

Program EVALPLOT
(Version 2017-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.

Tele: 925-443-1911

E.Mail:redcullen1@comcast.net

Web:redcullen1.net/HOMEPAGE.NEW

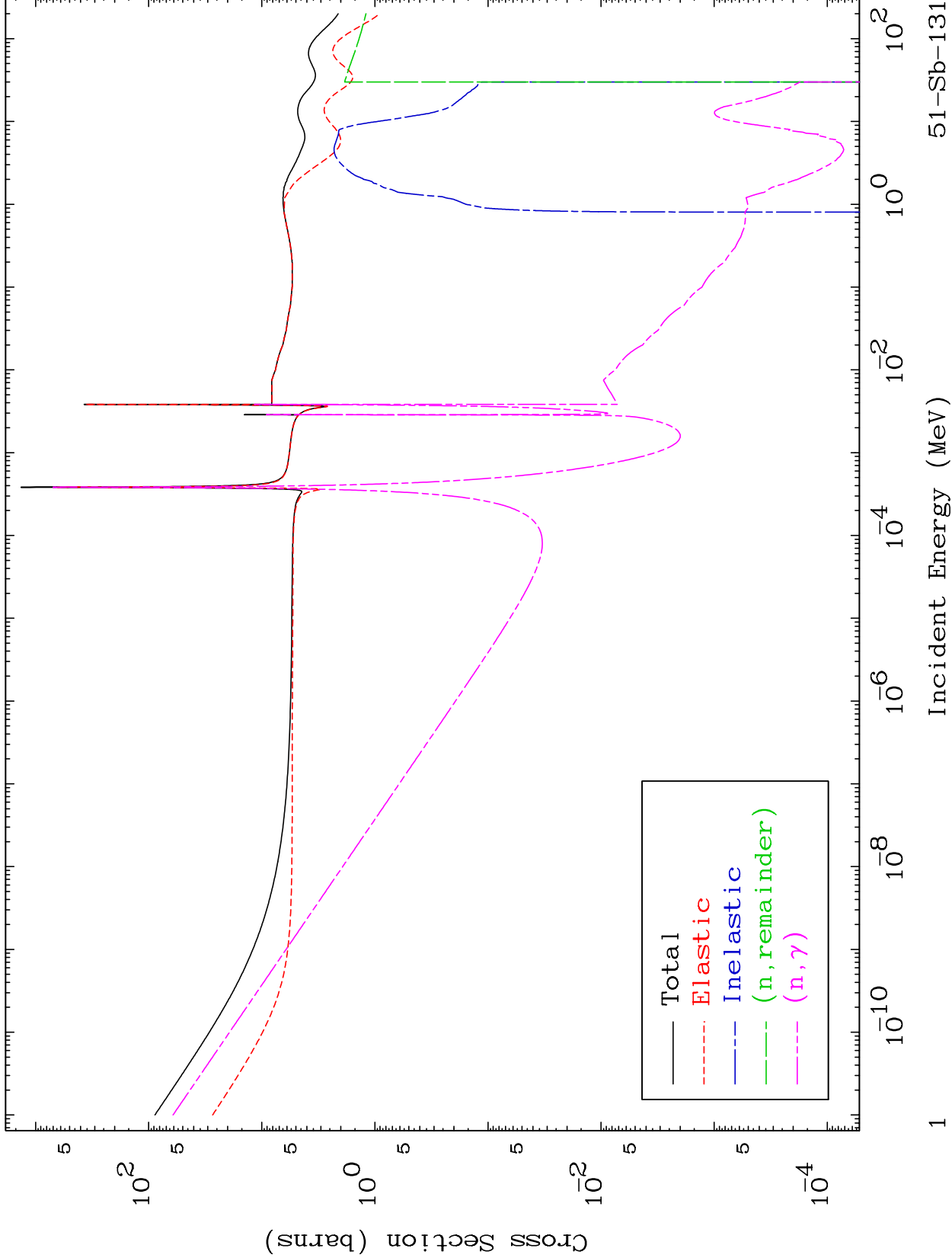
Press Mouse Button to Start

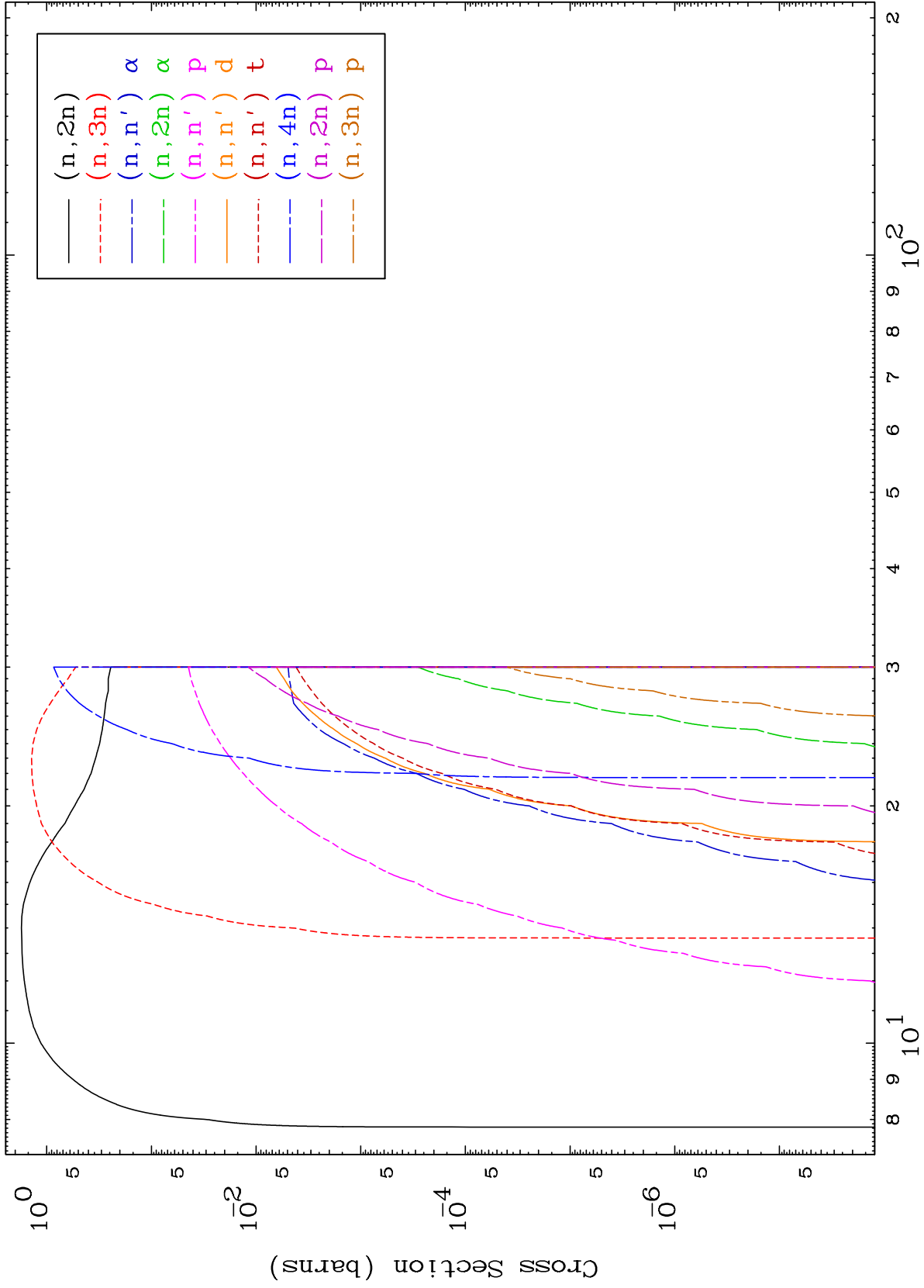
MAT 5155

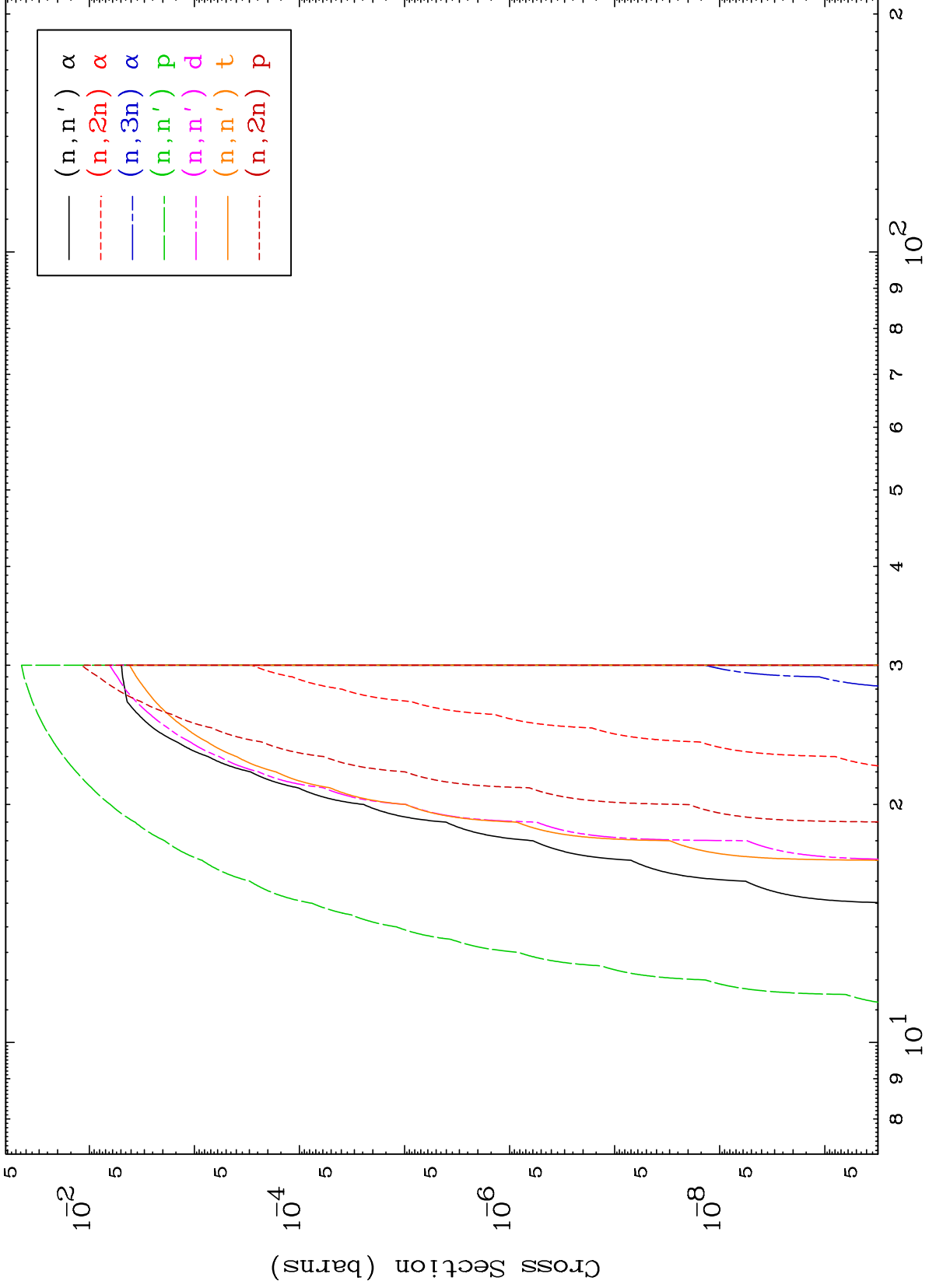
Major

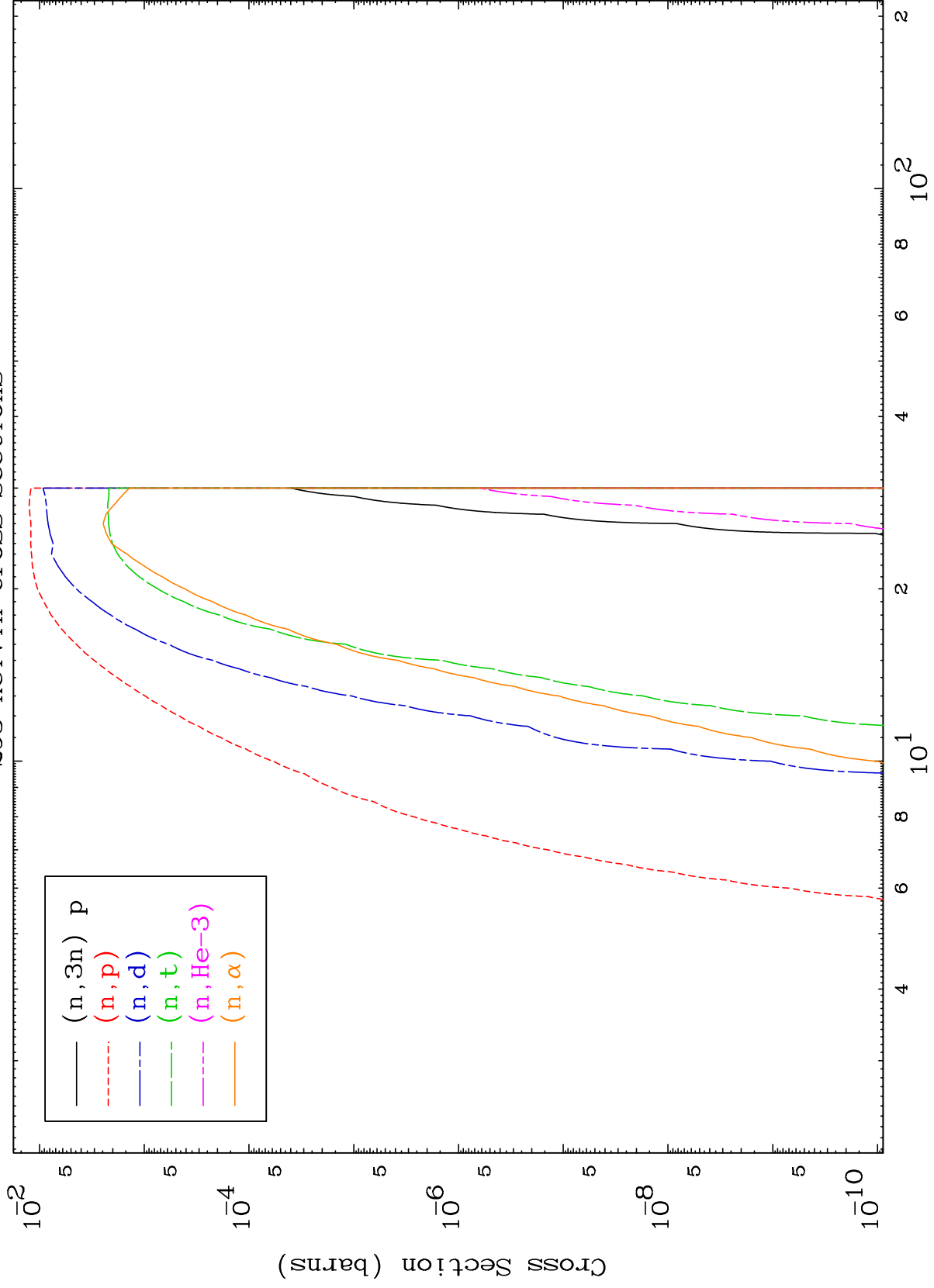
293 Kelvin Cross Sections

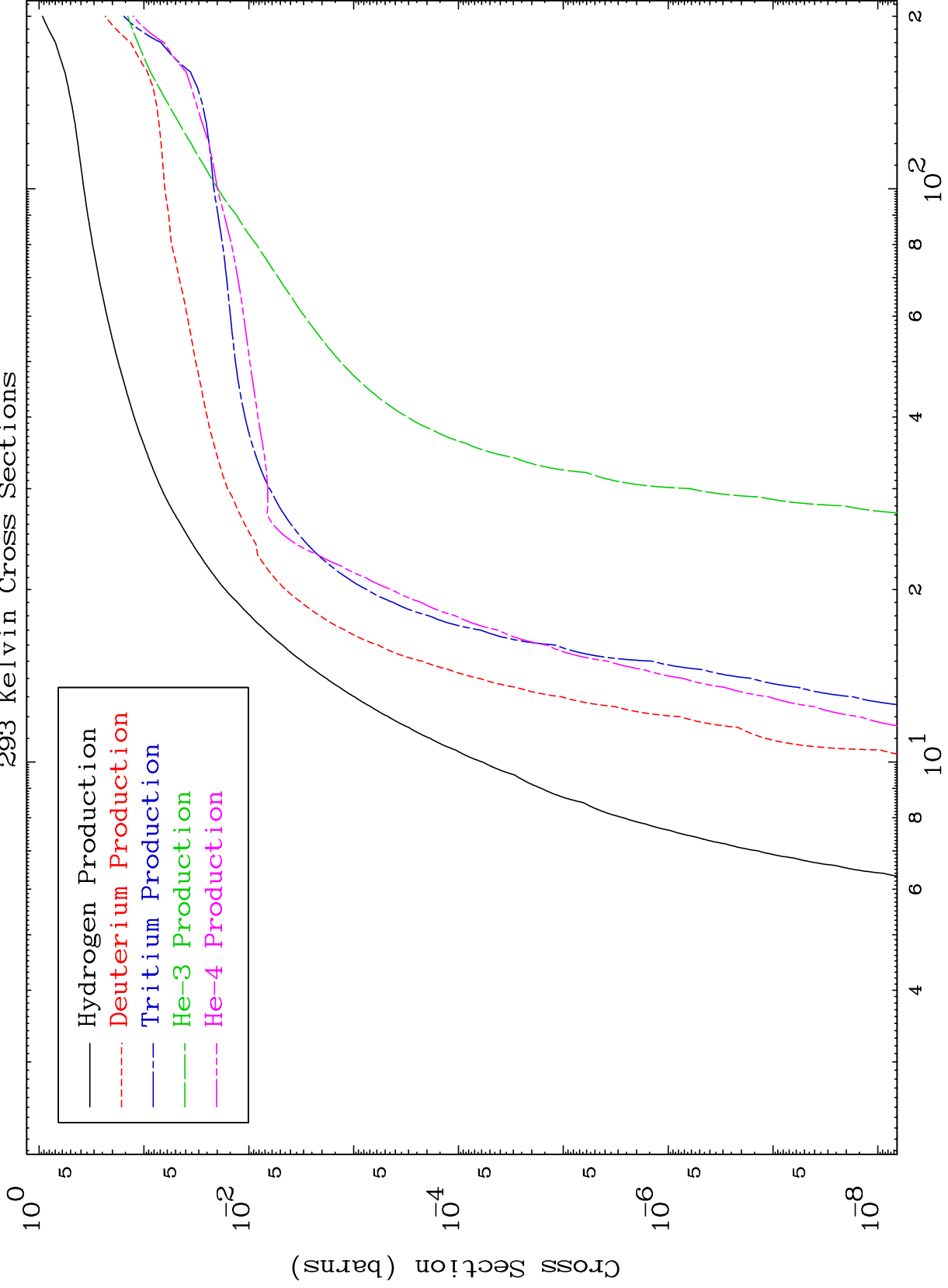
51-Sb-131









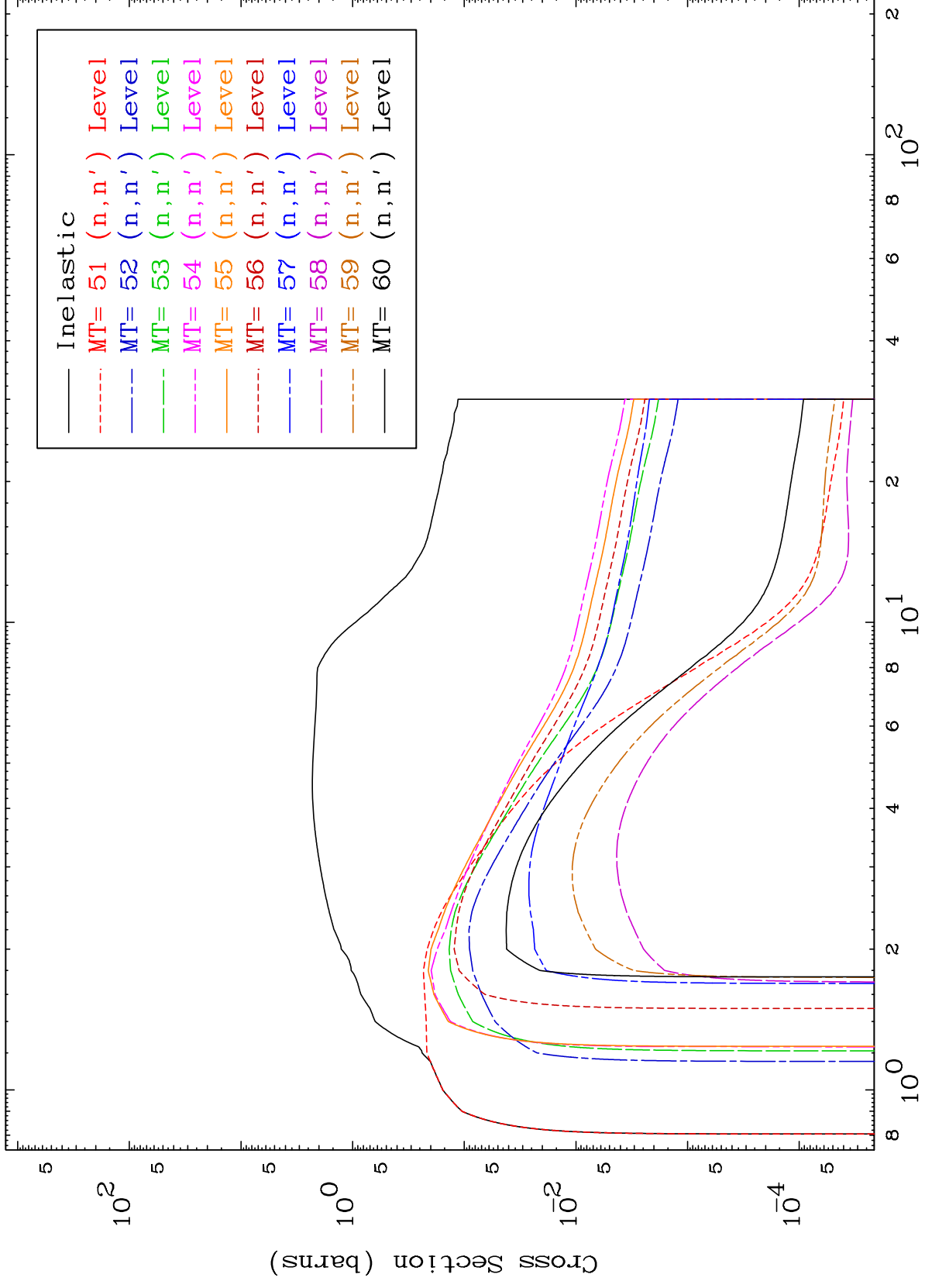


MAT 5155

(n,n') Level

51-Sb-131

293 Kelvin Cross Sections



Incident Energy (MeV)

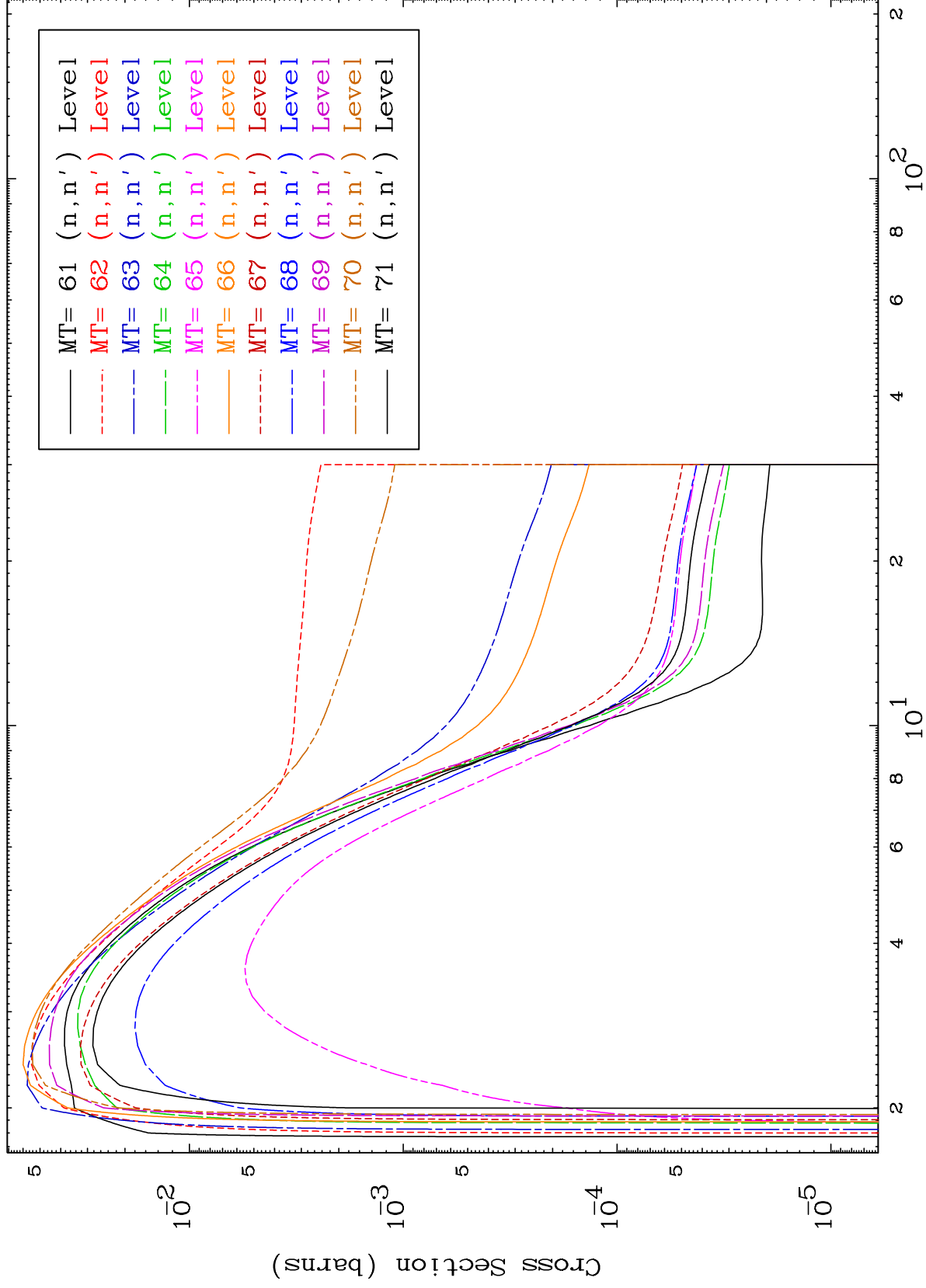
51-Sb-131

MAT 5155

(n,n') Level

293 Kelvin Cross Sections

51-Sb-131



7

Incident Energy (MeV)

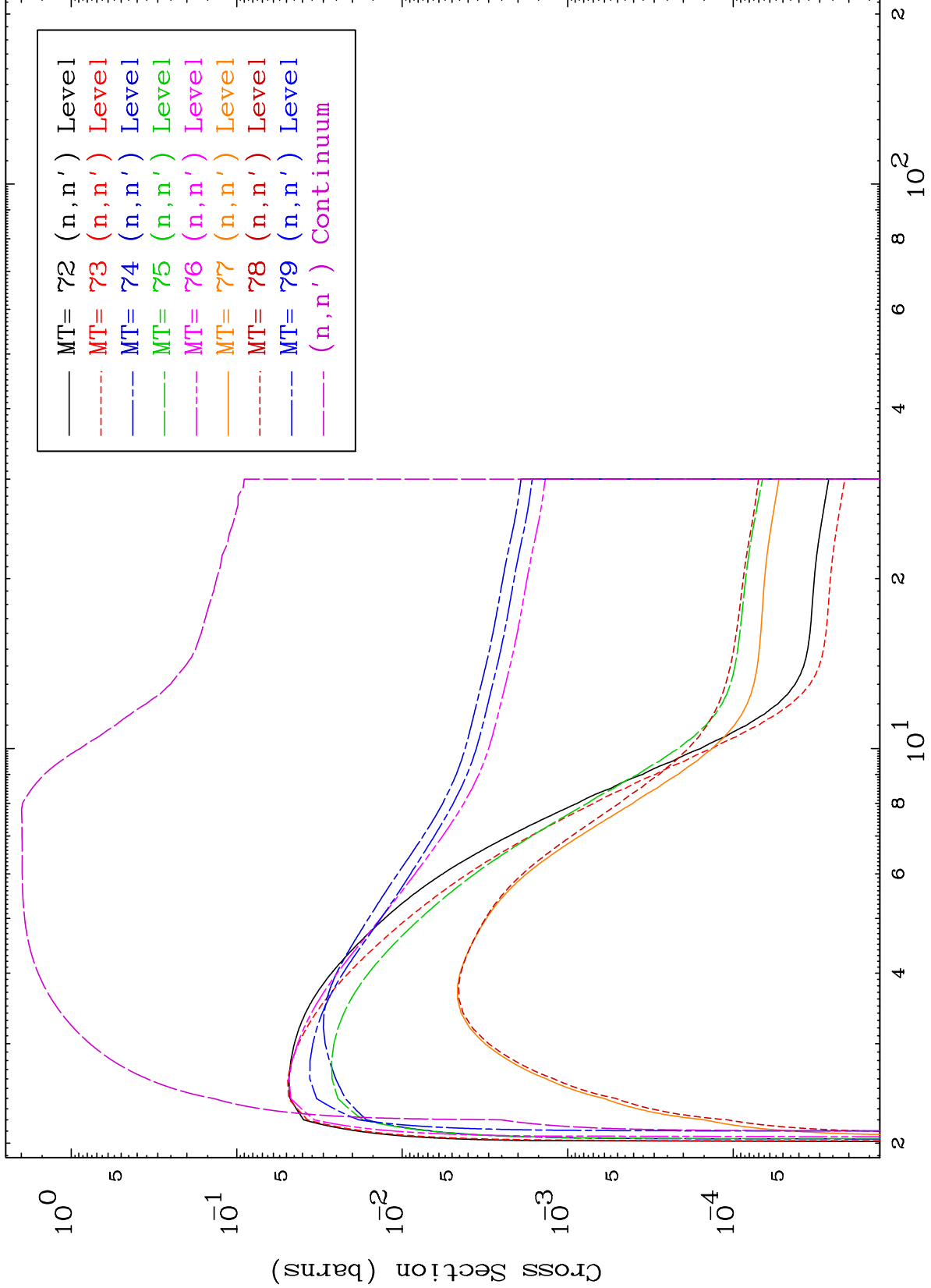
51-Sb-131

MAT 5155

(n,n') Level

51-Sb-131

293 Kelvin Cross Sections



8

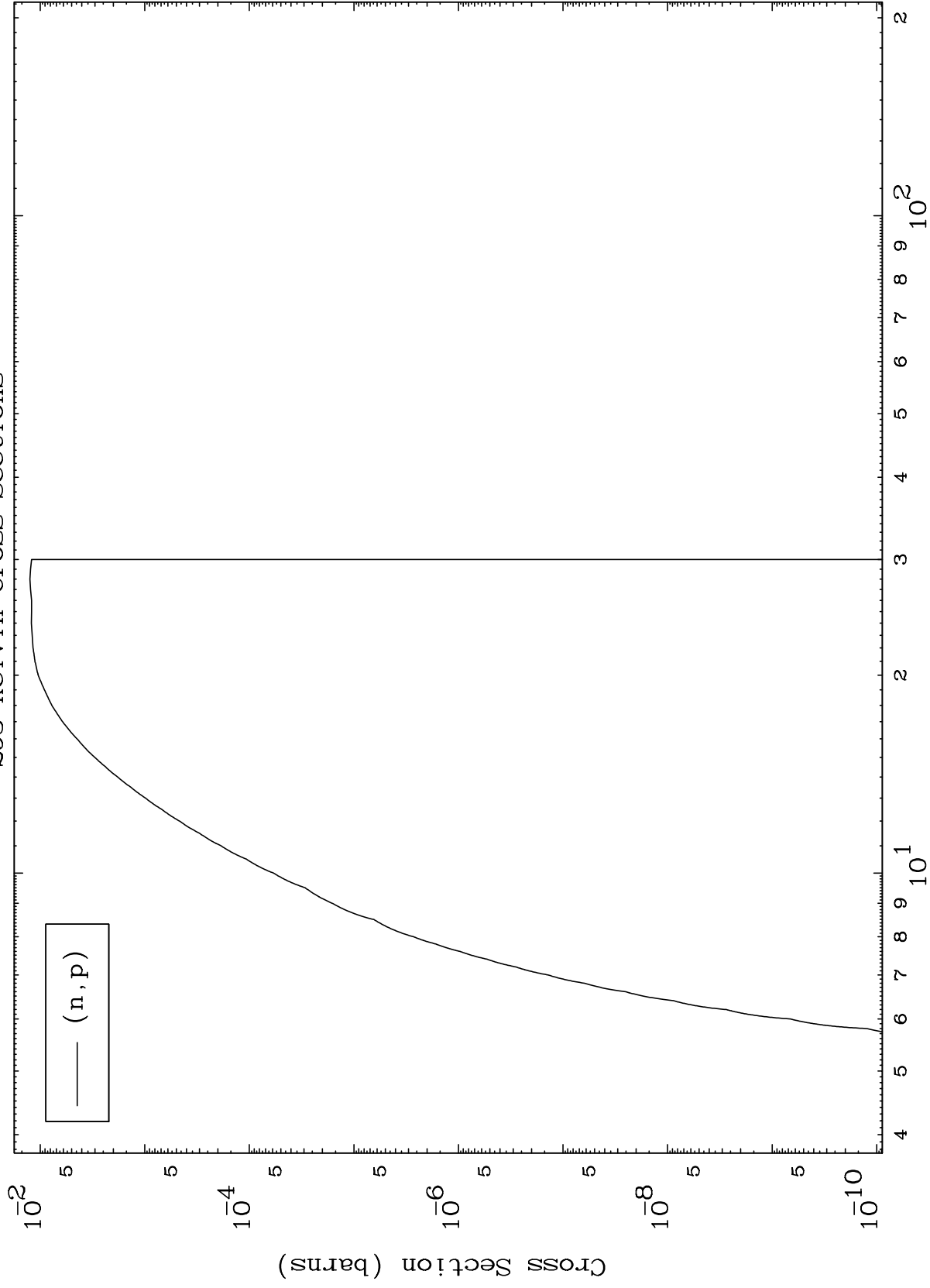
Incident Energy (MeV)

51-Sb-131

MAT 5155

(n,p) Levels
293 Kelvin Cross Sections

51-Sb-131



9

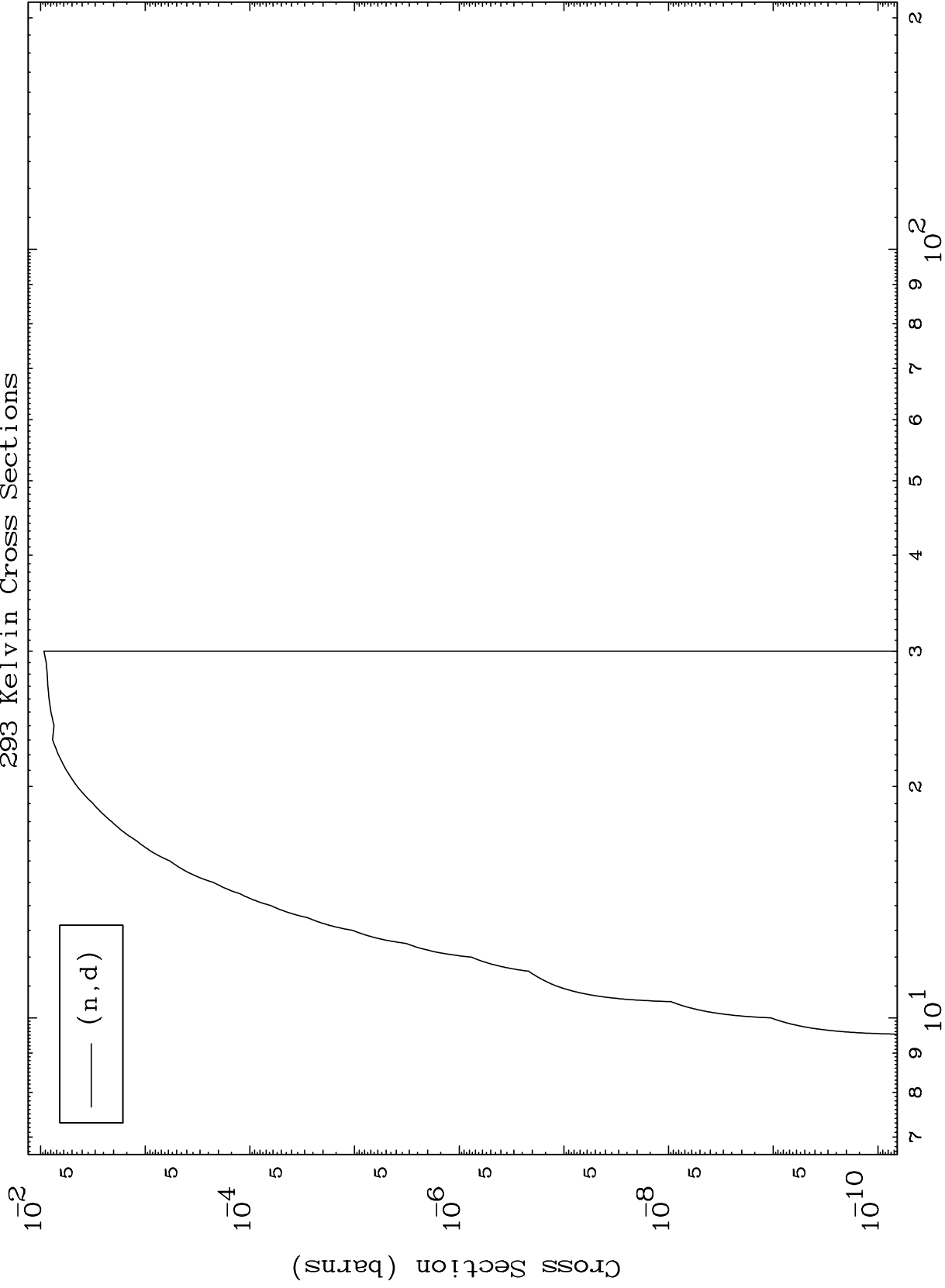
Incident Energy (MeV)

51-Sb-131

MAT 5155

(n,d) Levels
293 Kelvin Cross Sections

51-Sb-131



10

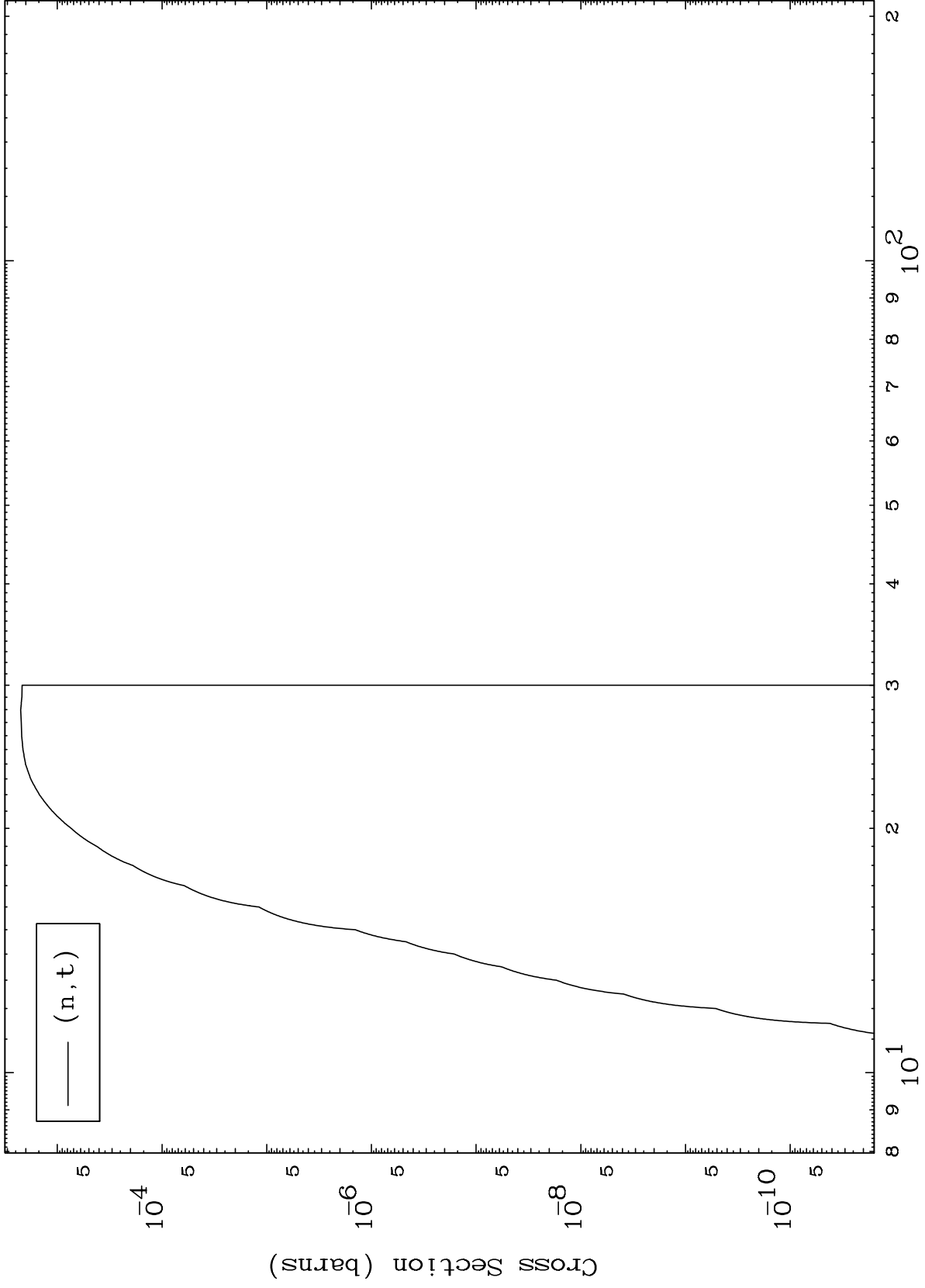
Incident Energy (MeV)

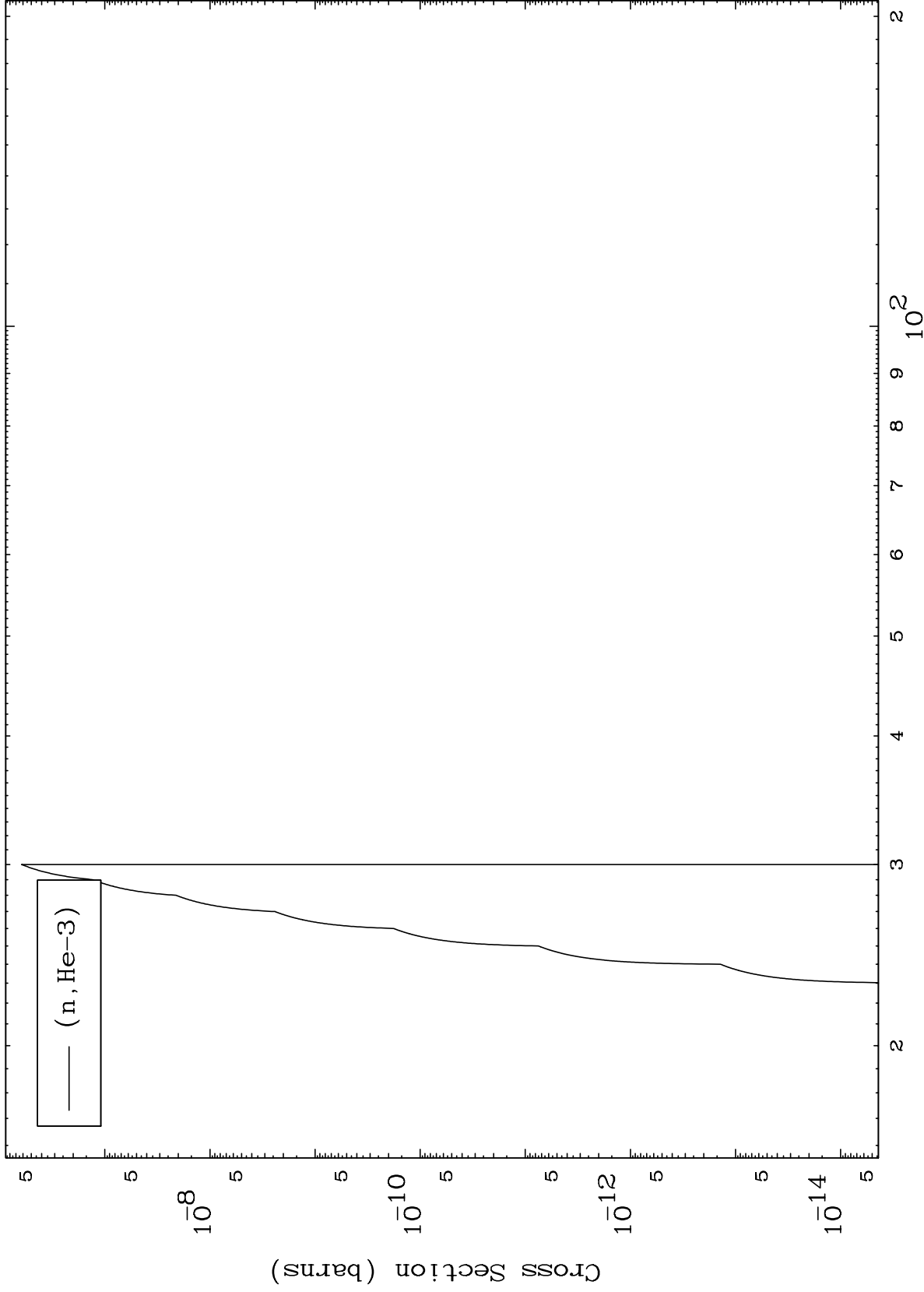
51-Sb-131

MAT 5155

(n,t) Levels
293 Kelvin Cross Sections

51-Sb-131

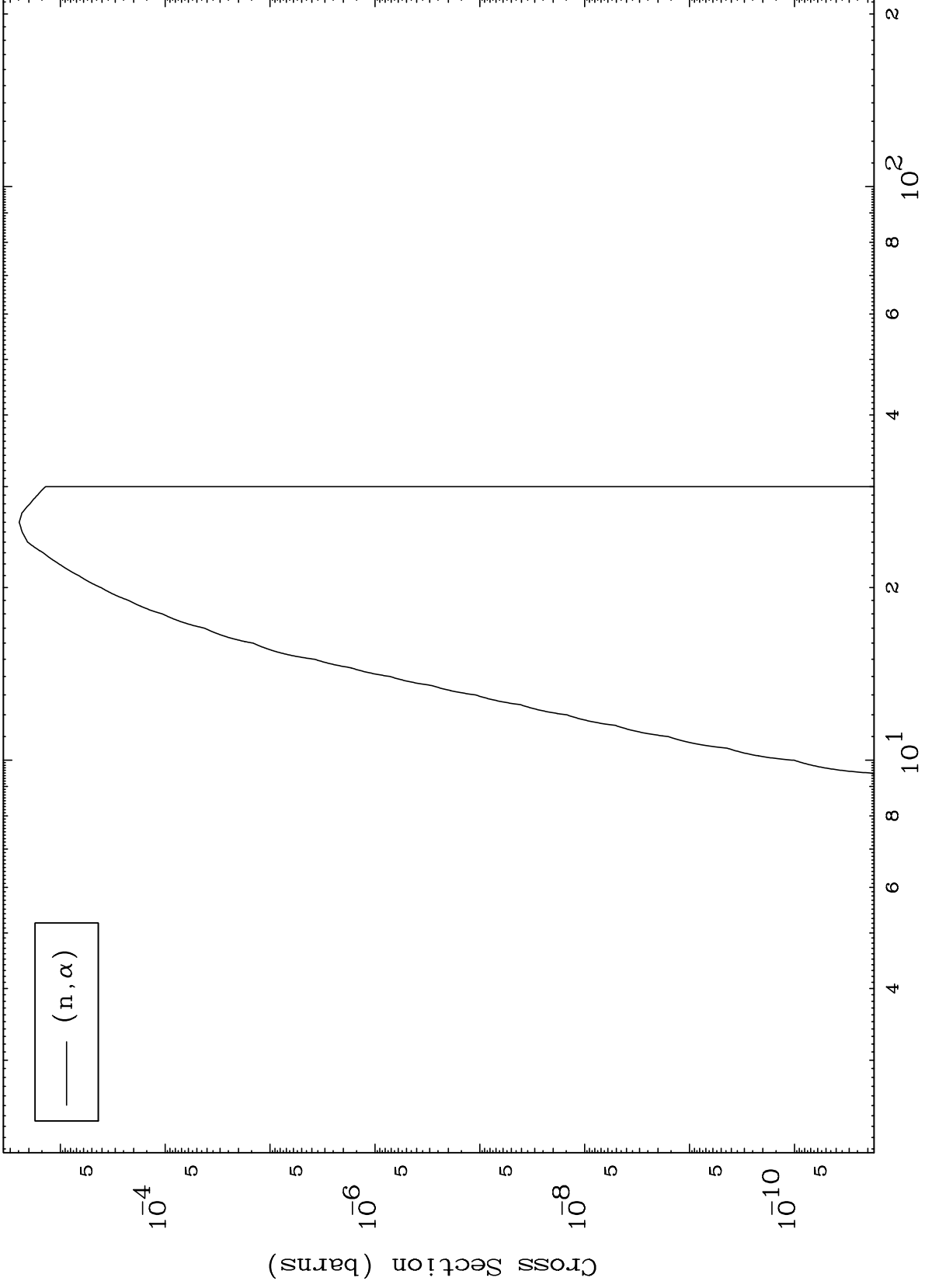




MAT 5155

(n, α) Levels
293 Kelvin Cross Sections

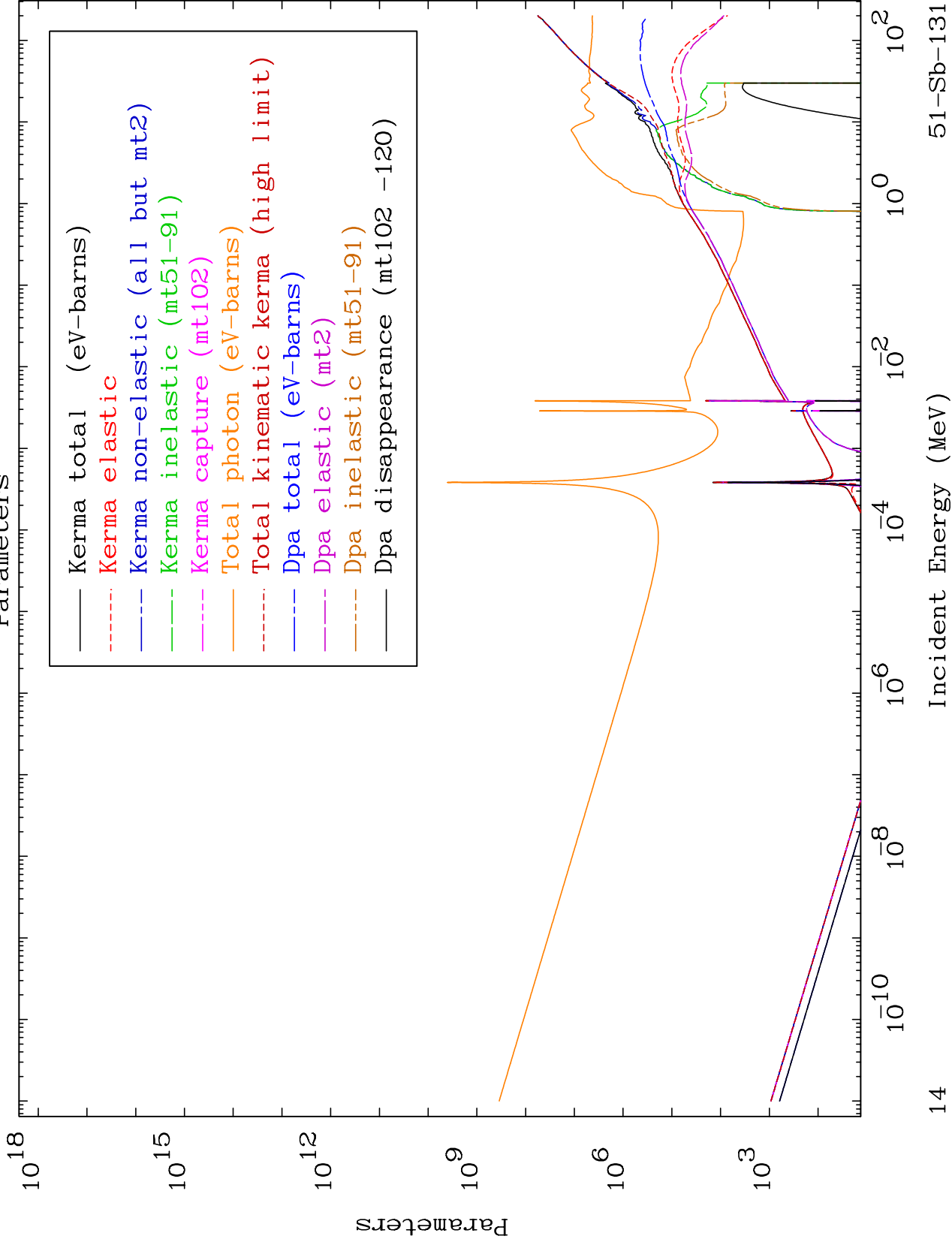
51-Sb-131

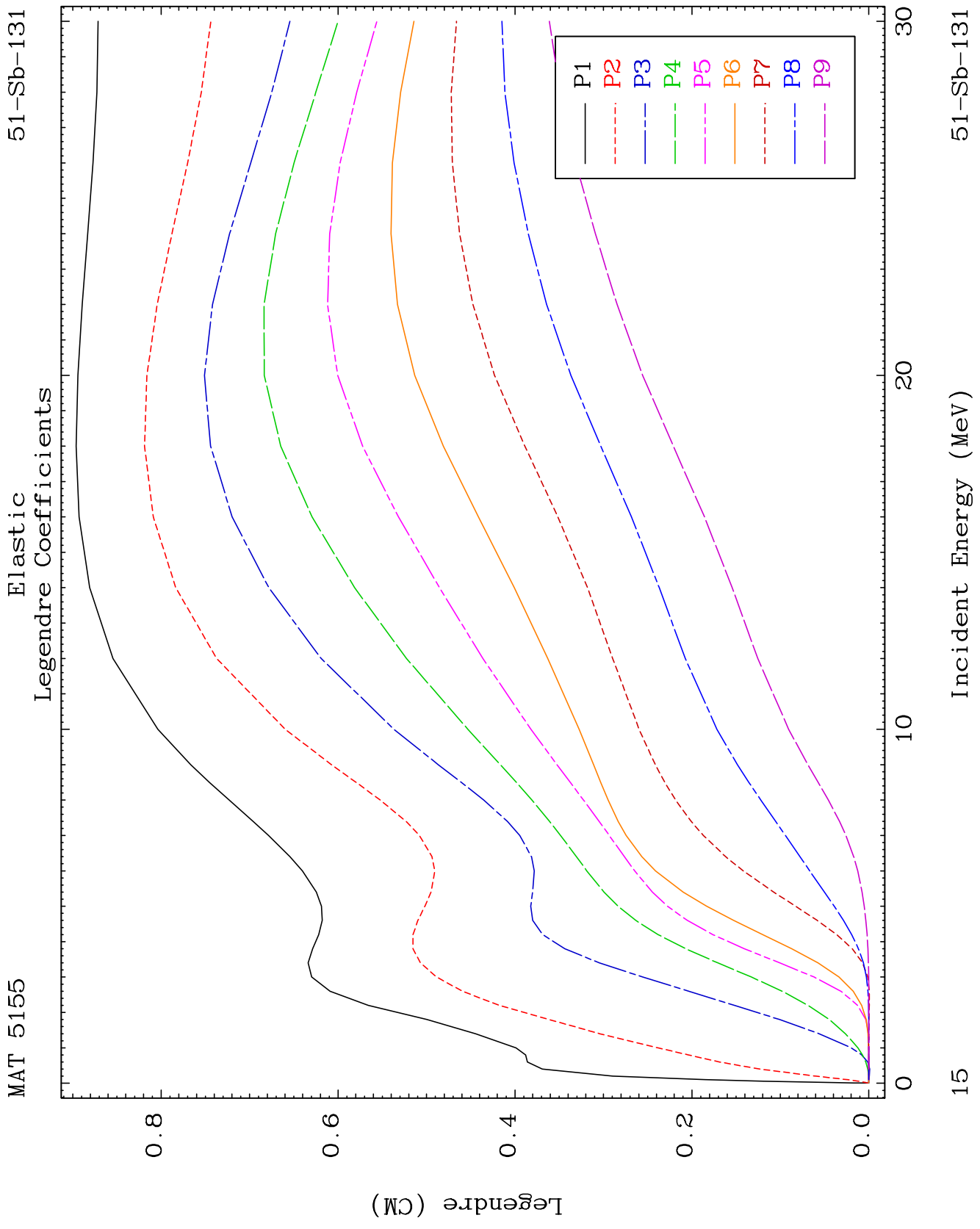


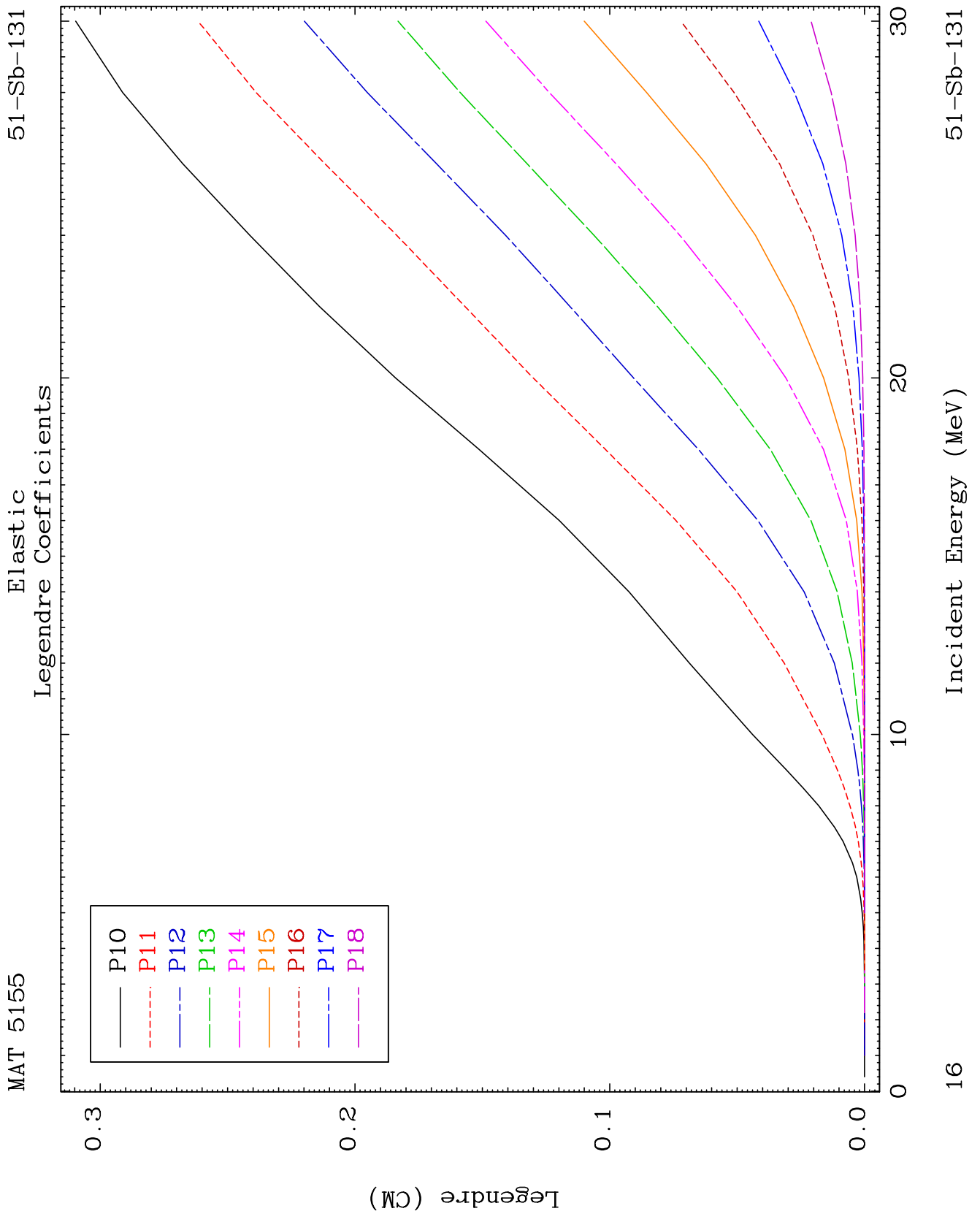
13

Incident Energy (MeV)

51-Sb-131



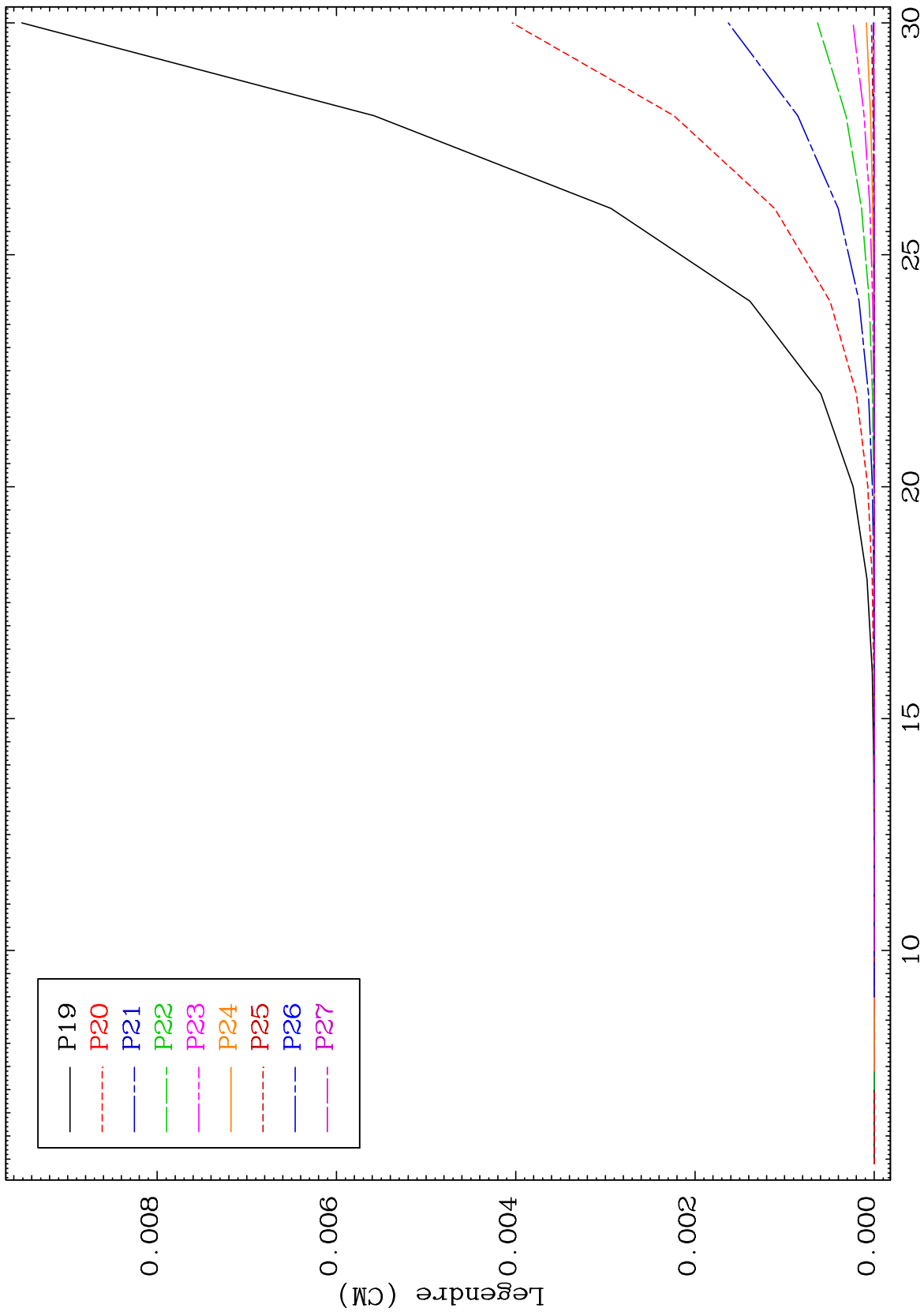




MAT 5155

Elastic Legendre Coefficients

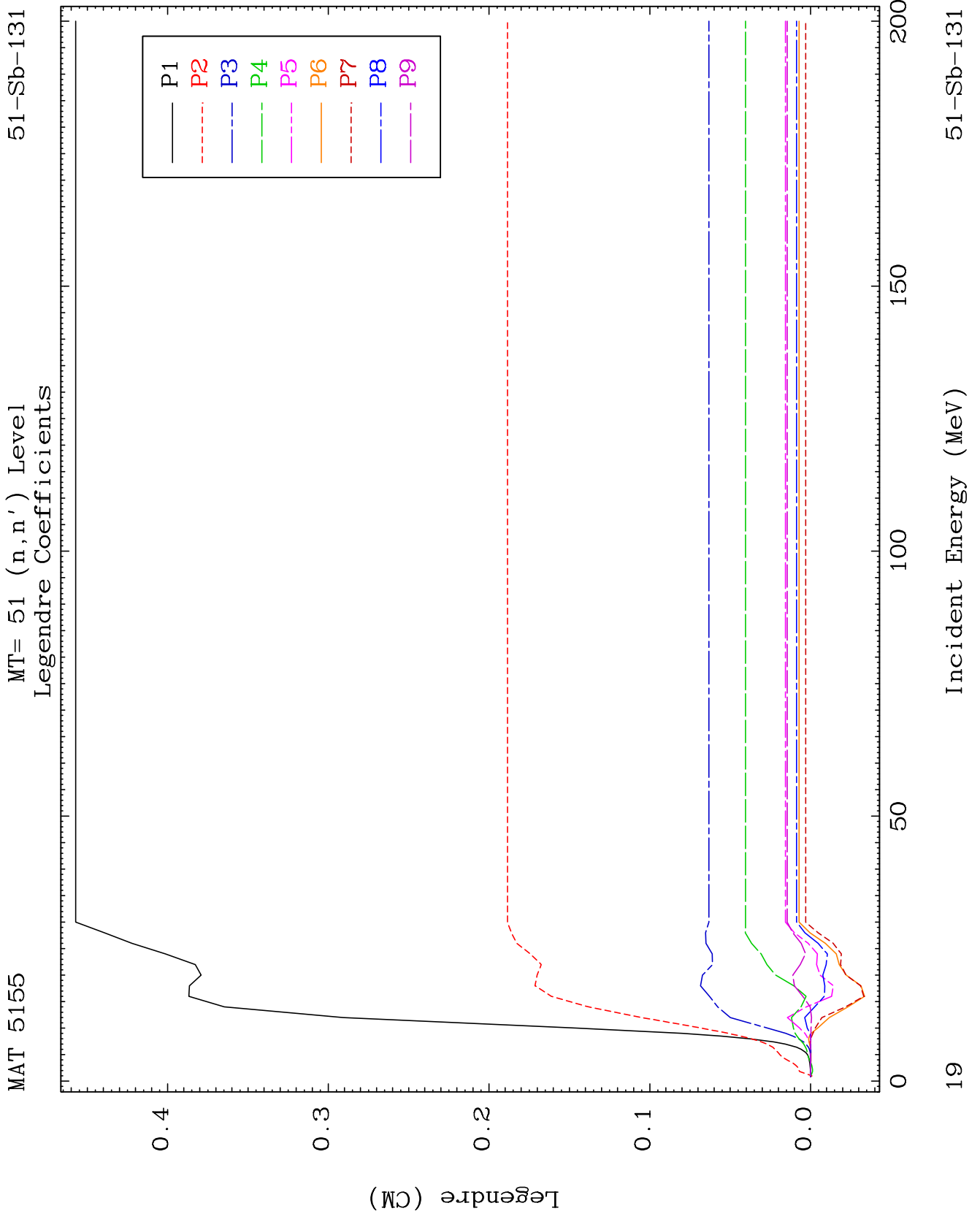
51-Sb-131



17

Incident Energy (MeV)

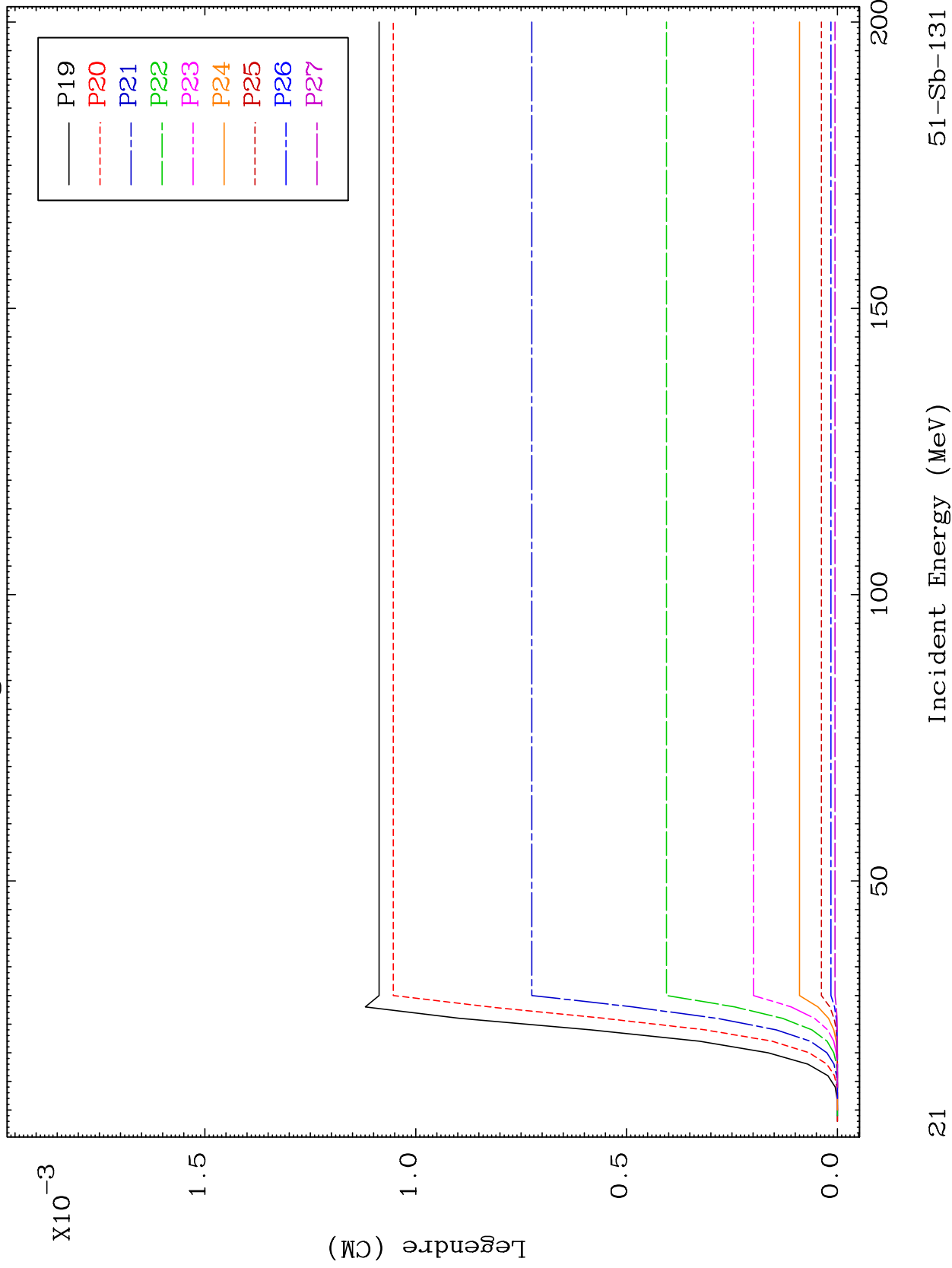
51-Sb-131



MAT 5155

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

51-Sb-131



21

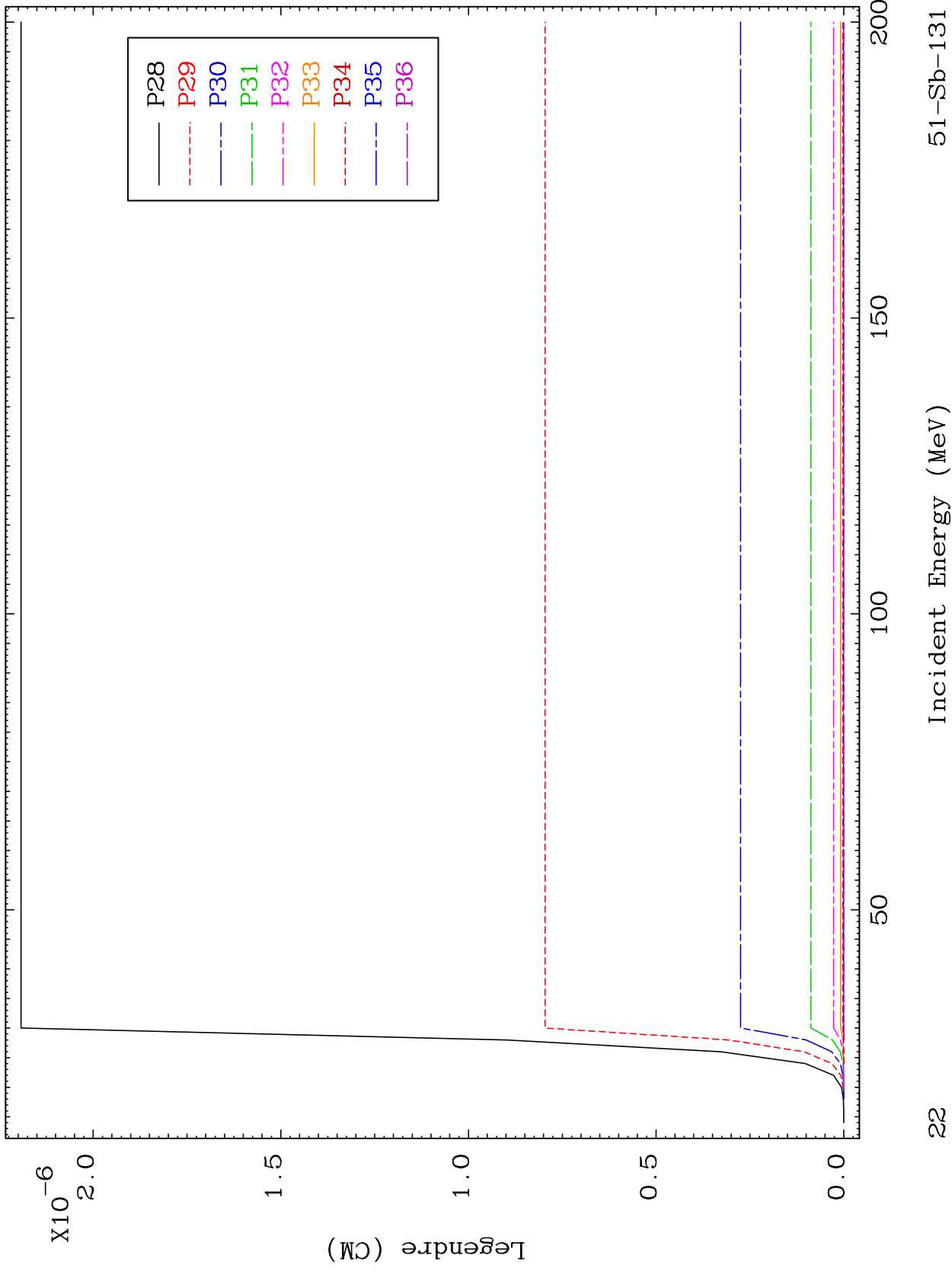
Incident Energy (MeV)

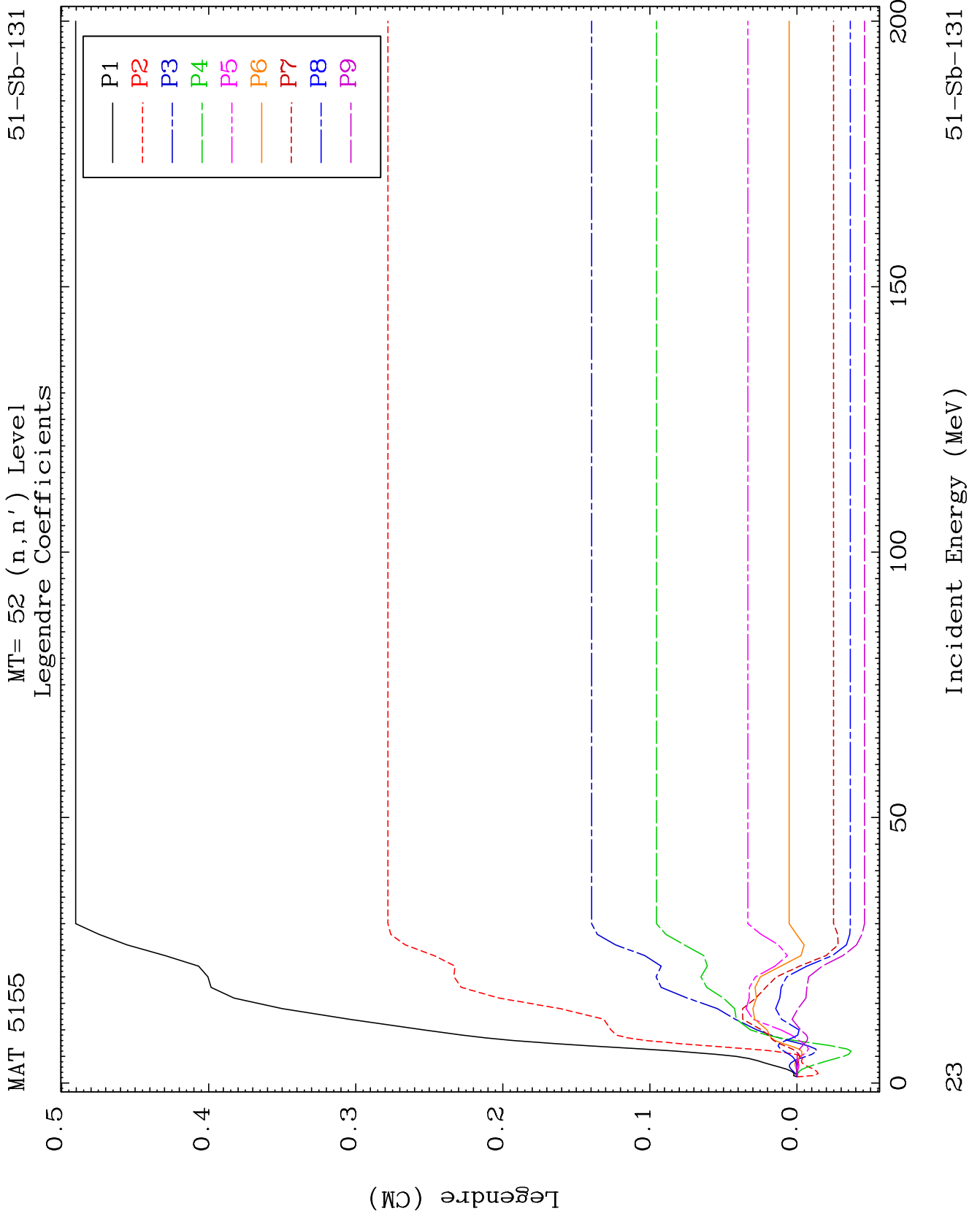
51-Sb-131

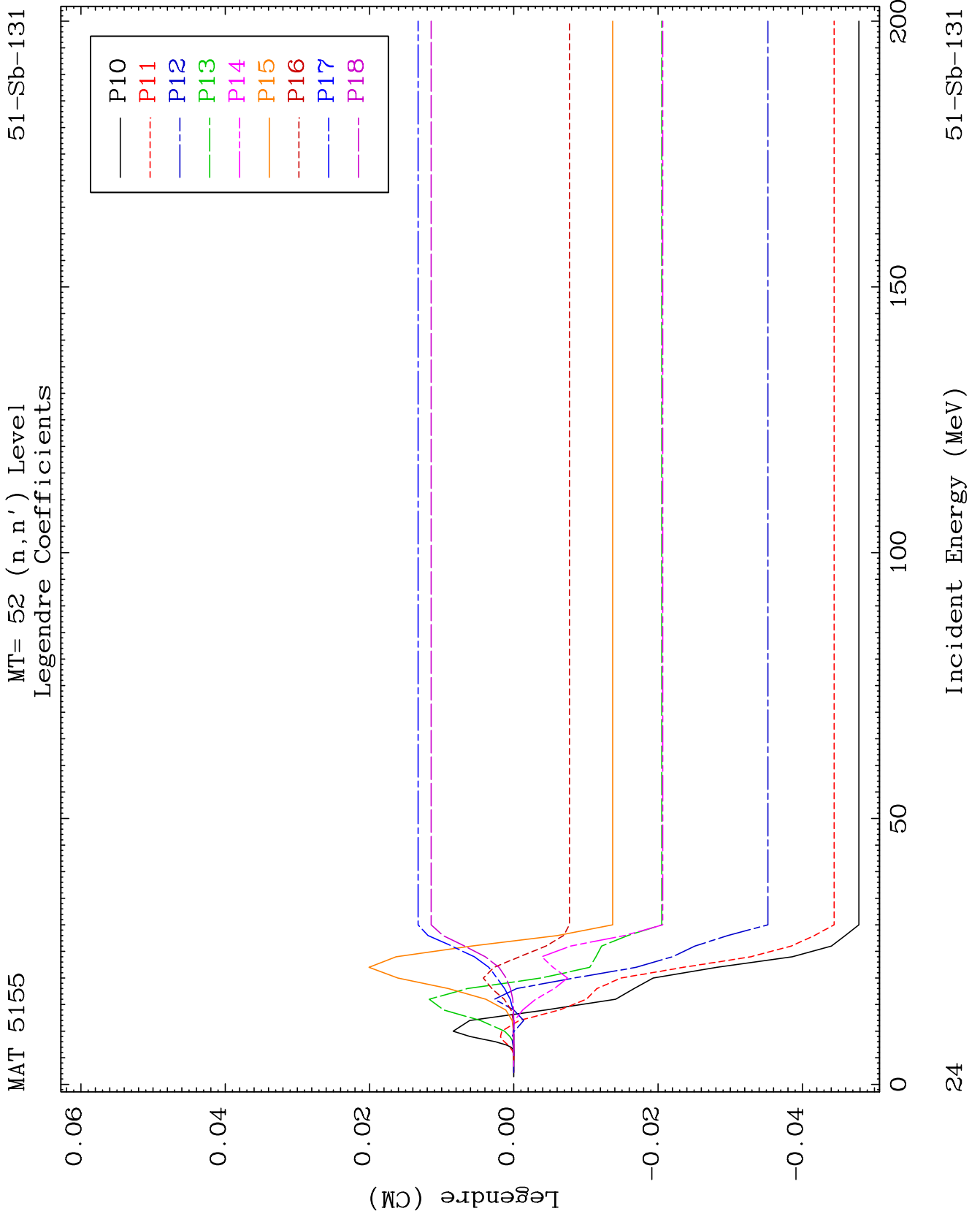
MAT 5155

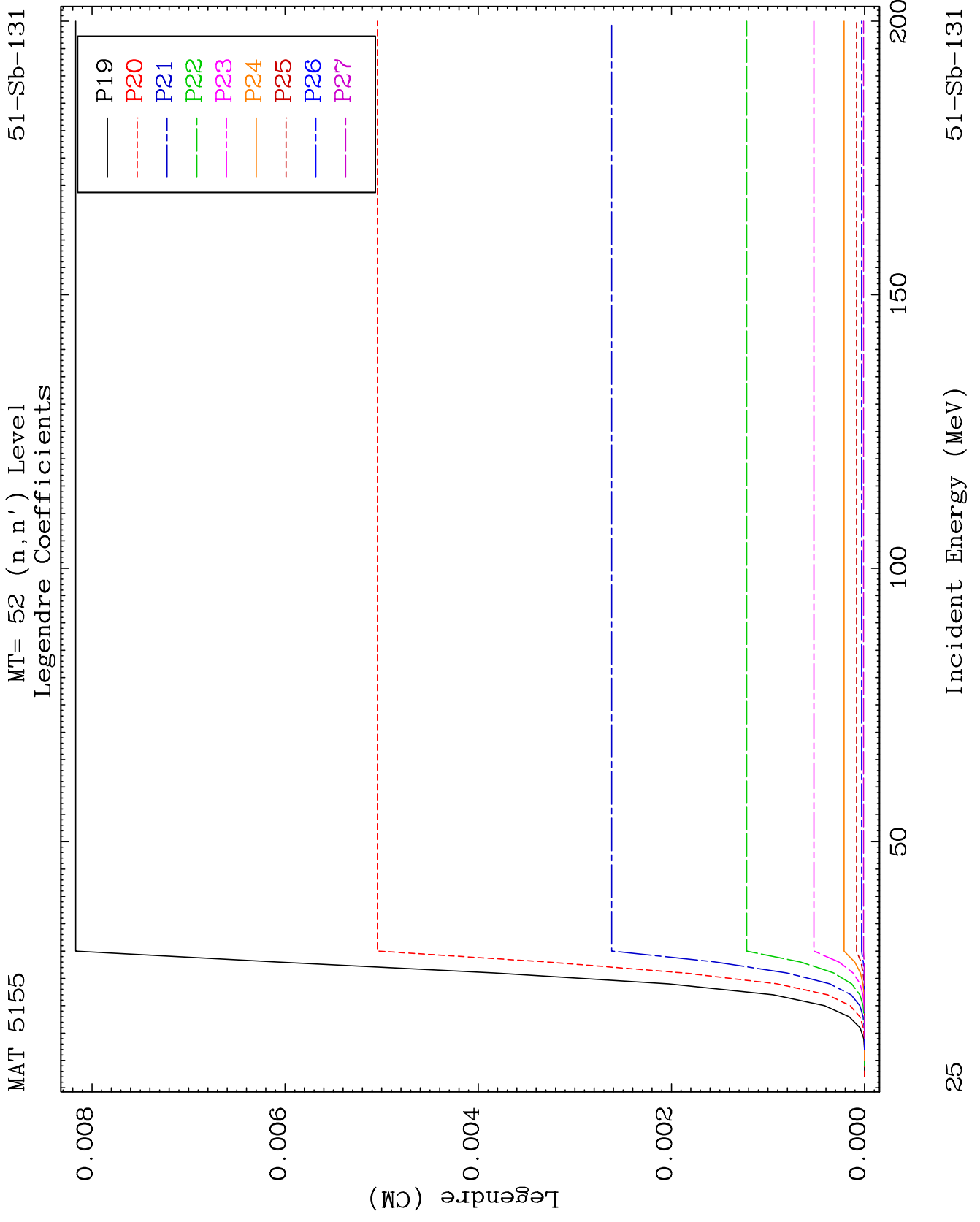
MT= 51 (n,n') Level
Legendre Coefficients

51-Sb-131





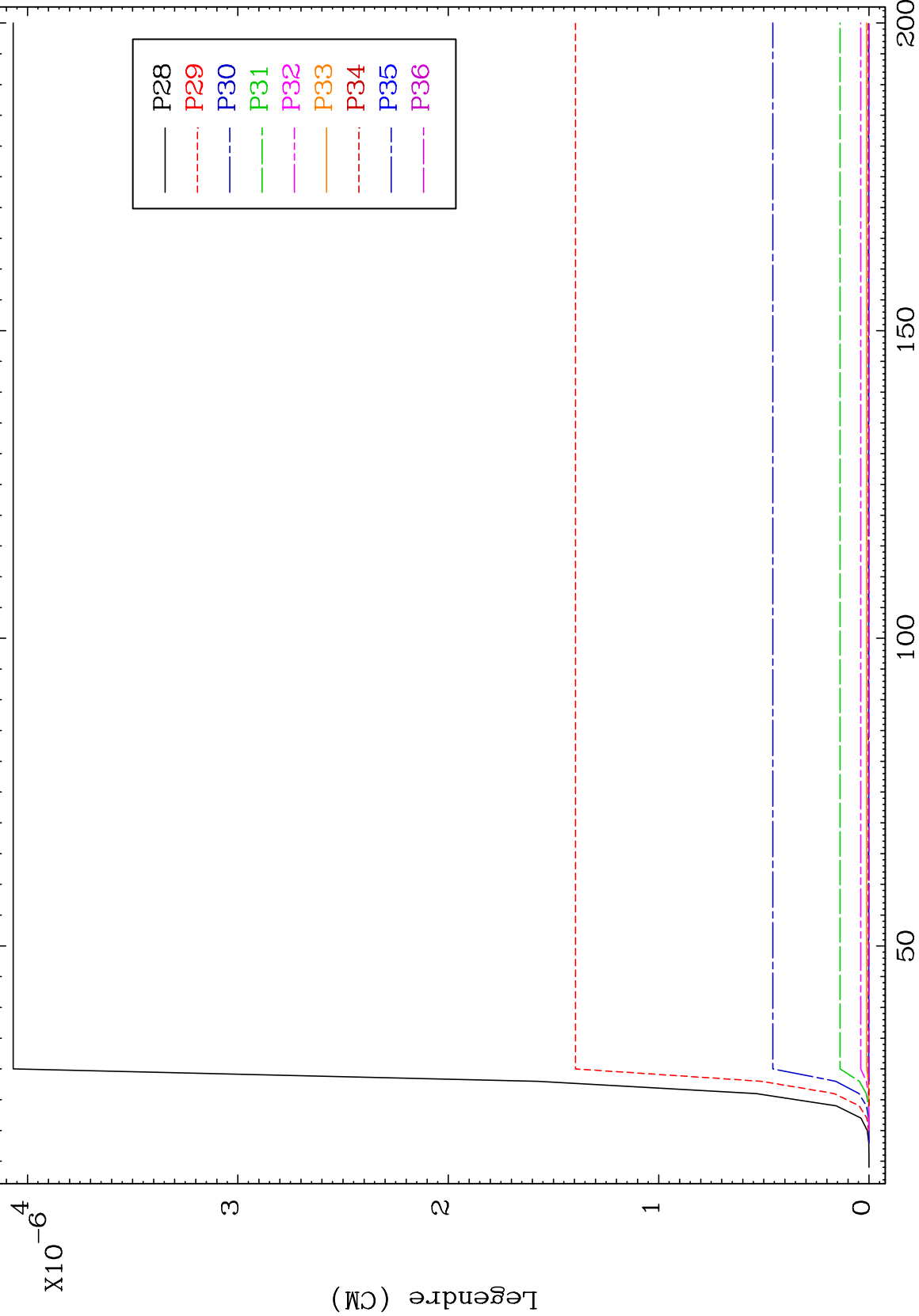




MAT 5155

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

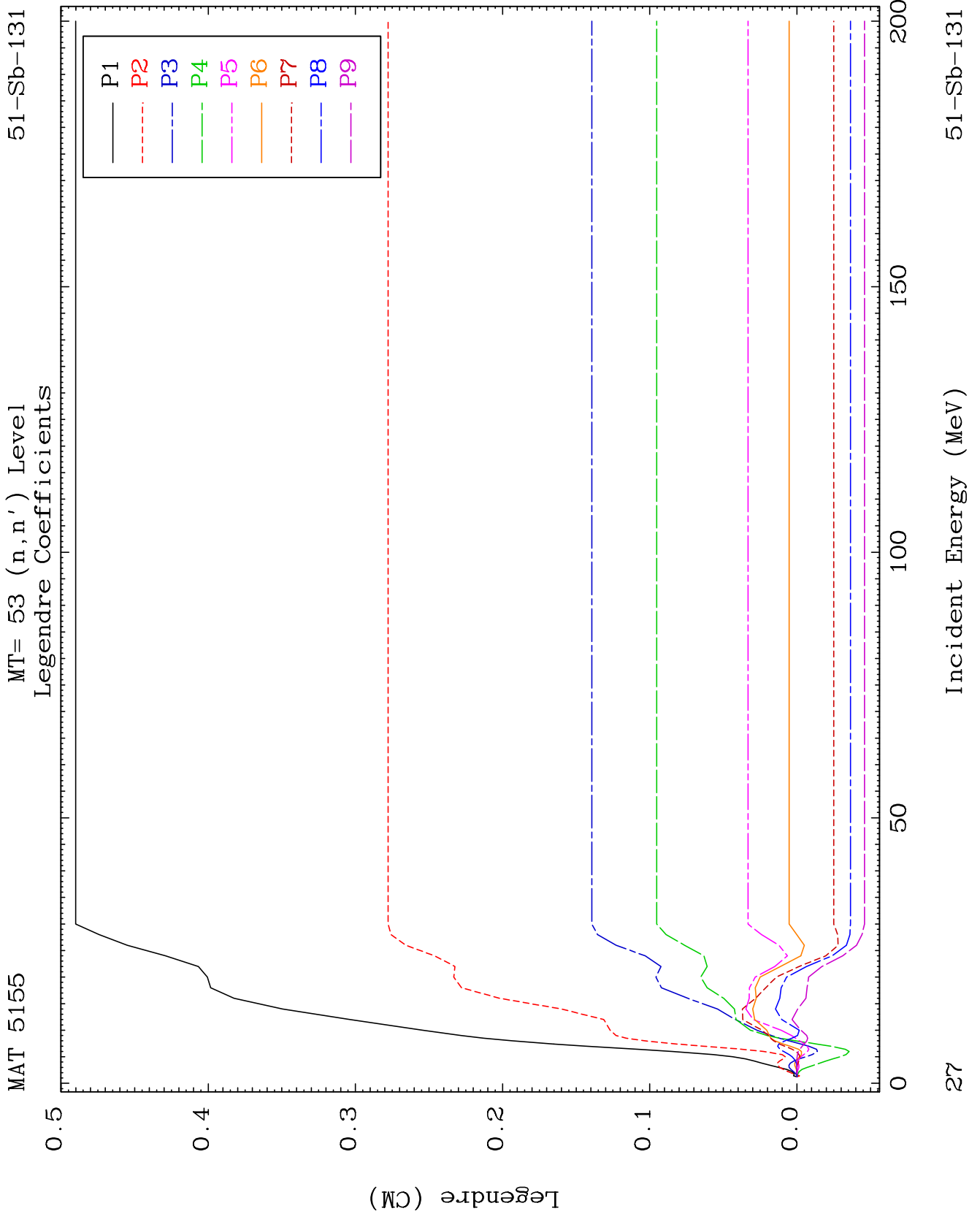
51-Sb-131



26

Incident Energy (MeV)

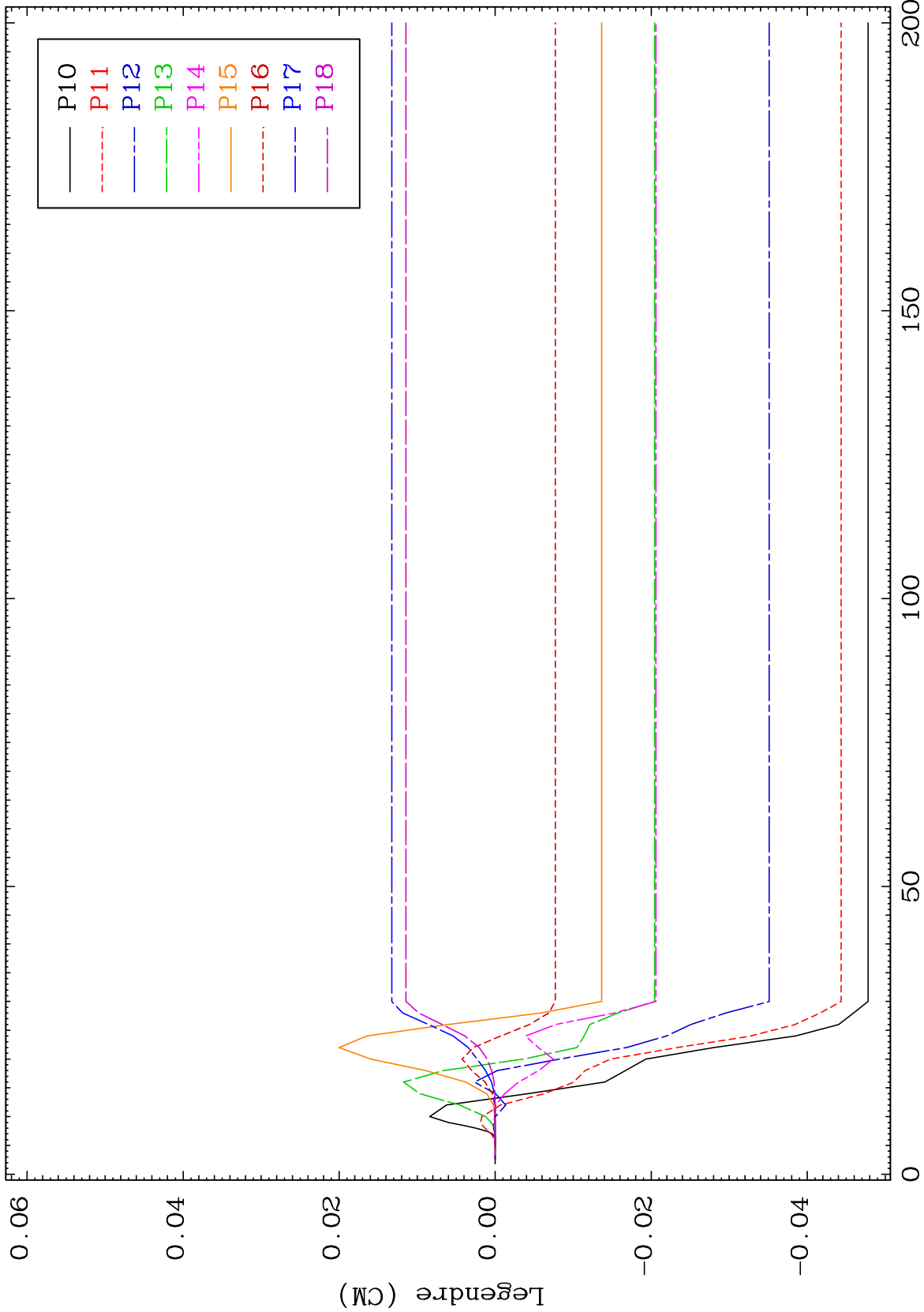
51-Sb-131



MAT 5155

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

51-Sb-131



28

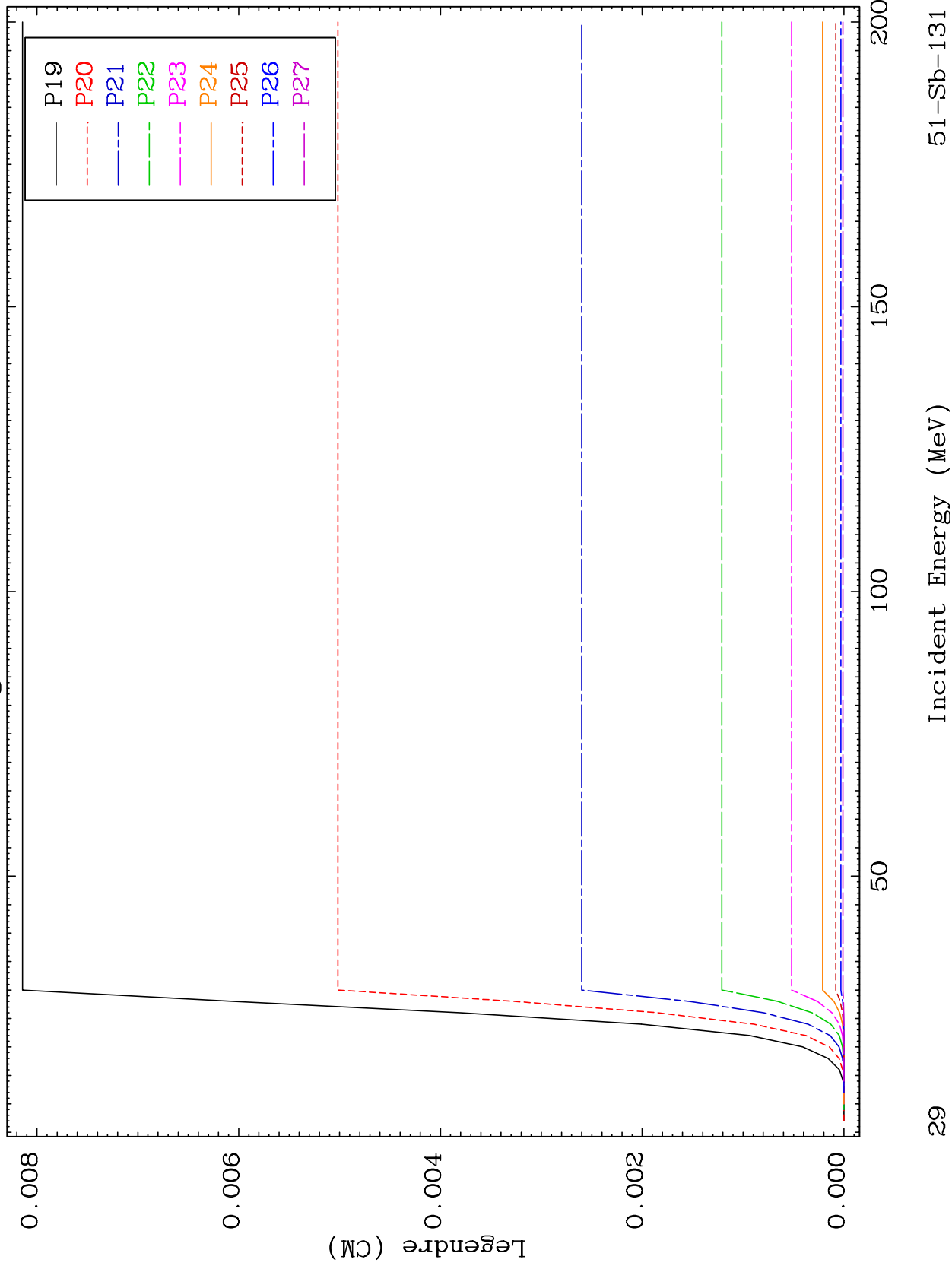
Incident Energy (MeV)

51-Sb-131

MAT 5155

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

51-Sb-131



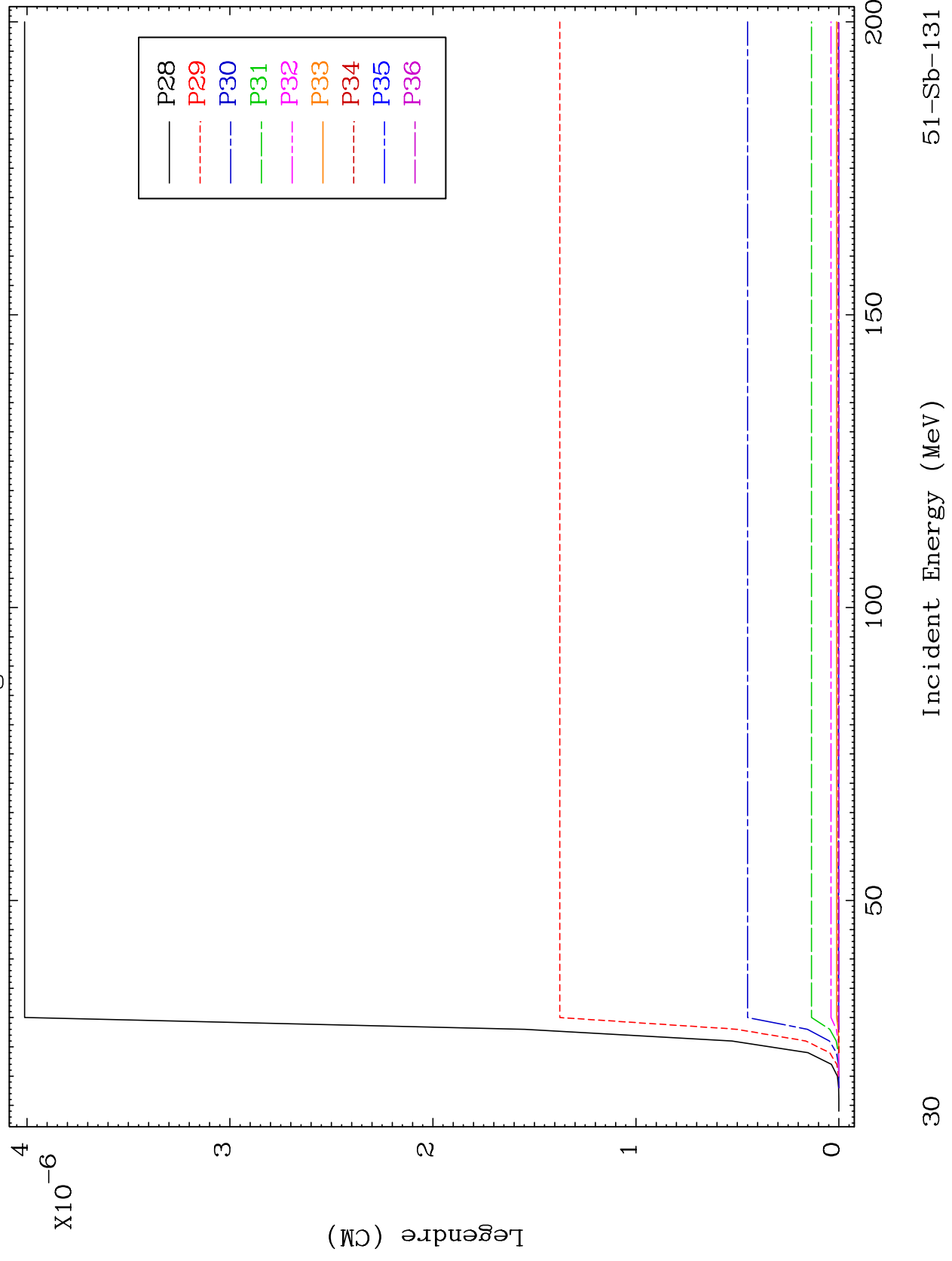
29

51-Sb-131

MAT 5155

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

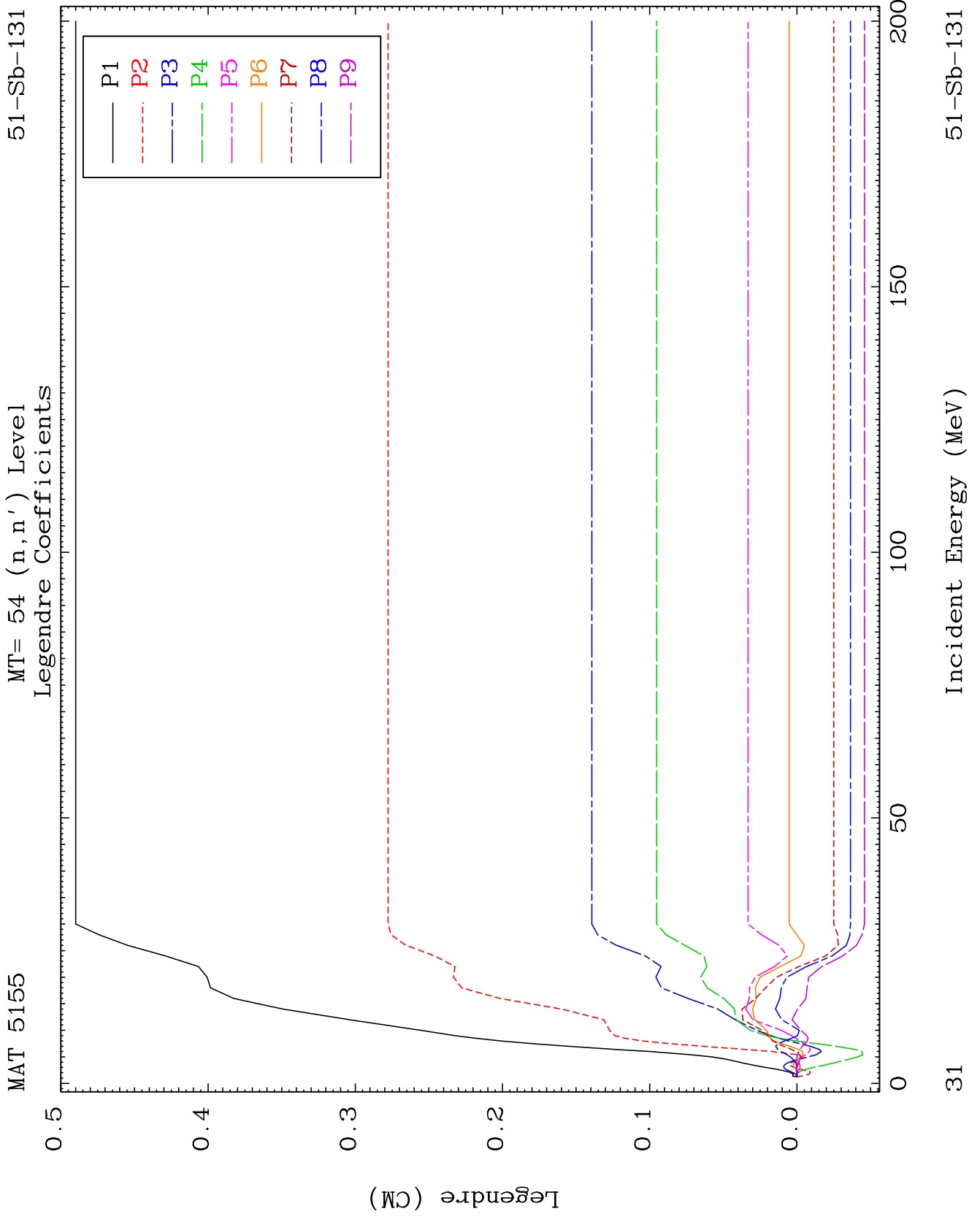
51-Sb-131



51-Sb-131

Incident Energy (MeV)

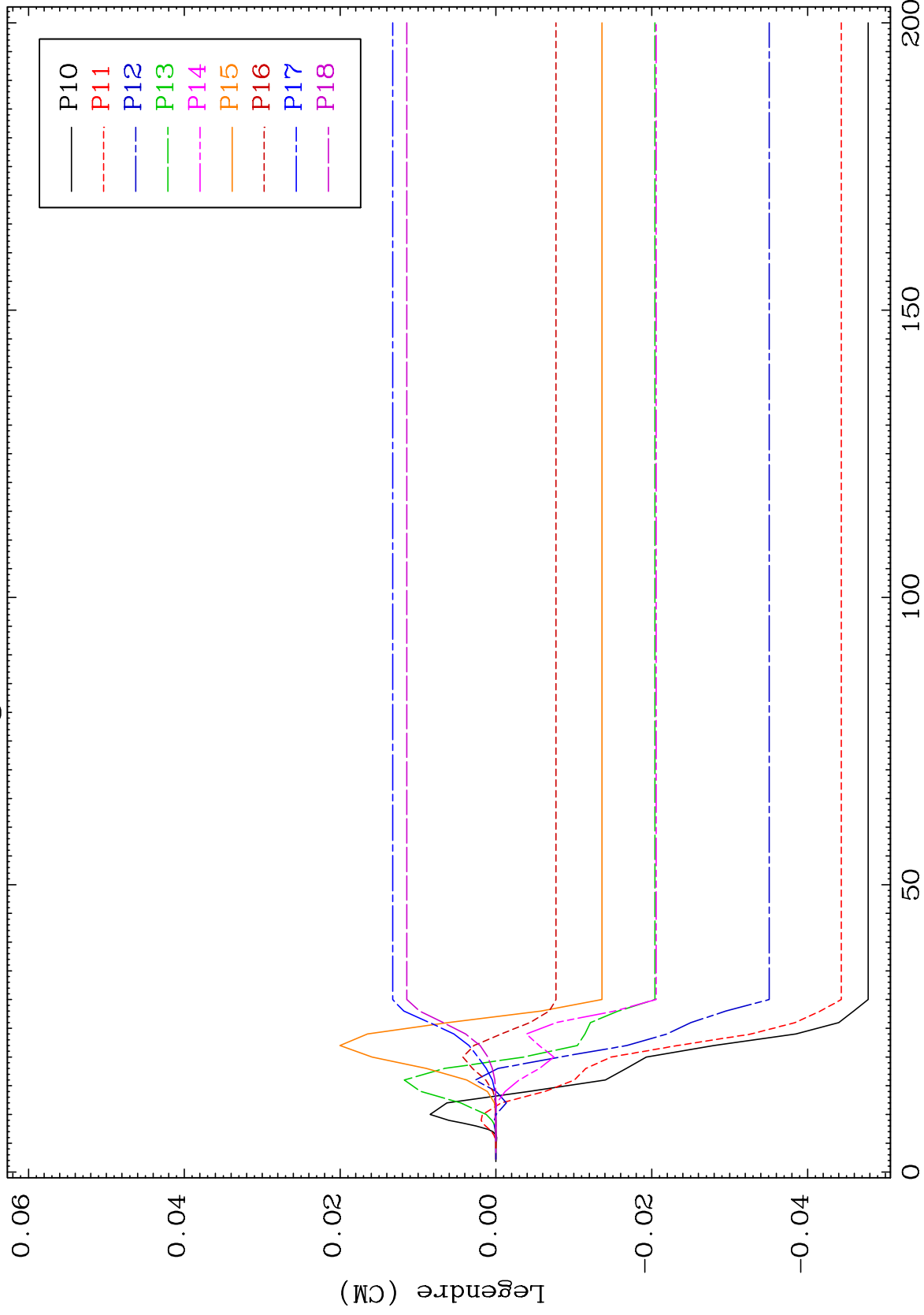
30



MAT 5155

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

51-Sb-131



32

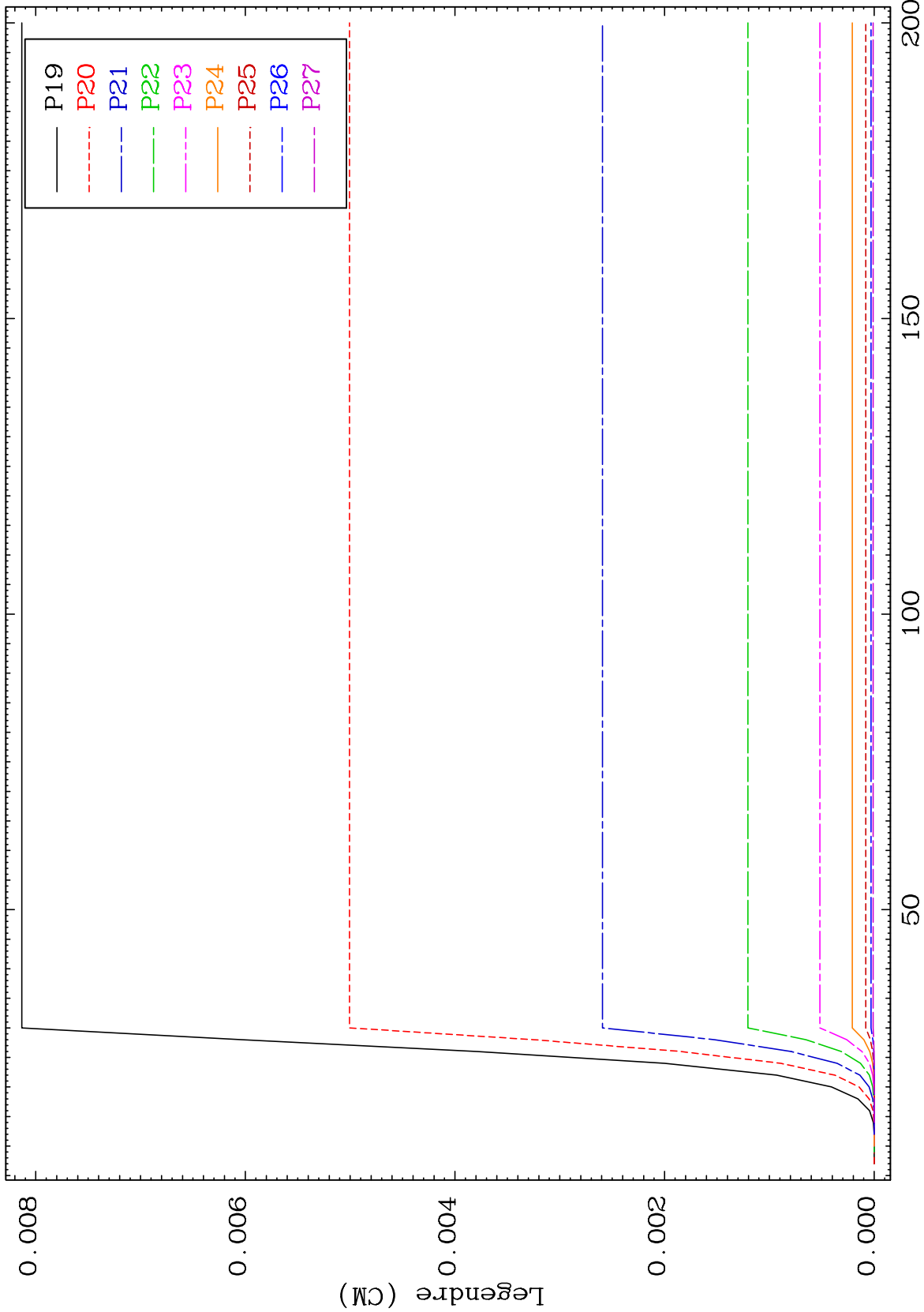
Incident Energy (MeV)

51-Sb-131

MAT 5155

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

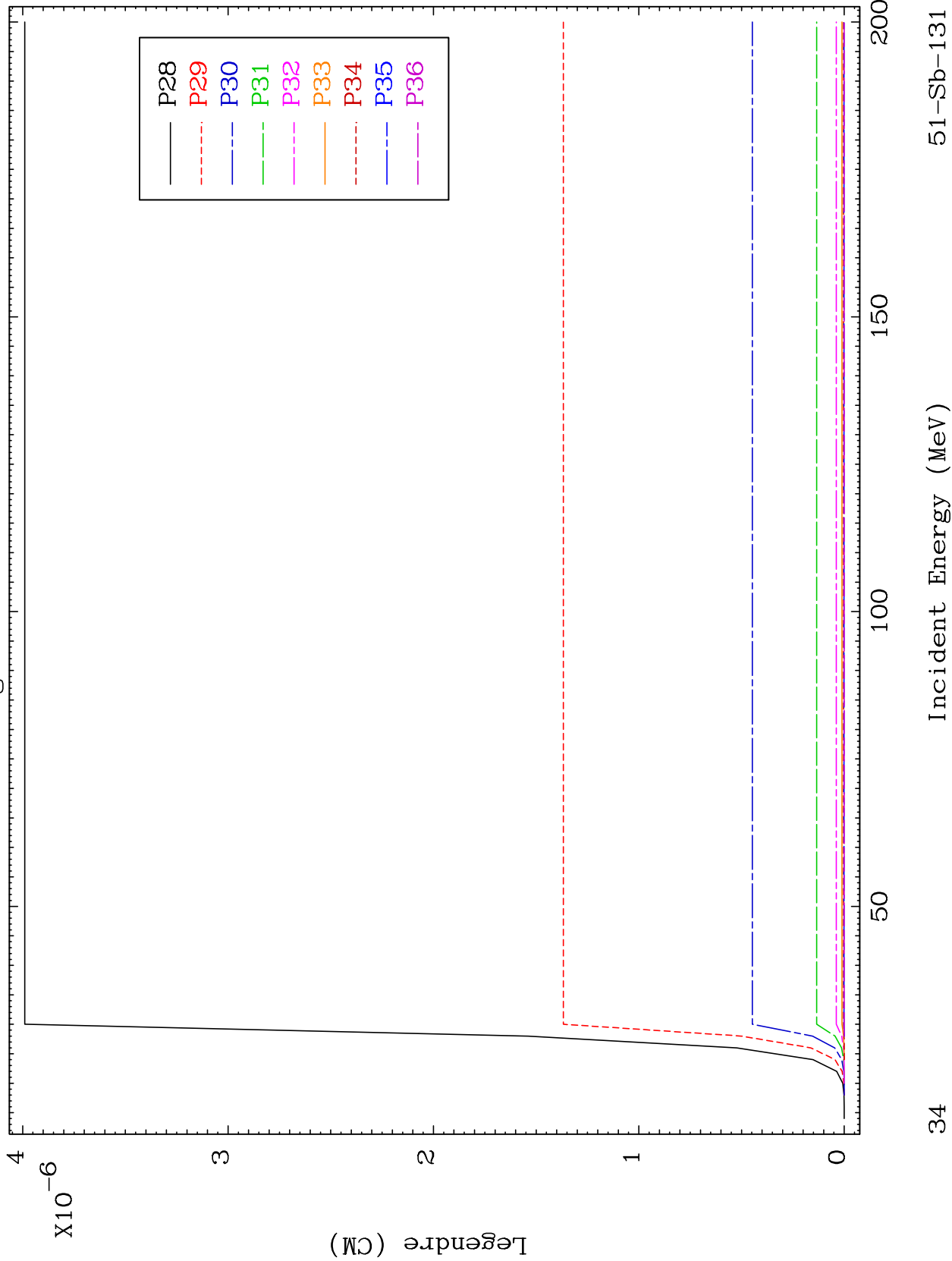
51-Sb-131



MAT 5155

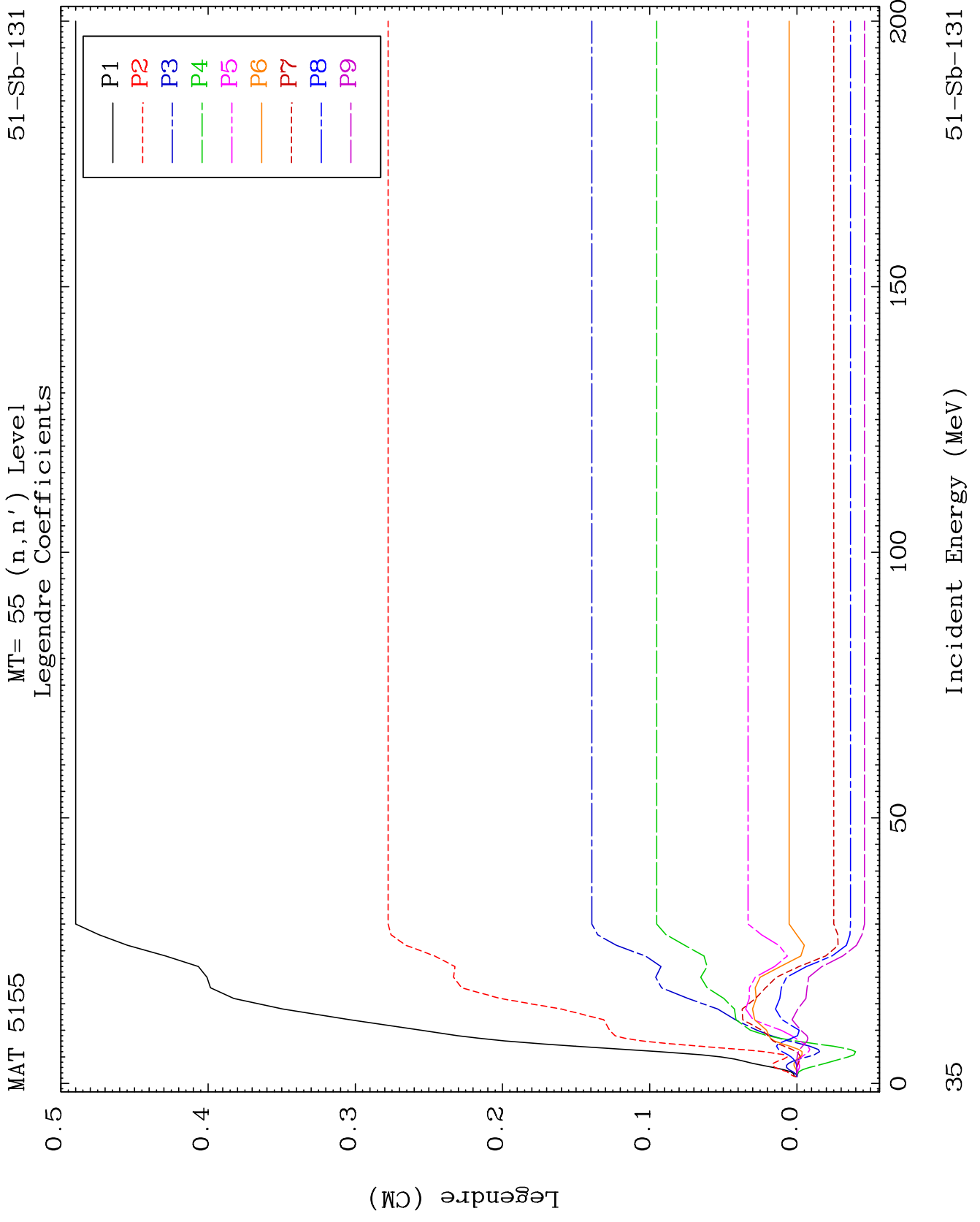
MT= 54 (n,n') Level
Legendre Coefficients

51-Sb-131



34

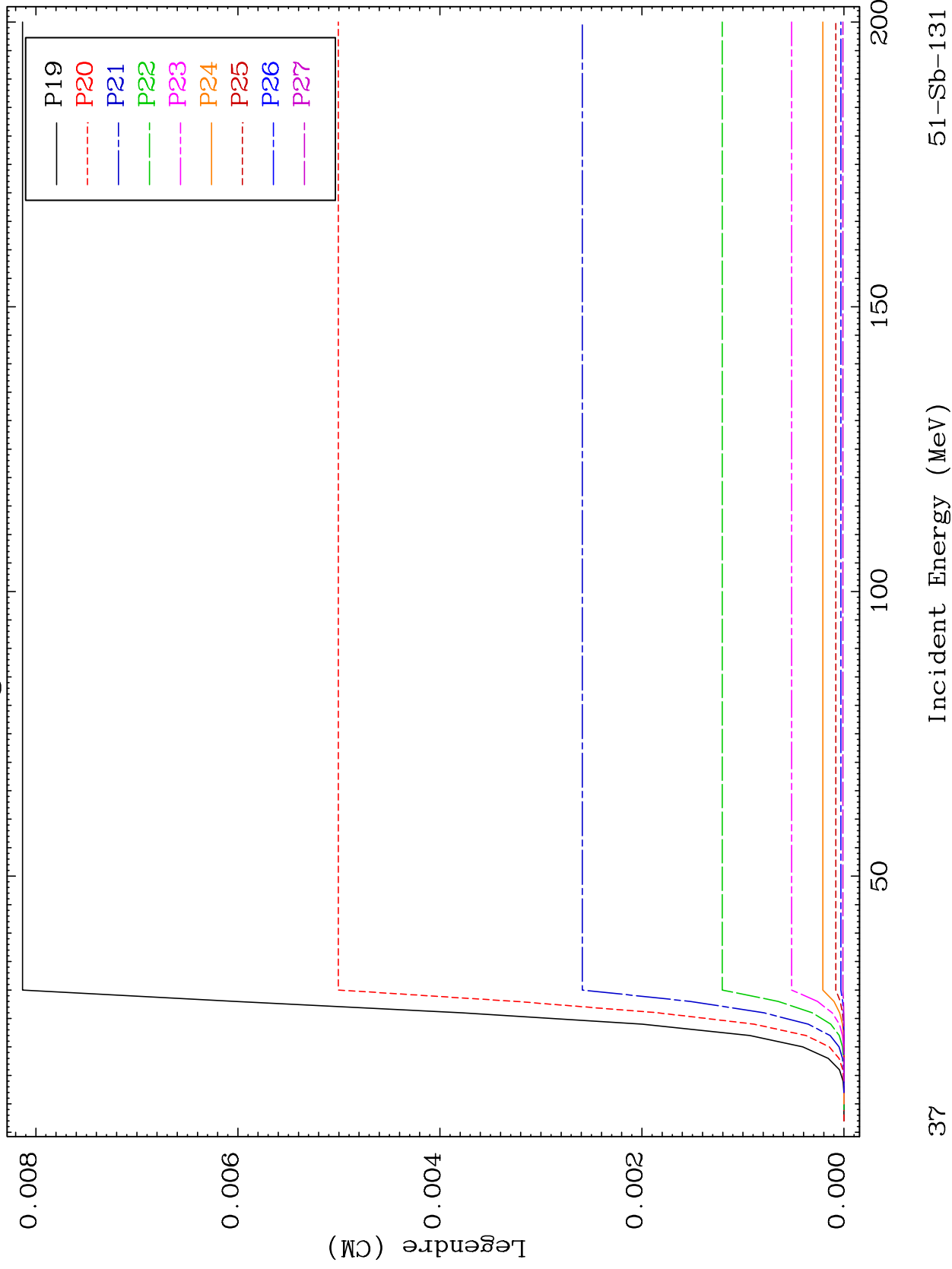
51-Sb-131



MAT 5155

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

51-Sb-131



37

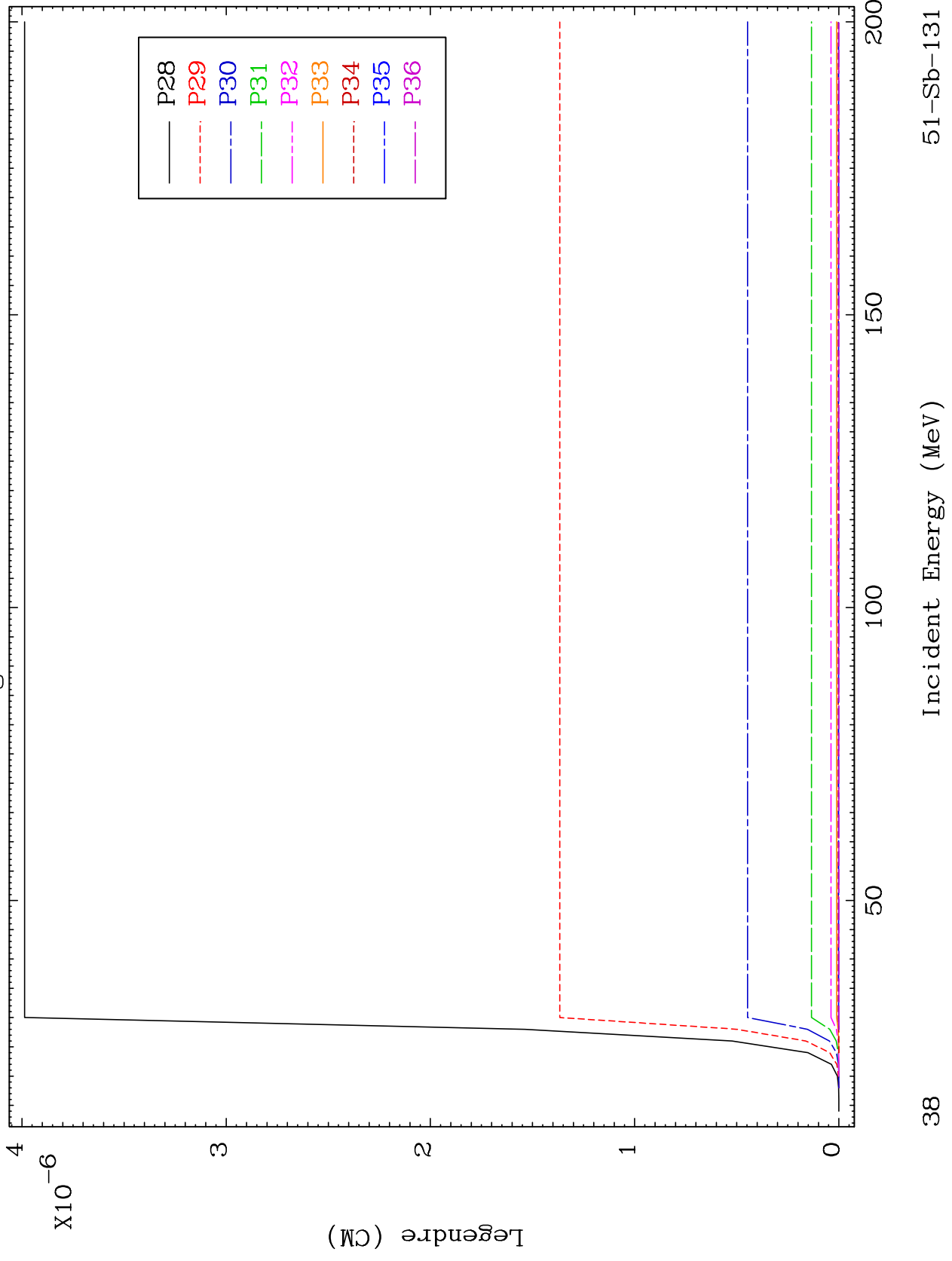
Incident Energy (MeV)

51-Sb-131

MAT 5155

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

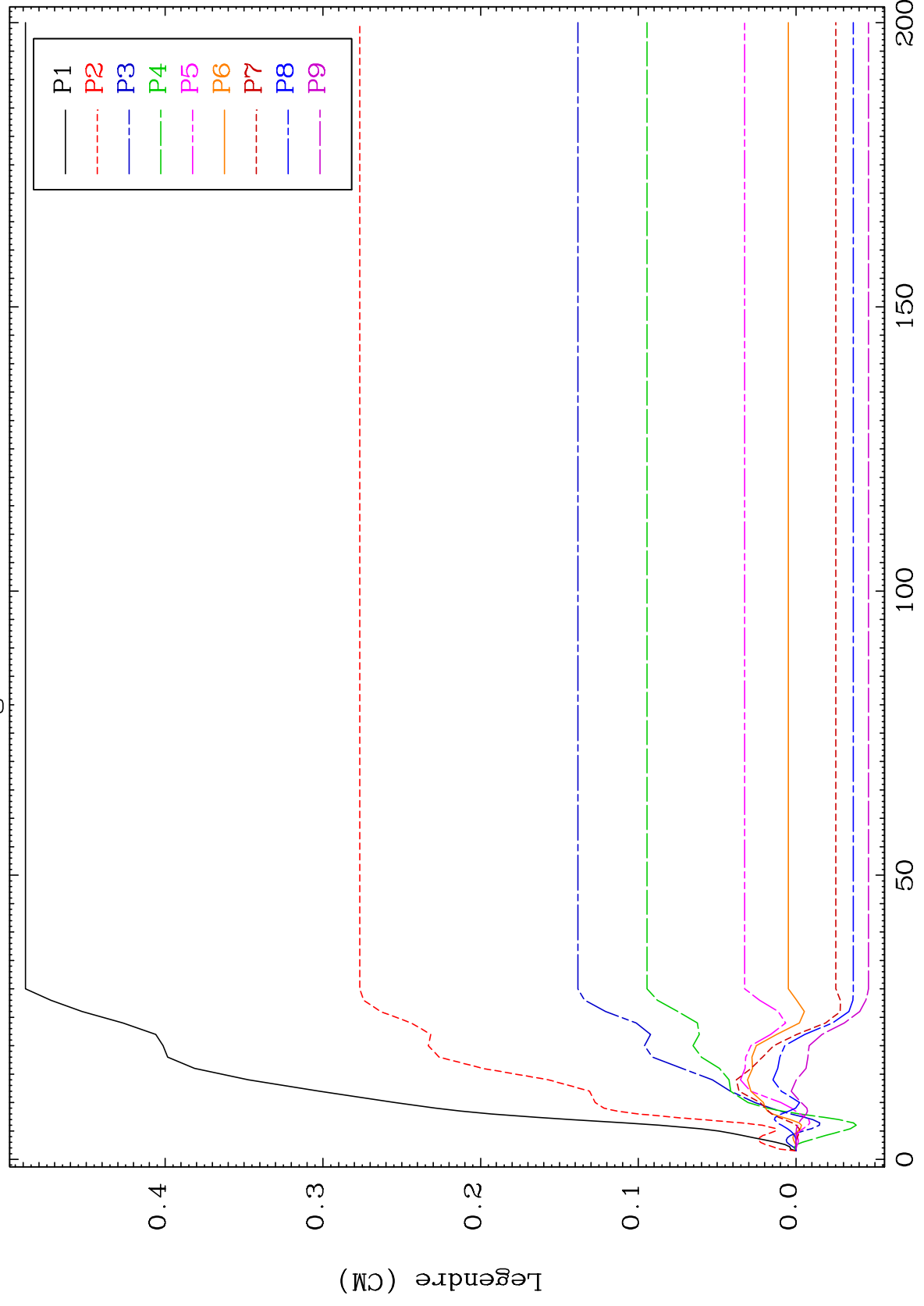
51-Sb-131



MAT 5155

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

51-Sb-131



51-Sb-131

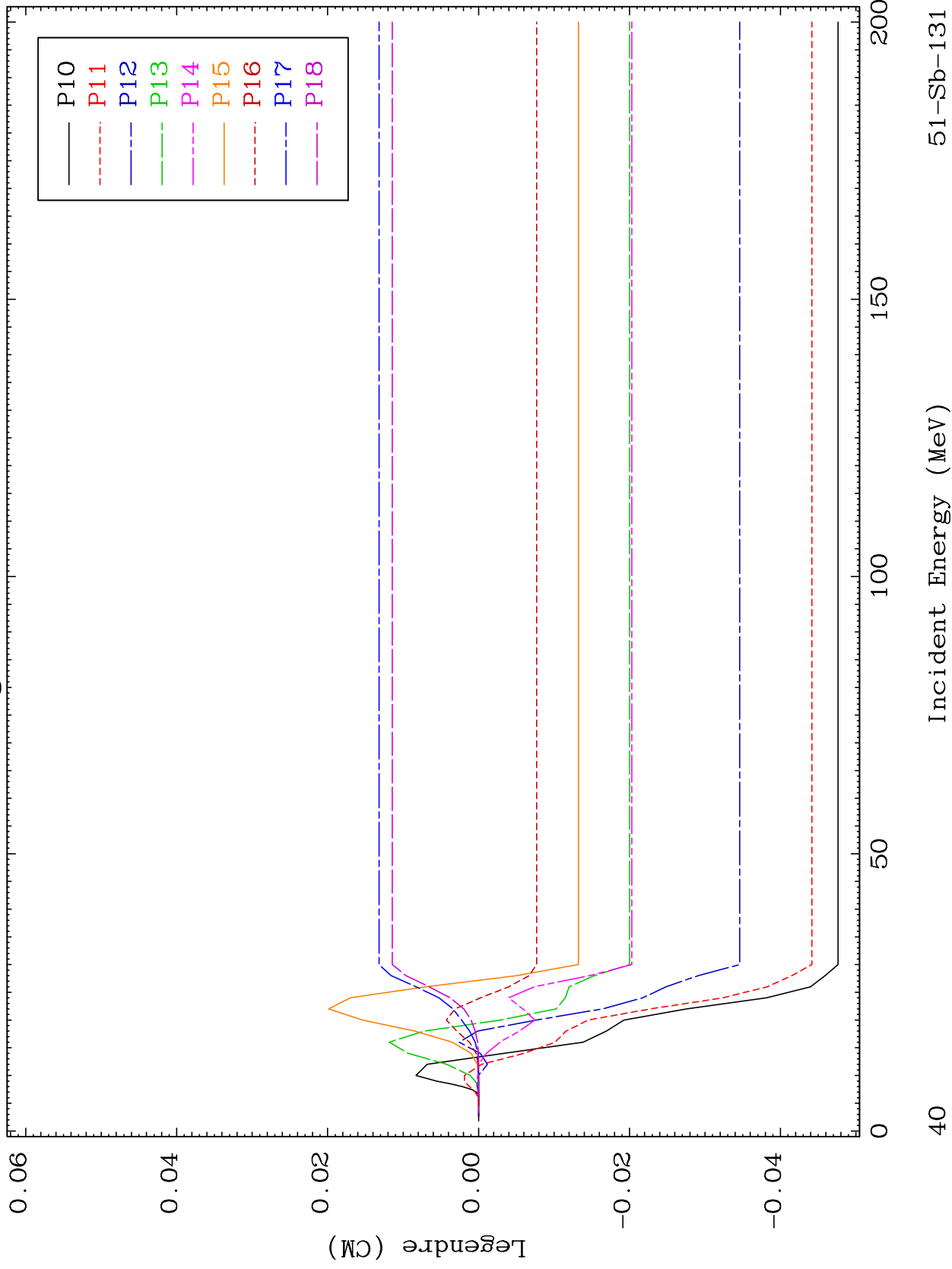
Incident Energy (MeV)

39

MAT 5155

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

51-Sb-131



51-Sb-131

Incident Energy (MeV)

40

50

100

150

200

Legendre (CM)

0.06

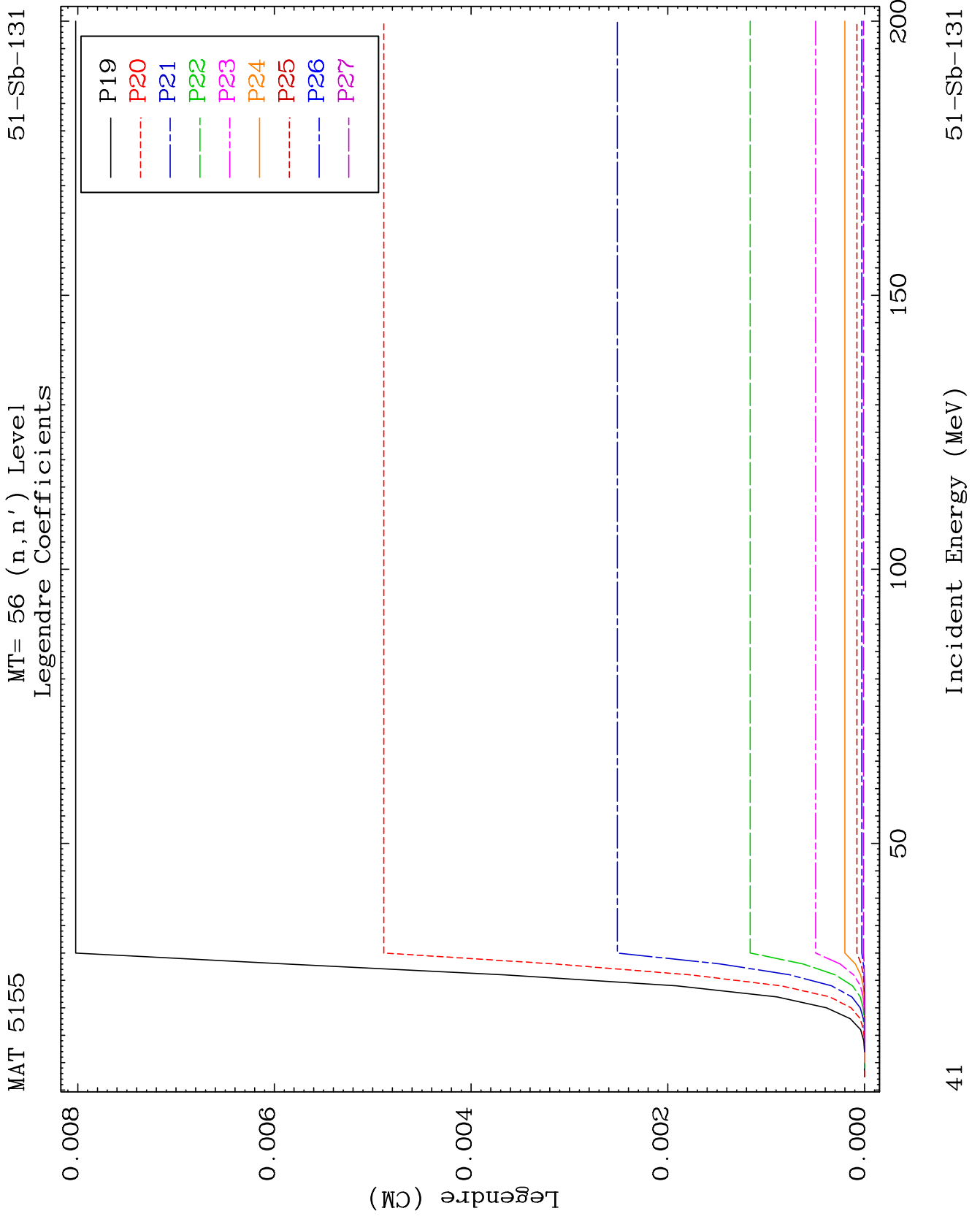
0.04

0.02

0.00

-0.02

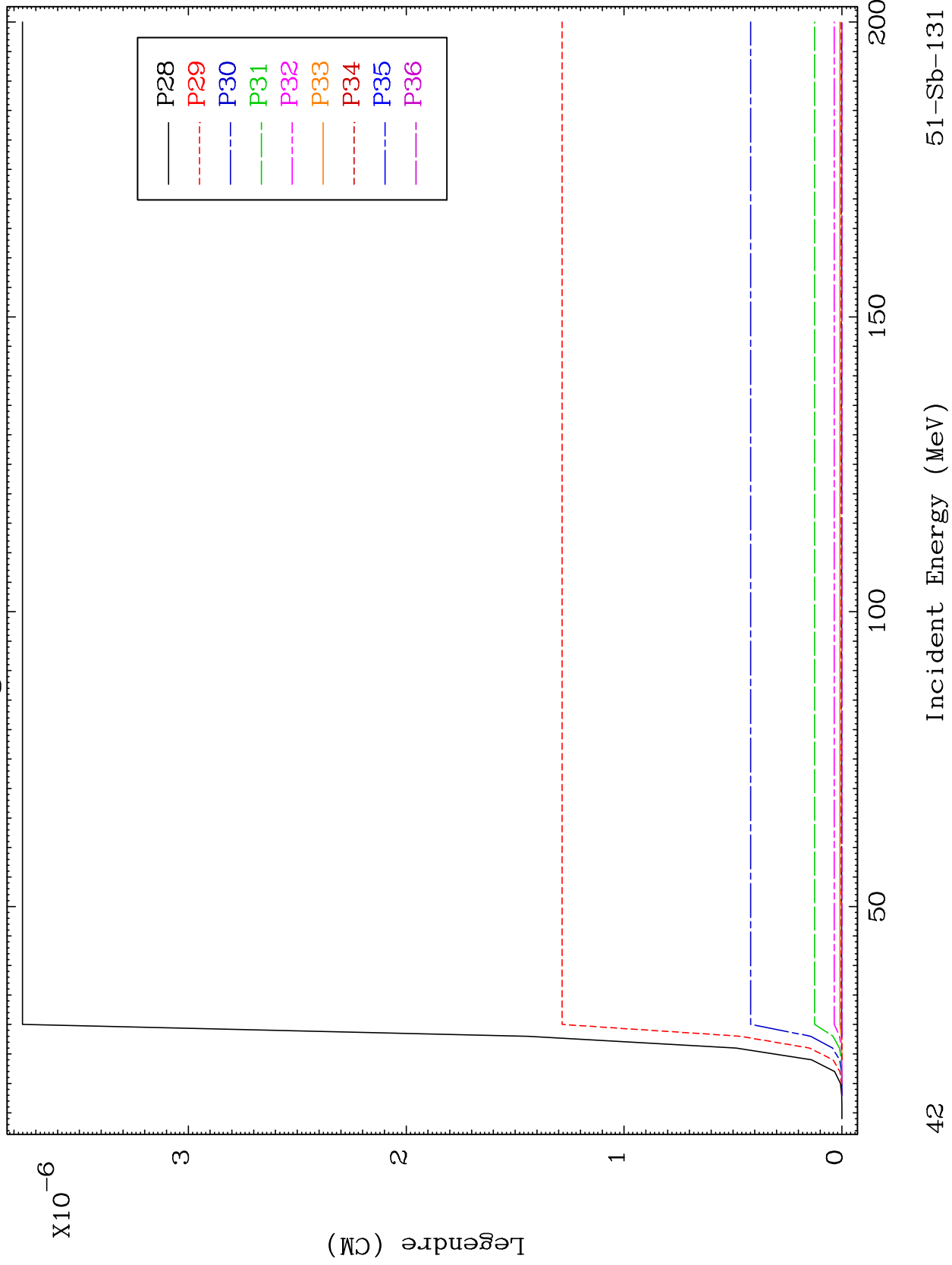
-0.04



MAT 5155

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

51-Sb-131



42

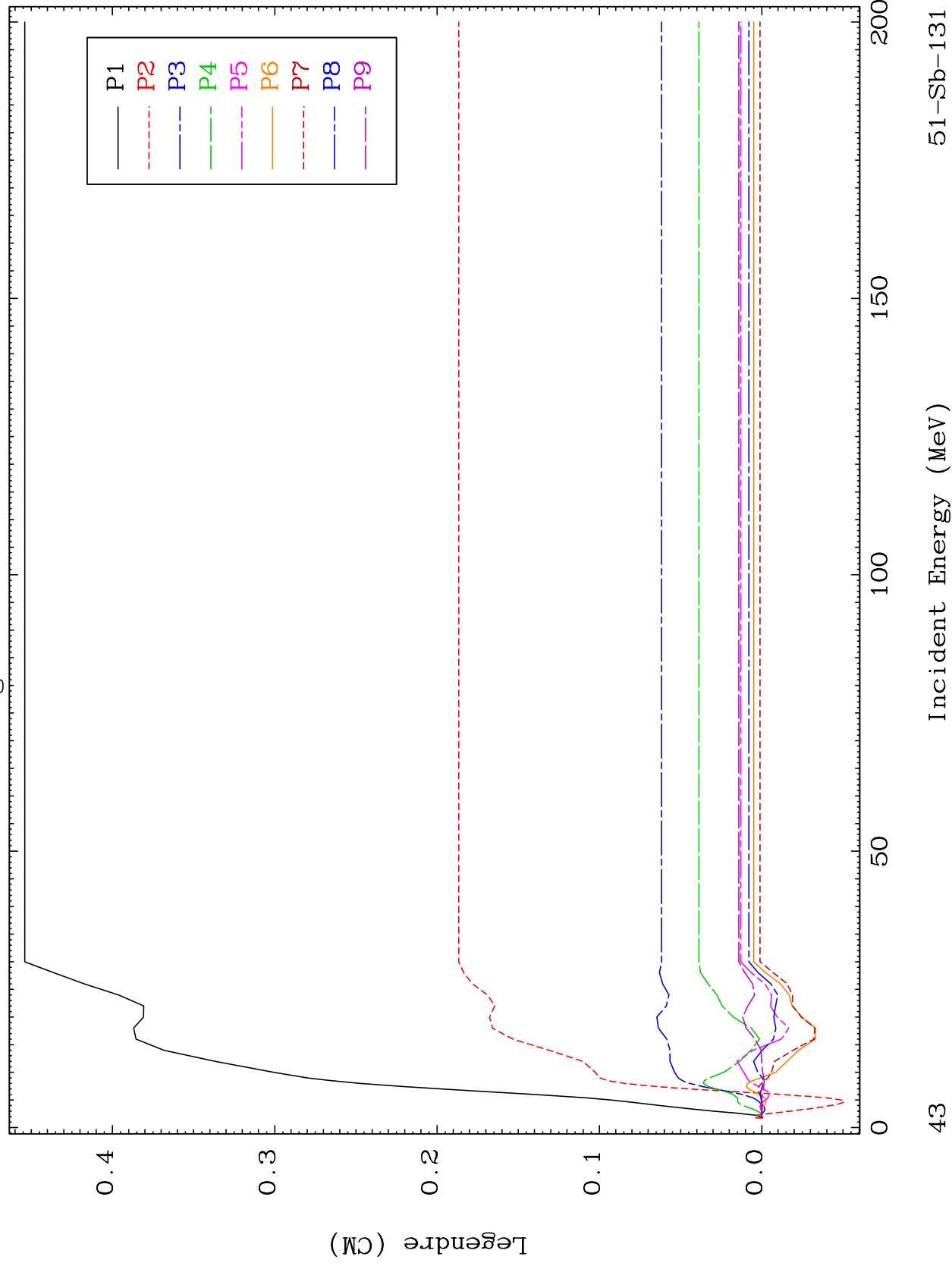
Incident Energy (MeV)

51-Sb-131

MAT 5155

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

51-Sb-131



43

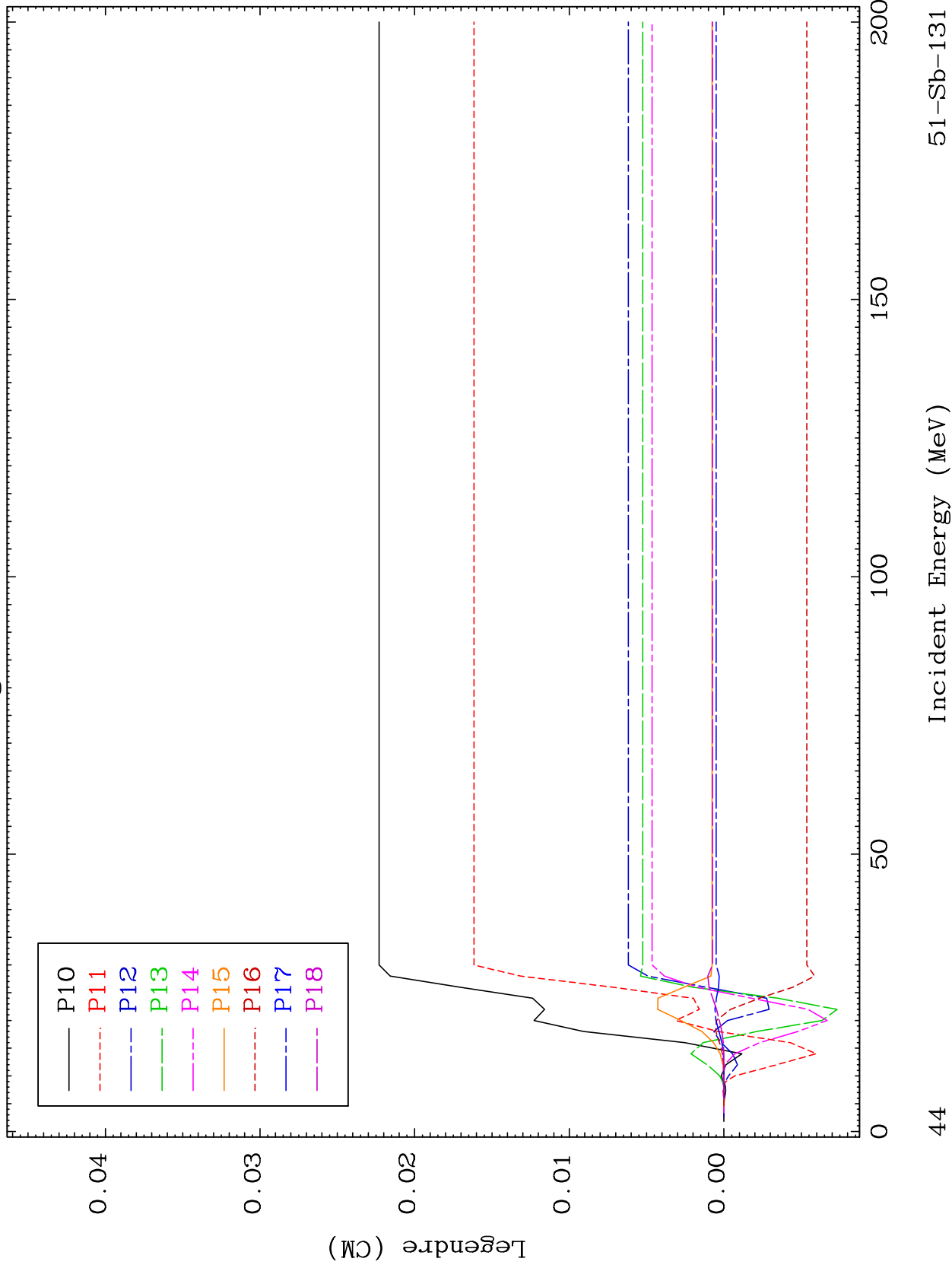
Incident Energy (MeV)

51-Sb-131

MAT 5155

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

51-Sb-131



44

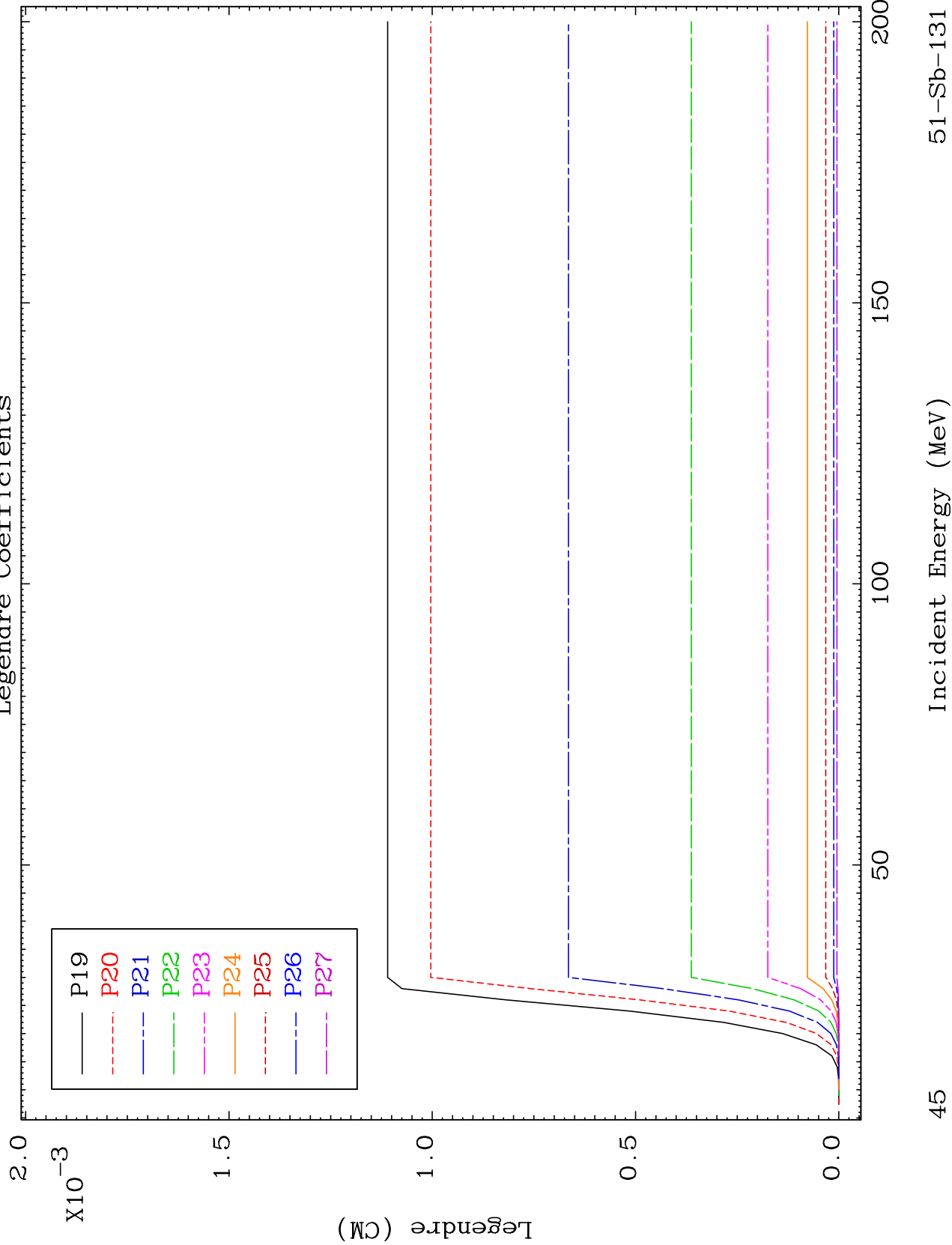
Incident Energy (MeV)

51-Sb-131

MAT 5155

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

51-Sb-131



45

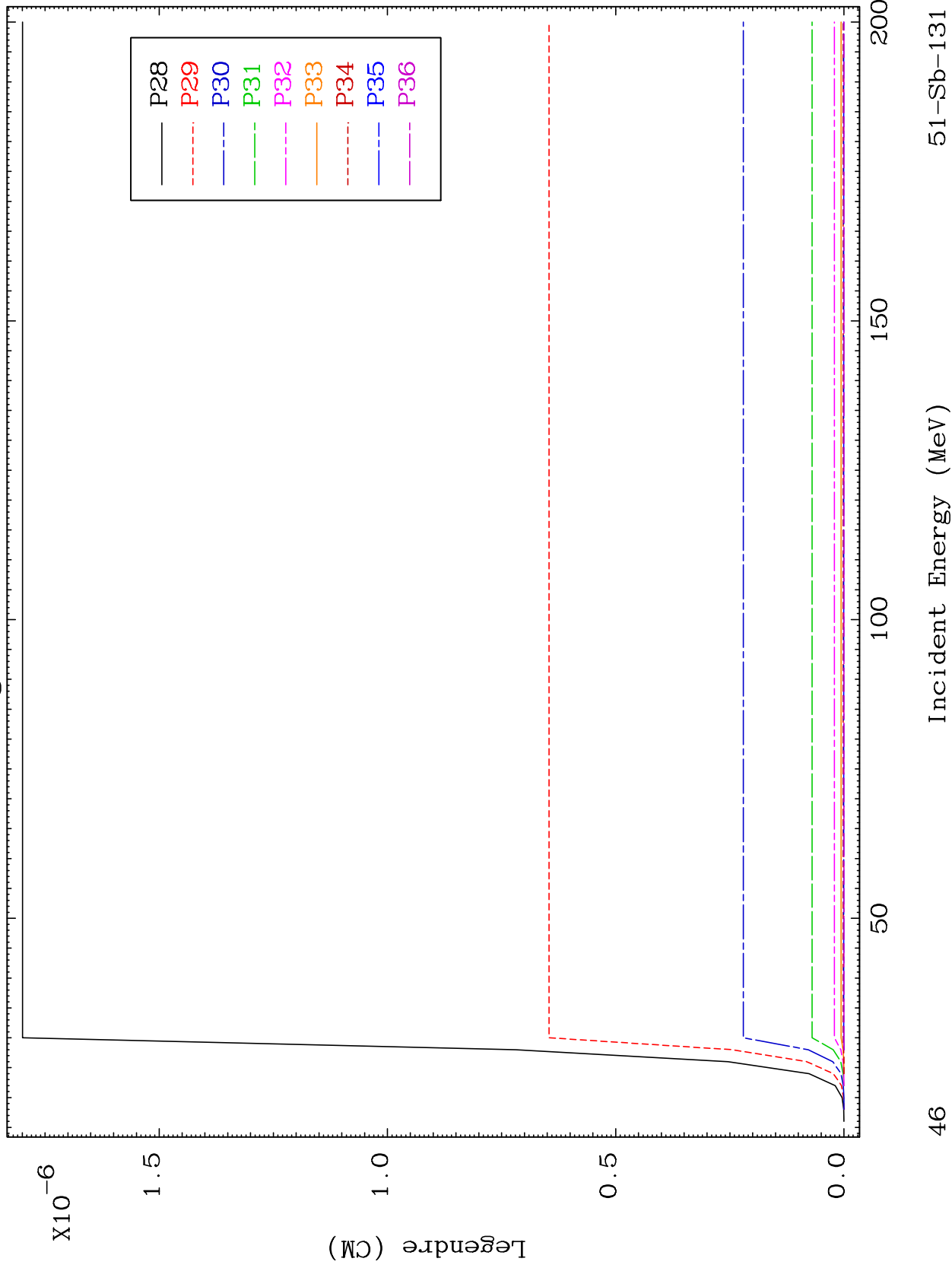
Incident Energy (MeV)

51-Sb-131

MAT 5155

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

51-Sb-131



46

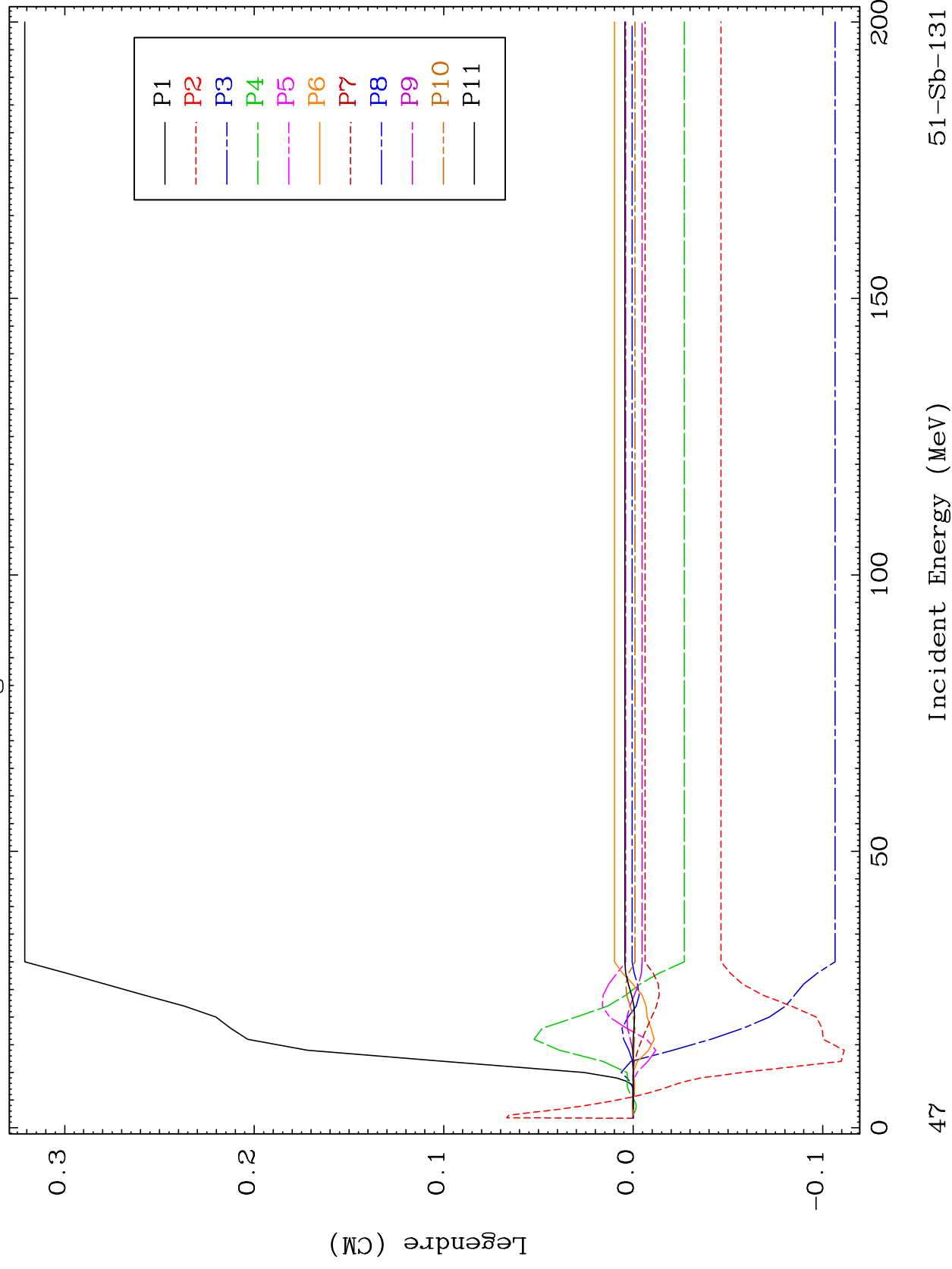
Incident Energy (MeV)

51-Sb-131

MAT 5155

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

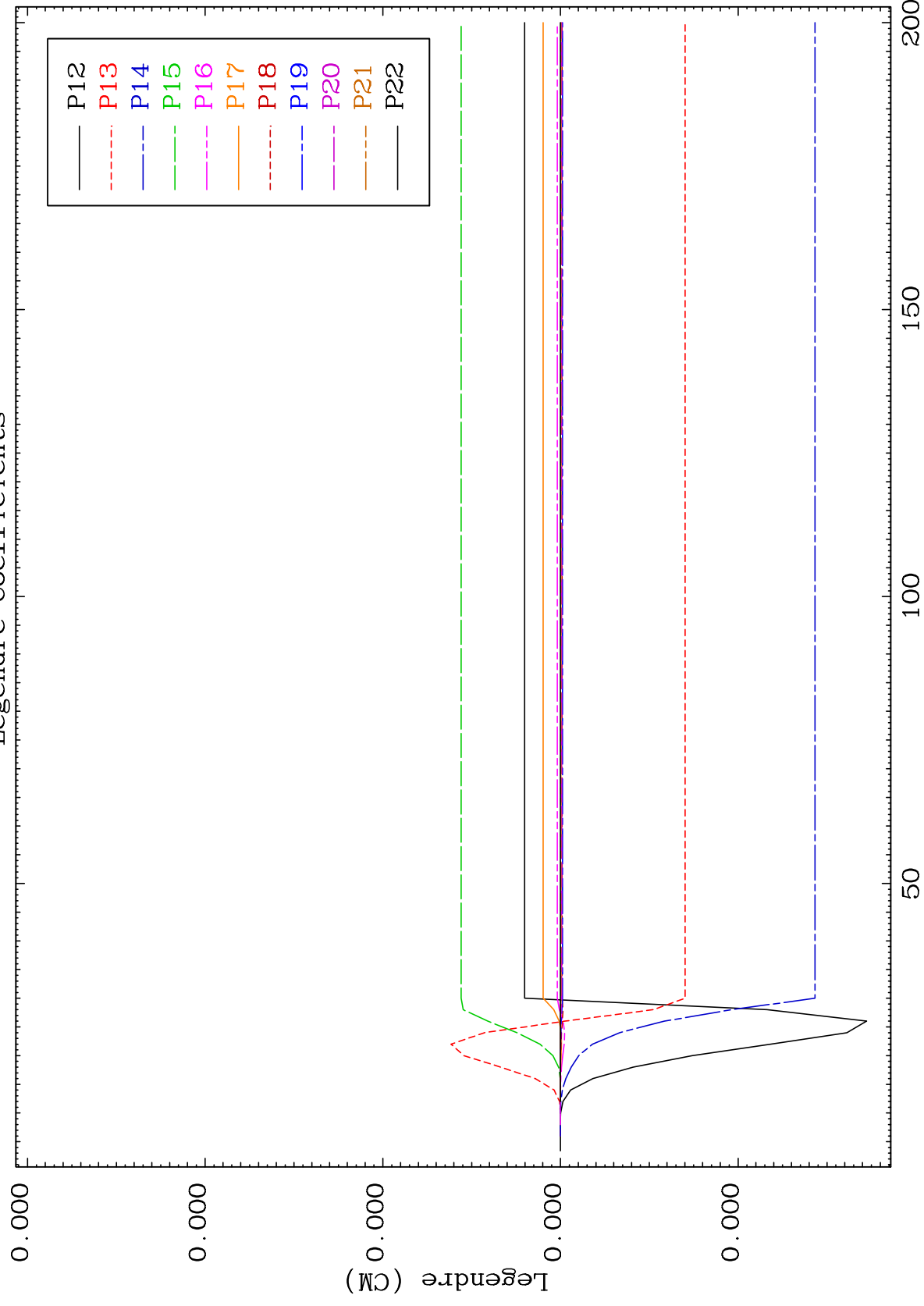
51-Sb-131



MAT 5155

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

51-Sb-131



48

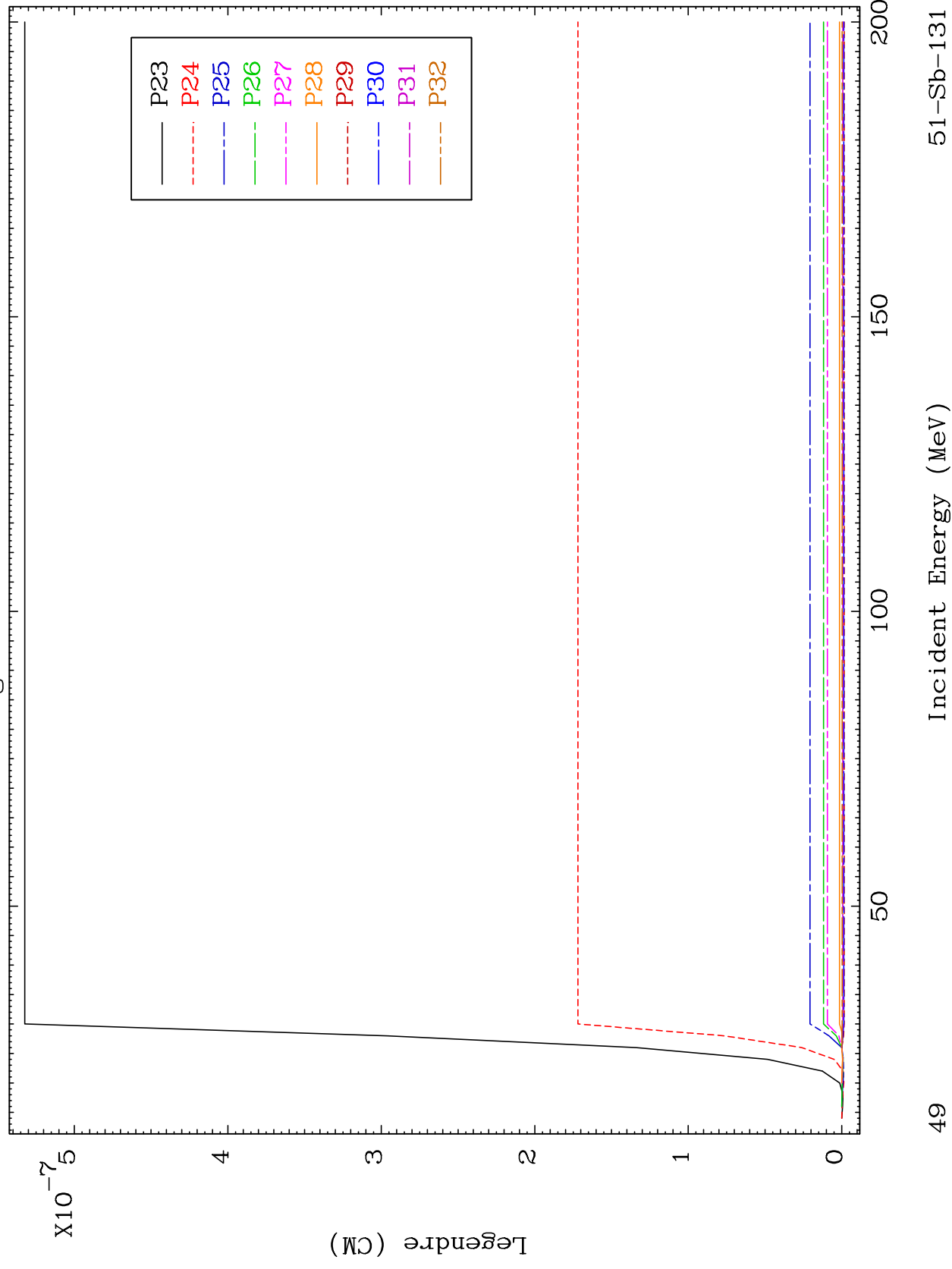
Incident Energy (MeV)

51-Sb-131

MAT 5155

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

51-Sb-131



49

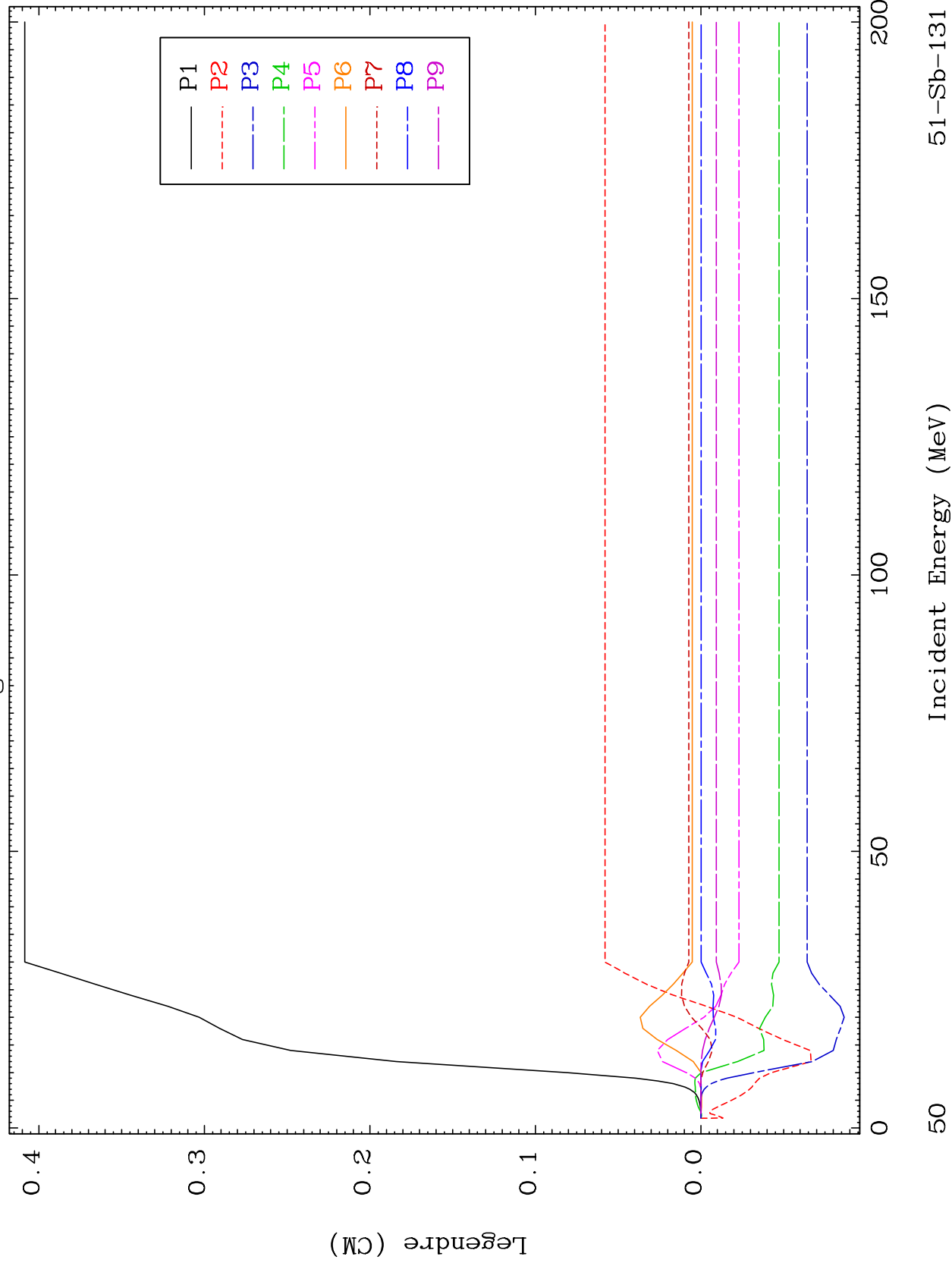
Incident Energy (MeV)

51-Sb-131

MAT 5155

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

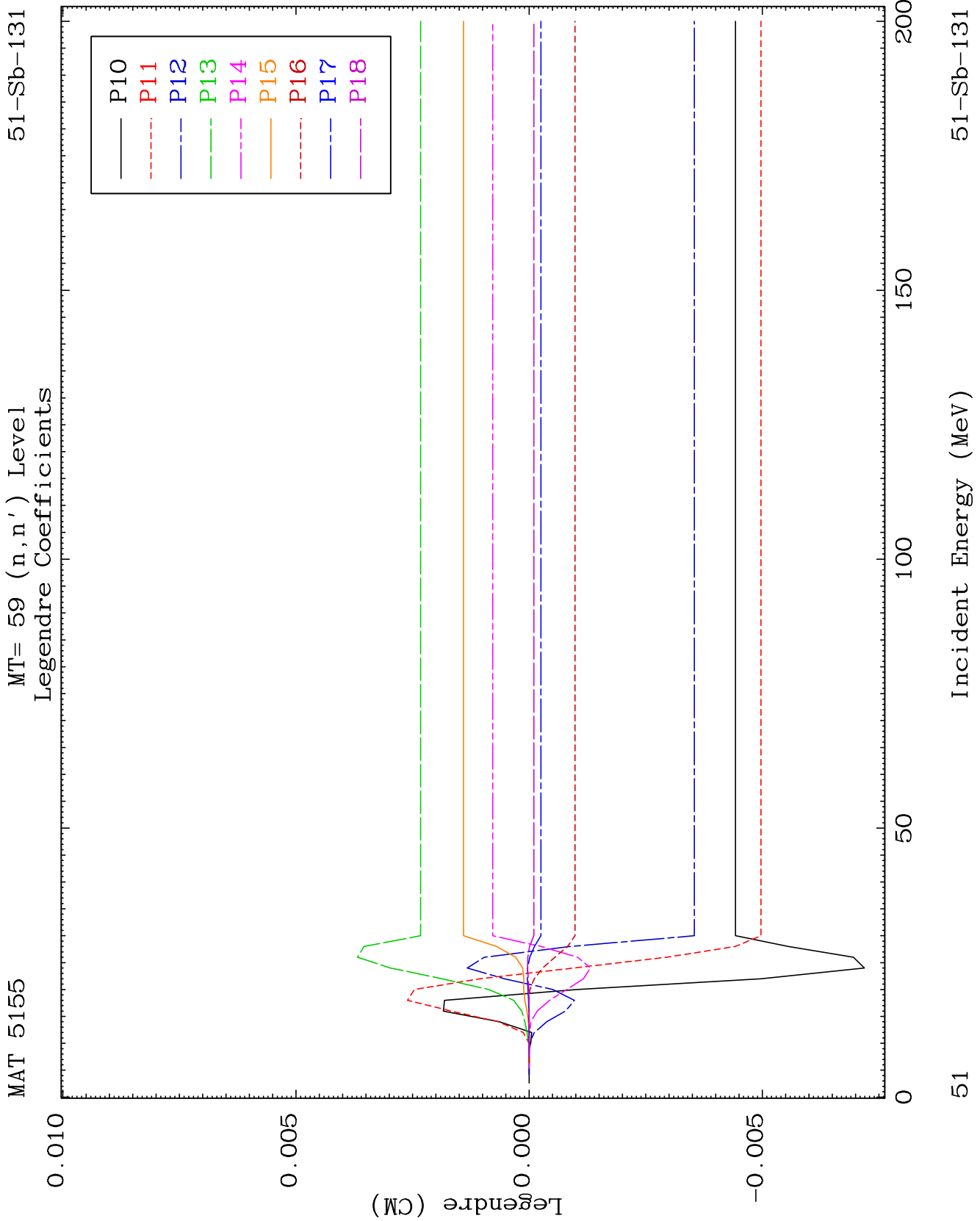
51-Sb-131

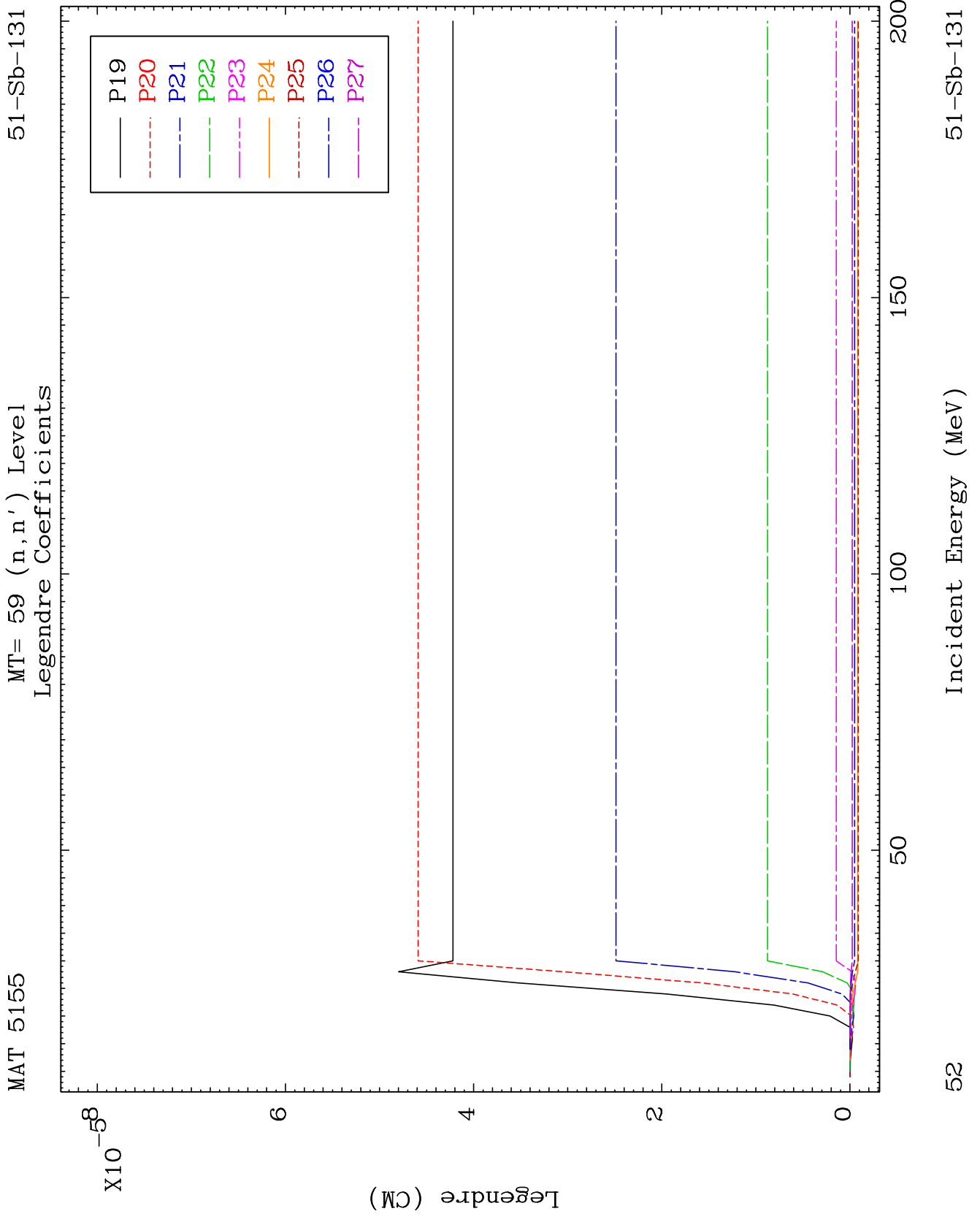


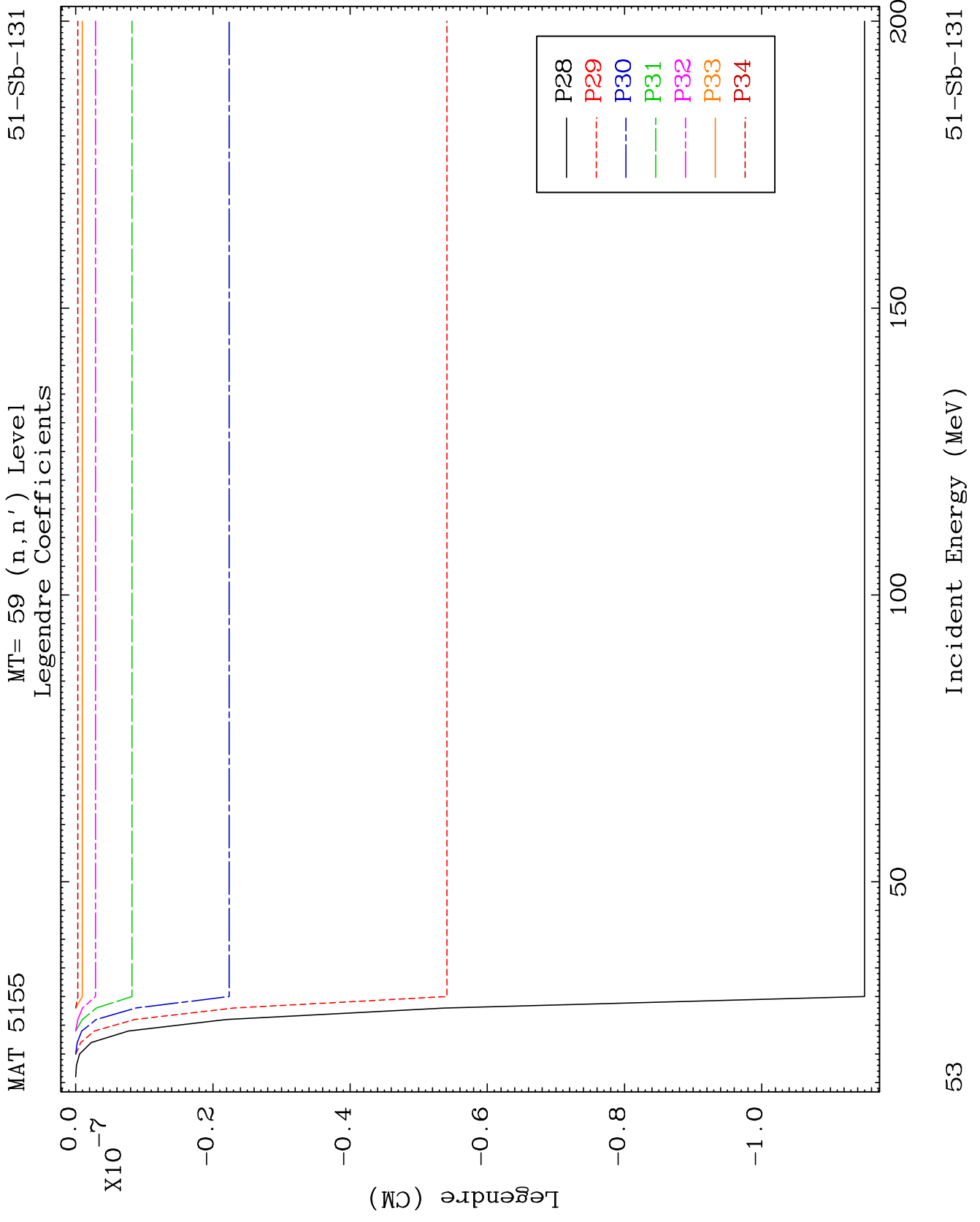
51-Sb-131

Incident Energy (MeV)

50



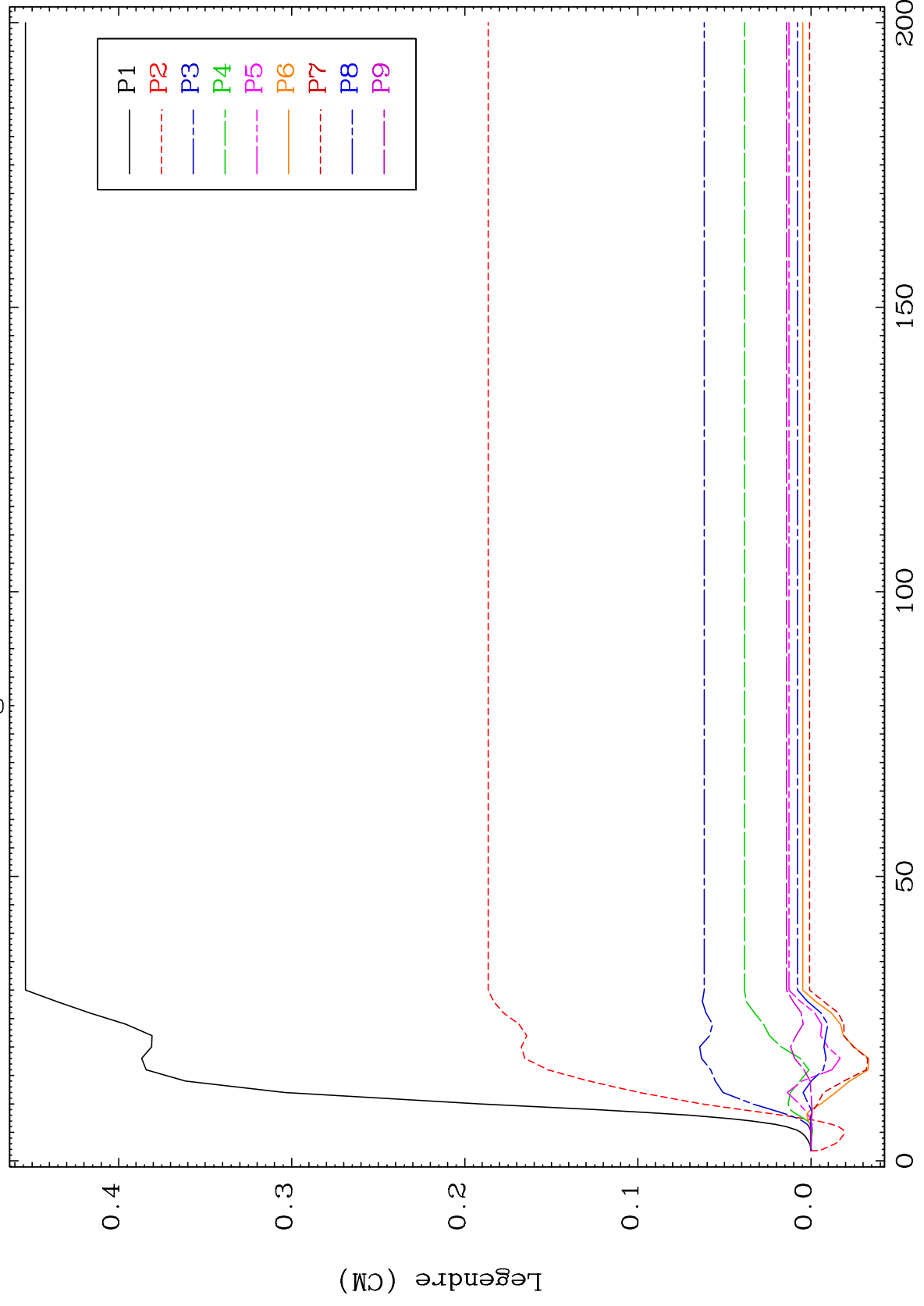




MAT 5155

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

51-Sb-131



54

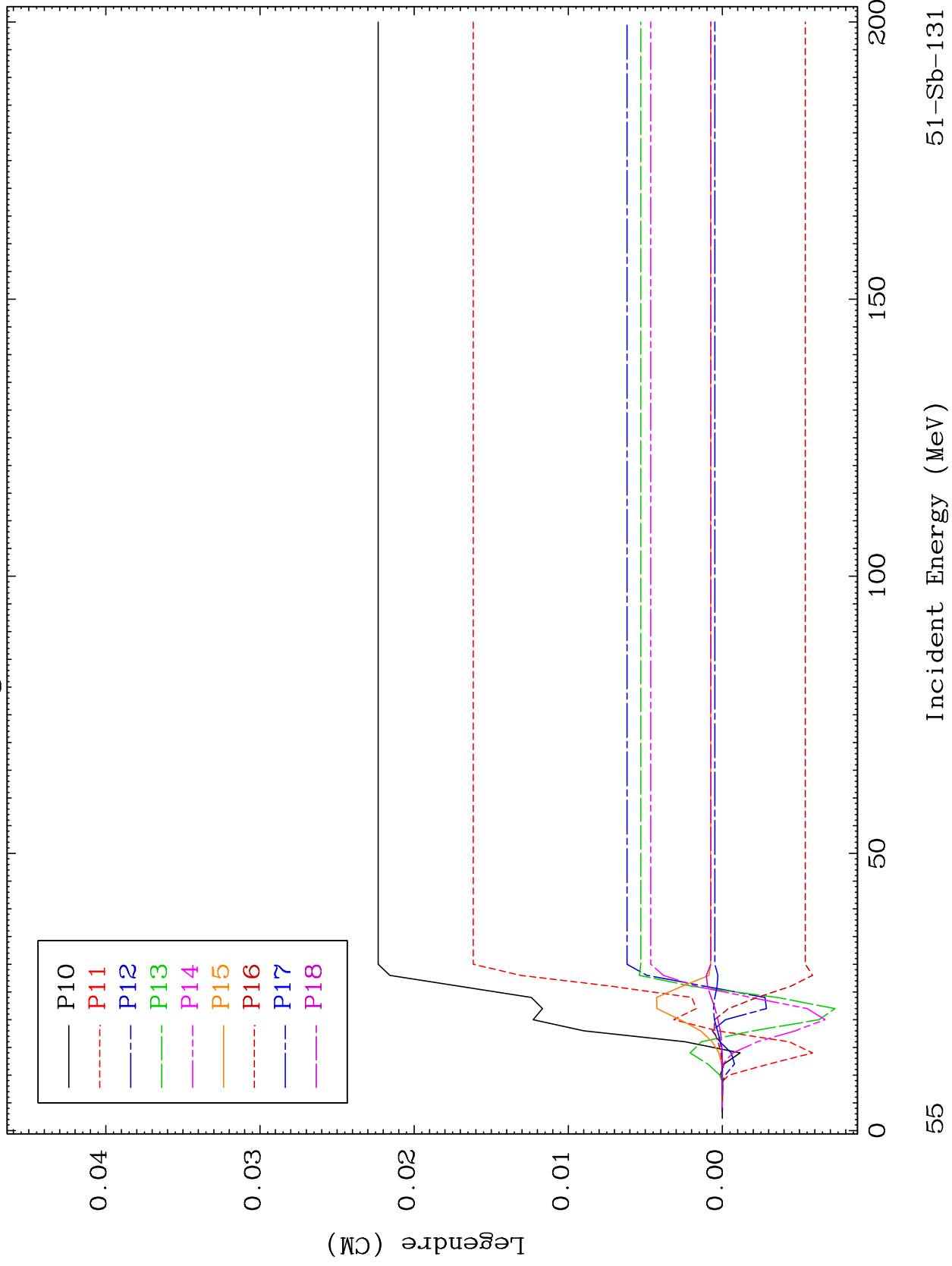
Incident Energy (MeV)

51-Sb-131

MAT 5155

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

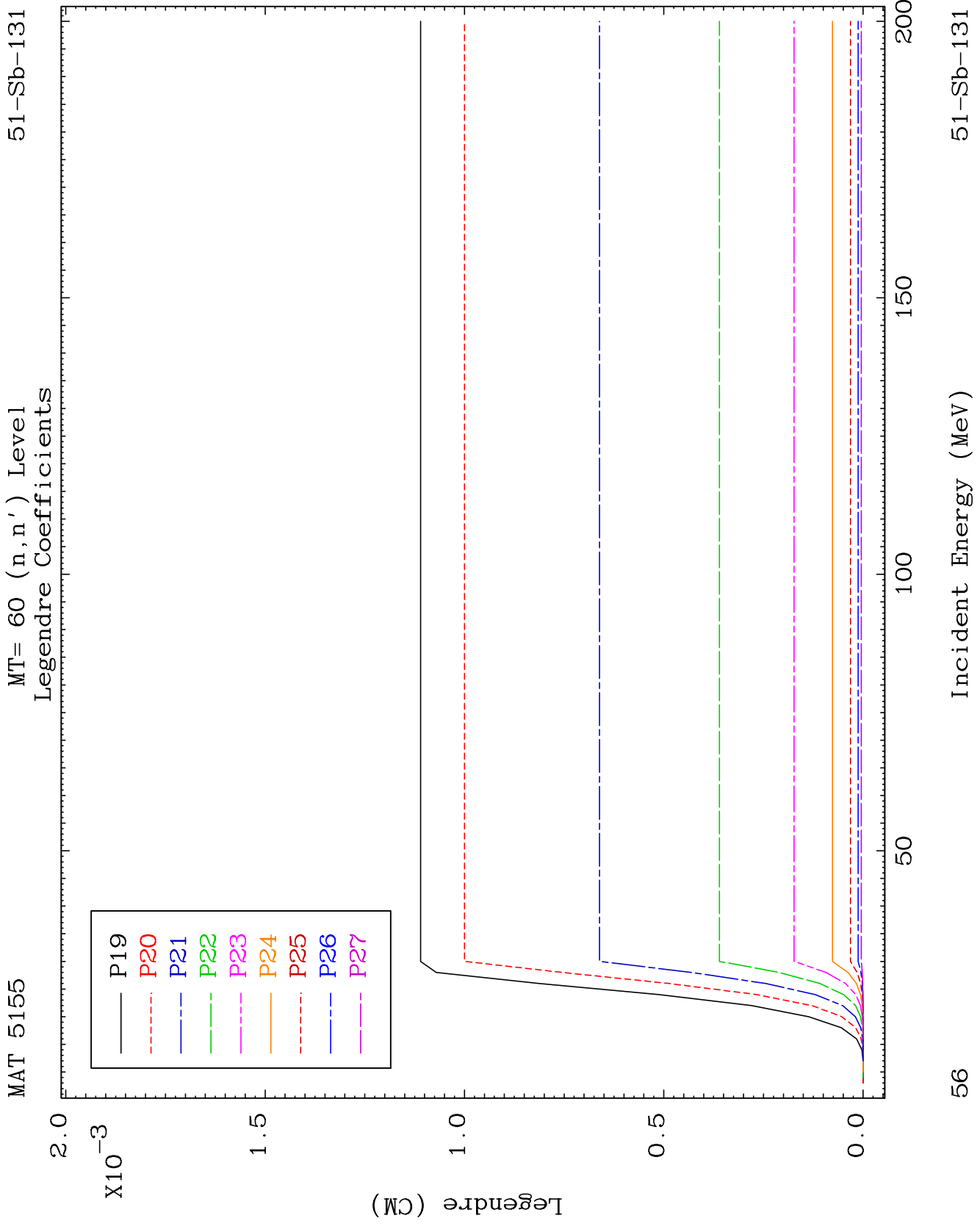
51-Sb-131



51-Sb-131

Incident Energy (MeV)

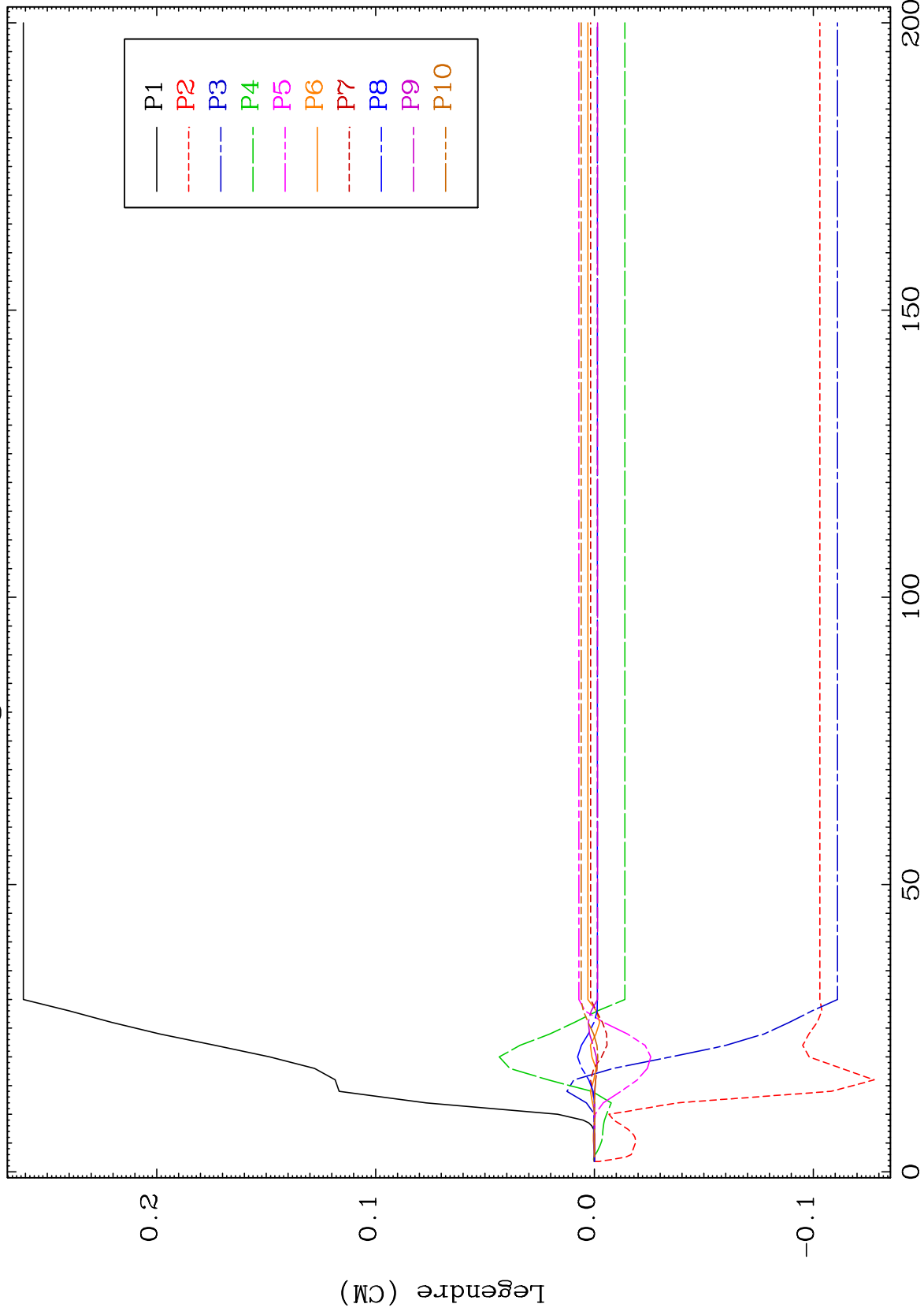
55



MAT 5155

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

51-Sb-131



58

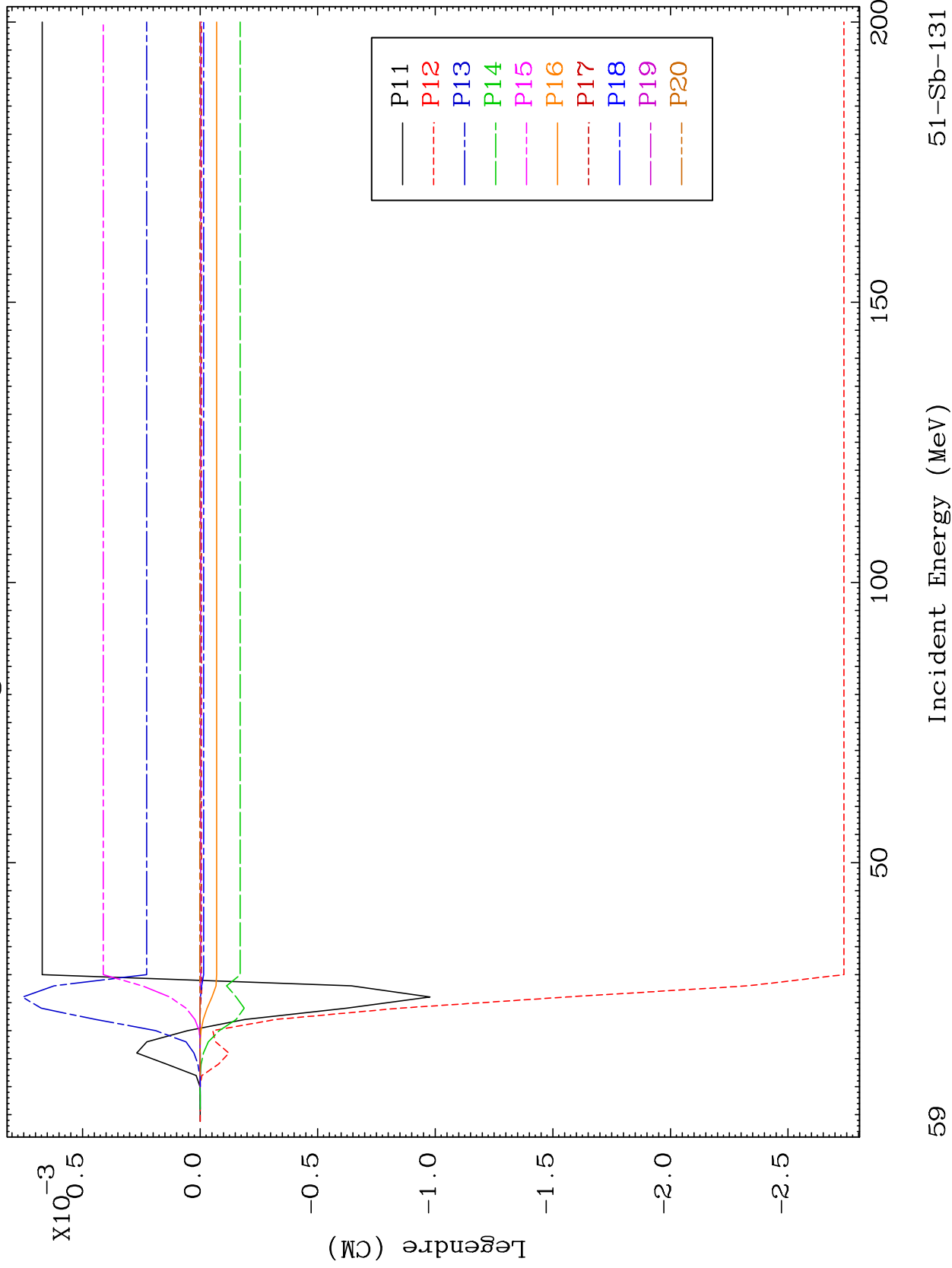
Incident Energy (MeV)

51-Sb-131

MAT 5155

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

51-Sb-131



59

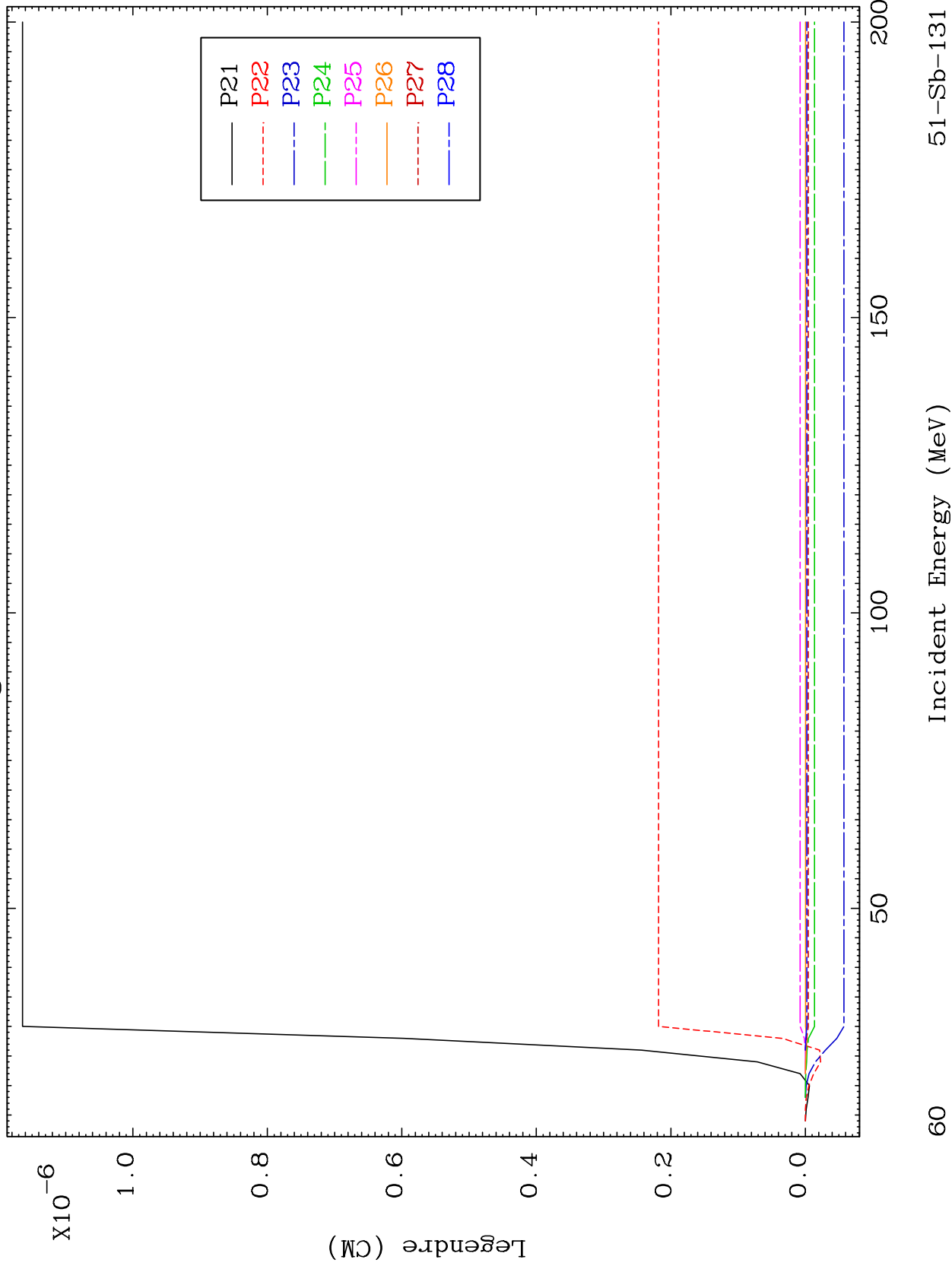
Incident Energy (MeV)

51-Sb-131

MAT 5155

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

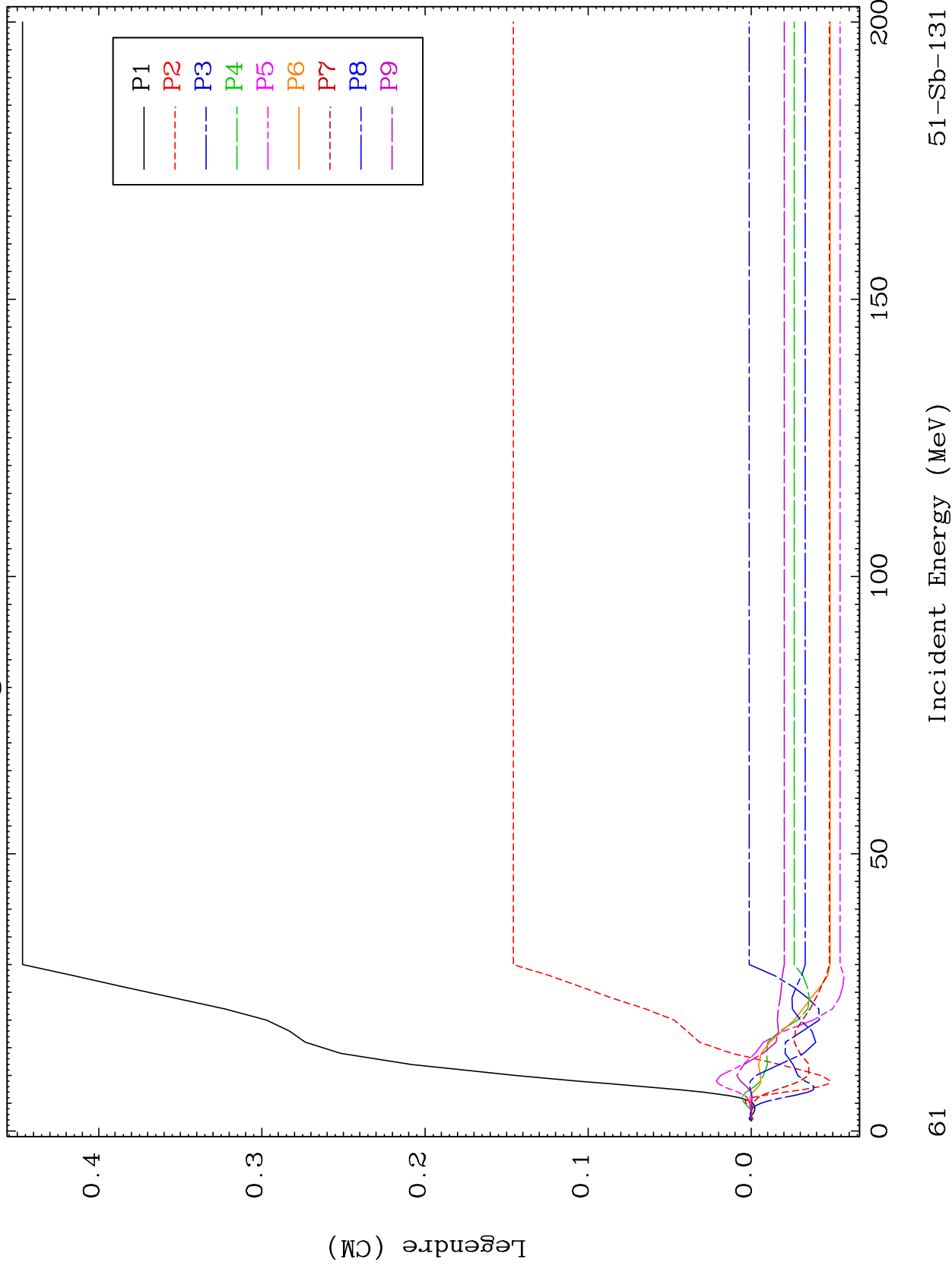
51-Sb-131

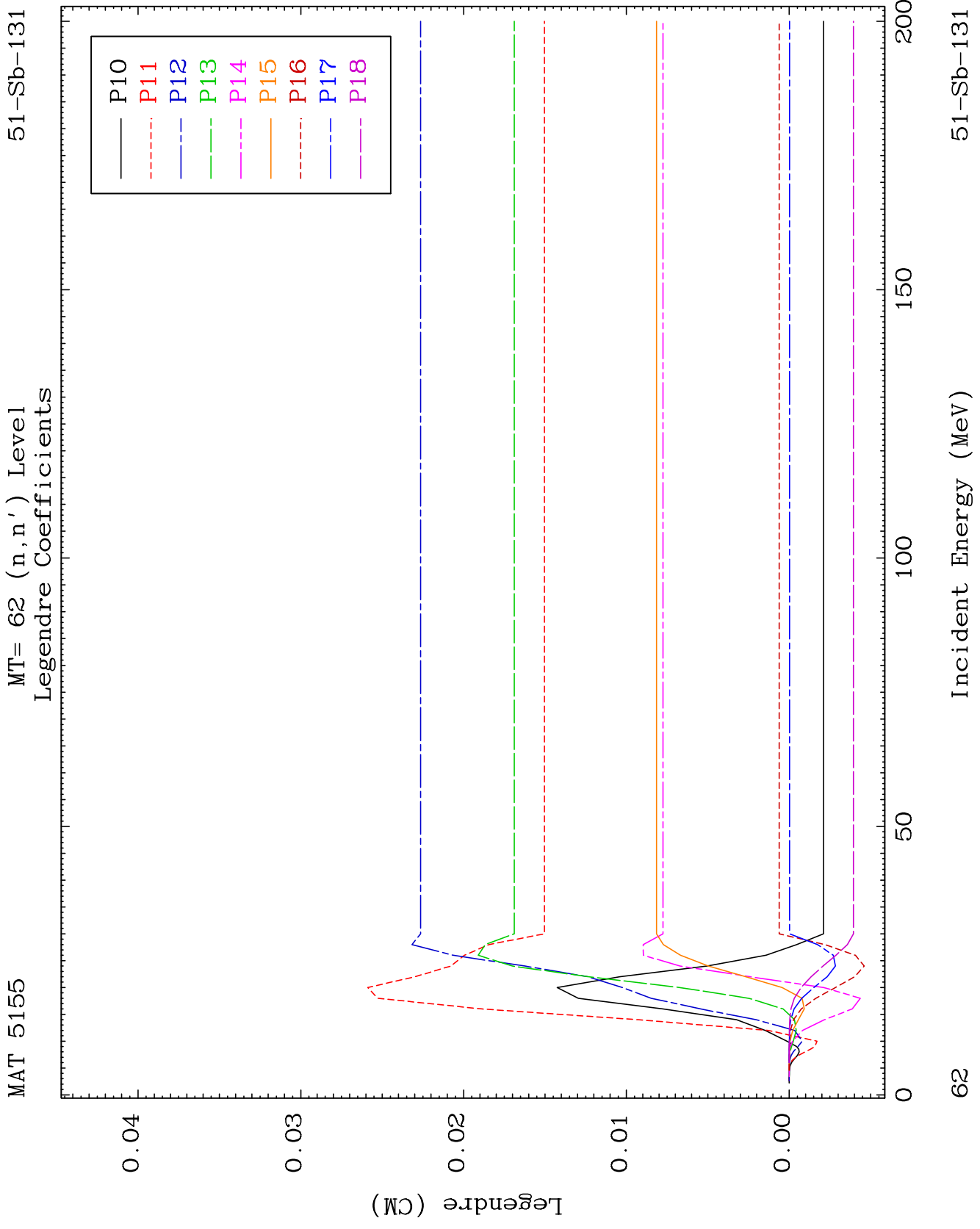


MAT 5155

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

51-Sb-131

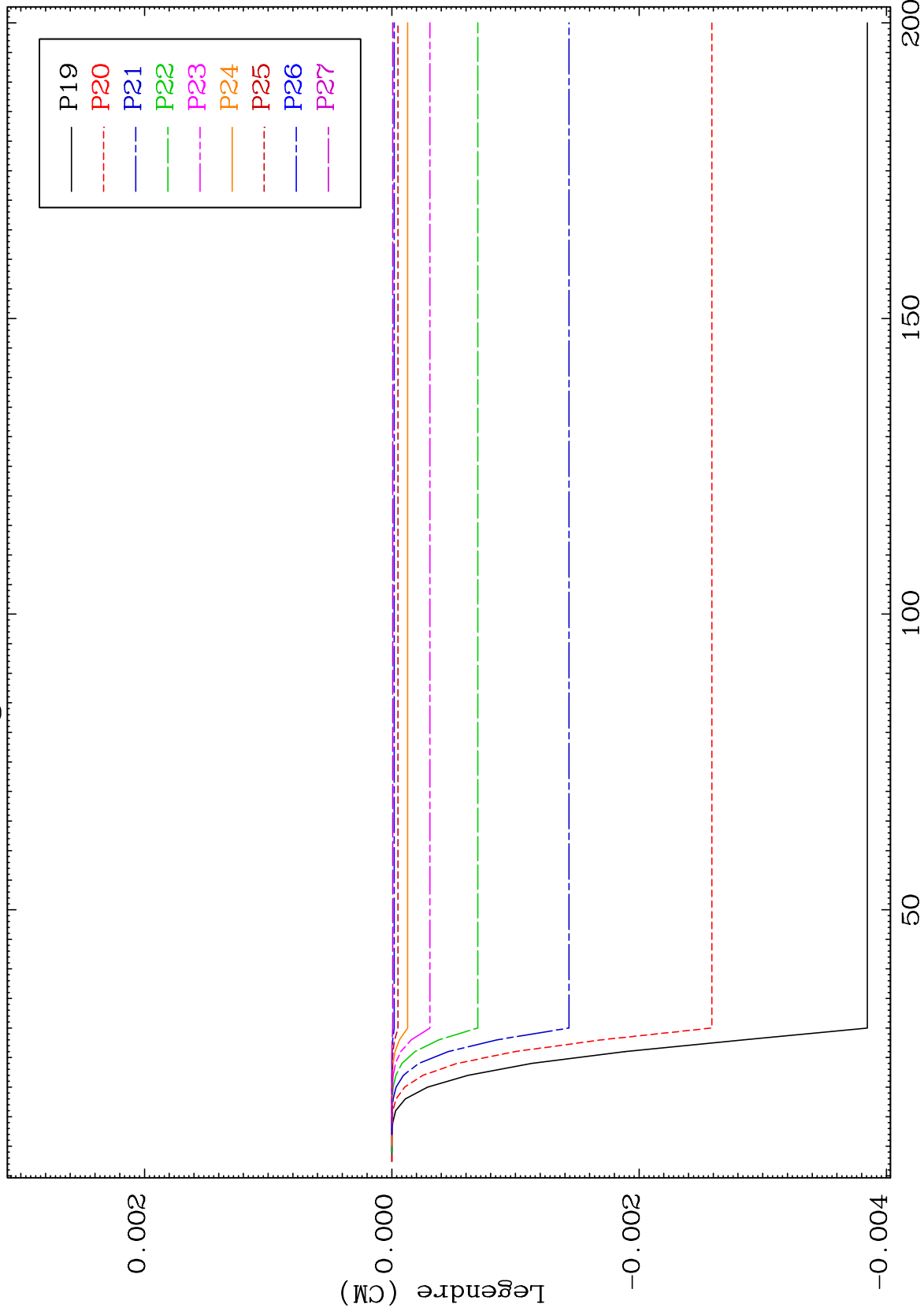




MAT 5155

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

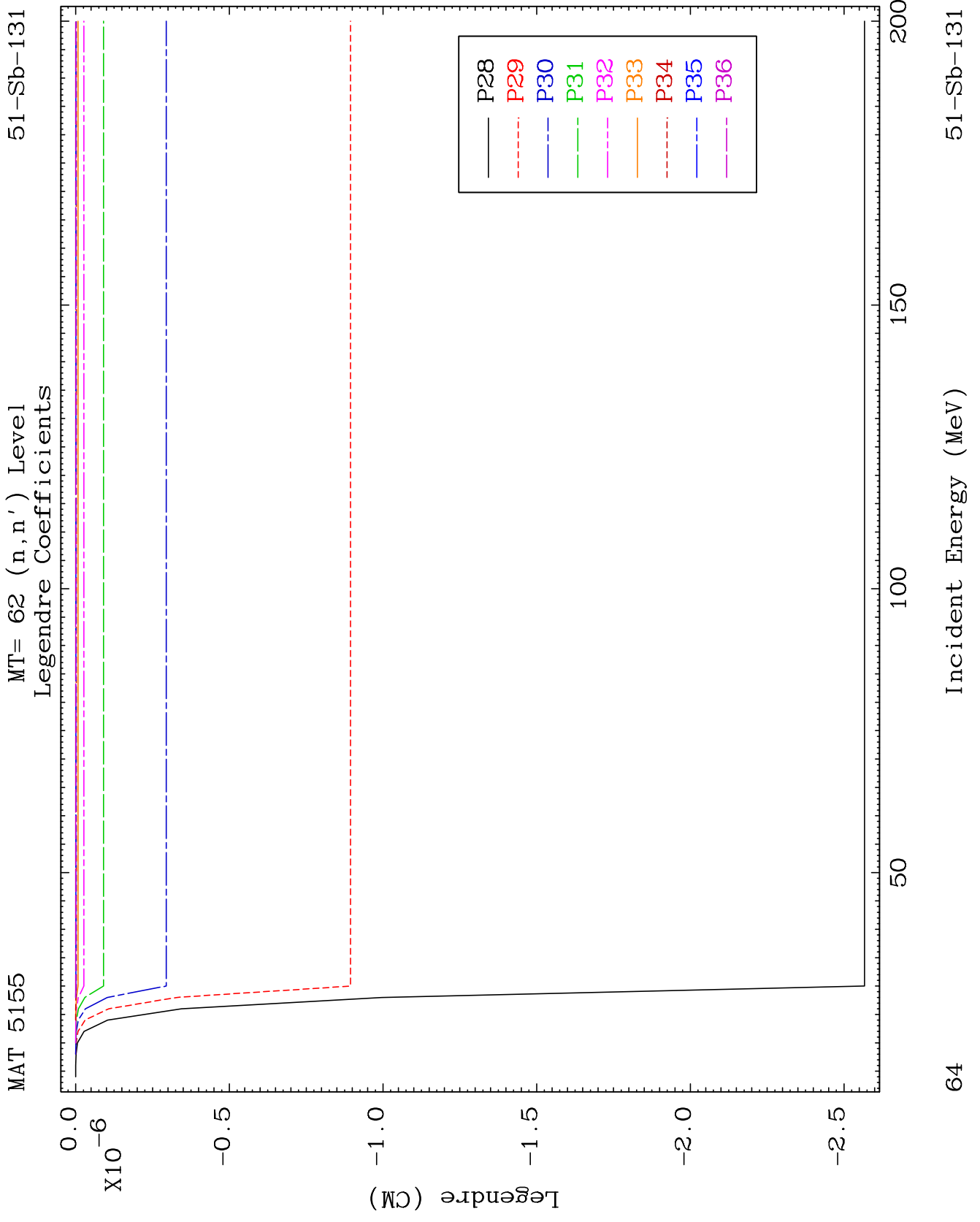
51-Sb-131



63

Incident Energy (MeV)

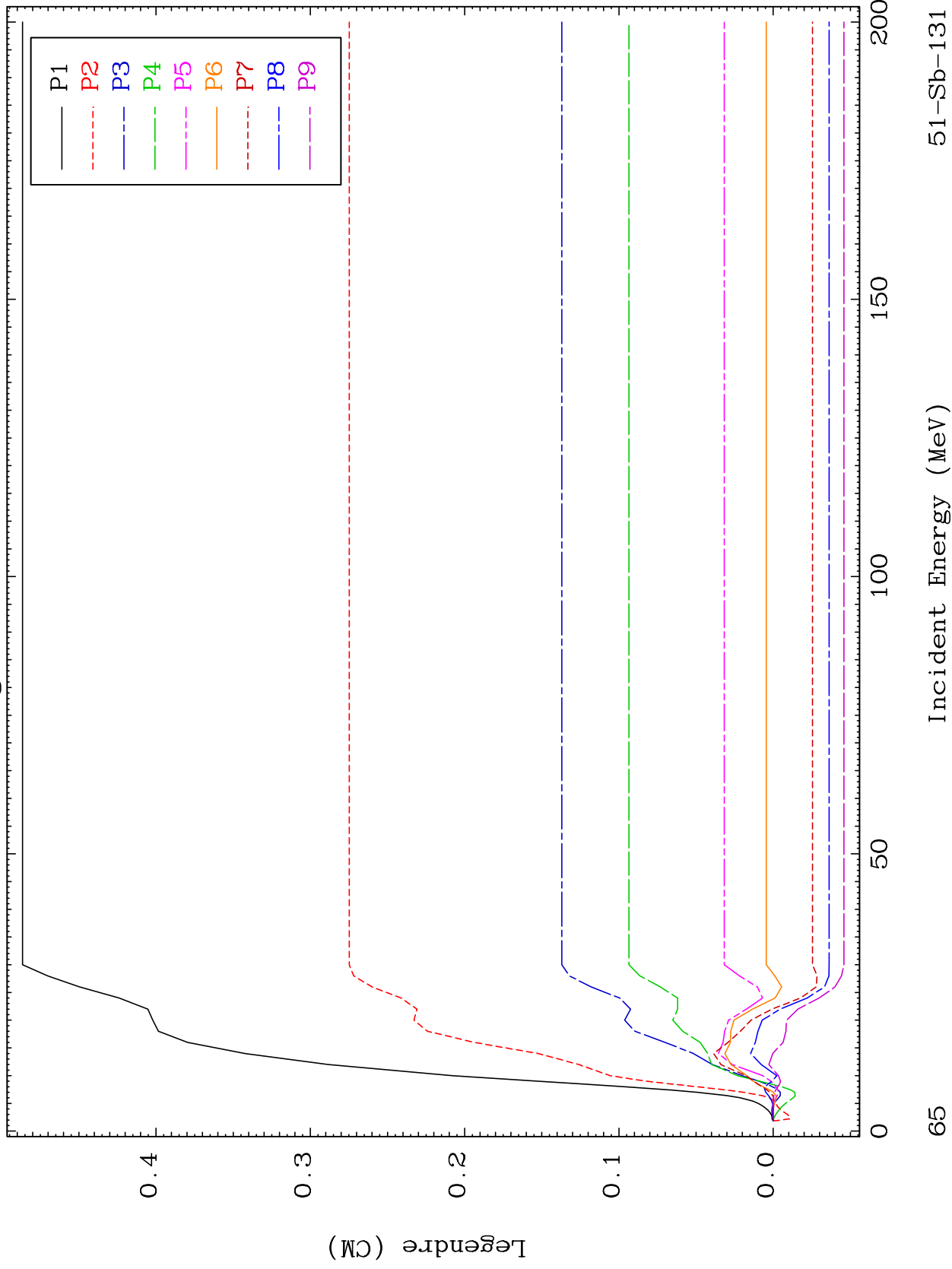
51-Sb-131



MAT 5155

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

51-Sb-131



51-Sb-131

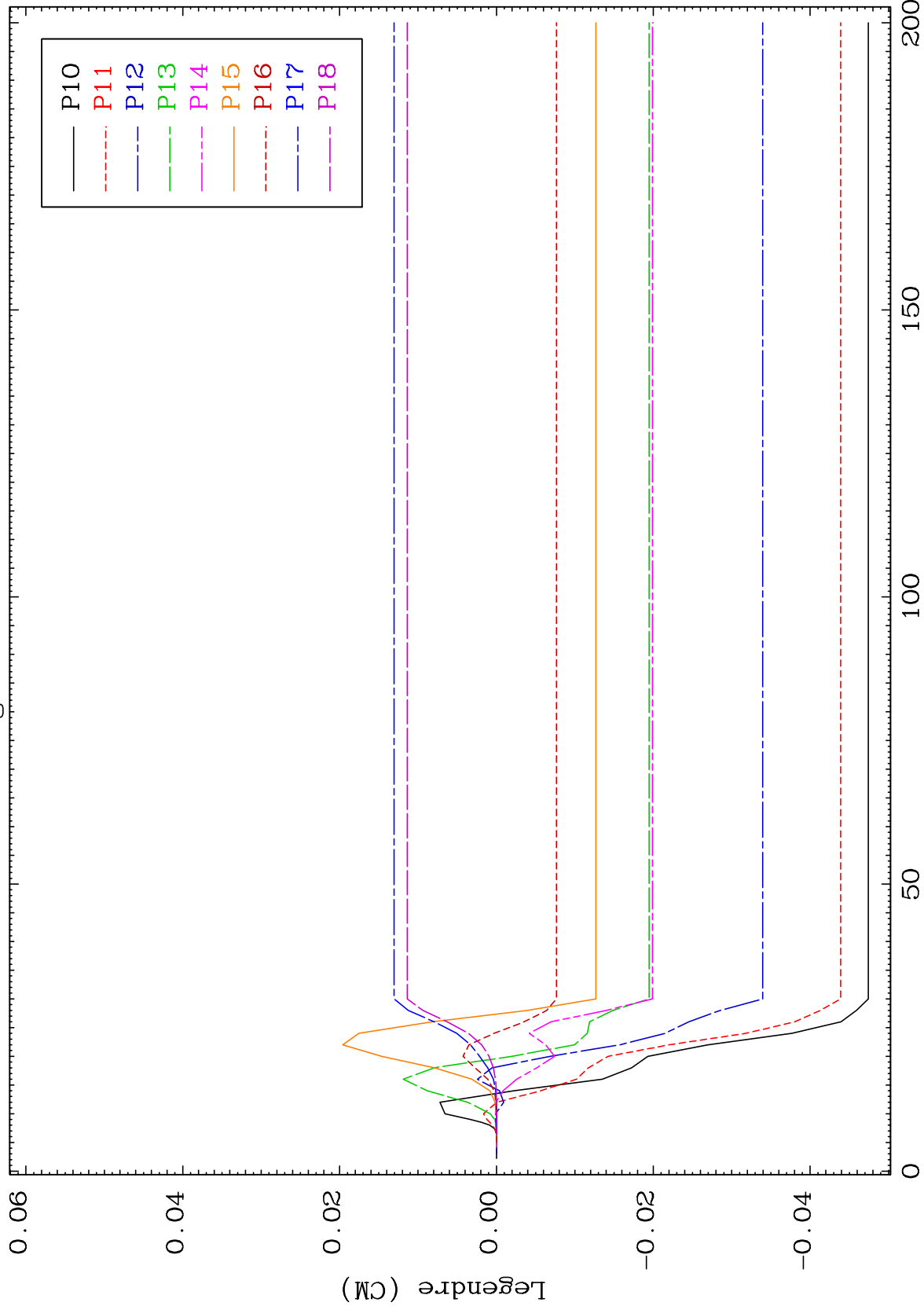
Incident Energy (MeV)

65

MAT 5155

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

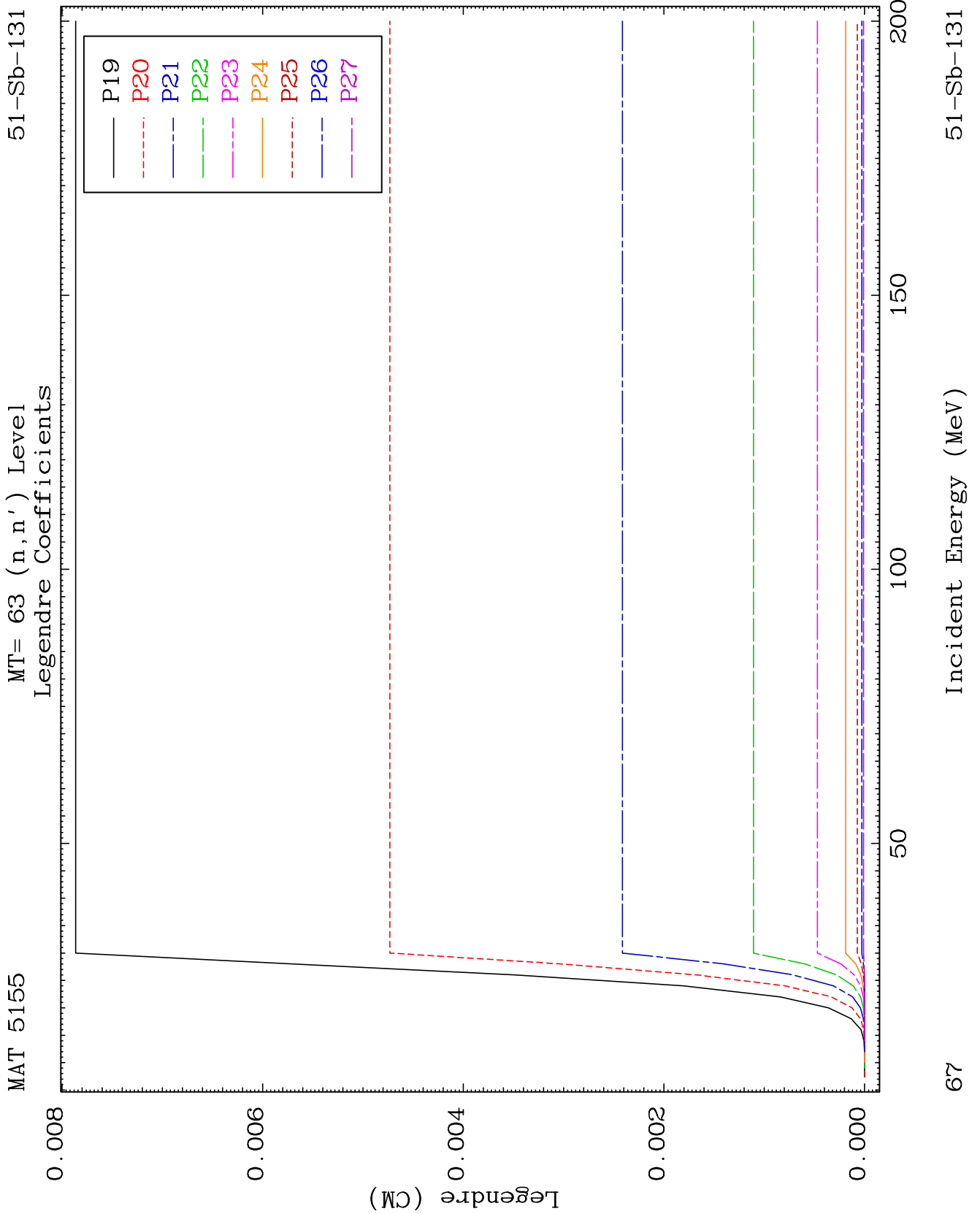
51-Sb-131



66

Incident Energy (MeV)

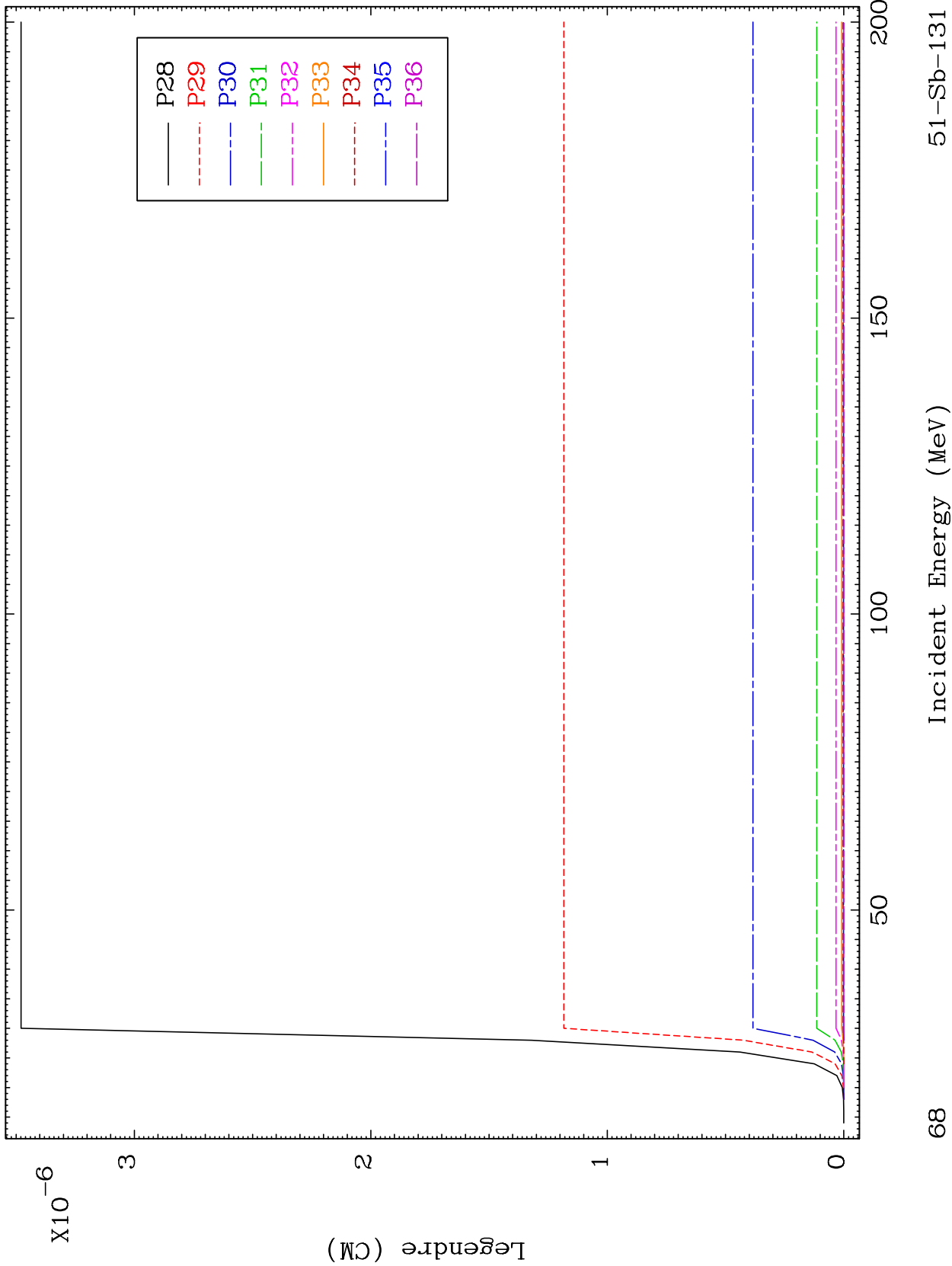
51-Sb-131



MAT 5155

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

51-Sb-131



68

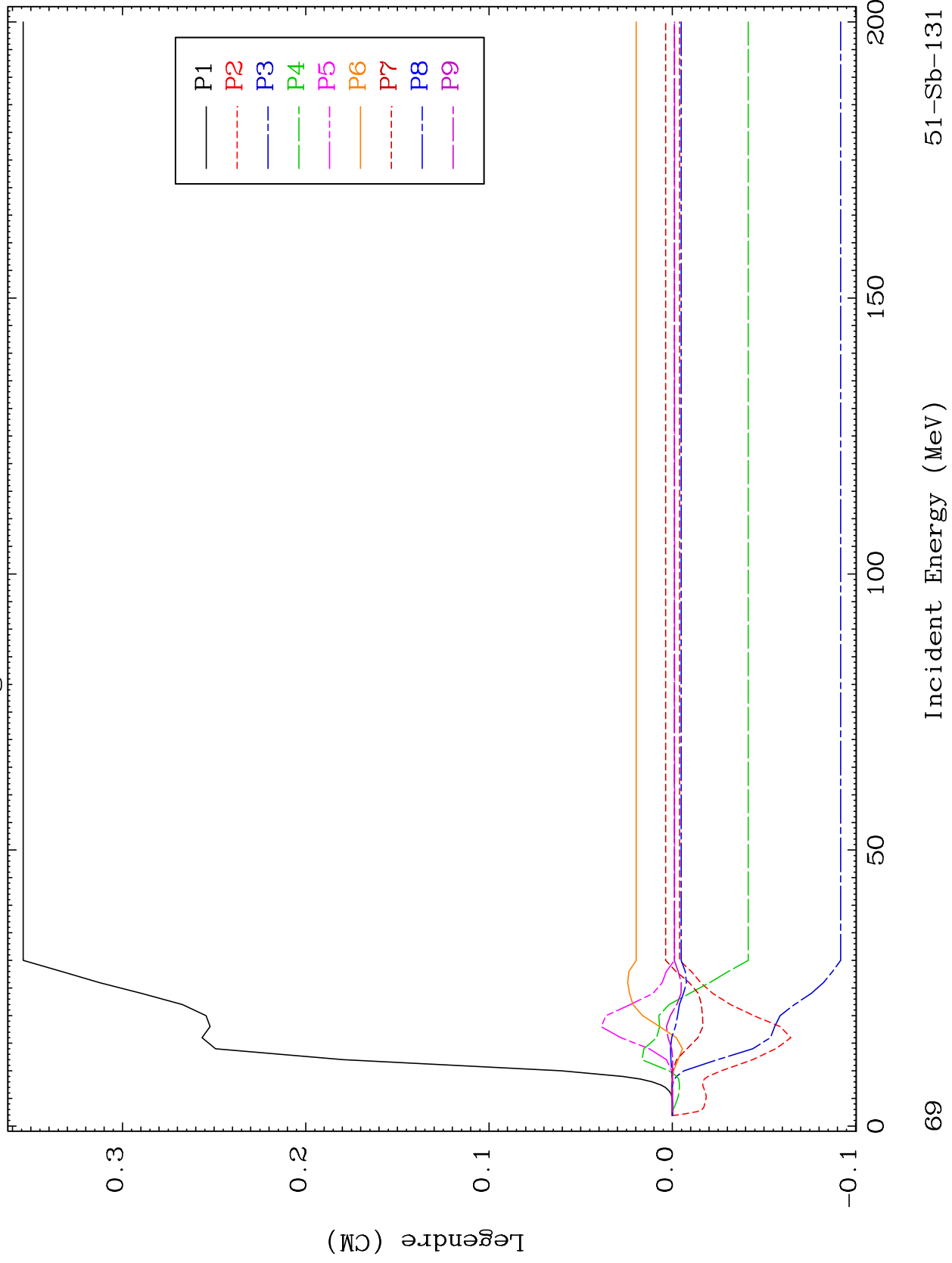
Incident Energy (MeV)

51-Sb-131

MAT 5155

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

51-Sb-131



51-Sb-131

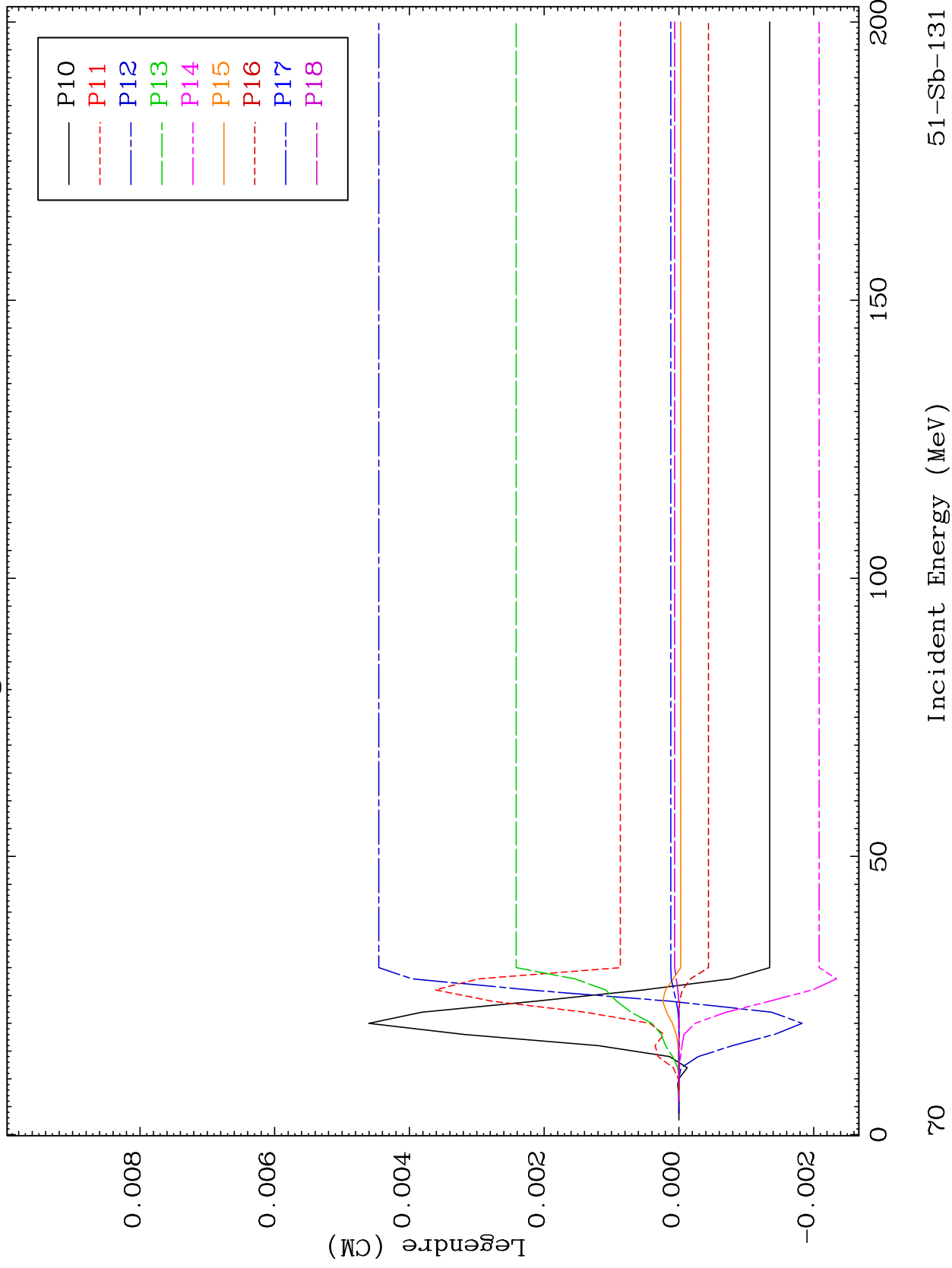
Incident Energy (MeV)

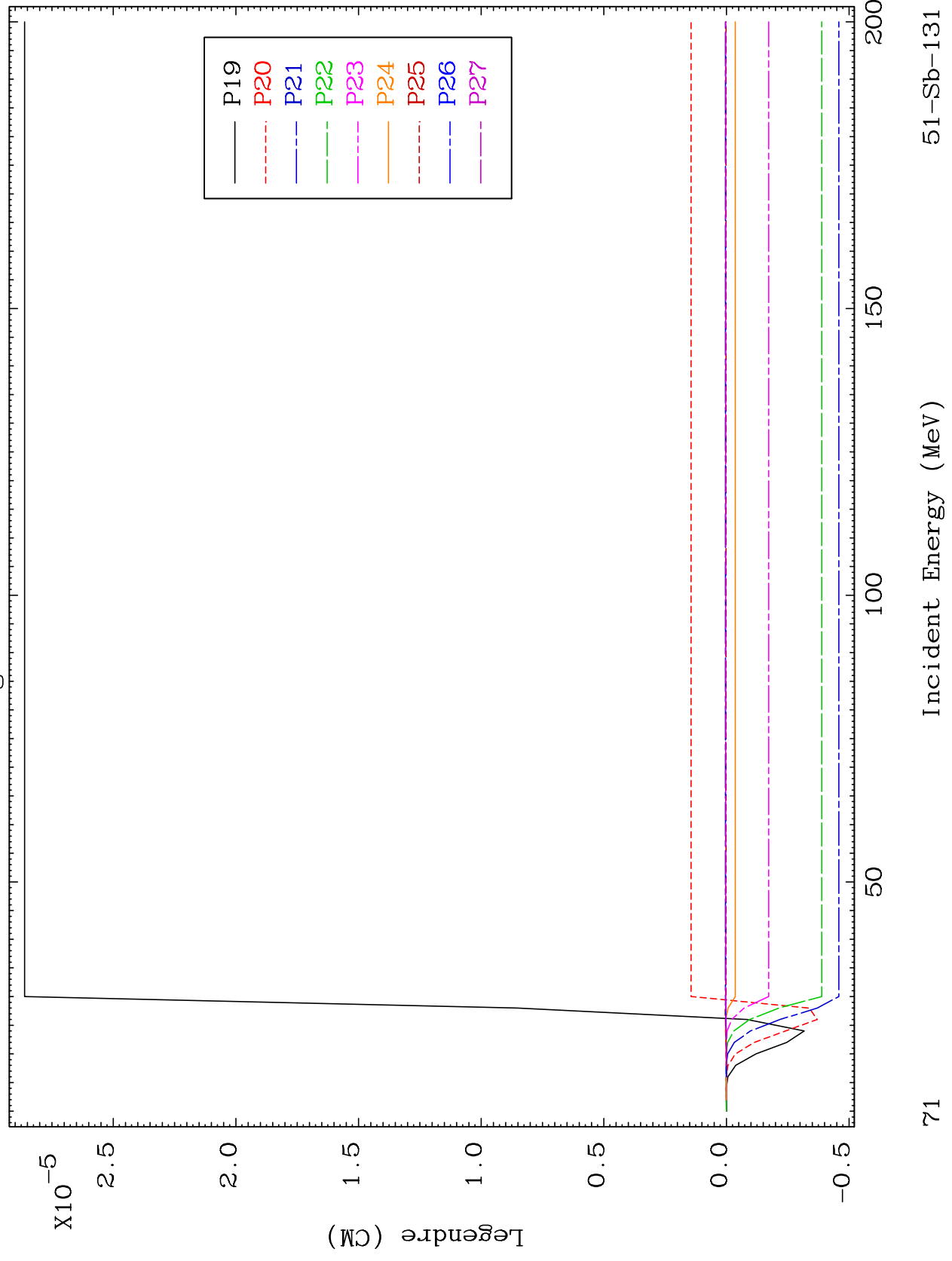
69

MAT 5155

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

51-Sb-131

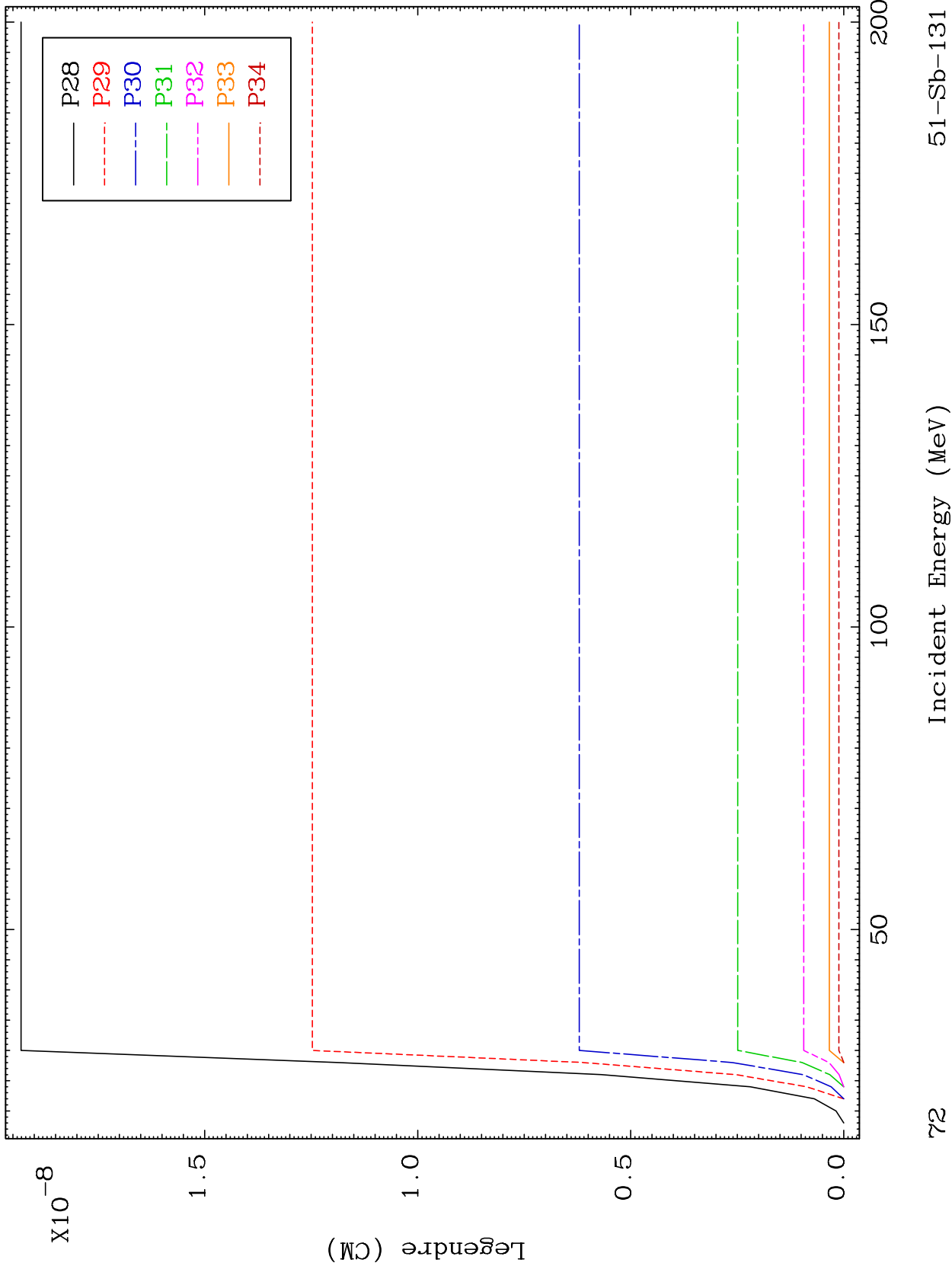




MAT 5155

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

51-Sb-131

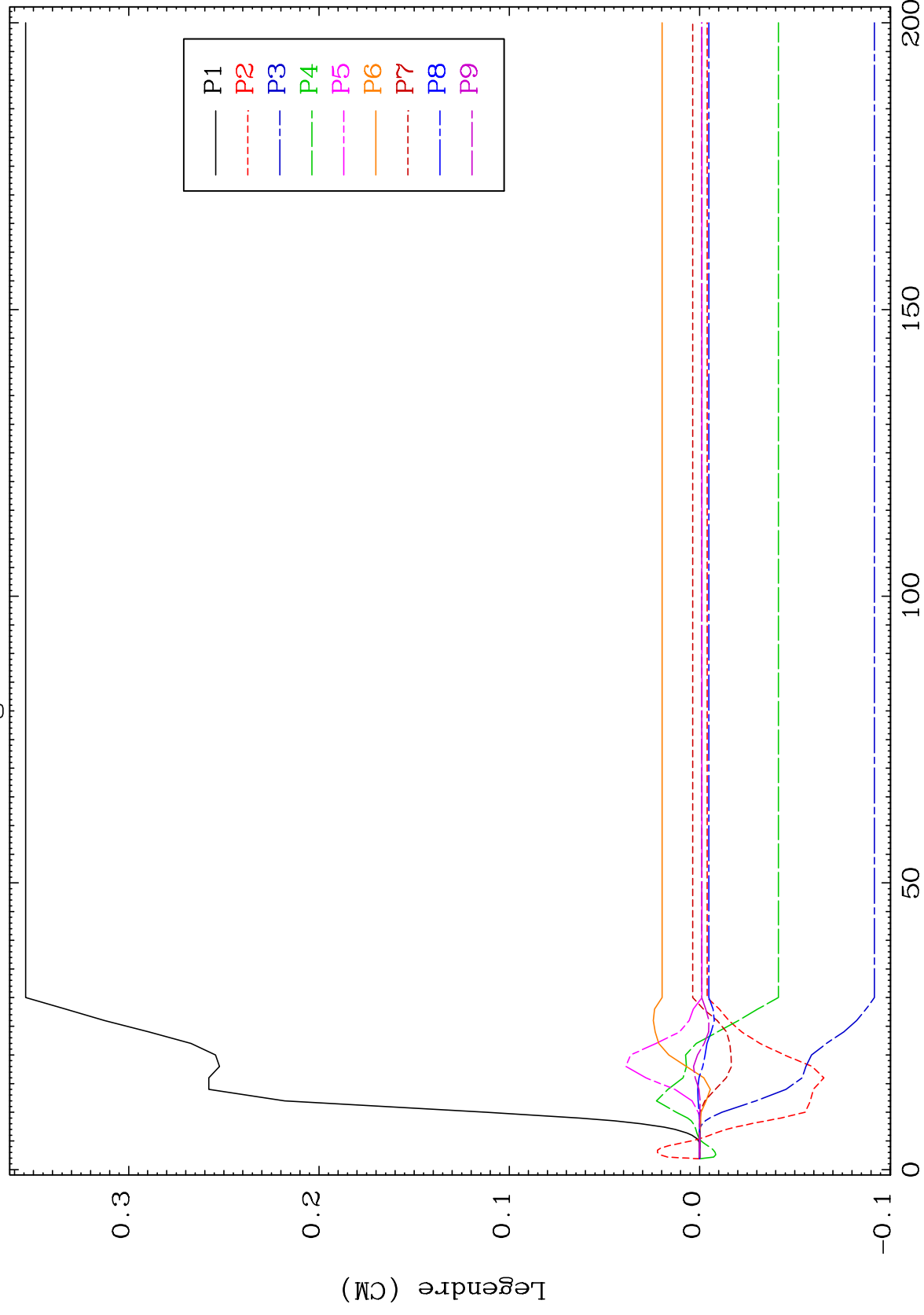


72

MAT 5155

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

51-Sb-131



73

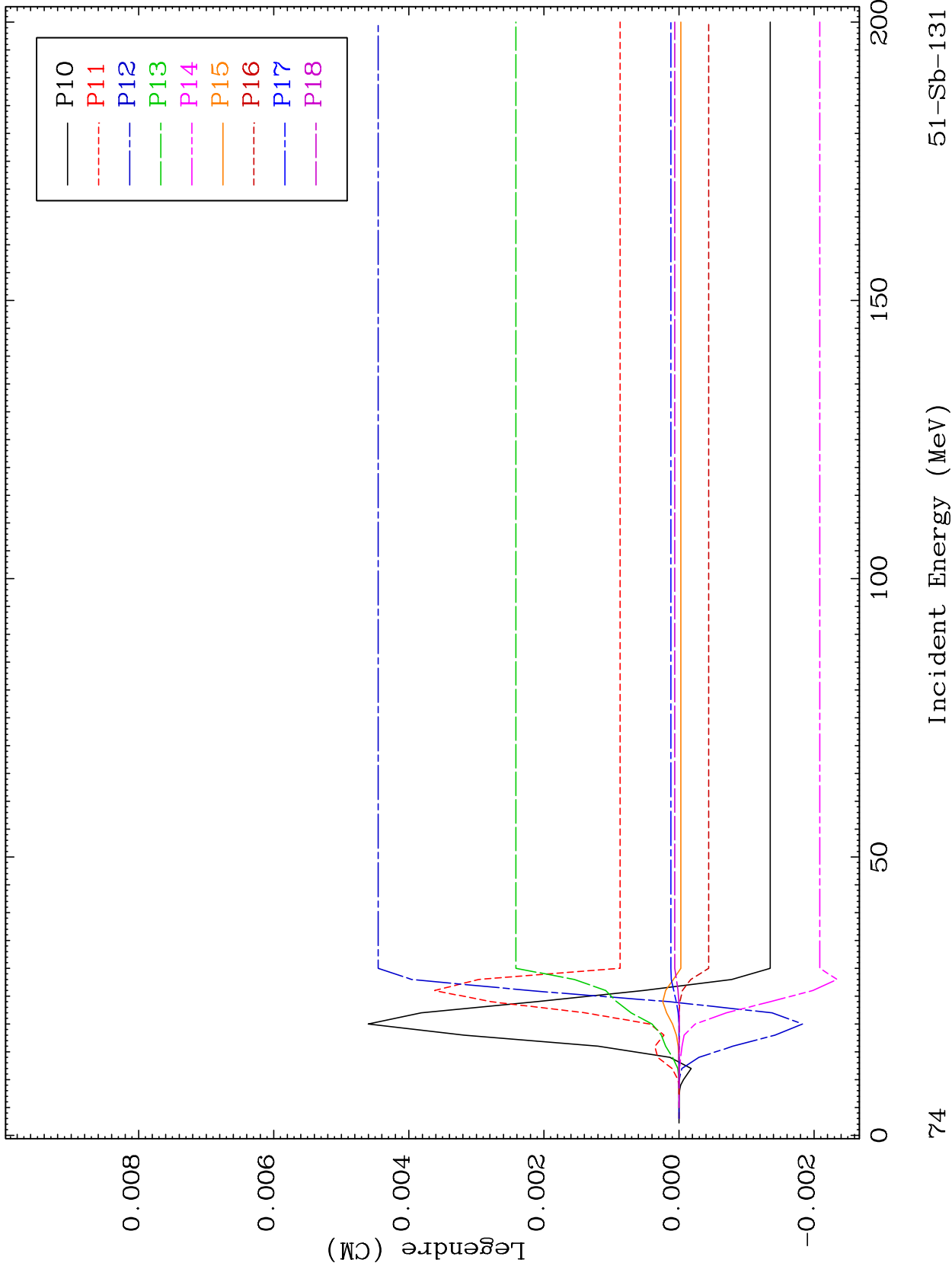
Incident Energy (MeV)

51-Sb-131

MAT 5155

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

51-Sb-131



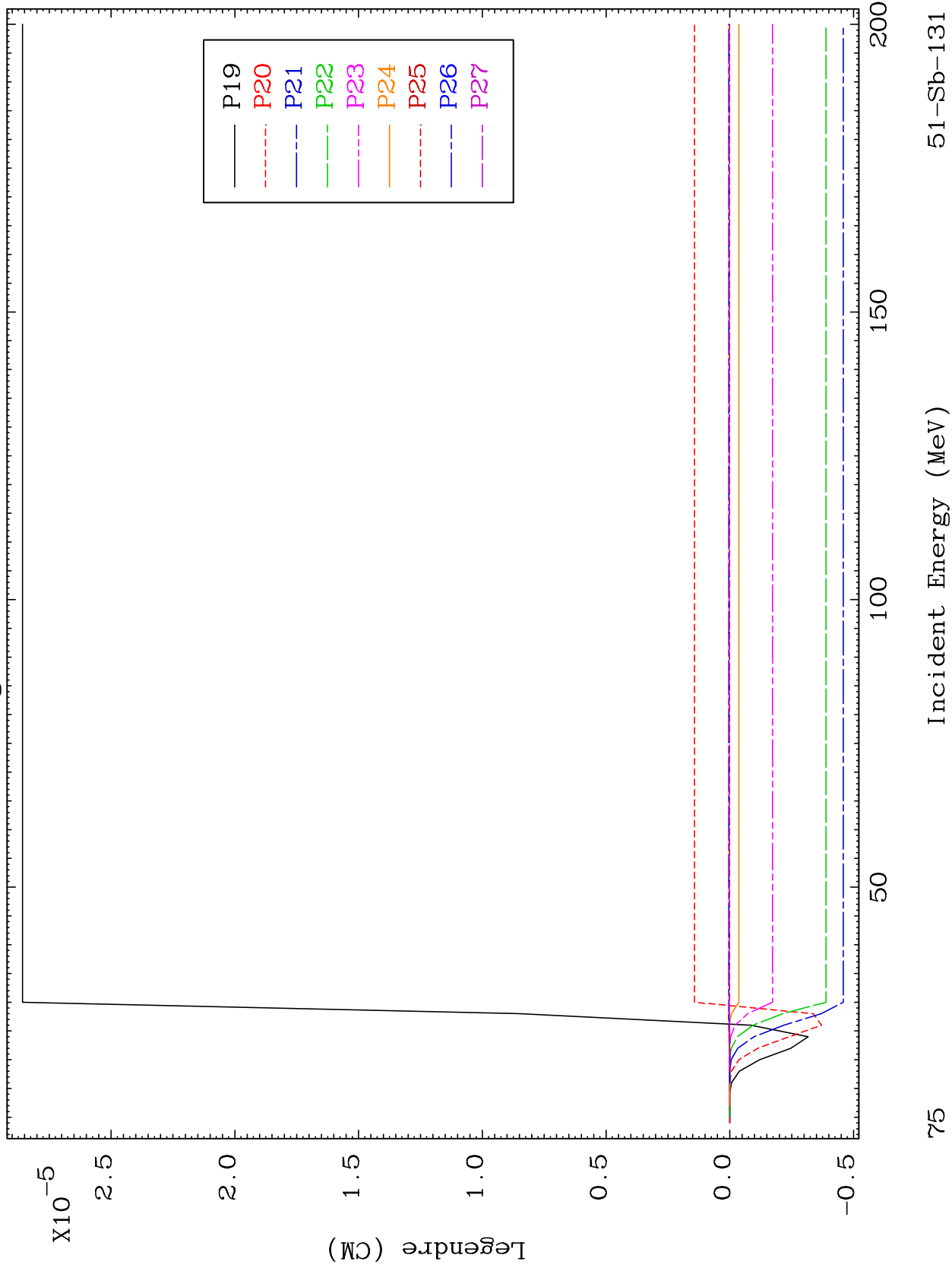
74

51-Sb-131

MAT 5155

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

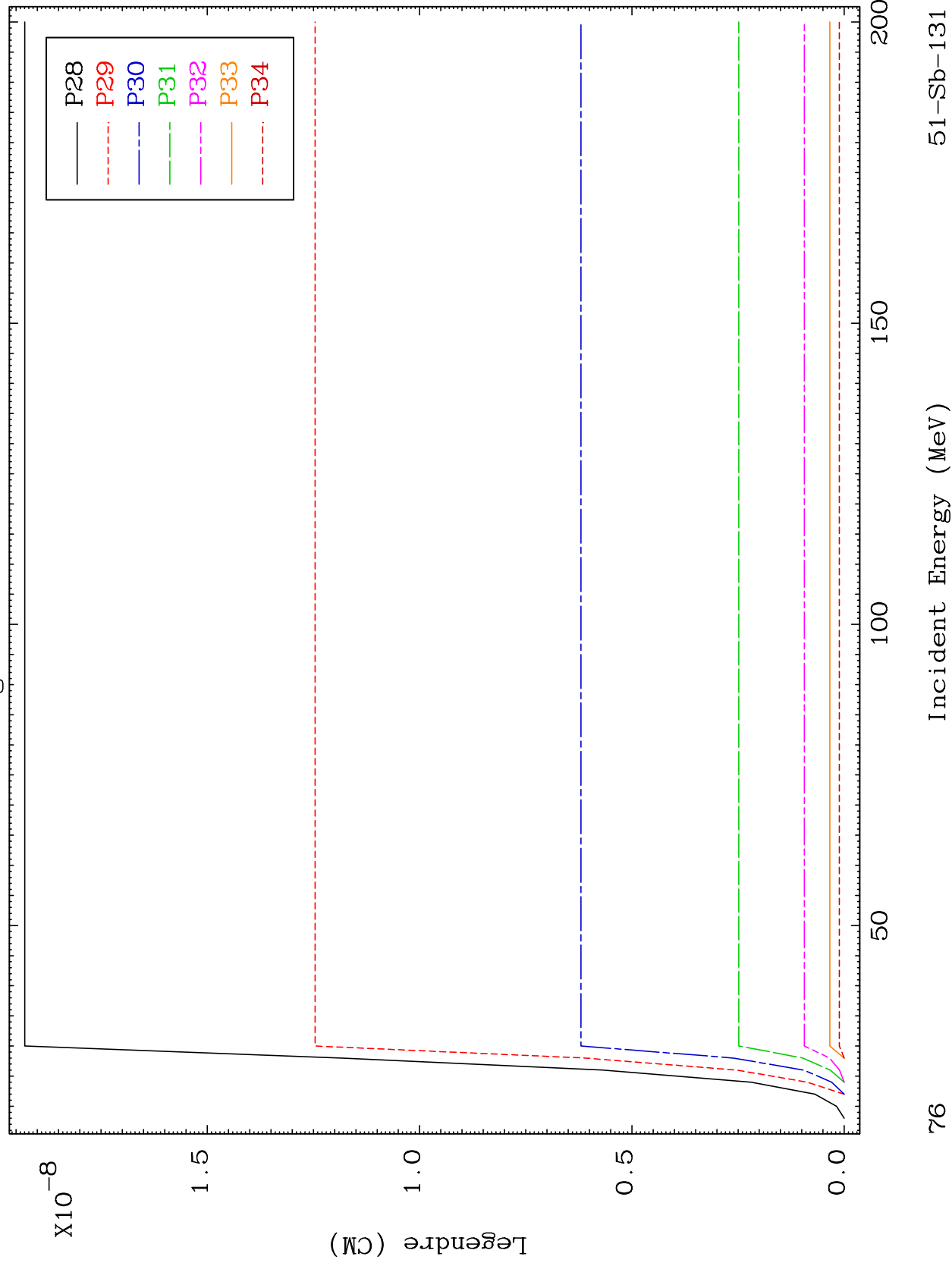
51-Sb-131



MAT 5155

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

51-Sb-131



76

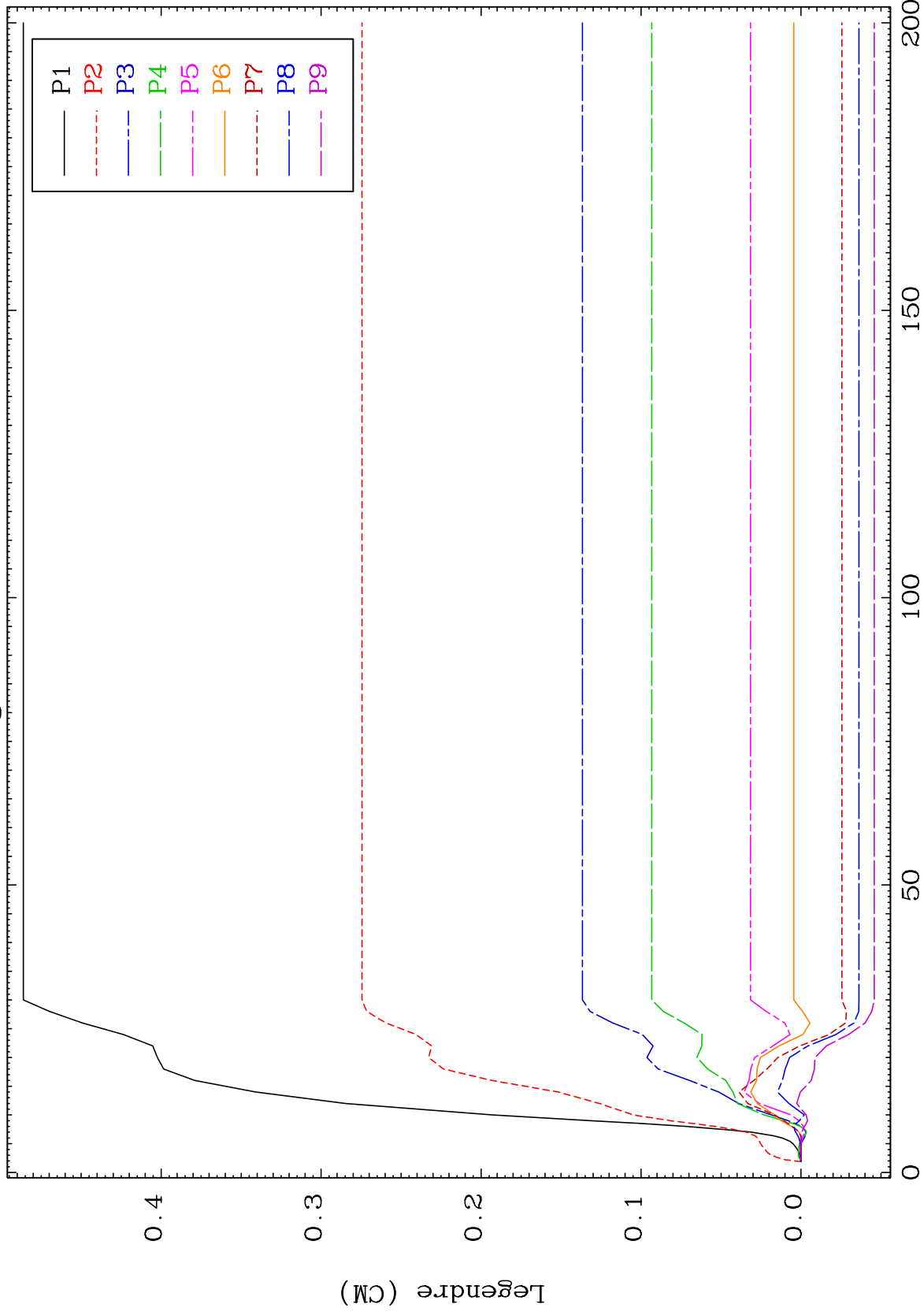
Incident Energy (MeV)

51-Sb-131

MAT 5155

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

51-Sb-131



77

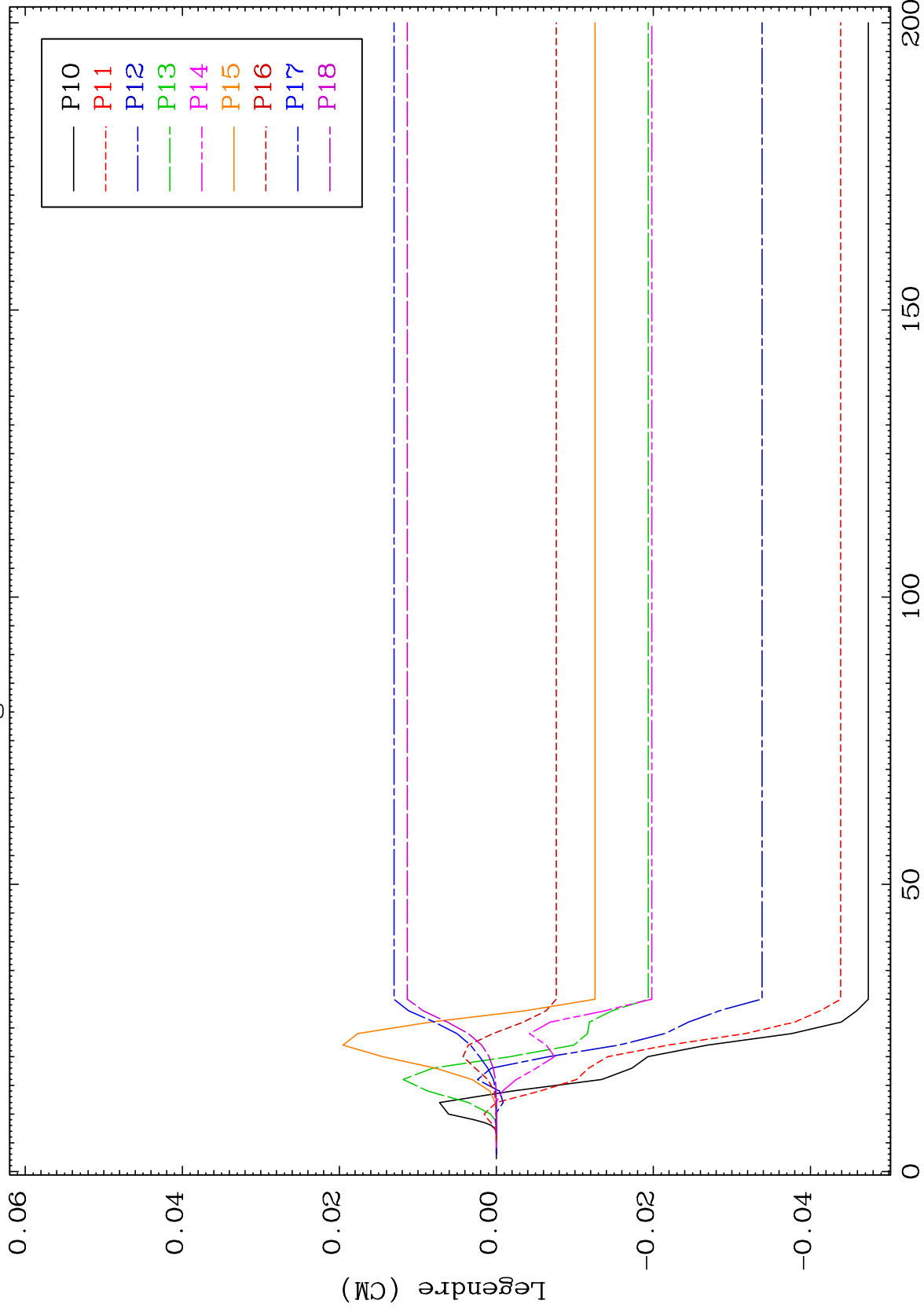
Incident Energy (MeV)

51-Sb-131

MAT 5155

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

51-Sb-131



78

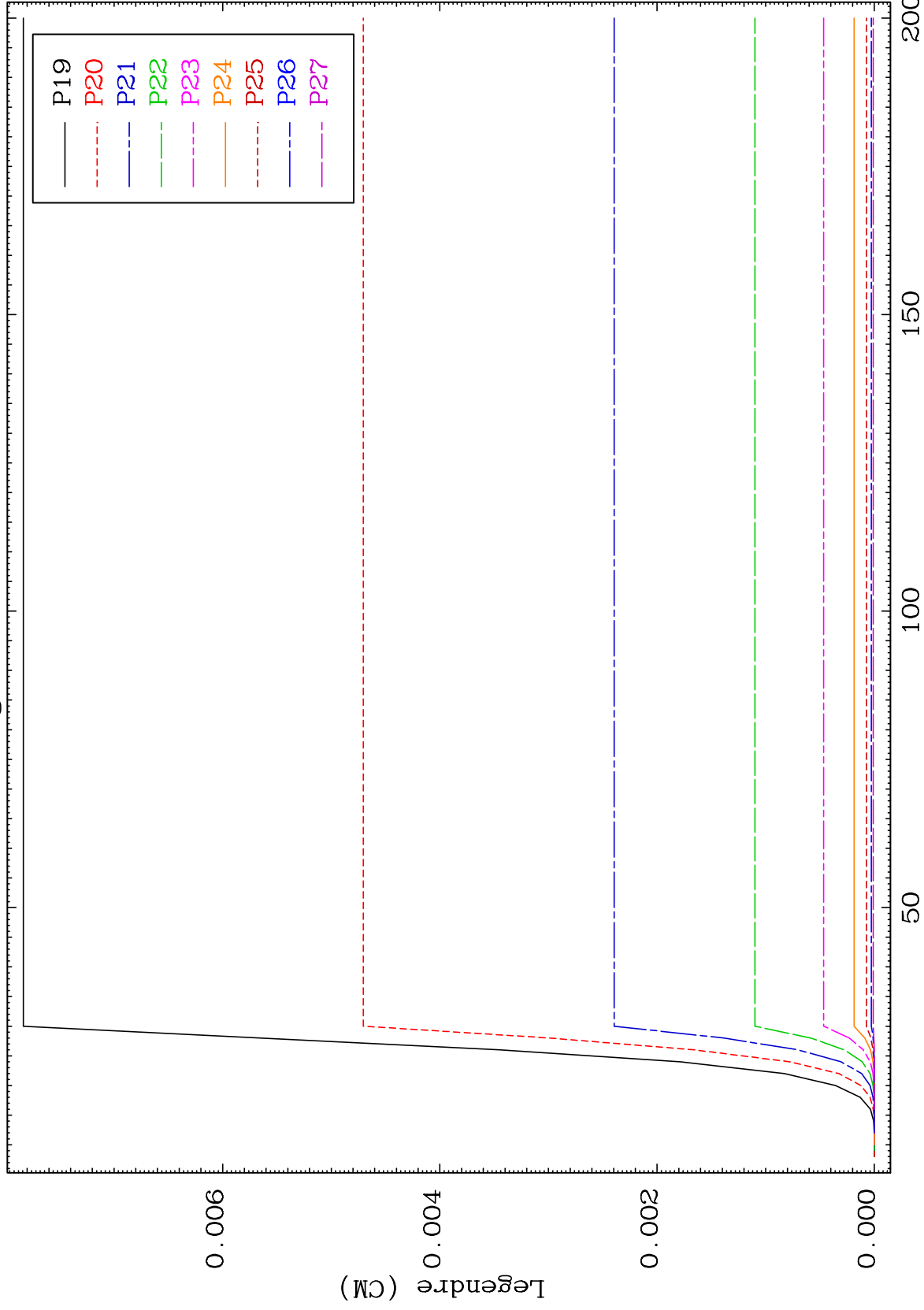
Incident Energy (MeV)

51-Sb-131

MAT 5155

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

51-Sb-131



79

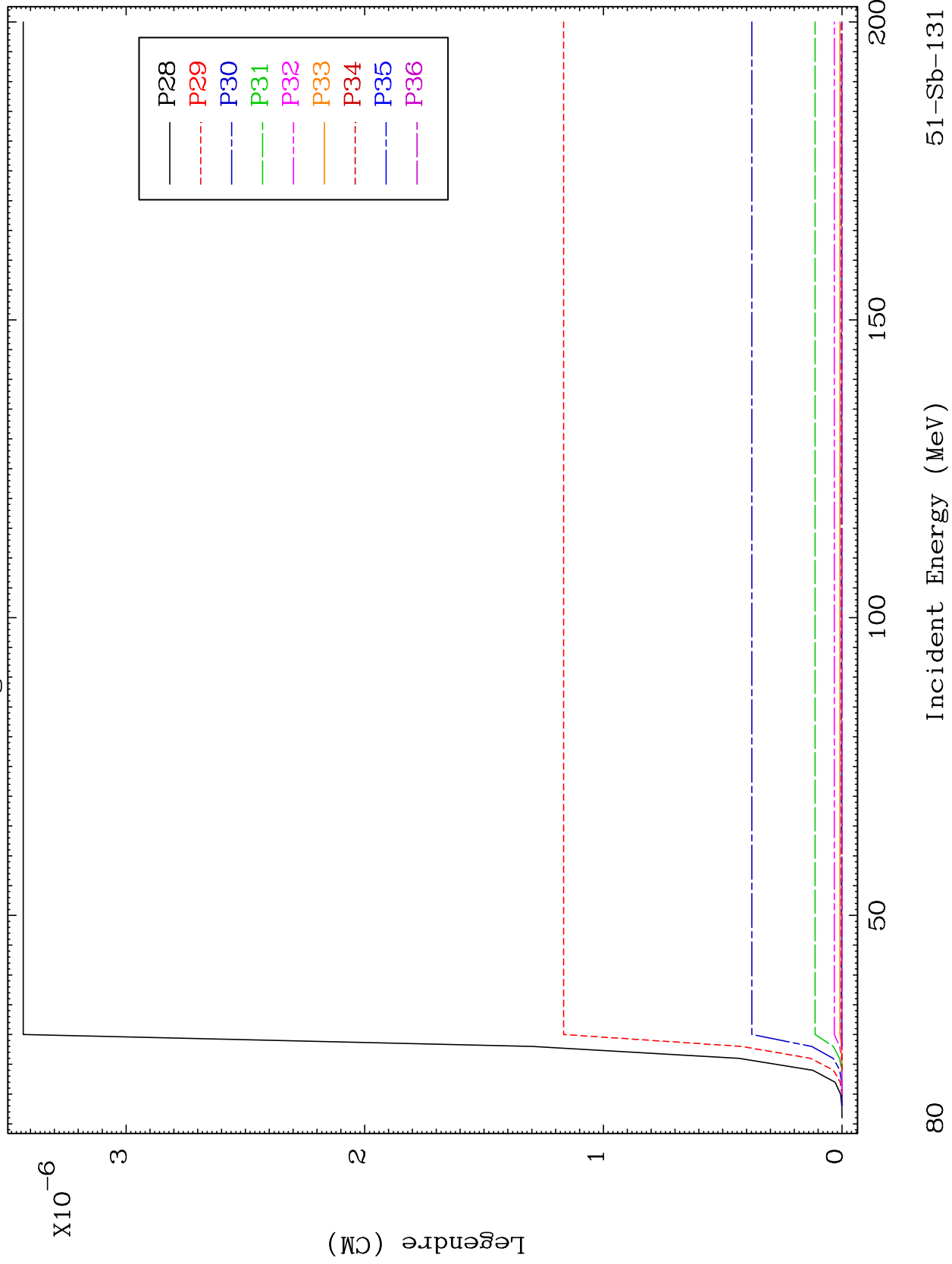
Incident Energy (MeV)

51-Sb-131

MAT 5155

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

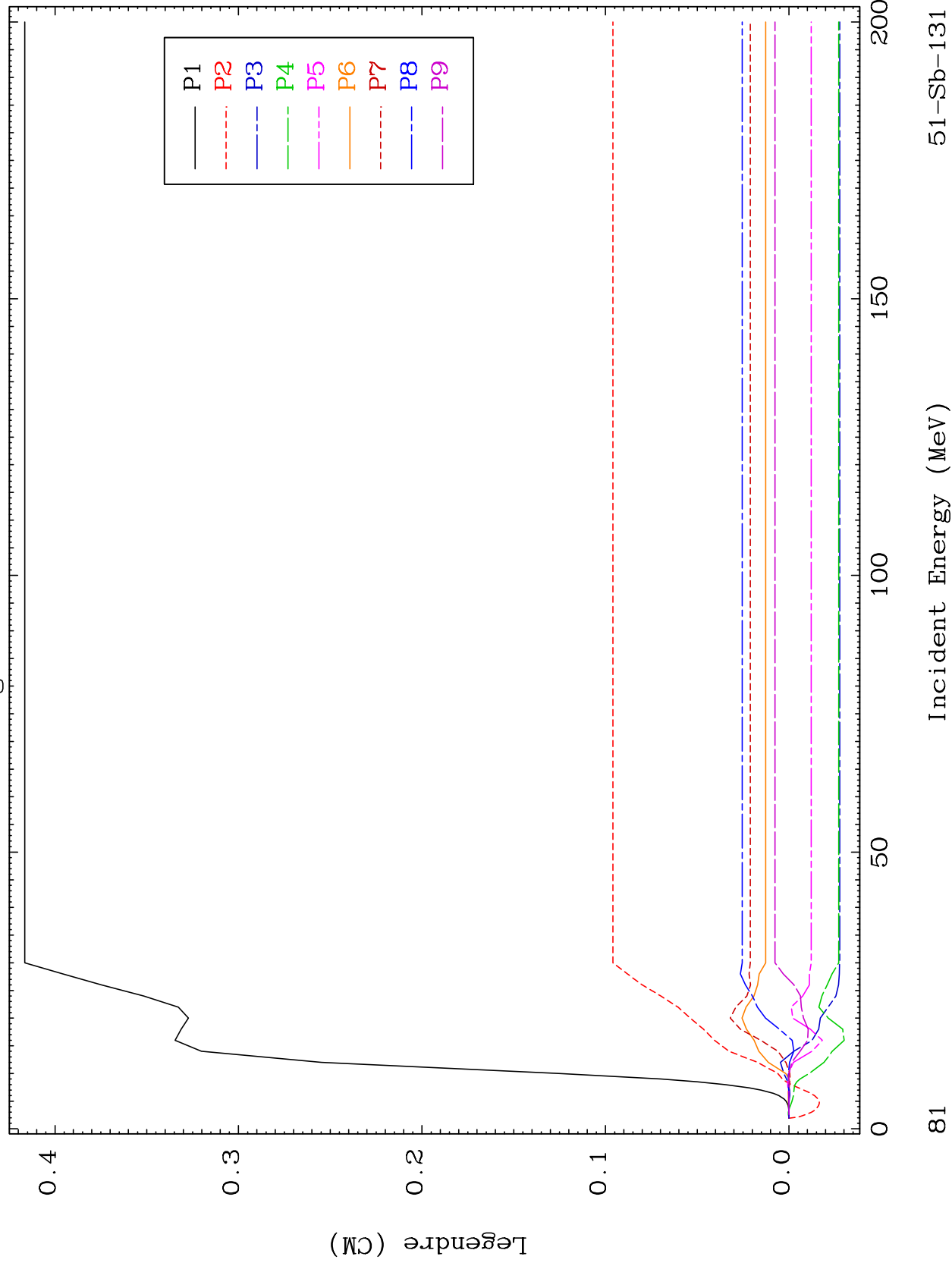
51-Sb-131



MAT 5155

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

51-Sb-131



81

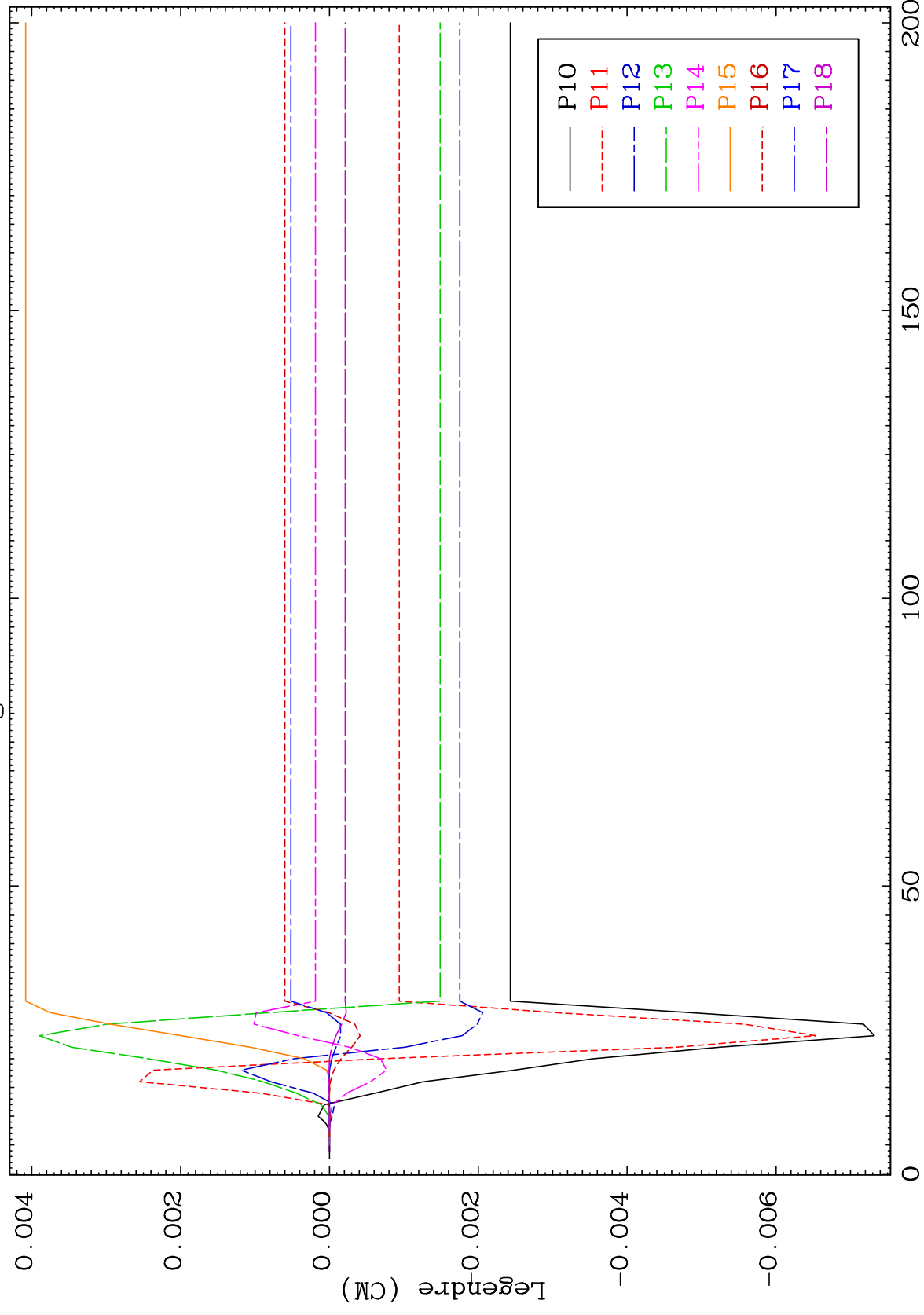
Incident Energy (MeV)

51-Sb-131

MAT 5155

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

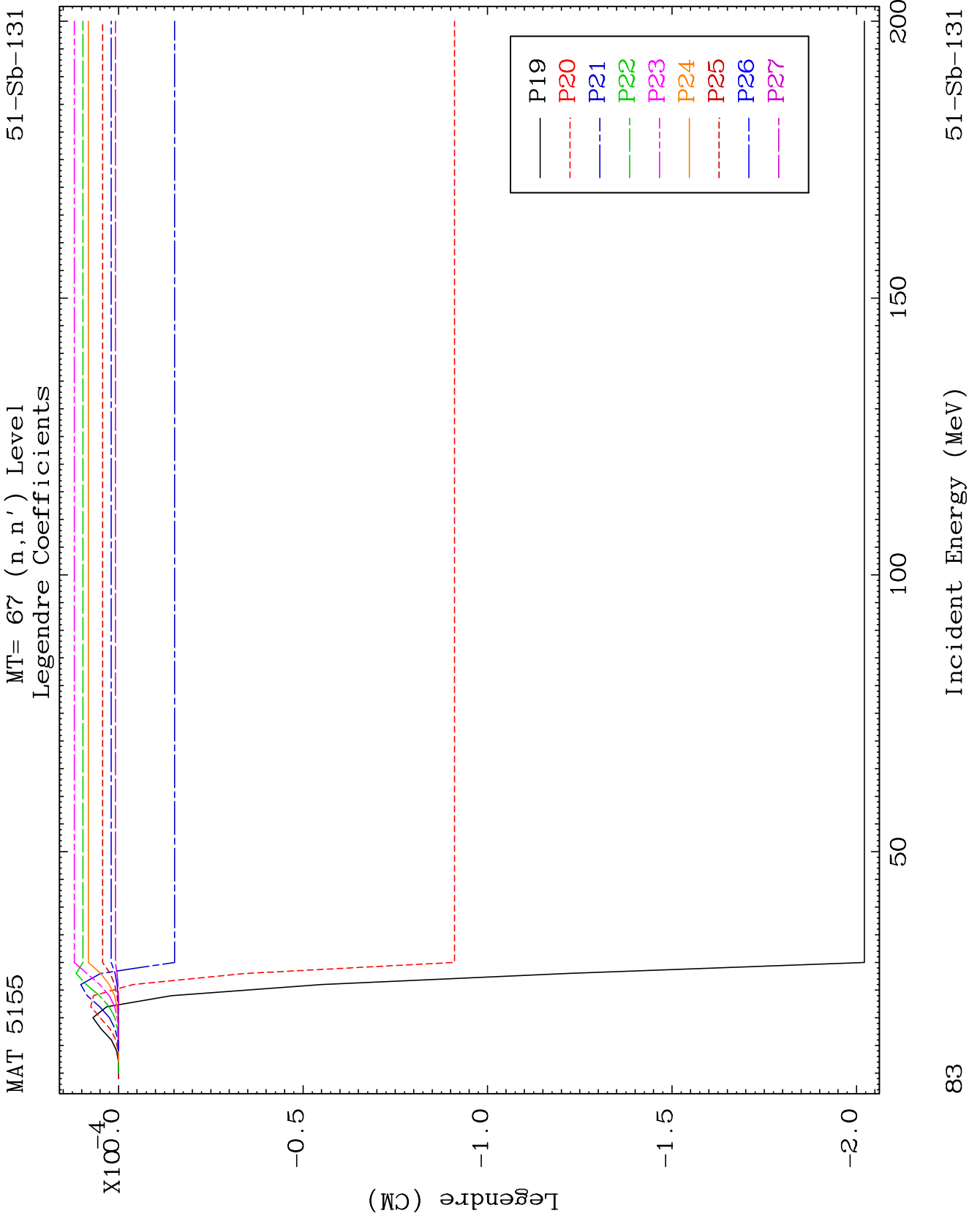
51-Sb-131



82

Incident Energy (MeV)

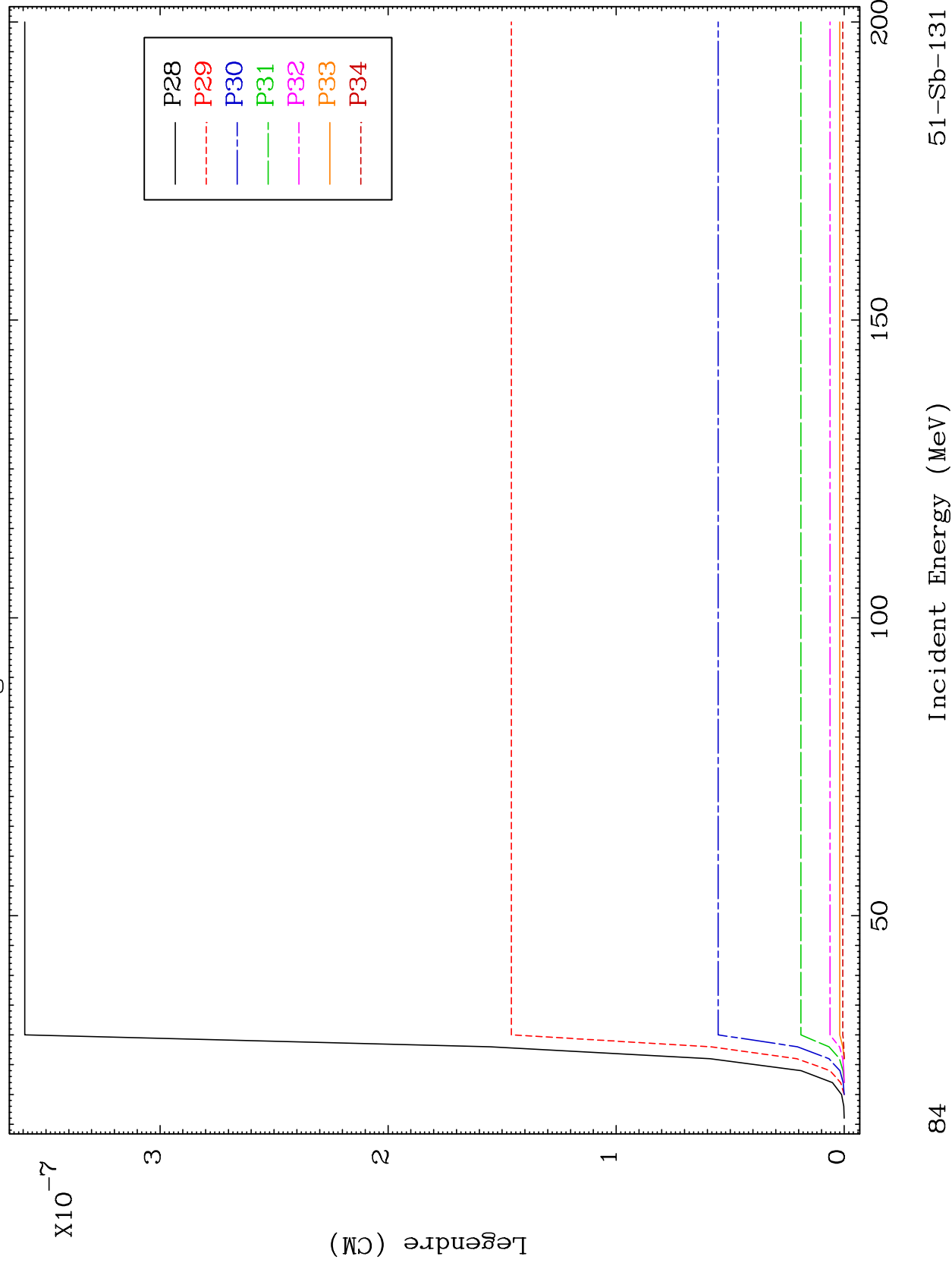
51-Sb-131



MAT 5155

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

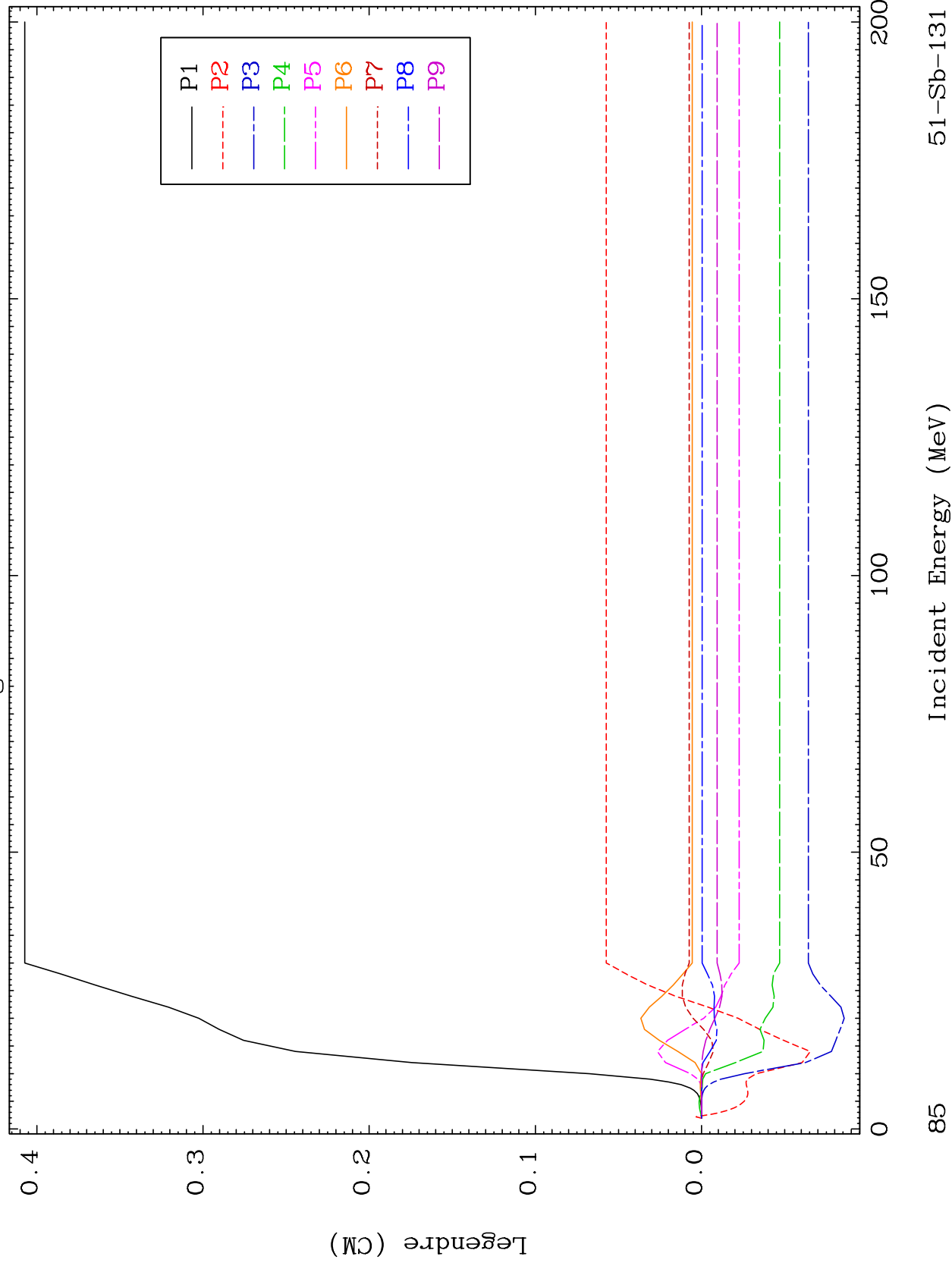
51-Sb-131



MAT 5155

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

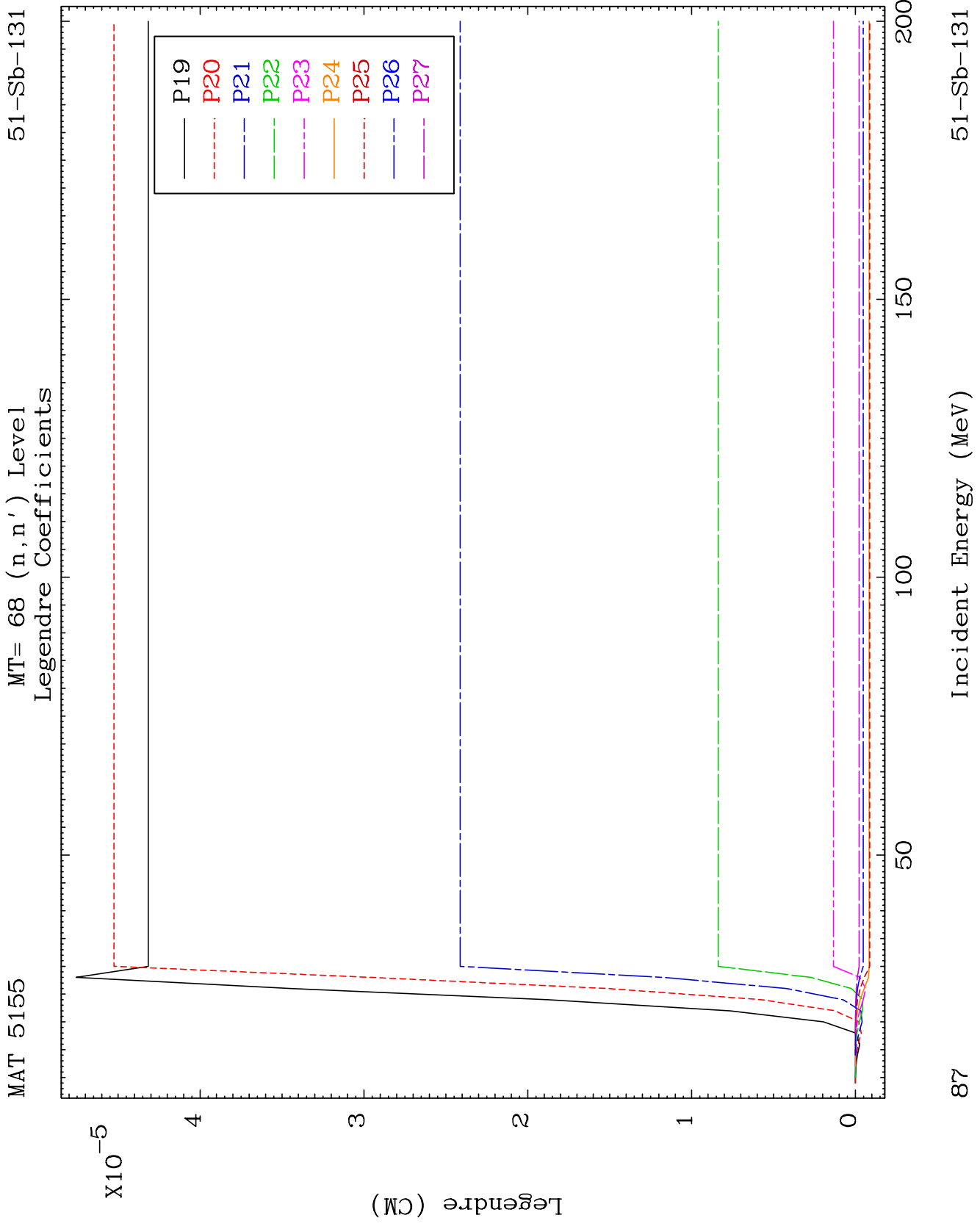
51-Sb-131

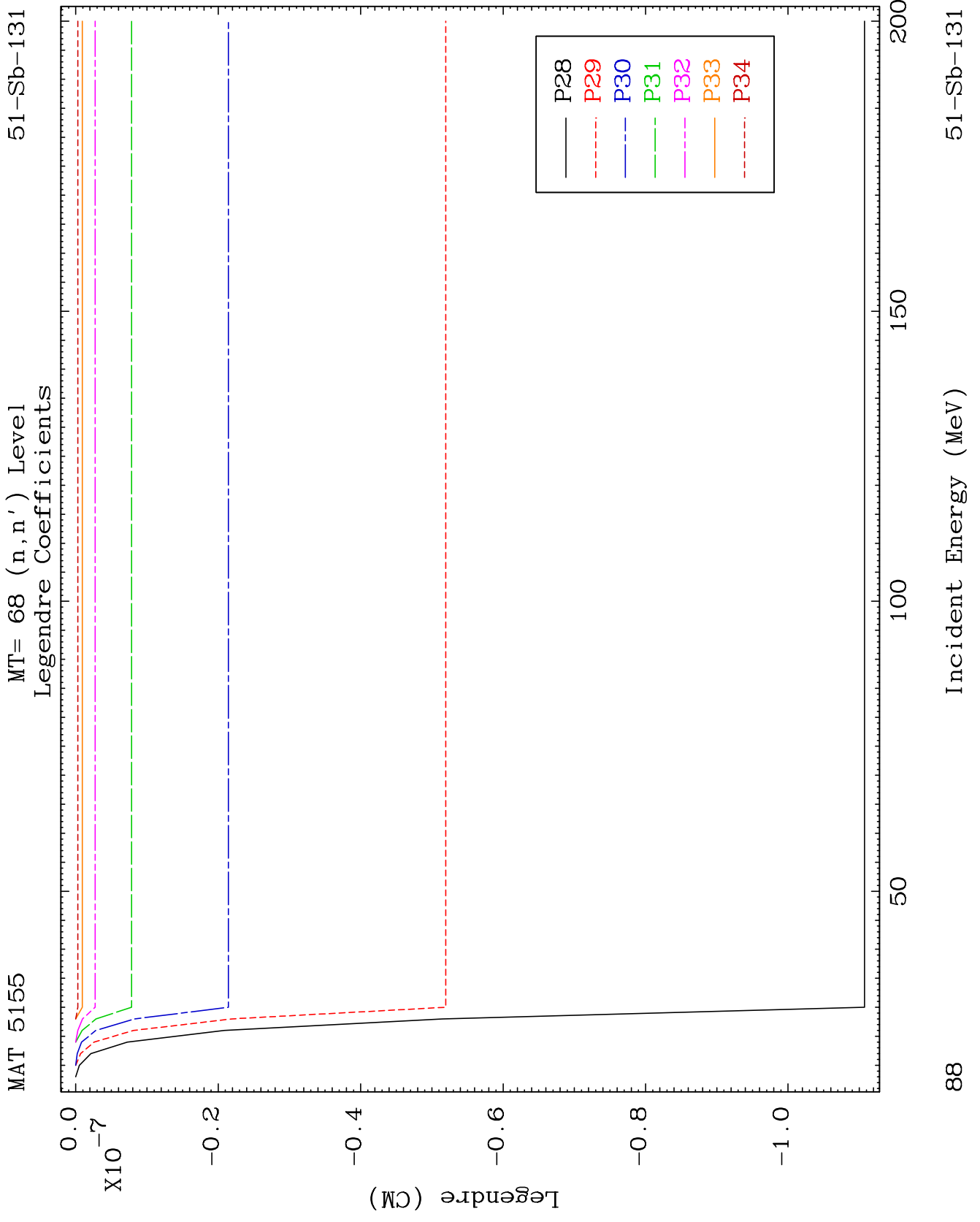


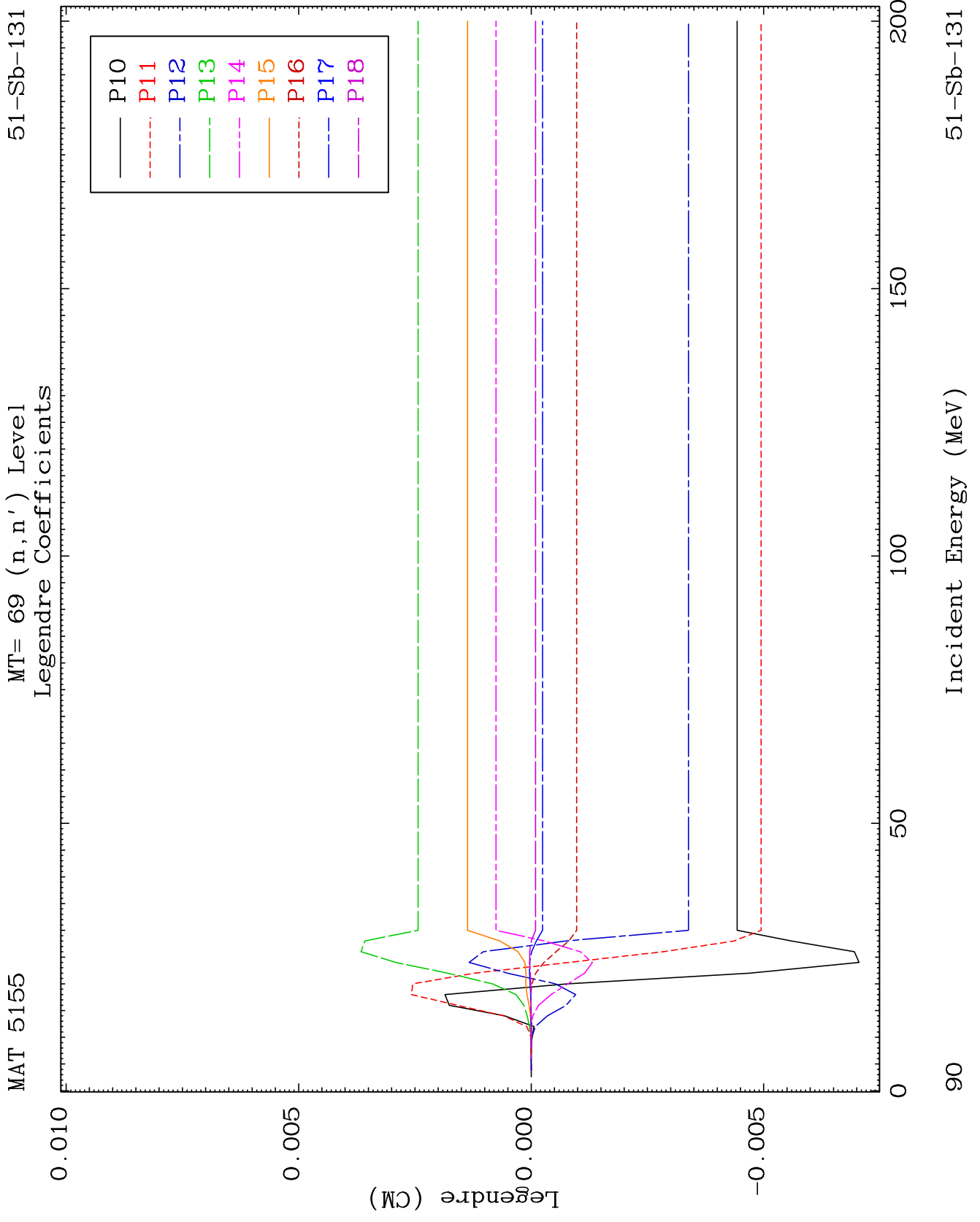
51-Sb-131

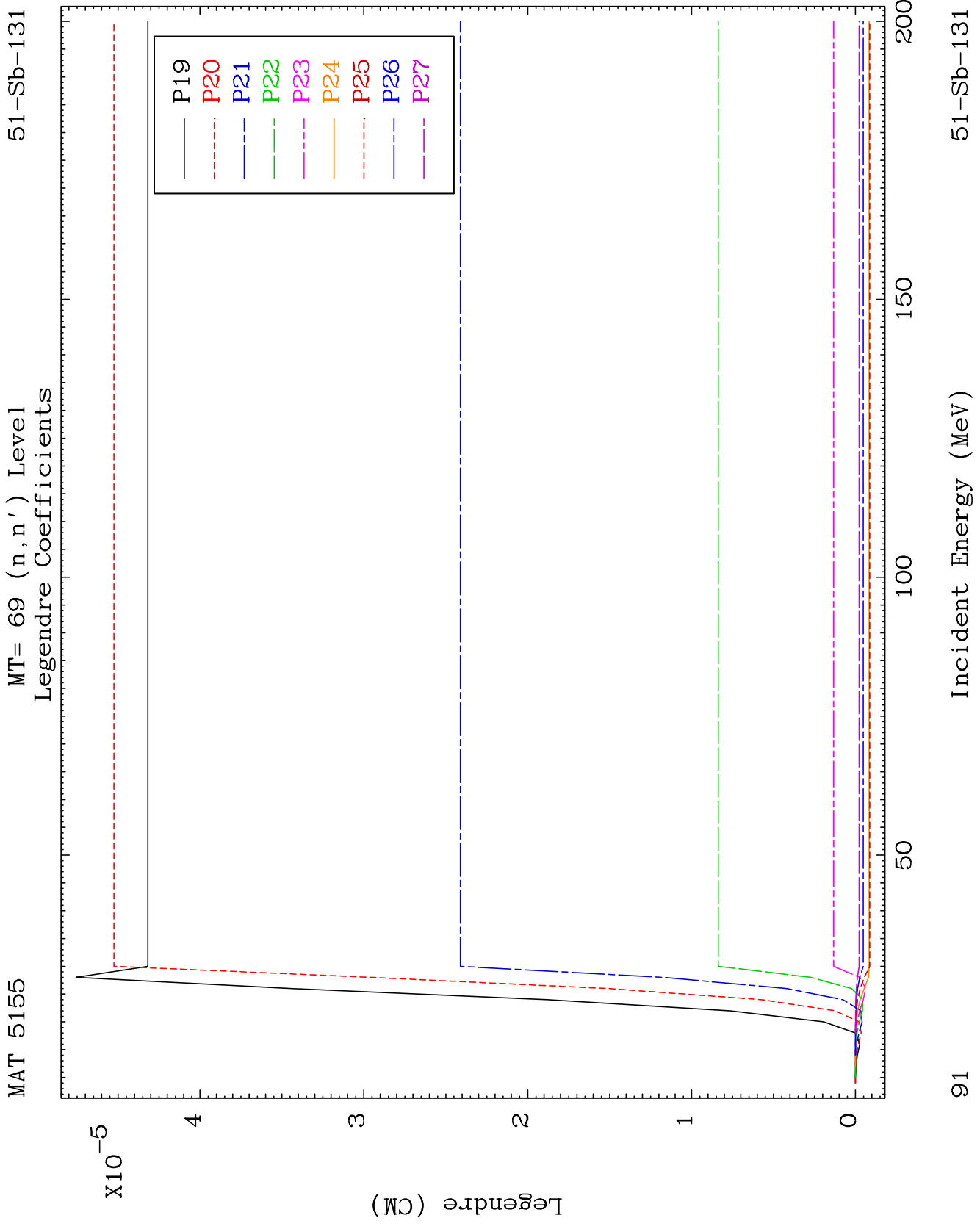
Incident Energy (MeV)

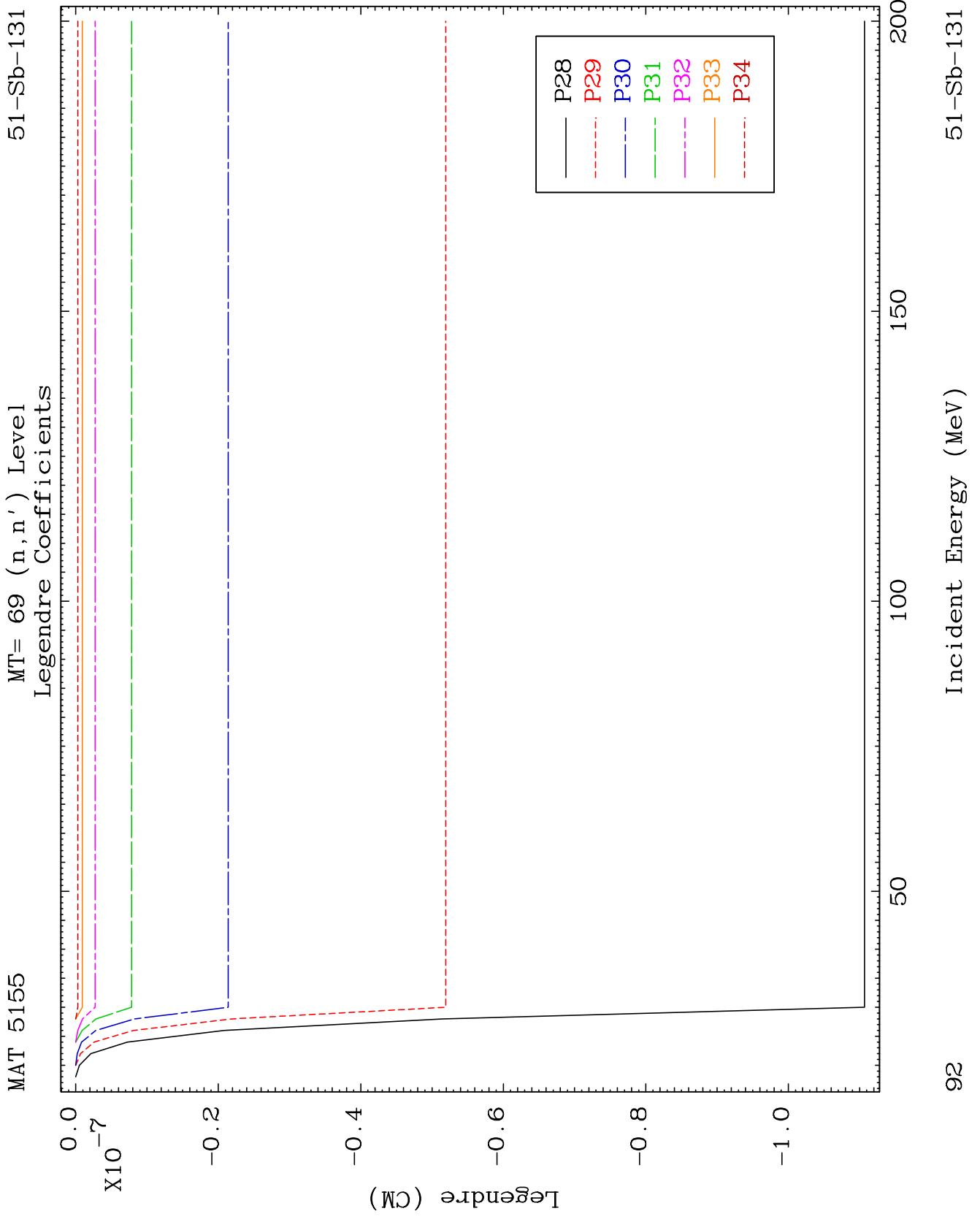
85







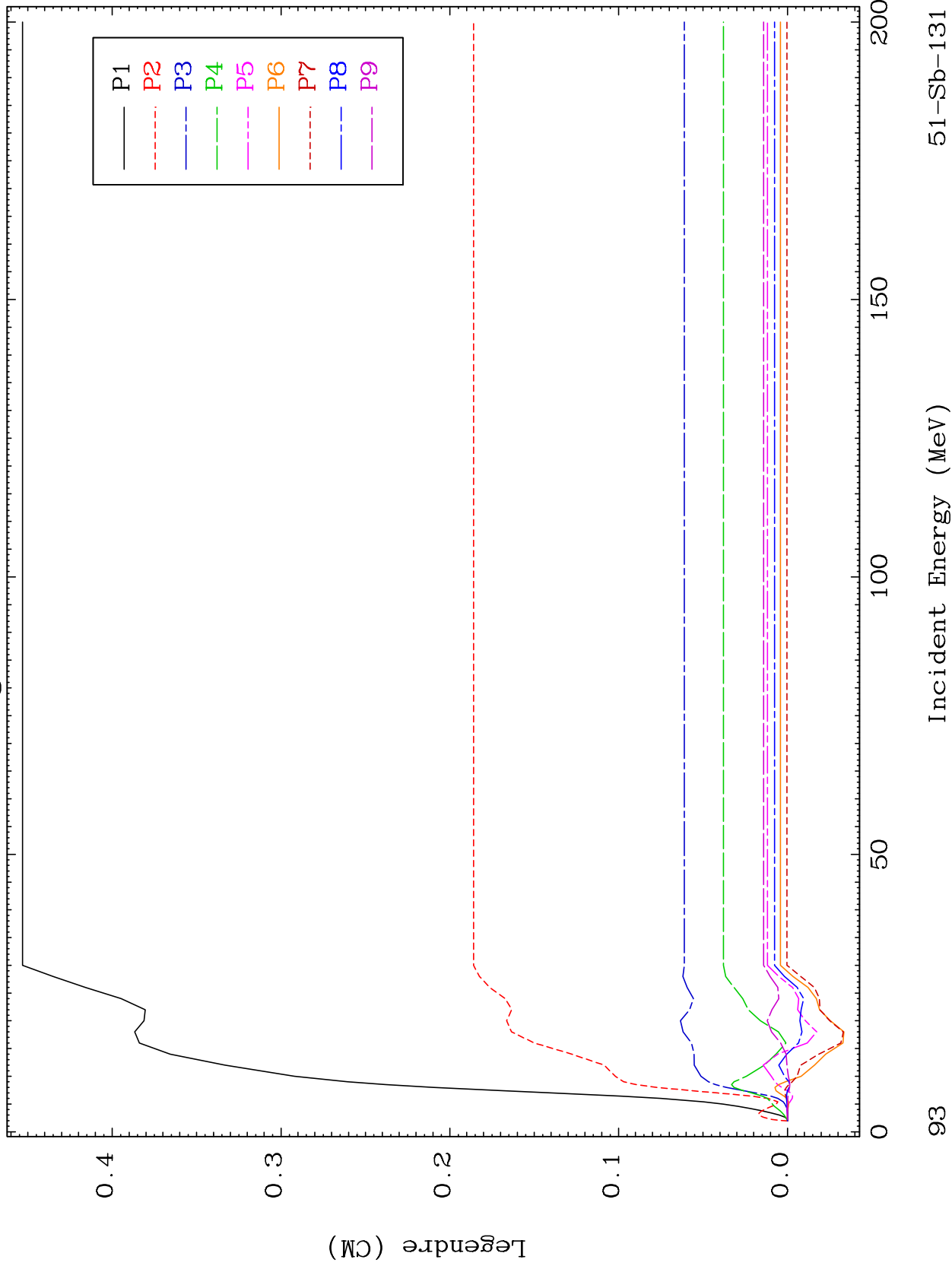




MAT 5155

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

51-Sb-131



51-Sb-131

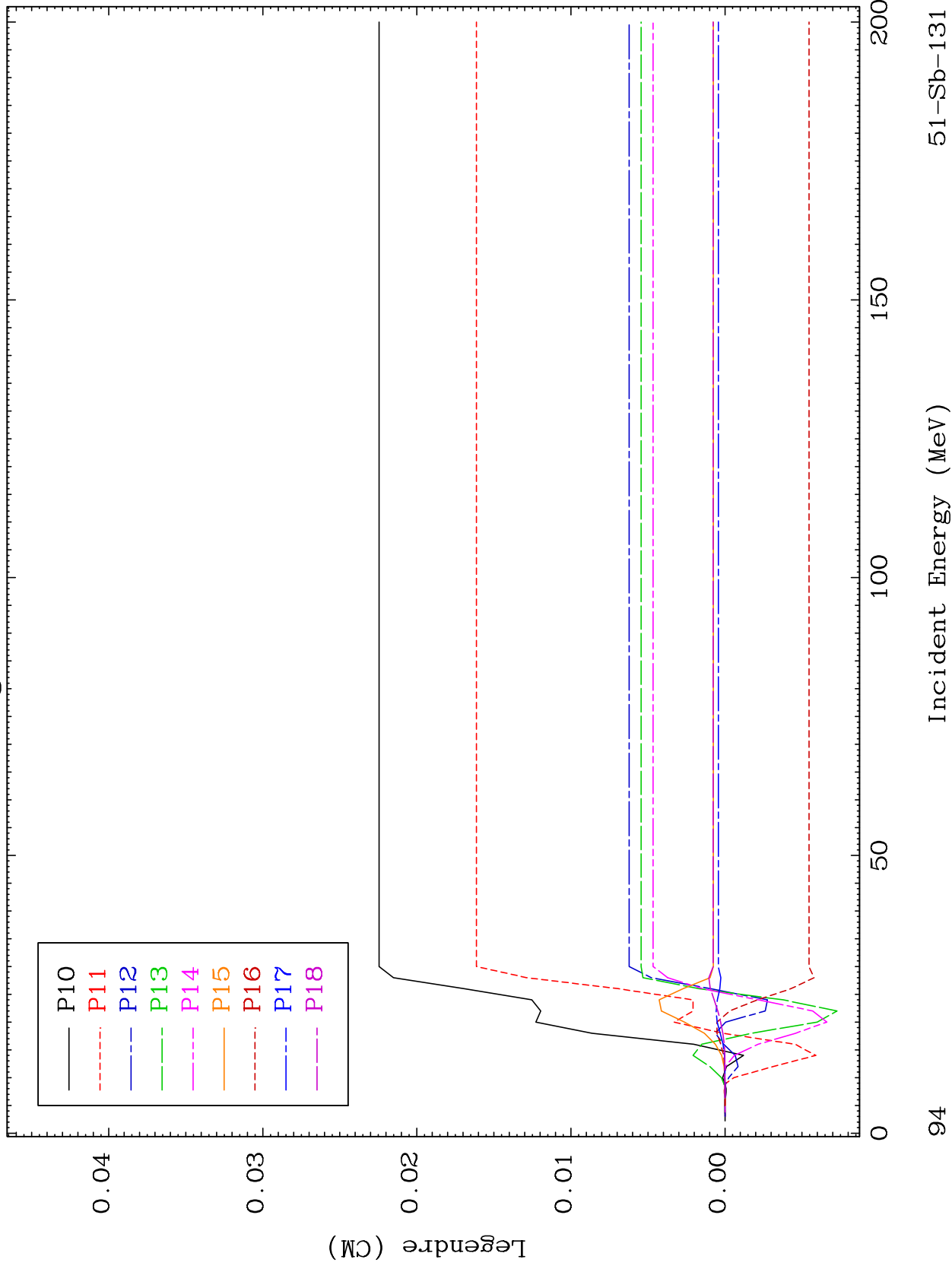
Incident Energy (MeV)

93

MAT 5155

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

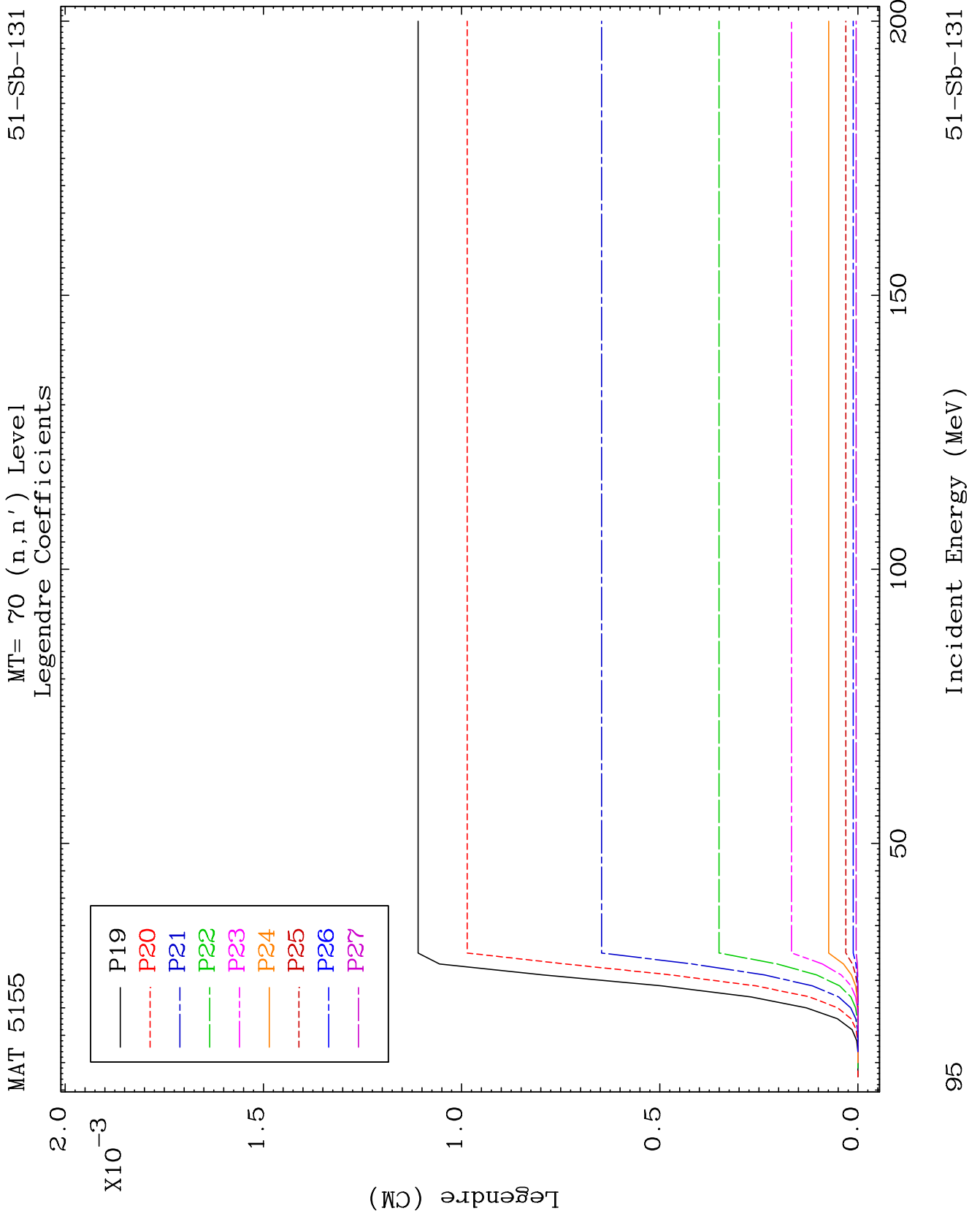
51-Sb-131



94

Incident Energy (MeV)

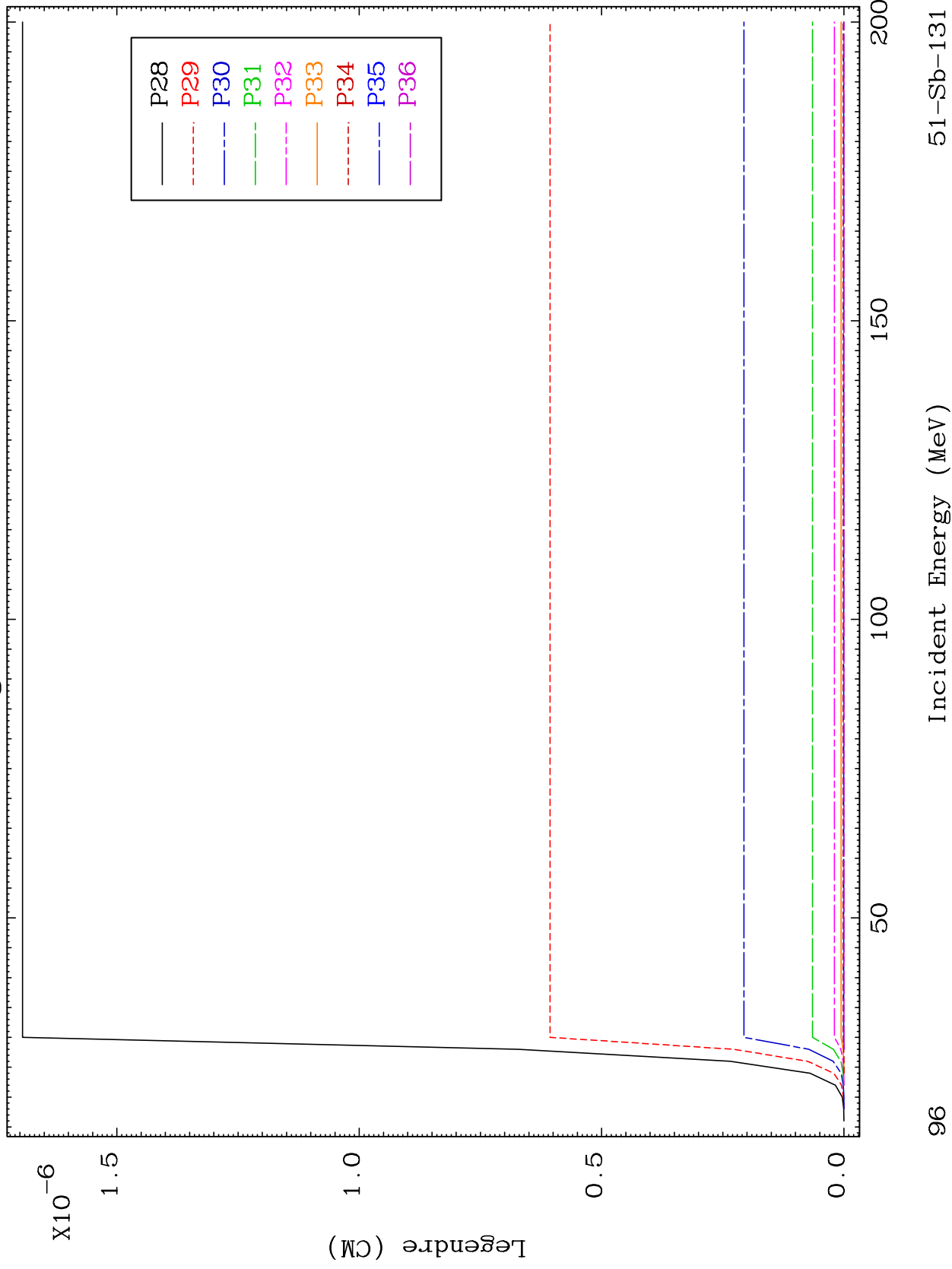
51-Sb-131



MAT 5155

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

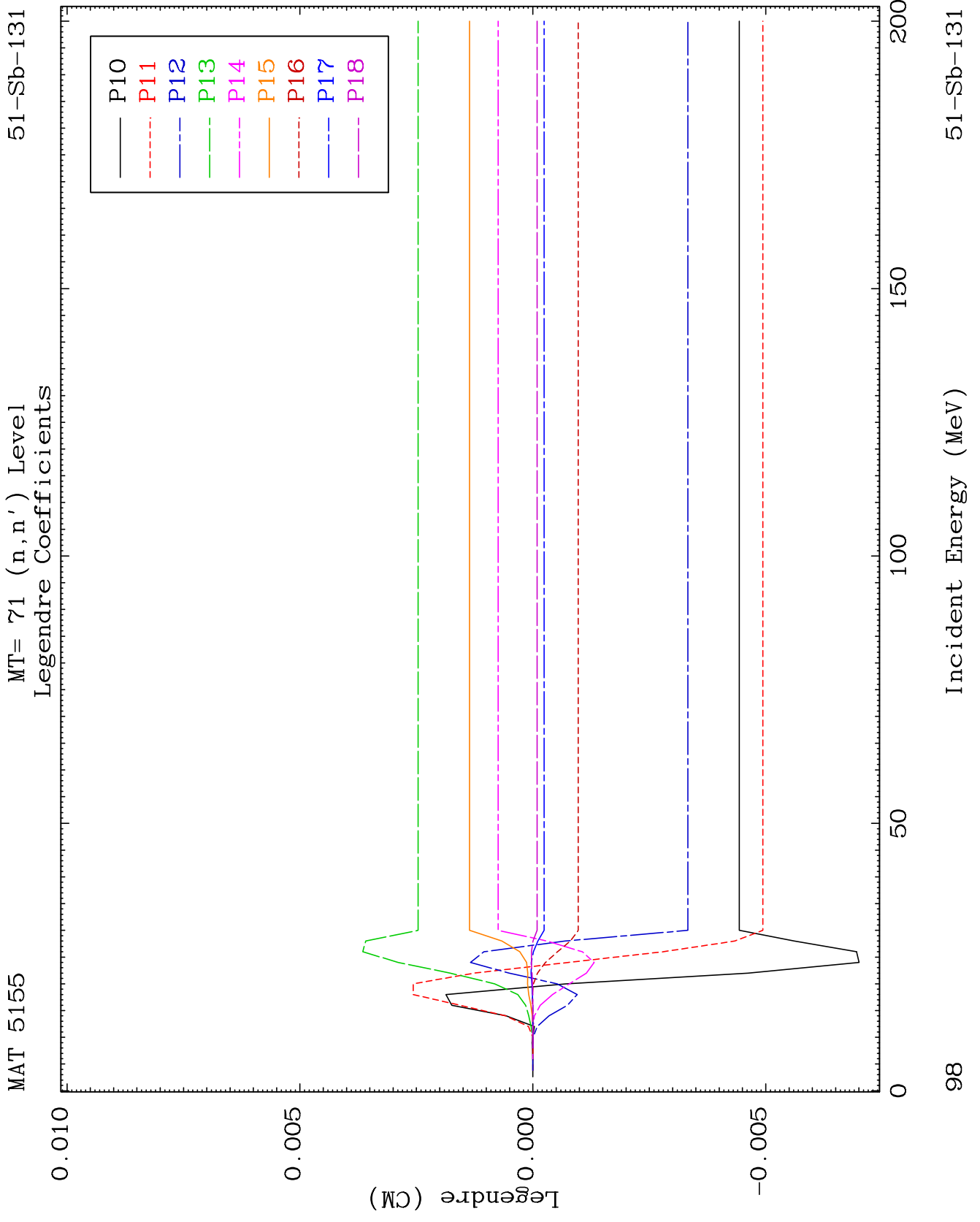
51-Sb-131

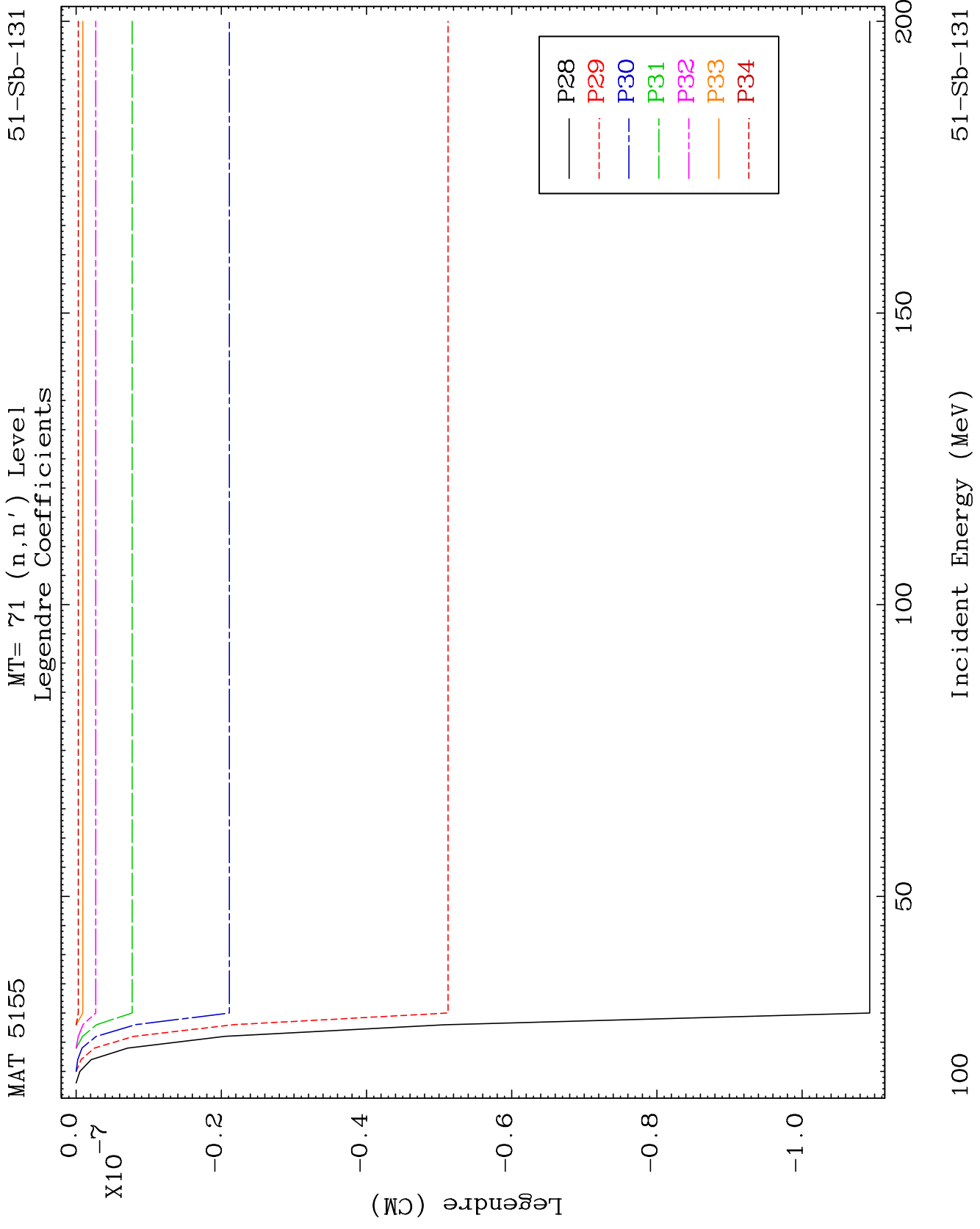


96

Incident Energy (MeV)

51-Sb-131

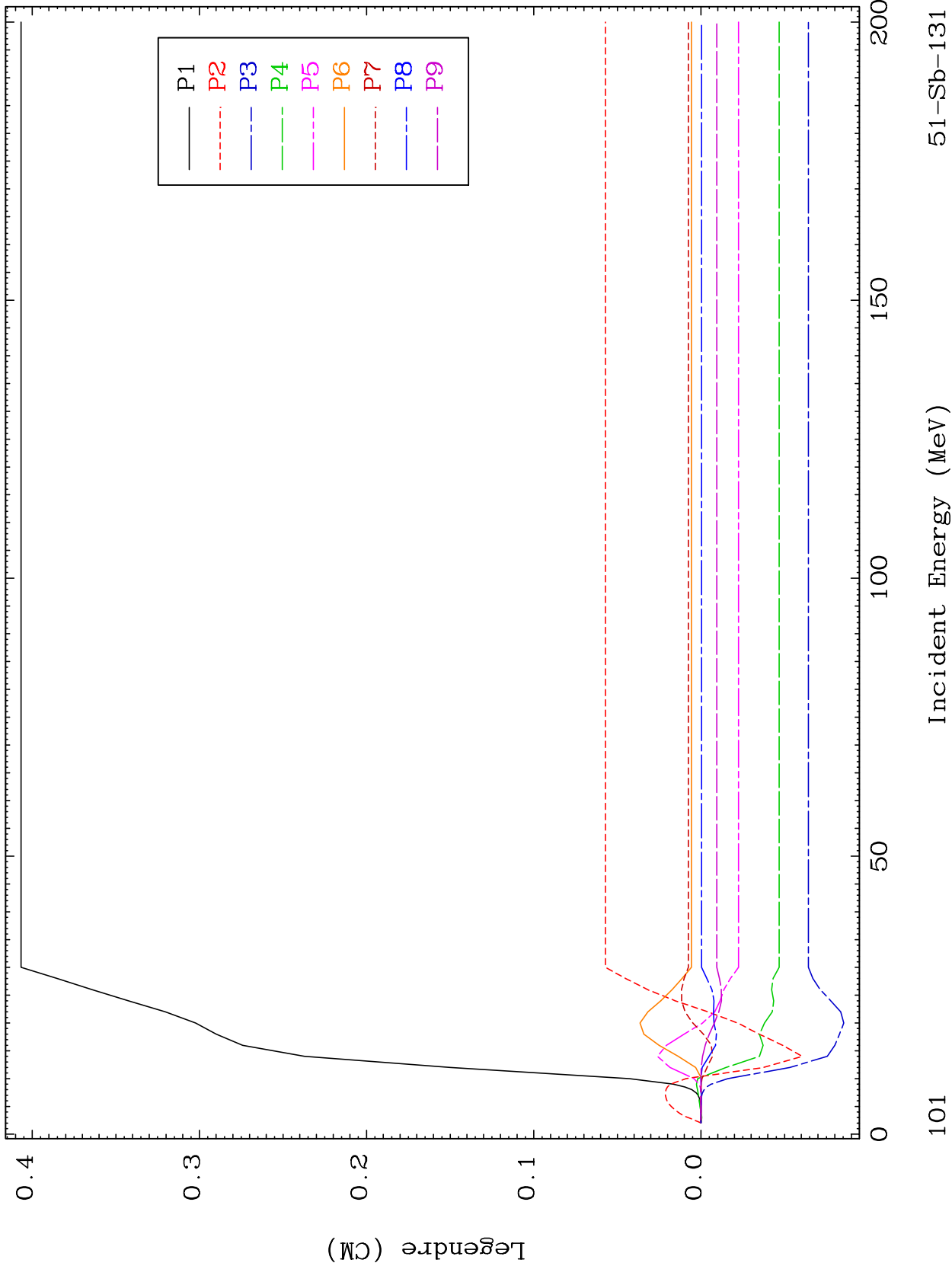




MAT 5155

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

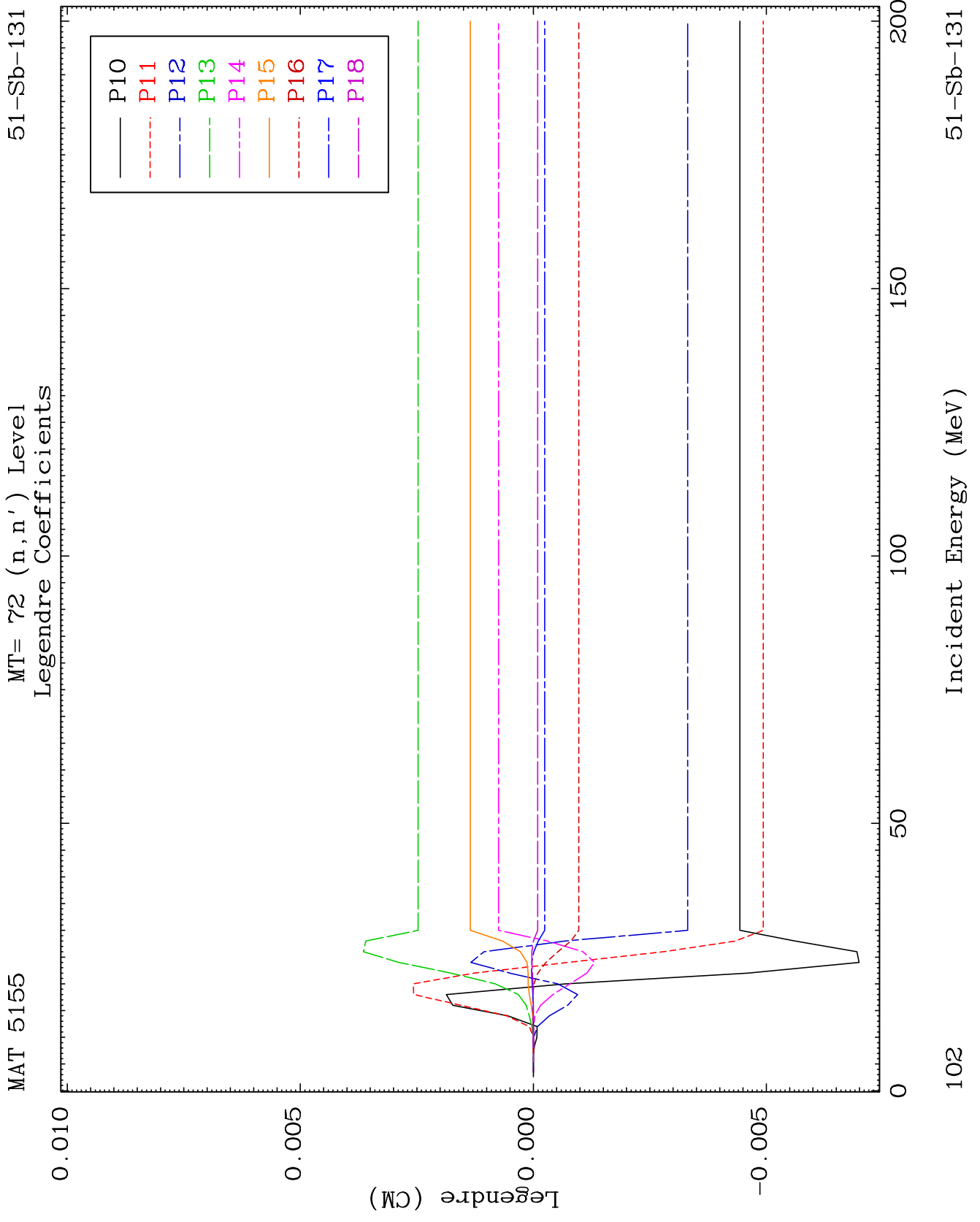
51-Sb-131



51-Sb-131

Incident Energy (MeV)

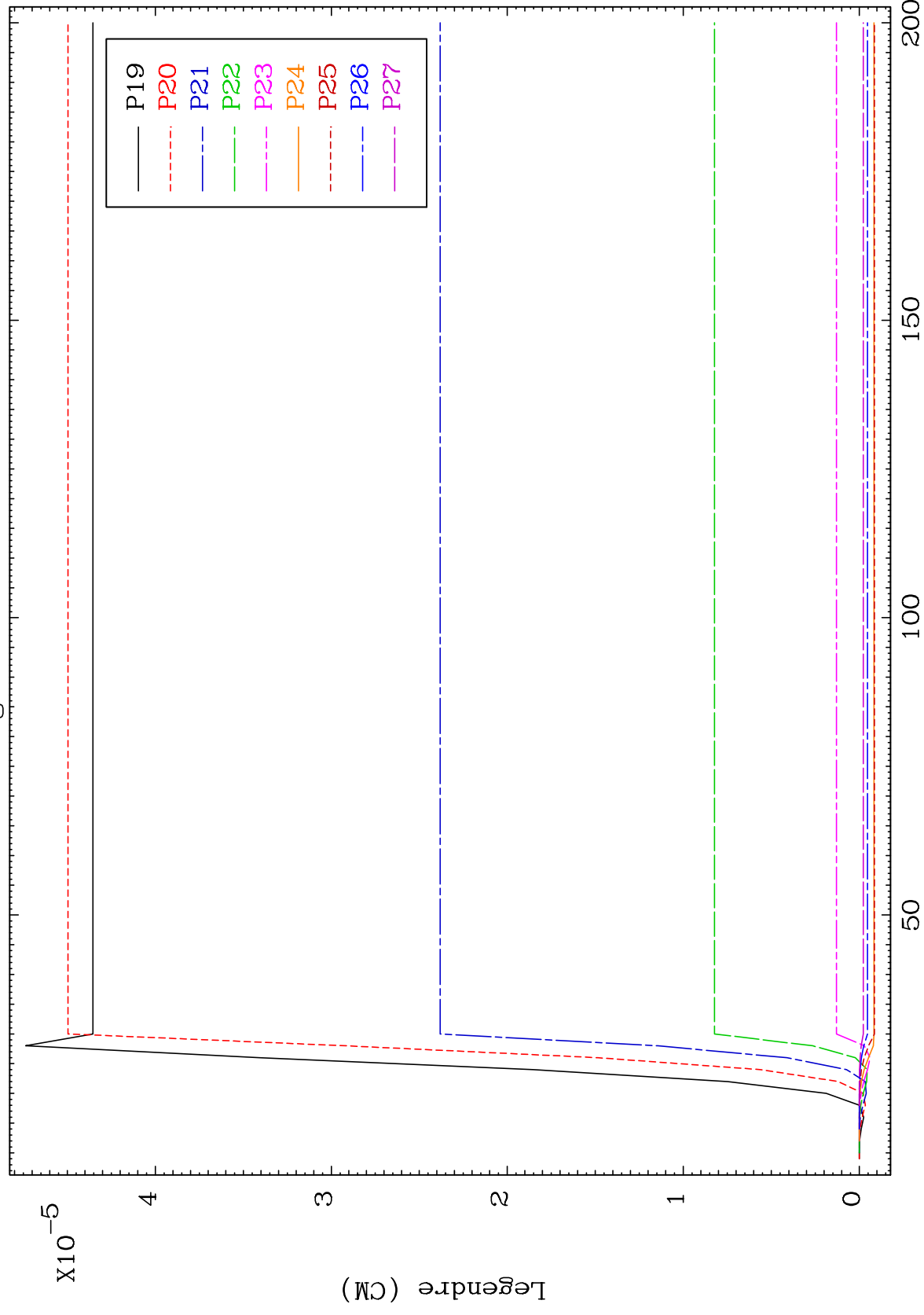
101



MAT 5155

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

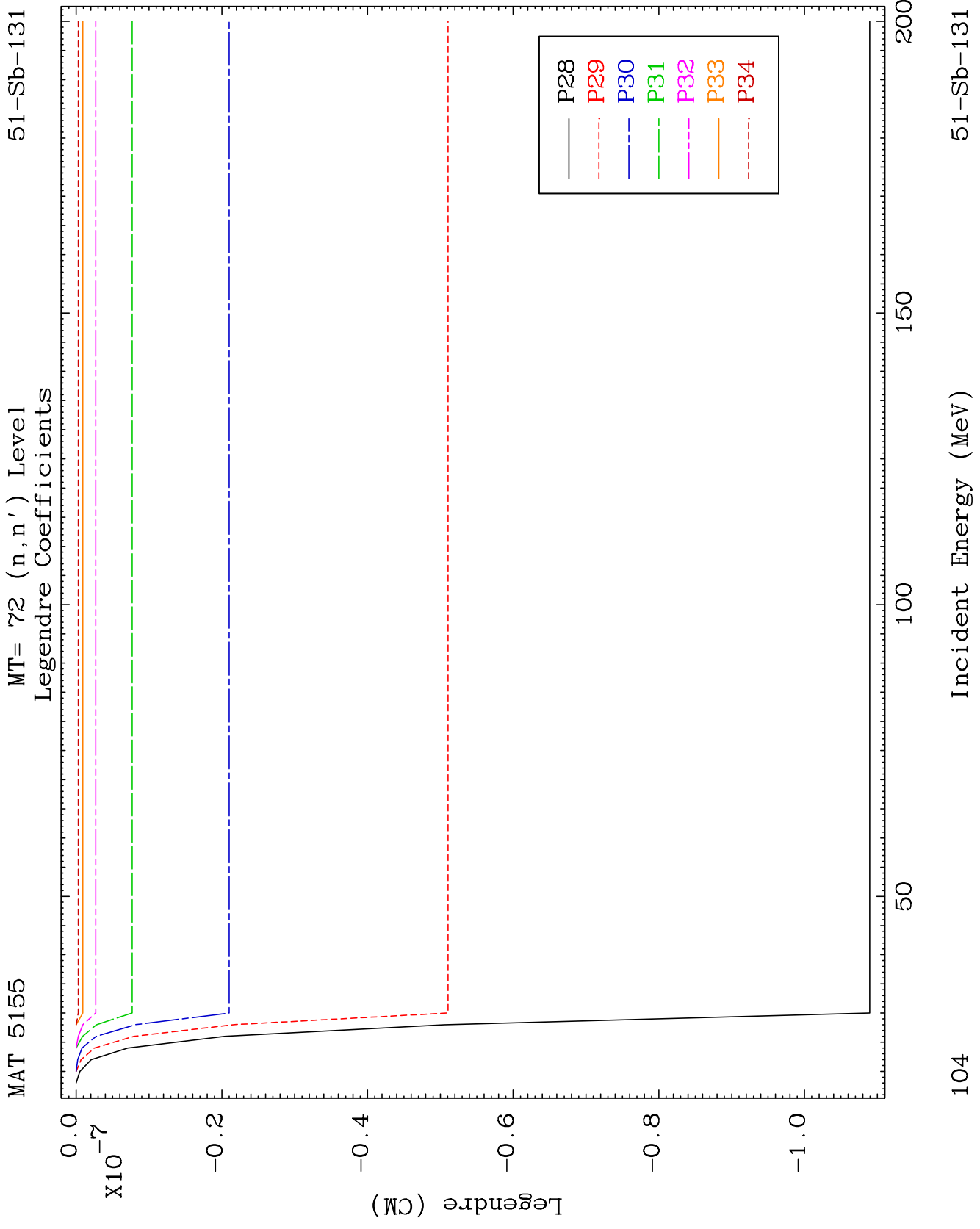
51-Sb-131



103

Incident Energy (MeV)

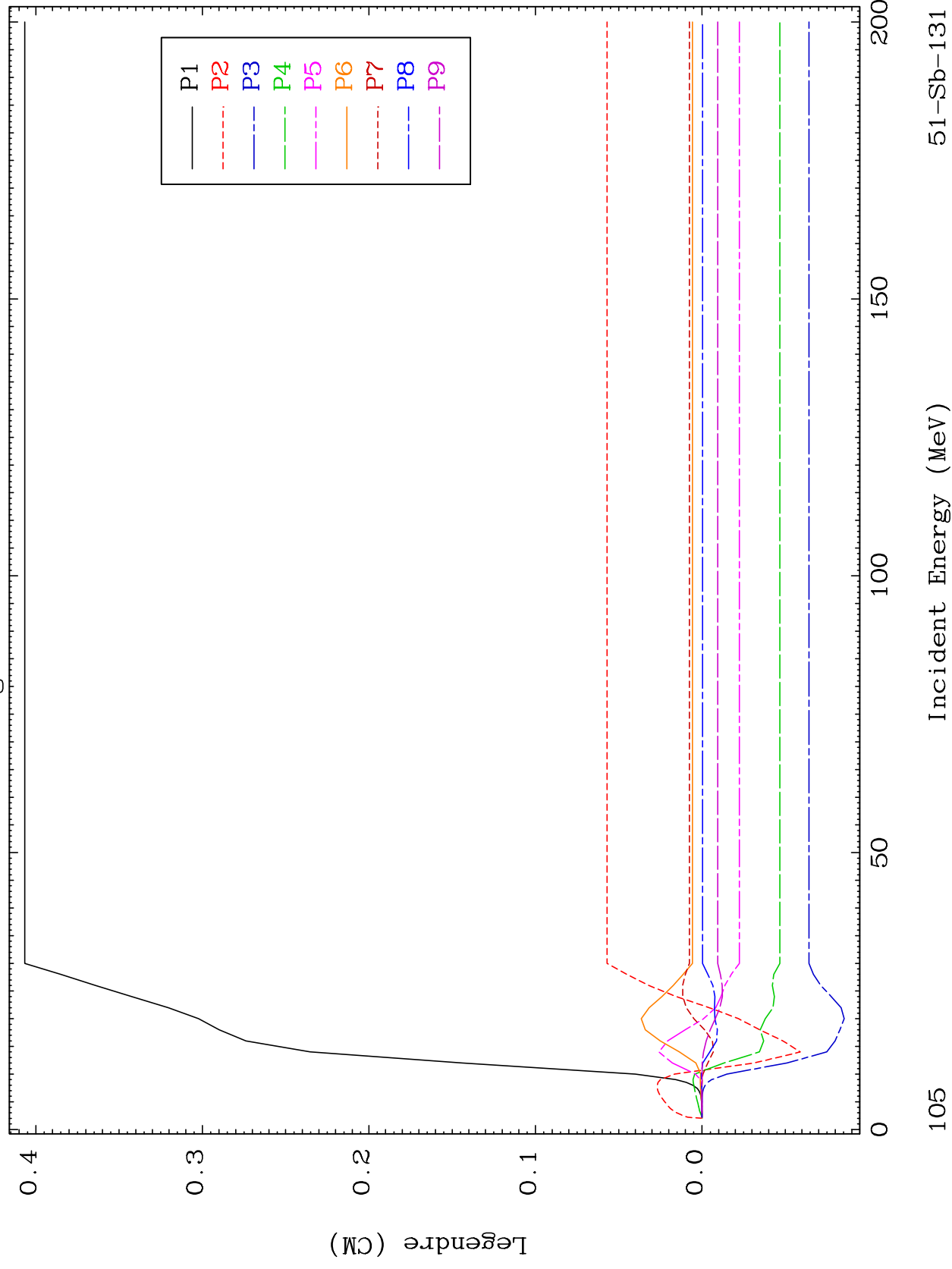
51-Sb-131



MAT 5155

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

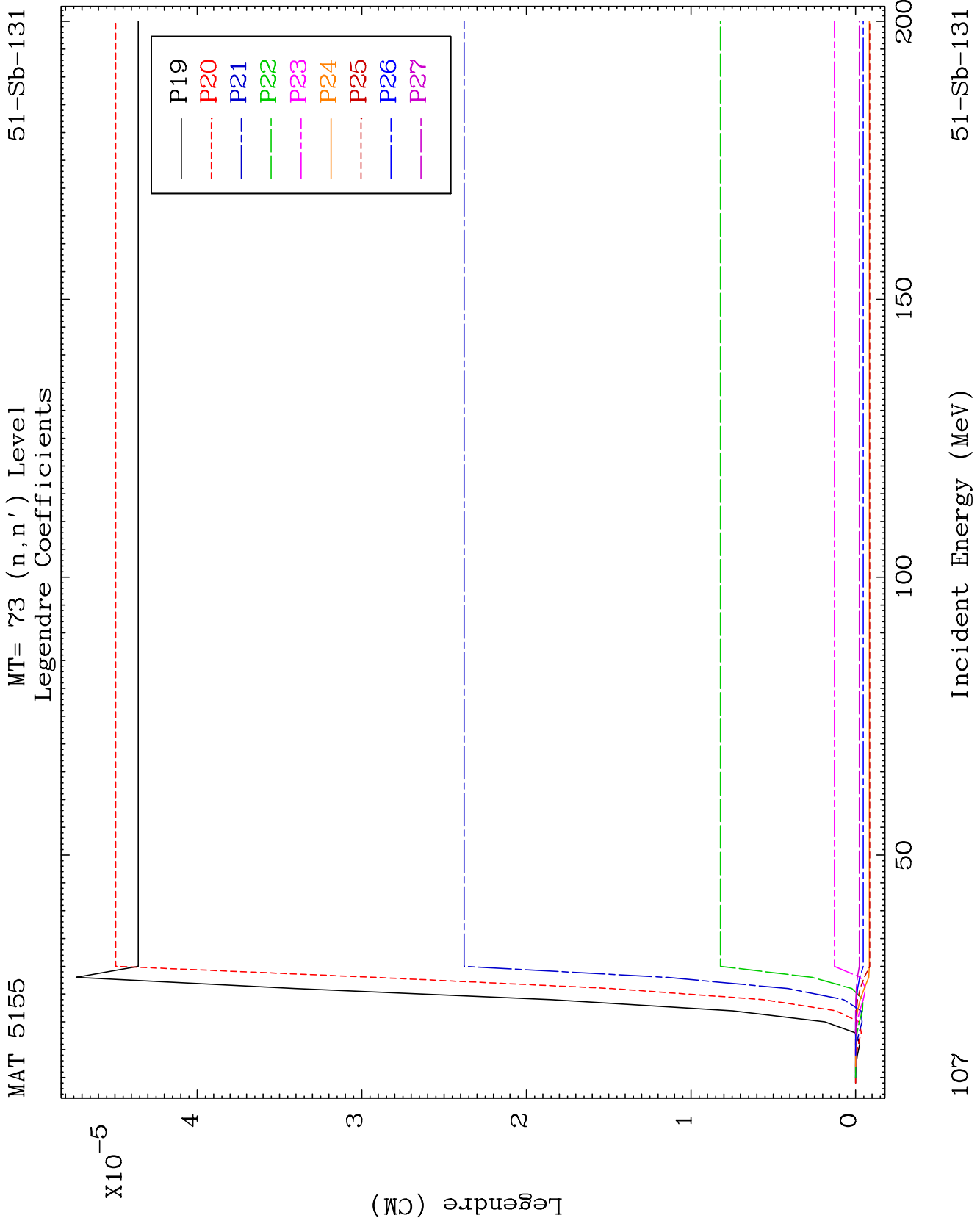
51-Sb-131

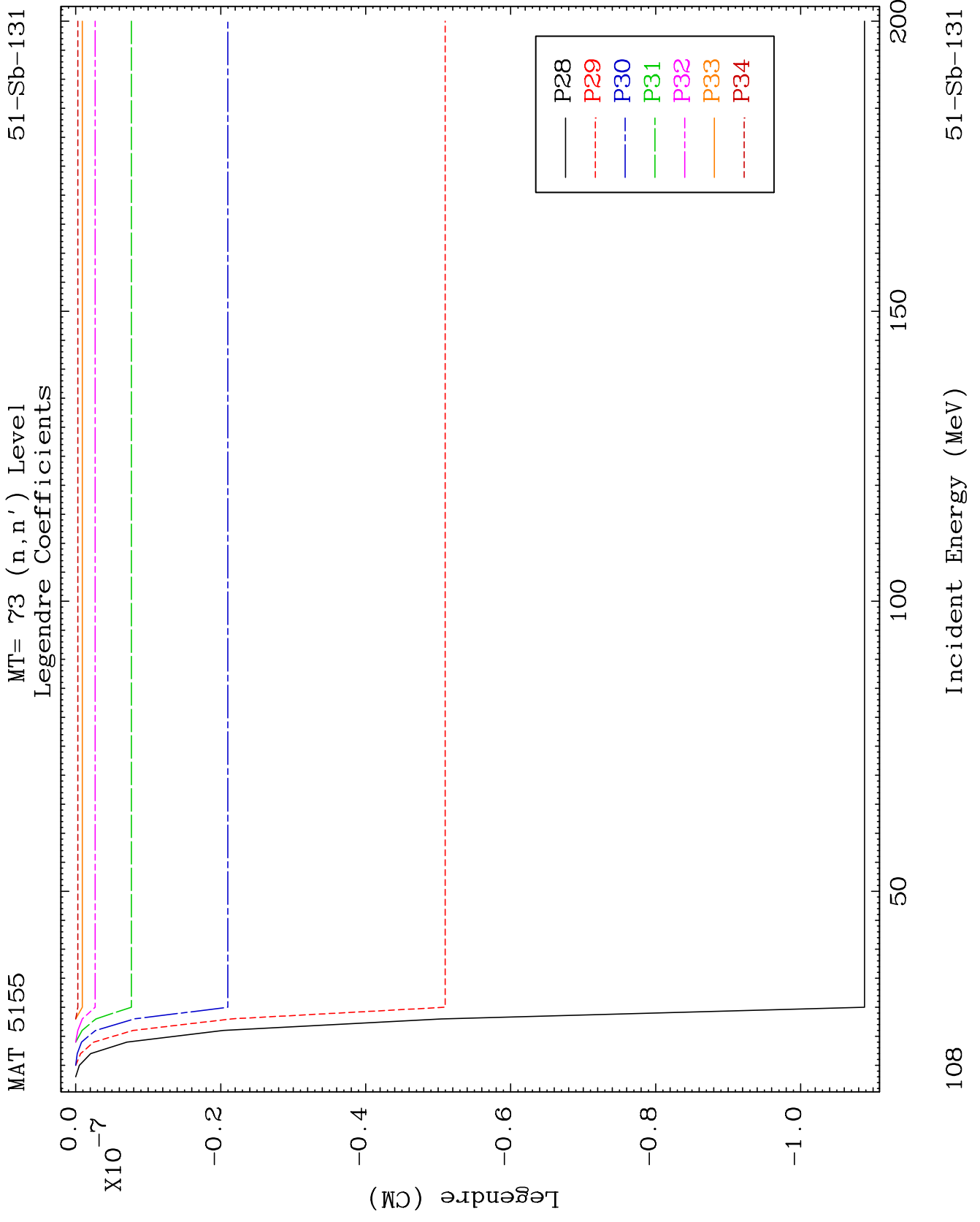


51-Sb-131

Incident Energy (MeV)

105

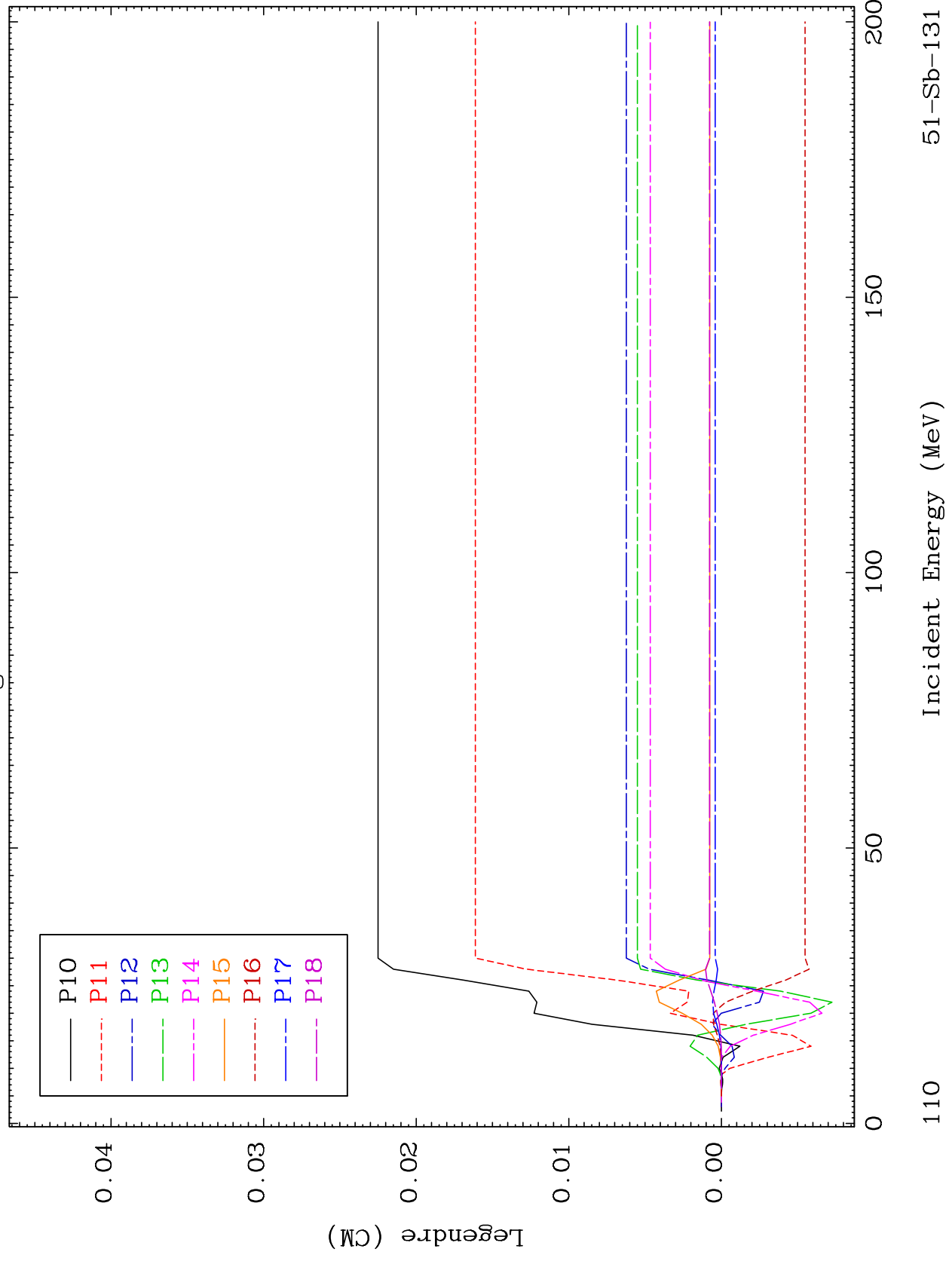




MAT 5155

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

51-Sb-131



51-Sb-131

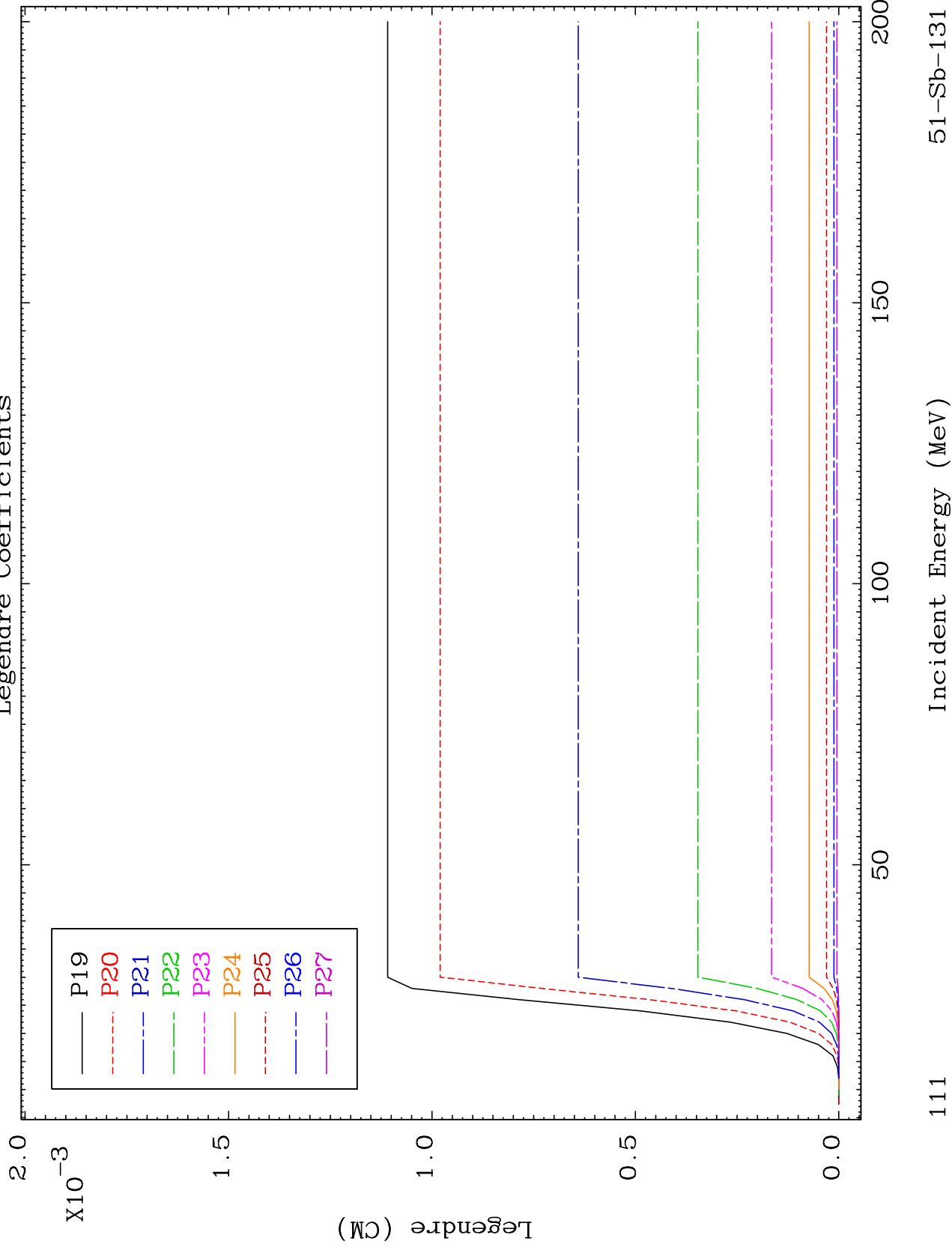
Incident Energy (MeV)

110

MAT 5155

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

51-Sb-131

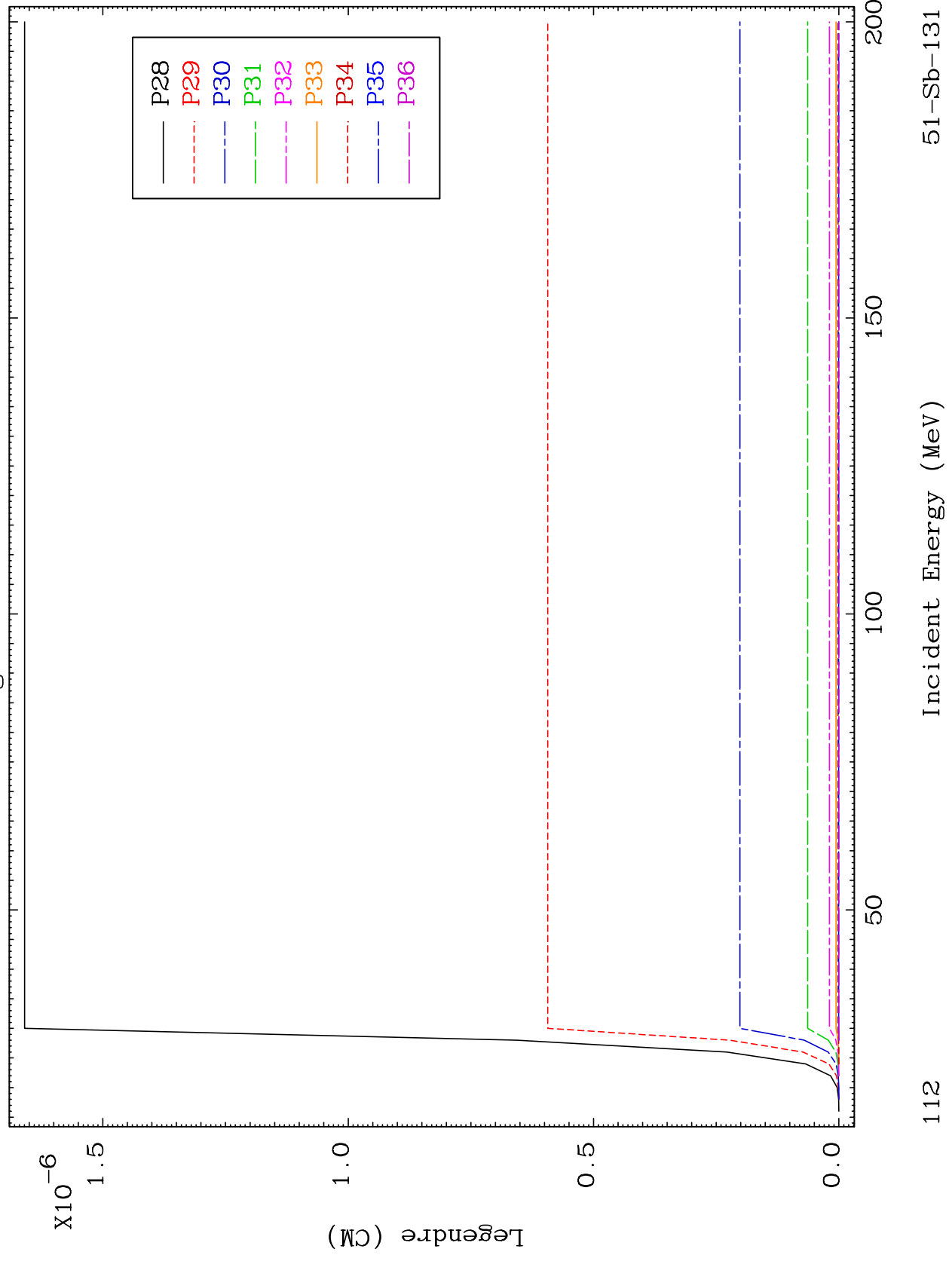


111

MAT 5155

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

51-Sb-131

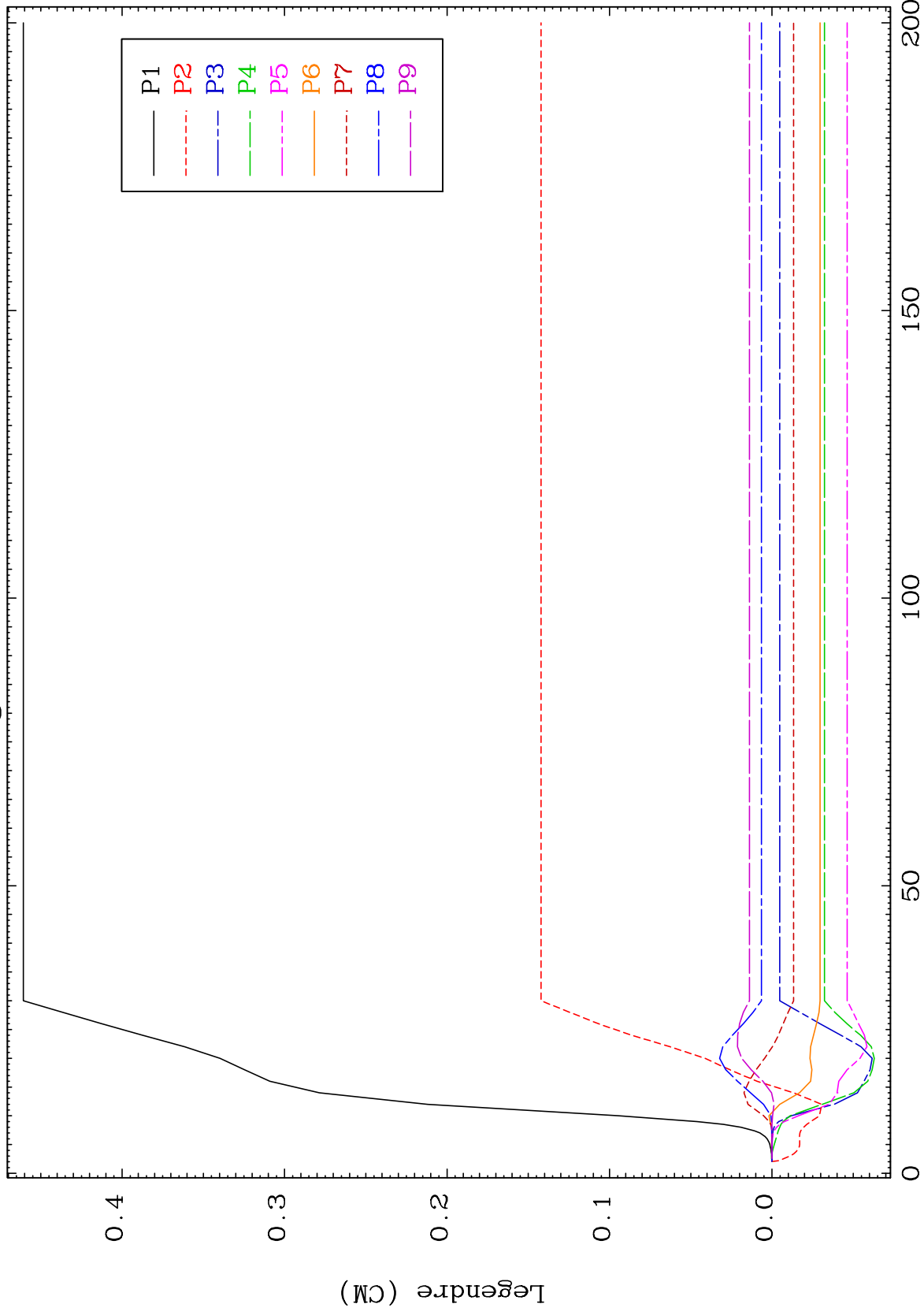


112

MAT 5155

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

51-Sb-131



113

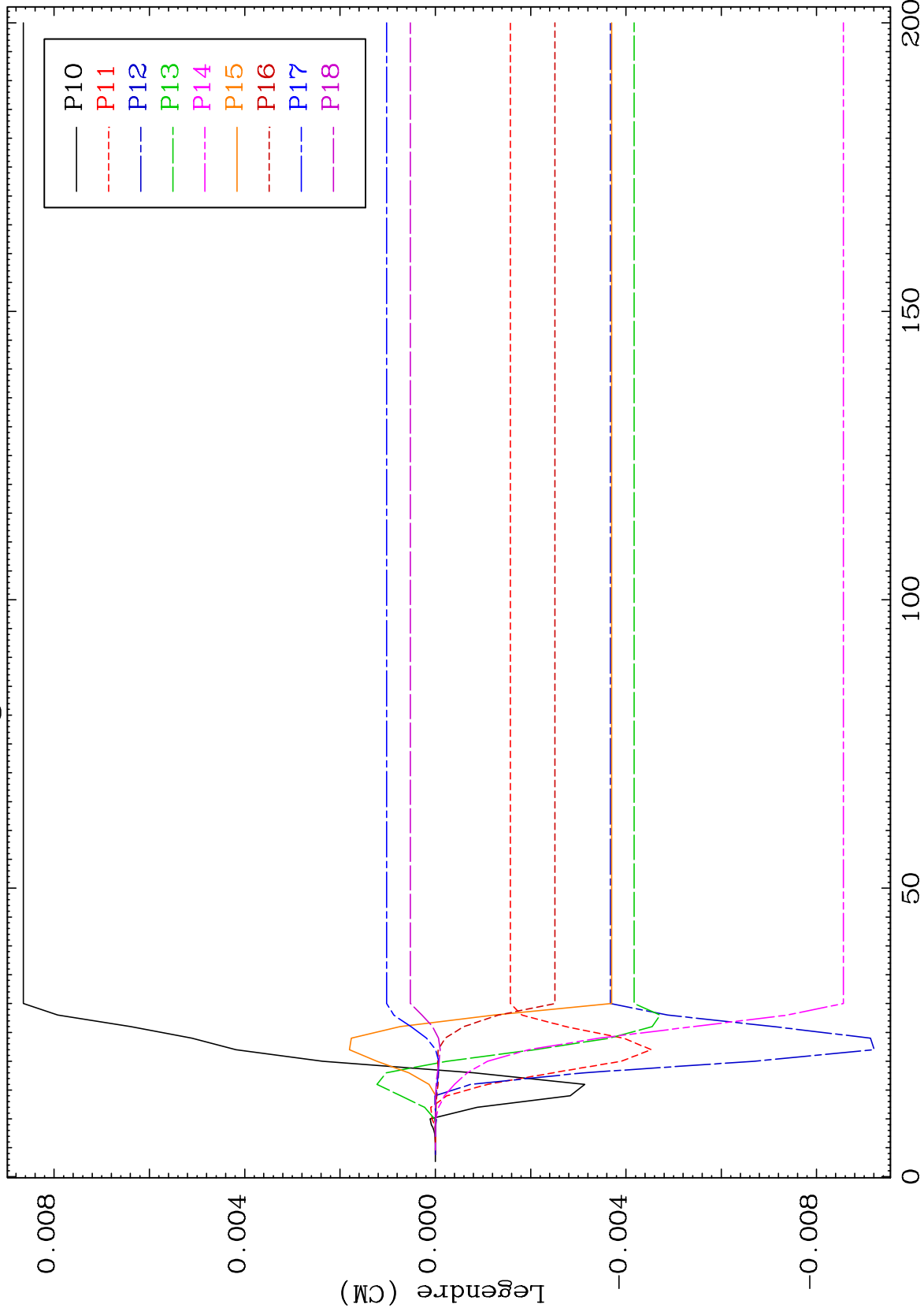
Incident Energy (MeV)

51-Sb-131

MAT 5155

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

51-Sb-131



114

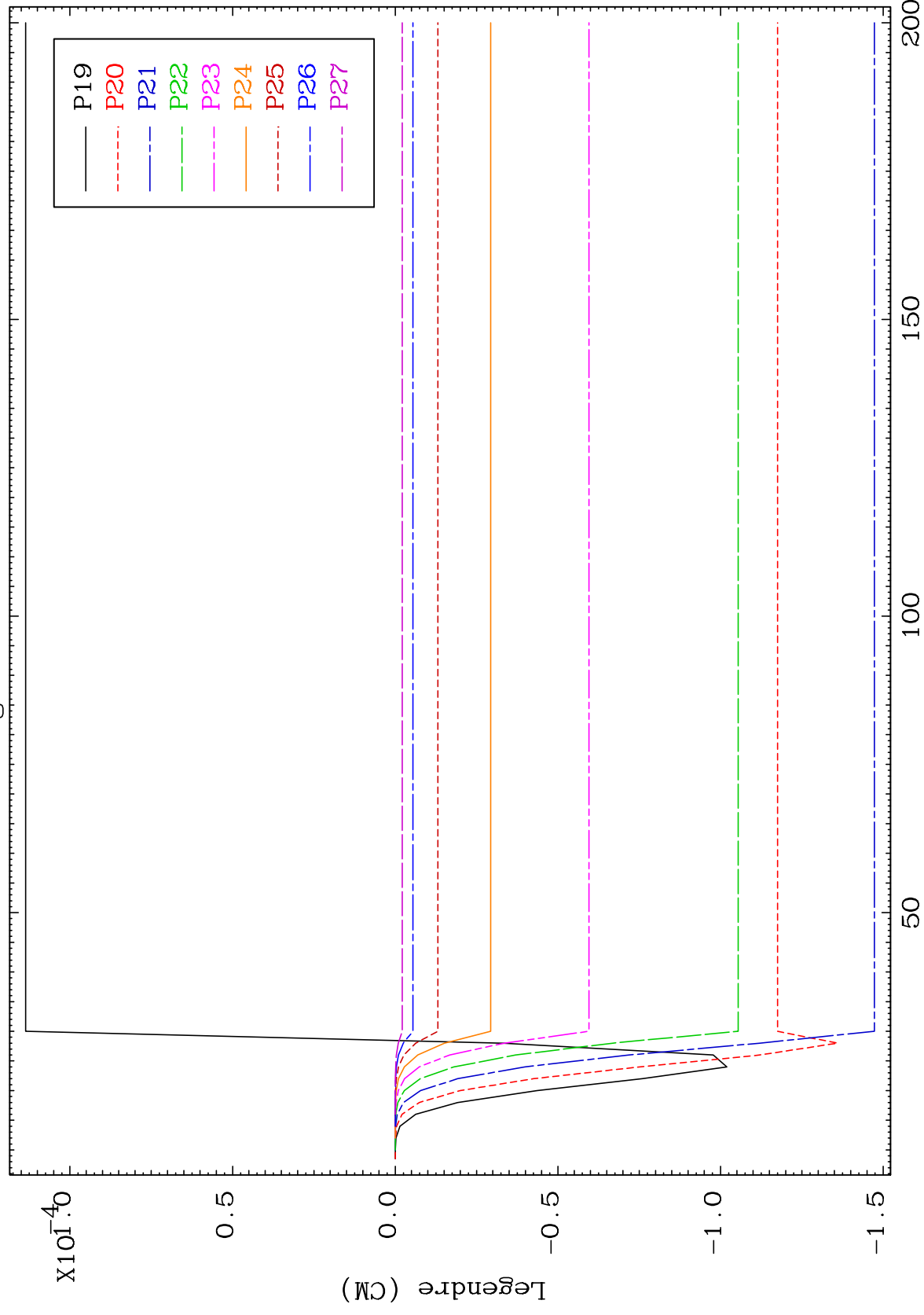
Incident Energy (MeV)

51-Sb-131

MAT 5155

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

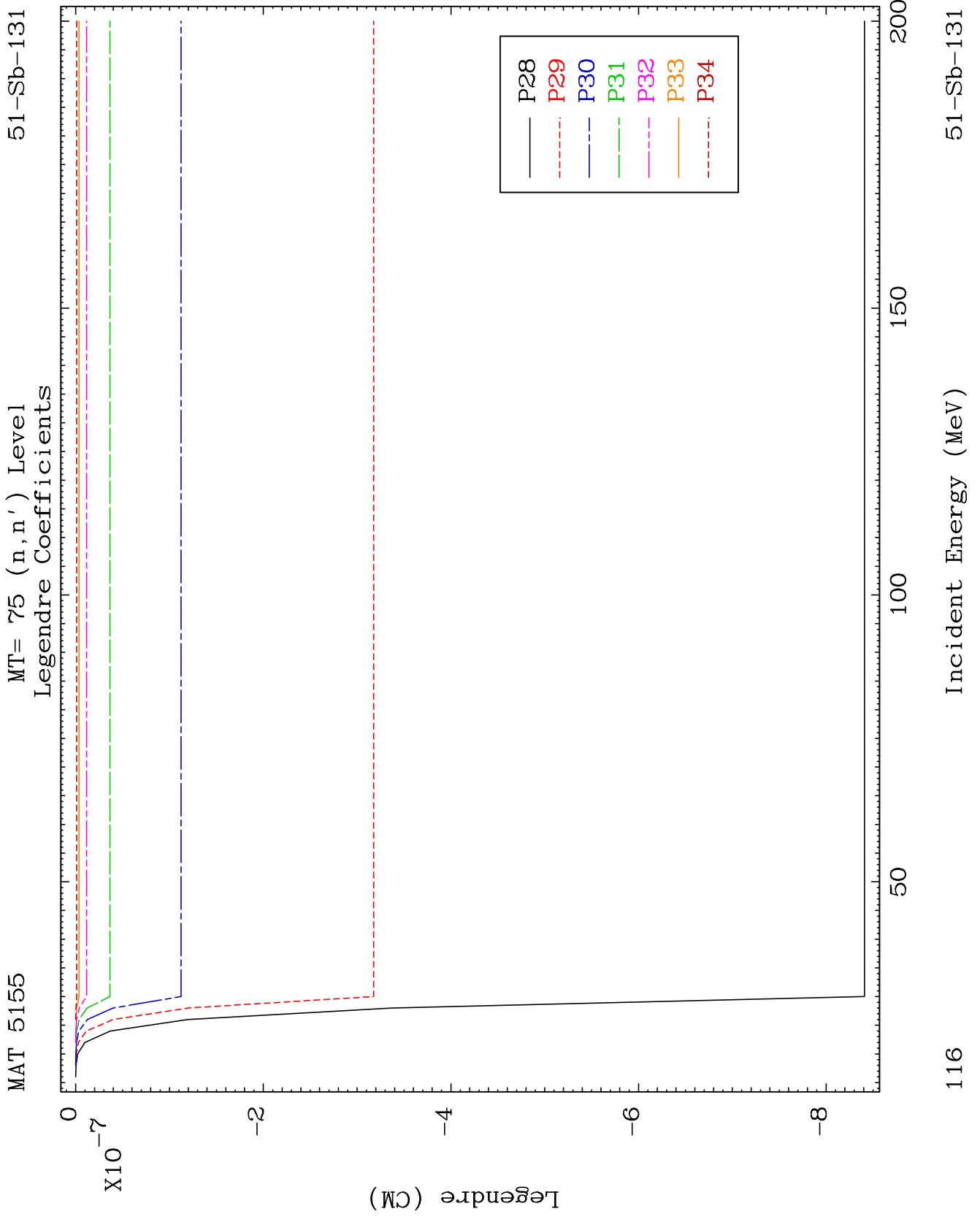
51-Sb-131



115

Incident Energy (MeV)

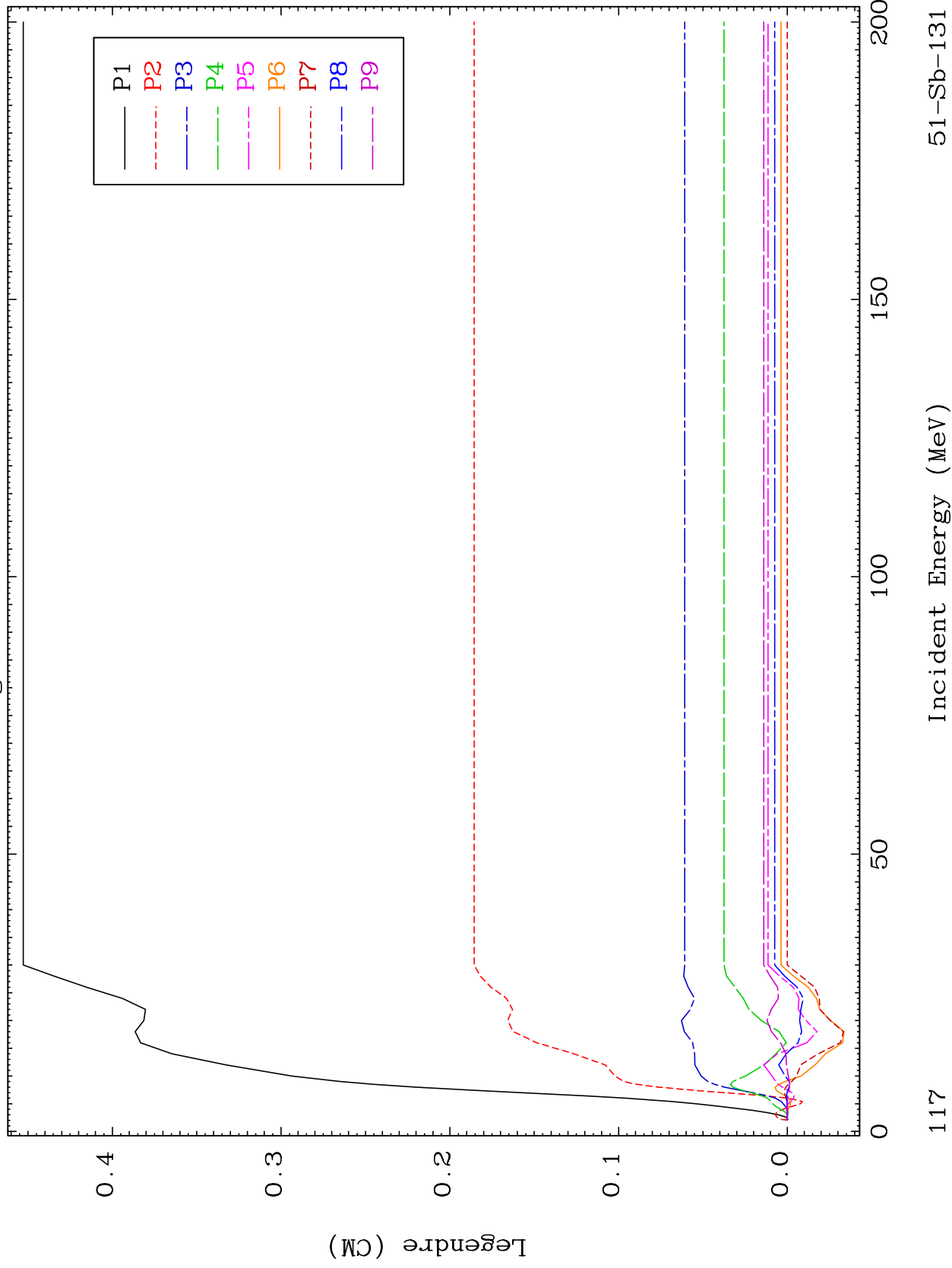
51-Sb-131



MAT 5155

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

51-Sb-131



117

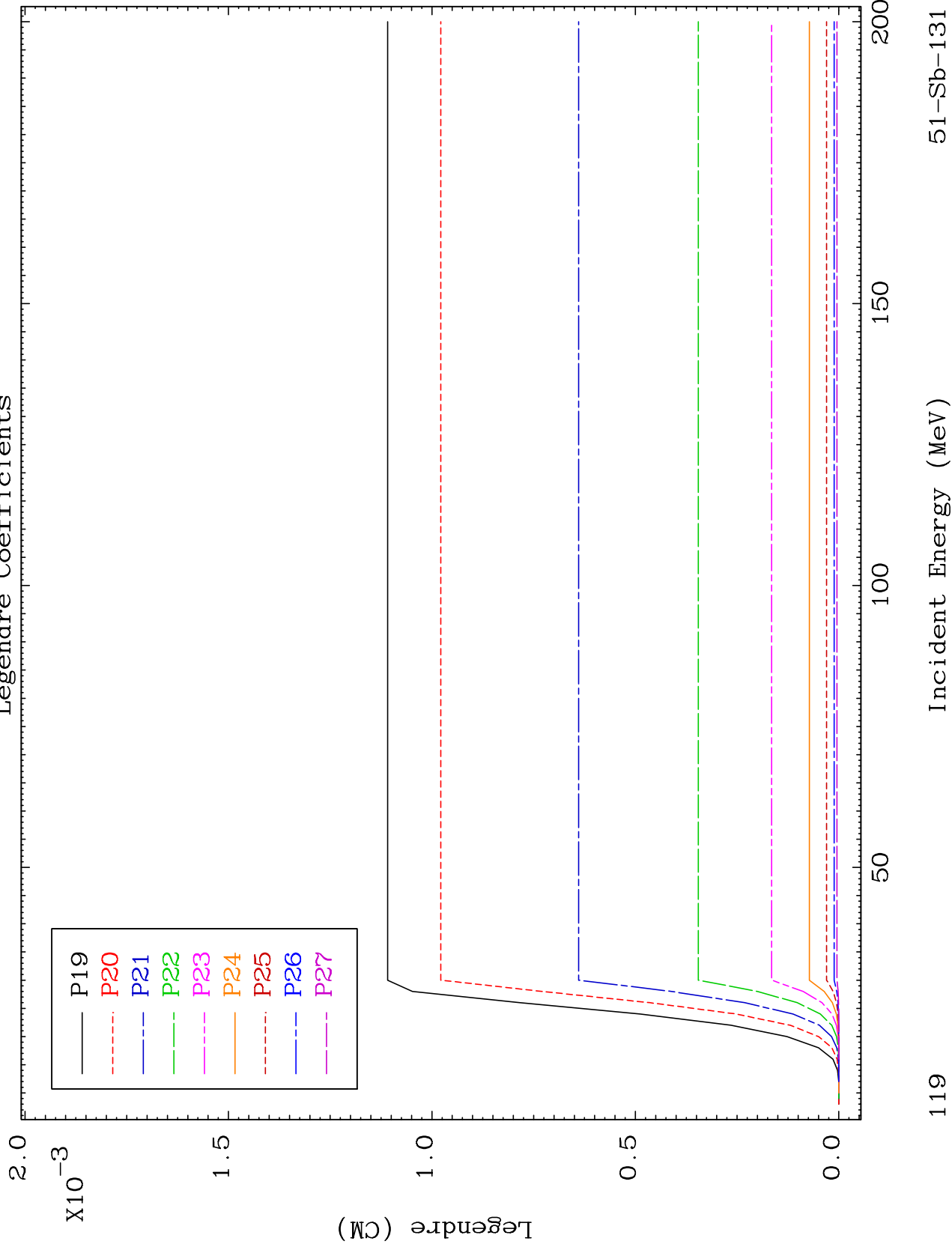
Incident Energy (MeV)

51-Sb-131

MAT 5155

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

51-Sb-131



119

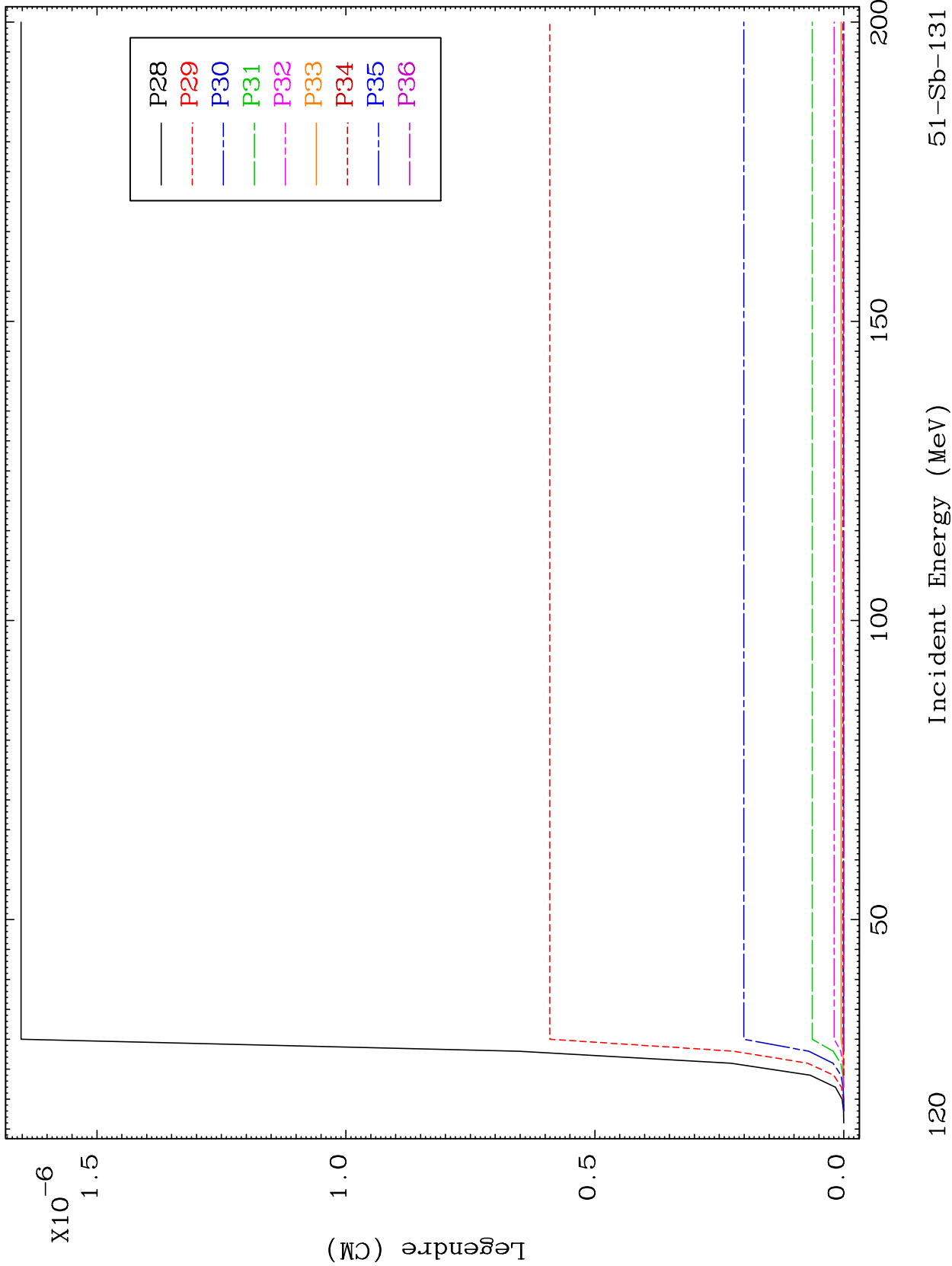
Incident Energy (MeV)

51-Sb-131

MAT 5155

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

51-Sb-131



120

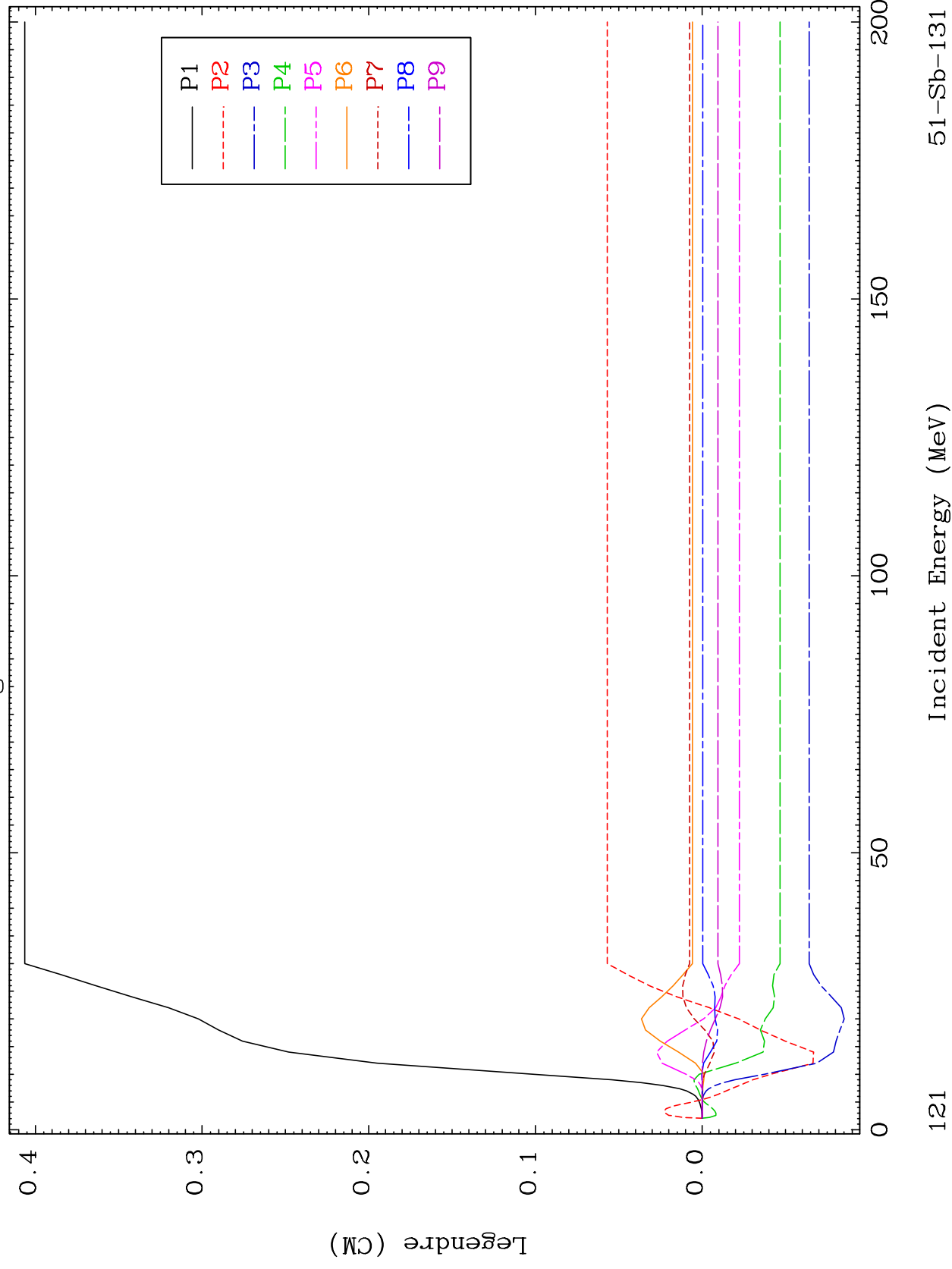
Incident Energy (MeV)

51-Sb-131

MAT 5155

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

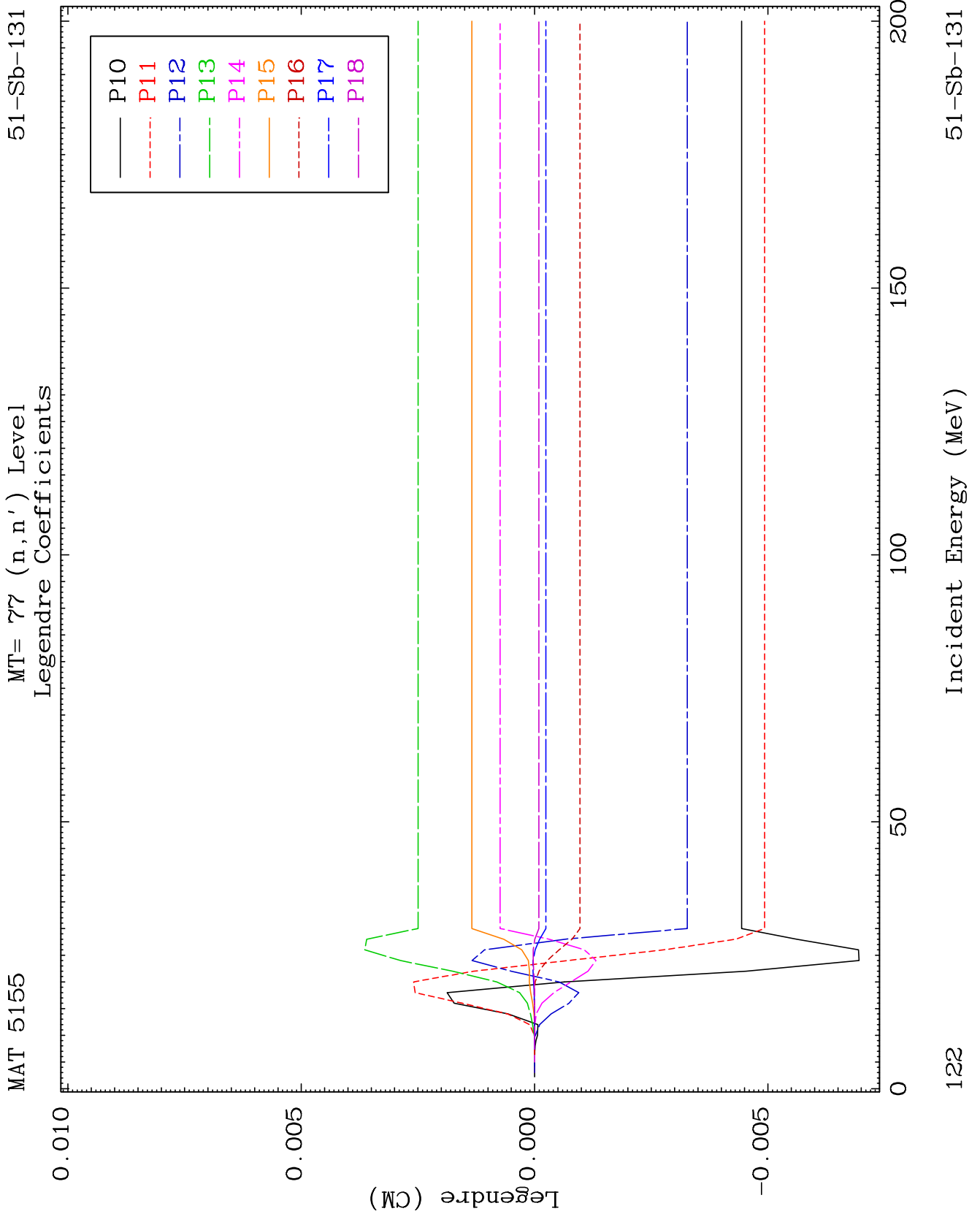
51-Sb-131



51-Sb-131

Incident Energy (MeV)

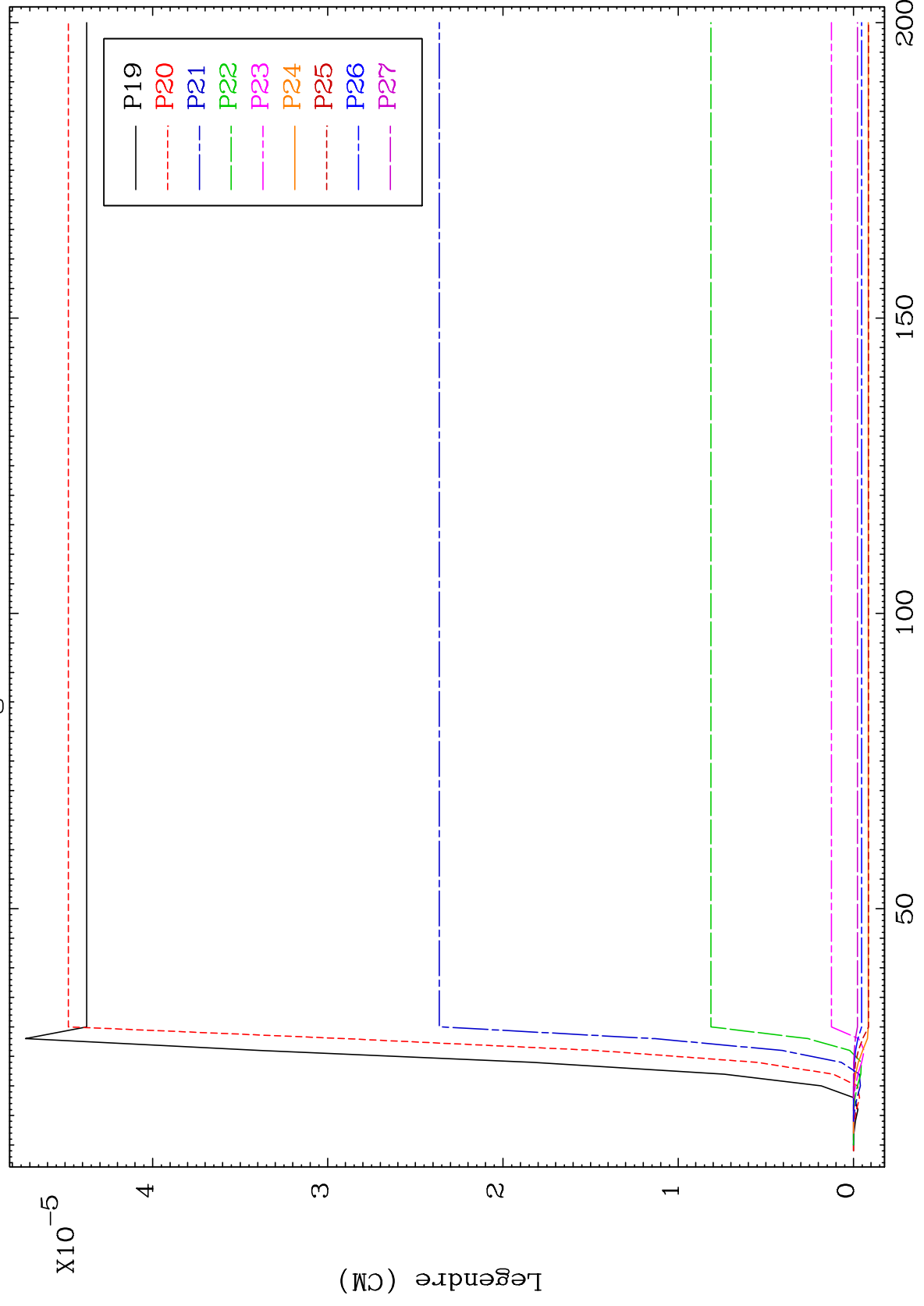
121



MAT 5155

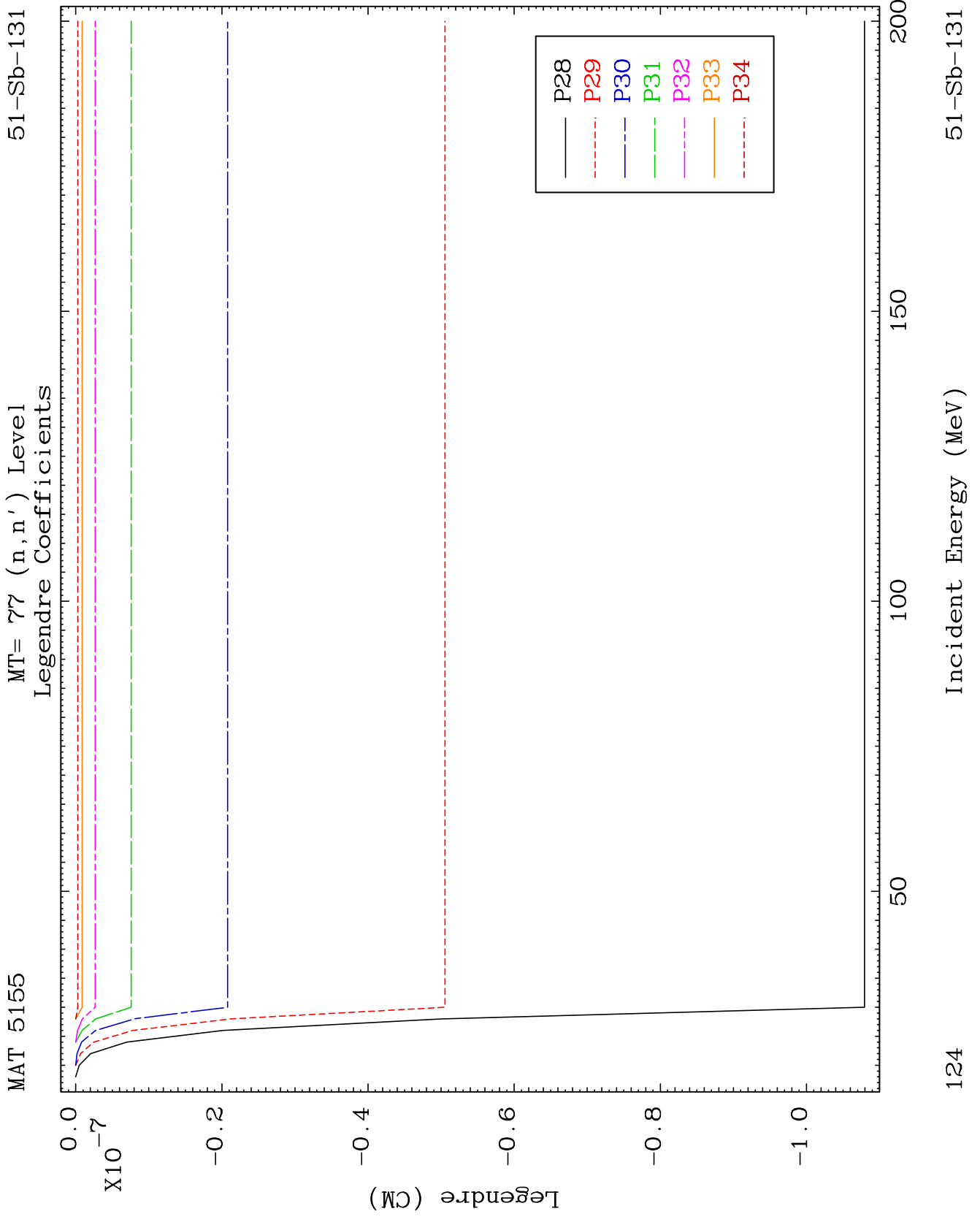
MT= 77 (n,n') Level
Legendre Coefficients

51-Sb-131



123

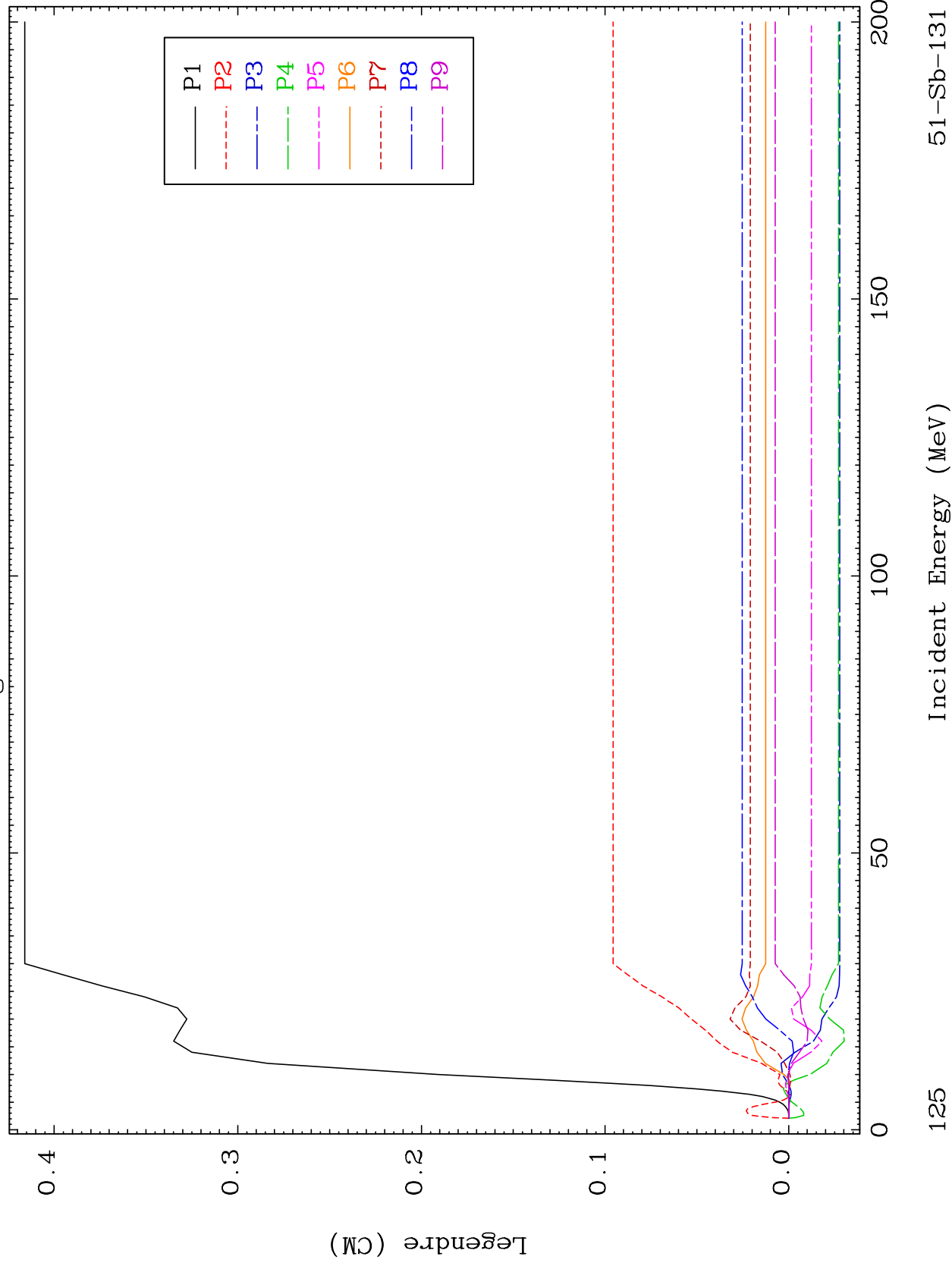
51-Sb-131



MAT 5155

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

51-Sb-131



51-Sb-131

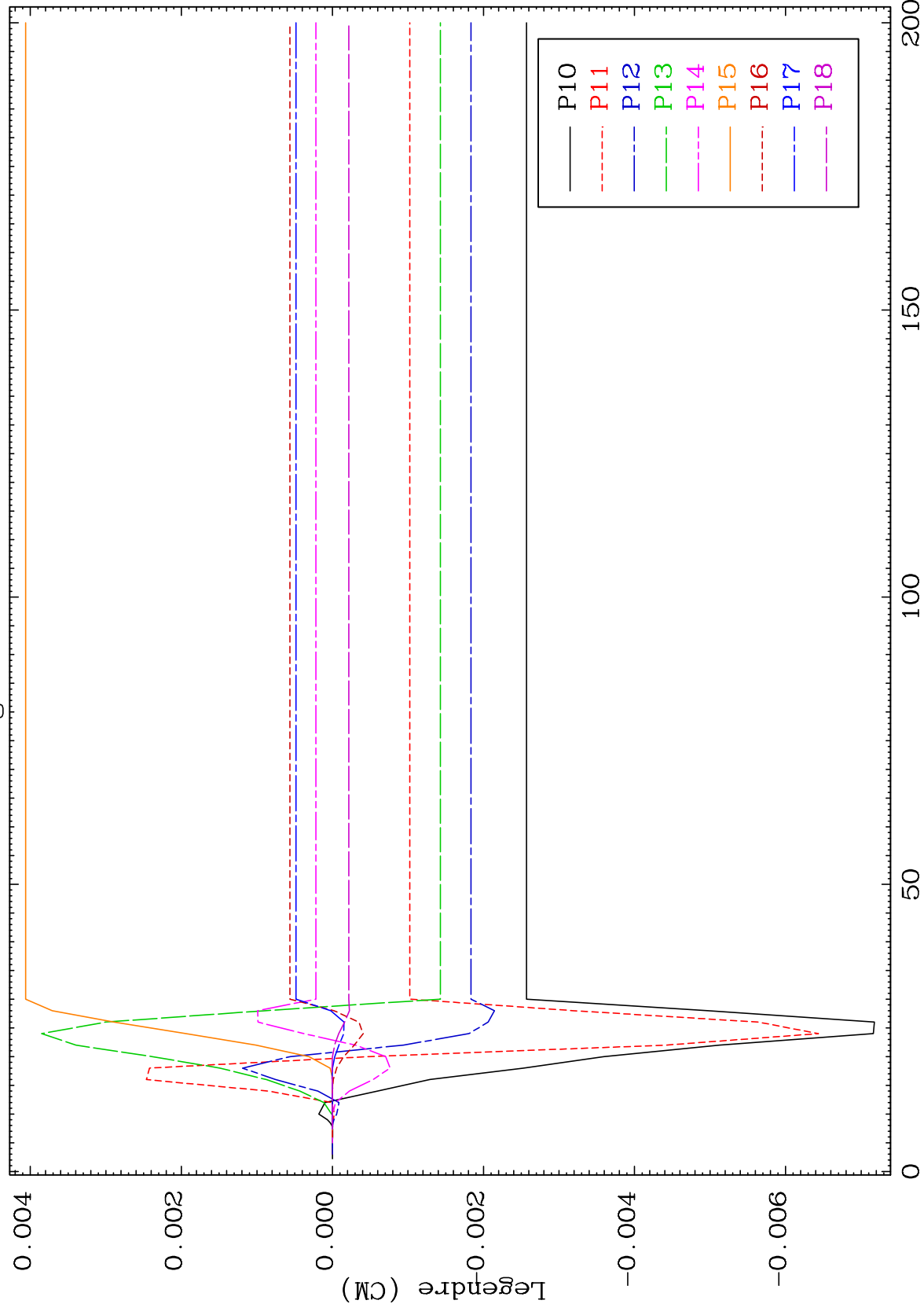
Incident Energy (MeV)

125

MAT 5155

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

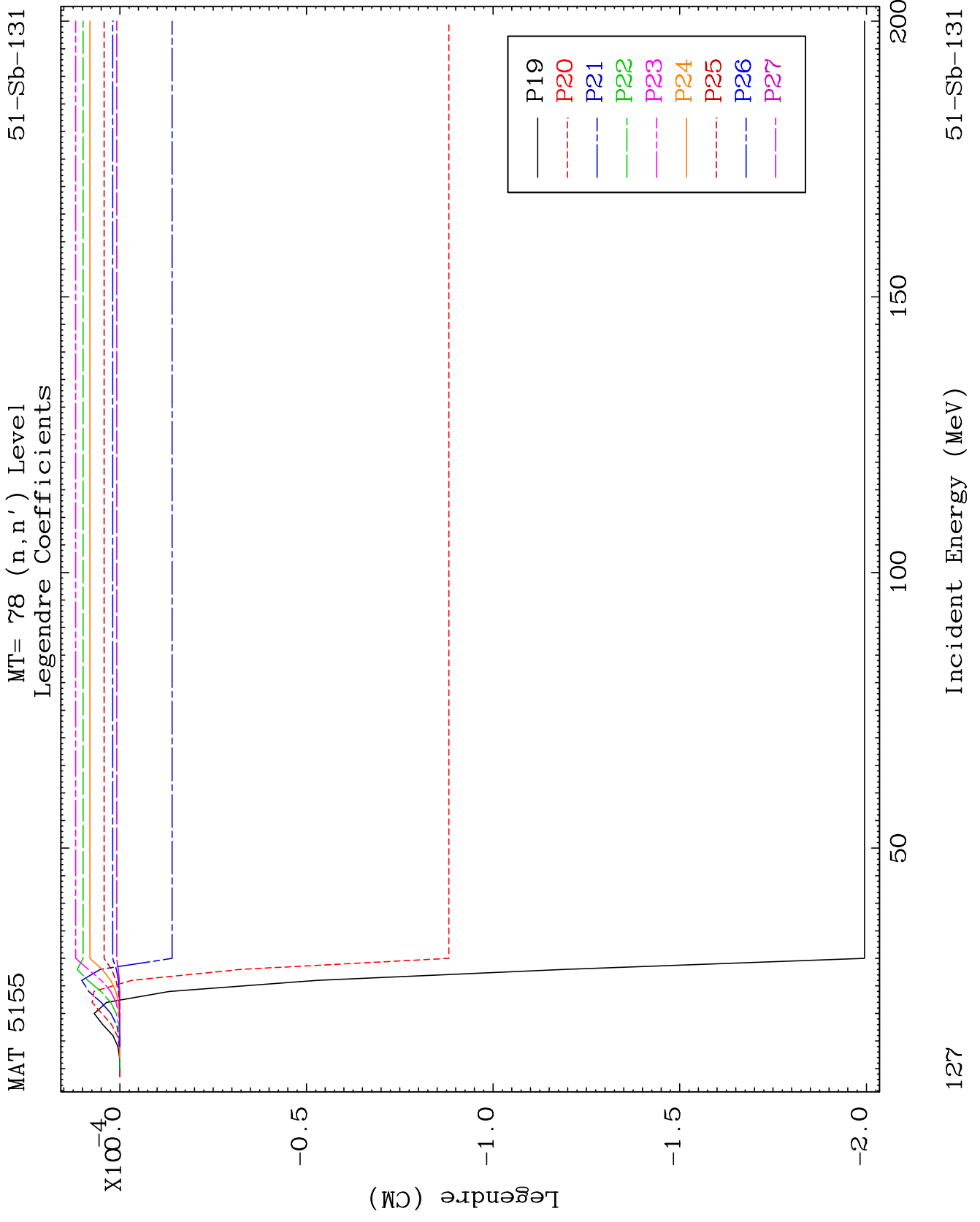
51-Sb-131



126

Incident Energy (MeV)

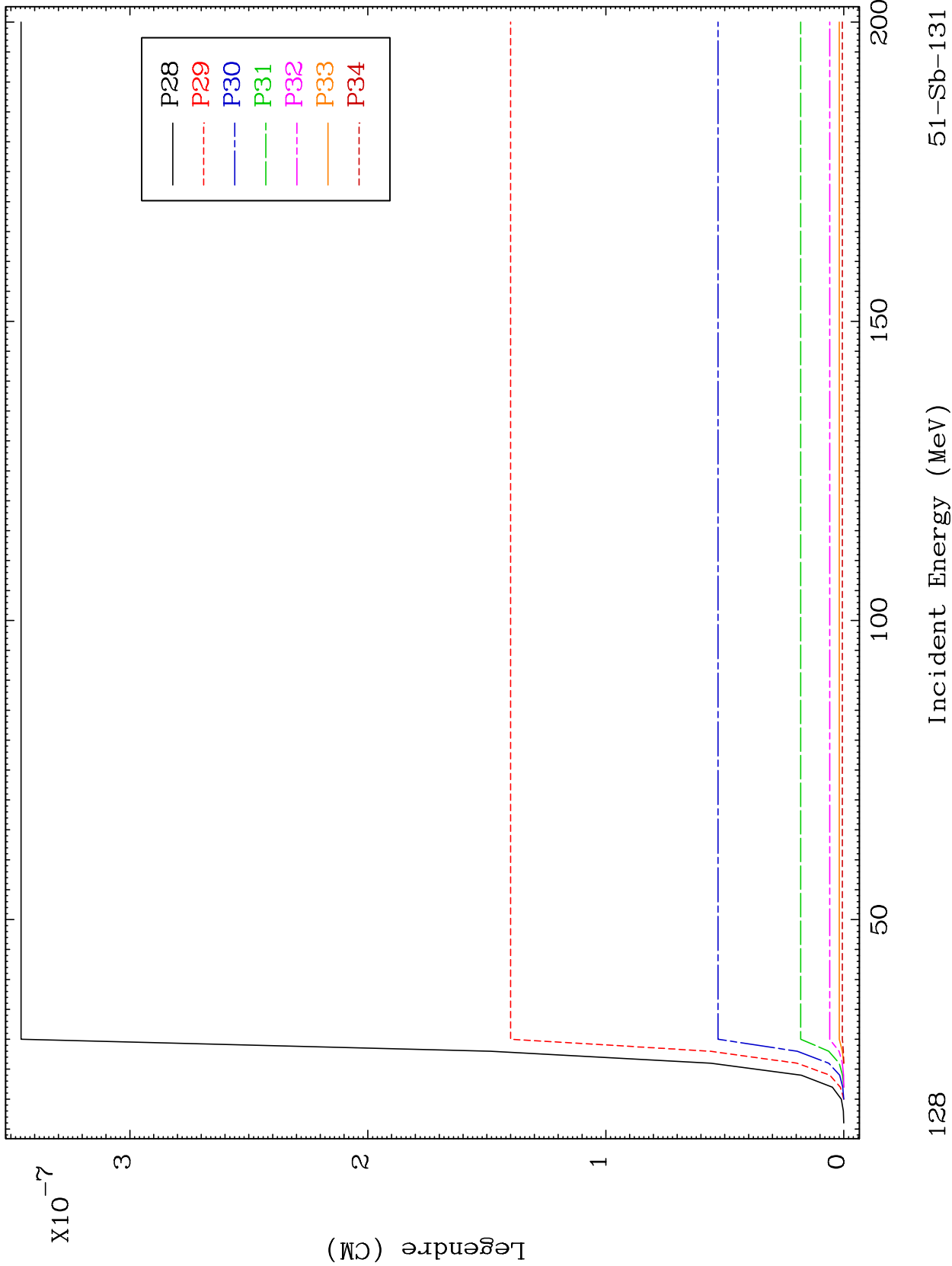
51-Sb-131



MAT 5155

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

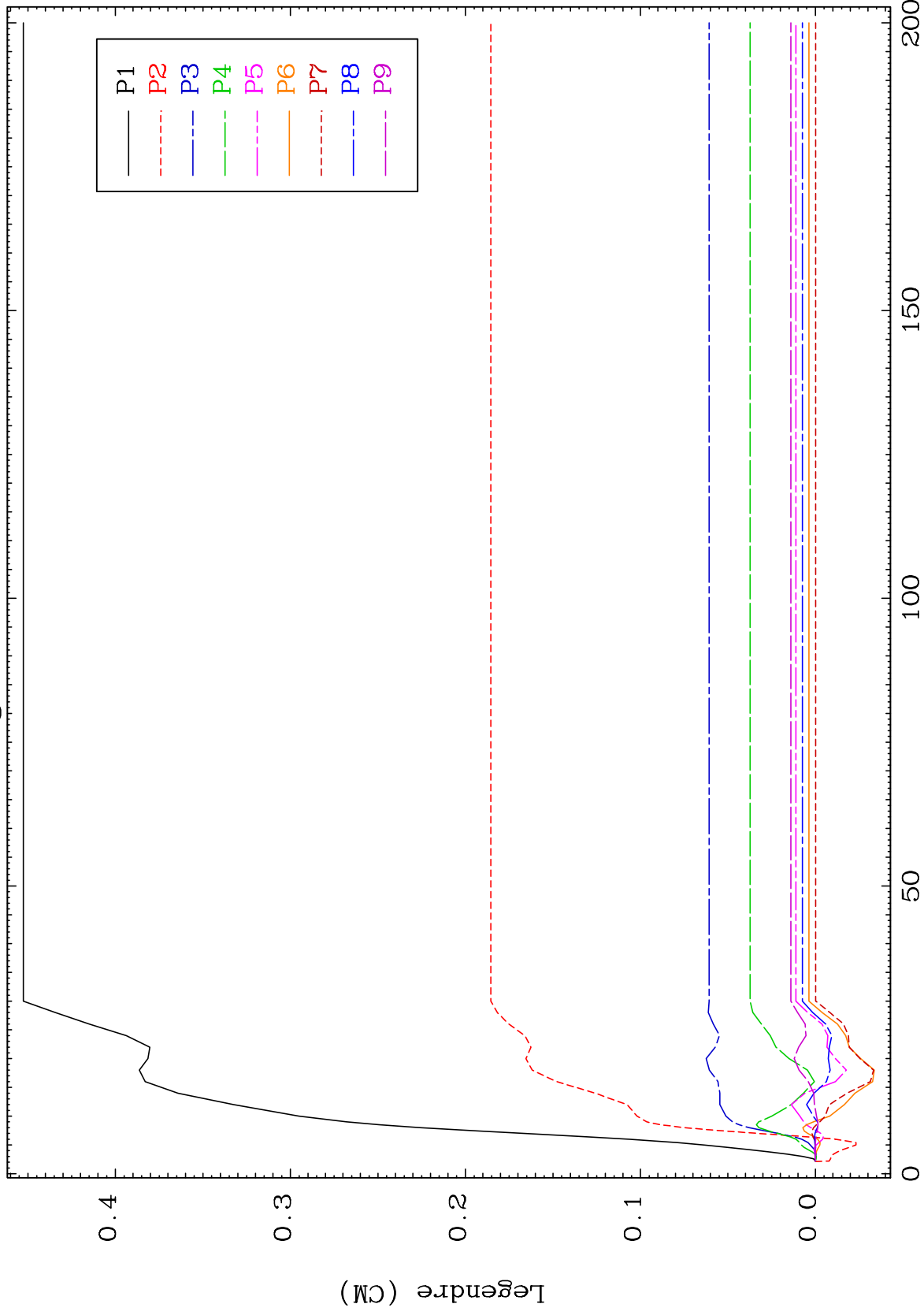
51-Sb-131



MAT 5155

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

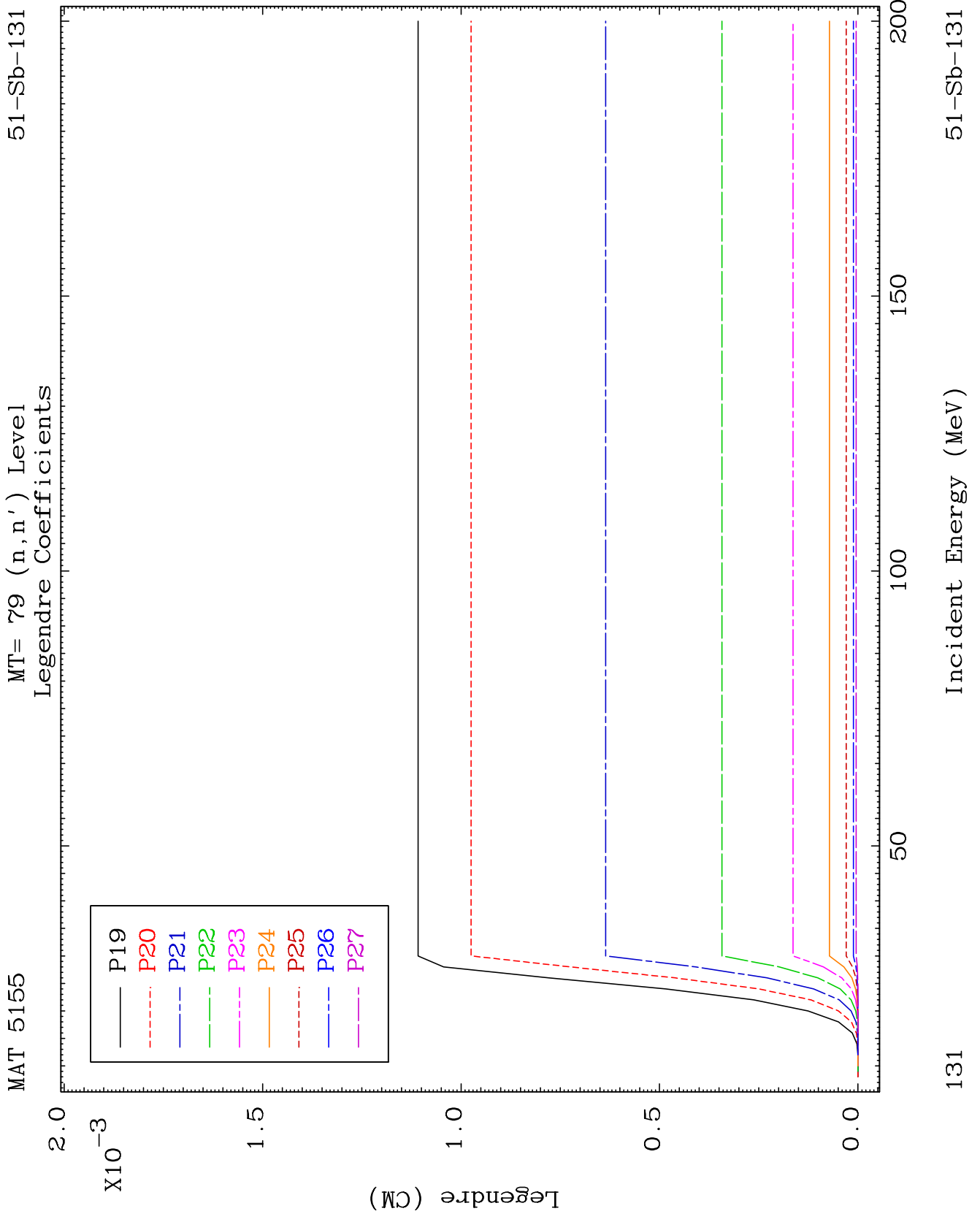
51-Sb-131



129

Incident Energy (MeV)

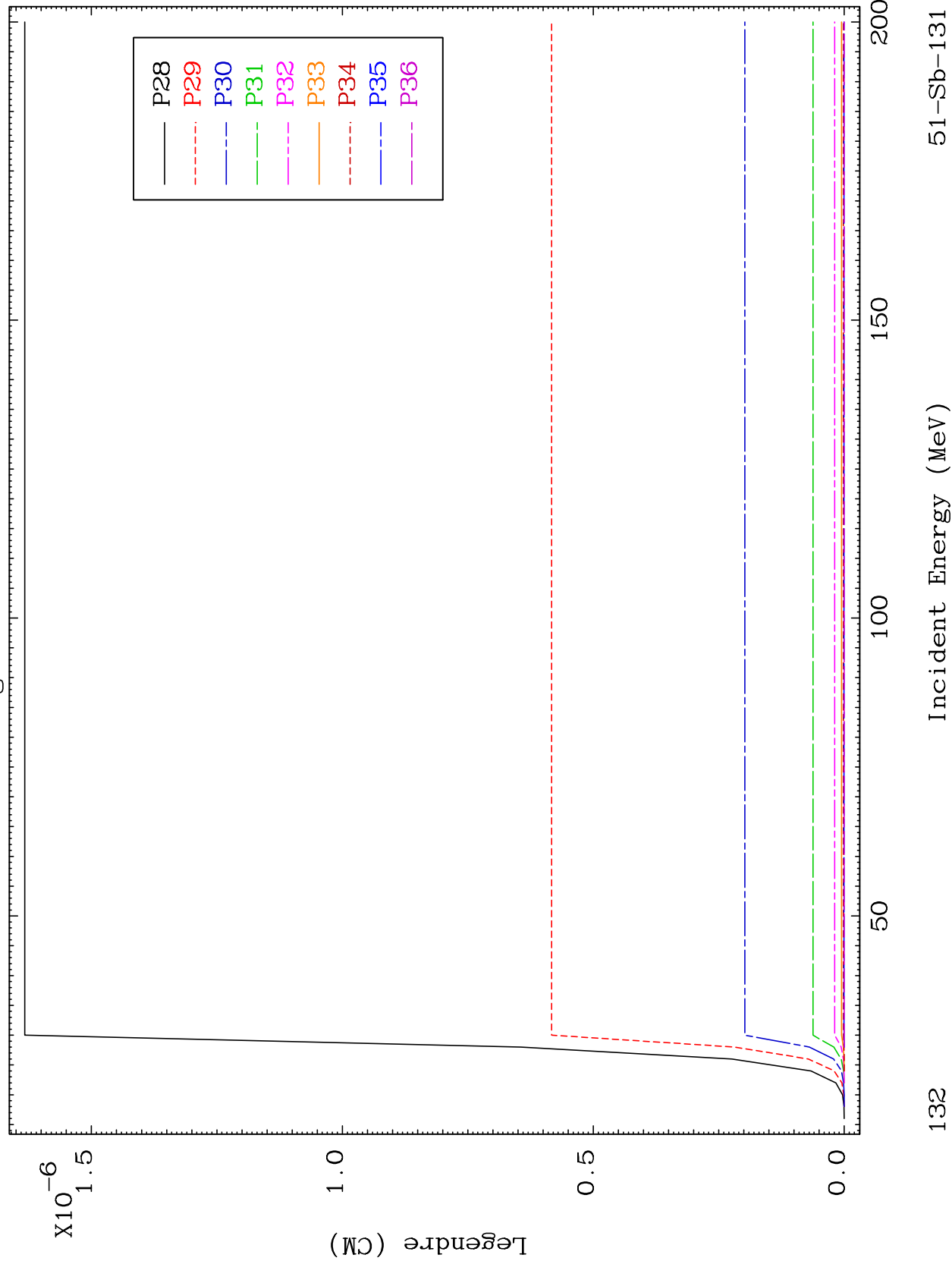
51-Sb-131



MAT 5155

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

51-Sb-131

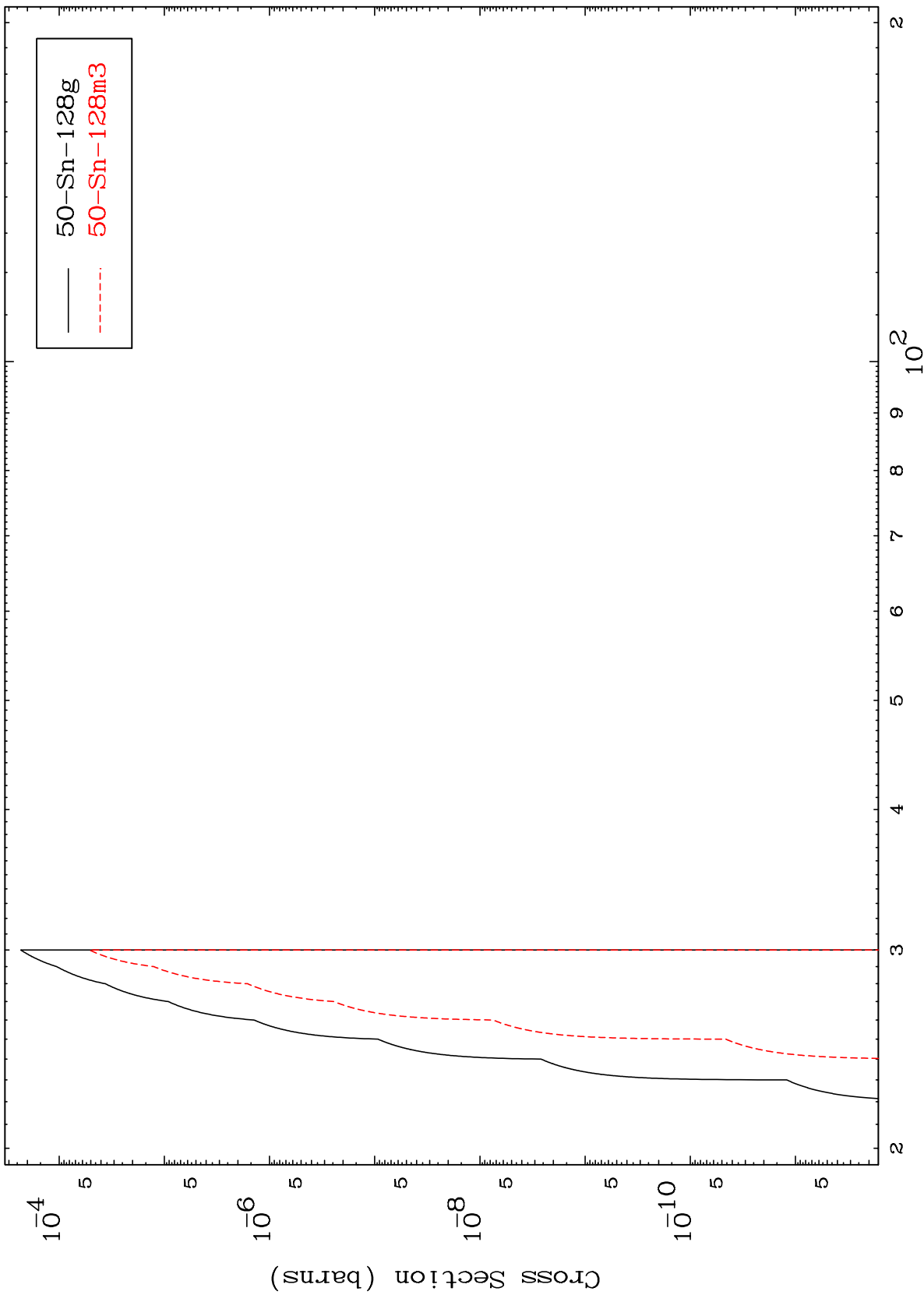


132

Incident Energy (MeV)

51-Sb-131

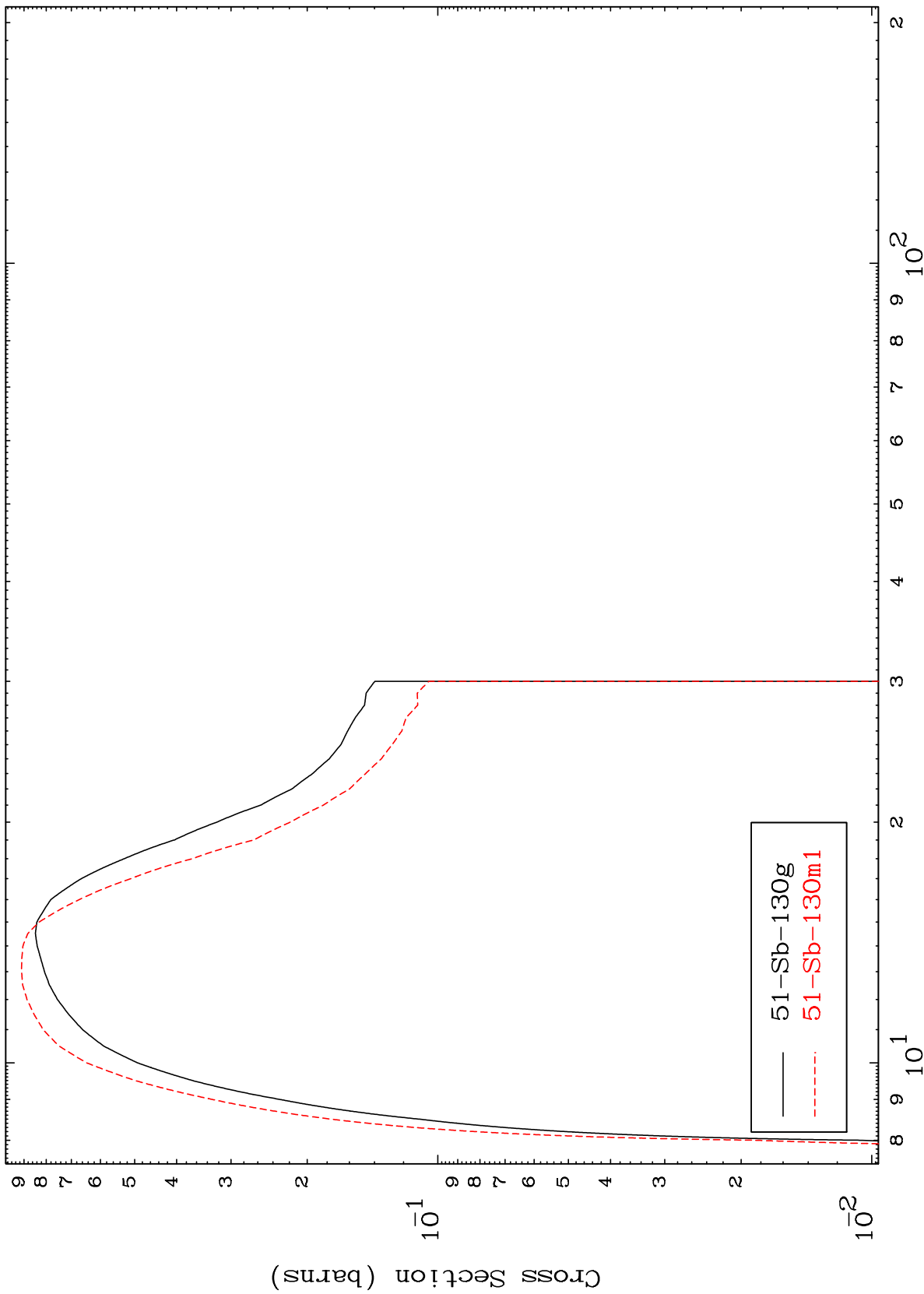
Radionuclide Production Cross Section



MAT 5155

51-Sb-131

(n,2n)
Radionuclide Production Cross Section



134

51-Sb-131

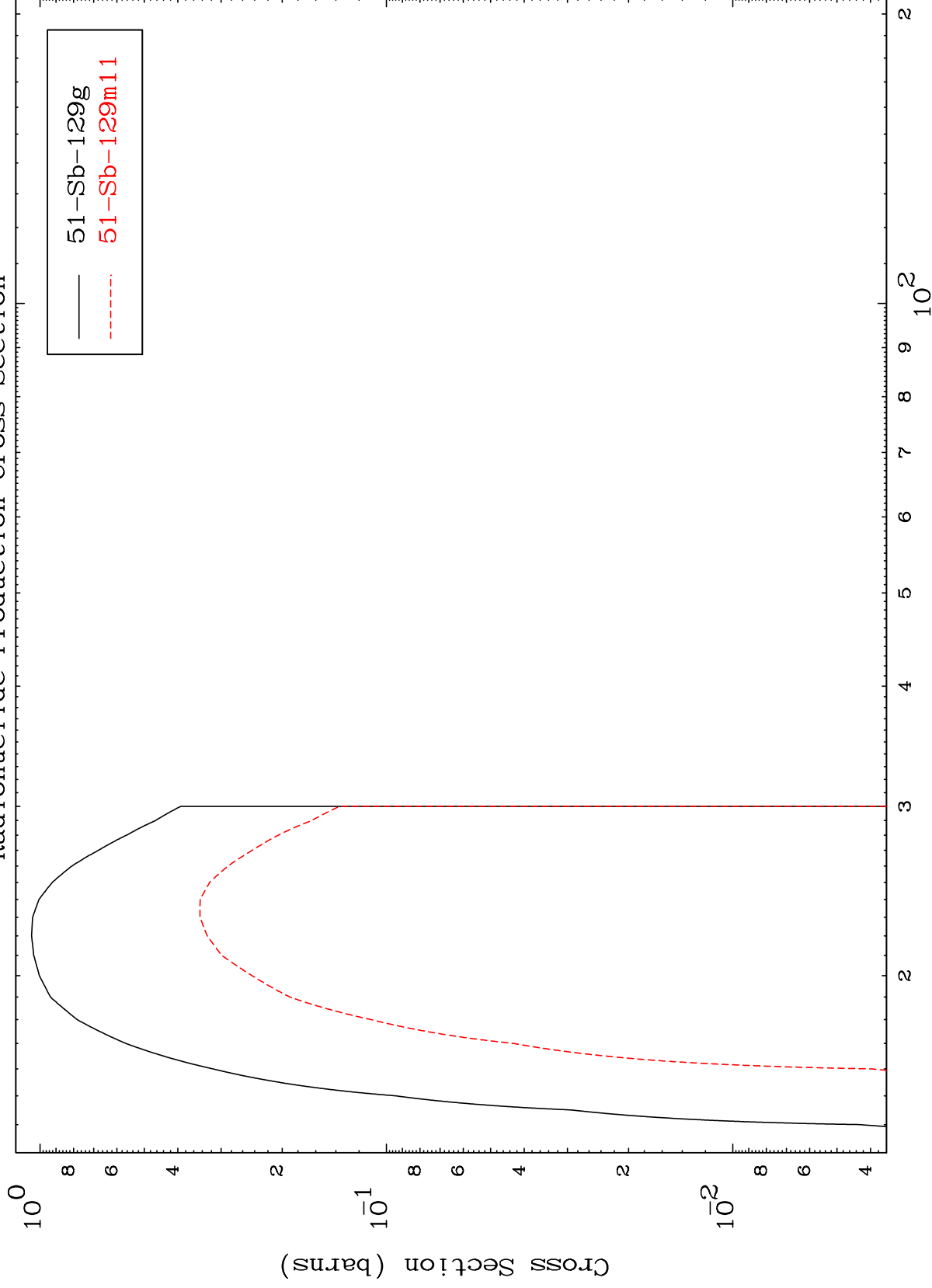
Incident Energy (MeV)

MAT 5155

(n,3n)

51-Sb-131

Radionuclide Production Cross Section



135

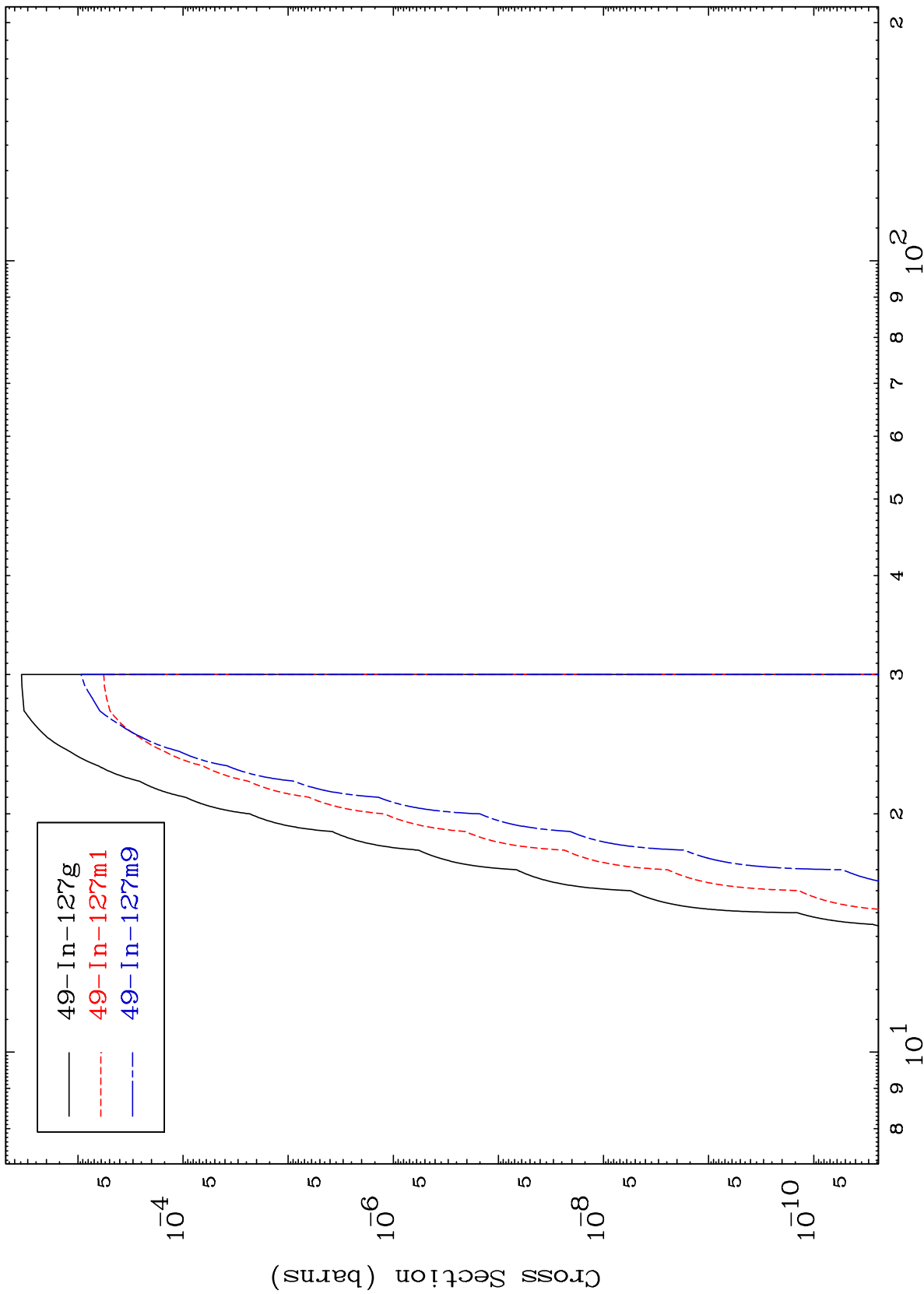
Incident Energy (MeV)

51-Sb-131

MAT 5155

51-Sb-131

(n,n') α
Radionuclide Production Cross Section



136

Incident Energy (MeV)

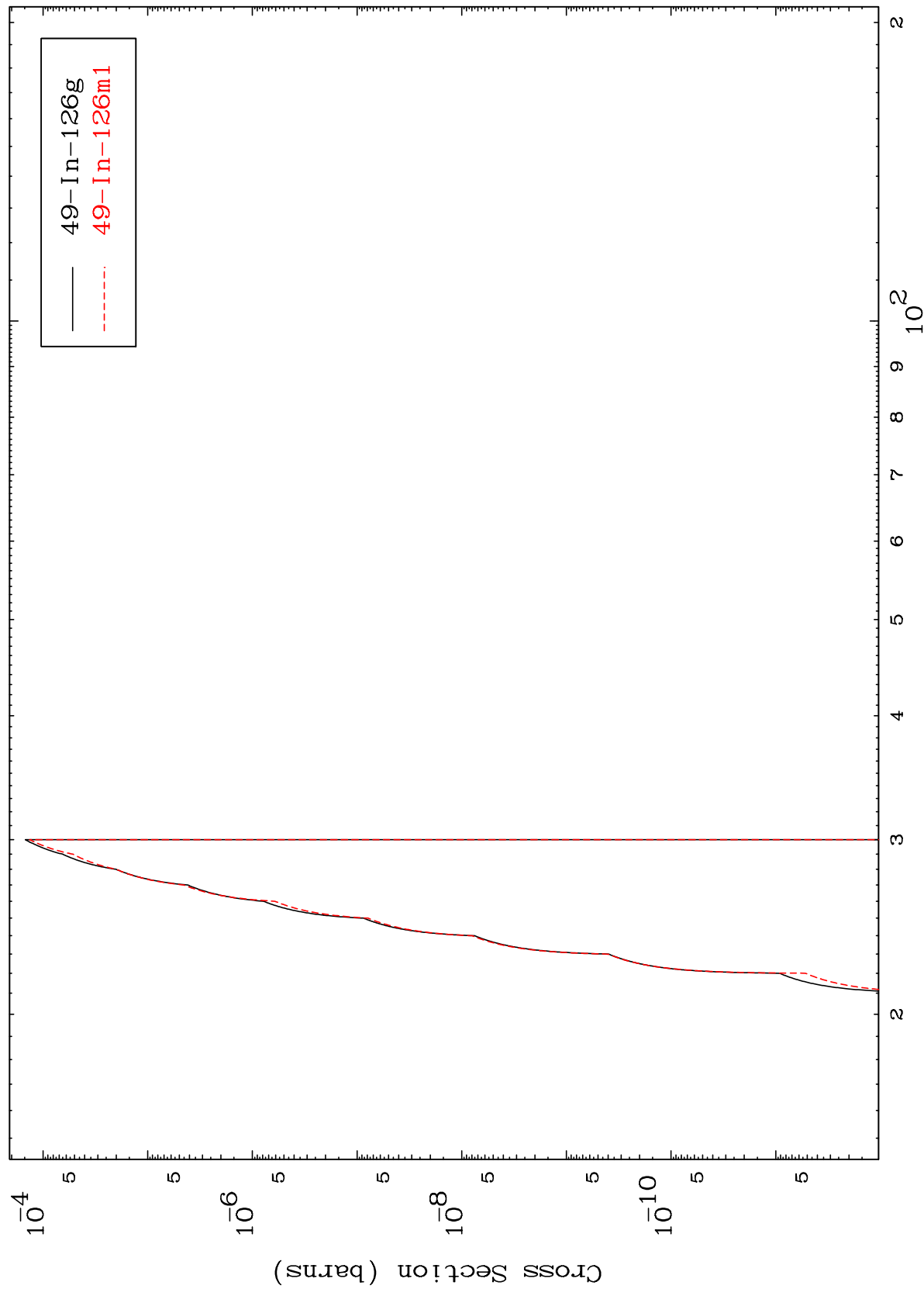
51-Sb-131

MAT 5155

(n,2n) α

51-Sb-131

Radionuclide Production Cross Section



137

Incident Energy (MeV)

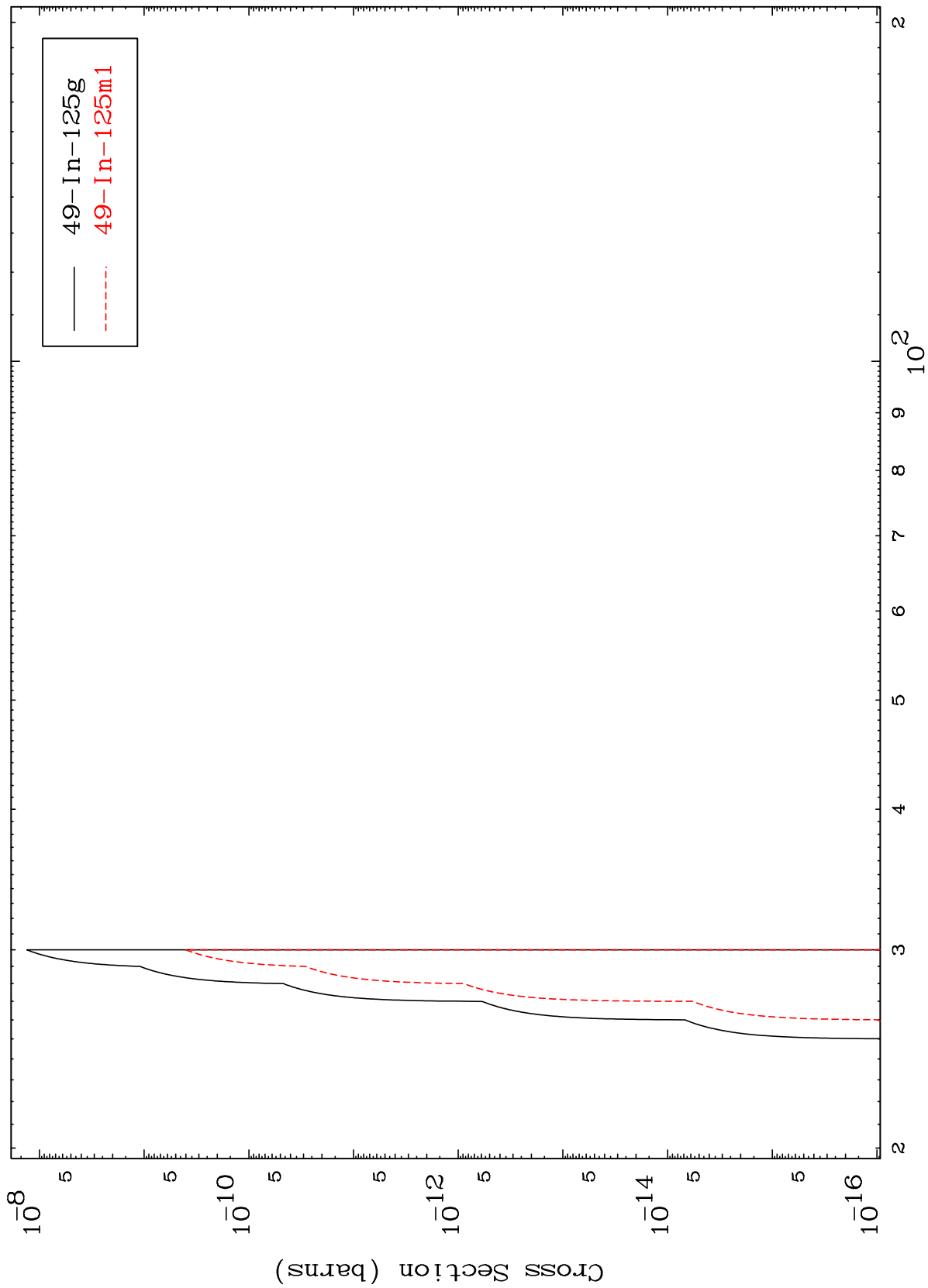
51-Sb-131

MAT 5155

(n,3n) α

51-Sb-131

Radionuclide Production Cross Section



138

Incident Energy (MeV)

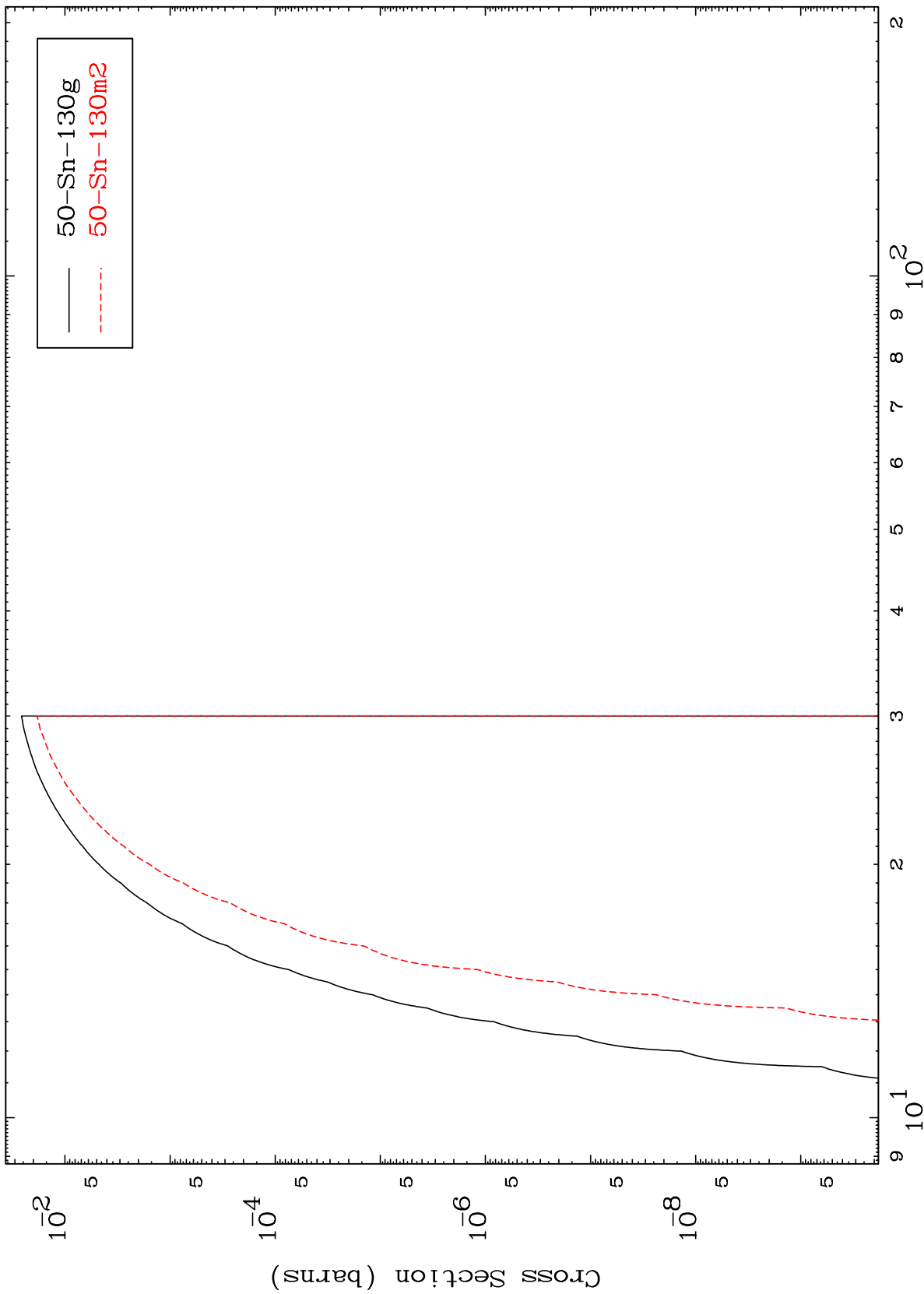
51-Sb-131

MAT 5155

(n,n') p

51-Sb-131

Radionuclide Production Cross Section



139

Incident Energy (MeV)

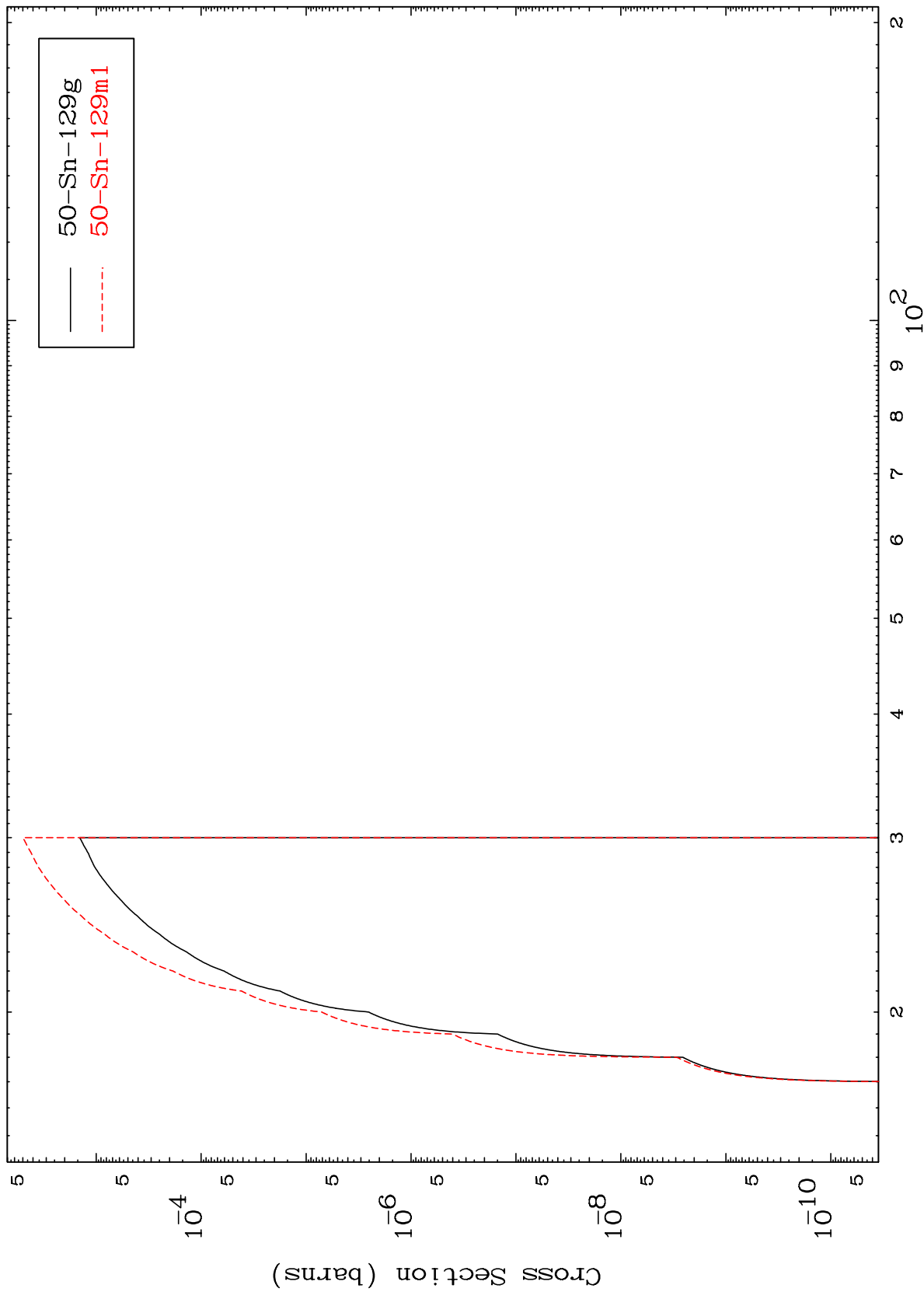
51-Sb-131

MAT 5155

(n,n') d

51-Sb-131

Radionuclide Production Cross Section



140

Incident Energy (MeV)

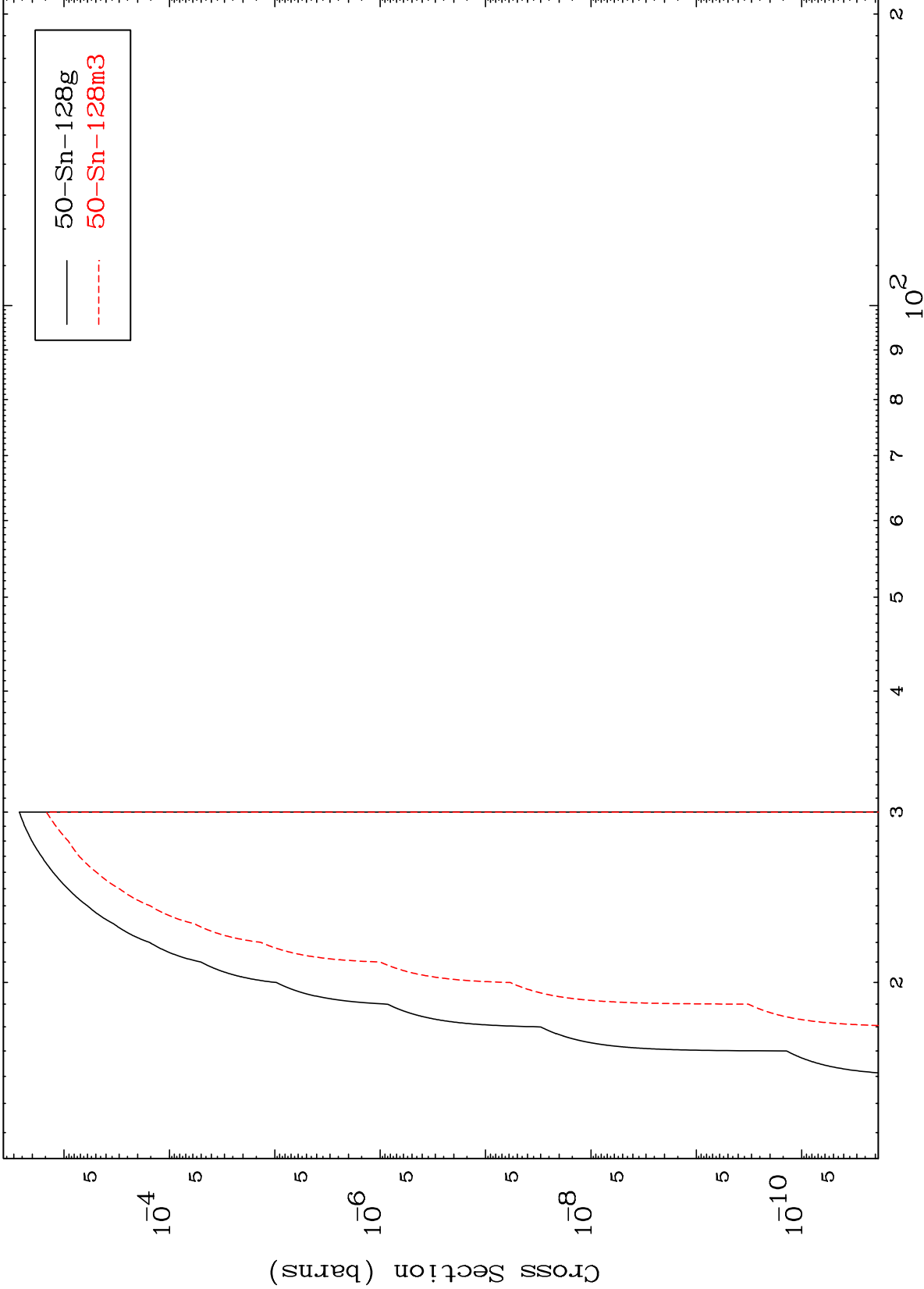
51-Sb-131

MAT 5155

(n,n') t

51-Sb-131

Radionuclide Production Cross Section



50-Sn-128g
50-Sn-128m3

141

Incident Energy (MeV)

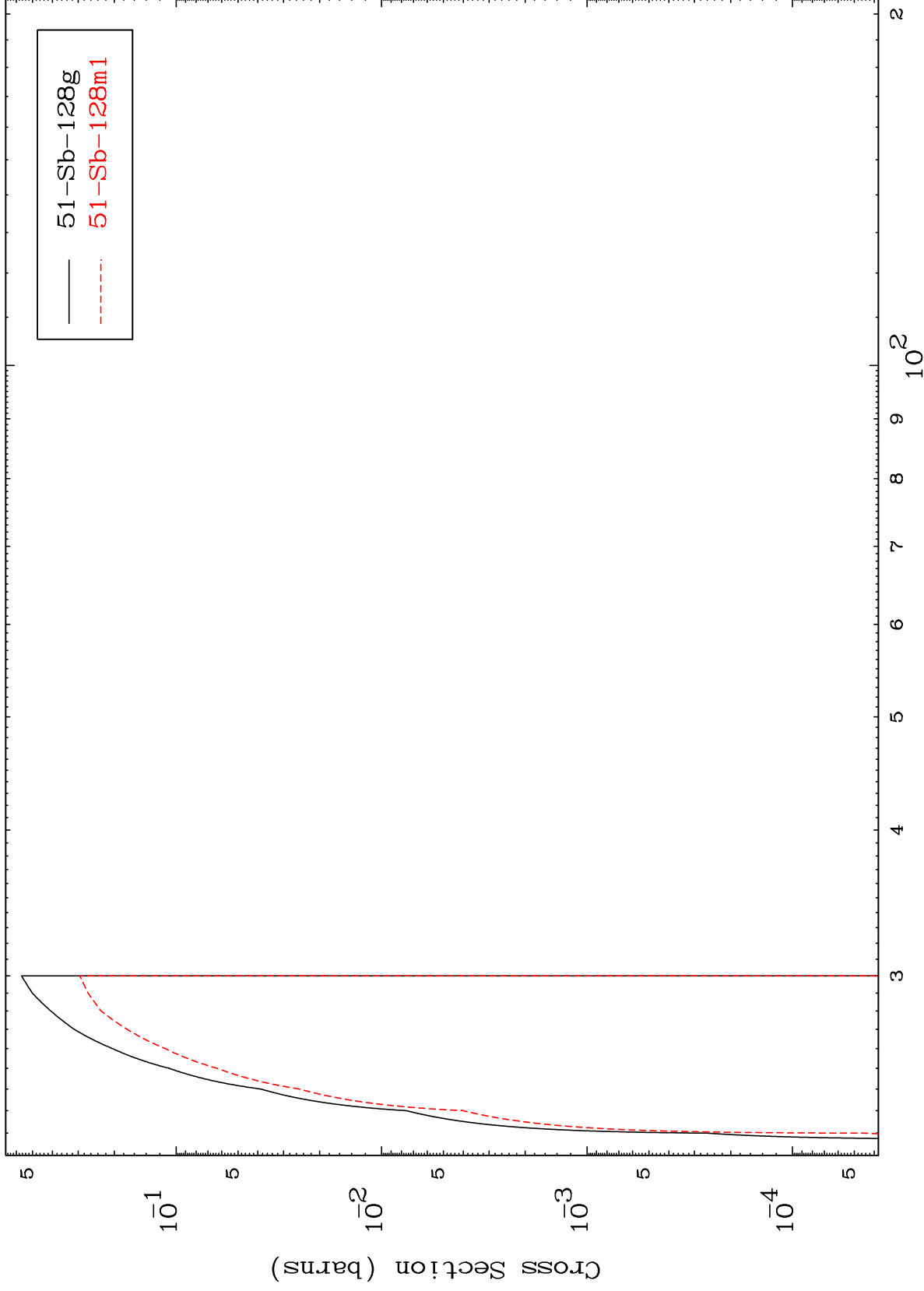
51-Sb-131

MAT 5155

(n,4n)

51-Sb-131

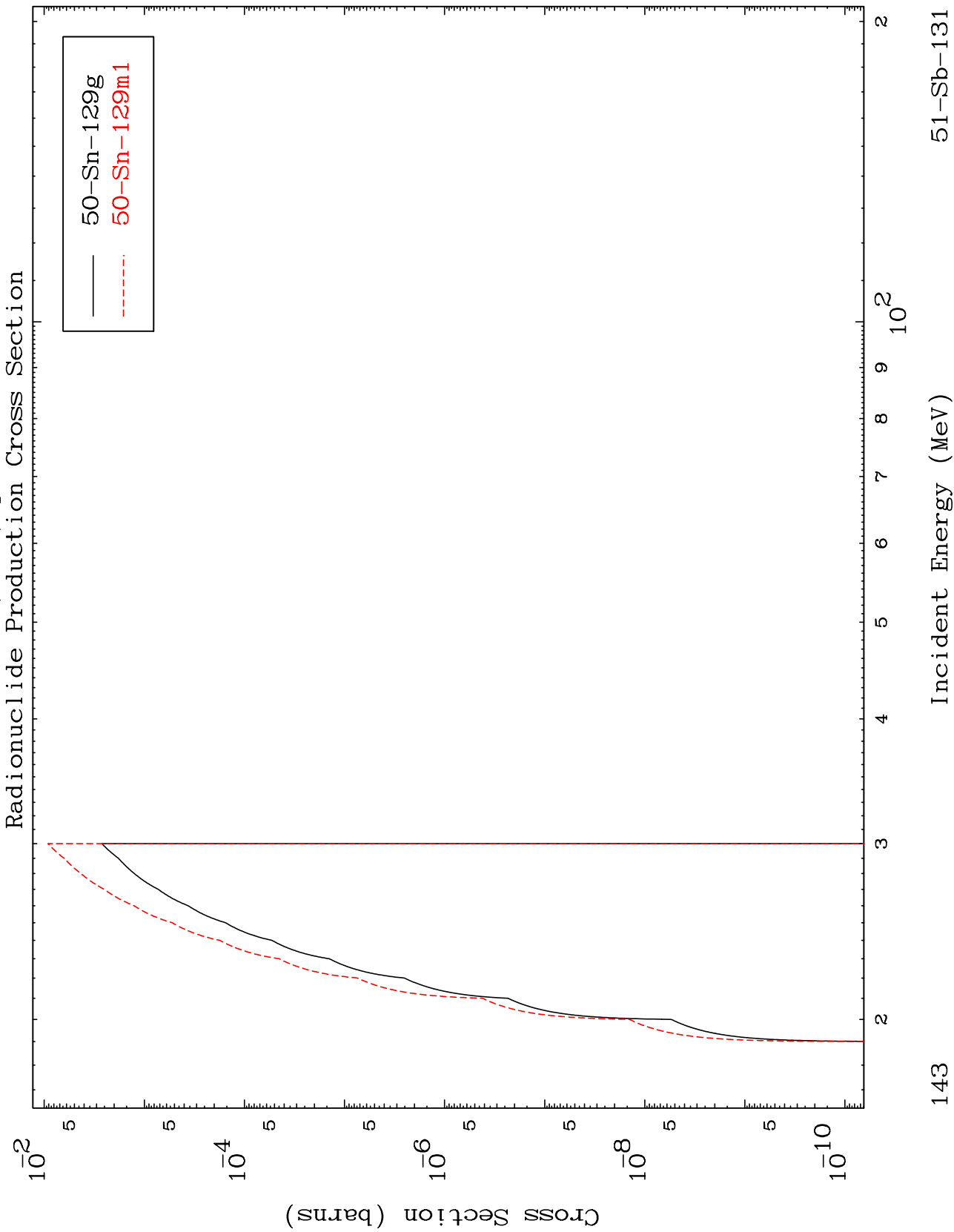
Radionuclide Production Cross Section



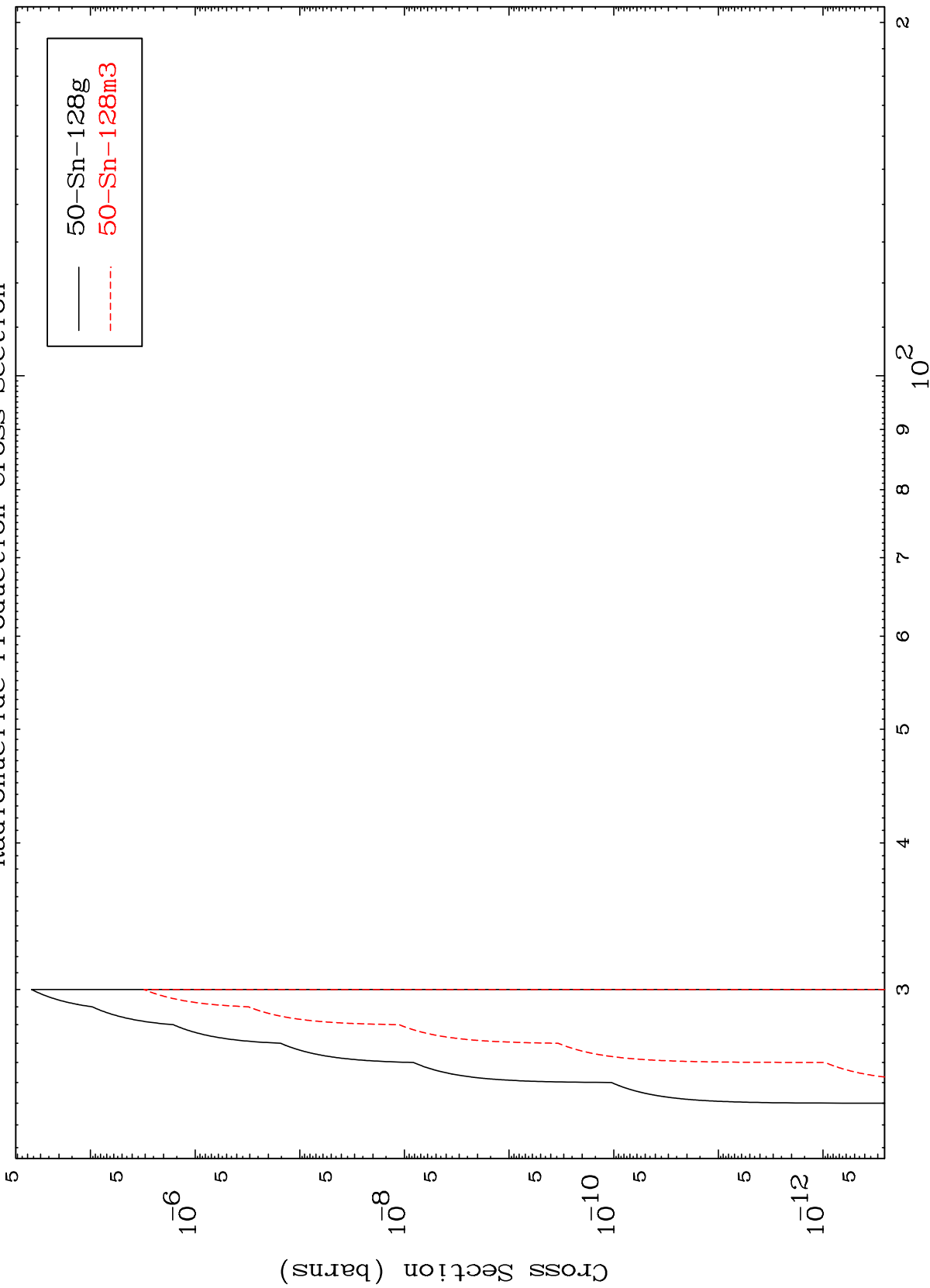
142

Incident Energy (MeV)

51-Sb-131



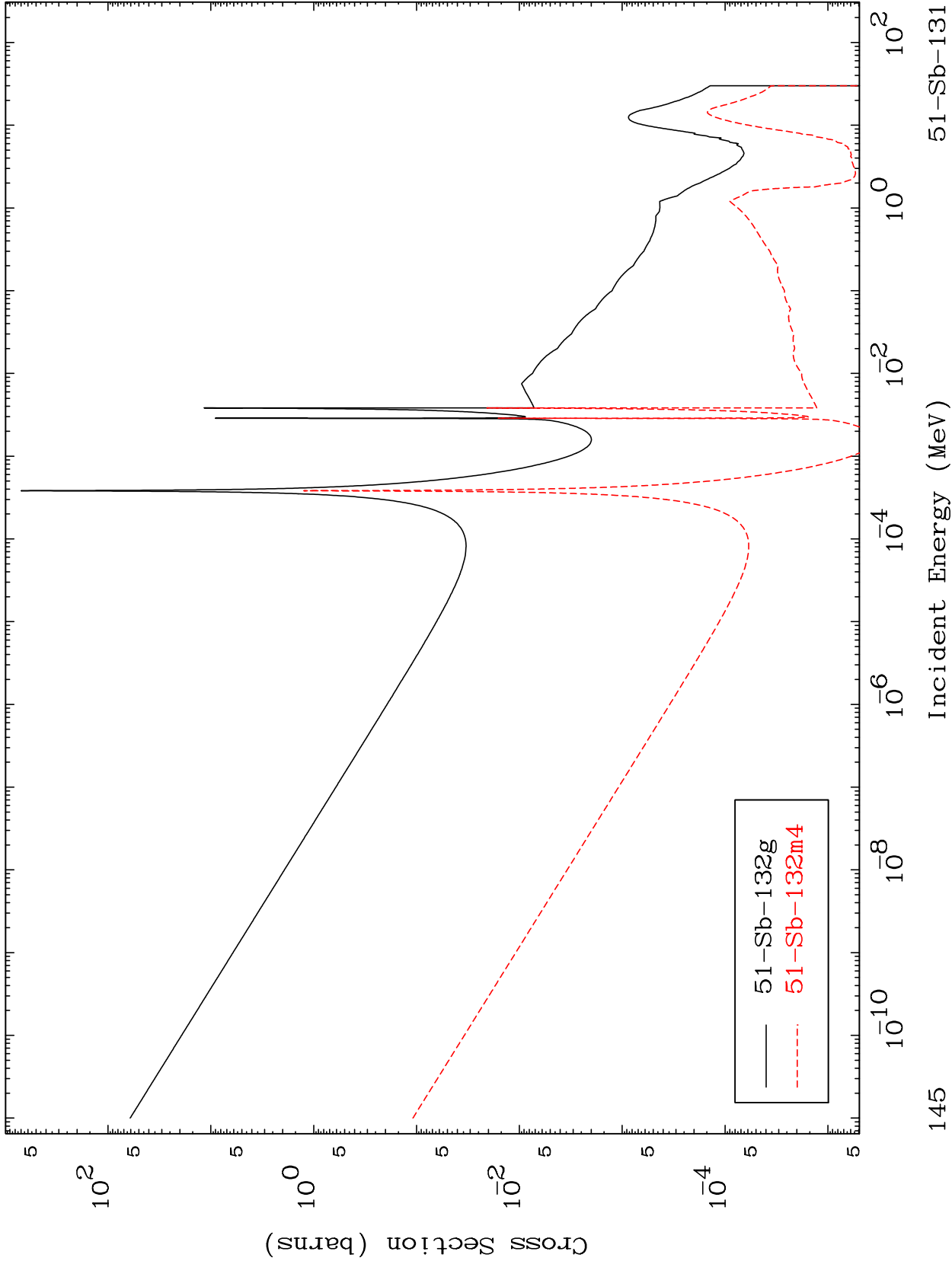
Radionuclide Production Cross Section



MAT 5155

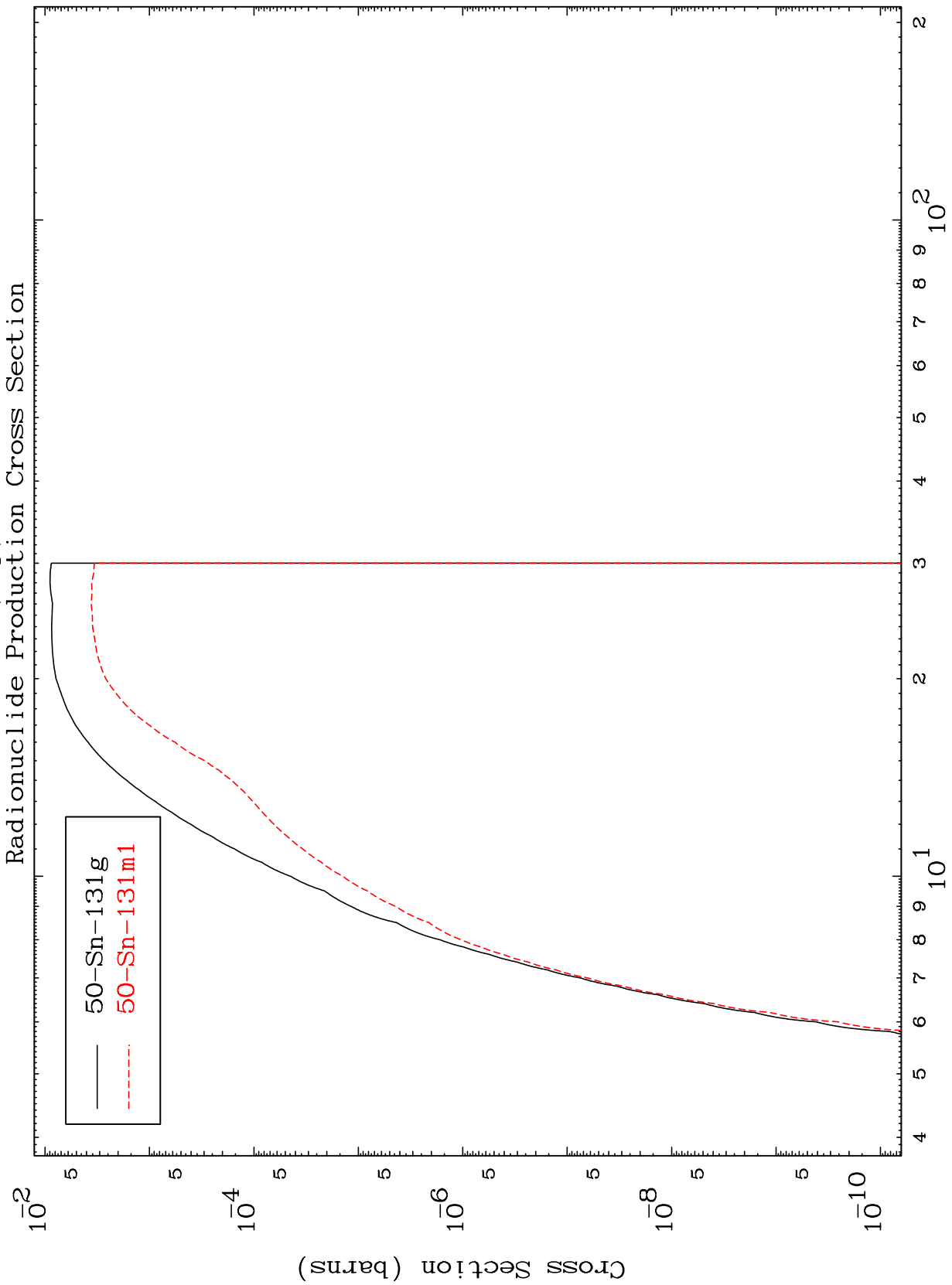
51-Sb-131

(n, γ)
Radionuclide Production Cross Section



MAT 5155

51-Sb-131



146

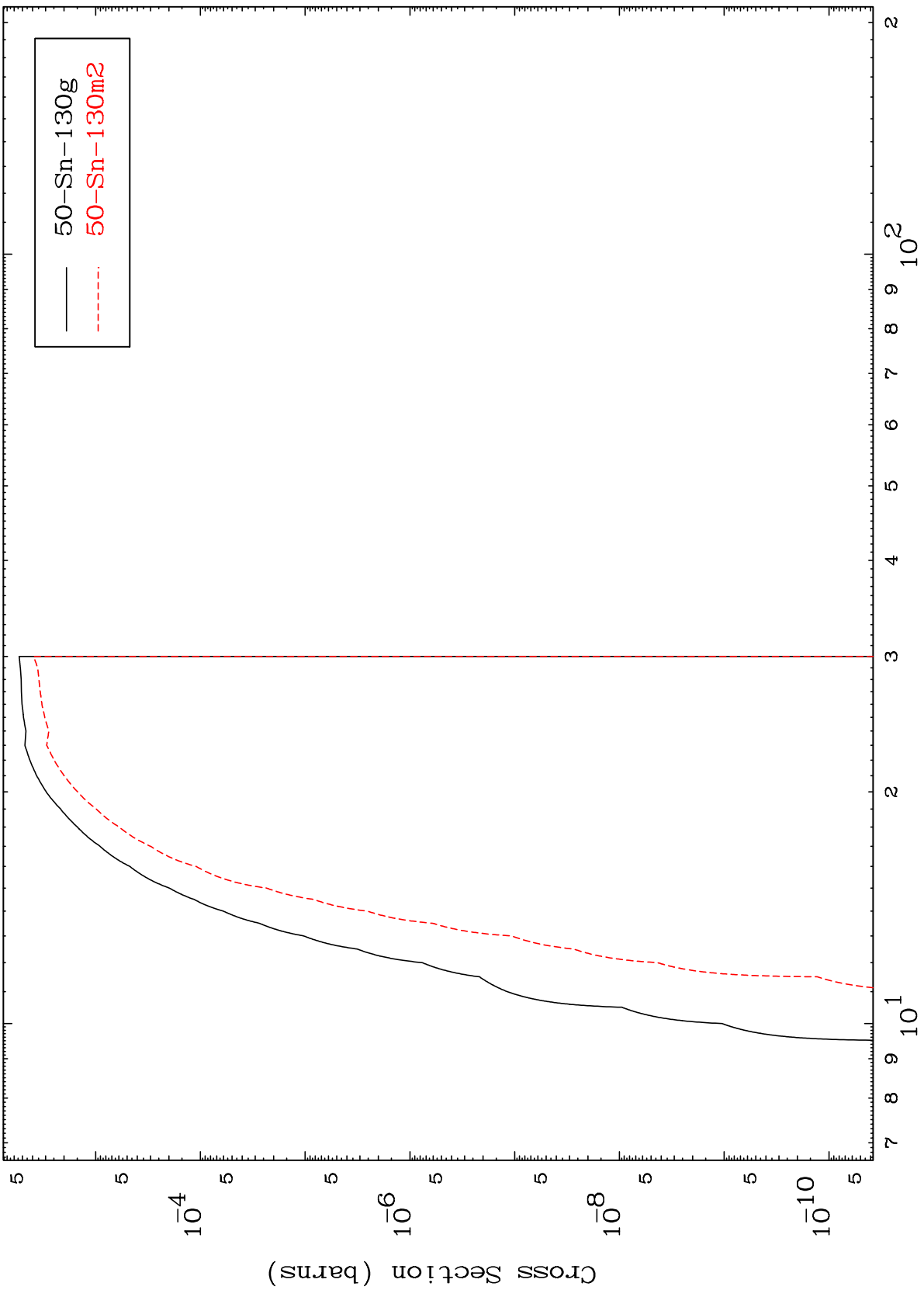
51-Sb-131

MAT 5155

(n,d)

51-Sb-131

Radionuclide Production Cross Section



147

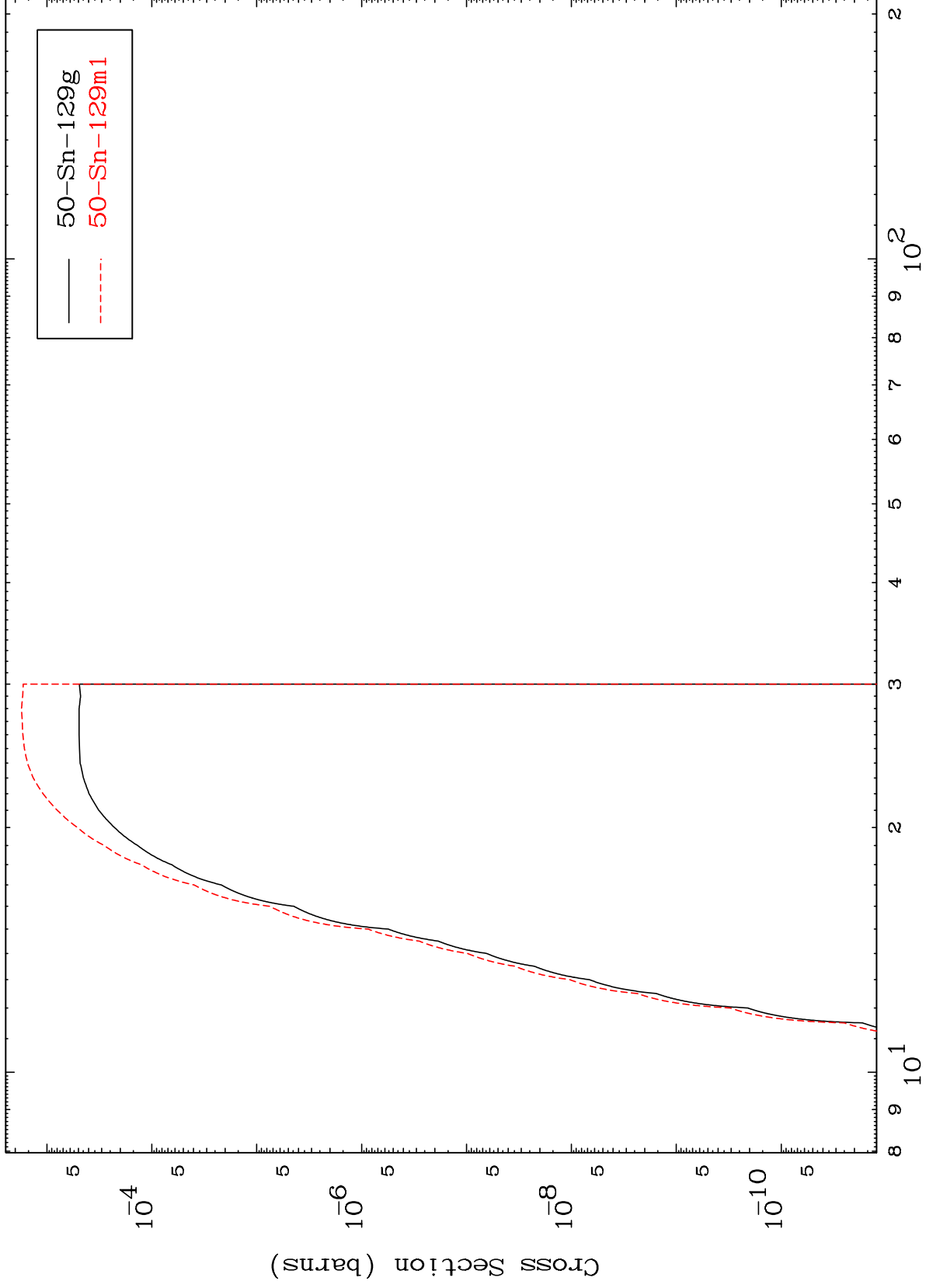
Incident Energy (MeV)

51-Sb-131

MAT 5155

51-Sb-131

(n,t)
Radionuclide Production Cross Section

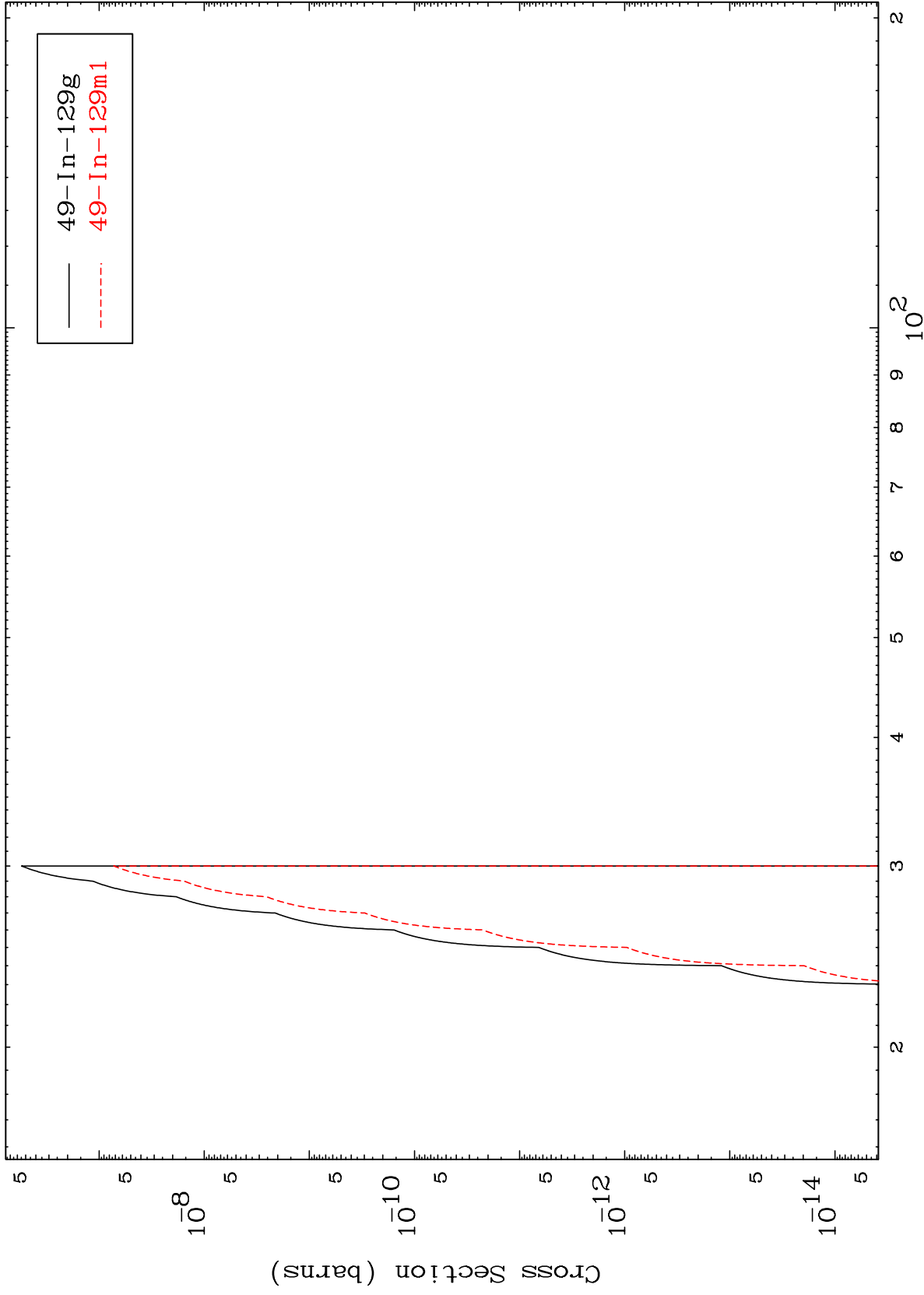


51-Sb-131

Incident Energy (MeV)

148

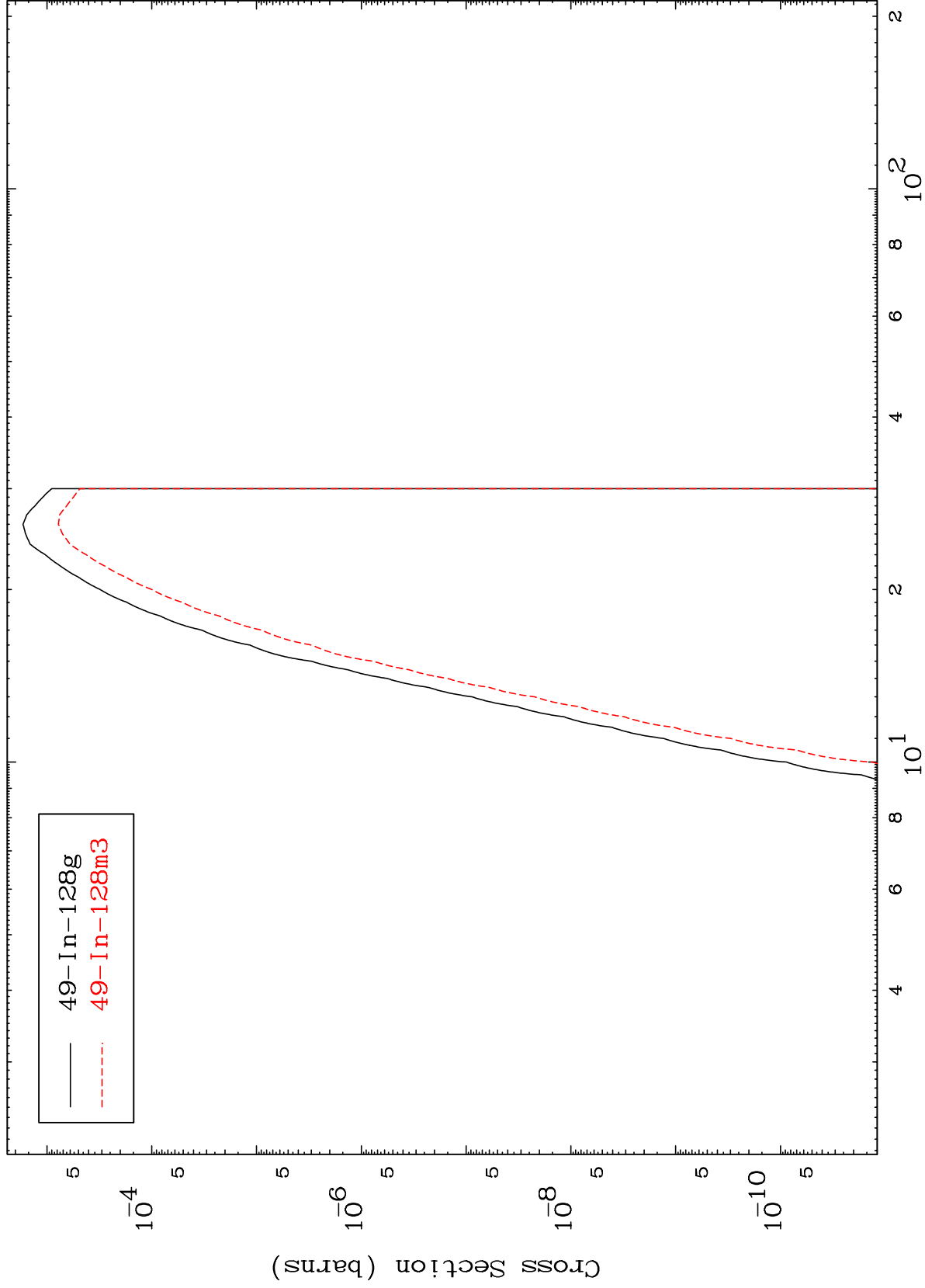
Radionuclide Production Cross Section



MAT 5155

51-Sb-131

Radionuclide Production Cross Section
(n, α)



— 49-In-128g
- - - 49-In-128m3

150

51-Sb-131

Incident Energy (MeV)