

Program EVALPLOT  
(Version 2018-1)

by

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(Present Contact Information)

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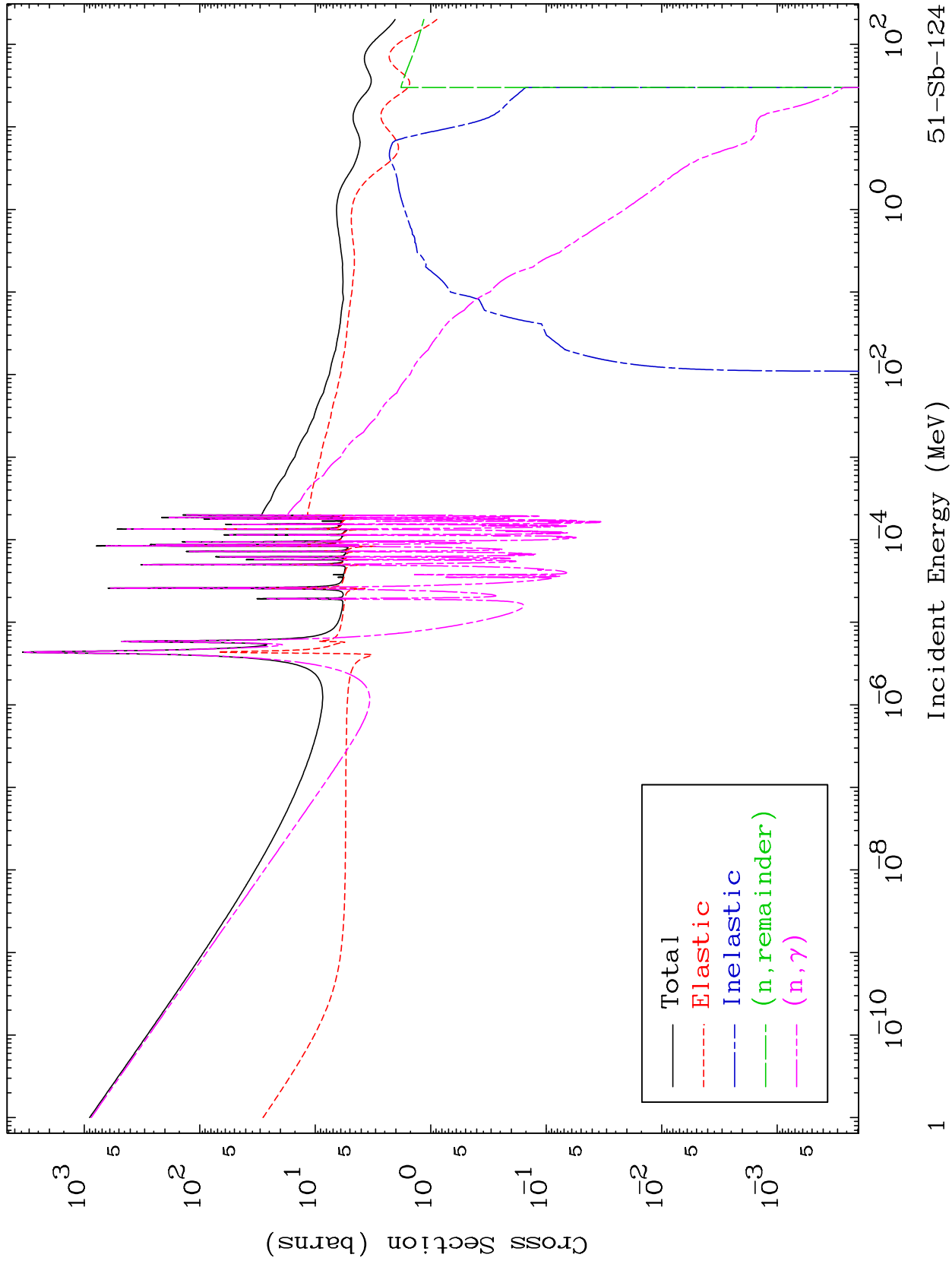
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5134

Major  
293 Kelvin Cross Sections

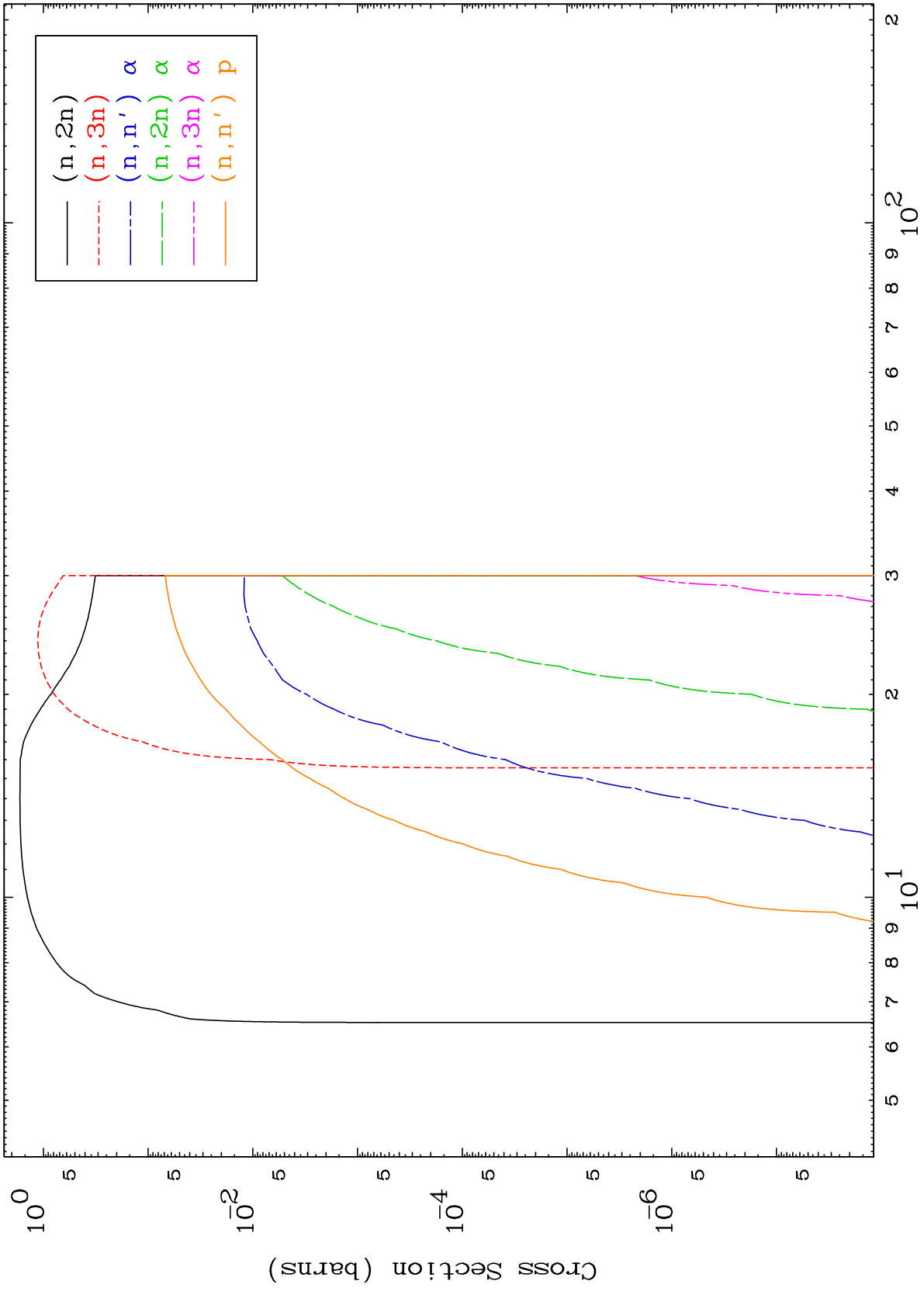
51-Sb-124



MAT 5134

Neutron Production  
293 Kelvin Cross Sections

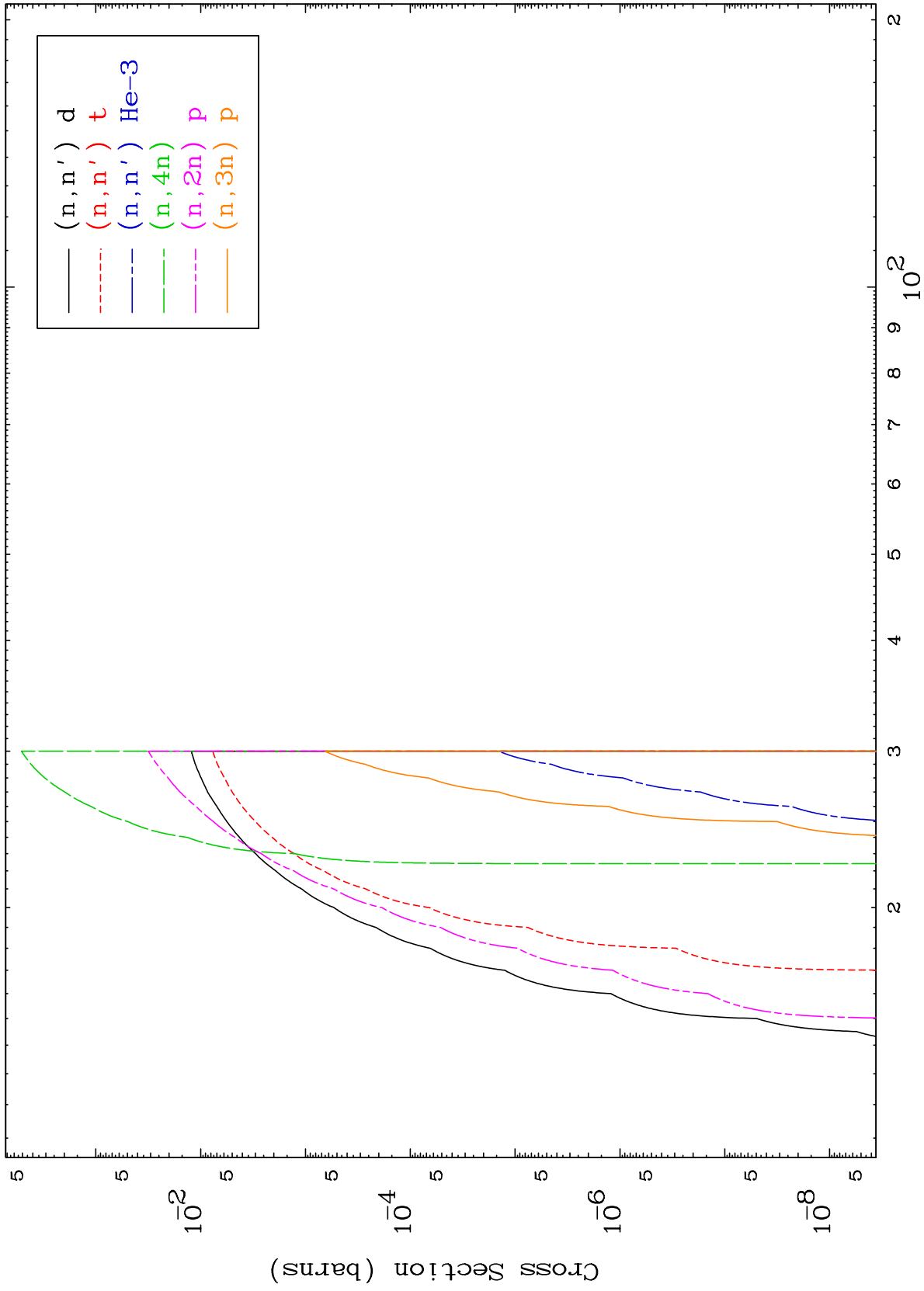
51-Sb-124

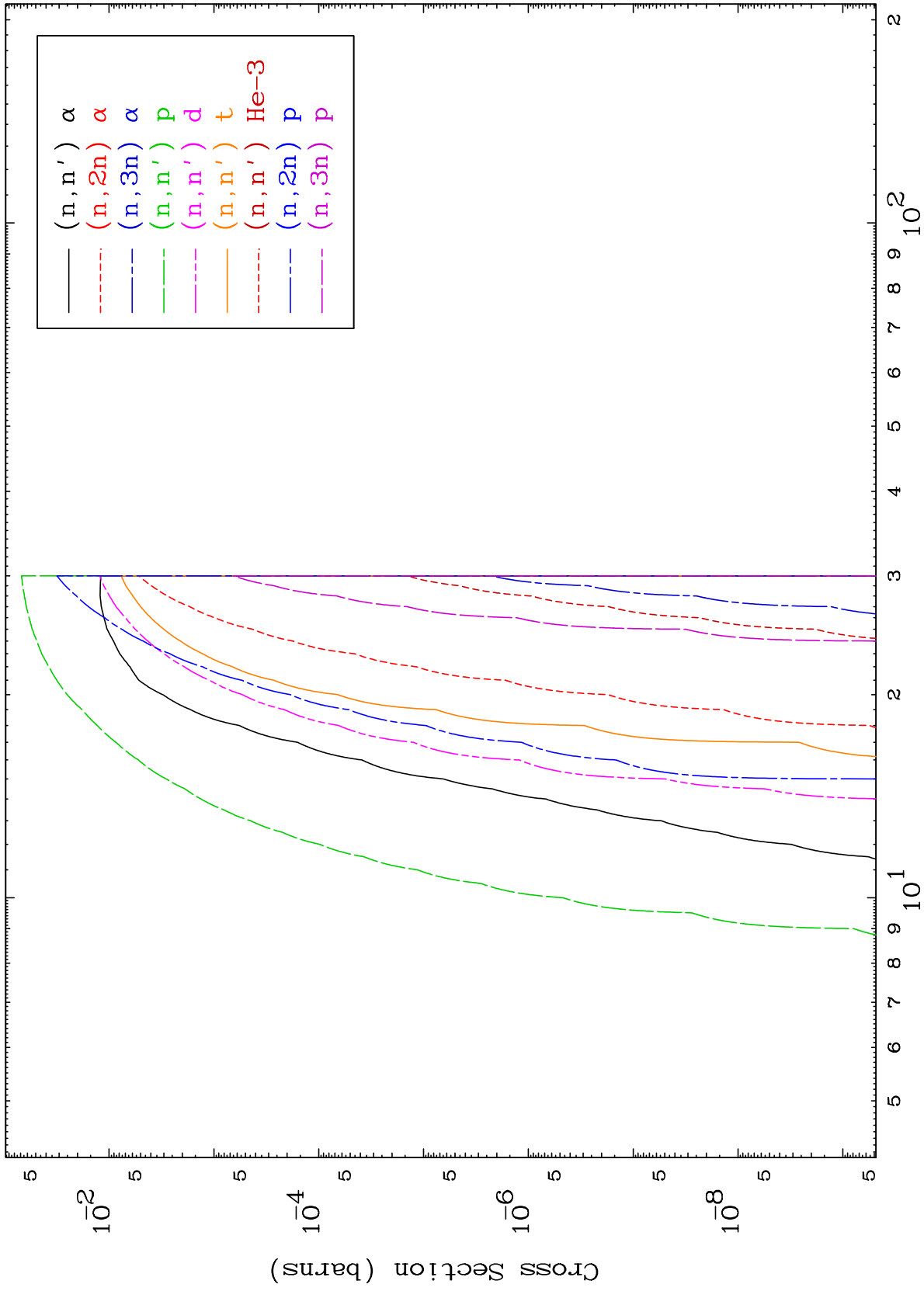


2

Incident Energy (MeV)

51-Sb-124

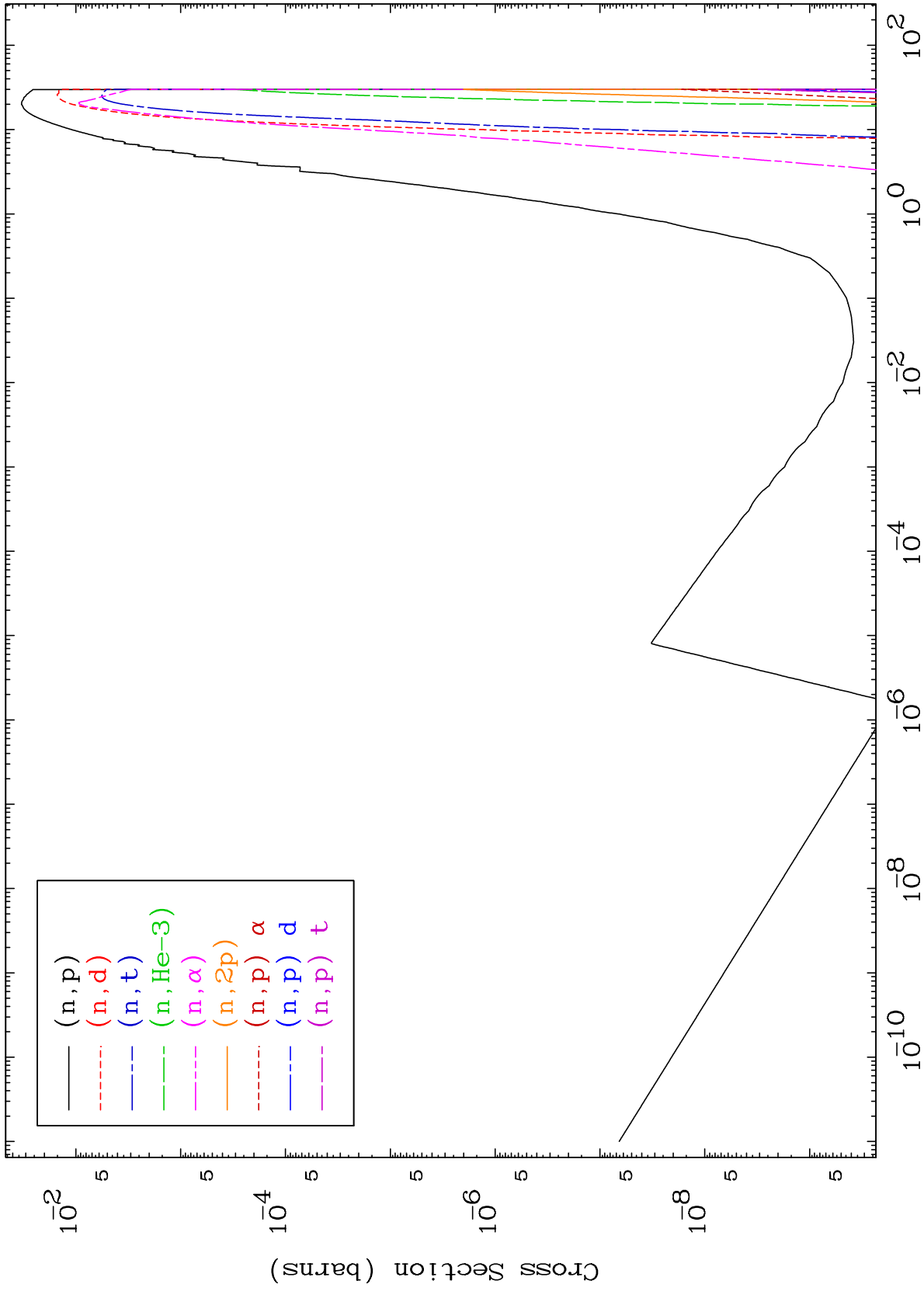




MAT 5134

293 Kelvin Cross Sections

51-Sb-124



5

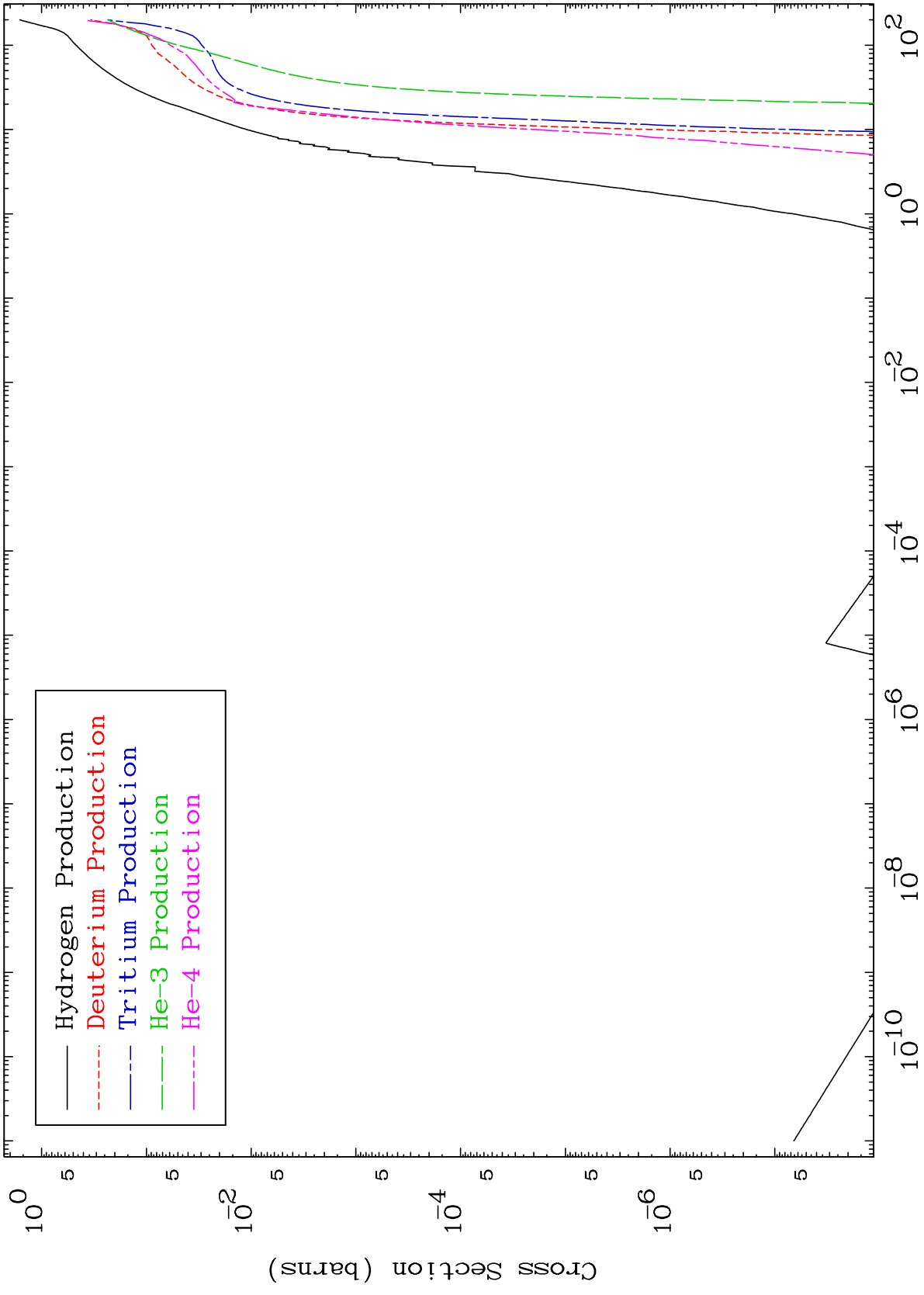
Incident Energy (MeV)

51-Sb-124

MAT 5134

Particle Production  
293 Kelvin Cross Sections

51-Sb-124



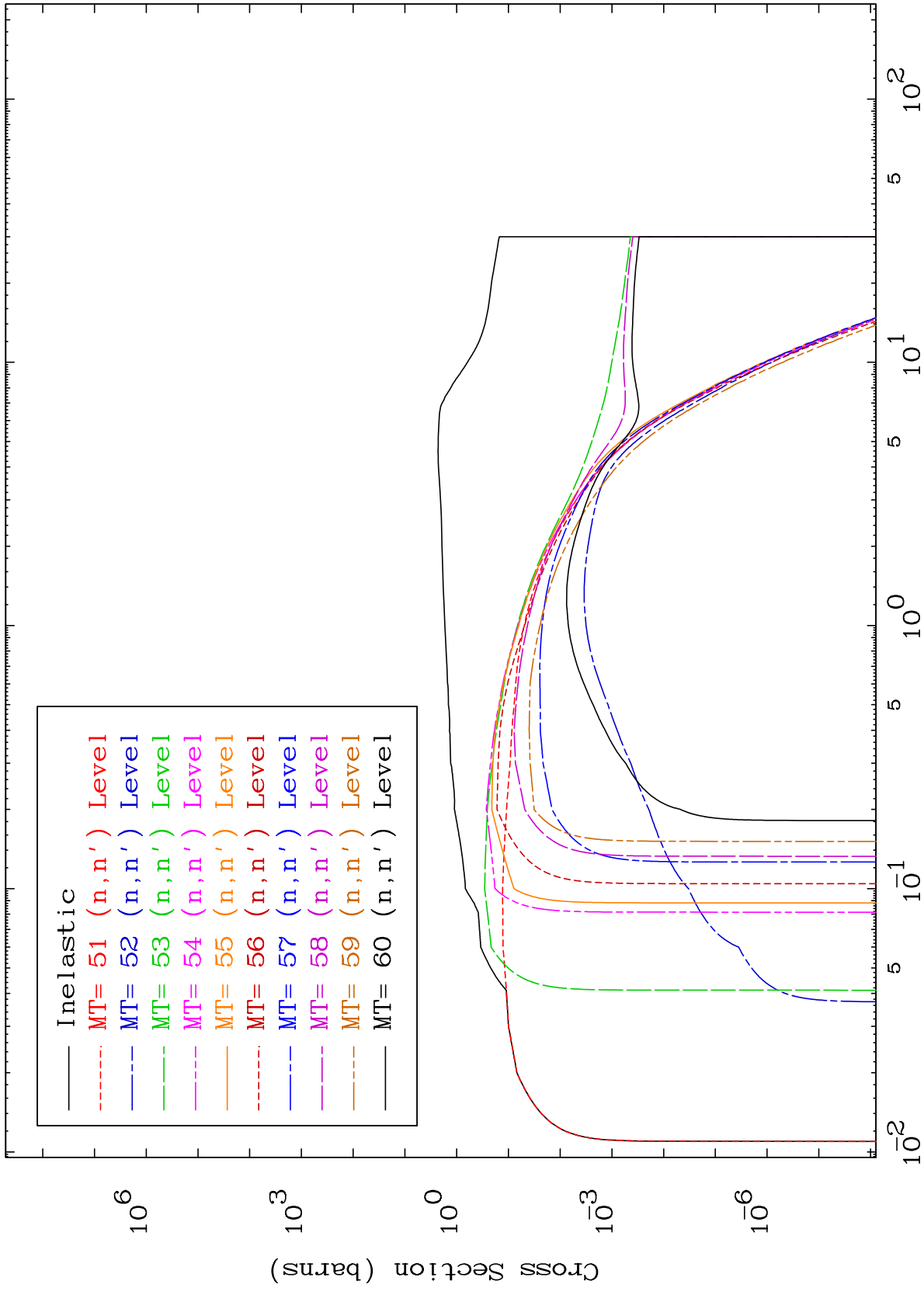
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51-Sb-124

MAT 5134

(n,n') Level  
293 Kelvin Cross Sections

51-Sb-124



51-Sb-124

Incident Energy (MeV)

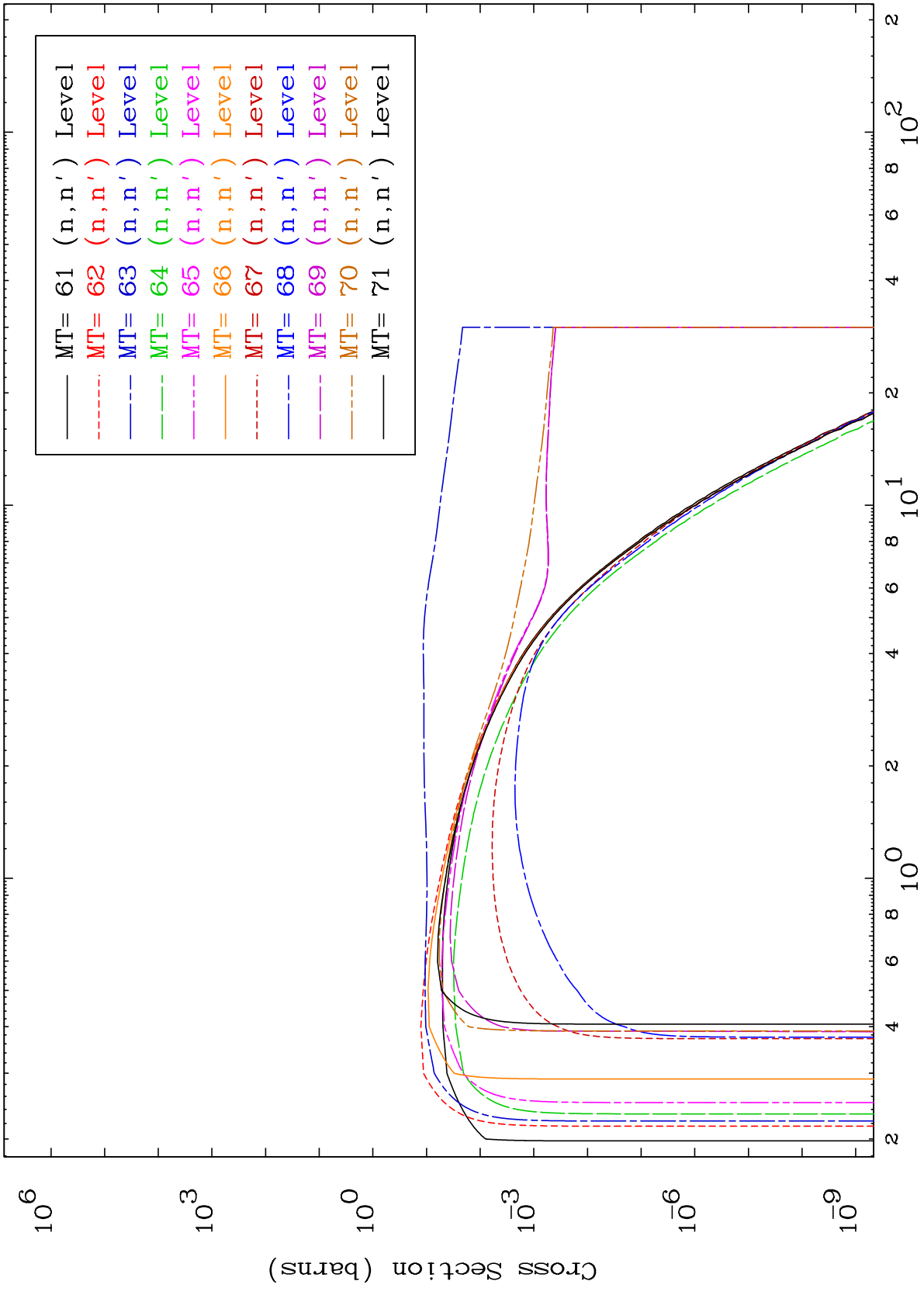
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MAT 5134

(n,n') Level

51-Sb-124

293 Kelvin Cross Sections



8

Incident Energy (MeV)

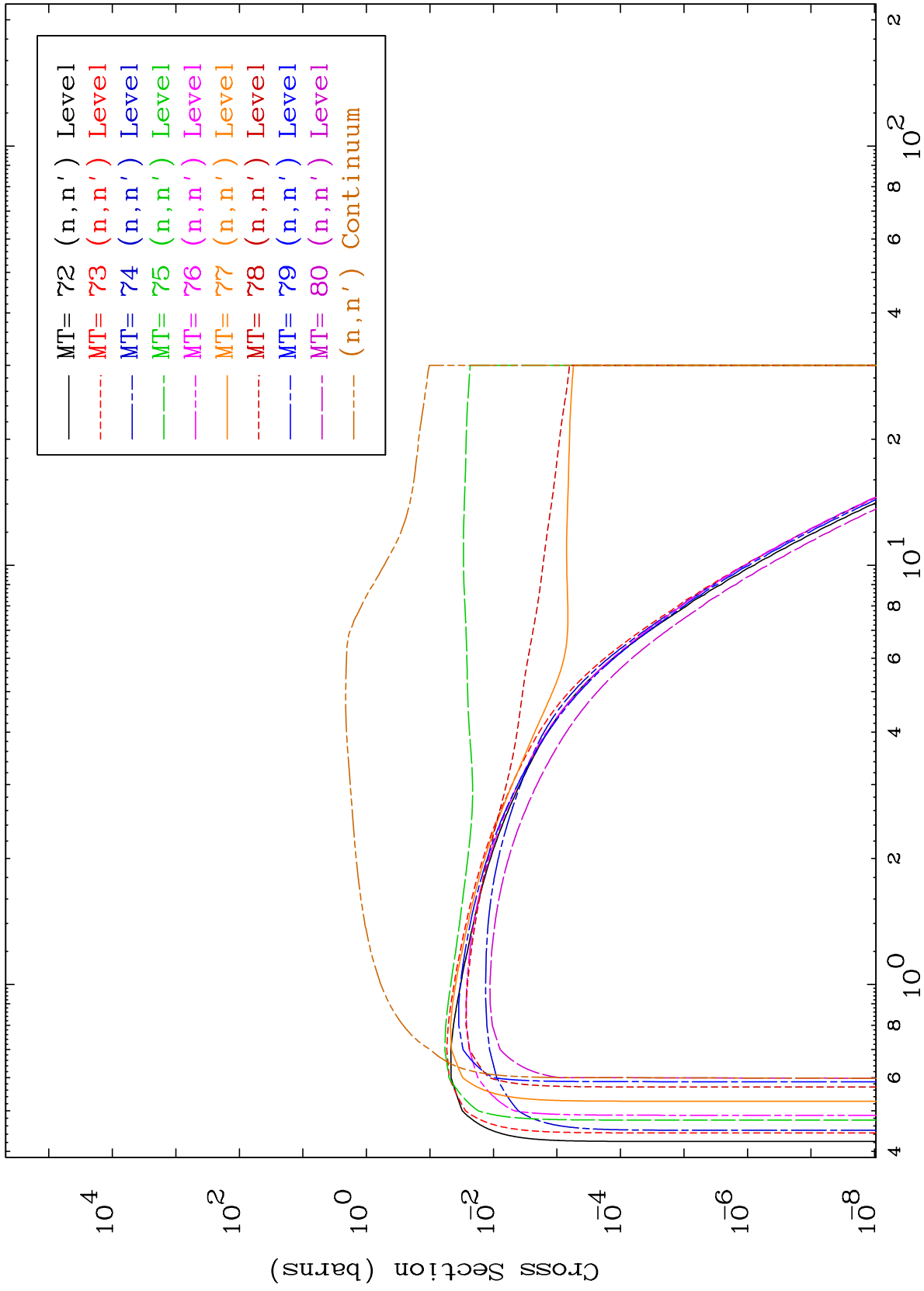
51-Sb-124

MAT 5134

(n,n') Level

51-Sb-124

293 Kelvin Cross Sections



9

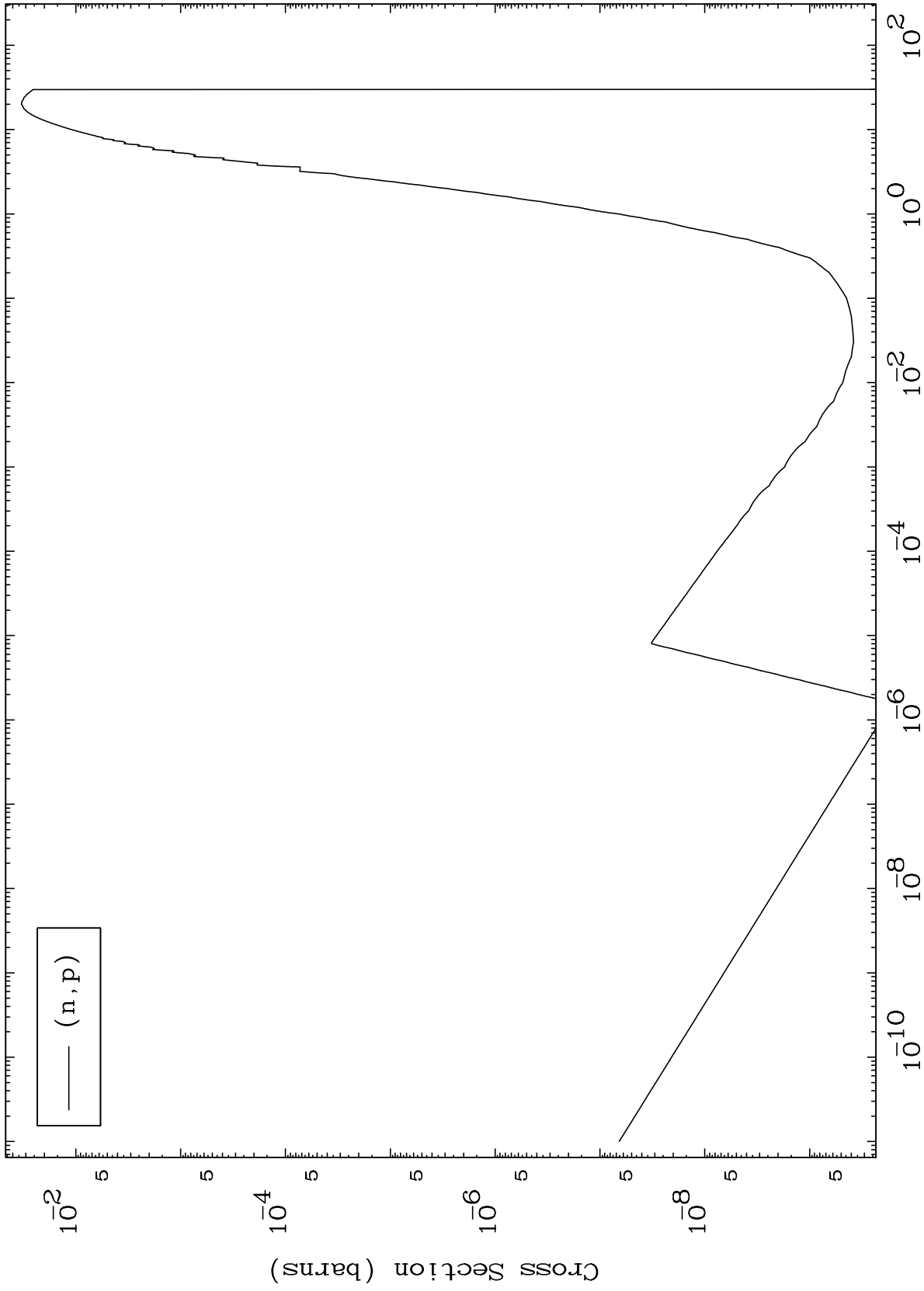
Incident Energy (MeV)

51-Sb-124

MAT 5134

(n,p) Levels  
293 Kelvin Cross Sections

51-Sb-124



10

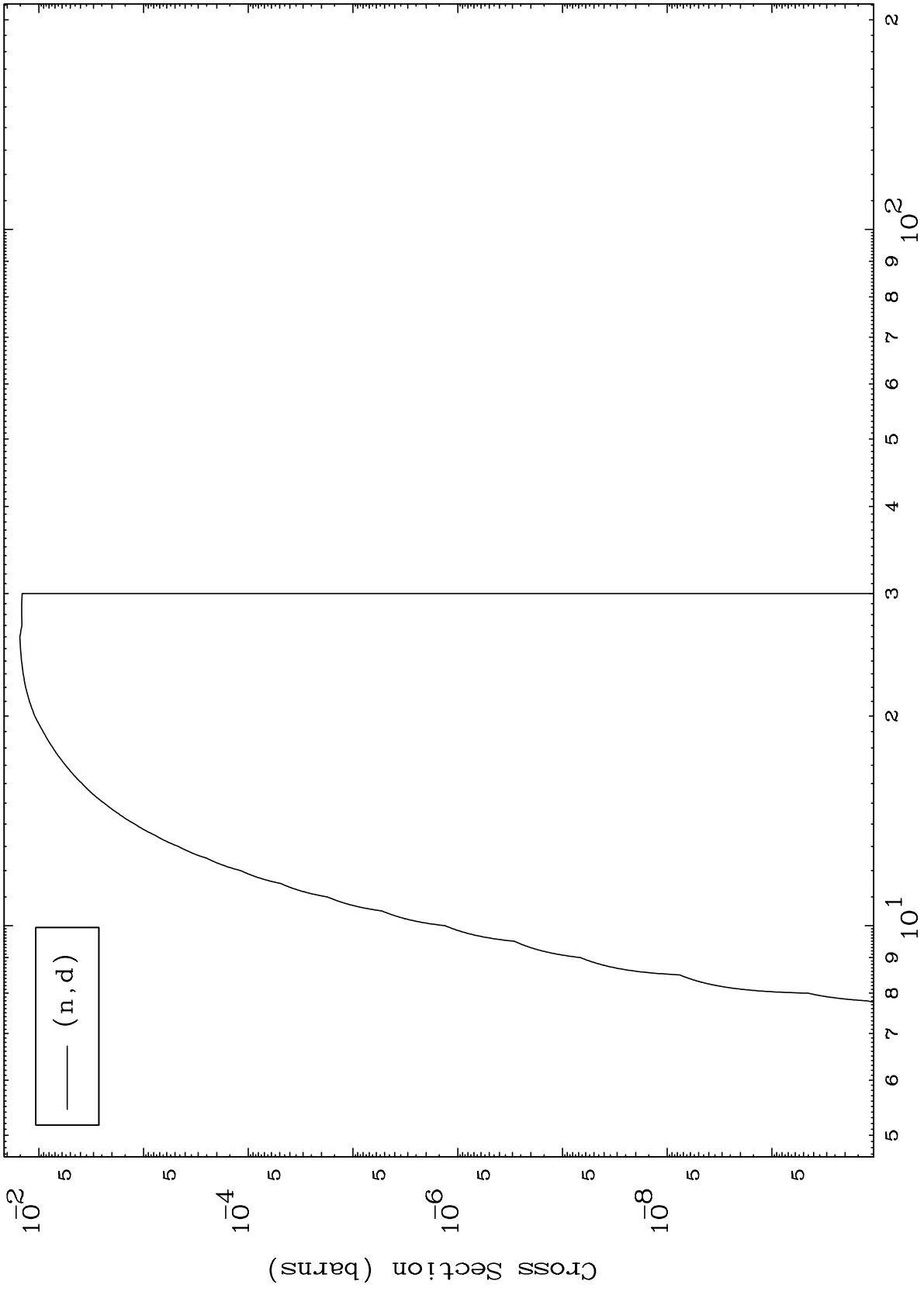
Incident Energy (MeV)

51-Sb-124

MAT 5134

(n,d) Levels  
293 Kelvin Cross Sections

51-Sb-124



11

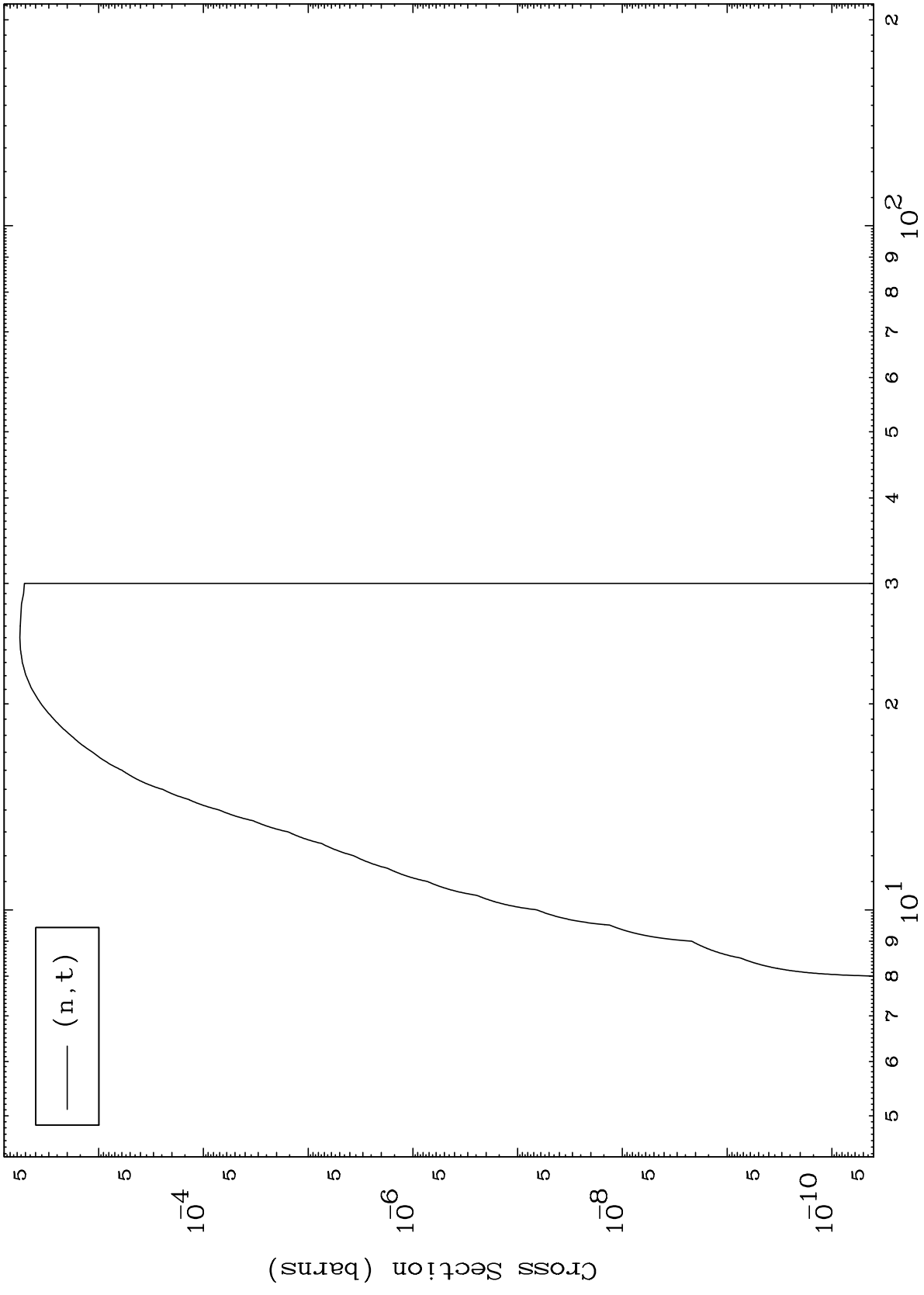
Incident Energy (MeV)

51-Sb-124

MAT 5134

(n,t) Levels  
293 Kelvin Cross Sections

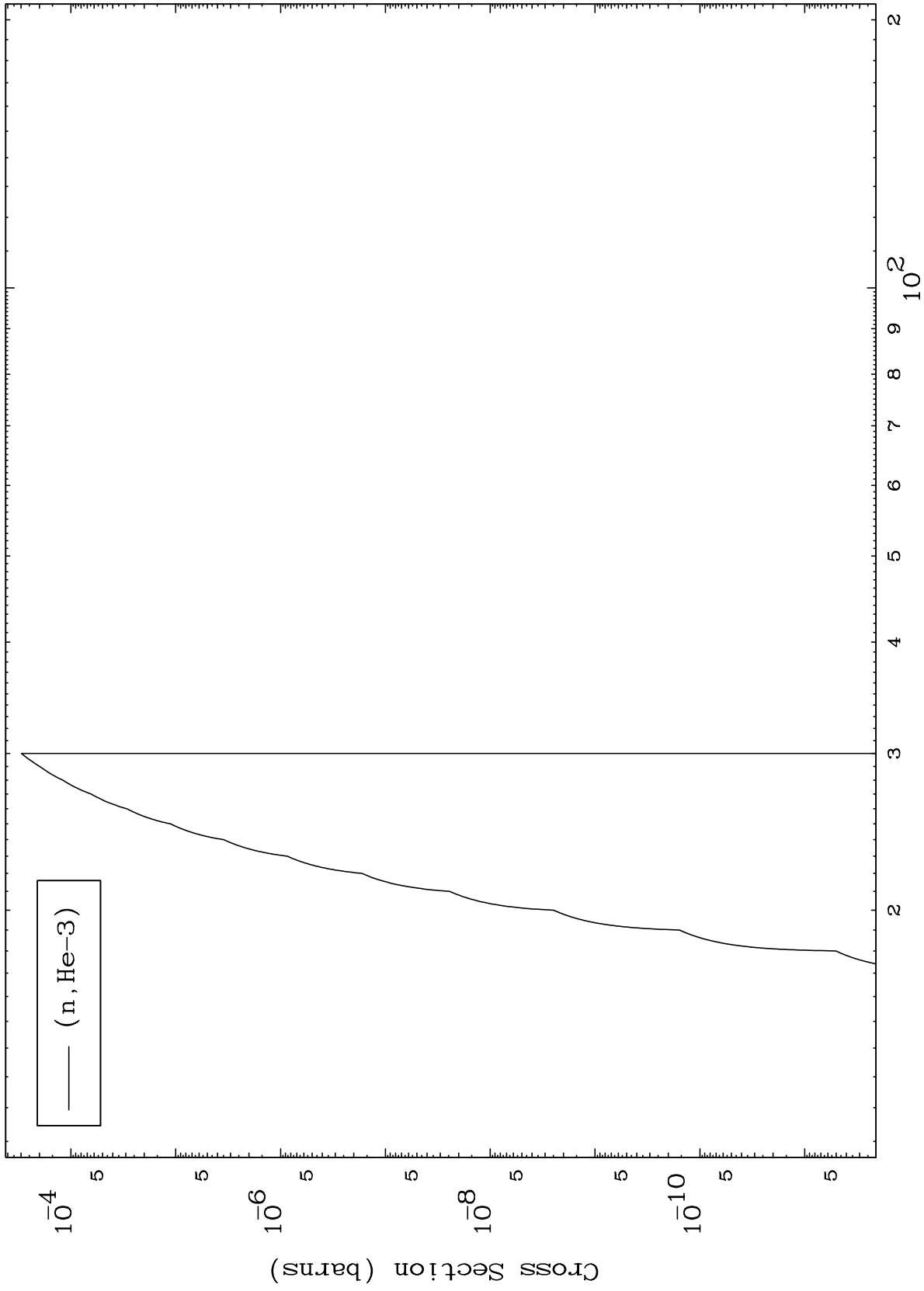
51-Sb-124



MAT 5134

(n,He3) Levels  
293 Kelvin Cross Sections

51-Sb-124



13

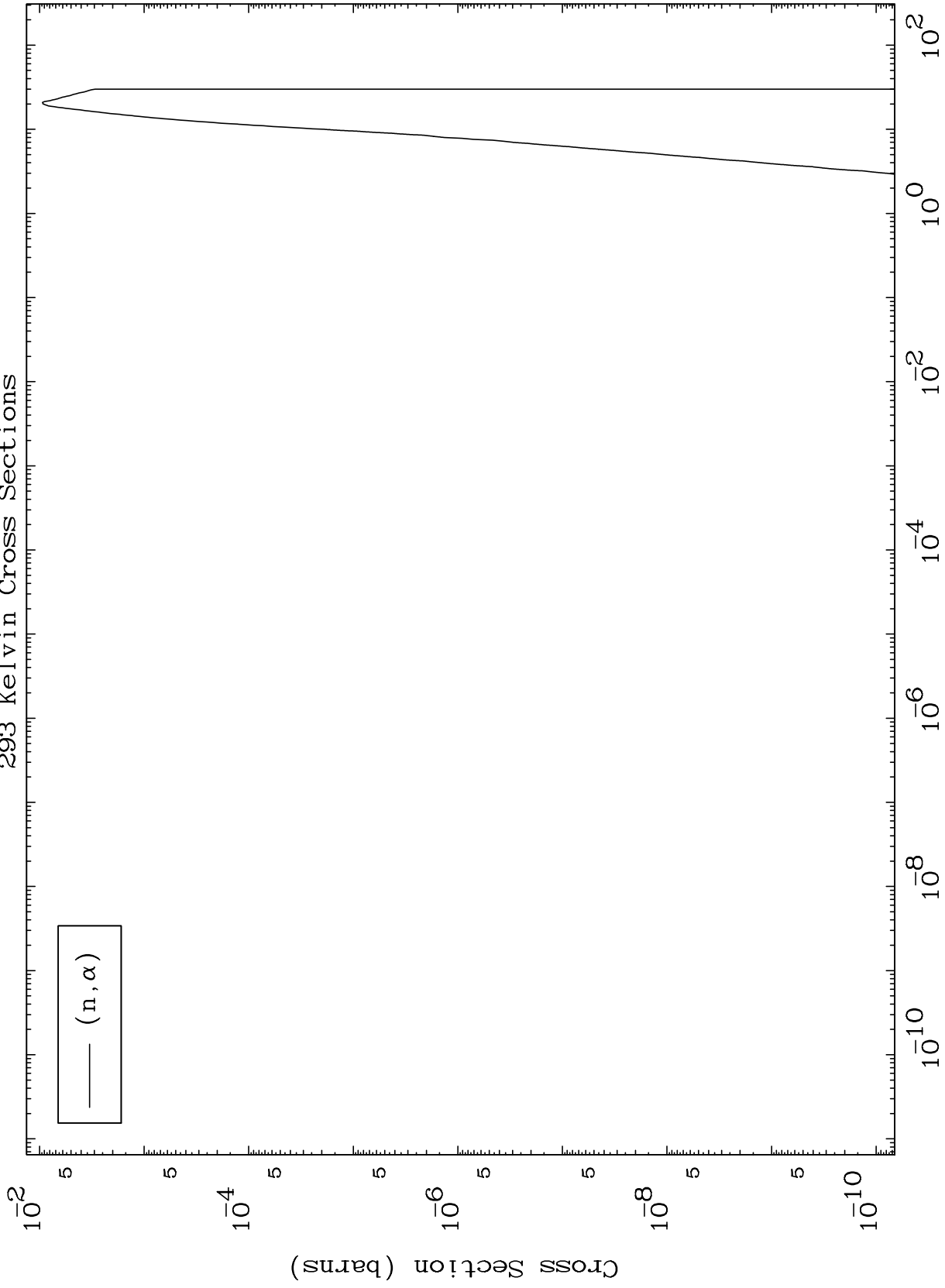
Incident Energy (MeV)

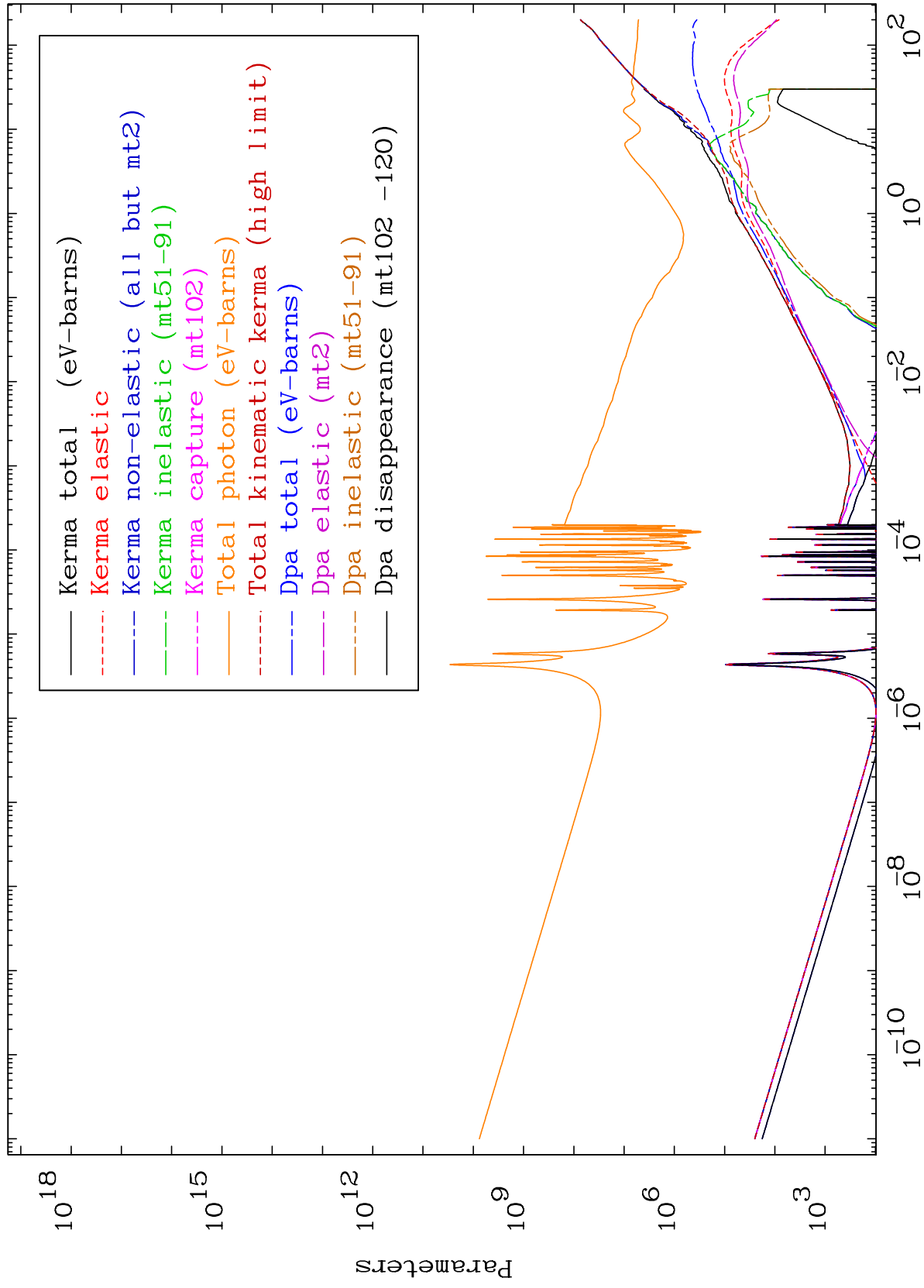
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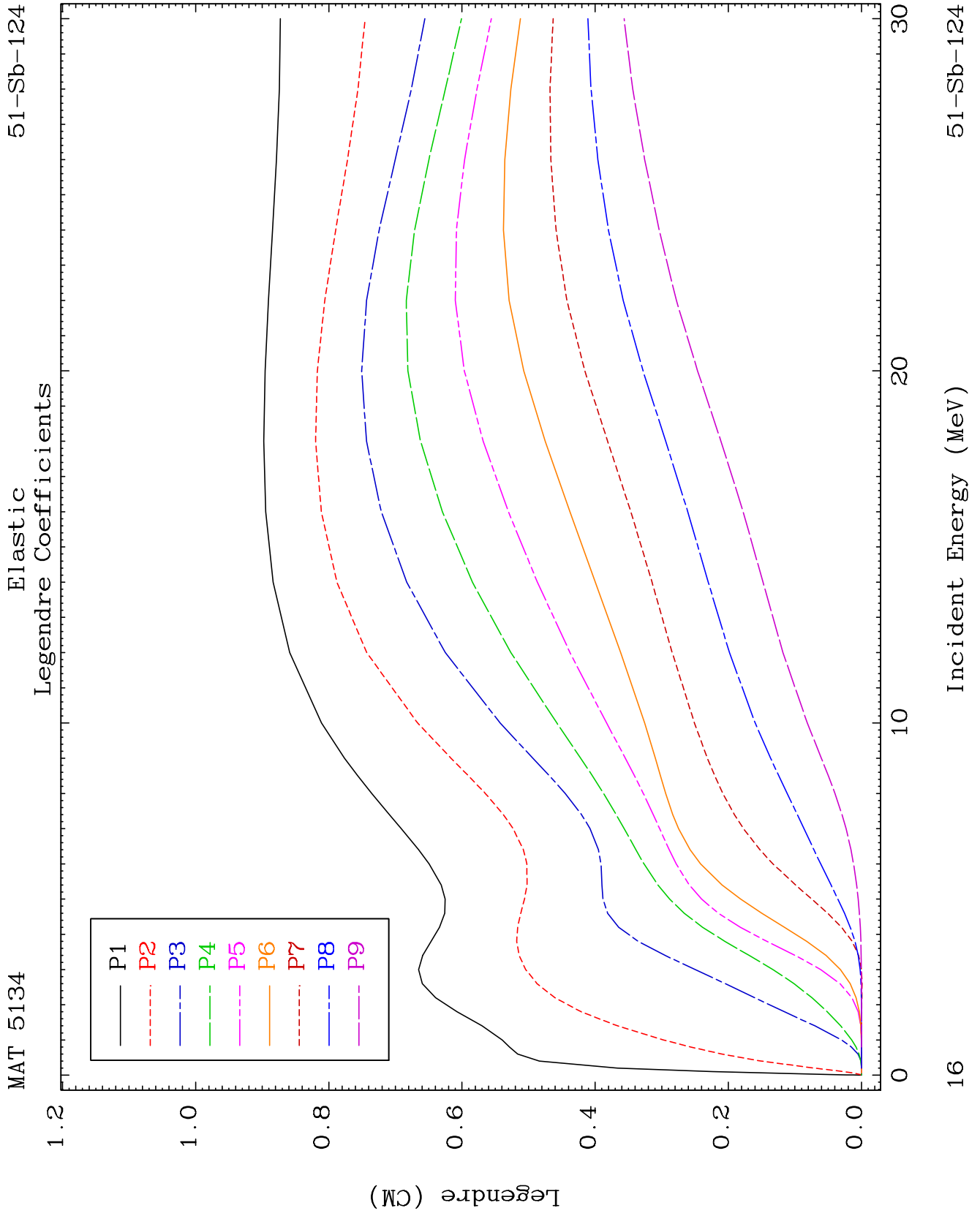
MAT 5134

(n,α) Levels  
293 Kelvin Cross Sections

51-Sb-124



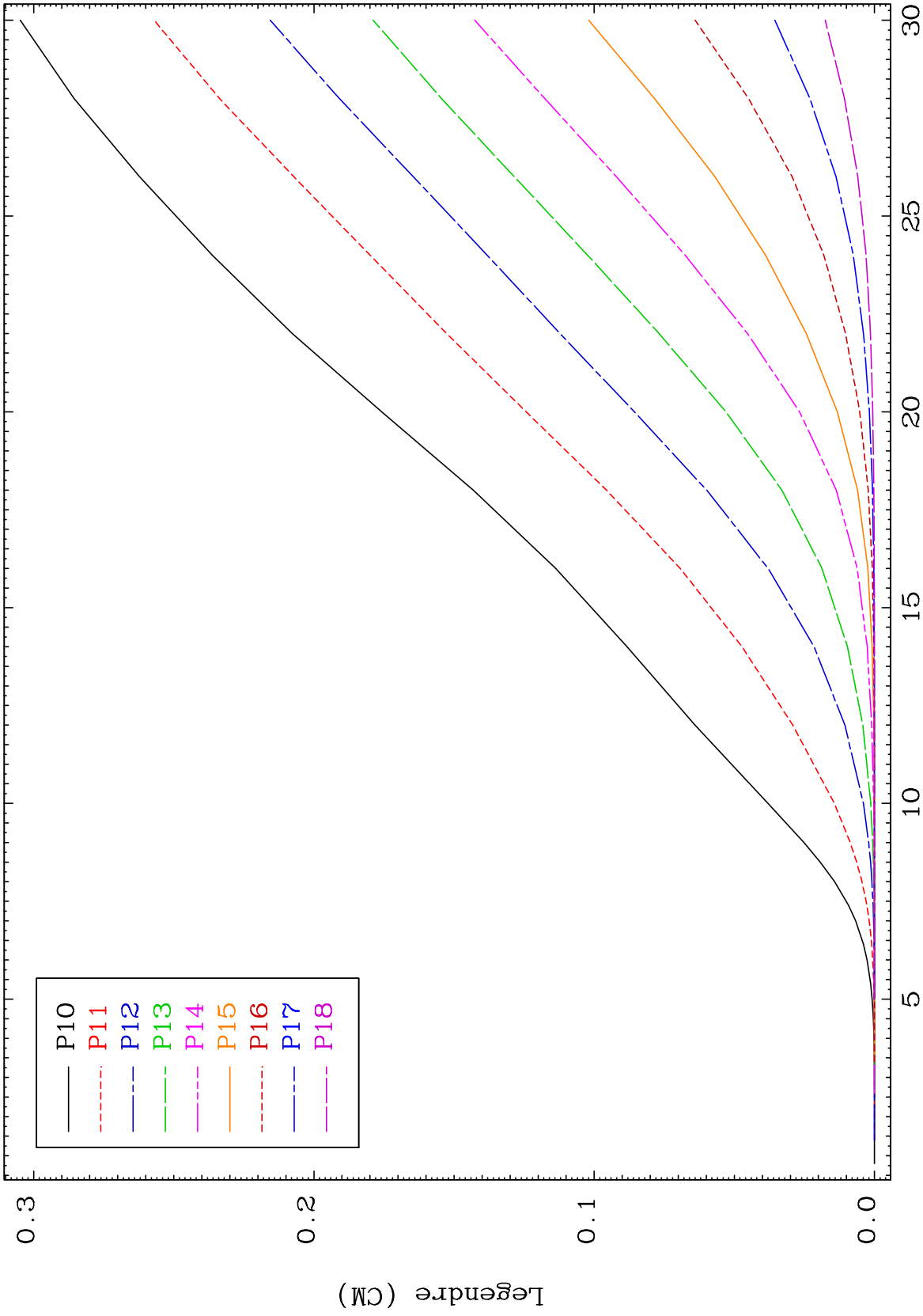




MAT 5134

Elastic Legendre Coefficients

51-Sb-124



17

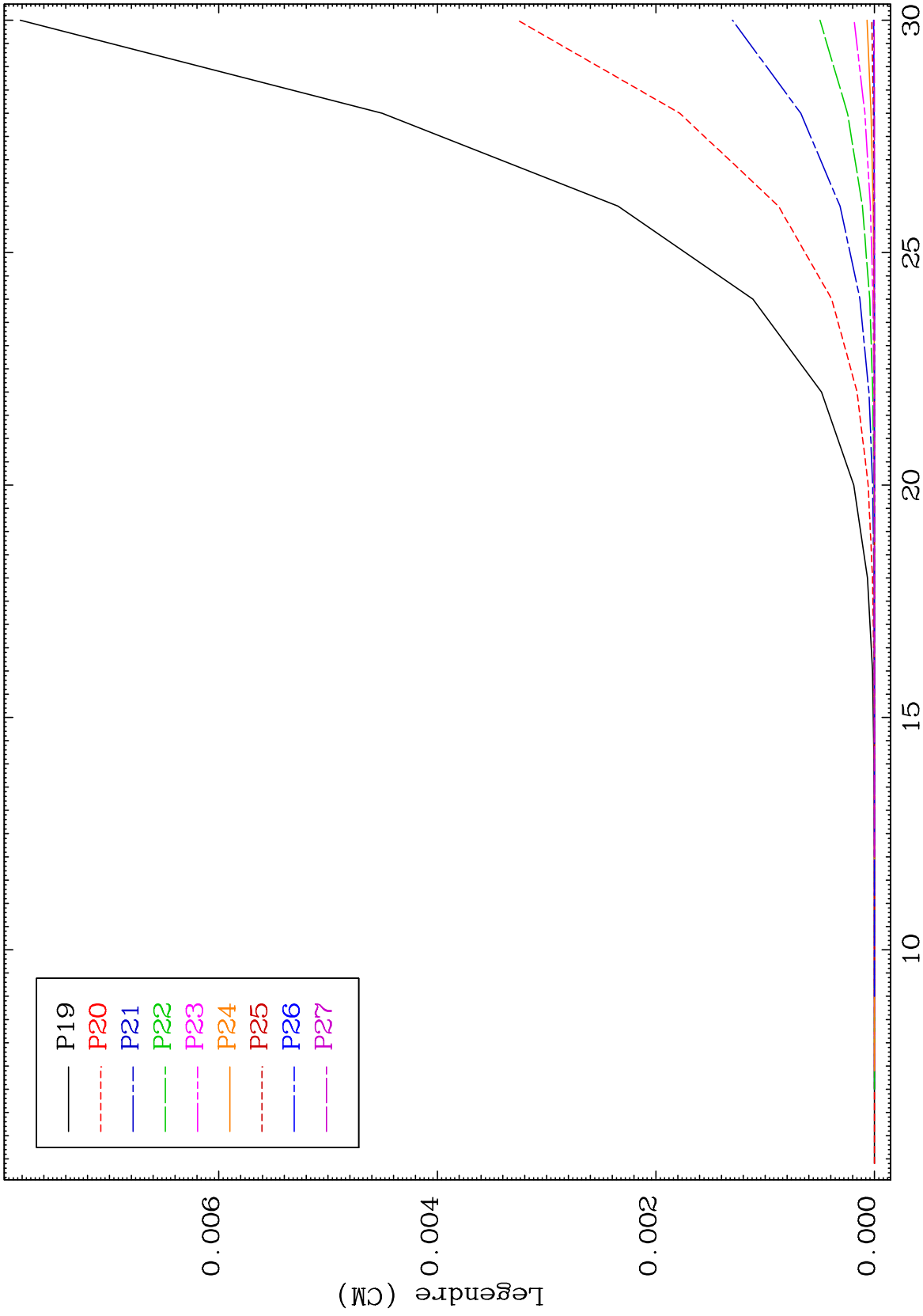
Incident Energy (MeV)

51-Sb-124

MAT 5134

### Elastic Legendre Coefficients

51-Sb-124



18

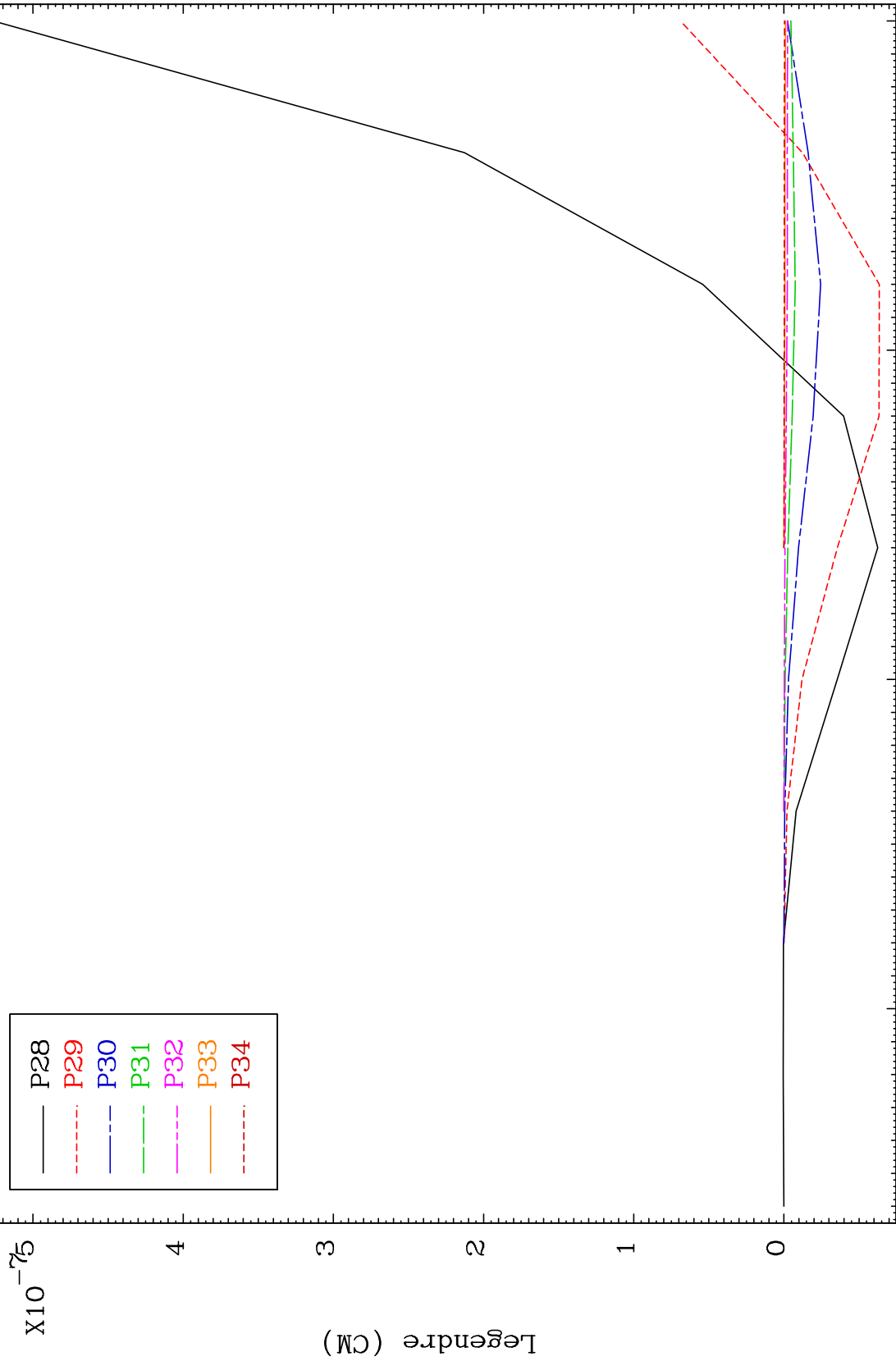
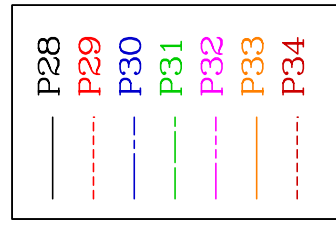
Incident Energy (MeV)

51-Sb-124

MAT 5134

Elastic Legendre Coefficients

51-Sb-124



19

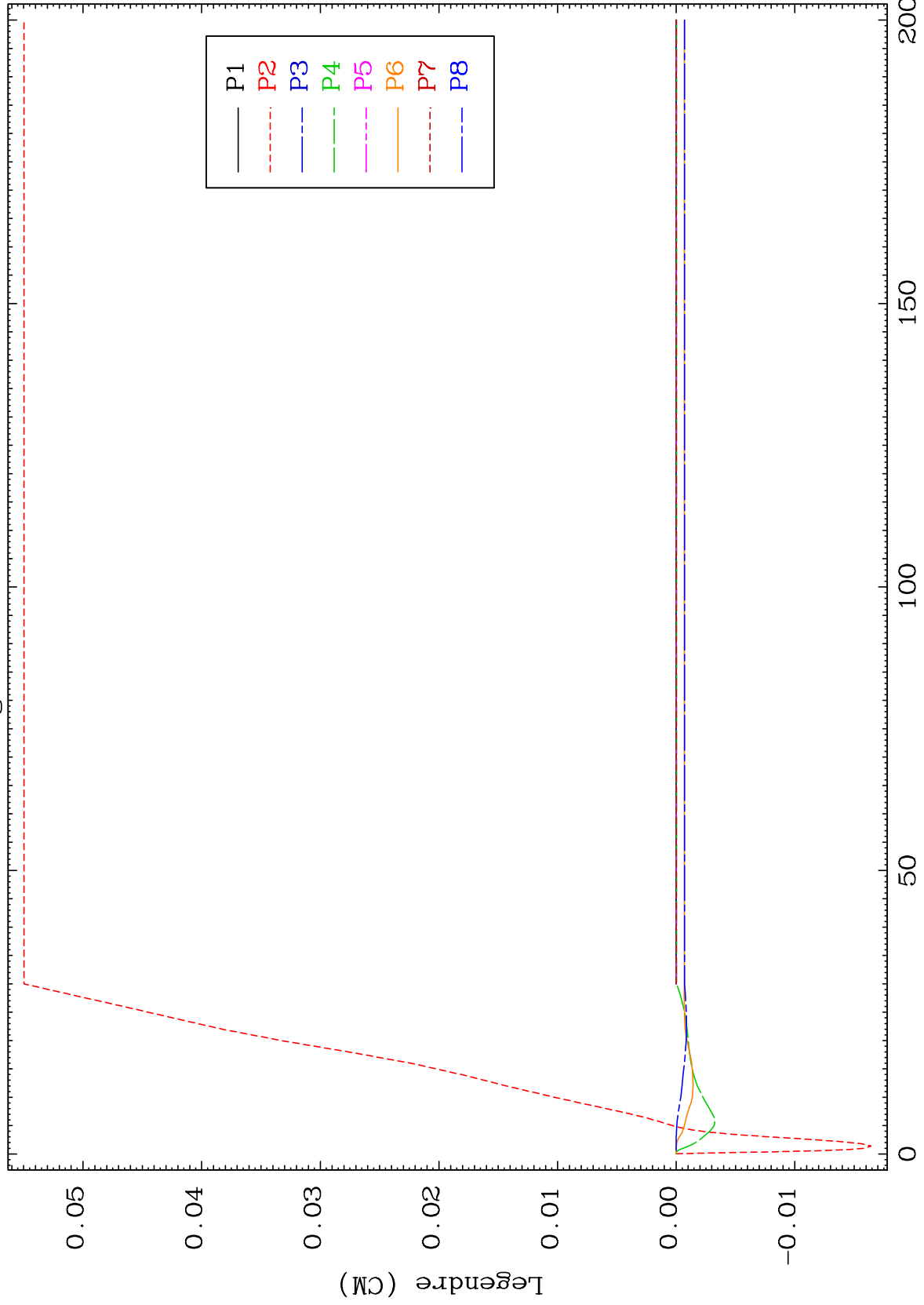
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

51-Sb-124



51-Sb-124

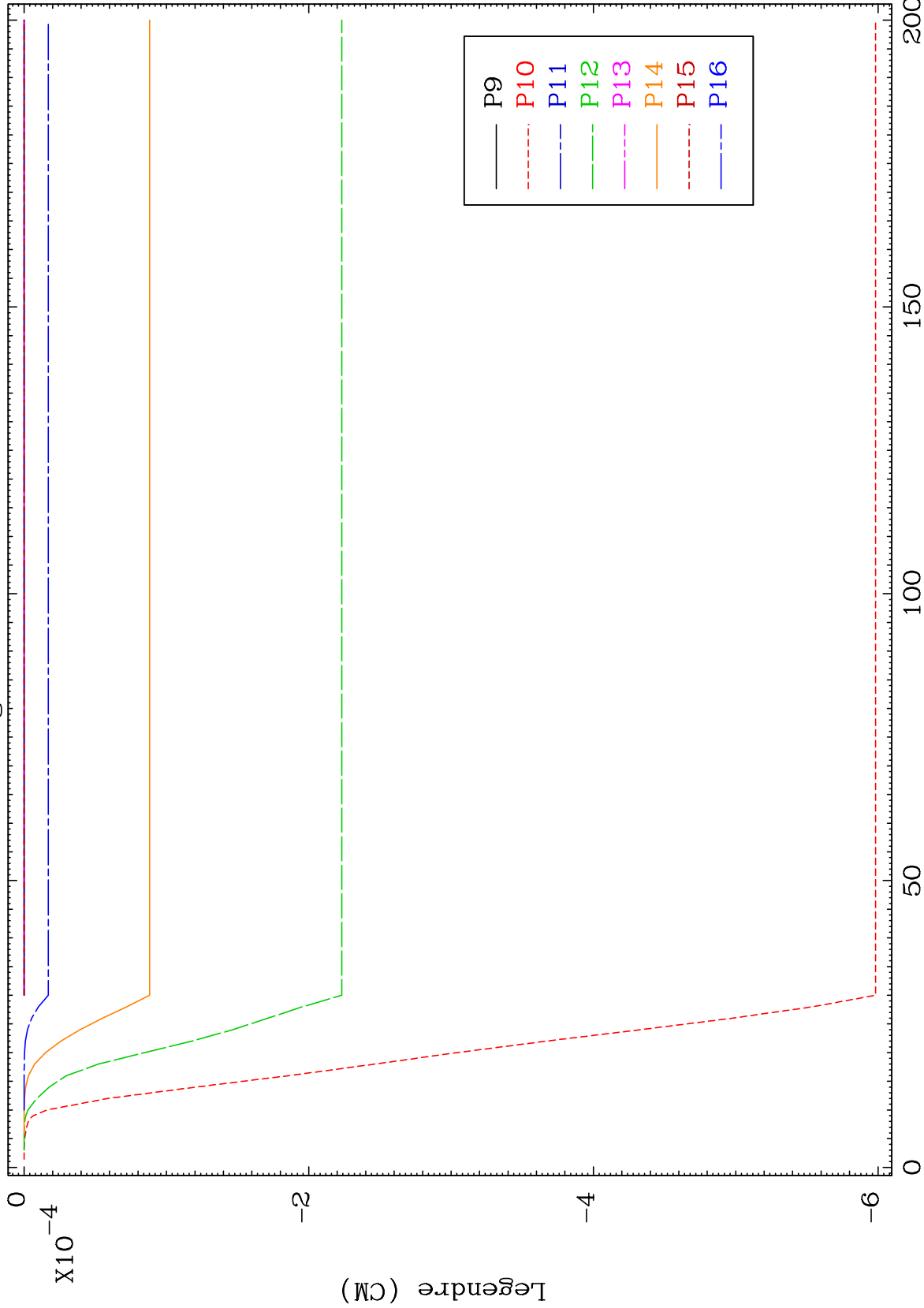
Incident Energy (MeV)

20

MAT 5134

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

51-Sb-124



21

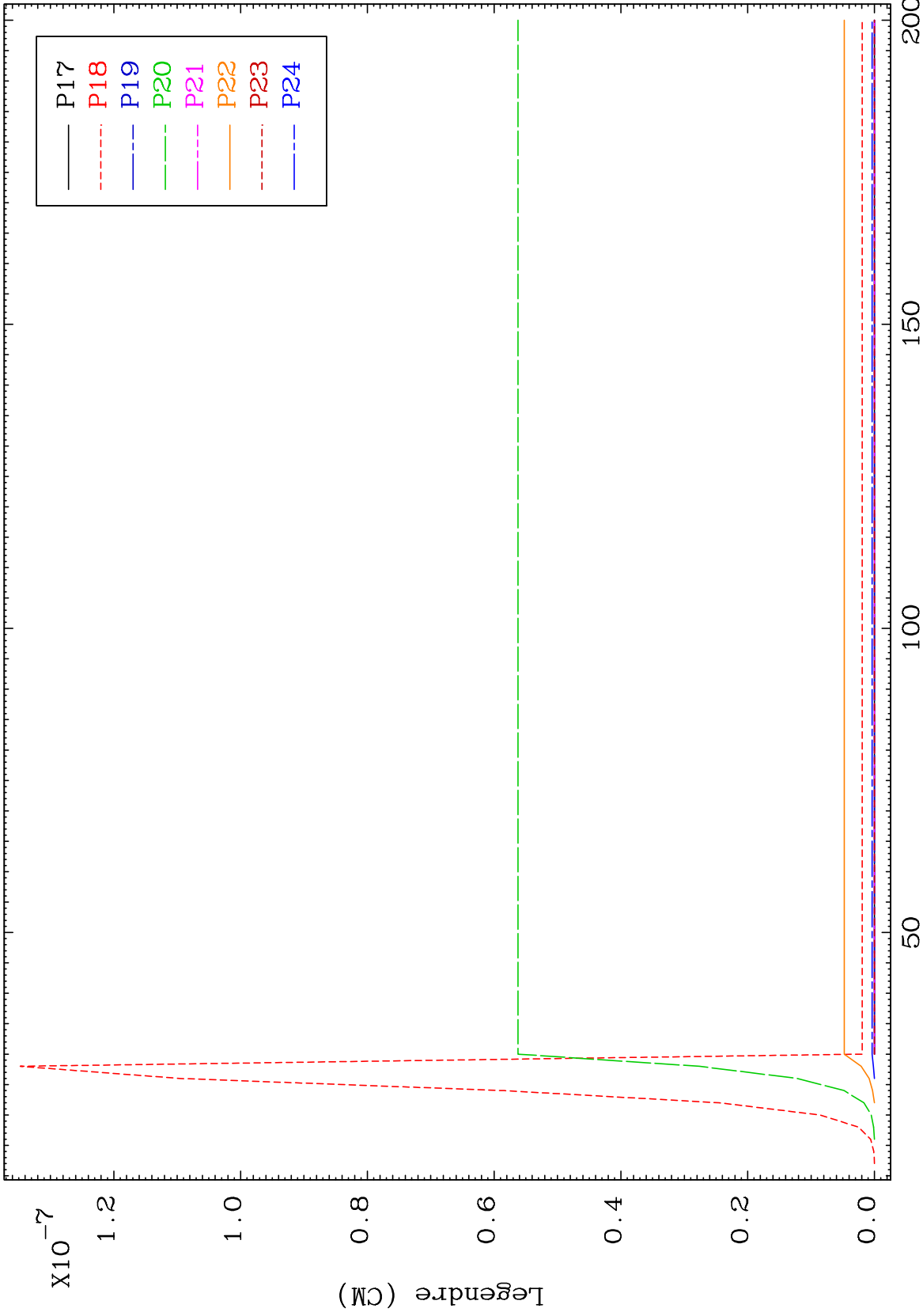
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

51-Sb-124



22

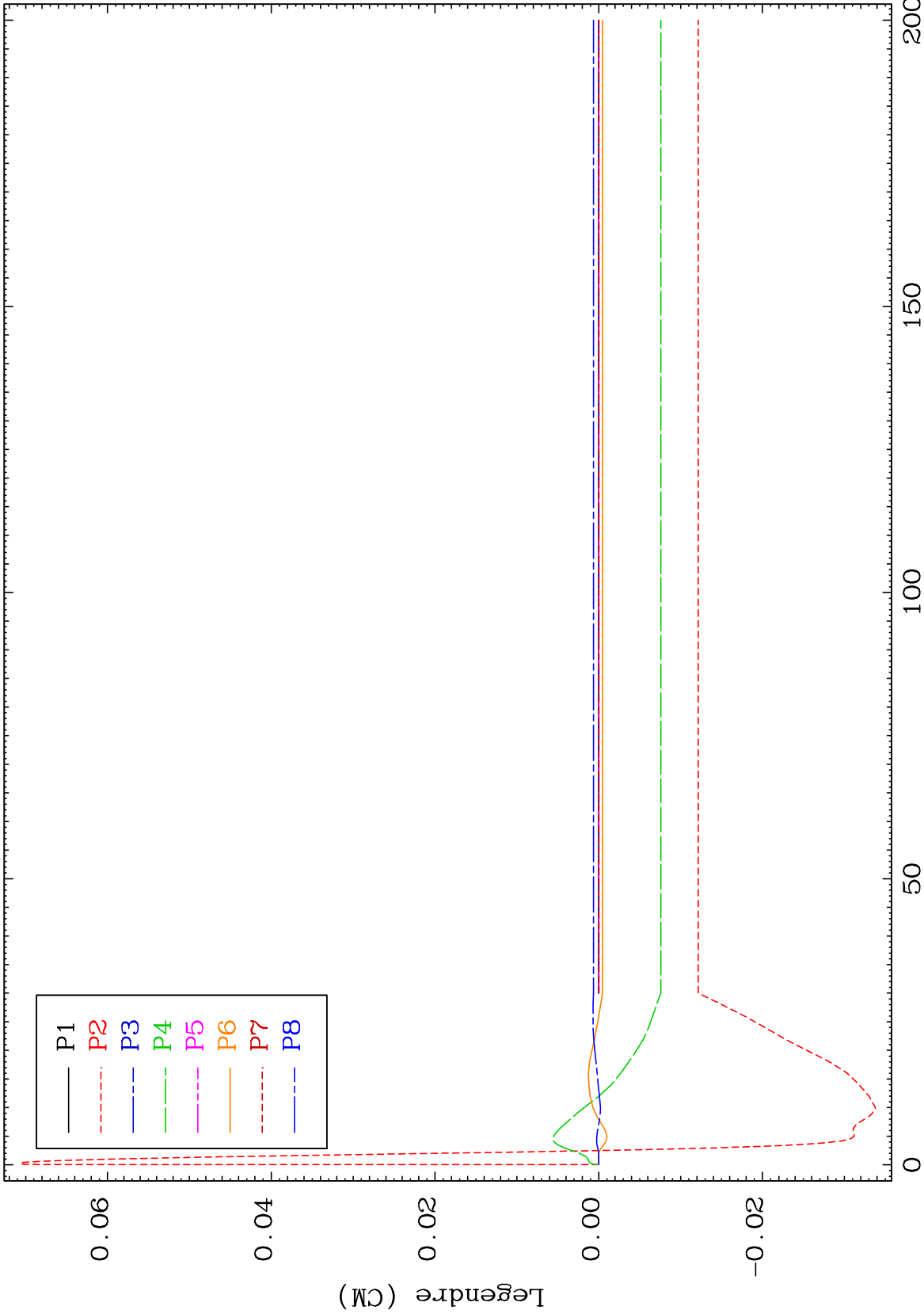
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

51-Sb-124



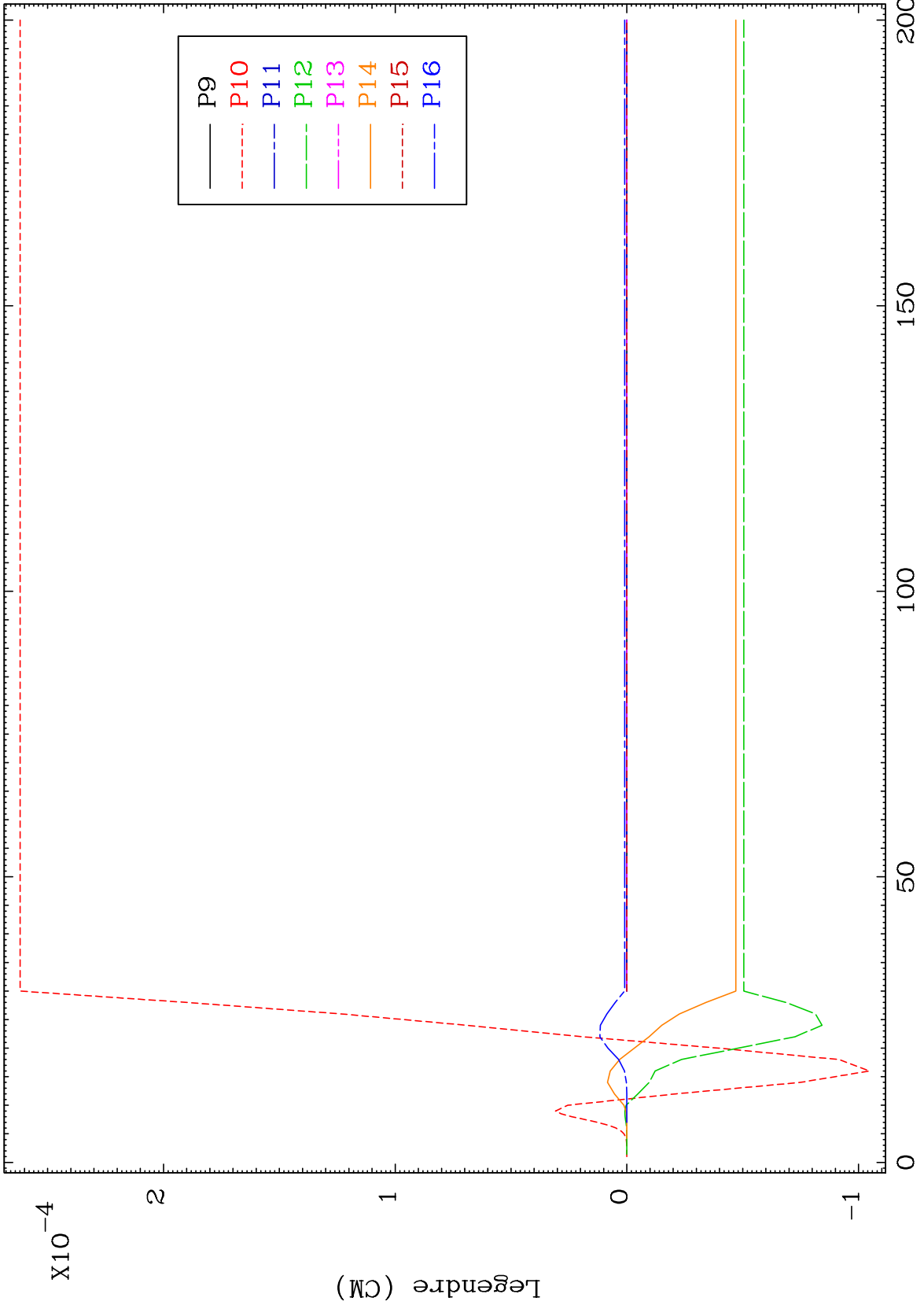
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51-Sb-124

MAT 5134

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

51-Sb-124



24

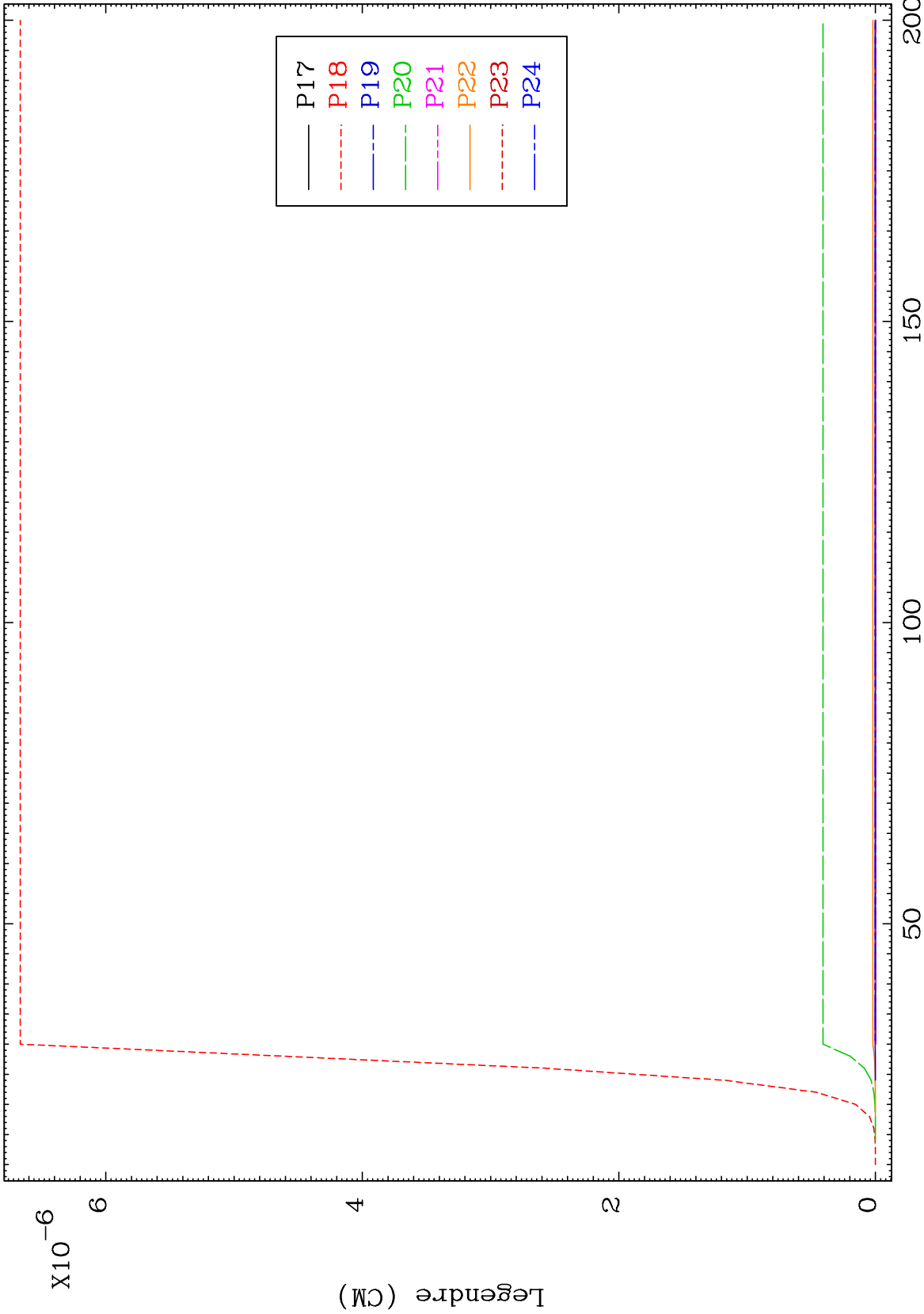
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

51-Sb-124



25

50

100

150

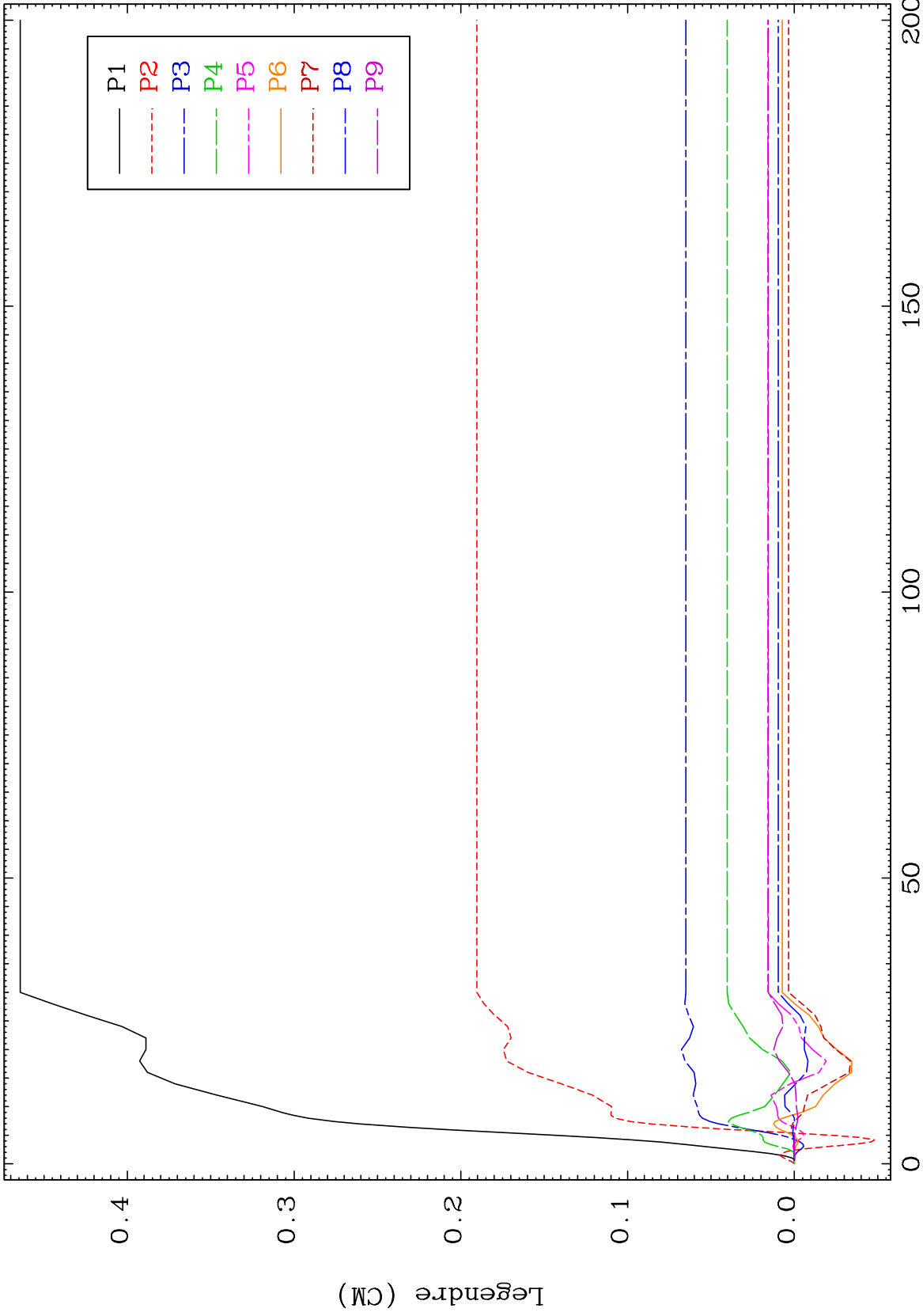
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51-Sb-124

MAT 5134

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

51-Sb-124



26

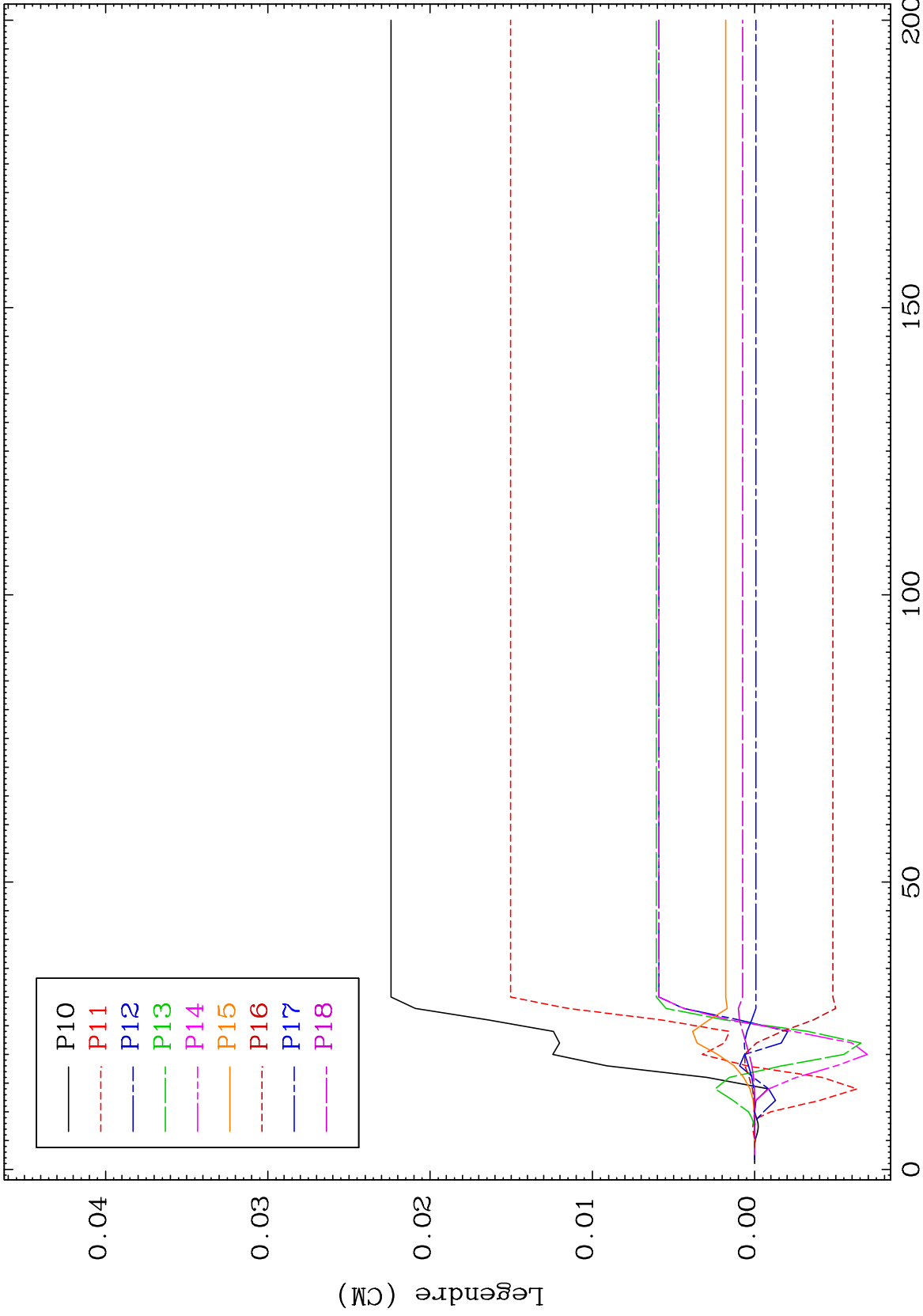
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

51-Sb-124



27

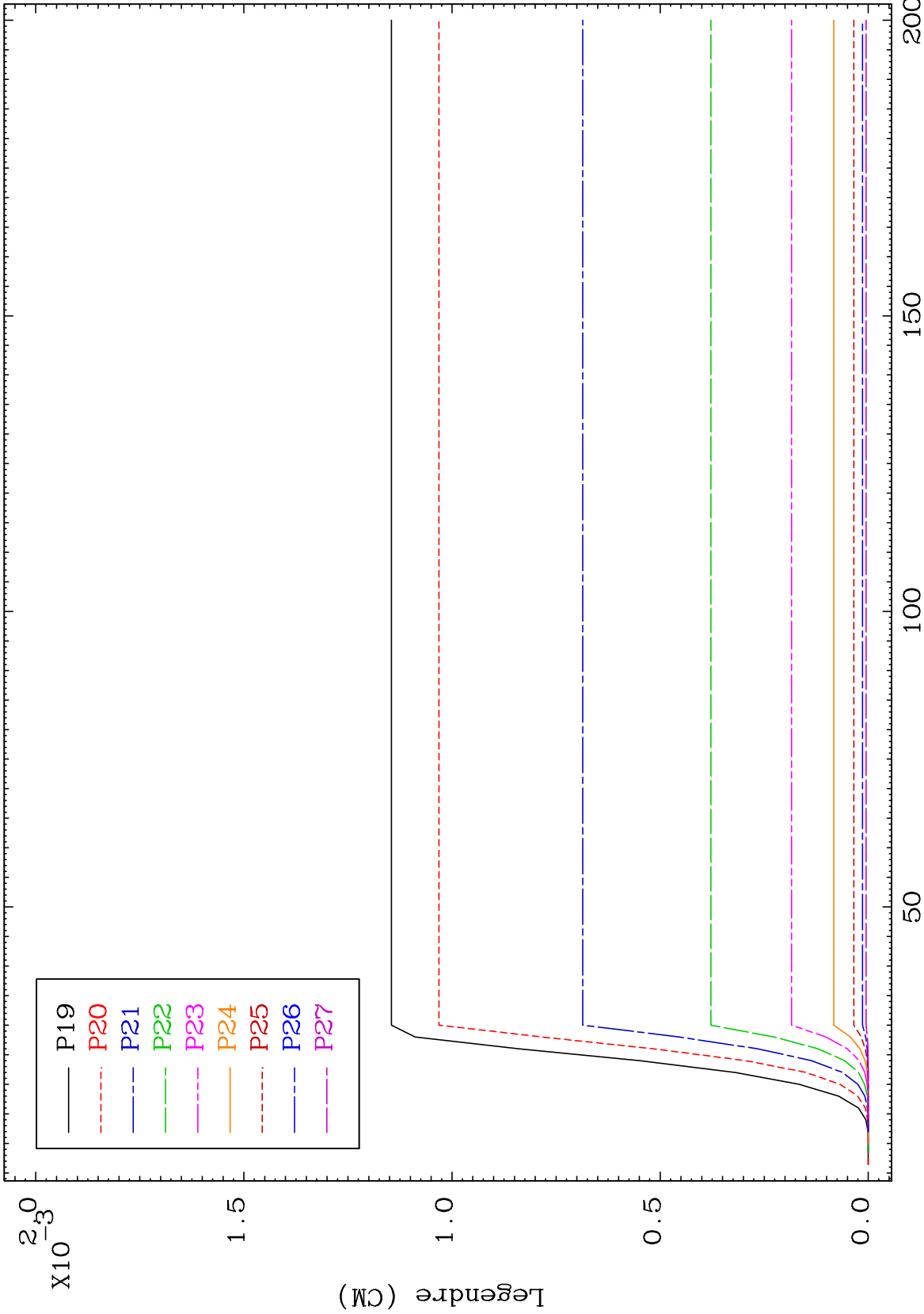
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

51-Sb-124



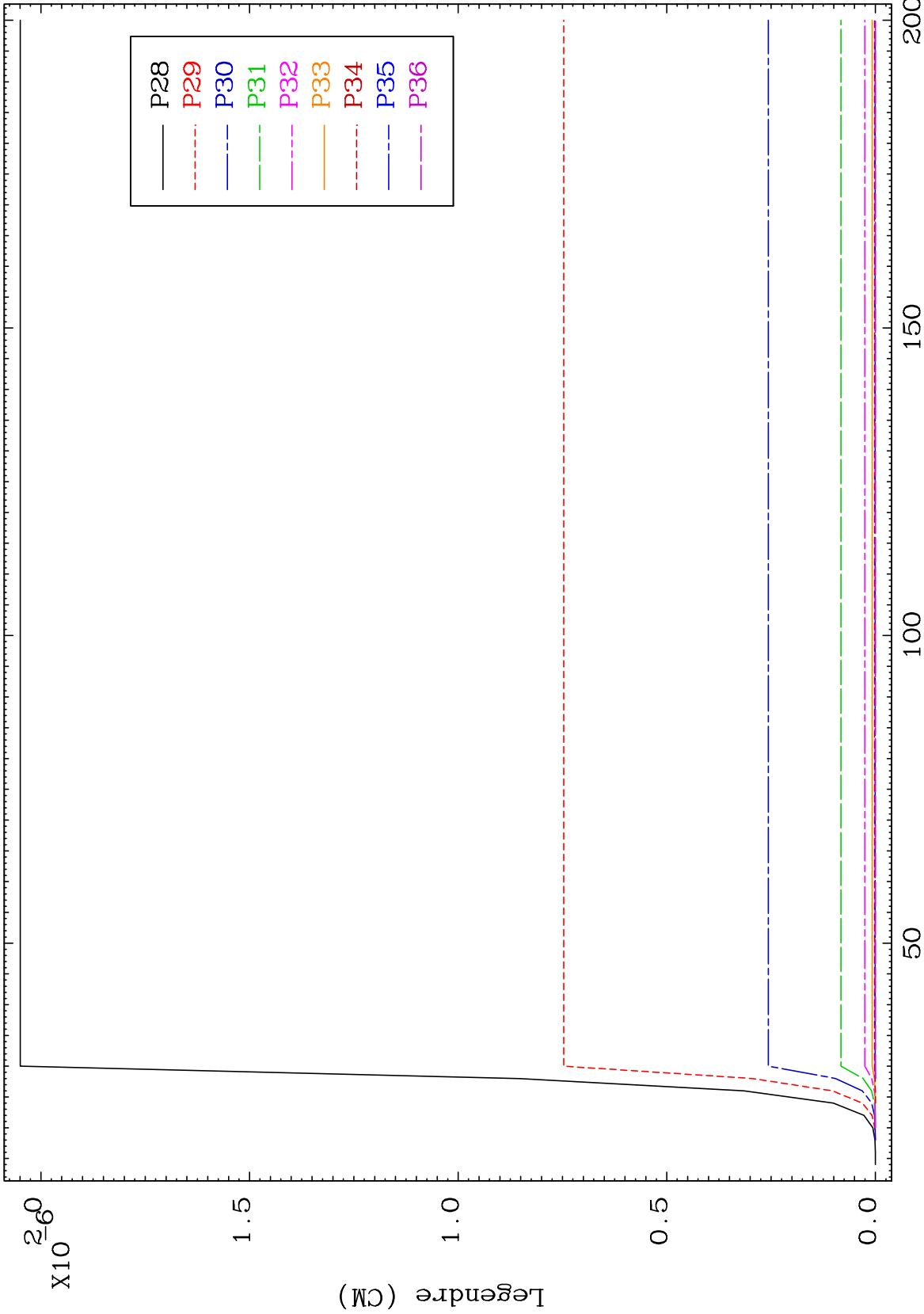
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51-Sb-124

MAT 5134

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

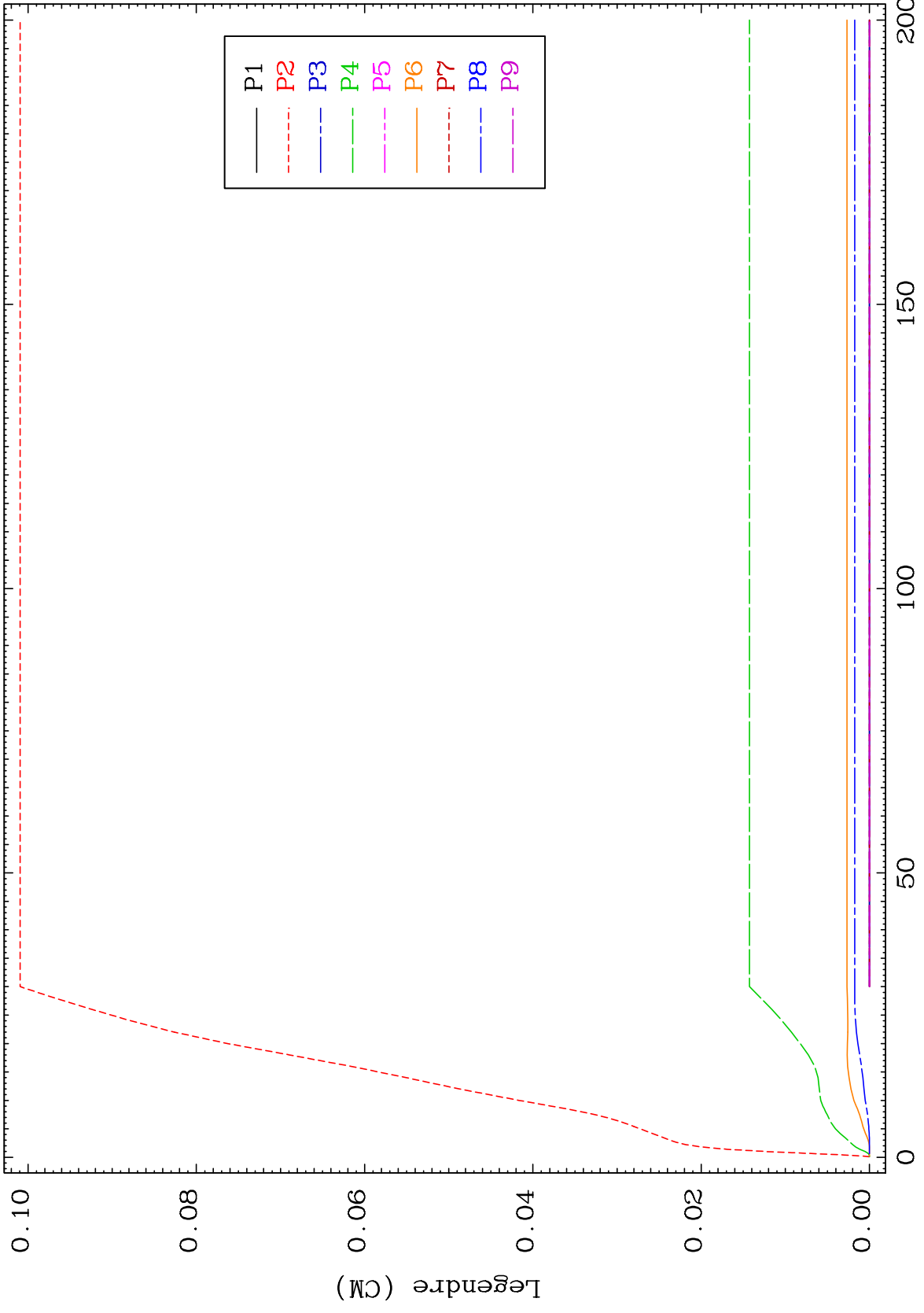
51-Sb-124



29

51-Sb-124

MAT 5134 MT= 54 (n,n') Level Legendre Coefficients 51-Sb-124

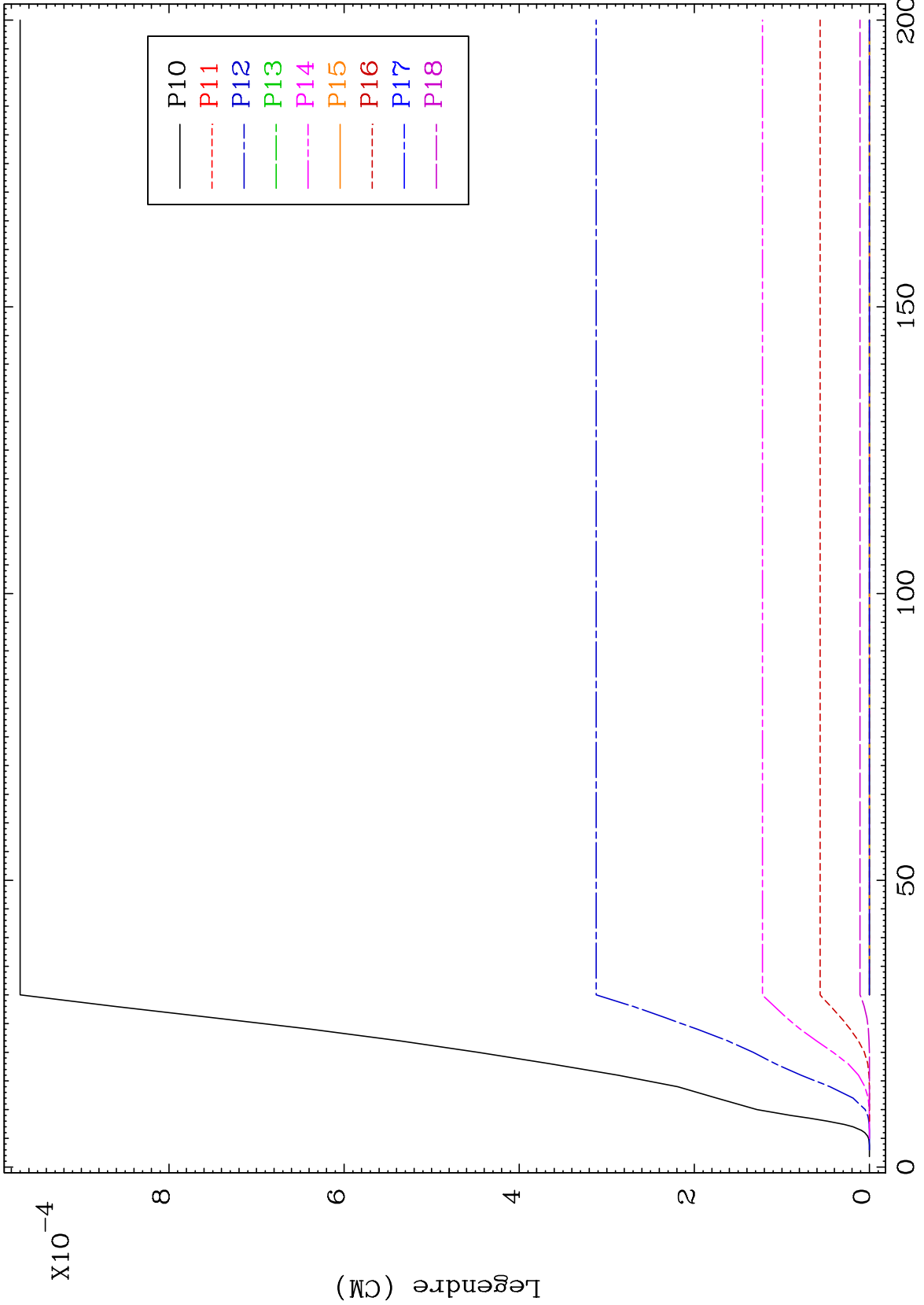


51-Sb-124

MAT 5134

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

51-Sb-124

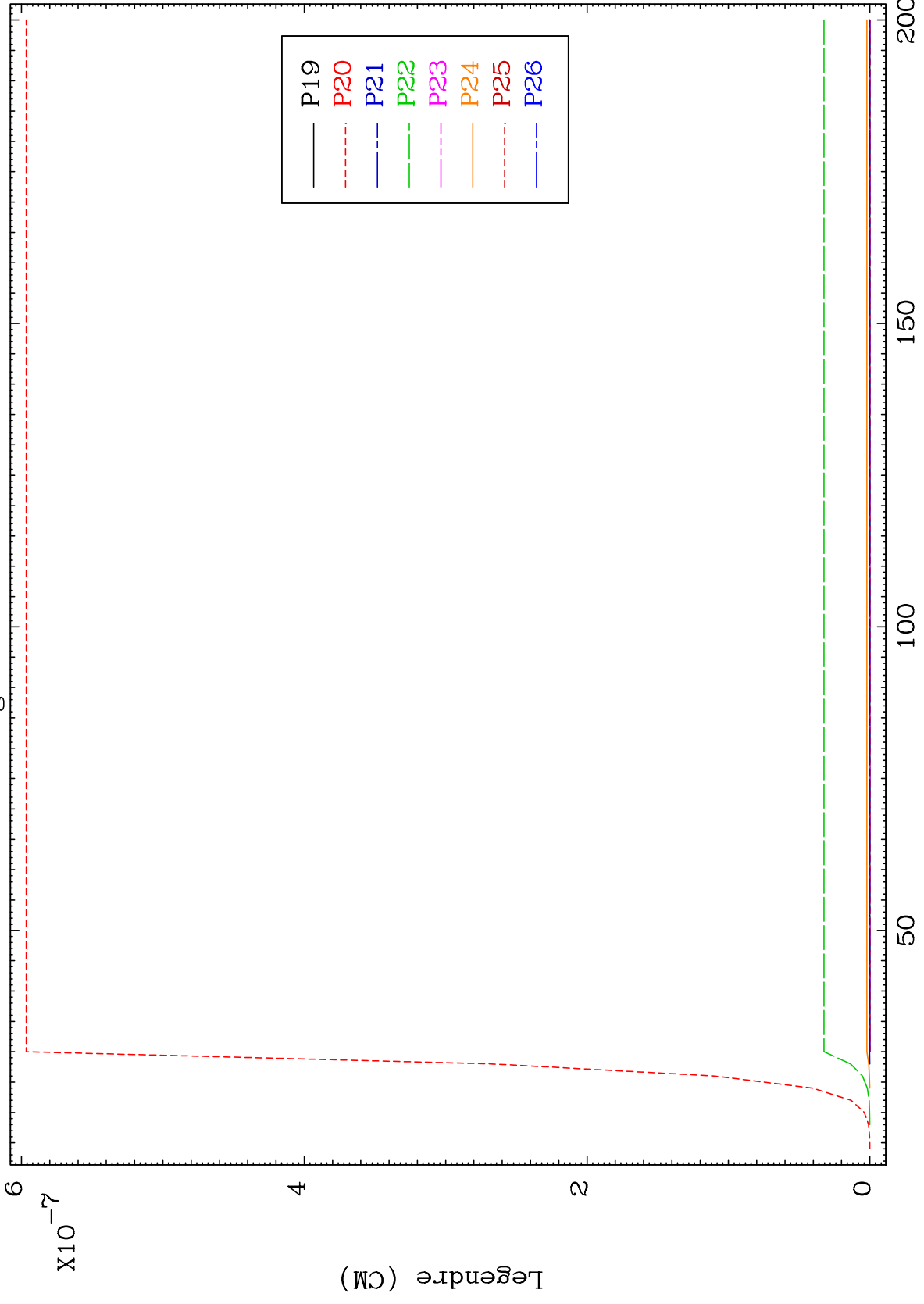


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Incident Energy (MeV)

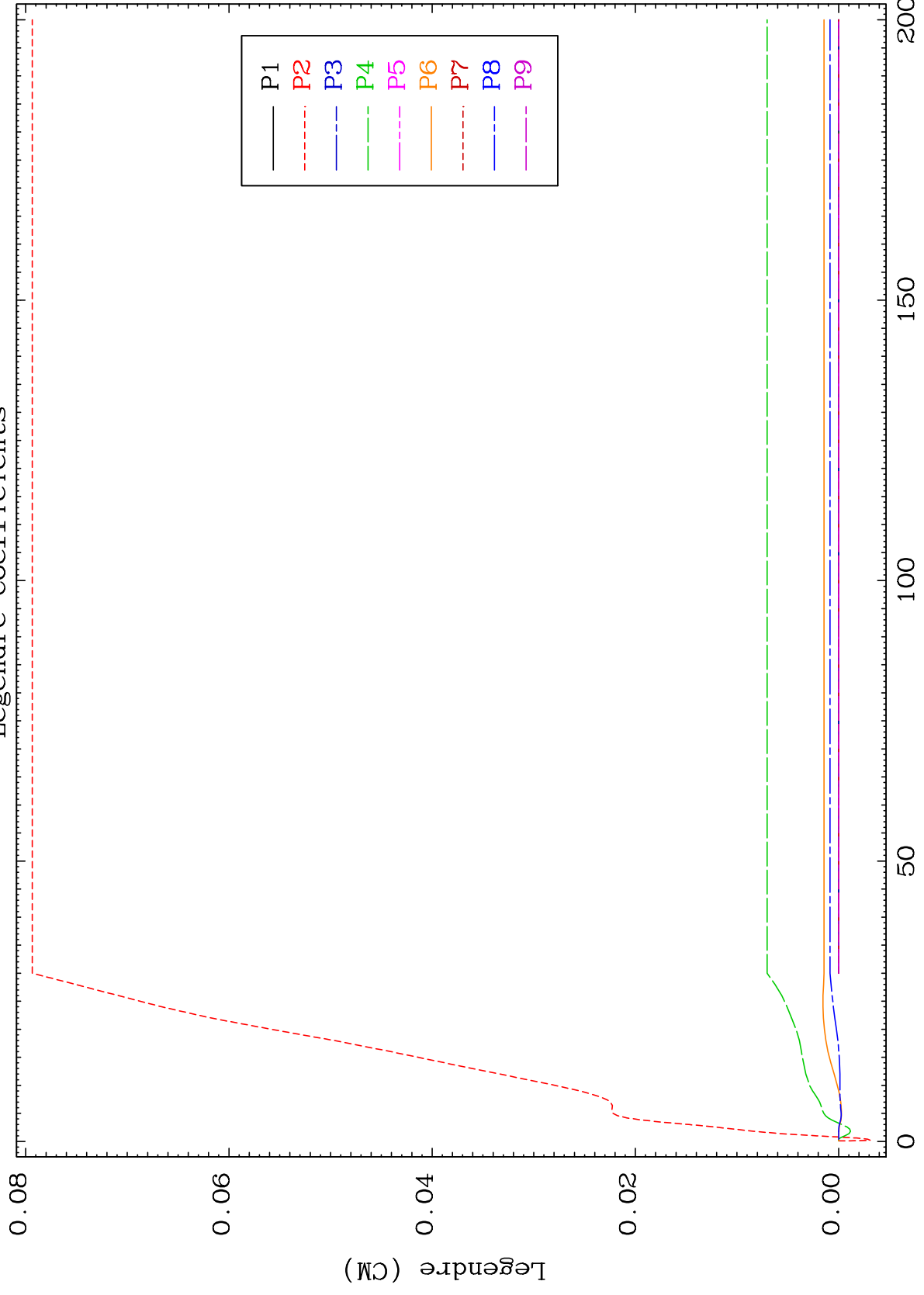
51-Sb-124

MAT 5134 MT= 54 (n,n') Level Legendre Coefficients 51-Sb-124



32 Incident Energy (MeV) 51-Sb-124

MAT 5134 MT= 55 (n,n') Level Legendre Coefficients 51-Sb-124

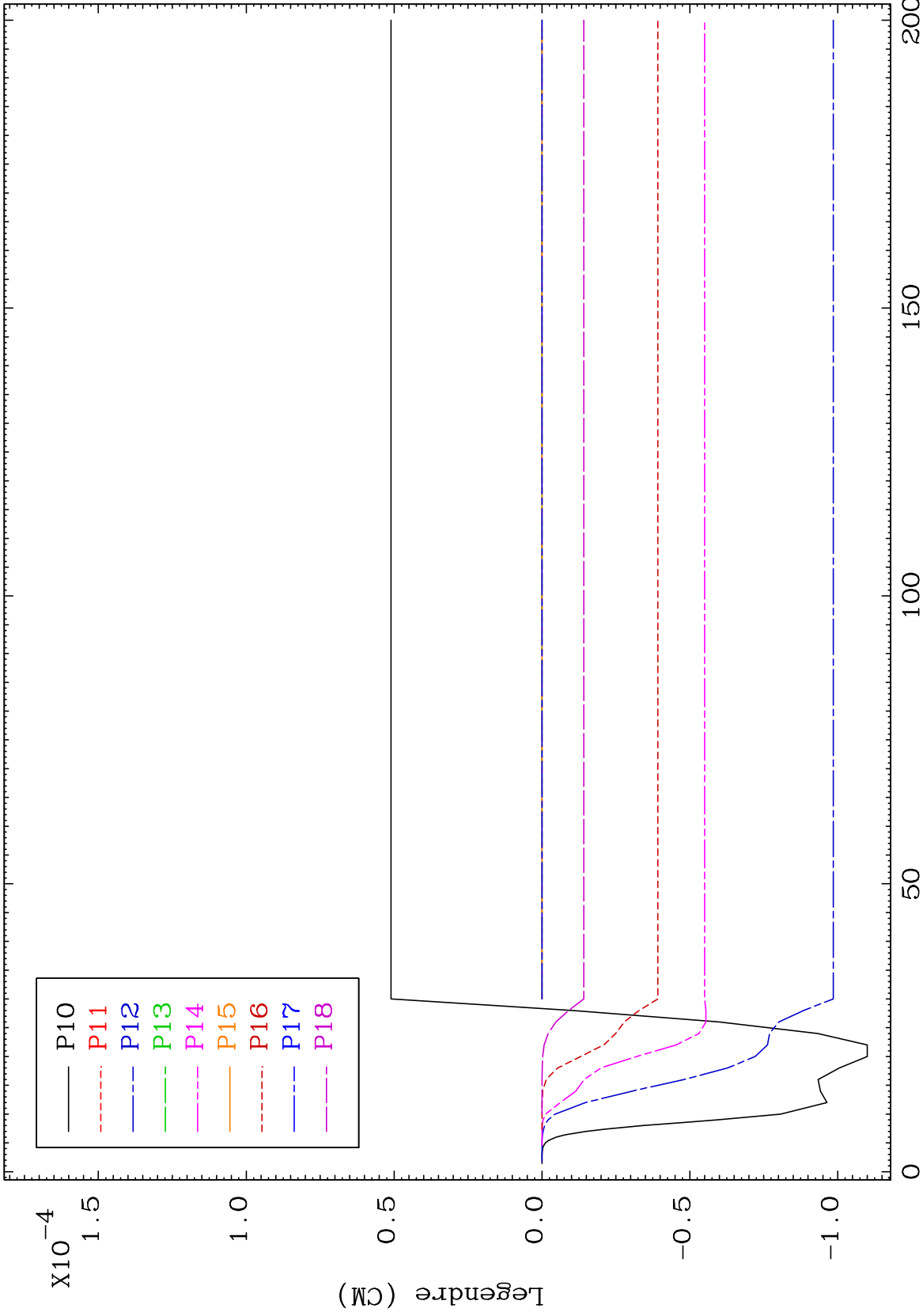


33 51-Sb-124

MAT 5134

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

51-Sb-124



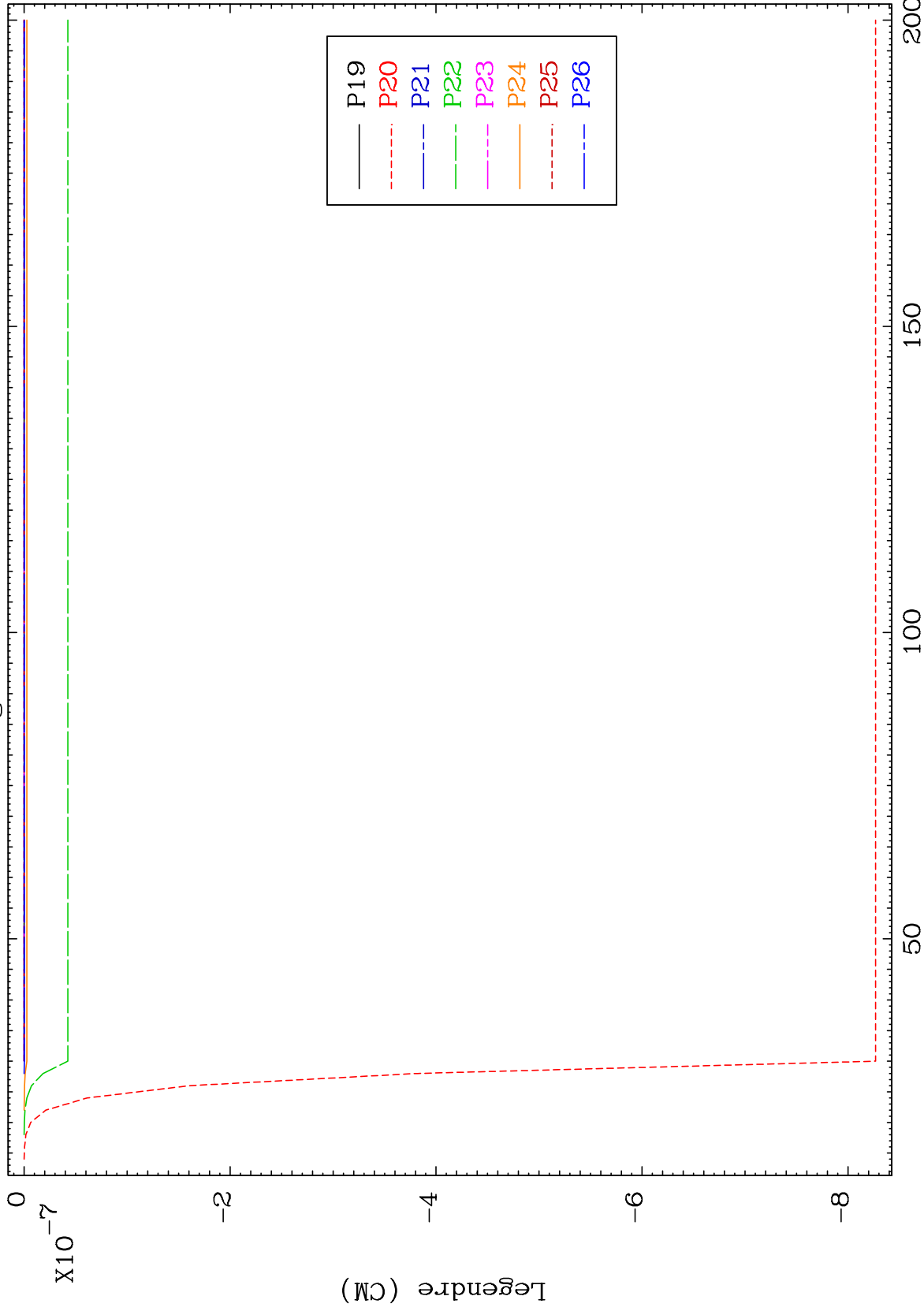
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51-Sb-124

MAT 5134

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

51-Sb-124



35

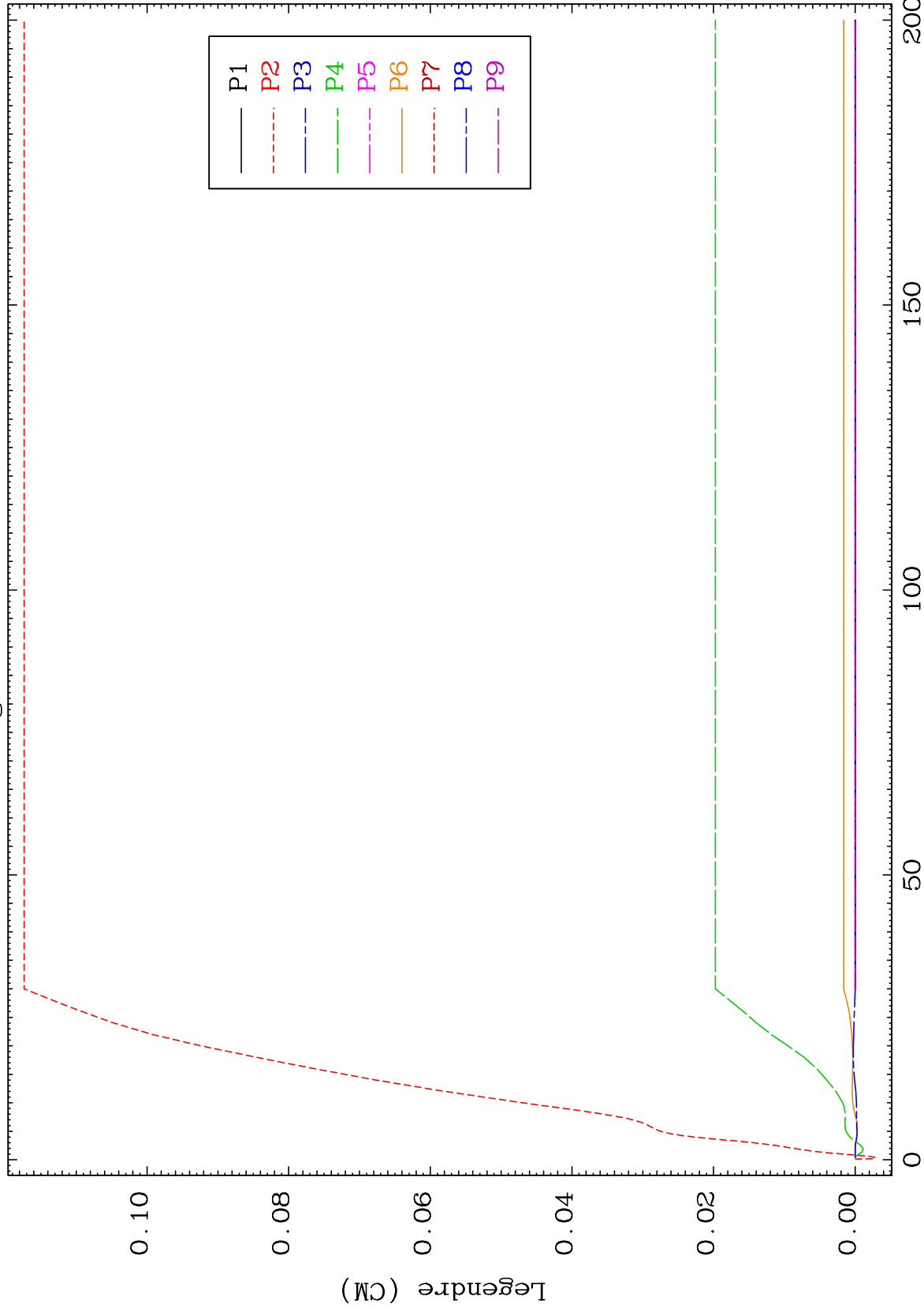
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

51-Sb-124



36

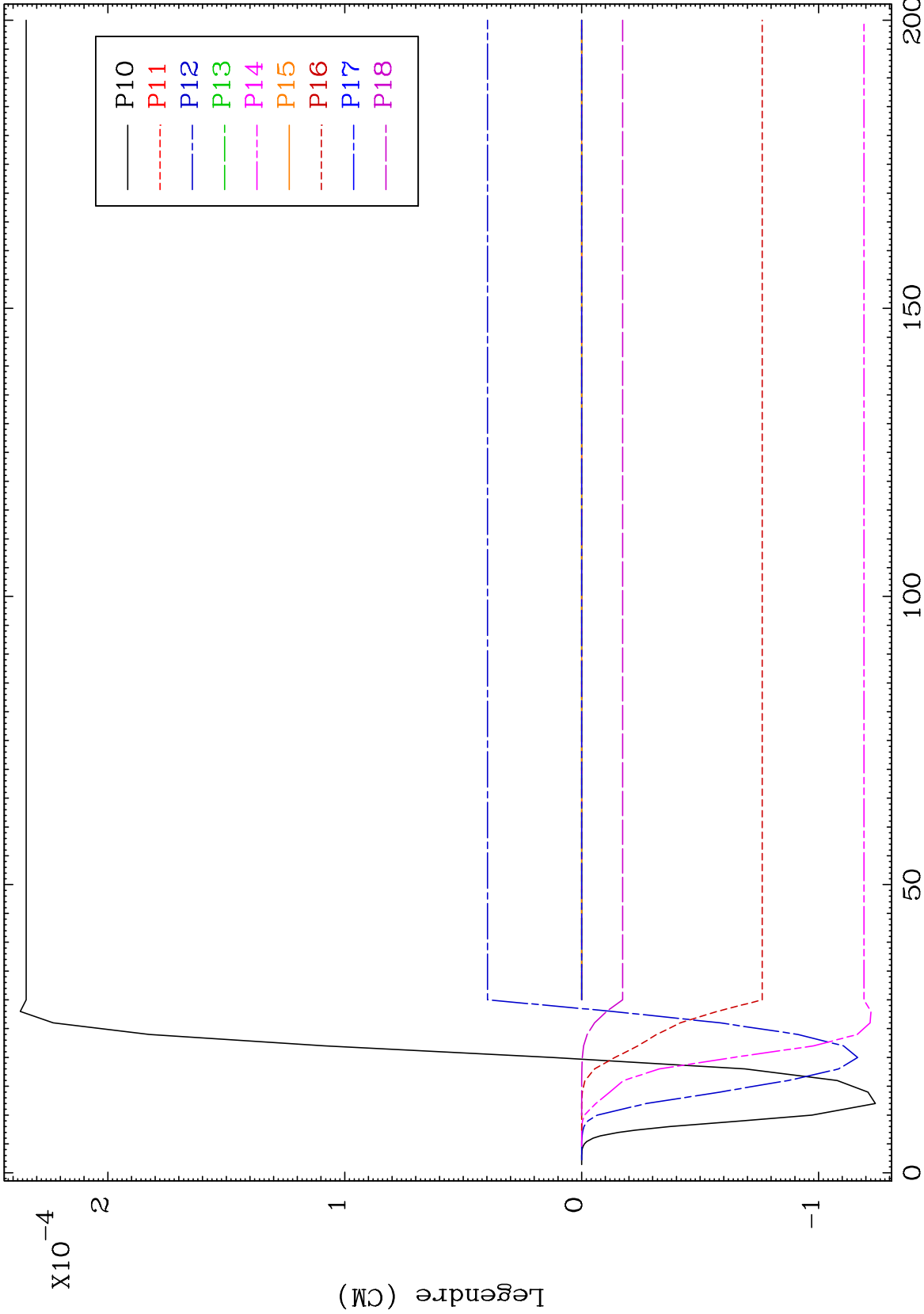
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

51-Sb-124



37

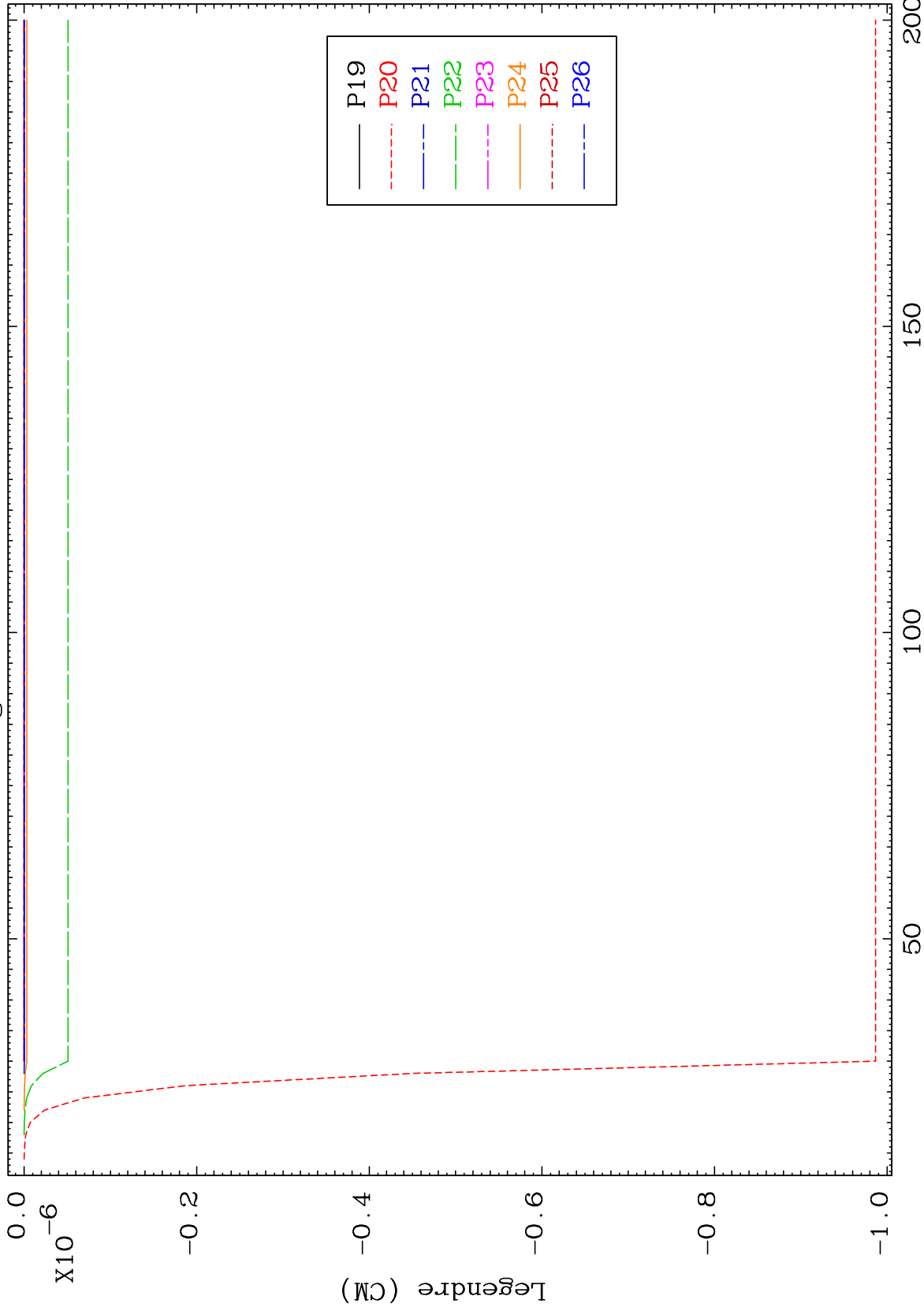
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

51-Sb-124

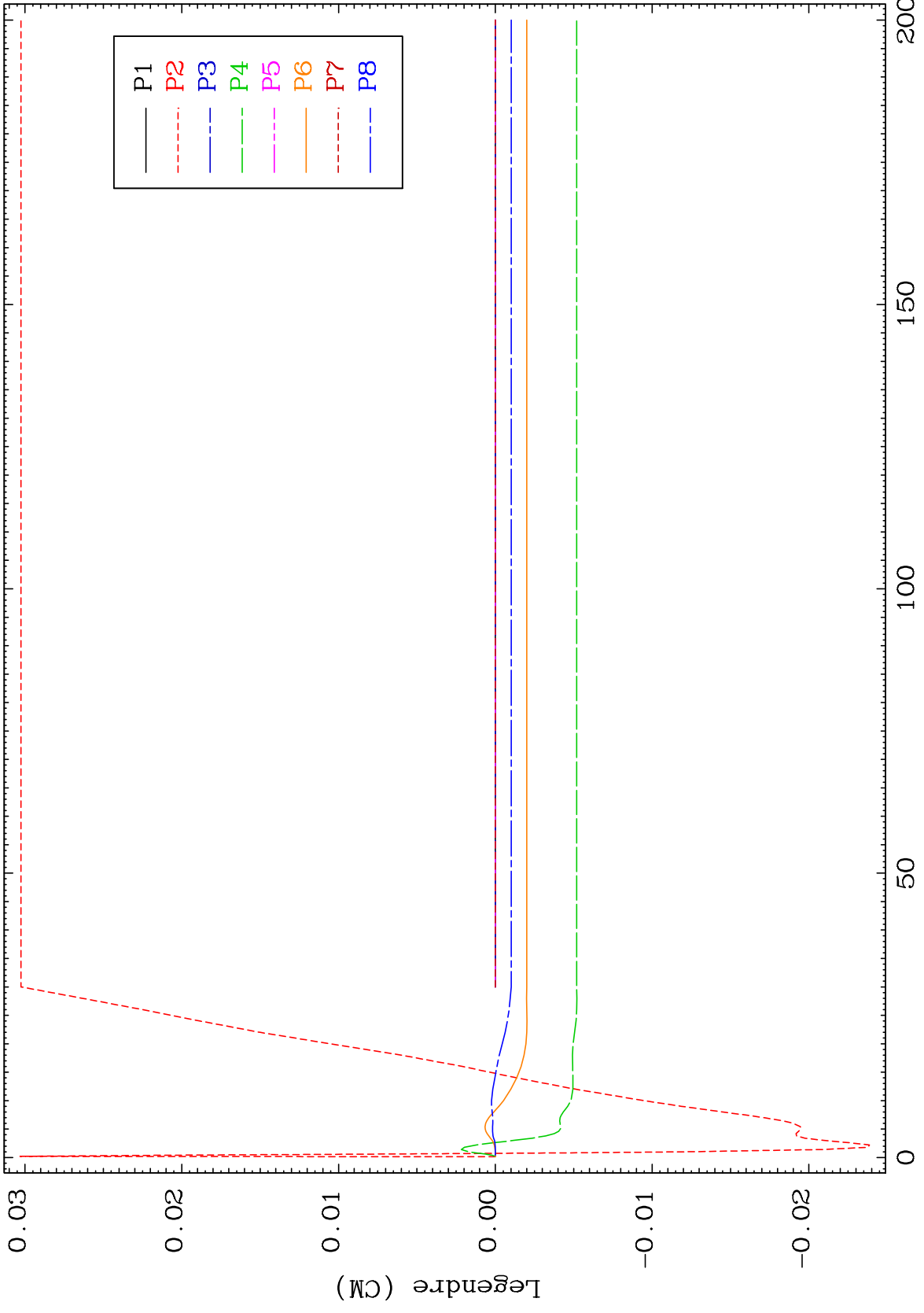


38

Incident Energy (MeV)

51-Sb-124

MAT 5134 MT= 57 (n,n') Level Legendre Coefficients 51-Sb-124

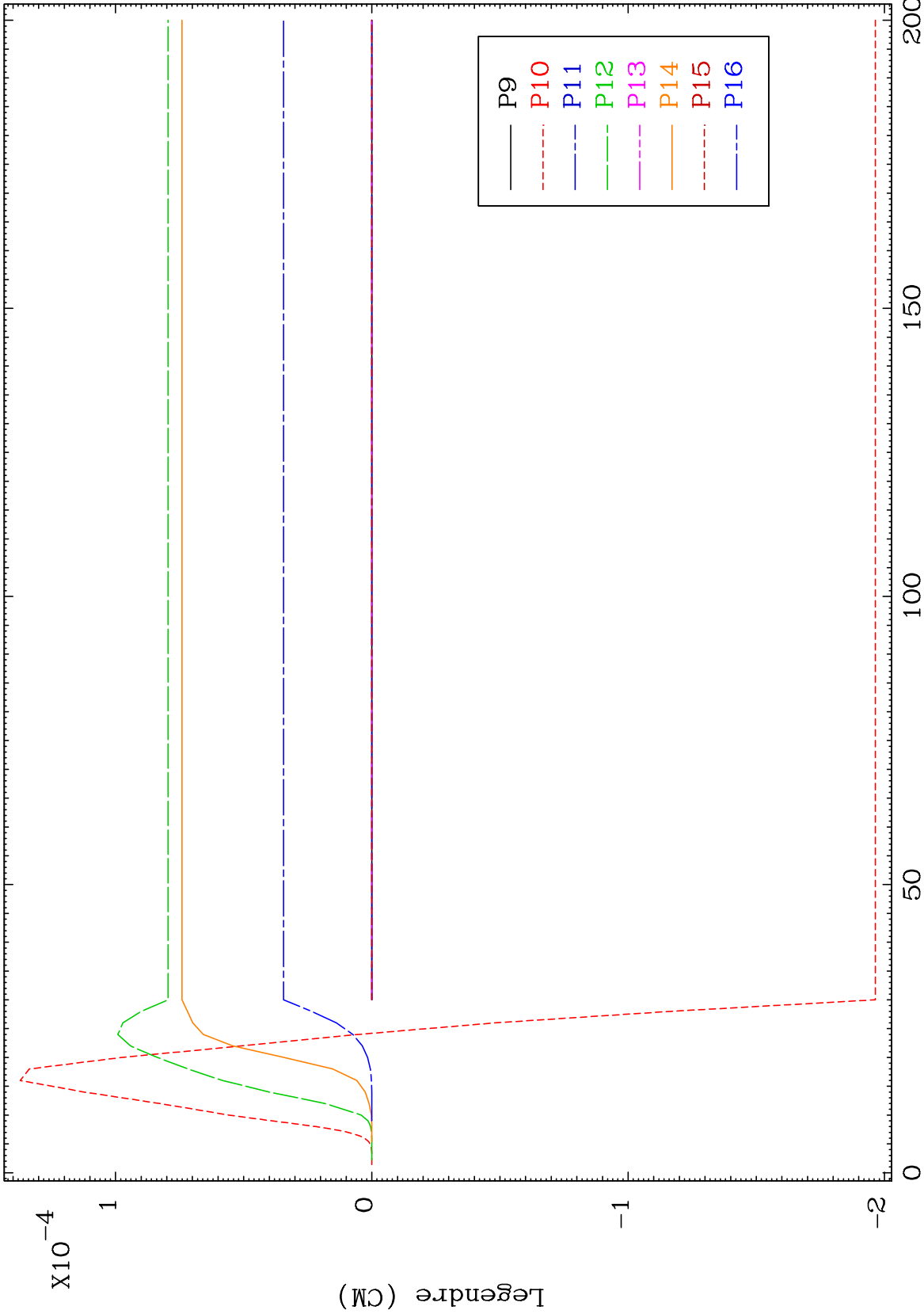


39 51-Sb-124

MAT 5134

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

51-Sb-124



40

Incident Energy (MeV)

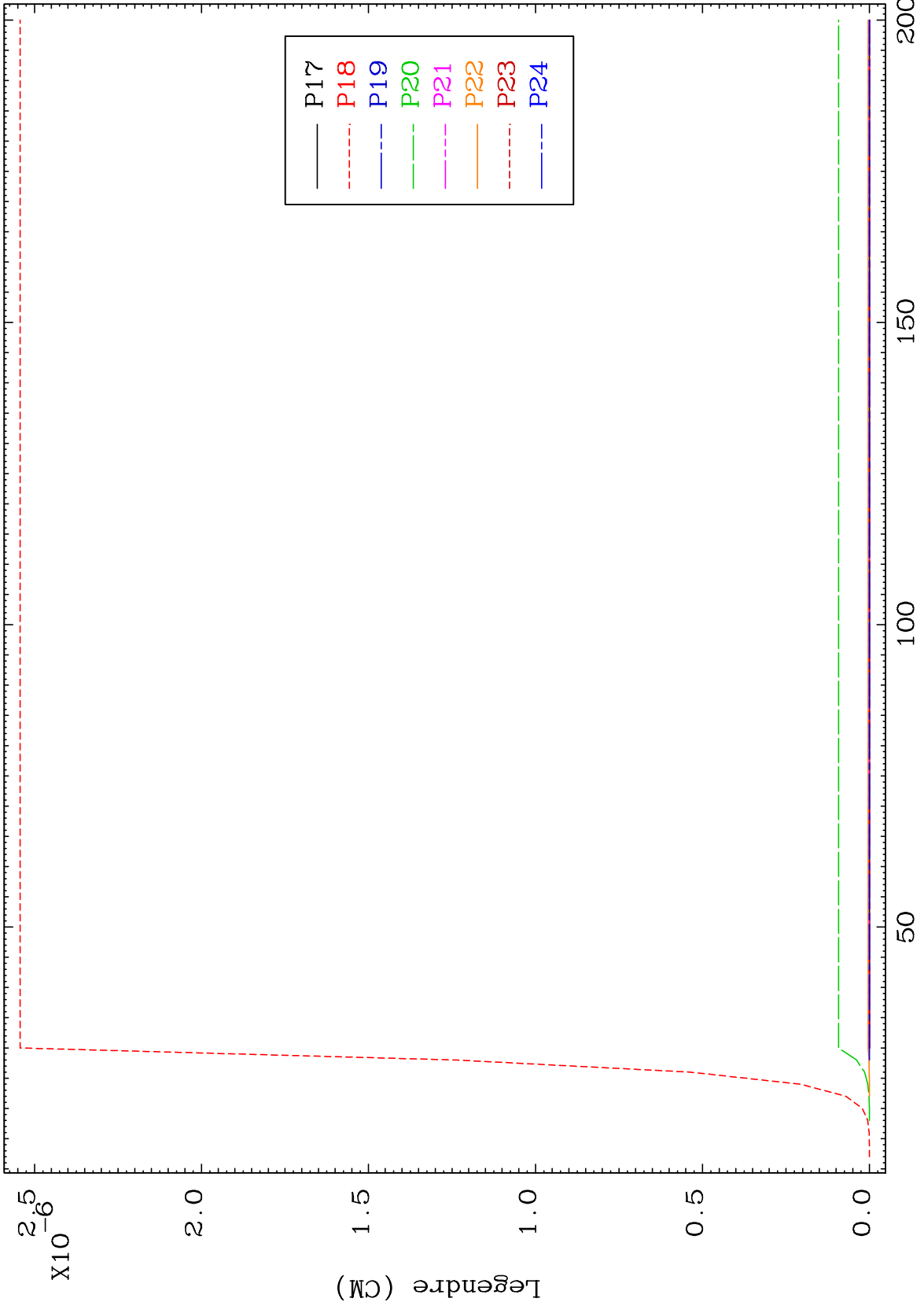
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51-Sb-124

MAT 5134

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

51-Sb-124



41

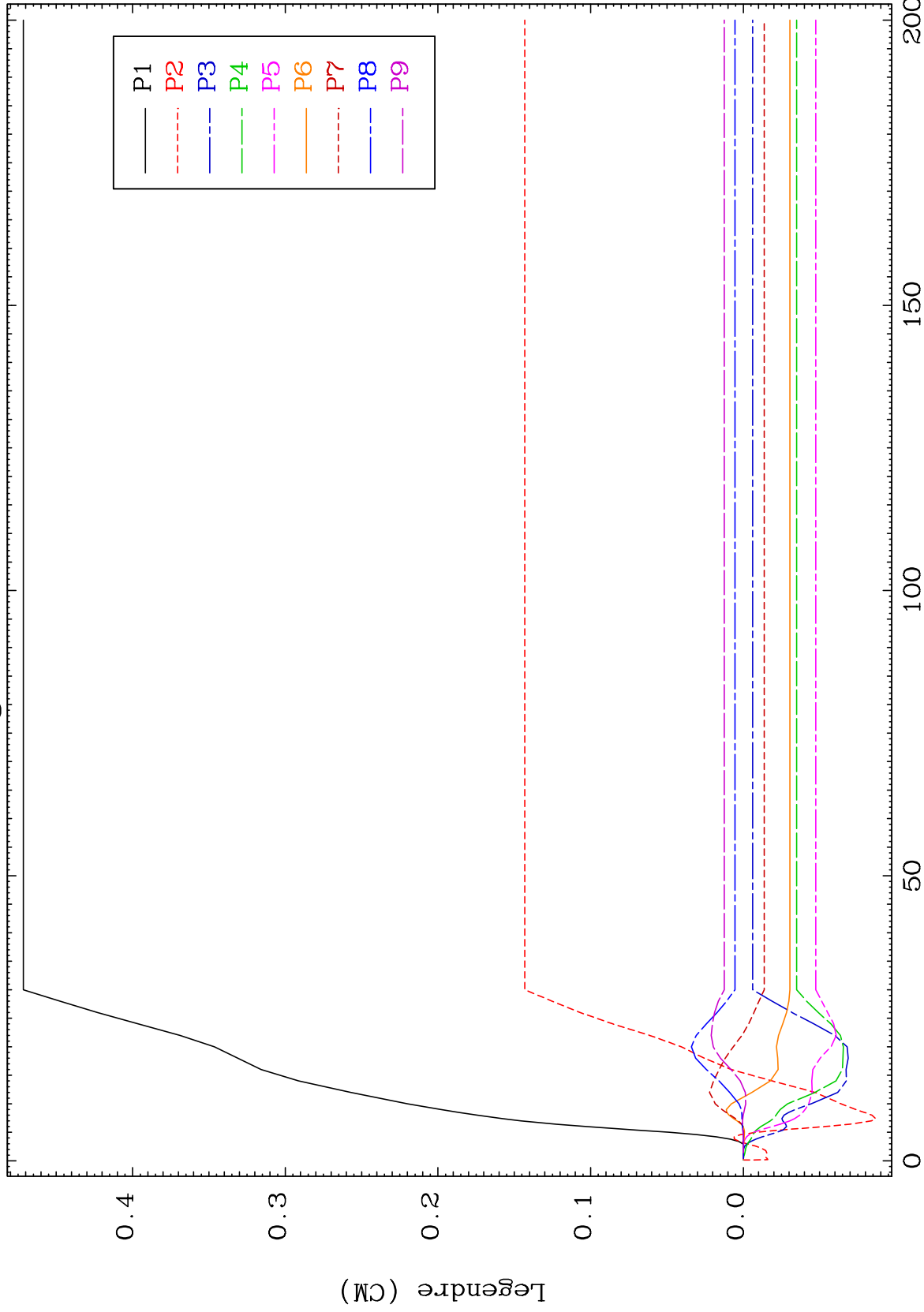
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

51-Sb-124



42

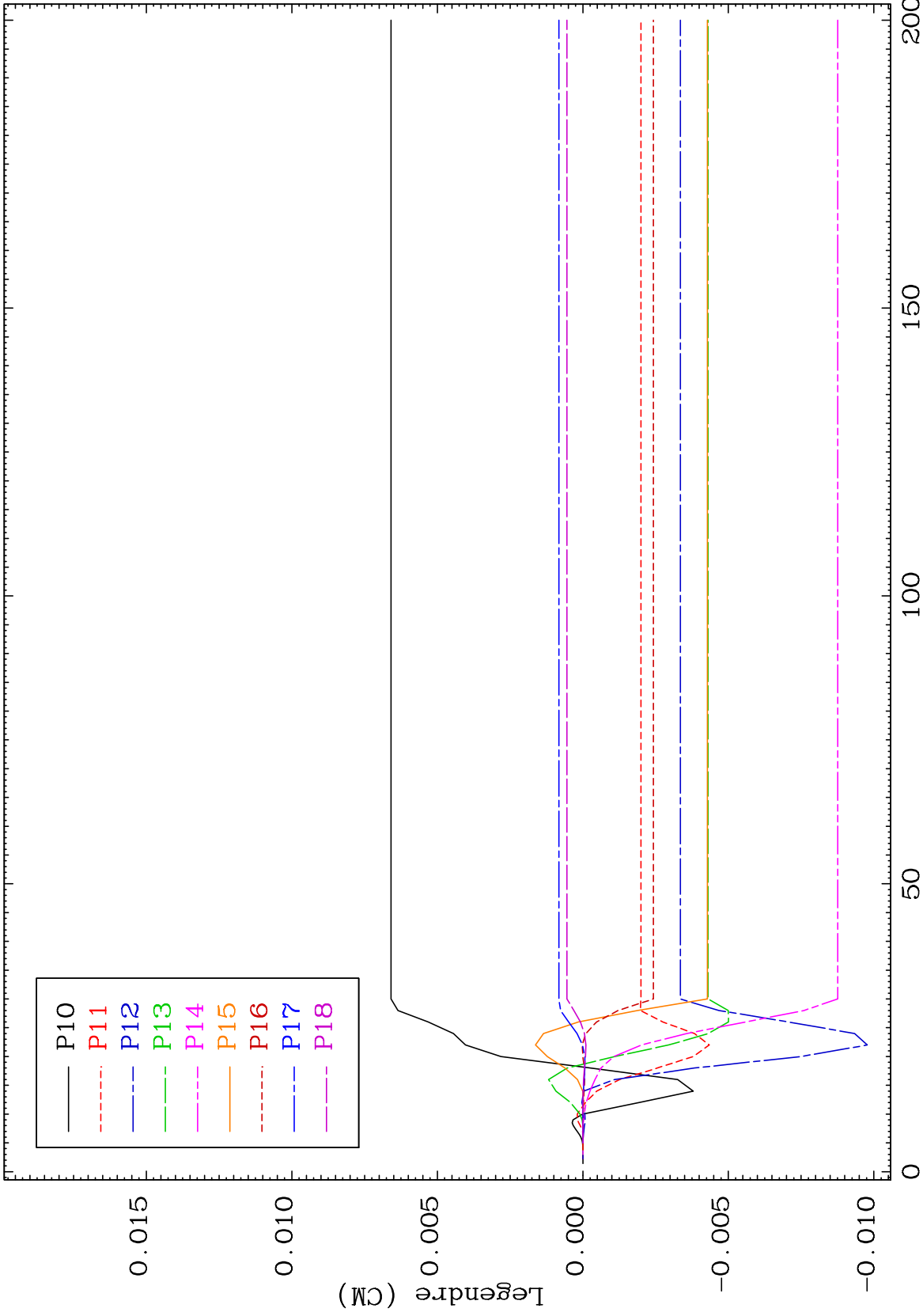
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

51-Sb-124



43

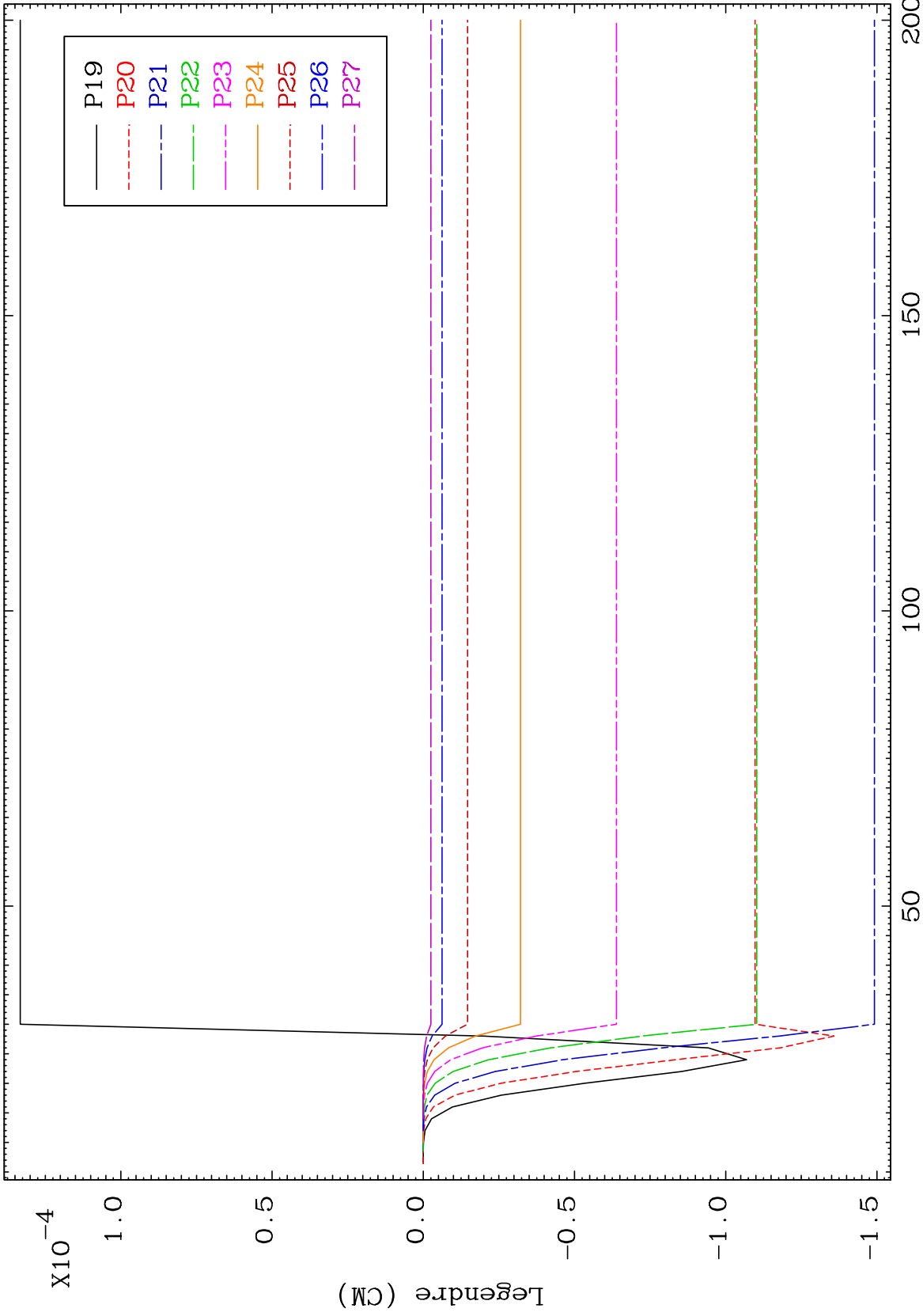
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

51-Sb-124

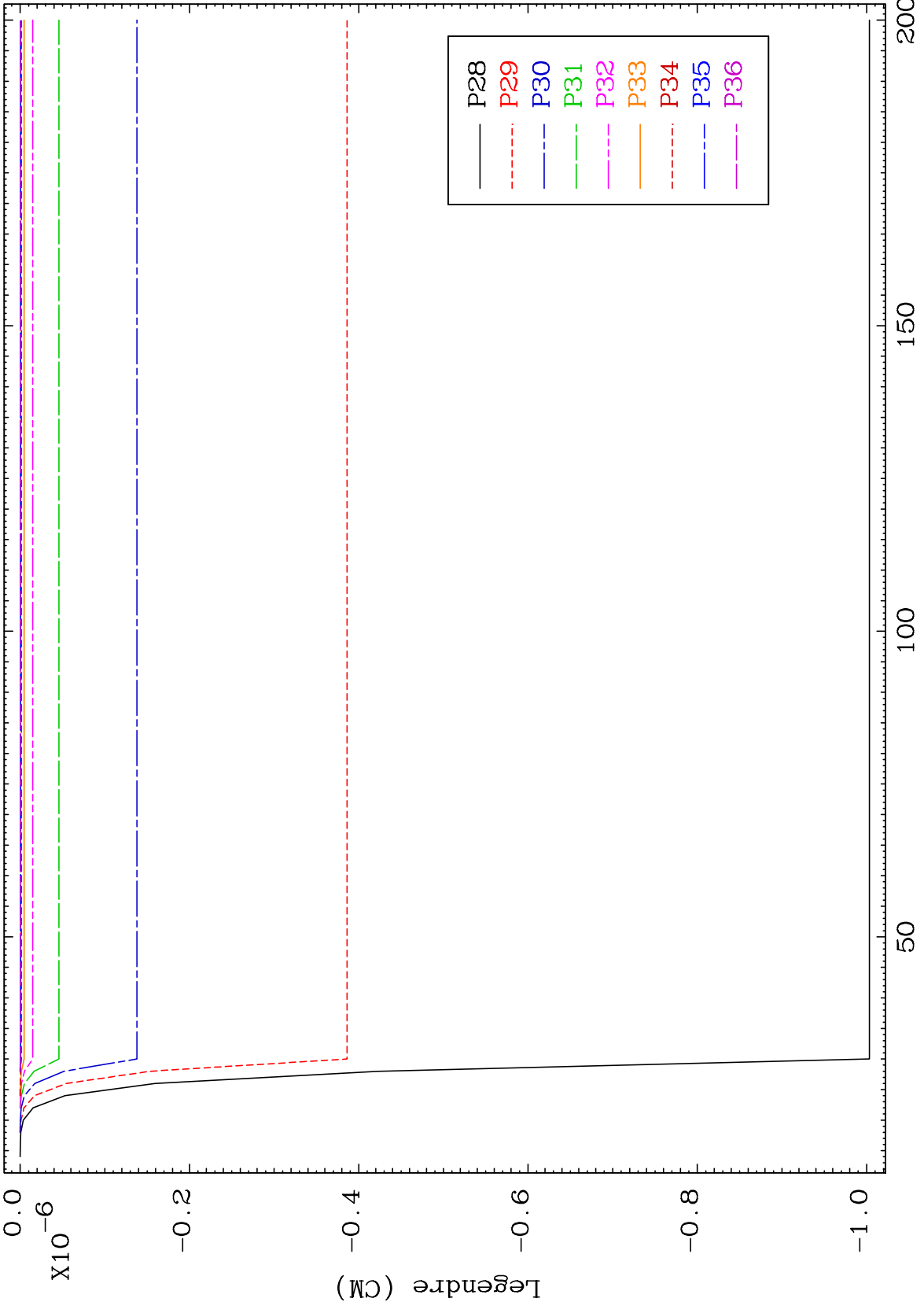


44

Incident Energy (MeV)

51-Sb-124

MAT 5134 MT= 58 (n,n') Level Legendre Coefficients 51-Sb-124

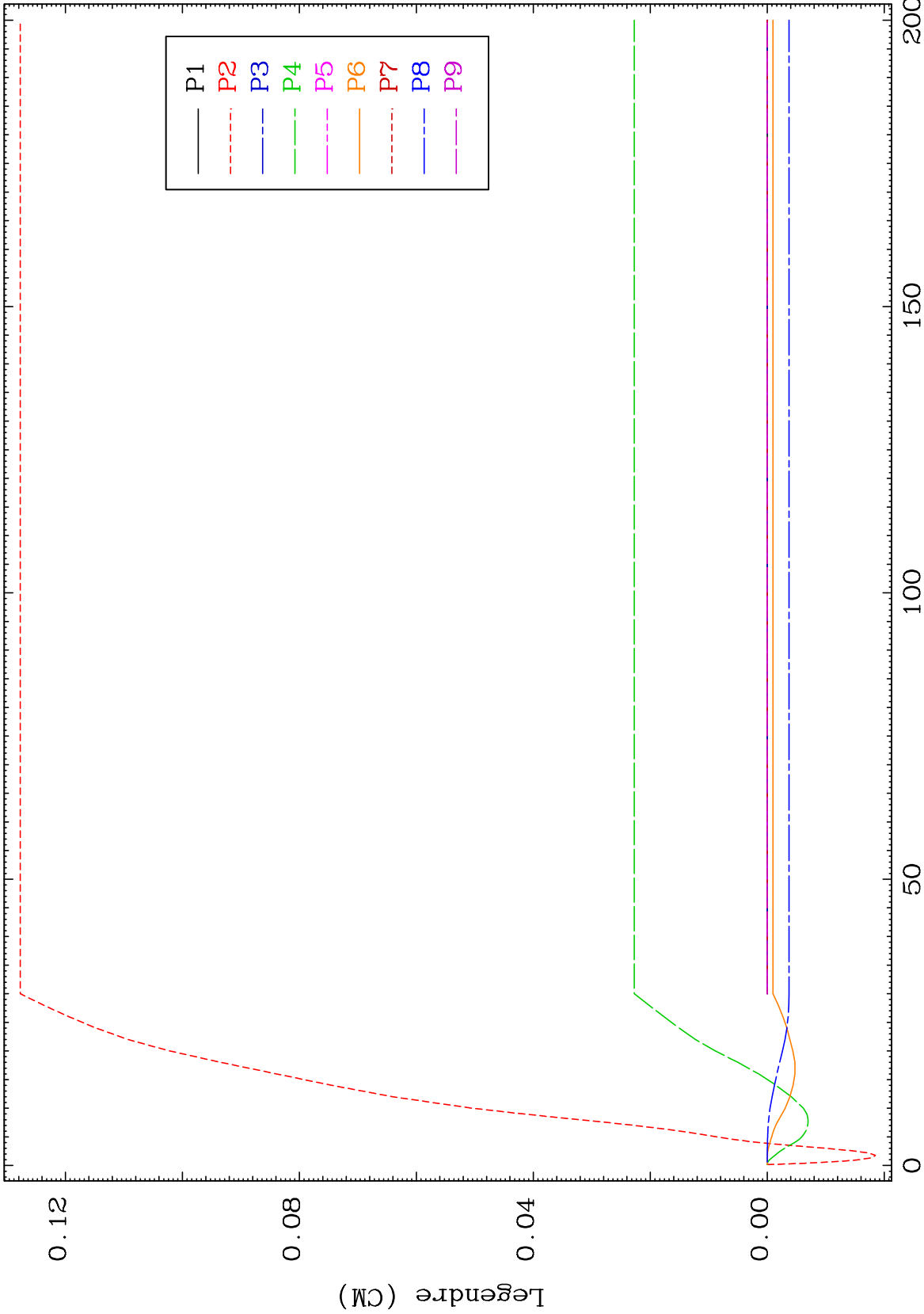


45 Incident Energy (MeV) 51-Sb-124

MAT 5134

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

51-Sb-124



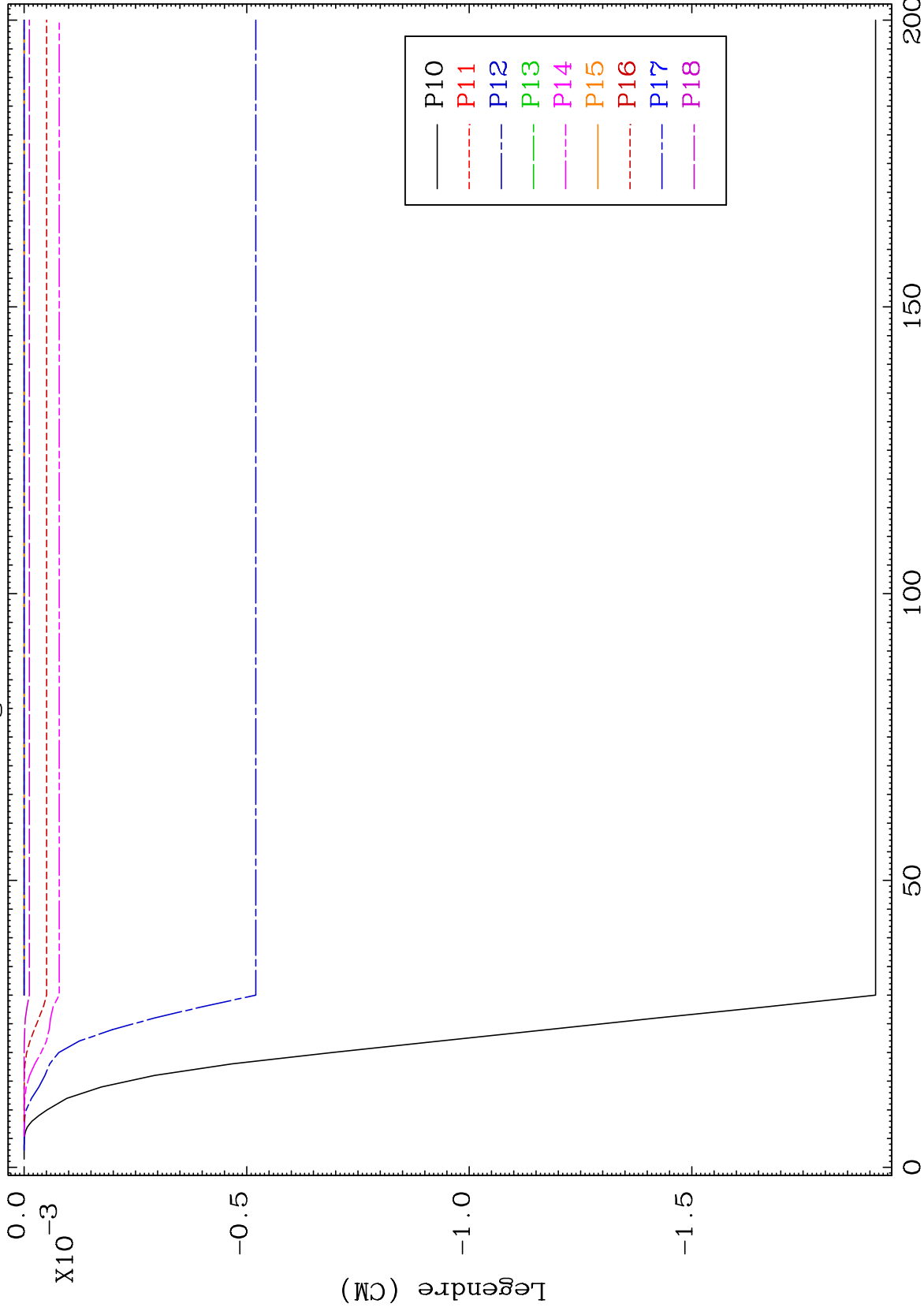
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51-Sb-124

MAT 5134

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

51-Sb-124

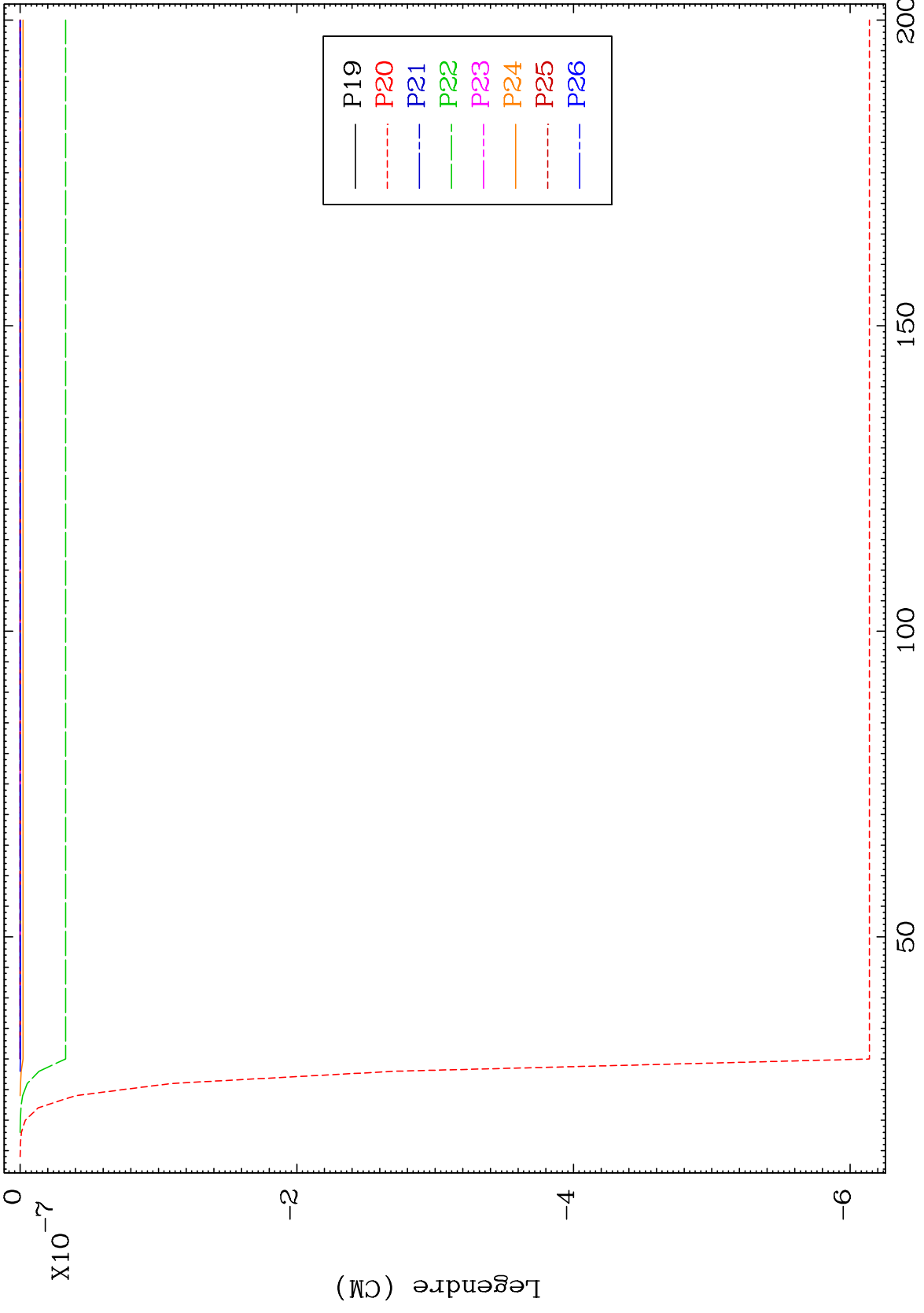


47

Incident Energy (MeV)

51-Sb-124

MAT 5134 MT= 59 (n,n') Level Legendre Coefficients 51-Sb-124

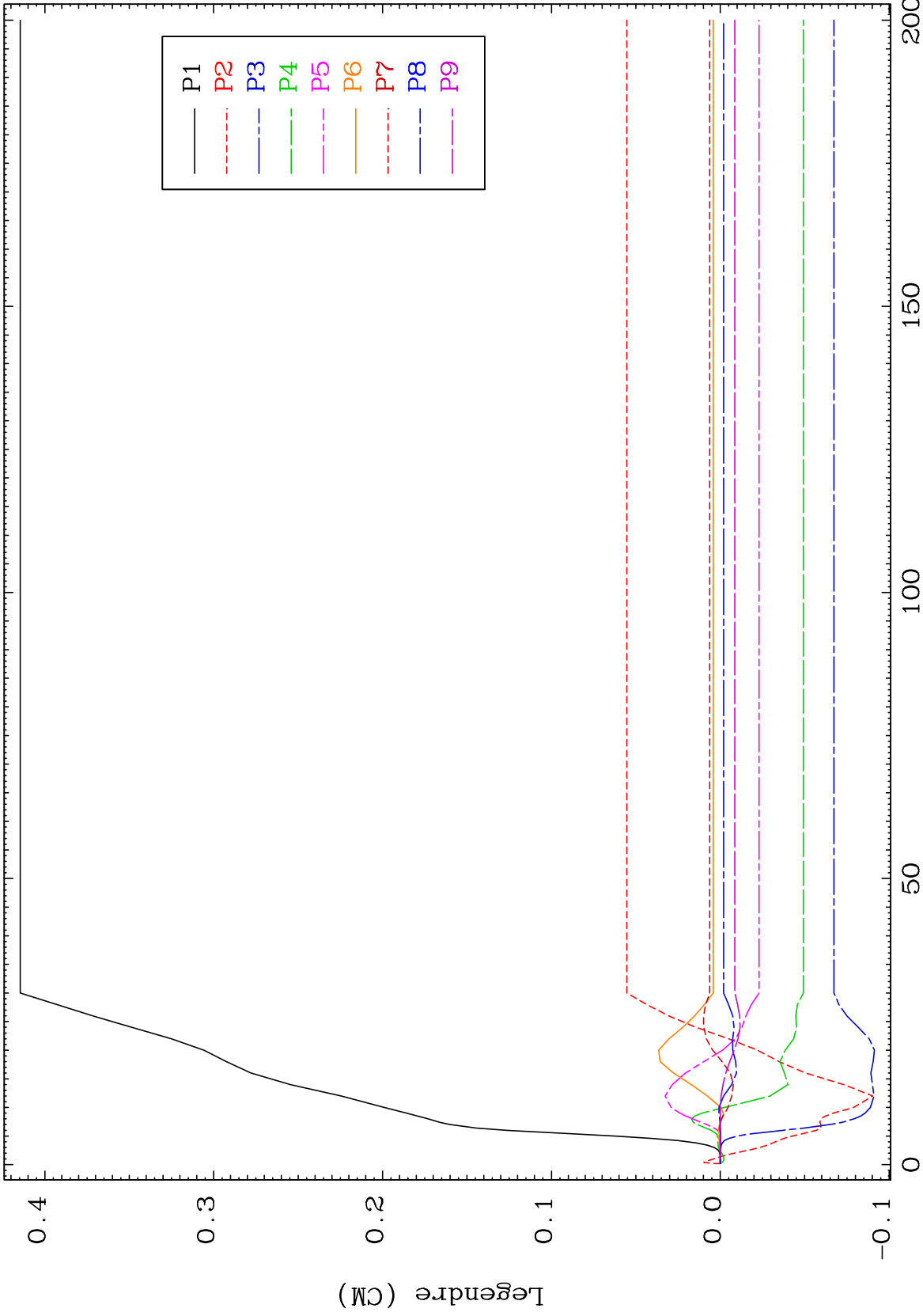


48 51-Sb-124

MAT 5134

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

51-Sb-124



49

Incident Energy (MeV)

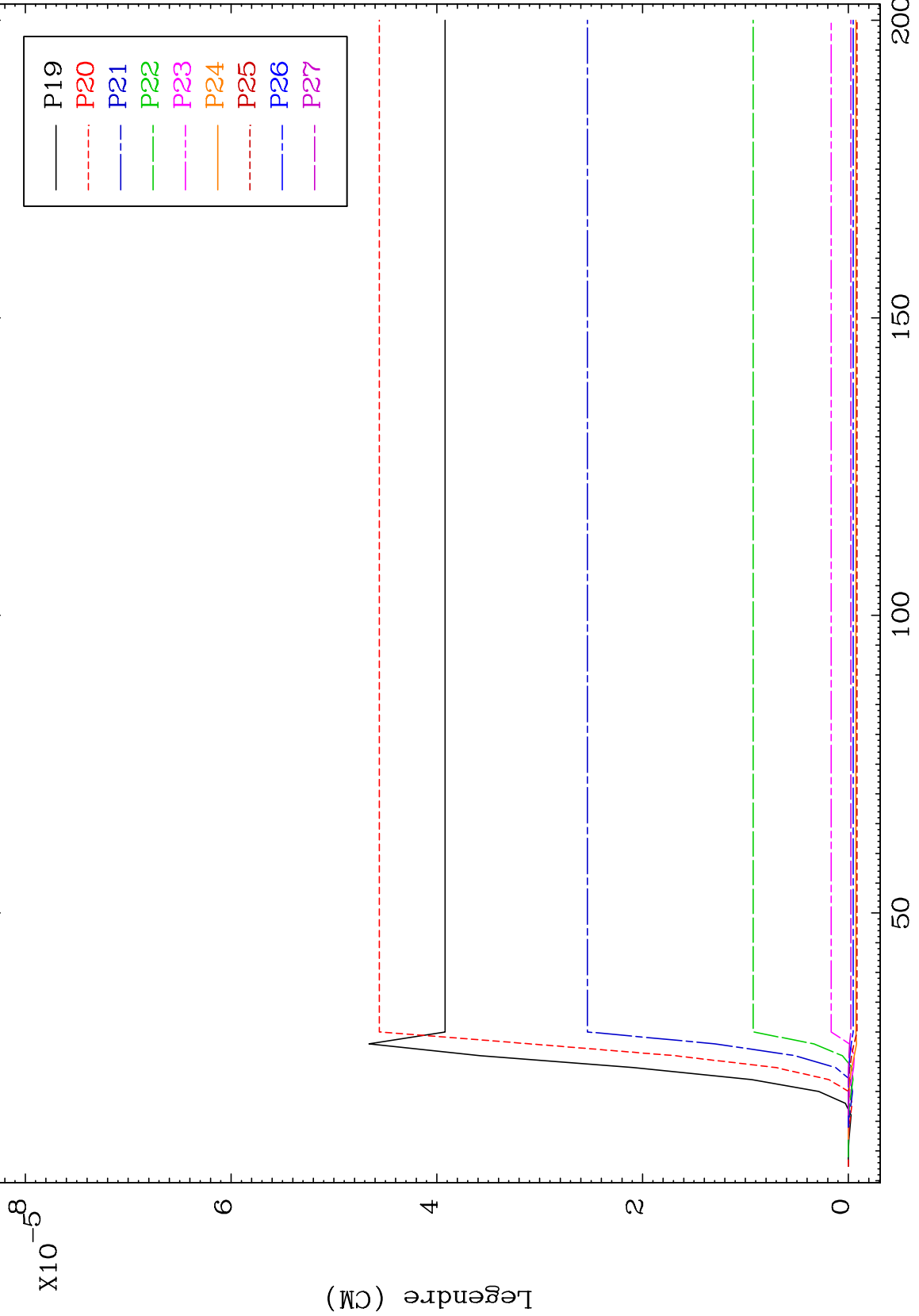
51-Sb-124



MAT 5134

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

51-Sb-124



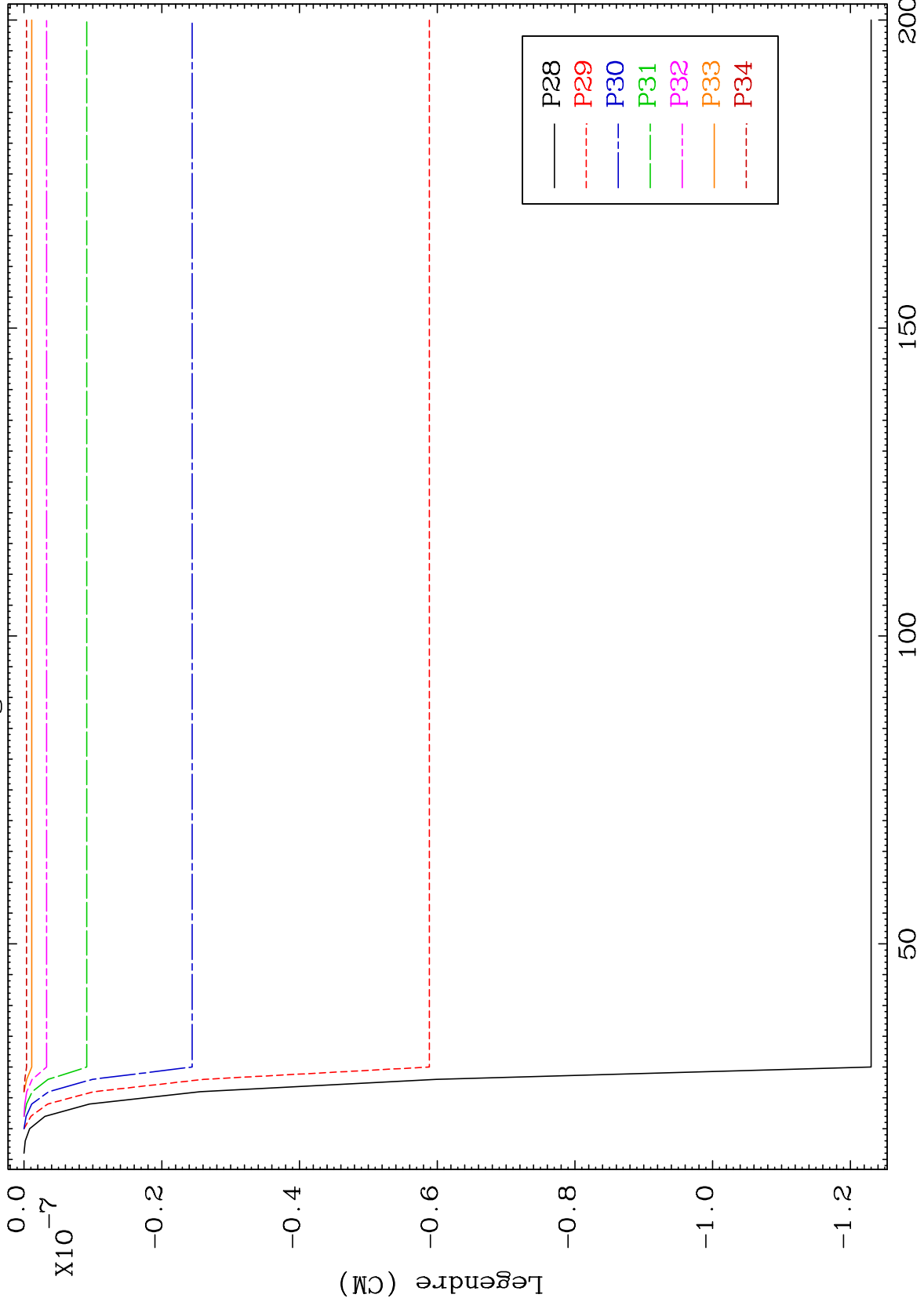
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51-Sb-124

MAT 5134

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

51-Sb-124



51-Sb-124

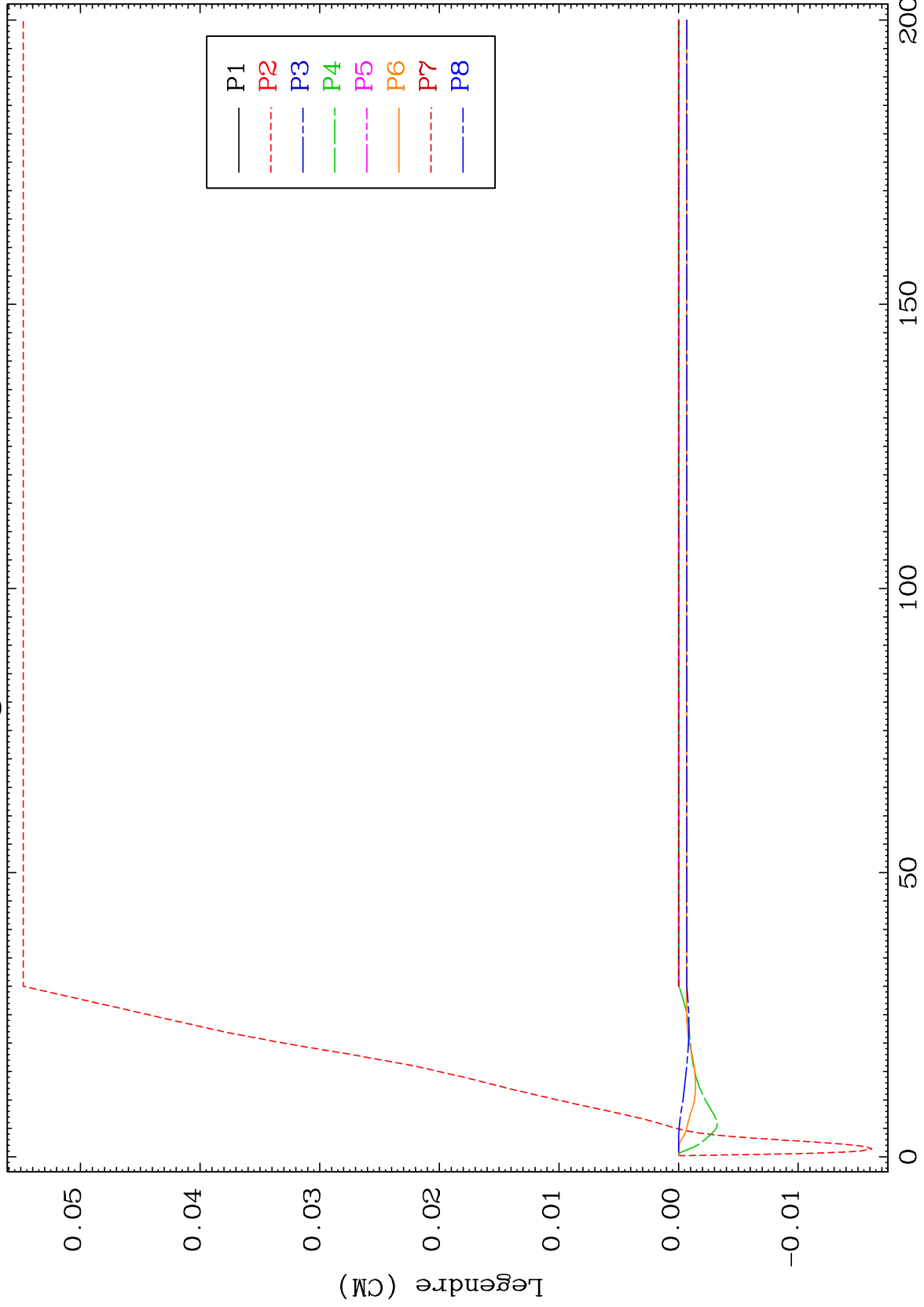
Incident Energy (MeV)

52

MAT 5134

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

51-Sb-124



53

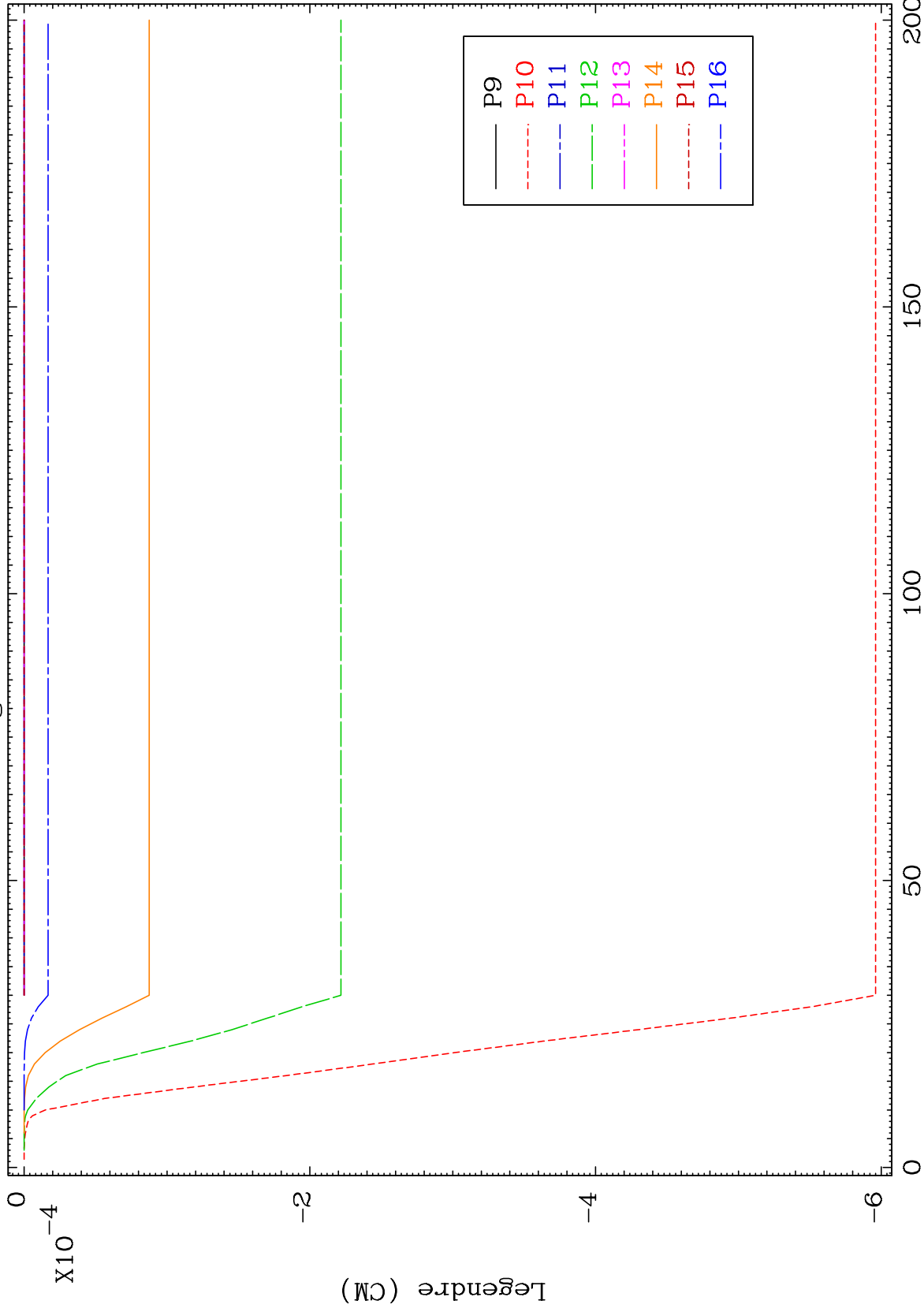
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

51-Sb-124



54

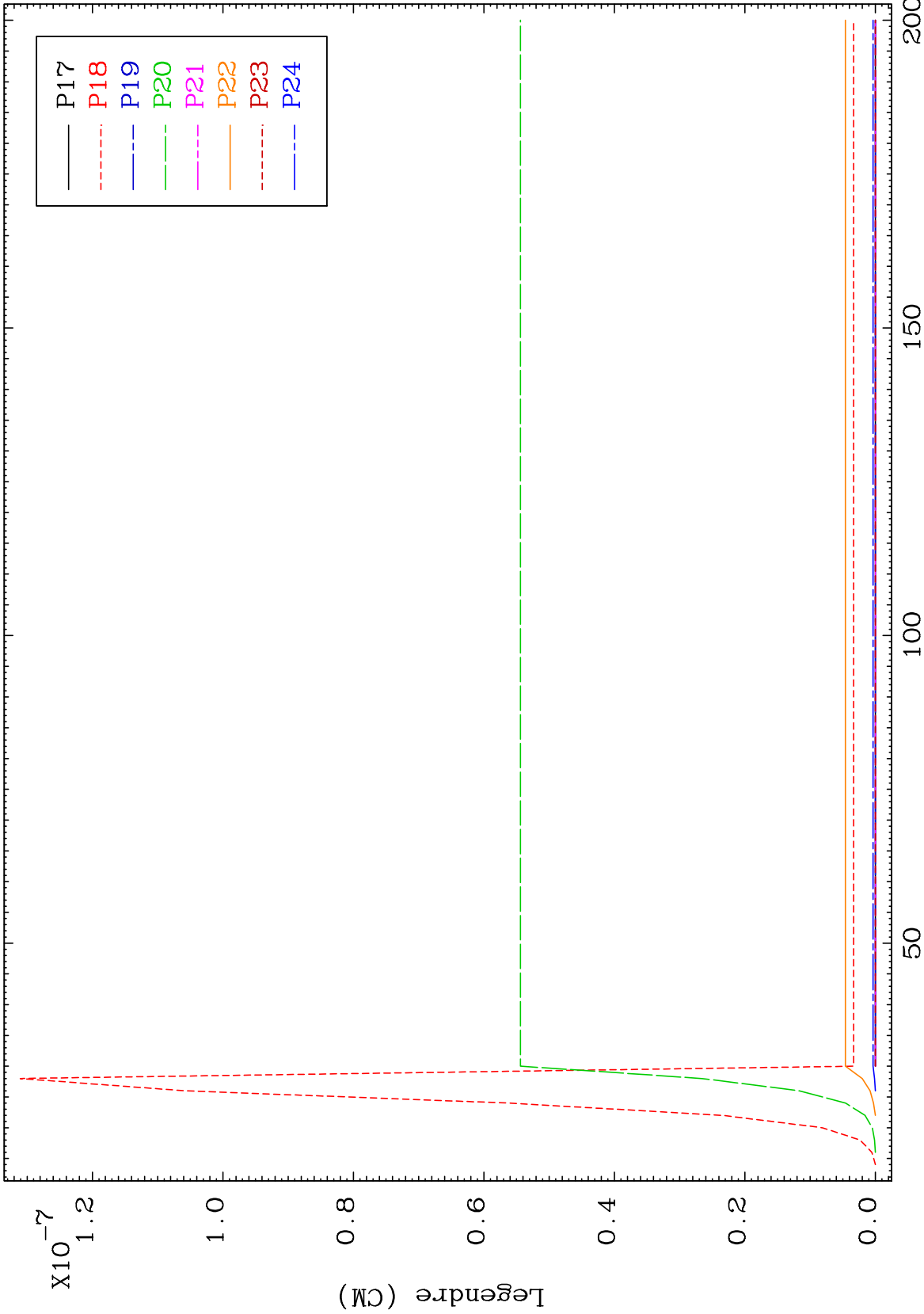
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

51-Sb-124



55

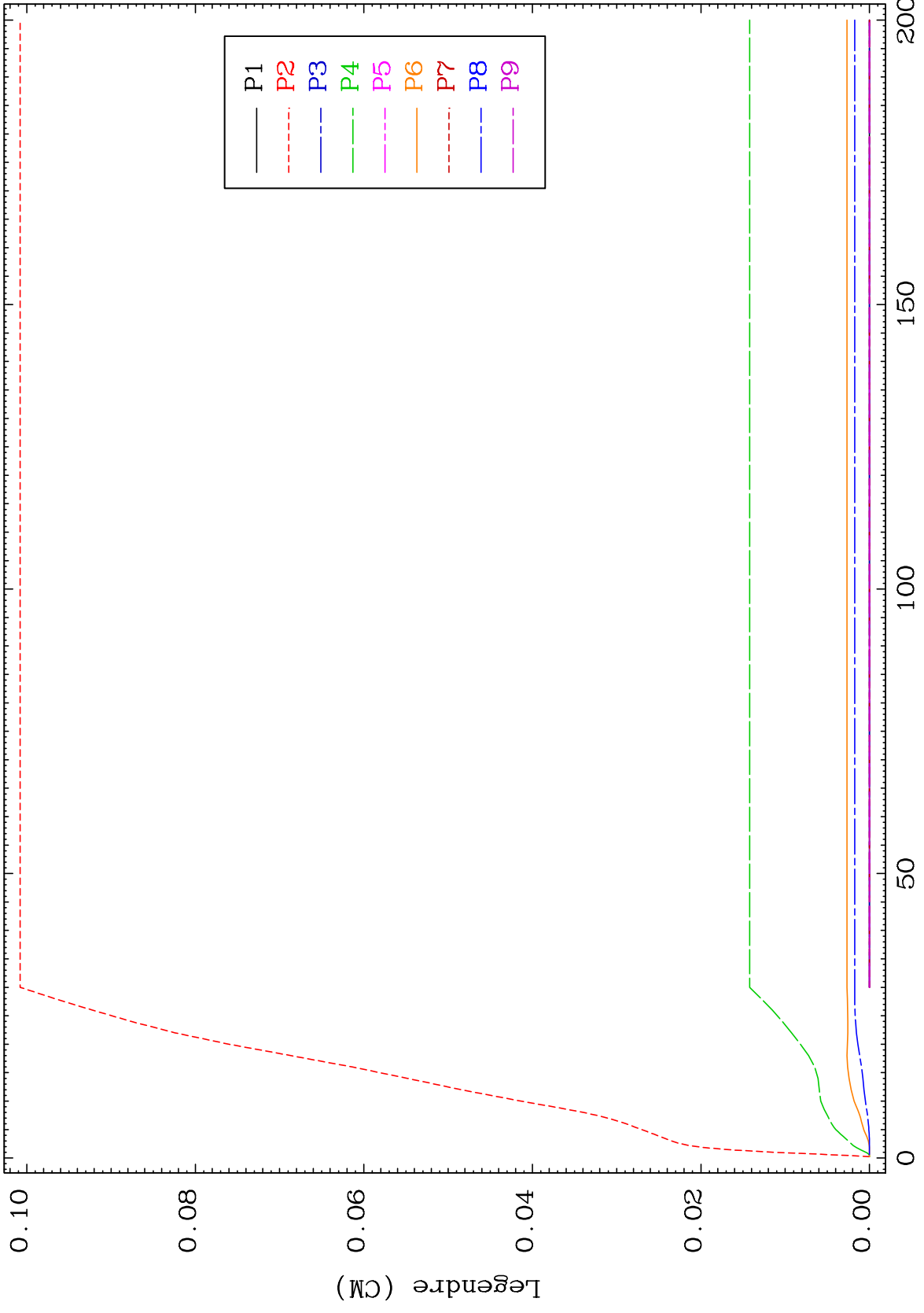
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

51-Sb-124



56

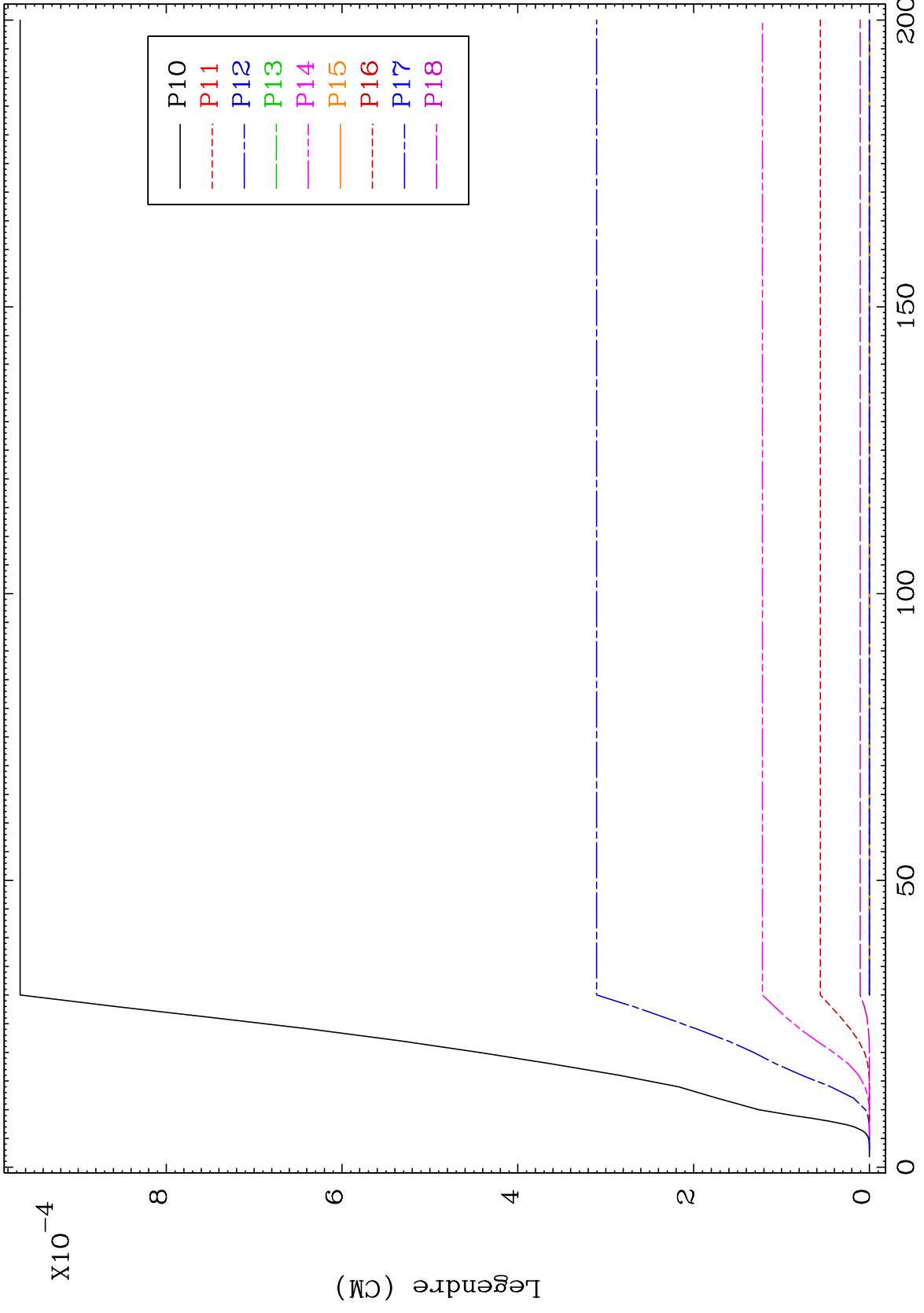
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

51-Sb-124



57

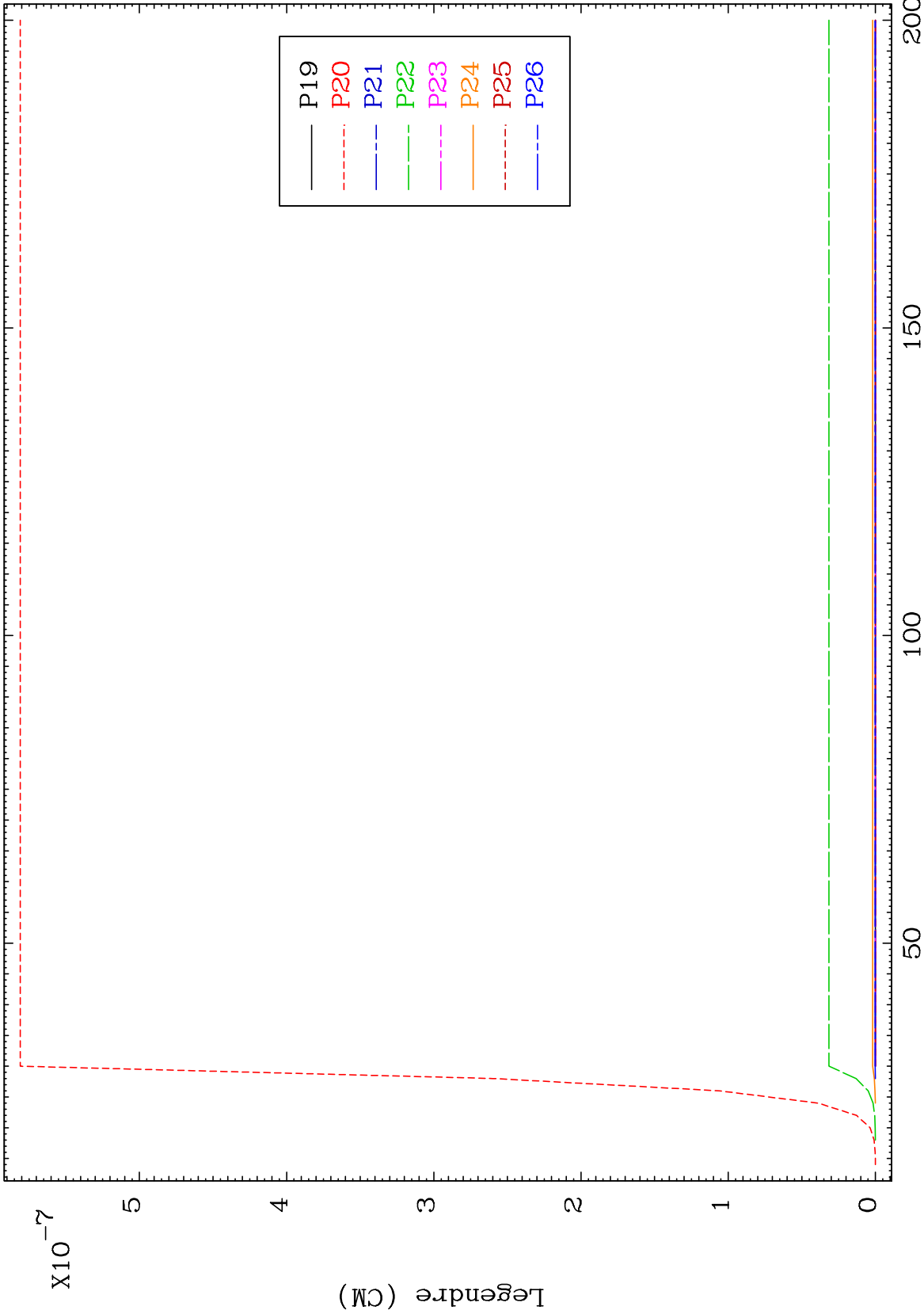
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

51-Sb-124



58

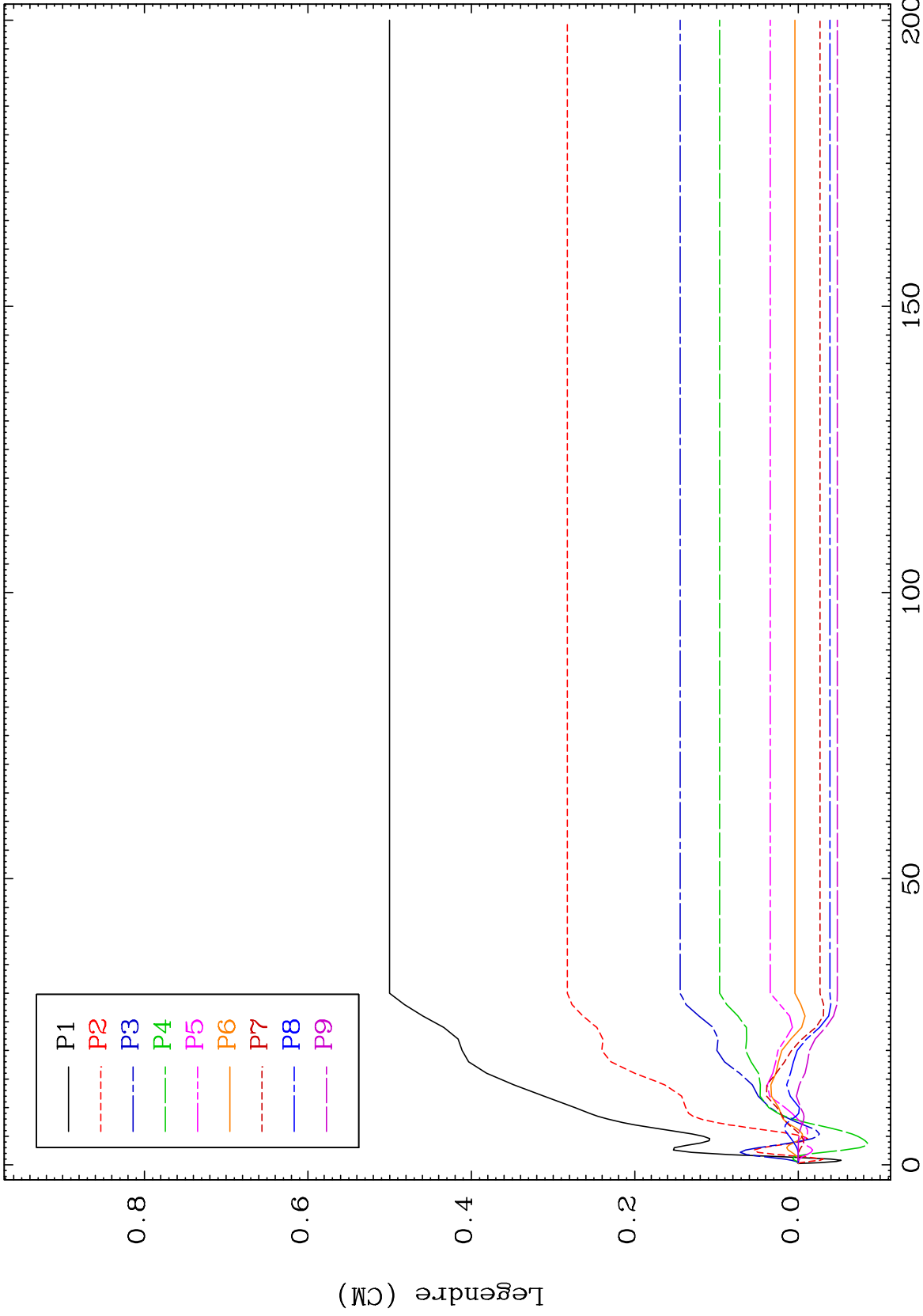
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

51-Sb-124



59

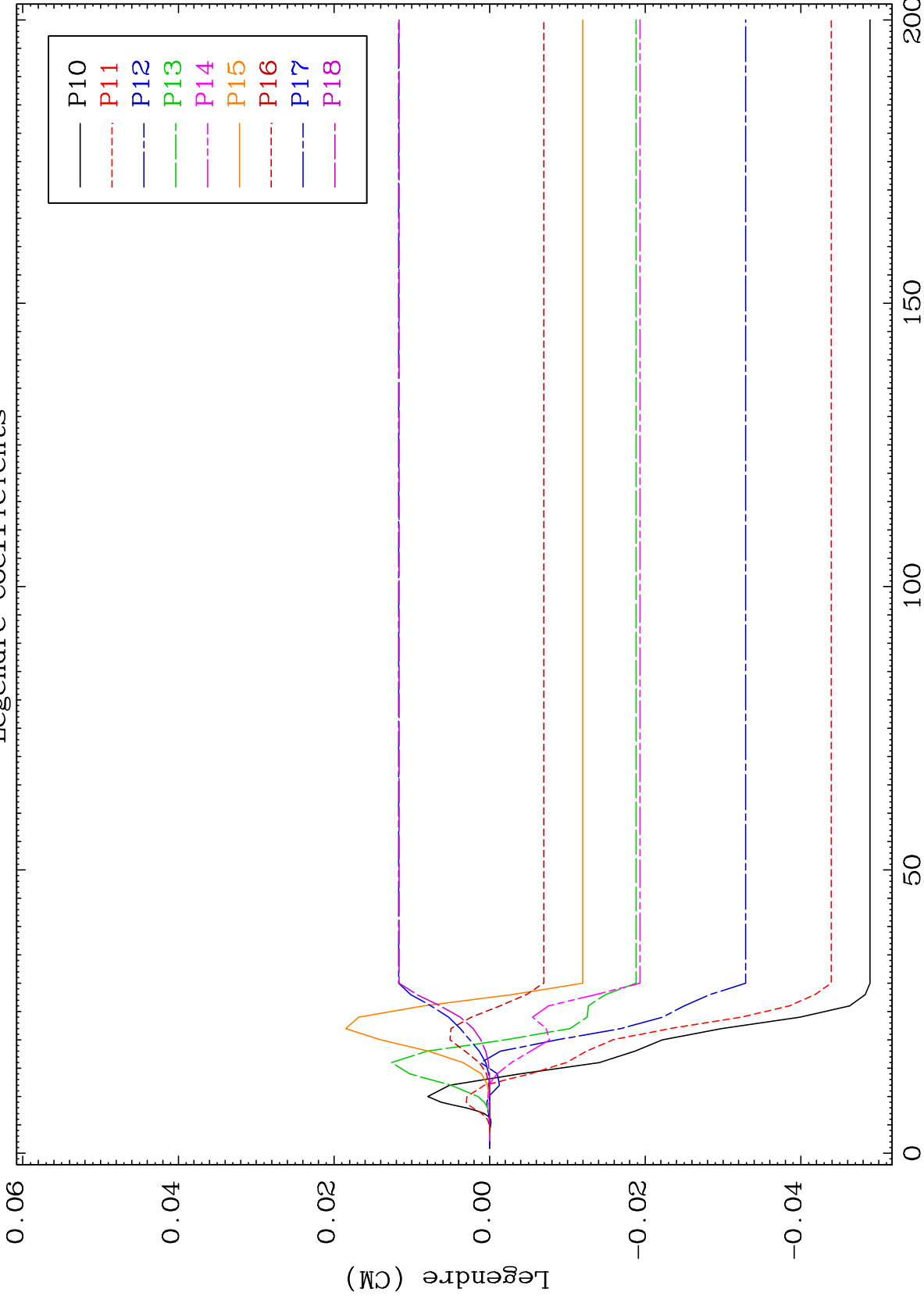
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

51-Sb-124



51-Sb-124

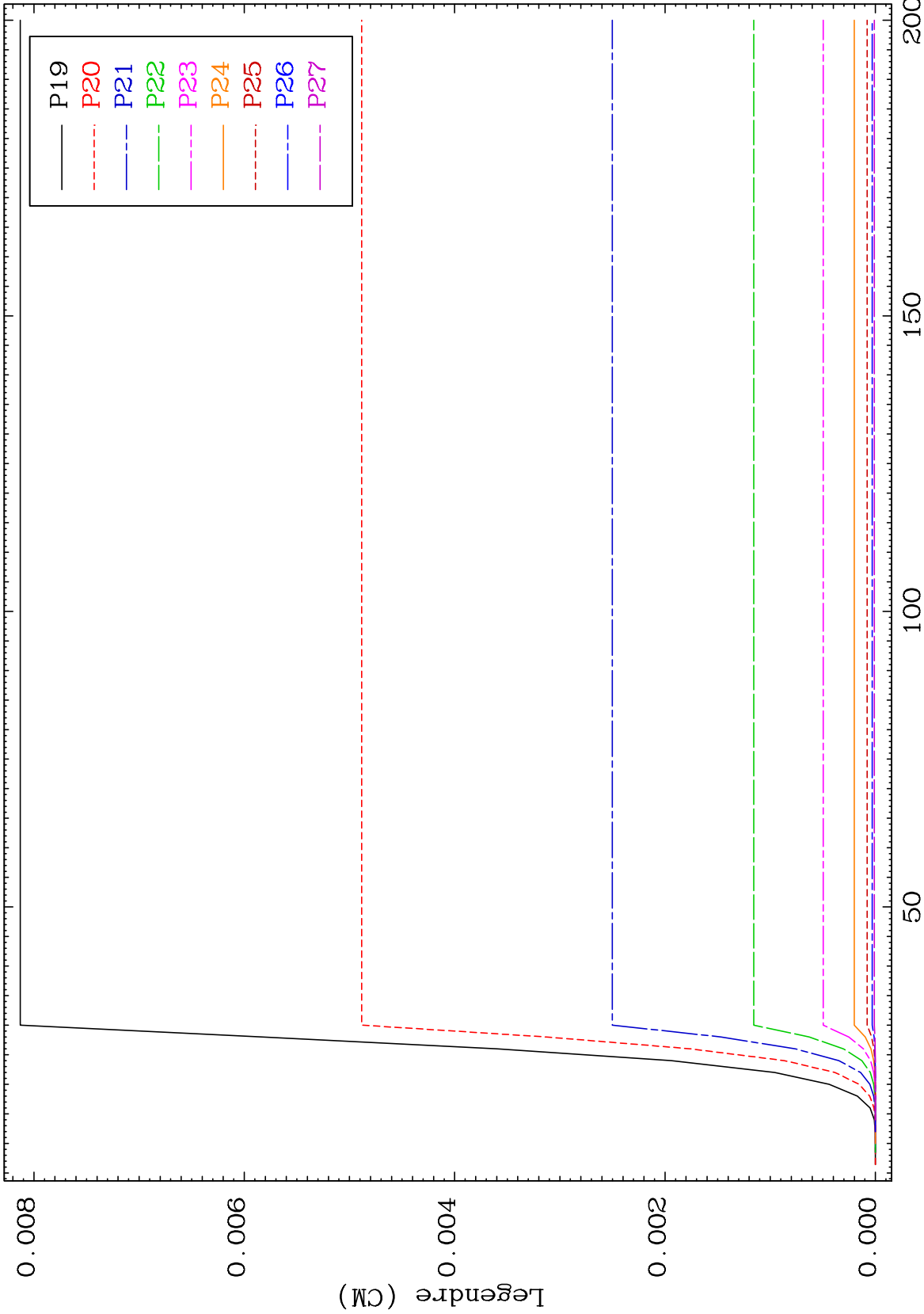
Incident Energy (MeV)

60

MAT 5134

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

51-Sb-124



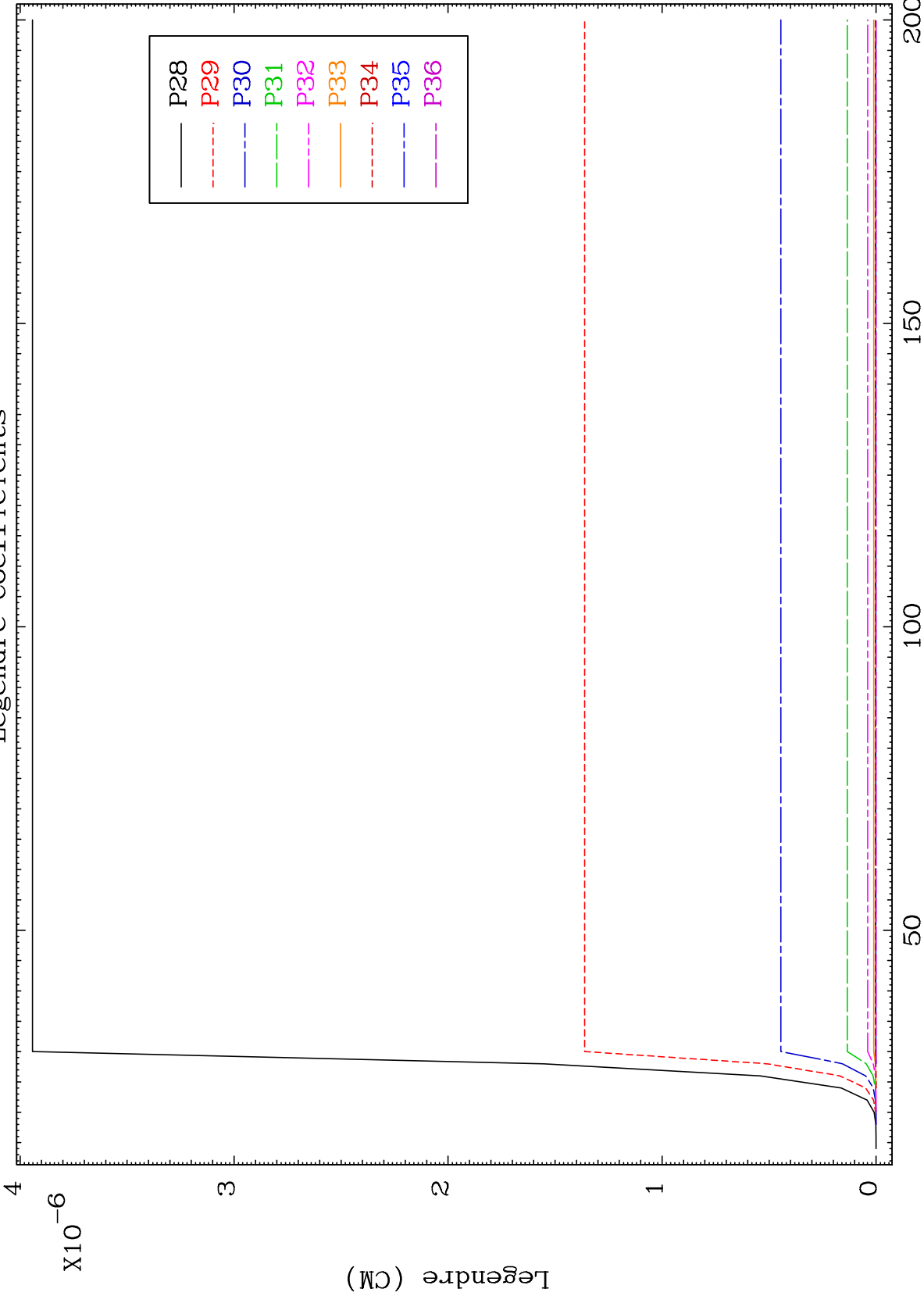
61

51-Sb-124

MAT 5134

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

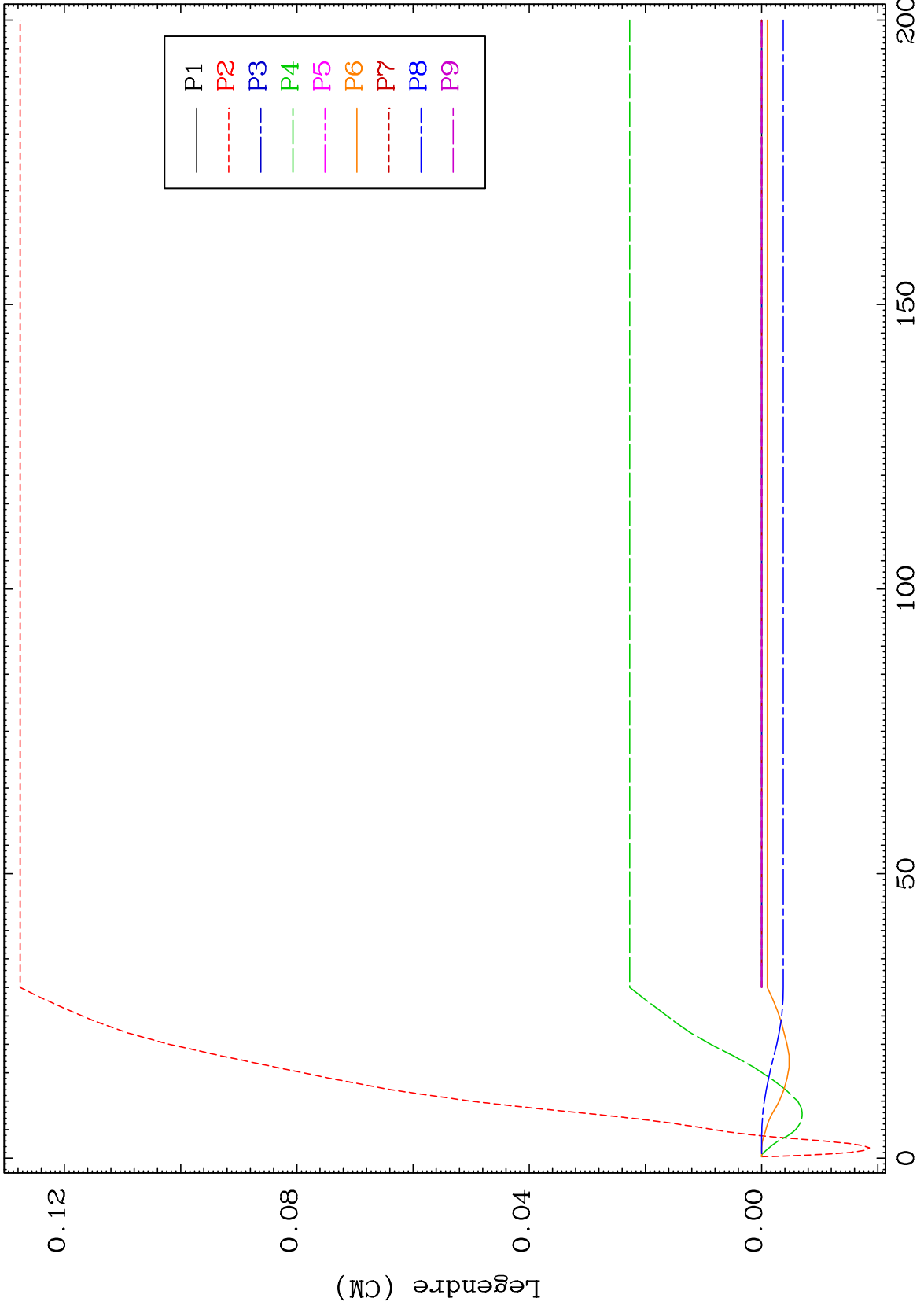
51-Sb-124



62

51-Sb-124

MAT 5134 MT= 64 (n,n') Level Legendre Coefficients 51-Sb-124

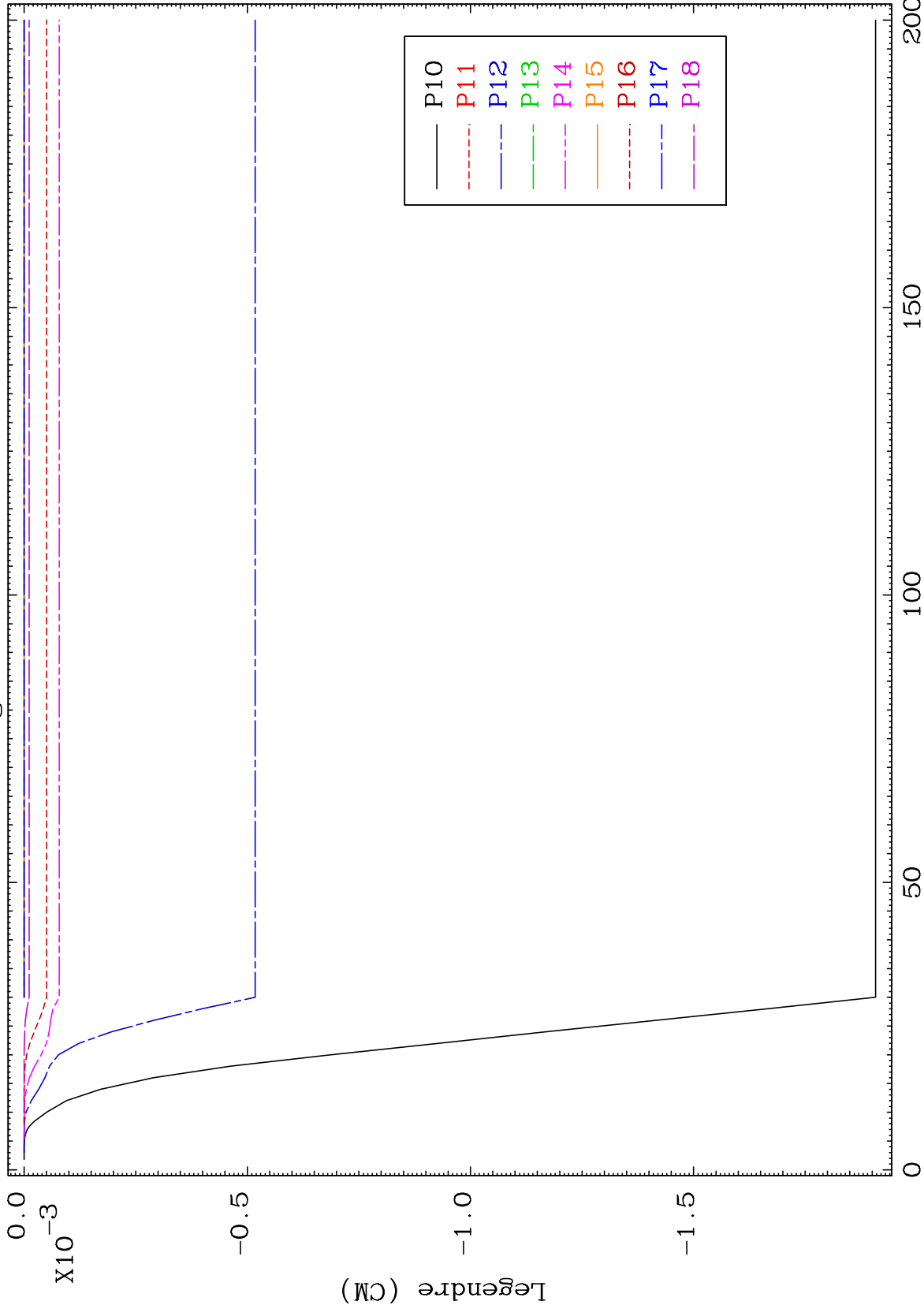


63 Incident Energy (MeV) 51-Sb-124

MAT 5134

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

51-Sb-124

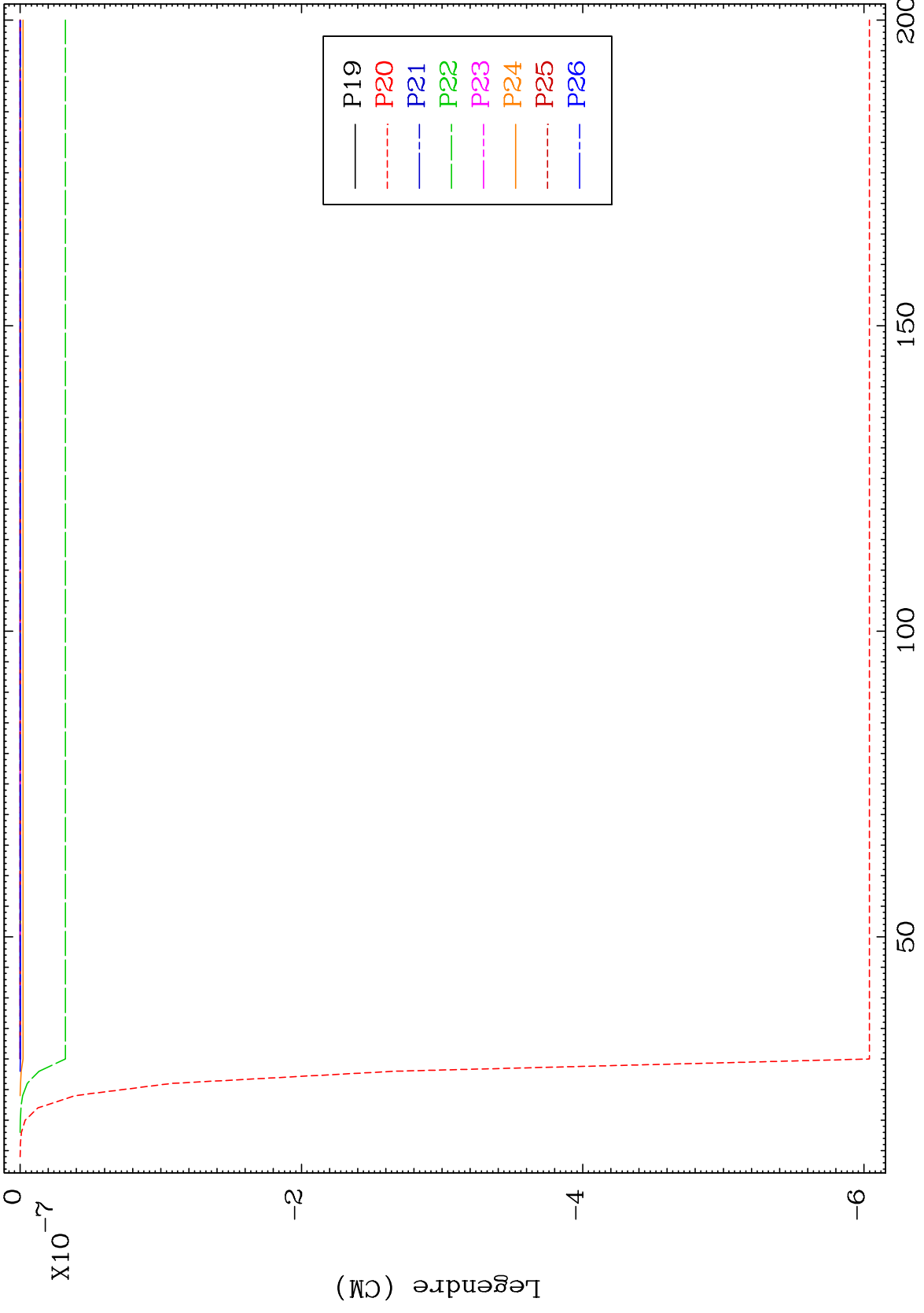


51-Sb-124

Incident Energy (MeV)

64

MAT 5134 MT= 64 (n,n') Level Legendre Coefficients 51-Sb-124

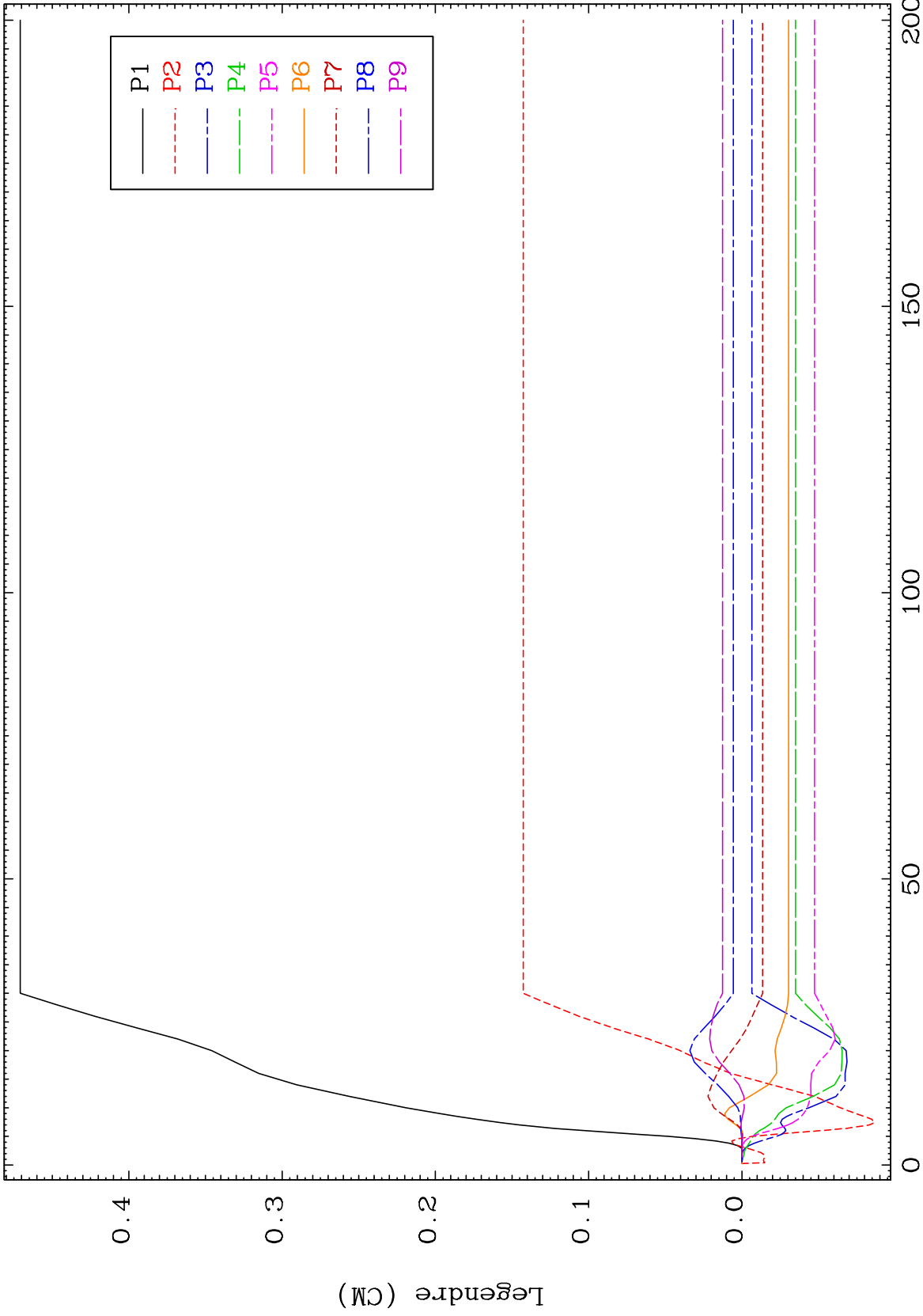


65 51-Sb-124

MAT 5134

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

51-Sb-124



66

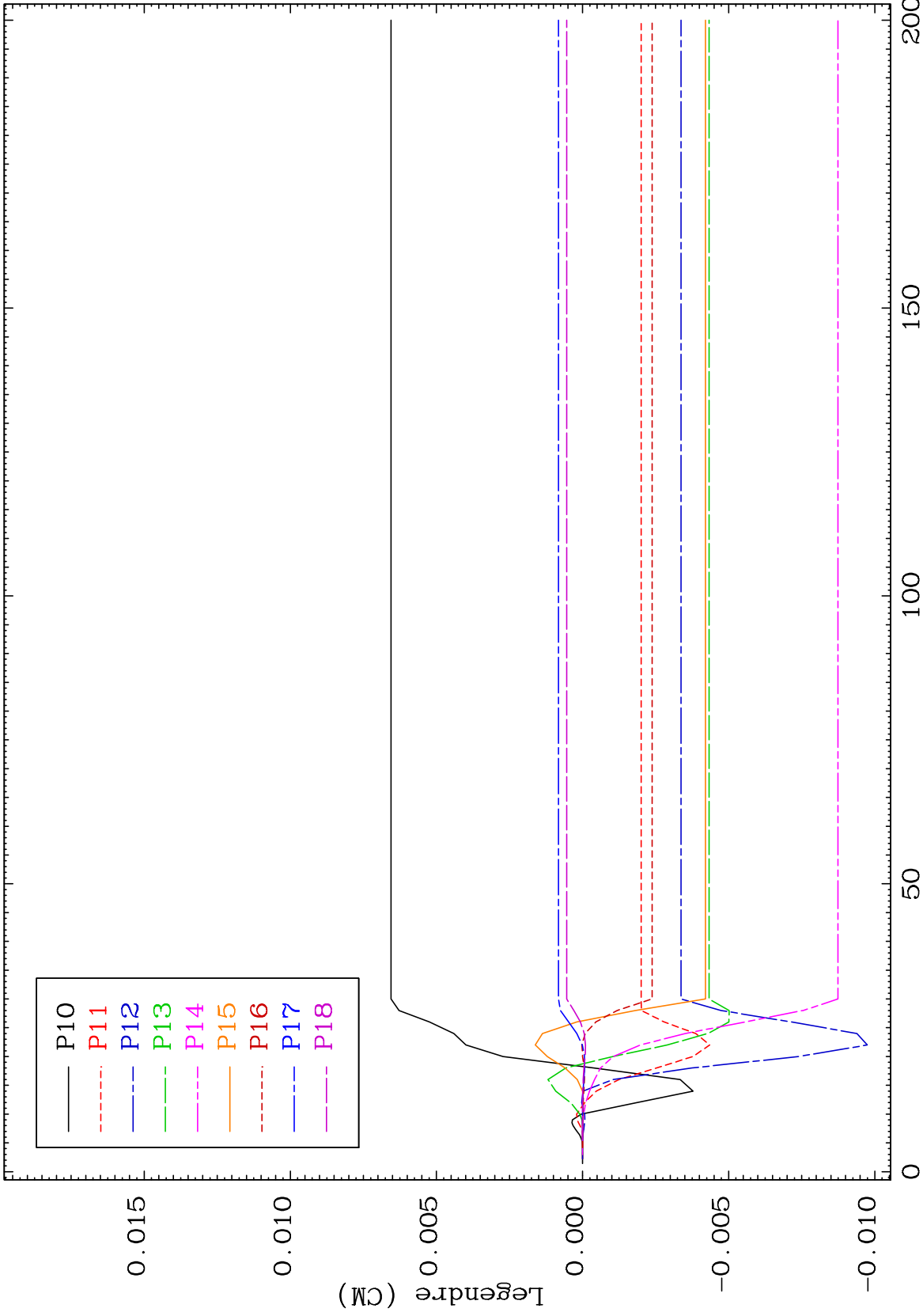
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

51-Sb-124



67

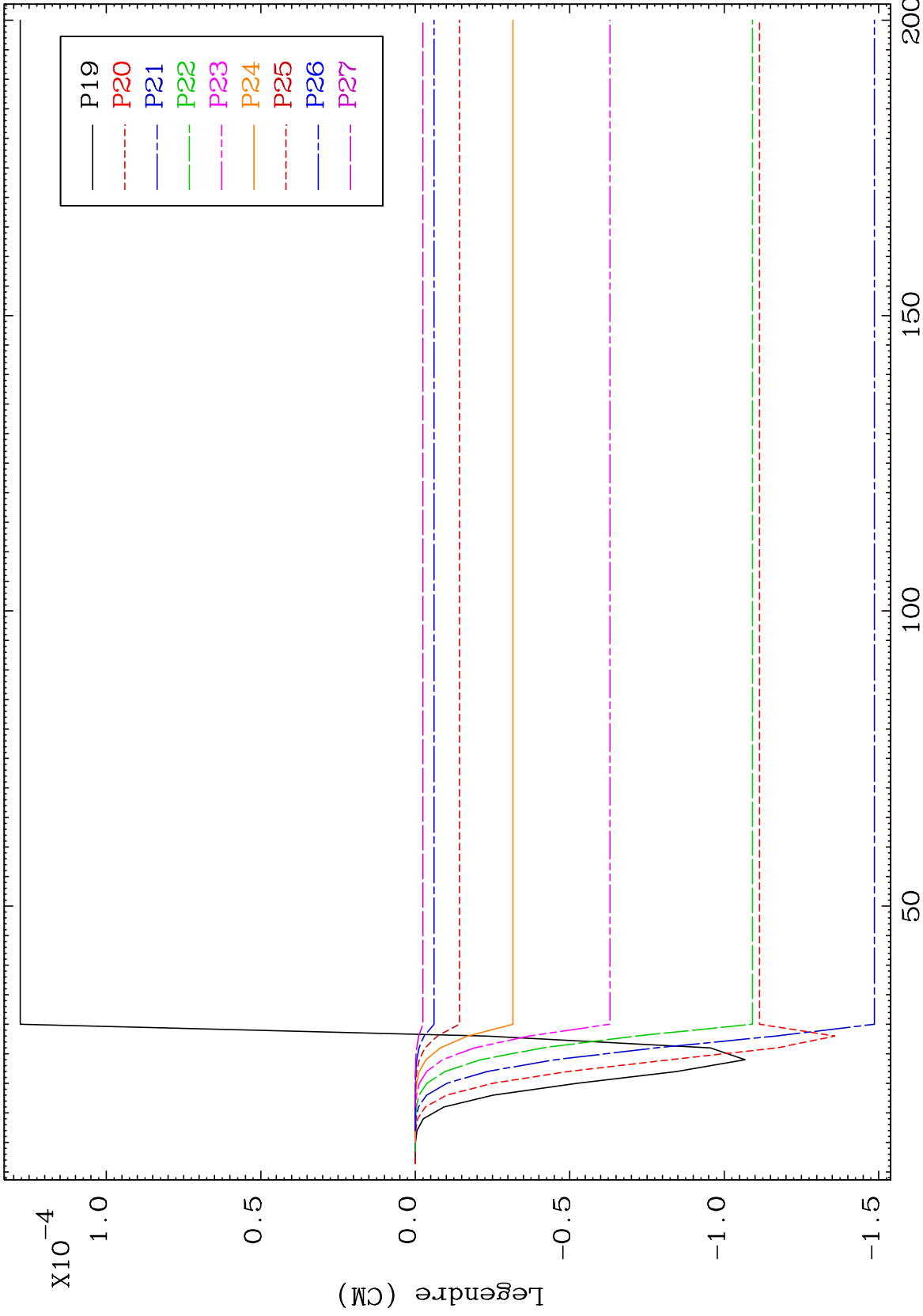
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

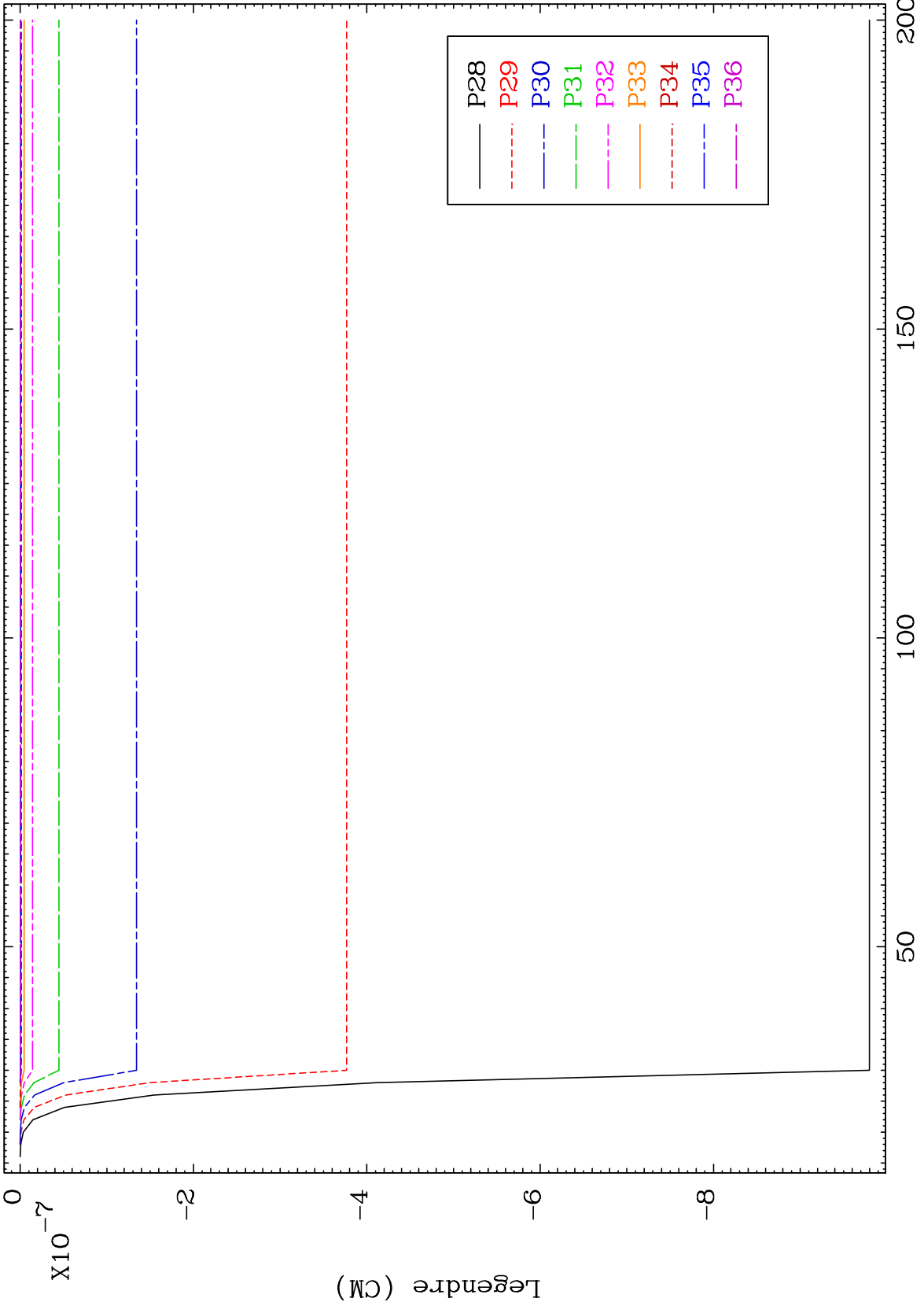
51-Sb-124



68

51-Sb-124

MAT 5134 MT= 65 (n,n') Level Legendre Coefficients 51-Sb-124

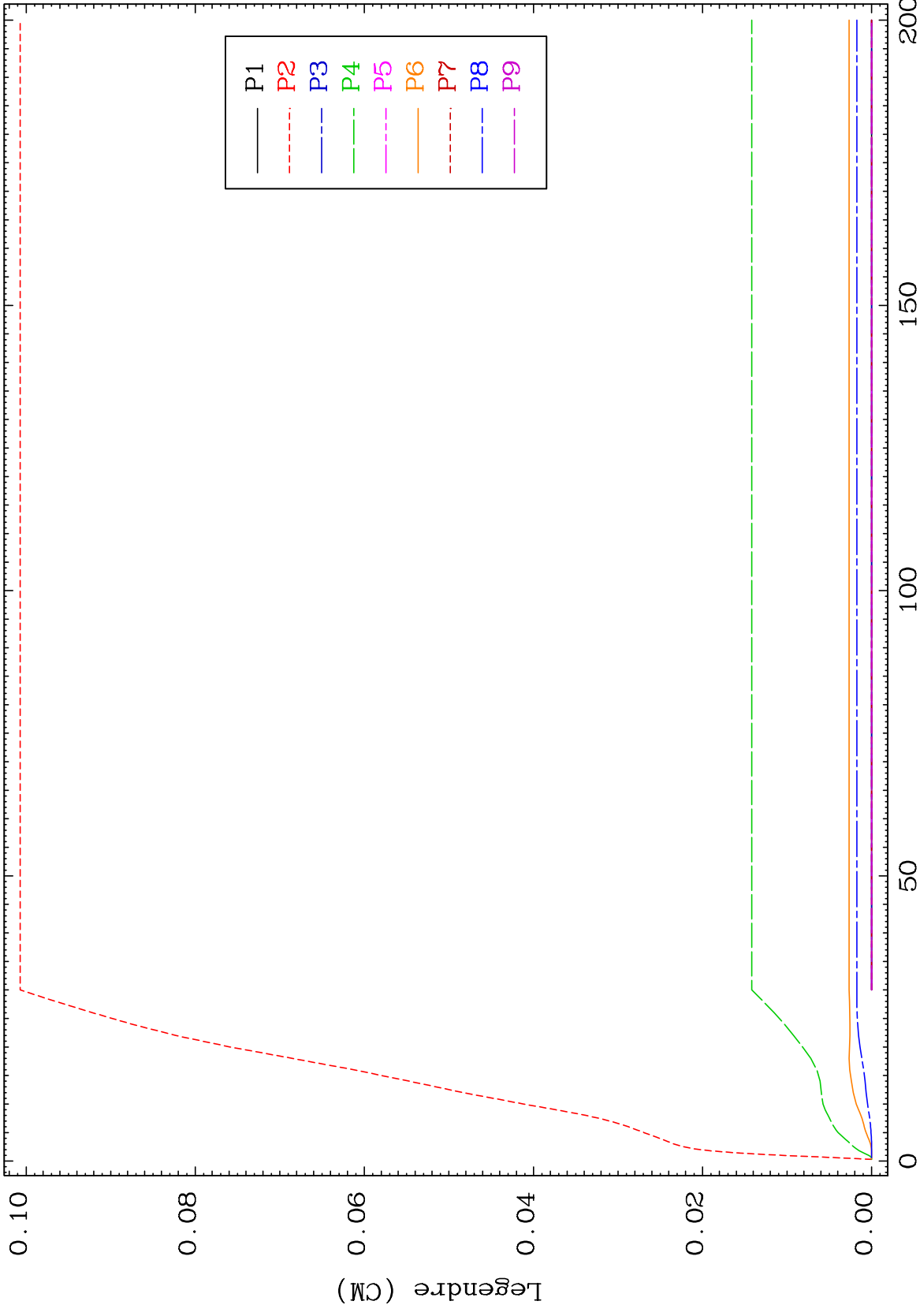


69 51-Sb-124

MAT 5134

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

51-Sb-124



70

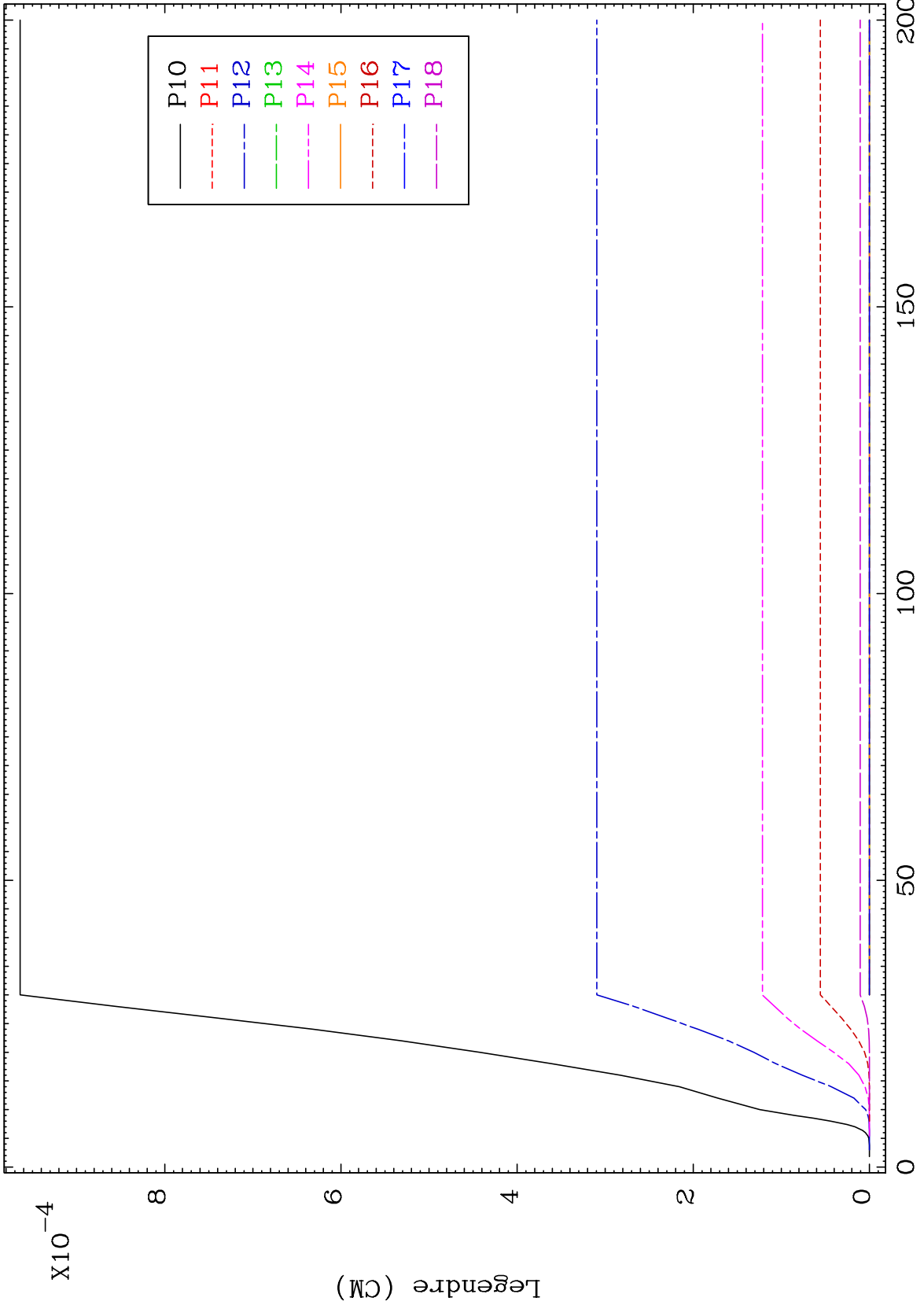
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

51-Sb-124



71

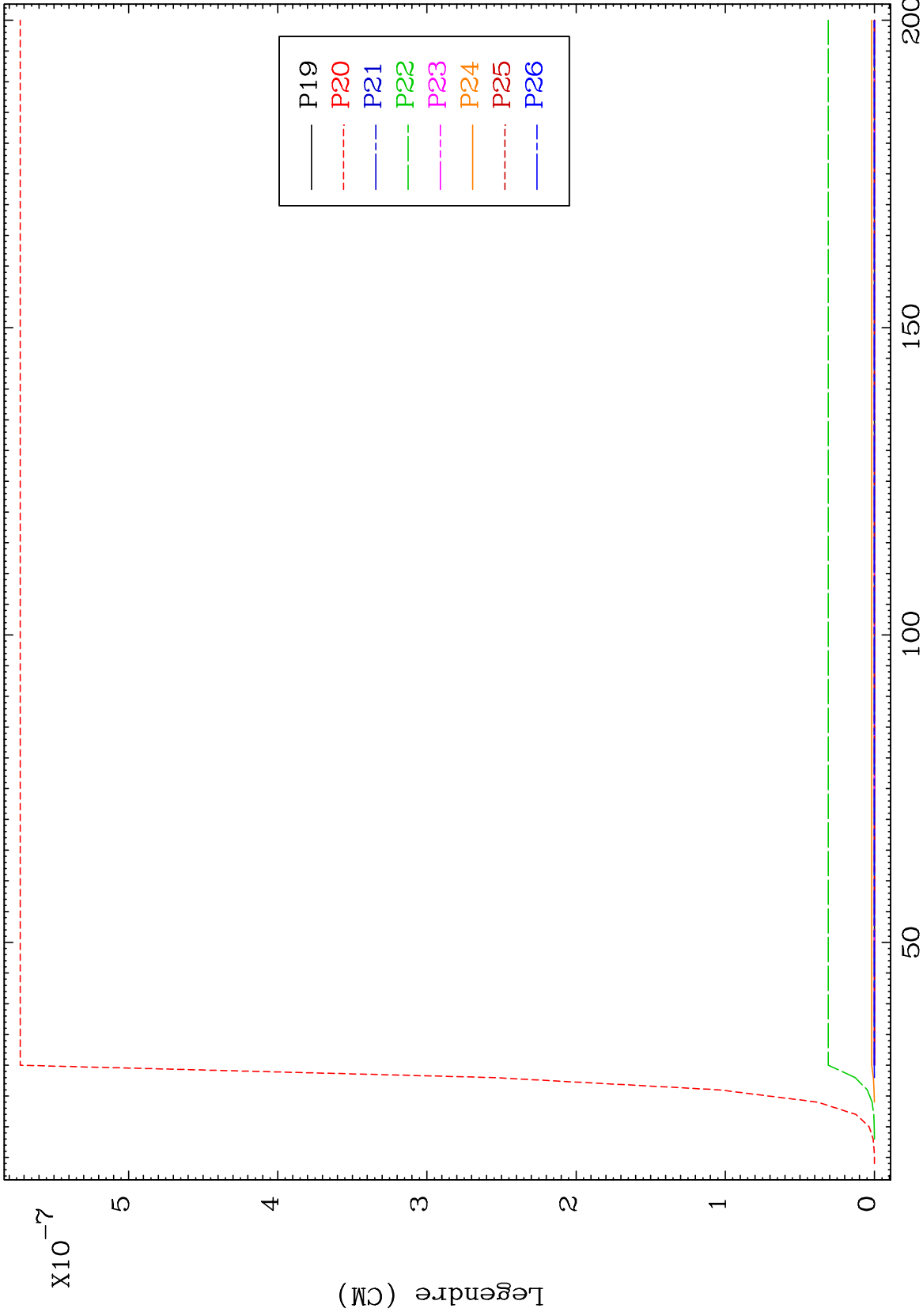
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

51-Sb-124



72

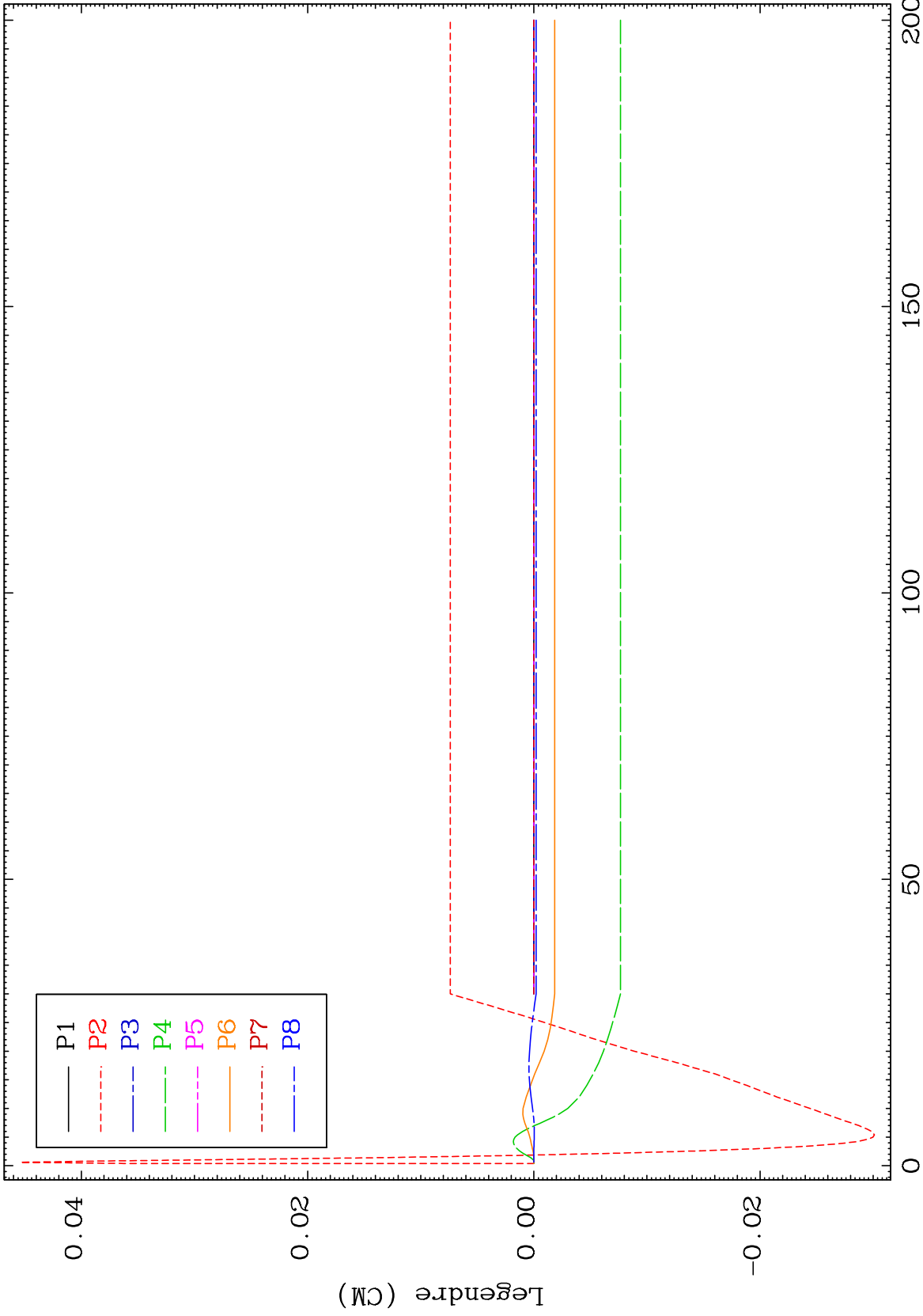
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

51-Sb-124



73

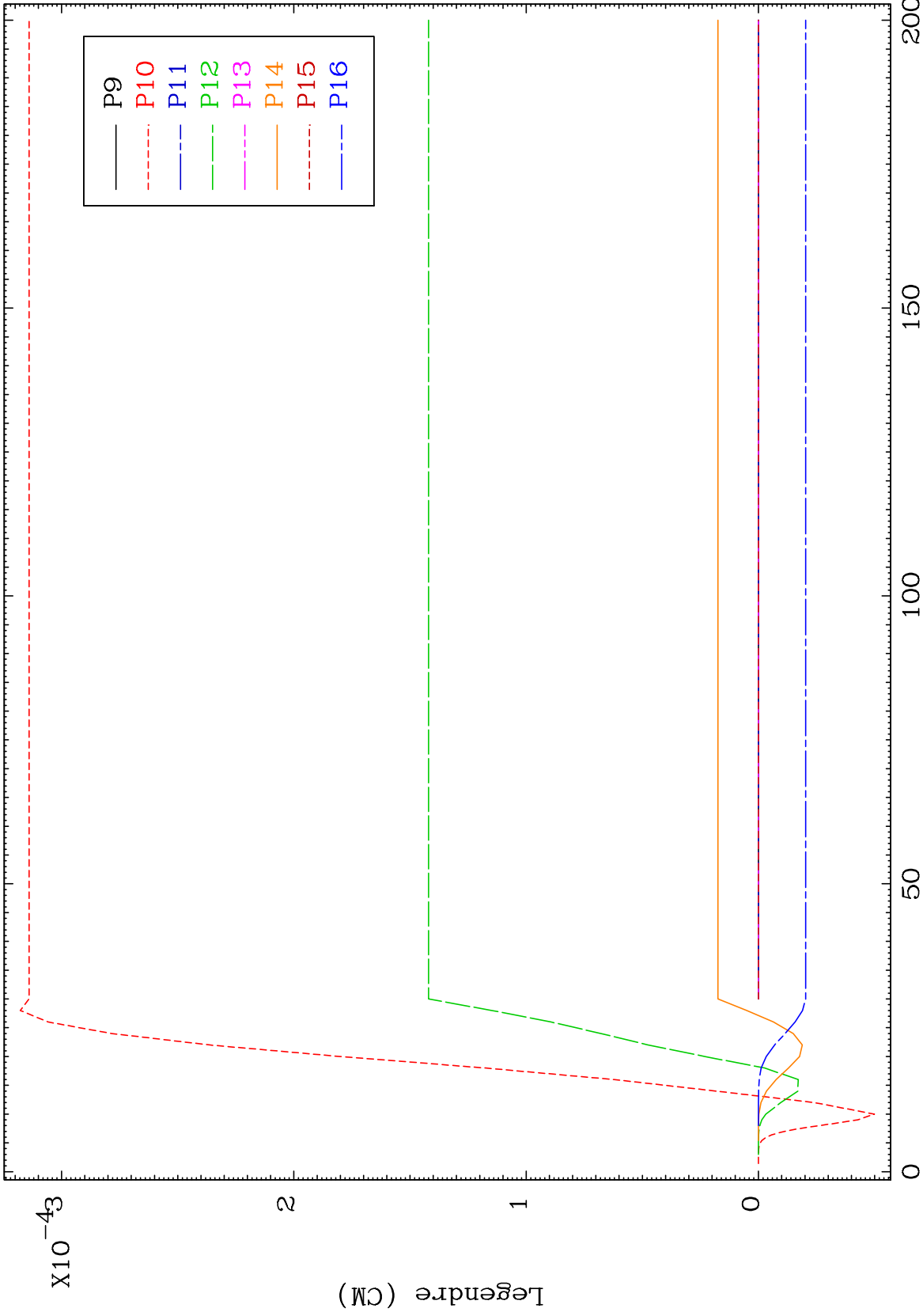
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

51-Sb-124



74

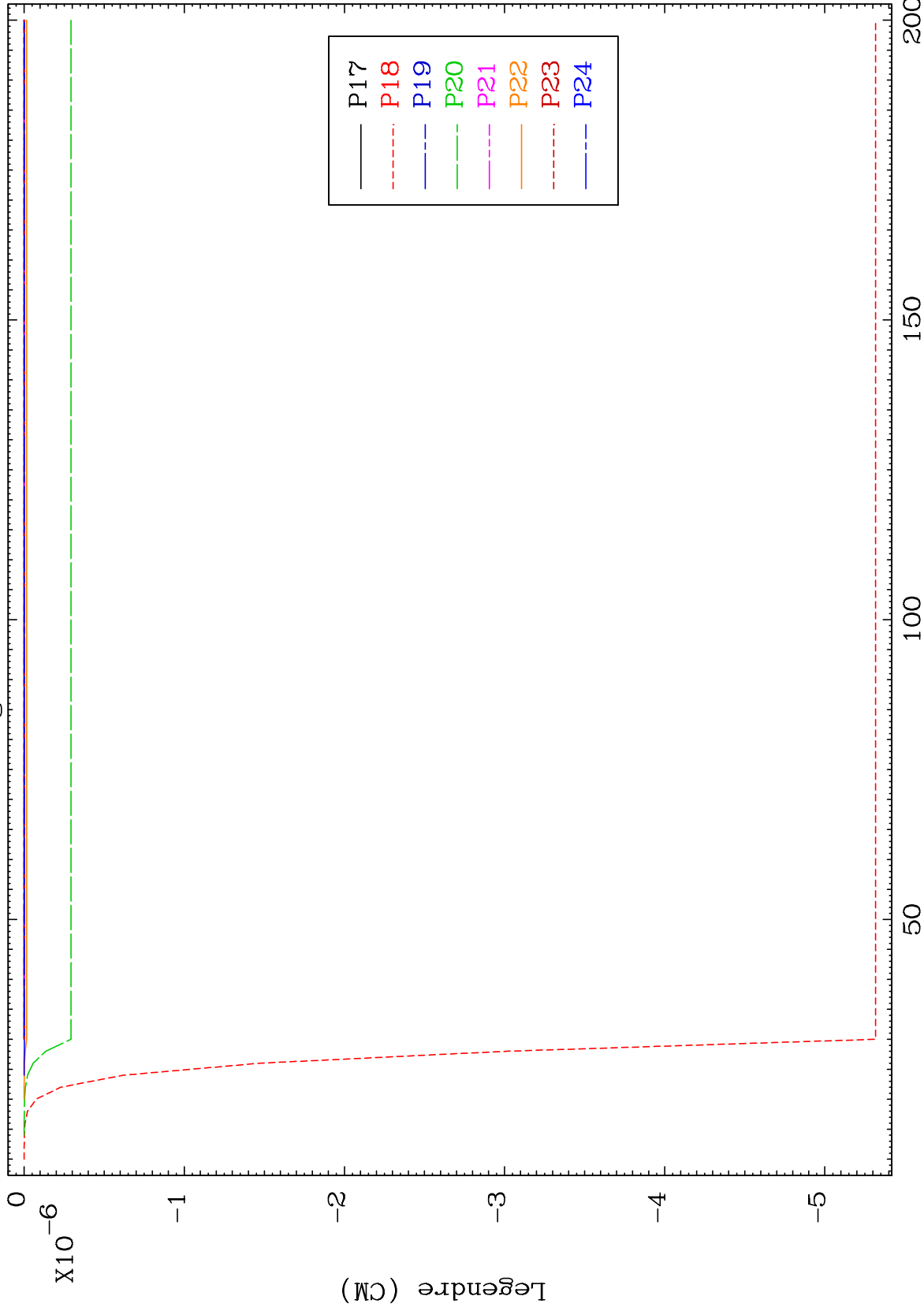
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

51-Sb-124



75

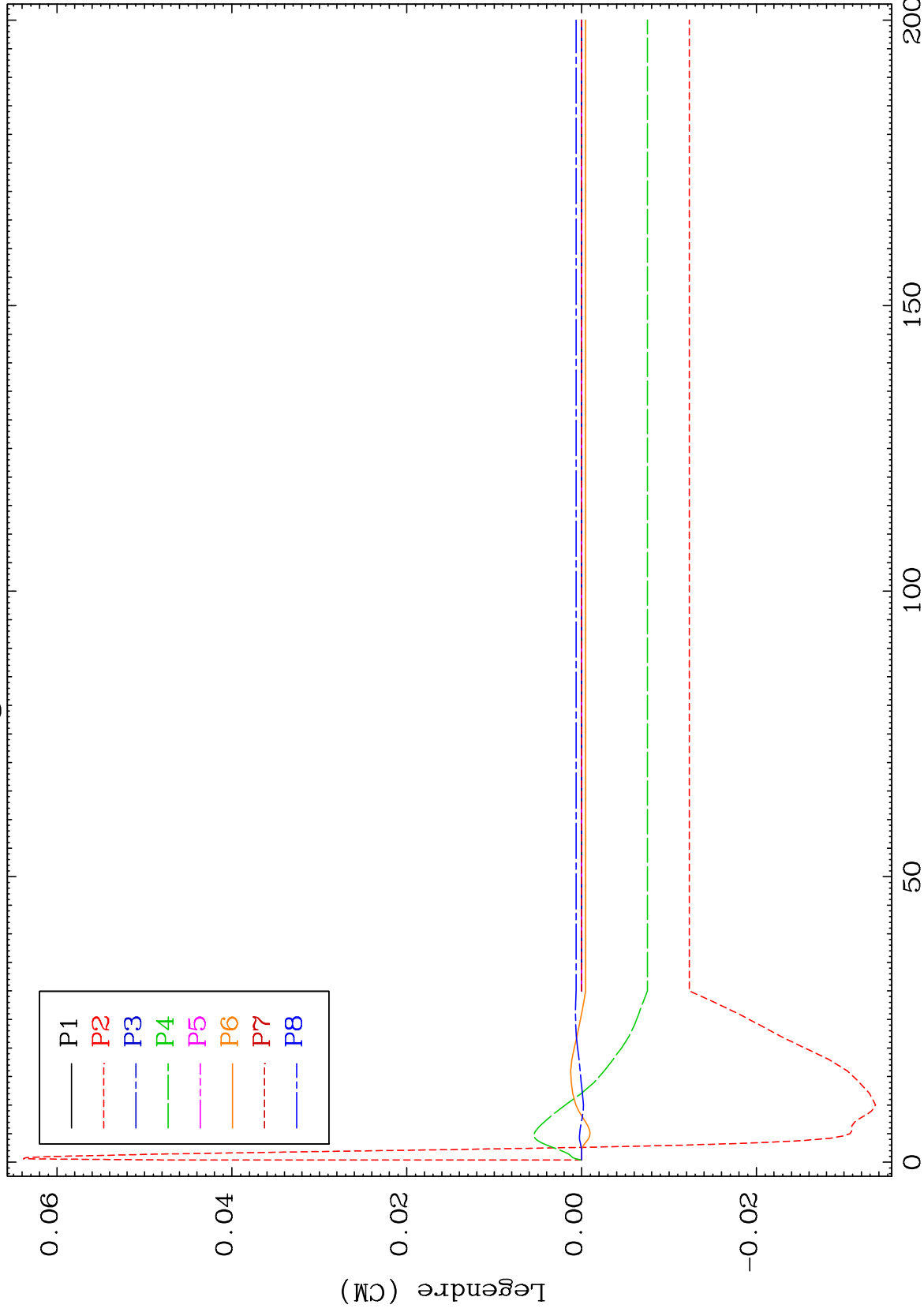
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

51-Sb-124



76

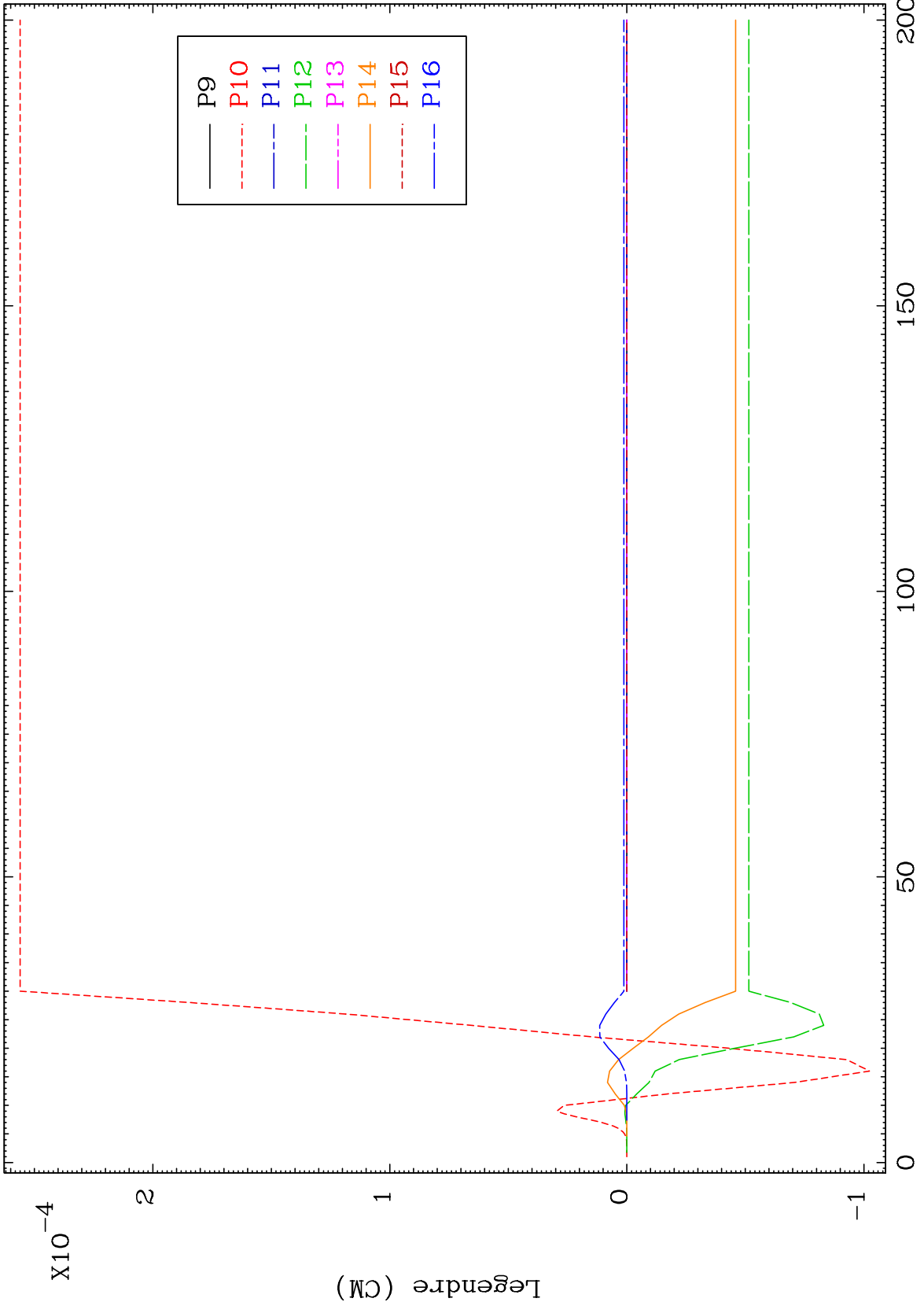
51-Sb-124

200

MAT 5134

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

51-Sb-124

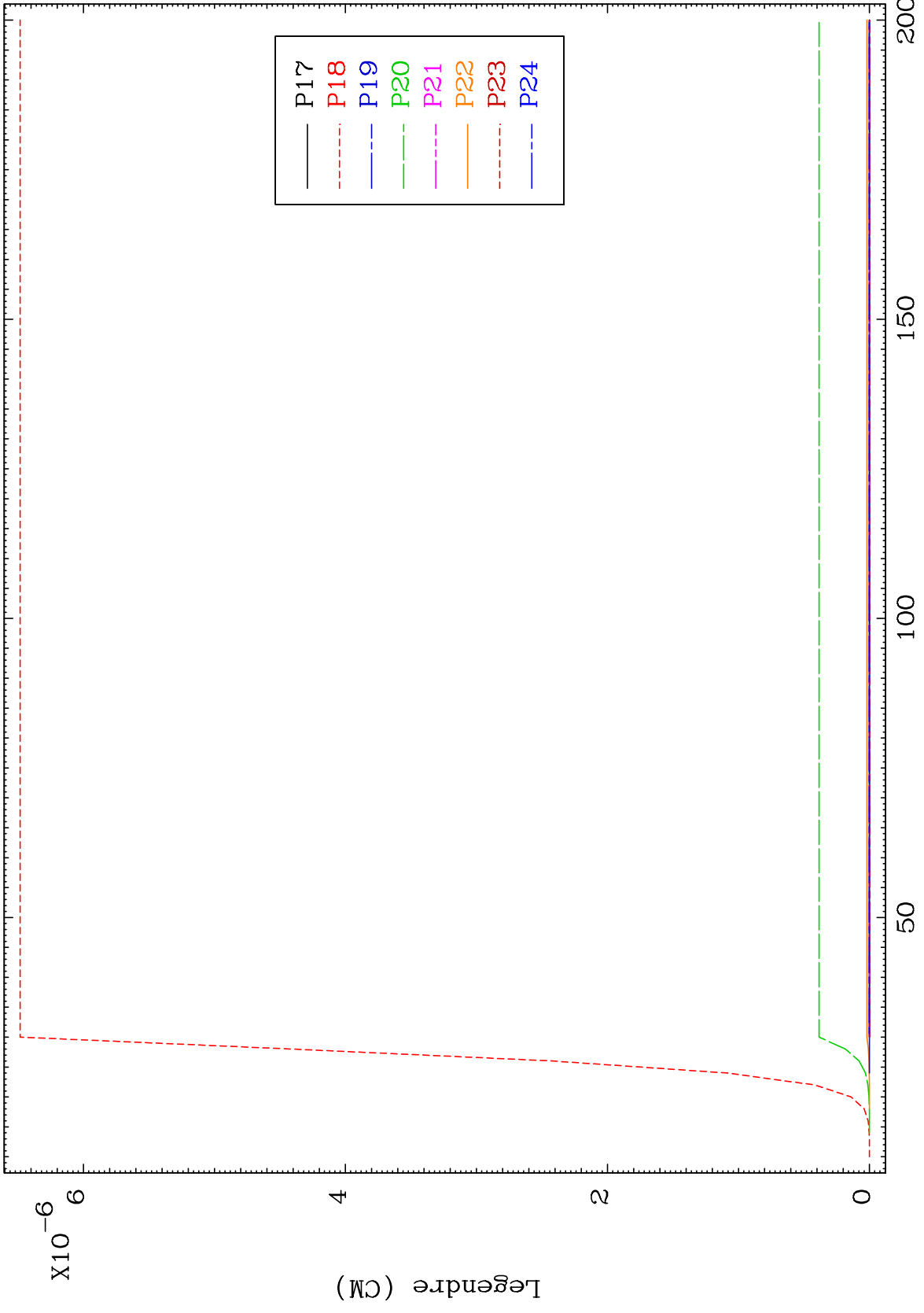


77

Incident Energy (MeV)

51-Sb-124

MAT 5134 MT= 68 (n,n') Level Legendre Coefficients 51-Sb-124

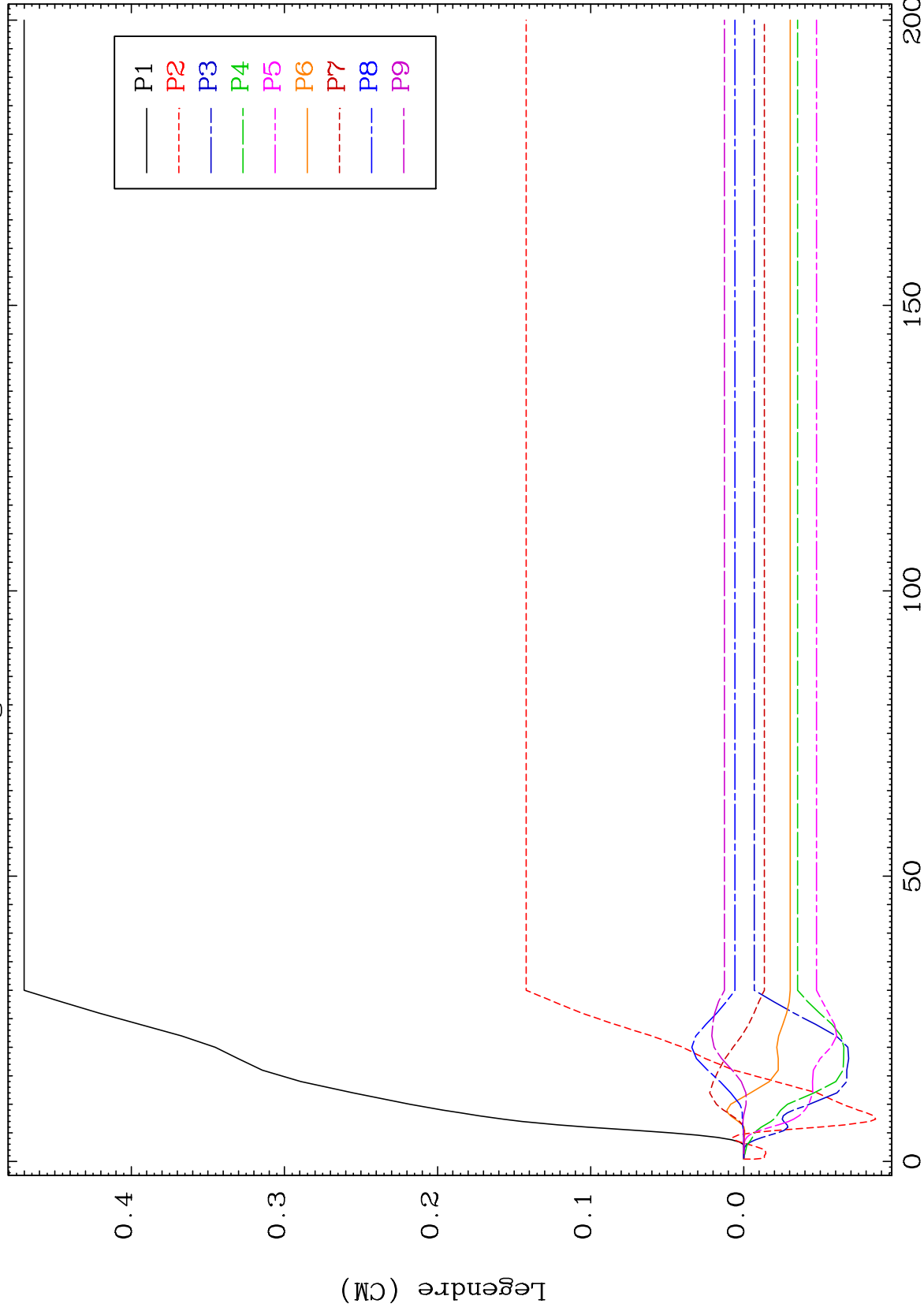


78 51-Sb-124

MAT 5134

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

51-Sb-124



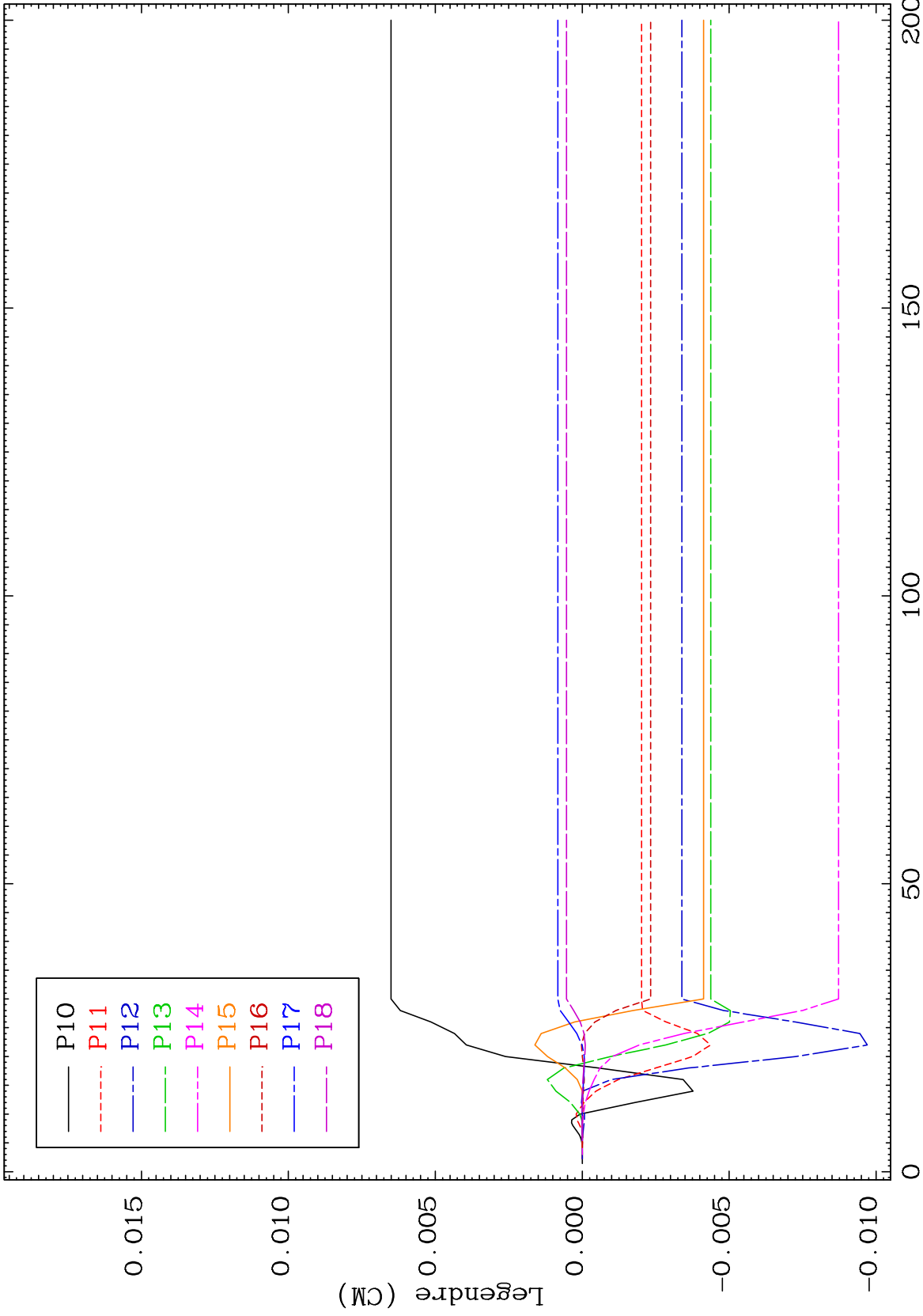
79

51-Sb-124

MAT 5134

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

51-Sb-124



80

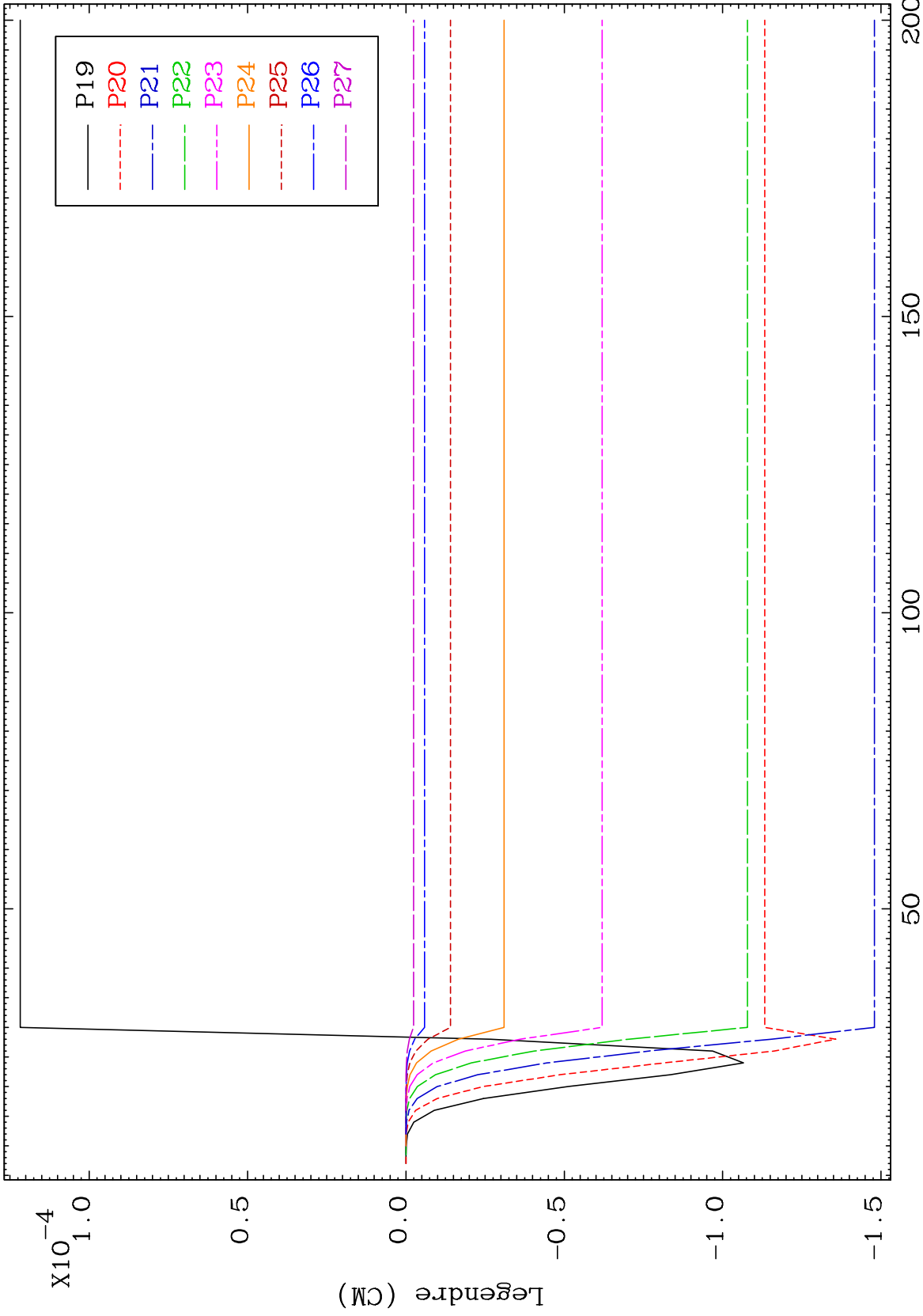
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

51-Sb-124

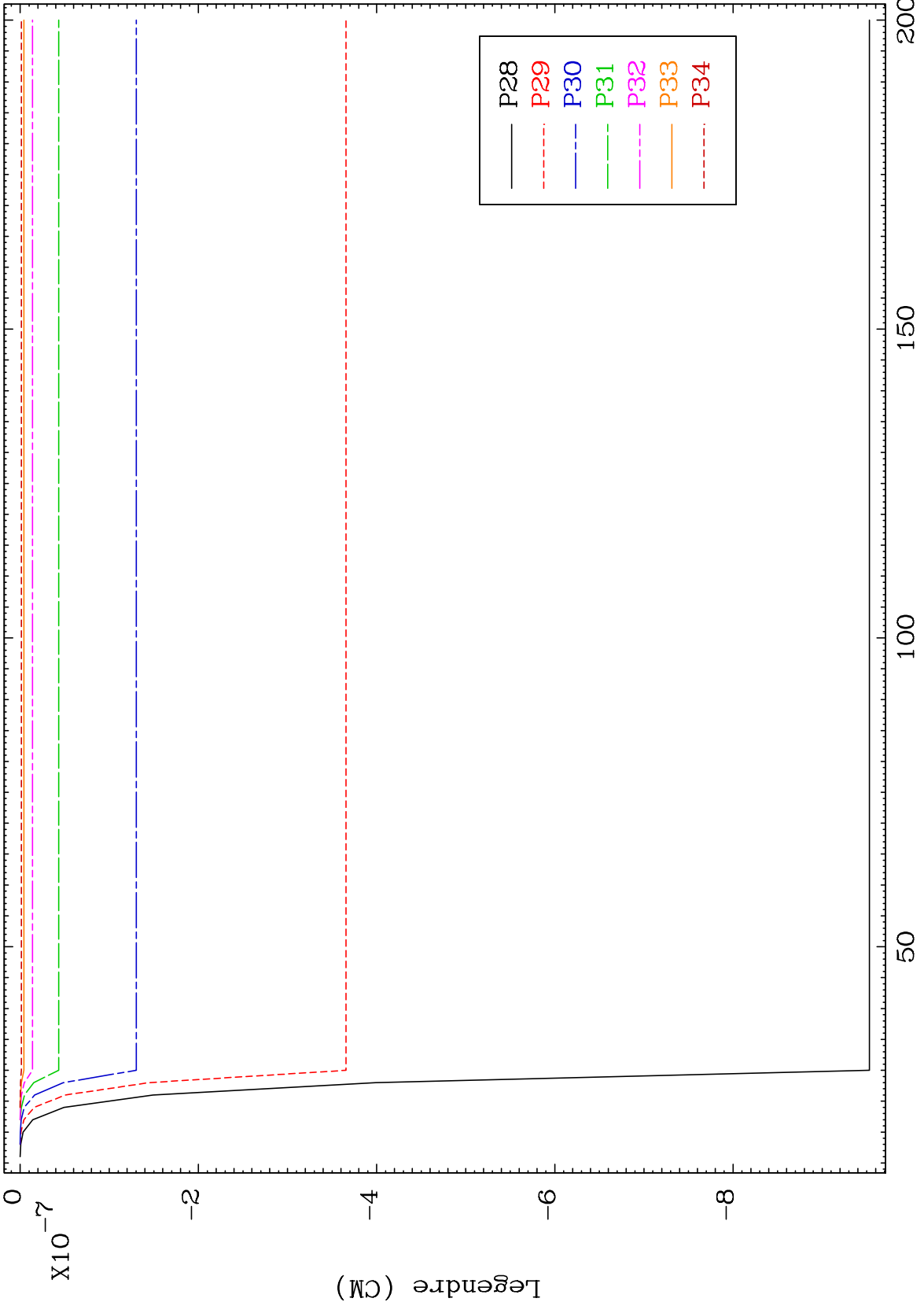


81

Incident Energy (MeV)

51-Sb-124

MAT 5134 MT= 69 (n,n') Level Legendre Coefficients 51-Sb-124

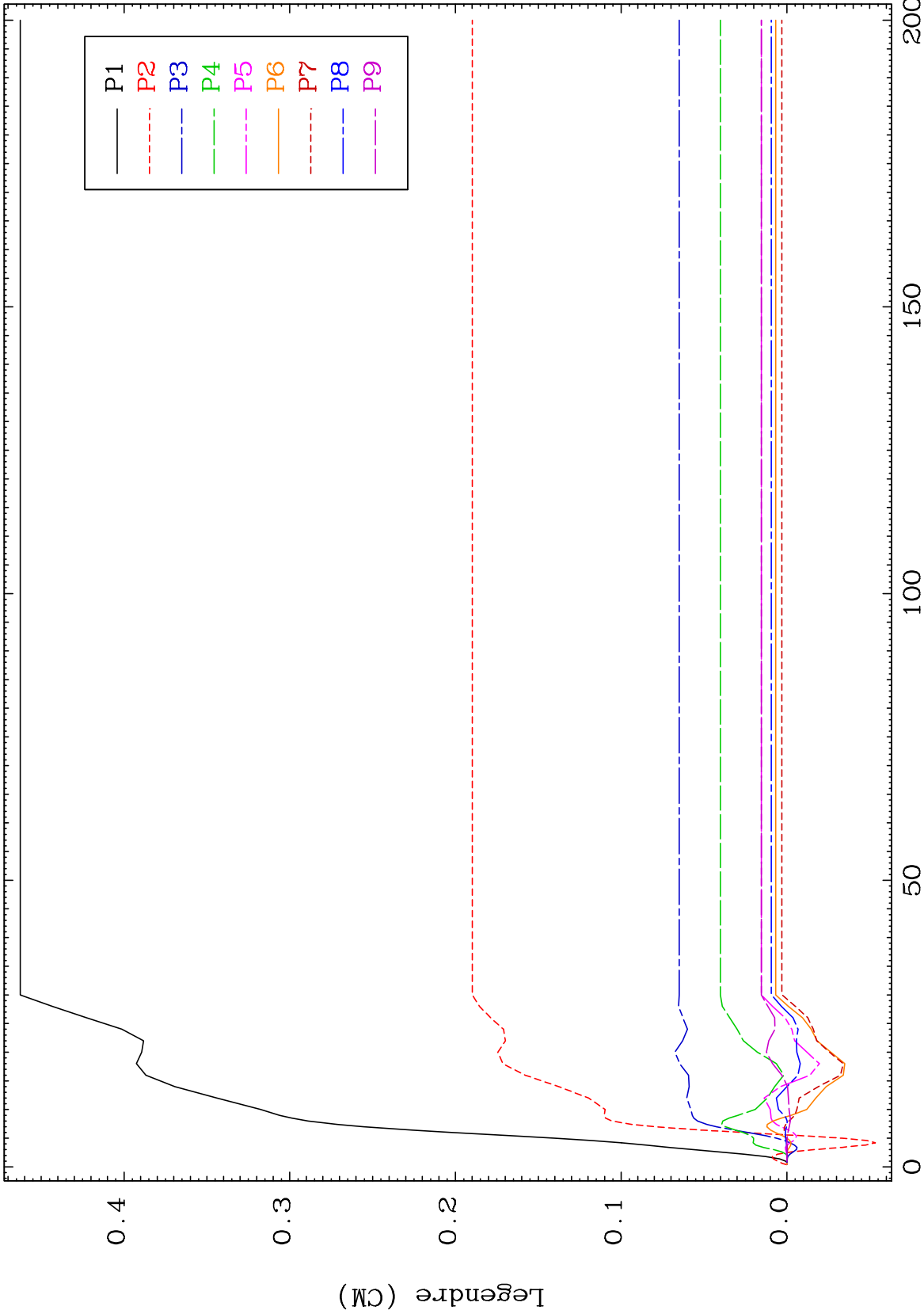


82 51-Sb-124

MAT 5134

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

51-Sb-124



83

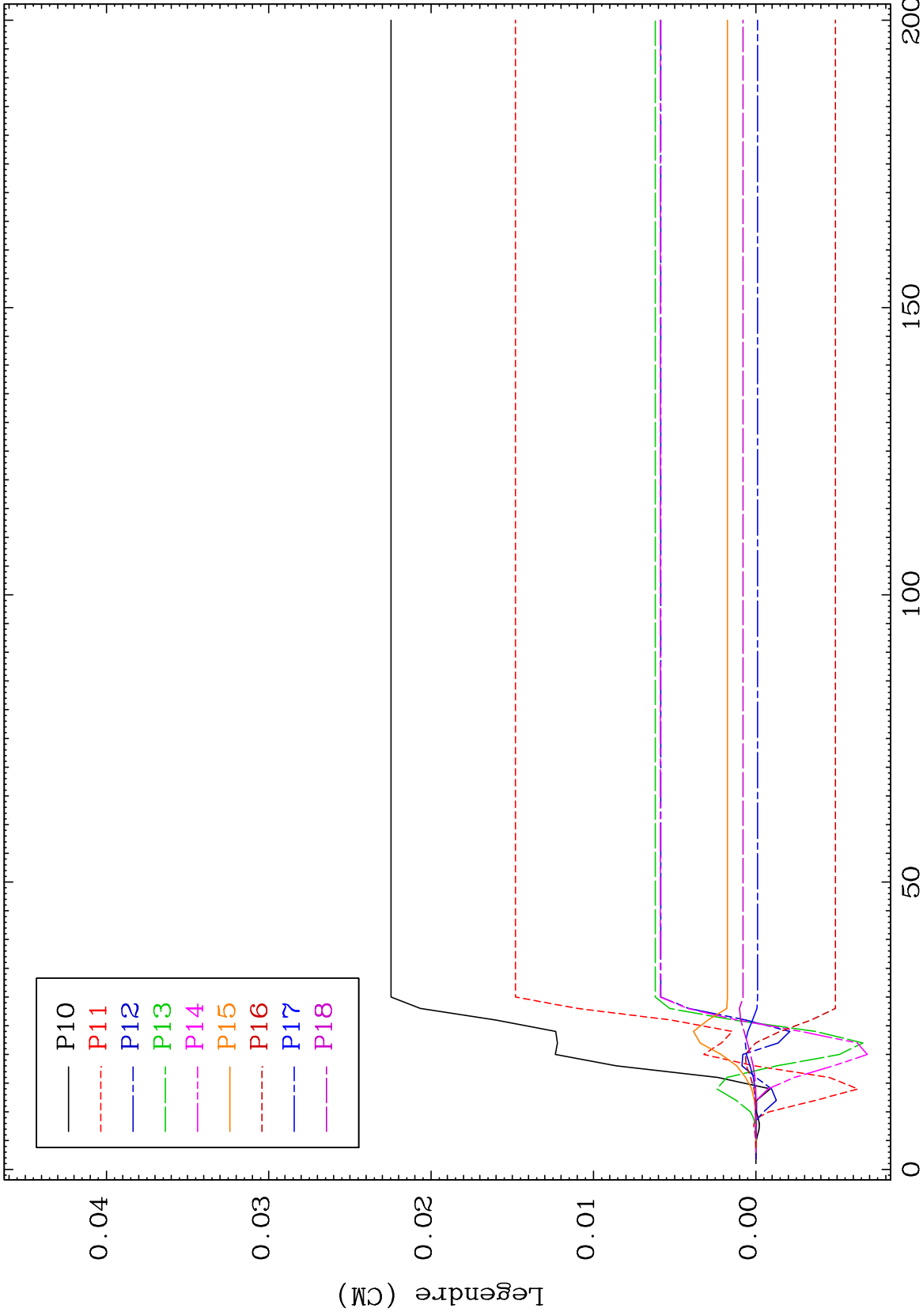
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

51-Sb-124



84

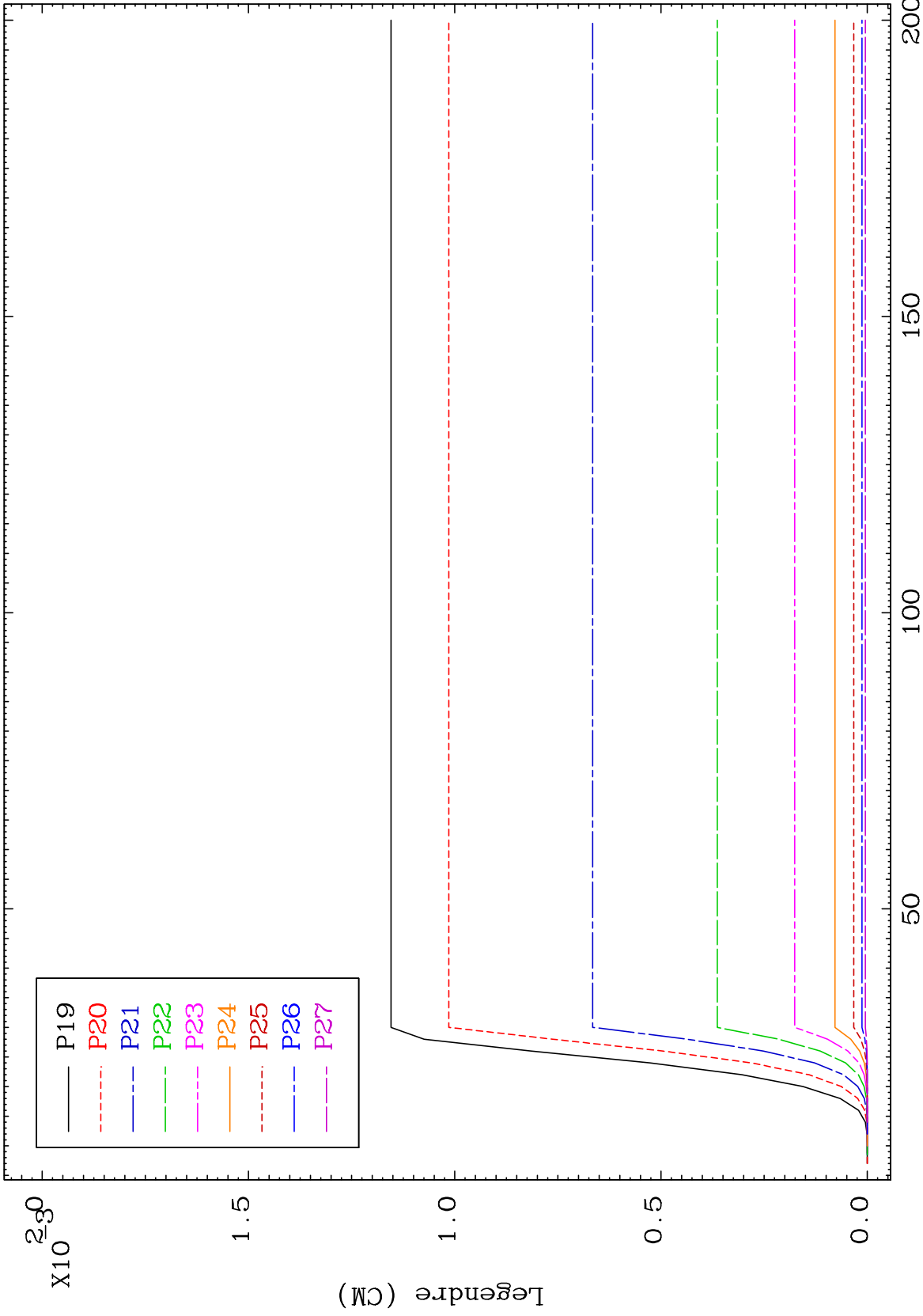
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

51-Sb-124



85

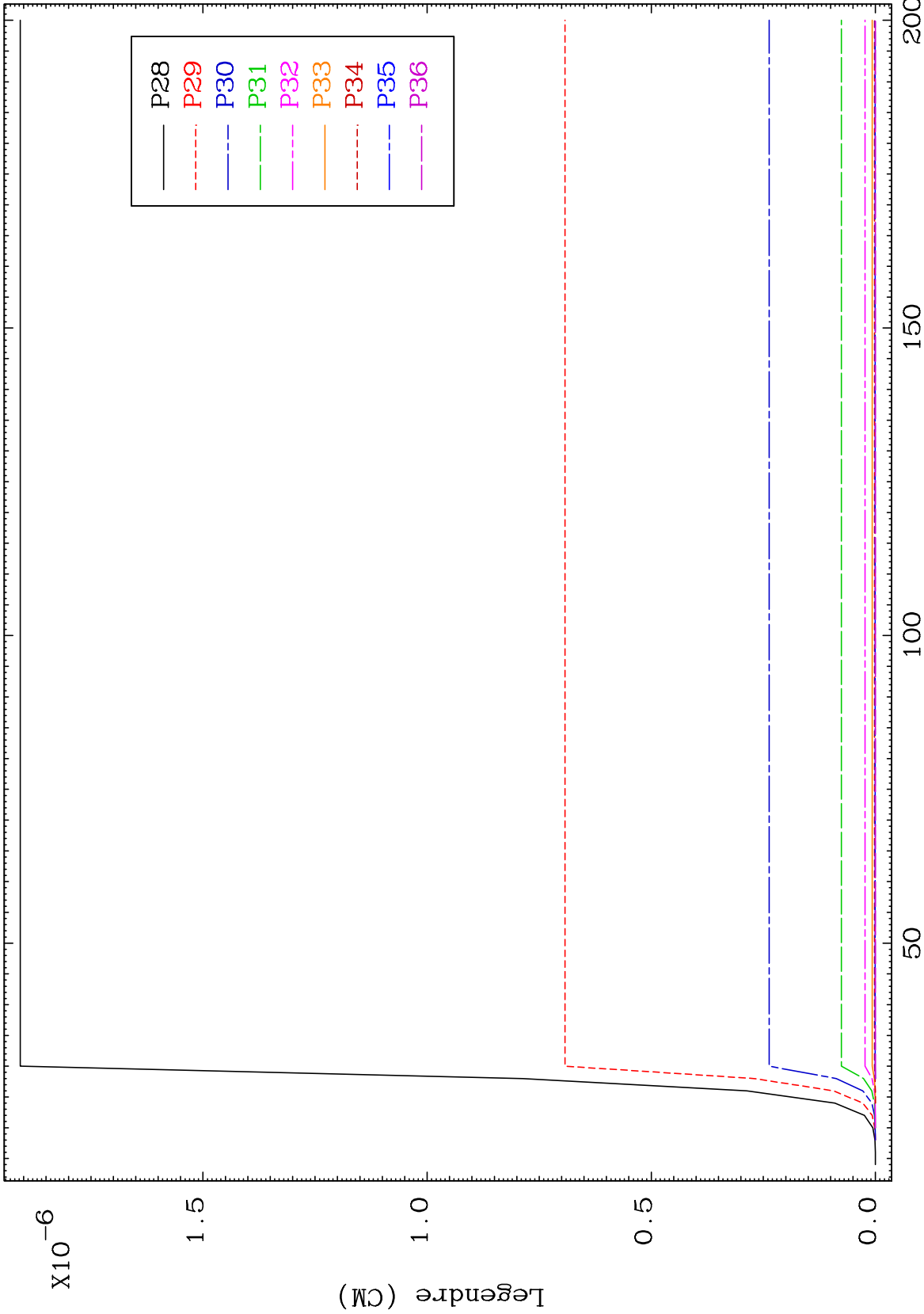
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

51-Sb-124



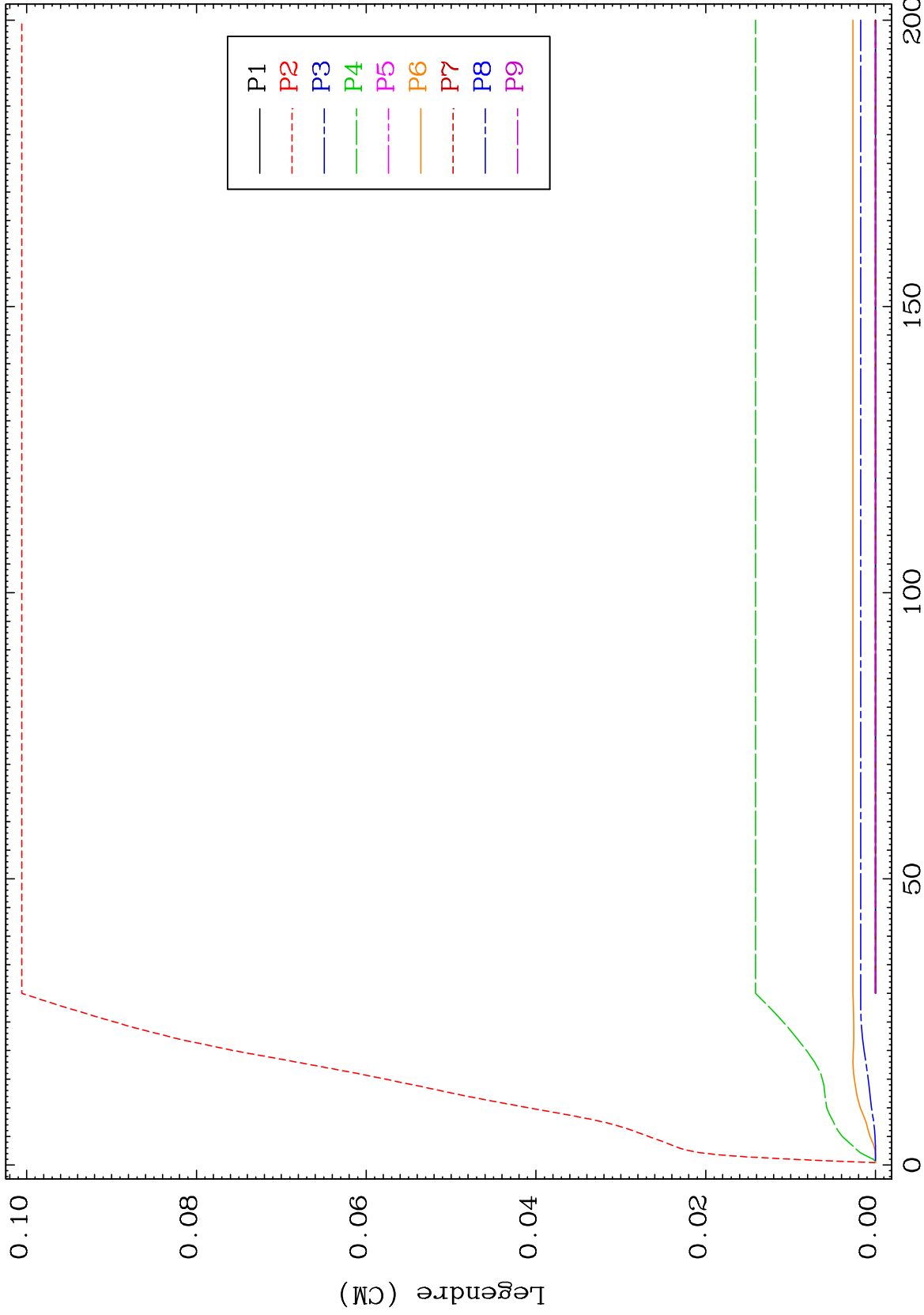
86

51-Sb-124

MAT 5134

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

51-Sb-124



87

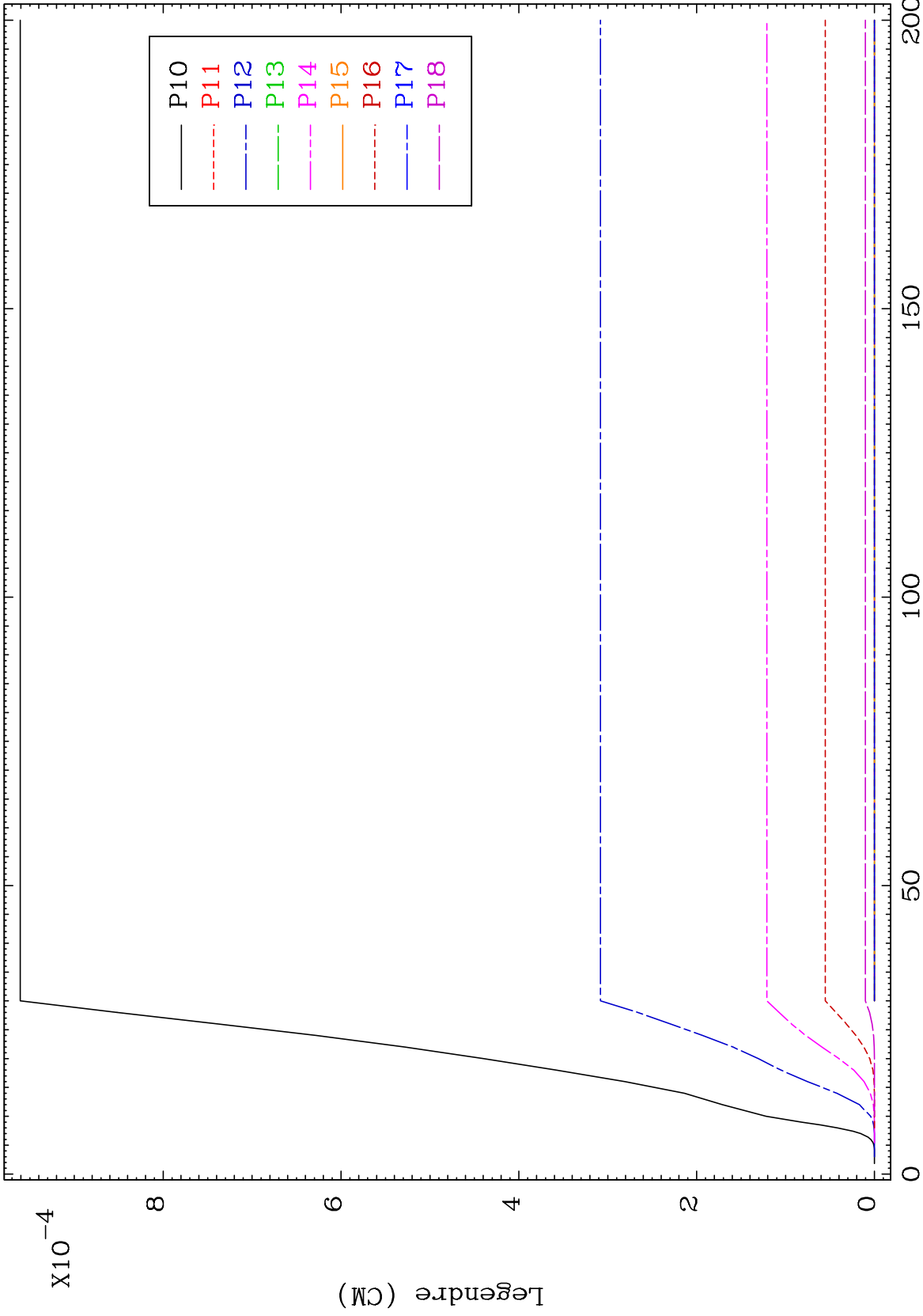
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

51-Sb-124



88

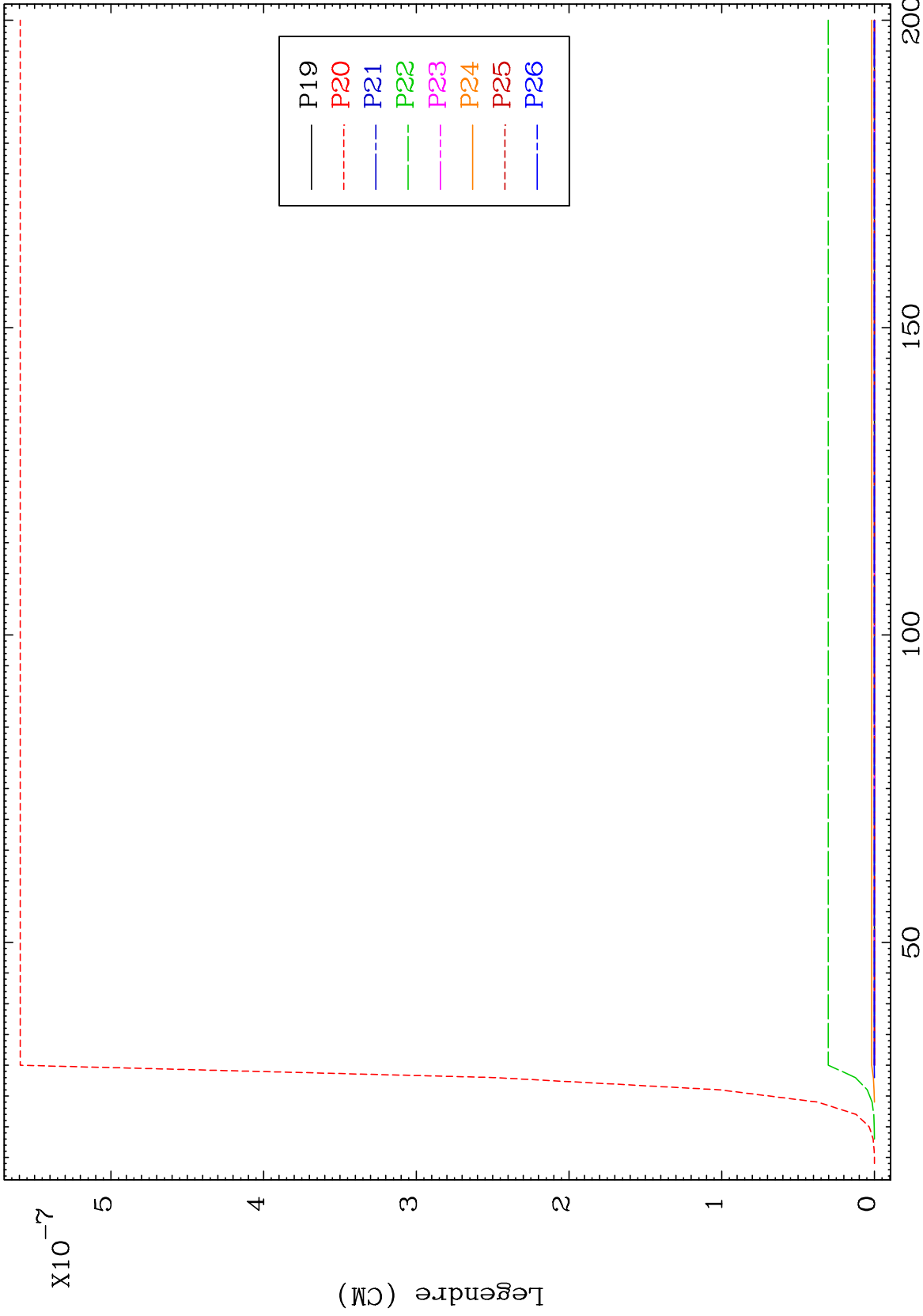
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

51-Sb-124



89

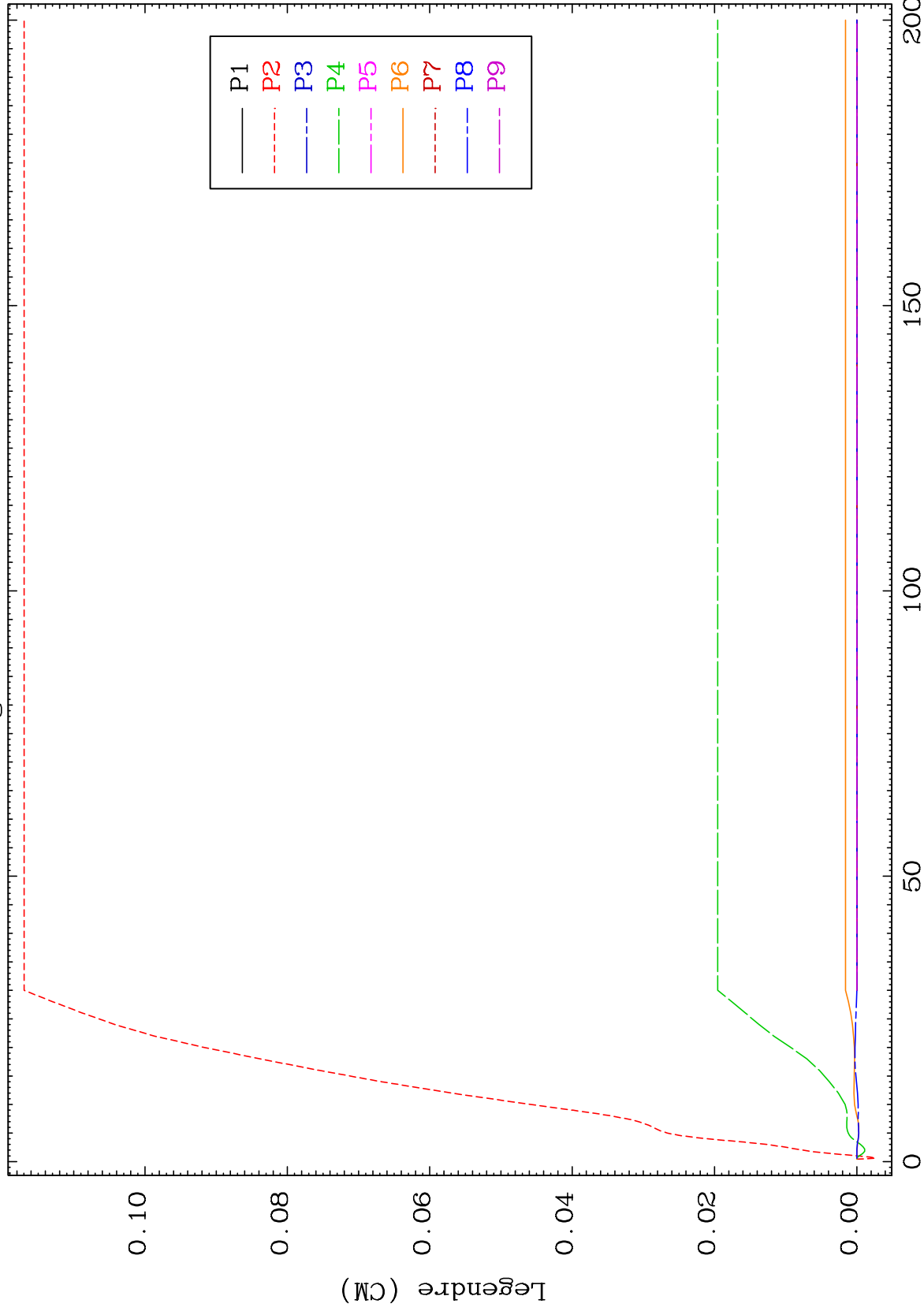
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

51-Sb-124



90

0

50

100

150

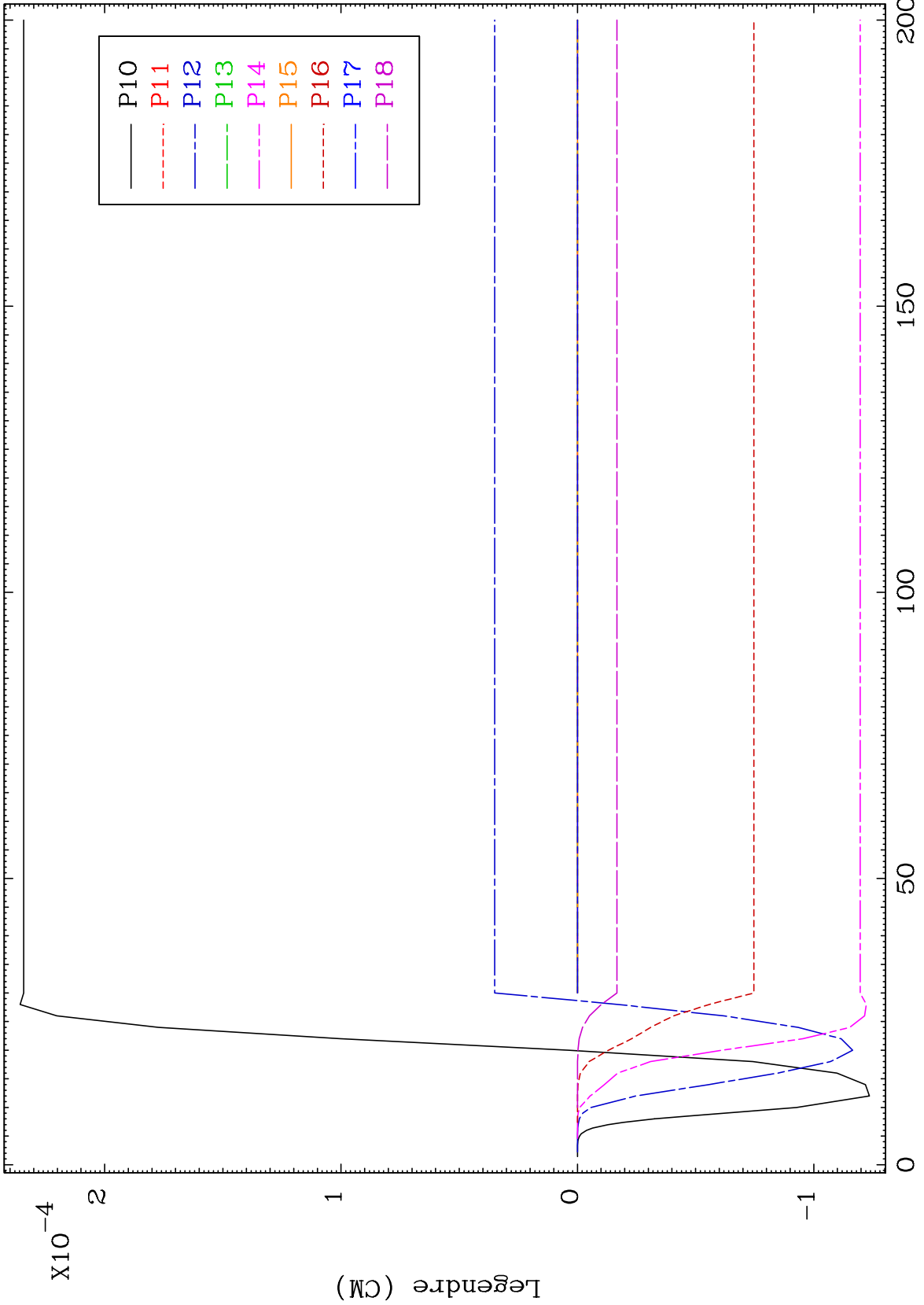
200

51-Sb-124

MAT 5134

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

51-Sb-124



91

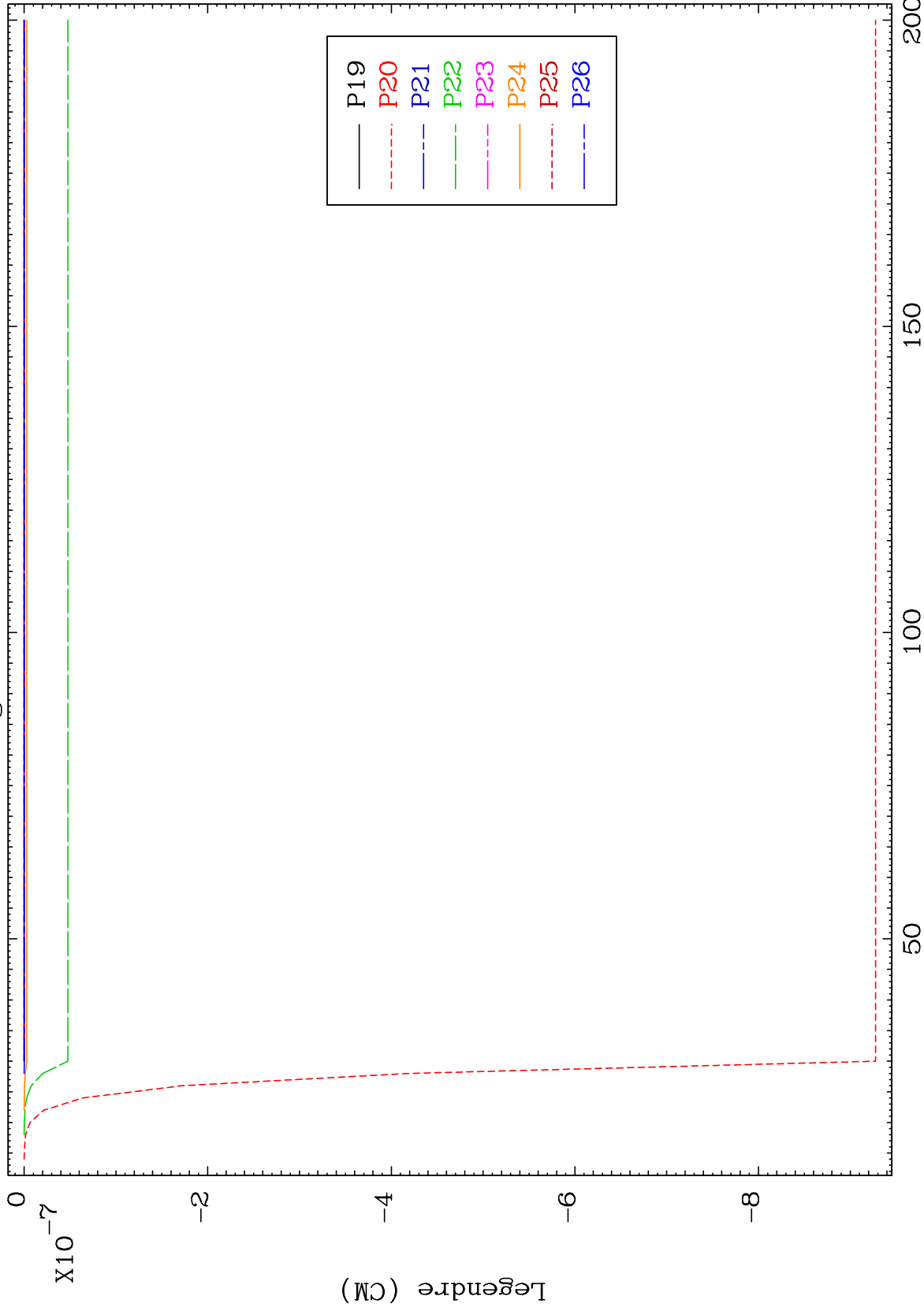
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

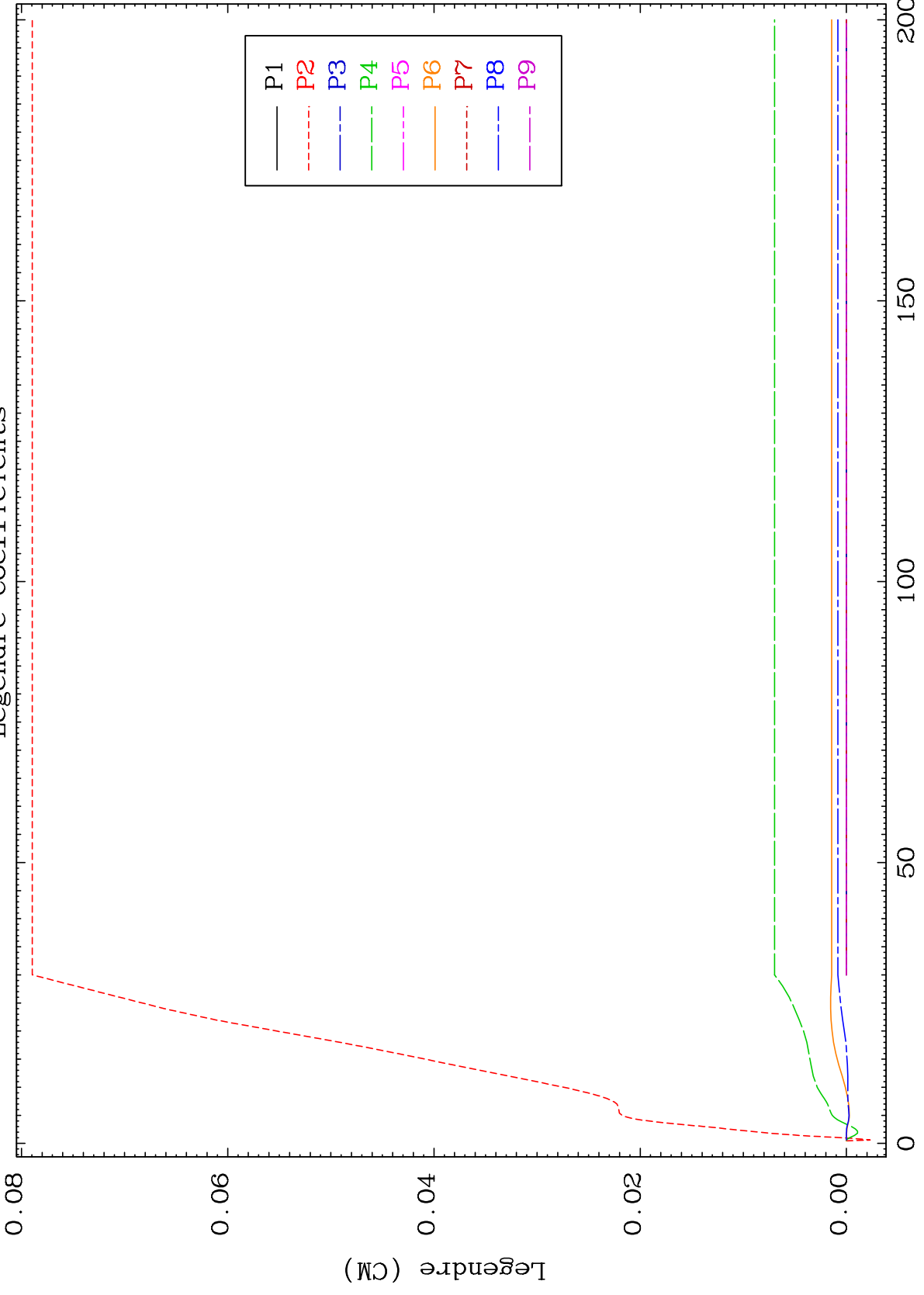
51-Sb-124



92

51-Sb-124

MAT 5134 MT= 73 (n,n') Level Legendre Coefficients 51-Sb-124

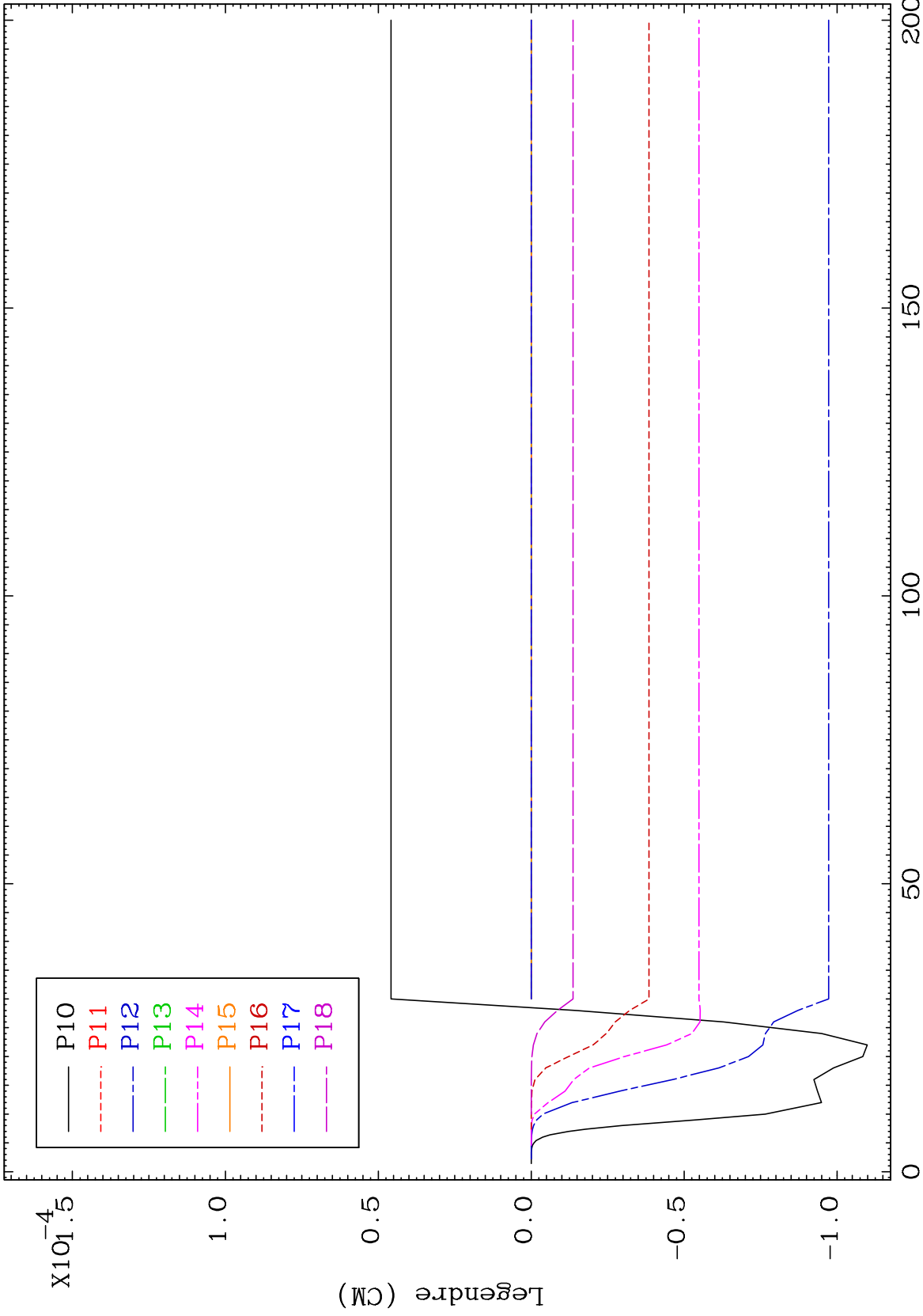


93 51-Sb-124

MAT 5134

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

51-Sb-124



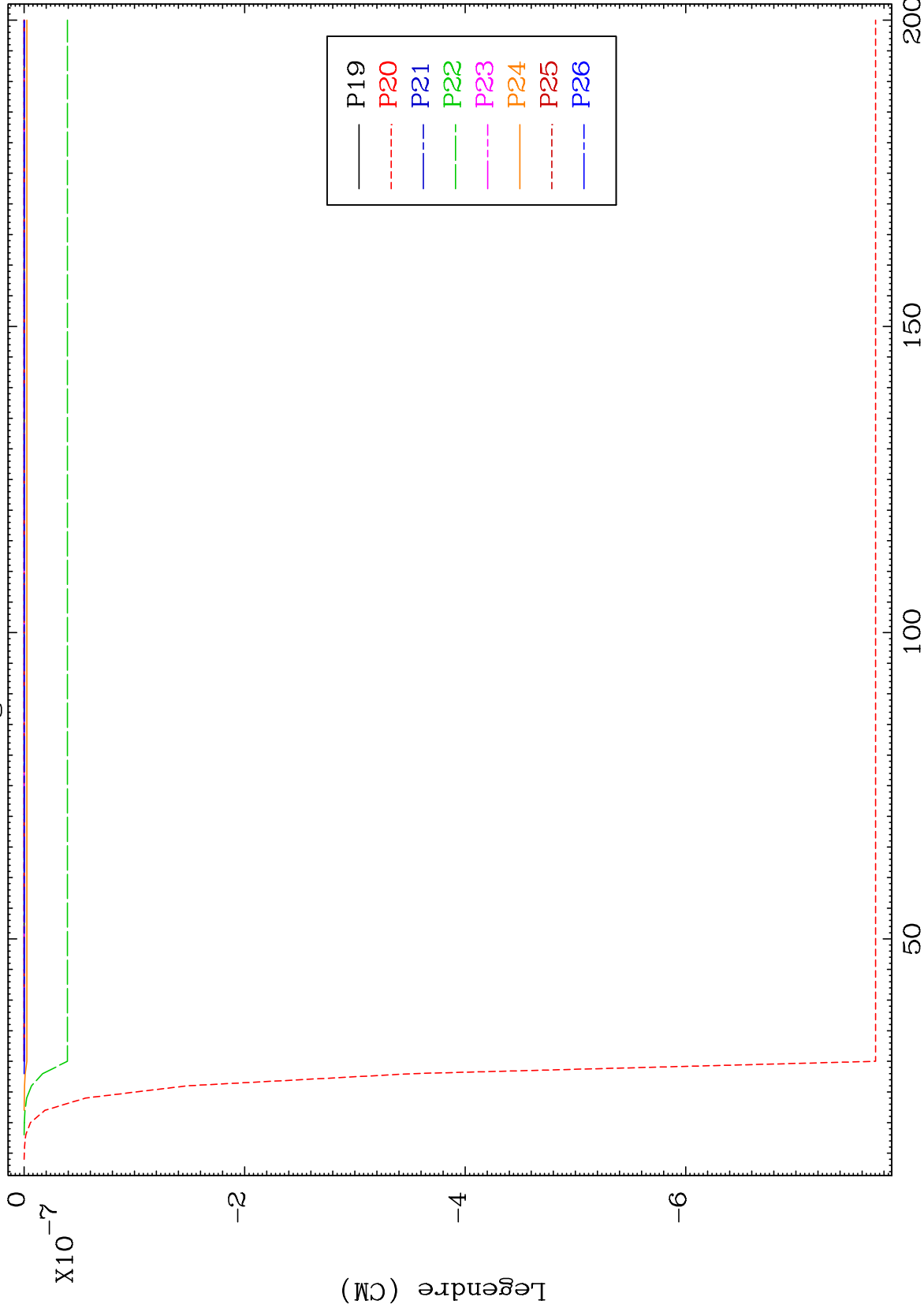
94

51-Sb-124

MAT 5134

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

51-Sb-124



95

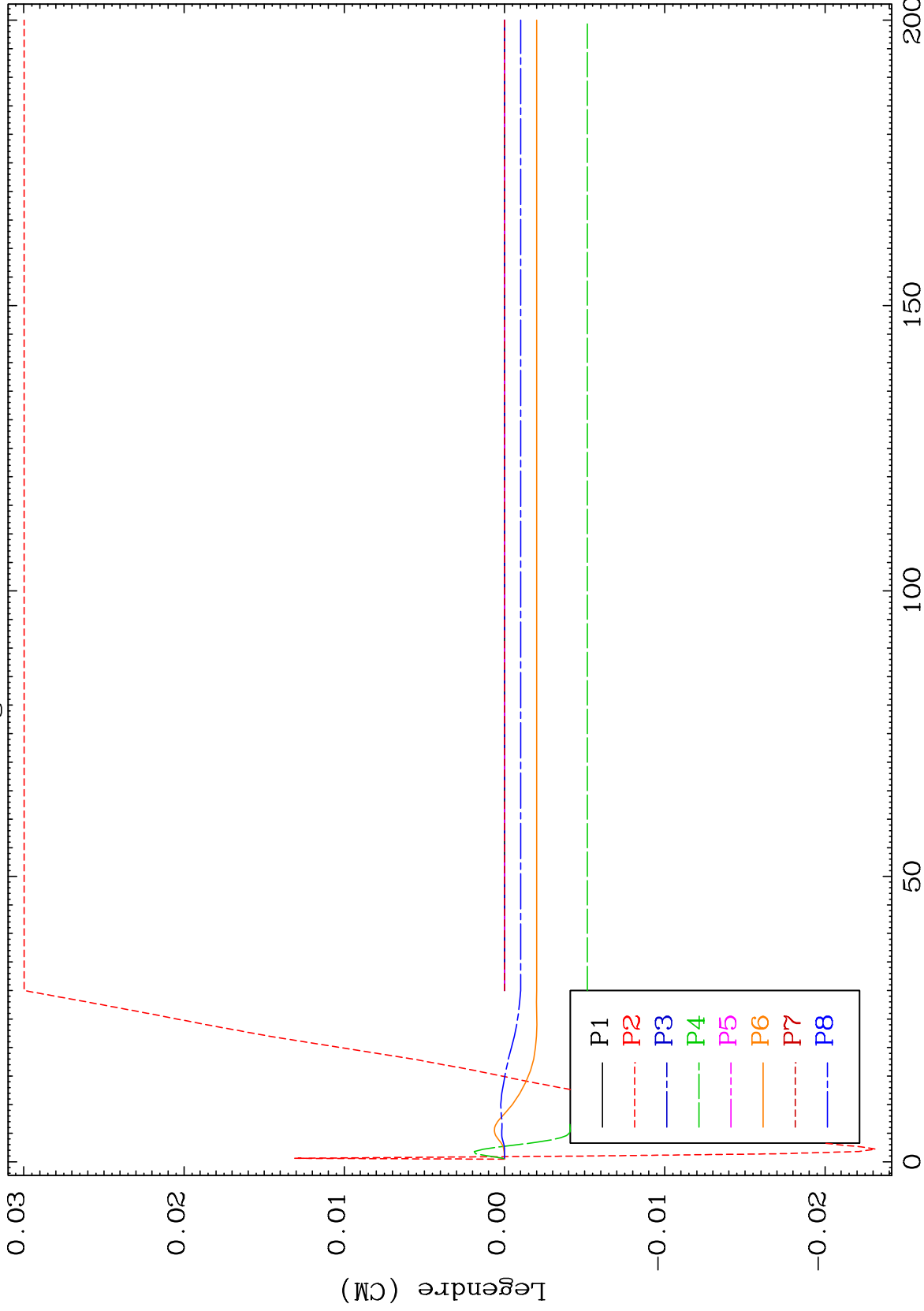
51-Sb-124

51-Sb-124

MAT 5134

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

51-Sb-124



96

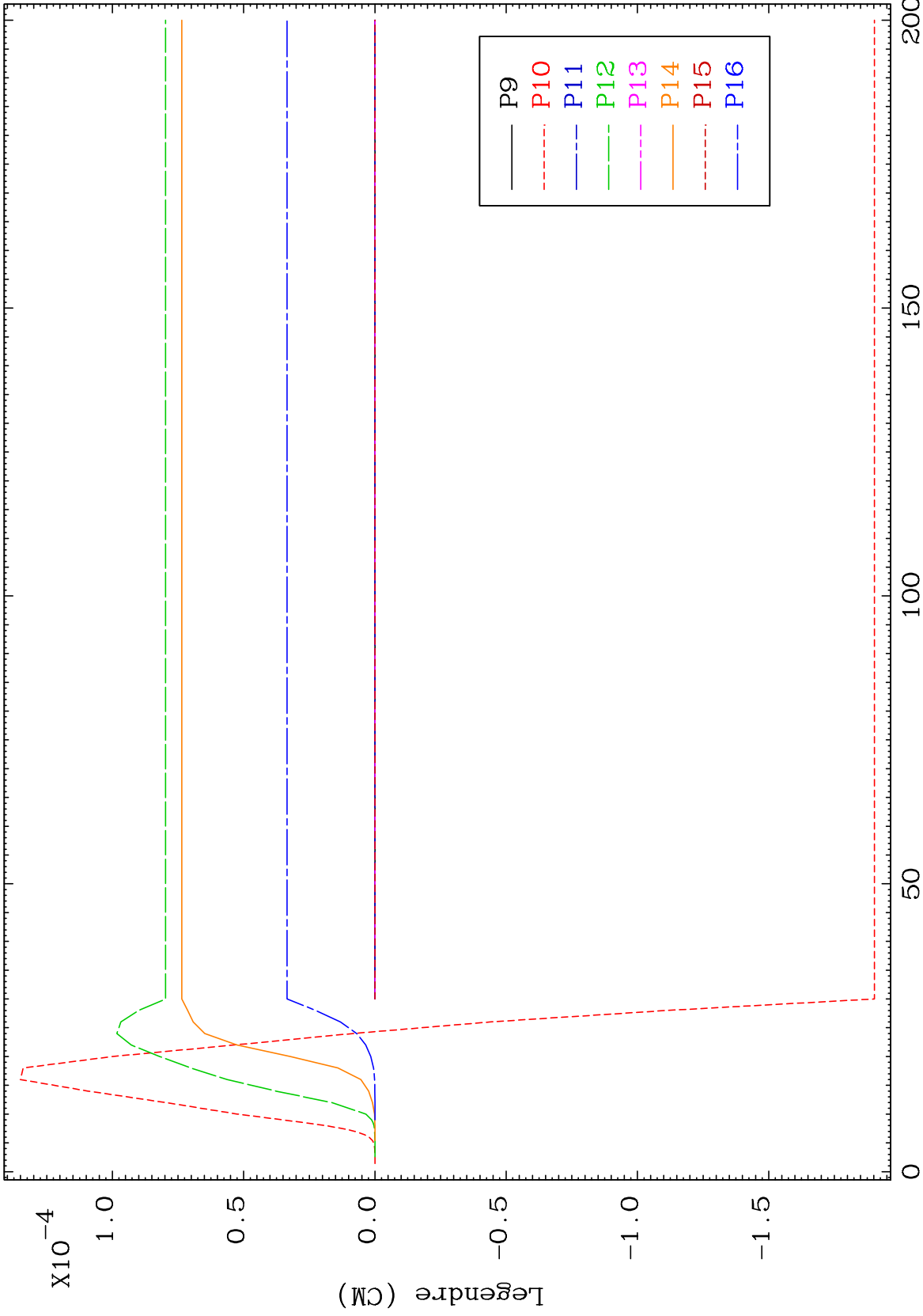
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

51-Sb-124

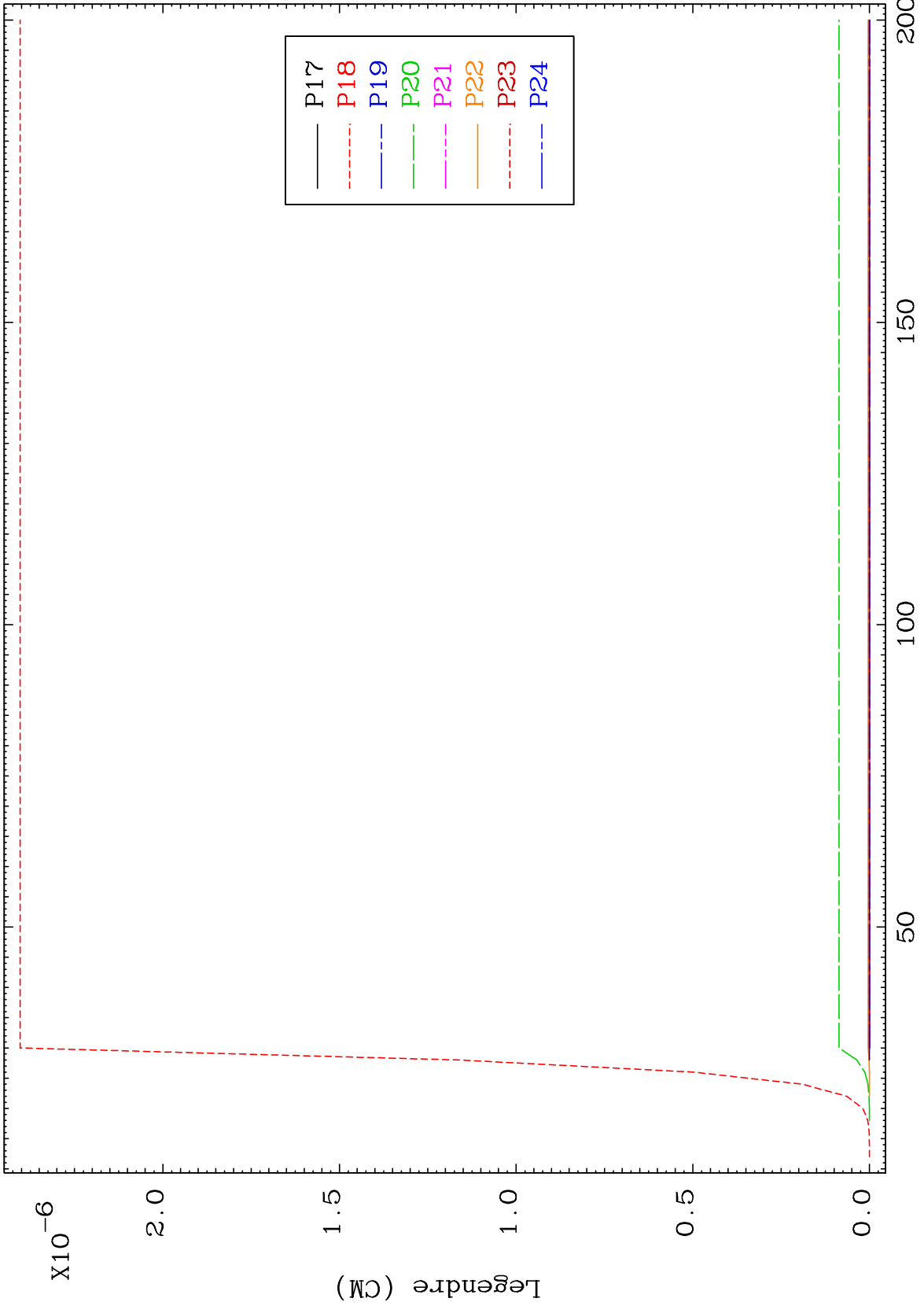


97

Incident Energy (MeV)

51-Sb-124

MAT 5134 MT= 74 (n,n') Level Legendre Coefficients 51-Sb-124

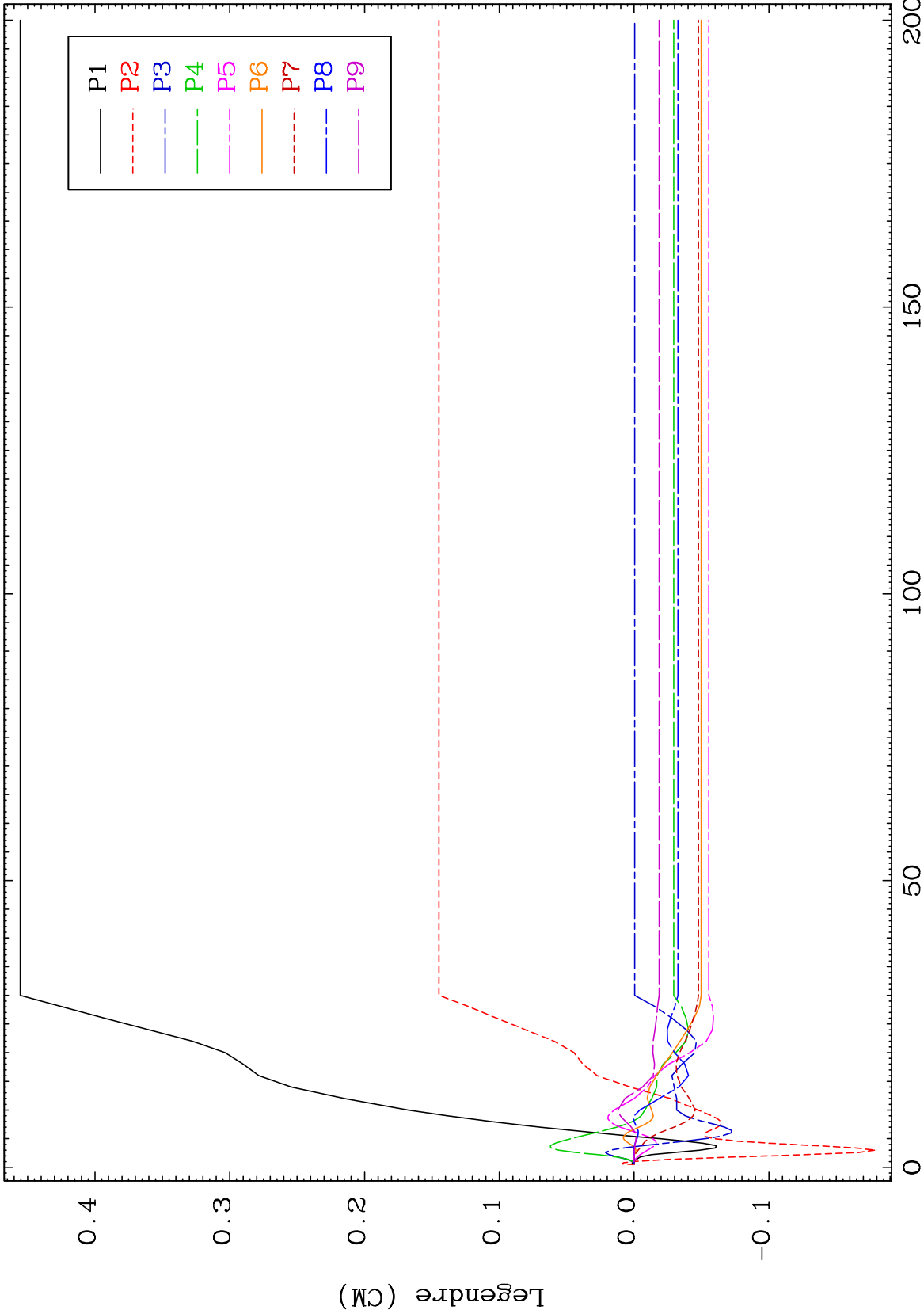


98 51-Sb-124

MAT 5134

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

51-Sb-124



99

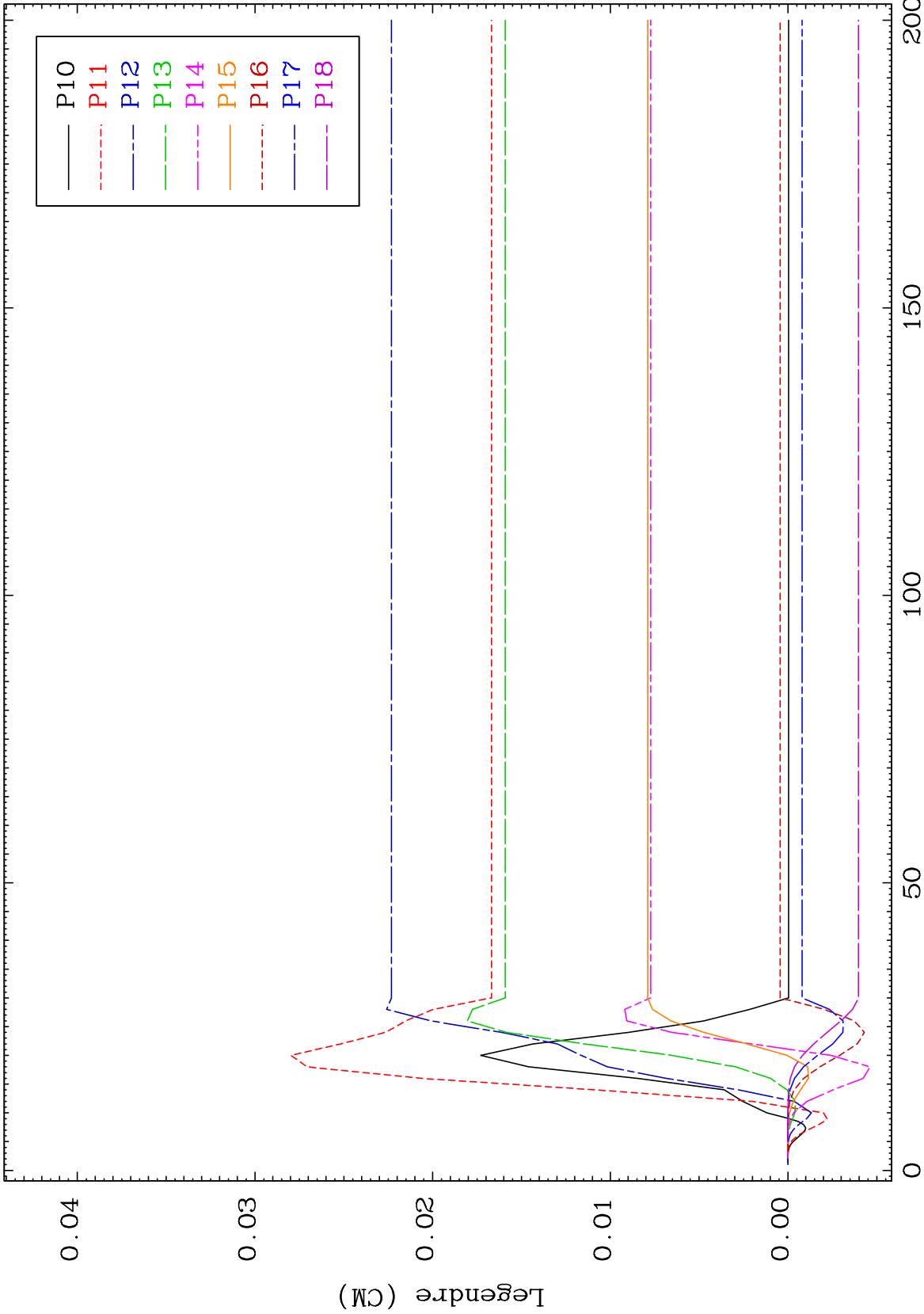
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

51-Sb-124



51-Sb-124

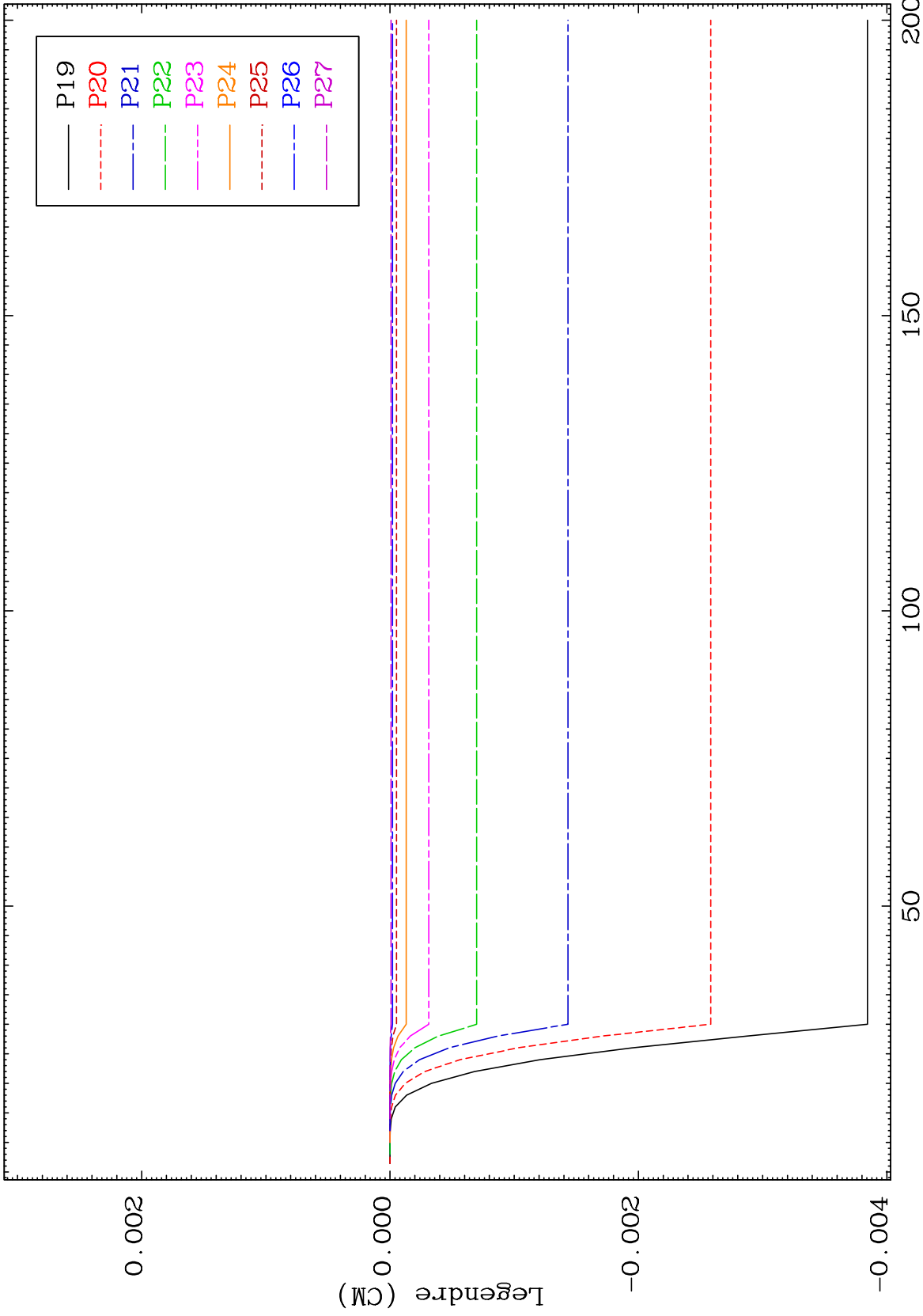
Incident Energy (MeV)

100

MAT 5134

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

51-Sb-124

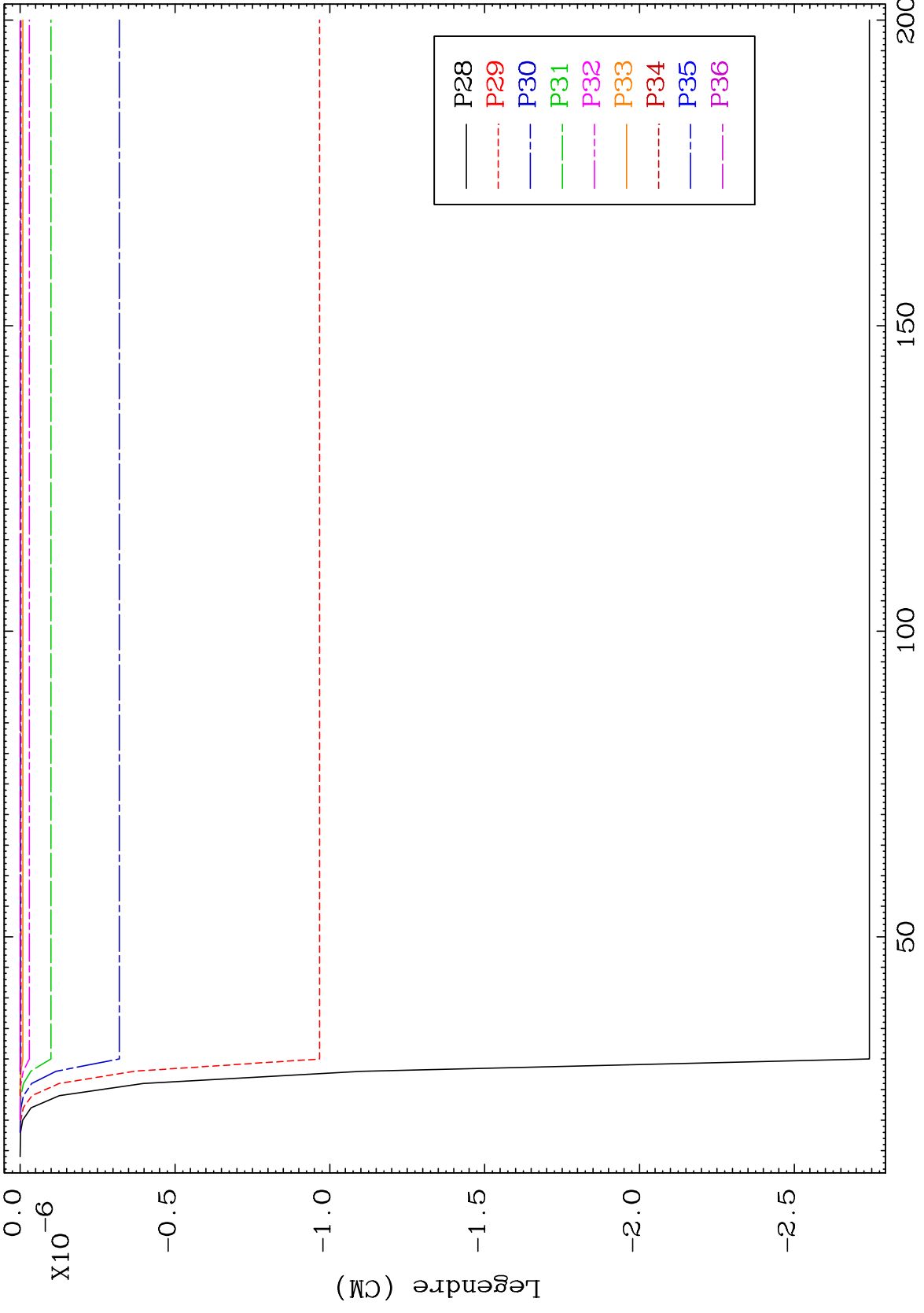


101

Incident Energy (MeV)

51-Sb-124

MAT 5134 MT= 75 (n,n') Level Legendre Coefficients 51-Sb-124

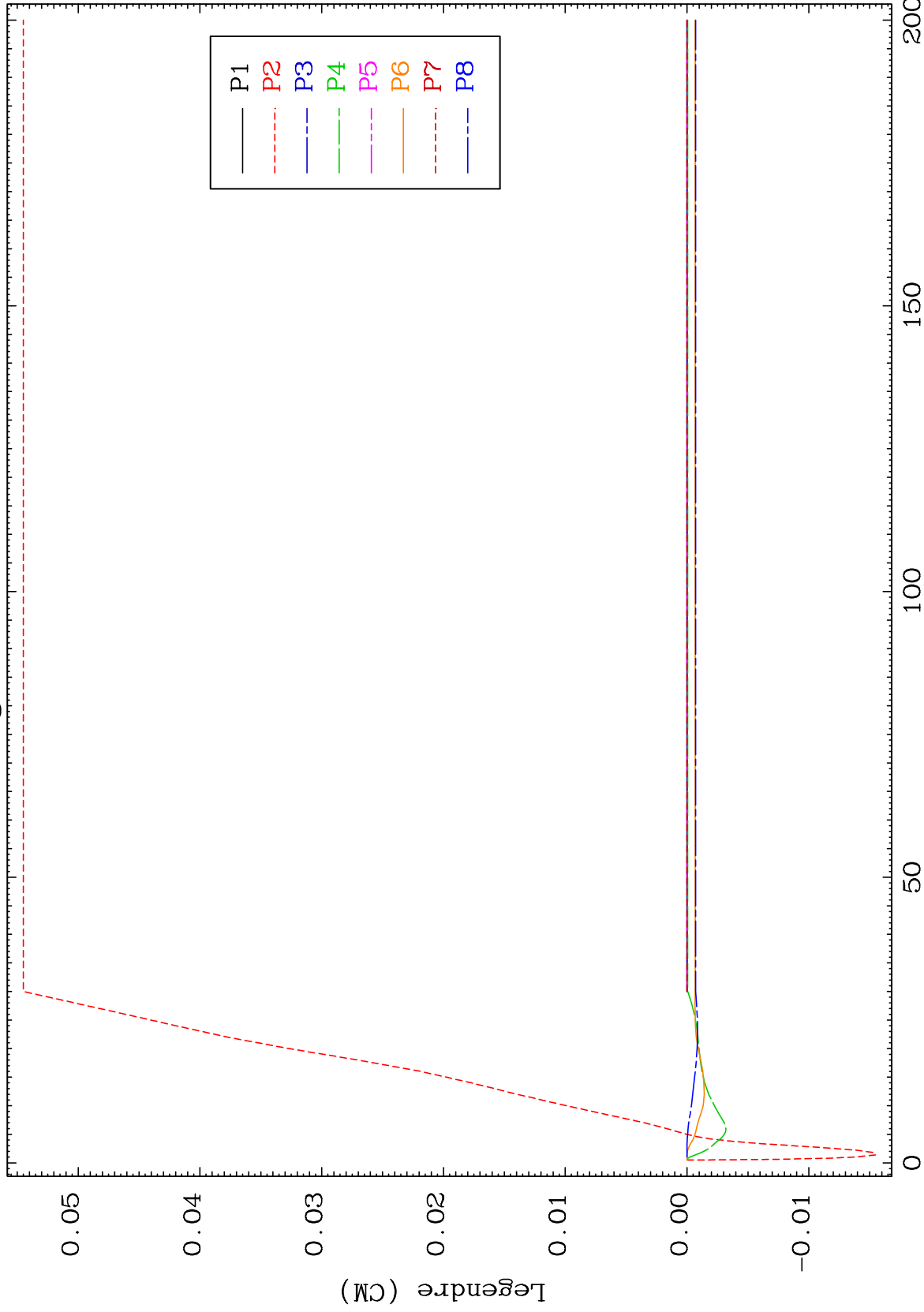


102 Incident Energy (MeV) 51-Sb-124

MAT 5134

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

51-Sb-124



51-Sb-124

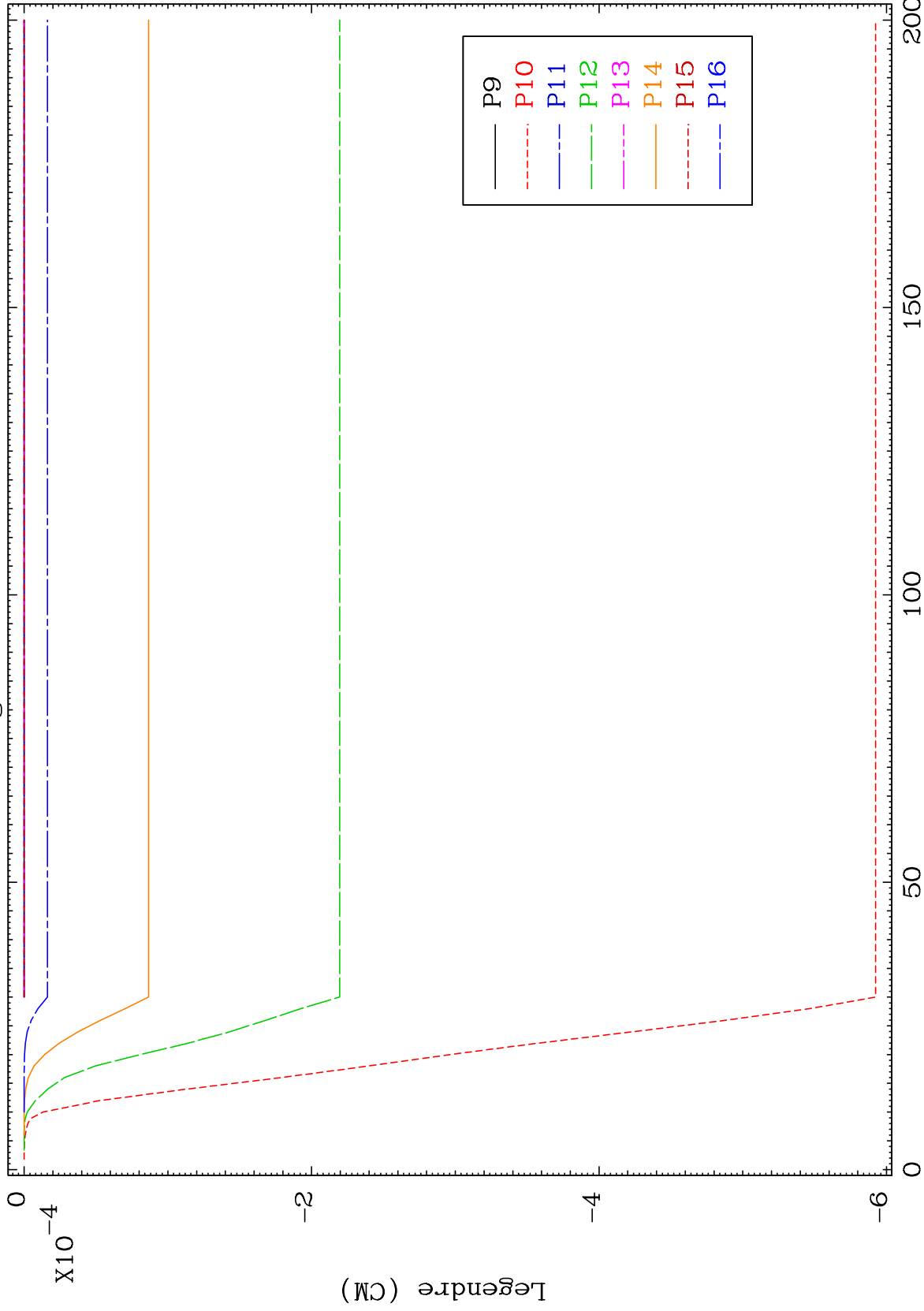
Incident Energy (MeV)

103

MAT 5134

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

51-Sb-124



104

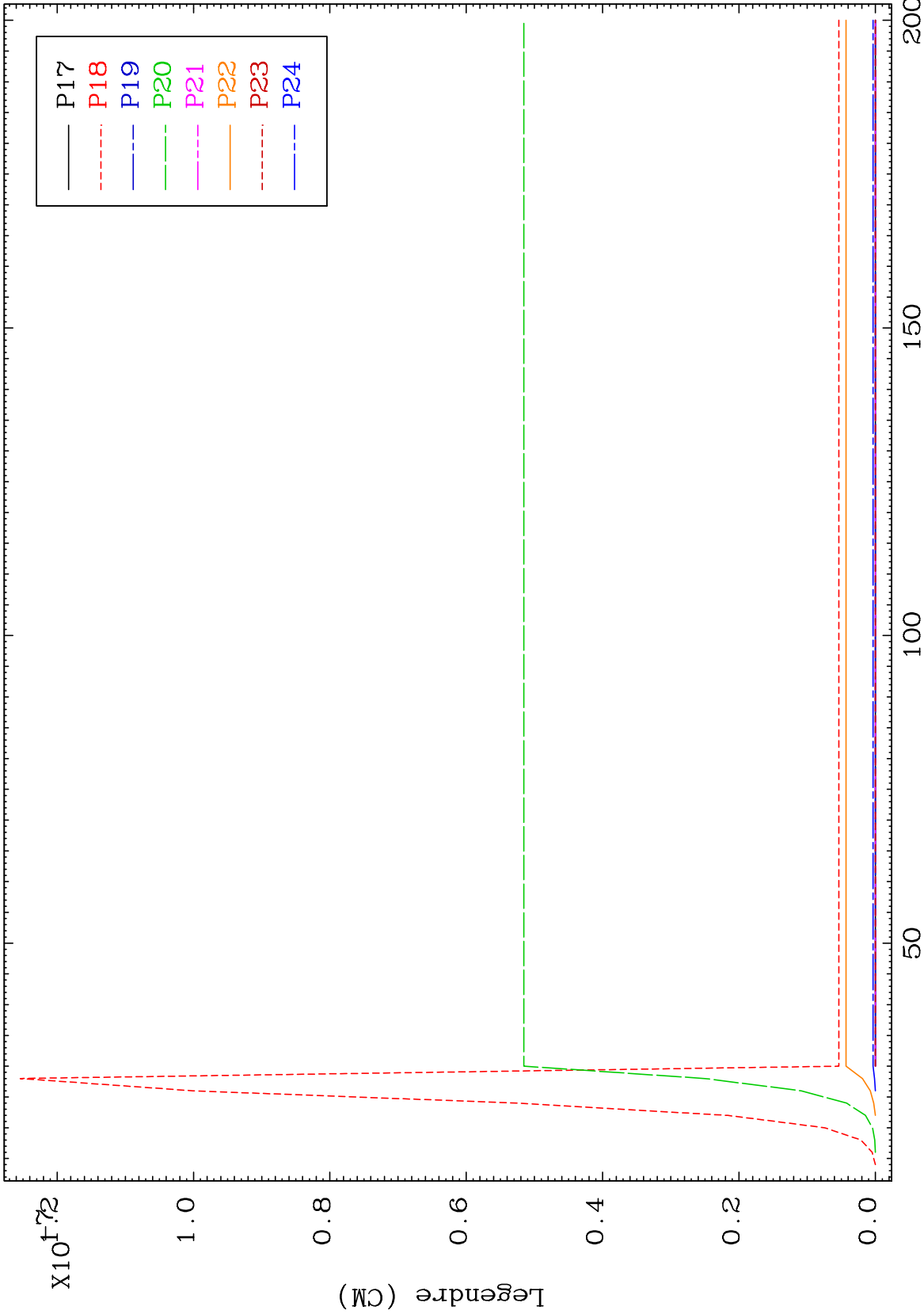
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

51-Sb-124



51-Sb-124

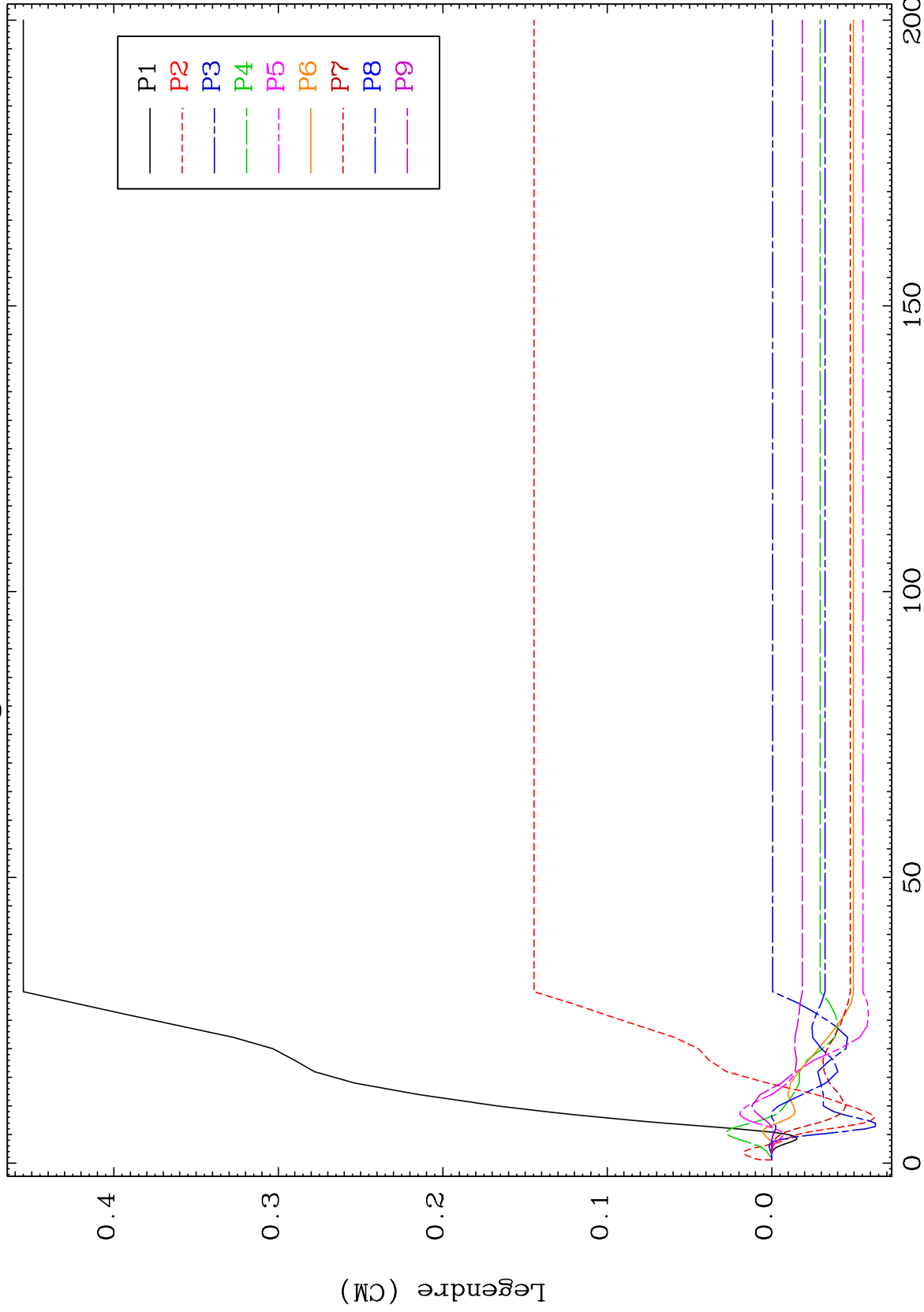
Incident Energy (MeV)

105

MAT 5134

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

51-Sb-124



51-Sb-124

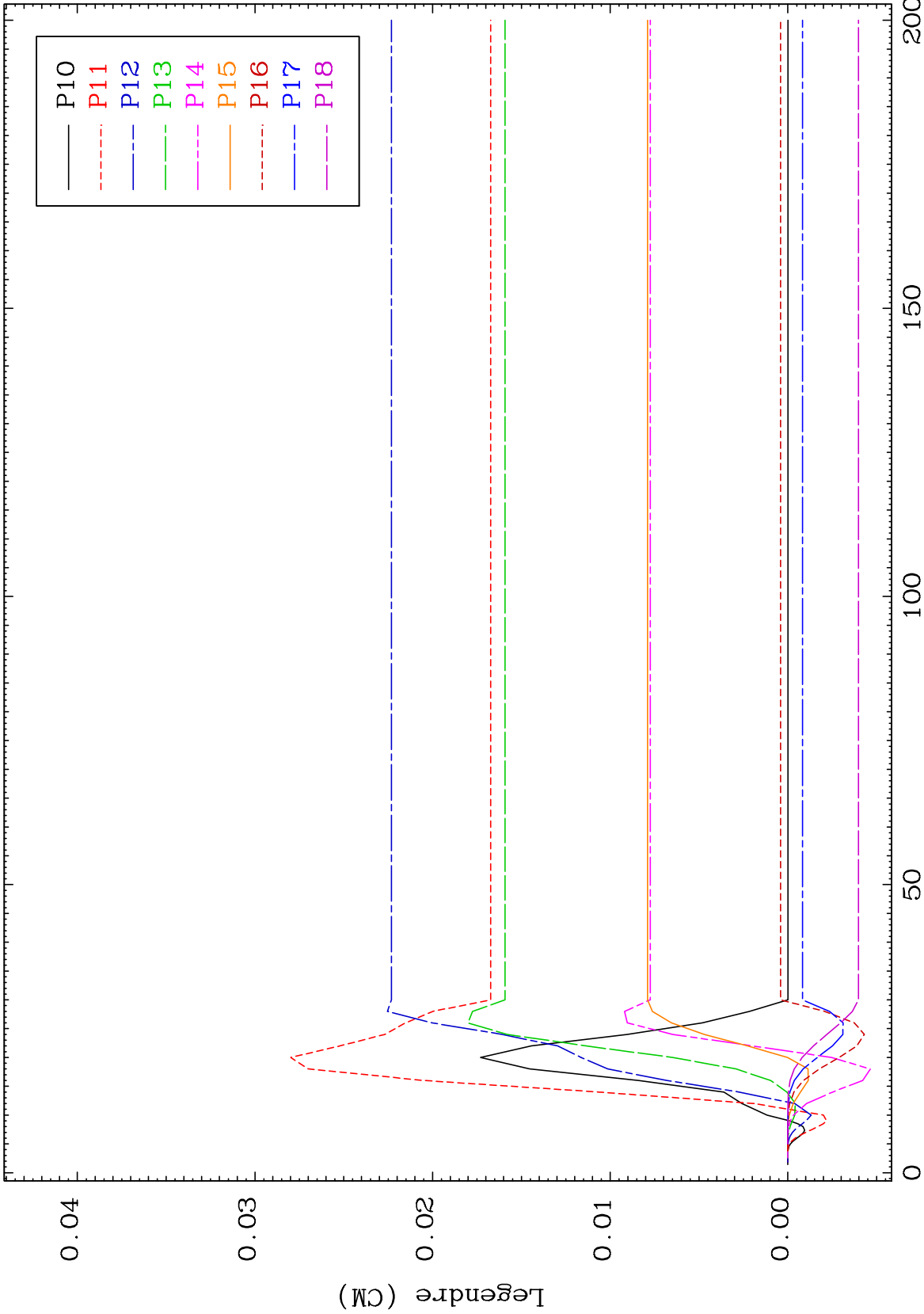
Incident Energy (MeV)

106

MAT 5134

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

51-Sb-124



107

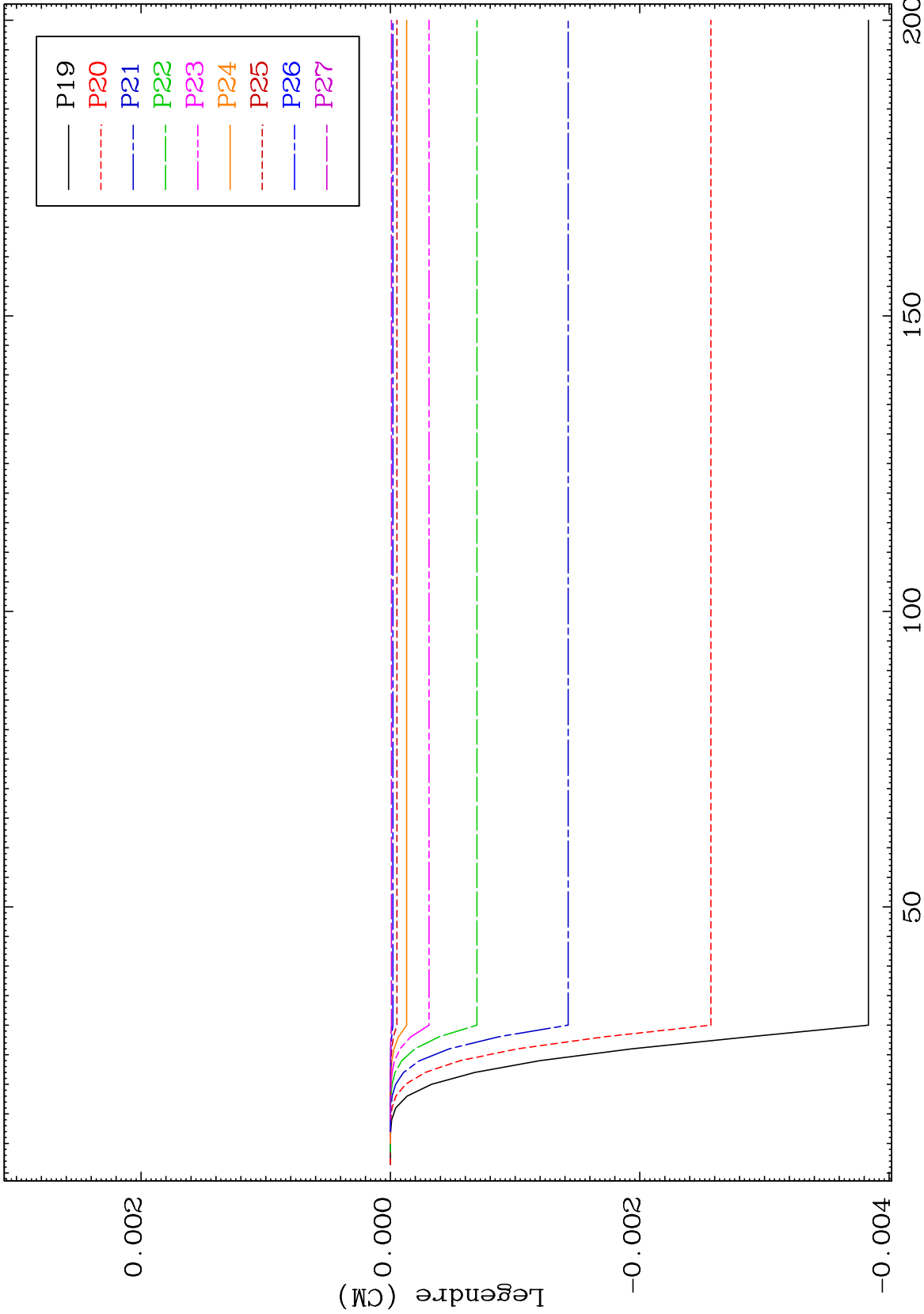
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

51-Sb-124



108

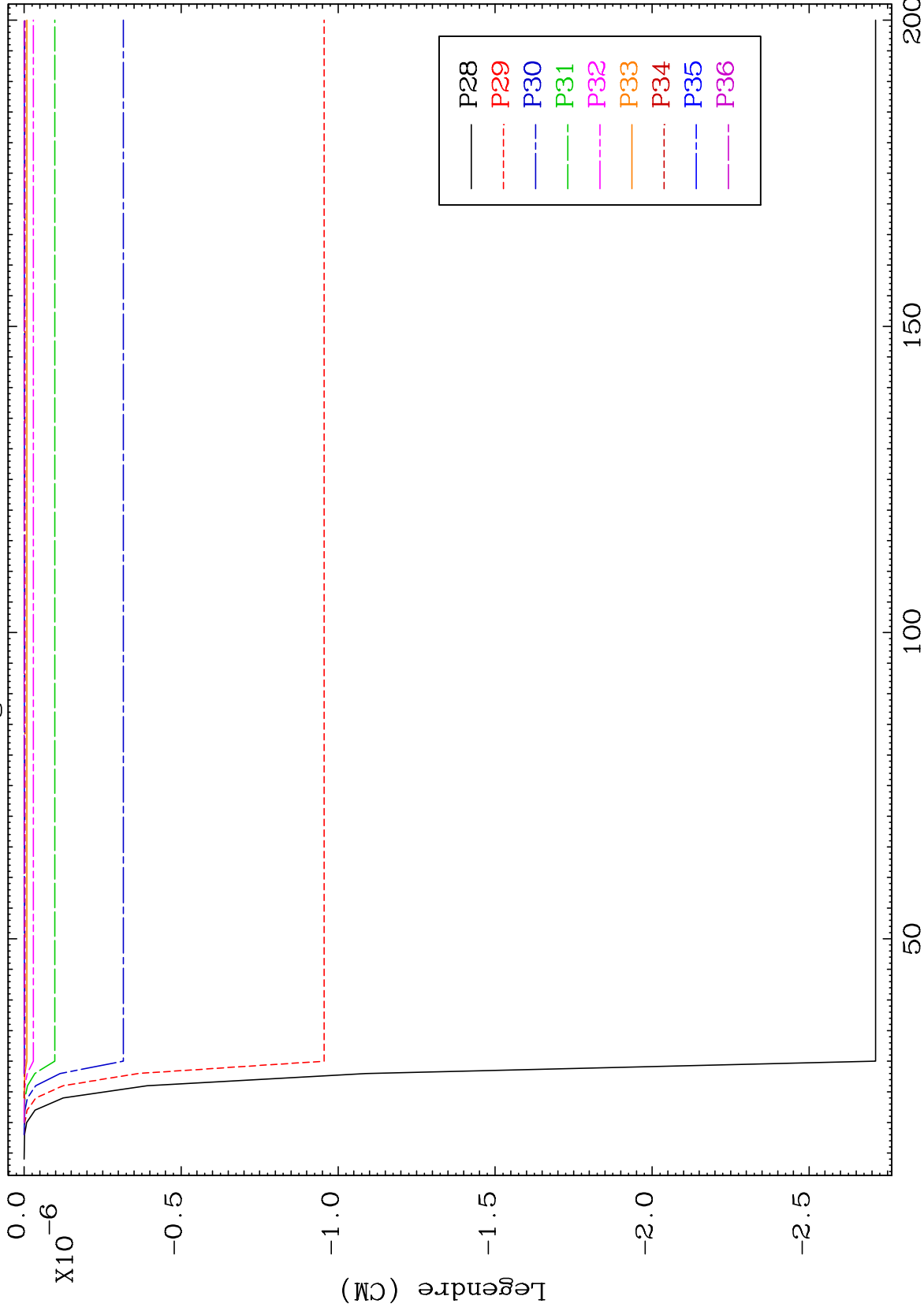
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

51-Sb-124



109

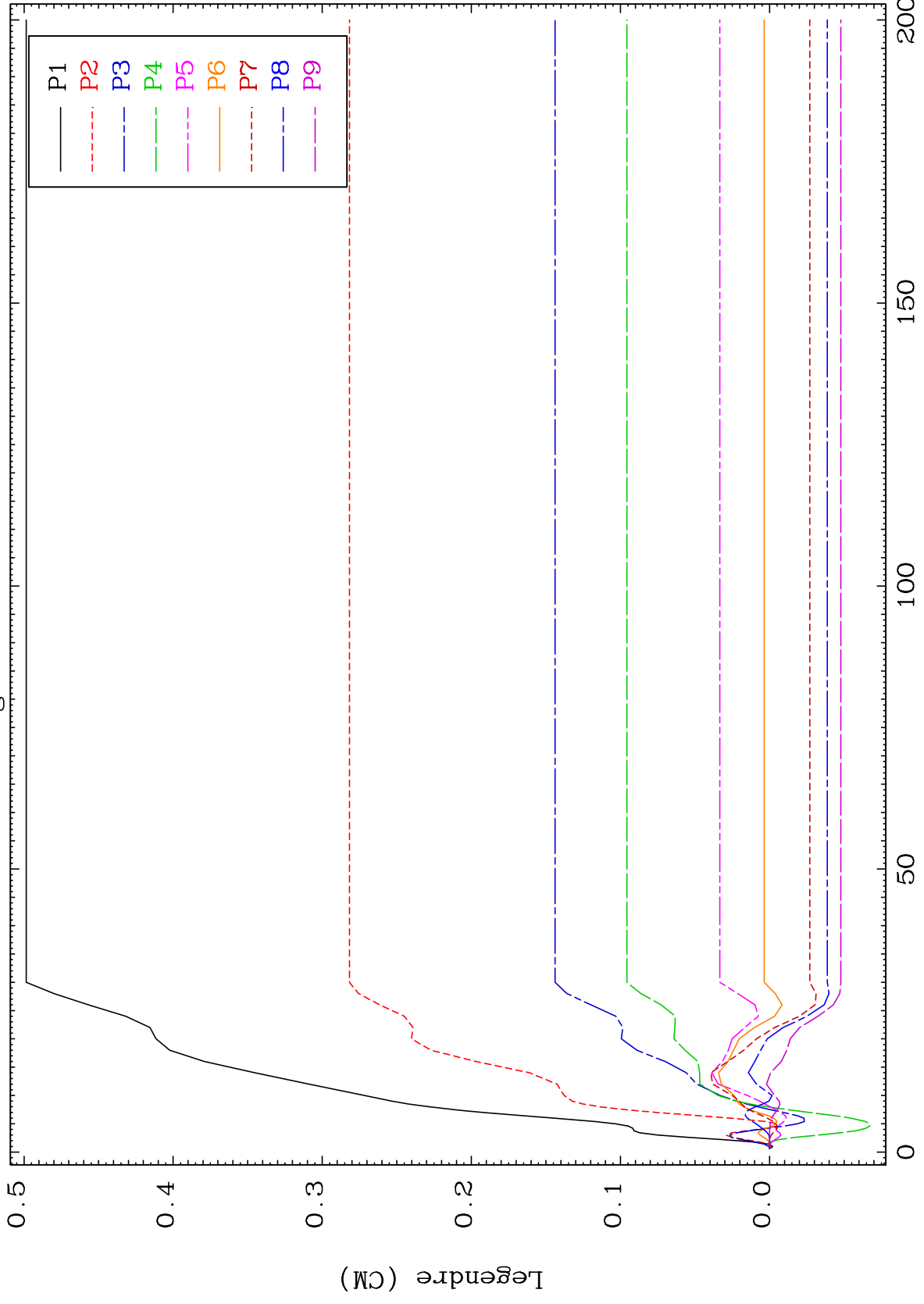
Incident Energy (MeV)

51-Sb-124

MAT 5134

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

51-Sb-124

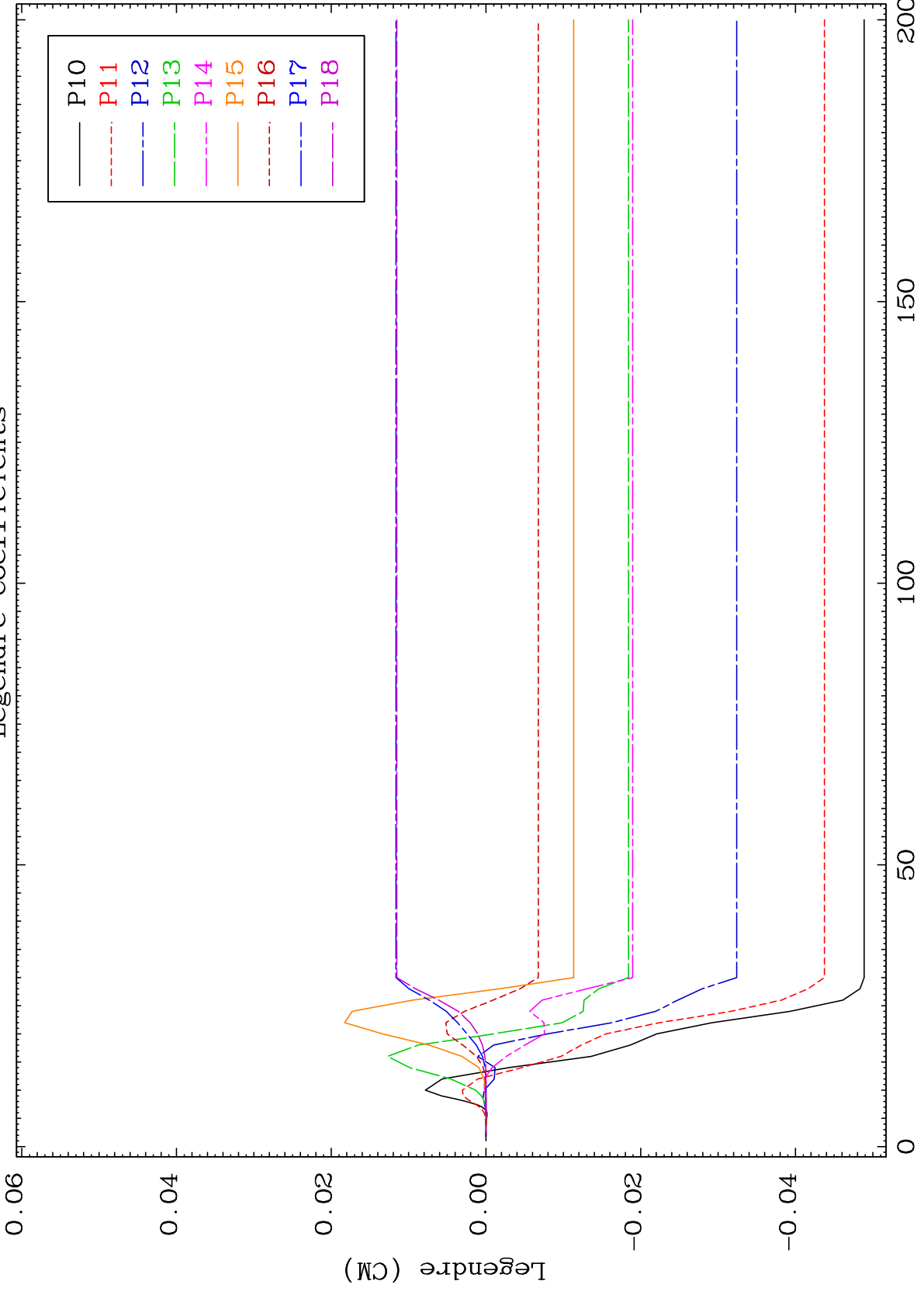


110

Incident Energy (MeV)

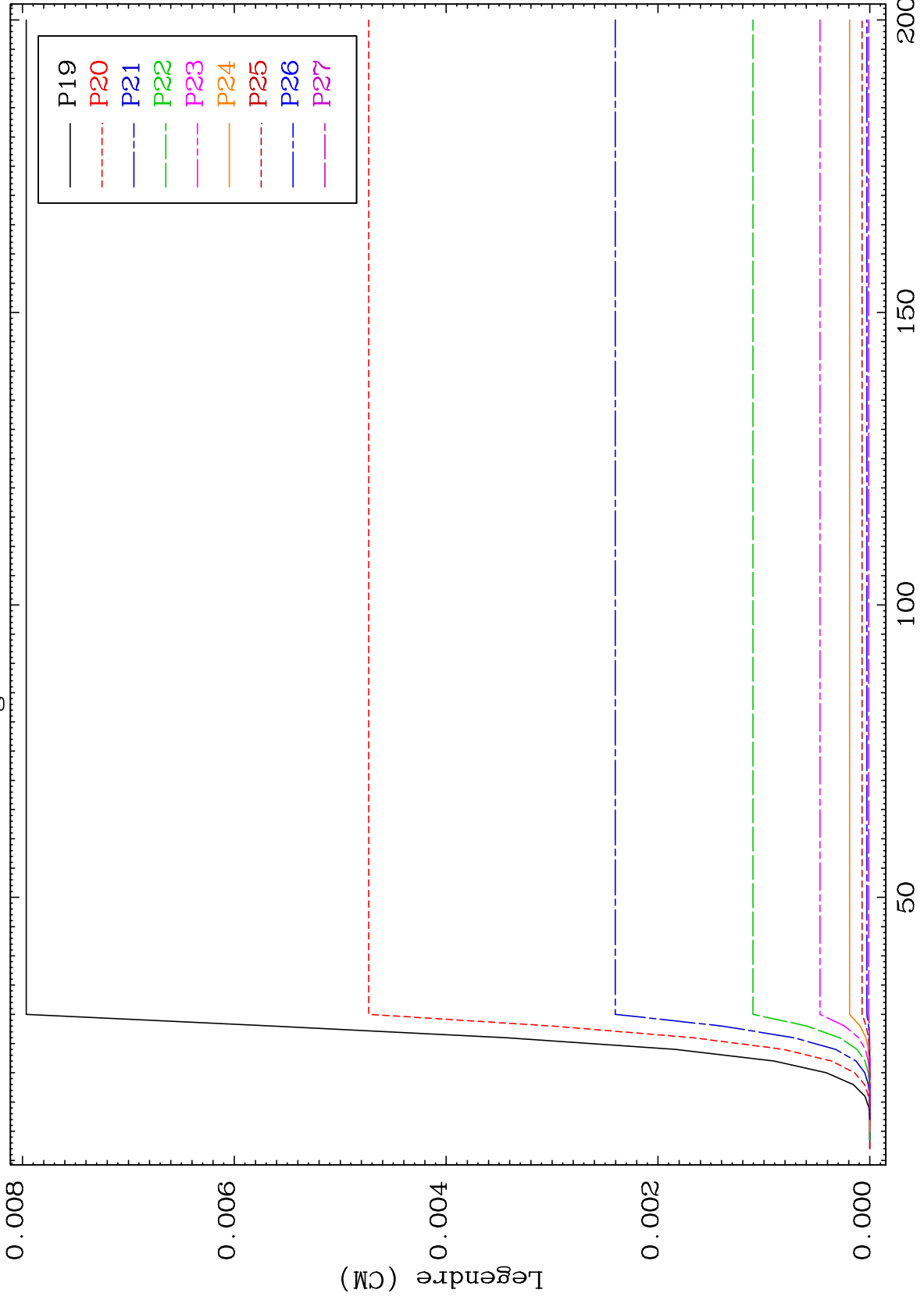
51-Sb-124

MAT 5134 MT= 78 (n,n') Level Legendre Coefficients 51-Sb-124



111 51-Sb-124

MAT 5134 MT= 78 (n,n') Level Legendre Coefficients 51-Sb-124

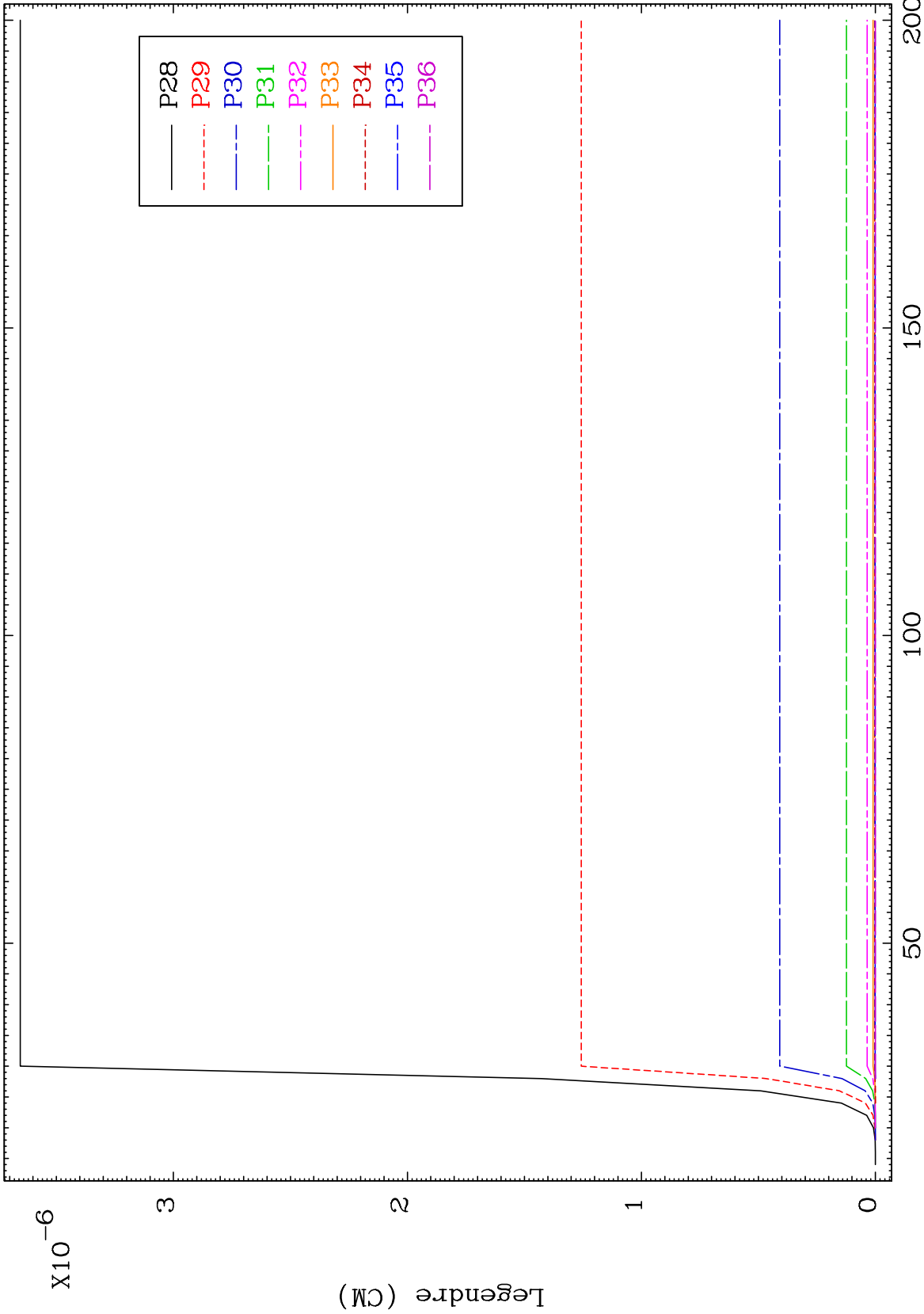


112 Incident Energy (MeV) 51-Sb-124

MAT 5134

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

51-Sb-124



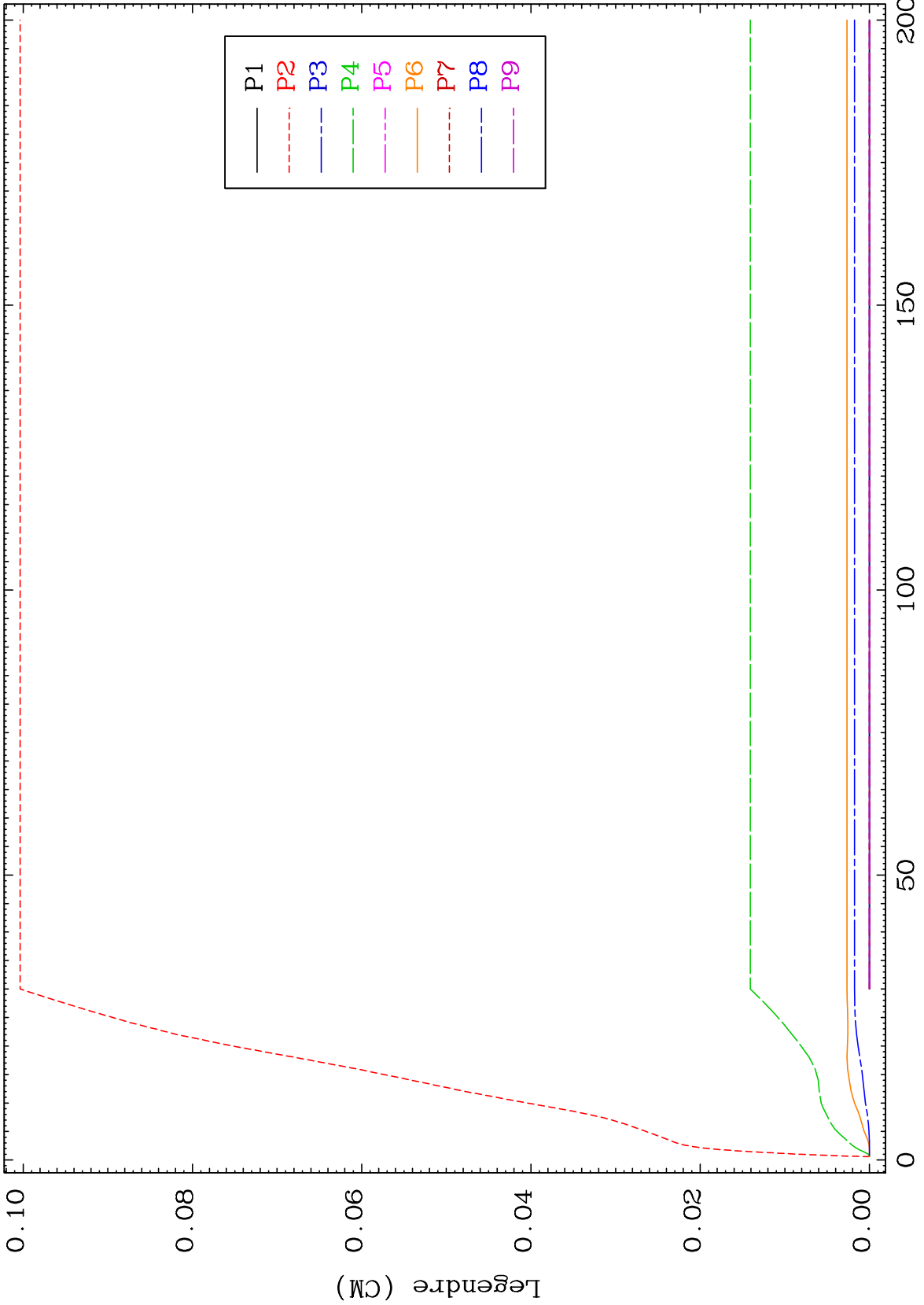
113

51-Sb-124

MAT 5134

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

51-Sb-124



51-Sb-124

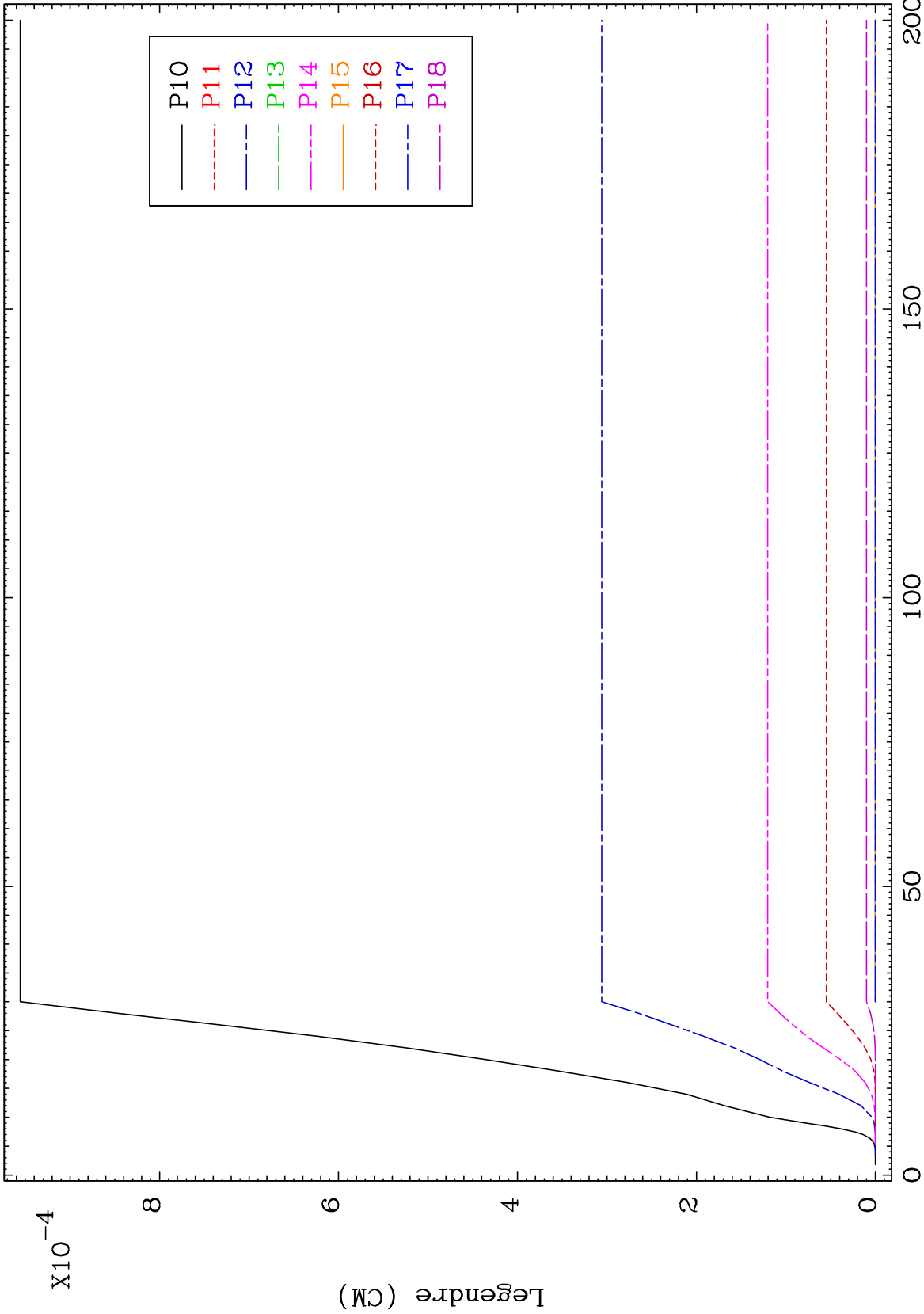
Incident Energy (MeV)

114

MAT 5134

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

51-Sb-124

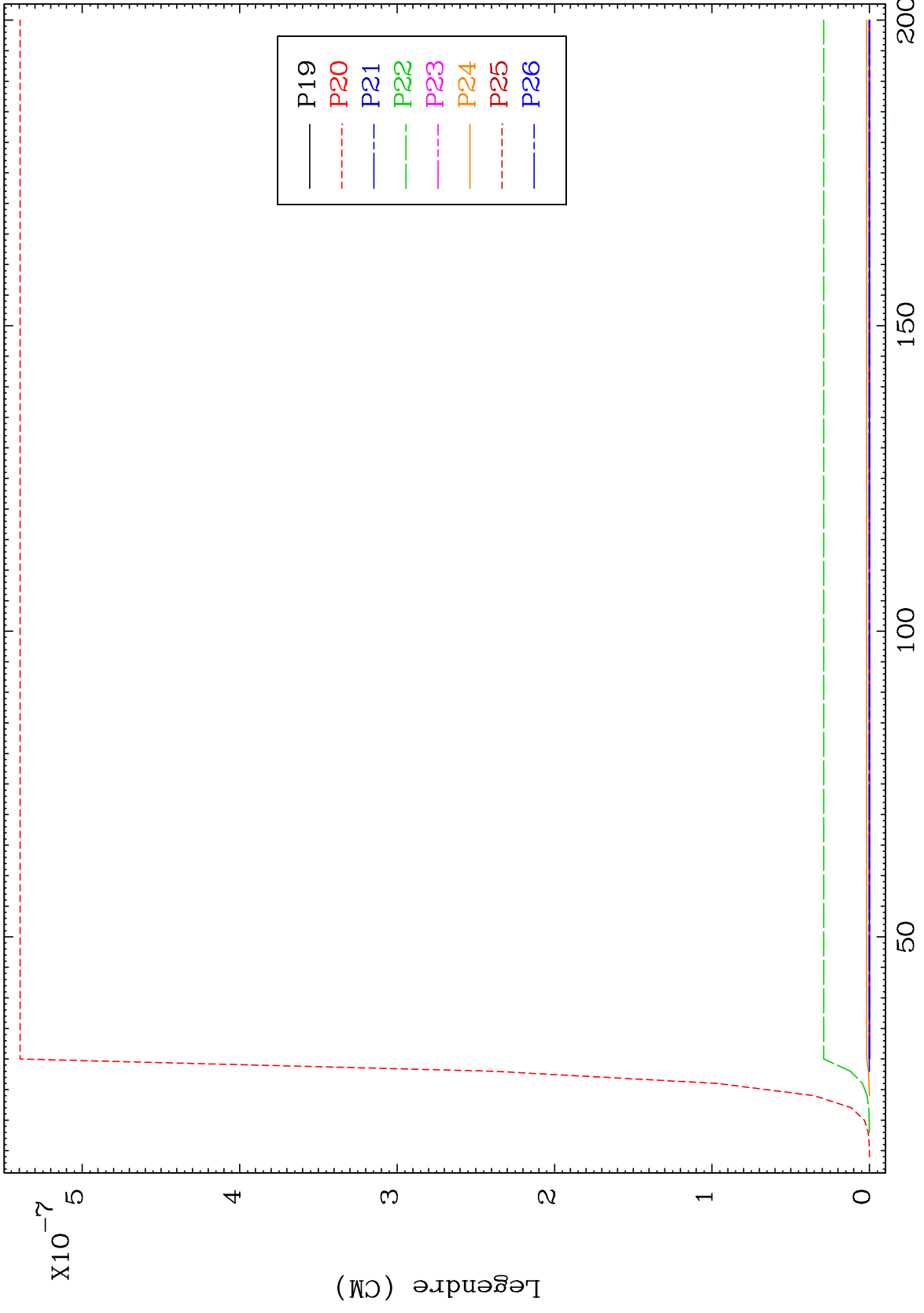


115

Incident Energy (MeV)

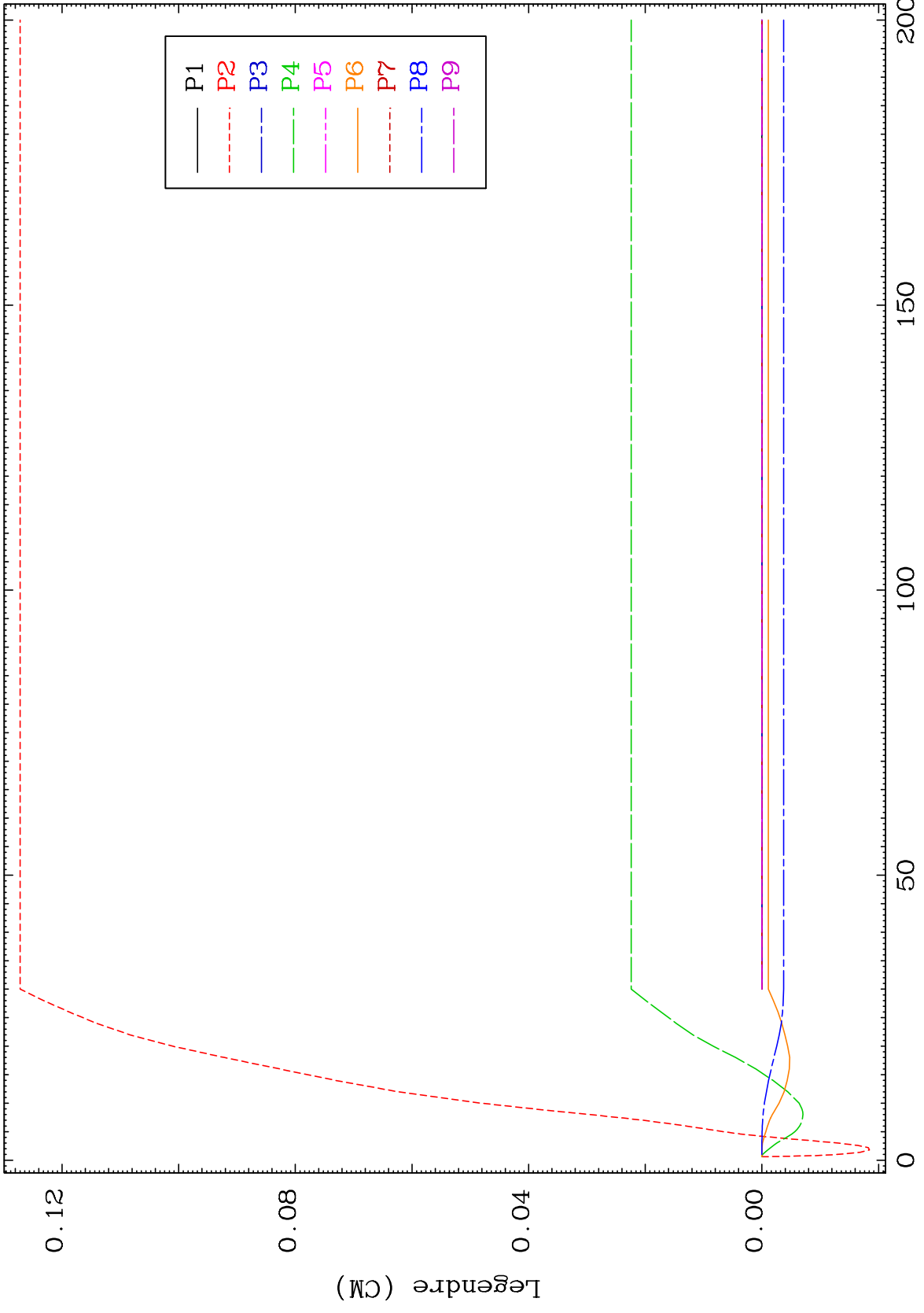
51-Sb-124

MAT 5134 MT= 79 (n,n') Level Legendre Coefficients 51-Sb-124



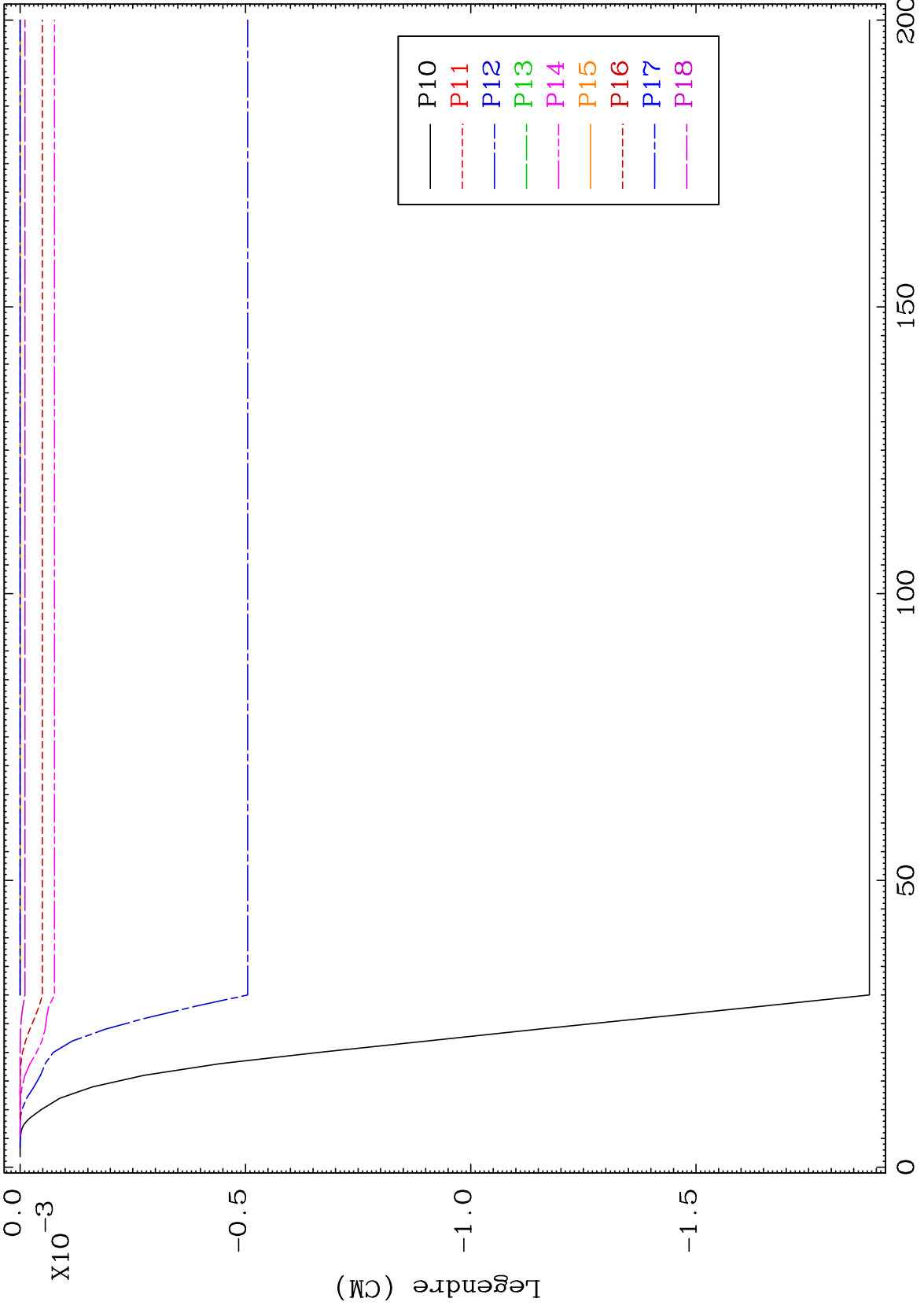
116 Incident Energy (MeV) 51-Sb-124

MAT 5134 MT= 80 (n,n') Level Legendre Coefficients 51-Sb-124



117 51-Sb-124

MAT 5134 MT= 80 (n,n') Level Legendre Coefficients 51-Sb-124

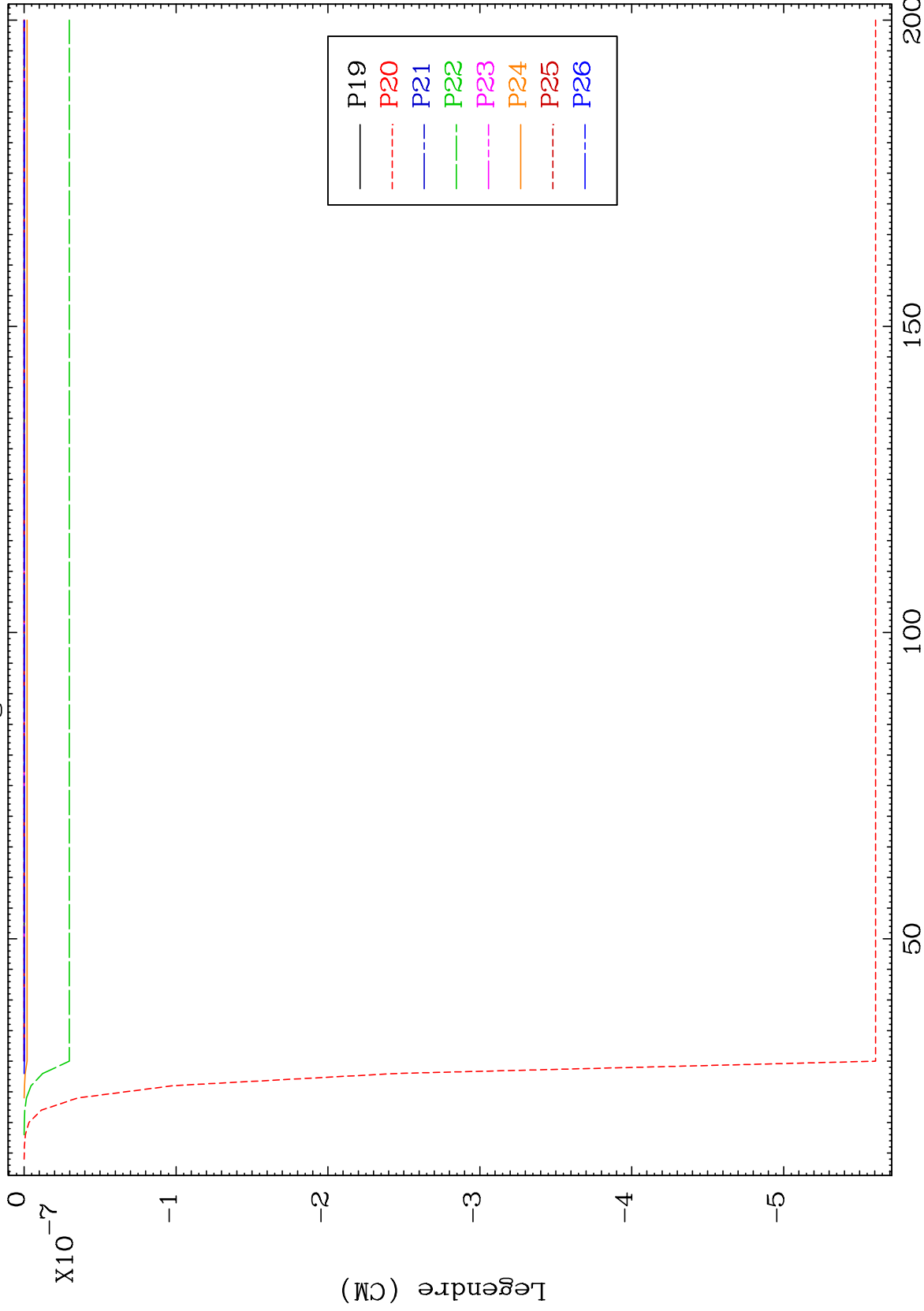


118 51-Sb-124

MAT 5134

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

51-Sb-124



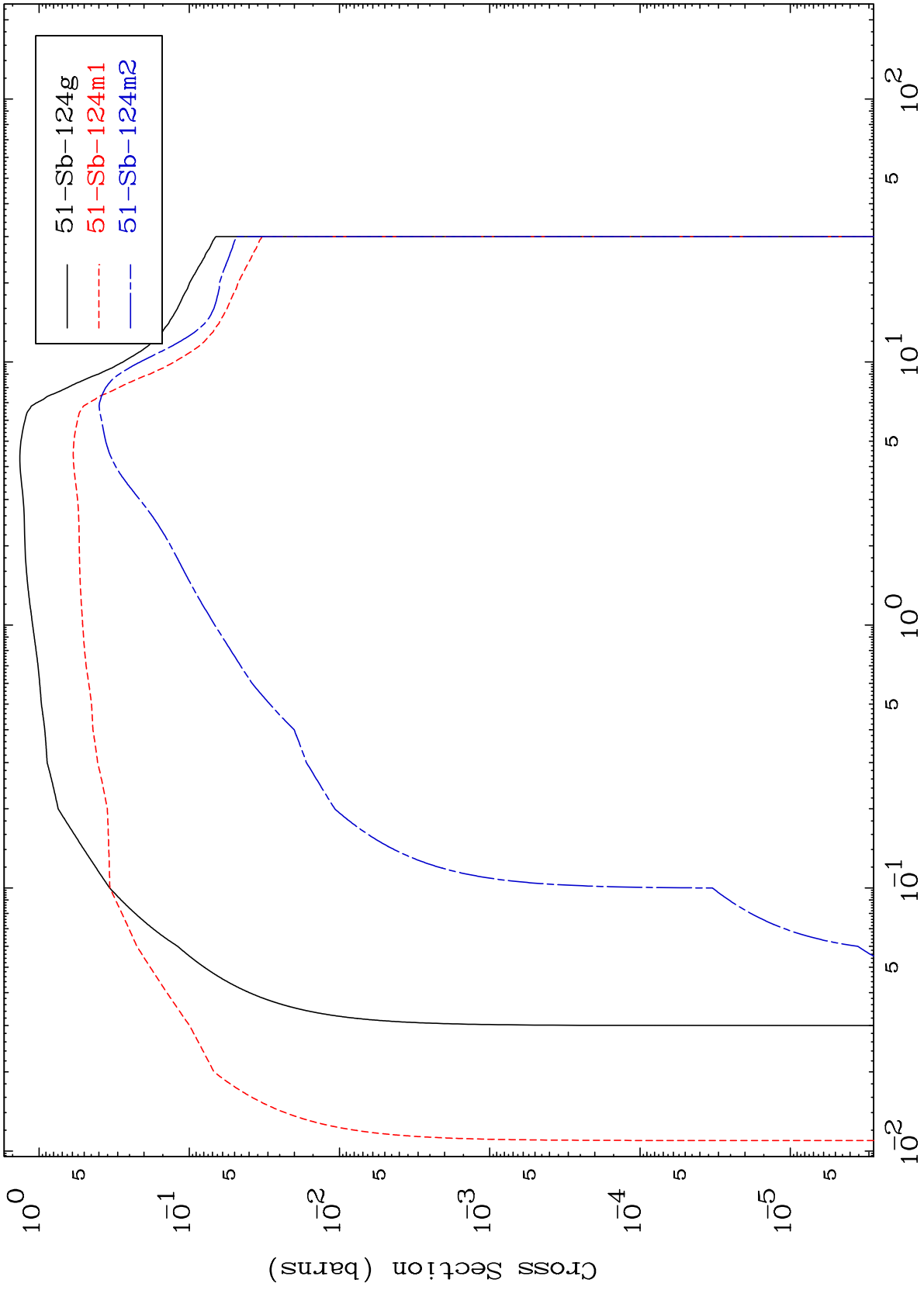
119

51-Sb-124

MAT 5134

51-Sb-124

### Inelastic Radionuclide Production Cross Section



51-Sb-124

Incident Energy (MeV)

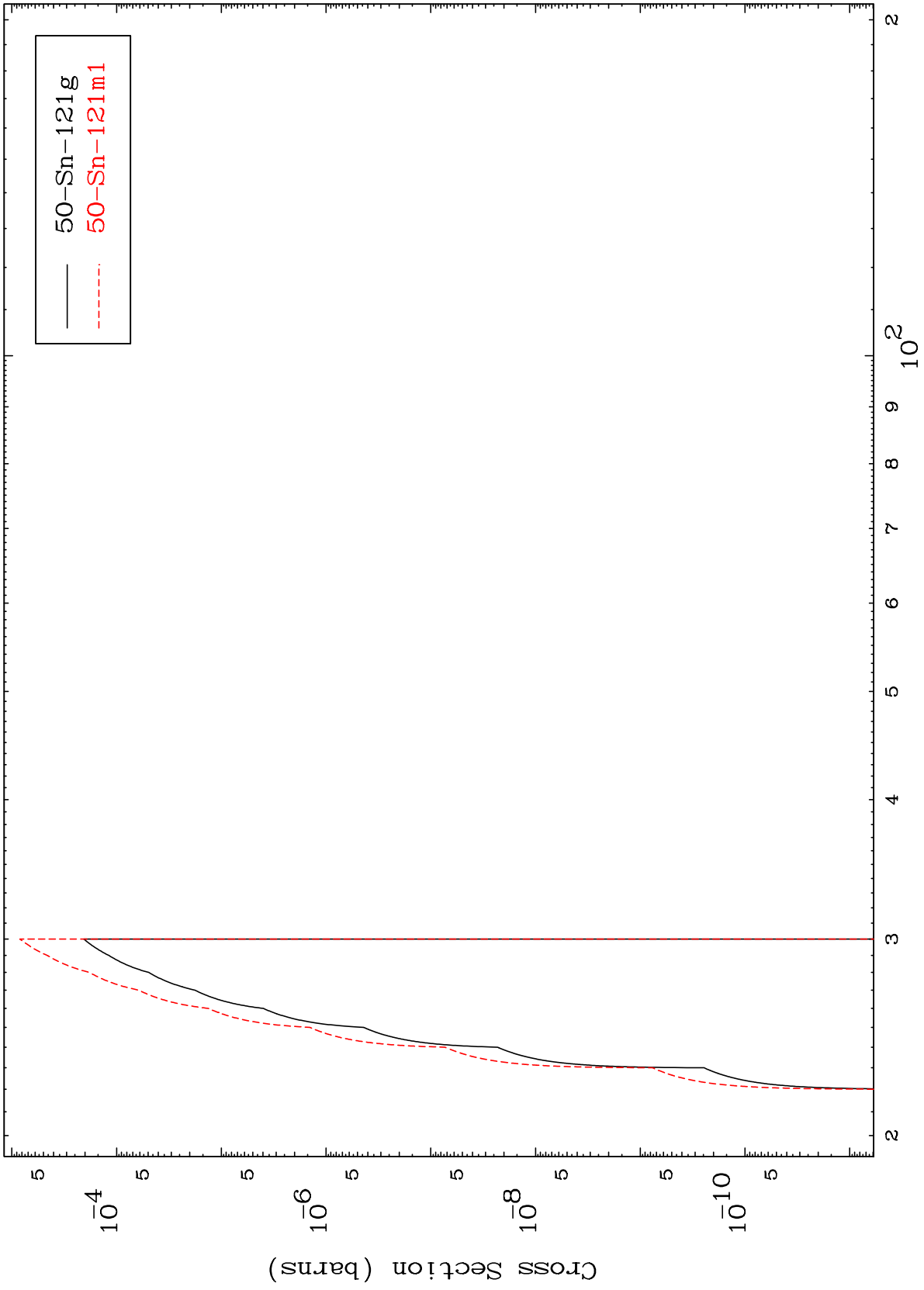
120

MAT 5134

(n,2n) d

51-Sb-124

Radionuclide Production Cross Section



121

Incident Energy (MeV)

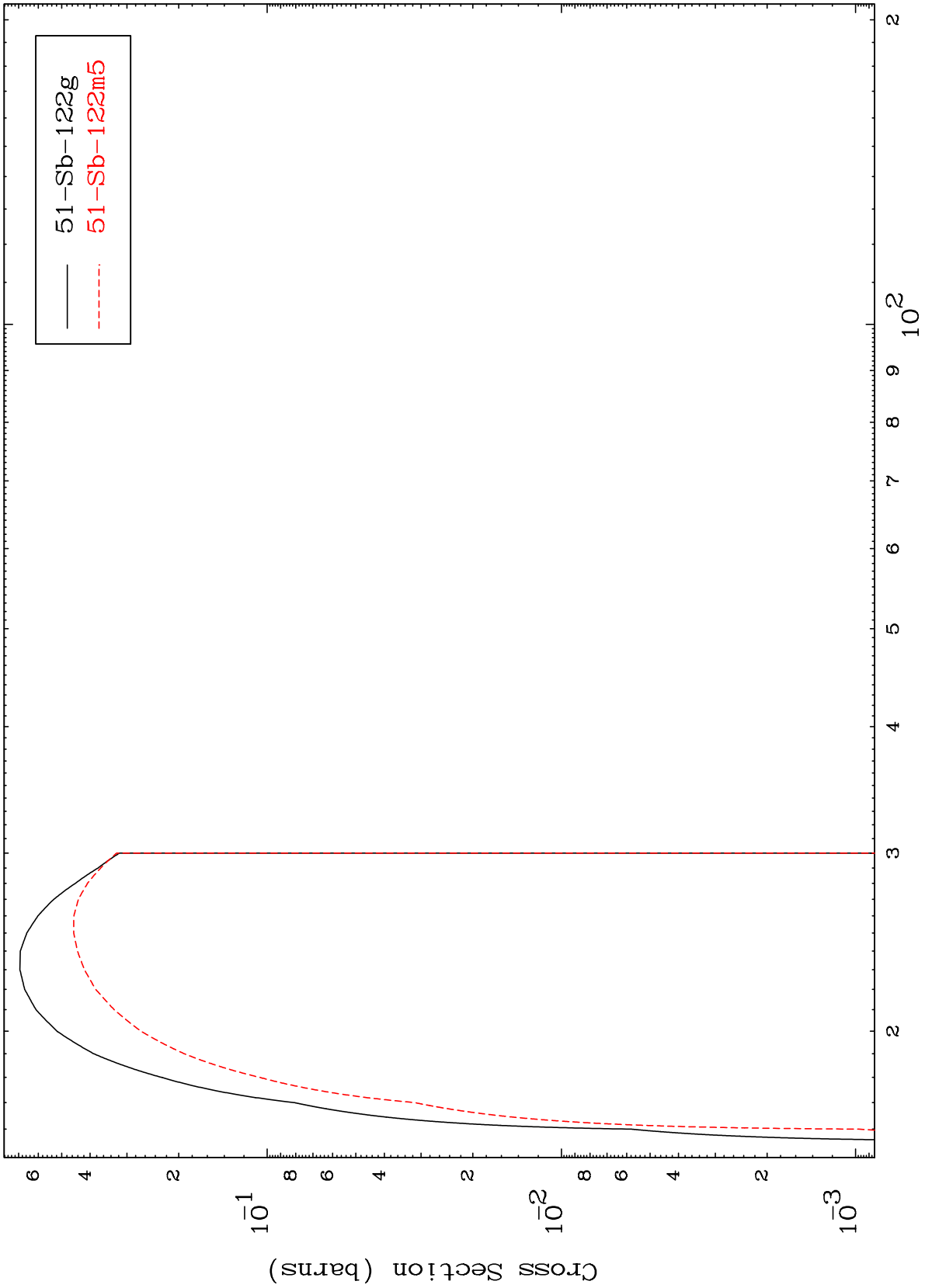
51-Sb-124

MAT 5134

(n,3n)

51-Sb-124

Radionuclide Production Cross Section



122

Incident Energy (MeV)

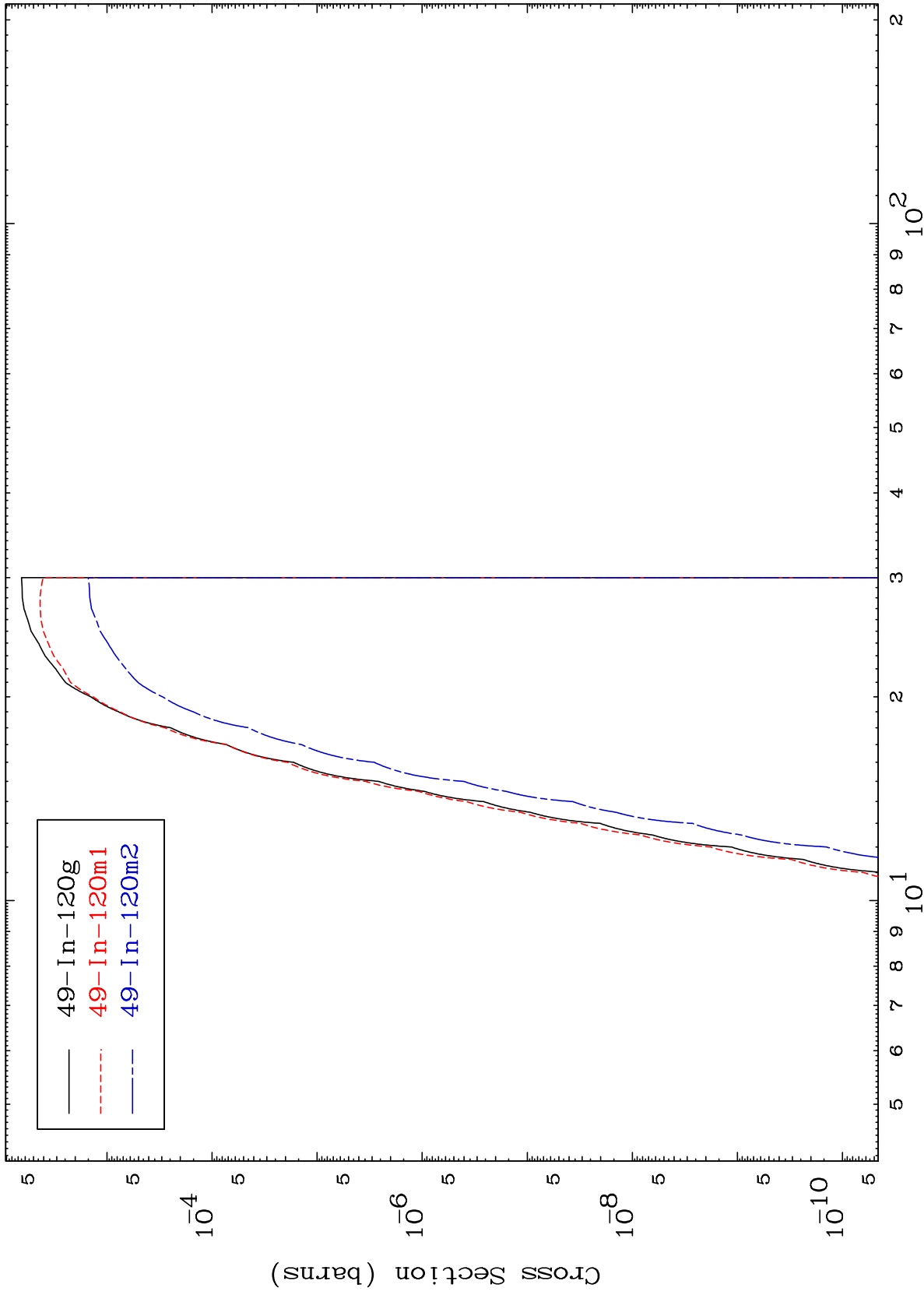
51-Sb-124

MAT 5134

(n,n')  $\alpha$

51-Sb-124

Radionuclide Production Cross Section



123

Incident Energy (MeV)

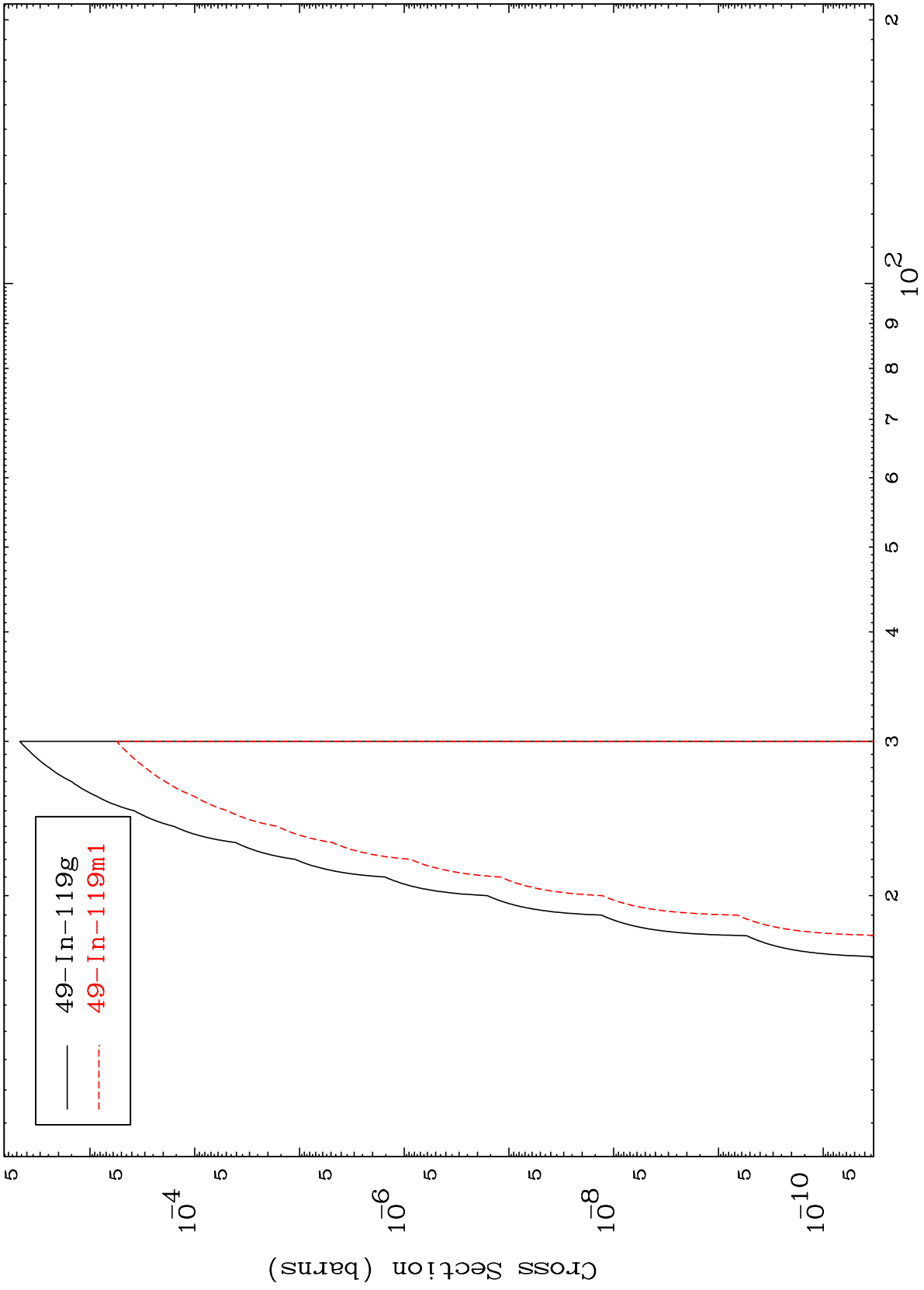
51-Sb-124

MAT 5134

(n,2n)  $\alpha$

51-Sb-124

Radionuclide Production Cross Section



124

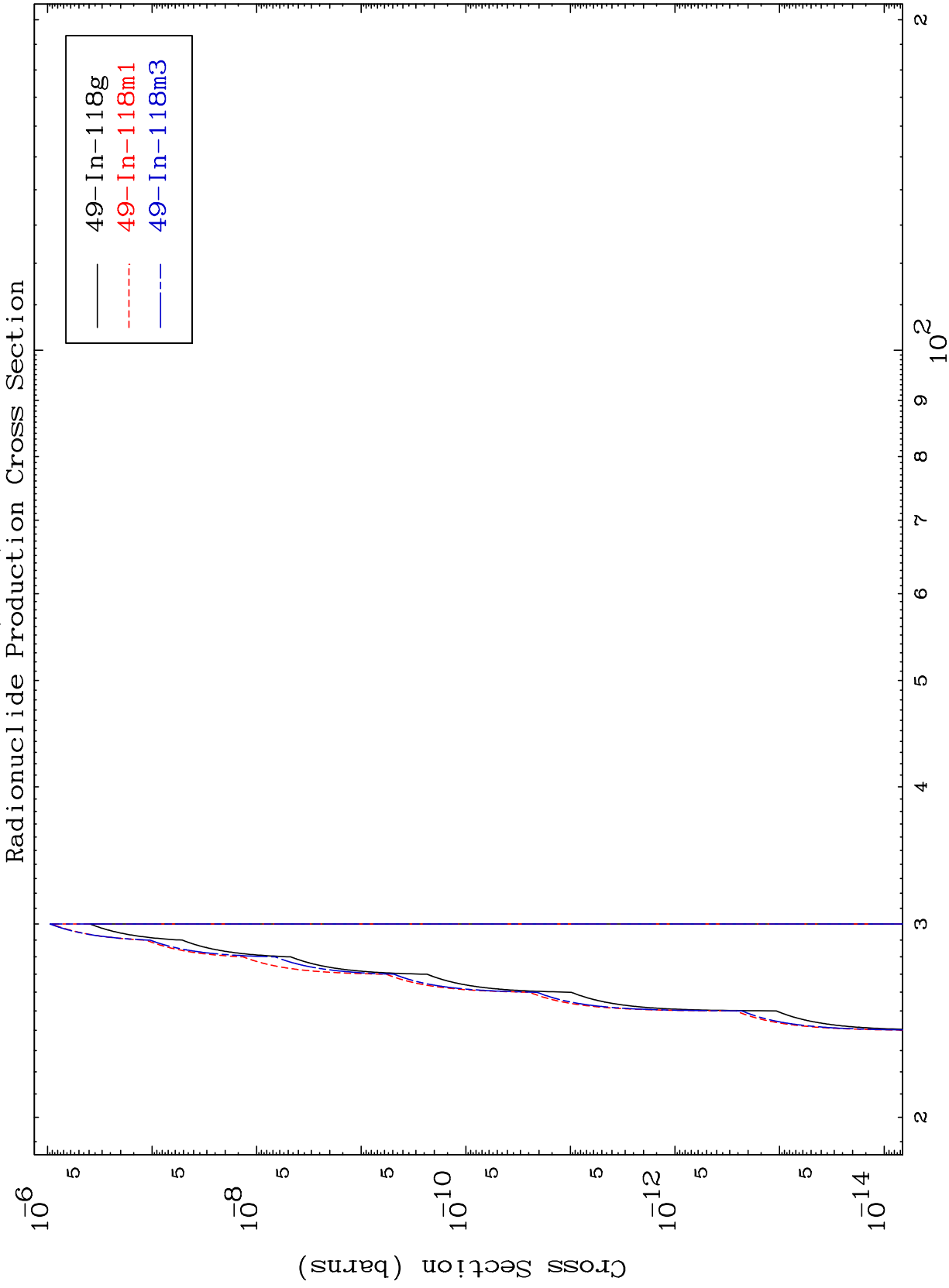
Incident Energy (MeV)

51-Sb-124

MAT 5134

(n,3n)  $\alpha$

51-Sb-124



125

Incident Energy (MeV)

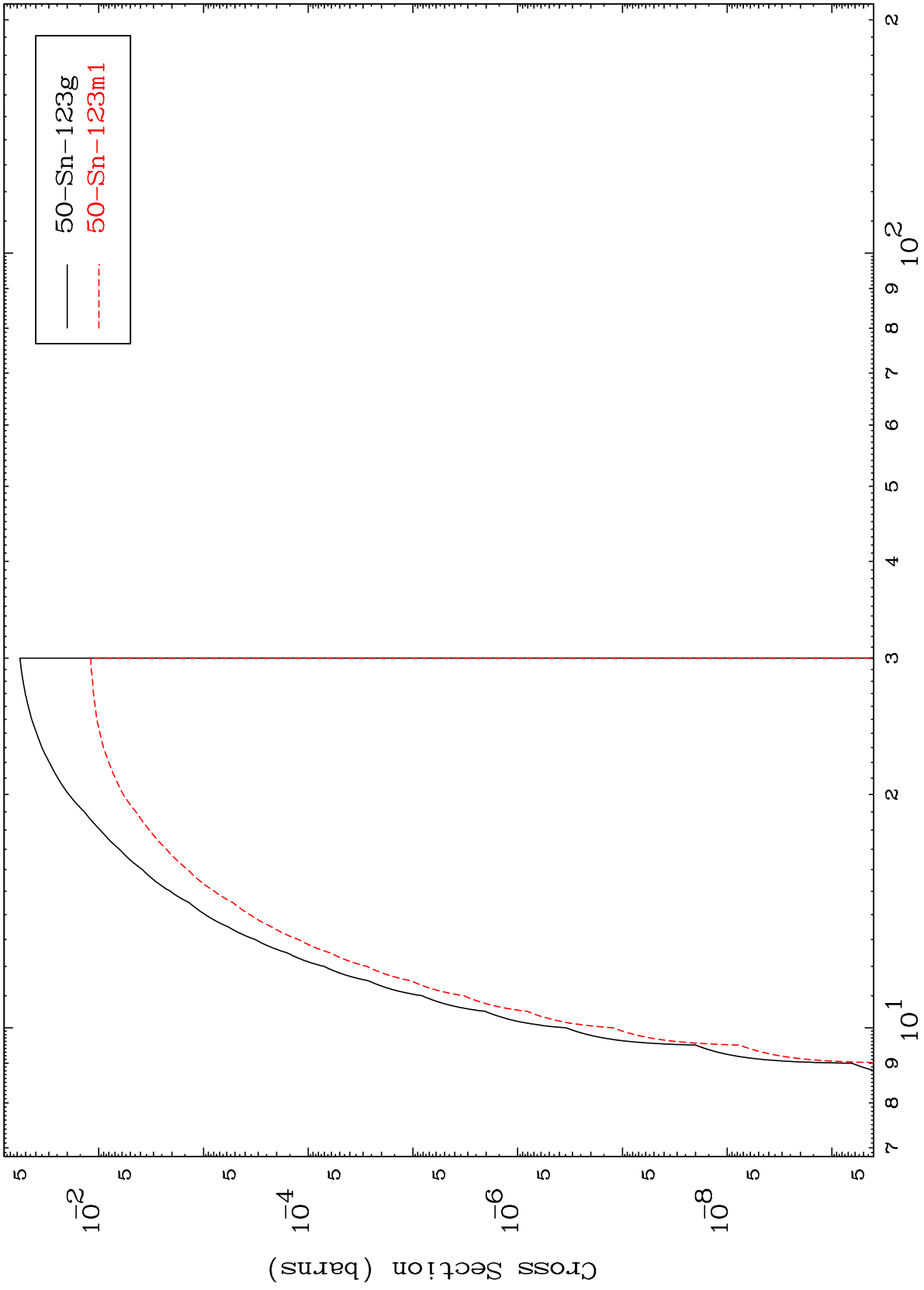
51-Sb-124

MAT 5134

(n,n') p

51-Sb-124

Radionuclide Production Cross Section



126

Incident Energy (MeV)

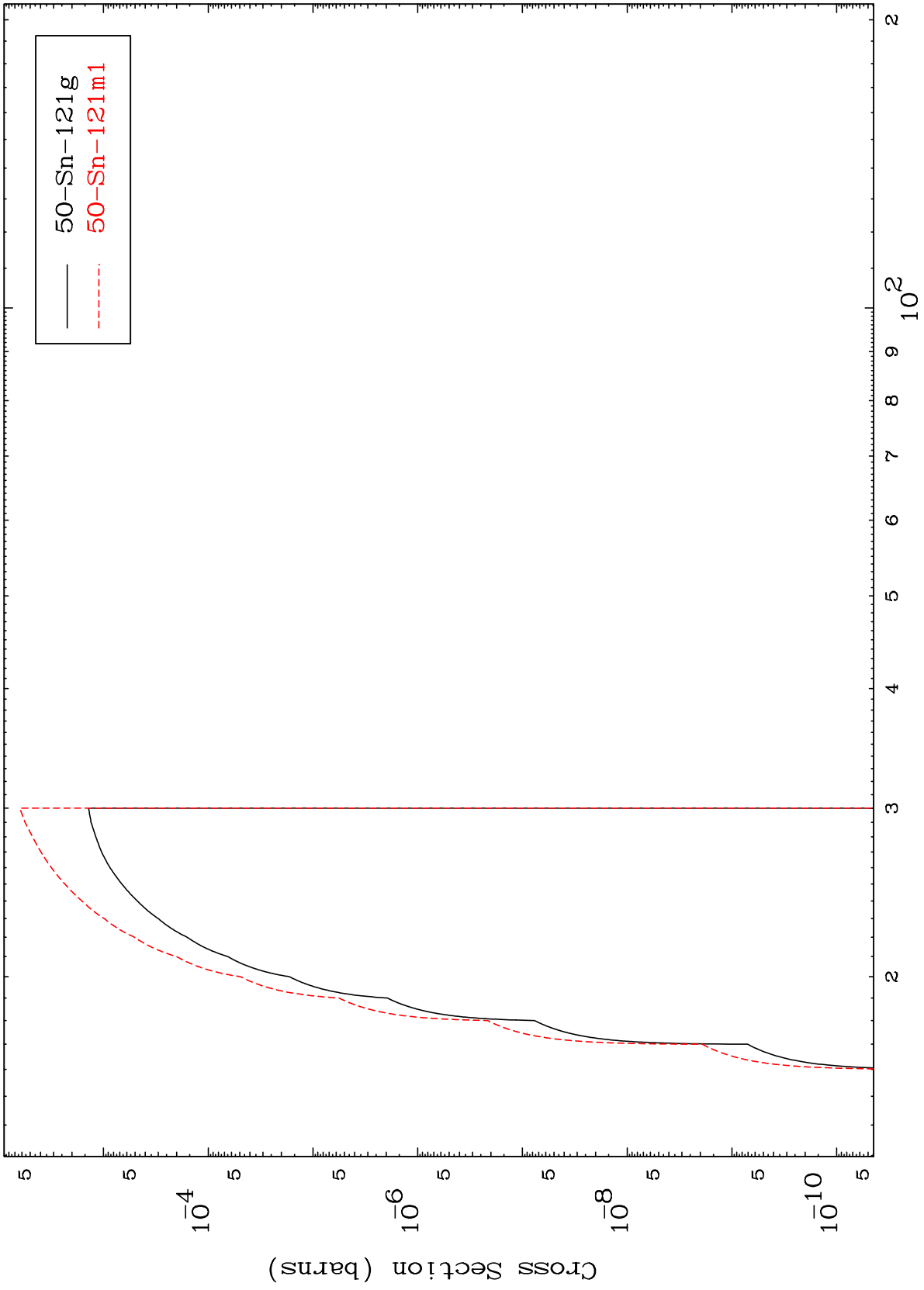
51-Sb-124

MAT 5134

(n,n') t

51-Sb-124

Radionuclide Production Cross Section



127

Incident Energy (MeV)

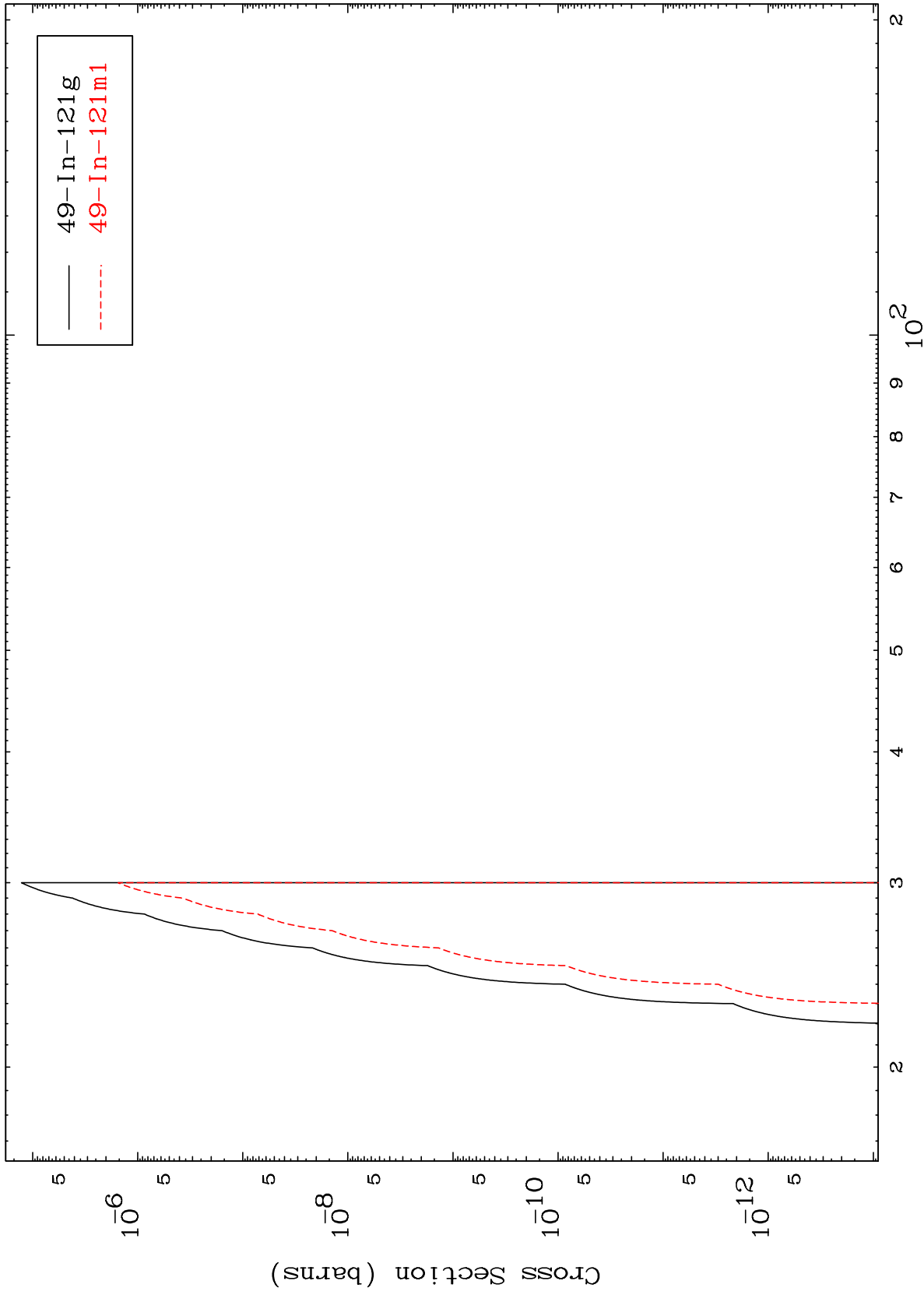
51-Sb-124

MAT 5134

(n, n') He-3

51-Sb-124

Radionuclide Production Cross Section



128

Incident Energy (MeV)

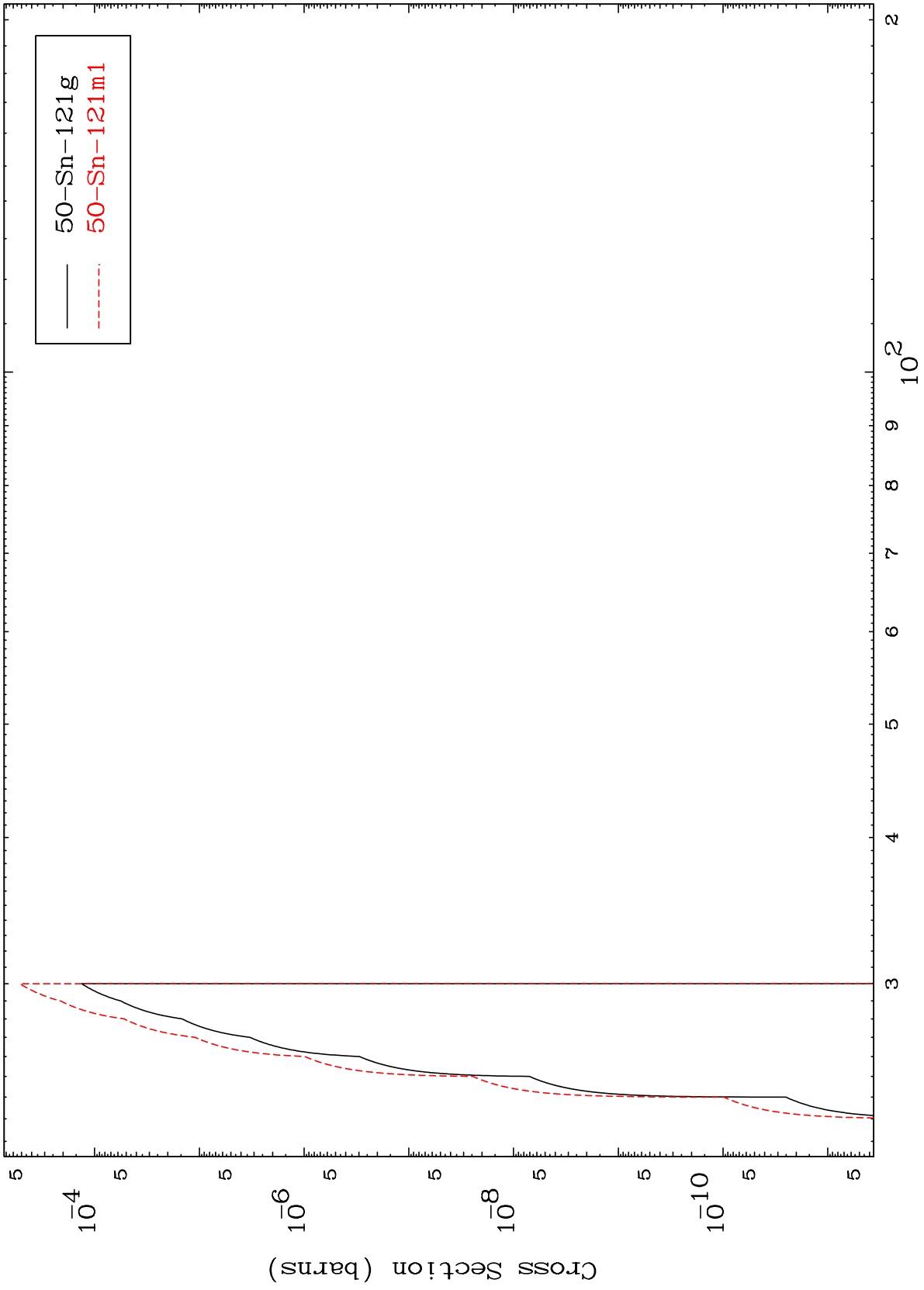
51-Sb-124

MAT 5134

(n,3n) p

51-Sb-124

Radionuclide Production Cross Section



129

Incident Energy (MeV)

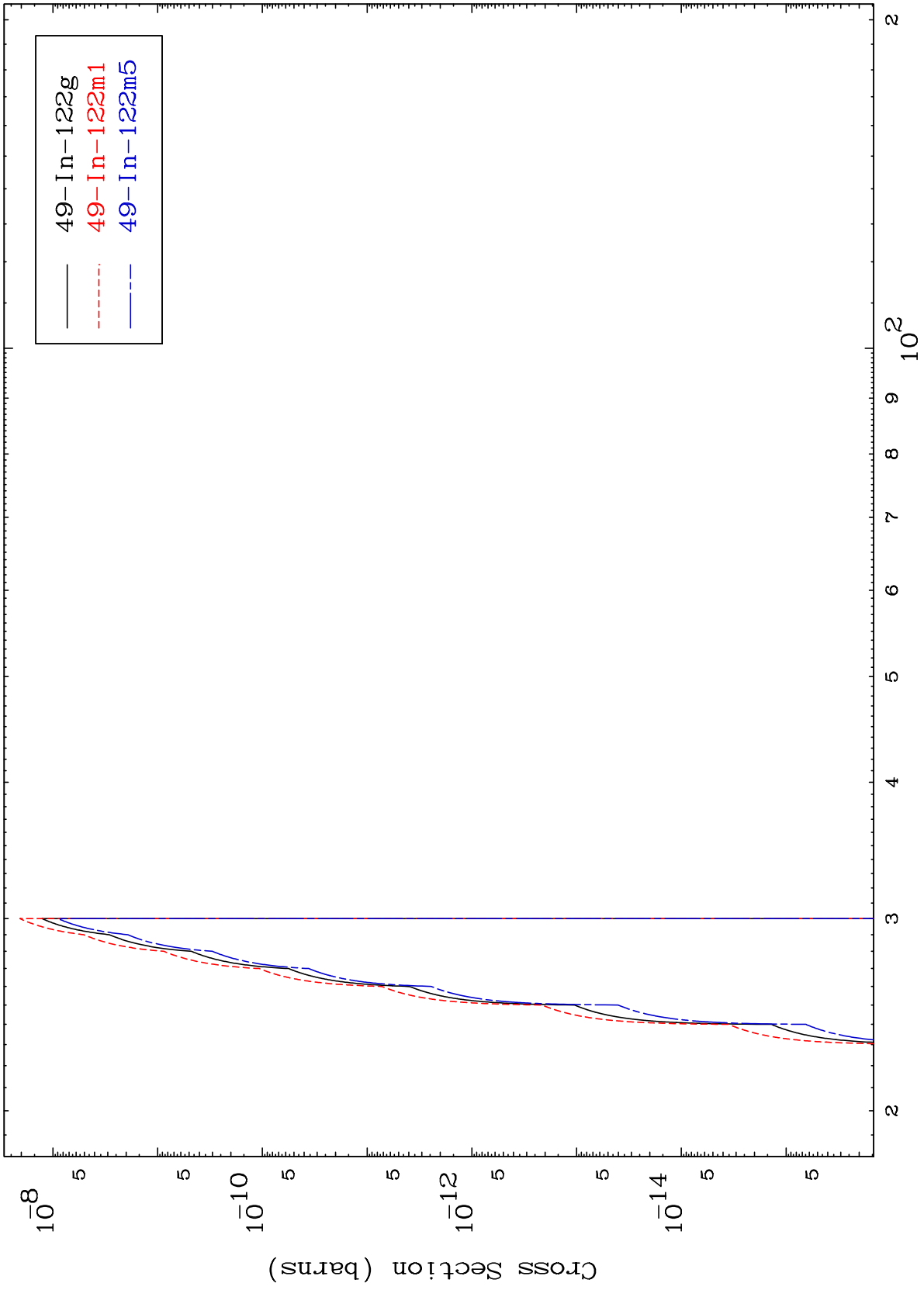
51-Sb-124

MAT 5134

(n,2n) p

51-Sb-124

Radionuclide Production Cross Section



130

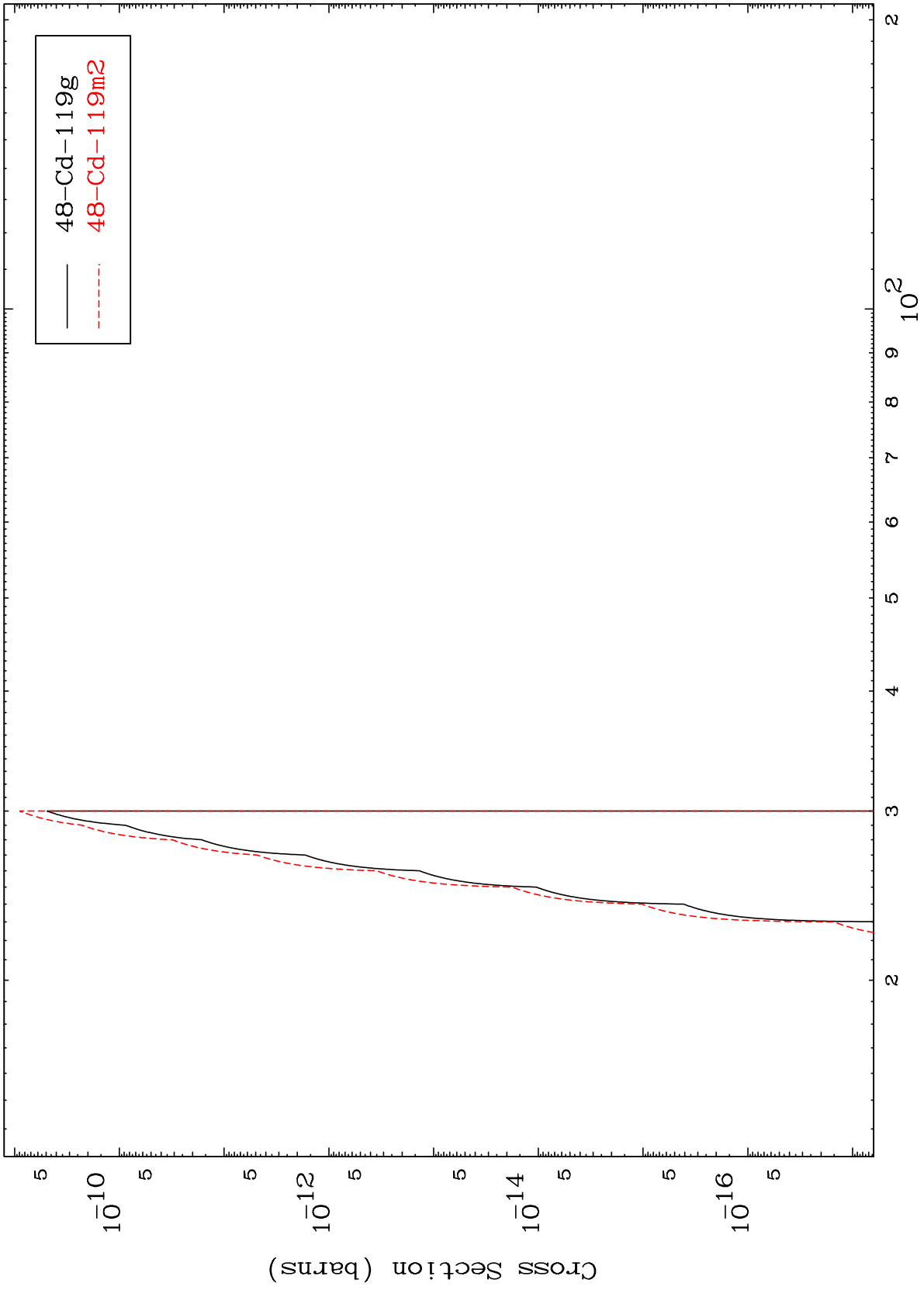
Incident Energy (MeV)

51-Sb-124

MAT 5134

51-Sb-124

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



131

51-Sb-124

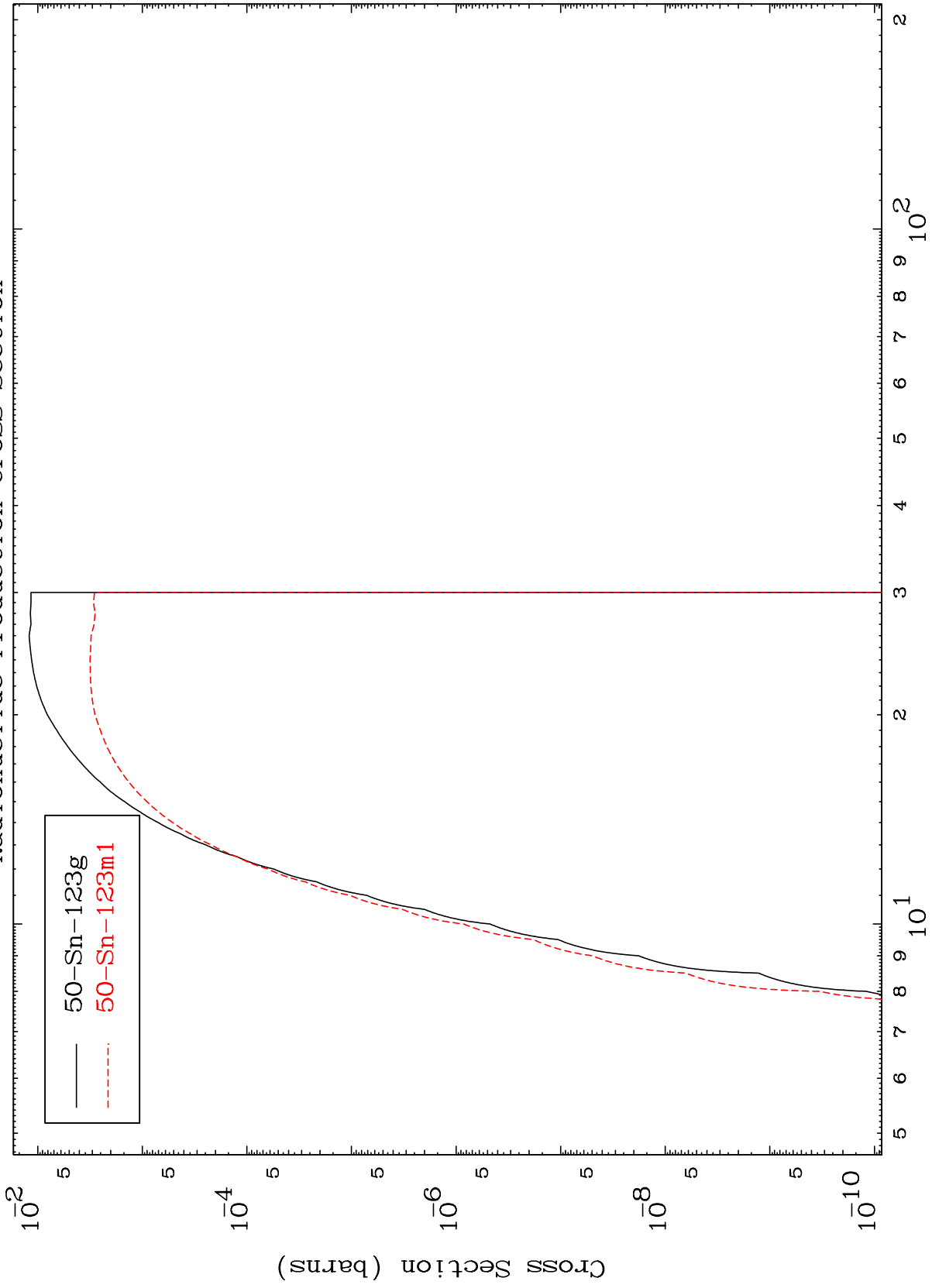
Incident Energy (MeV)

MAT 5134

(n,d)

51-Sb-124

Radionuclide Production Cross Section



132

Incident Energy (MeV)

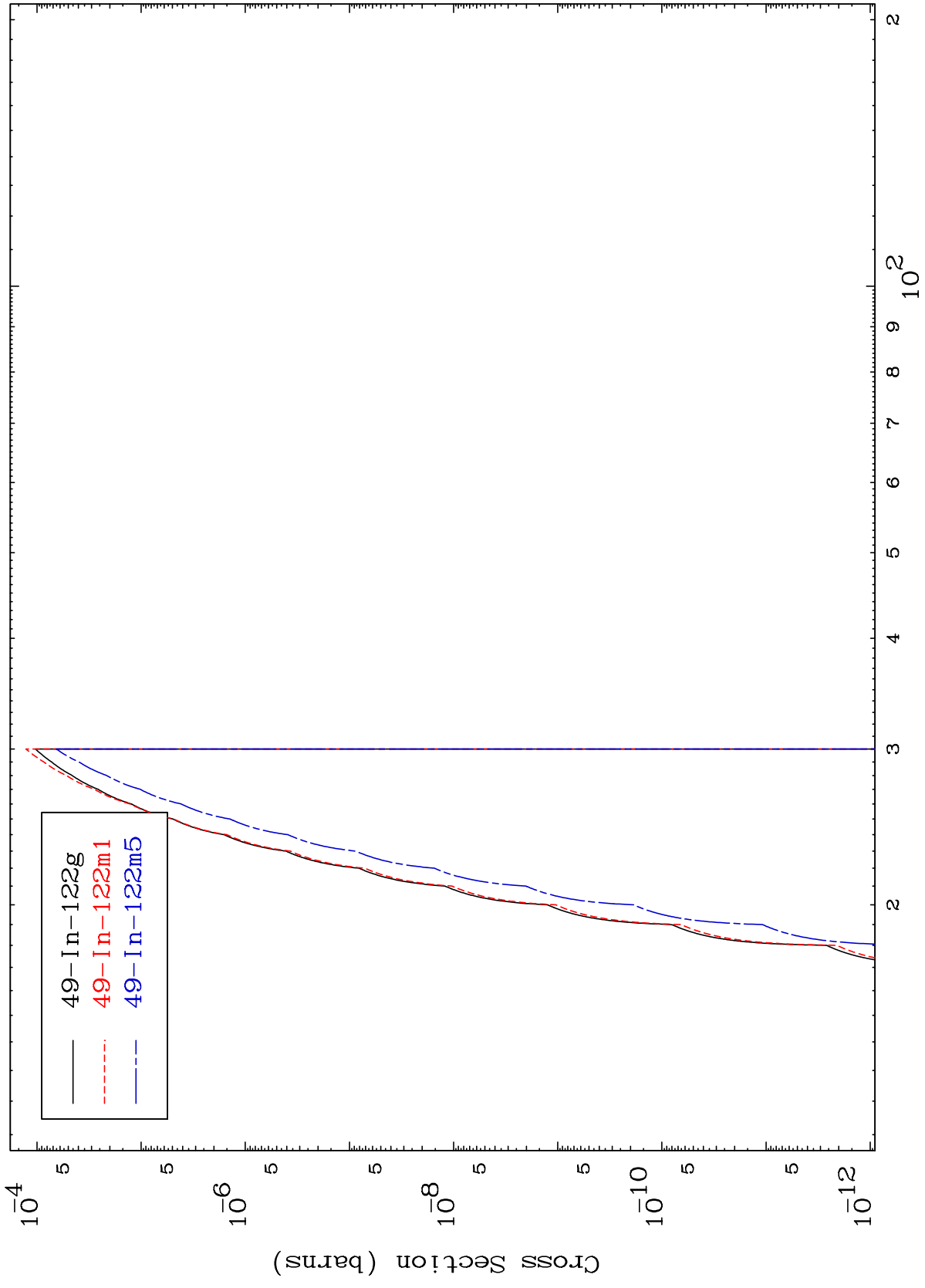
51-Sb-124

MAT 5134

(n,He-3)

51-Sb-124

Radionuclide Production Cross Section



133

Incident Energy (MeV)

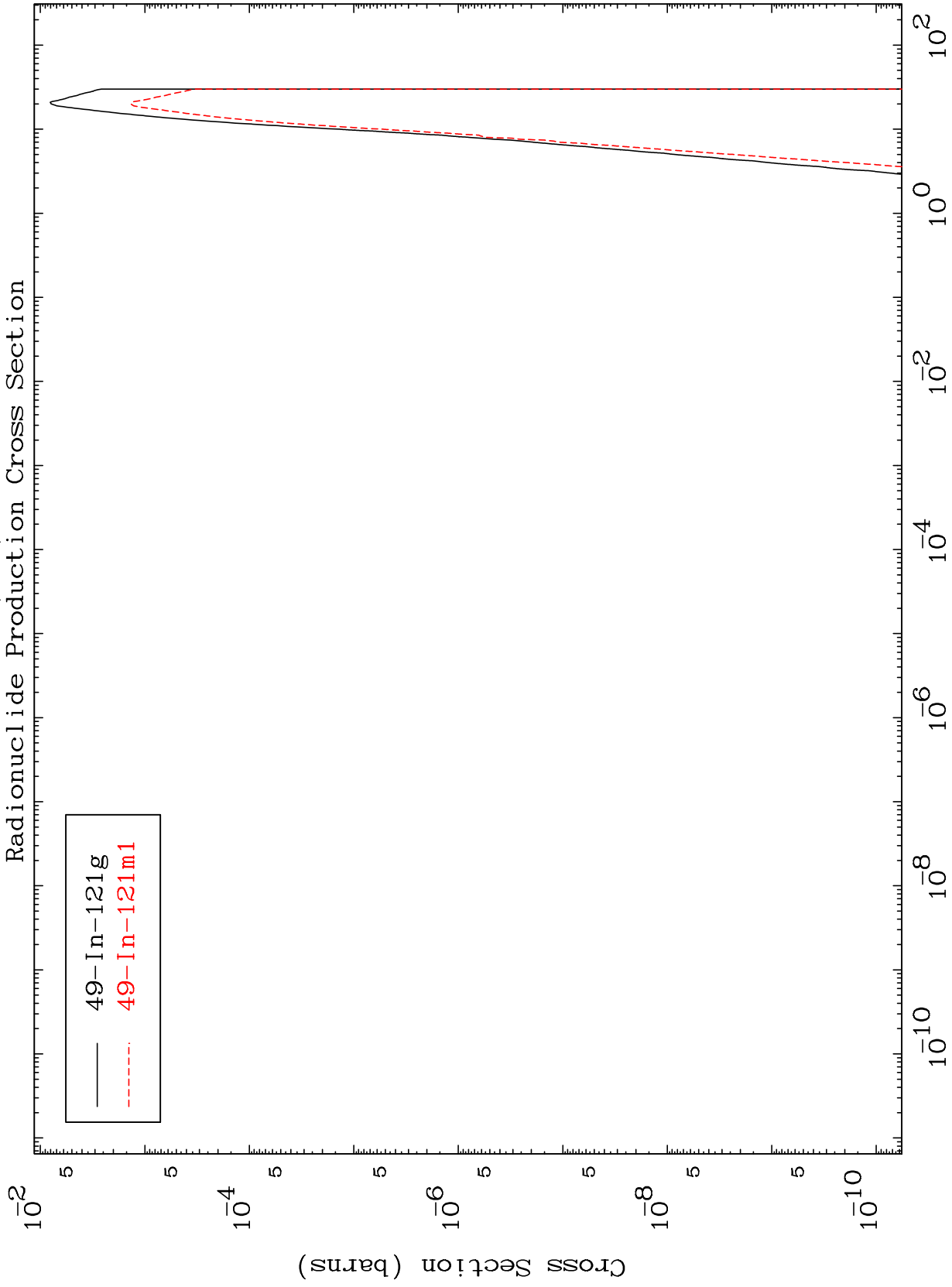
51-Sb-124

MAT 5134

(n,α)

51-Sb-124

Radionuclide Production Cross Section



134

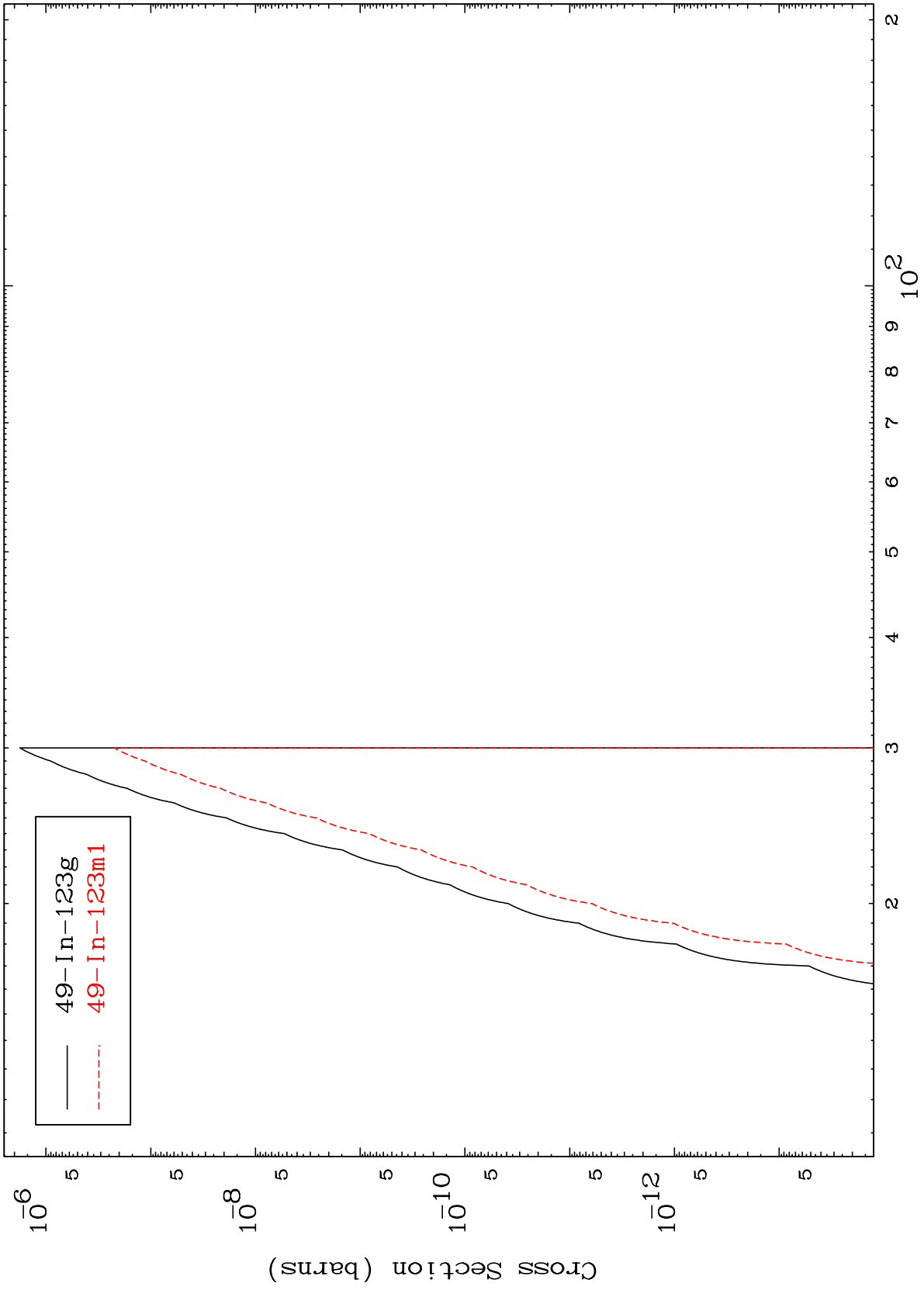
Incident Energy (MeV)

51-Sb-124

MAT 5134

51-Sb-124

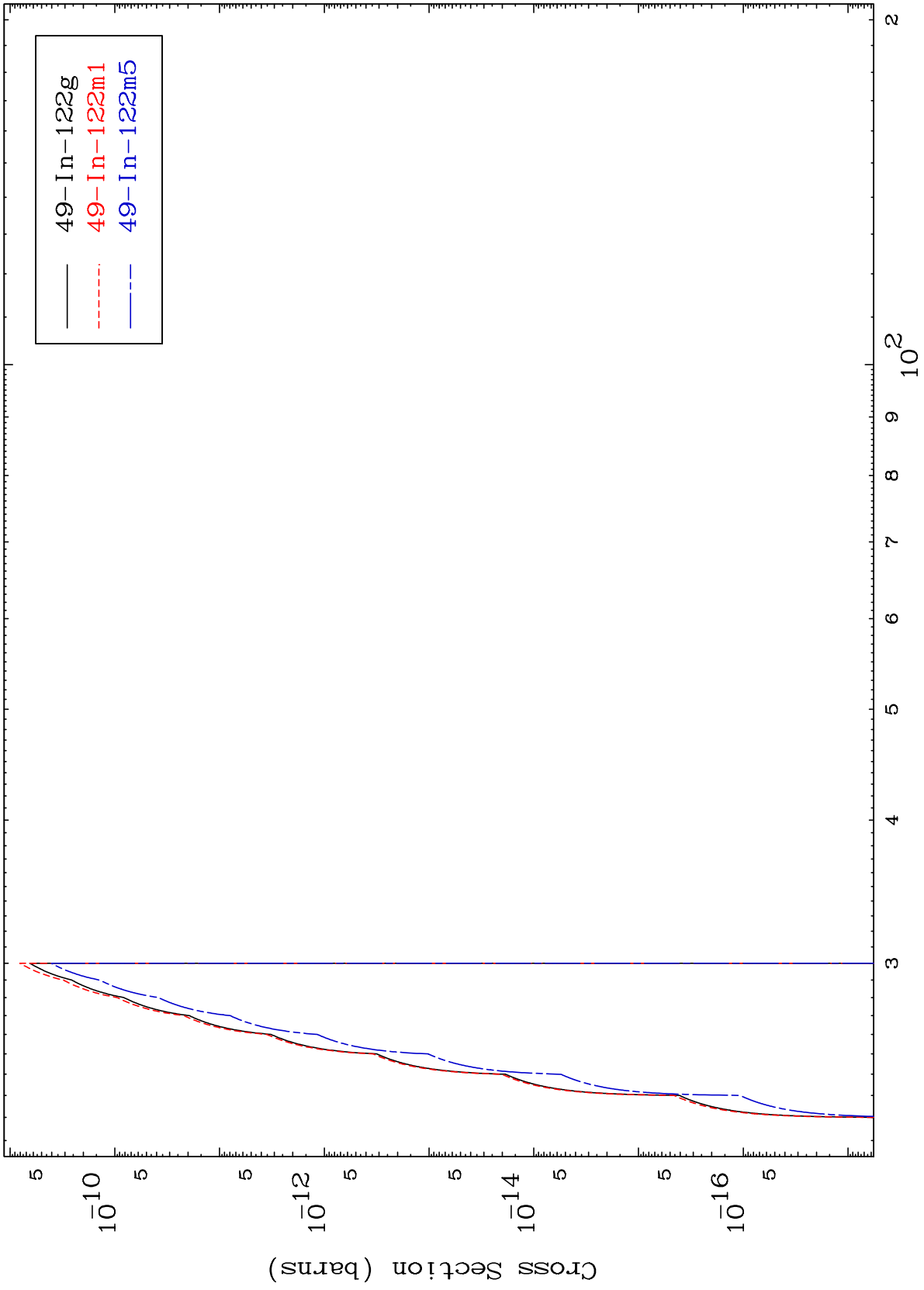
(n,2p)  
Radionuclide Production Cross Section



135

51-Sb-124

Radionuclide Production Cross Section

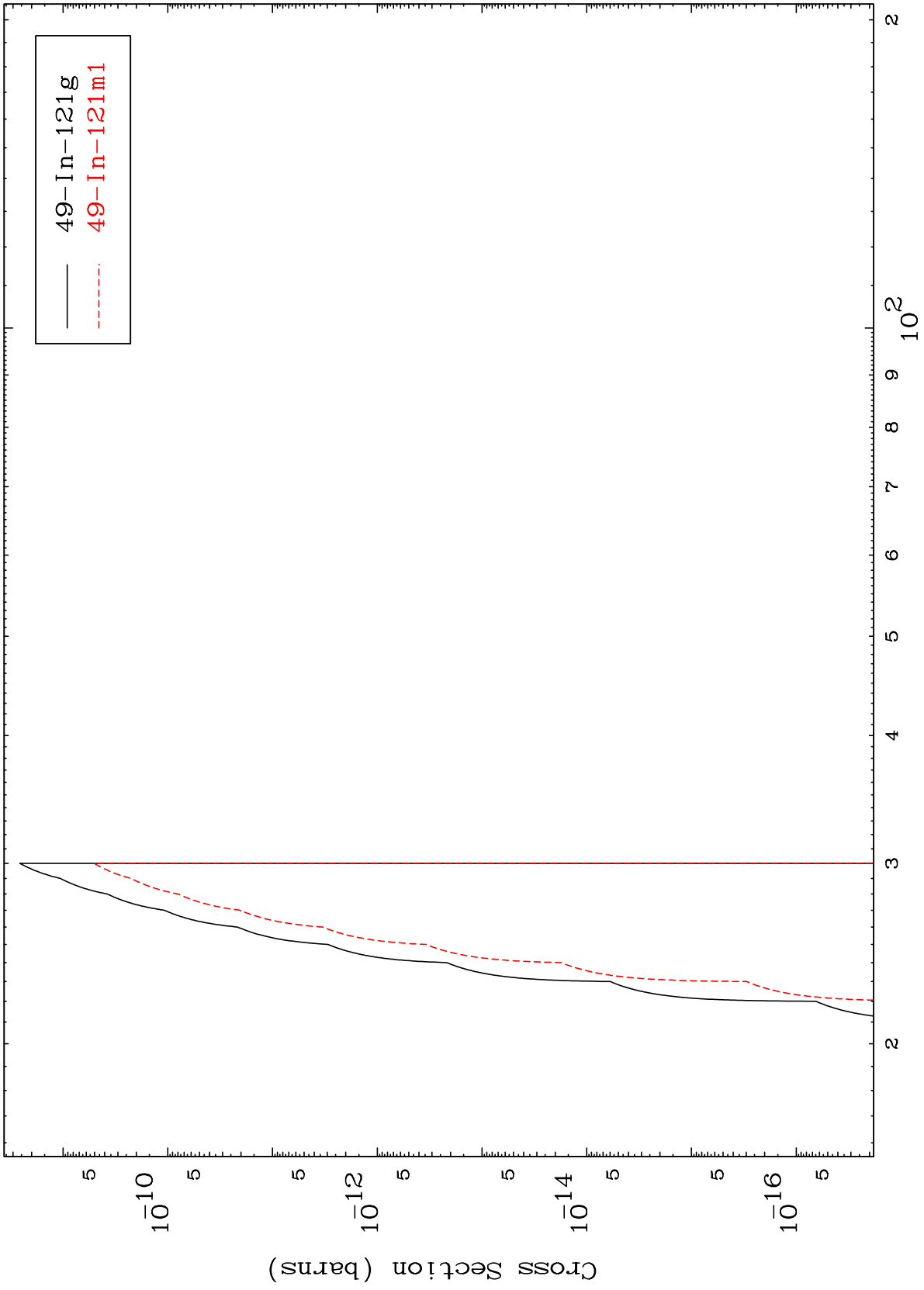


MAT 5134

(n,p) t

51-Sb-124

Radionuclide Production Cross Section



137

Incident Energy (MeV)

51-Sb-124