

Program EVALPLOT
(Version 2018-1)

by

Dermott E. Cullen
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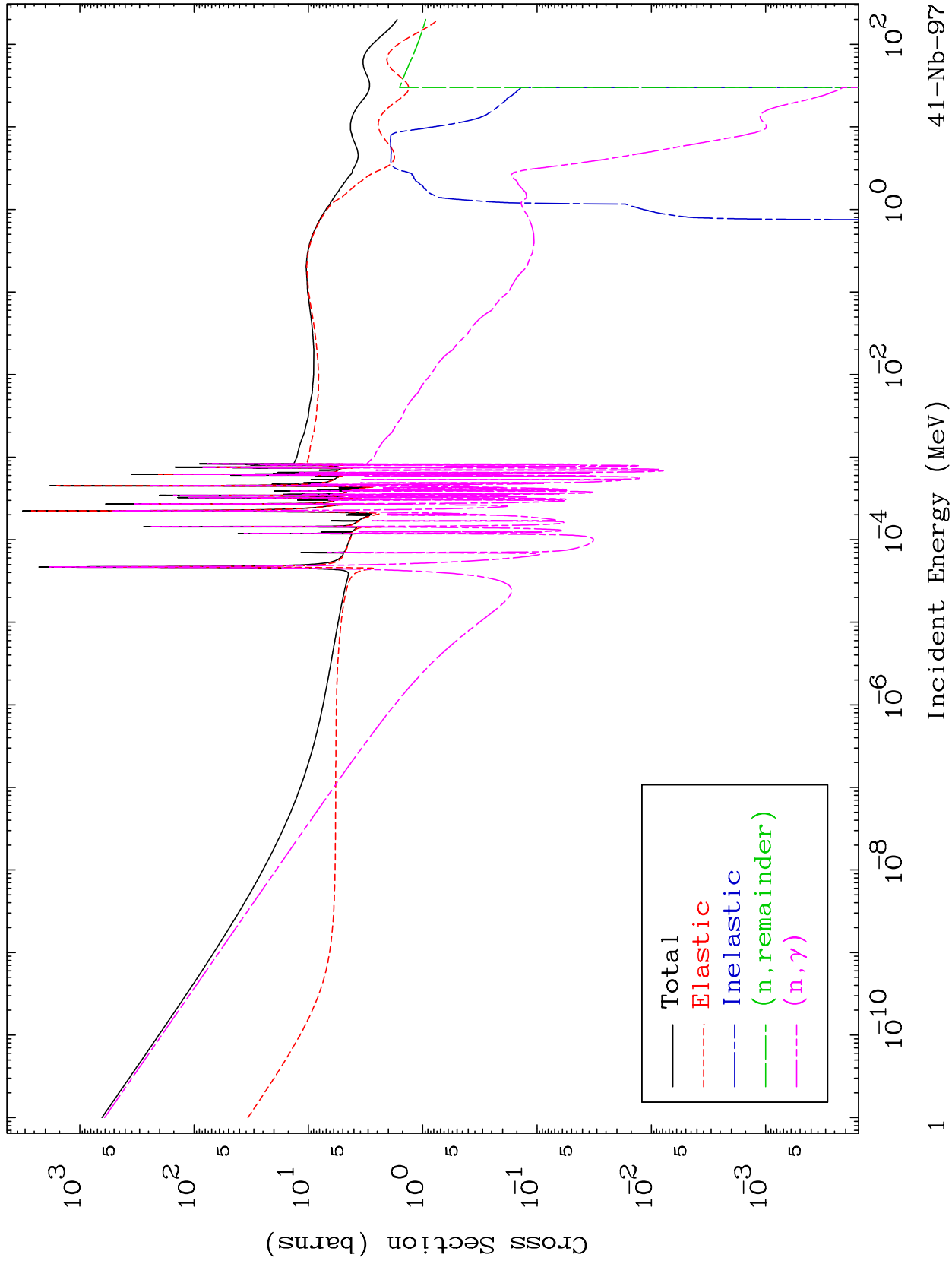
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Web:redcullen1.net/HOMEPAGE.NEW

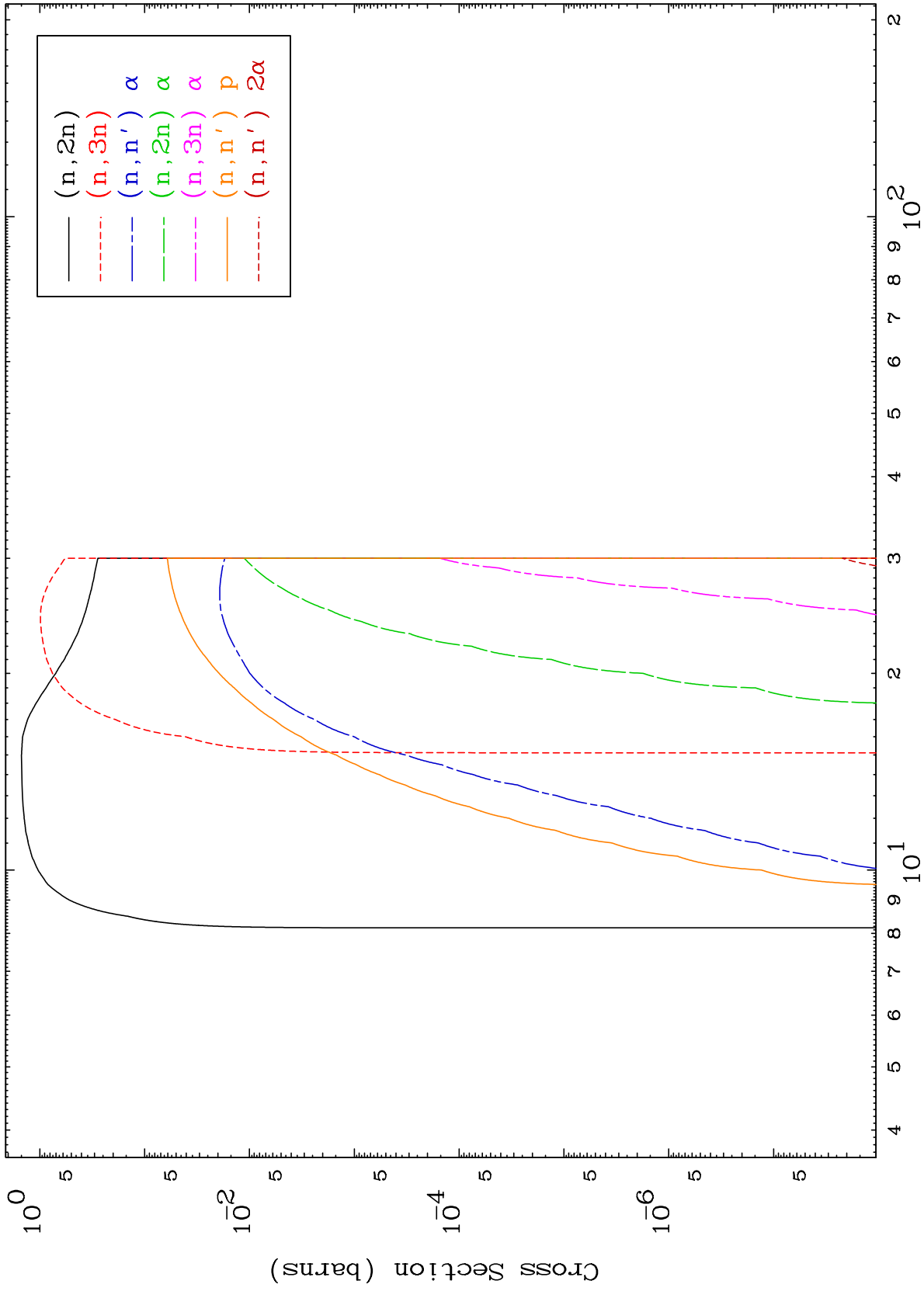
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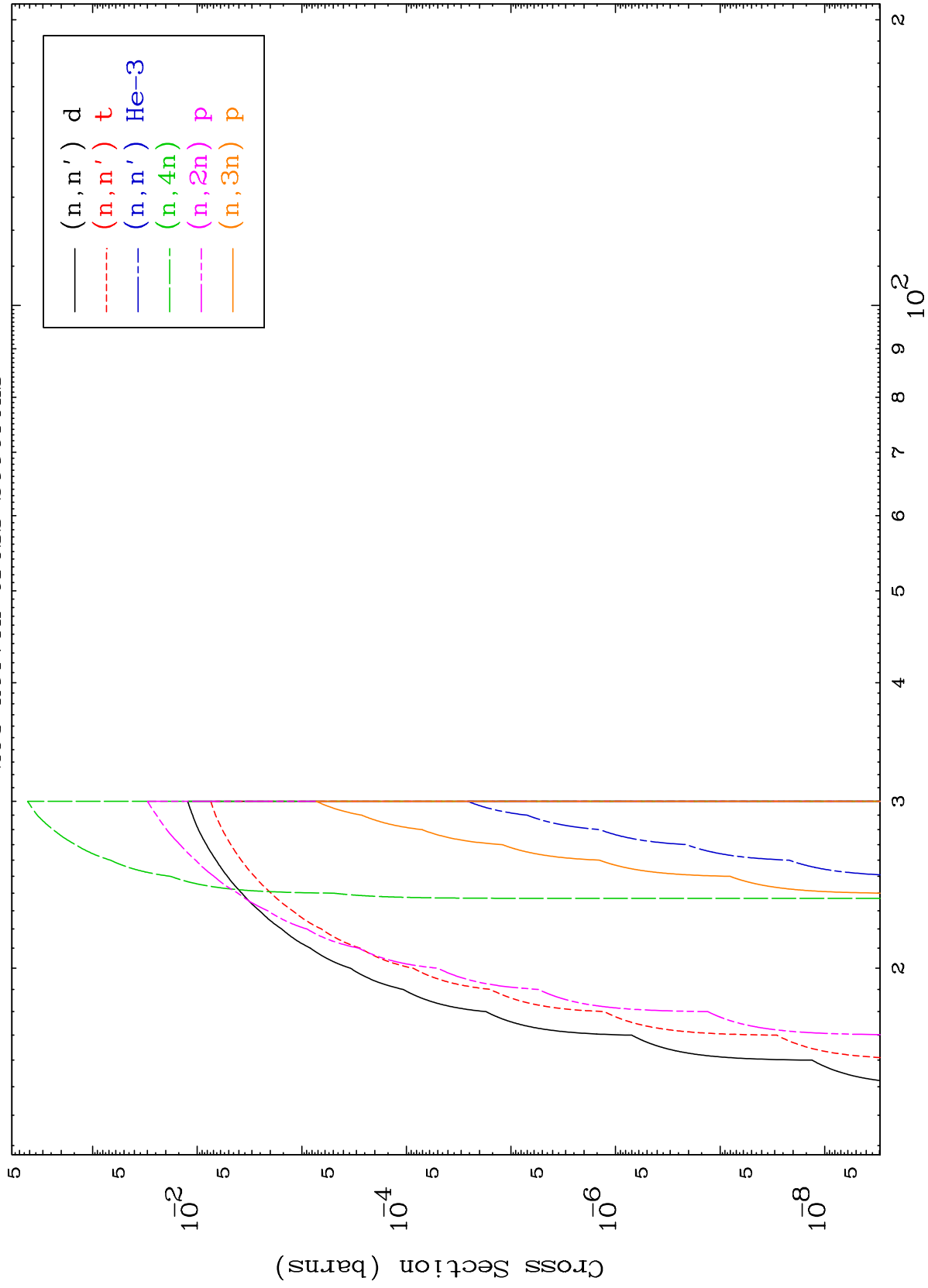
MAT 4137

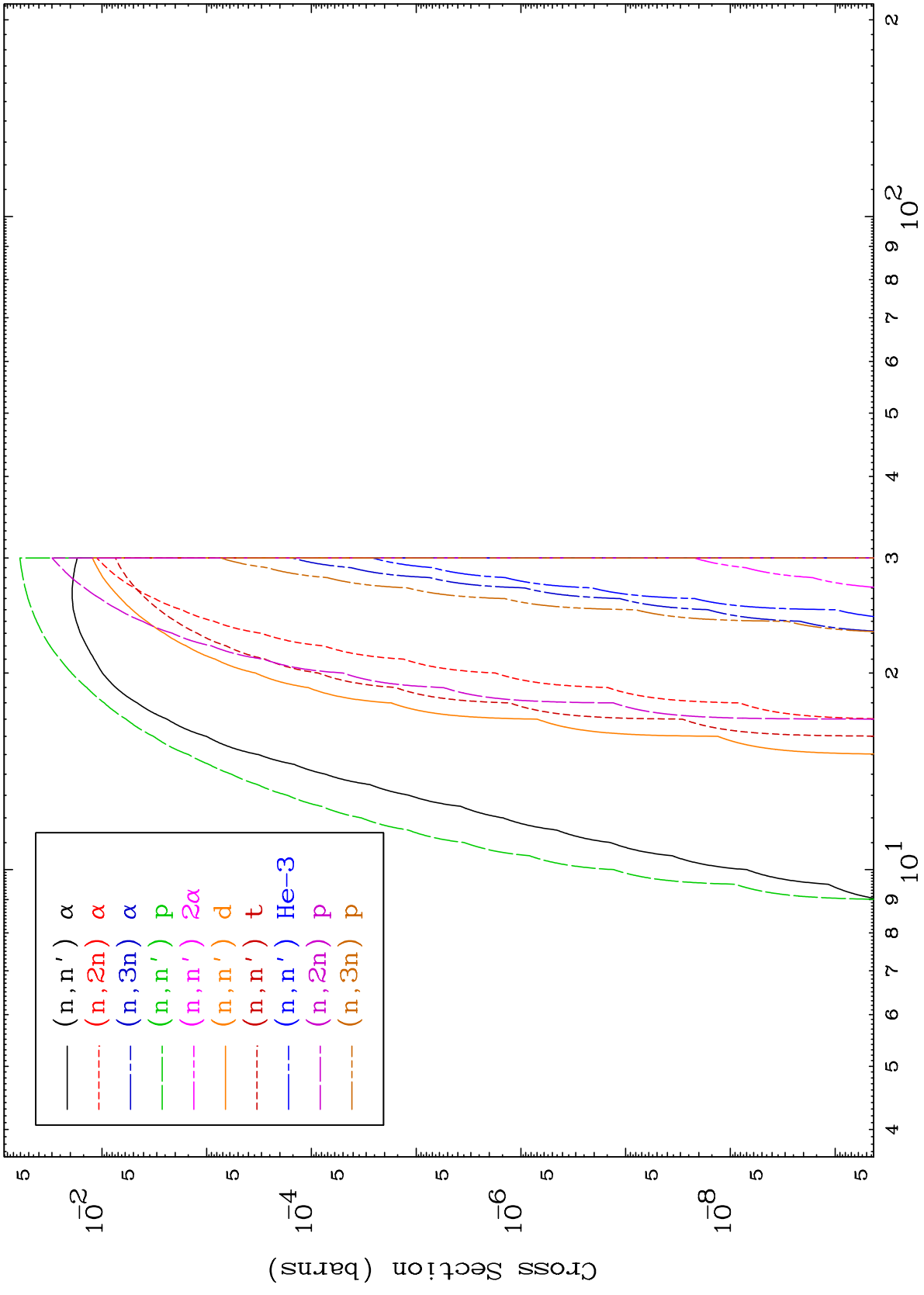
Major
293 Kelvin Cross Sections

41-Nb-97





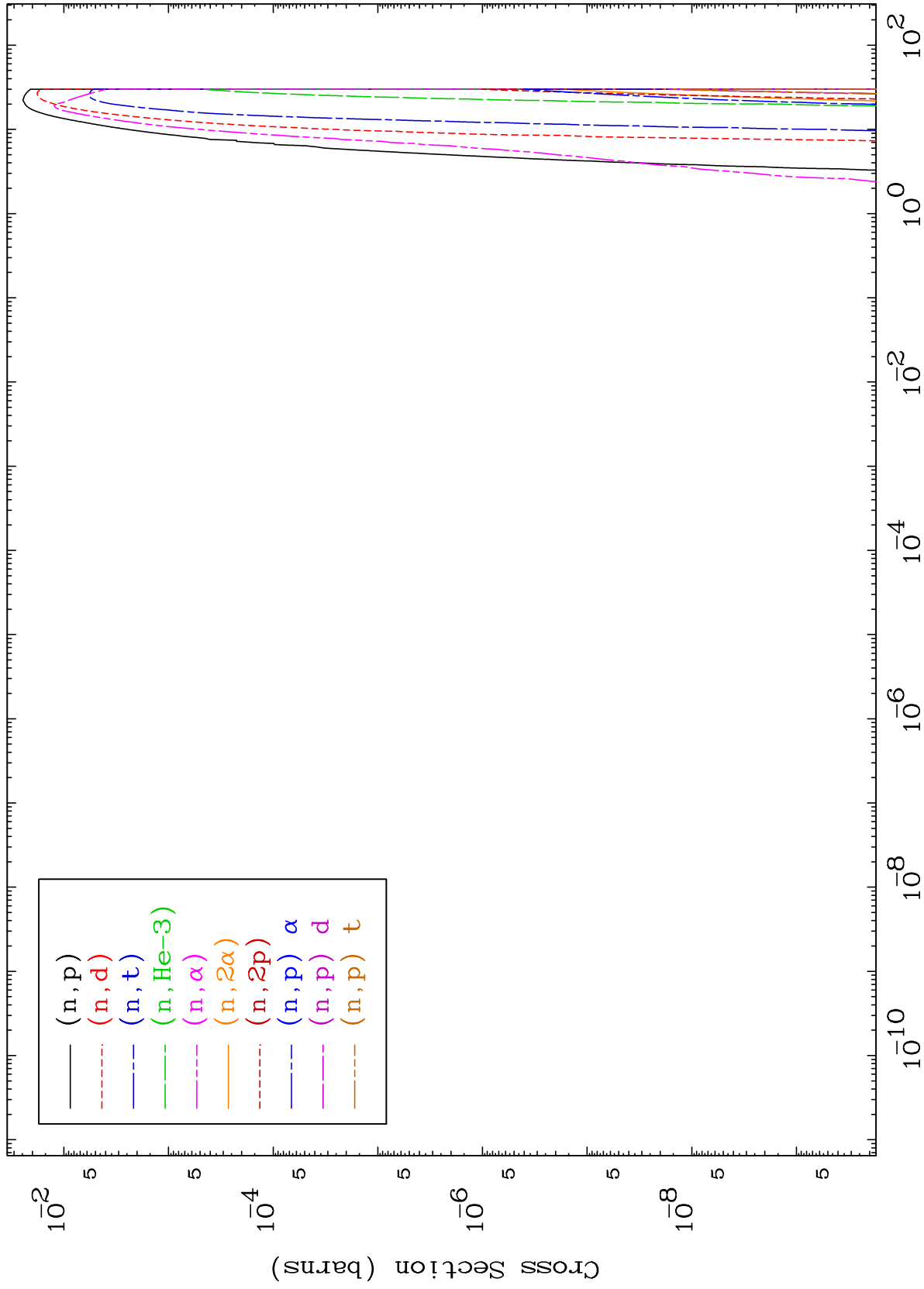




MAT 4137

Charged Particle
293 Kelvin Cross Sections

41-Nb-97



5

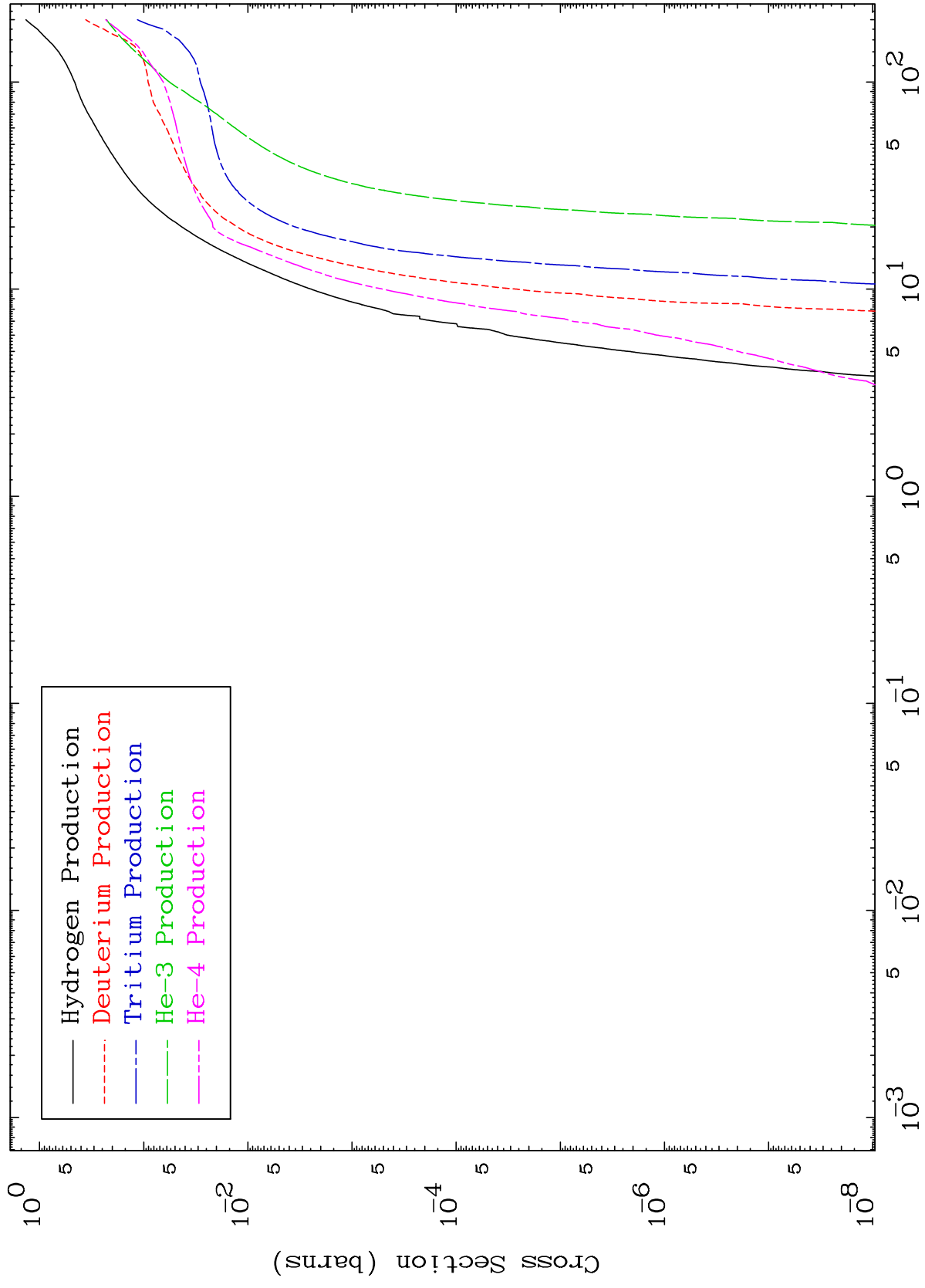
Incident Energy (MeV)

41-Nb-97

MAT 4137

Particle Production
293 Kelvin Cross Sections

41-Nb-97



41-Nb-97

Incident Energy (MeV)

6

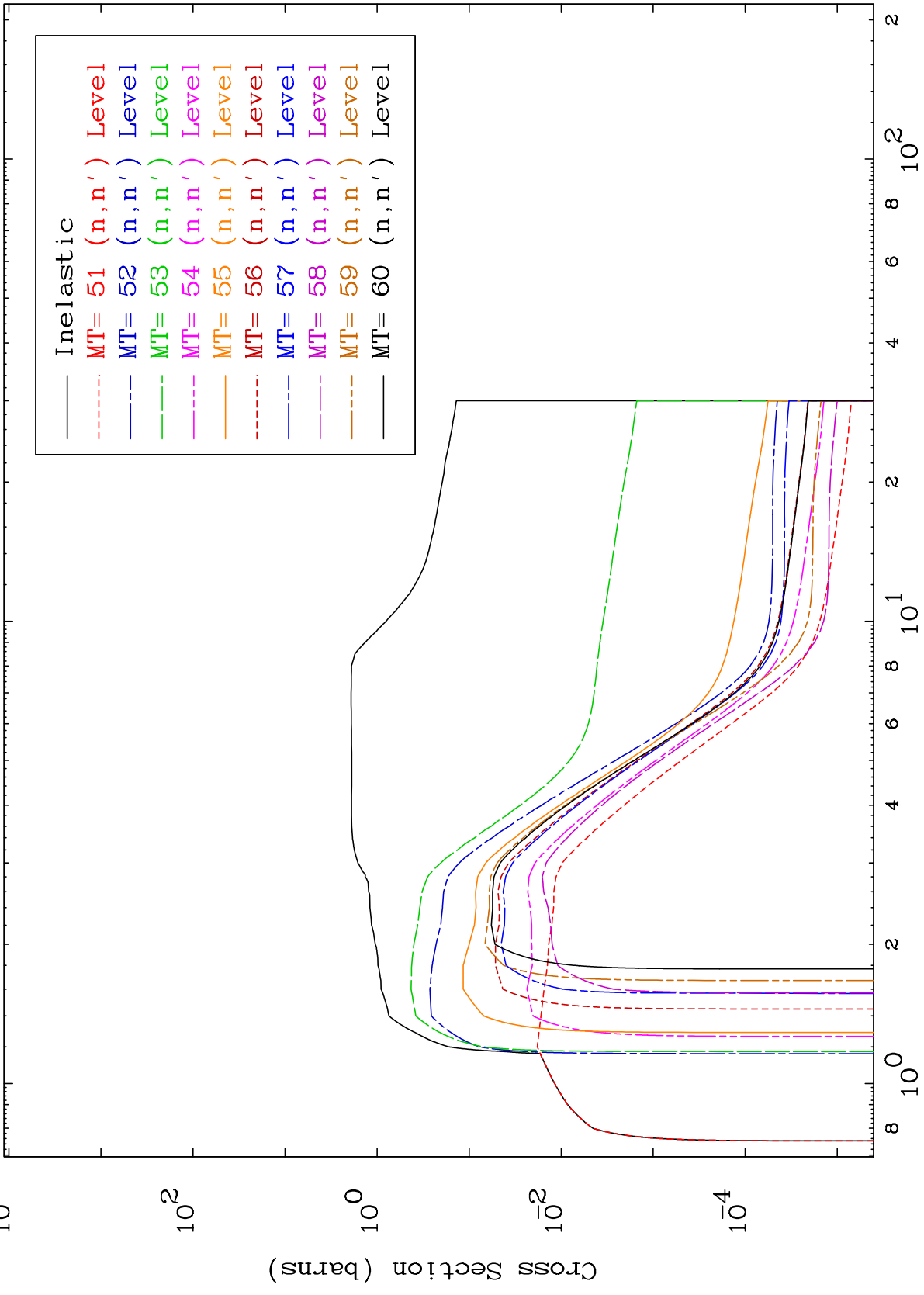
MAT 4137

(n,n') Level

41-Nb-97

293 Kelvin Cross Sections

41-Nb-97



7

Incident Energy (MeV)

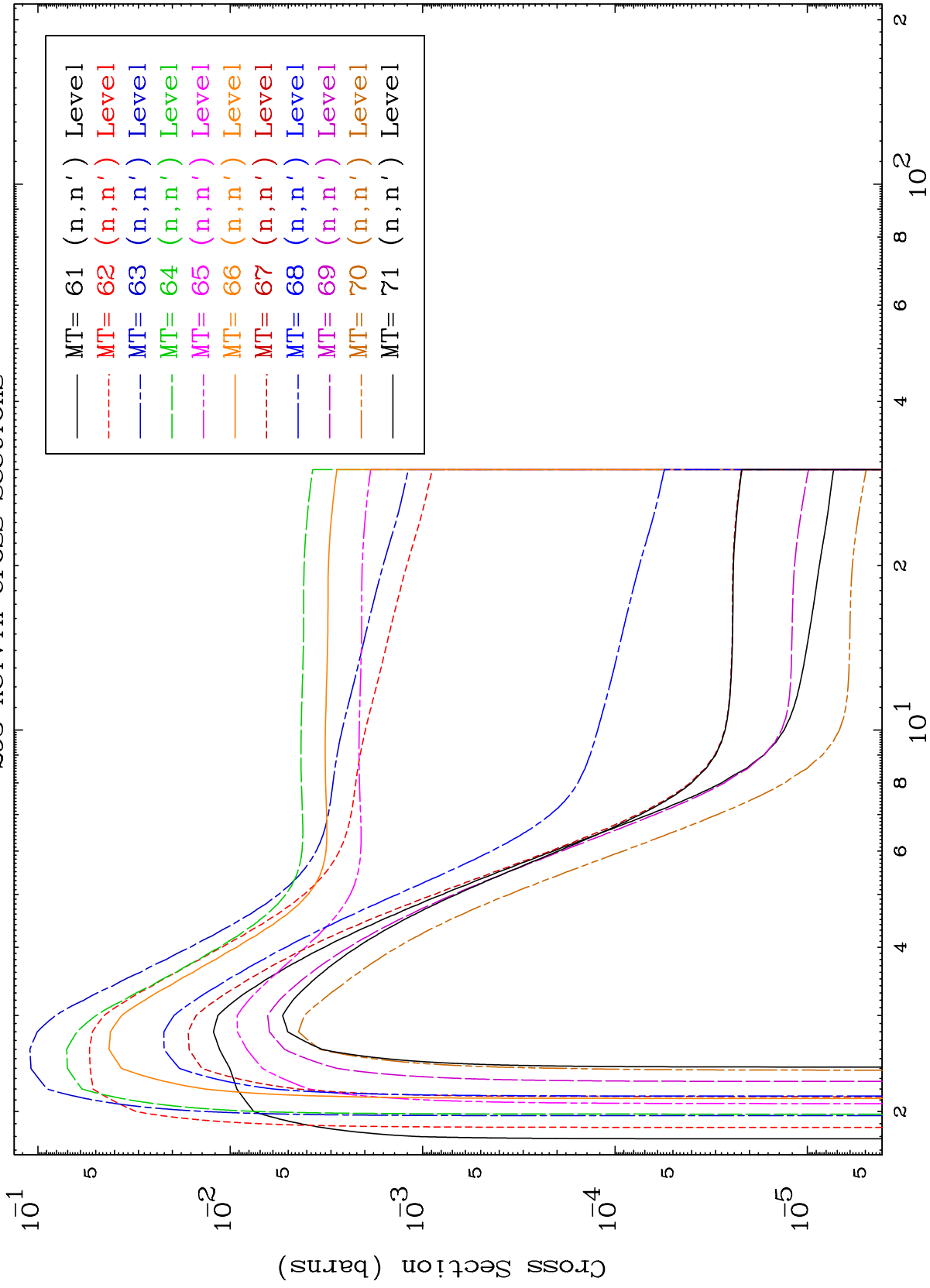
41-Nb-97

MAT 4137

(n,n') Level

293 Kelvin Cross Sections

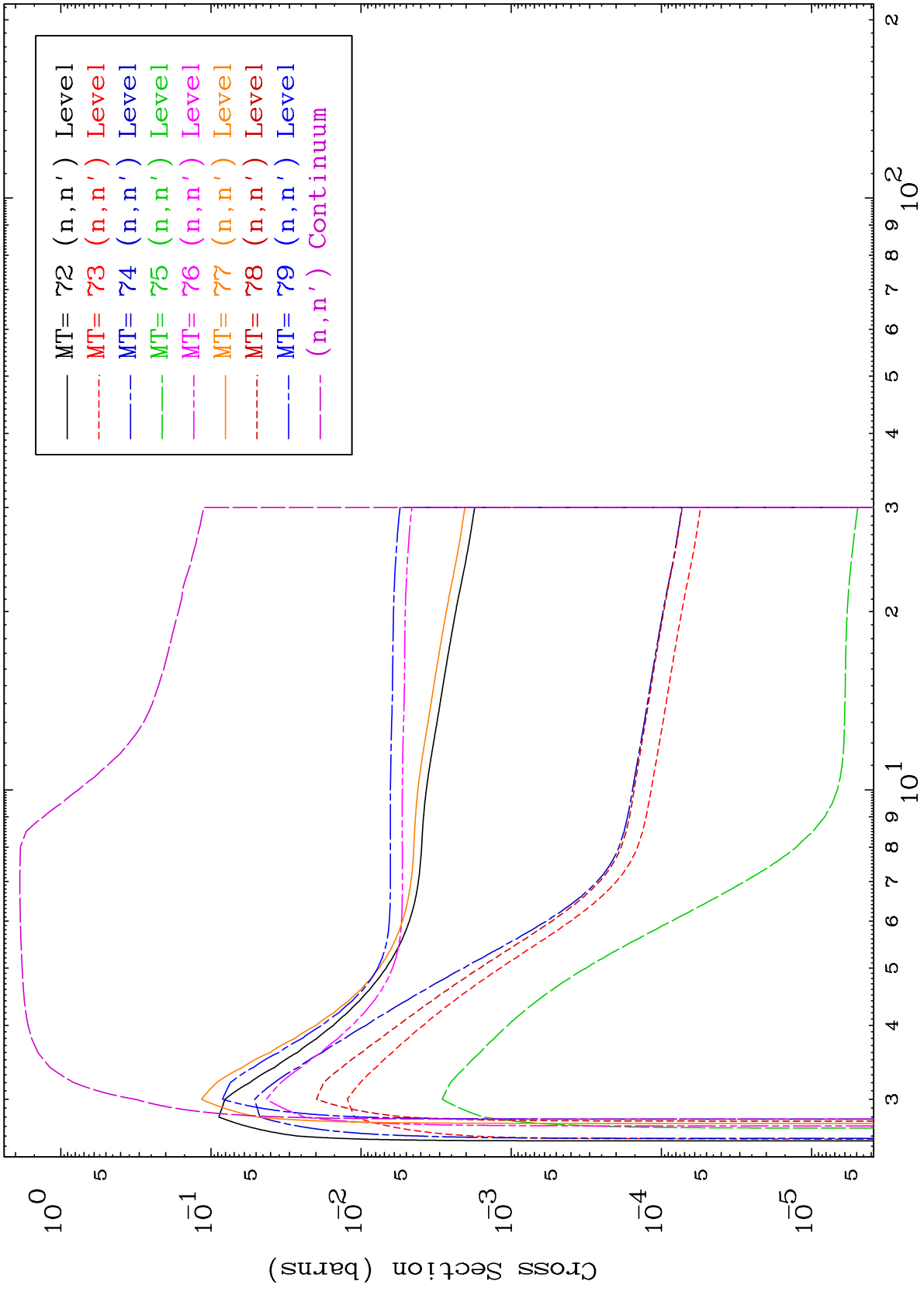
41-Nb-97



8

Incident Energy (MeV)

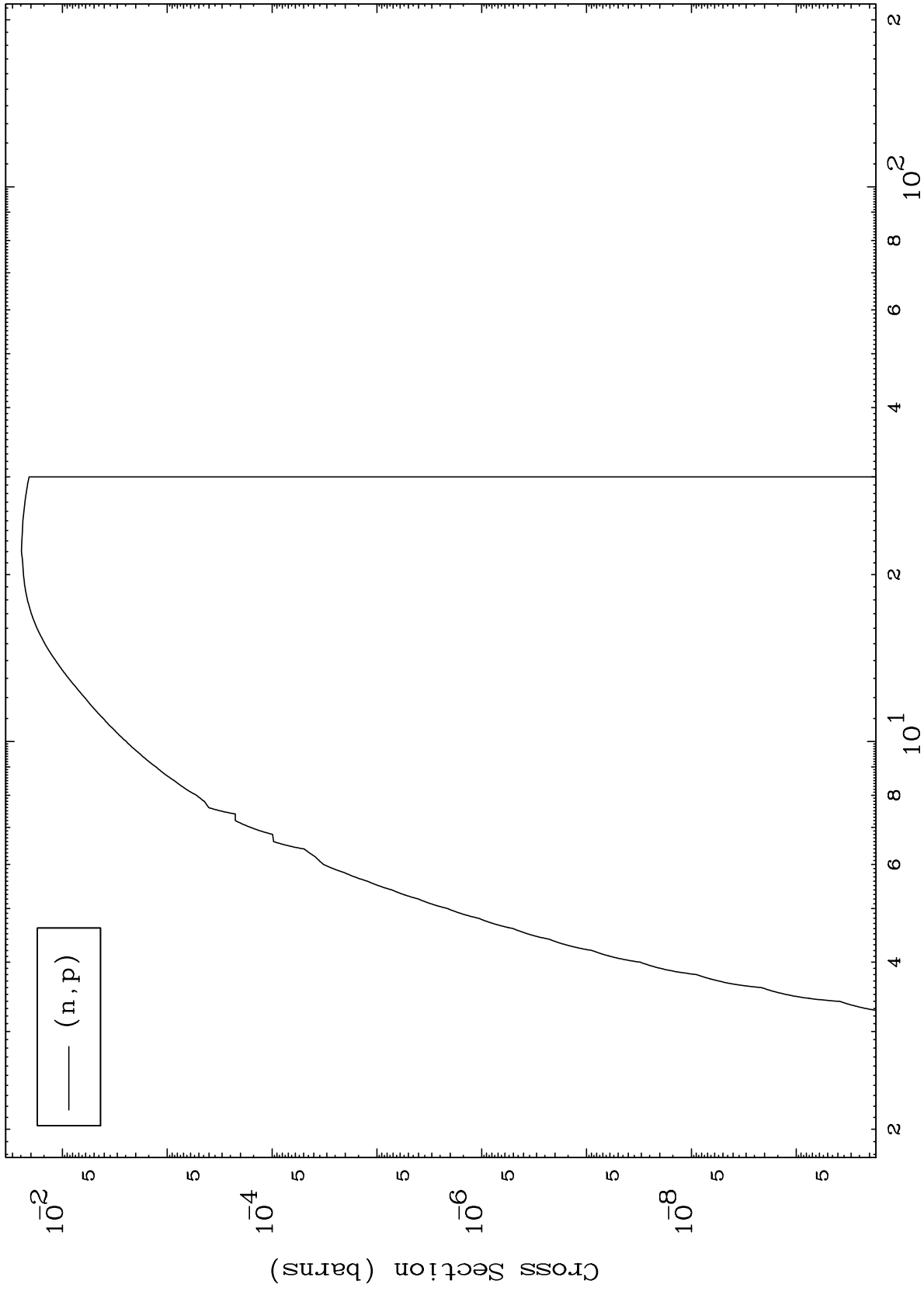
41-Nb-97



MAT 4137

(n,p) Levels
293 Kelvin Cross Sections

41-Nb-97



10

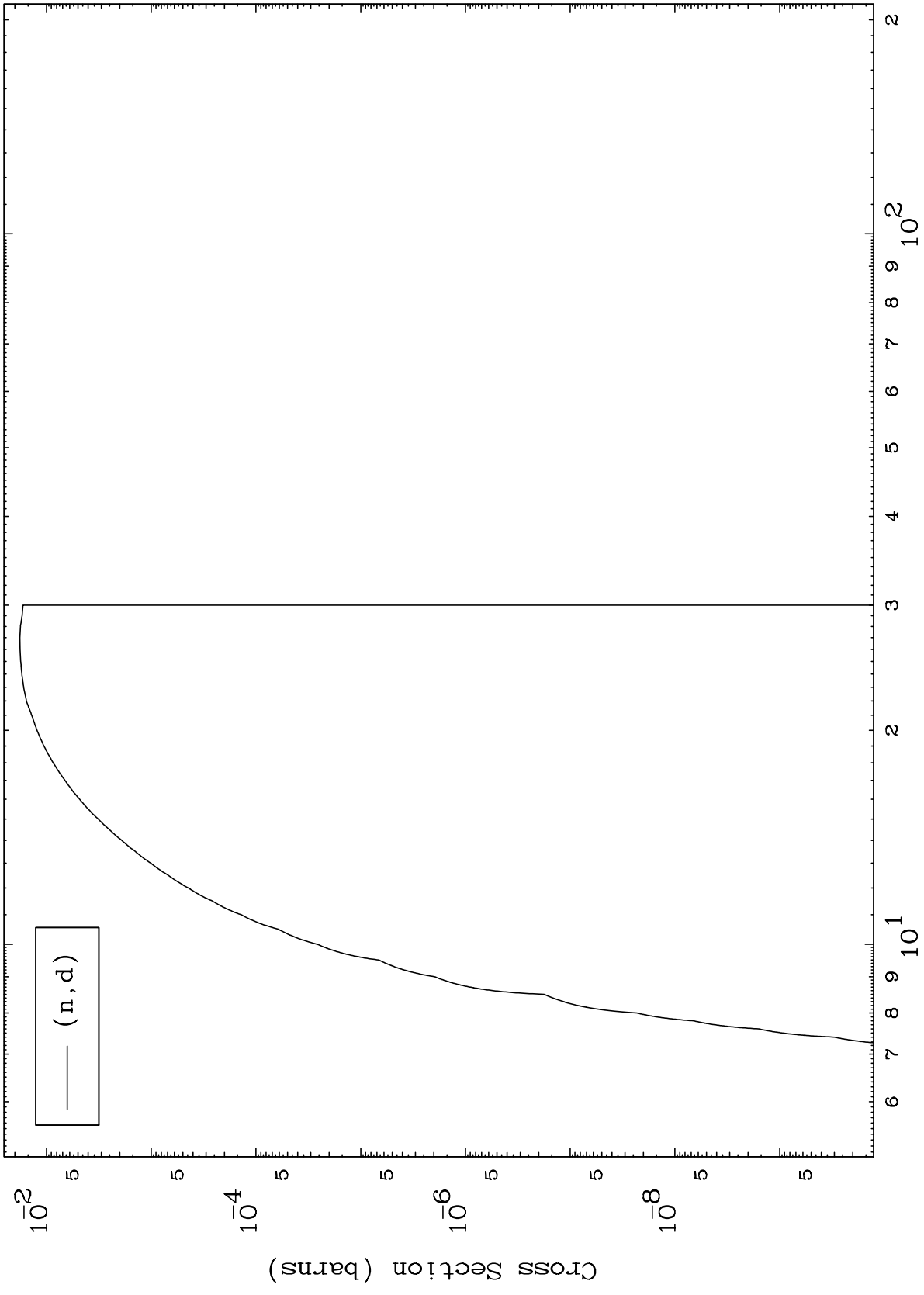
Incident Energy (MeV)

41-Nb-97

MAT 4137

(n,d) Levels
293 Kelvin Cross Sections

41-Nb-97



11

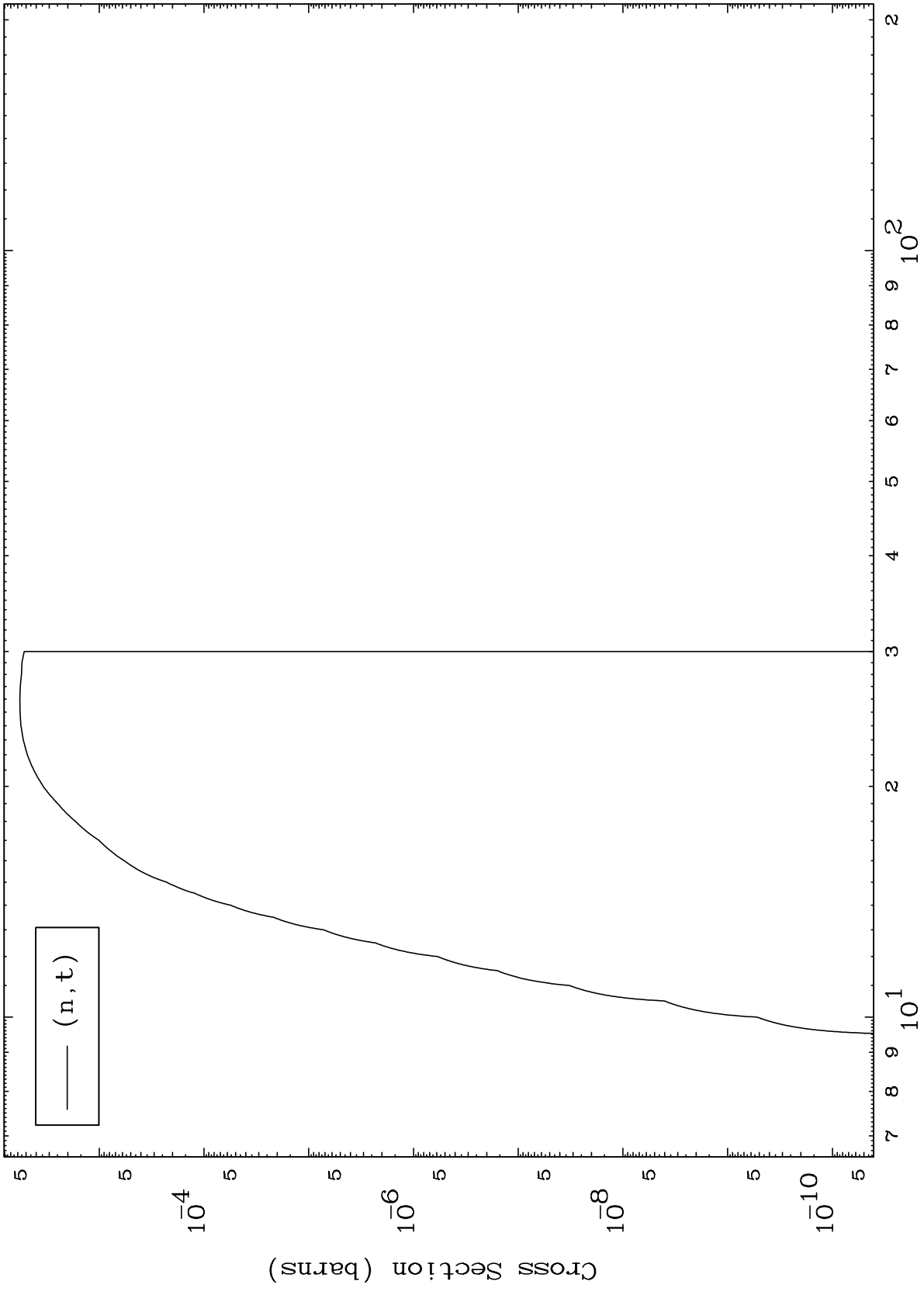
Incident Energy (MeV)

41-Nb-97

MAT 4137

(n,t) Levels
293 Kelvin Cross Sections

41-Nb-97



12

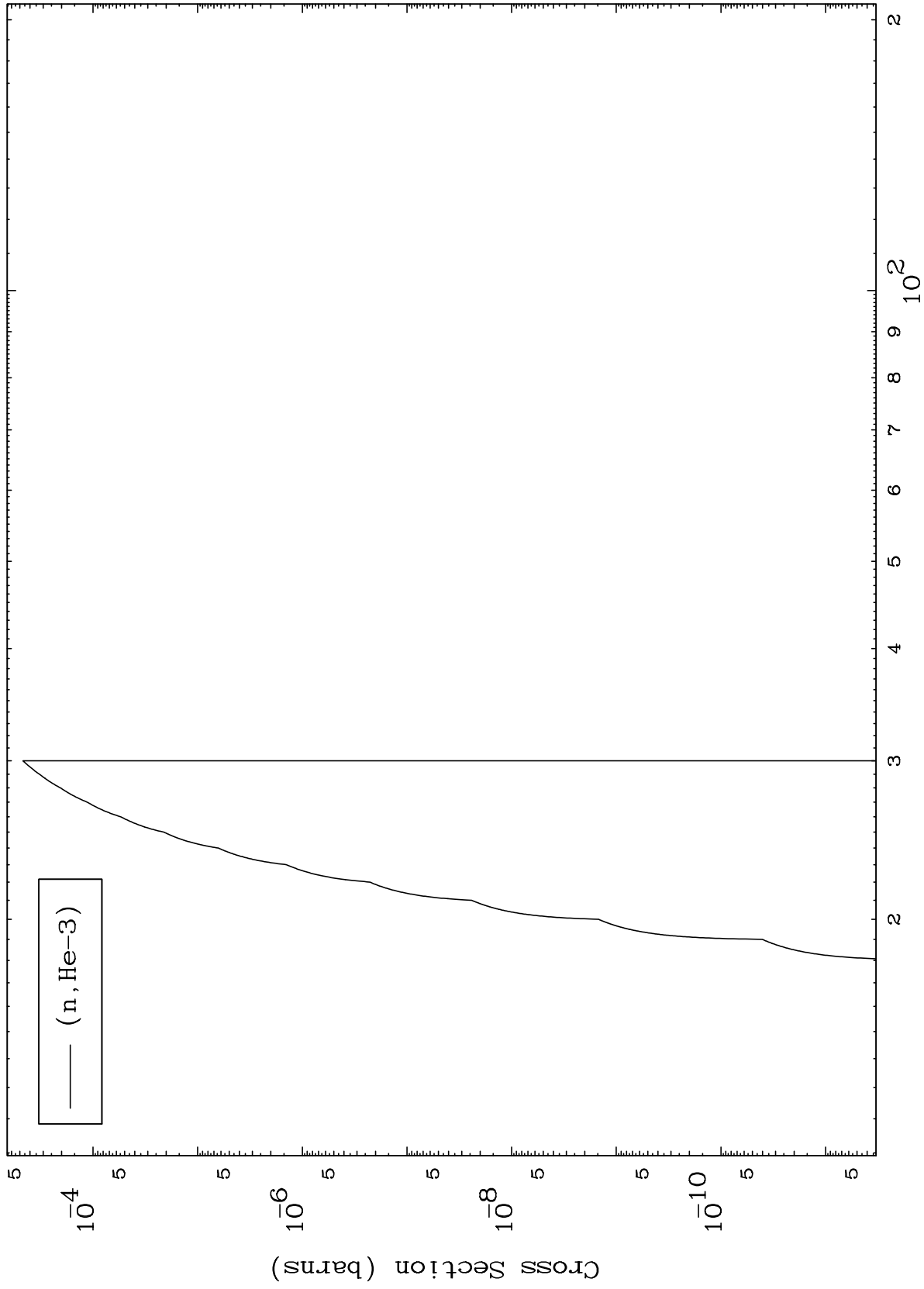
Incident Energy (MeV)

41-Nb-97

MAT 4137

(n,He3) Levels
293 Kelvin Cross Sections

41-Nb-97



13

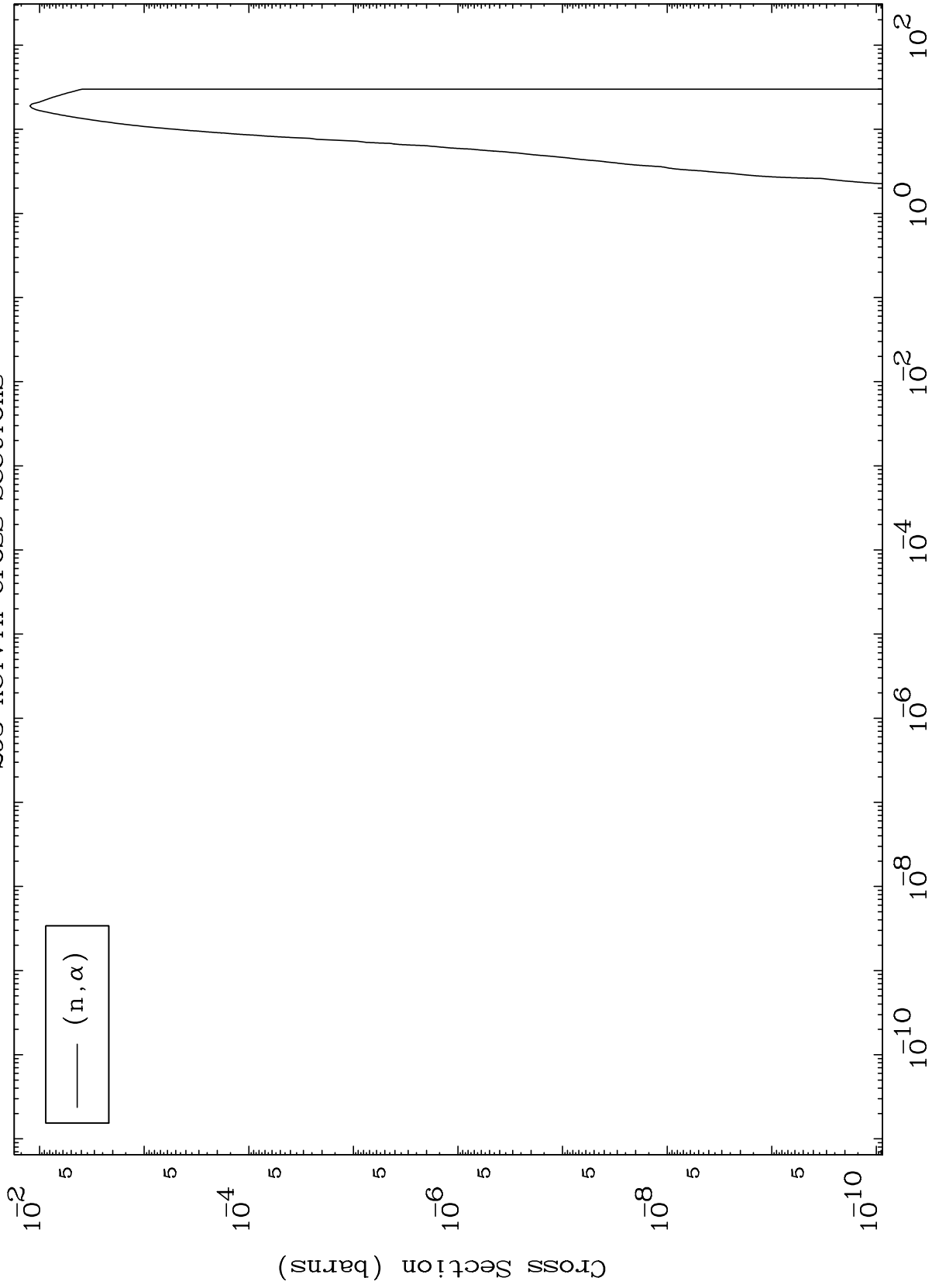
Incident Energy (MeV)

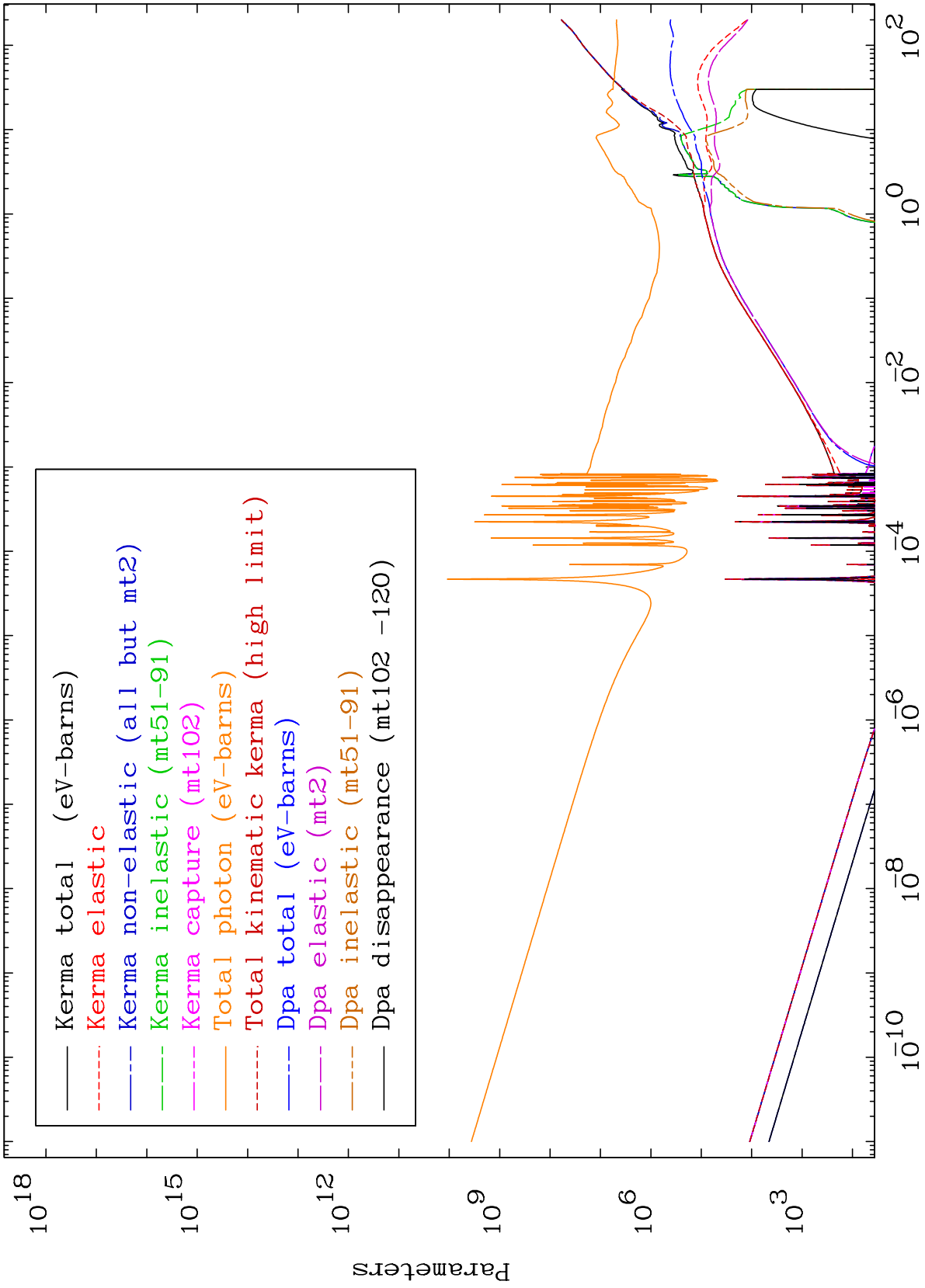
41-Nb-97

MAT 4137

(n,α) Levels
293 Kelvin Cross Sections

41-Nb-97

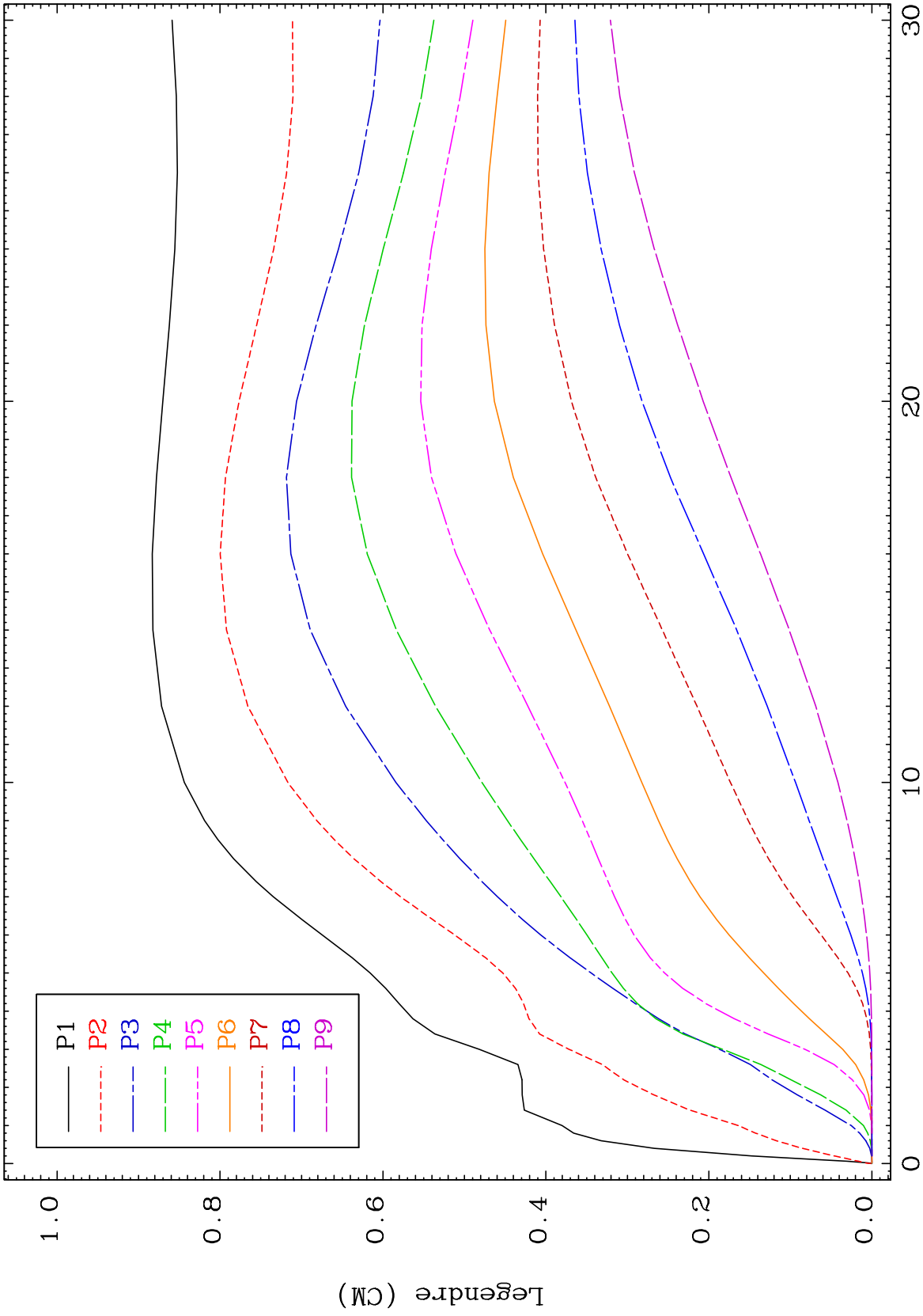




MAT 4137

Elastic Legendre Coefficients

41-Nb-97



16

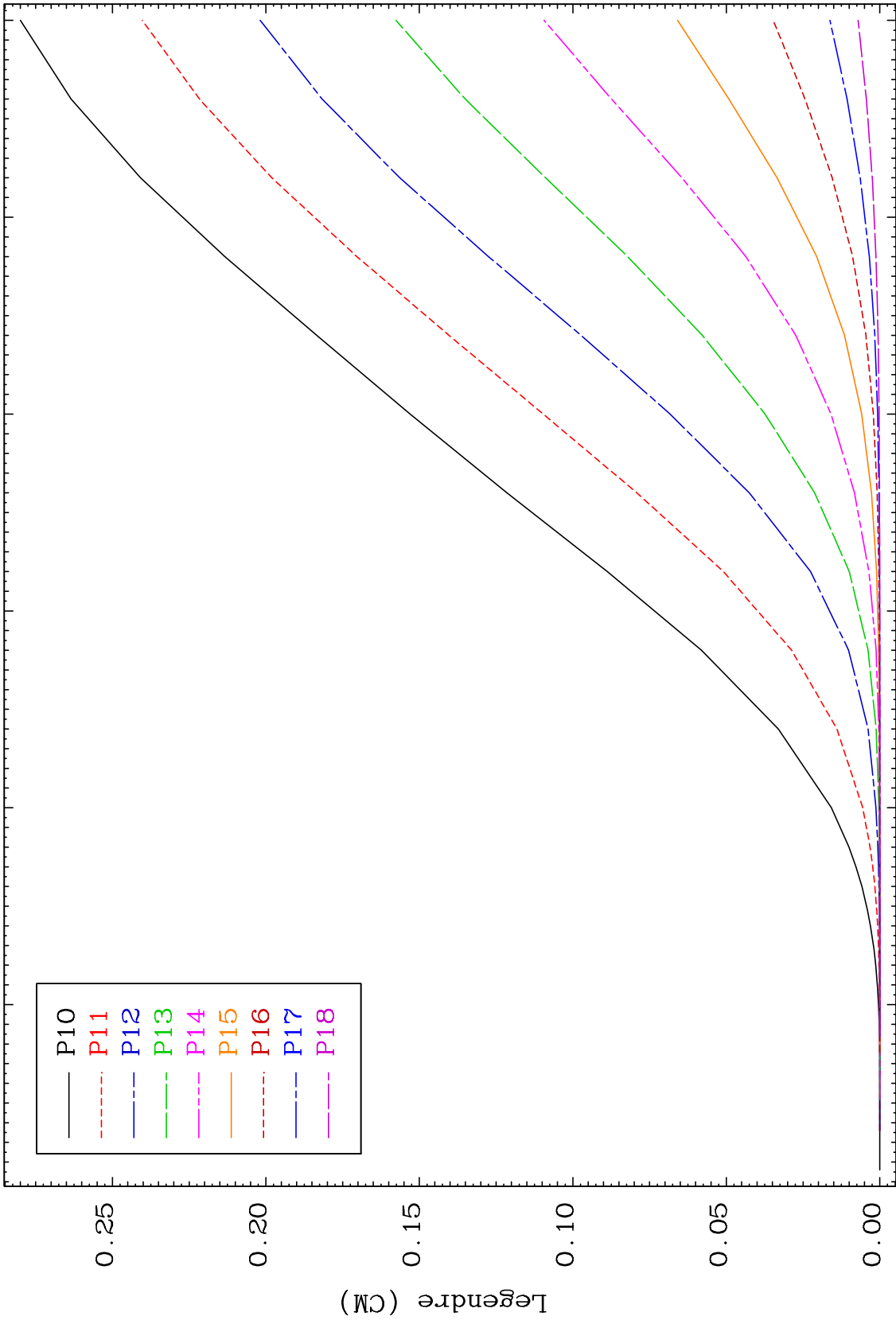
Incident Energy (MeV)

41-Nb-97

MAT 4137

Elastic Legendre Coefficients

41-Nb-97



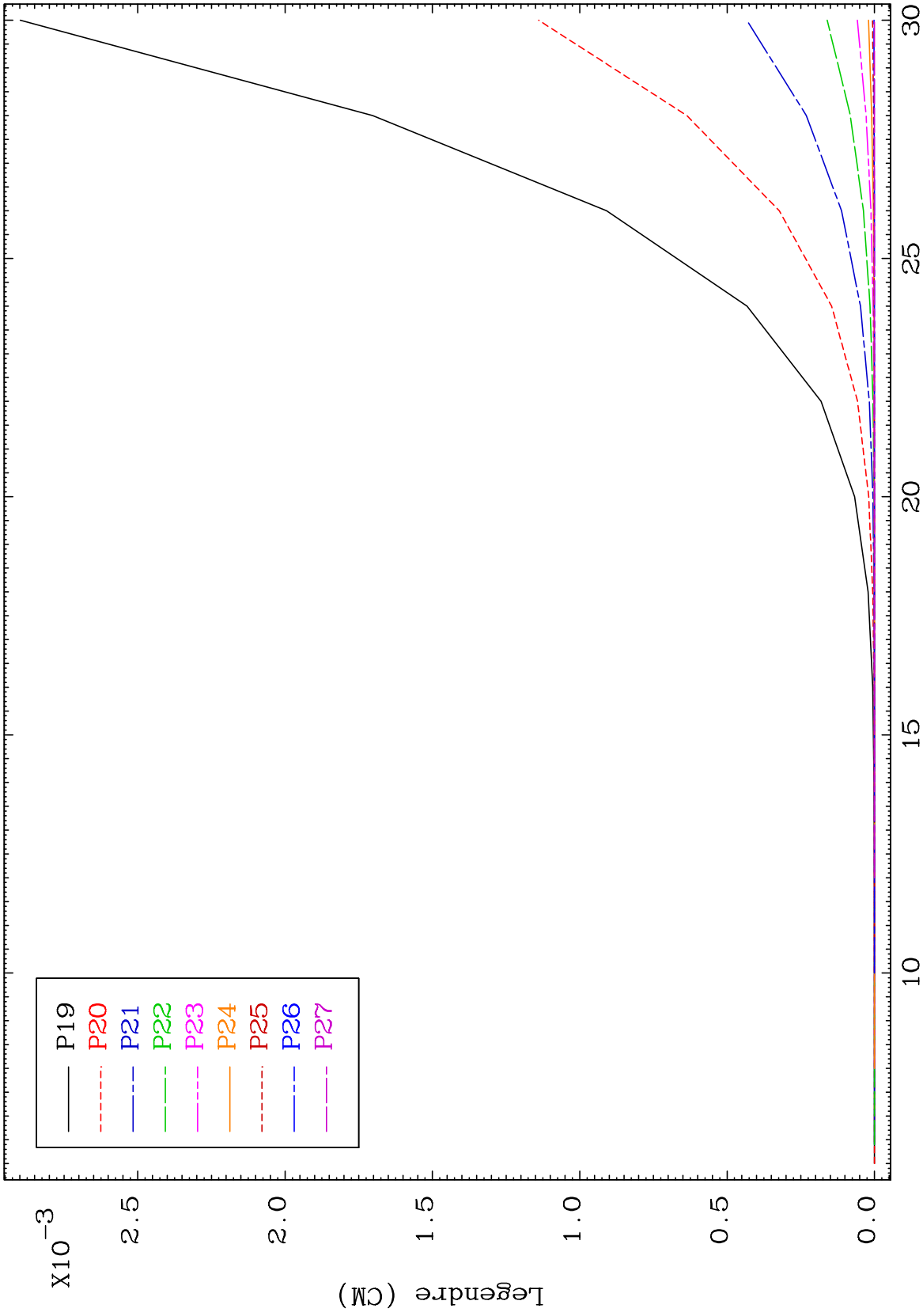
17

41-Nb-97

MAT 4137

Elastic Legendre Coefficients

41-Nb-97



18

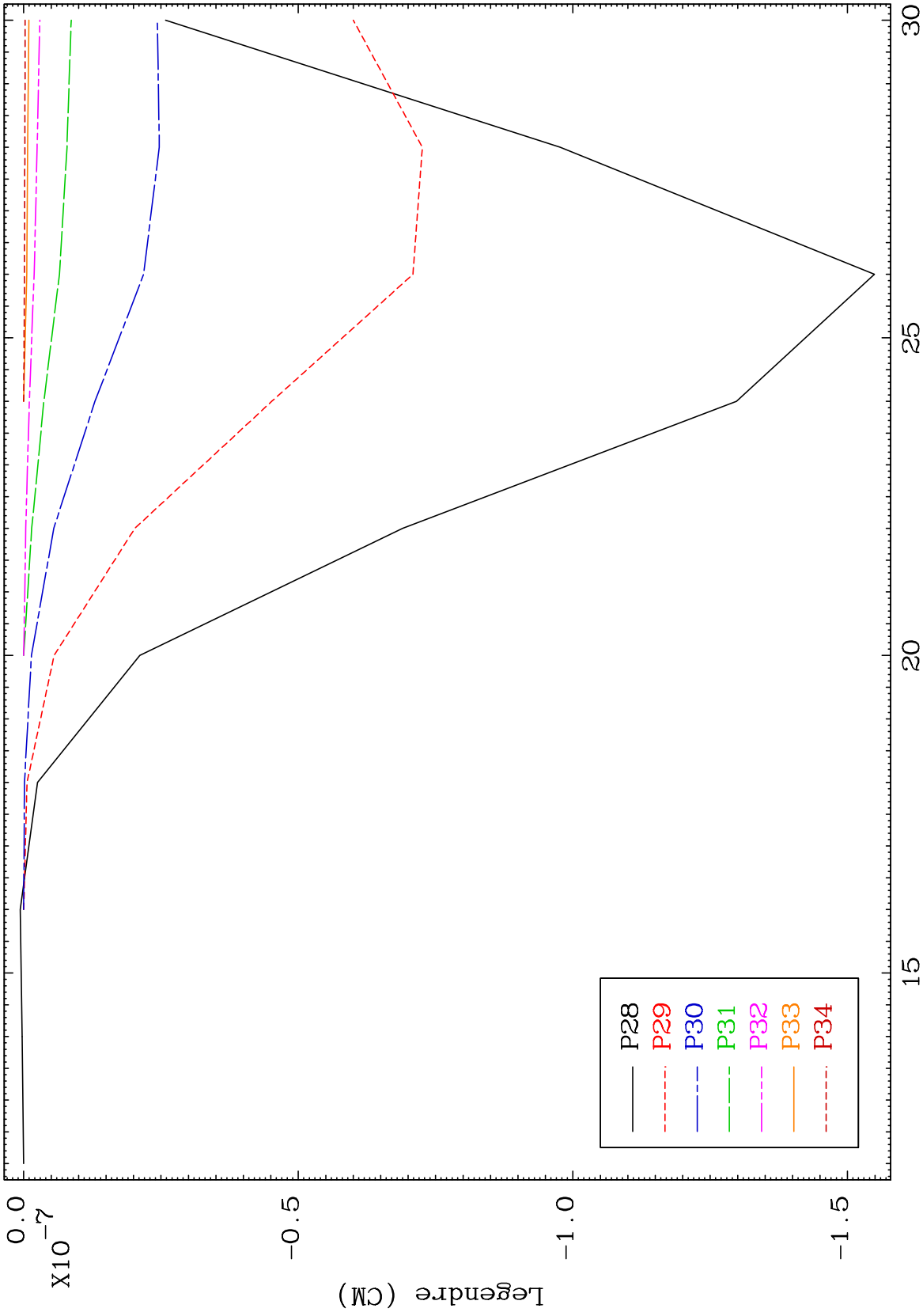
Incident Energy (MeV)

41-Nb-97

MAT 4137

41-Nb-97

Elastic Legendre Coefficients



19

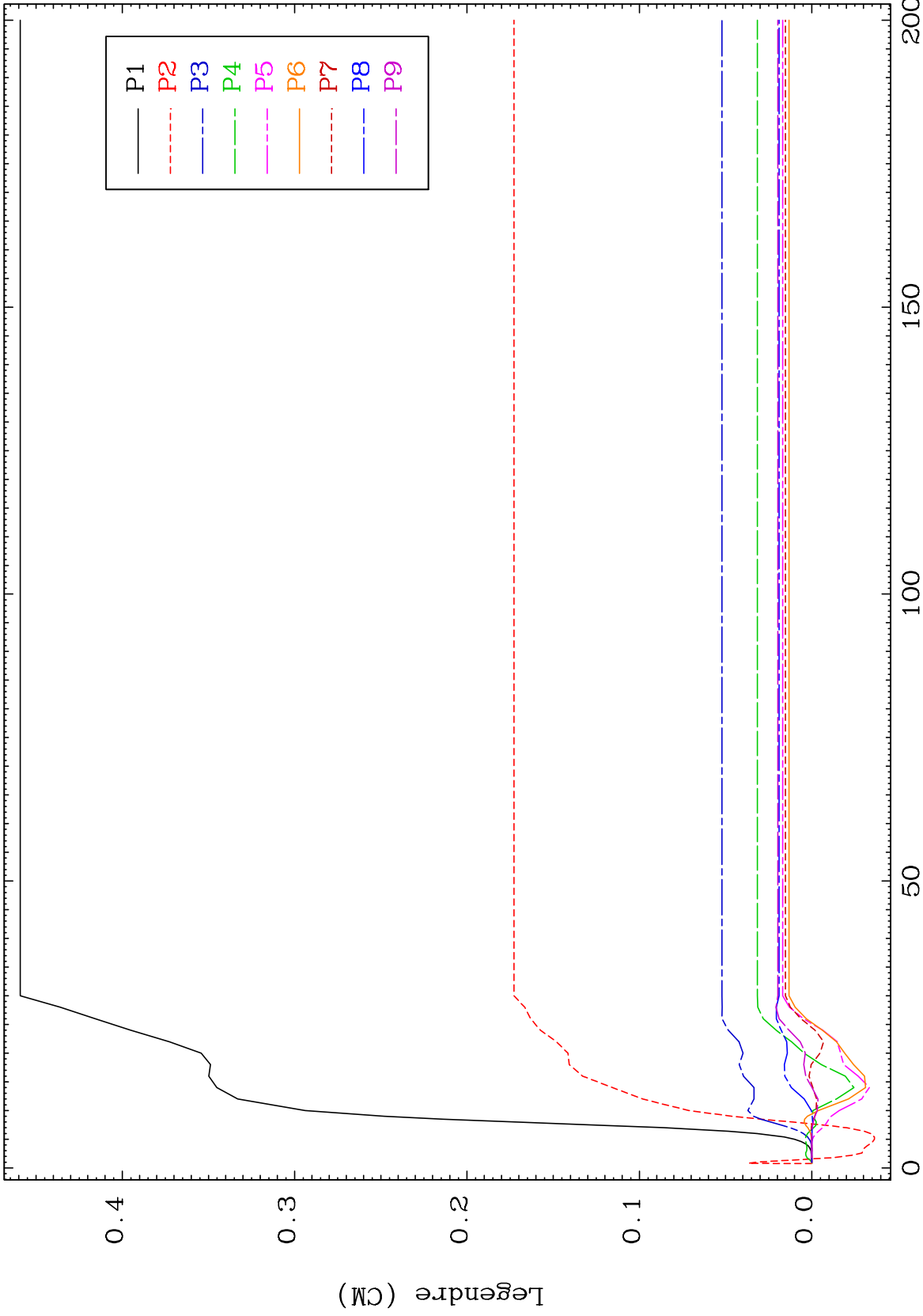
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



20

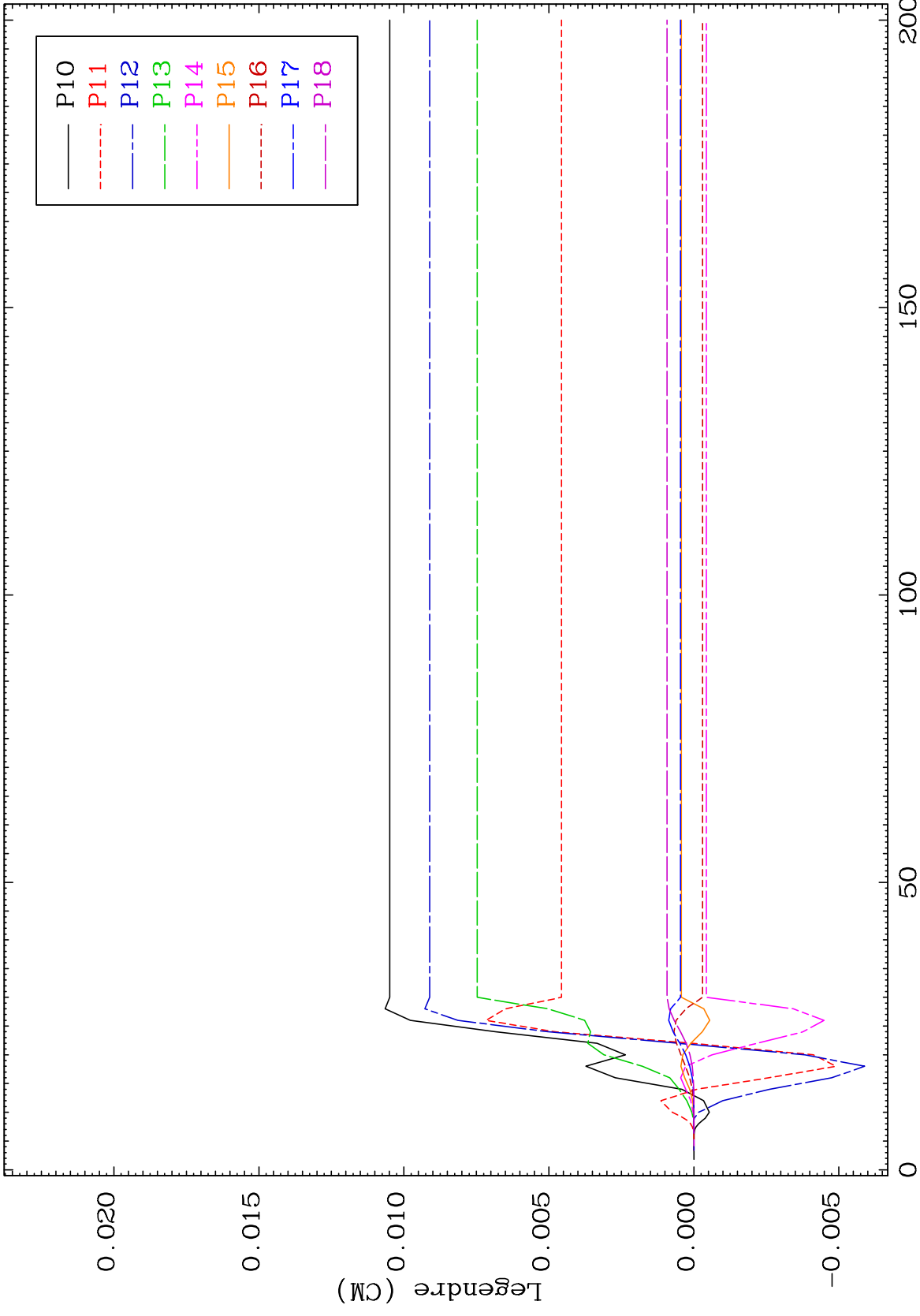
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



21

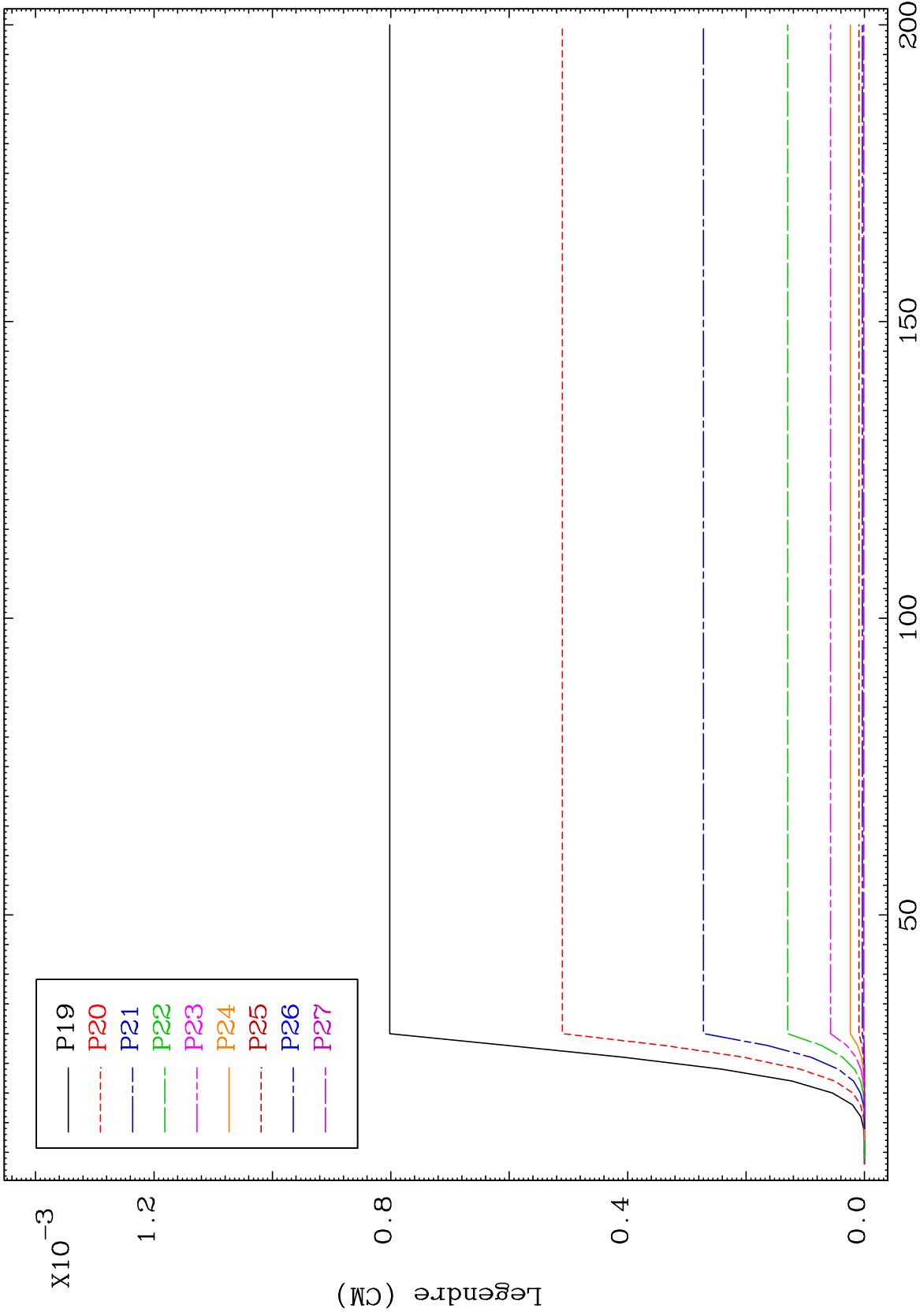
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



22

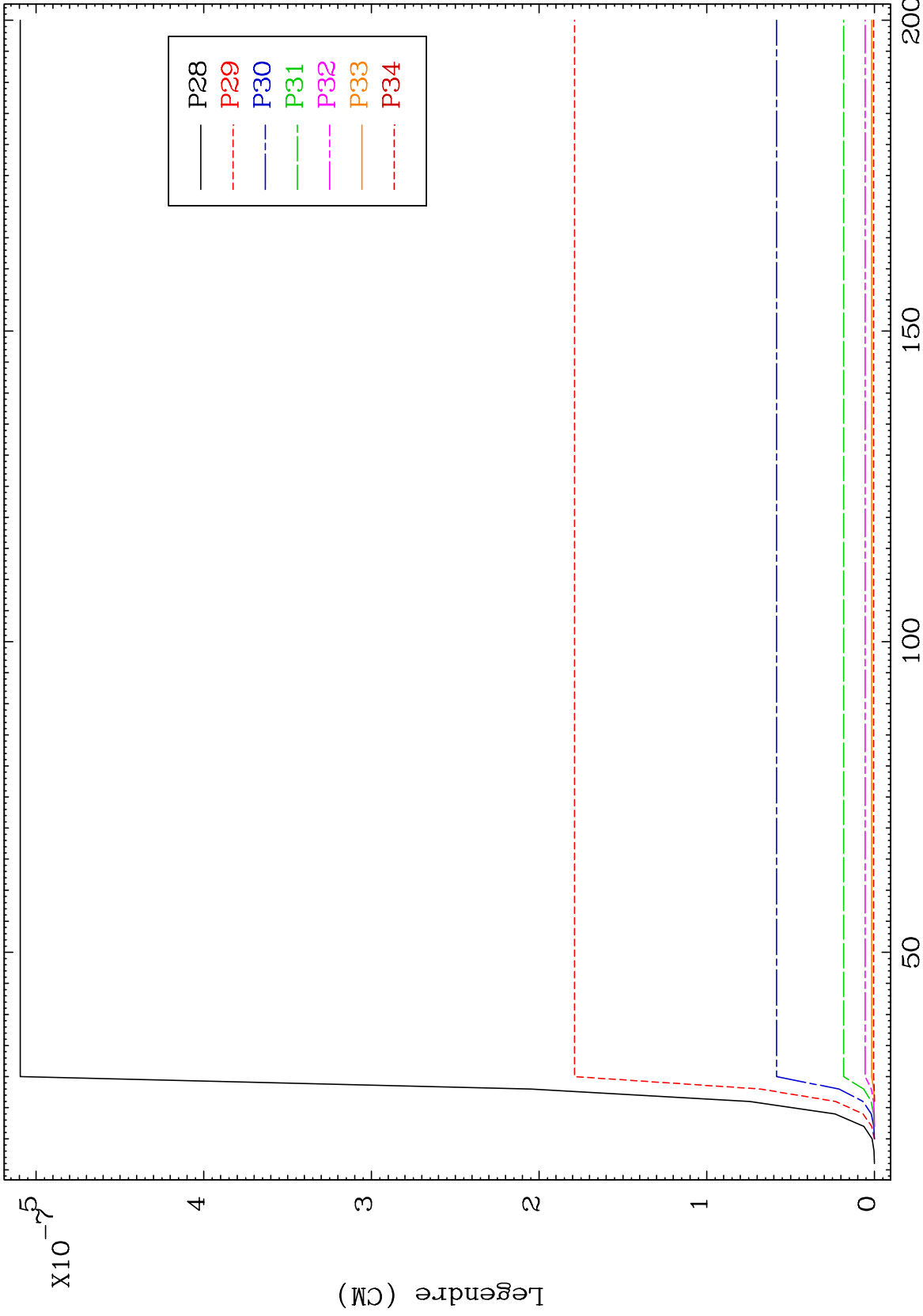
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



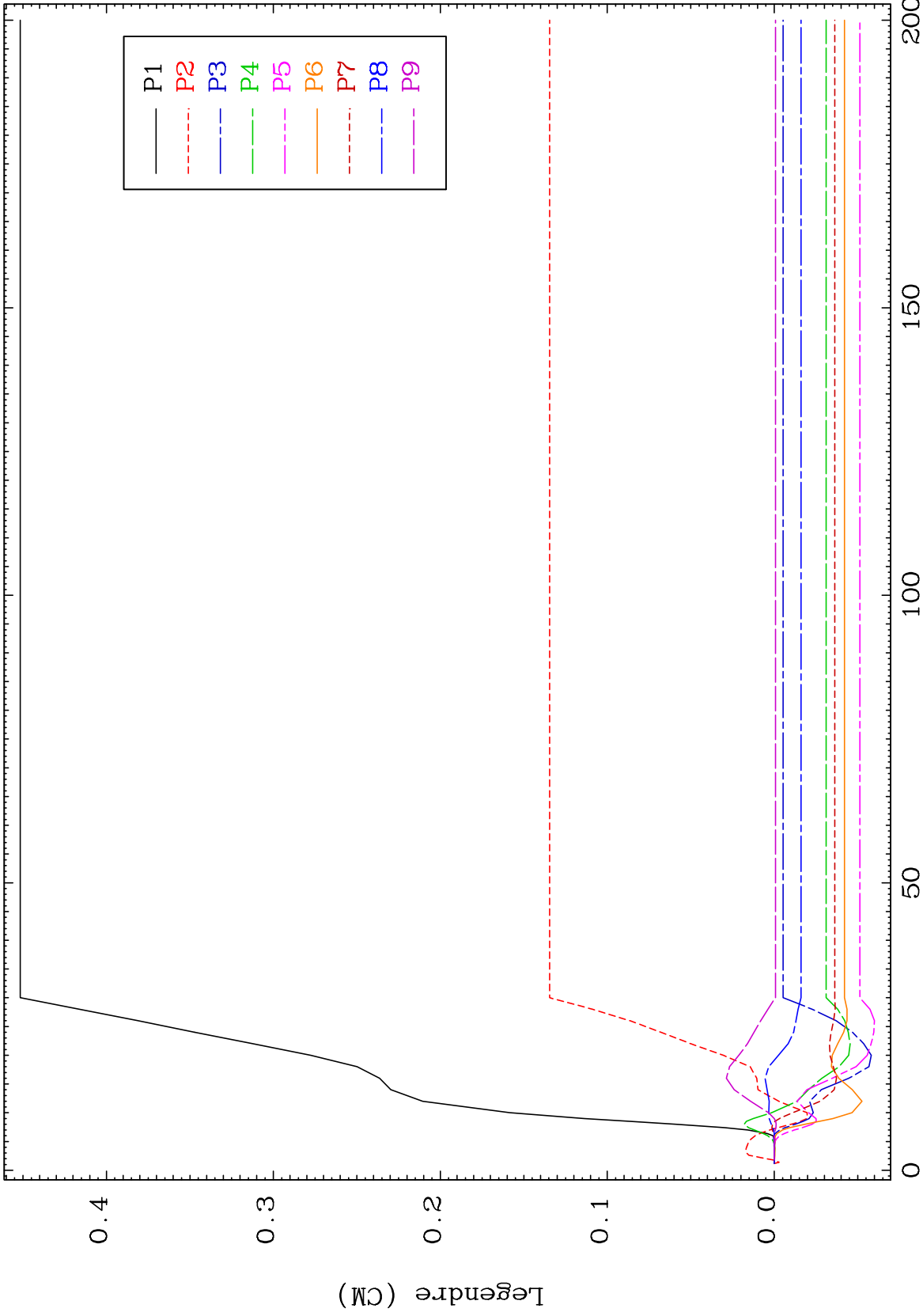
23

41-Nb-97

MAT 4137

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

41-Nb-97



24

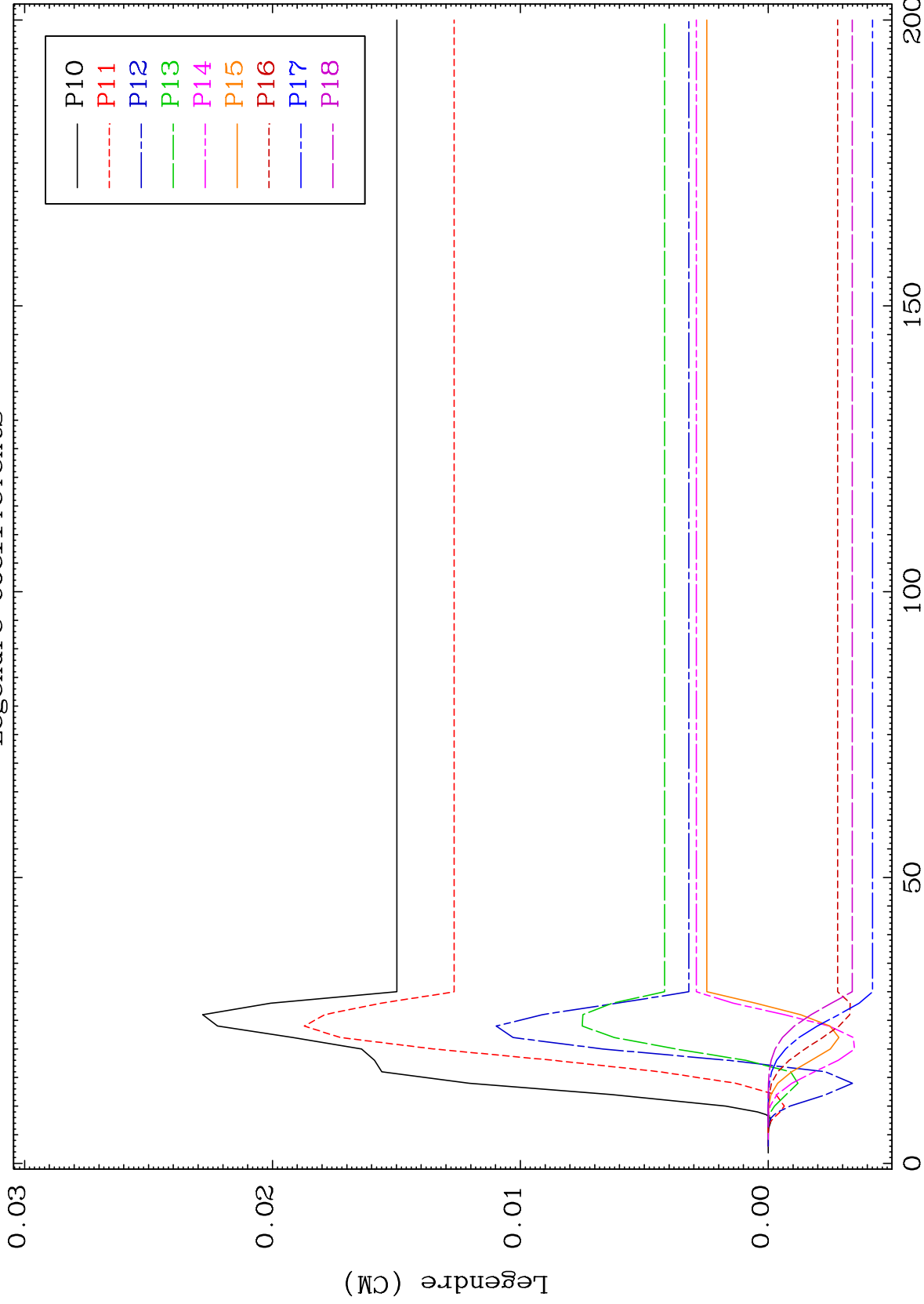
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



25

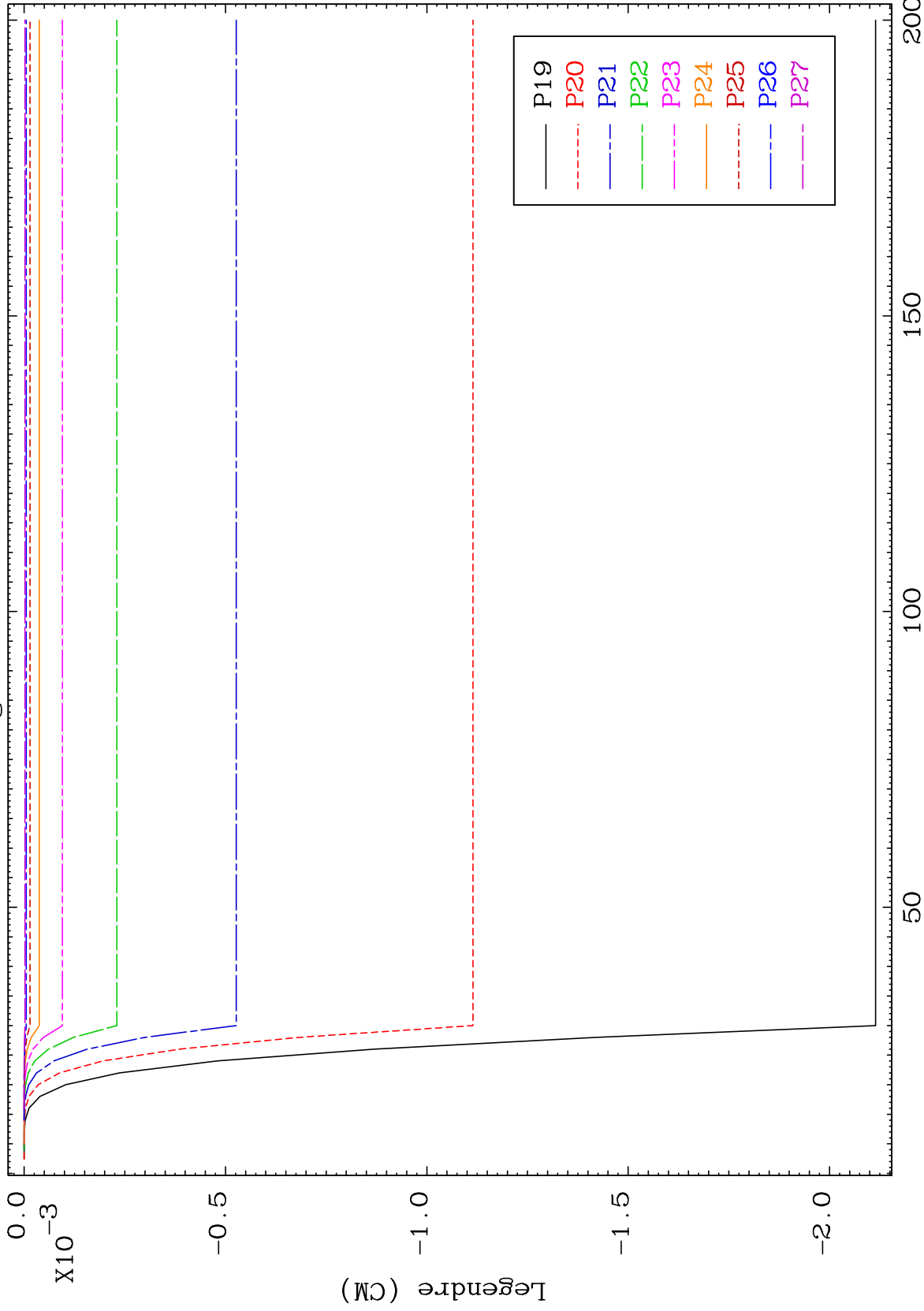
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



26

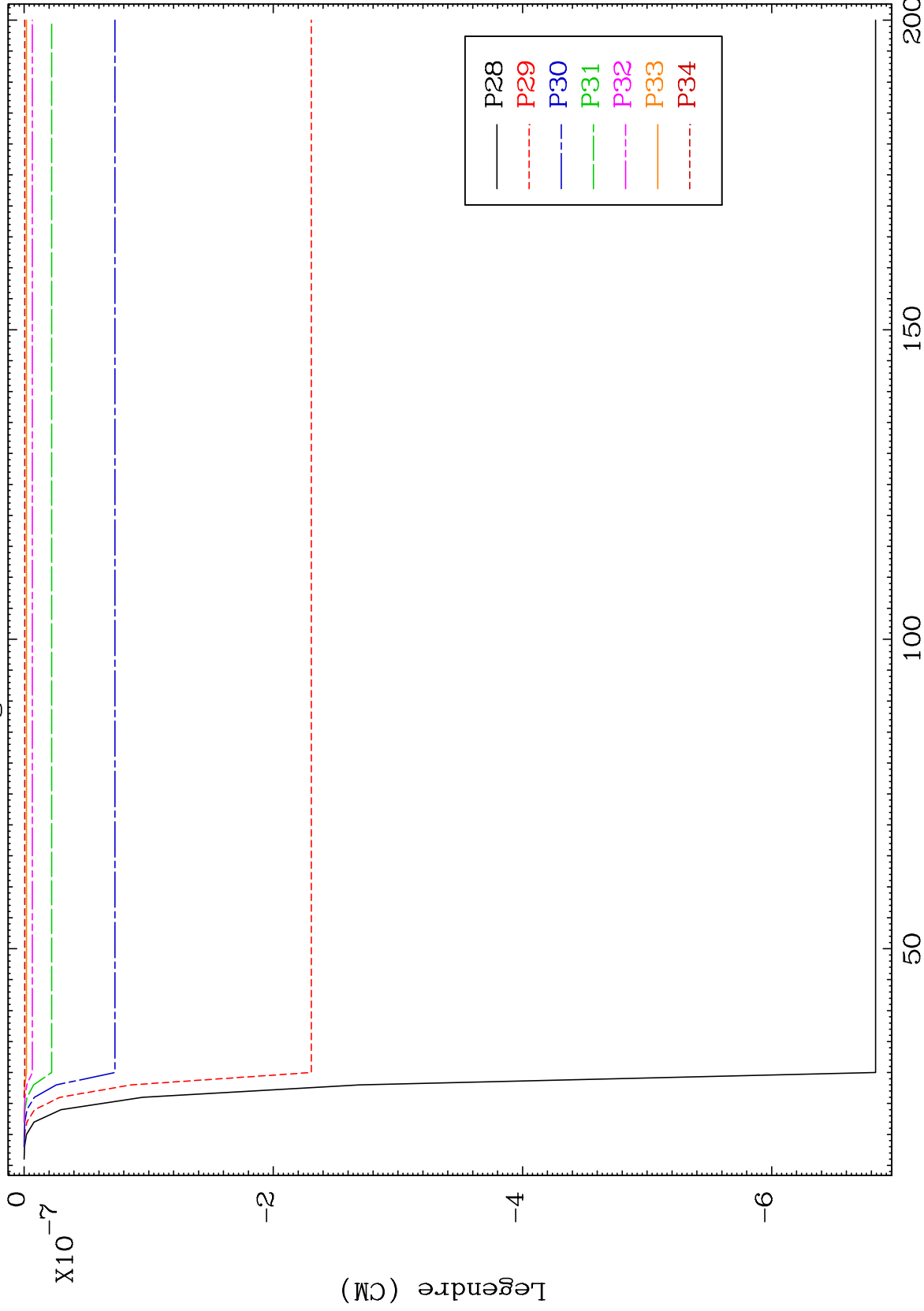
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



41-Nb-97

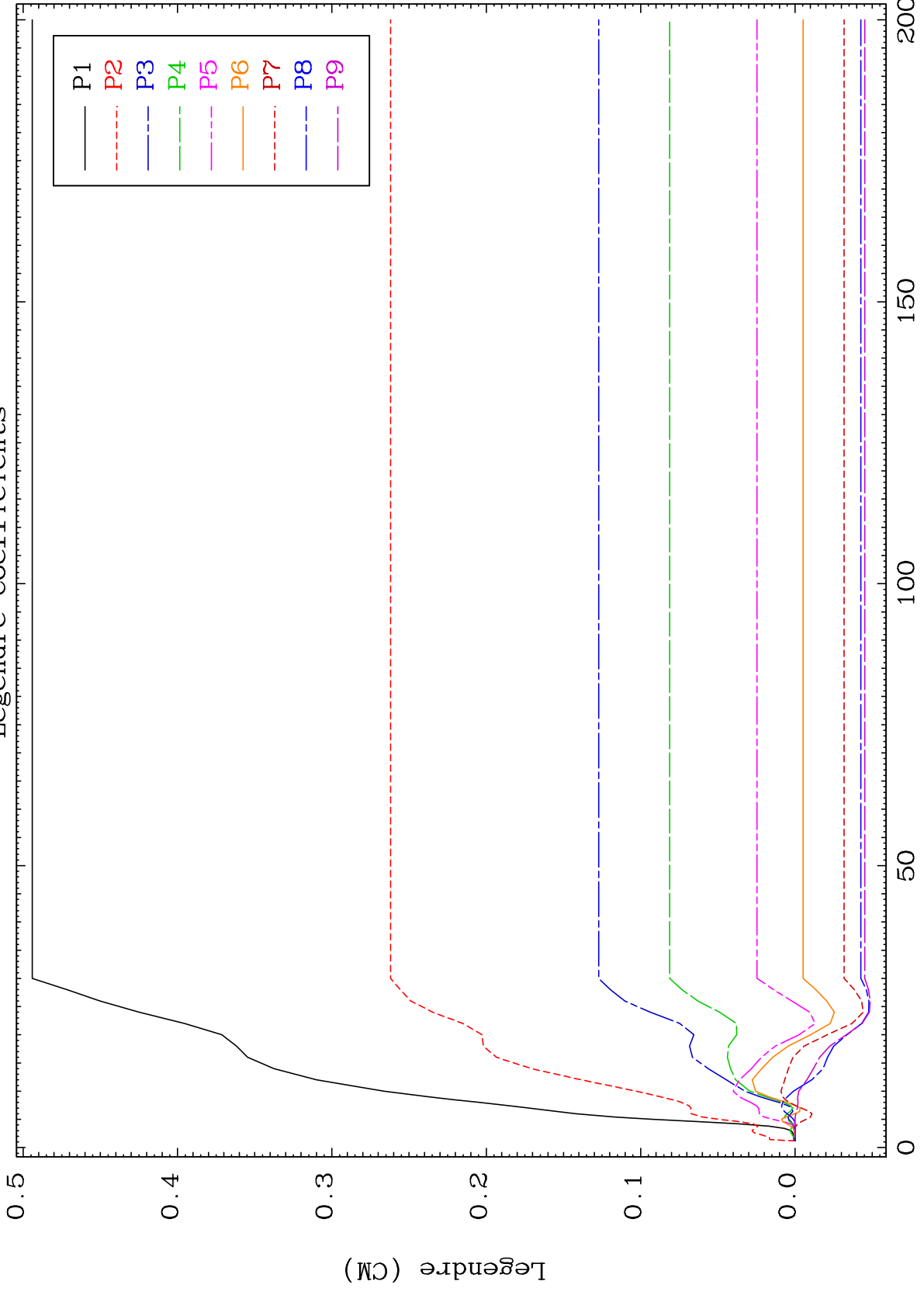
Incident Energy (MeV)

27

MAT 4137

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

41-Nb-97



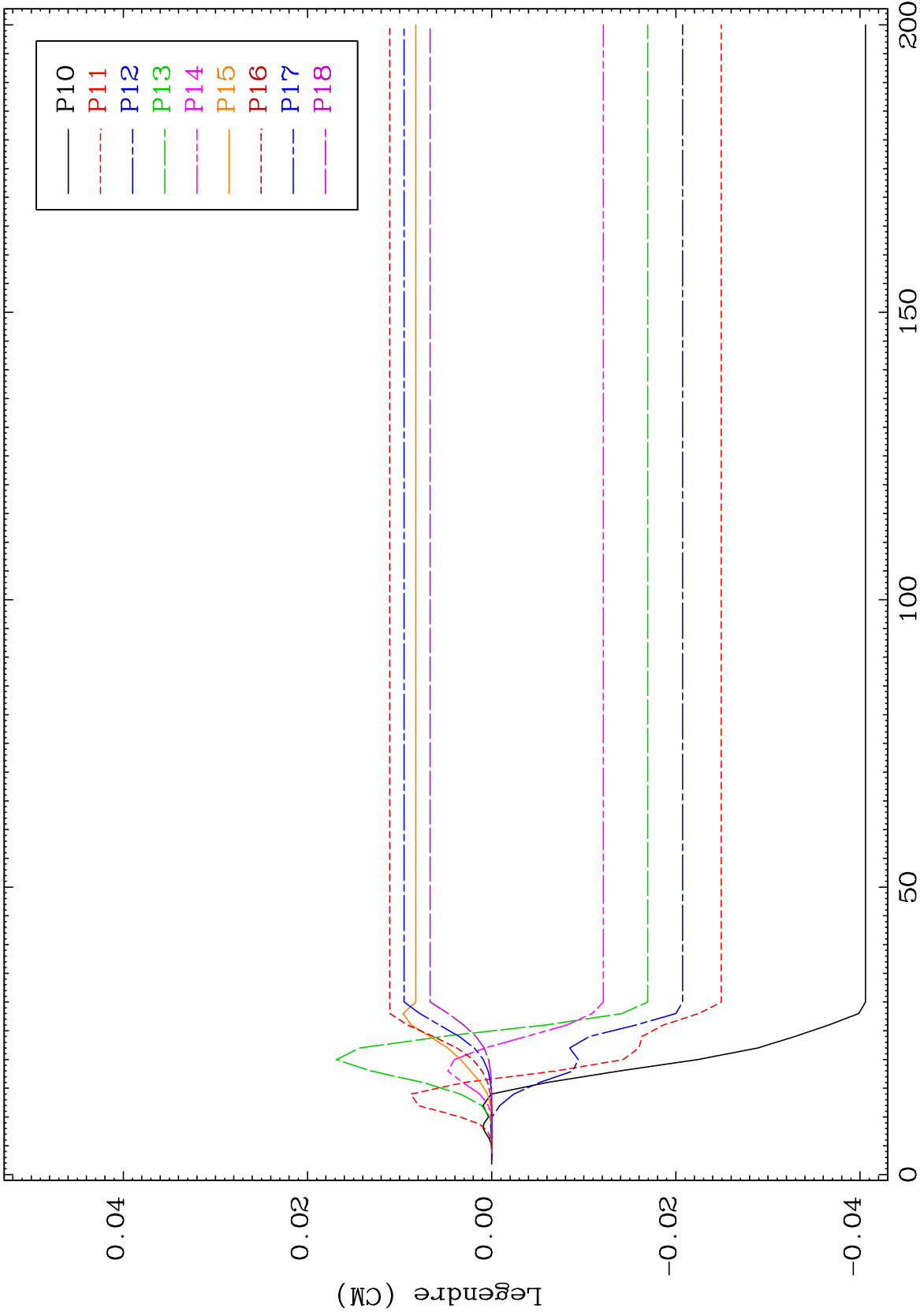
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41-Nb-97

MAT 4137

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

41-Nb-97



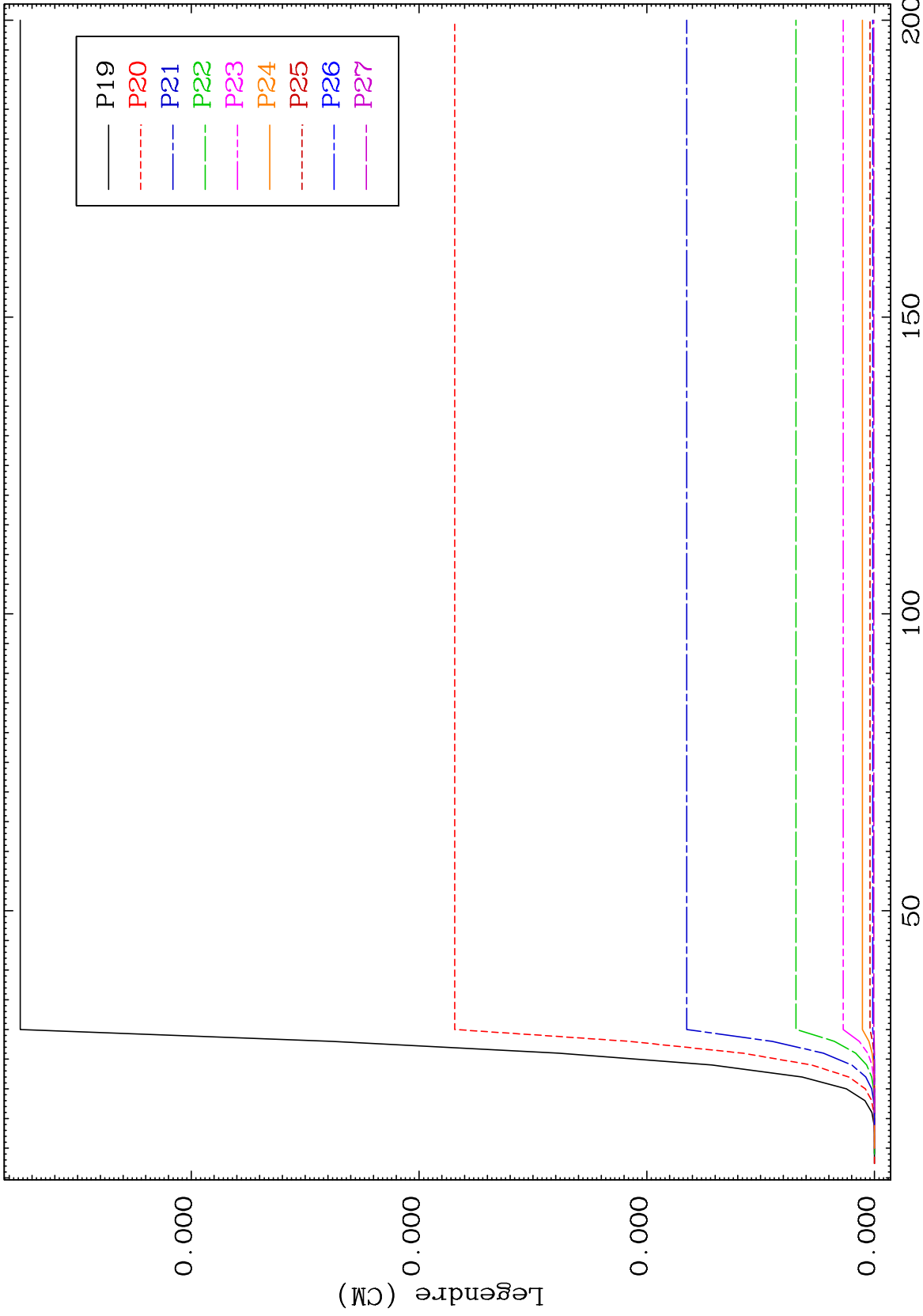
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41-Nb-97

MAT 4137

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

41-Nb-97



30

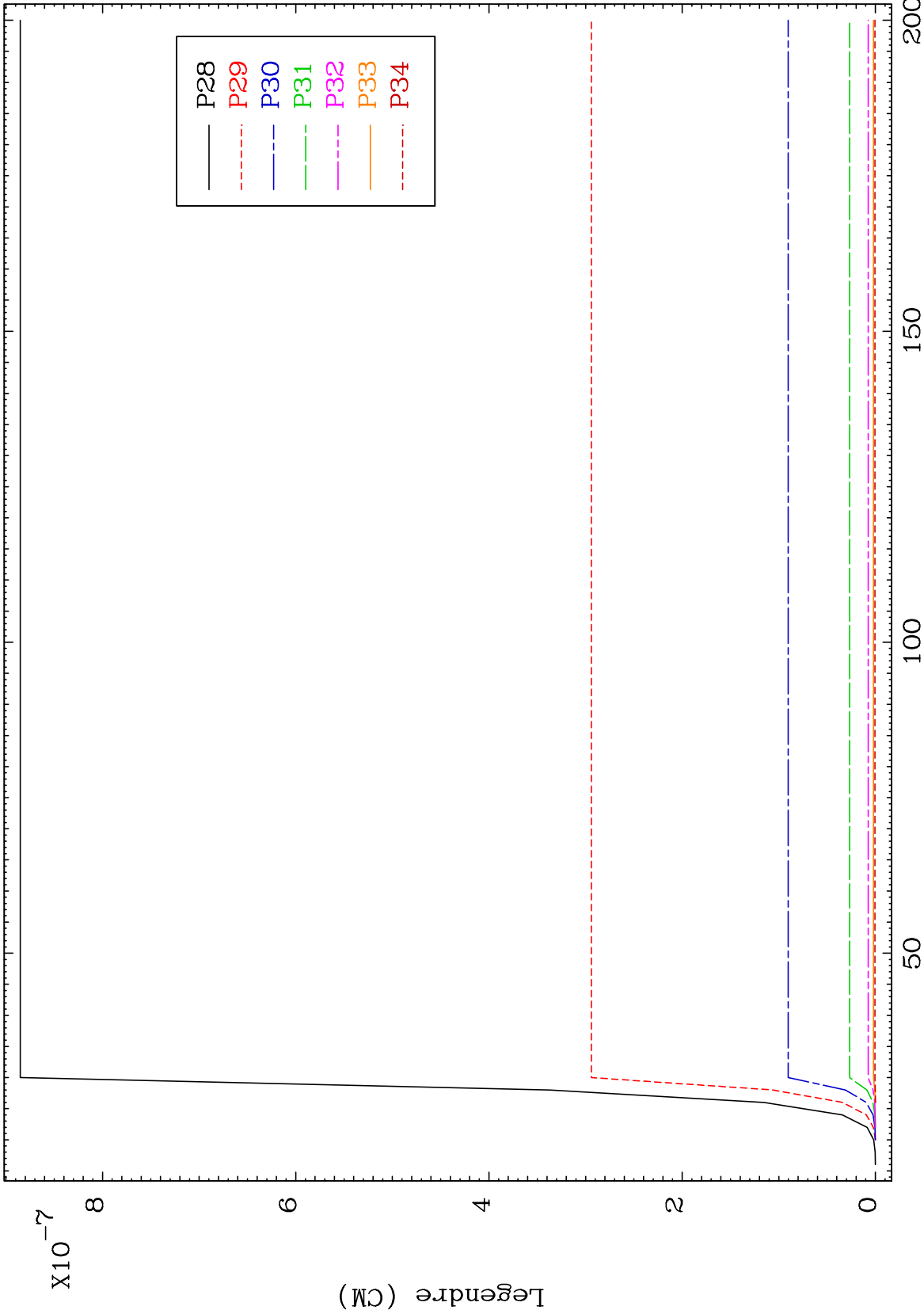
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



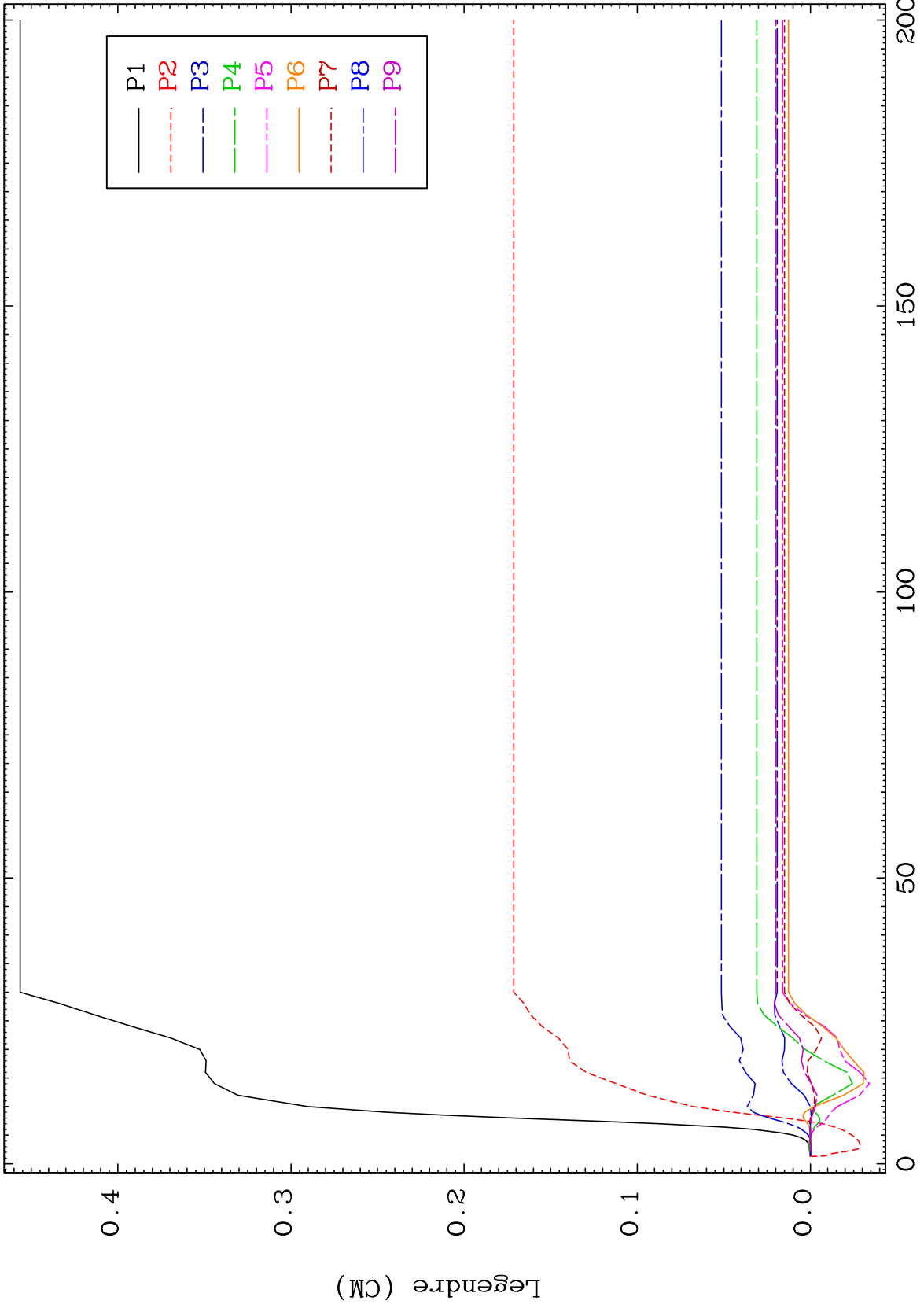
31

41-Nb-97

MAT 4137

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

41-Nb-97



32

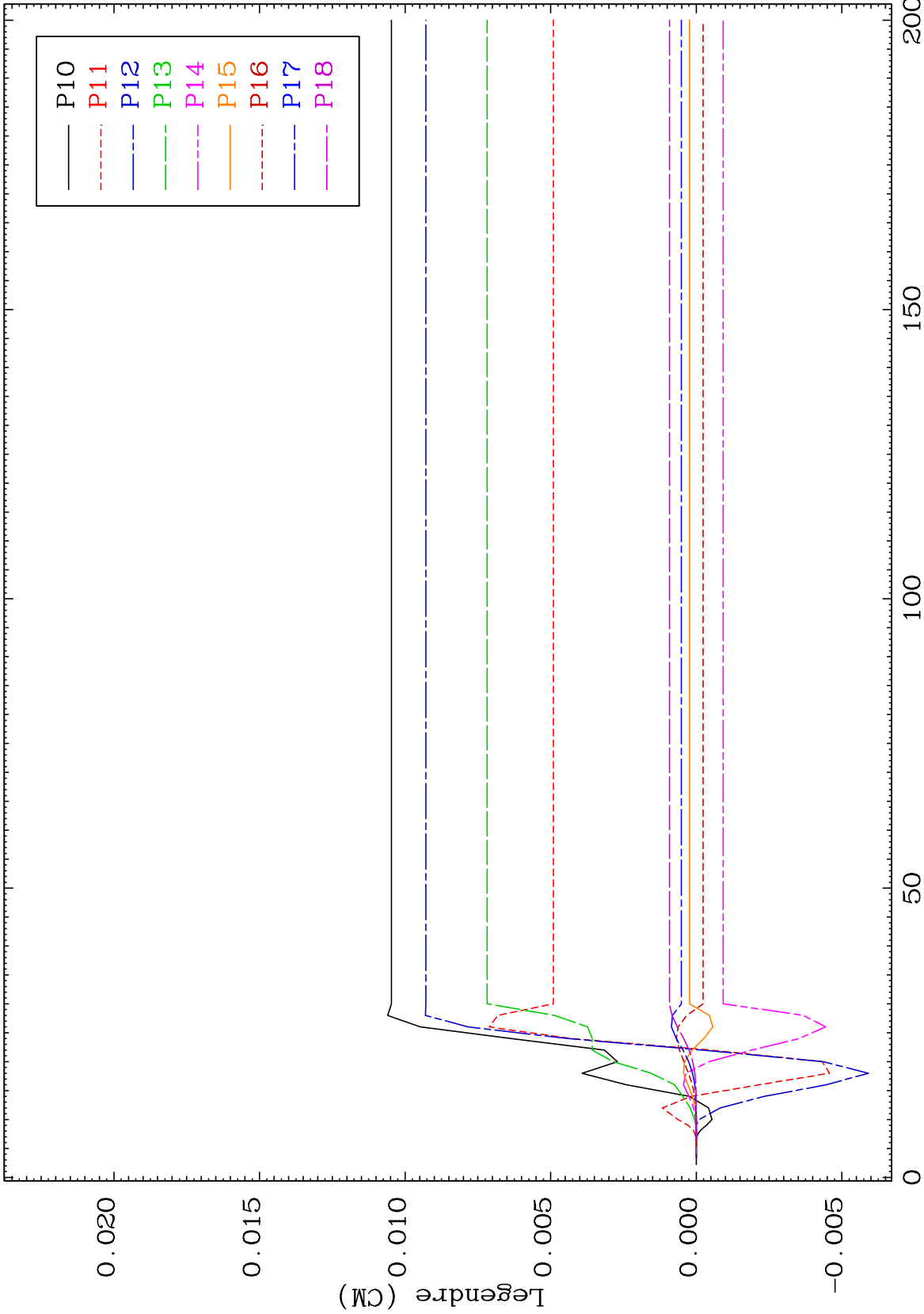
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



33

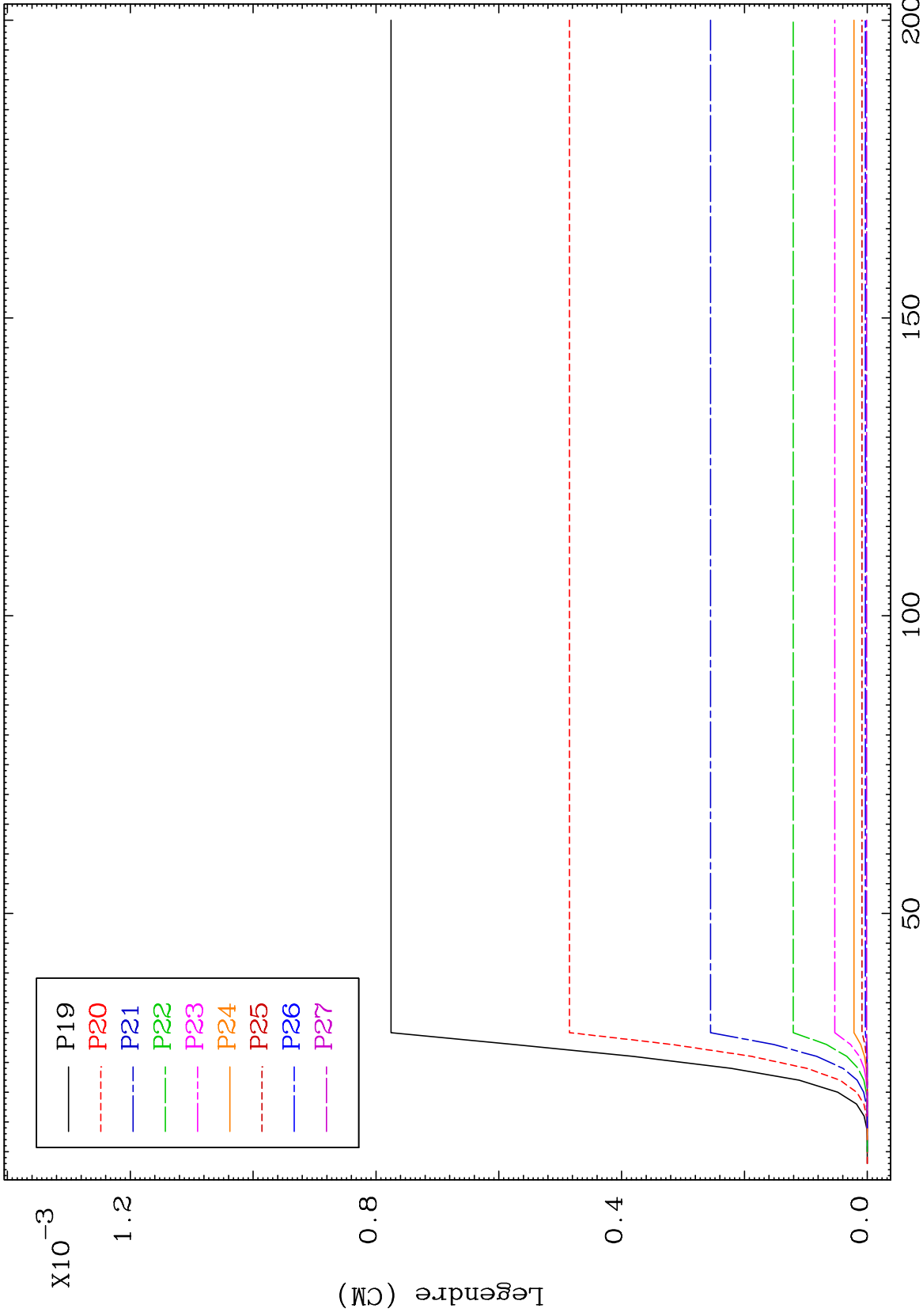
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



34

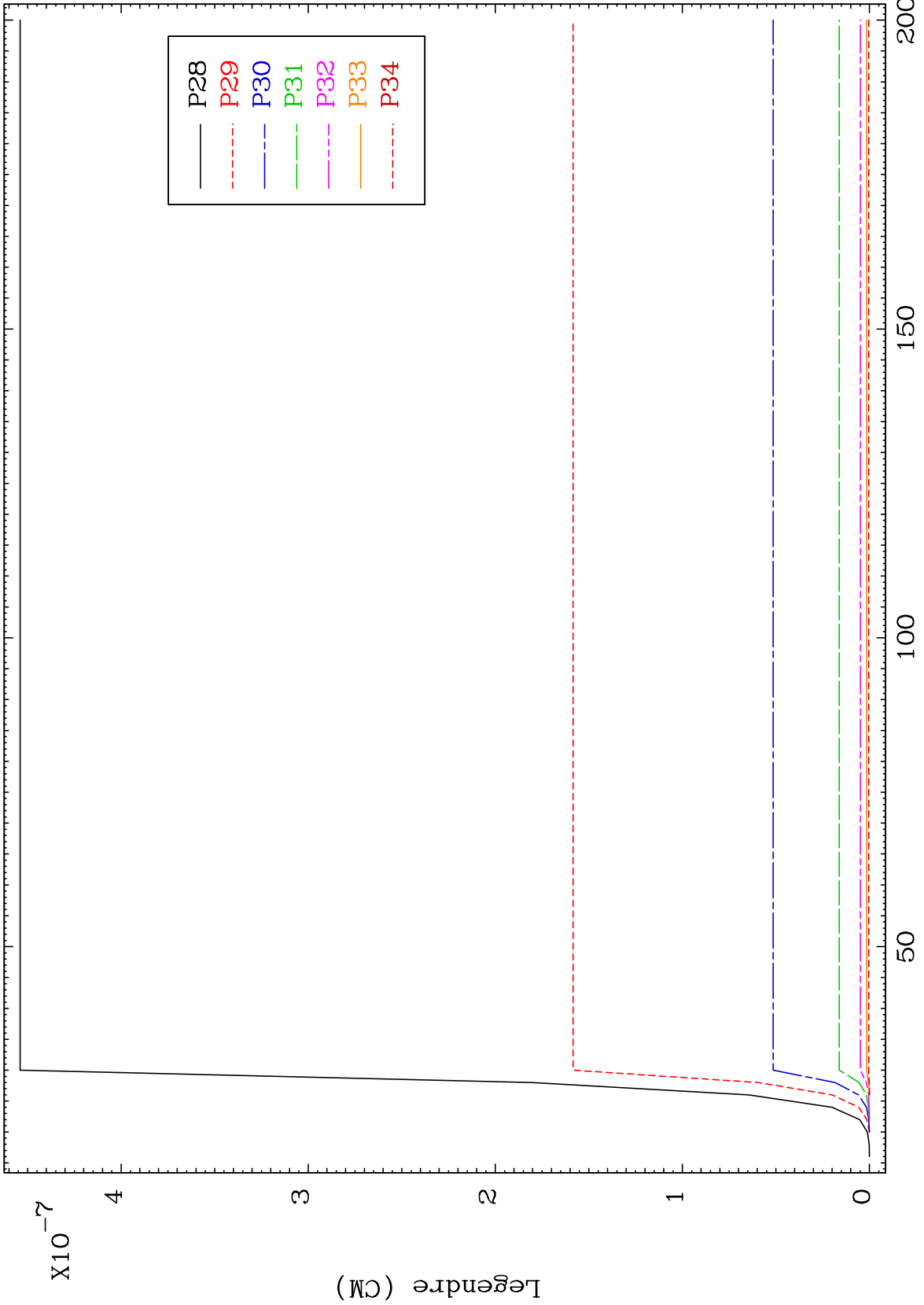
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



35

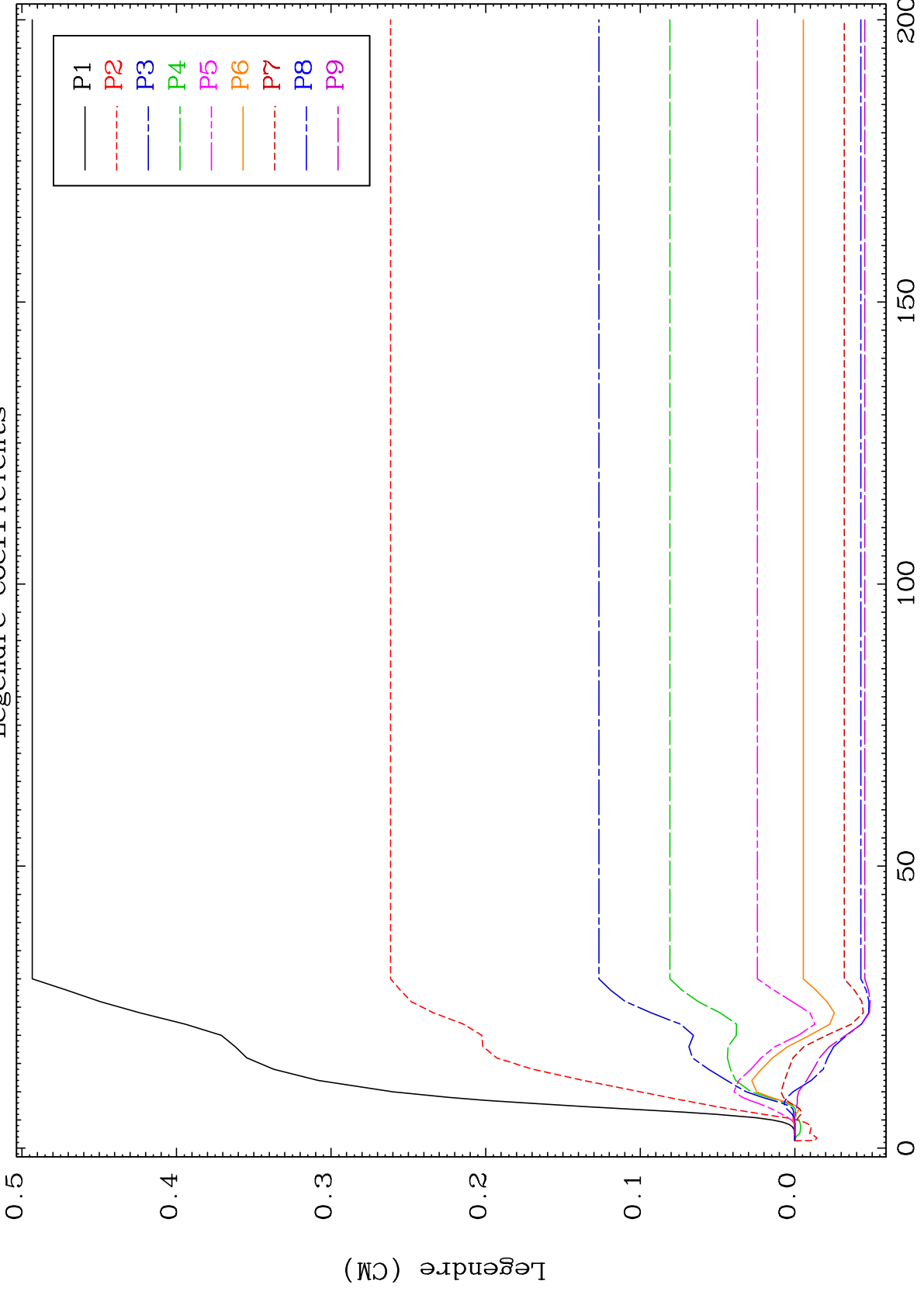
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



36

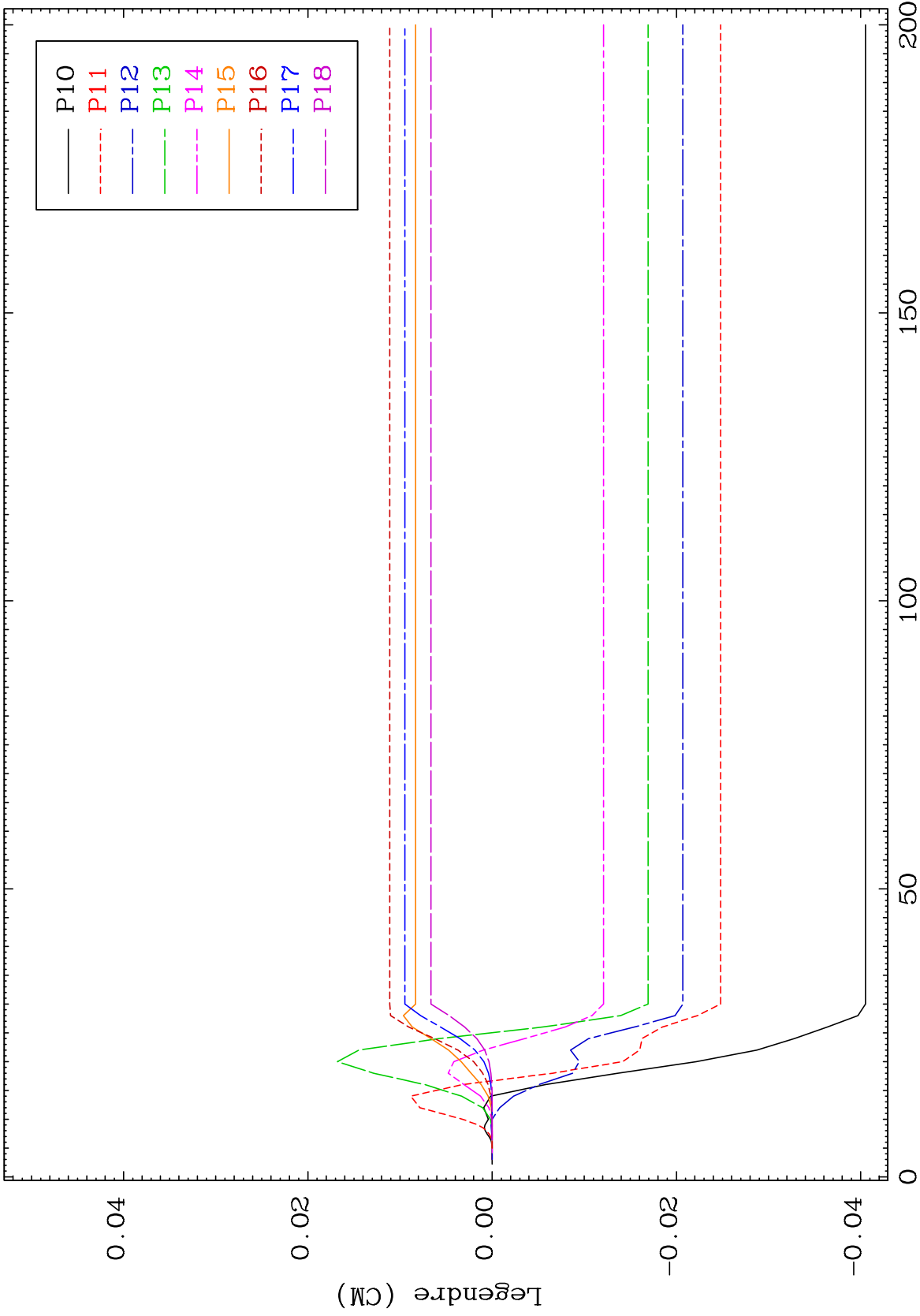
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



37

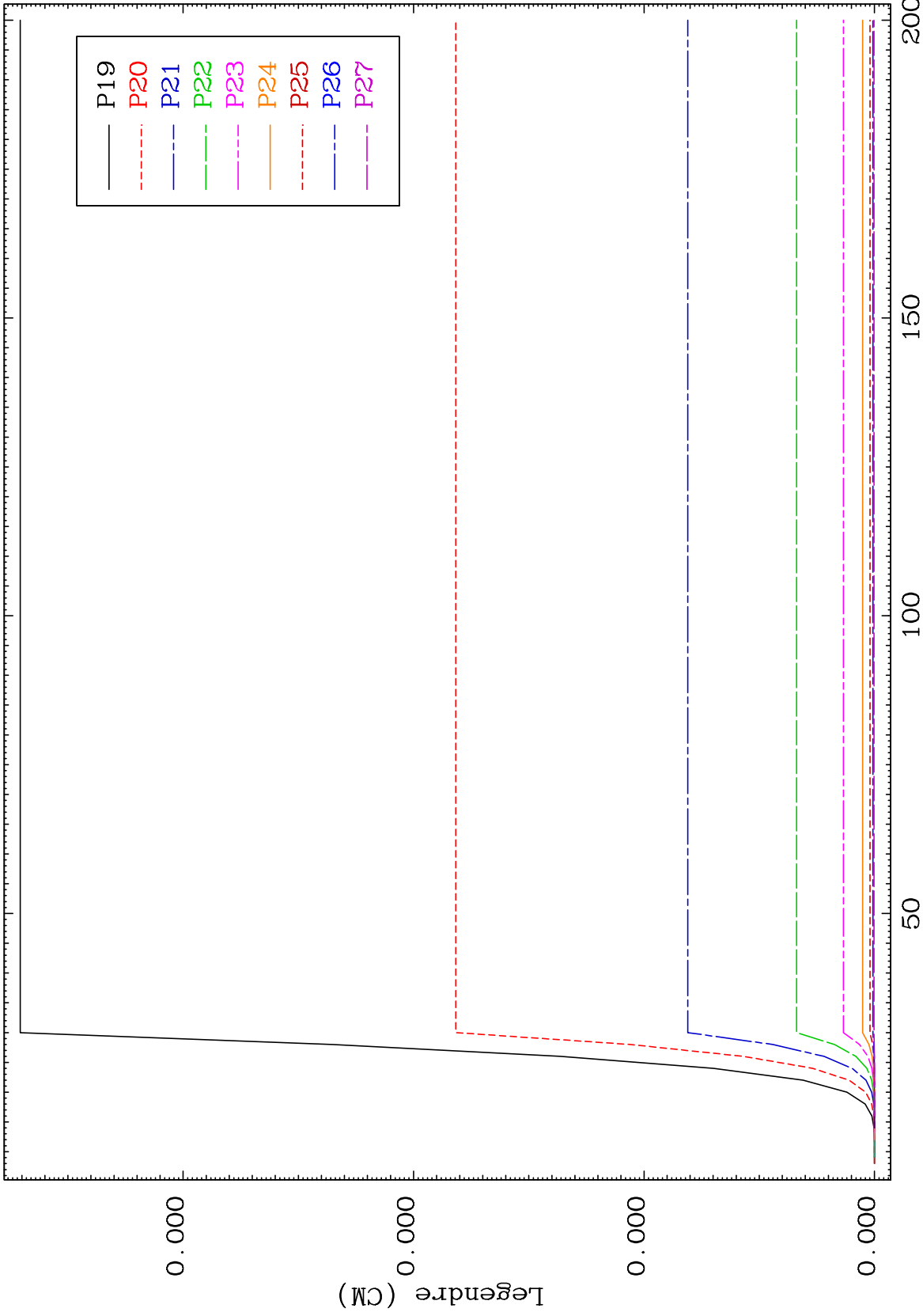
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



38

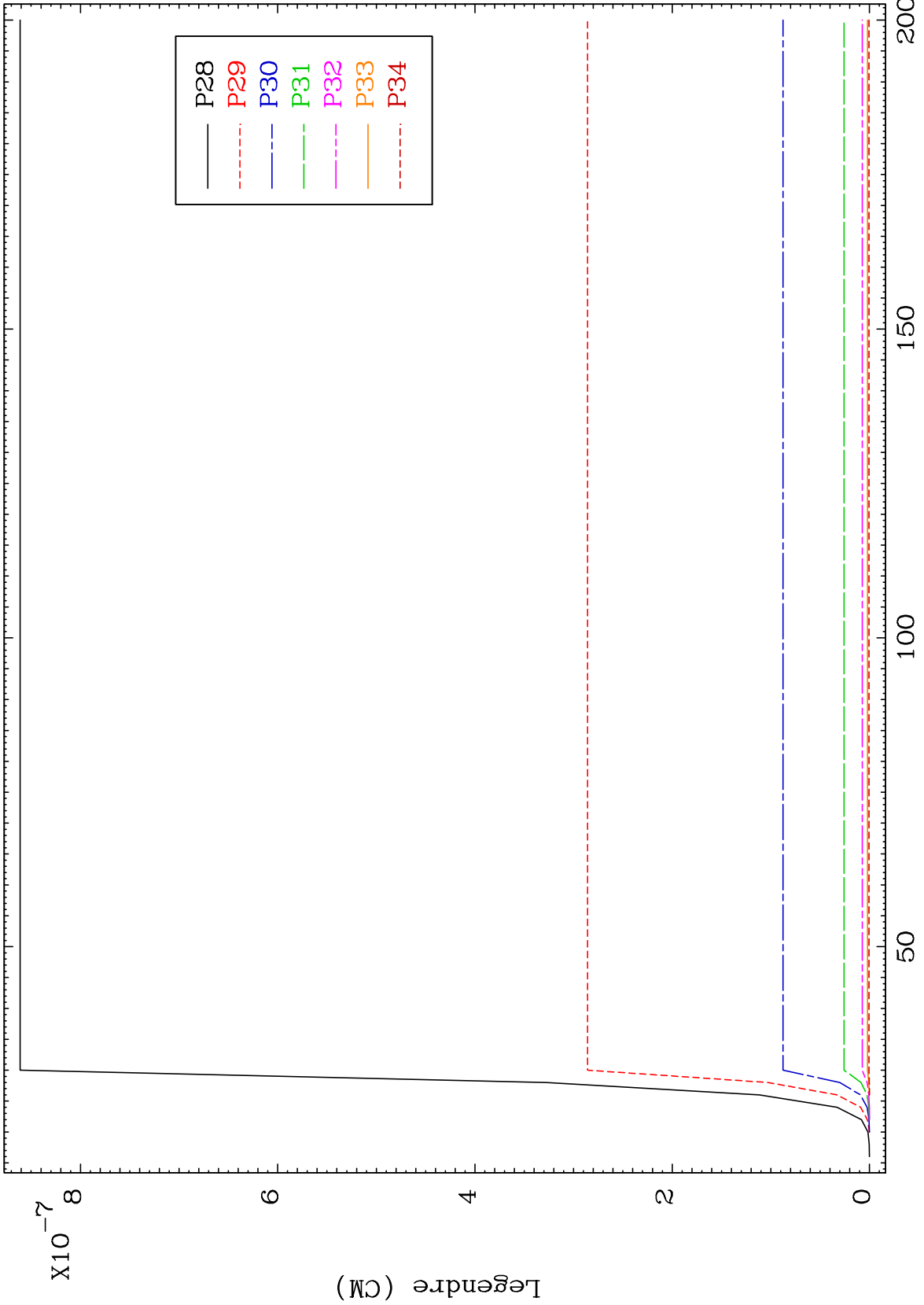
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



39

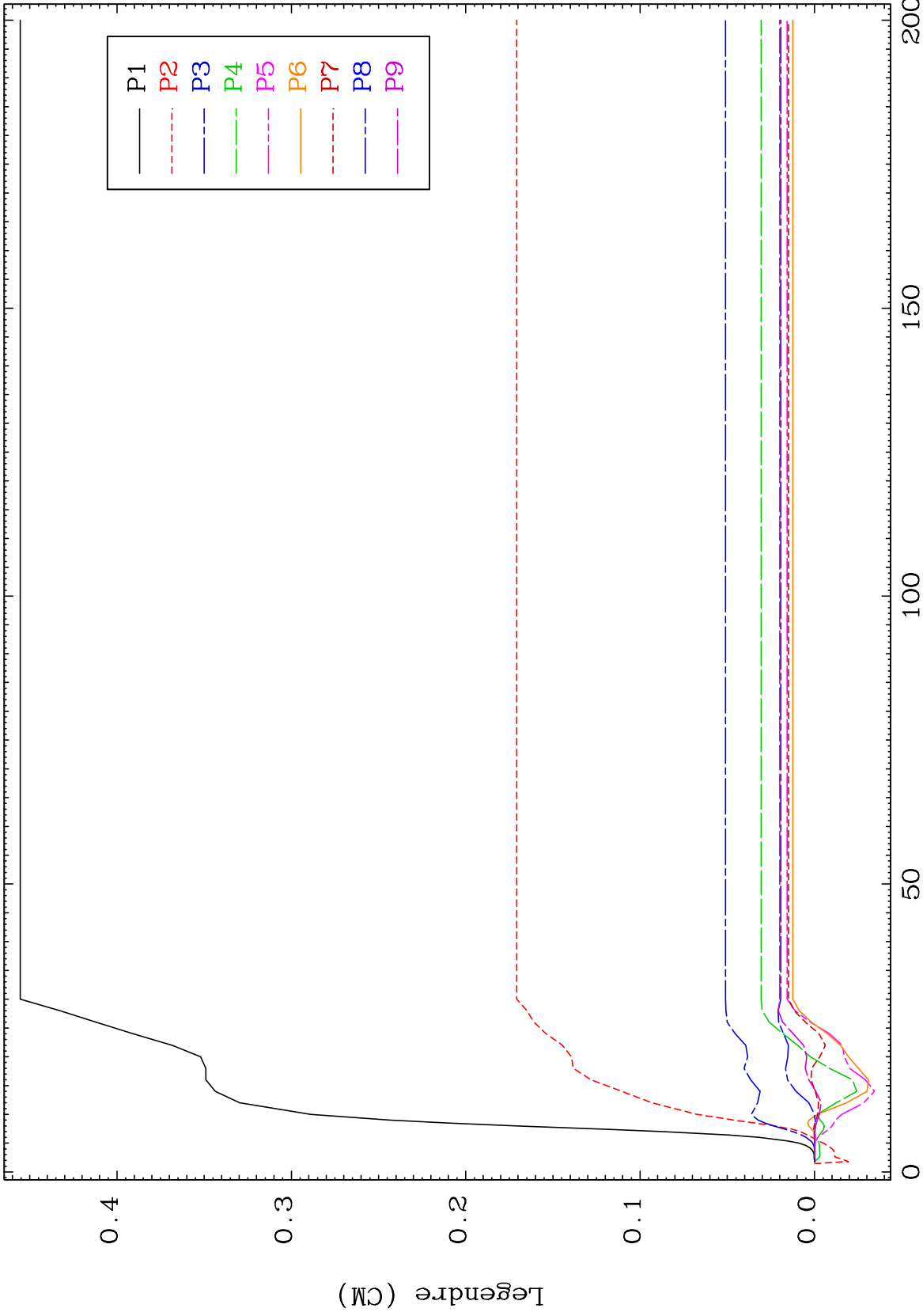
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



40

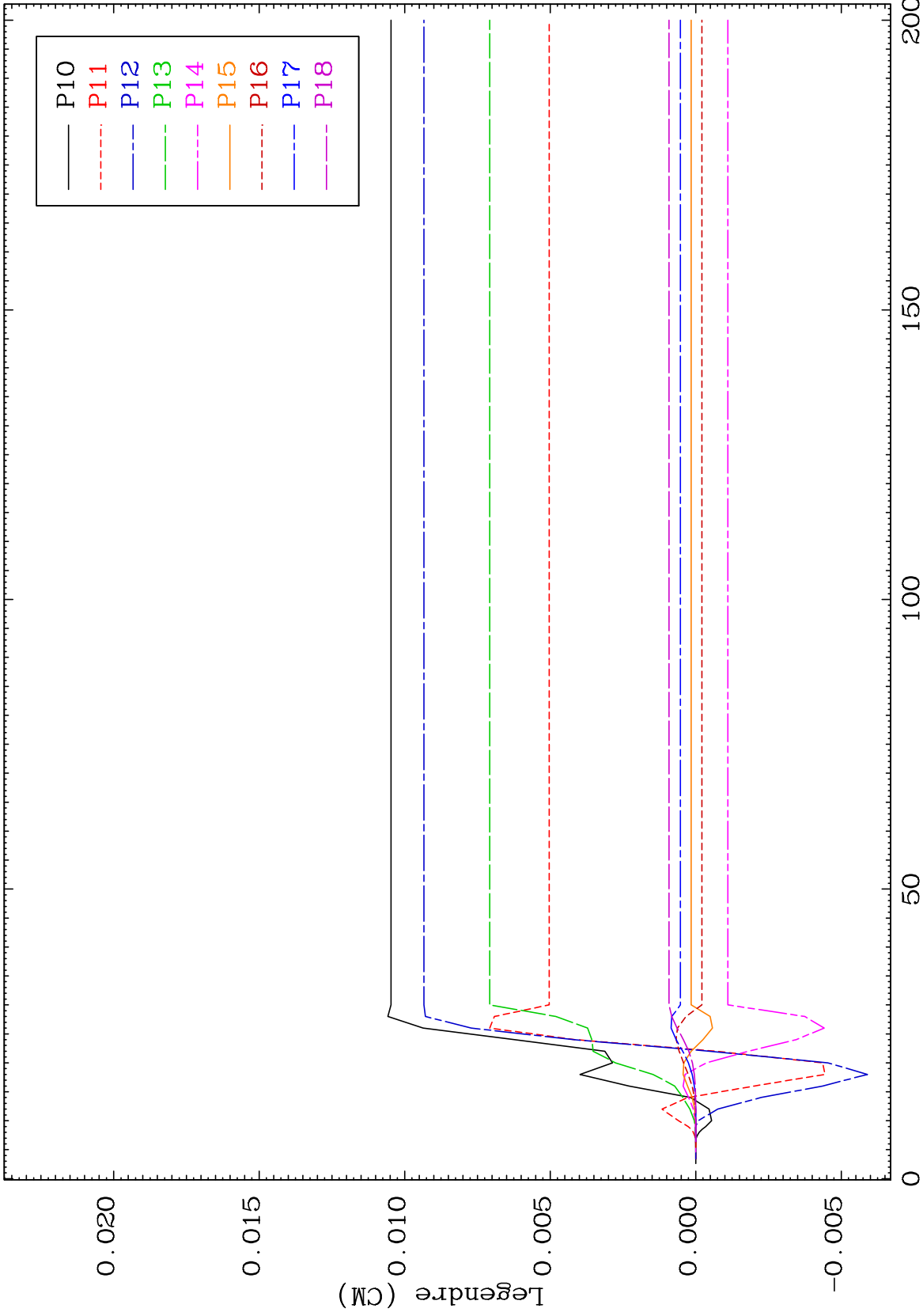
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



41

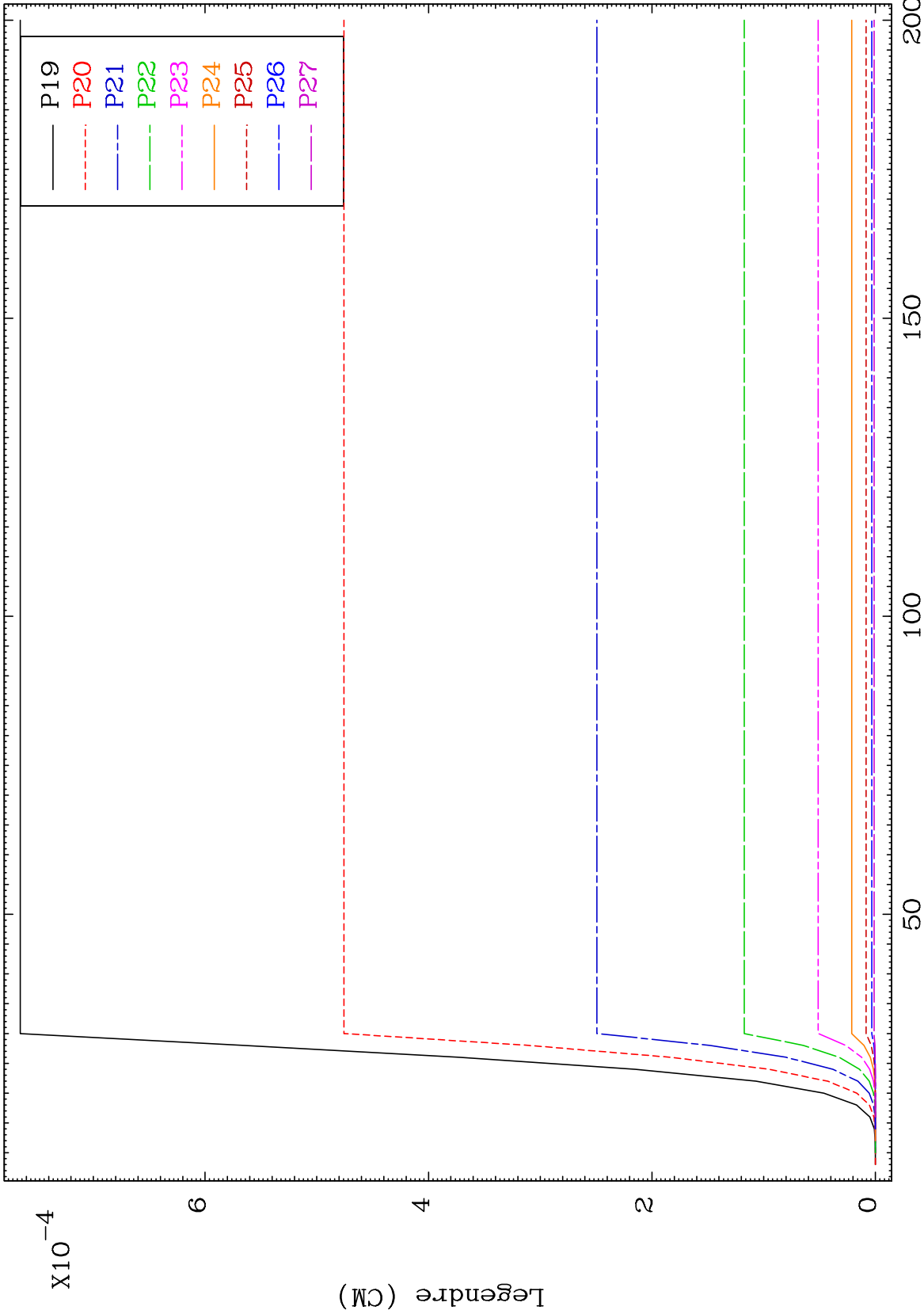
Incident Energy (MeV)

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MAT 4137

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

41-Nb-97



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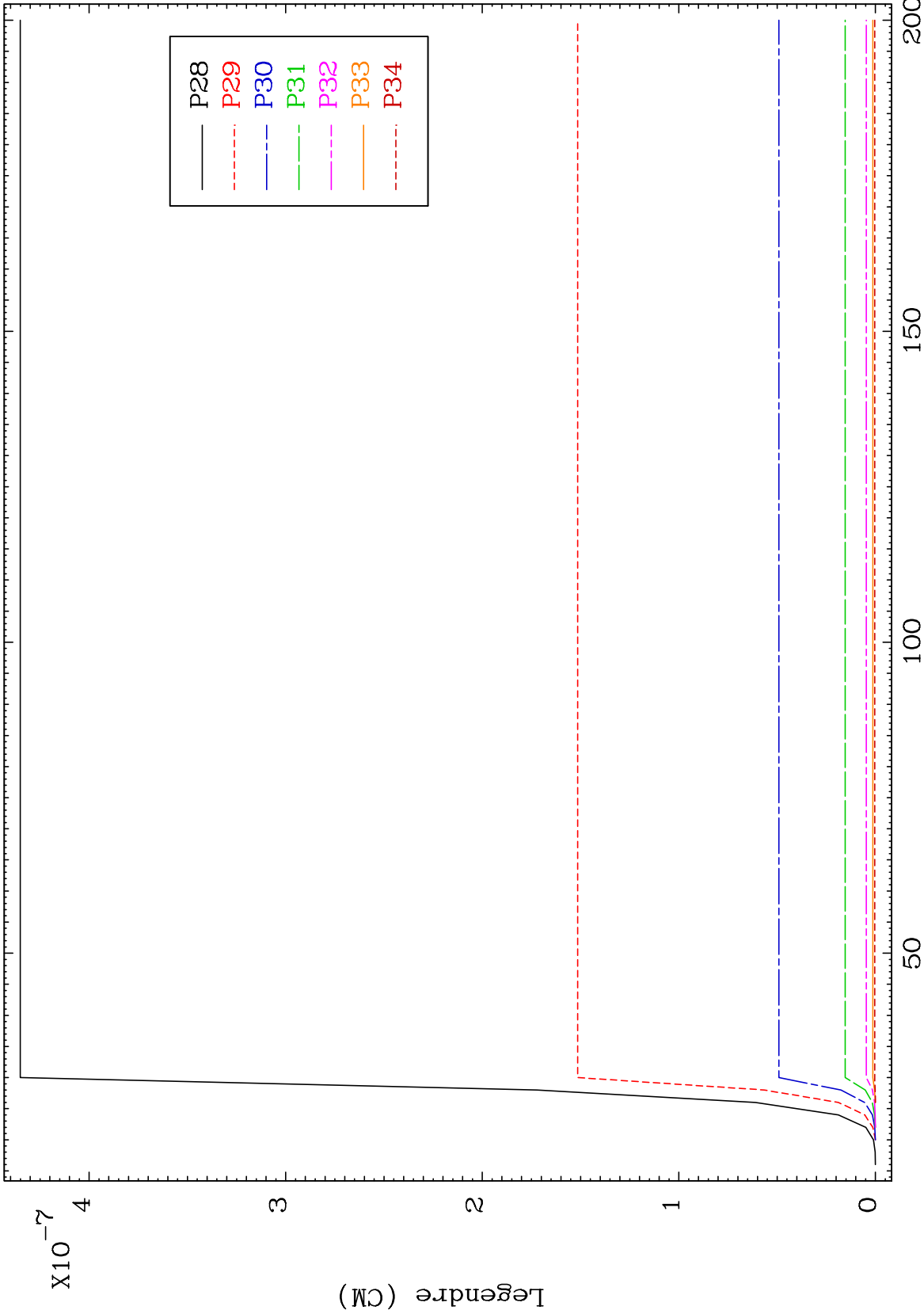
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



43

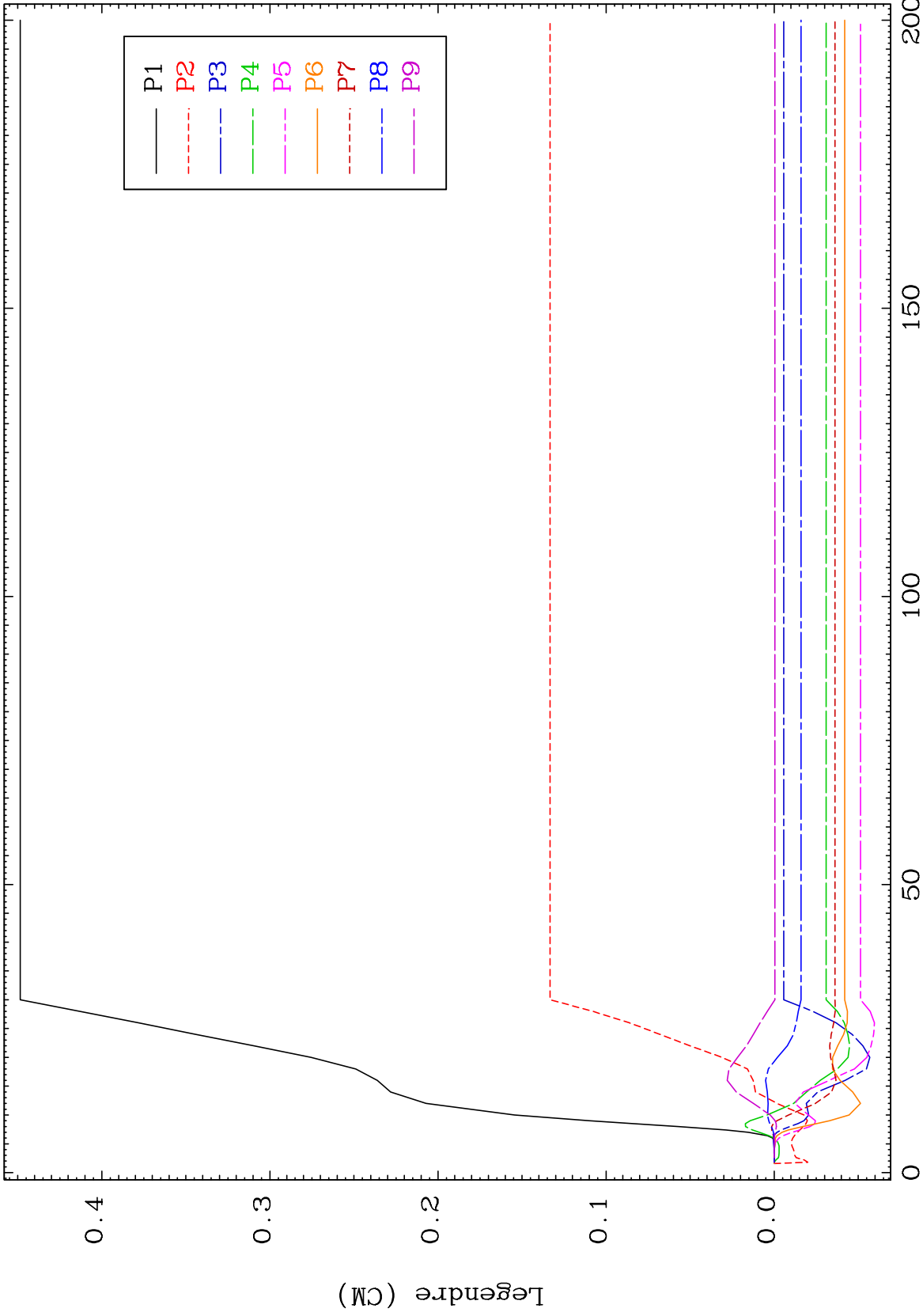
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



44

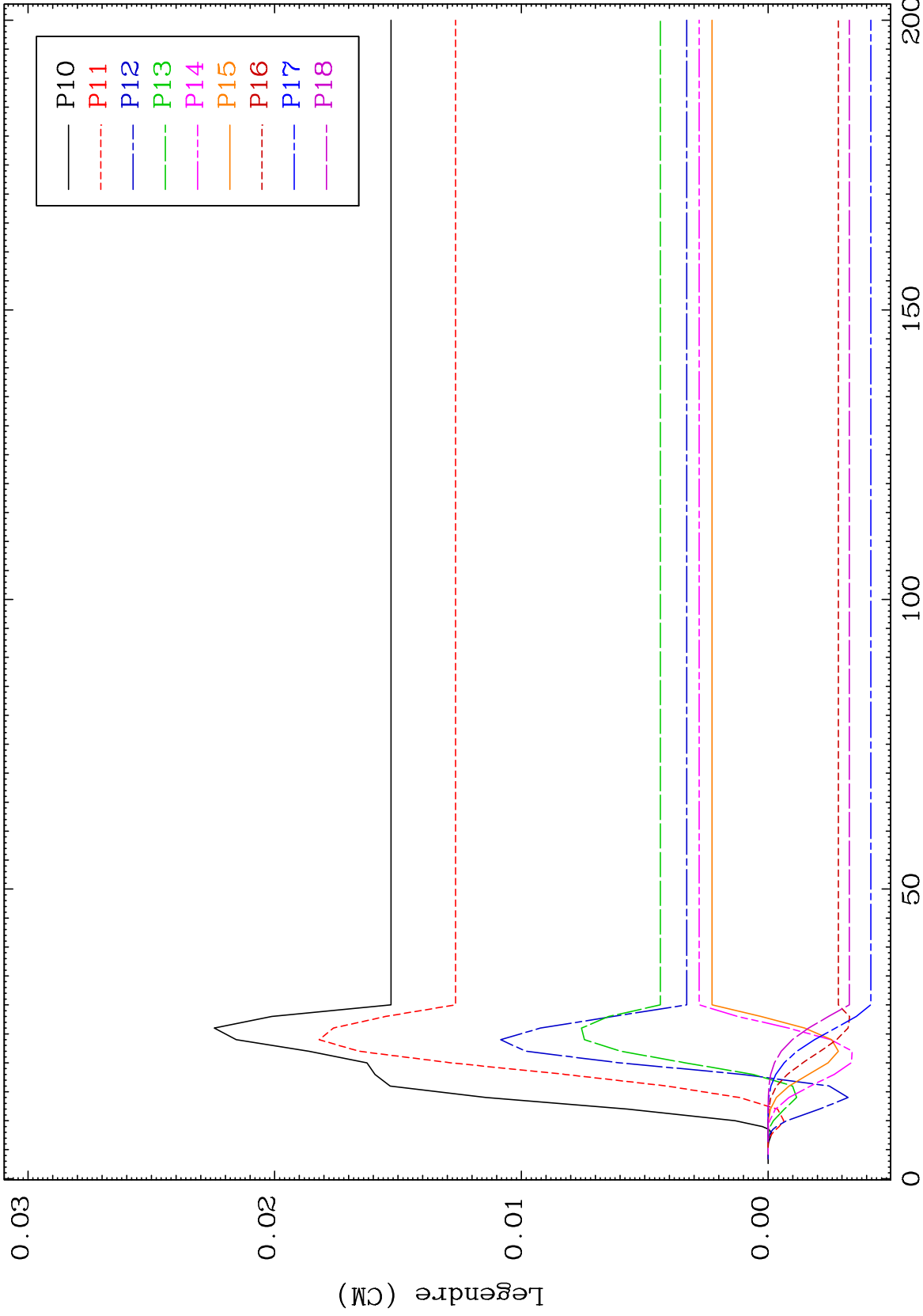
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



45

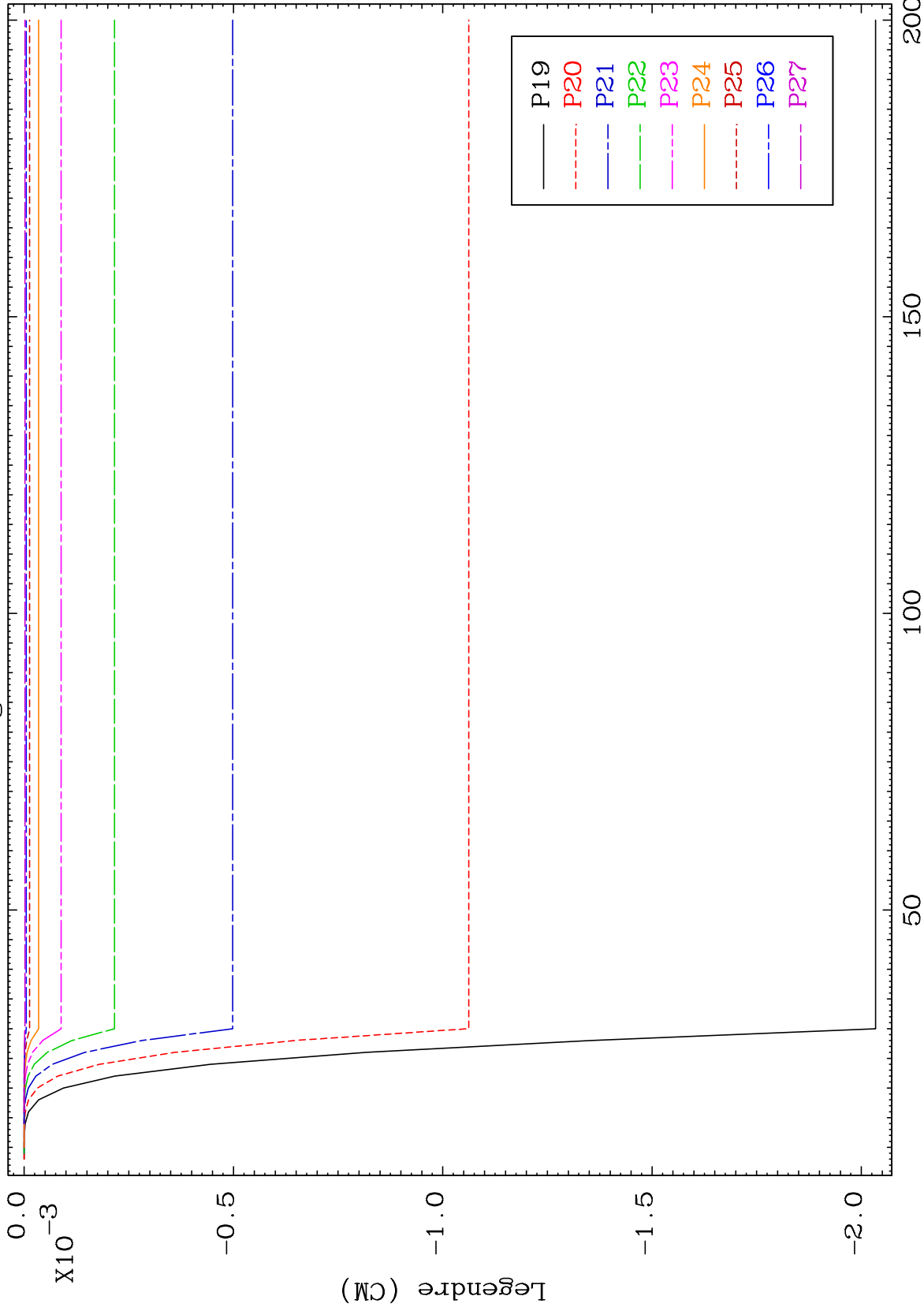
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



46

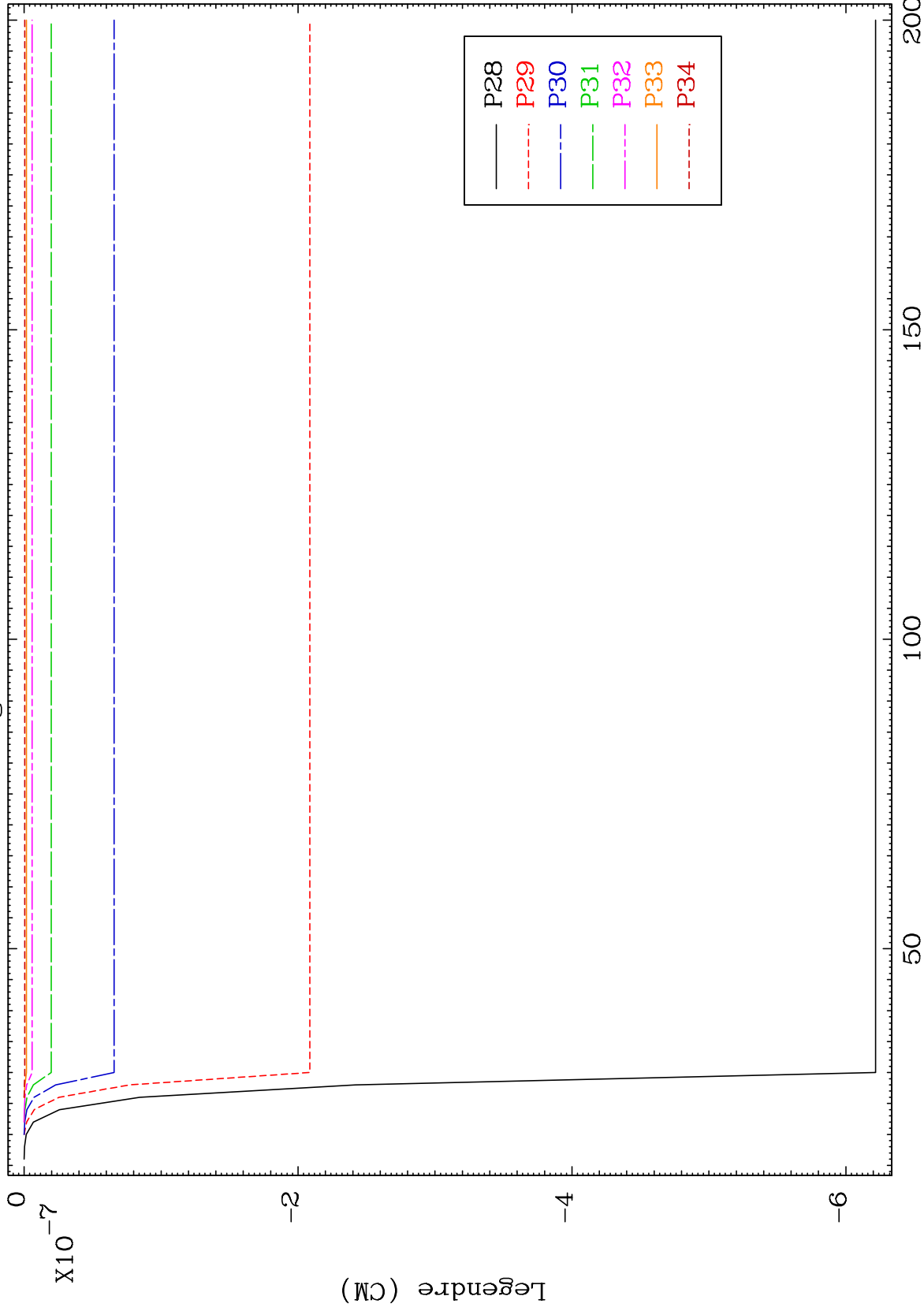
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



41-Nb-97

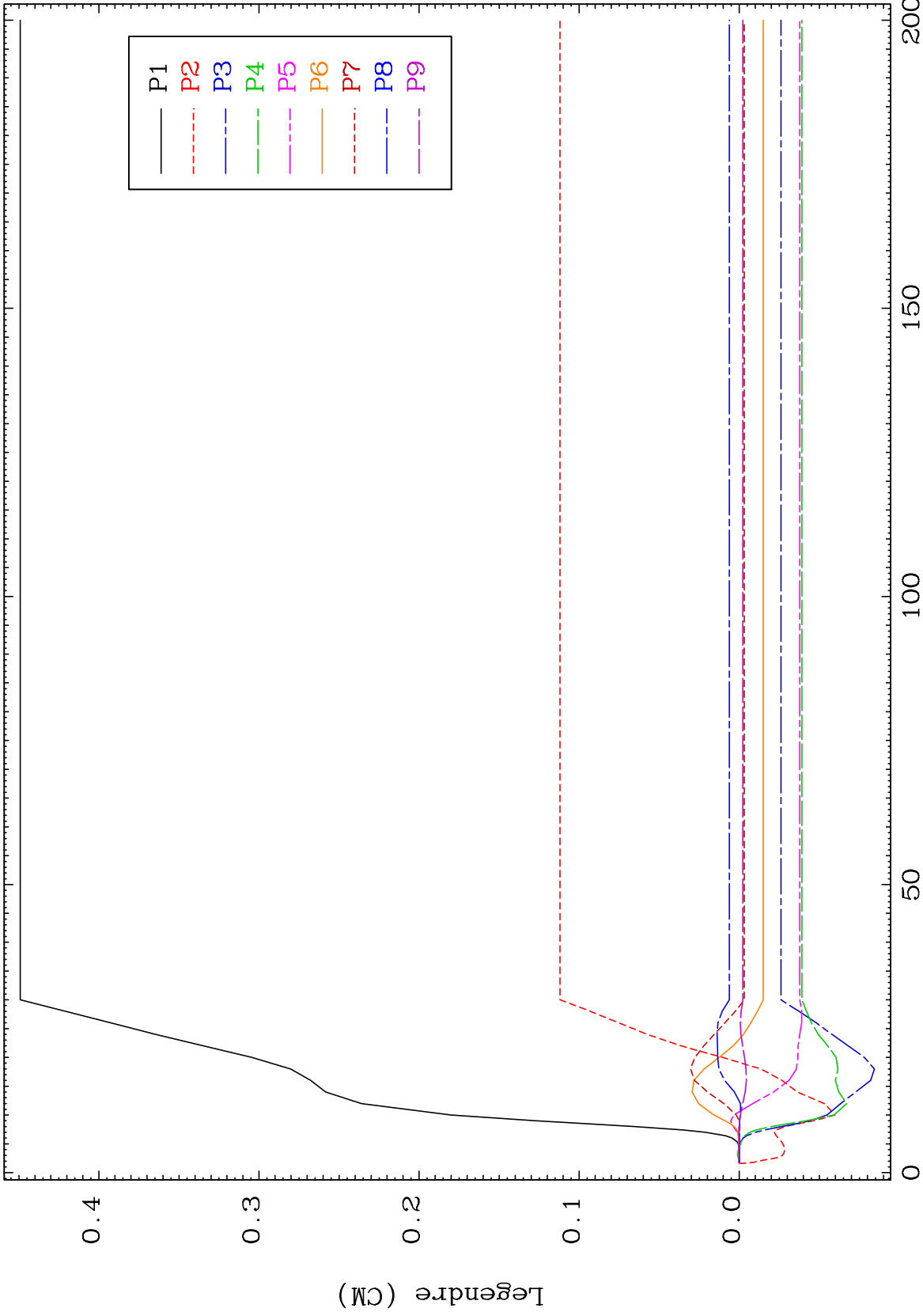
Incident Energy (MeV)

47

MAT 4137

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

41-Nb-97



48

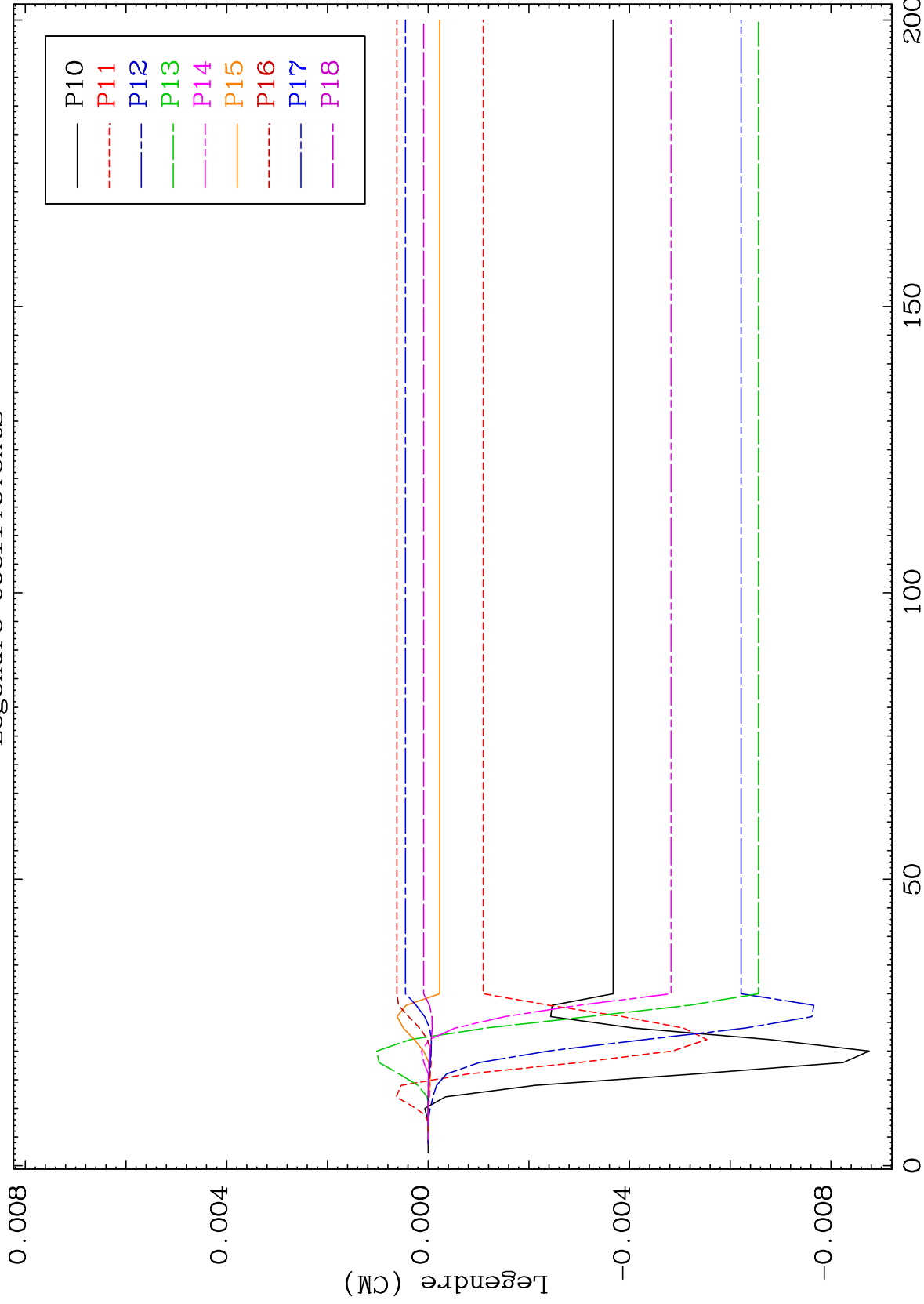
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



49

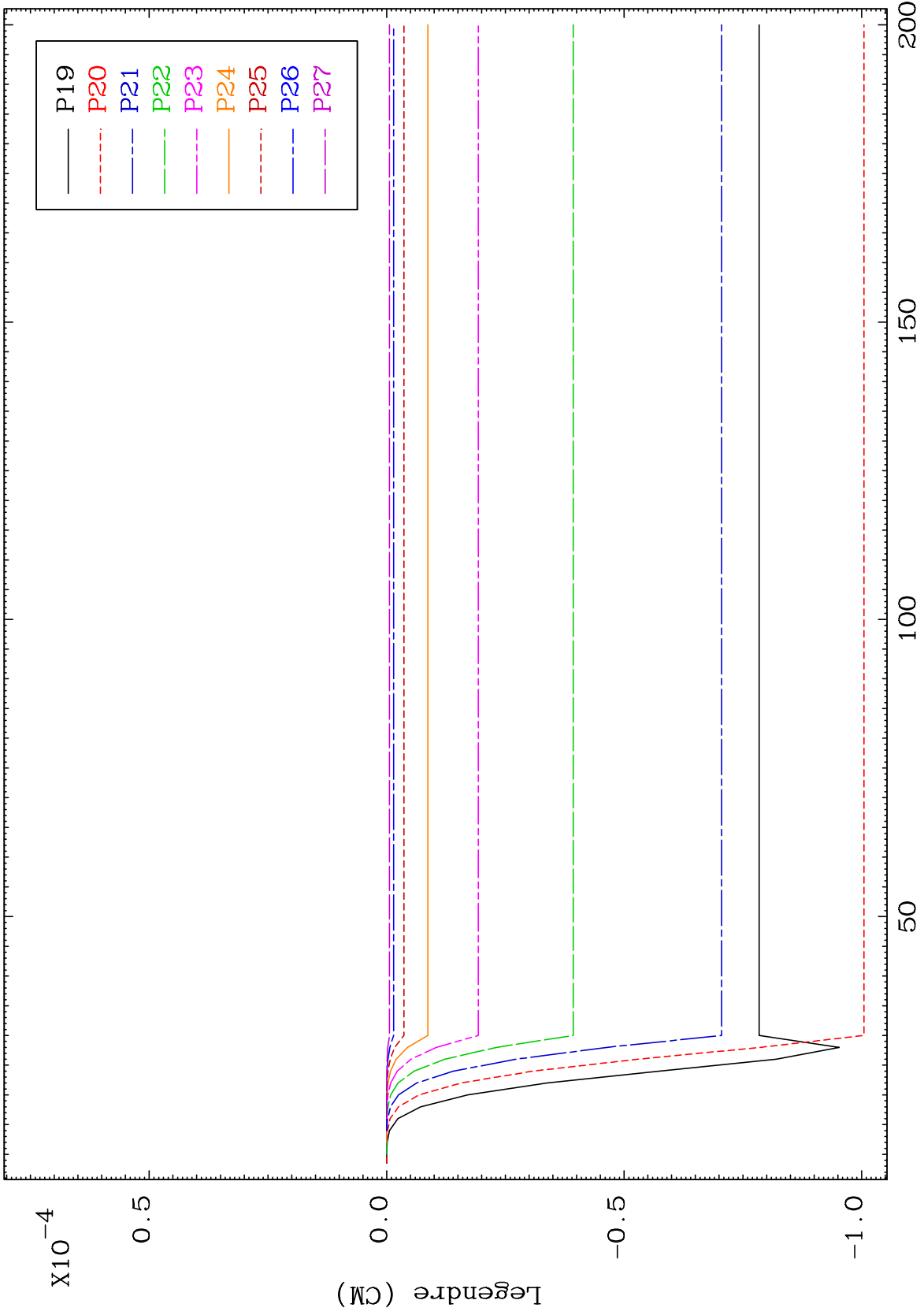
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

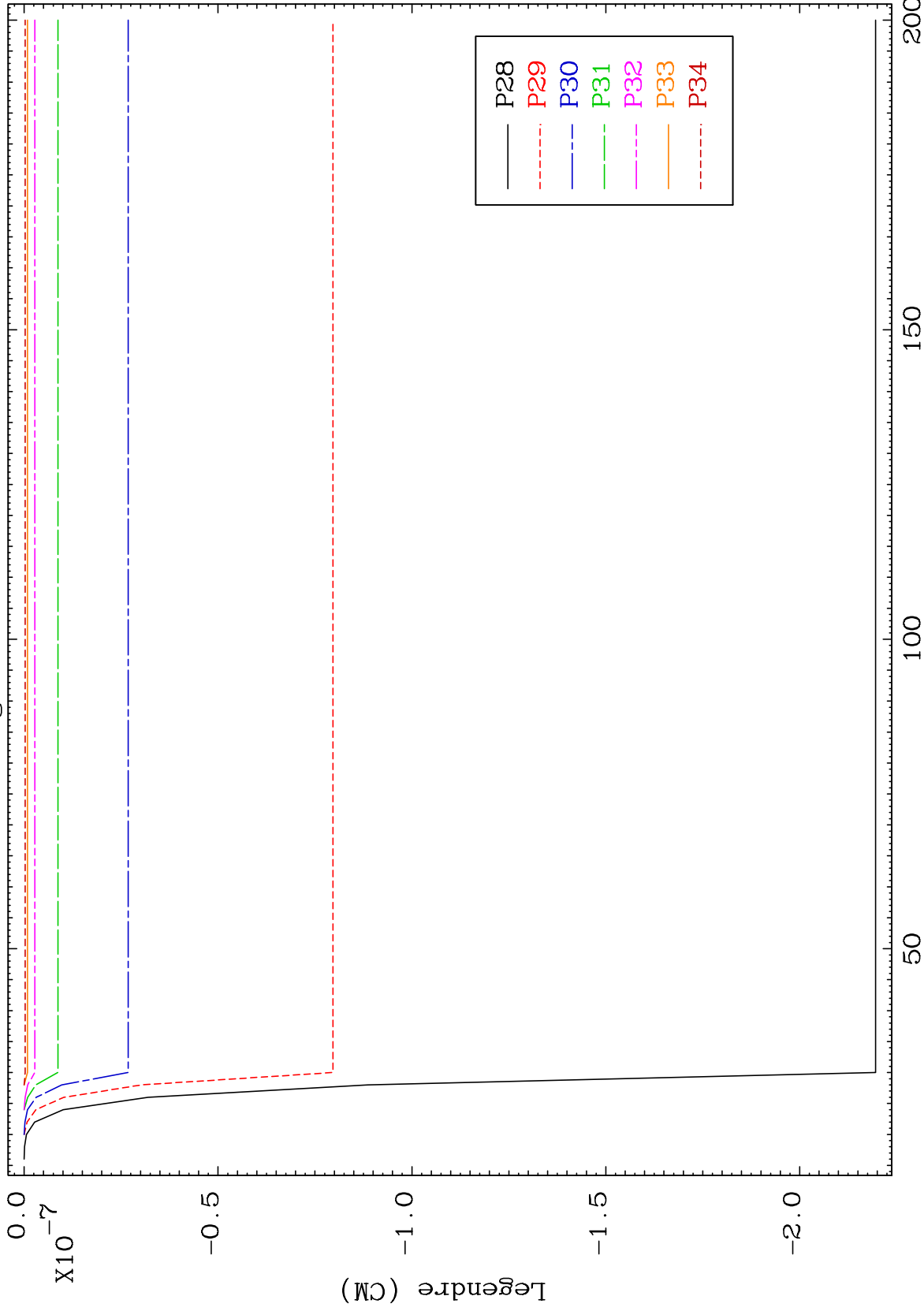
41-Nb-97



50

Incident Energy (MeV)

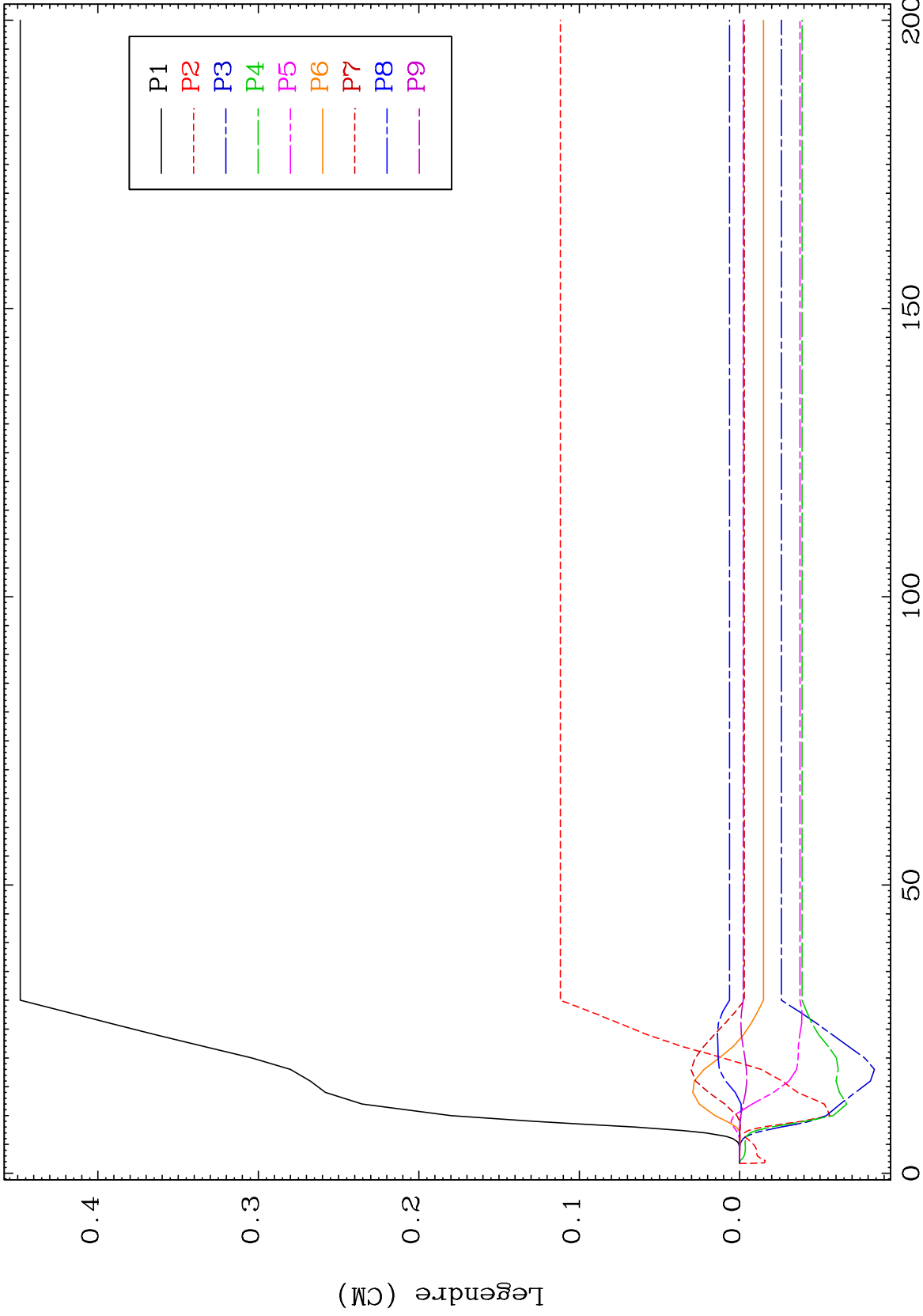
41-Nb-97



MAT 4137

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

41-Nb-97



52

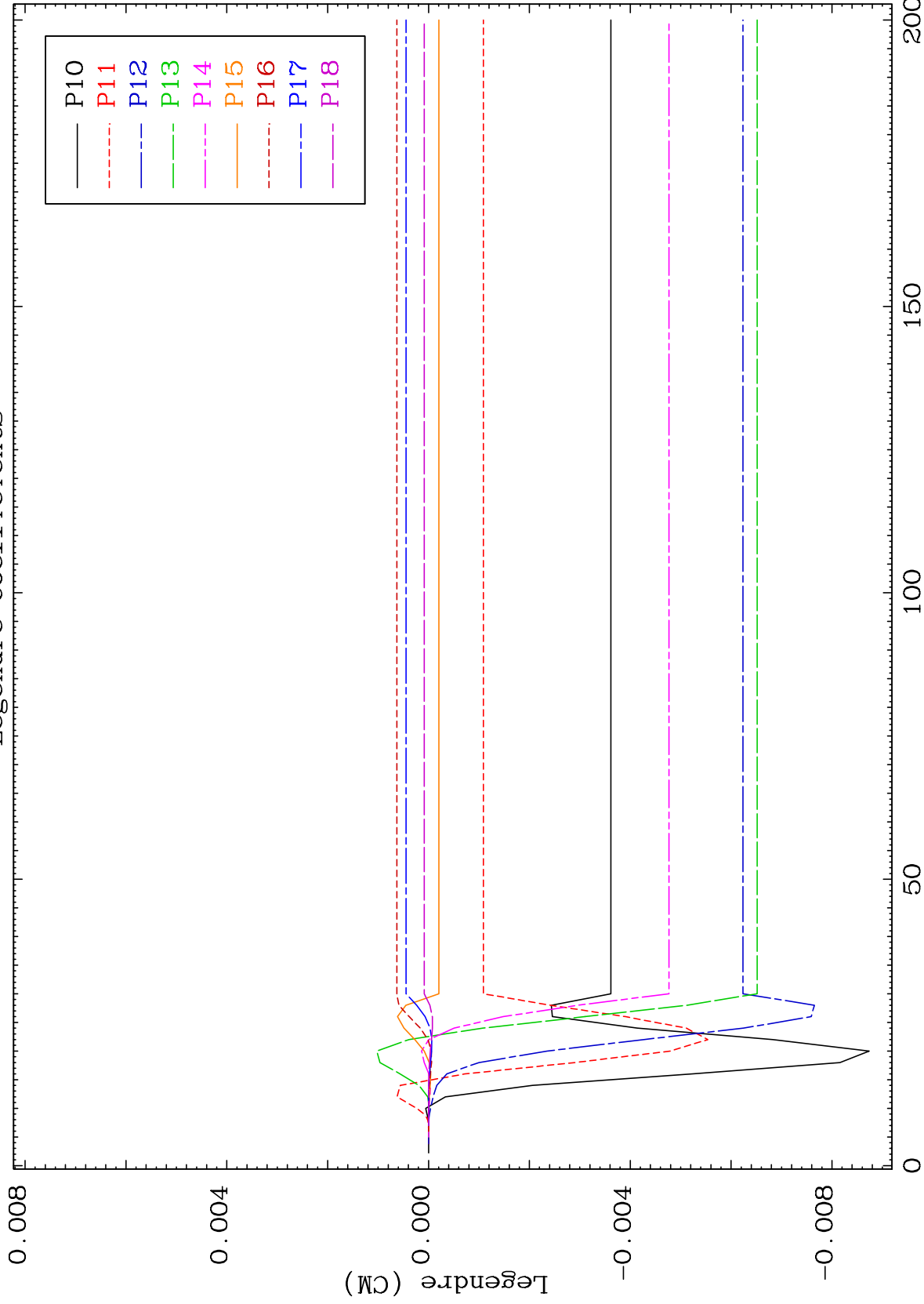
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



53

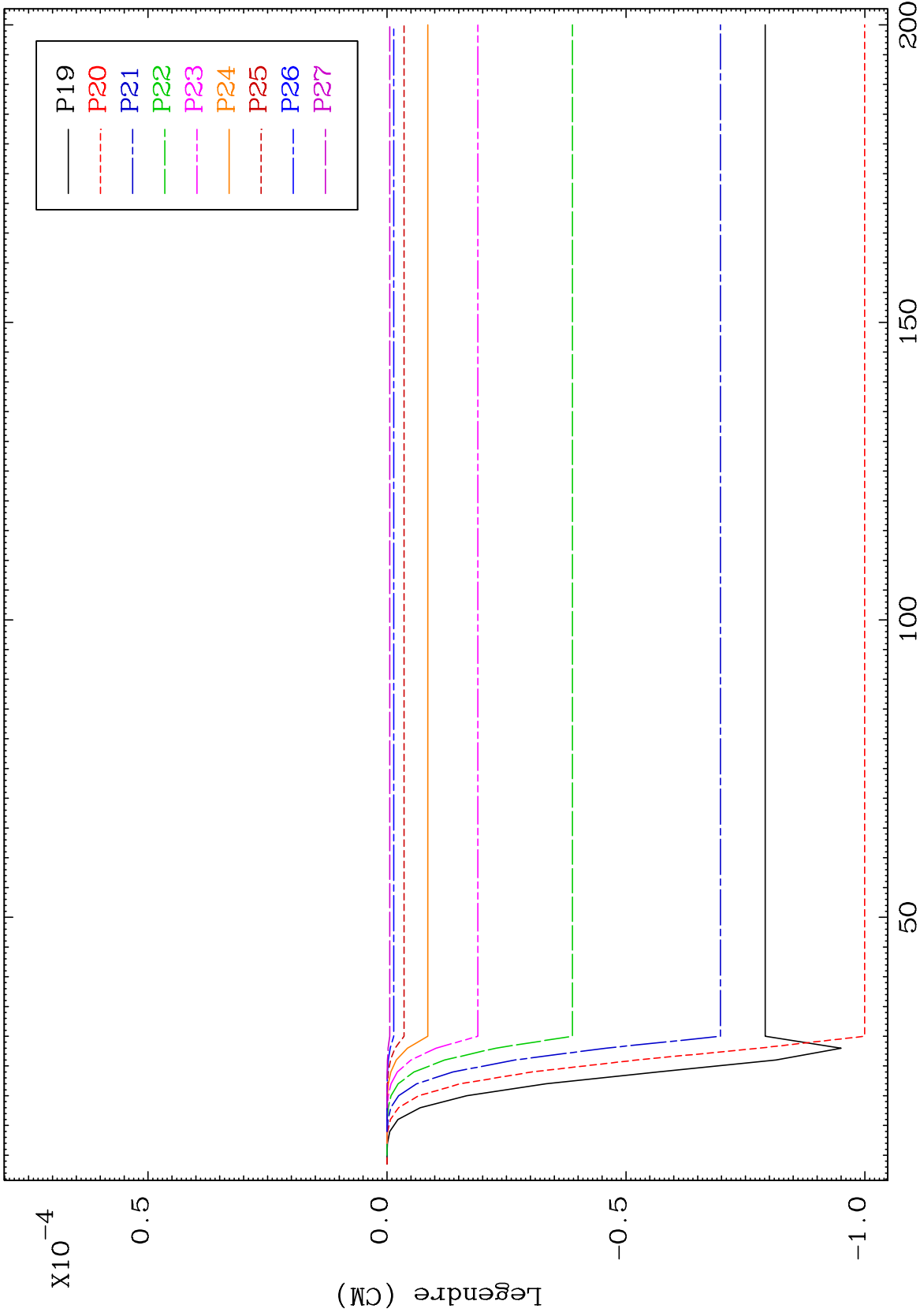
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



54

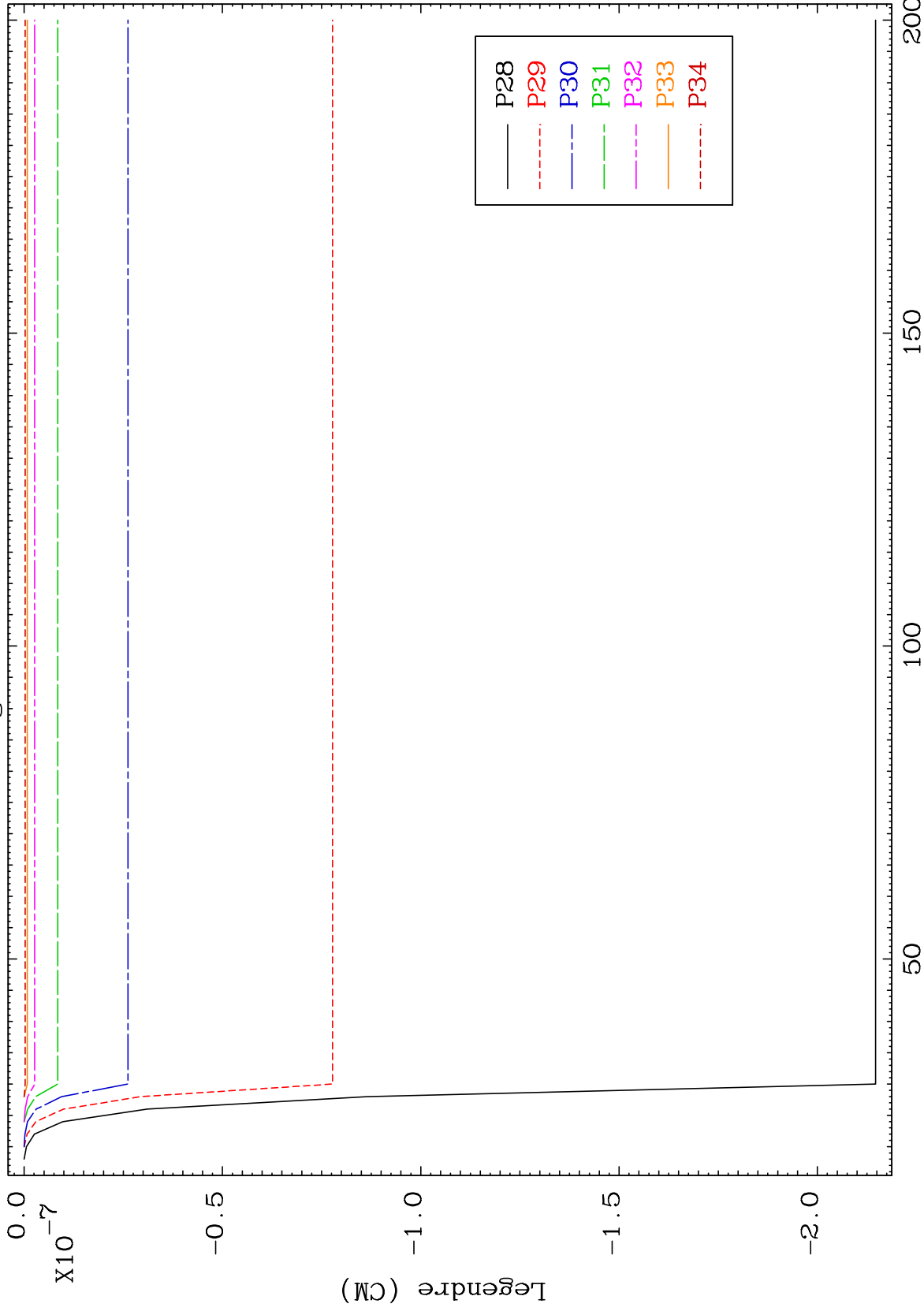
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



55

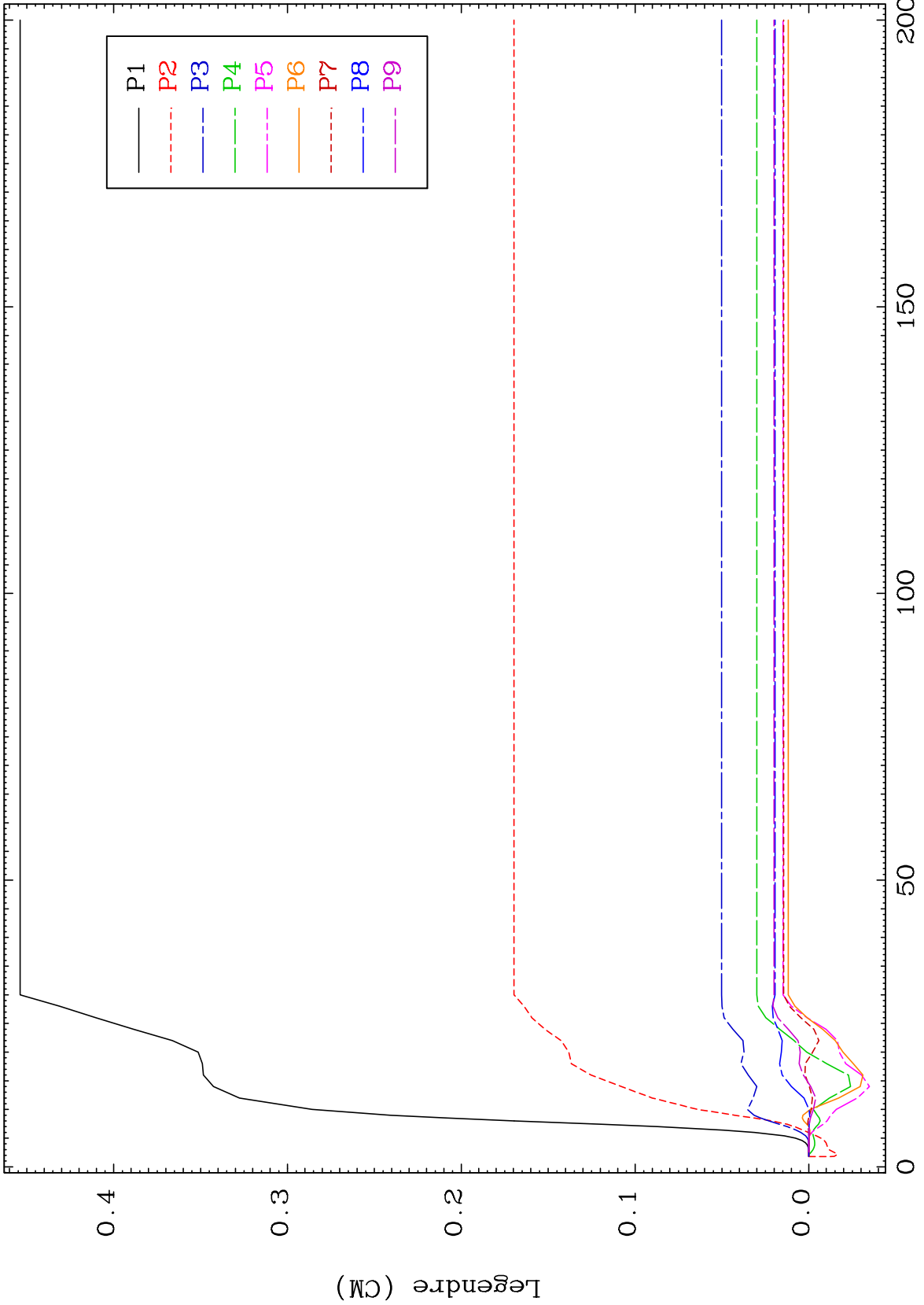
41-Nb-97

200

MAT 4137

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

41-Nb-97



56

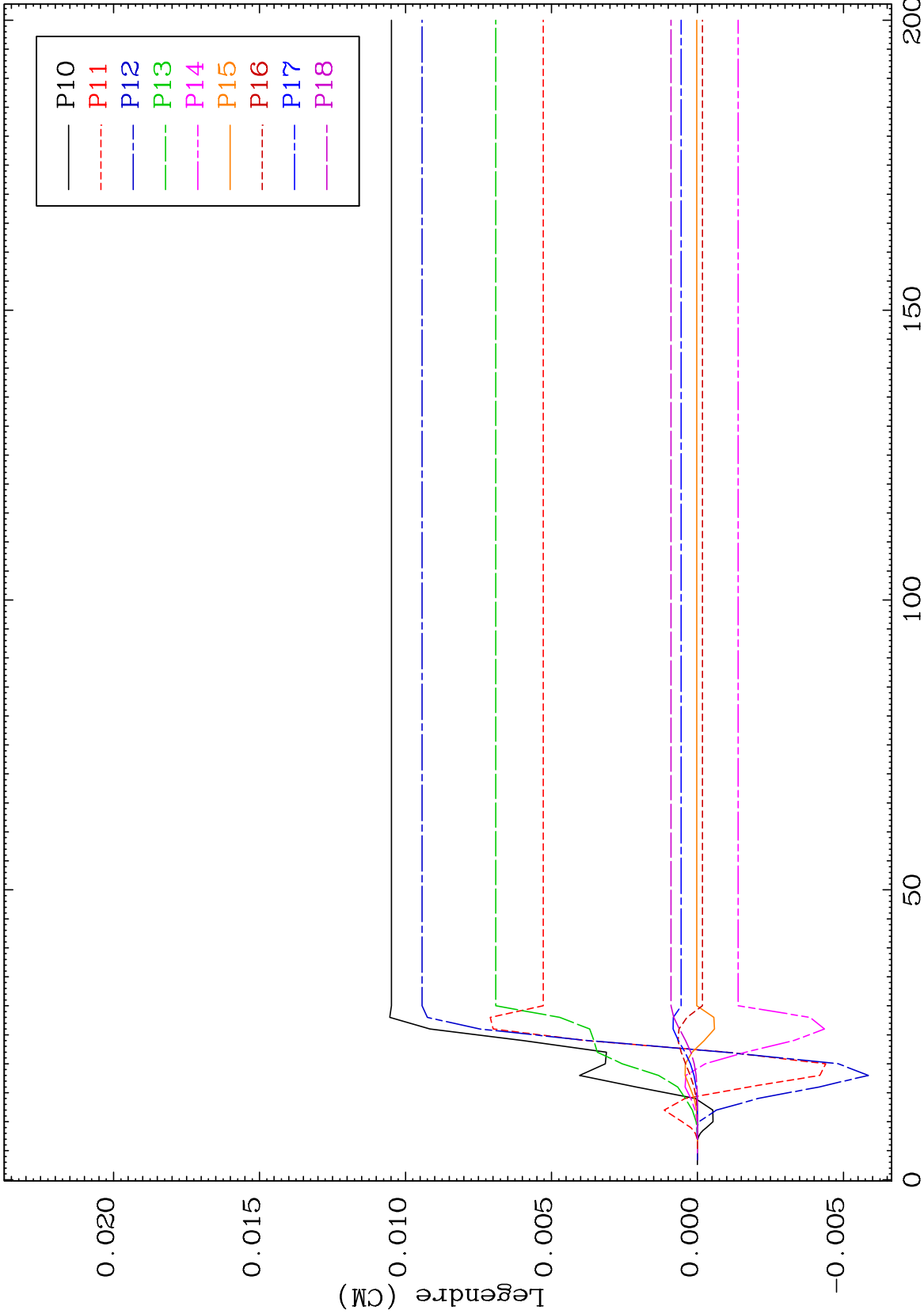
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



57

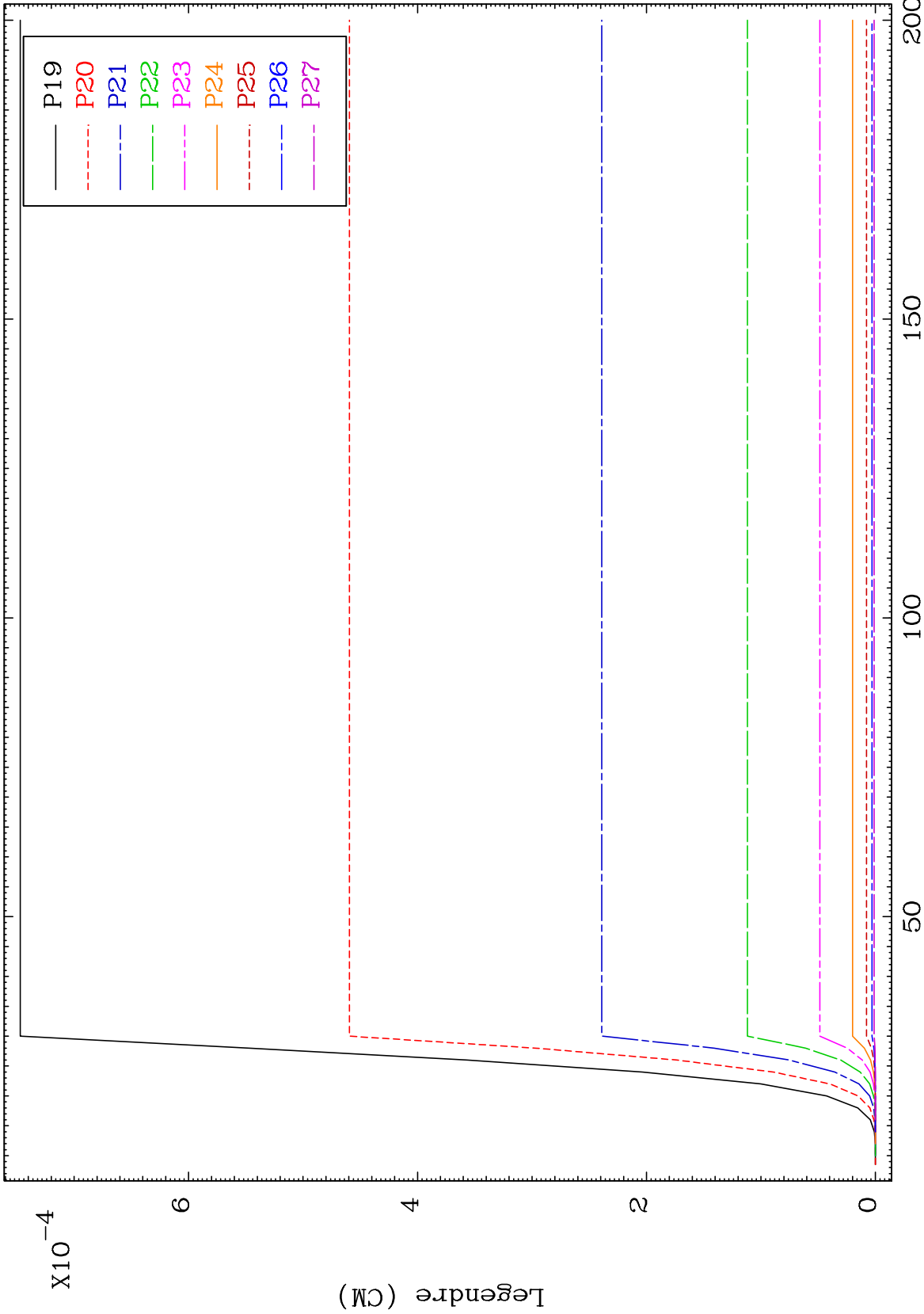
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



58

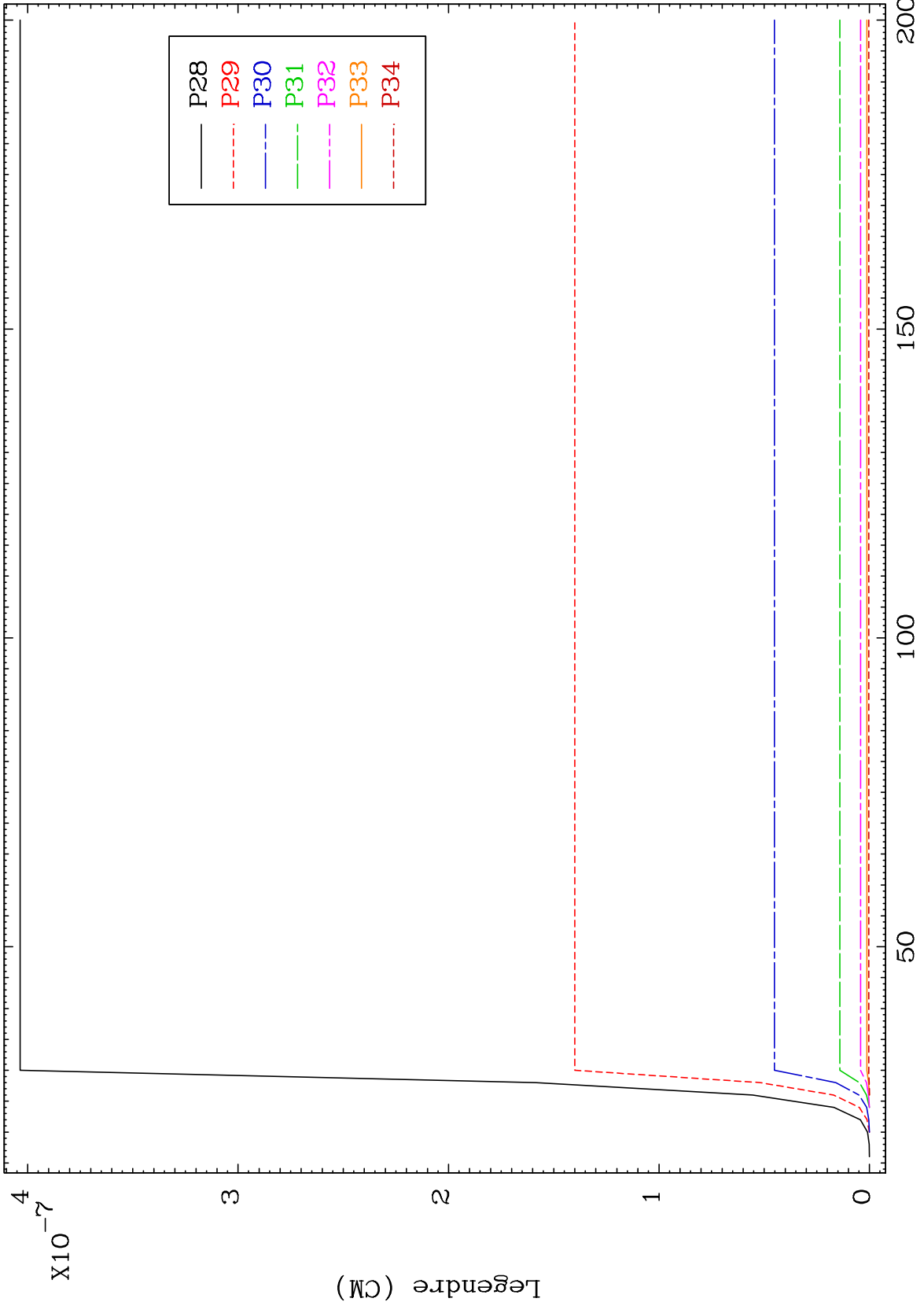
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



59

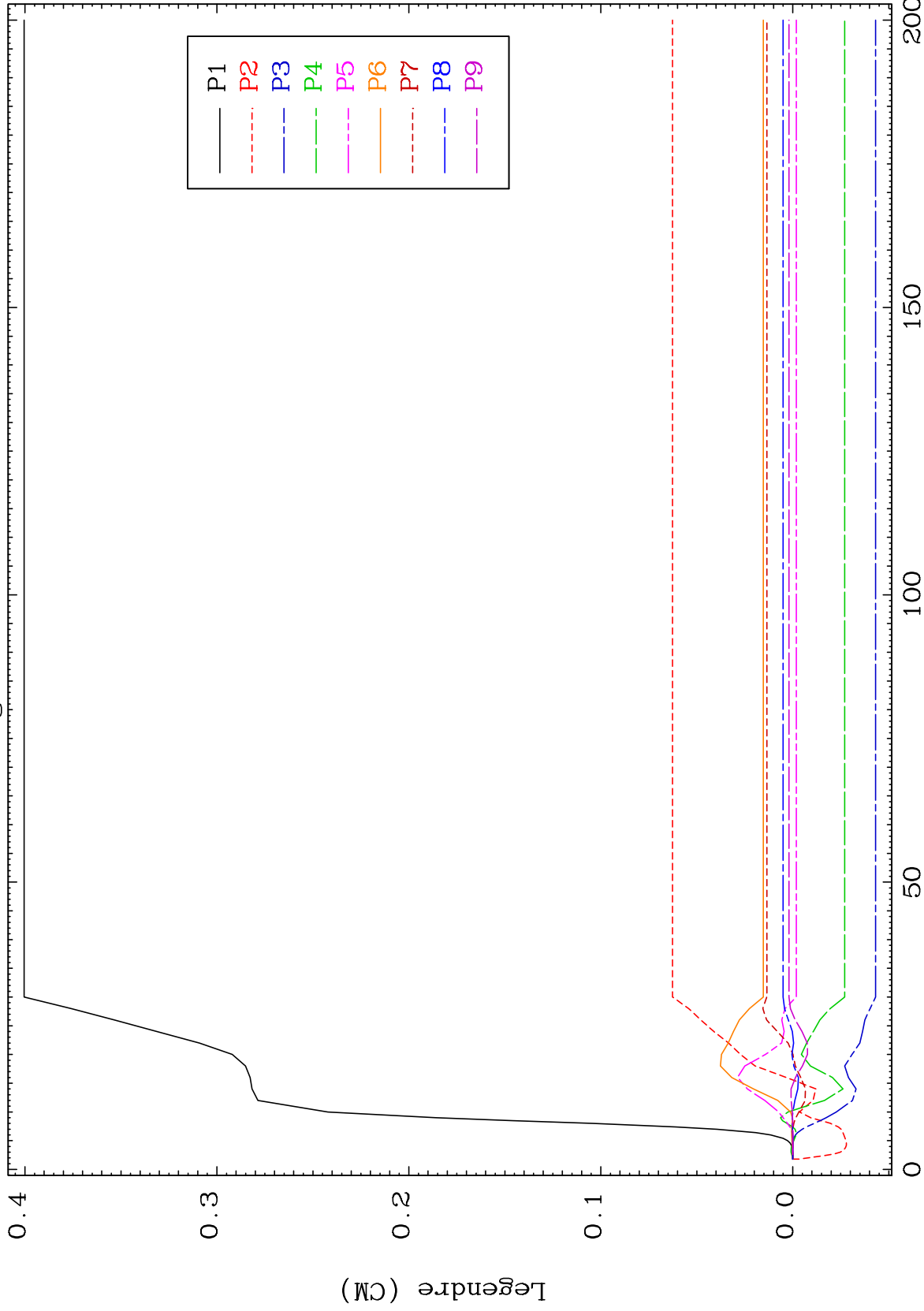
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



41-Nb-97

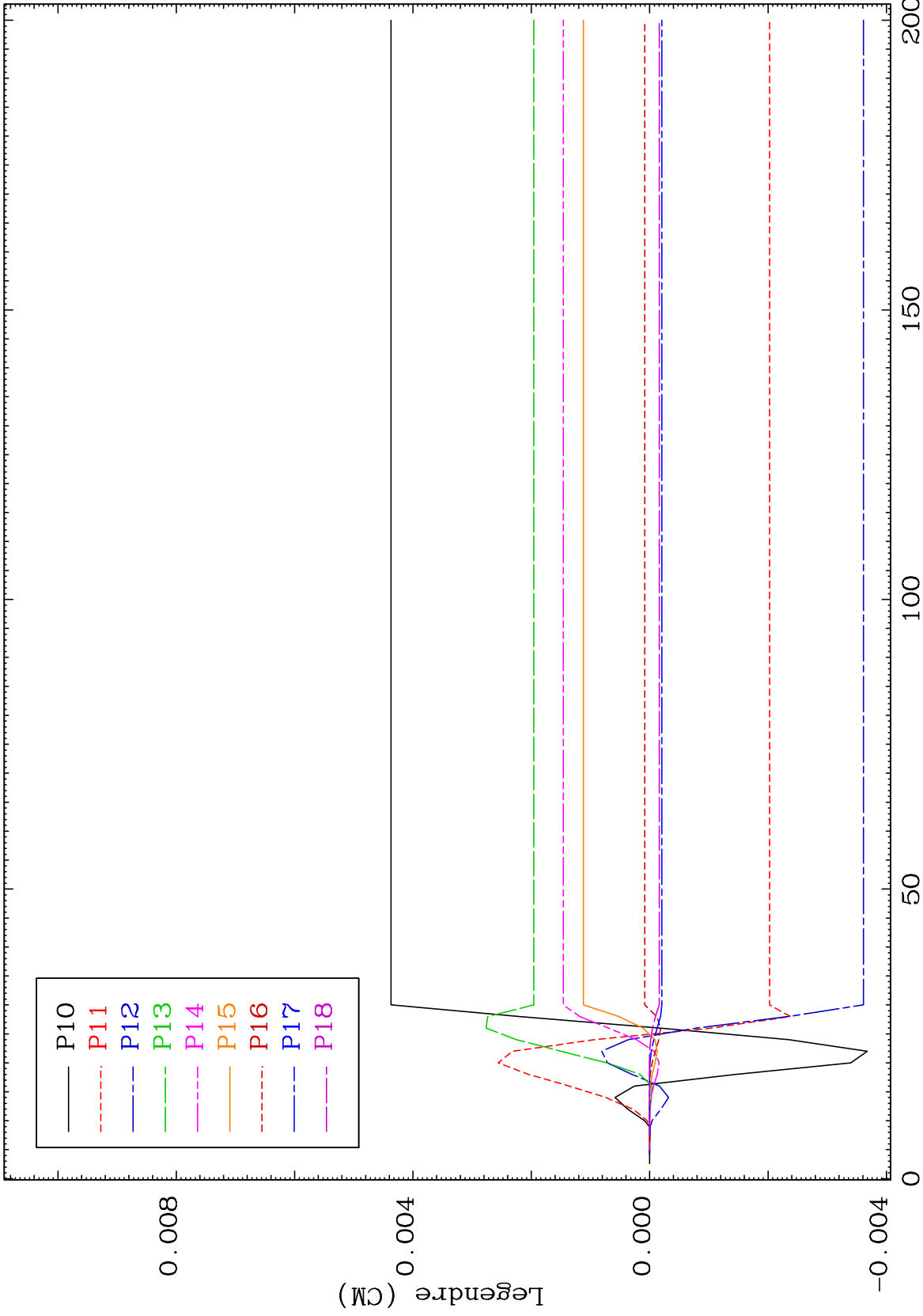
Incident Energy (MeV)

60

MAT 4137

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

41-Nb-97



61

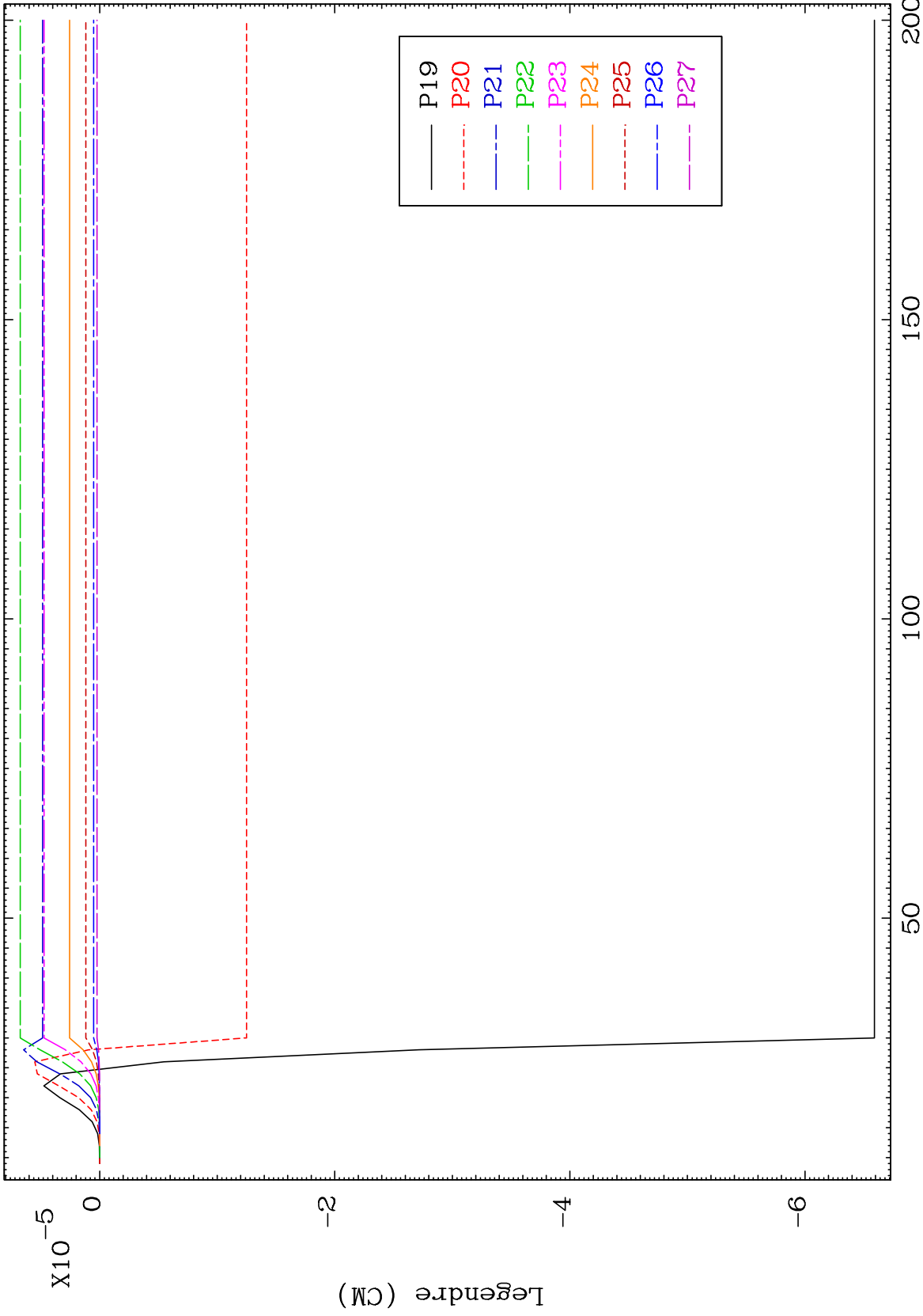
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



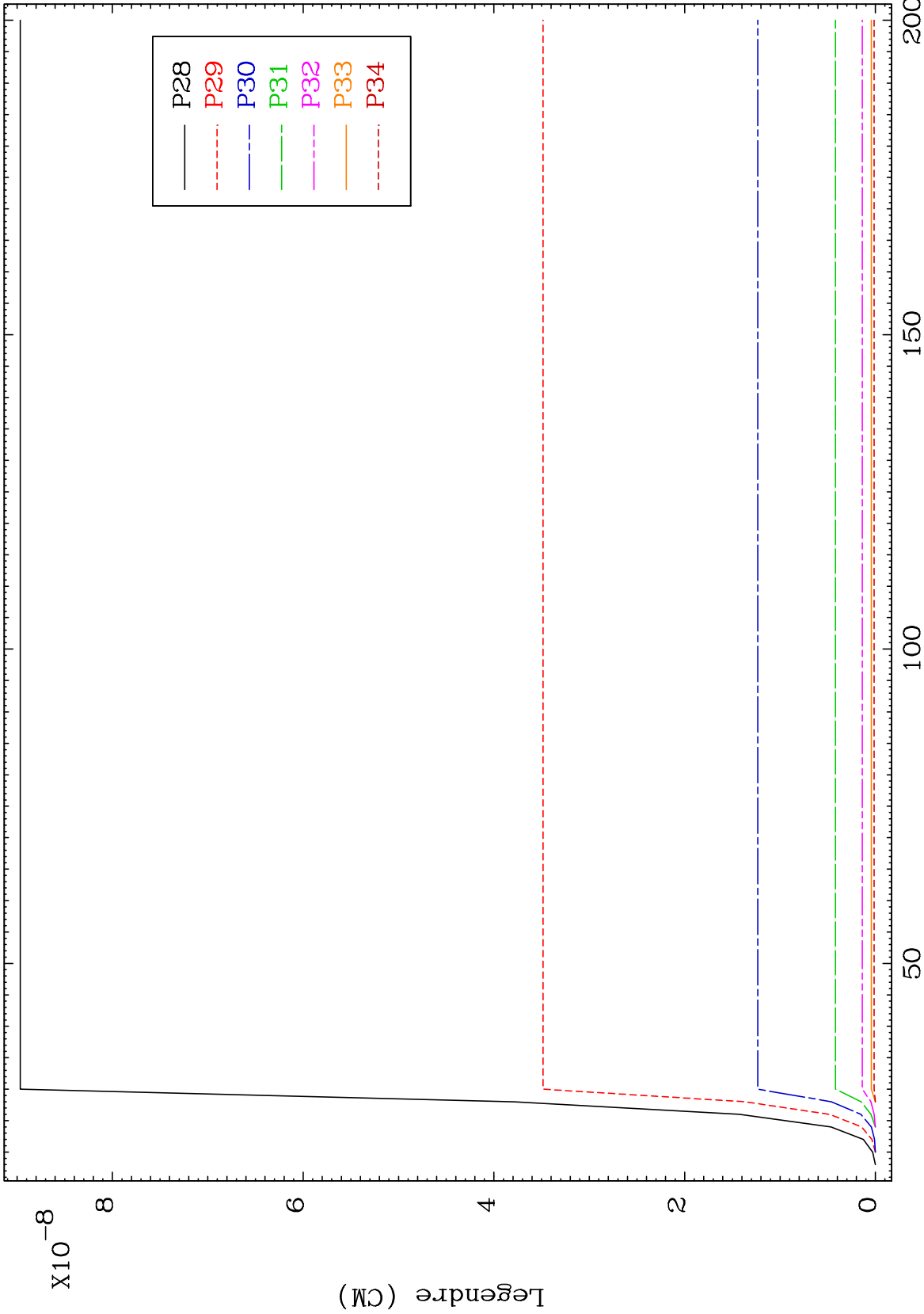
62

41-Nb-97

MAT 4137

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

41-Nb-97



63

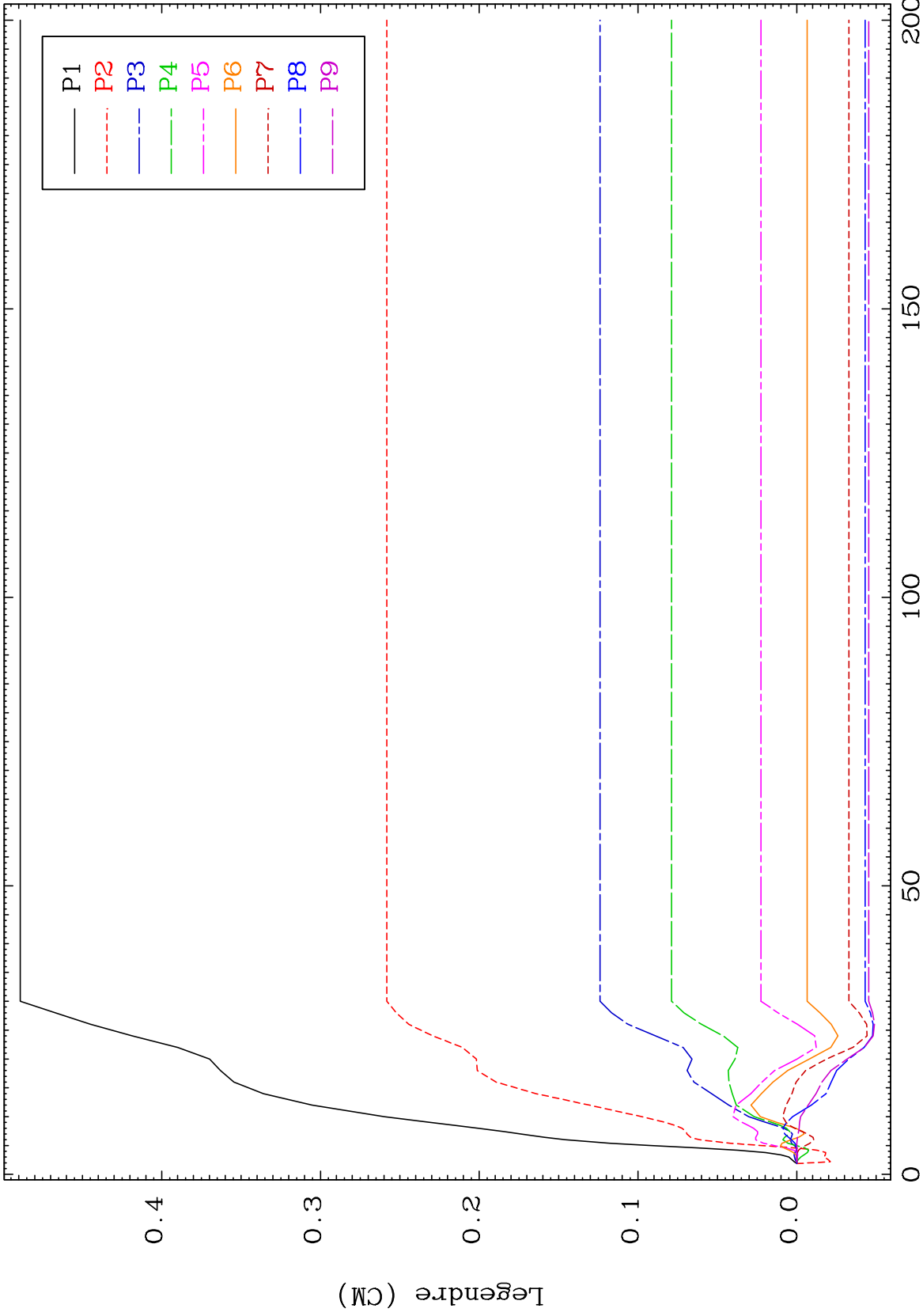
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



64

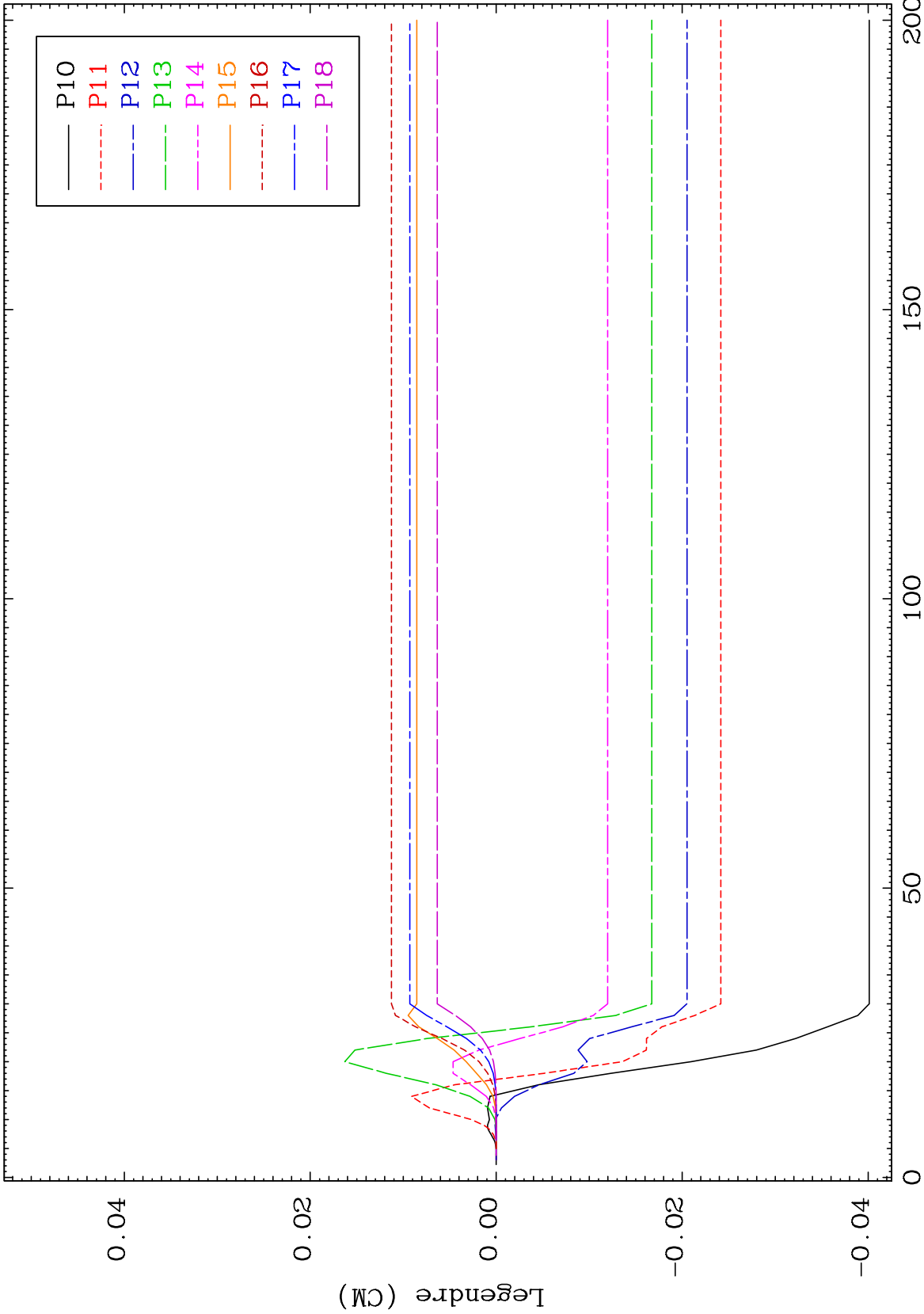
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



65

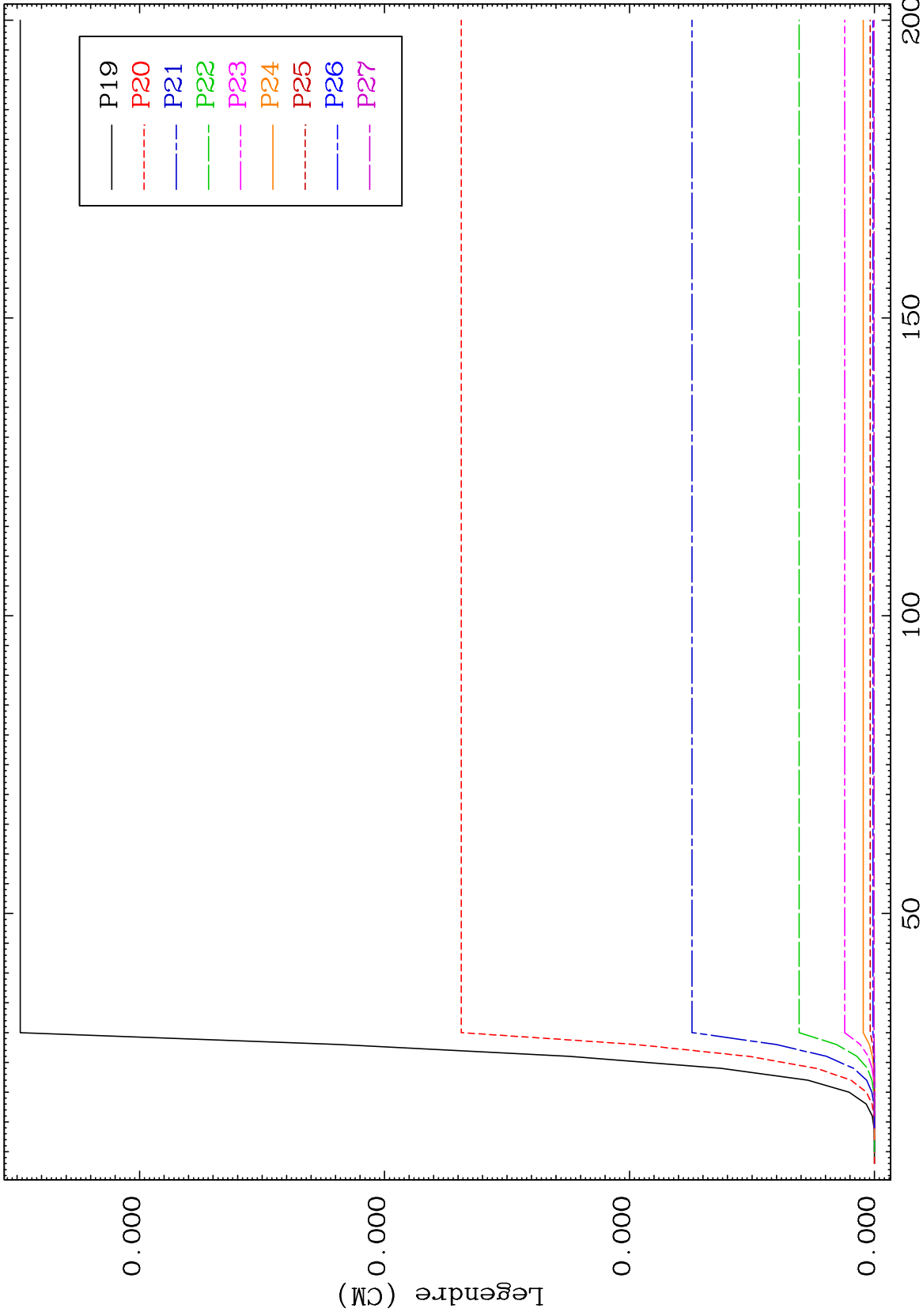
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



66

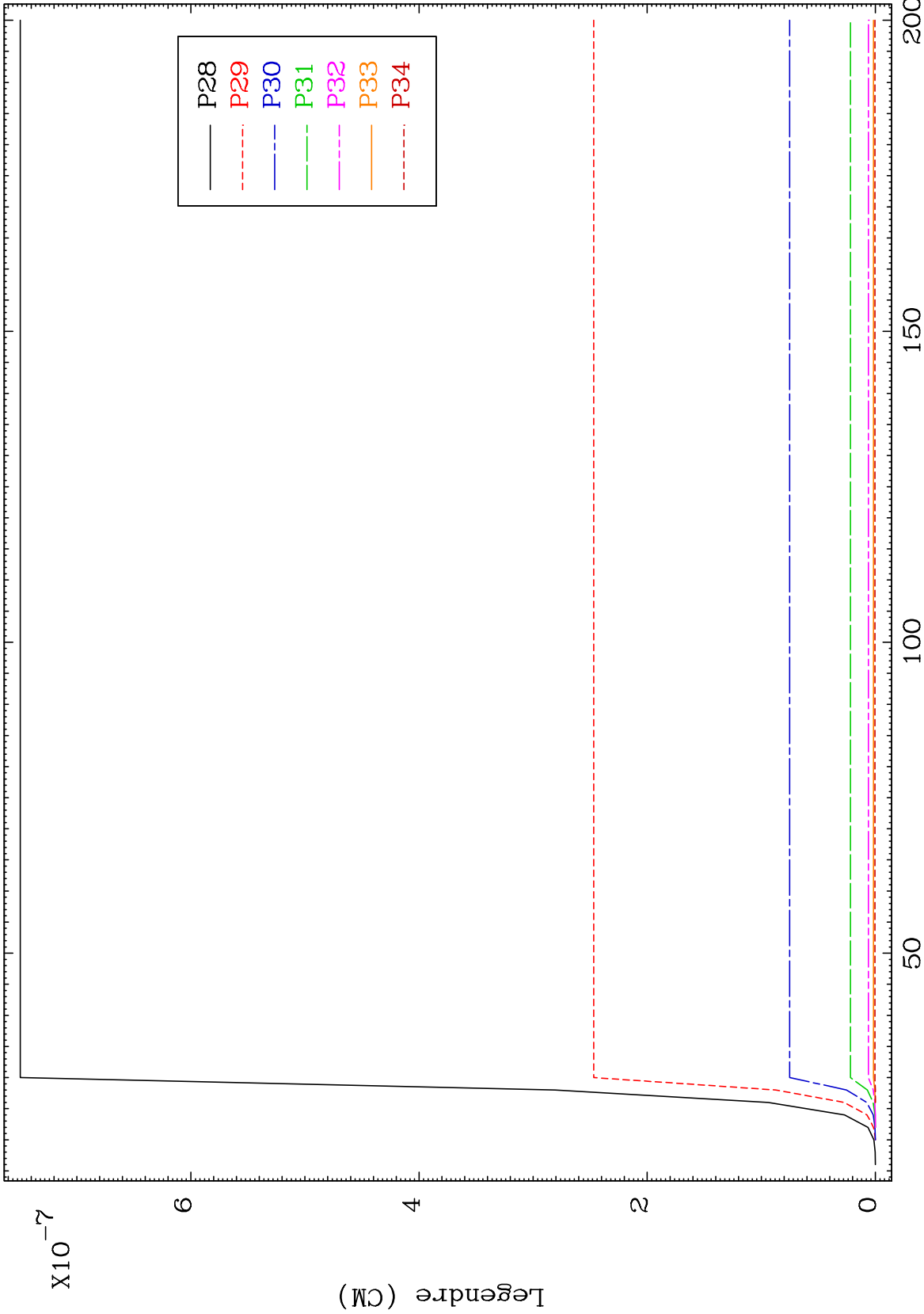
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



67

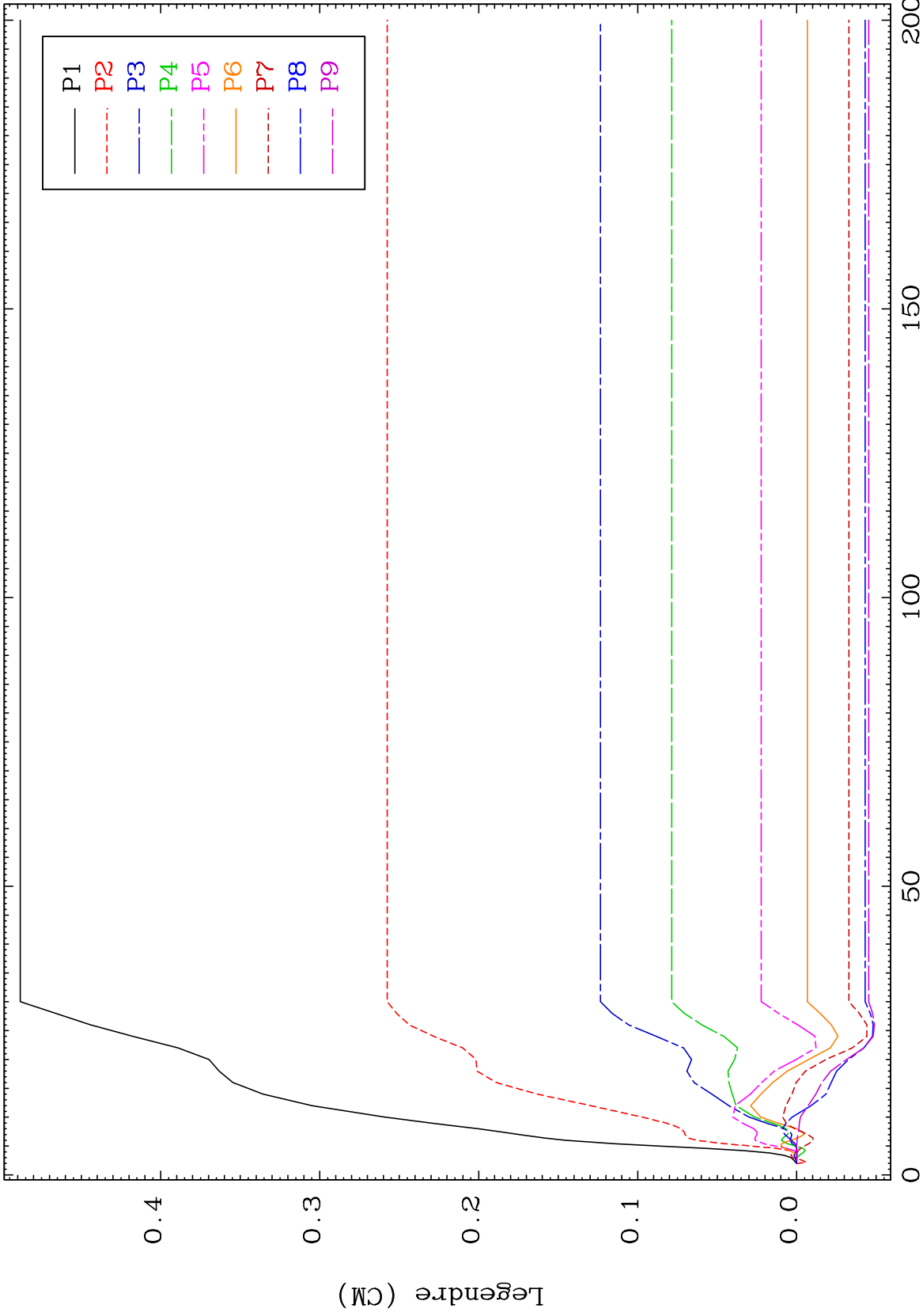
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



68

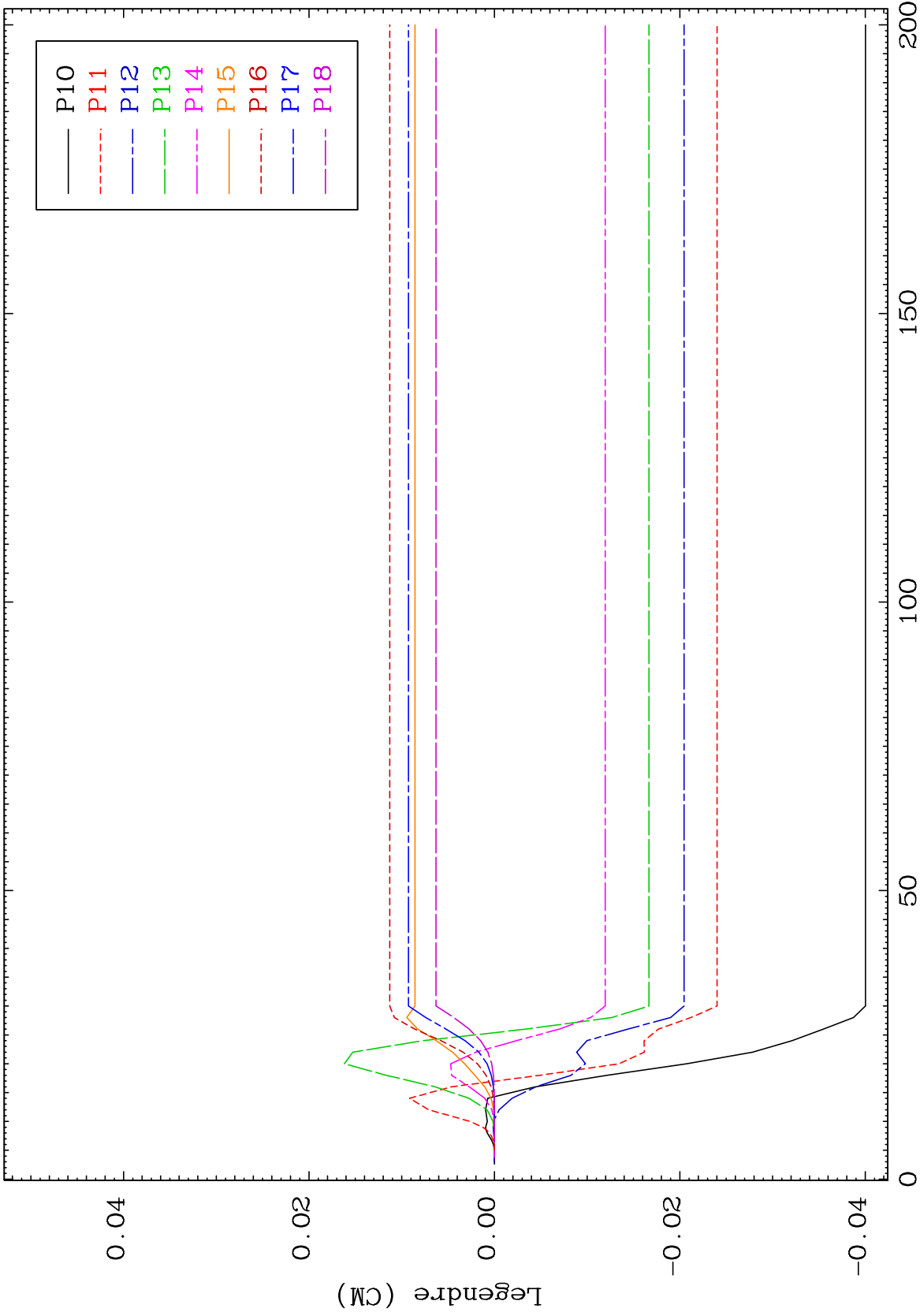
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



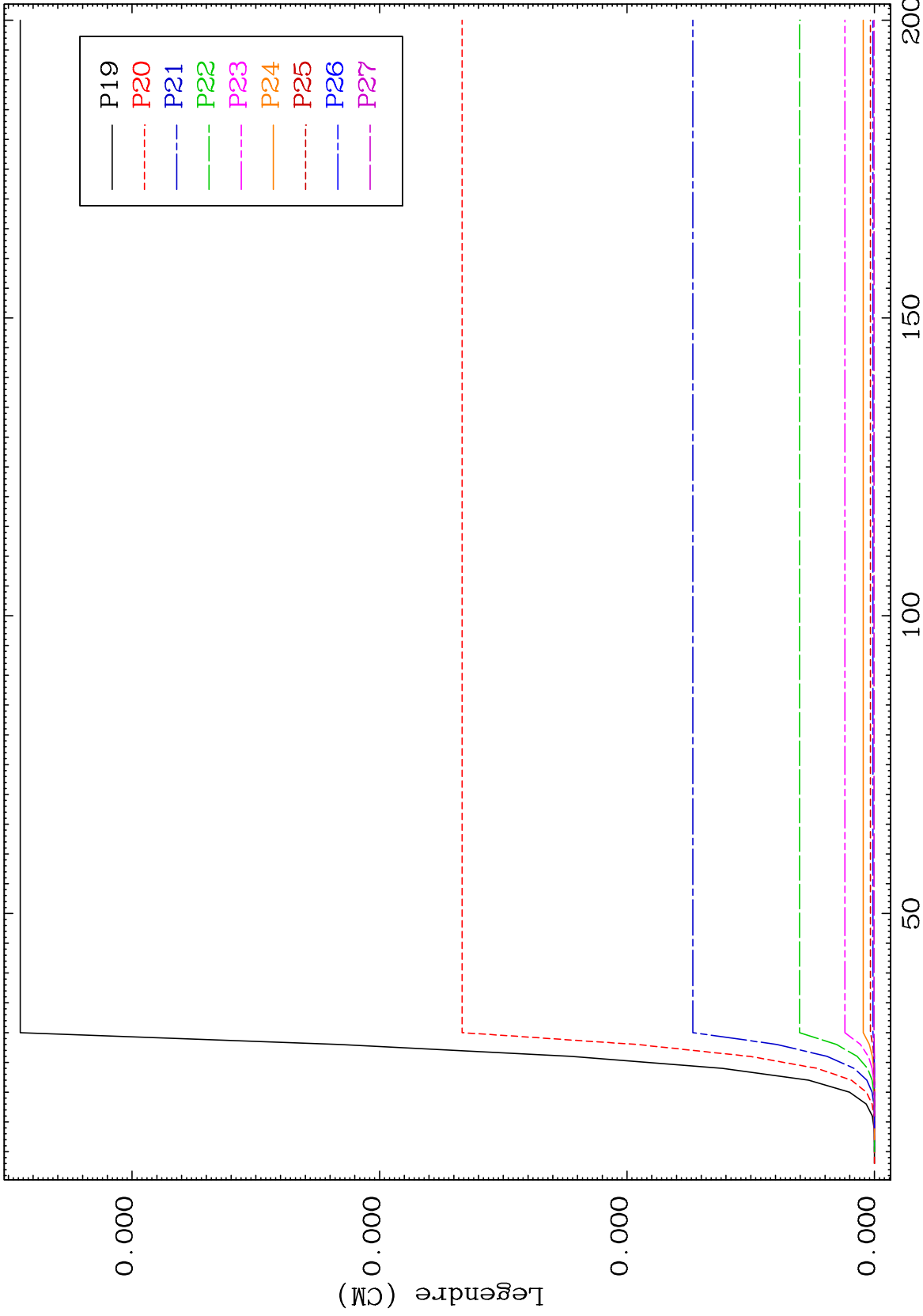
69

41-Nb-97

MAT 4137

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

41-Nb-97



70

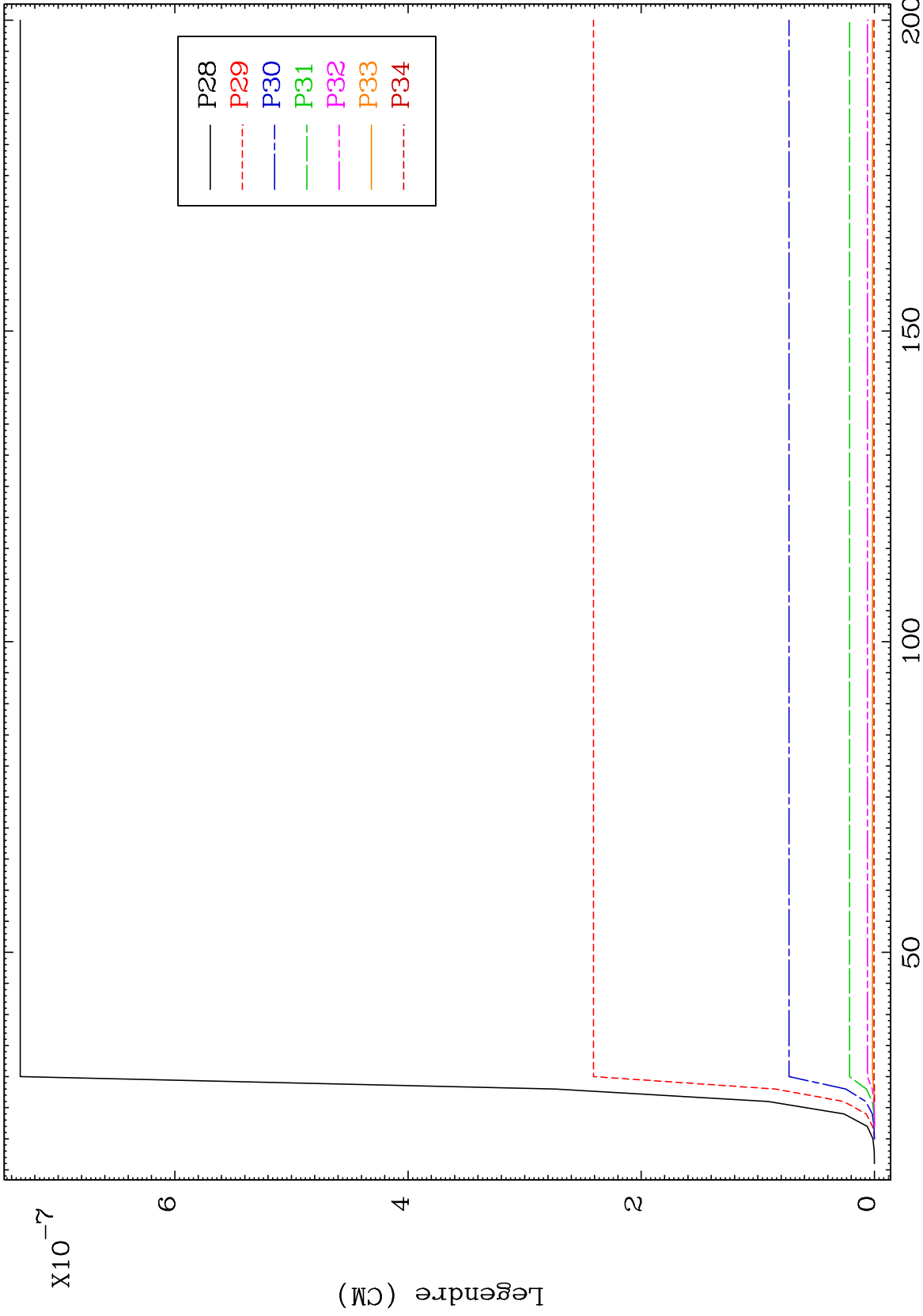
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



71

41-Nb-97

MAT 4137

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

41-Nb-97



72

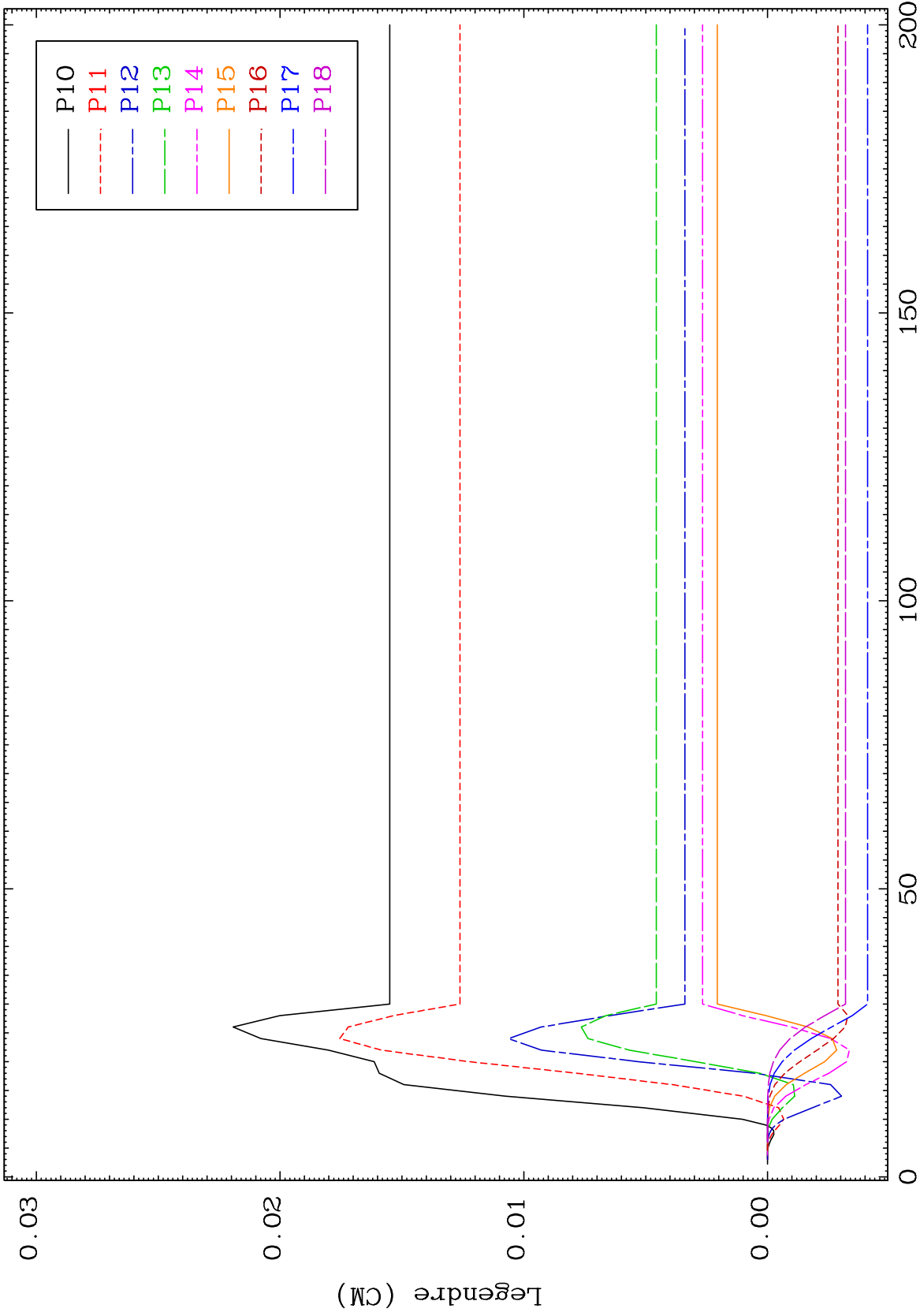
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

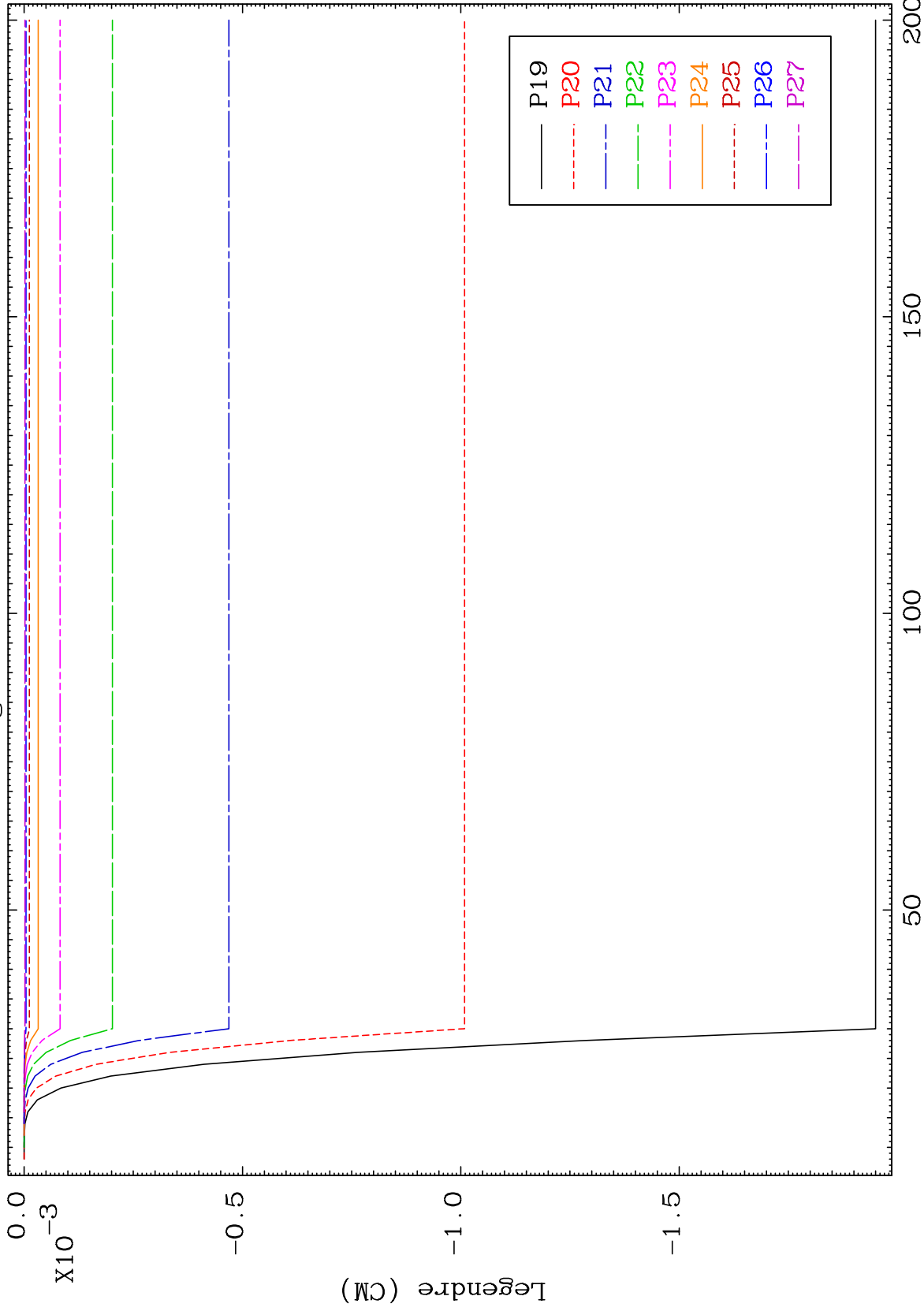
41-Nb-97



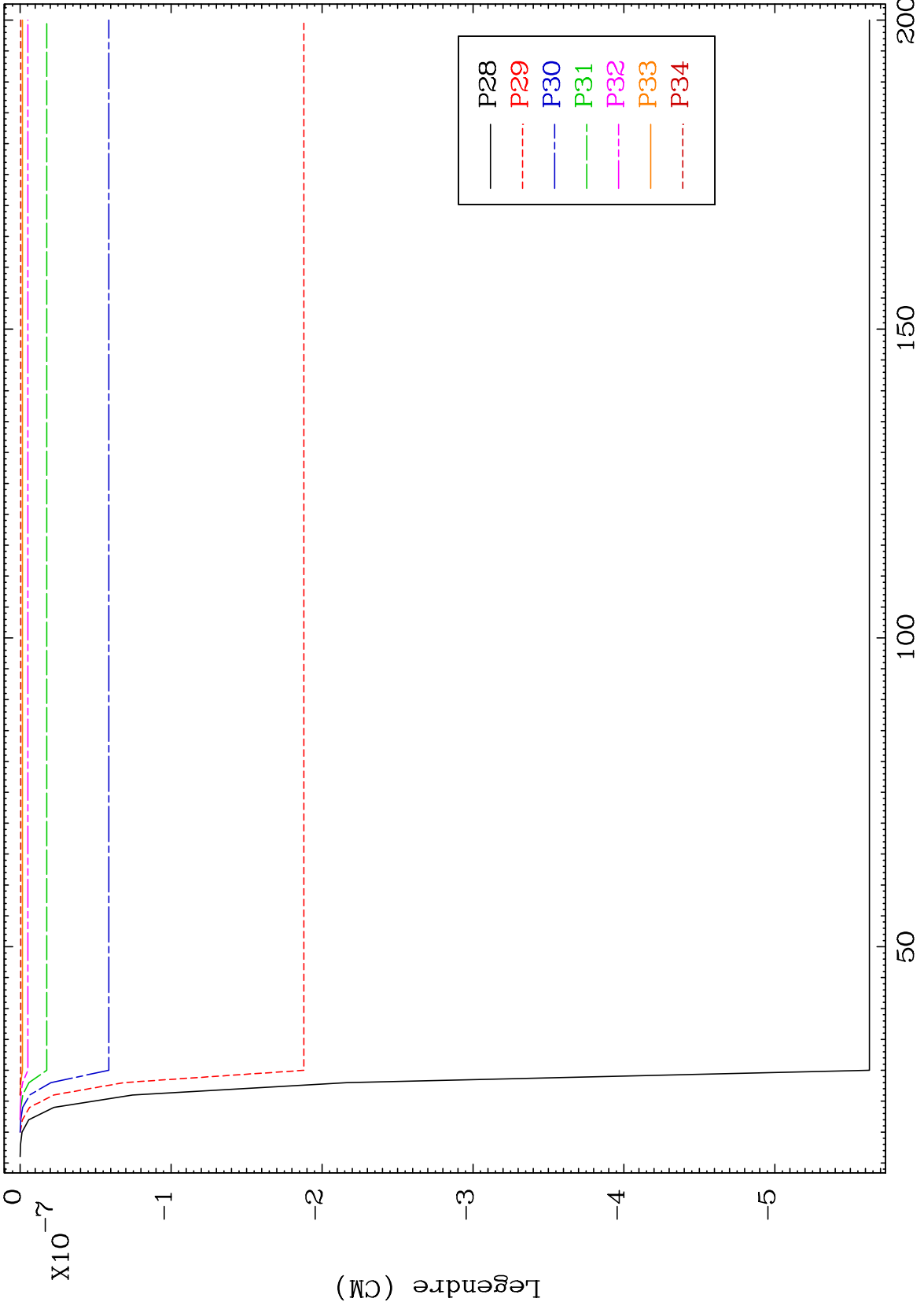
73

Incident Energy (MeV)

41-Nb-97



MAT 4137 MT= 64 (n,n') Level Legendre Coefficients 41-Nb-97

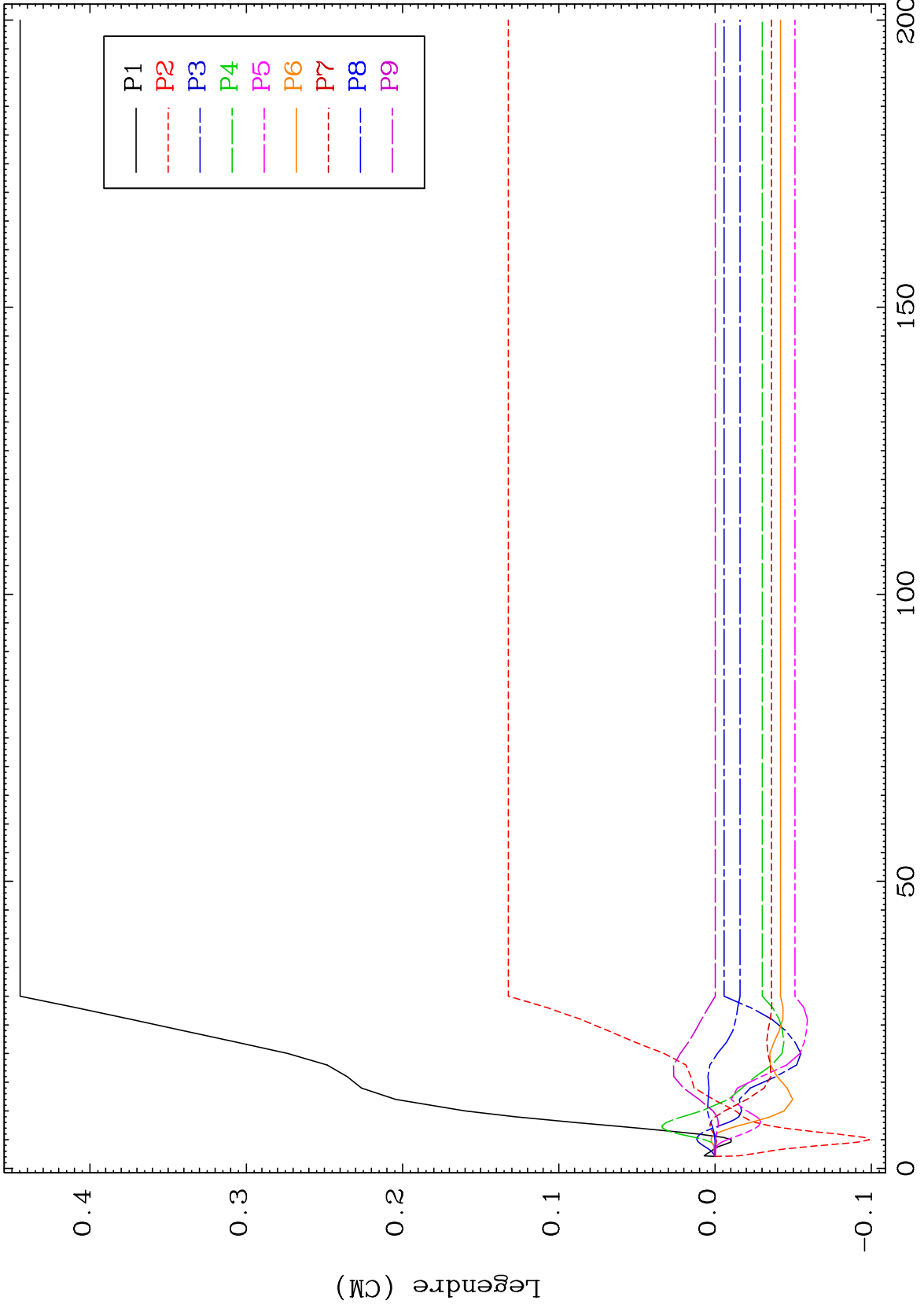


75 Incident Energy (MeV) 41-Nb-97

MAT 4137

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

41-Nb-97



76

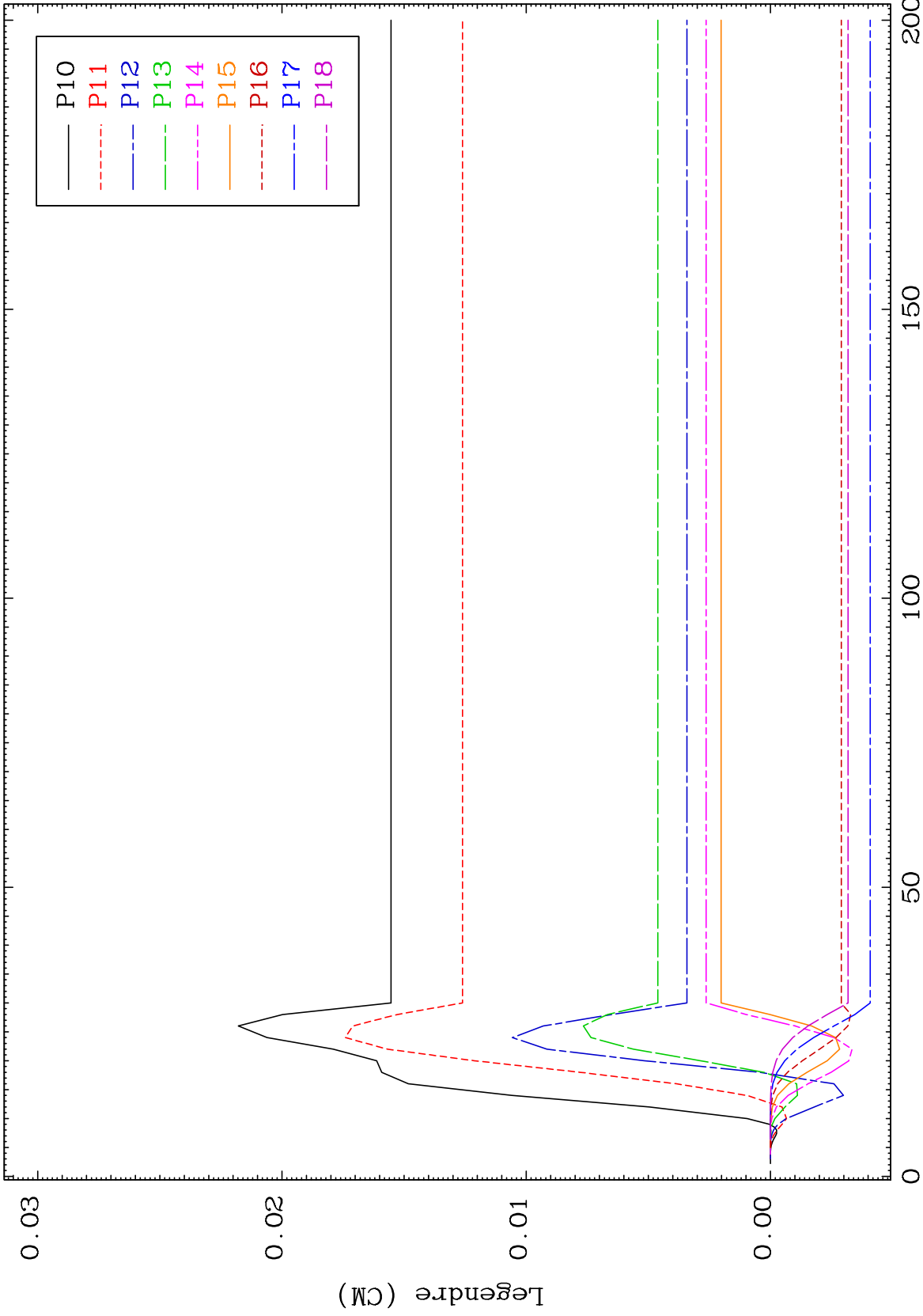
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



77

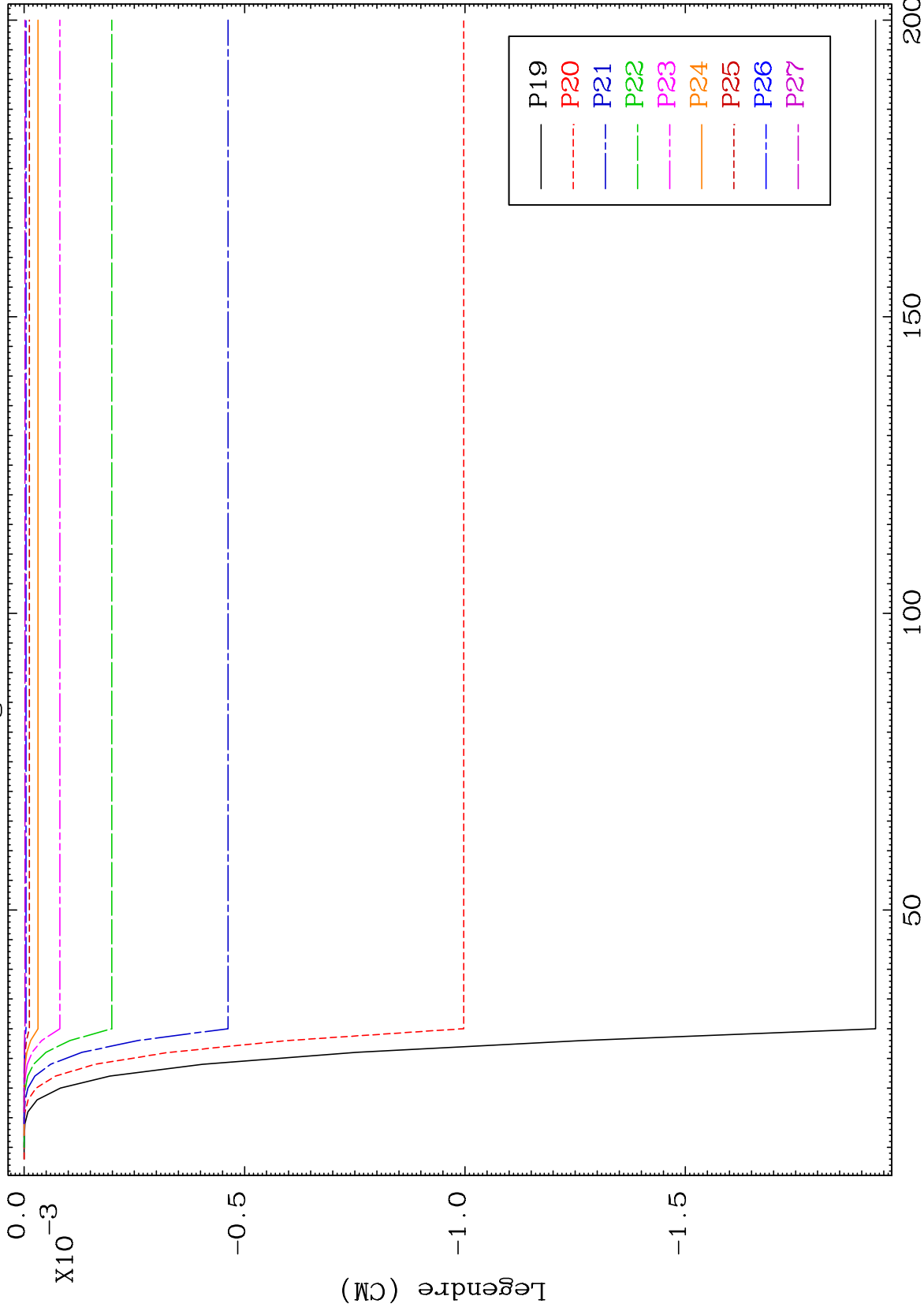
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

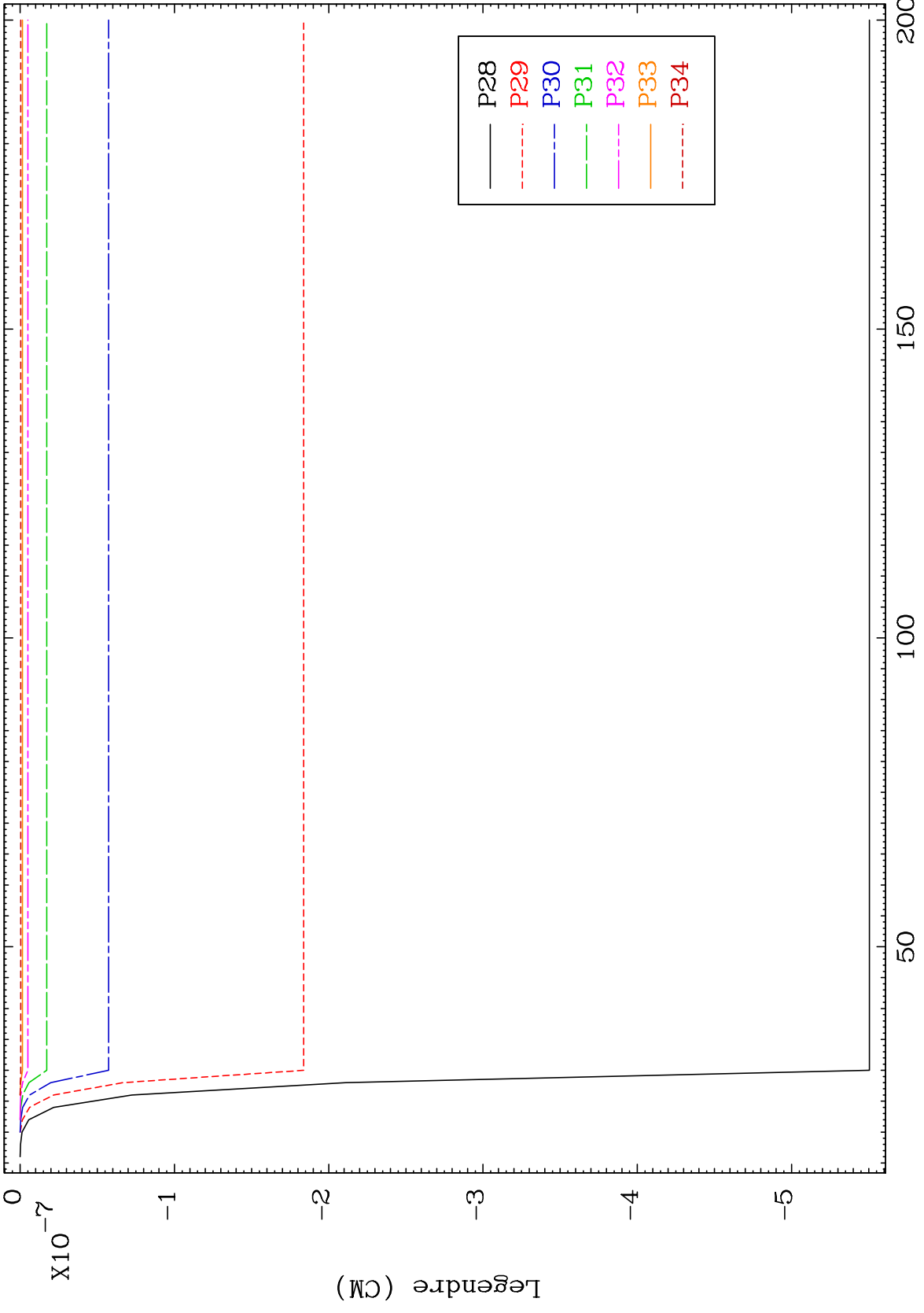
41-Nb-97



78

41-Nb-97

MAT 4137 MT= 65 (n,n') Level Legendre Coefficients 41-Nb-97

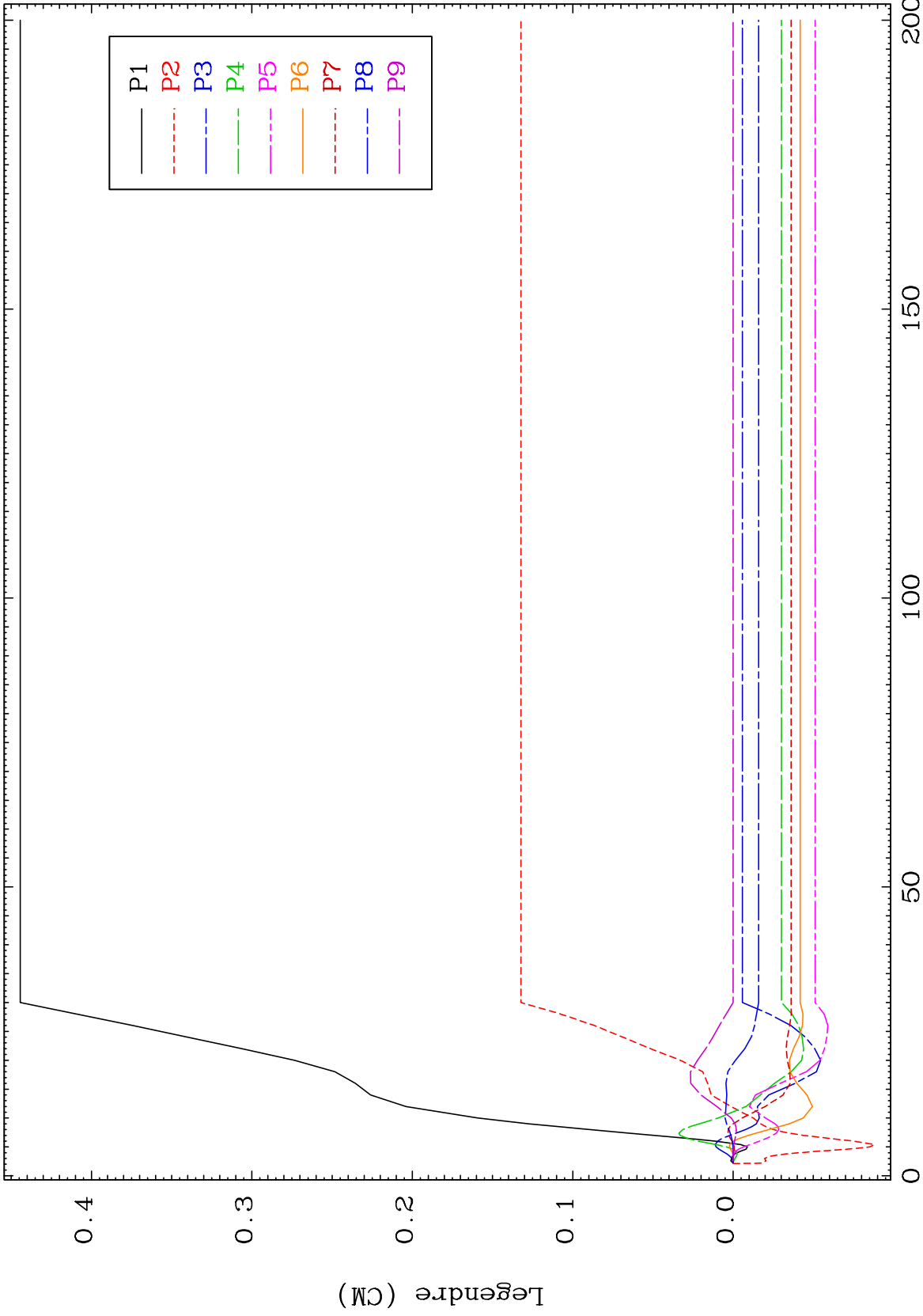


79 41-Nb-97

MAT 4137

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

41-Nb-97



41-Nb-97

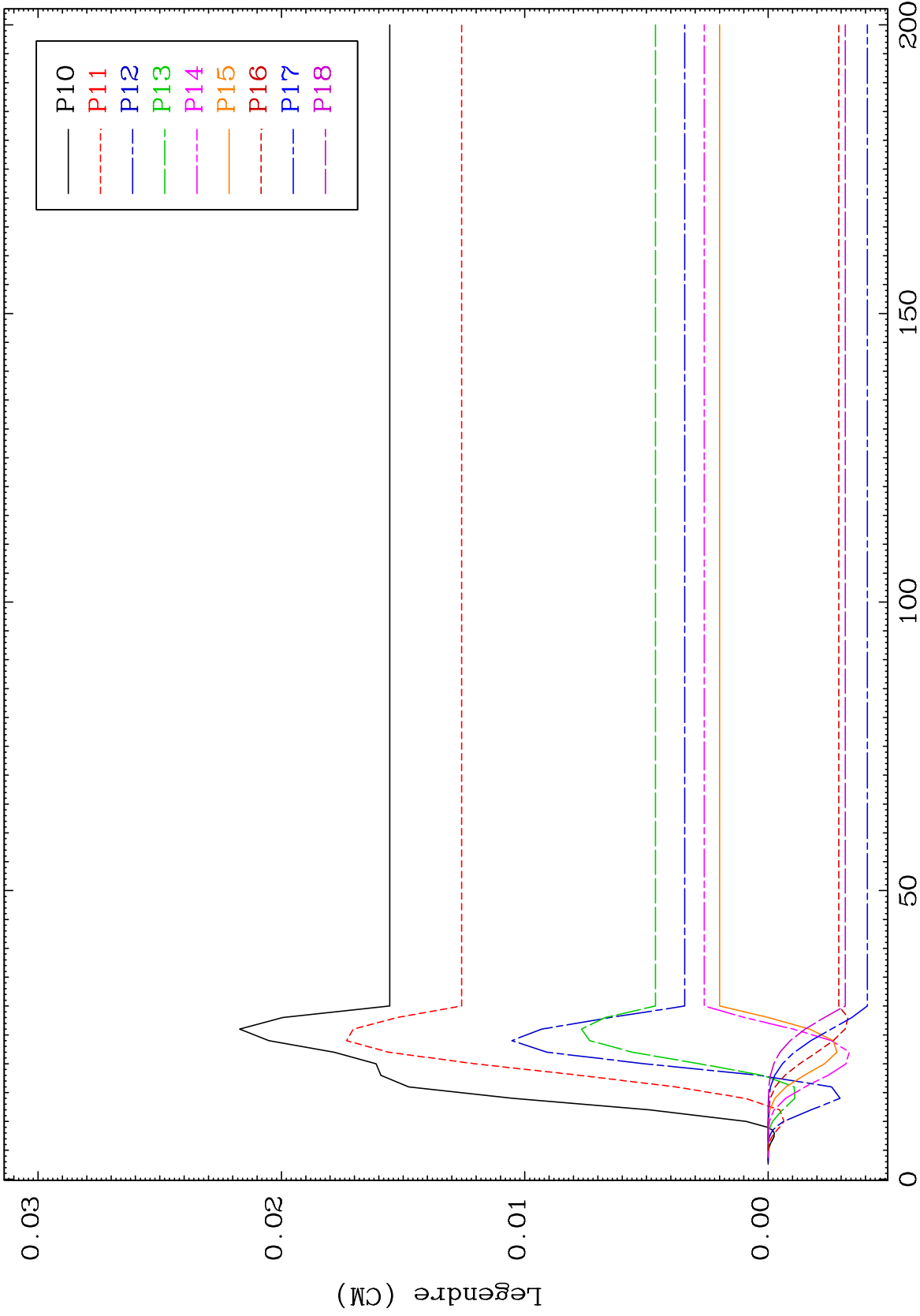
Incident Energy (MeV)

80

MAT 4137

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

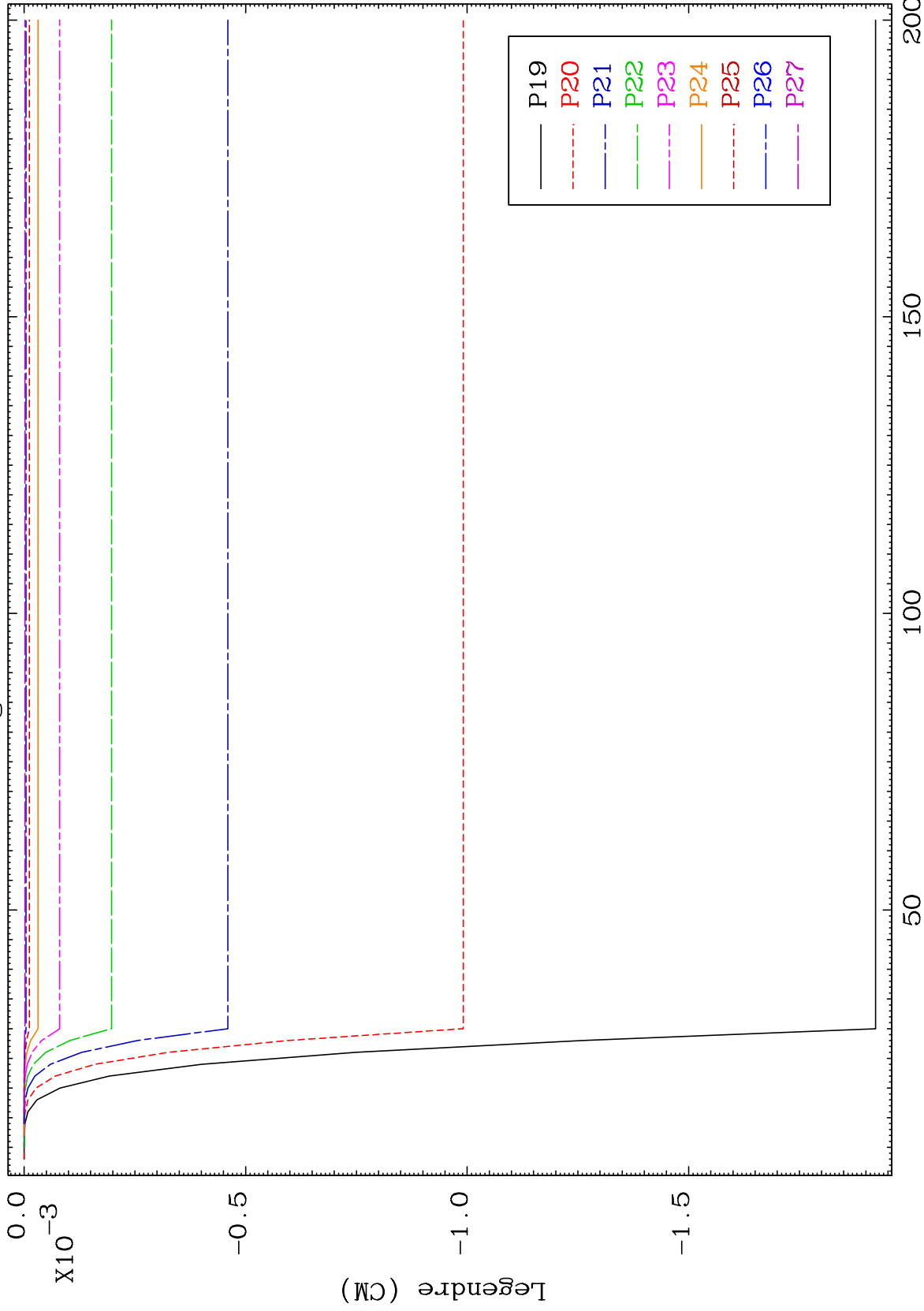
41-Nb-97



81

Incident Energy (MeV)

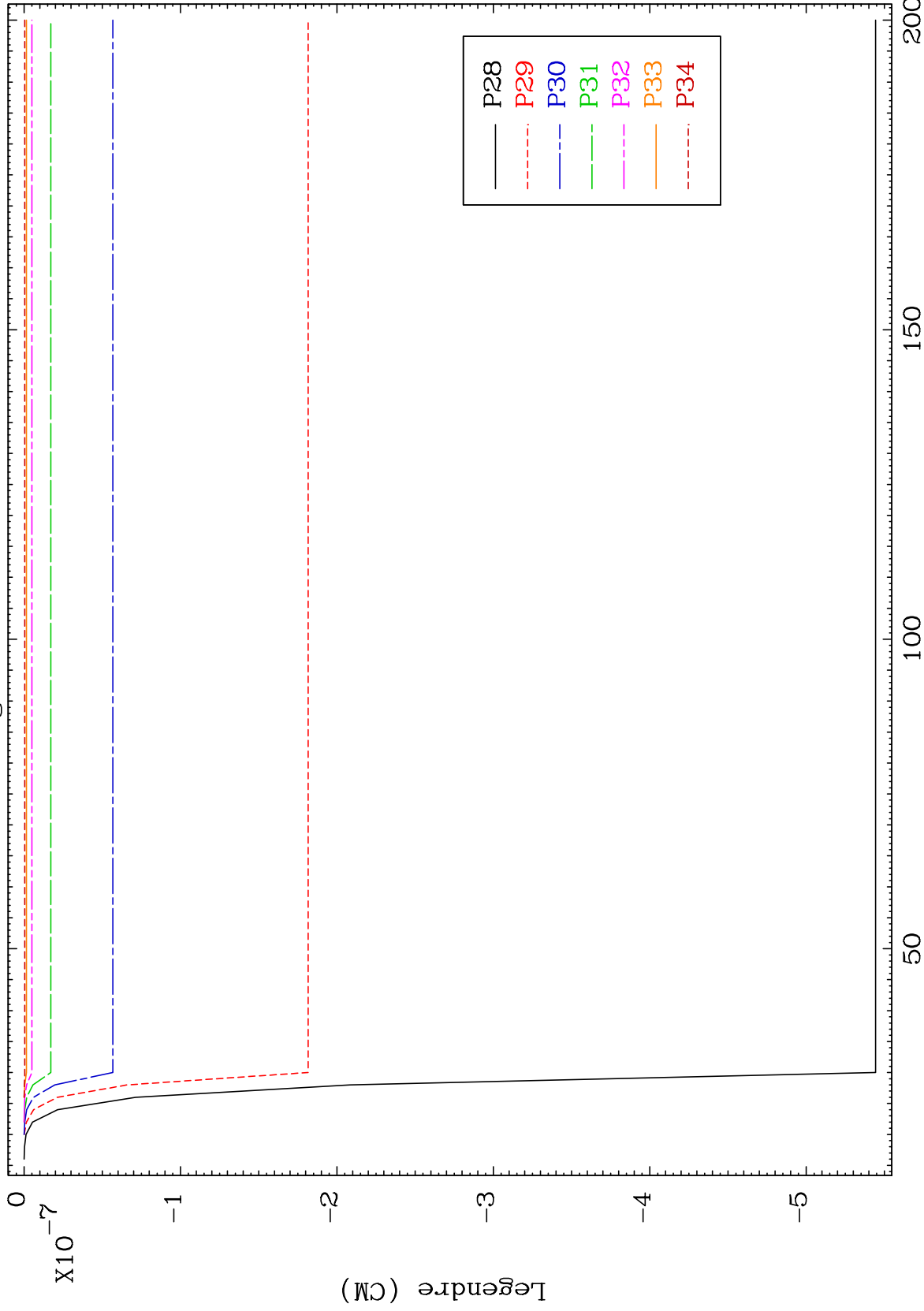
41-Nb-97



MAT 4137

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

41-Nb-97



MAT 4137

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

41-Nb-97



84

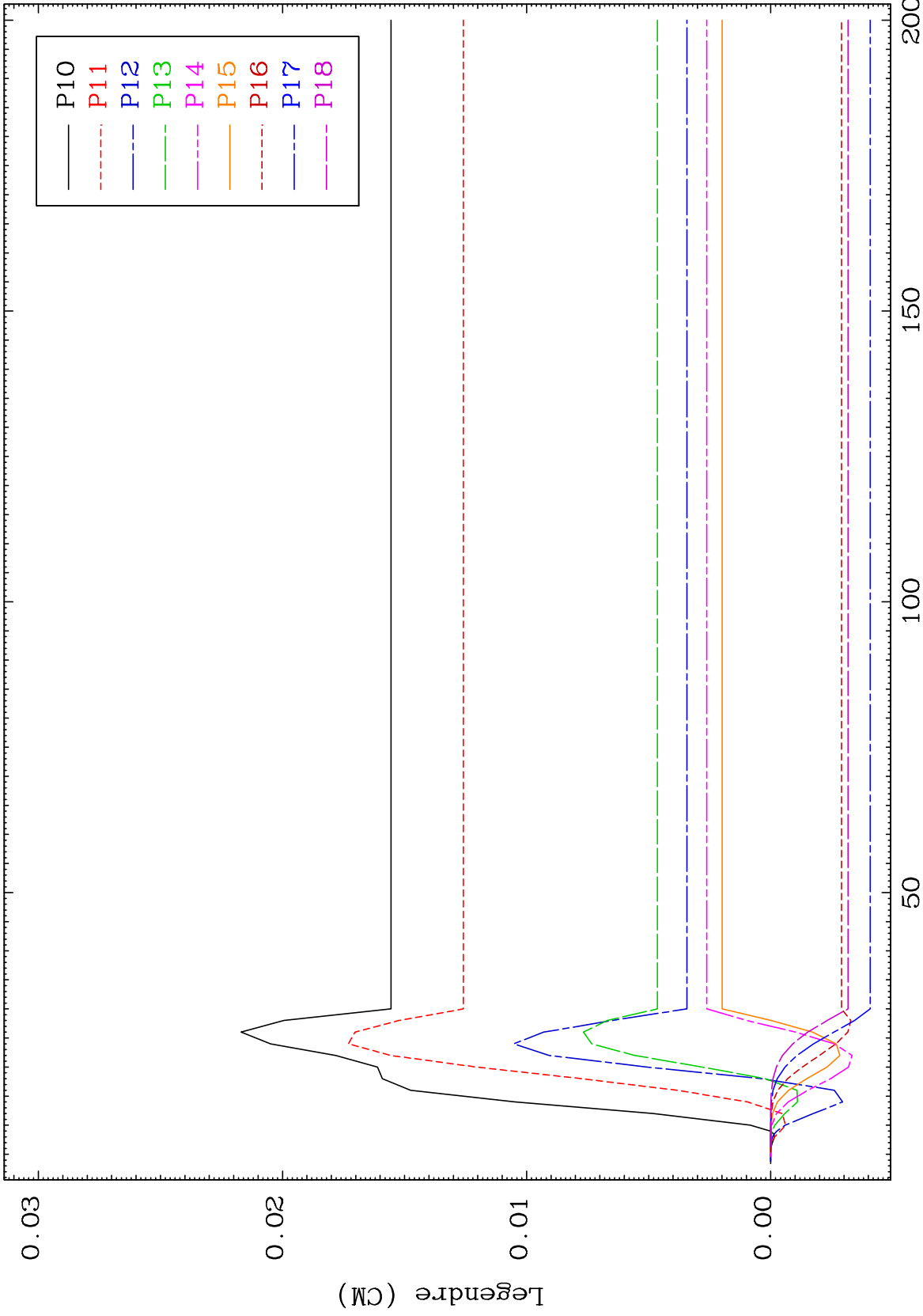
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



85

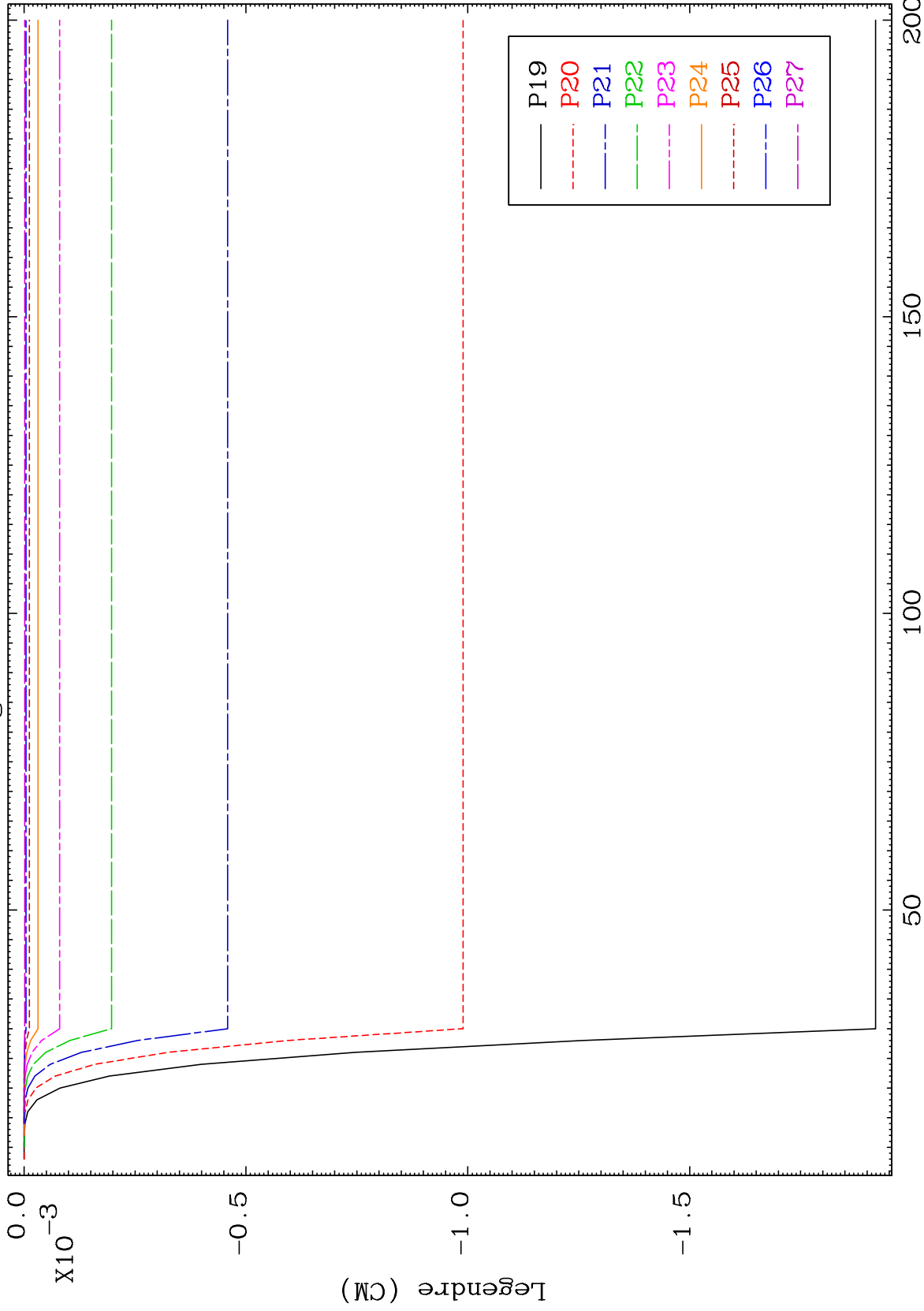
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

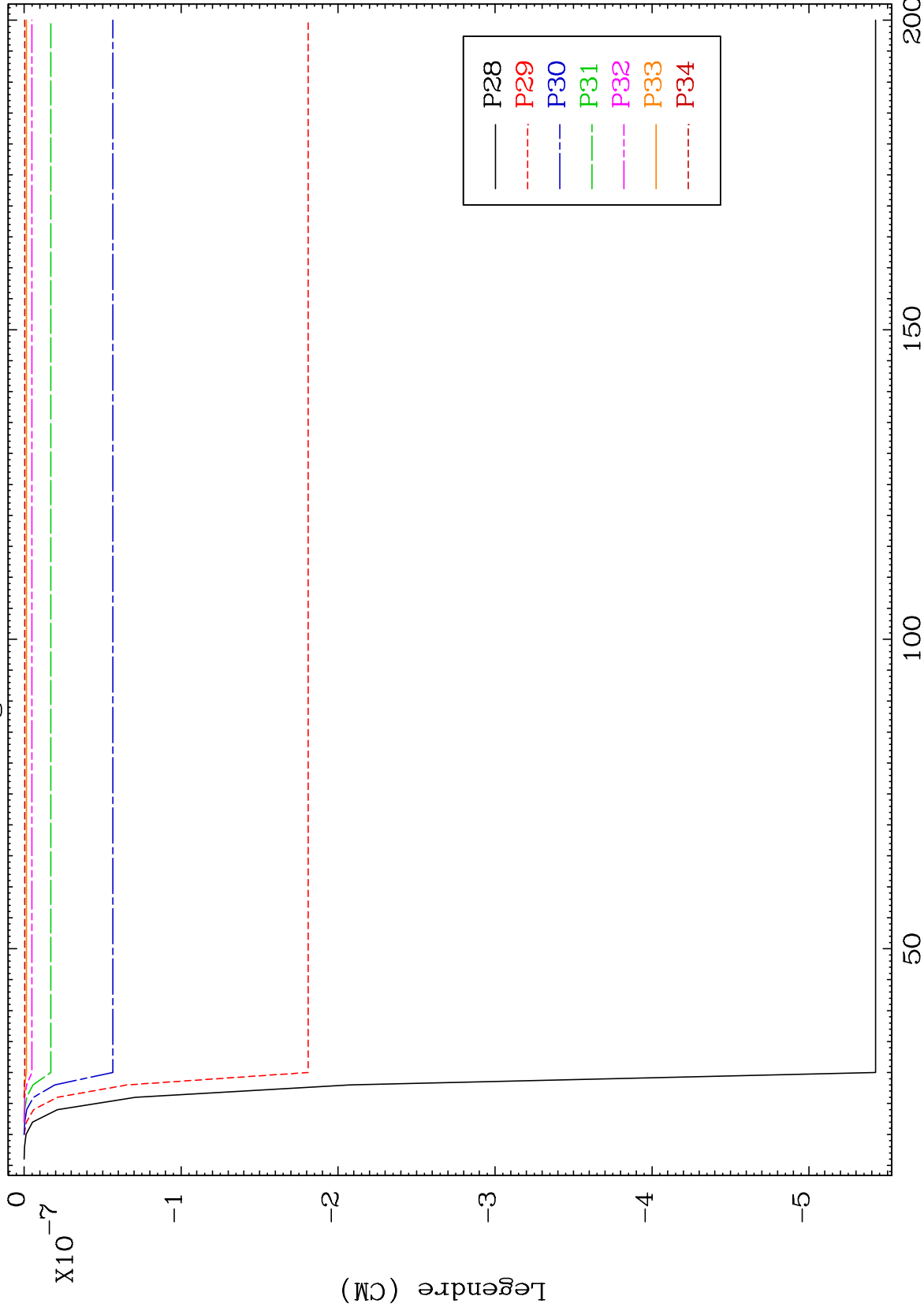
41-Nb-97



86

41-Nb-97

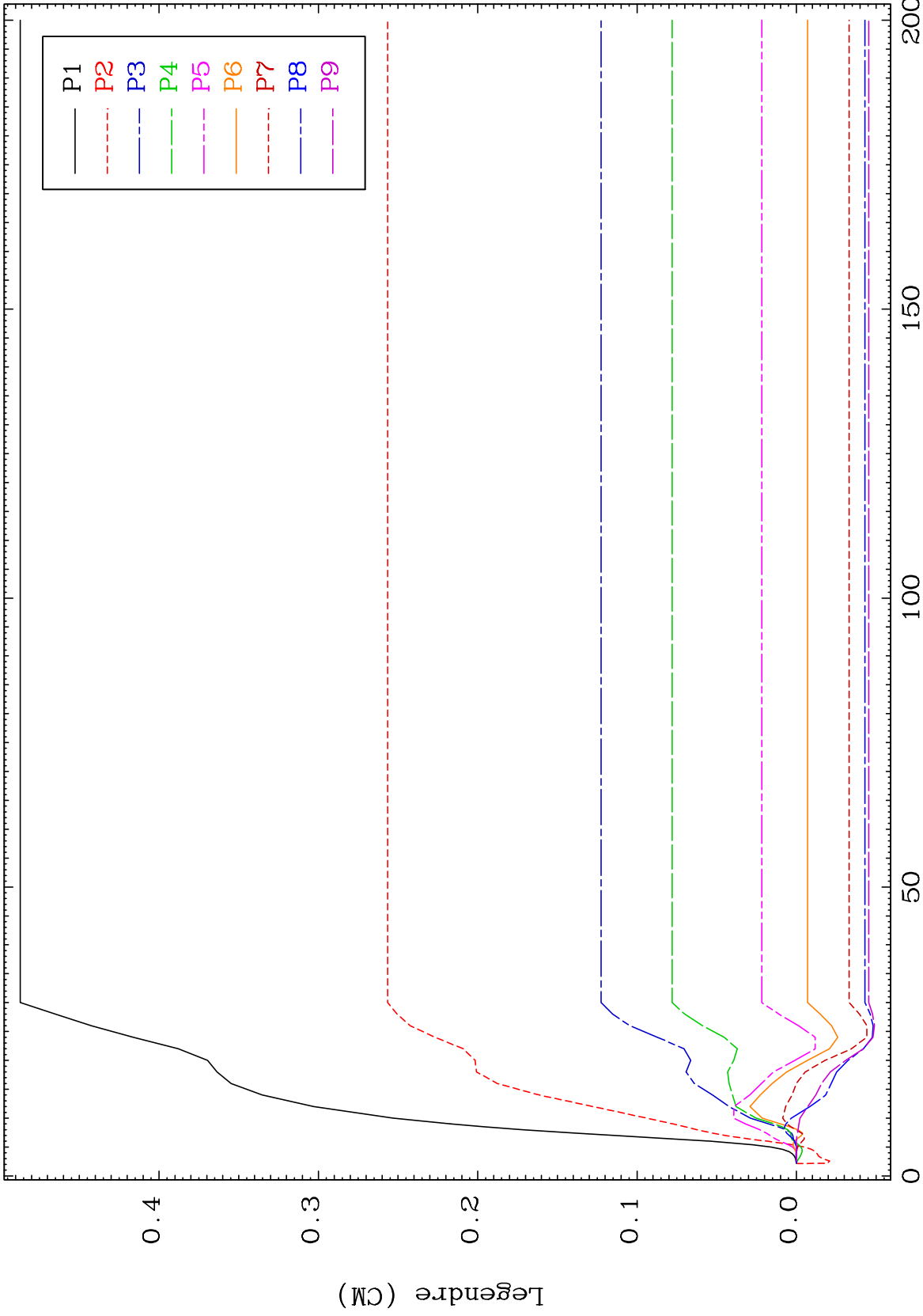
MAT 4137 MT= 67 (n,n') Level Legendre Coefficients 41-Nb-97



MAT 4137

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

41-Nb-97



88

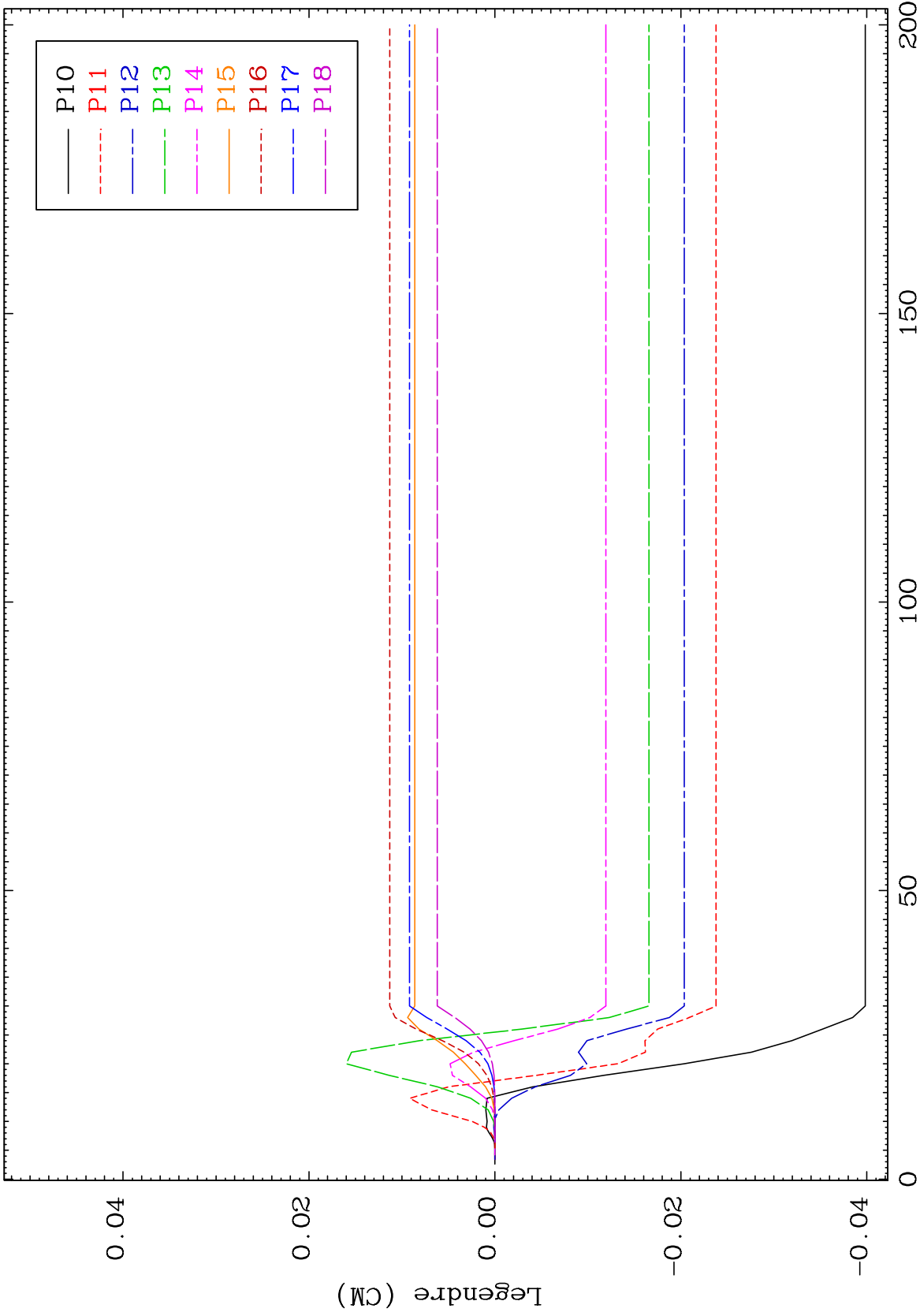
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



89

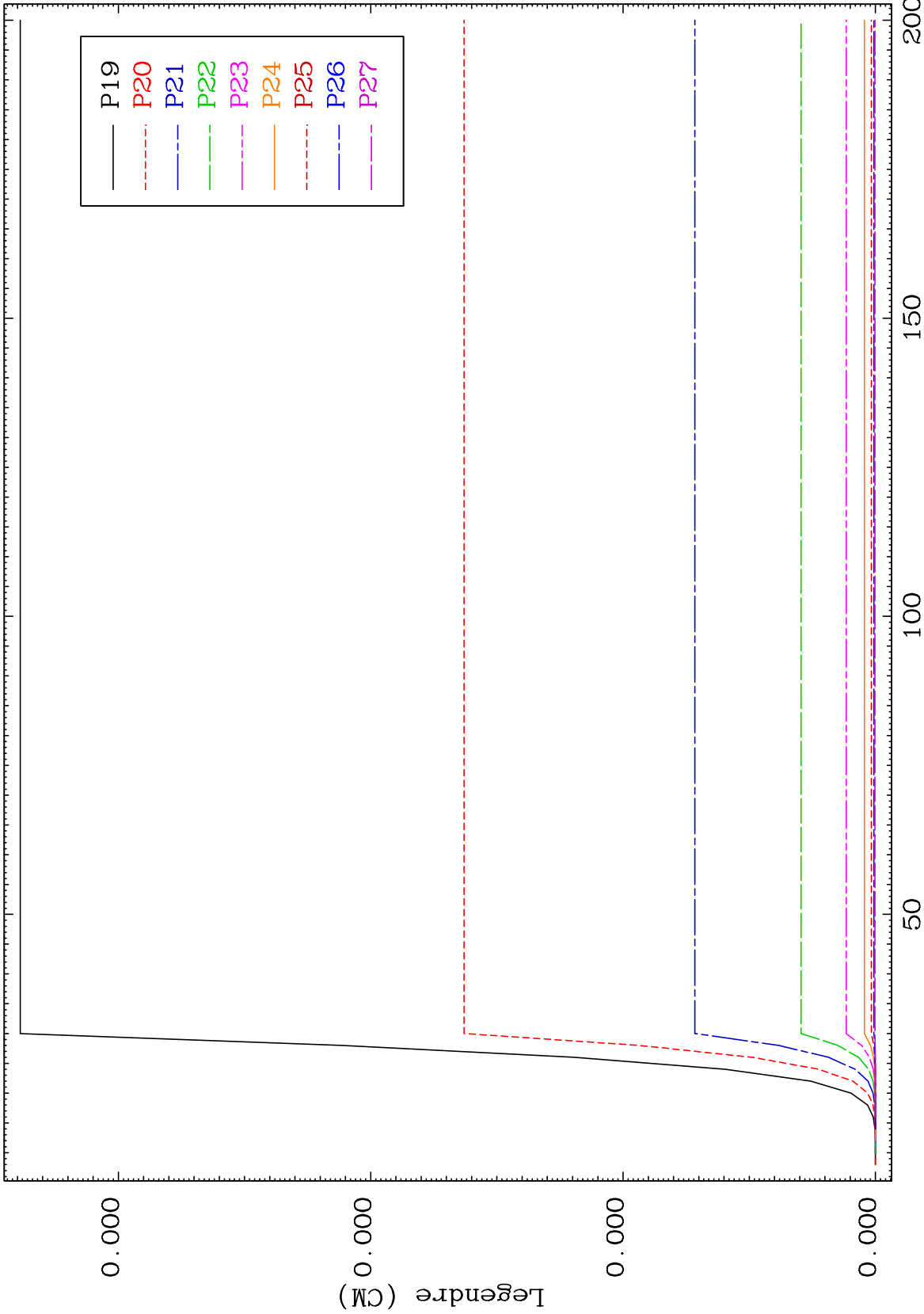
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



90

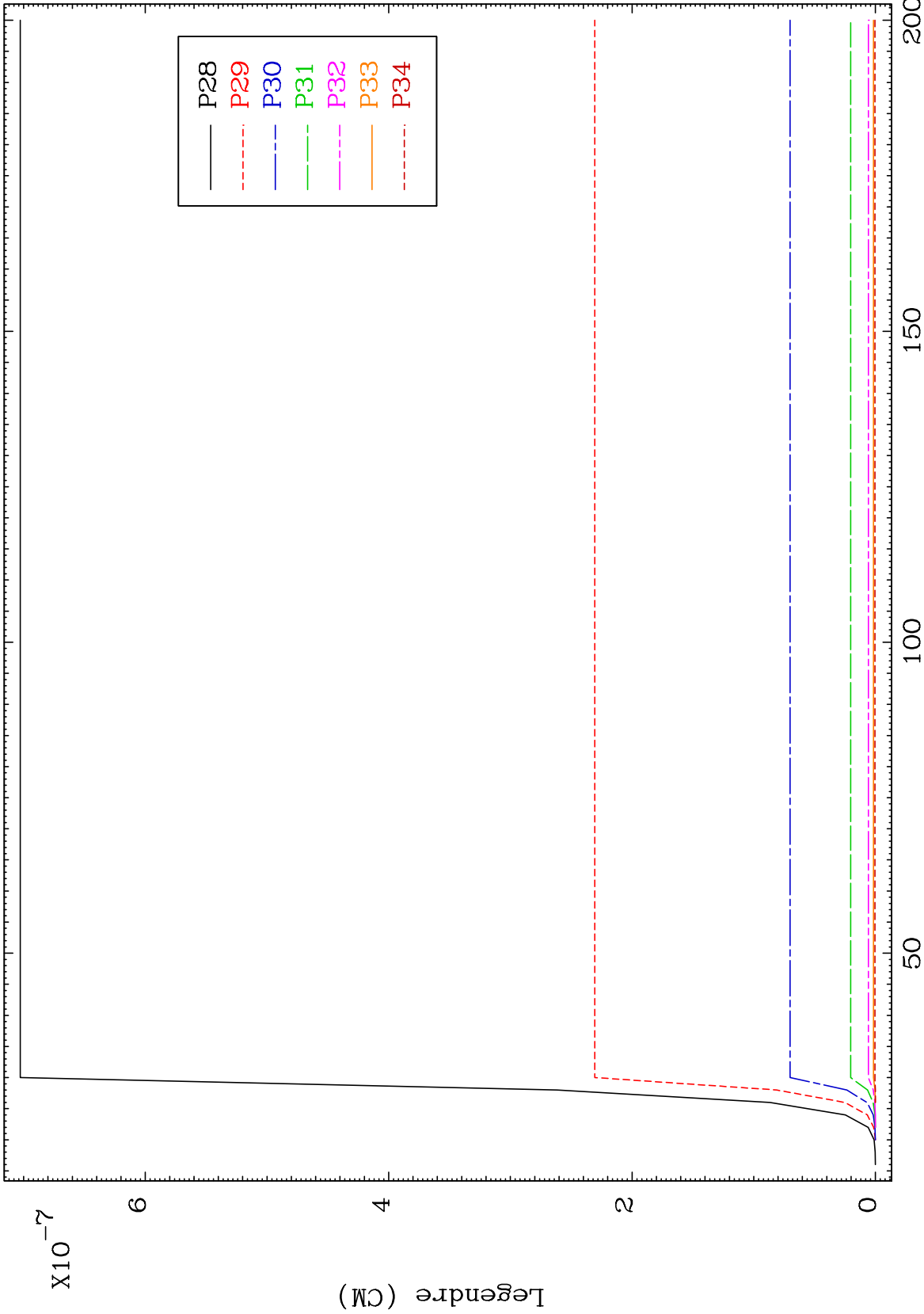
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



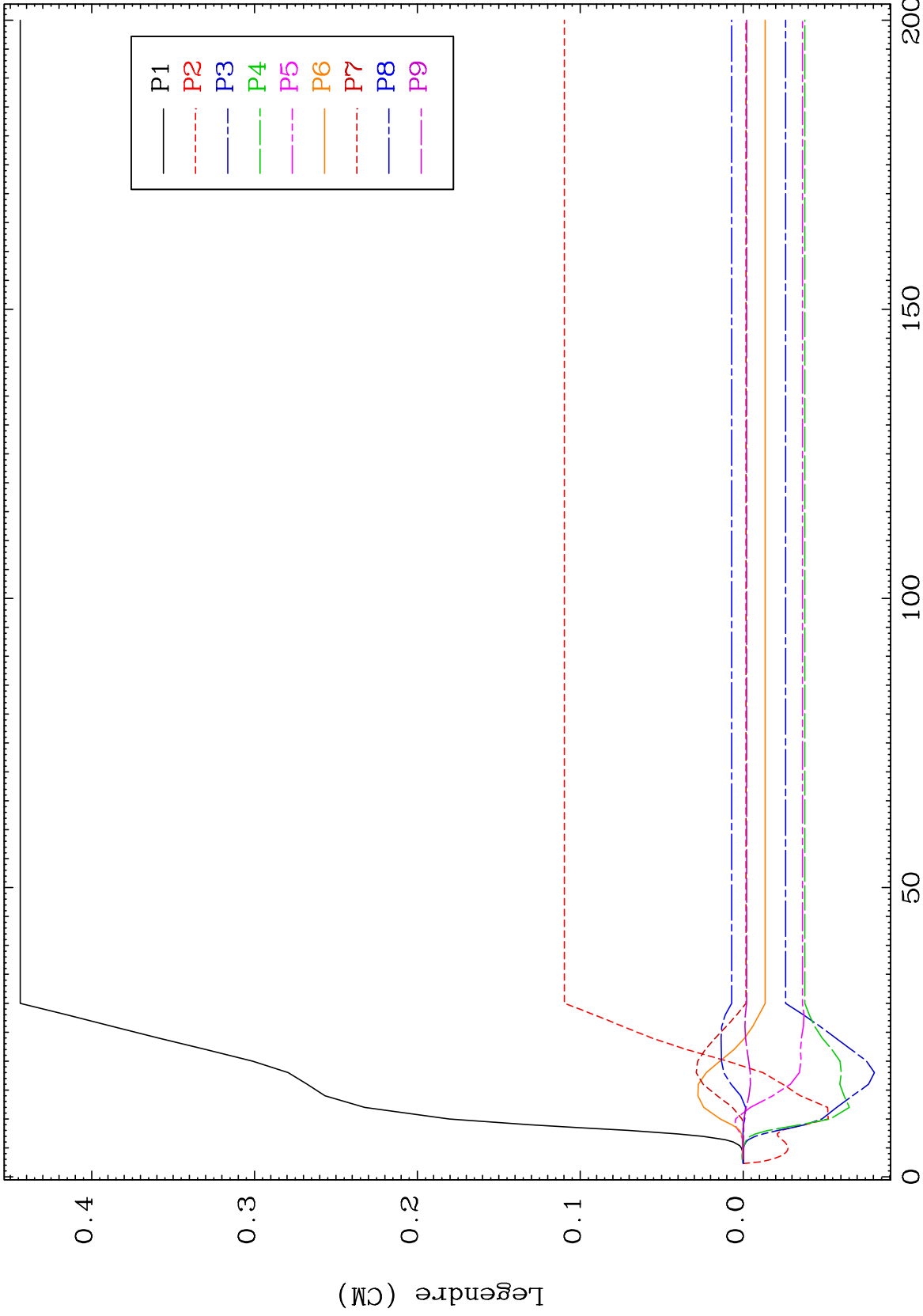
91

41-Nb-97

MAT 4137

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

41-Nb-97



92

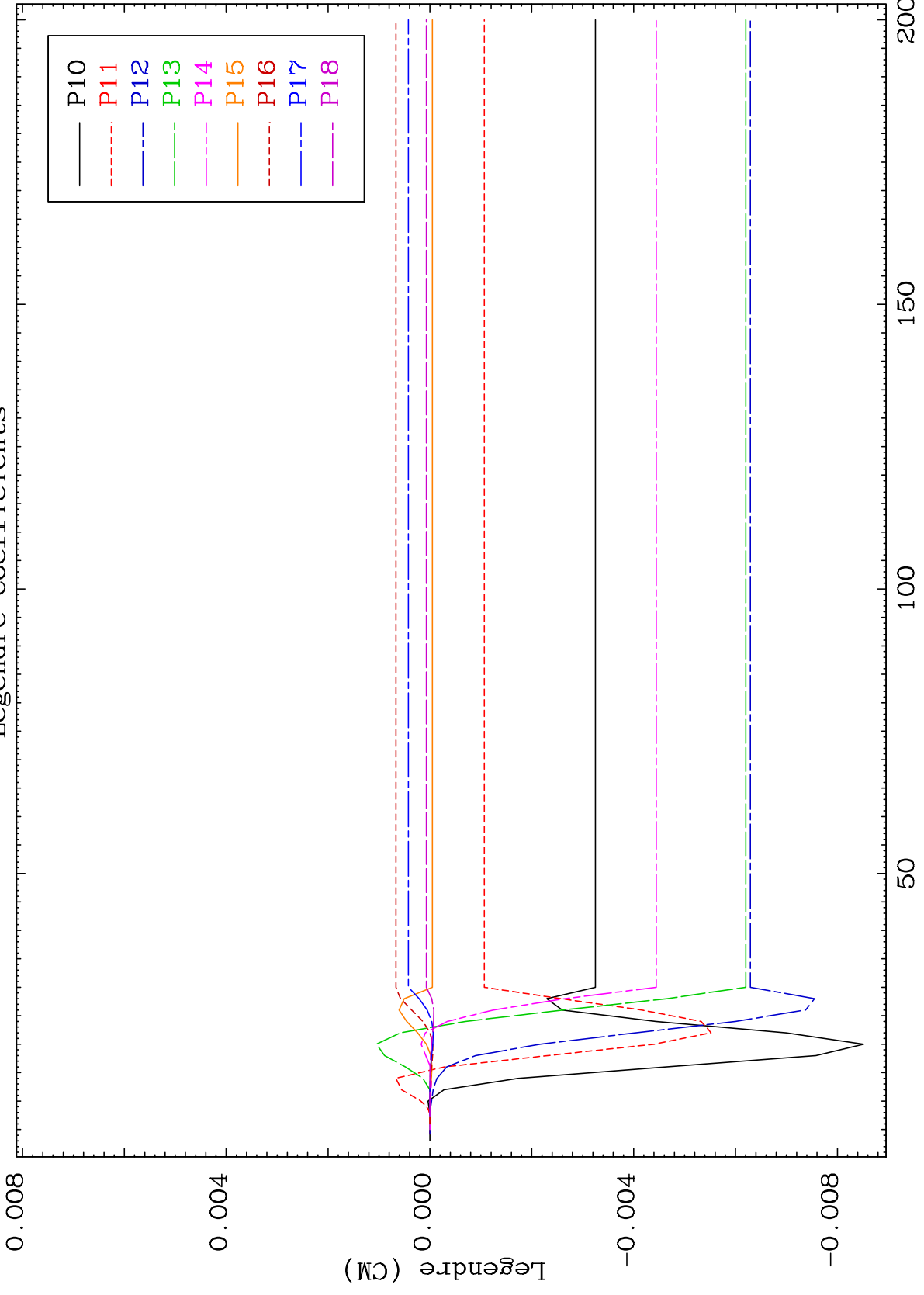
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



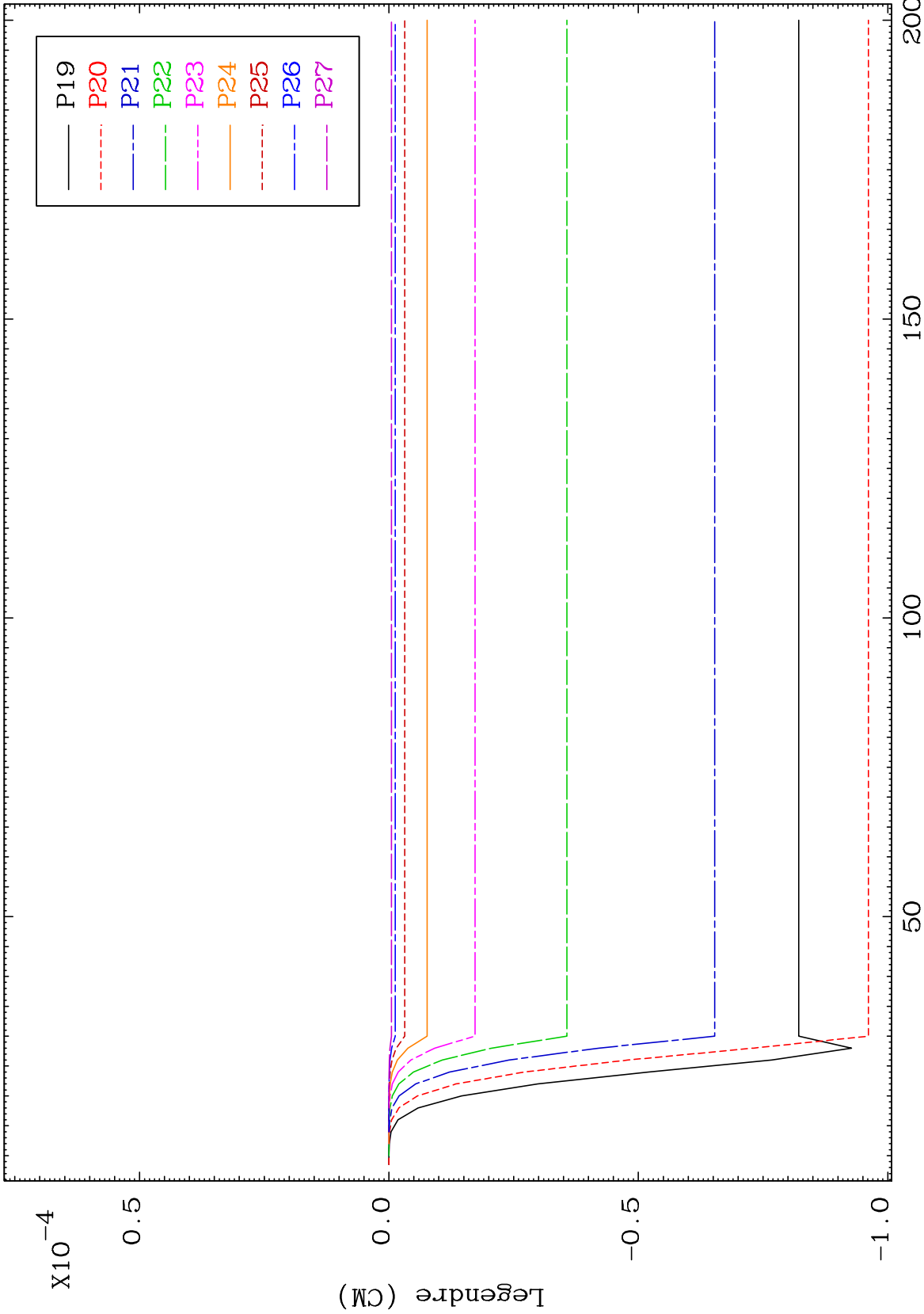
93

41-Nb-97

MAT 4137

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

41-Nb-97



94

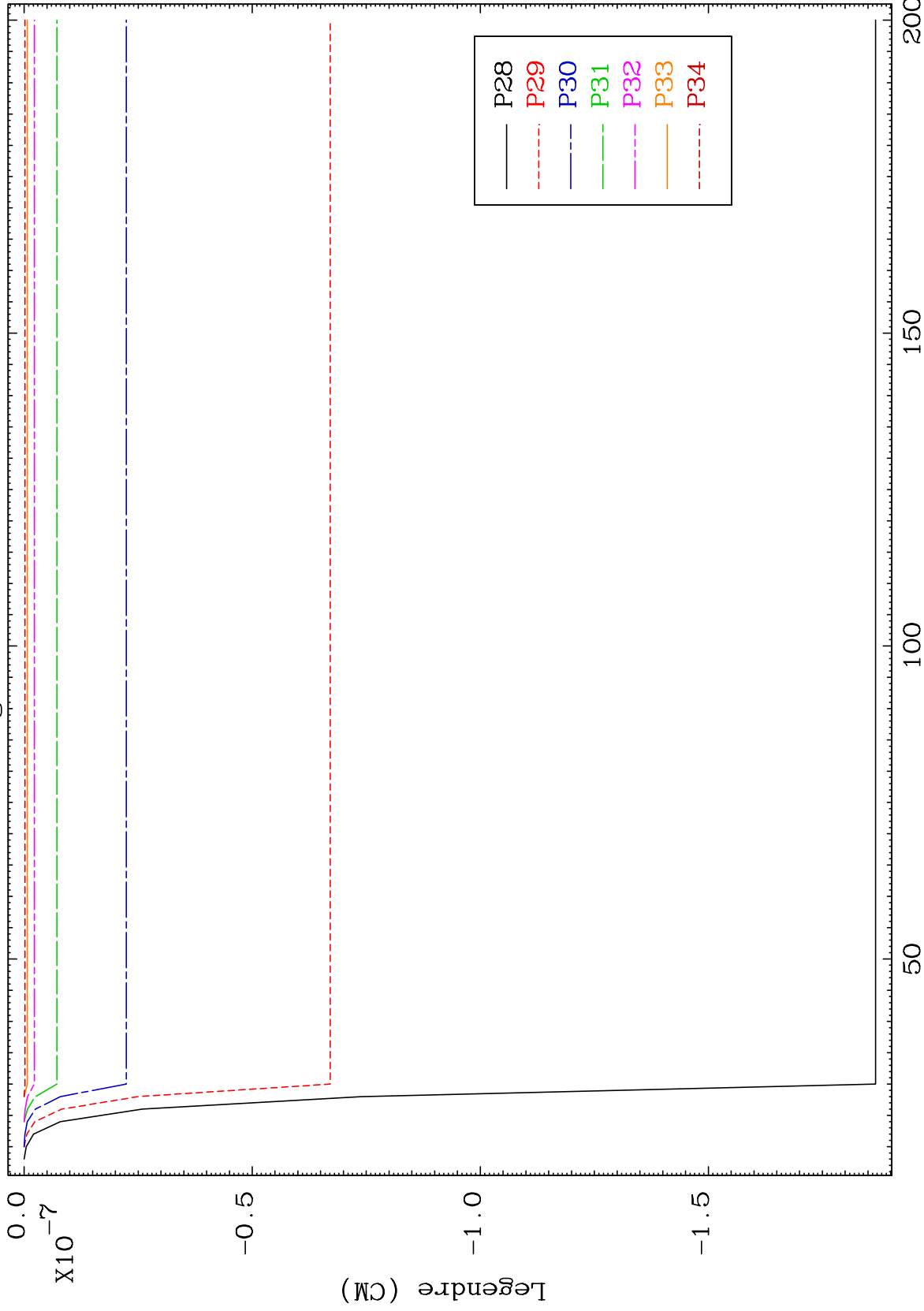
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



95

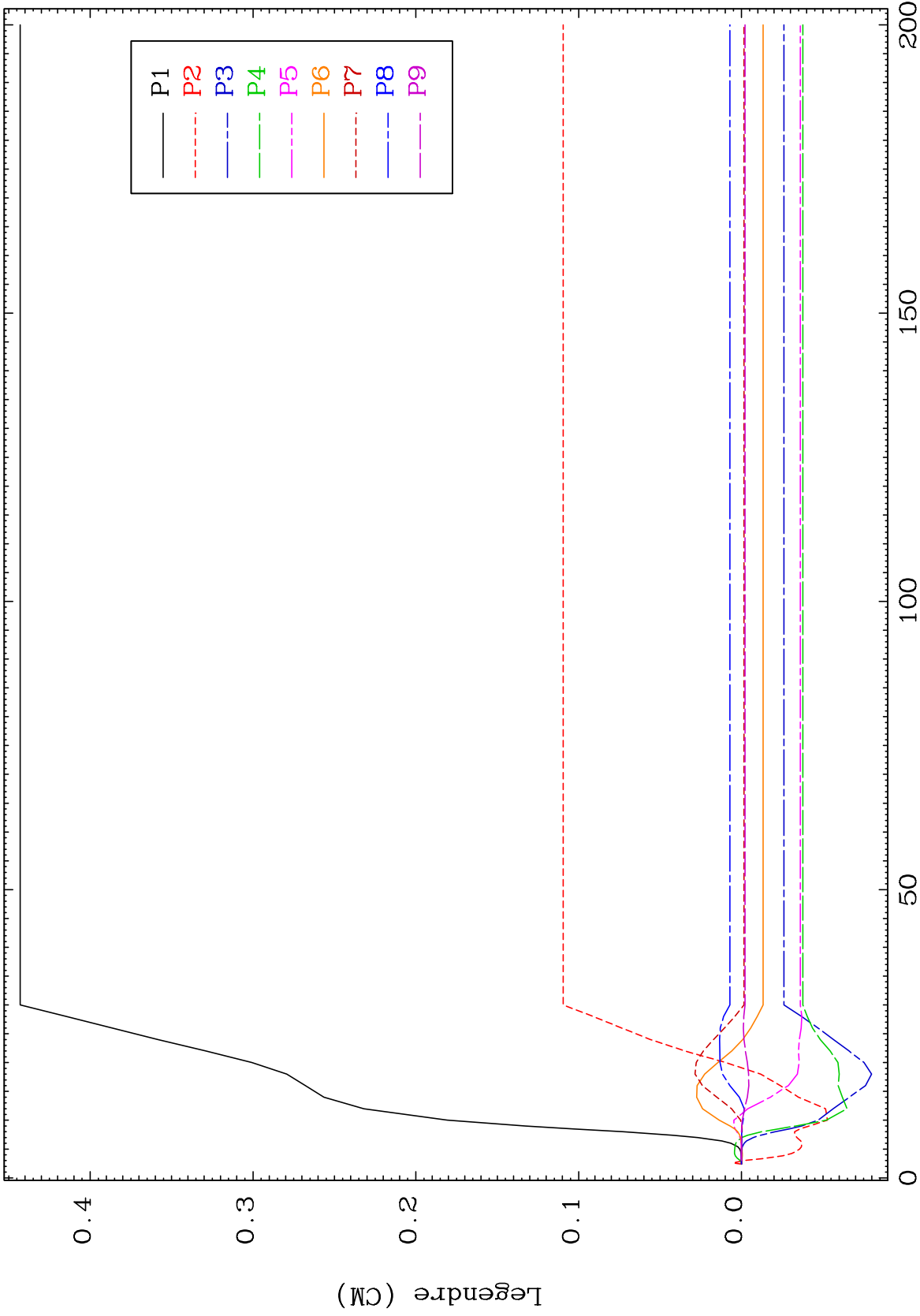
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



96

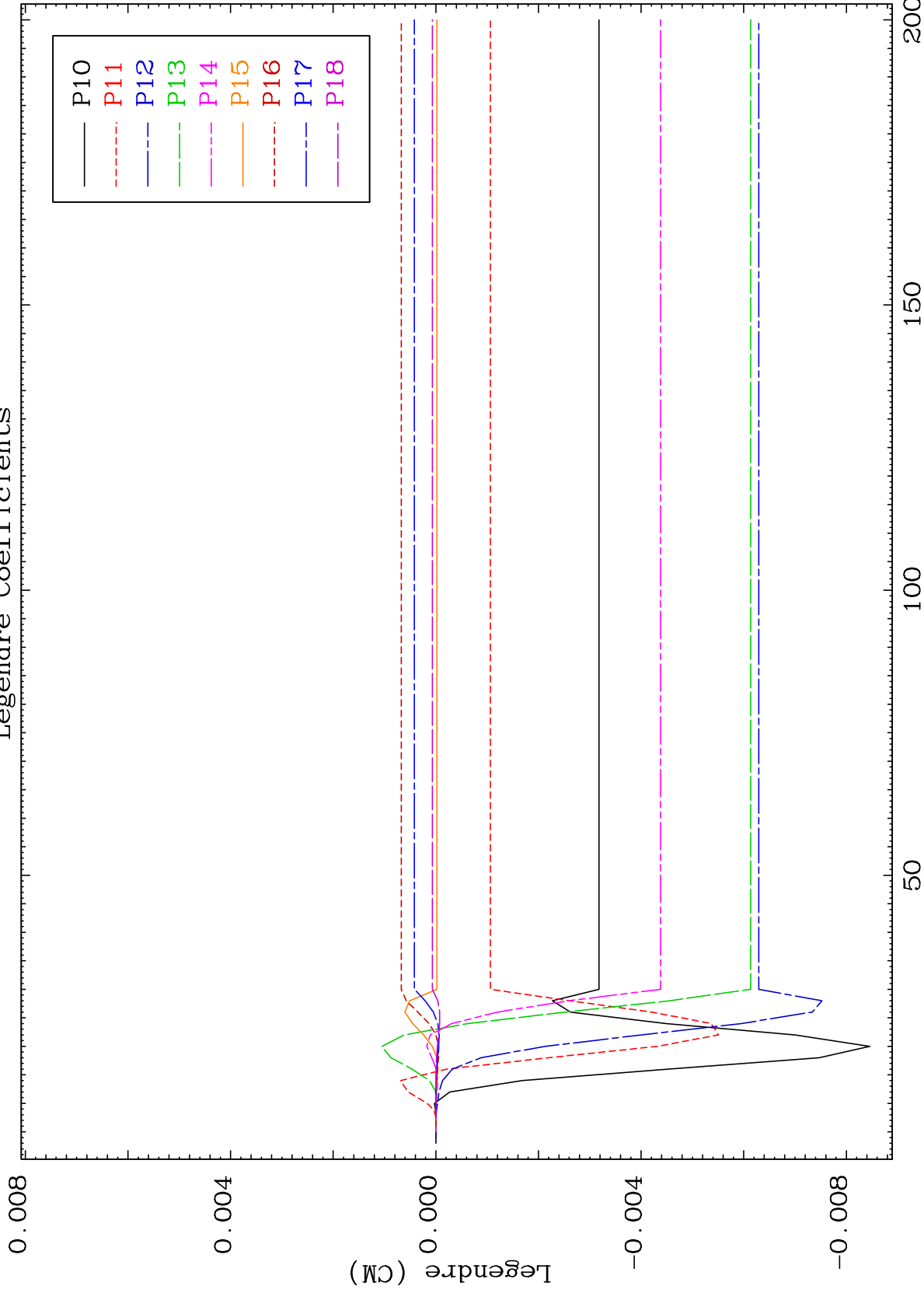
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



97

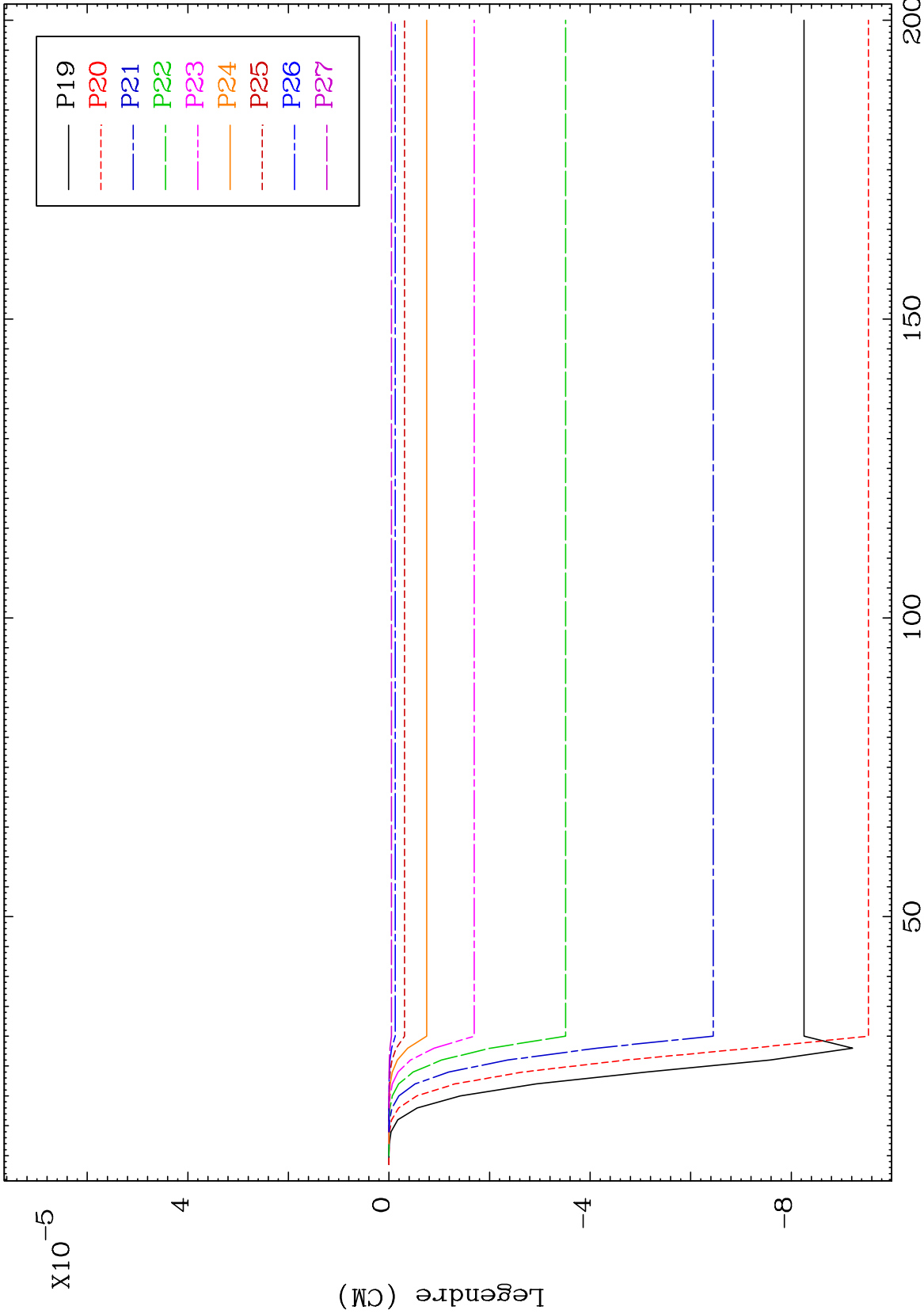
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



98

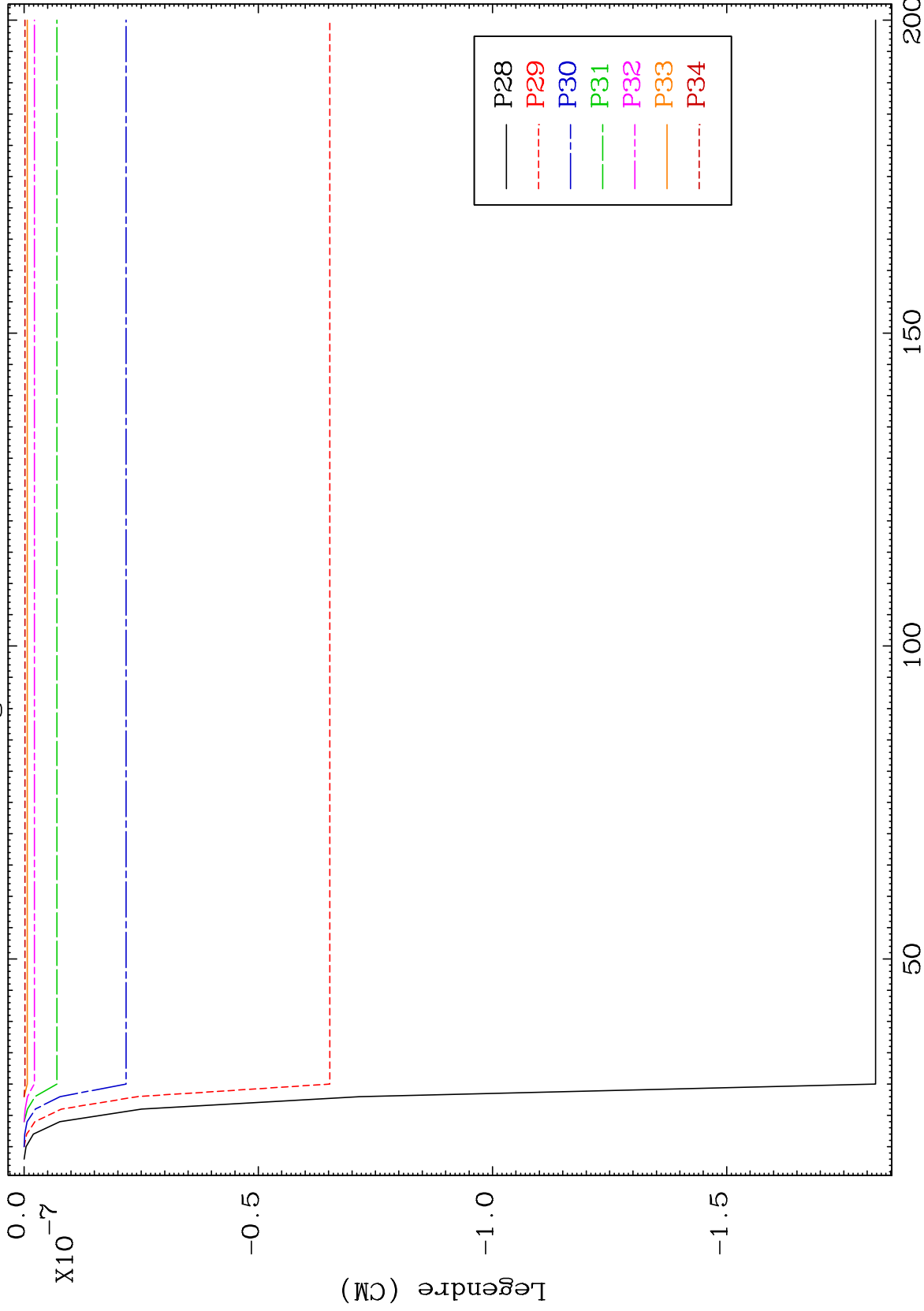
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



99

41-Nb-97

MAT 4137

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

41-Nb-97



41-Nb-97

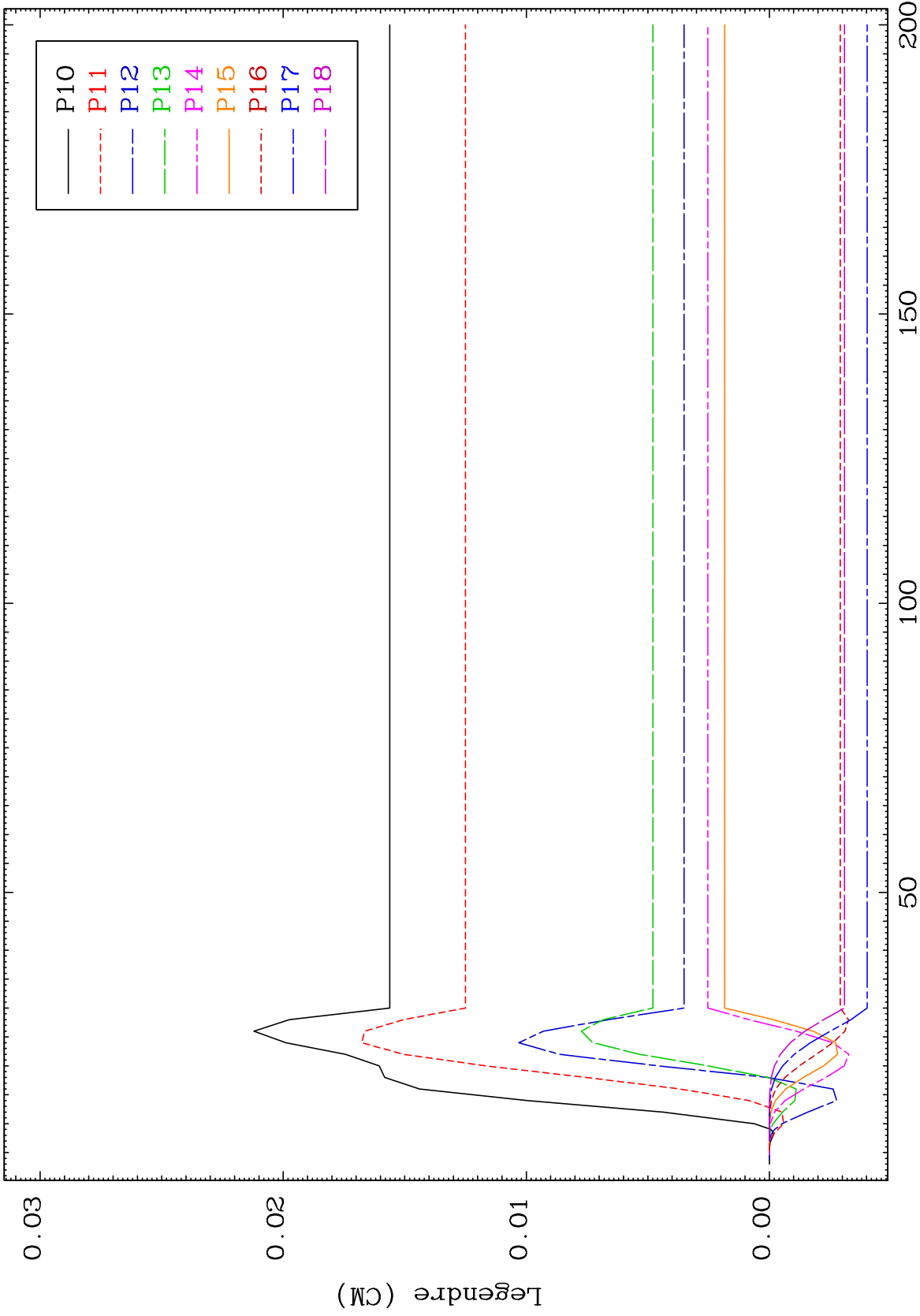
Incident Energy (MeV)

Legendre (CM)

MAT 4137

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

41-Nb-97



101

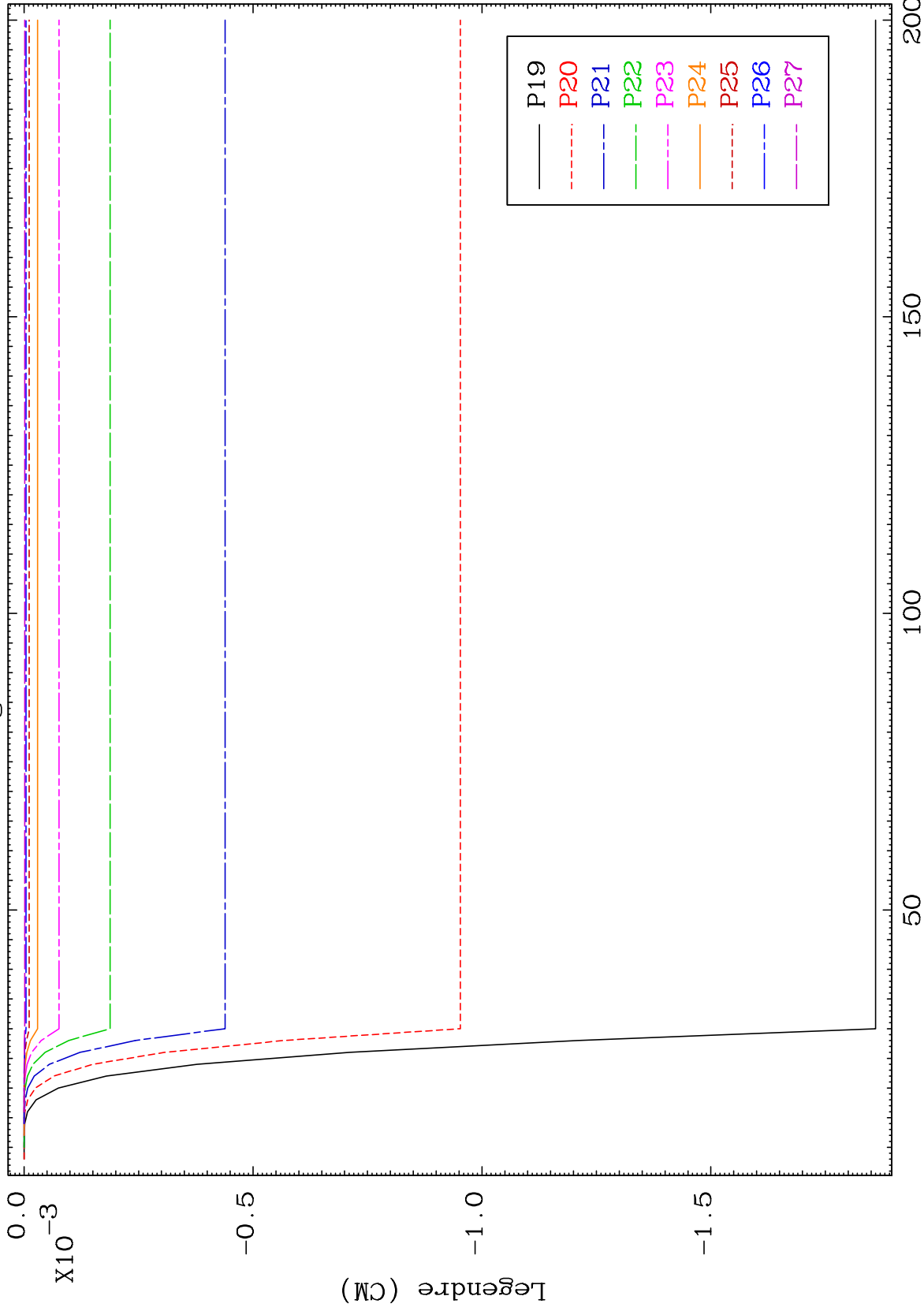
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



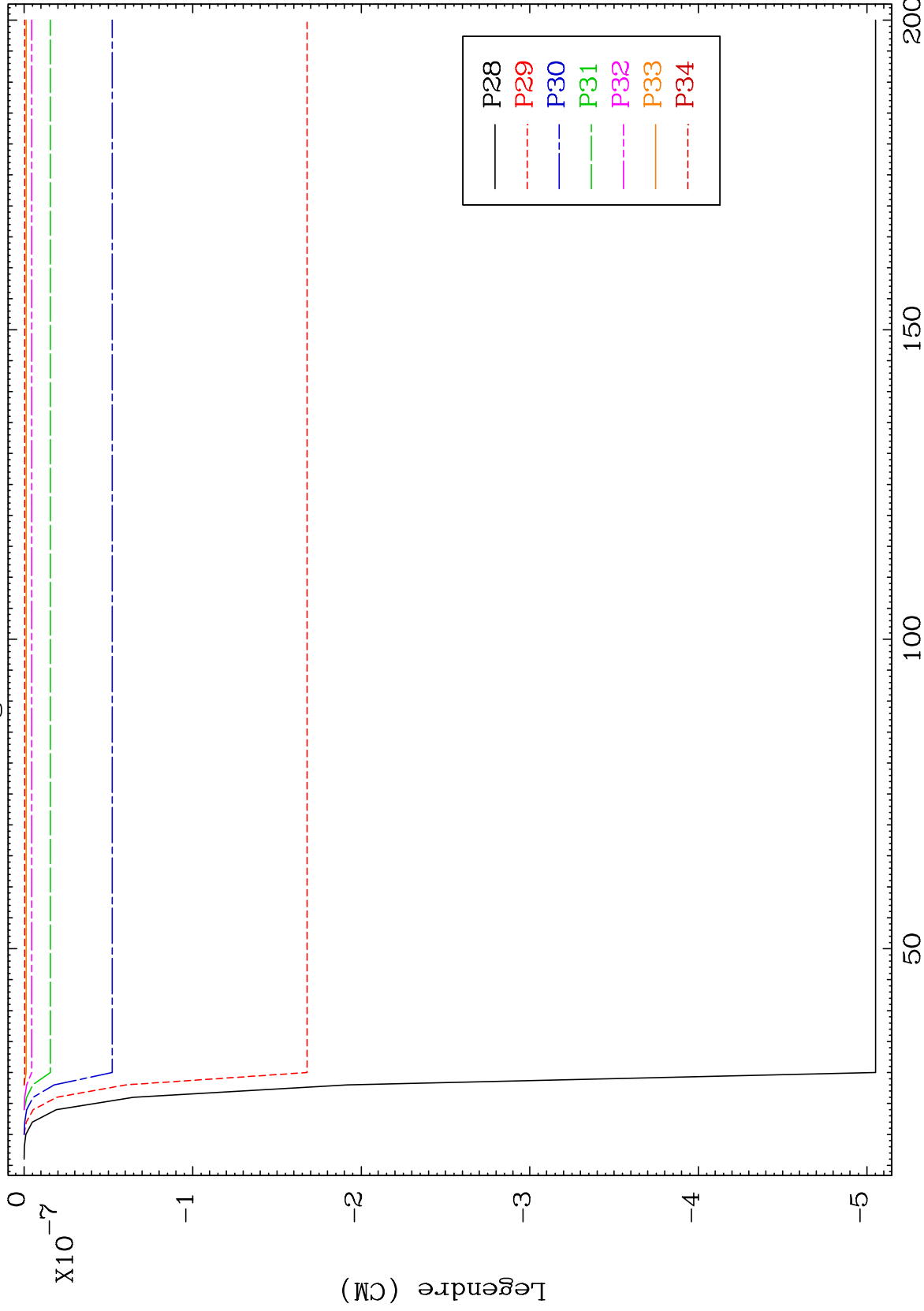
102

41-Nb-97

MAT 4137

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

41-Nb-97



41-Nb-97

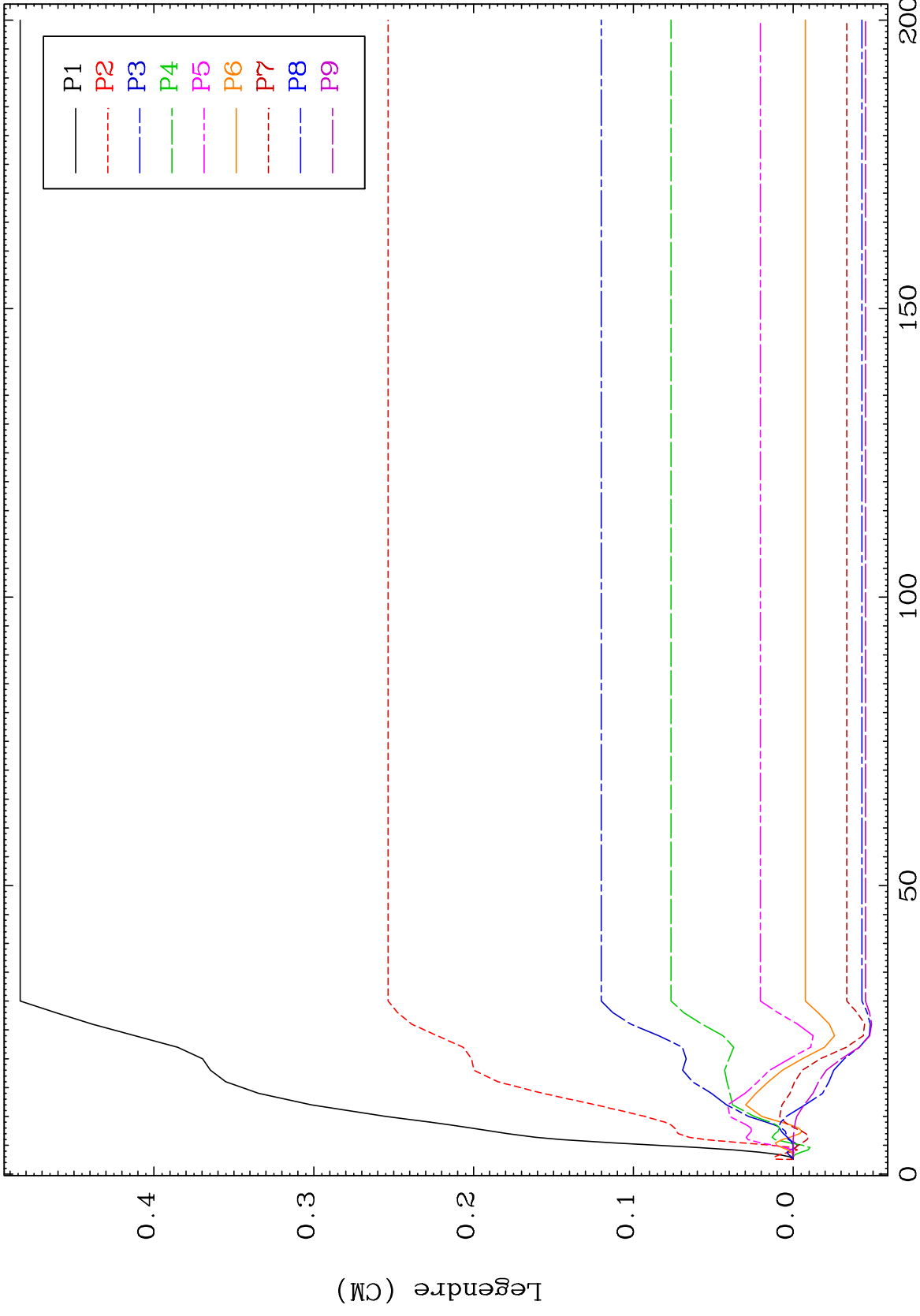
Incident Energy (MeV)

103

MAT 4137

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

41-Nb-97



104

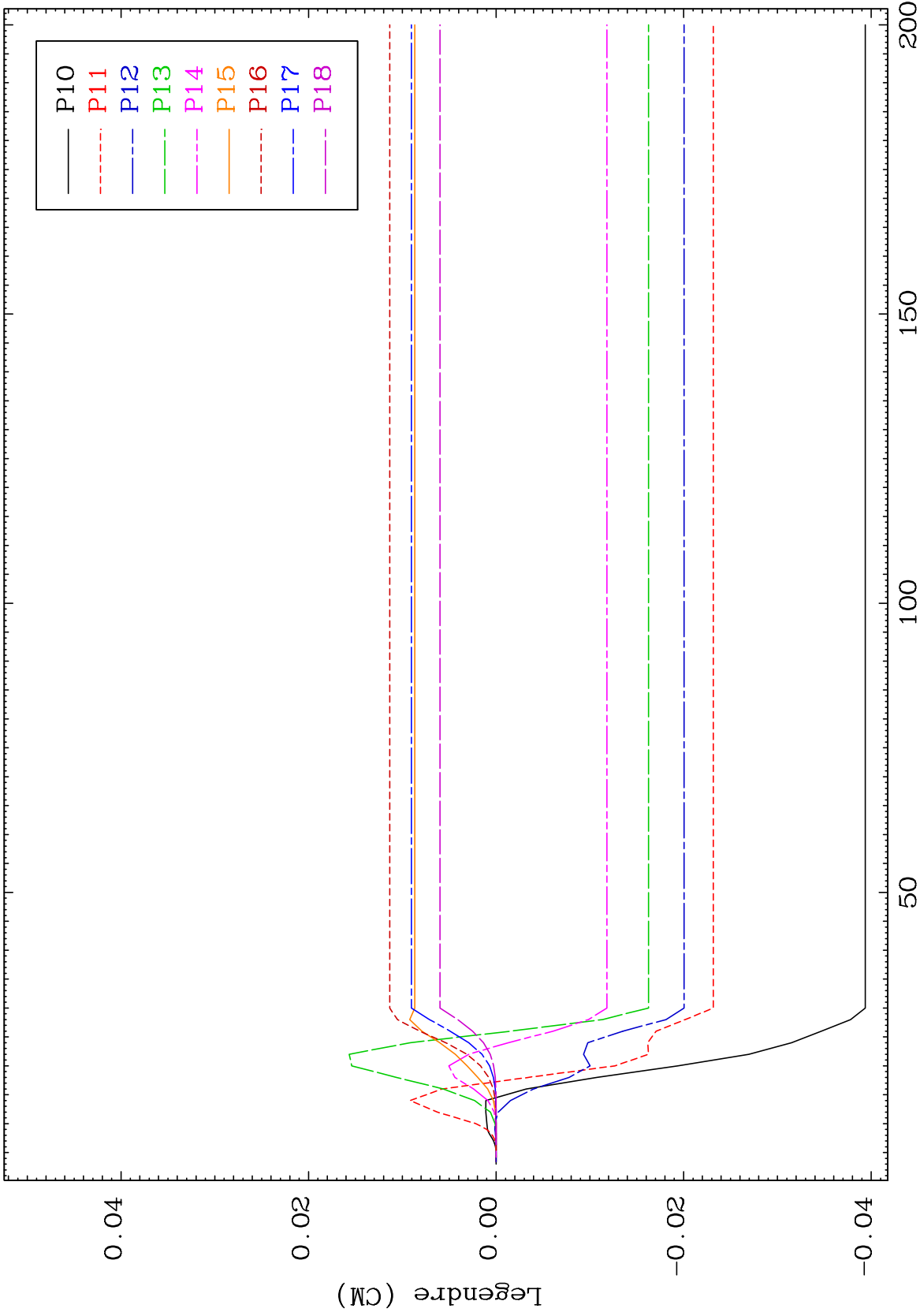
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



105

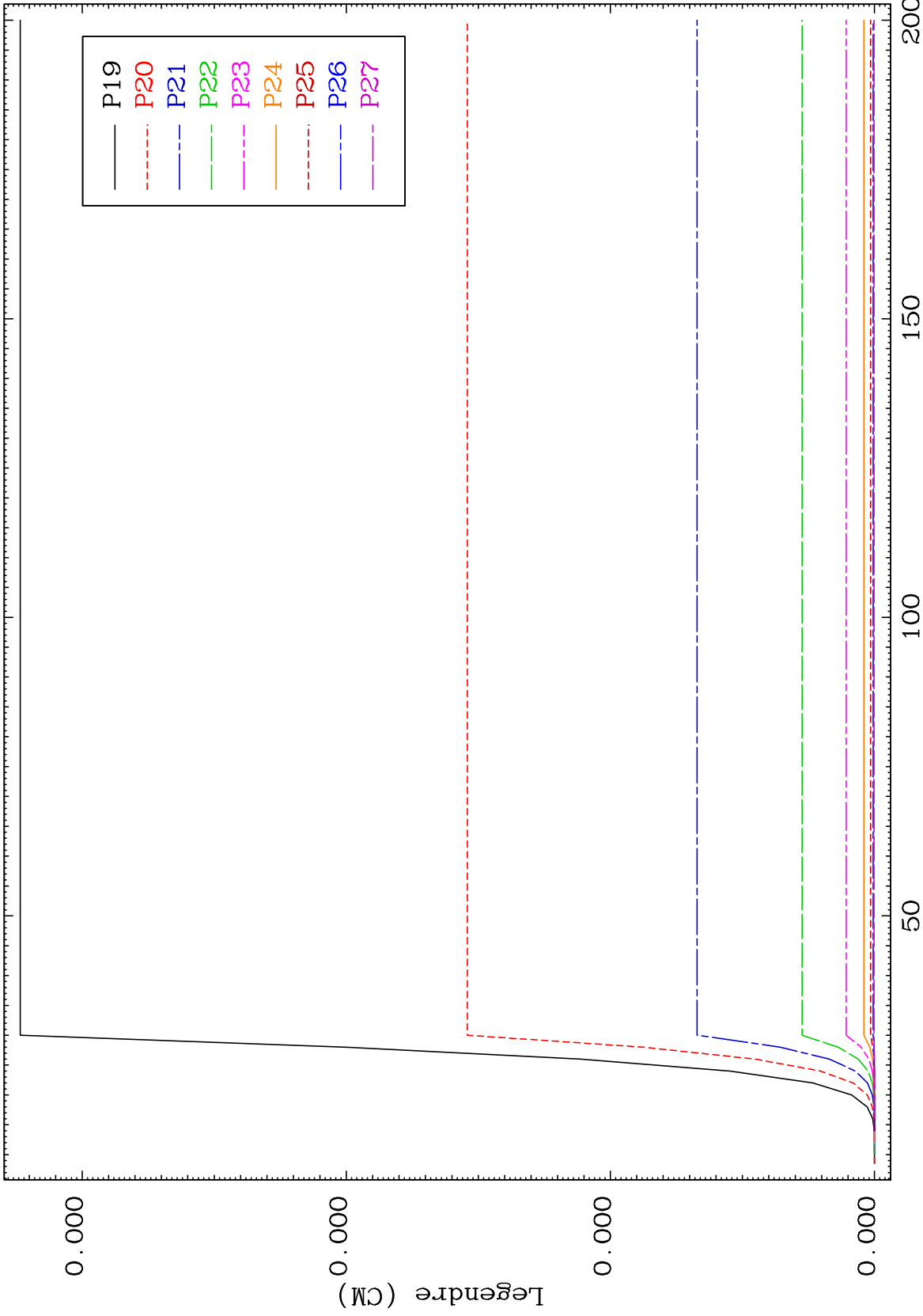
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



106

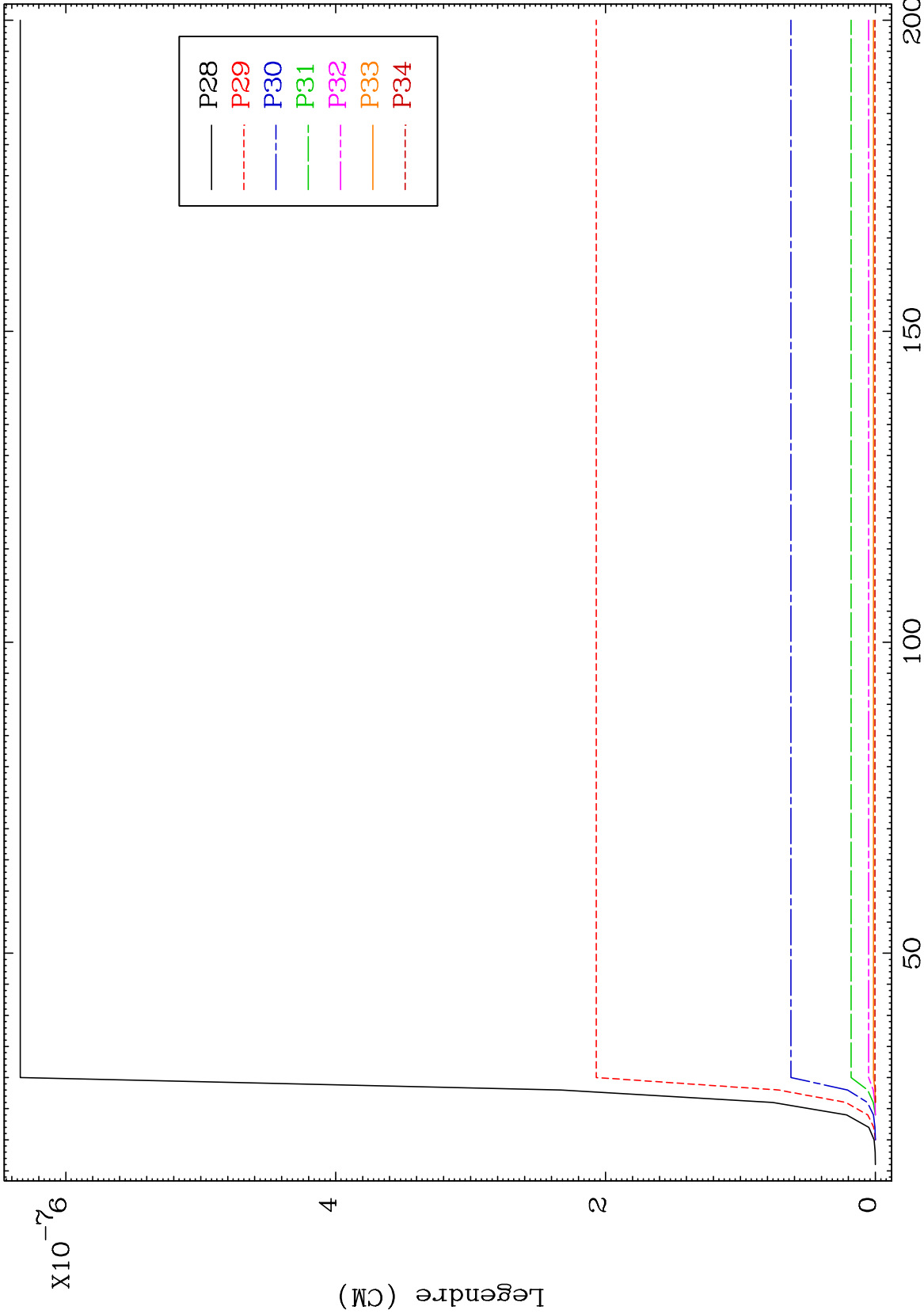
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



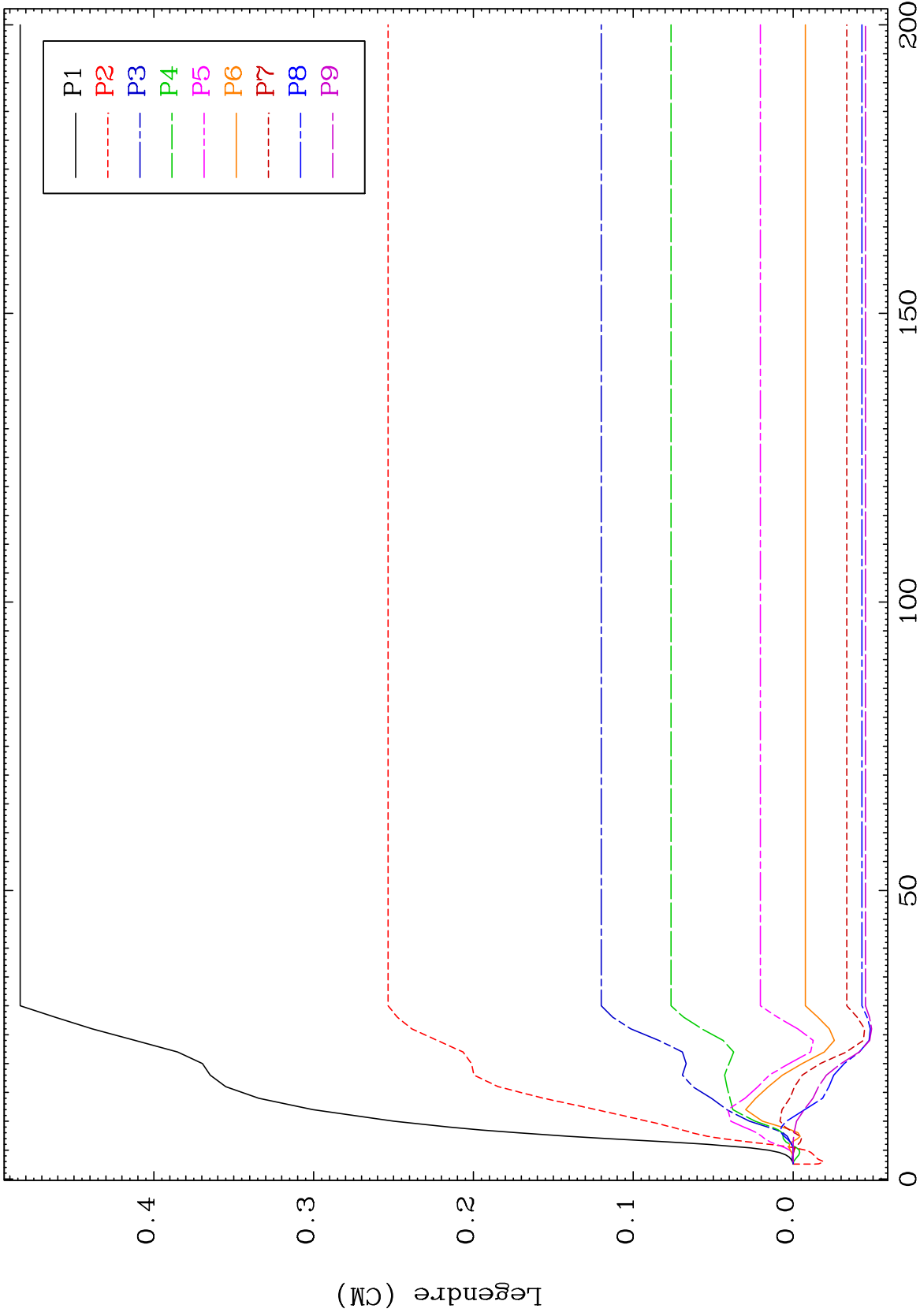
107

41-Nb-97

MAT 4137

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

41-Nb-97



108

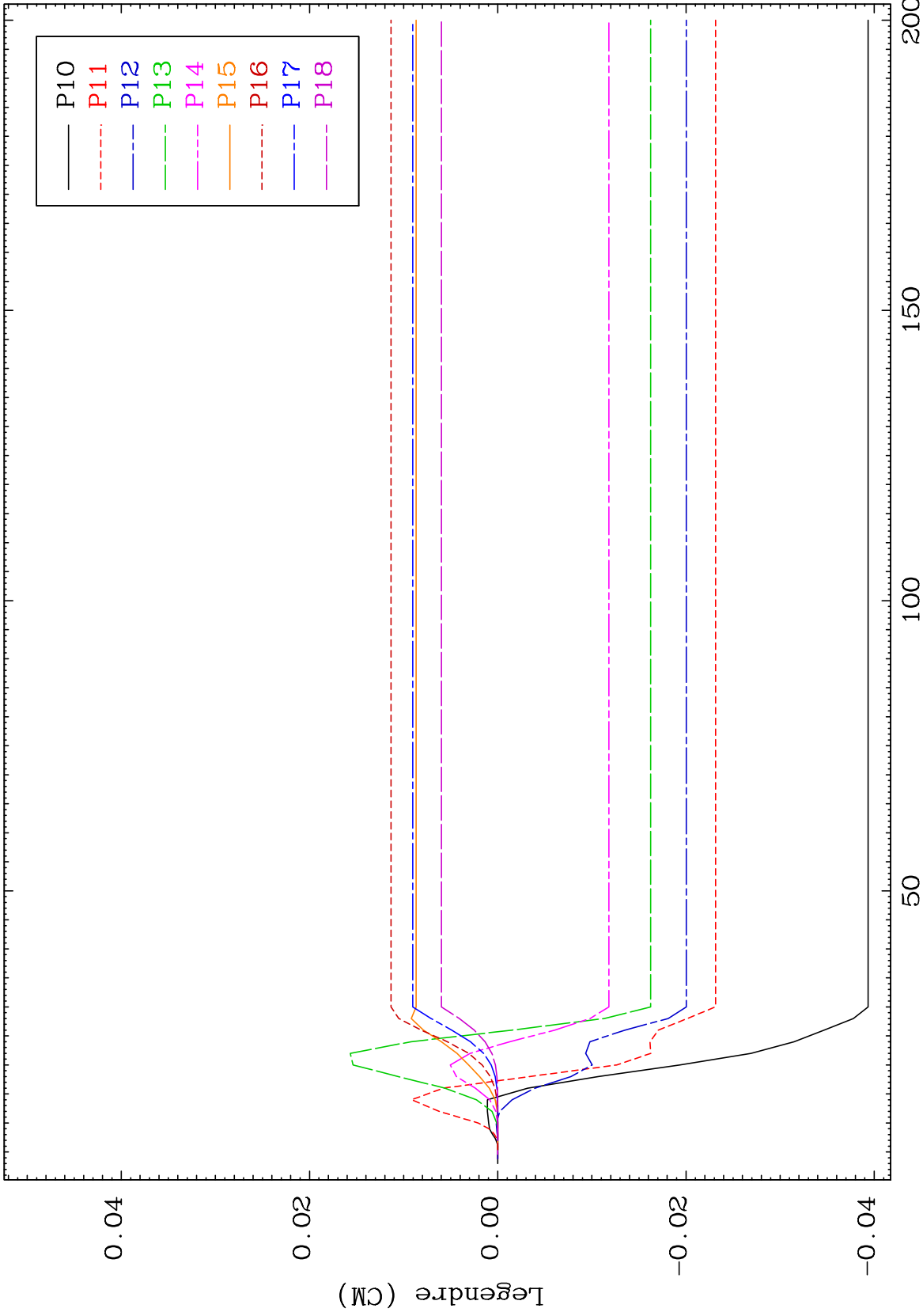
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



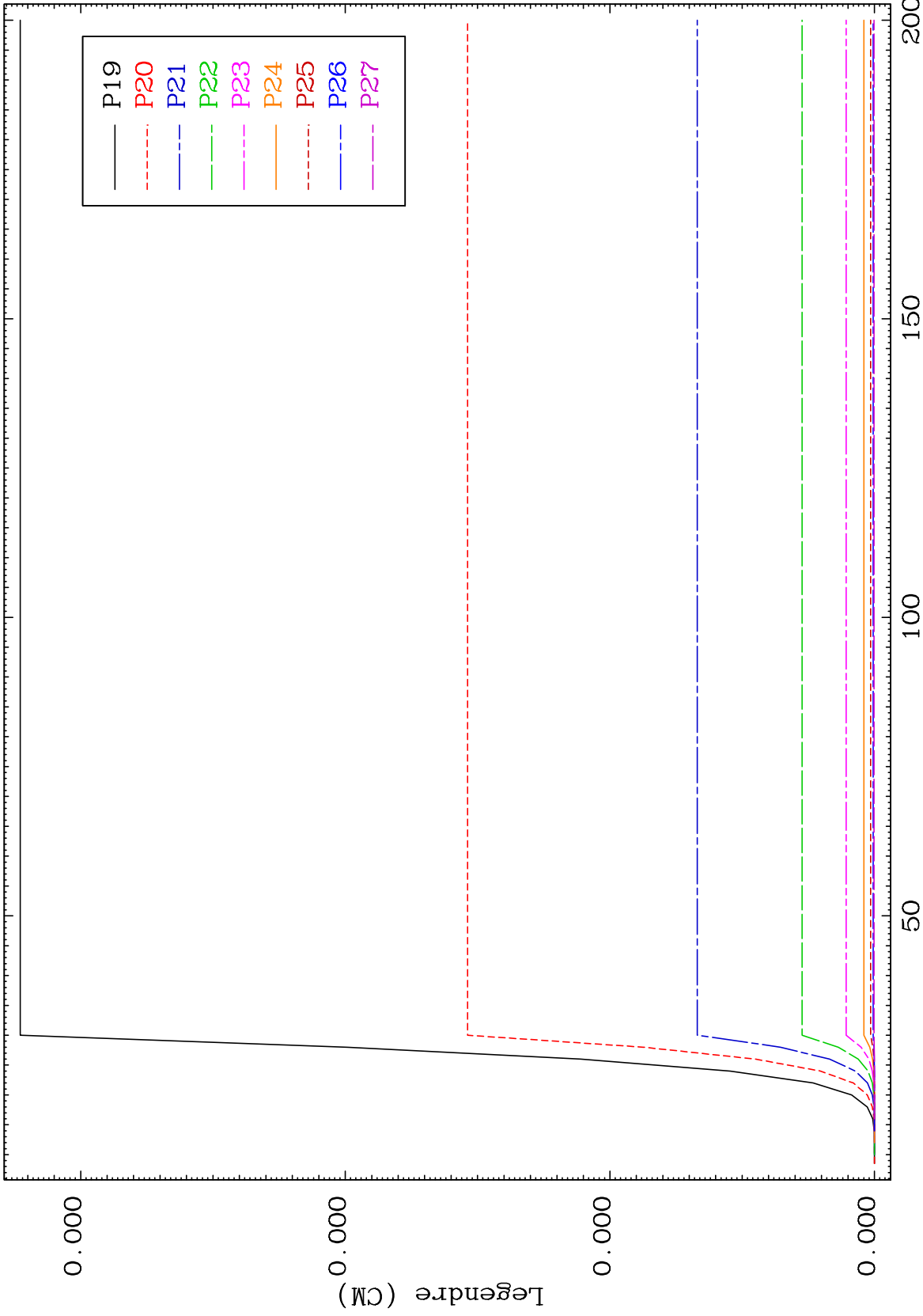
109

41-Nb-97

MAT 4137

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

41-Nb-97



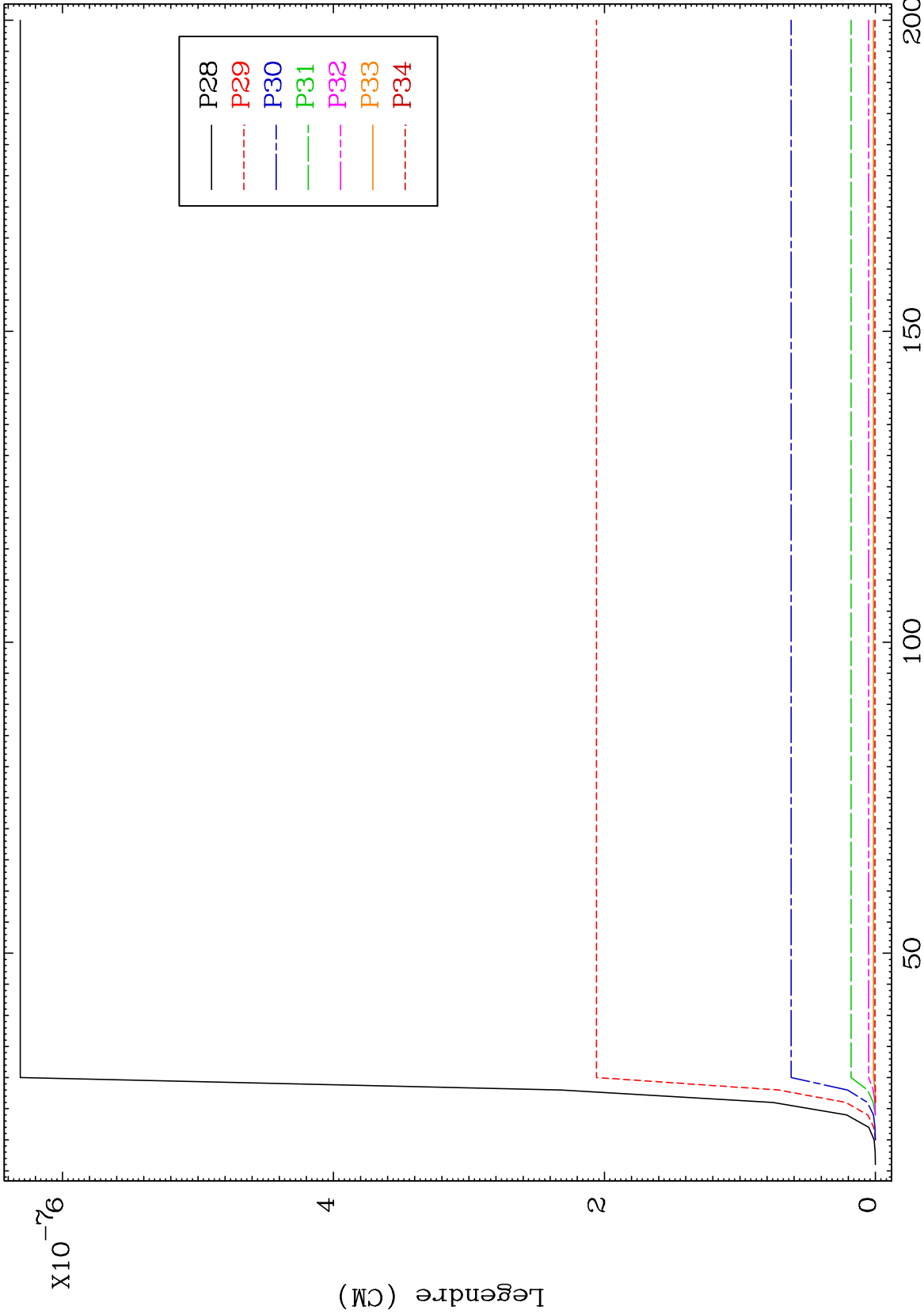
110

41-Nb-97

MAT 4137

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

41-Nb-97



111

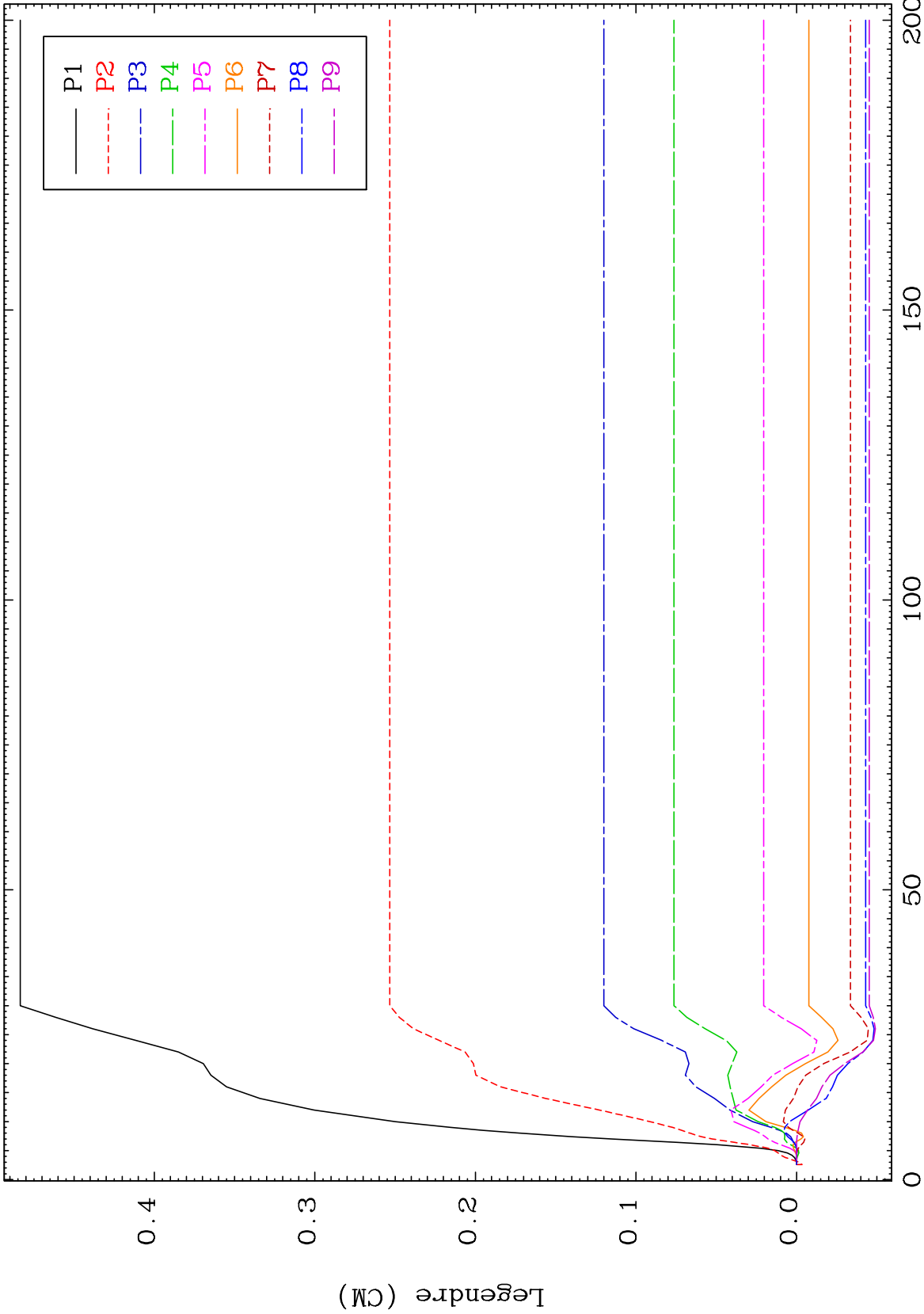
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



112

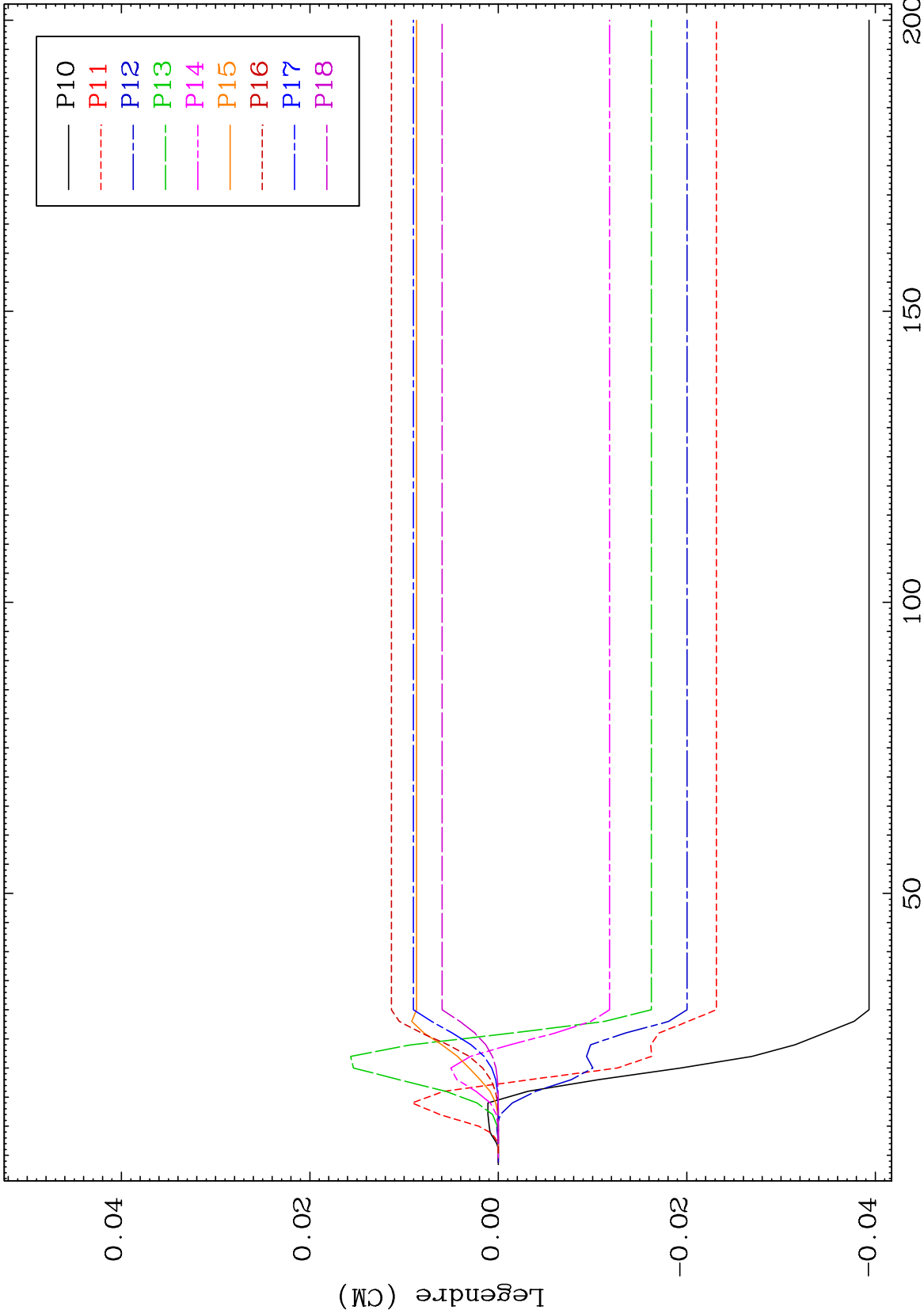
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



113

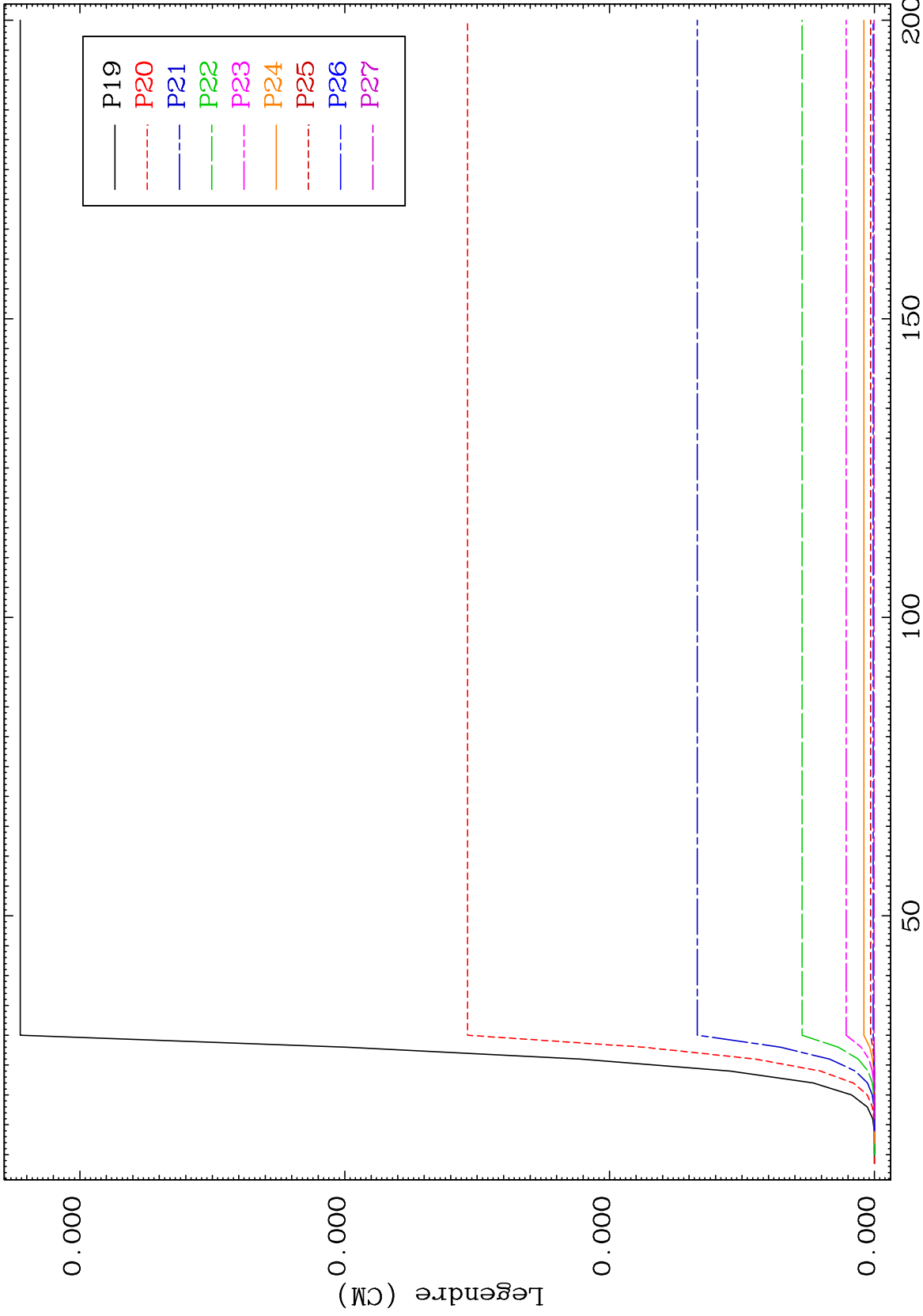
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



114

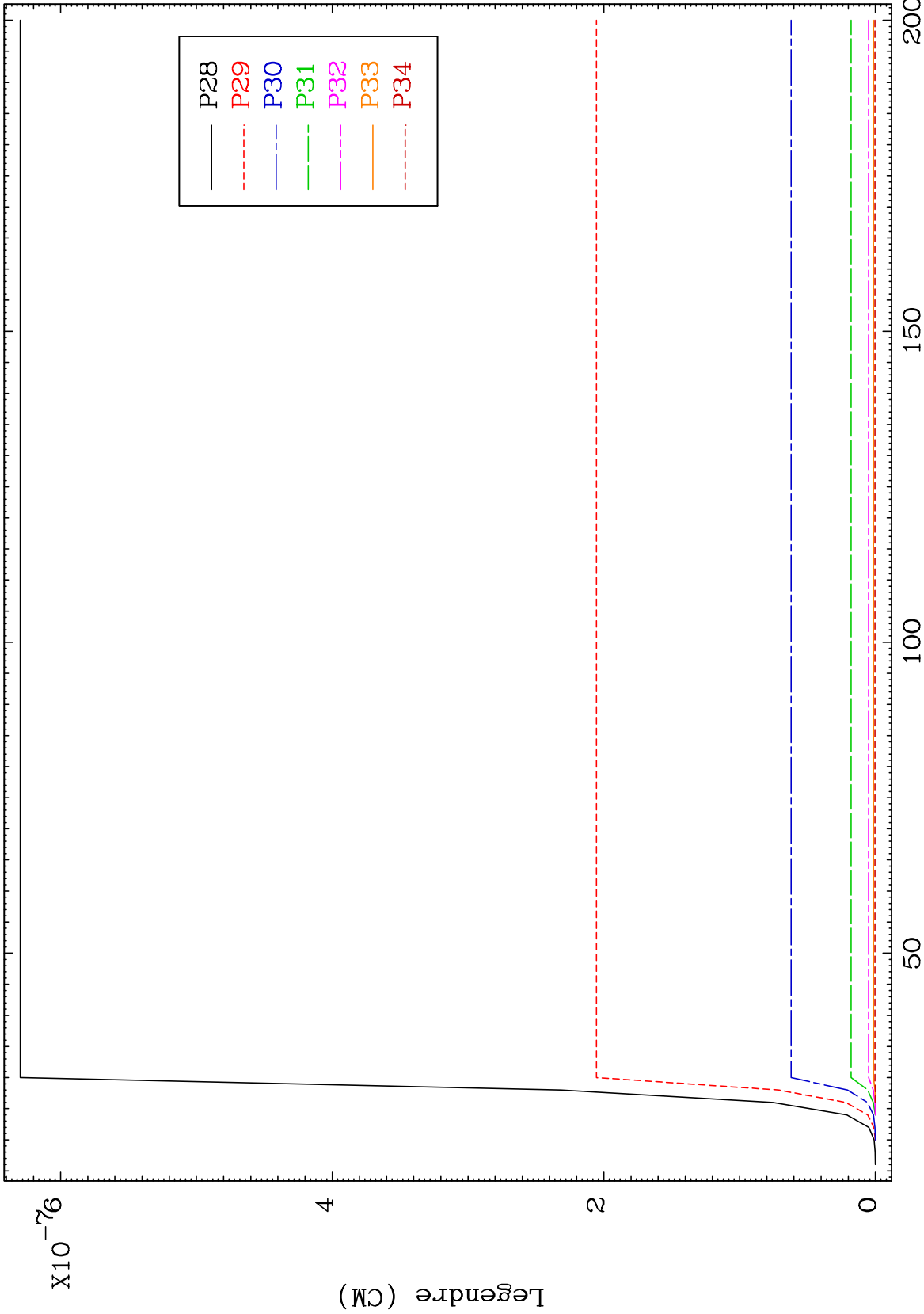
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



115

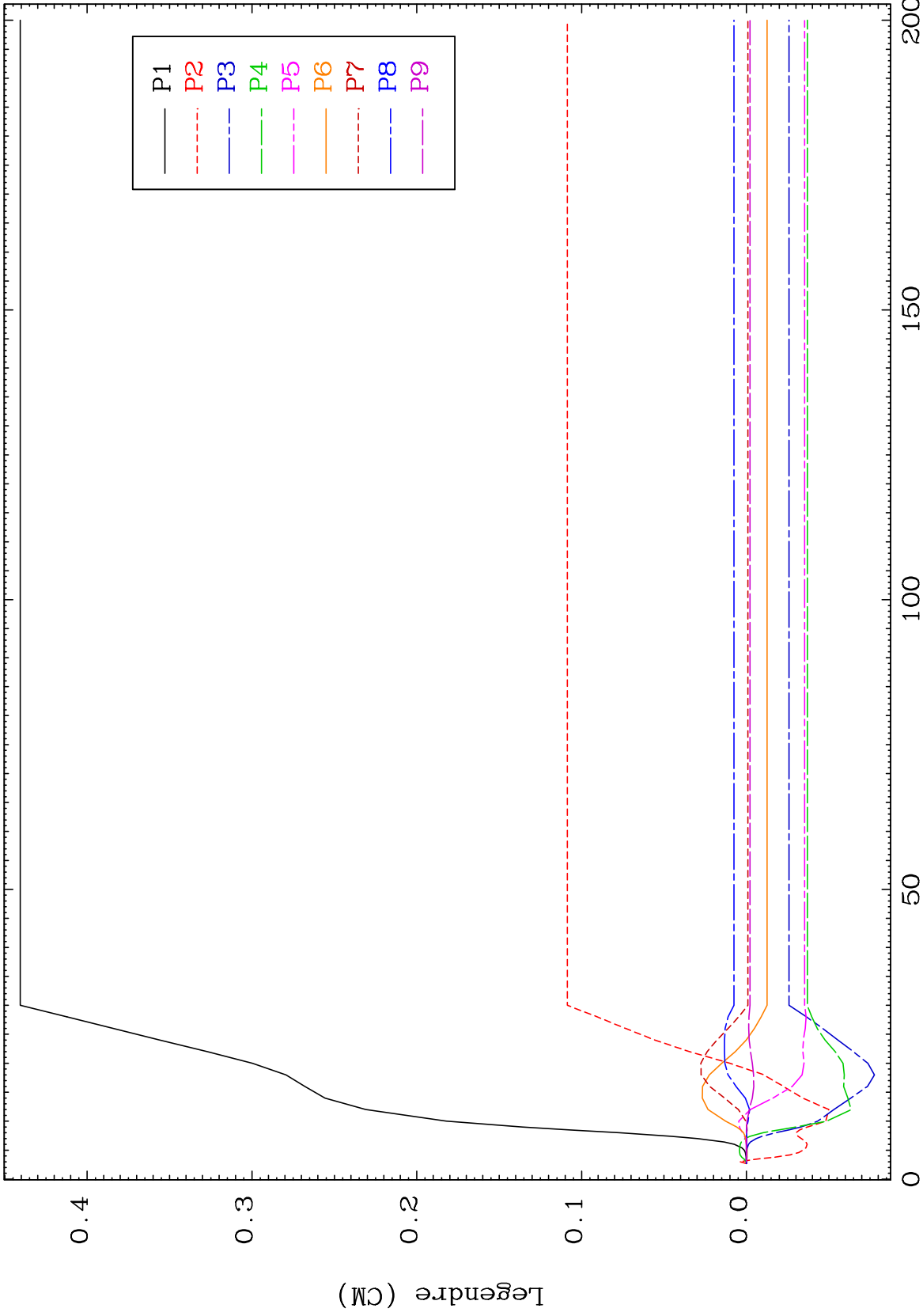
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



116

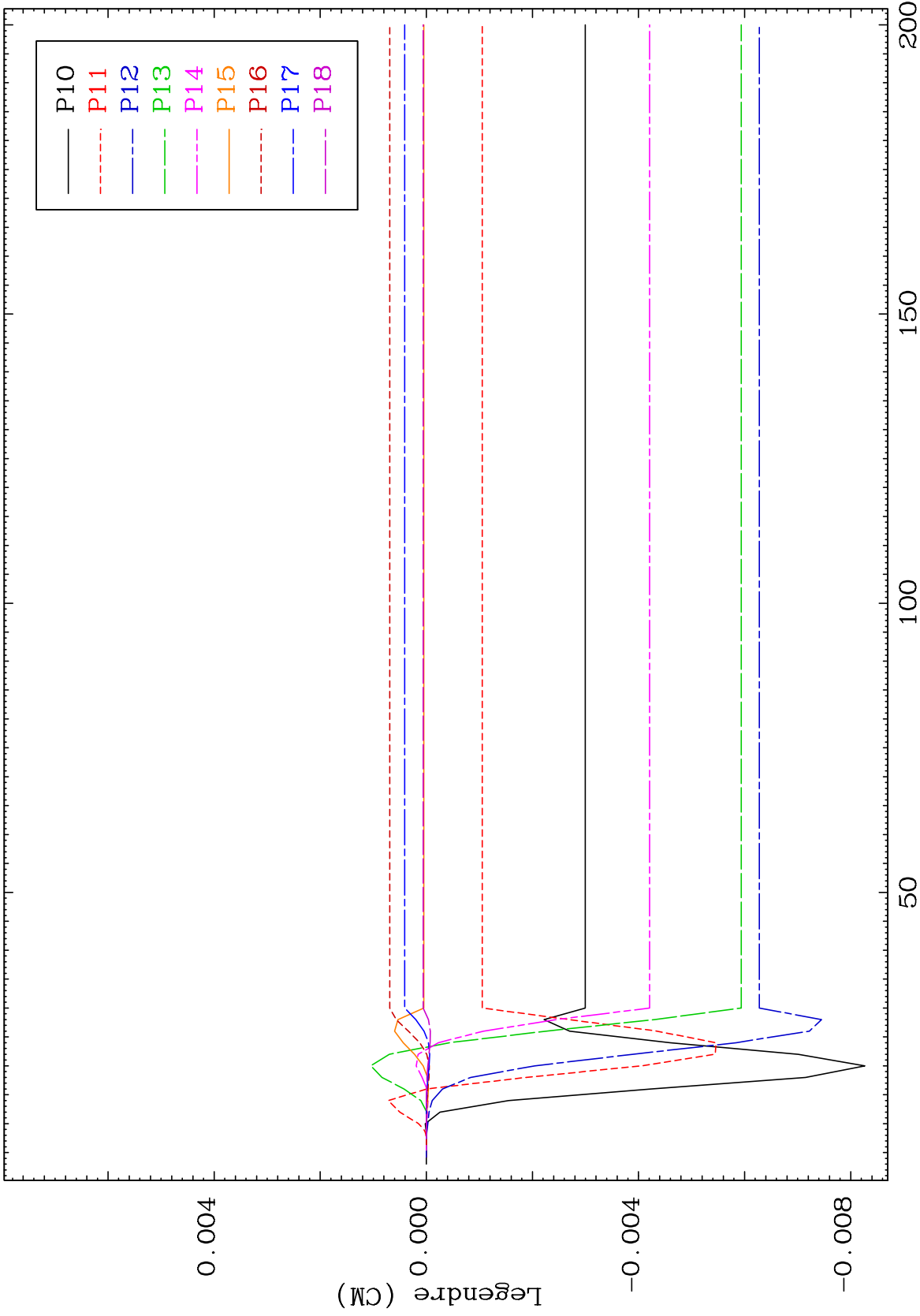
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



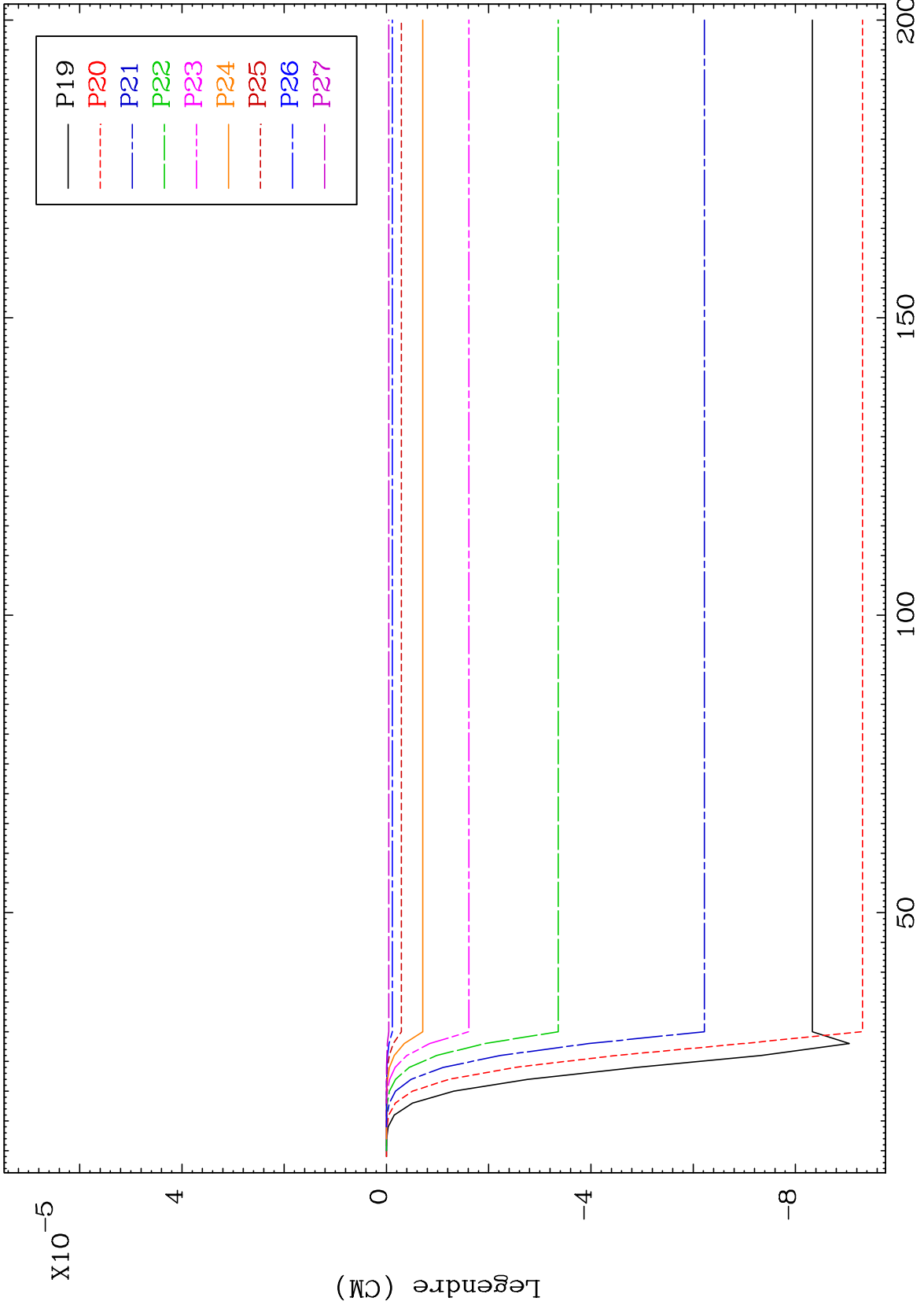
117

41-Nb-97

MAT 4137

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

41-Nb-97



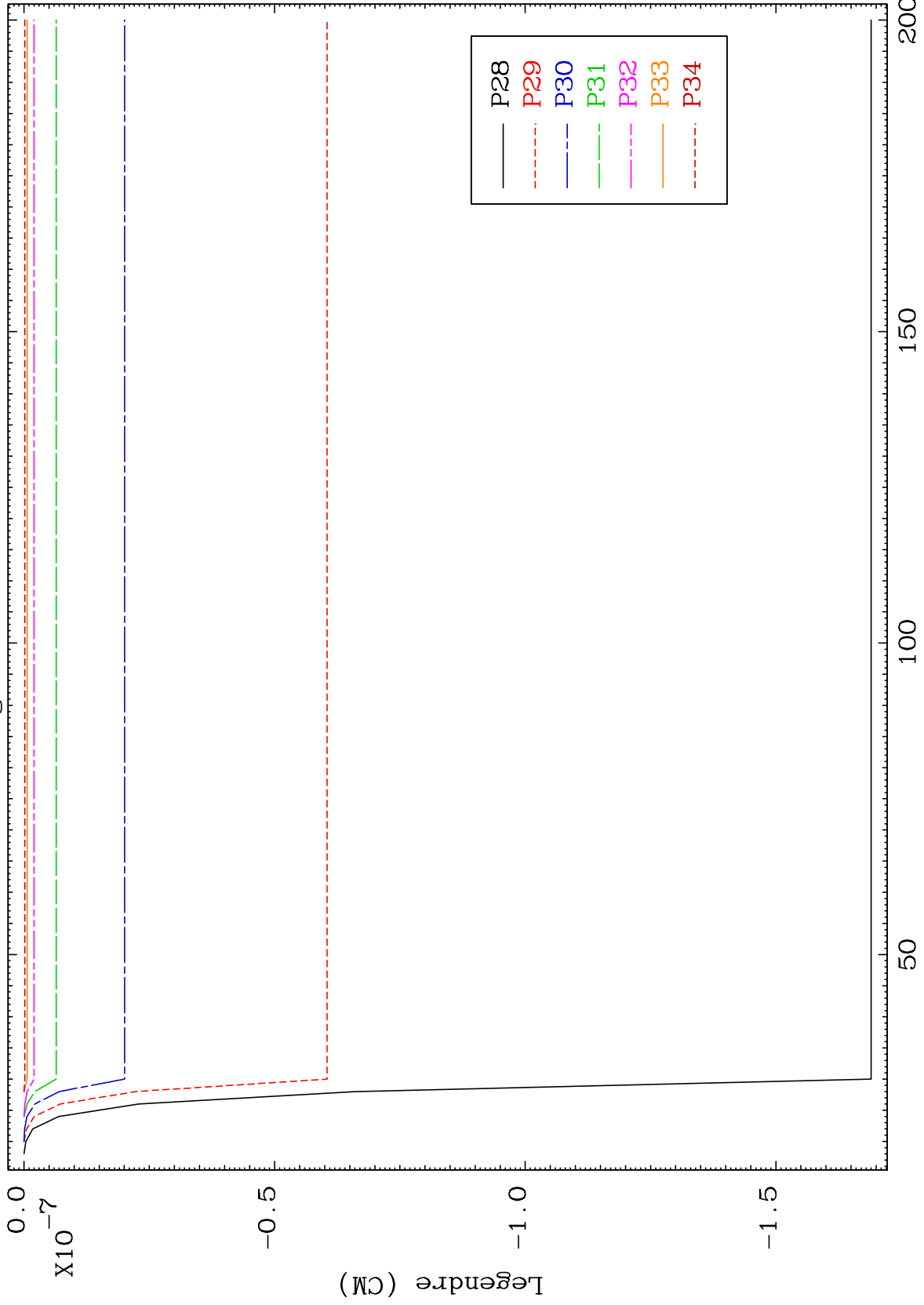
118

41-Nb-97

MAT 4137

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

41-Nb-97



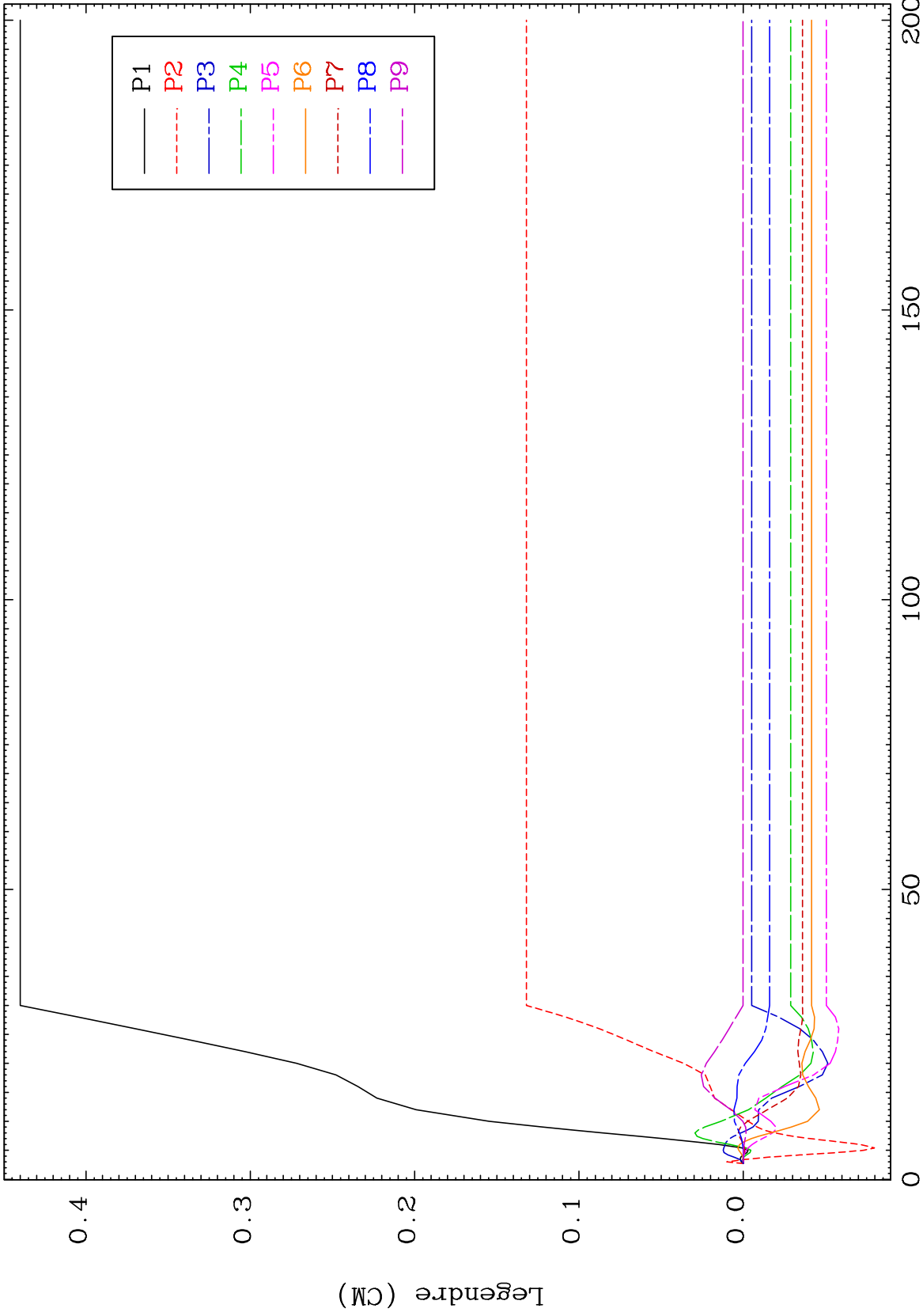
119

41-Nb-97

MAT 4137

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

41-Nb-97



41-Nb-97

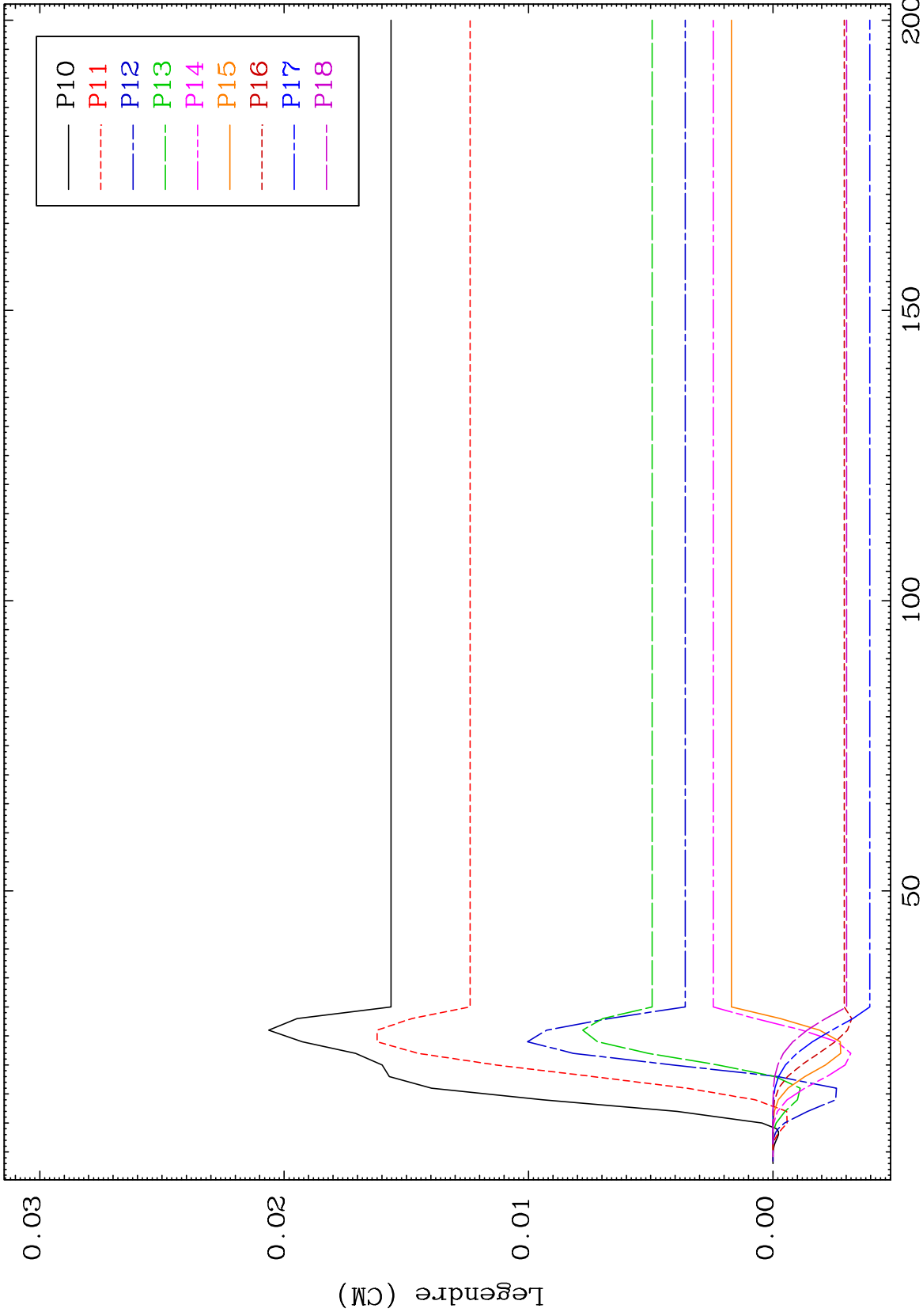
Incident Energy (MeV)

Legendre (CM)

MAT 4137

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

41-Nb-97



121

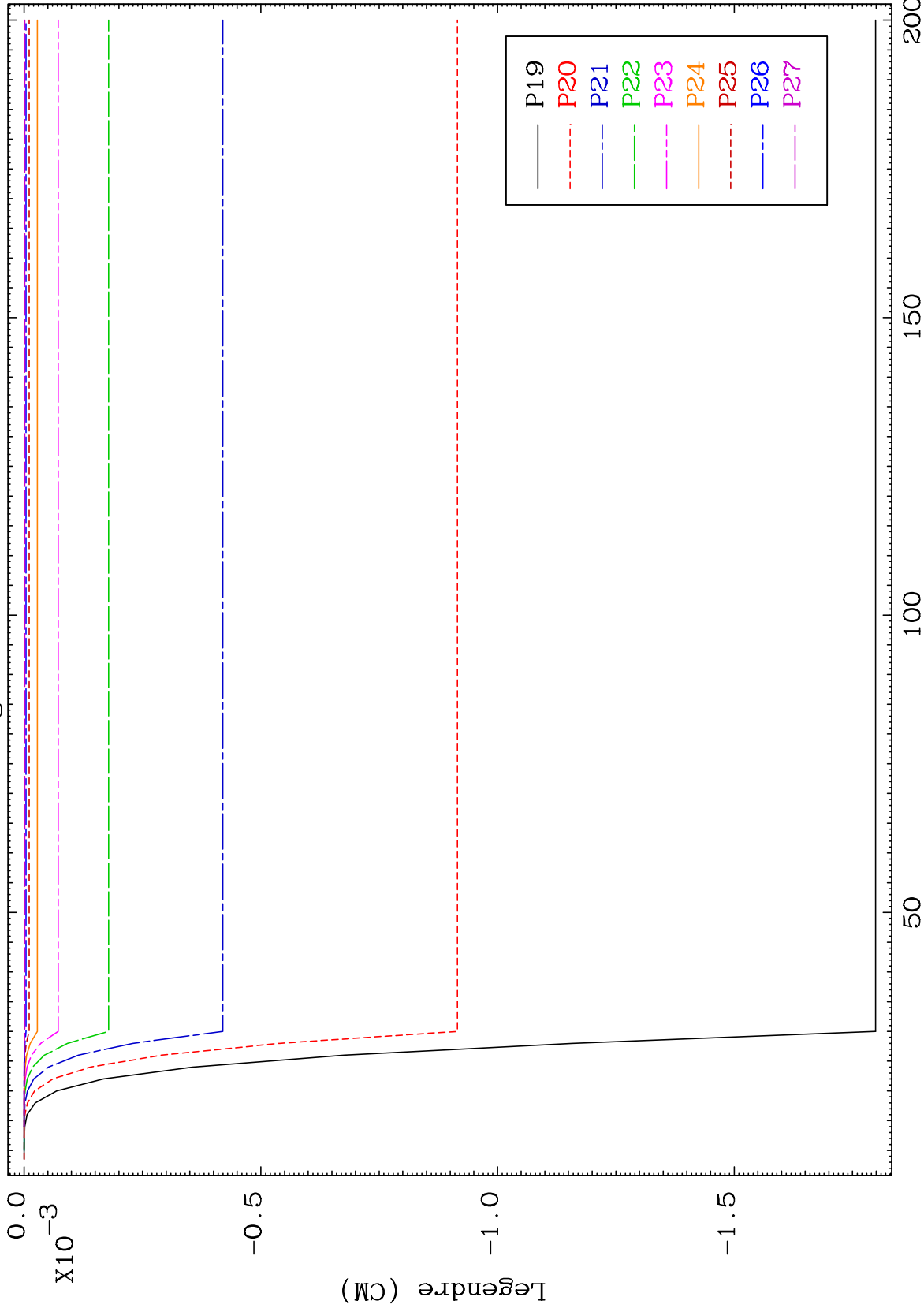
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

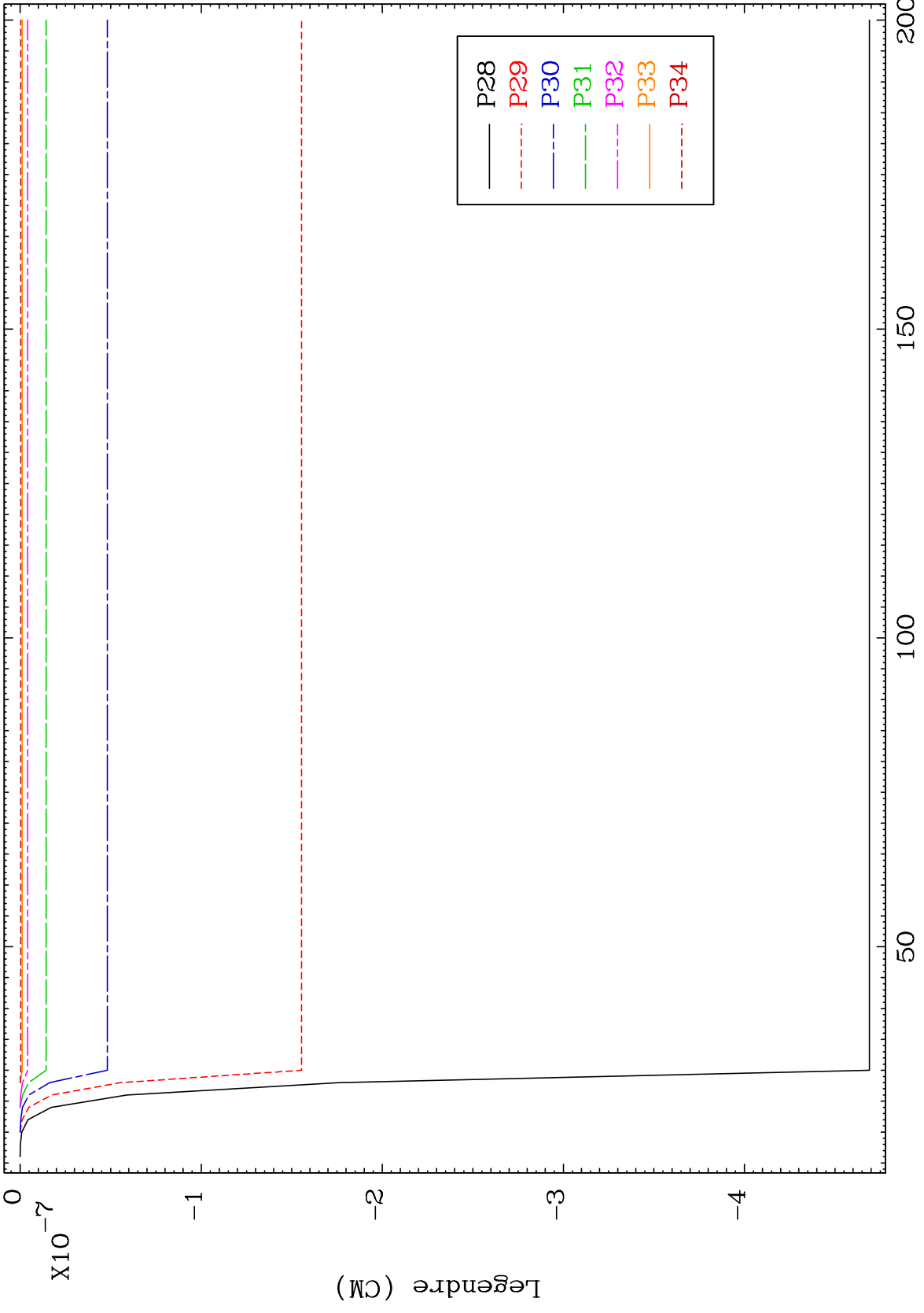
41-Nb-97



122

41-Nb-97

MAT 4137 MT= 76 (n,n') Level Legendre Coefficients 41-Nb-97

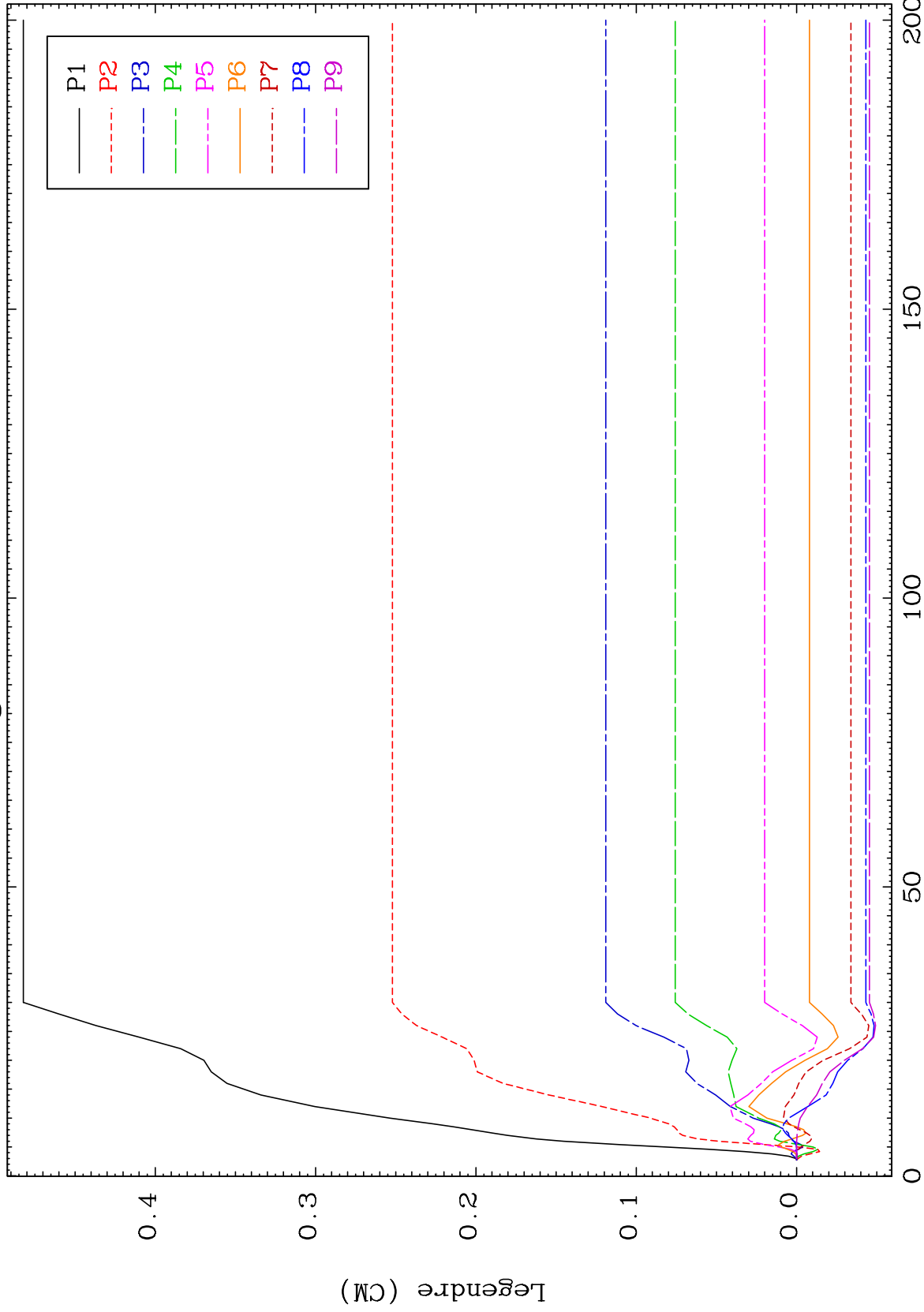


123 41-Nb-97

MAT 4137

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

41-Nb-97



124

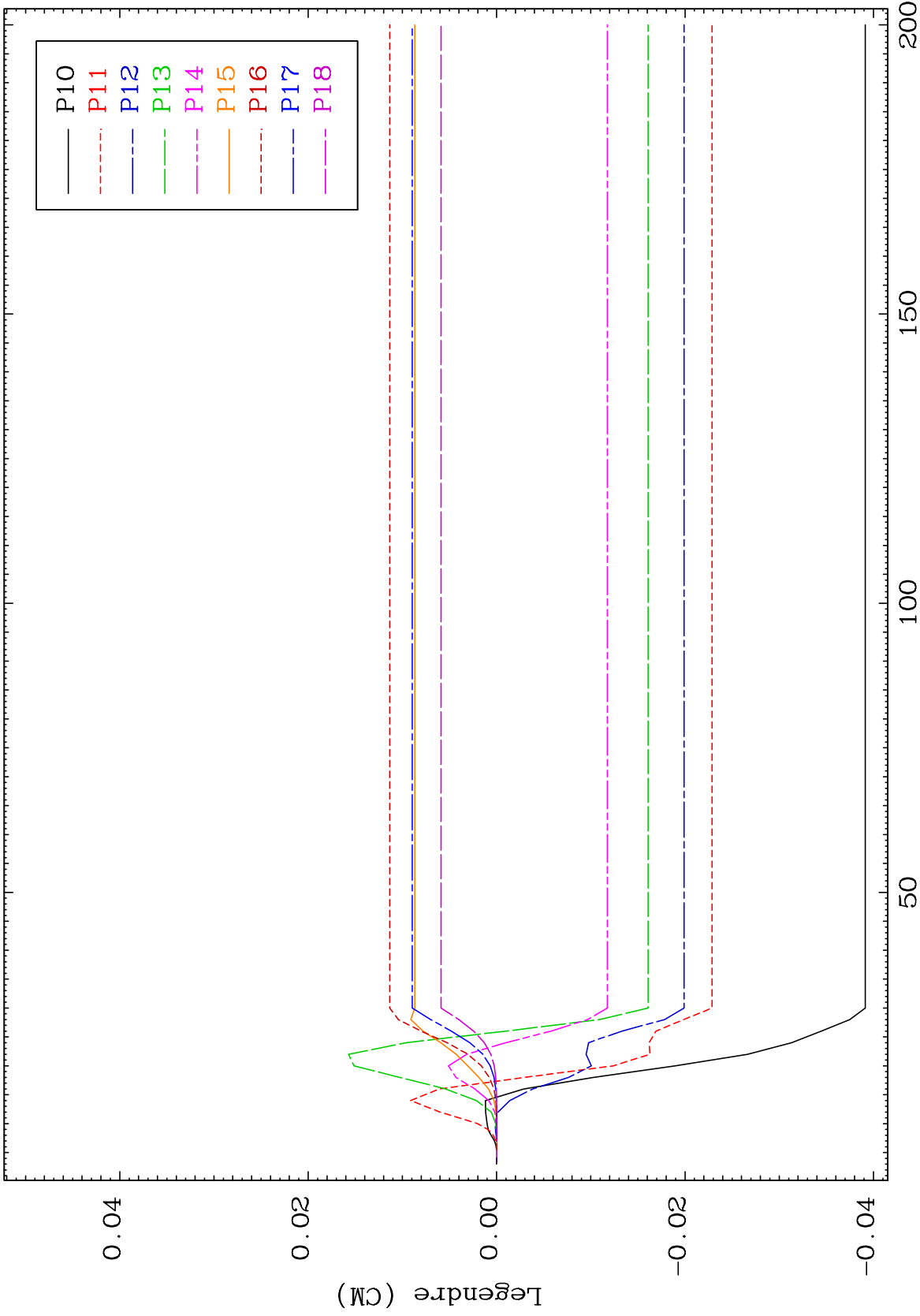
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



125

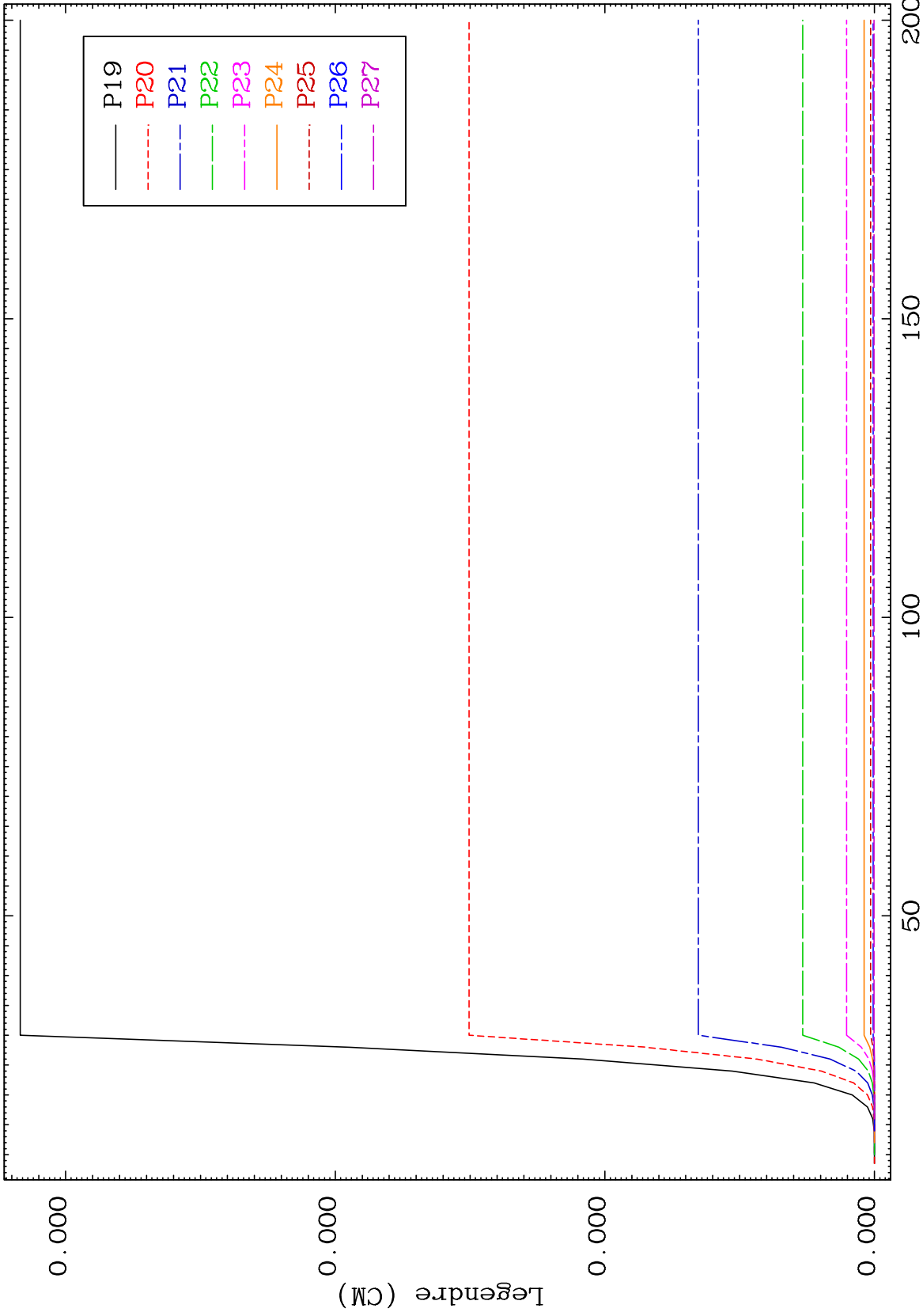
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



126

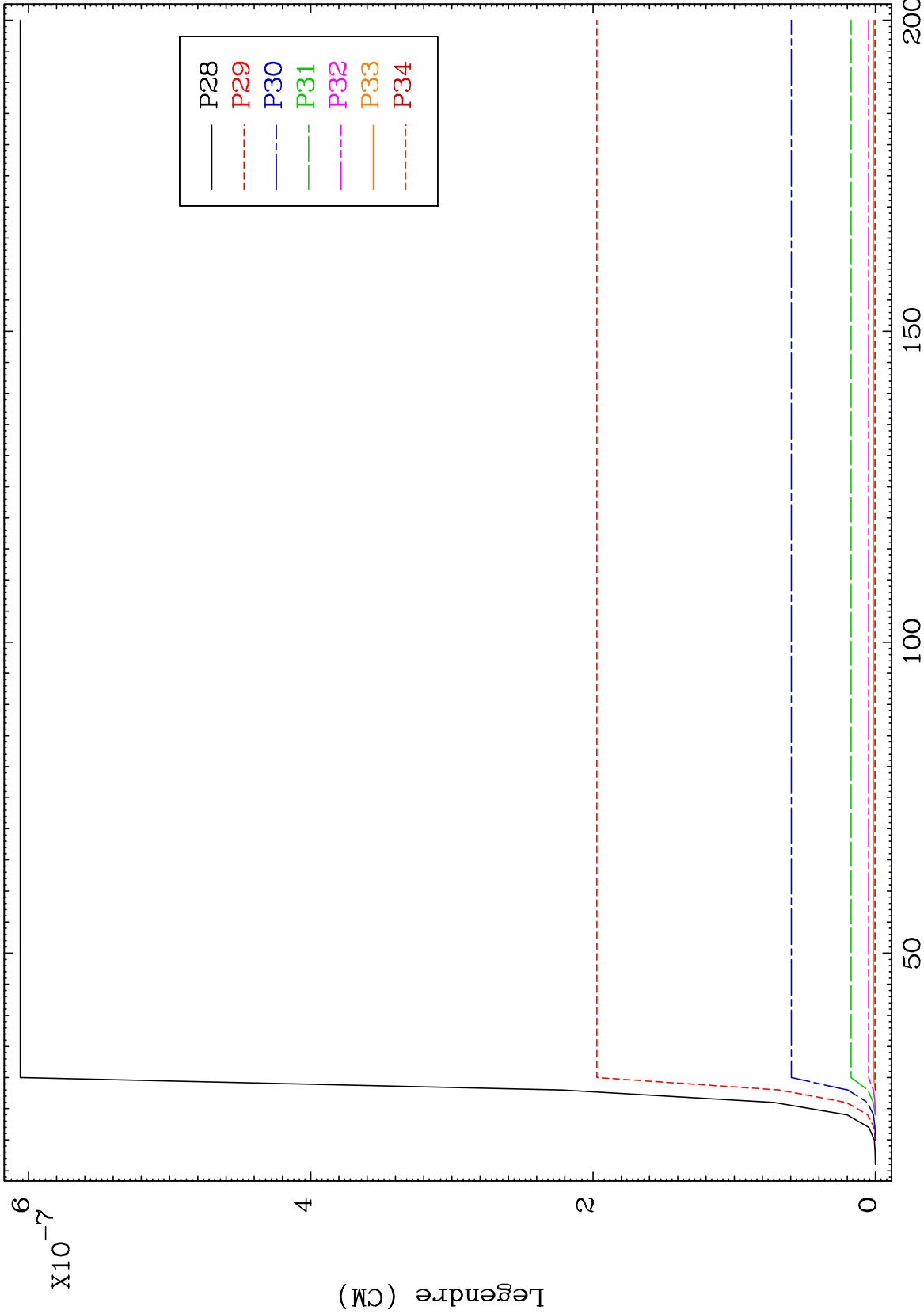
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



127

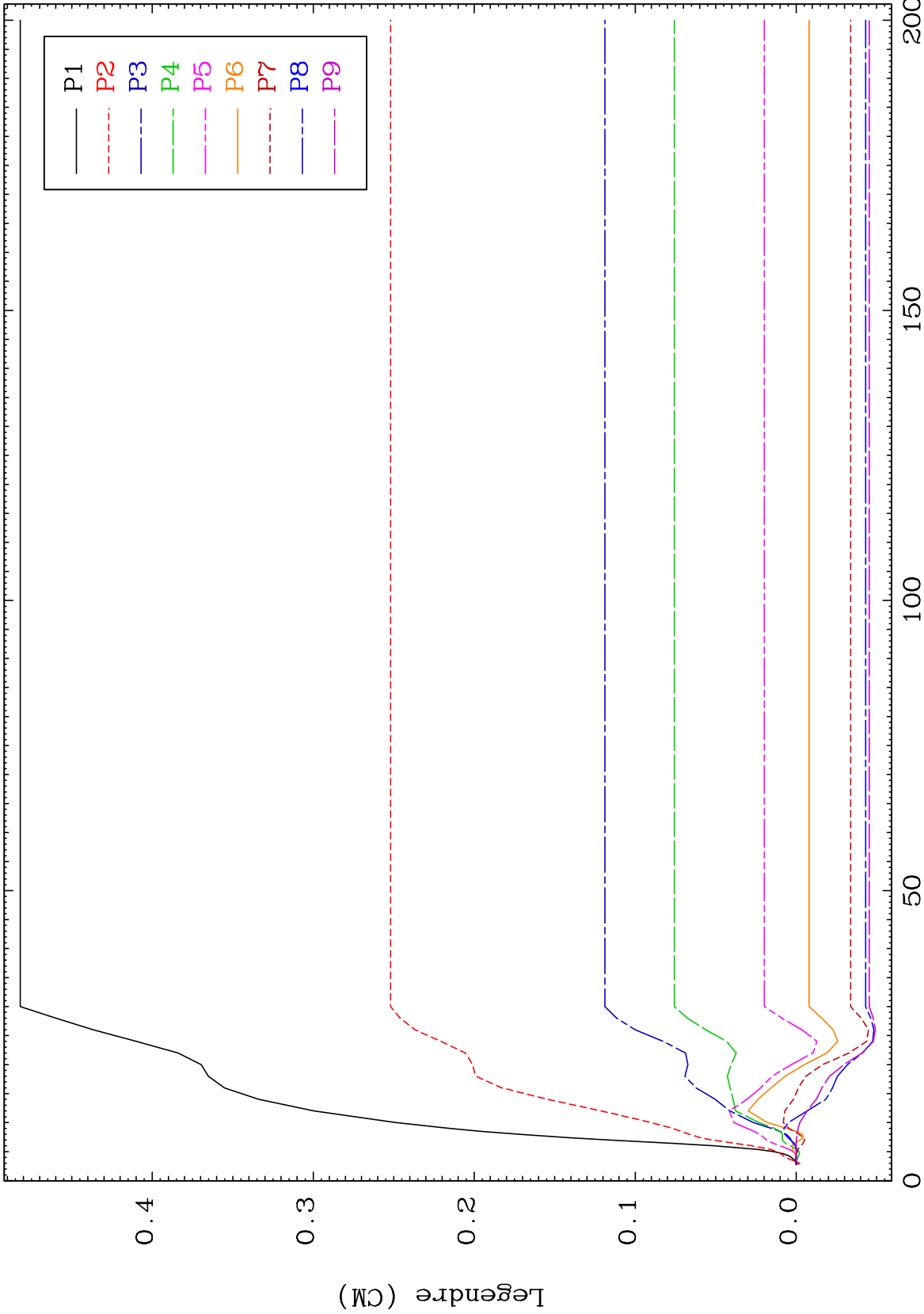
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



128

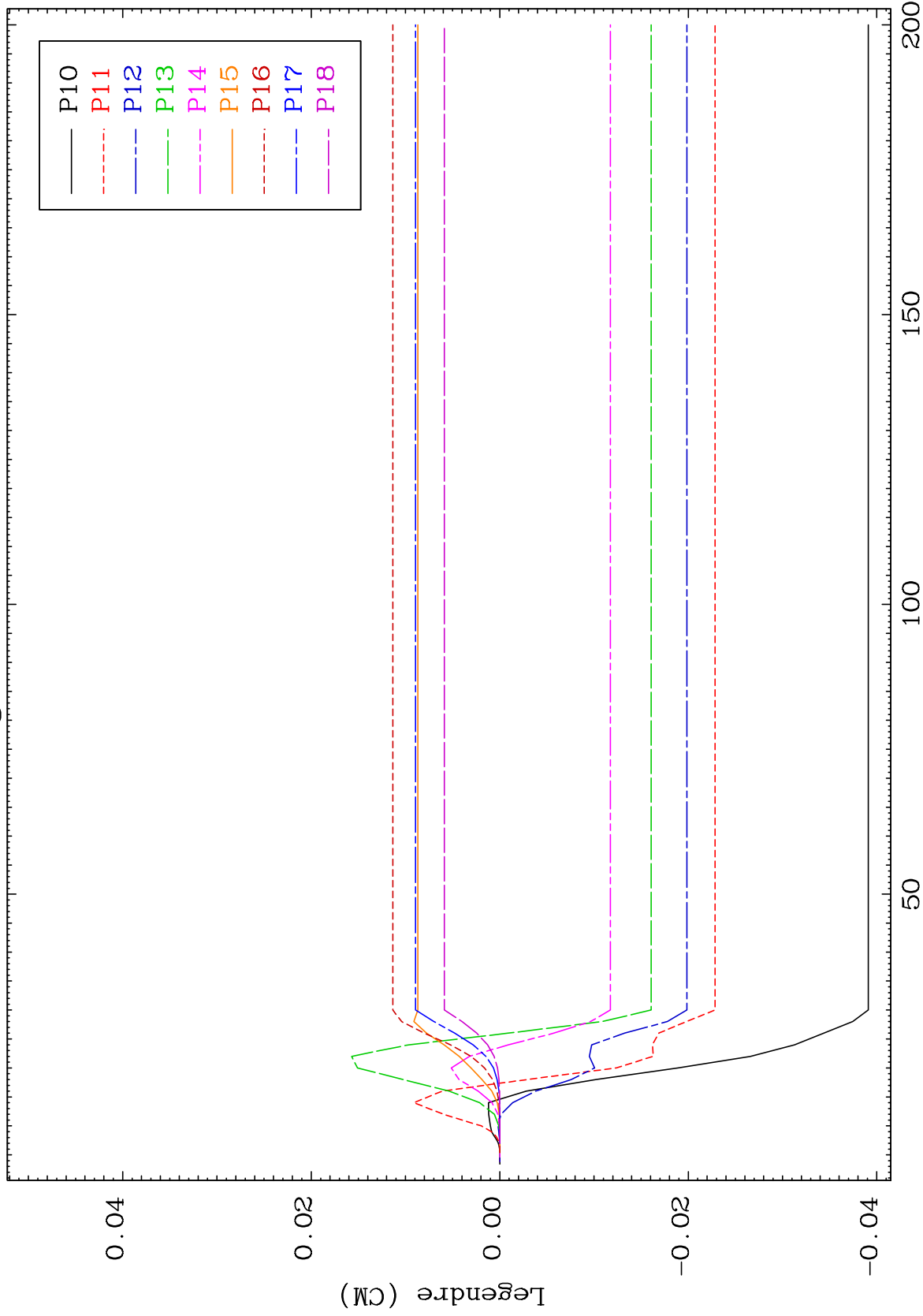
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



129

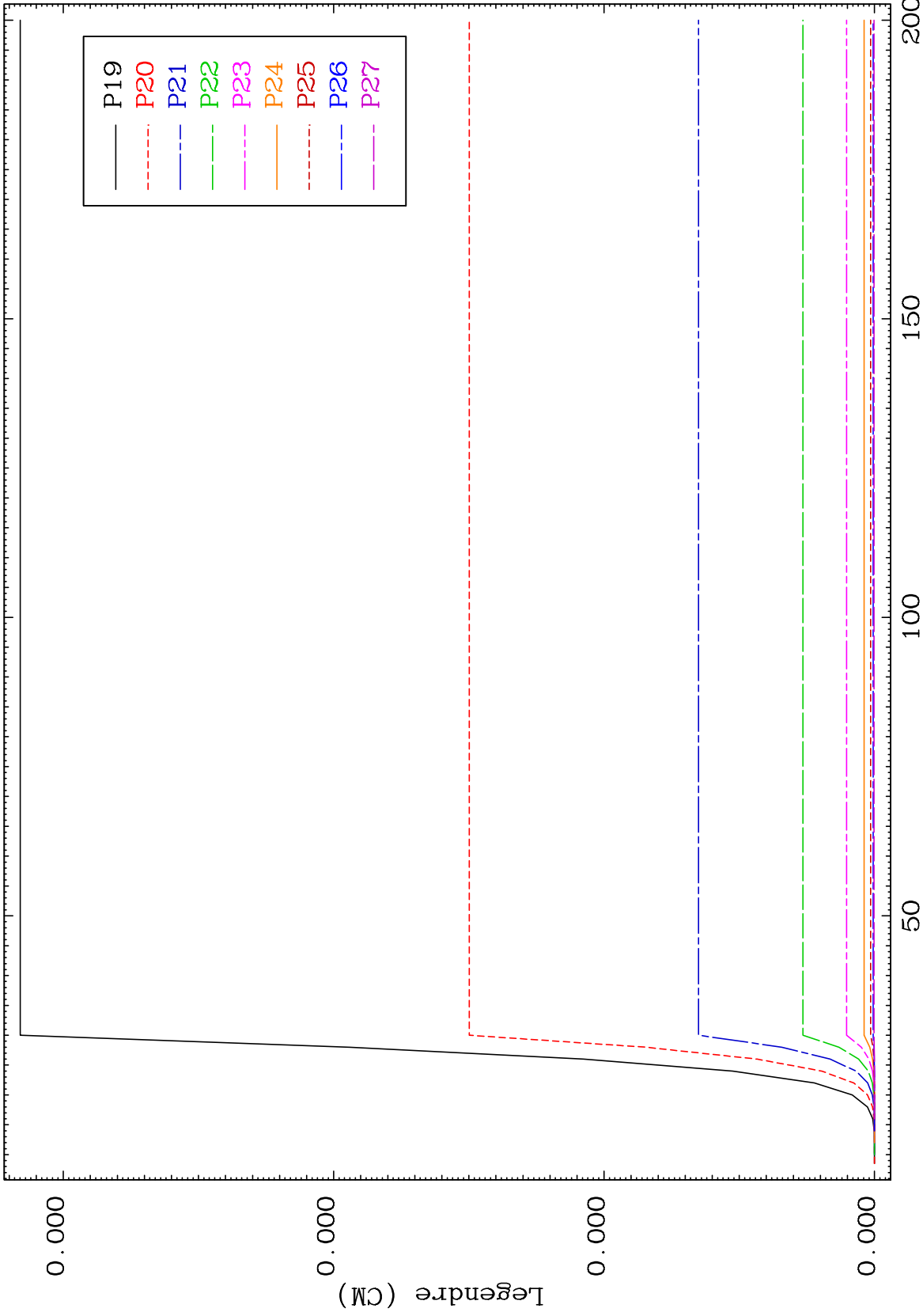
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



130

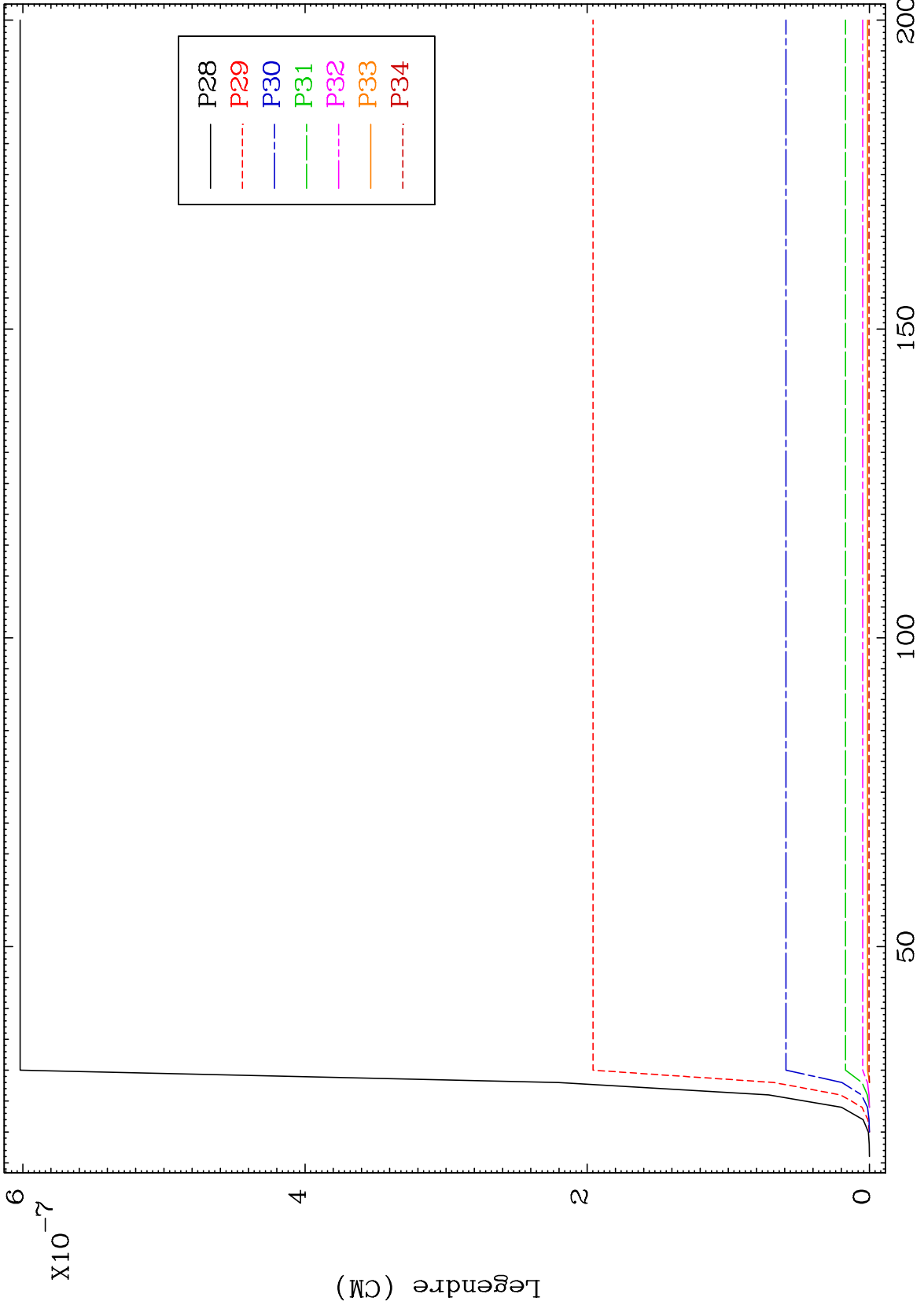
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



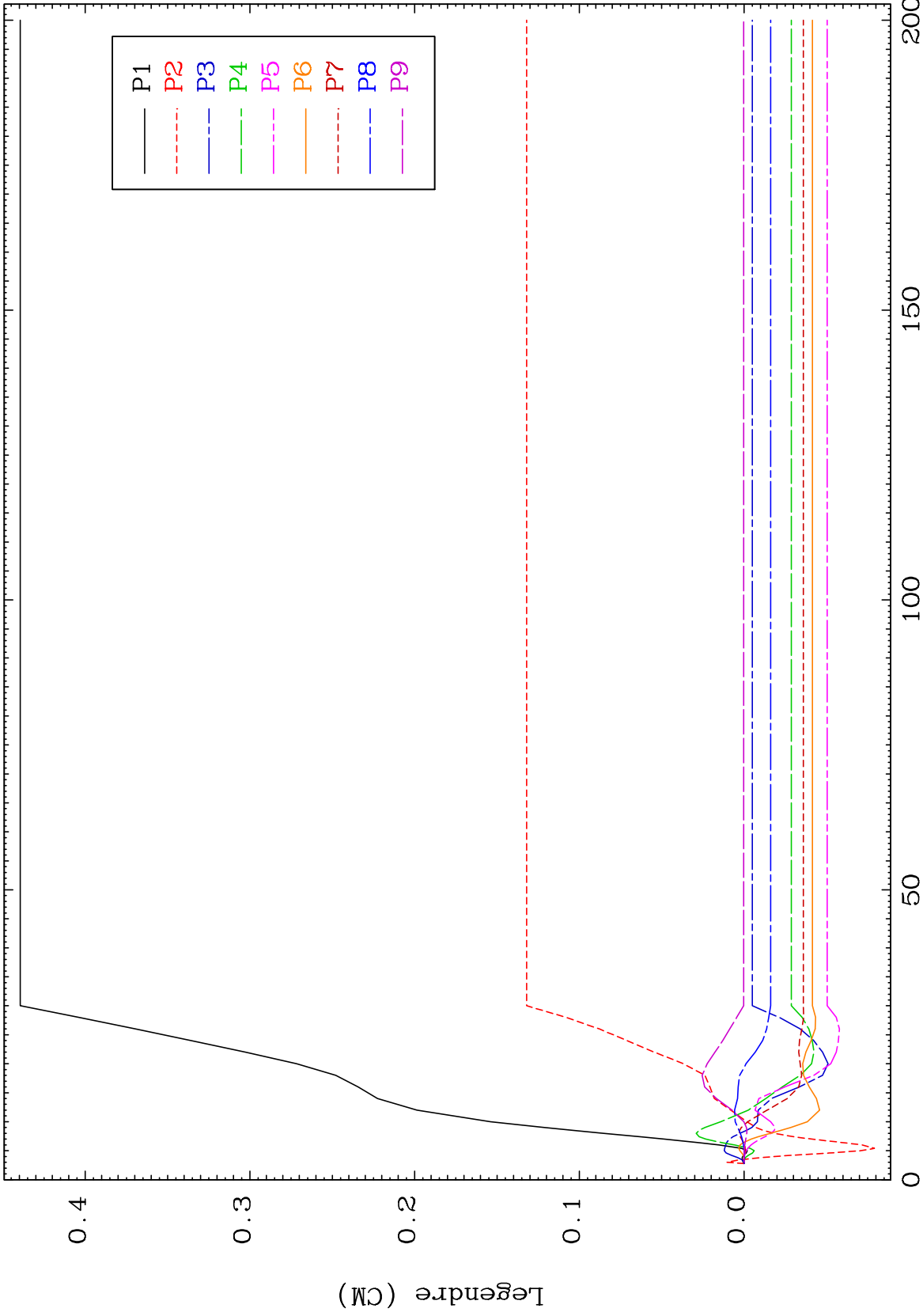
131

41-Nb-97

MAT 4137

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

41-Nb-97



132

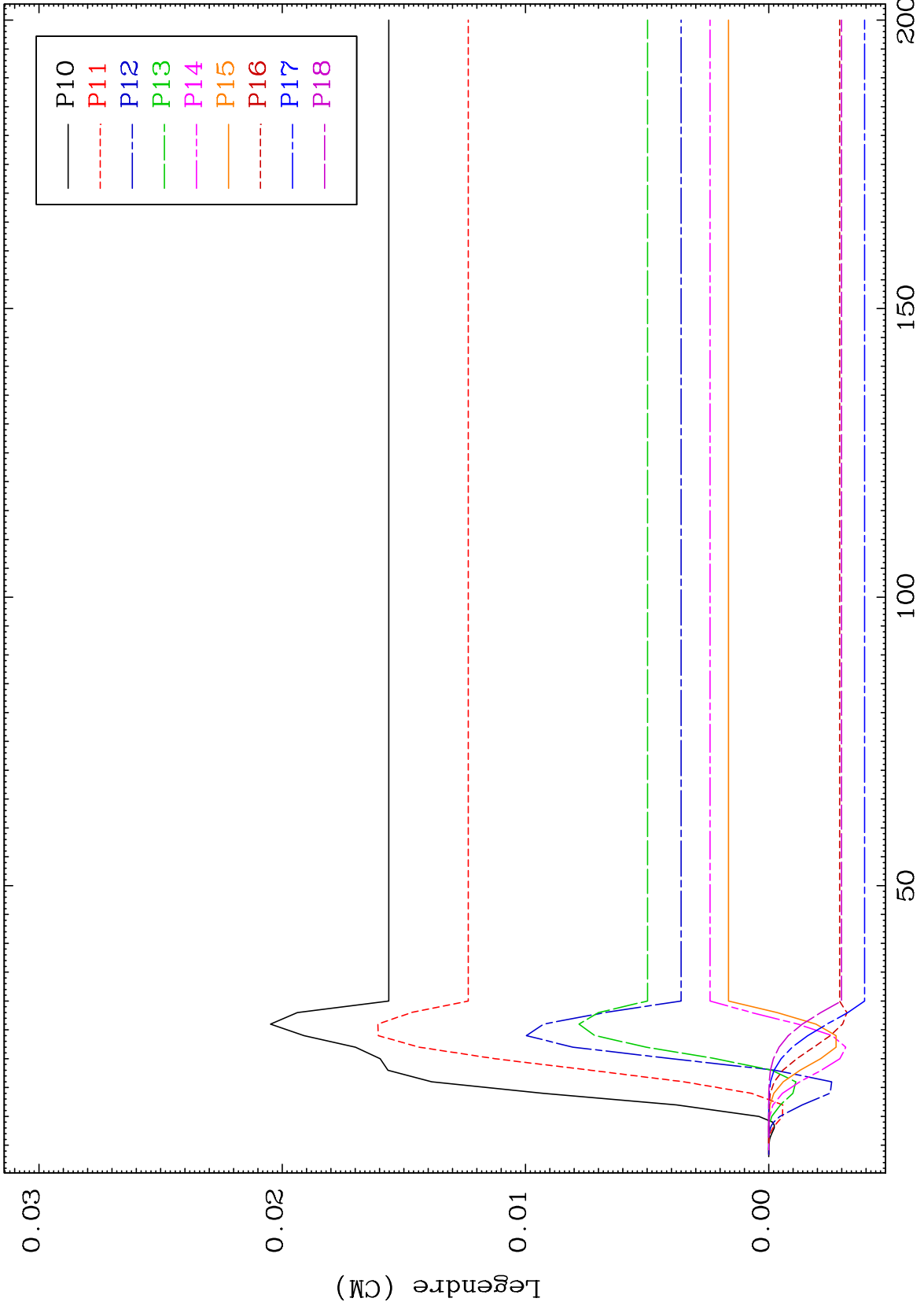
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97



133

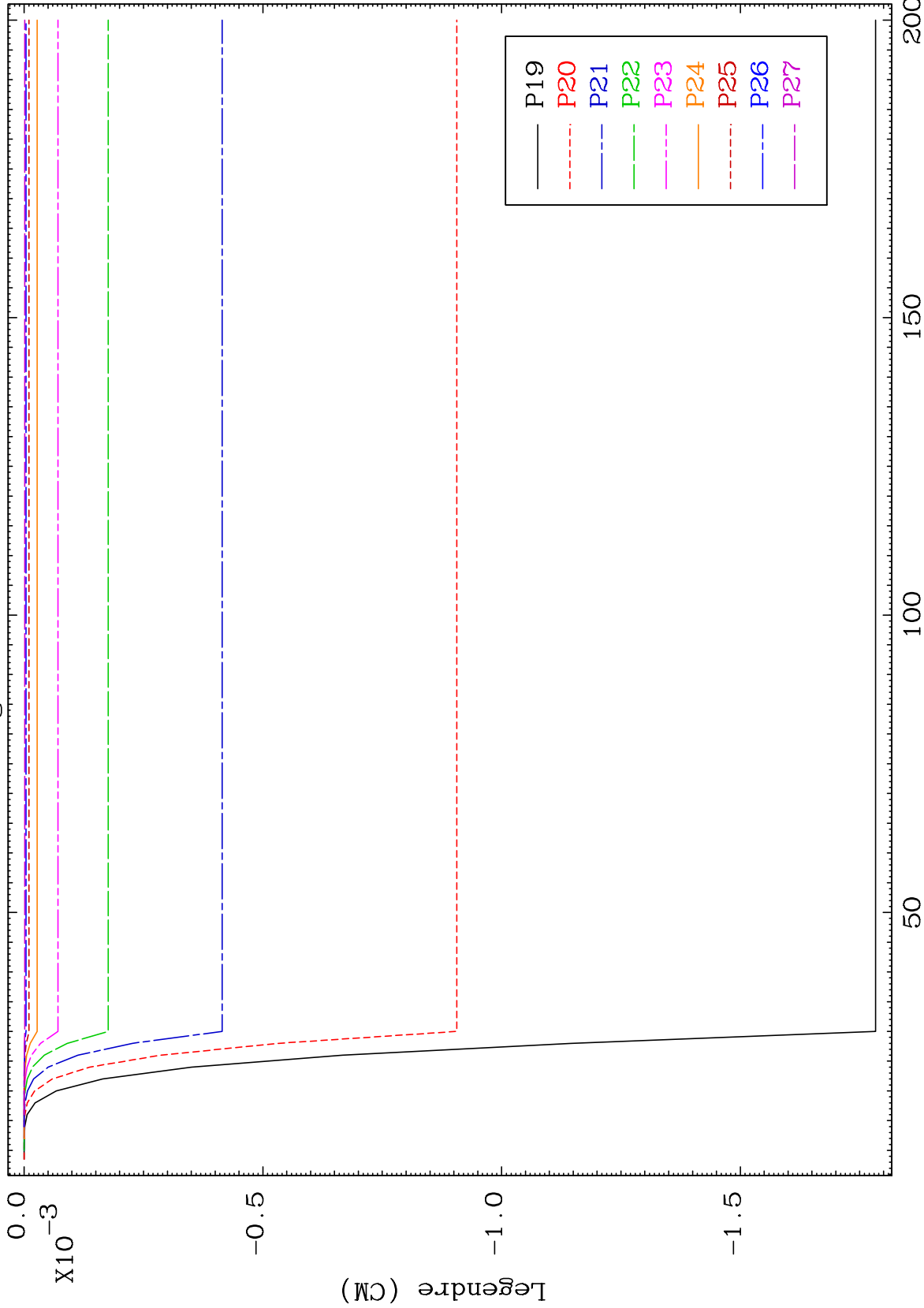
Incident Energy (MeV)

41-Nb-97

MAT 4137

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

41-Nb-97

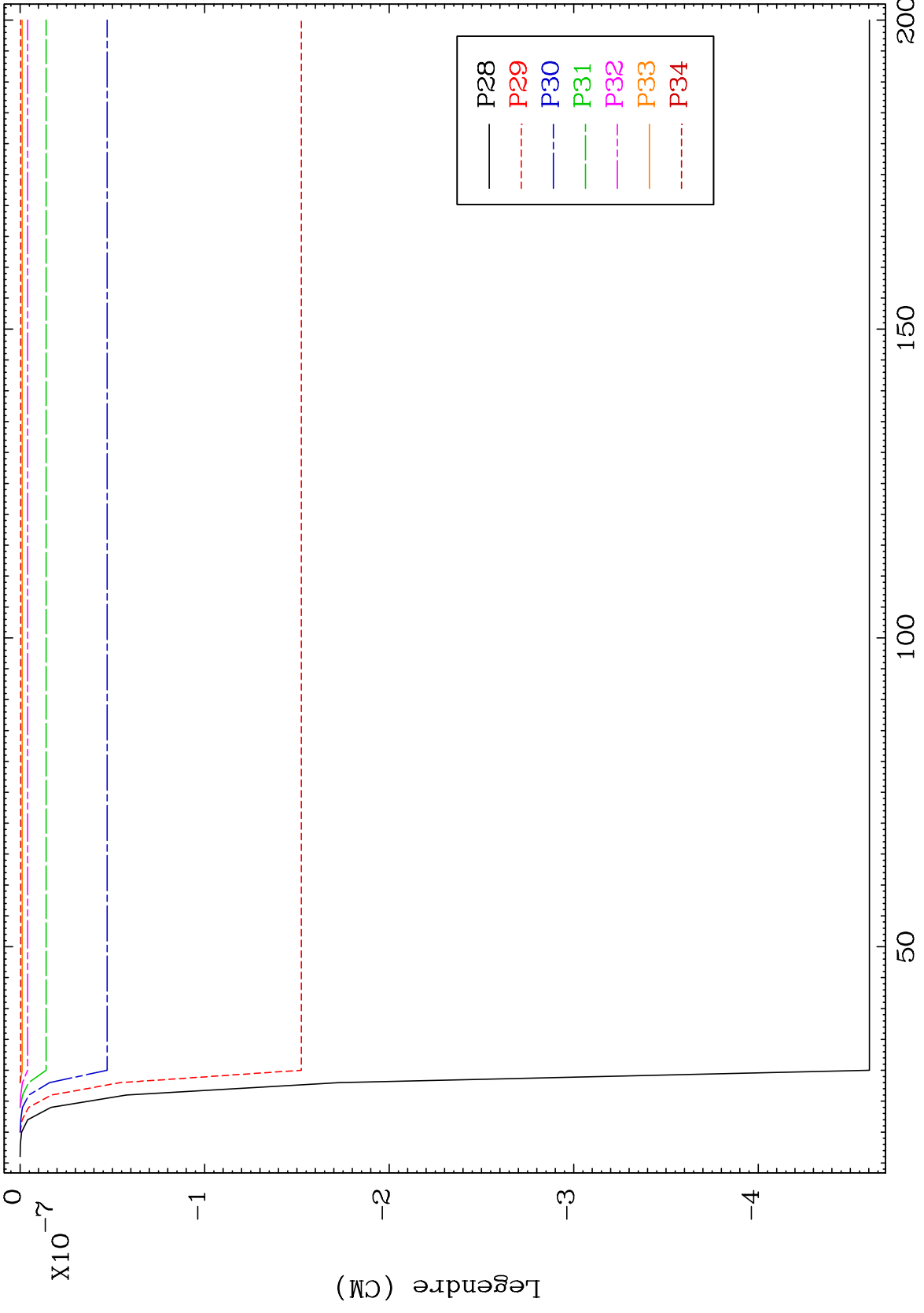


134

Incident Energy (MeV)

41-Nb-97

MAT 4137 MT= 79 (n,n') Level Legendre Coefficients 41-Nb-97

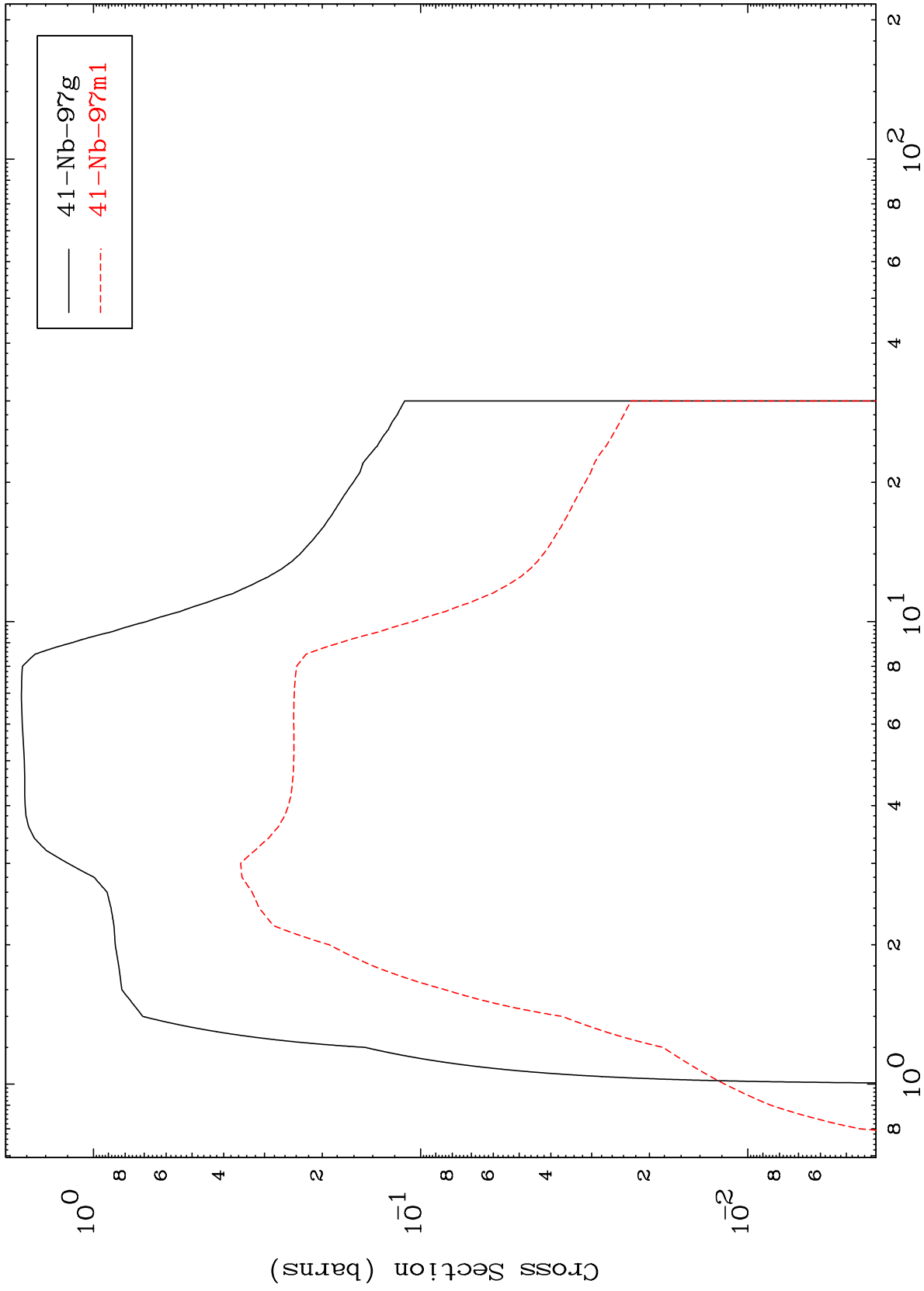


135 41-Nb-97

MAT 4137

41-Nb-97

Inelastic
Radionuclide Production Cross Section



136

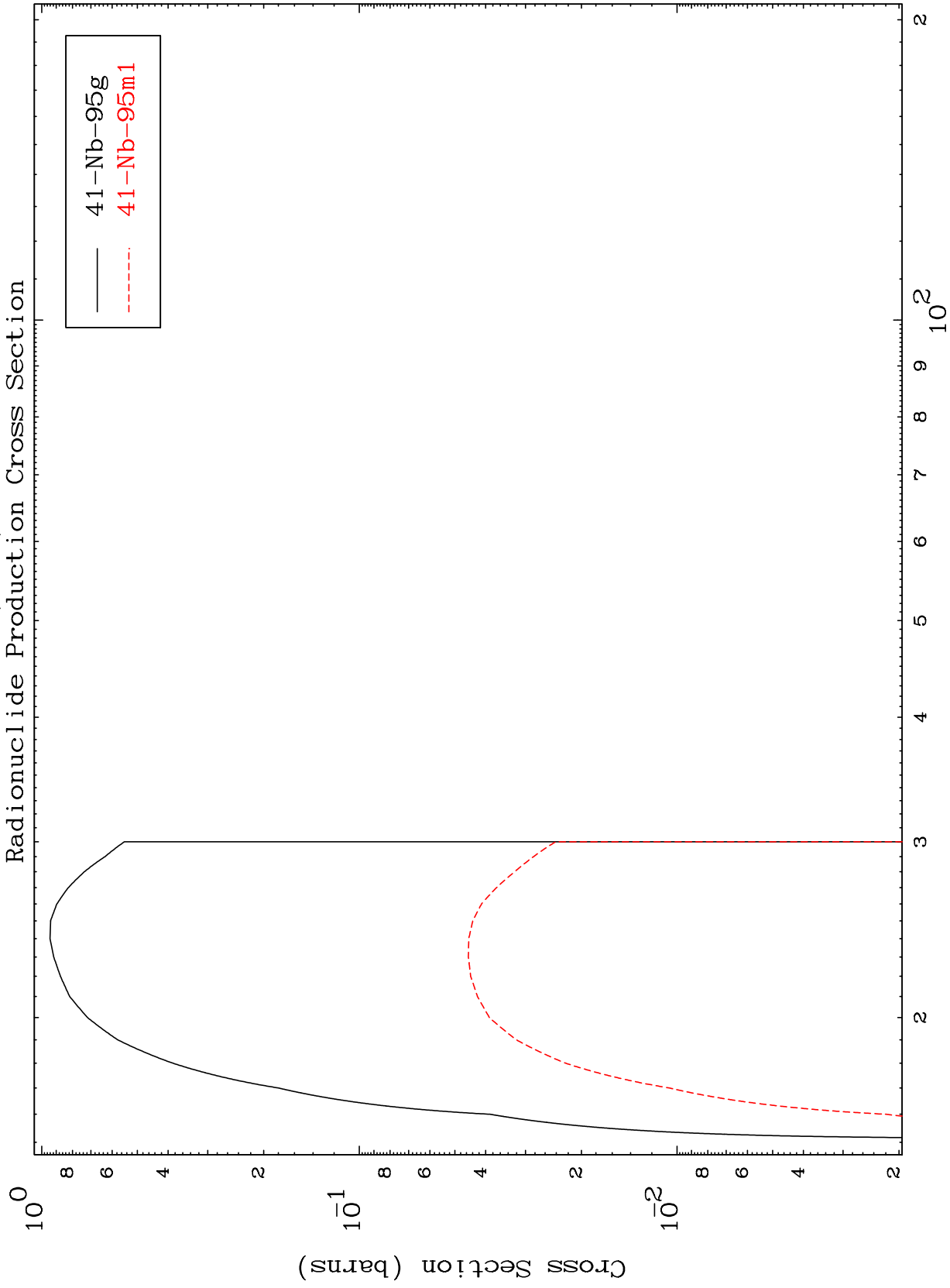
Incident Energy (MeV)

41-Nb-97

MAT 4137

41-Nb-97

(n,3n)
Radionuclide Production Cross Section



137

Incident Energy (MeV)

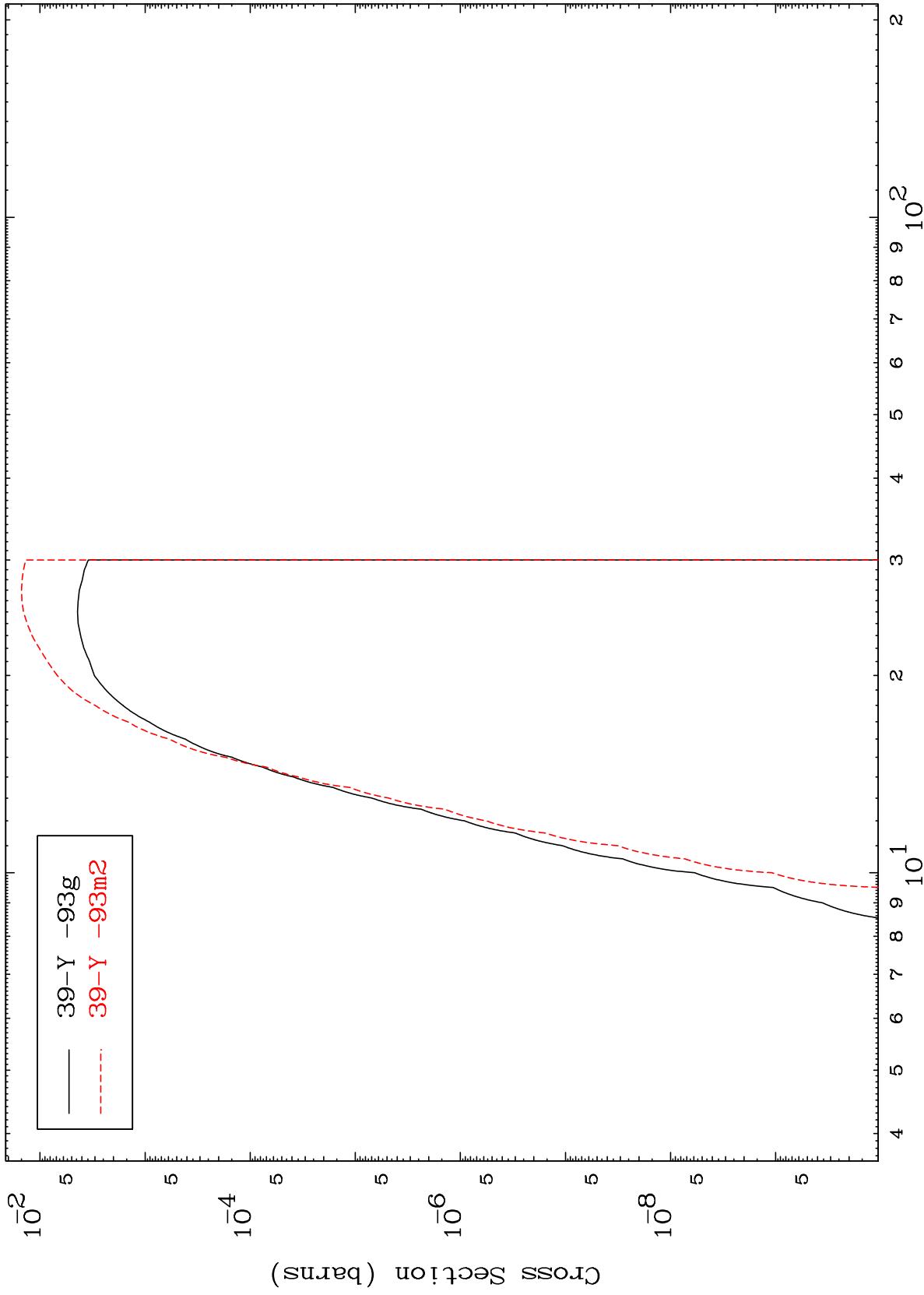
41-Nb-97

MAT 4137

(n,n') α

41-Nb-97

Radionuclide Production Cross Section



138

Incident Energy (MeV)

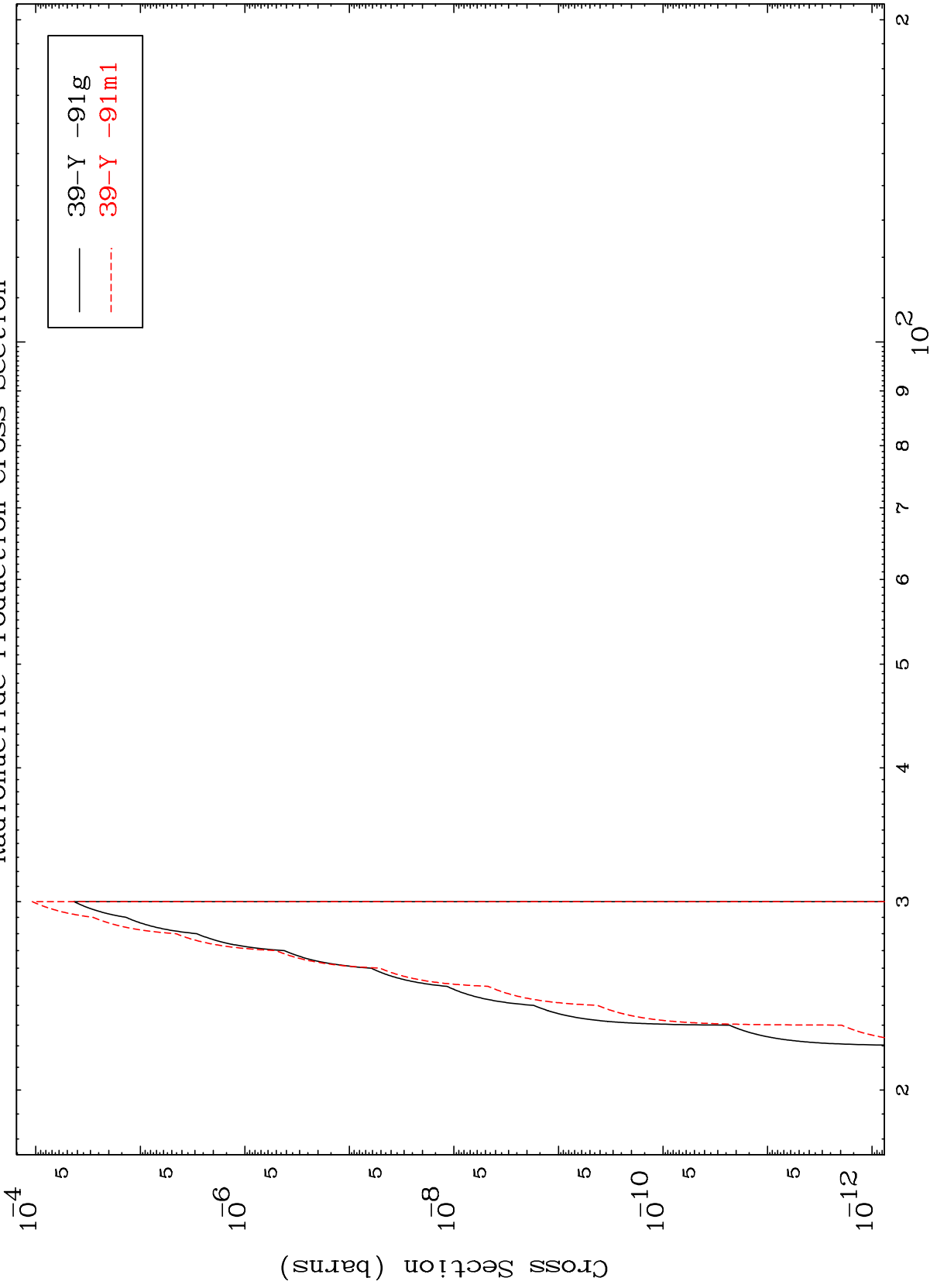
41-Nb-97

MAT 4137

(n,3n) α

41-Nb-97

Radionuclide Production Cross Section



39-Y -91g
39-Y -91m1

139

Incident Energy (MeV)

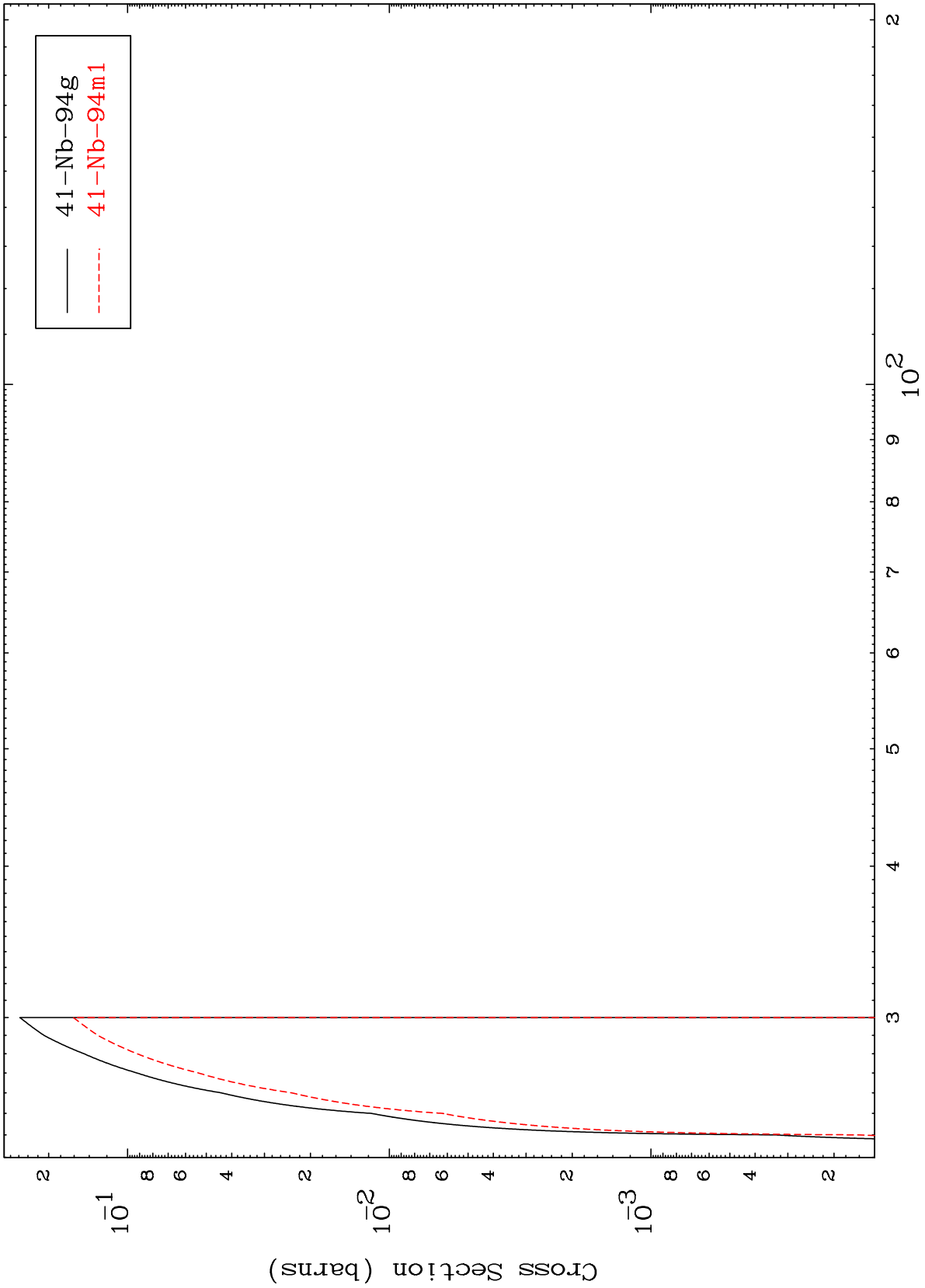
41-Nb-97

MAT 4137

(n,4n)

41-Nb-97

Radionuclide Production Cross Section



140

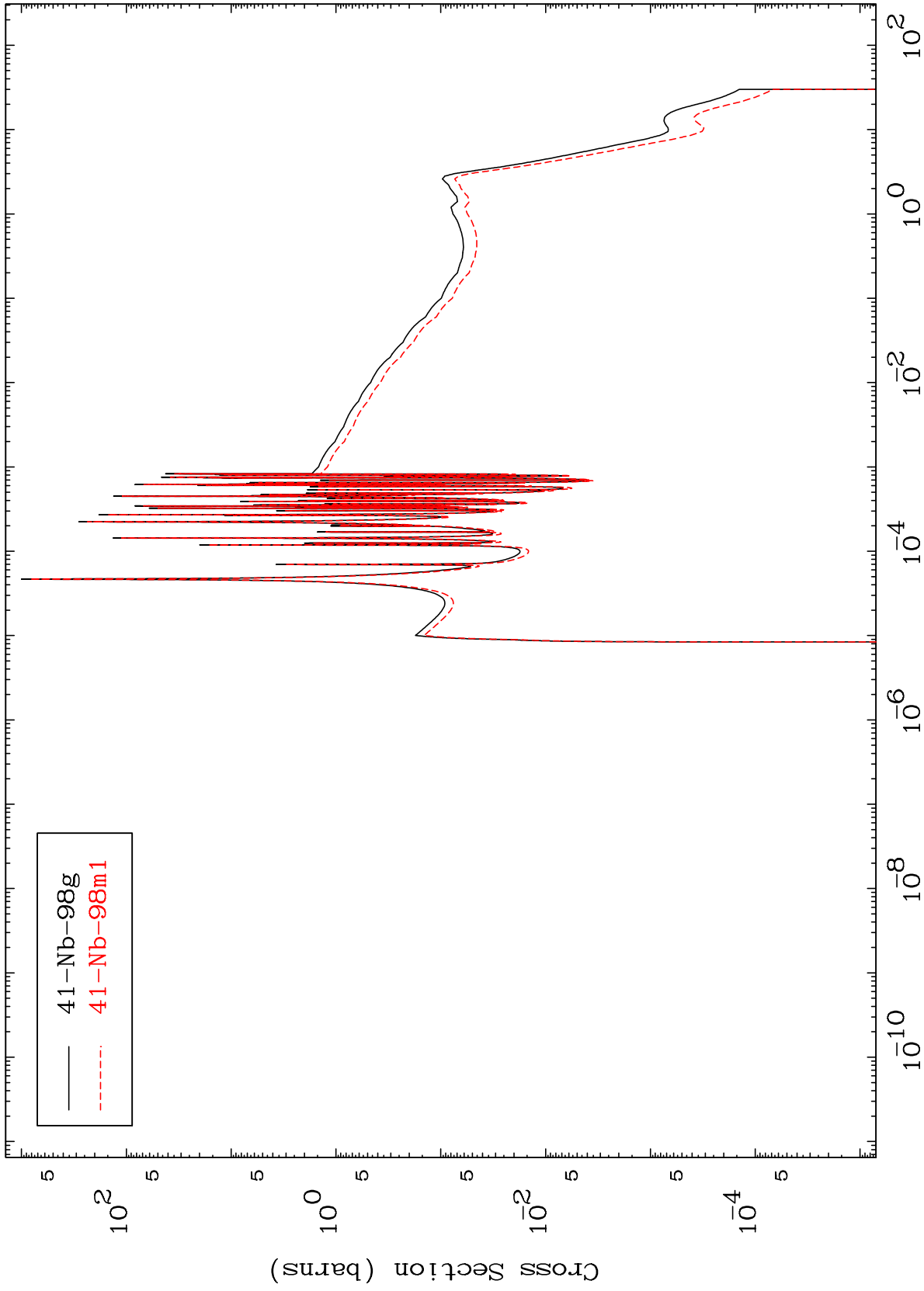
Incident Energy (MeV)

41-Nb-97

MAT 4137

41-Nb-97

(n,γ)
Radionuclide Production Cross Section



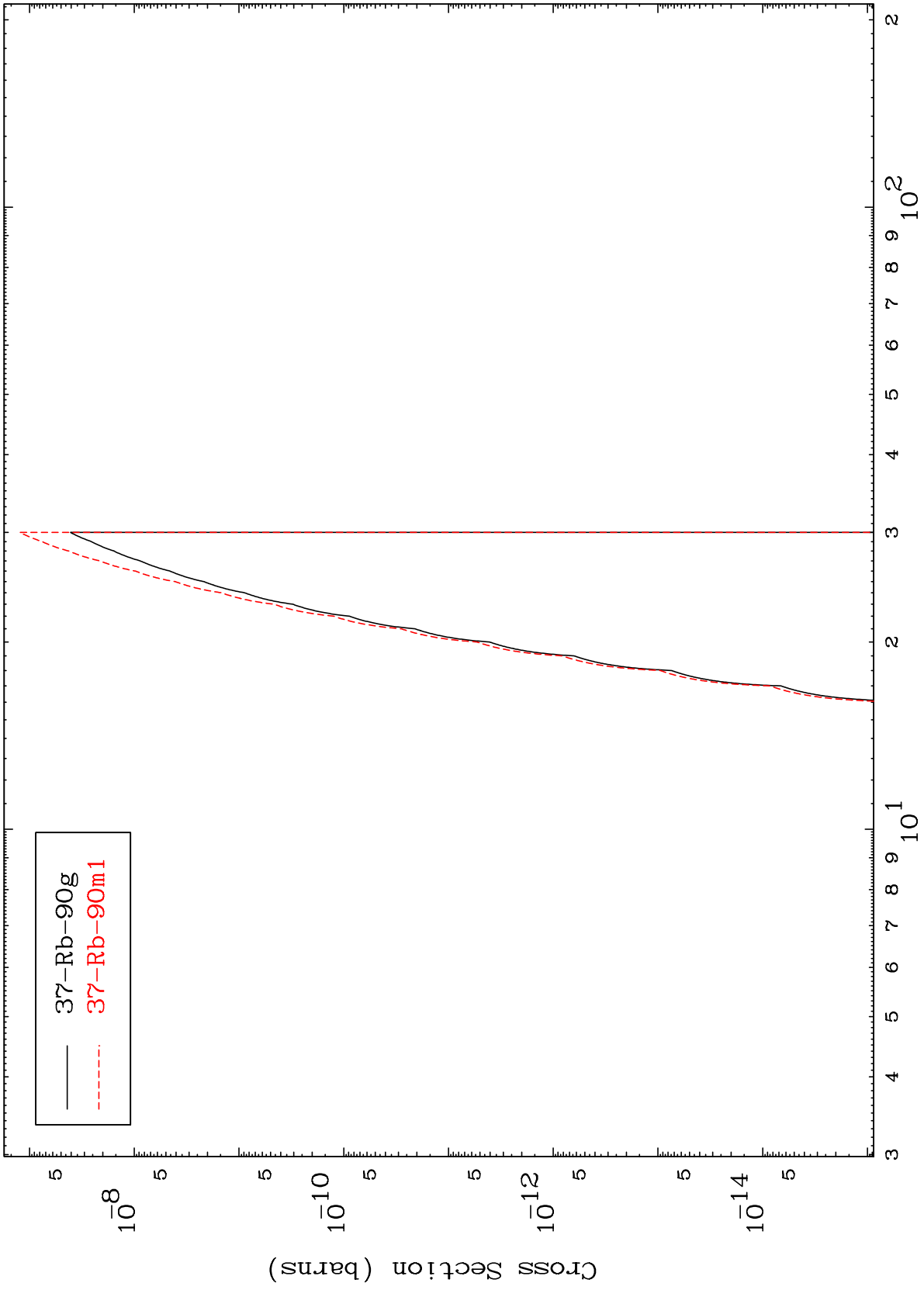
141

41-Nb-97

MAT 4137

41-Nb-97

Radionuclide Production Cross Section
(n,2α)



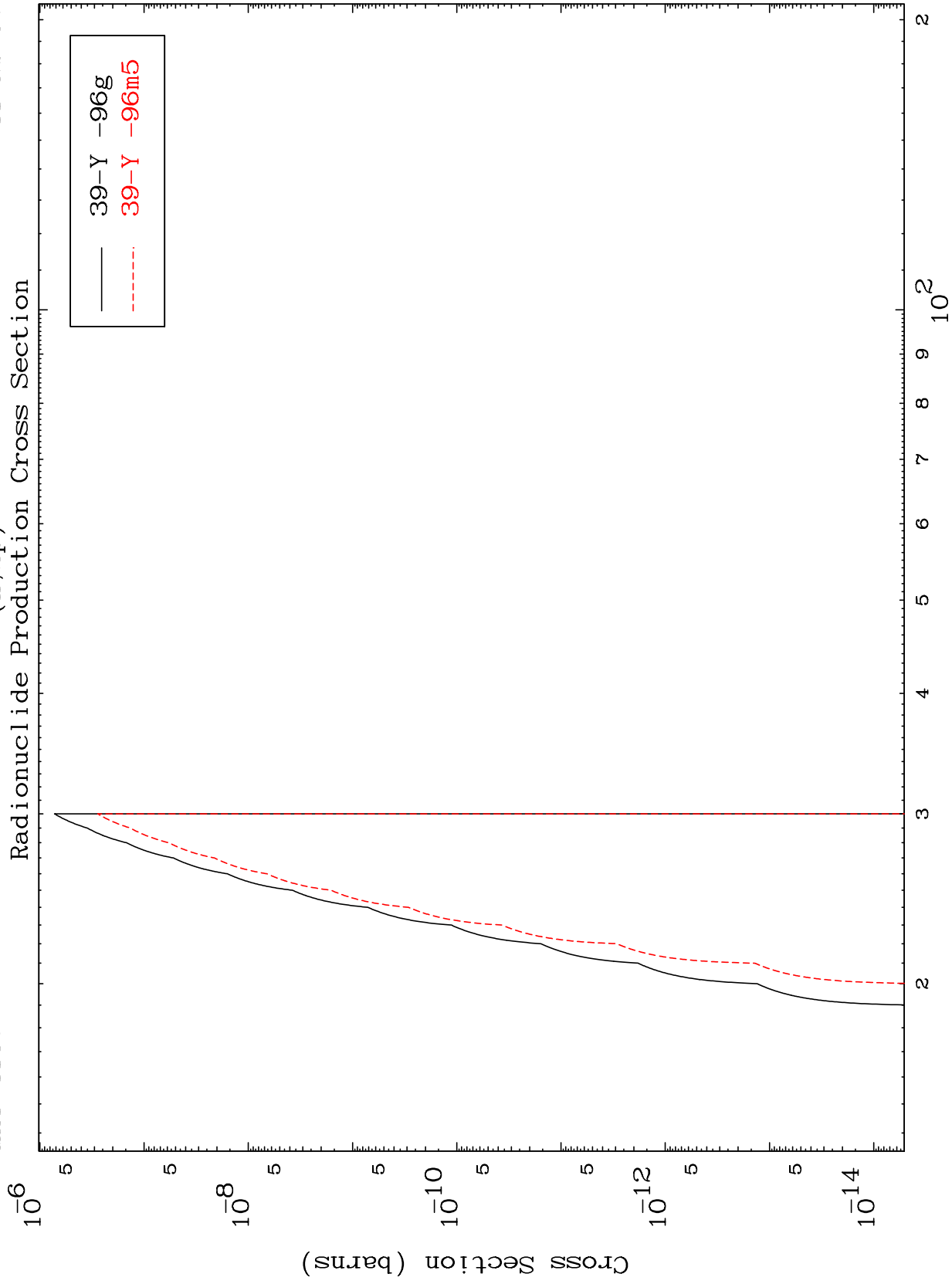
142

41-Nb-97

MAT 4137

41-Nb-97

(n,2p)
Radionuclide Production Cross Section



143

41-Nb-97