

Program EVALPLOT  
(Version 2018-1)

by

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(Present Contact Information)

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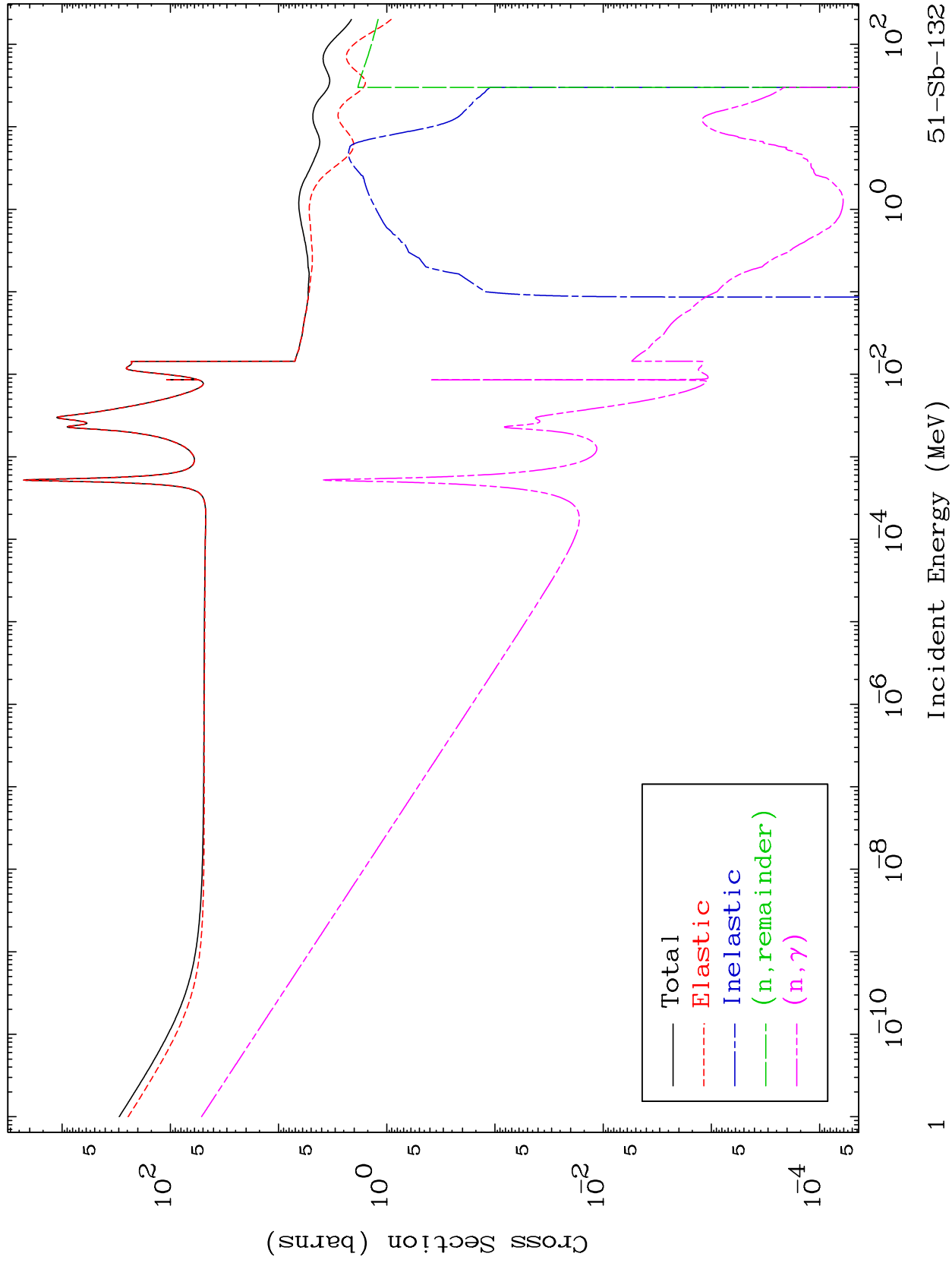
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5158

Major  
293 Kelvin Cross Sections

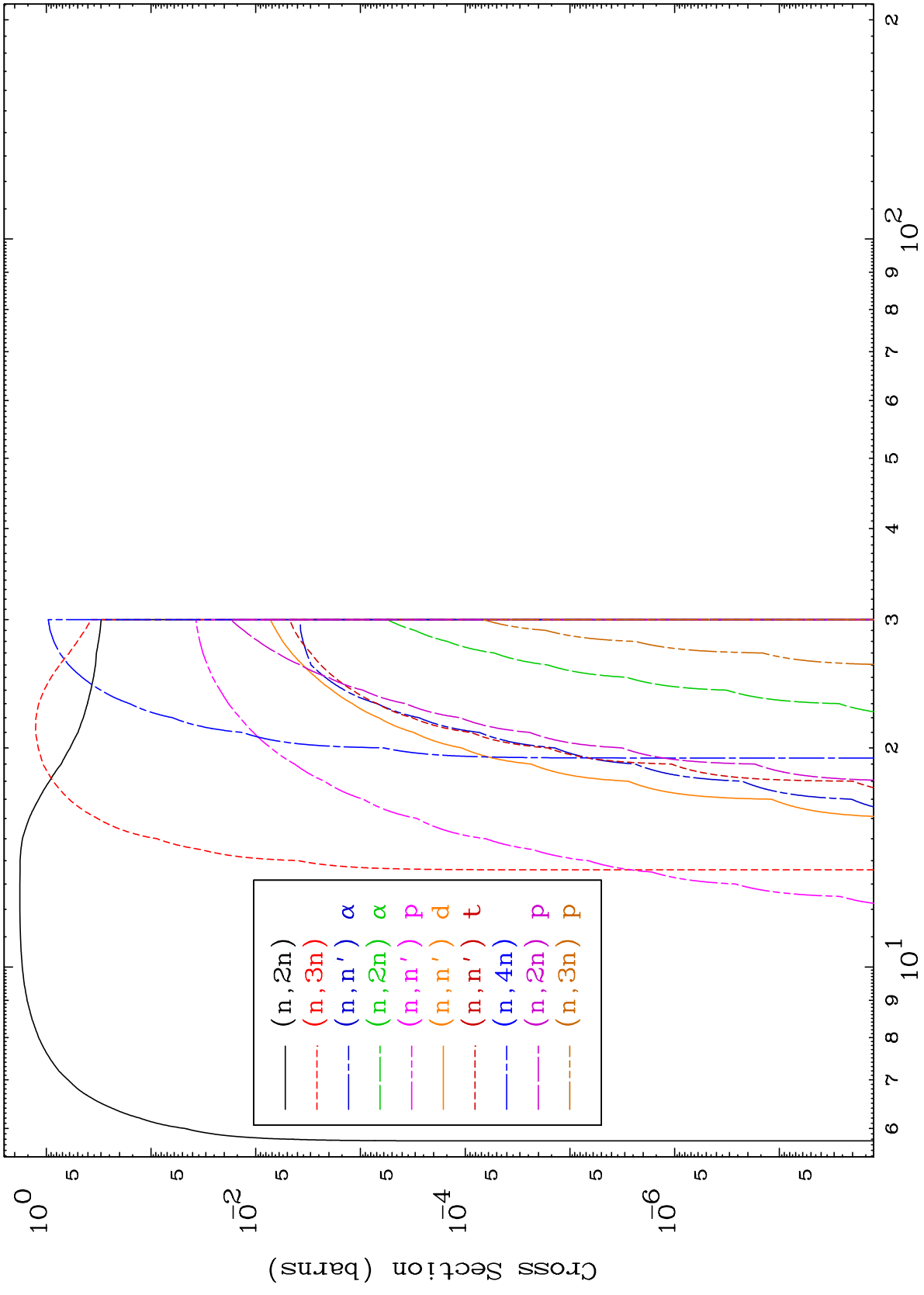
51-Sb-132



MAT 5158

Neutron Production  
293 Kelvin Cross Sections

51-Sb-132



2

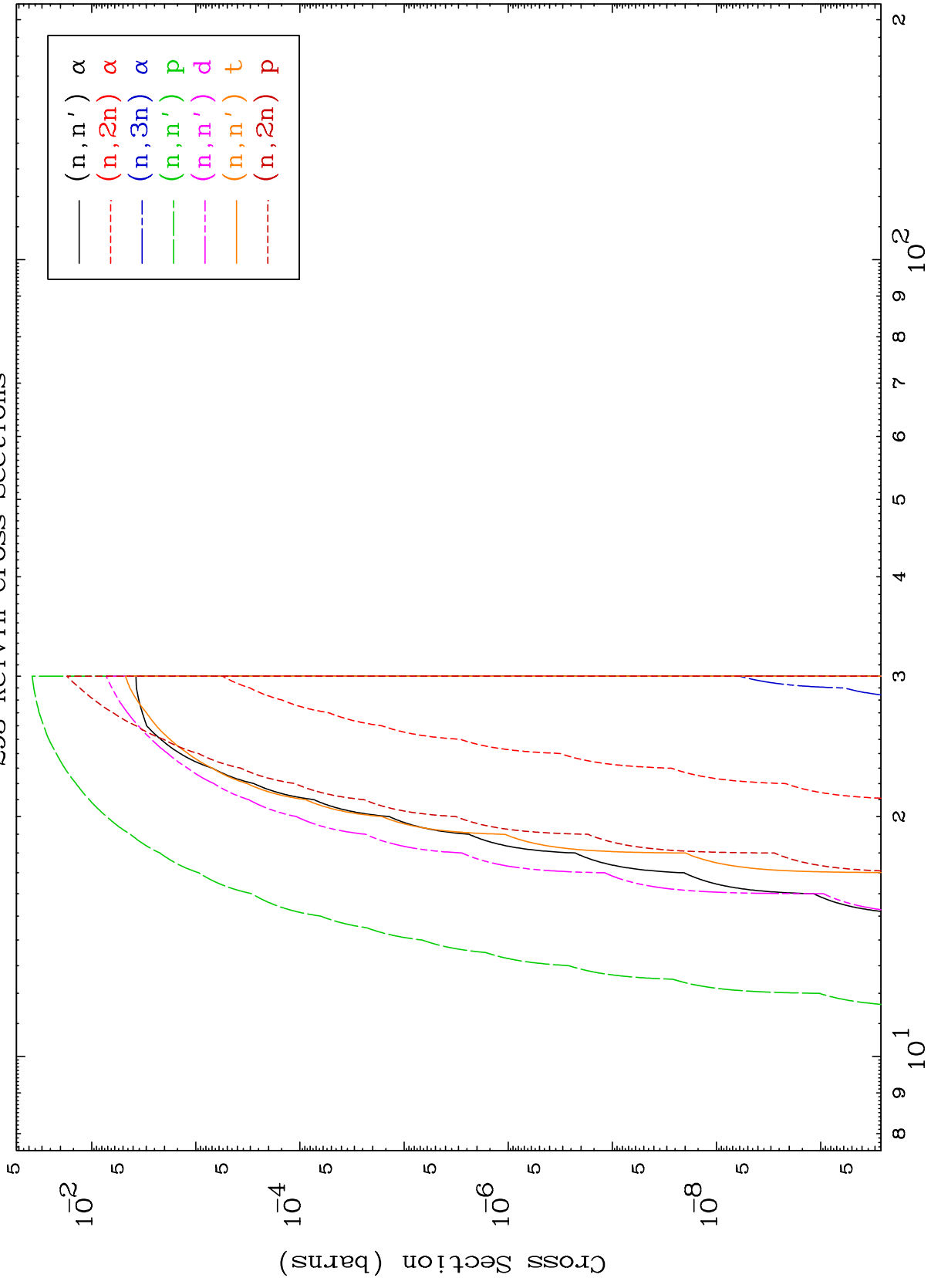
Incident Energy (MeV)

51-Sb-132

MAT 5158

Charged Particle  
293 Kelvin Cross Sections

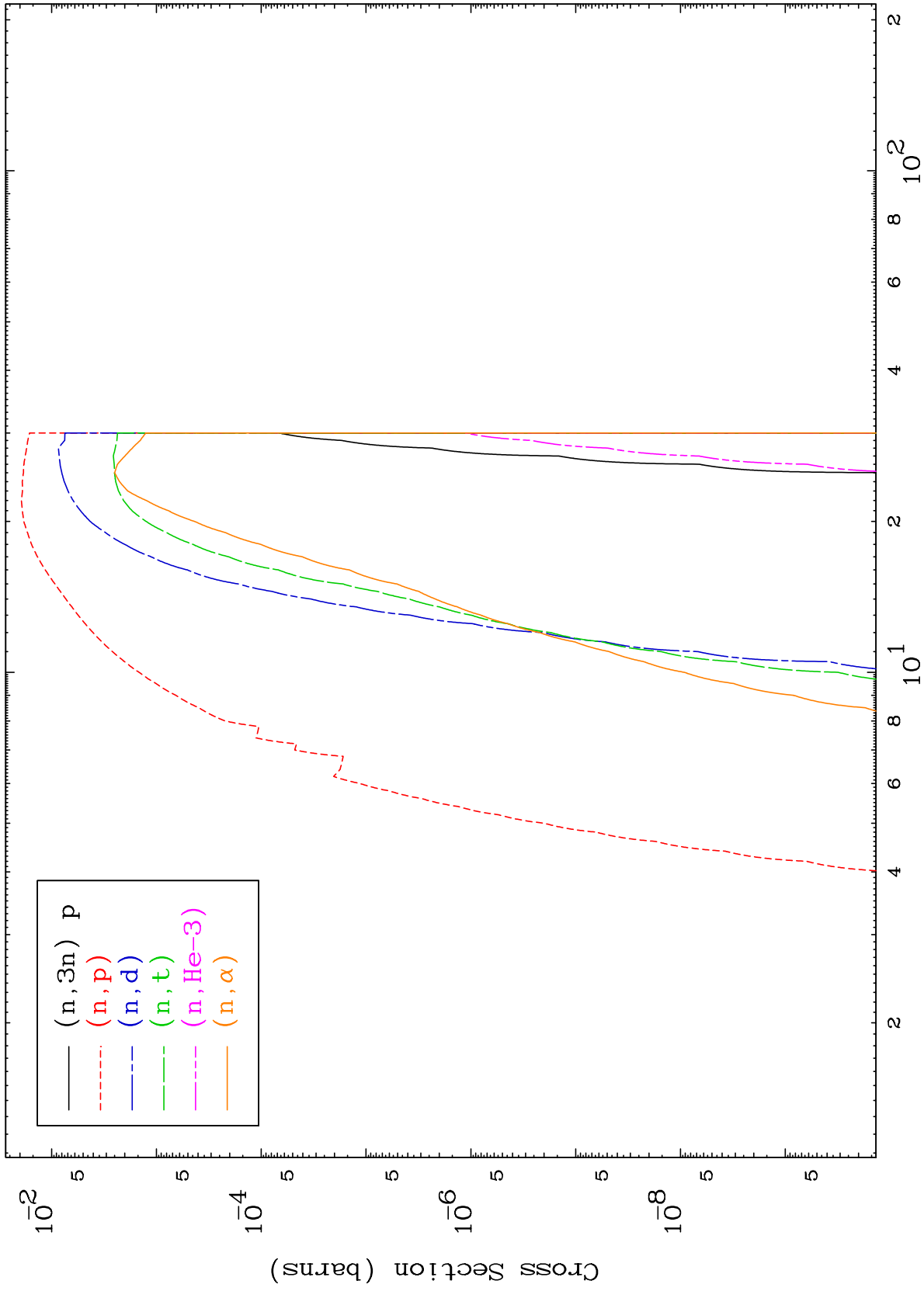
51-Sb-132



3

Incident Energy (MeV)

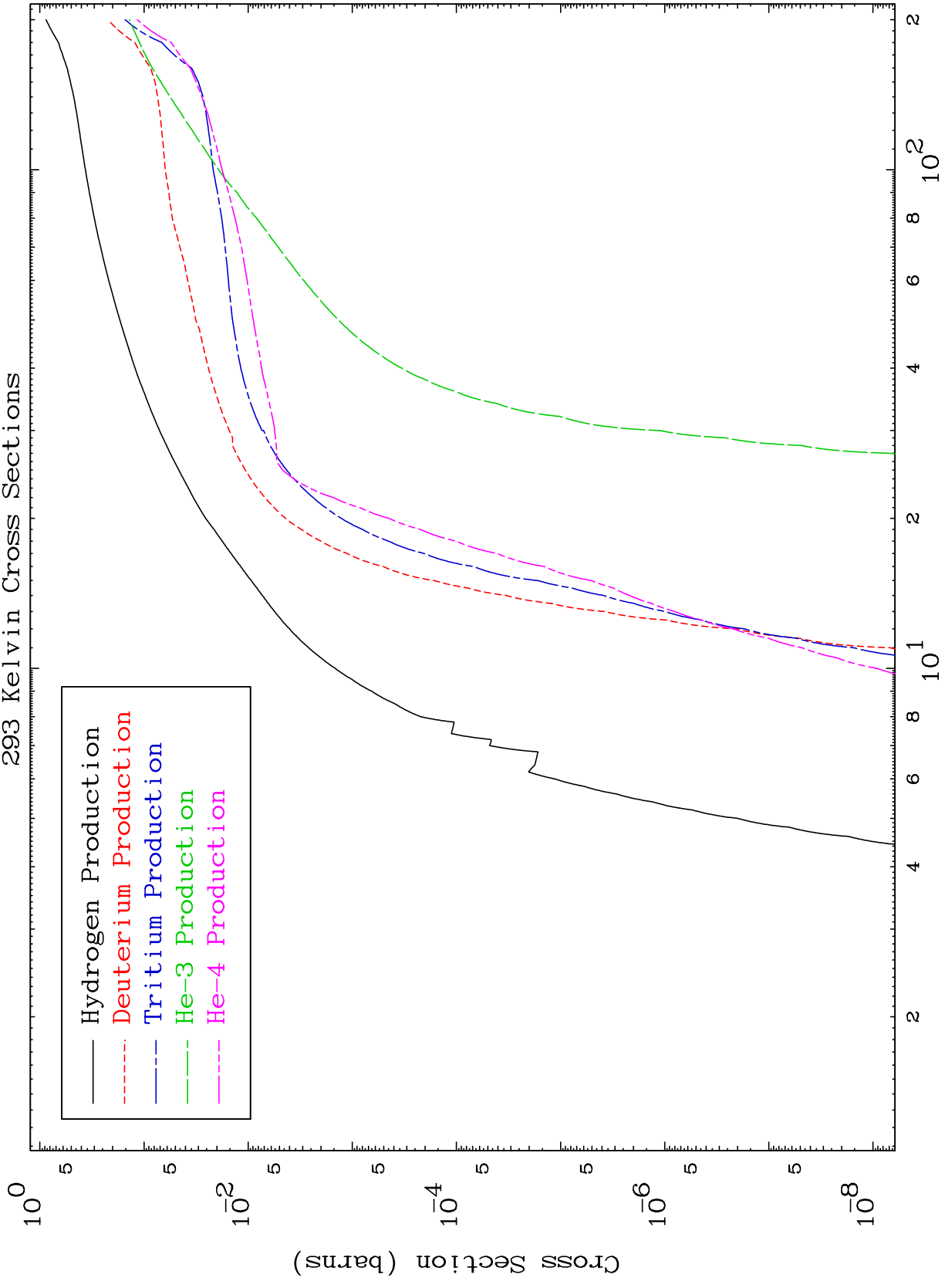
51-Sb-132



MAT 5158

293 Kelvin Production

51-Sb-132

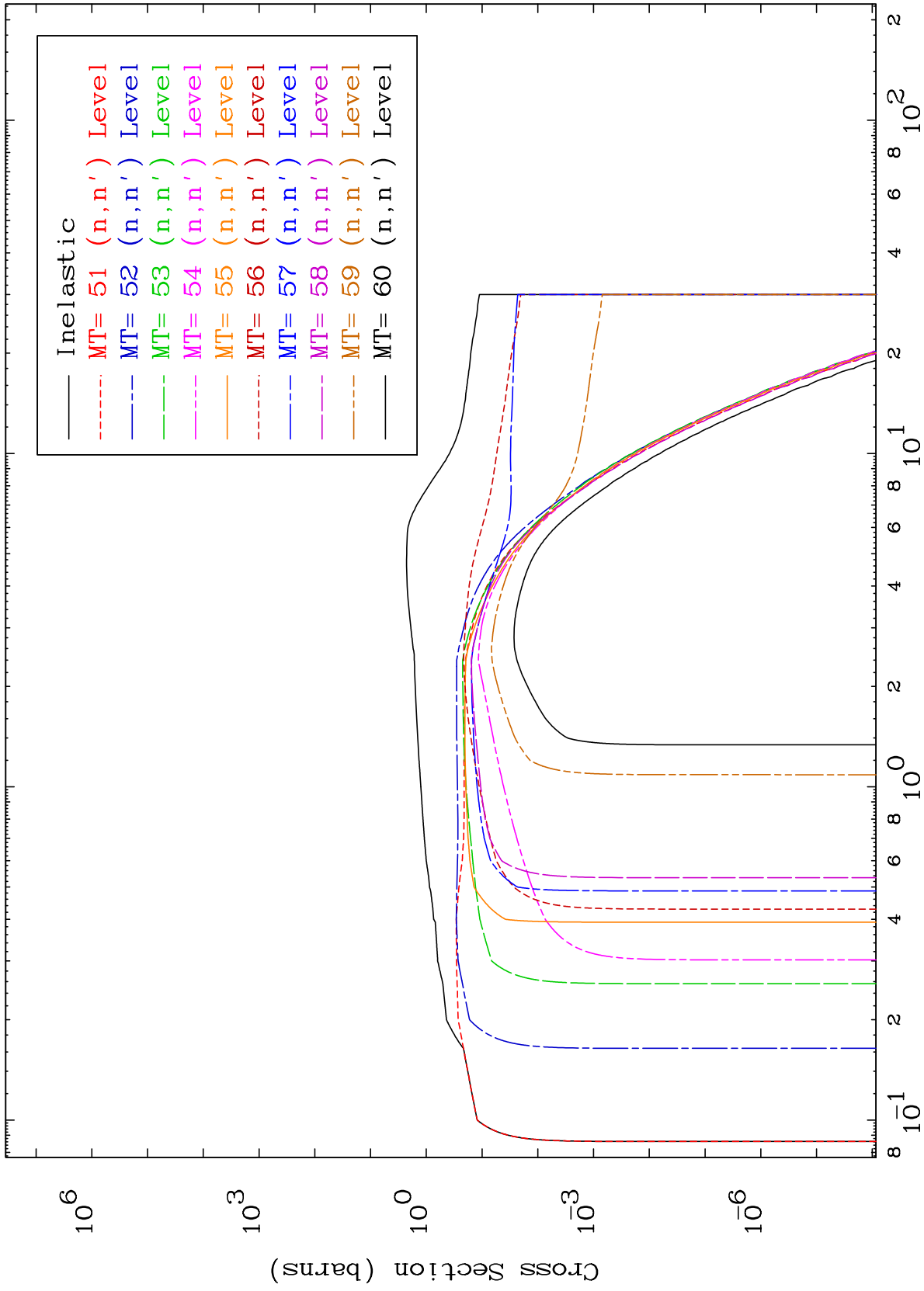


MAT 5158

(n,n') Level

51-Sb-132

293 Kelvin Cross Sections



51-Sb-132

Incident Energy (MeV)

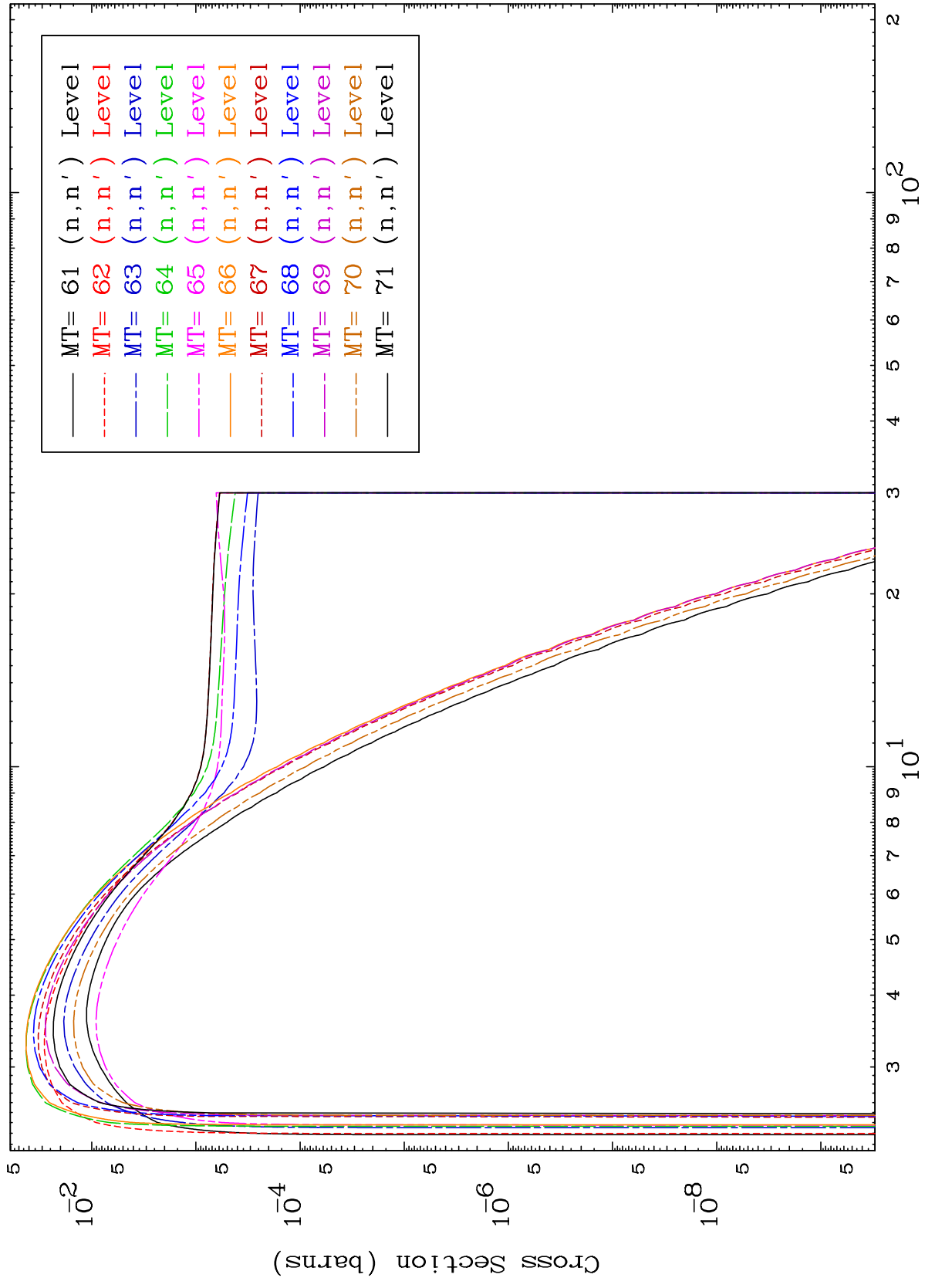
6

MAT 5158

(n,n') Level

51-Sb-132

293 Kelvin Cross Sections

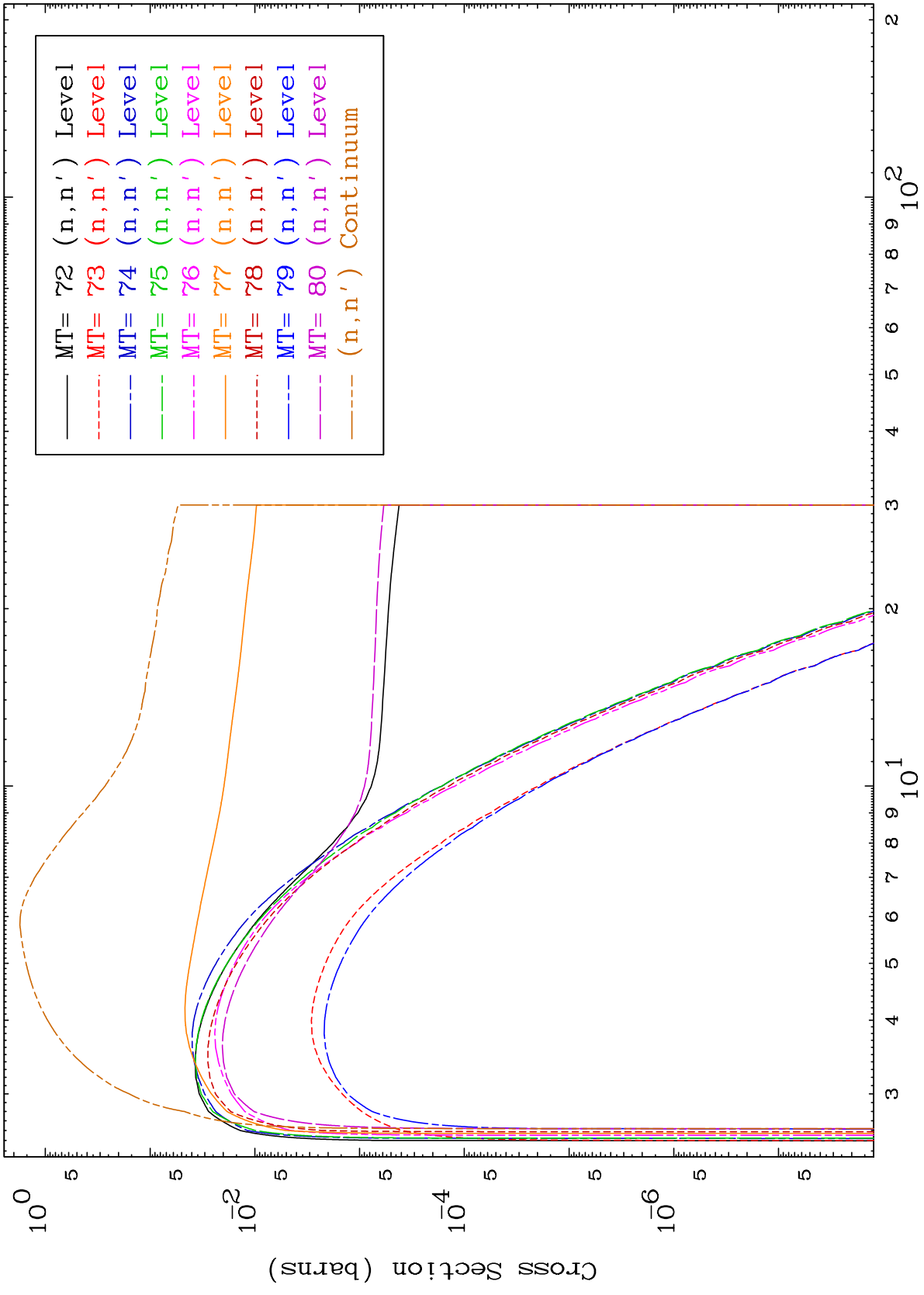


7

Incident Energy (MeV)

51-Sb-132

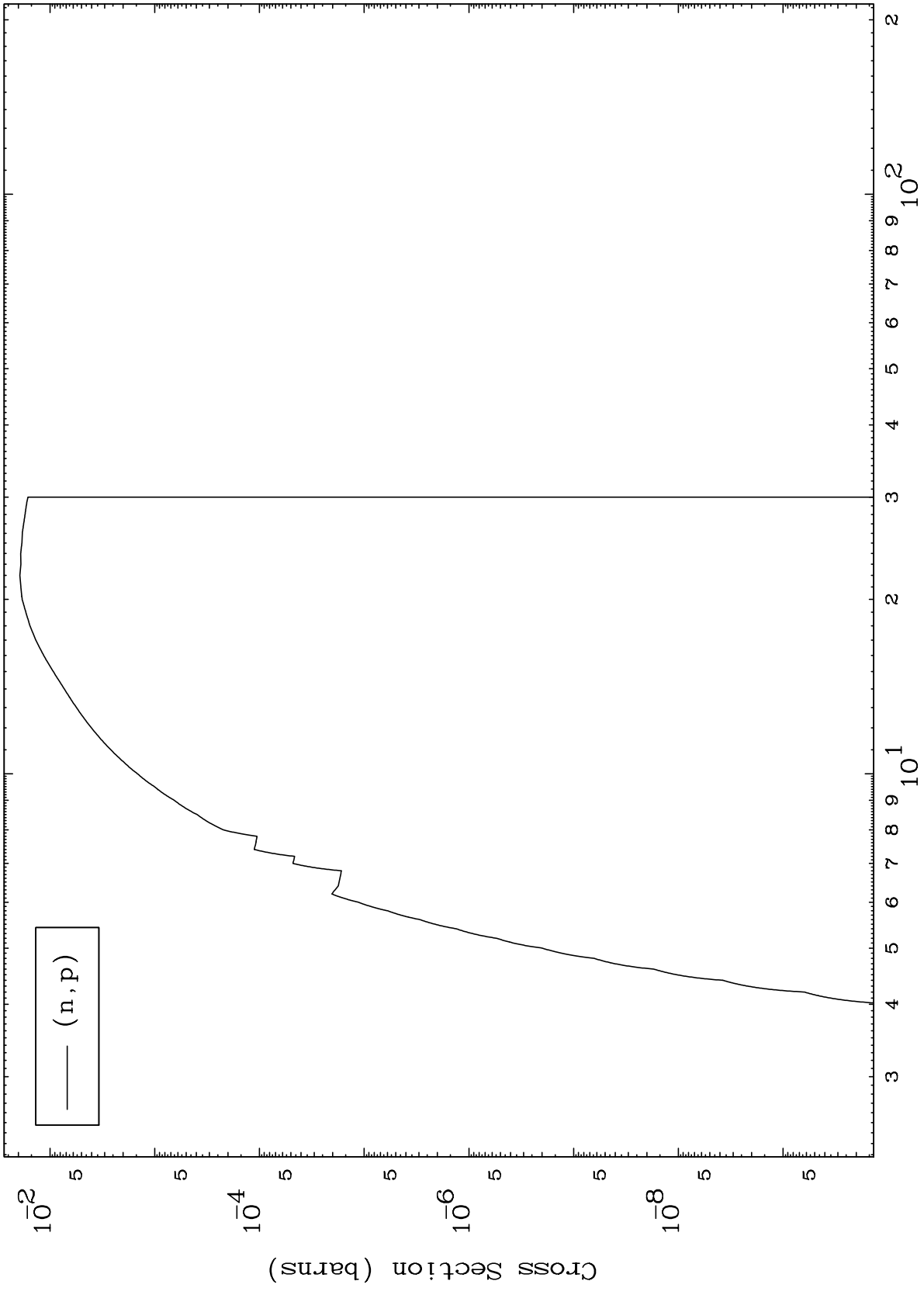




MAT 5158

(n,p) Levels  
293 Kelvin Cross Sections

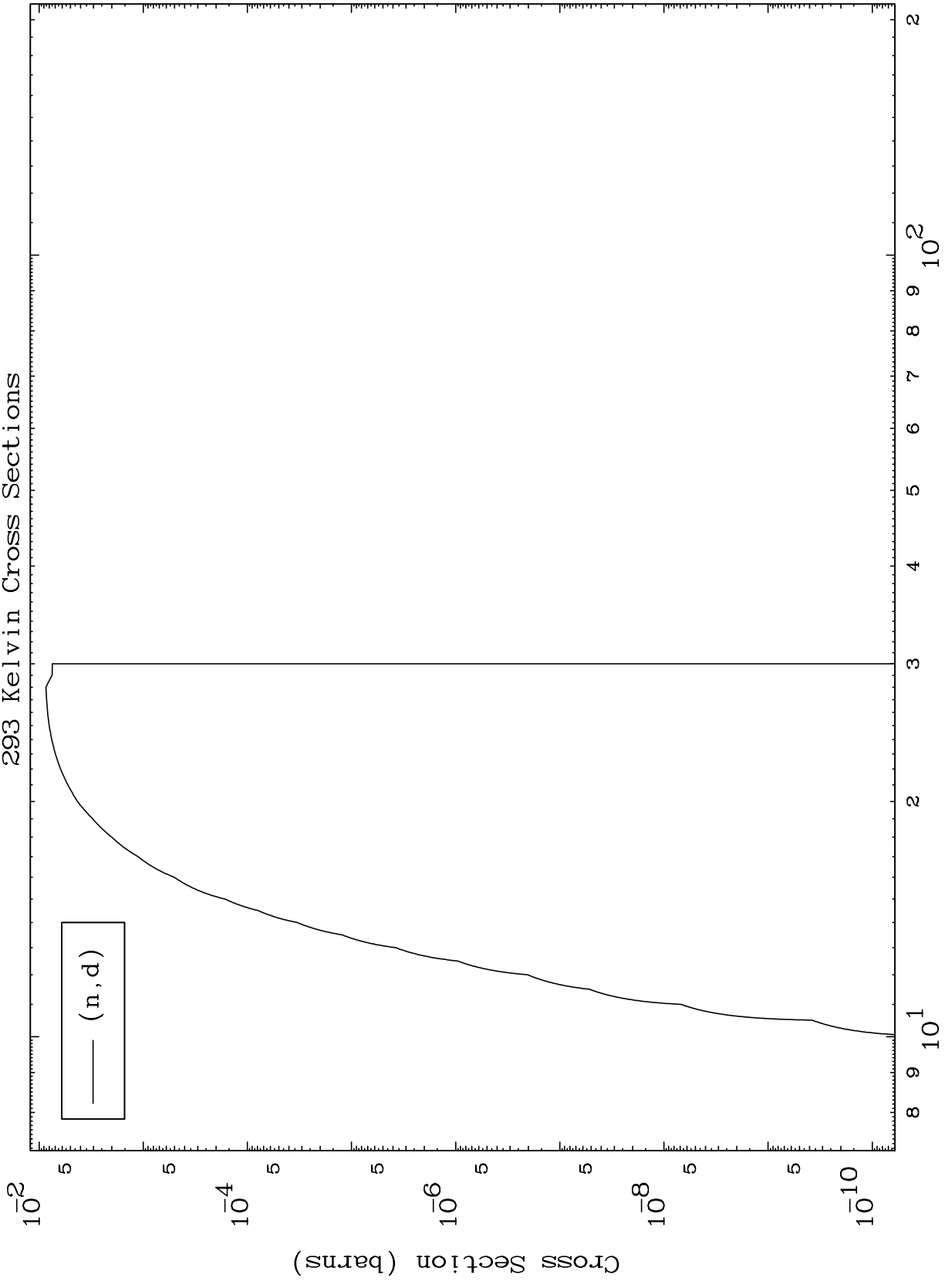
51-Sb-132



MAT 5158

(n,d) Levels  
293 Kelvin Cross Sections

51-Sb-132



10

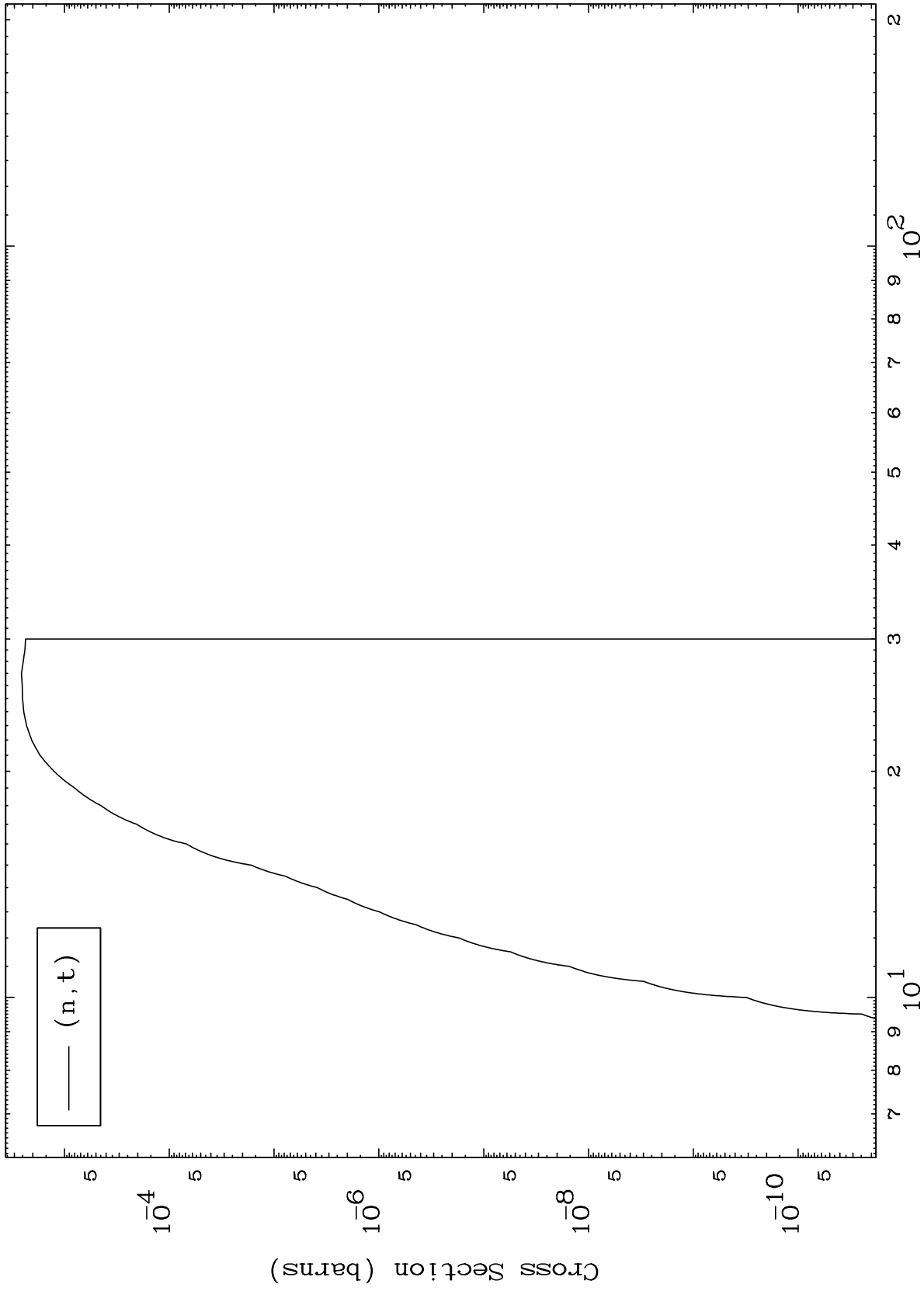
Incident Energy (MeV)

51-Sb-132

MAT 5158

(n,t) Levels  
293 Kelvin Cross Sections

51-Sb-132



11

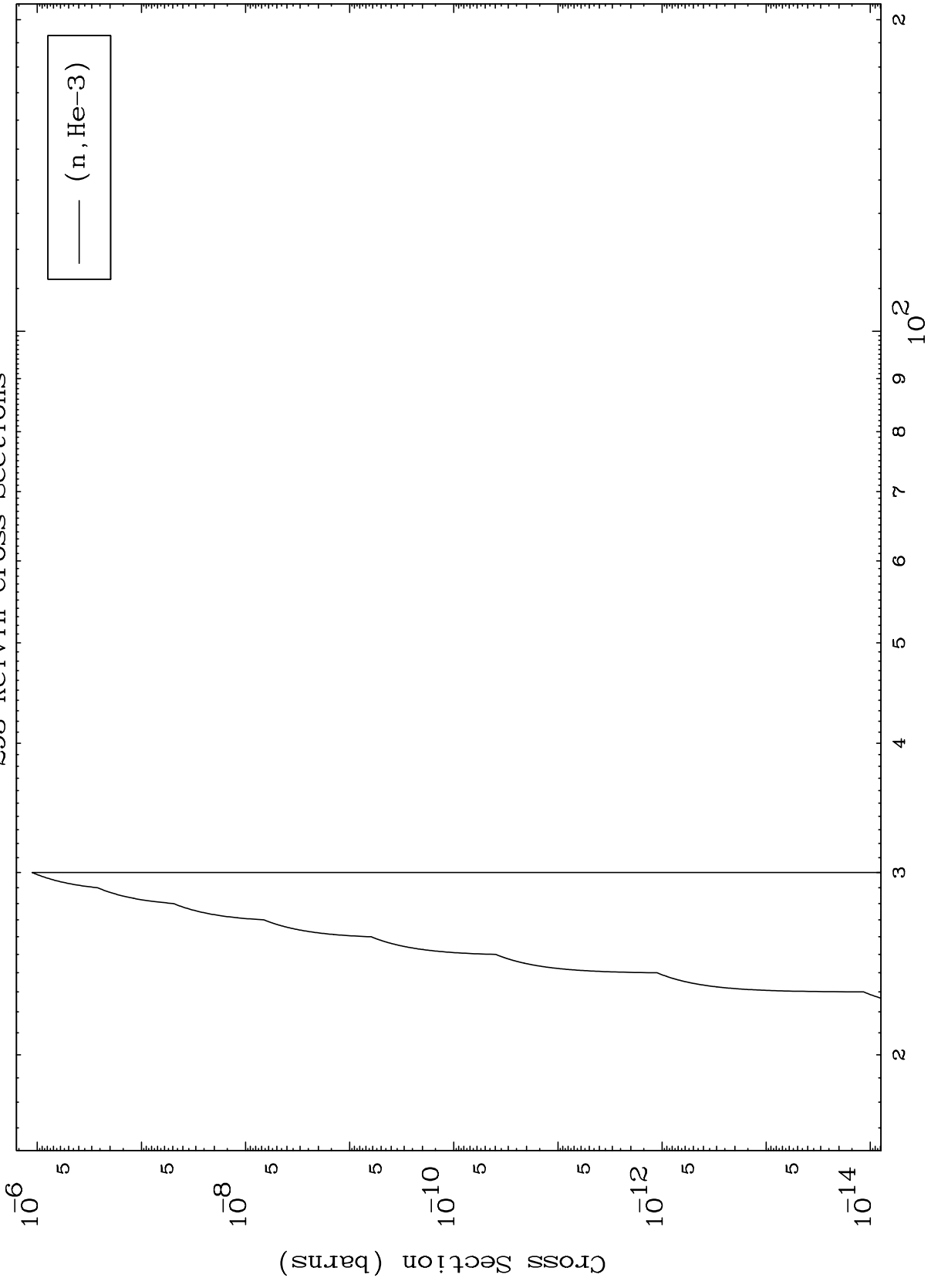
Incident Energy (MeV)

51-Sb-132

MAT 5158

(n,He3) Levels  
293 Kelvin Cross Sections

51-Sb-132



12

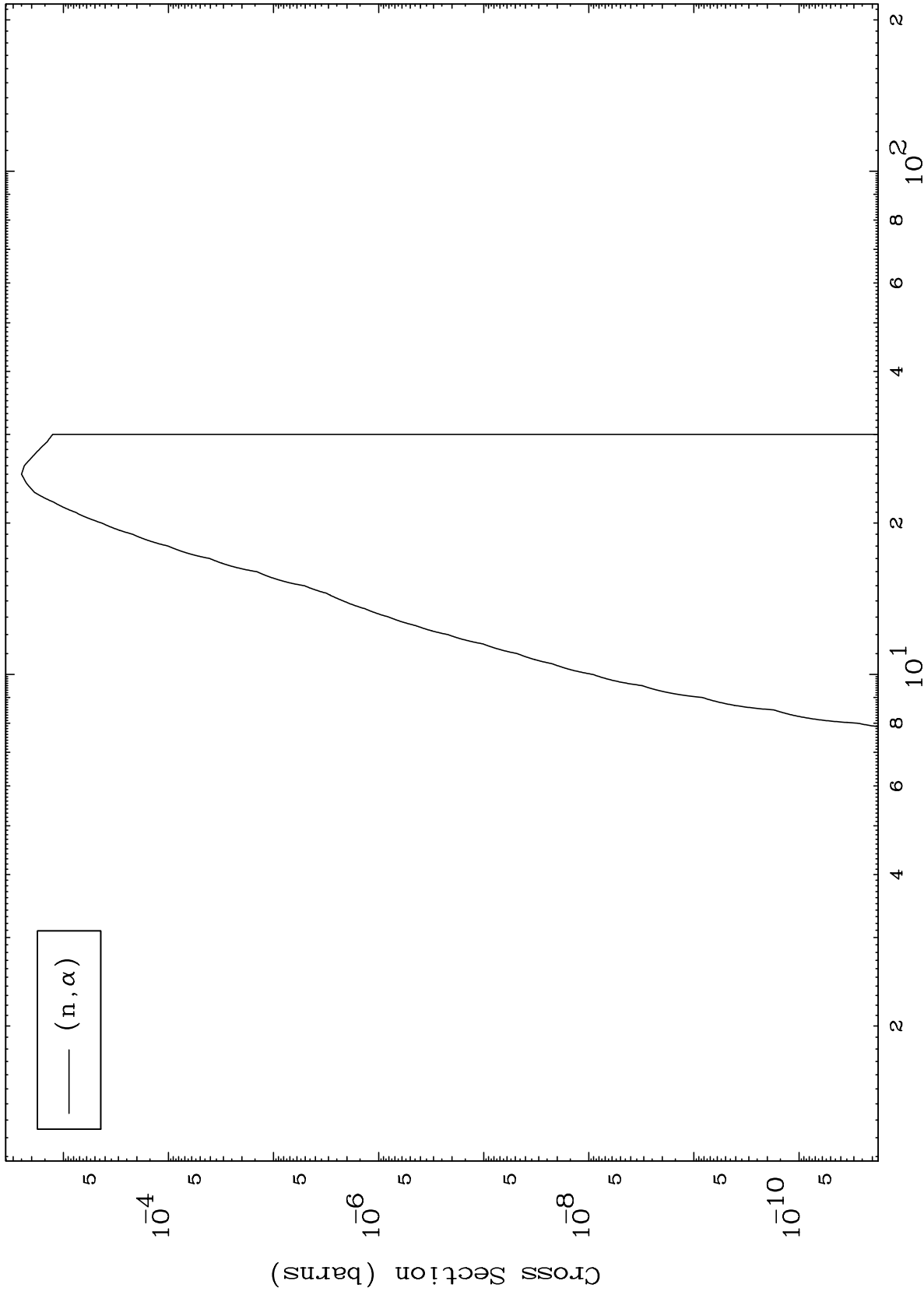
Incident Energy (MeV)

51-Sb-132

MAT 5158

(n,α) Levels  
293 Kelvin Cross Sections

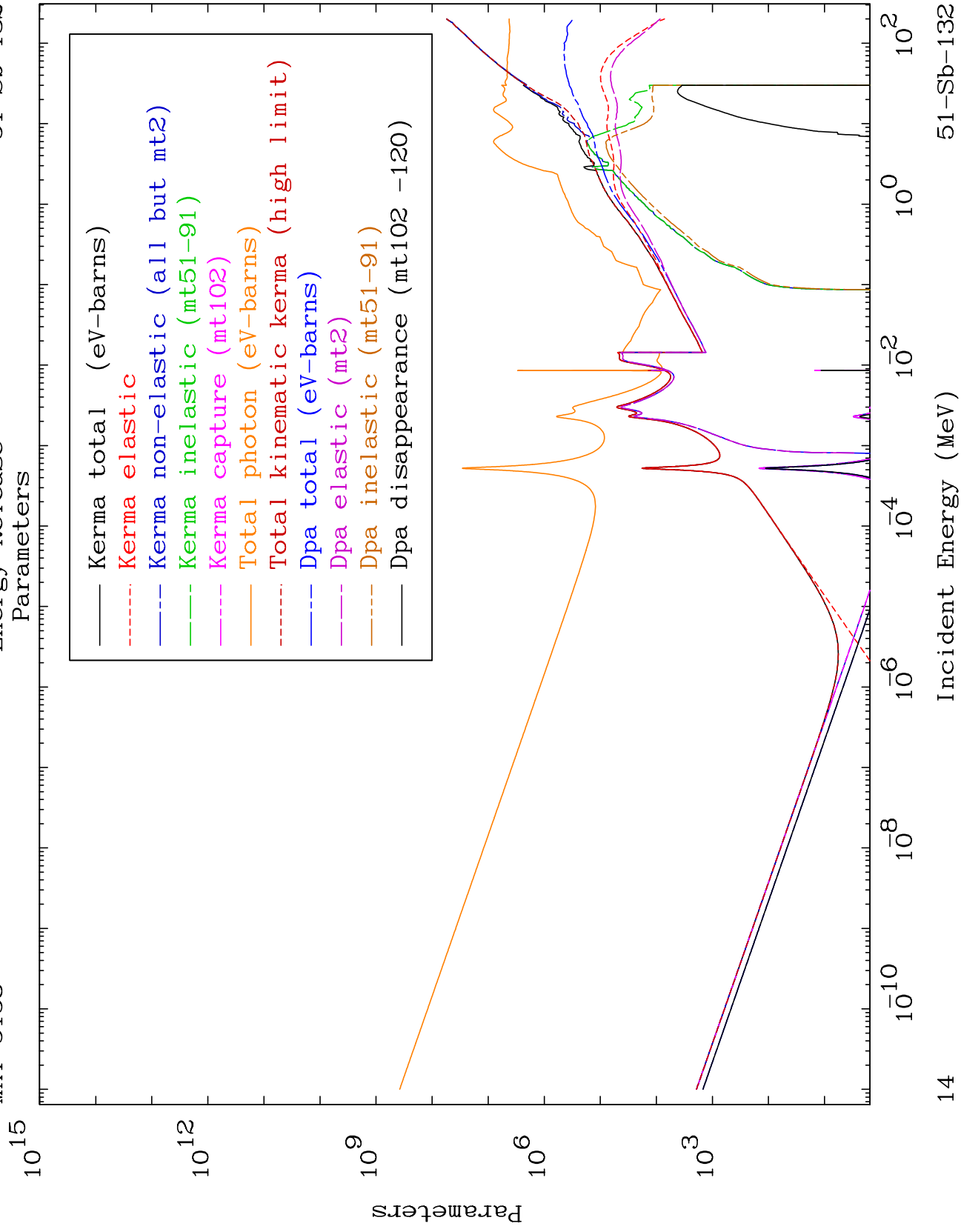
51-Sb-132



13

Incident Energy (MeV)

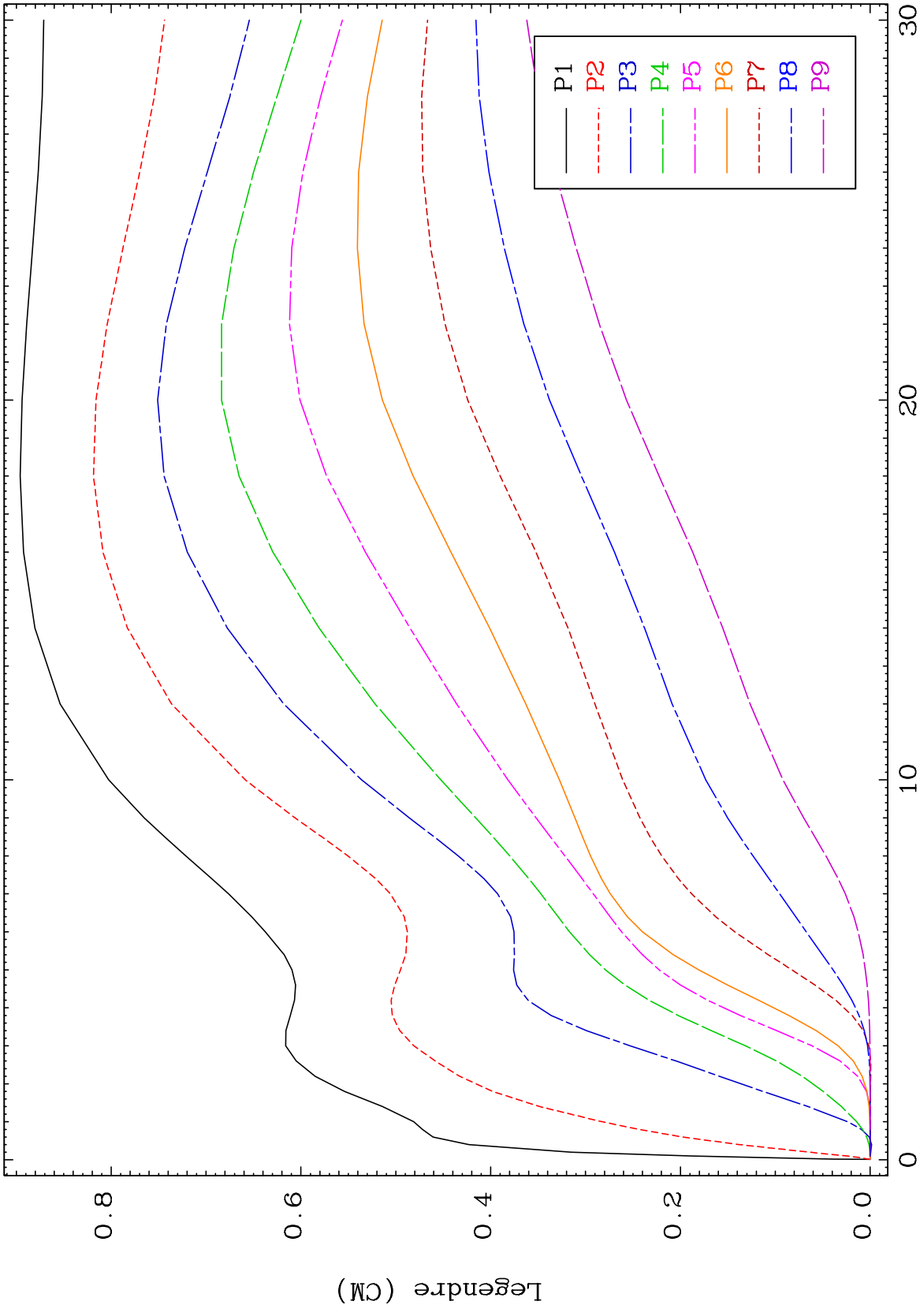
51-Sb-132



MAT 5158

Elastic Legendre Coefficients

51-Sb-132



15

Incident Energy (MeV)

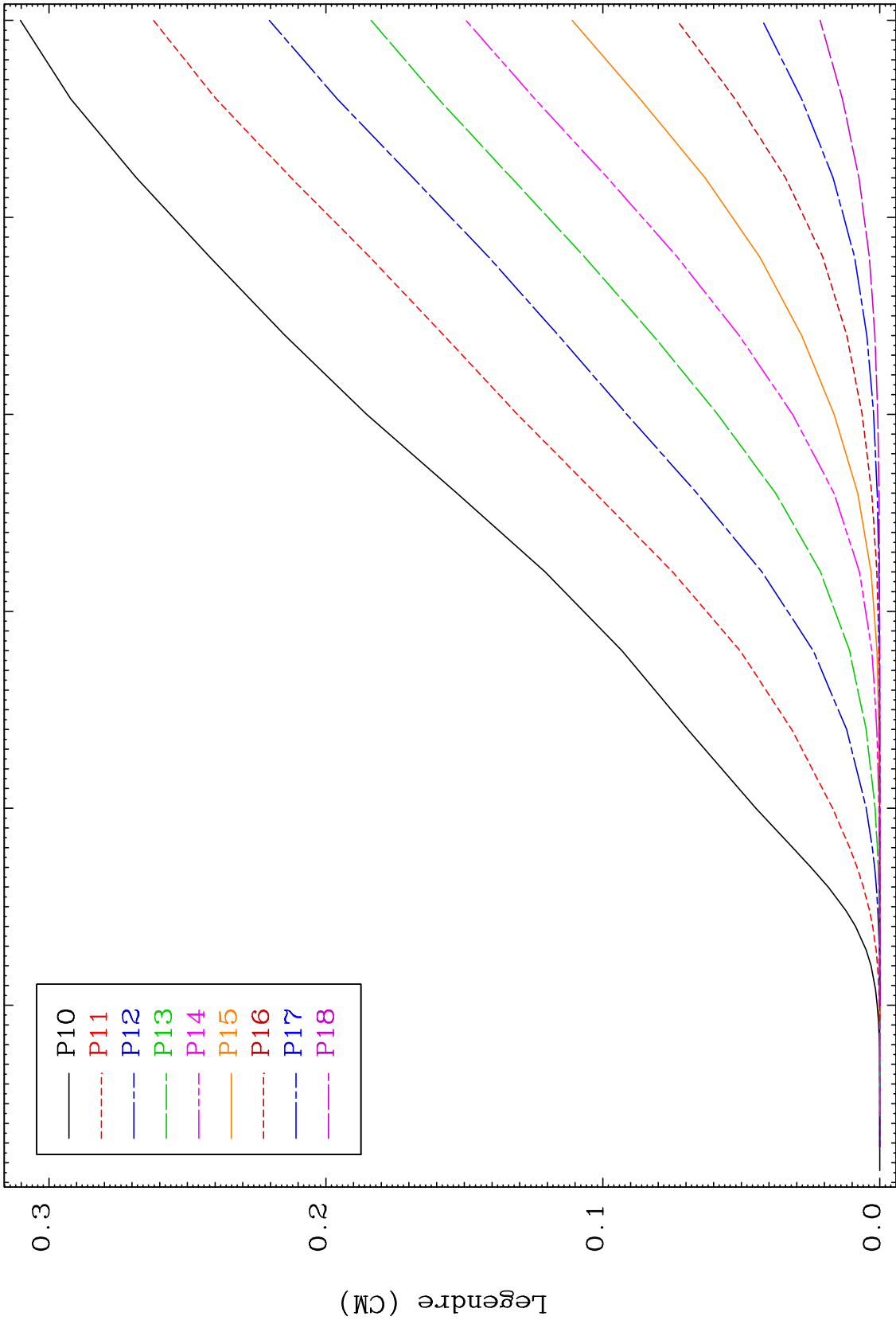
51-Sb-132



MAT 5158

Elastic Legendre Coefficients

51-Sb-132



16

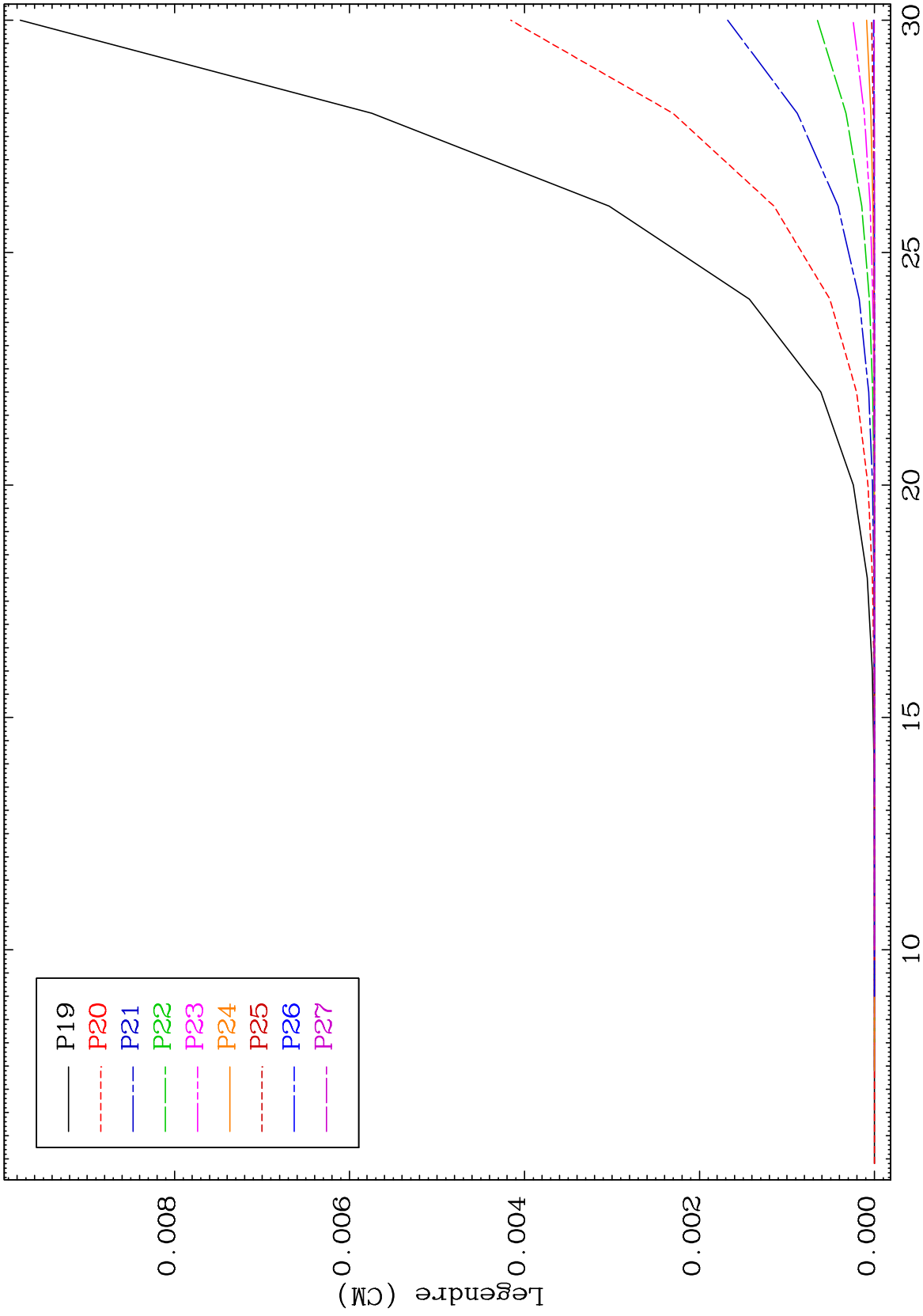
Incident Energy (MeV)

51-Sb-132

MAT 5158

### Elastic Legendre Coefficients

51-Sb-132



17

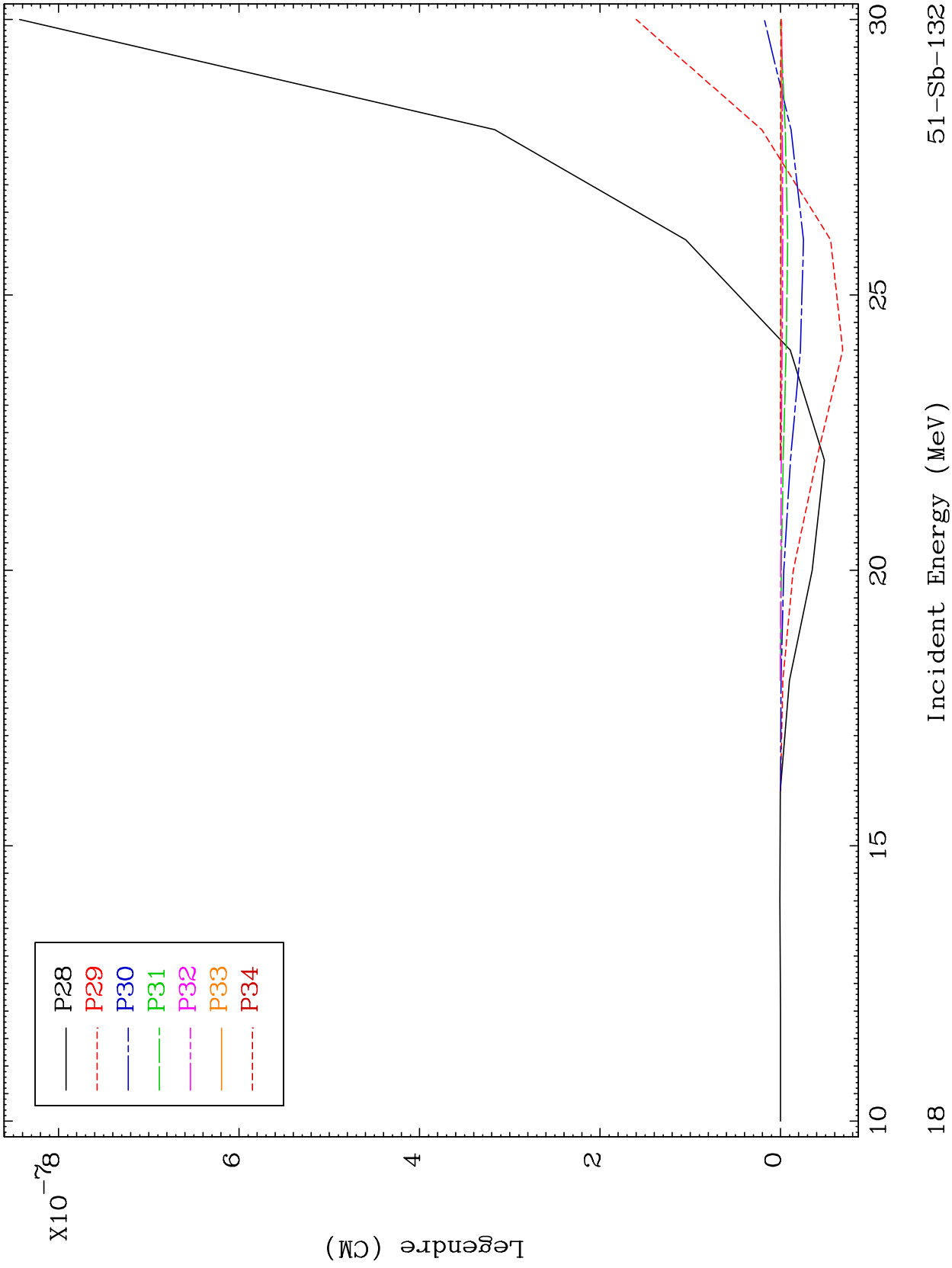
Incident Energy (MeV)

51-Sb-132

MAT 5158

Elastic Legendre Coefficients

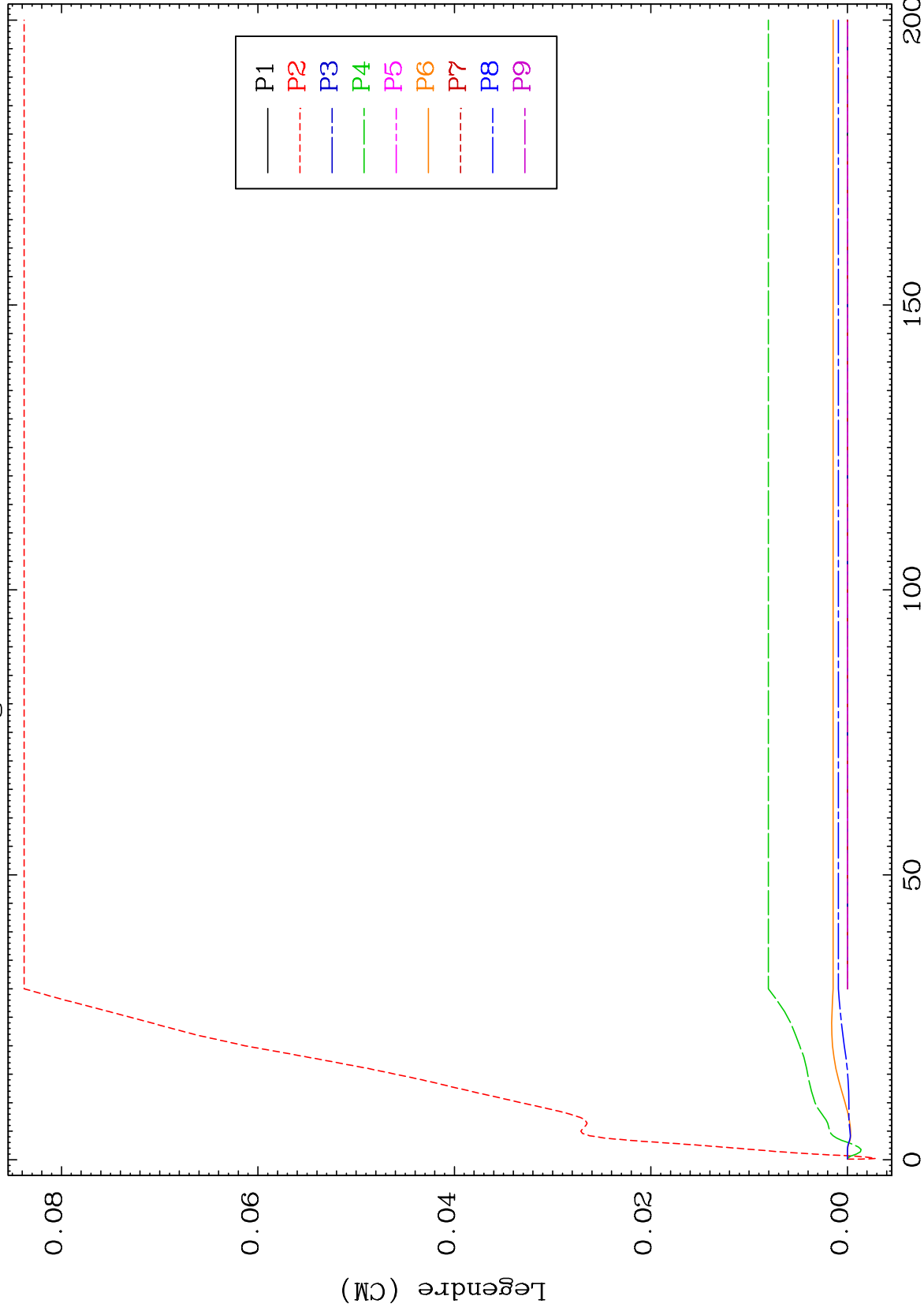
51-Sb-132



MAT 5158

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

51-Sb-132



19

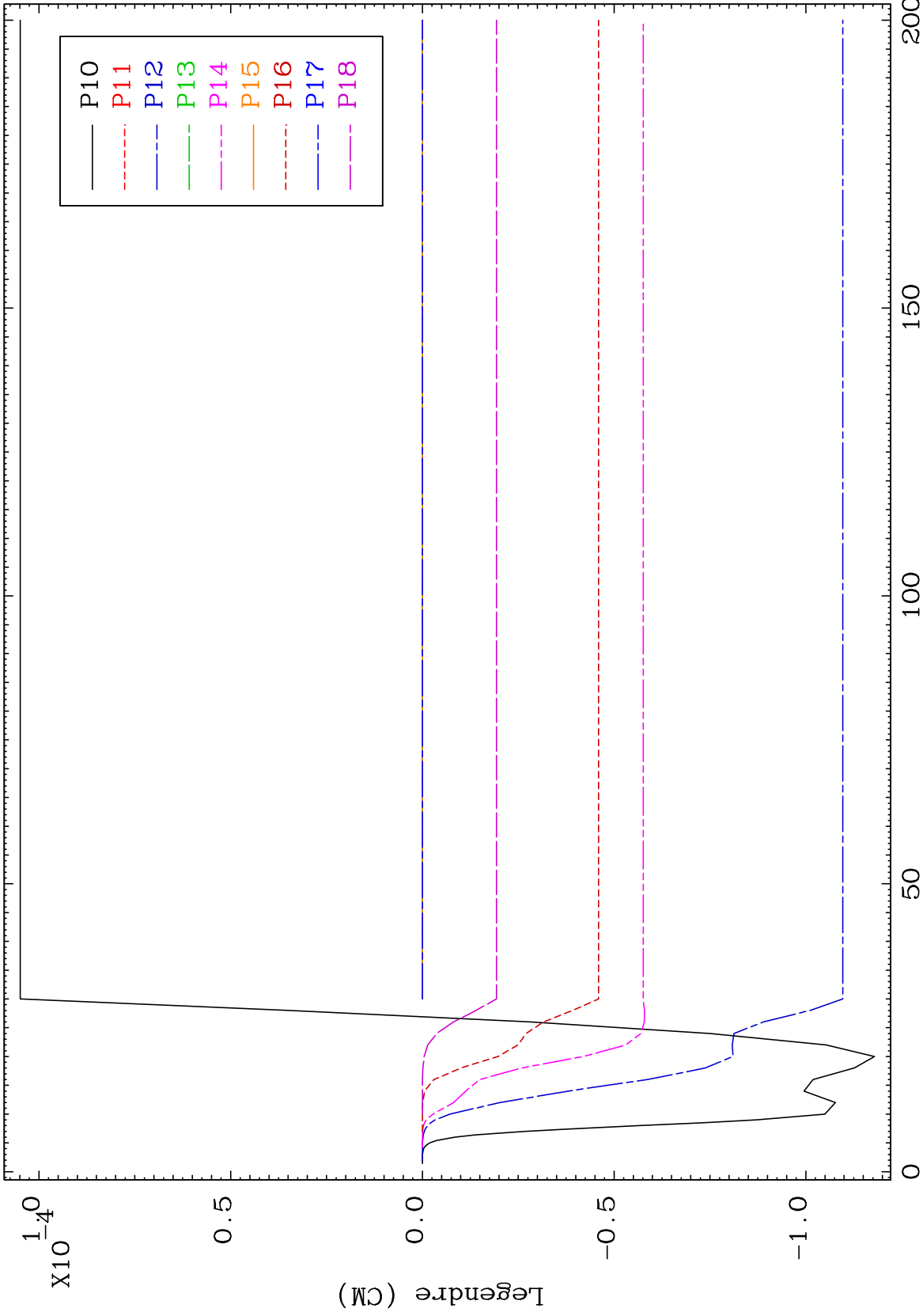
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



51-Sb-132

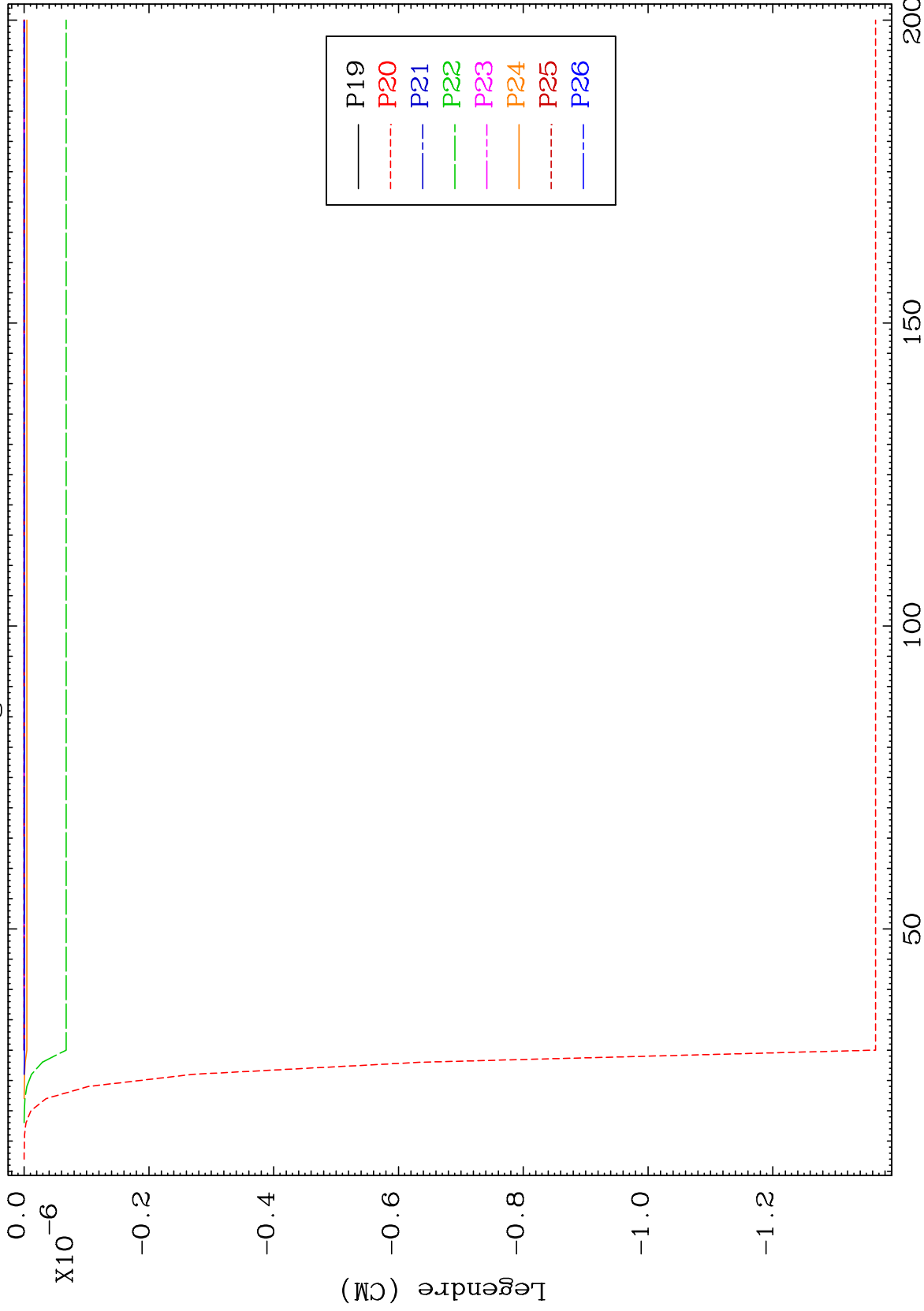
Incident Energy (MeV)

20

MAT 5158

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

51-Sb-132



21

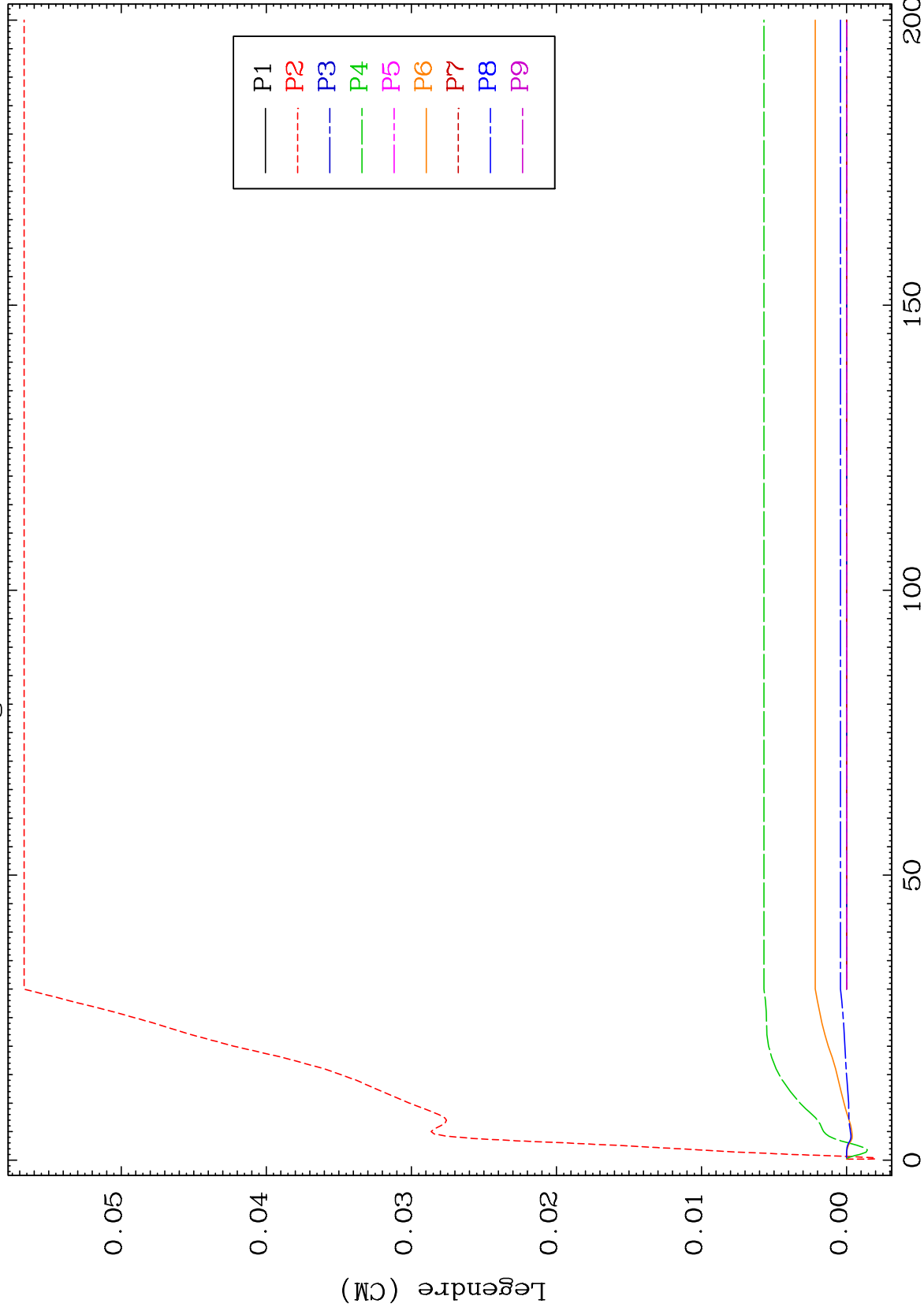
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

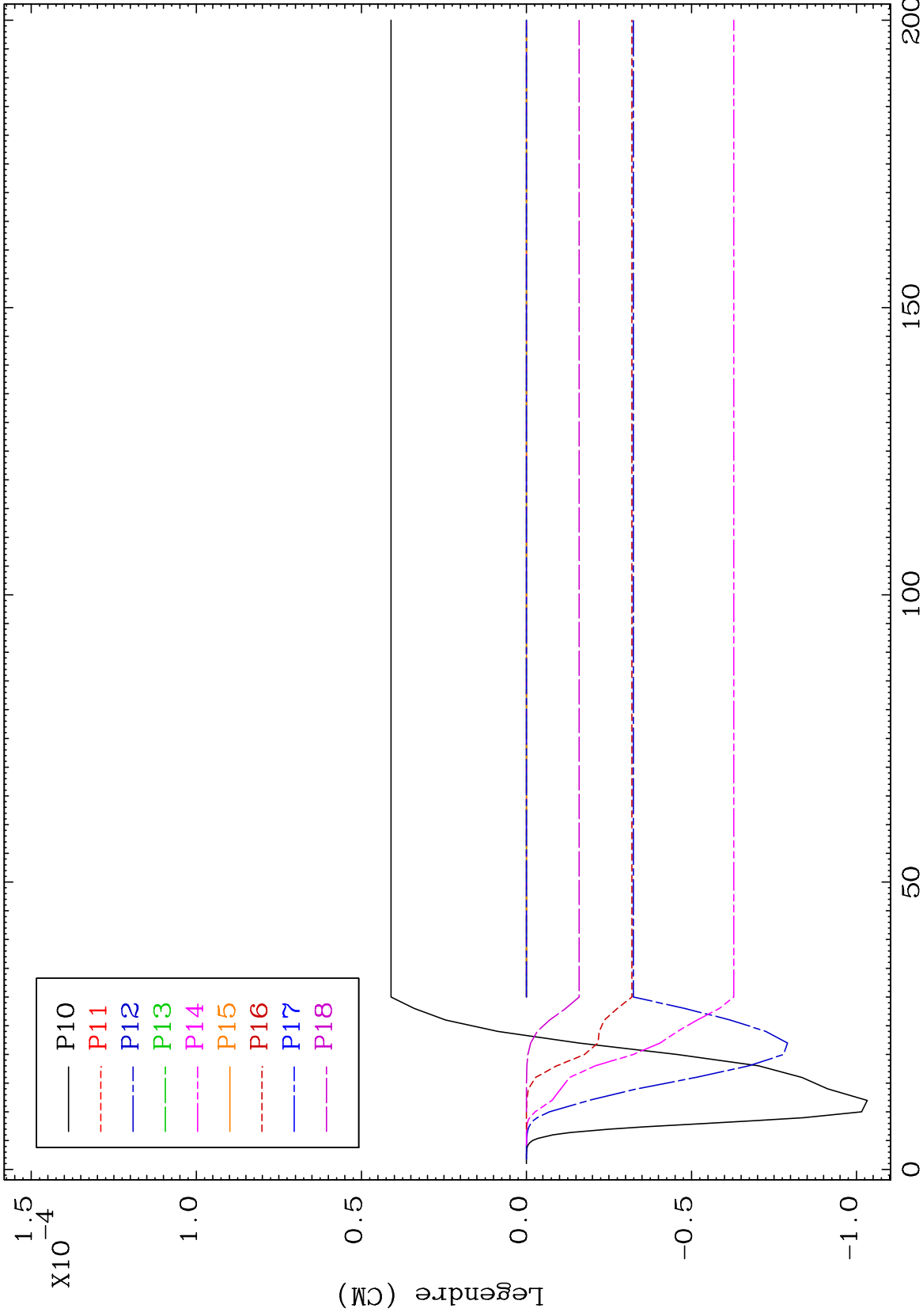
51-Sb-132



22

Incident Energy (MeV)

51-Sb-132

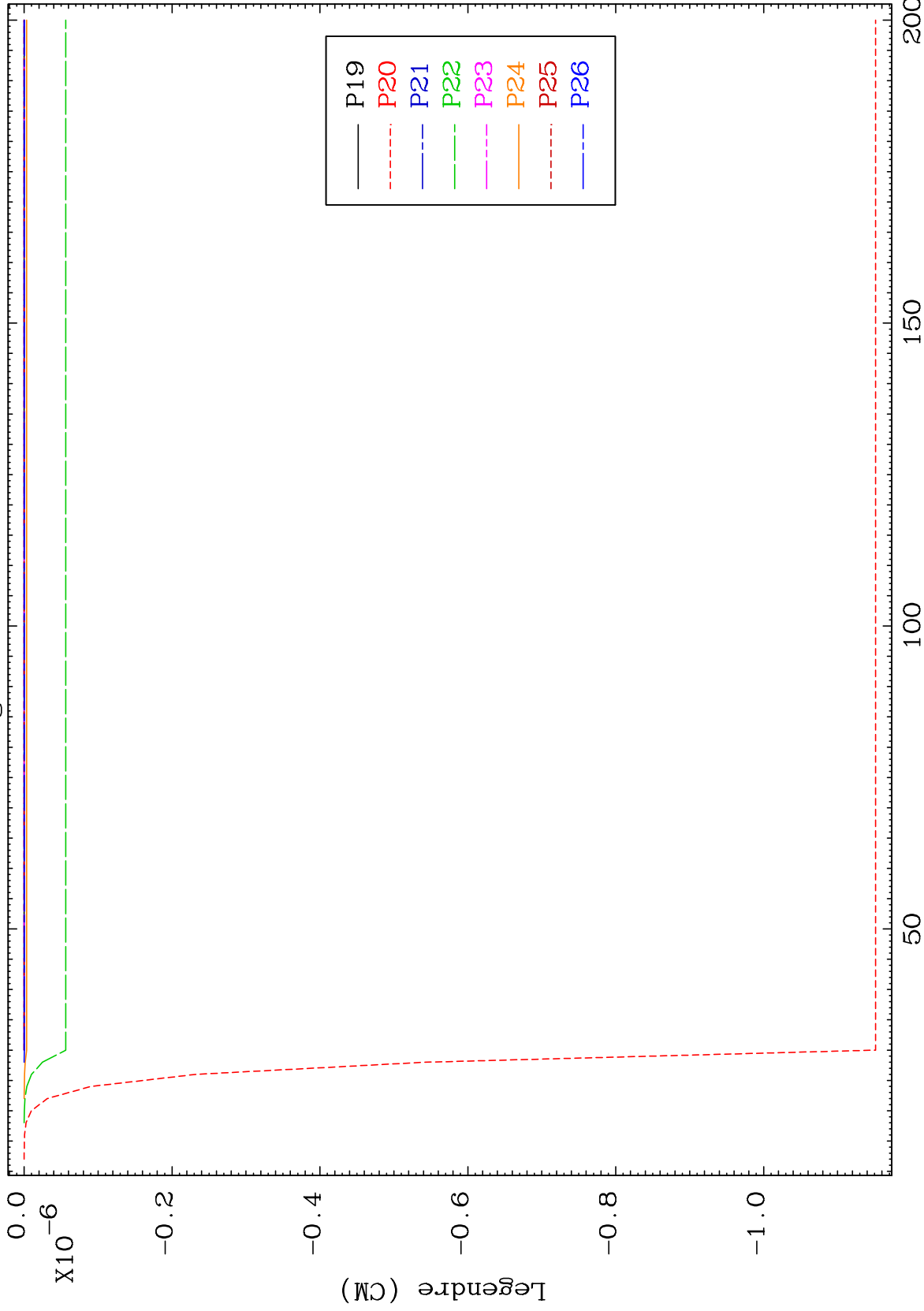




MAT 5158

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

51-Sb-132

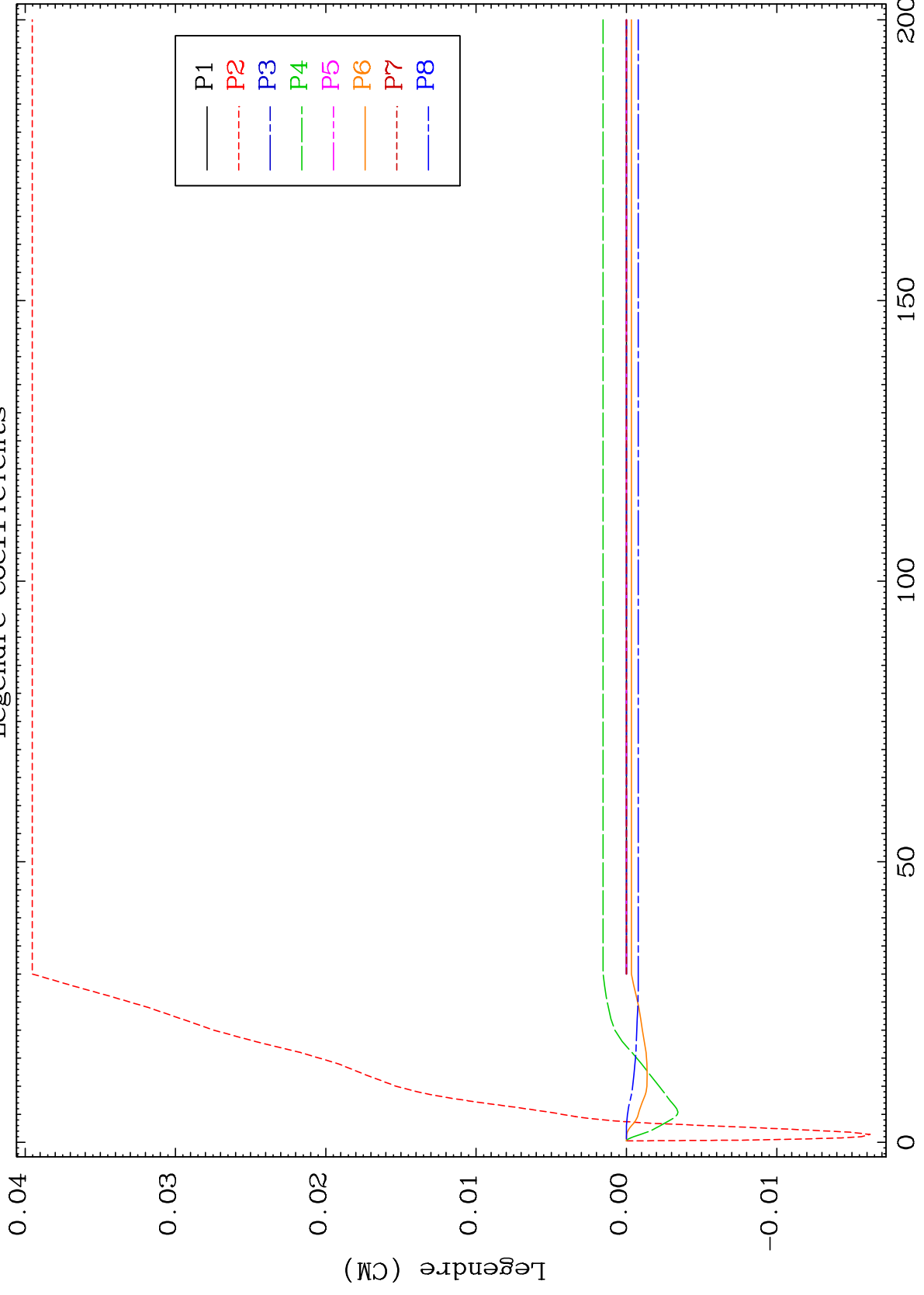


24

Incident Energy (MeV)

51-Sb-132

MAT 5158 MT= 53 (n,n') Level Legendre Coefficients 51-Sb-132

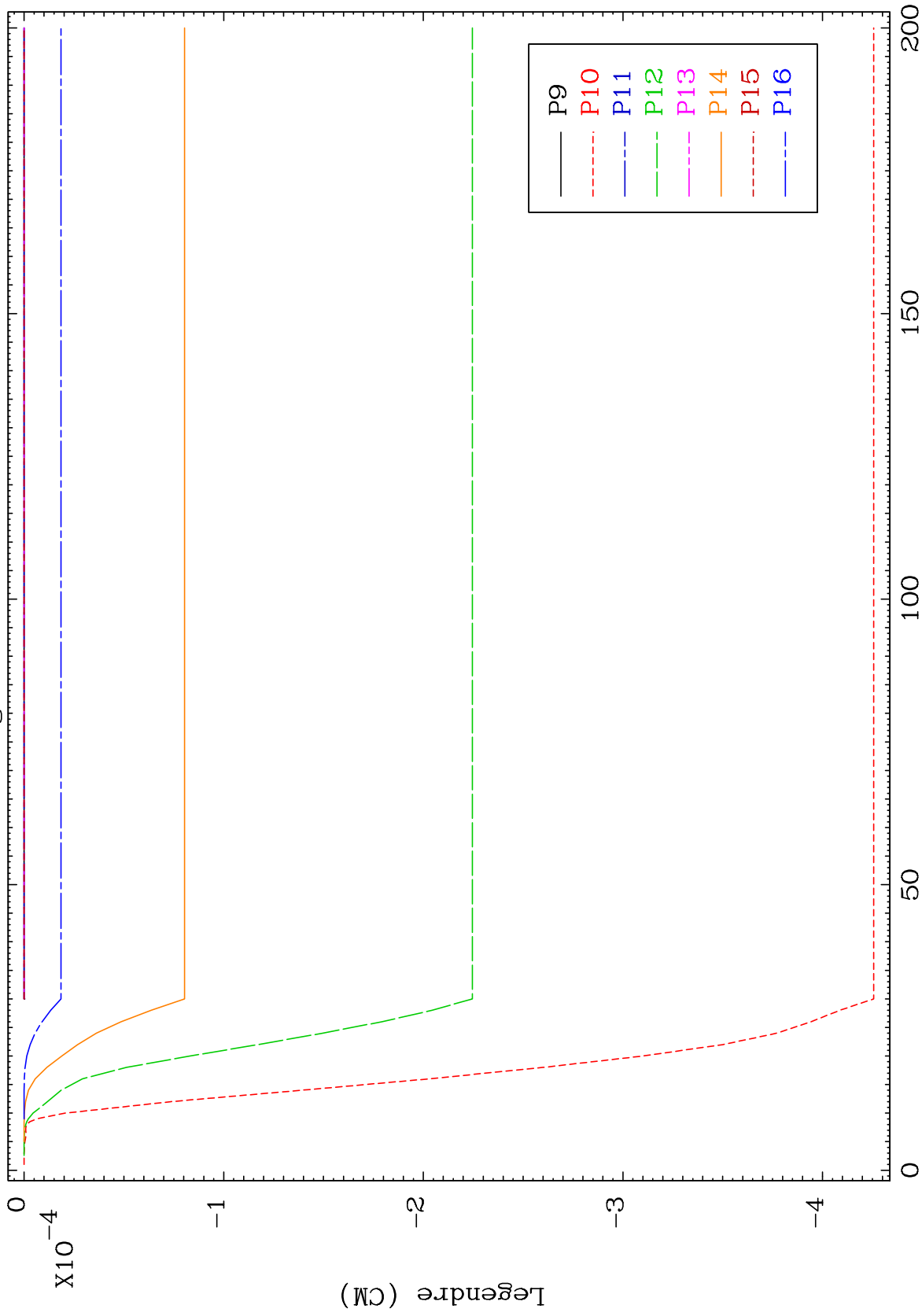


51-Sb-132

MAT 5158

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

51-Sb-132



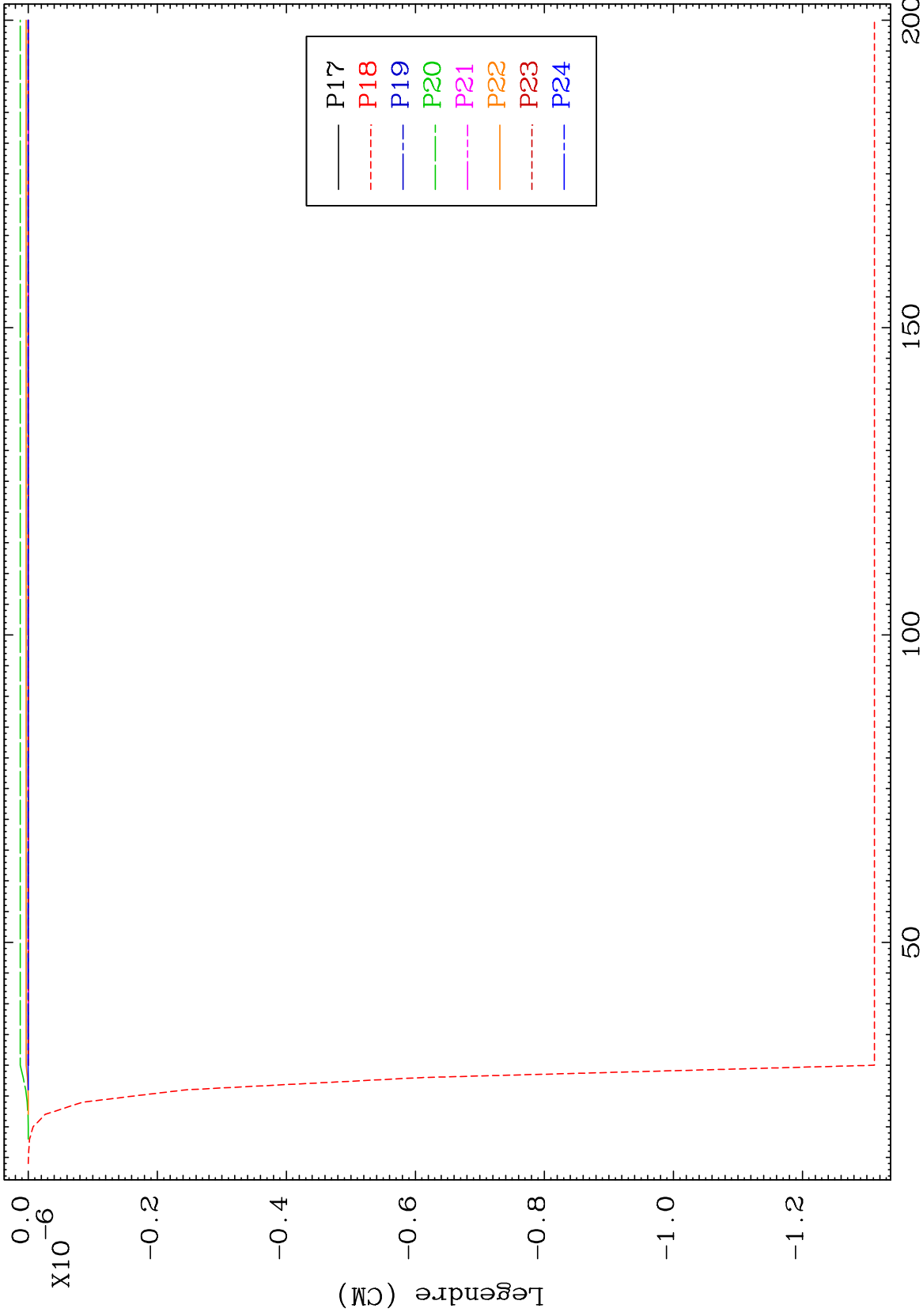
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51-Sb-132

MAT 5158

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

51-Sb-132



27

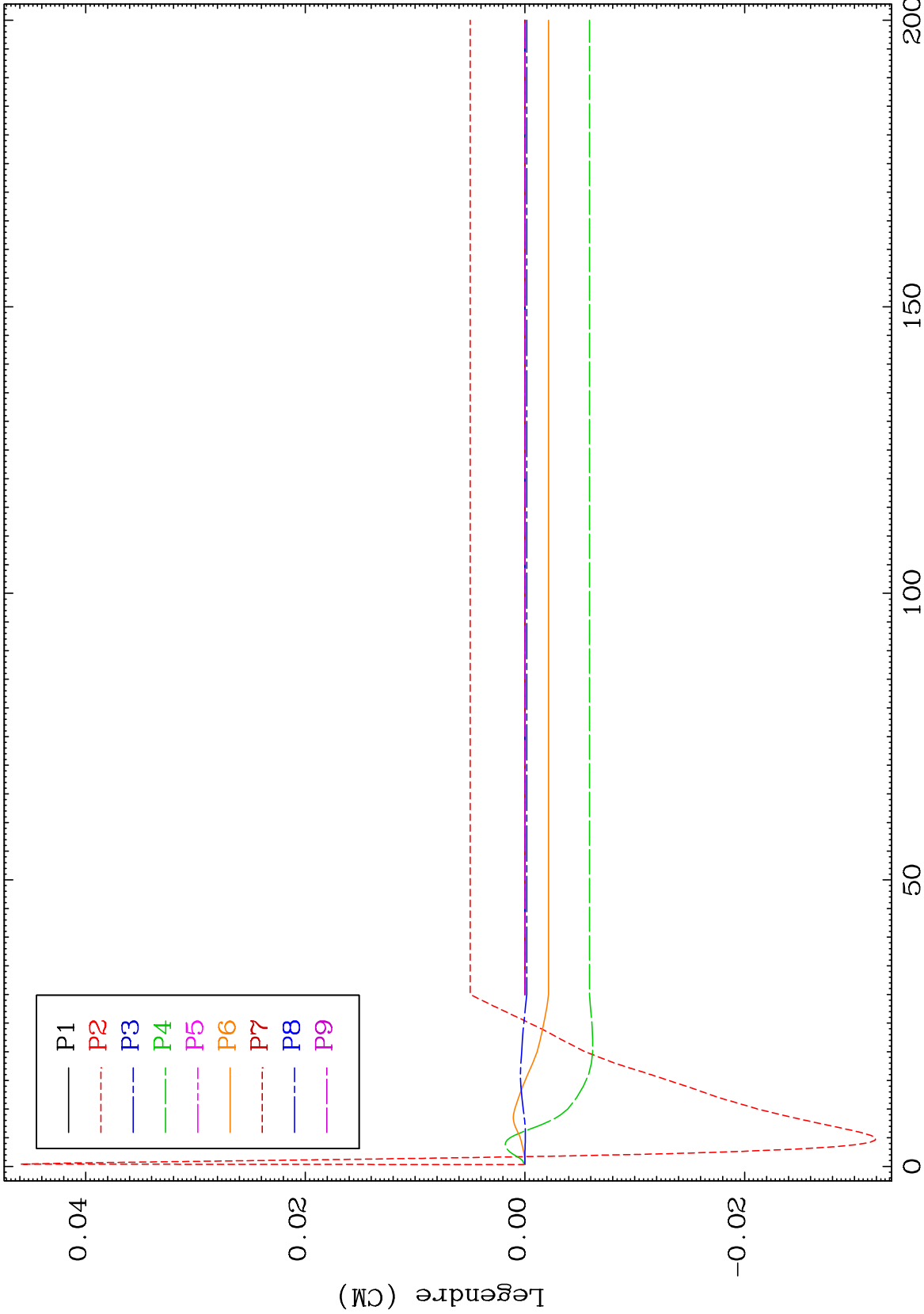
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



28

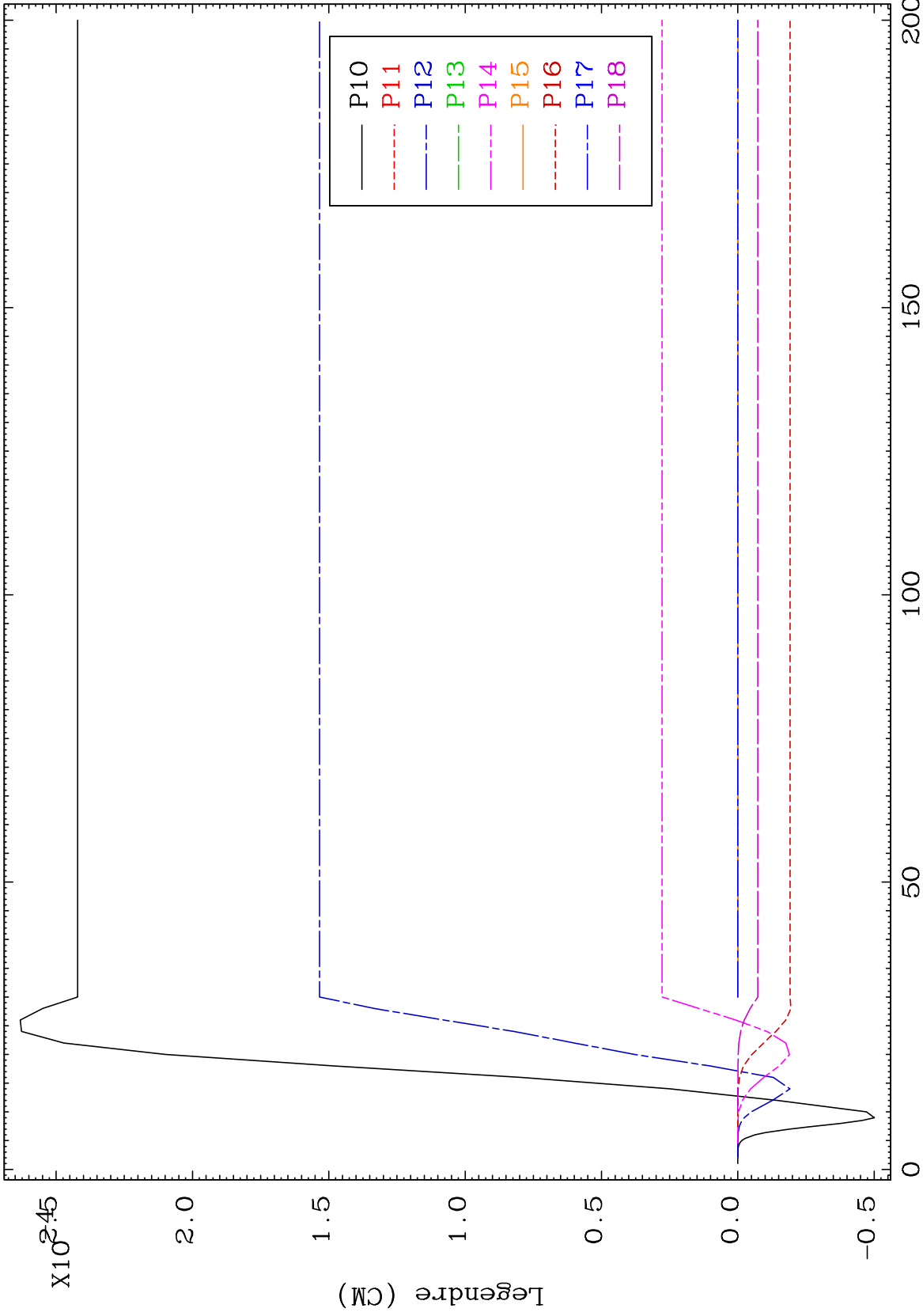
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



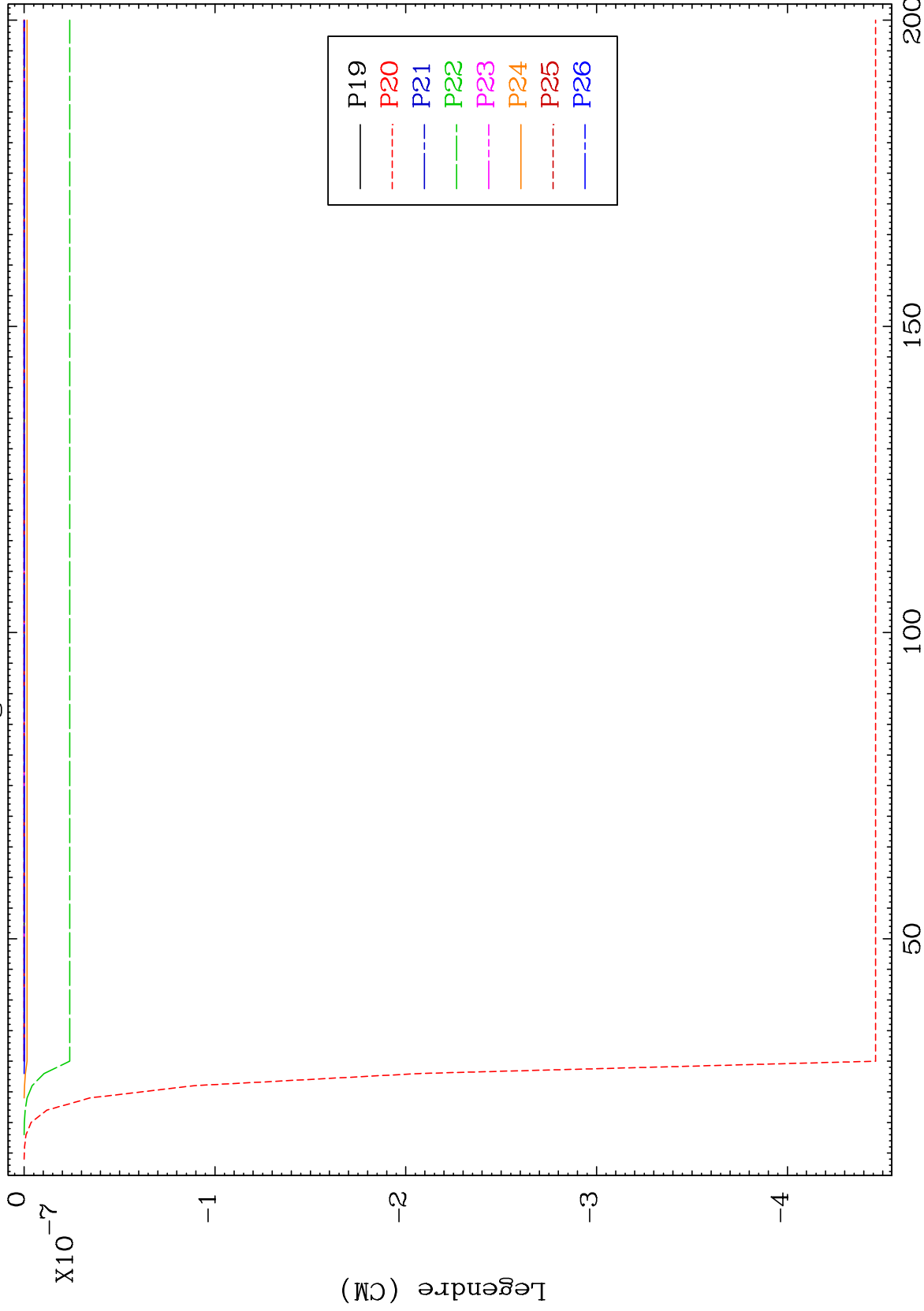
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51-Sb-132

MAT 5158

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

51-Sb-132



30

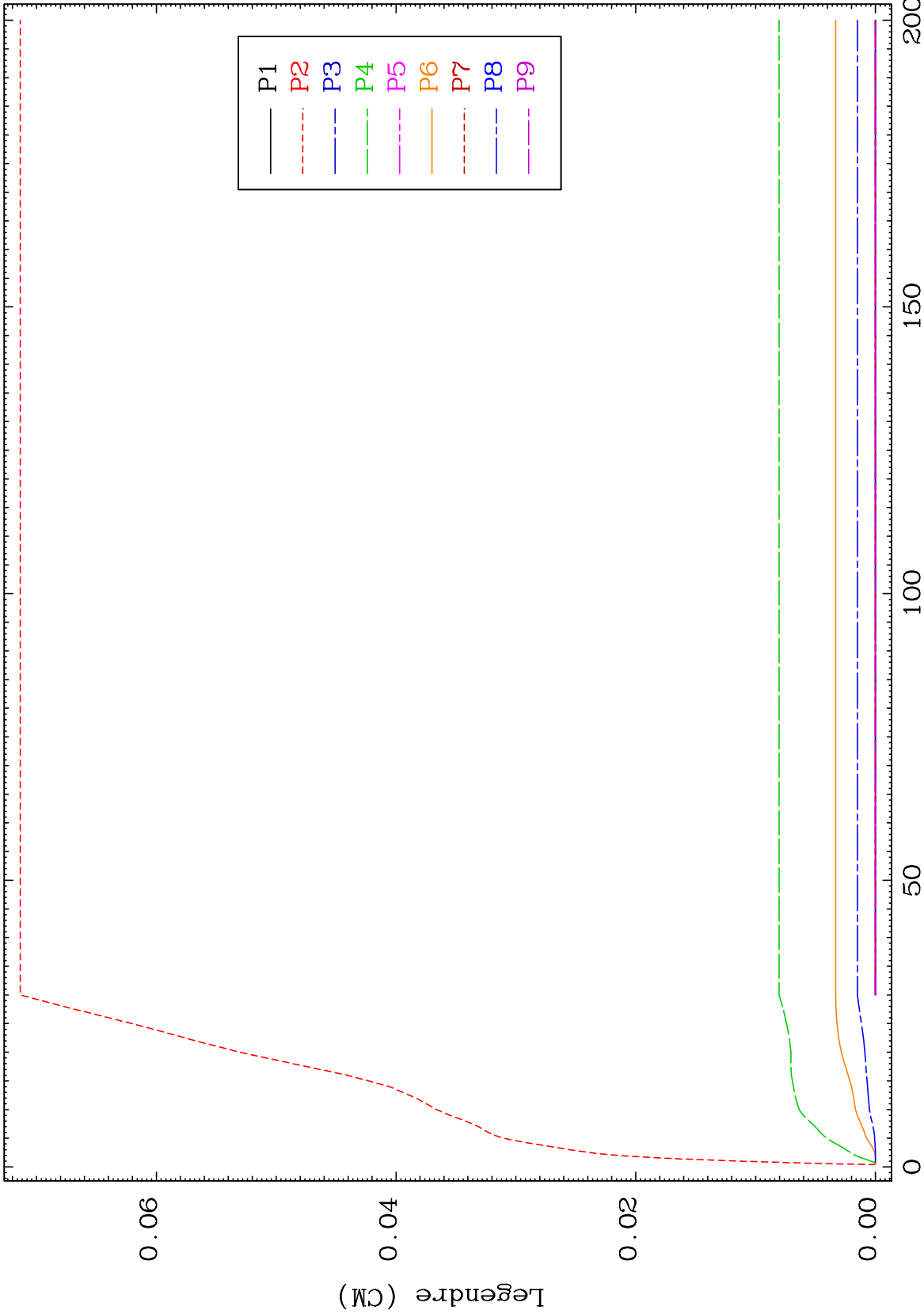
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



31

Incident Energy (MeV)

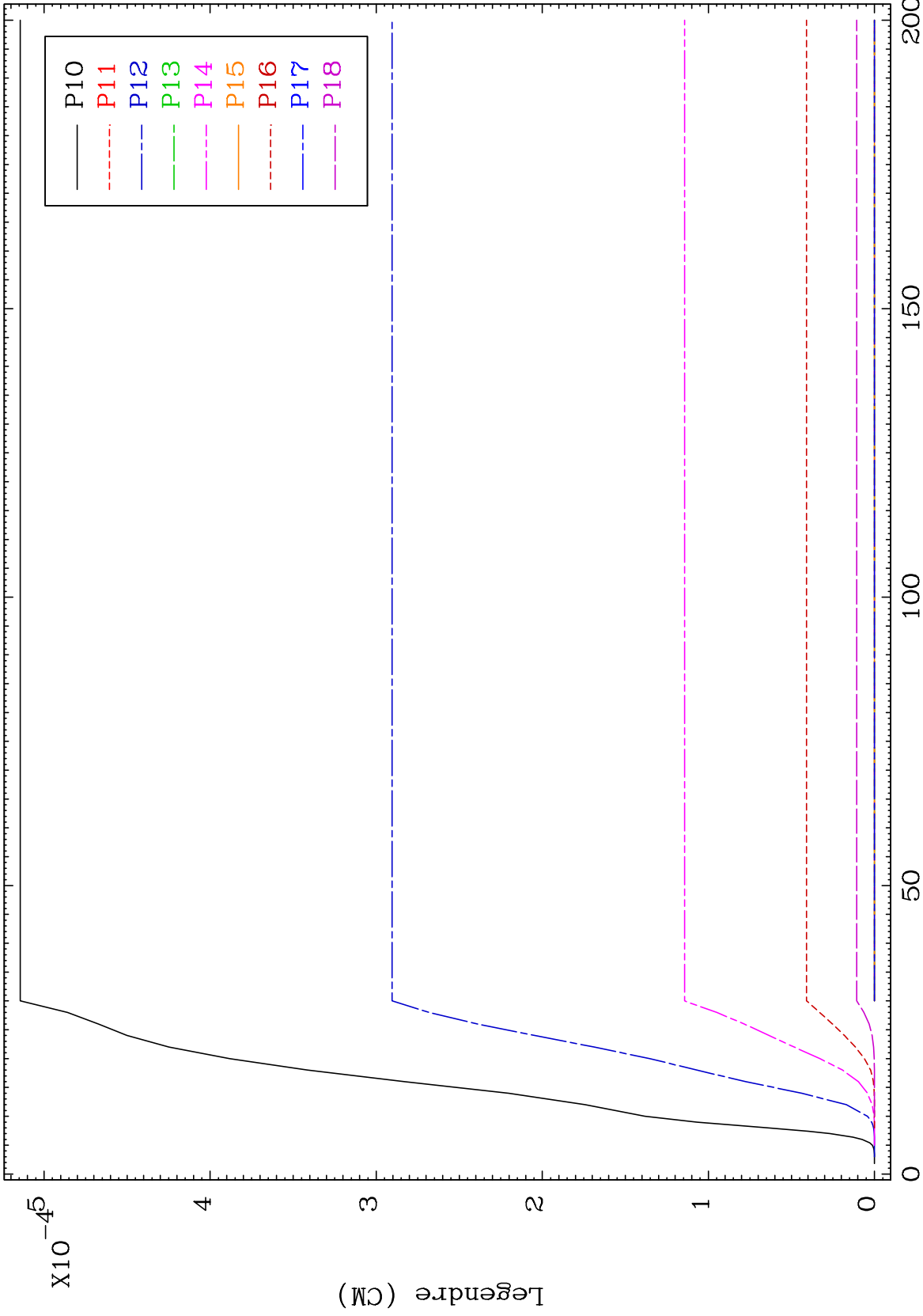
51-Sb-132



MAT 5158

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

51-Sb-132



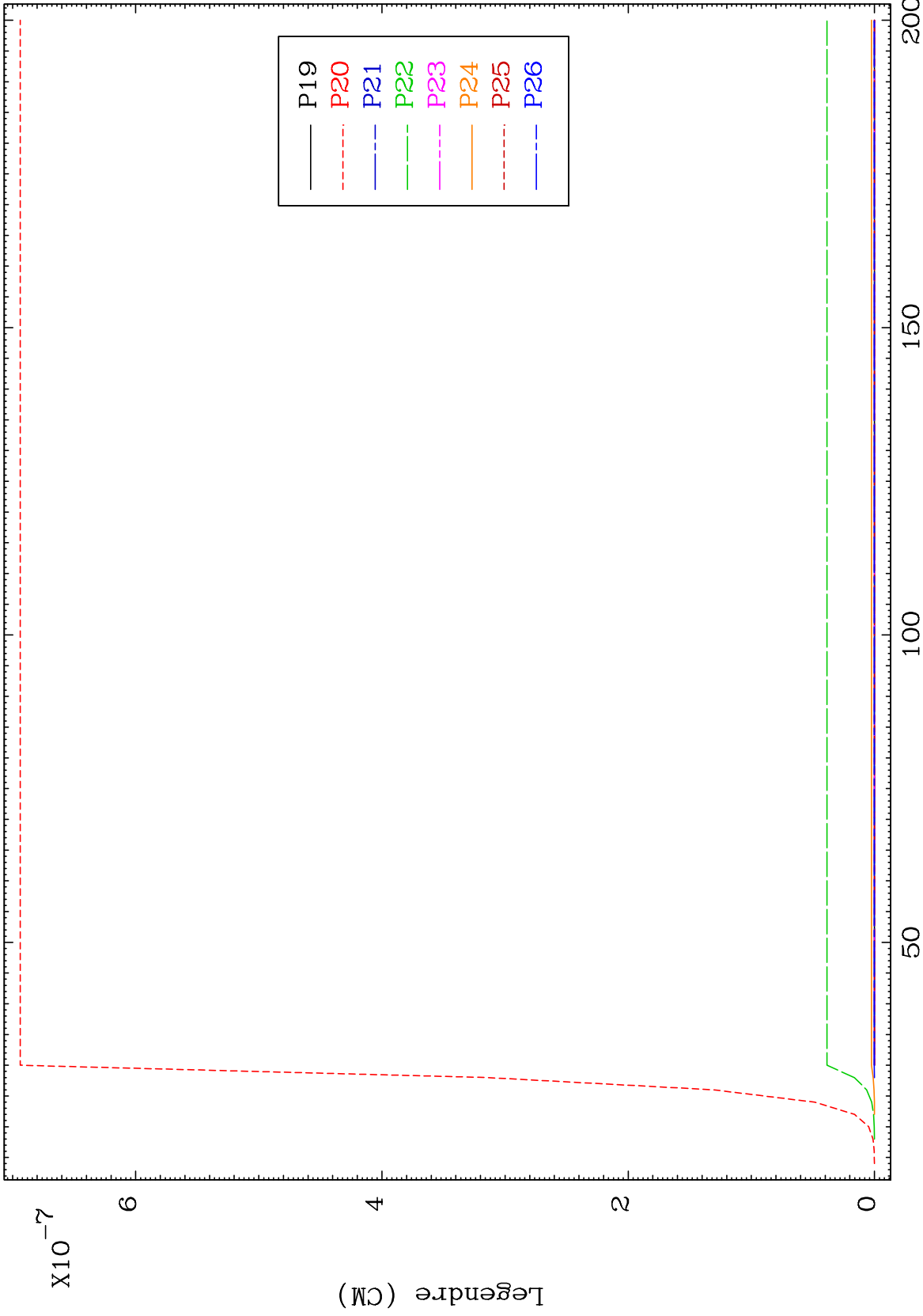
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51-Sb-132

MAT 5158

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

51-Sb-132



33

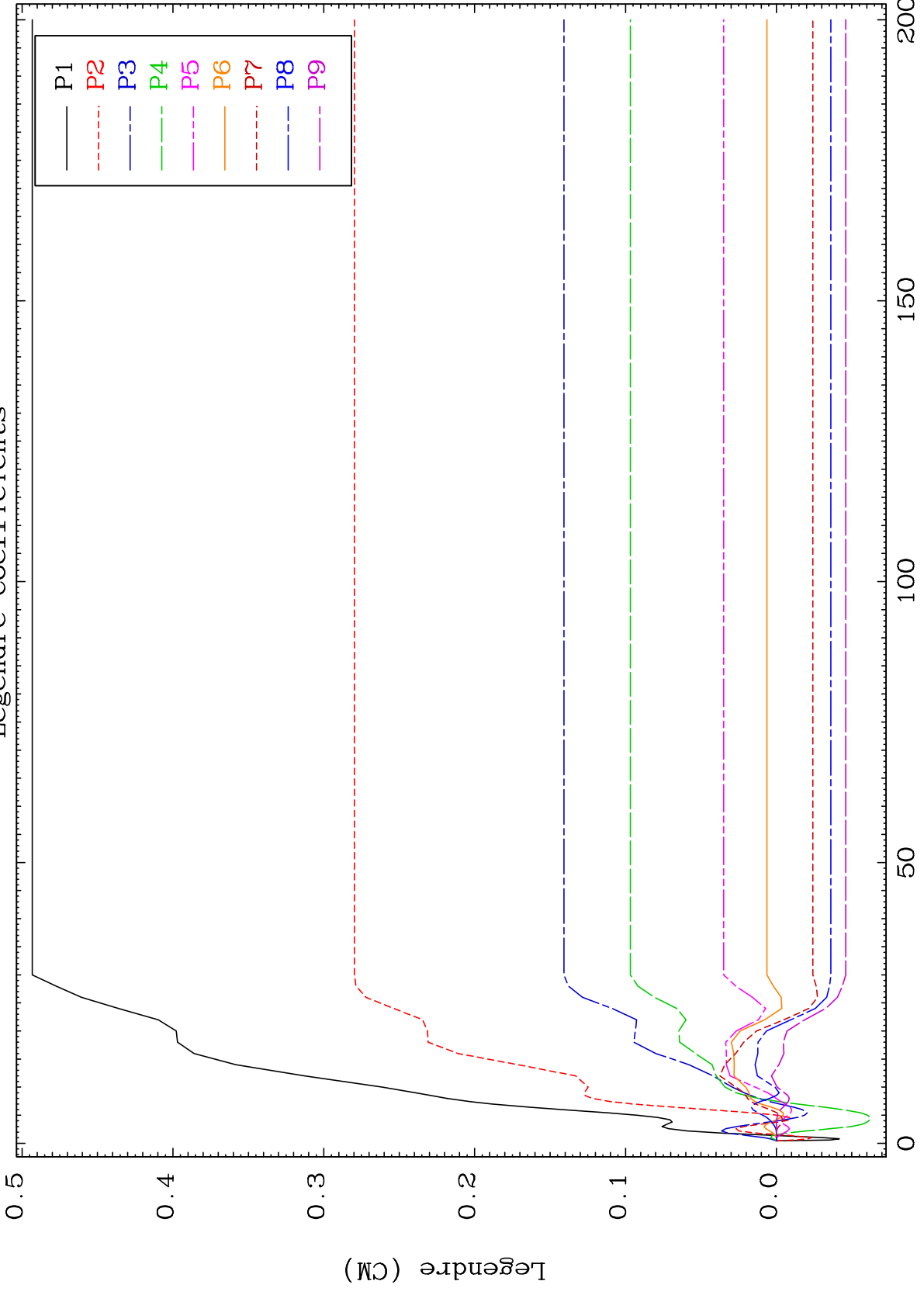
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



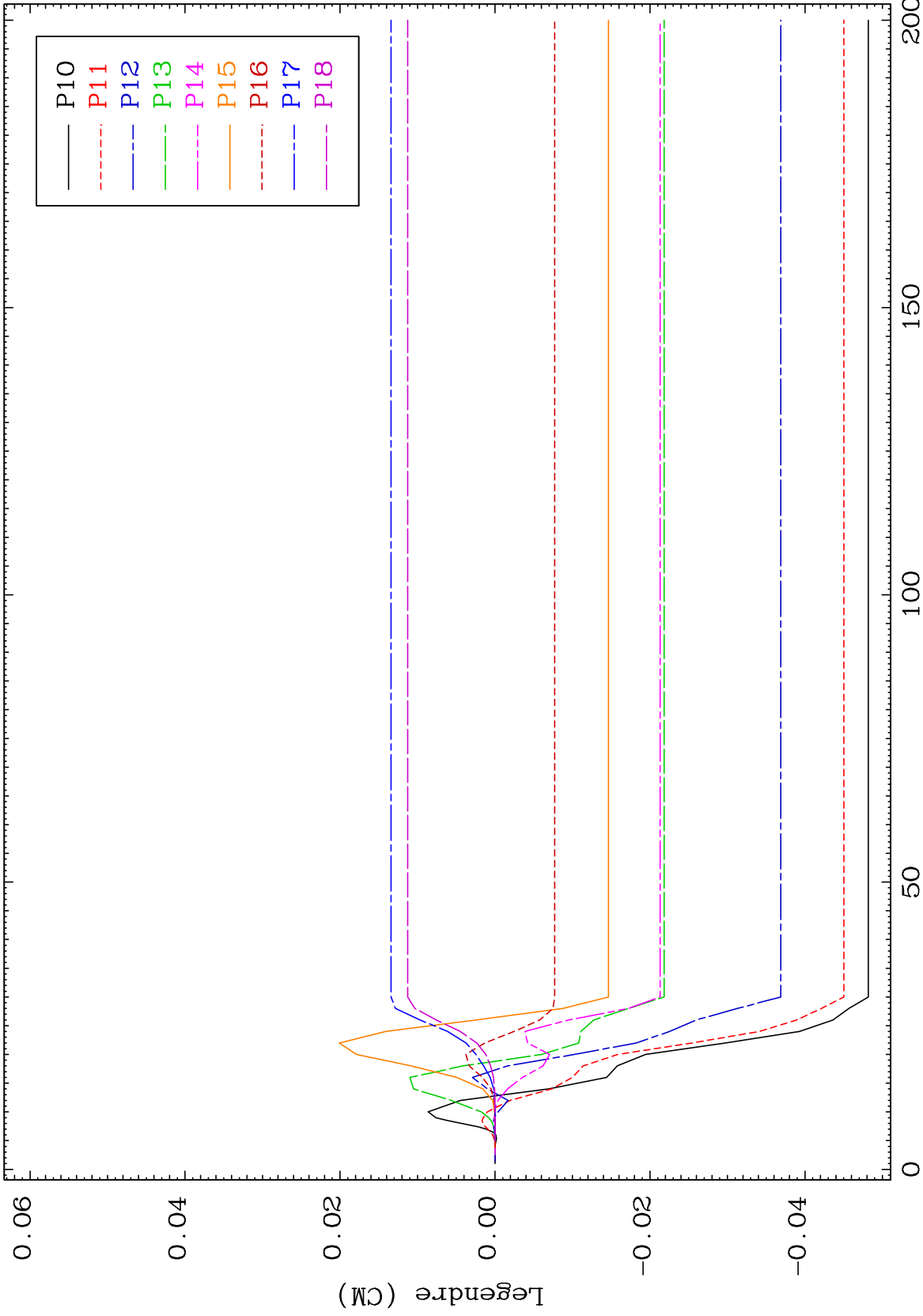
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51-Sb-132

MAT 5158

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

51-Sb-132



35

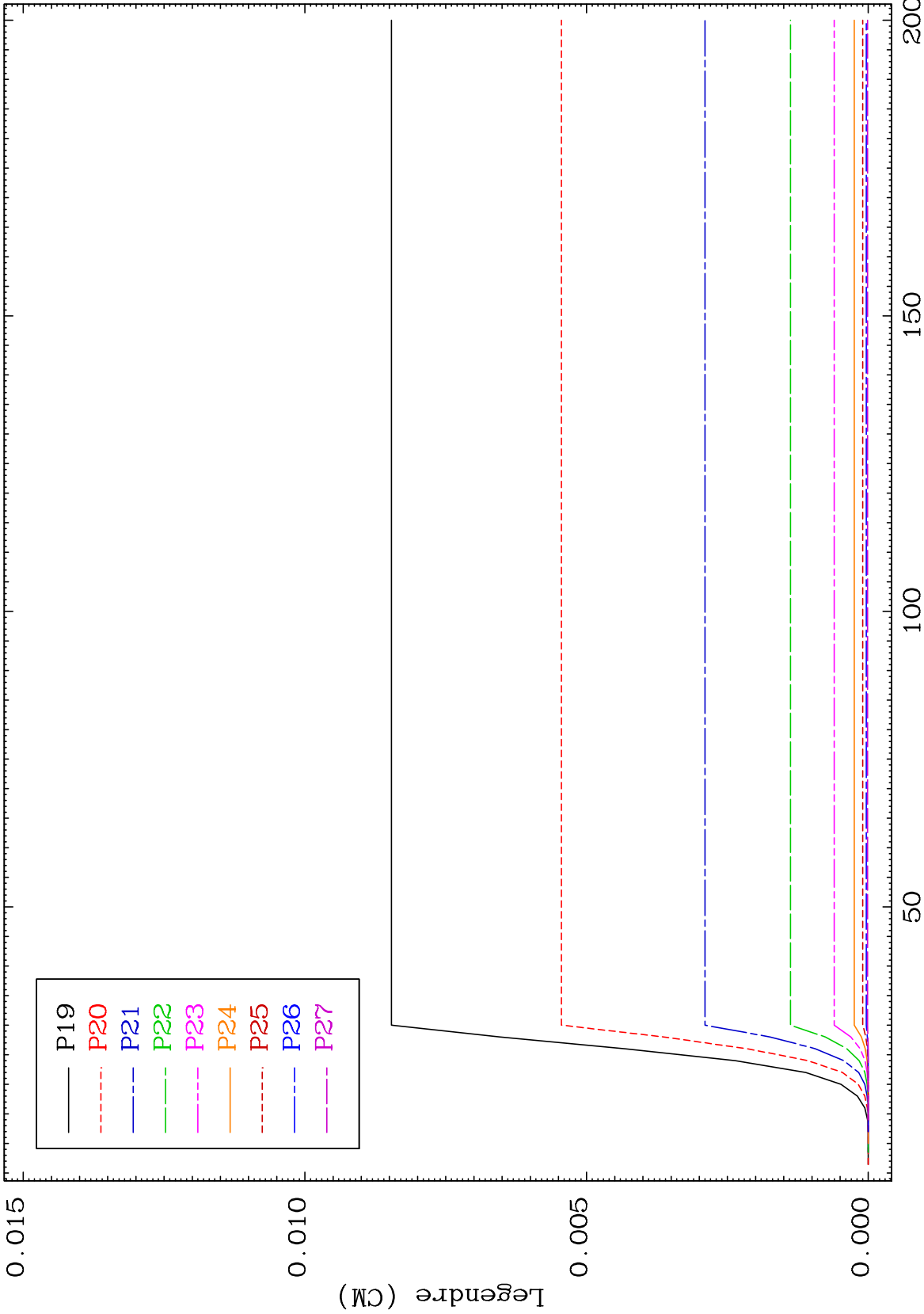
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



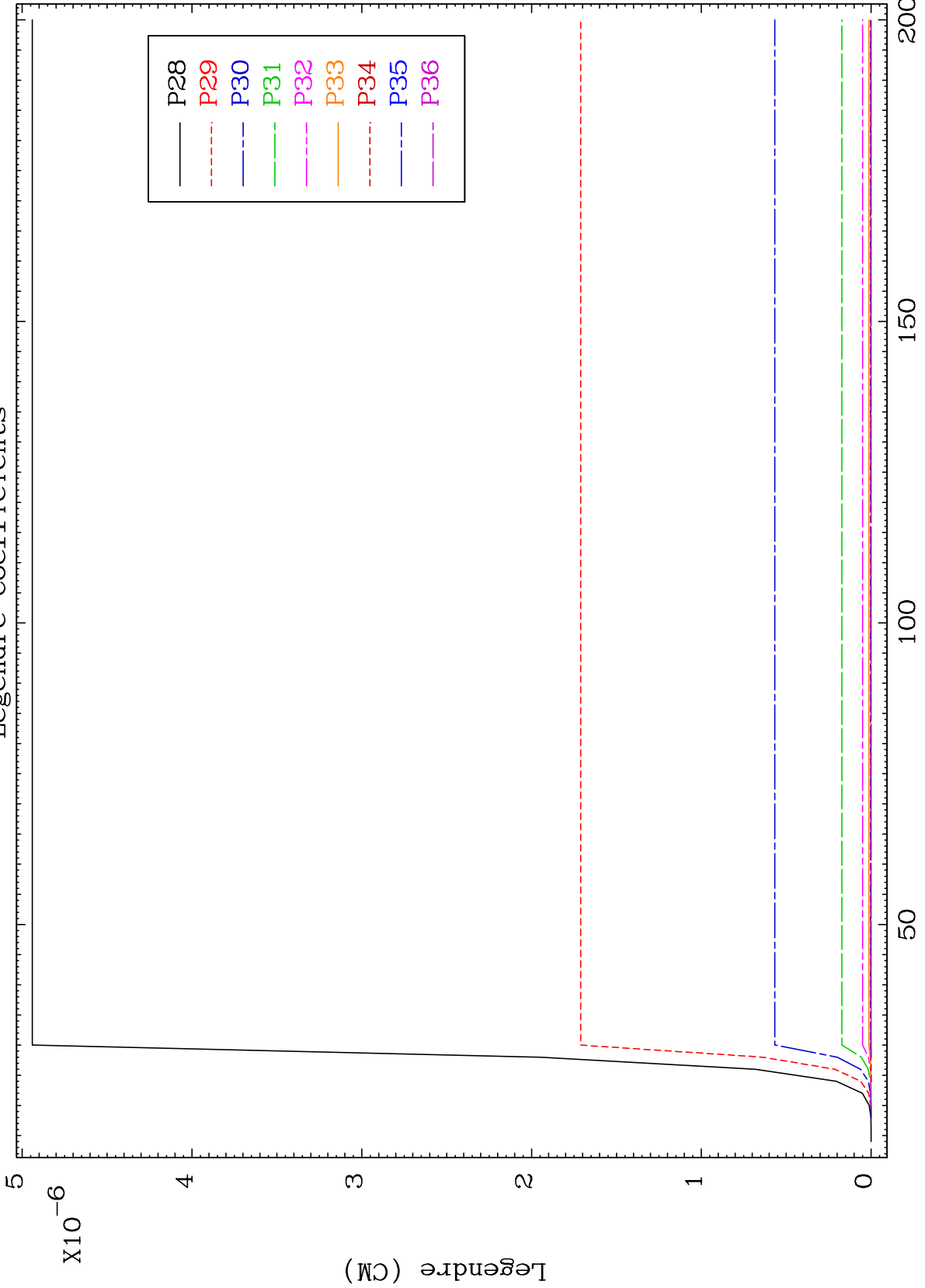
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51-Sb-132

MAT 5158

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

51-Sb-132



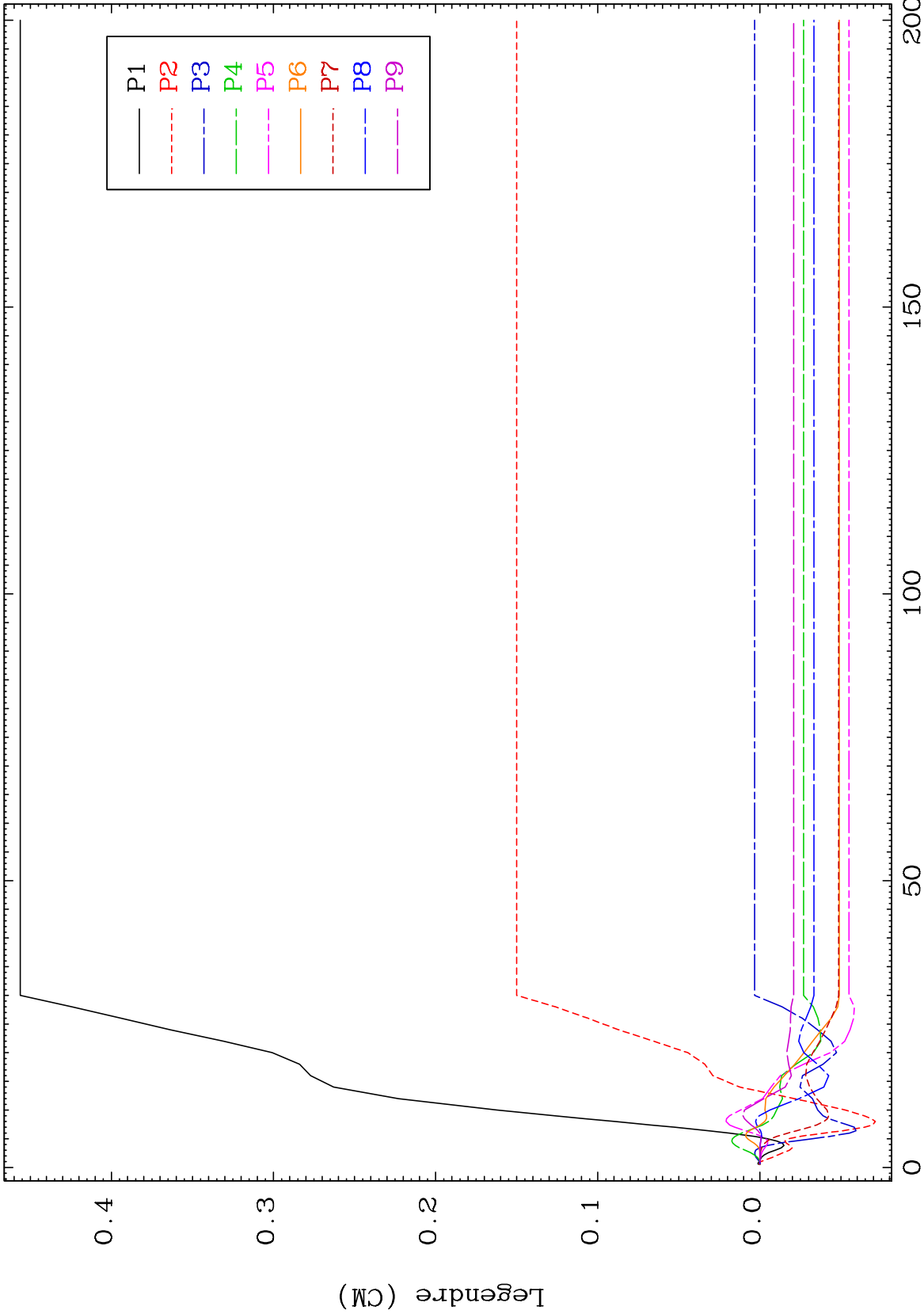
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51-Sb-132

MAT 5158

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

51-Sb-132



38

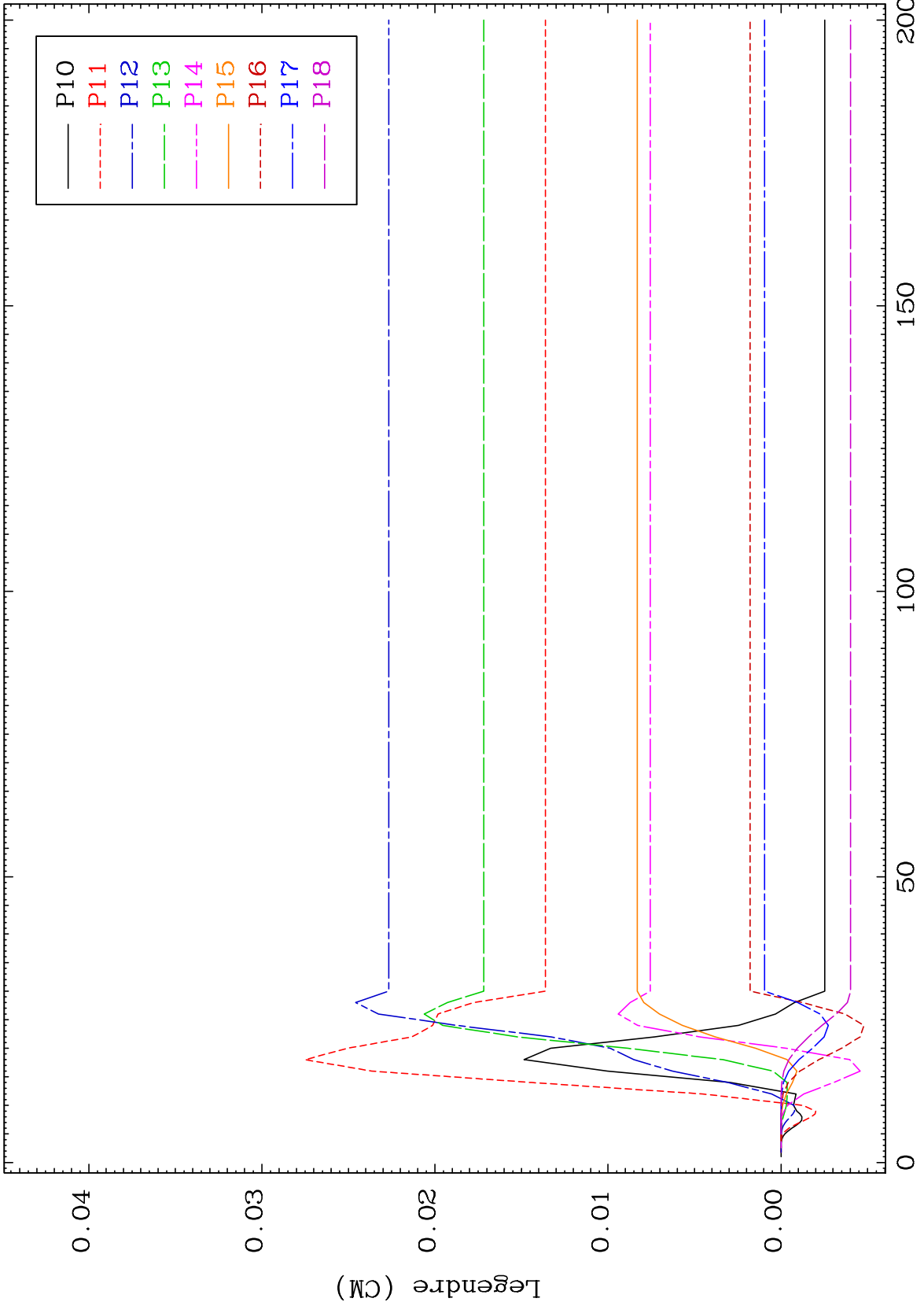
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



39

Incident Energy (MeV)

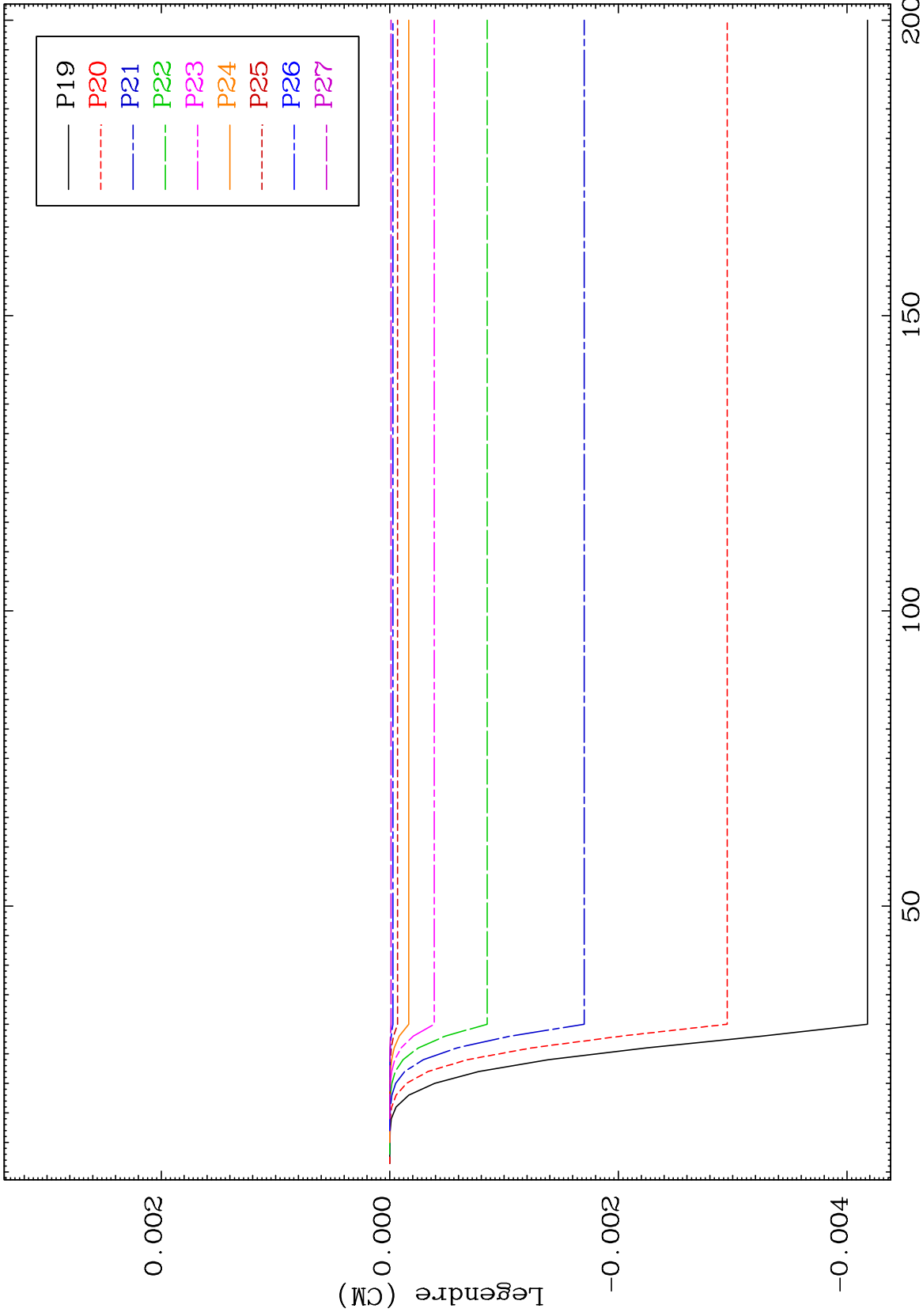
51-Sb-132



MAT 5158

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

51-Sb-132



40

Incident Energy (MeV)

50

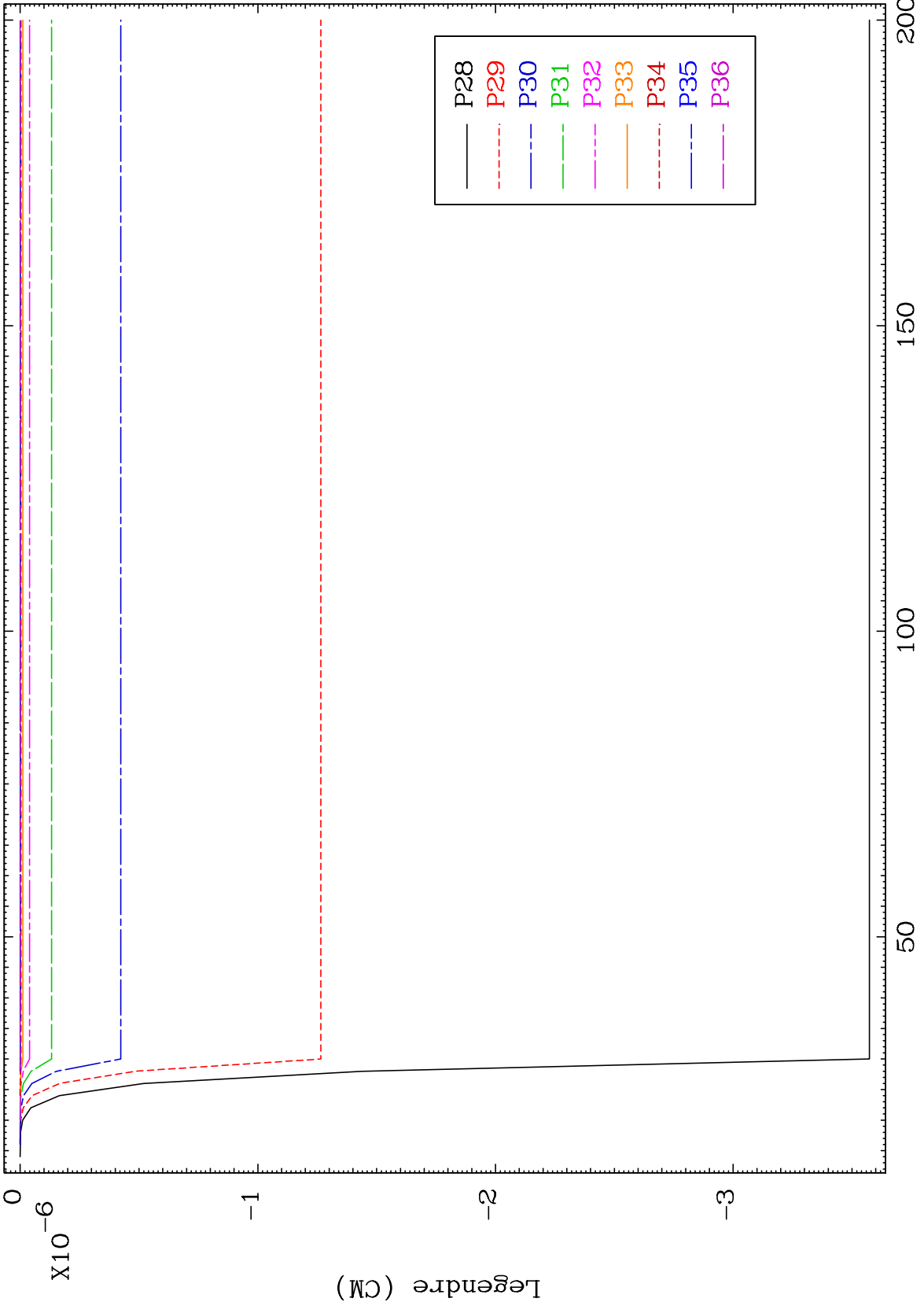
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150

200

51-Sb-132

MAT 5158 MT= 57 (n,n') Level Legendre Coefficients 51-Sb-132

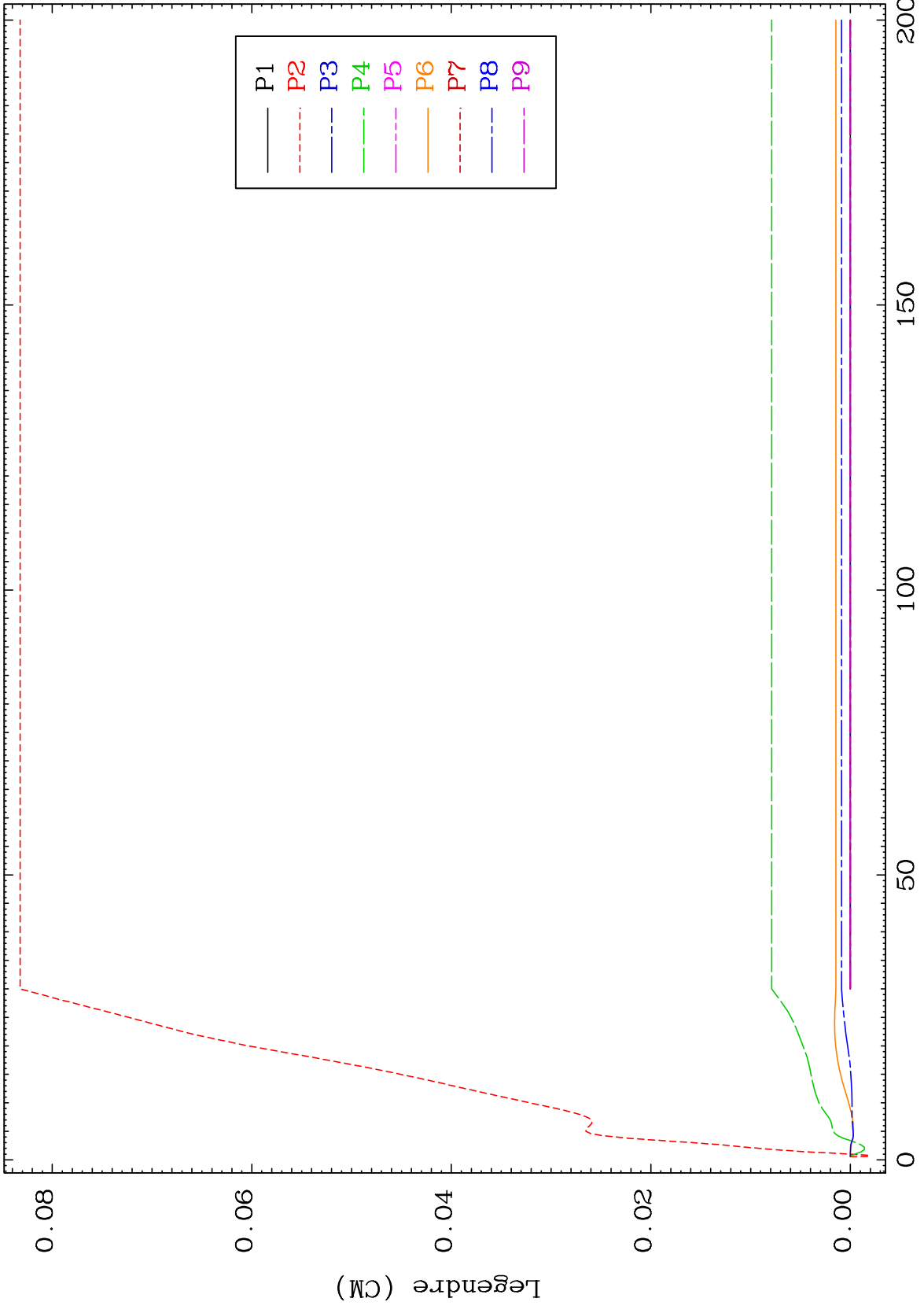


41 51-Sb-132

MAT 5158

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

51-Sb-132



42

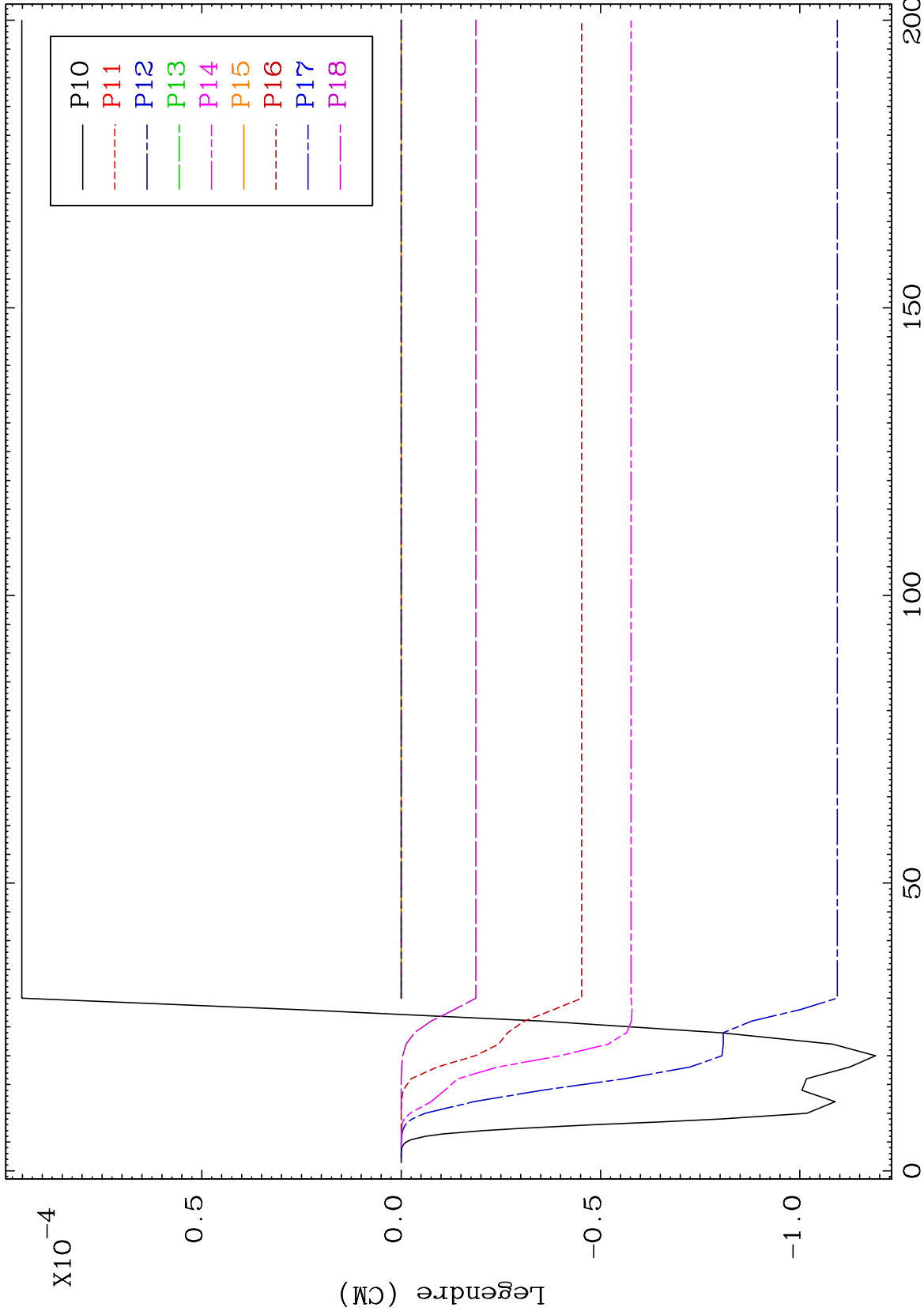
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



43

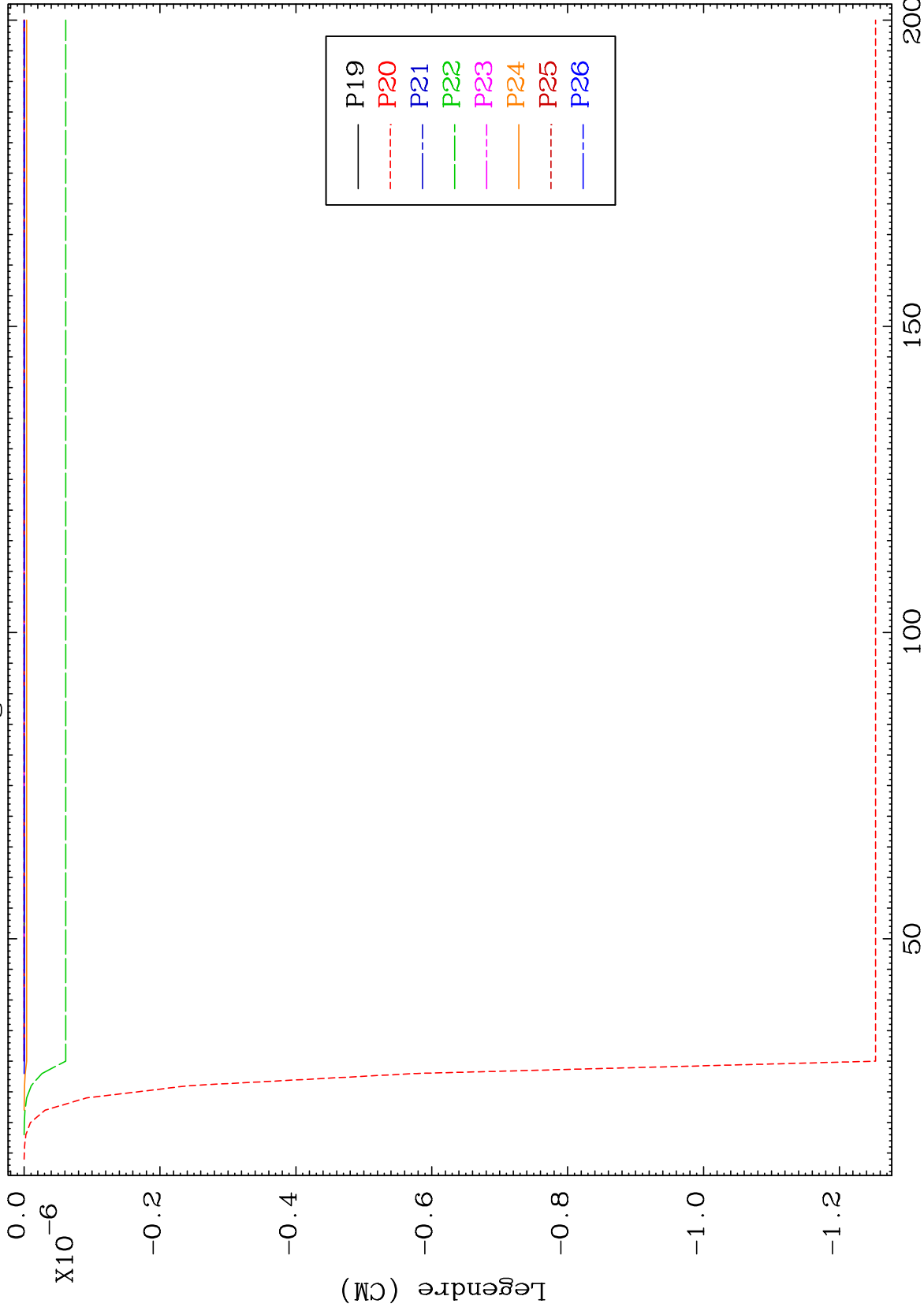
Incident Energy (MeV)

51-Sb-132

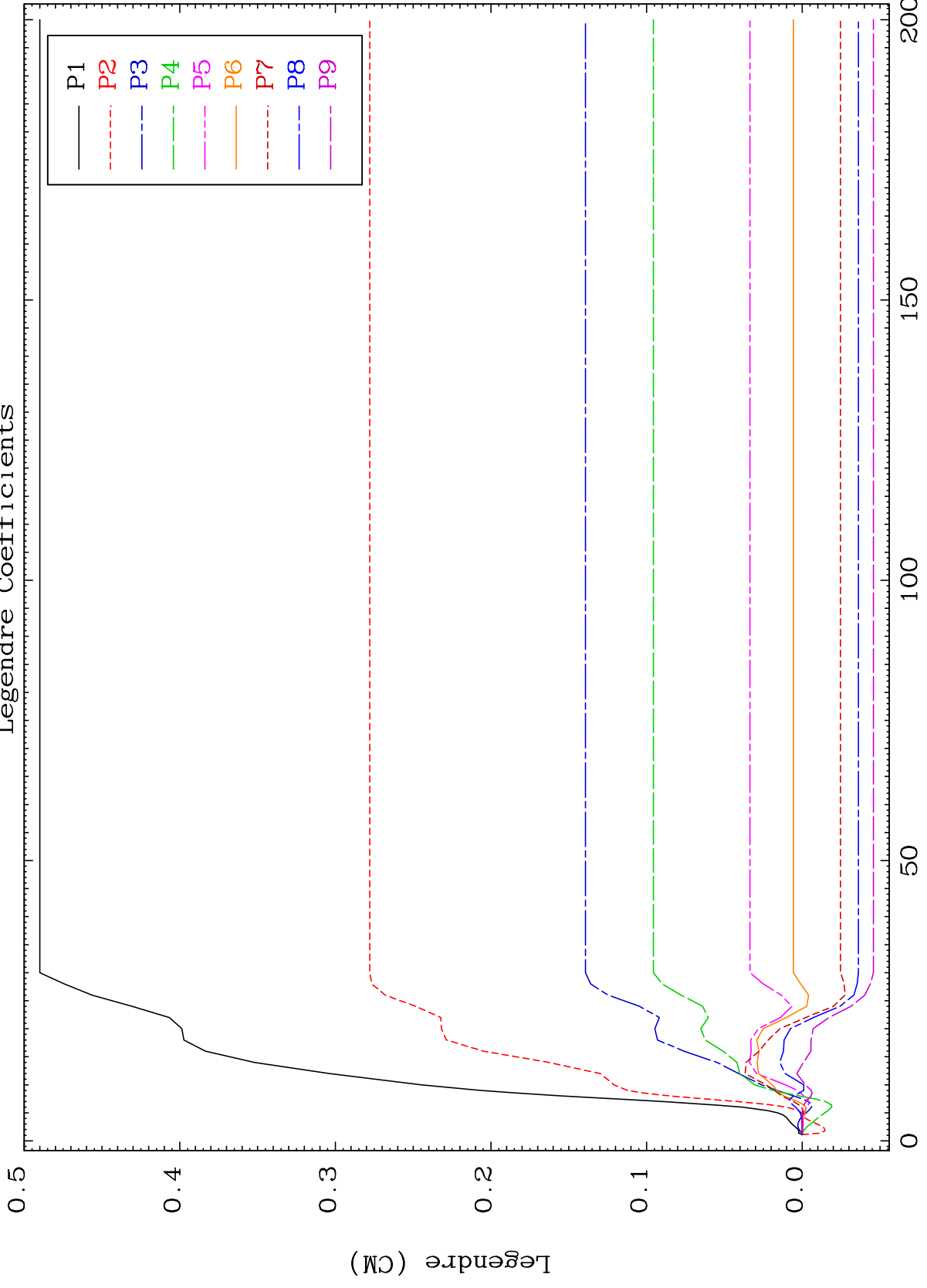
MAT 5158

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

51-Sb-132



MAT 5158 MT= 59 (n,n') Level Legendre Coefficients 51-Sb-132

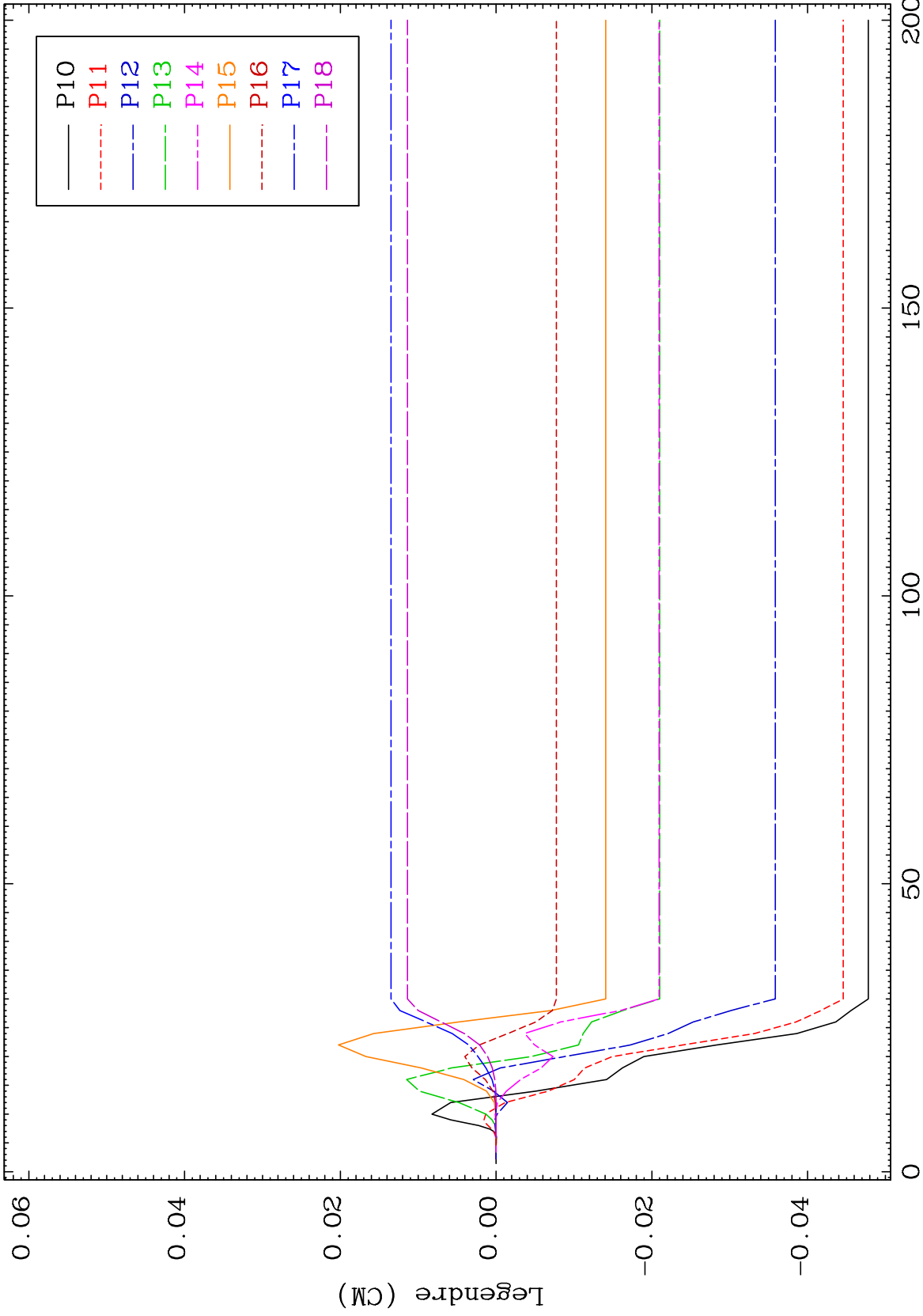


Legendre (CM) Incident Energy (MeV) 51-Sb-132

MAT 5158

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

51-Sb-132



46

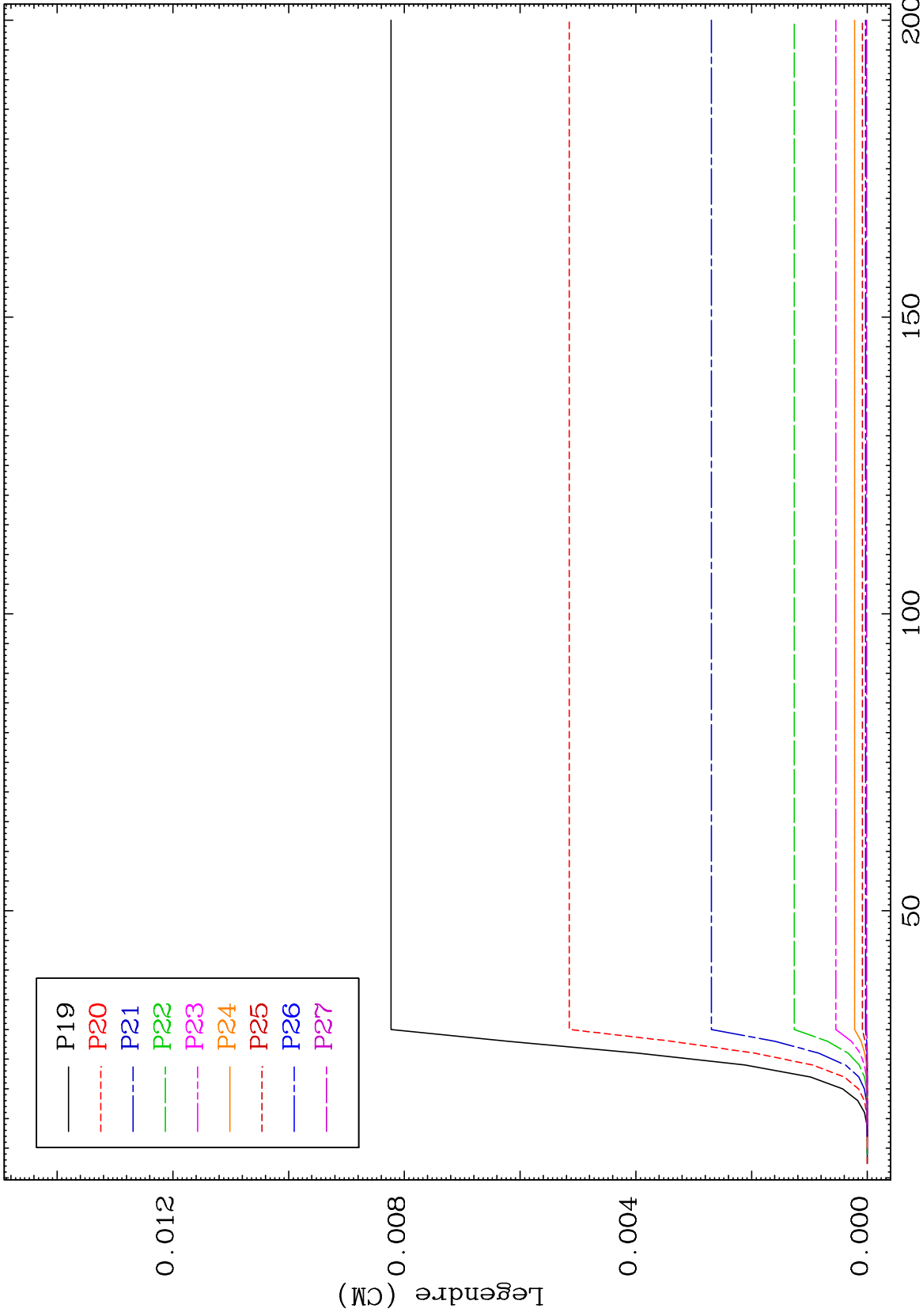
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



47

Incident Energy (MeV)

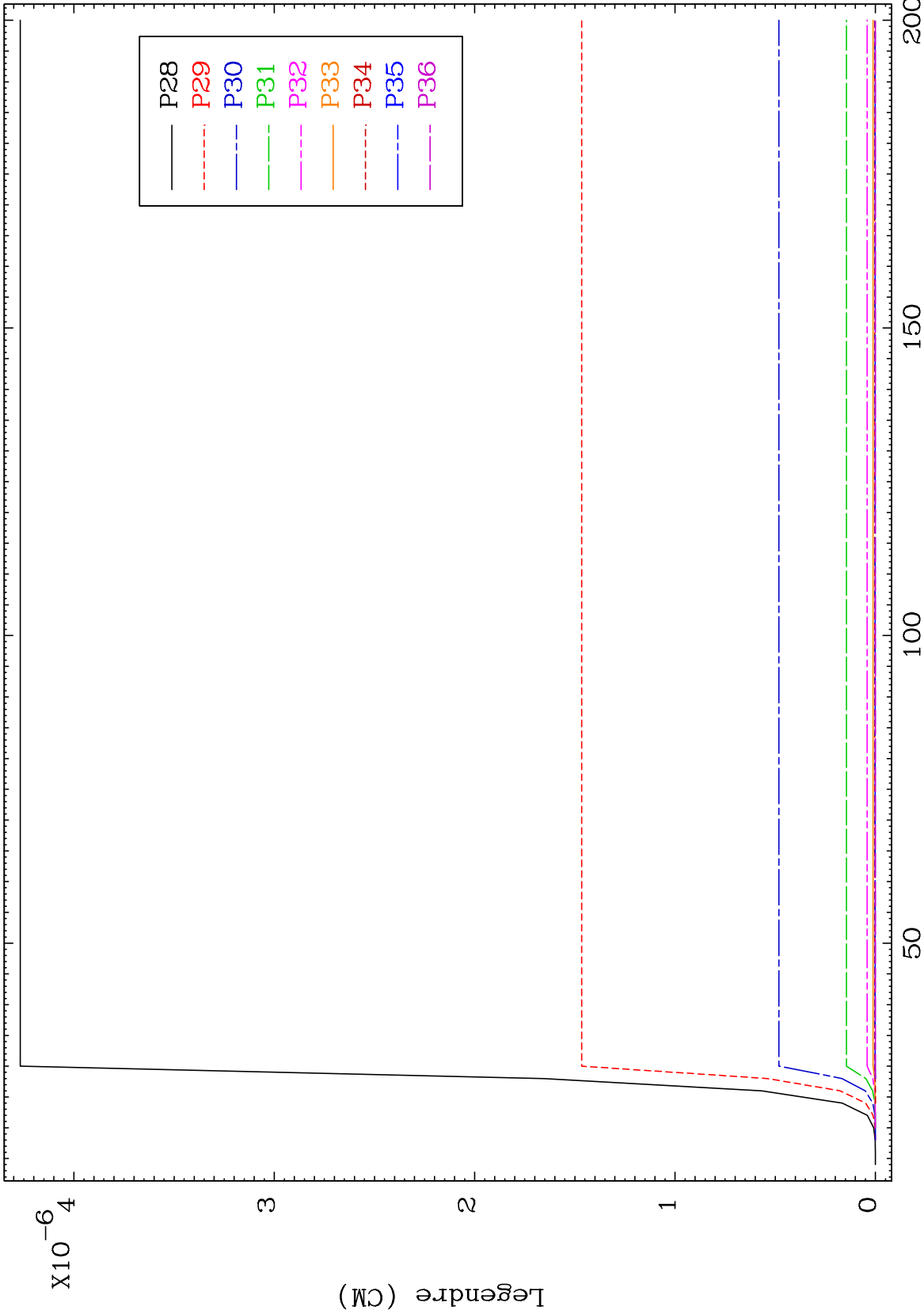
51-Sb-132



MAT 5158

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

51-Sb-132



48

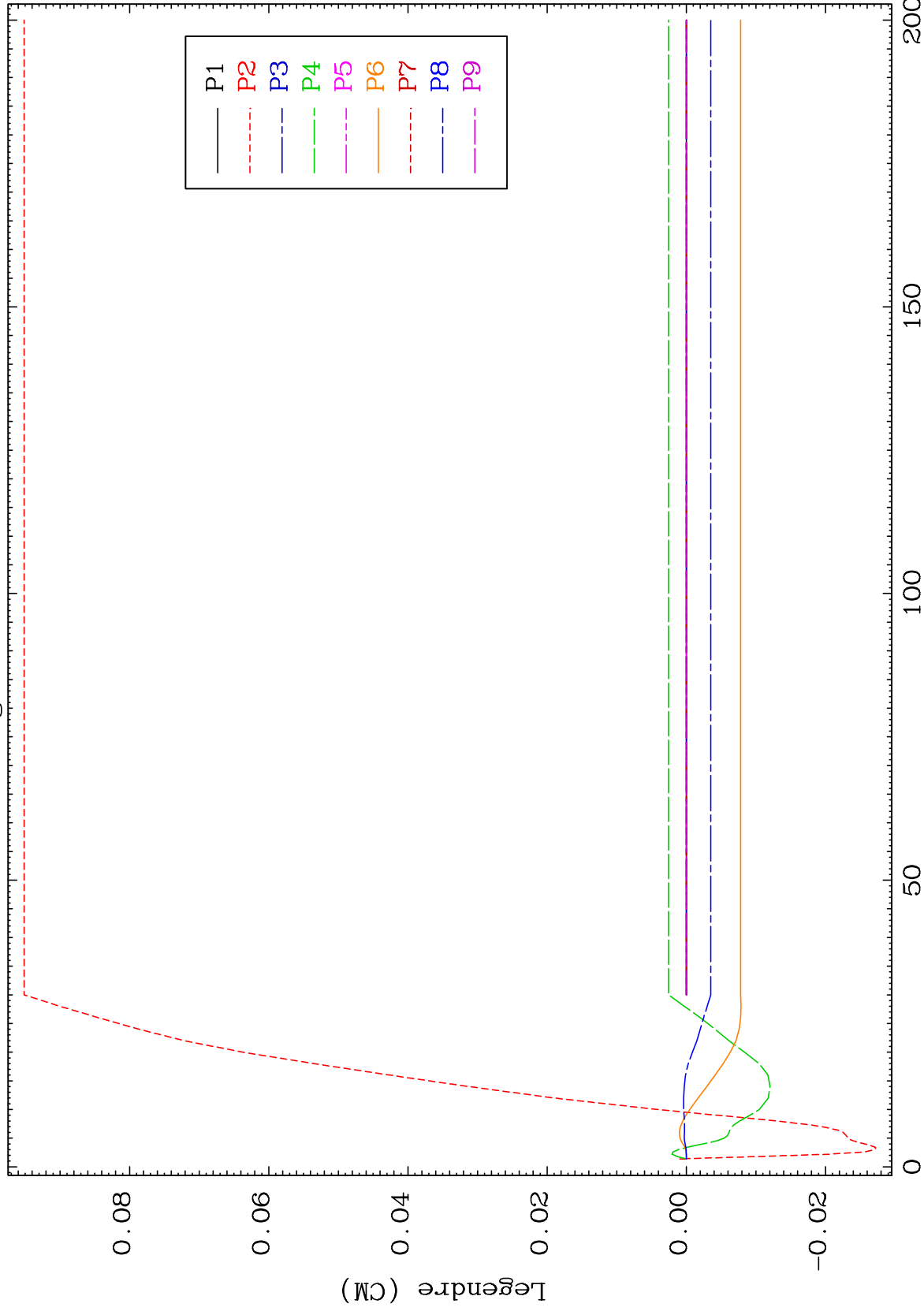
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



49

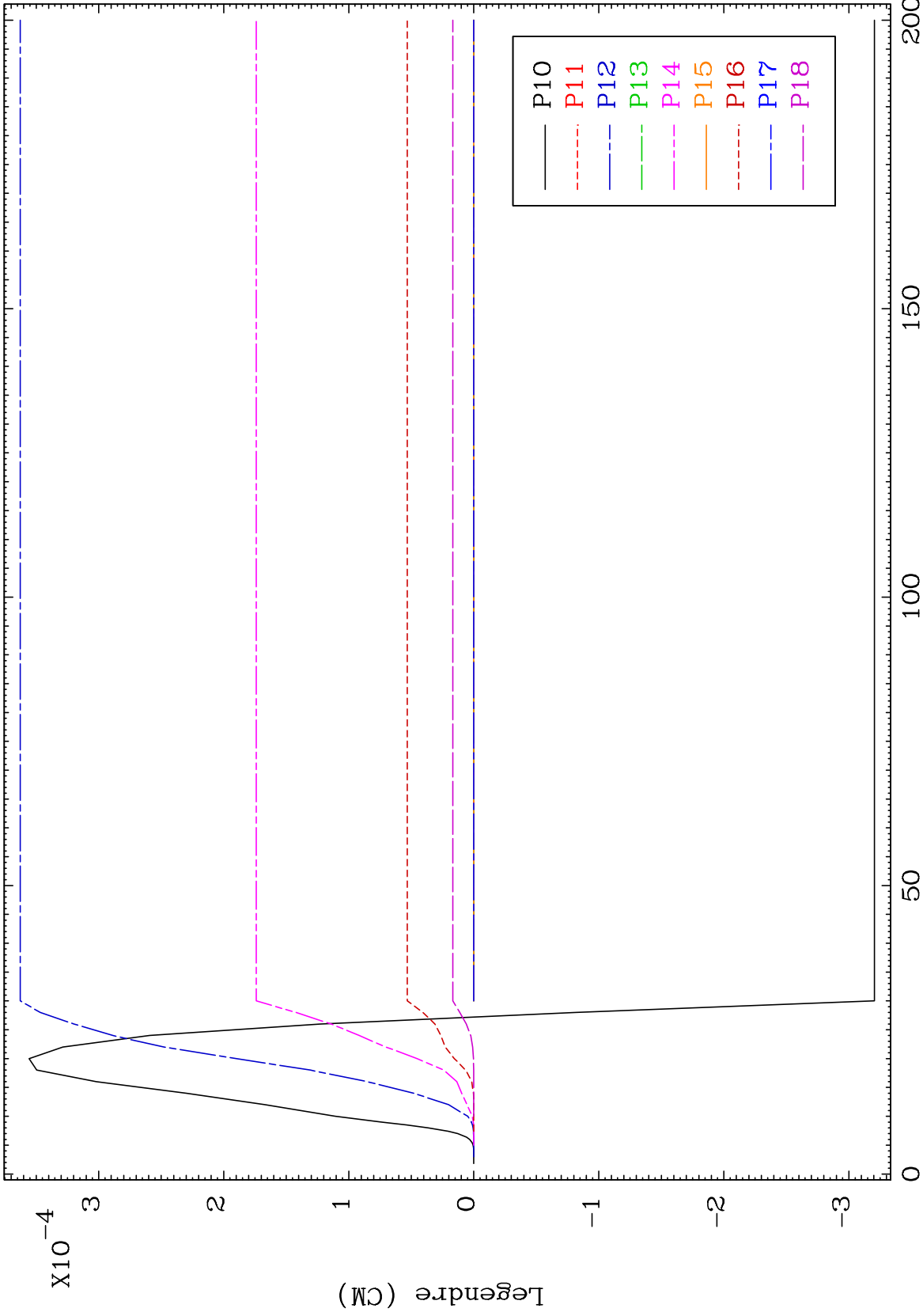
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



50

Incident Energy (MeV)

50

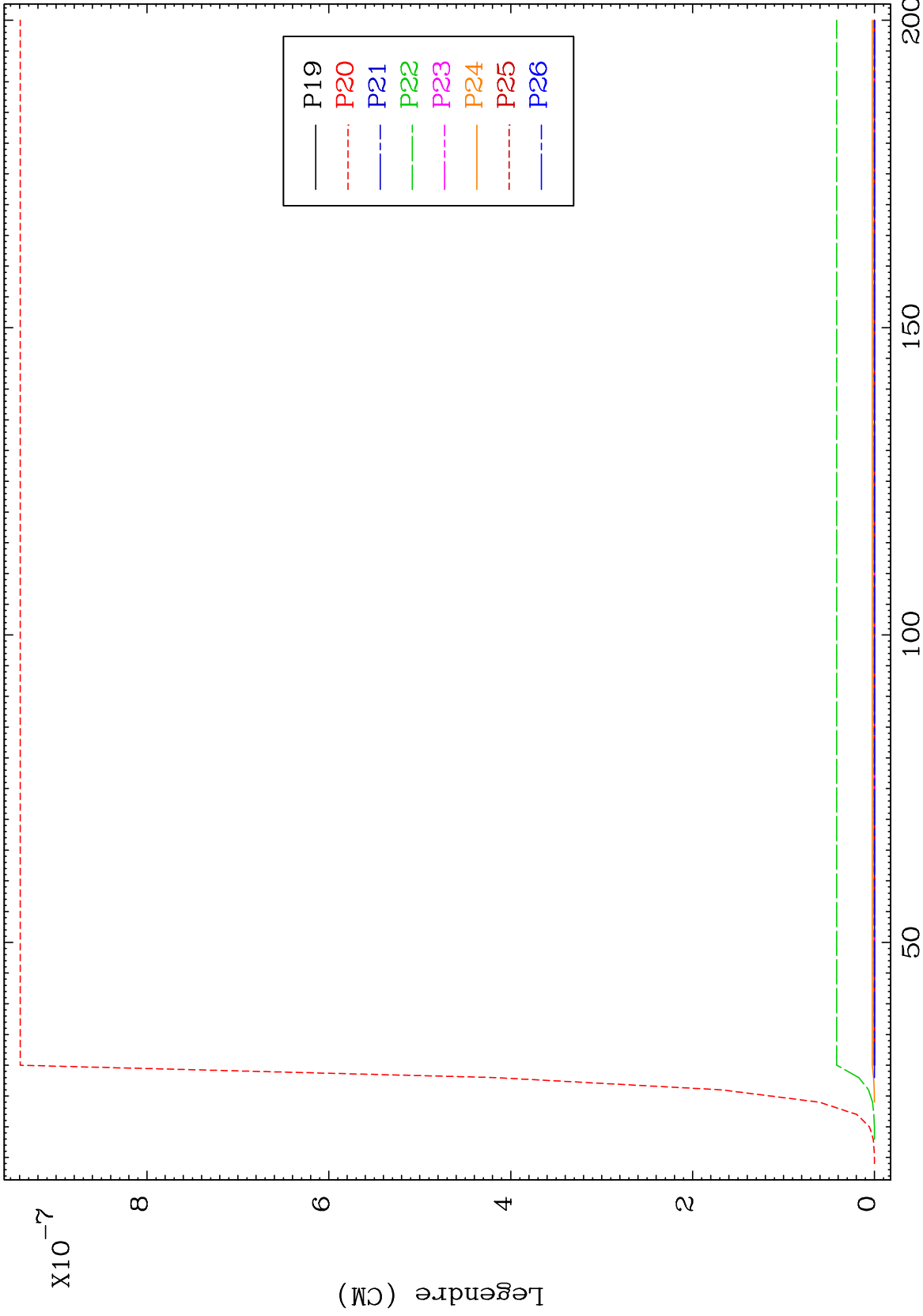
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51-Sb-132

MAT 5158

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

51-Sb-132



51

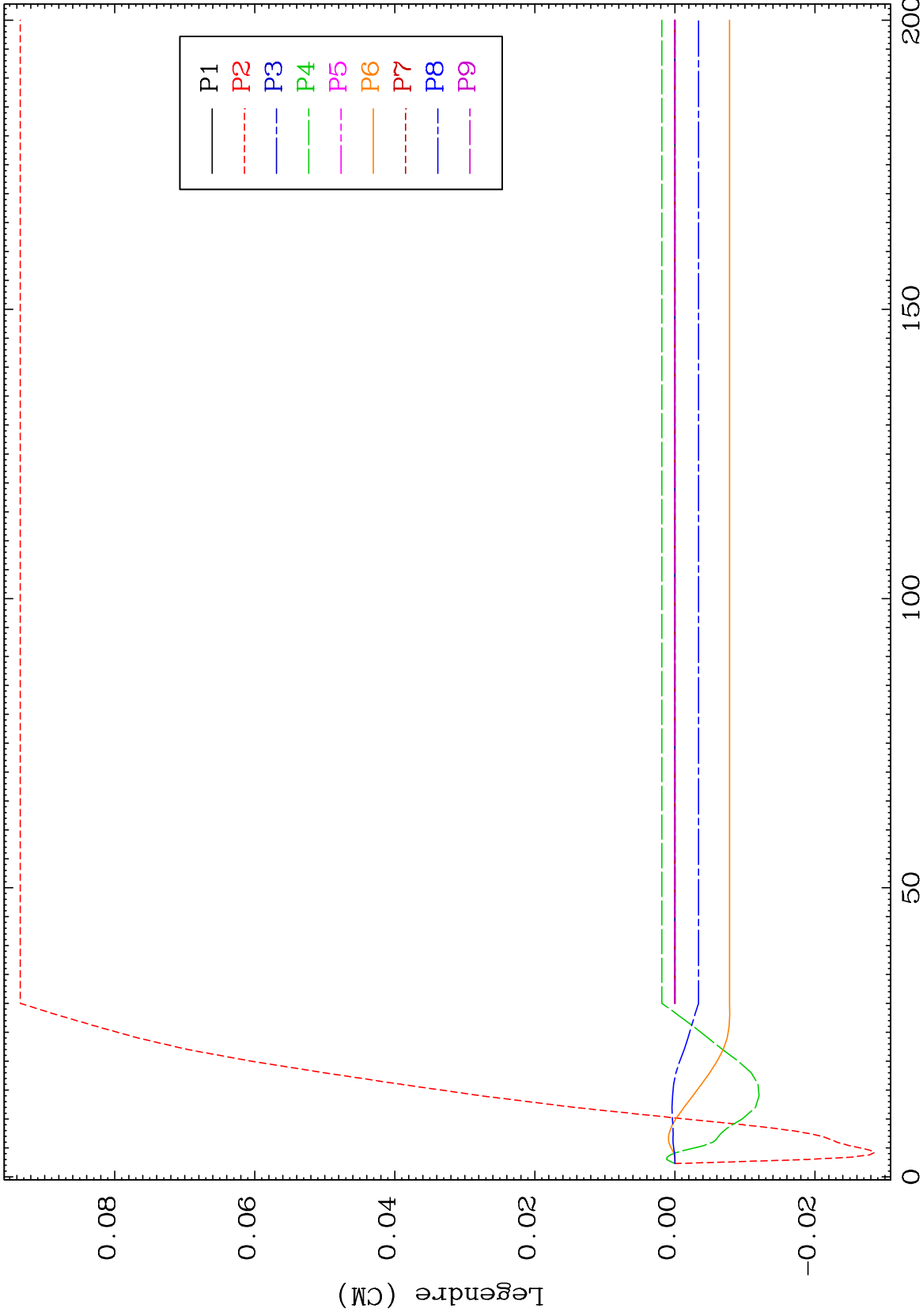
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



52

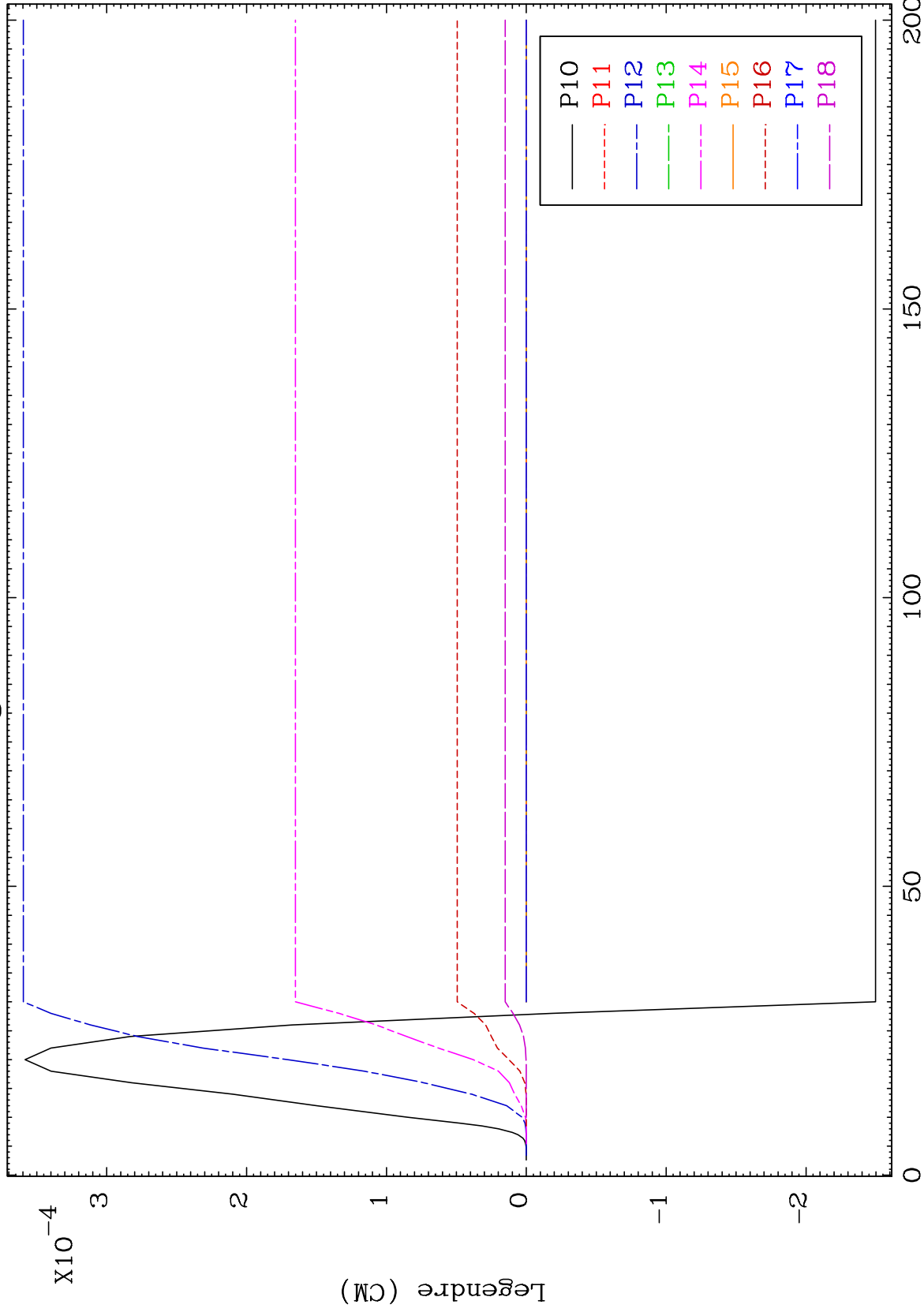
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



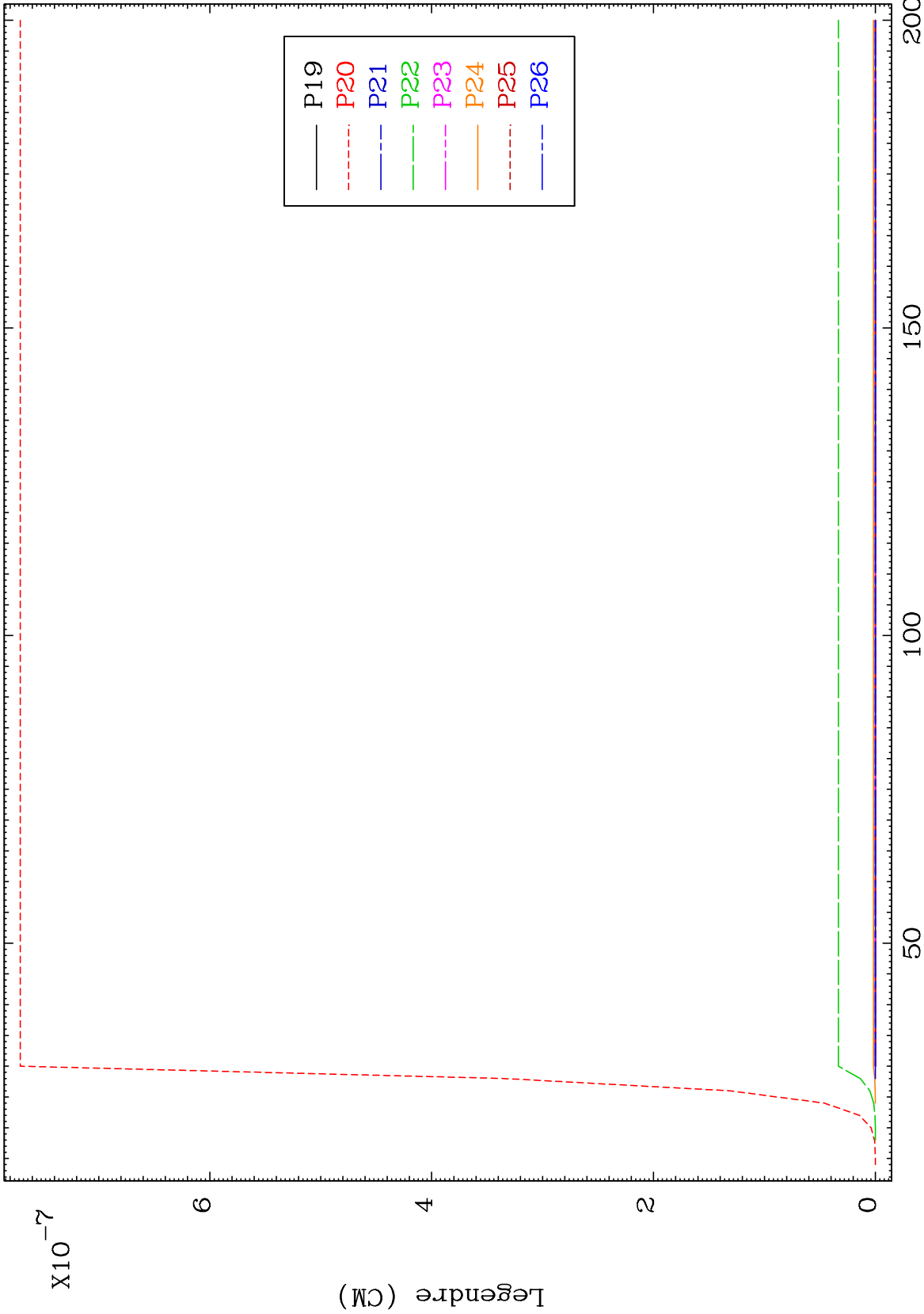
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51-Sb-132

MAT 5158

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

51-Sb-132



54

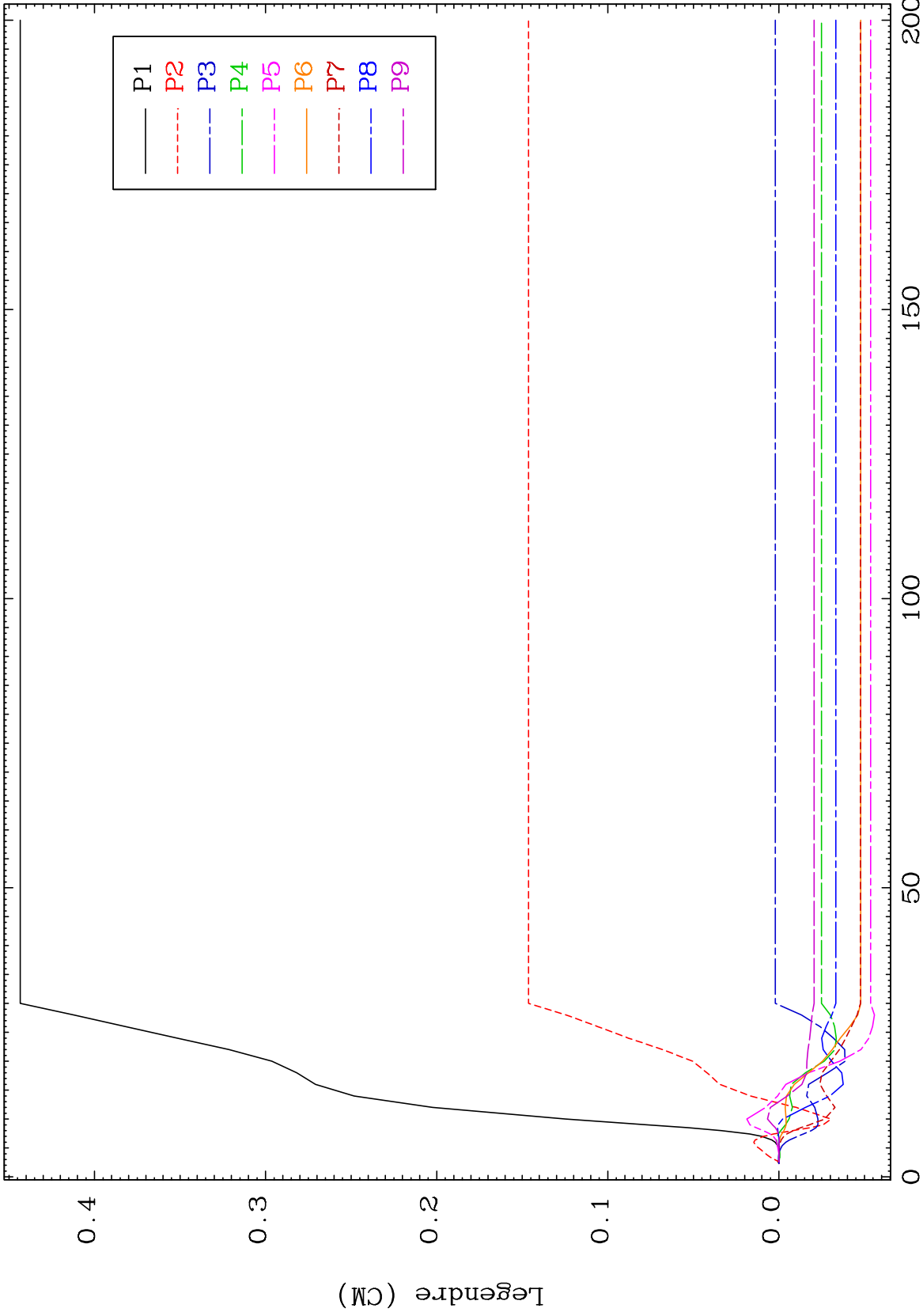
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



55

Incident Energy (MeV)

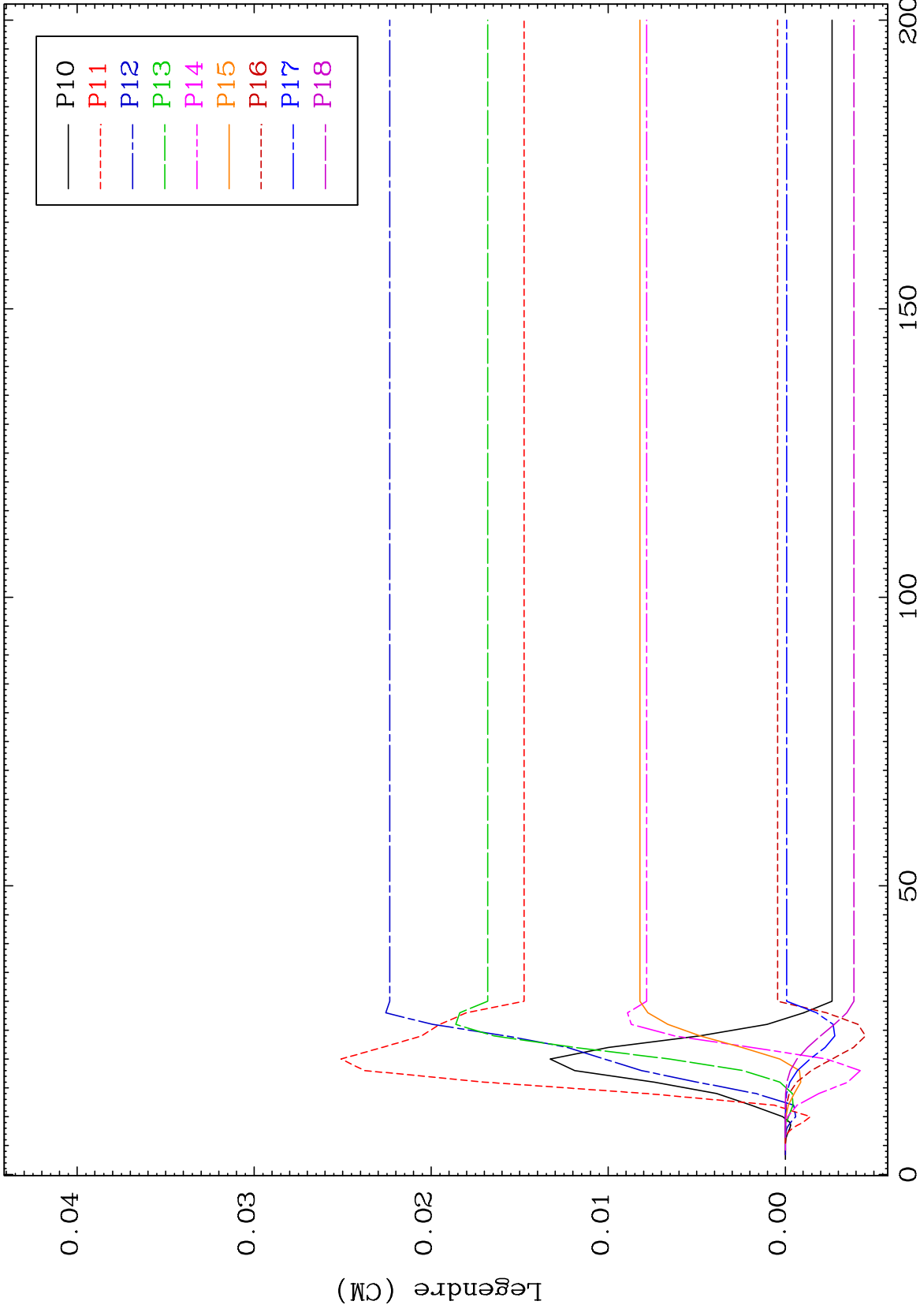
51-Sb-132



MAT 5158

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

51-Sb-132



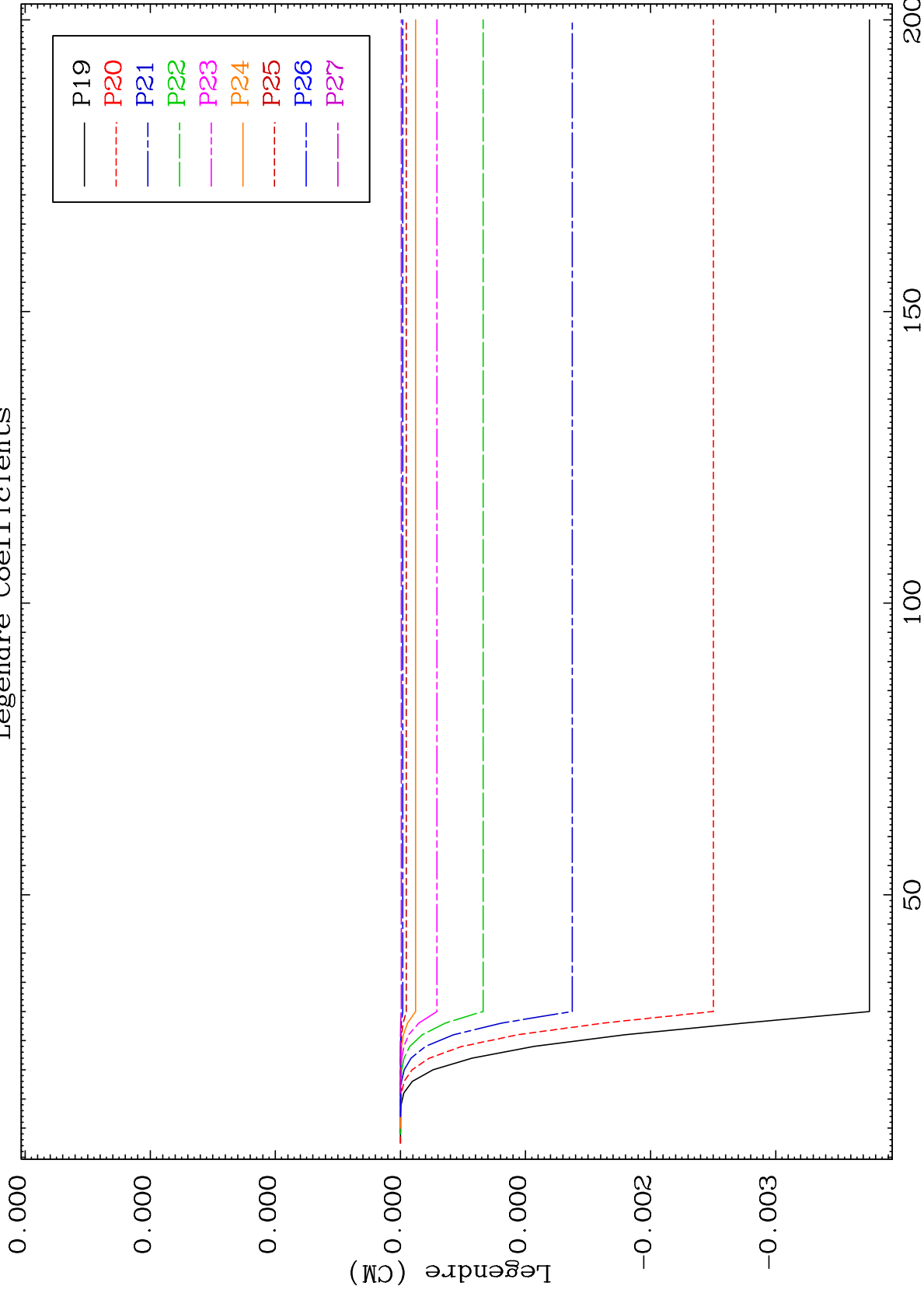
56

51-Sb-132

MAT 5158

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

51-Sb-132



57

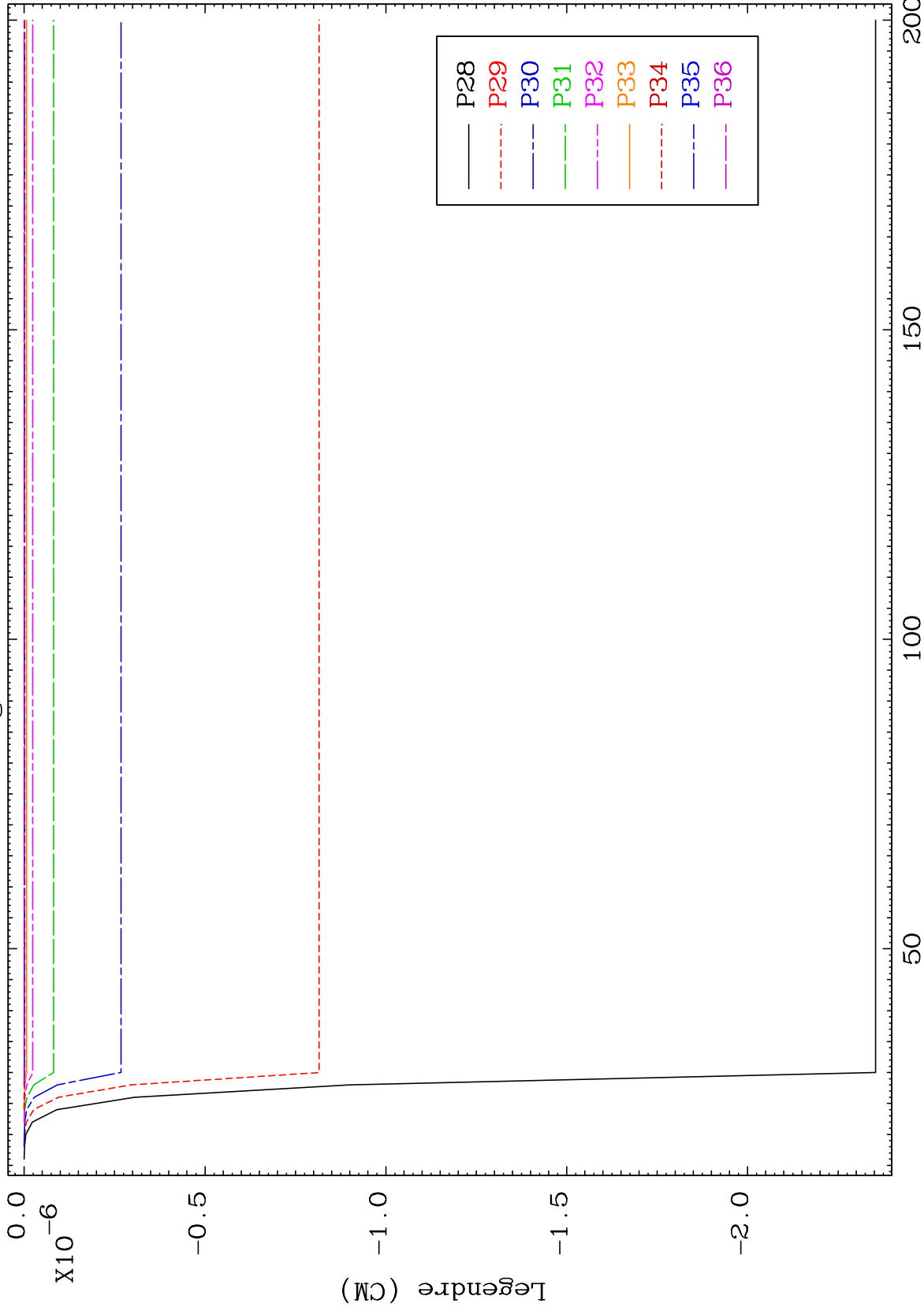
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



58

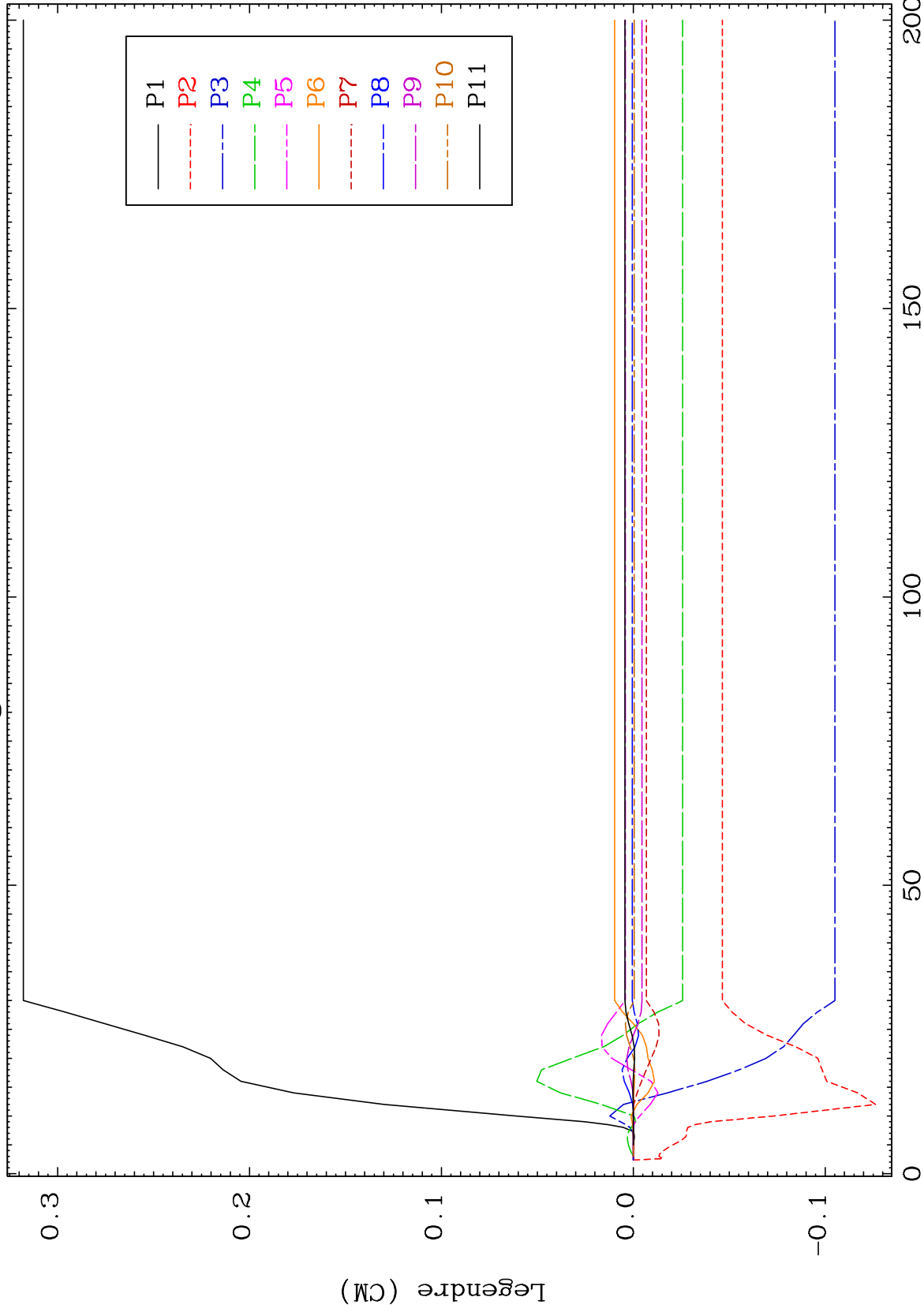
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



59

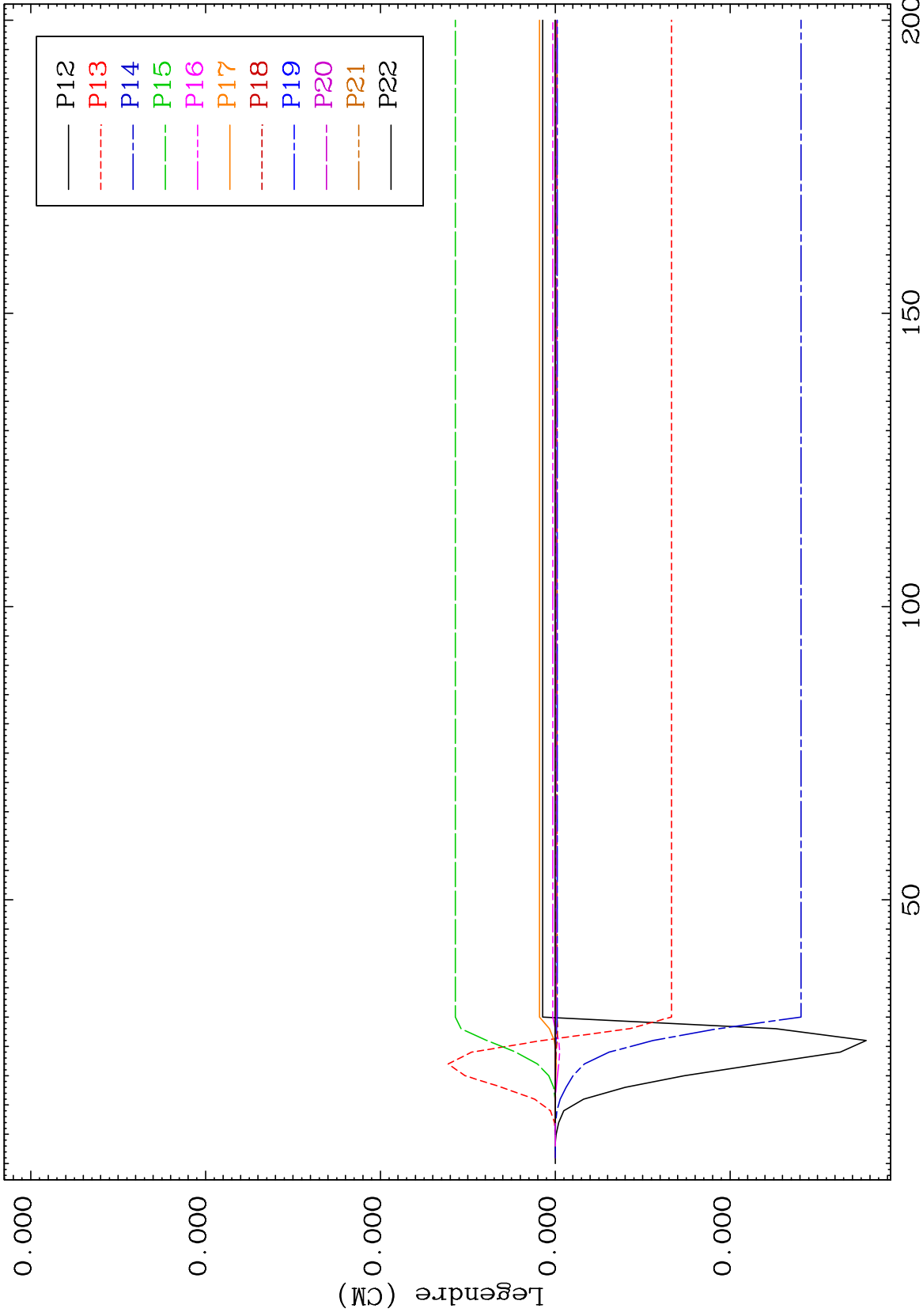
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



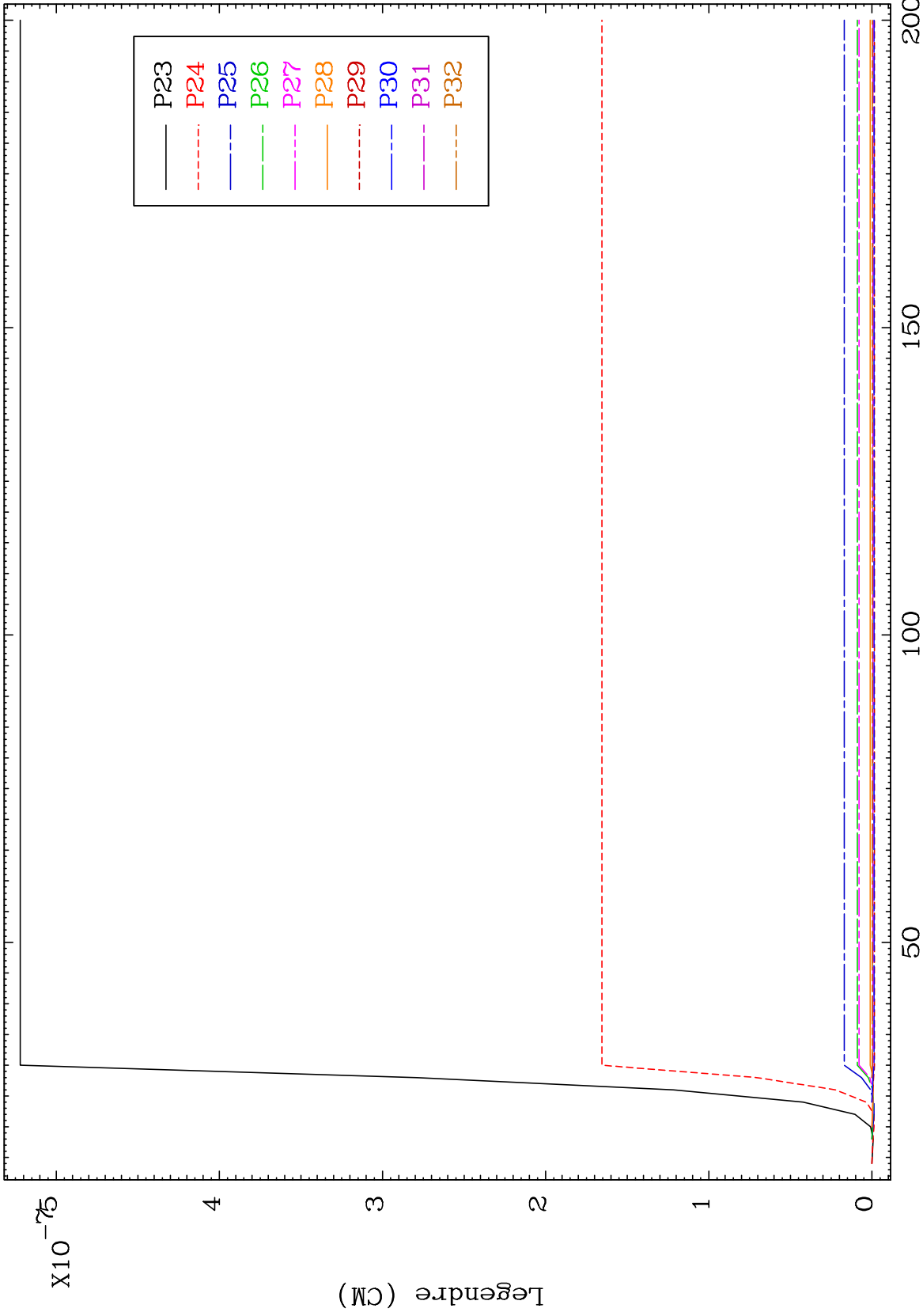
60

51-Sb-132

MAT 5158

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

51-Sb-132



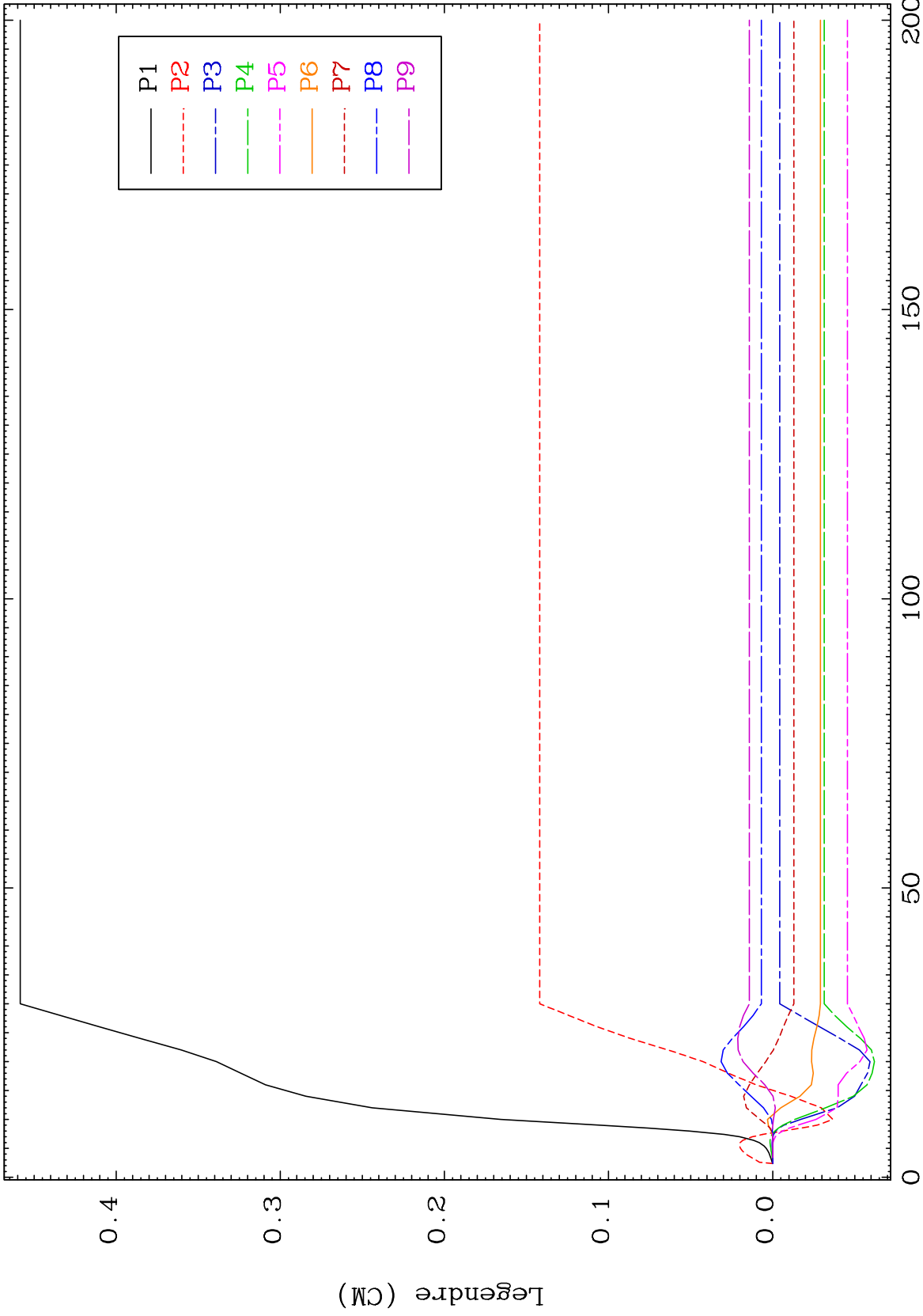
61

51-Sb-132

MAT 5158

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

51-Sb-132



62

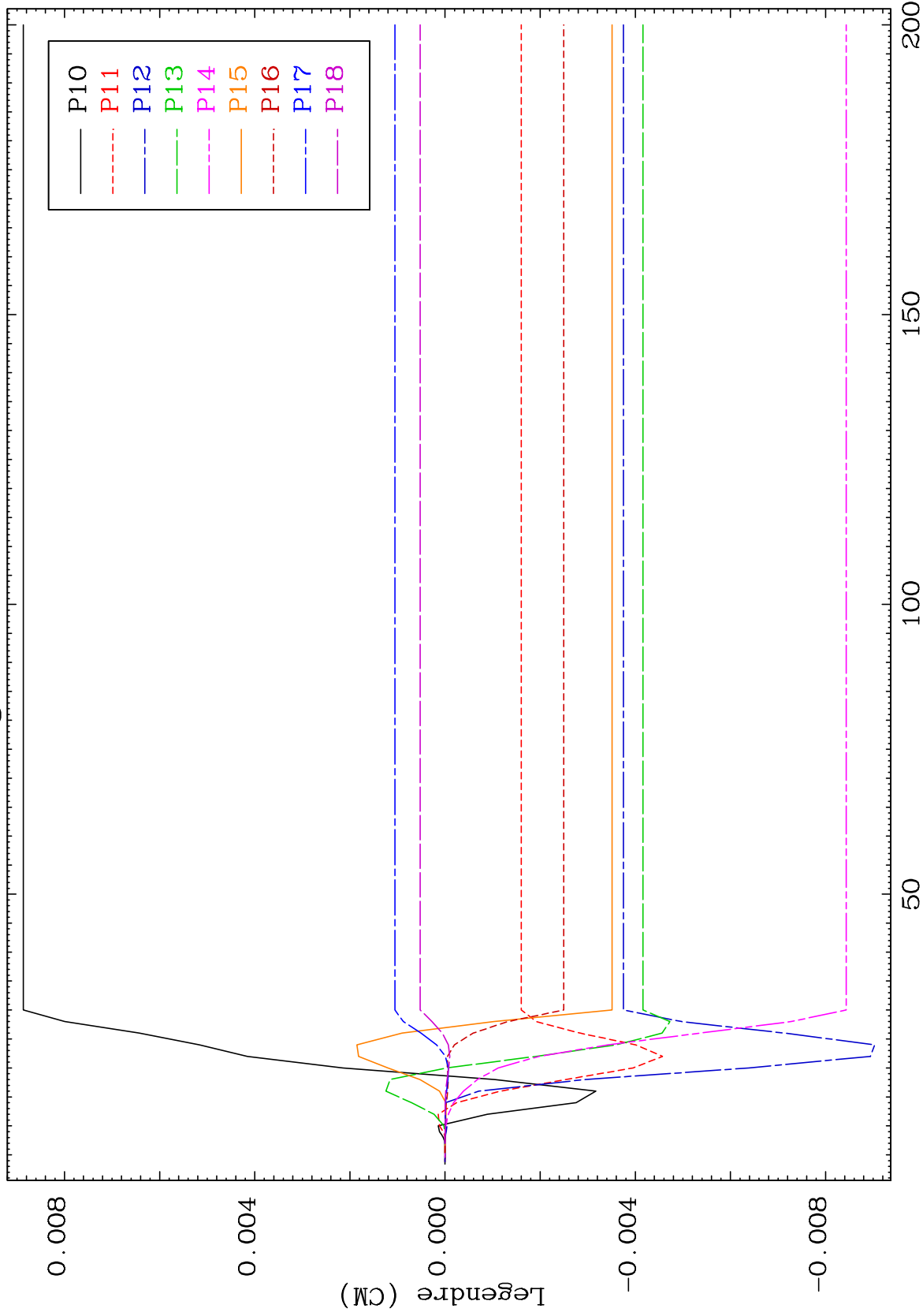
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



63

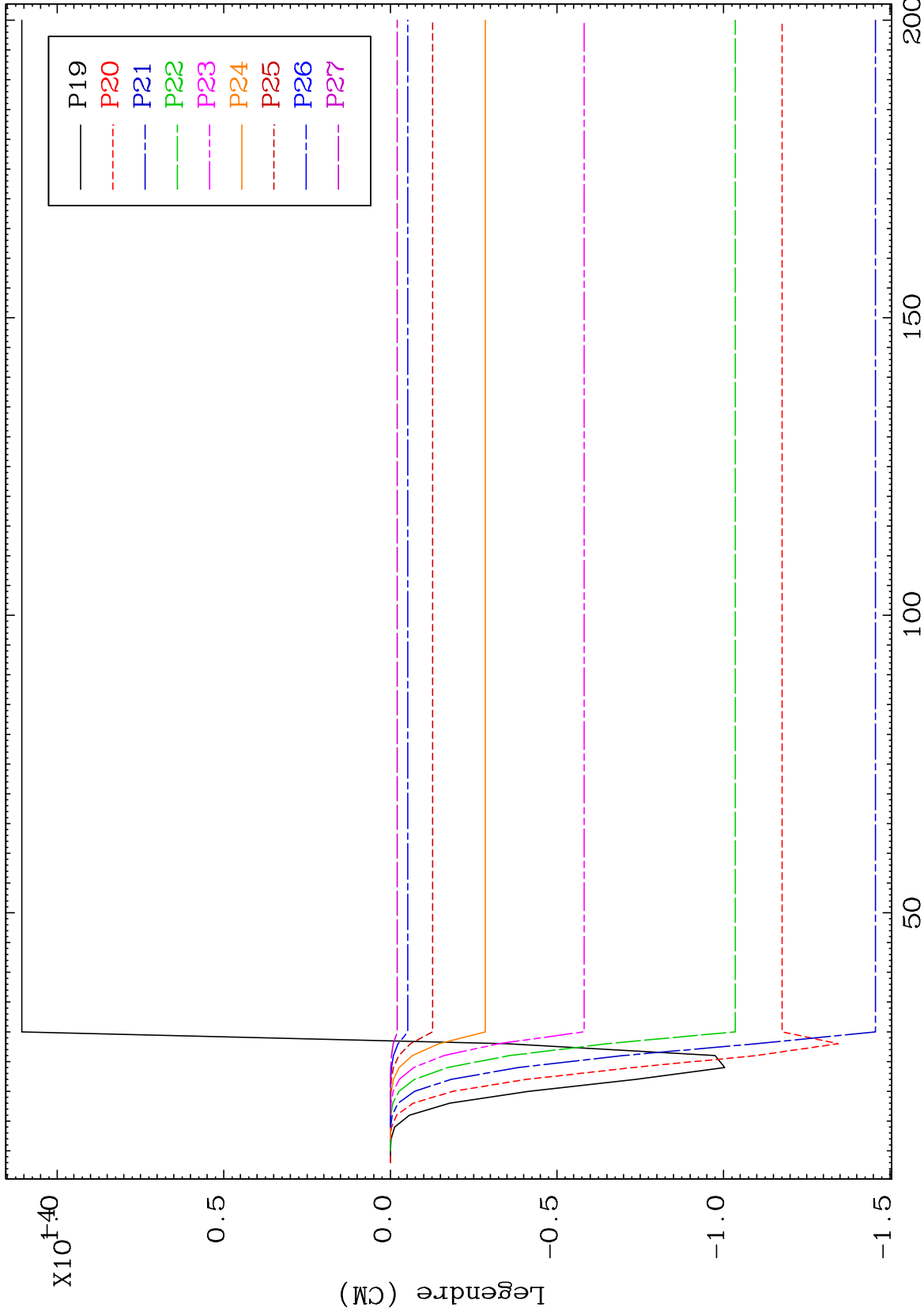
51-Sb-132



MAT 5158

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

51-Sb-132



64

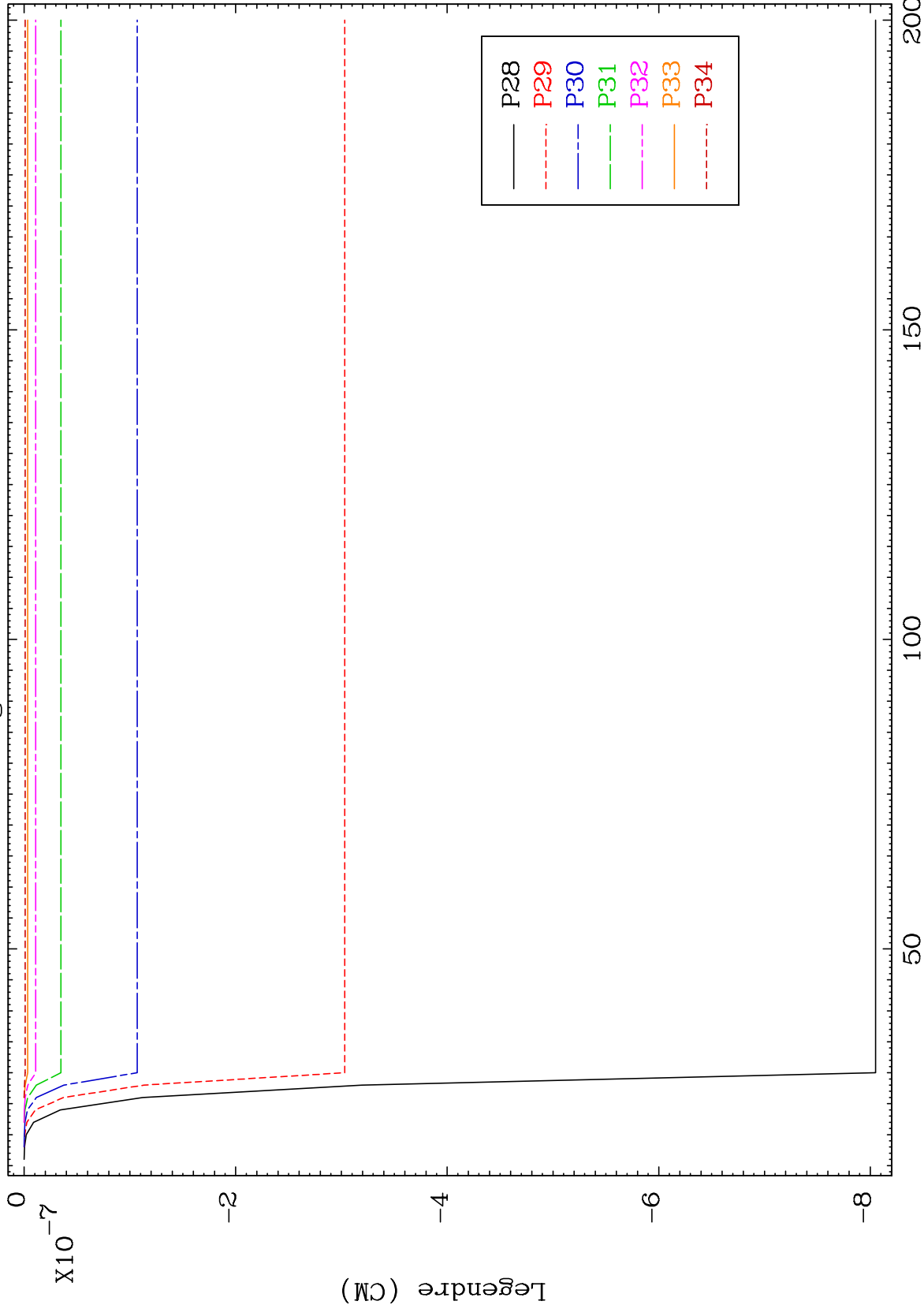
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



51-Sb-132

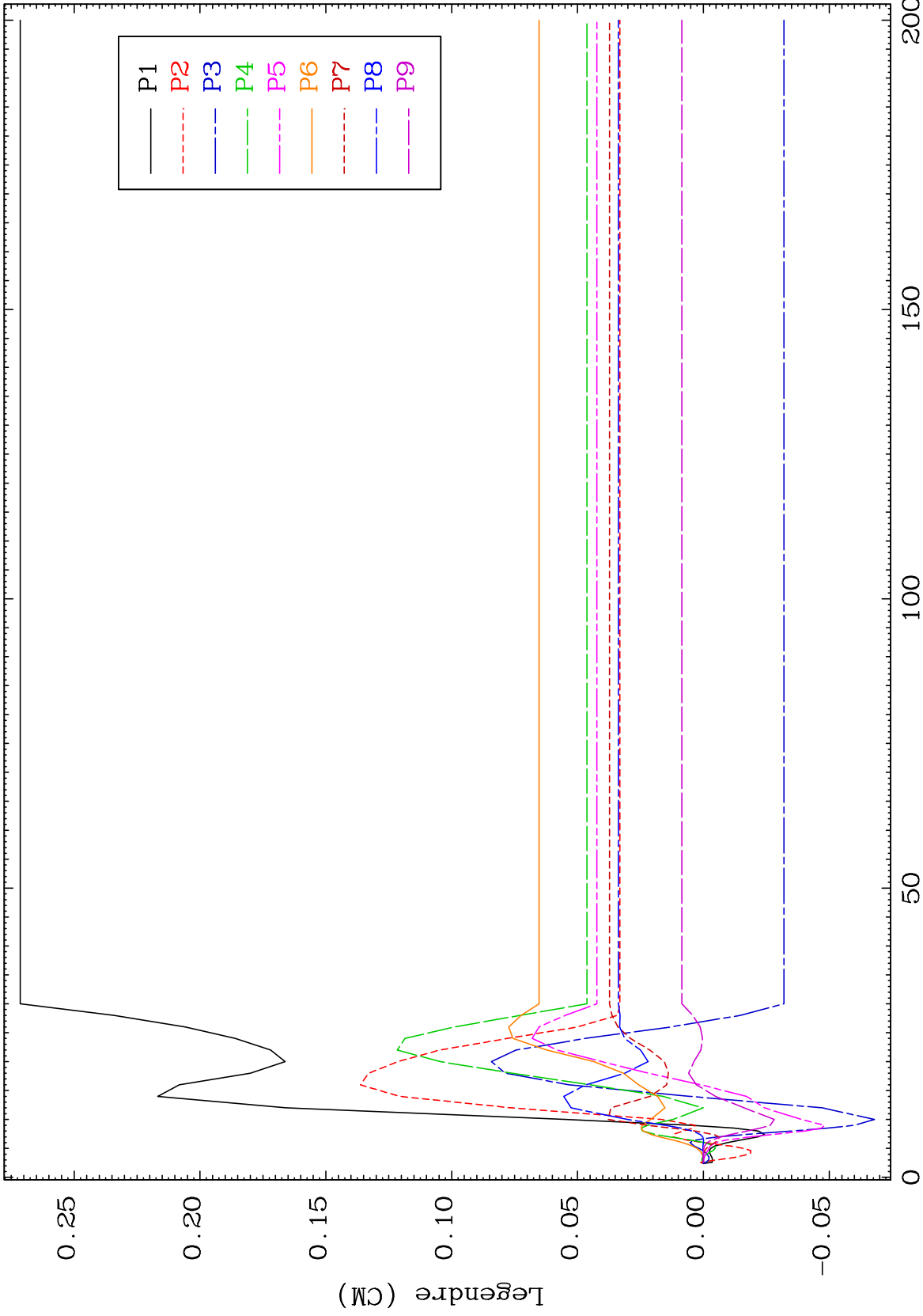
Incident Energy (MeV)

65

MAT 5158

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

51-Sb-132



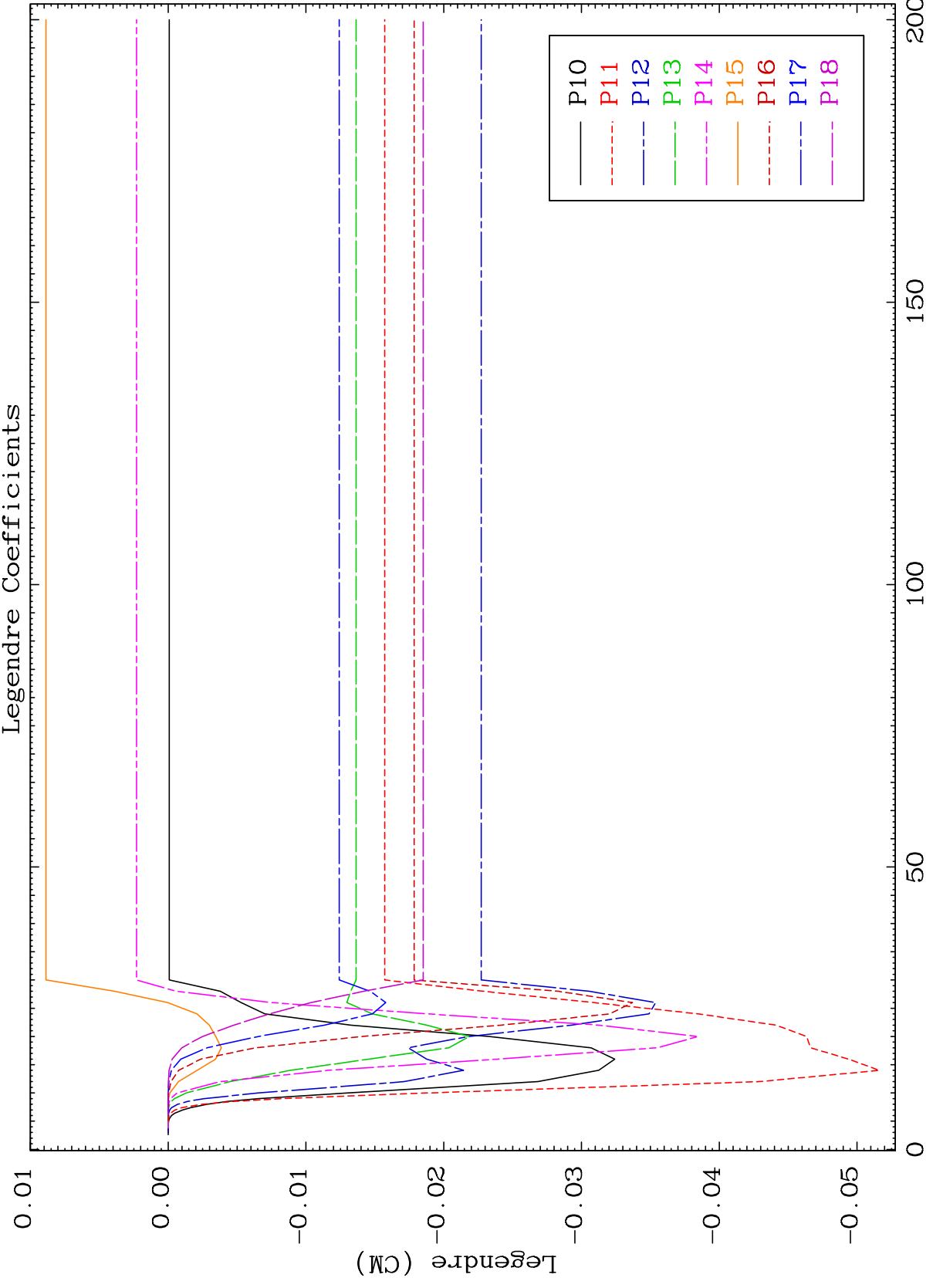
66

Incident Energy (MeV)

51-Sb-132

MAT 5158 MT= 65 (n,n') Level Legendre Coefficients

51-Sb-132

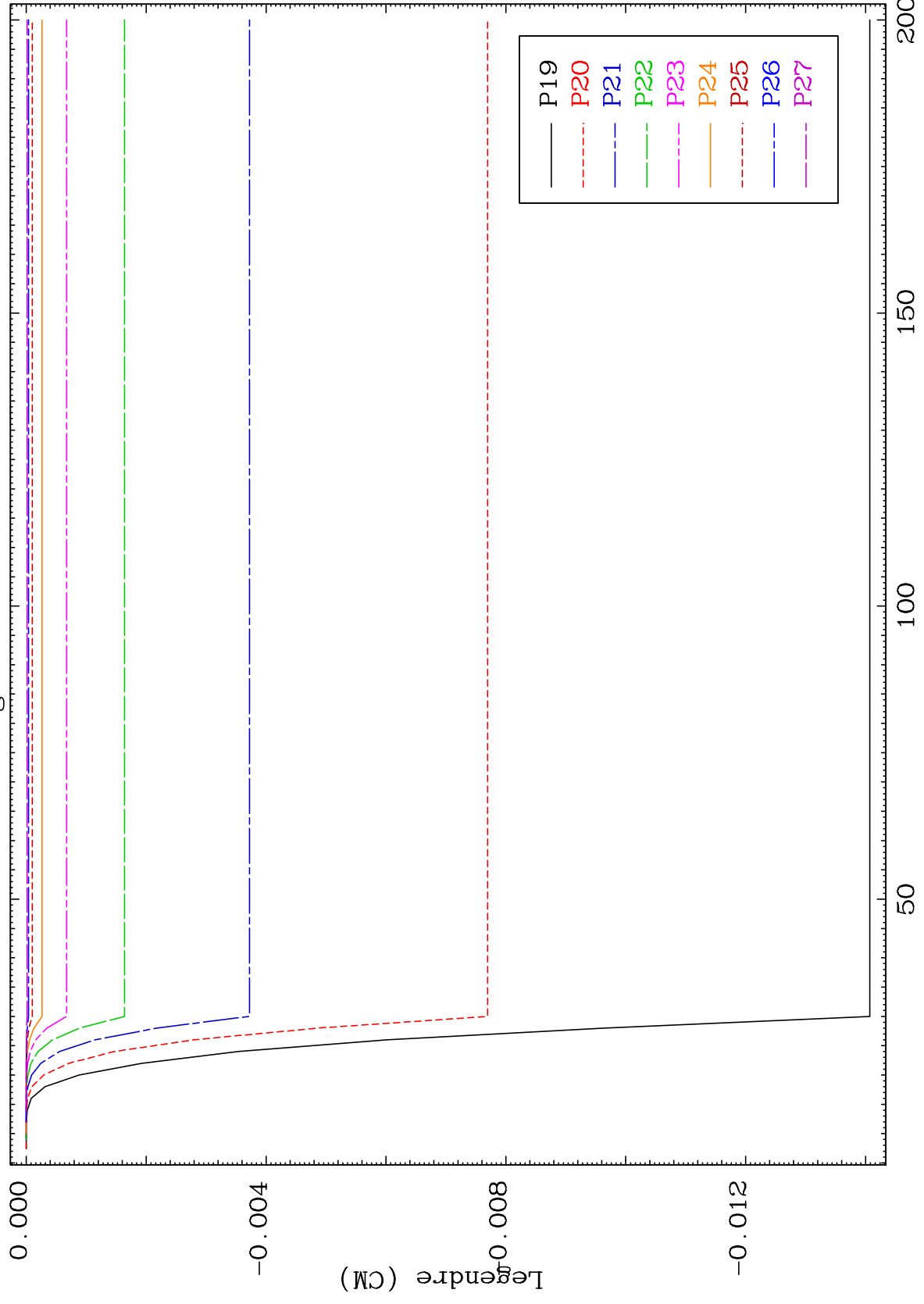


51-Sb-132

Incident Energy (MeV)

67

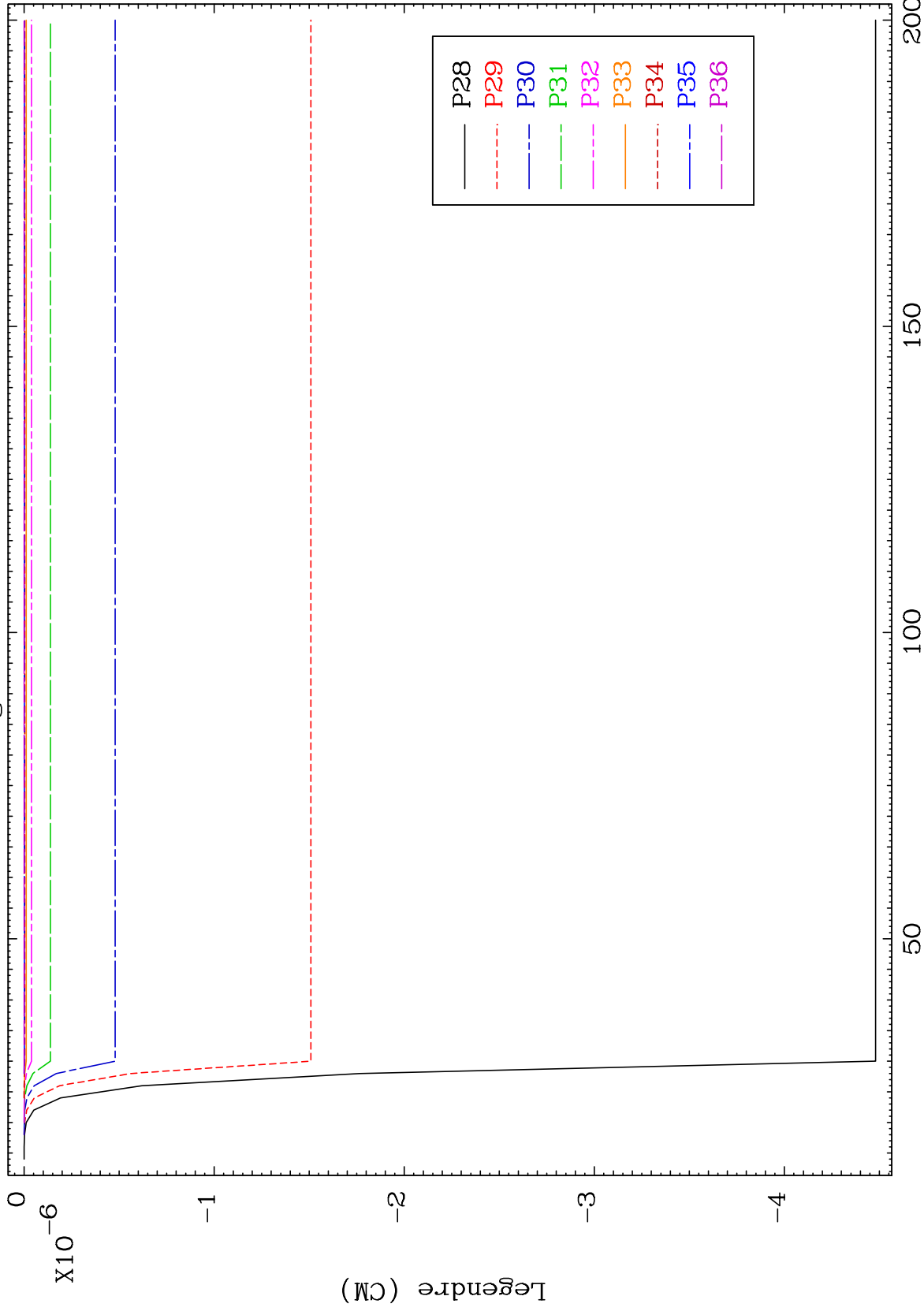
MAT 5158 MT= 65 (n,n') Level Legendre Coefficients 51-Sb-132



MAT 5158

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

51-Sb-132



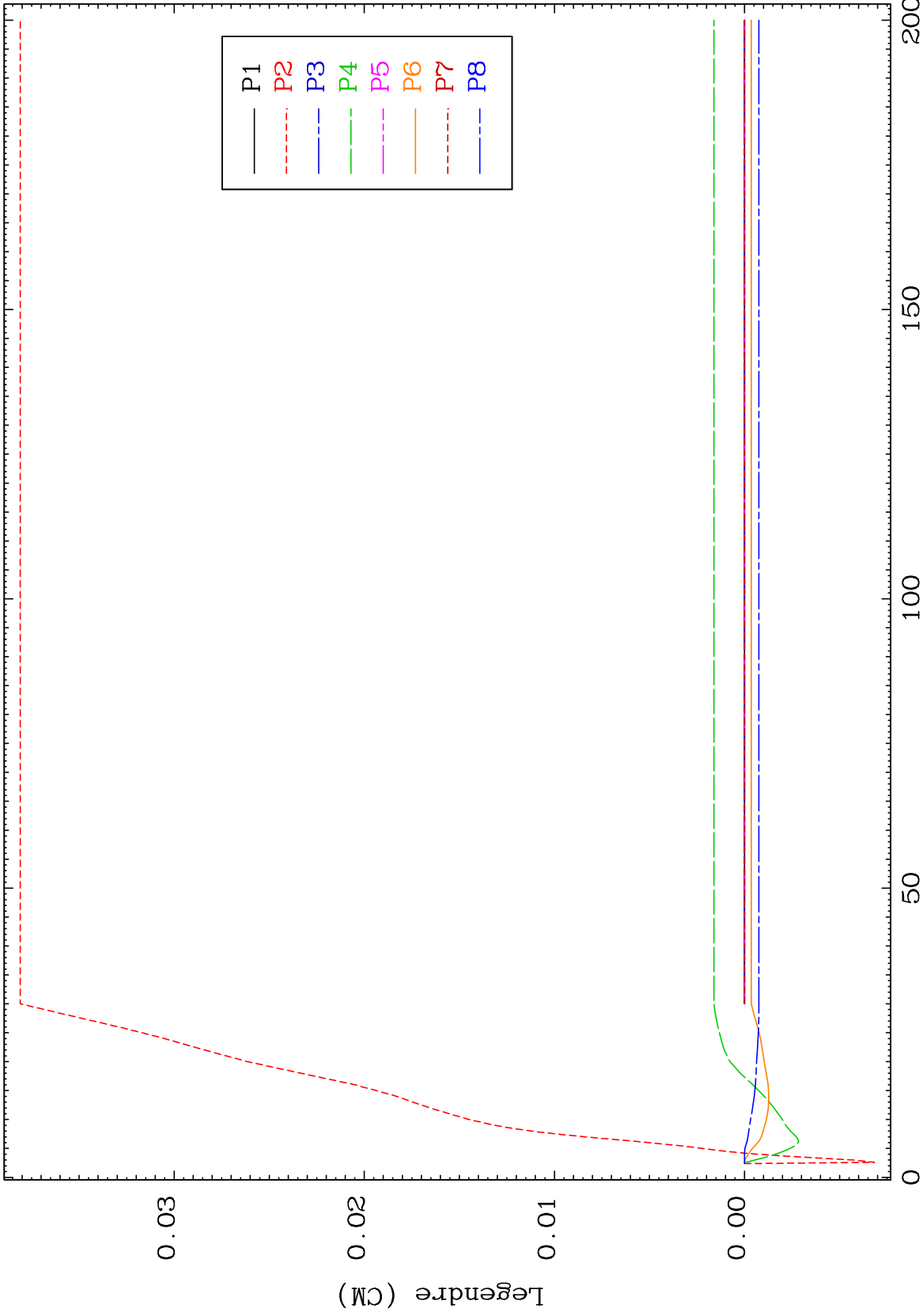
69

51-Sb-132

MAT 5158

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

51-Sb-132



70

Incident Energy (MeV)

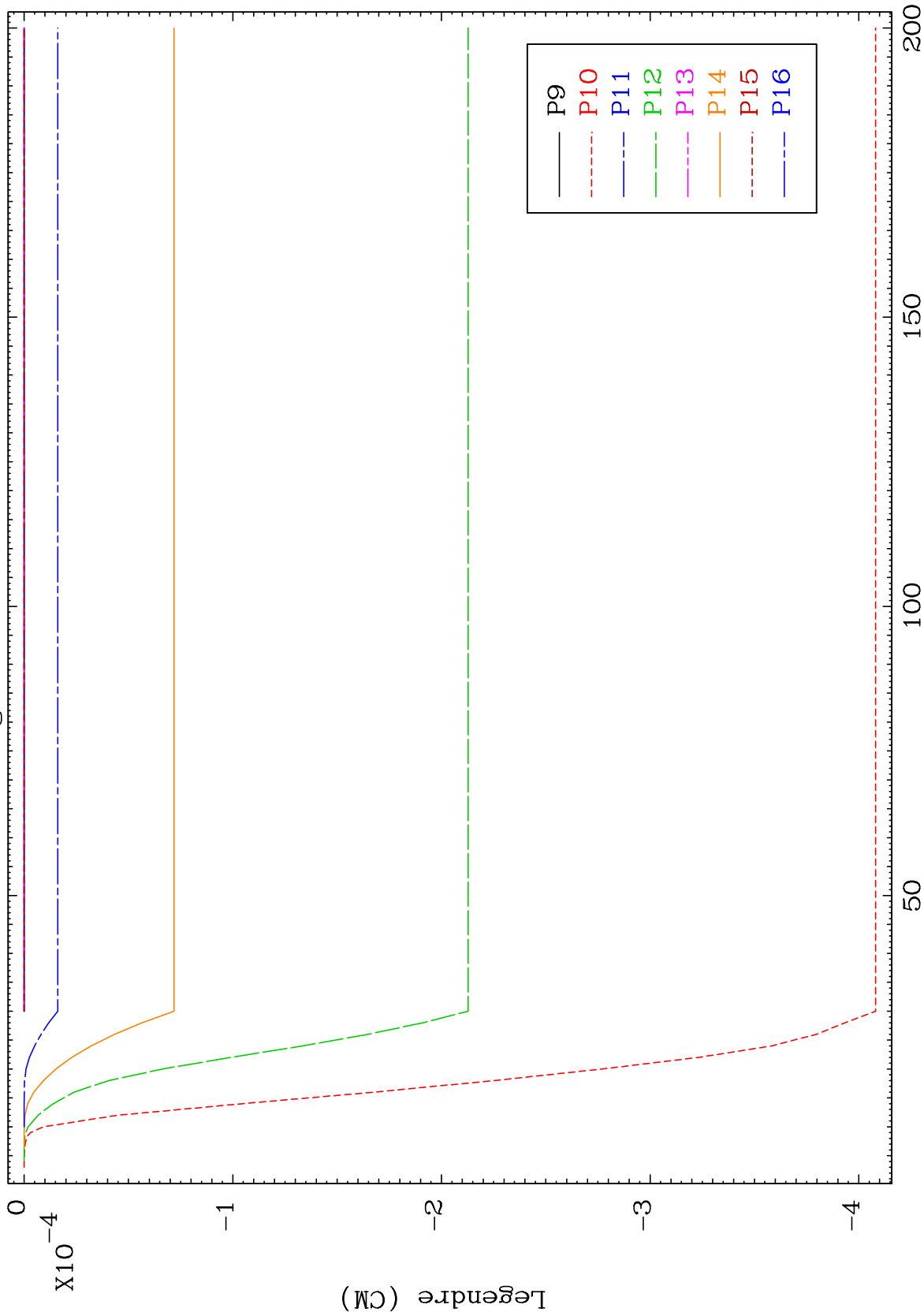
150

51-Sb-132

MAT 5158

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

51-Sb-132



71

Incident Energy (MeV)

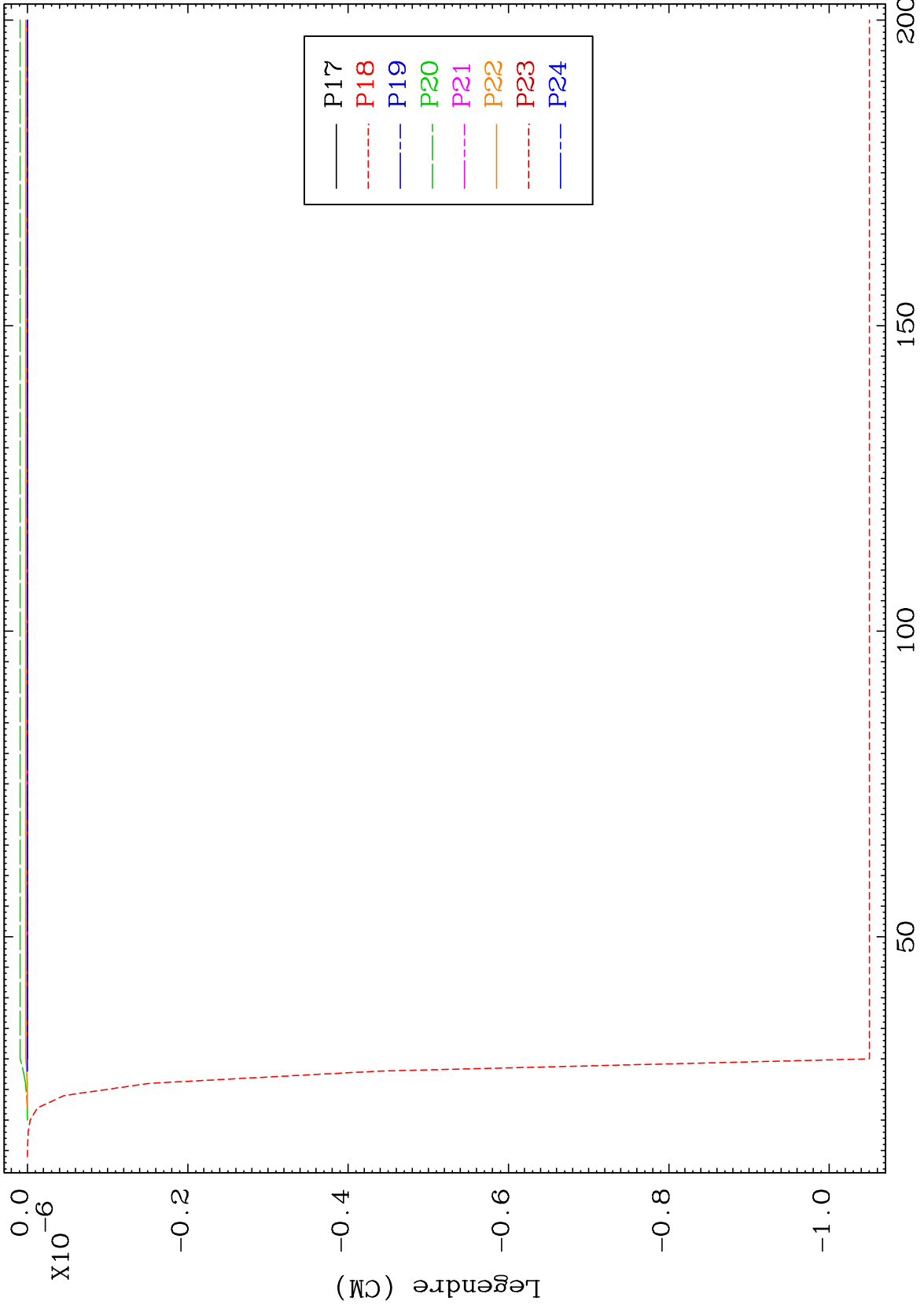
51-Sb-132



MAT 5158

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

51-Sb-132



72

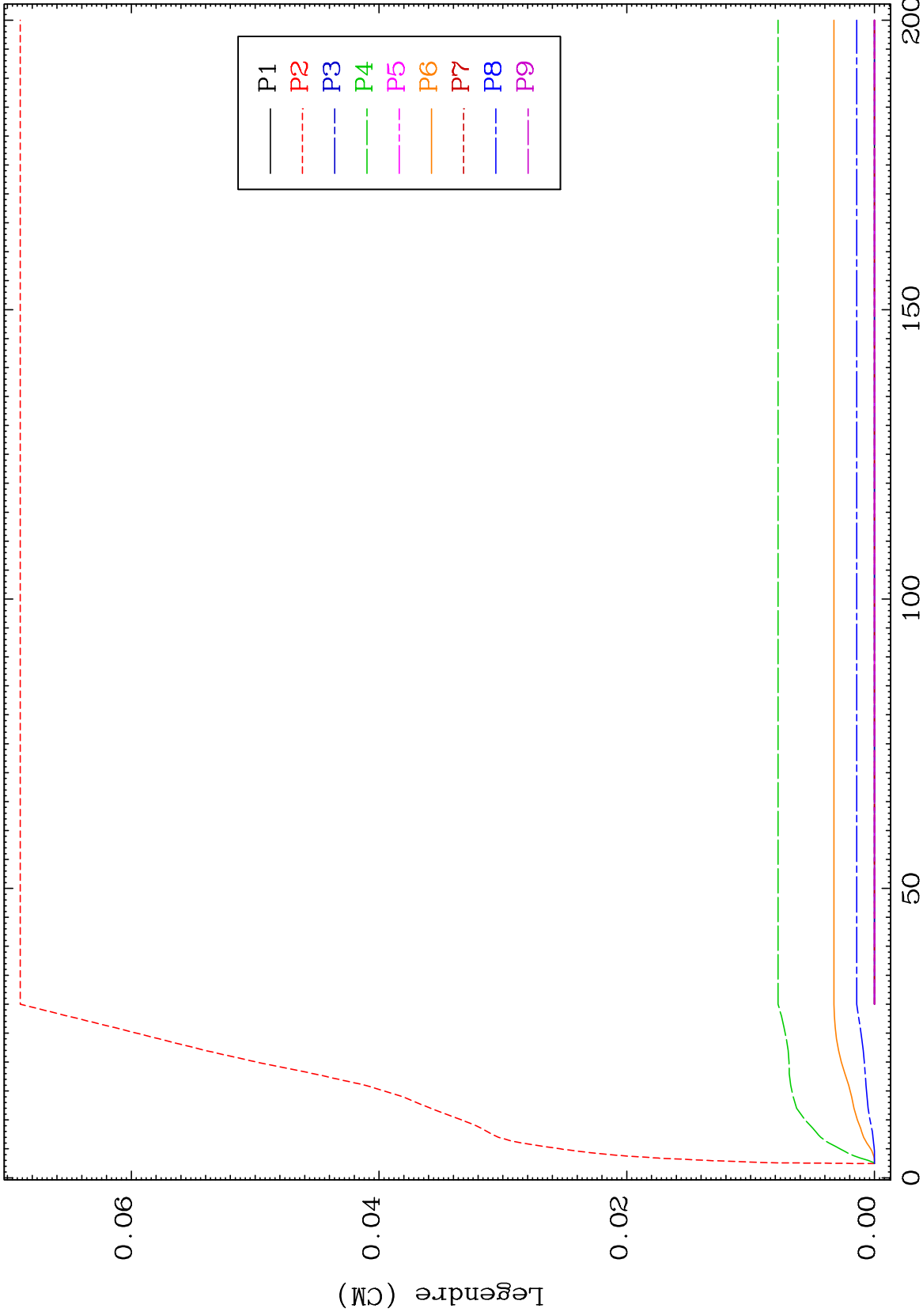
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



73

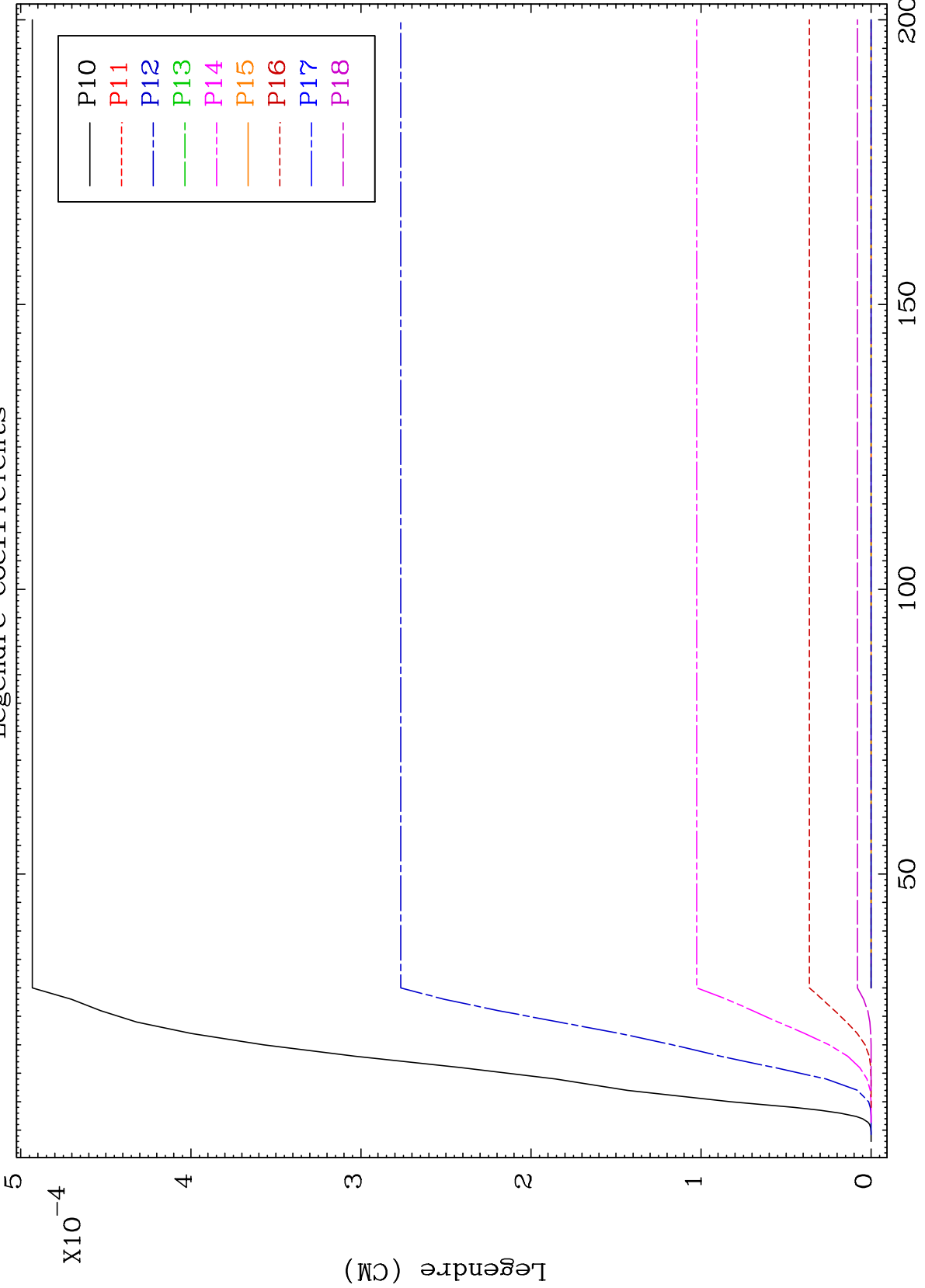
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



74

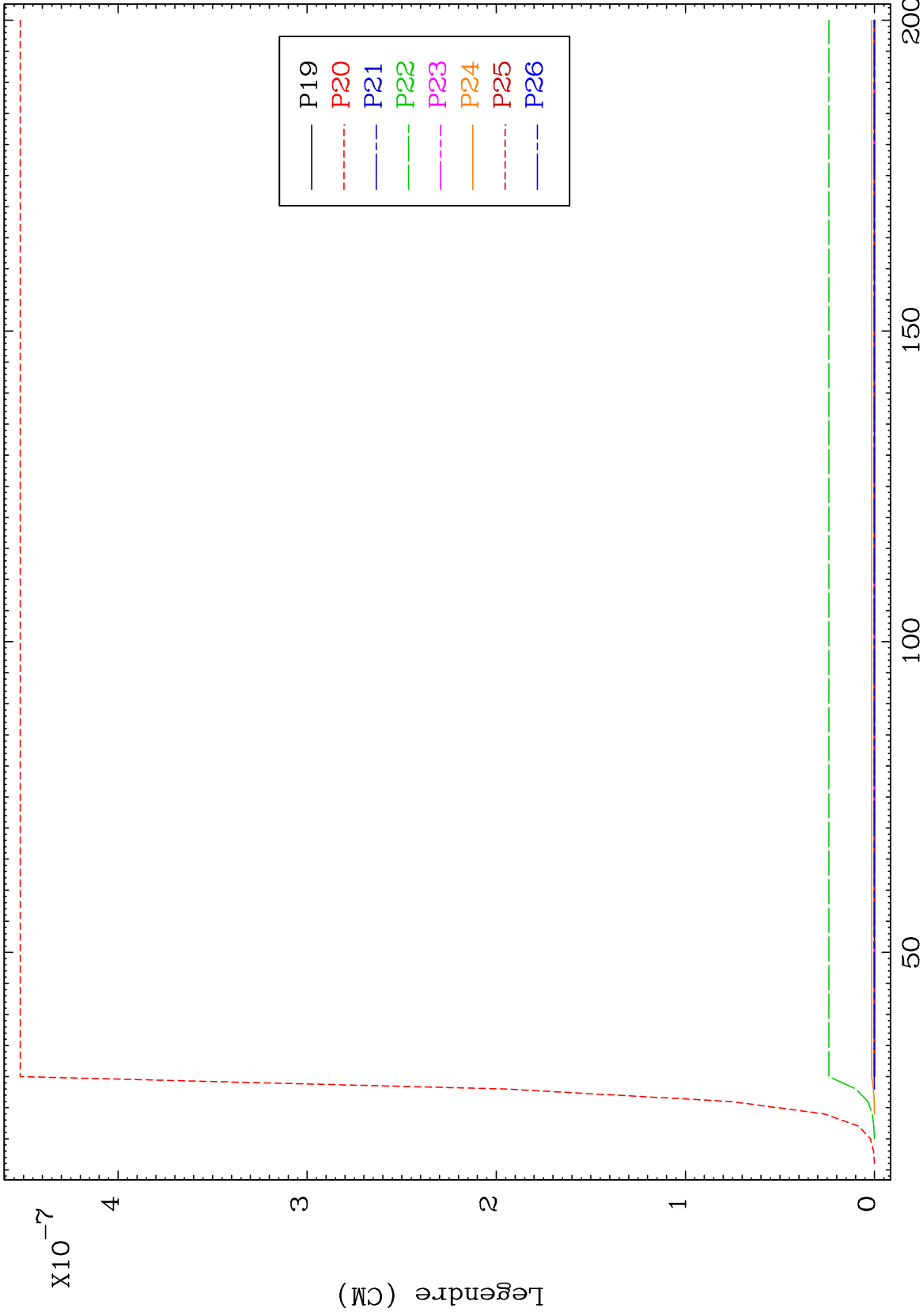
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



75

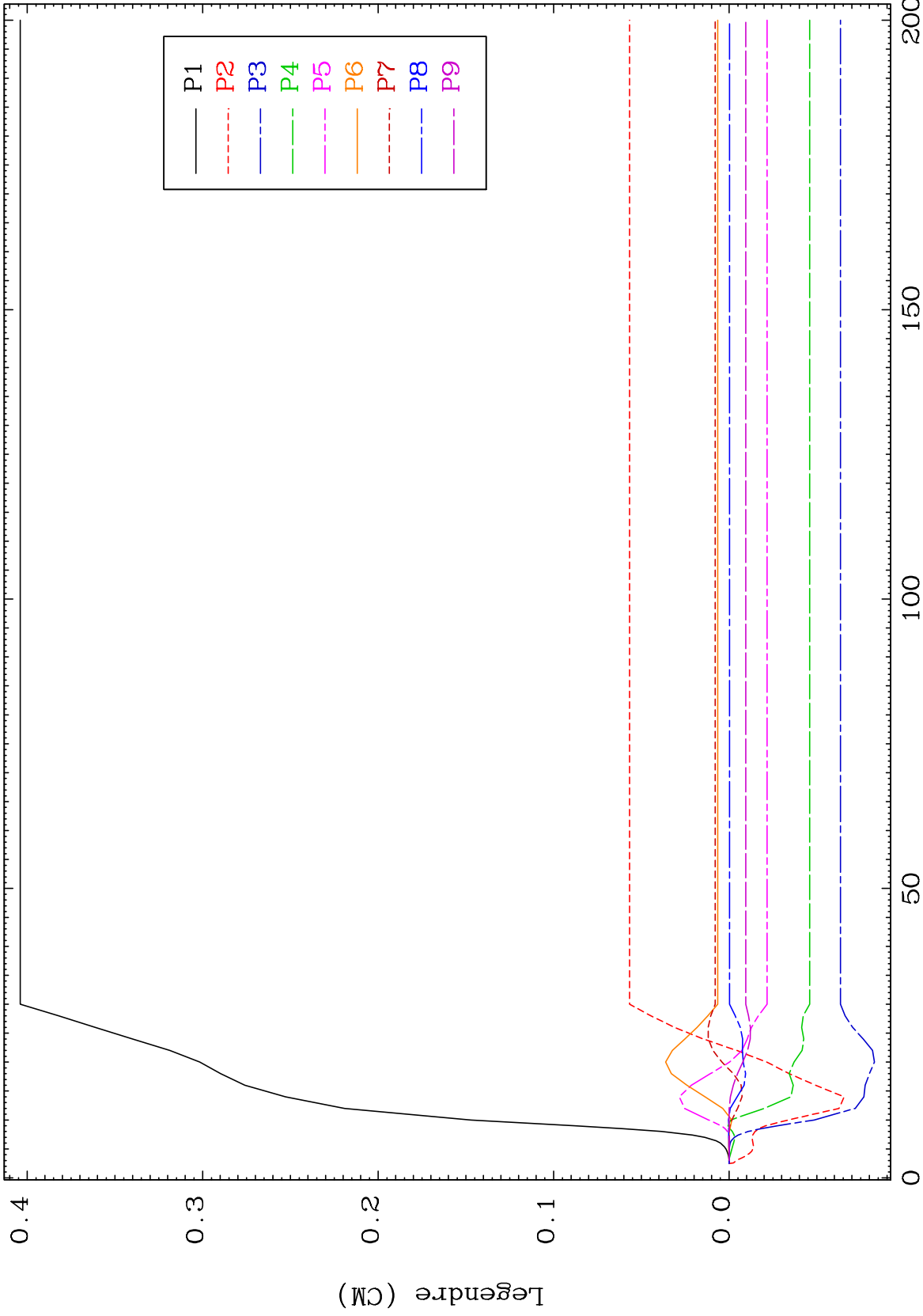
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



76

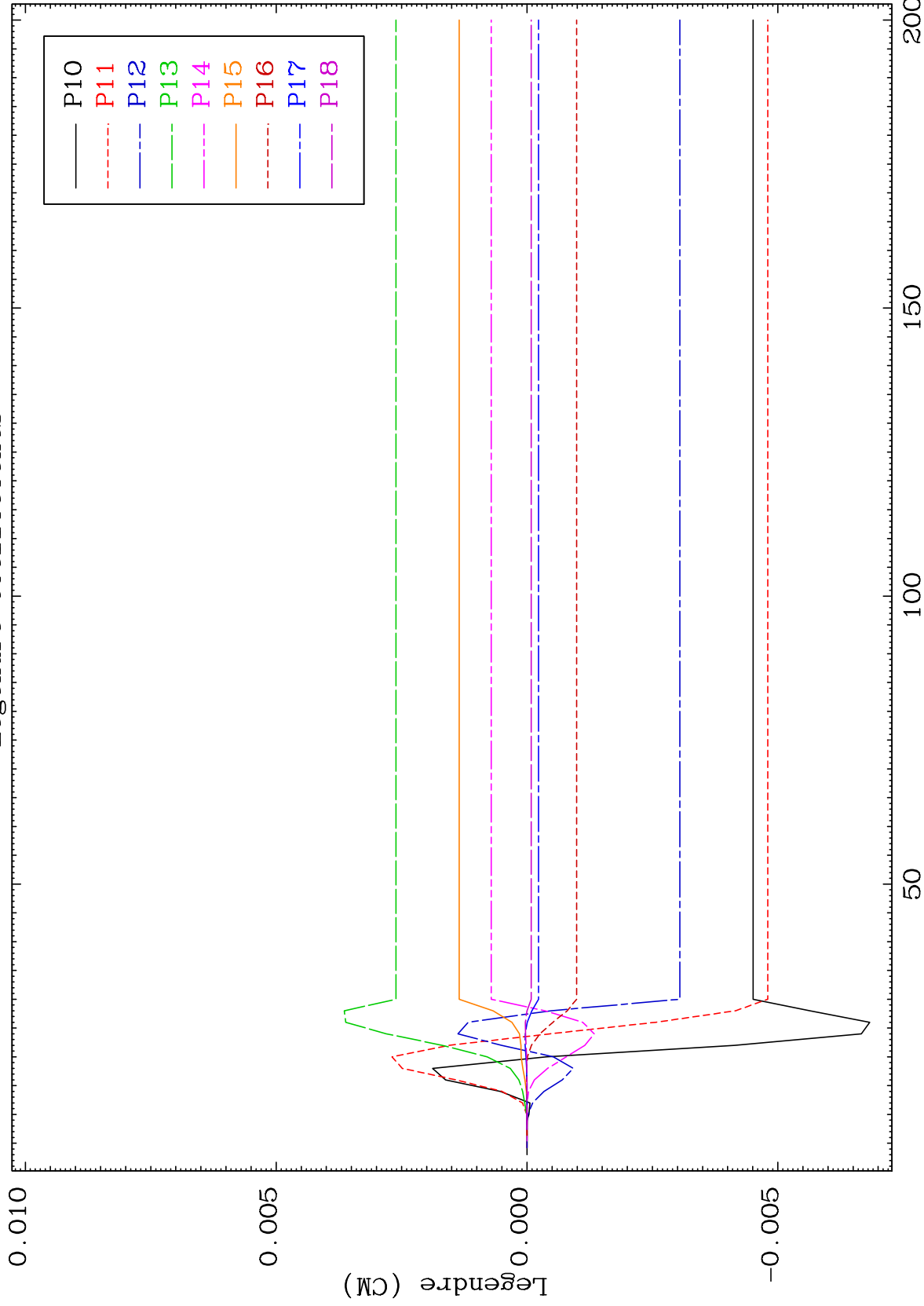
51-Sb-132

51-Sb-132

MAT 5158

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

51-Sb-132



77

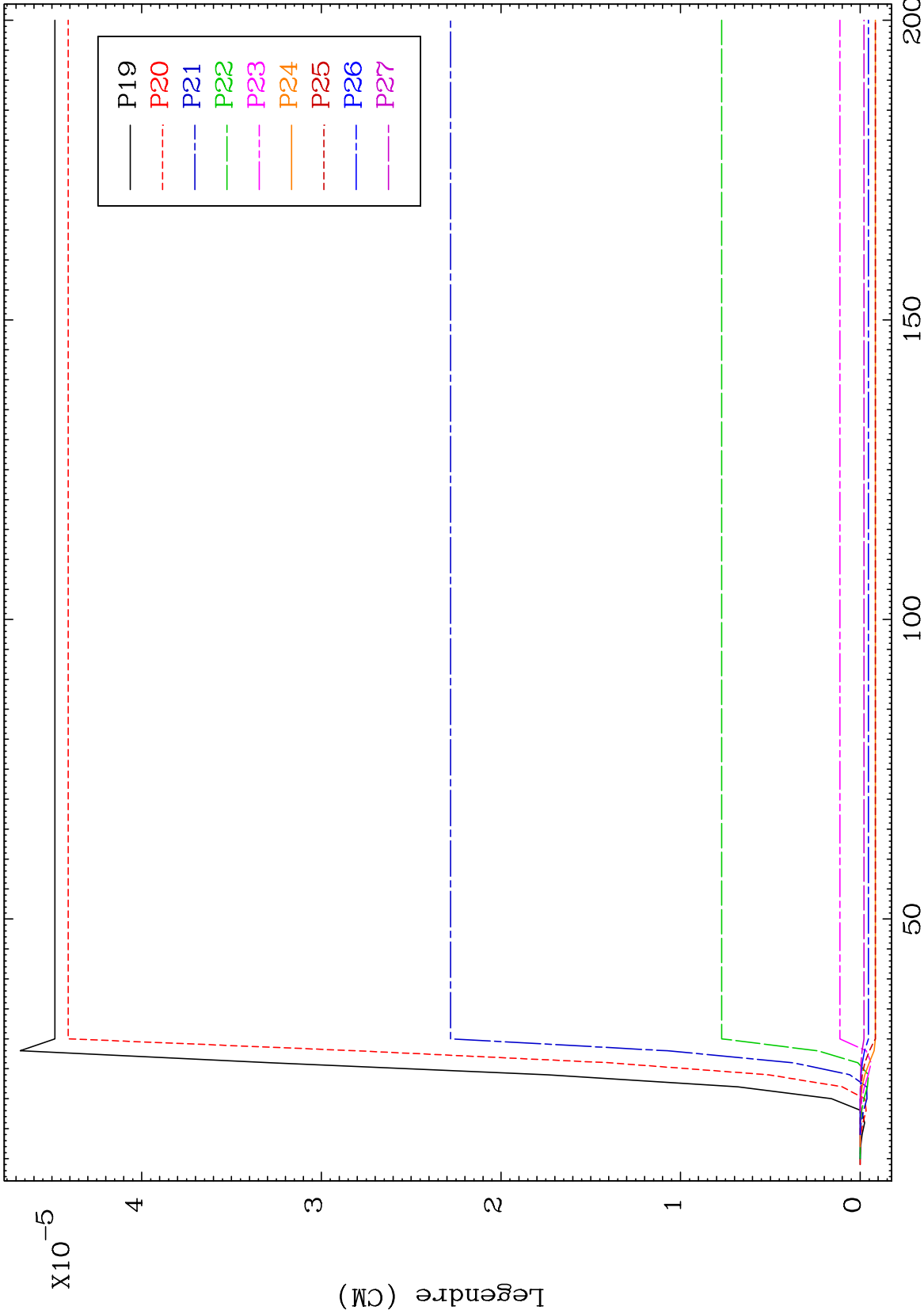
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



78

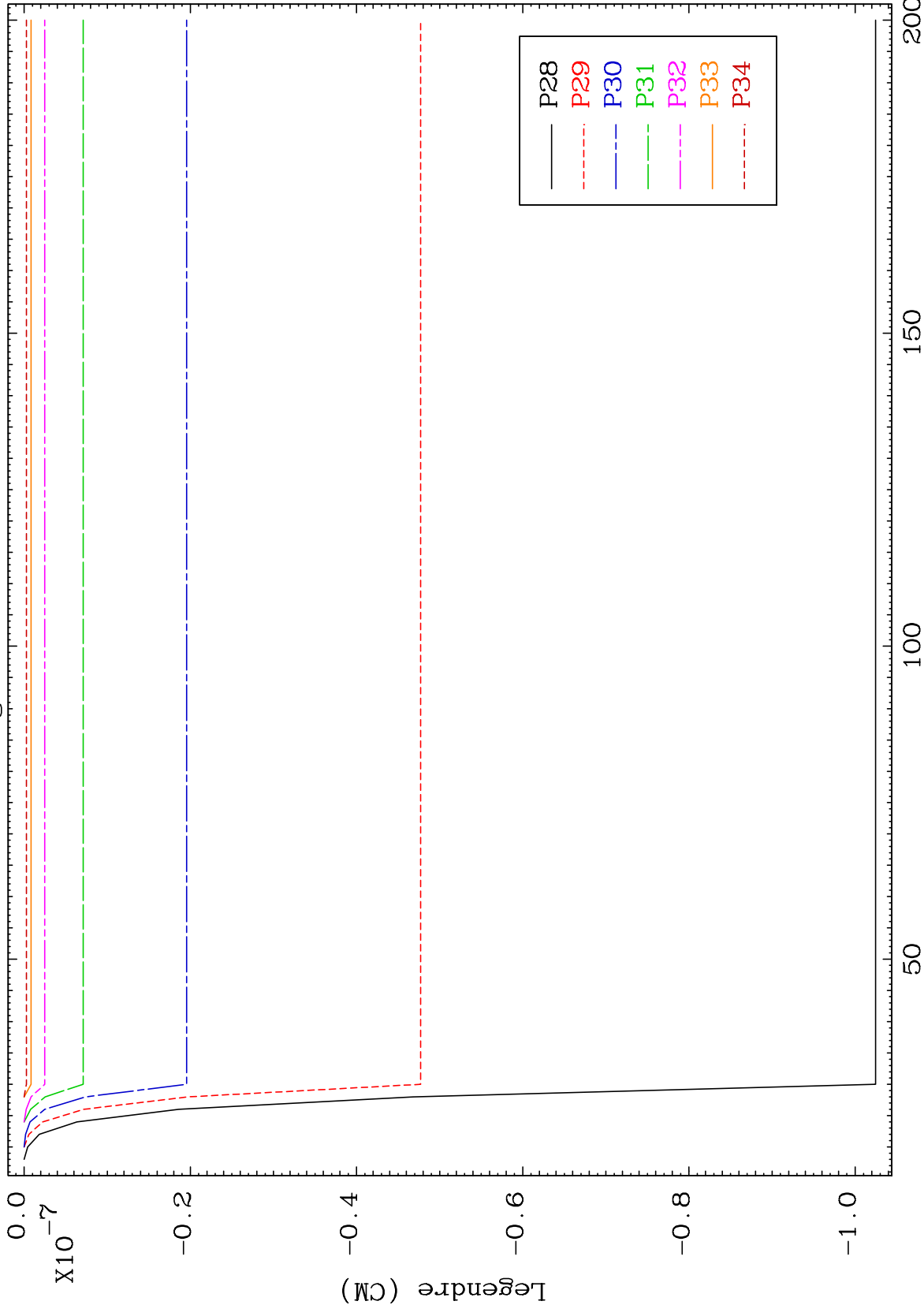
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



51-Sb-132

Incident Energy (MeV)

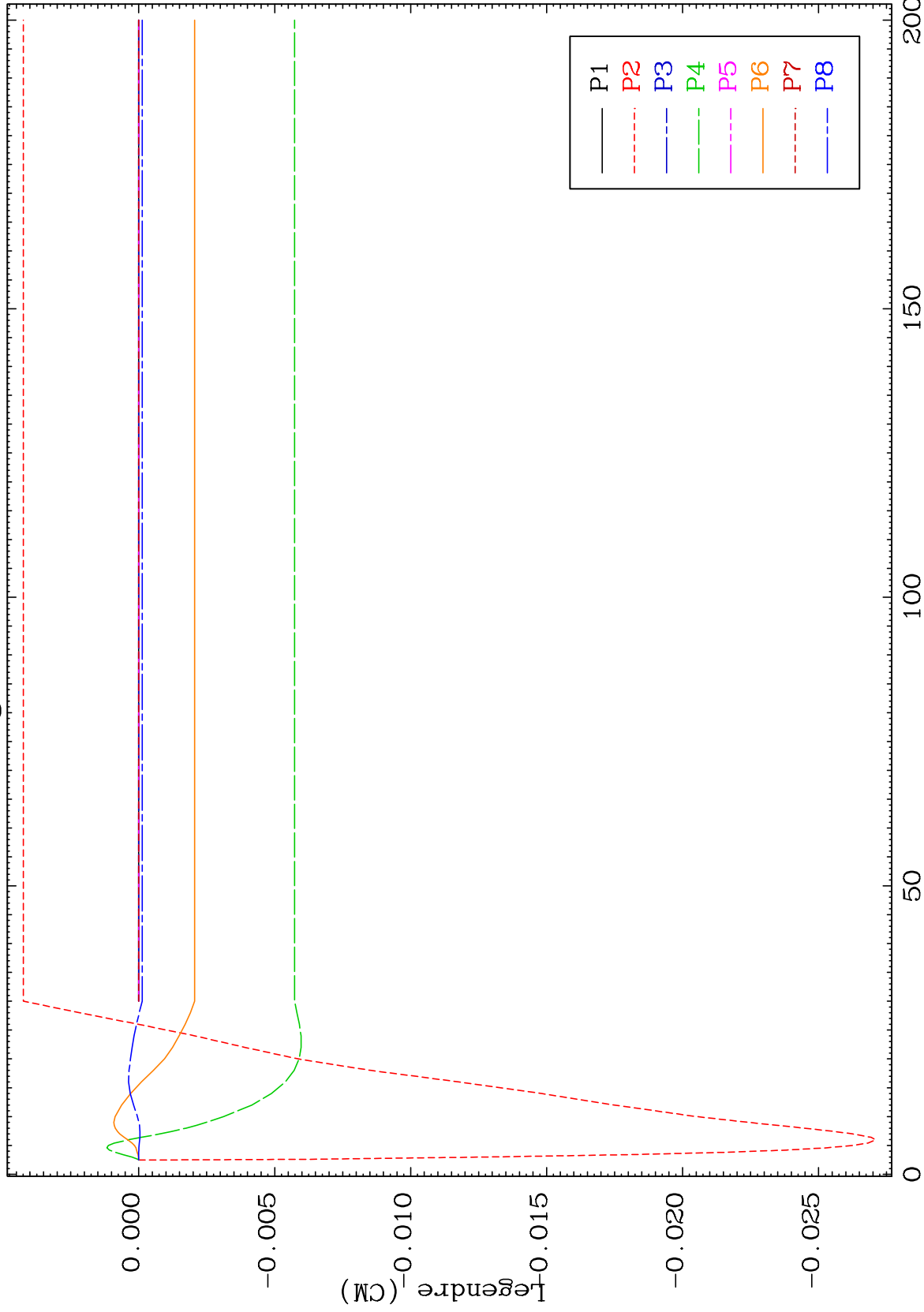
79



MAT 5158

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

51-Sb-132



80

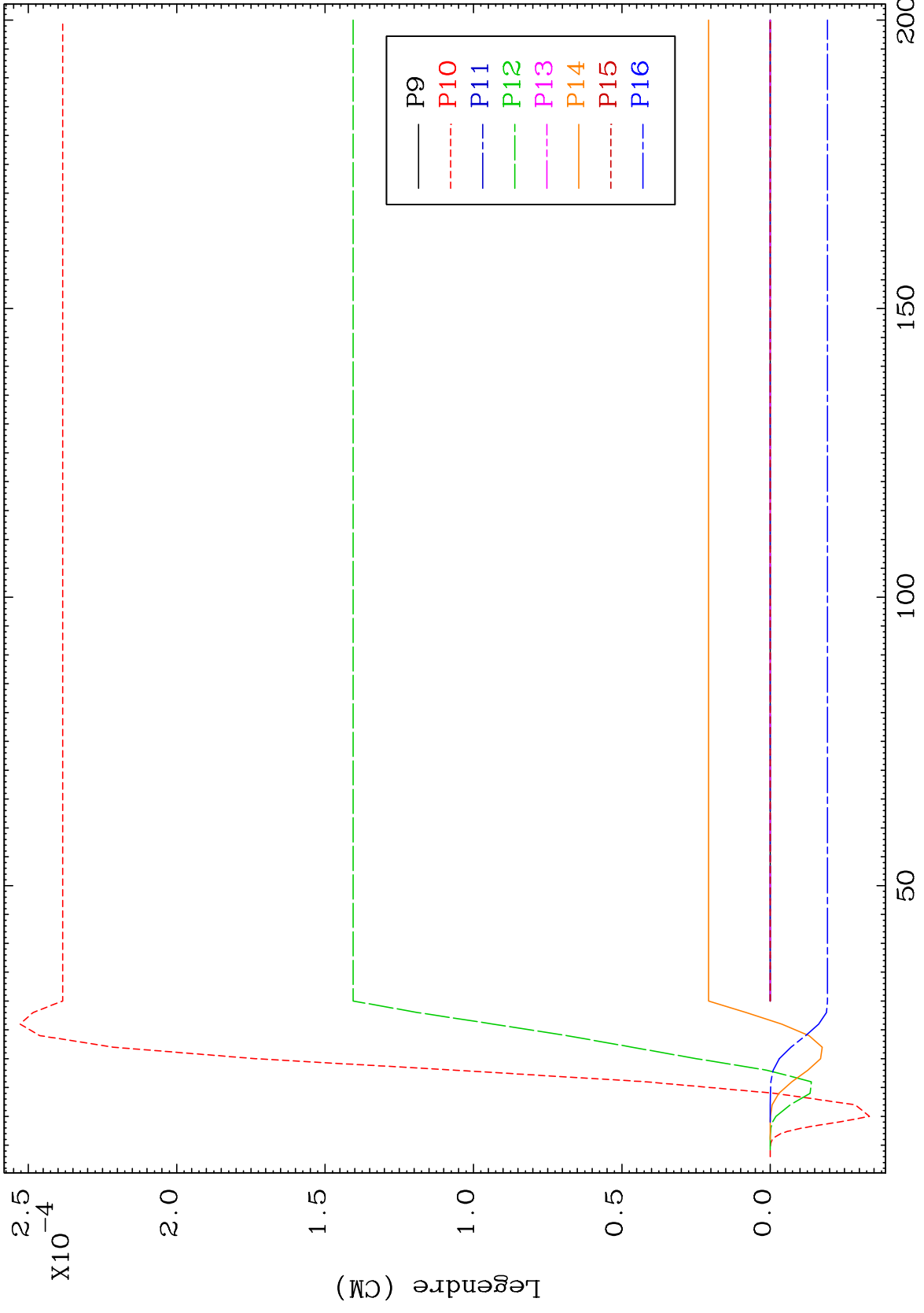
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



81

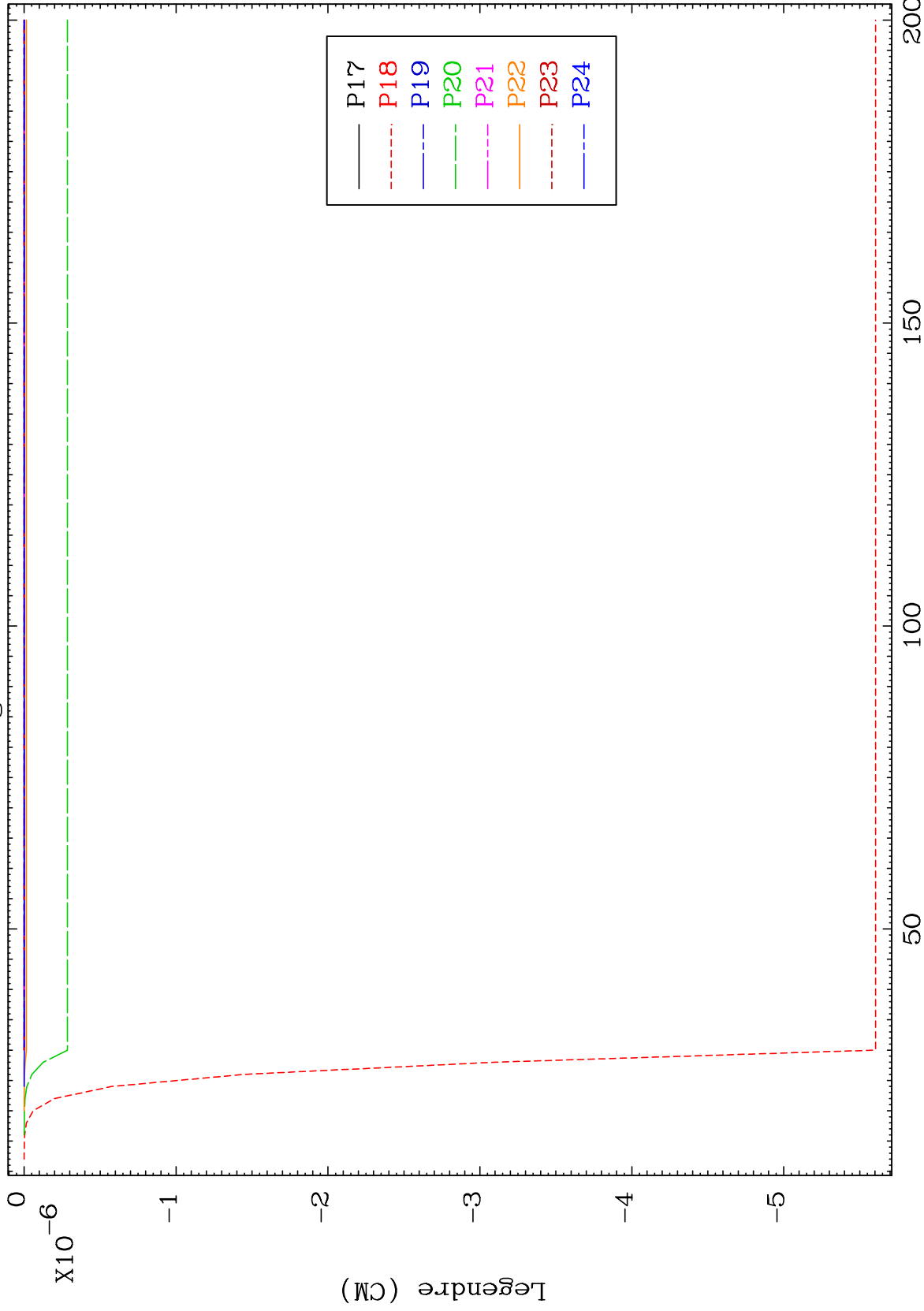
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



82

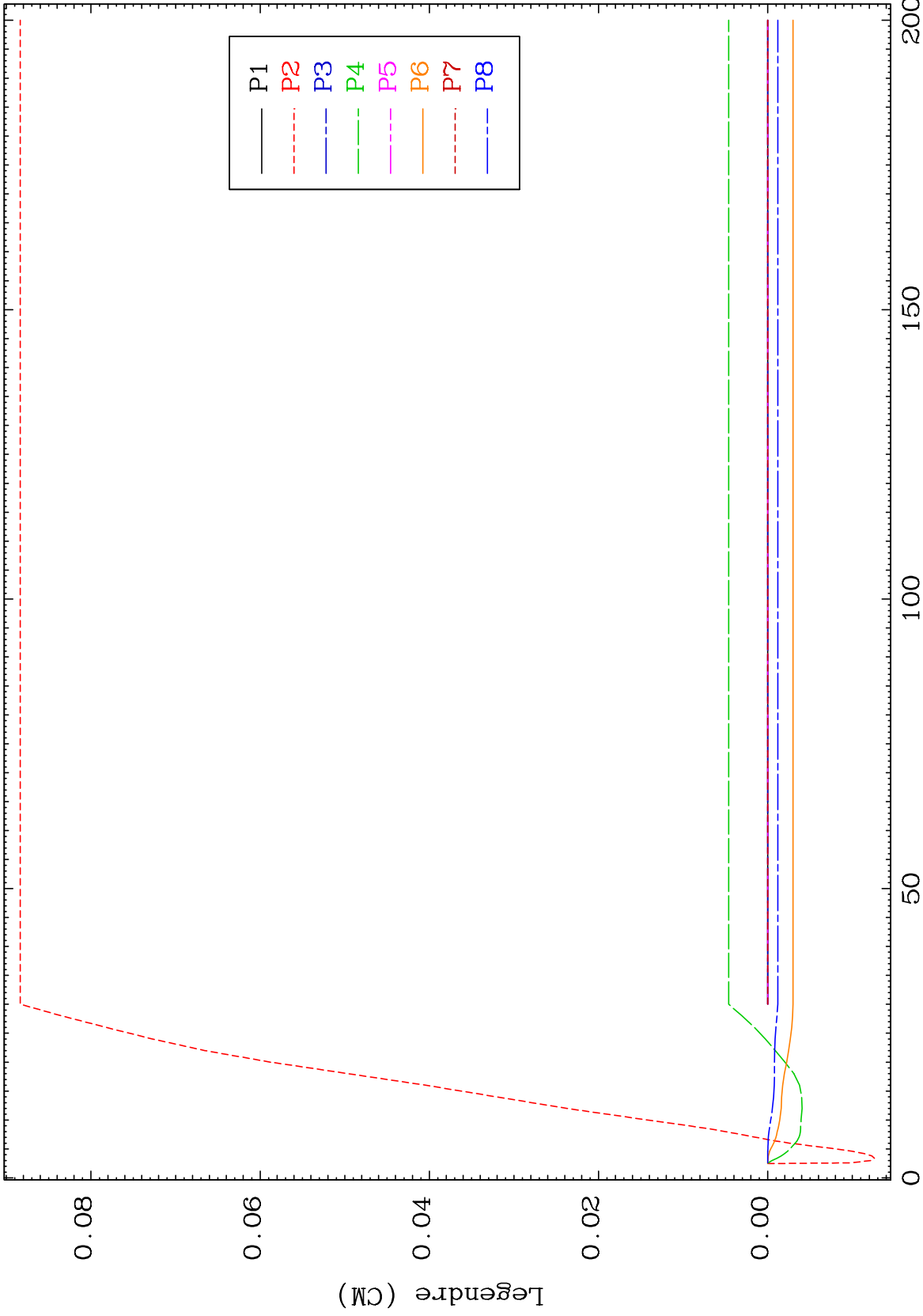
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



83

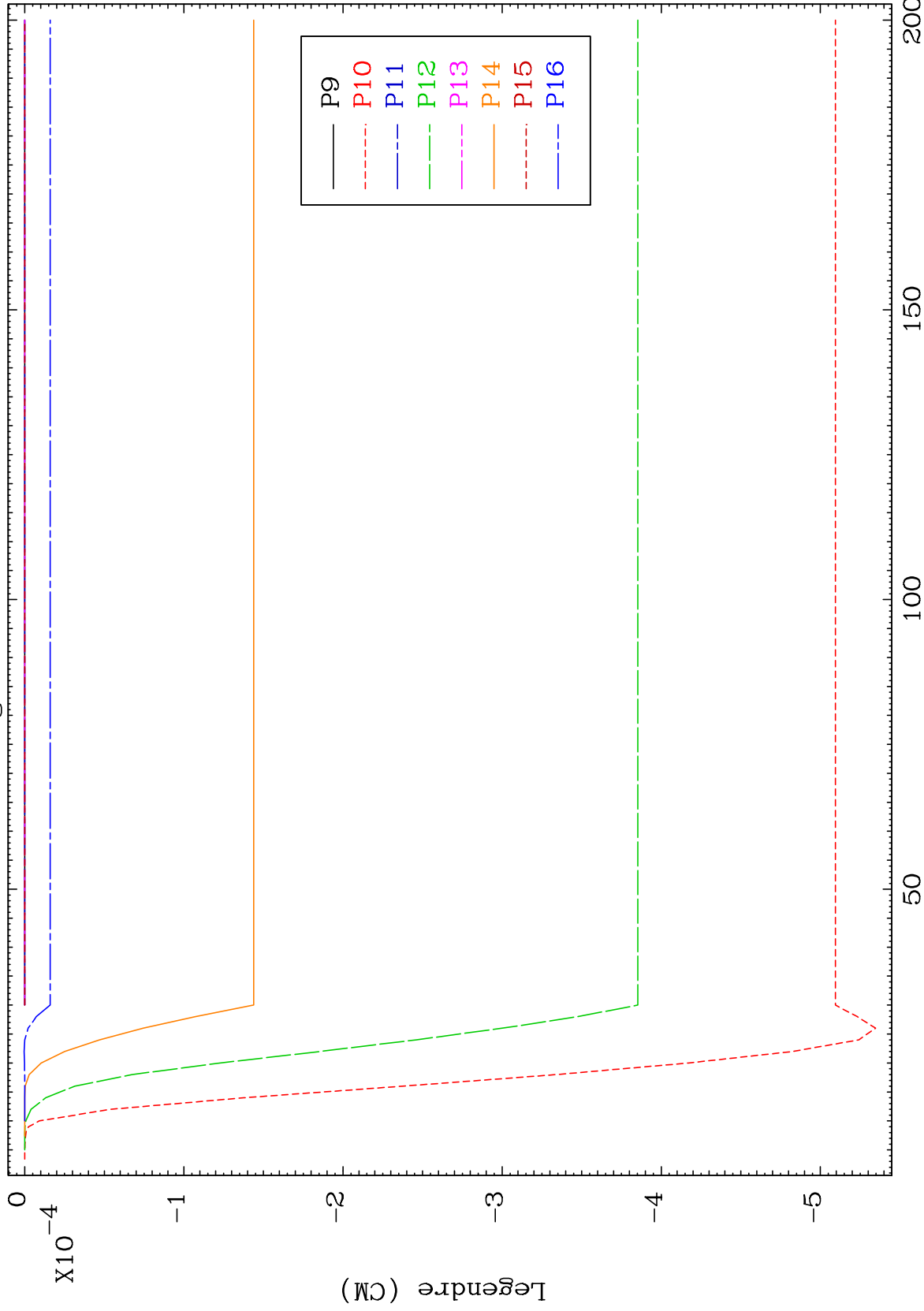
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



84

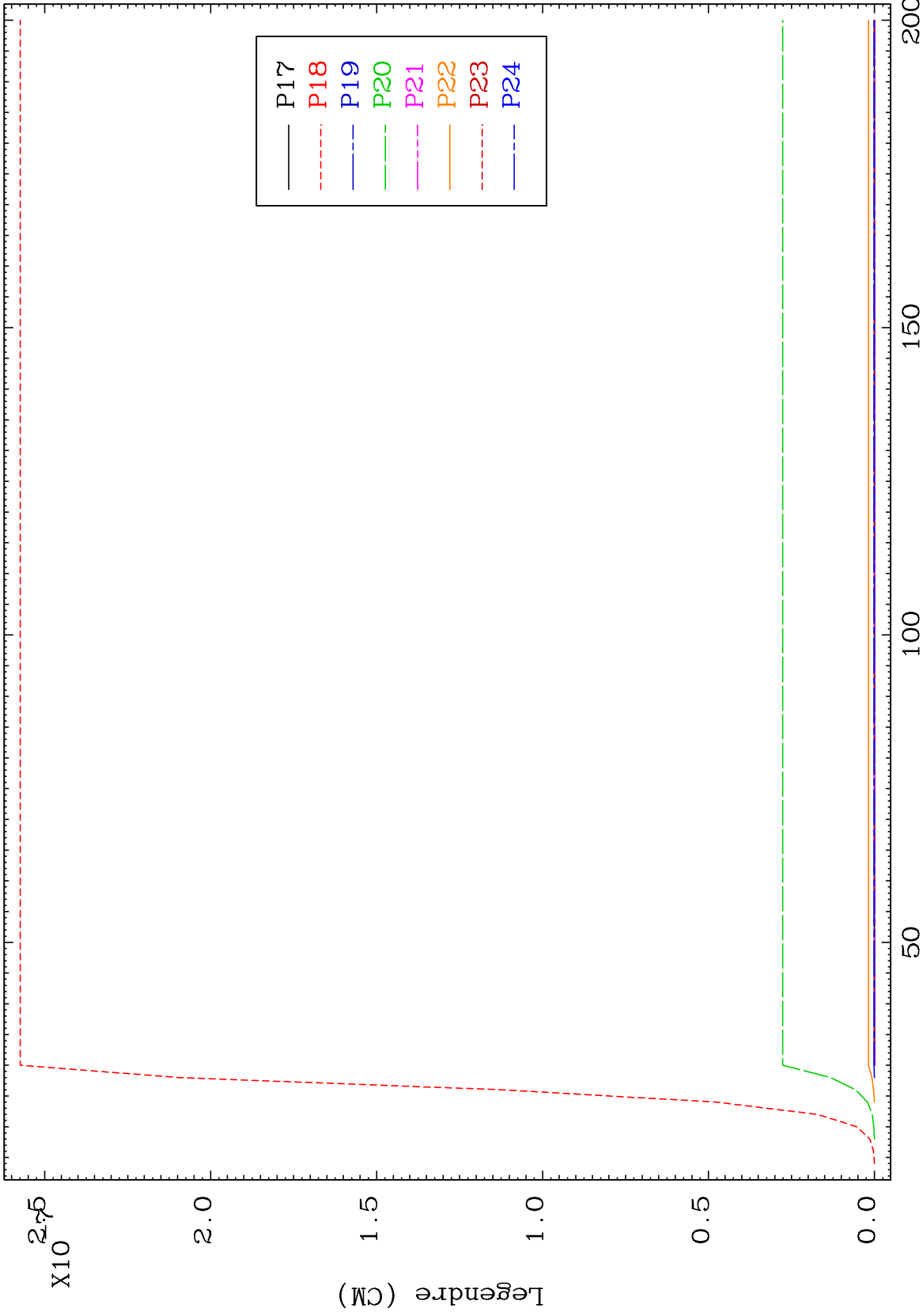
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



85

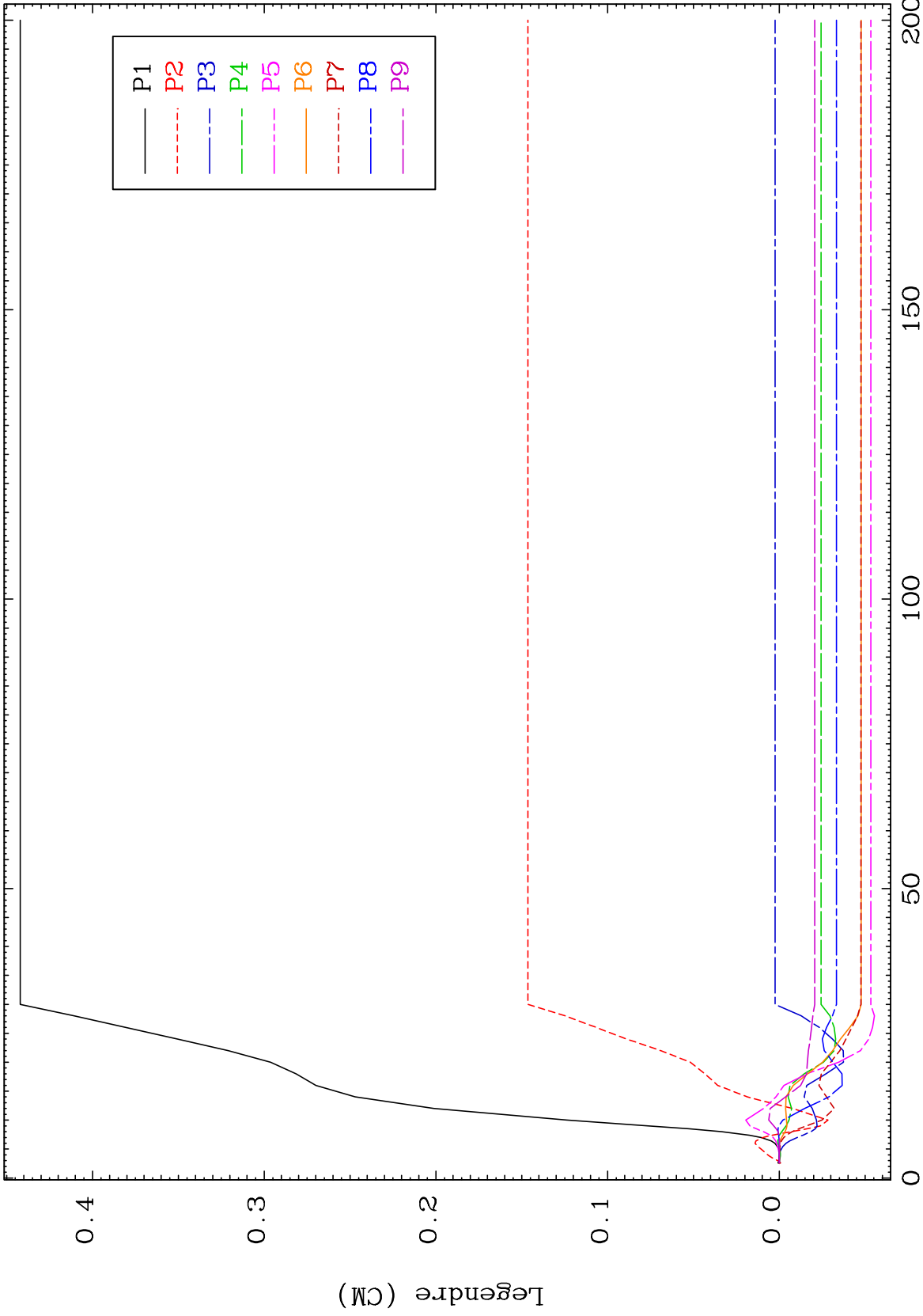
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



86

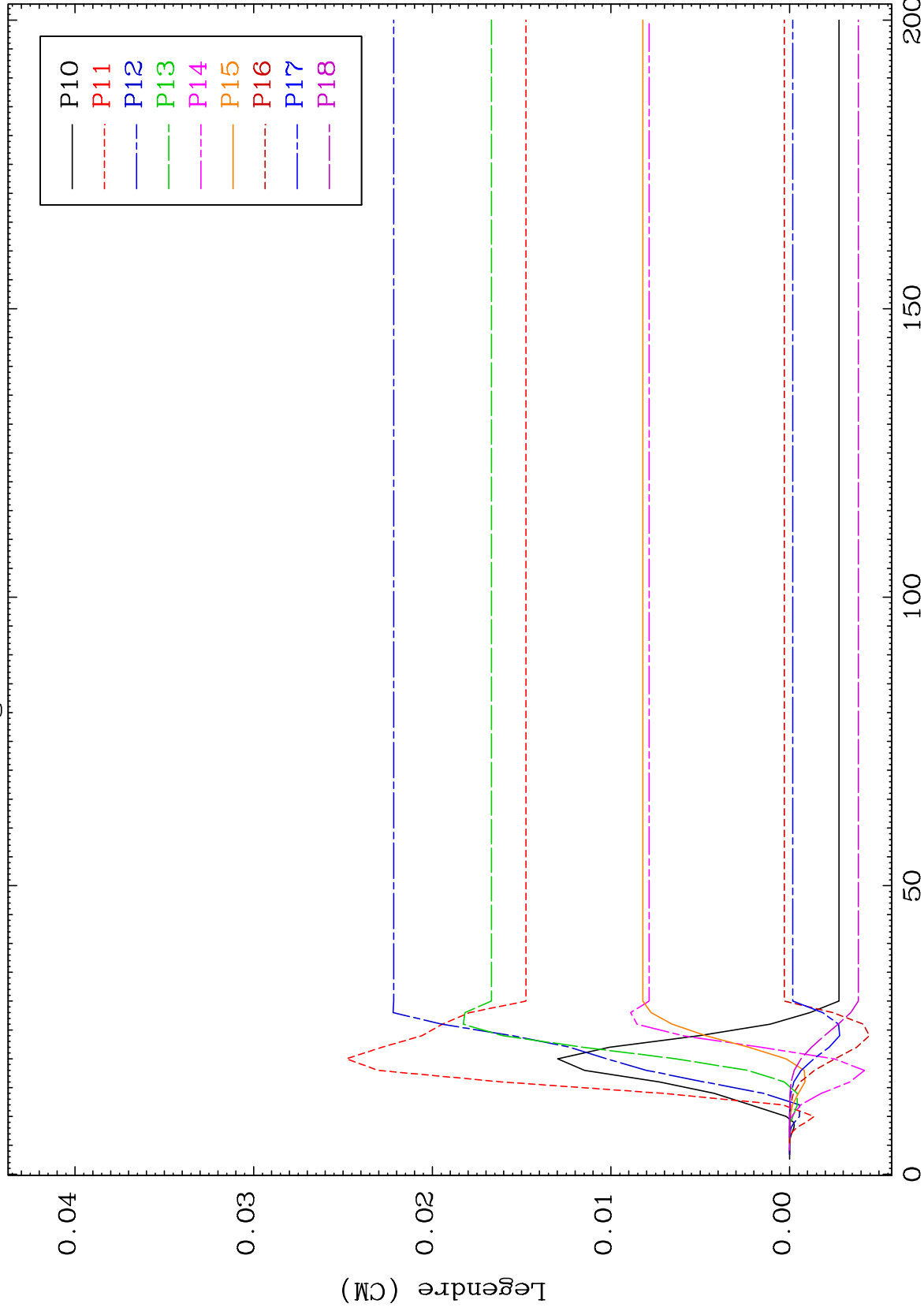
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



87

Incident Energy (MeV)

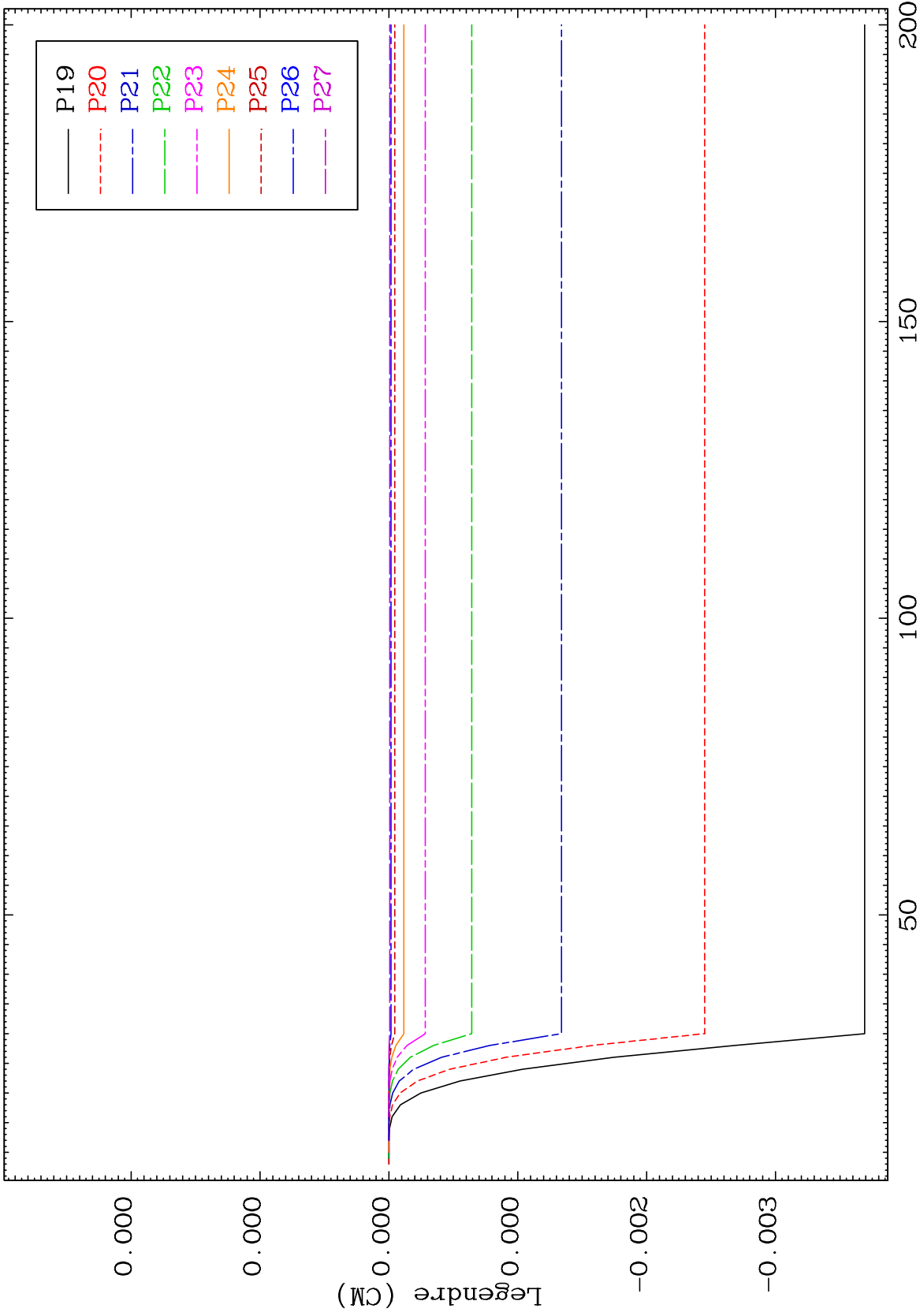
51-Sb-132



MAT 5158

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

51-Sb-132



88

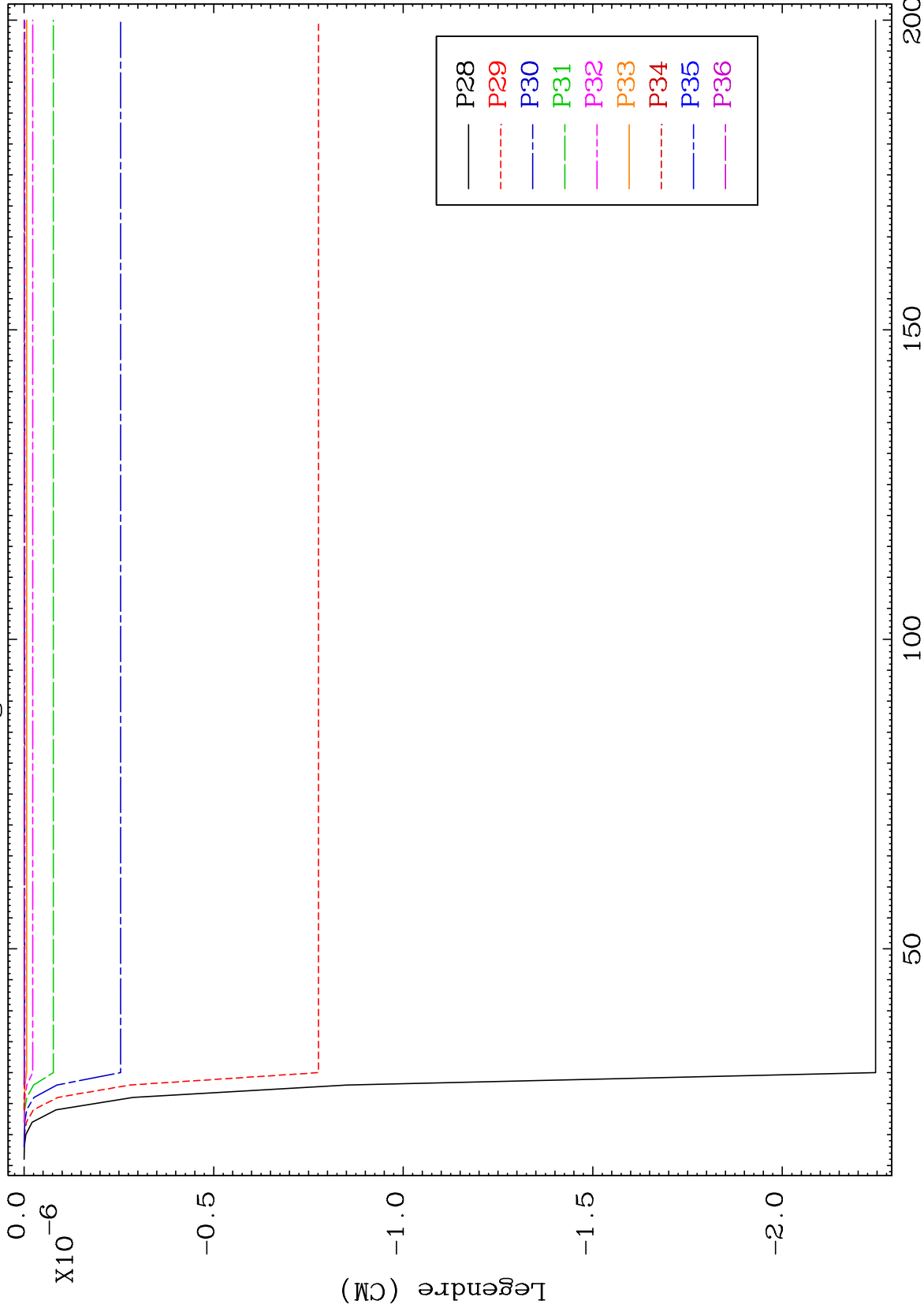
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



89

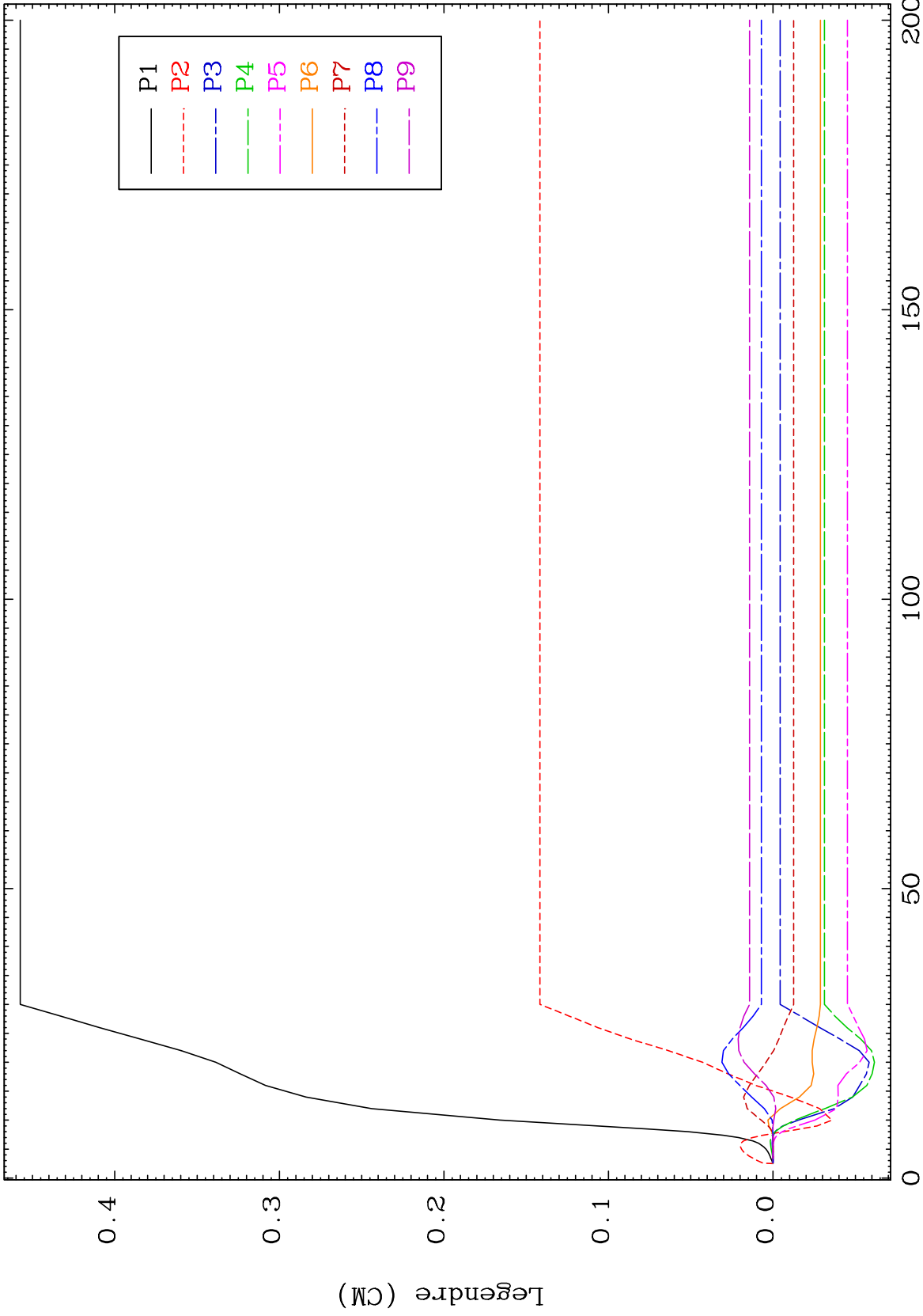
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



51-Sb-132

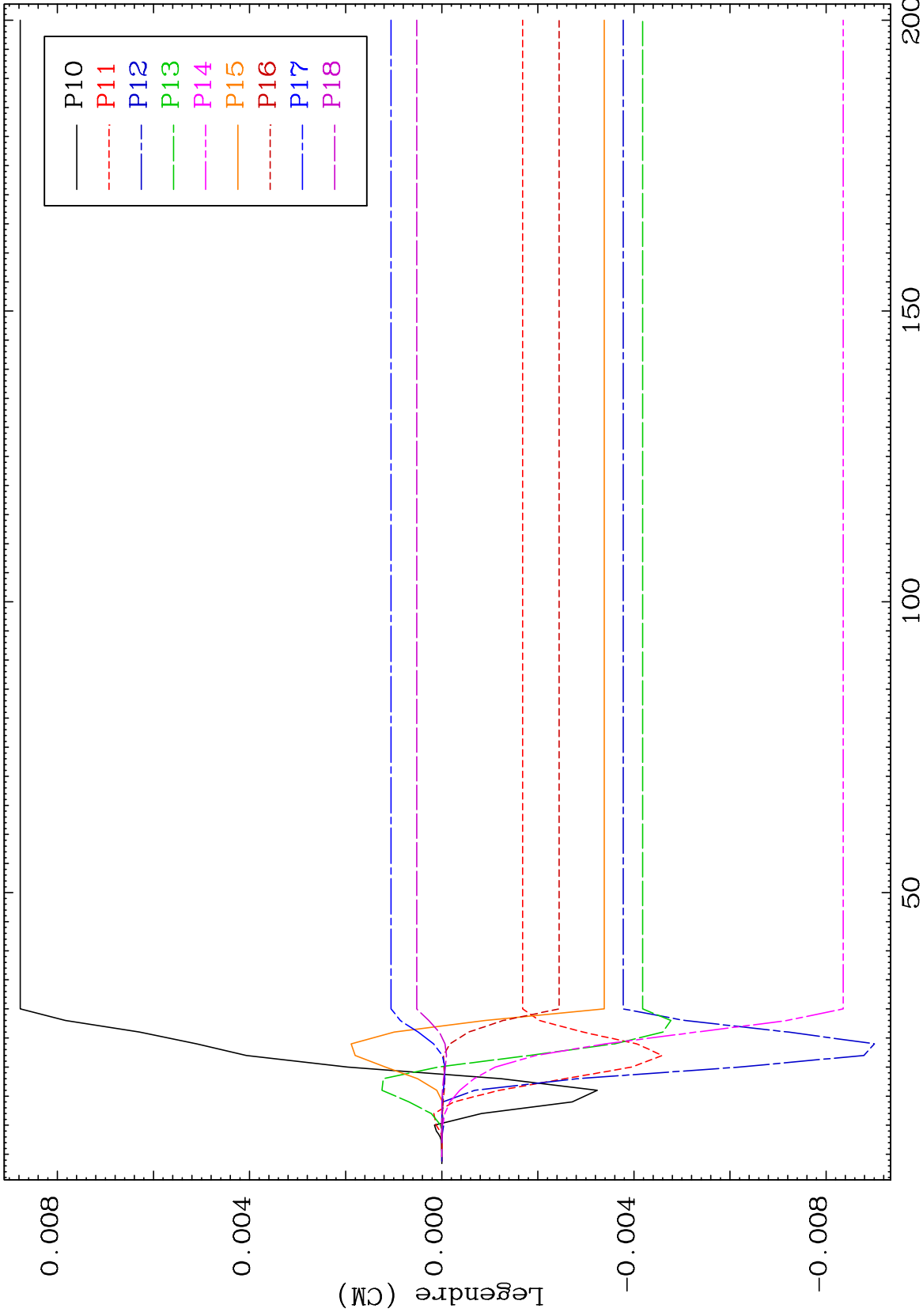
Incident Energy (MeV)

90

MAT 5158

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

51-Sb-132



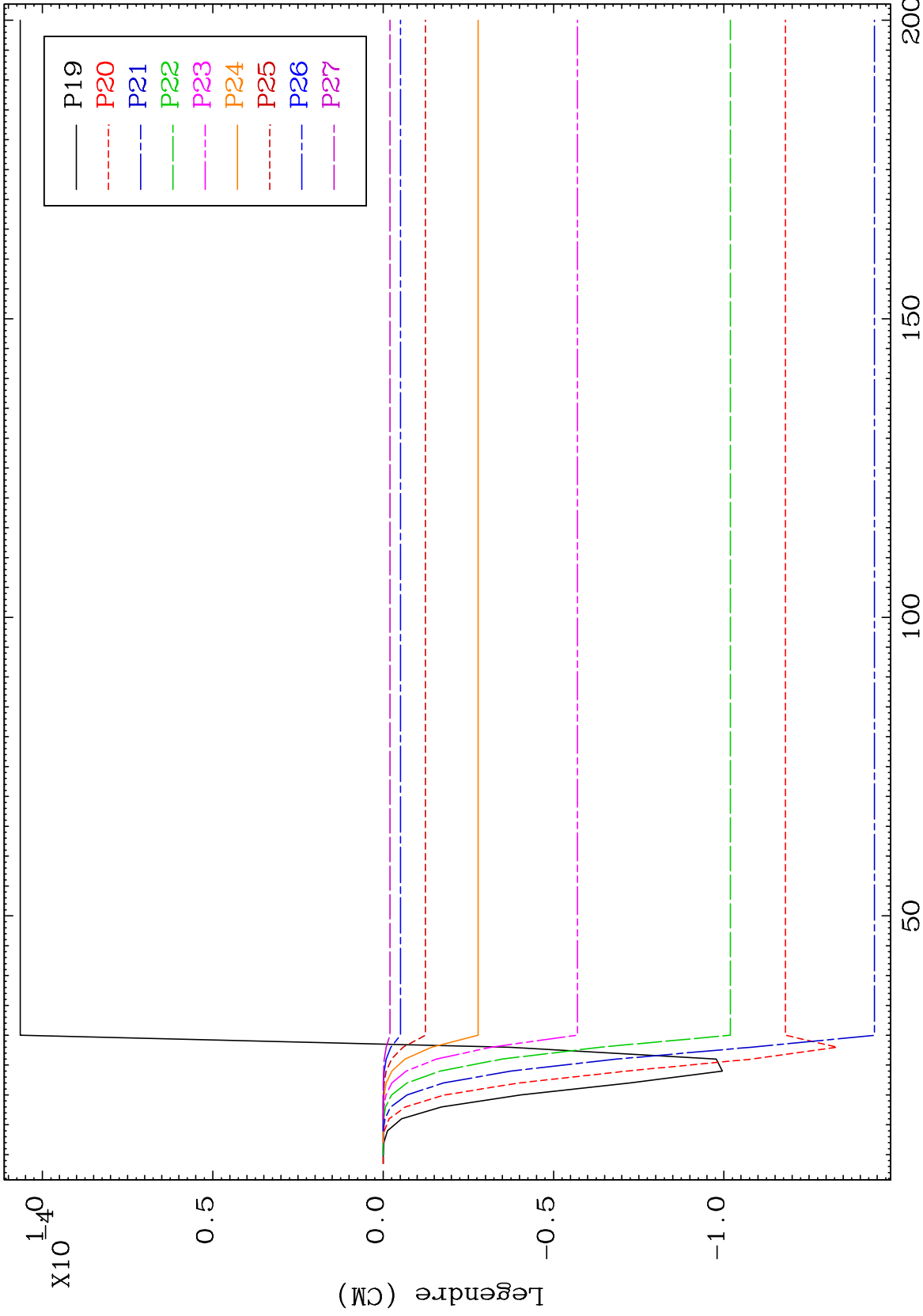
91

51-Sb-132

MAT 5158

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

51-Sb-132



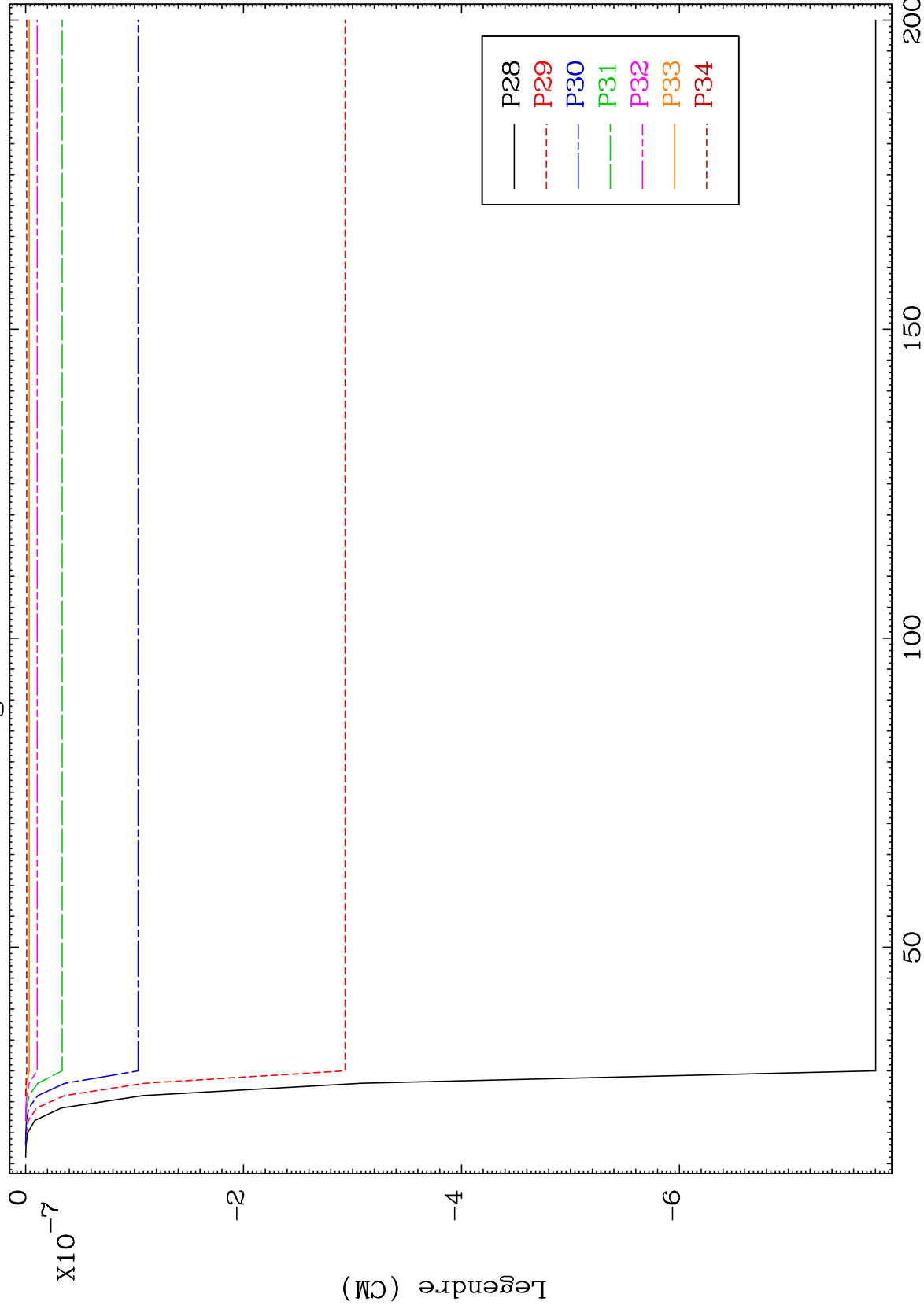
92

51-Sb-132

MAT 5158

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

51-Sb-132



93

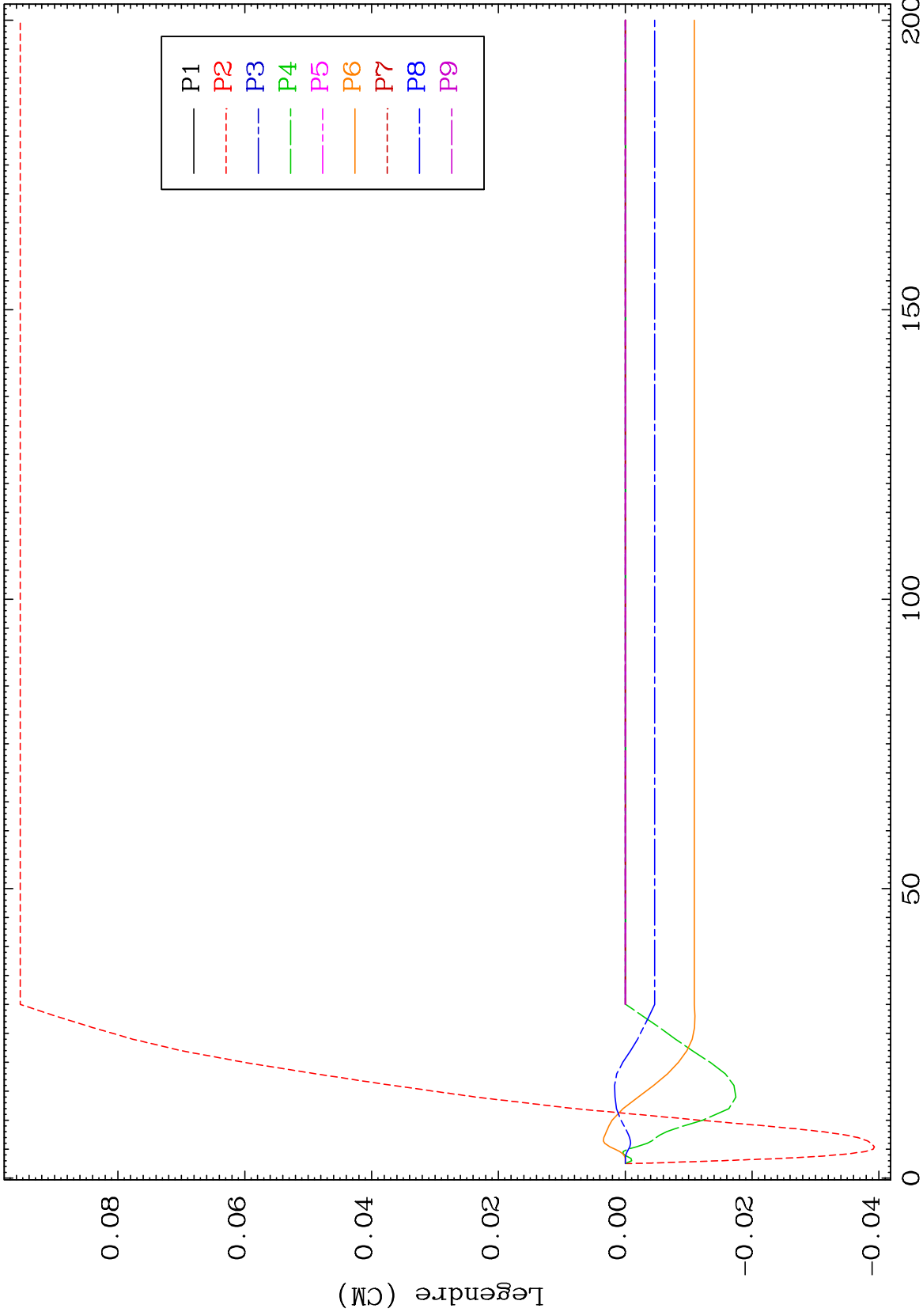
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



94

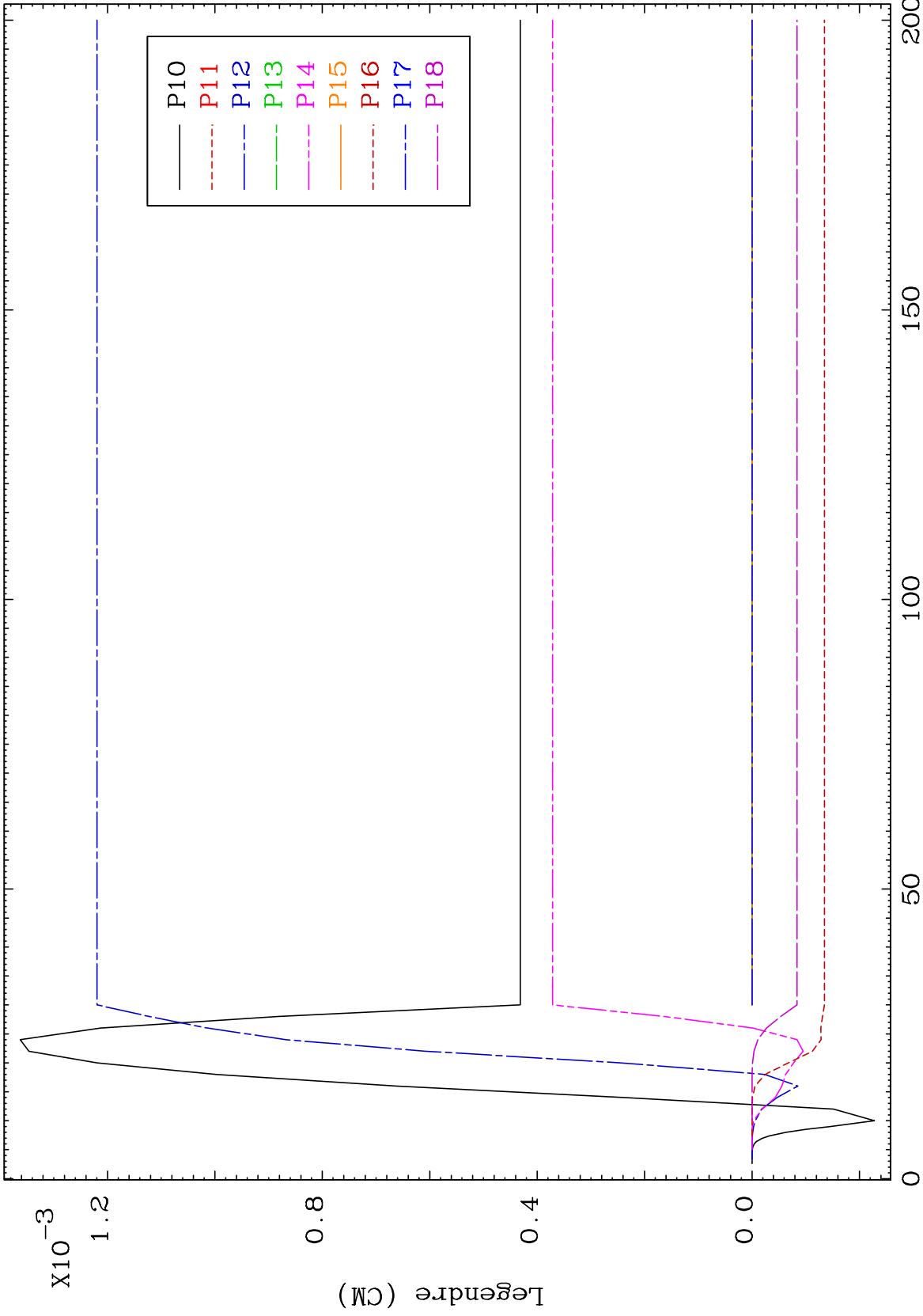
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



95

51-Sb-132

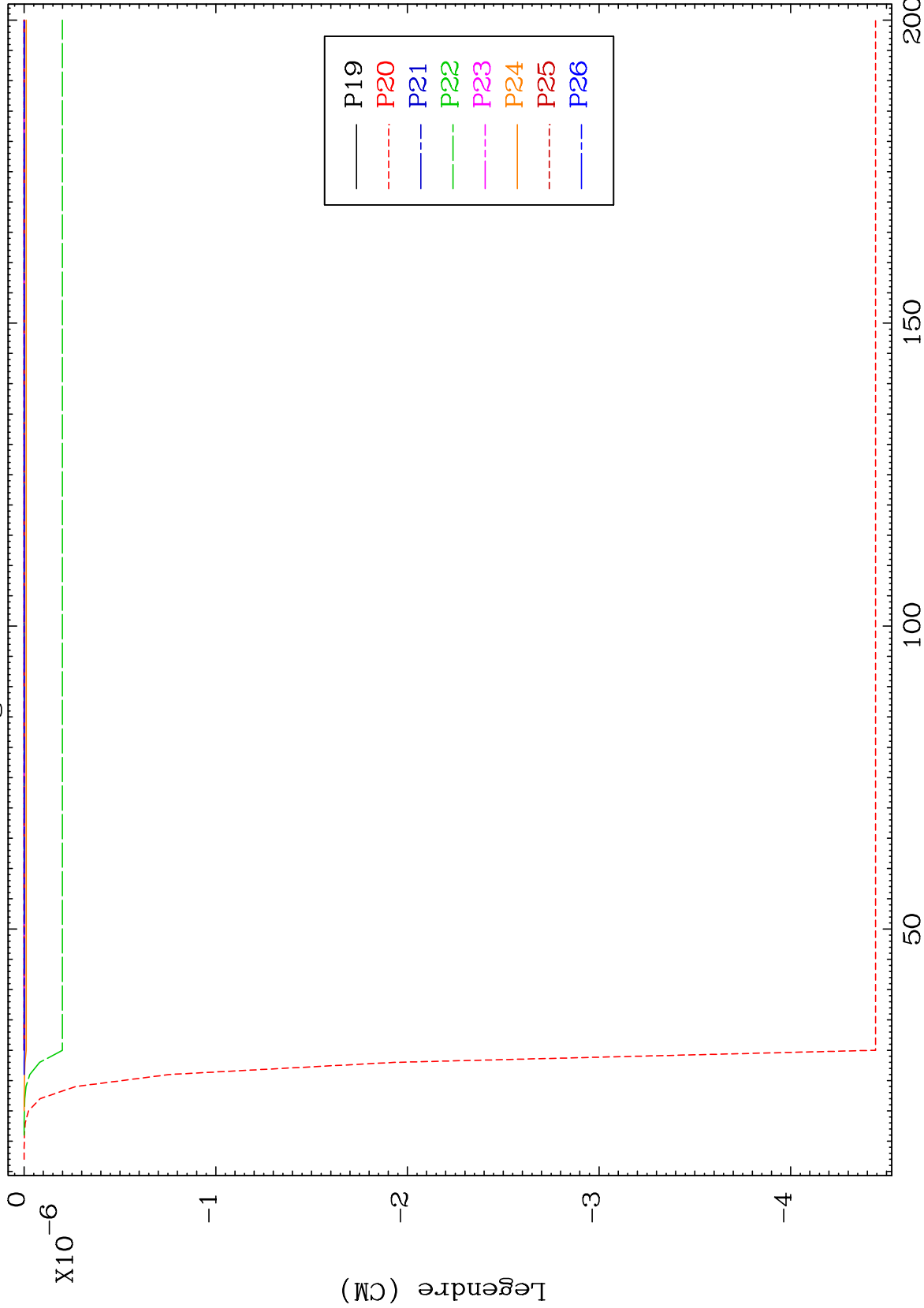
51-Sb-132



MAT 5158

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

51-Sb-132



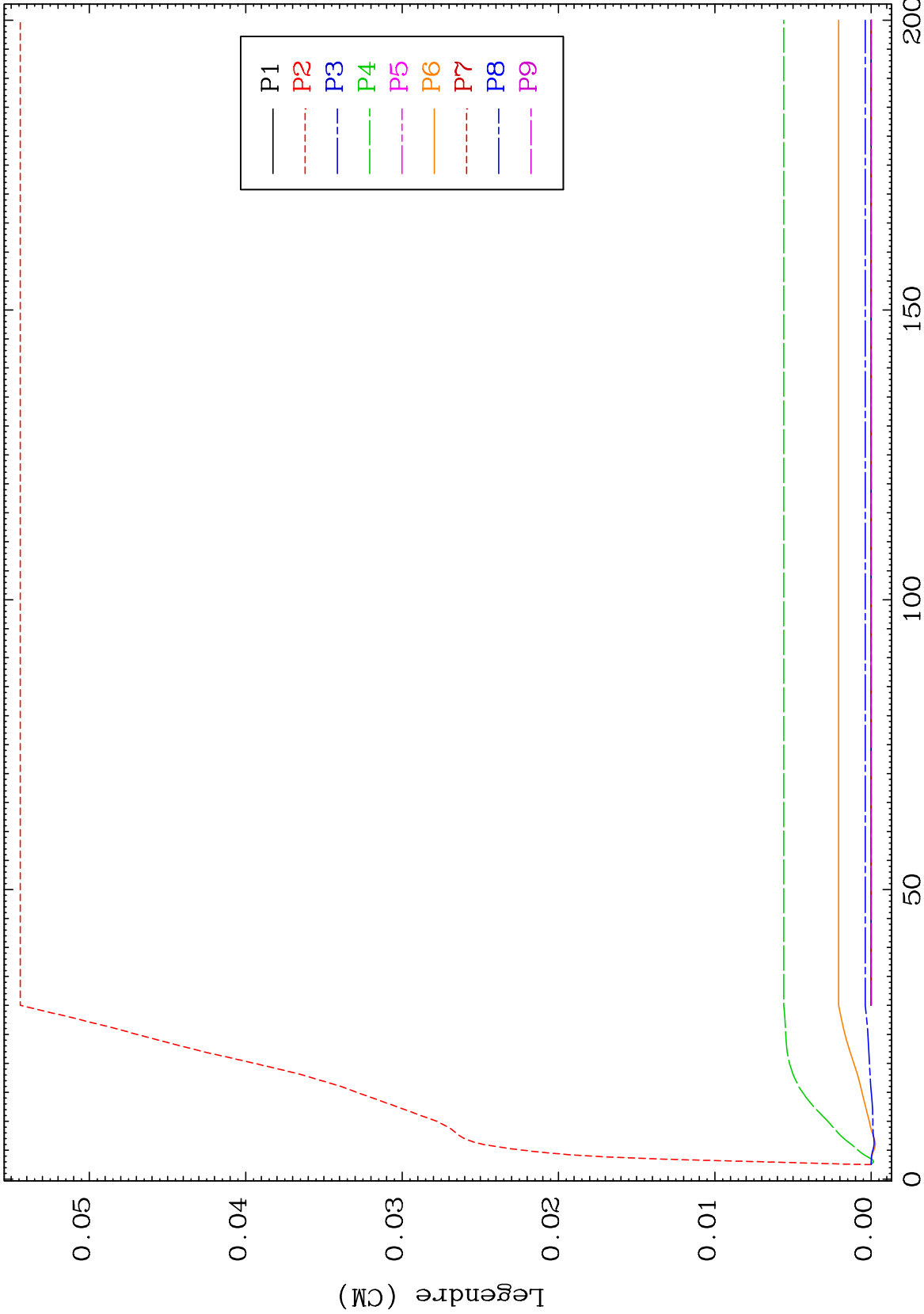
96

51-Sb-132

MAT 5158

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

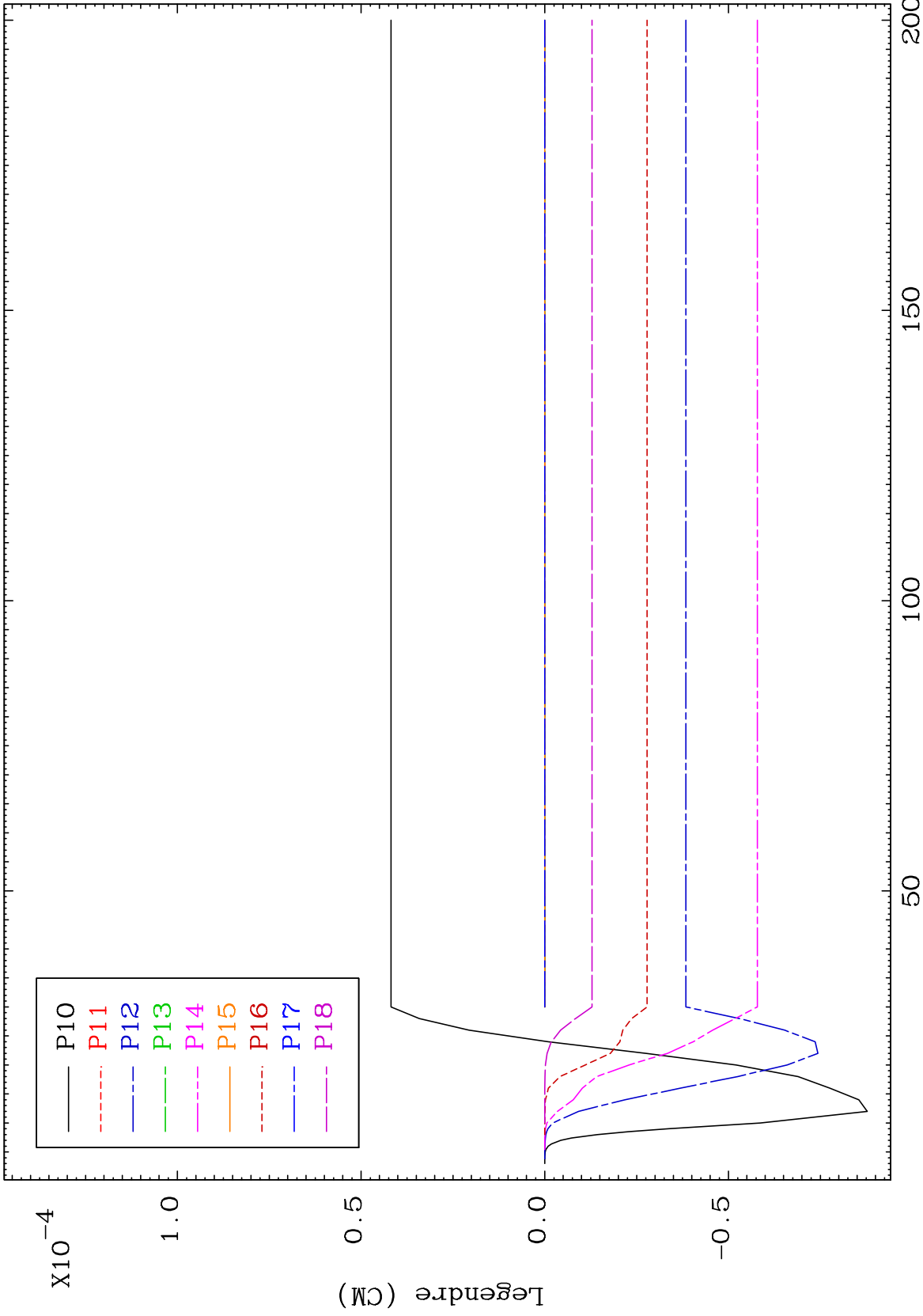
51-Sb-132



97

Incident Energy (MeV)

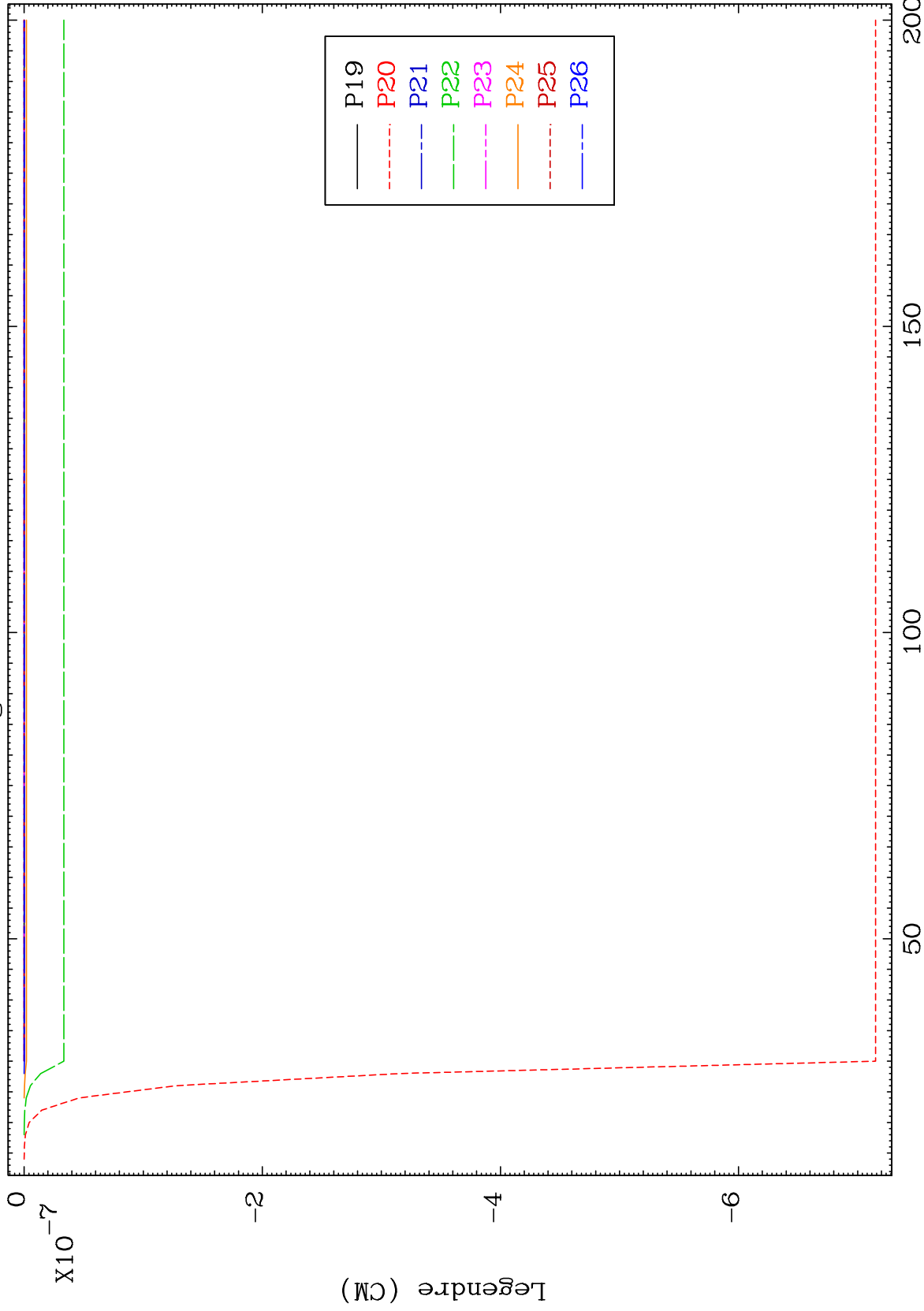
51-Sb-132



MAT 5158

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

51-Sb-132



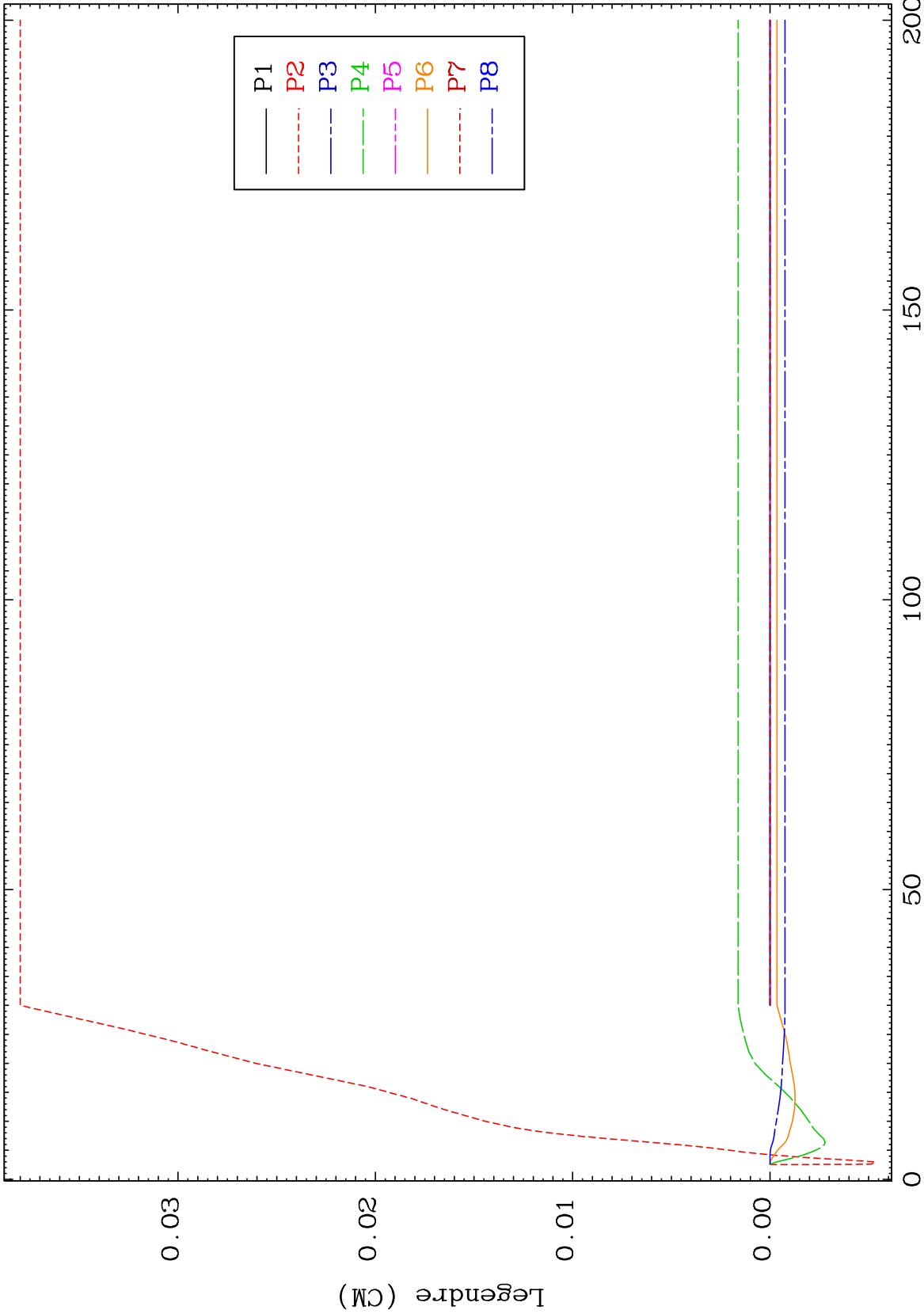
99

51-Sb-132

MAT 5158

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

51-Sb-132



51-Sb-132

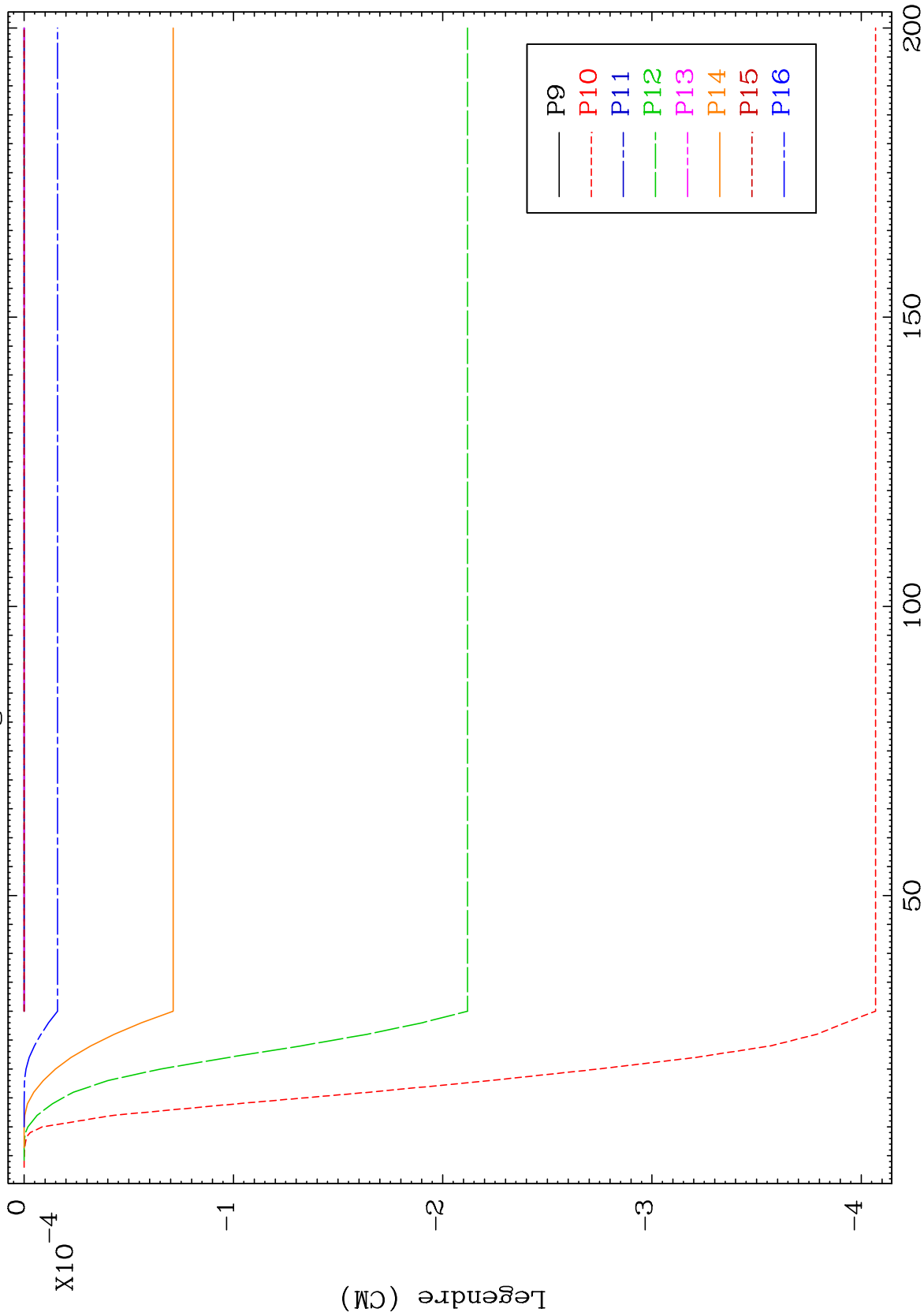
Incident Energy (MeV)

Legendre (CM)

MAT 5158

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

51-Sb-132



101

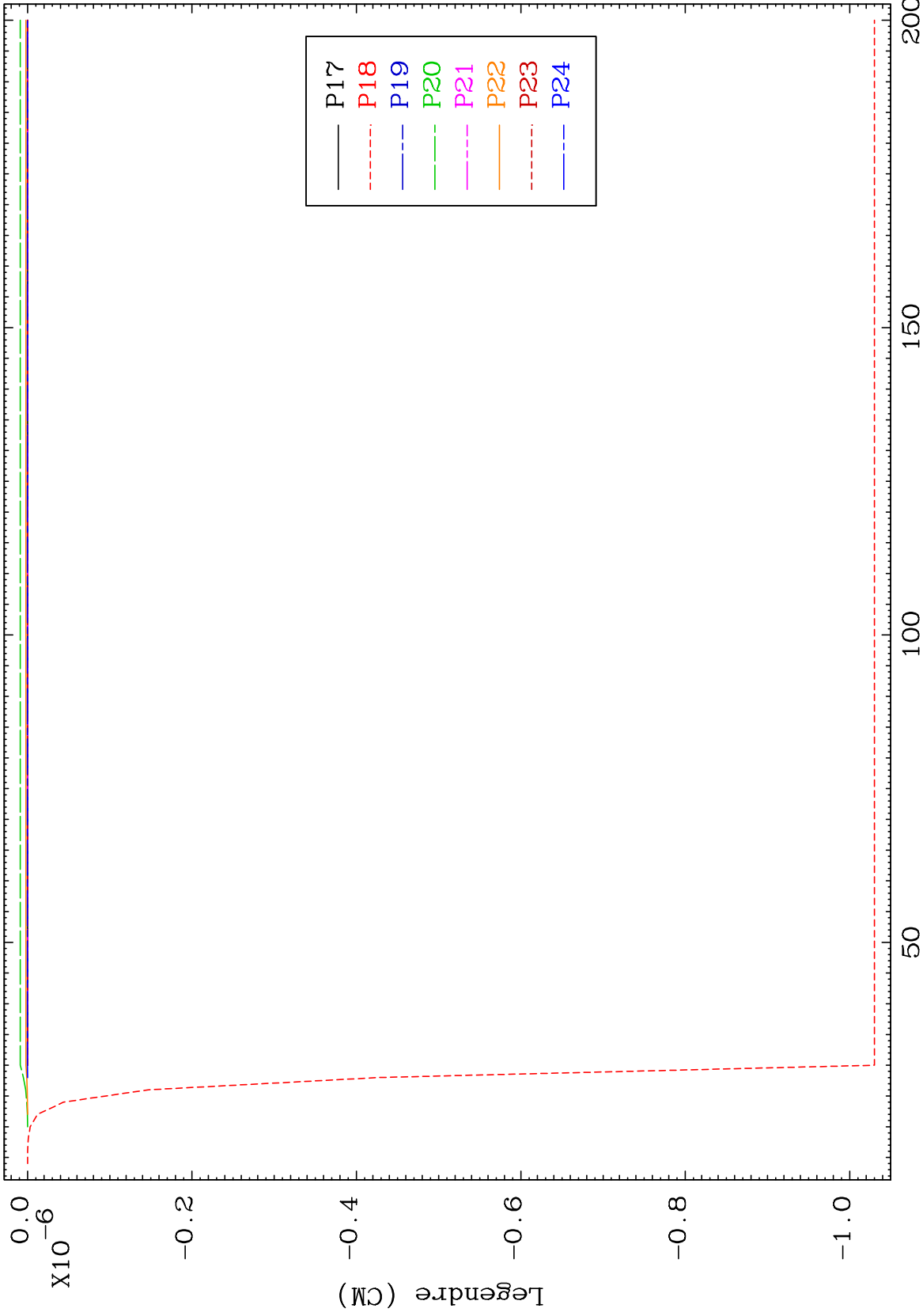
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



102

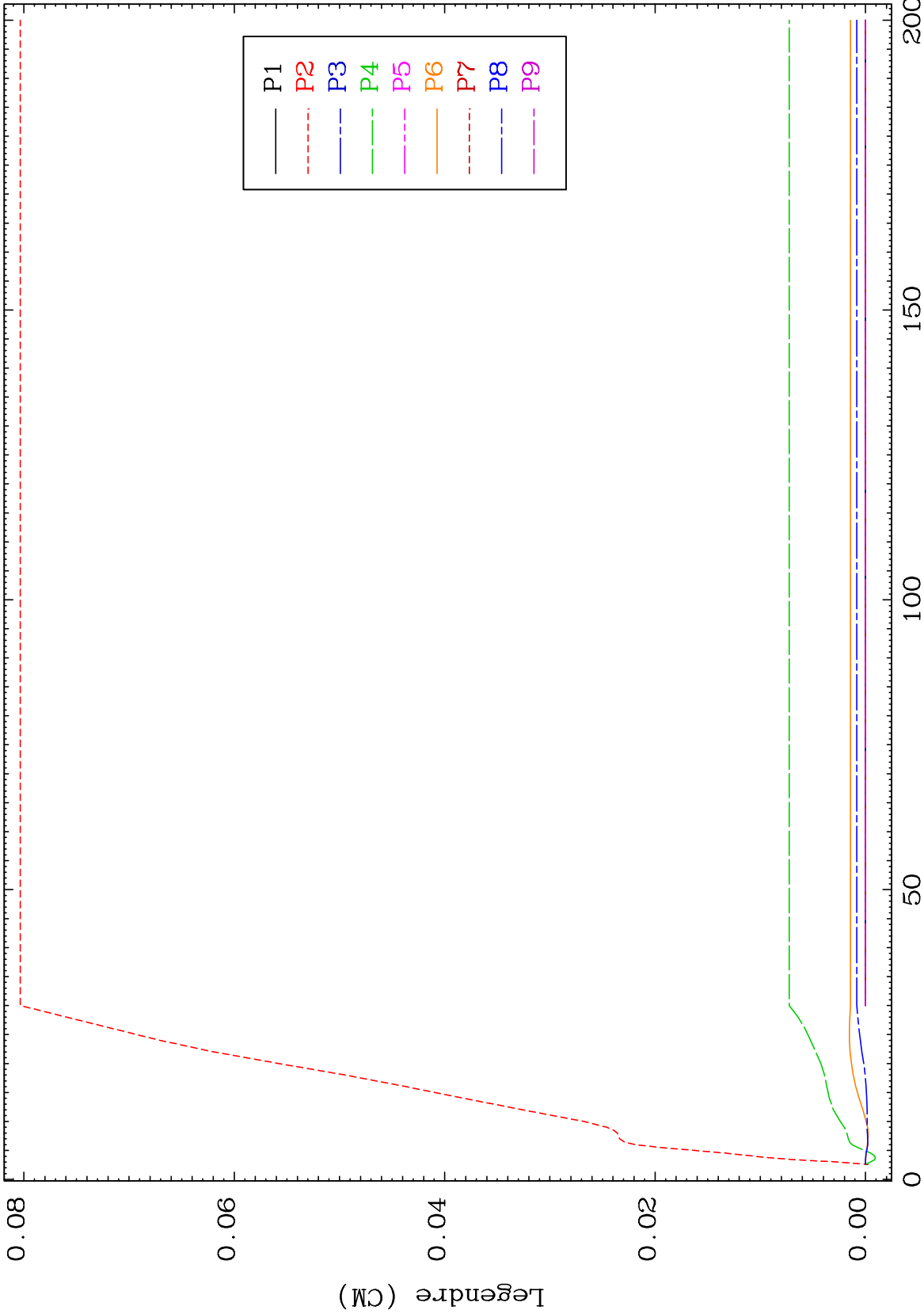
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132

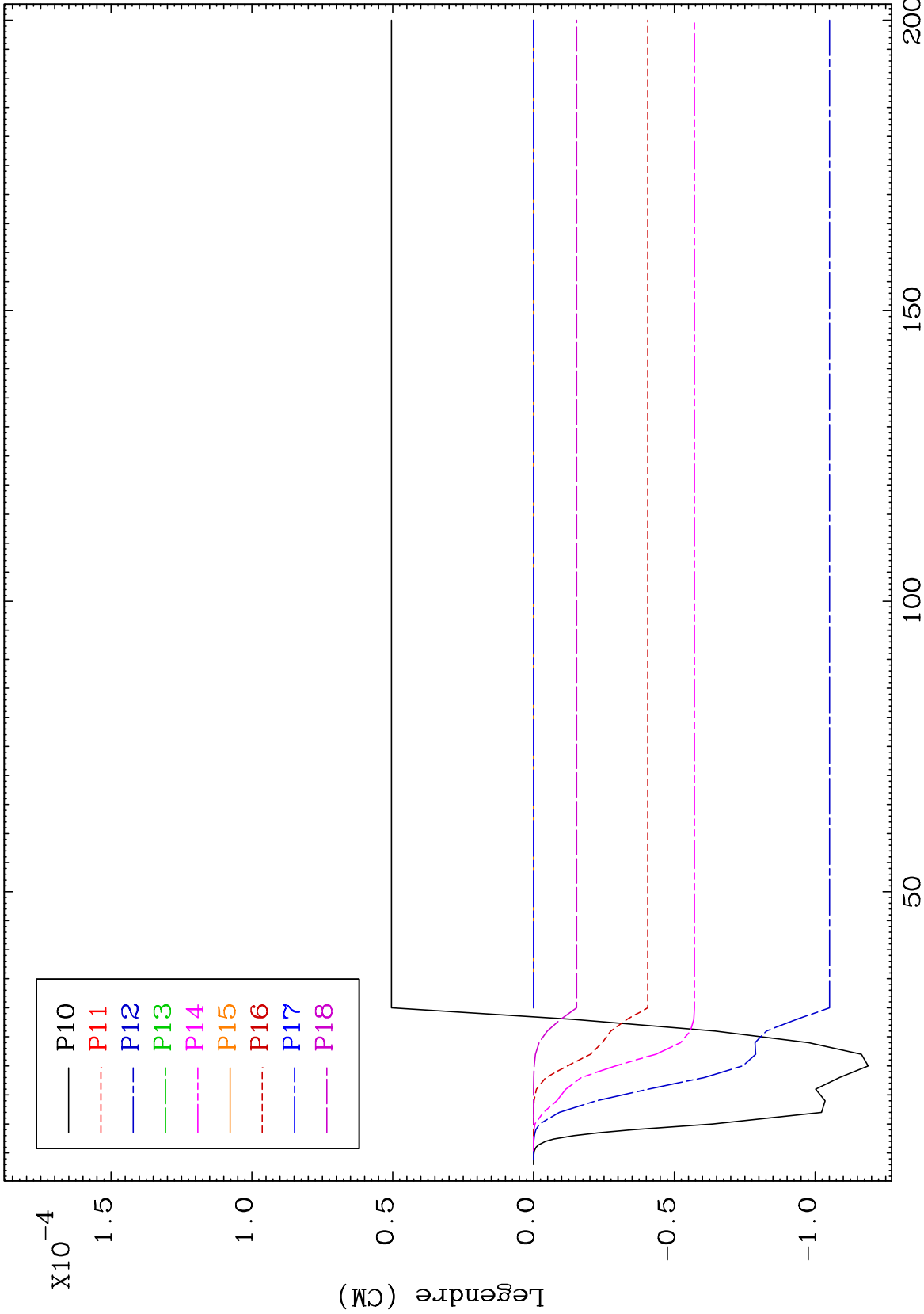


51-Sb-132

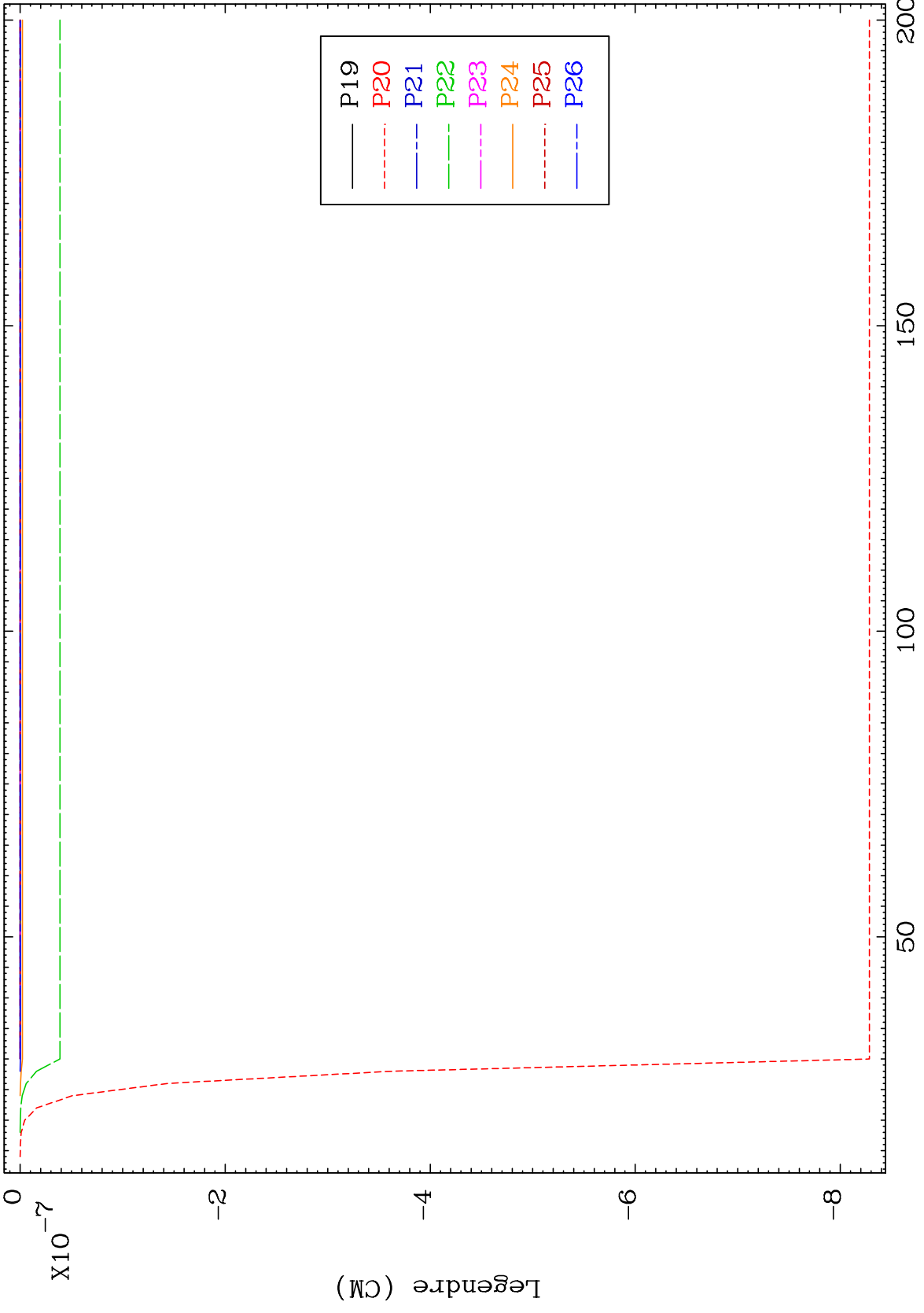
Incident Energy (MeV)

Legendre (CM)





MAT 5158 MT= 76 (n,n') Level Legendre Coefficients 51-Sb-132

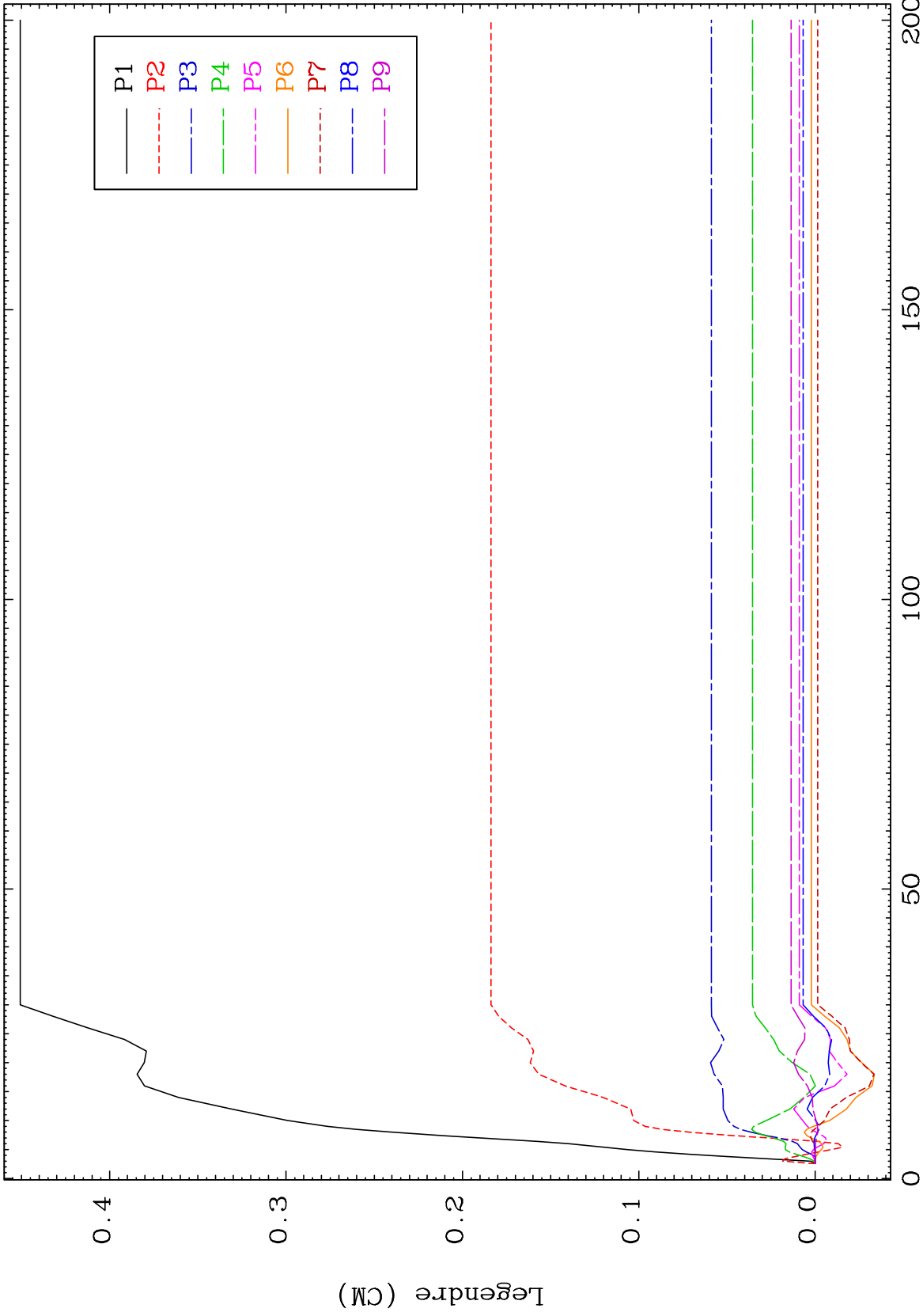


105 Incident Energy (MeV) 51-Sb-132

MAT 5158

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

51-Sb-132



106

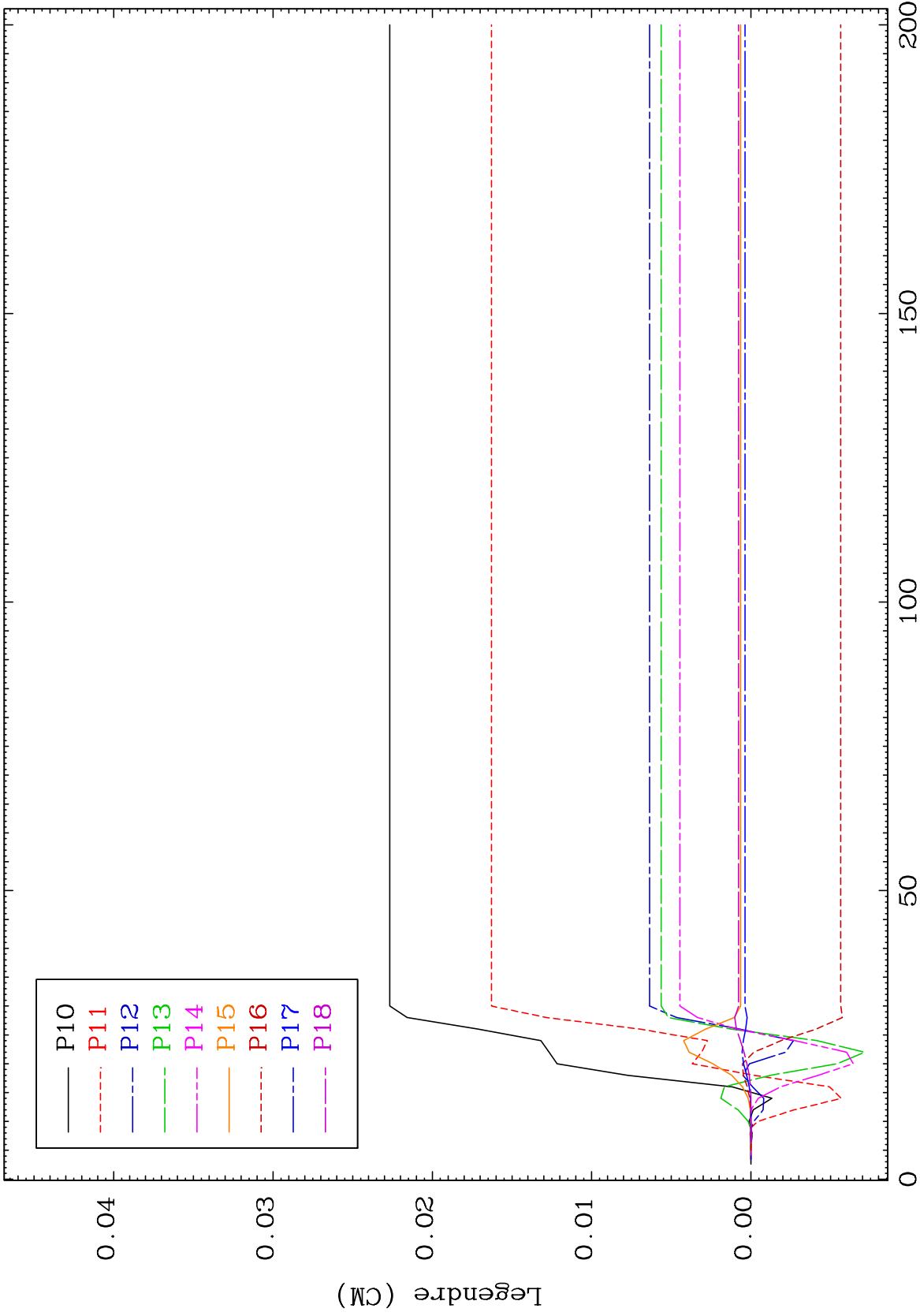
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

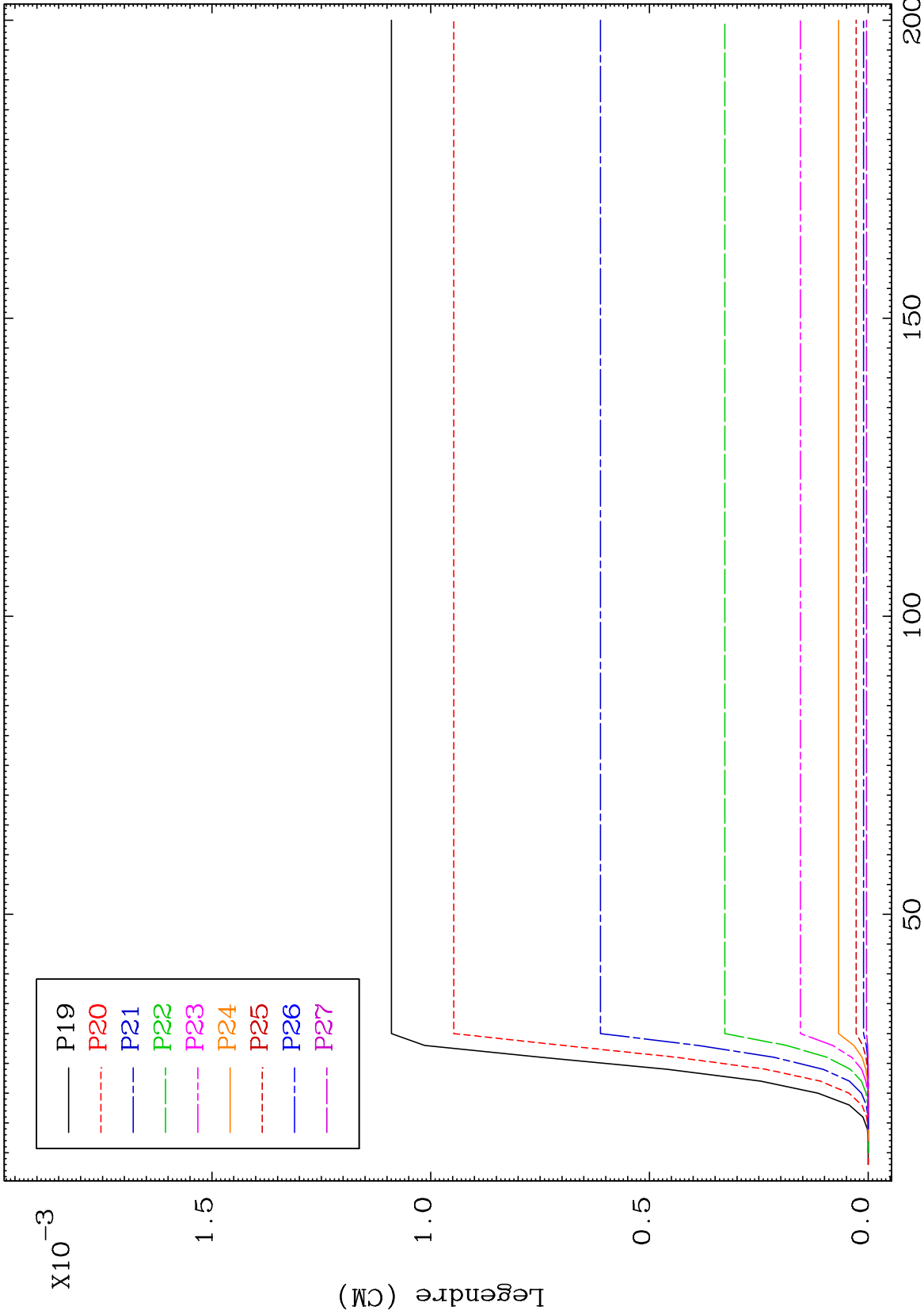
51-Sb-132



107

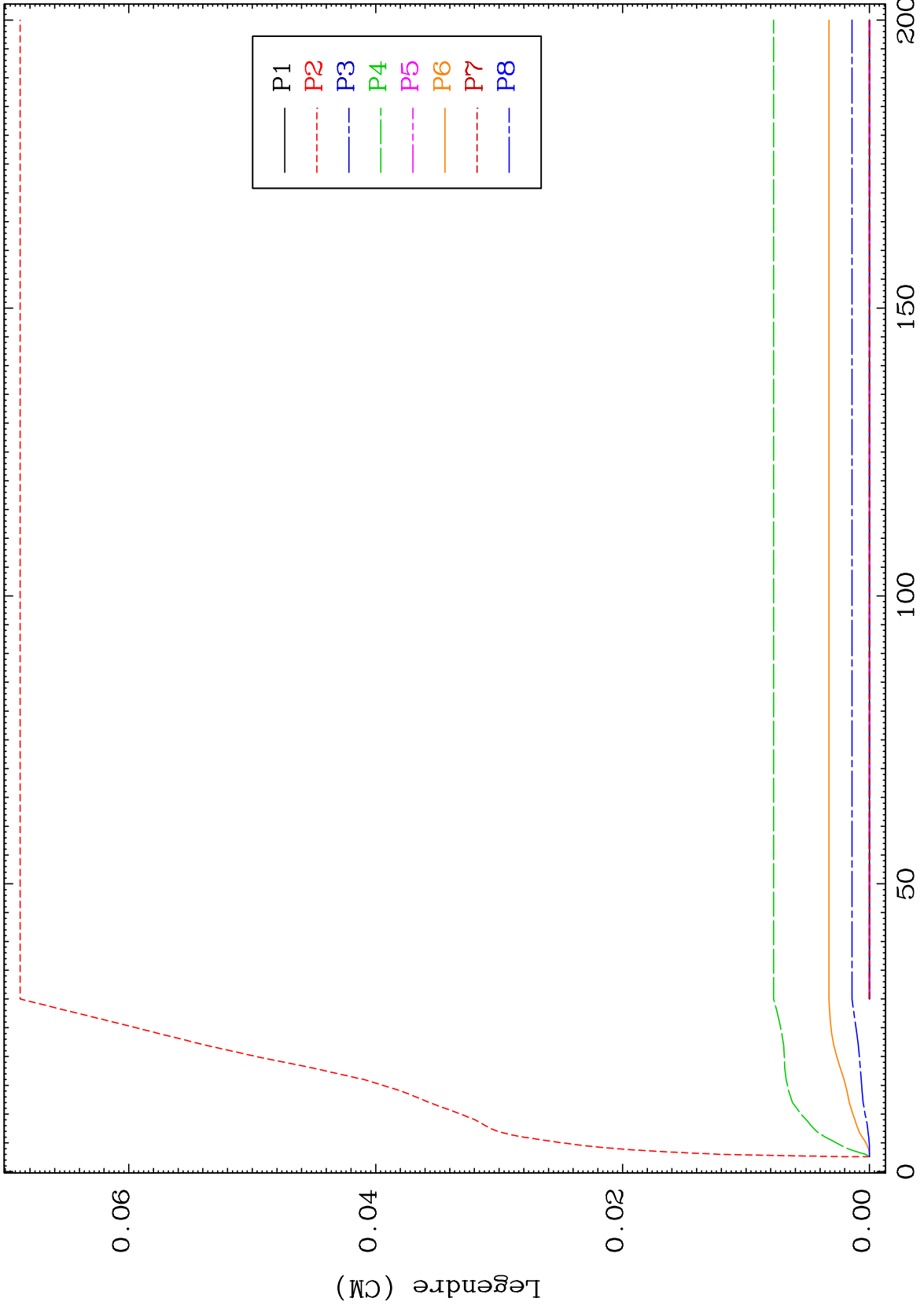
Incident Energy (MeV)

51-Sb-132



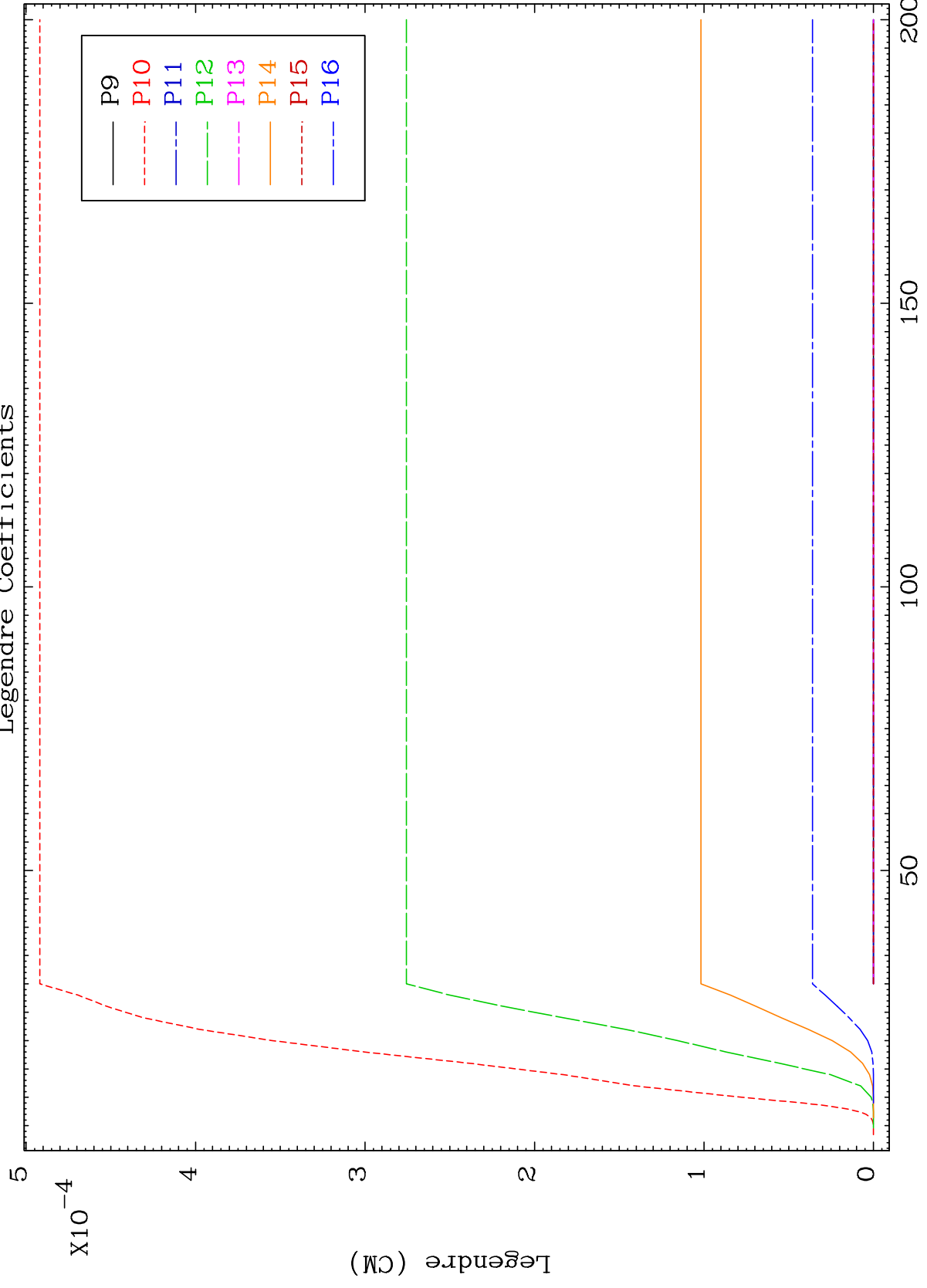


MAT 5158 MT= 78 (n,n') Level Legendre Coefficients 51-Sb-132



51-Sb-132

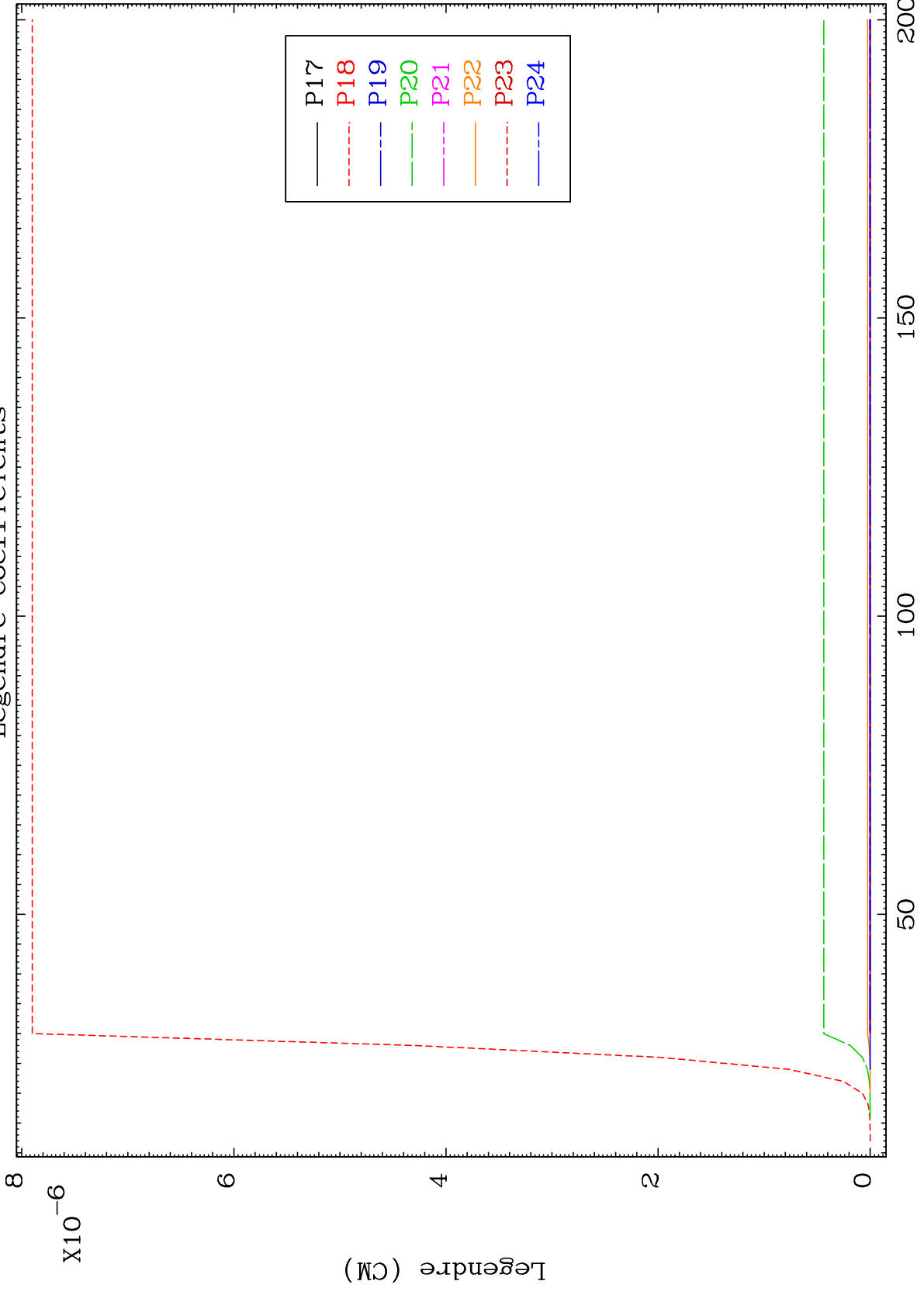
MAT 5158 MT= 78 (n,n') Level Legendre Coefficients 51-Sb-132



111 Incident Energy (MeV) 51-Sb-132



MAT 5158 MT= 78 (n,n') Level Legendre Coefficients 51-Sb-132

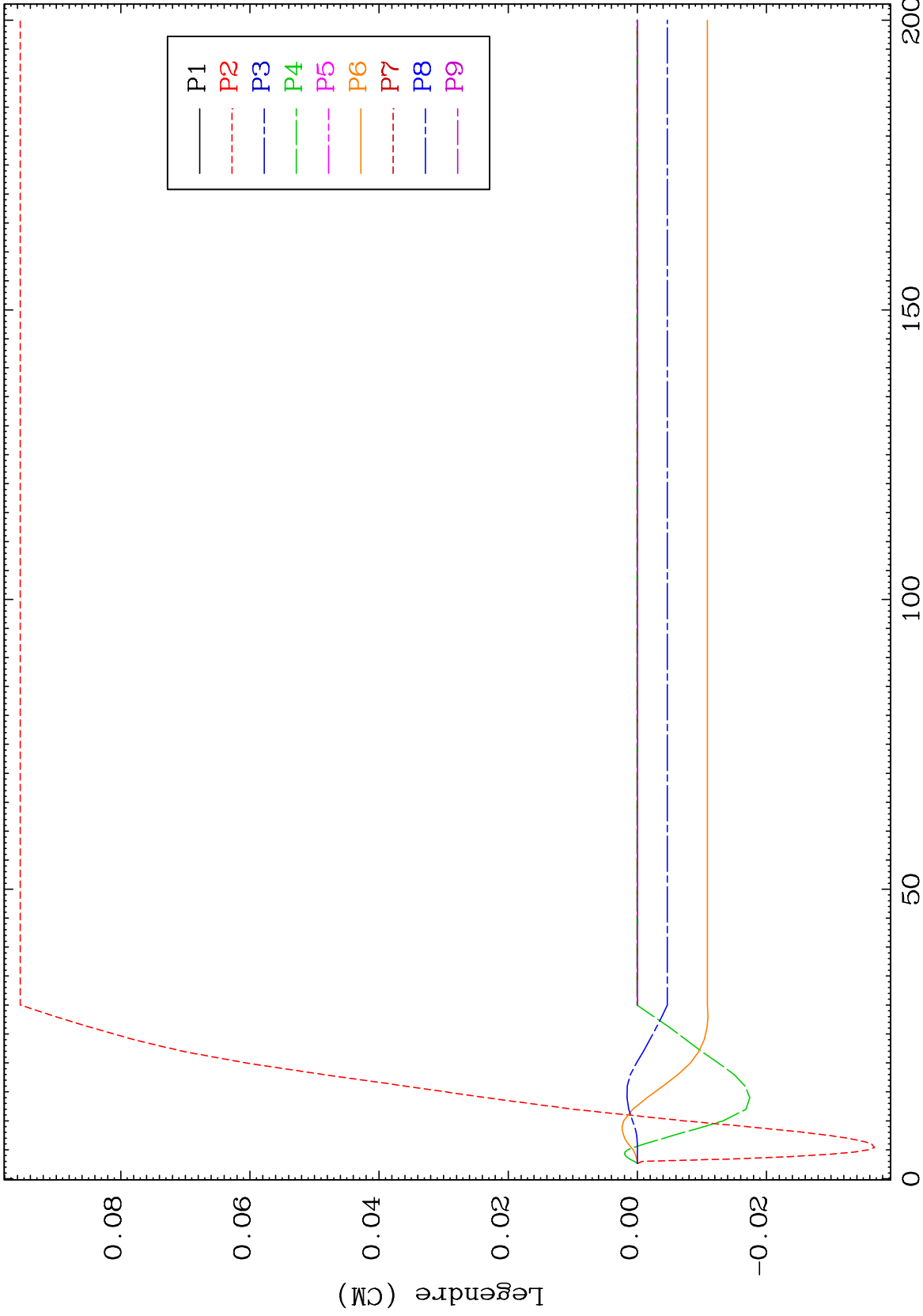


112 50 100 150 200 51-Sb-132

MAT 5158

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

51-Sb-132



113

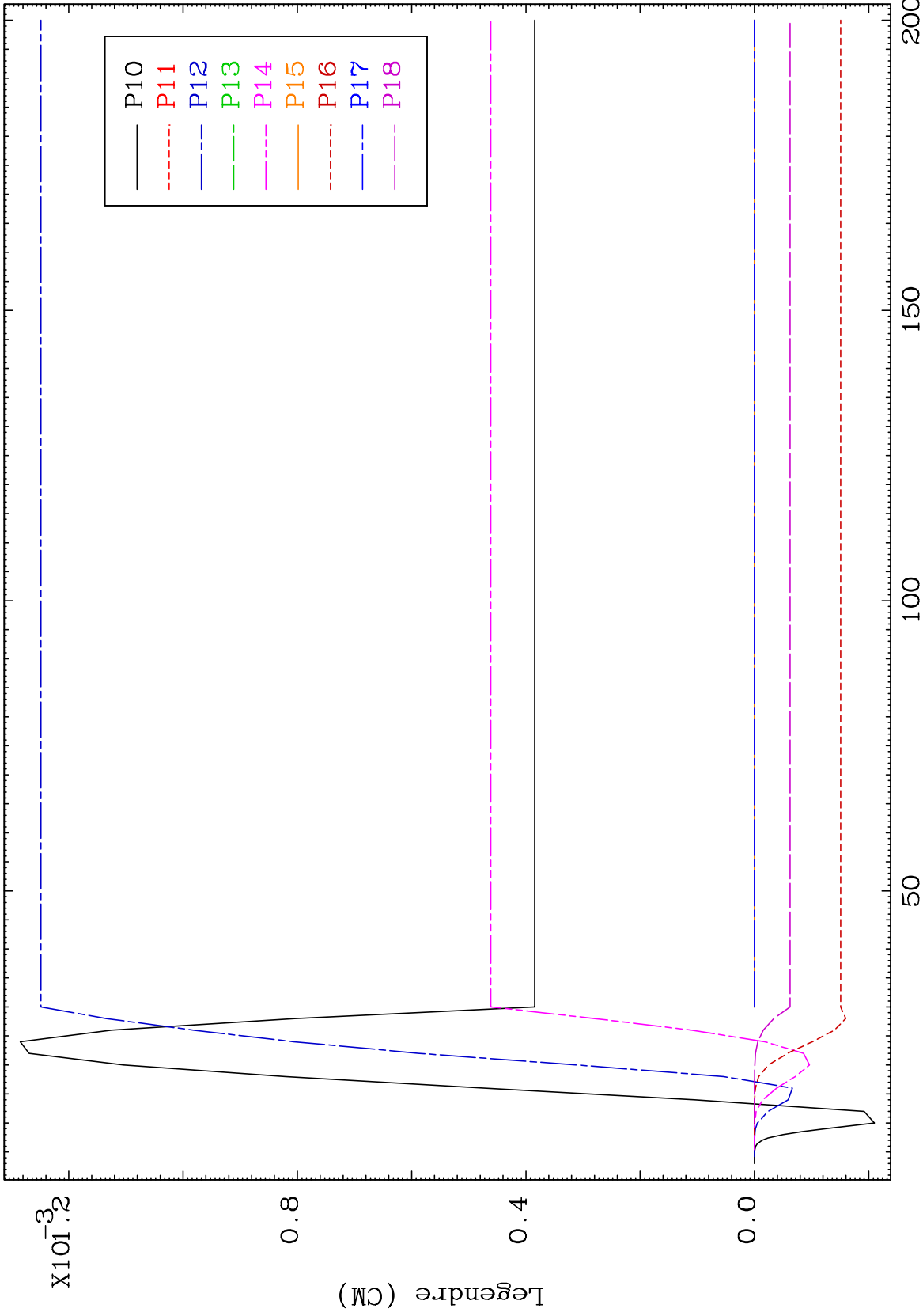
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



114

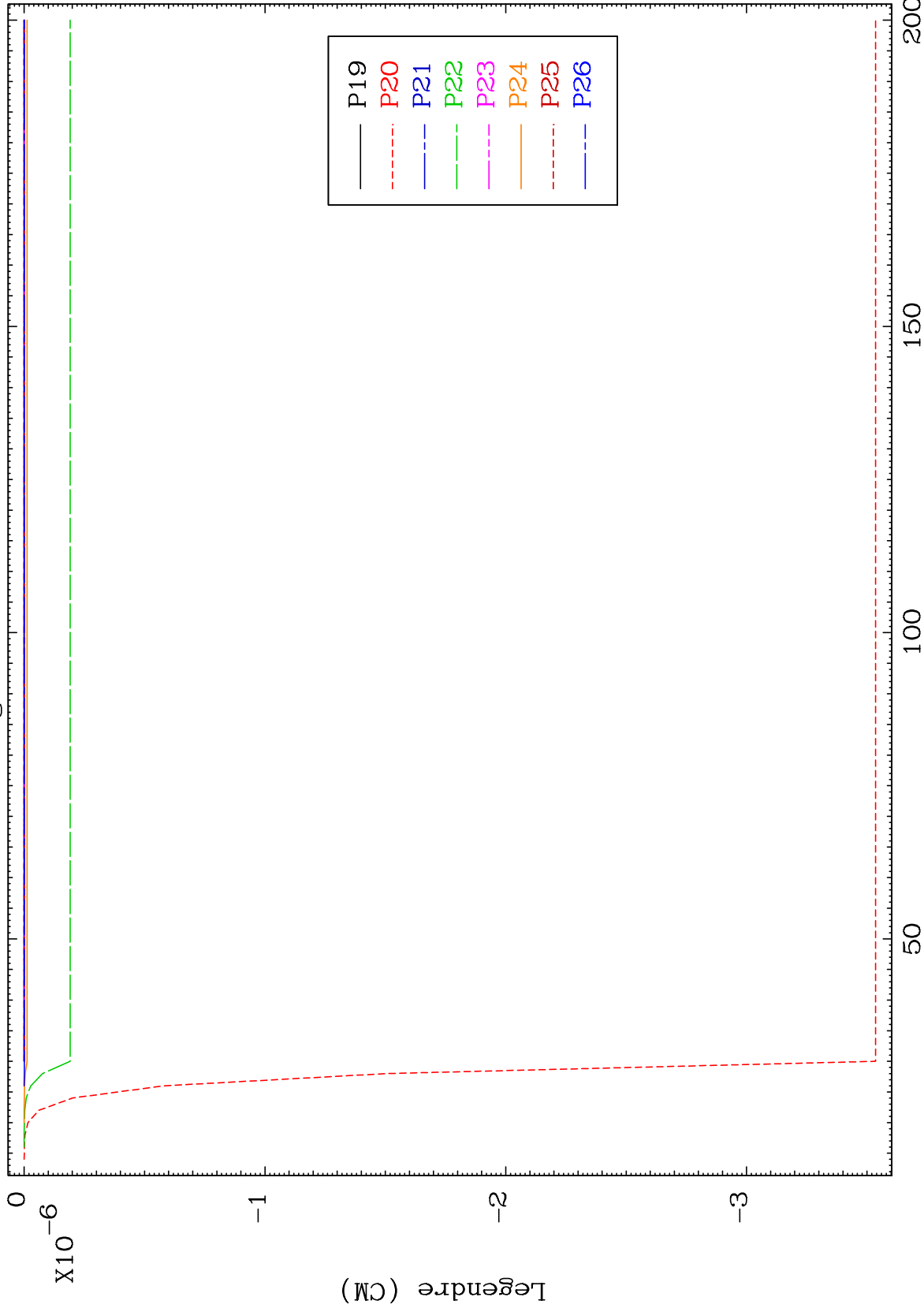
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



115

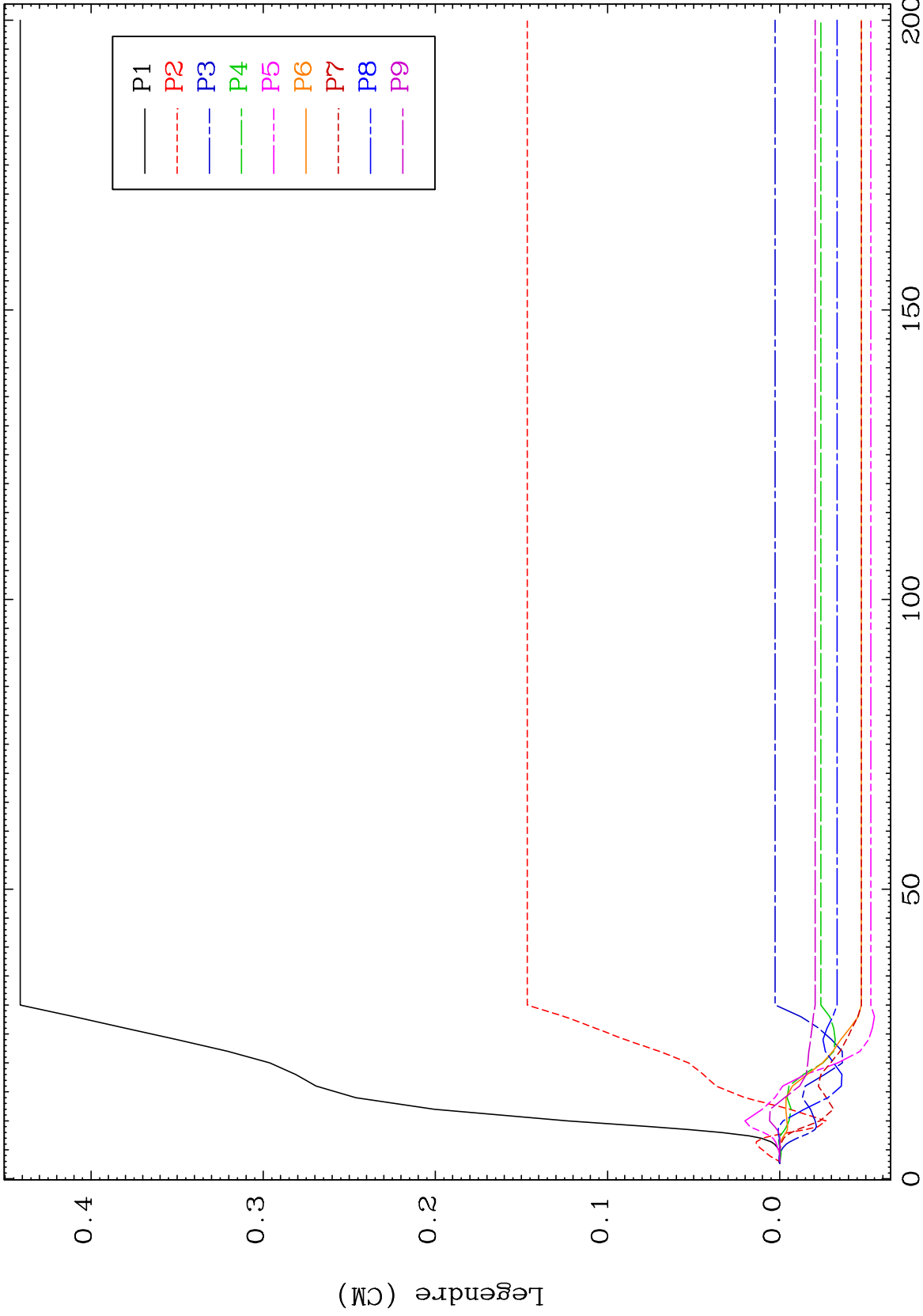
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



116

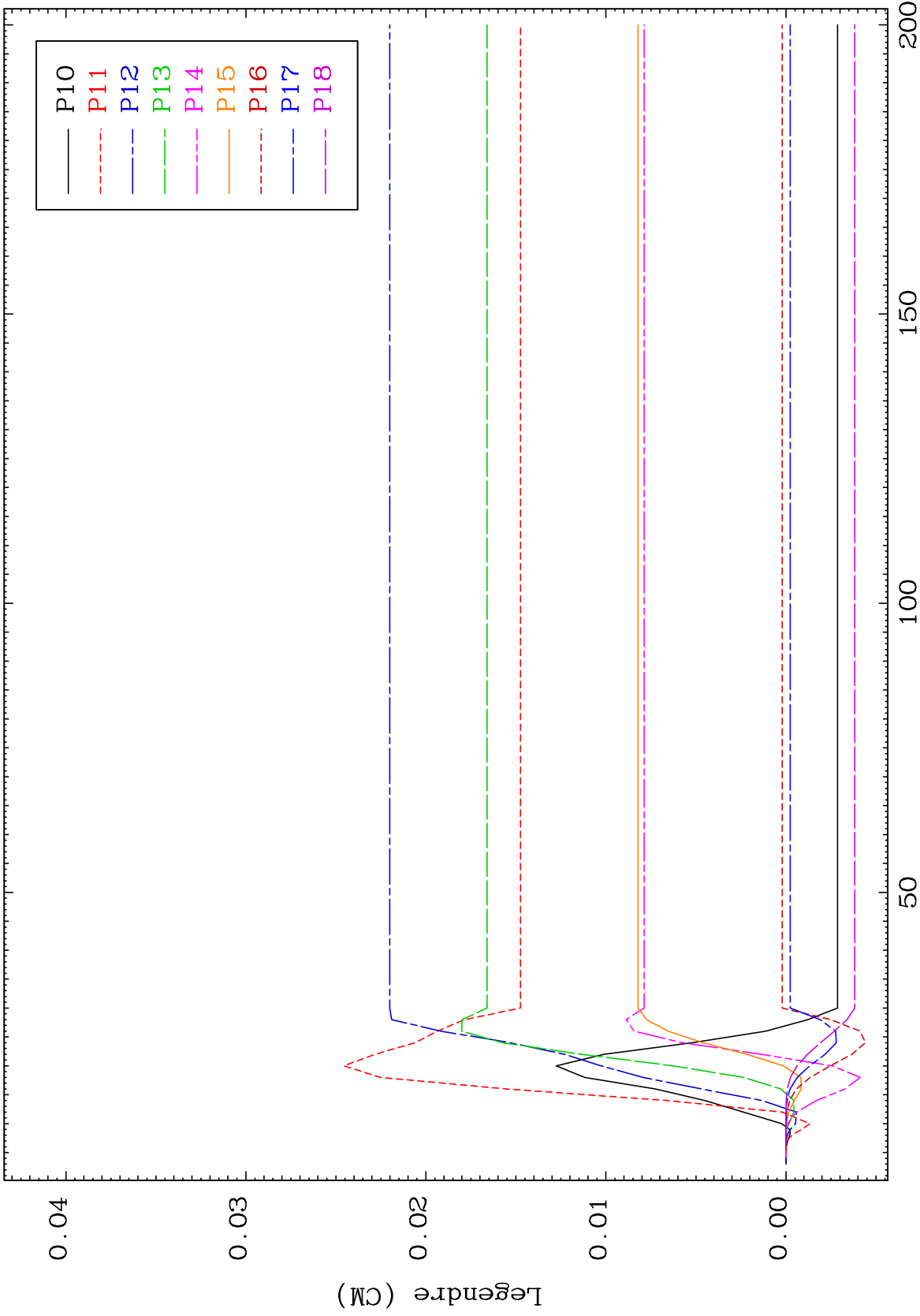
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



117

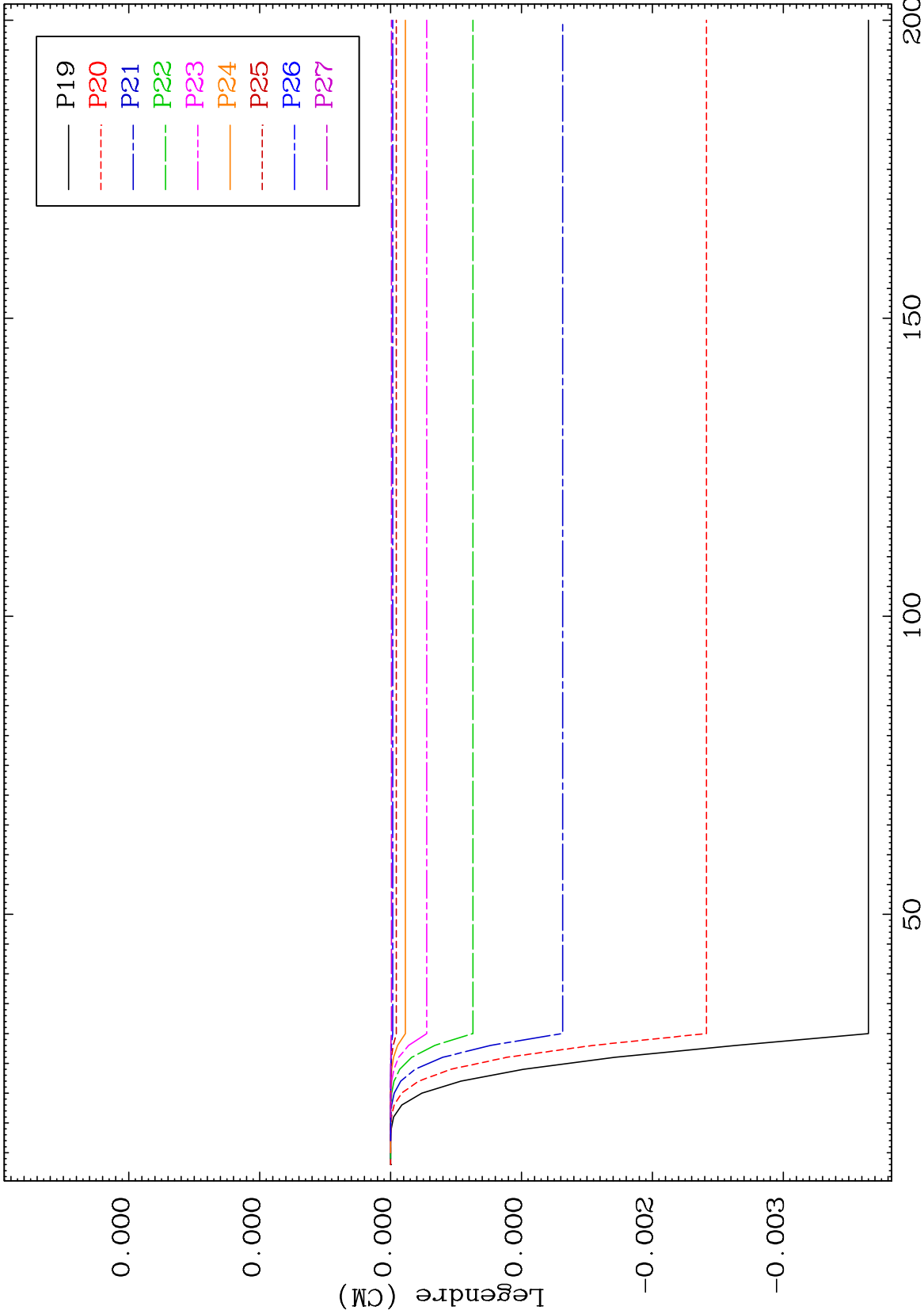
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



118

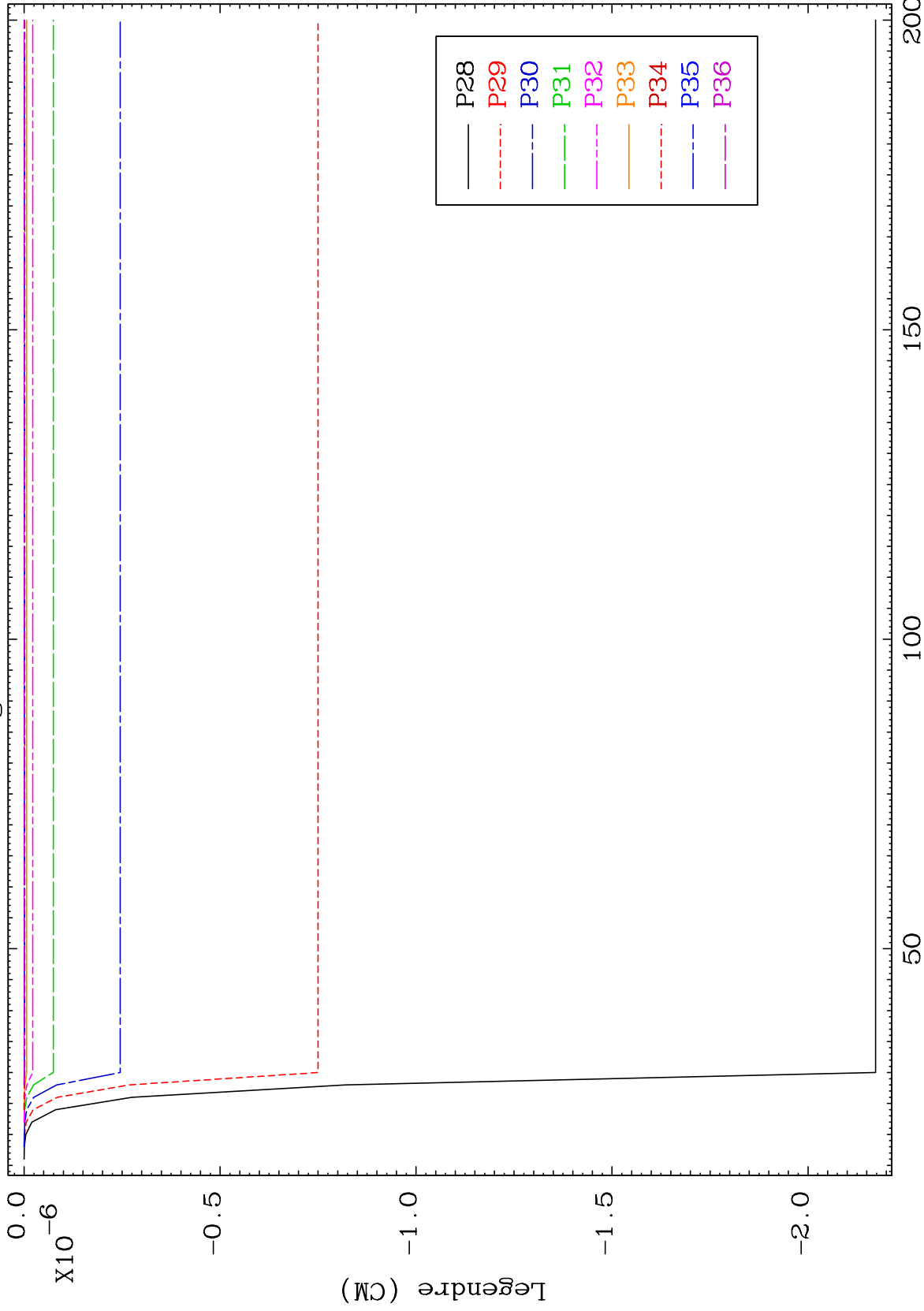
Incident Energy (MeV)

51-Sb-132

MAT 5158

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

51-Sb-132



119

Incident Energy (MeV)

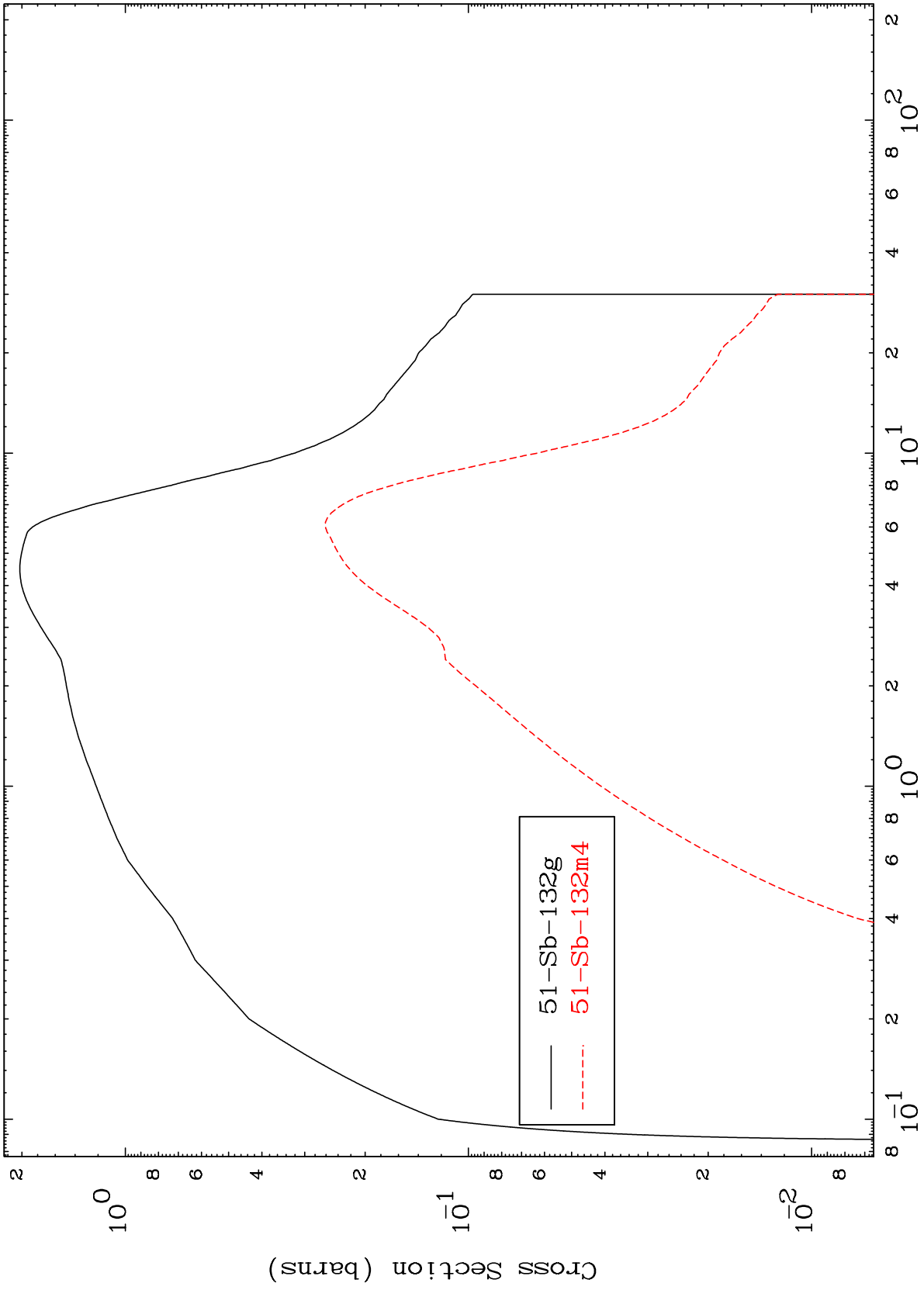
51-Sb-132



MAT 5158

# Inelastic Radionuclide Production Cross Section

51-Sb-132



— 51-Sb-132g  
- - - 51-Sb-132m4

120

Incident Energy (MeV)

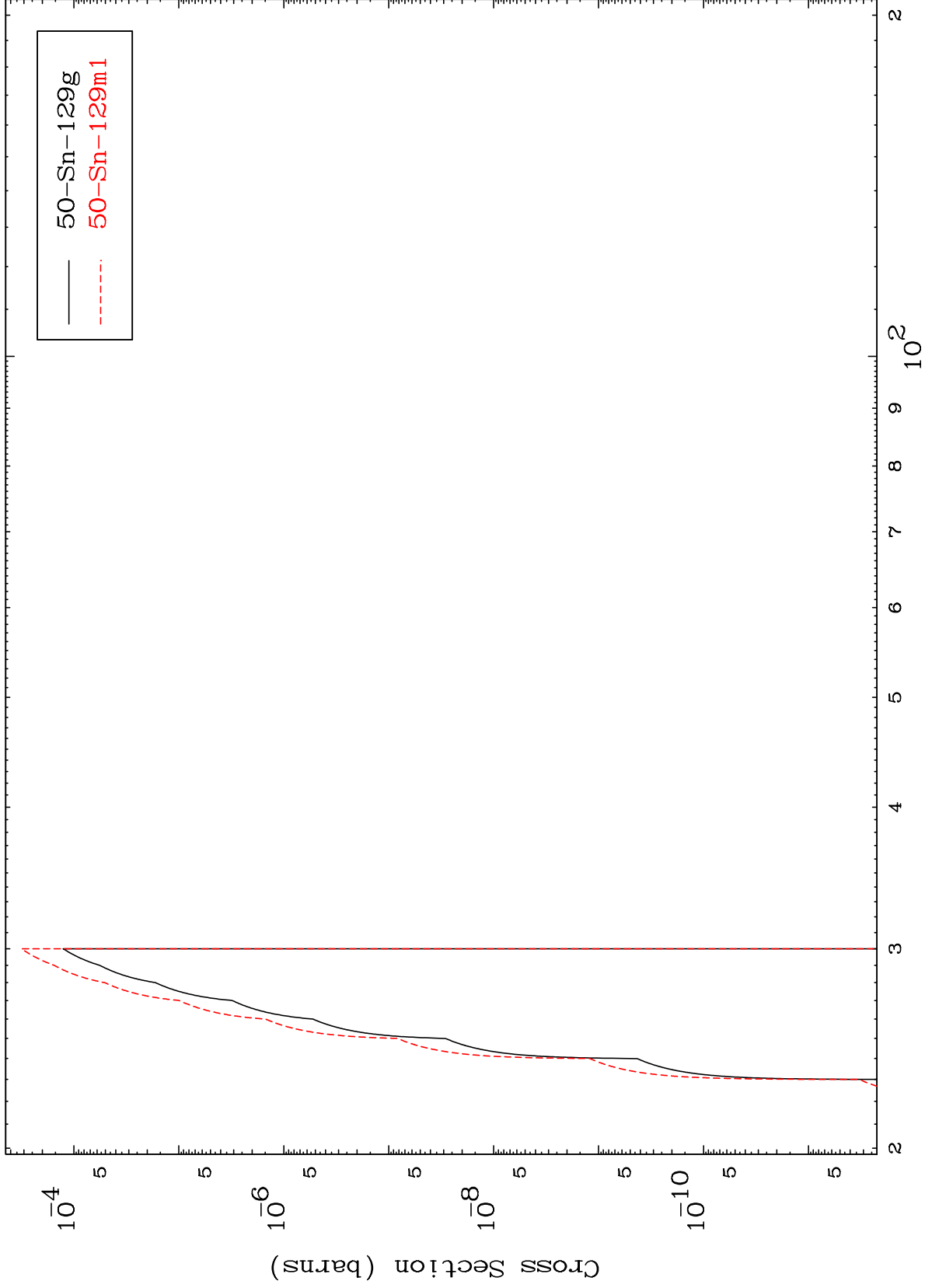
51-Sb-132

MAT 5158

(n,2n) d

51-Sb-132

Radionuclide Production Cross Section



121

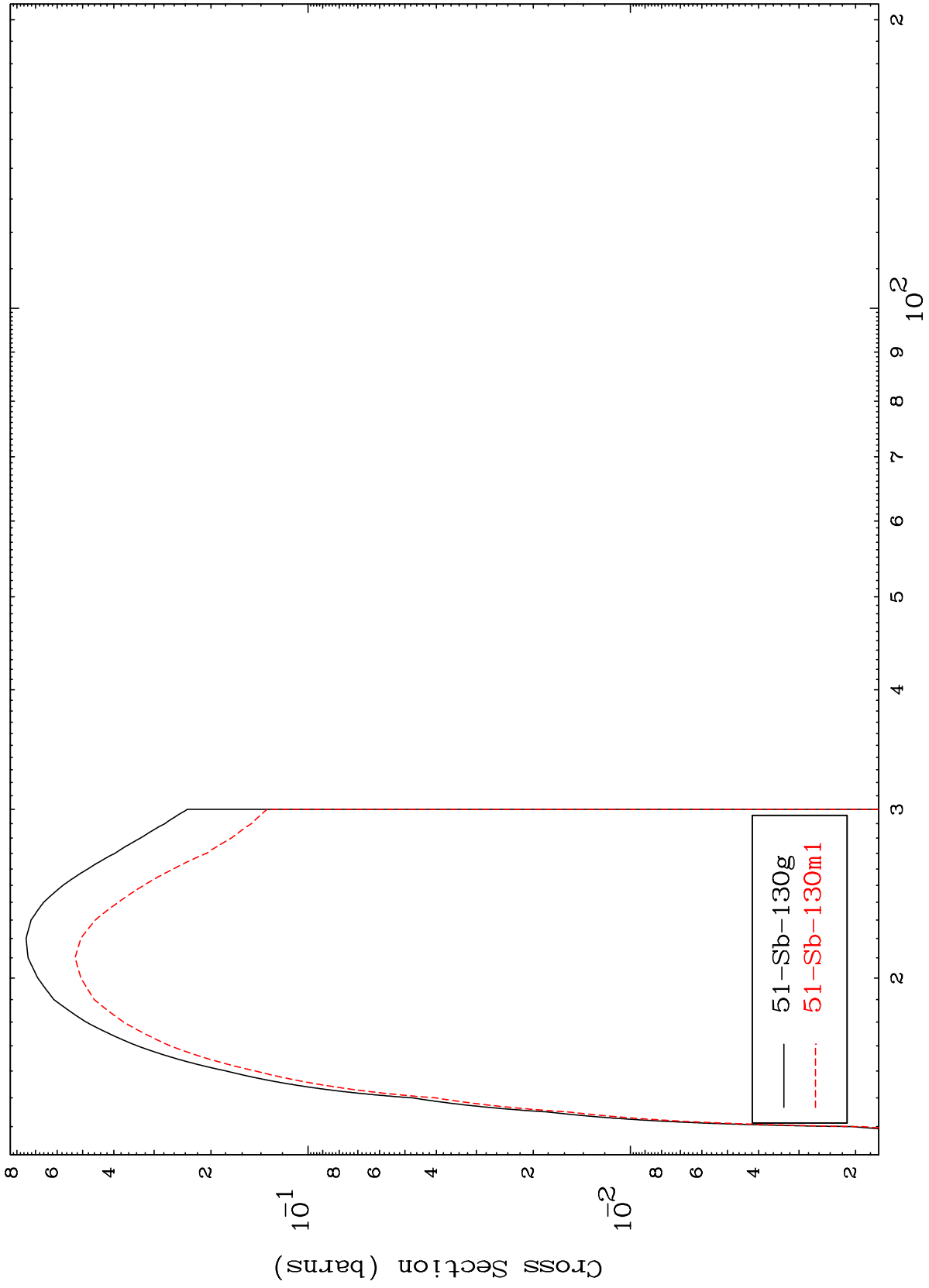
Incident Energy (MeV)

51-Sb-132

MAT 5158

51-Sb-132

Radionuclide Production Cross Section  
(n,3n)



122

51-Sb-132

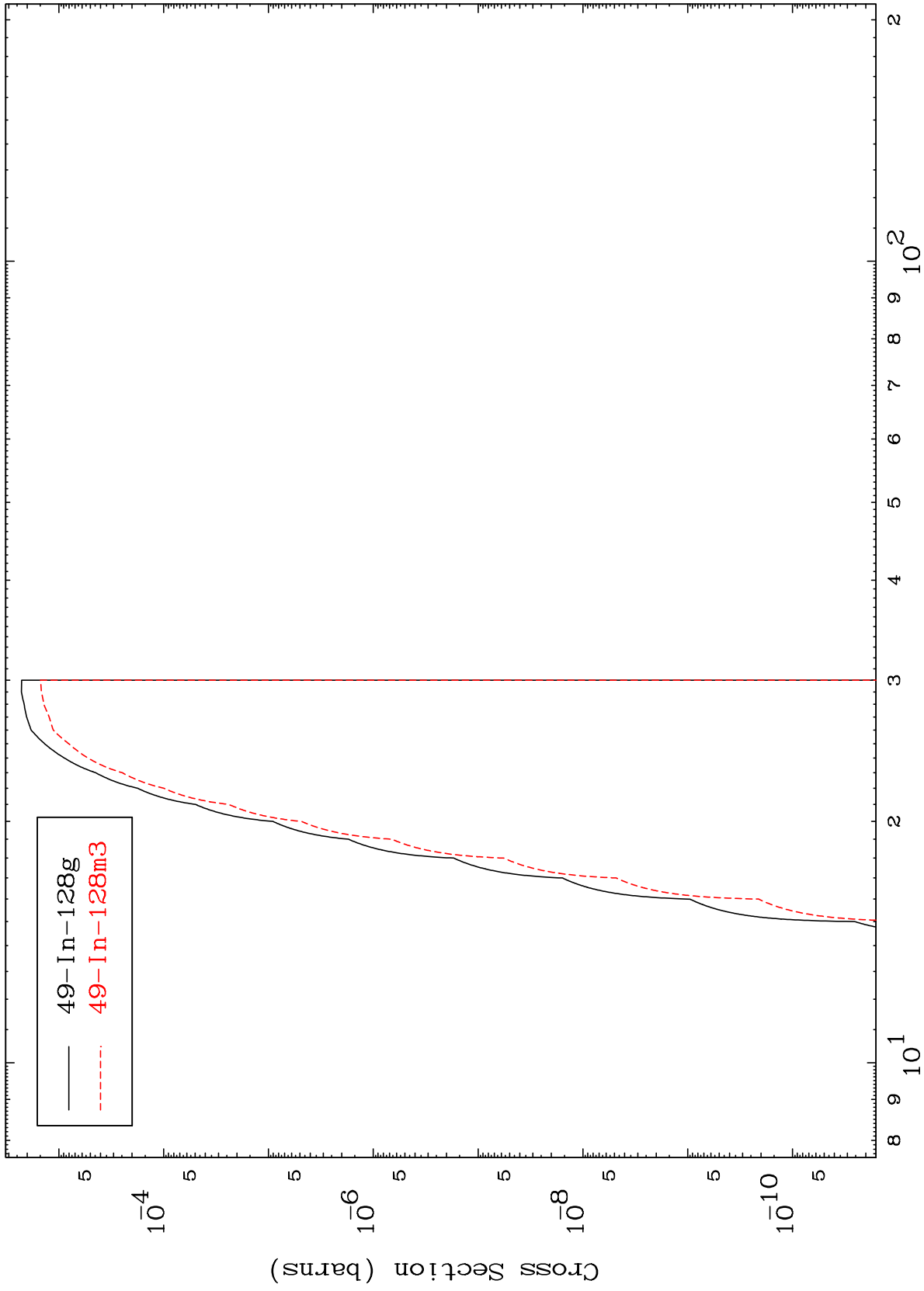
Incident Energy (MeV)

MAT 5158

(n,n')  $\alpha$

51-Sb-132

Radionuclide Production Cross Section



123

Incident Energy (MeV)

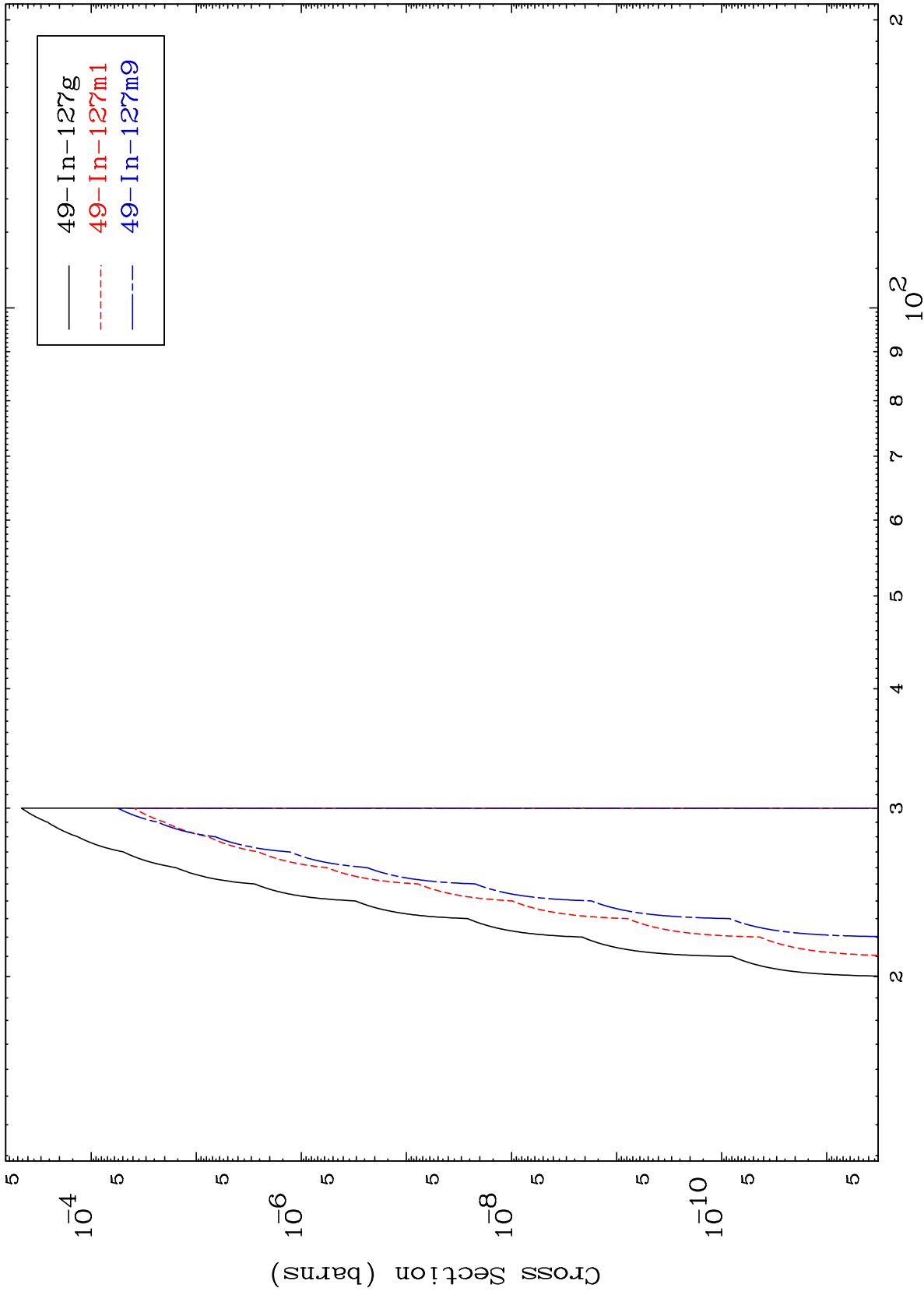
51-Sb-132

MAT 5158

(n,2n)  $\alpha$

51-Sb-132

Radionuclide Production Cross Section



124

Incident Energy (MeV)

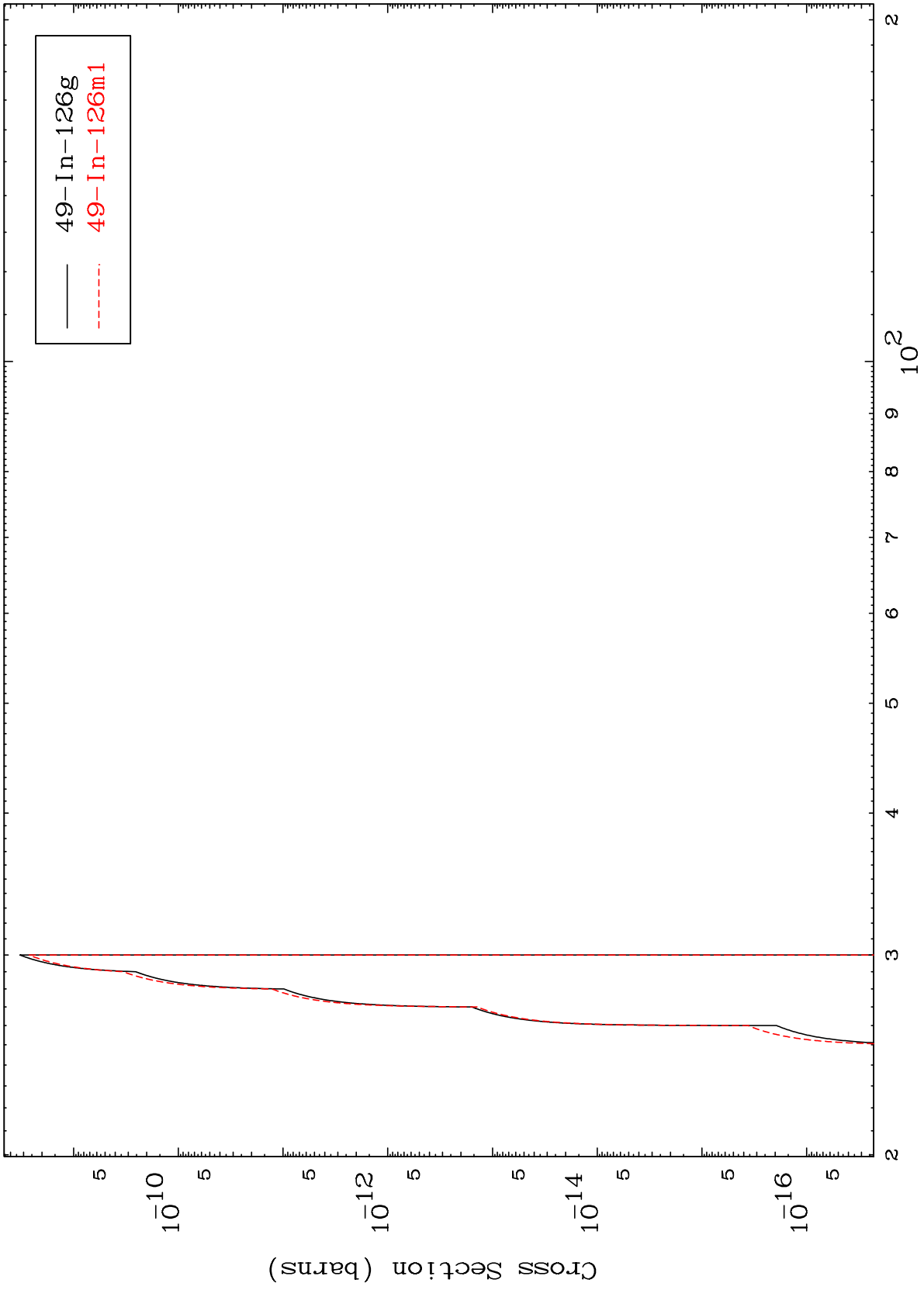
51-Sb-132

MAT 5158

(n,3n)  $\alpha$

51-Sb-132

Radionuclide Production Cross Section



125

Incident Energy (MeV)

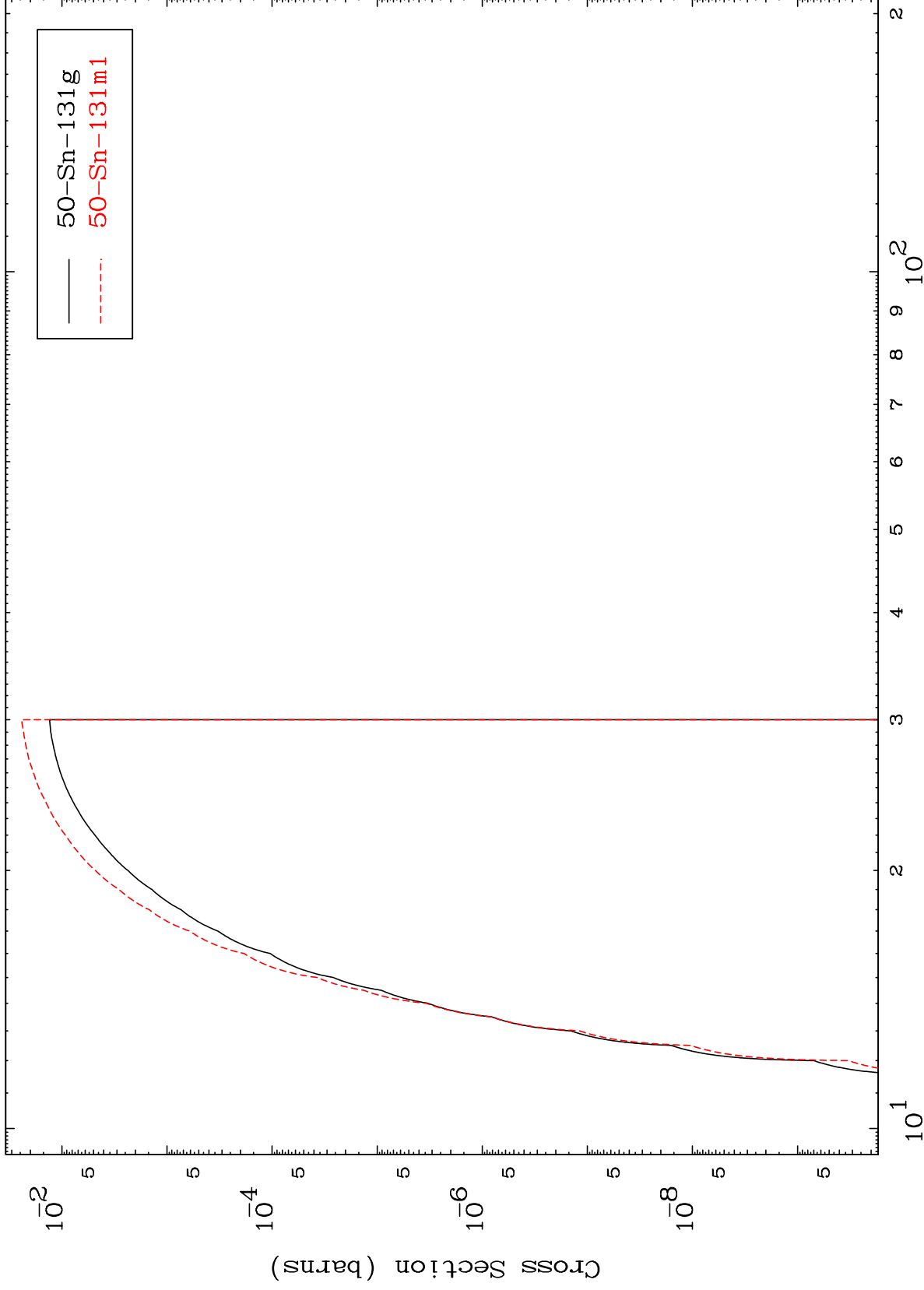
51-Sb-132

MAT 5158

(n,n') p

51-Sb-132

Radionuclide Production Cross Section



126

Incident Energy (MeV)

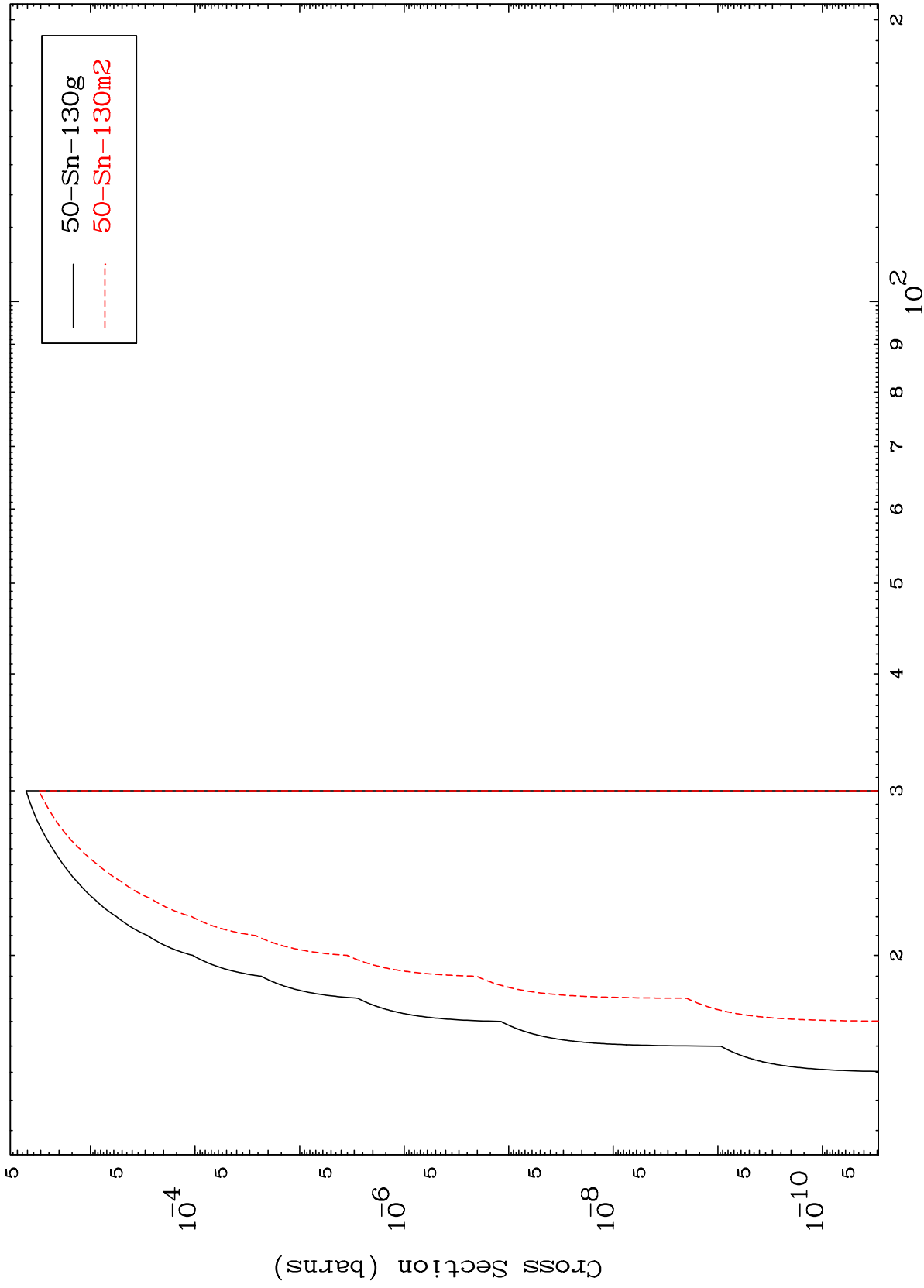
51-Sb-132

MAT 5158

(n,n') d

51-Sb-132

Radionuclide Production Cross Section



127

Incident Energy (MeV)

51-Sb-132

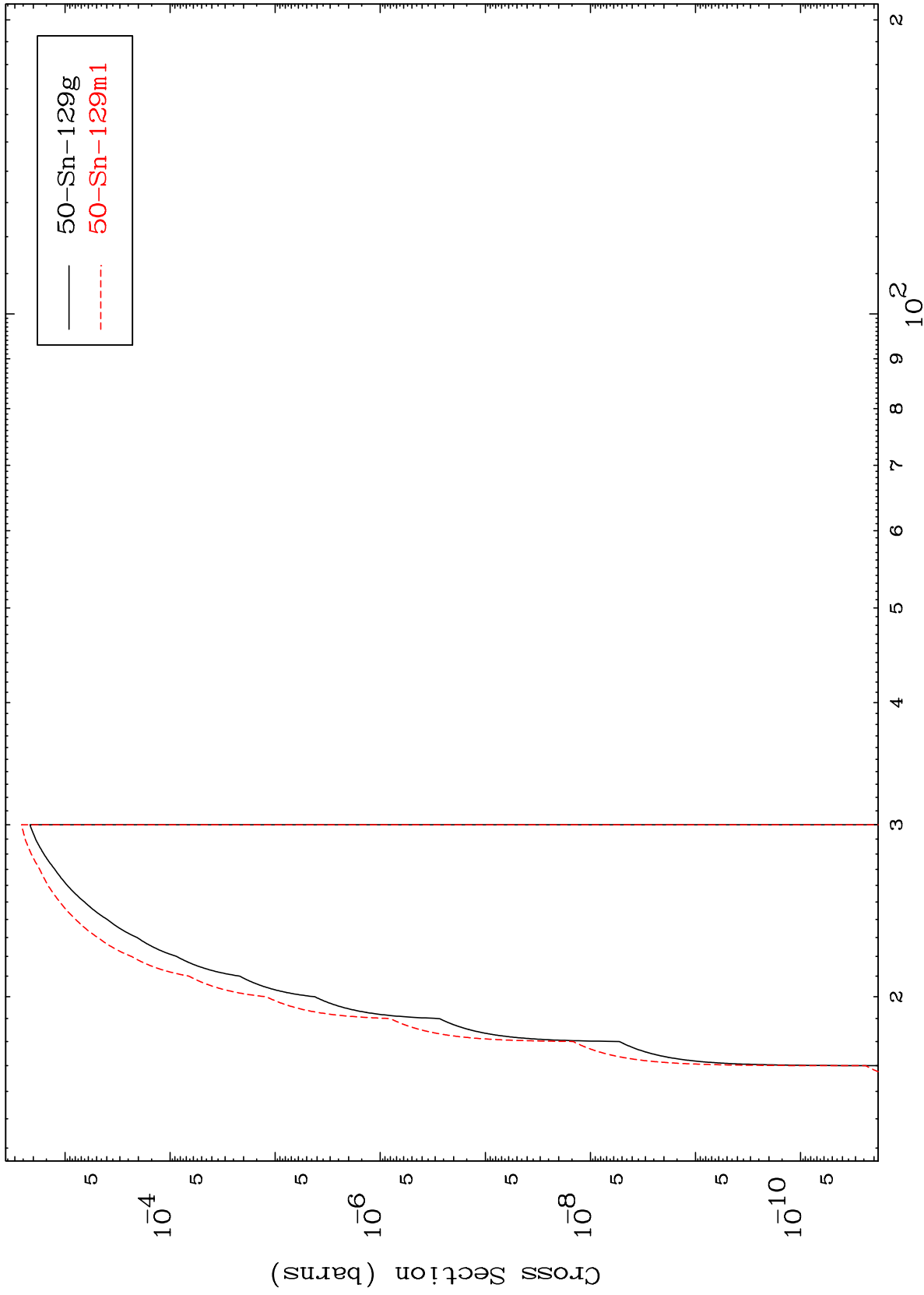


MAT 5158

(n,n') t

51-Sb-132

Radionuclide Production Cross Section



128

Incident Energy (MeV)

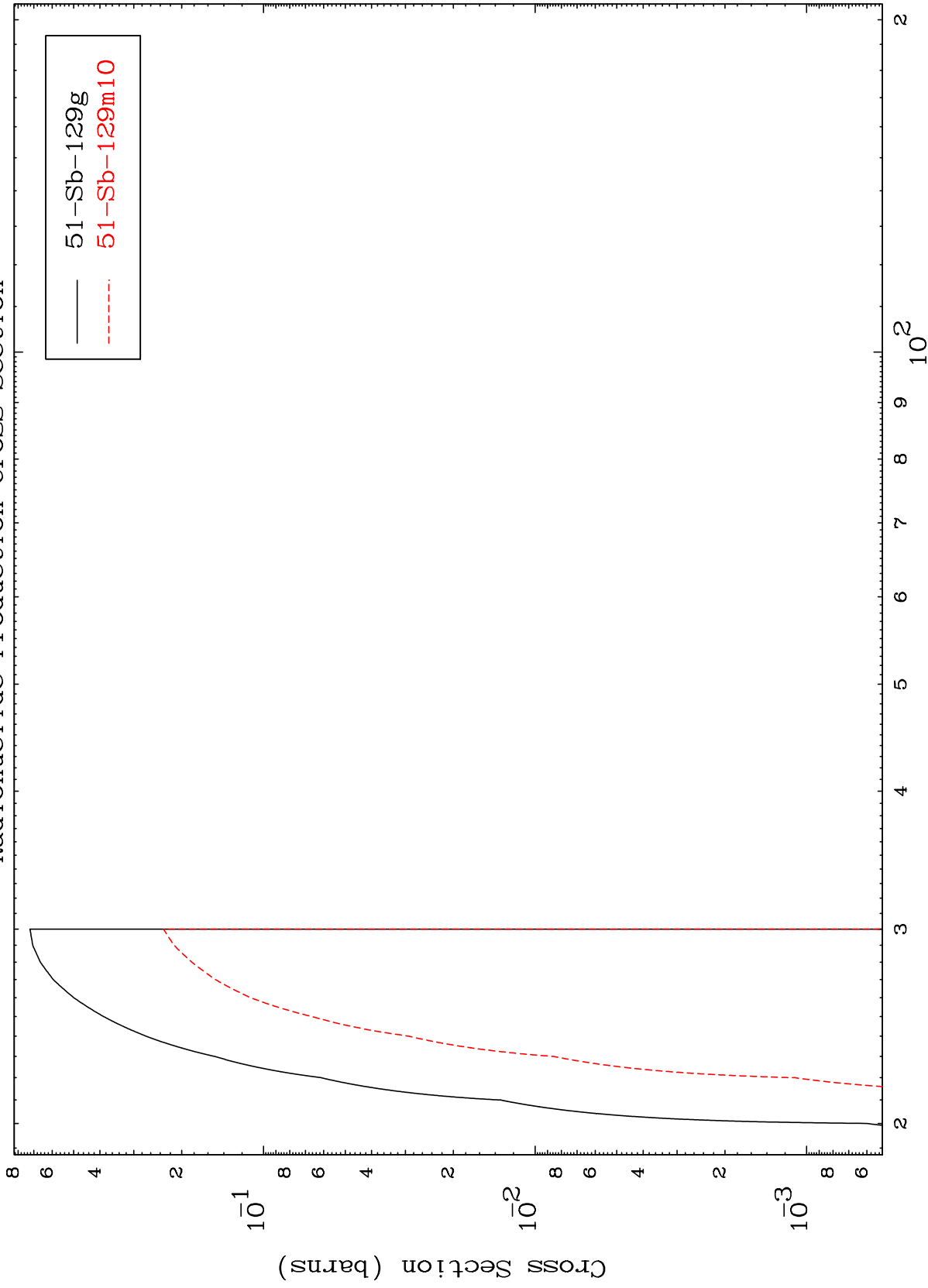
51-Sb-132

MAT 5158

(n,4n)

51-Sb-132

Radionuclide Production Cross Section



129

Incident Energy (MeV)

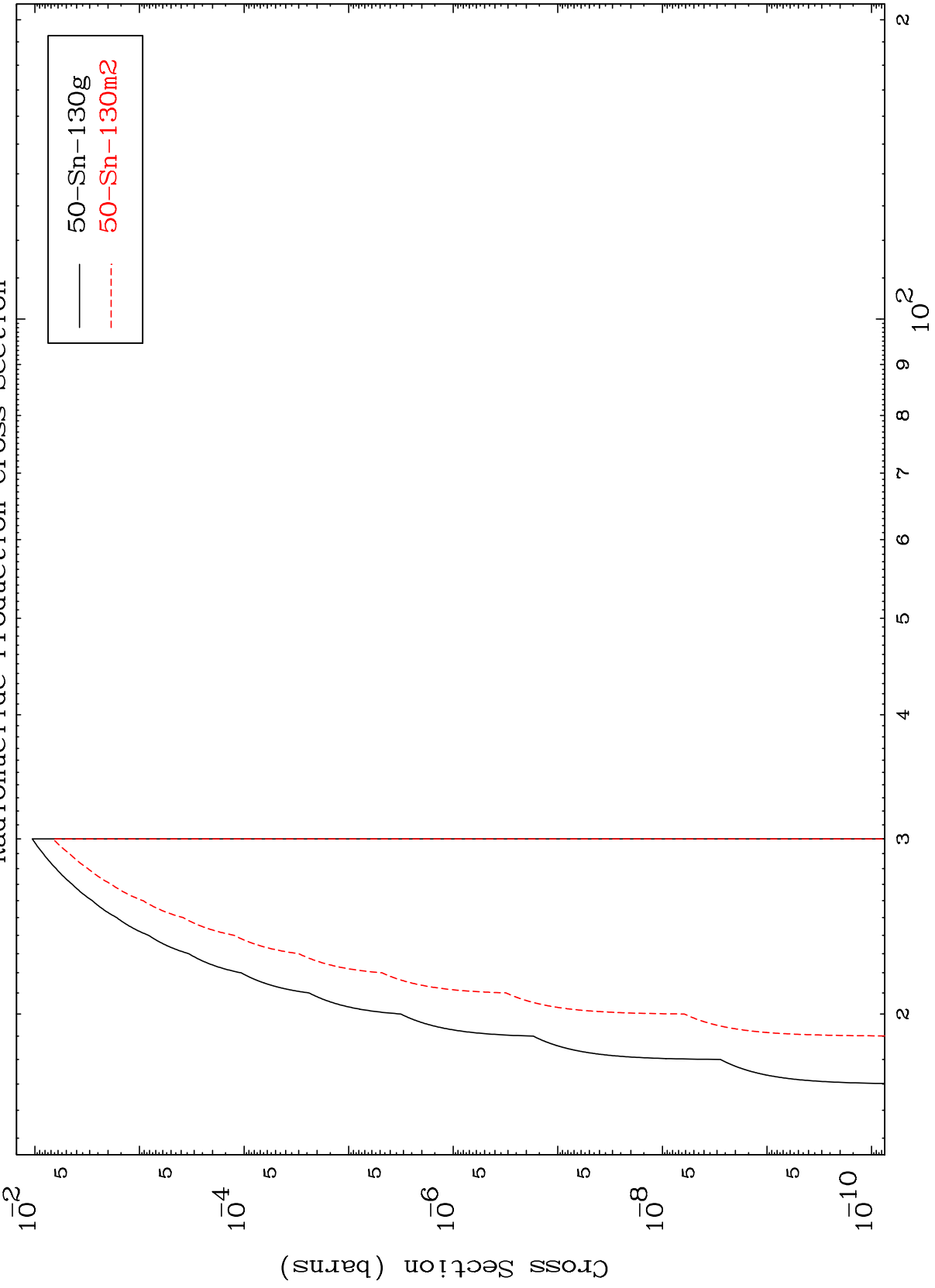
51-Sb-132

MAT 5158

(n,2n) p

51-Sb-132

Radionuclide Production Cross Section



130

Incident Energy (MeV)

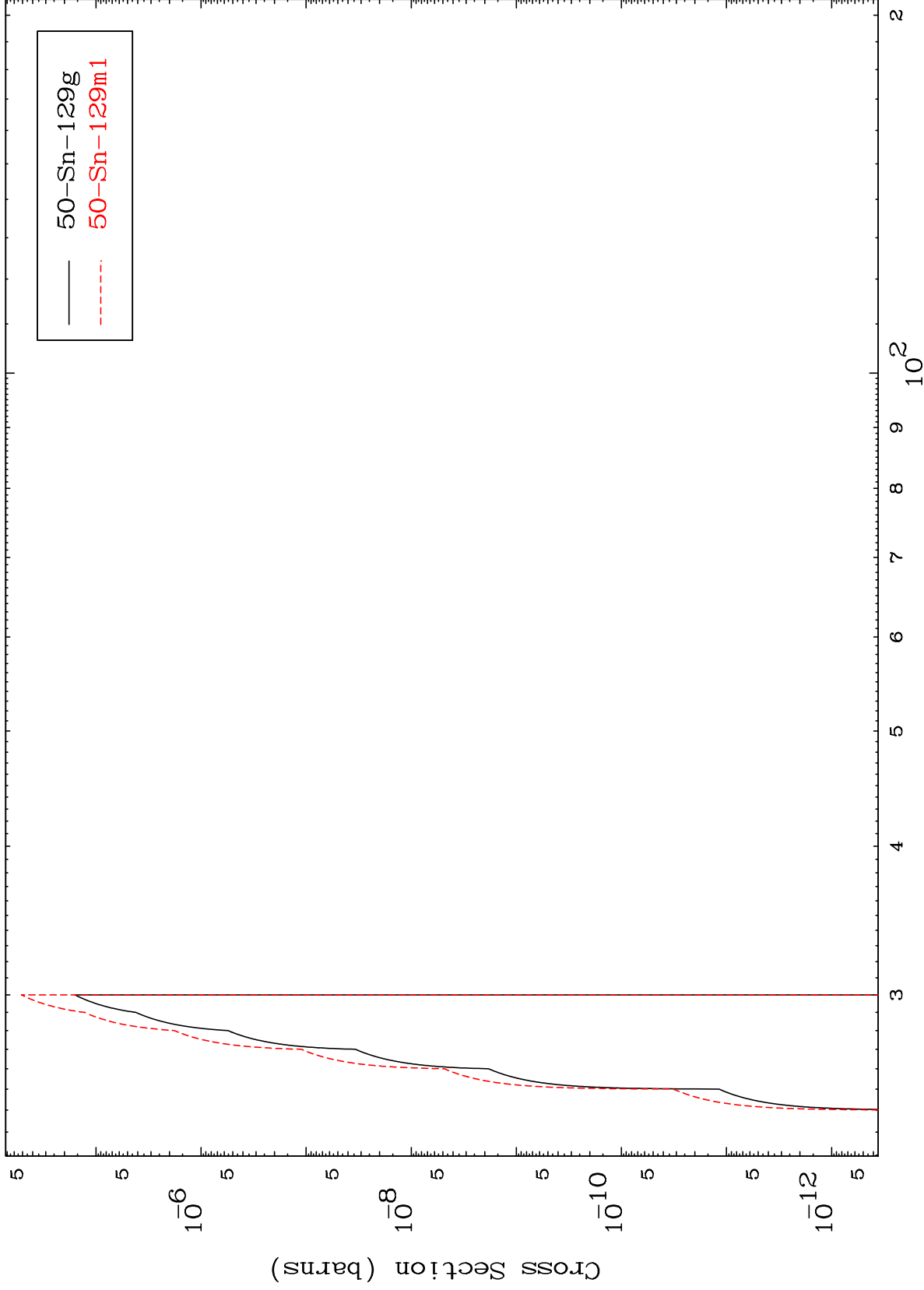
51-Sb-132

MAT 5158

(n,3n) p

51-Sb-132

Radionuclide Production Cross Section



131

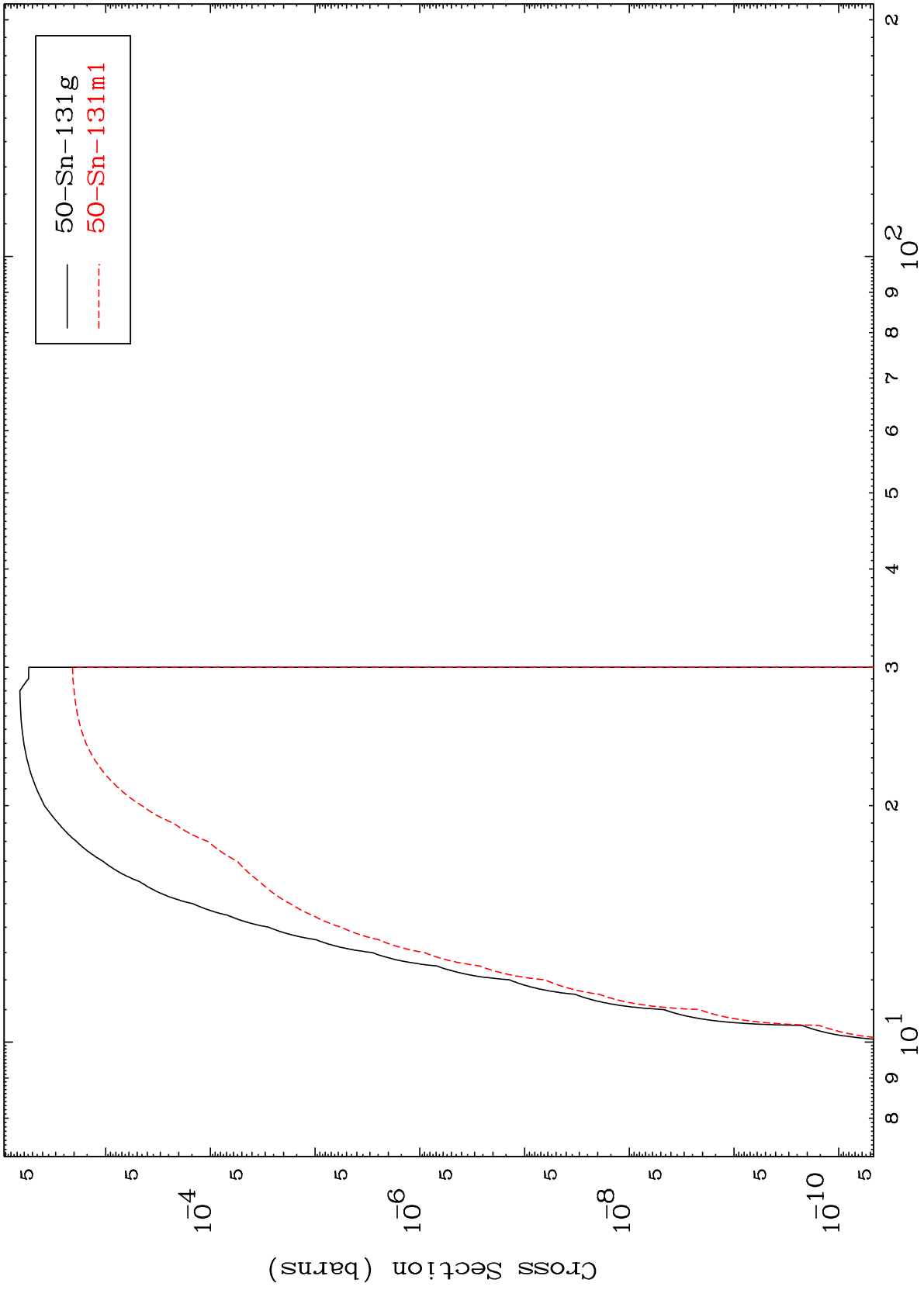
Incident Energy (MeV)

51-Sb-132

MAT 5158

51-Sb-132

(n,d)  
Radionuclide Production Cross Section



132

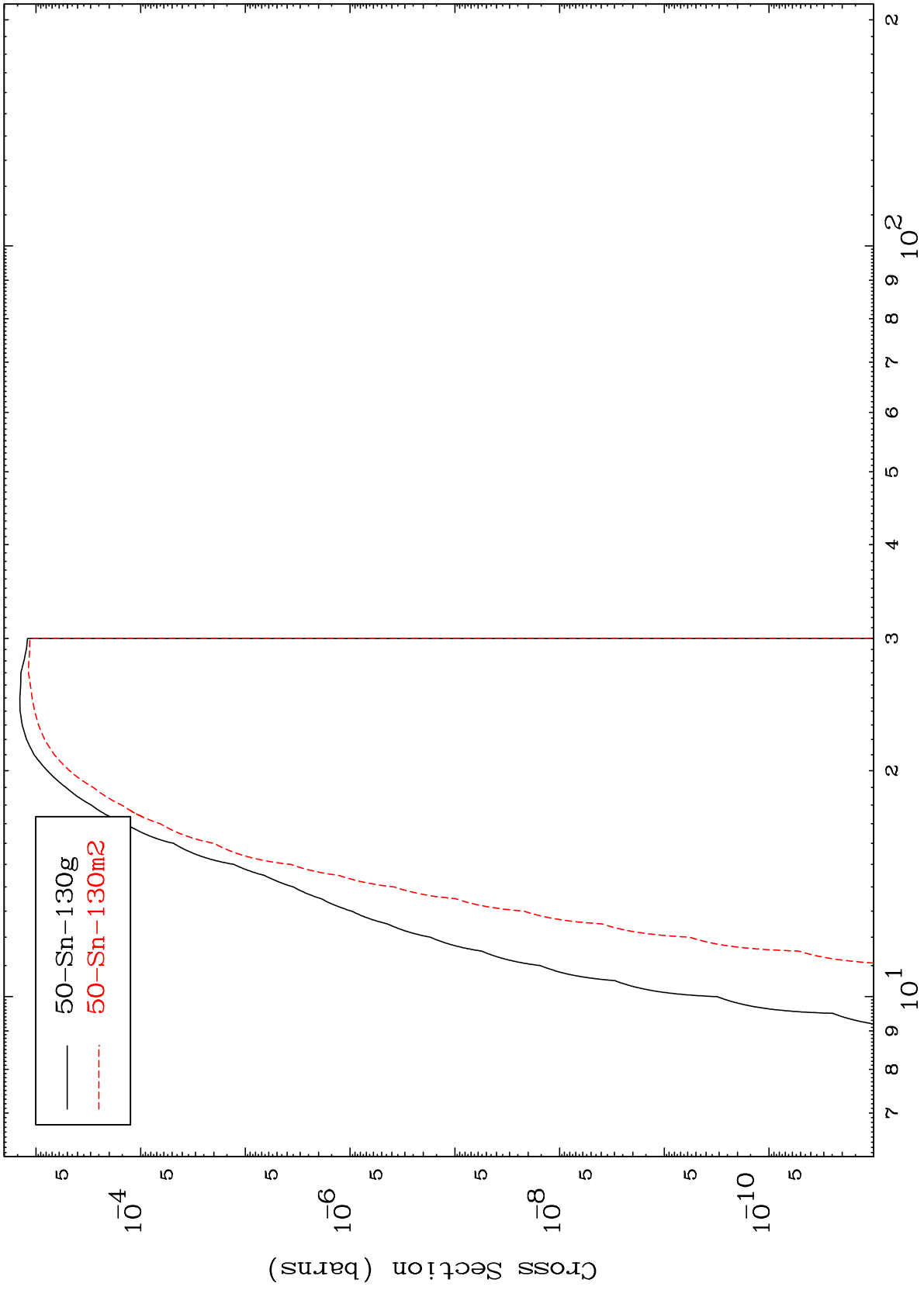
Incident Energy (MeV)

51-Sb-132

MAT 5158

51-Sb-132

(n,t)  
Radionuclide Production Cross Section



133

Incident Energy (MeV)

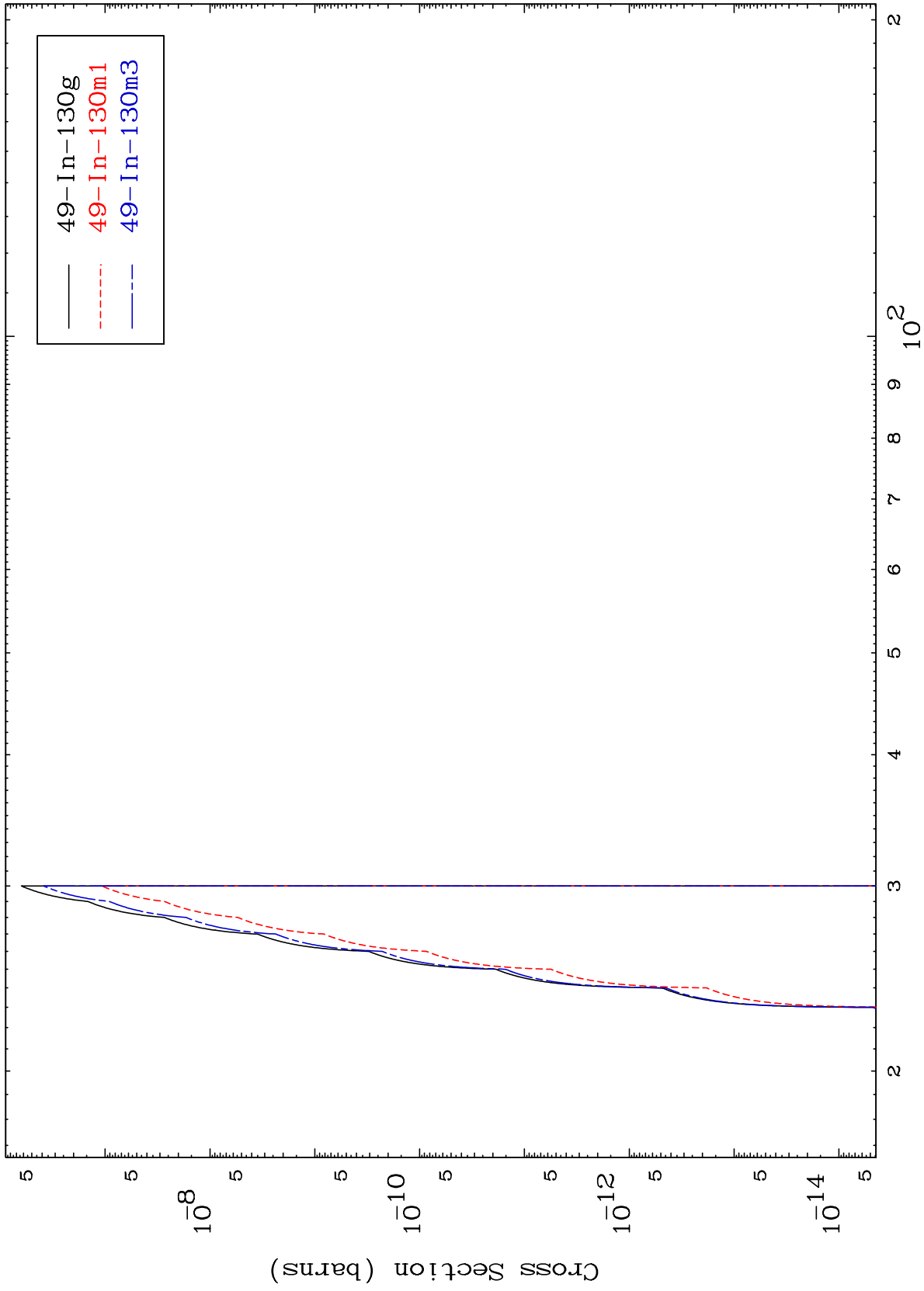
51-Sb-132

MAT 5158

(n,He-3)

51-Sb-132

Radionuclide Production Cross Section



134

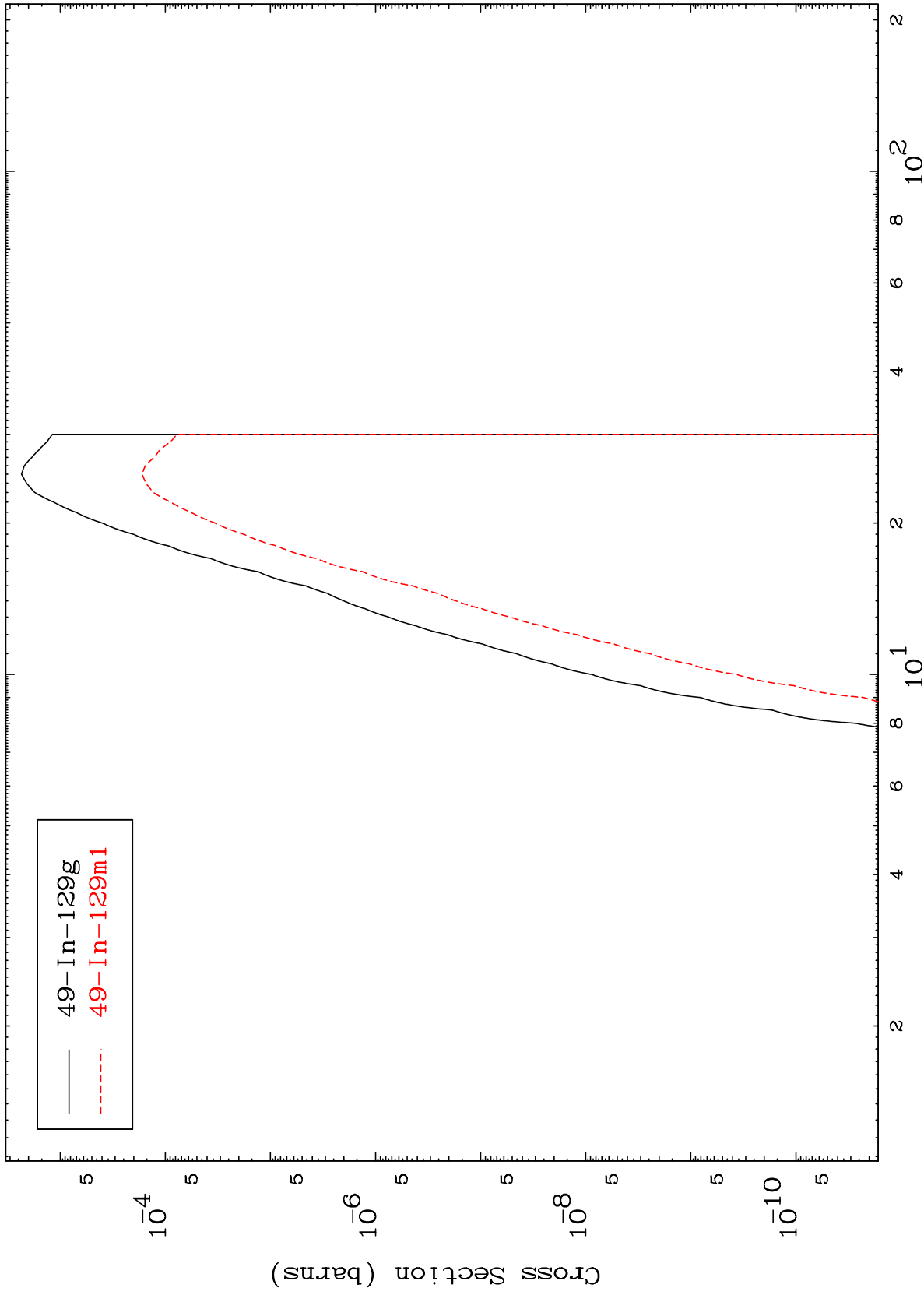
Incident Energy (MeV)

51-Sb-132

MAT 5158

51-Sb-132

(n,α)  
Radionuclide Production Cross Section



135

51-Sb-132