

Program EVALPLOT
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

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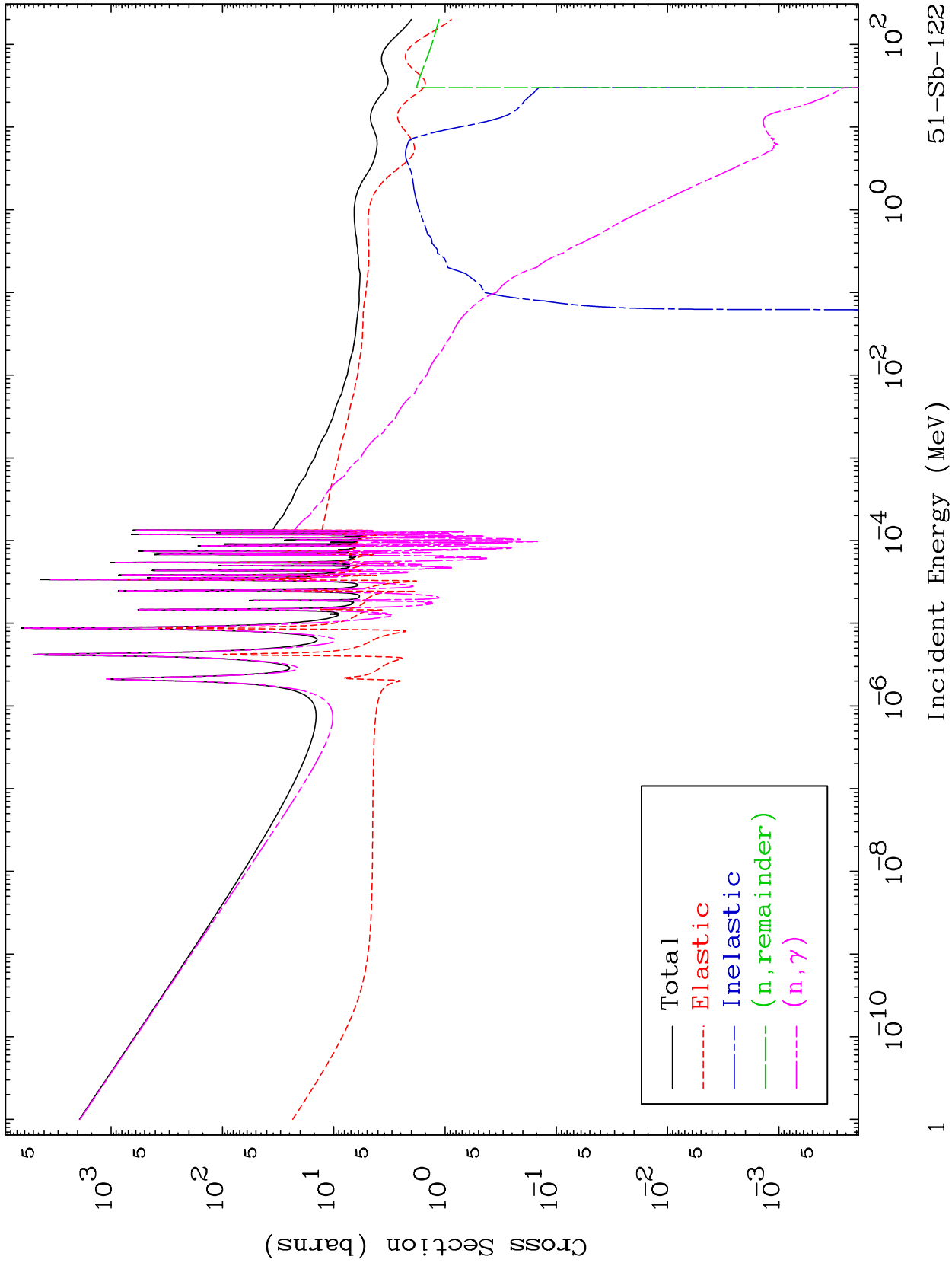
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5128

Major
293 Kelvin Cross Sections

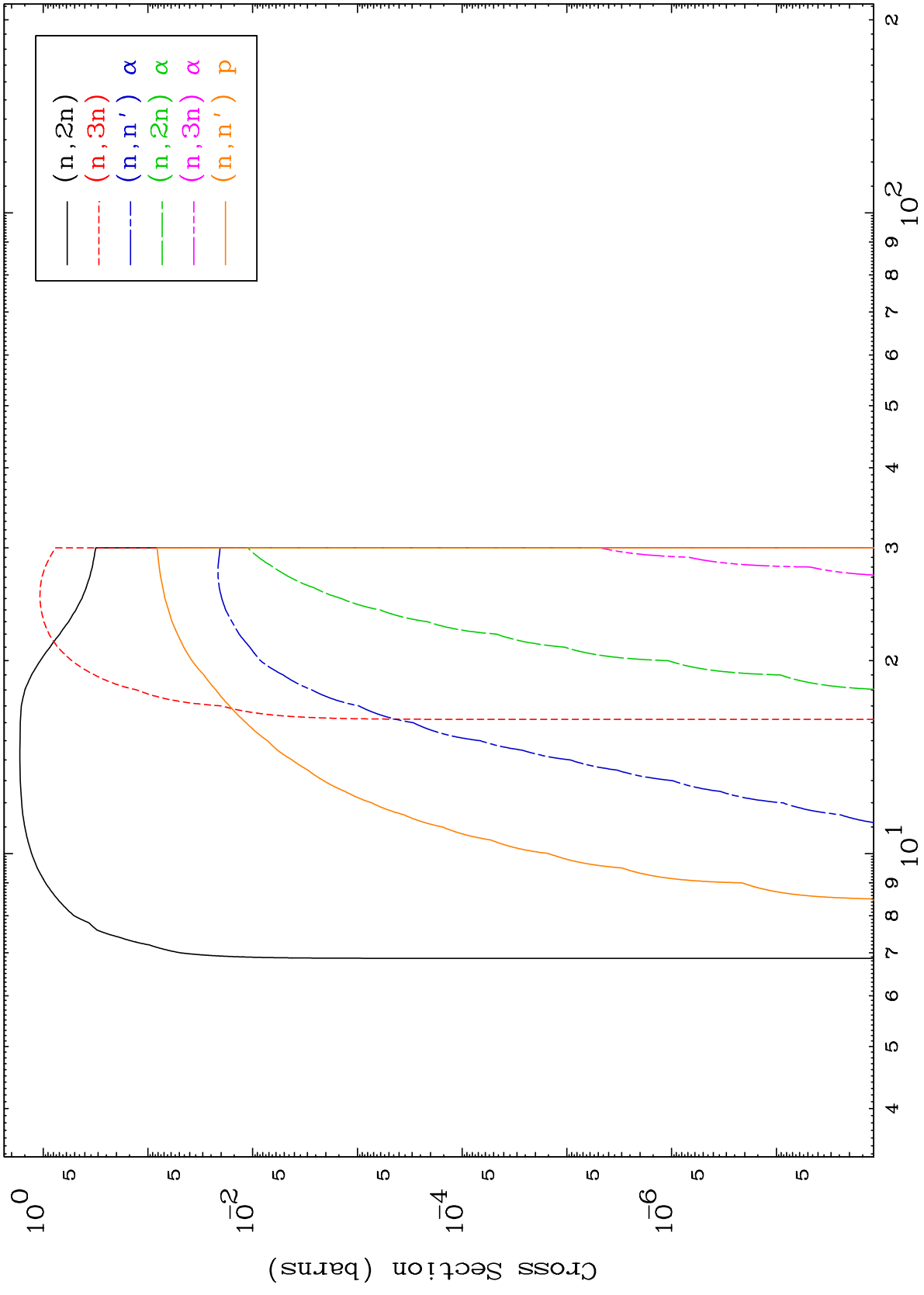
51-Sb-122



MAT 5128

Neutron Production 293 Kelvin Cross Sections

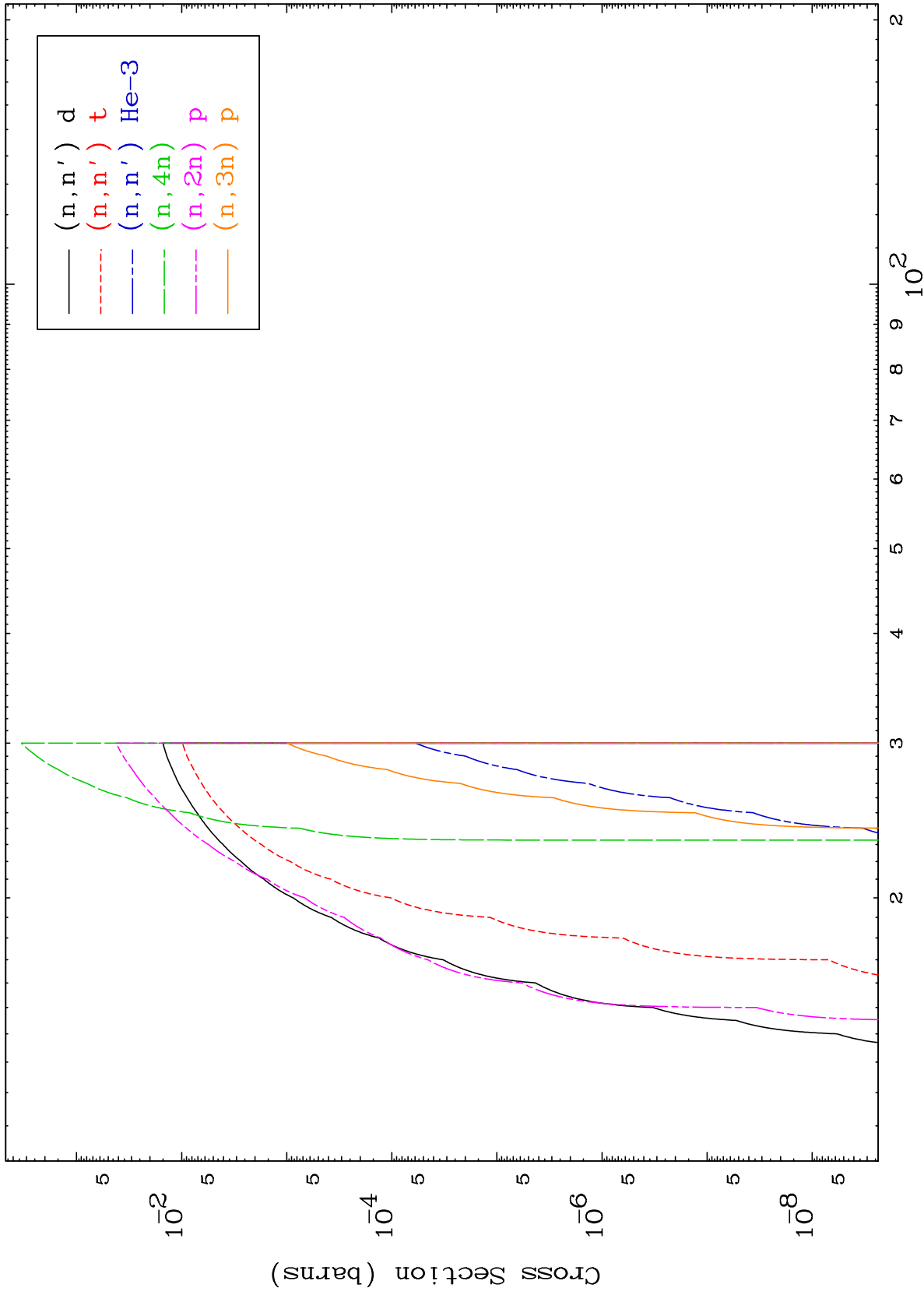
51-Sb-122



2

Incident Energy (MeV)

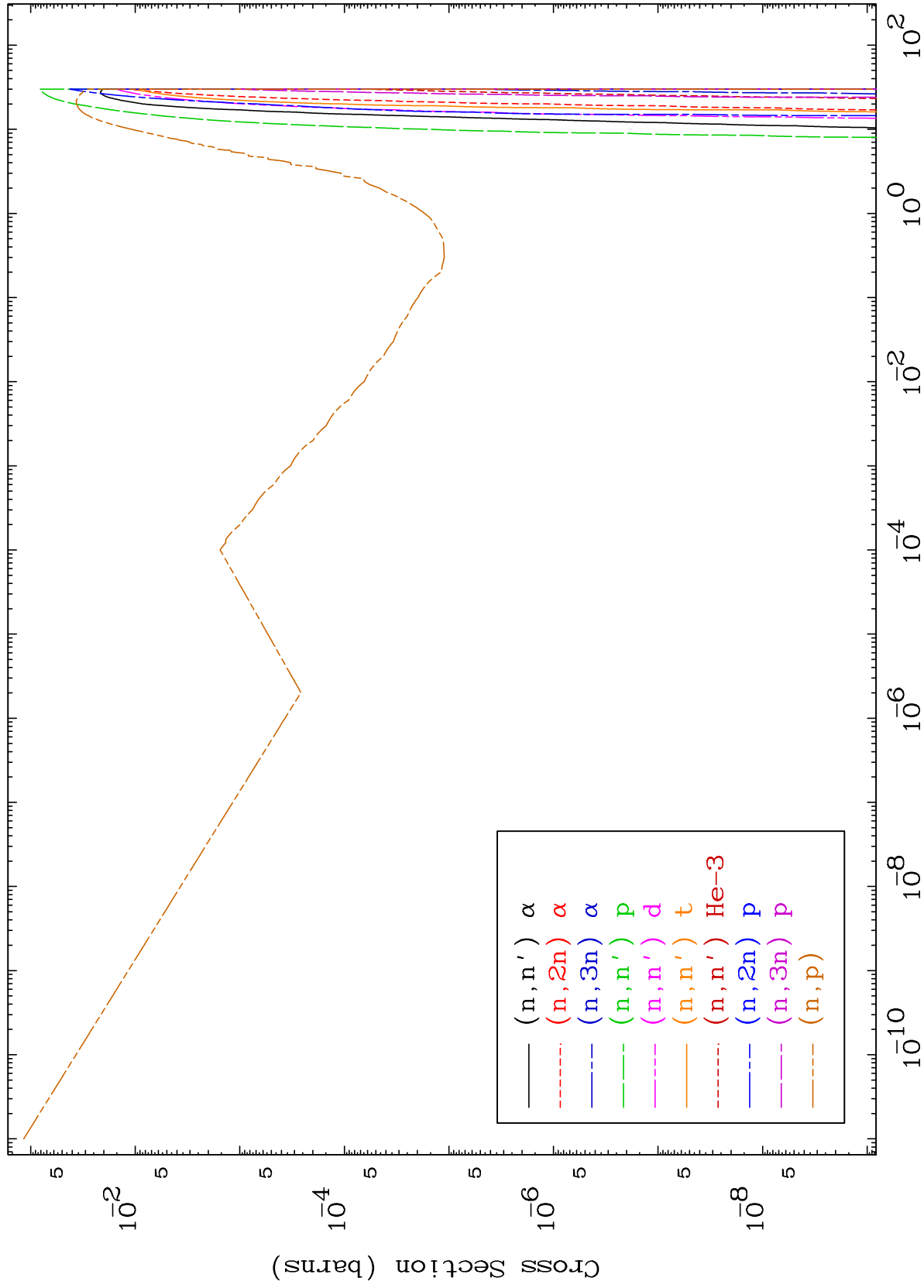
51-Sb-122

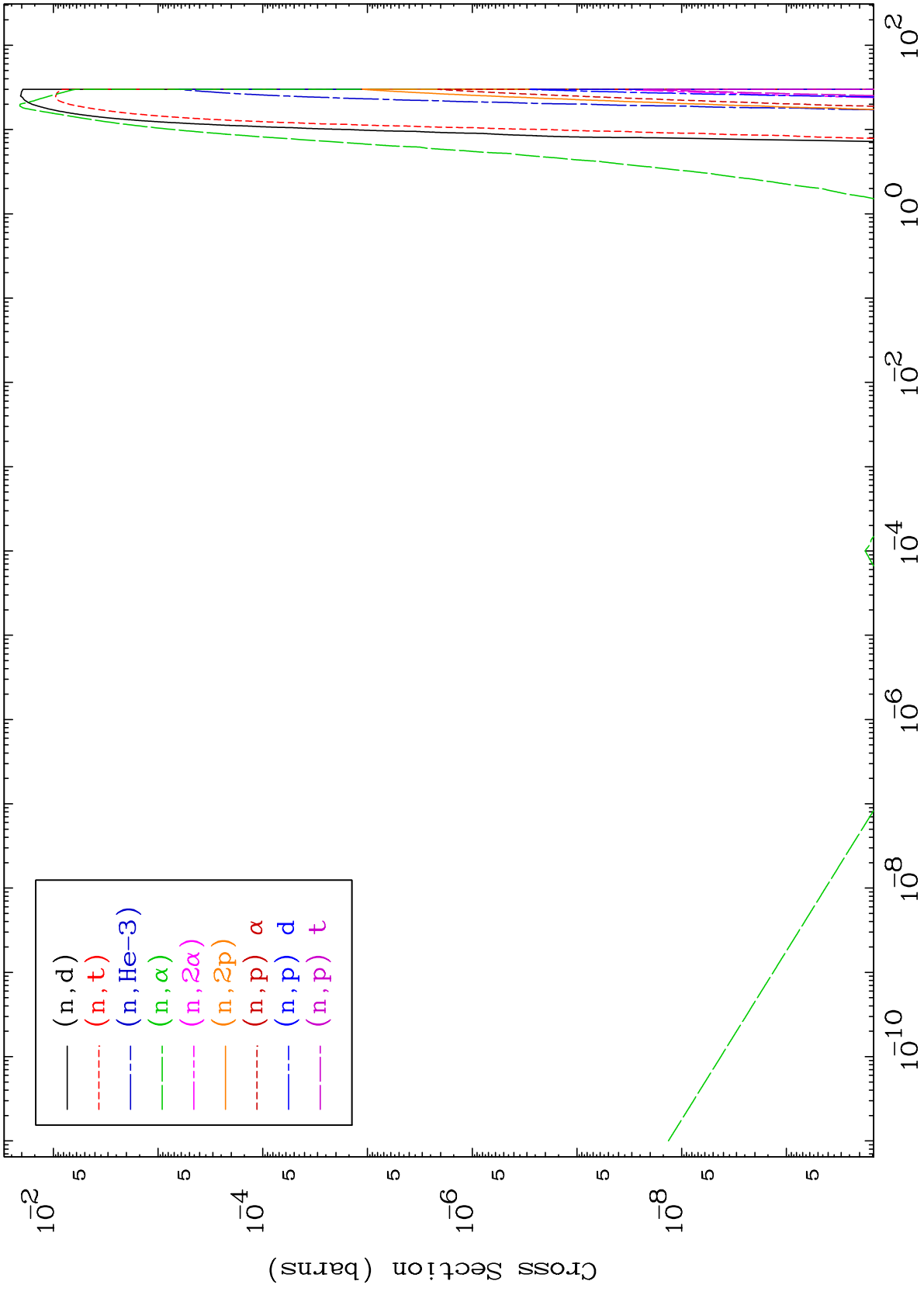


MAT 5128

293 Kelvin Cross Sections

51-Sb-122

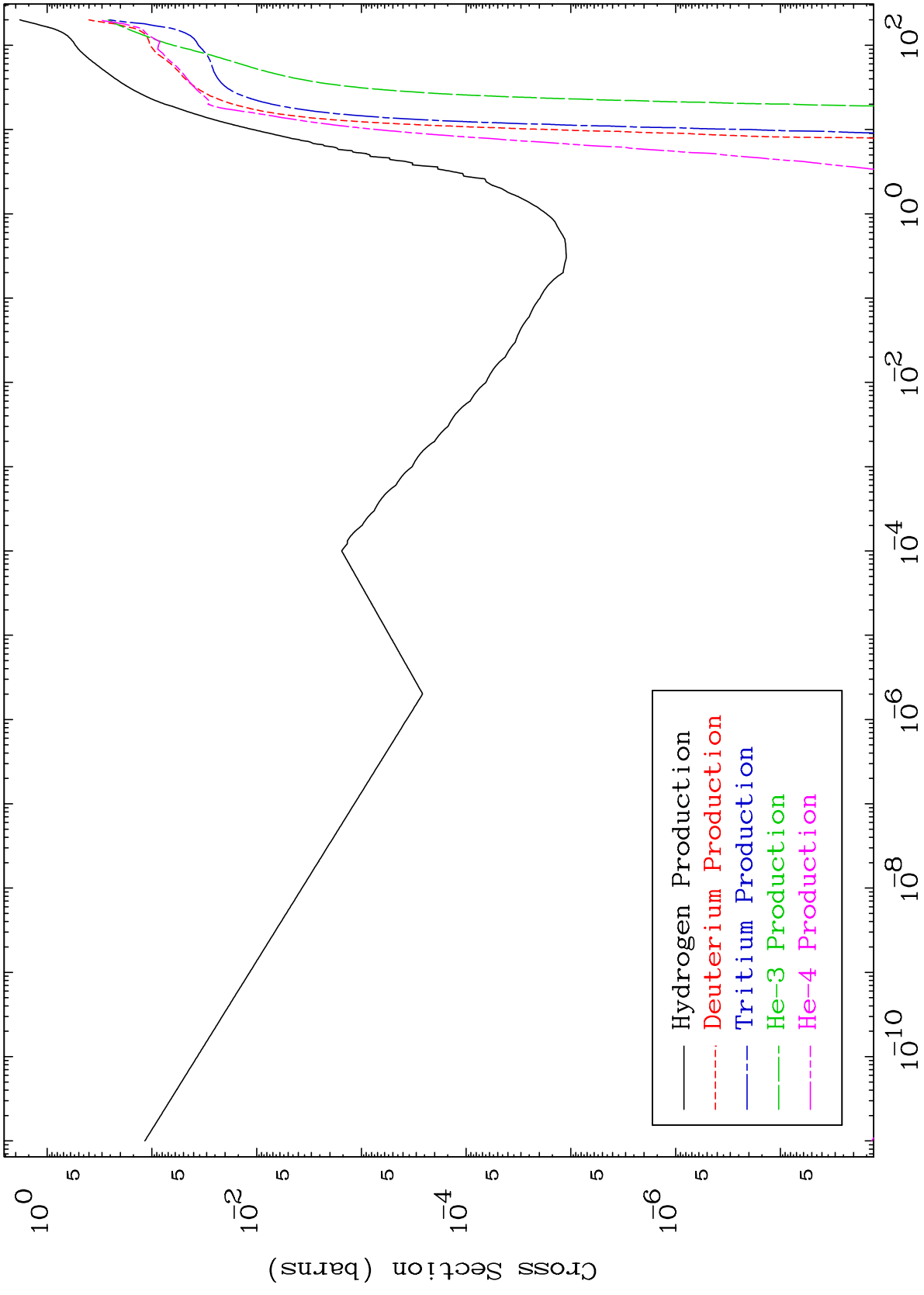




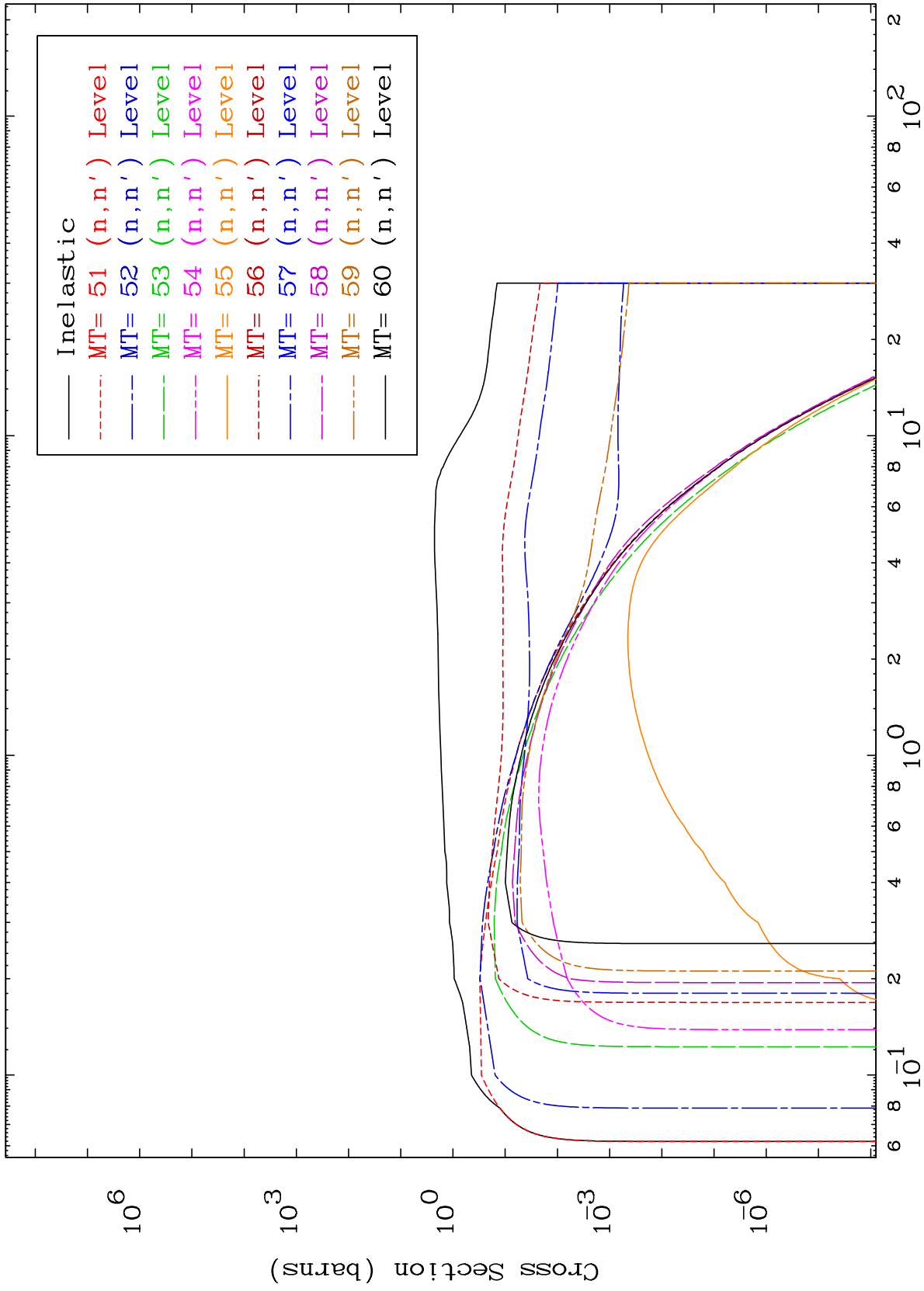
MAT 5128

Particle Production
293 Kelvin Cross Sections

51-Sb-122



51-Sb-122

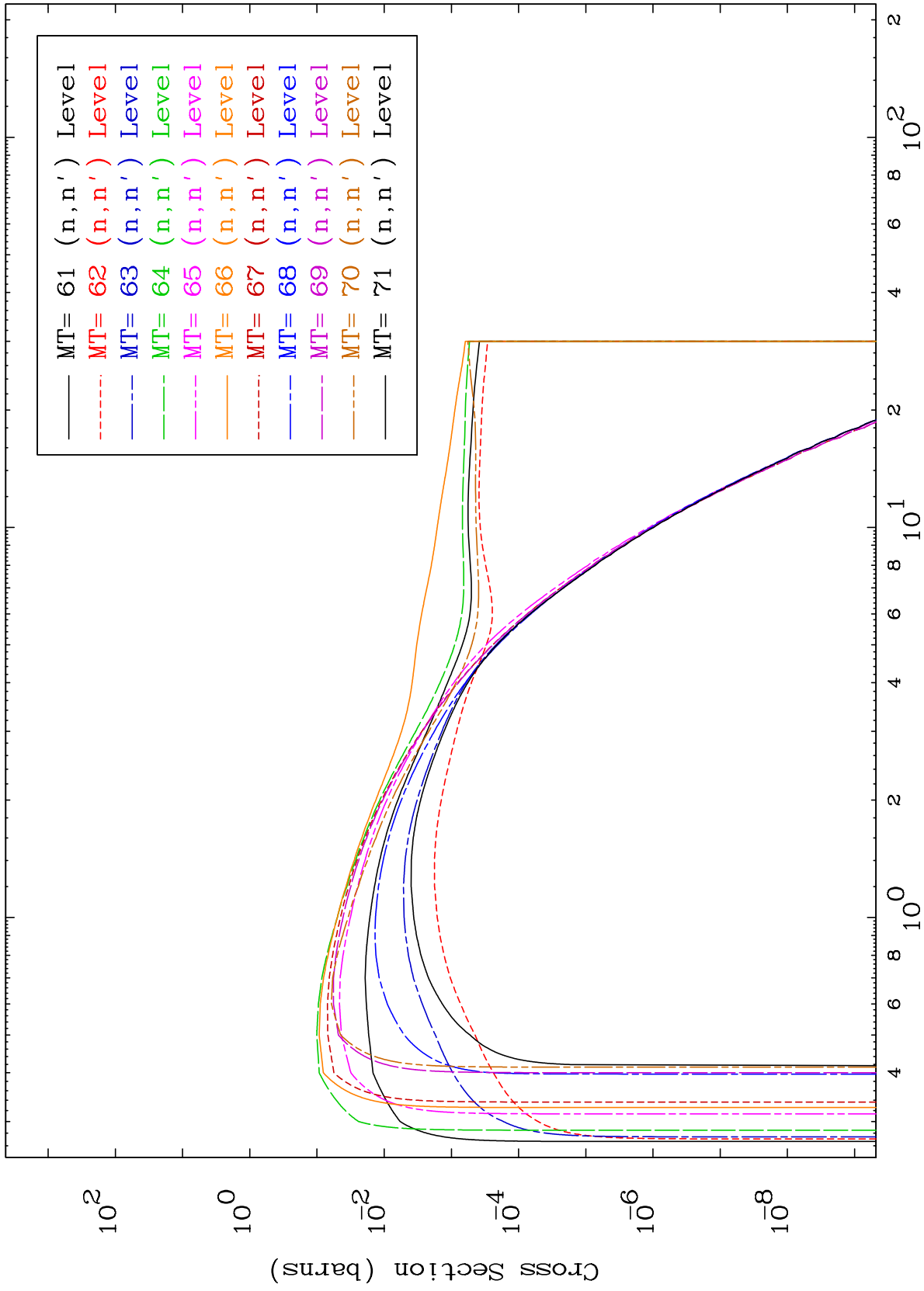


MAT 5128

(n,n') Level

51-Sb-122

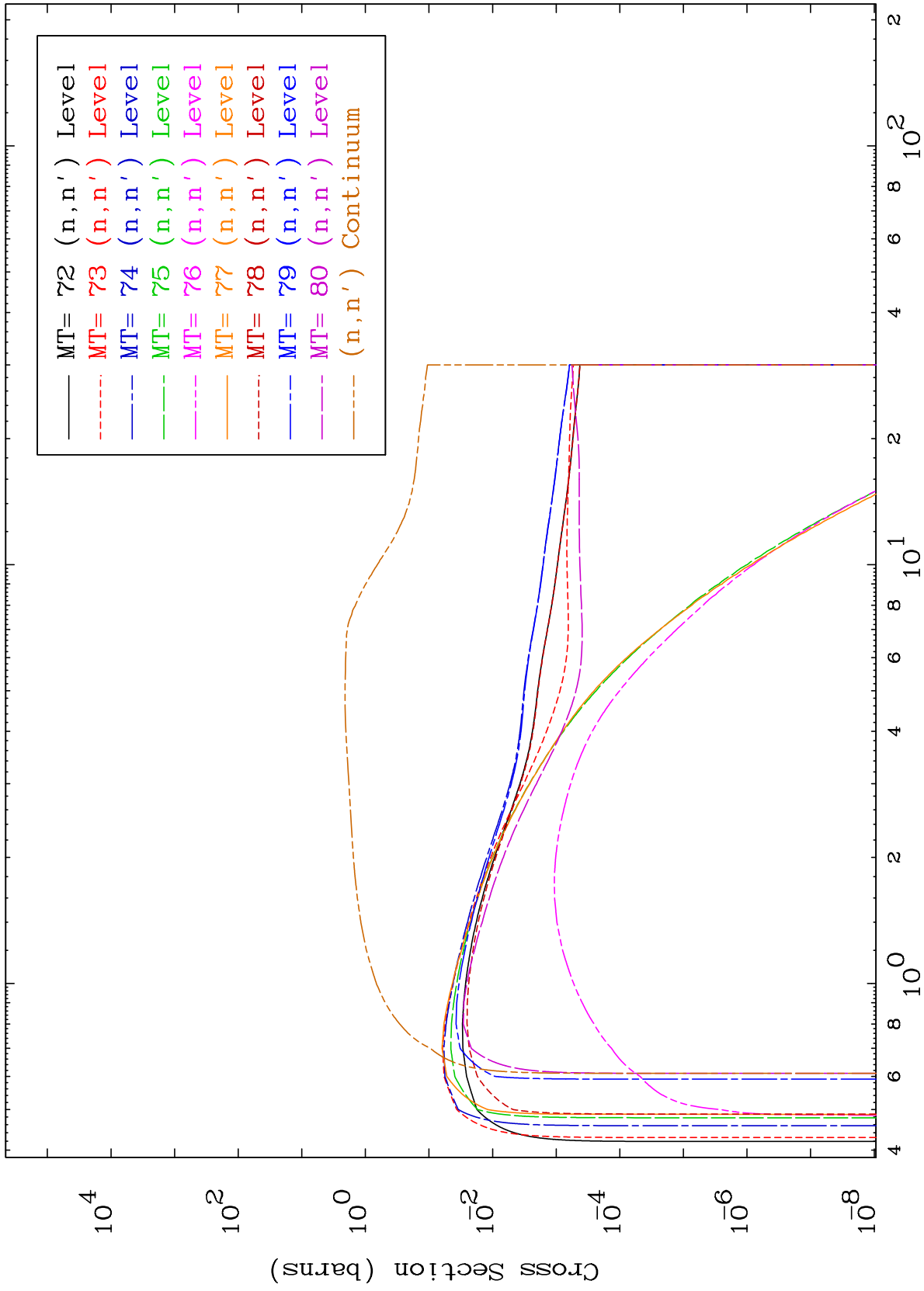
293 Kelvin Cross Sections



8

Incident Energy (MeV)

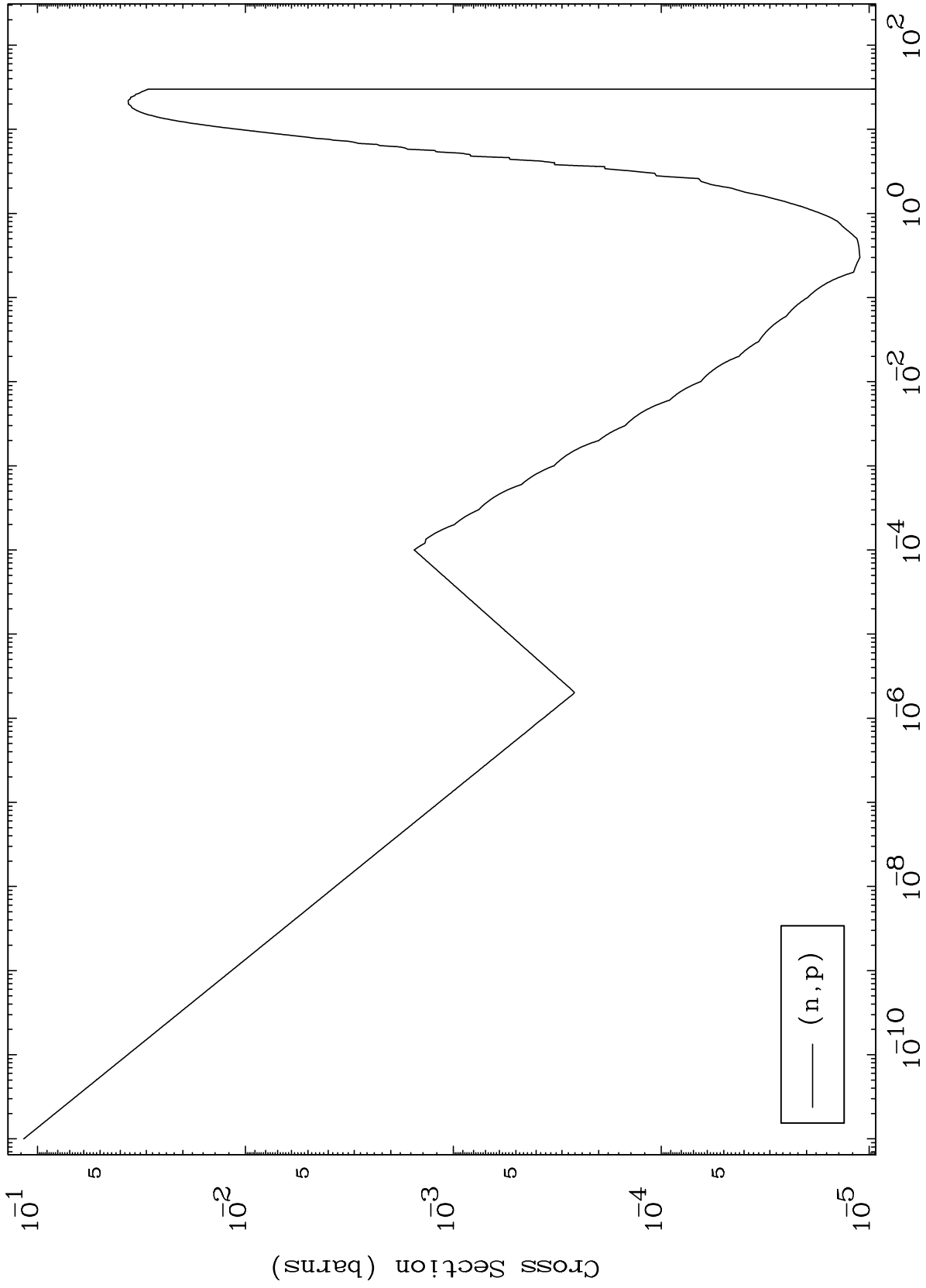
51-Sb-122



MAT 5128

(n,p) Levels
293 Kelvin Cross Sections

51-Sb-122



— (n, p)

10

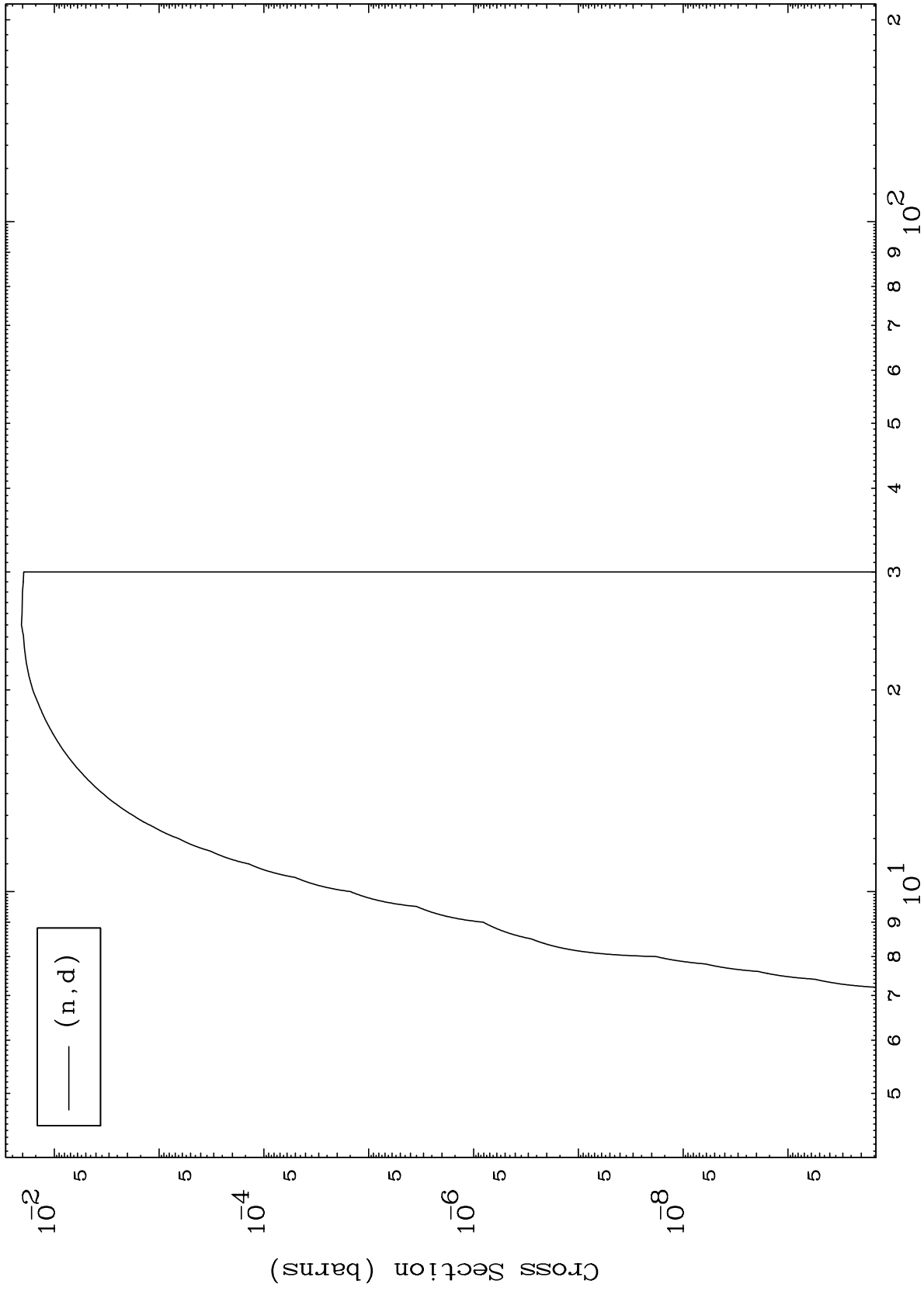
Incident Energy (MeV)

51-Sb-122

MAT 5128

(n,d) Levels
293 Kelvin Cross Sections

51-Sb-122



11

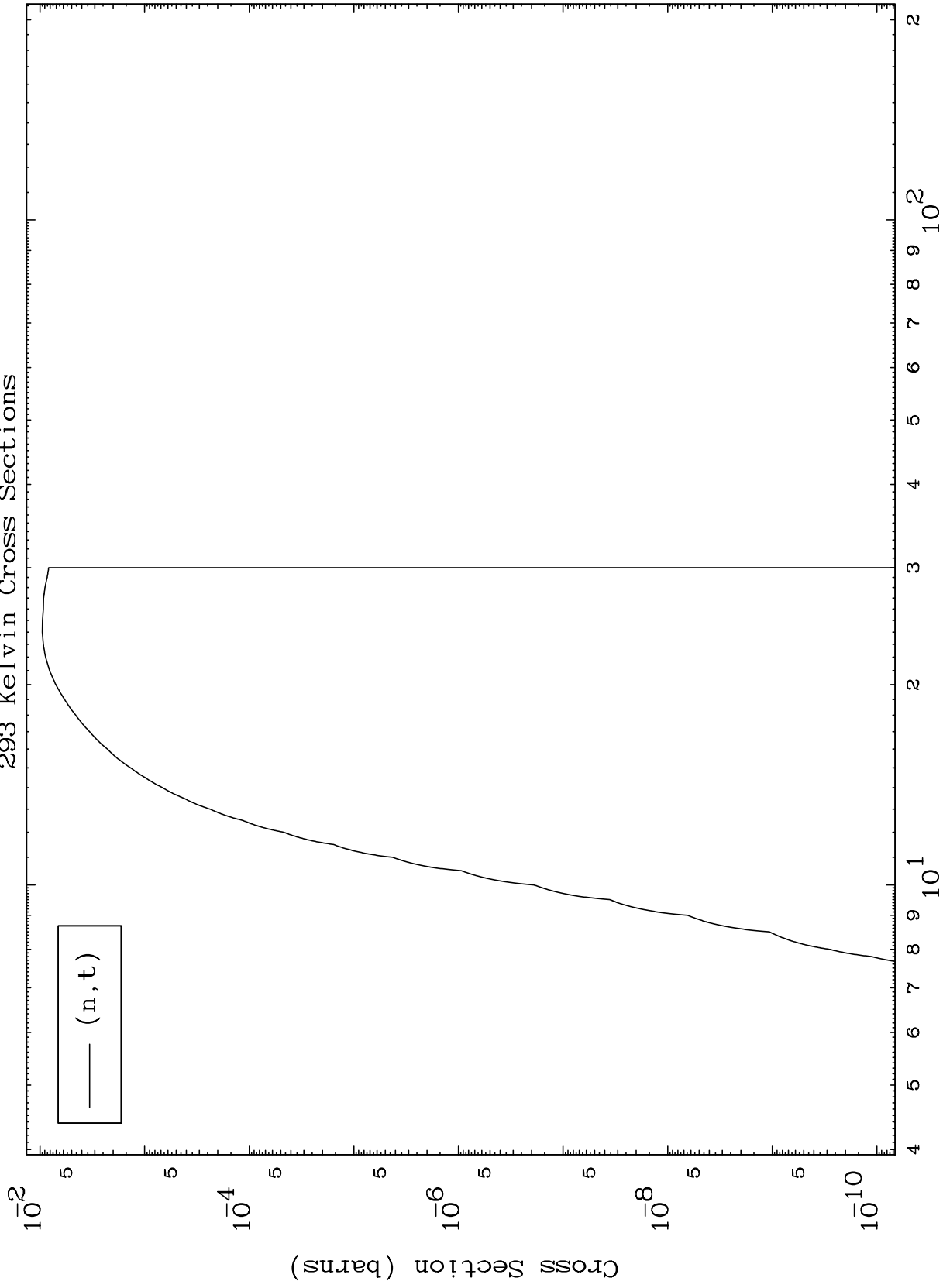
Incident Energy (MeV)

51-Sb-122

MAT 5128

(n,t) Levels
293 Kelvin Cross Sections

51-Sb-122



12

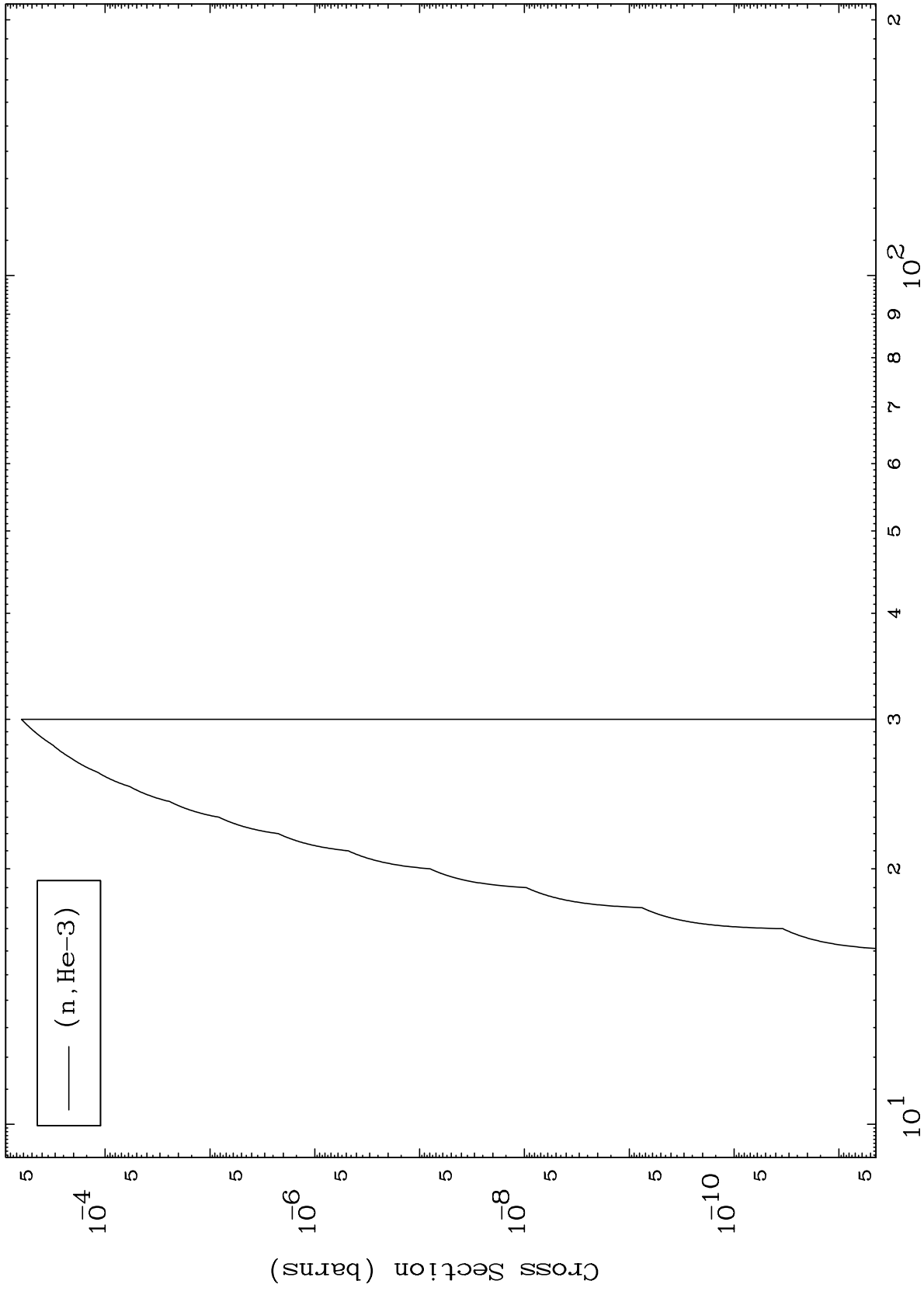
Incident Energy (MeV)

51-Sb-122

MAT 5128

(n,He3) Levels
293 Kelvin Cross Sections

51-Sb-122



13

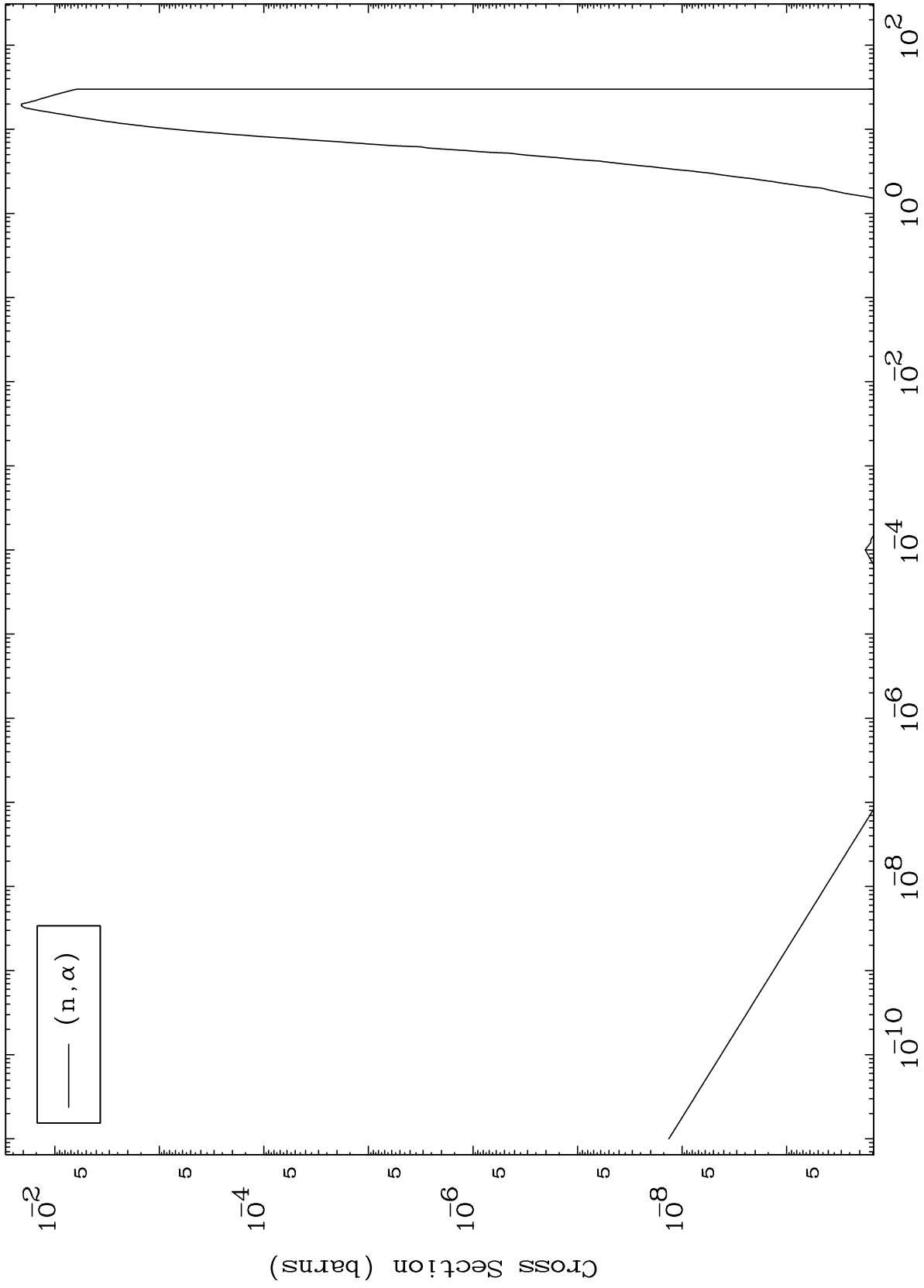
Incident Energy (MeV)

51-Sb-122

MAT 5128

(n,α) Levels
293 Kelvin Cross Sections

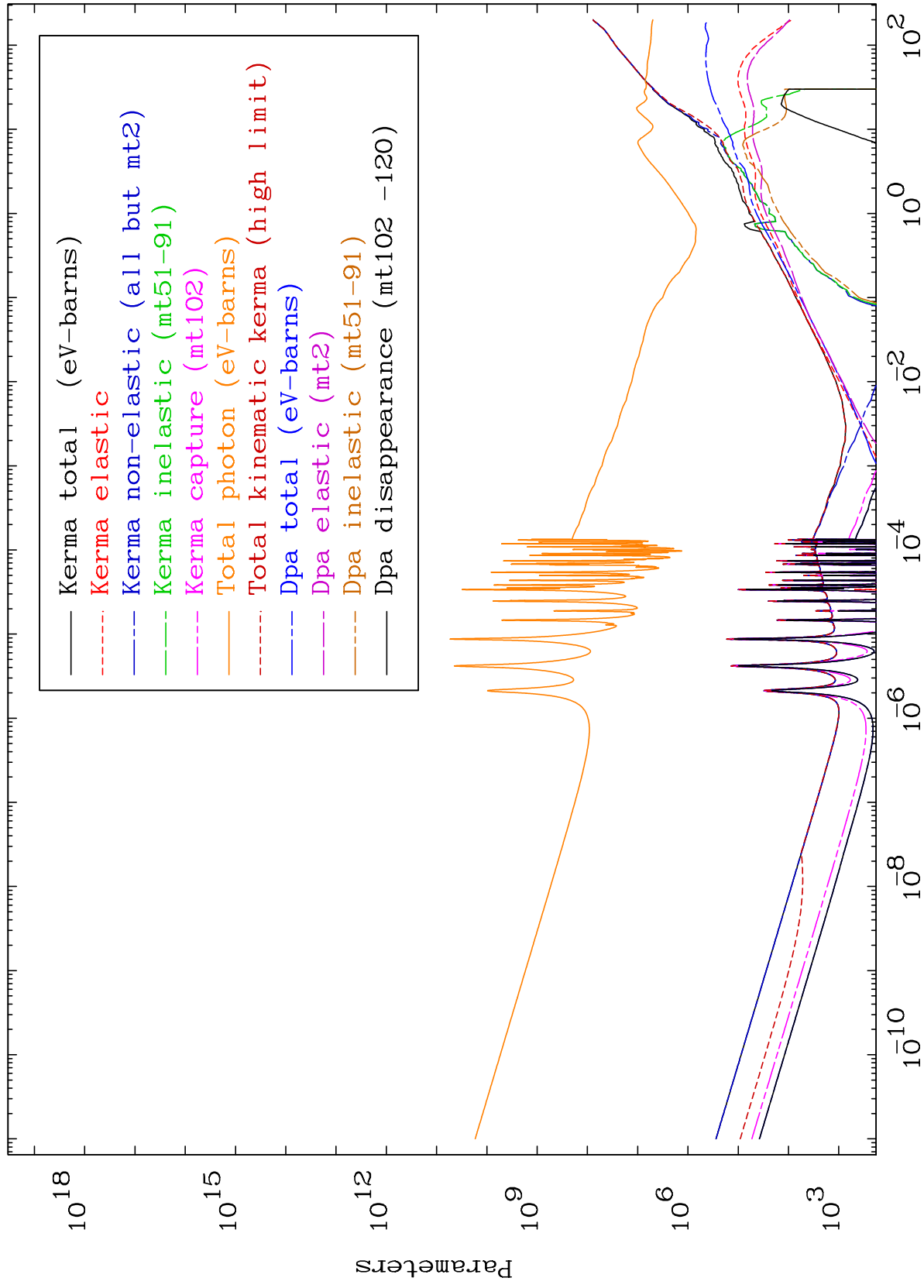
51-Sb-122



14

Incident Energy (MeV)

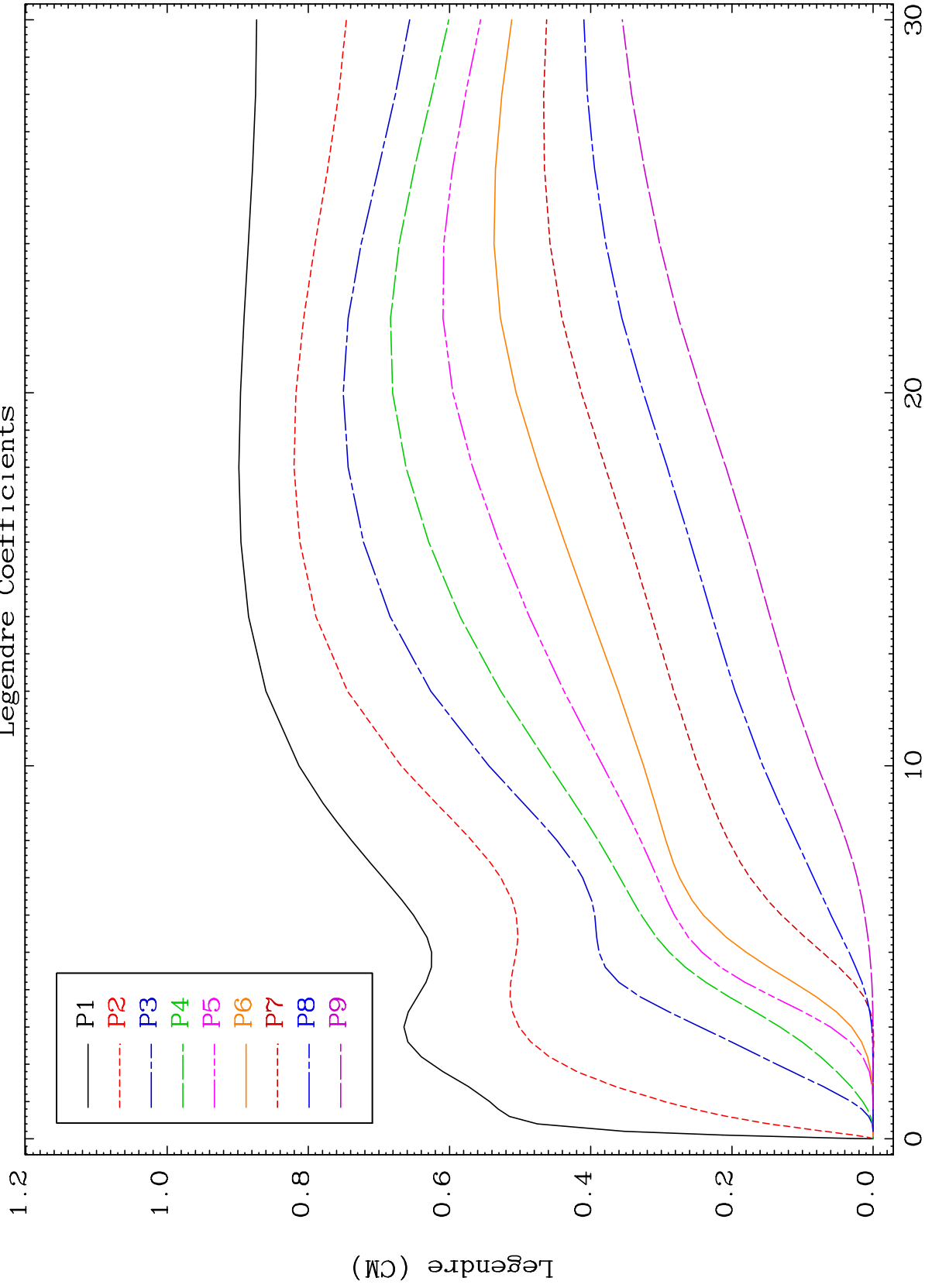
51-Sb-122



MAT 5128

Elastic Legendre Coefficients

51-Sb-122



16

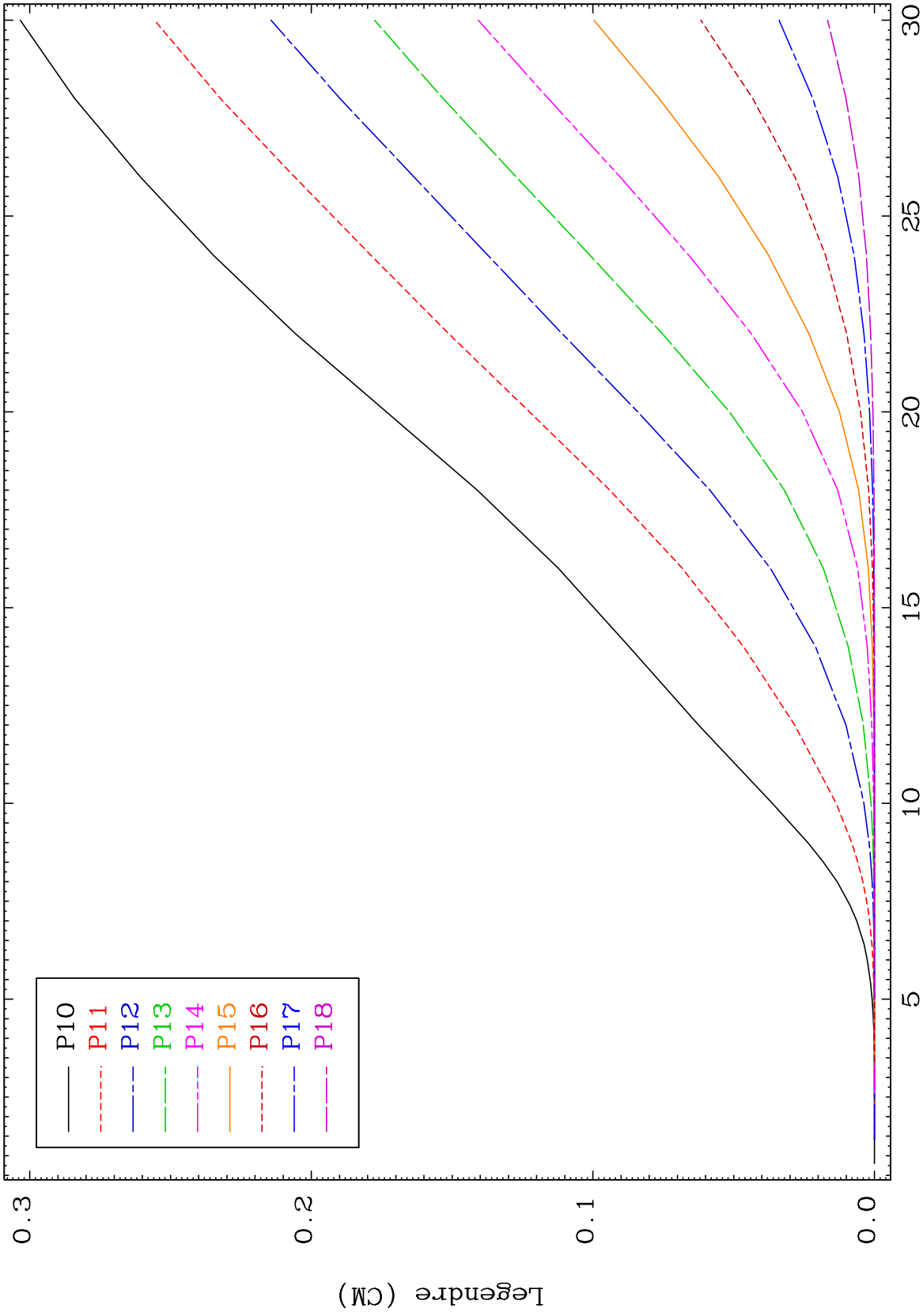
Incident Energy (MeV)

51-Sb-122

MAT 5128

Elastic Legendre Coefficients

51-Sb-122



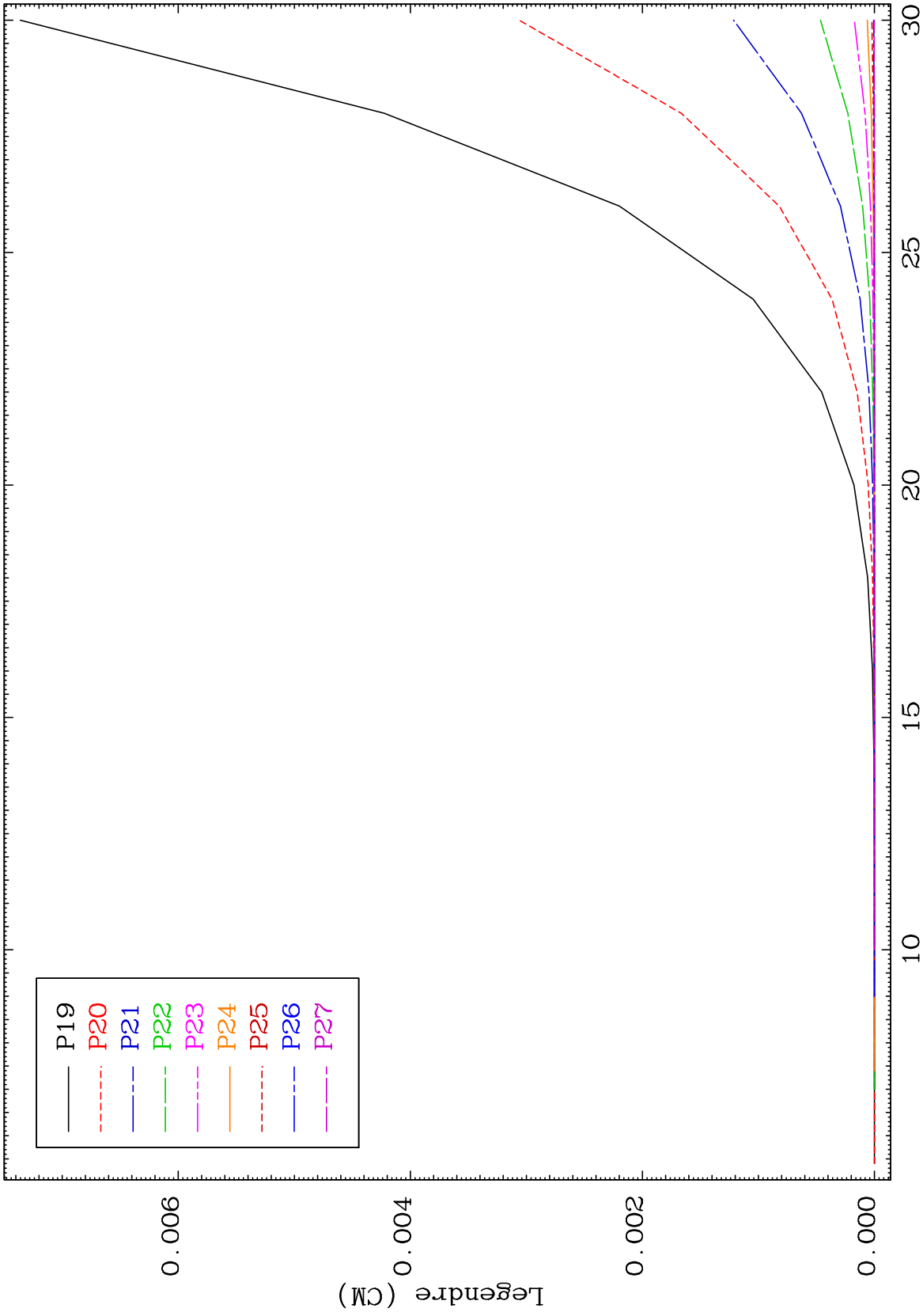
17

51-Sb-122

MAT 5128

Elastic Legendre Coefficients

51-Sb-122



18

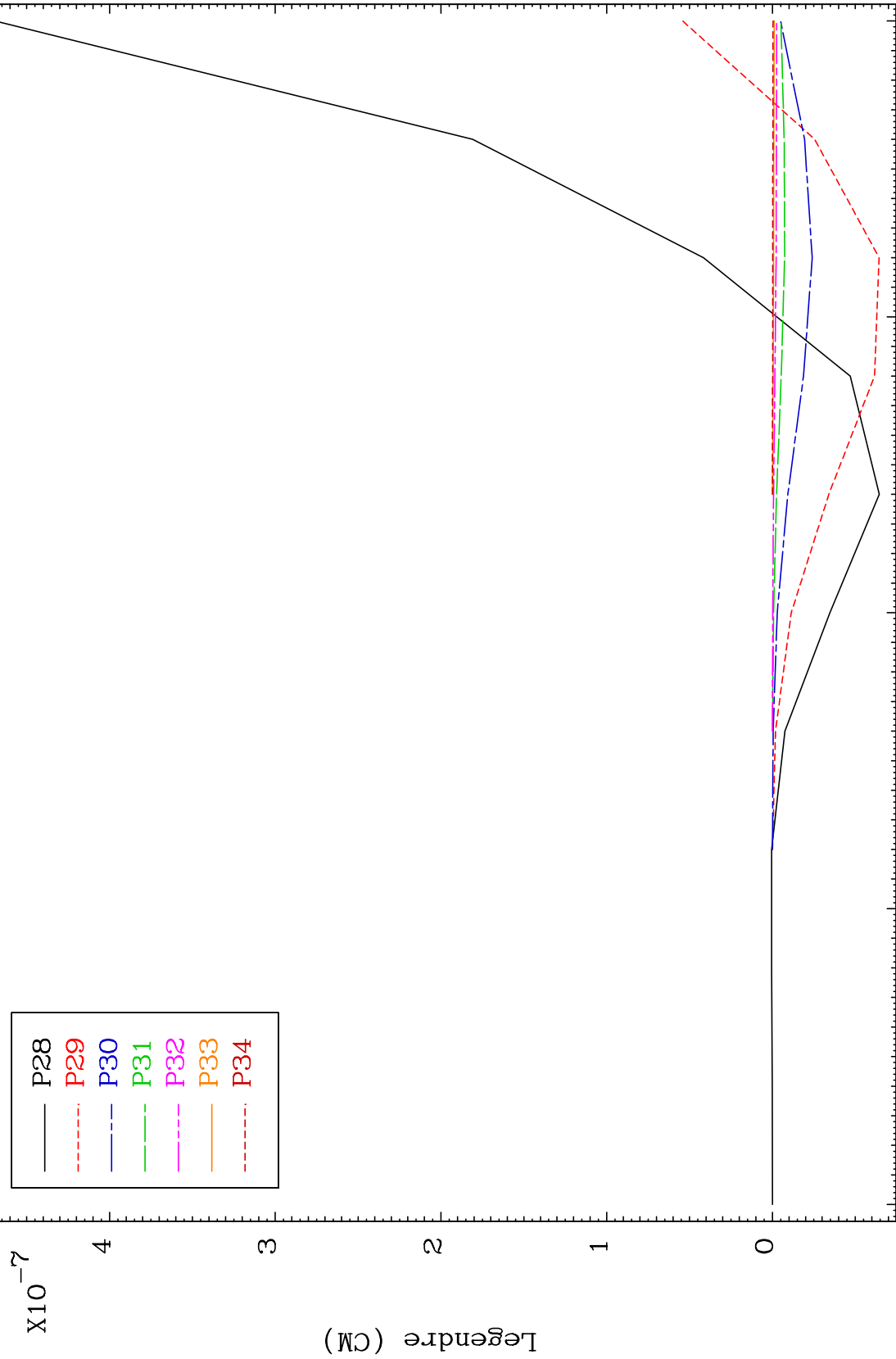
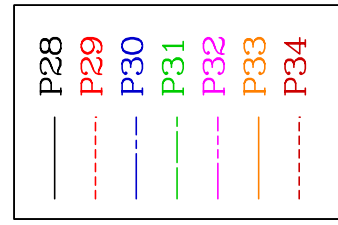
Incident Energy (MeV)

51-Sb-122

MAT 5128

Elastic Legendre Coefficients

51-Sb-122



19

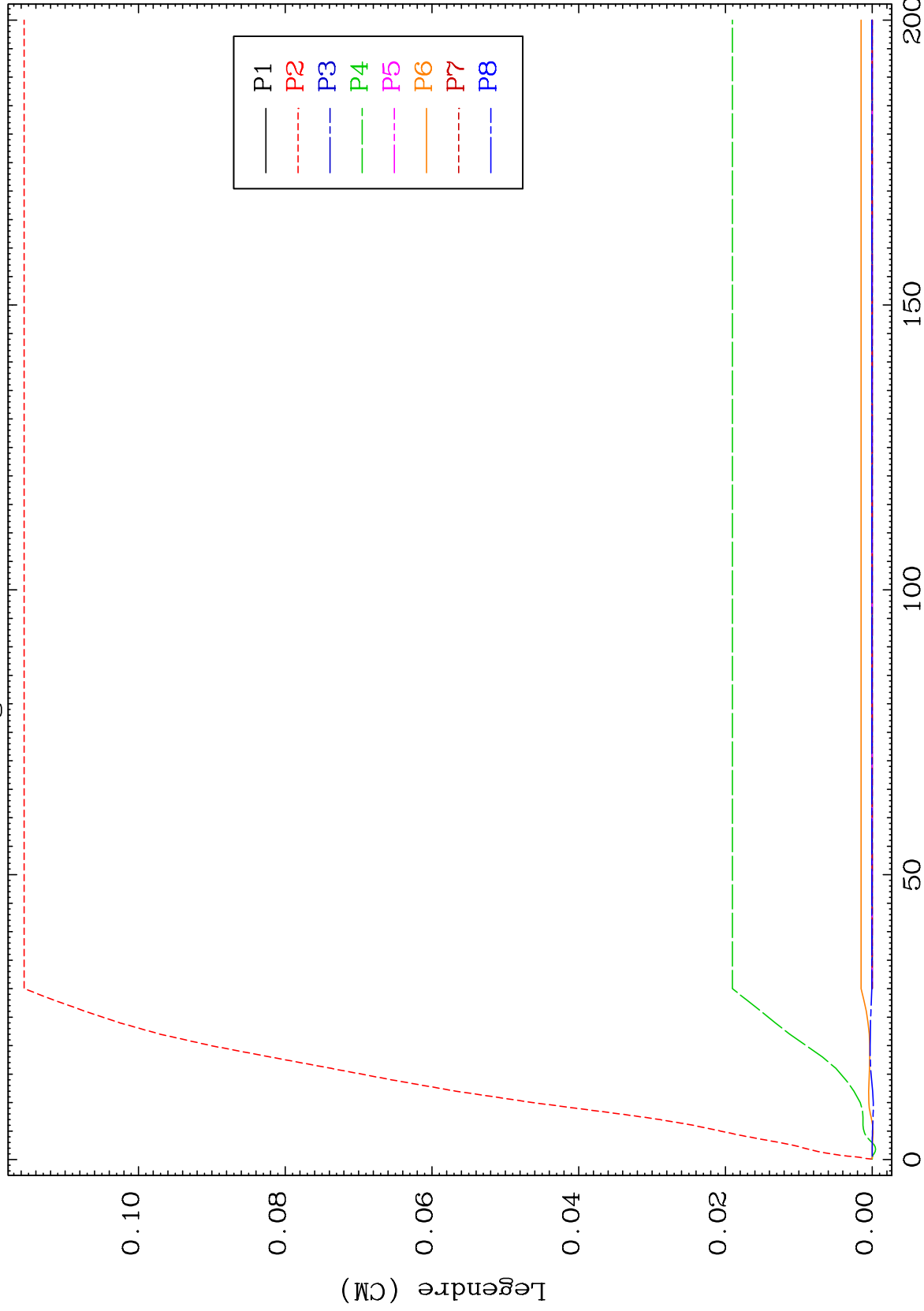
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



51-Sb-122

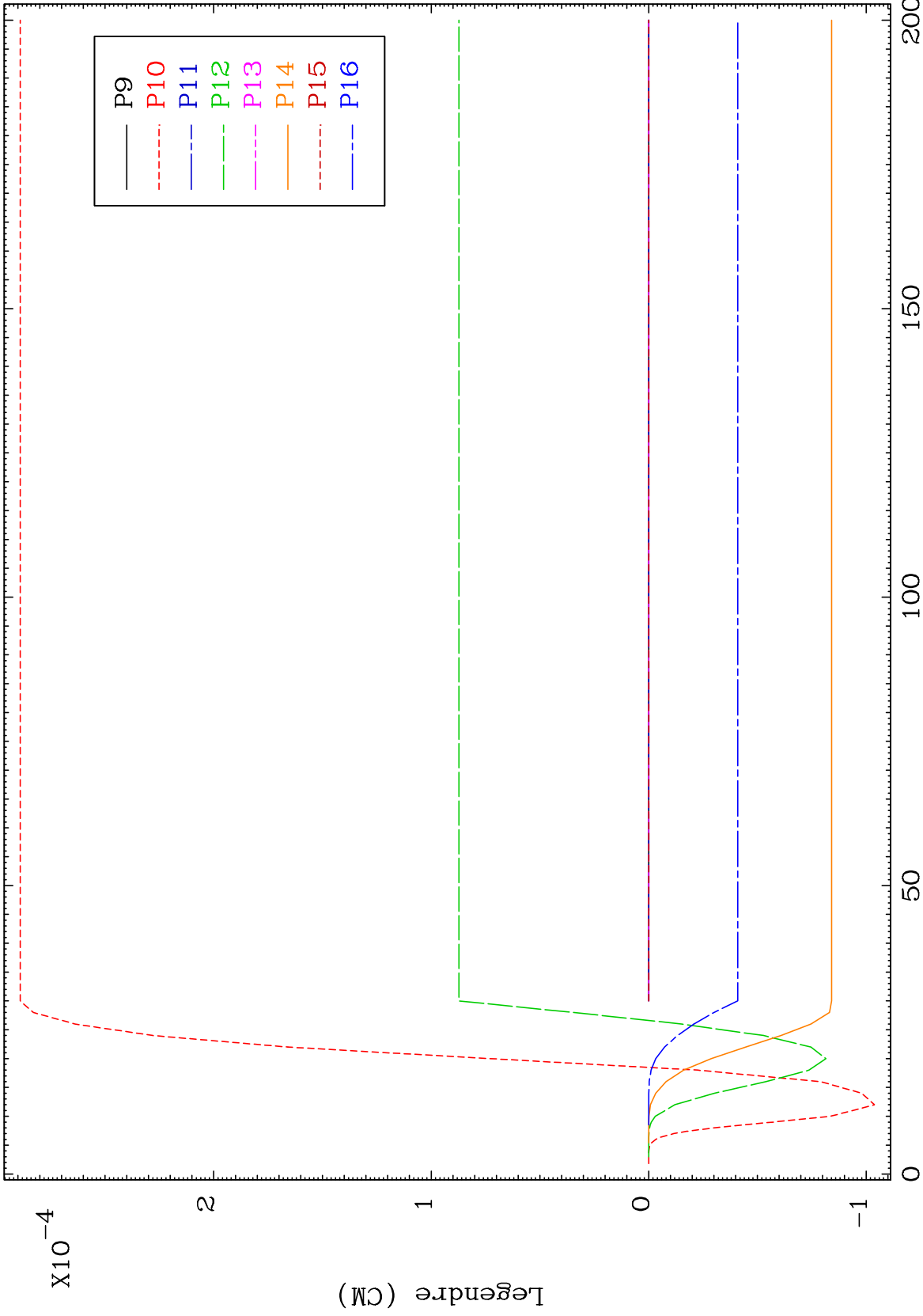
Incident Energy (MeV)

Legendre (CM)

MAT 5128

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

51-Sb-122



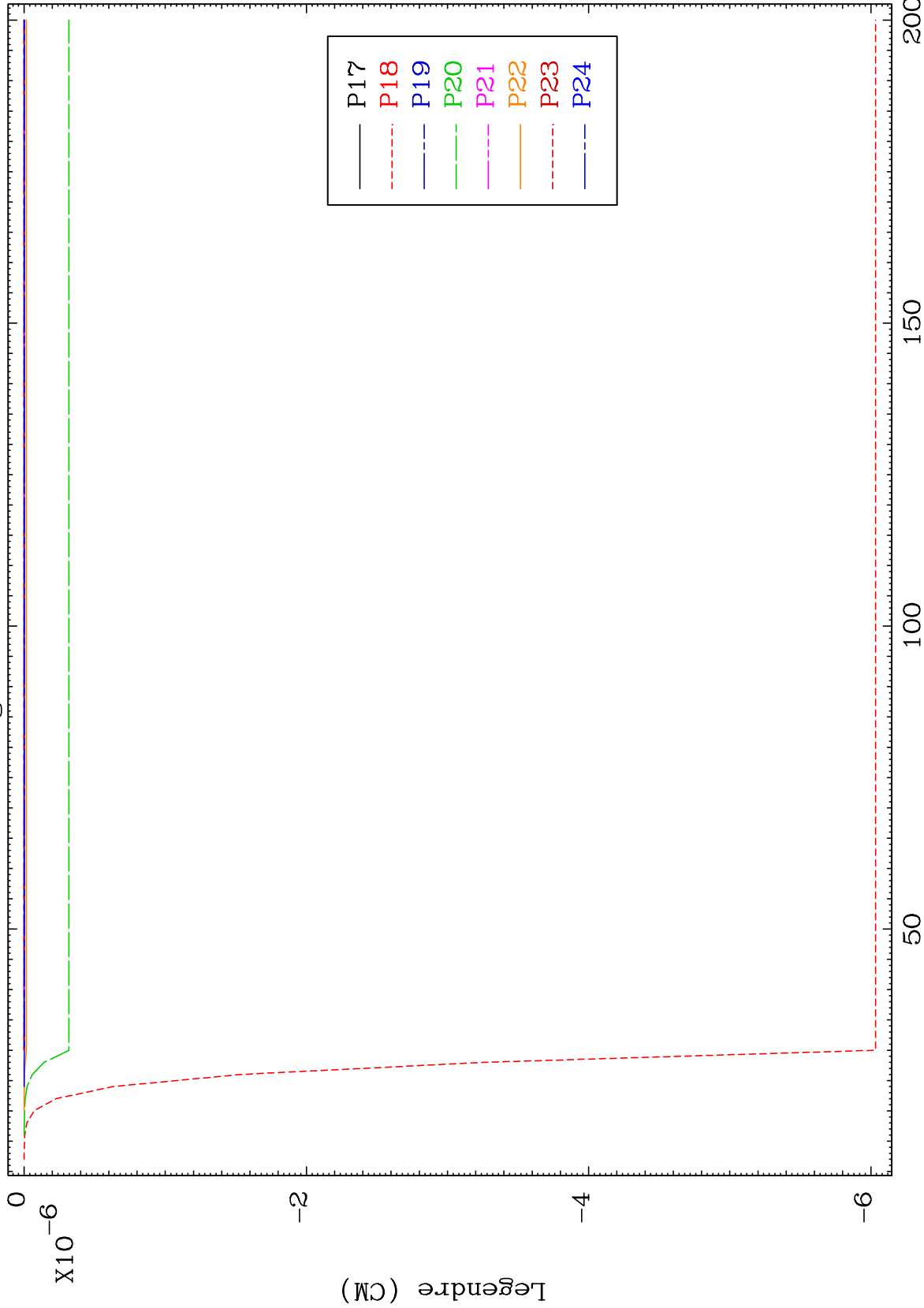
21

51-Sb-122

MAT 5128

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

51-Sb-122



22

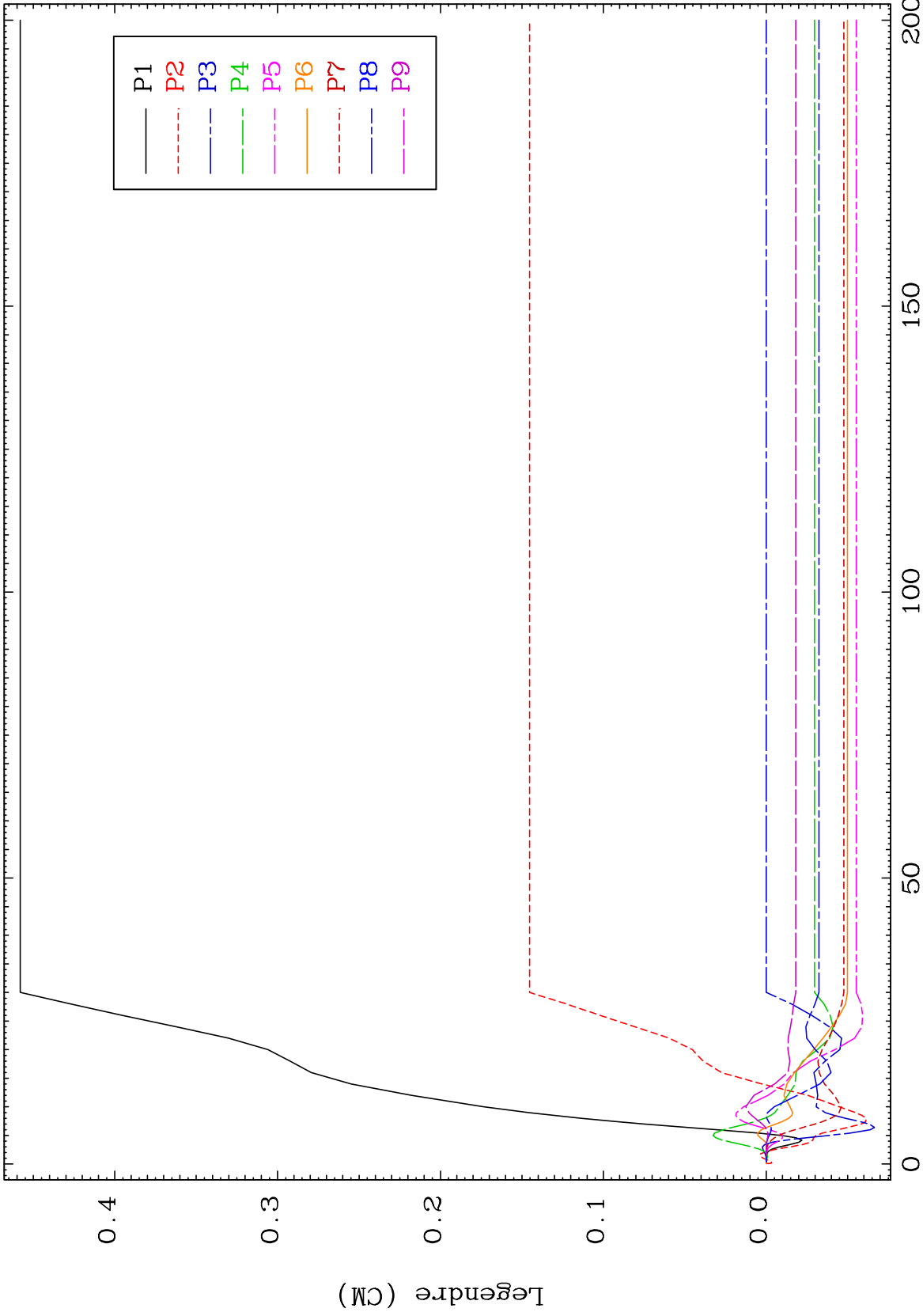
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



23

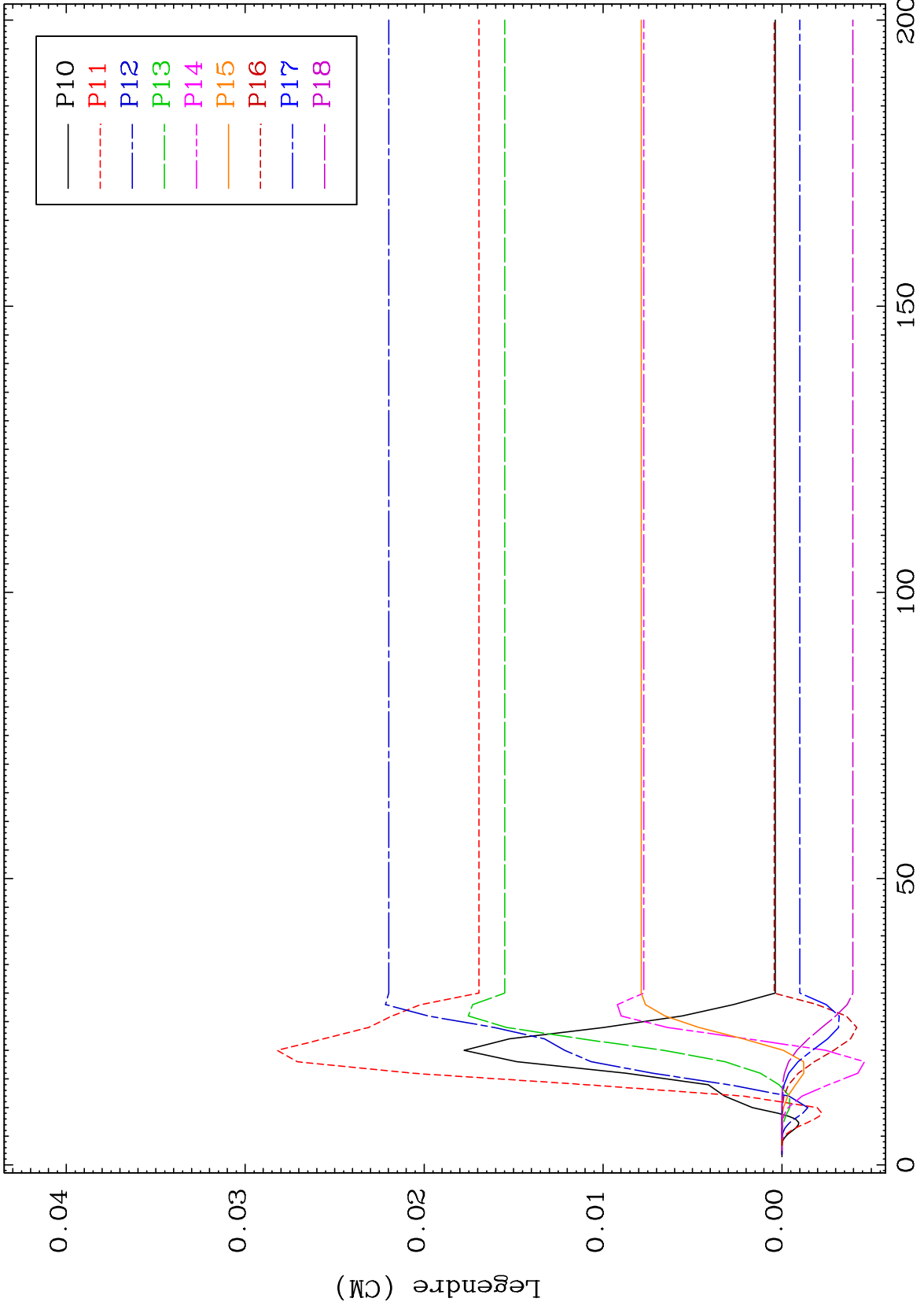
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



24

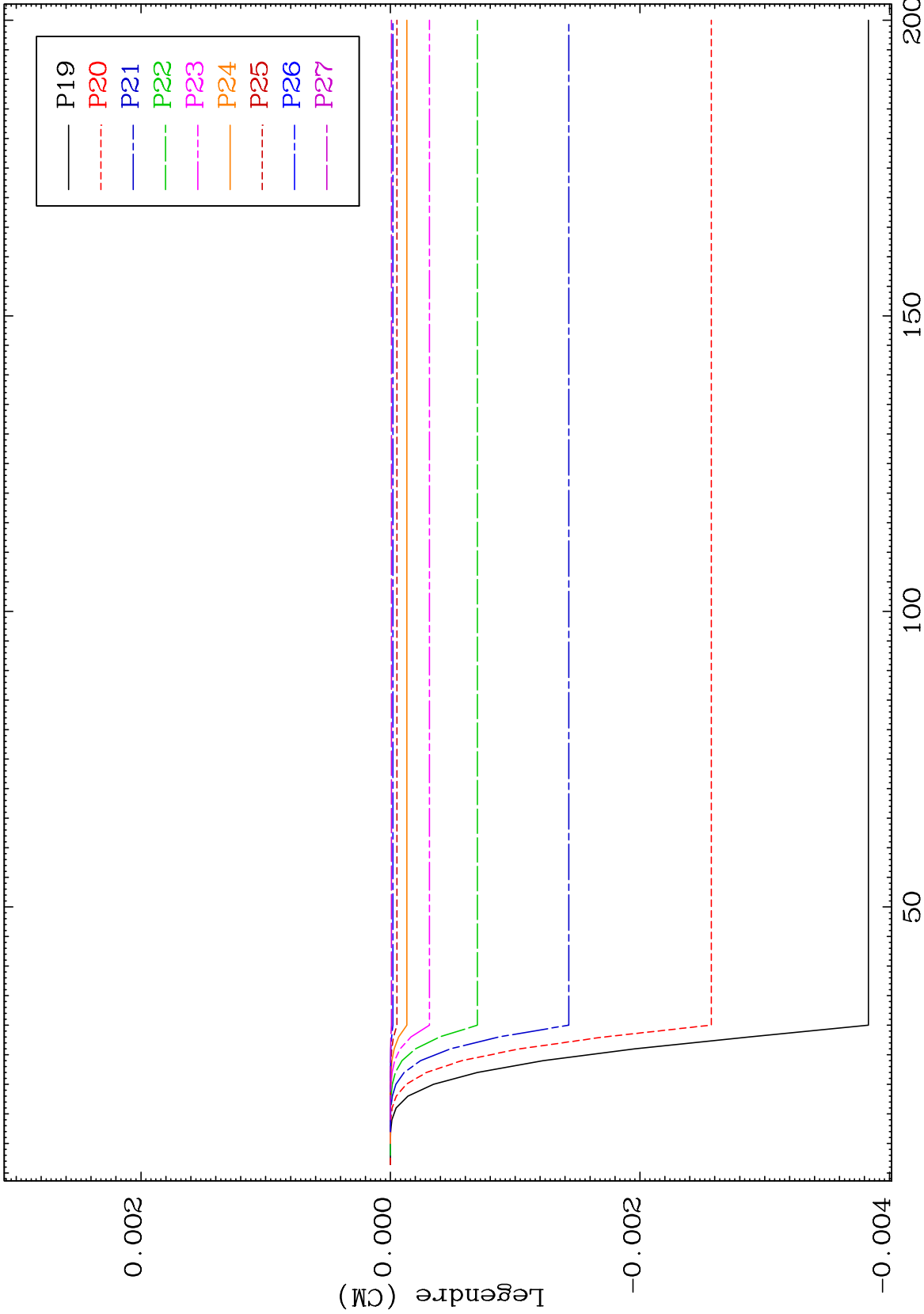
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



25

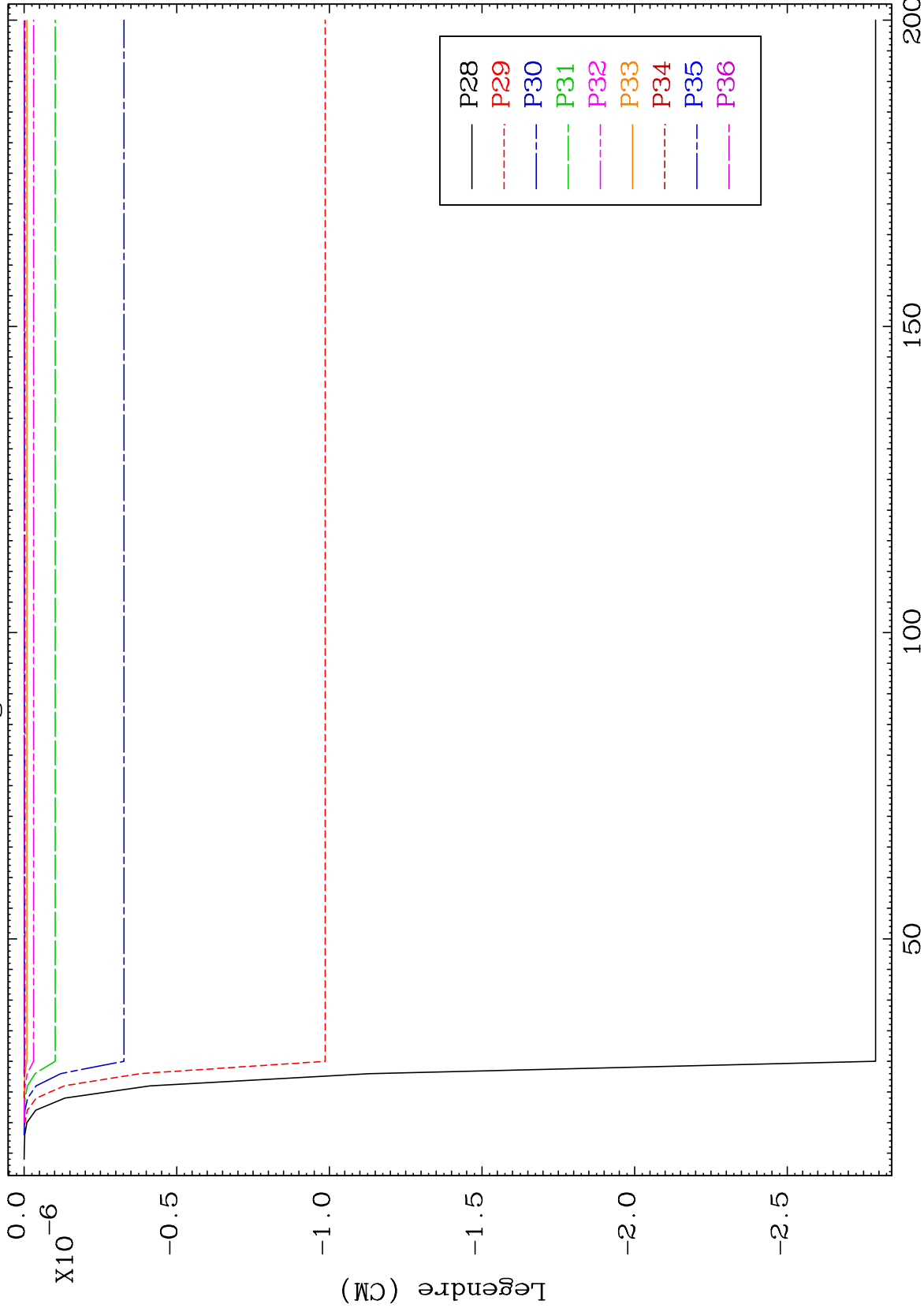
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122

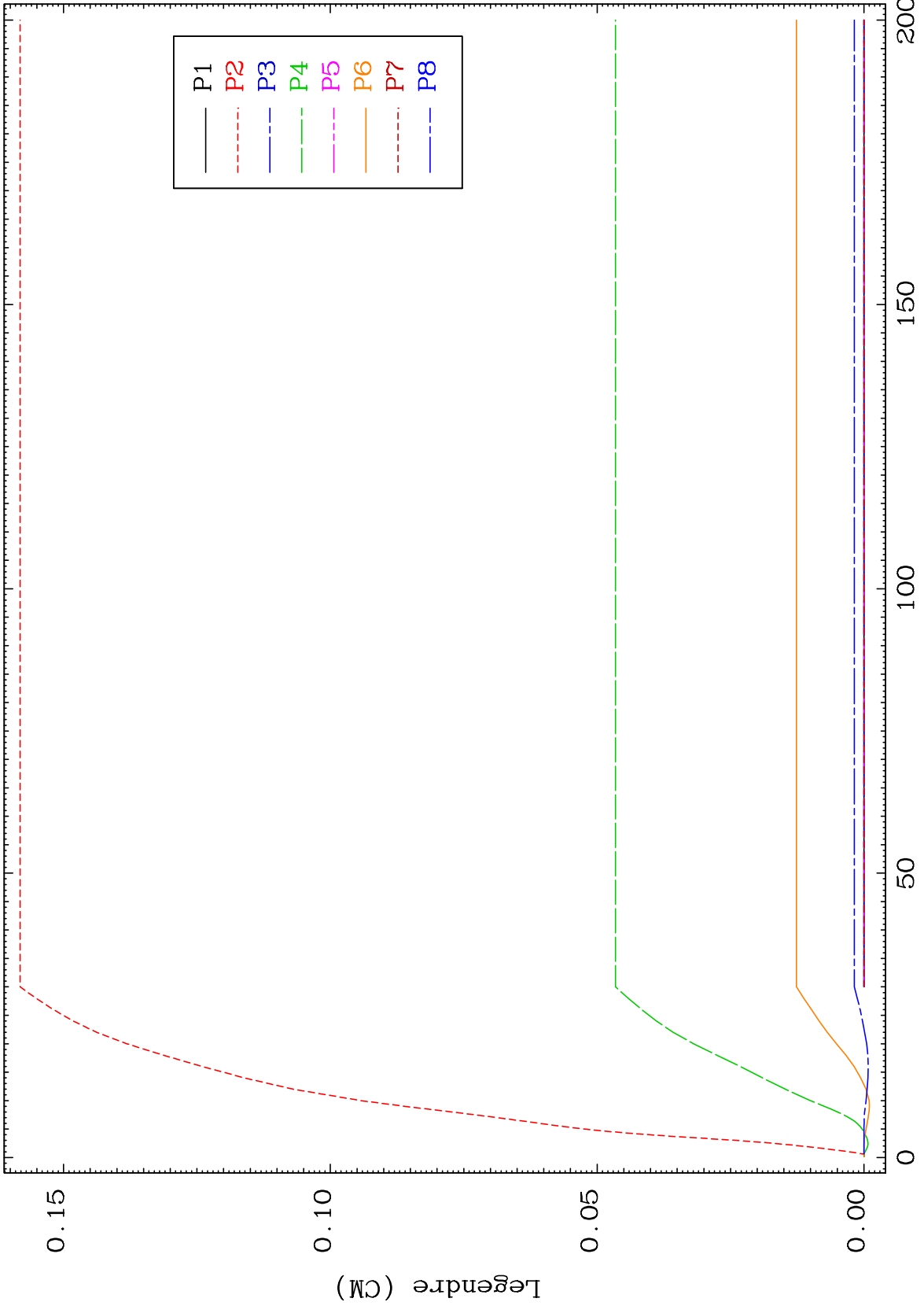


26

Incident Energy (MeV)

51-Sb-122

MAT 5128 MT= 53 (n,n') Level Legendre Coefficients 51-Sb-122

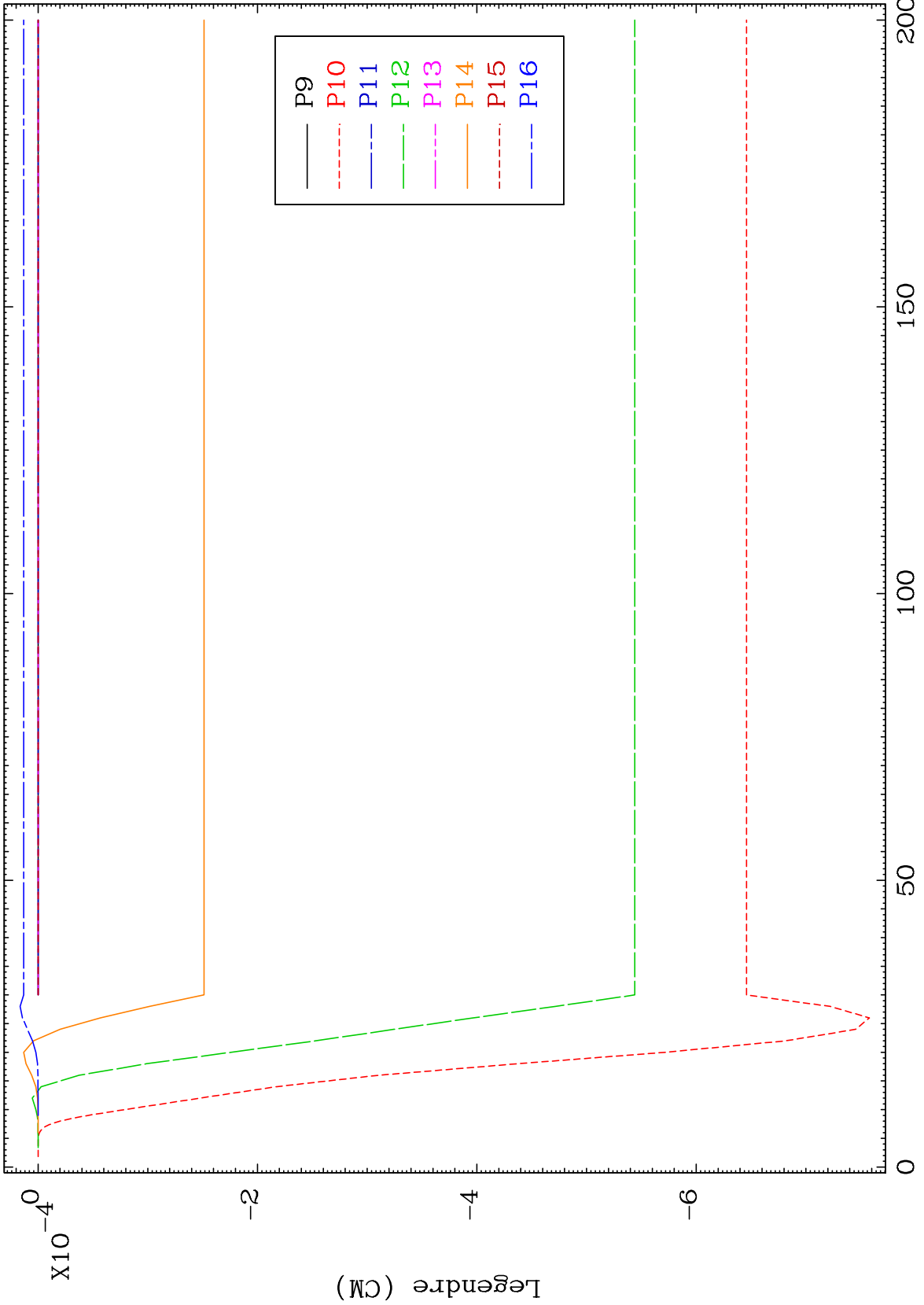


Legendre (CM) Incident Energy (MeV) 51-Sb-122

MAT 5128

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

51-Sb-122



28

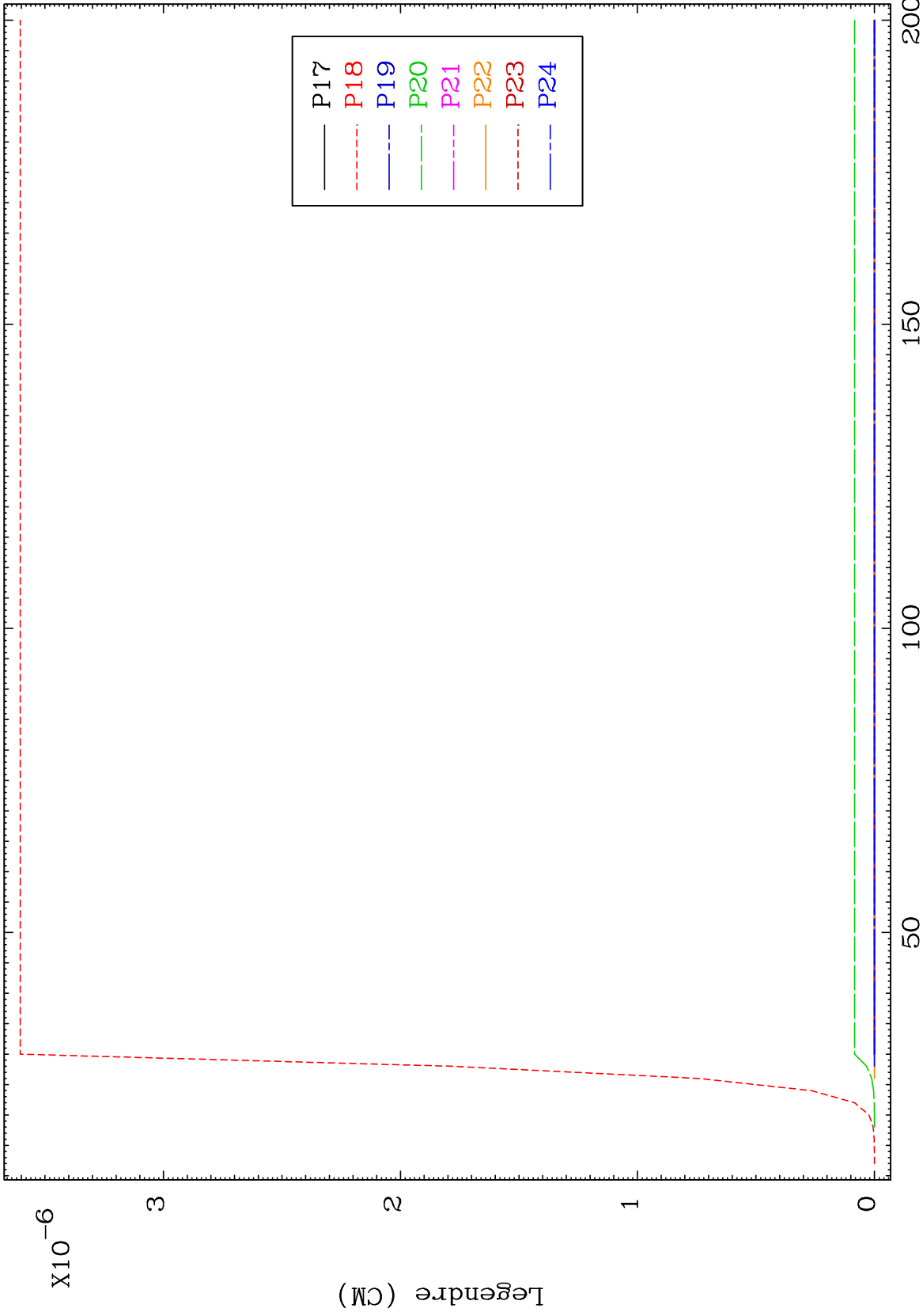
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



29

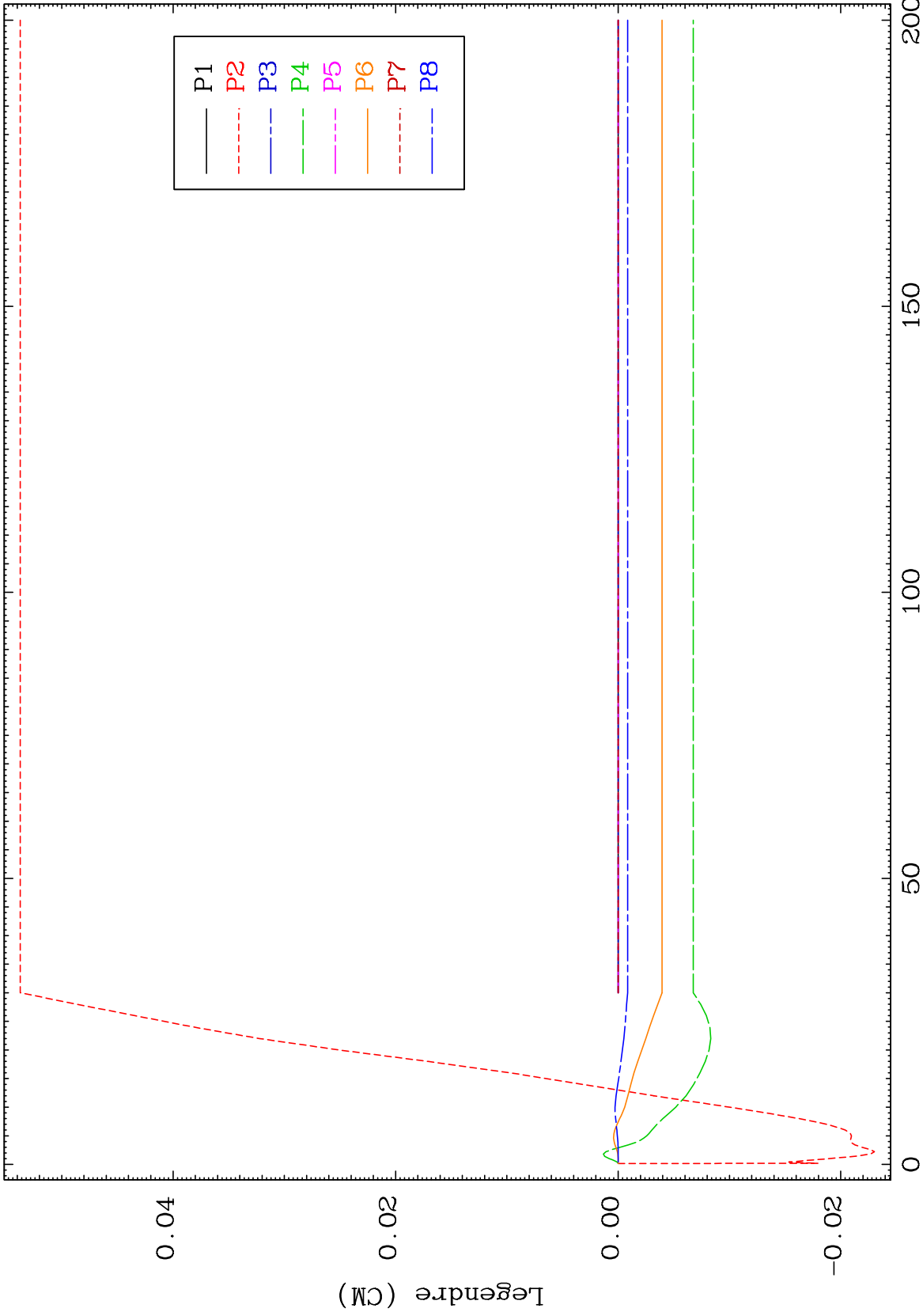
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



51-Sb-122

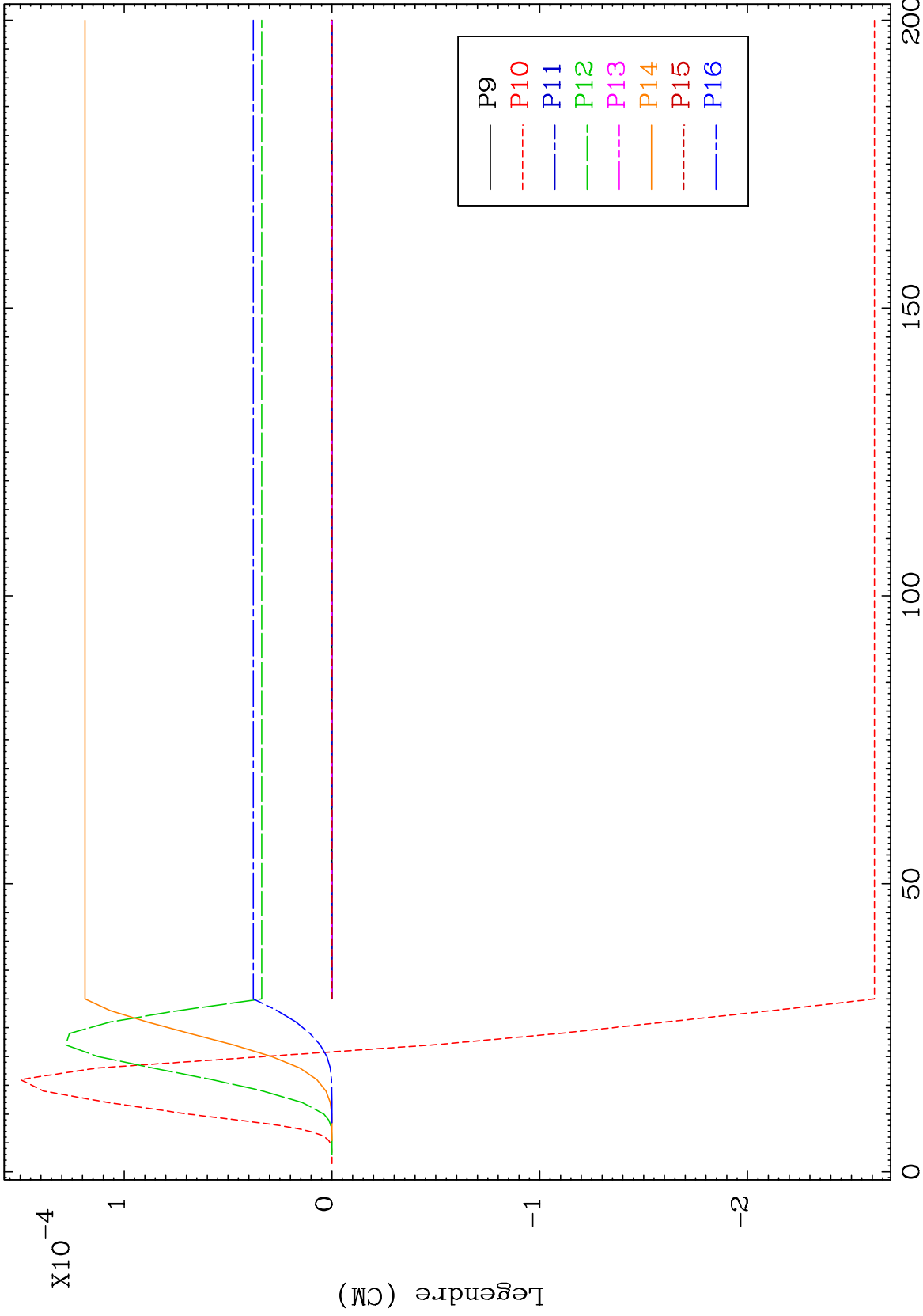
Incident Energy (MeV)

30

MAT 5128

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

51-Sb-122



31

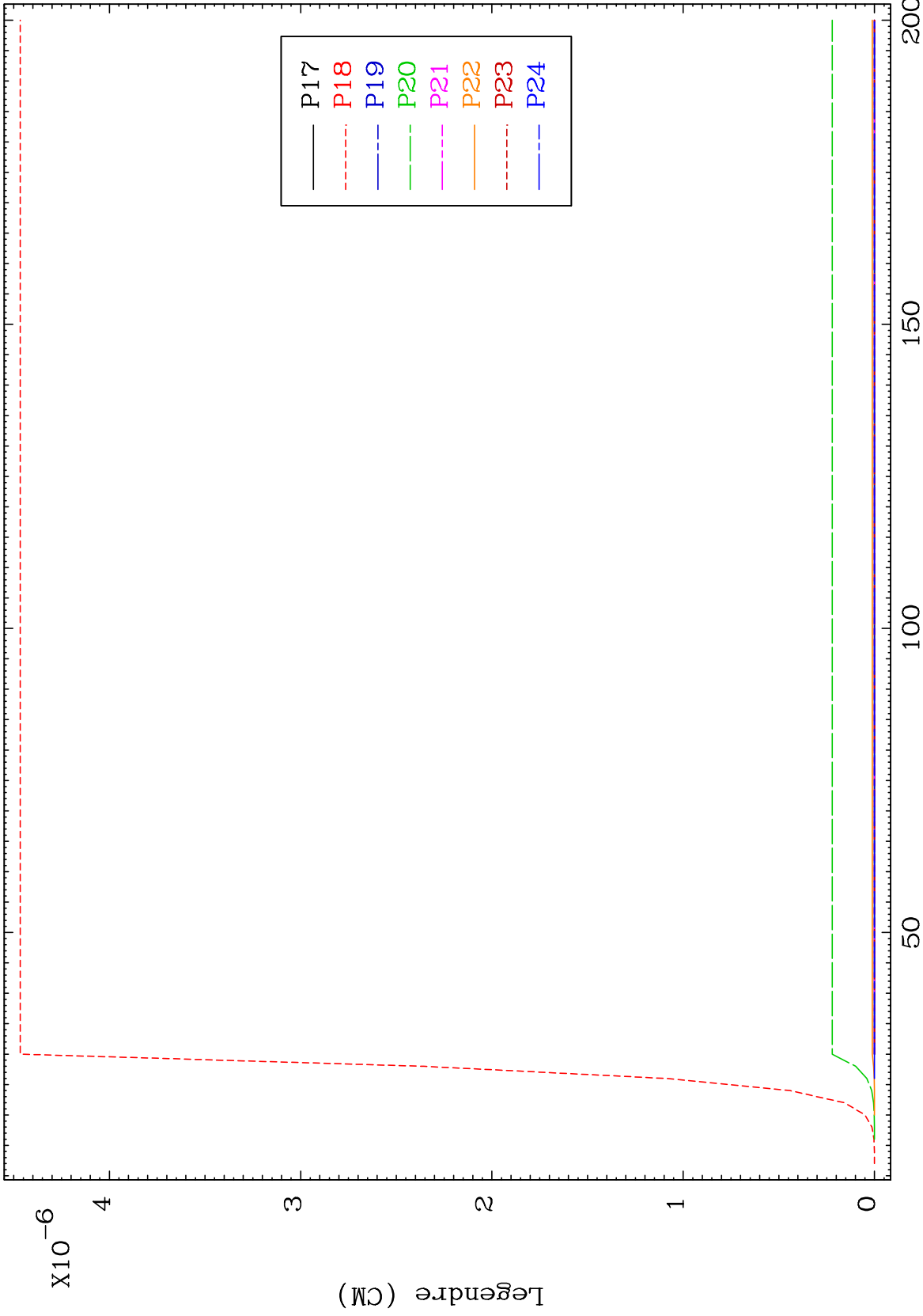
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



32

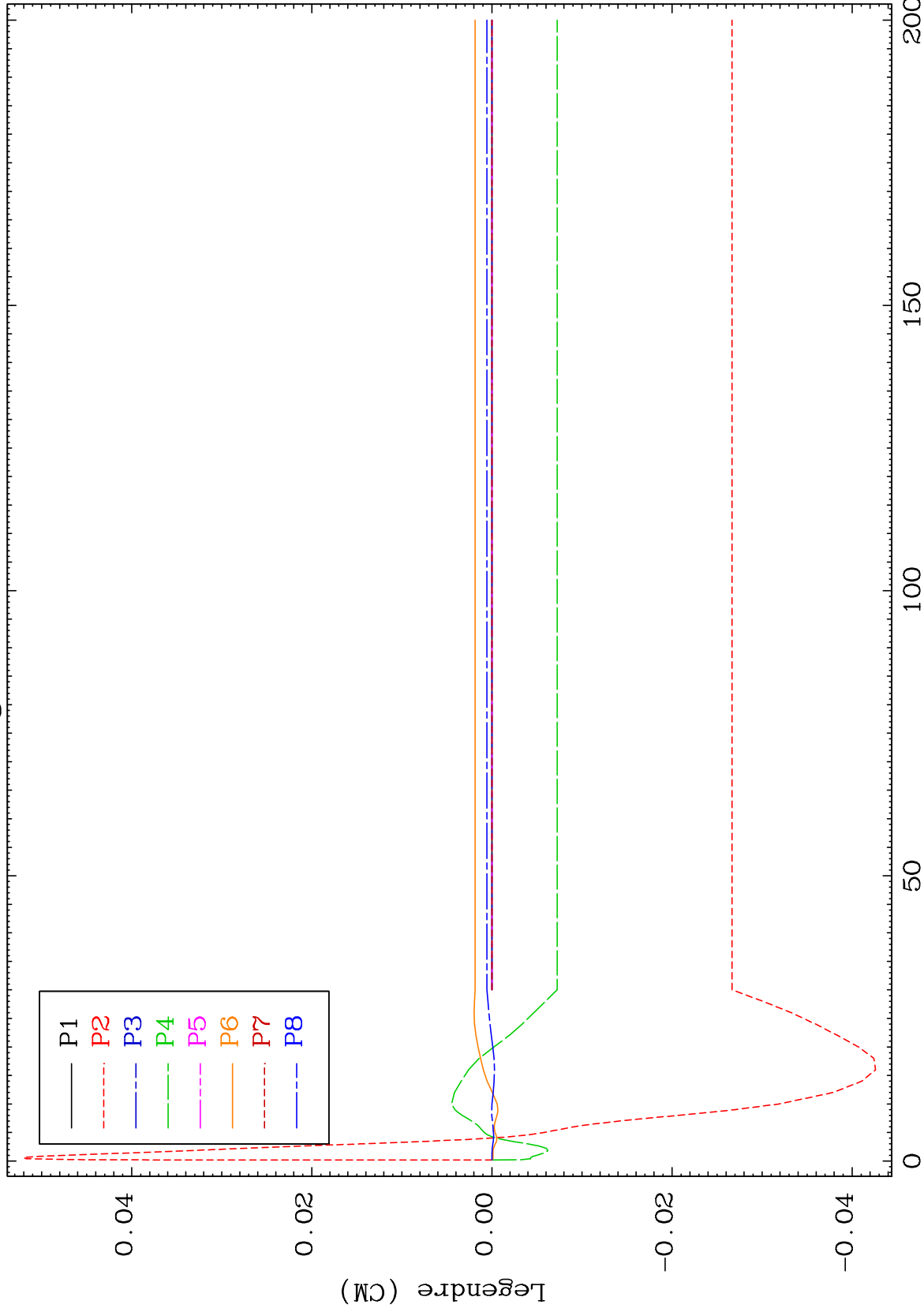
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



33

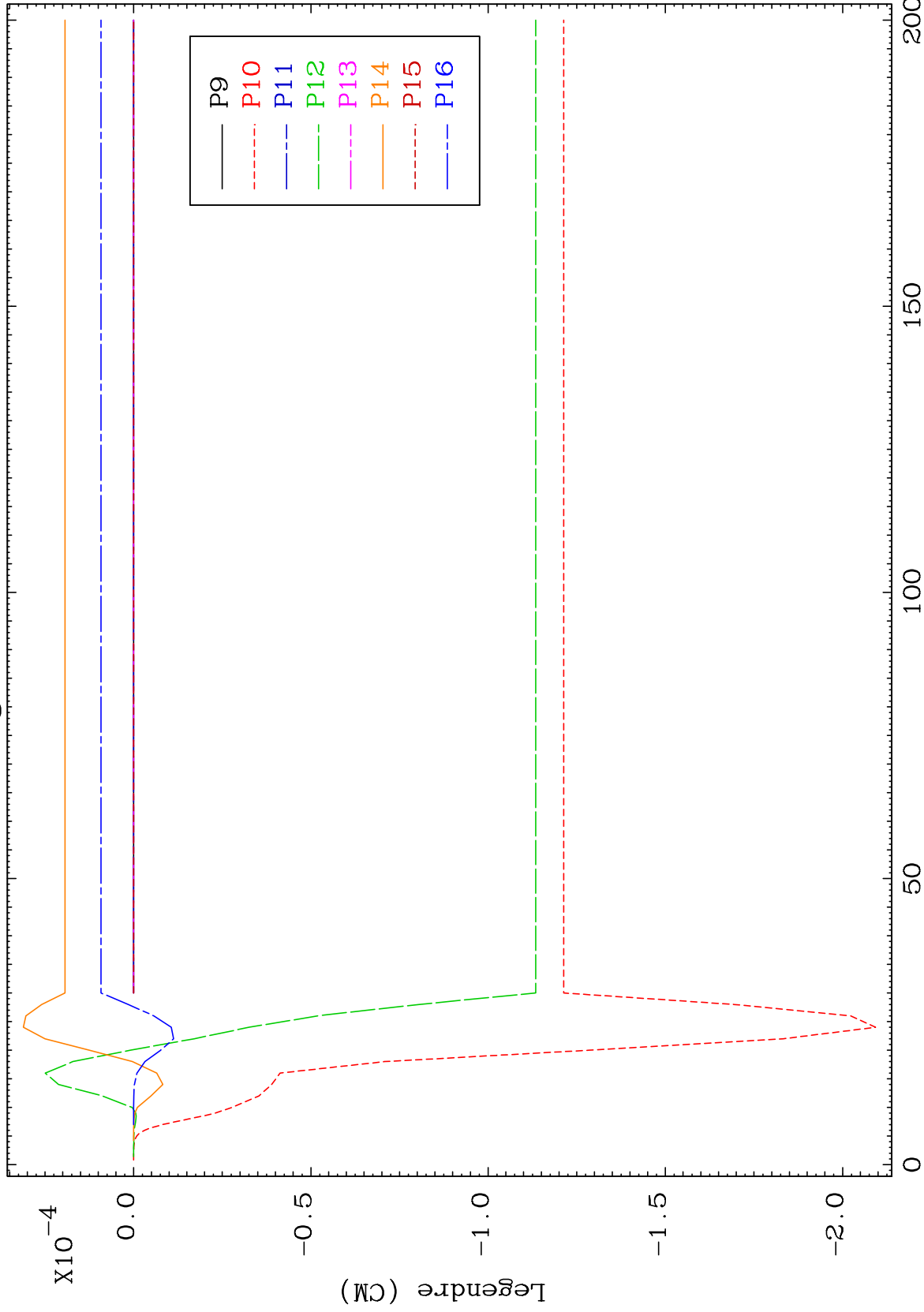
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



34

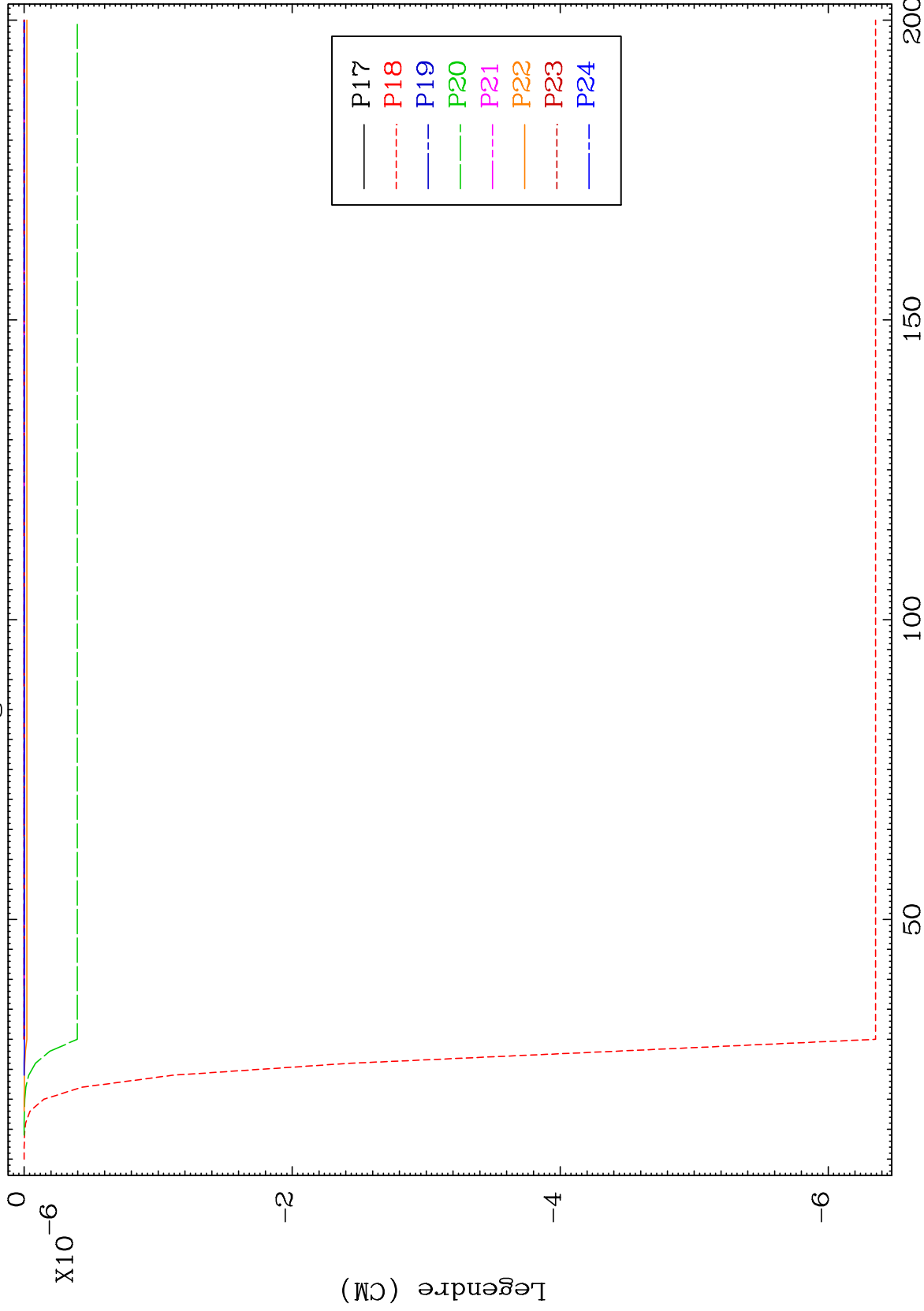
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



35

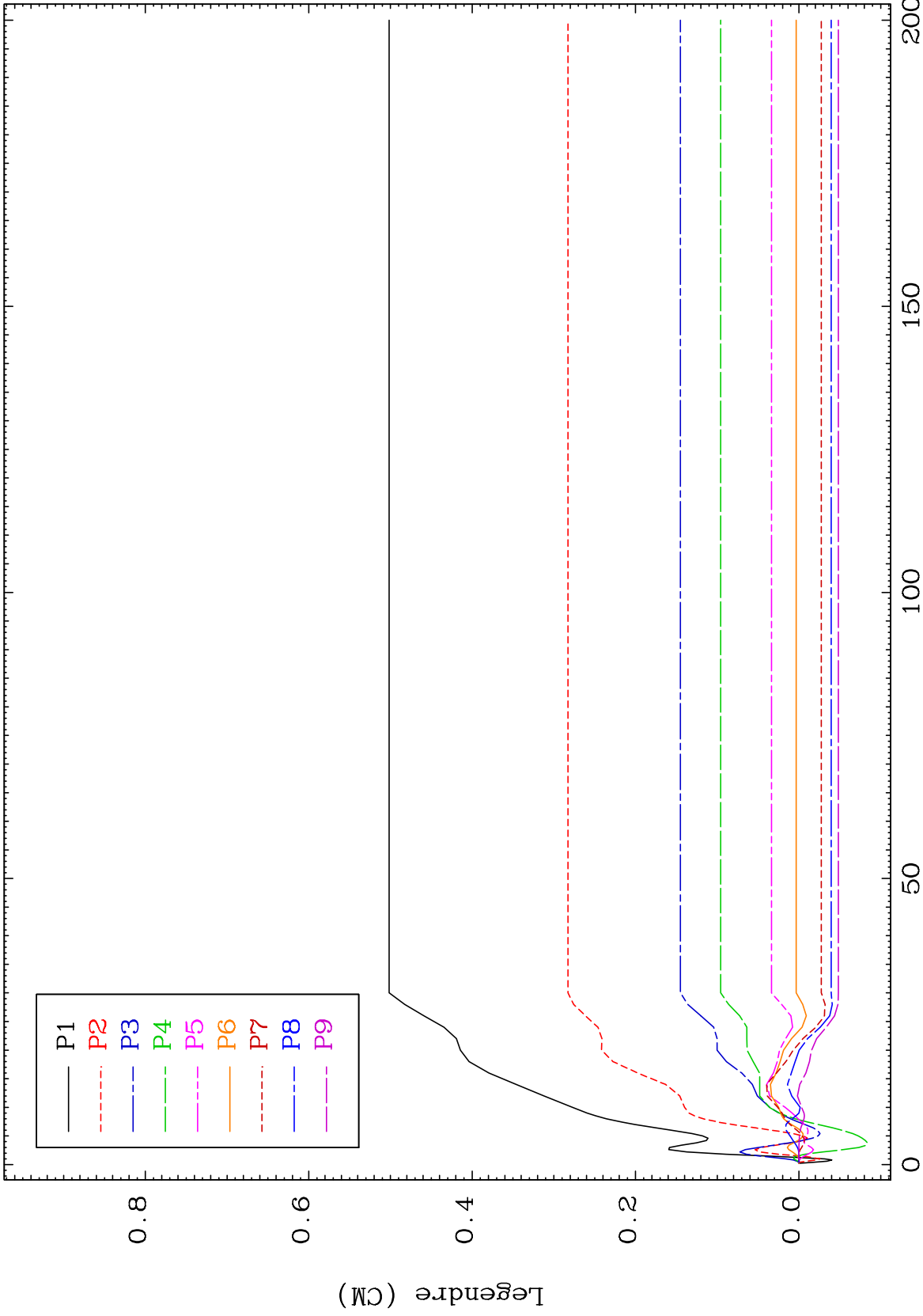
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



36

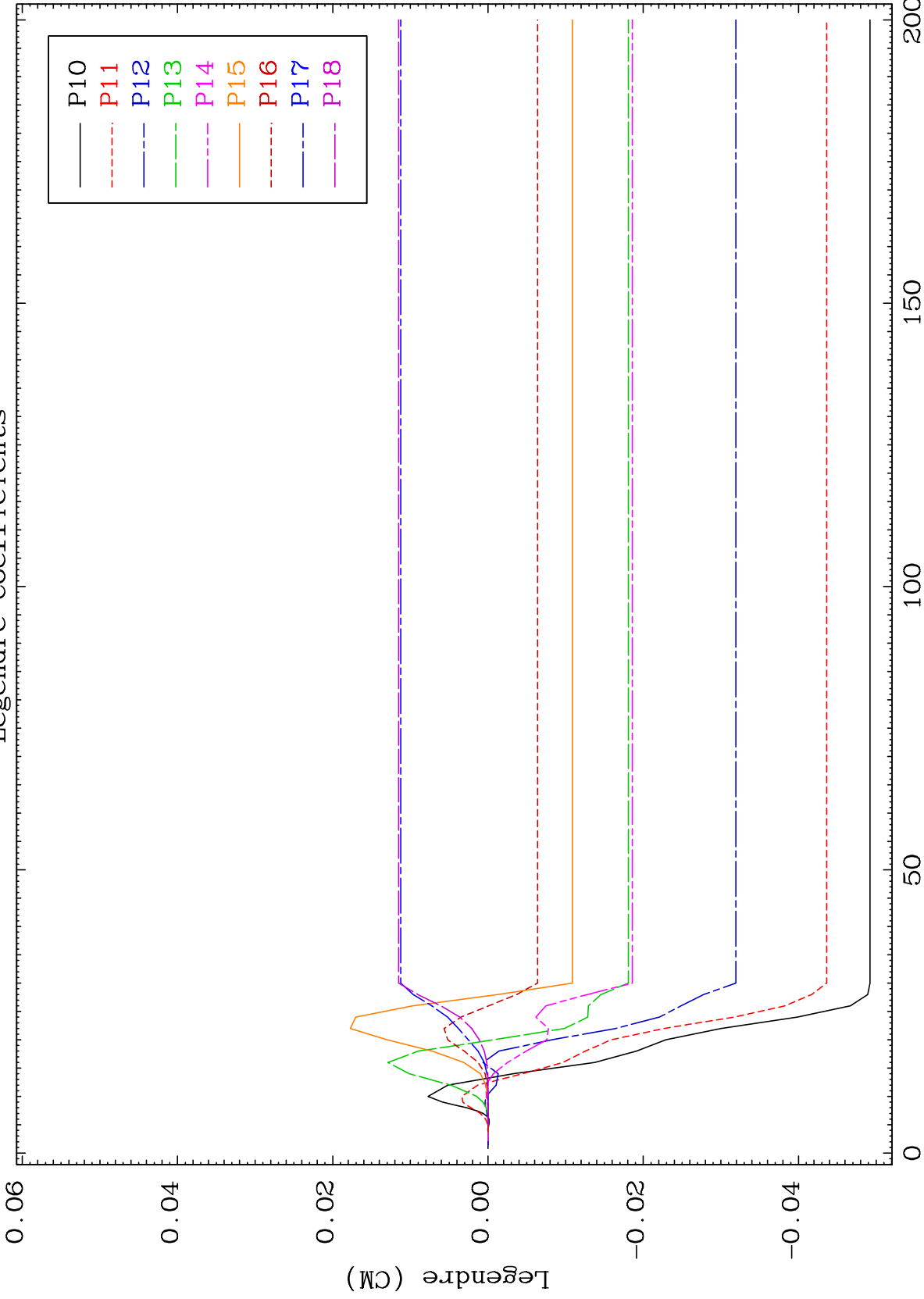
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122

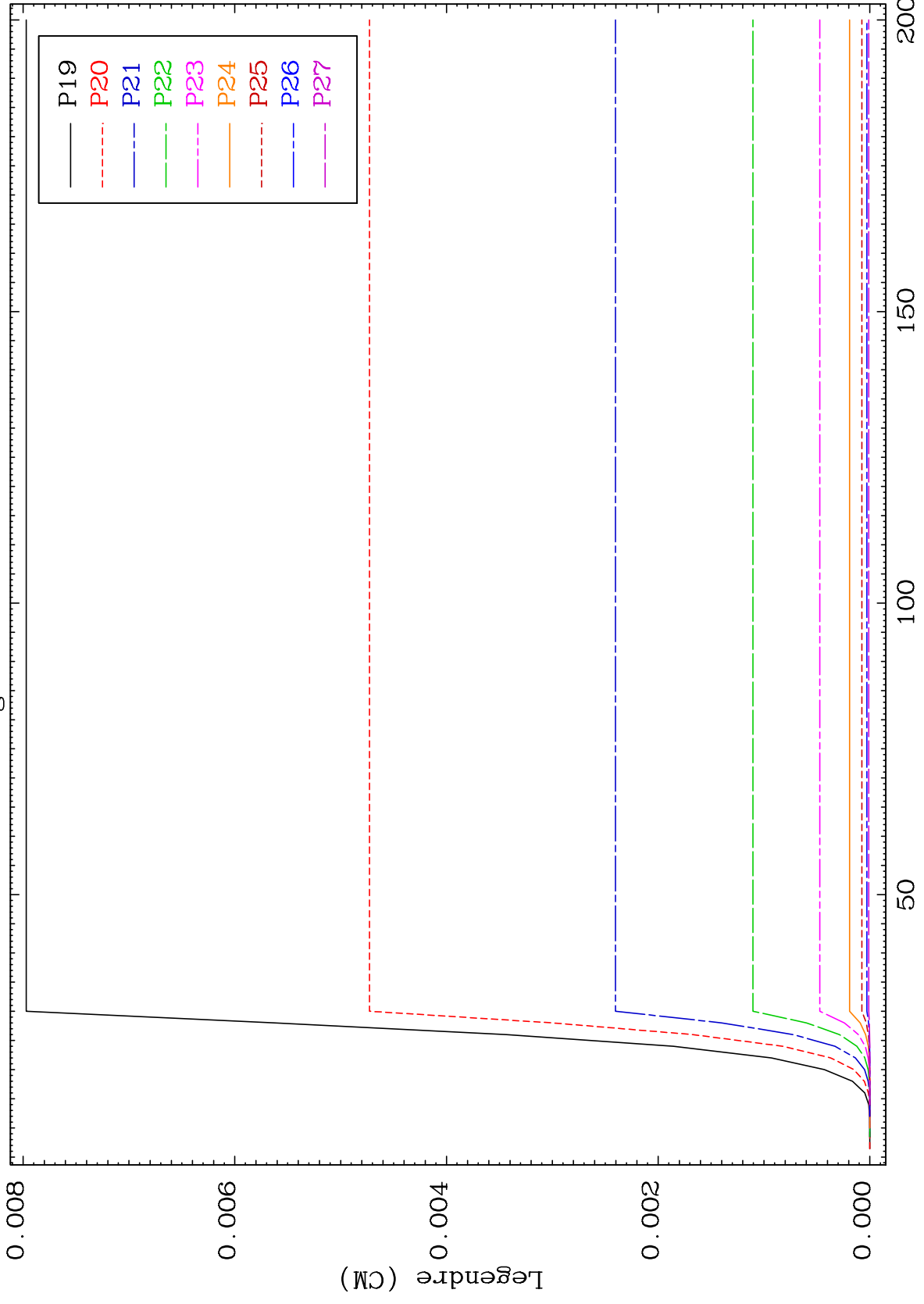


37

Incident Energy (MeV)

51-Sb-122

MAT 5128 MT= 56 (n,n') Level Legendre Coefficients 51-Sb-122

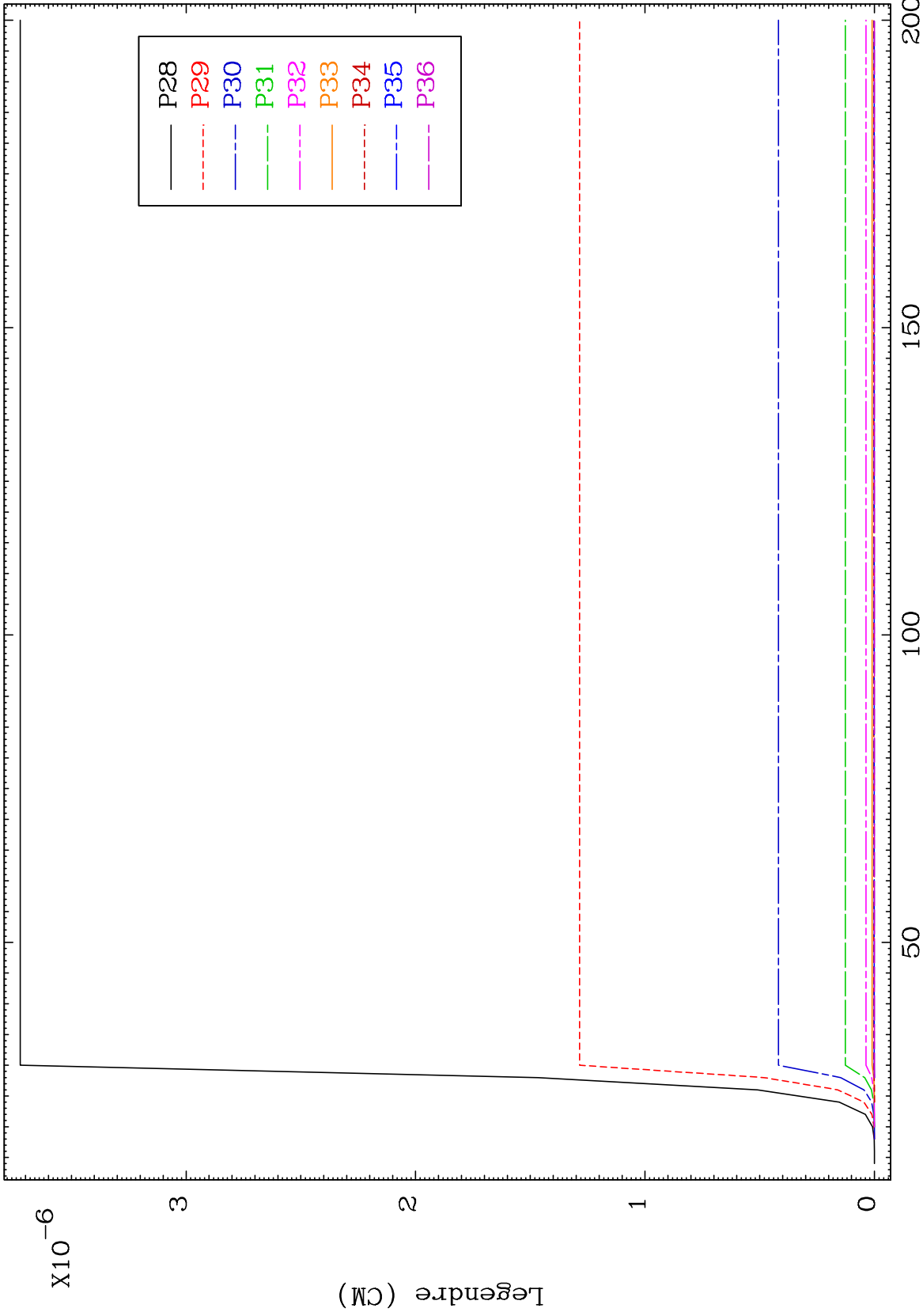


38 51-Sb-122

MAT 5128

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

51-Sb-122



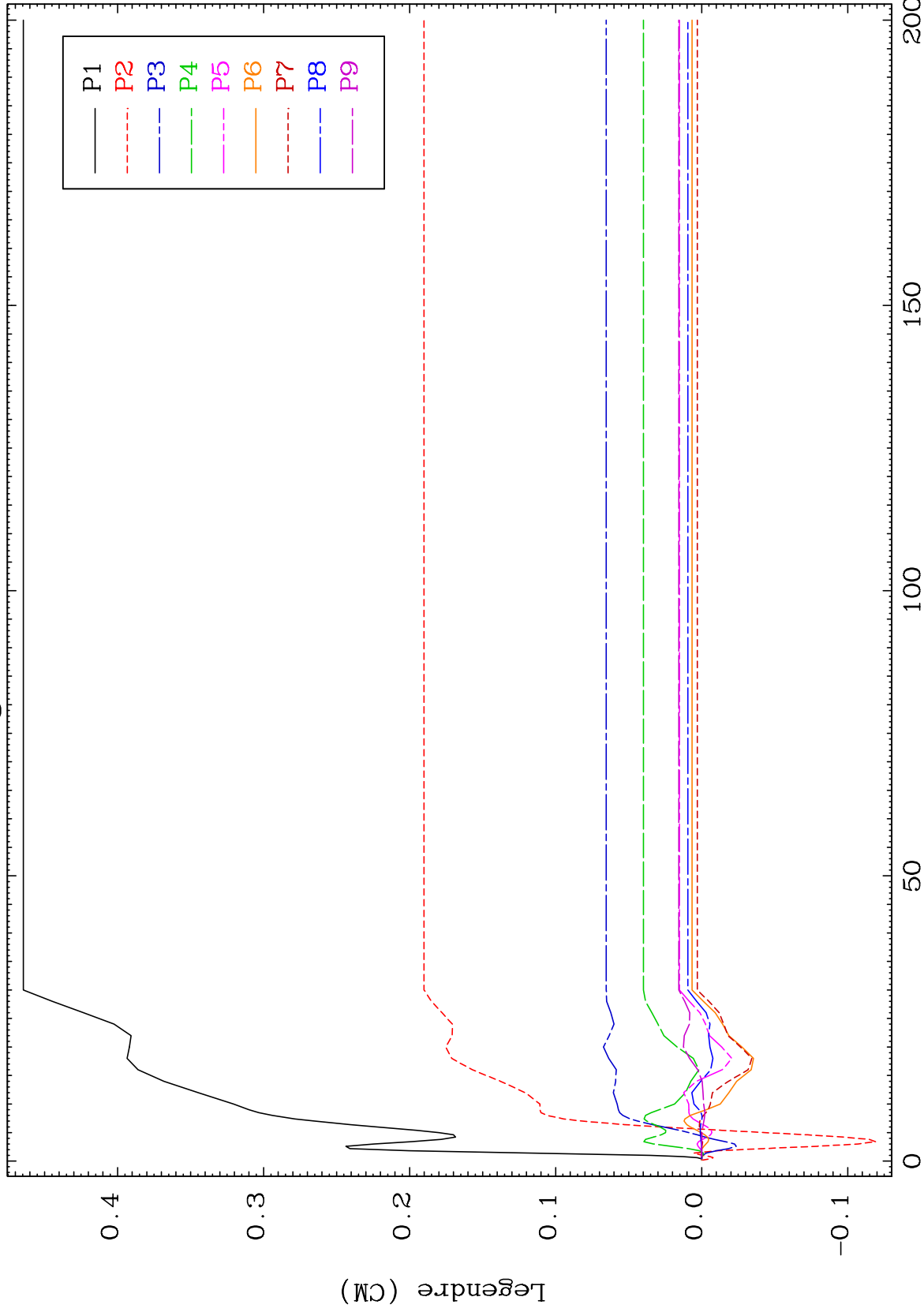
39

51-Sb-122

MAT 5128

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

51-Sb-122



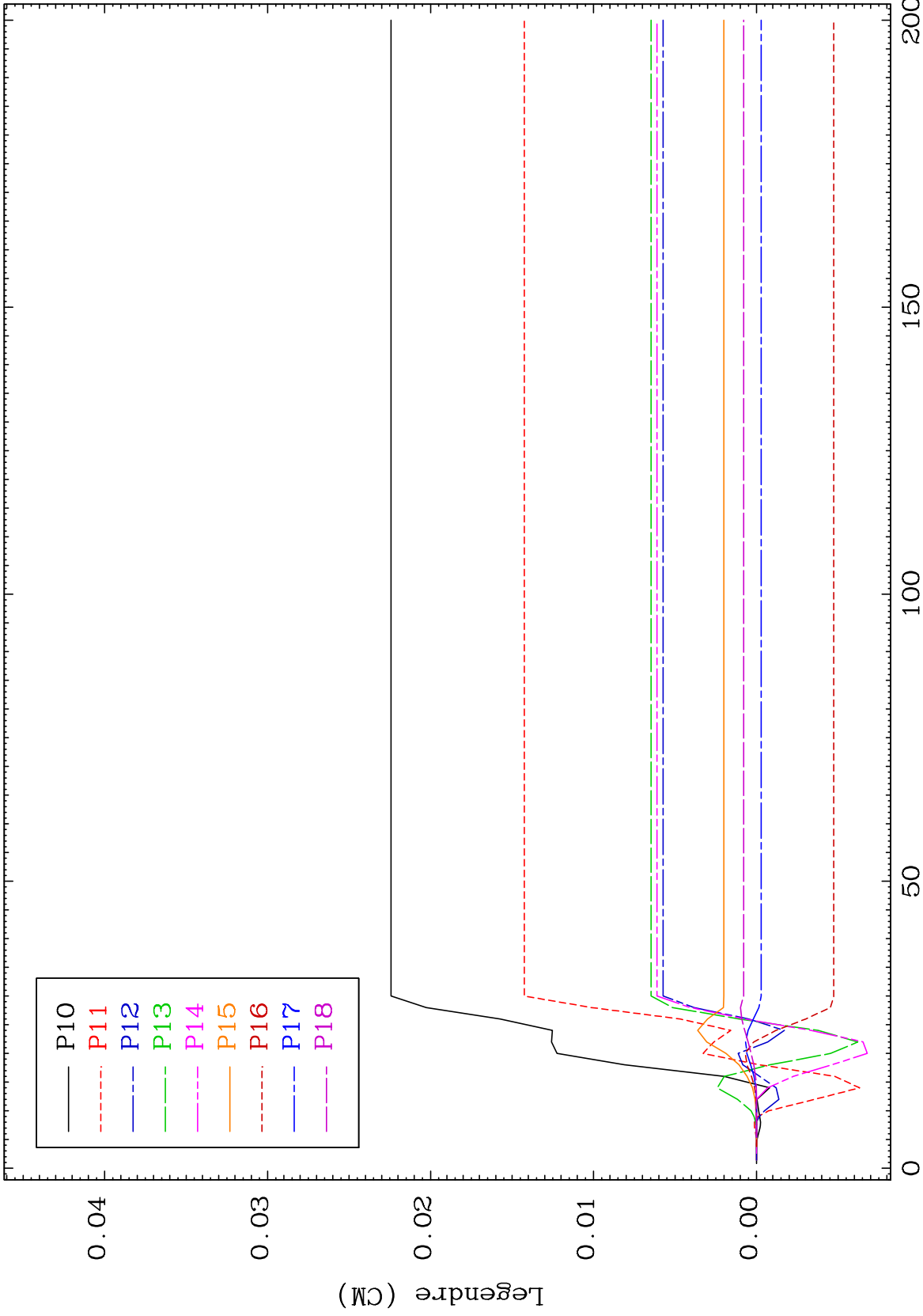
51-Sb-122

Incident Energy (MeV)

MAT 5128

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

51-Sb-122



41

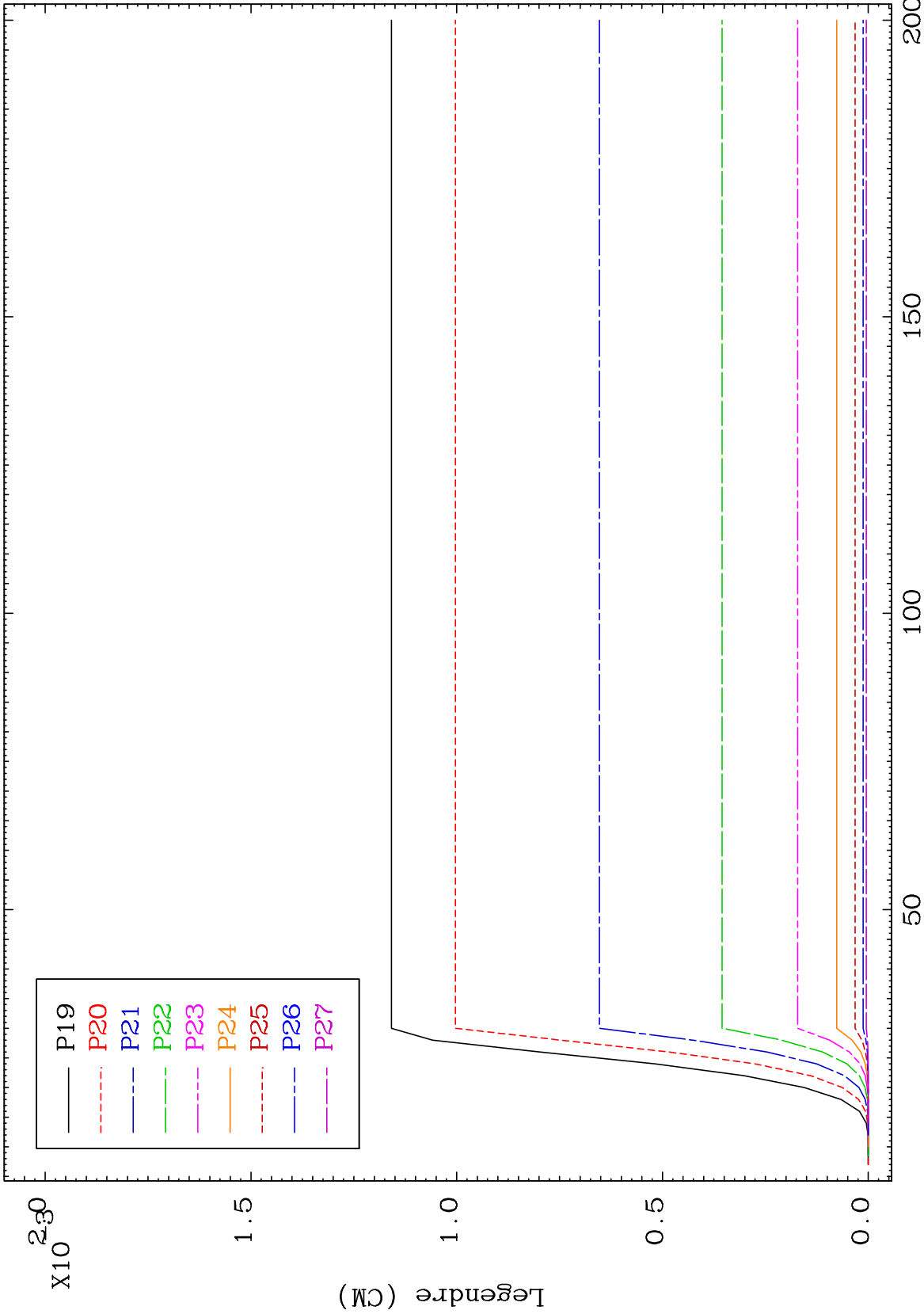
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



42

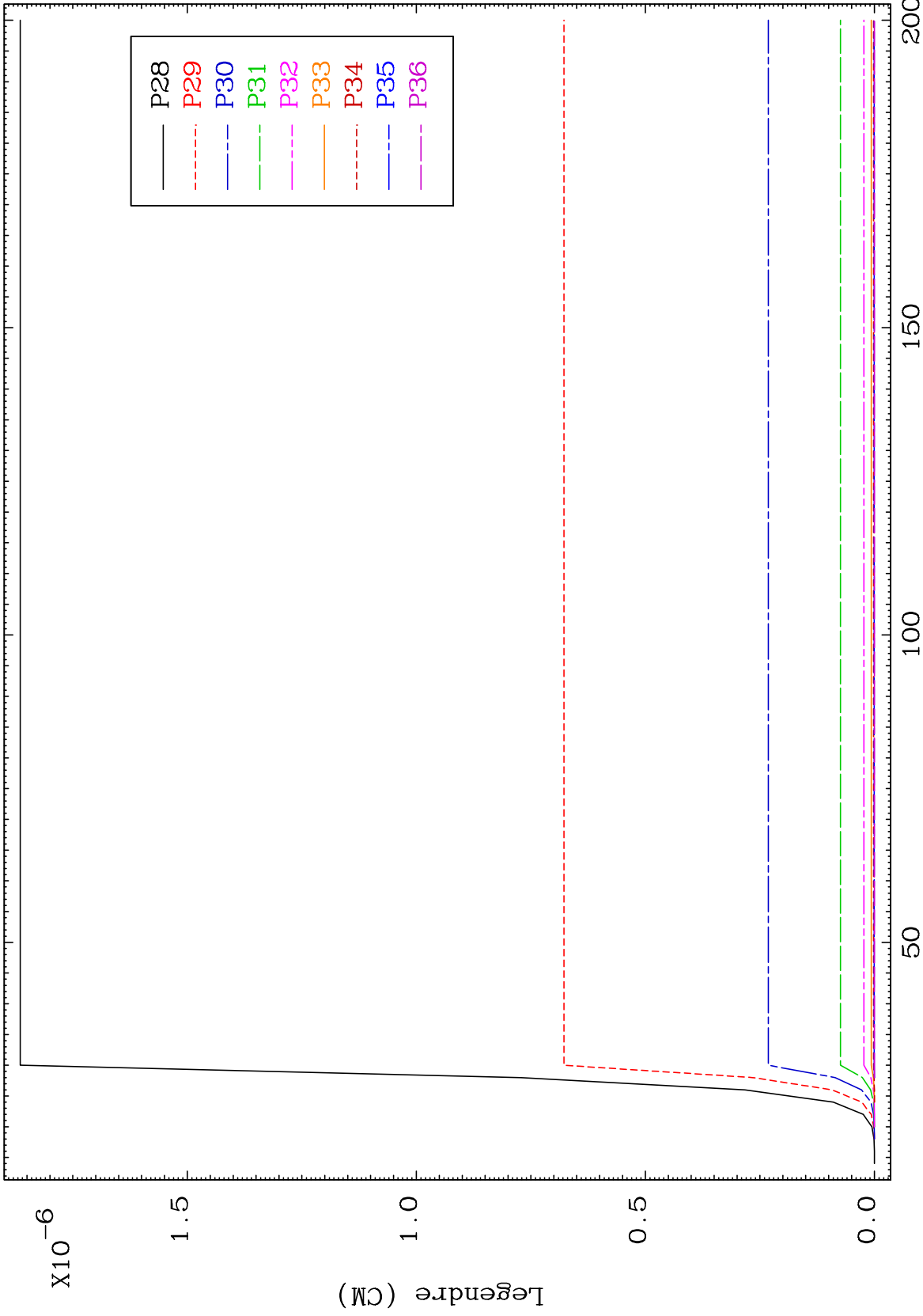
51-Sb-122

51-Sb-122

MAT 5128

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

51-Sb-122



43

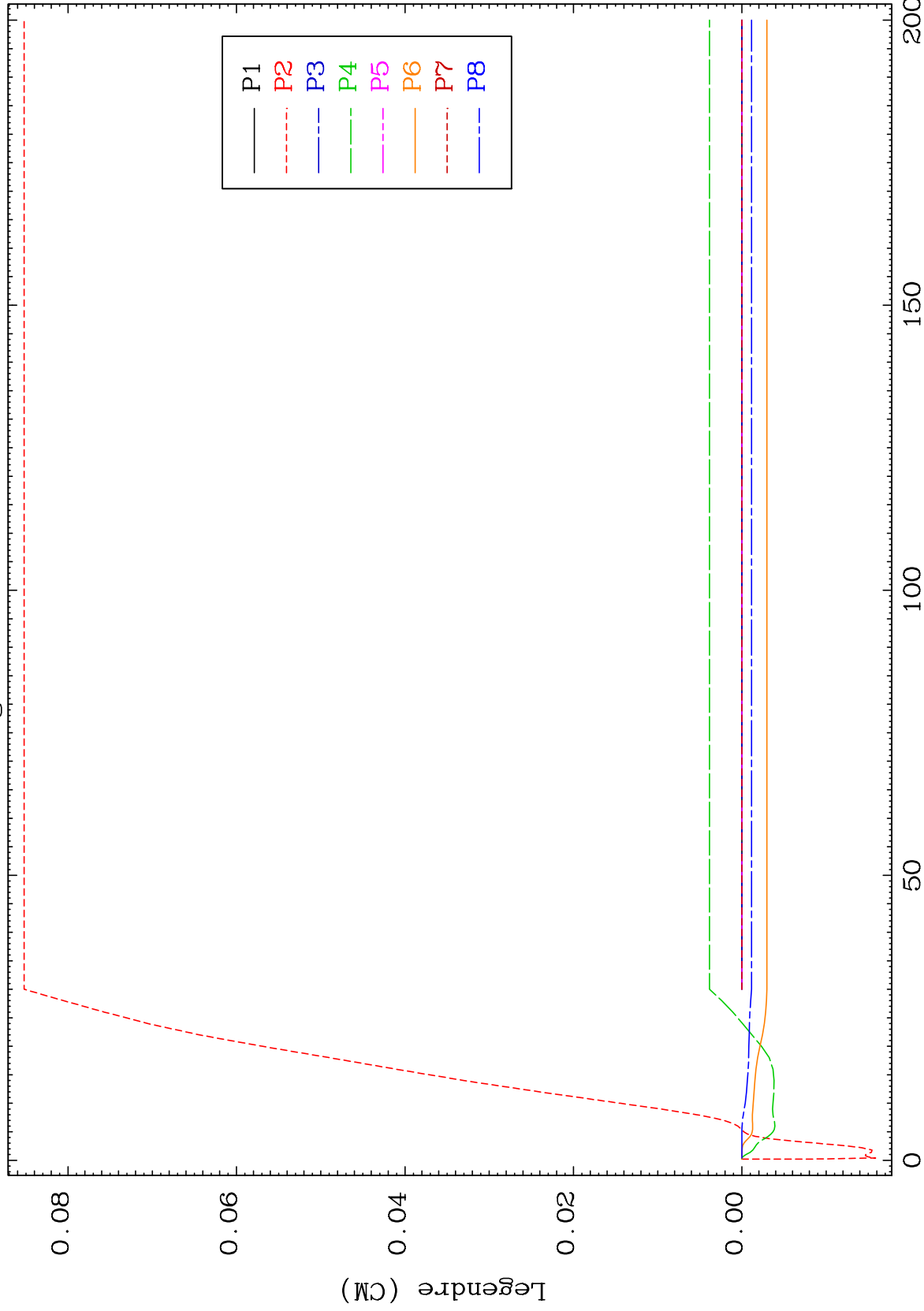
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



44

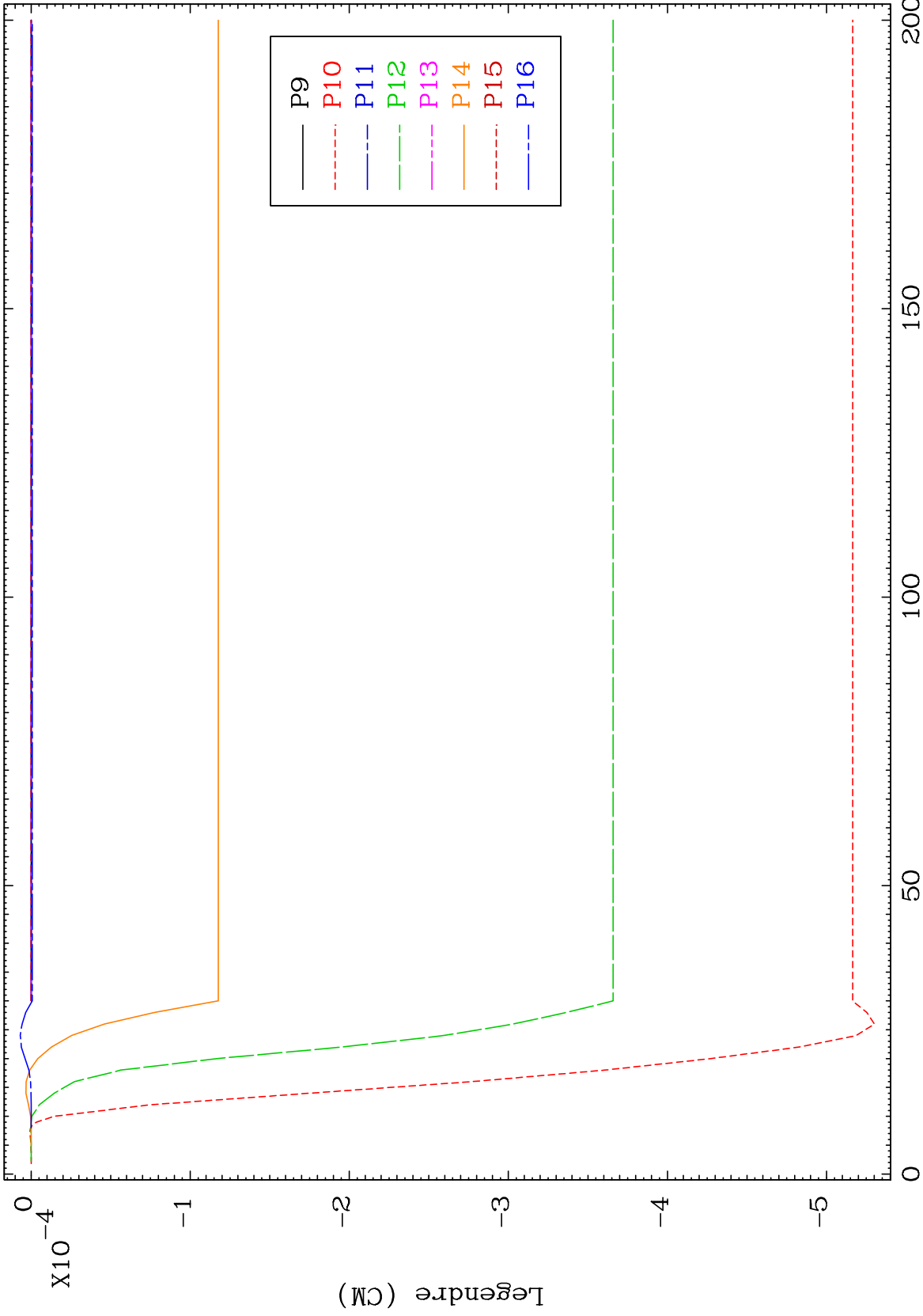
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122

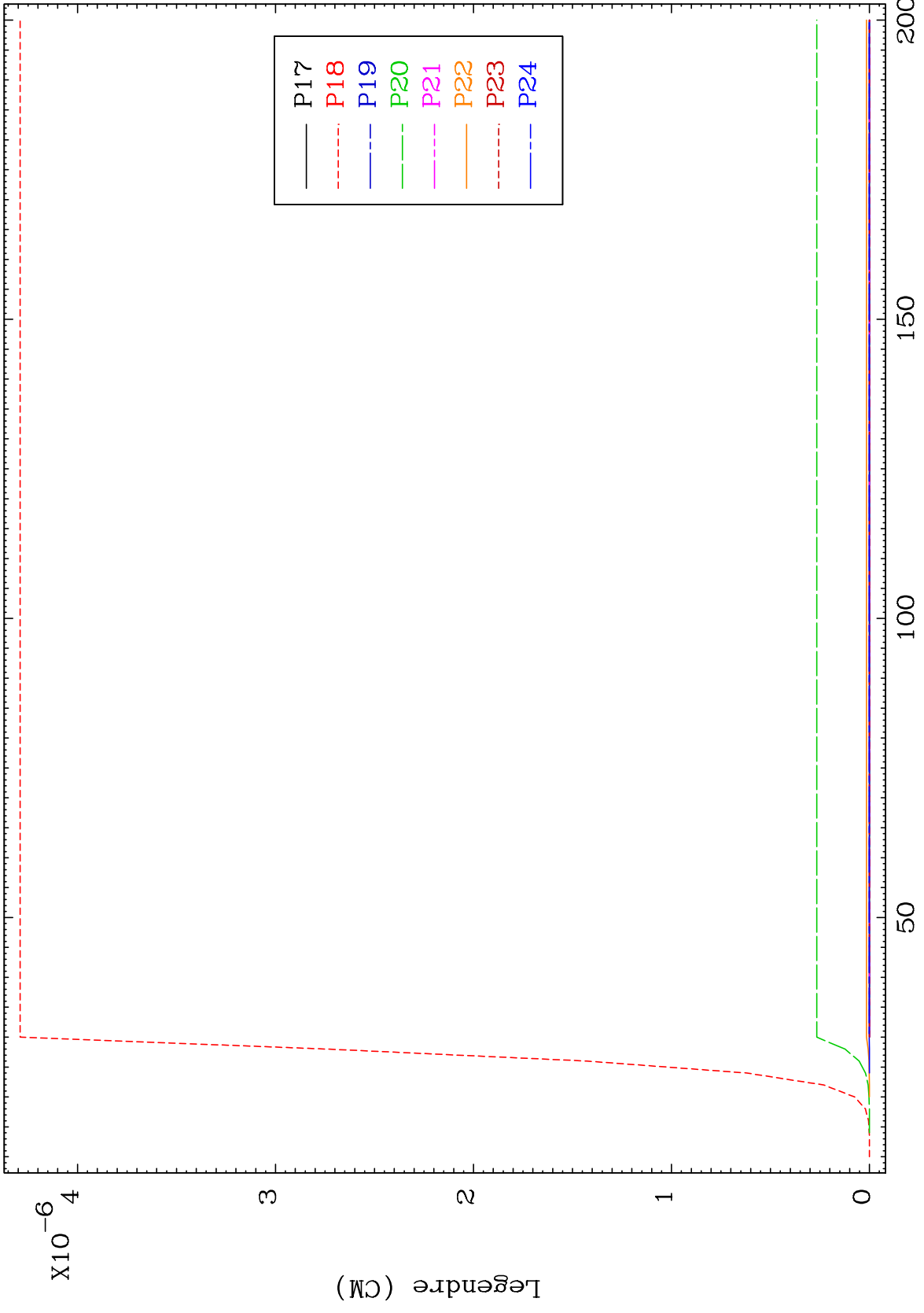


45

Incident Energy (MeV)

51-Sb-122

MAT 5128 MT= 58 (n,n') Level Legendre Coefficients 51-Sb-122

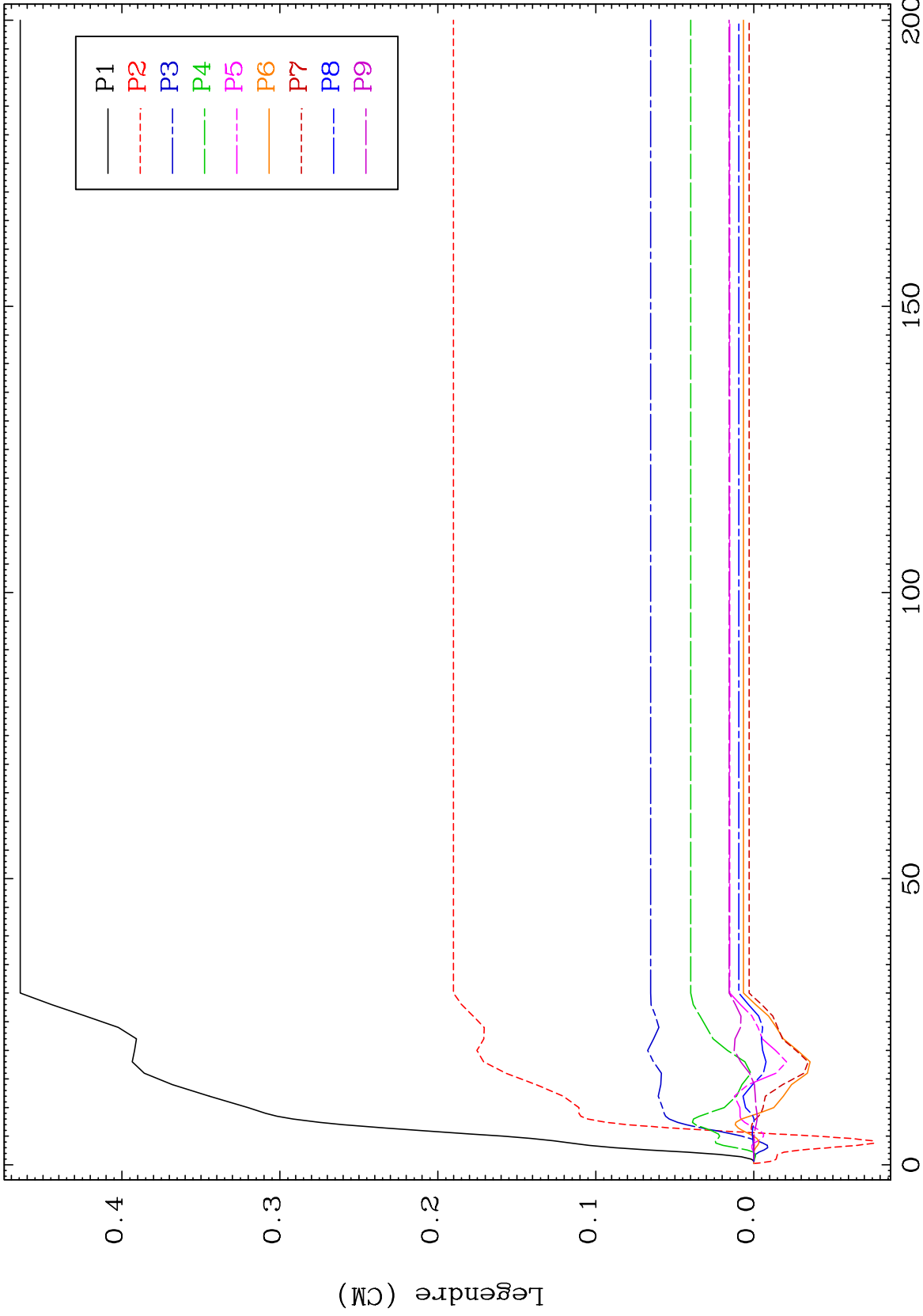


46 50 100 150 200 51-Sb-122

MAT 5128

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

51-Sb-122



47

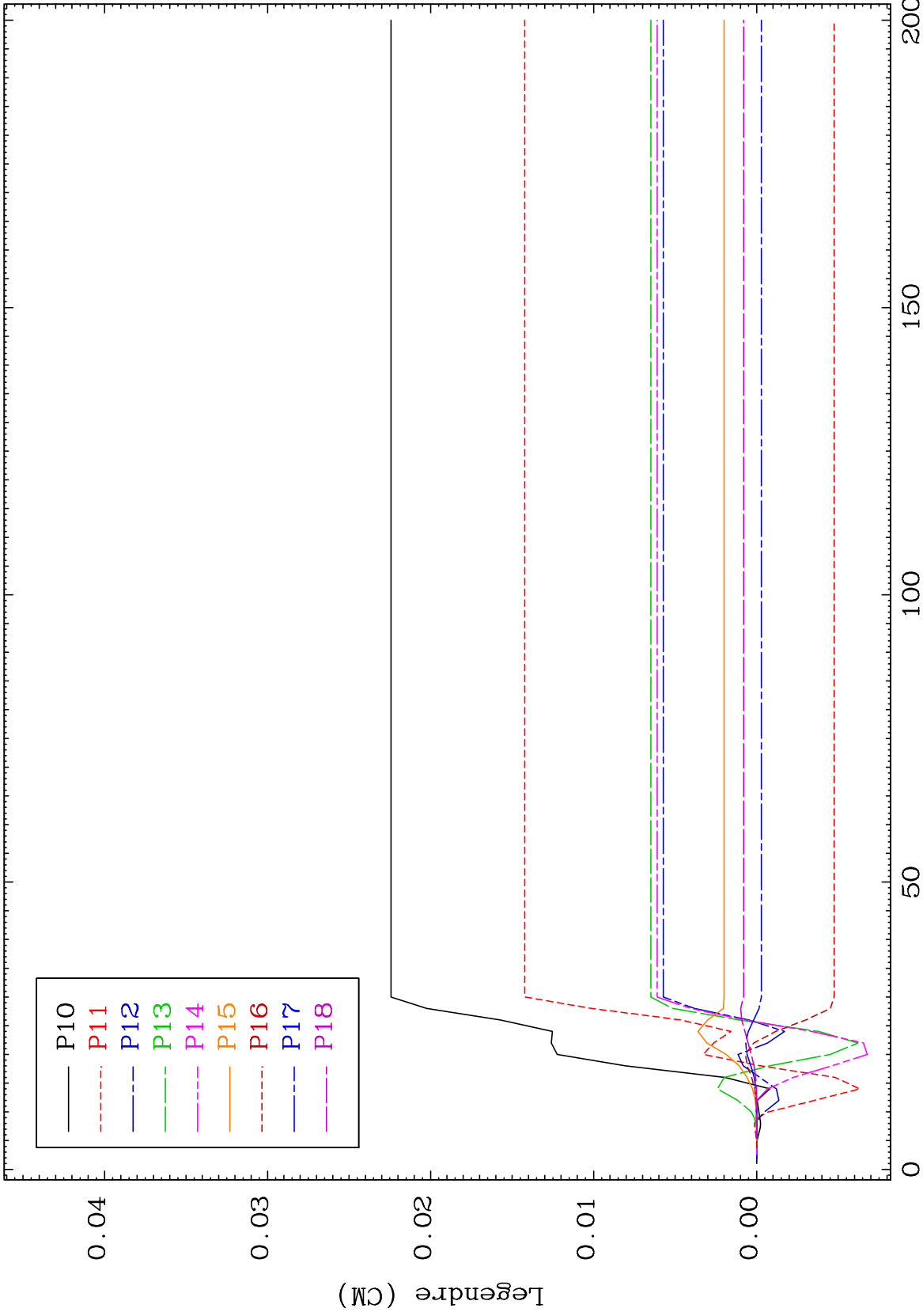
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

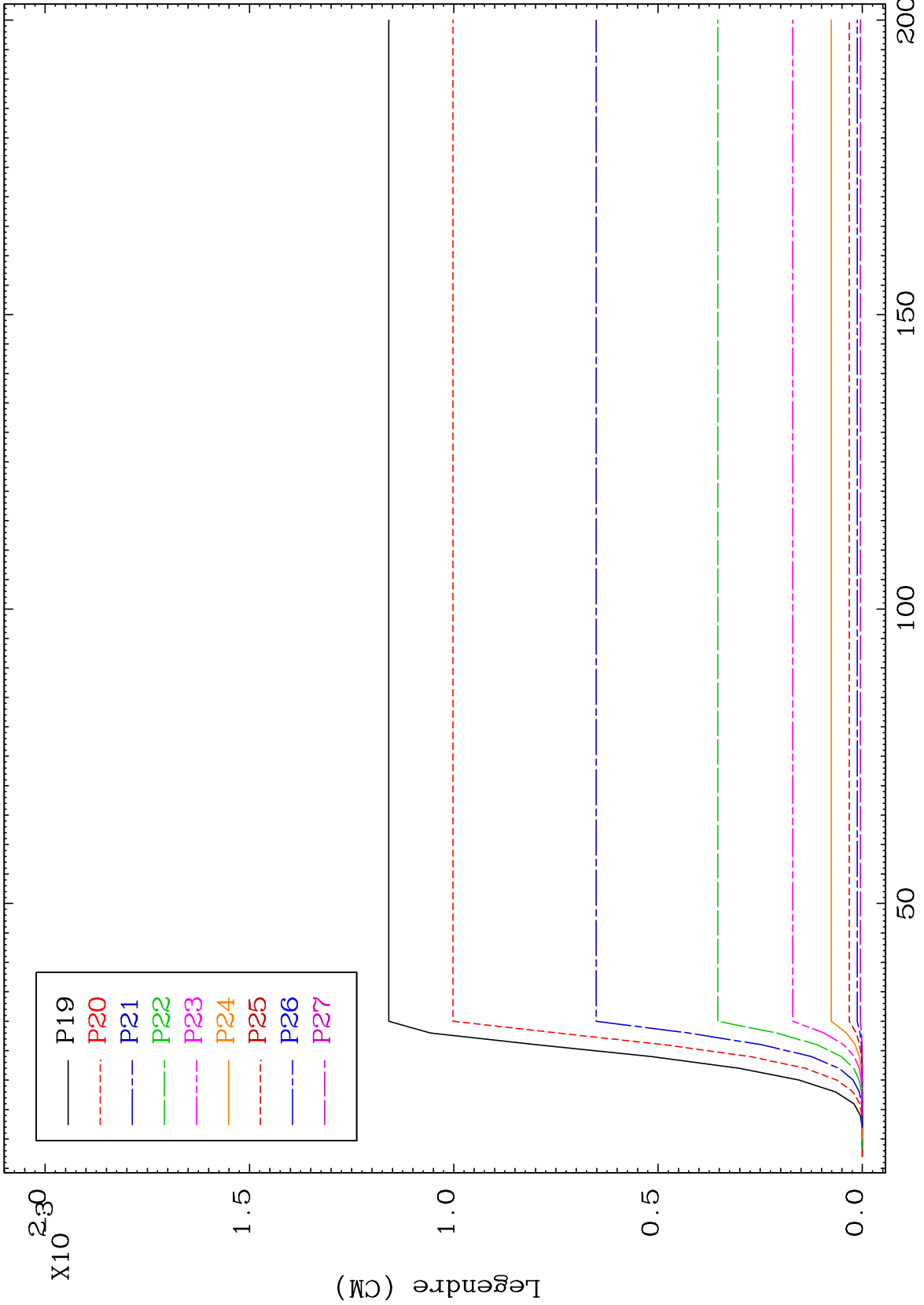
51-Sb-122



48

Incident Energy (MeV)

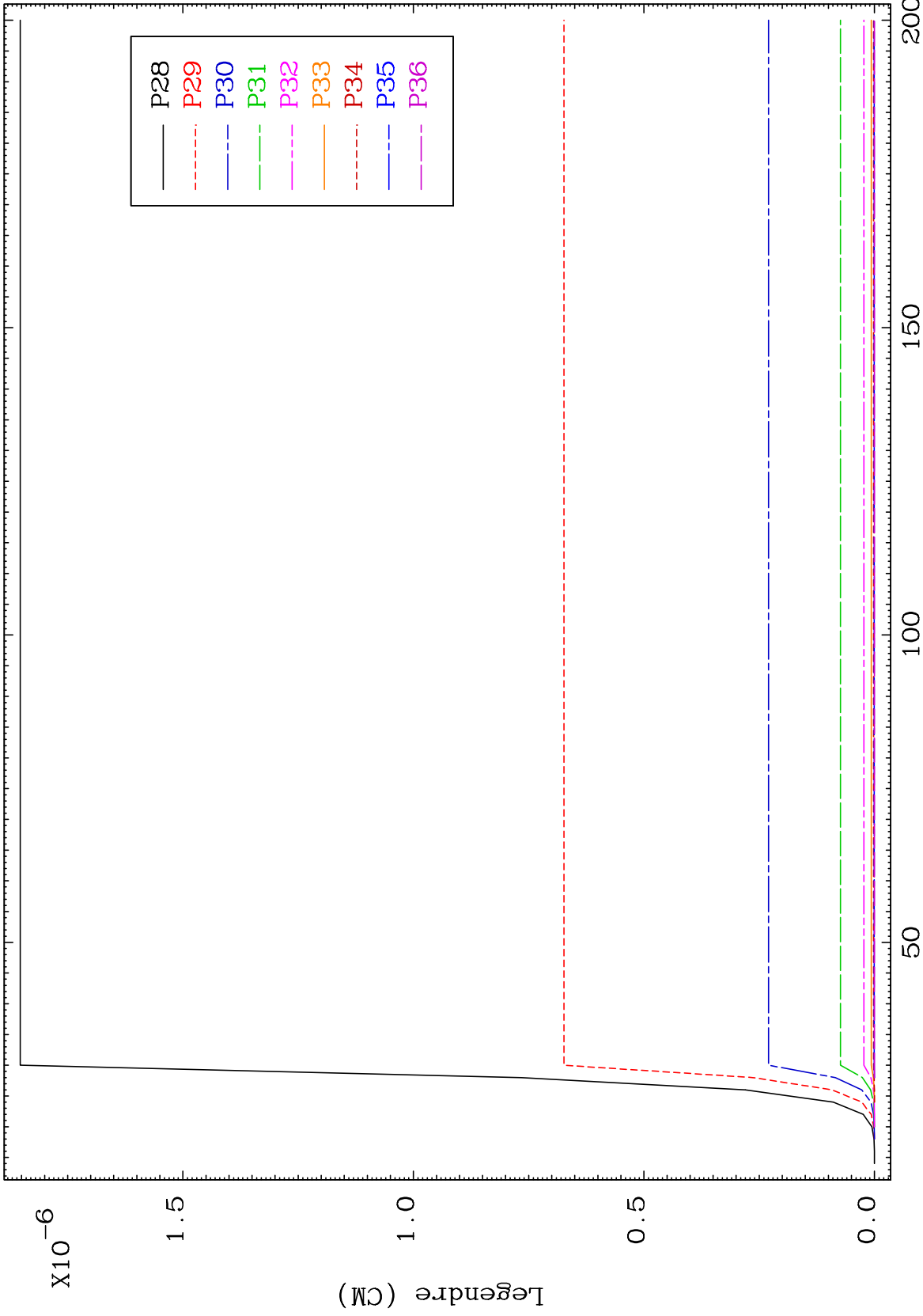
51-Sb-122



MAT 5128

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

51-Sb-122



50

50

100

150

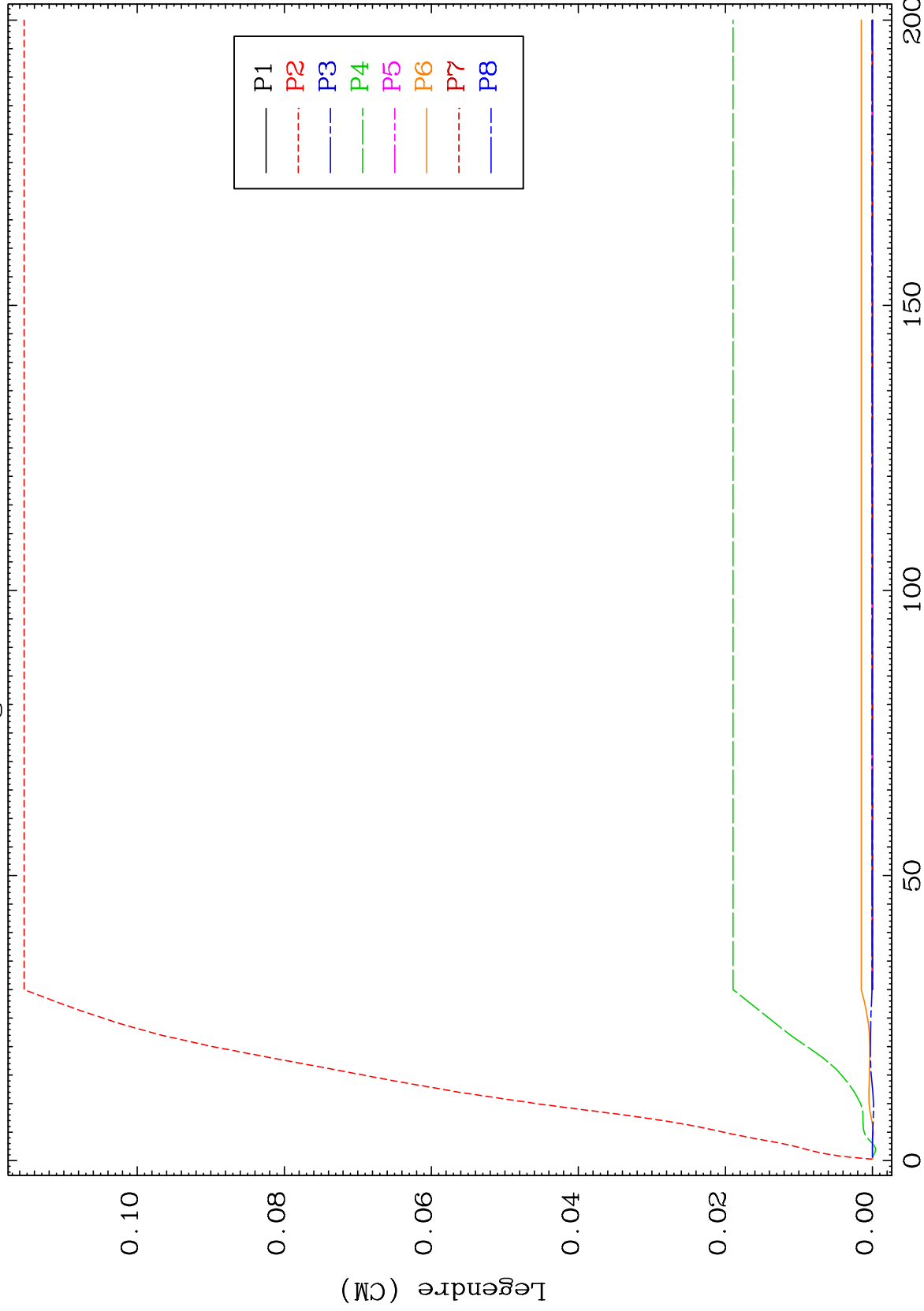
200

51-Sb-122

MAT 5128

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

51-Sb-122



51

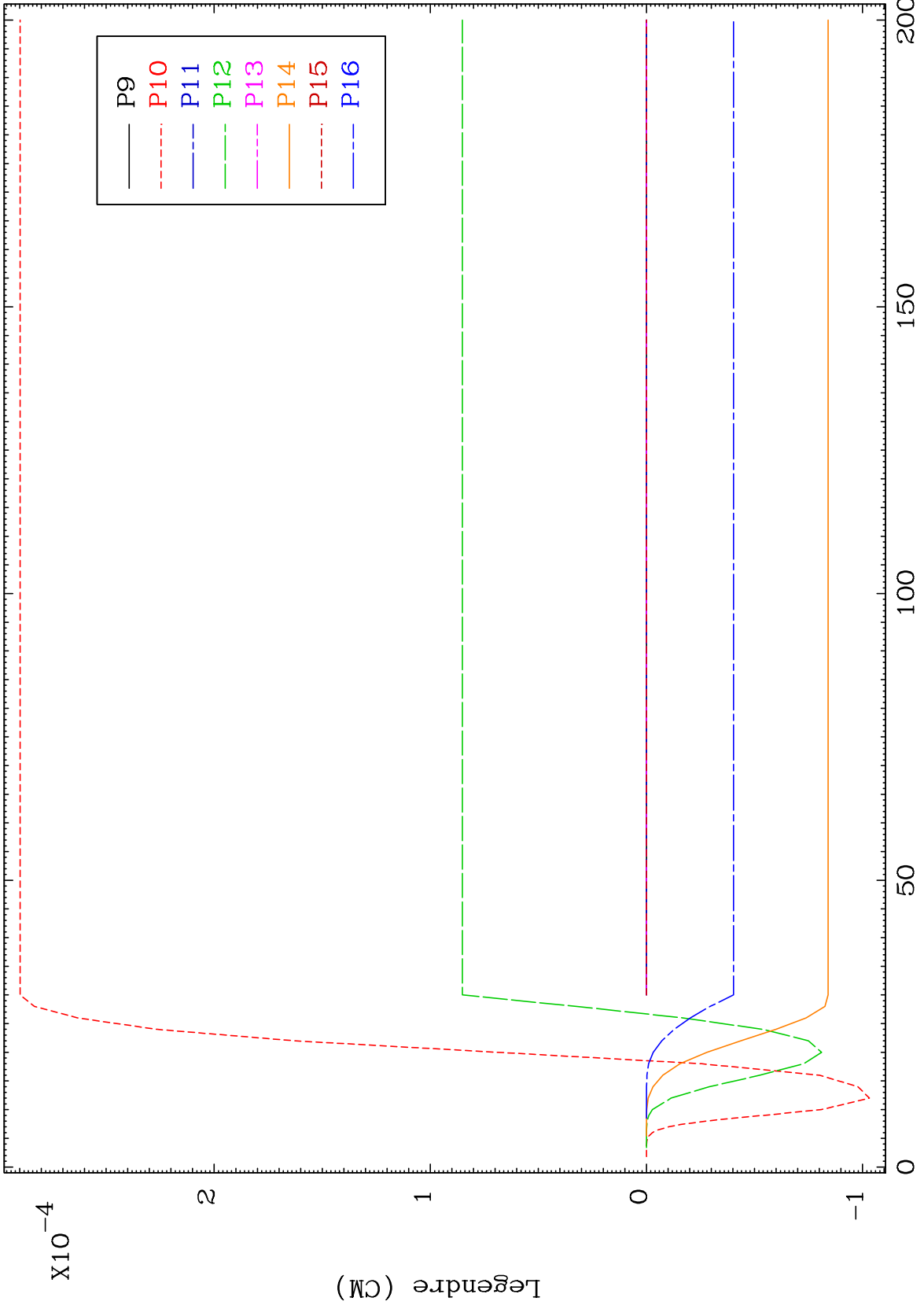
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



52

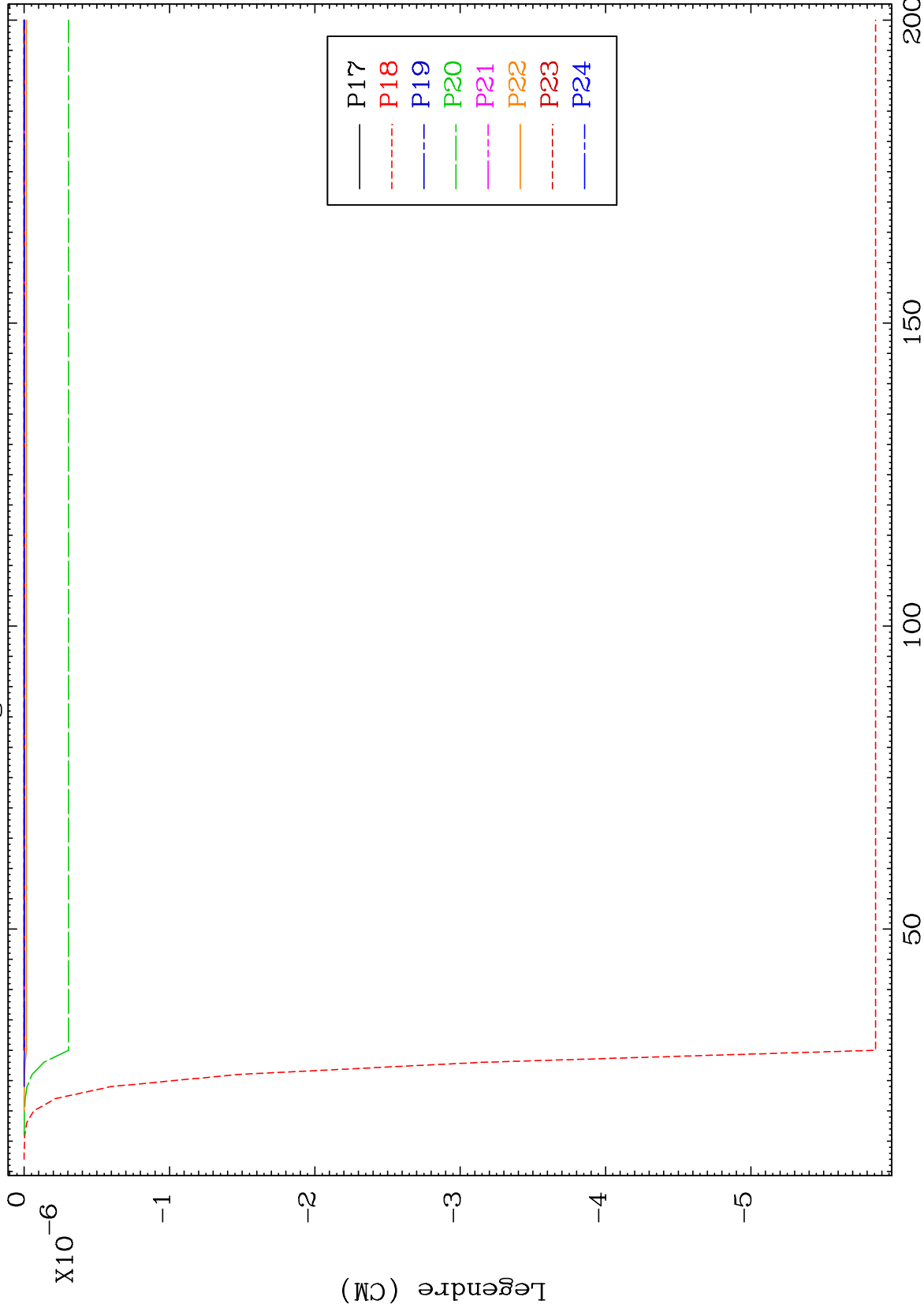
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



53

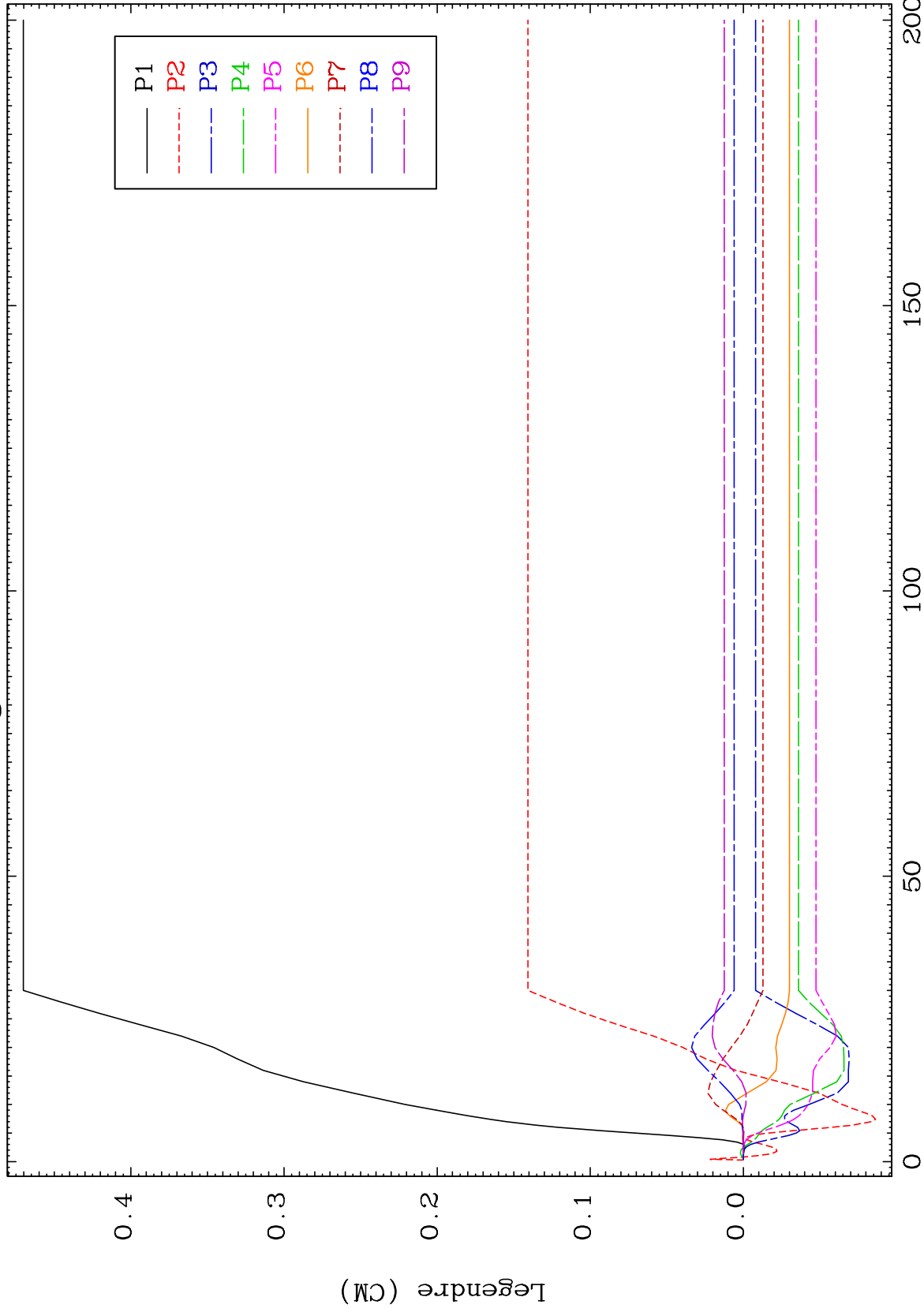
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



54

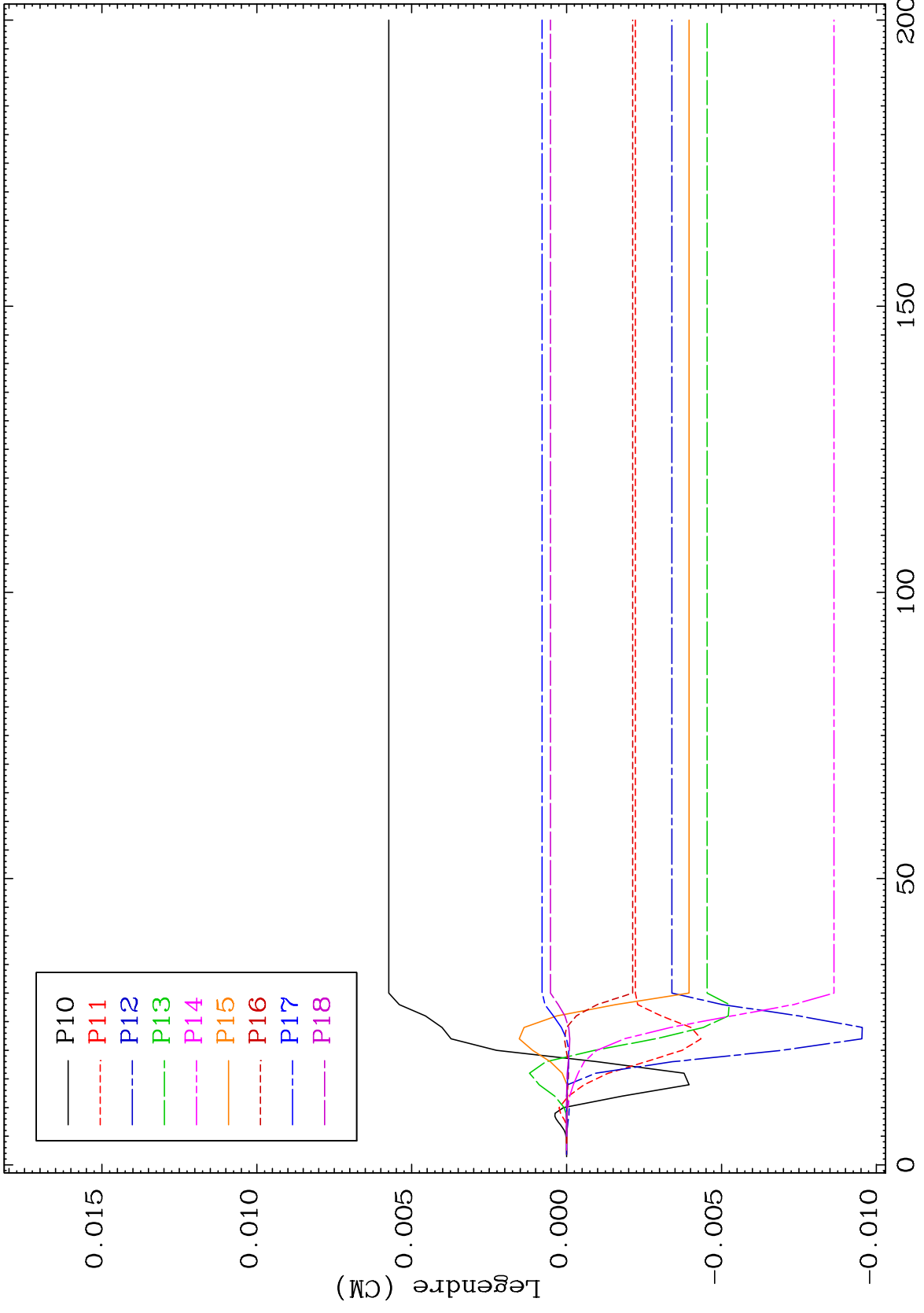
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

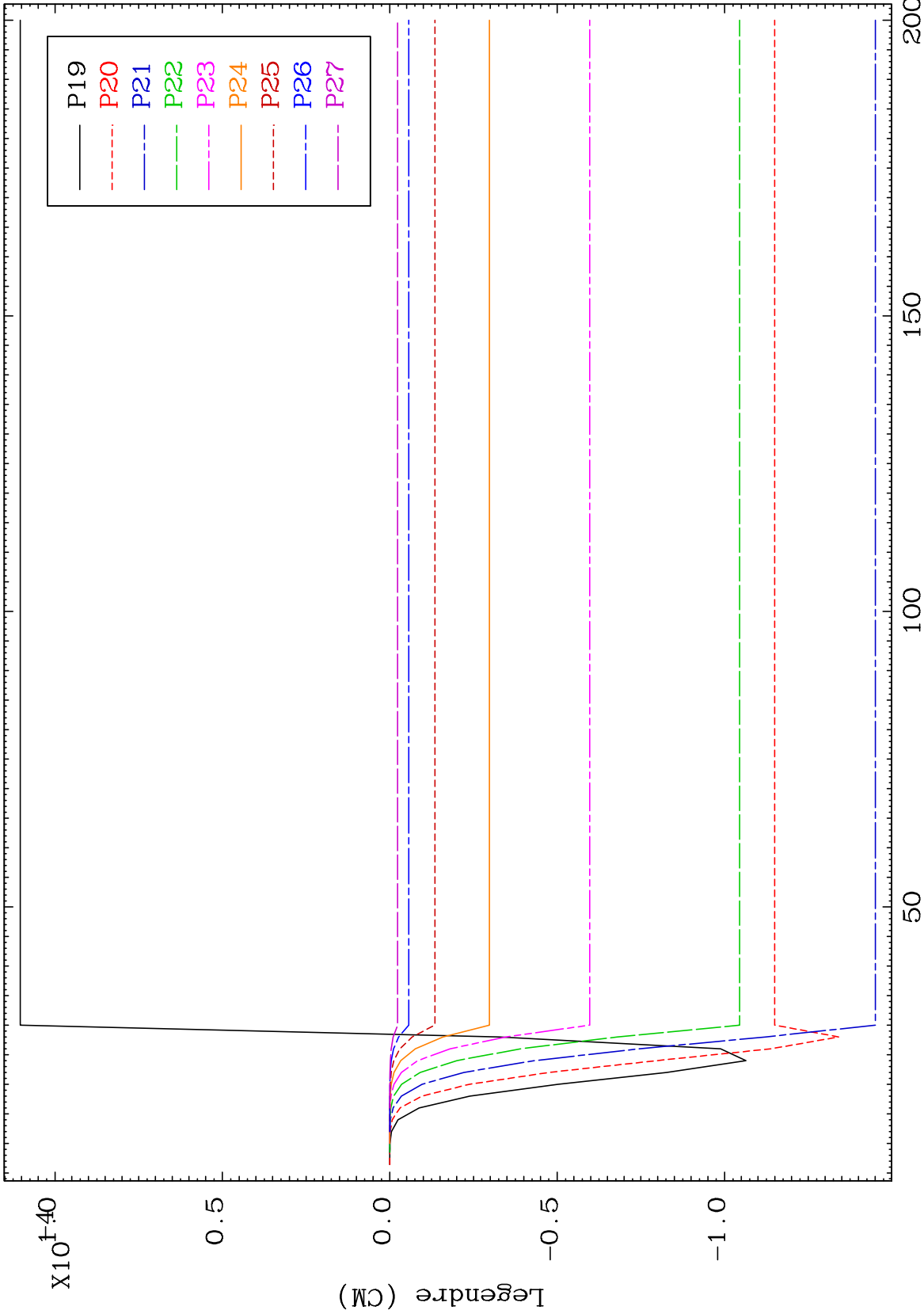
51-Sb-122



55

Incident Energy (MeV)

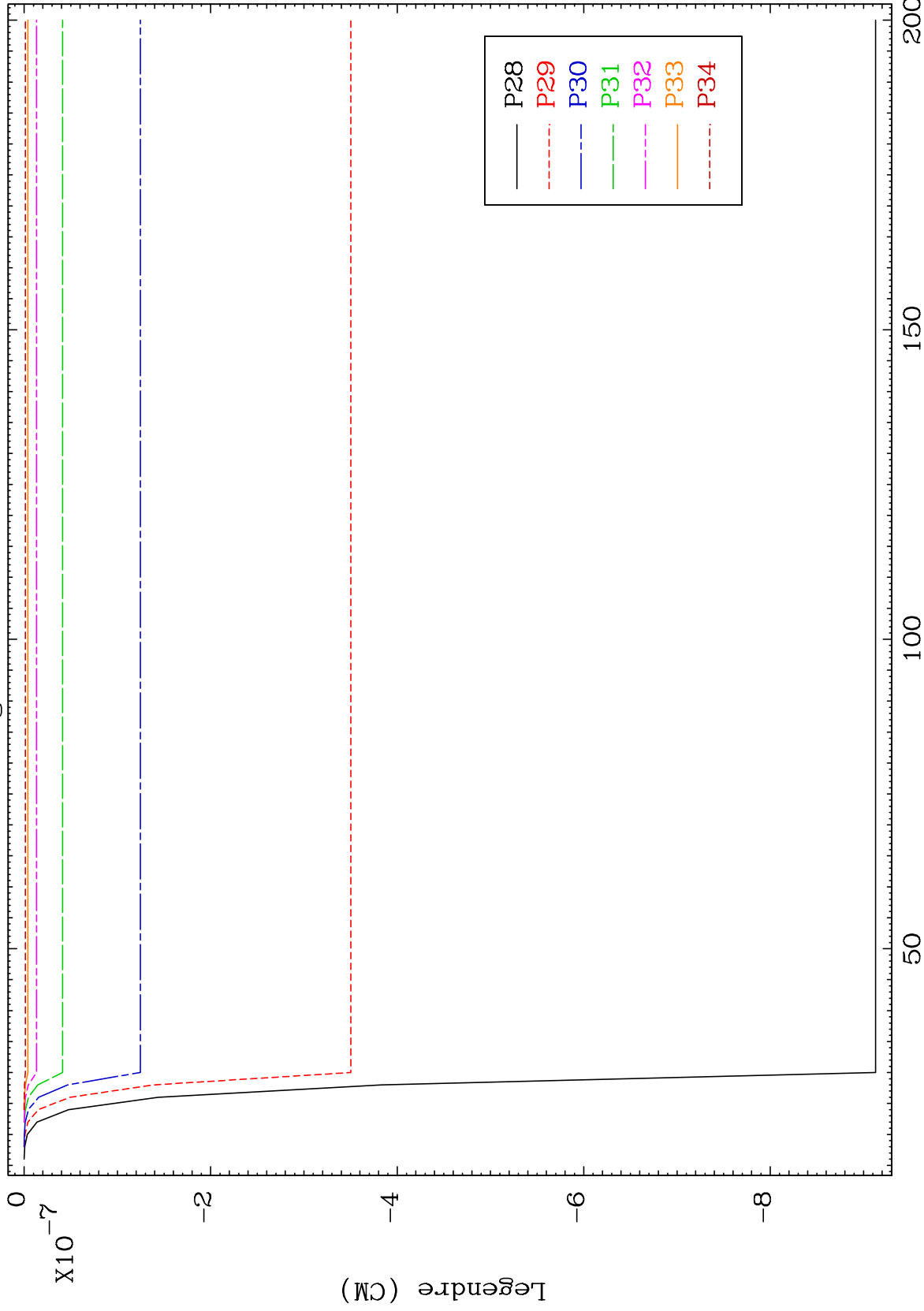
51-Sb-122



MAT 5128

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

51-Sb-122



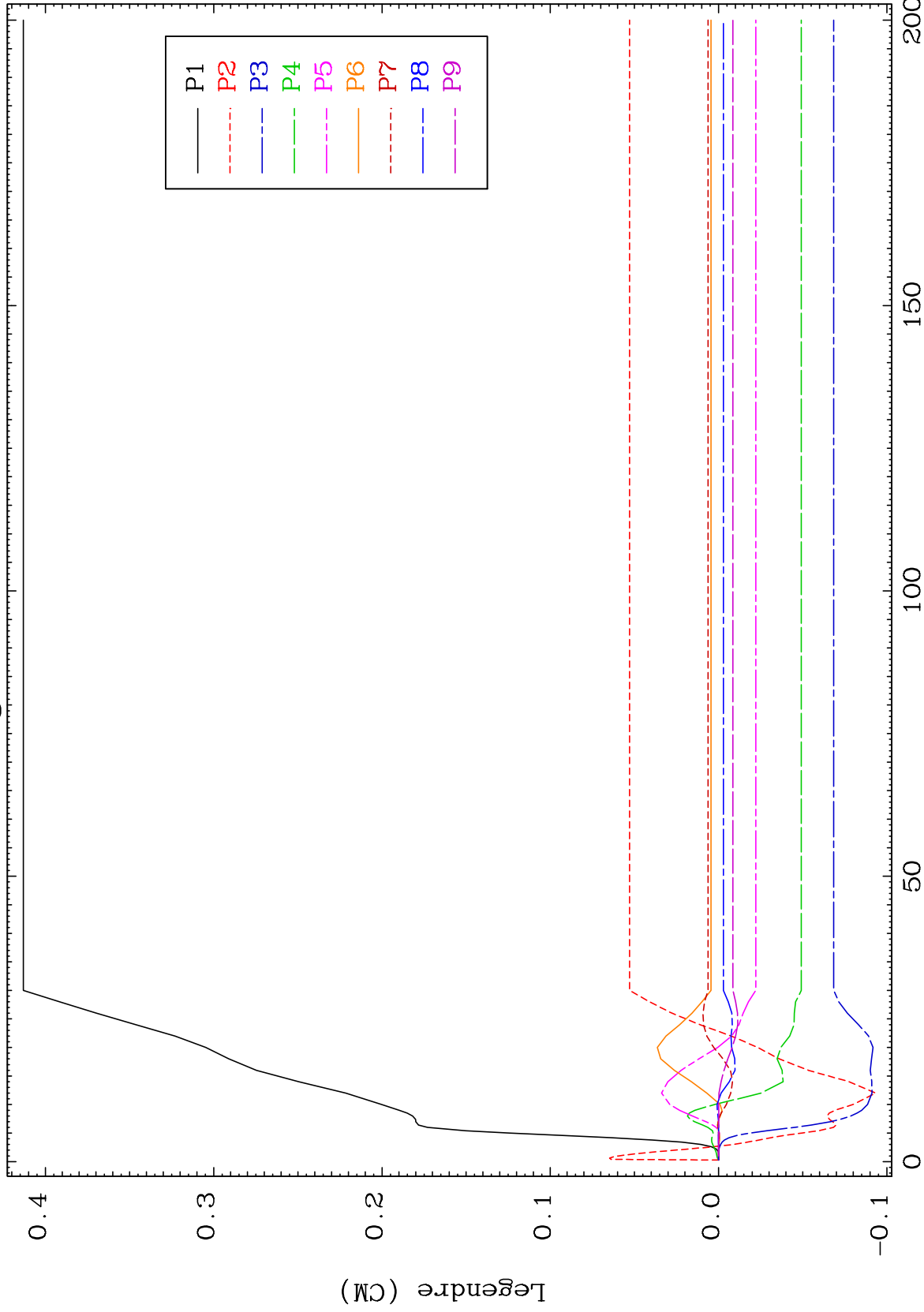
57

51-Sb-122

MAT 5128

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

51-Sb-122



58

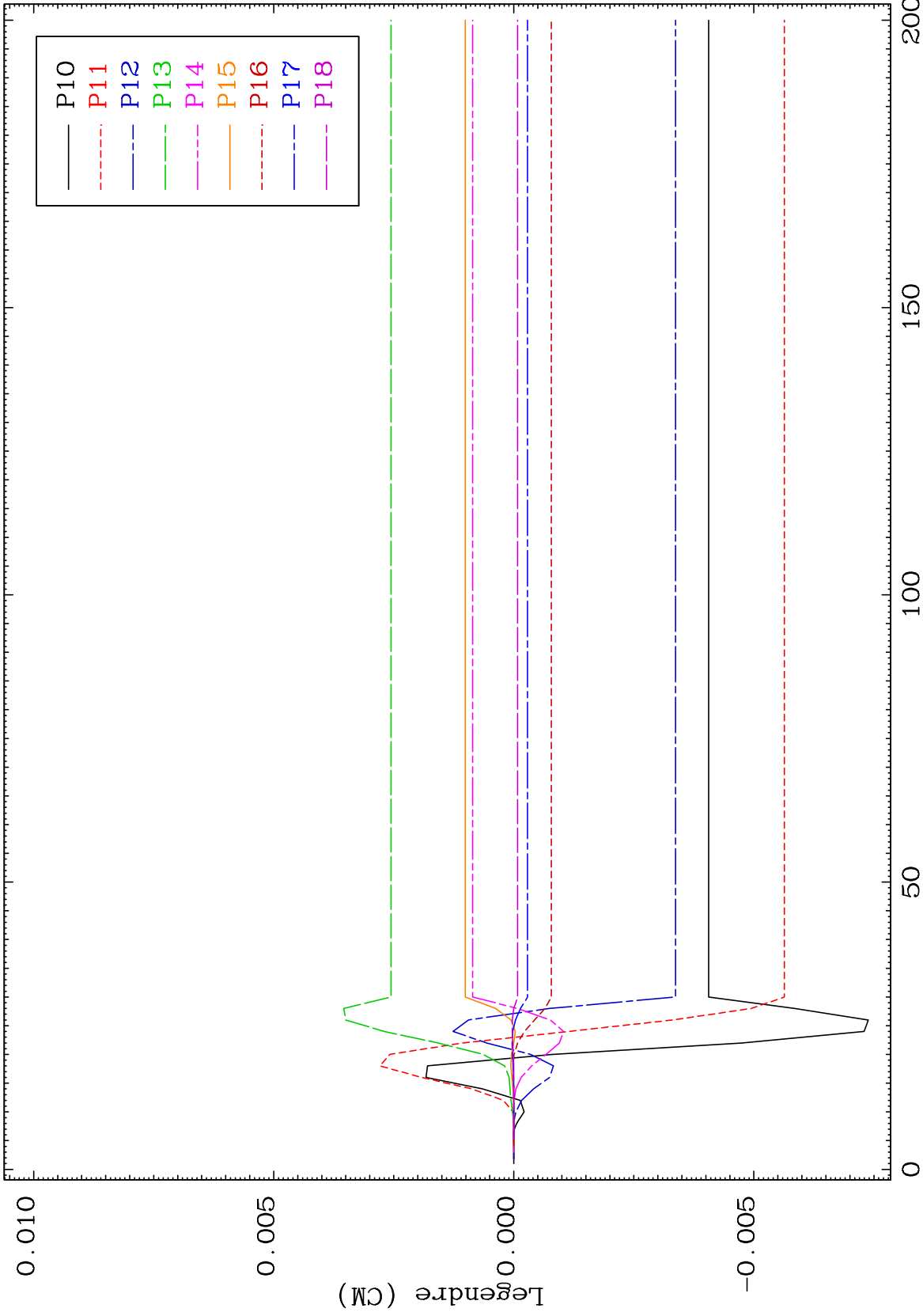
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



59

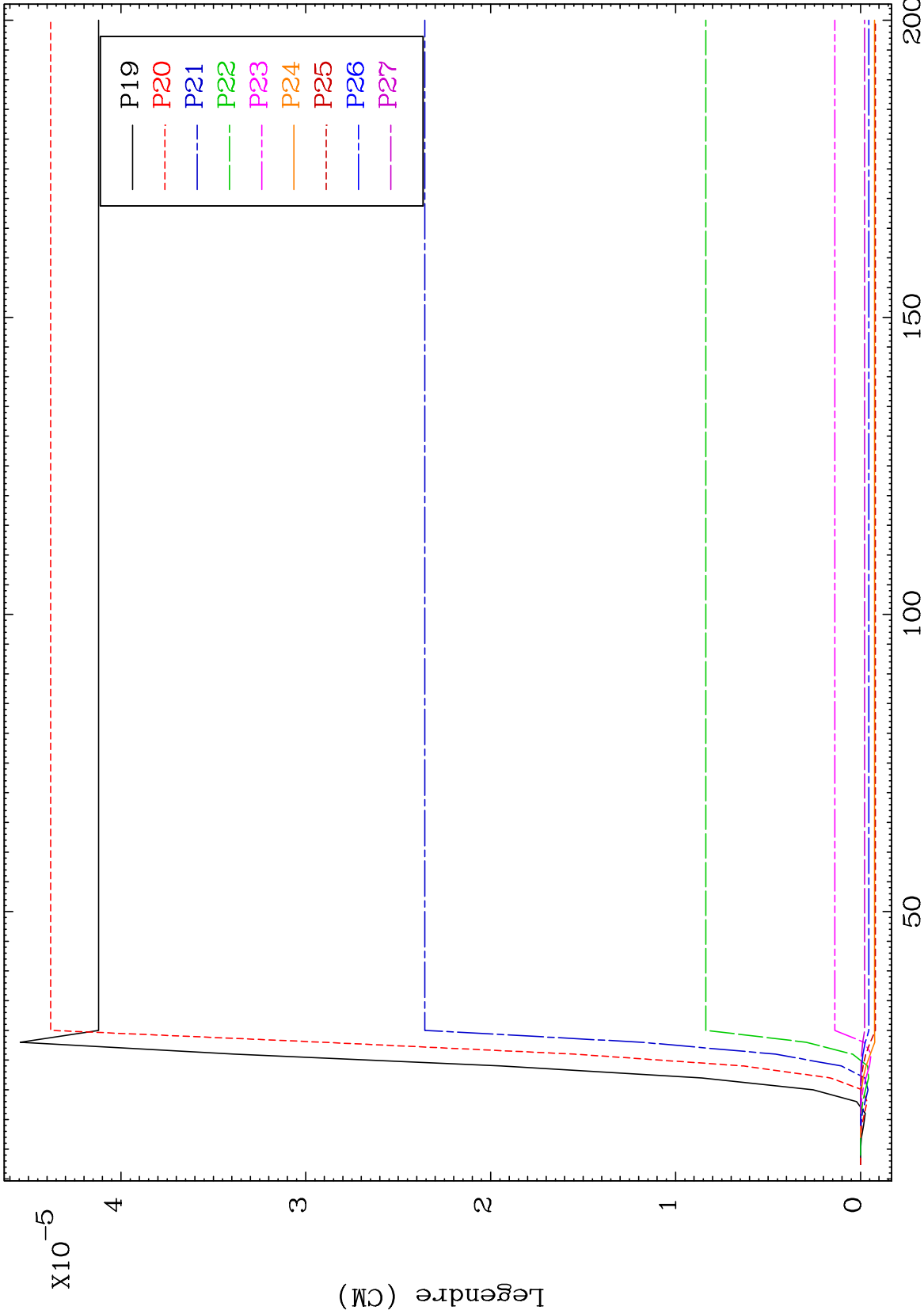
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



60

Incident Energy (MeV)

50

150

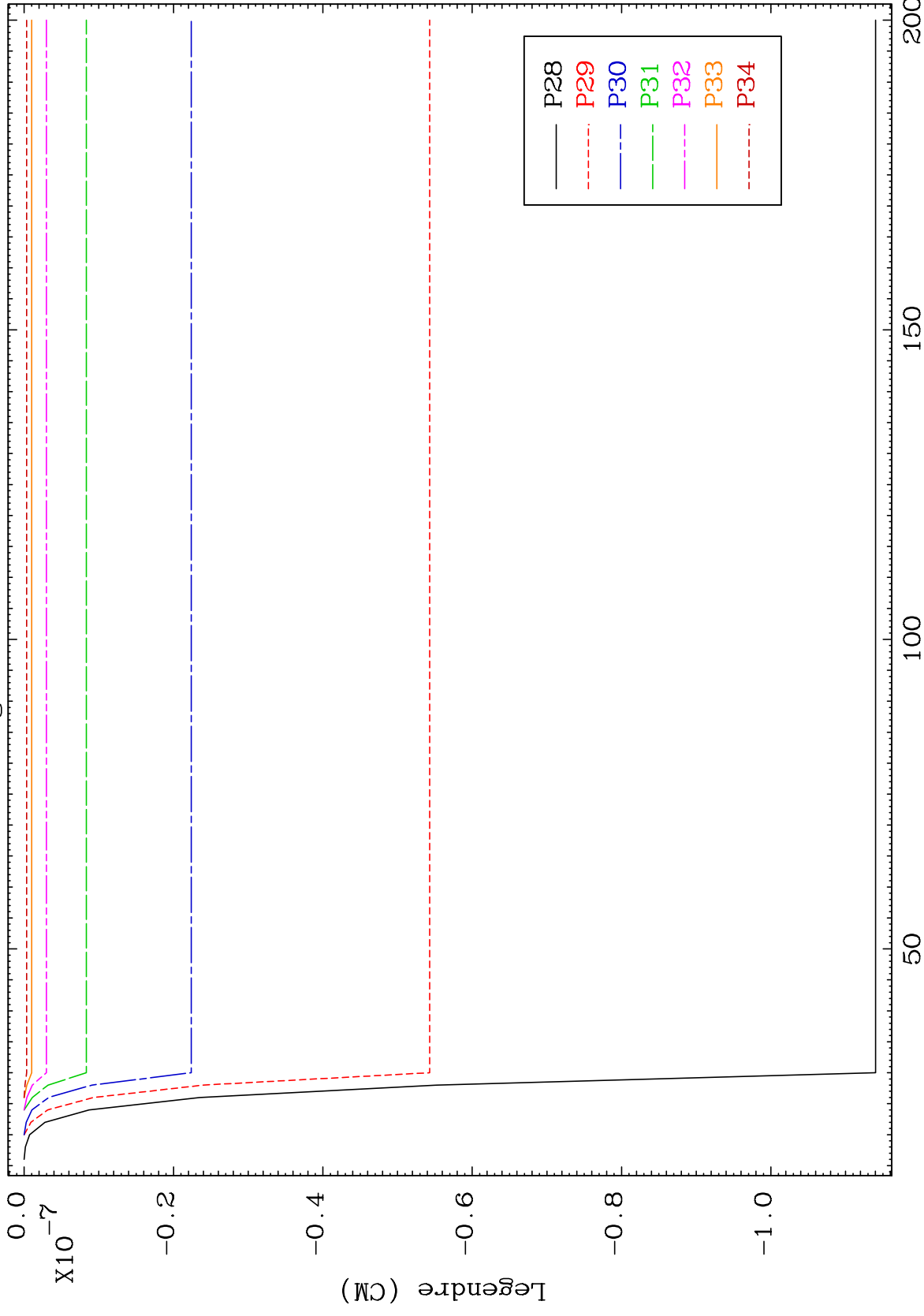
200

51-Sb-122

MAT 5128

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

51-Sb-122



51-Sb-122

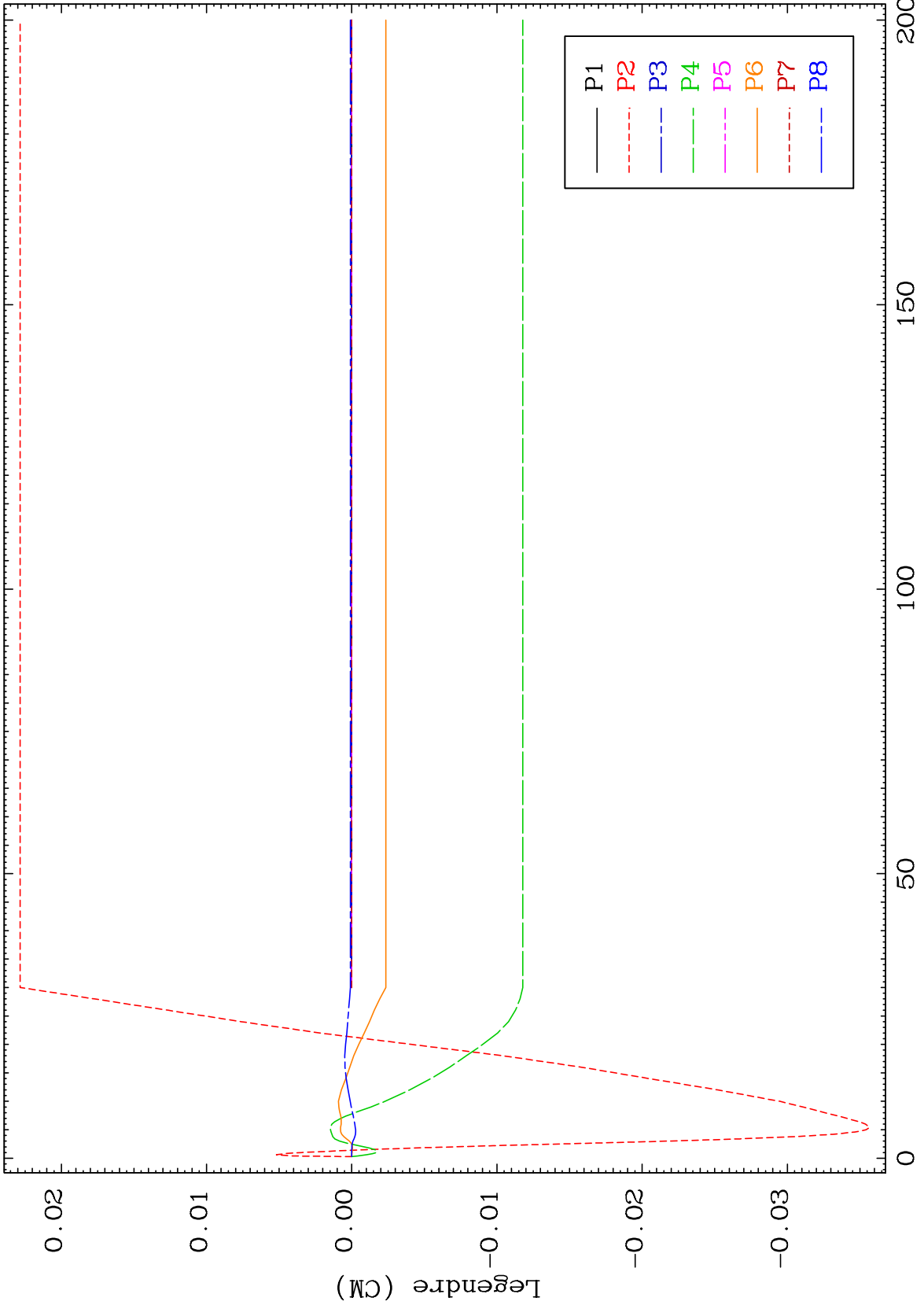
Incident Energy (MeV)

61

MAT 5128

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

51-Sb-122



62

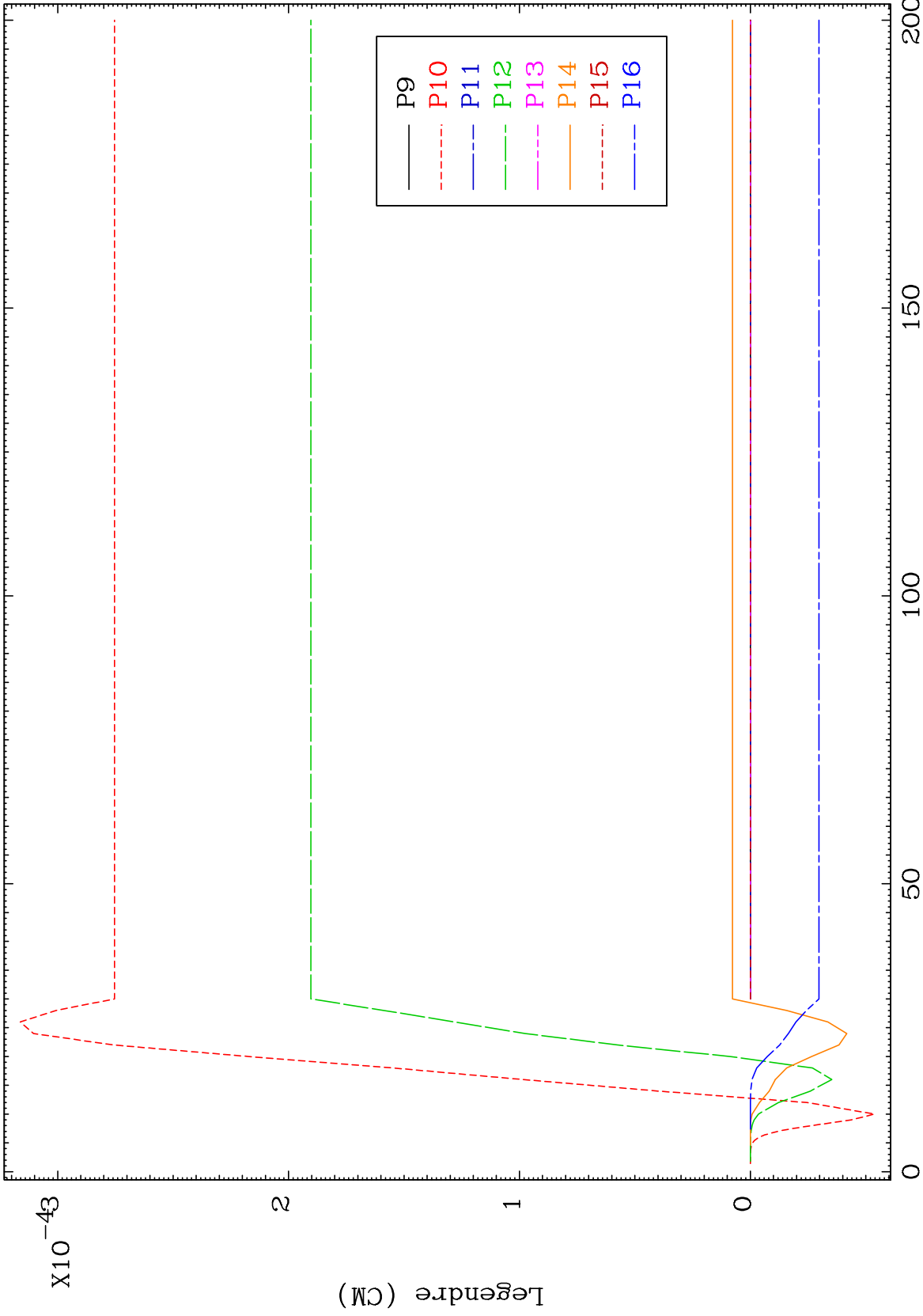
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



63

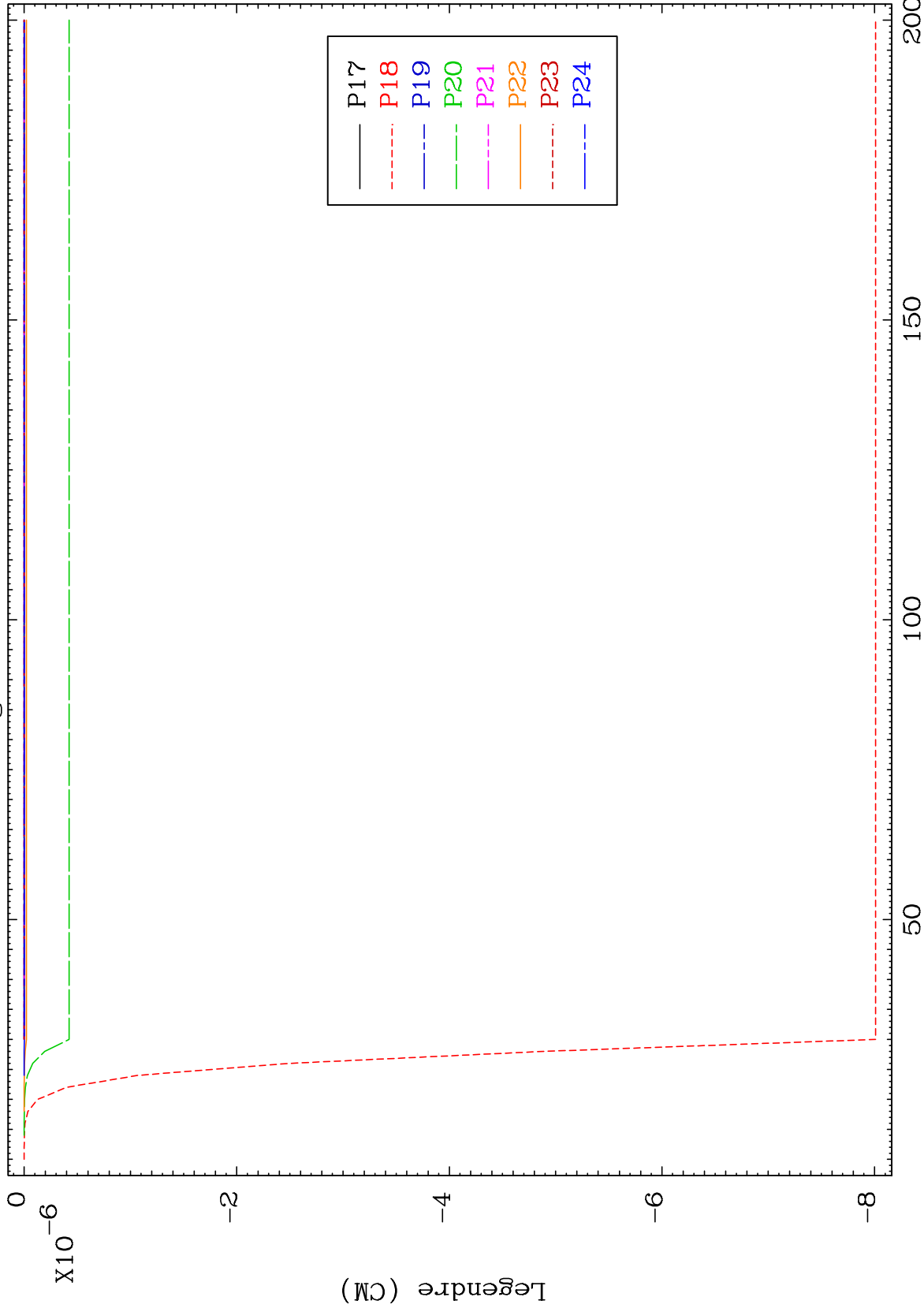
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



64

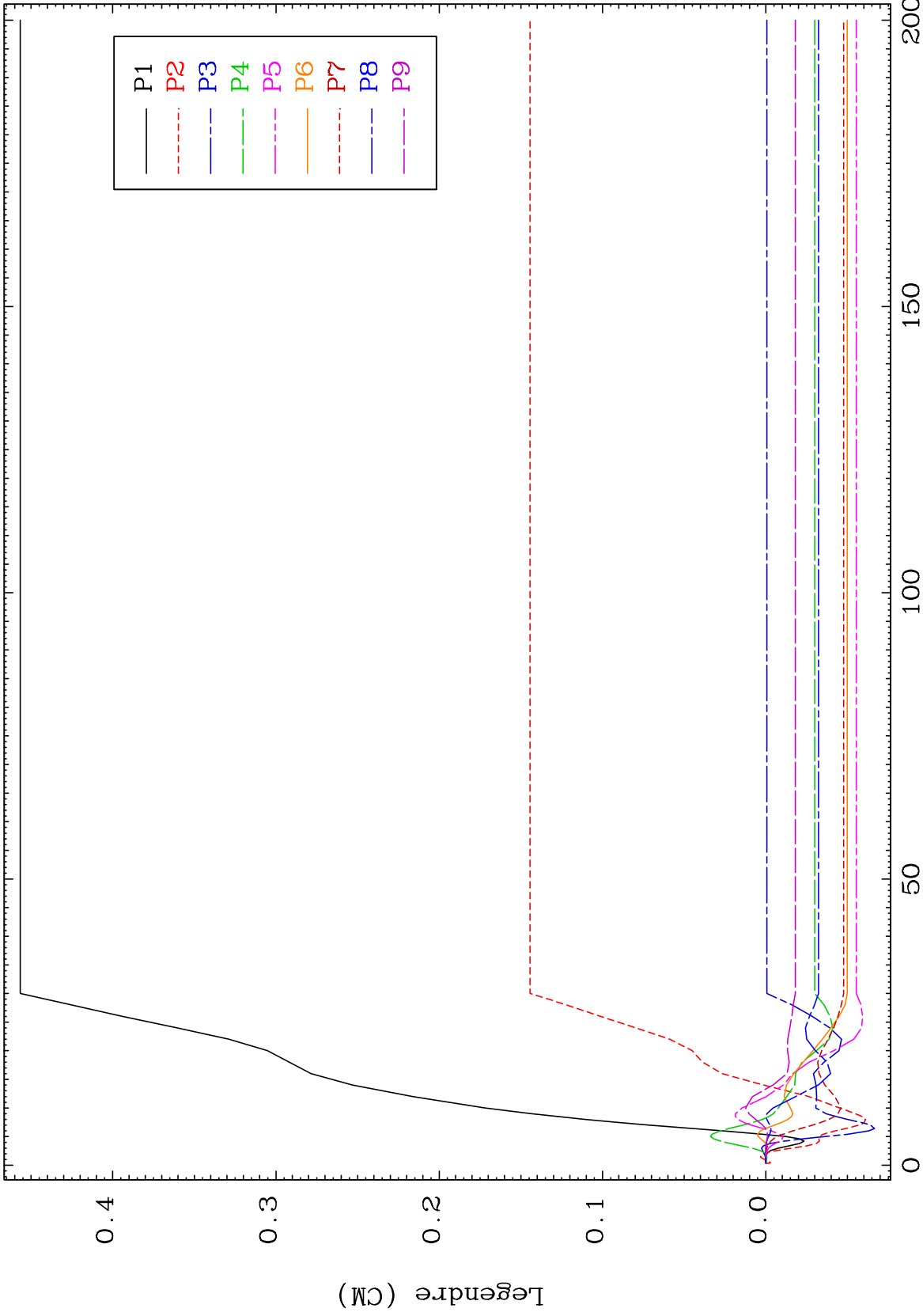
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



65

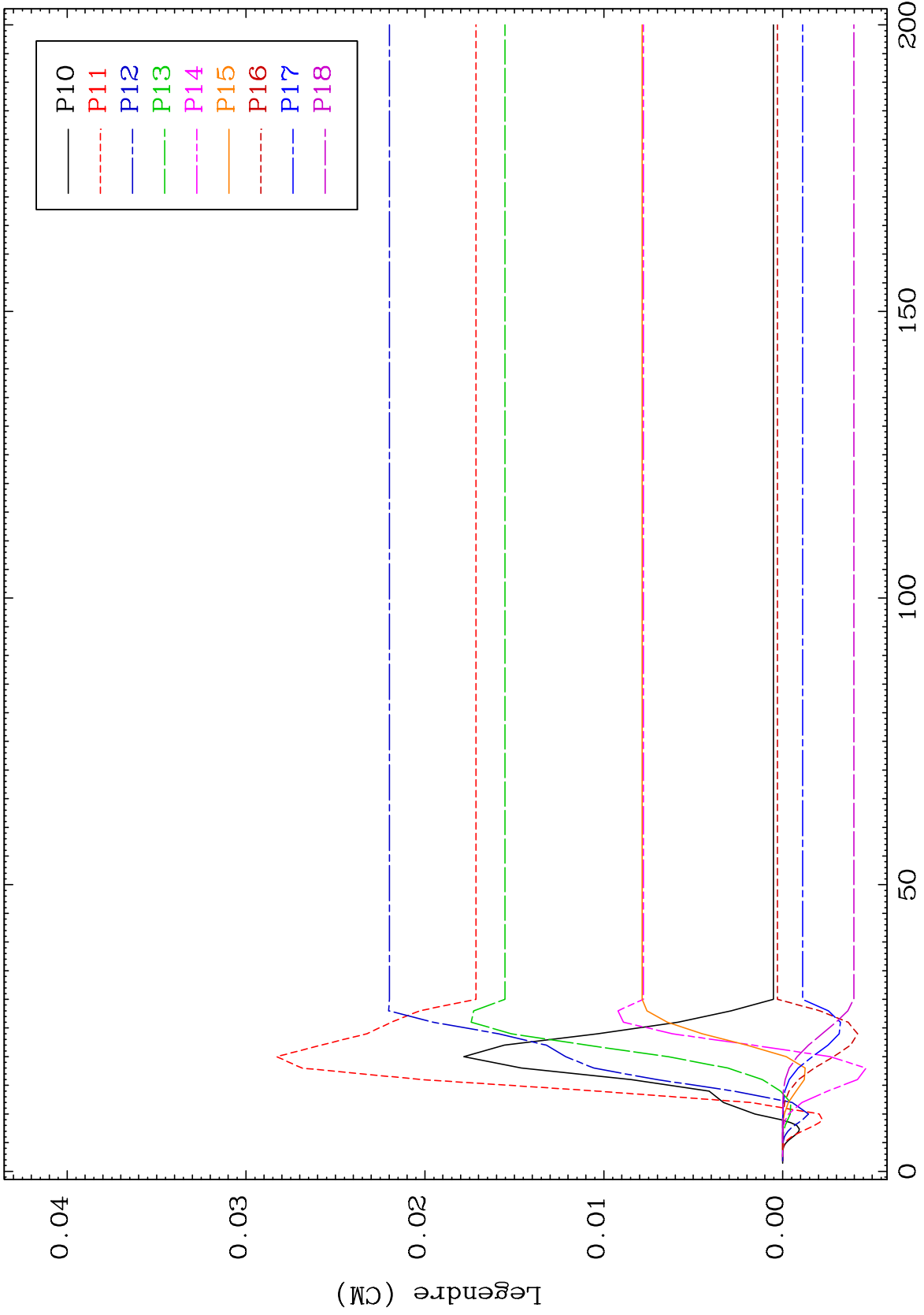
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



66

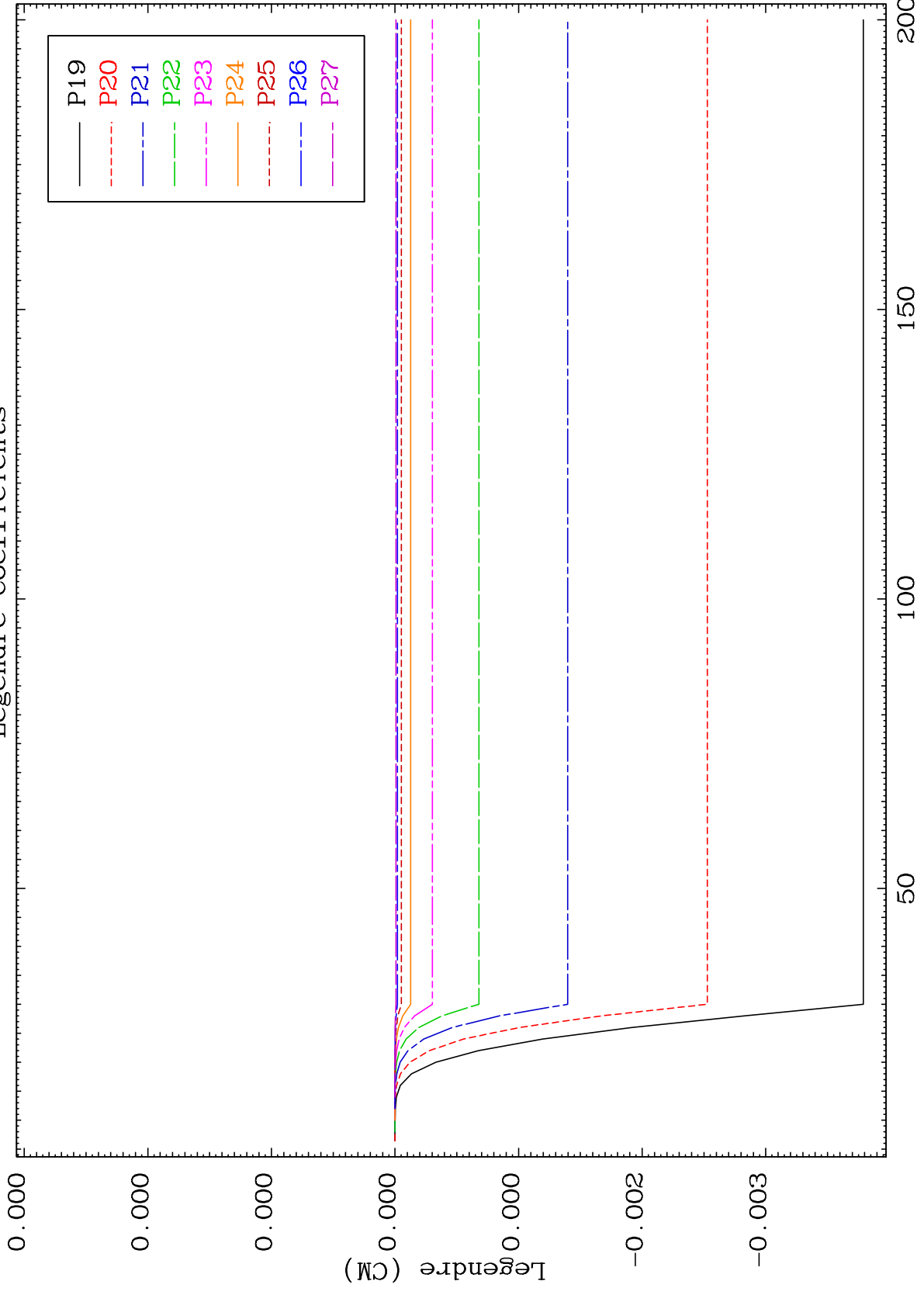
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



67

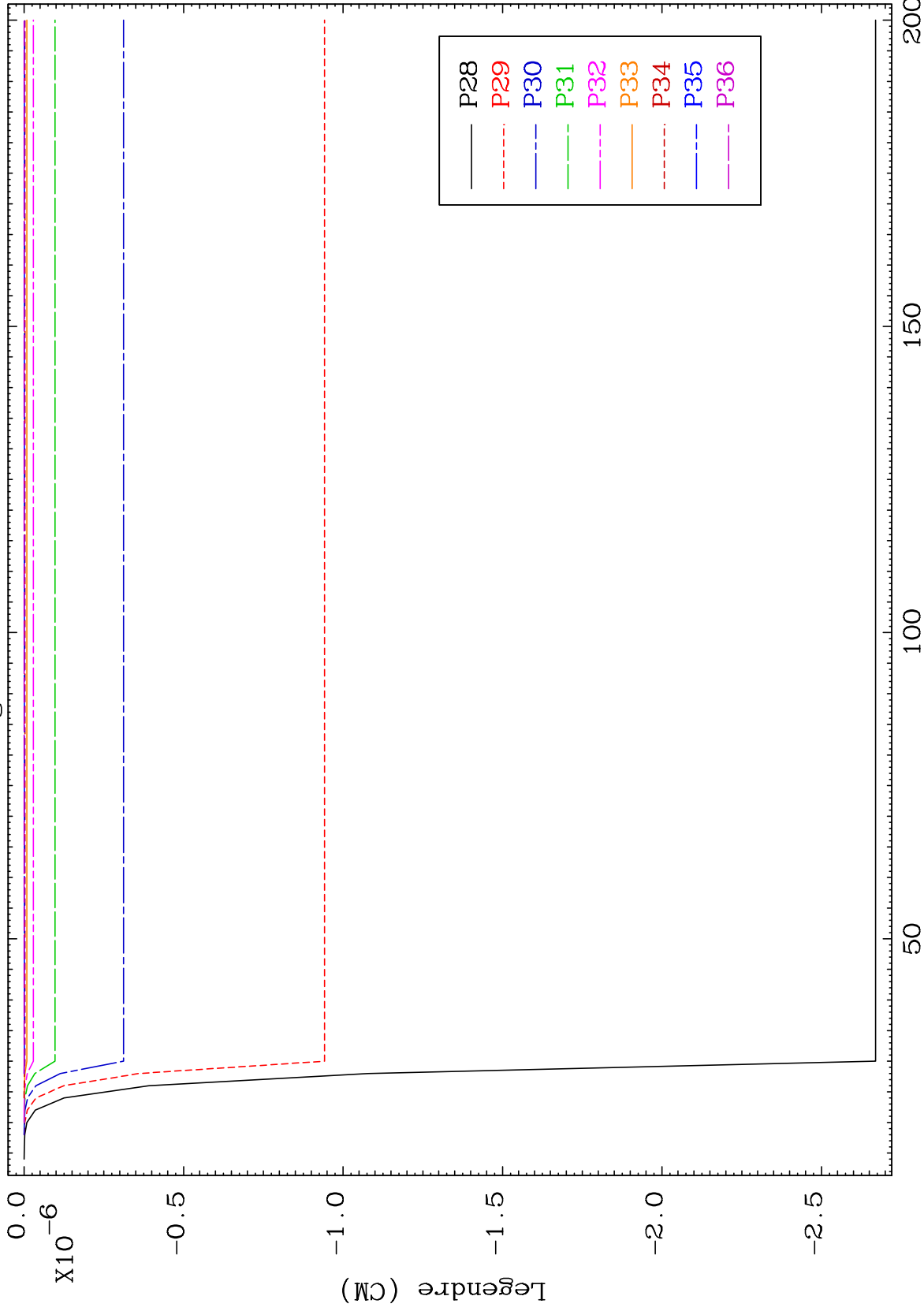
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



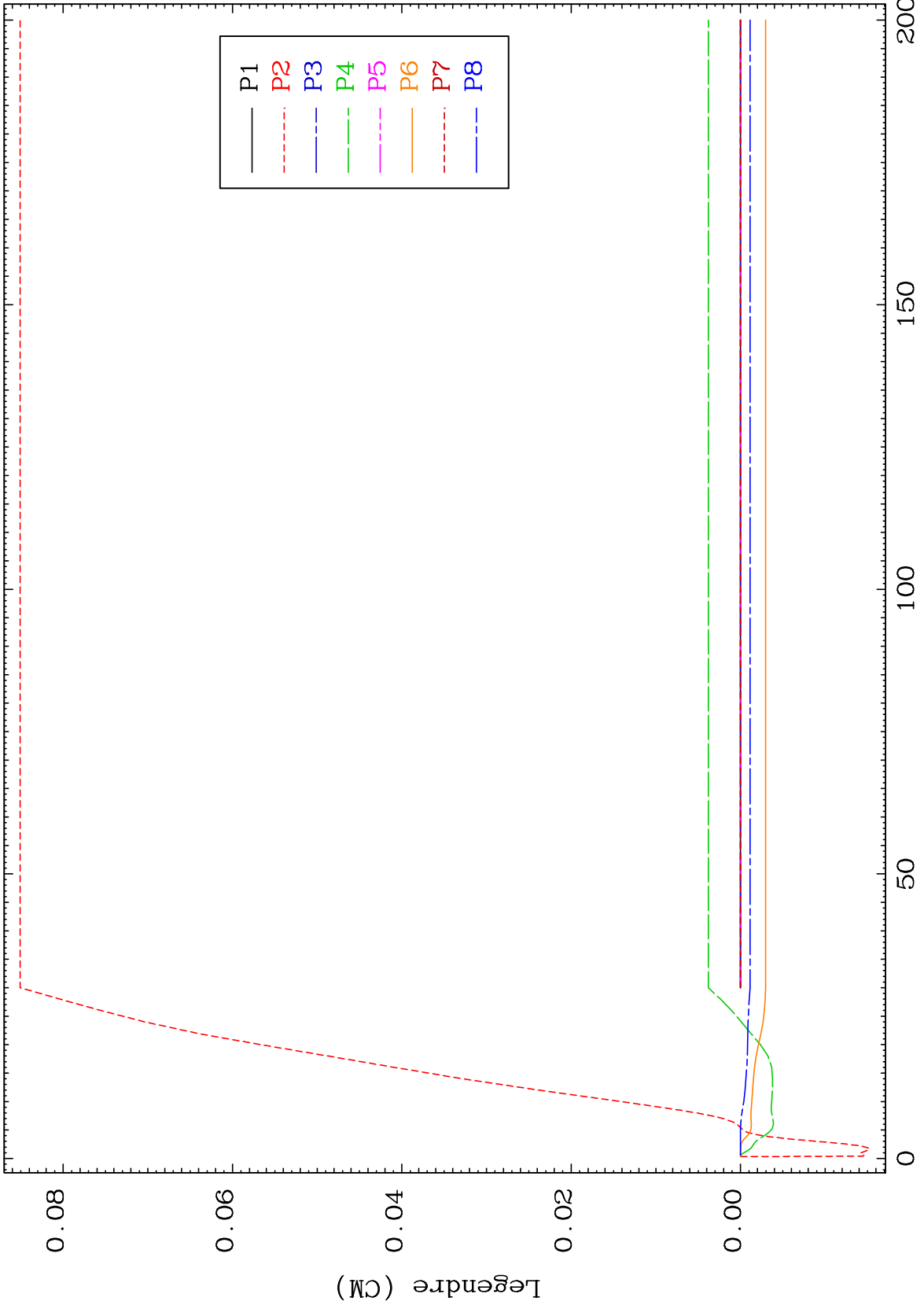
68

51-Sb-122

MAT 5128

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

51-Sb-122



69

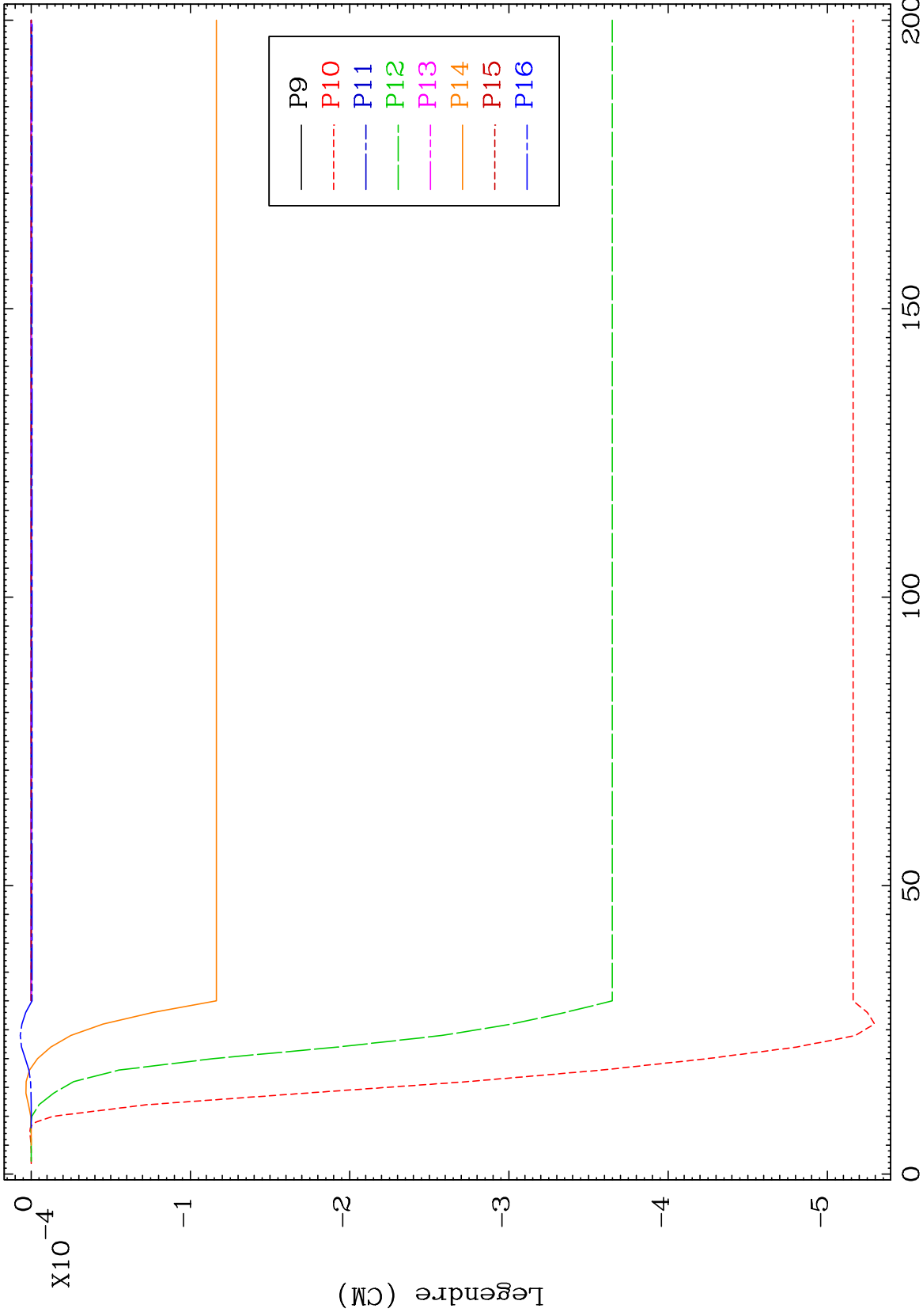
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



0

50

100

150

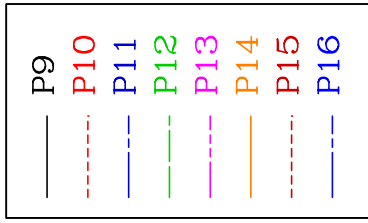
200

Incident Energy (MeV)

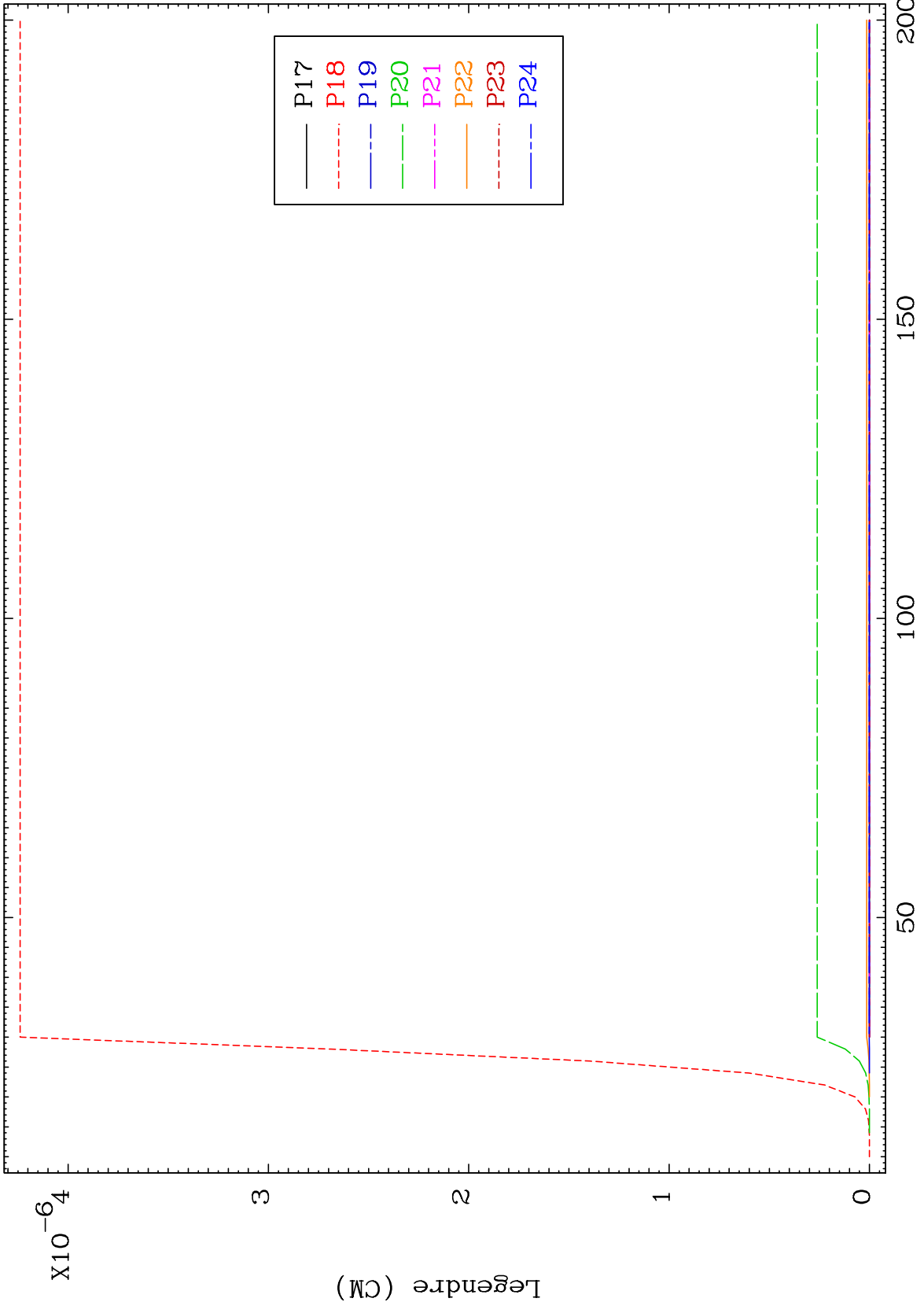
51-Sb-122

Legendre (CM)

$\times 10^{-4}$



MAT 5128 MT= 65 (n,n') Level Legendre Coefficients 51-Sb-122

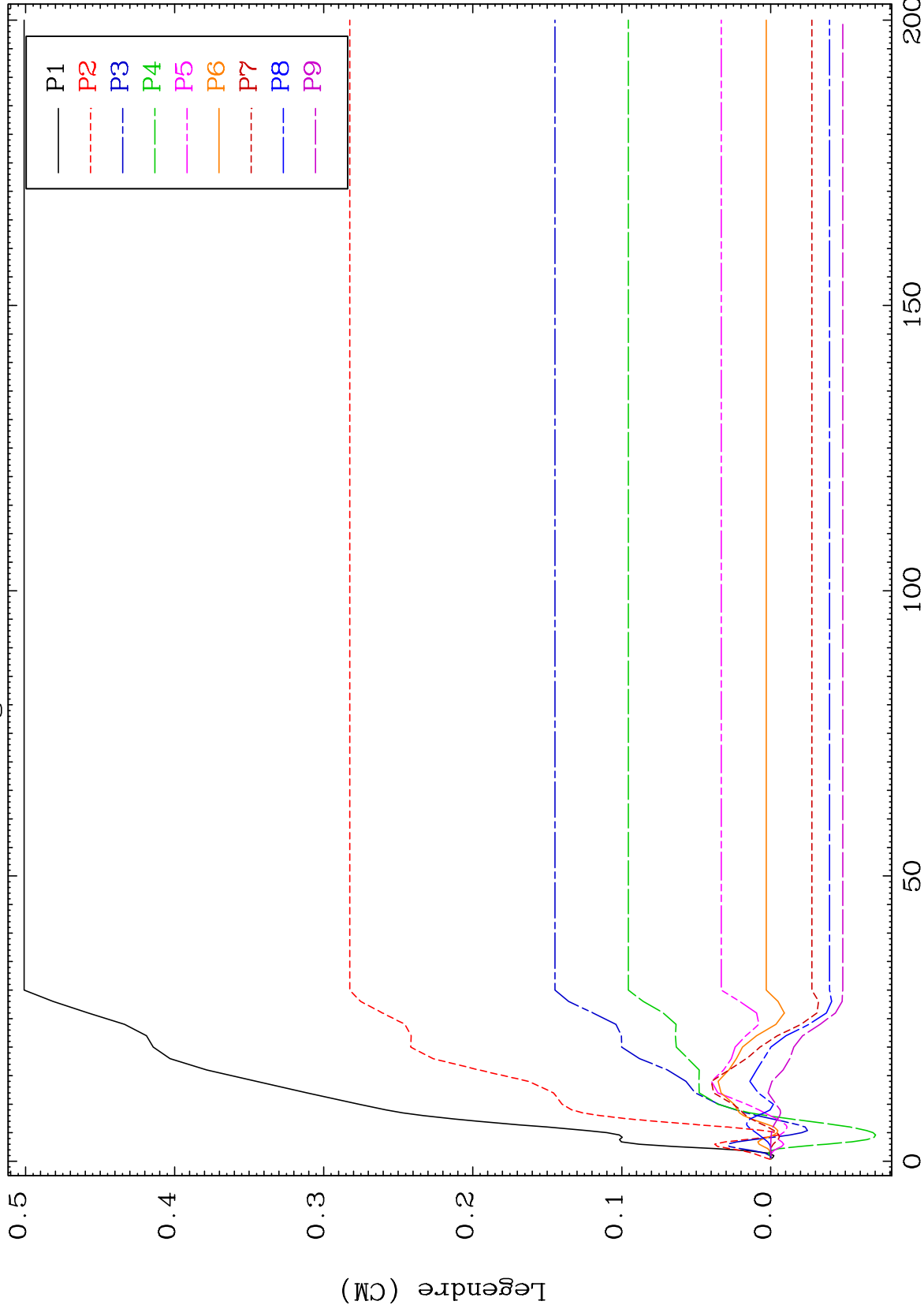


71 51-Sb-122

MAT 5128

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

51-Sb-122



72

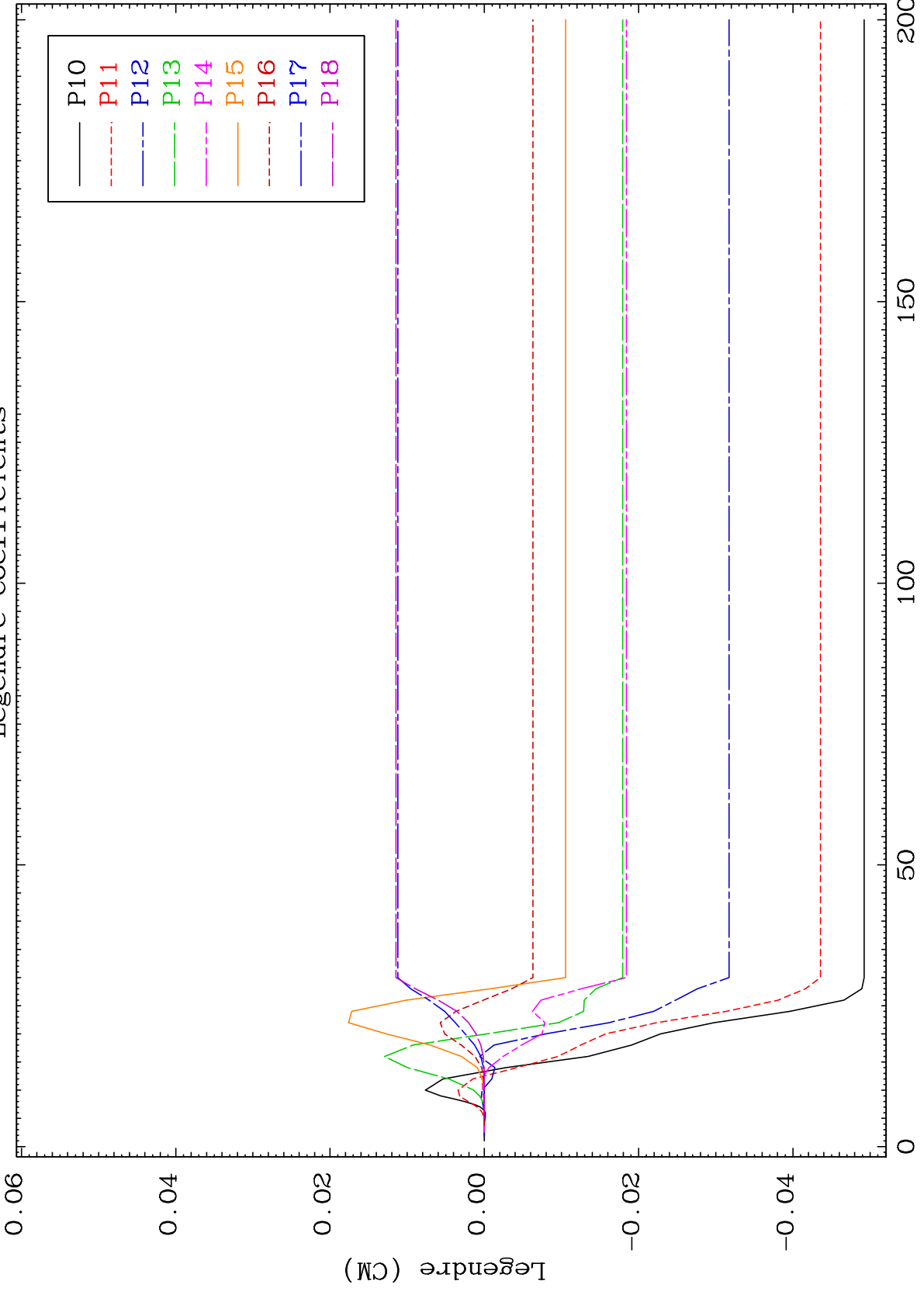
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



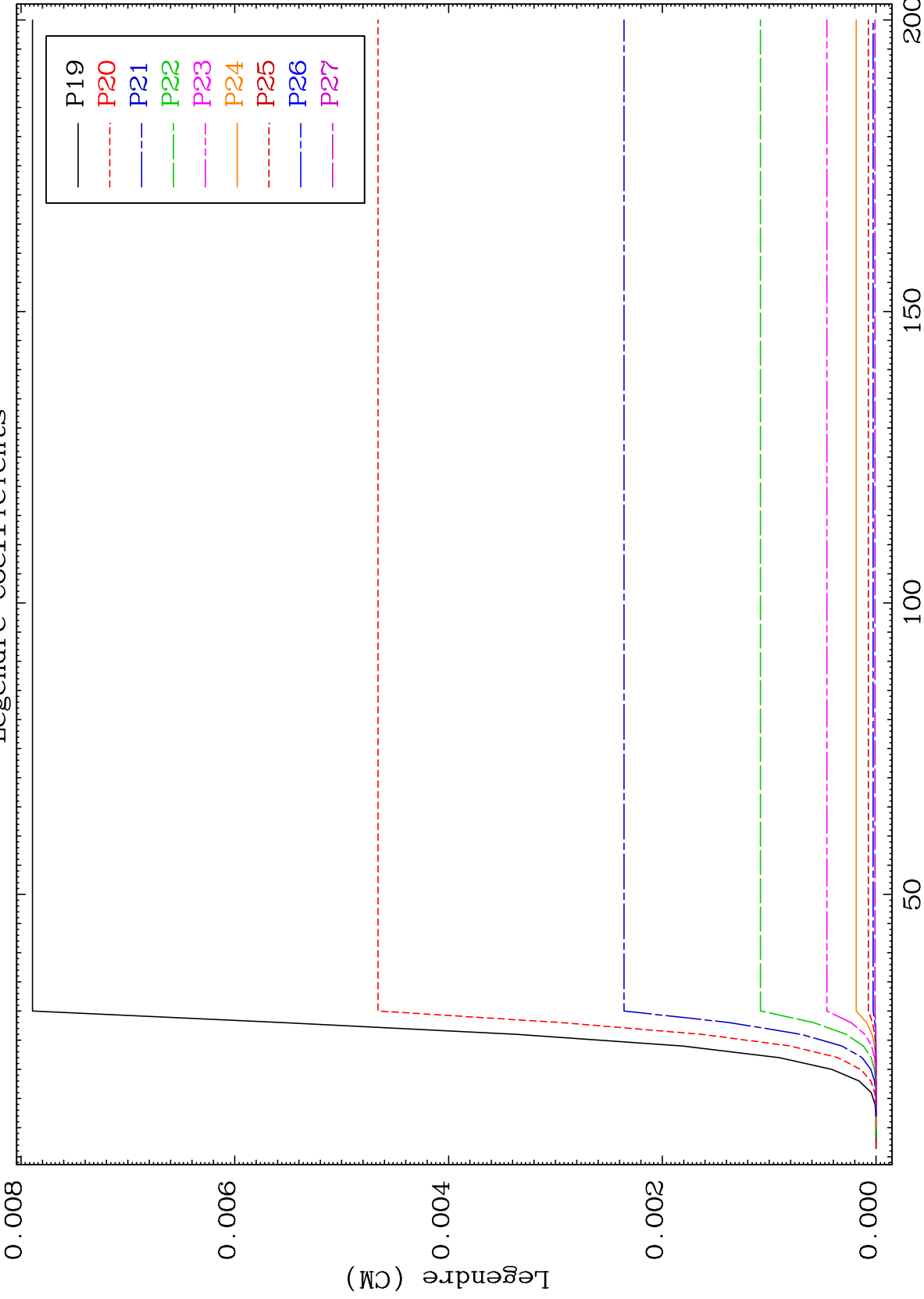
73

Incident Energy (MeV)

51-Sb-122

MAT 5128 MT= 66 (n,n') Level Legendre Coefficients

51-Sb-122



51-Sb-122

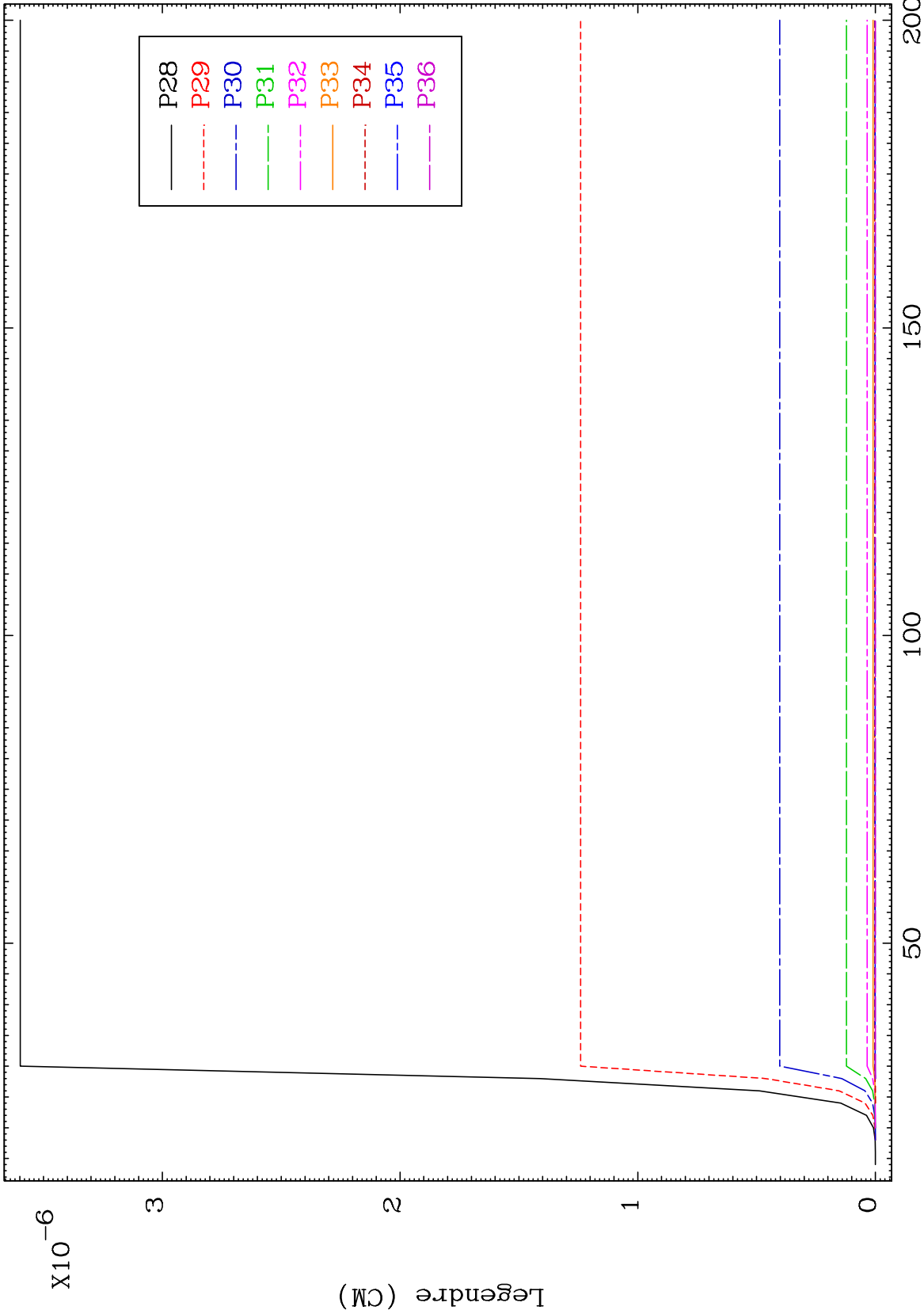
Incident Energy (MeV)

74

MAT 5128

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

51-Sb-122



75

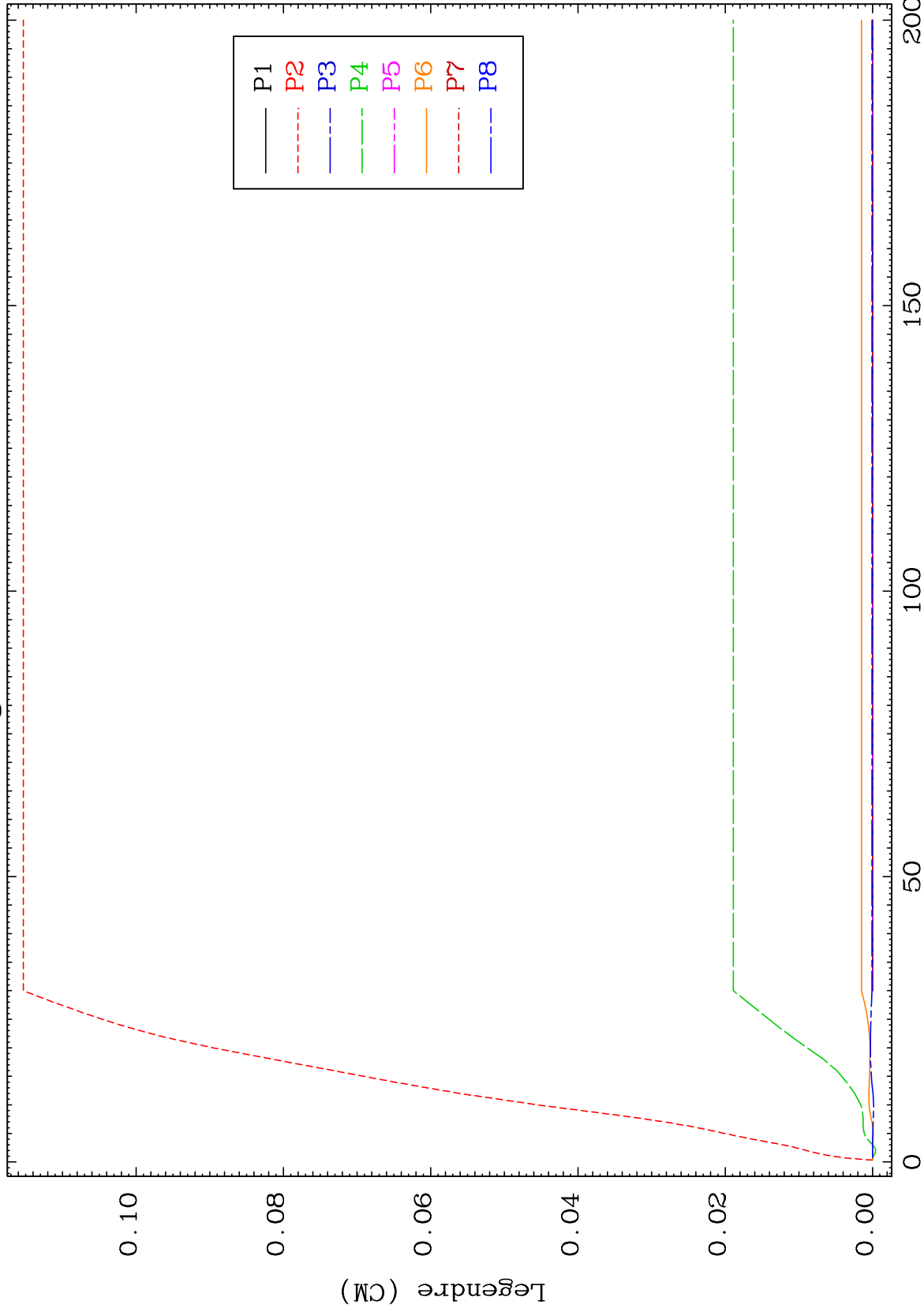
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



76

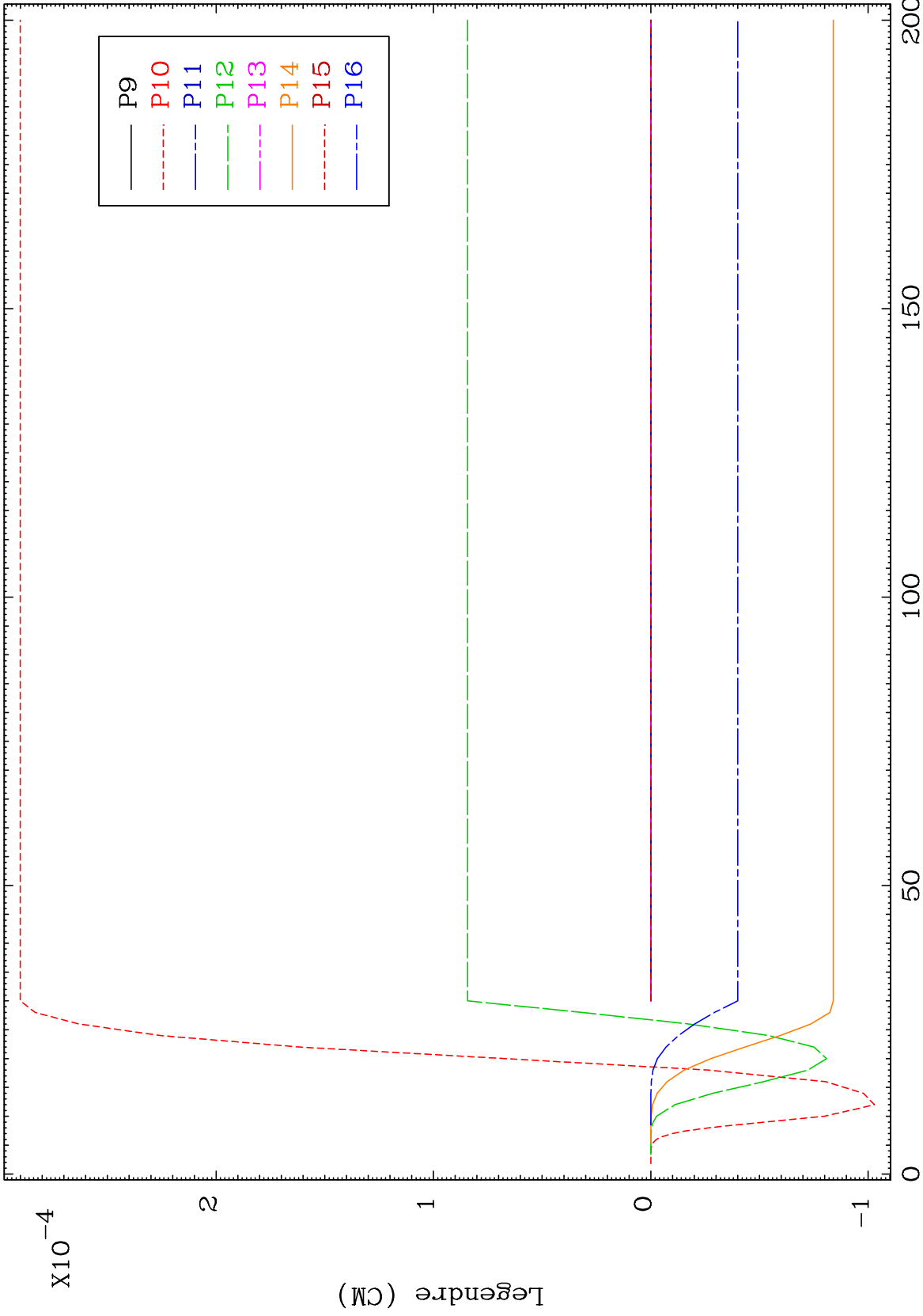
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



77

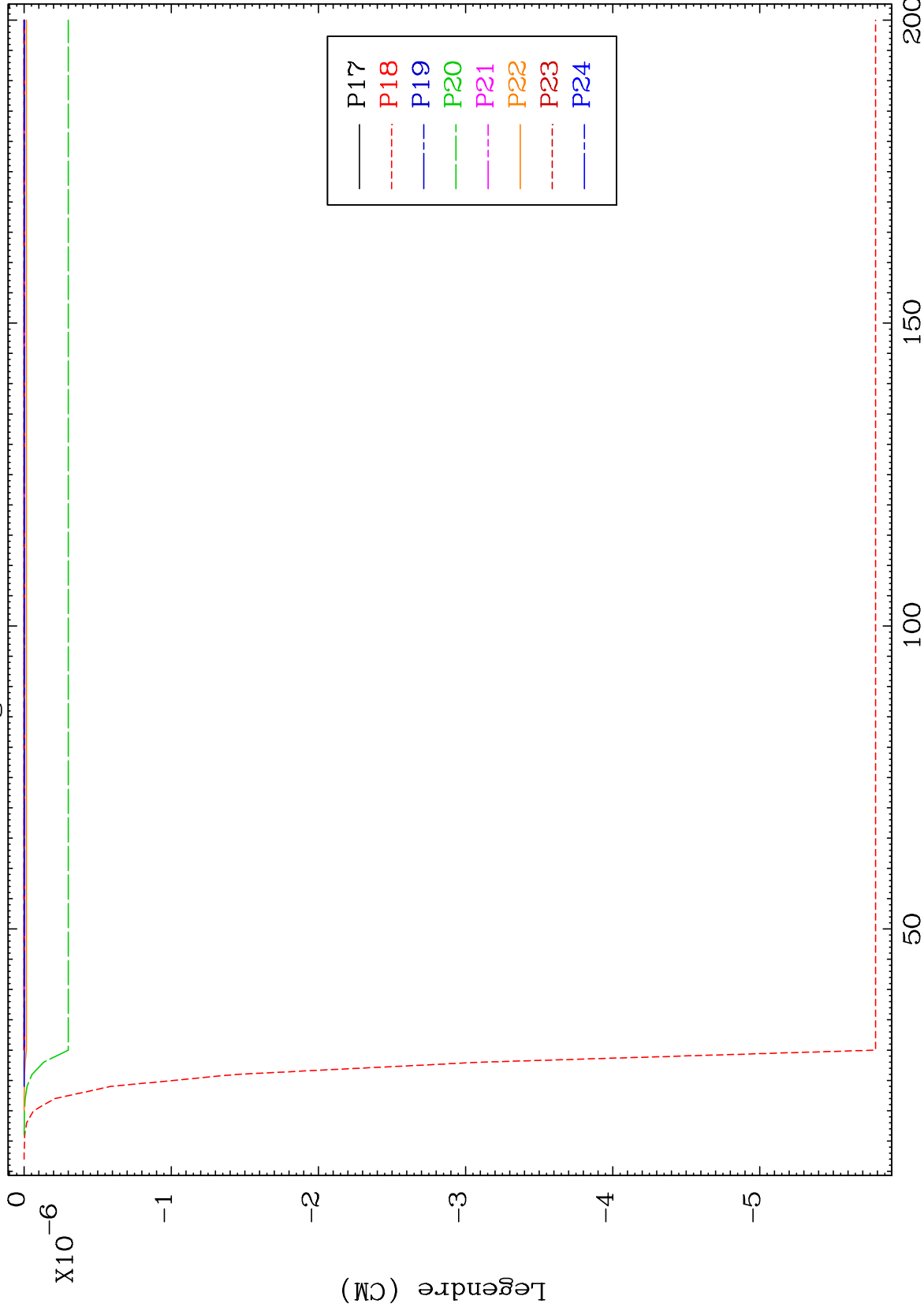
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



78

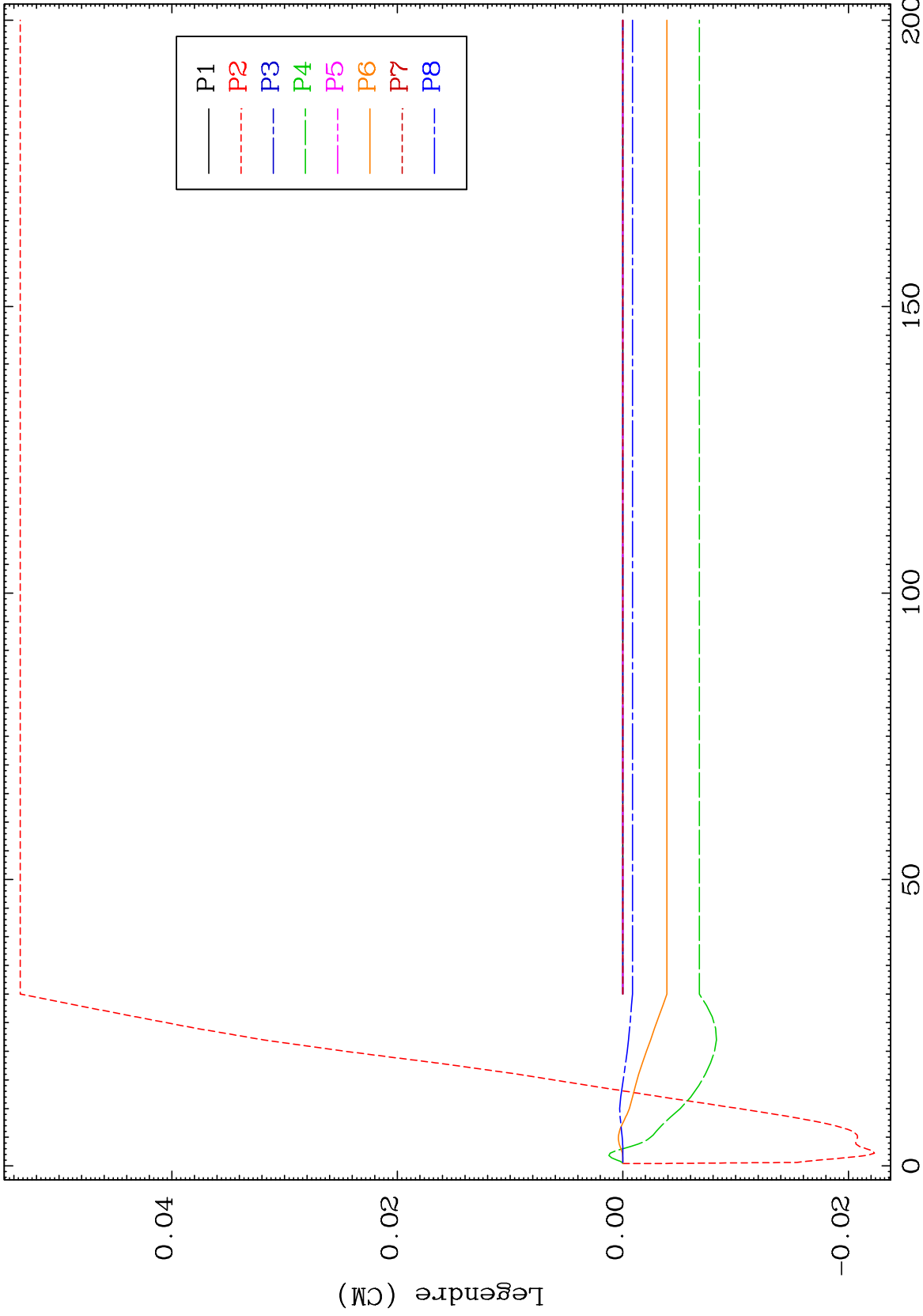
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



79

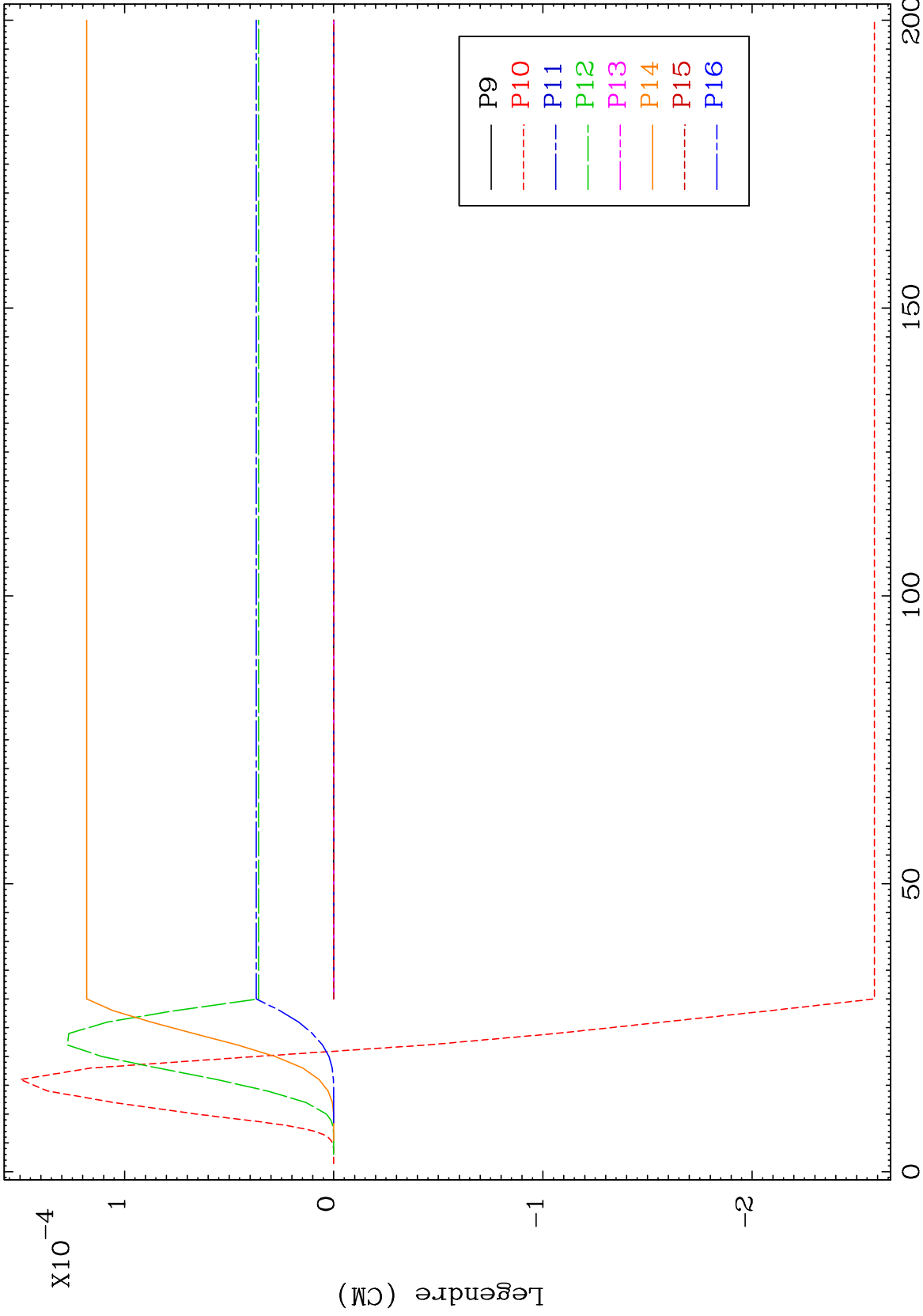
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



80

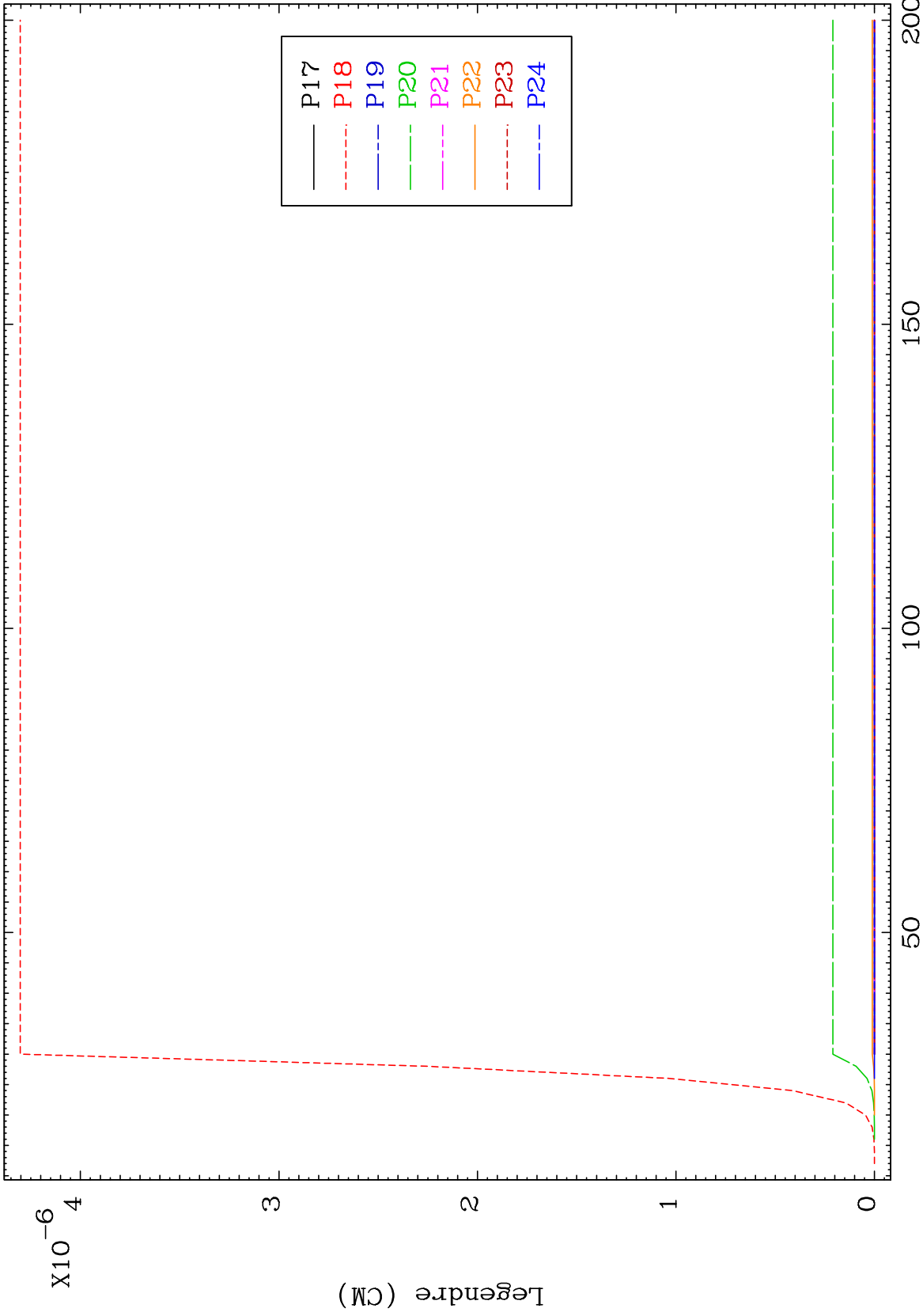
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



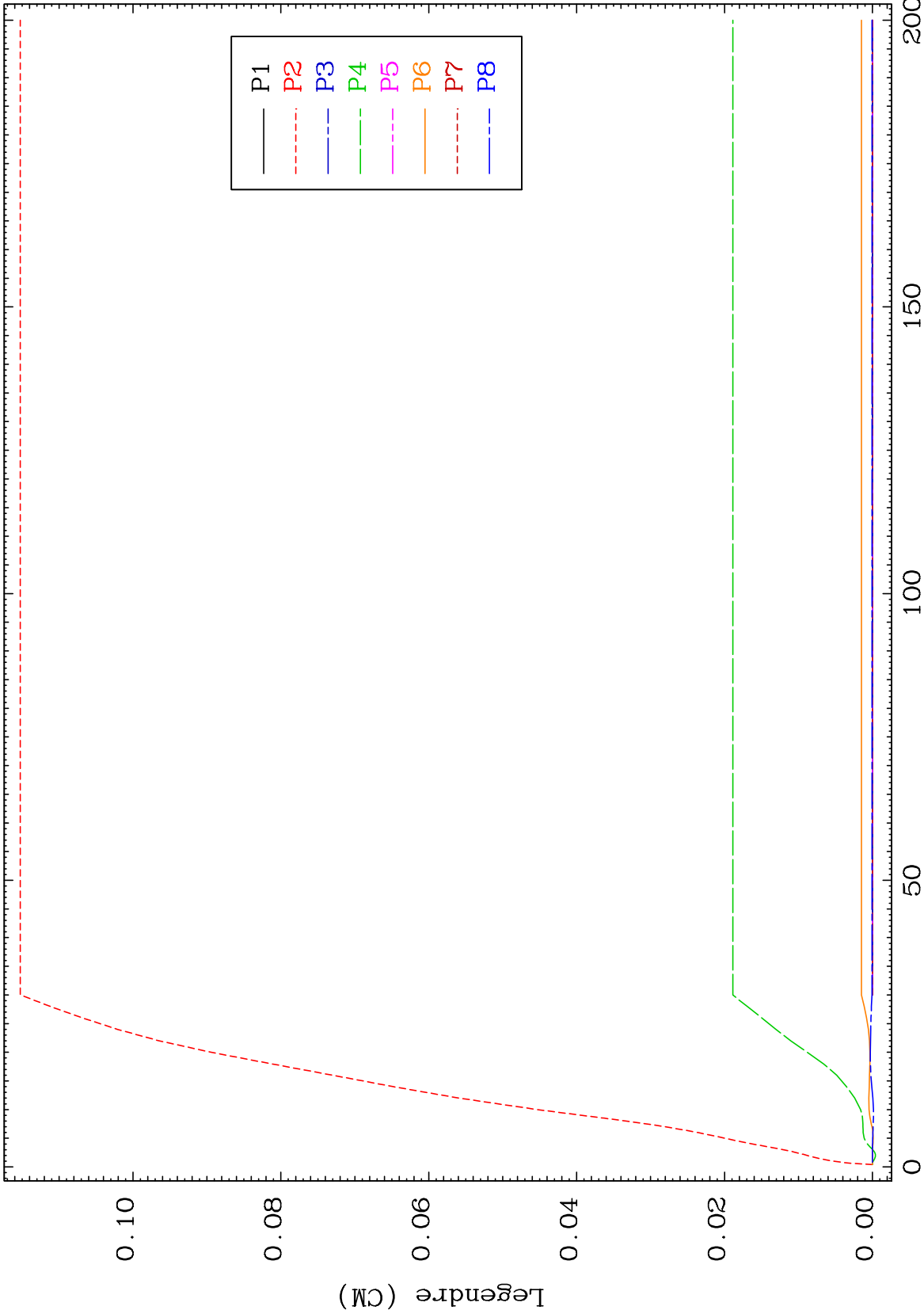
81

51-Sb-122

MAT 5128

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

51-Sb-122



82

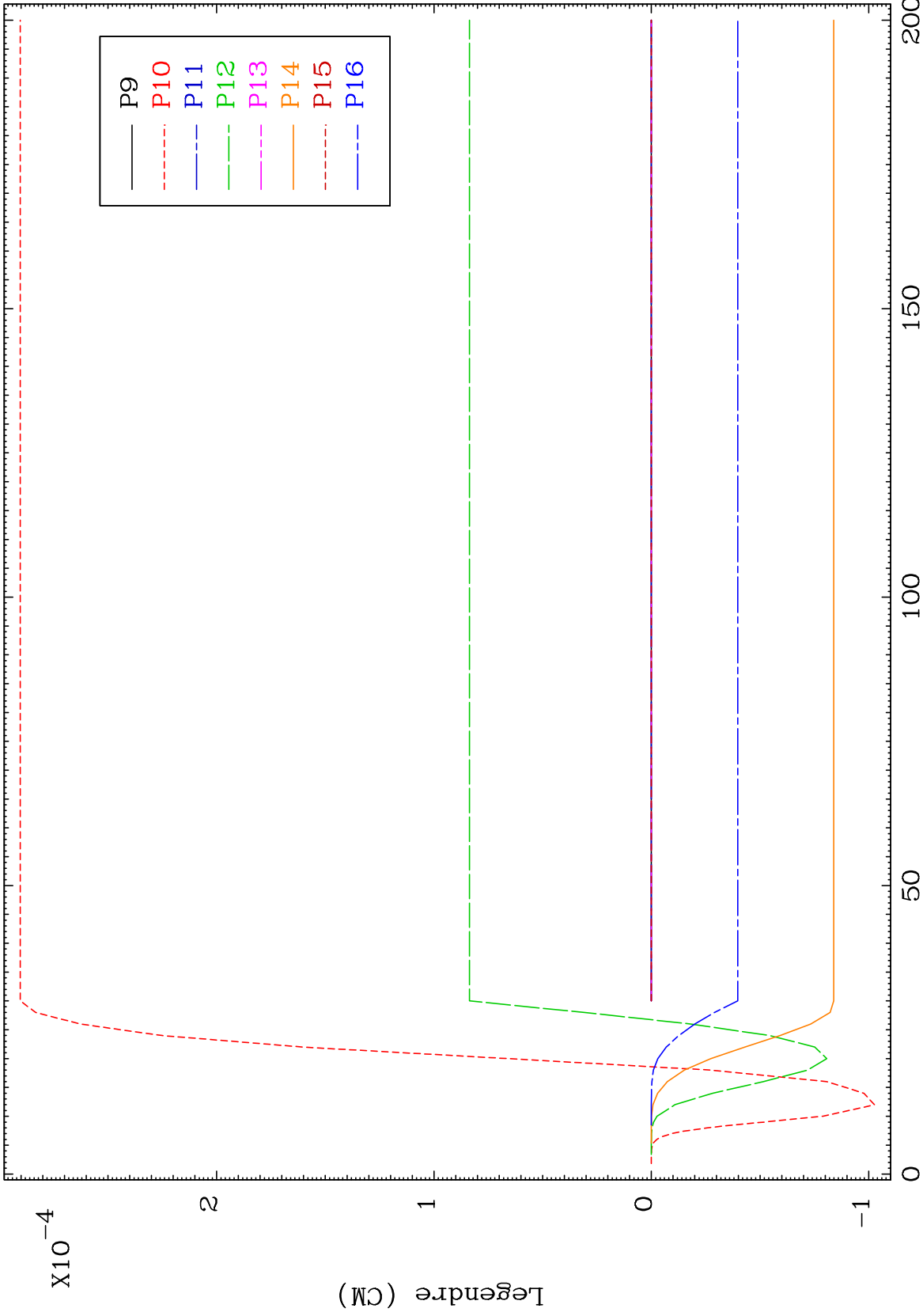
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



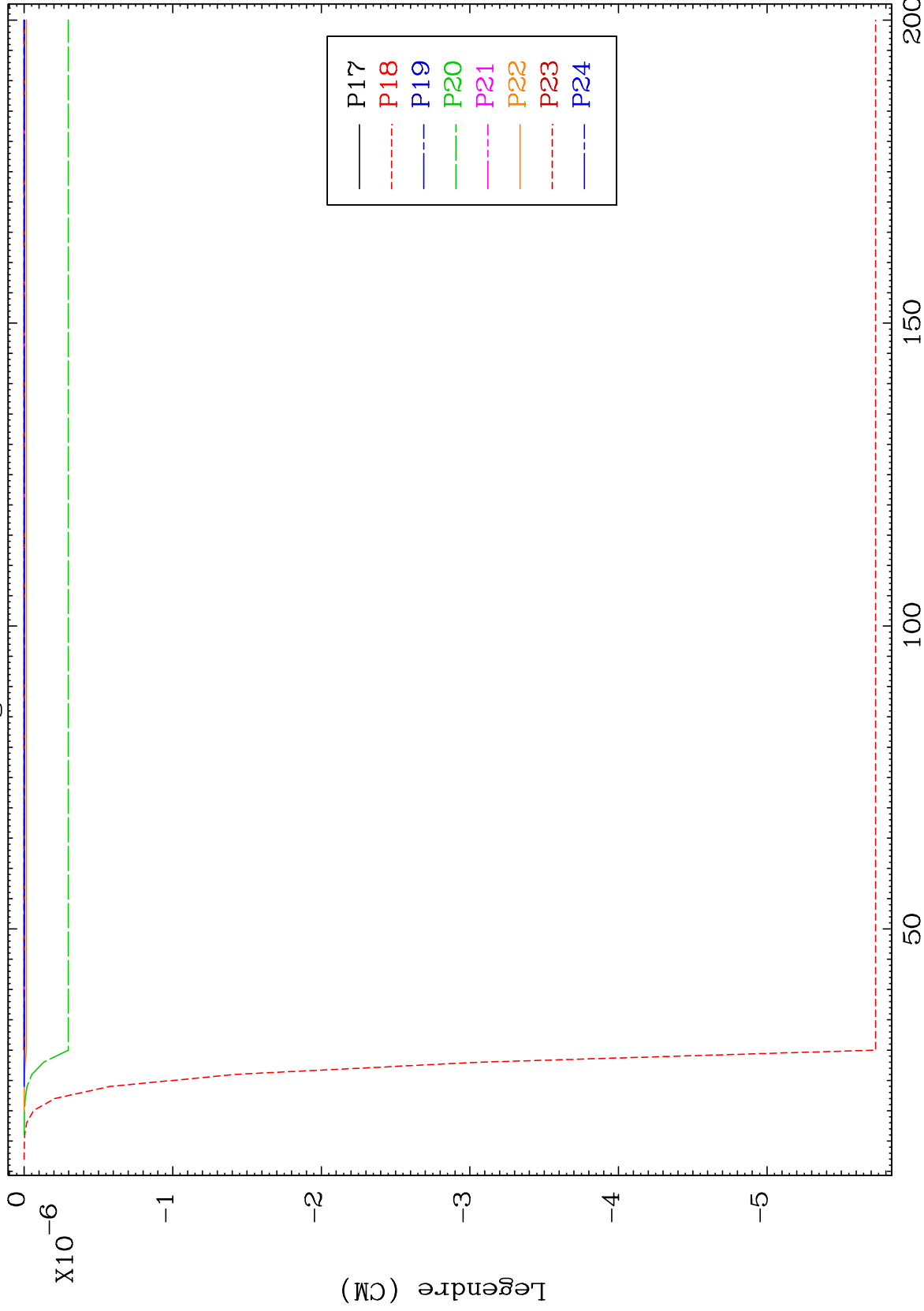
83

51-Sb-122

MAT 5128

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

51-Sb-122



84

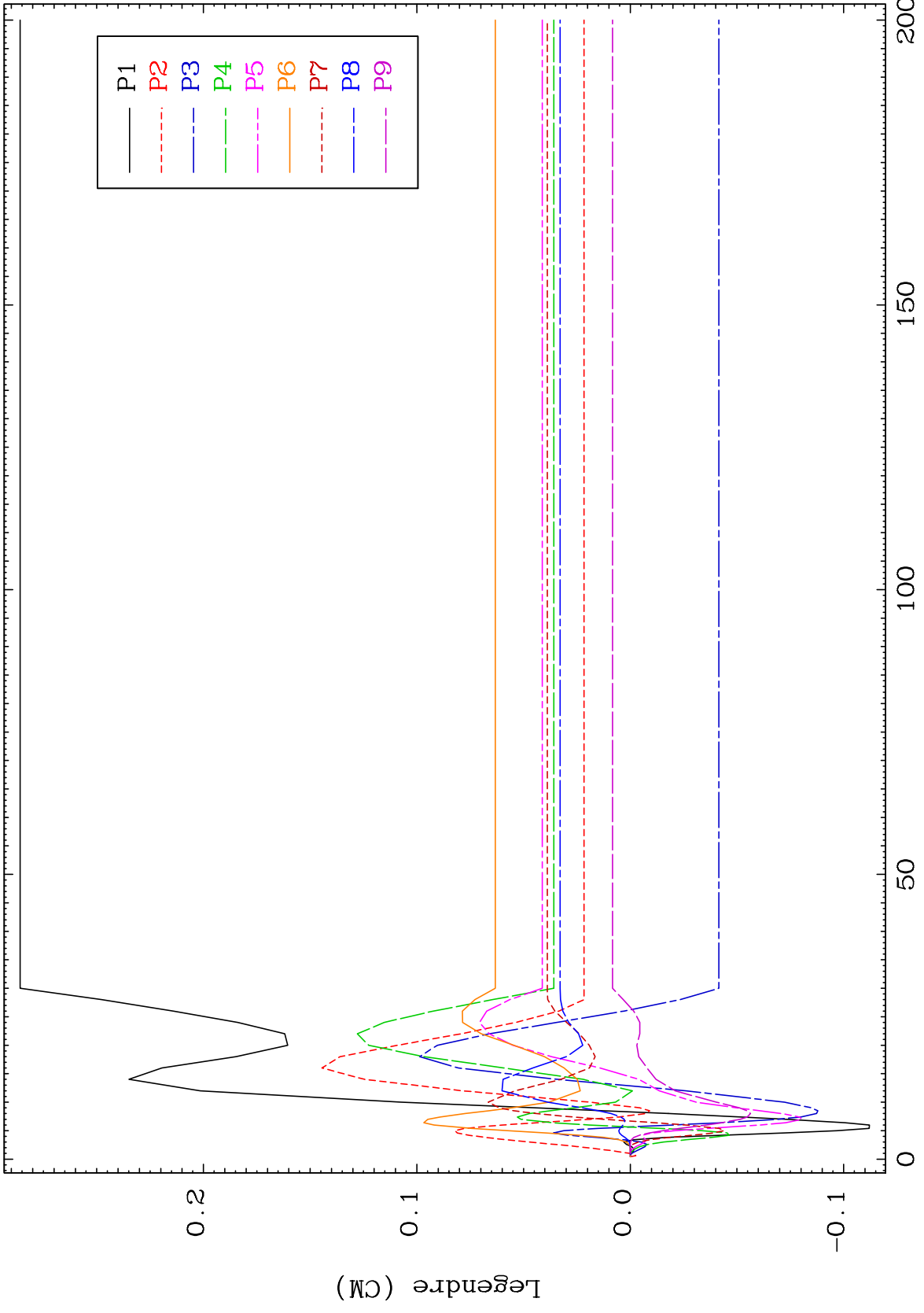
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



85

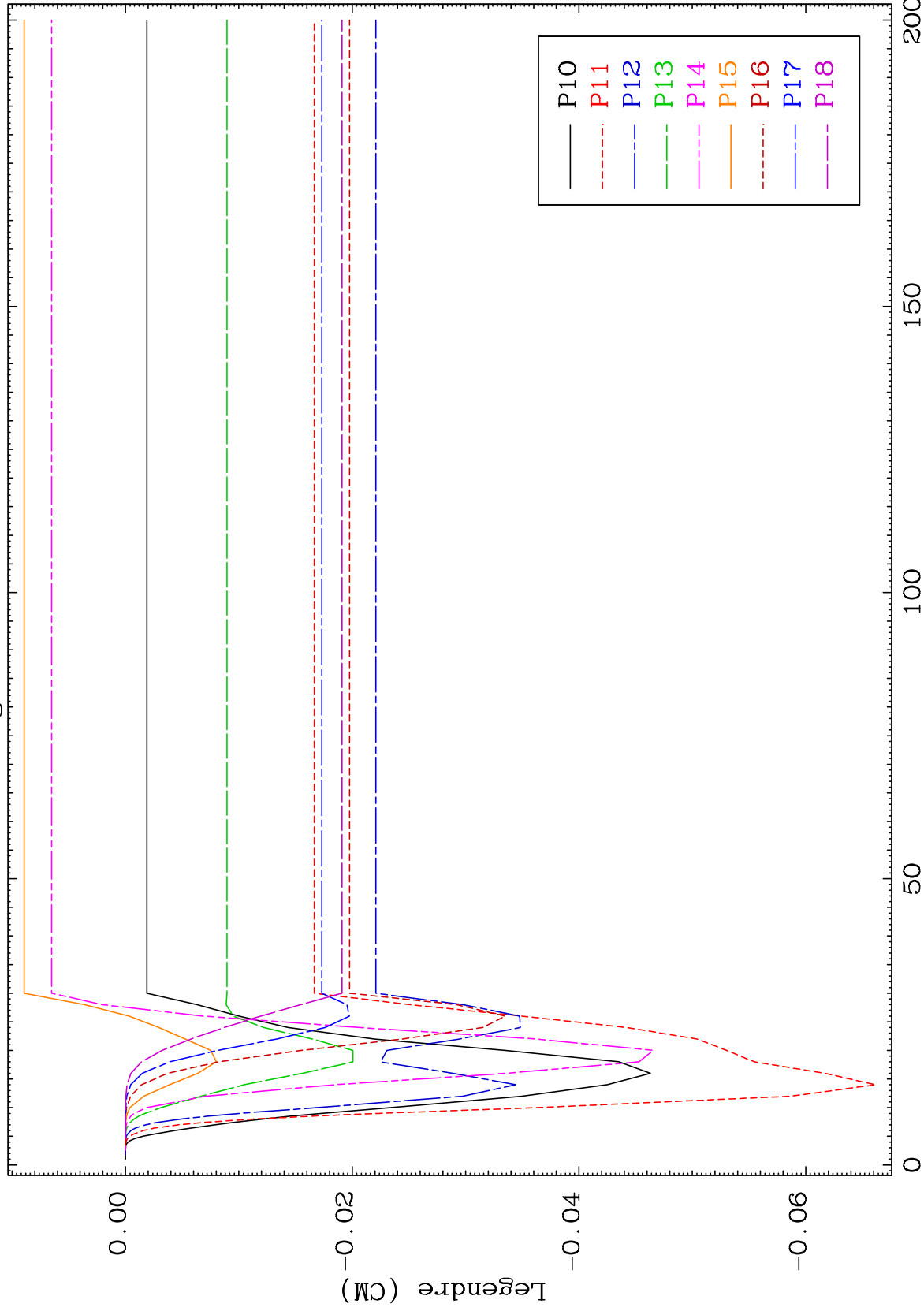
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122

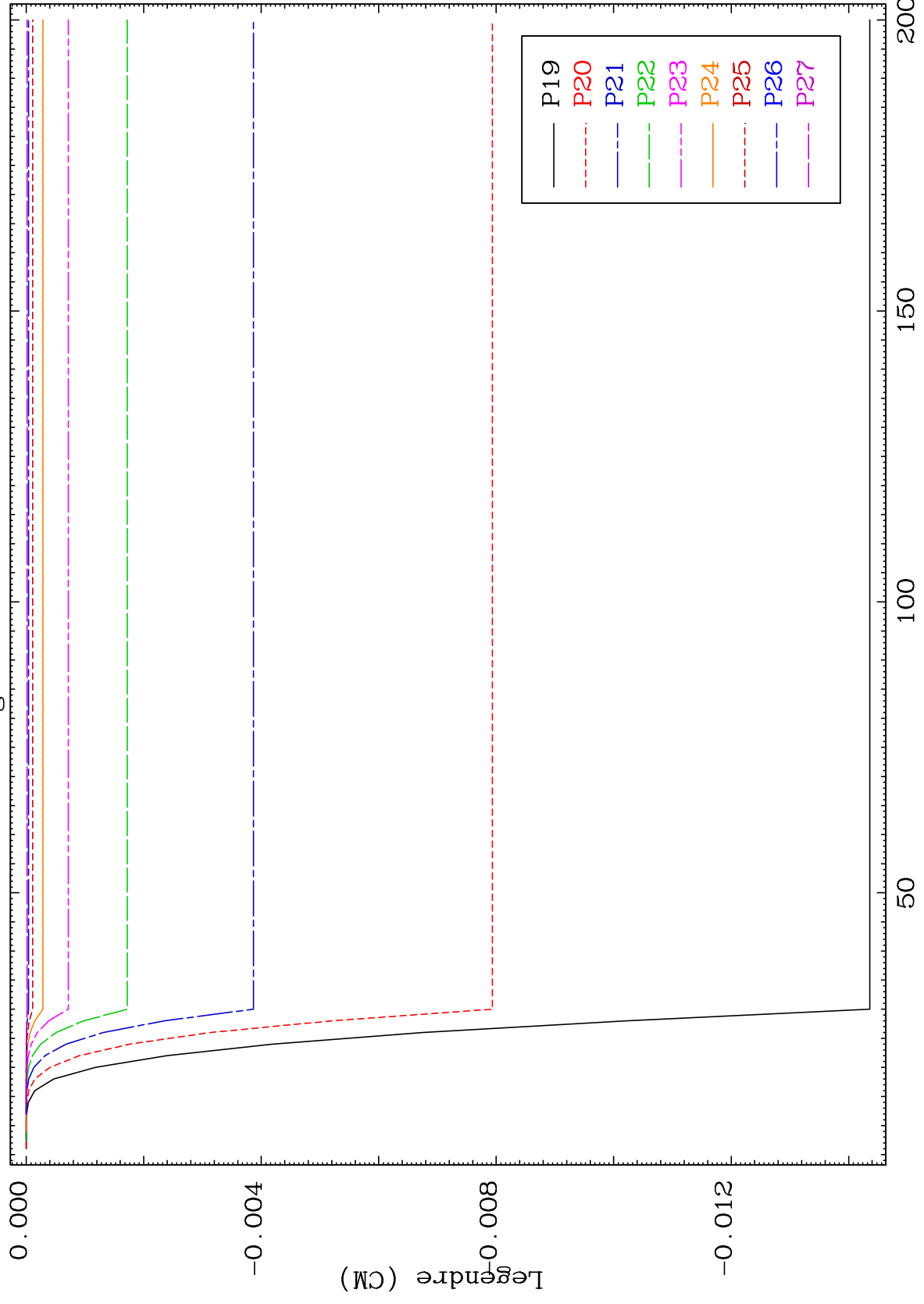


86

Incident Energy (MeV)

51-Sb-122

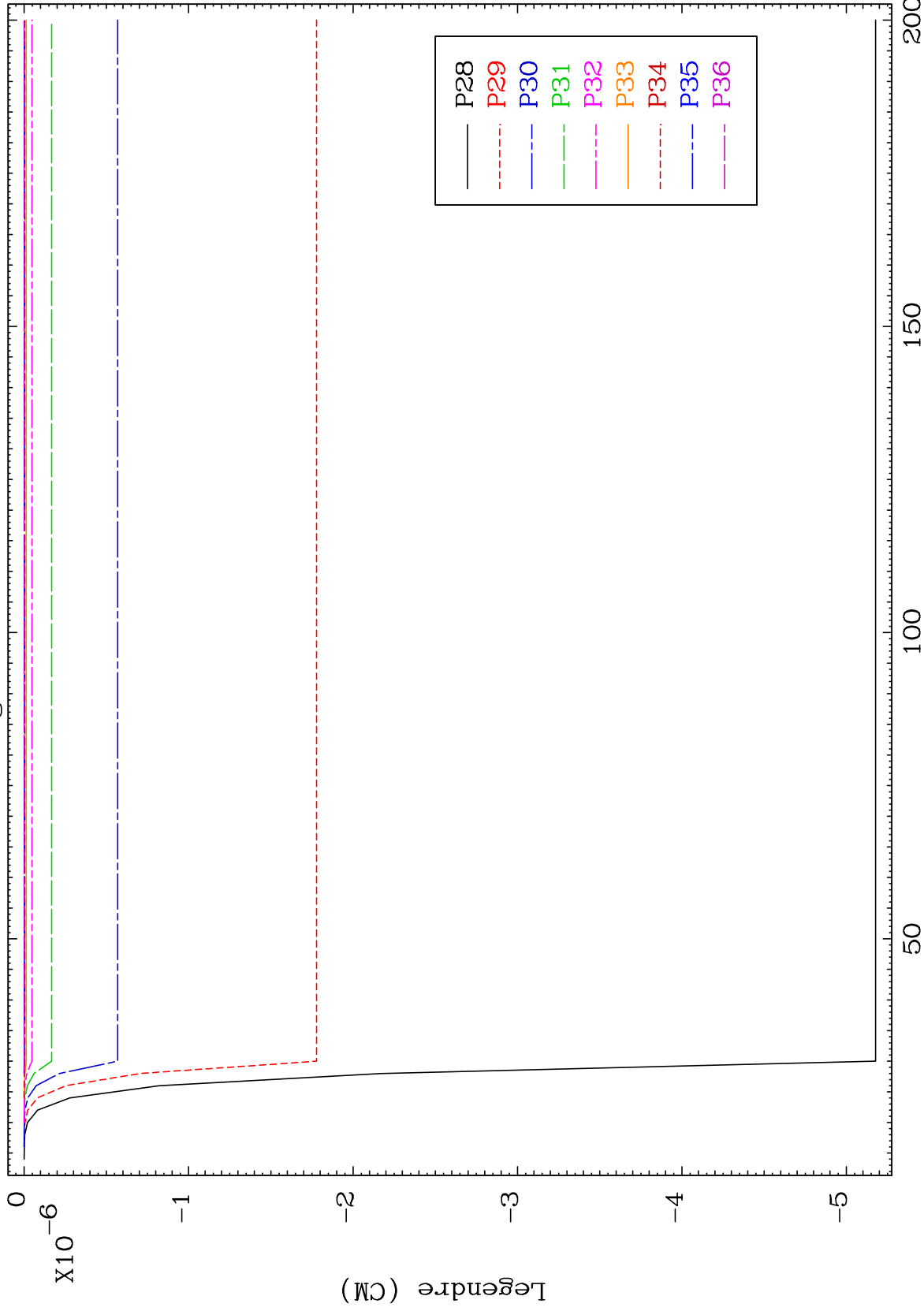
MAT 5128 MT= 70 (n,n') Level Legendre Coefficients 51-Sb-122



MAT 5128

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

51-Sb-122



88

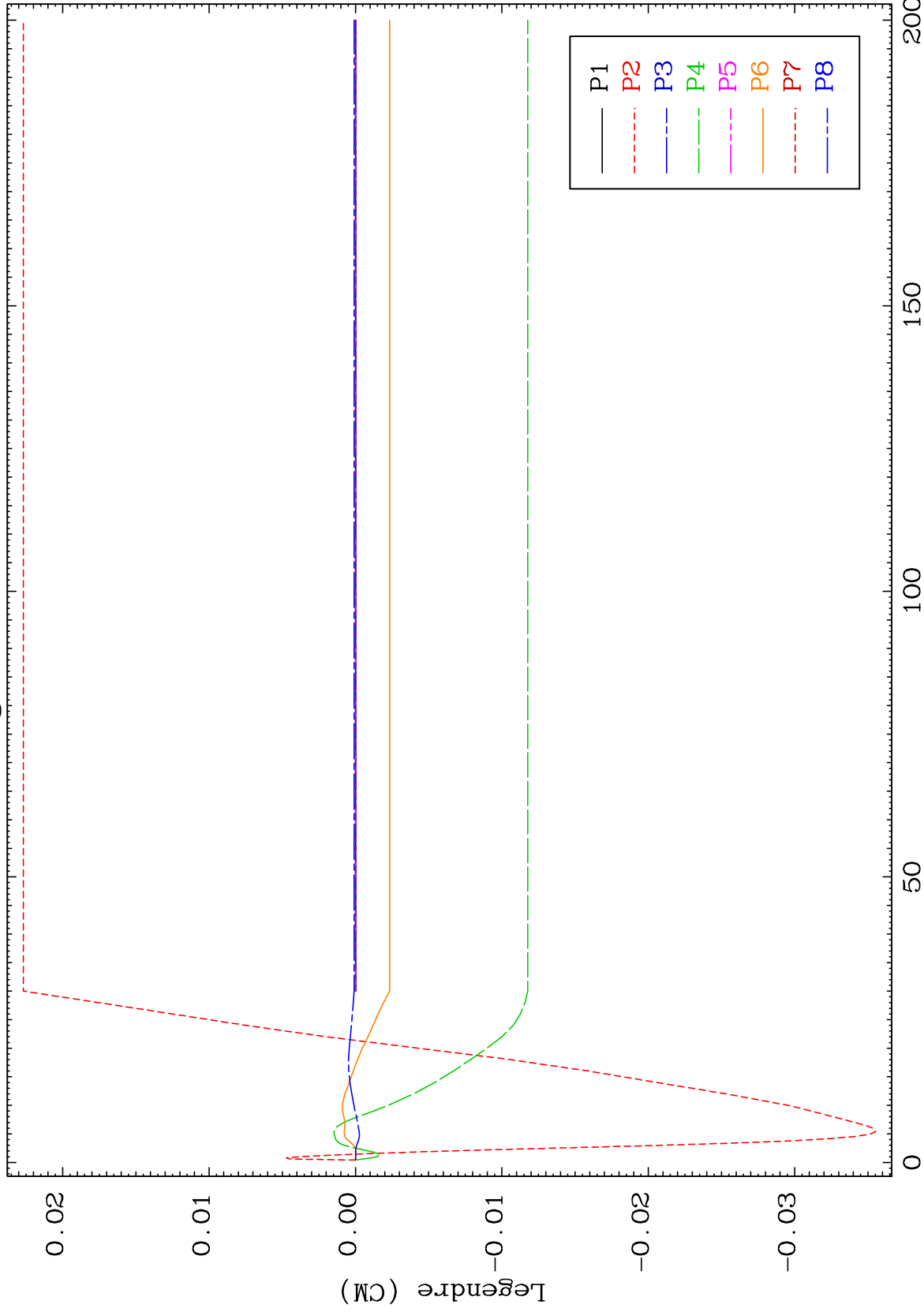
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



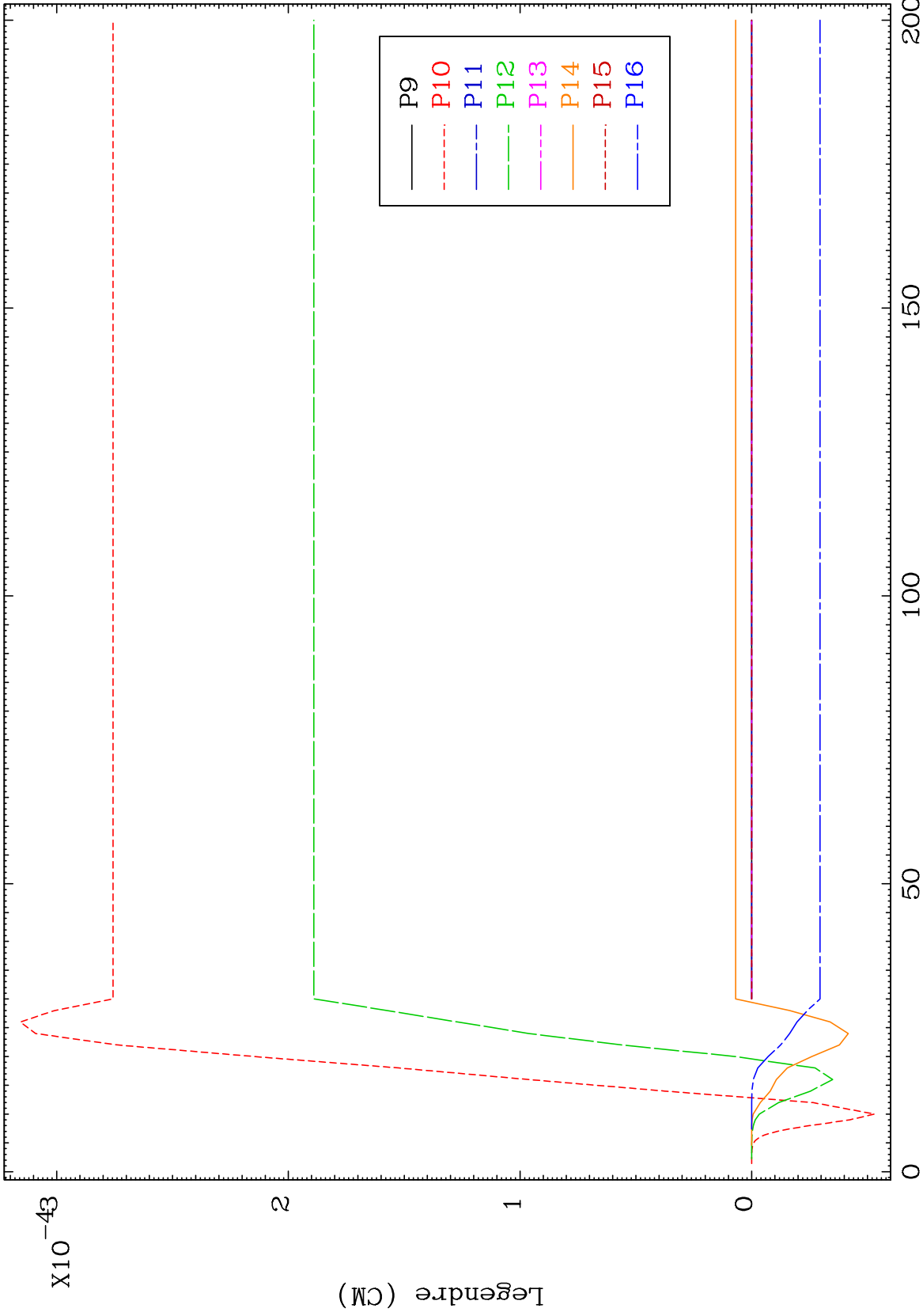
89

51-Sb-122

MAT 5128

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

51-Sb-122



90

Incident Energy (MeV)

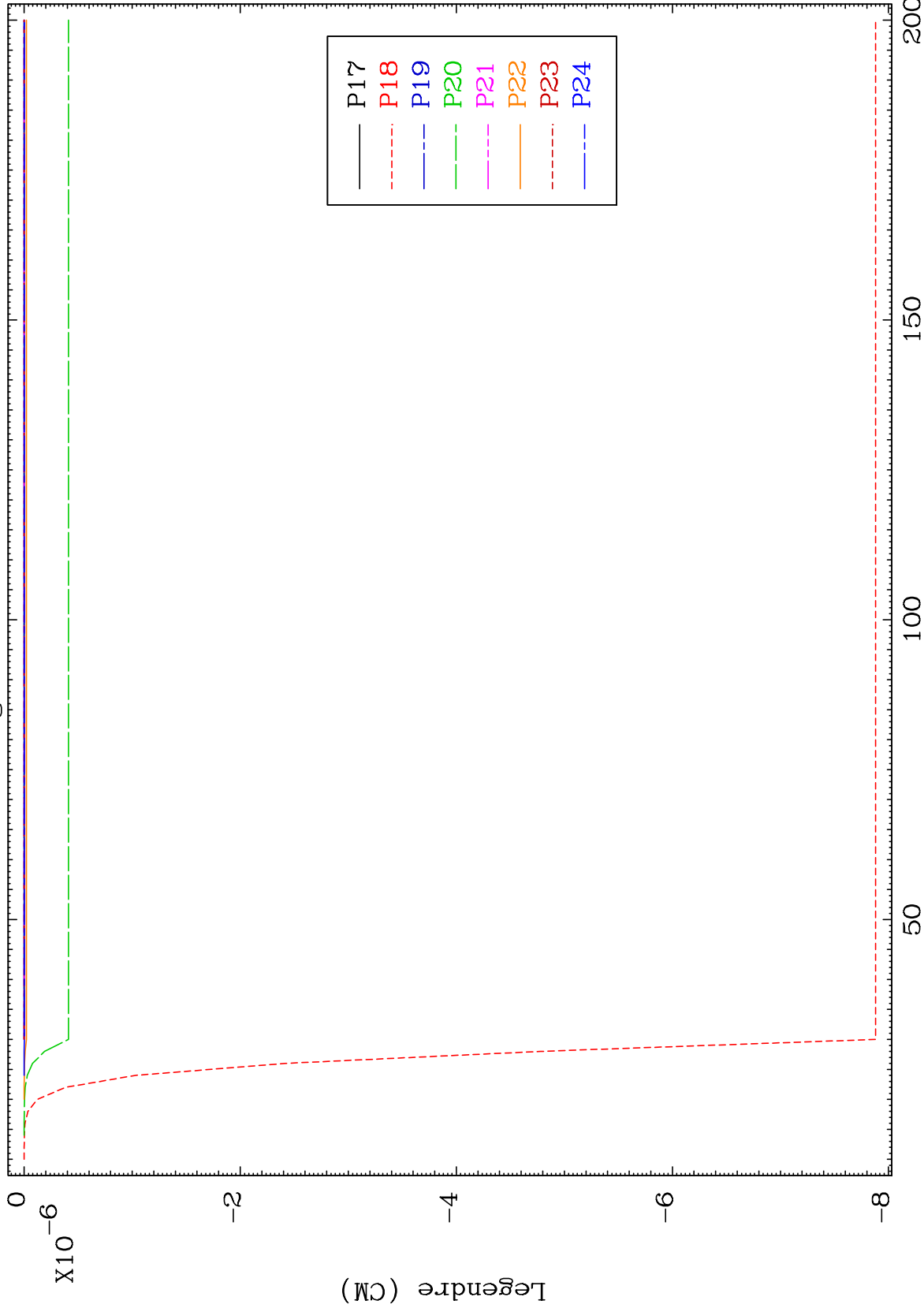
150

51-Sb-122

MAT 5128

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

51-Sb-122



91

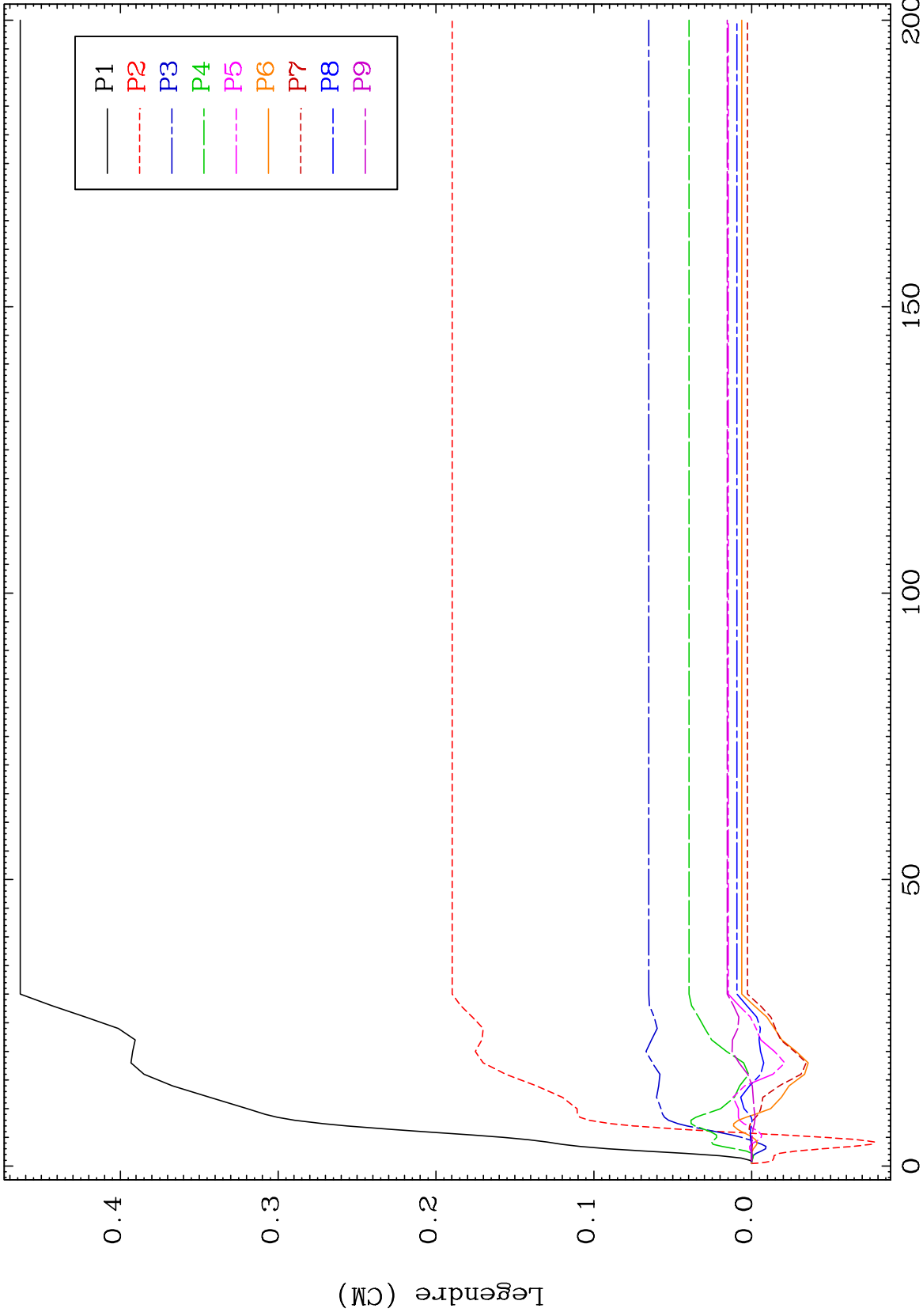
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



92

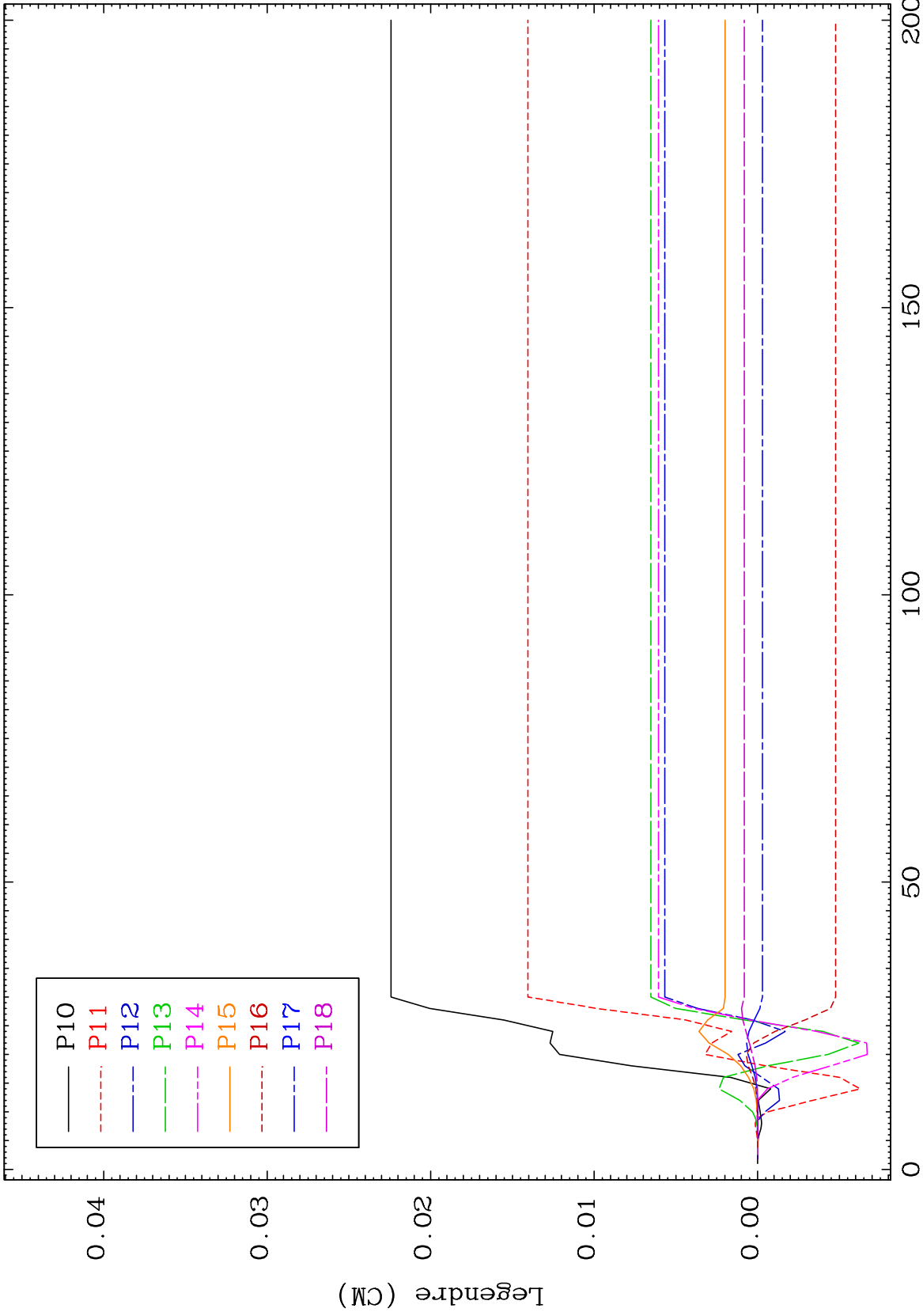
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



93

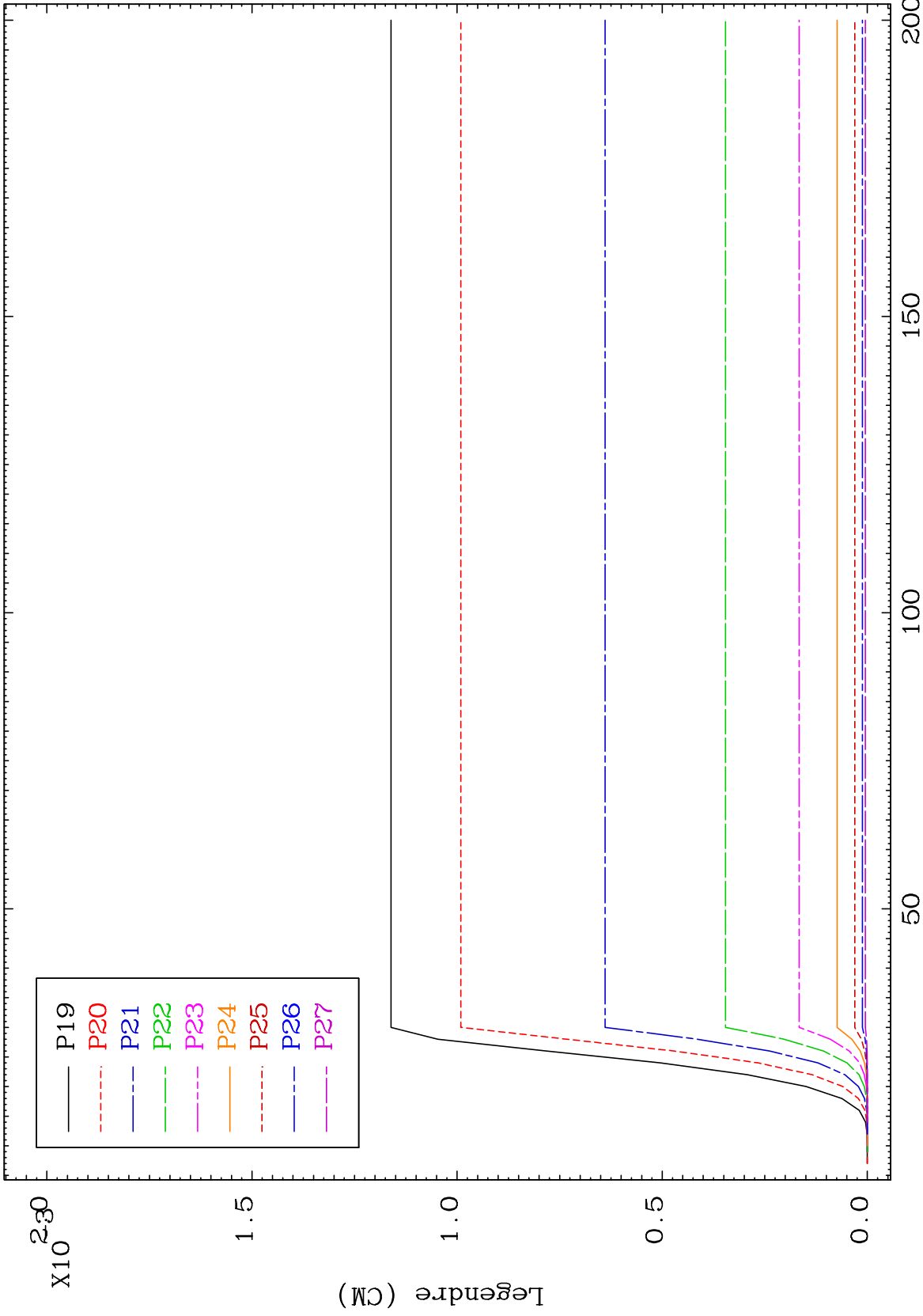
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



94

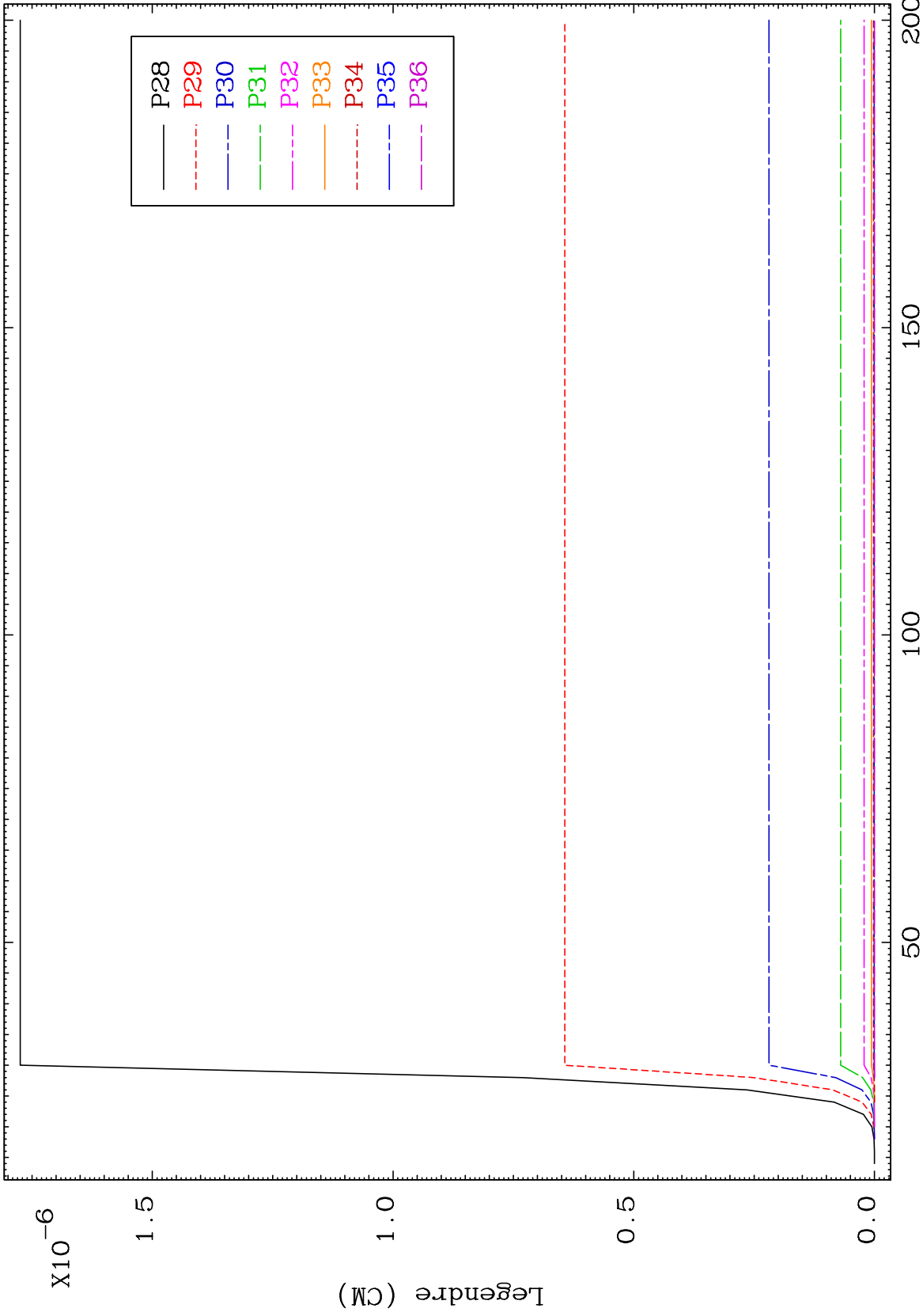
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



95

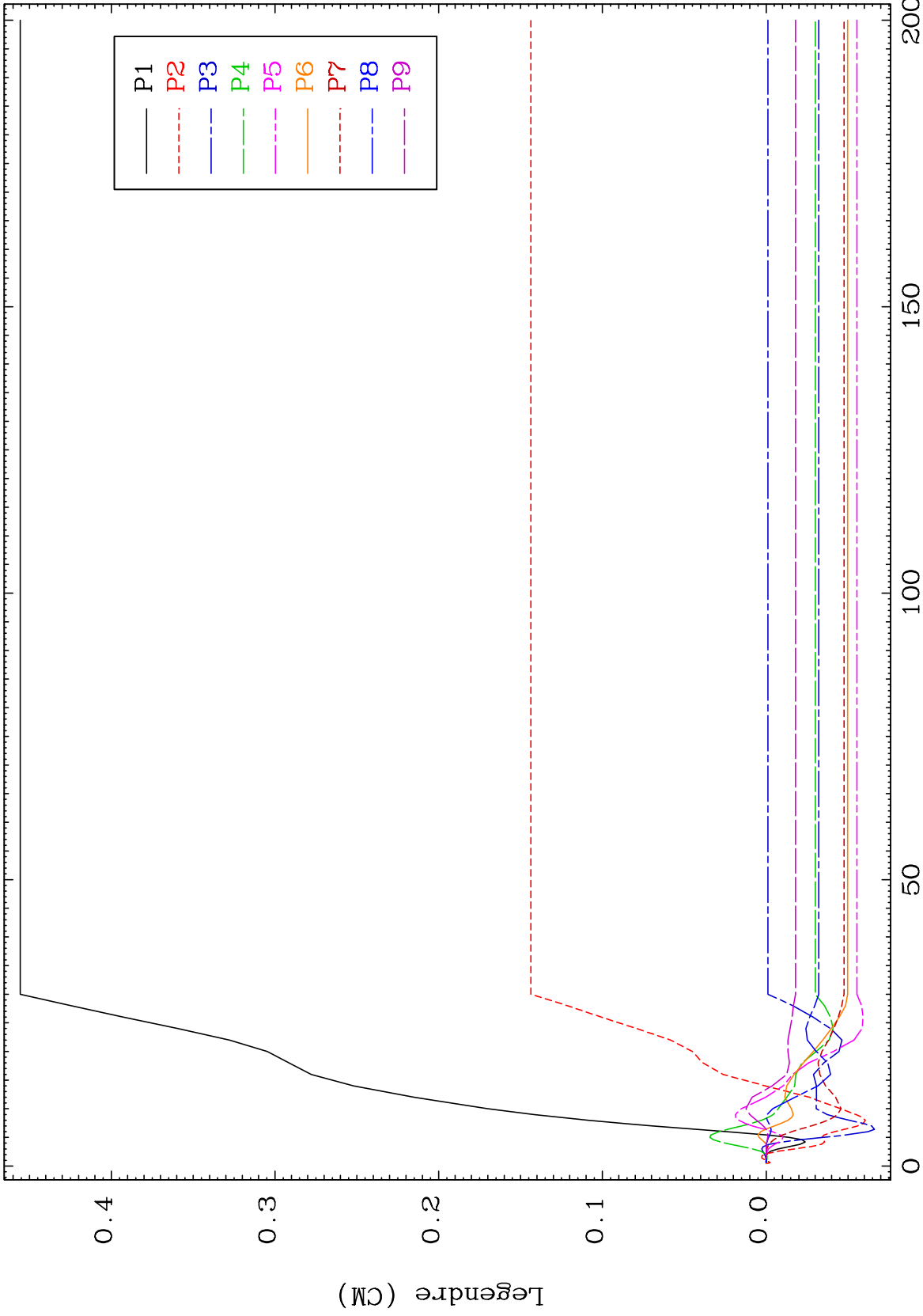
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



96

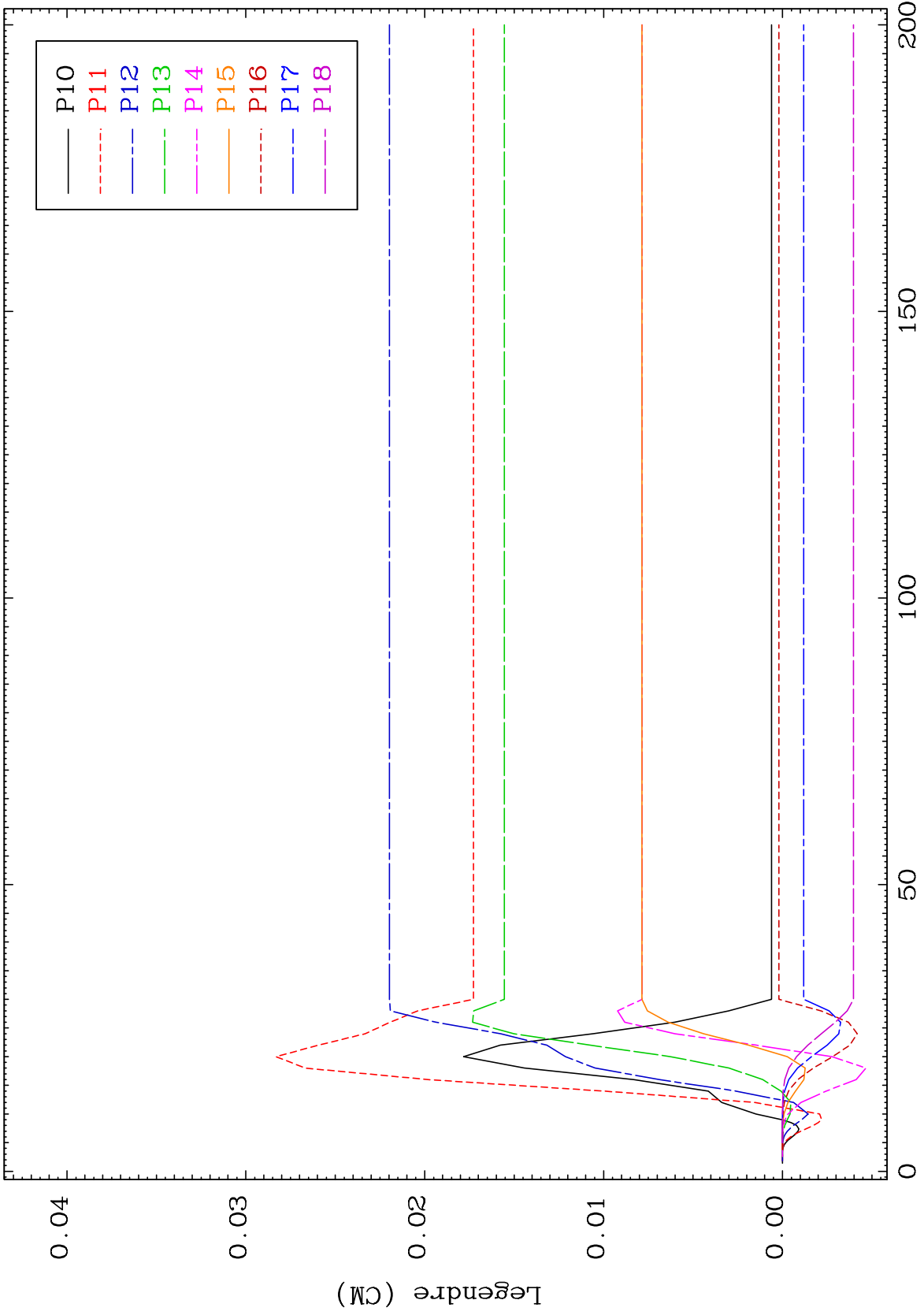
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



97

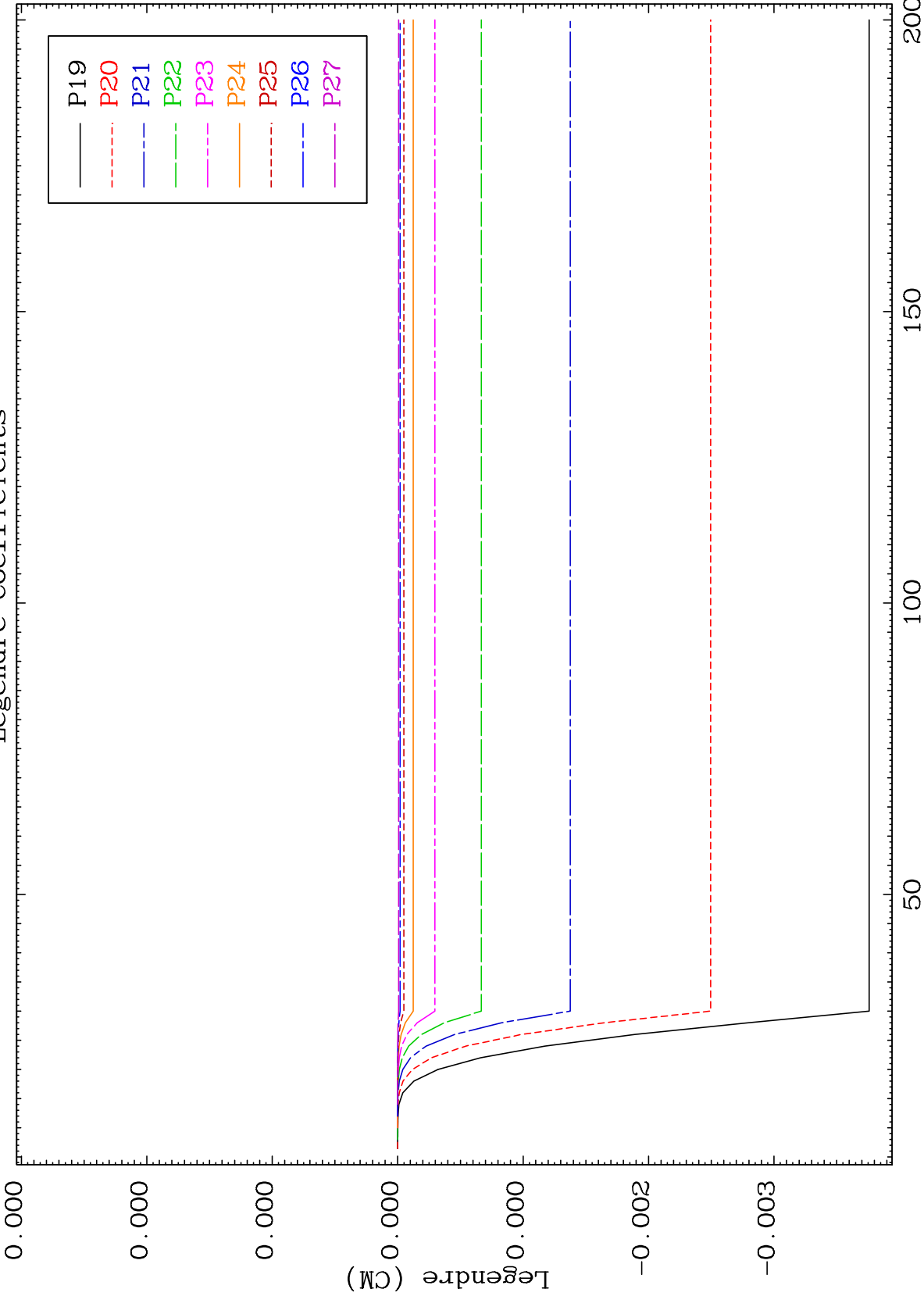
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



98

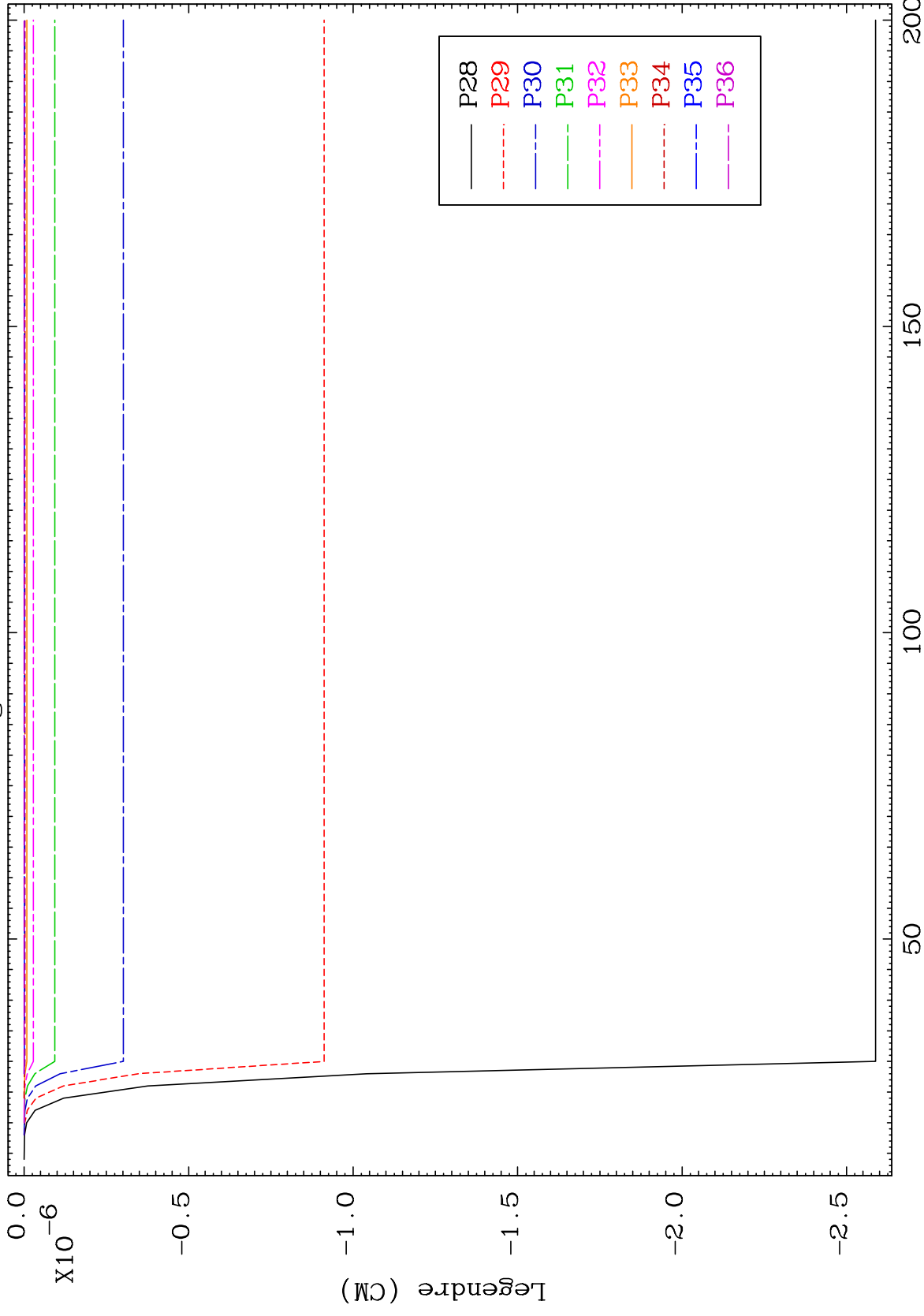
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



51-Sb-122

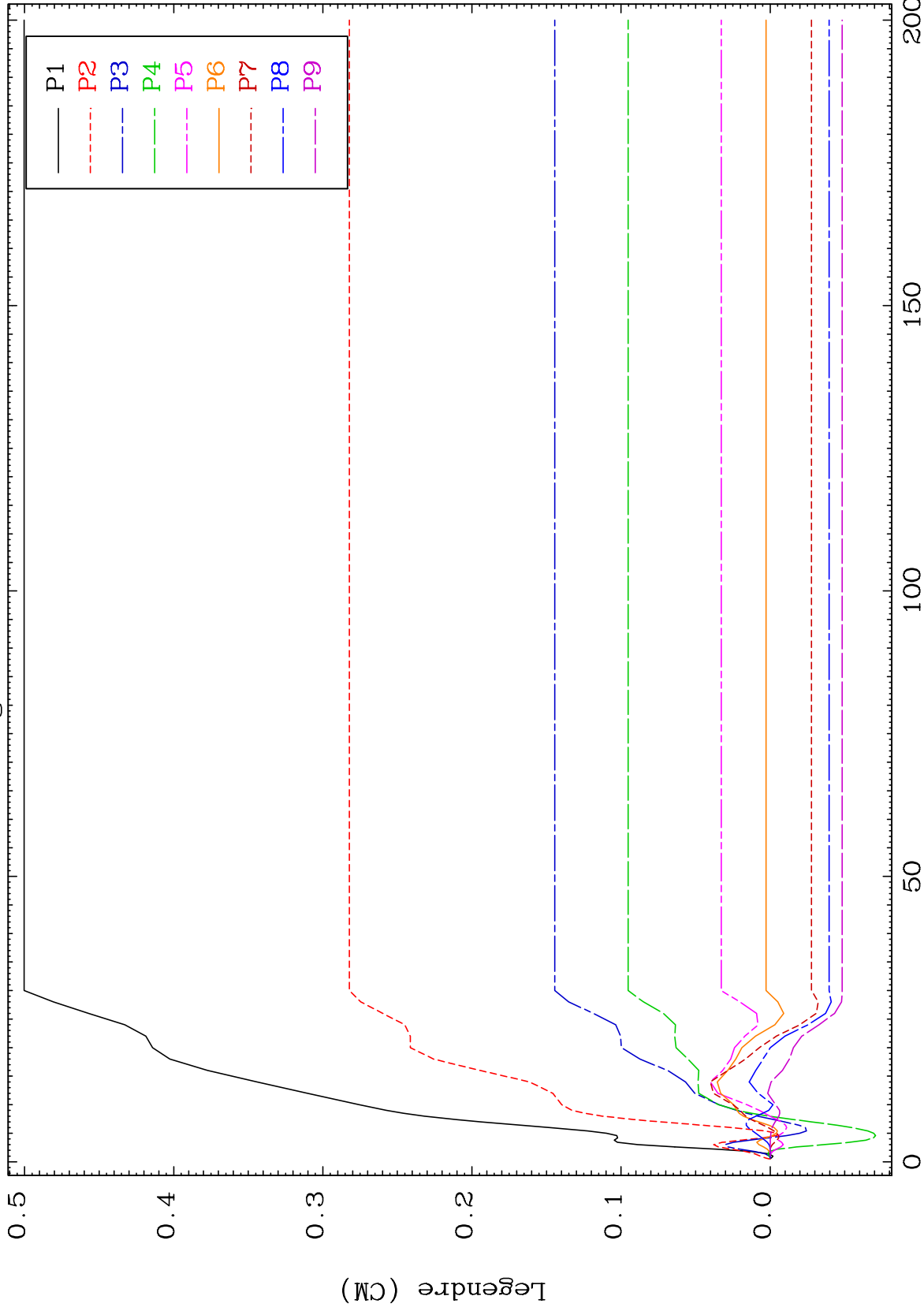
Incident Energy (MeV)

99

MAT 5128

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

51-Sb-122



51-Sb-122

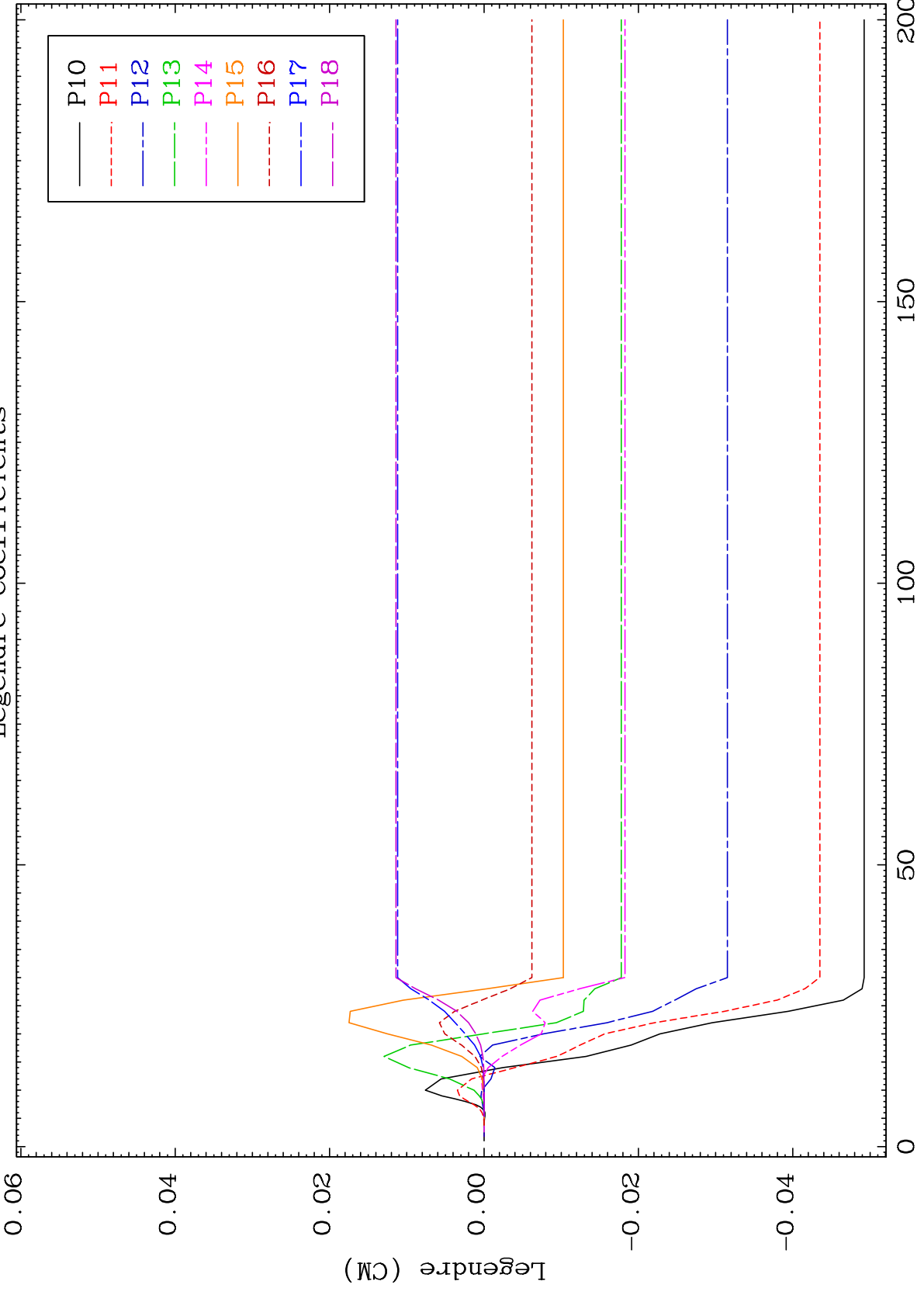
Incident Energy (MeV)

100

MAT 5128

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

51-Sb-122



101

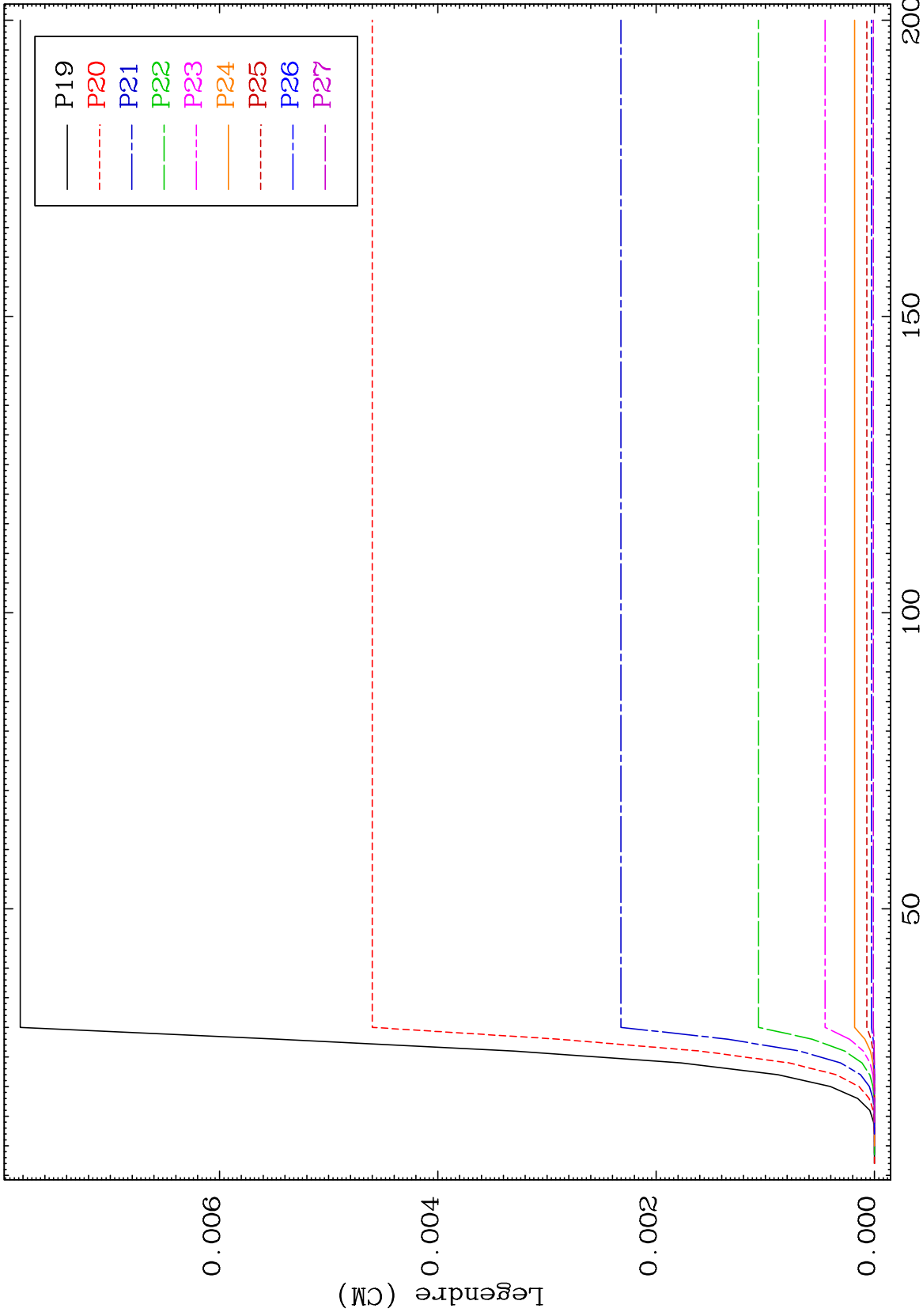
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



102

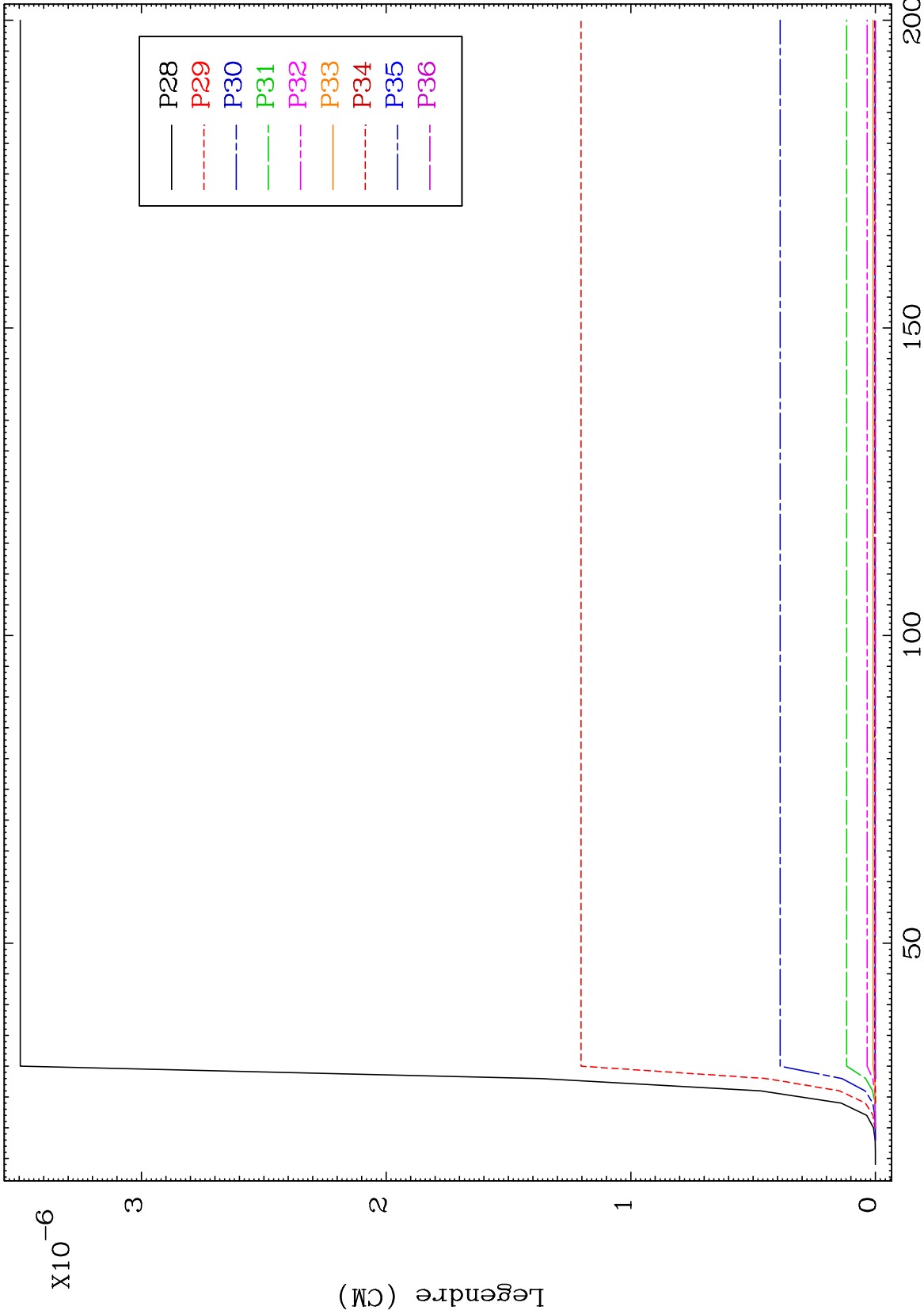
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



103

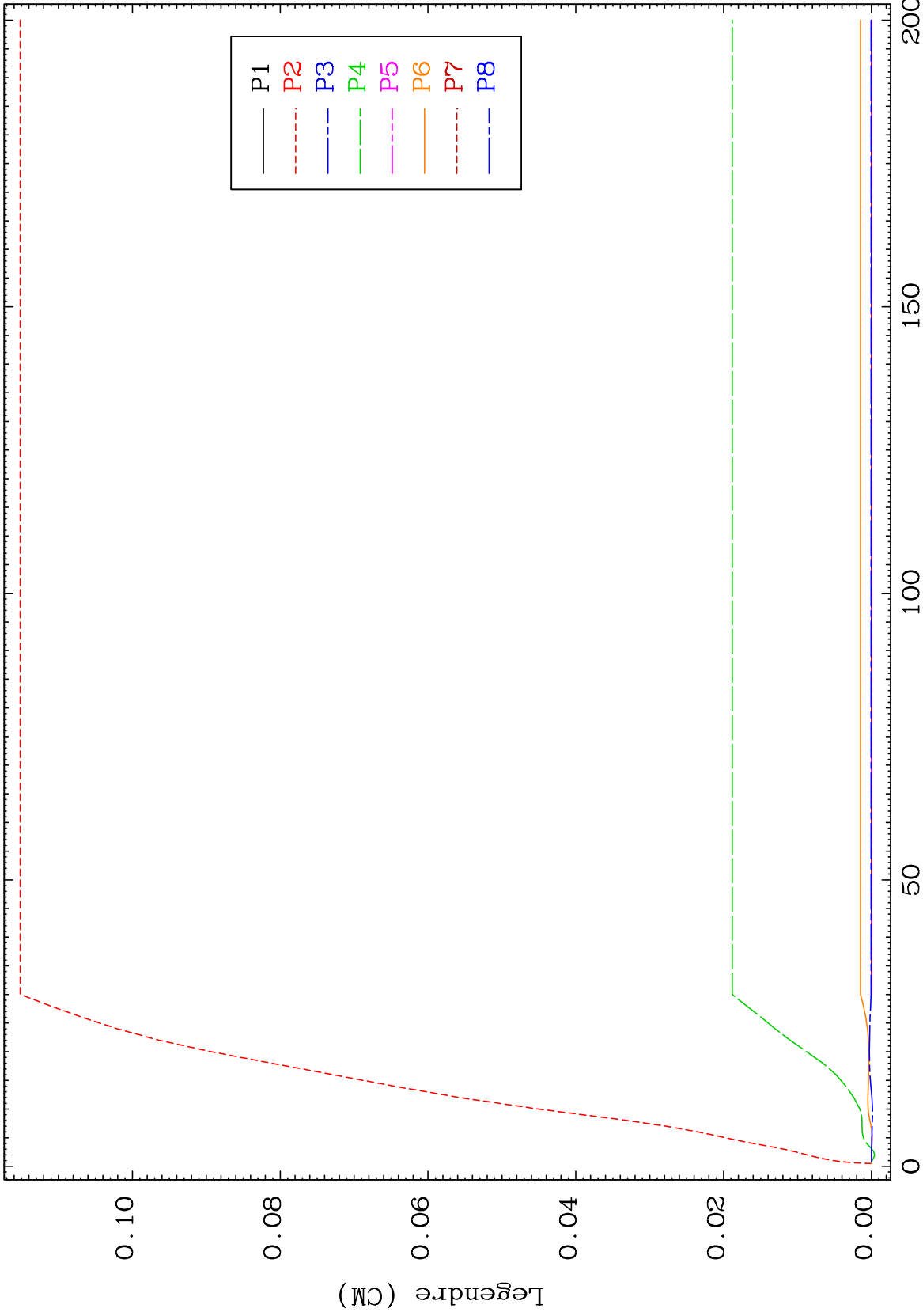
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



51-Sb-122

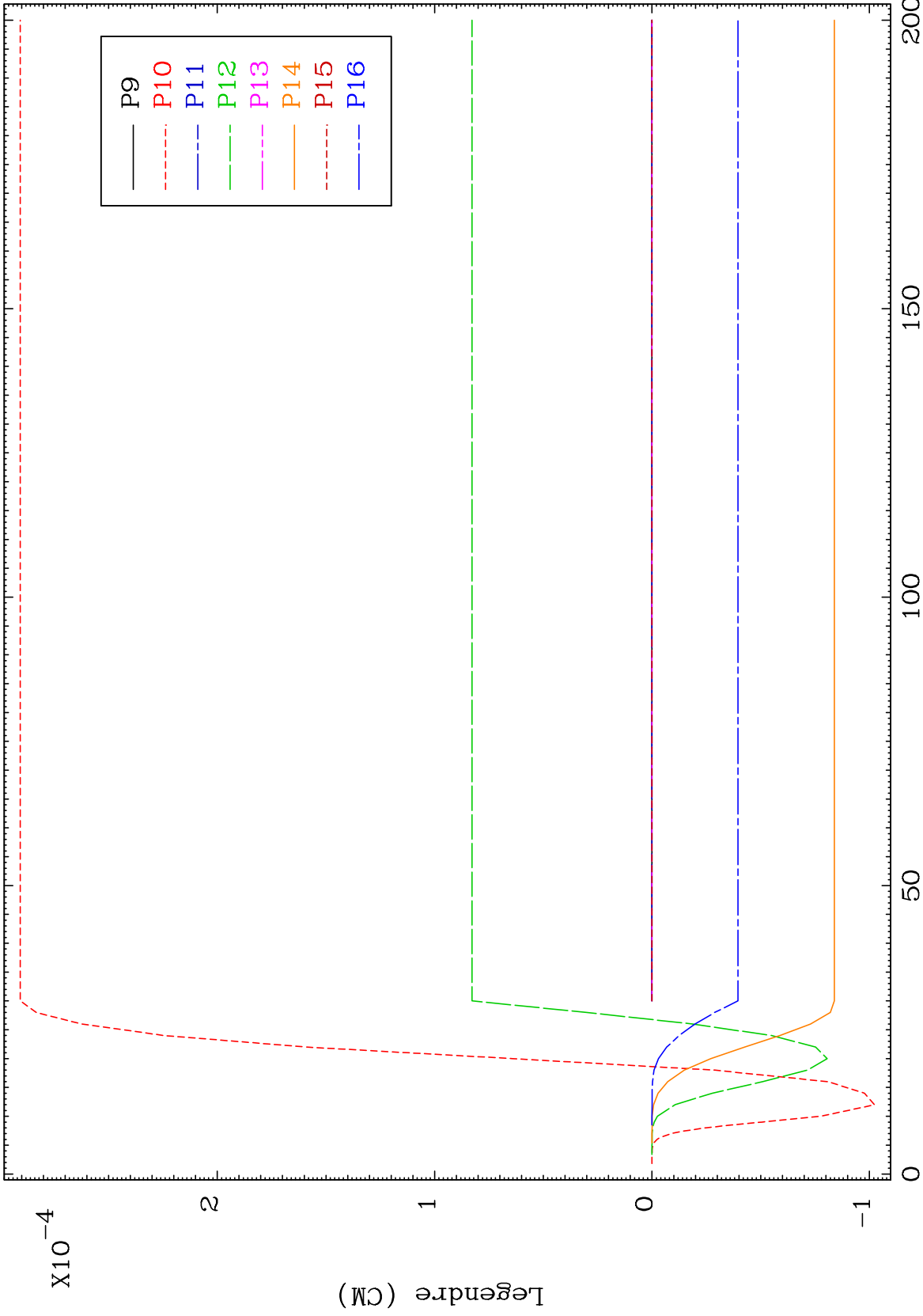
Incident Energy (MeV)

104

MAT 5128

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

51-Sb-122

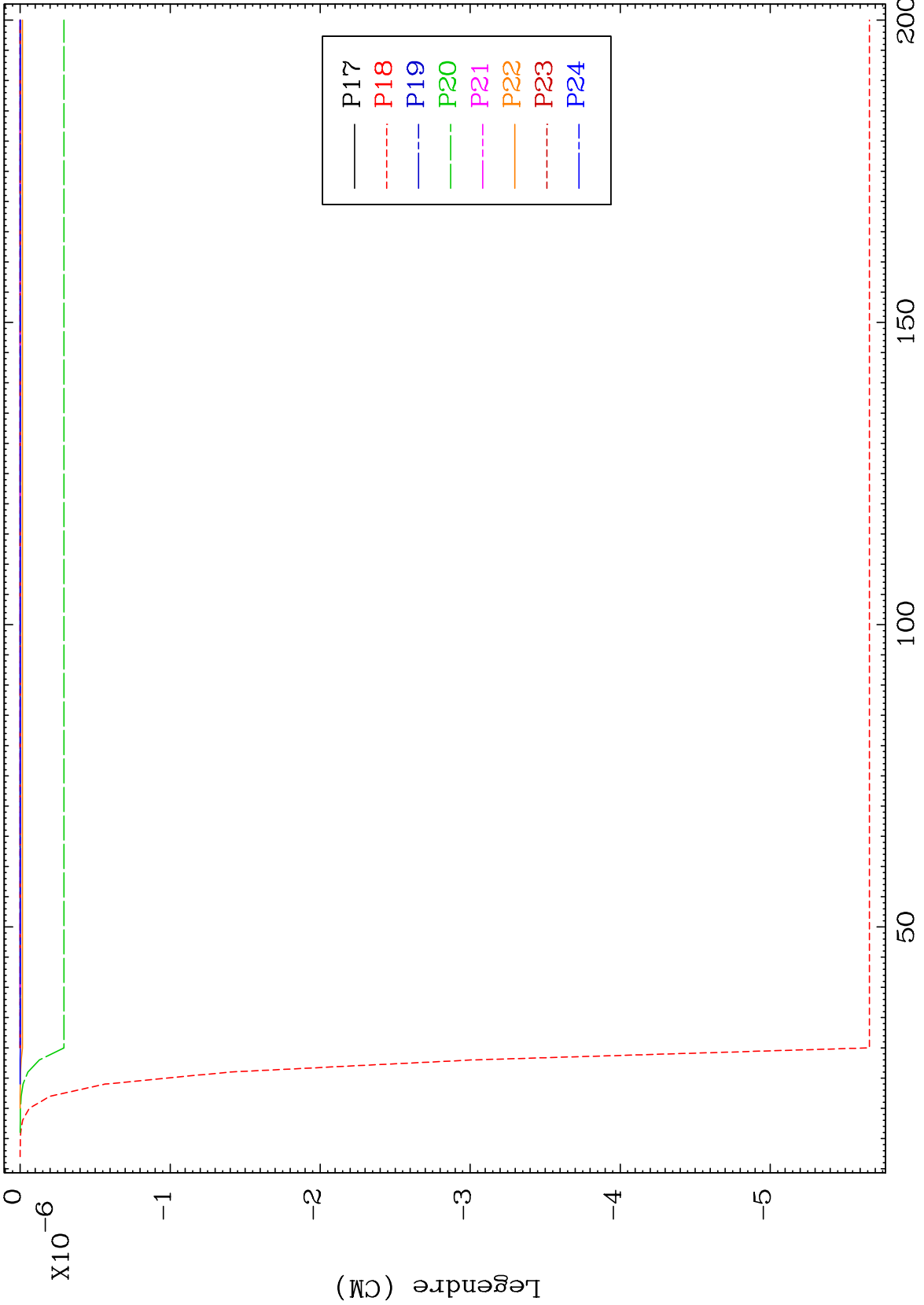


51-Sb-122

Incident Energy (MeV)

105

MAT 5128 MT= 75 (n,n') Level Legendre Coefficients 51-Sb-122

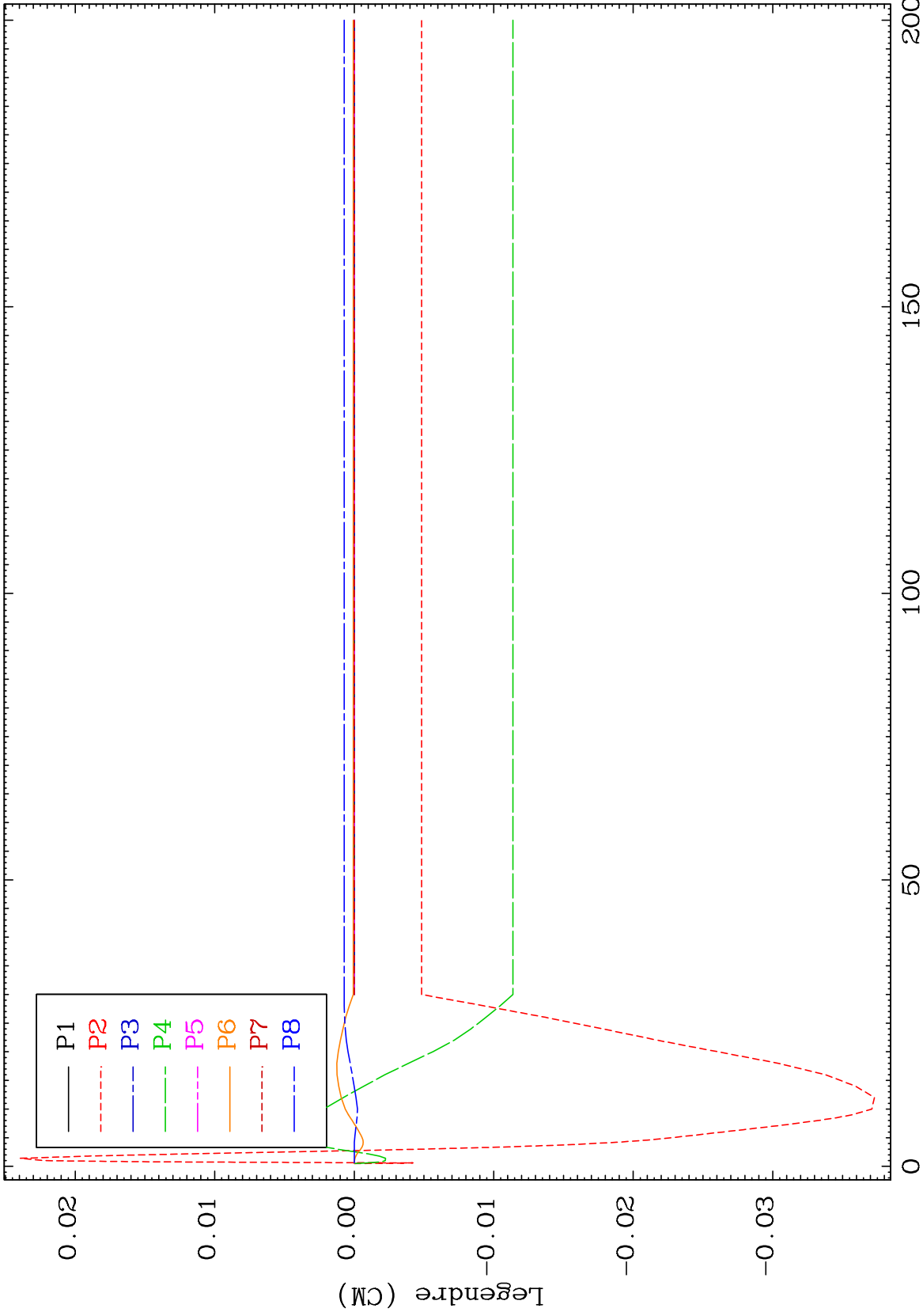


106 51-Sb-122

MAT 5128

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

51-Sb-122



51-Sb-122

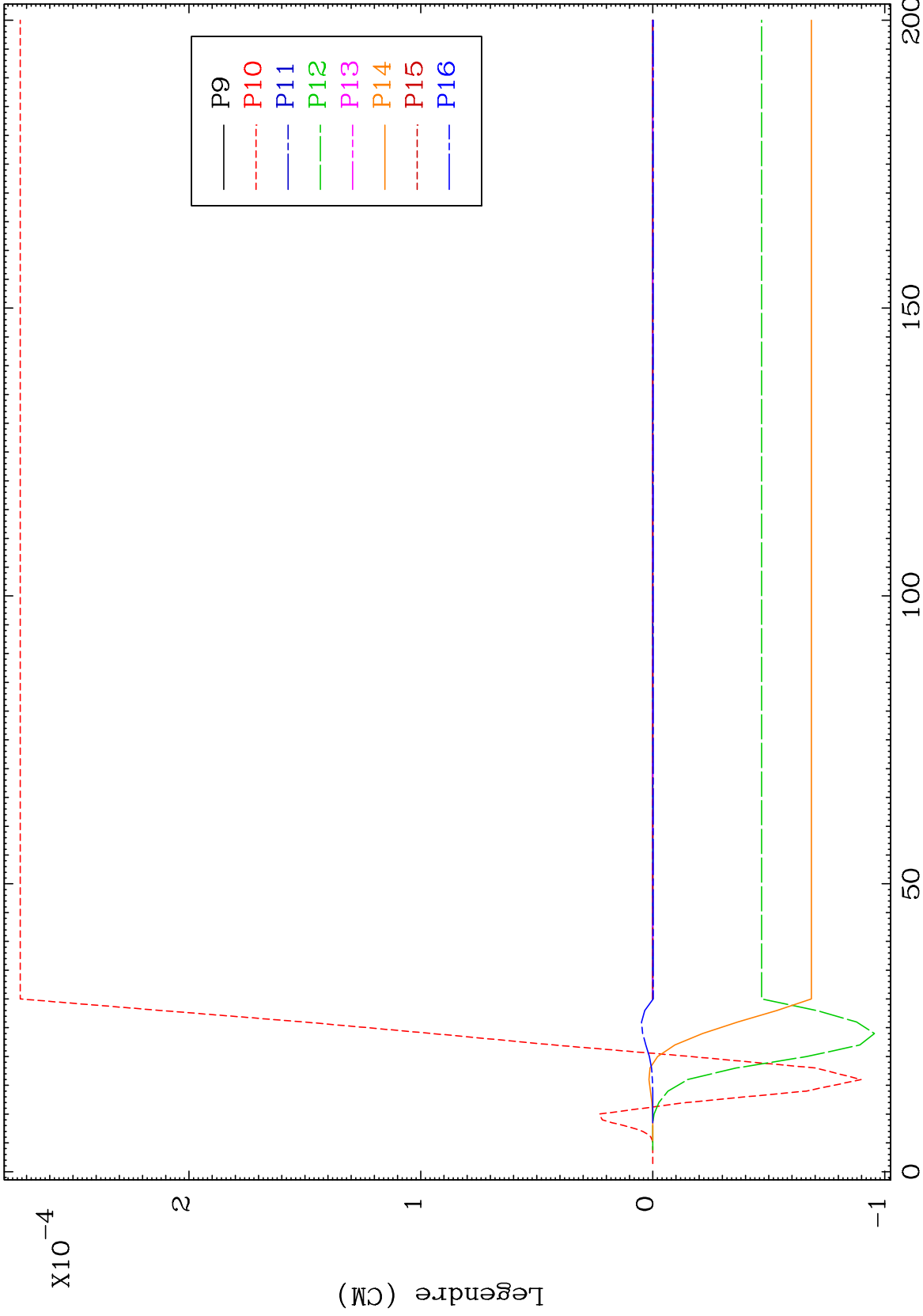
Incident Energy (MeV)

107

MAT 5128

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

51-Sb-122



108

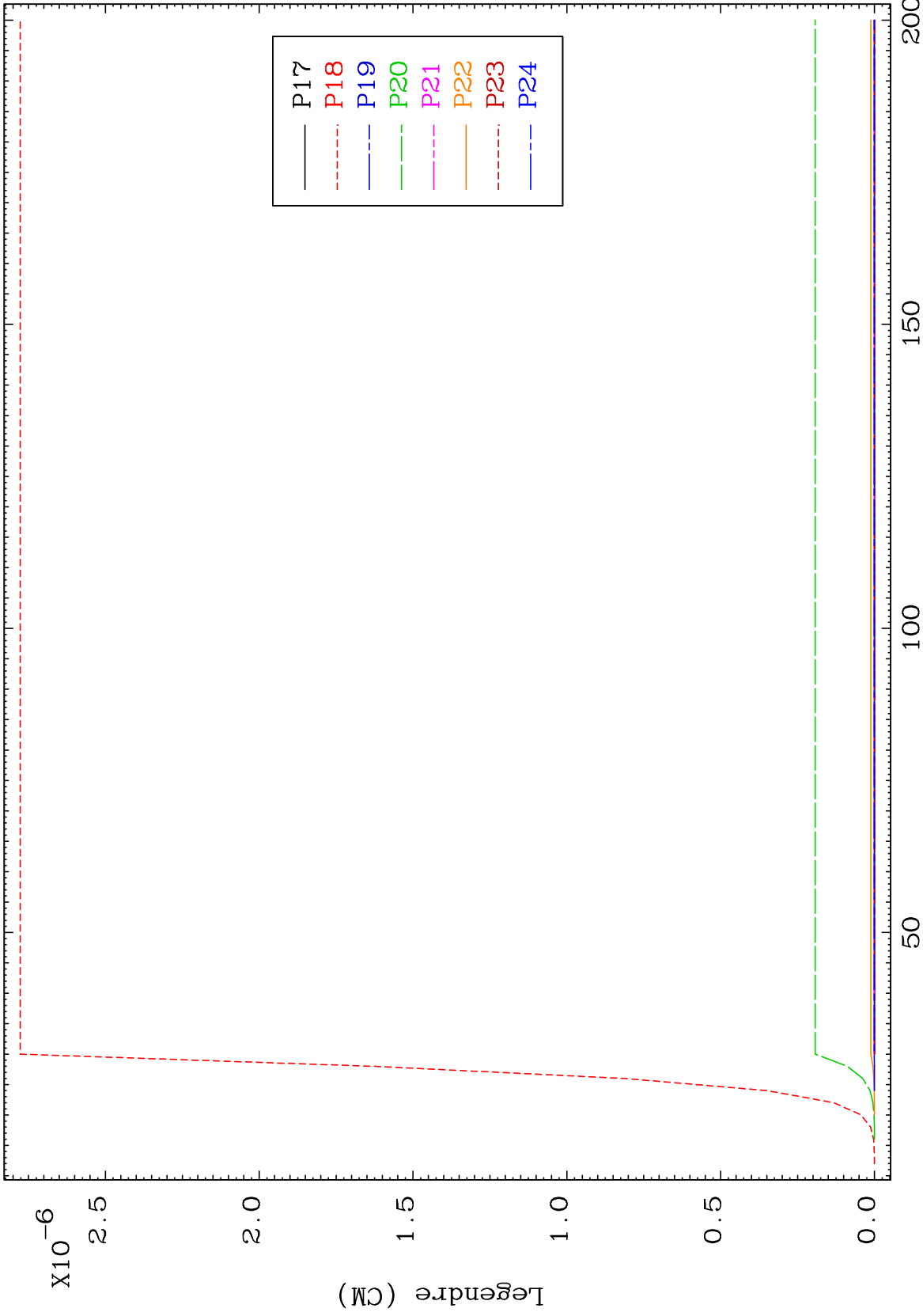
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



109

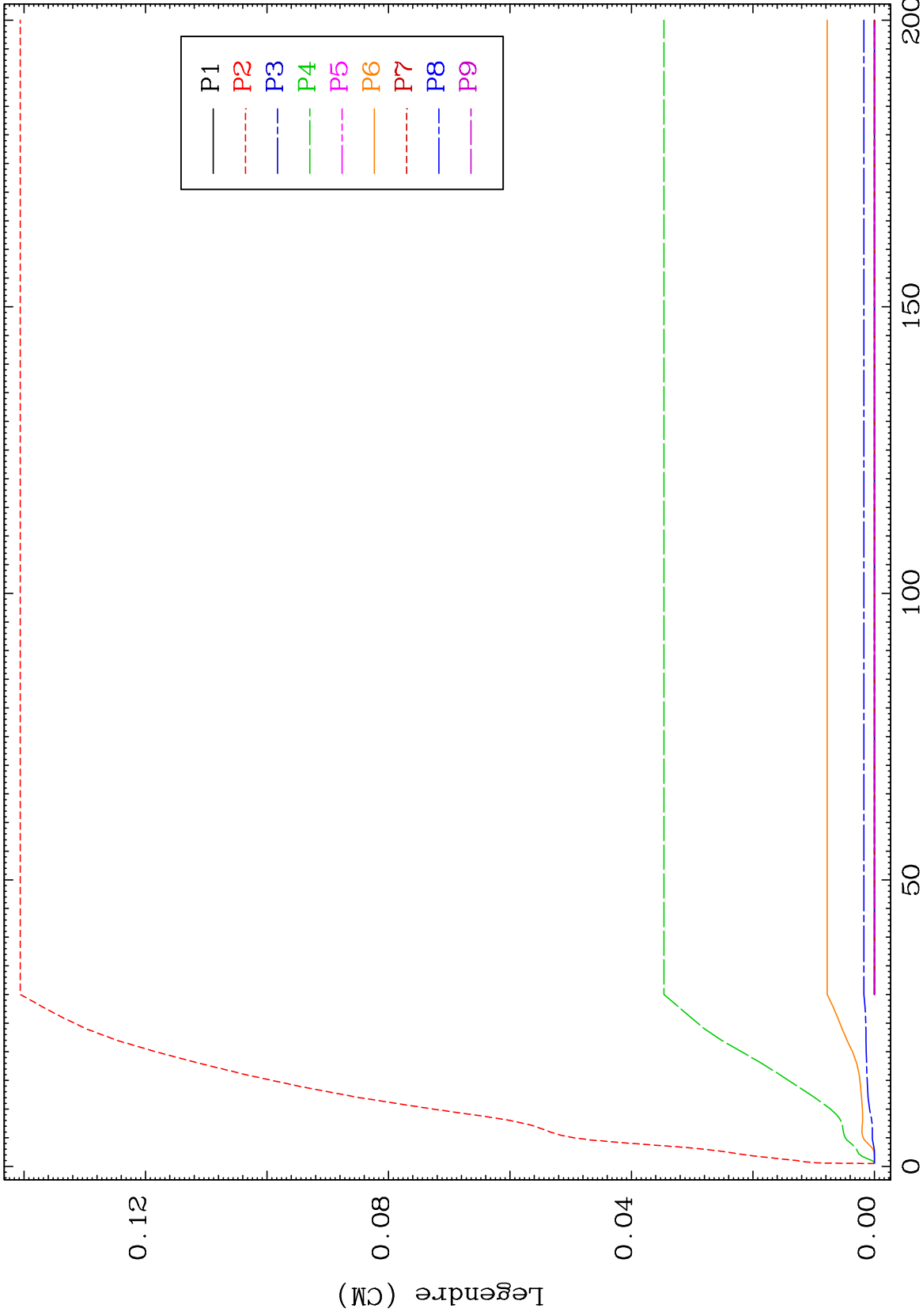
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



51-Sb-122

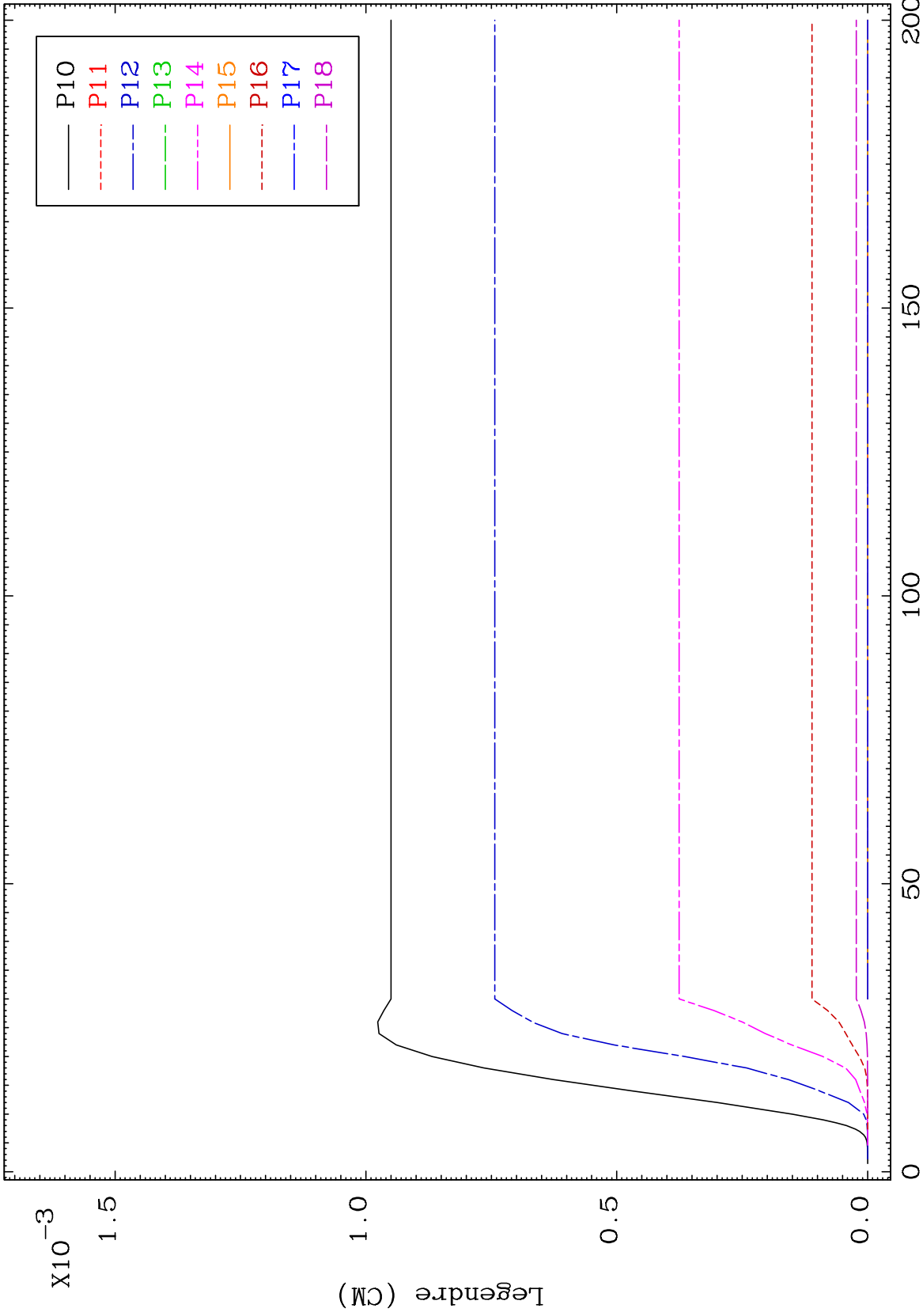
Incident Energy (MeV)

110

MAT 5128

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

51-Sb-122

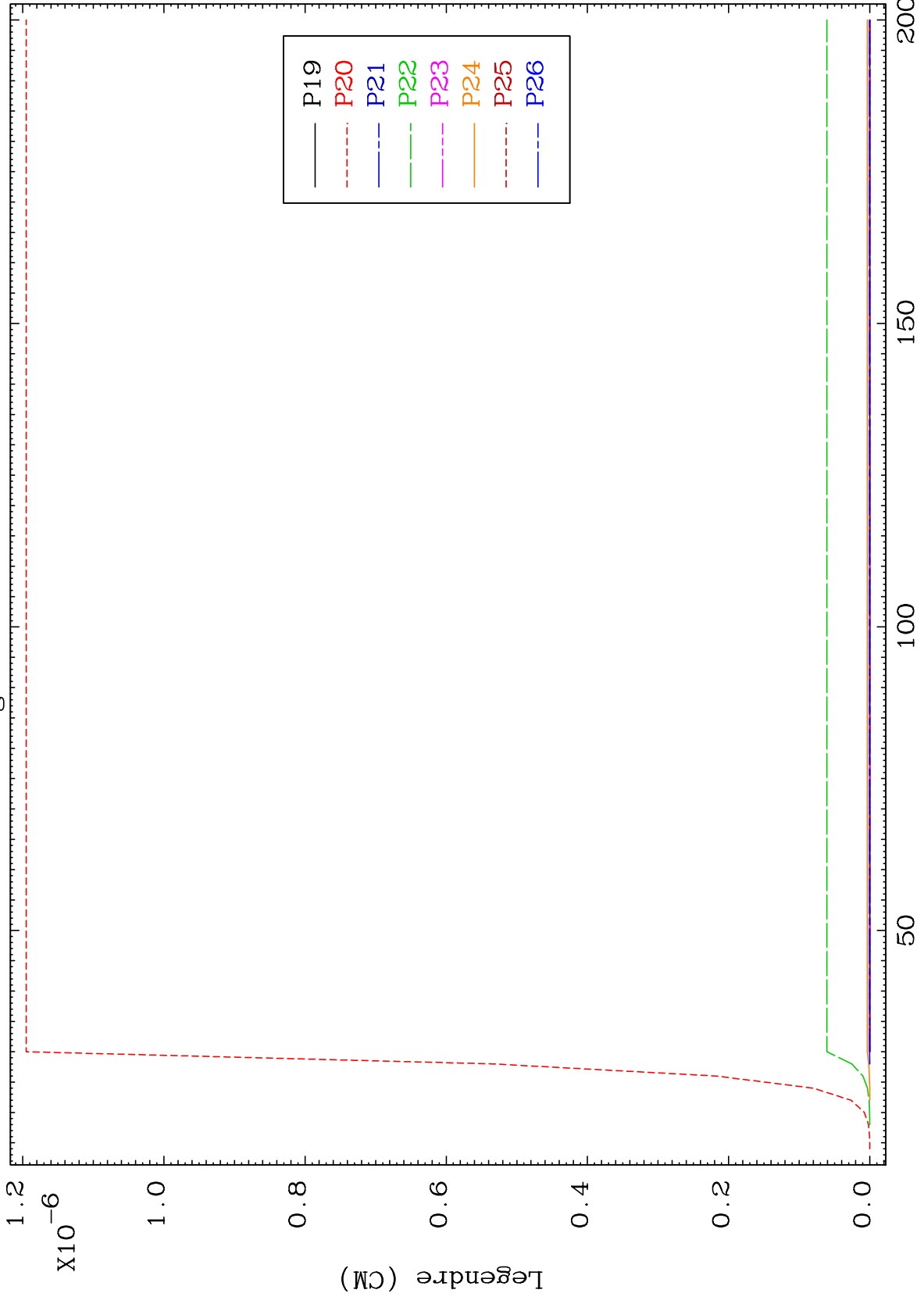


111

Incident Energy (MeV)

51-Sb-122

MAT 5128 MT= 77 (n,n') Level Legendre Coefficients 51-Sb-122

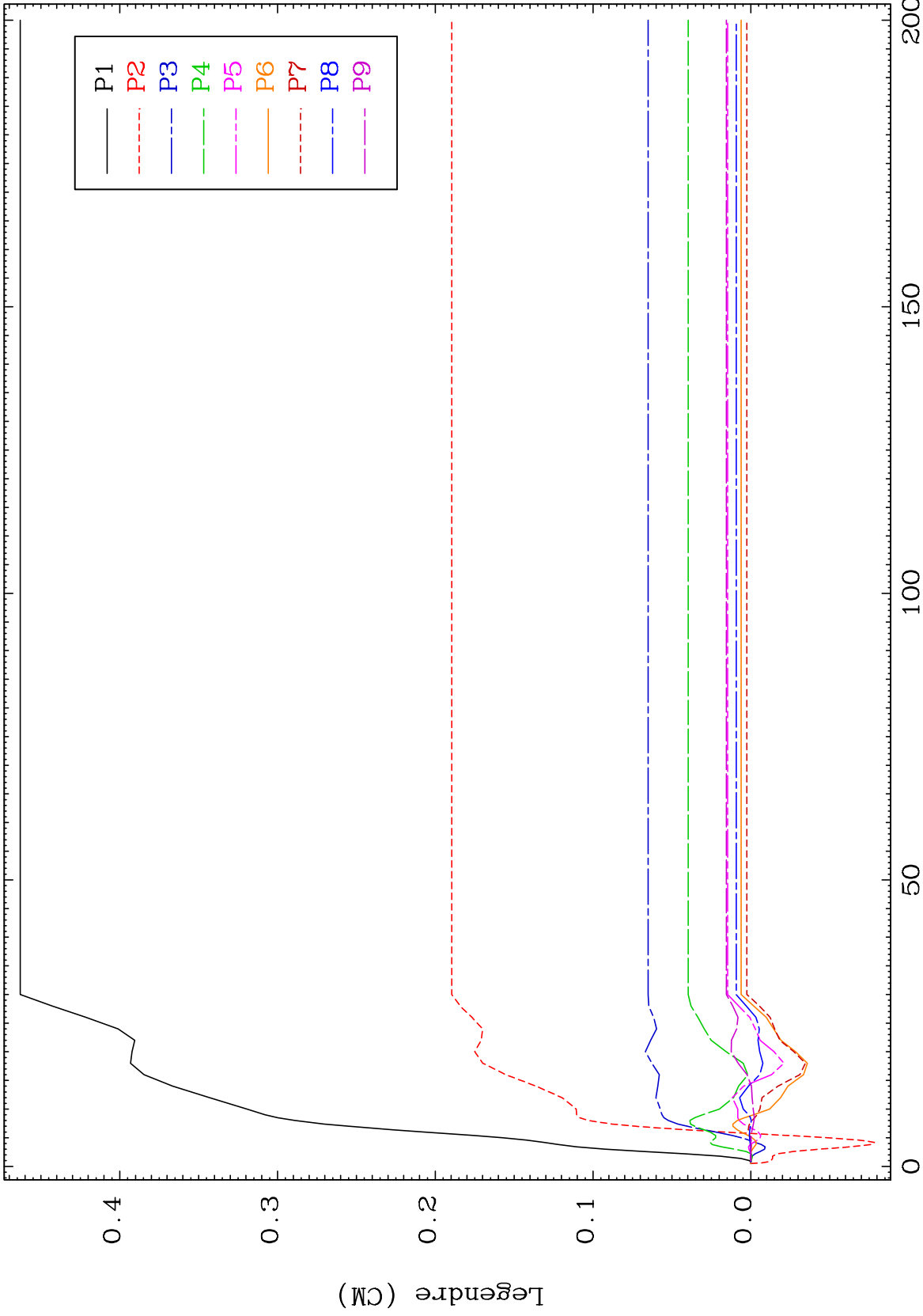


112 50 100 150 200 51-Sb-122

MAT 5128

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

51-Sb-122



113

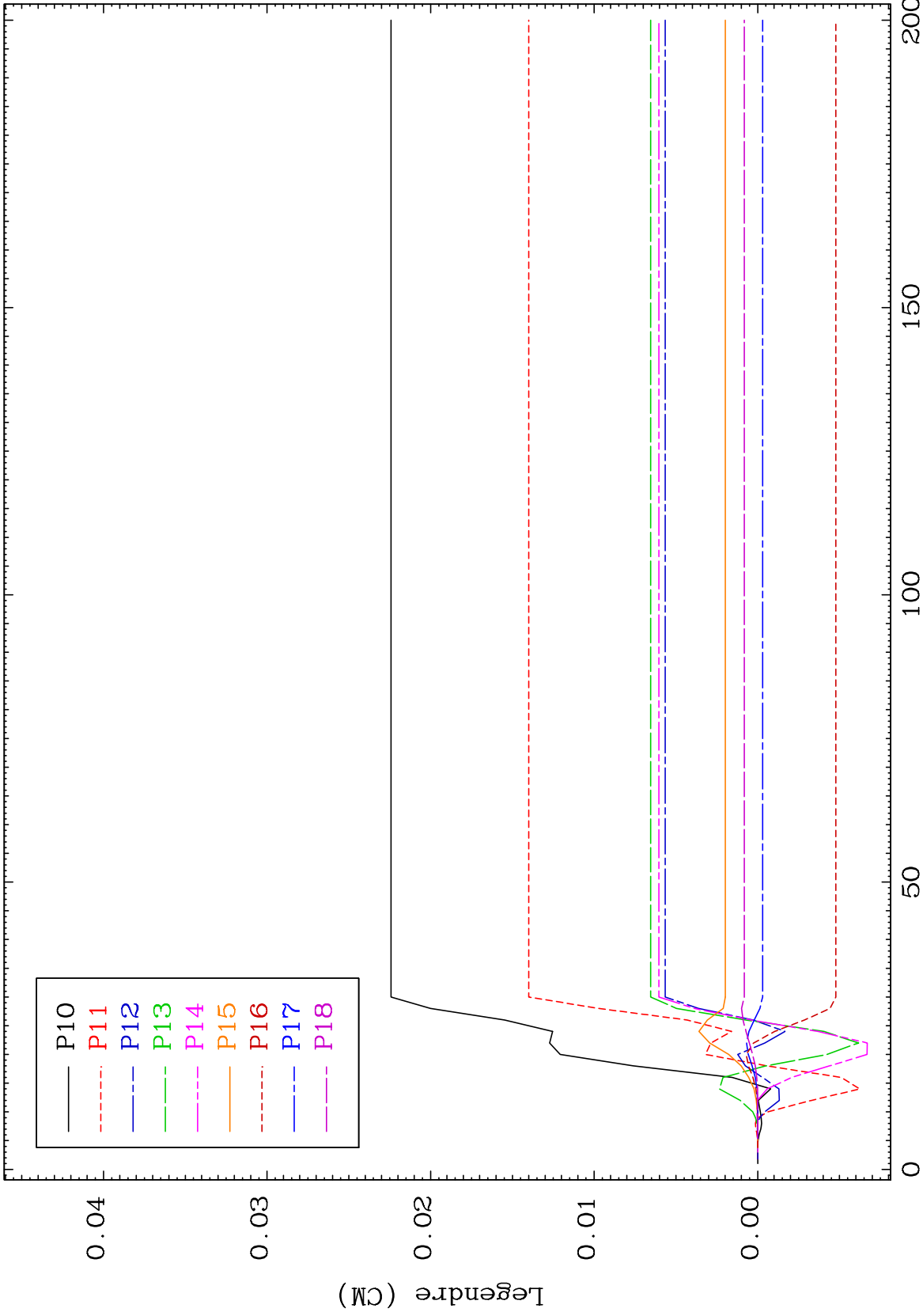
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



114

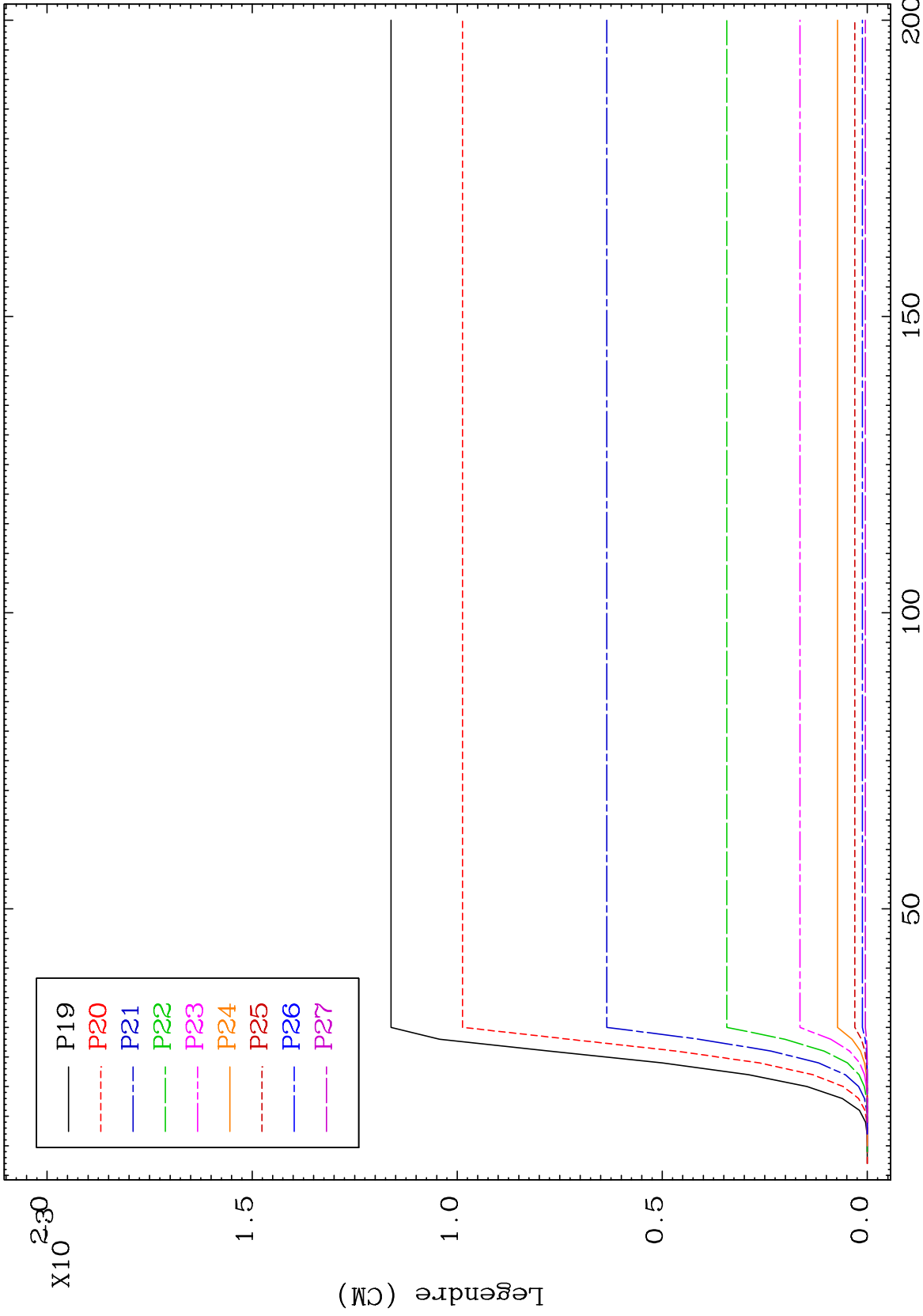
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



115

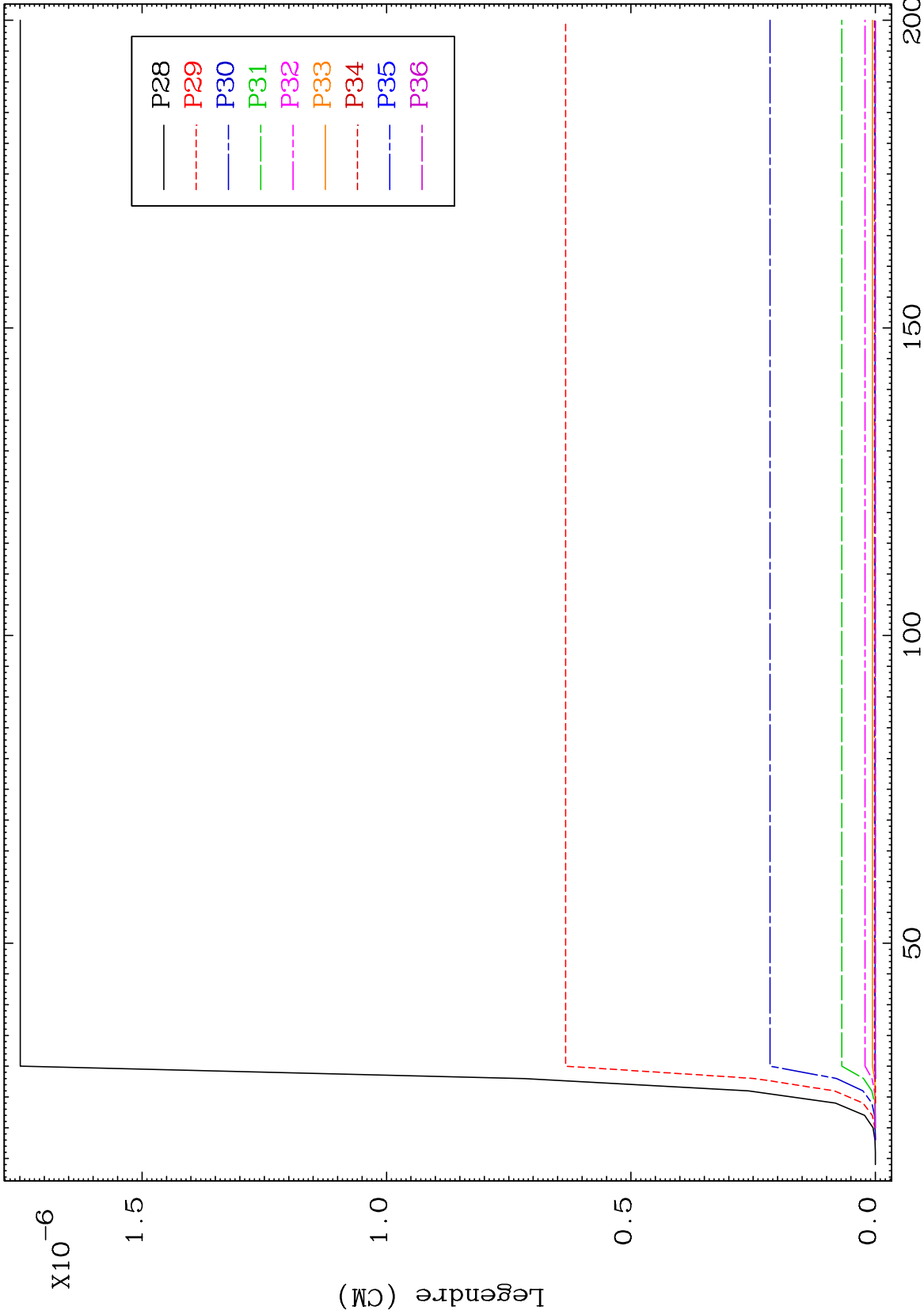
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



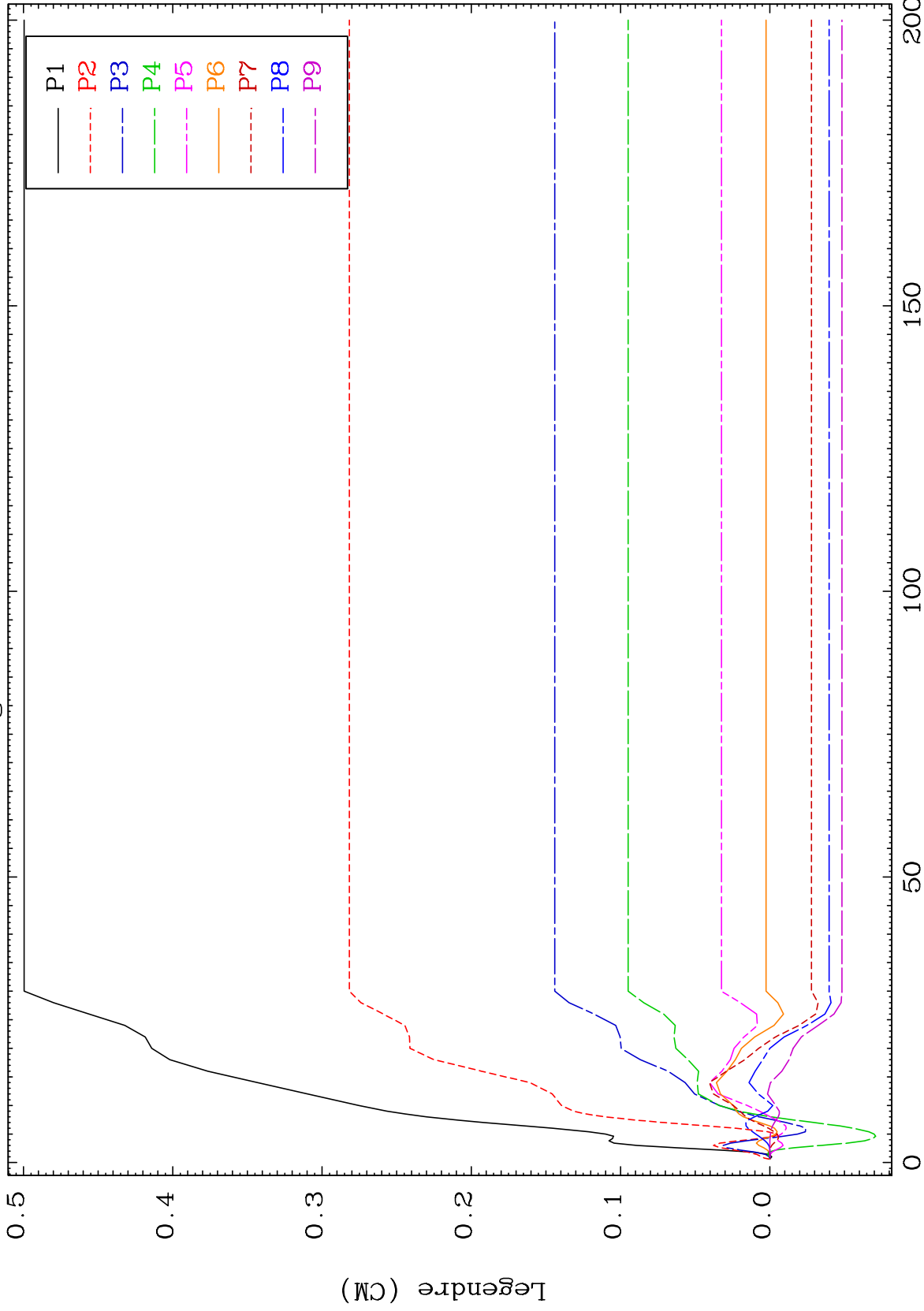
116

51-Sb-122

MAT 5128

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

51-Sb-122

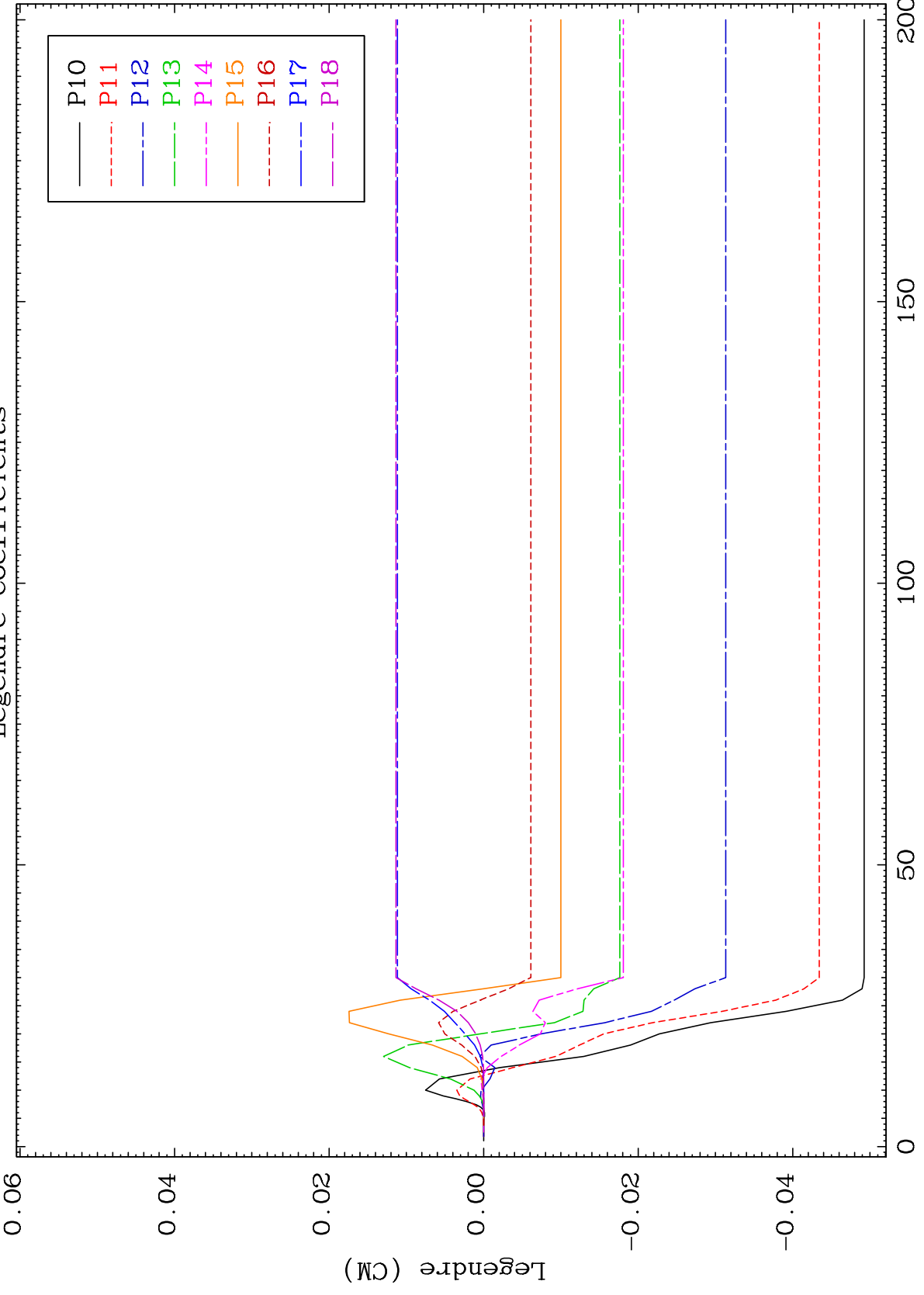


117

Incident Energy (MeV)

51-Sb-122

MAT 5128 MT= 79 (n,n') Level Legendre Coefficients 51-Sb-122

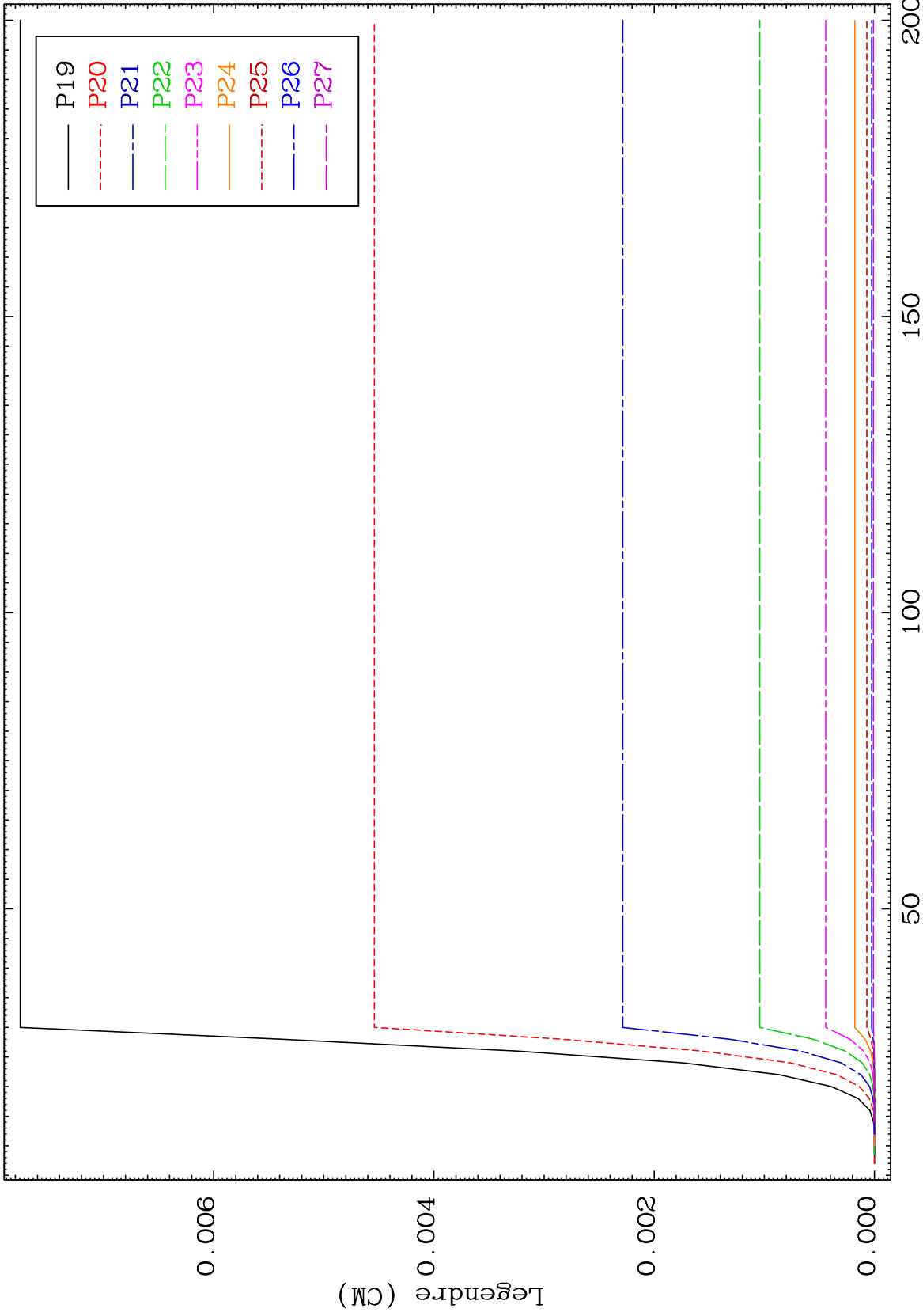


118 51-Sb-122

MAT 5128

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

51-Sb-122



119

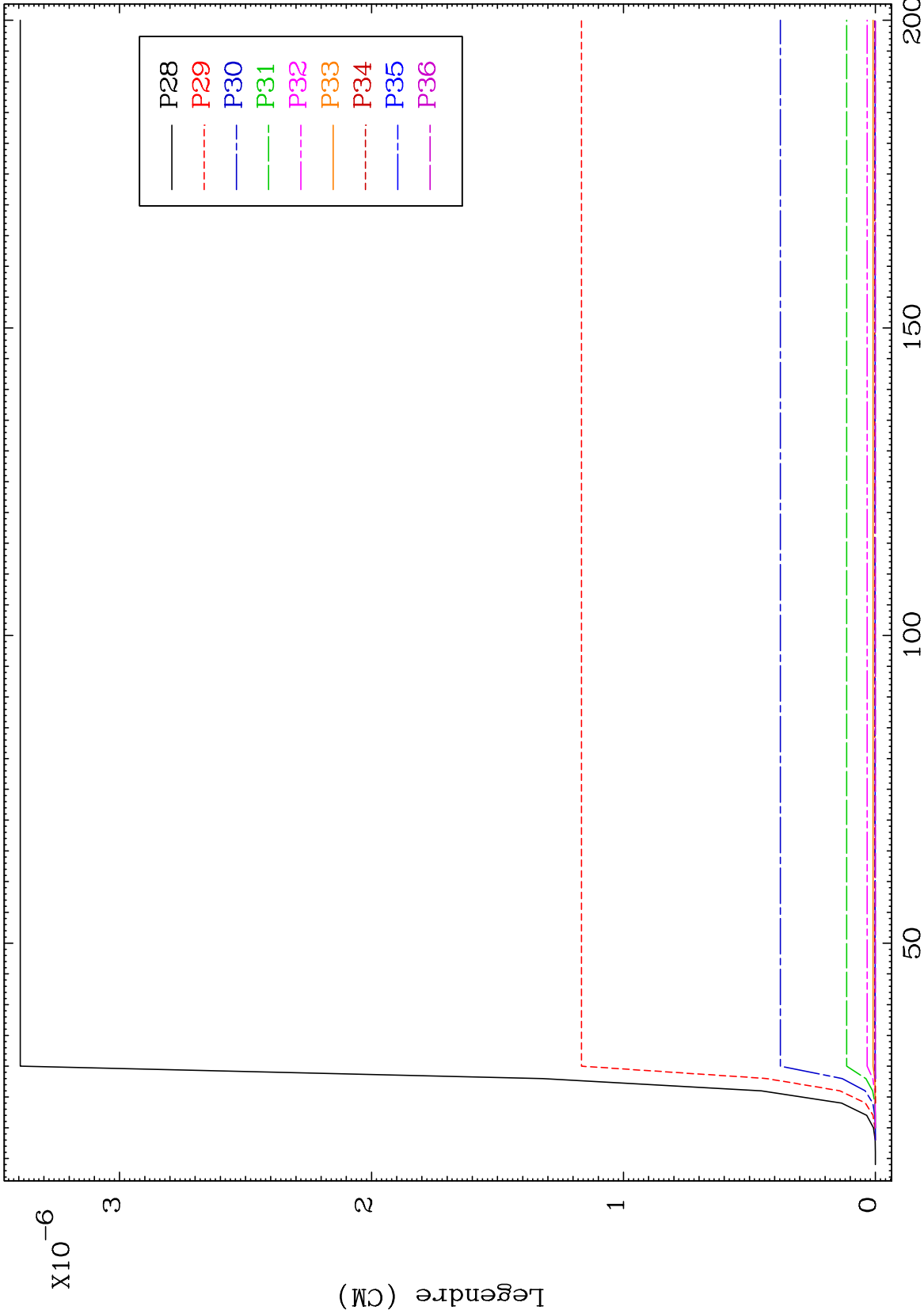
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

51-Sb-122



120

50

100

150

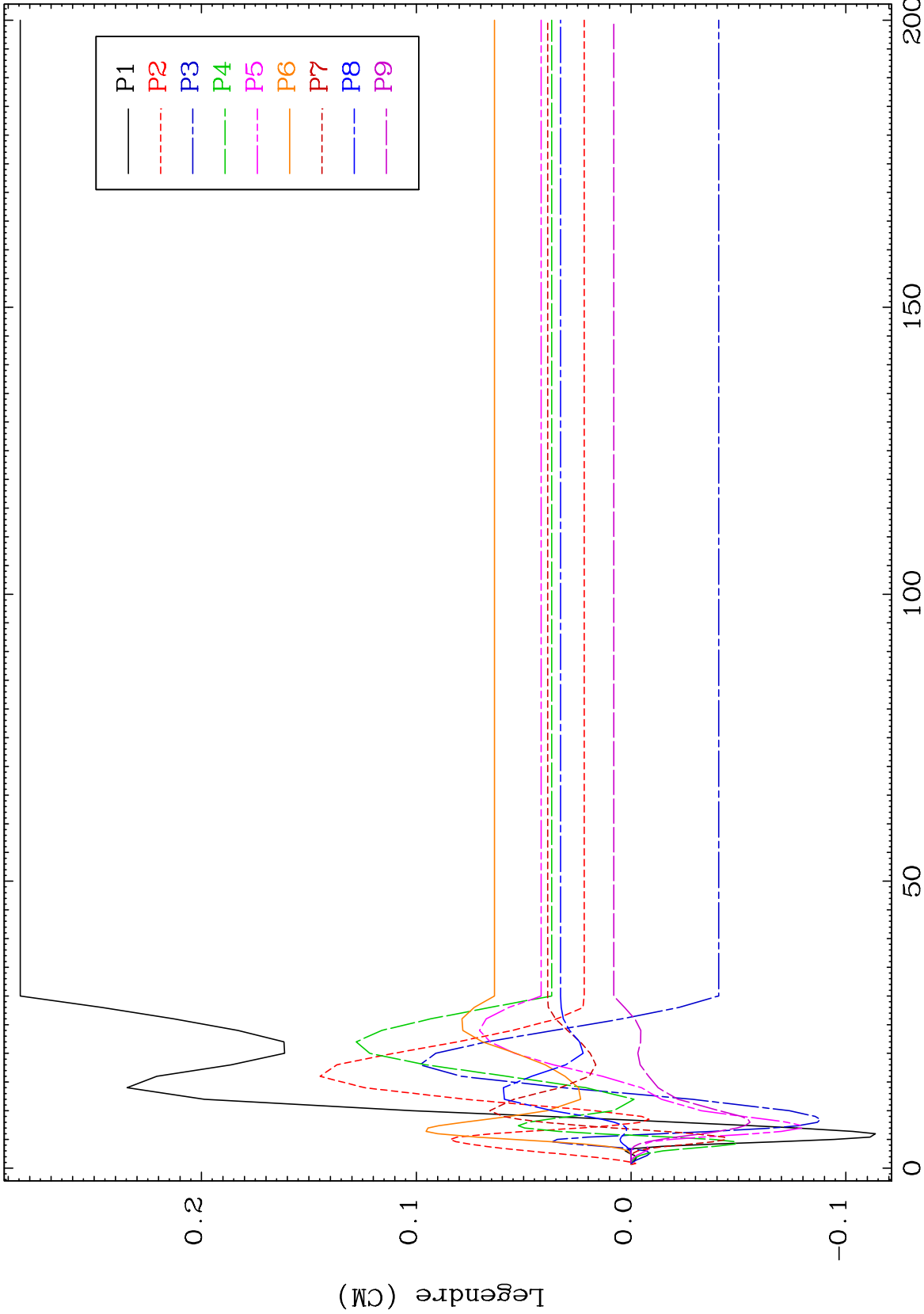
200

51-Sb-122

MAT 5128

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

51-Sb-122



121

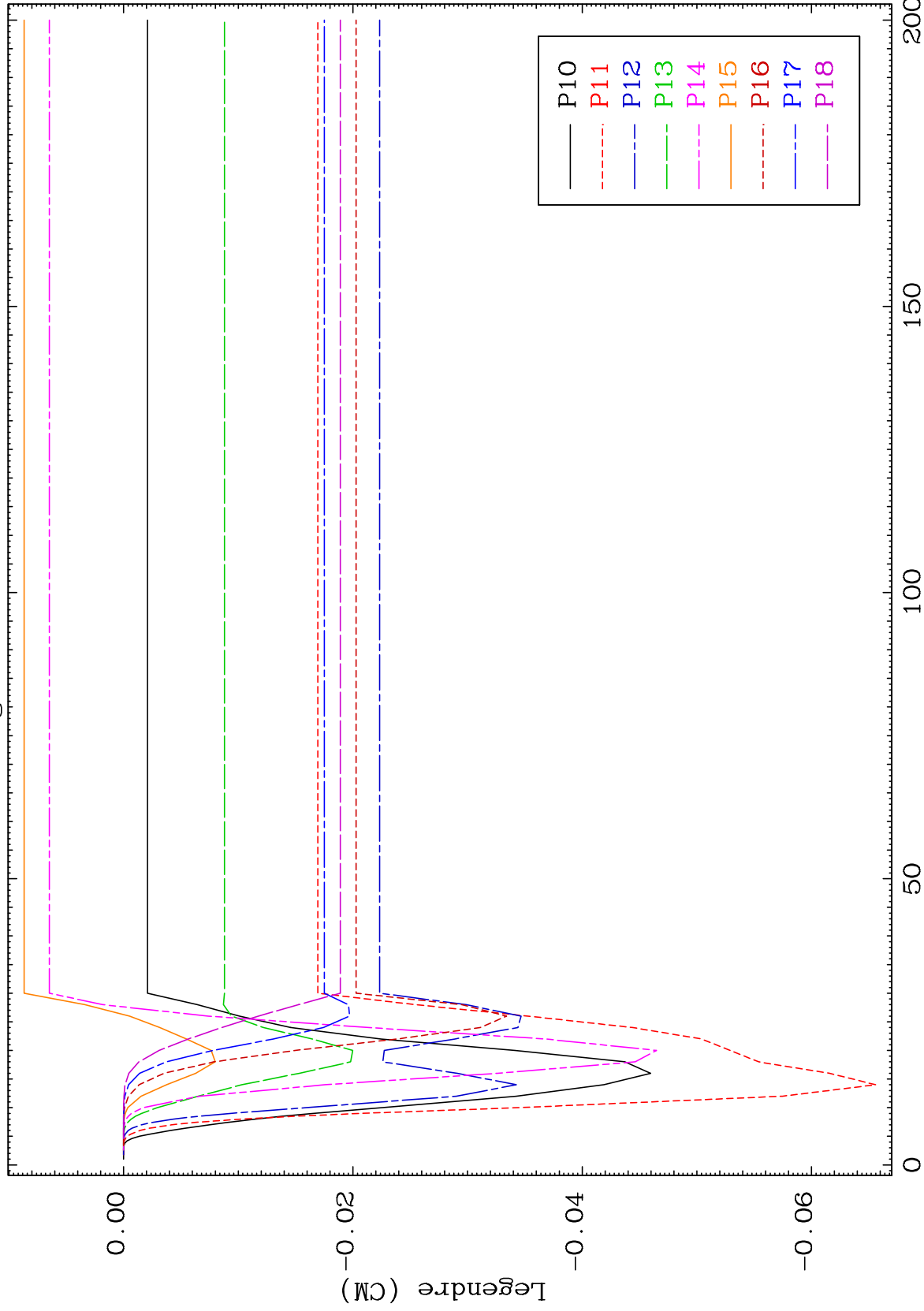
Incident Energy (MeV)

51-Sb-122

MAT 5128

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

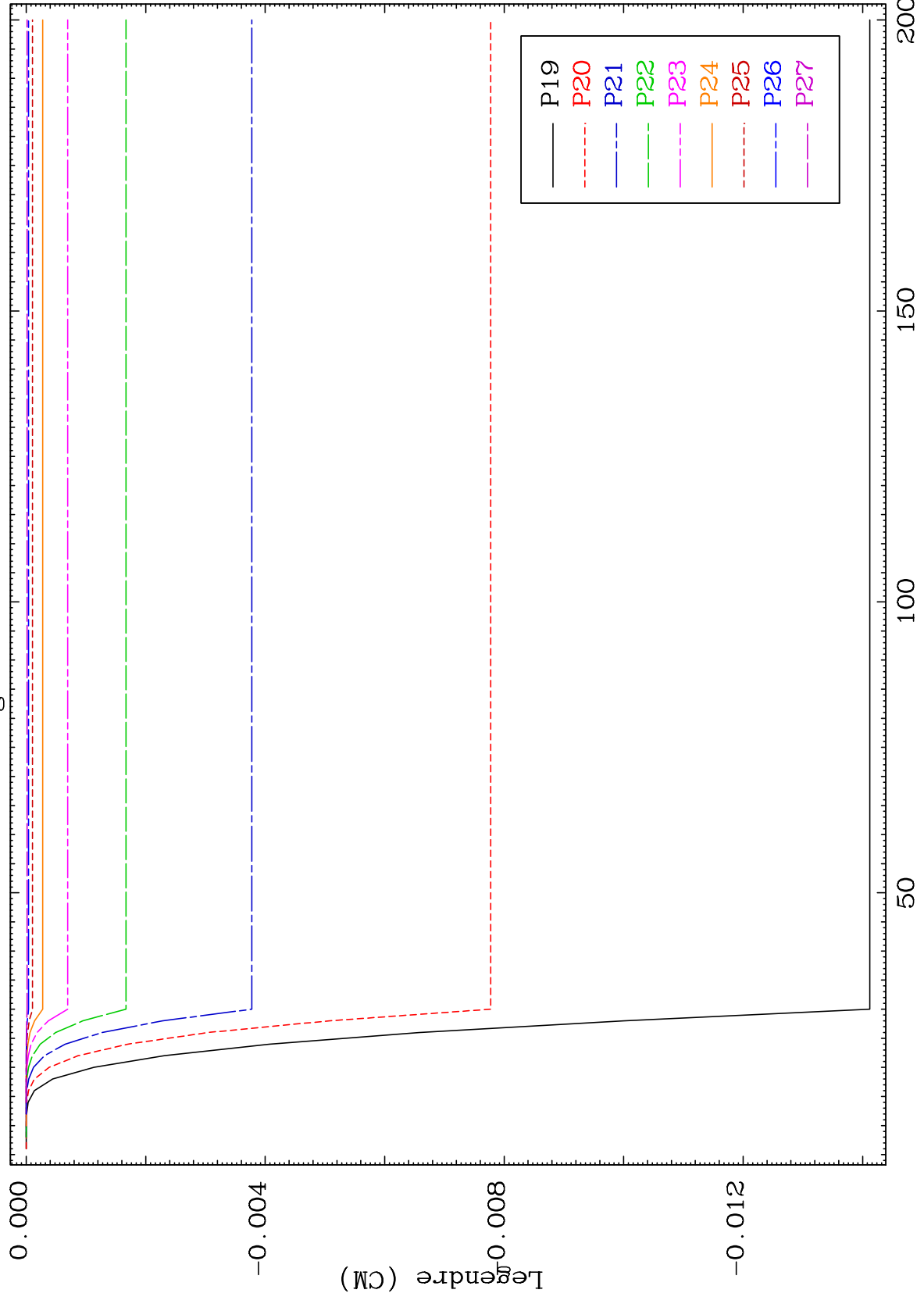
51-Sb-122



122

51-Sb-122

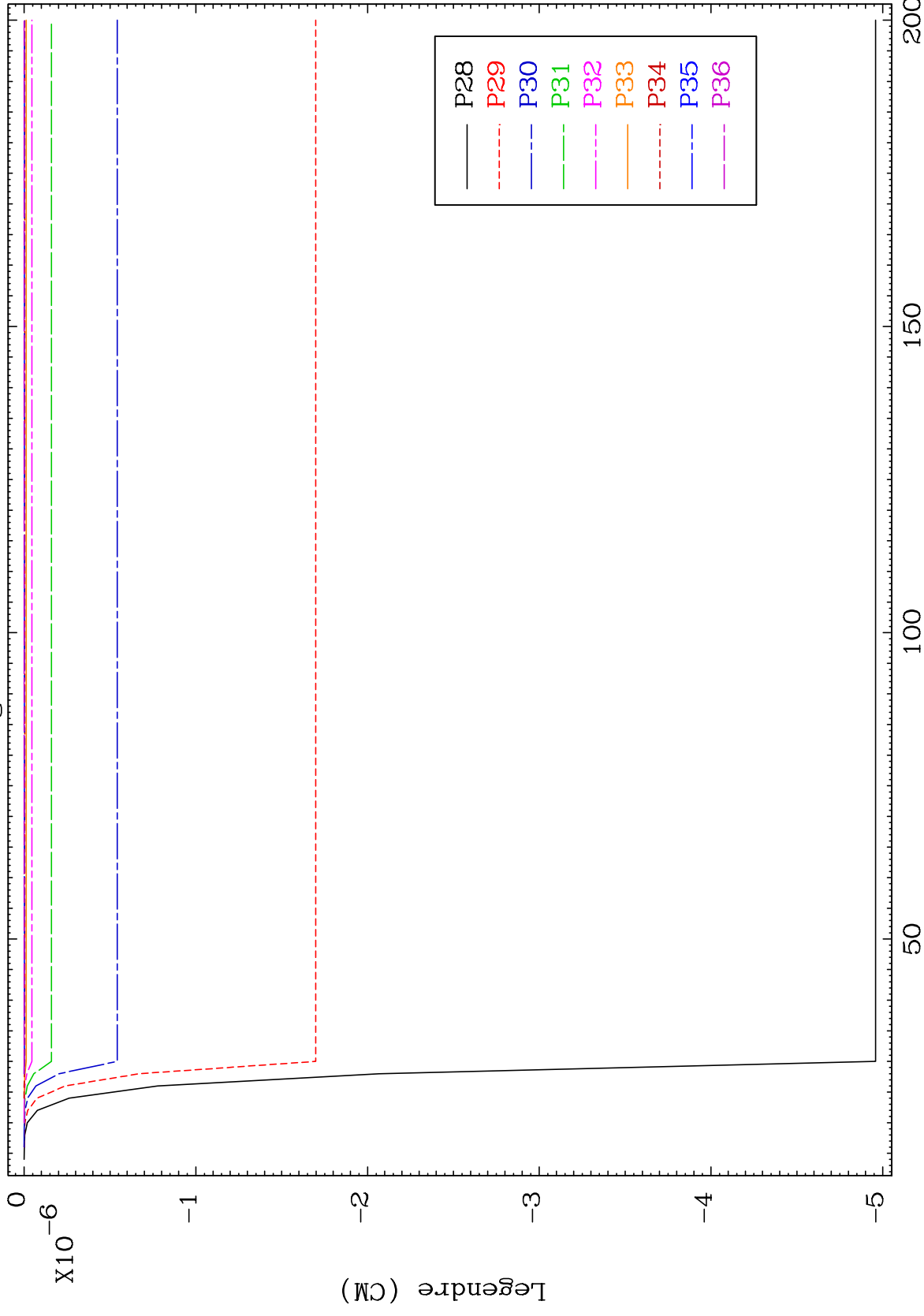
MAT 5128 MT= 80 (n,n') Level Legendre Coefficients 51-Sb-122



MAT 5128

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

51-Sb-122



51-Sb-122

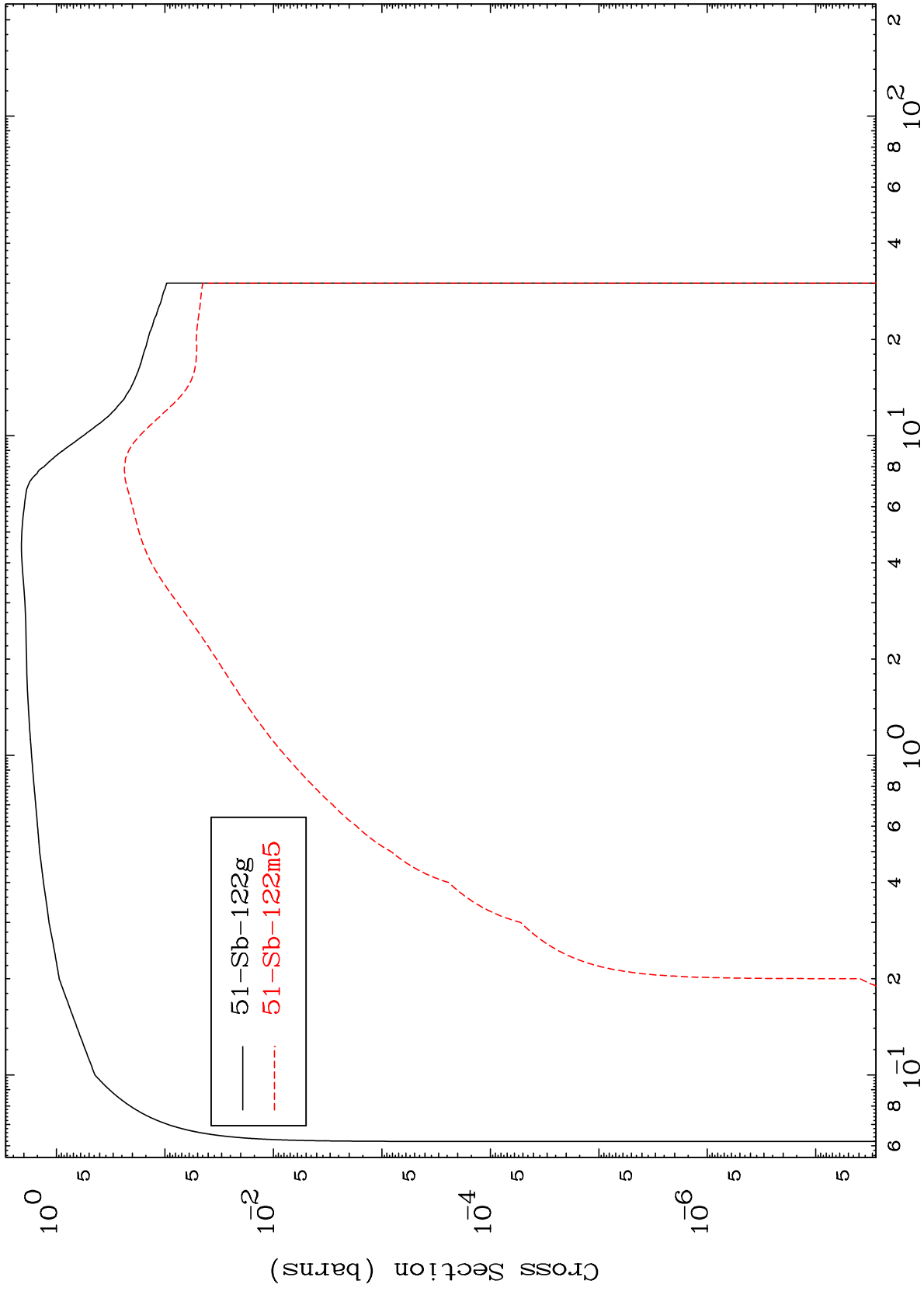
Incident Energy (MeV)

124

MAT 5128

51-Sb-122

Inelastic
Radionuclide Production Cross Section



125

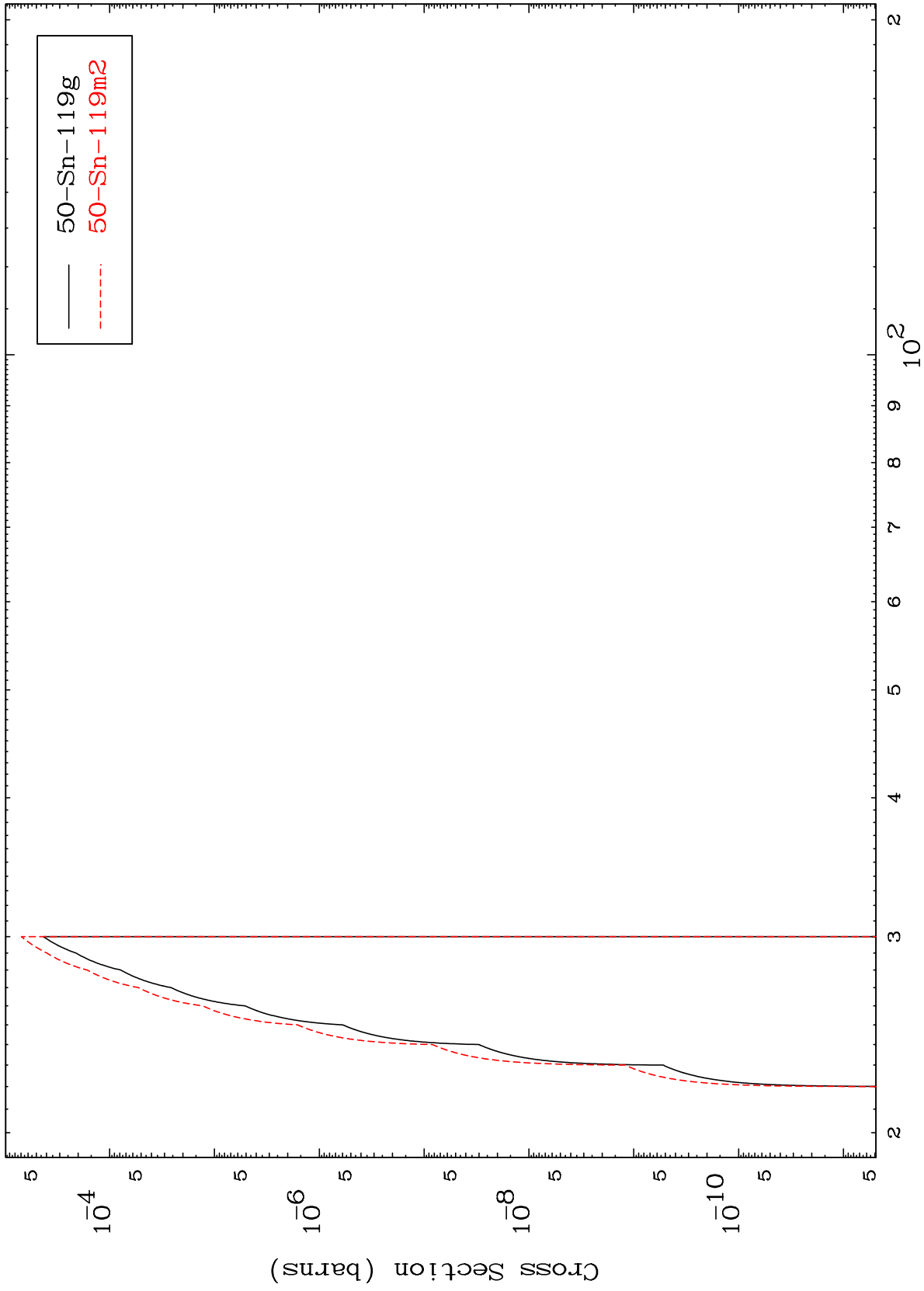
51-Sb-122

MAT 5128

(n,2n) d

51-Sb-122

Radionuclide Production Cross Section



126

Incident Energy (MeV)

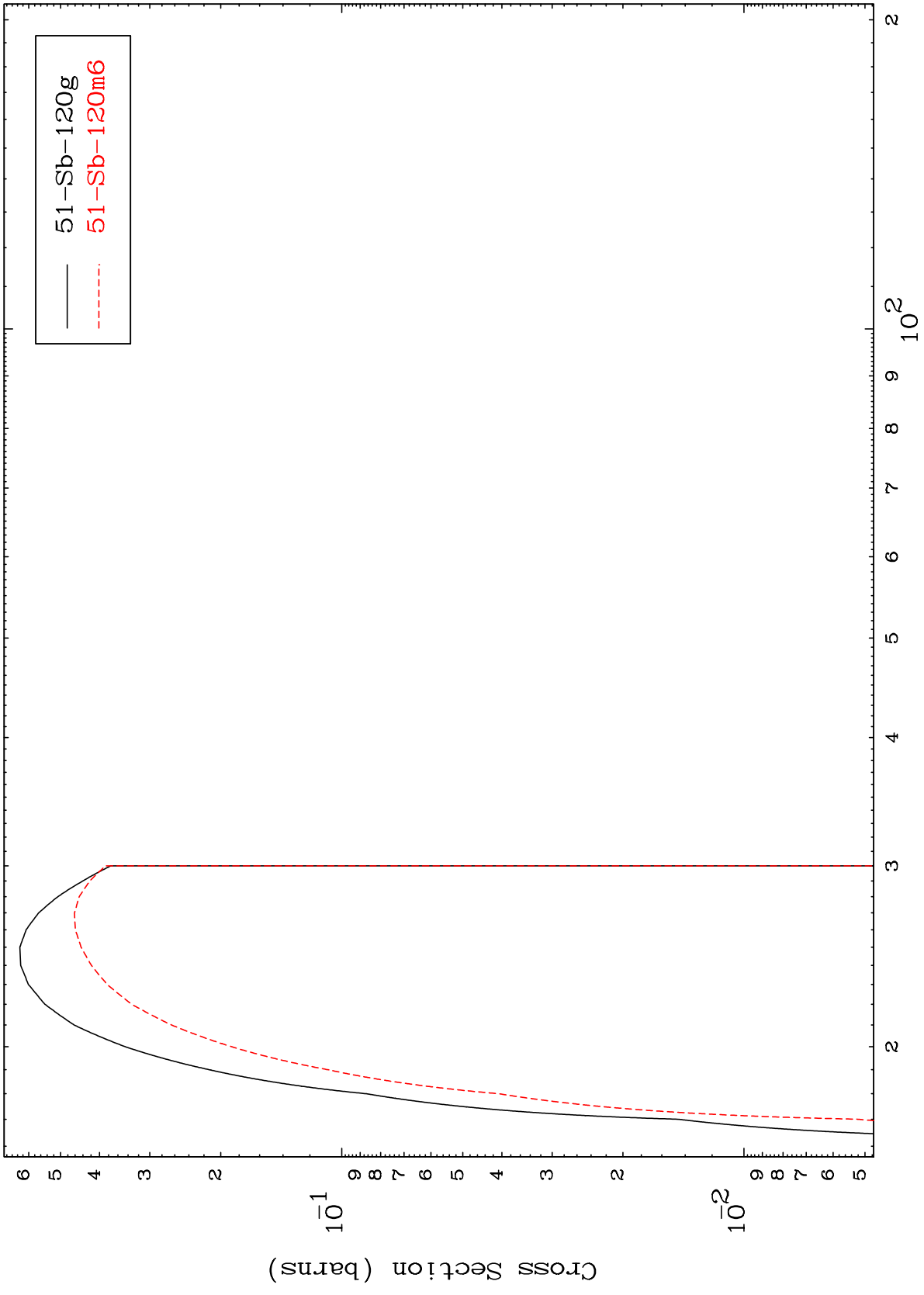
51-Sb-122

MAT 5128

(n,3n)

51-Sb-122

Radionuclide Production Cross Section



127

Incident Energy (MeV)

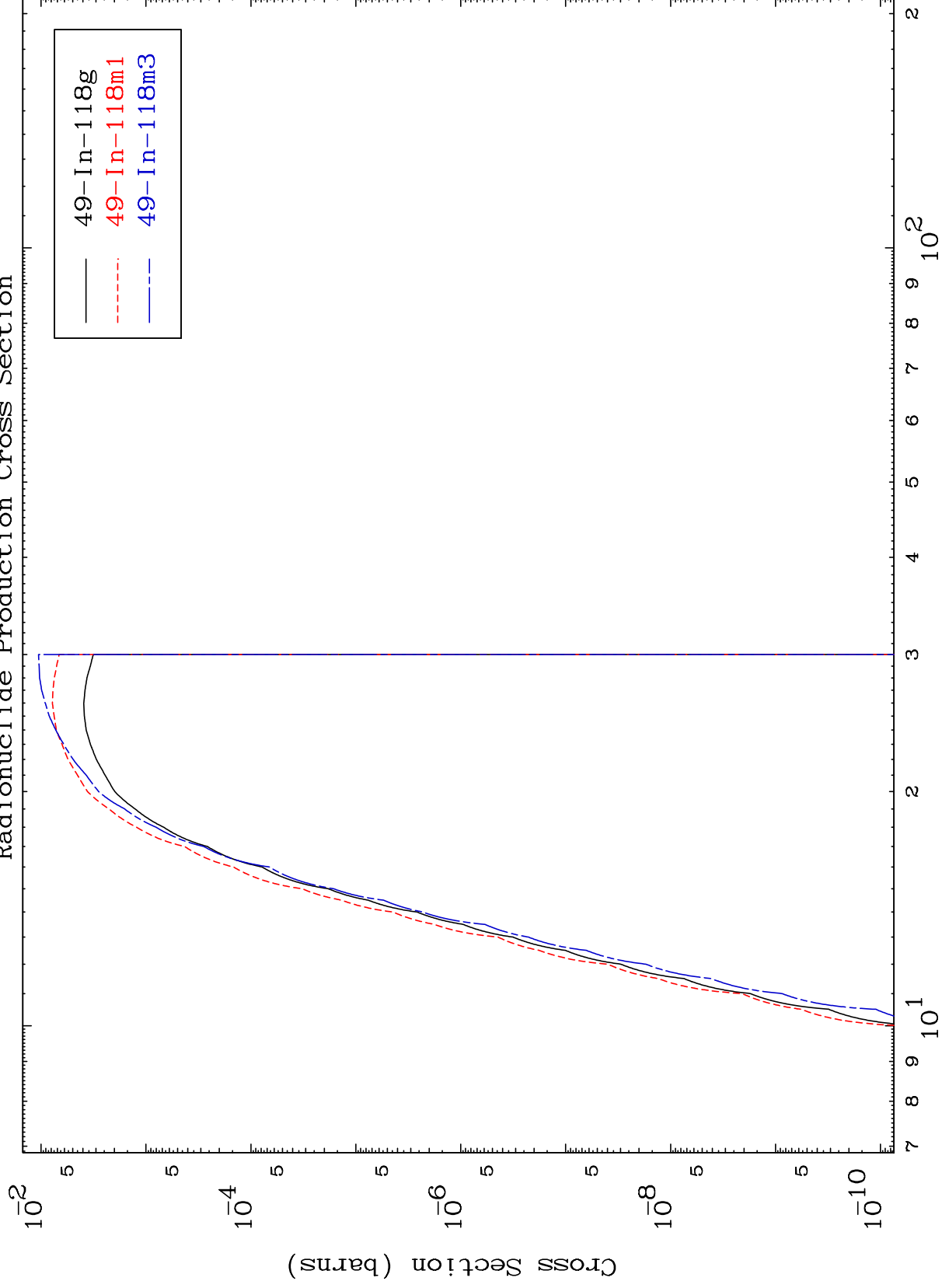
51-Sb-122

MAT 5128

(n,n') α

51-Sb-122

Radionuclide Production Cross Section



128

Incident Energy (MeV)

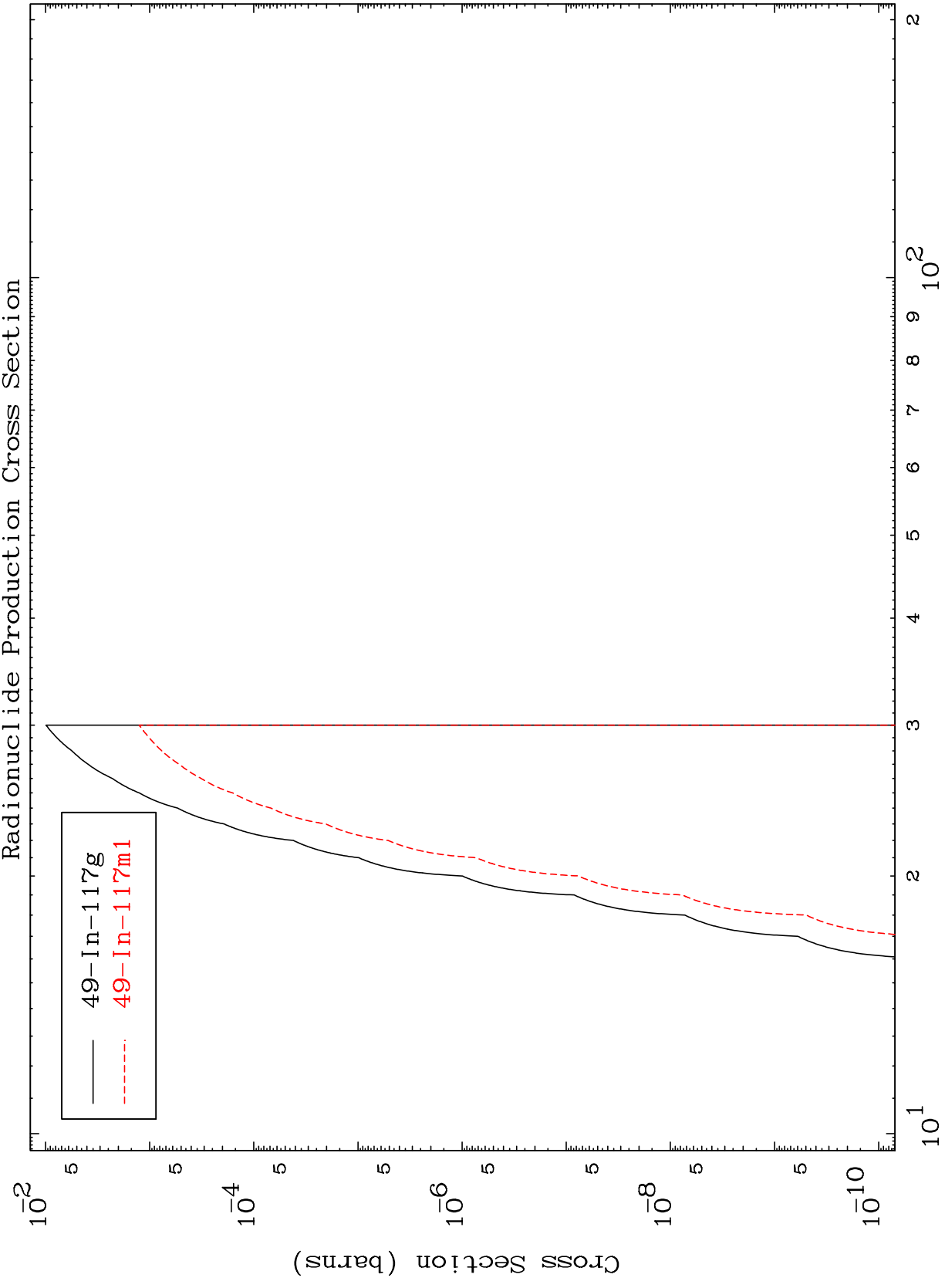
51-Sb-122

MAT 5128

(n,2n) α

51-Sb-122

Radionuclide Production Cross Section



129

Incident Energy (MeV)

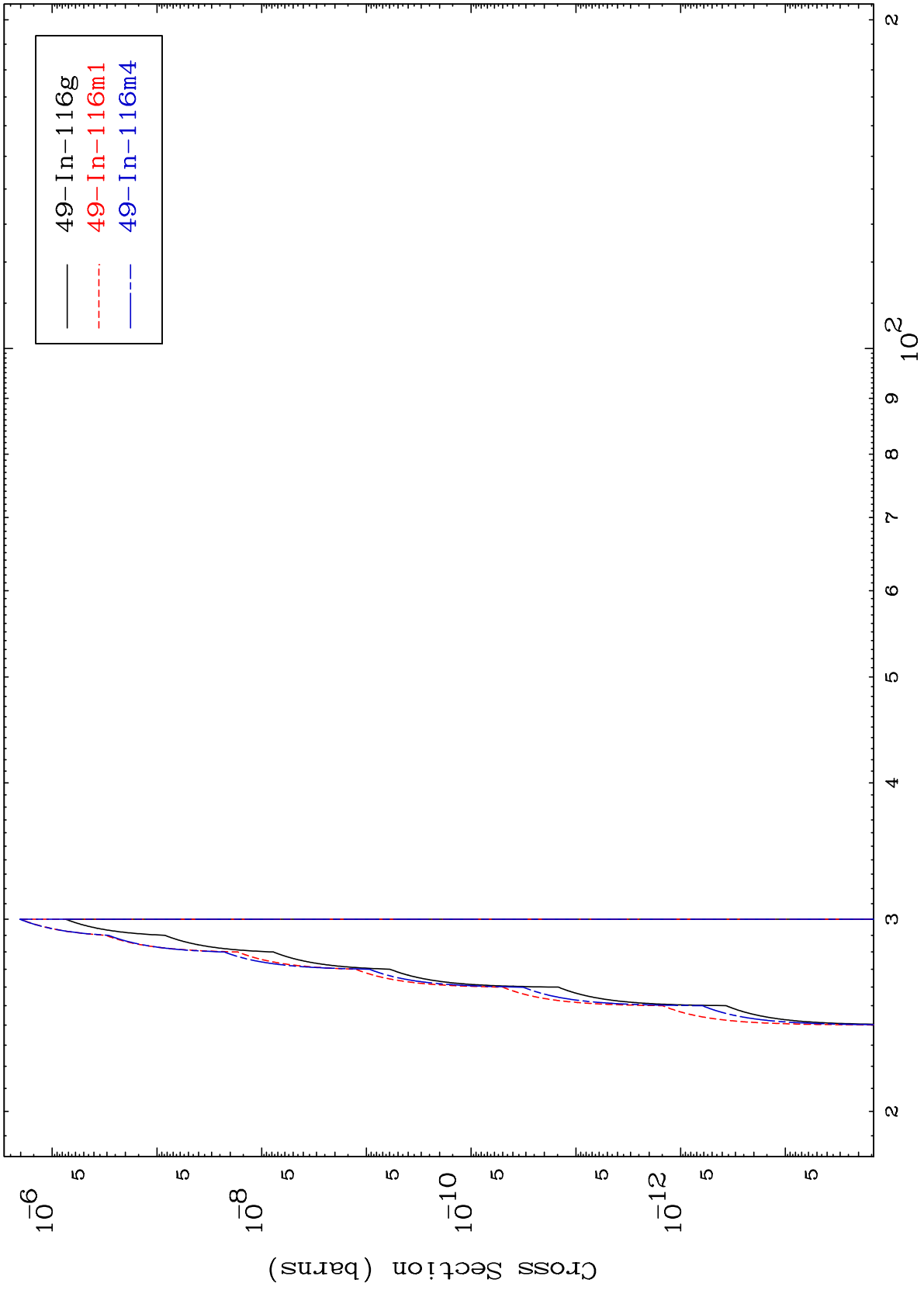
51-Sb-122

MAT 5128

(n,3n) α

51-Sb-122

Radionuclide Production Cross Section



130

Incident Energy (MeV)

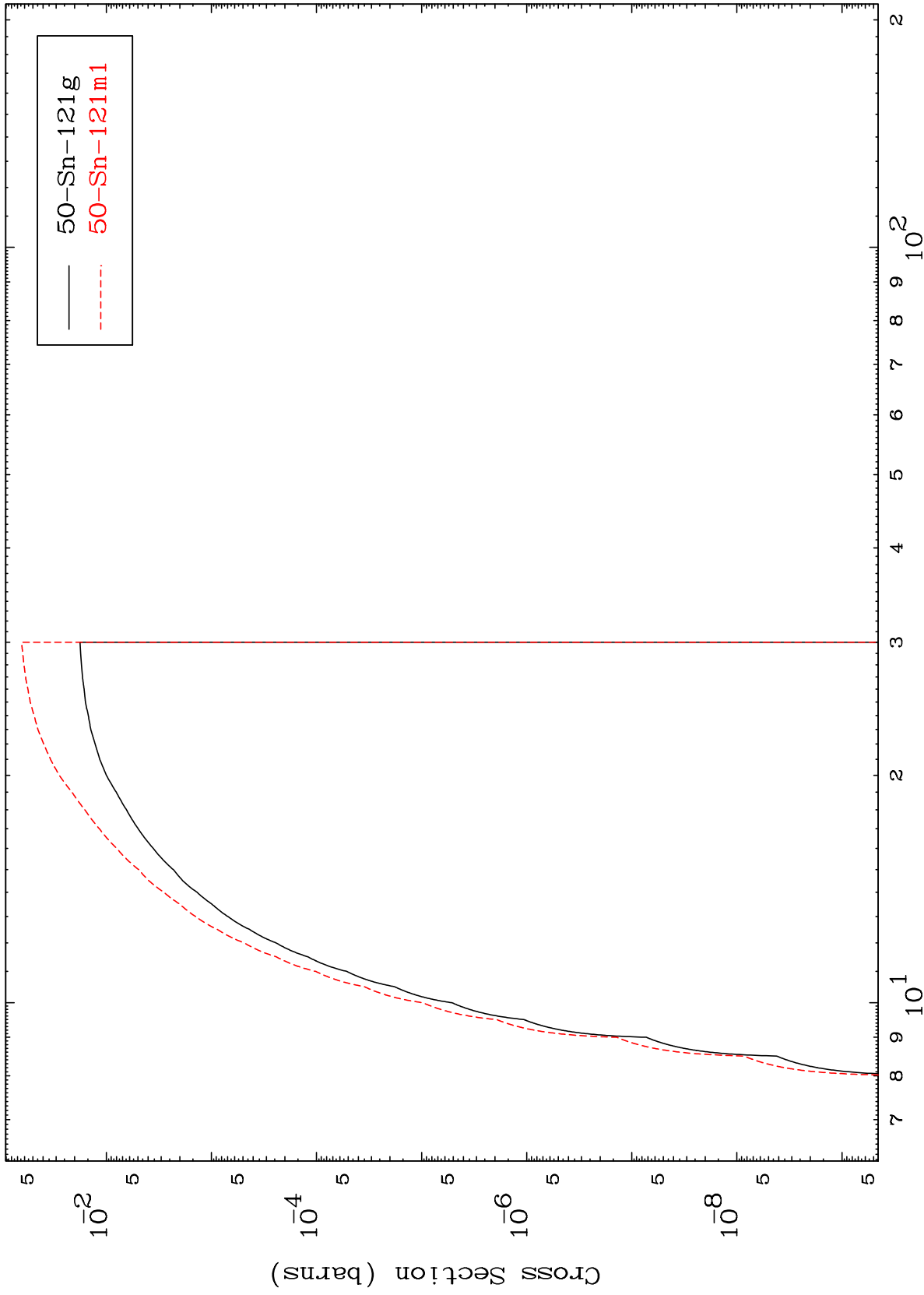
51-Sb-122

MAT 5128

(n,n') p

51-Sb-122

Radionuclide Production Cross Section



131

Incident Energy (MeV)

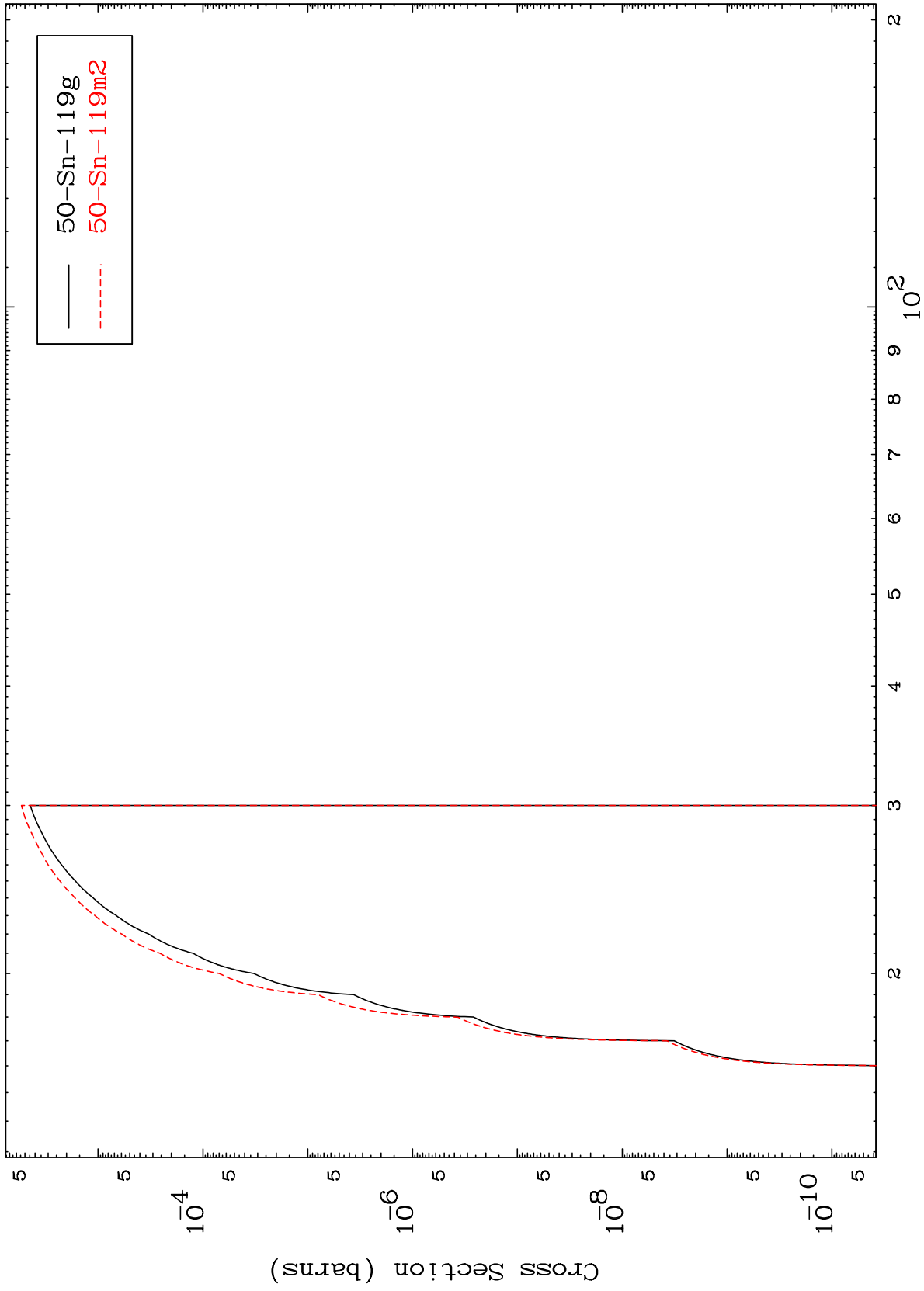
51-Sb-122

MAT 5128

(n,n') t

51-Sb-122

Radionuclide Production Cross Section

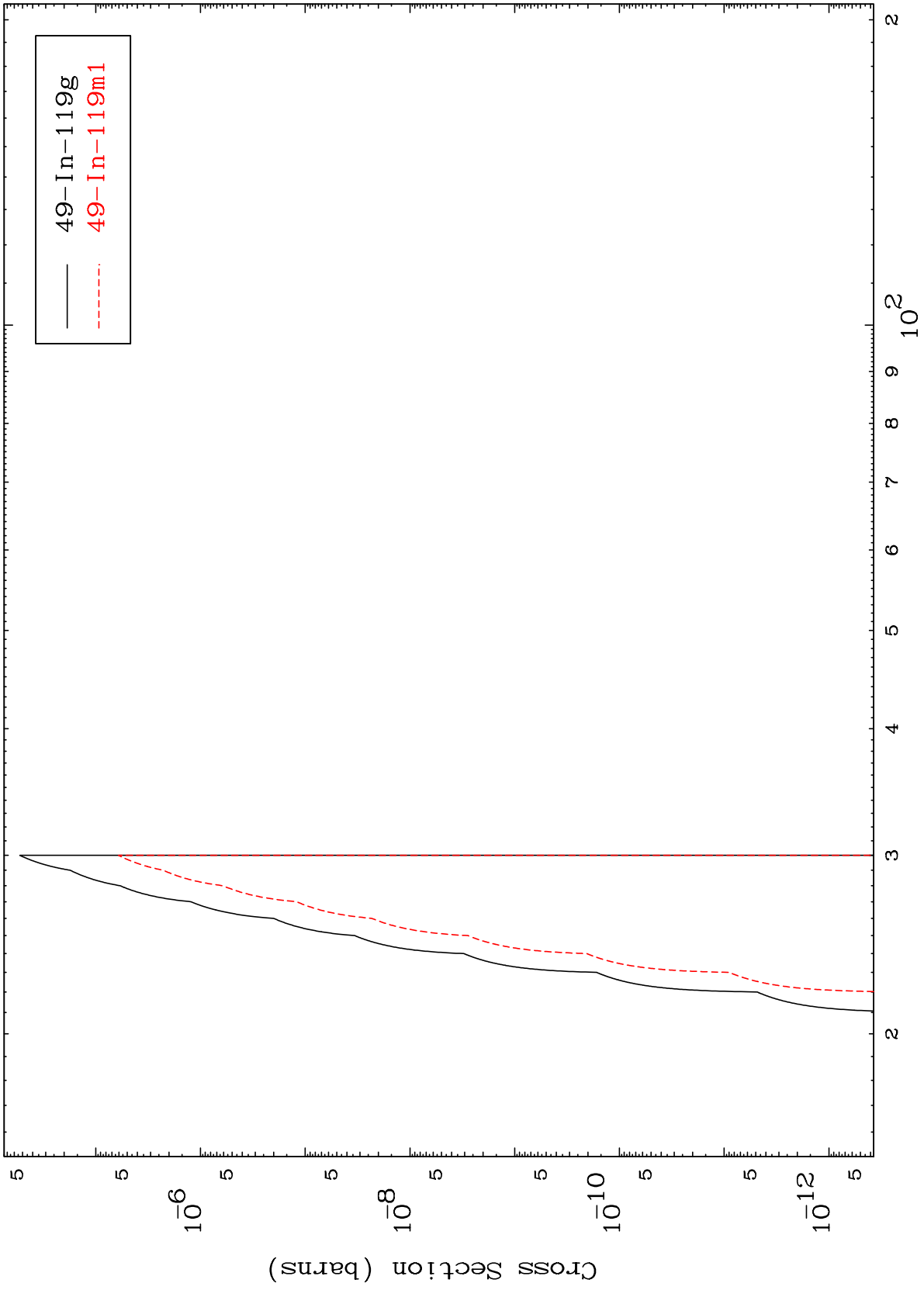


132

Incident Energy (MeV)

51-Sb-122

Radionuclide Production Cross Section

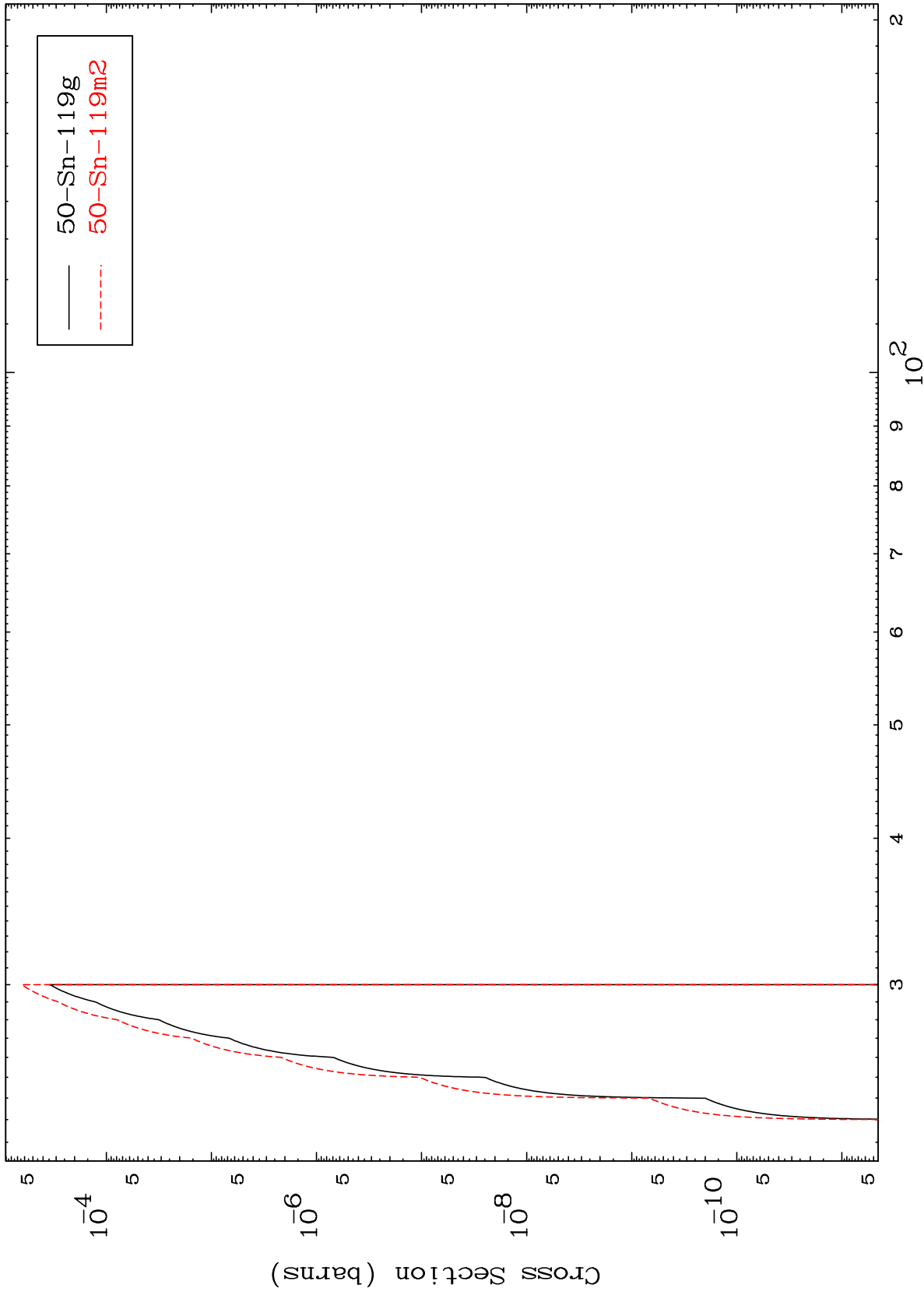


MAT 5128

(n,3n) p

51-Sb-122

Radionuclide Production Cross Section

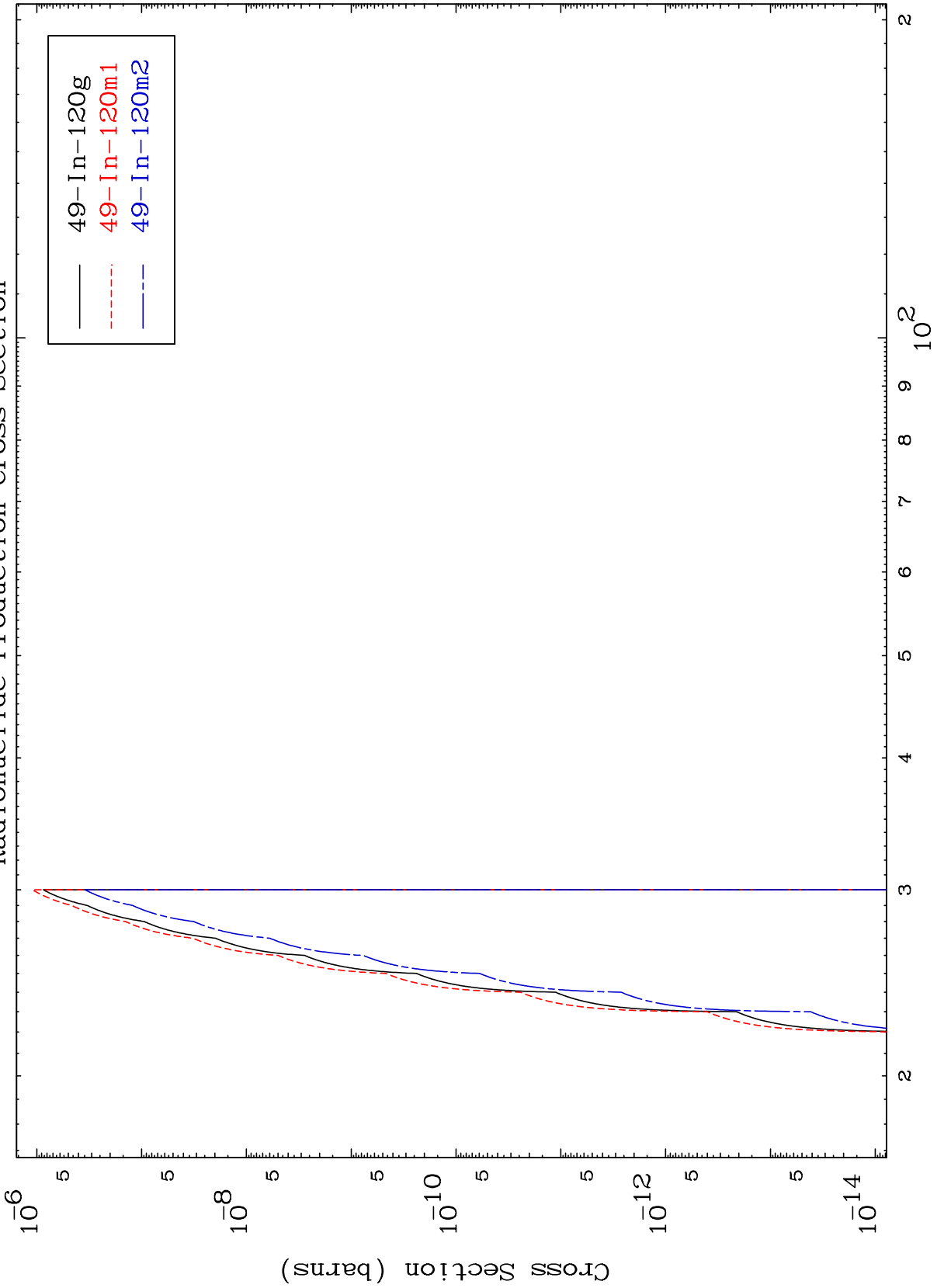


134

Incident Energy (MeV)

51-Sb-122

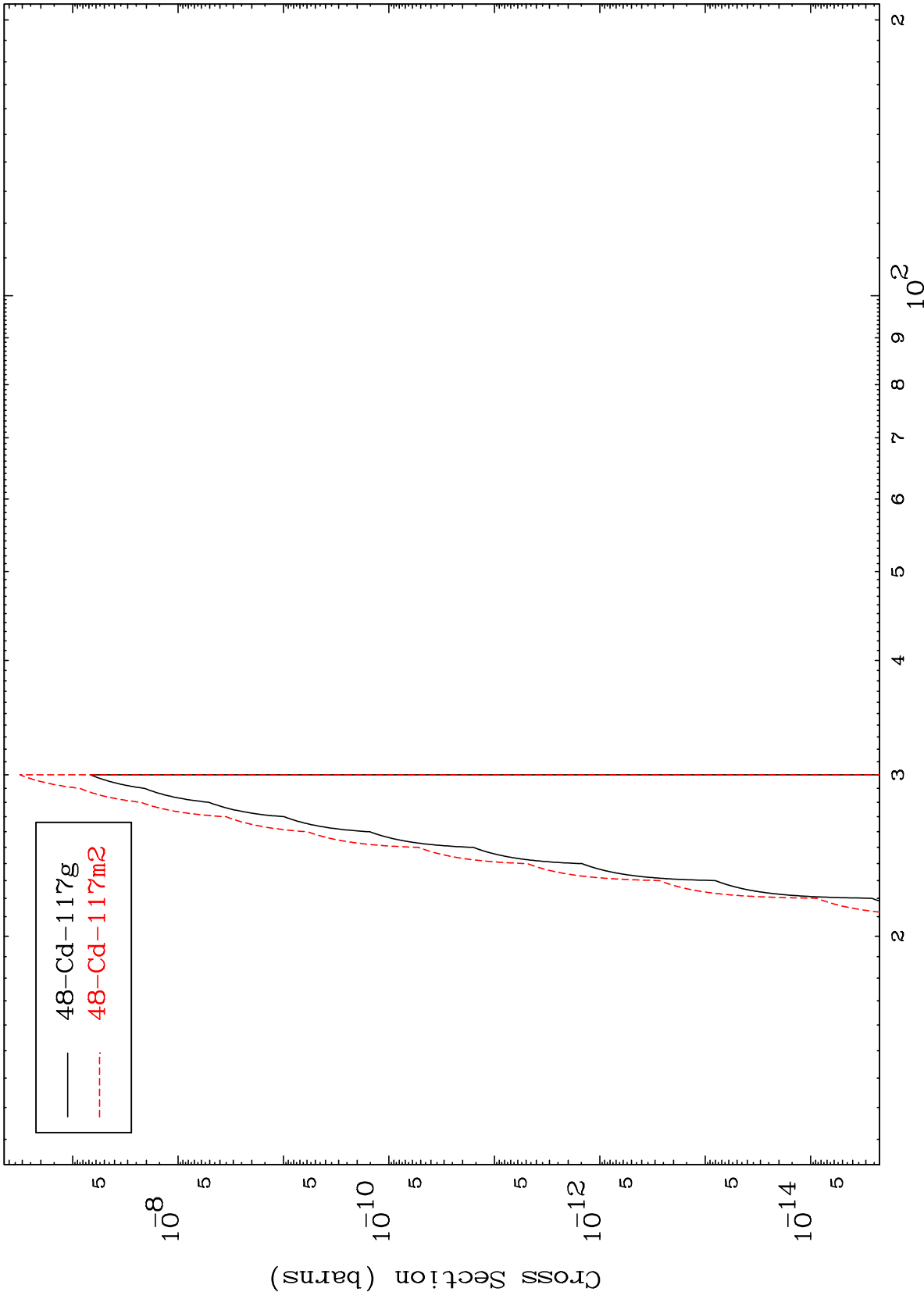
Radionuclide Production Cross Section



MAT 5128

51-Sb-122

(n,n') p α
Radionuclide Production Cross Section



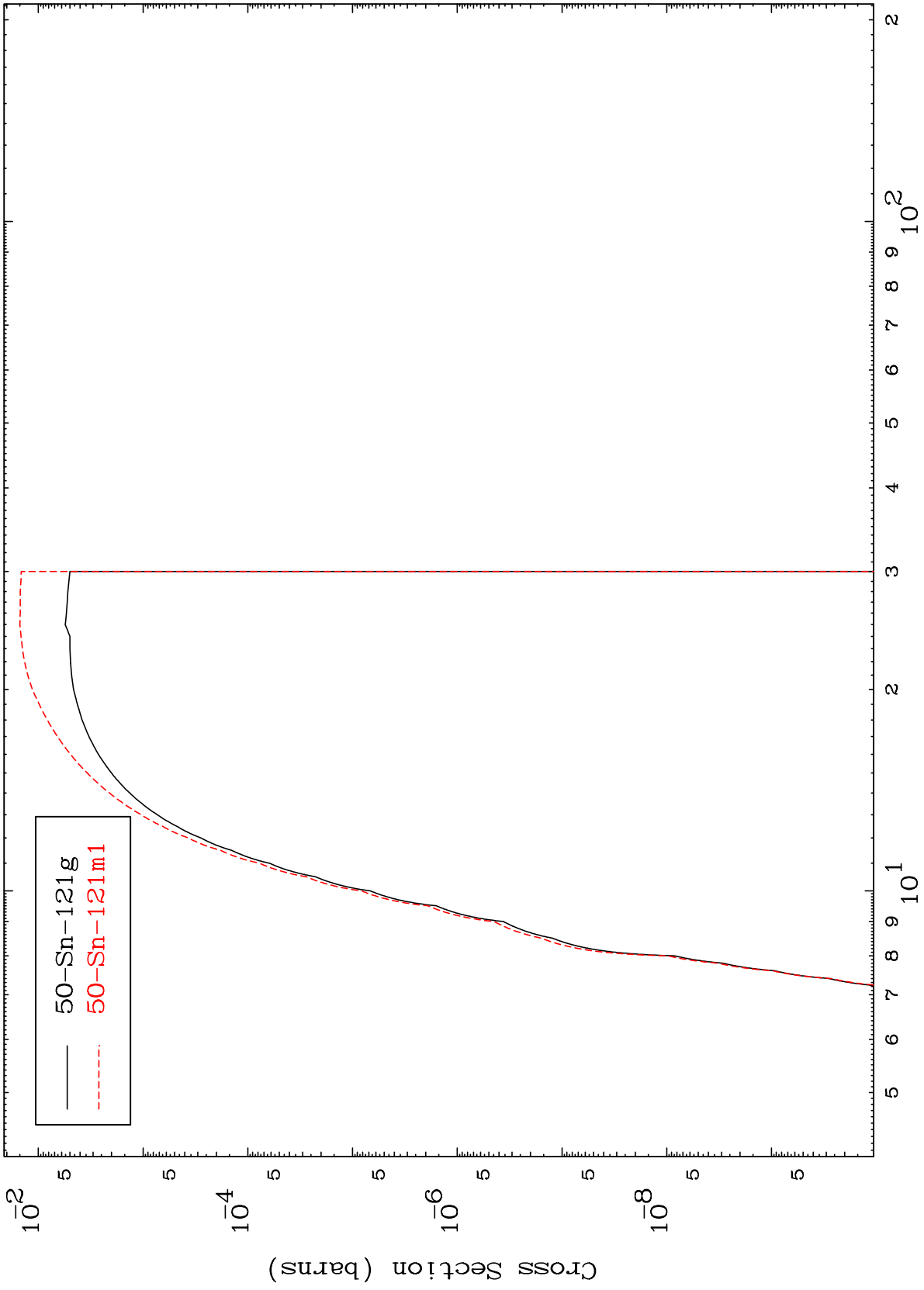
136

51-Sb-122

MAT 5128

51-Sb-122

(n,d)
Radionuclide Production Cross Section



137

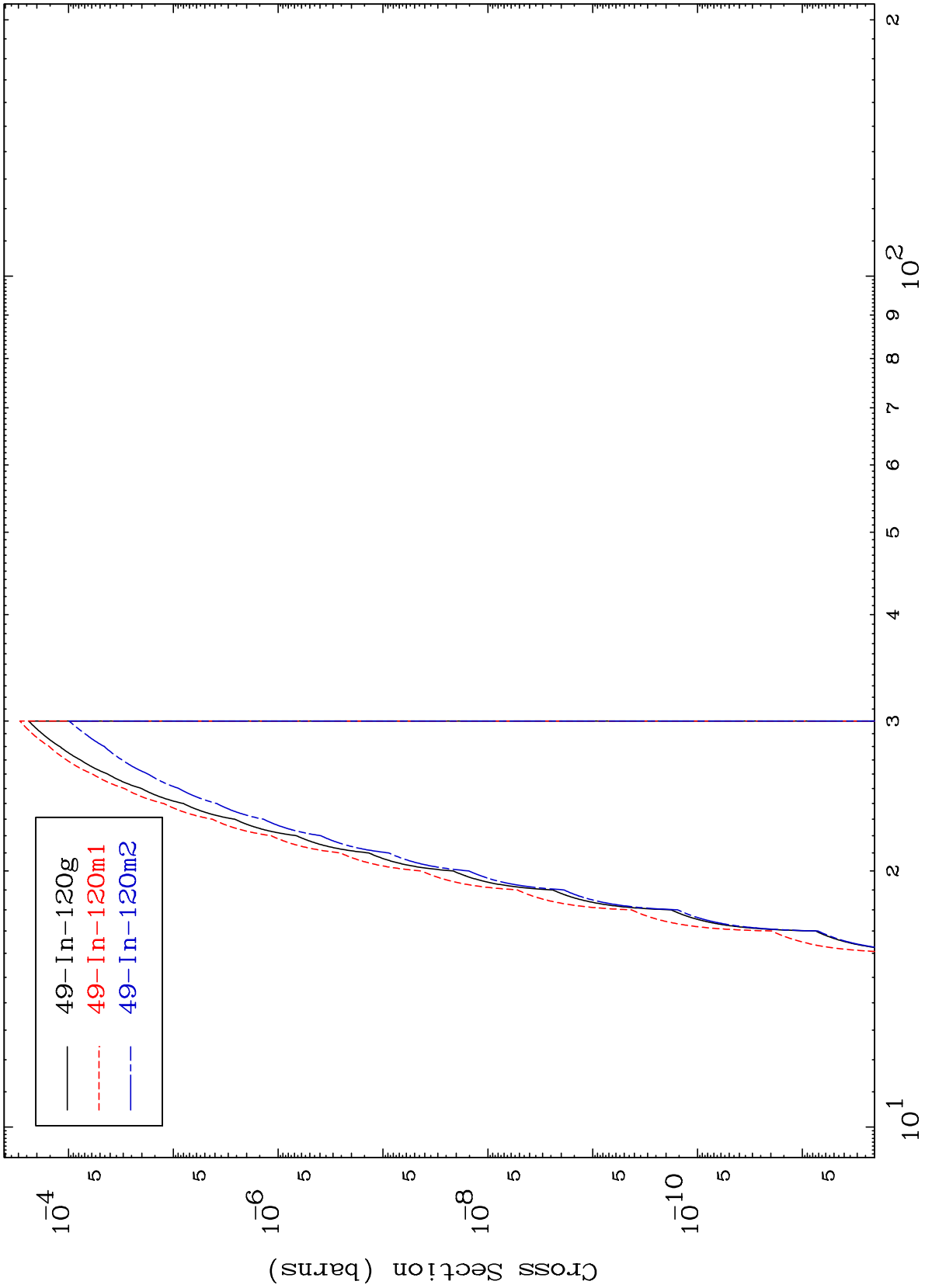
51-Sb-122

MAT 5128

(n,He-3)

51-Sb-122

Radionuclide Production Cross Section



49-In-120g
49-In-120m1
49-In-120m2

138

Incident Energy (MeV)

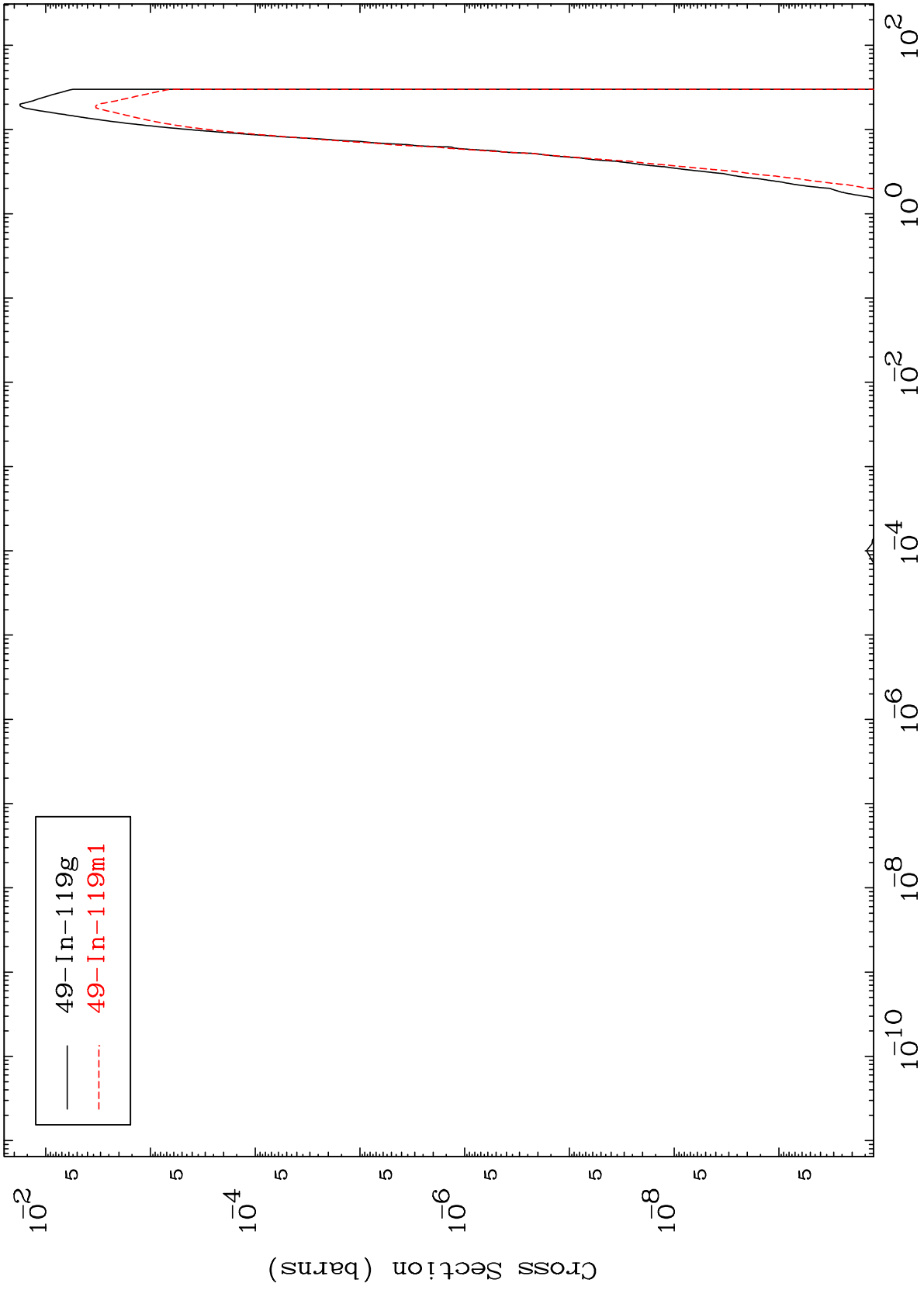
51-Sb-122

MAT 5128

(n, α)

51-Sb-122

Radionuclide Production Cross Section



139

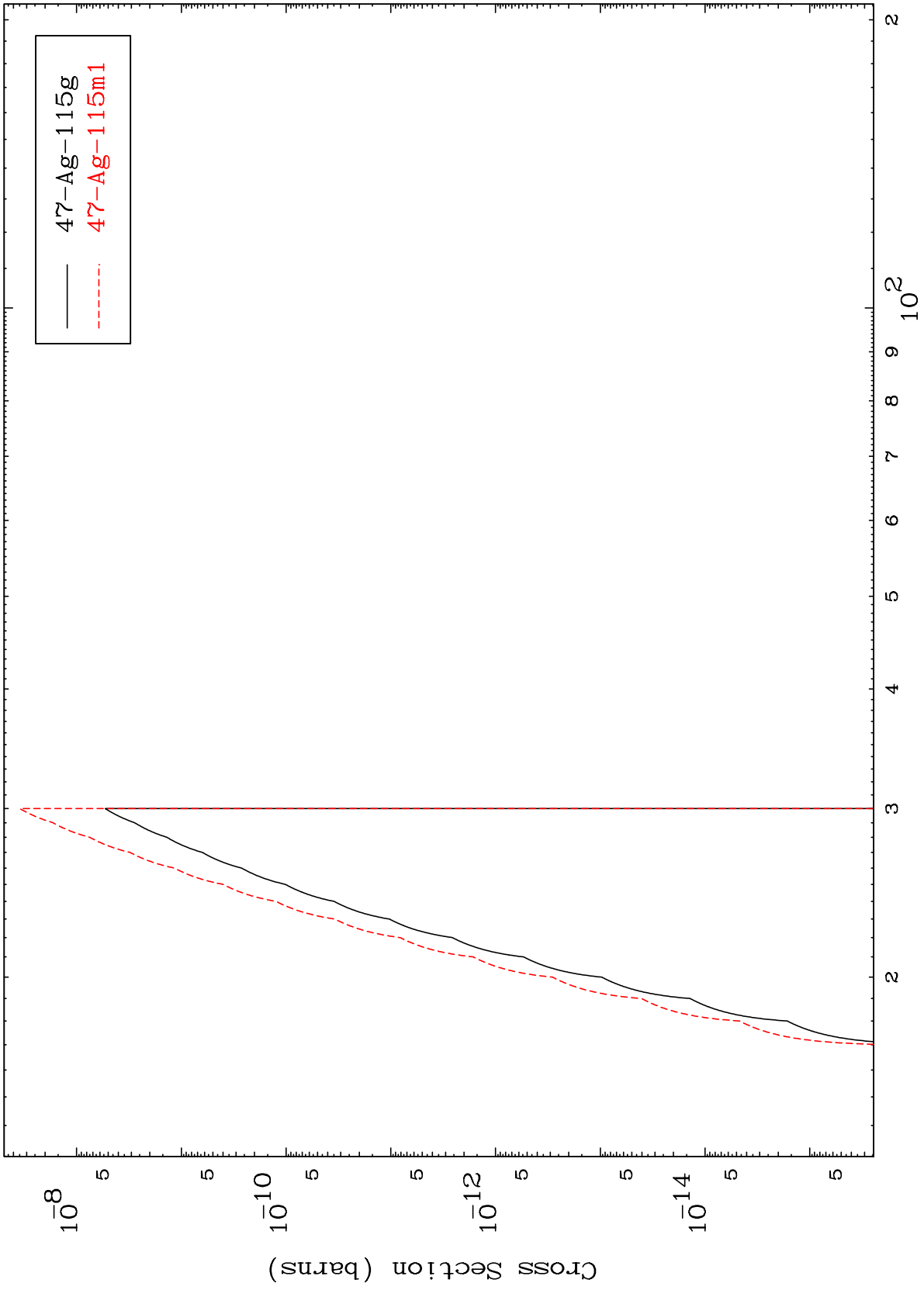
Incident Energy (MeV)

51-Sb-122

MAT 5128

51-Sb-122

(n,2α)
Radionuclide Production Cross Section



140

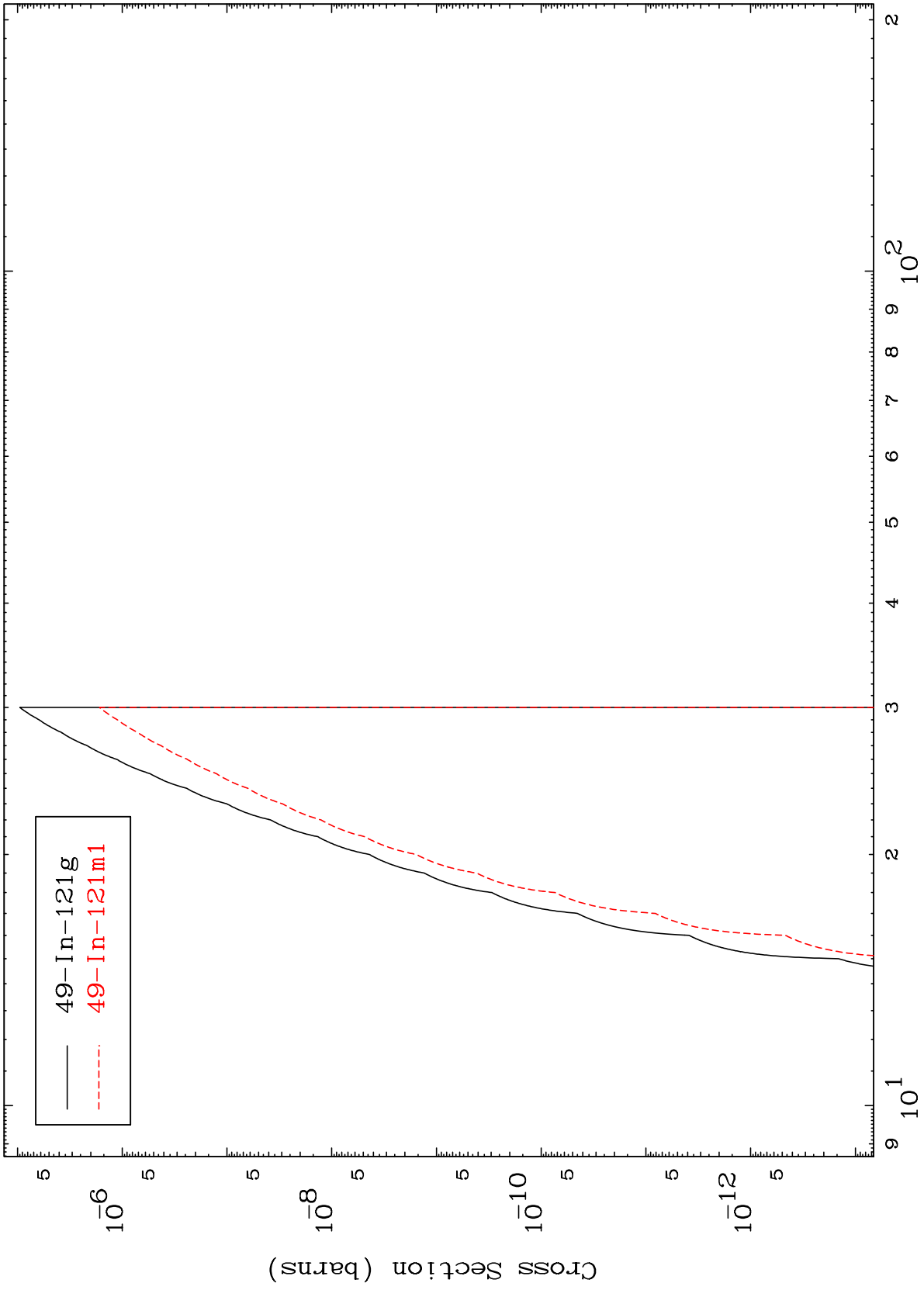
Incident Energy (MeV)

51-Sb-122

MAT 5128

51-Sb-122

Radionuclide Production Cross Section
(n,2p)



141

Incident Energy (MeV)

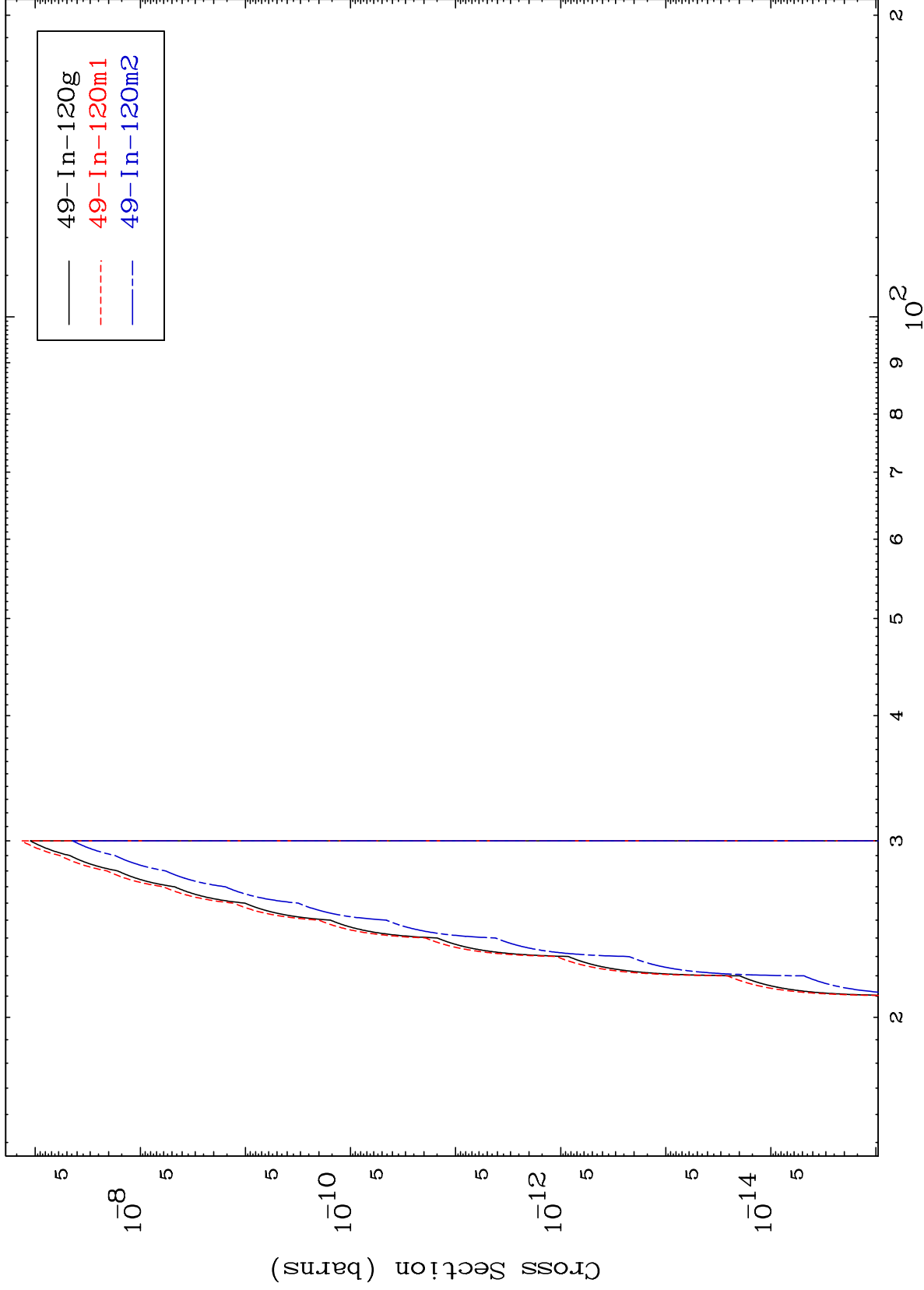
51-Sb-122

MAT 5128

(n,p) d

51-Sb-122

Radionuclide Production Cross Section



142

Incident Energy (MeV)

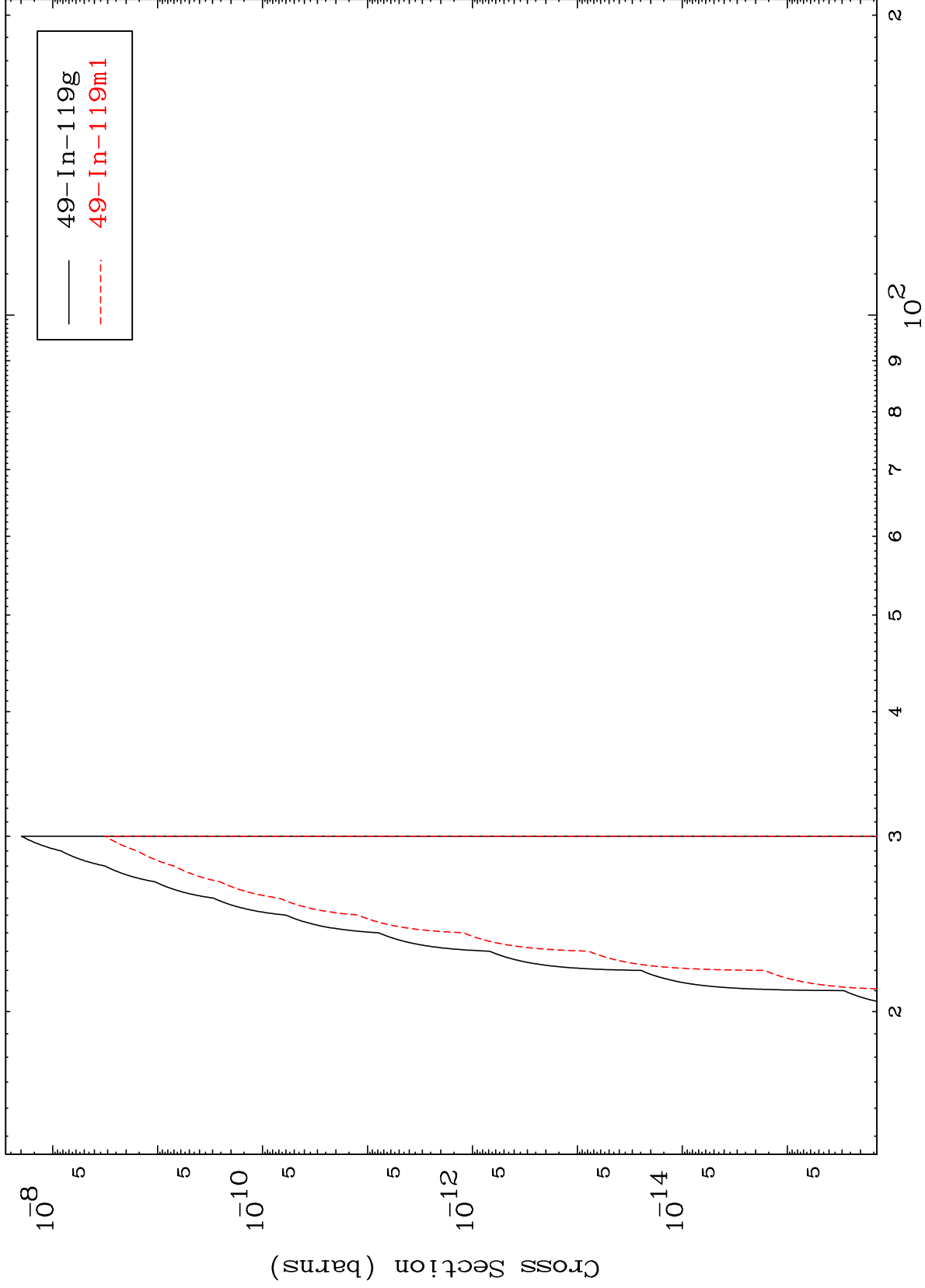
51-Sb-122

MAT 5128

(n,p) t

51-Sb-122

Radionuclide Production Cross Section



143

Incident Energy (MeV)

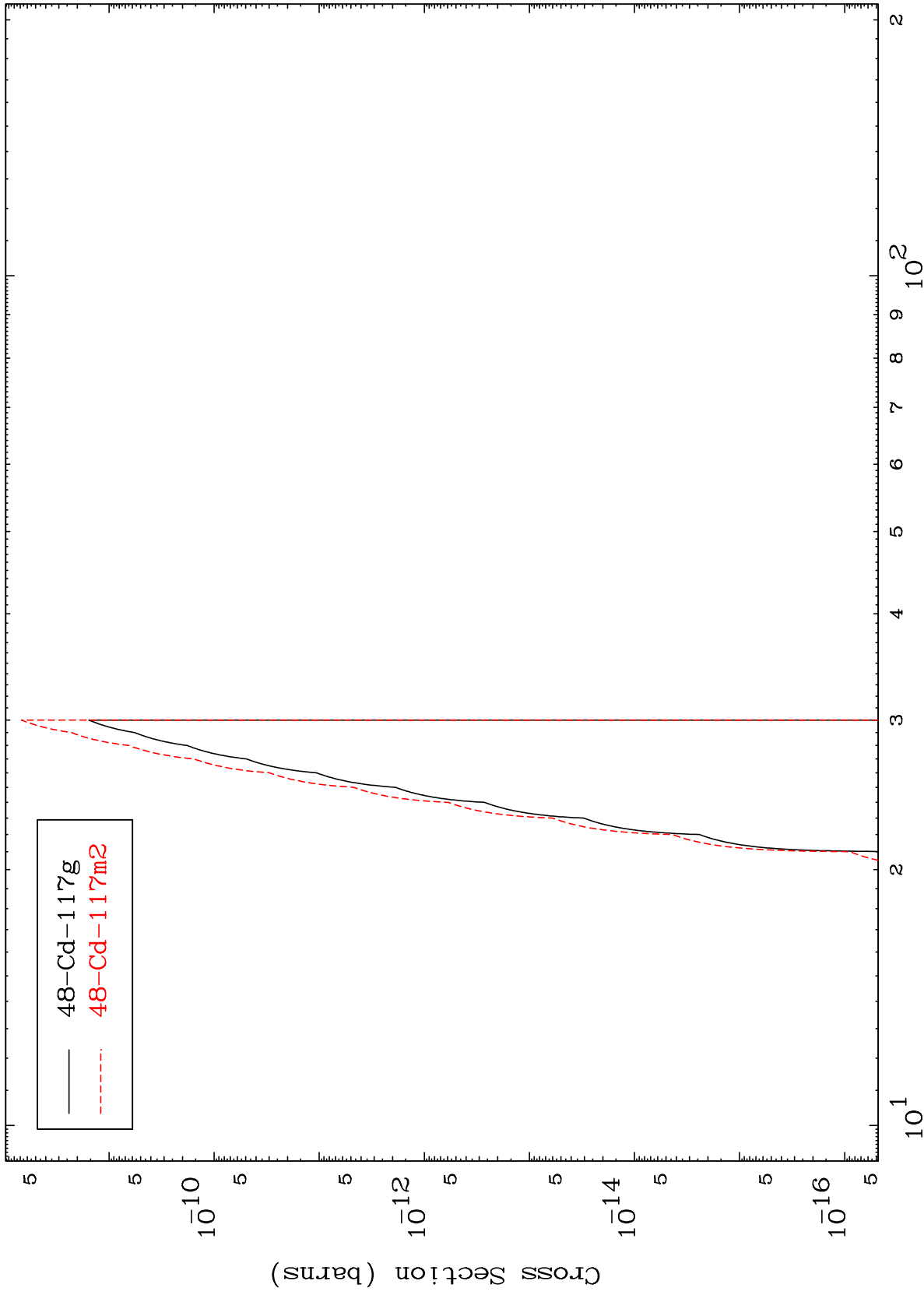
51-Sb-122

MAT 5128

(n,d) α

51-Sb-122

Radionuclide Production Cross Section



144

Incident Energy (MeV)

51-Sb-122