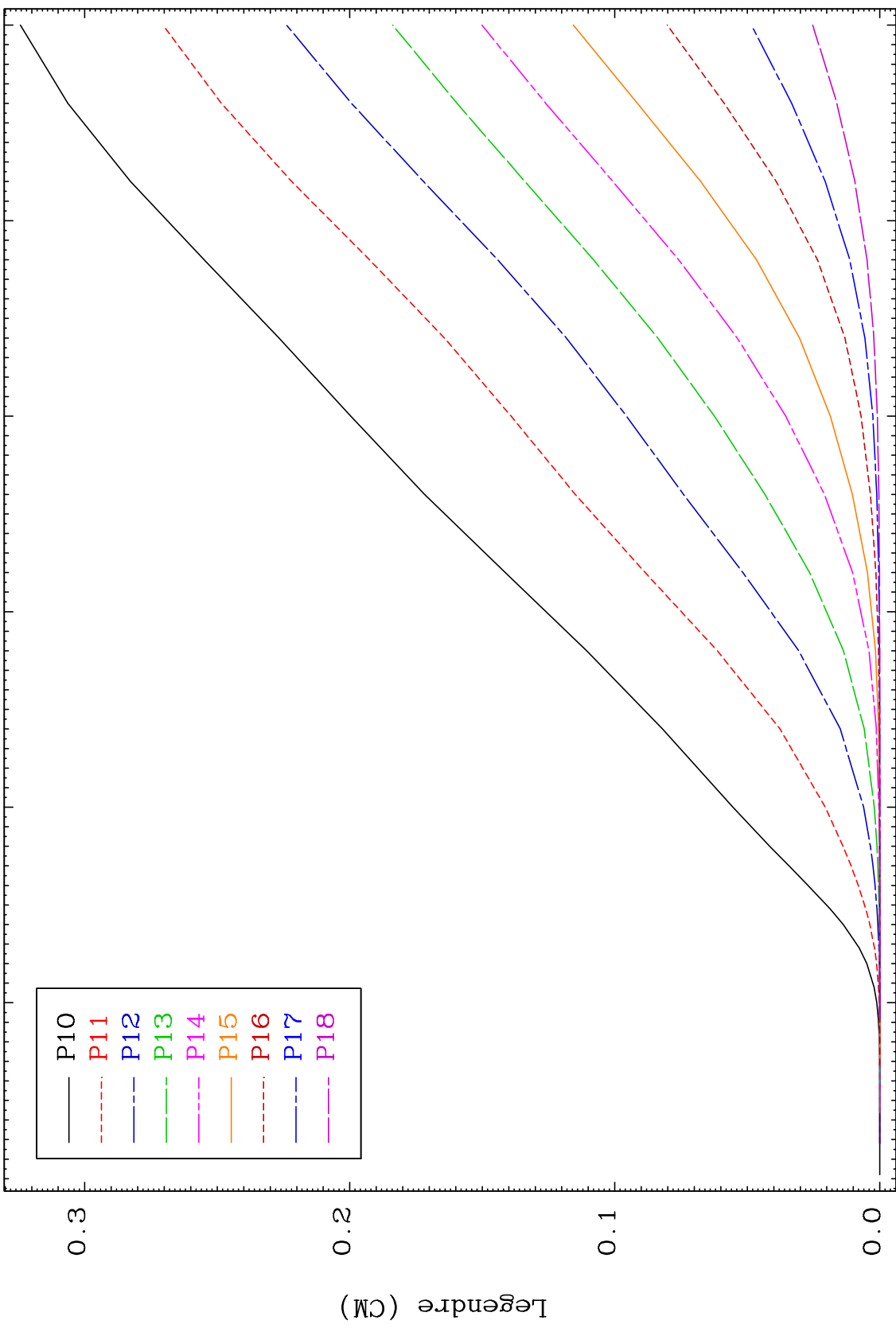




MAT 5731

Elastic Legendre Coefficients

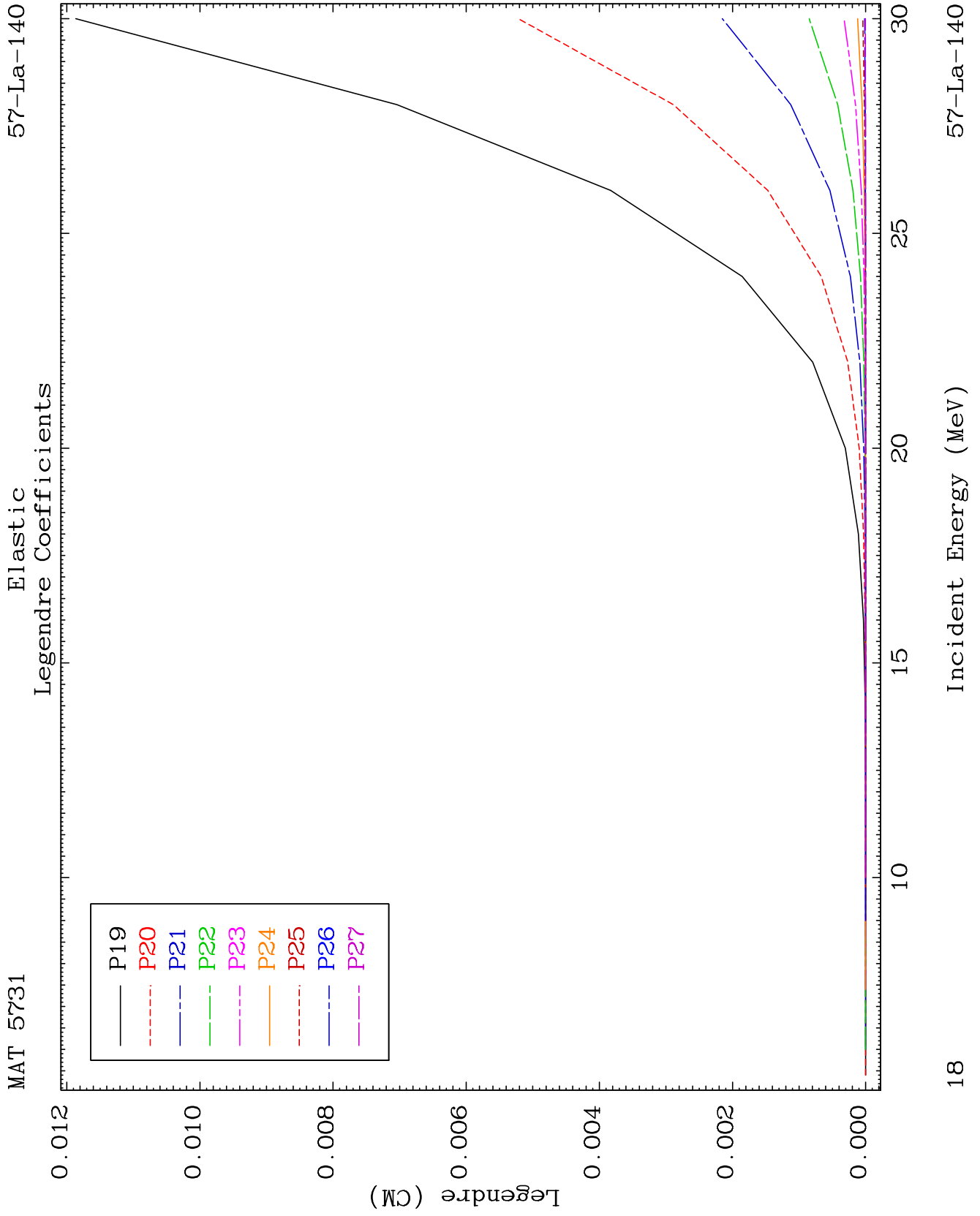
57-La-140



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Incident Energy (MeV)

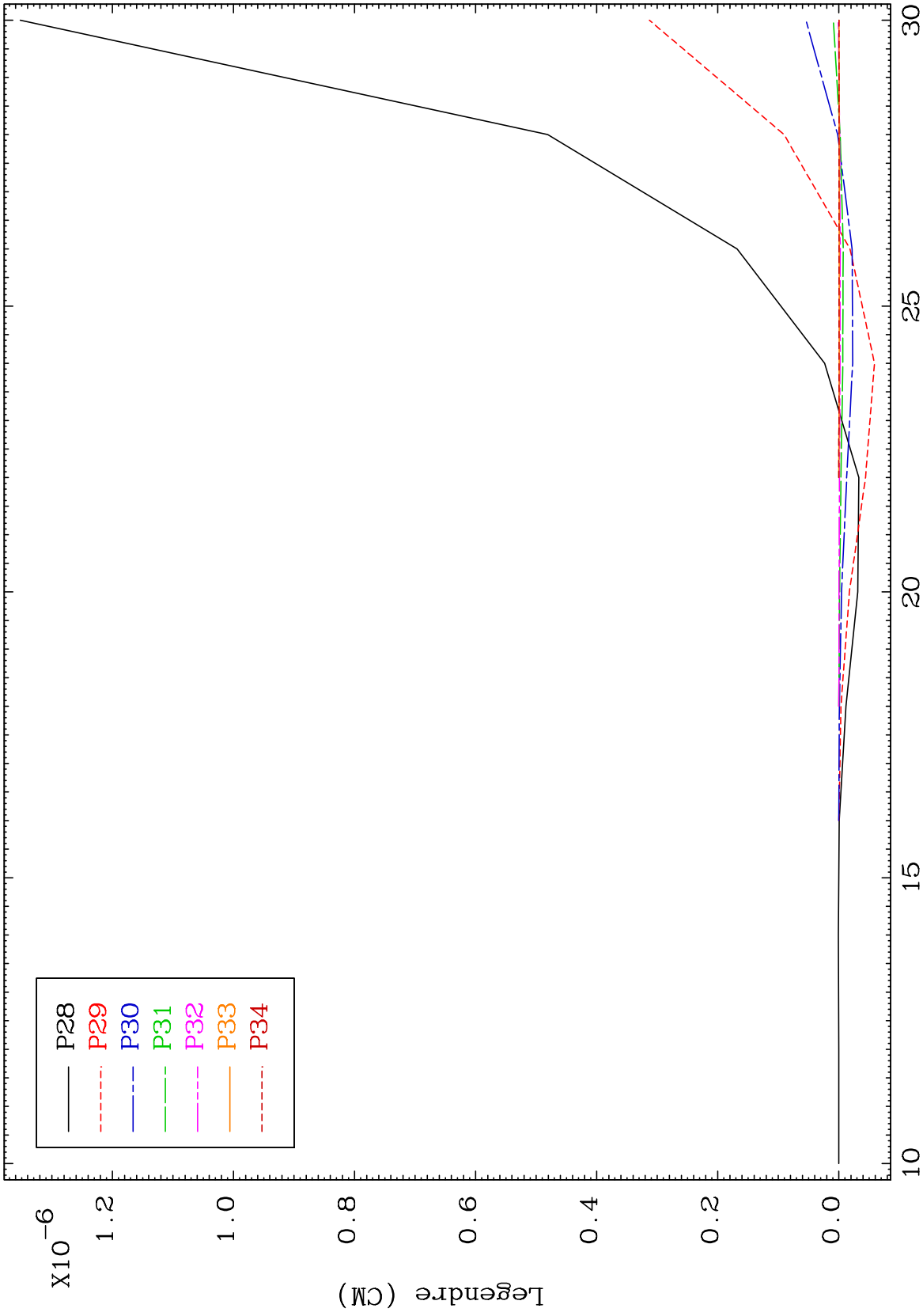
57-La-140



MAT 5731

Elastic Legendre Coefficients

57-La-140

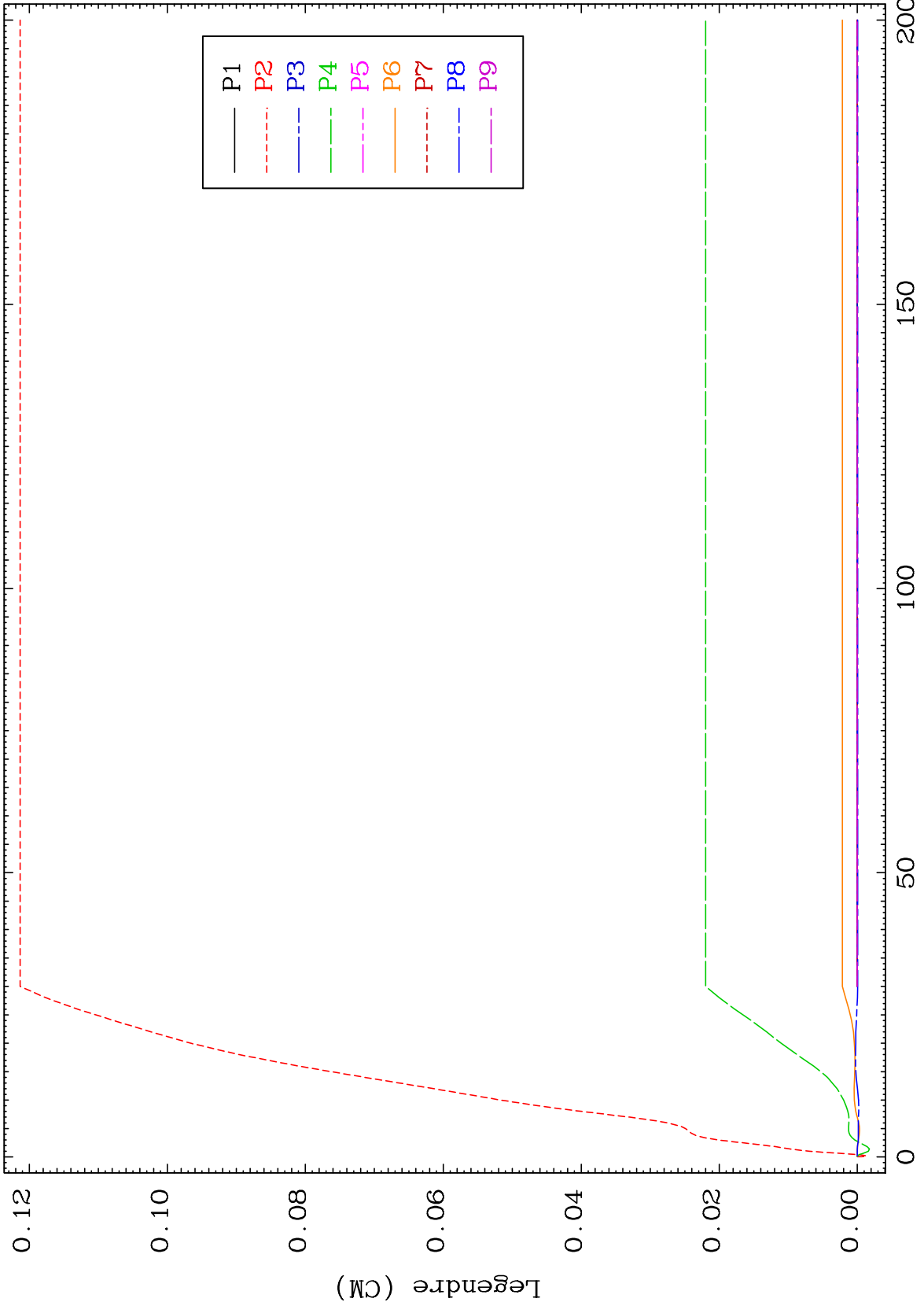


19

Incident Energy (MeV)

57-La-140

MAT 5731 MT= 51 (n,n') Level Legendre Coefficients 57-La-140

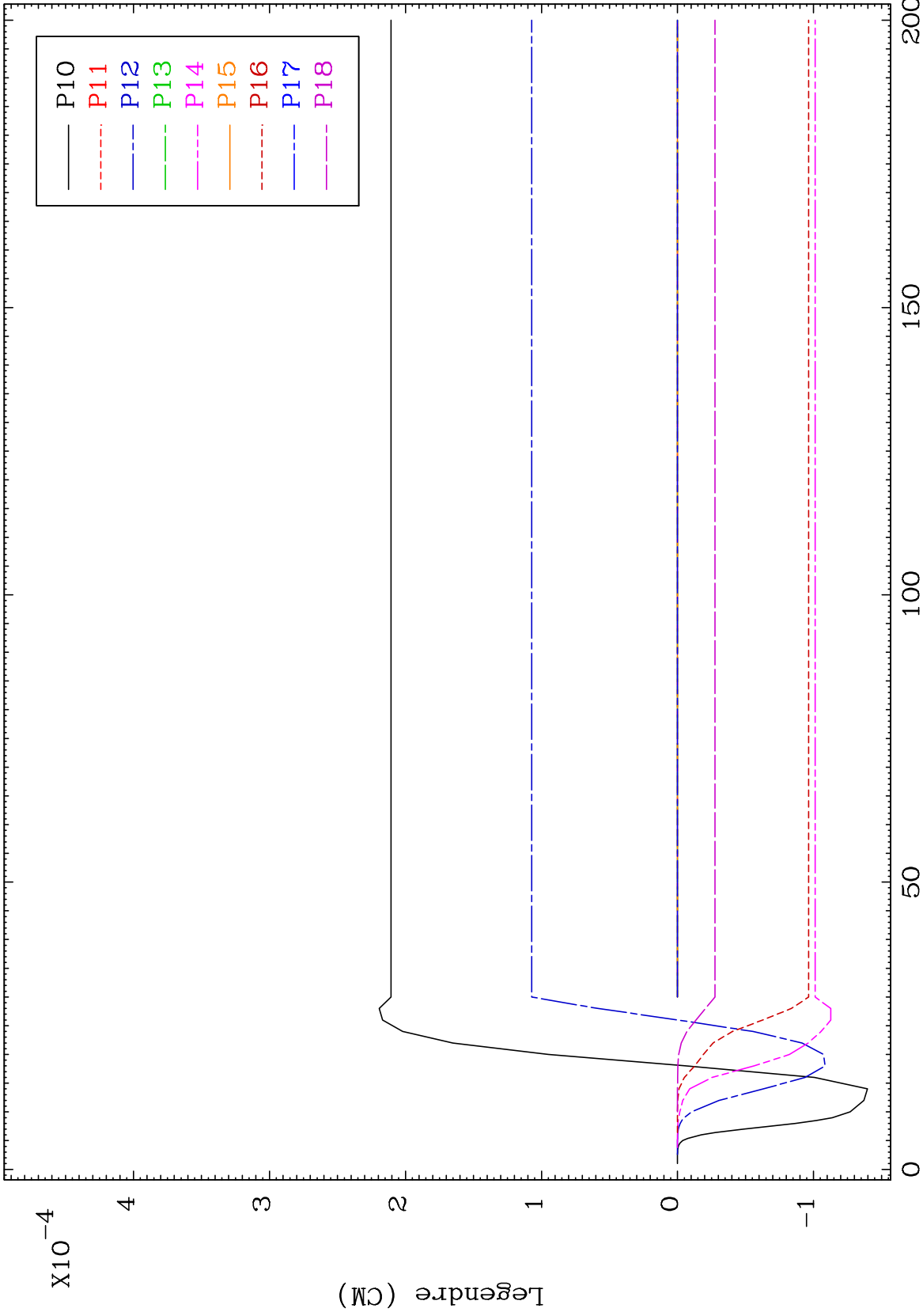


57-La-140

MAT 5731

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

57-La-140

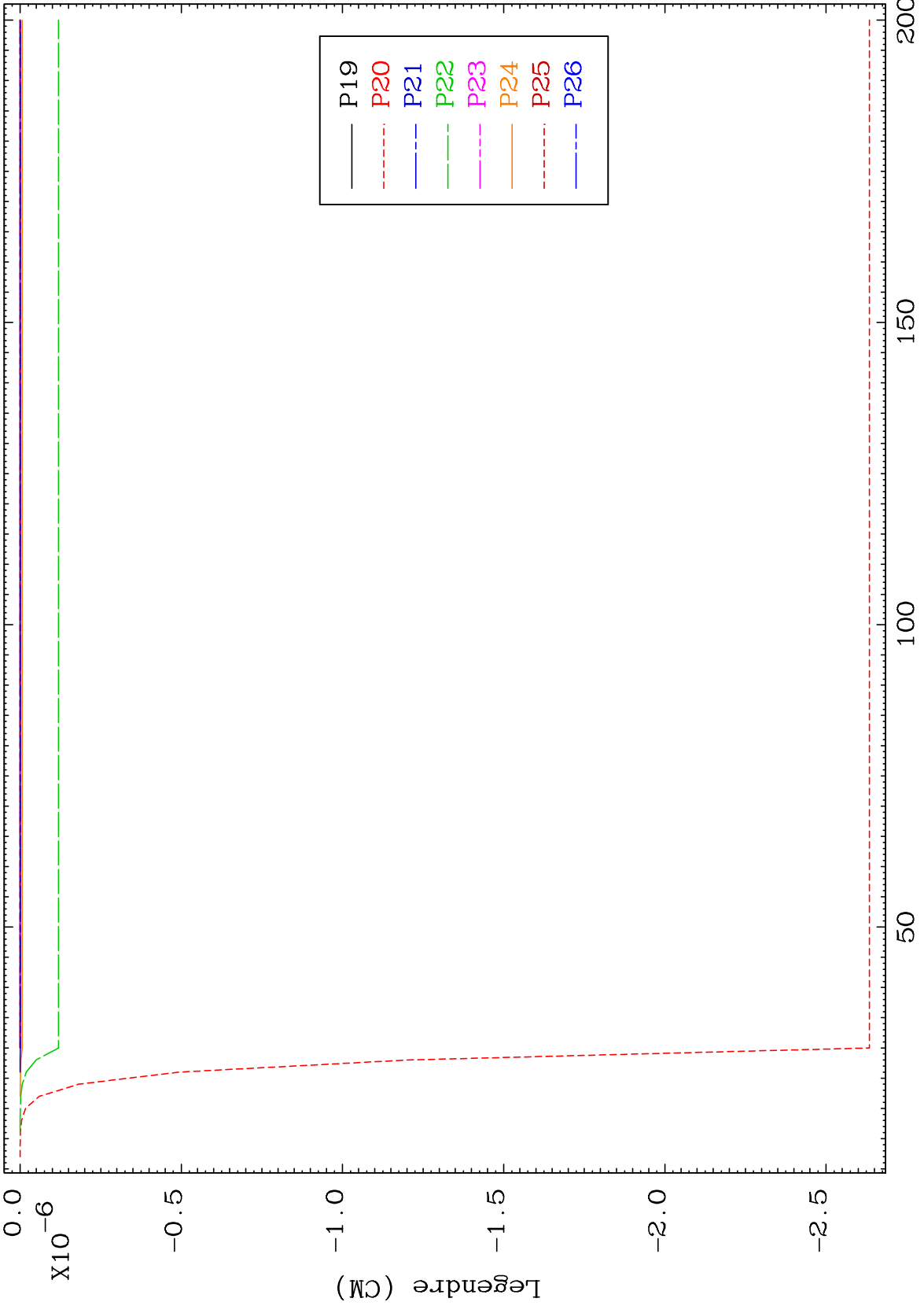


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Incident Energy (MeV)

57-La-140

MAT 5731 MT= 51 (n,n') Level Legendre Coefficients 57-La-140

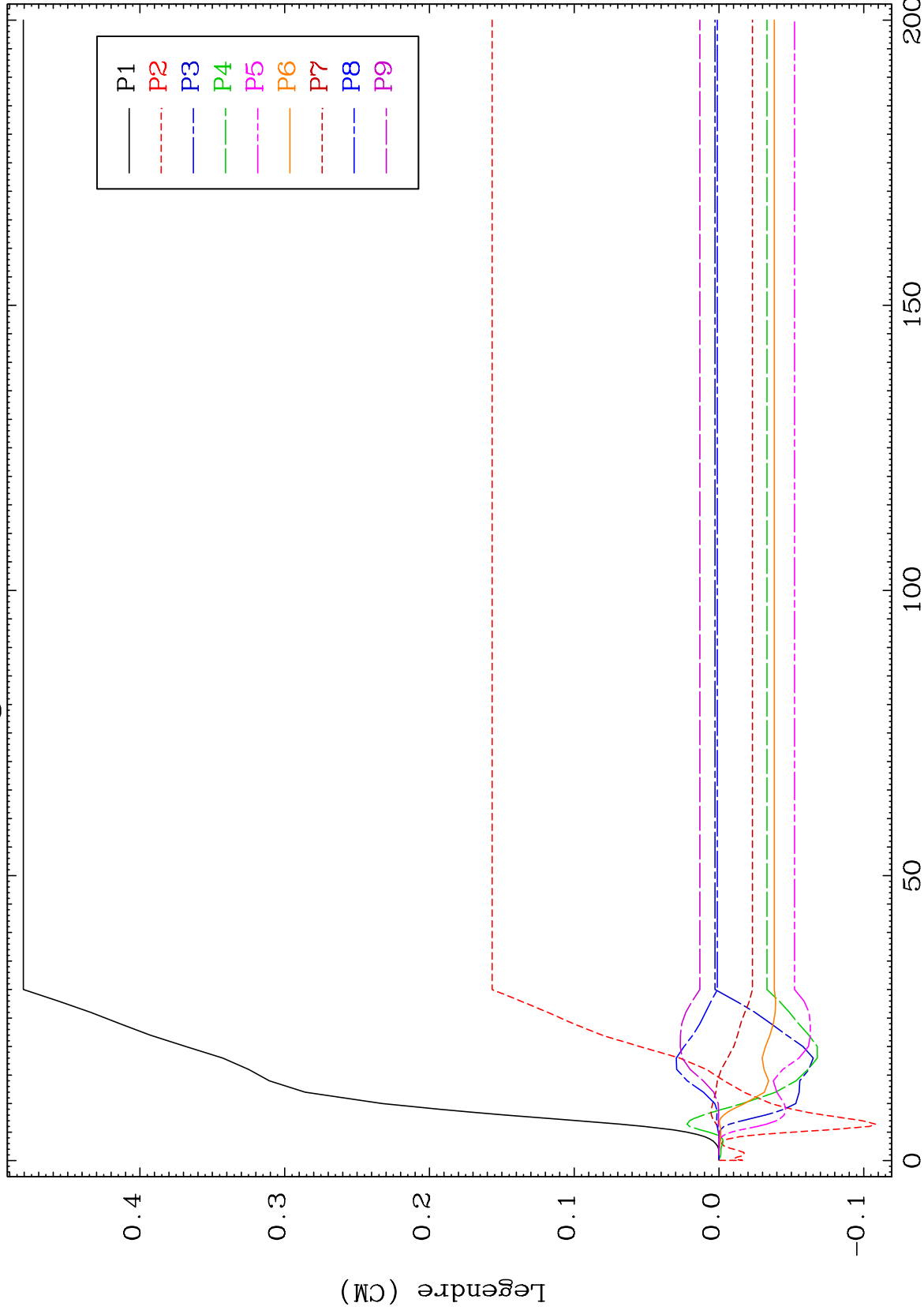


22 57-La-140

MAT 5731

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

57-La-140



23

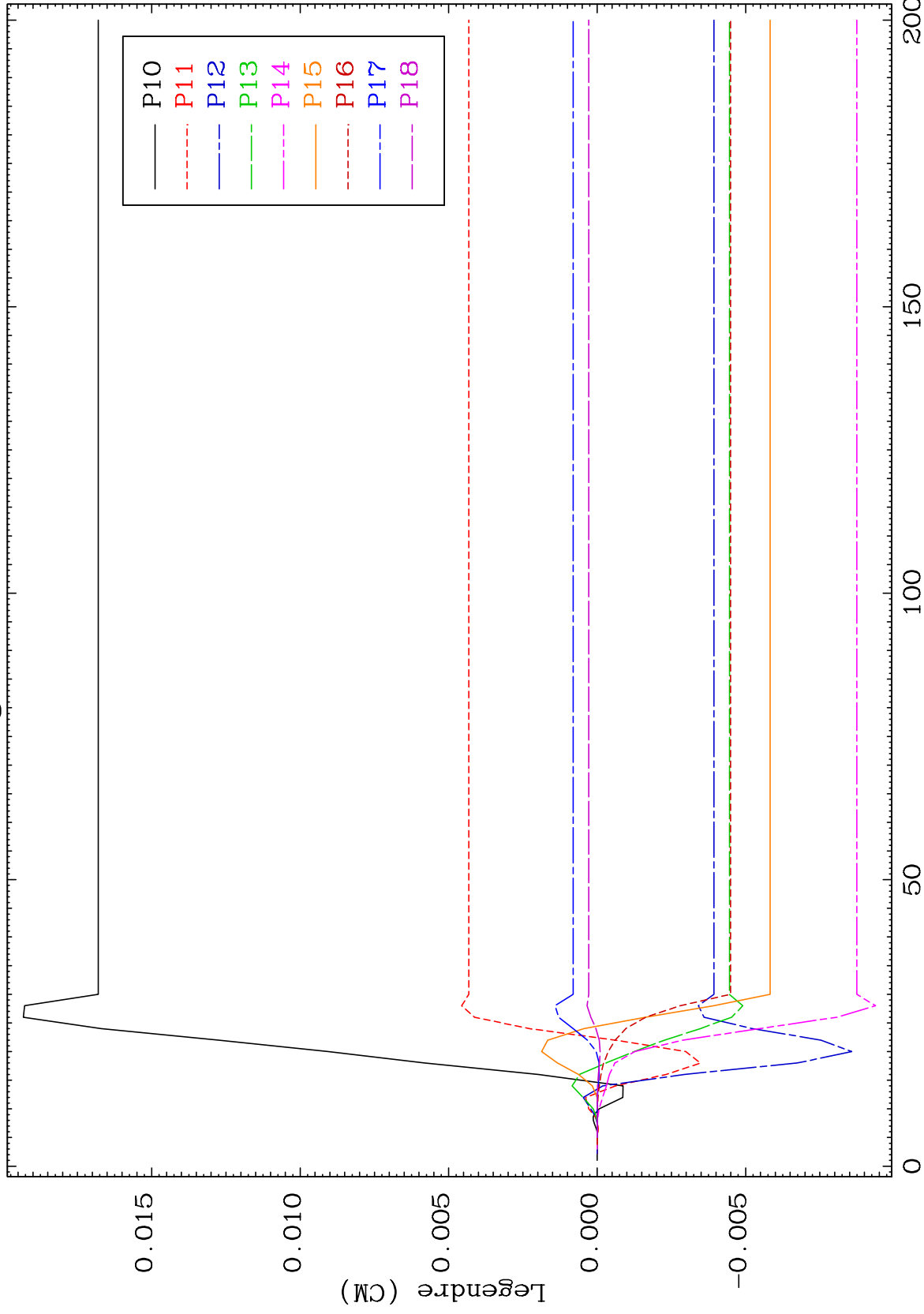
Incident Energy (MeV)

57-La-140

MAT 5731

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

57-La-140



24

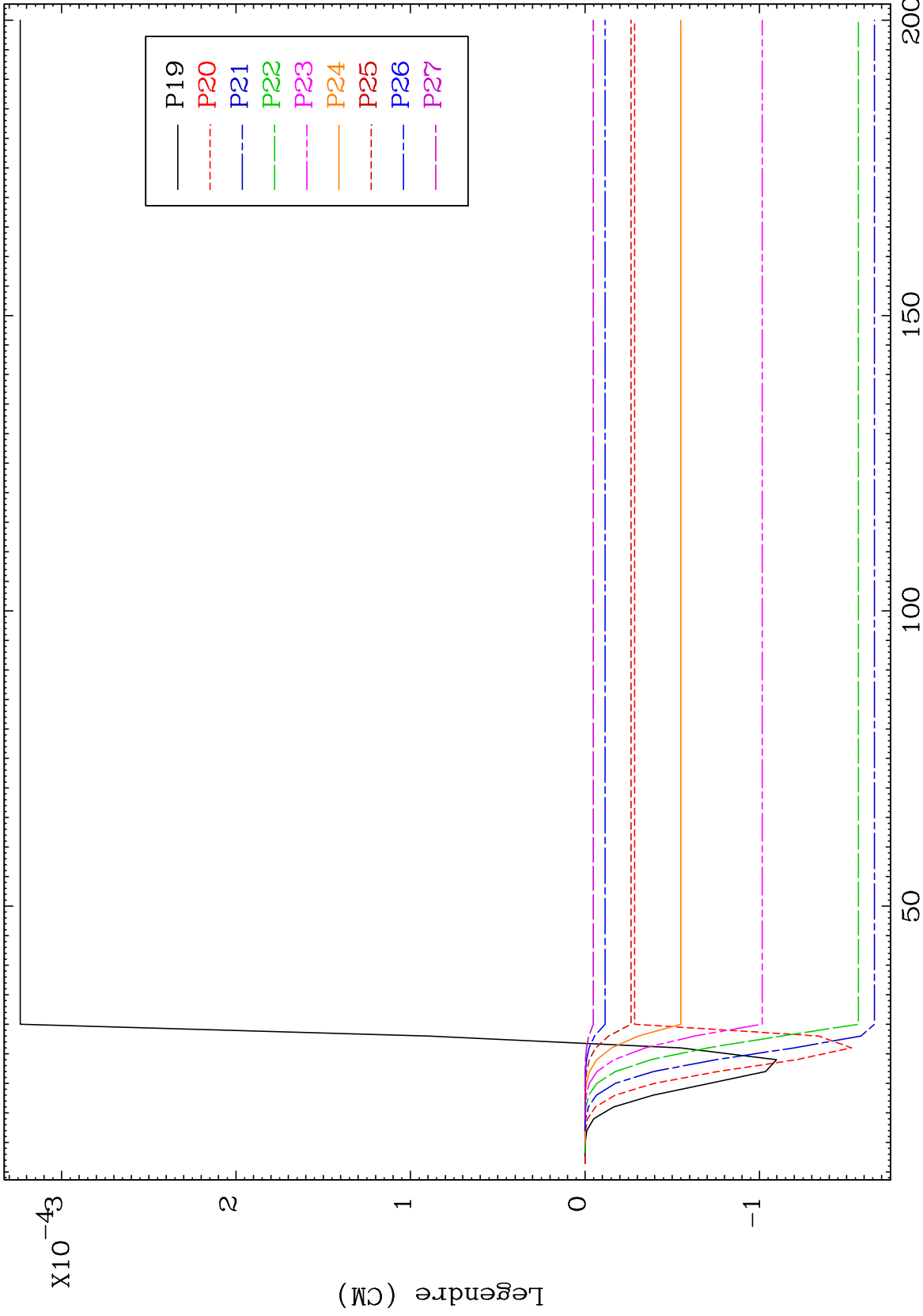
Incident Energy (MeV)

57-La-140

MAT 5731

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

57-La-140



25

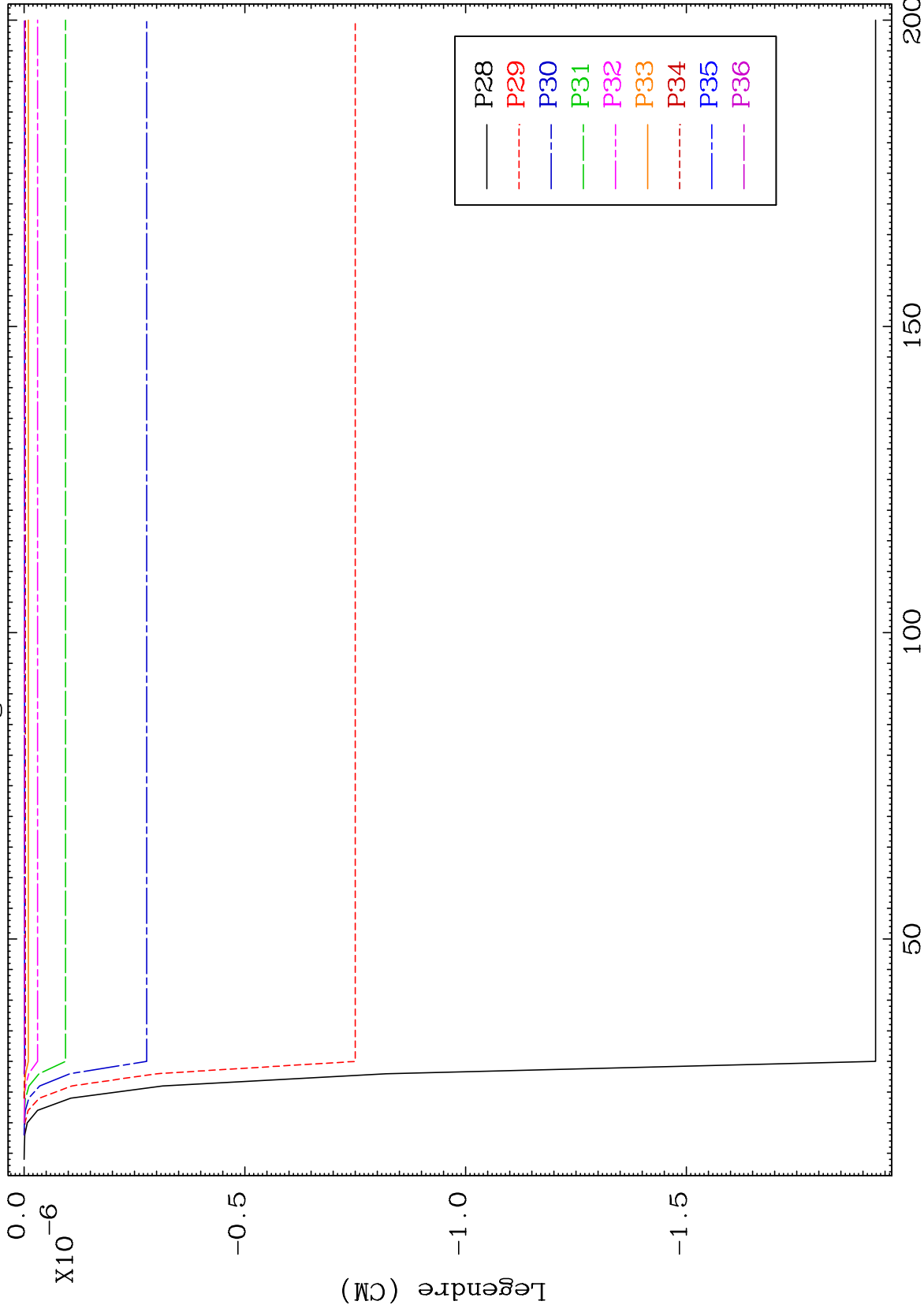
Incident Energy (MeV)

57-La-140

MAT 5731

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

57-La-140



57-La-140

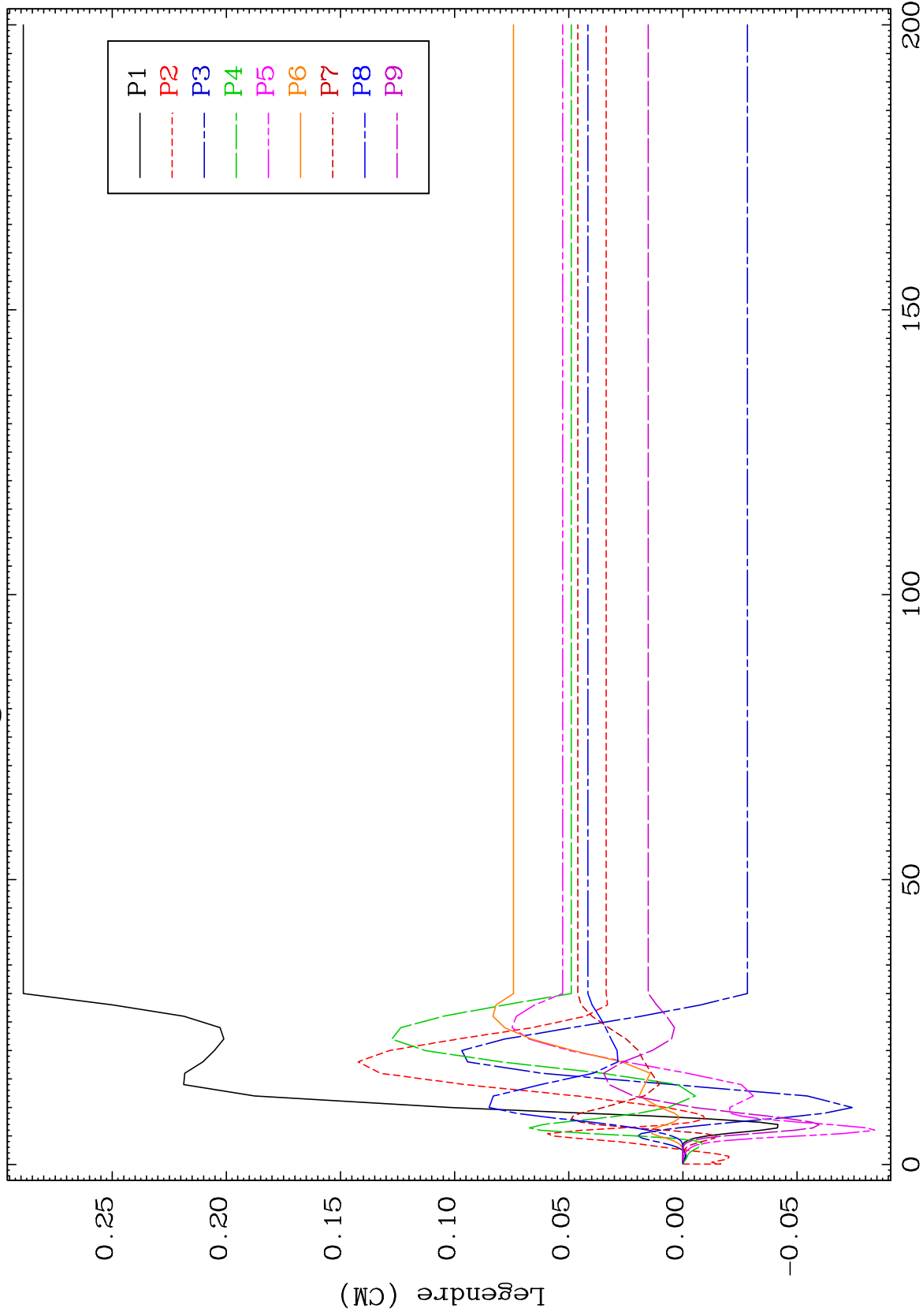
Incident Energy (MeV)

26

MAT 5731

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

57-La-140

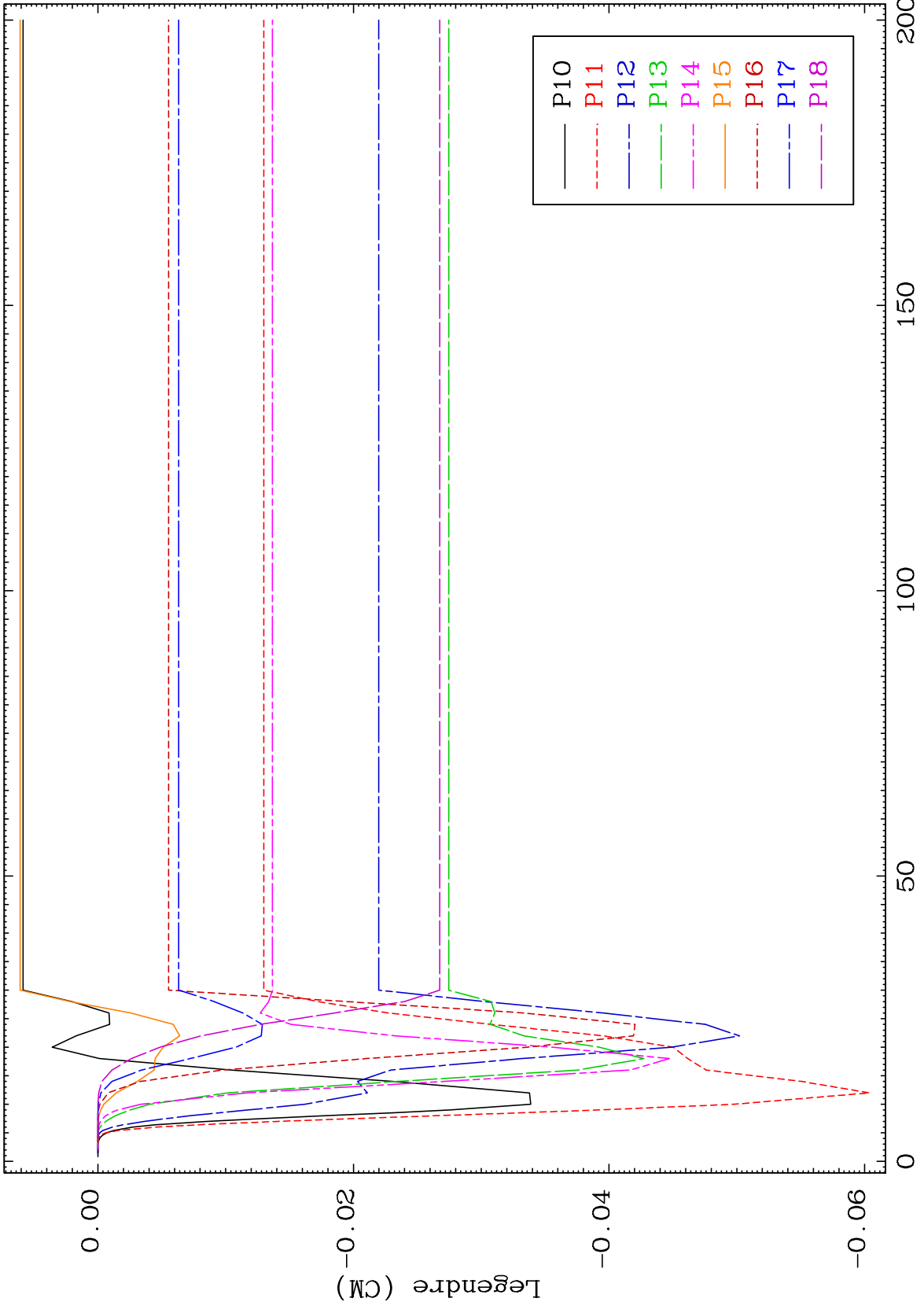


27

Incident Energy (MeV)

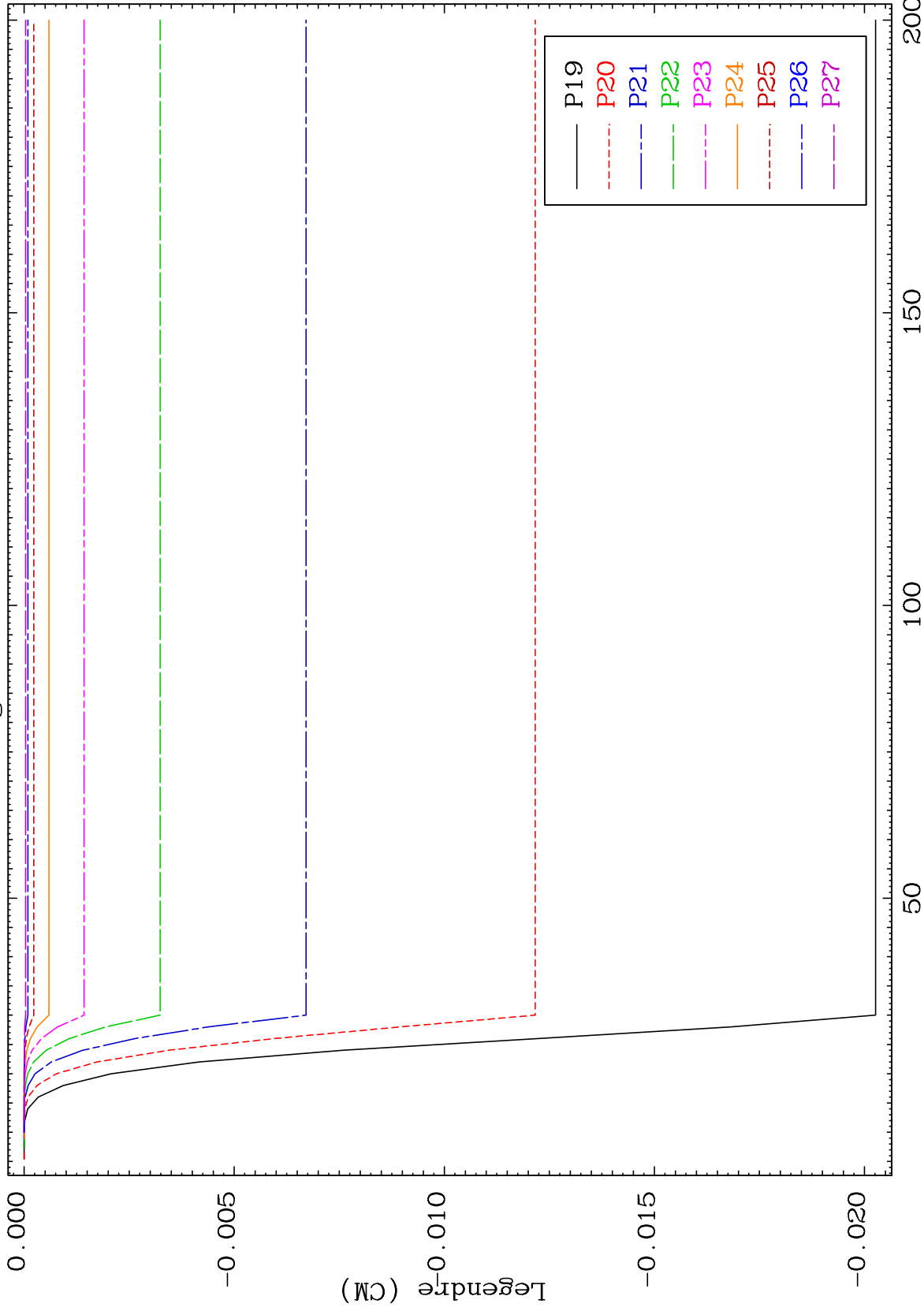
57-La-140

MAT 5731 MT= 53 (n,n') Level Legendre Coefficients 57-La-140



28 57-La-140

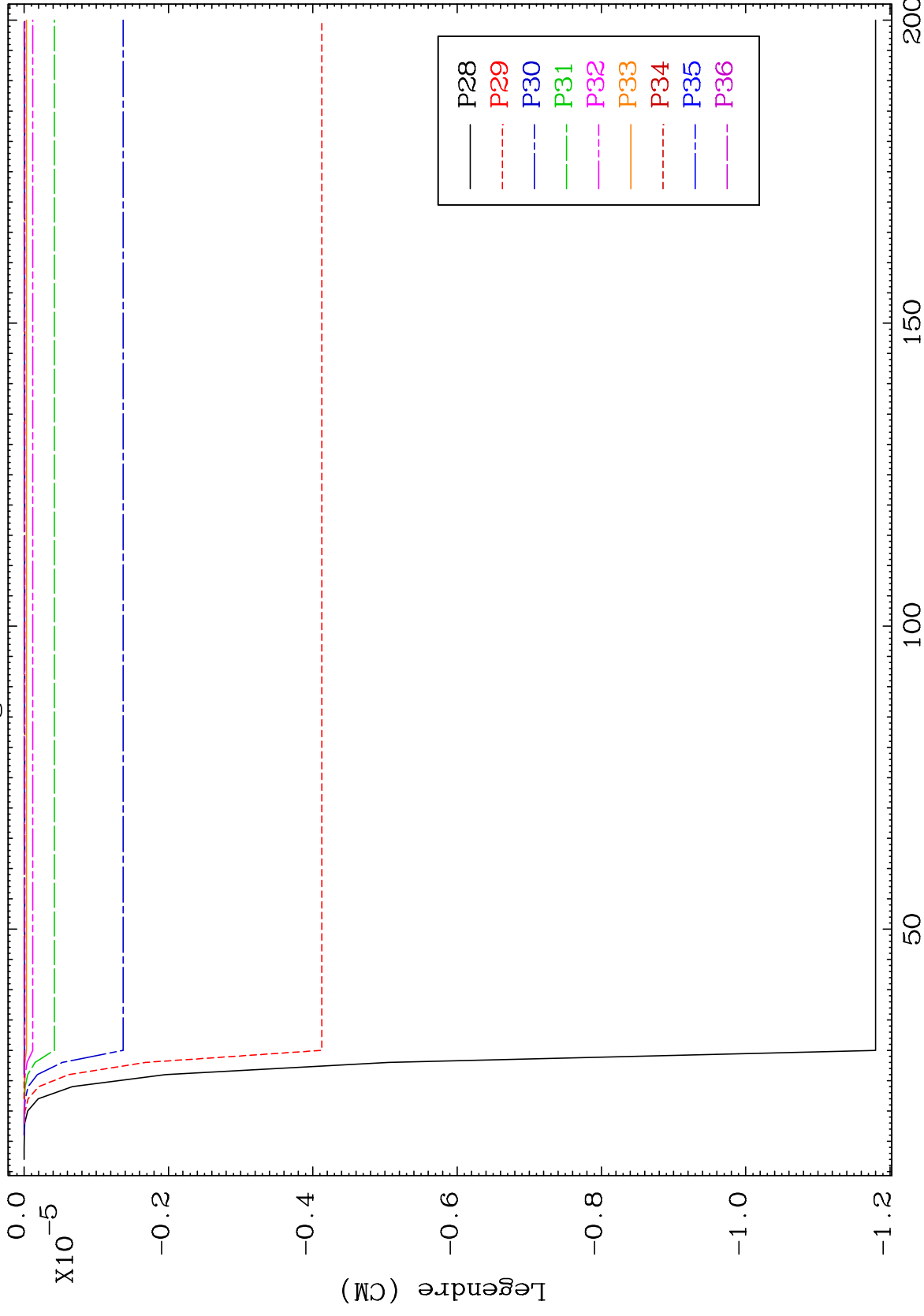
MAT 5731 MT= 53 (n,n') Level Legendre Coefficients 57-La-140



MAT 5731

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

57-La-140



57-La-140

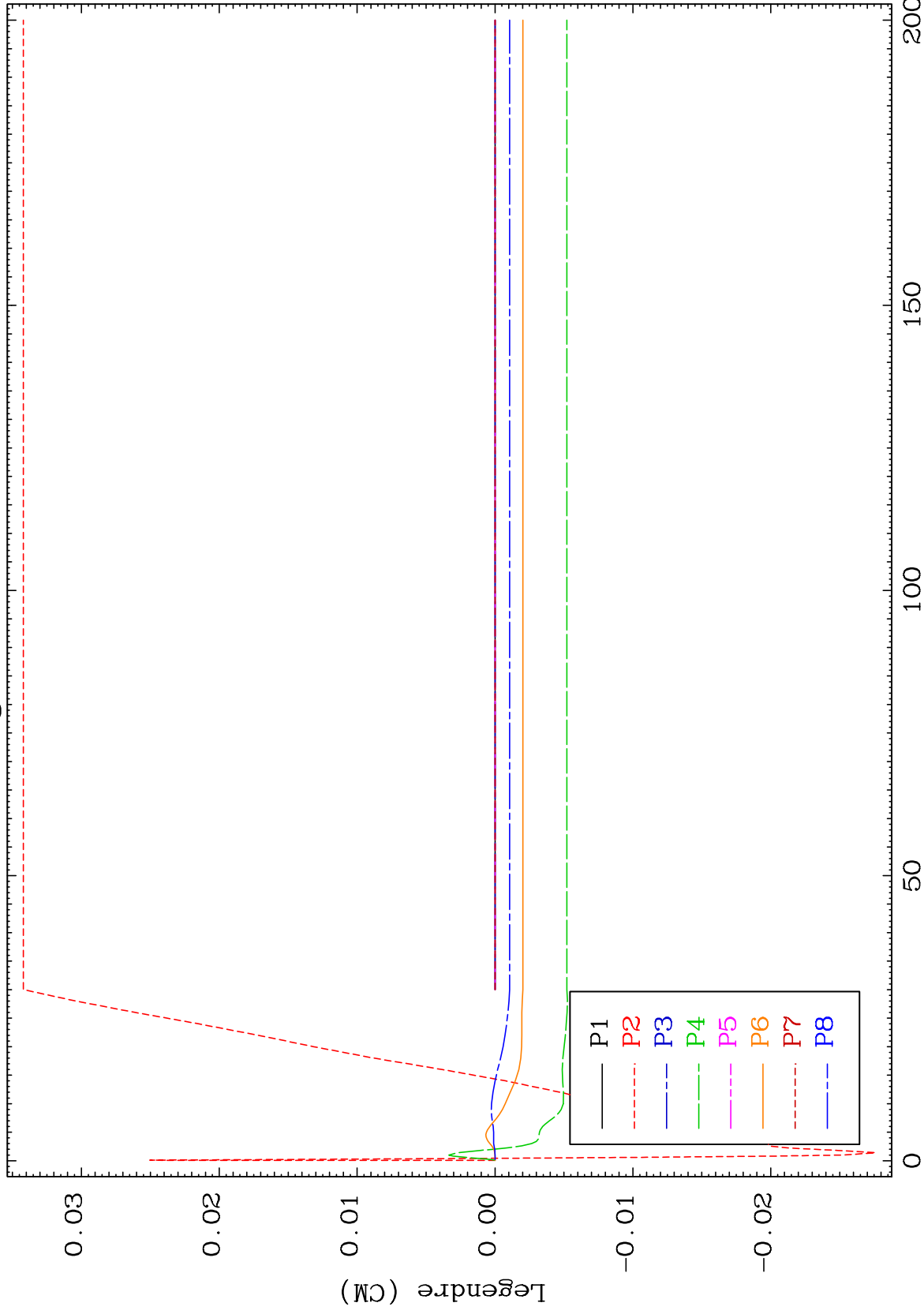
Incident Energy (MeV)

30

MAT 5731

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

57-La-140



31

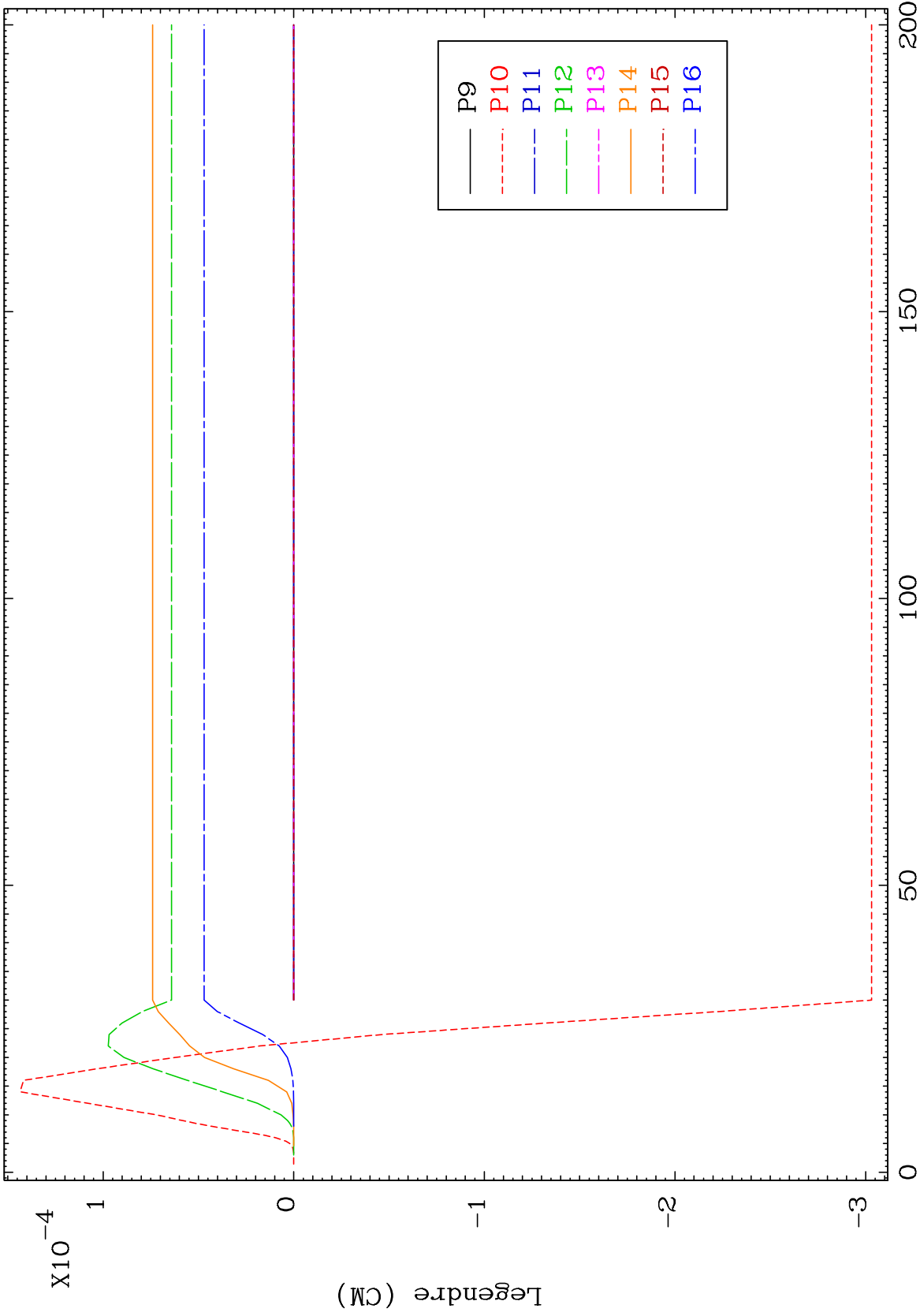
Incident Energy (MeV)

57-La-140

MAT 5731

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

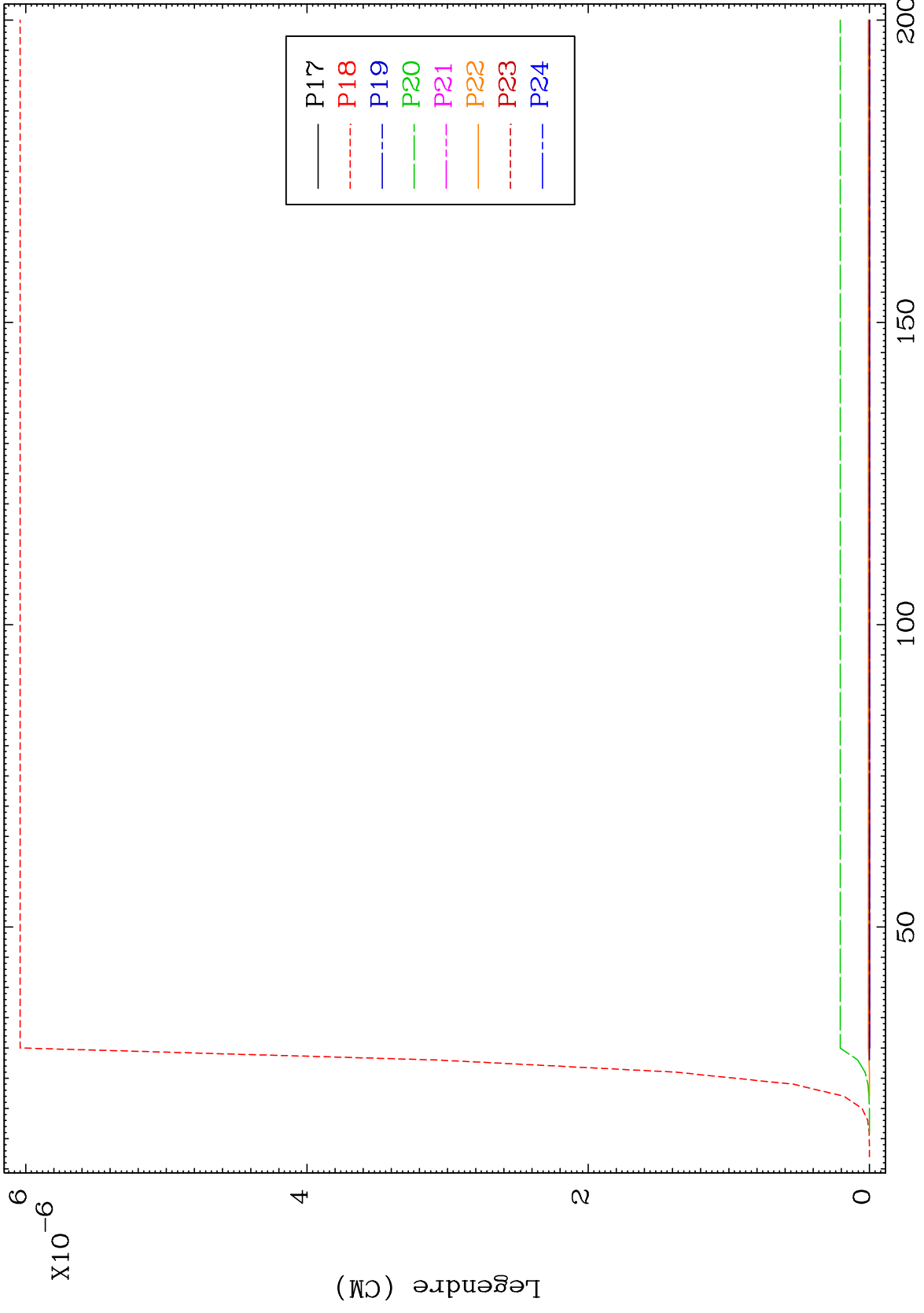
57-La-140



32

57-La-140

MAT 5731 MT= 54 (n,n') Level Legendre Coefficients 57-La-140

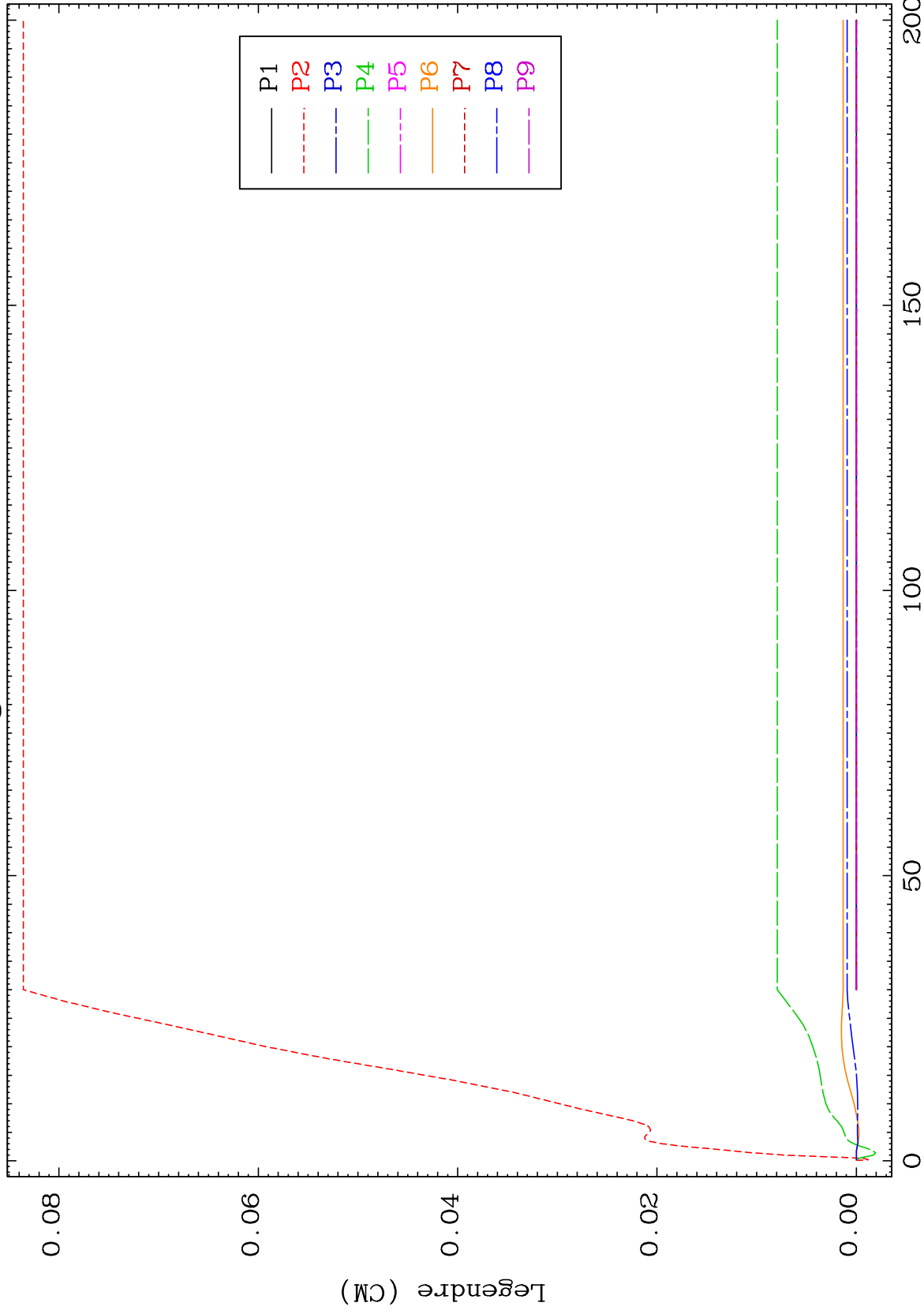


33 57-La-140

MAT 5731

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

57-La-140



34

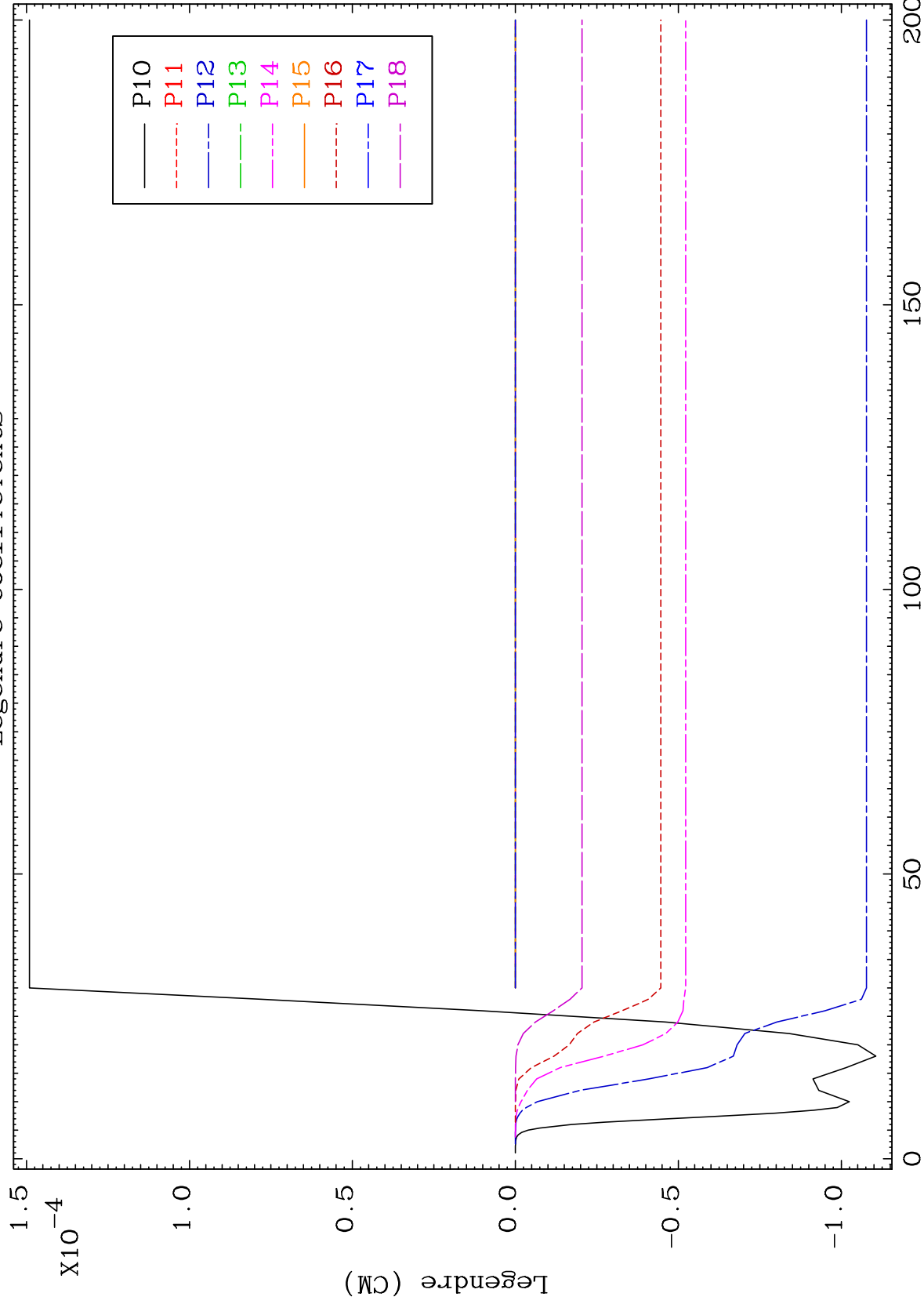
Incident Energy (MeV)

57-La-140

MAT 5731

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

57-La-140

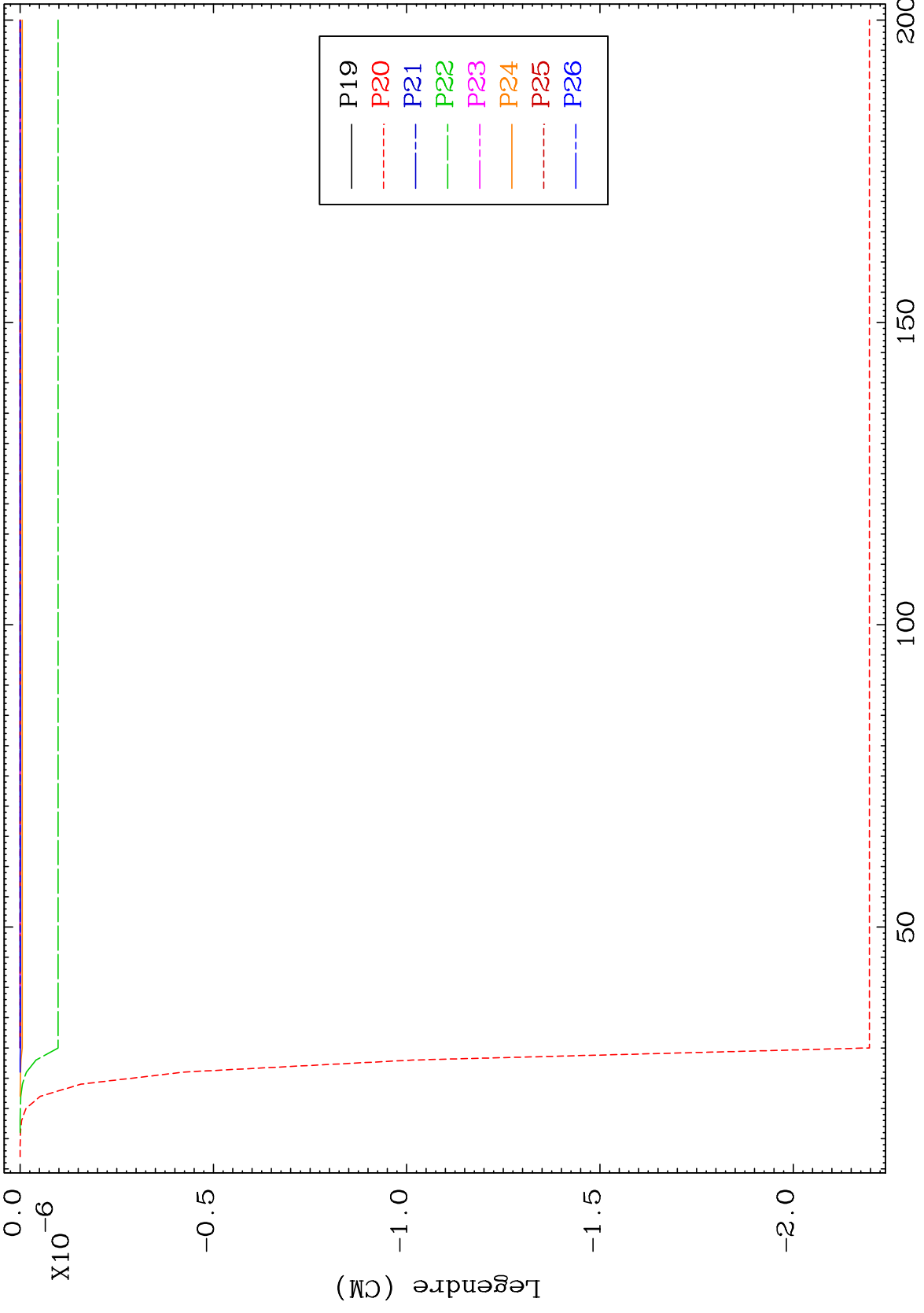


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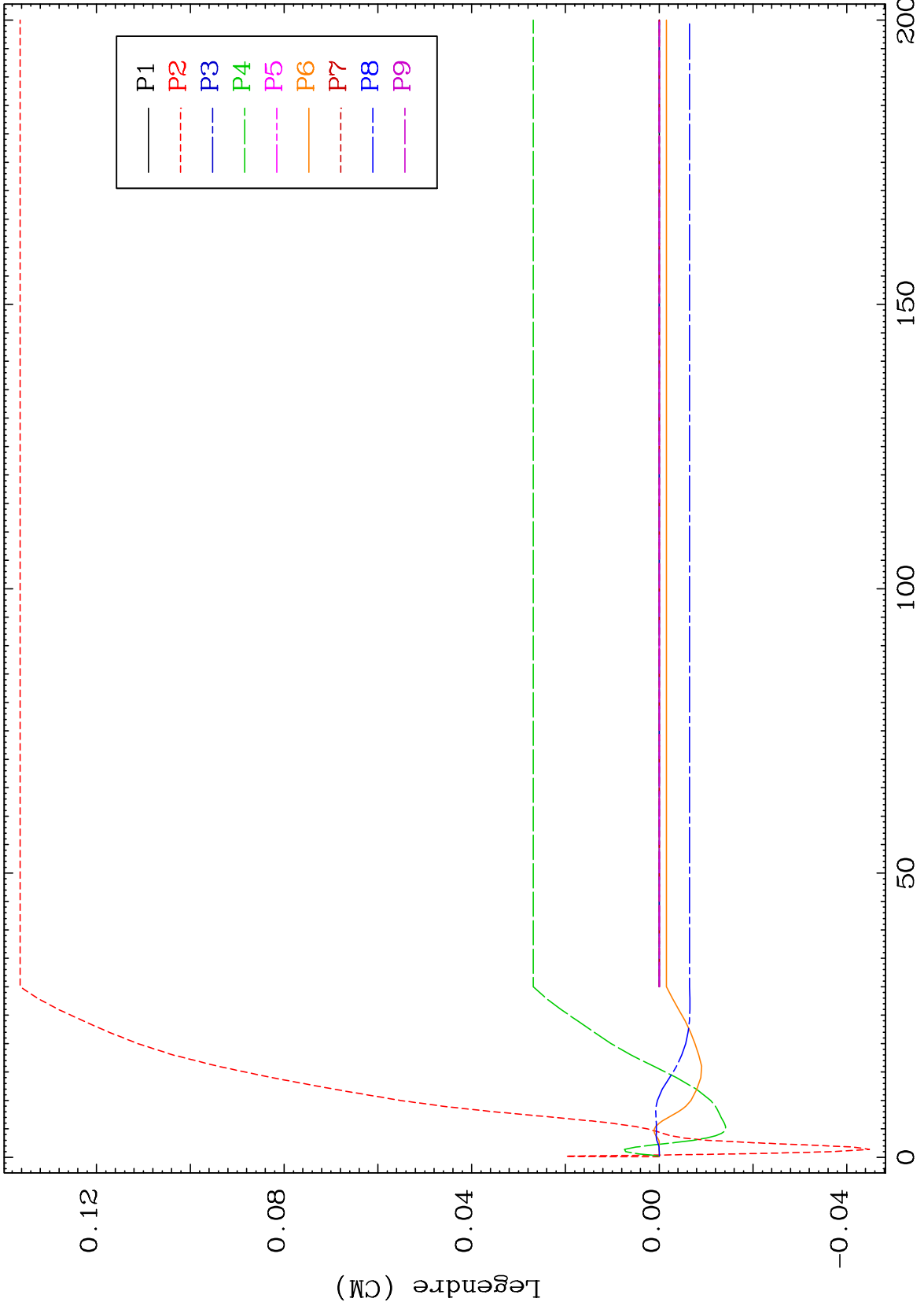
Incident Energy (MeV)

57-La-140

MAT 5731 MT= 55 (n,n') Level Legendre Coefficients 57-La-140



MAT 5731 MT= 56 (n,n') Level Legendre Coefficients 57-La-140

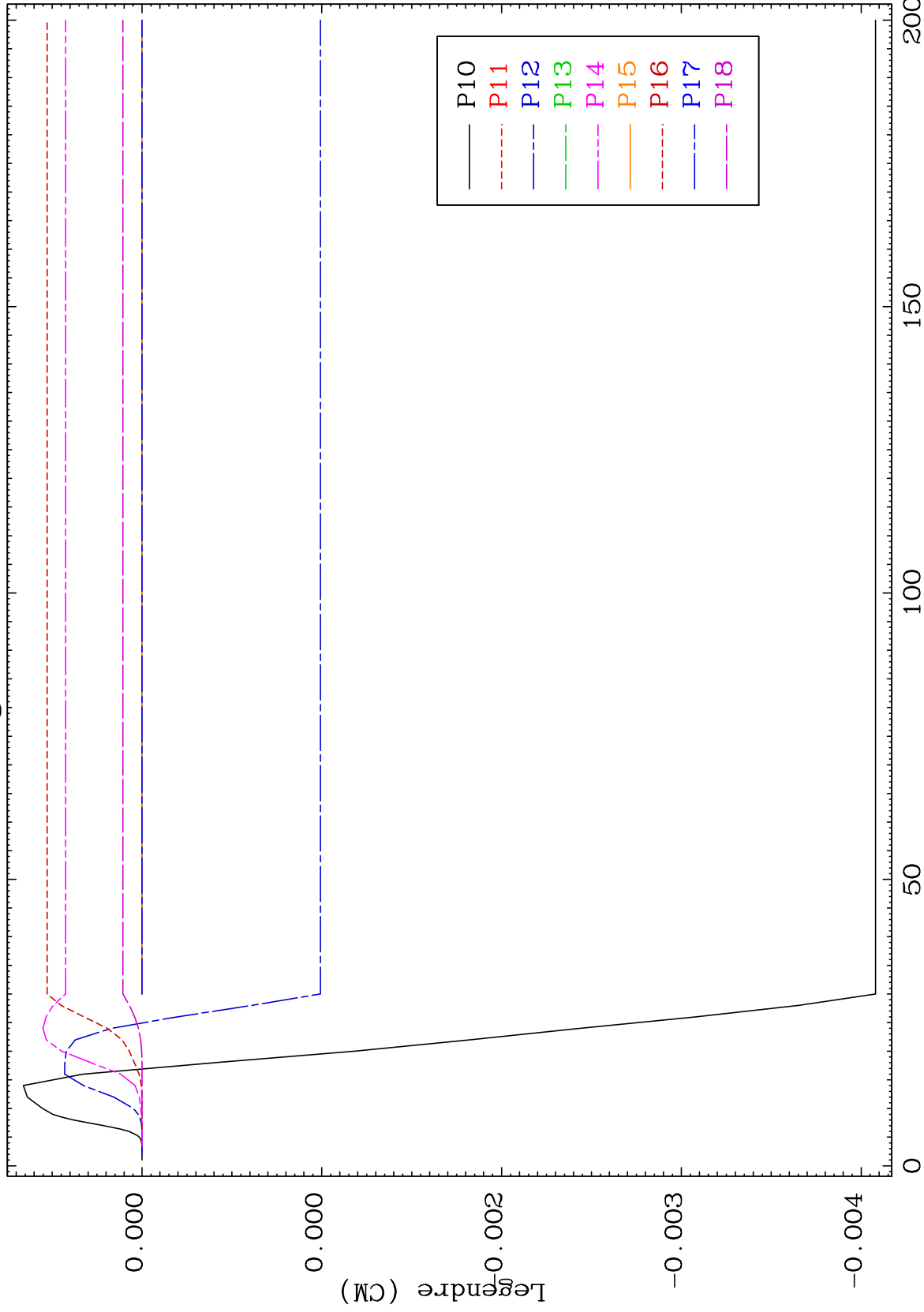


37 57-La-140

MAT 5731

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

57-La-140

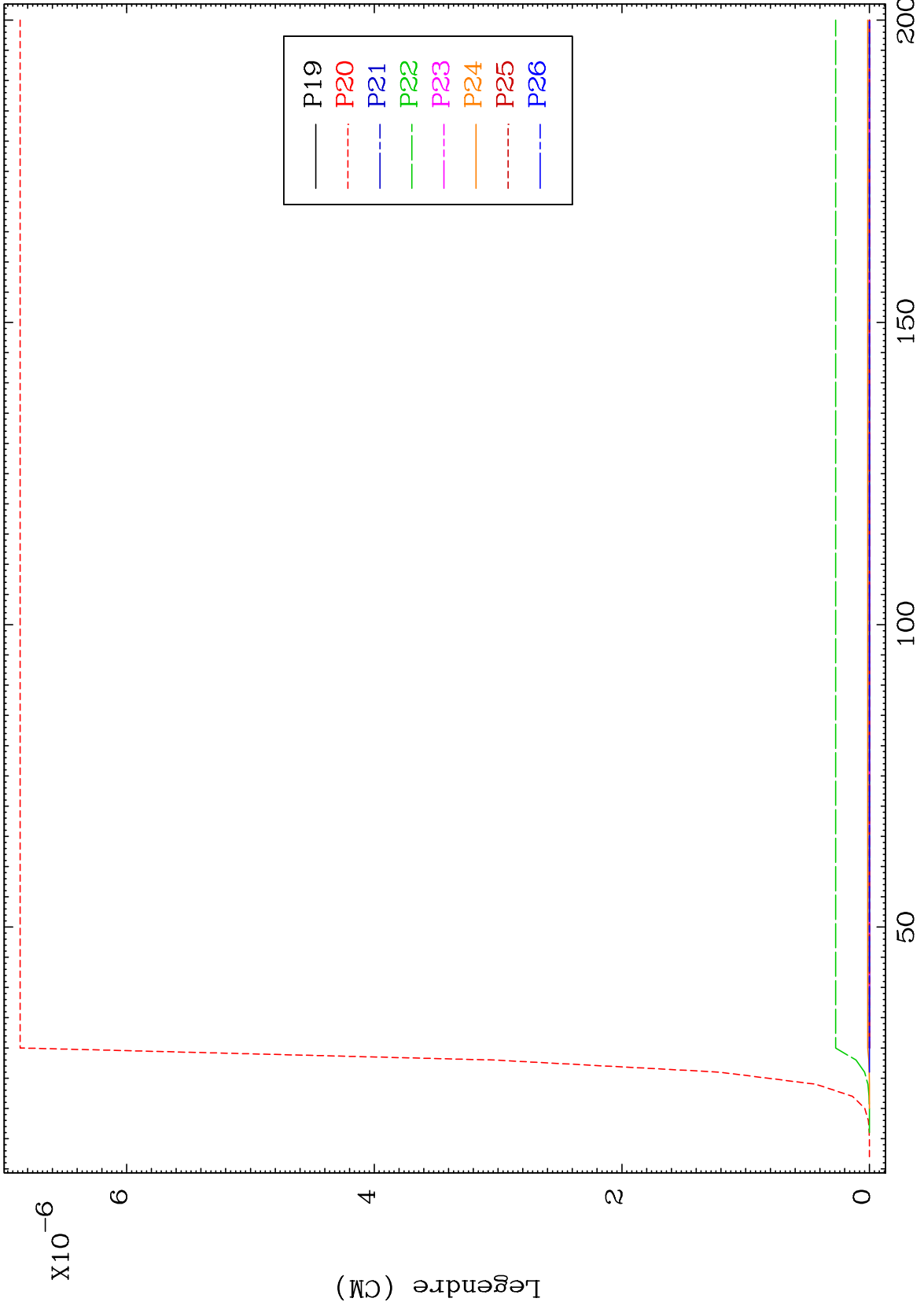


38

Incident Energy (MeV)

57-La-140

MAT 5731 MT= 56 (n,n') Level Legendre Coefficients 57-La-140

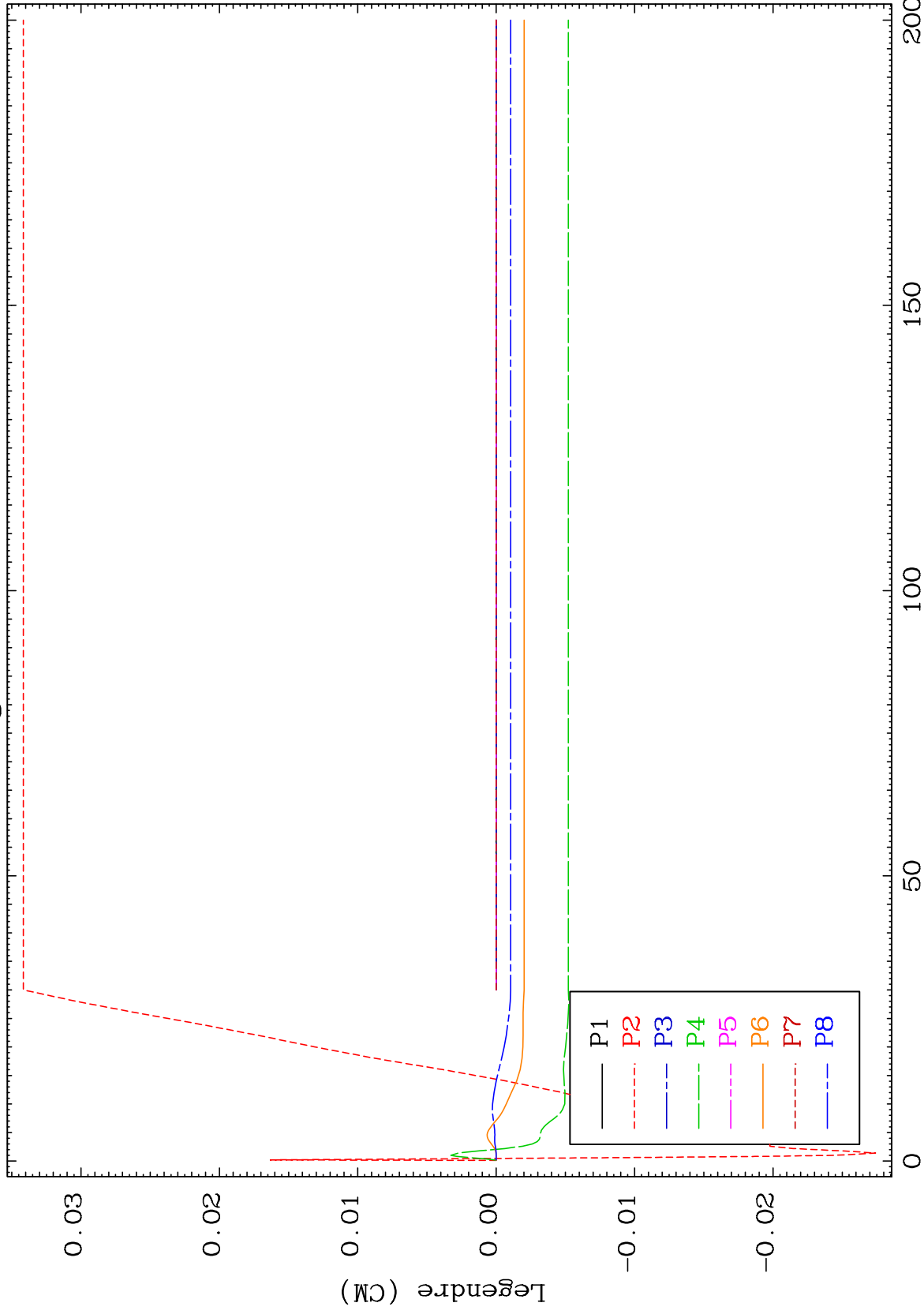


39 57-La-140

MAT 5731

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

57-La-140



40

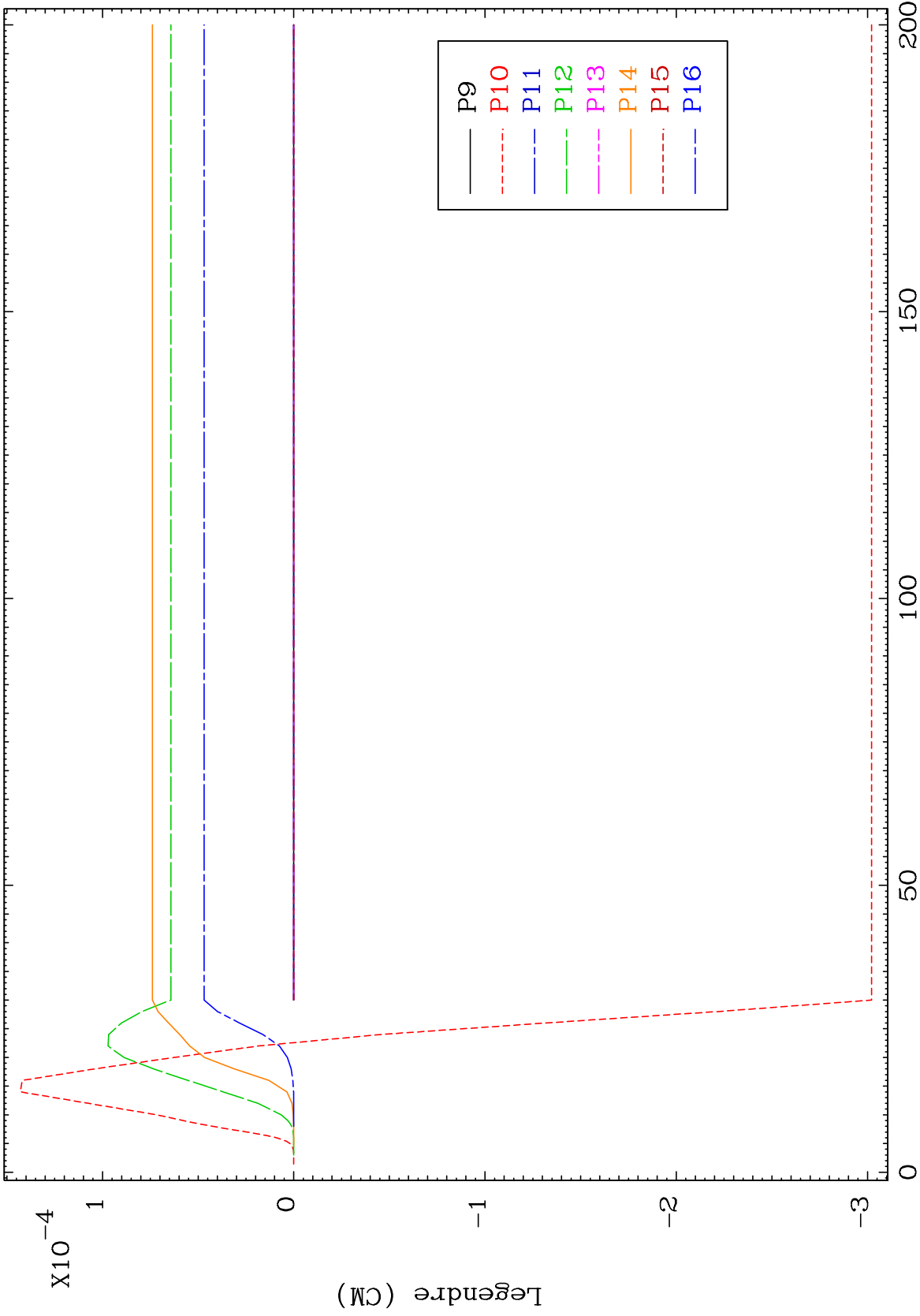
Incident Energy (MeV)

57-La-140

MAT 5731

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

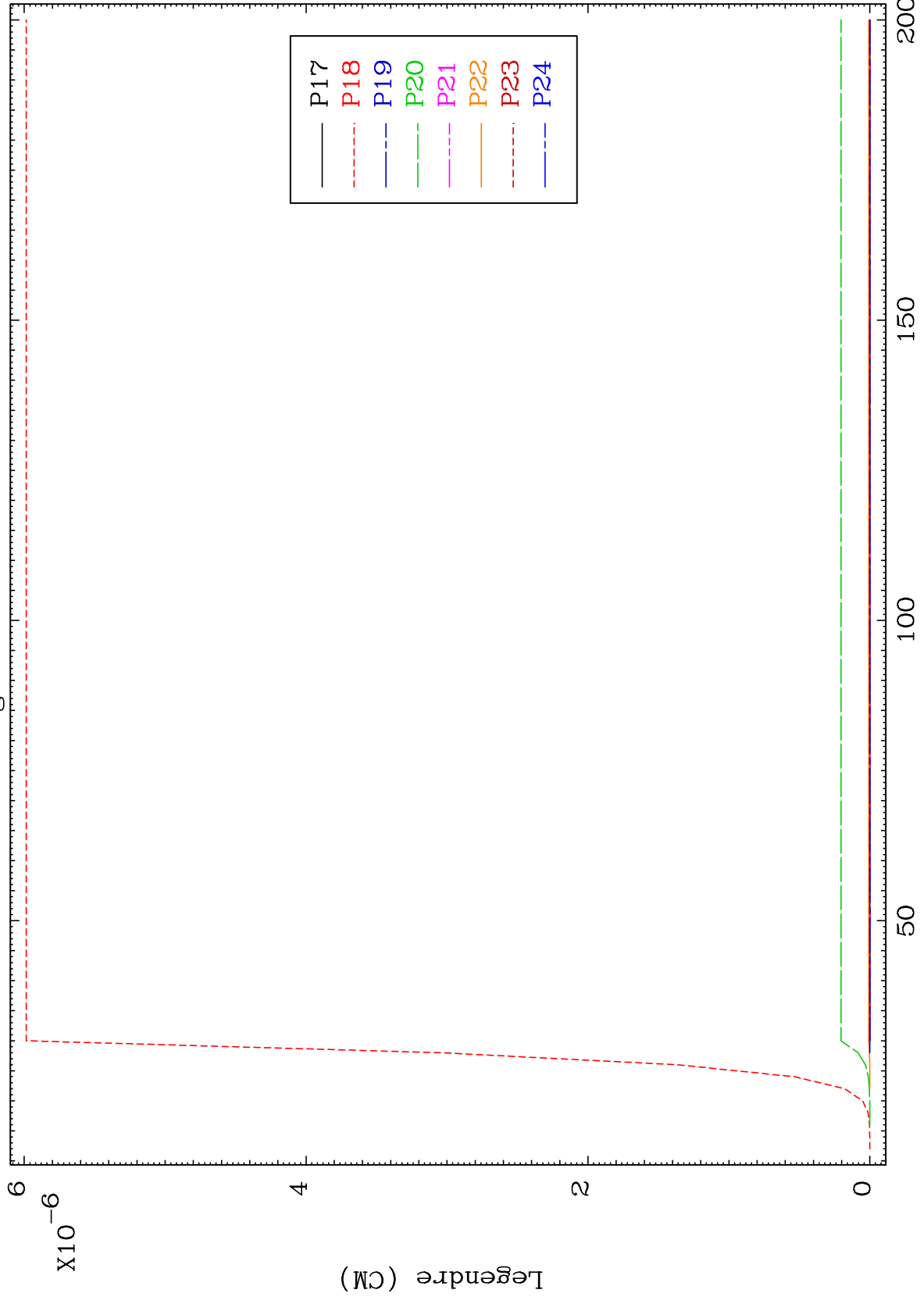
57-La-140



41

57-La-140

MAT 5731 MT= 57 (n,n') Level Legendre Coefficients 57-La-140

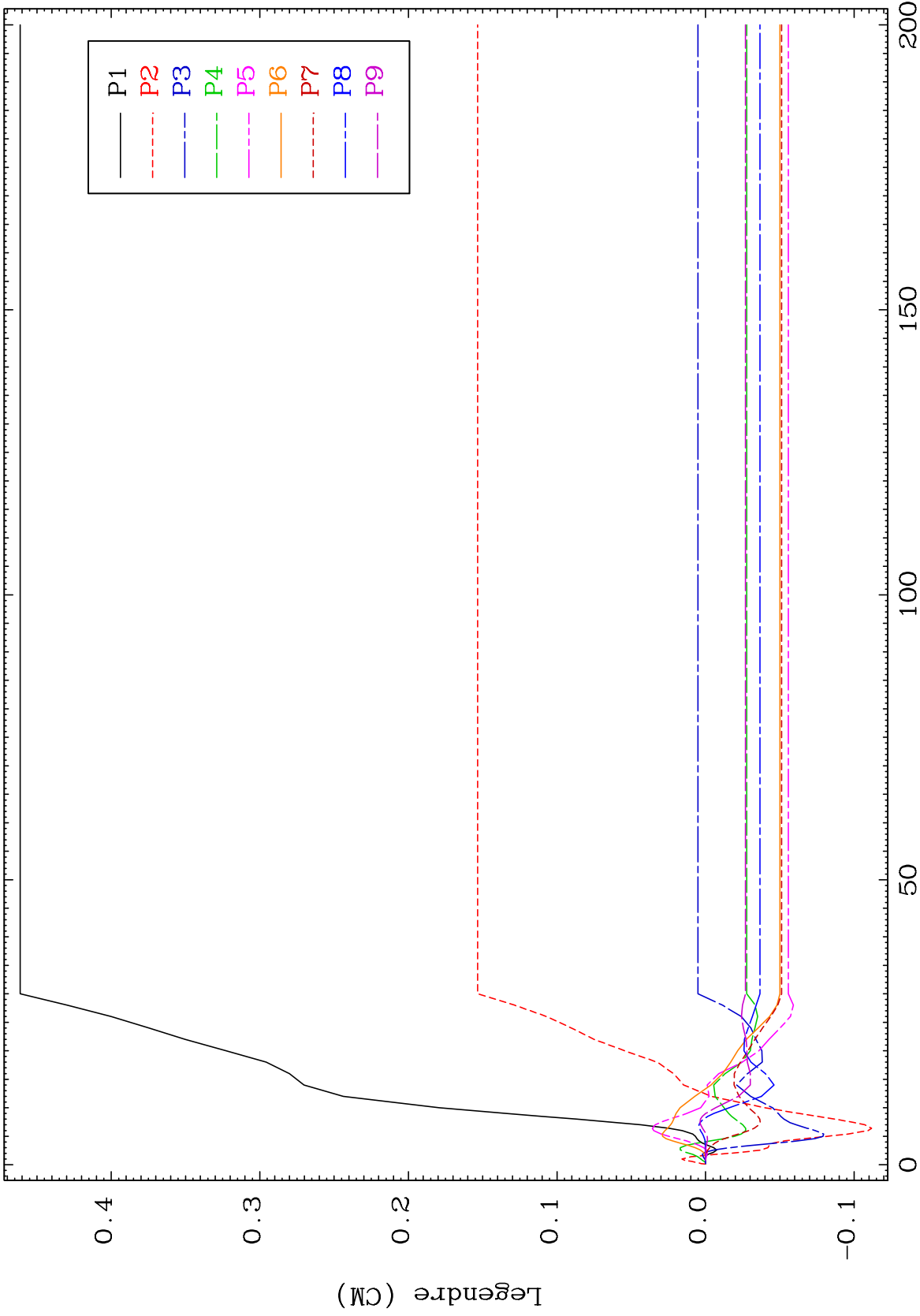


42 Incident Energy (MeV) 57-La-140

MAT 5731

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

57-La-140



43

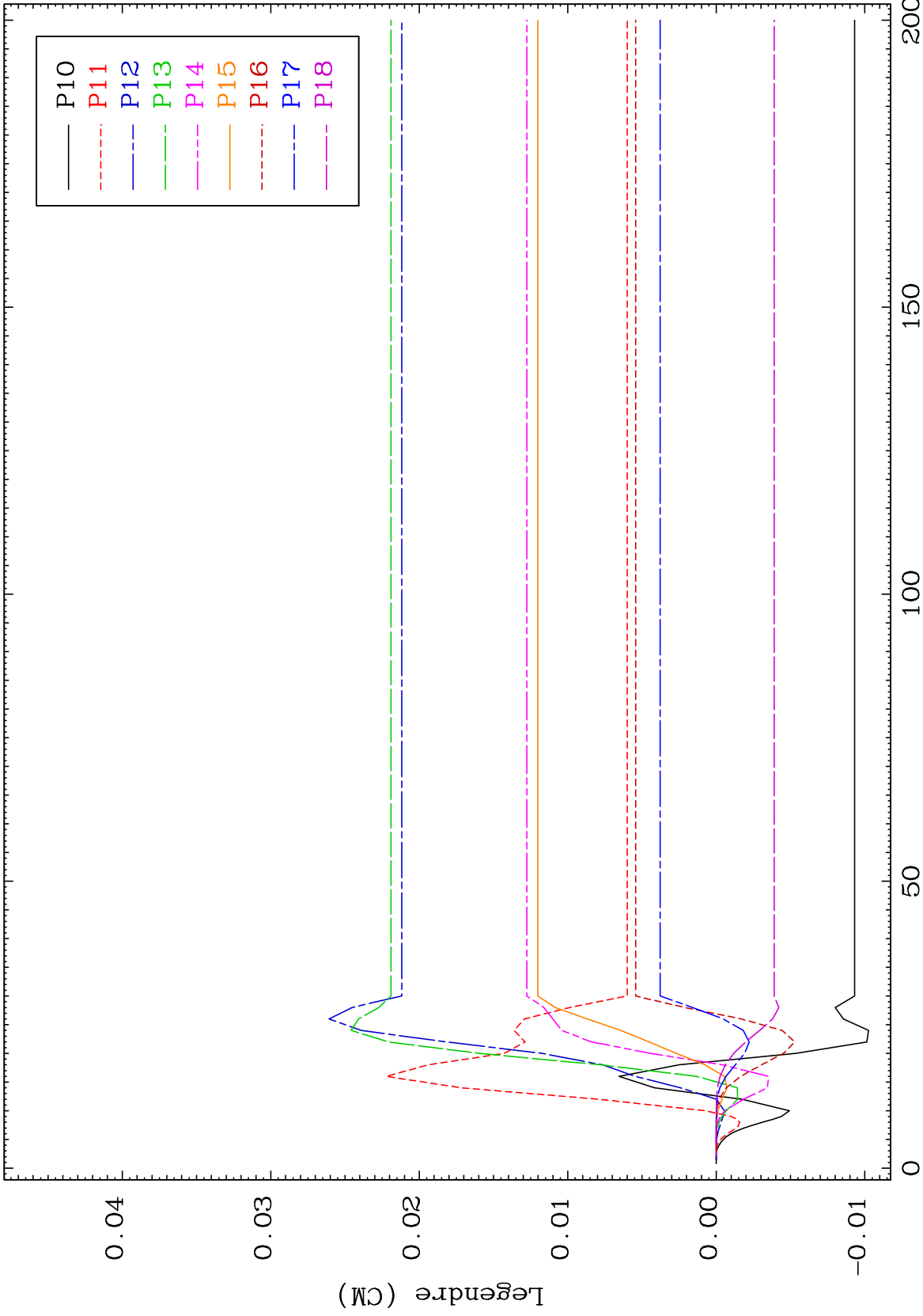
Incident Energy (MeV)

57-La-140

MAT 5731

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

57-La-140



44

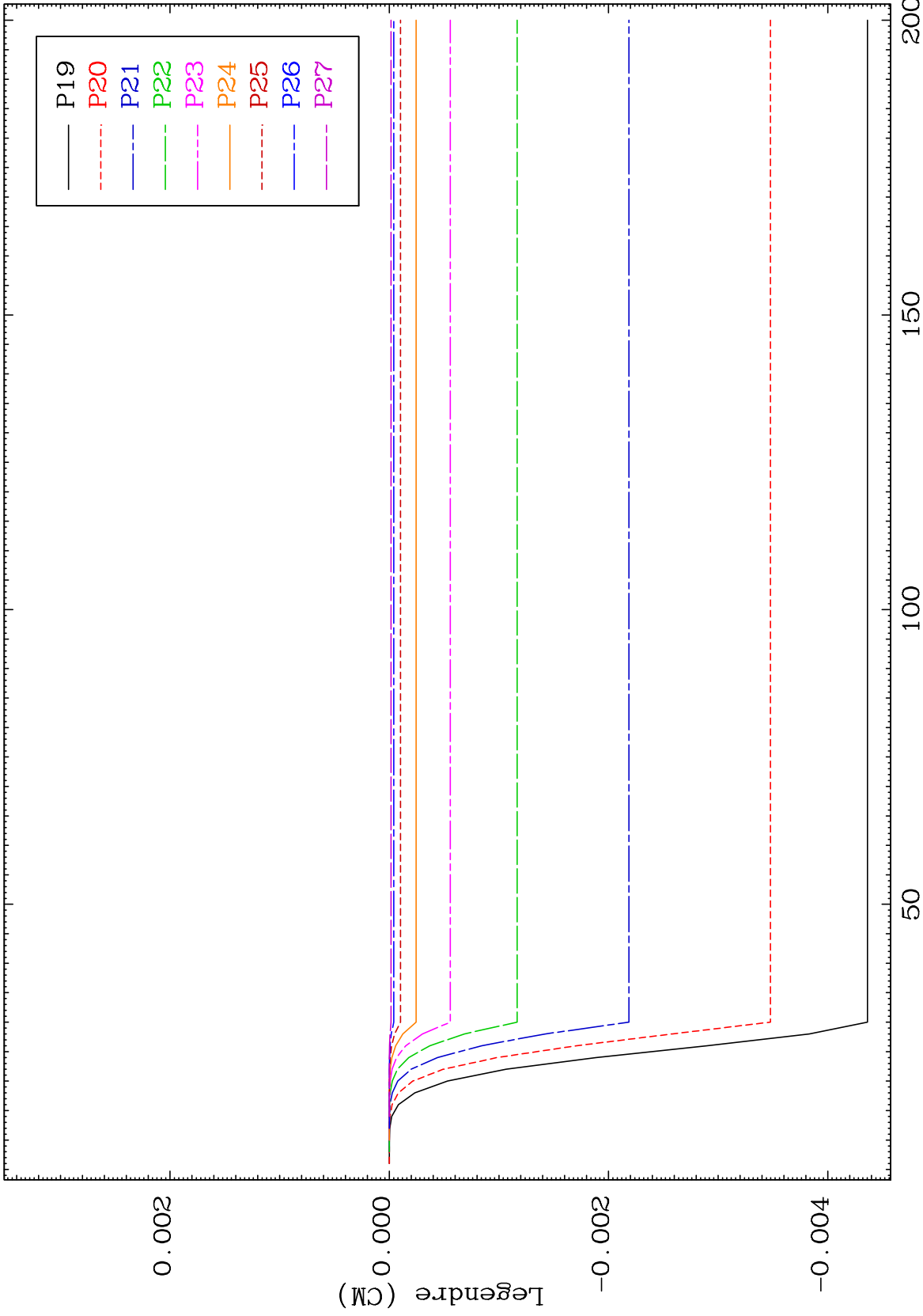
Incident Energy (MeV)

57-La-140

MAT 5731

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

57-La-140

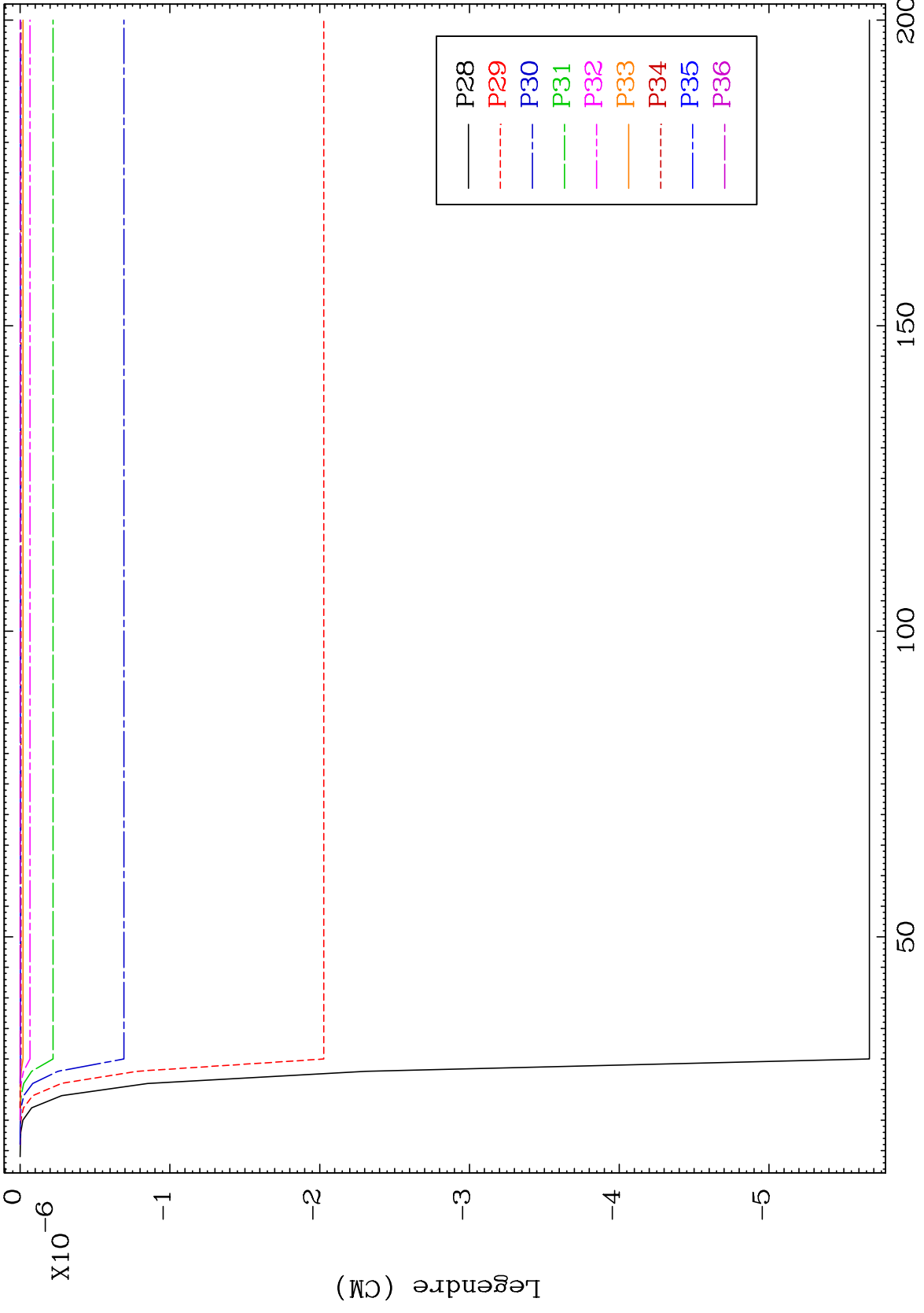


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Incident Energy (MeV)

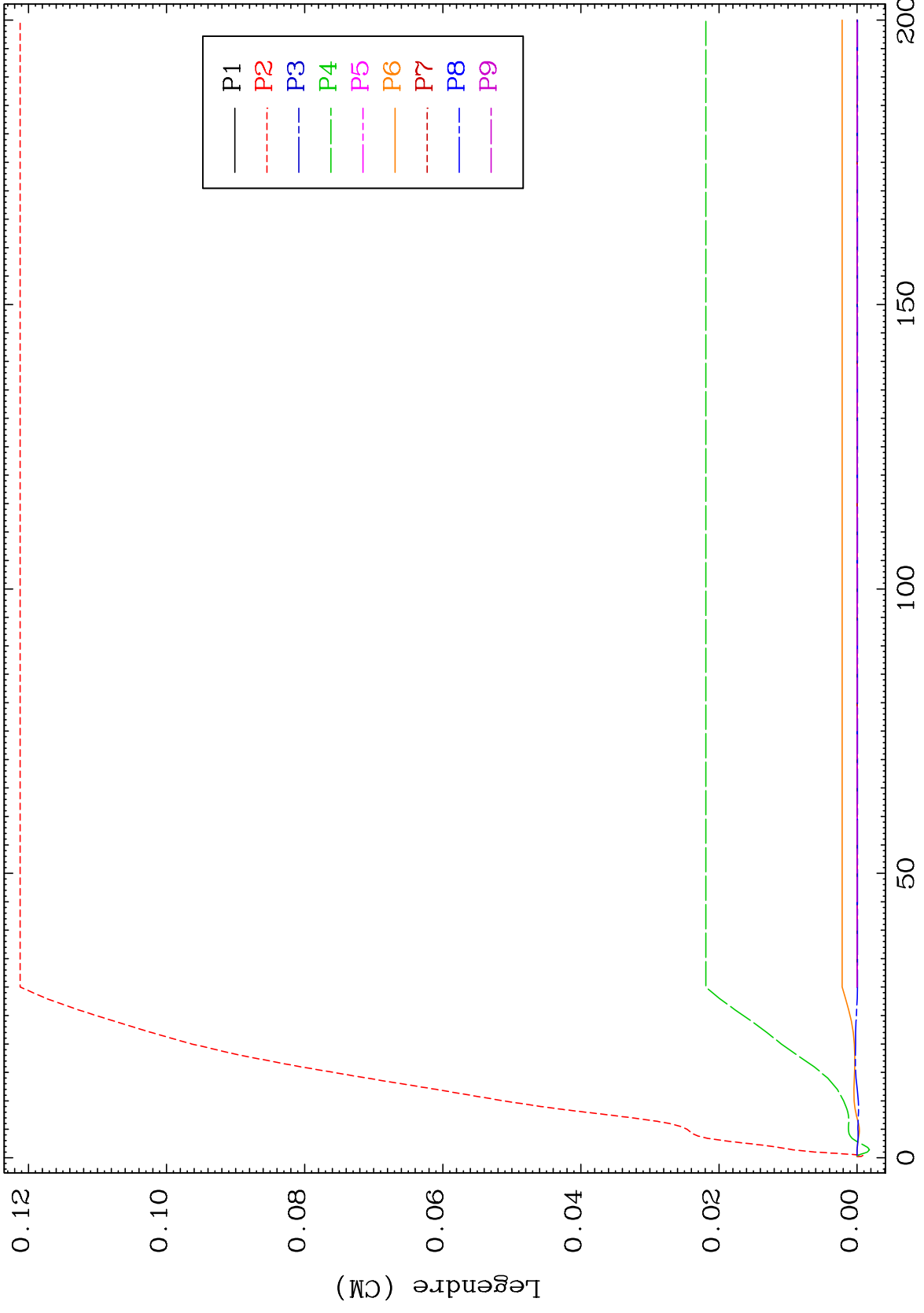
57-La-140

MAT 5731 MT= 58 (n,n') Level Legendre Coefficients 57-La-140



46 57-La-140 Incident Energy (MeV) 50 150 200

MAT 5731 MT= 59 (n,n') Level Legendre Coefficients 57-La-140

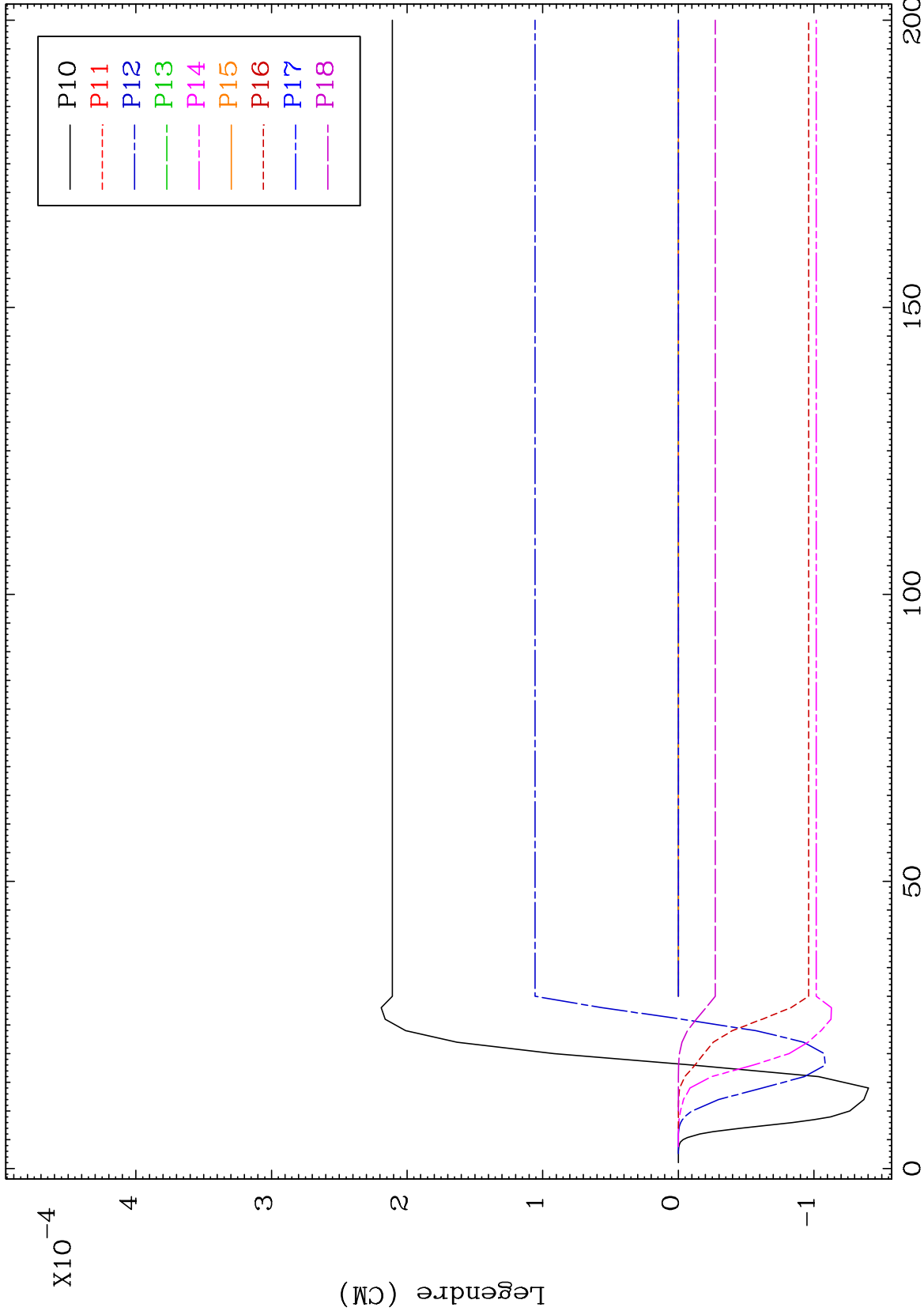


47 57-La-140

MAT 5731

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

57-La-140

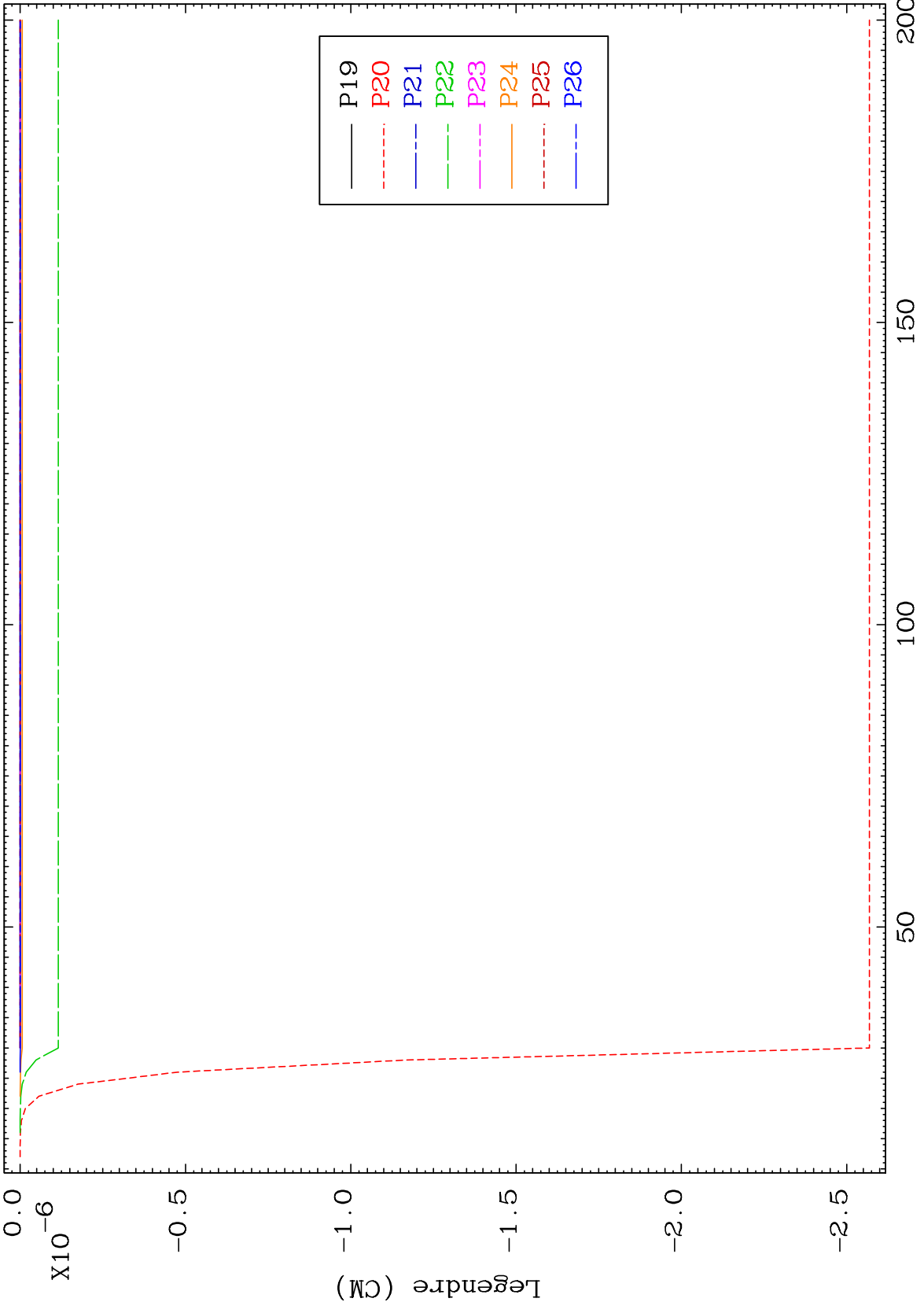


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Incident Energy (MeV)

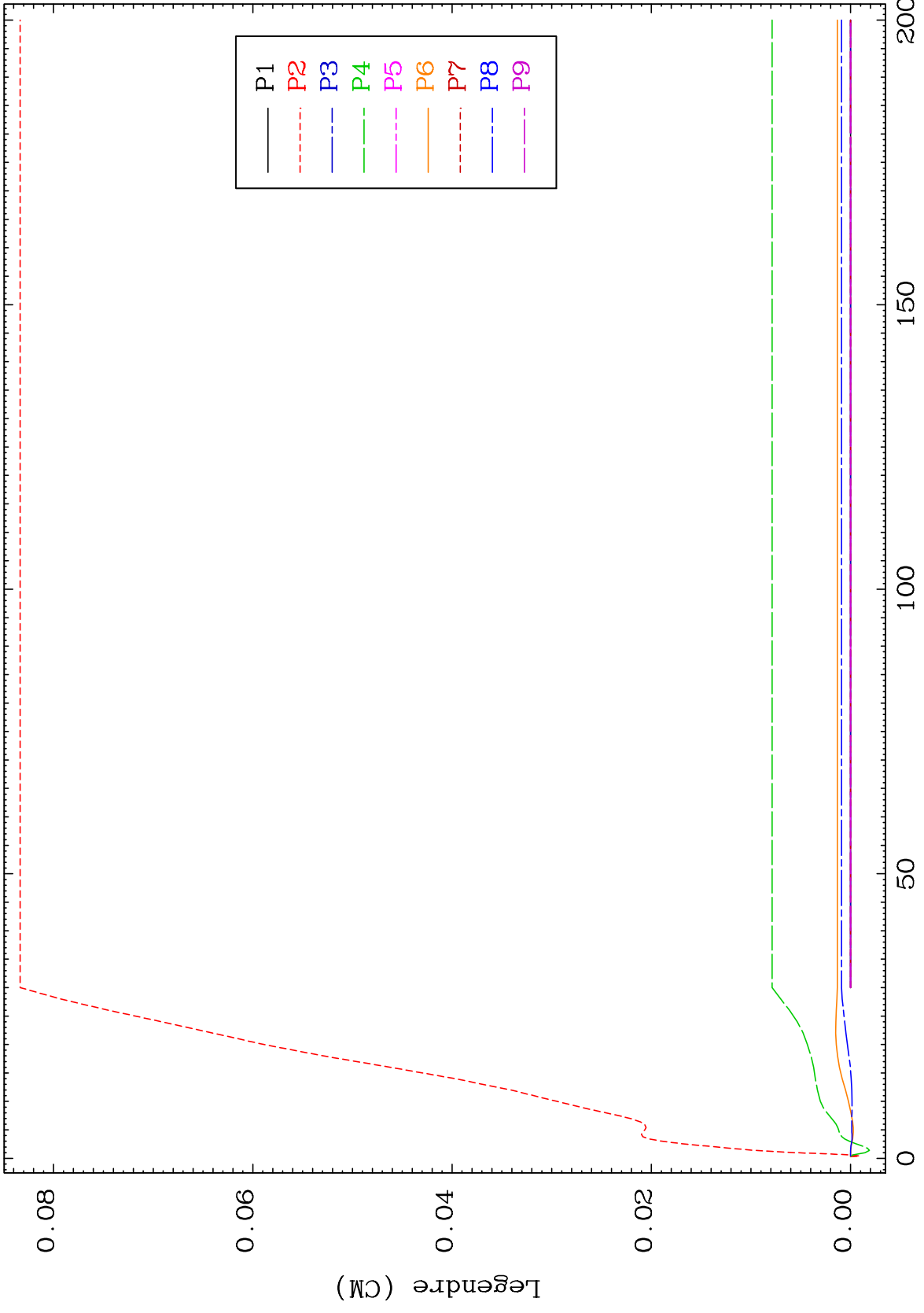
57-La-140

MAT 5731 MT= 59 (n,n') Level Legendre Coefficients 57-La-140



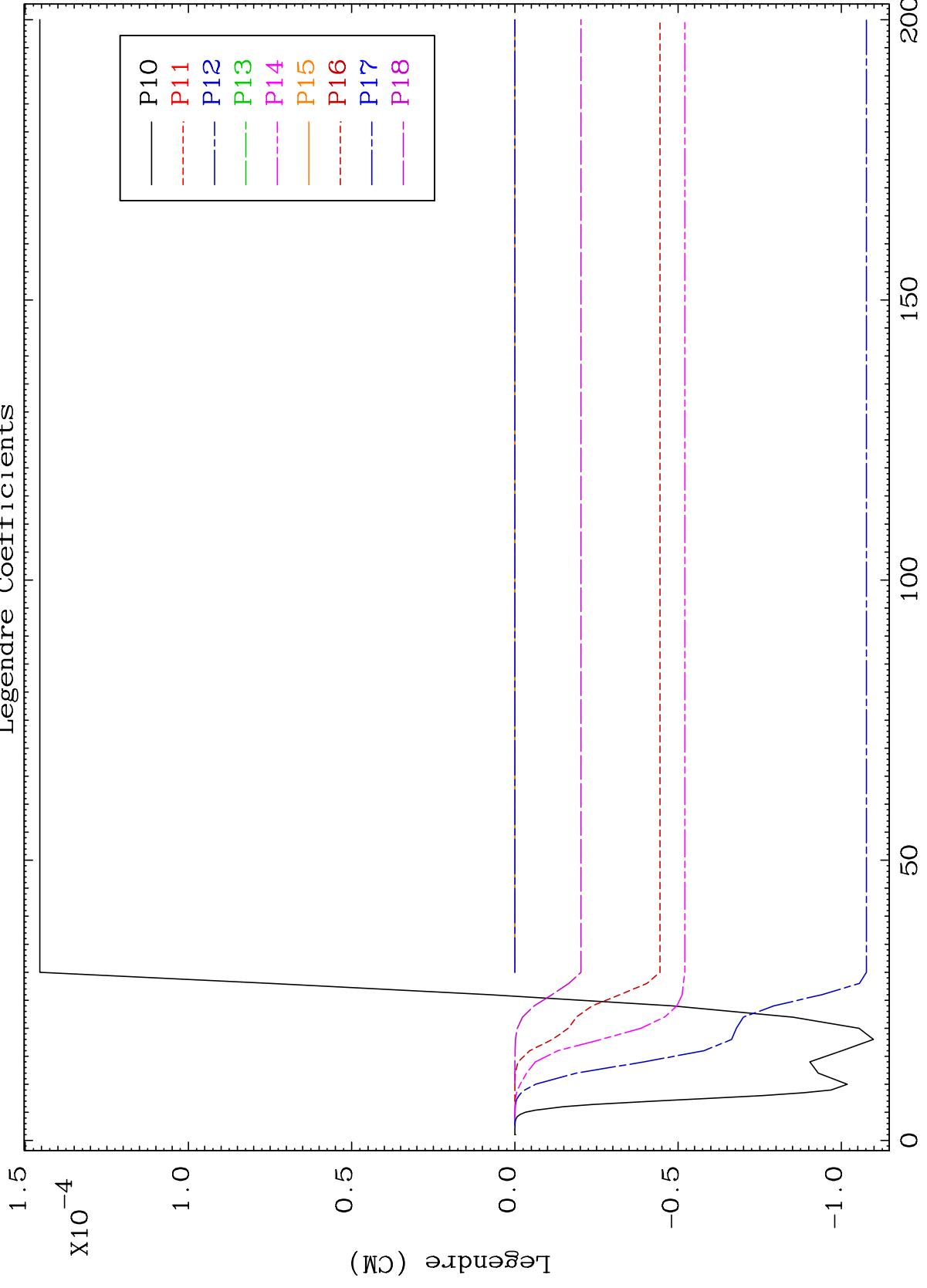
49 57-La-140

MAT 5731 MT= 60 (n,n') Level Legendre Coefficients 57-La-140



57-La-140

MAT 5731 MT= 60 (n,n') Level Legendre Coefficients 57-La-140

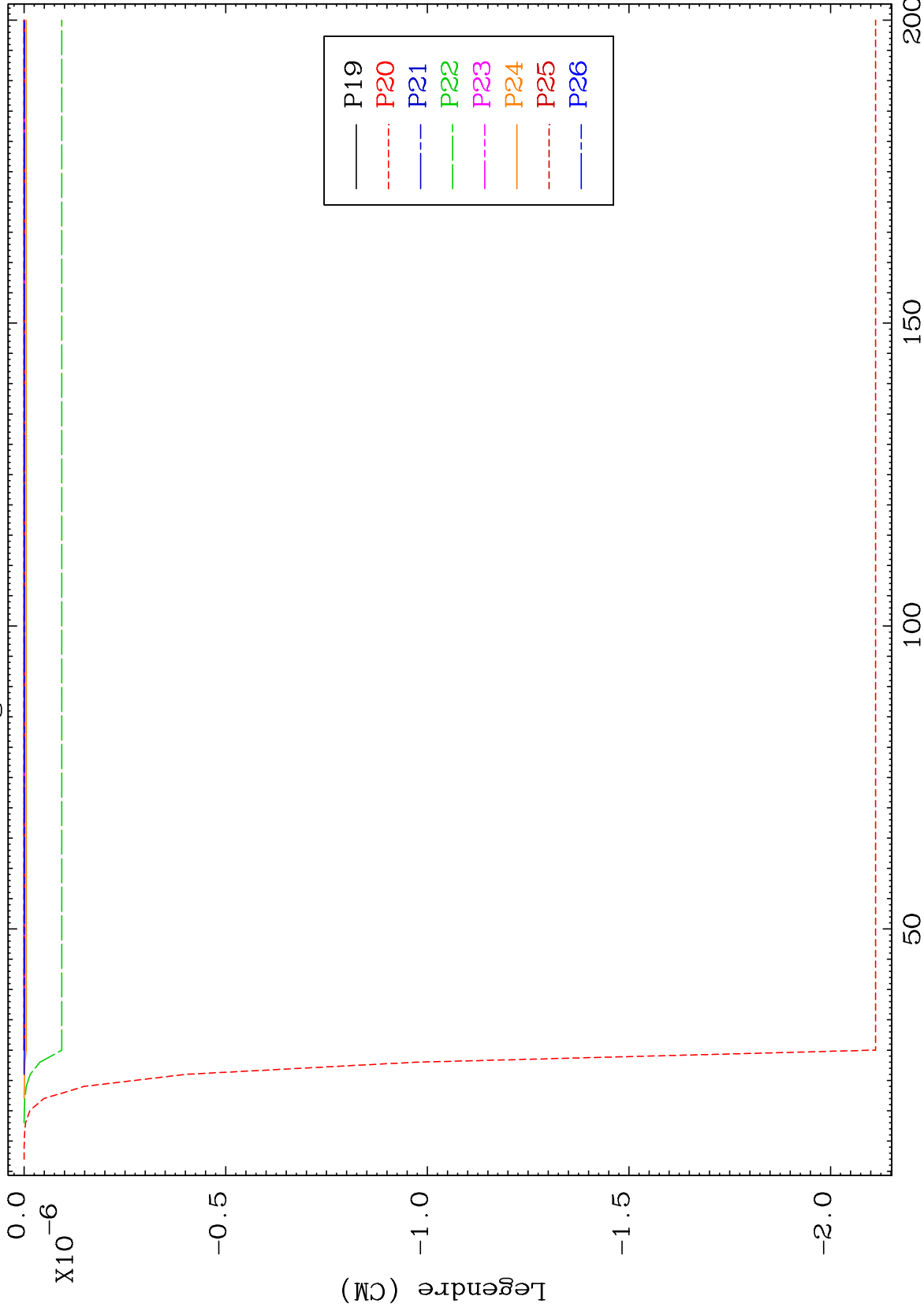


51 57-La-140

MAT 5731 MT= 60 (n,n') Level

57-La-140

Legendre Coefficients



52

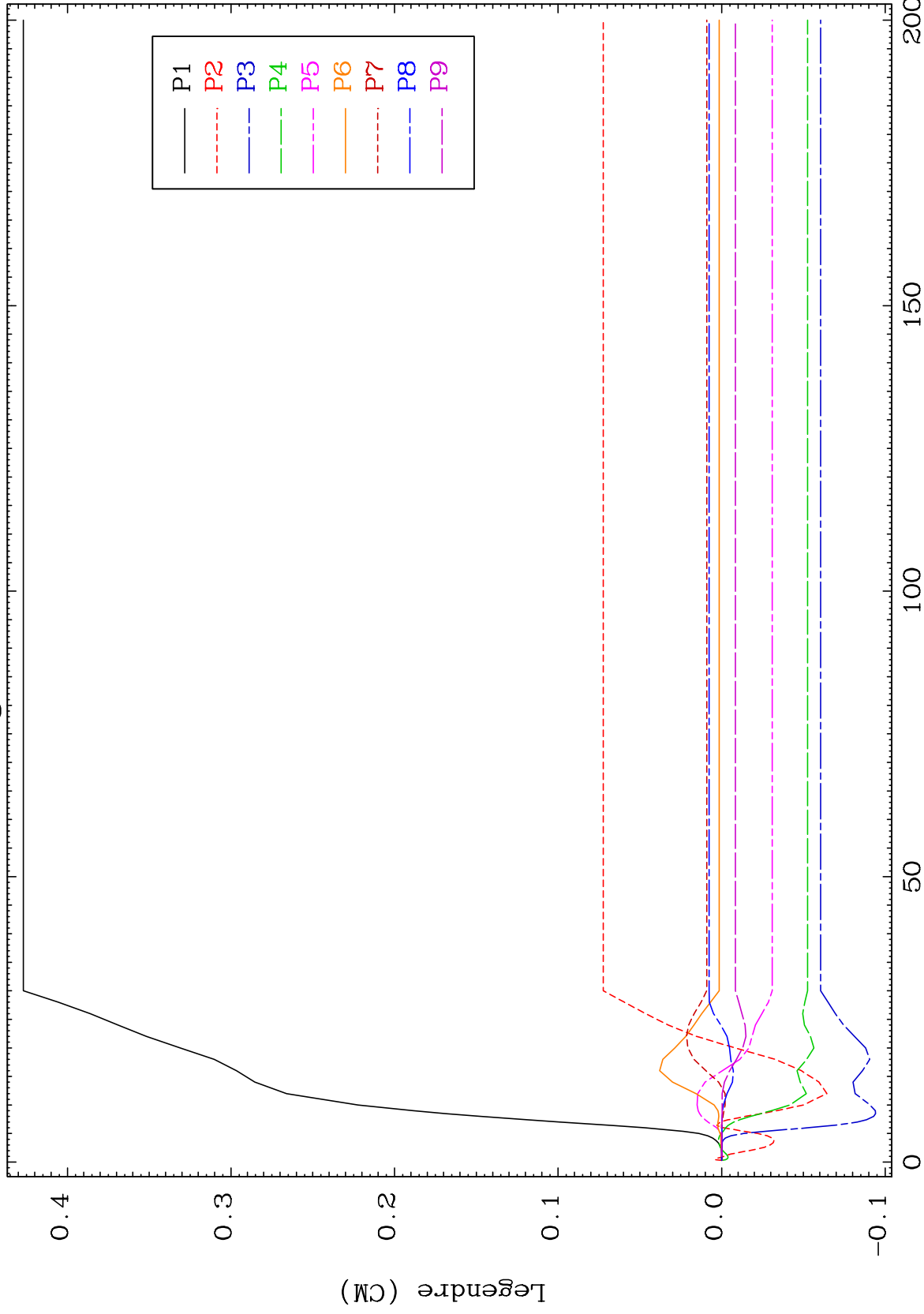
Incident Energy (MeV)

57-La-140

MAT 5731

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

57-La-140



53

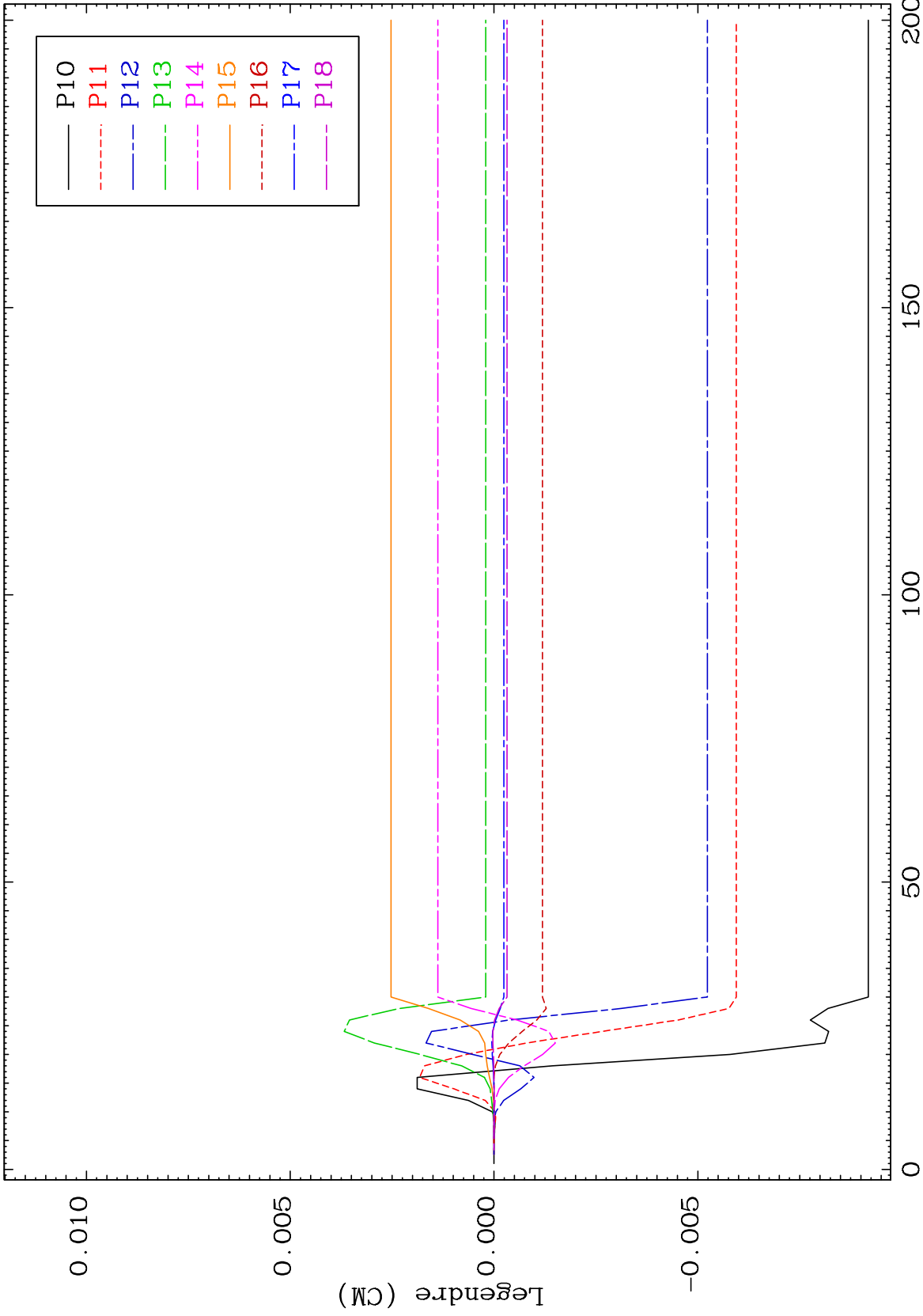
Incident Energy (MeV)

57-La-140

MAT 5731

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

57-La-140

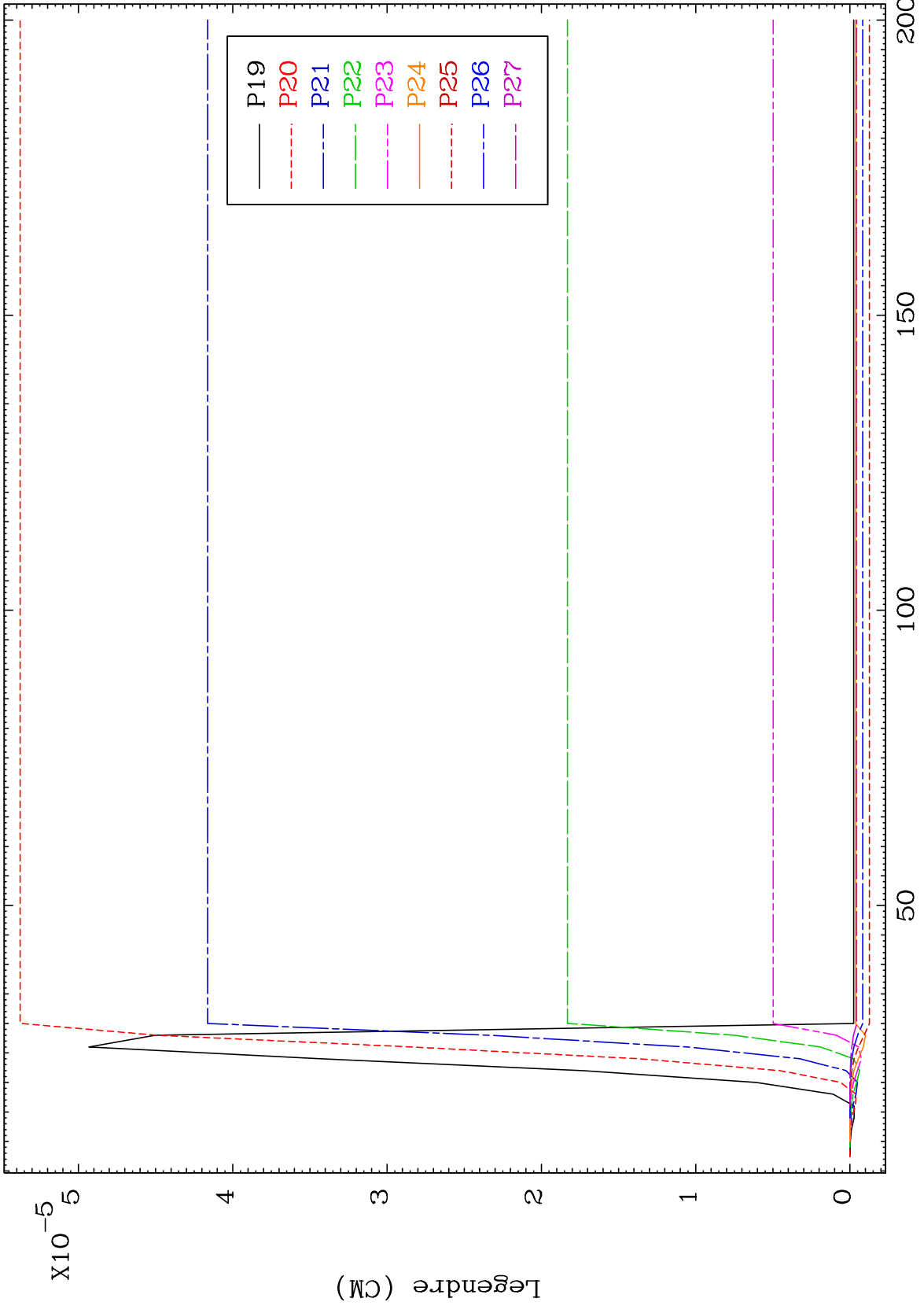


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Incident Energy (MeV)

57-La-140

MAT 5731 MT= 61 (n,n') Level Legendre Coefficients 57-La-140

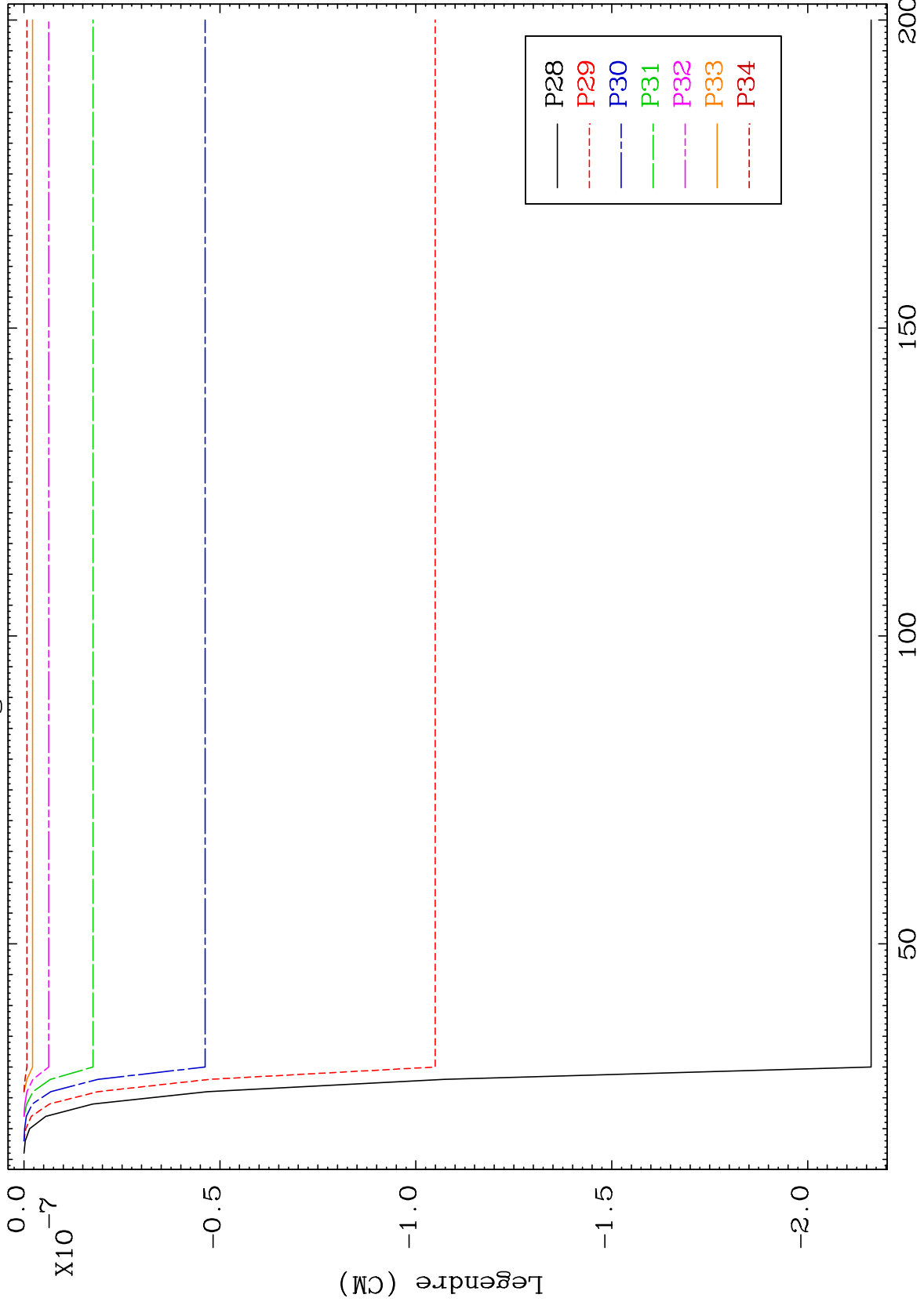


55 57-La-140

MAT 5731

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

57-La-140



57-La-140

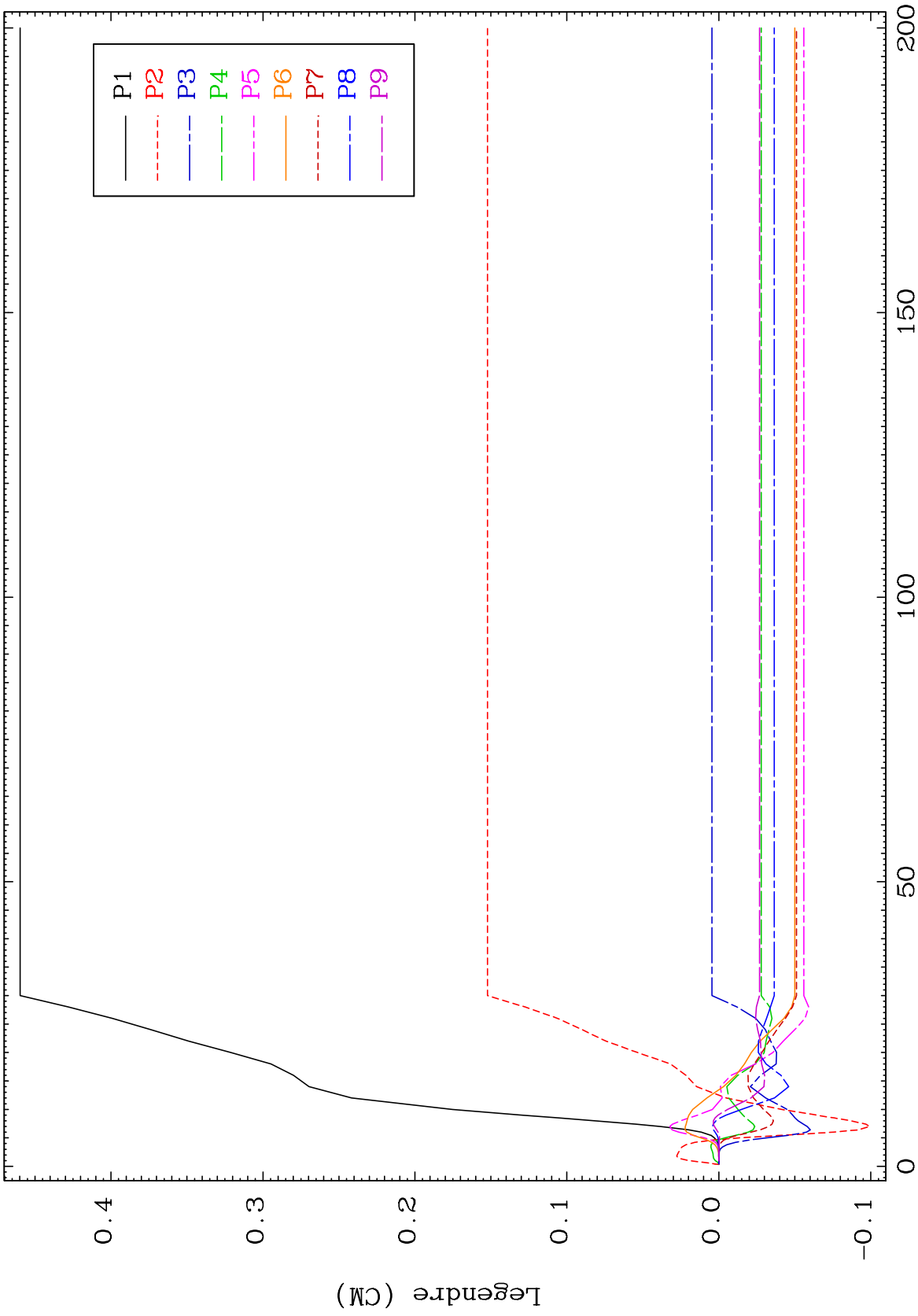
Incident Energy (MeV)

56

MAT 5731

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

57-La-140



57

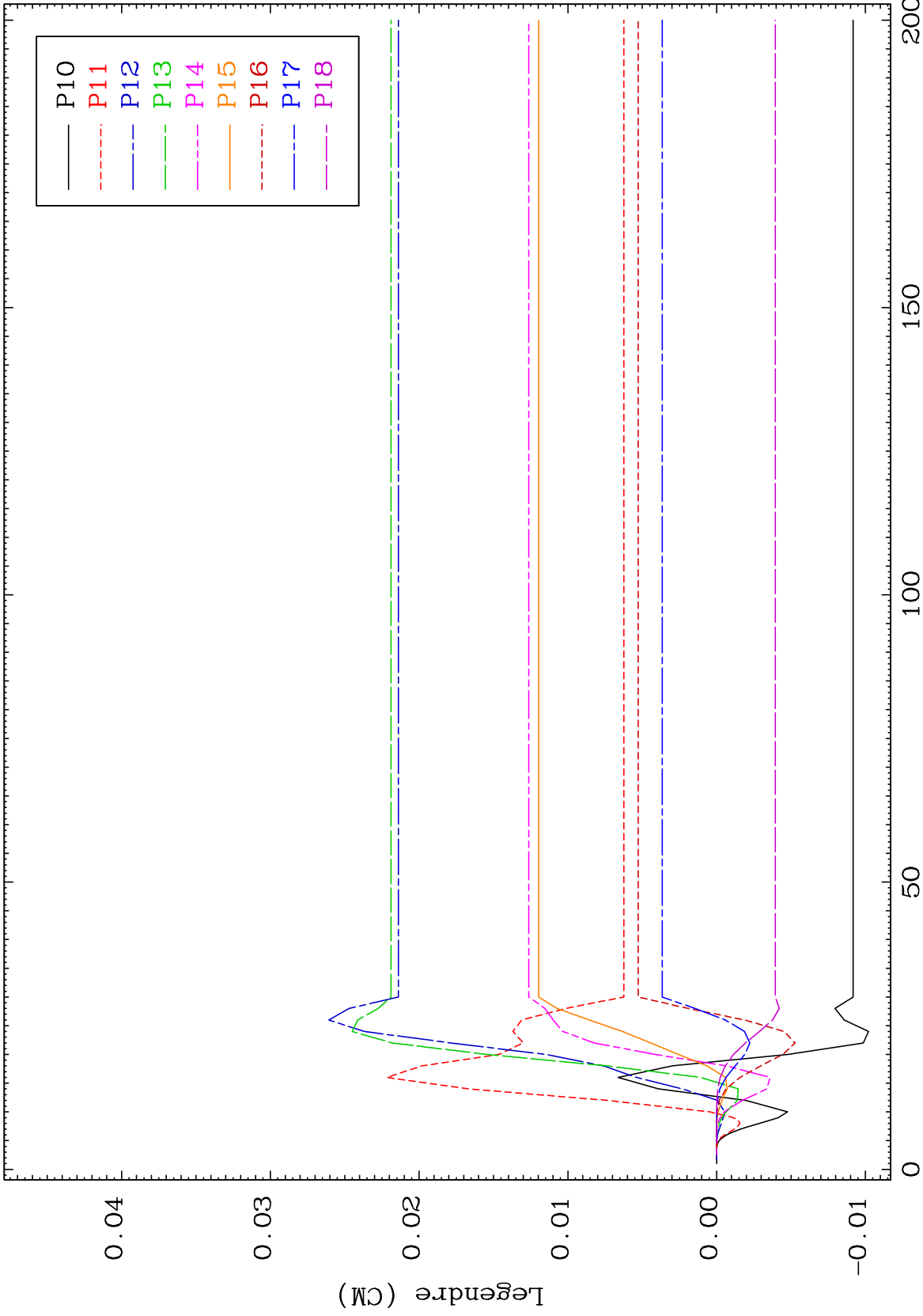
Incident Energy (MeV)

57-La-140

MAT 5731

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

57-La-140



58

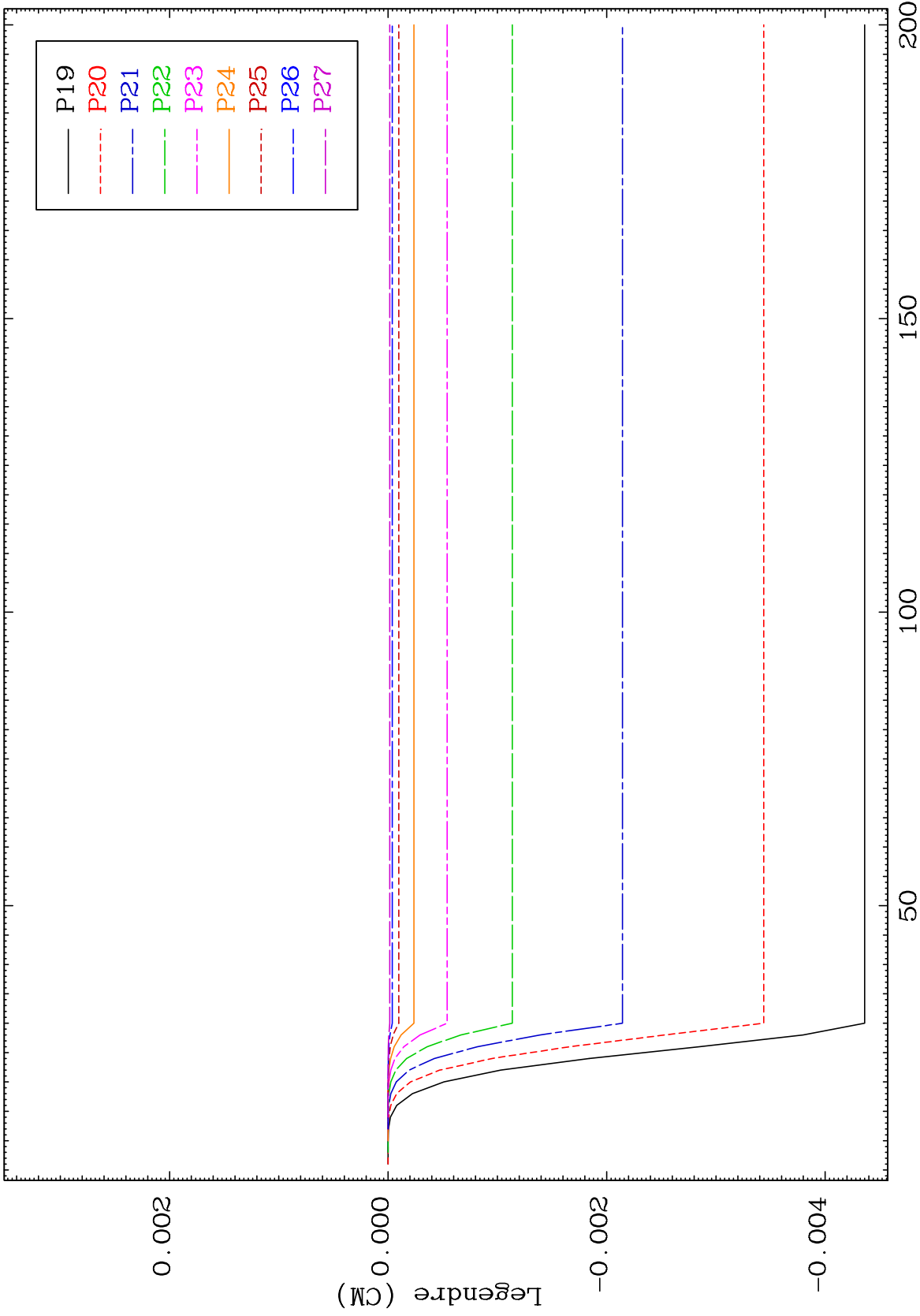
Incident Energy (MeV)

57-La-140

MAT 5731

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

57-La-140

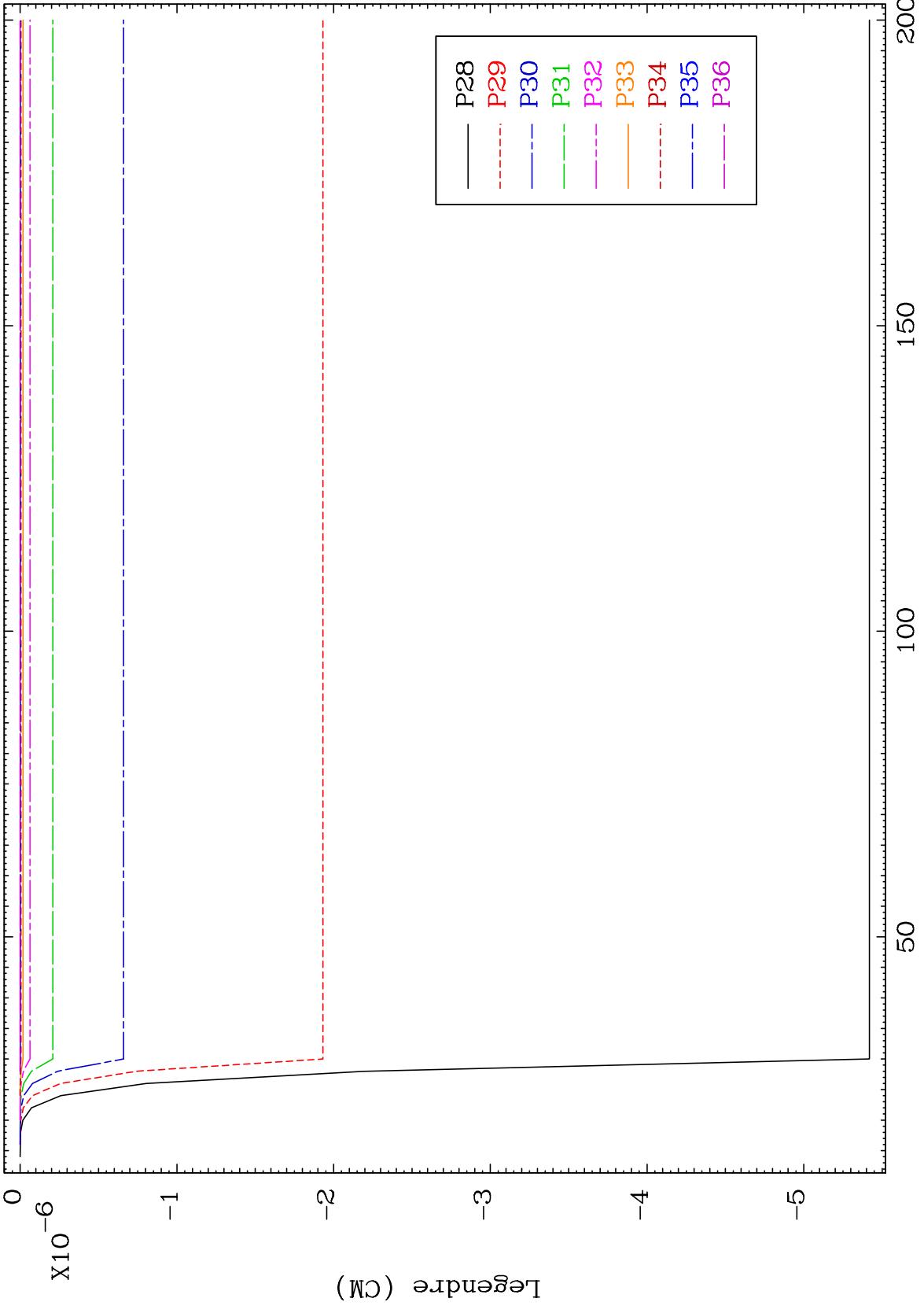


59

Incident Energy (MeV)

57-La-140

MAT 5731 MT= 62 (n,n') Level Legendre Coefficients 57-La-140

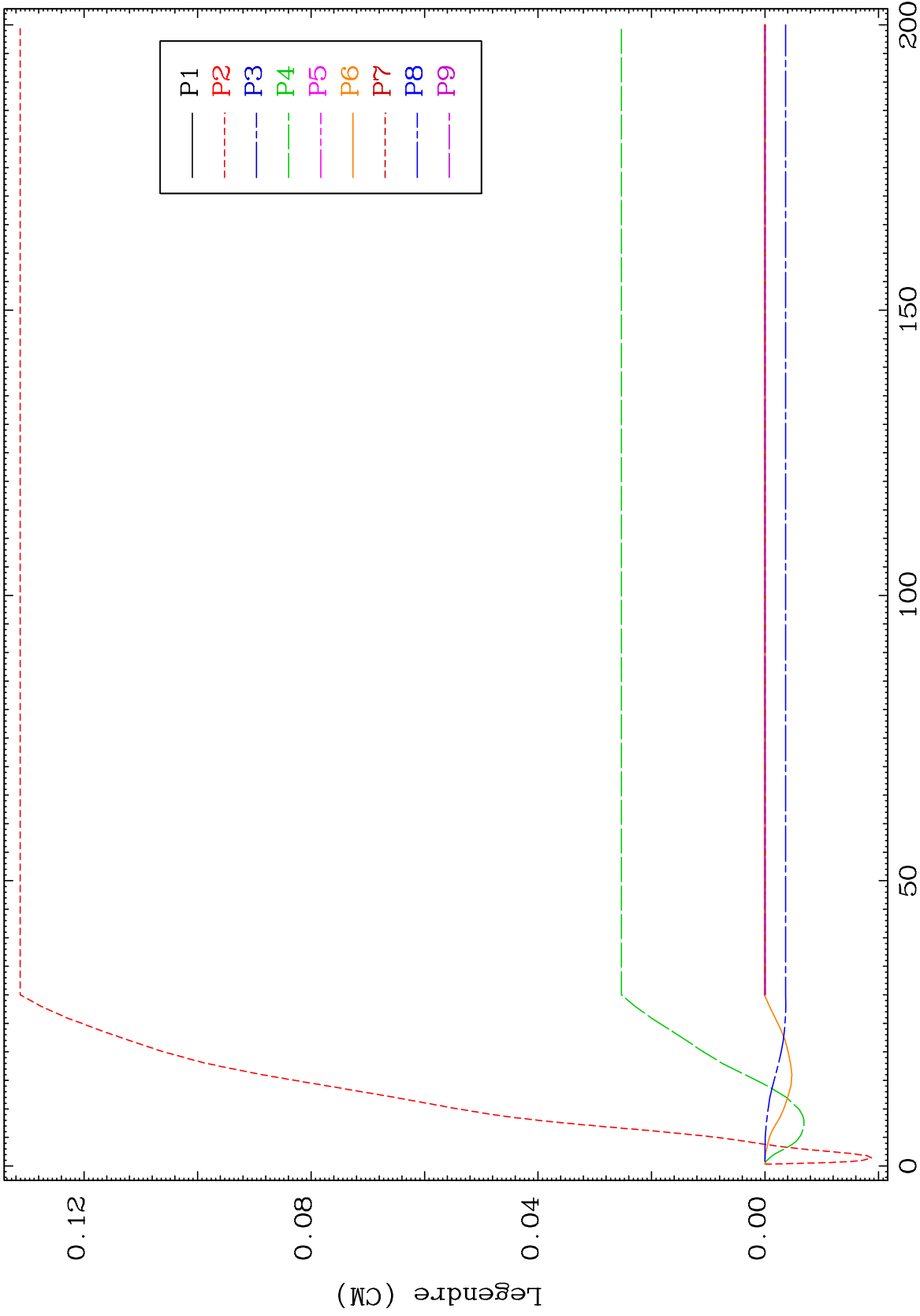


60 50 100 150 200 Incident Energy (MeV) 57-La-140

MAT 5731

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

57-La-140

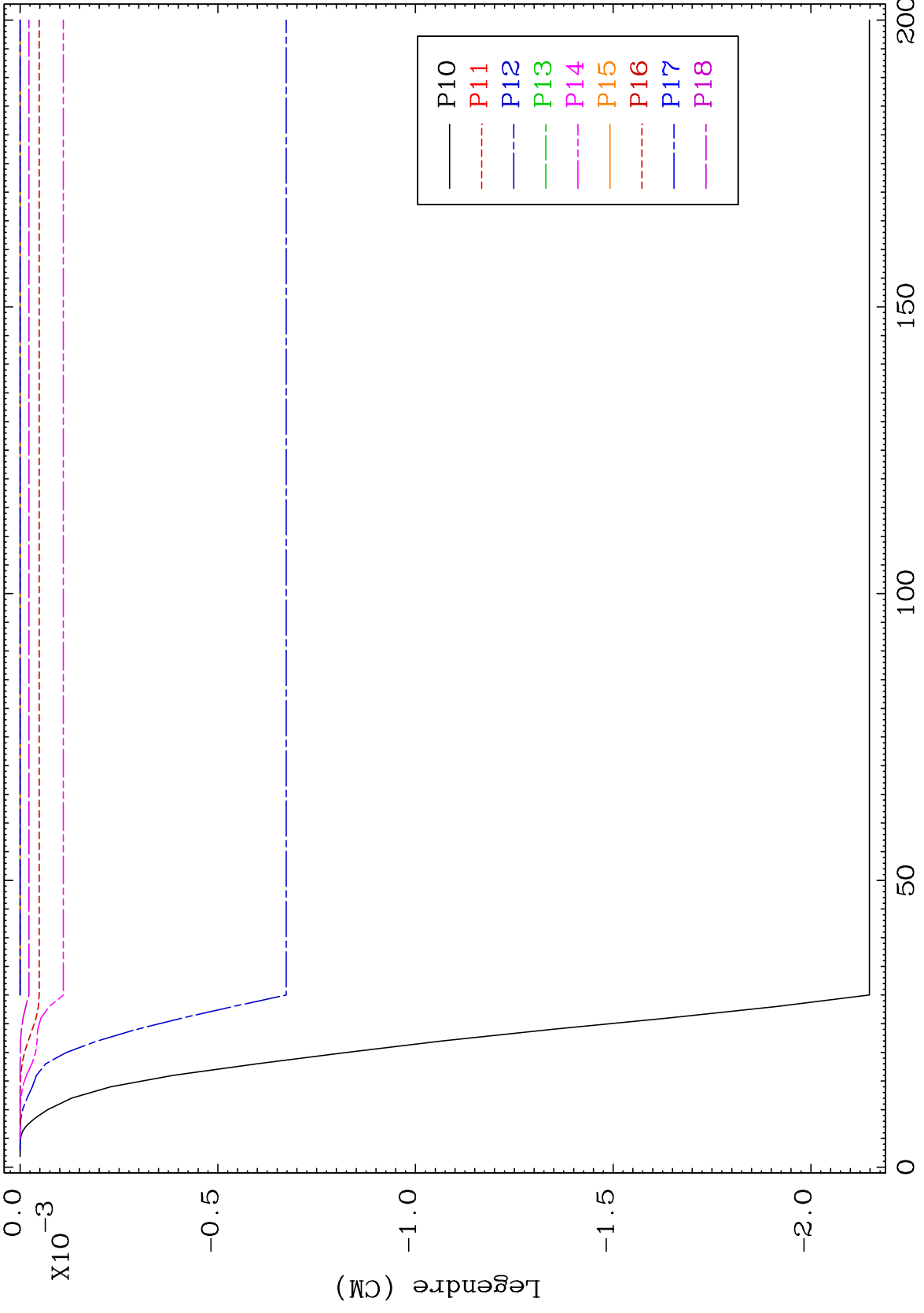


61

Incident Energy (MeV)

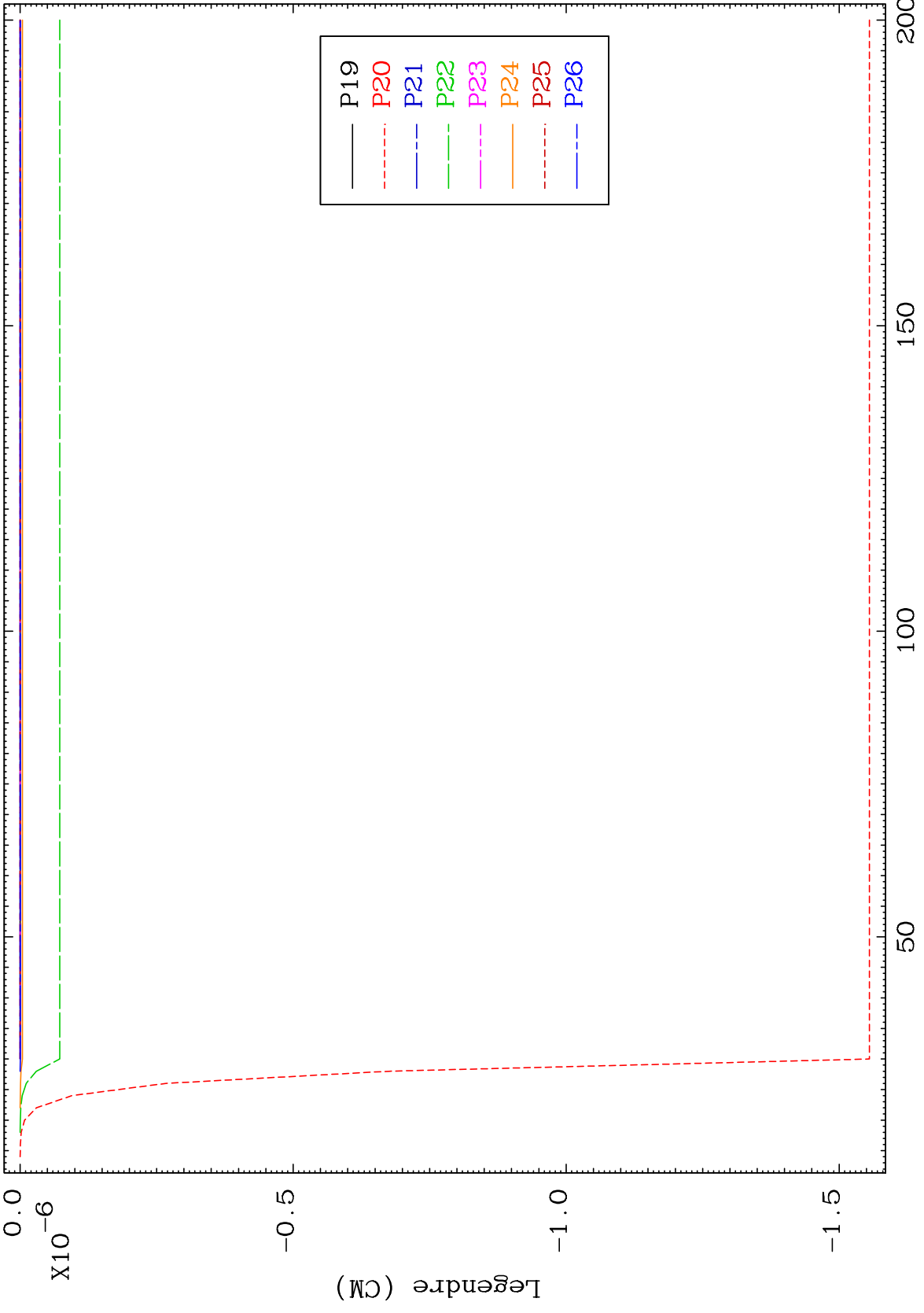
57-La-140

MAT 5731 MT= 63 (n,n') Level Legendre Coefficients 57-La-140



62 57-La-140

MAT 5731 MT= 63 (n,n') Level Legendre Coefficients 57-La-140

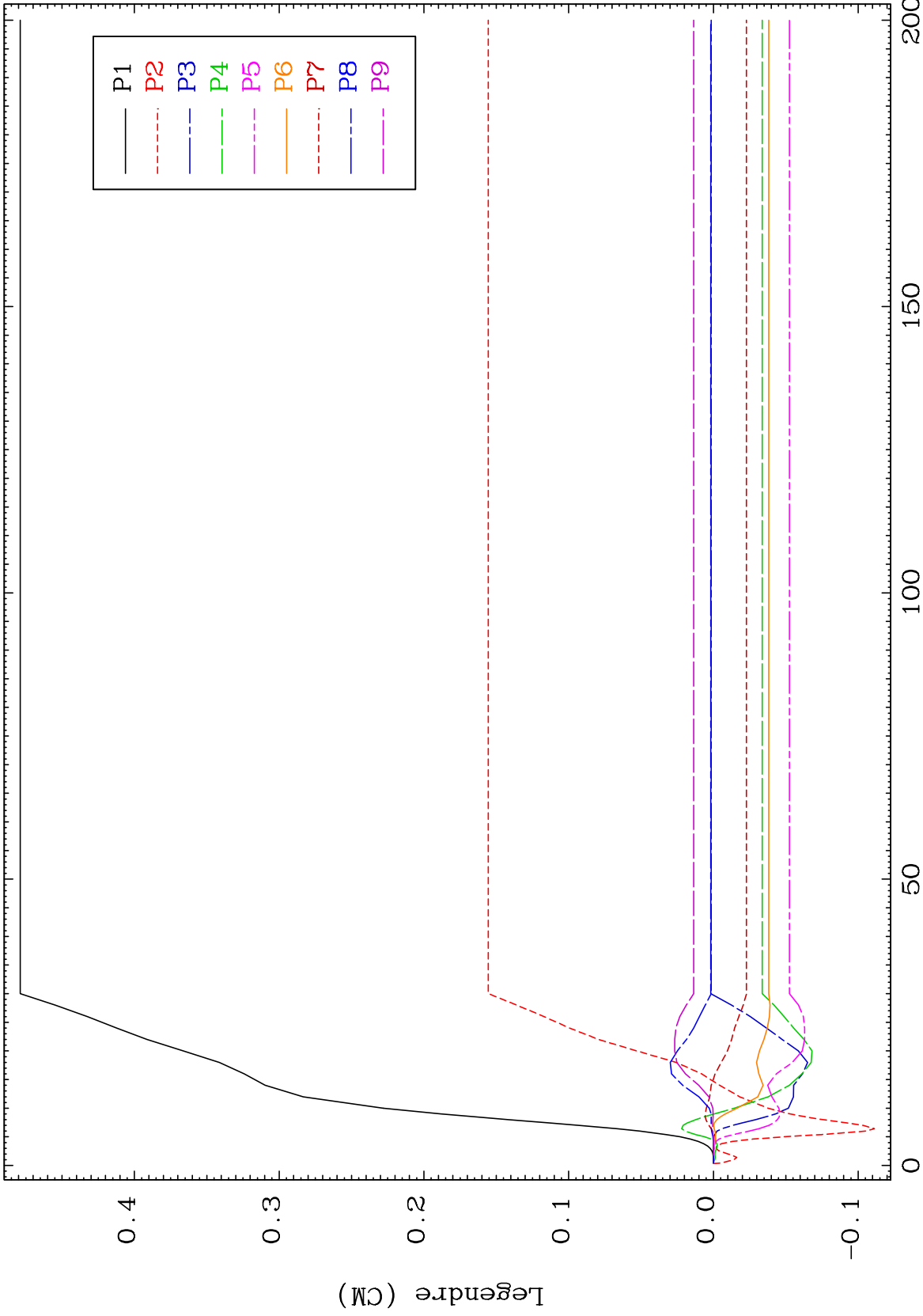


63 57-La-140

MAT 5731

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

57-La-140



64

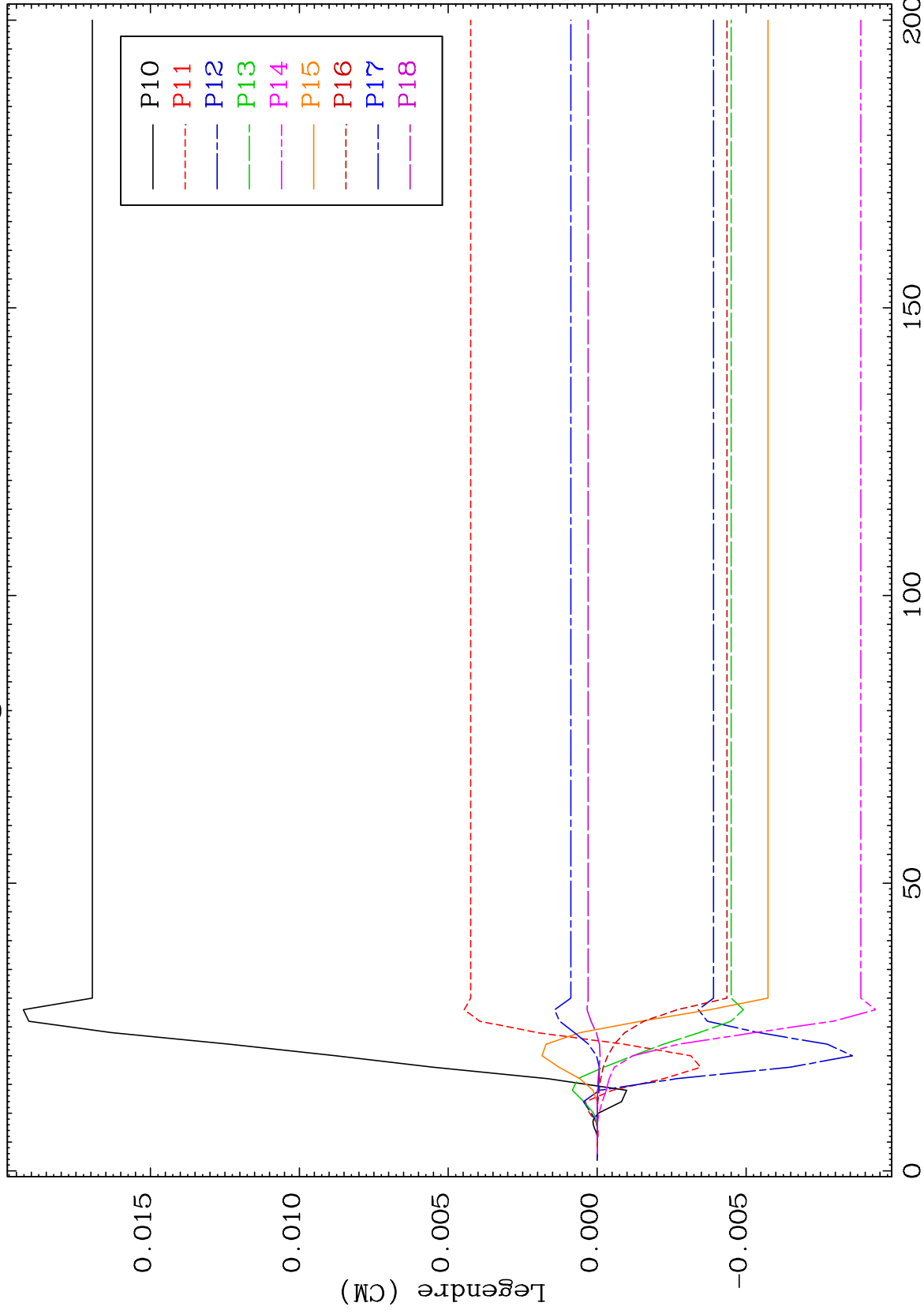
Incident Energy (MeV)

57-La-140

MAT 5731

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

57-La-140



65

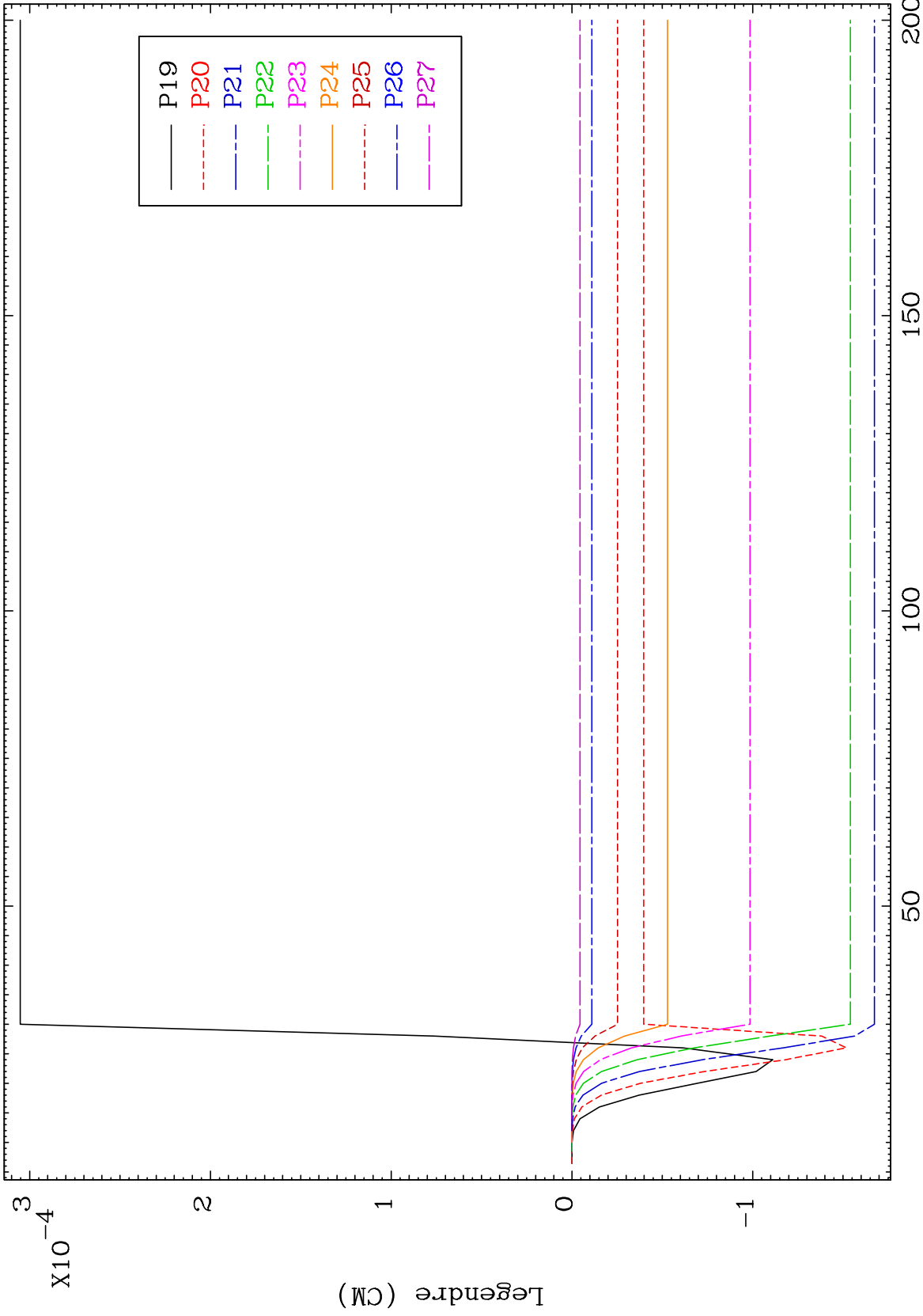
Incident Energy (MeV)

57-La-140

MAT 5731

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

57-La-140



66

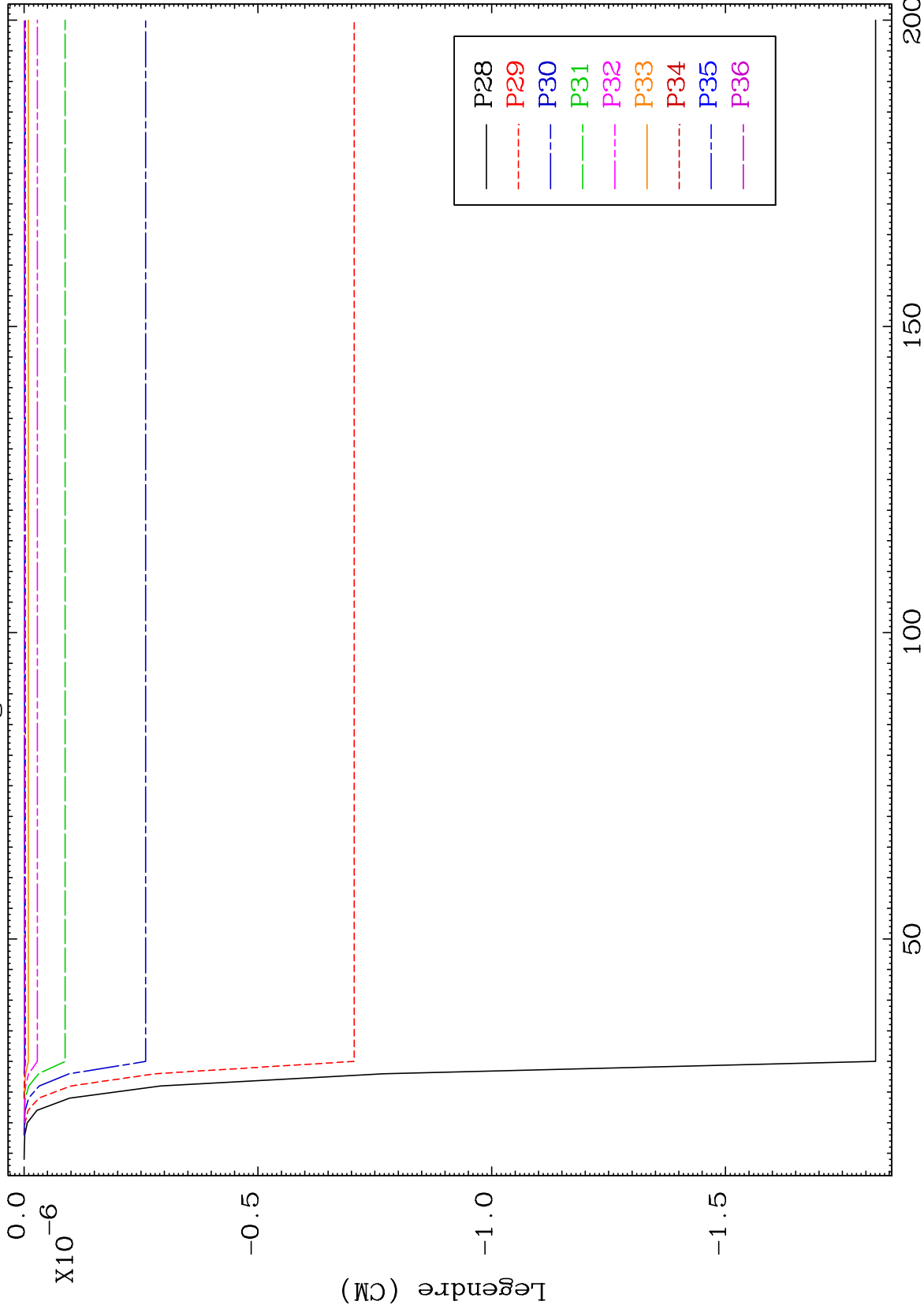
Incident Energy (MeV)

57-La-140

MAT 5731

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

57-La-140



57-La-140

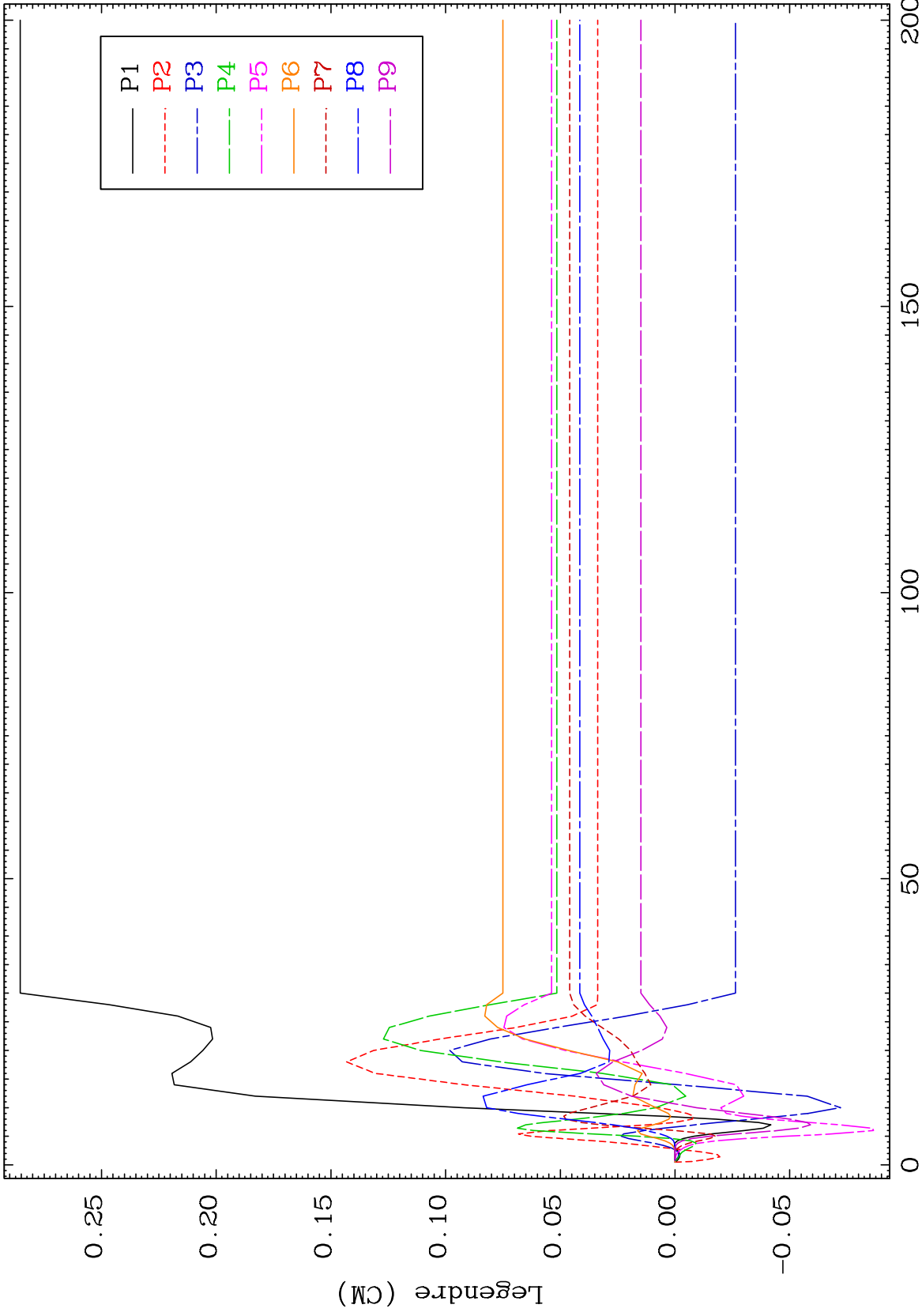
Incident Energy (MeV)

67

MAT 5731

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

57-La-140



68

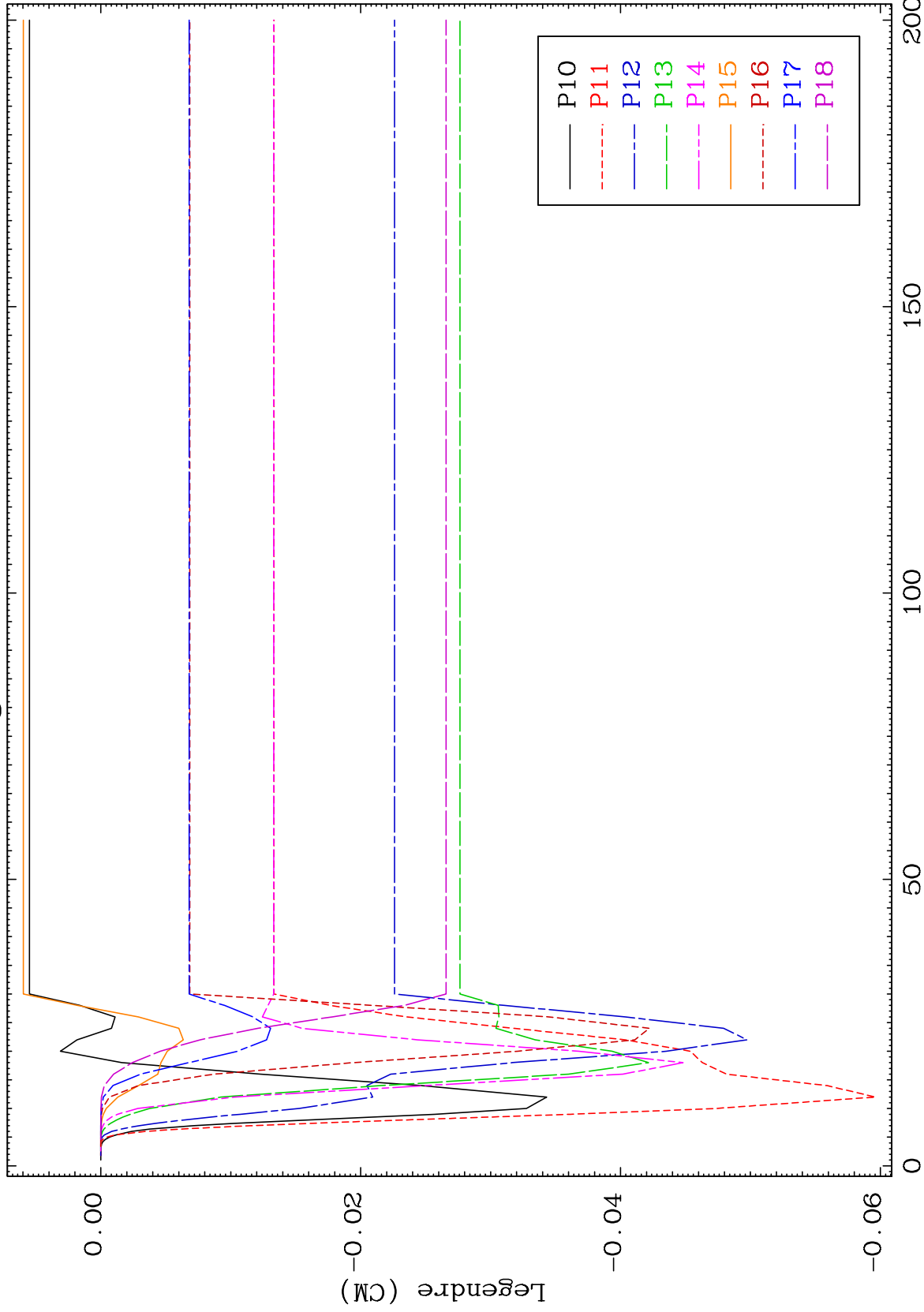
Incident Energy (MeV)

57-La-140

MAT 5731

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

57-La-140

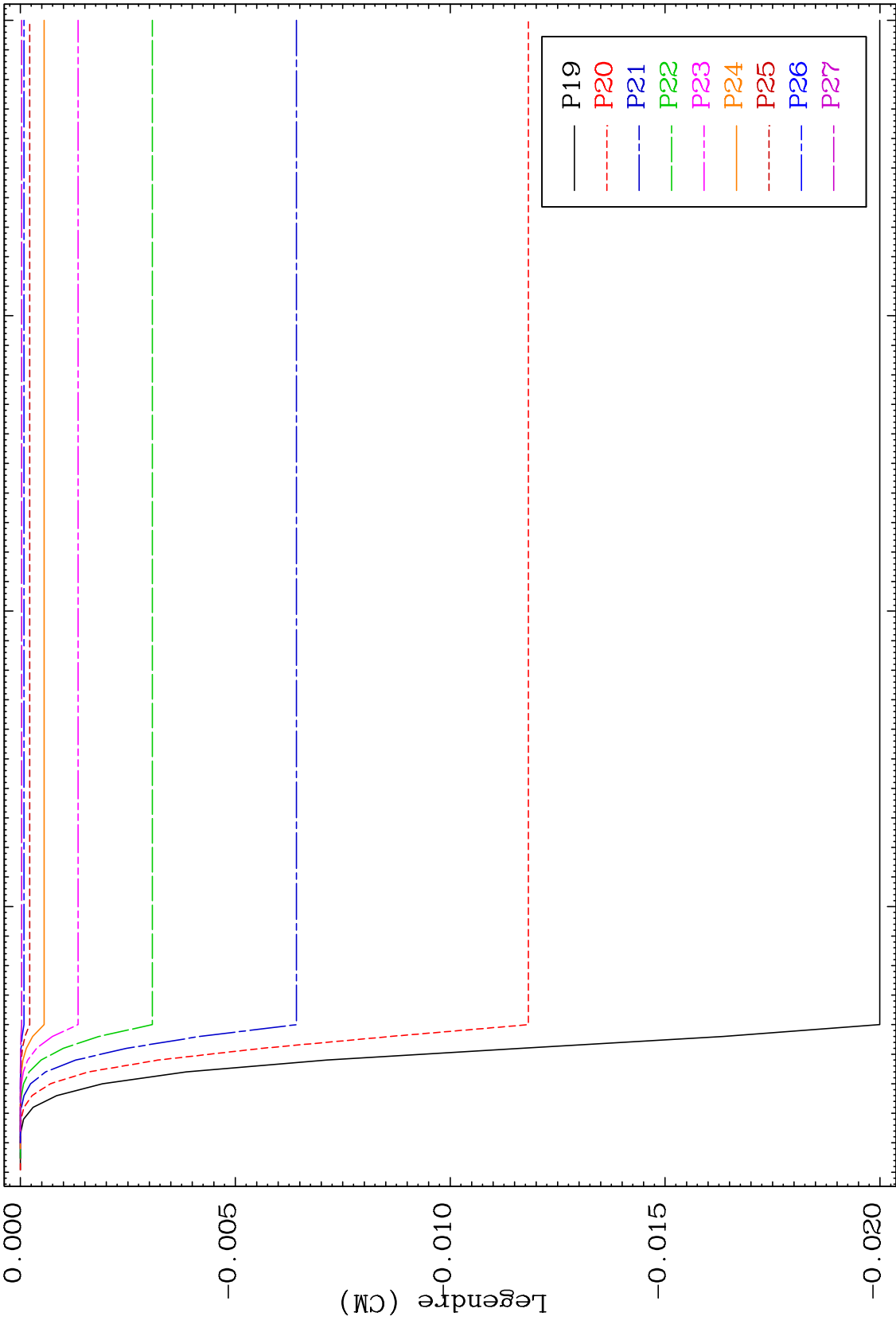


69

Incident Energy (MeV)

57-La-140

MAT 5731 MT= 65 (n,n') Level Legendre Coefficients 57-La-140

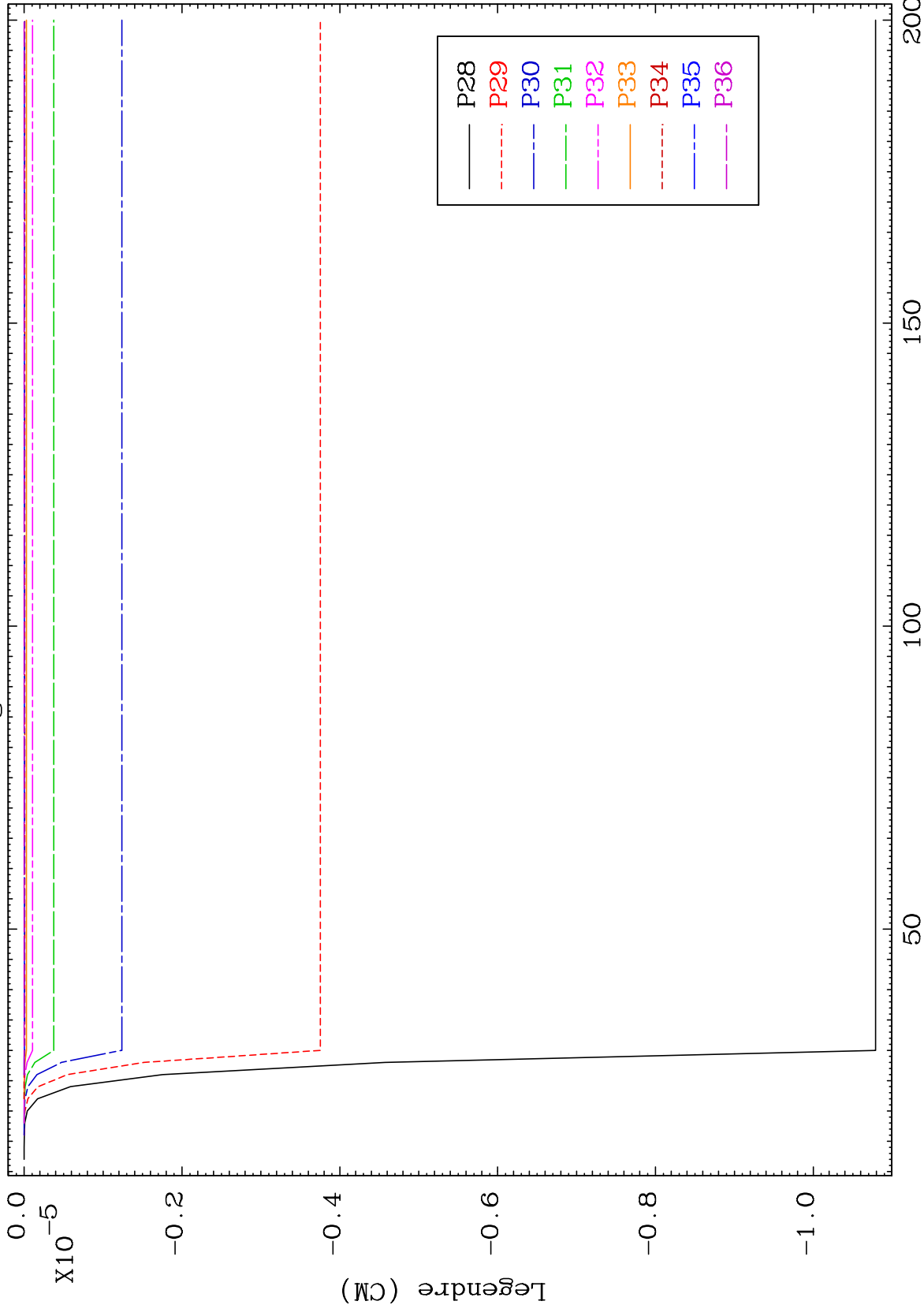


70 Incident Energy (MeV) 57-La-140

MAT 5731

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

57-La-140



57-La-140

Incident Energy (MeV)

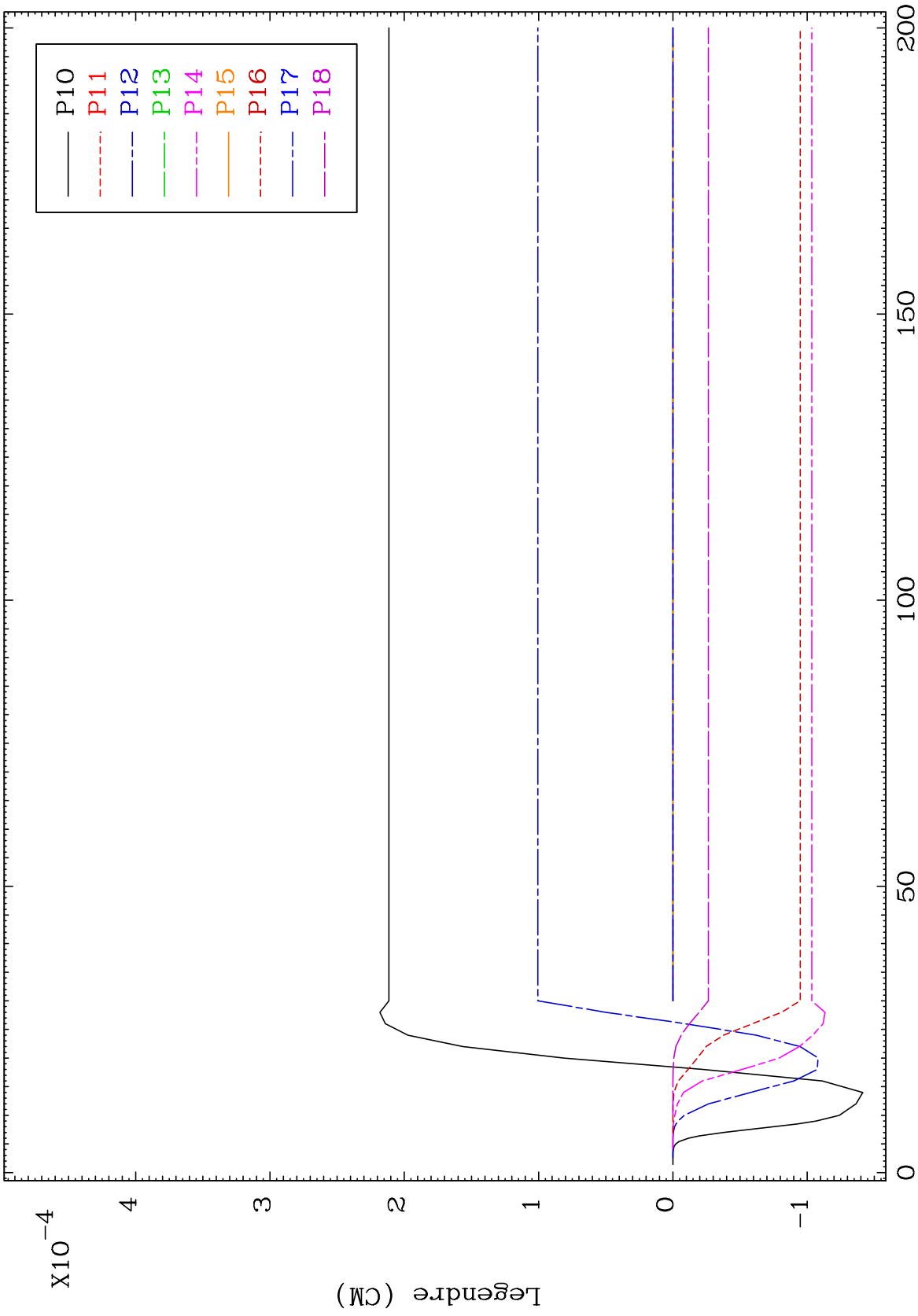
71



MAT 5731

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

57-La-140



73

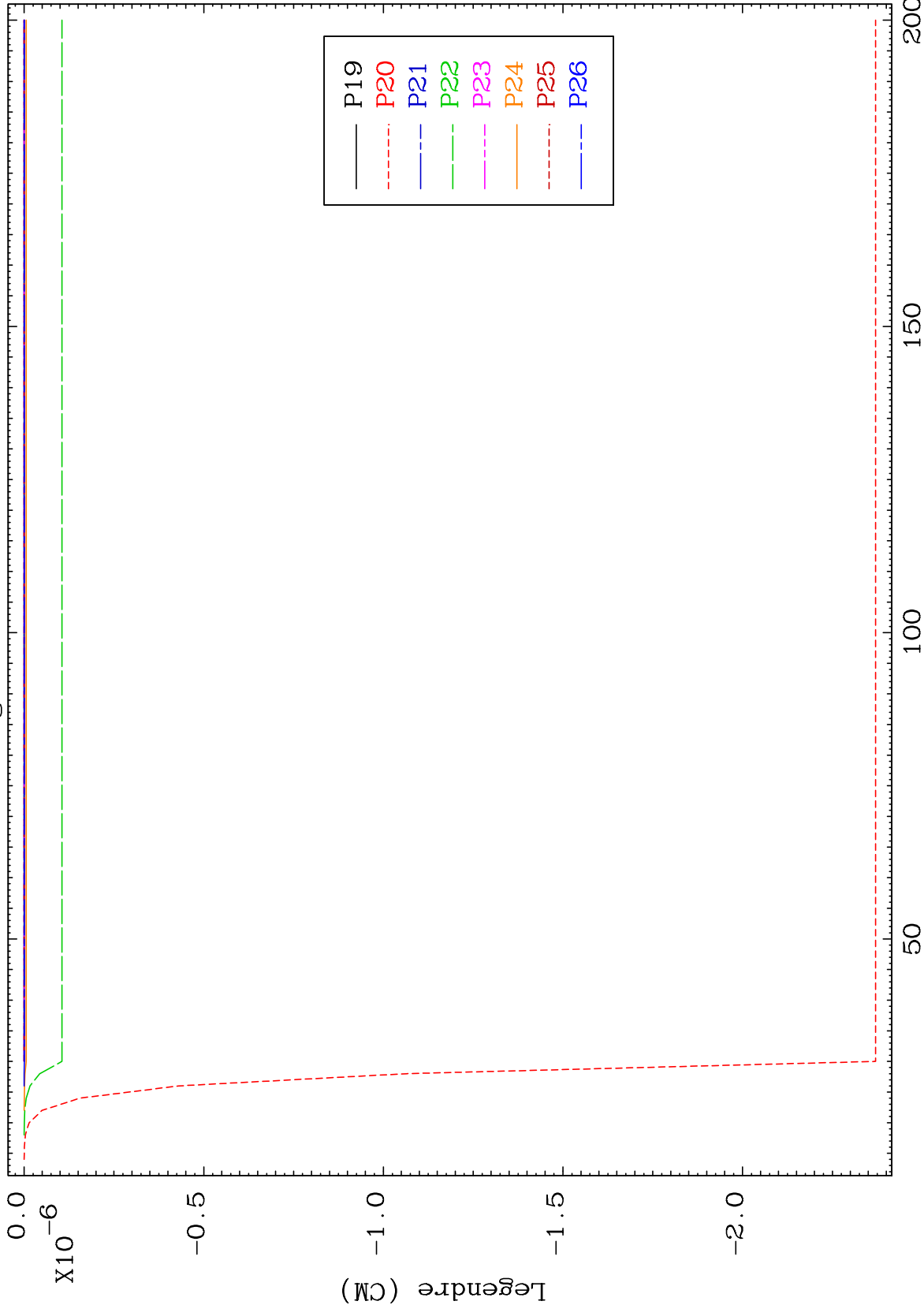
Incident Energy (MeV)

57-La-140

MAT 5731

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

57-La-140



57-La-140

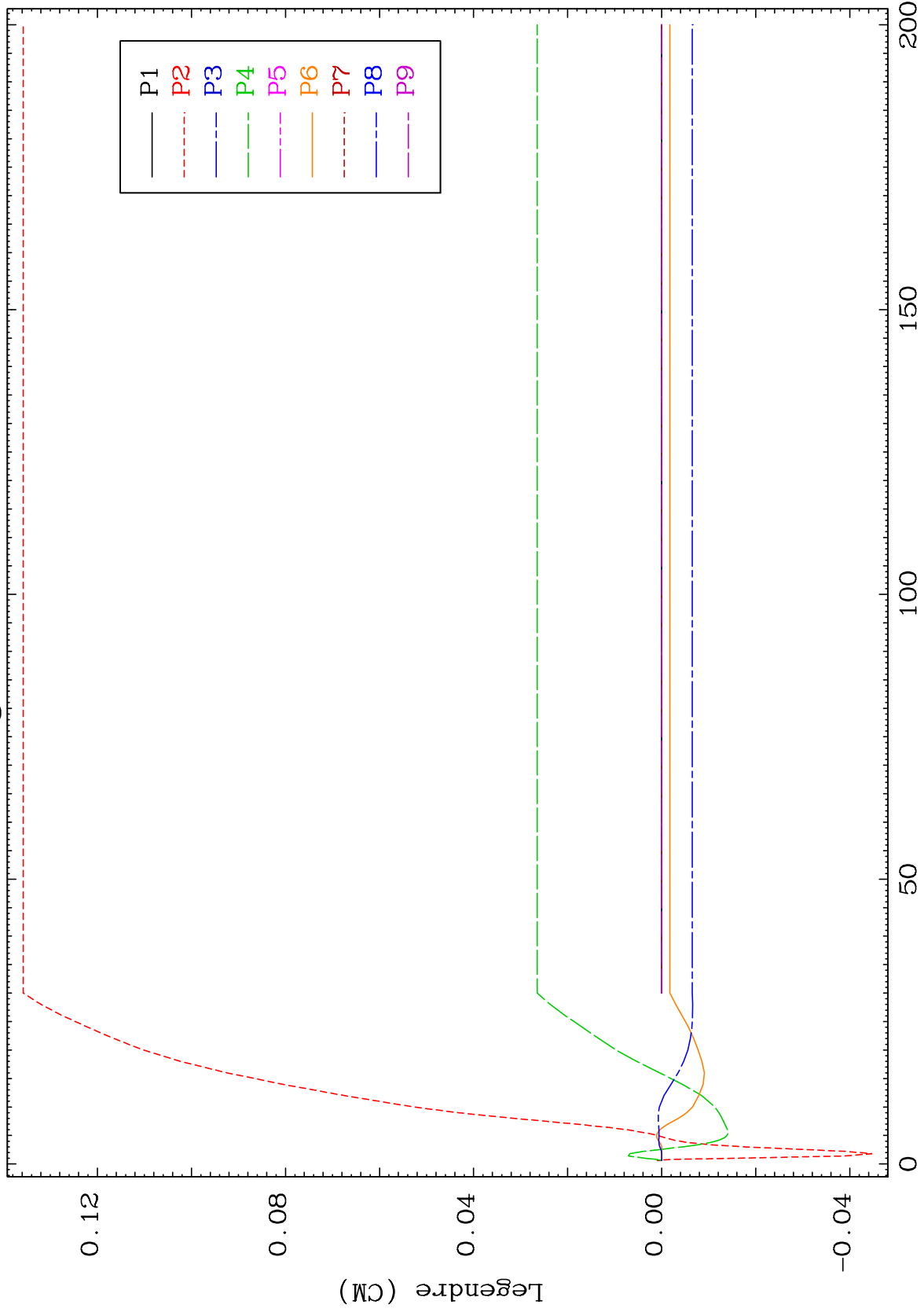
Incident Energy (MeV)

74

MAT 5731

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

57-La-140



75

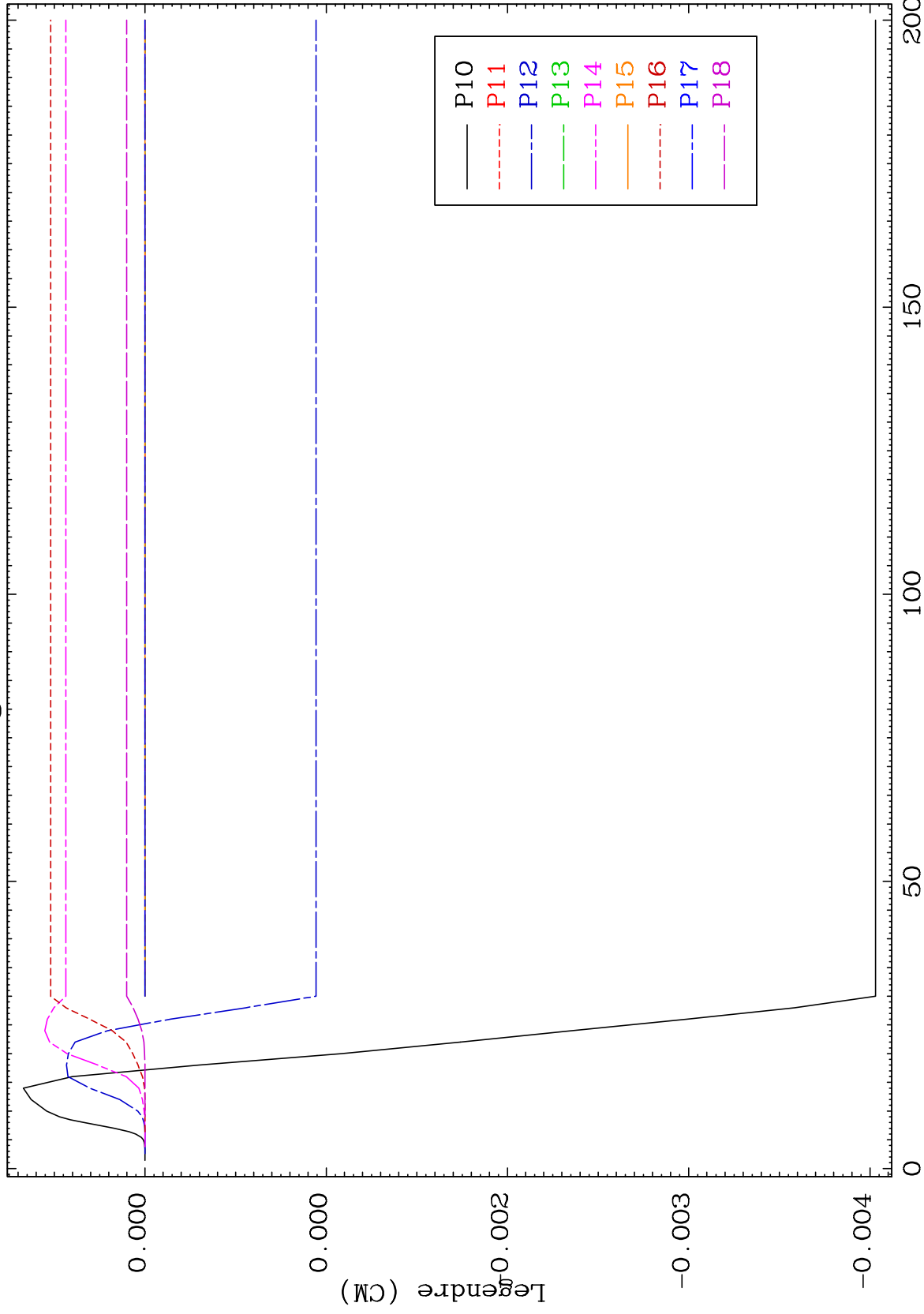
Incident Energy (MeV)

57-La-140

MAT 5731

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

57-La-140

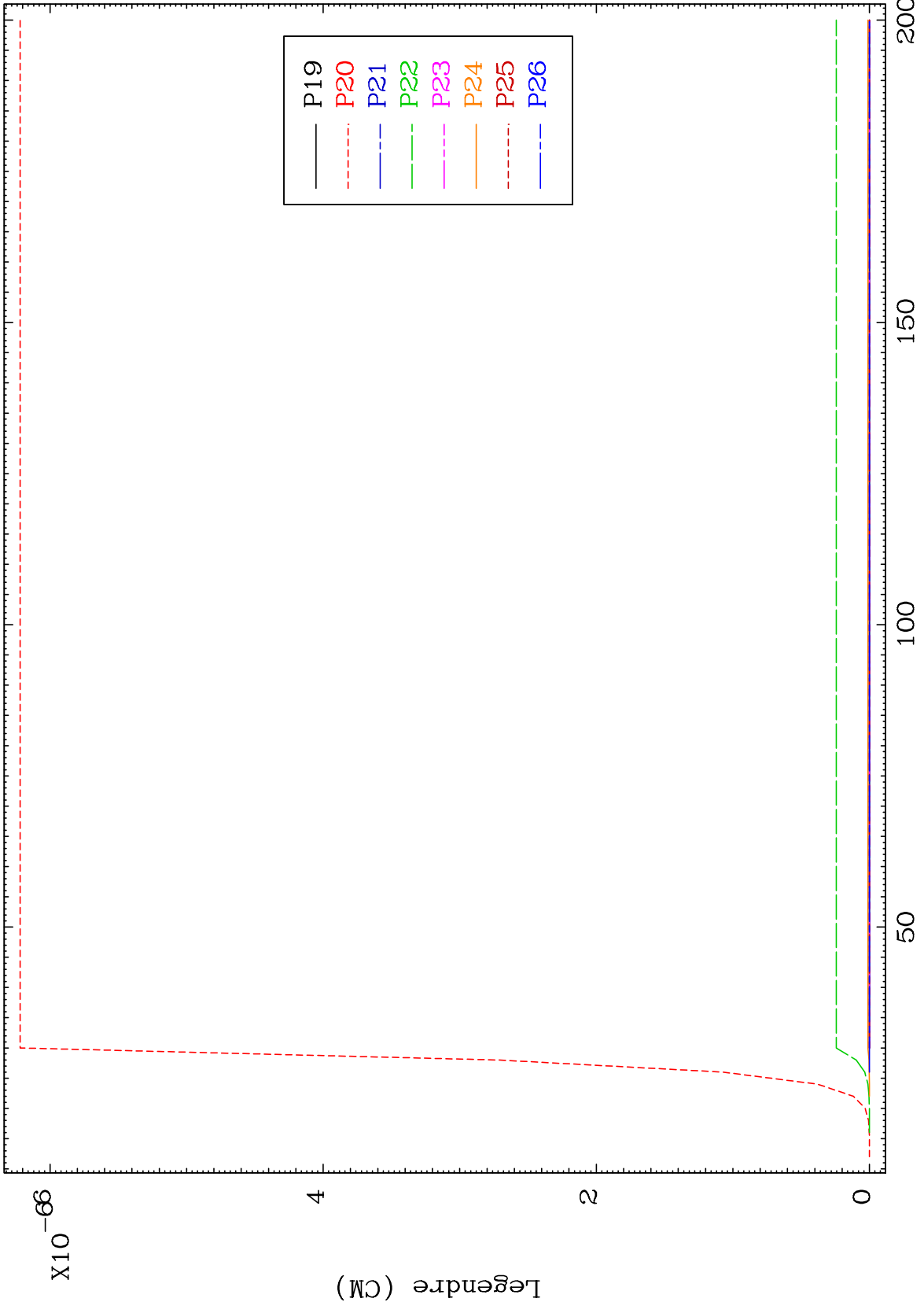


76

Incident Energy (MeV)

57-La-140

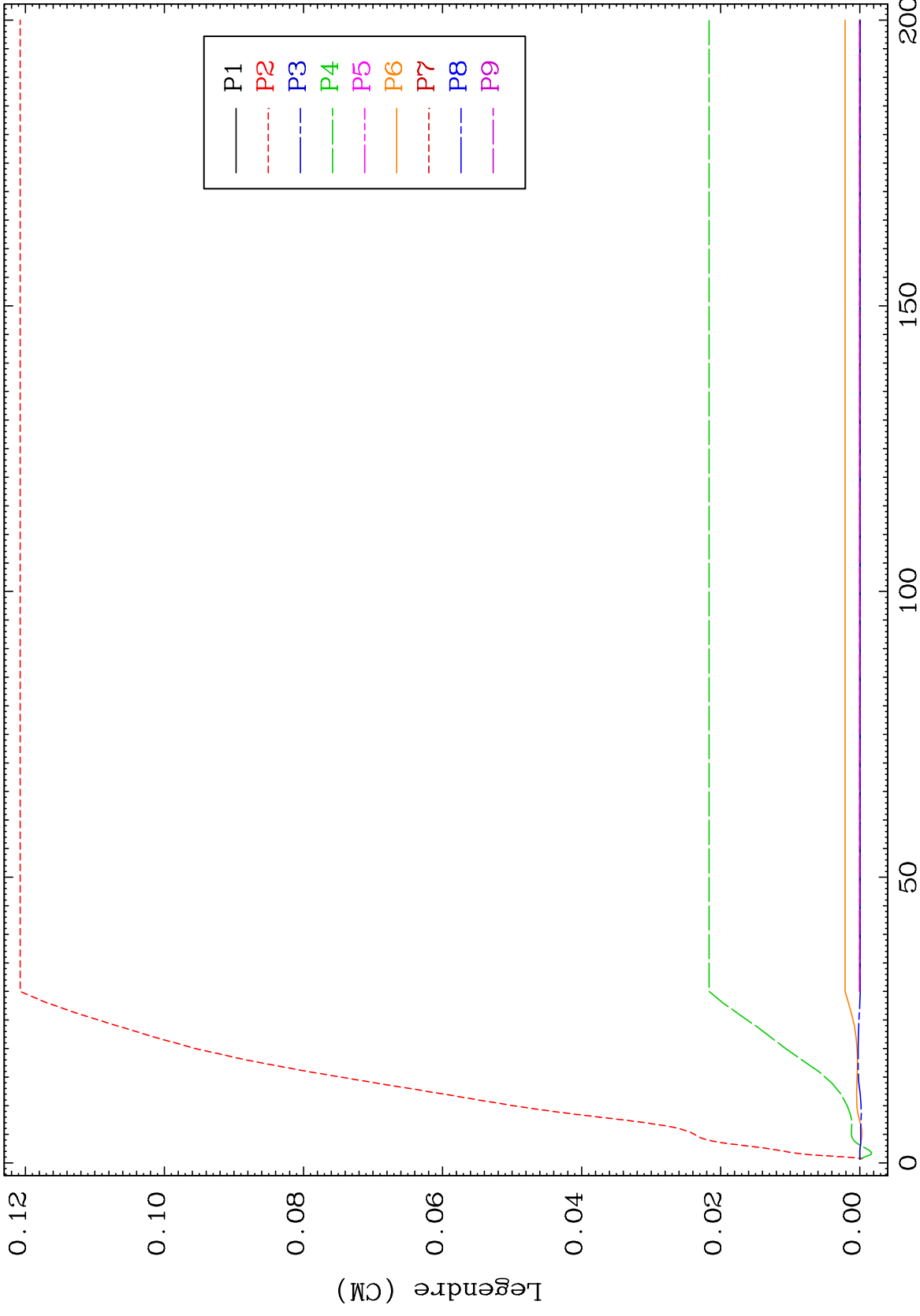
MAT 5731 MT= 67 (n,n') Level Legendre Coefficients 57-La-140



77 57-La-140

MAT 5731 MT= 68 (n,n') Level Legendre Coefficients

57-La-140



57-La-140

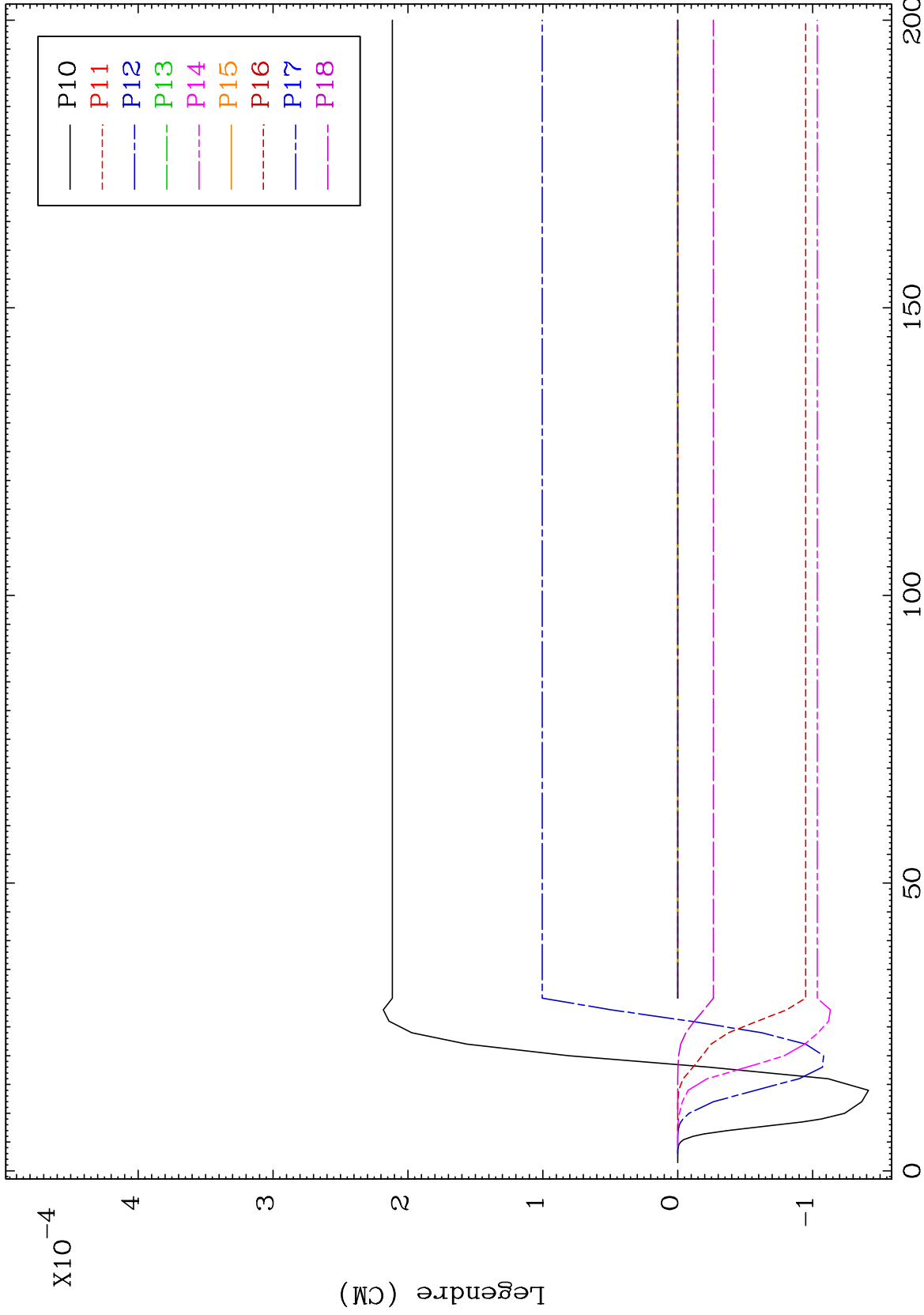
Incident Energy (MeV)

78

MAT 5731

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

57-La-140



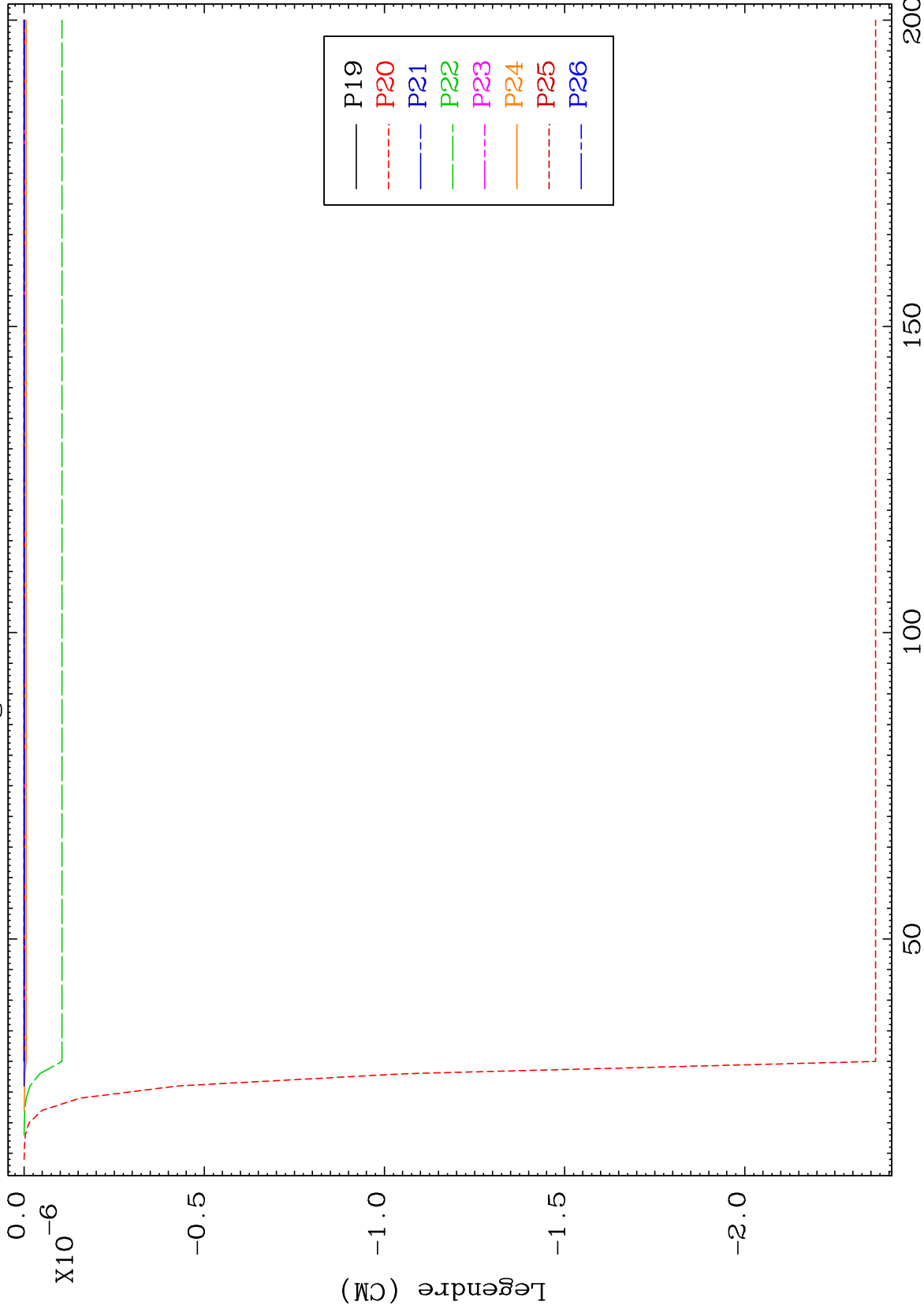
79

57-La-140

MAT 5731

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

57-La-140

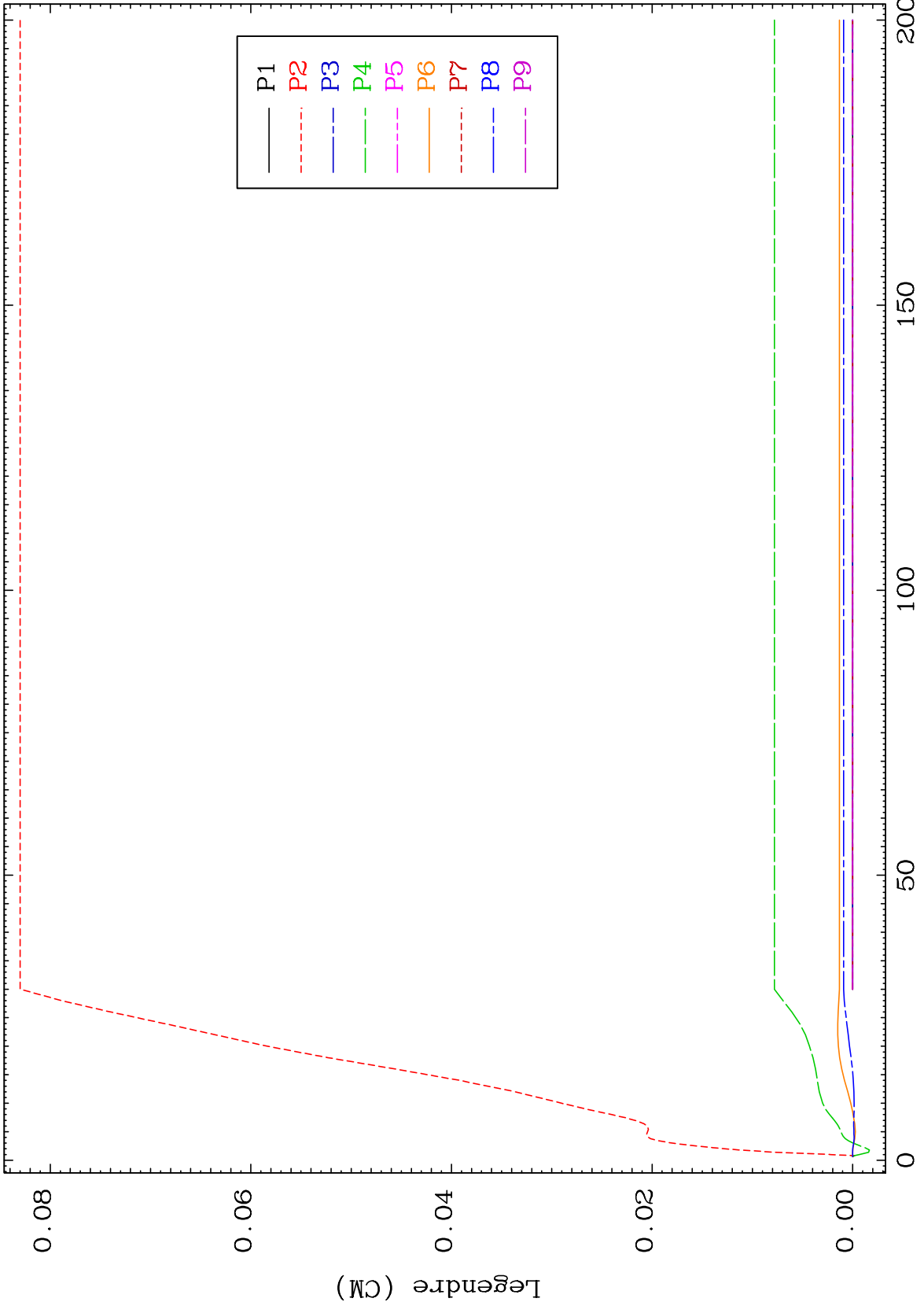


57-La-140

Incident Energy (MeV)

80

MAT 5731 MT= 69 (n,n') Level Legendre Coefficients 57-La-140

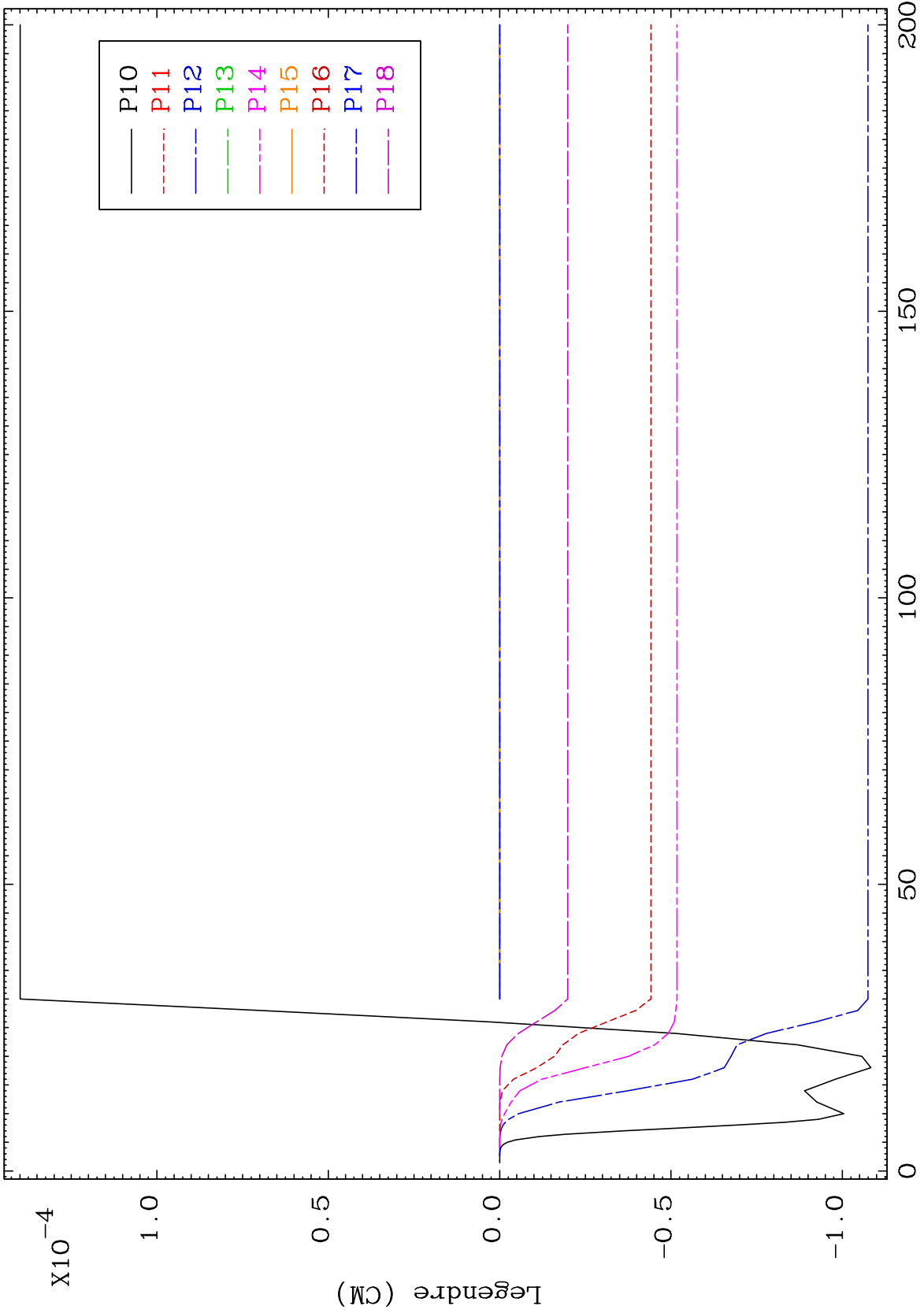


81 57-La-140

MAT 5731

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

57-La-140

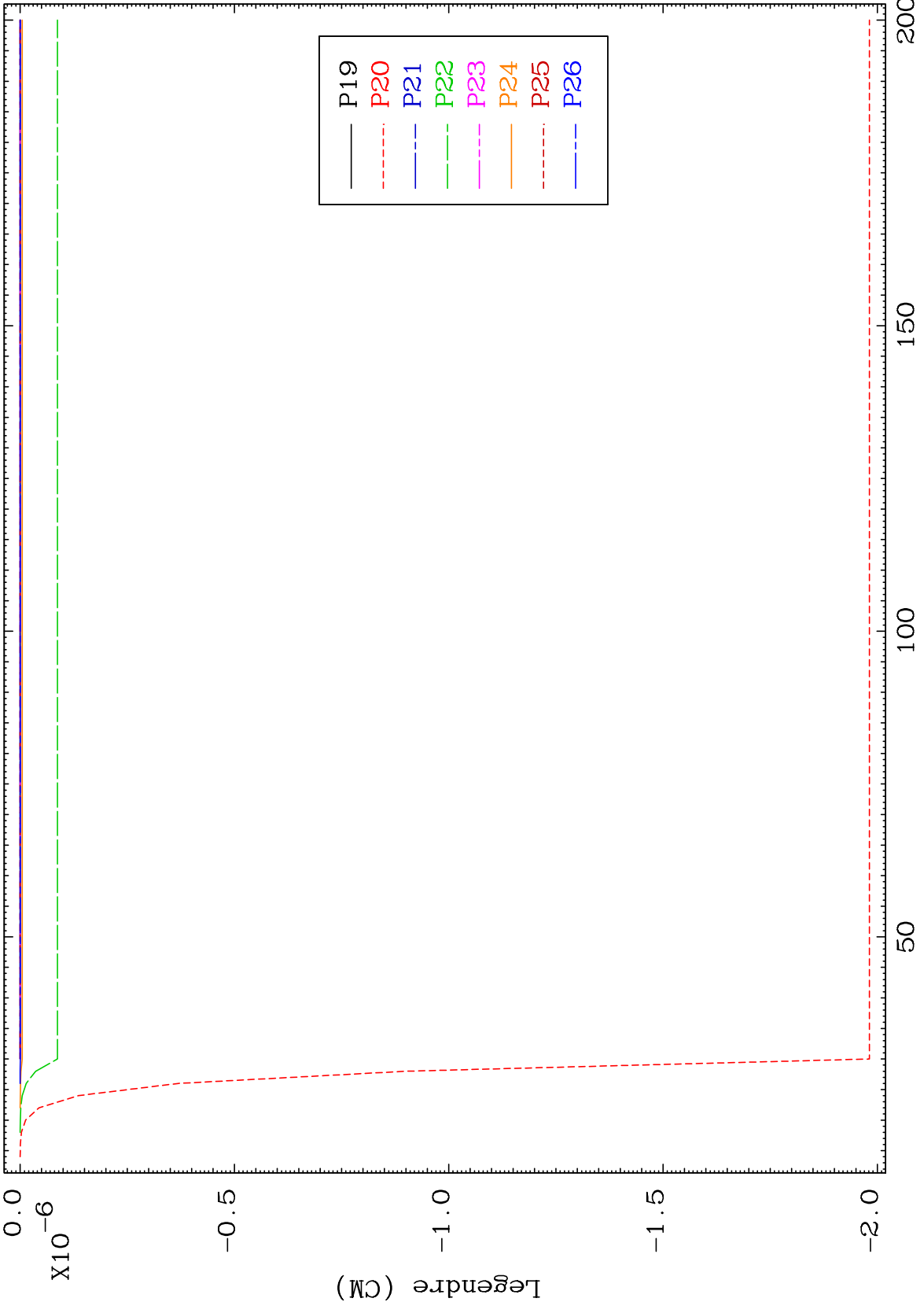


82

Incident Energy (MeV)

57-La-140

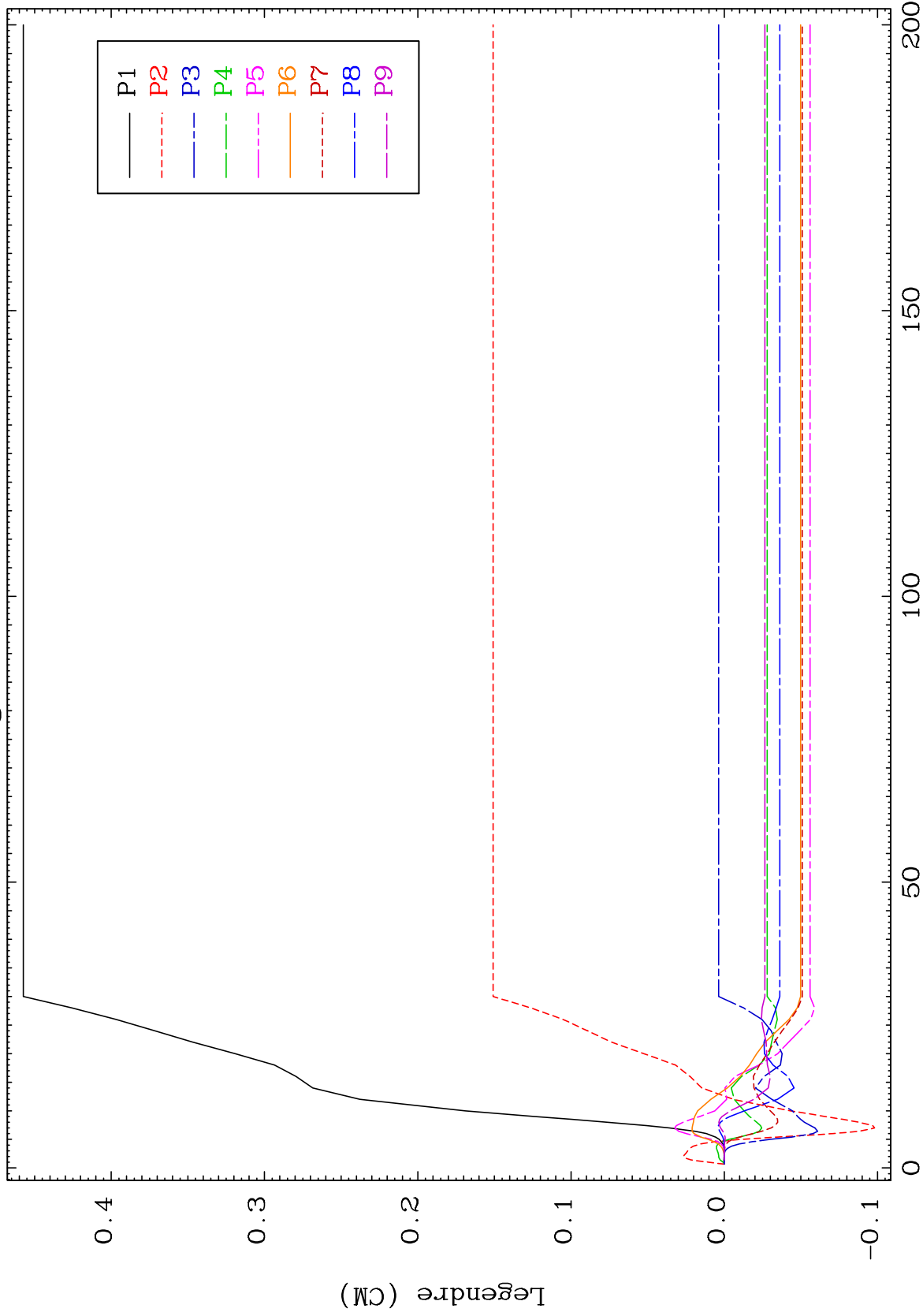
MAT 5731 MT= 69 (n,n') Level Legendre Coefficients 57-La-140



MAT 5731

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

57-La-140



84

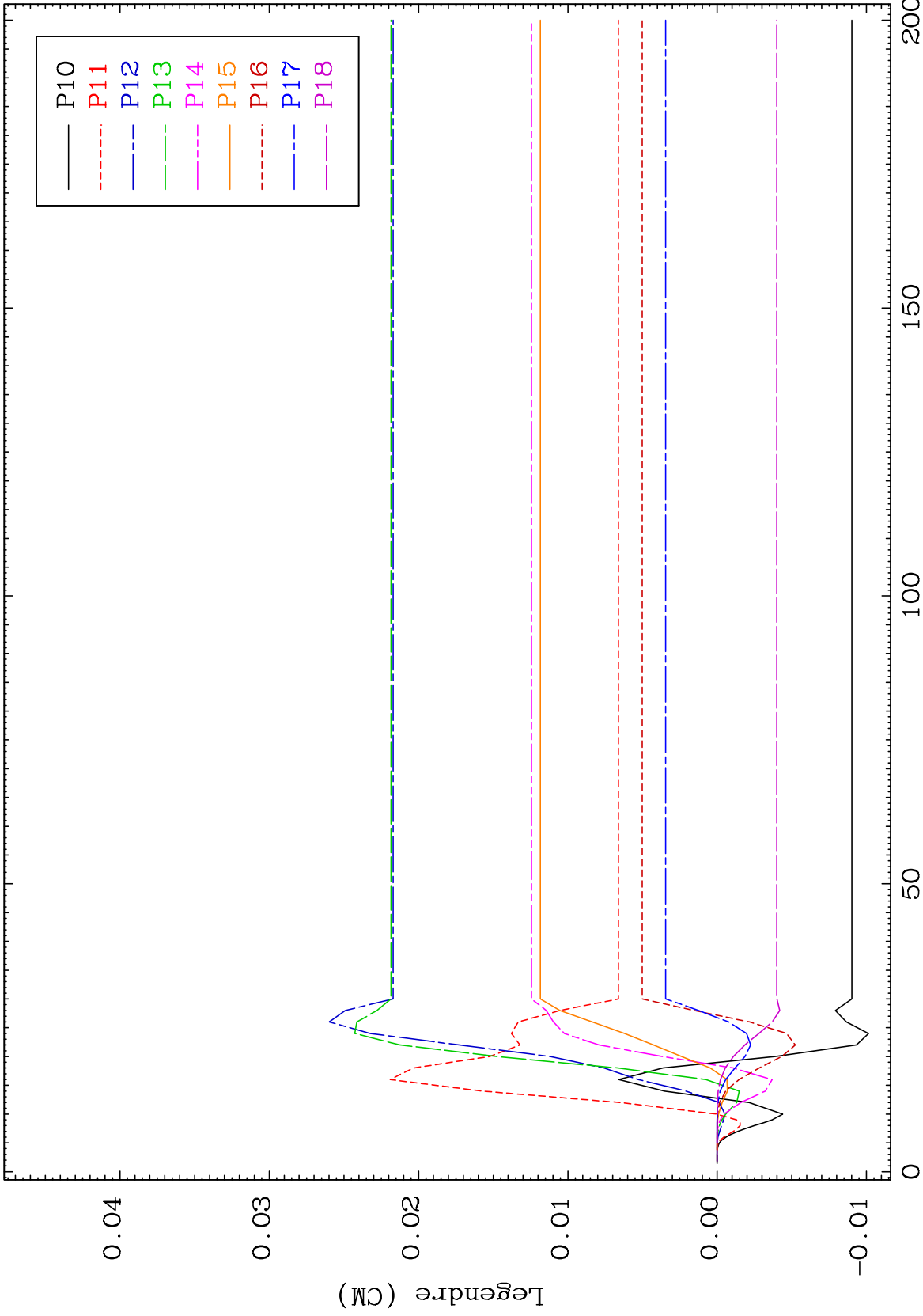
Incident Energy (MeV)

57-La-140

MAT 5731

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

57-La-140



85

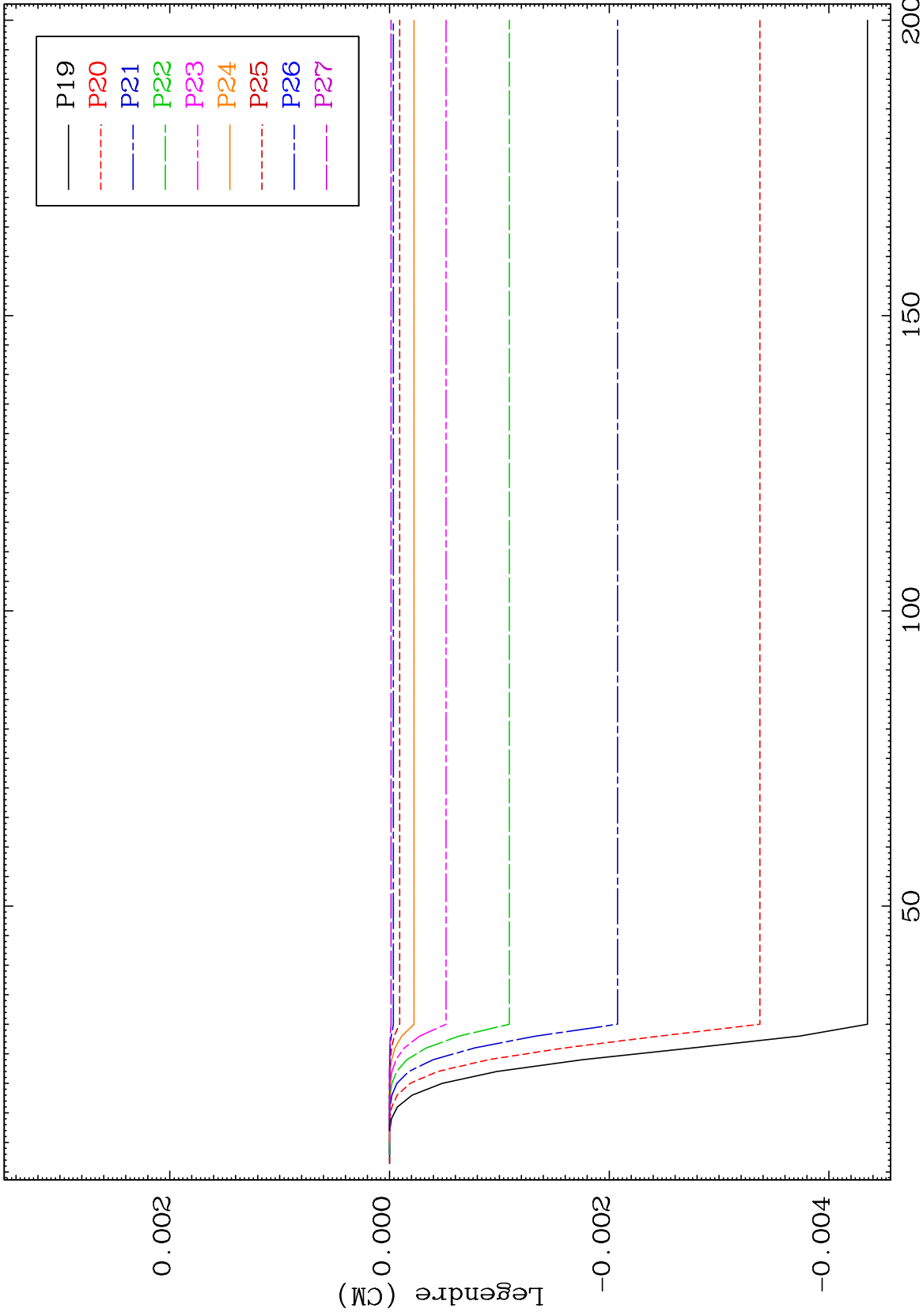
Incident Energy (MeV)

57-La-140

MAT 5731

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

57-La-140

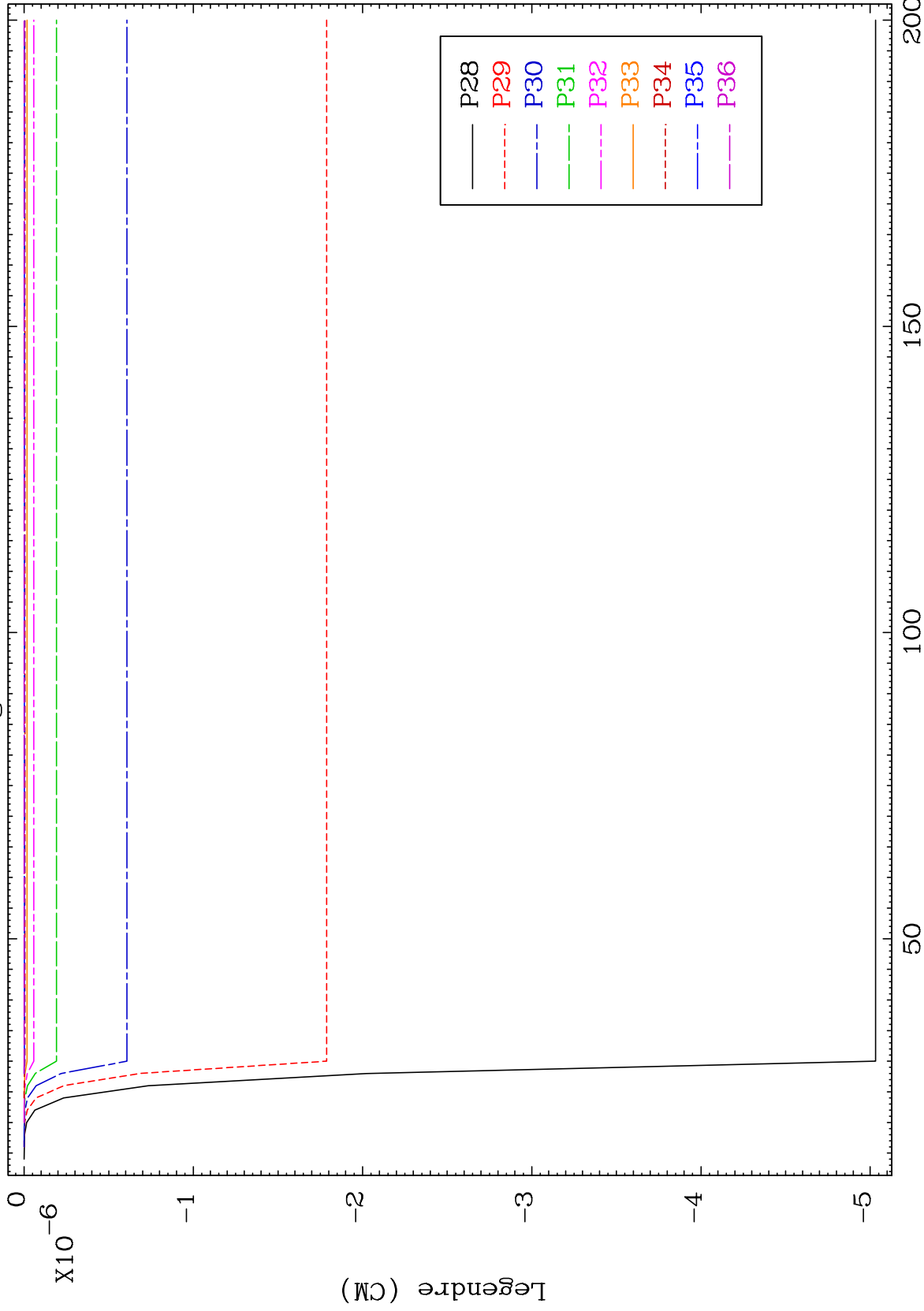


86

Incident Energy (MeV)

57-La-140

MAT 5731 MT= 70 (n,n') Level Legendre Coefficients 57-La-140

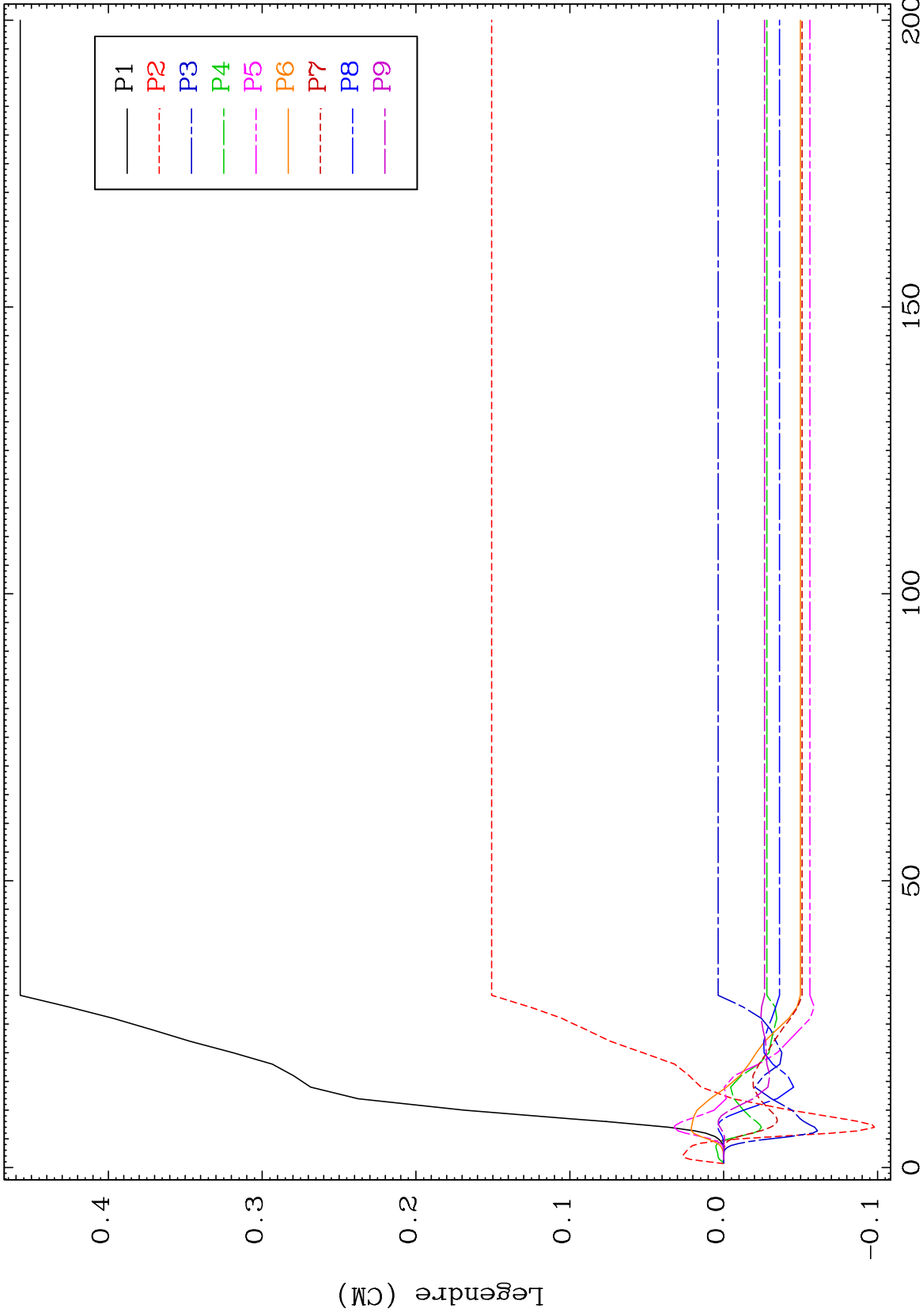


87 57-La-140

MAT 5731

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

57-La-140



88

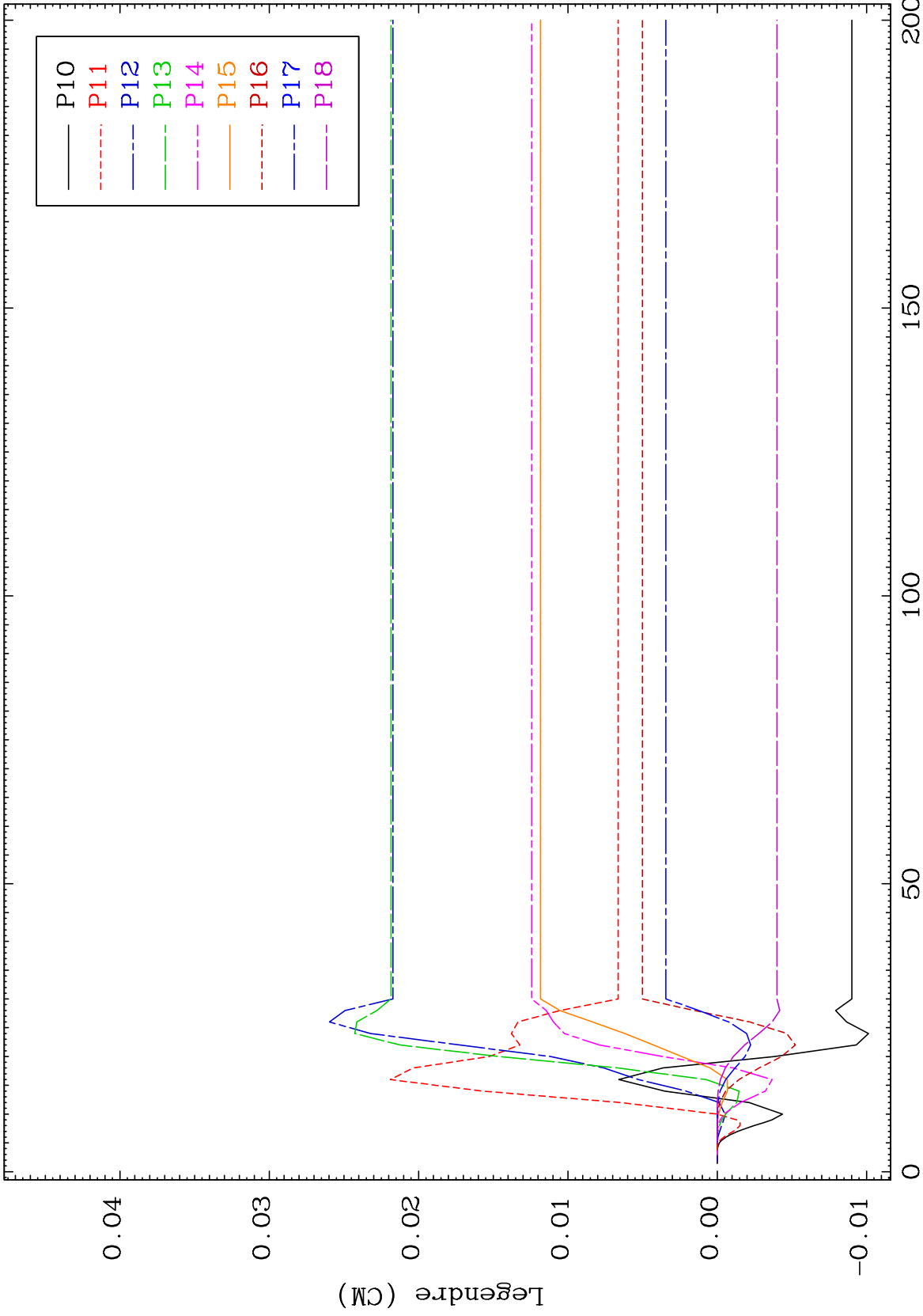
Incident Energy (MeV)

57-La-140

MAT 5731

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

57-La-140



89

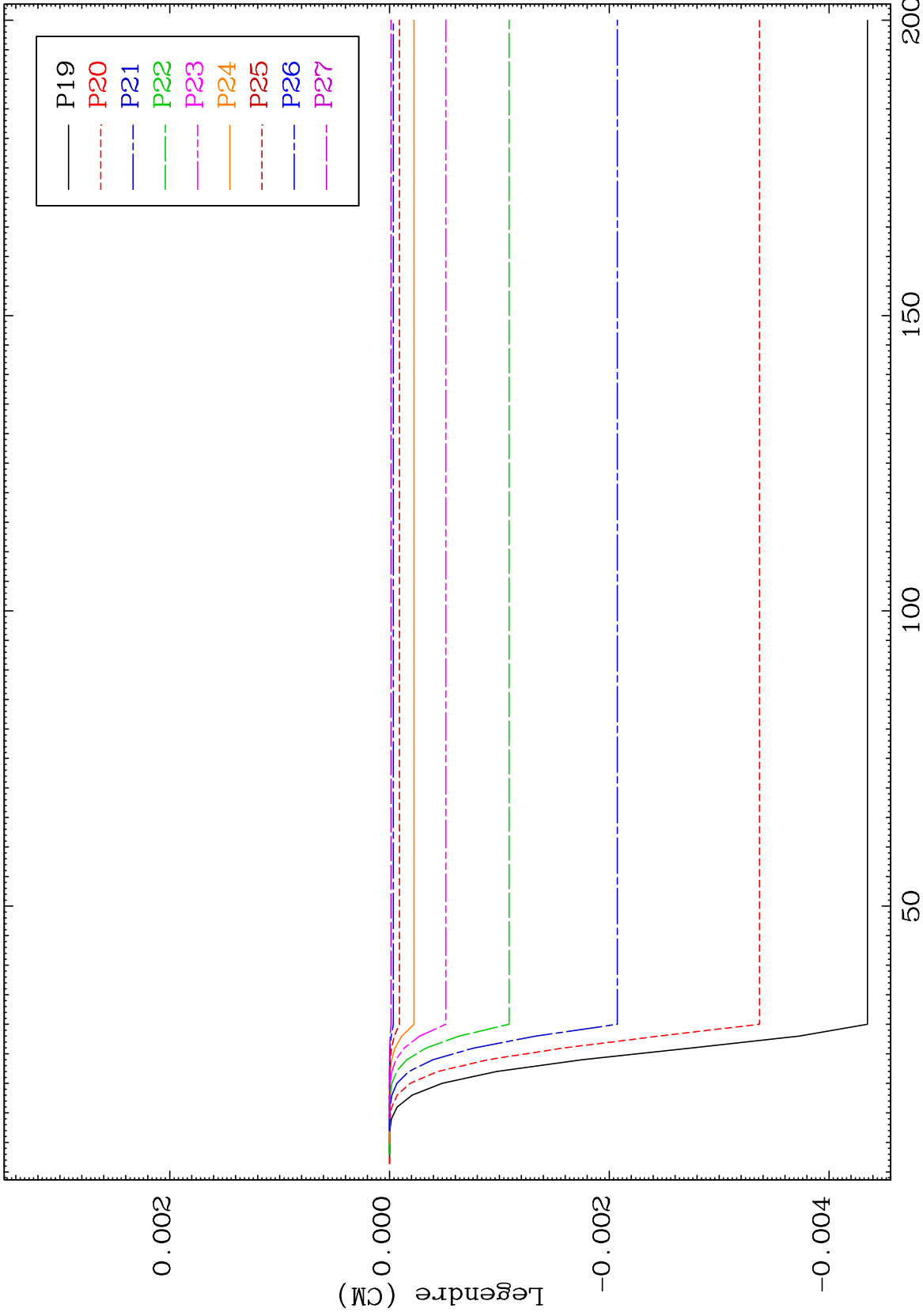
Incident Energy (MeV)

57-La-140

MAT 5731

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

57-La-140

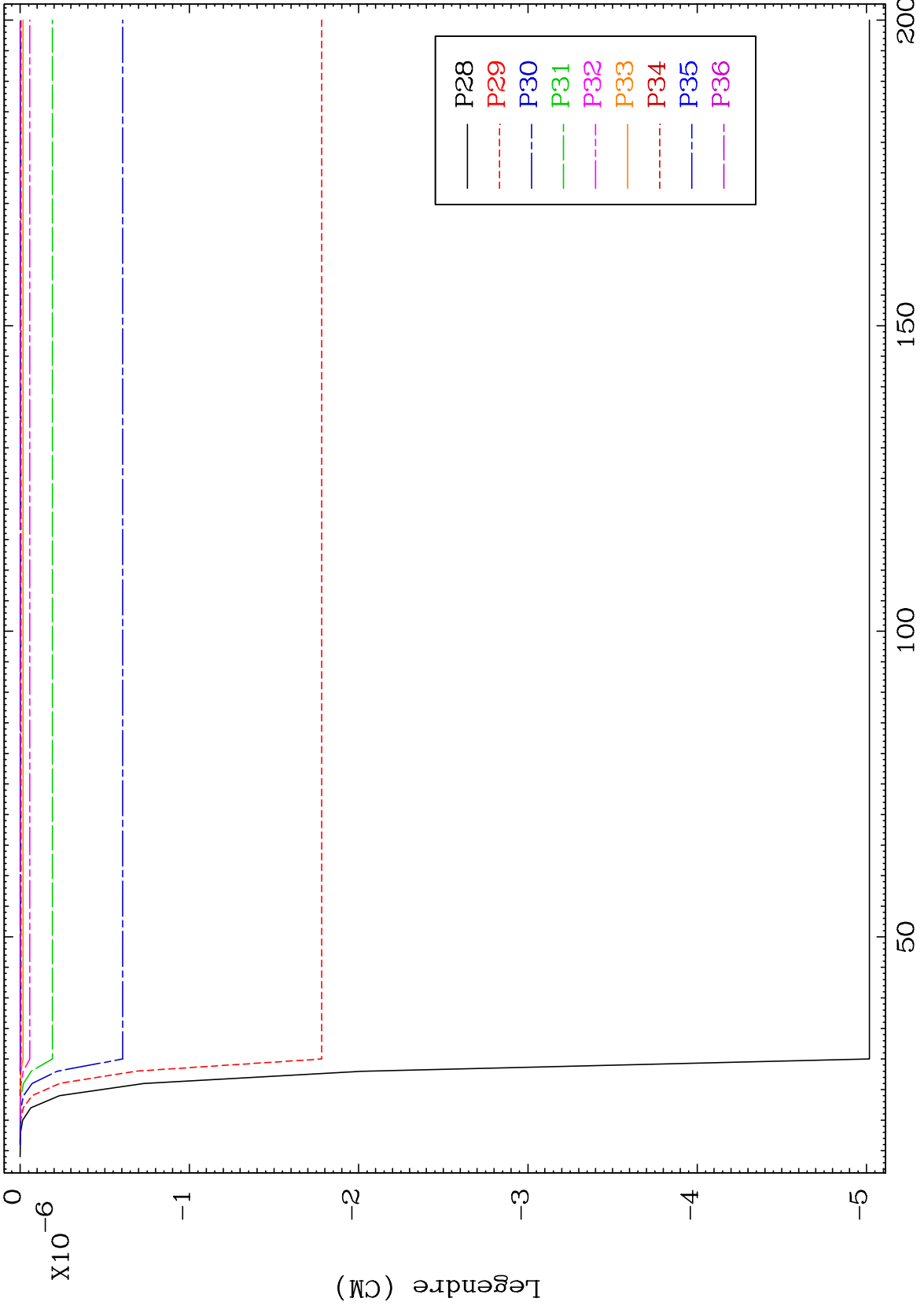


90

Incident Energy (MeV)

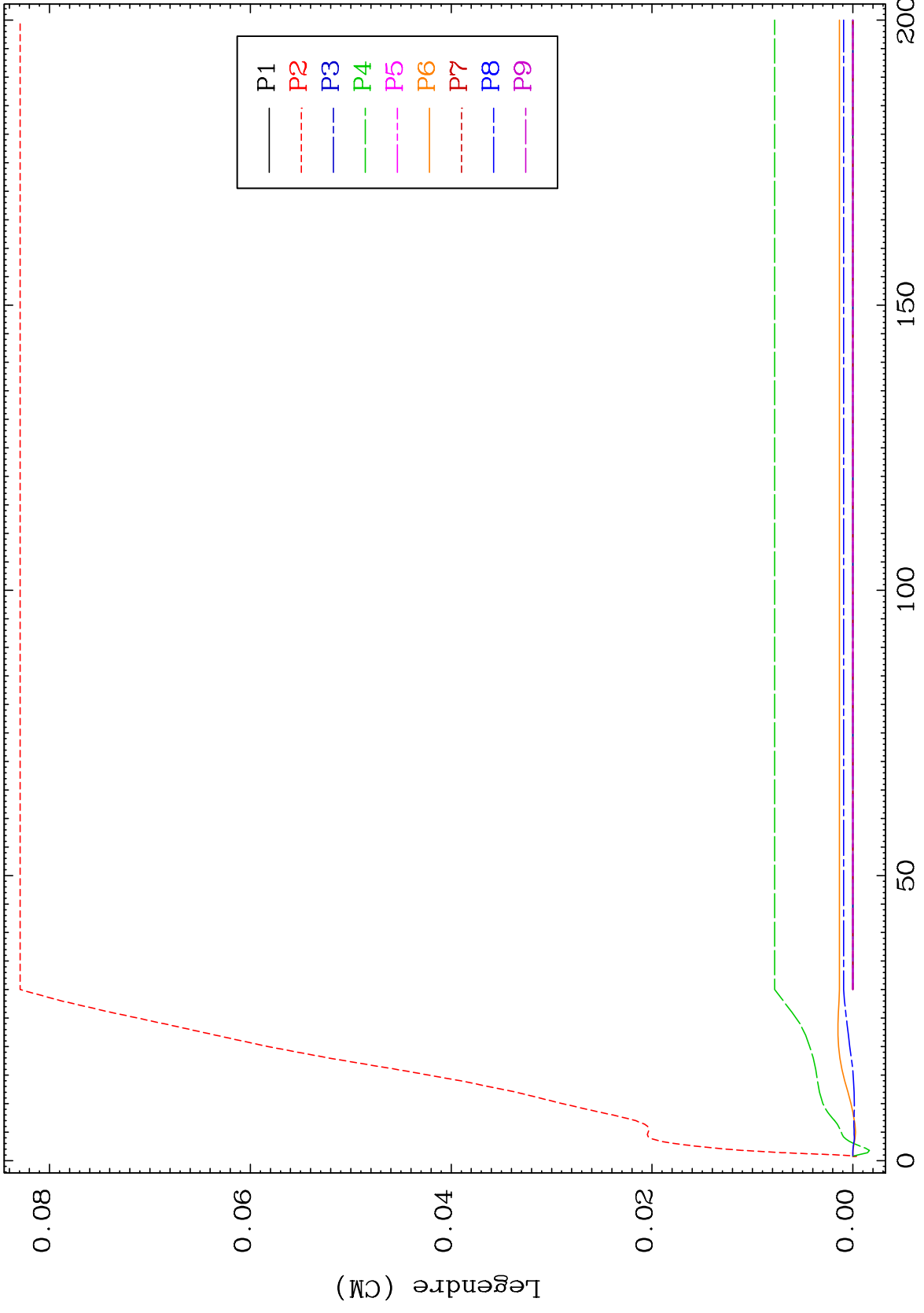
57-La-140

MAT 5731 MT= 71 (n,n') Level Legendre Coefficients 57-La-140



91 57-La-140

MAT 5731 MT= 72 (n,n') Level Legendre Coefficients 57-La-140

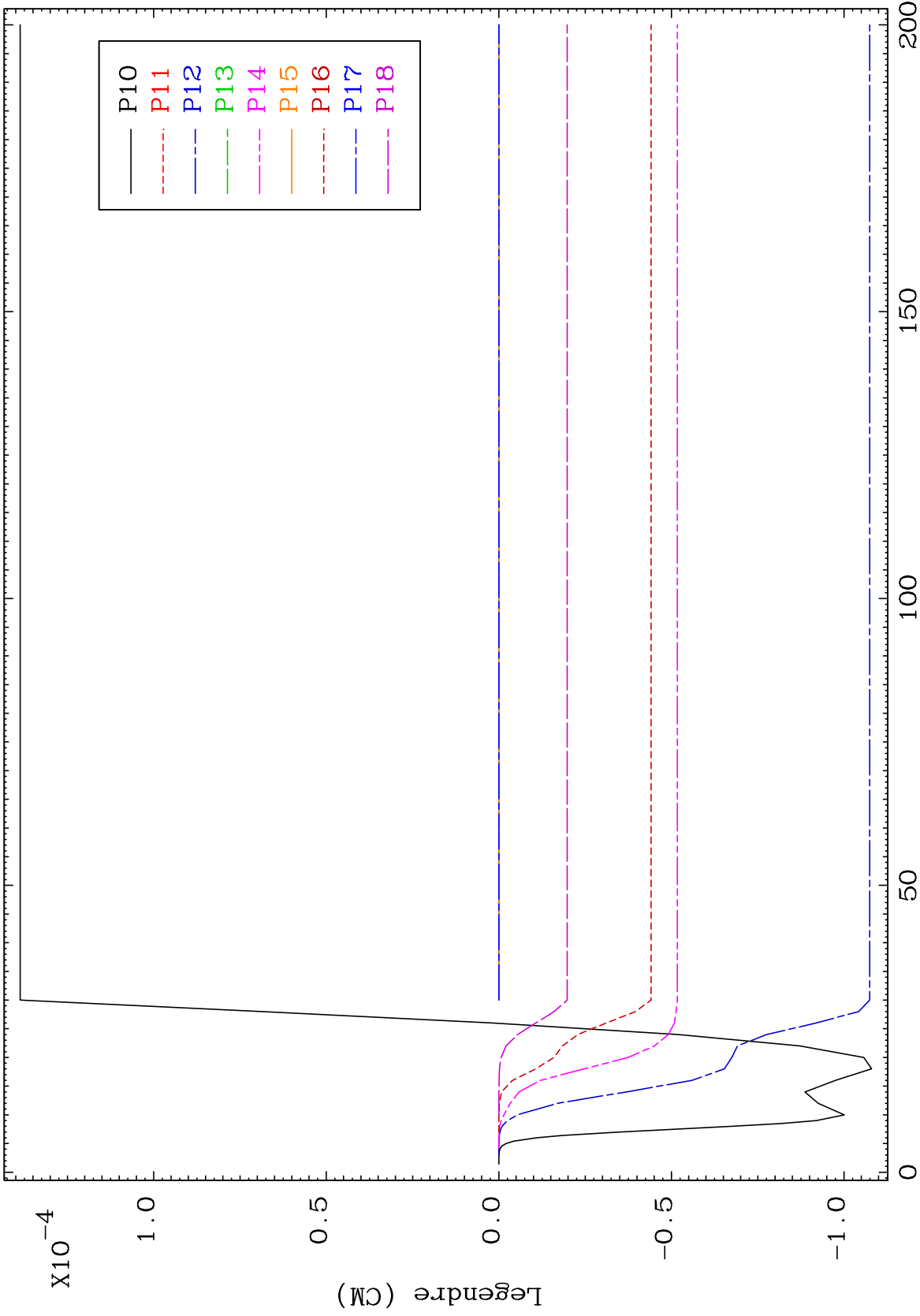


92 57-La-140

MAT 5731

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

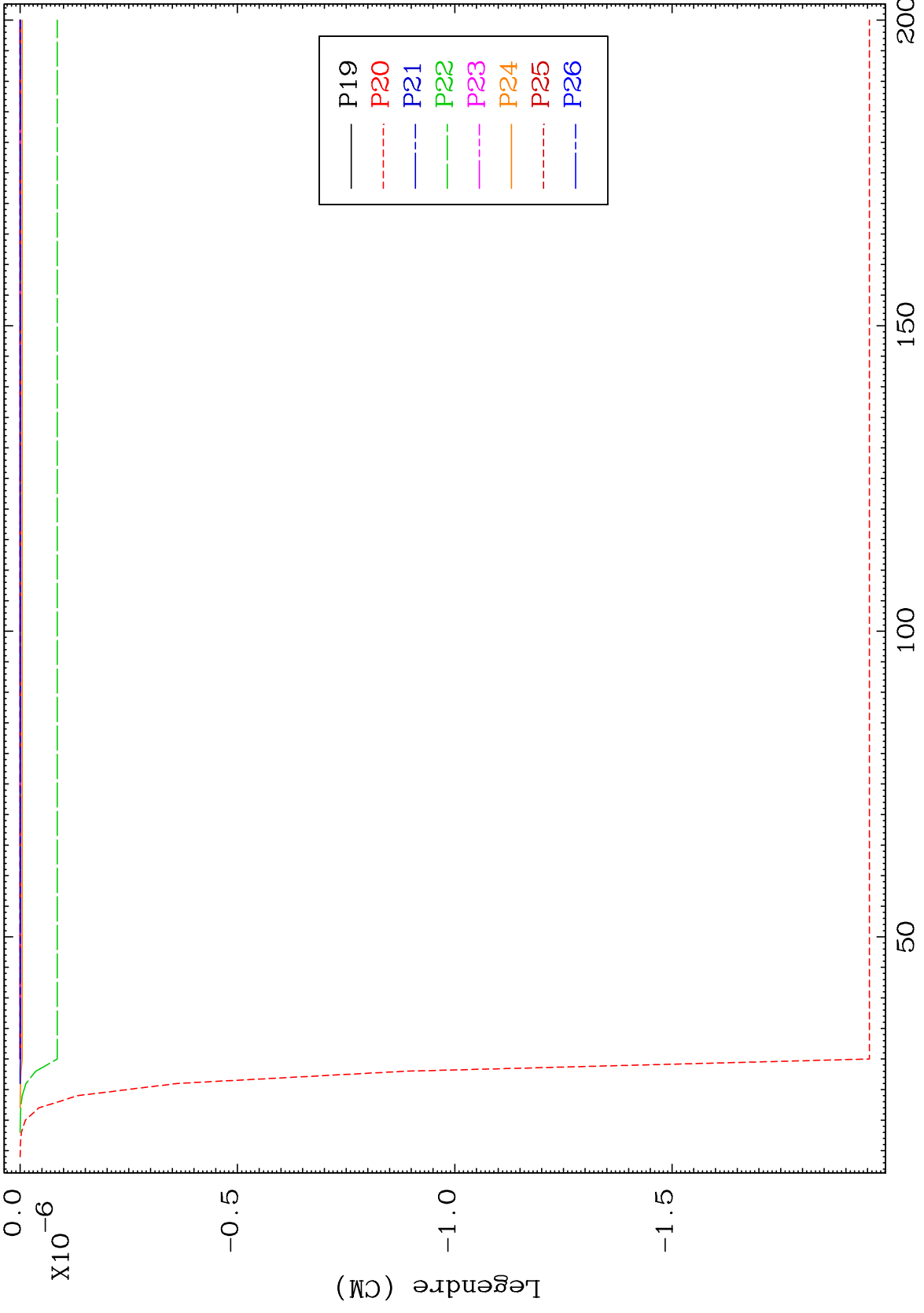
57-La-140



93

57-La-140

MAT 5731 MT= 72 (n,n') Level Legendre Coefficients 57-La-140

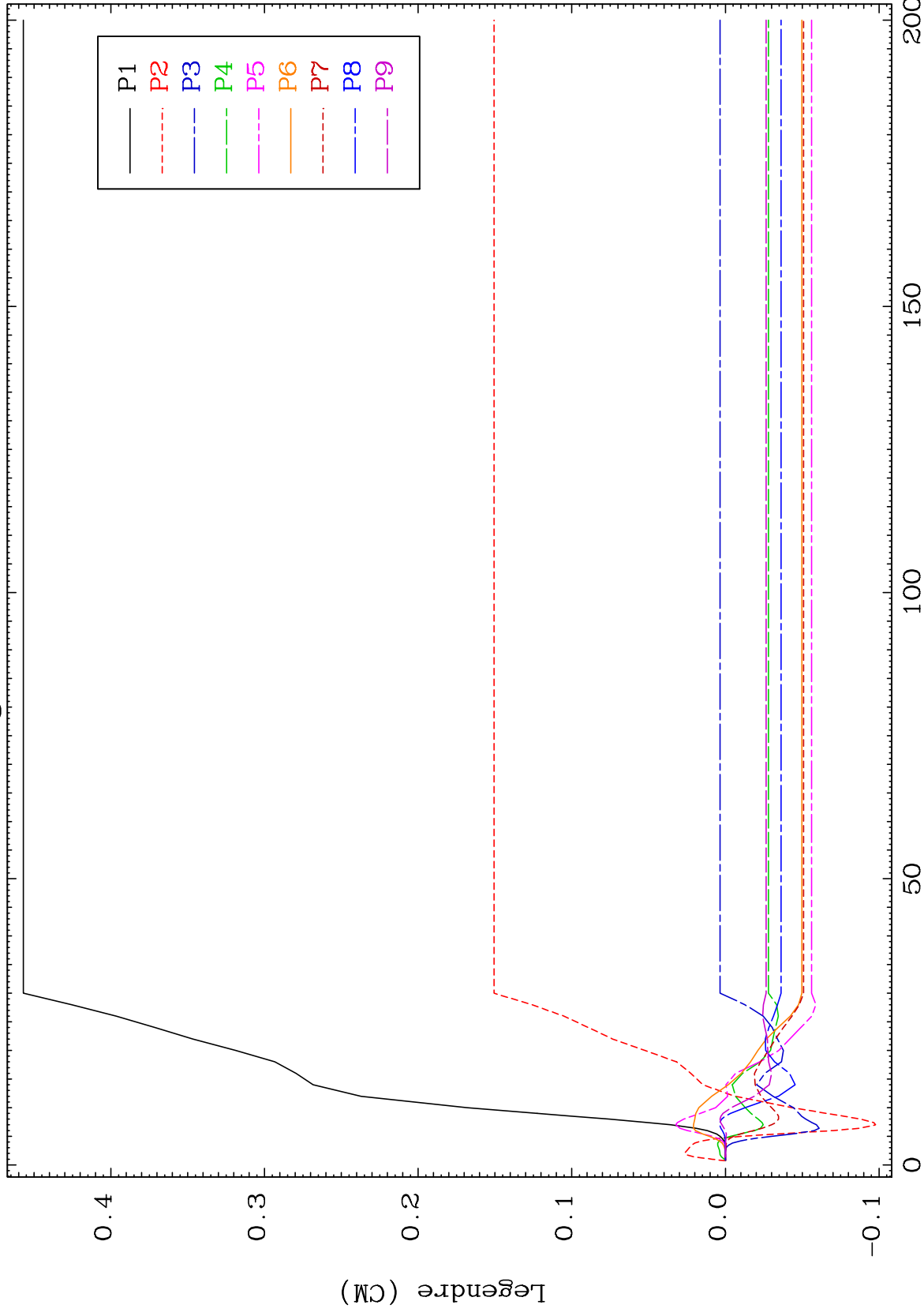


94 57-La-140

MAT 5731

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

57-La-140



57-La-140

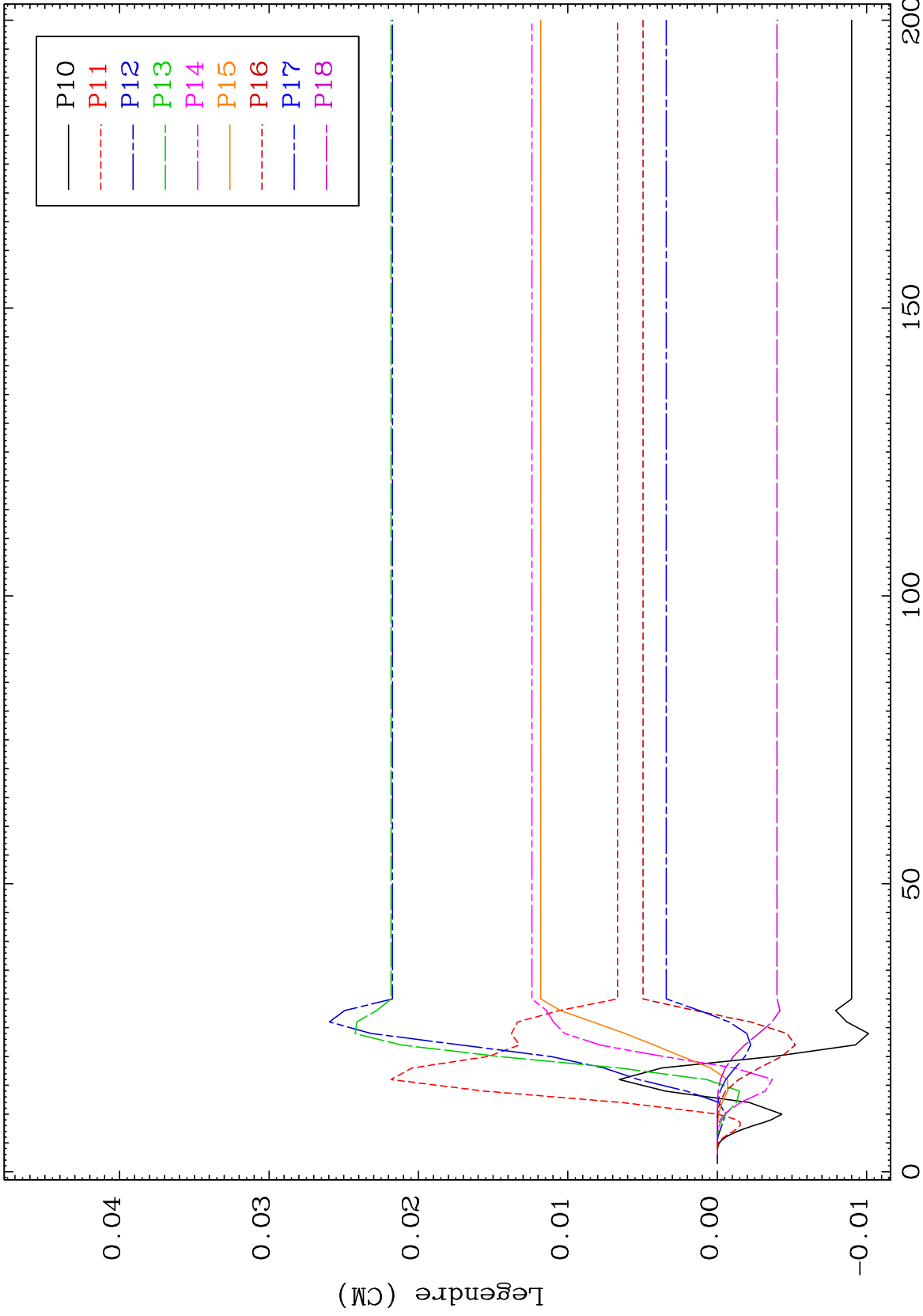
Incident Energy (MeV)

95

MAT 5731

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

57-La-140



96

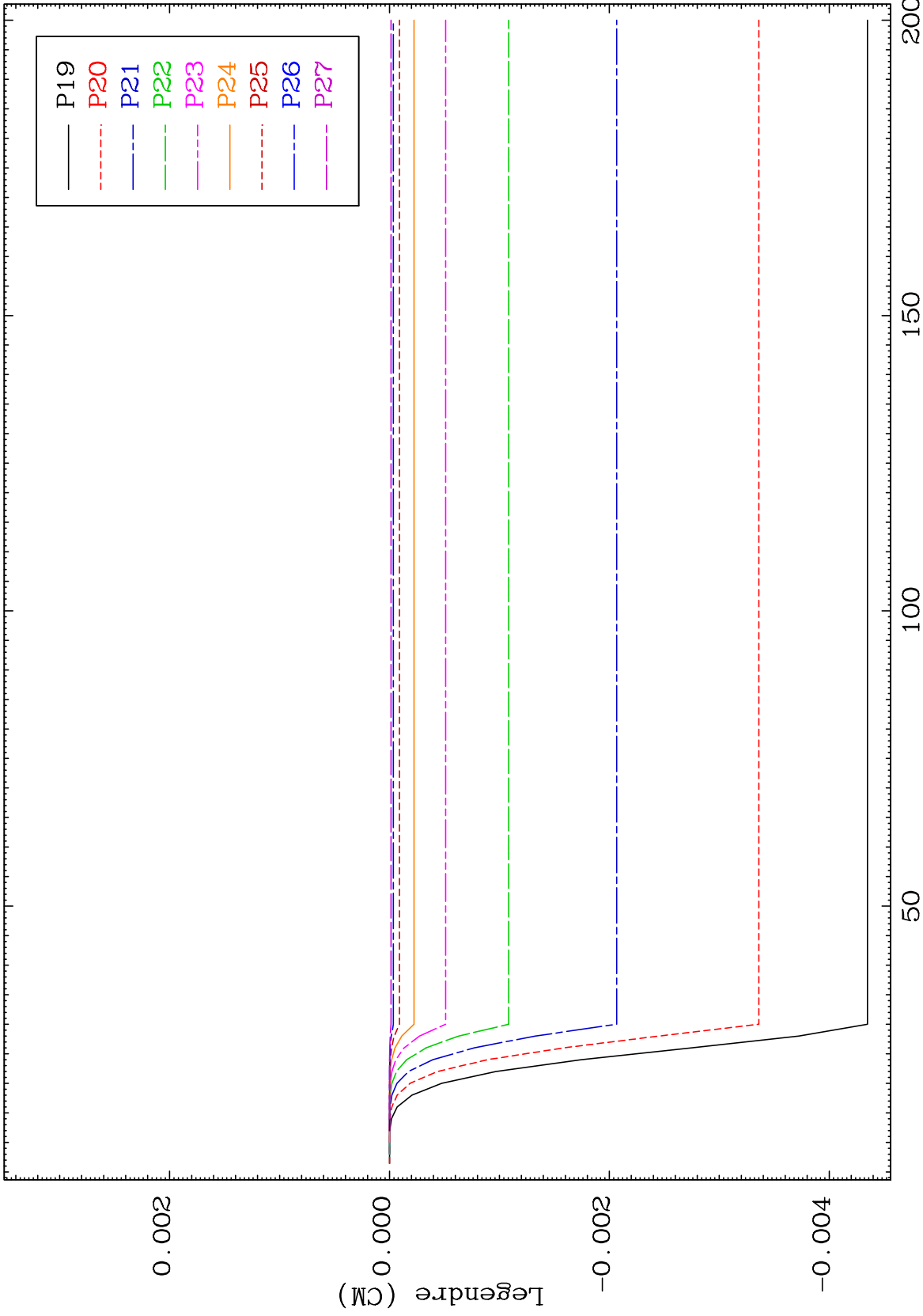
Incident Energy (MeV)

57-La-140

MAT 5731

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

57-La-140

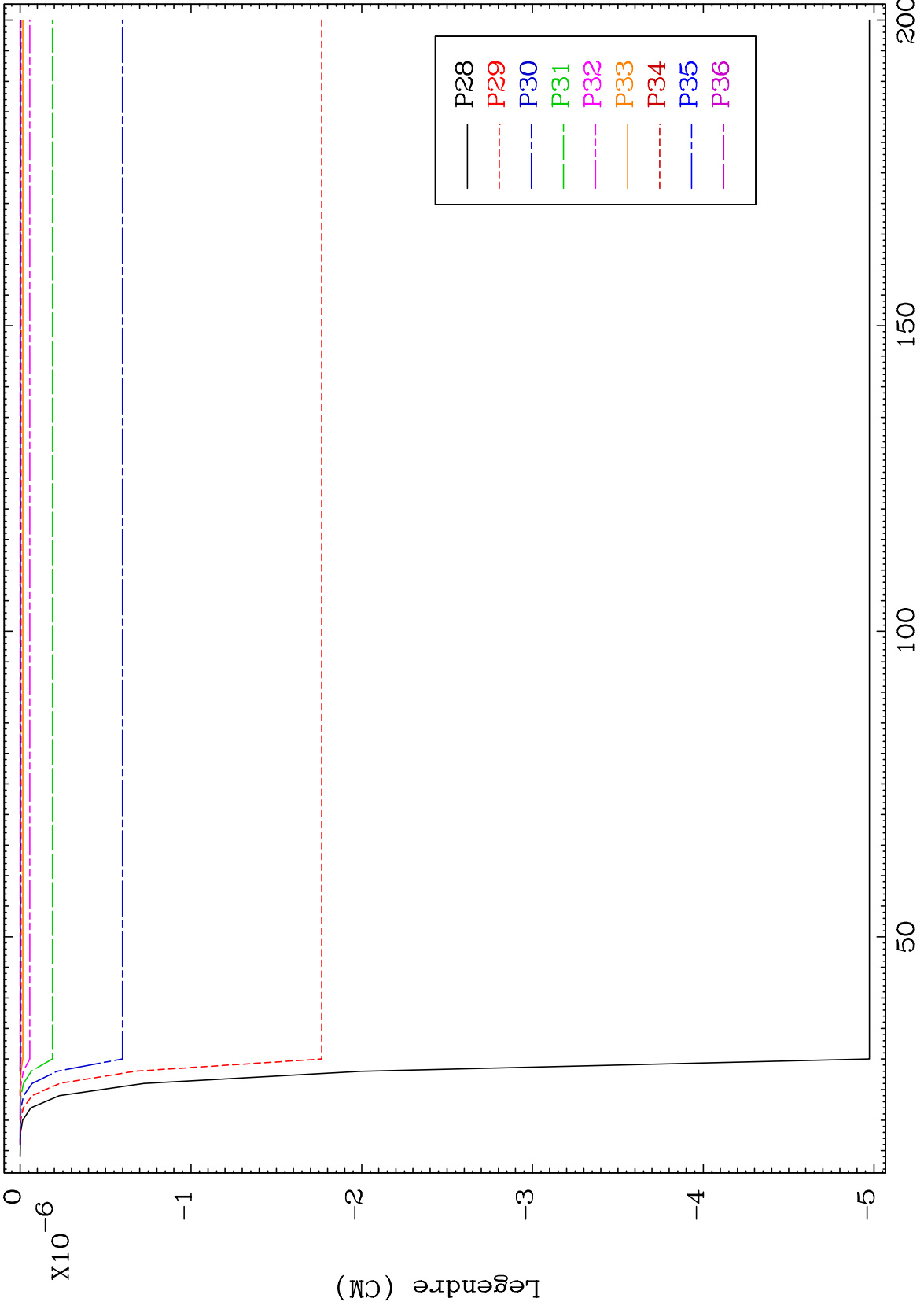


97

Incident Energy (MeV)

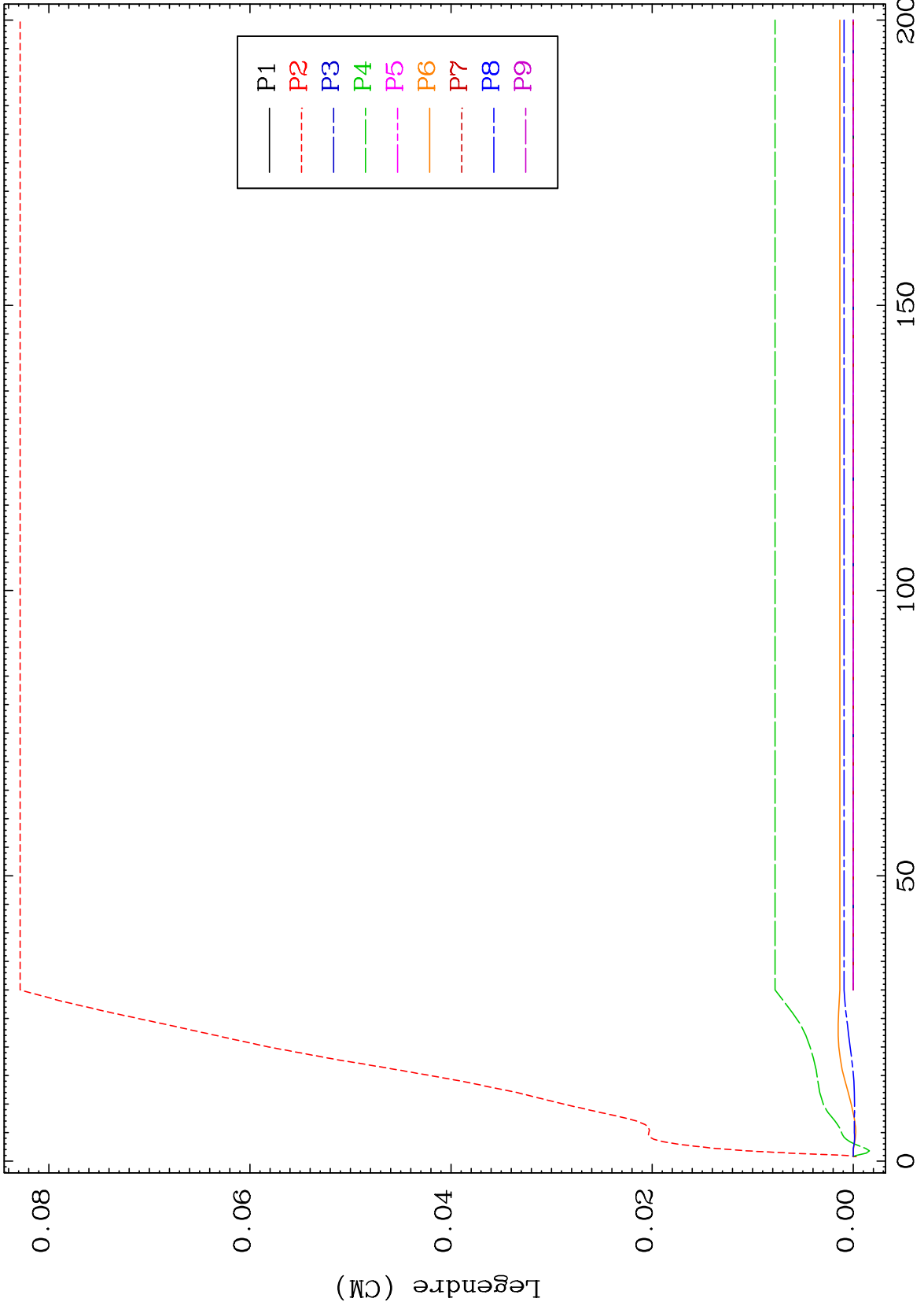
57-La-140

MAT 5731 MT= 73 (n,n') Level Legendre Coefficients 57-La-140



98 57-La-140

MAT 5731 MT= 74 (n,n') Level Legendre Coefficients 57-La-140

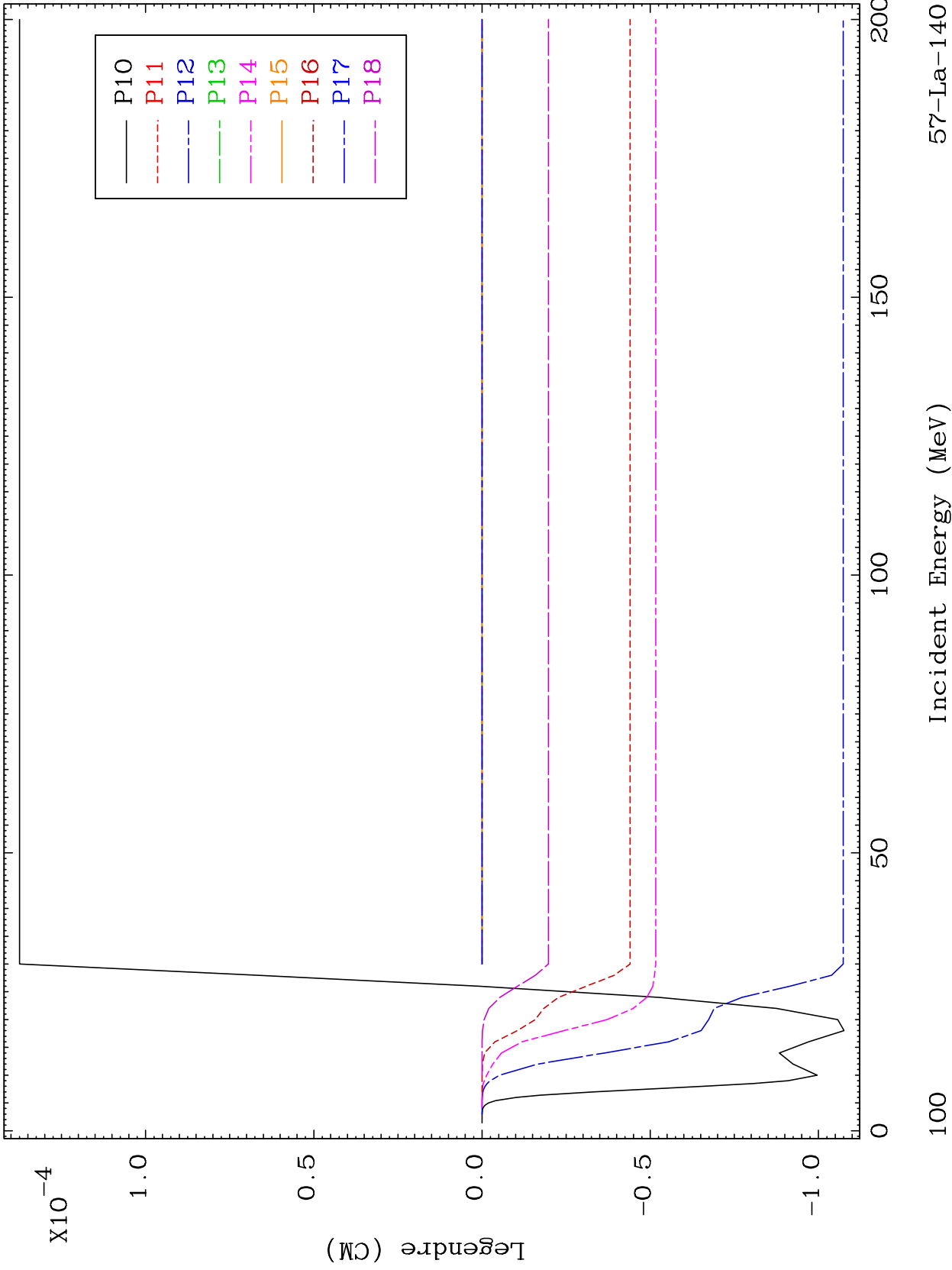


99 57-La-140

MAT 5731

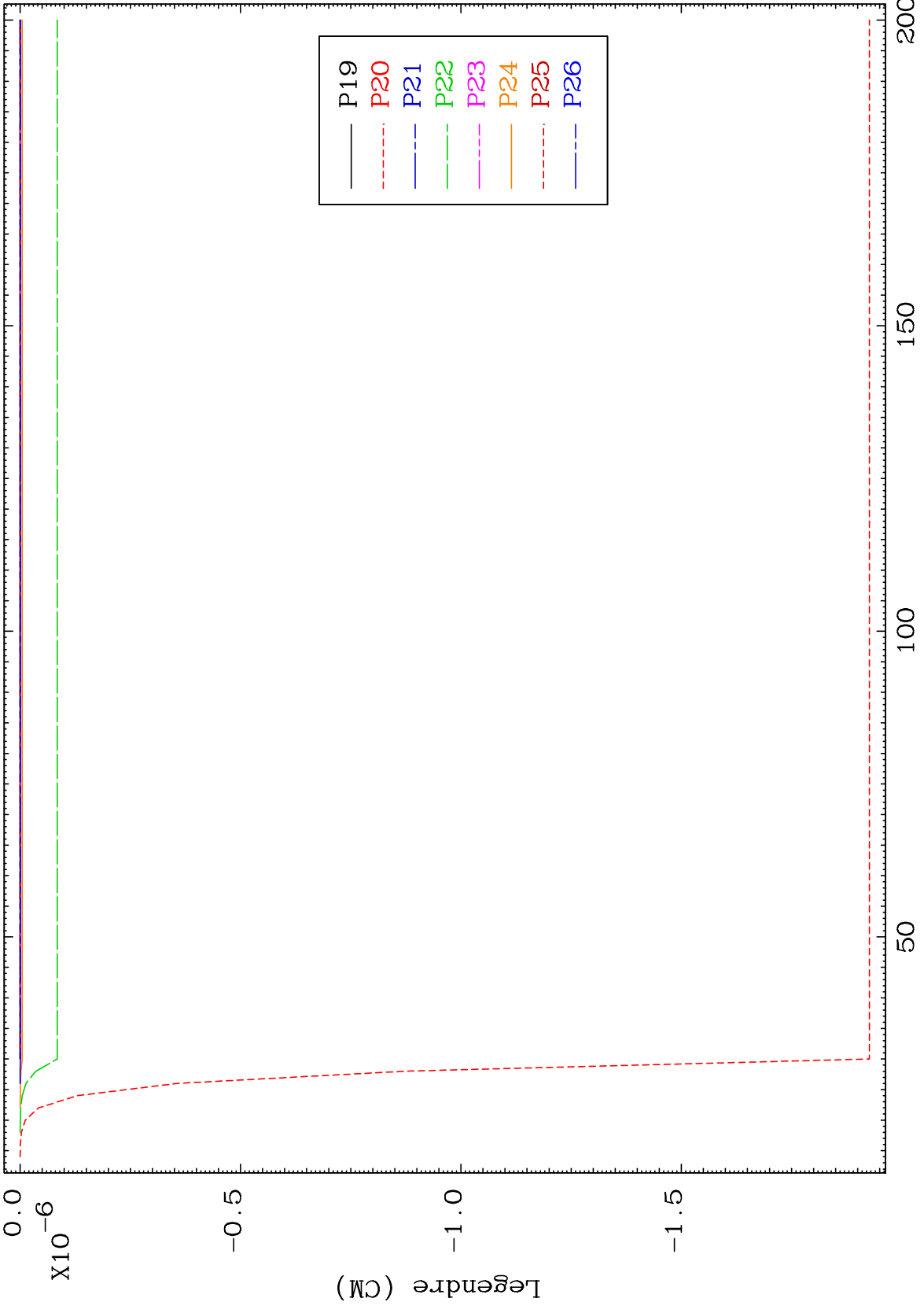
MT= 74 (n,n') Level  
Legendre Coefficients

57-La-140



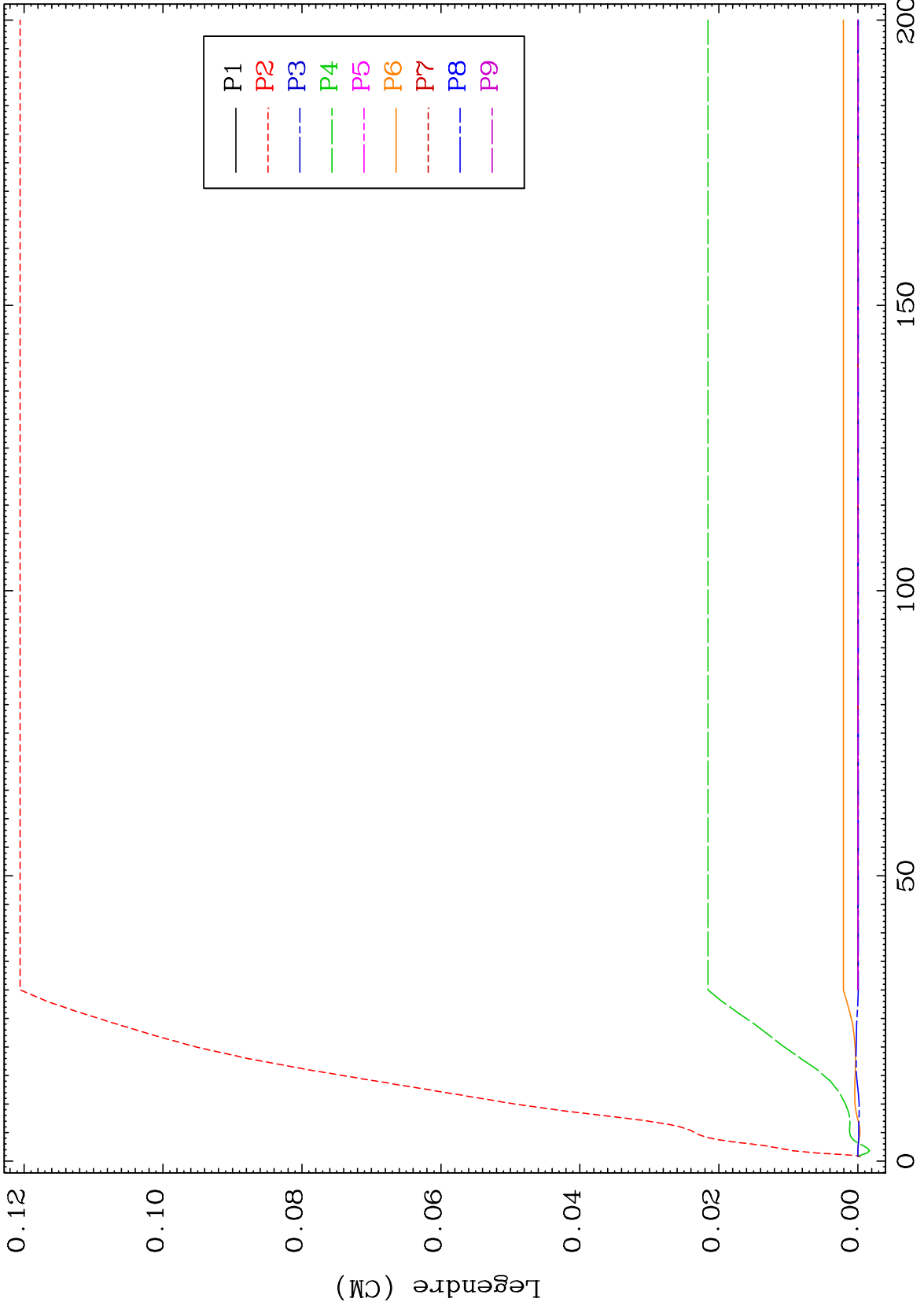
57-La-140

MAT 5731 MT= 74 (n,n') Level Legendre Coefficients 57-La-140



101 57-La-140

MAT 5731 MT= 75 (n,n') Level Legendre Coefficients 57-La-140

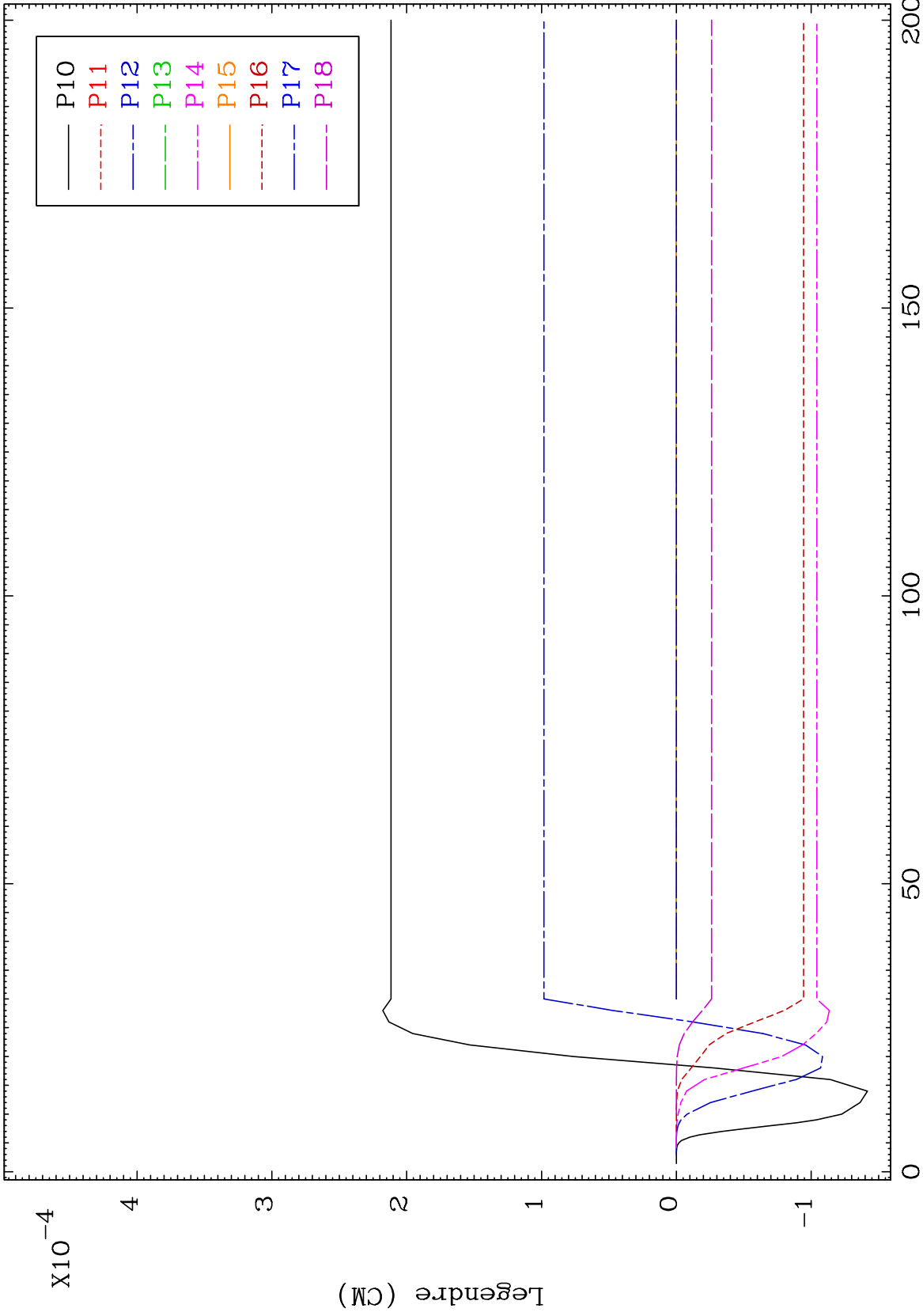


102 Incident Energy (MeV) 57-La-140

MAT 5731

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

57-La-140



103

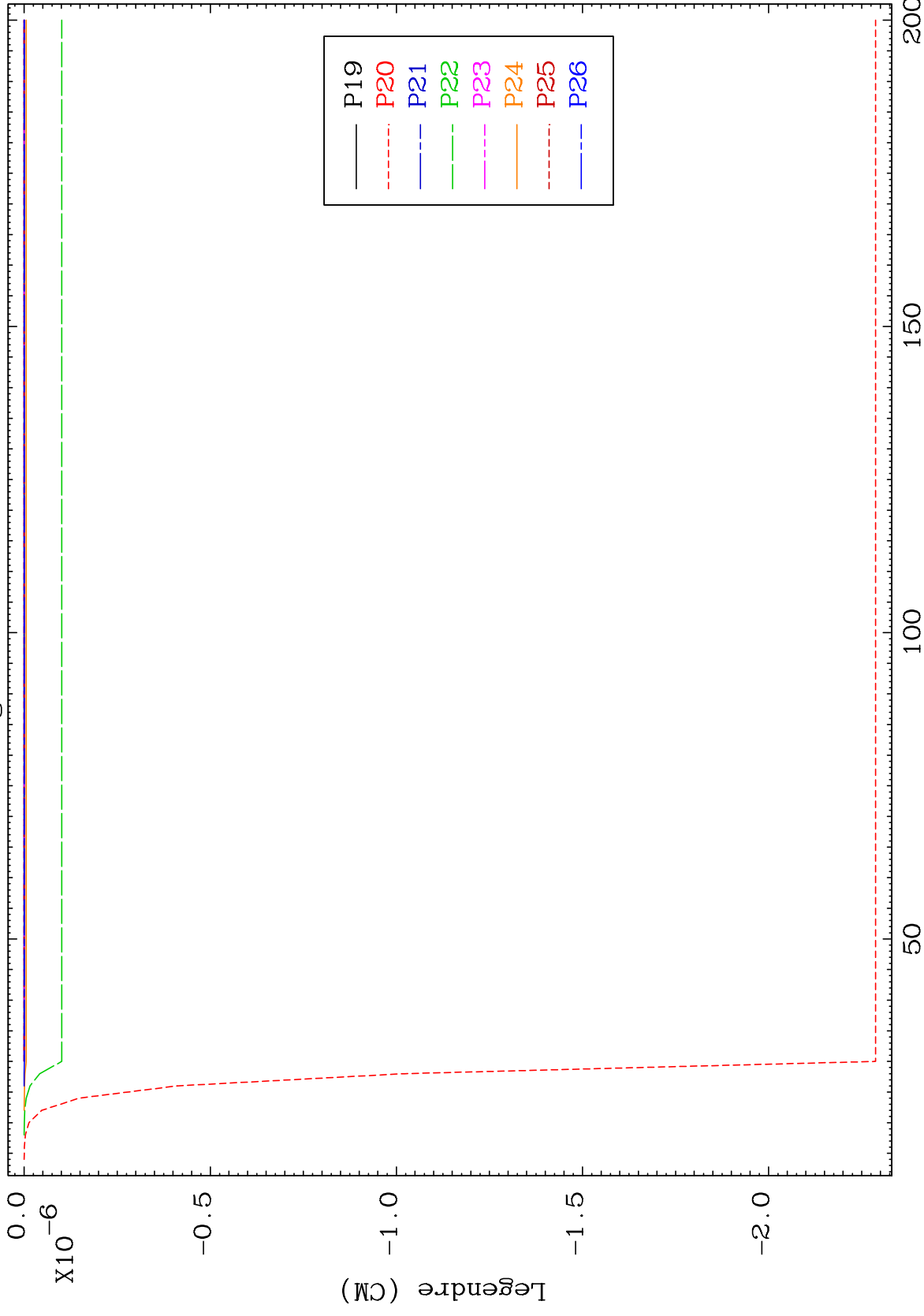
Incident Energy (MeV)

57-La-140

MAT 5731

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

57-La-140

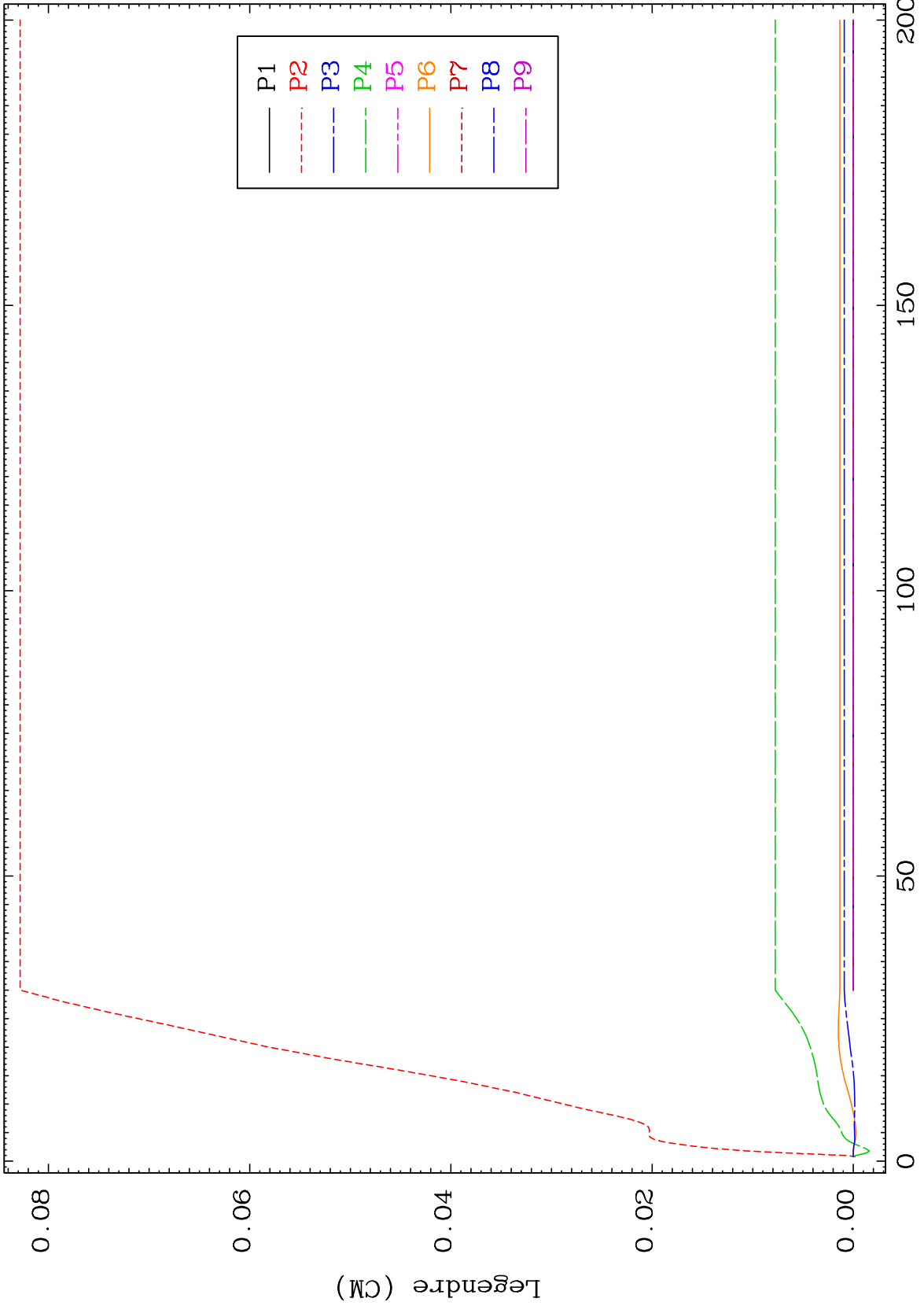


57-La-140

Incident Energy (MeV)

104

MAT 5731 MT= 76 (n,n') Level Legendre Coefficients 57-La-140

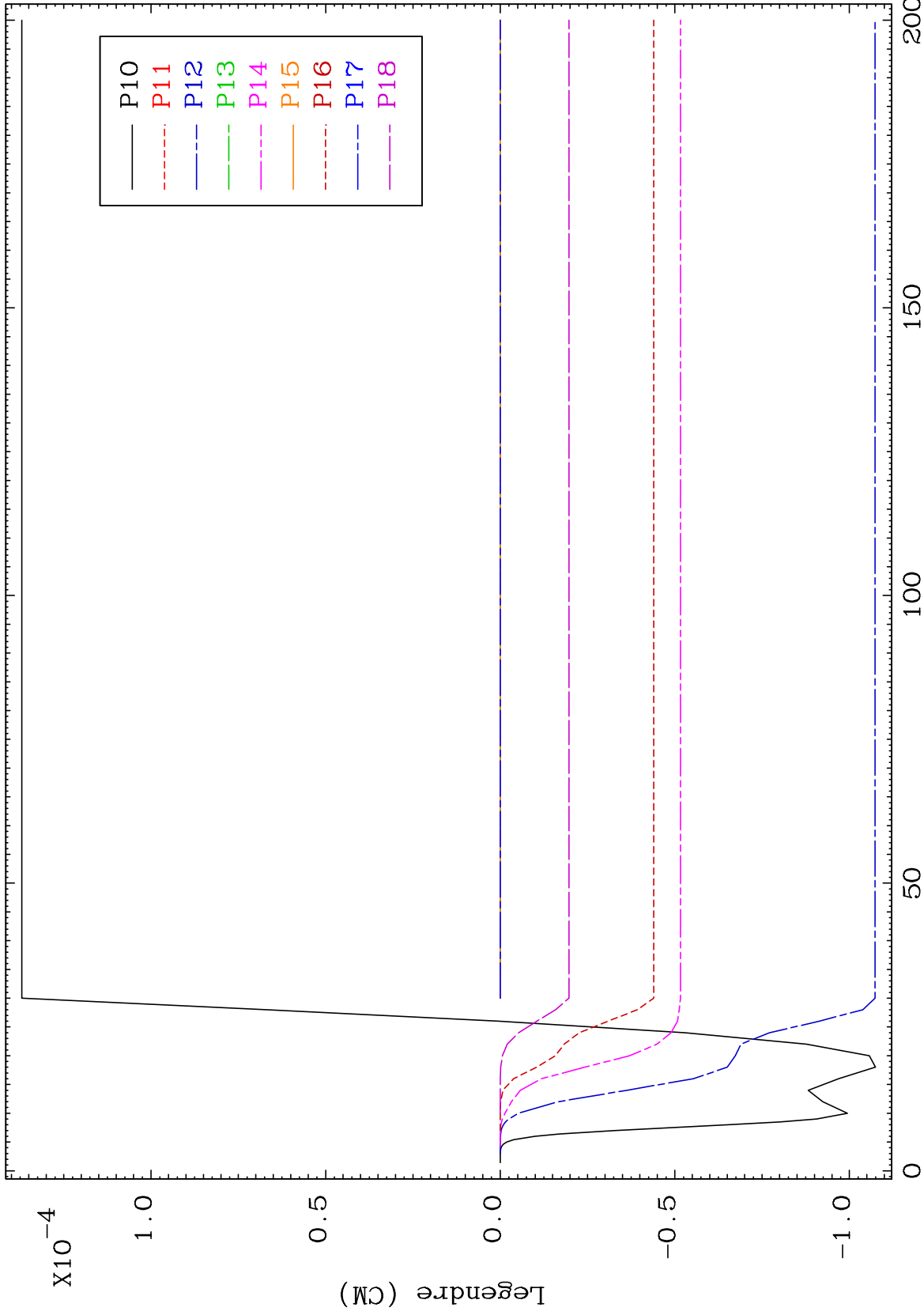


57-La-140

MAT 5731

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

57-La-140



106

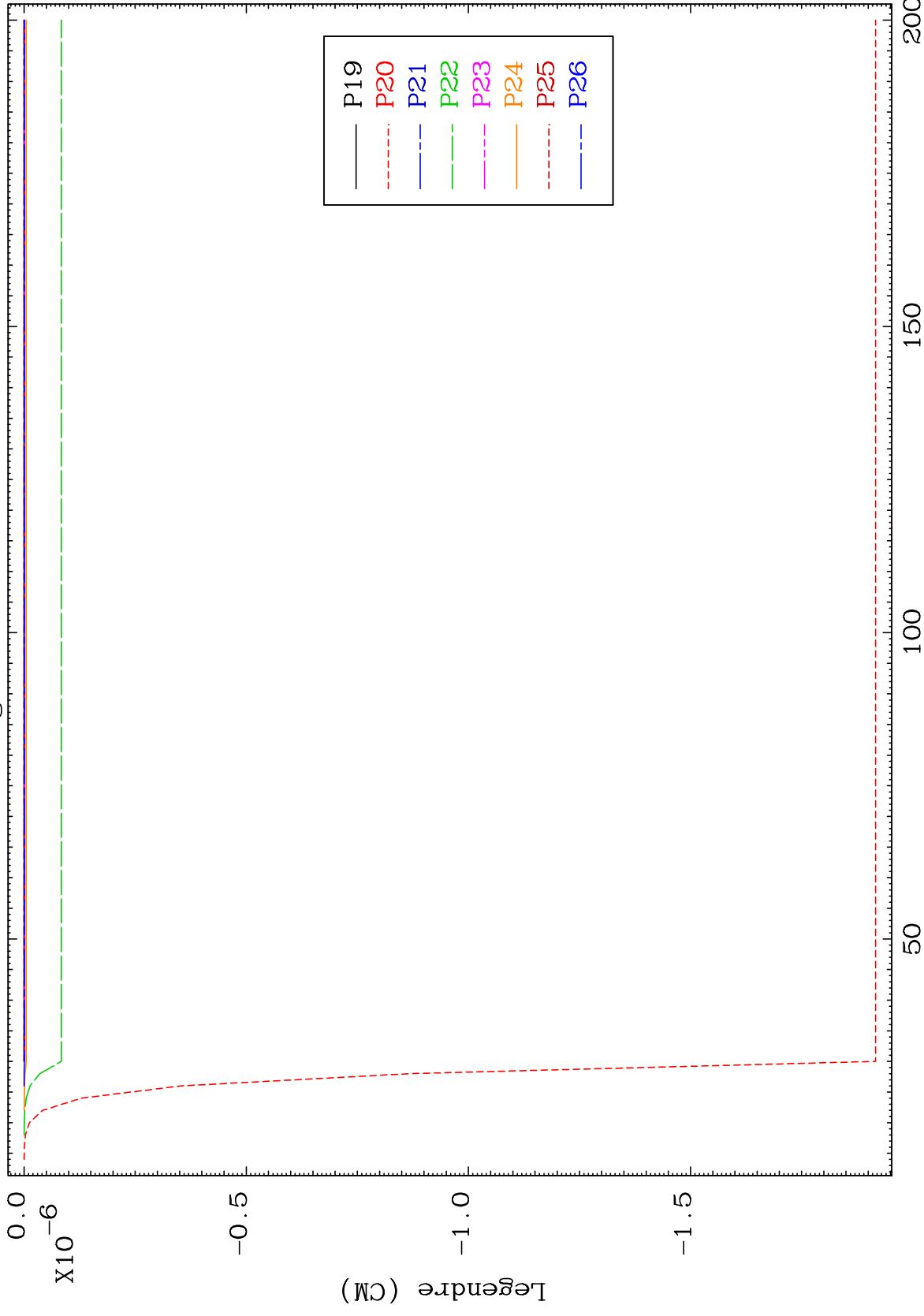
Incident Energy (MeV)

57-La-140

MAT 5731

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

57-La-140



57-La-140

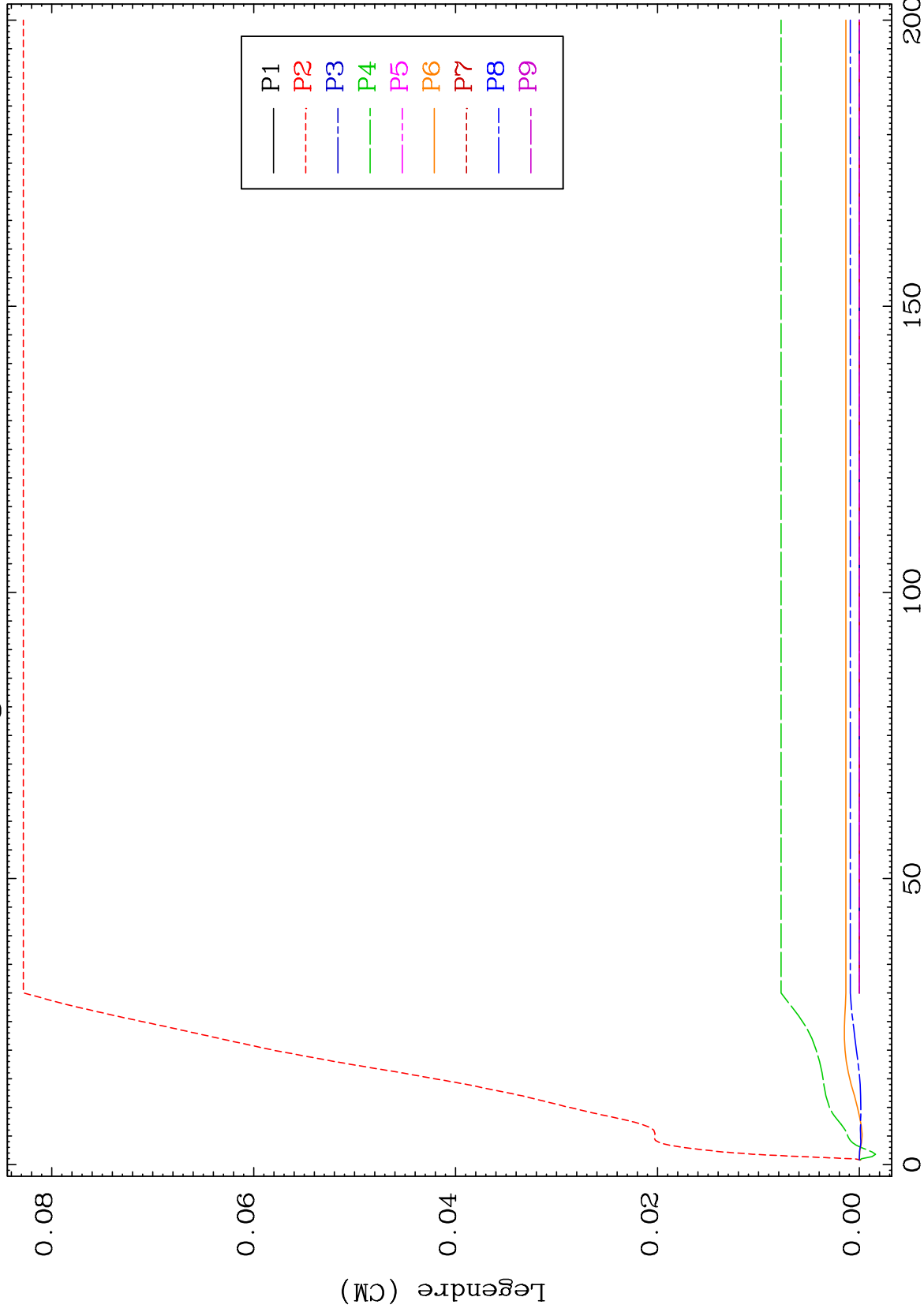
Incident Energy (MeV)

107

MAT 5731

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

57-La-140



57-La-140

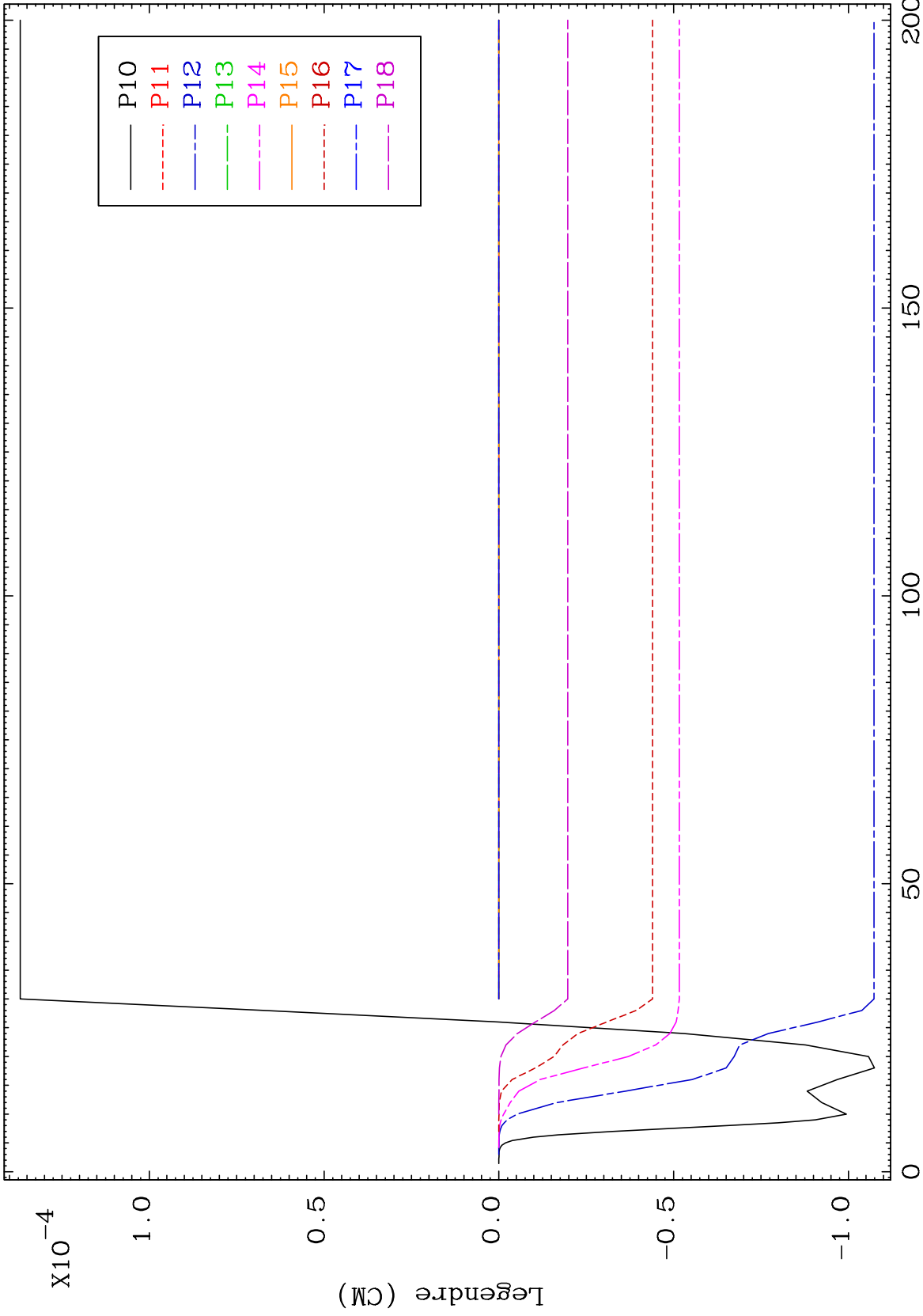
Incident Energy (MeV)

108

MAT 5731

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

57-La-140



109

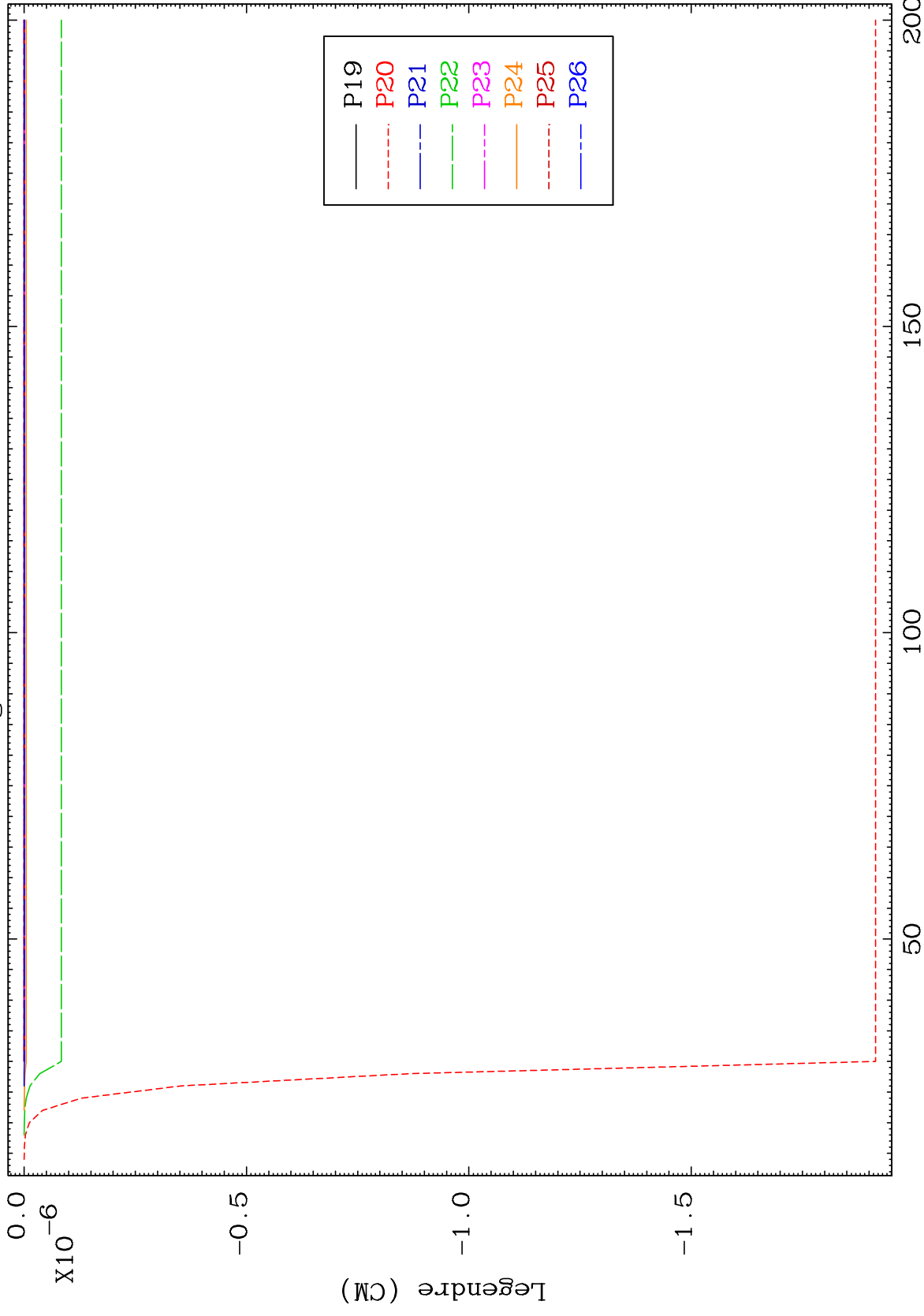
Incident Energy (MeV)

57-La-140

MAT 5731

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

57-La-140

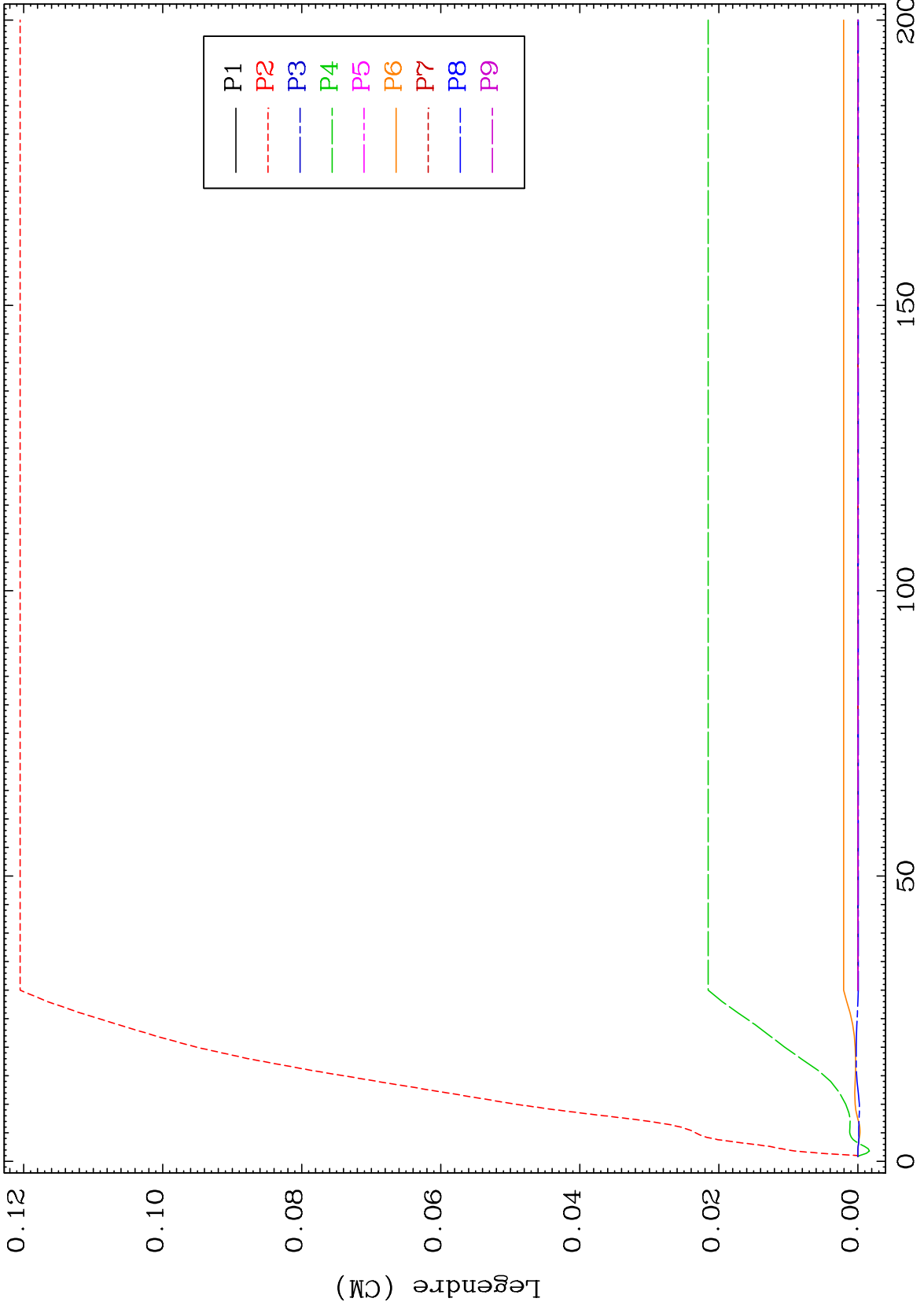


57-La-140

Incident Energy (MeV)

110

MAT 5731 MT= 78 (n,n') Level Legendre Coefficients 57-La-140

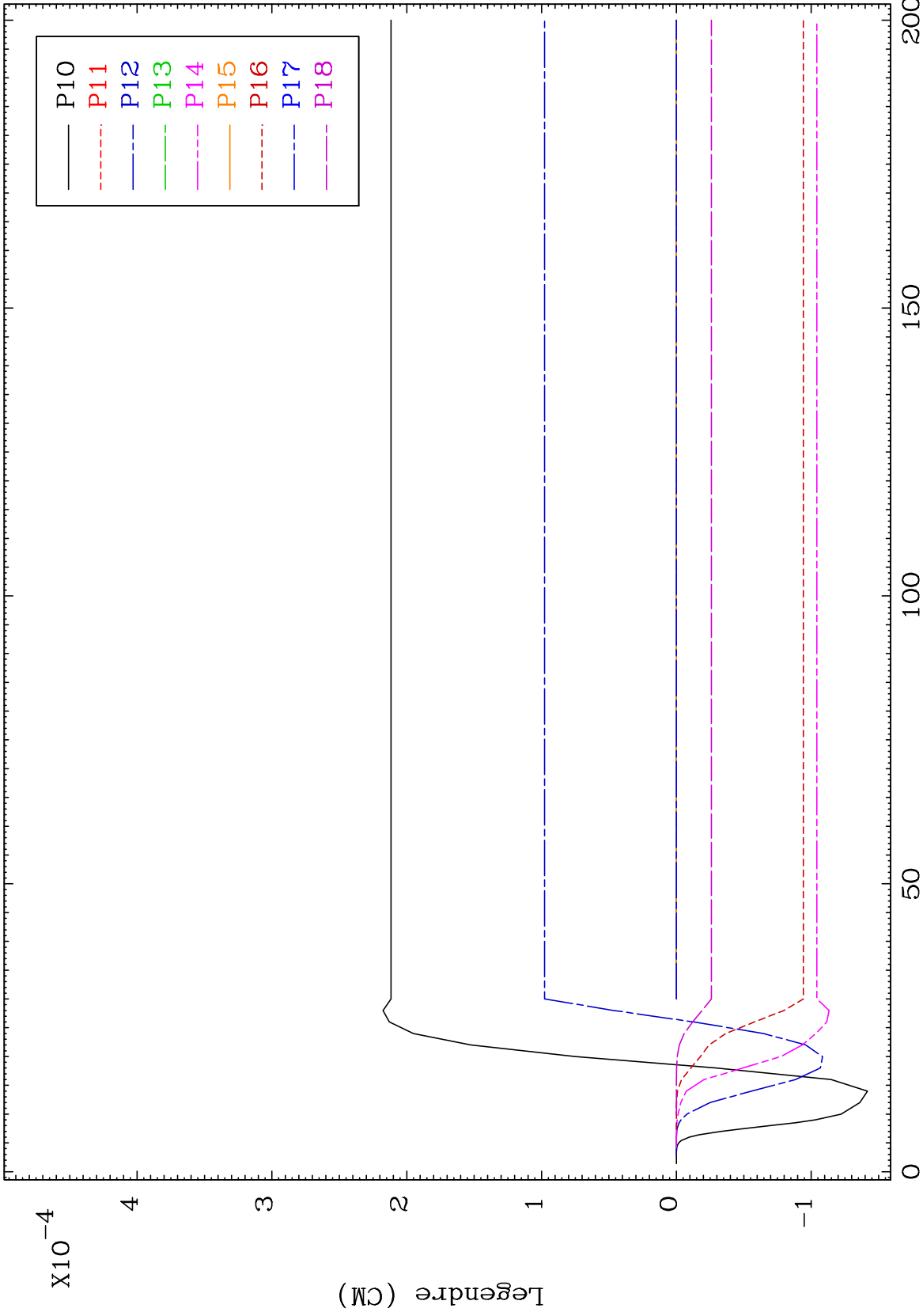


111 57-La-140

MAT 5731

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

57-La-140



112

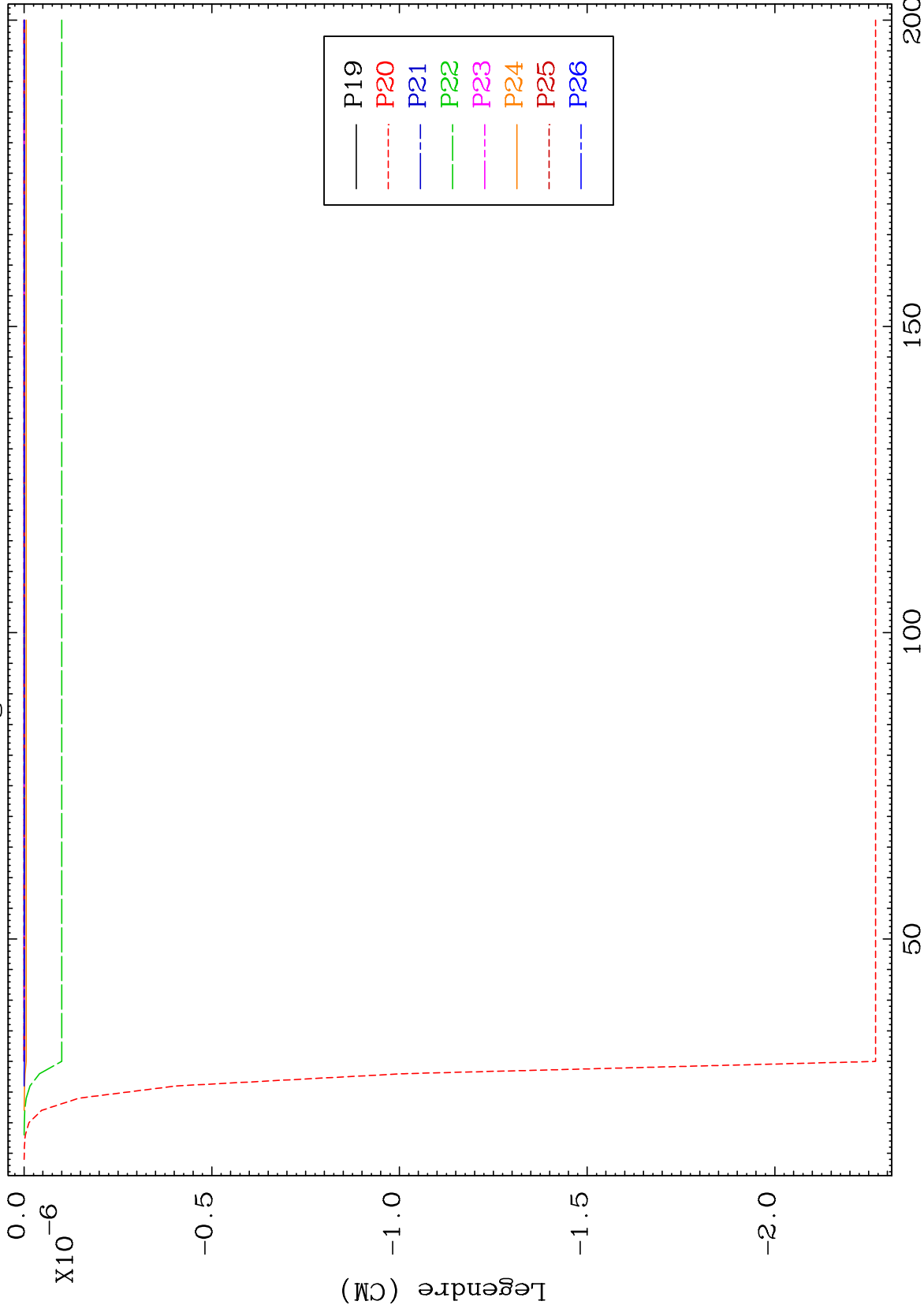
Incident Energy (MeV)

57-La-140

MAT 5731

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

57-La-140



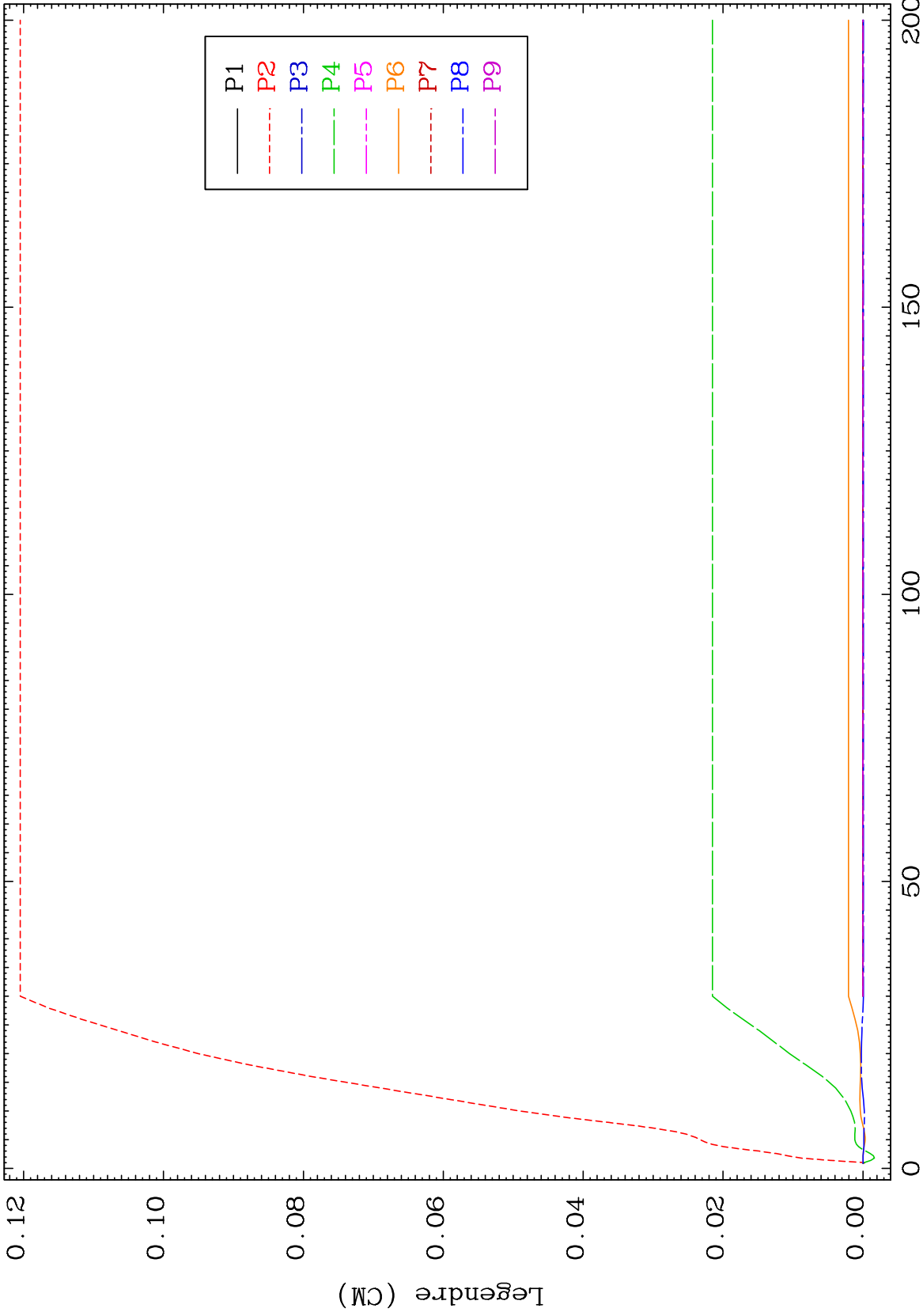
57-La-140

Incident Energy (MeV)

113

MAT 5731 MT= 79 (n,n') Level Legendre Coefficients

57-La-140



57-La-140

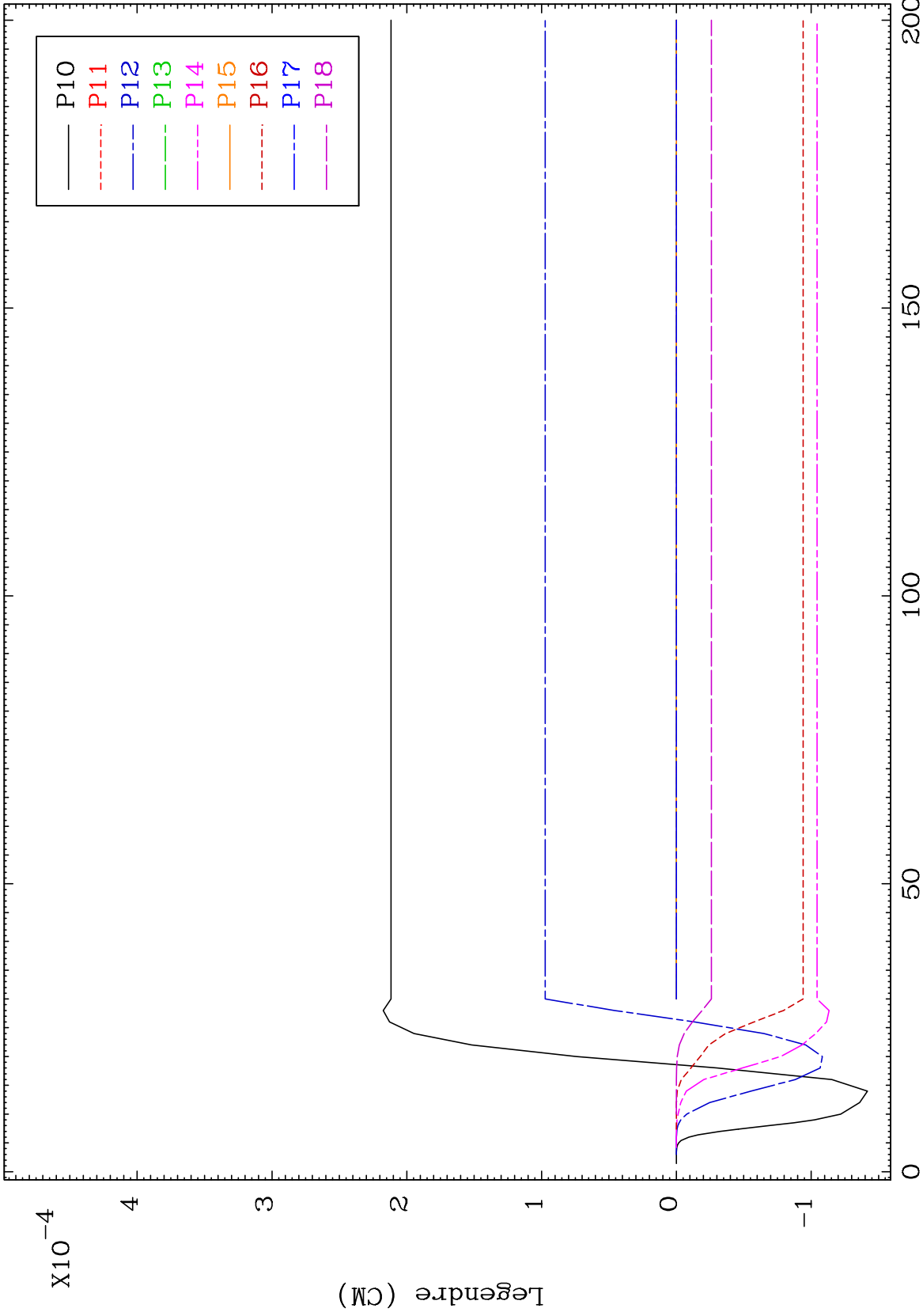
Incident Energy (MeV)

114

MAT 5731

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

57-La-140



57-La-140

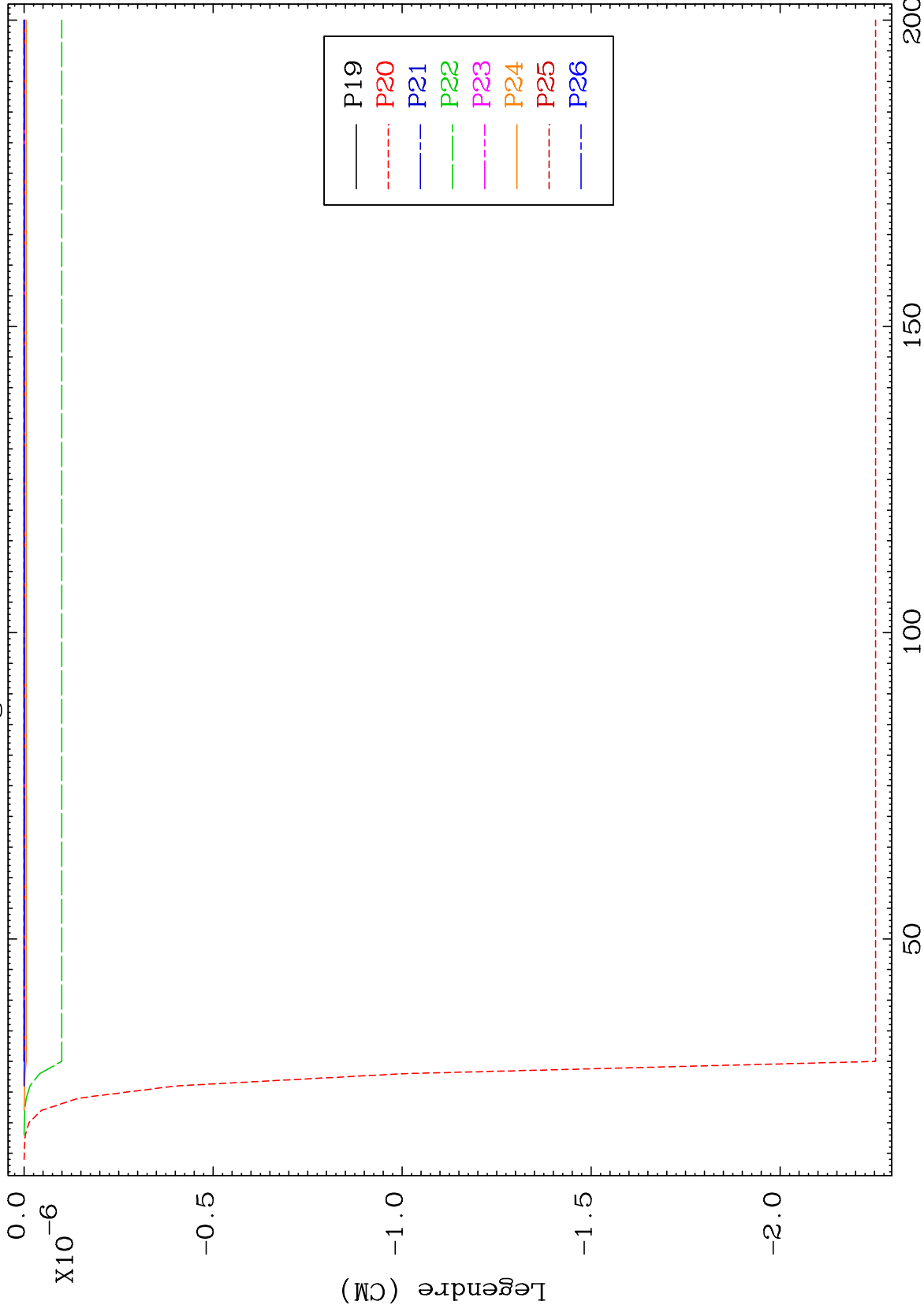
Incident Energy (MeV)

115

MAT 5731

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

57-La-140

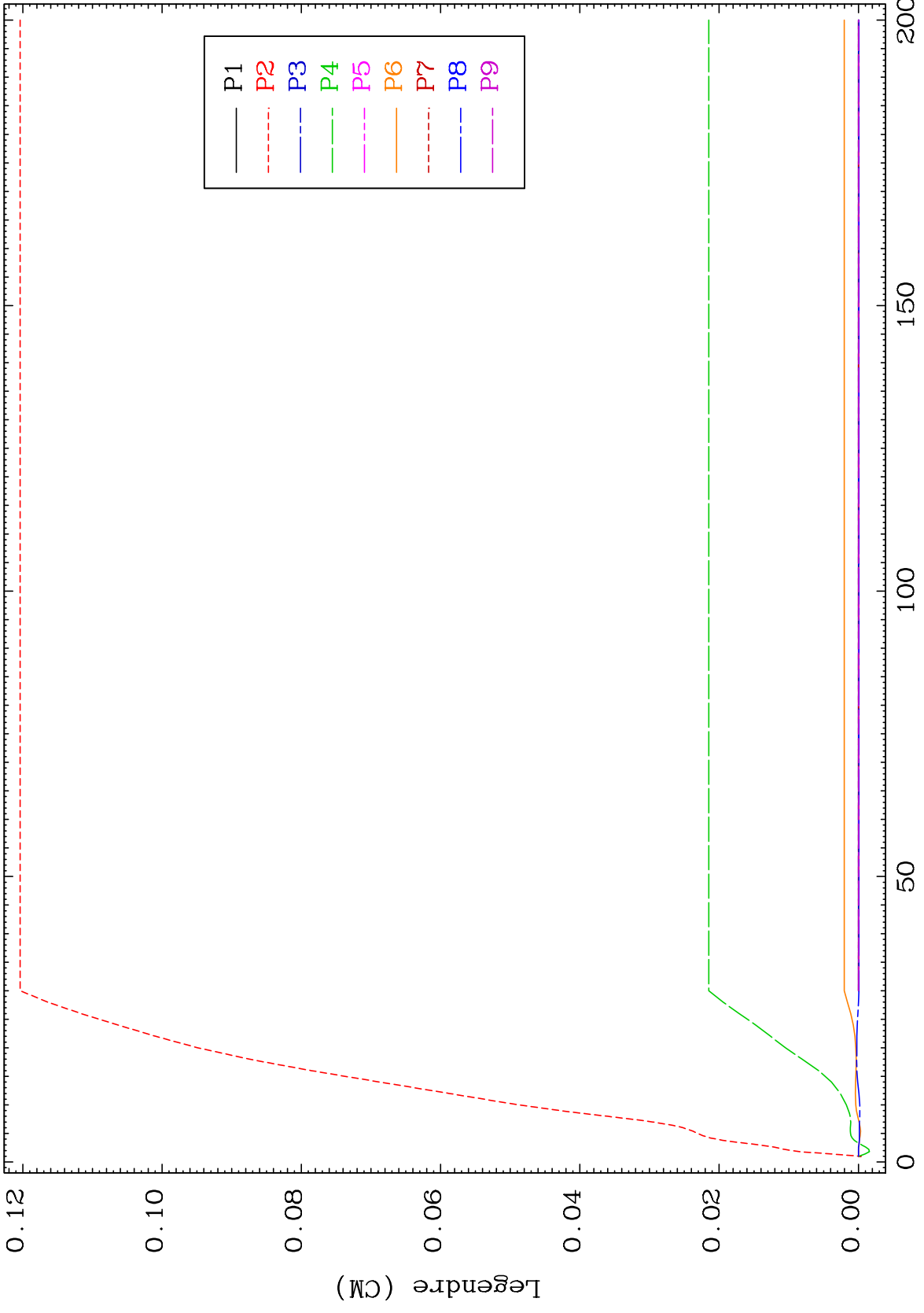


57-La-140

Incident Energy (MeV)

116

MAT 5731 MT= 80 (n,n') Level Legendre Coefficients 57-La-140

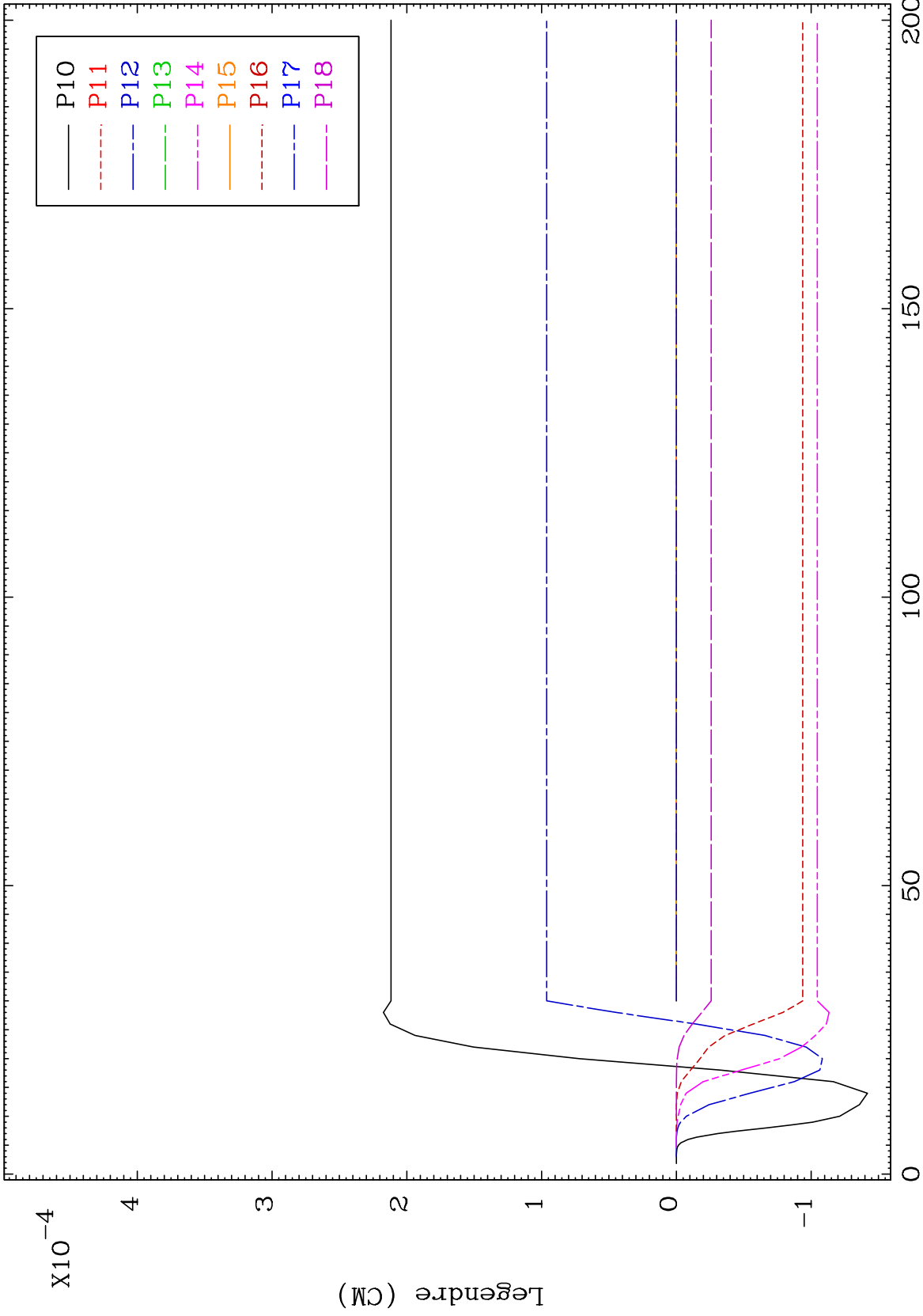


117 57-La-140

MAT 5731

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

57-La-140



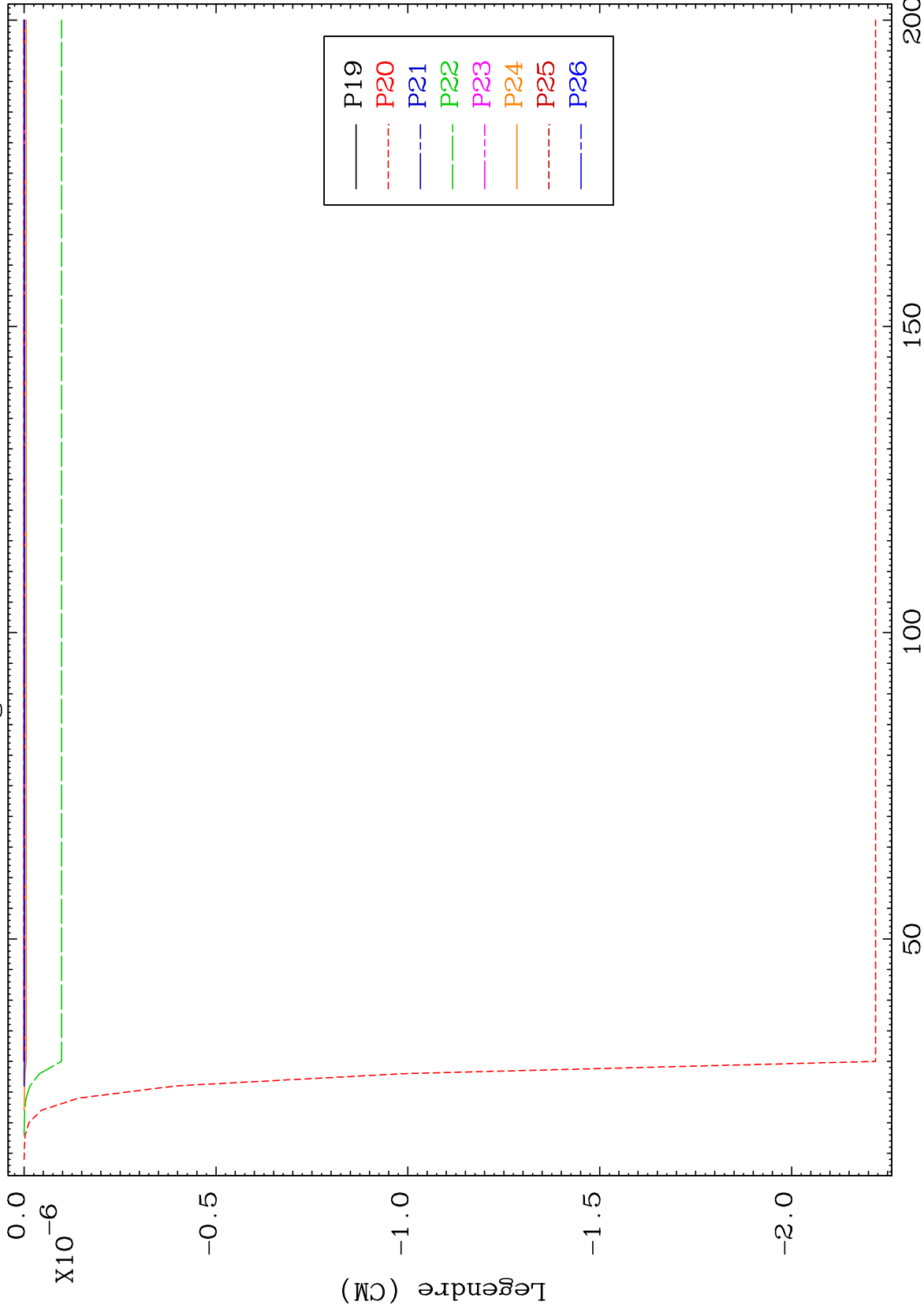
118

57-La-140

MAT 5731

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

57-La-140



57-La-140

Incident Energy (MeV)

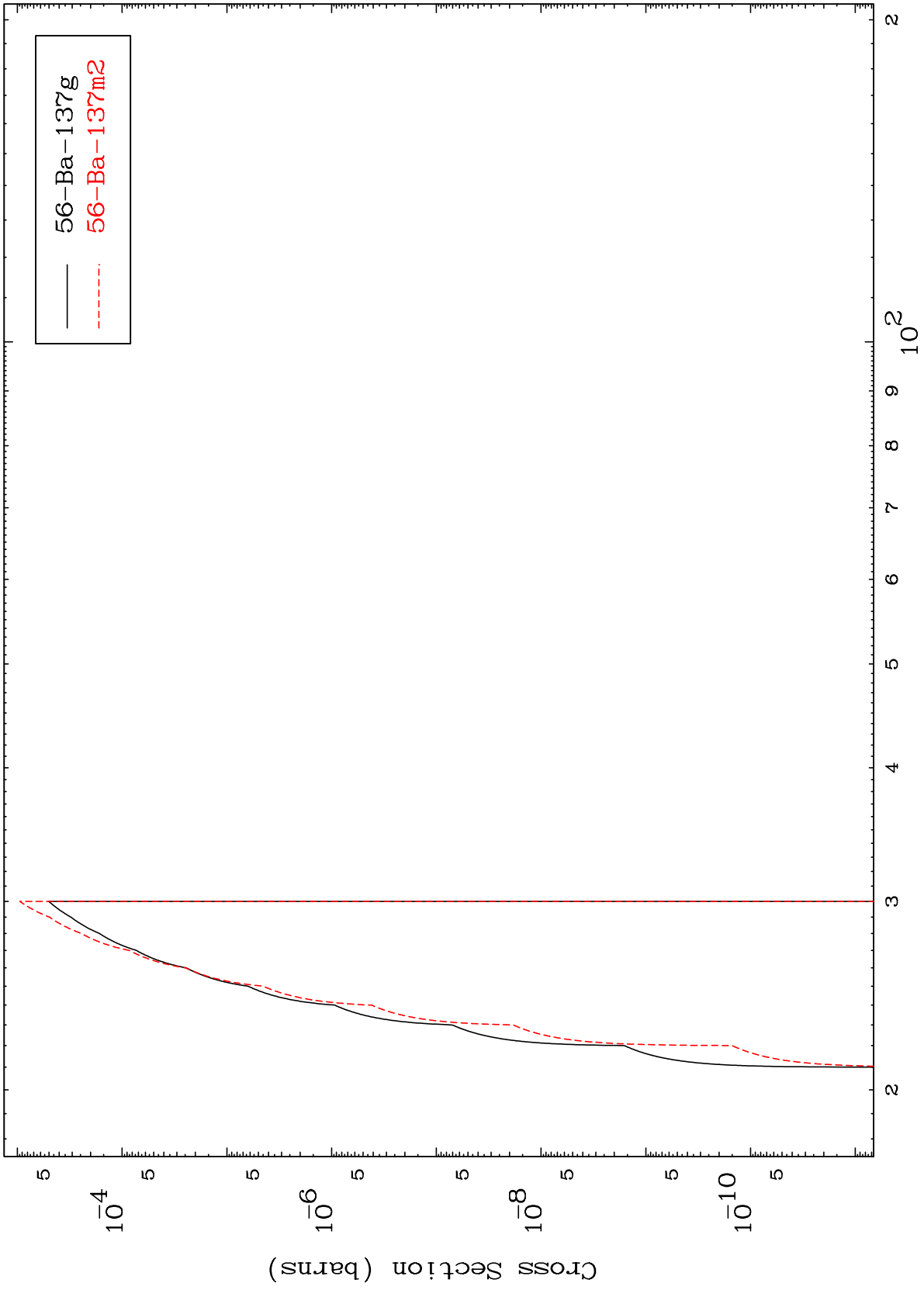
119

MAT 5731

(n,2n) d

57-La-140

Radionuclide Production Cross Section



120

Incident Energy (MeV)

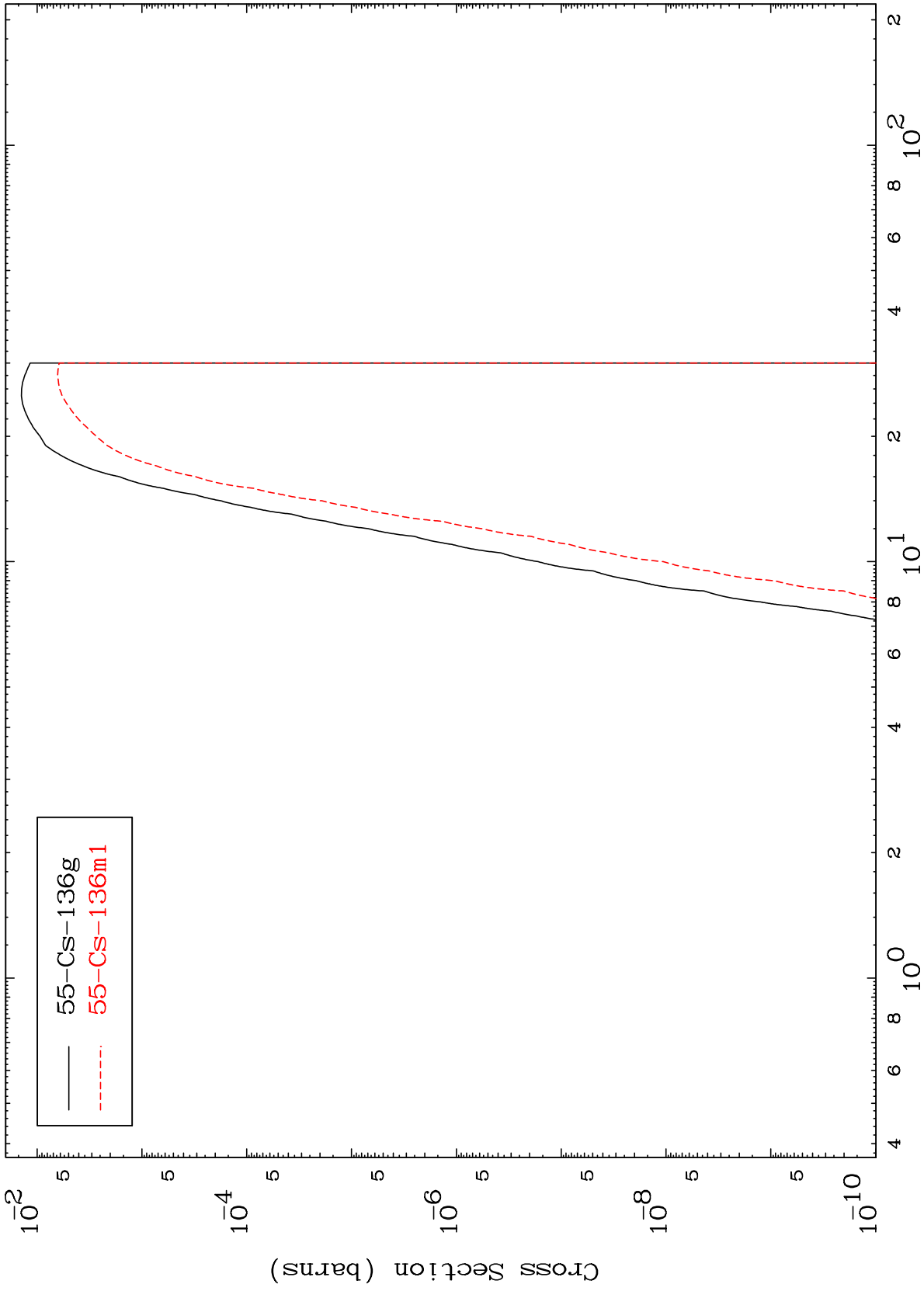
57-La-140

MAT 5731

(n,n')  $\alpha$

57-La-140

Radionuclide Production Cross Section



121

Incident Energy (MeV)

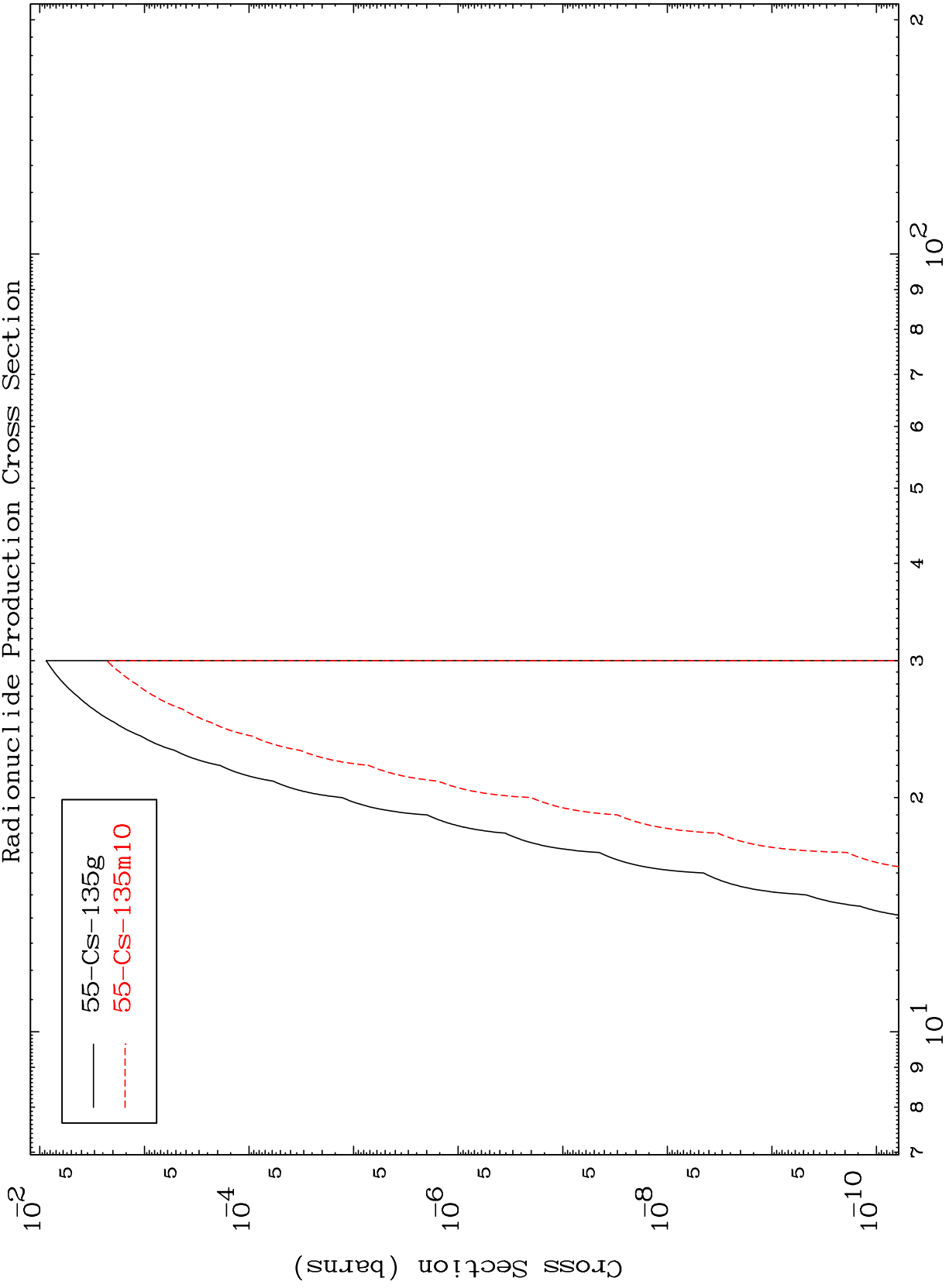
57-La-140

MAT 5731

(n,2n)  $\alpha$

57-La-140

Radionuclide Production Cross Section



122

Incident Energy (MeV)

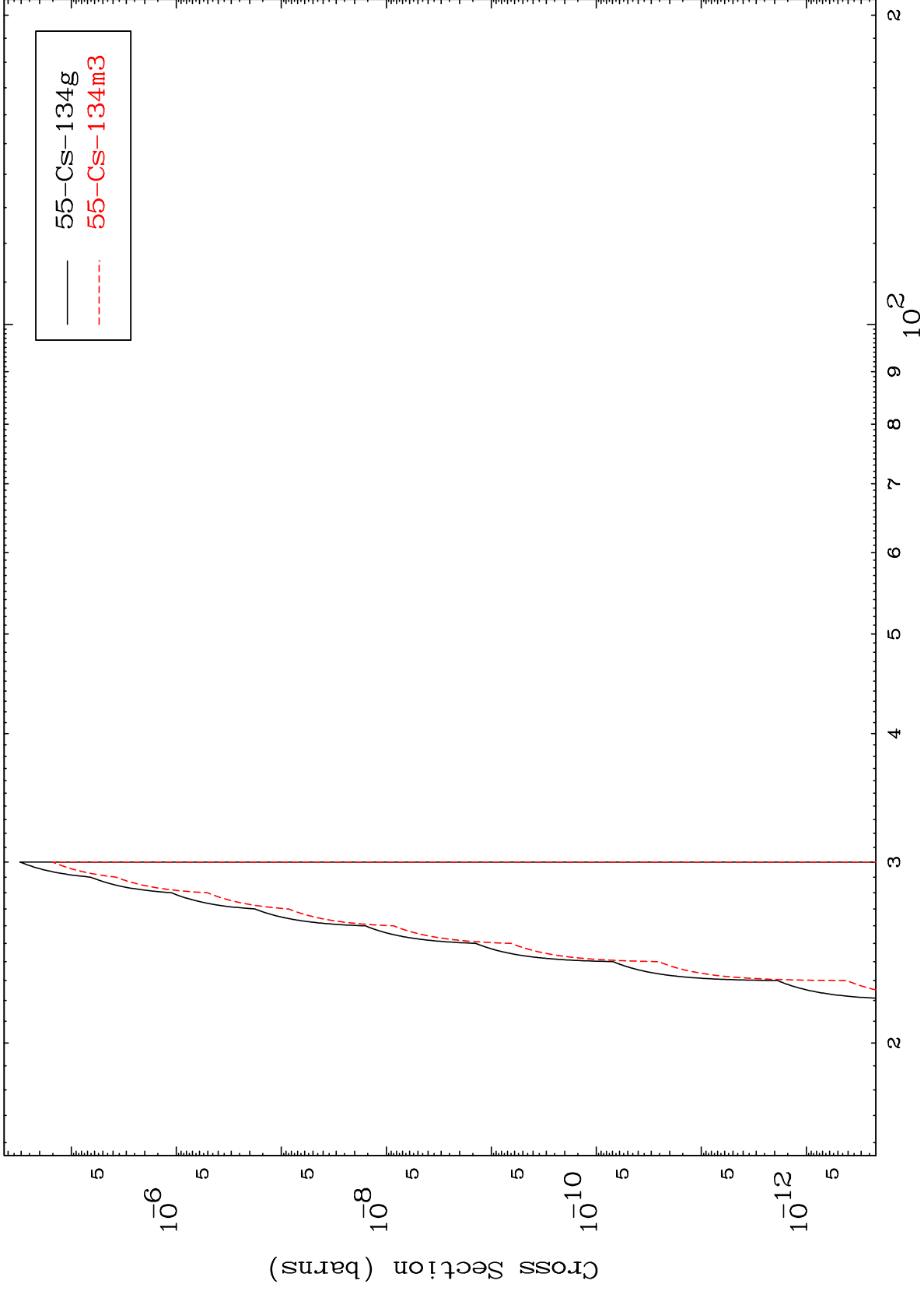
57-La-140

MAT 5731

(n,3n)  $\alpha$

57-La-140

Radionuclide Production Cross Section



123

Incident Energy (MeV)

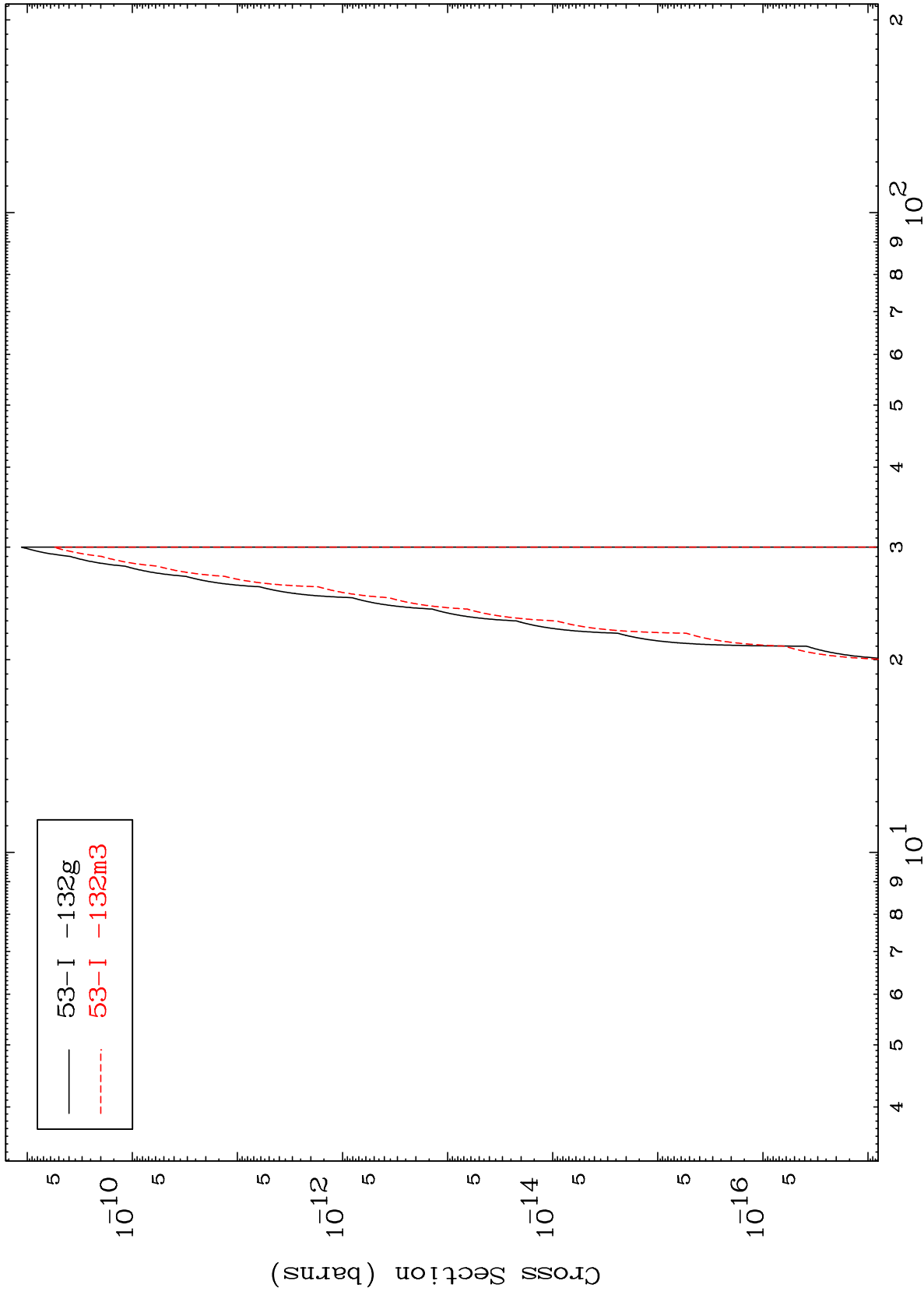
57-La-140

MAT 5731

(n,n') 2α

57-La-140

Radionuclide Production Cross Section



124

Incident Energy (MeV)

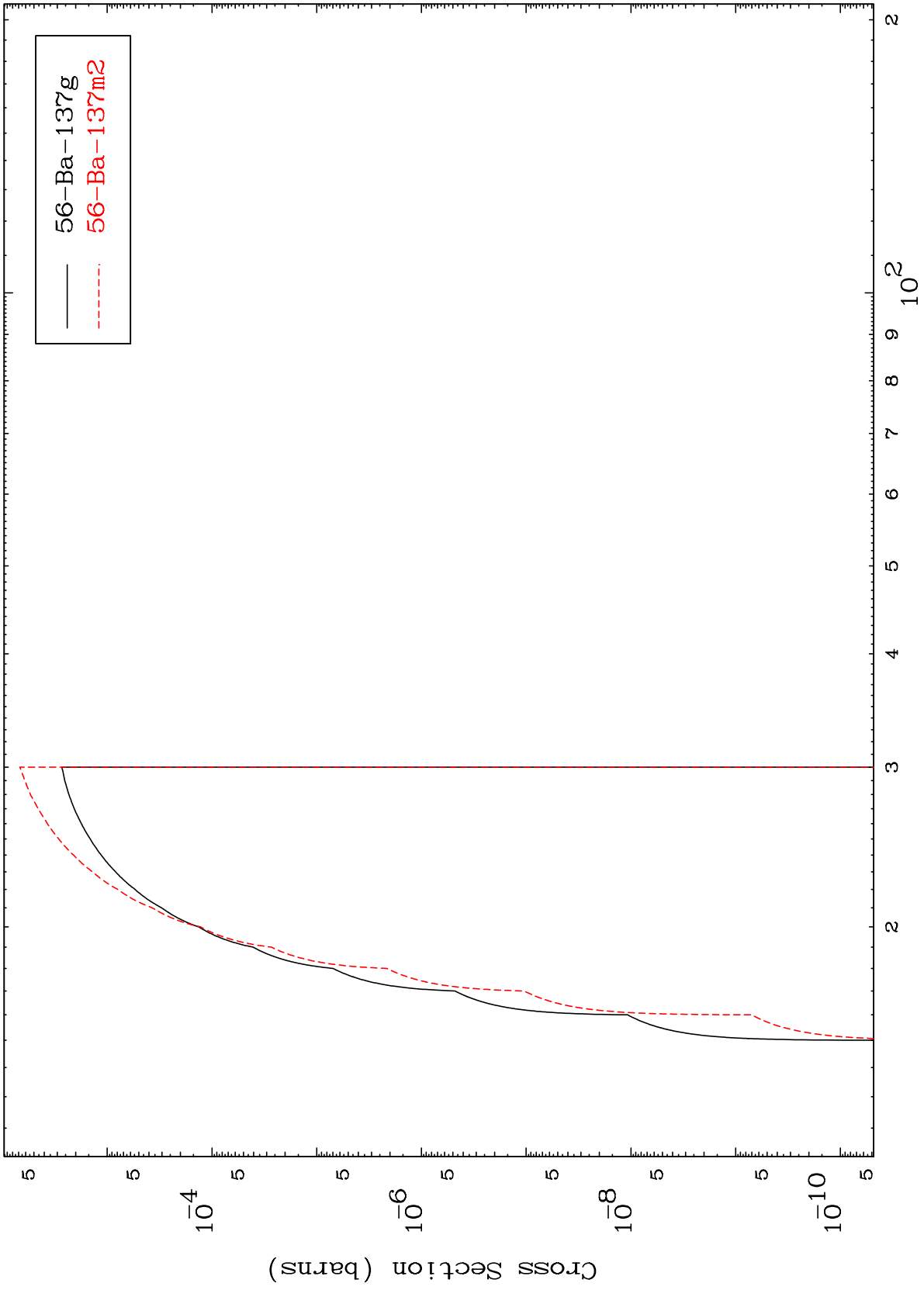
57-La-140

MAT 5731

(n,n') t

57-La-140

Radionuclide Production Cross Section



125

Incident Energy (MeV)

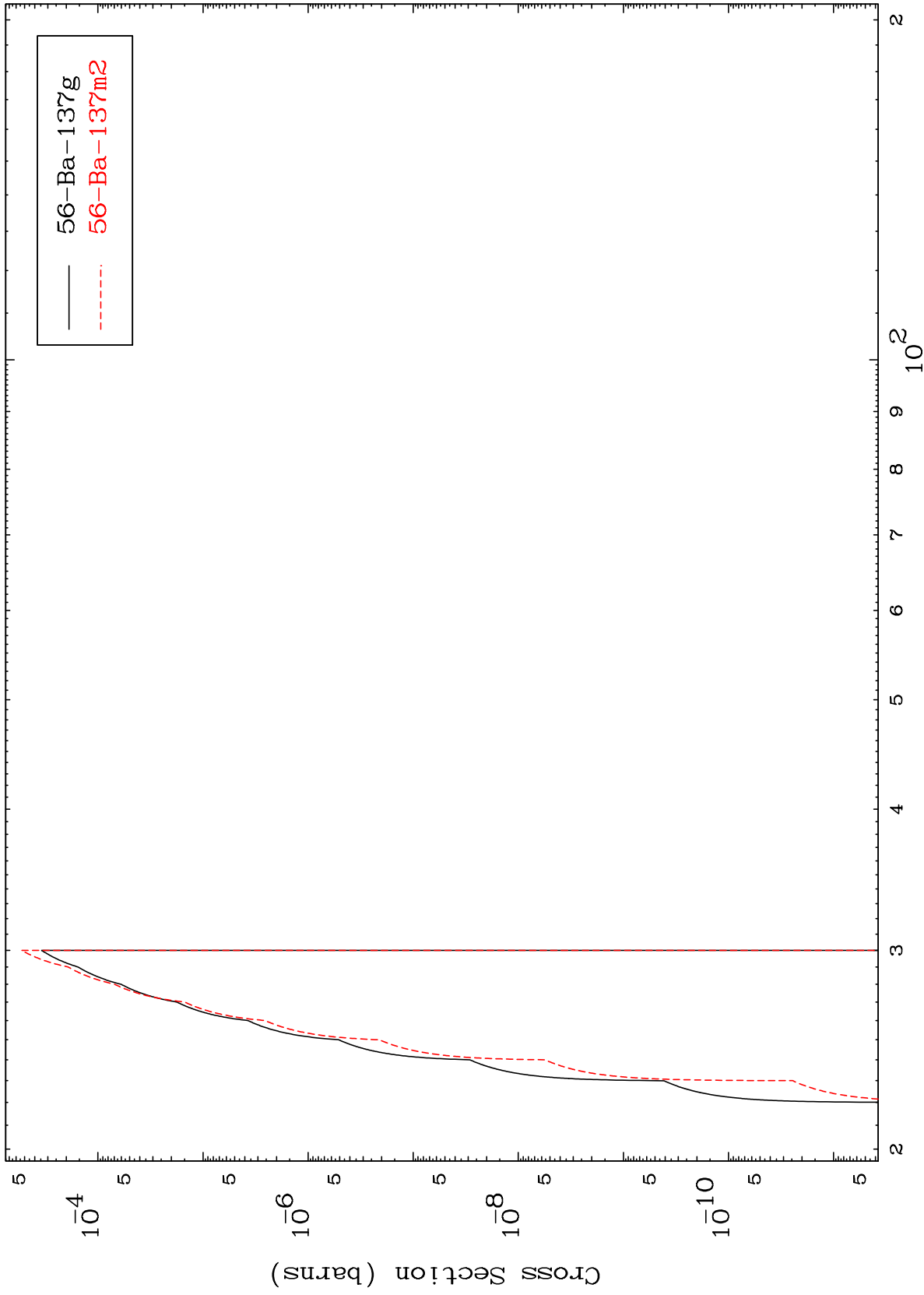
57-La-140

MAT 5731

(n,3n) p

57-La-140

Radionuclide Production Cross Section



126

Incident Energy (MeV)

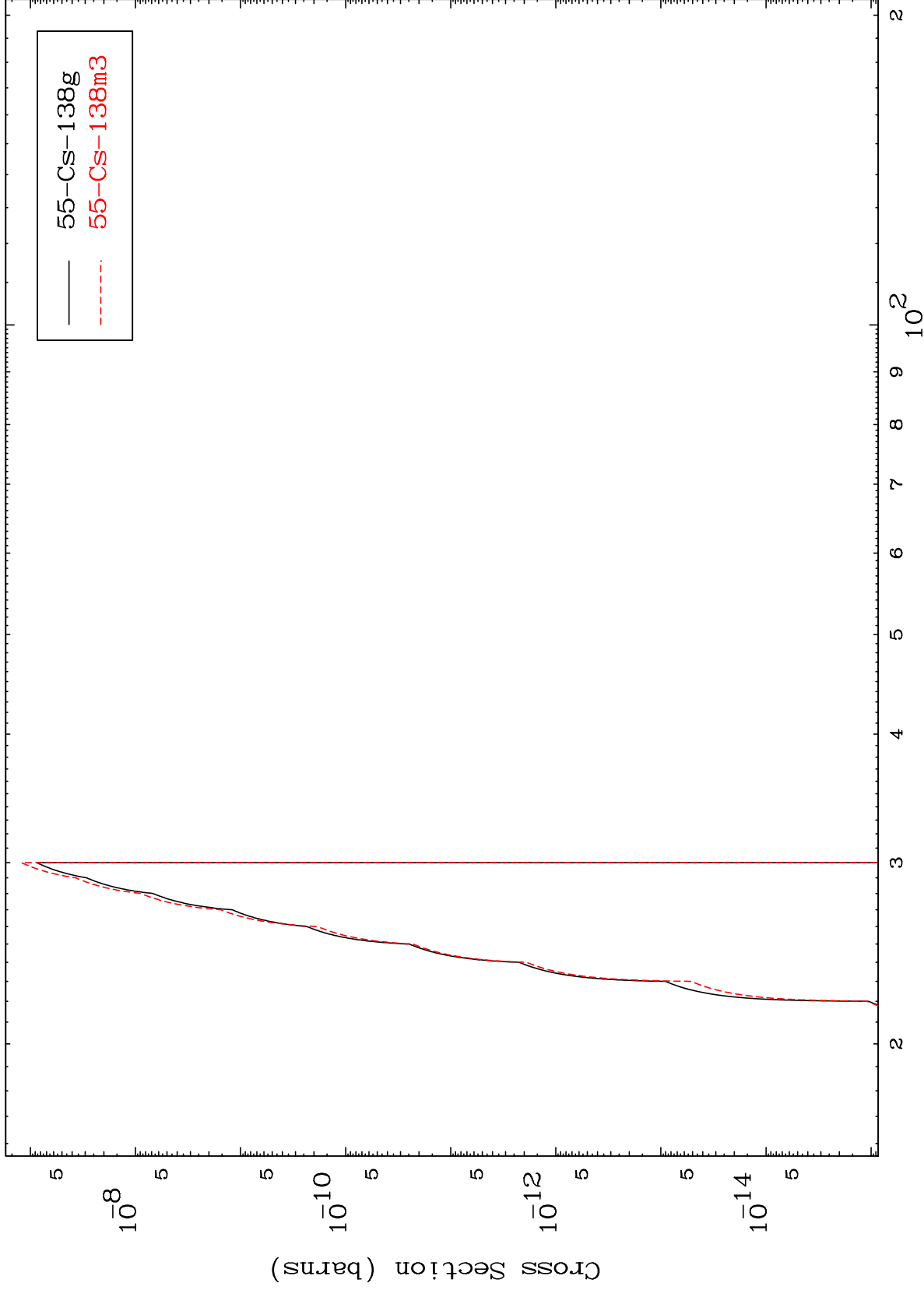
57-La-140

MAT 5731

(n,2n) p

57-La-140

Radionuclide Production Cross Section



127

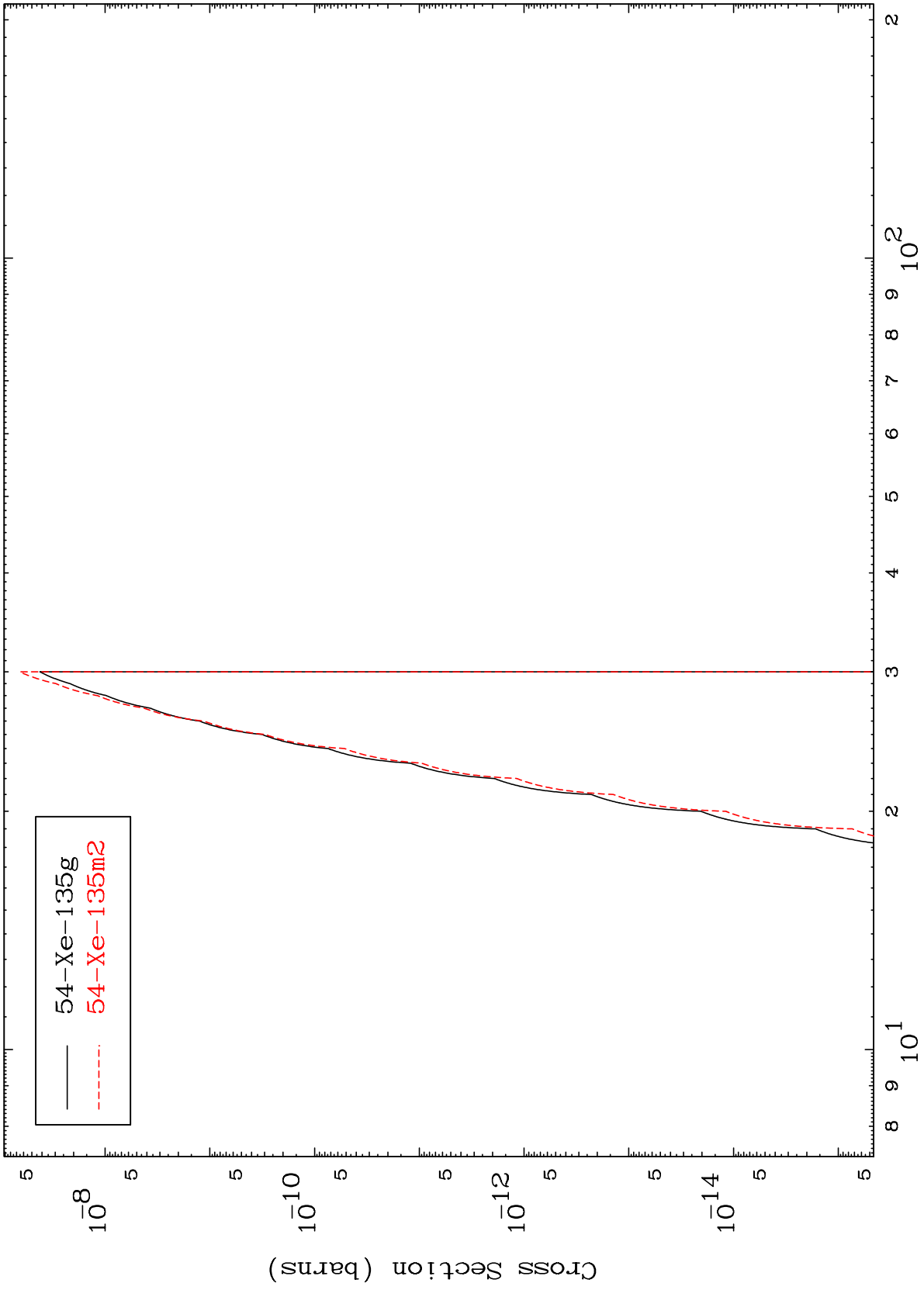
Incident Energy (MeV)

57-La-140

MAT 5731

57-La-140

(n,n') p  $\alpha$   
Radionuclide Production Cross Section



128

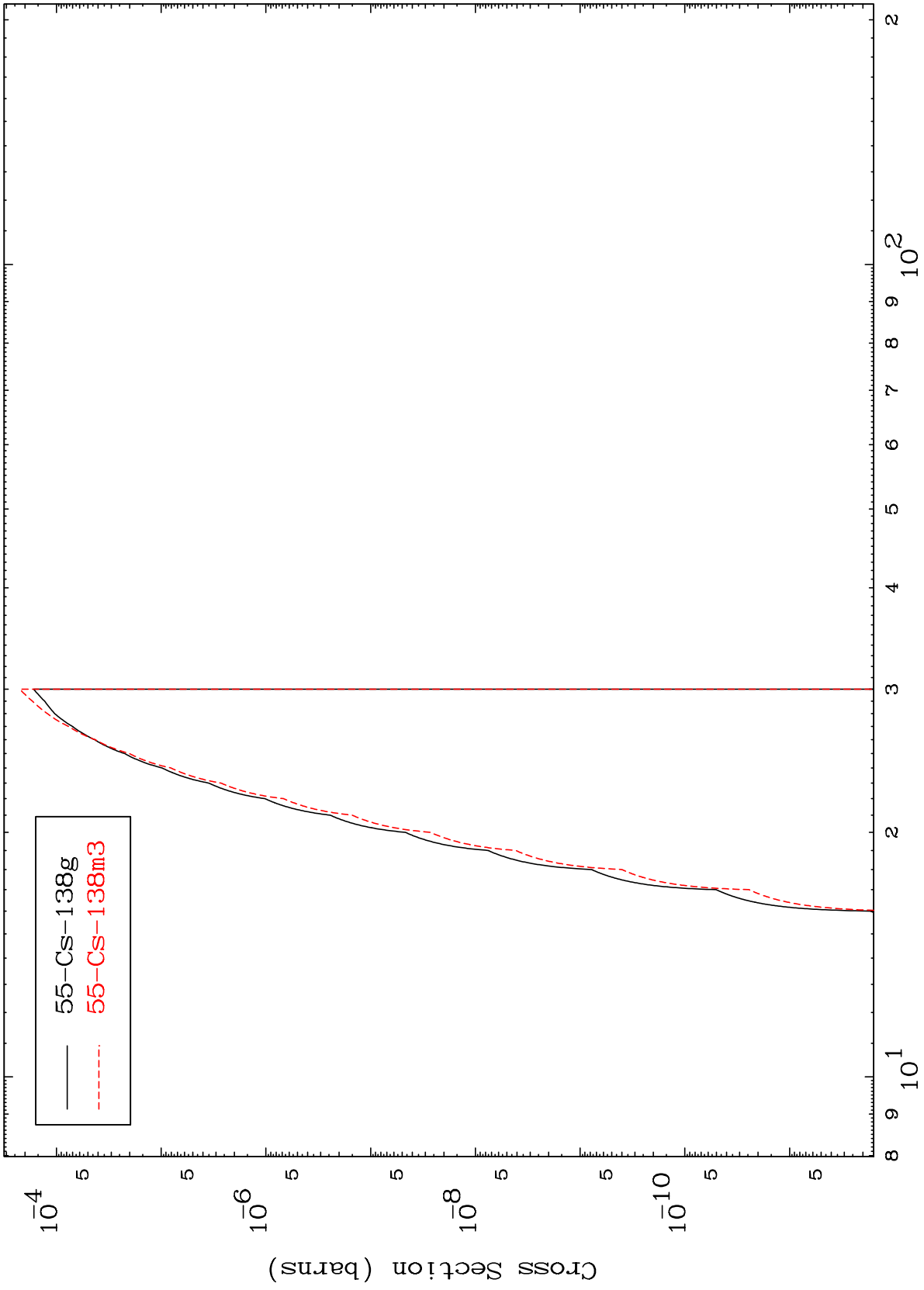
57-La-140

MAT 5731

(n,He-3)

57-La-140

Radionuclide Production Cross Section



129

Incident Energy (MeV)

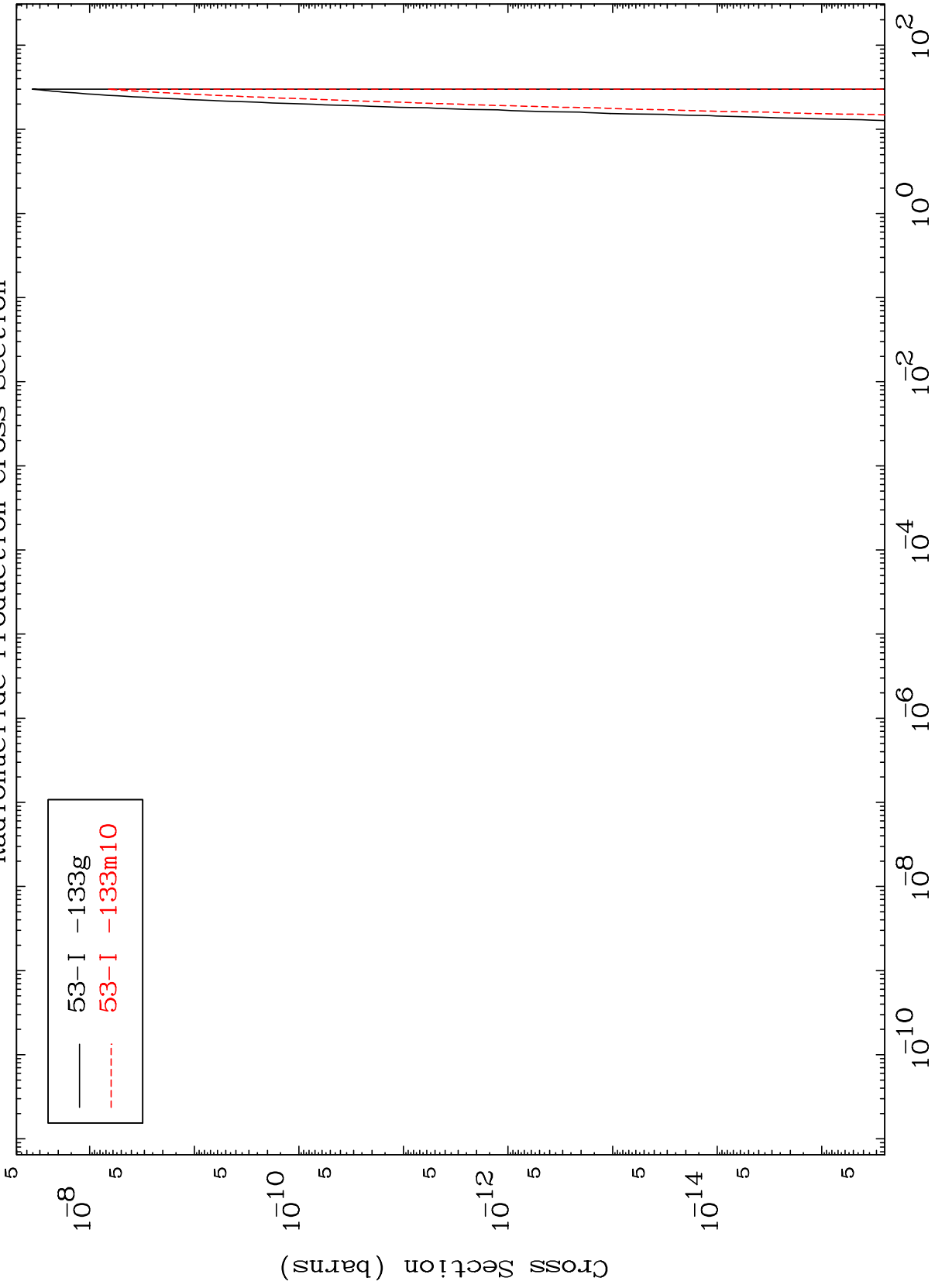
57-La-140

MAT 5731

(n,2α)

57-La-140

Radionuclide Production Cross Section



130

Incident Energy (MeV)

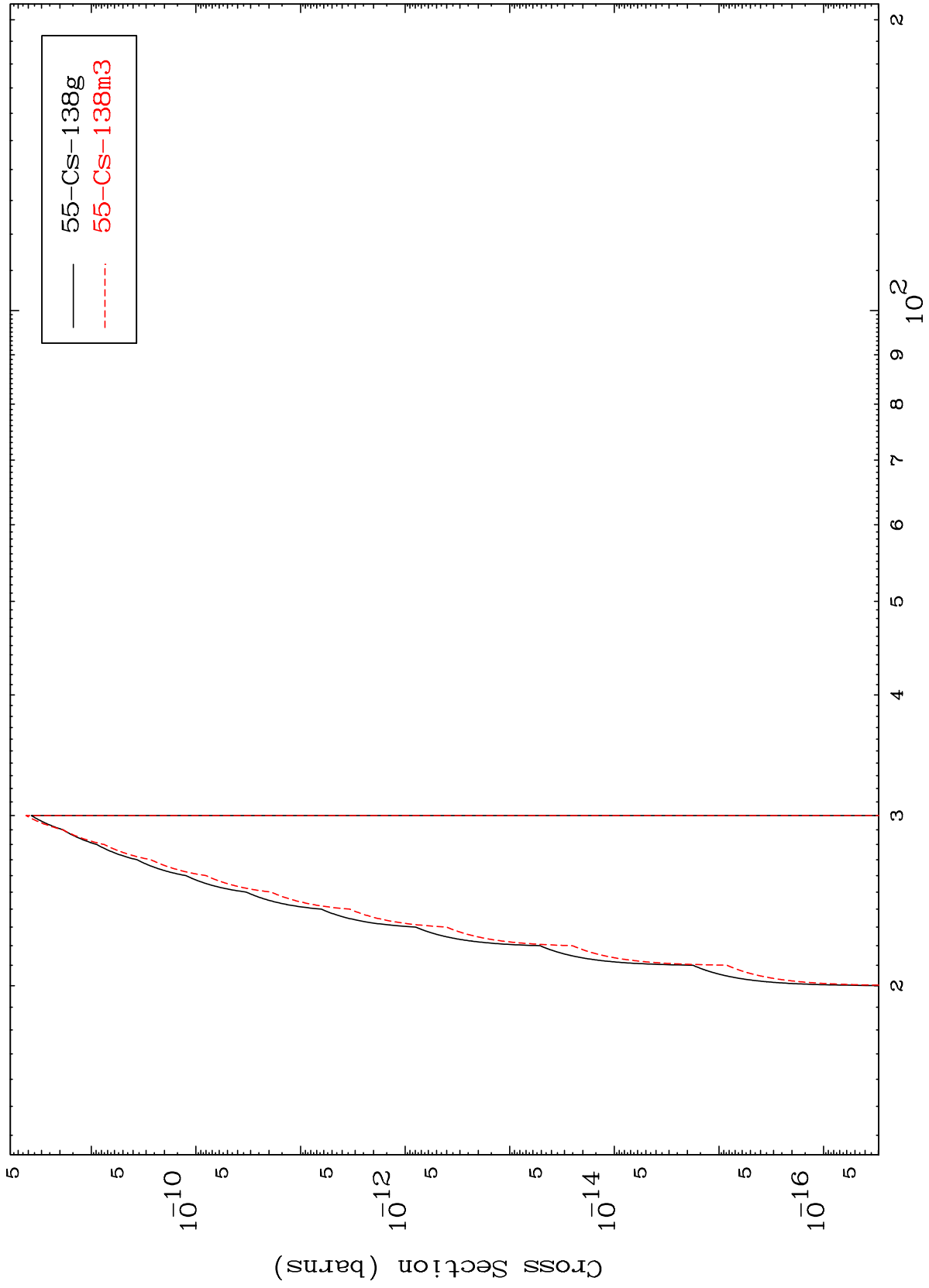
57-La-140

MAT 5731

(n,p) d

57-La-140

Radionuclide Production Cross Section



131

Incident Energy (MeV)

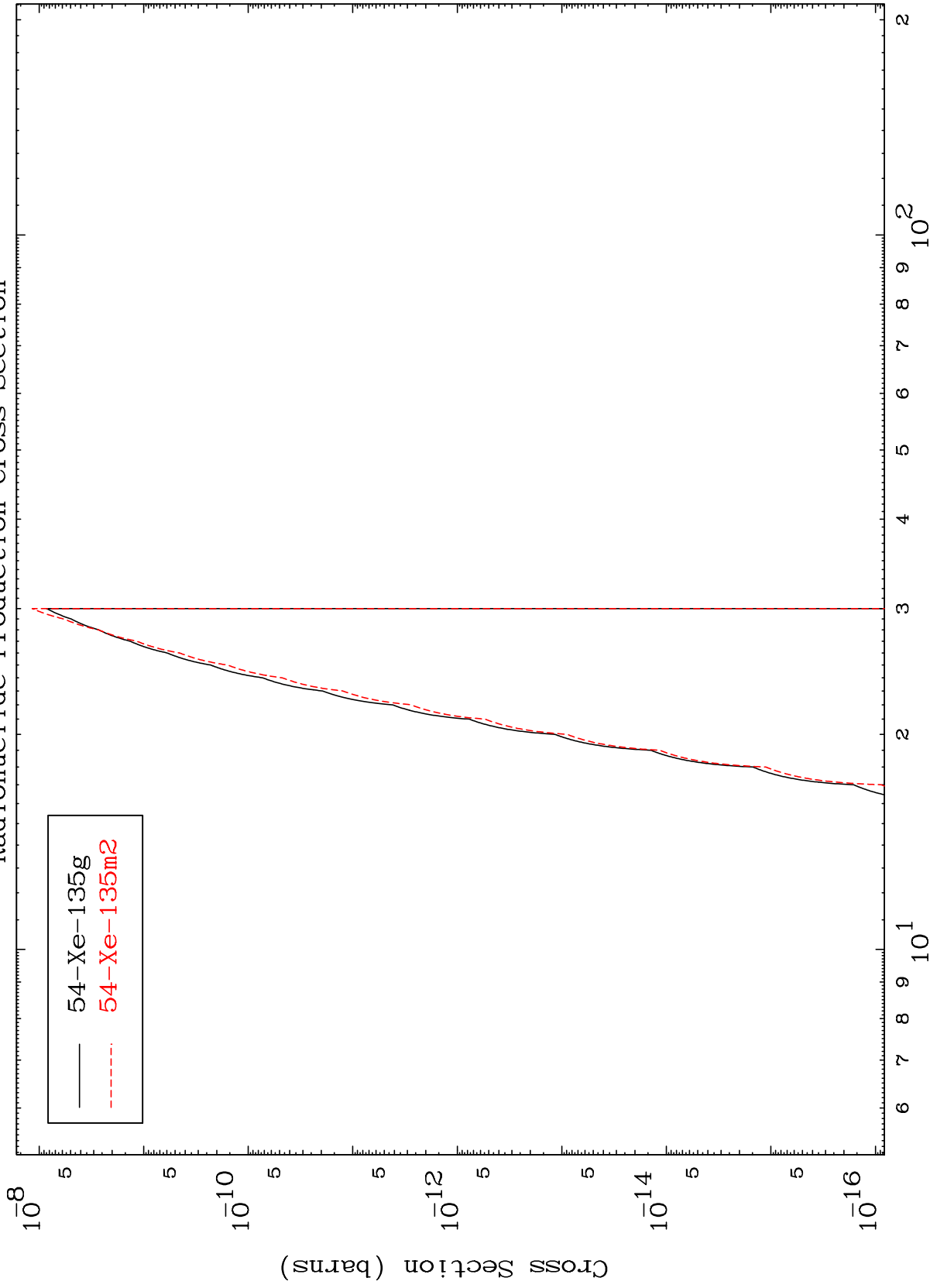
57-La-140

MAT 5731

(n,d)  $\alpha$

57-La-140

Radionuclide Production Cross Section



132

Incident Energy (MeV)

57-La-140