

Program EVALPLOT
(Version 2018-1)

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

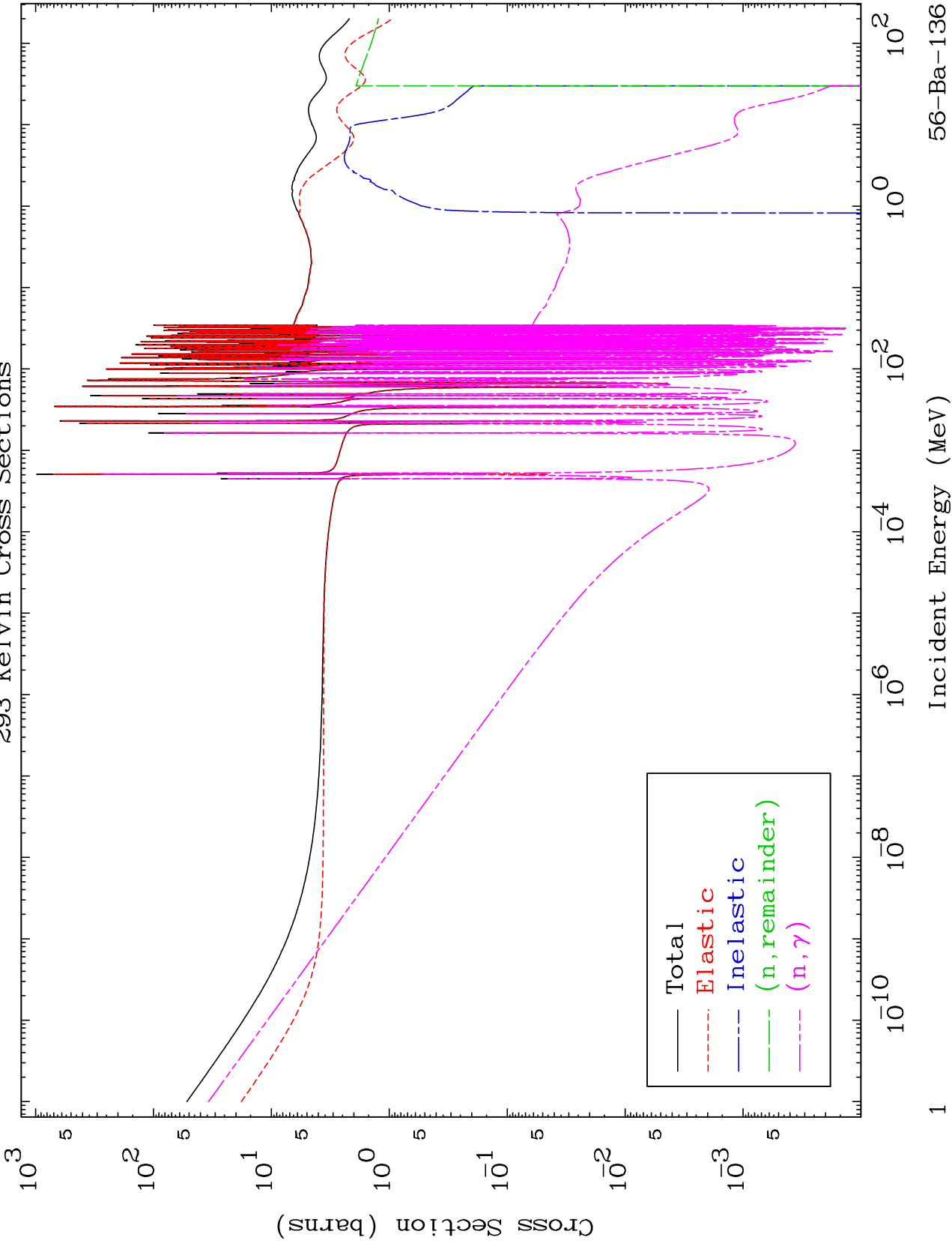
Press Mouse Button to Start

MAT 5643

Major

293 Kelvin Cross Sections

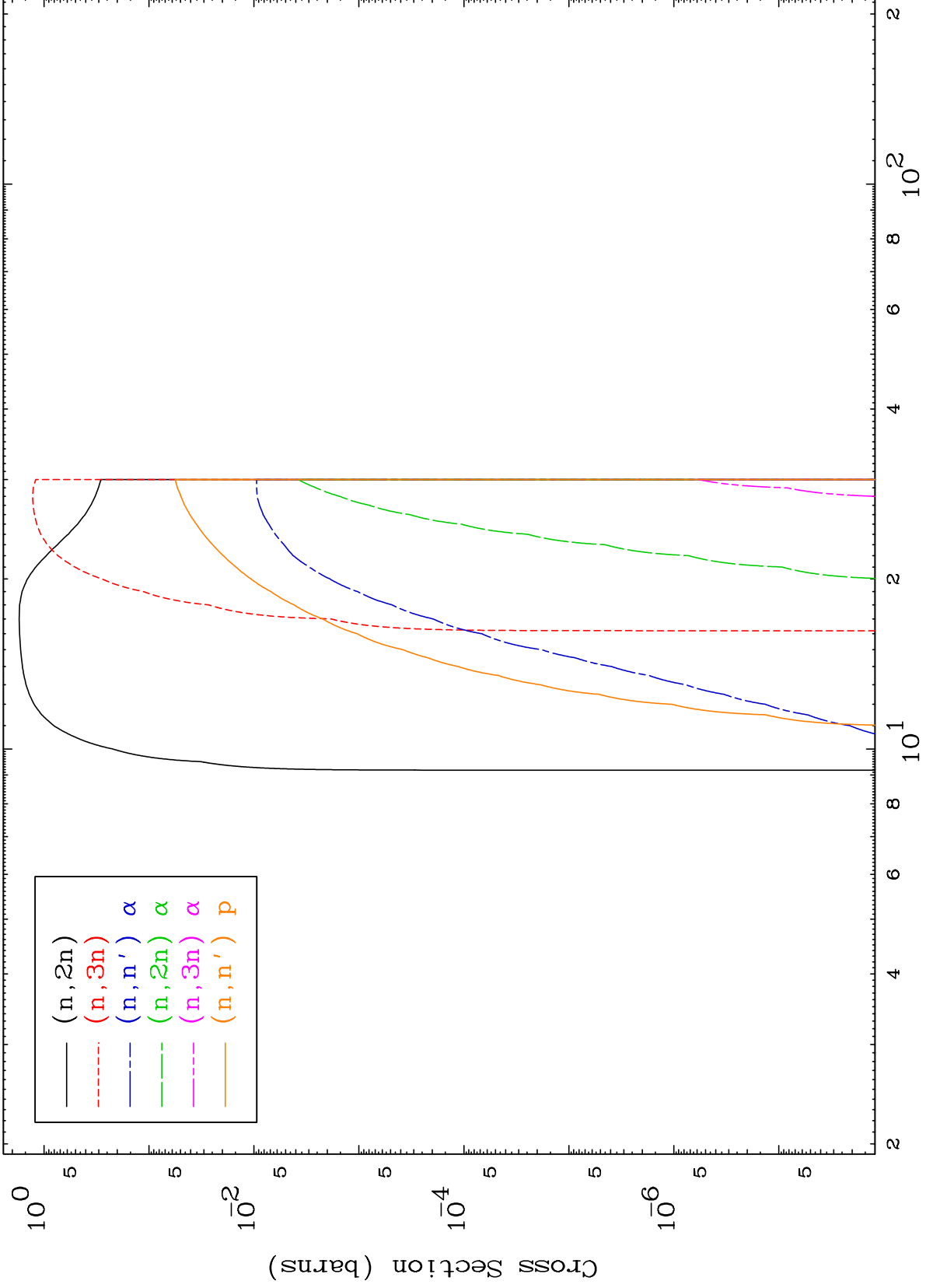
56-Ba-136

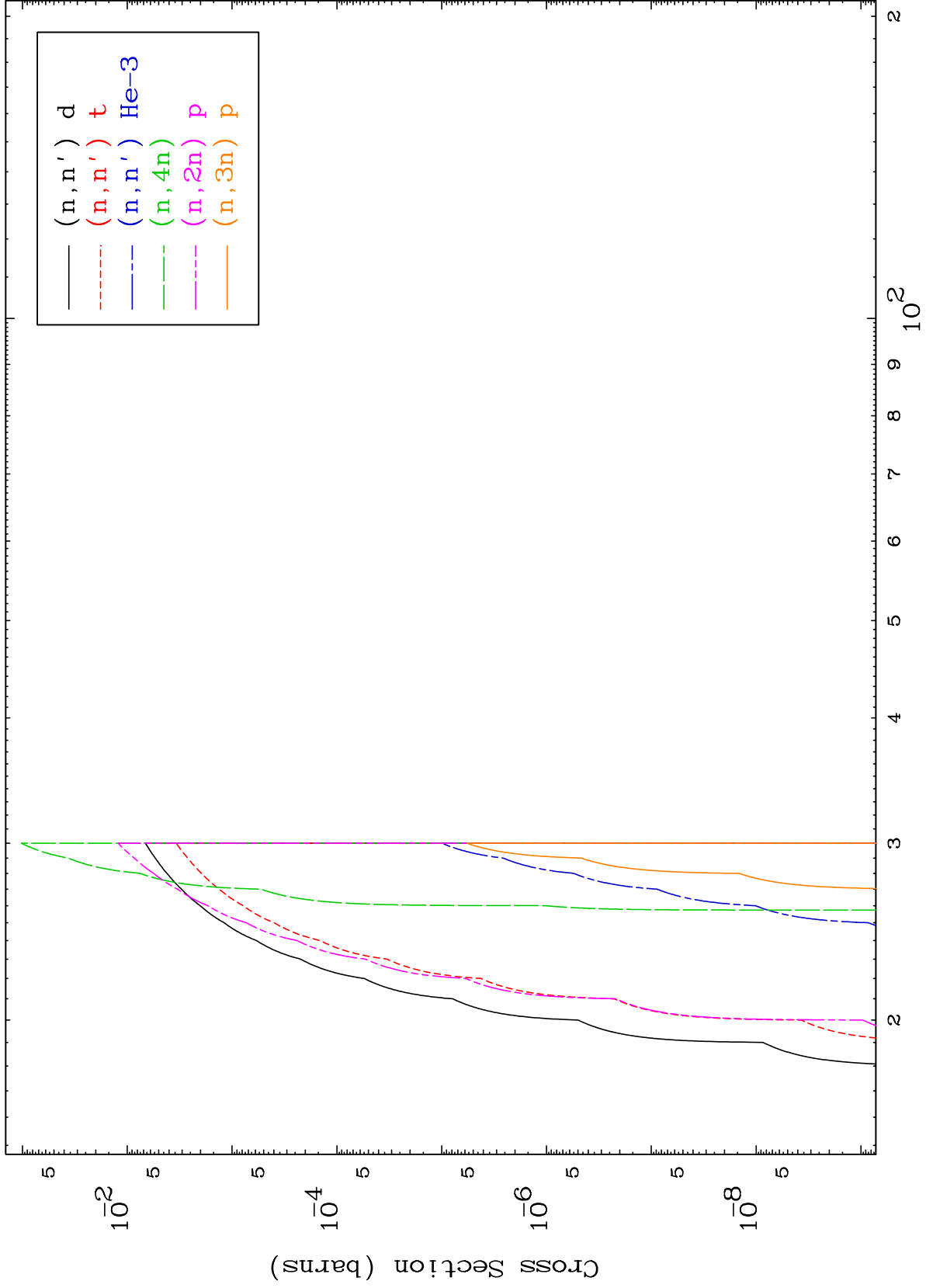


MAT 5643

Neutron Production
293 Kelvin Cross Sections

56-Ba-136

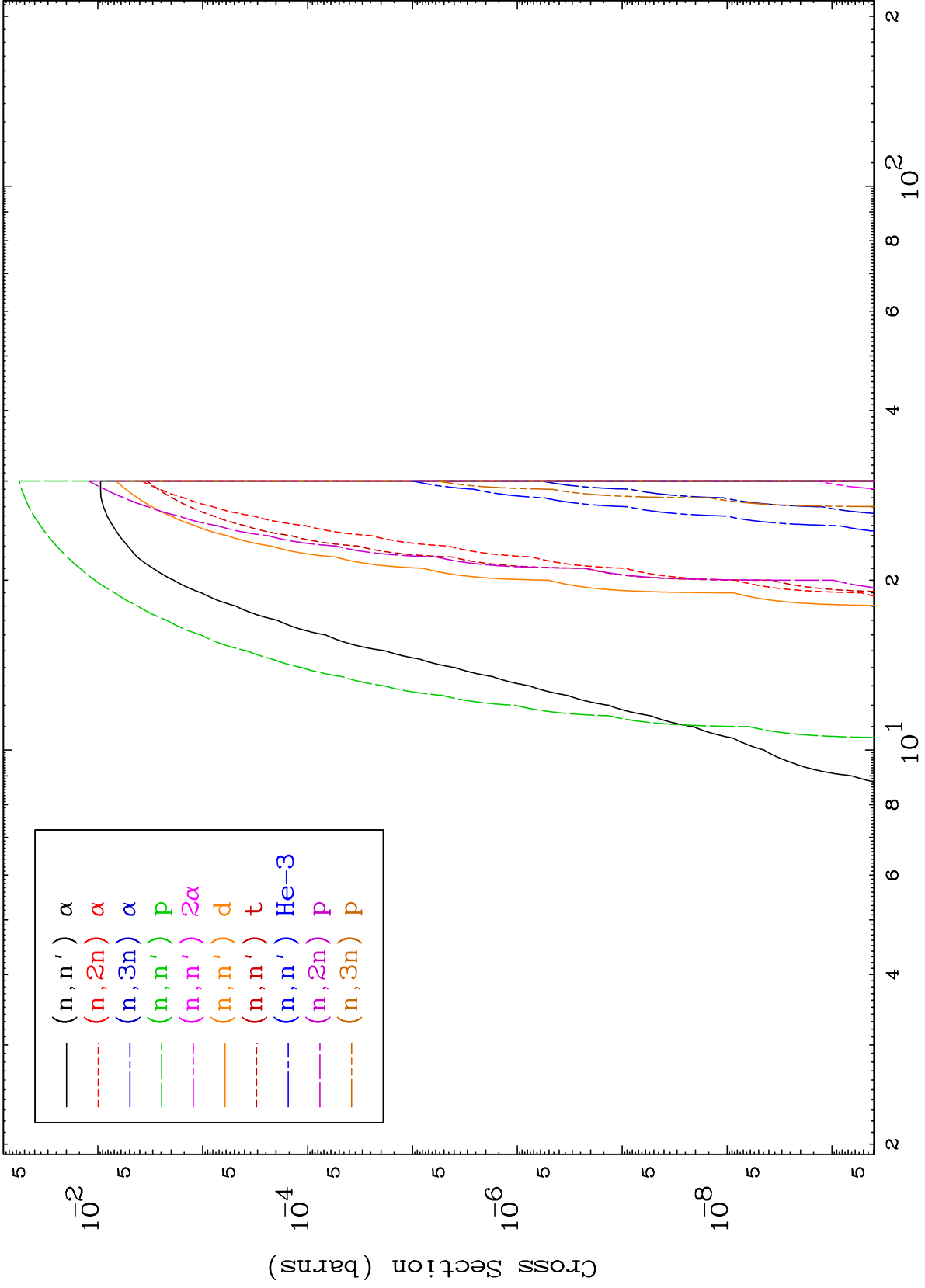




MAT 5643

Charged Particle
293 Kelvin Cross Sections

56-Ba-136



4

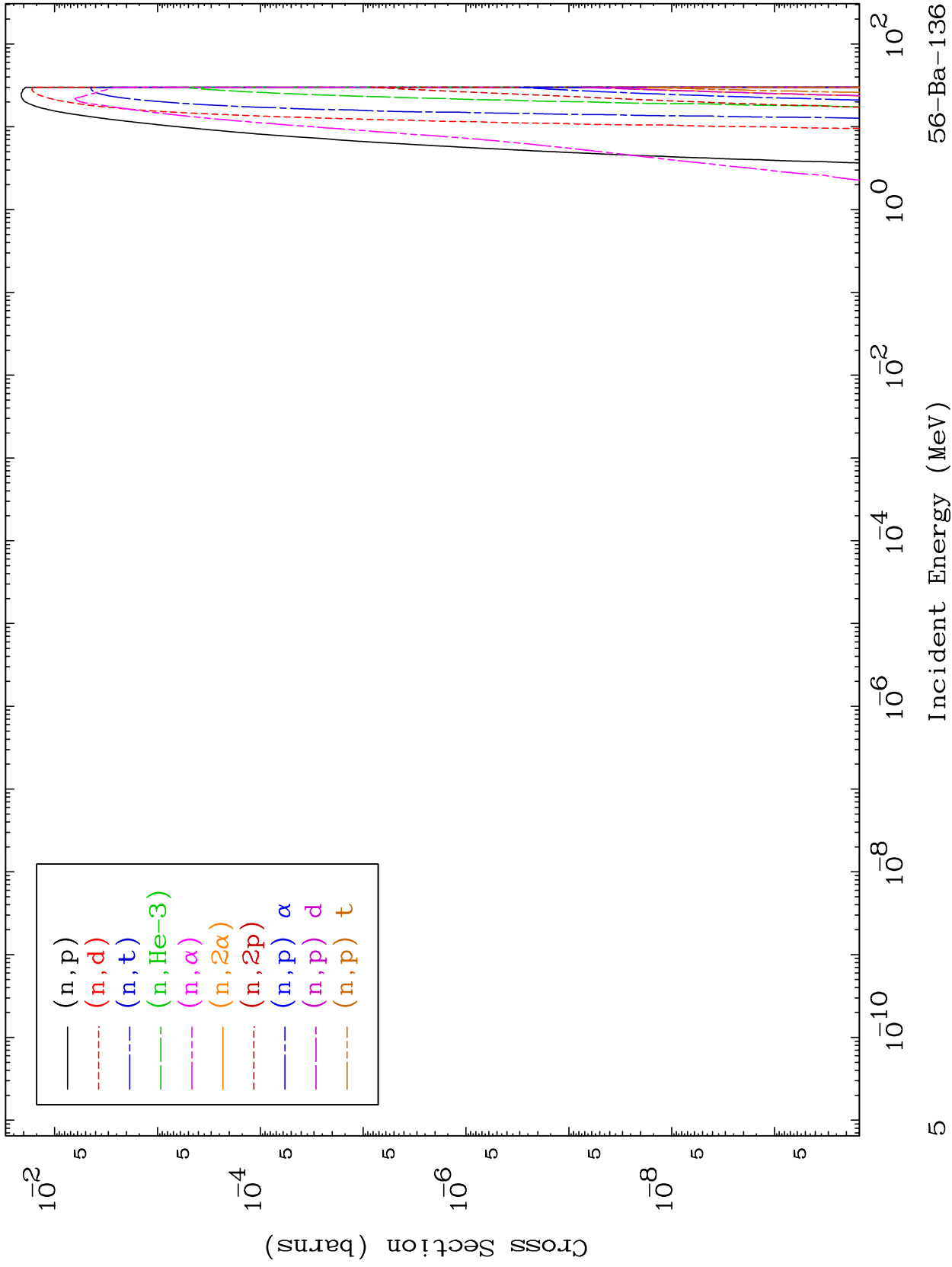
Incident Energy (MeV)

56-Ba-136

MAT 5643

Charged Particle
293 Kelvin Cross Sections

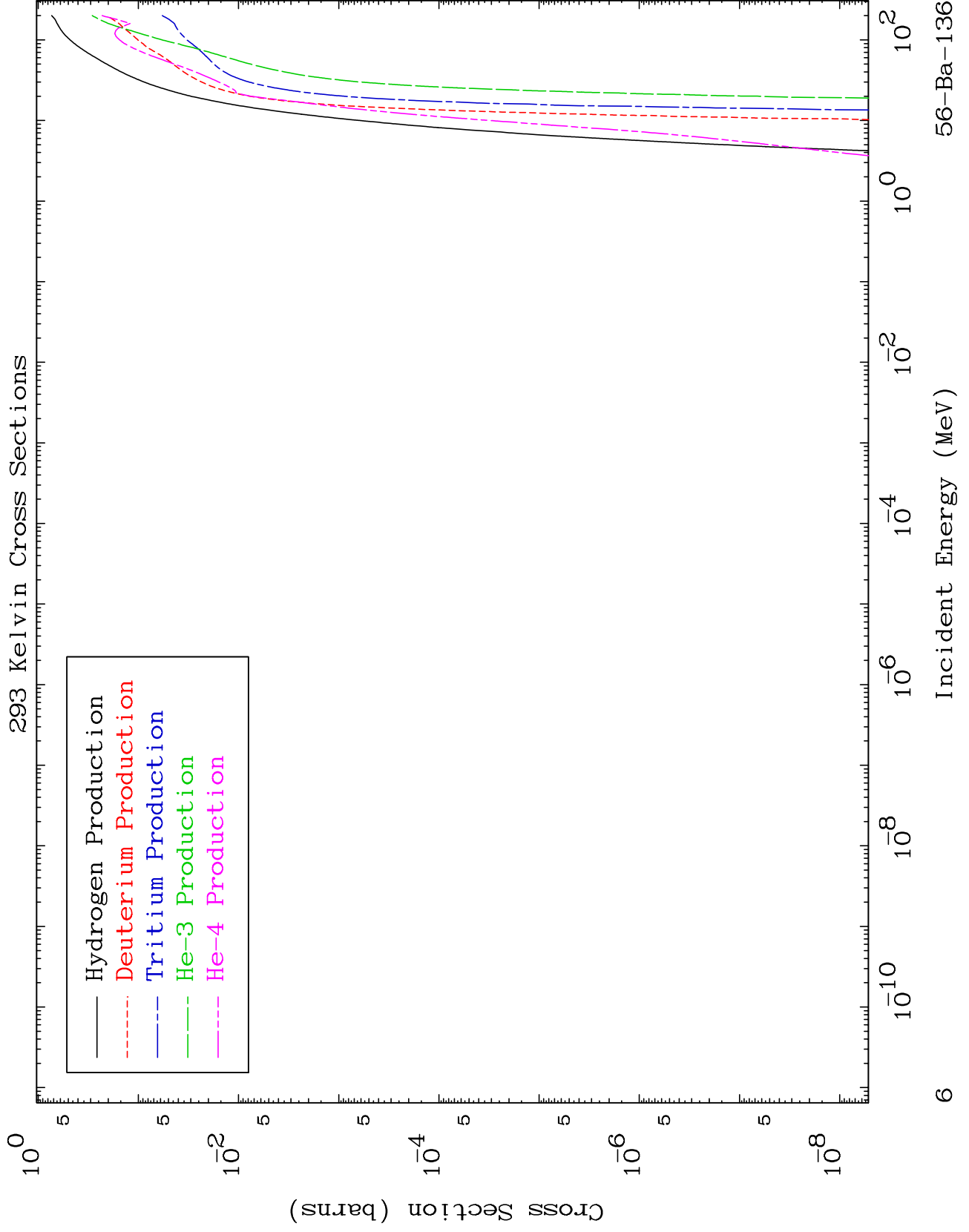
56-Ba-136



MAT 5643

Particle Production
293 Kelvin Cross Sections

56-Ba-136

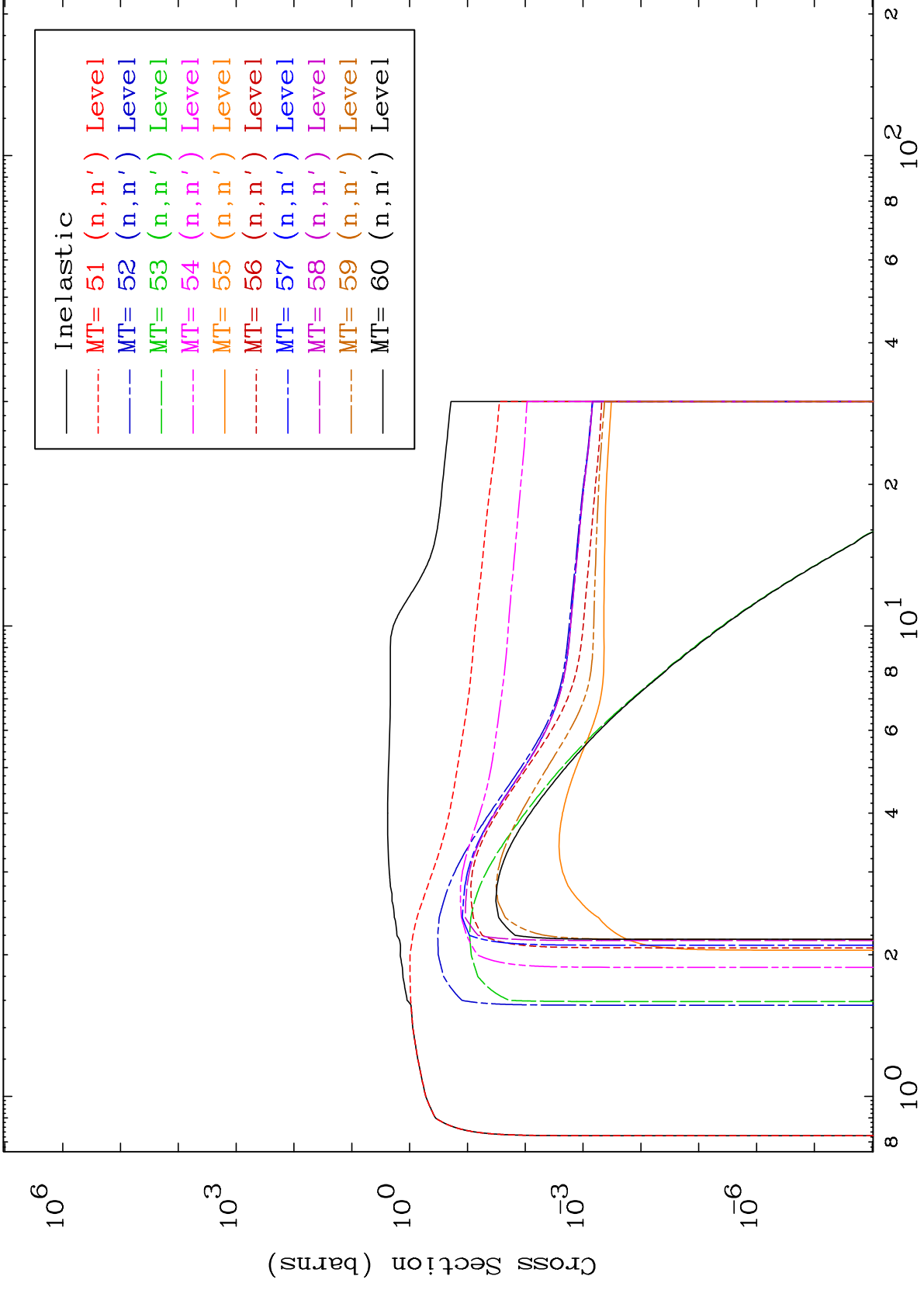


MAT 5643

(n,n') Level

56-Ba-136

293 Kelvin Cross Sections



Incident Energy (MeV)

56-Ba-136

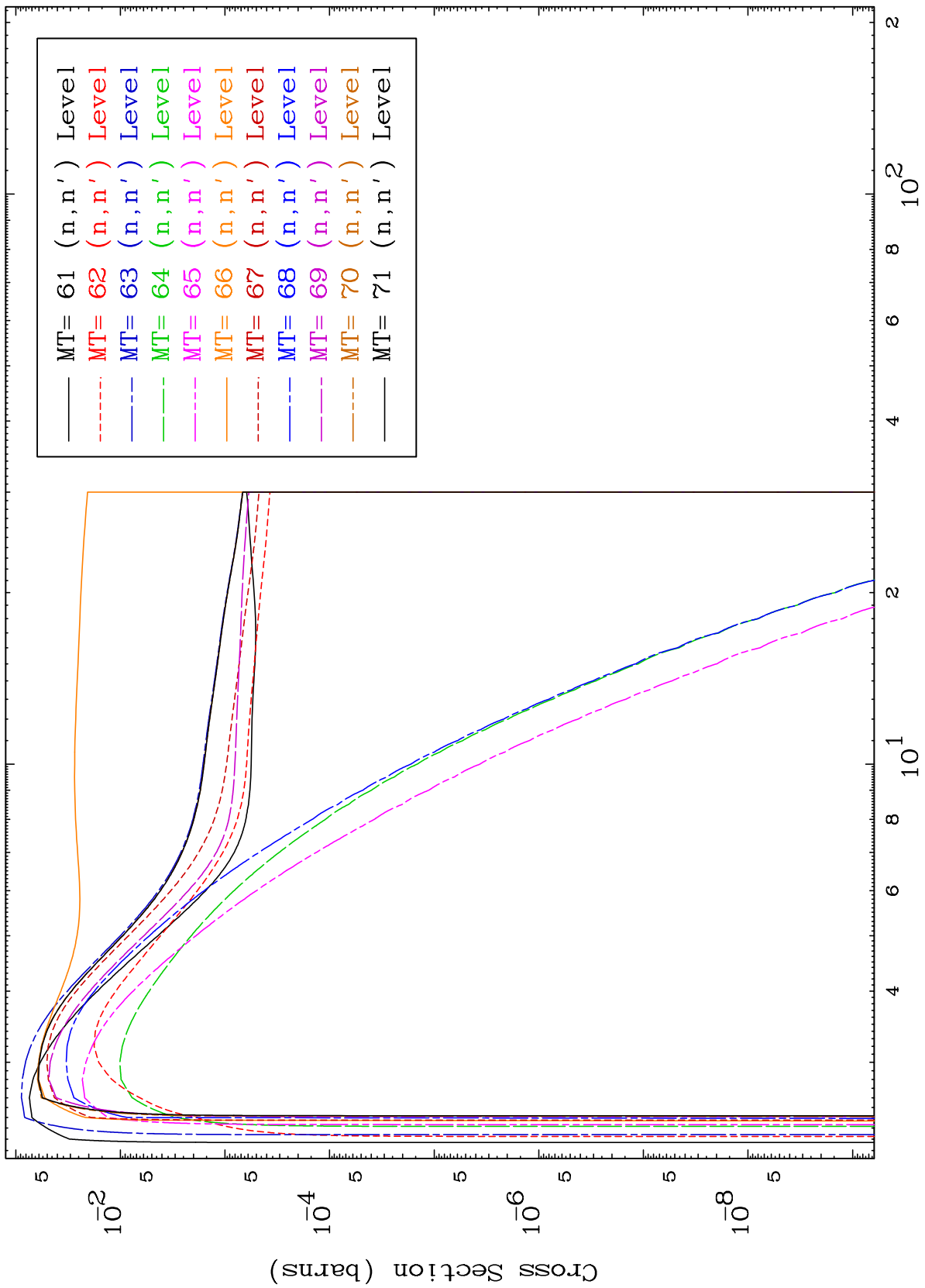
7

MAT 5643

(n,n') Level

56-Ba-136

293 Kelvin Cross Sections

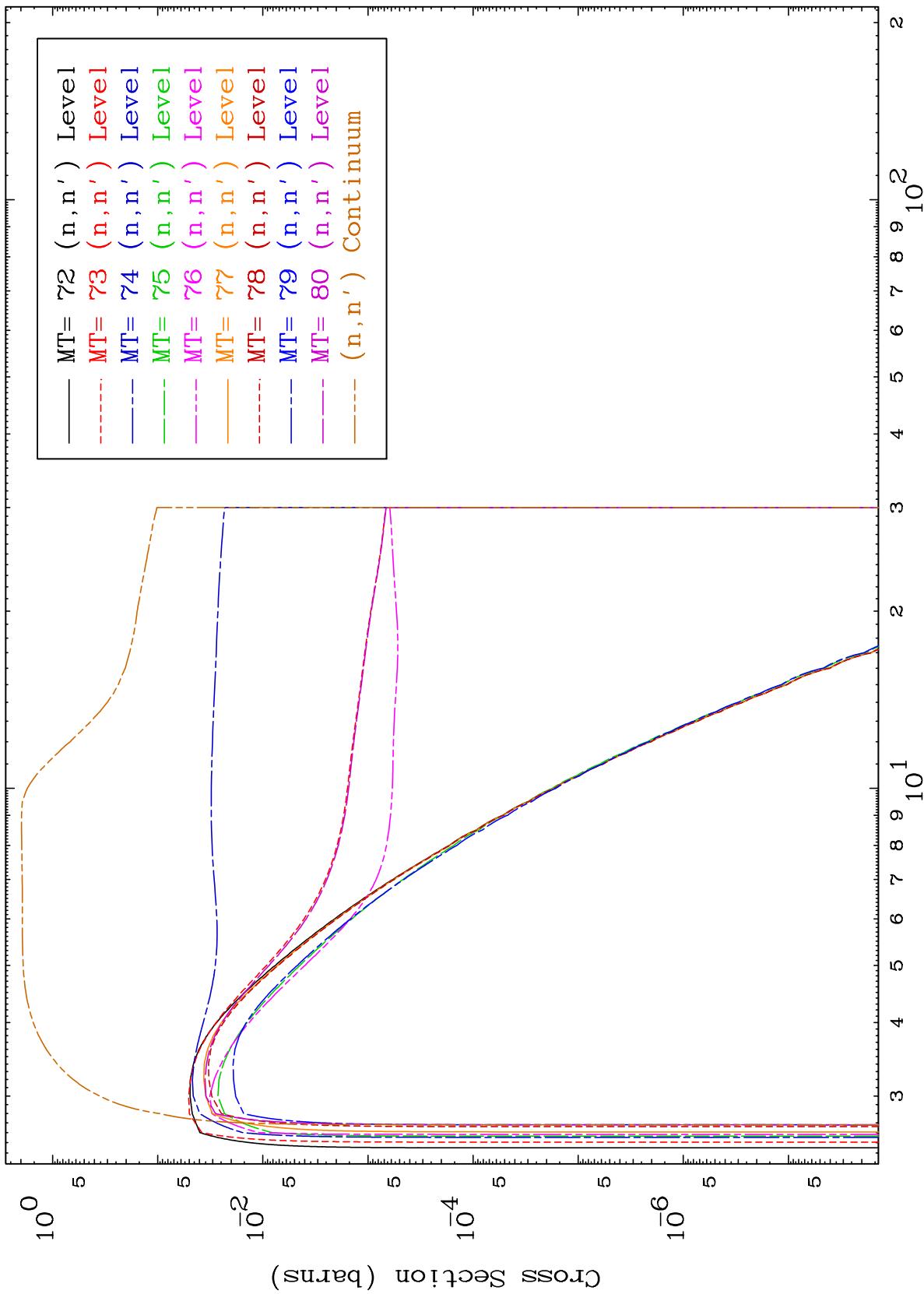


8

Incident Energy (MeV)

56-Ba-136

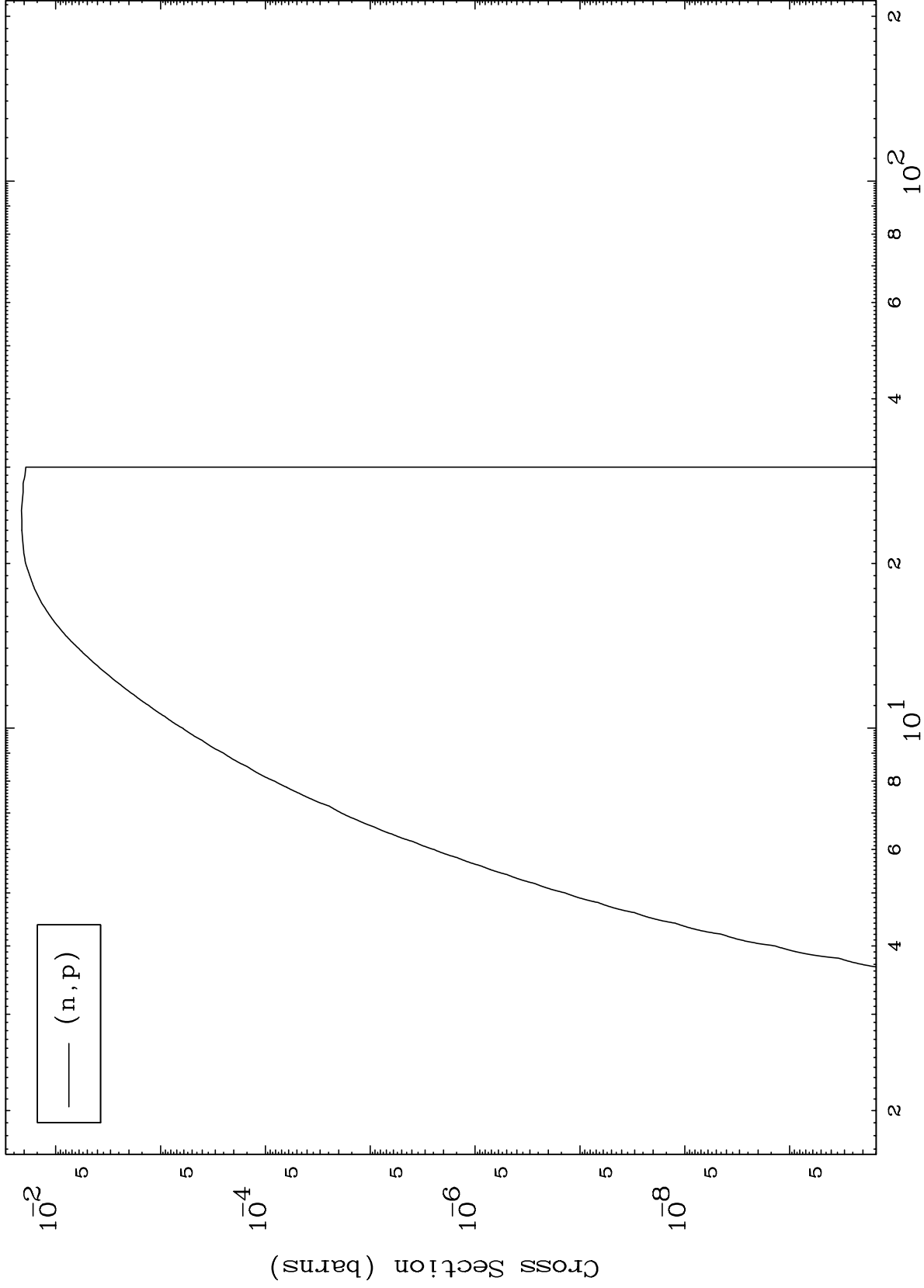
293 Kelvin Cross Sections



MAT 5643

(n,p) Levels
293 Kelvin Cross Sections

56-Ba-136



10

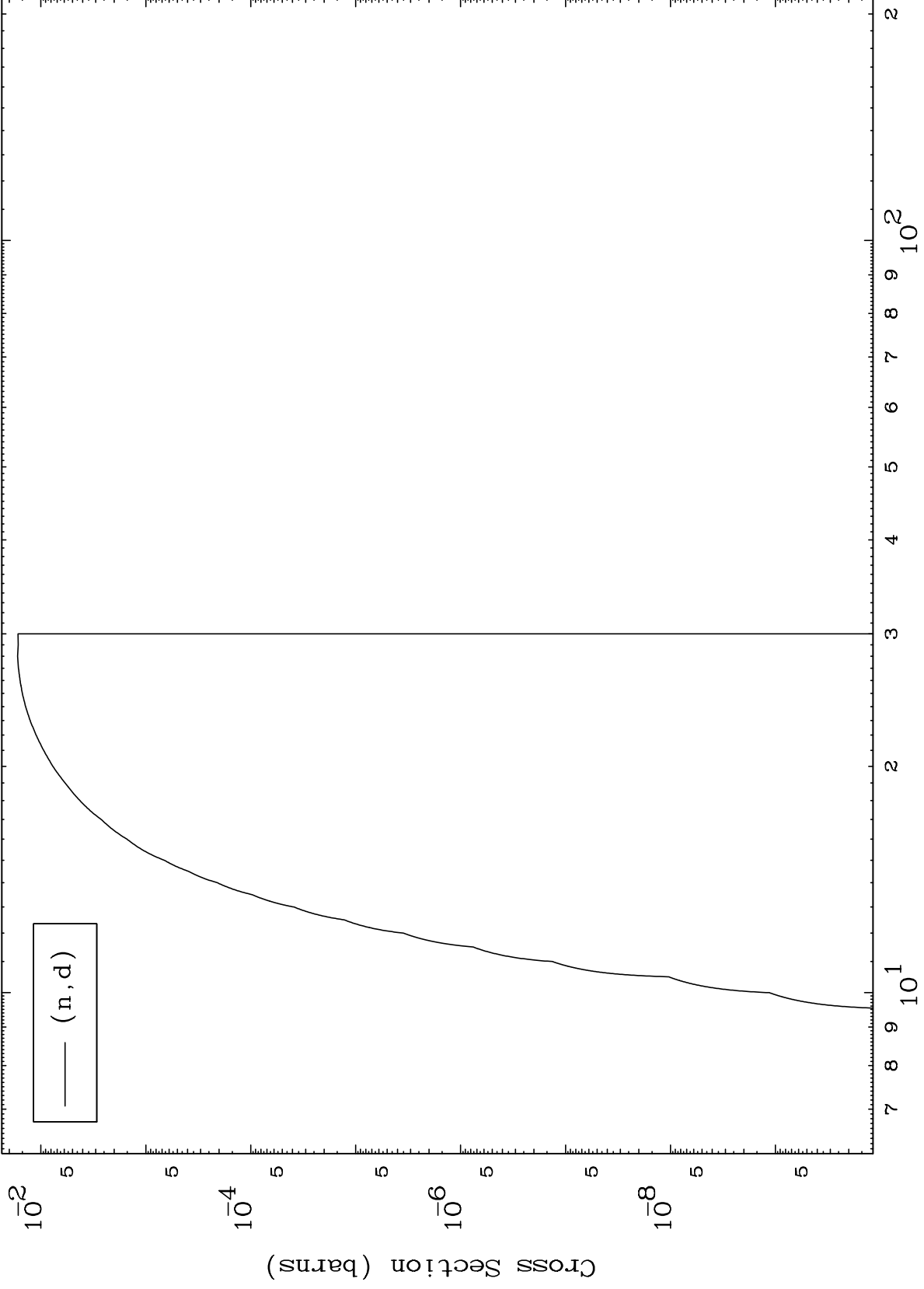
Incident Energy (MeV)

56-Ba-136

MAT 5643

(n,d) Levels
293 Kelvin Cross Sections

56-Ba-136



11

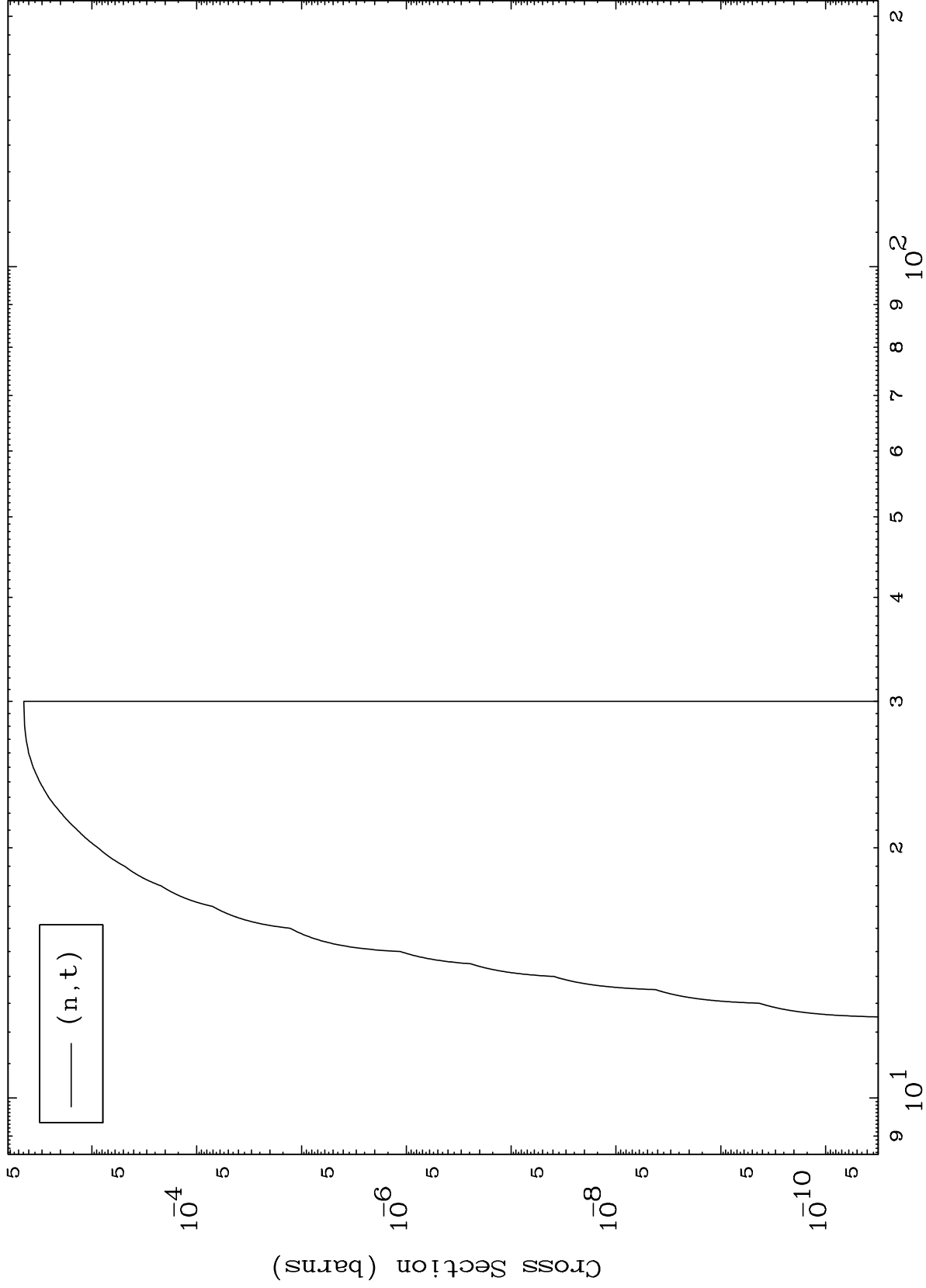
Incident Energy (MeV)

56-Ba-136

MAT 5643

(n,t) Levels
293 Kelvin Cross Sections

56-Ba-136



Incident Energy (MeV)

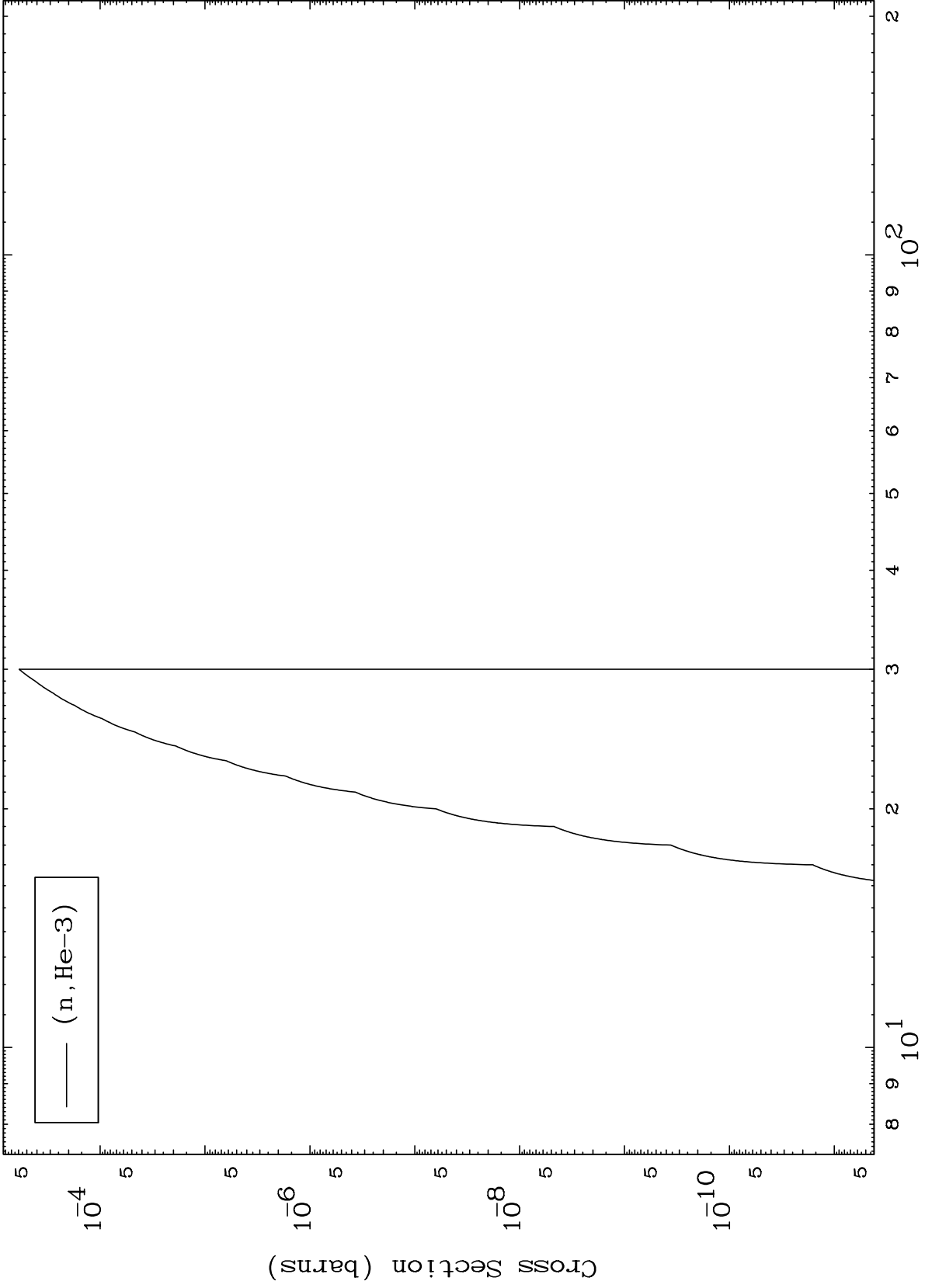
56-Ba-136

12

MAT 5643

(n,He3) Levels
293 Kelvin Cross Sections

56-Ba-136



13

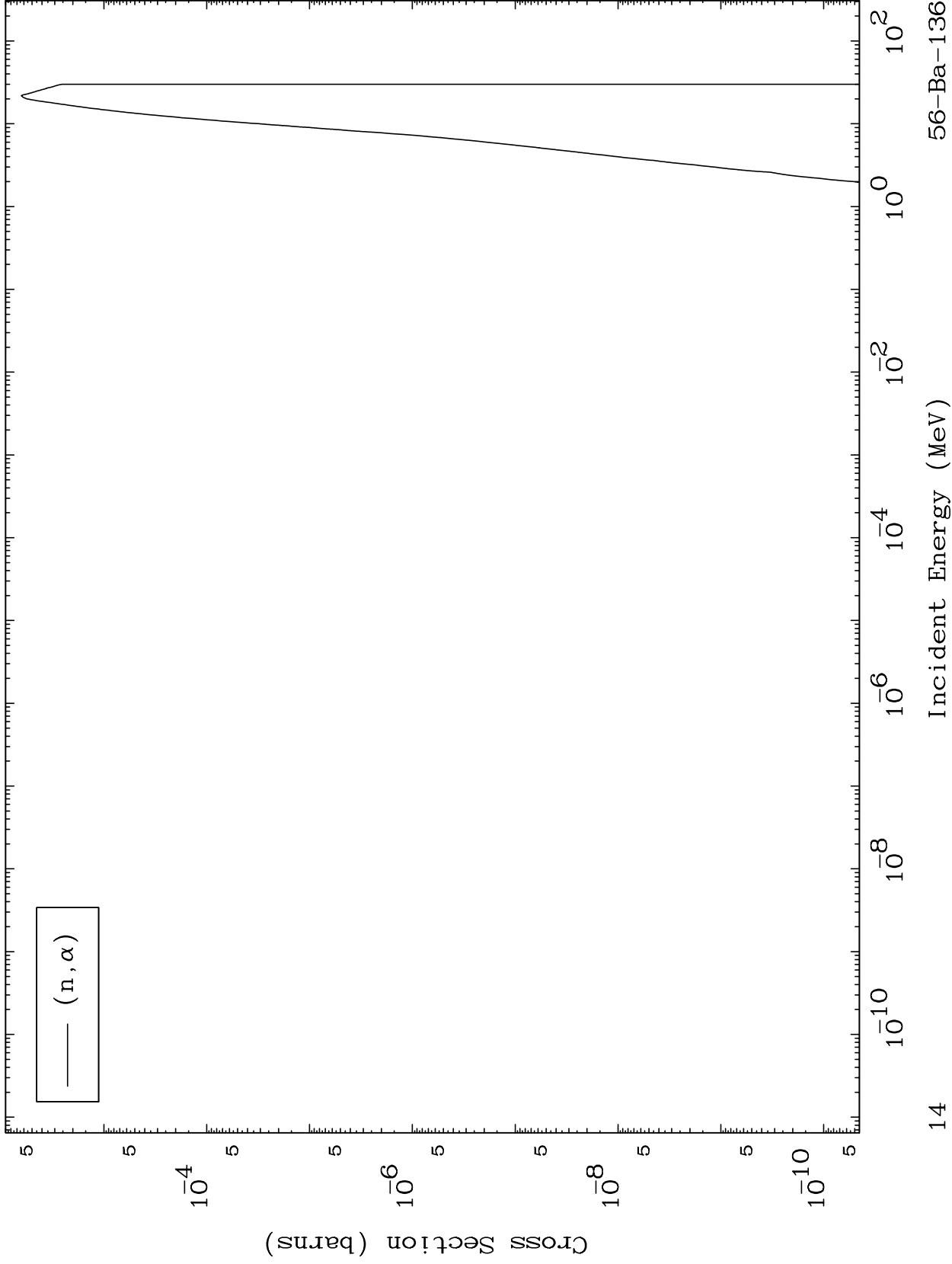
Incident Energy (MeV)

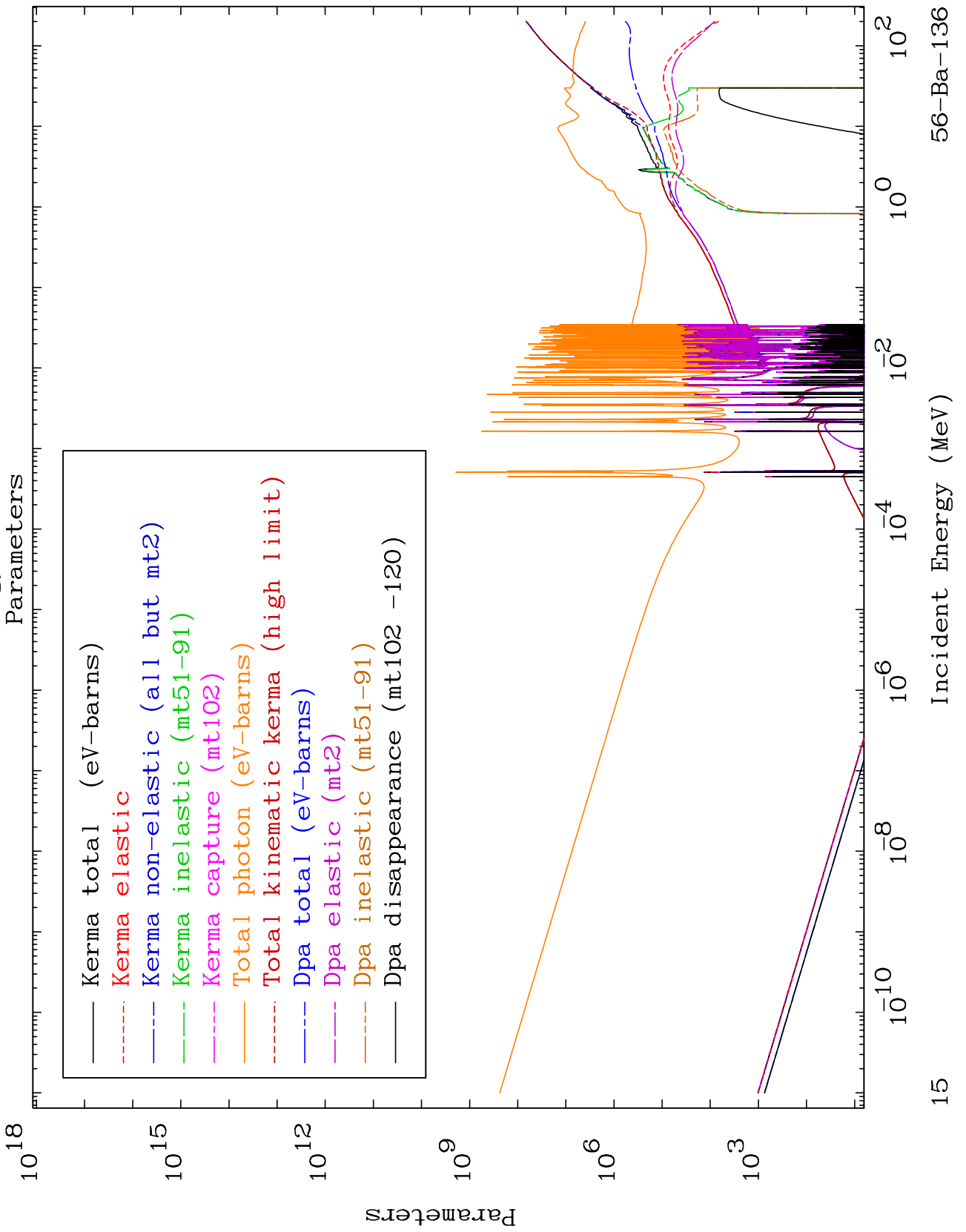
56-Ba-136

MAT 5643

(n, α) Levels
293 Kelvin Cross Sections

56-Ba-136

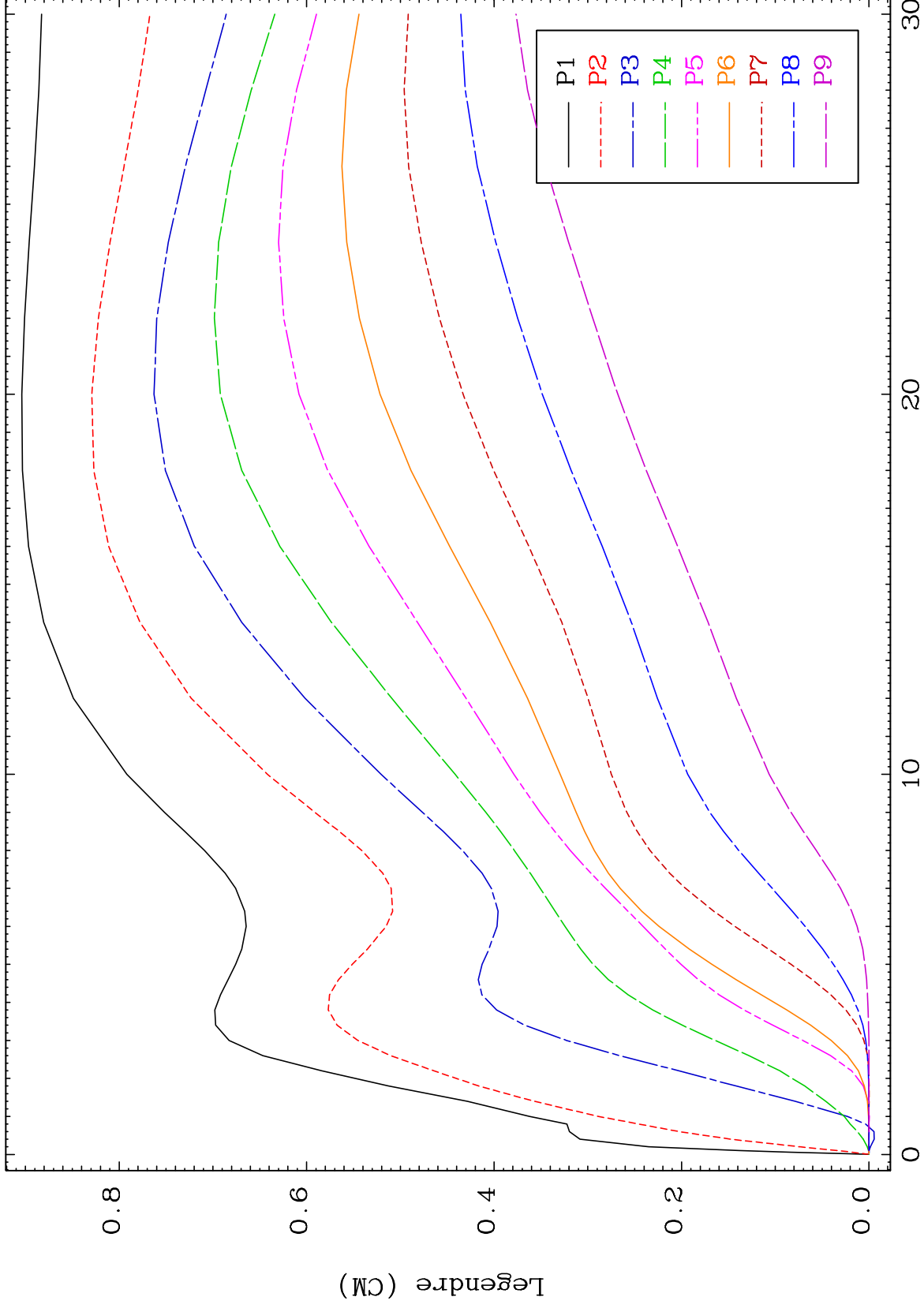




MAT 5643

56-Ba-136

Elastic Legendre Coefficients



56-Ba-136

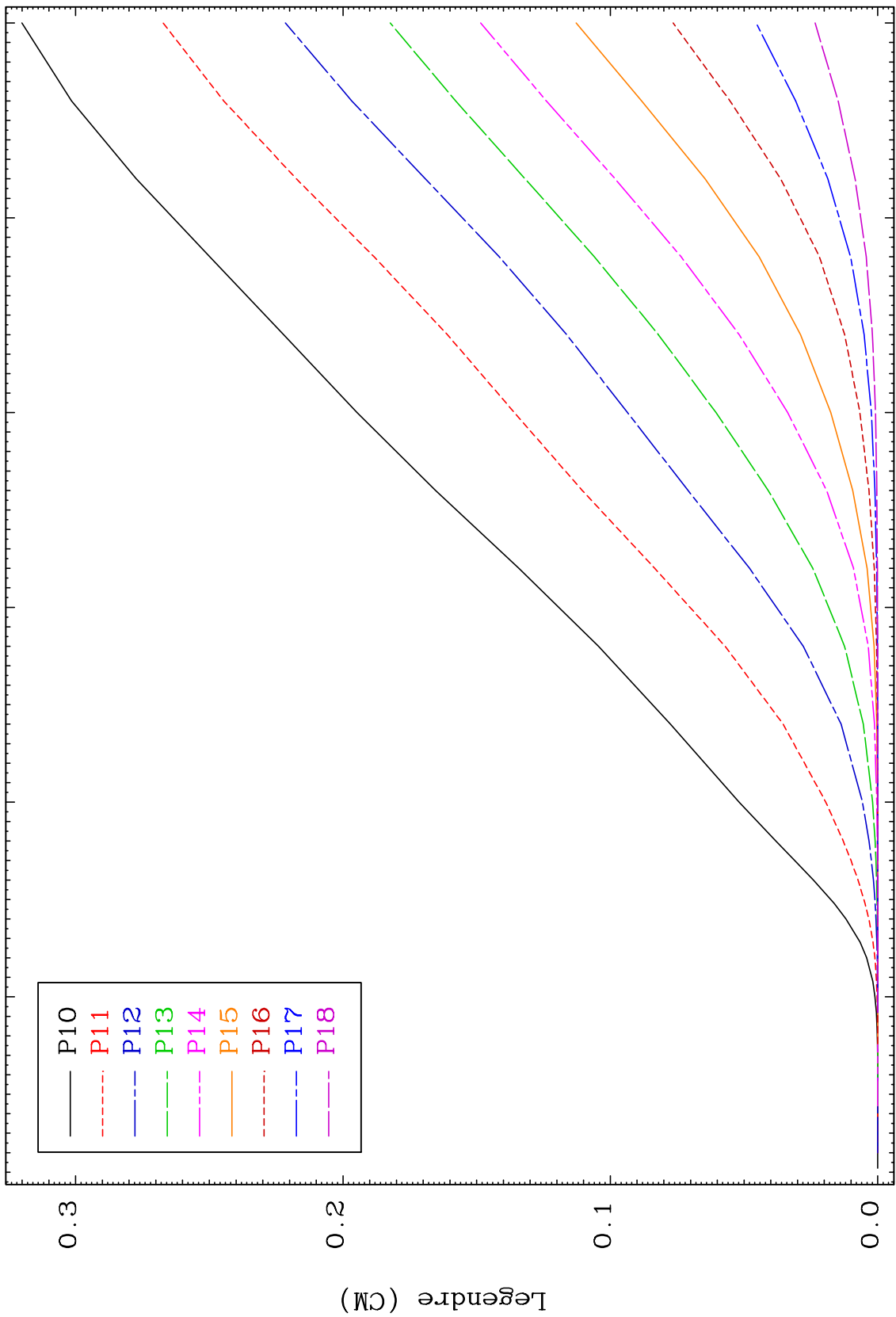
Incident Energy (MeV)

16

MAT 5643

Elastic Legendre Coefficients

56-Ba-136



17

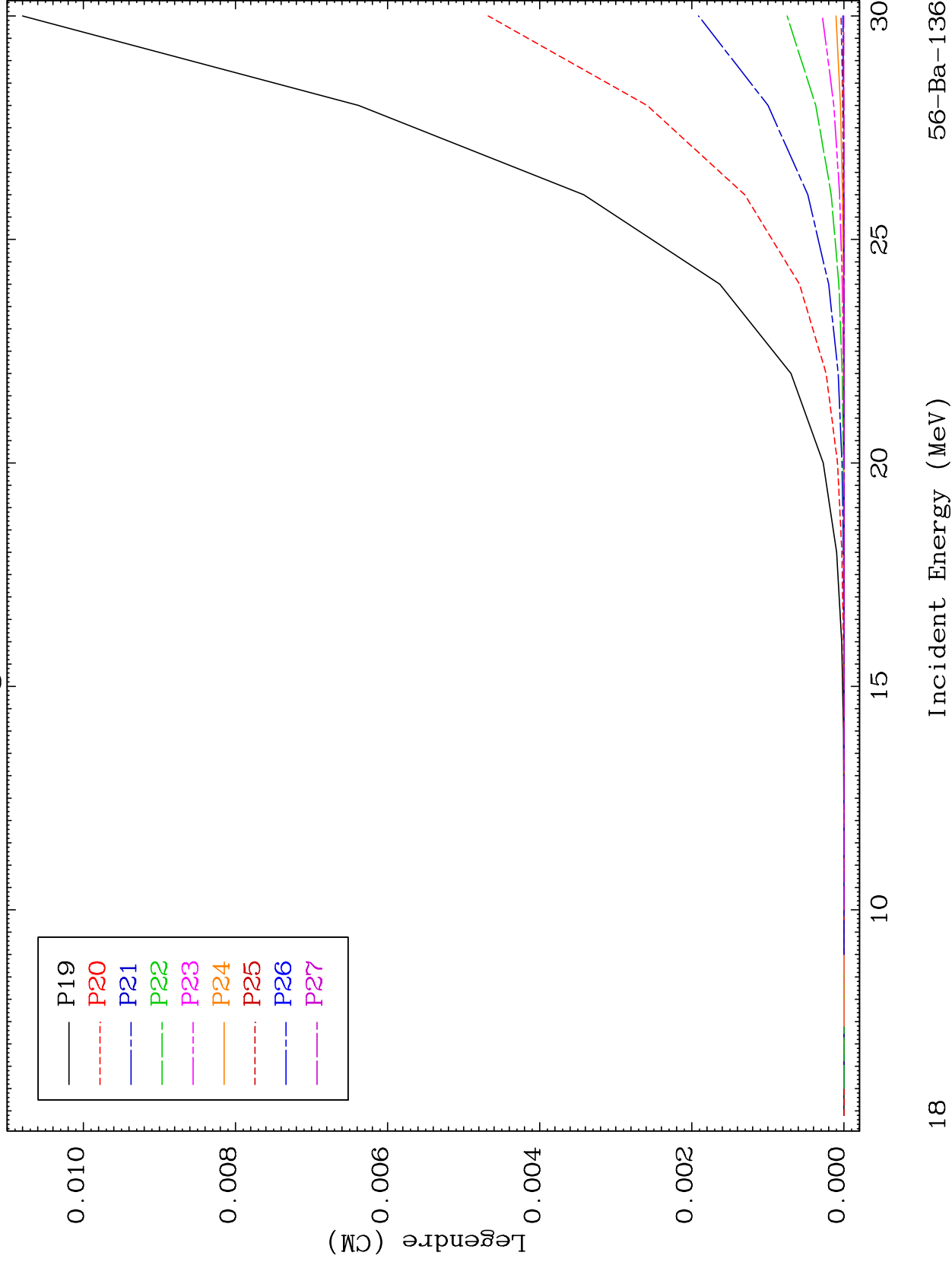
56-Ba-136

Incident Energy (MeV)

MAT 5643

Elastic Legendre Coefficients

56-Ba-136



18

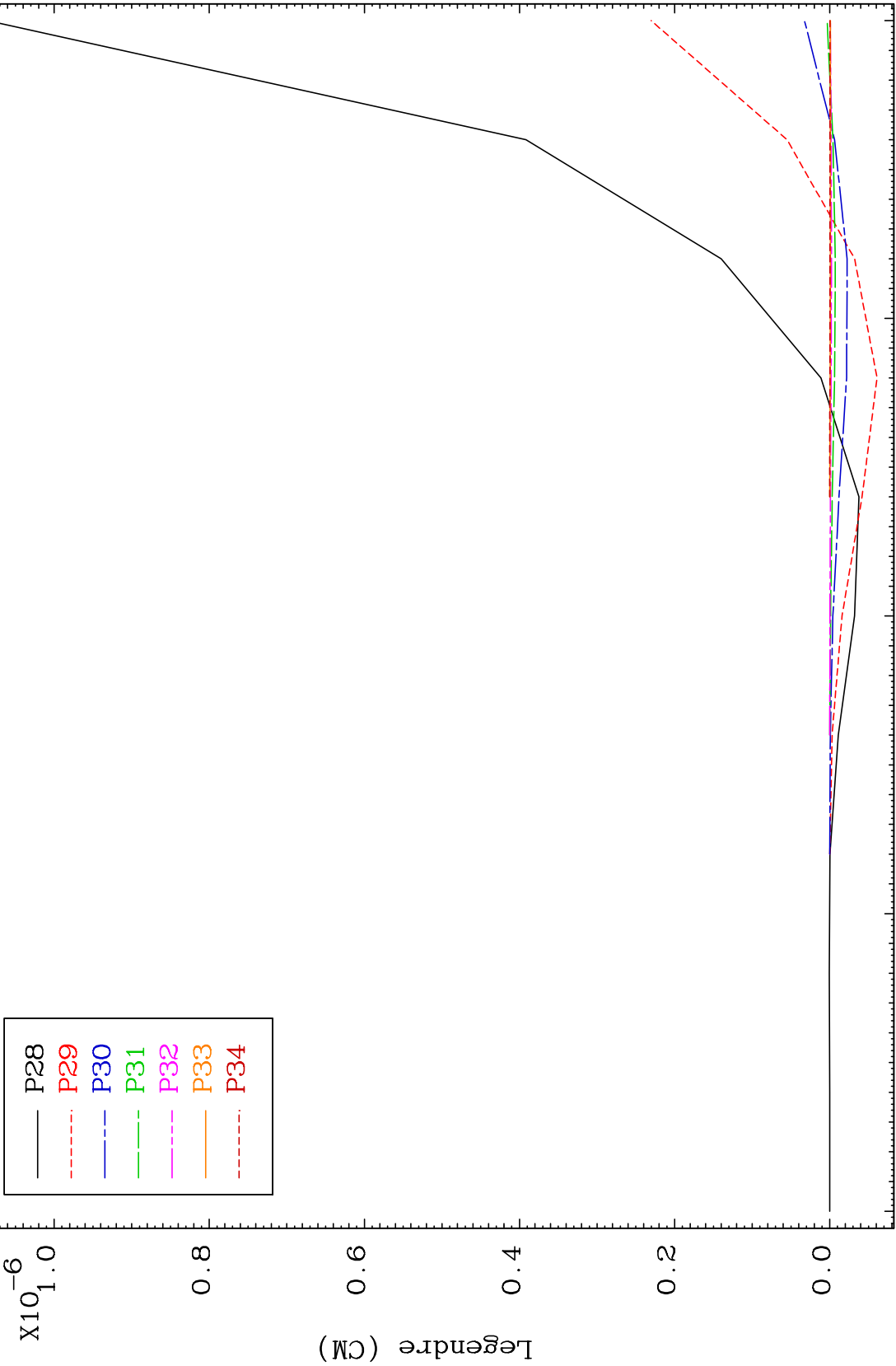
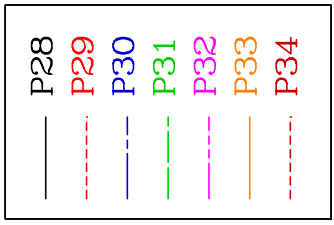
Incident Energy (MeV)

56-Ba-136

MAT 5643

Elastic Legendre Coefficients

56-Ba-136



19

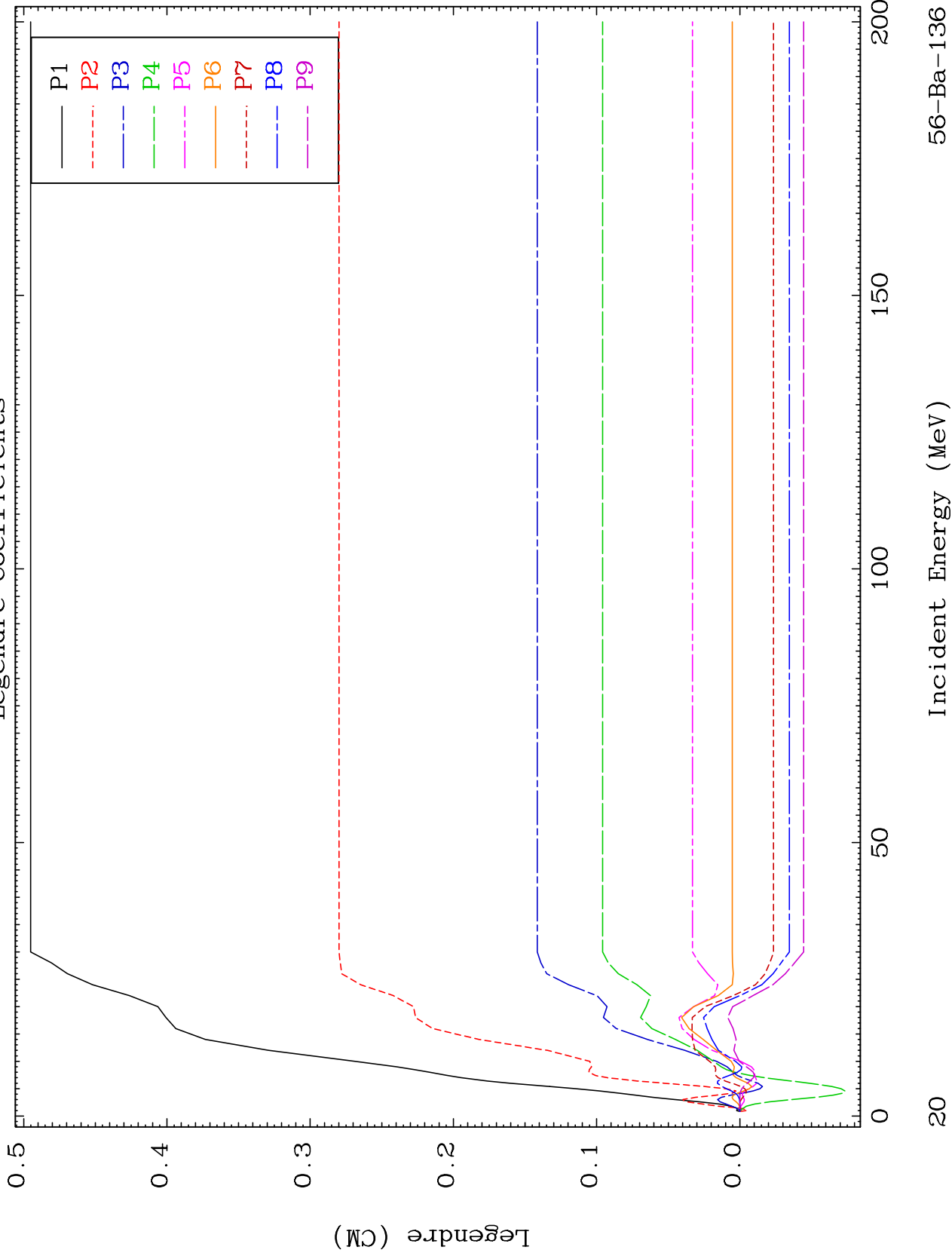
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

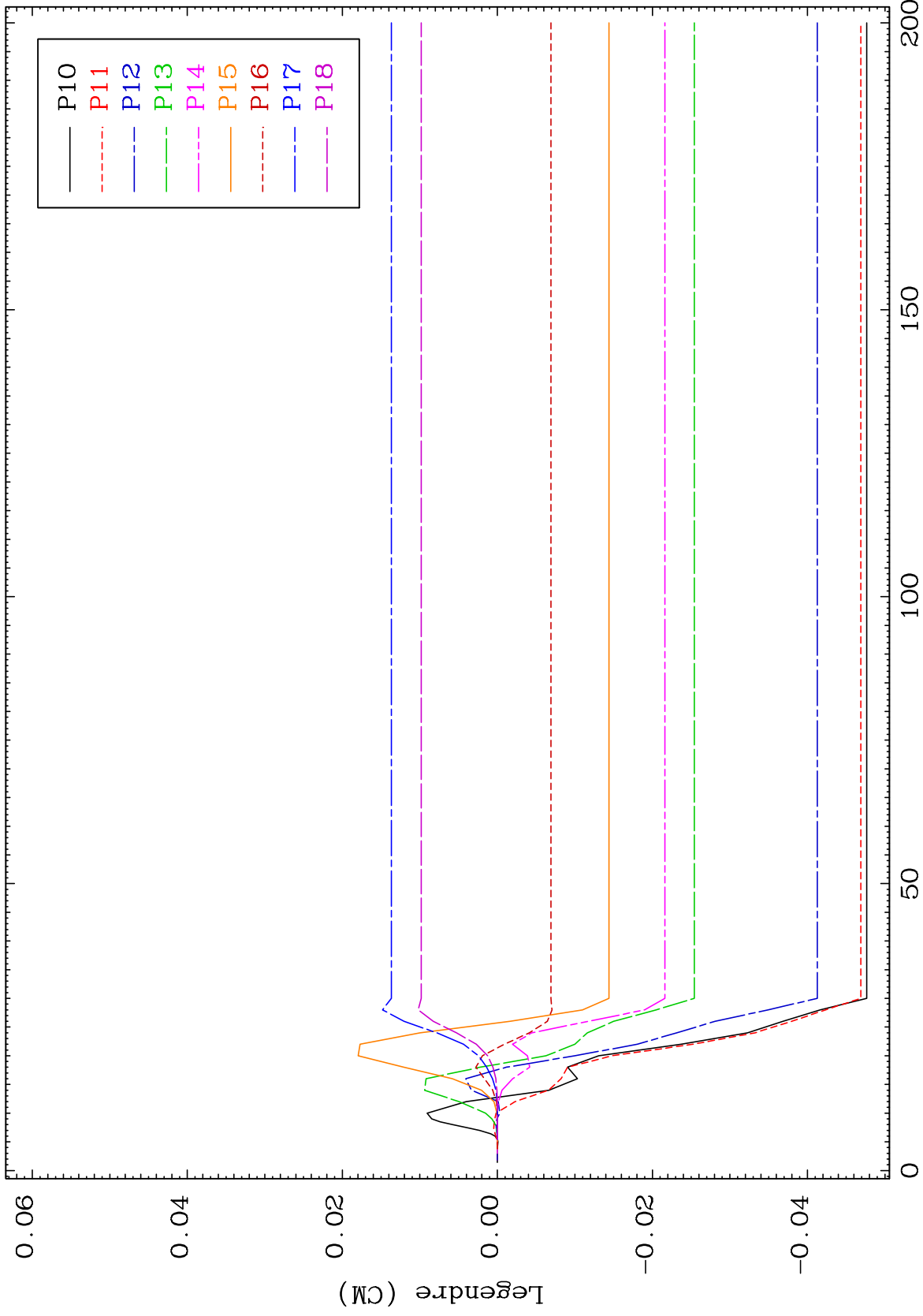
56-Ba-136



MAT 5643

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

56-Ba-136



21

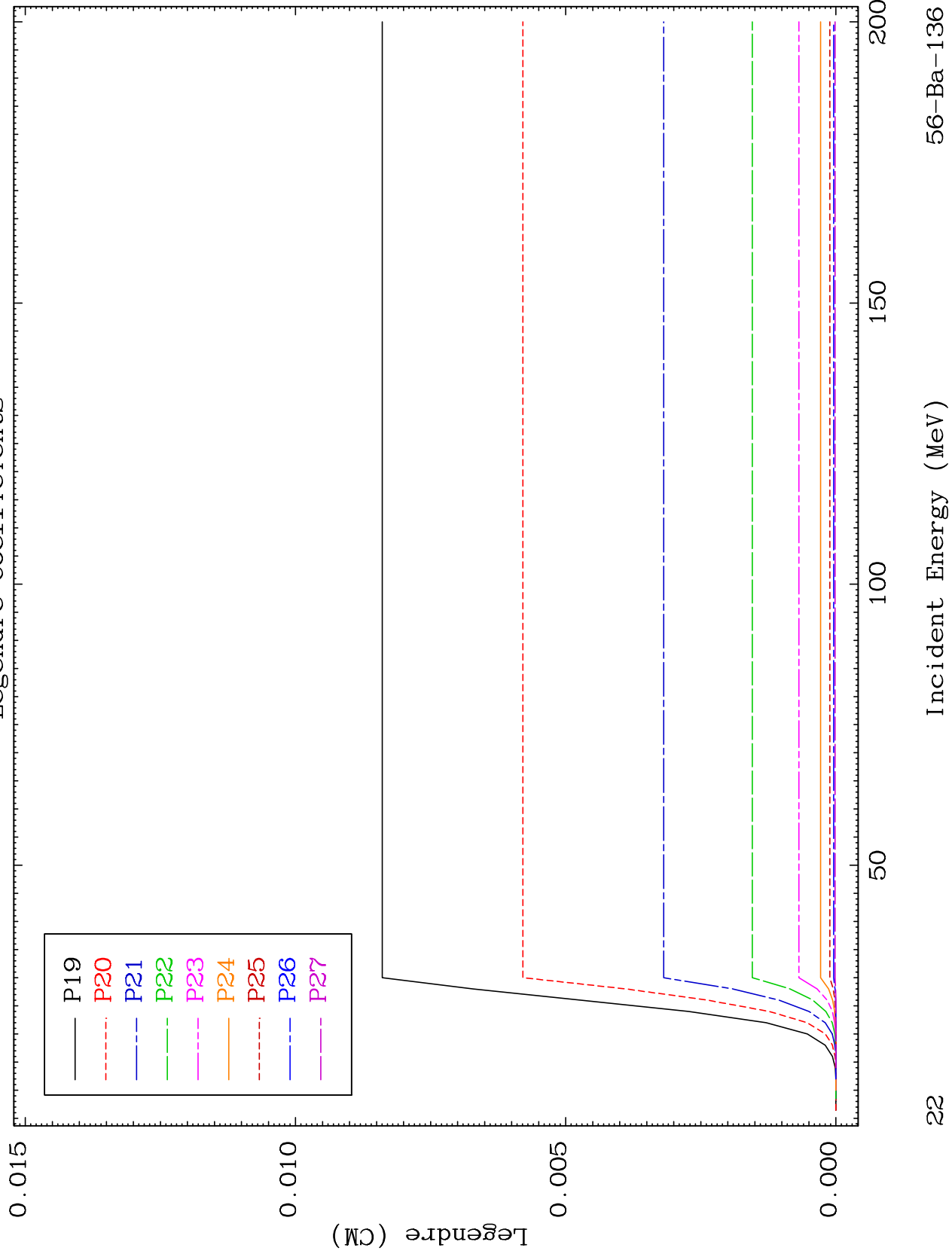
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

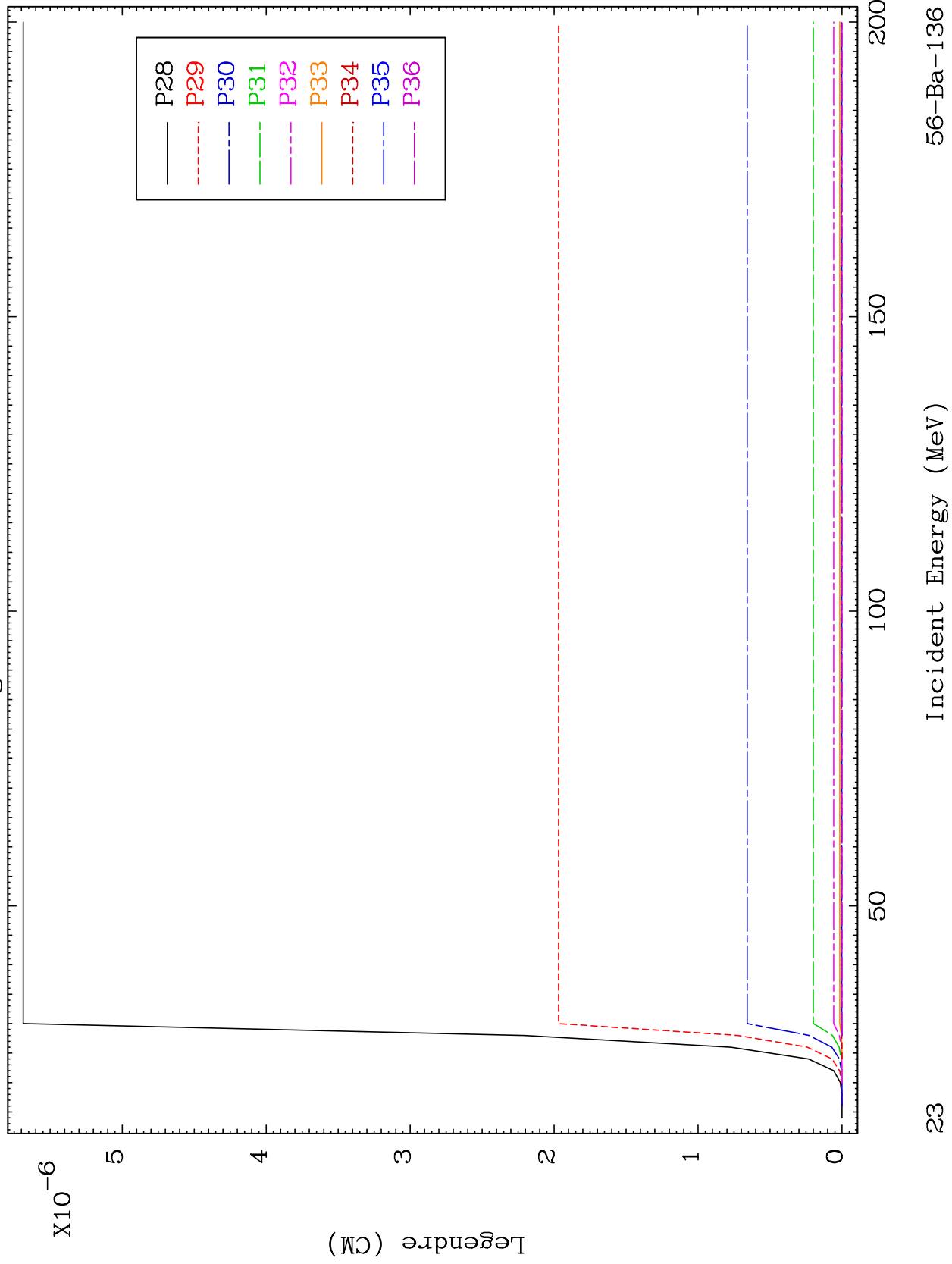
56-Ba-136



MAT 5643

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

56-Ba-136



23

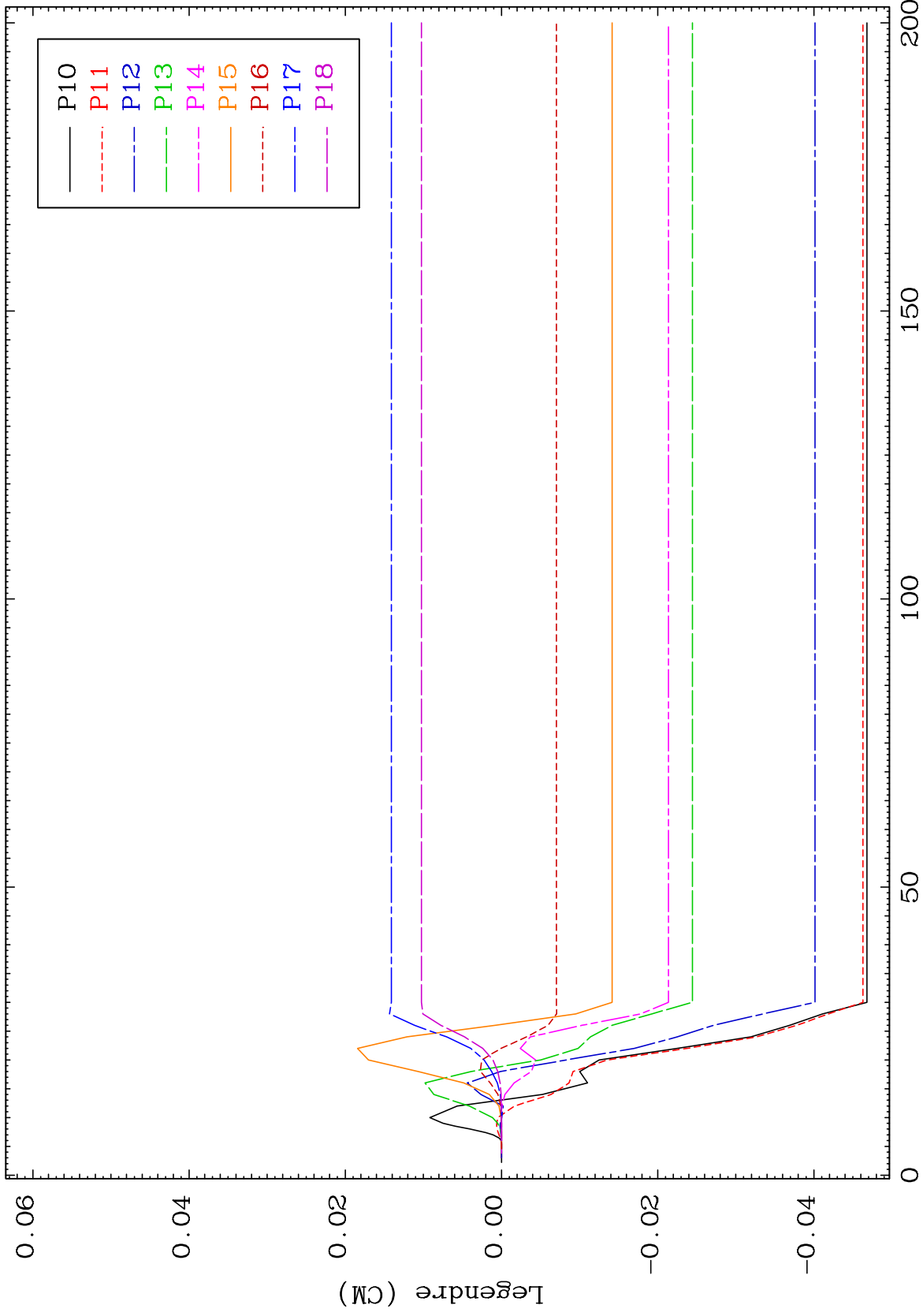
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

56-Ba-136



25

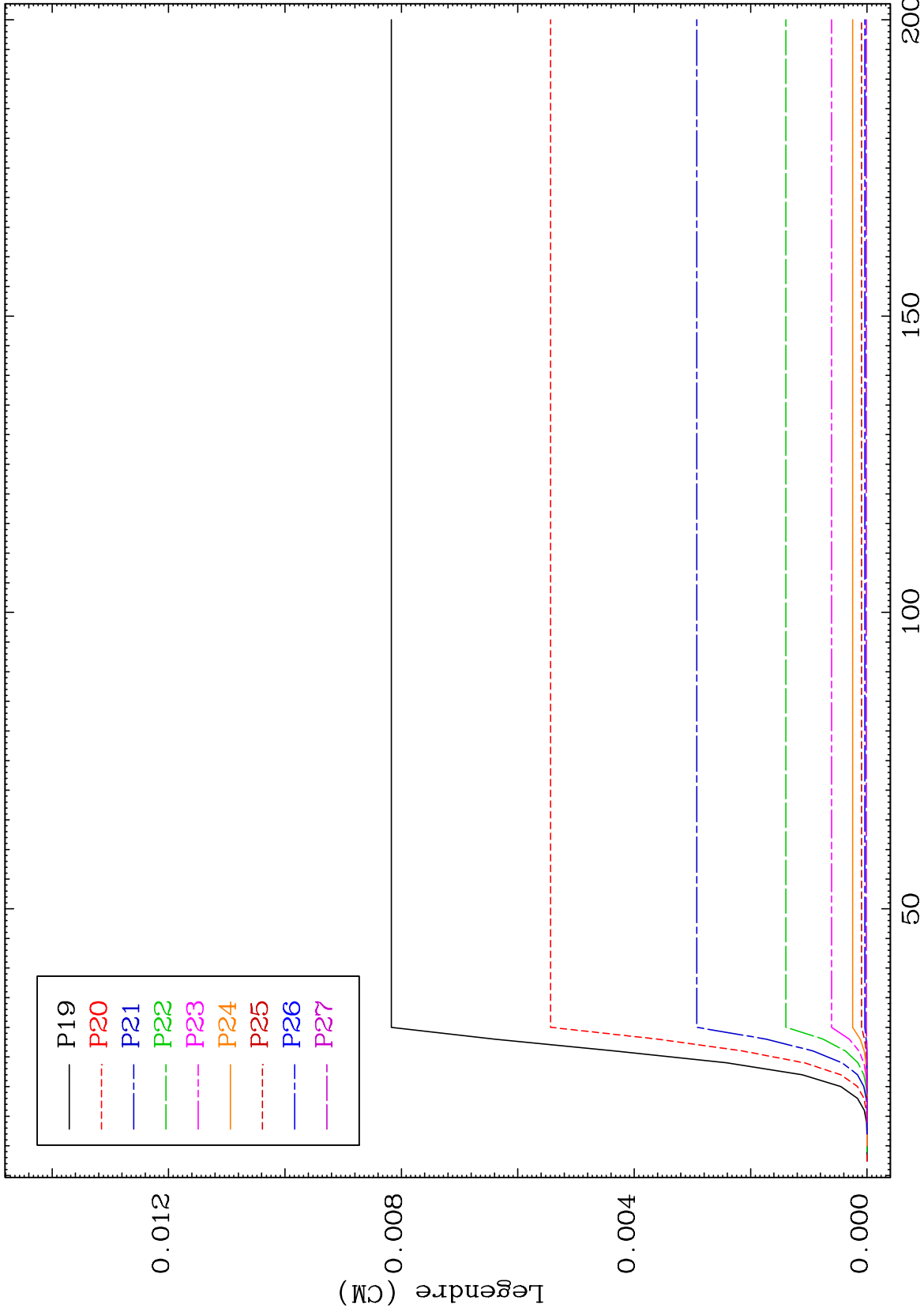
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

56-Ba-136



26

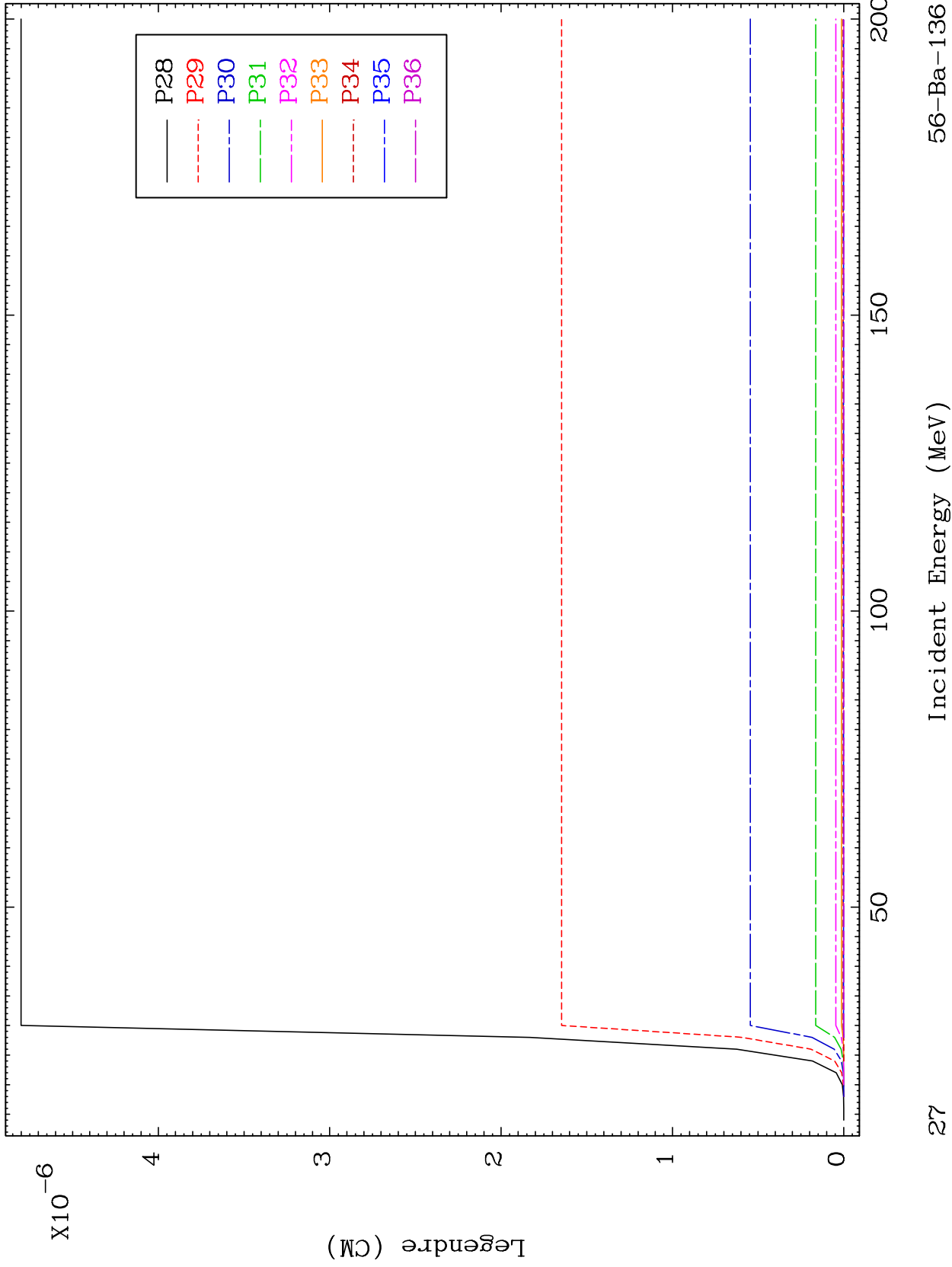
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

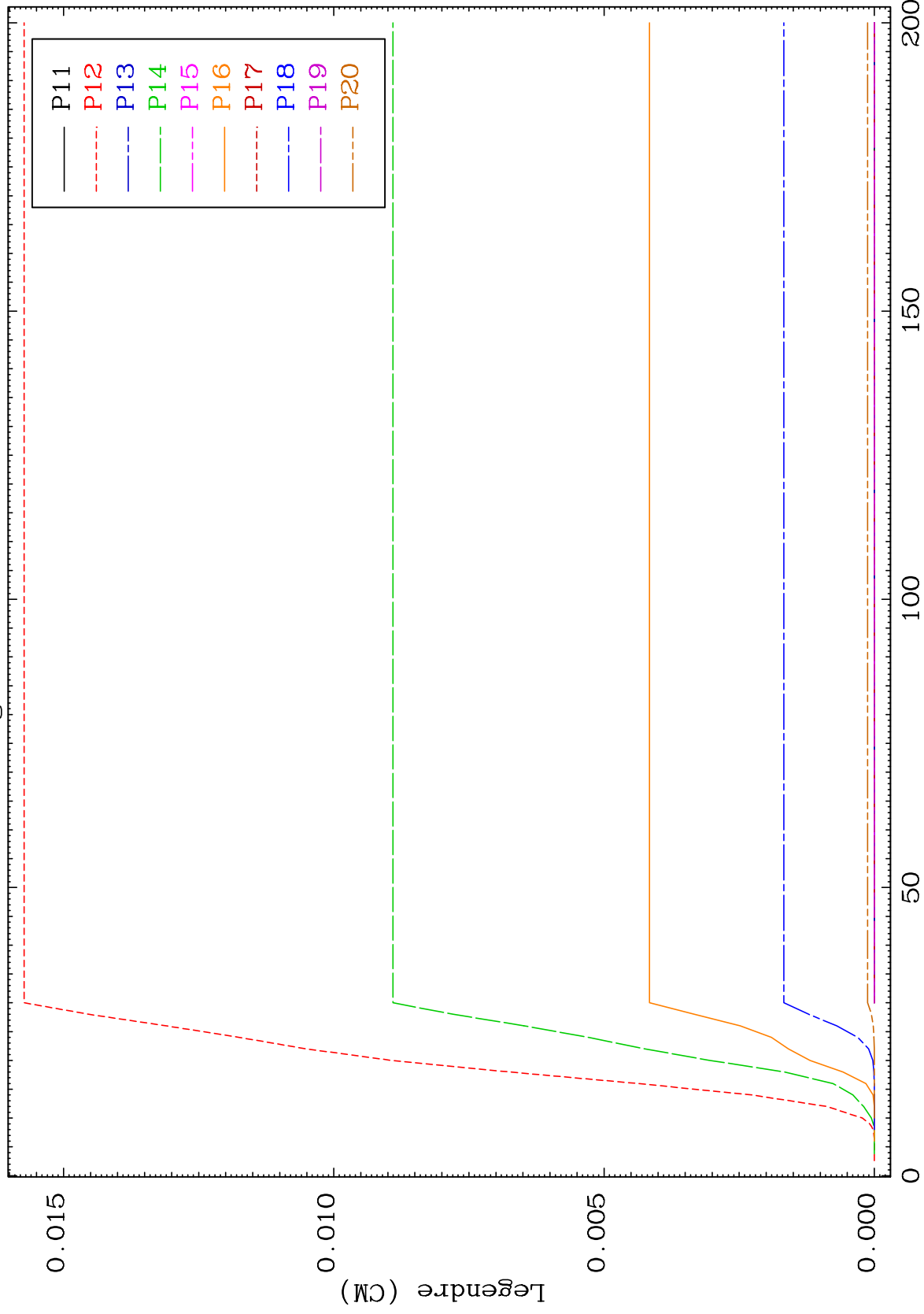
56-Ba-136



MAT 5643

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

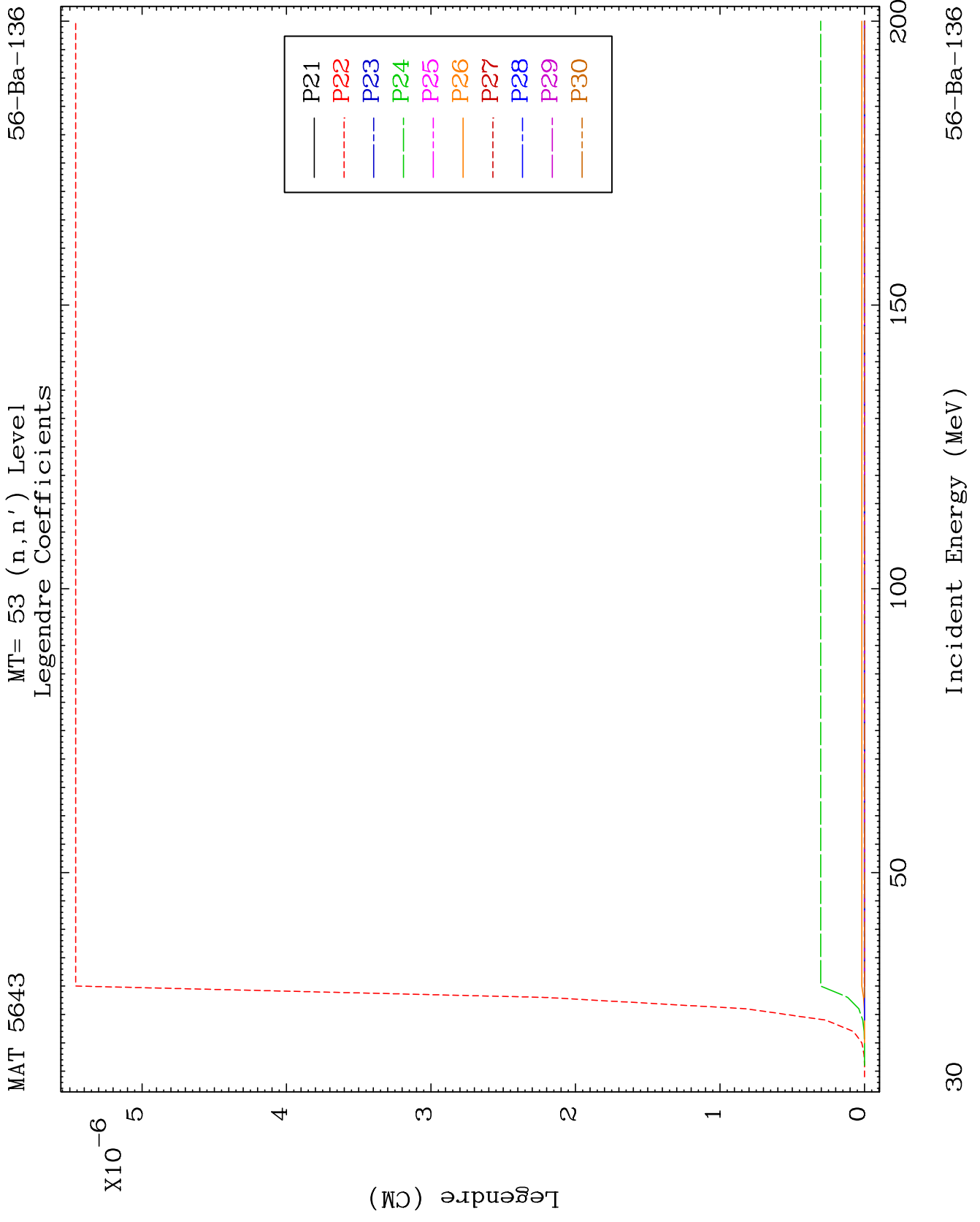
56-Ba-136



29

Incident Energy (MeV)

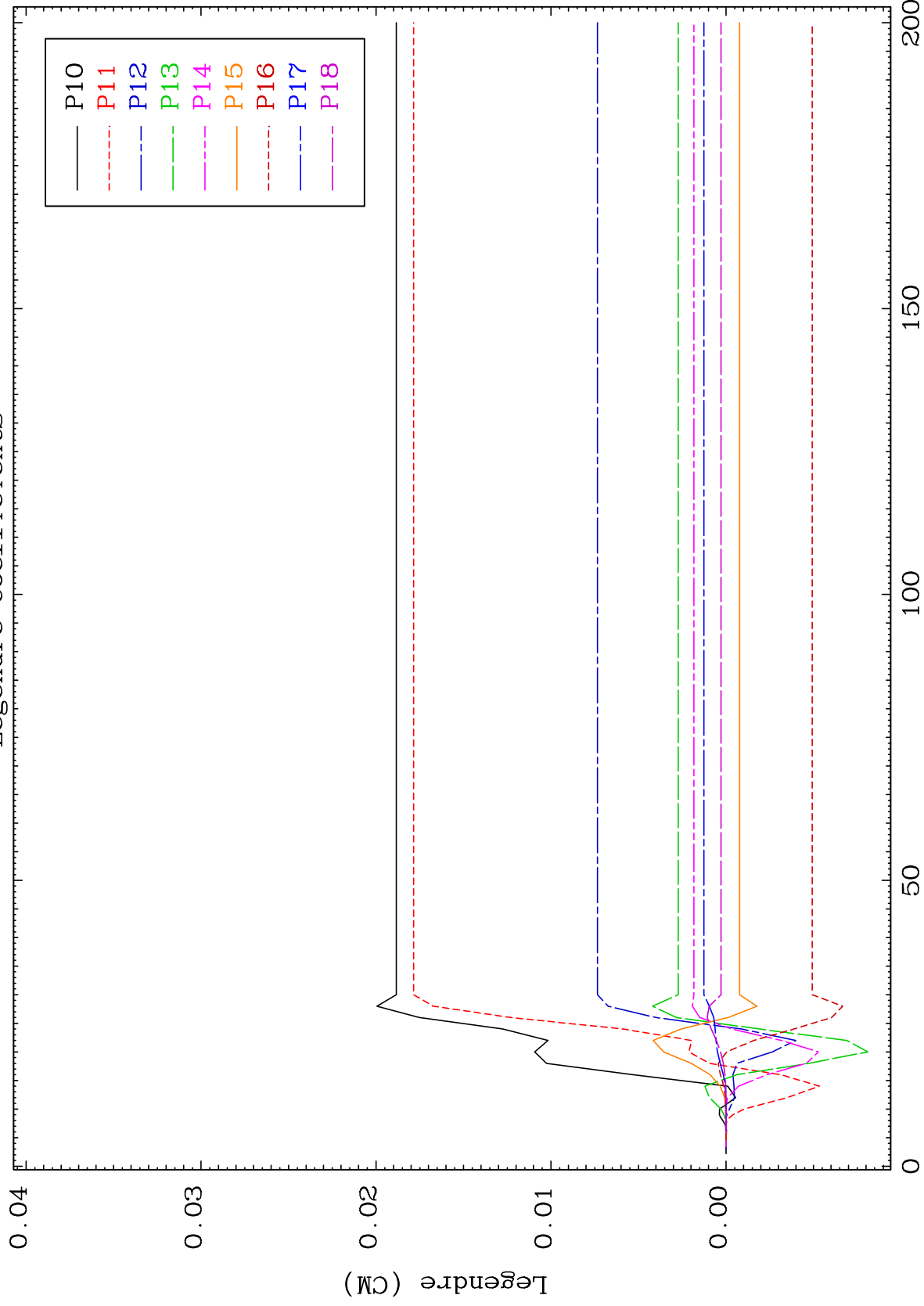
56-Ba-136



MAT 5643

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

56-Ba-136



32

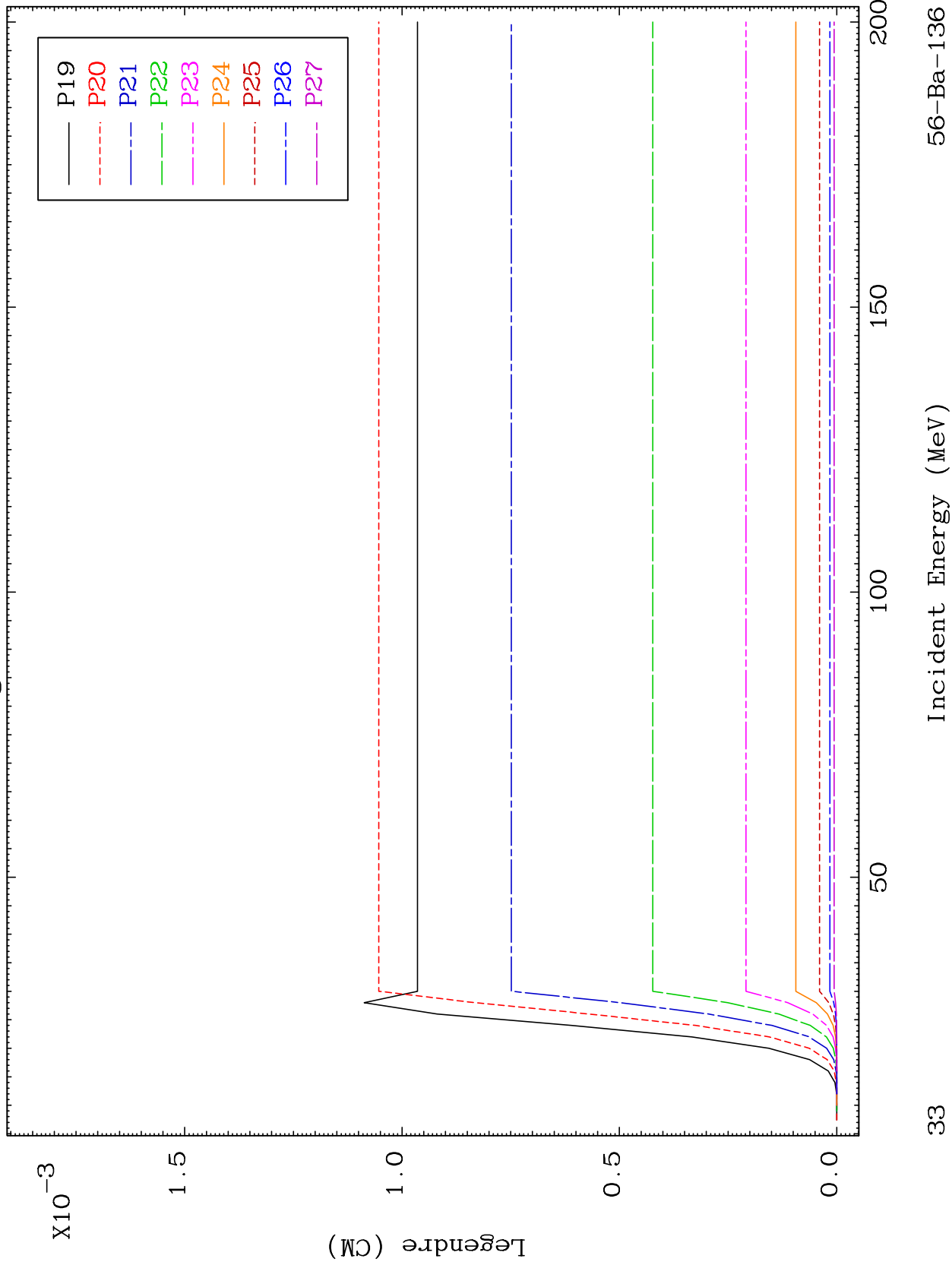
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

56-Ba-136

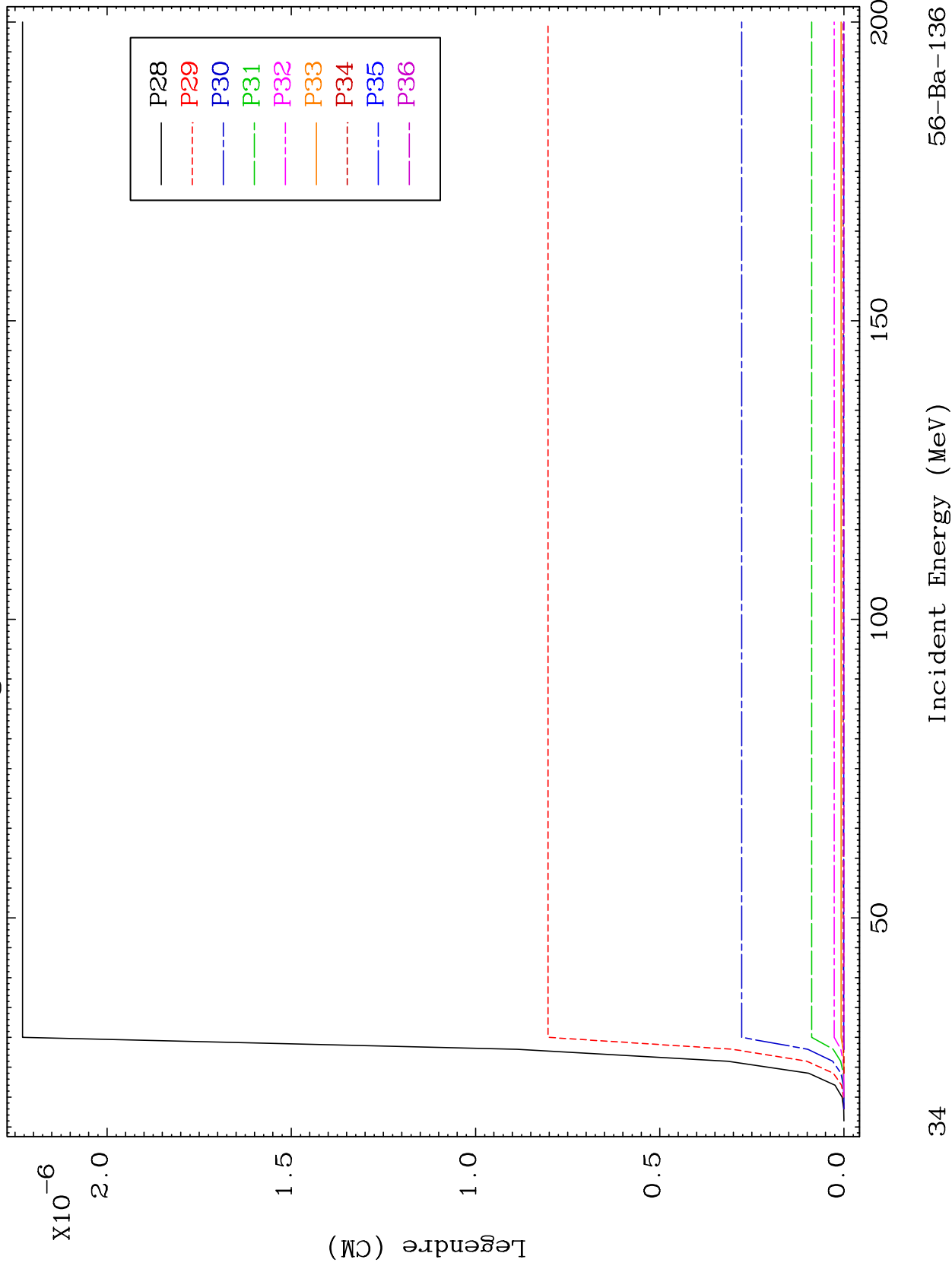


33

MAT 5643

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

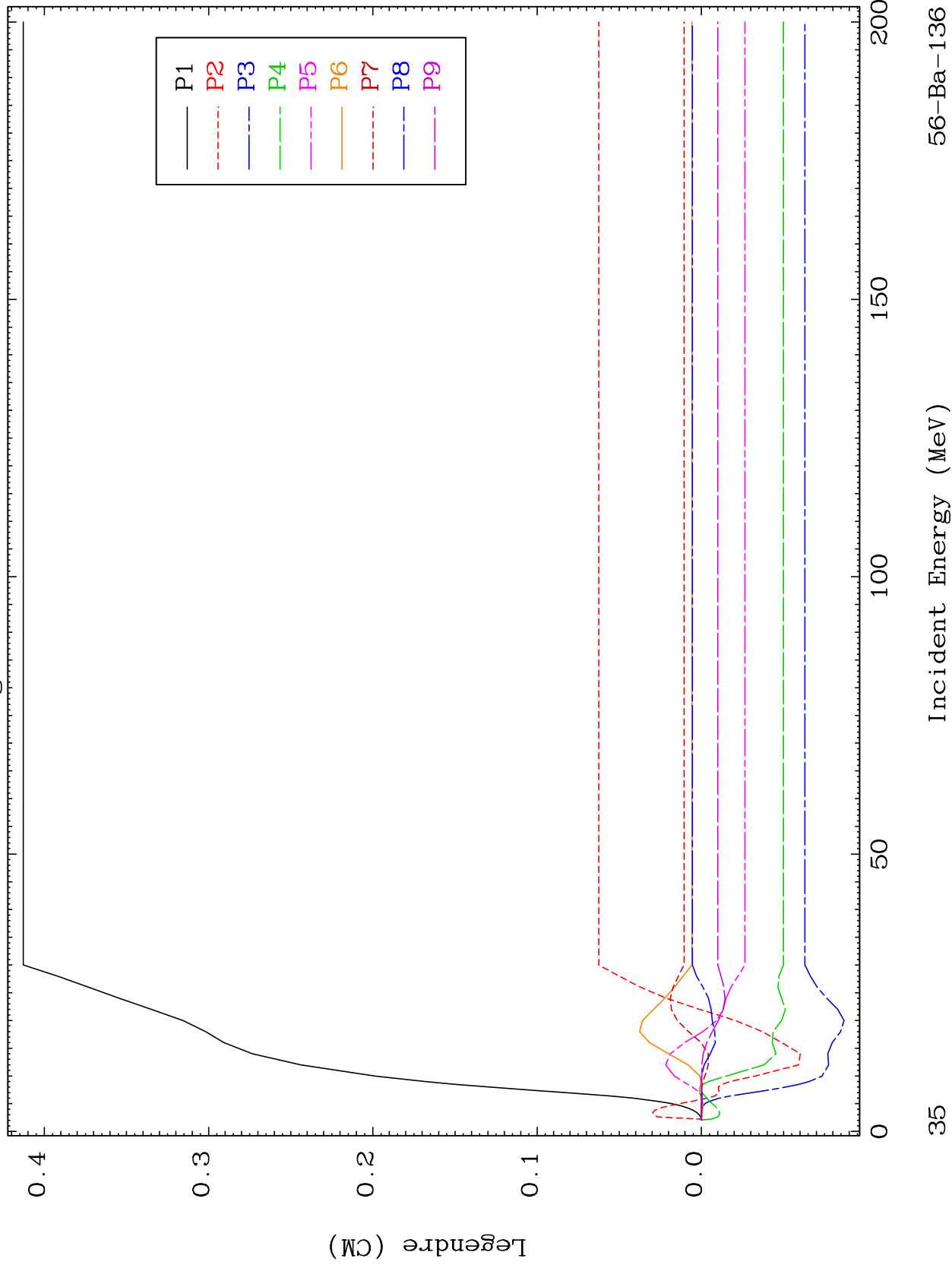
56-Ba-136



MAT 5643

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

56-Ba-136



56-Ba-136

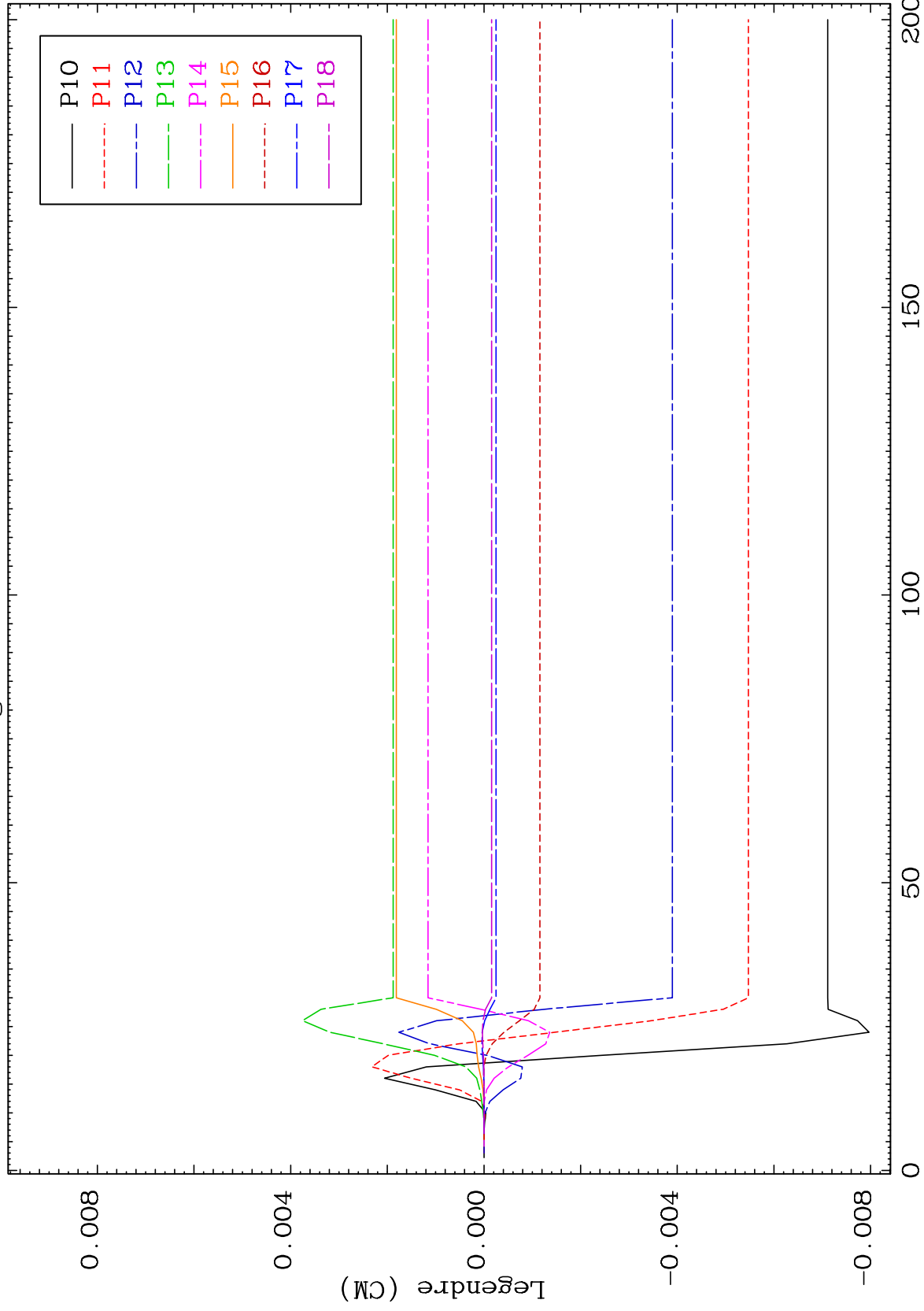
Incident Energy (MeV)

35

MAT 5643

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

56-Ba-136



36

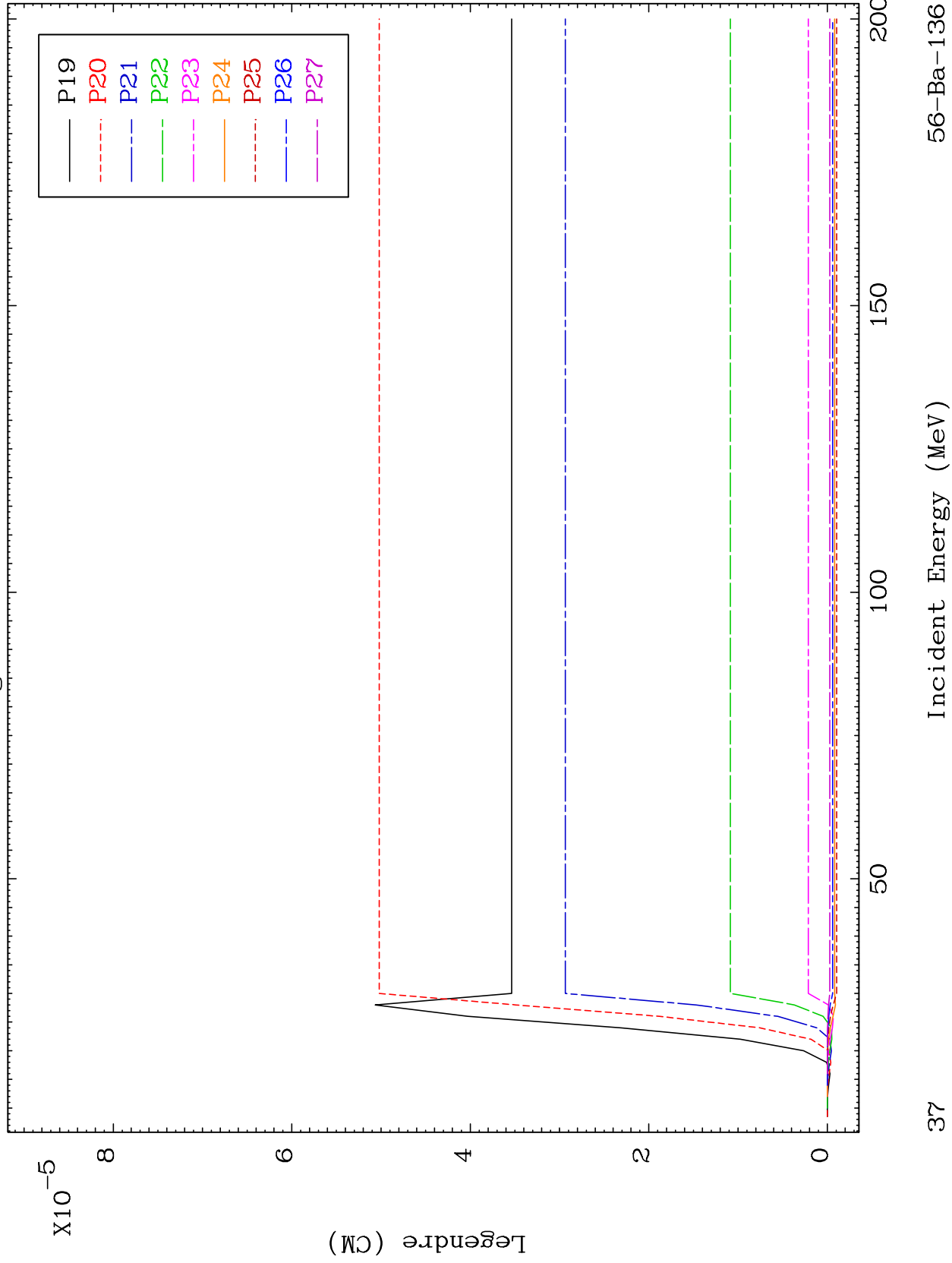
Incident Energy (MeV)

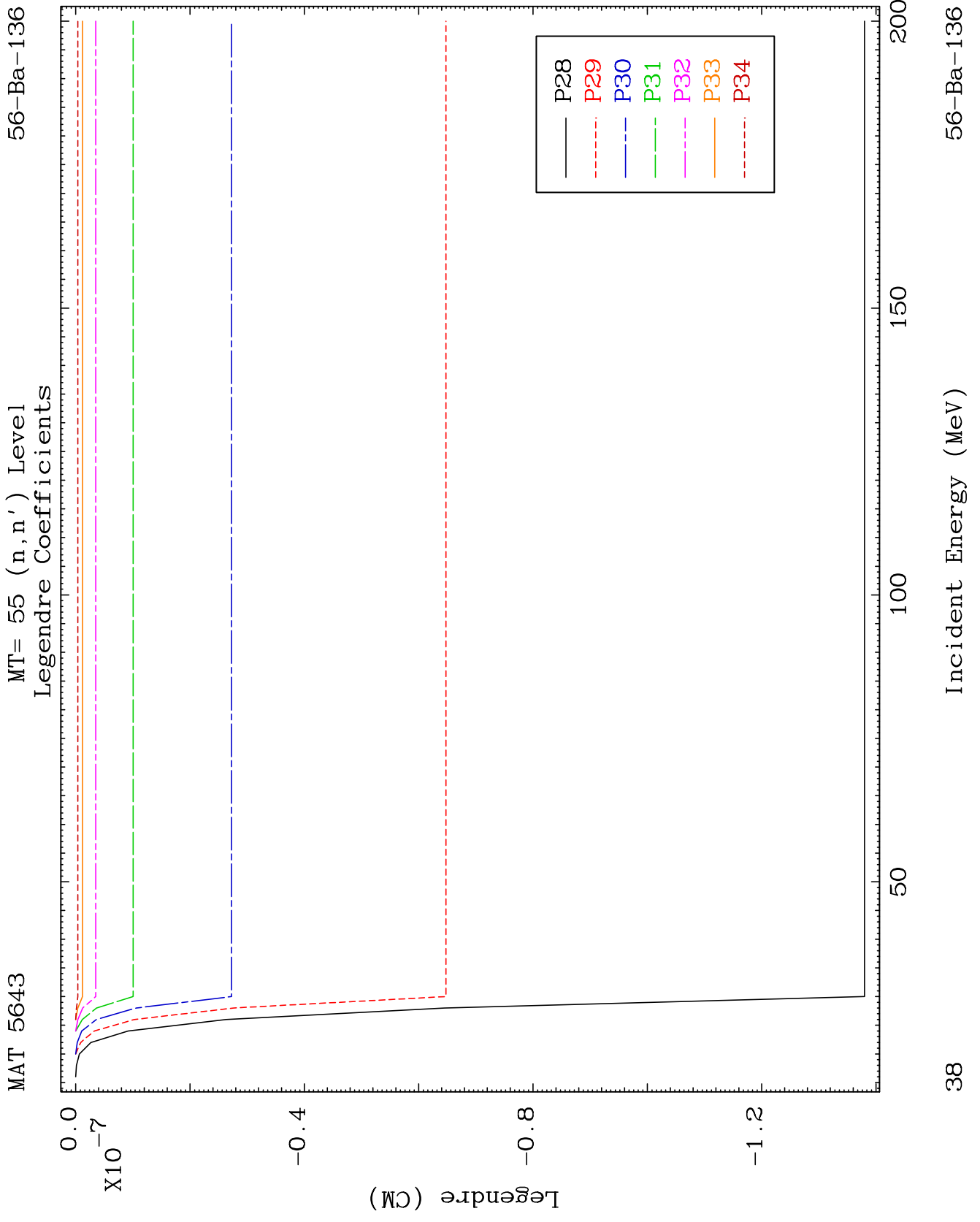
56-Ba-136

MAT 5643

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

56-Ba-136

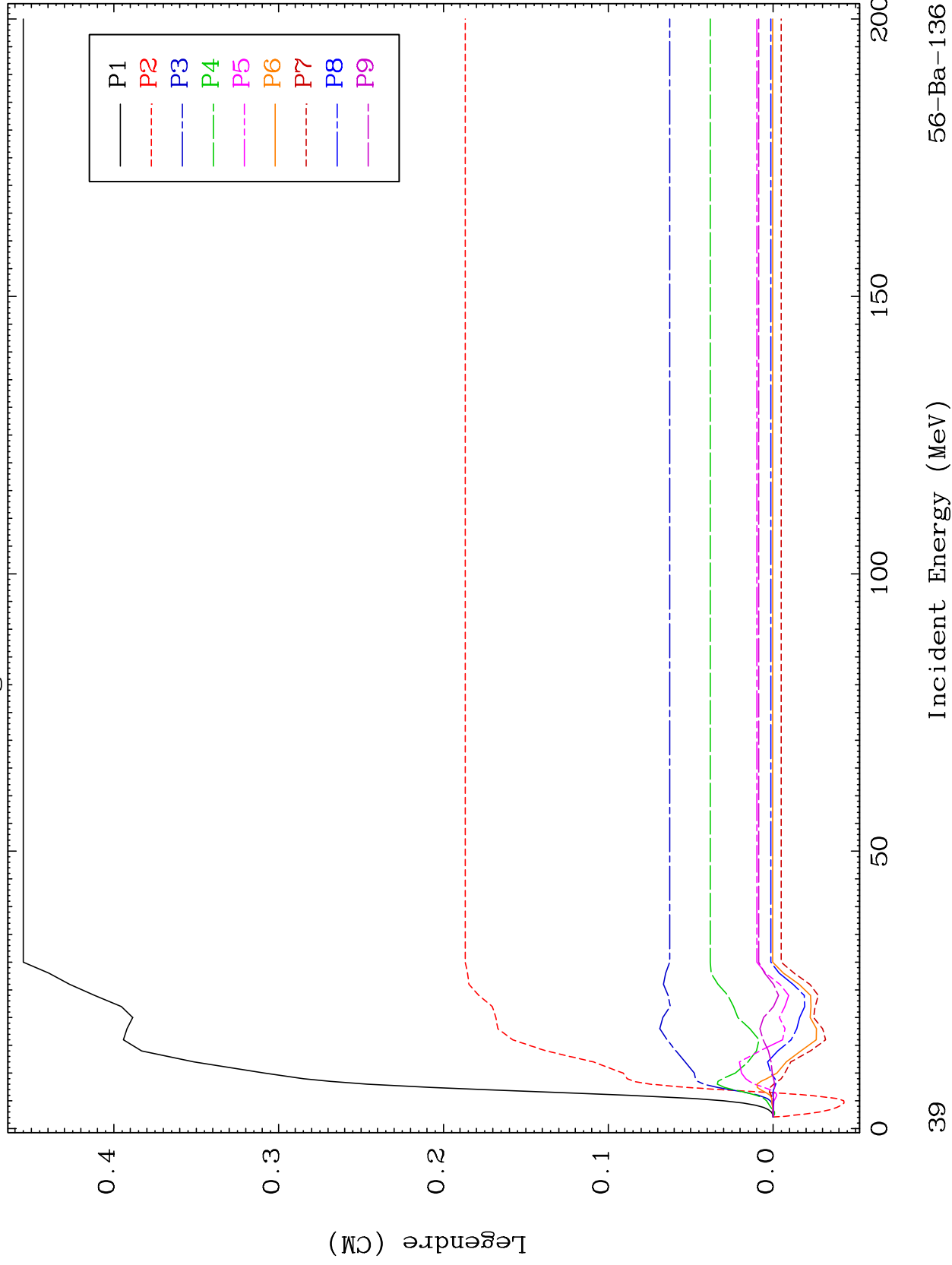




MAT 5643

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

56-Ba-136



56-Ba-136

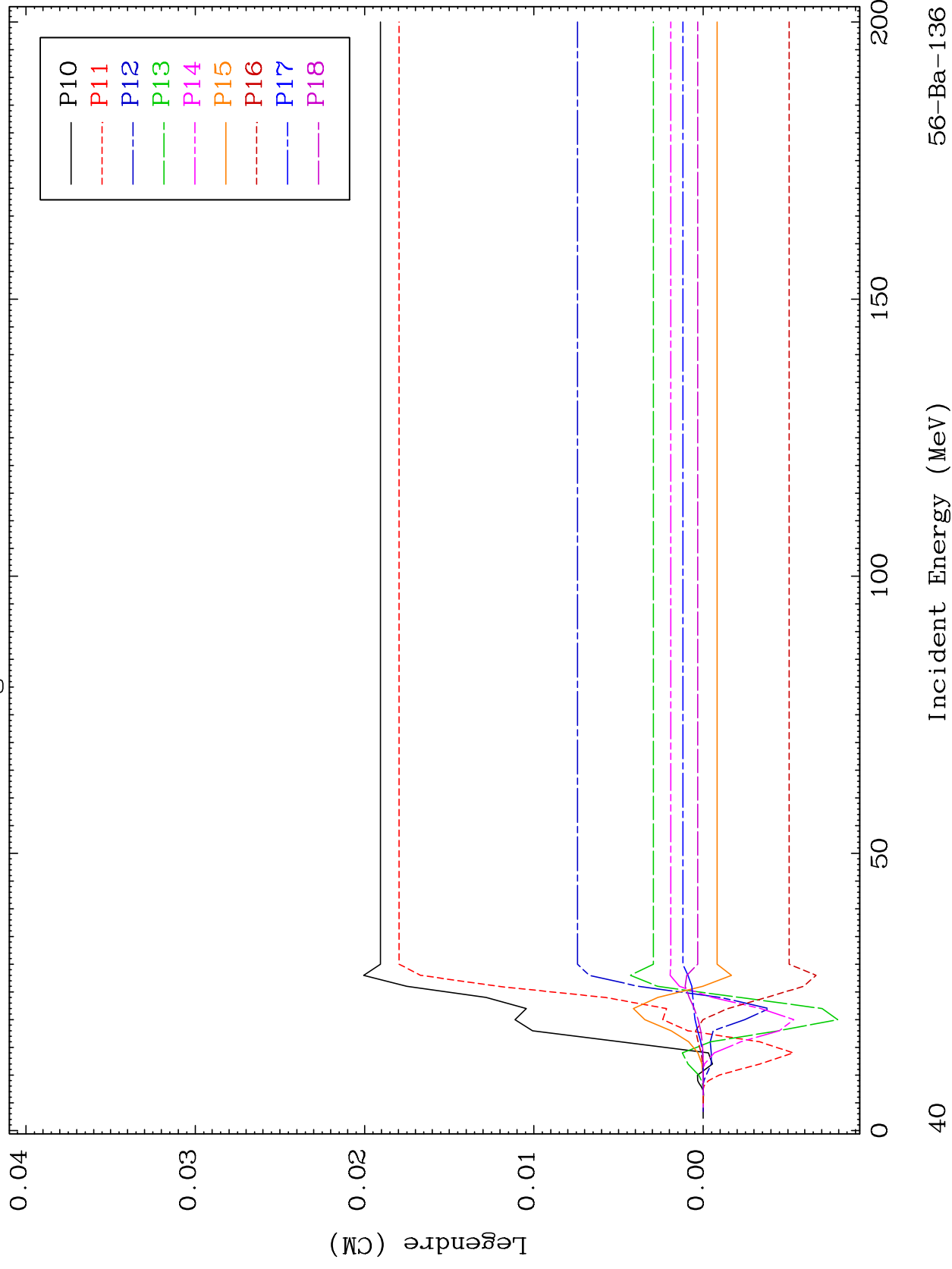
Incident Energy (MeV)

39

MAT 5643

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

56-Ba-136



56-Ba-136

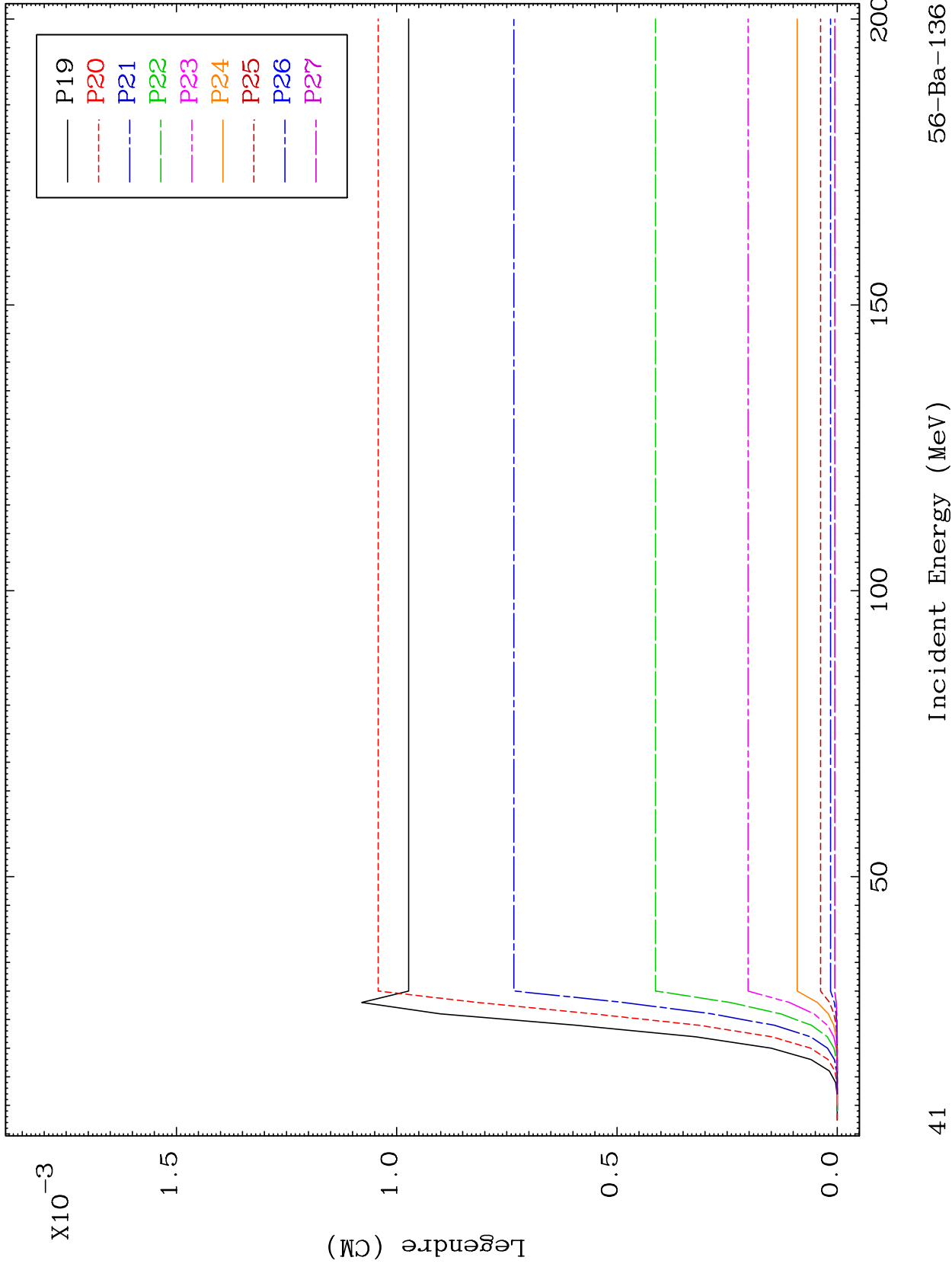
Incident Energy (MeV)

40

MAT 5643

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

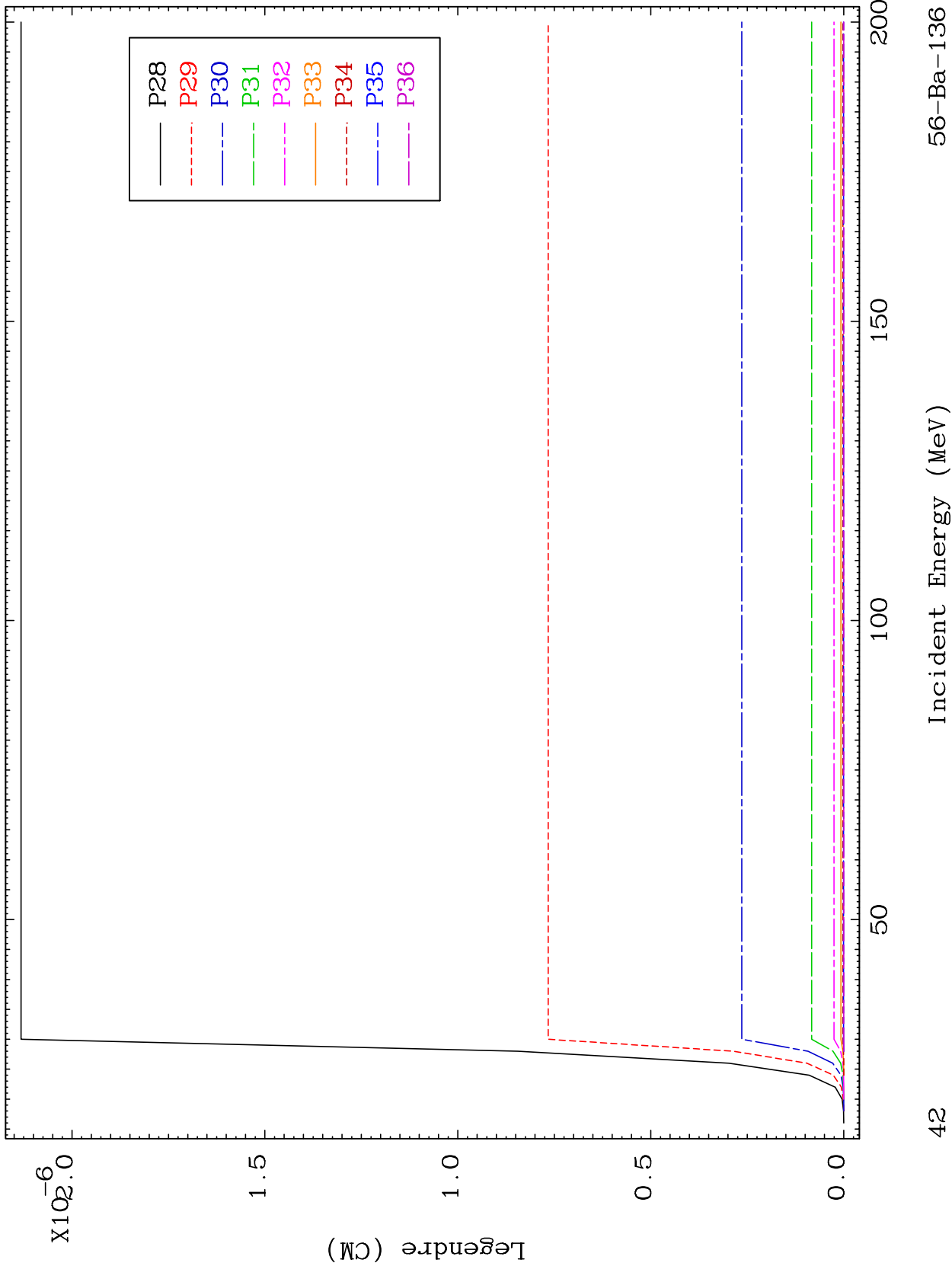
56-Ba-136



MAT 5643

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

56-Ba-136



42

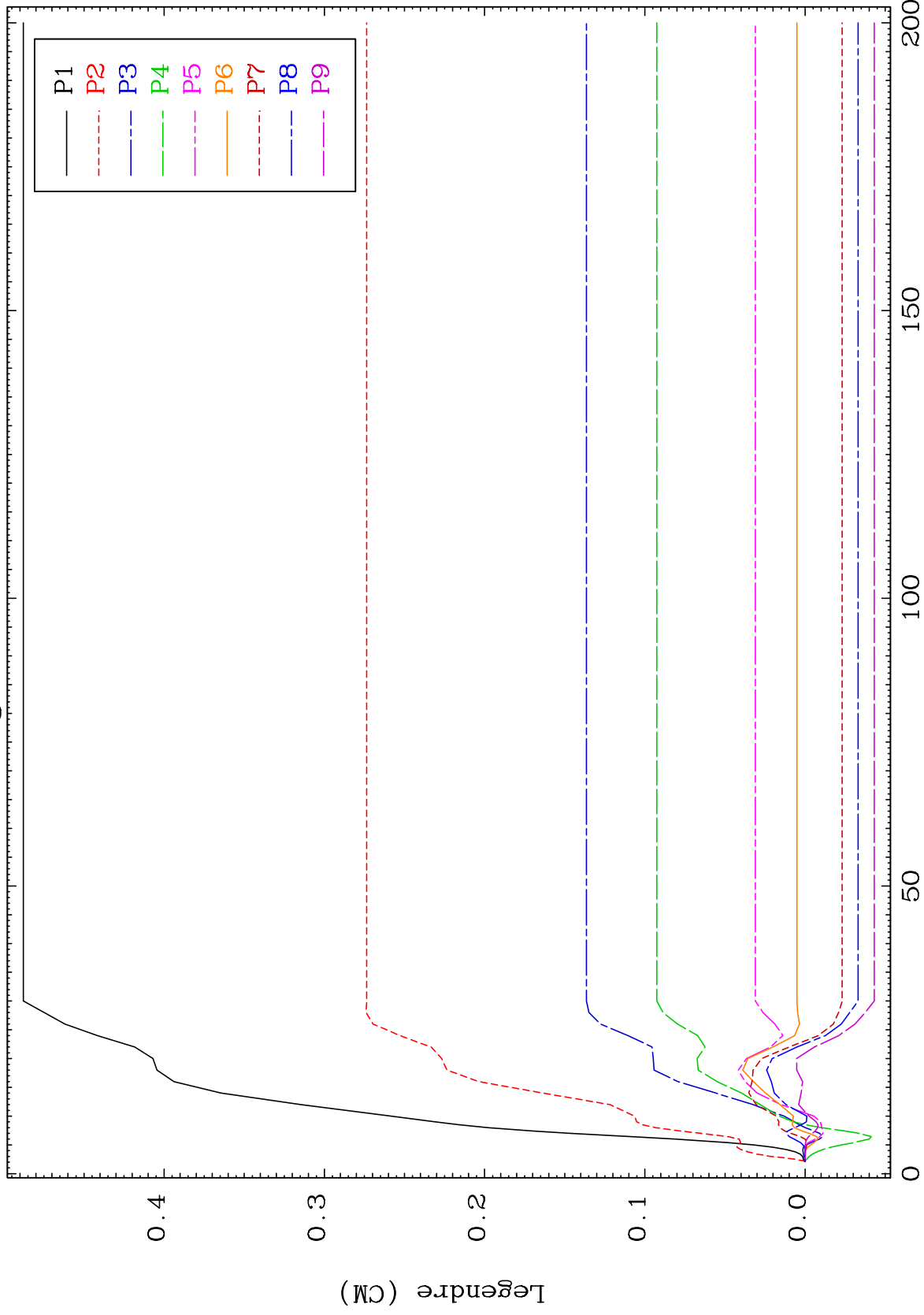
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

56-Ba-136



56-Ba-136

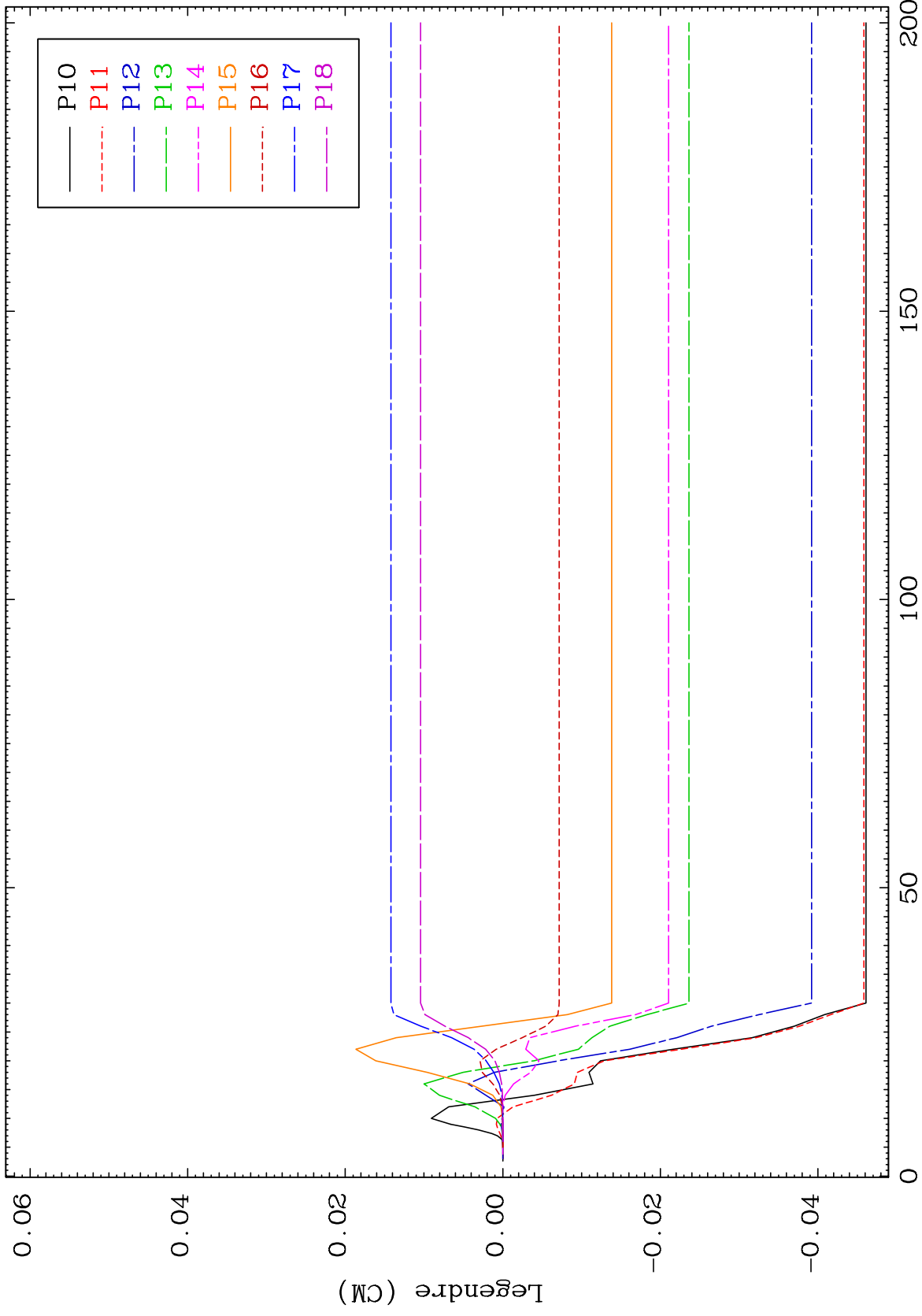
Incident Energy (MeV)

43

MAT 5643

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

56-Ba-136



44

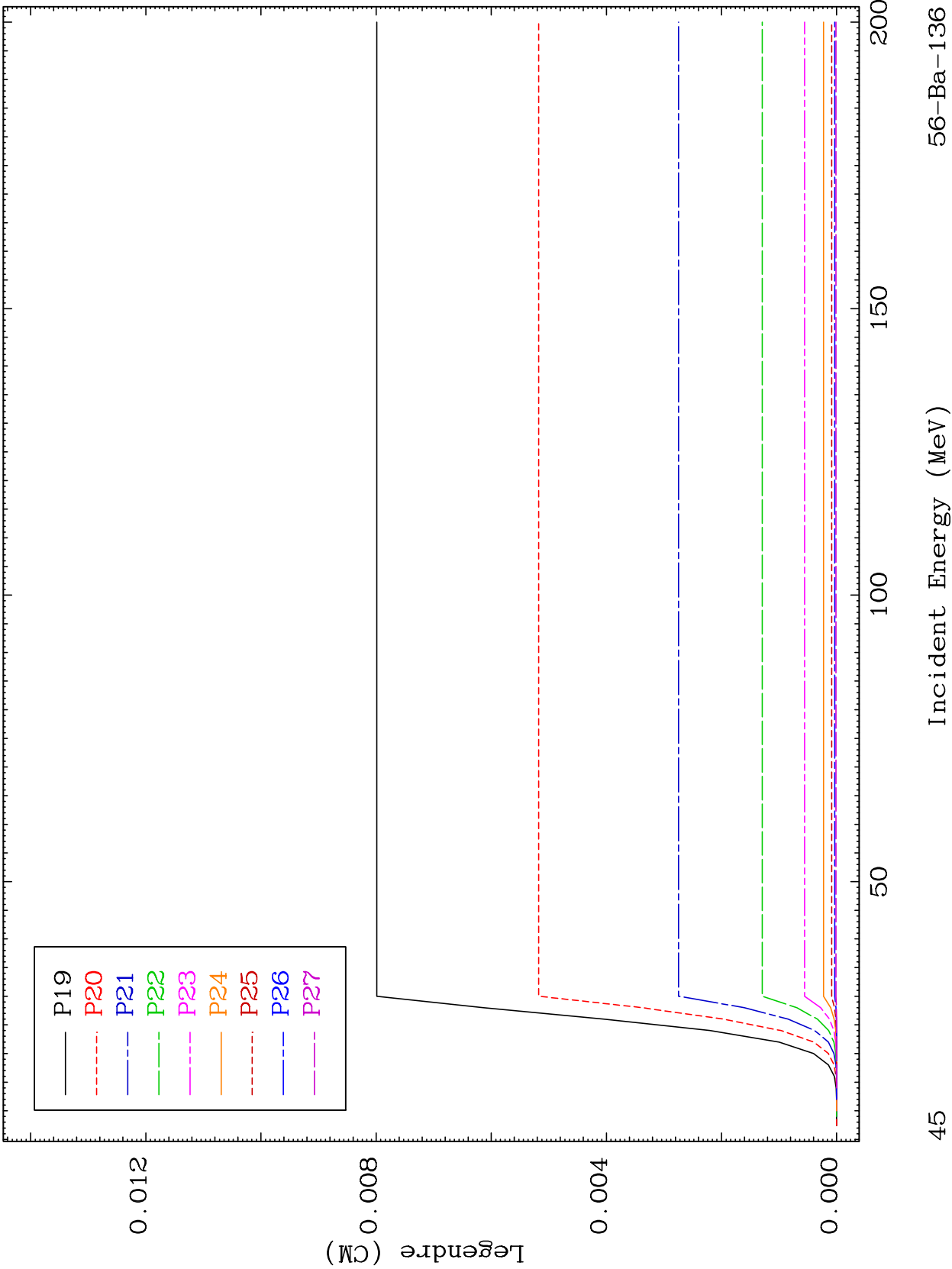
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

56-Ba-136



45

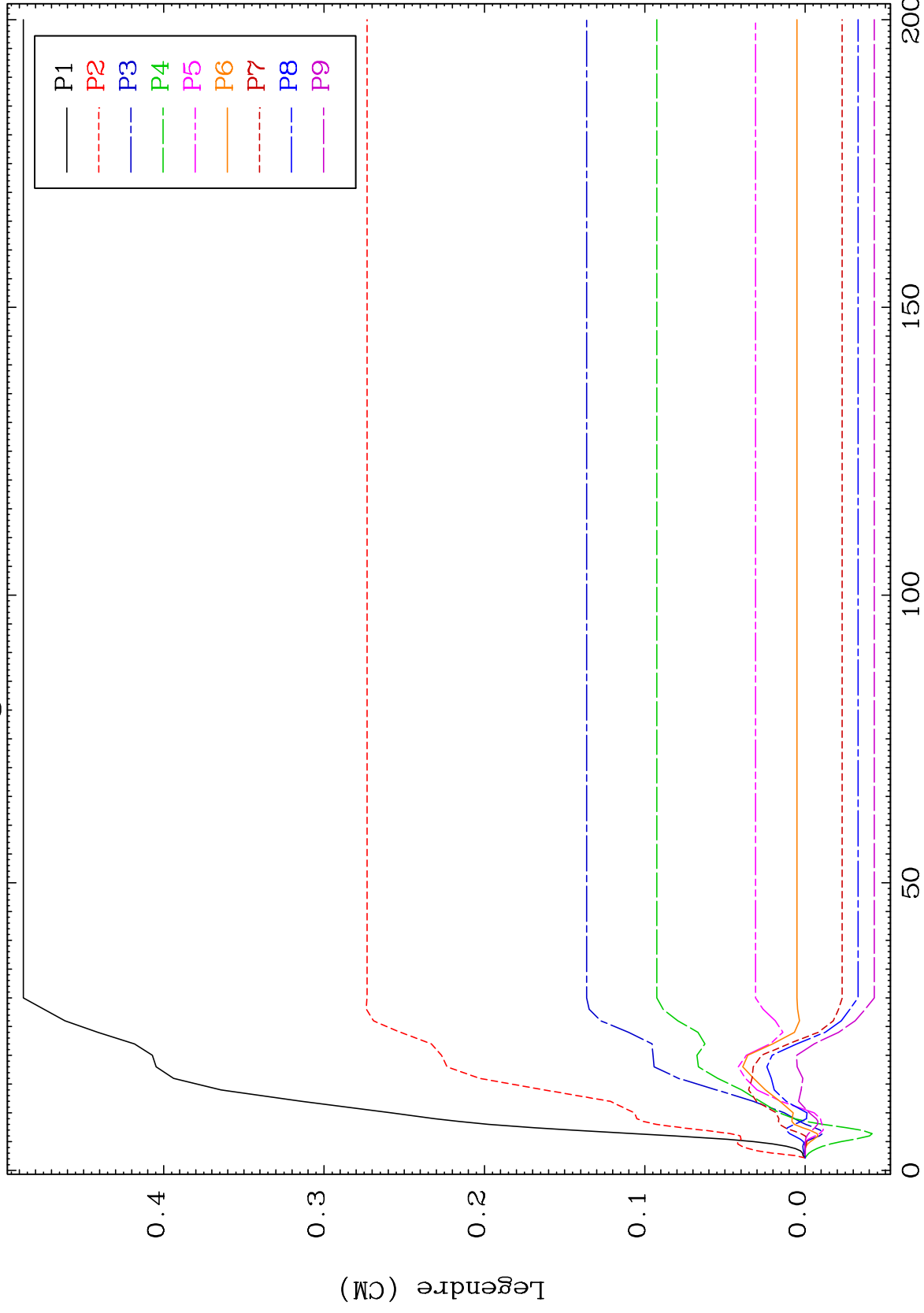
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

56-Ba-136



47

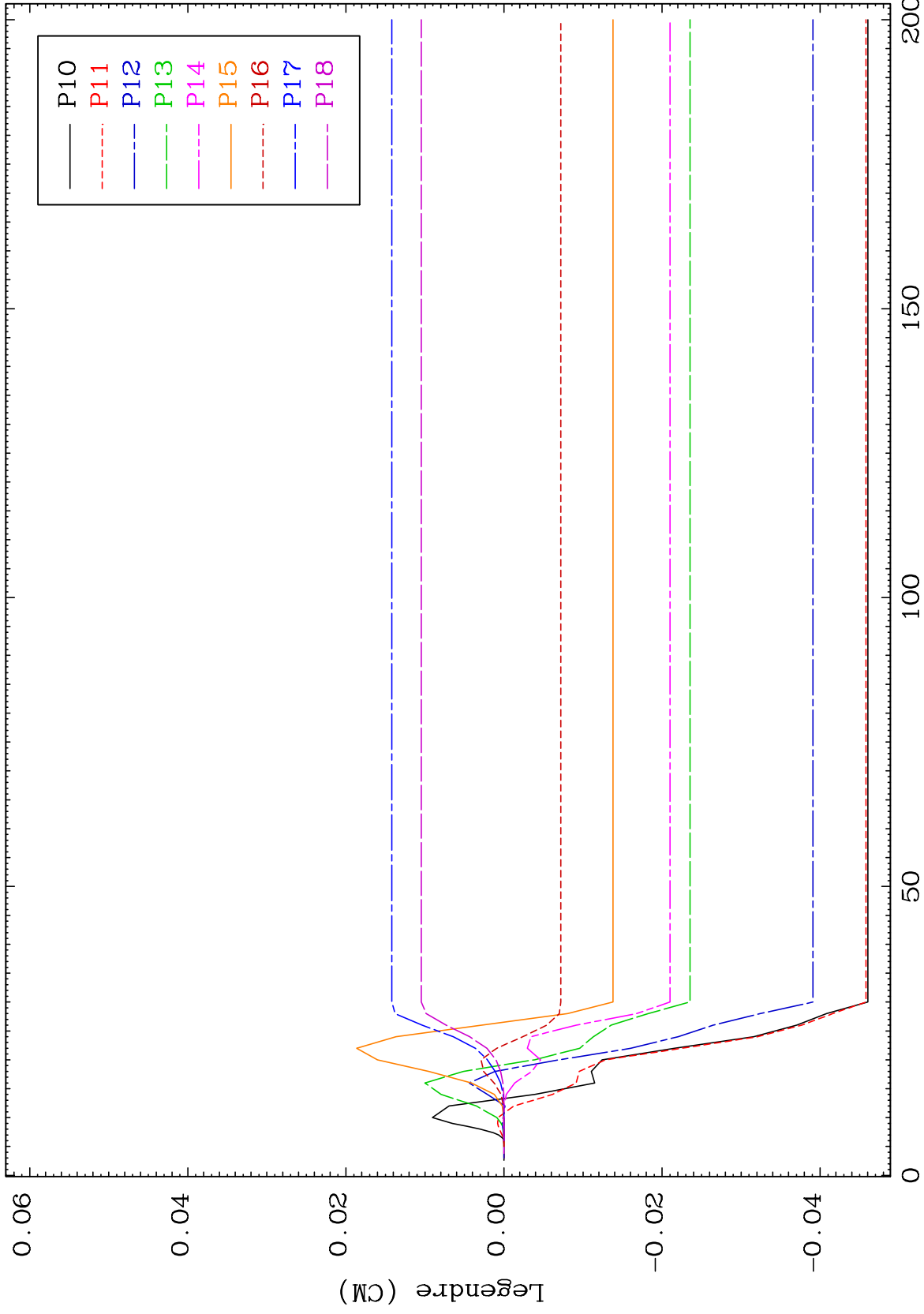
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

56-Ba-136



48

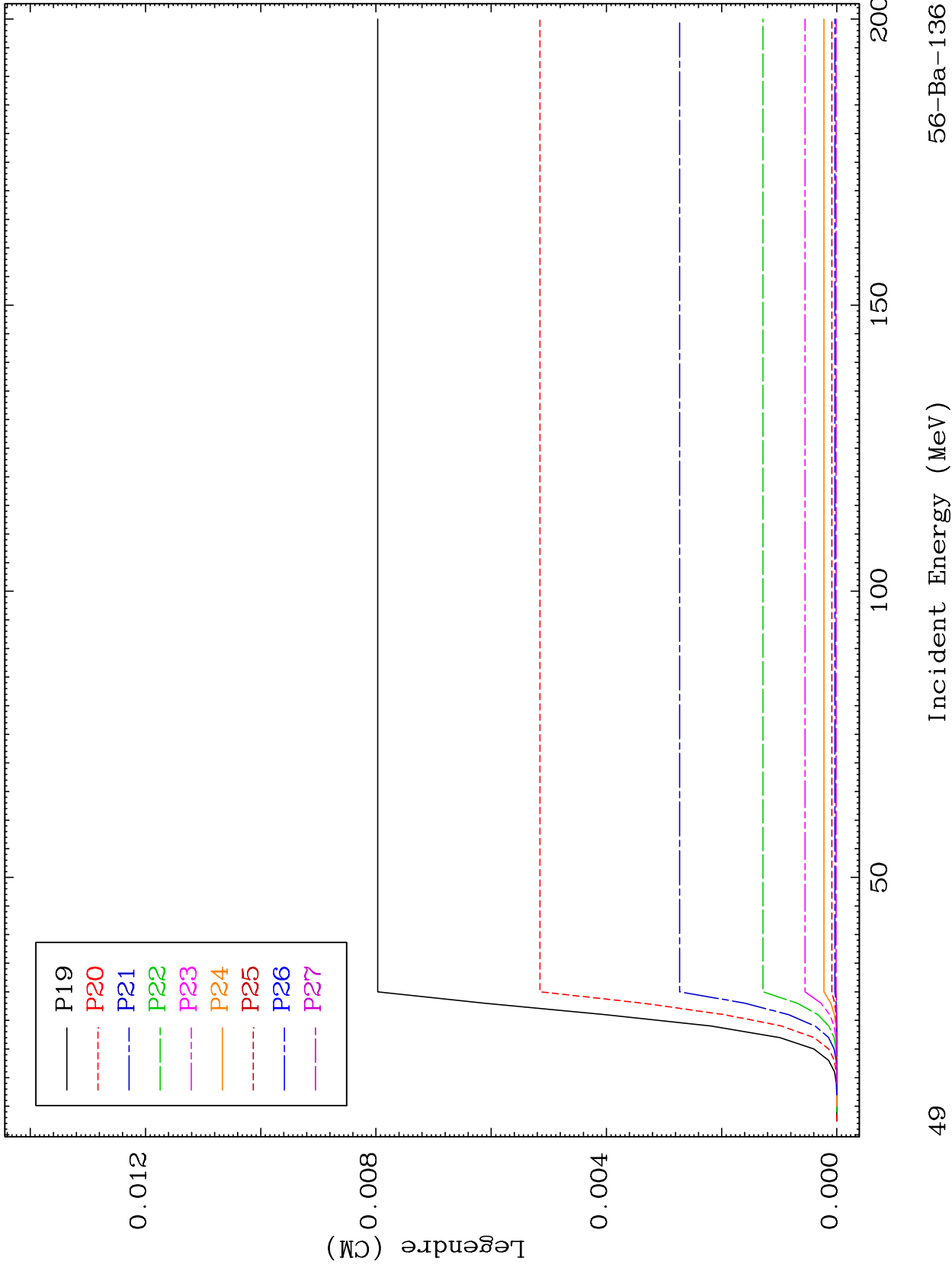
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

56-Ba-136



49

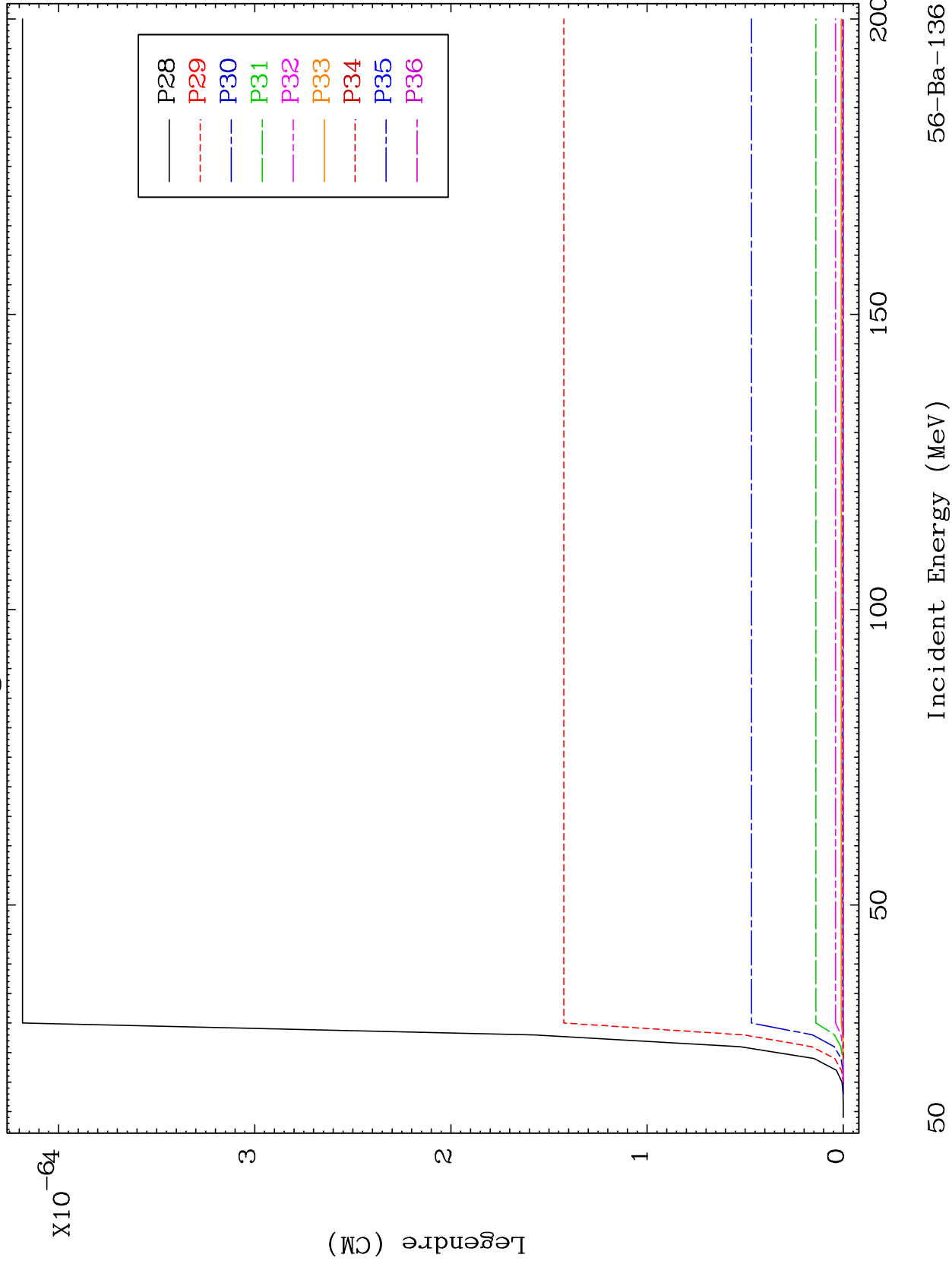
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

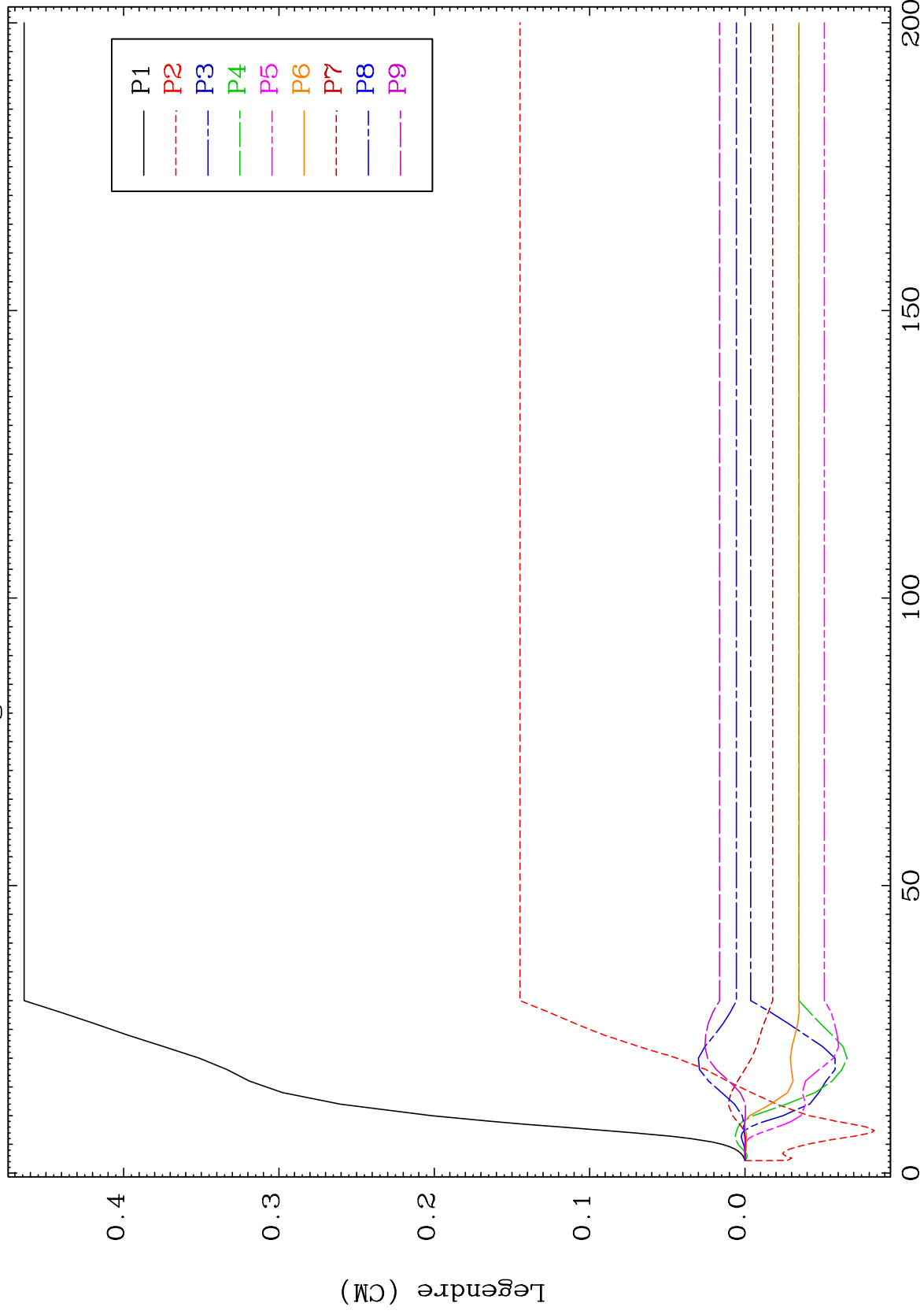
56-Ba-136



MAT 5643

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

56-Ba-136



51

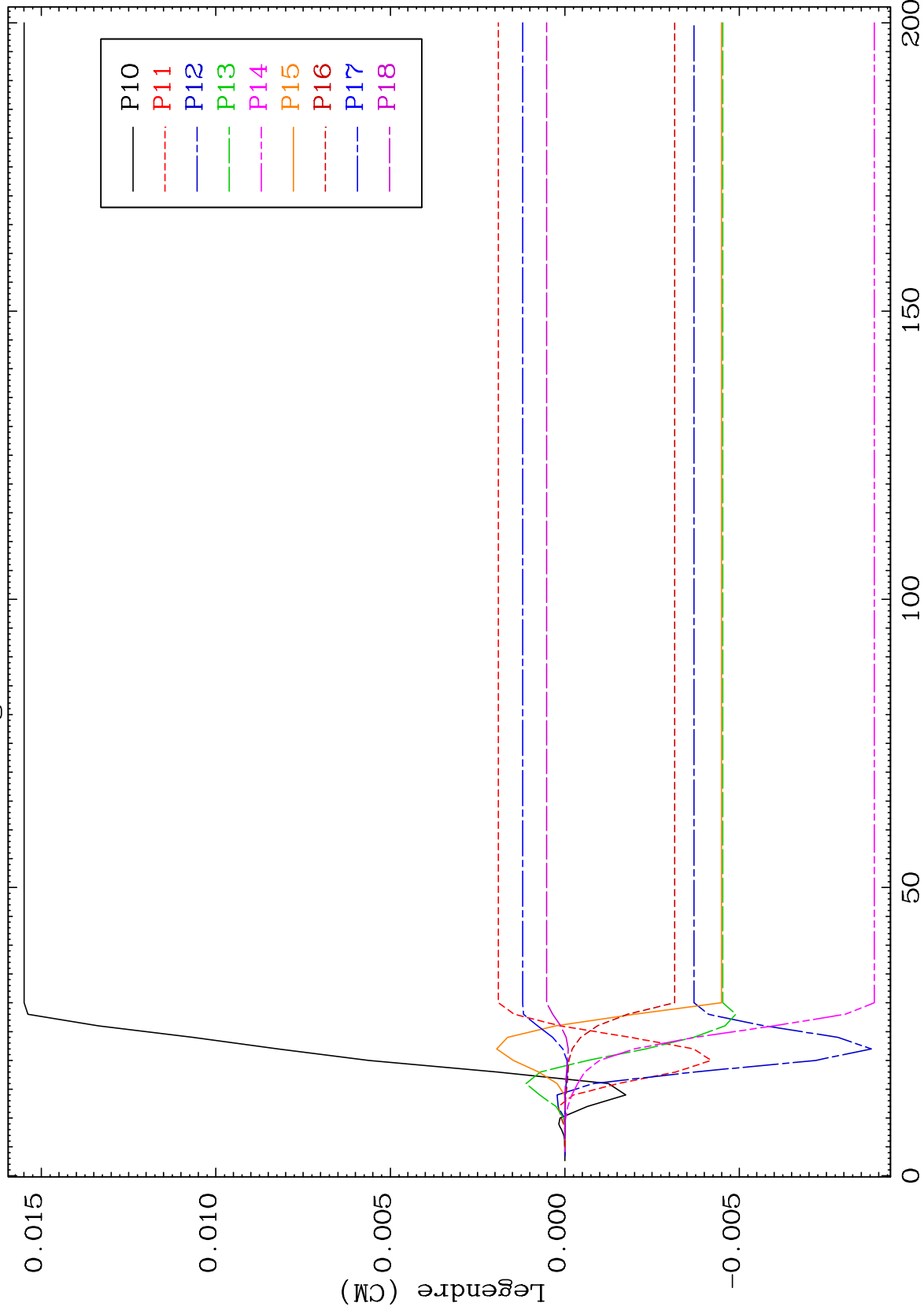
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

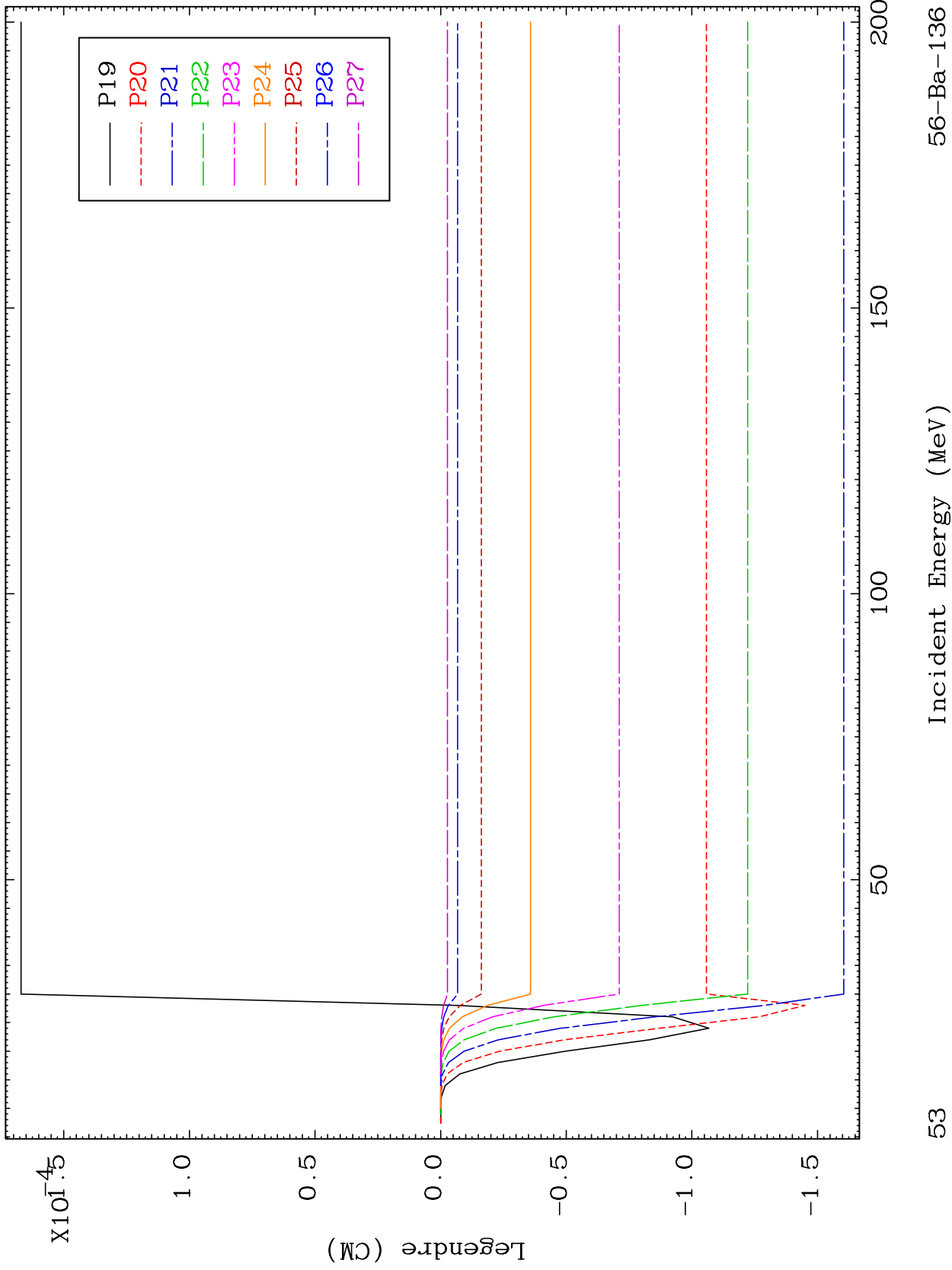
56-Ba-136



52

Incident Energy (MeV)

56-Ba-136

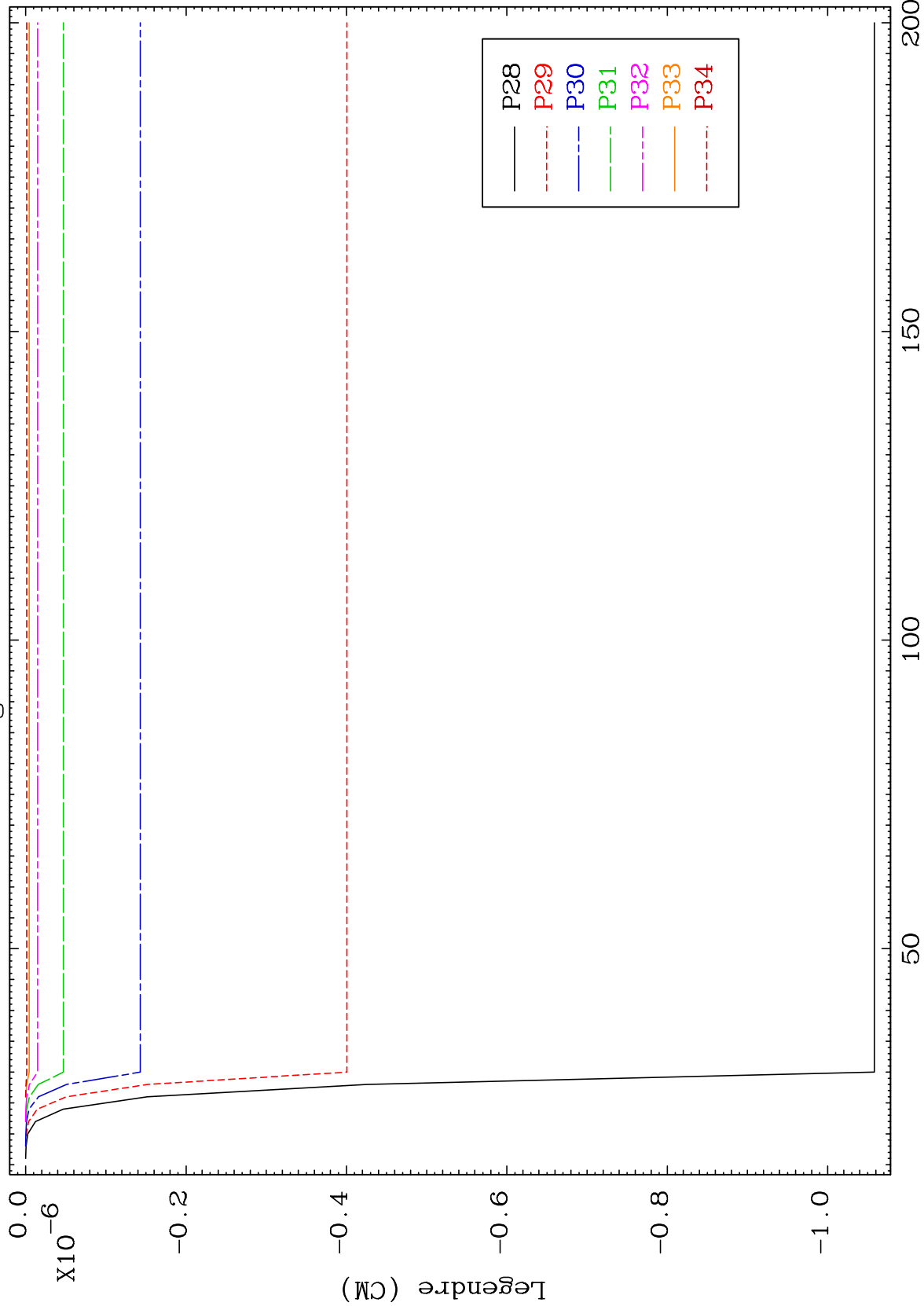


MAT 5643

MT= 59 (n,n') Level

56-Ba-136

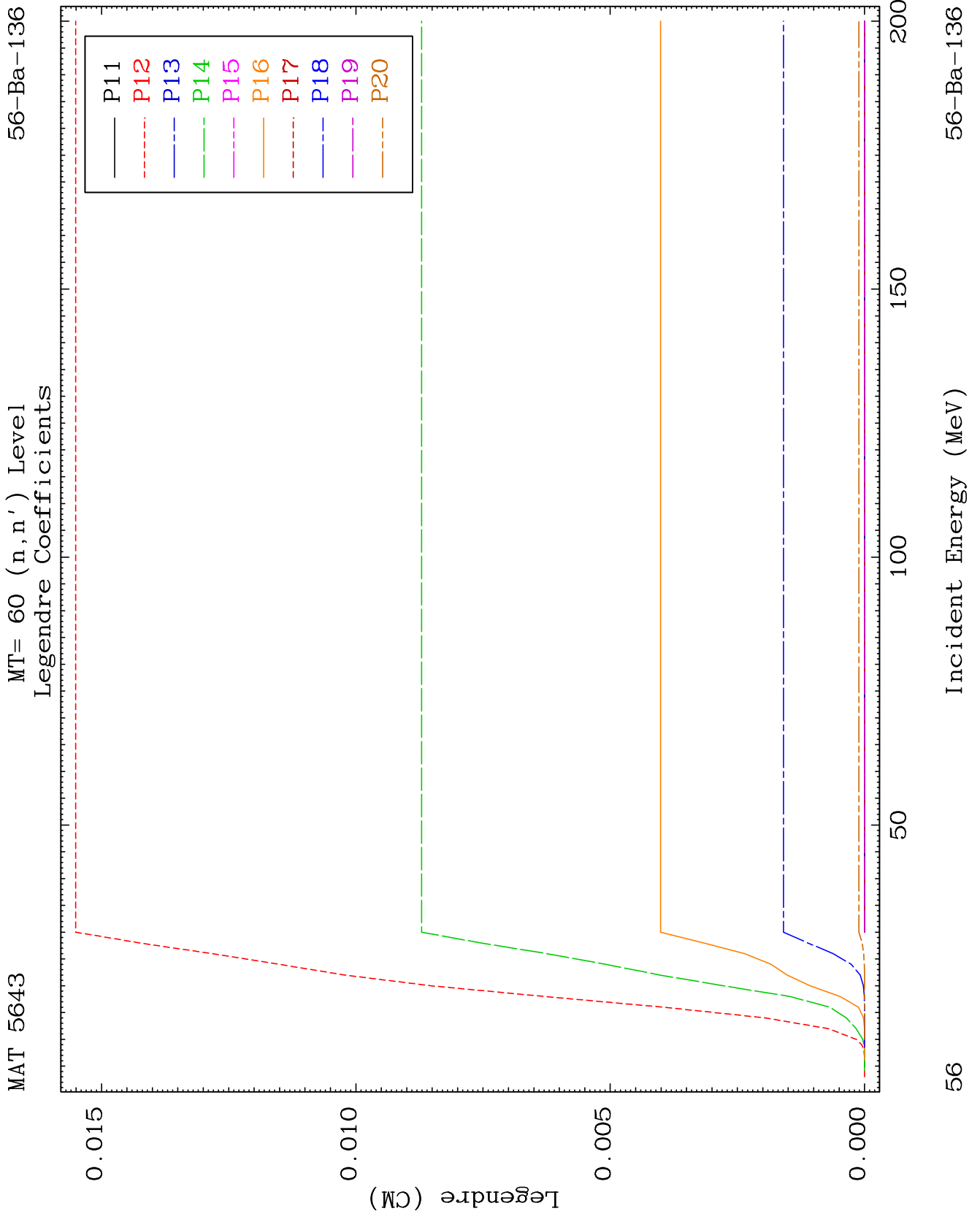
Legendre Coefficients



54

Incident Energy (MeV)

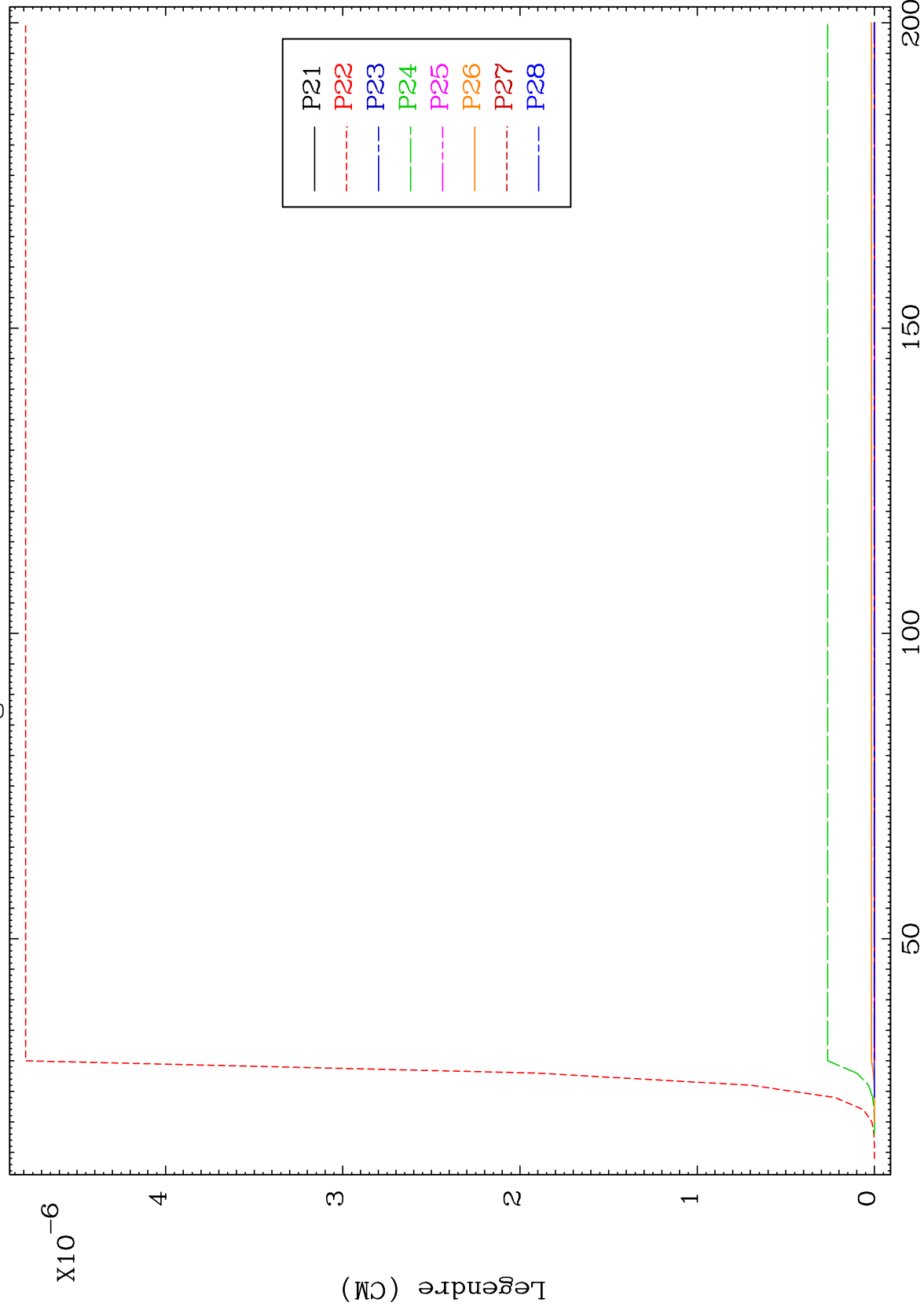
56-Ba-136



MAT 5643

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

56-Ba-136



57

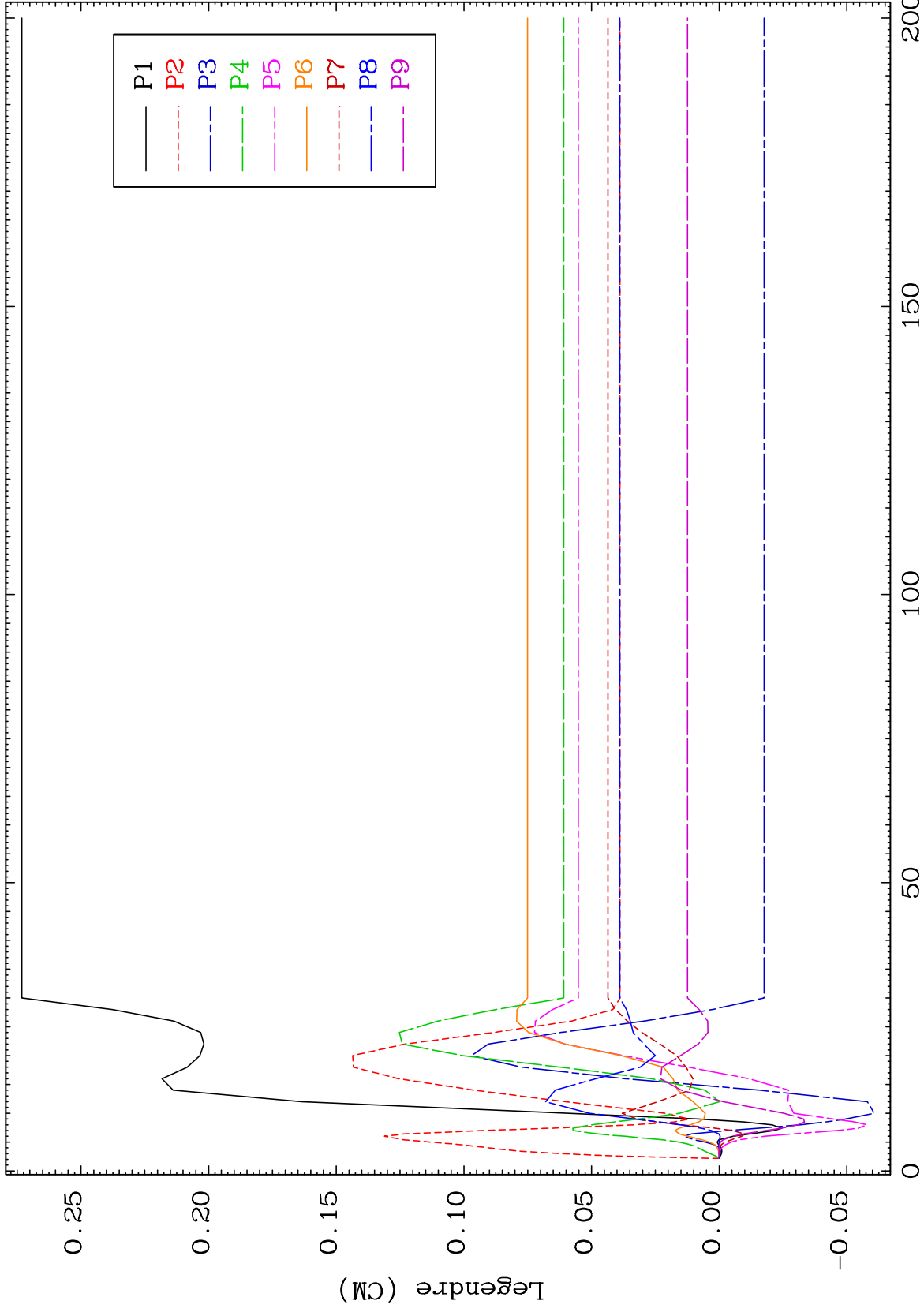
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

56-Ba-136



56-Ba-136

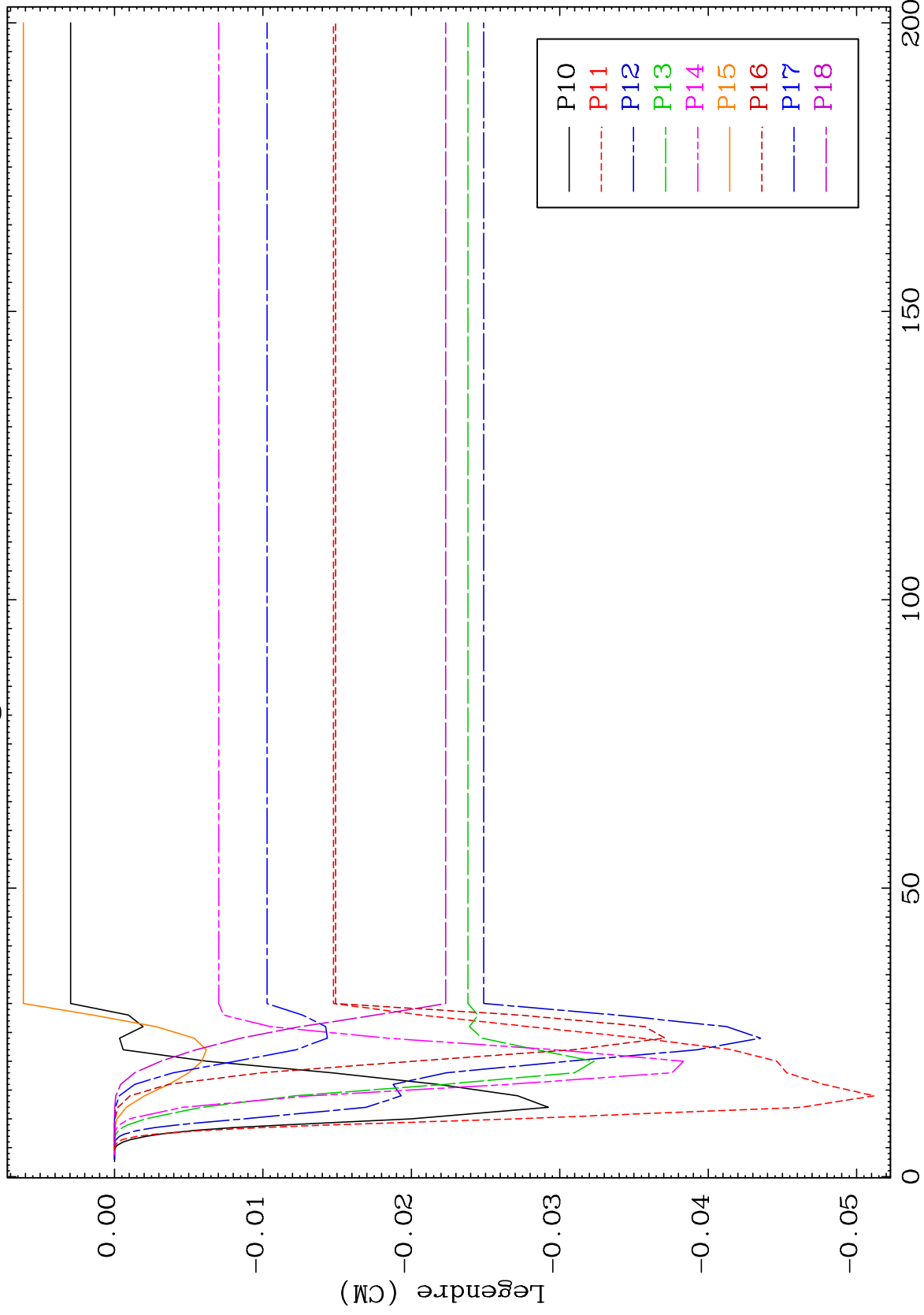
Incident Energy (MeV)

58

MAT 5643

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

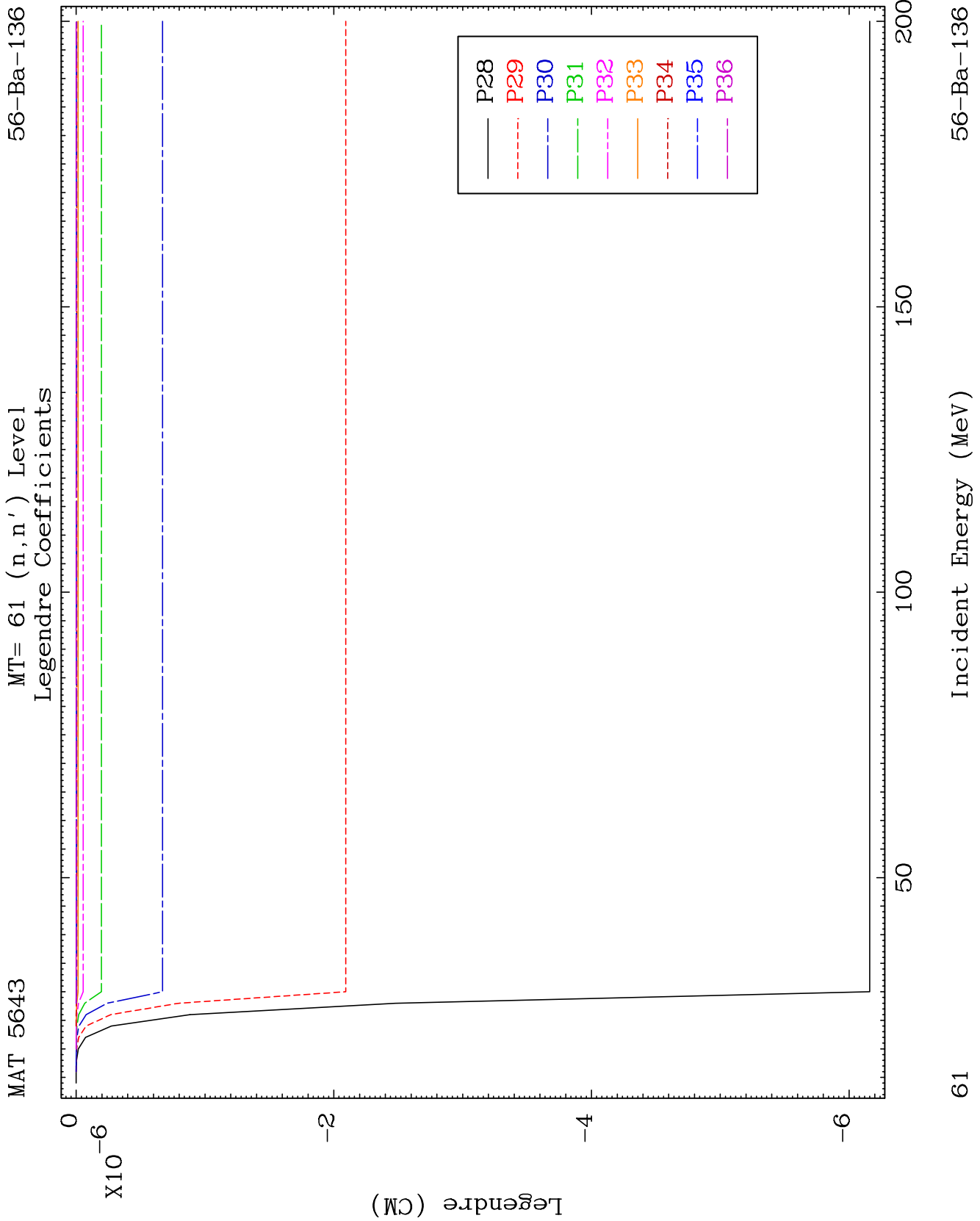
56-Ba-136



59

Incident Energy (MeV)

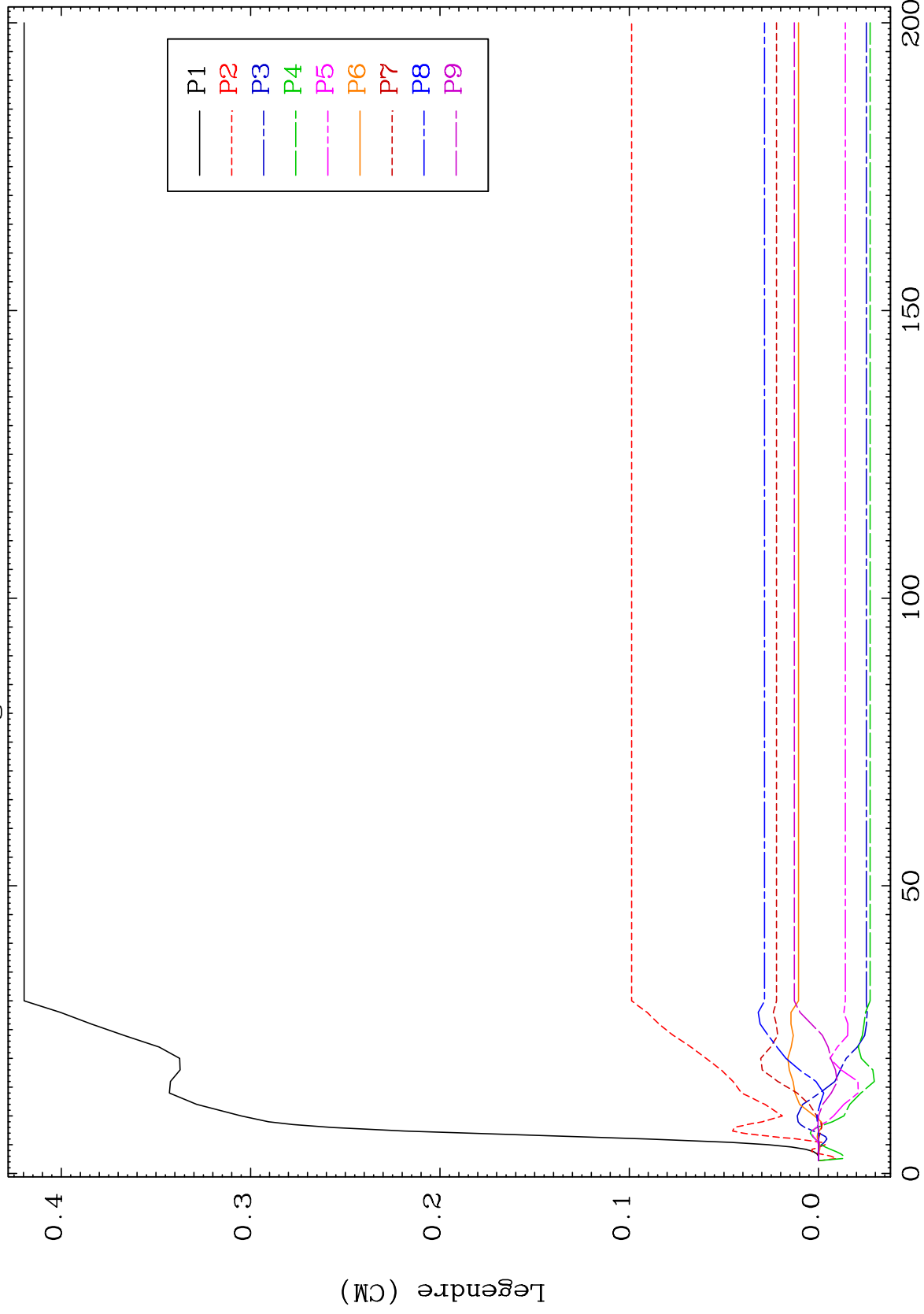
56-Ba-136



MAT 5643

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

56-Ba-136



56-Ba-136

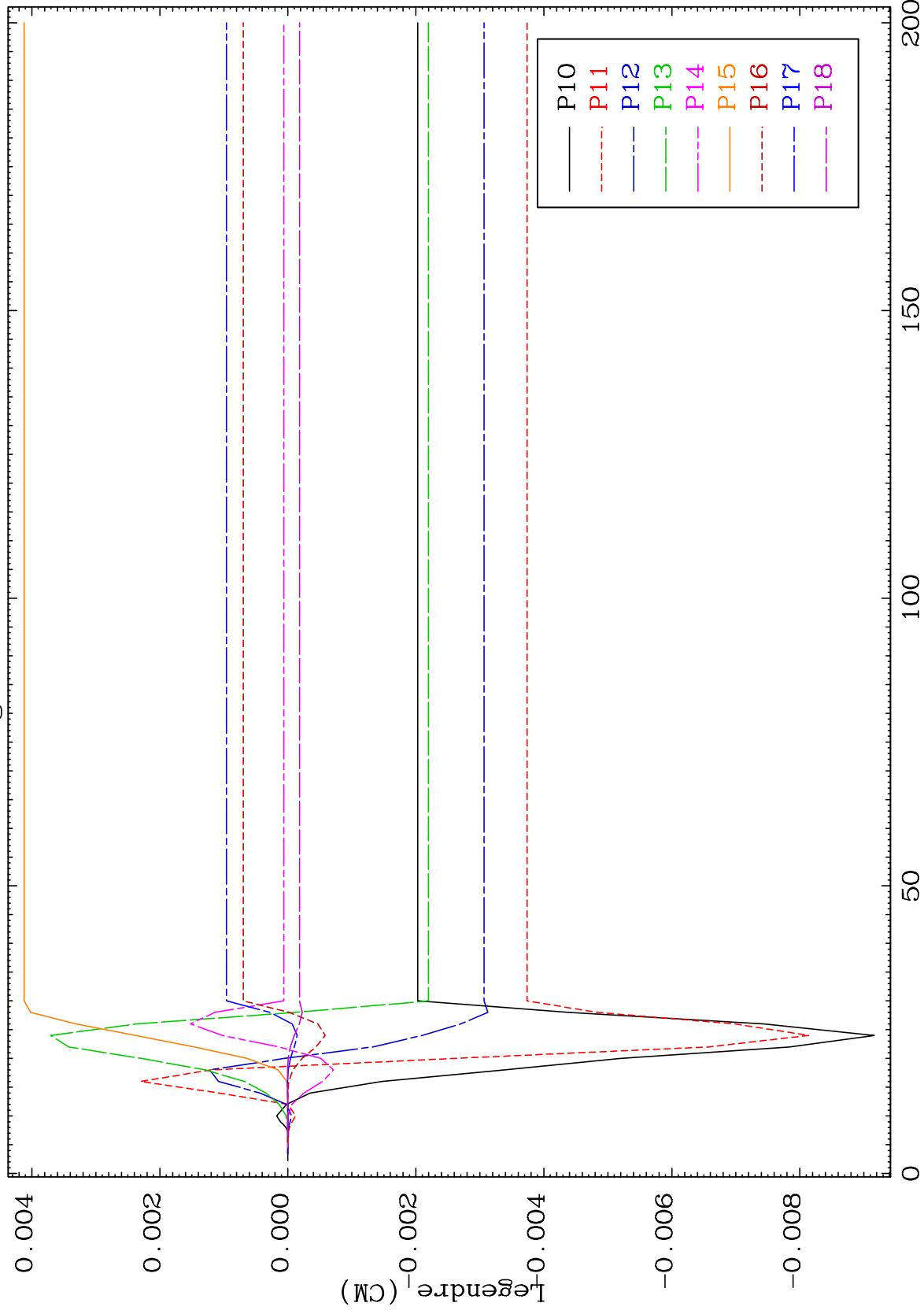
Incident Energy (MeV)

62

MAT 5643

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

56-Ba-136



63

Incident Energy (MeV)

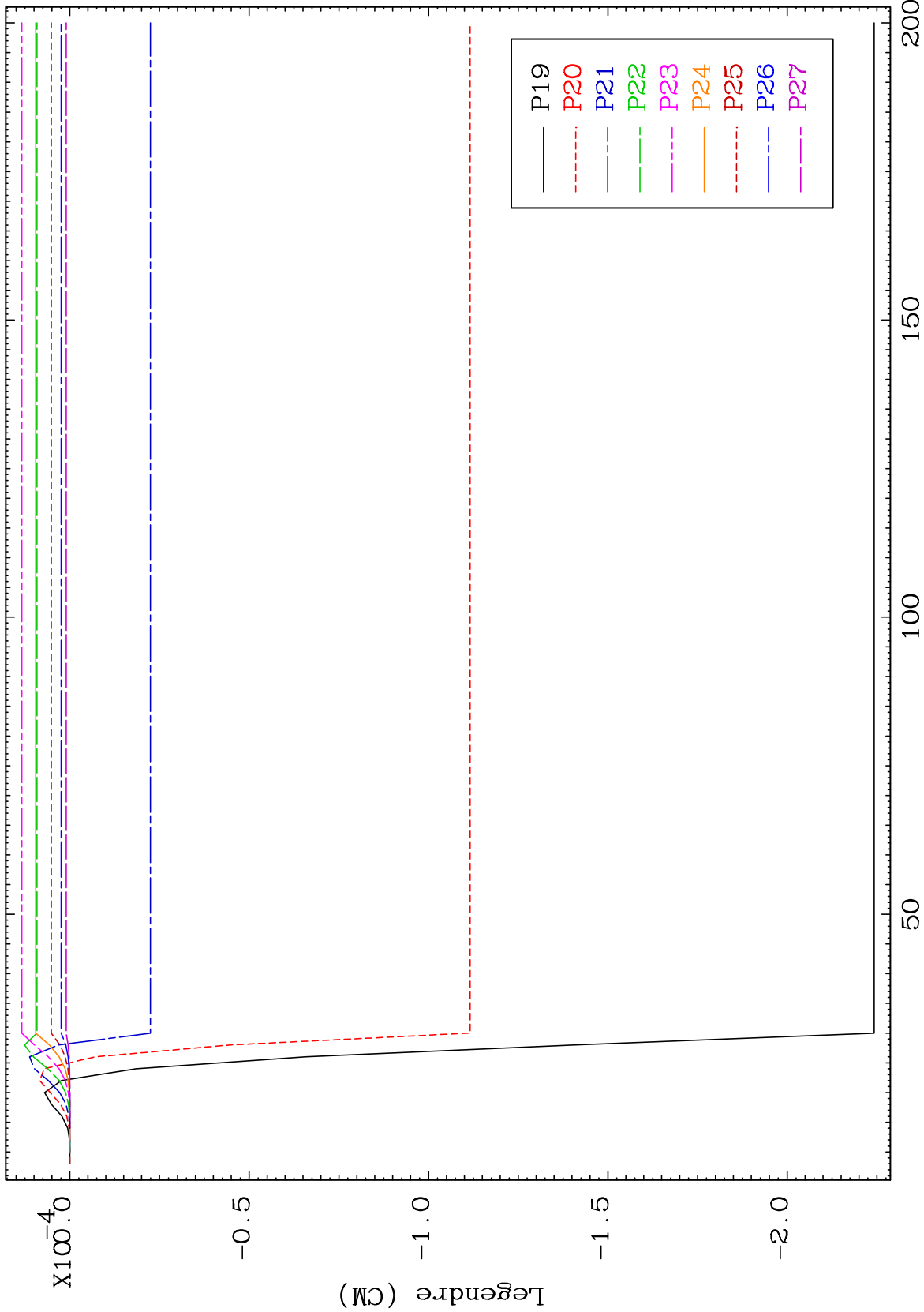
56-Ba-136

MAT 5643

MT= 62 (n,n') Level

56-Ba-136

Legendre Coefficients



64

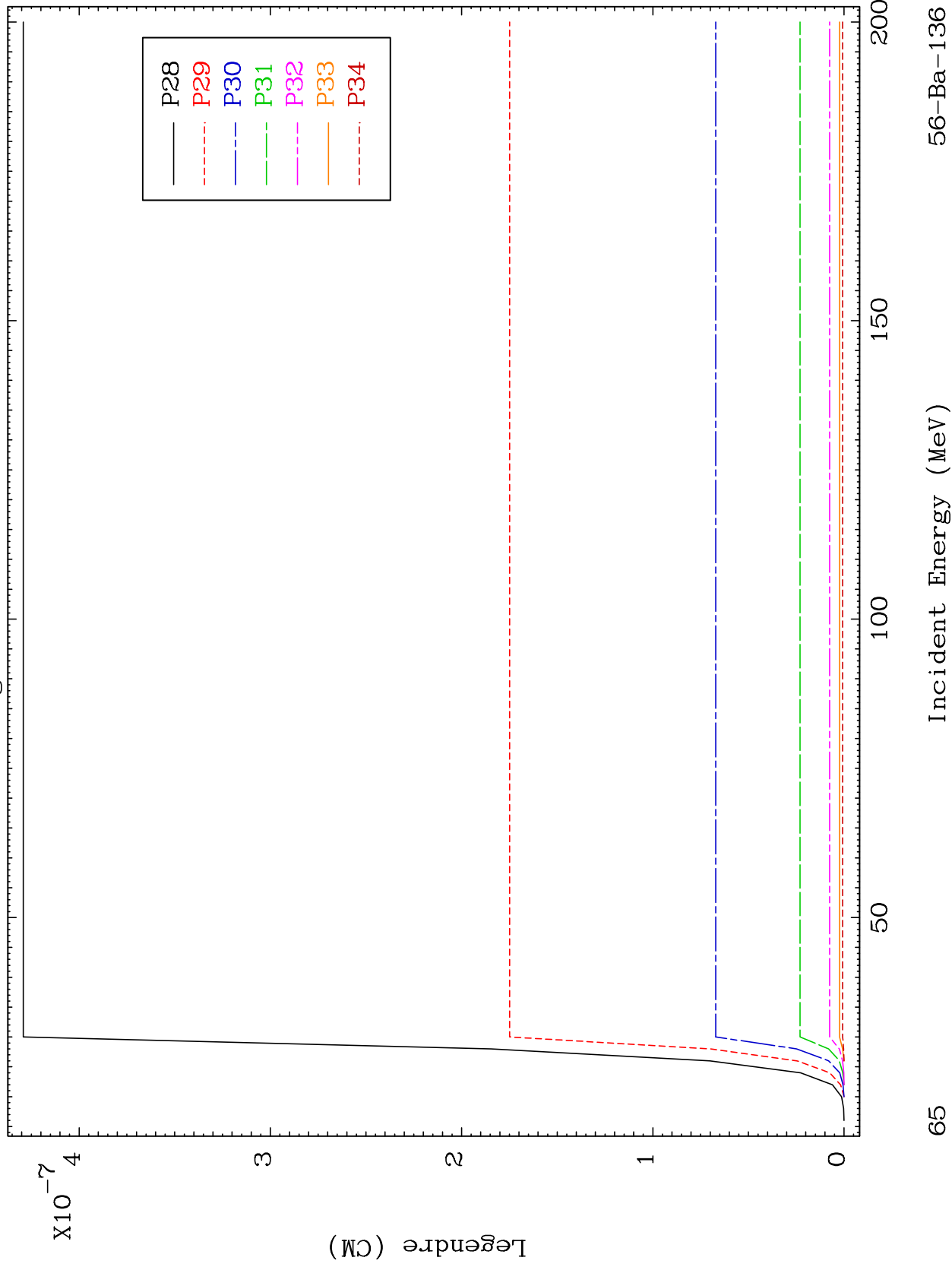
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

56-Ba-136



65

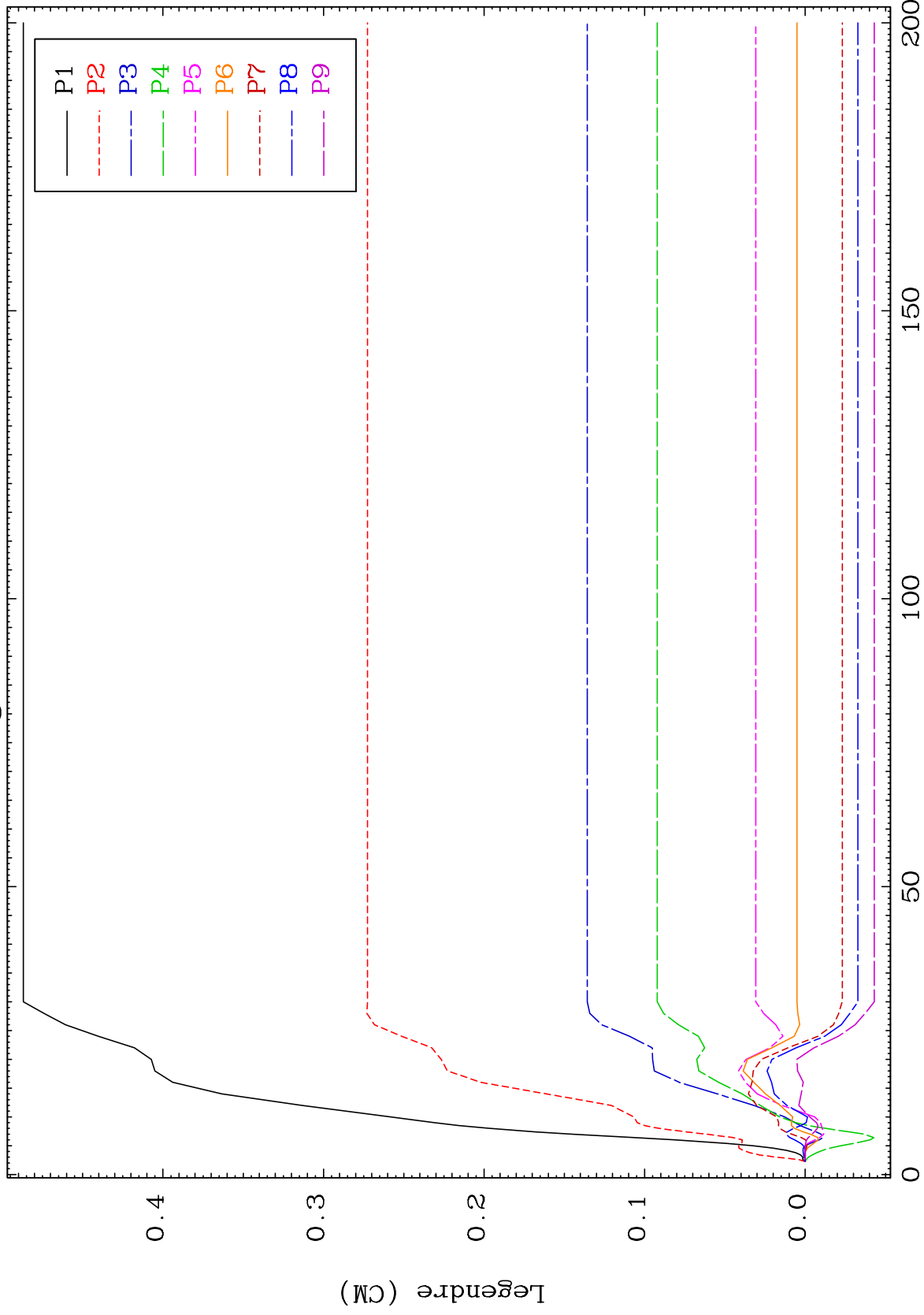
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

56-Ba-136



66

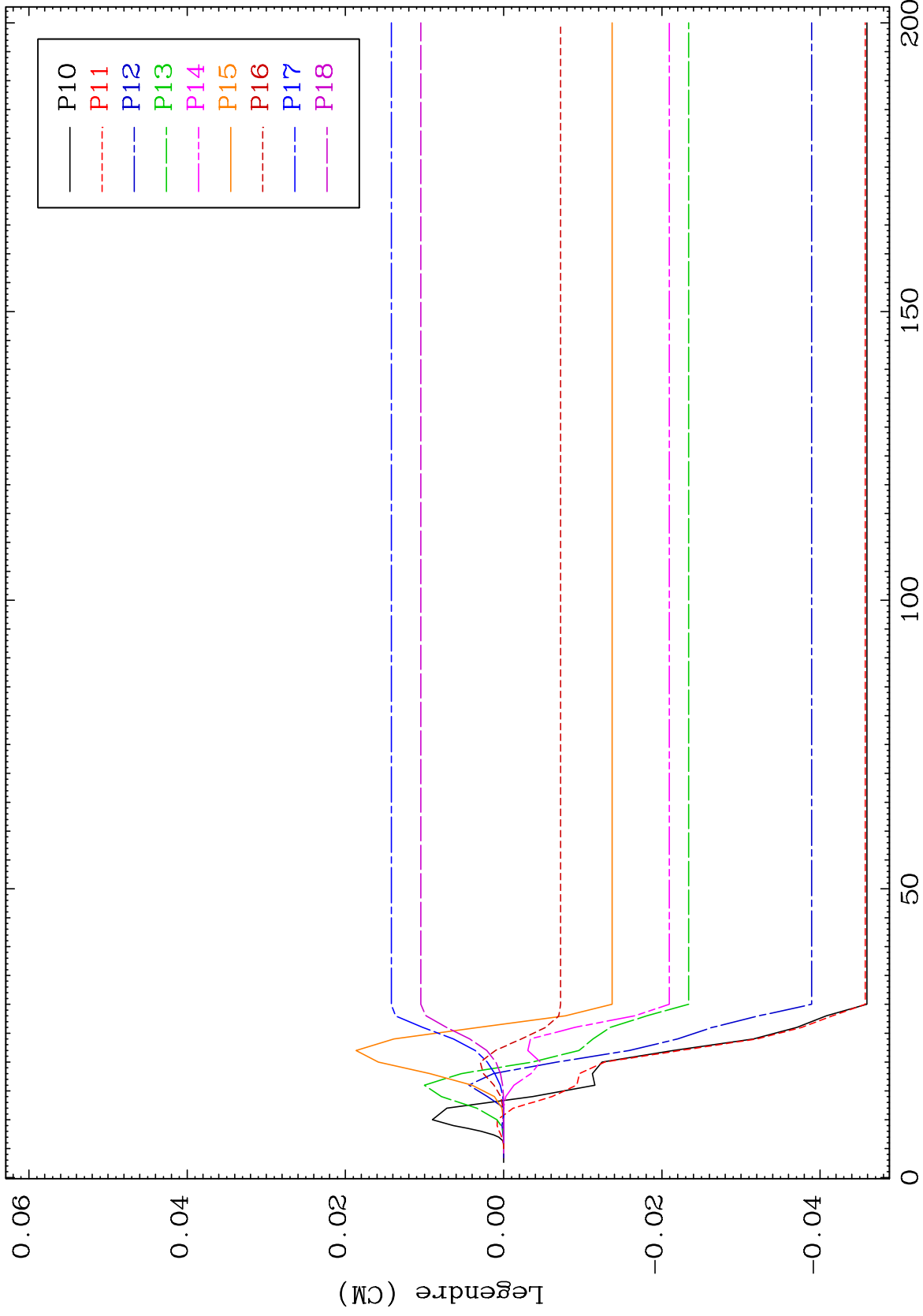
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

56-Ba-136



67

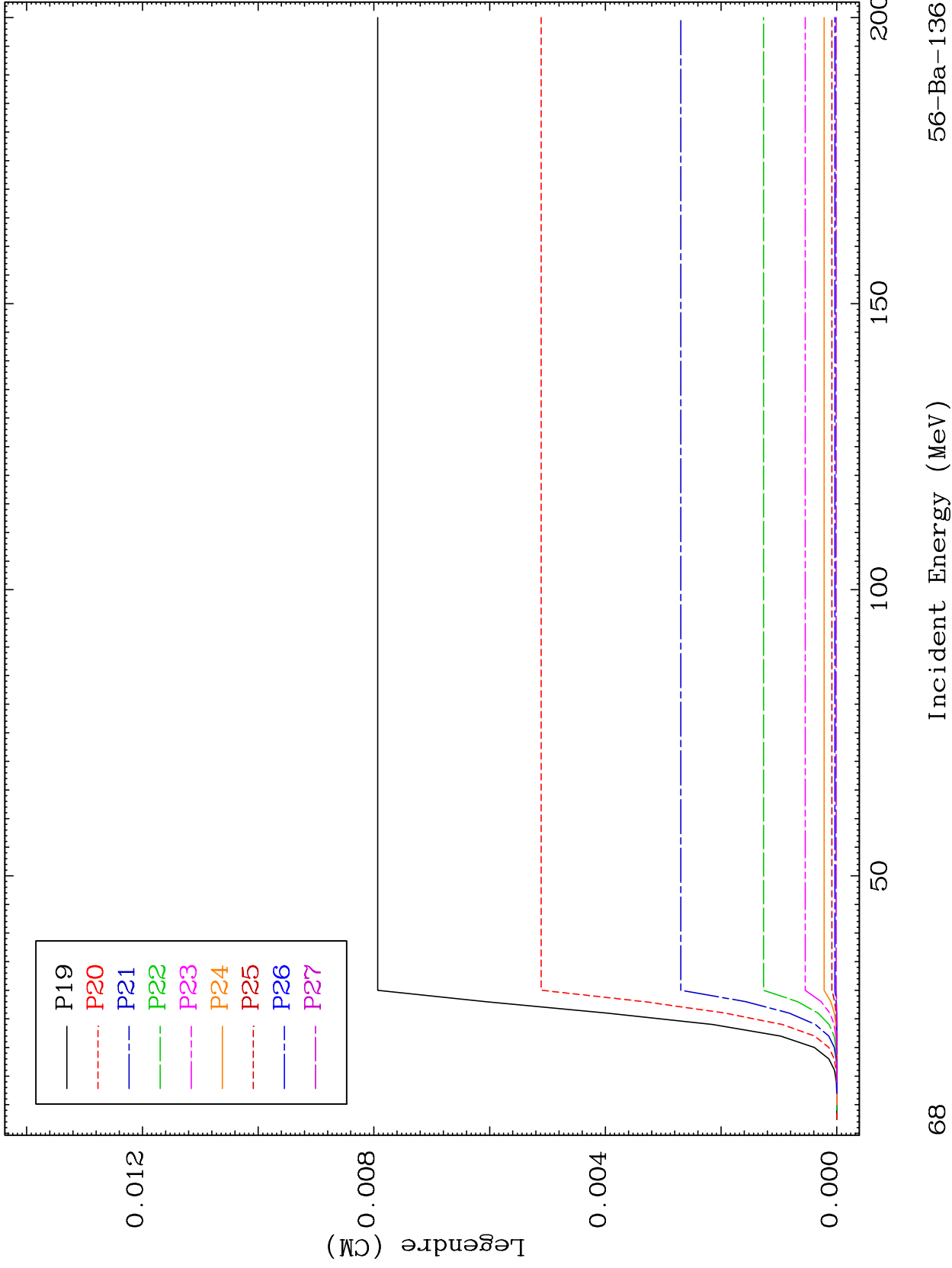
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

56-Ba-136



68

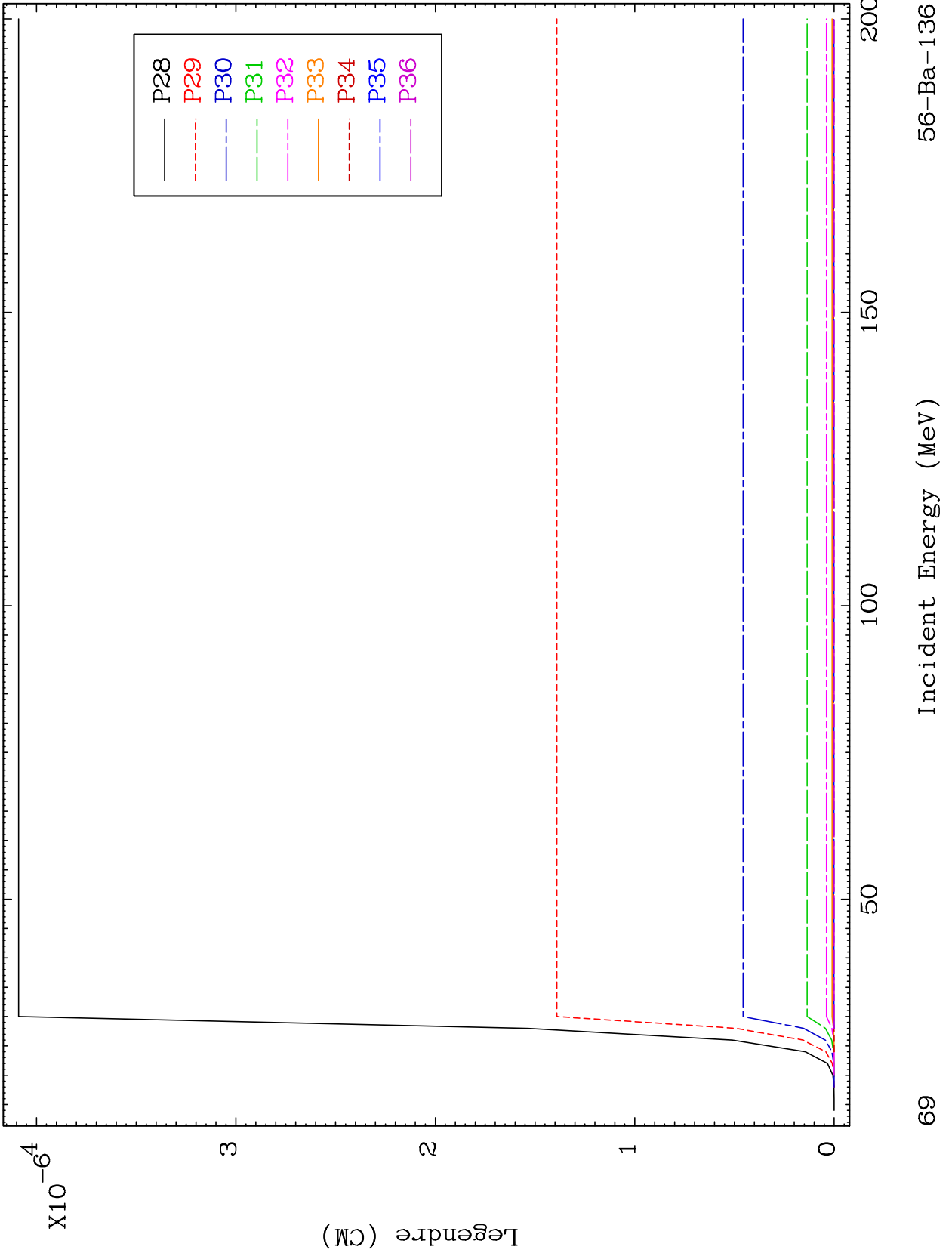
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

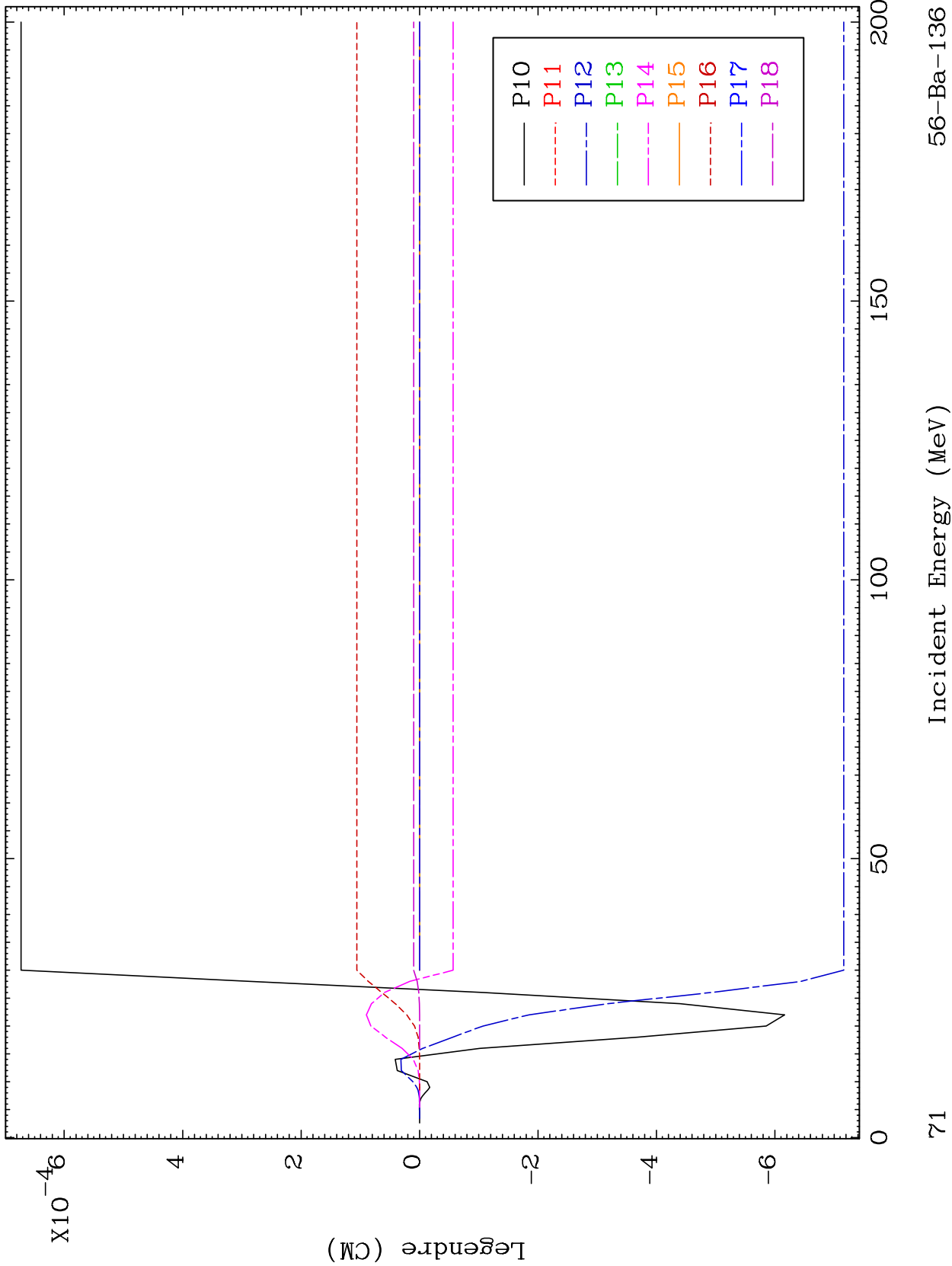
56-Ba-136



MAT 5643

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

56-Ba-136



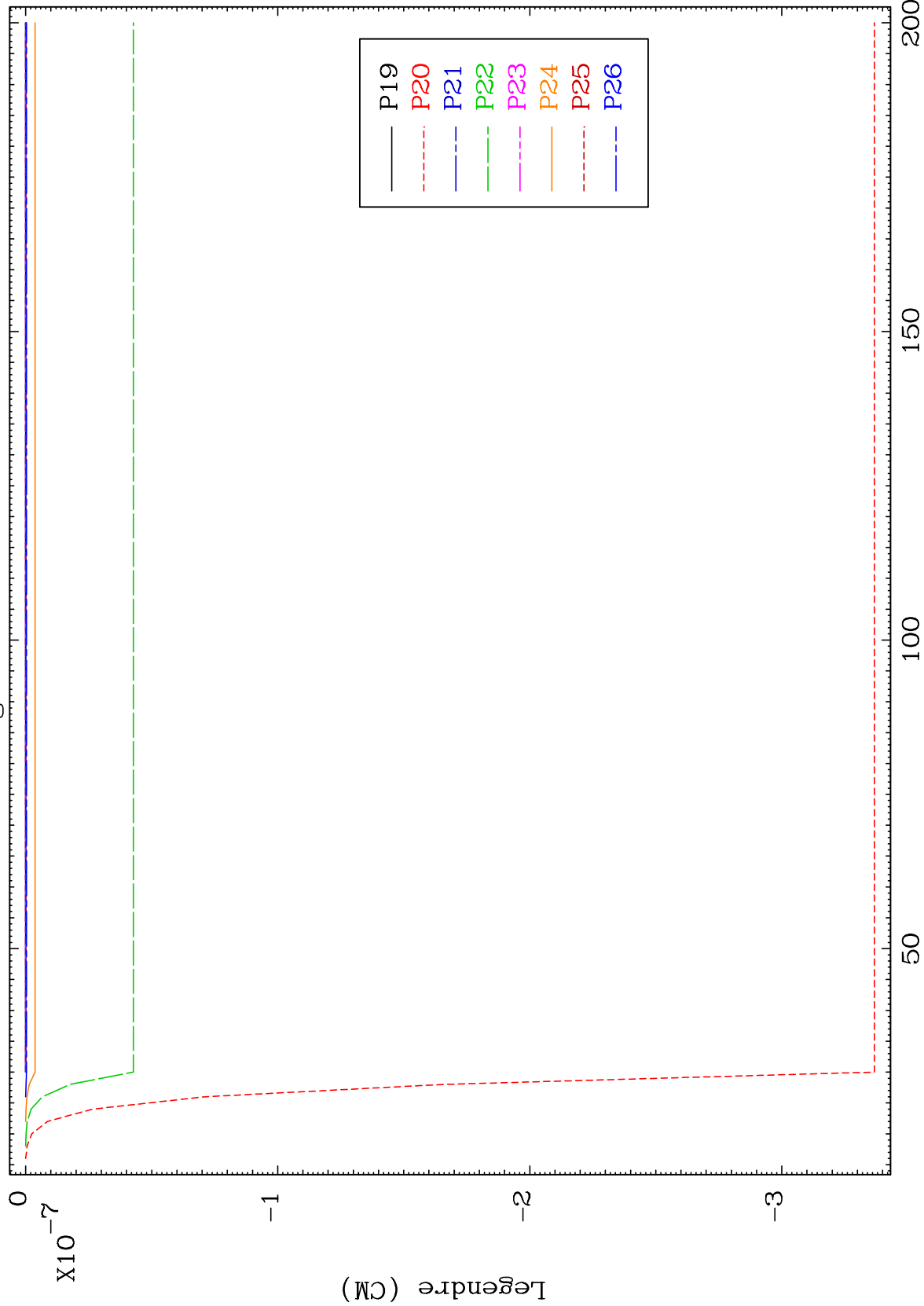
71

56-Ba-136

MAT 5643

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

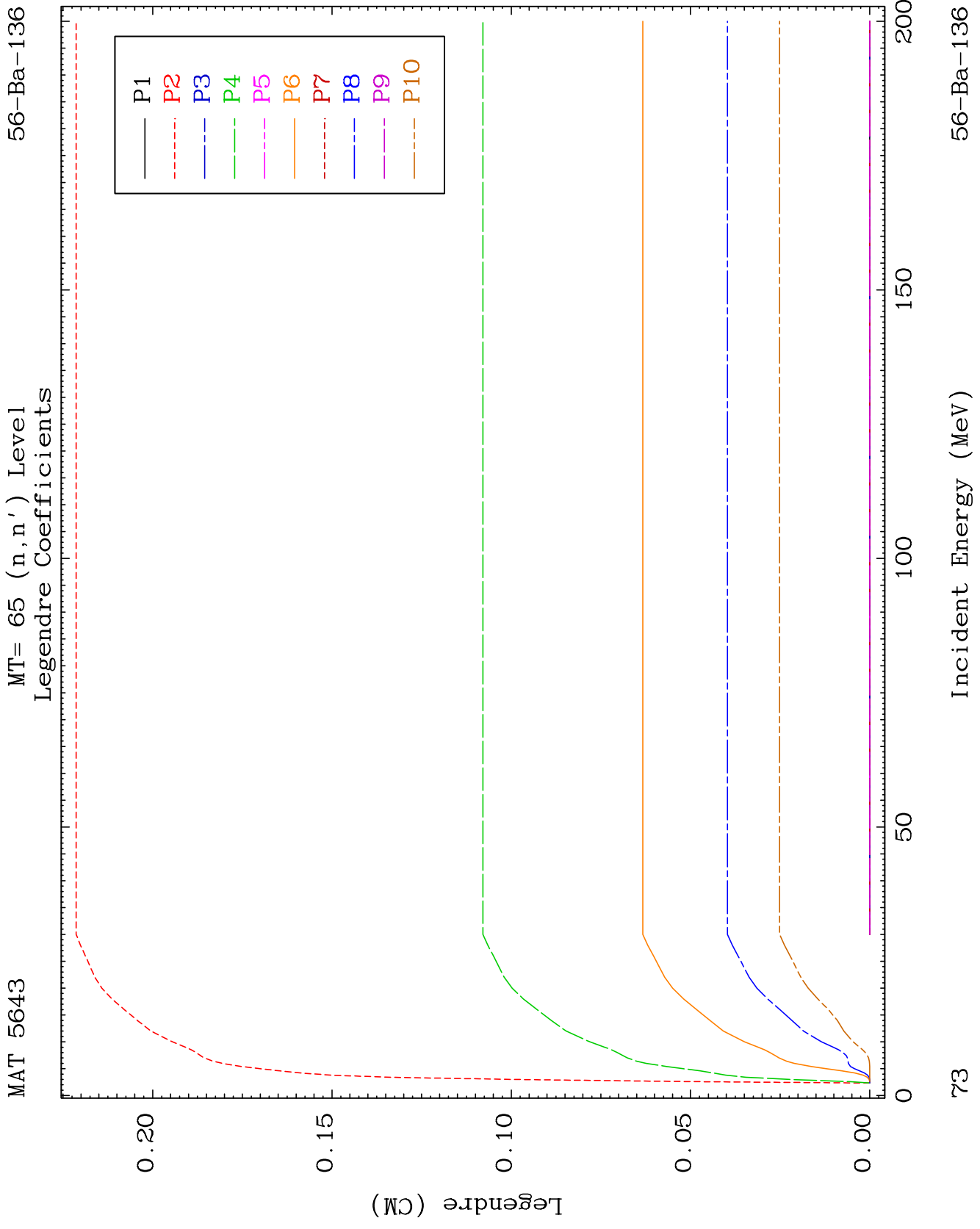
56-Ba-136



56-Ba-136

Incident Energy (MeV)

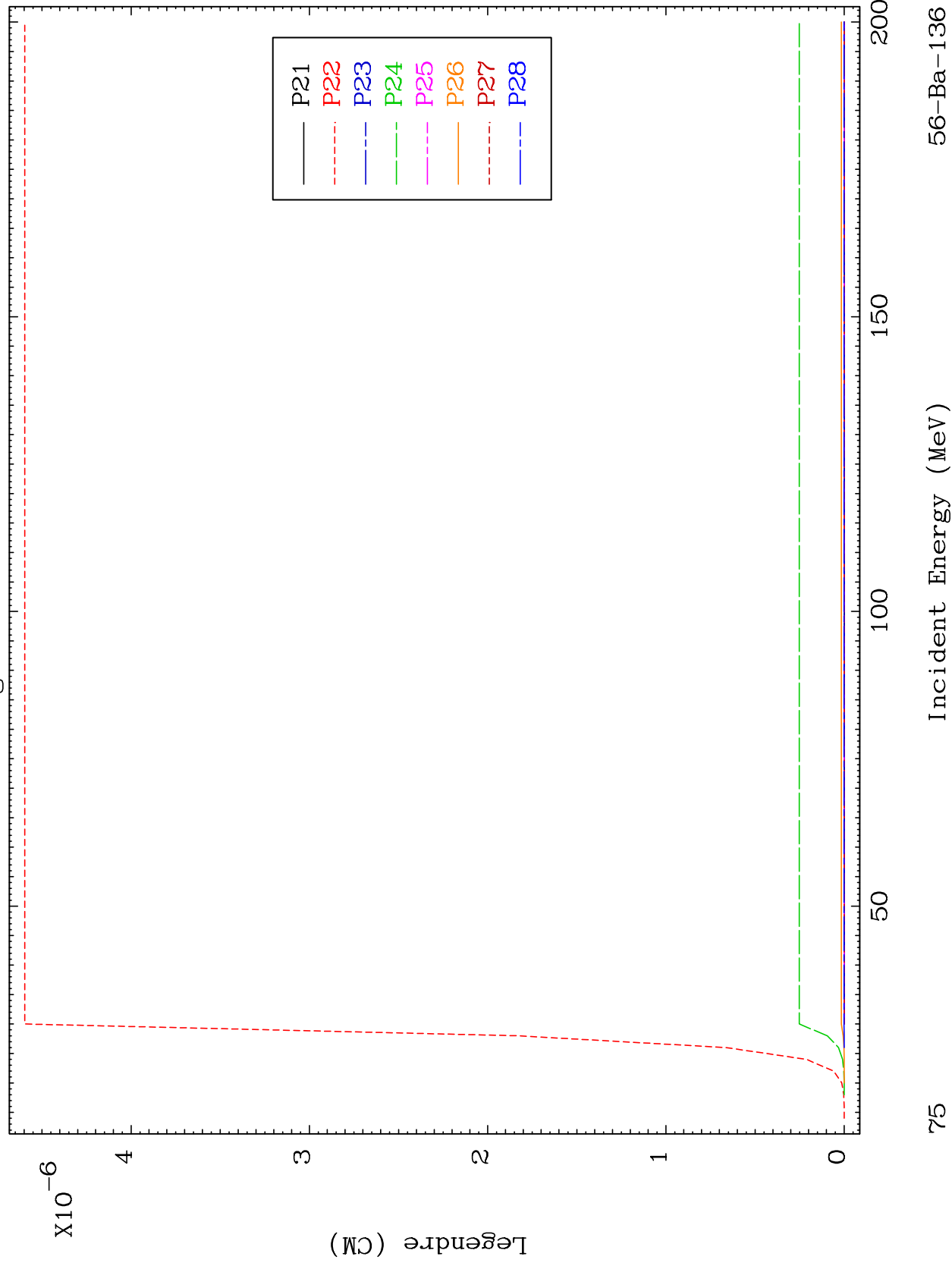
72



MAT 5643

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

56-Ba-136



75

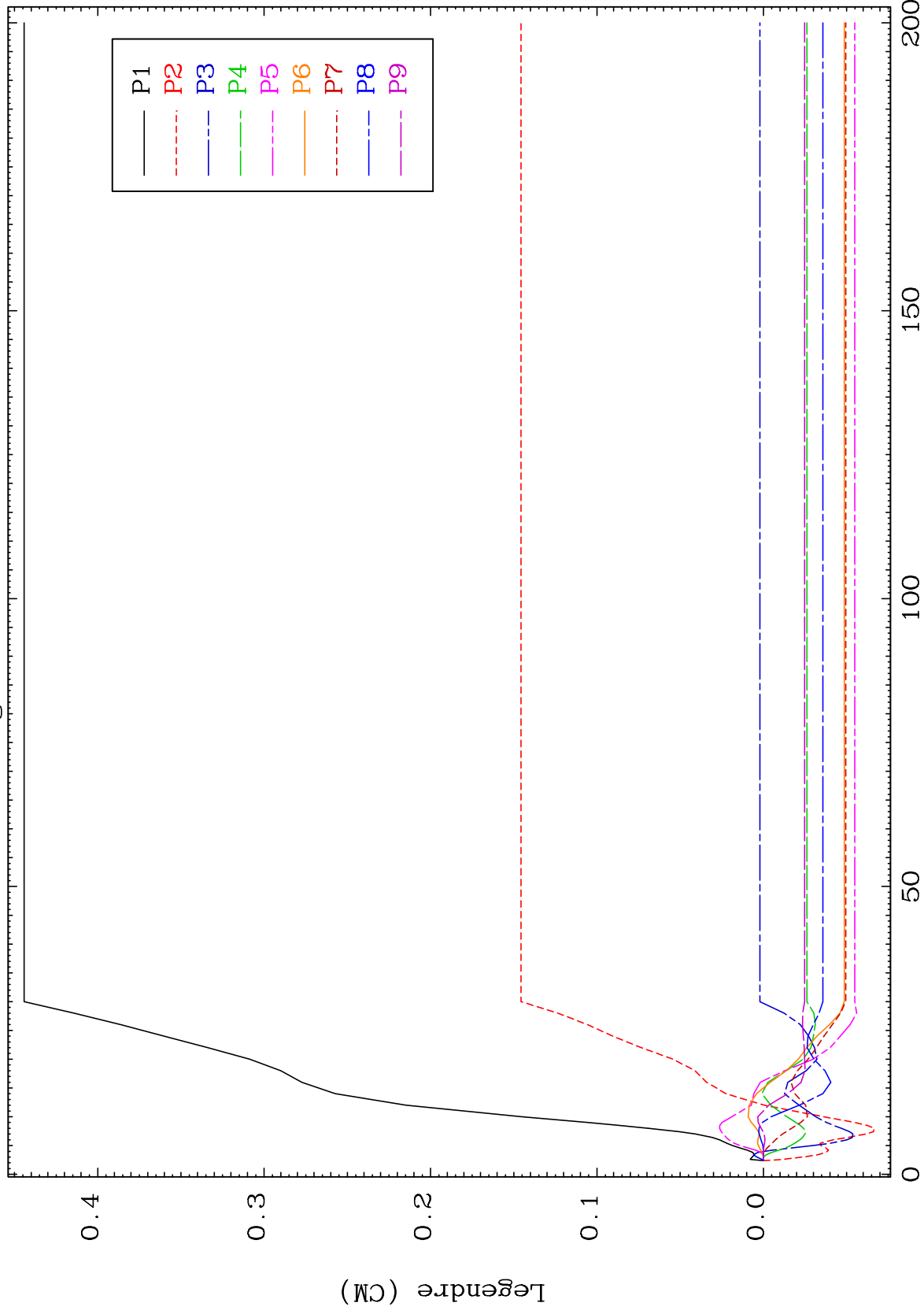
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

56-Ba-136



76

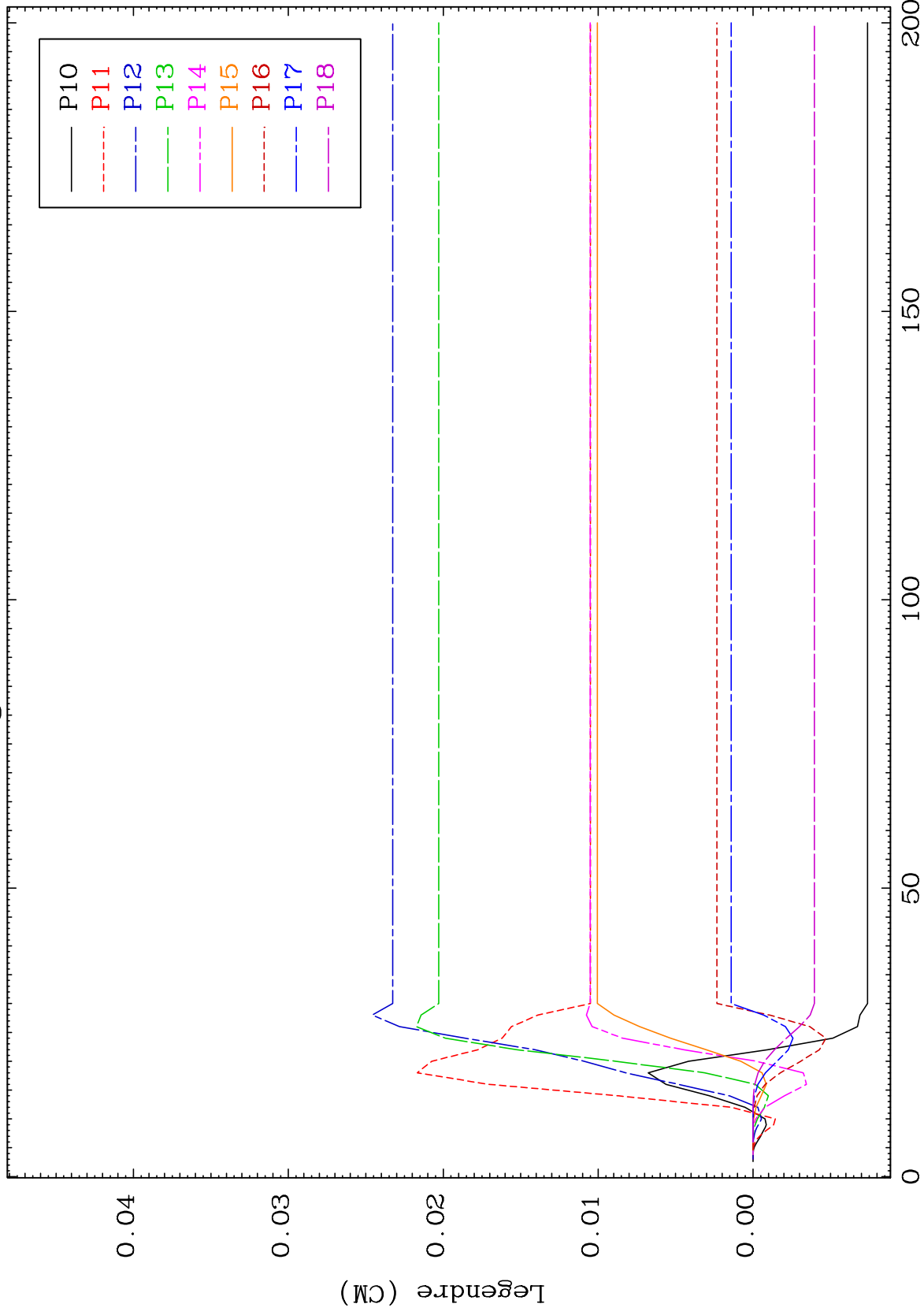
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

56-Ba-136



77

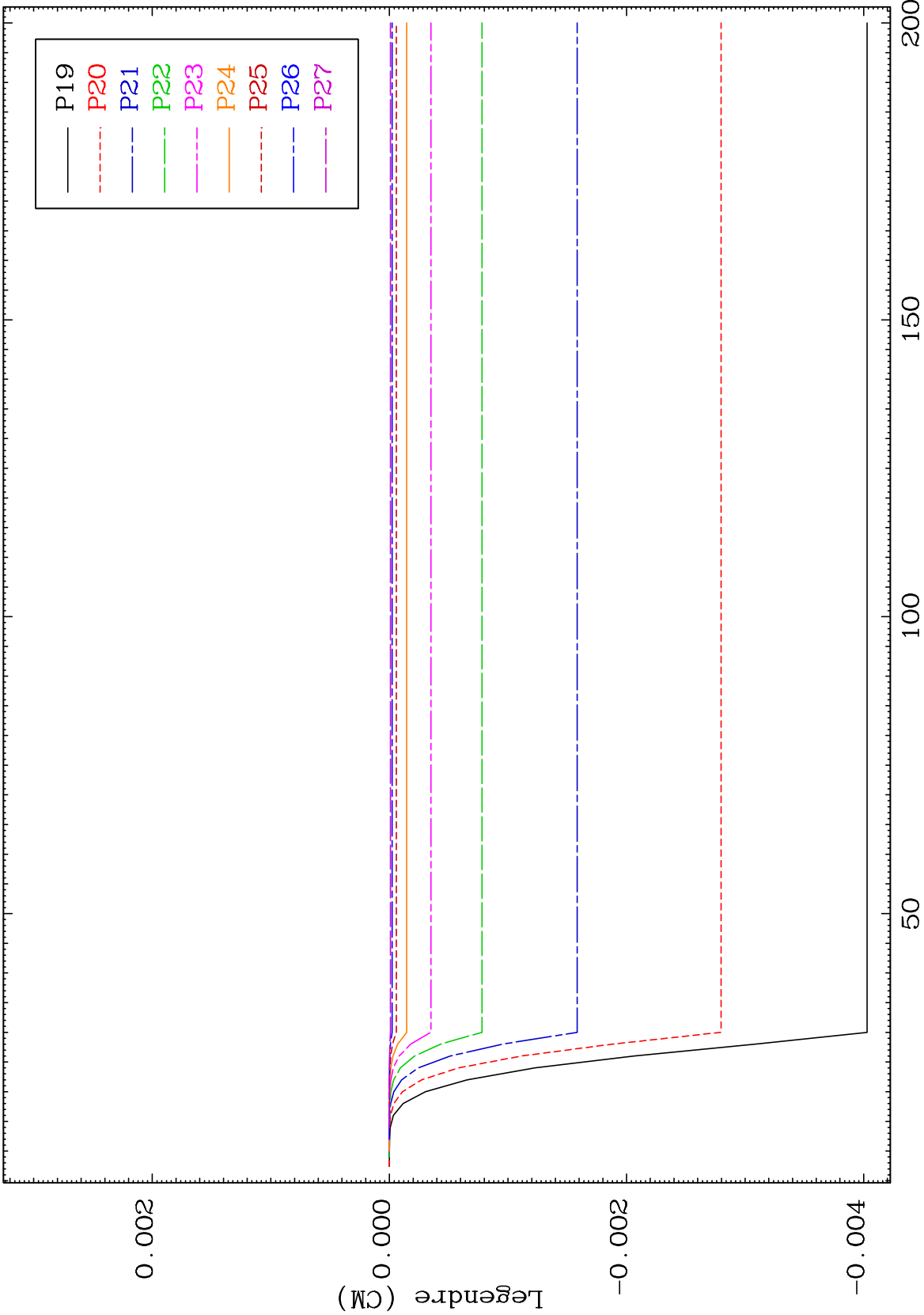
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

56-Ba-136



78

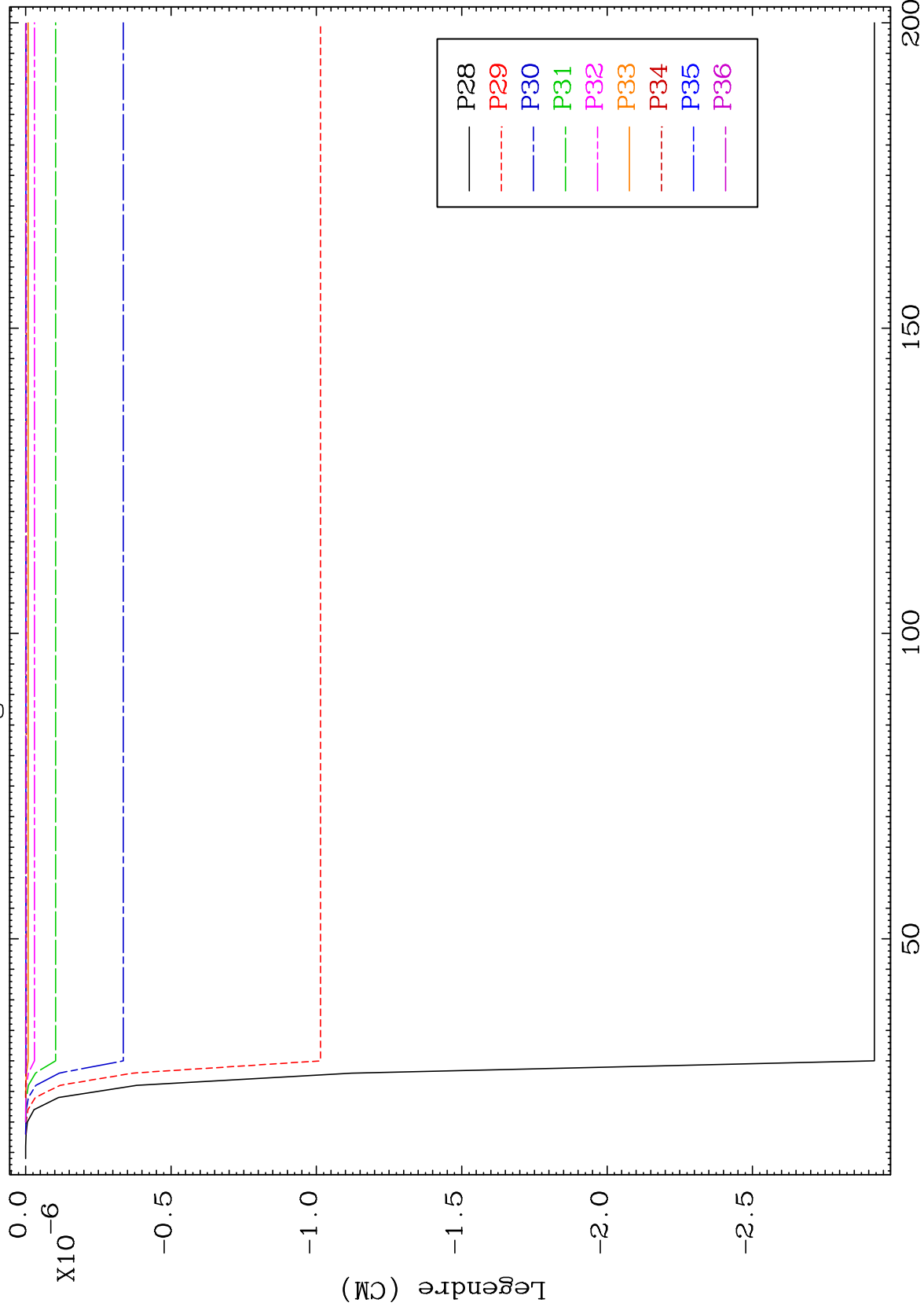
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

56-Ba-136



79

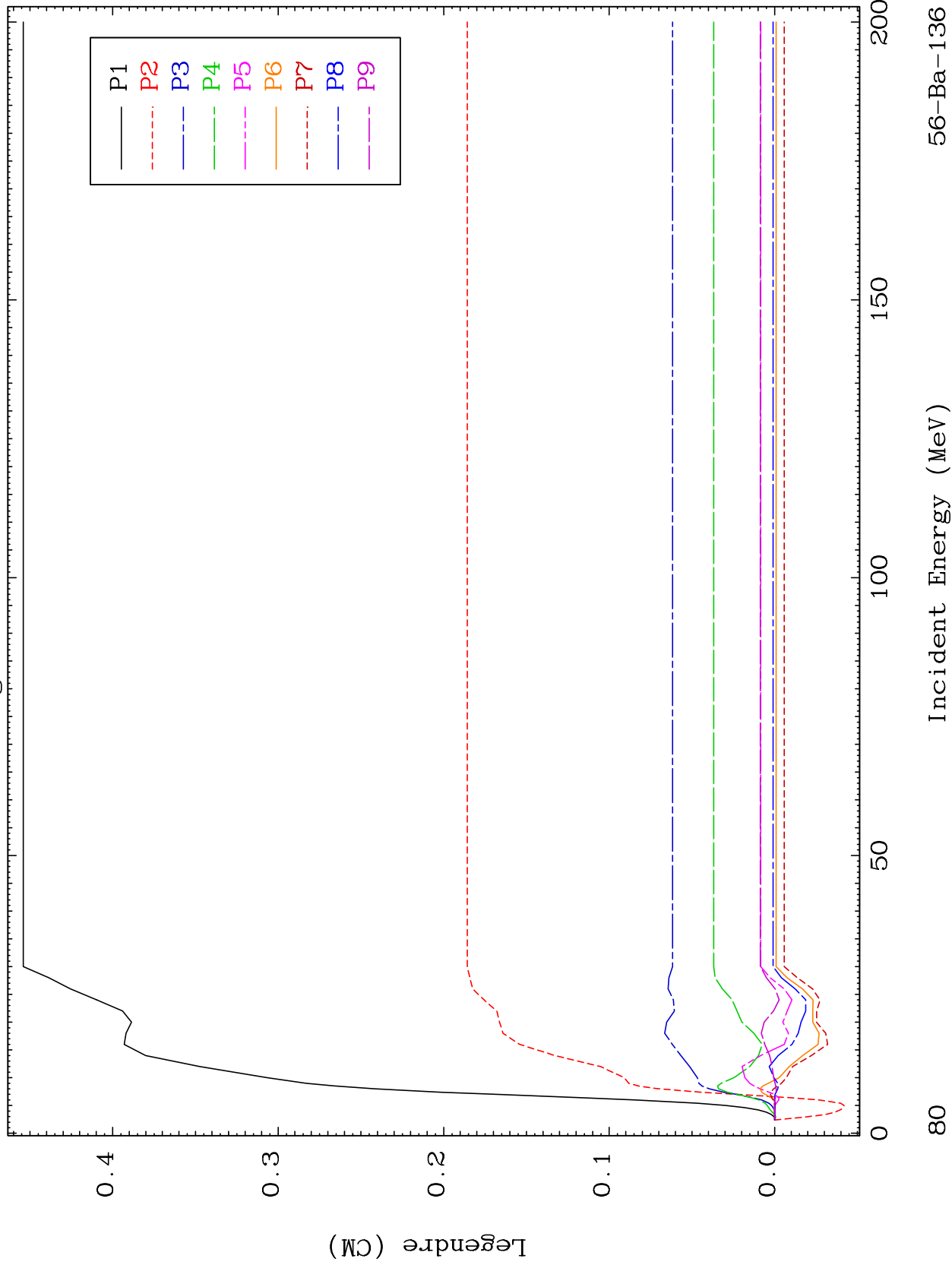
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

56-Ba-136



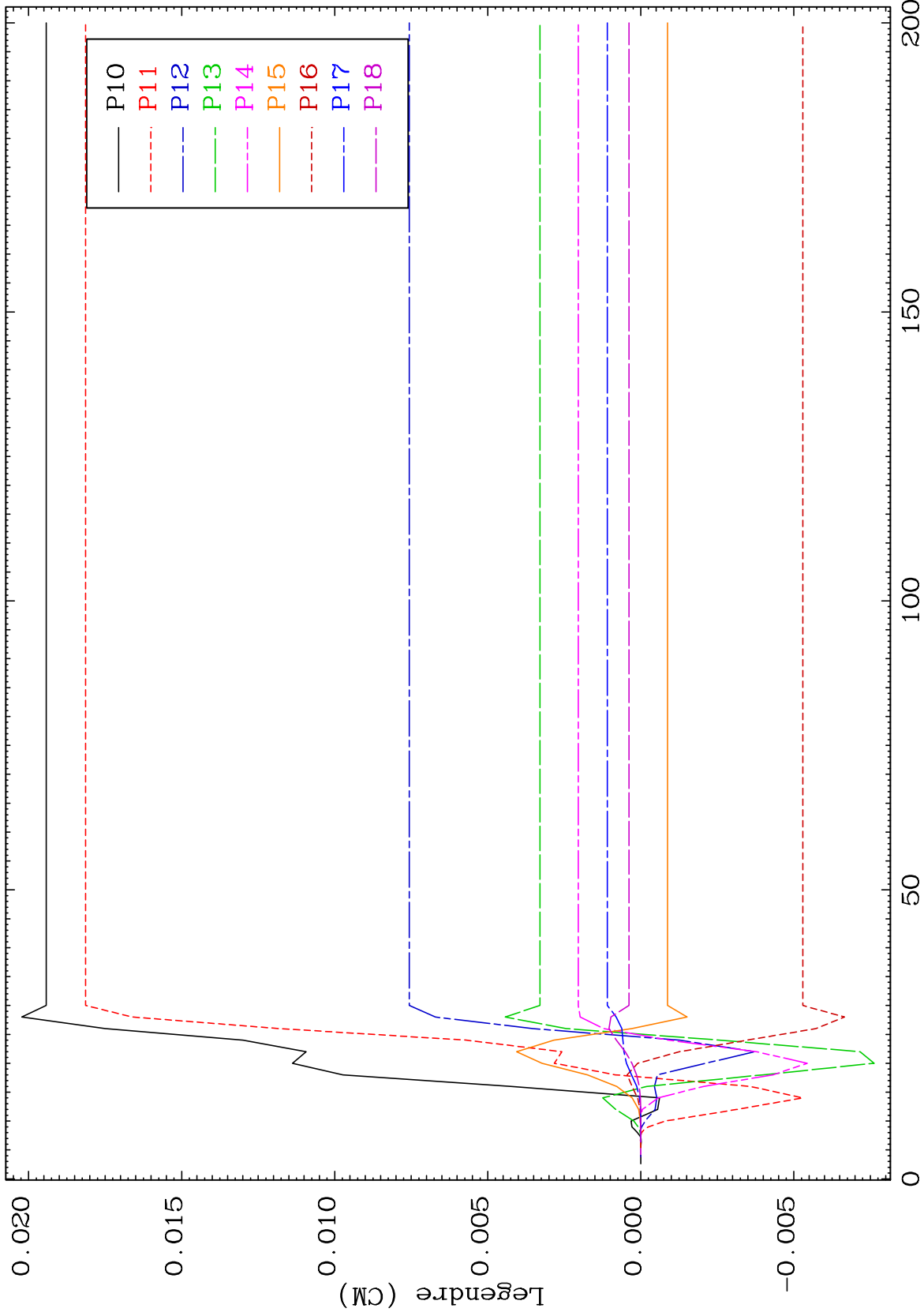
56-Ba-136

Incident Energy (MeV)

MAT 5643

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

56-Ba-136



81

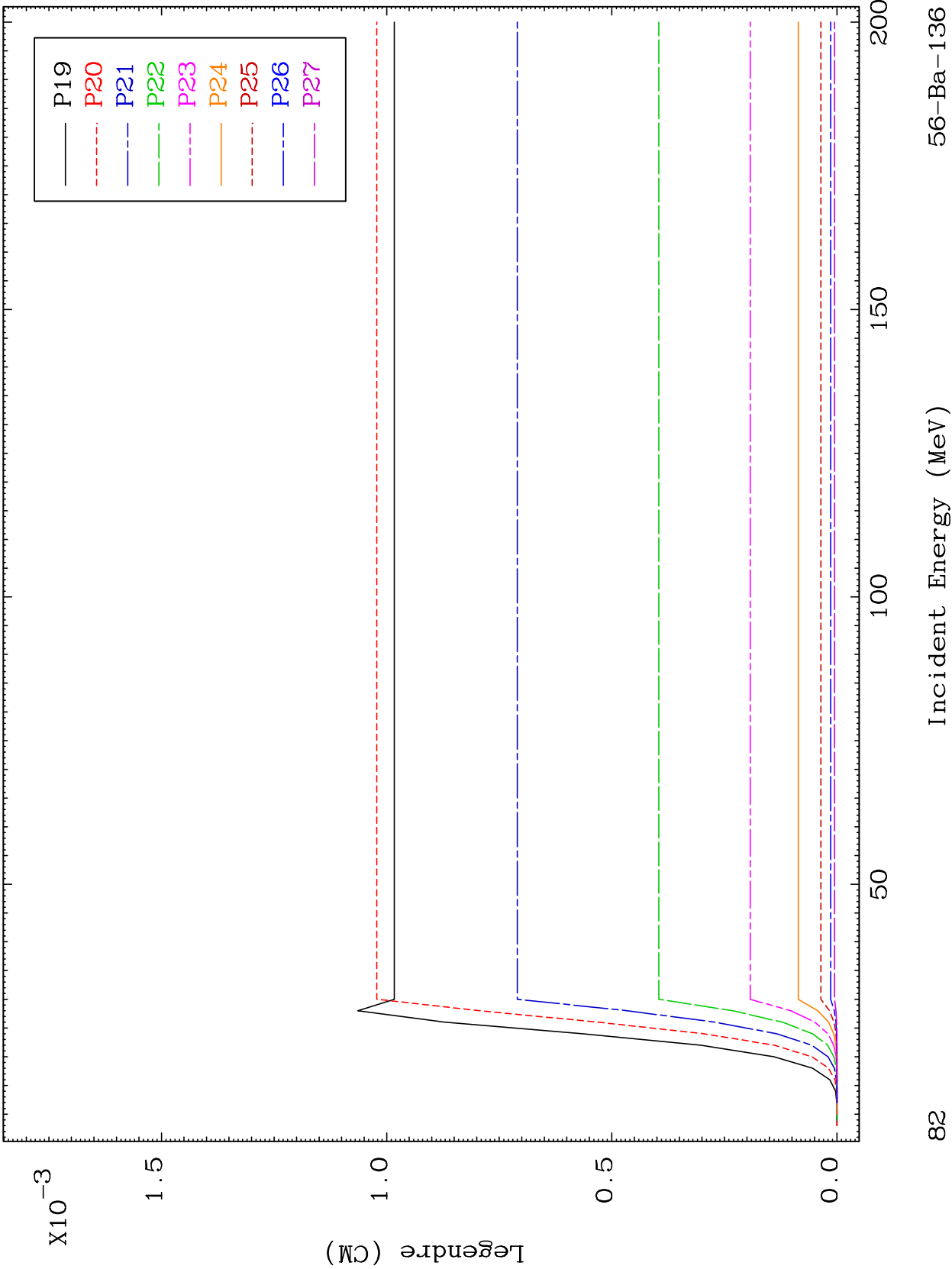
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

56-Ba-136



82

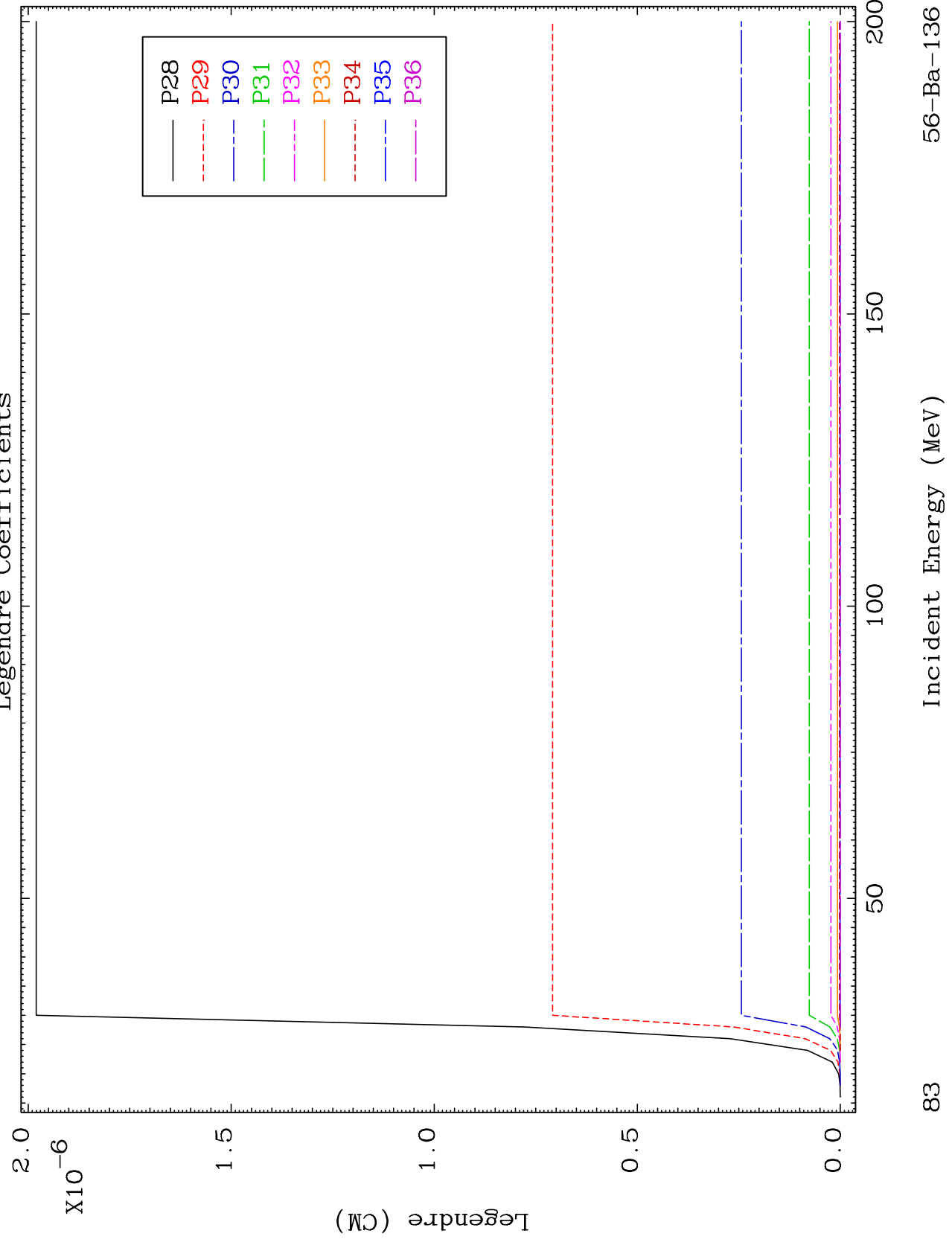
Incident Energy (MeV)

56-Ba-136

MAT 5643

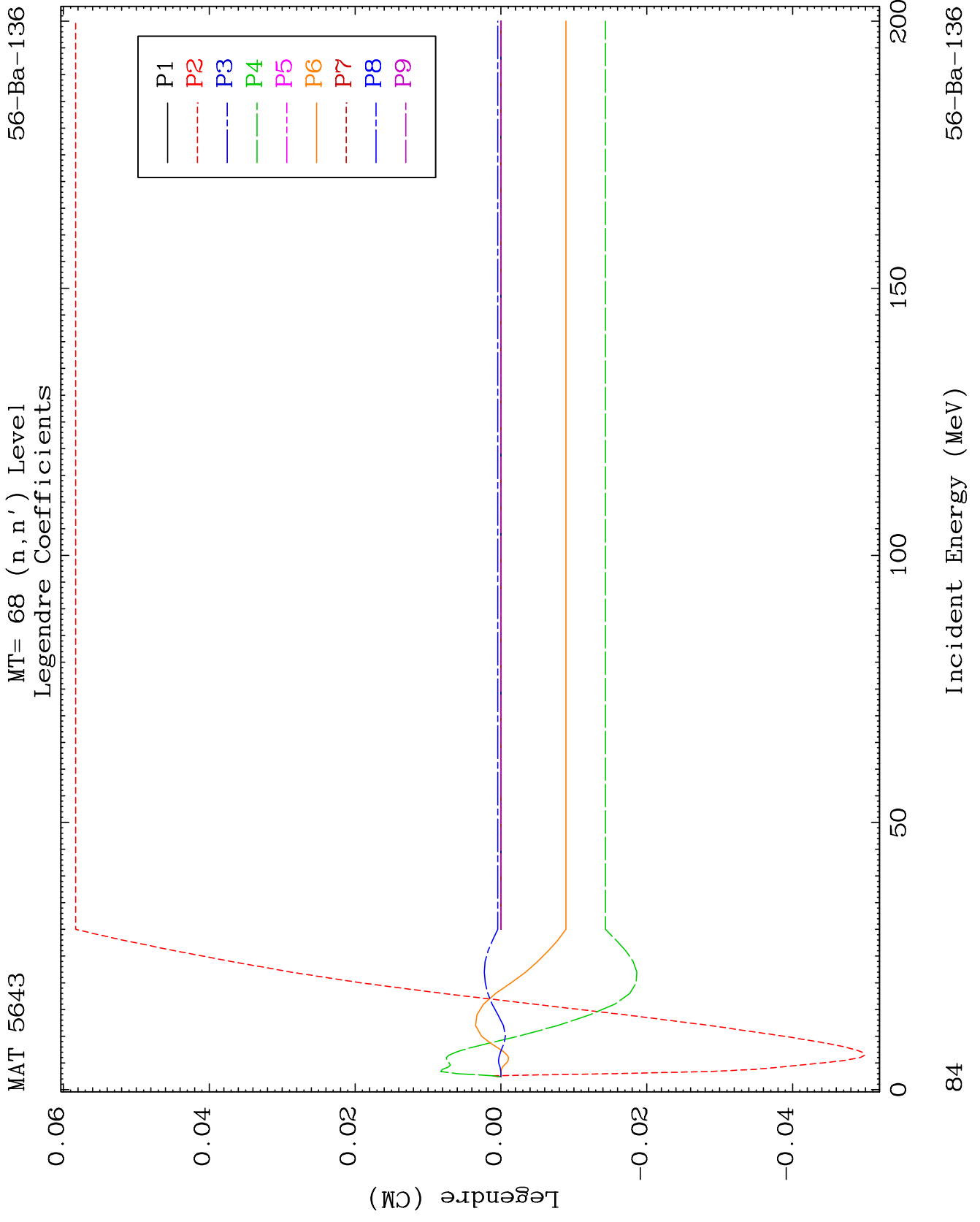
MT= 67 (n,n') Level
Legendre Coefficients

56-Ba-136



83

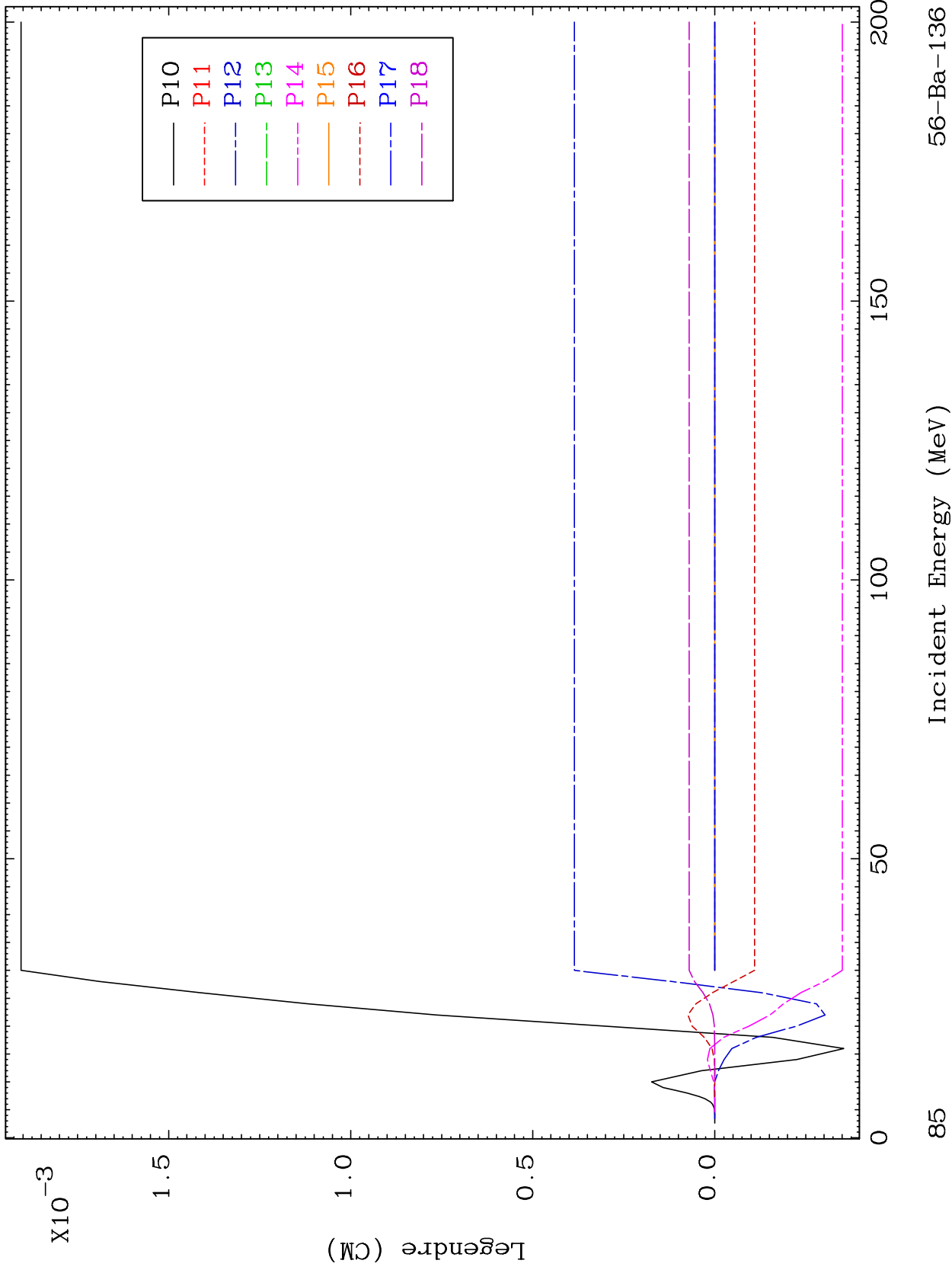
56-Ba-136



MAT 5643

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

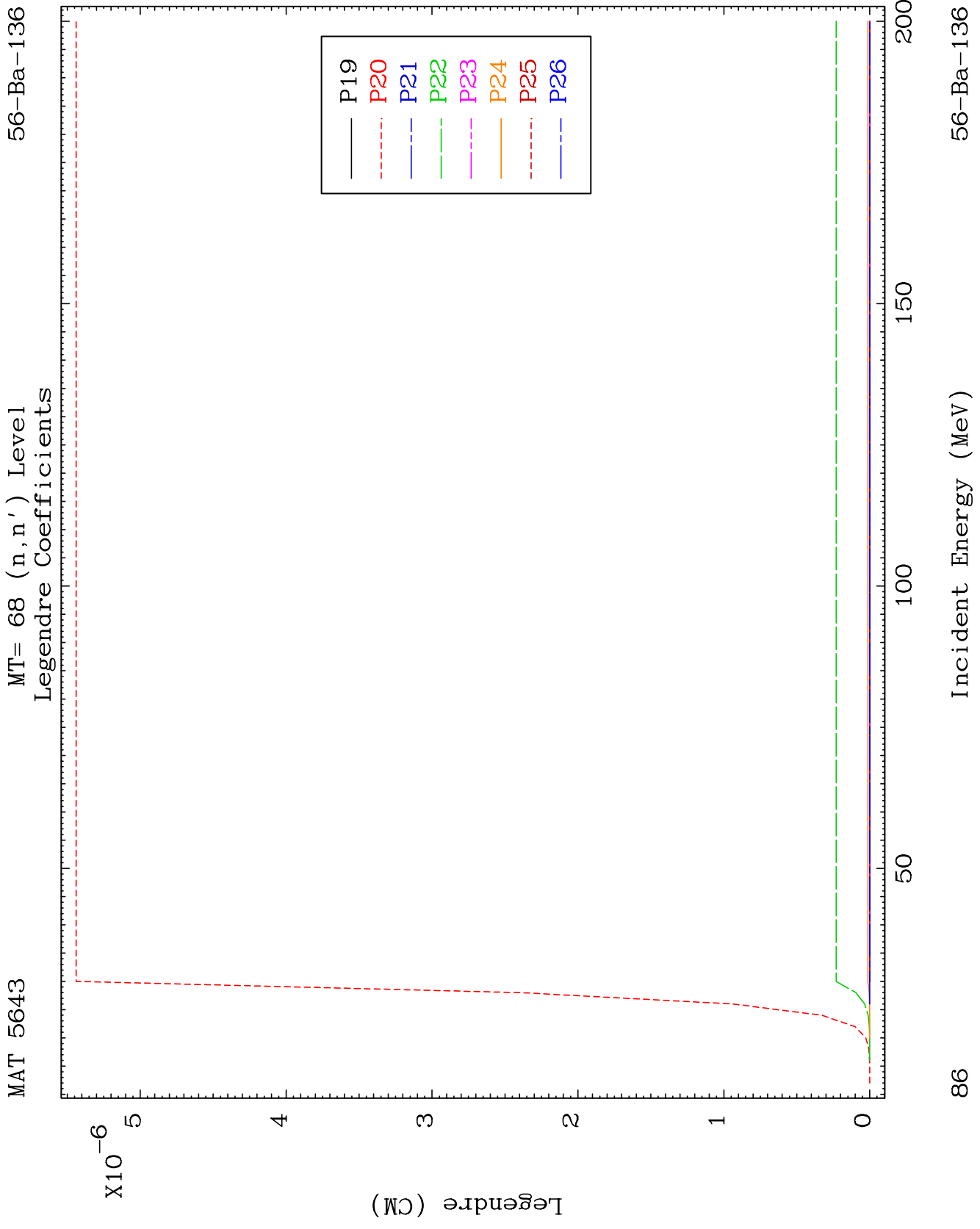
56-Ba-136



56-Ba-136

Incident Energy (MeV)

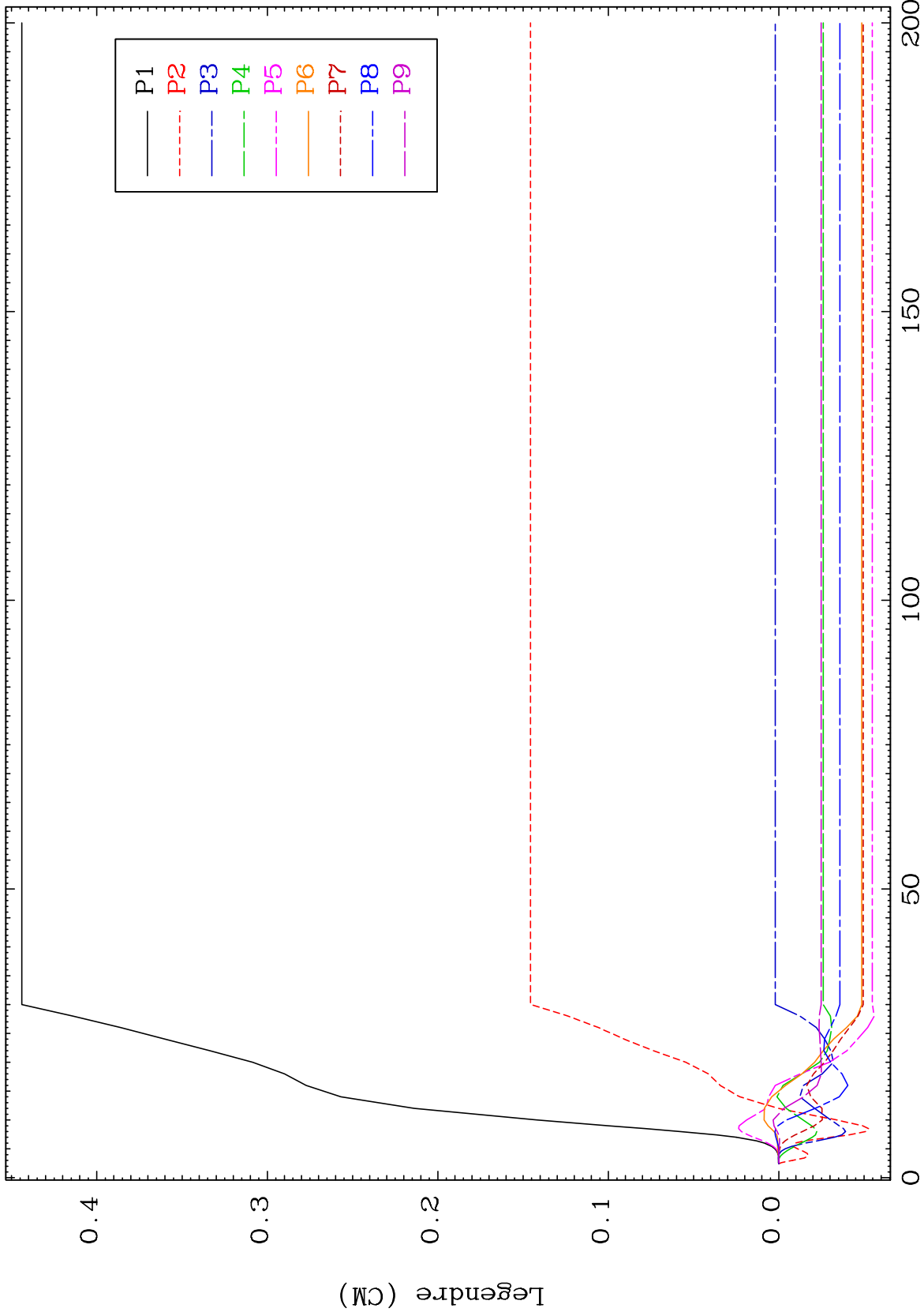
85



MAT 5643

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

56-Ba-136



87

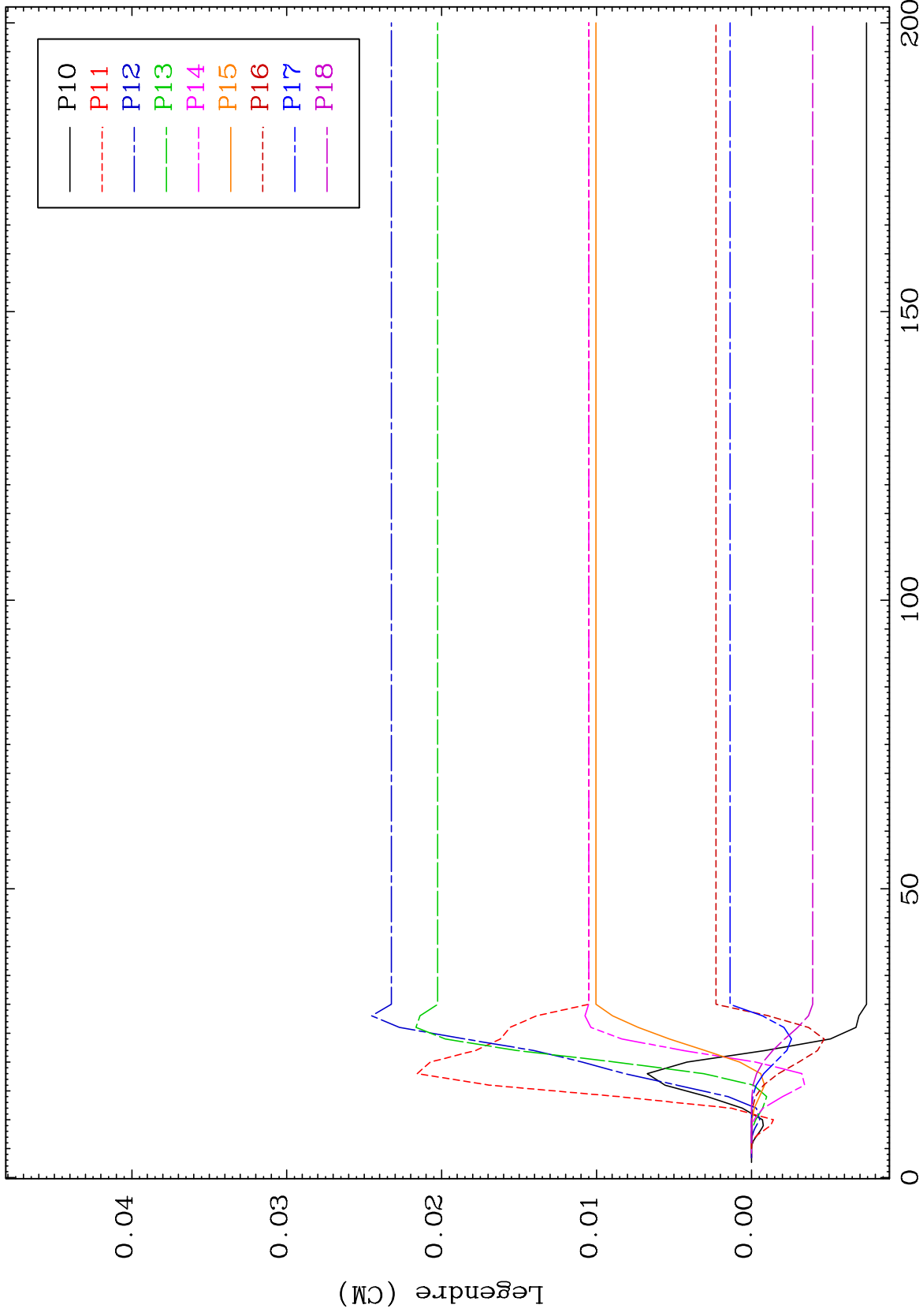
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

56-Ba-136



88

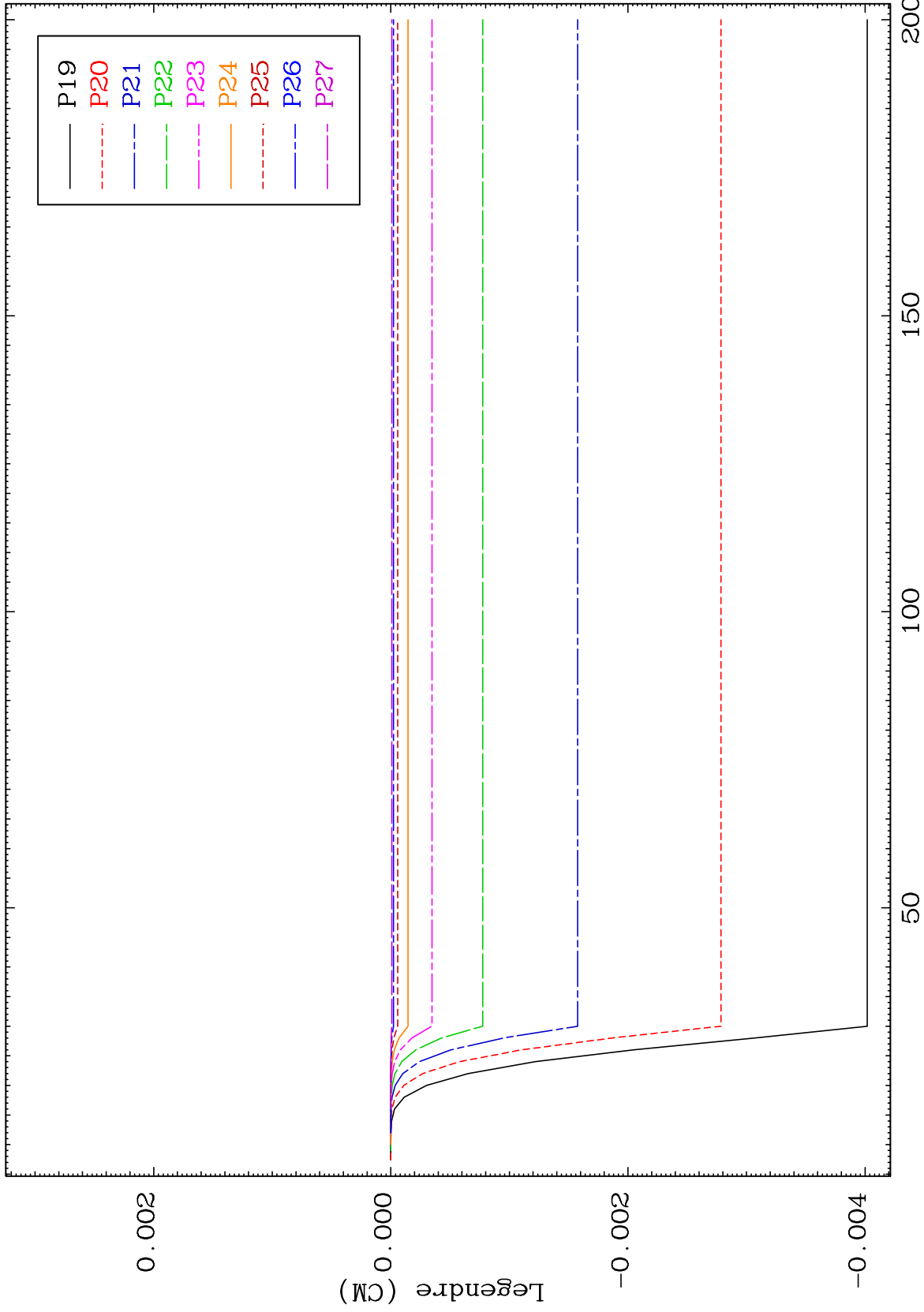
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

56-Ba-136



89

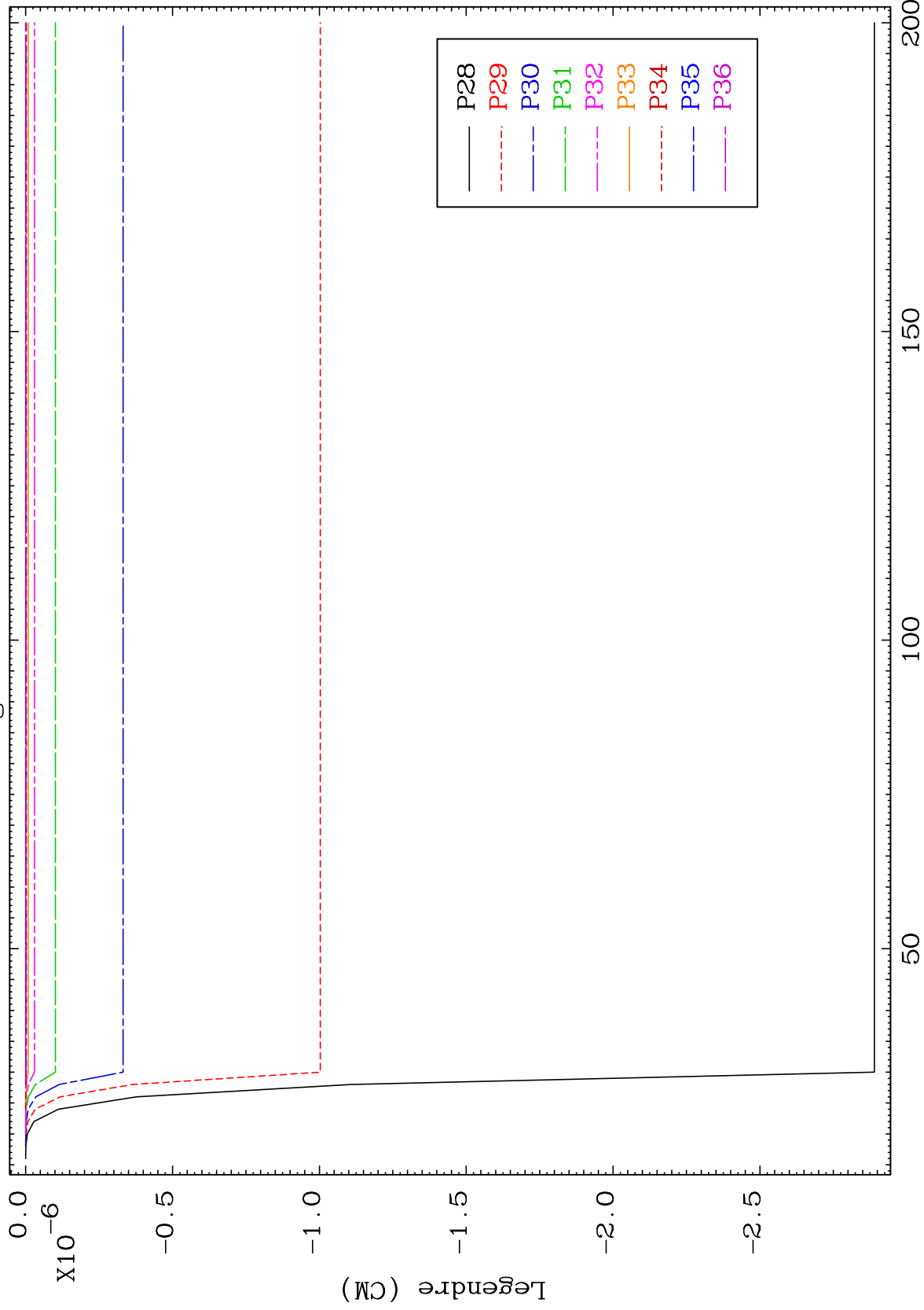
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

56-Ba-136



90

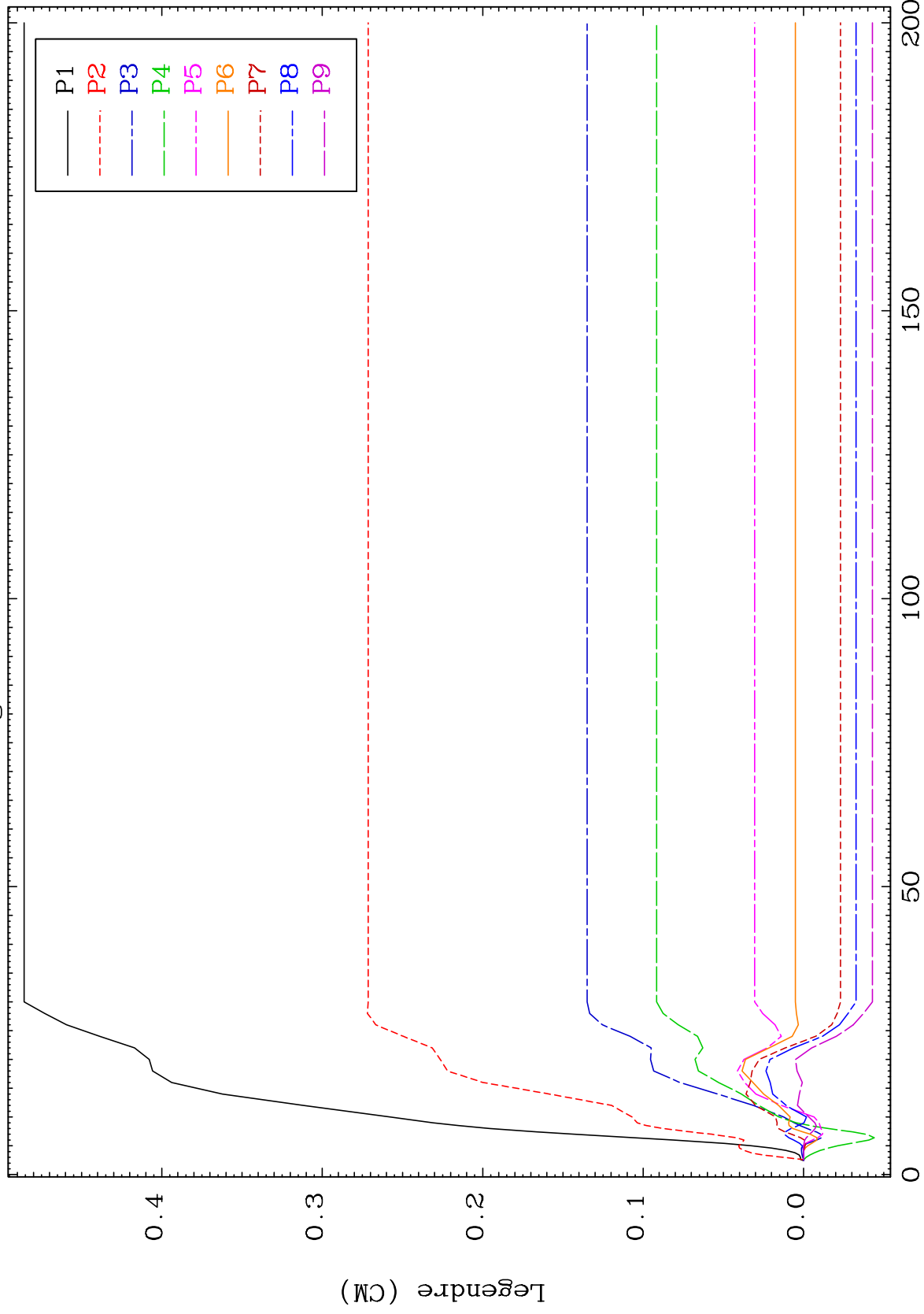
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

56-Ba-136



91

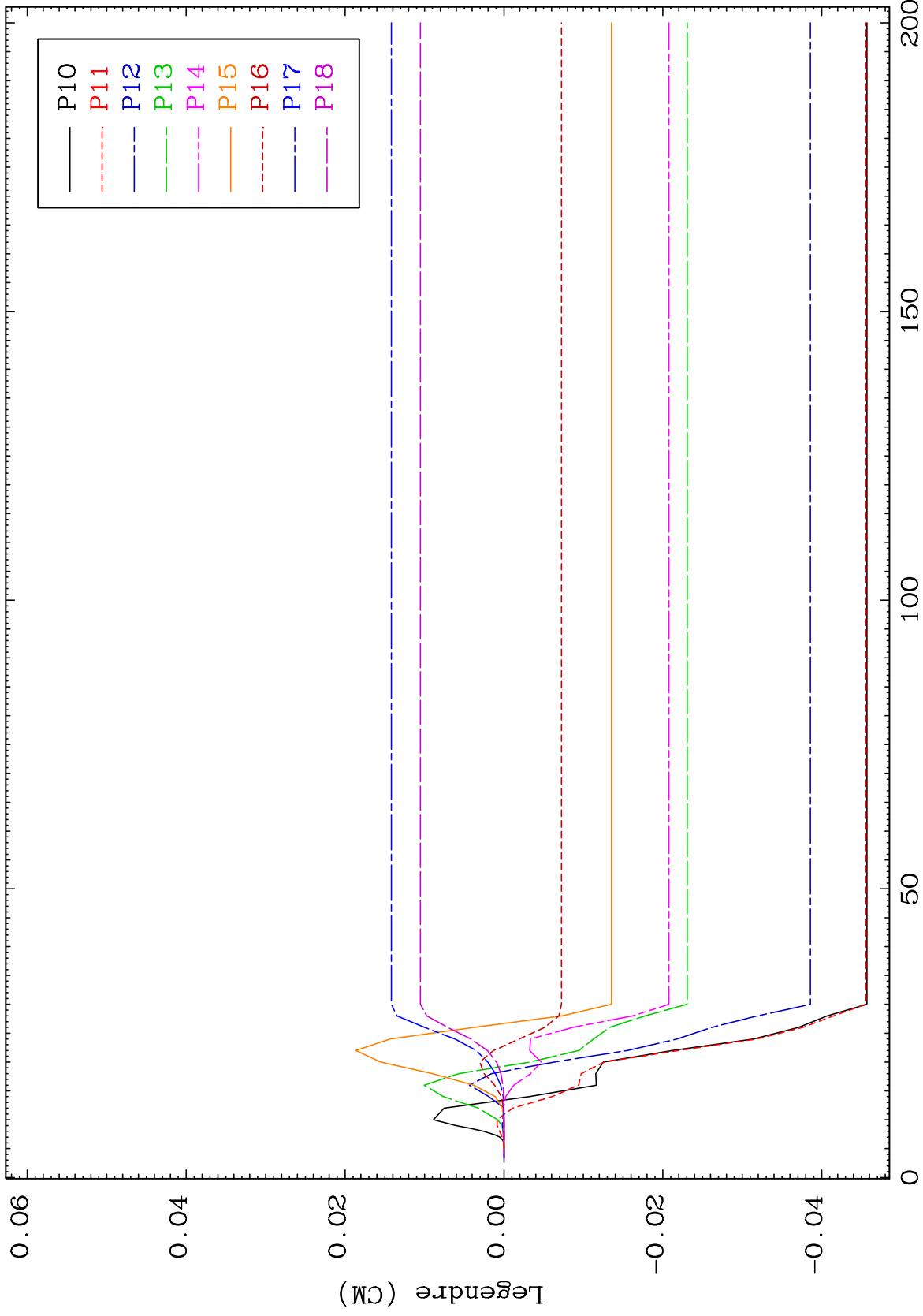
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

56-Ba-136



92

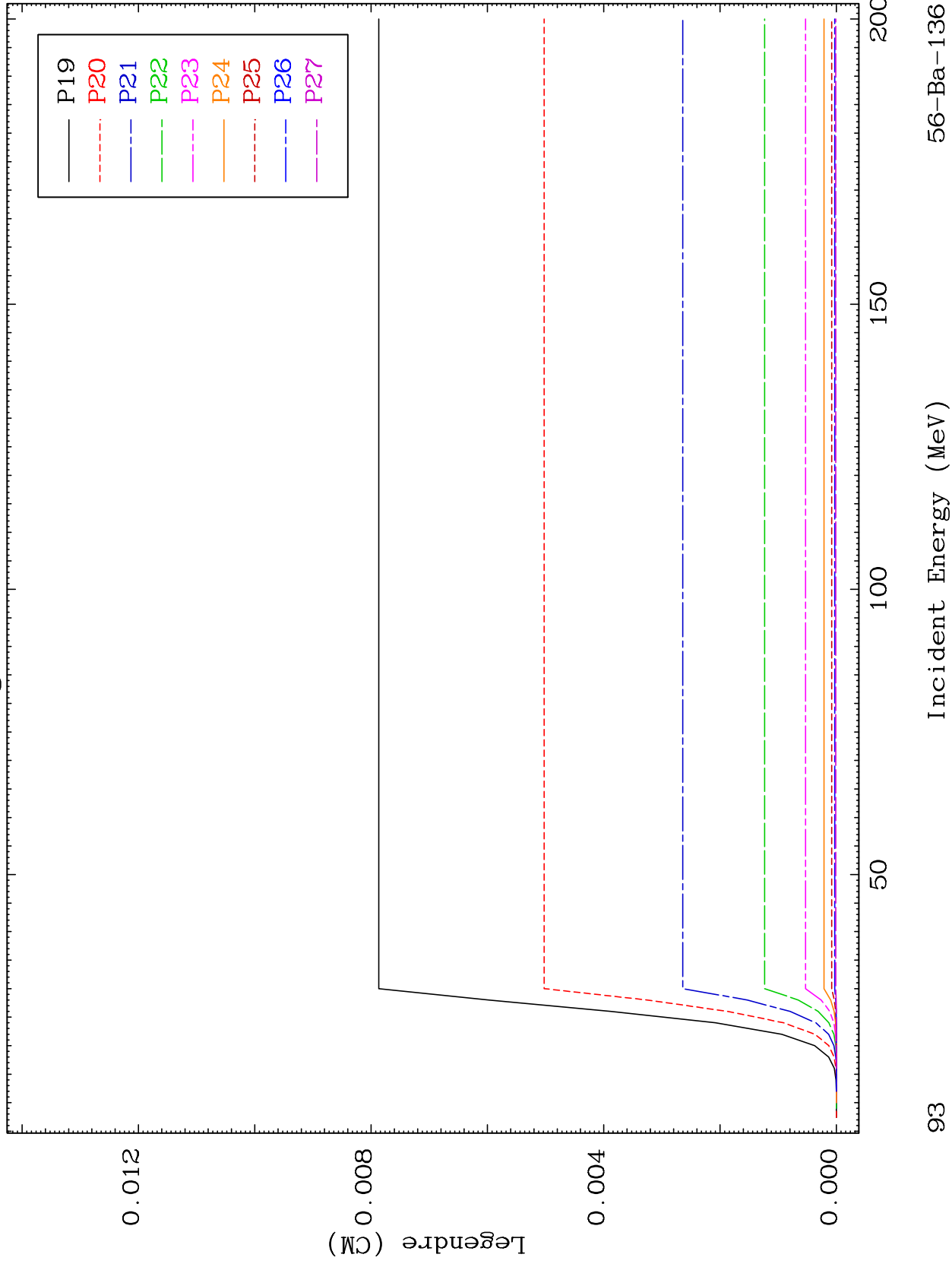
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

56-Ba-136



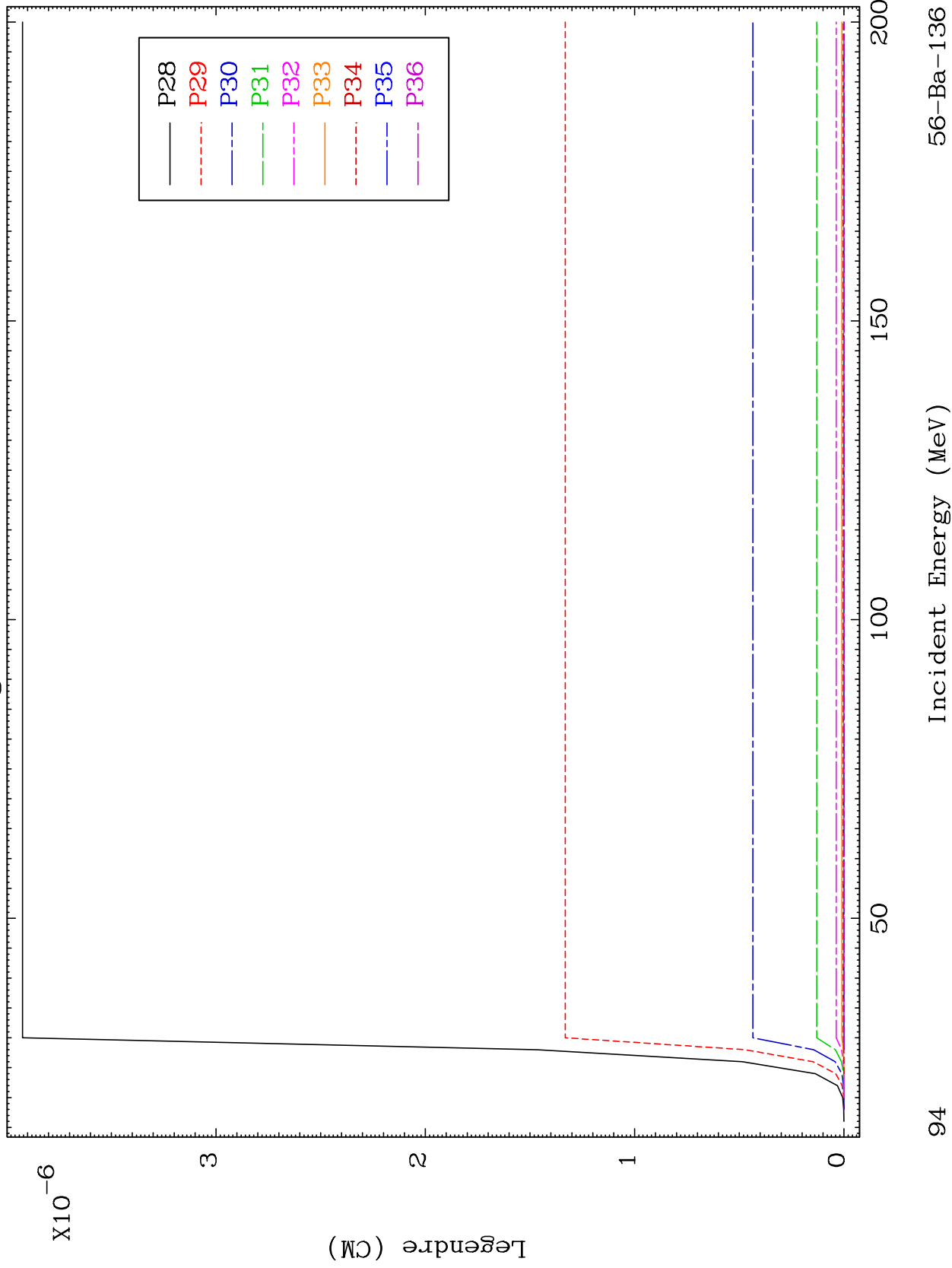
93

56-Ba-136

MAT 5643

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

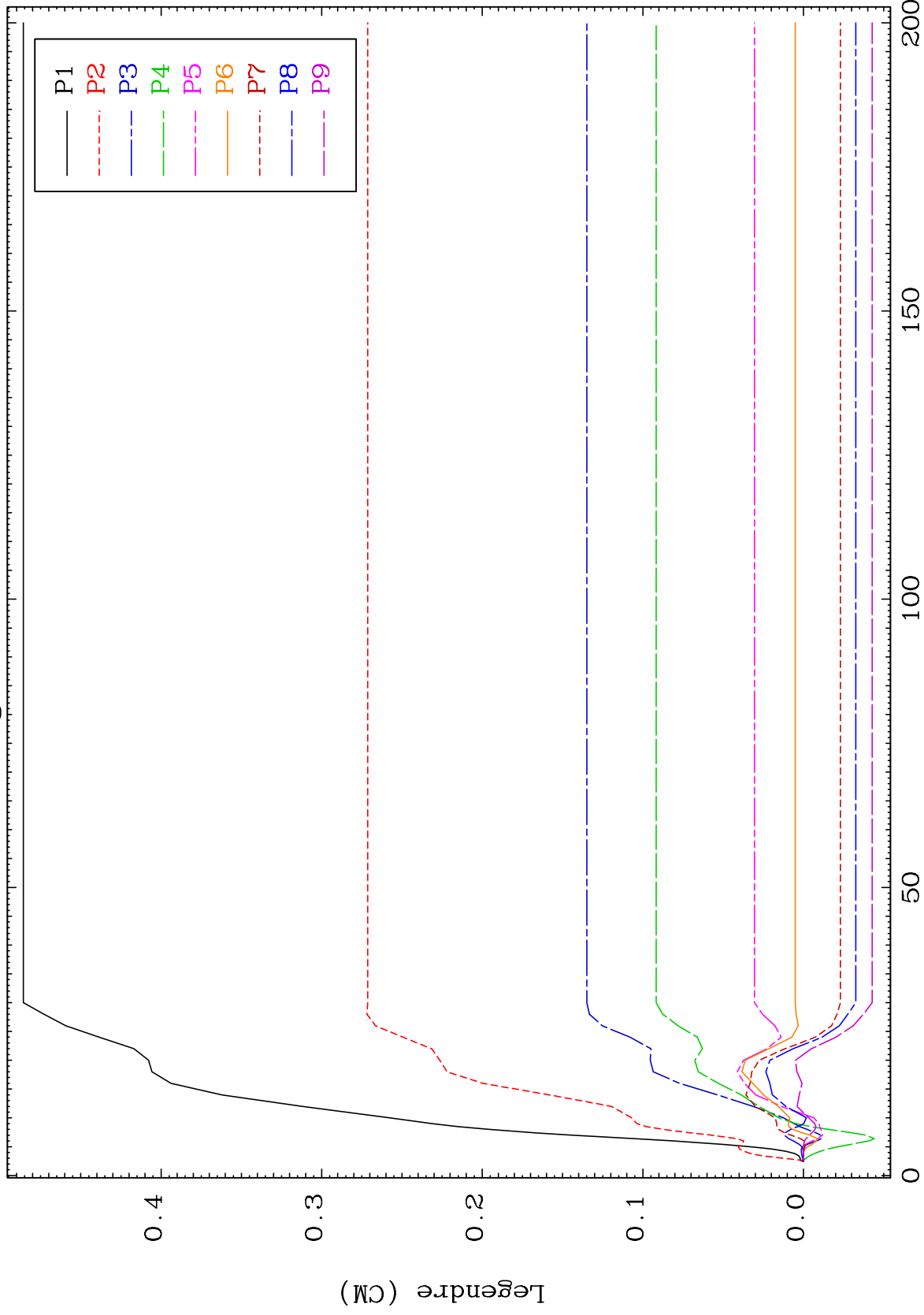
56-Ba-136



MAT 5643

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

56-Ba-136



56-Ba-136

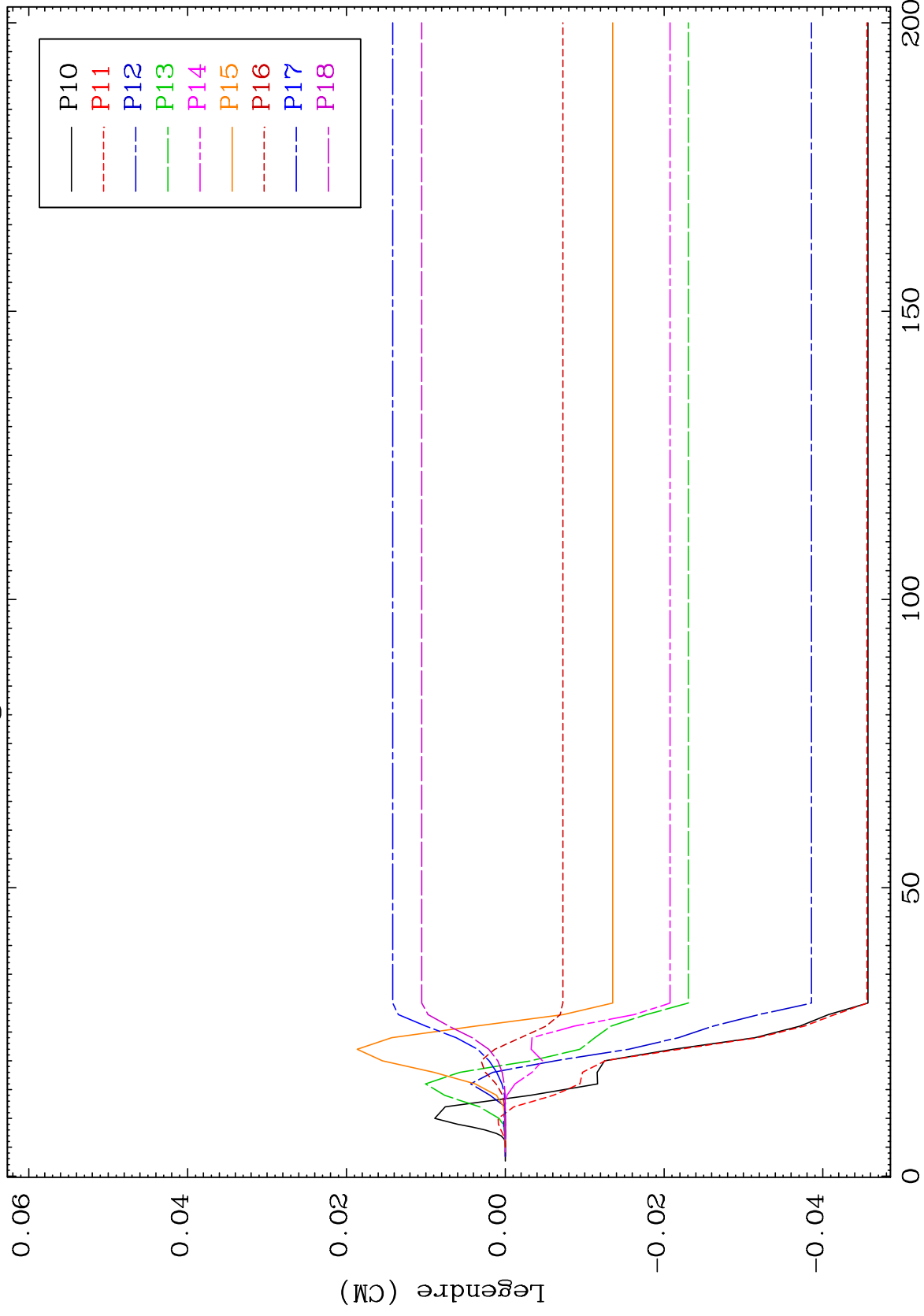
Incident Energy (MeV)

95

MAT 5643

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

56-Ba-136



96

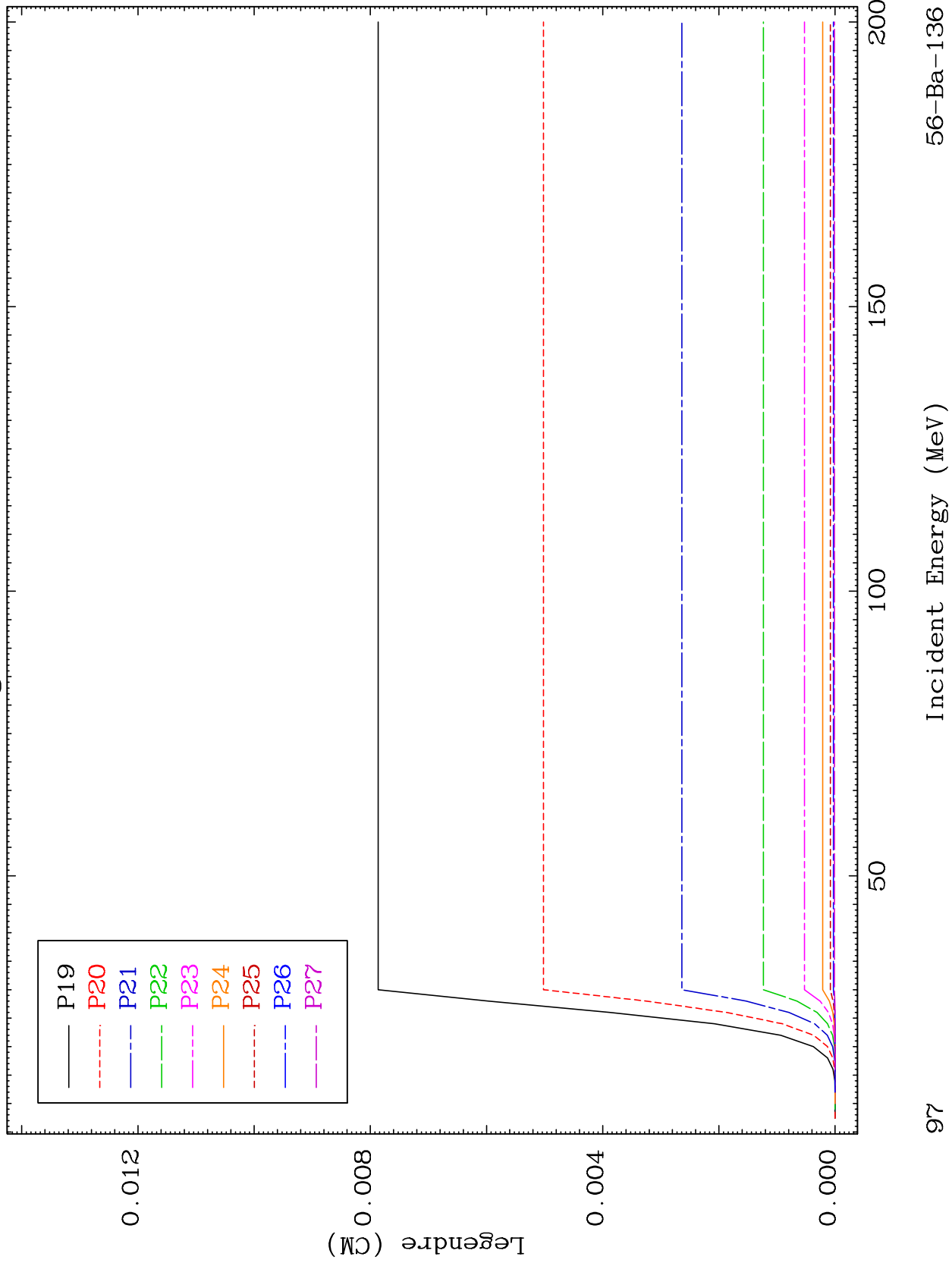
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

56-Ba-136



97

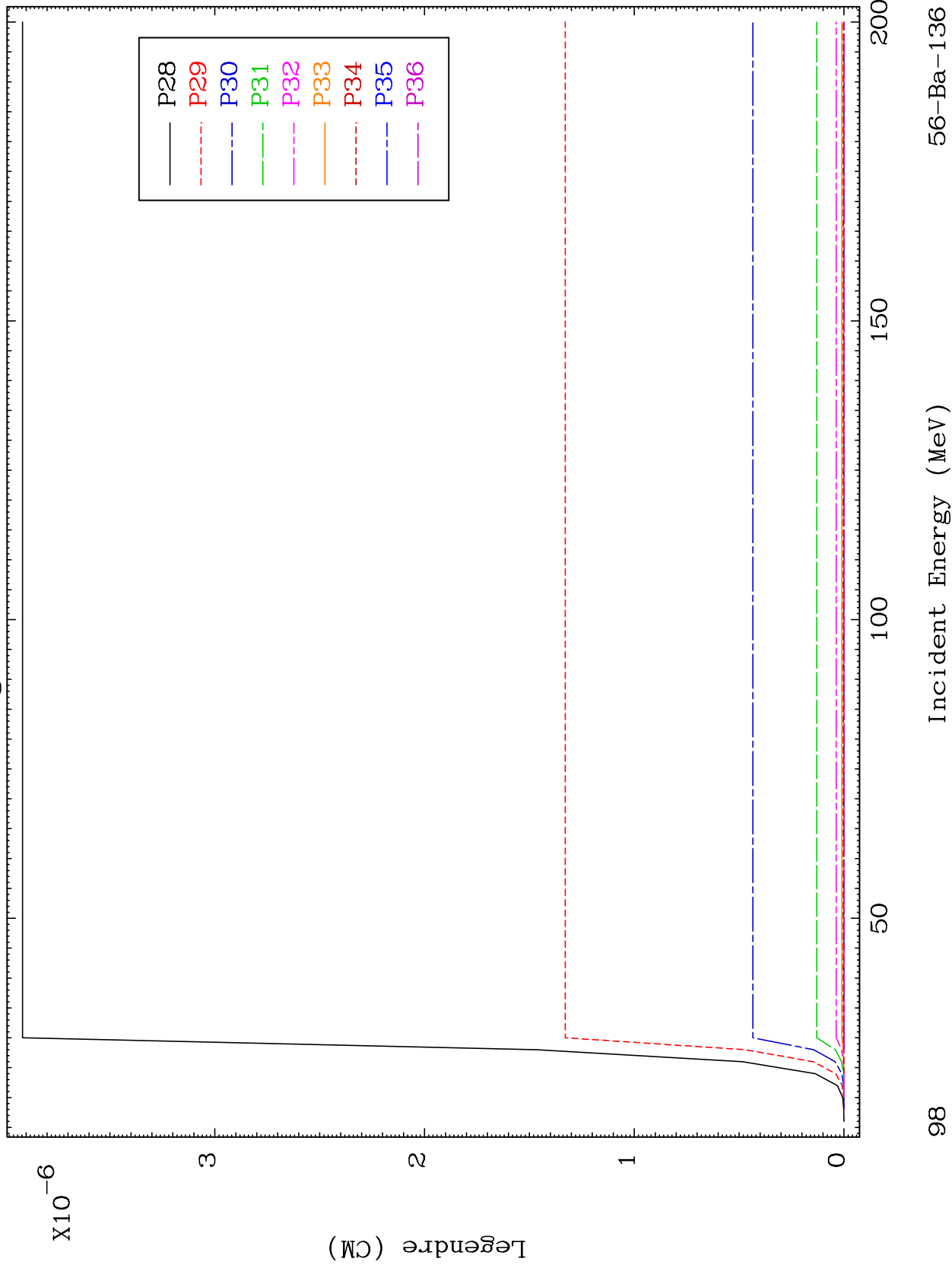
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

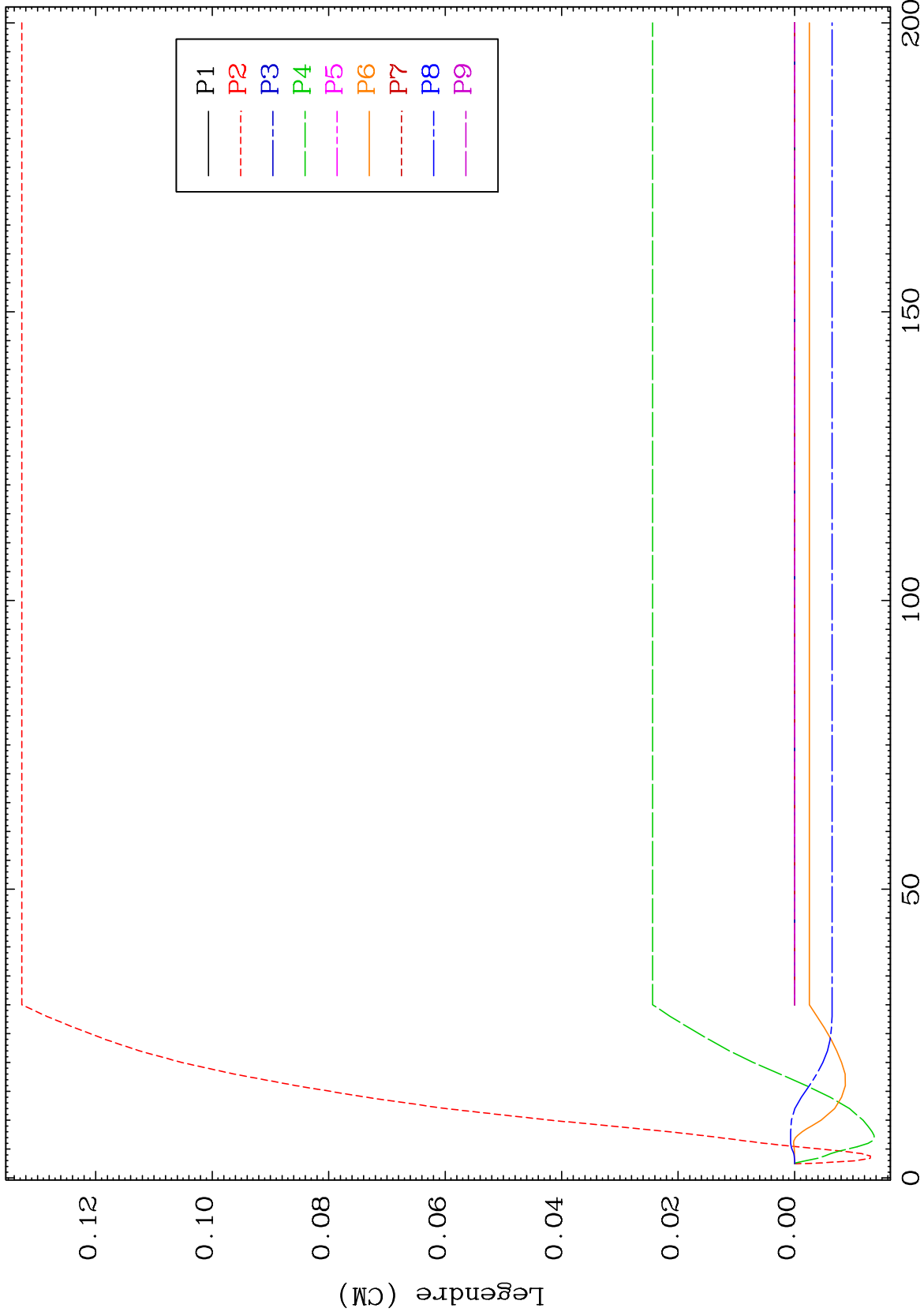
56-Ba-136



MAT 5643

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

56-Ba-136



99

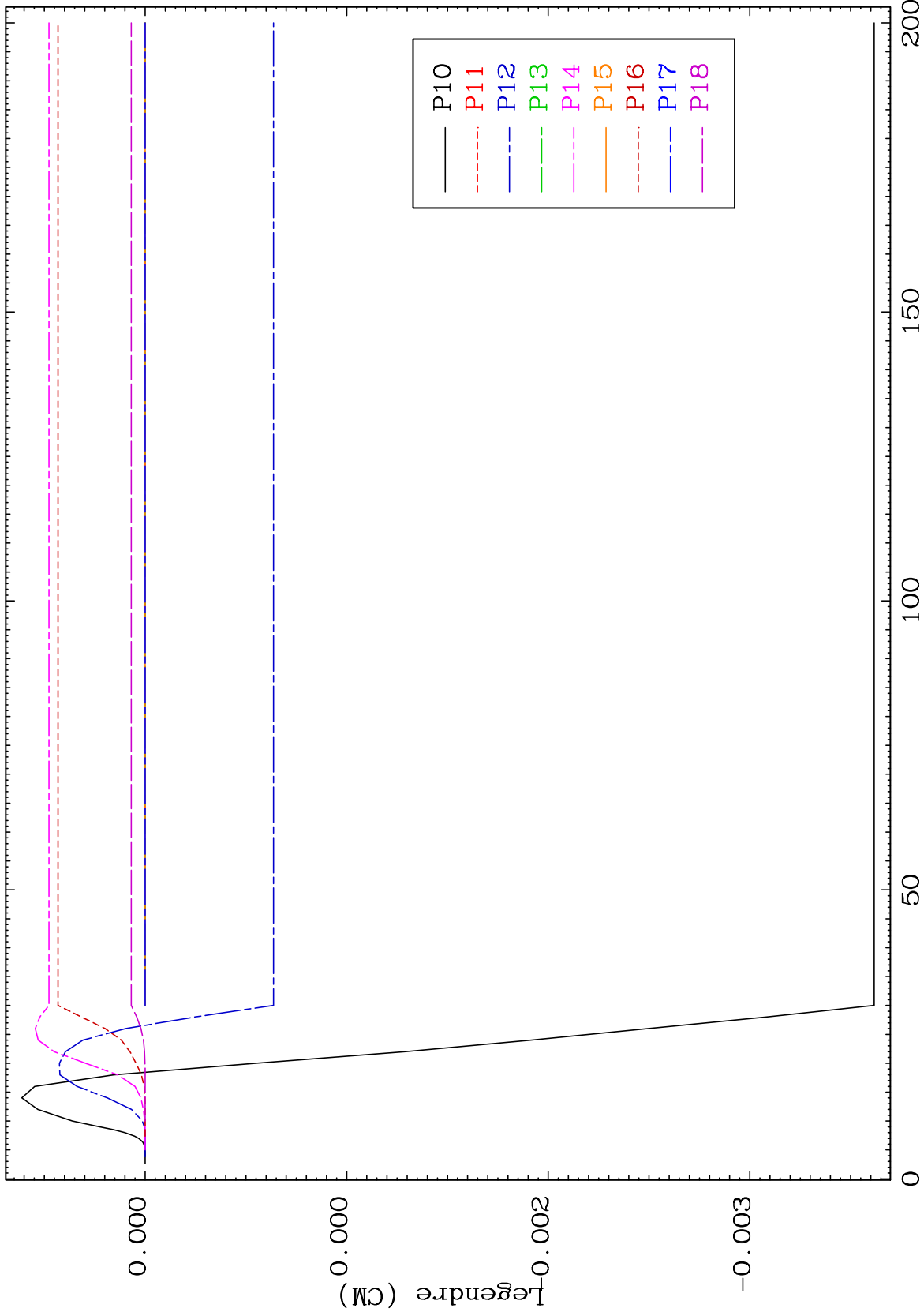
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

56-Ba-136



56-Ba-136

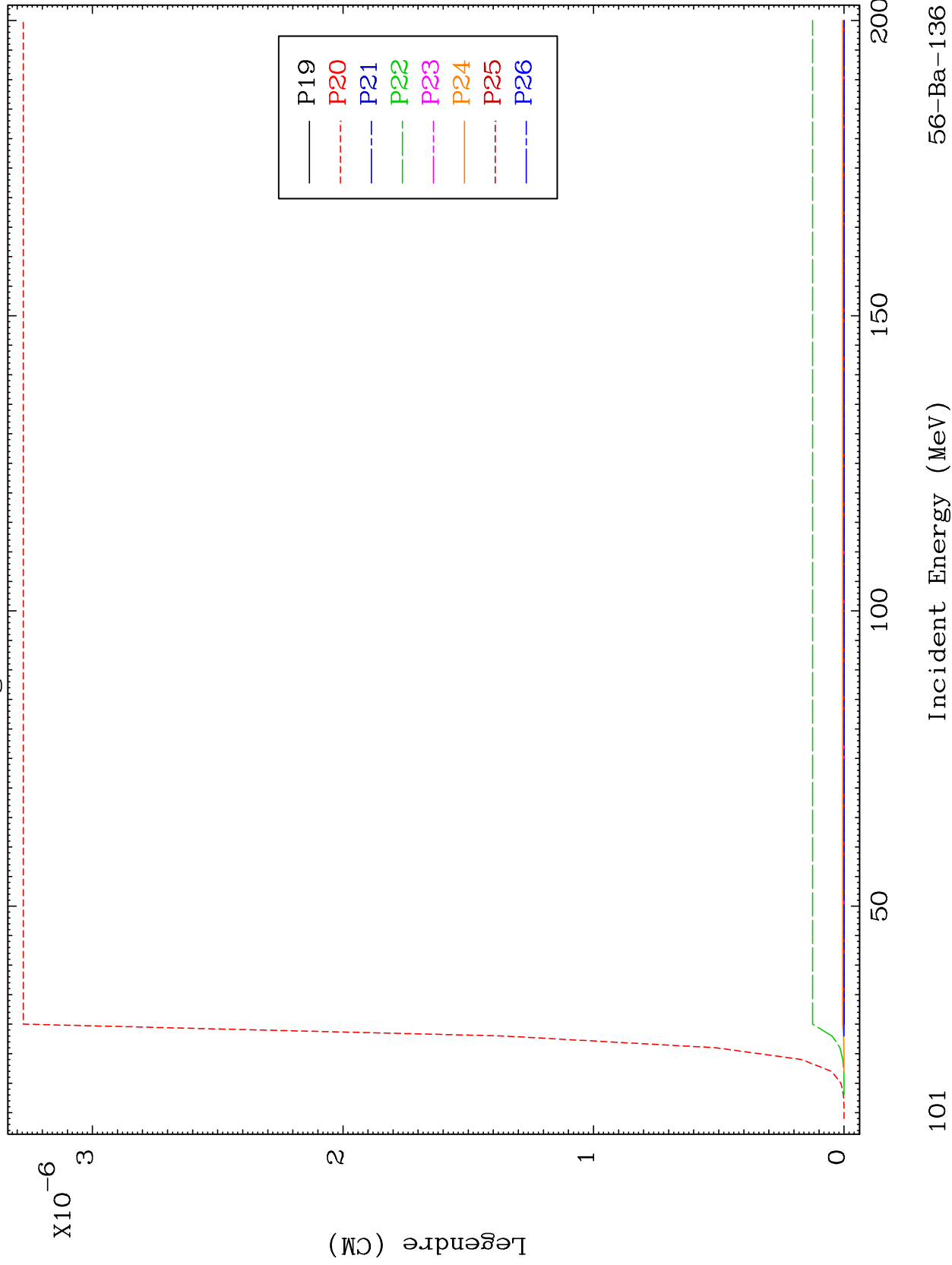
Incident Energy (MeV)

100

MAT 5643

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

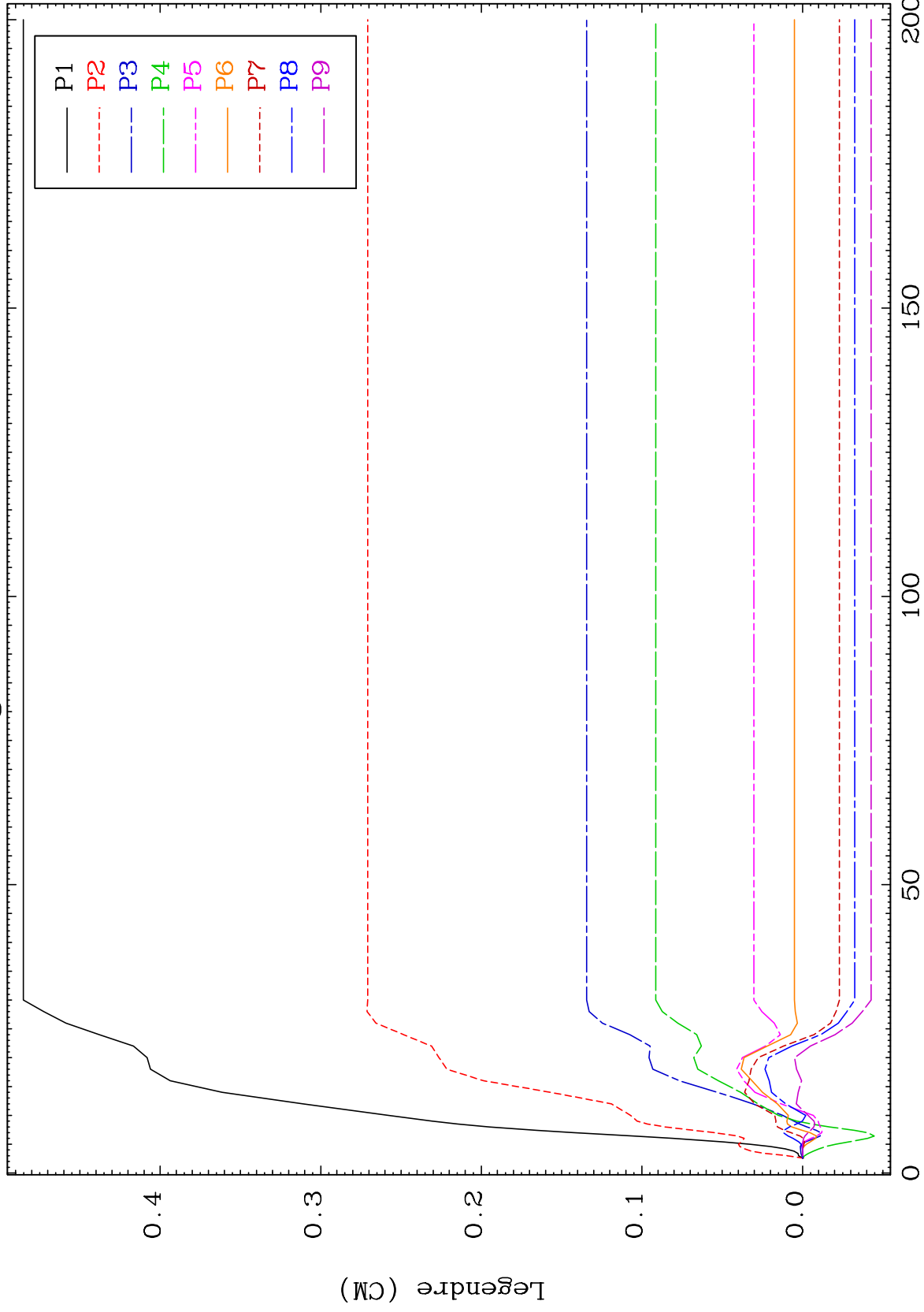
56-Ba-136



MAT 5643

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

56-Ba-136



56-Ba-136

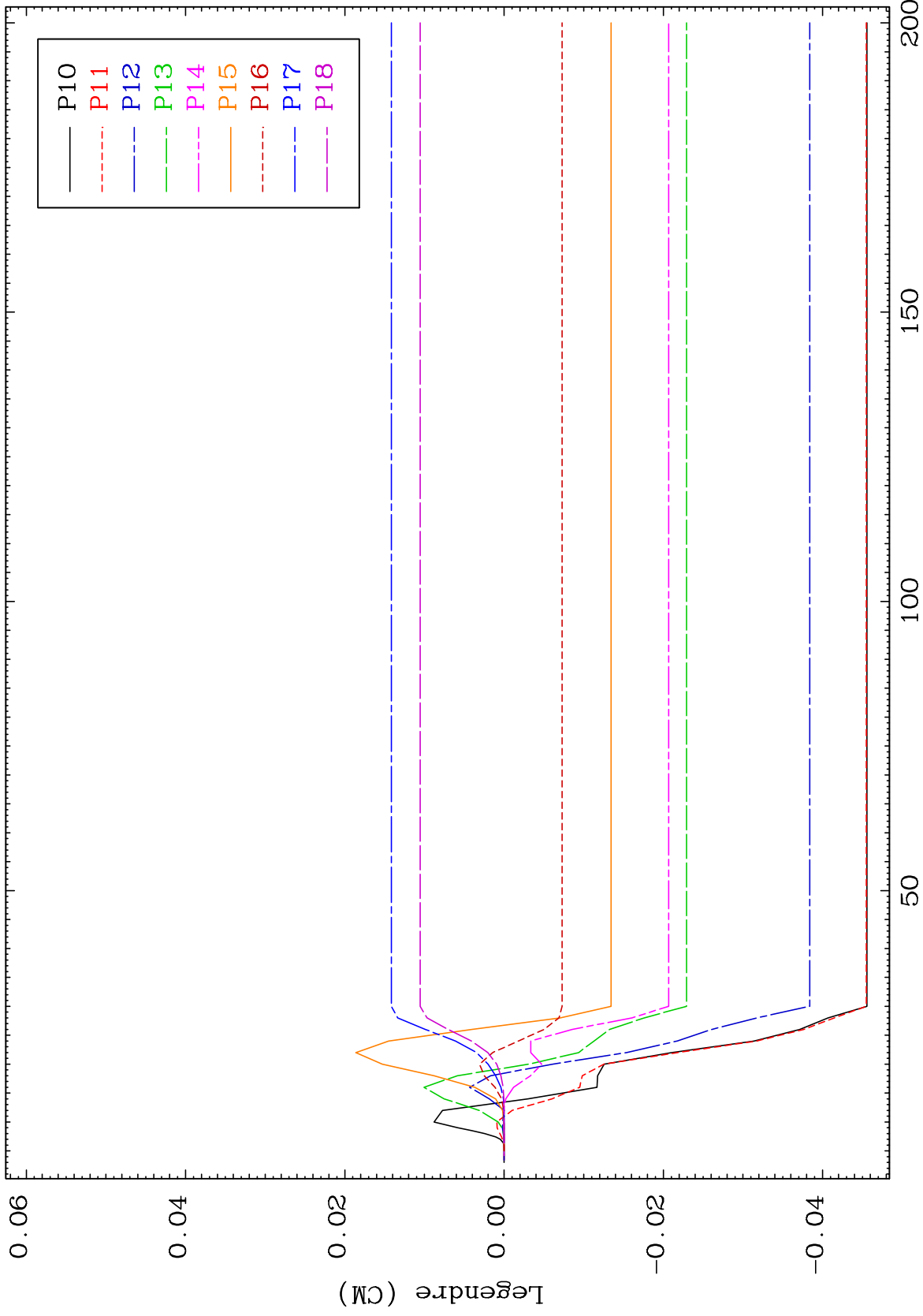
Incident Energy (MeV)

102

MAT 5643

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

56-Ba-136



103

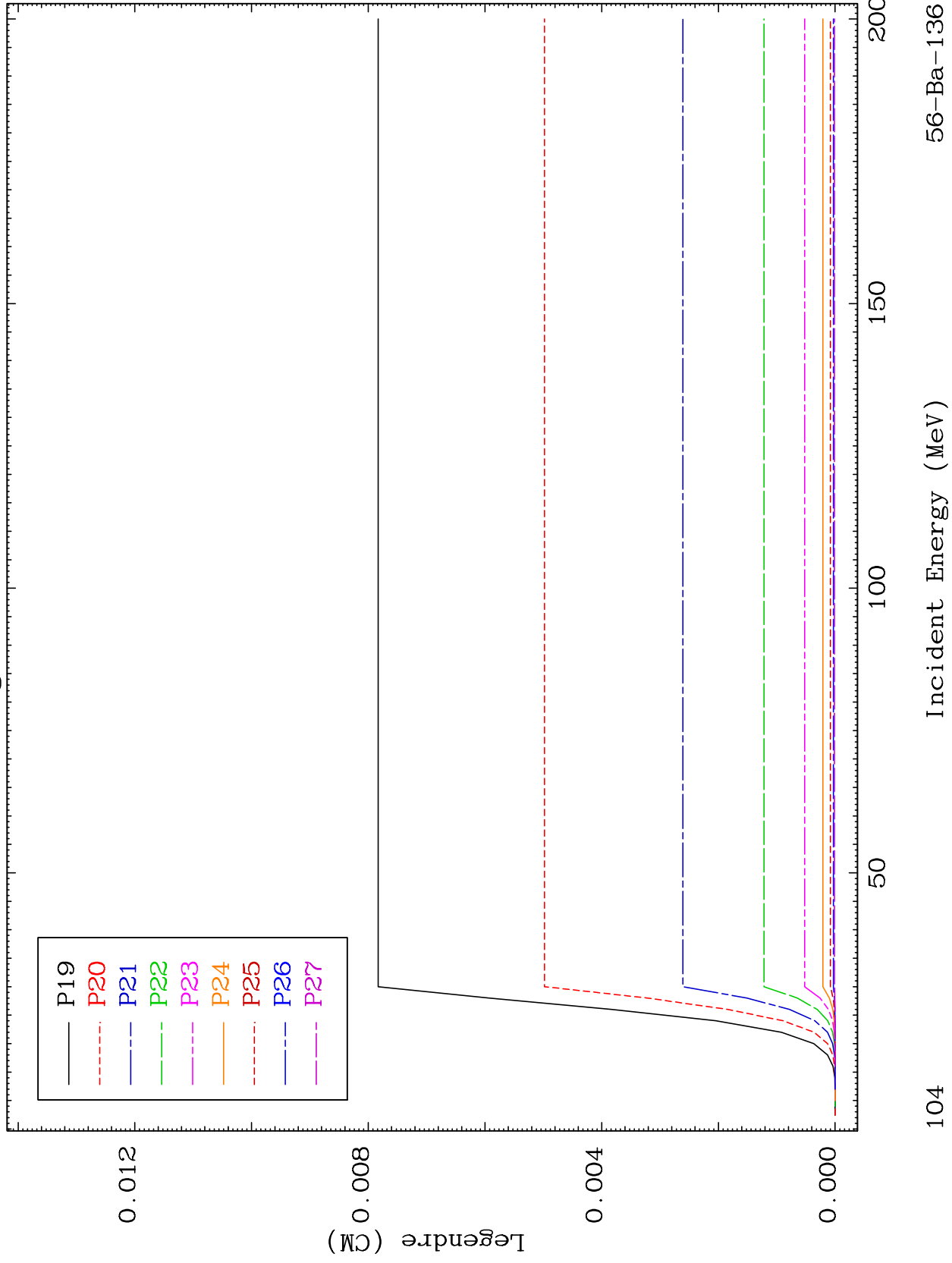
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

56-Ba-136



104

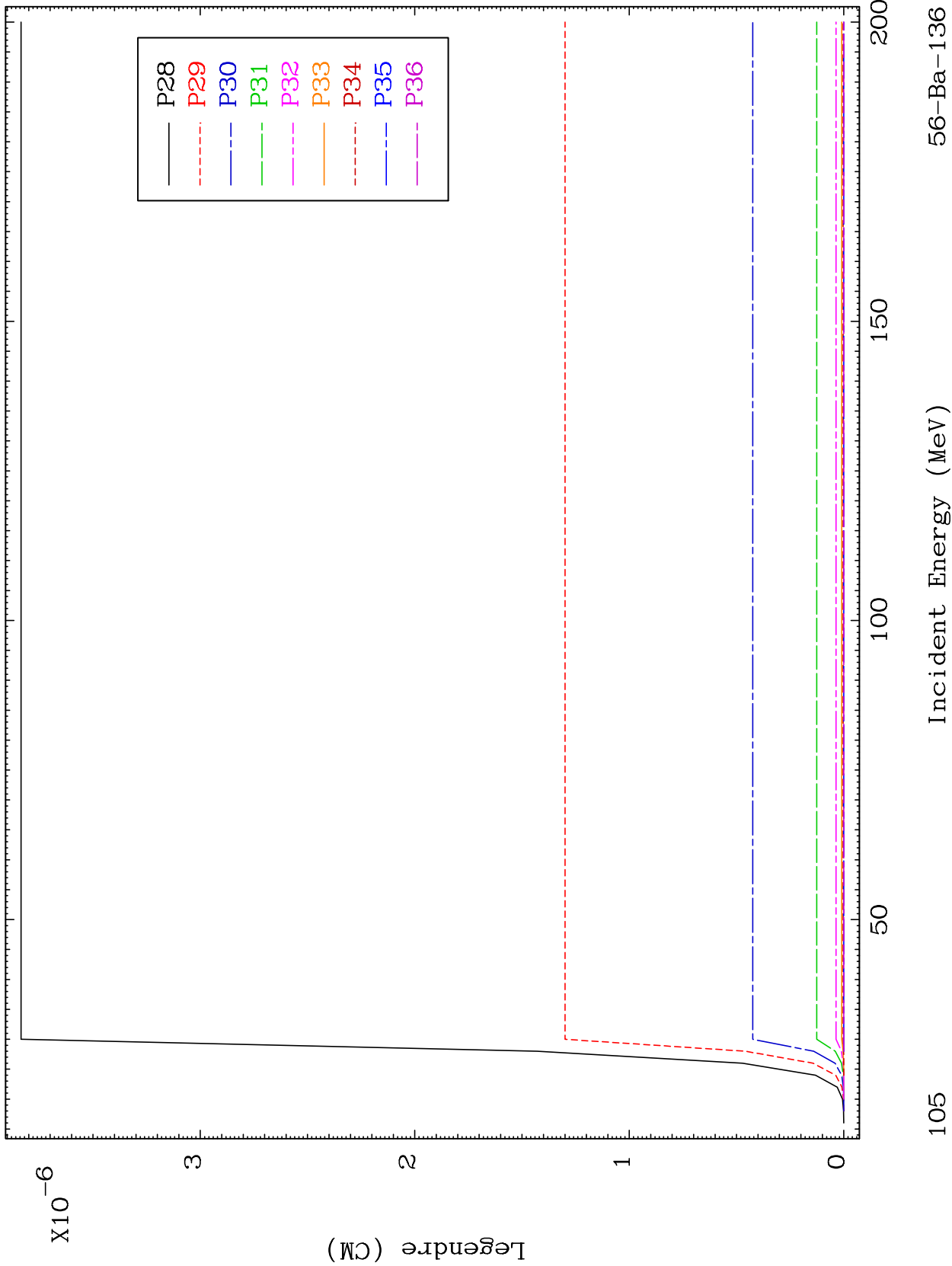
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

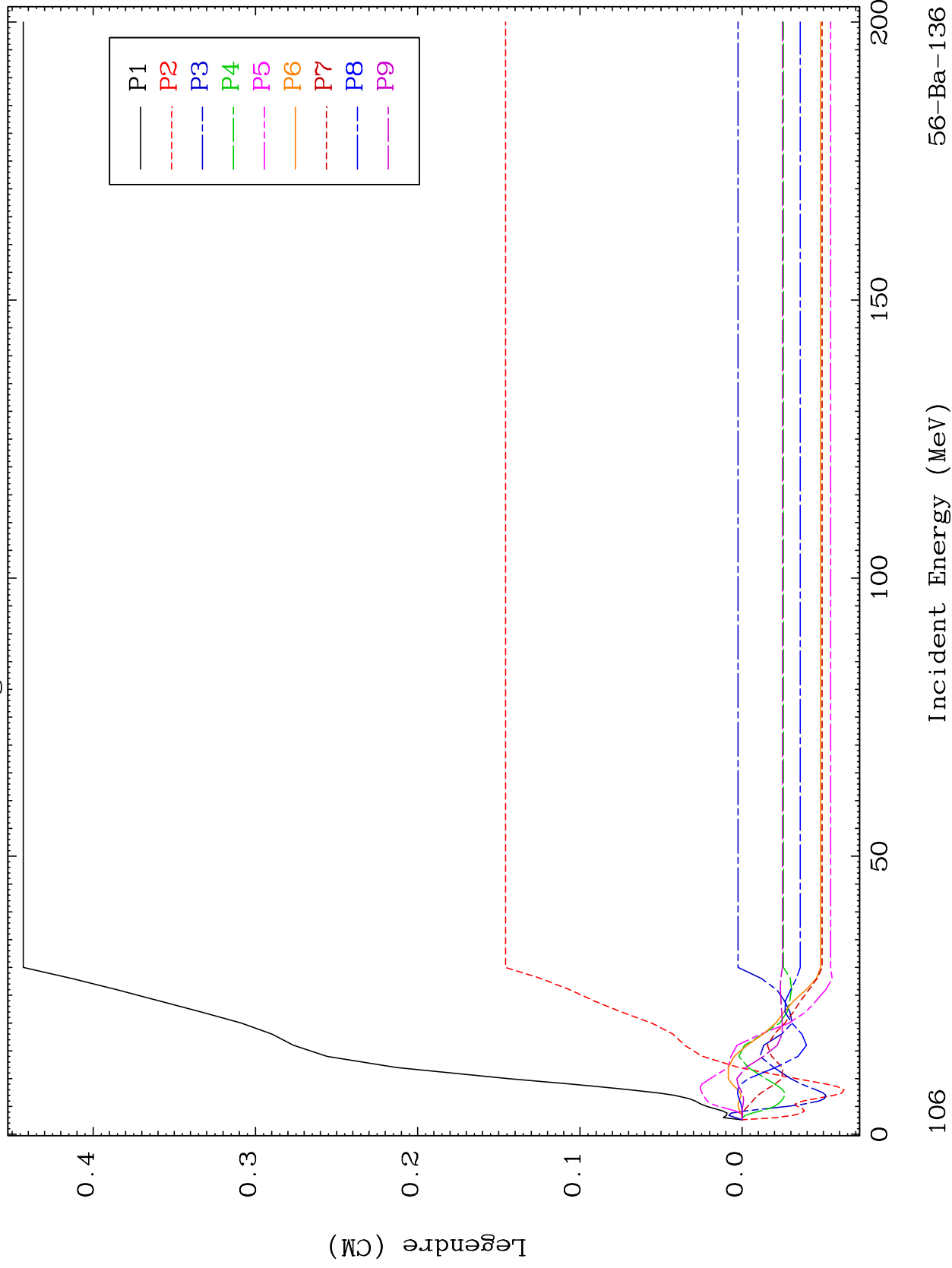
56-Ba-136



MAT 5643

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

56-Ba-136



56-Ba-136

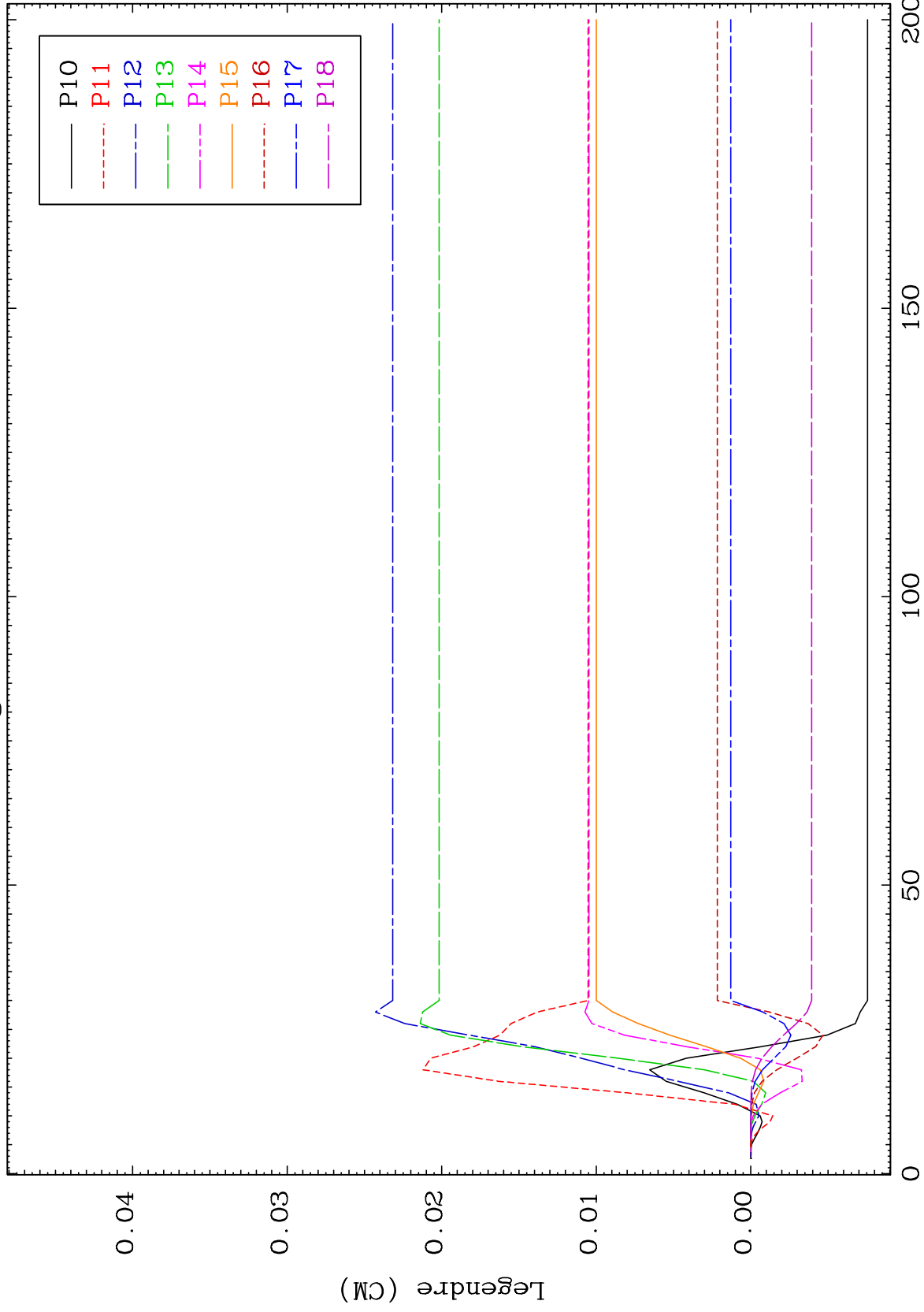
Incident Energy (MeV)

106

MAT 5643

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

56-Ba-136



107

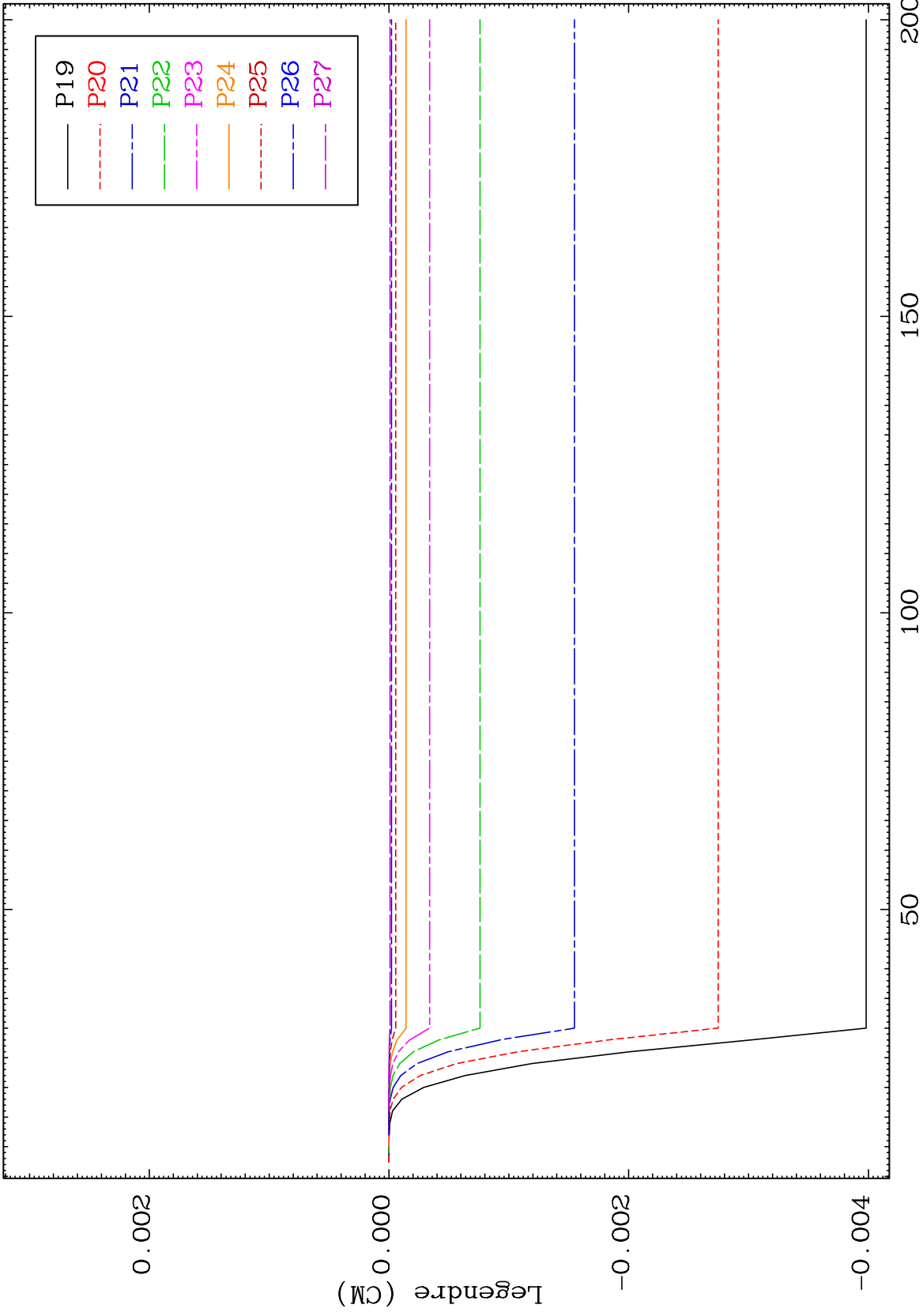
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

56-Ba-136



108

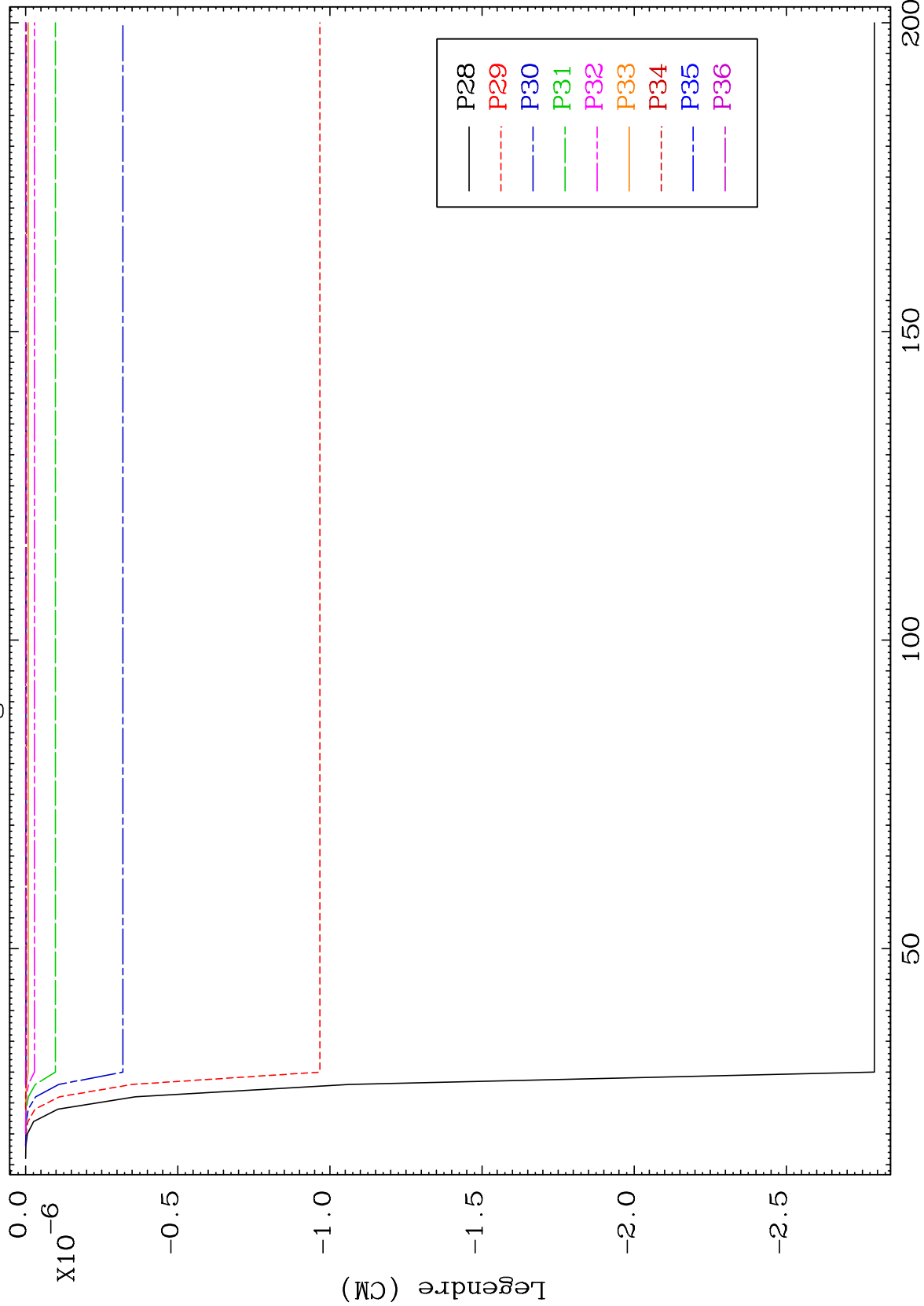
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

56-Ba-136



109

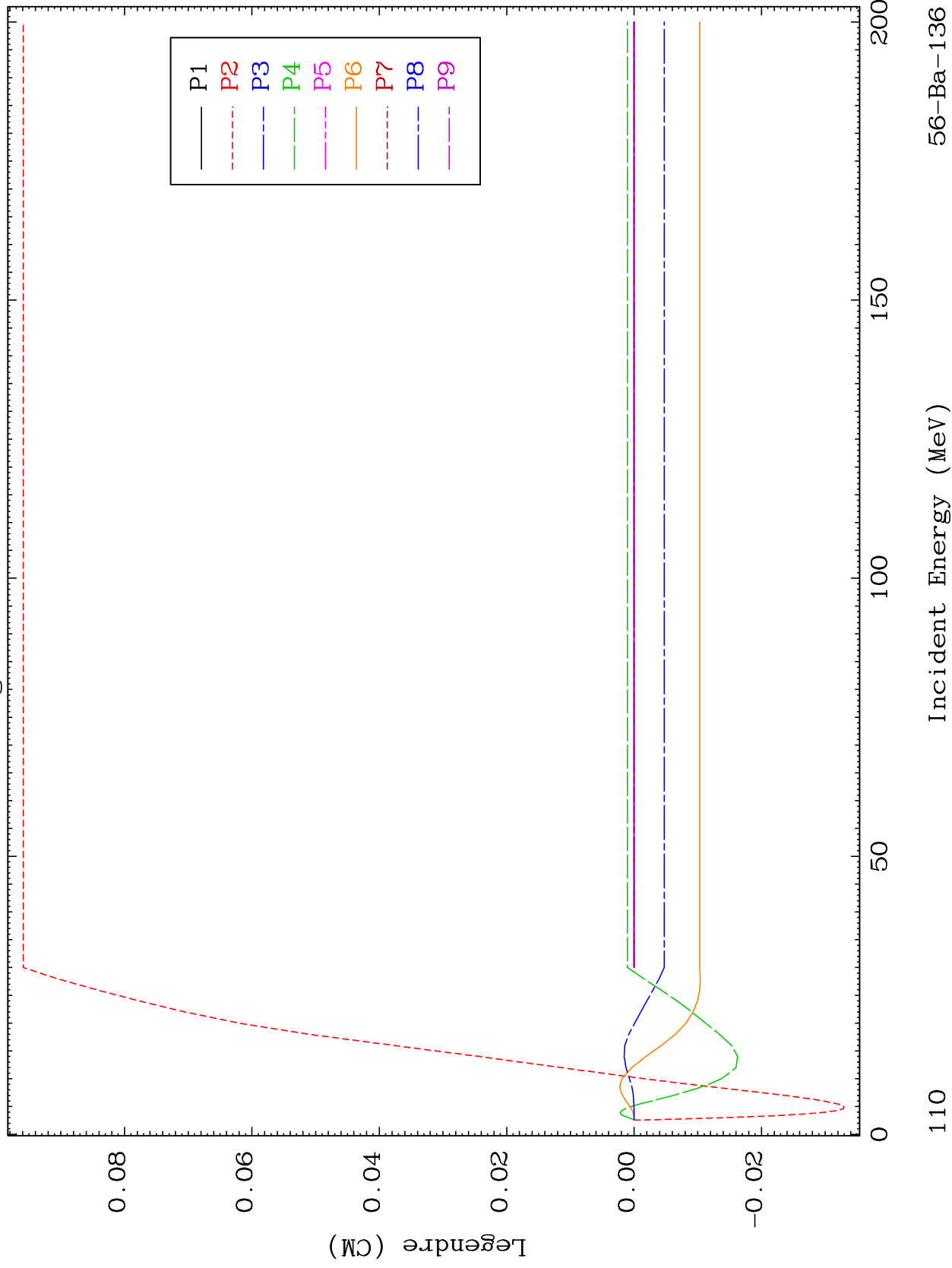
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

56-Ba-136



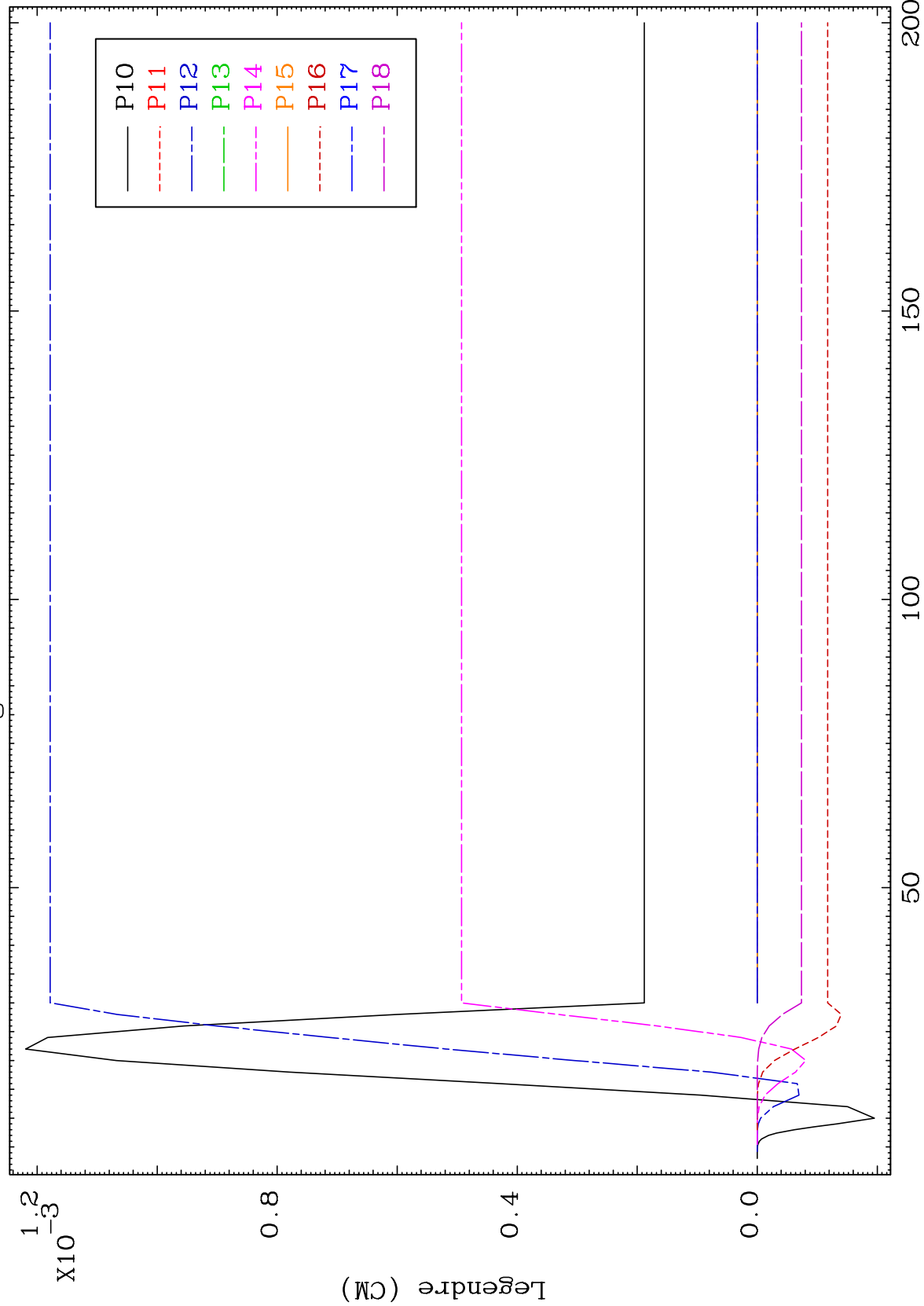
56-Ba-136

MAT 5643

MT= 75 (n,n') Level

Legendre Coefficients

56-Ba-136



56-Ba-136

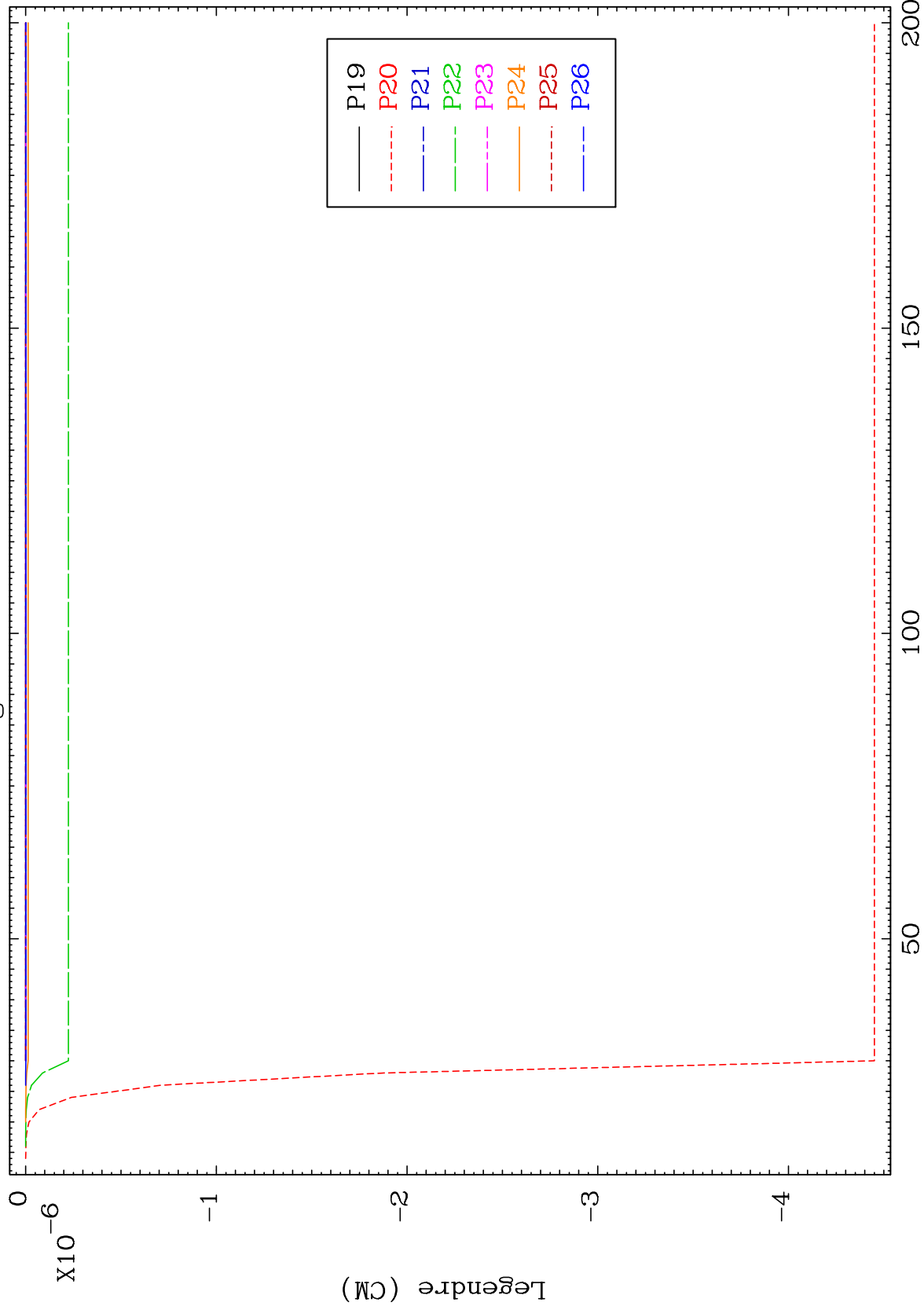
Incident Energy (MeV)

111

MAT 5643

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

56-Ba-136



56-Ba-136

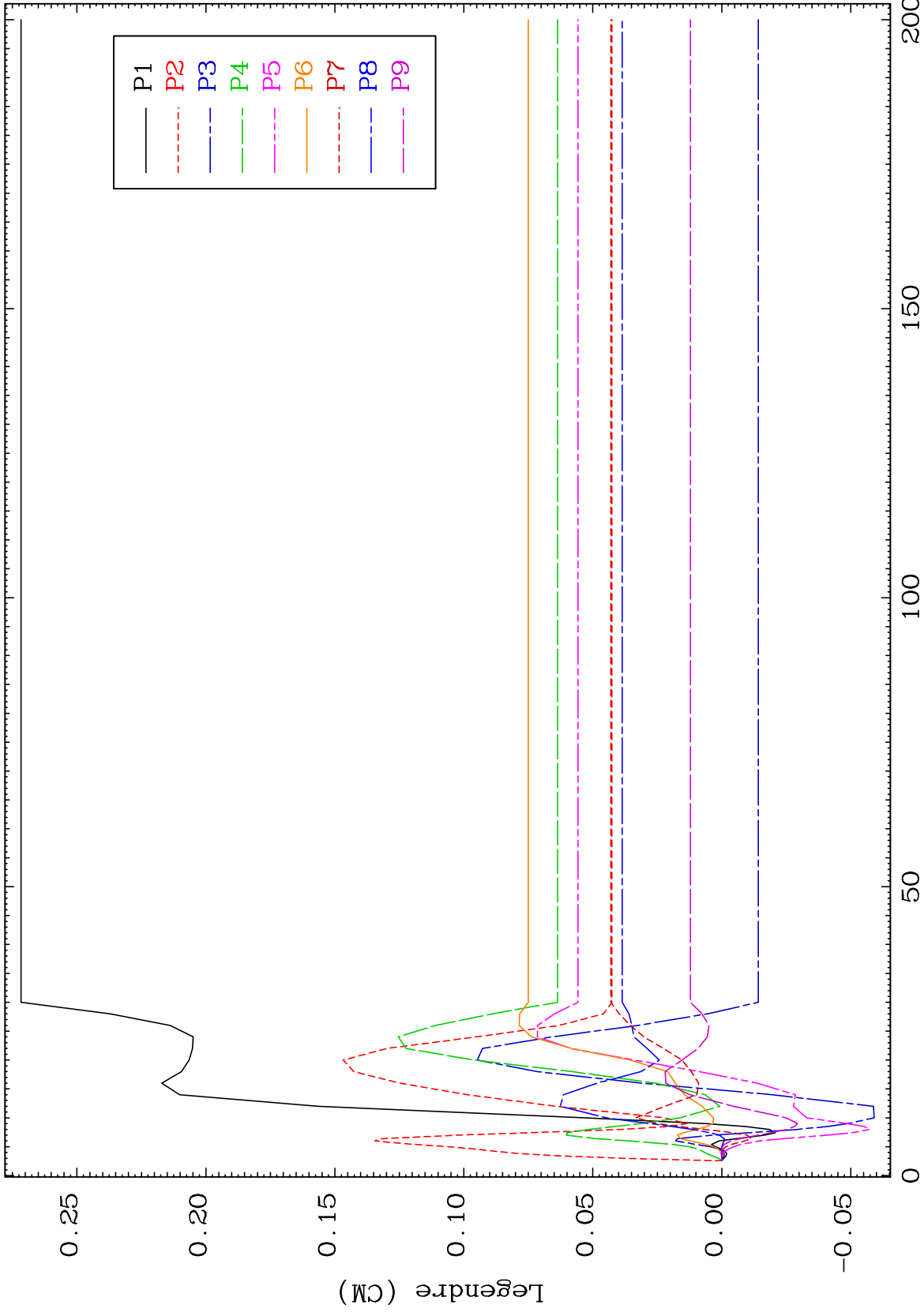
Incident Energy (MeV)

112

MAT 5643

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

56-Ba-136



113

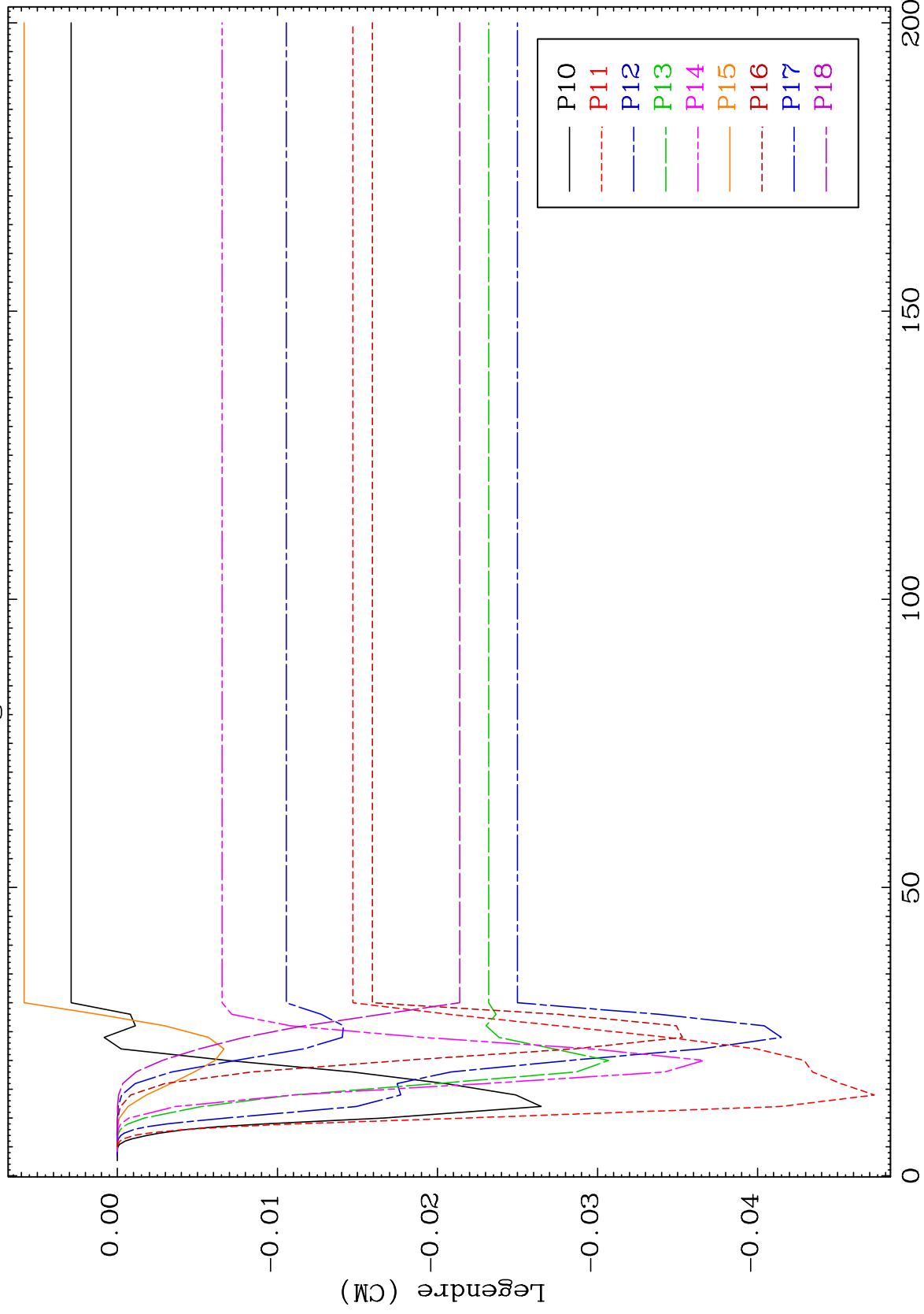
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

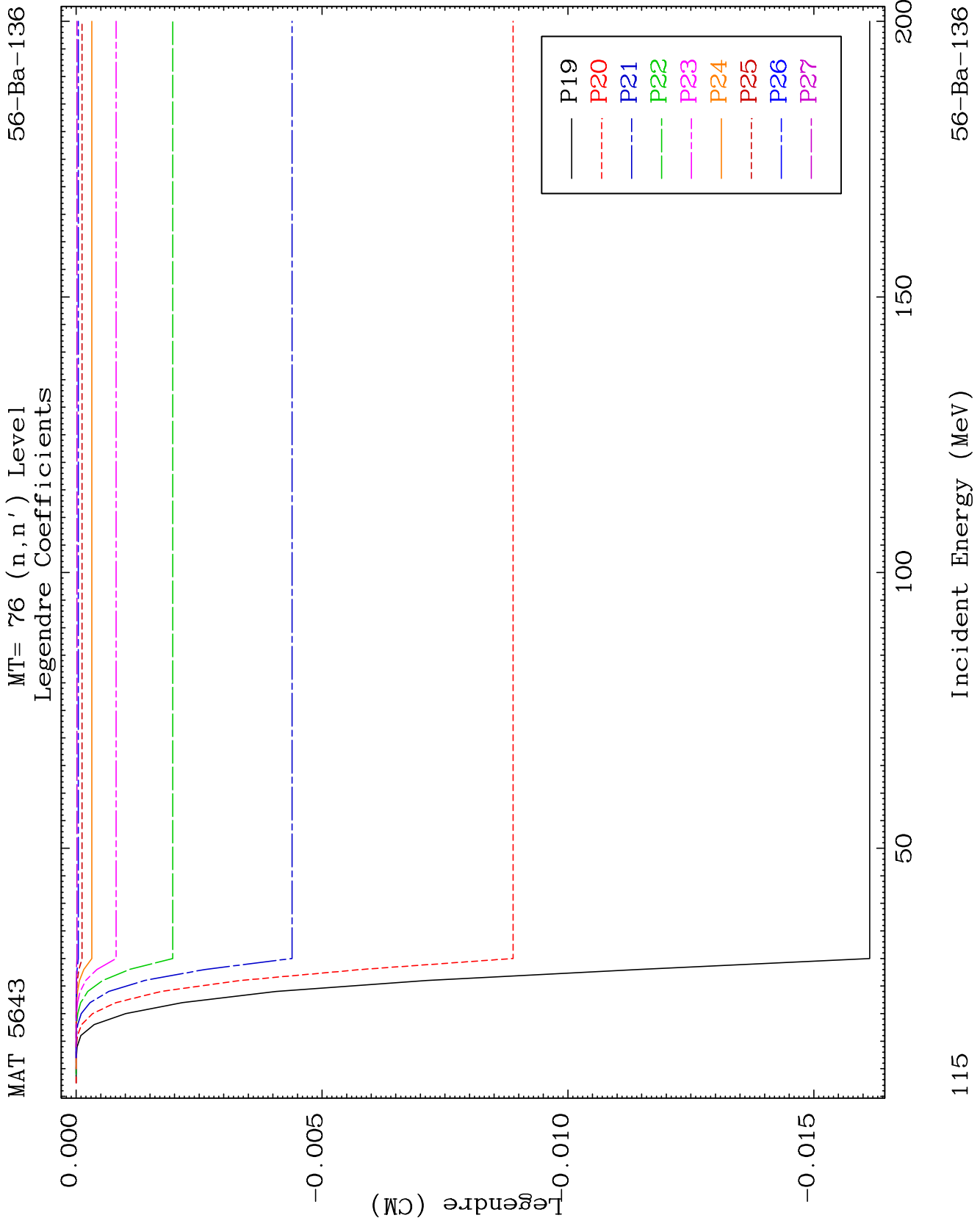
56-Ba-136

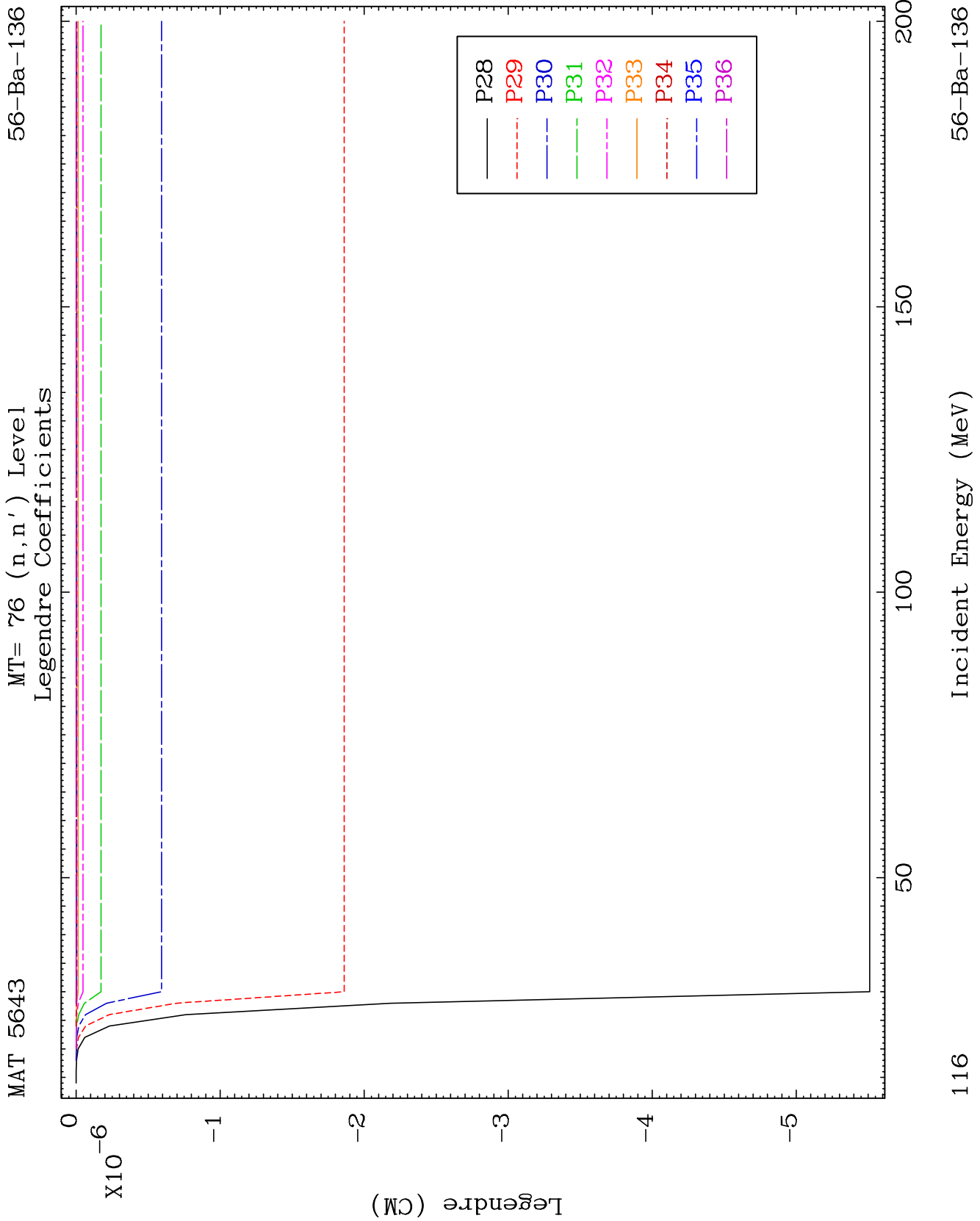


114

Incident Energy (MeV)

56-Ba-136

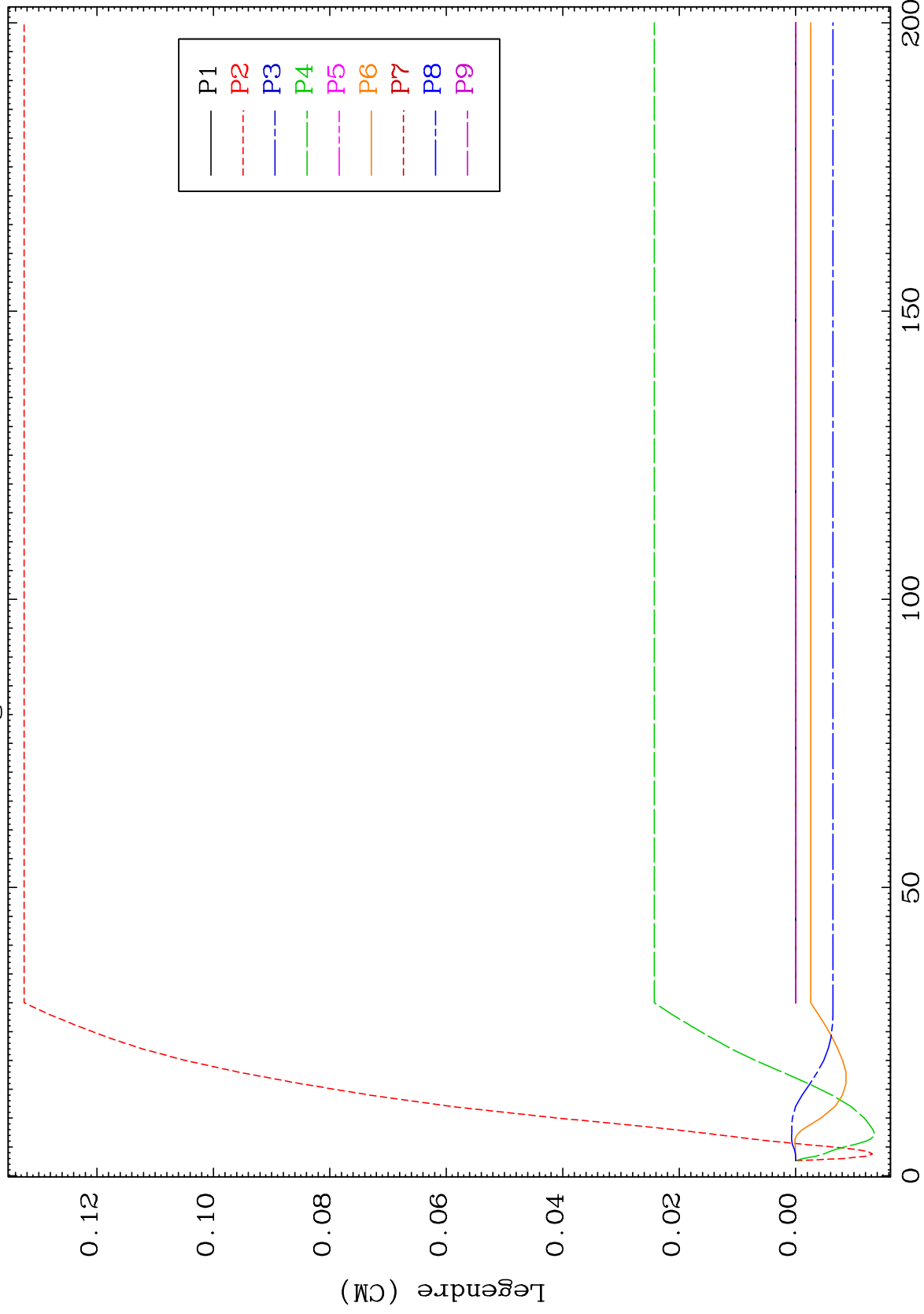




MAT 5643

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

56-Ba-136



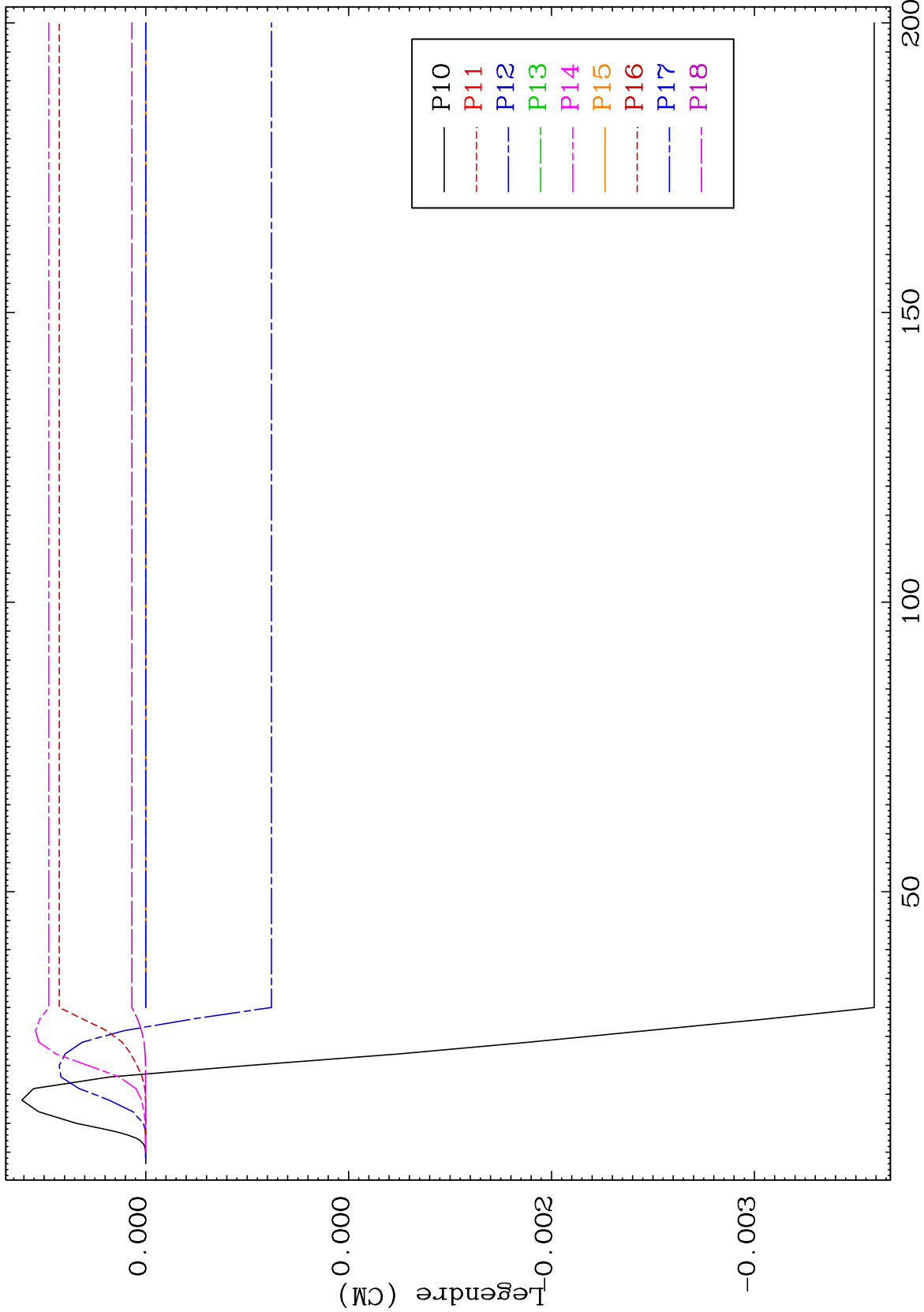
117

56-Ba-136

MAT 5643

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

56-Ba-136



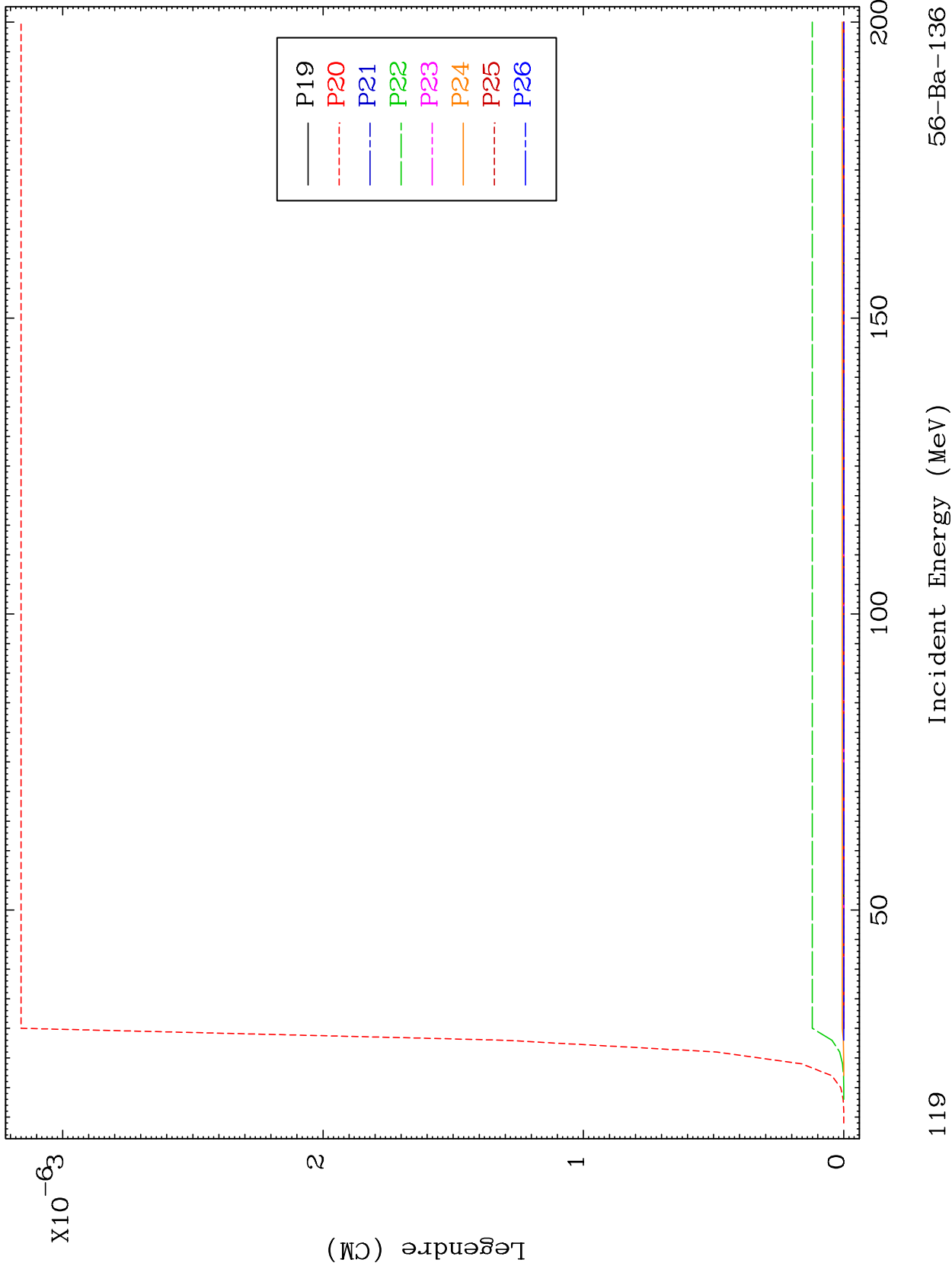
118

56-Ba-136

MAT 5643

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

56-Ba-136



56-Ba-136

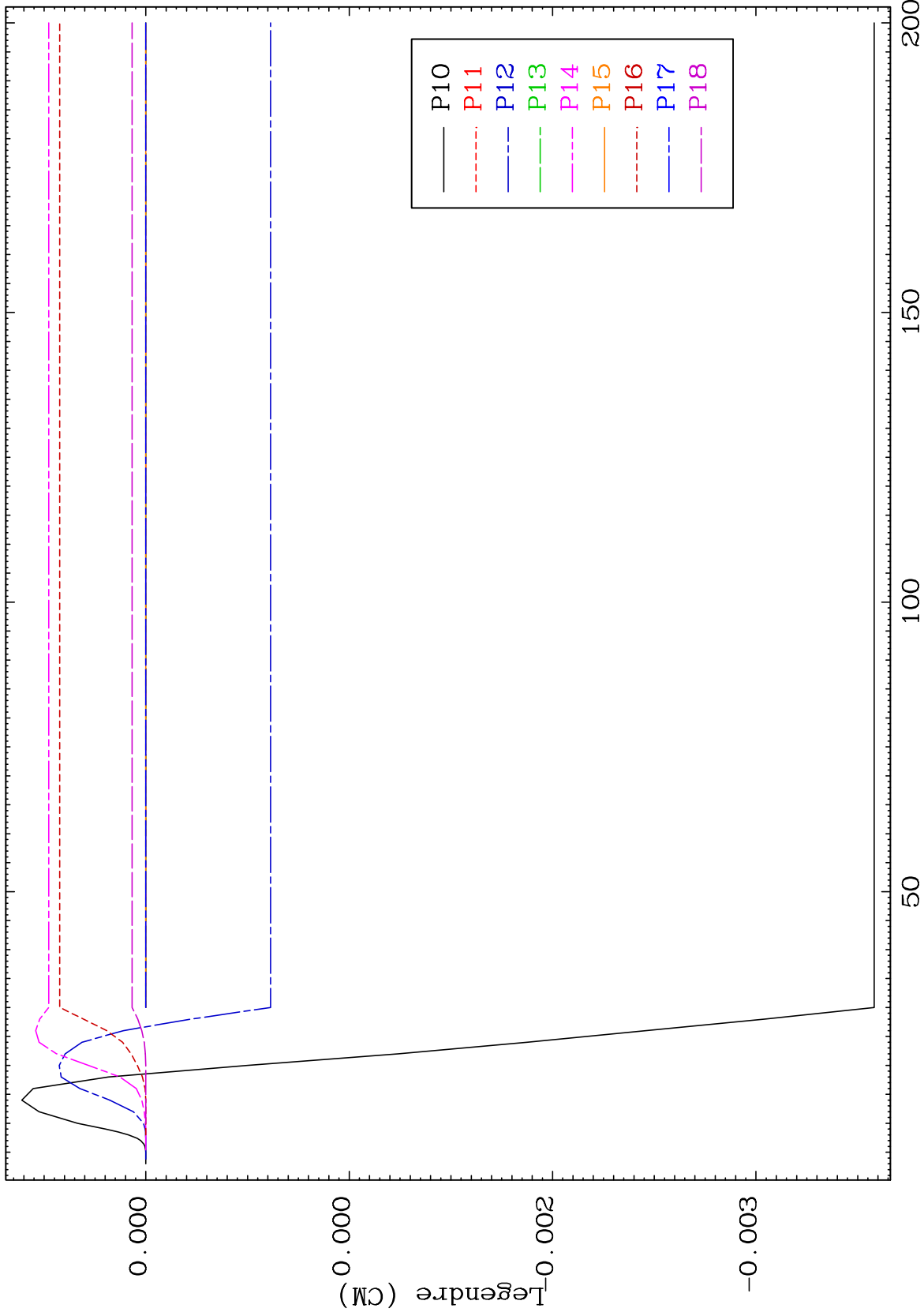
Incident Energy (MeV)

119

MAT 5643

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

56-Ba-136



121

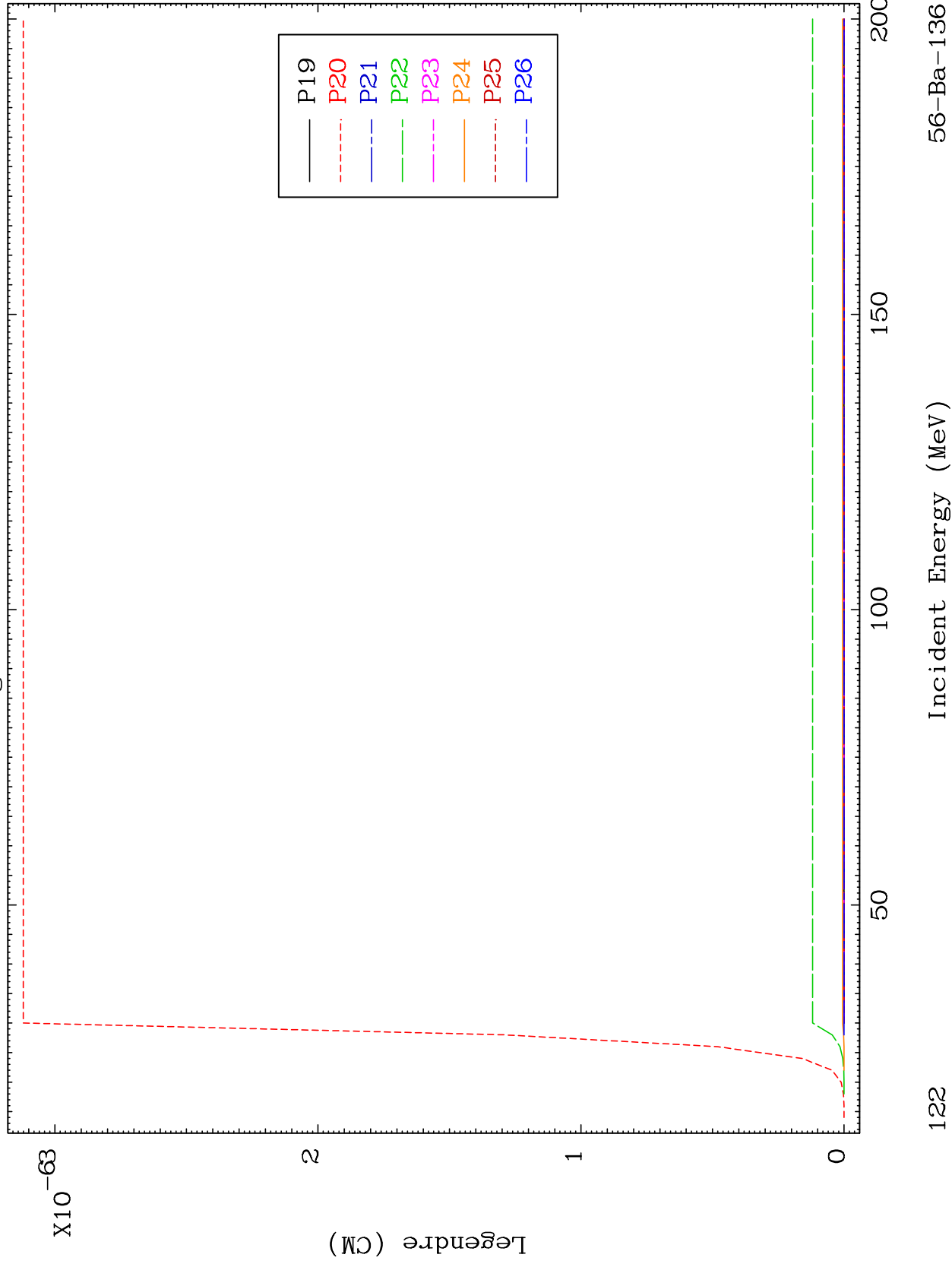
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

56-Ba-136

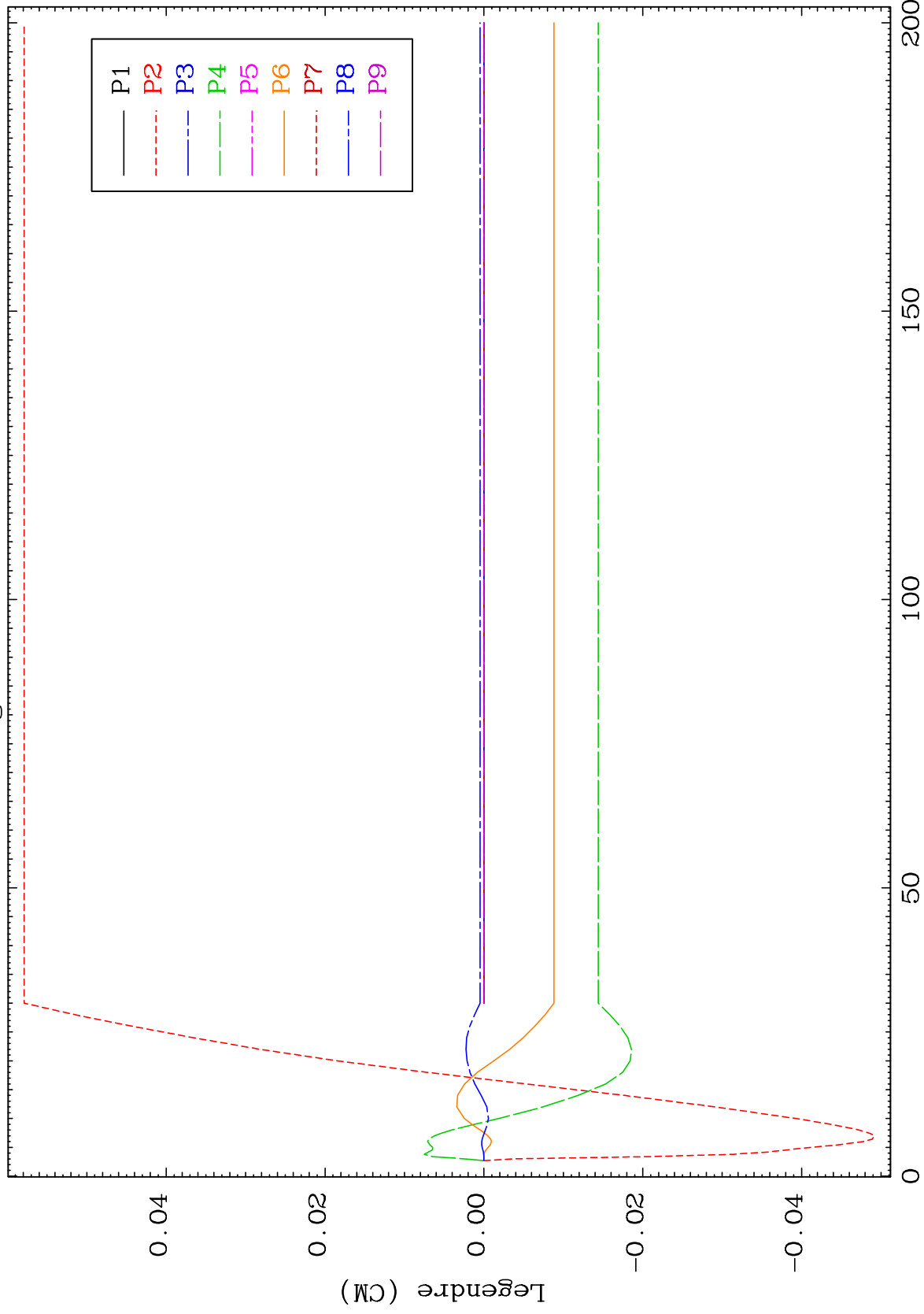


122

MAT 5643

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

56-Ba-136



123

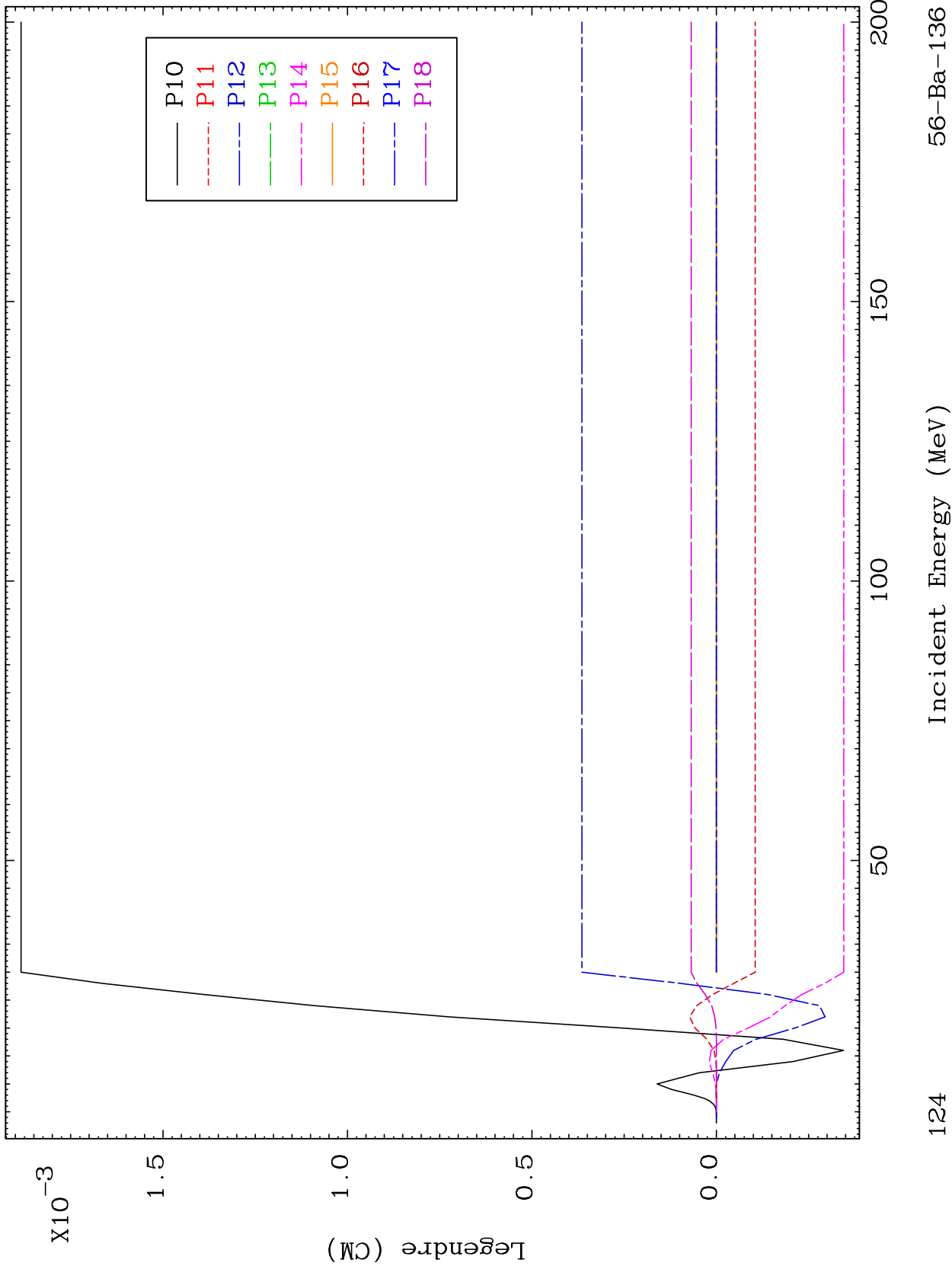
Incident Energy (MeV)

56-Ba-136

MAT 5643

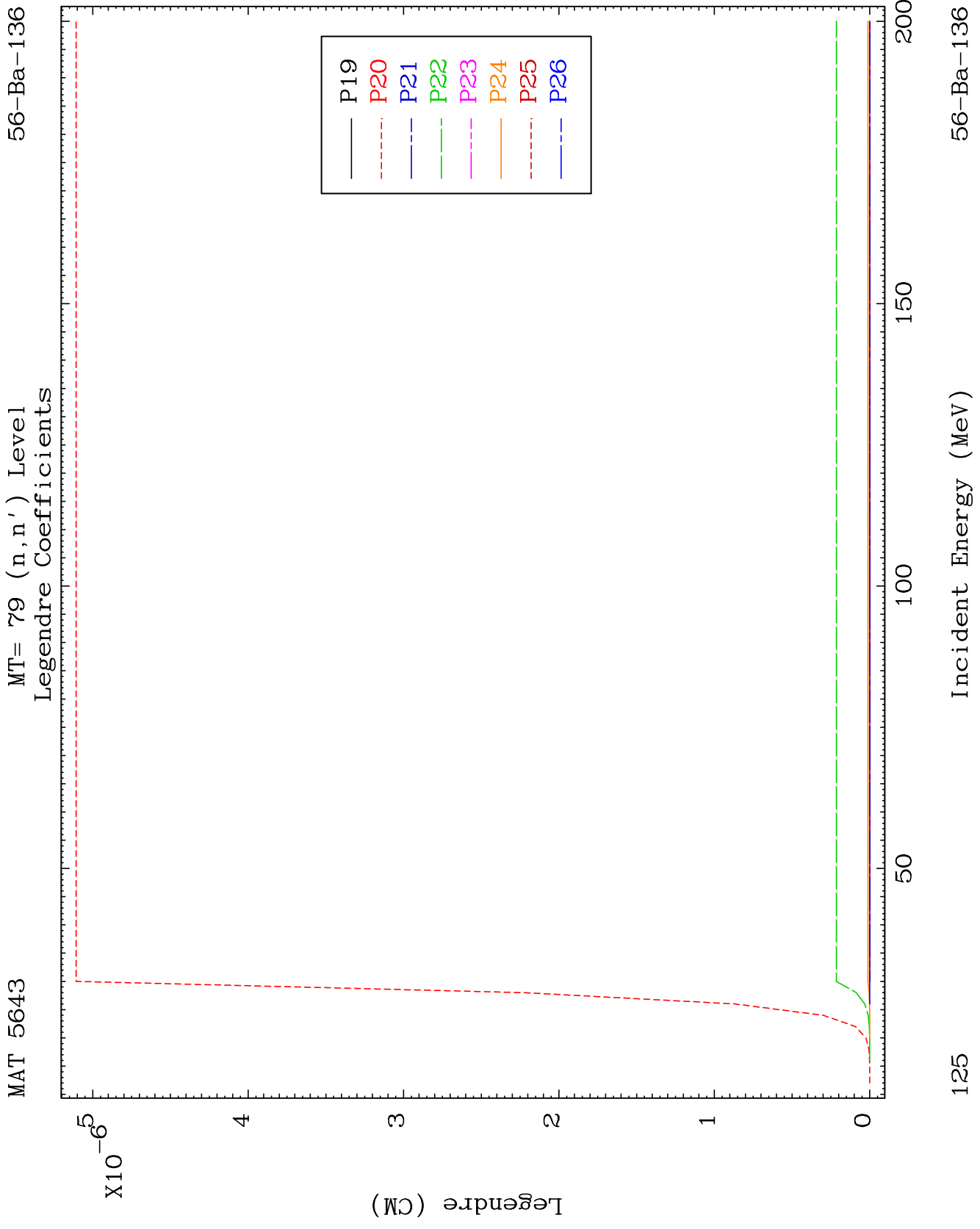
MT= 79 (n,n') Level
Legendre Coefficients

56-Ba-136



124

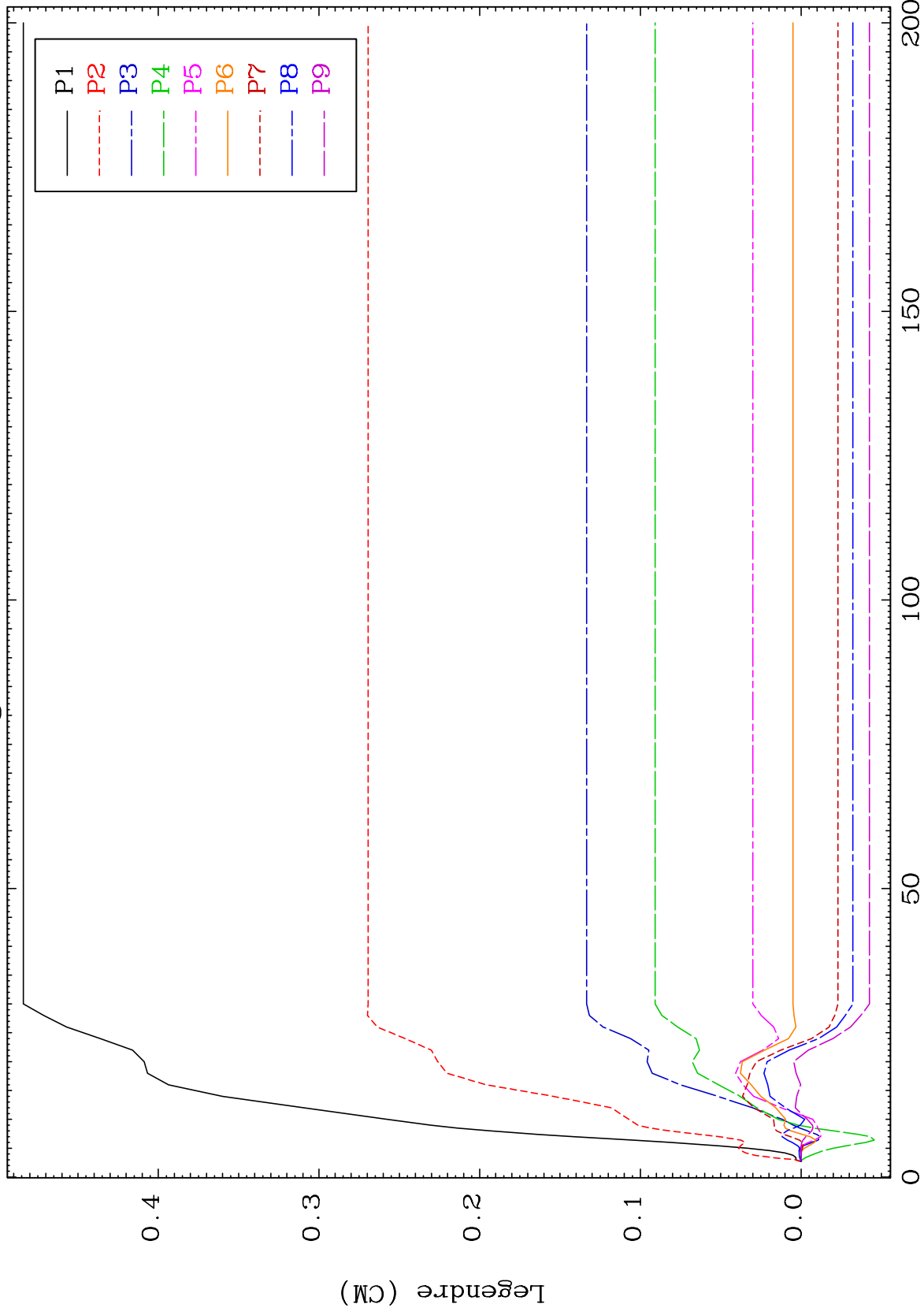
56-Ba-136



MAT 5643

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

56-Ba-136



126

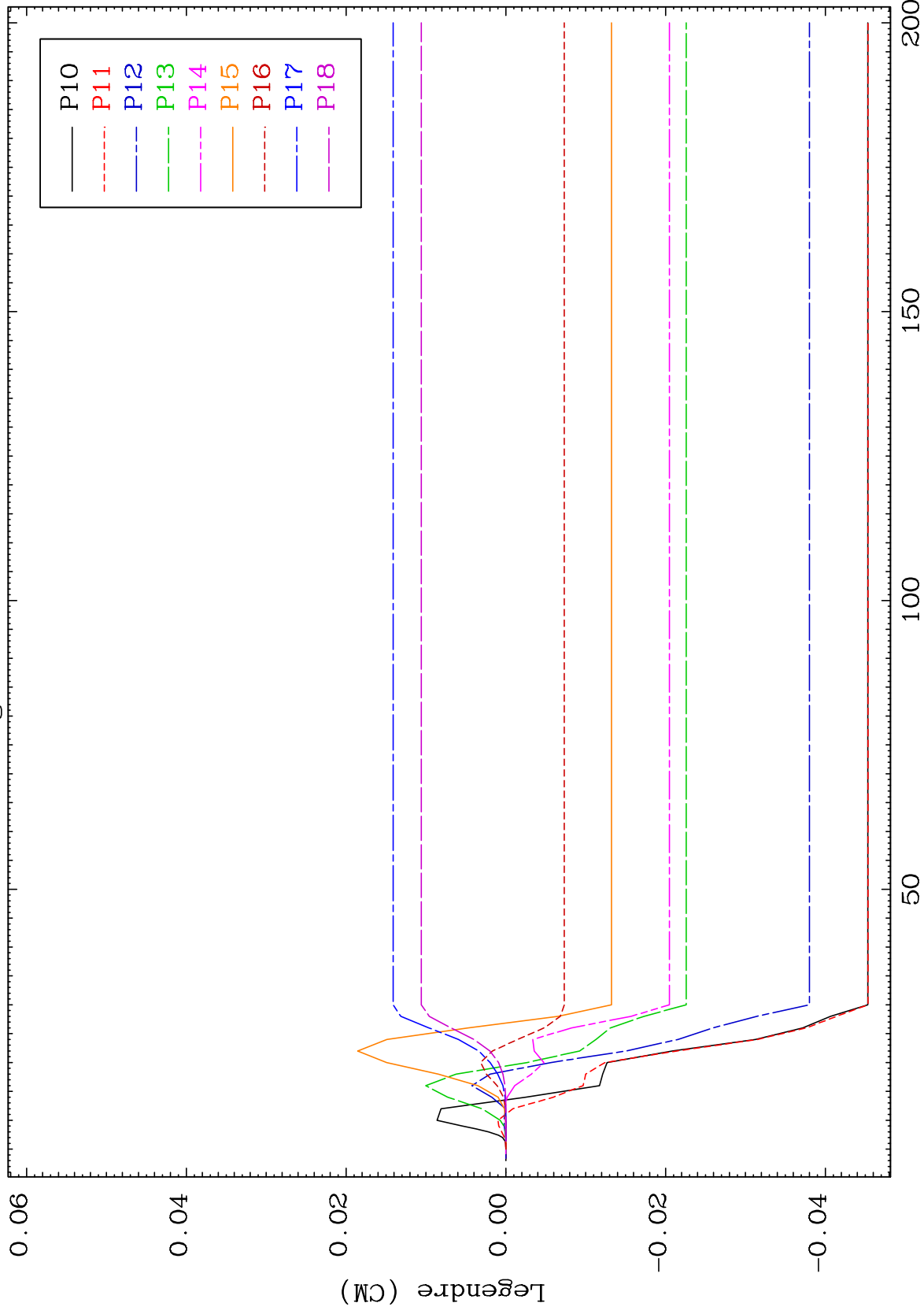
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

56-Ba-136



127

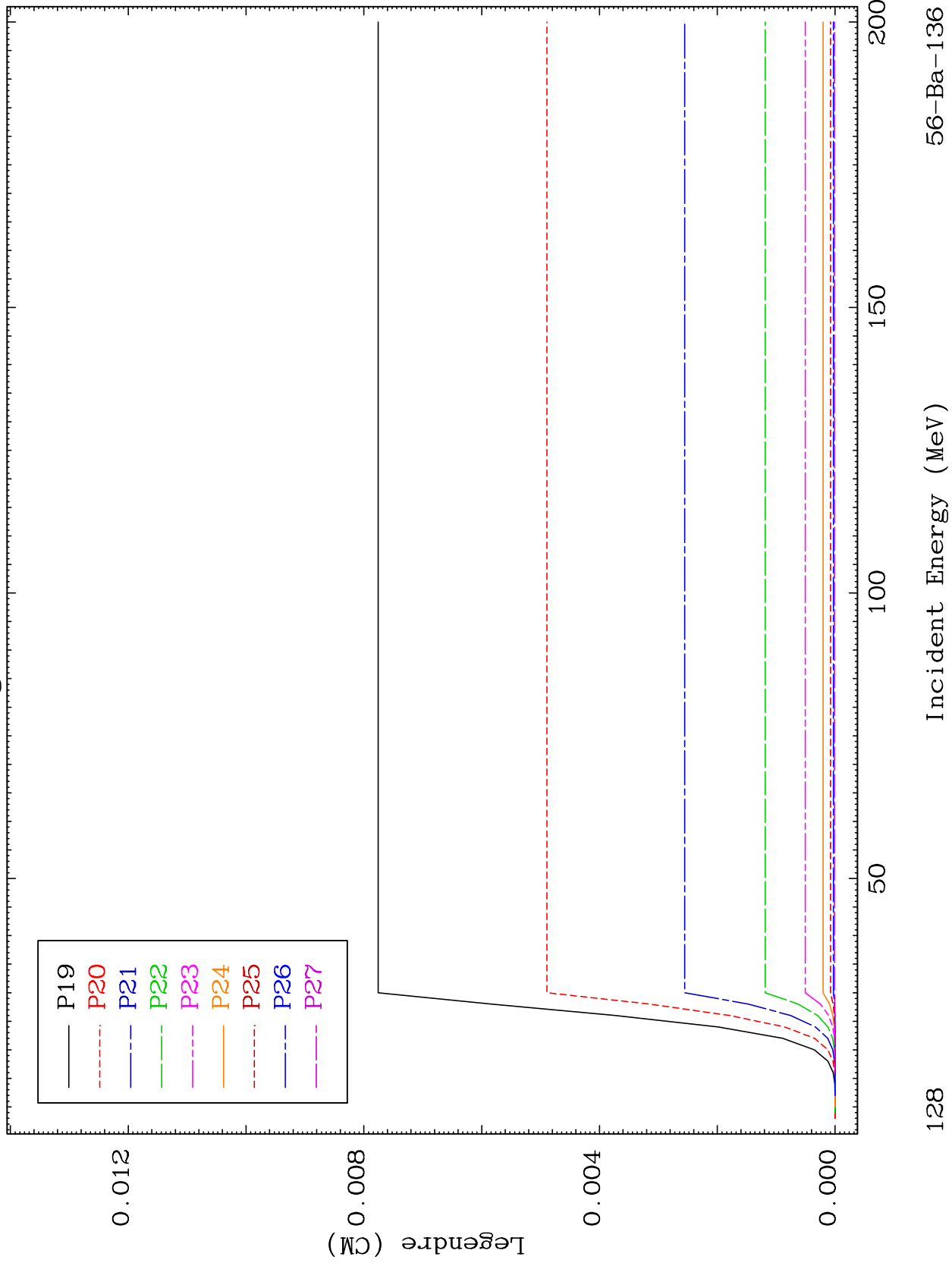
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

56-Ba-136



128

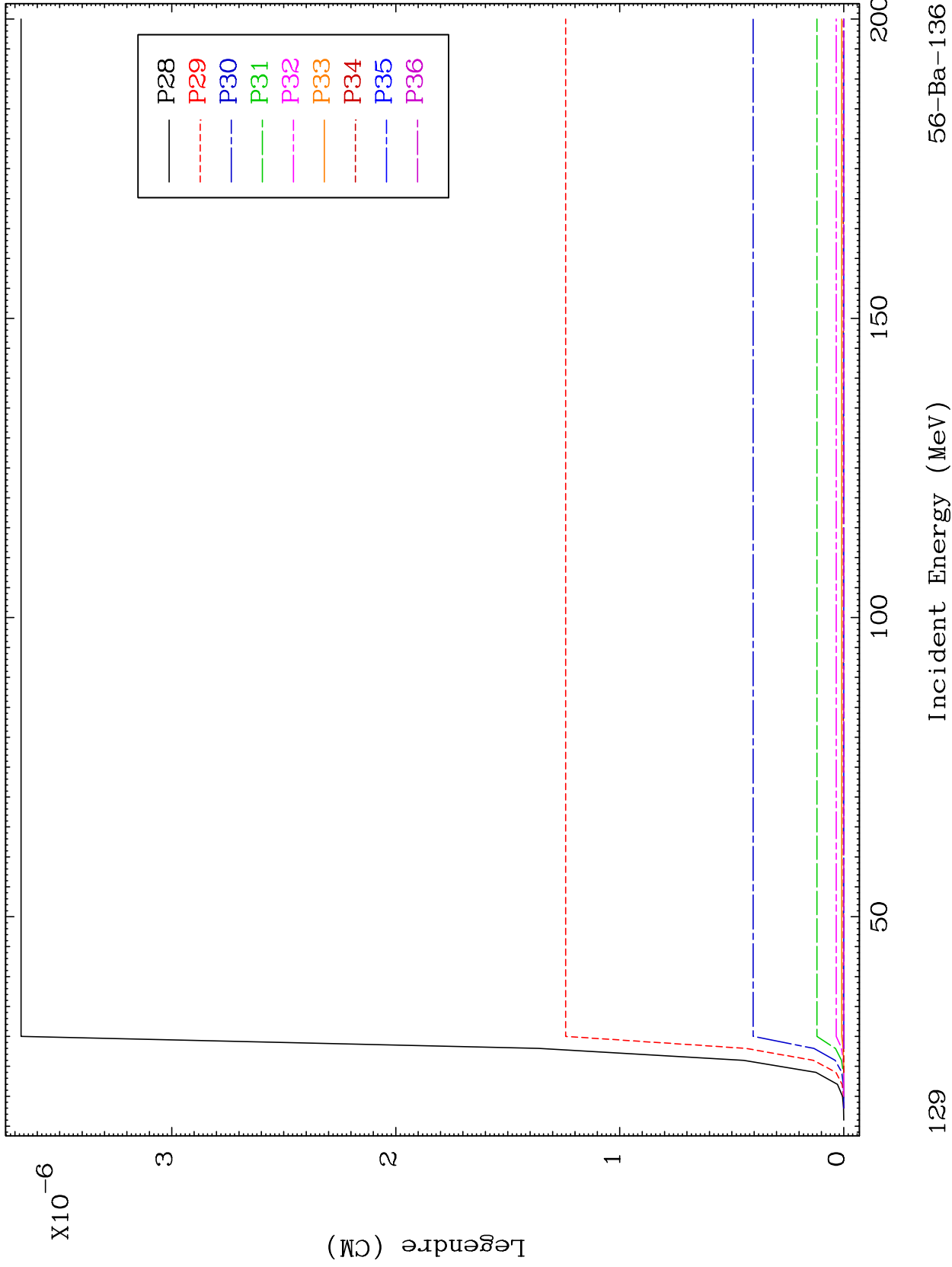
Incident Energy (MeV)

56-Ba-136

MAT 5643

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

56-Ba-136

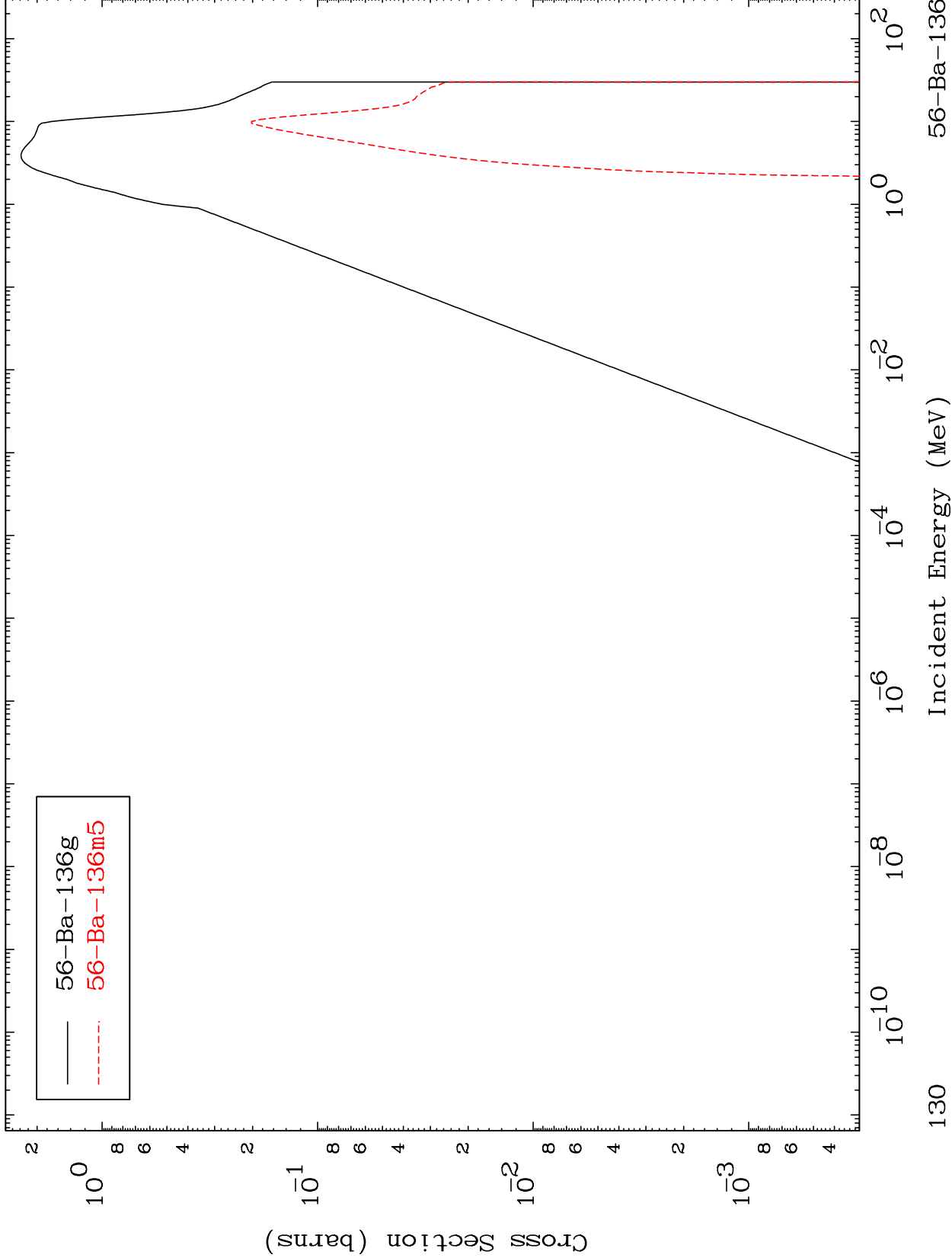


129

MAT 5643

Inelastic
Radionuclide Production Cross Section

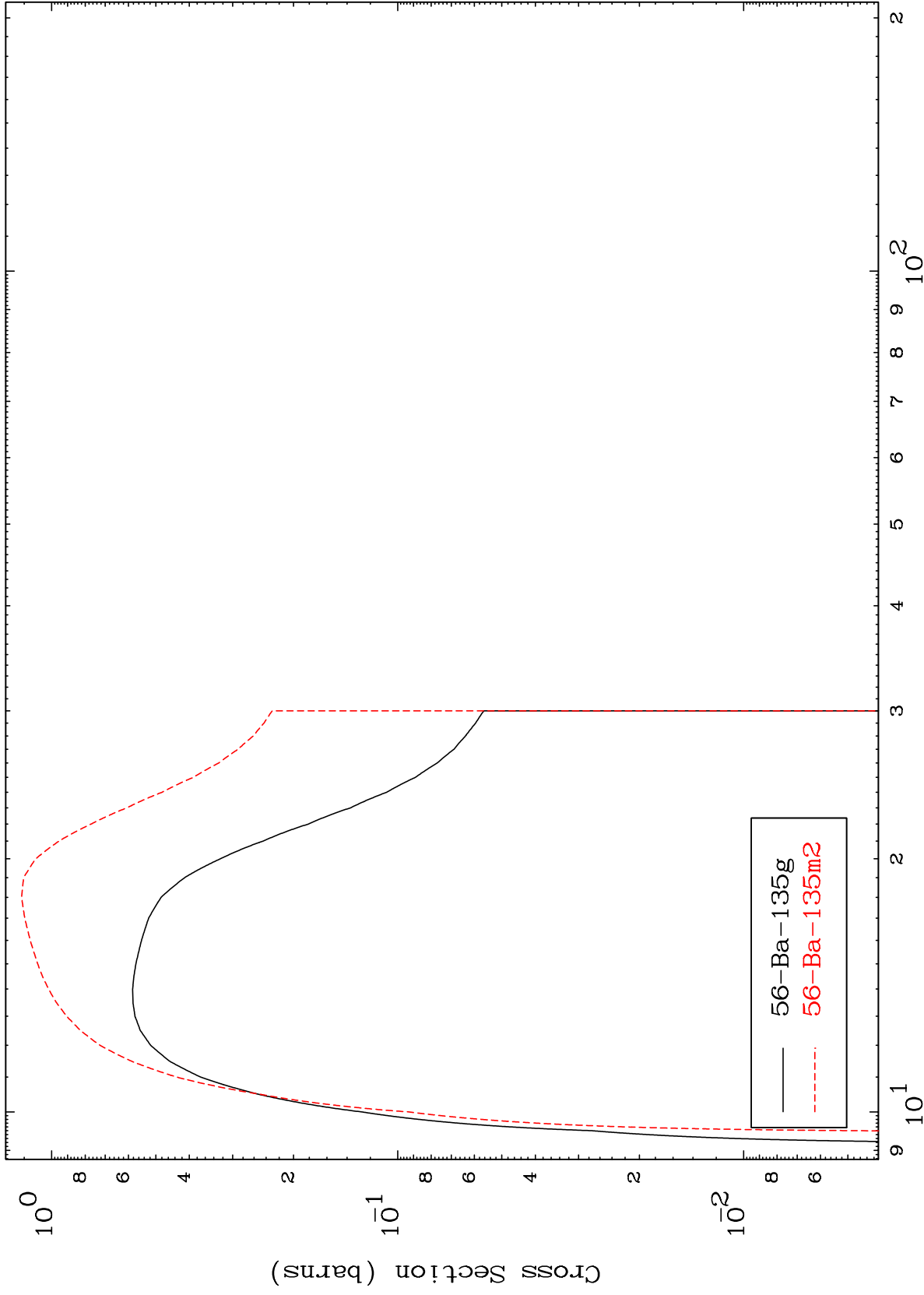
56-Ba-136



MAT 5643

56-Ba-136

(n,2n)
Radionuclide Production Cross Section



56-Ba-136

Incident Energy (MeV)

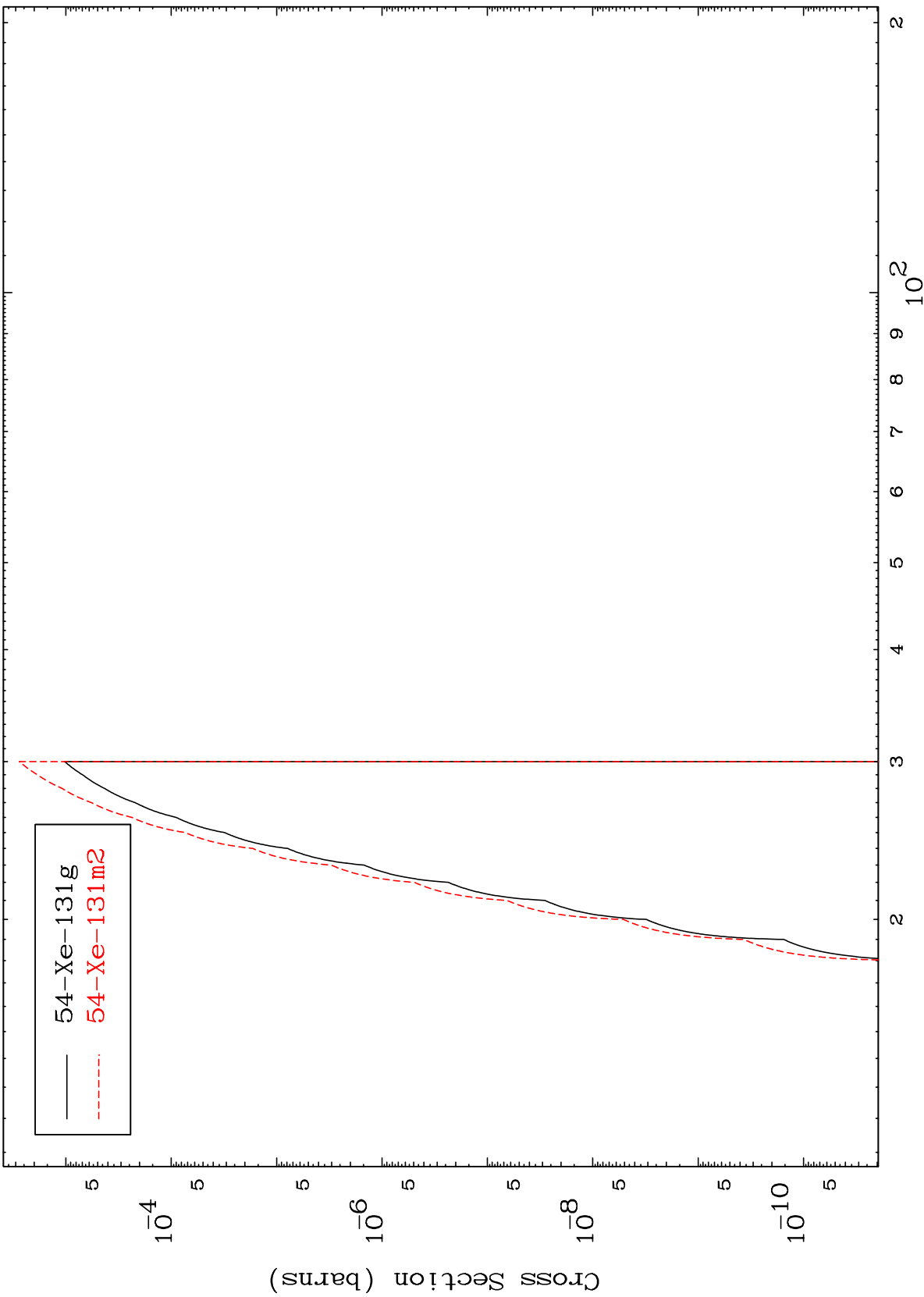
131

MAT 5643

(n,2n) α

56-Ba-136

Radionuclide Production Cross Section



132

Incident Energy (MeV)

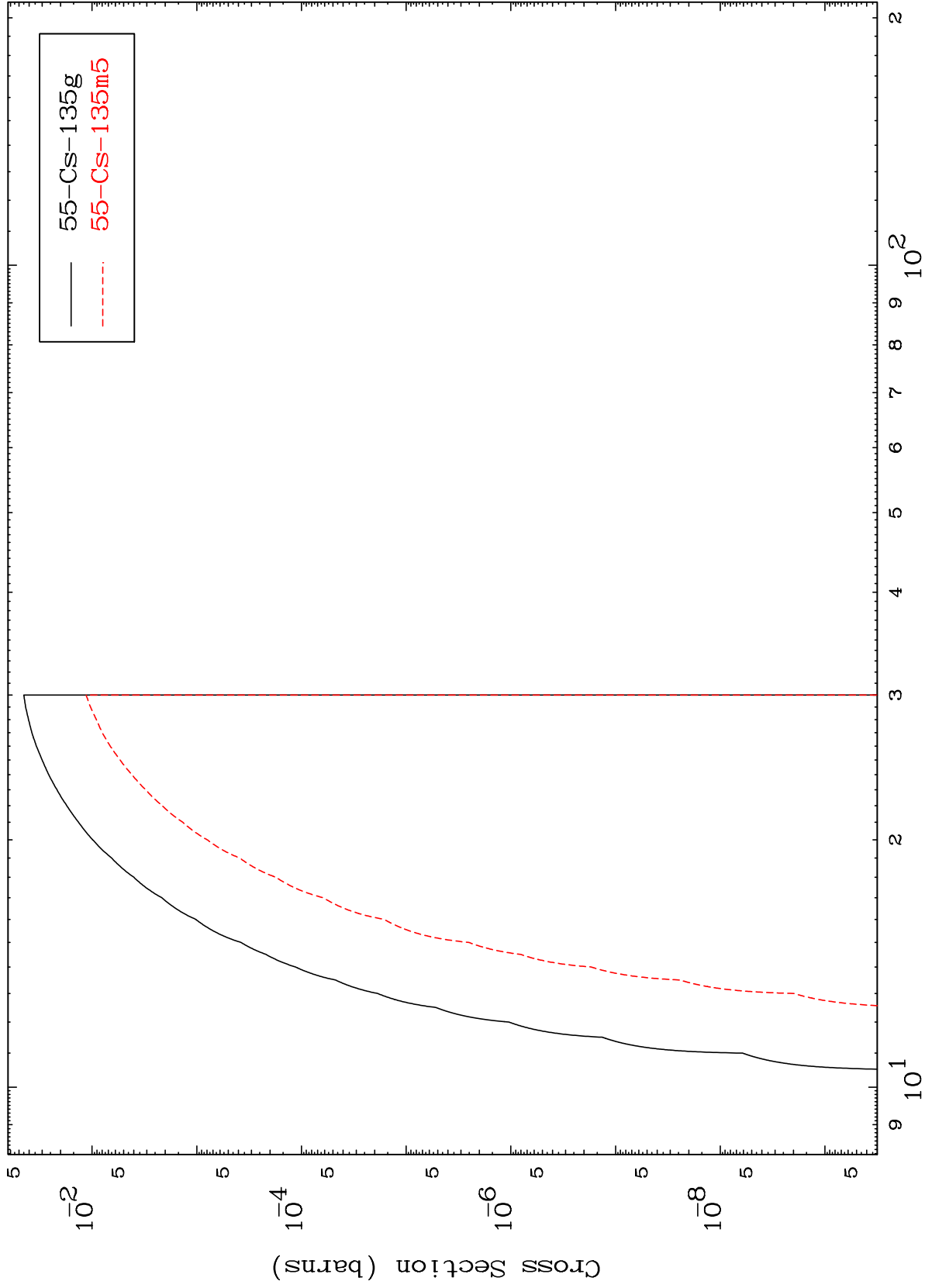
56-Ba-136

MAT 5643

(n,n') p

56-Ba-136

Radionuclide Production Cross Section



133

Incident Energy (MeV)

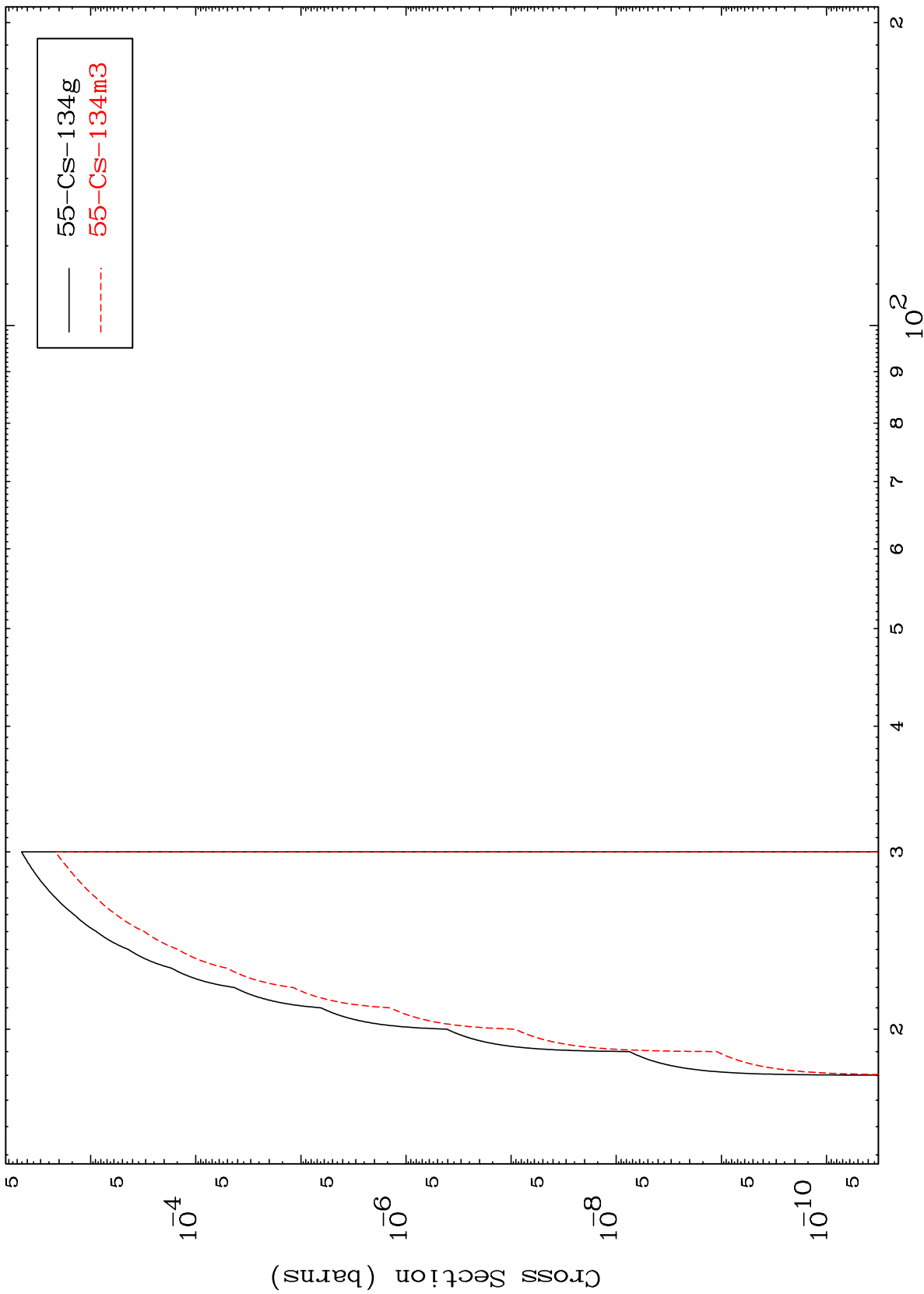
56-Ba-136

MAT 5643

(n,n') d

56-Ba-136

Radionuclide Production Cross Section



134

Incident Energy (MeV)

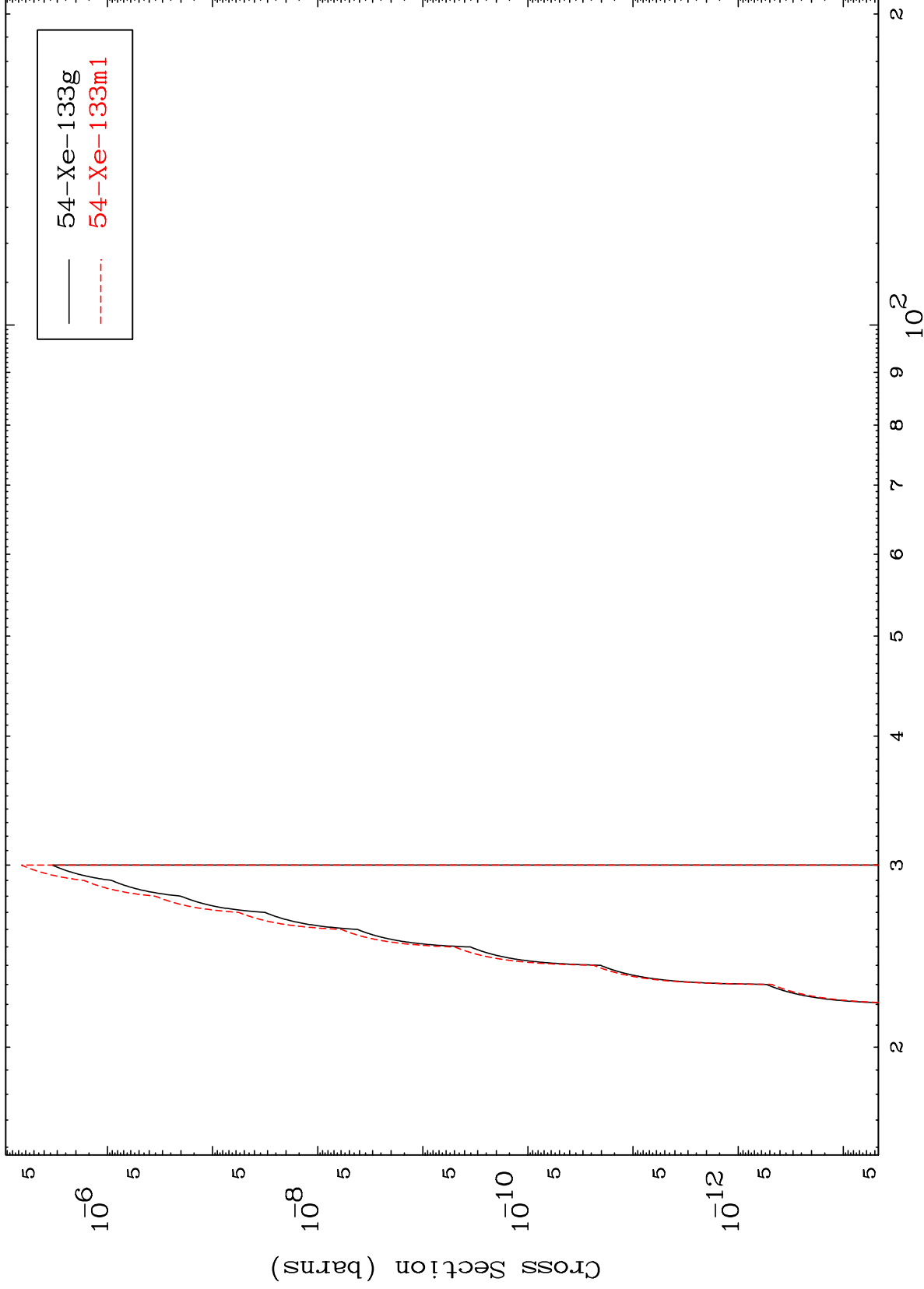
56-Ba-136

MAT 5643

(n,n') He-3

56-Ba-136

Radionuclide Production Cross Section



135

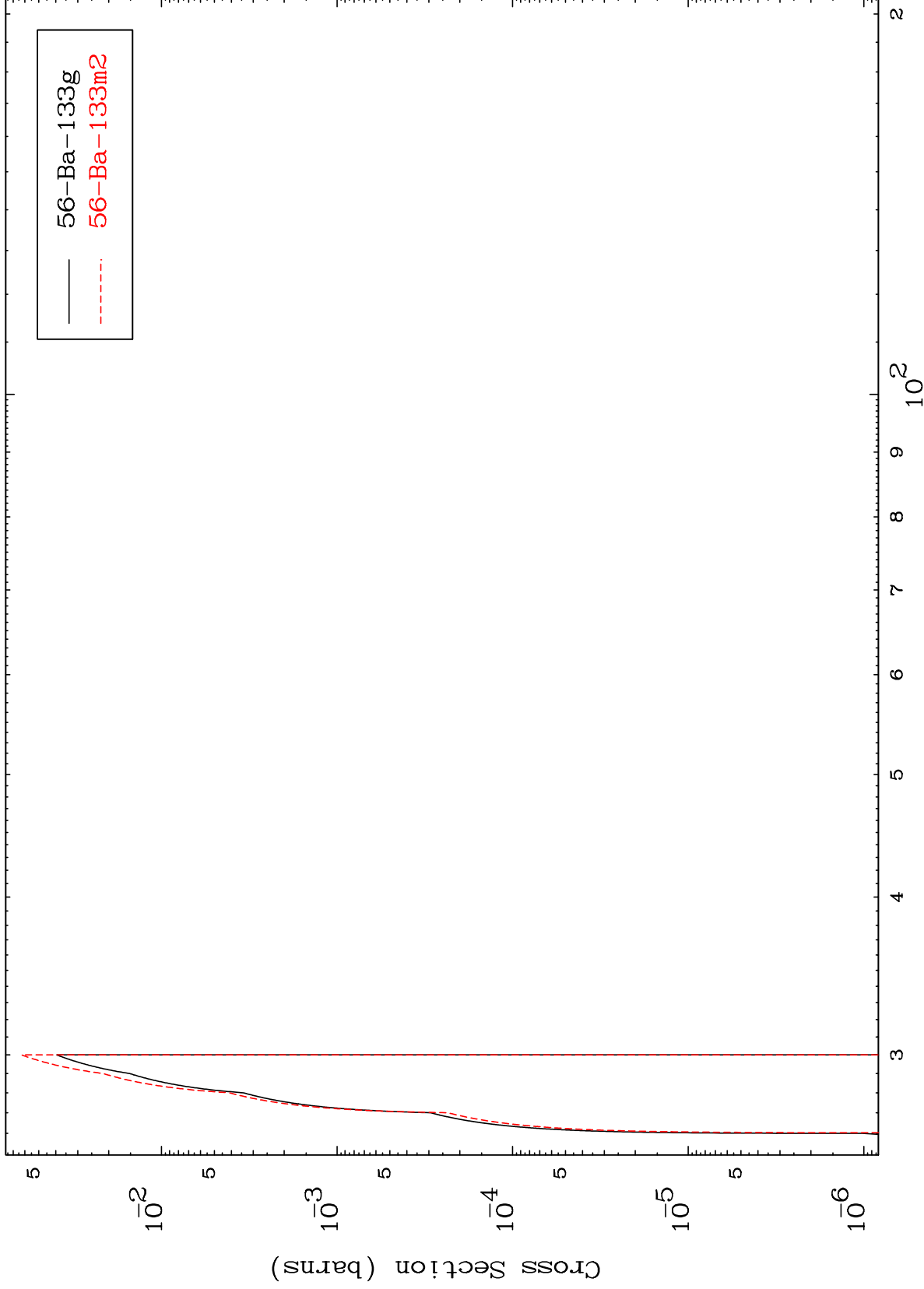
Incident Energy (MeV)

56-Ba-136

MAT 5643

56-Ba-136

(n,4n)
Radionuclide Production Cross Section



56-Ba-136

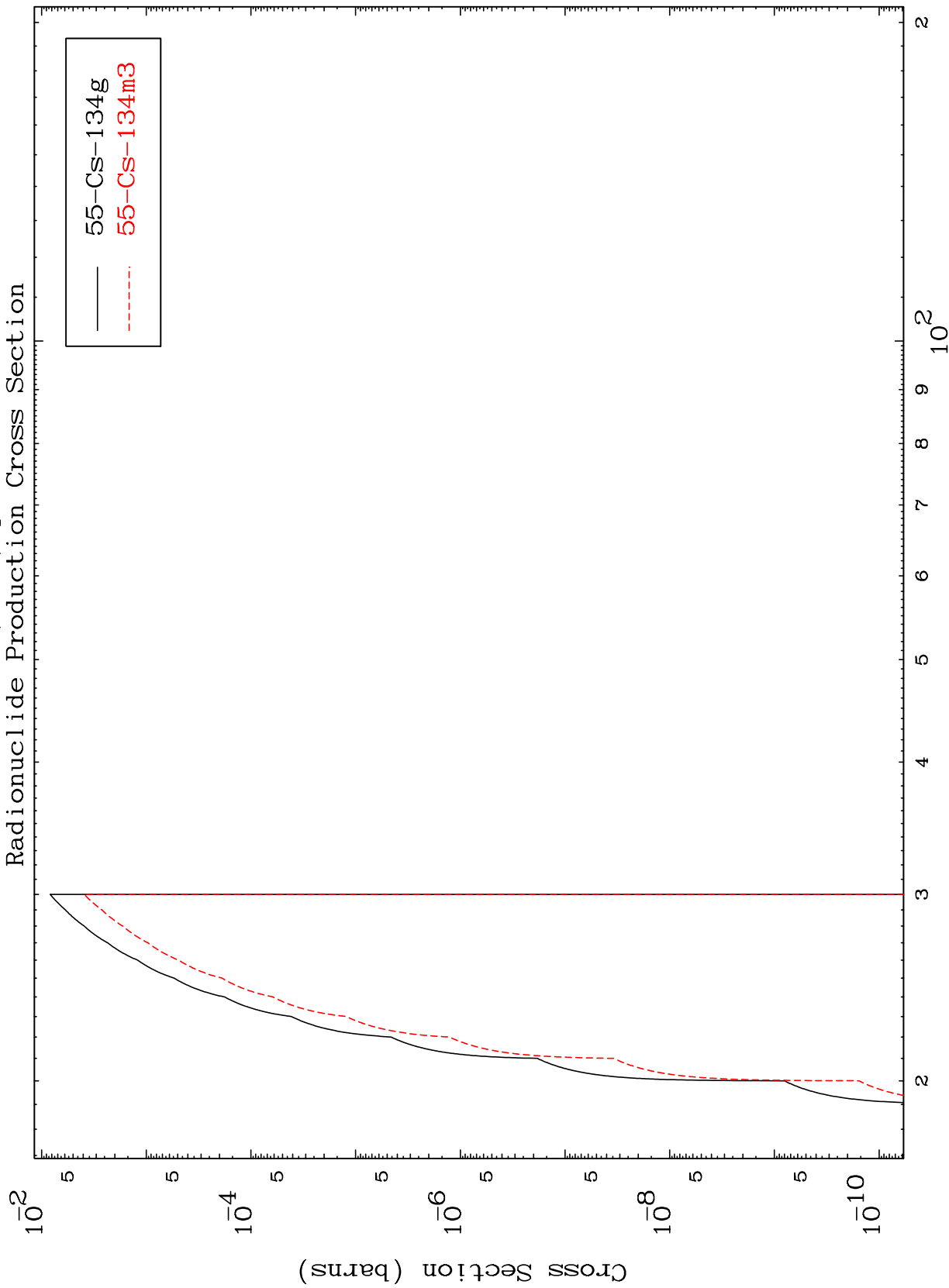
Incident Energy (MeV)

136

MAT 5643

56-Ba-136

(n,2n) p
Radionuclide Production Cross Section



137

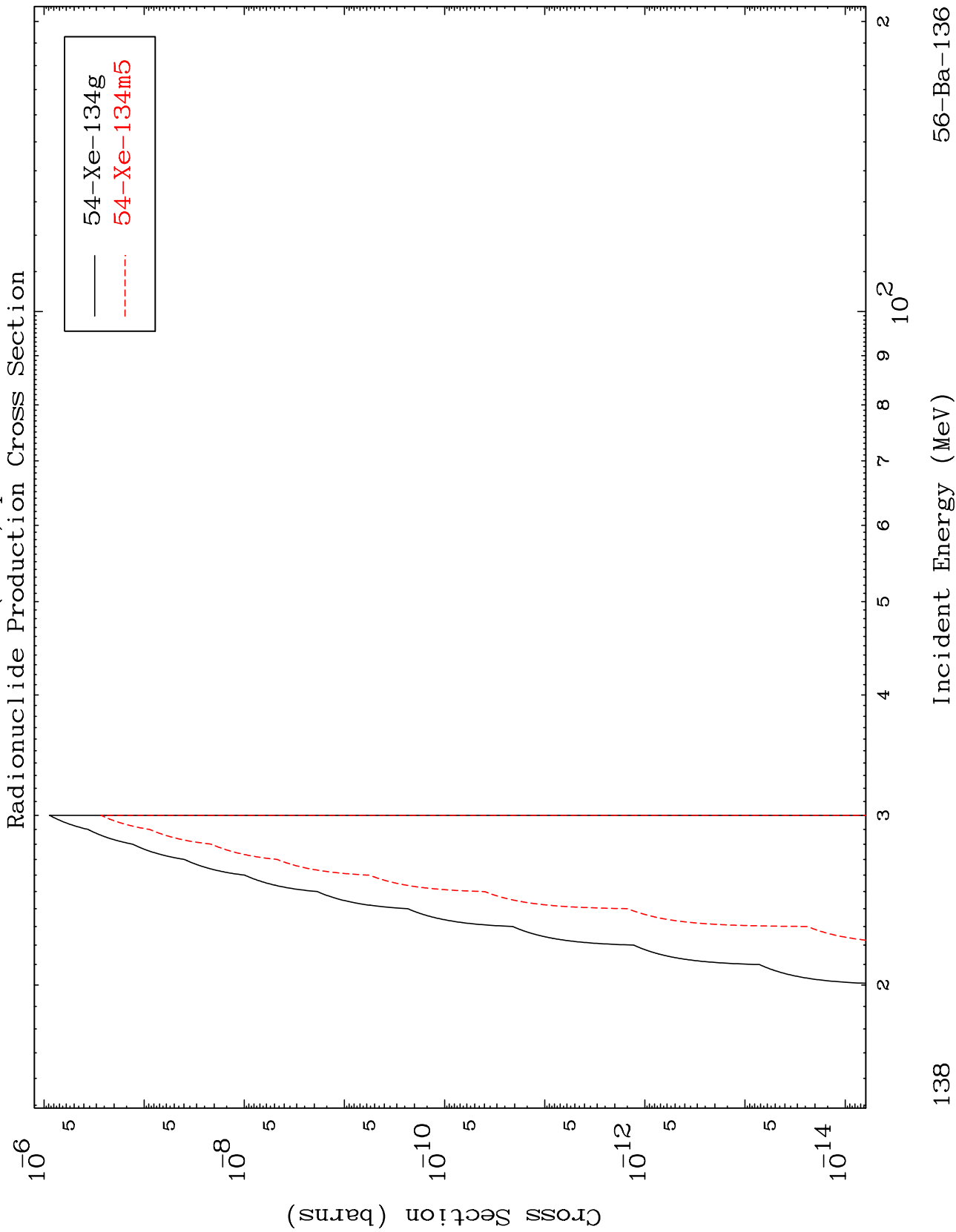
Incident Energy (MeV)

56-Ba-136

MAT 5643

(n,2n) p

56-Ba-136



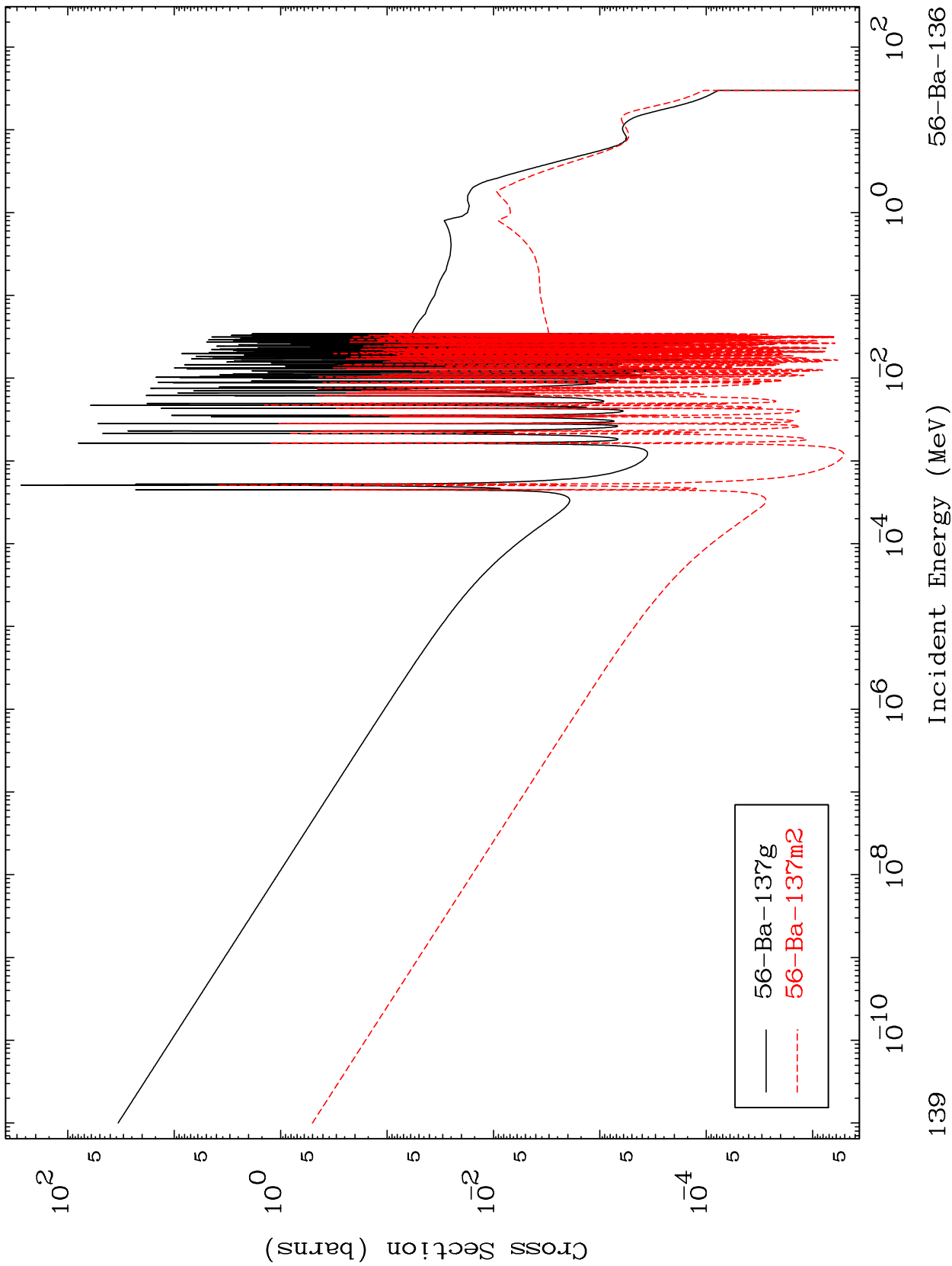
138

56-Ba-136

MAT 5643

56-Ba-136

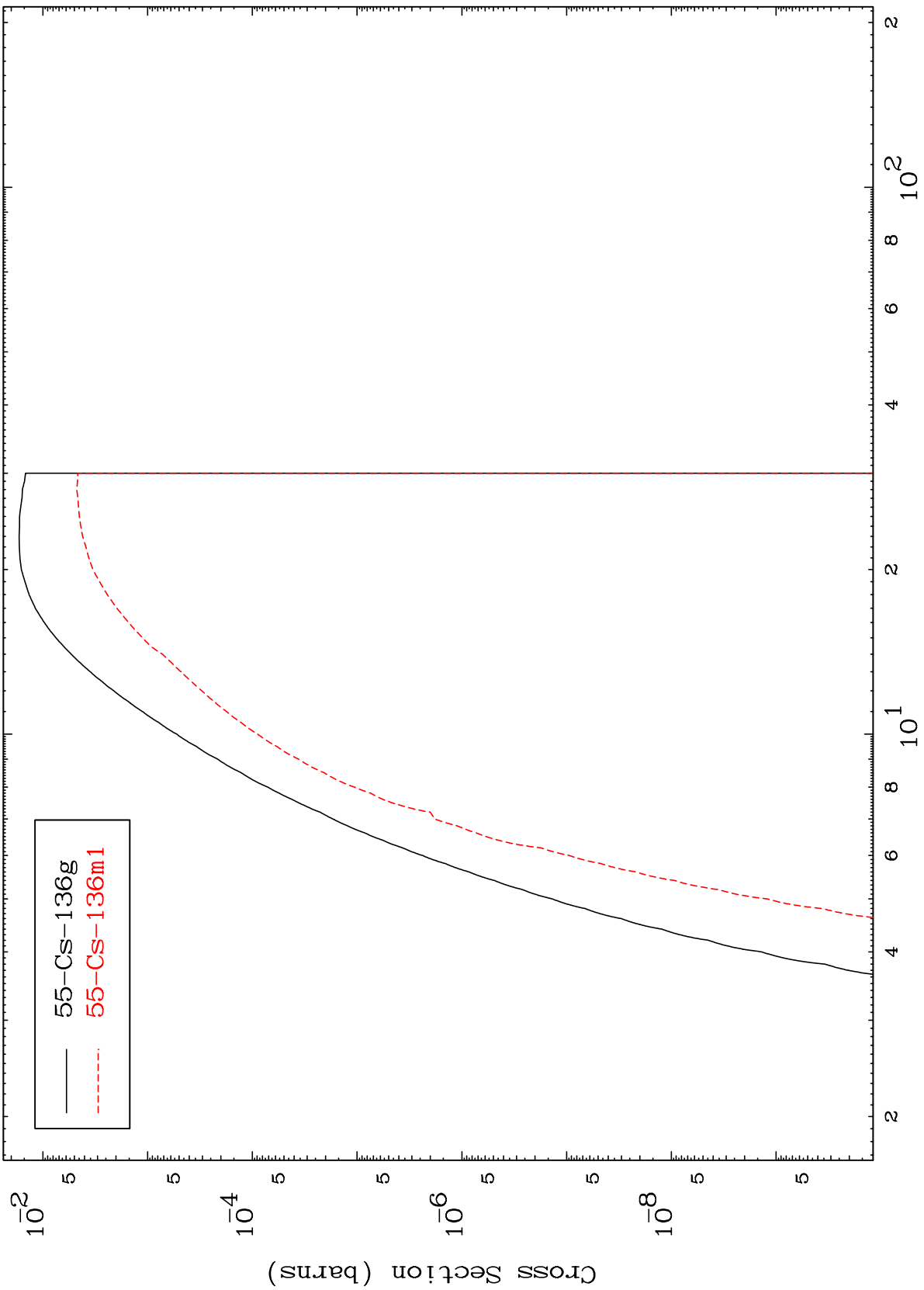
(n, γ)
Radionuclide Production Cross Section



MAT 5643

56-Ba-136

(n,p)
Radionuclide Production Cross Section



140

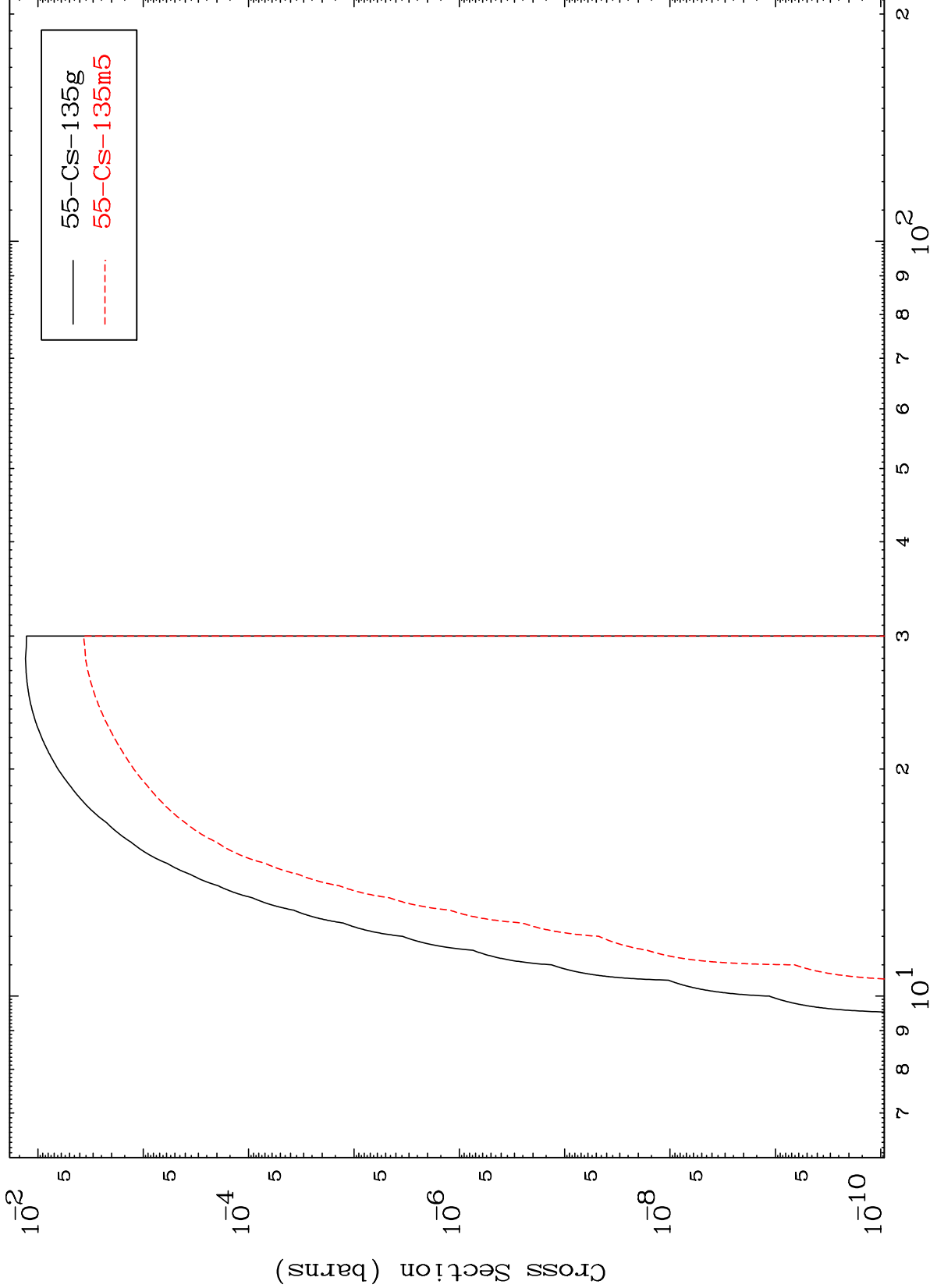
Incident Energy (MeV)

56-Ba-136

MAT 5643

56-Ba-136

(n,d)
Radionuclide Production Cross Section



55-Cs-135g
55-Cs-135m5

141

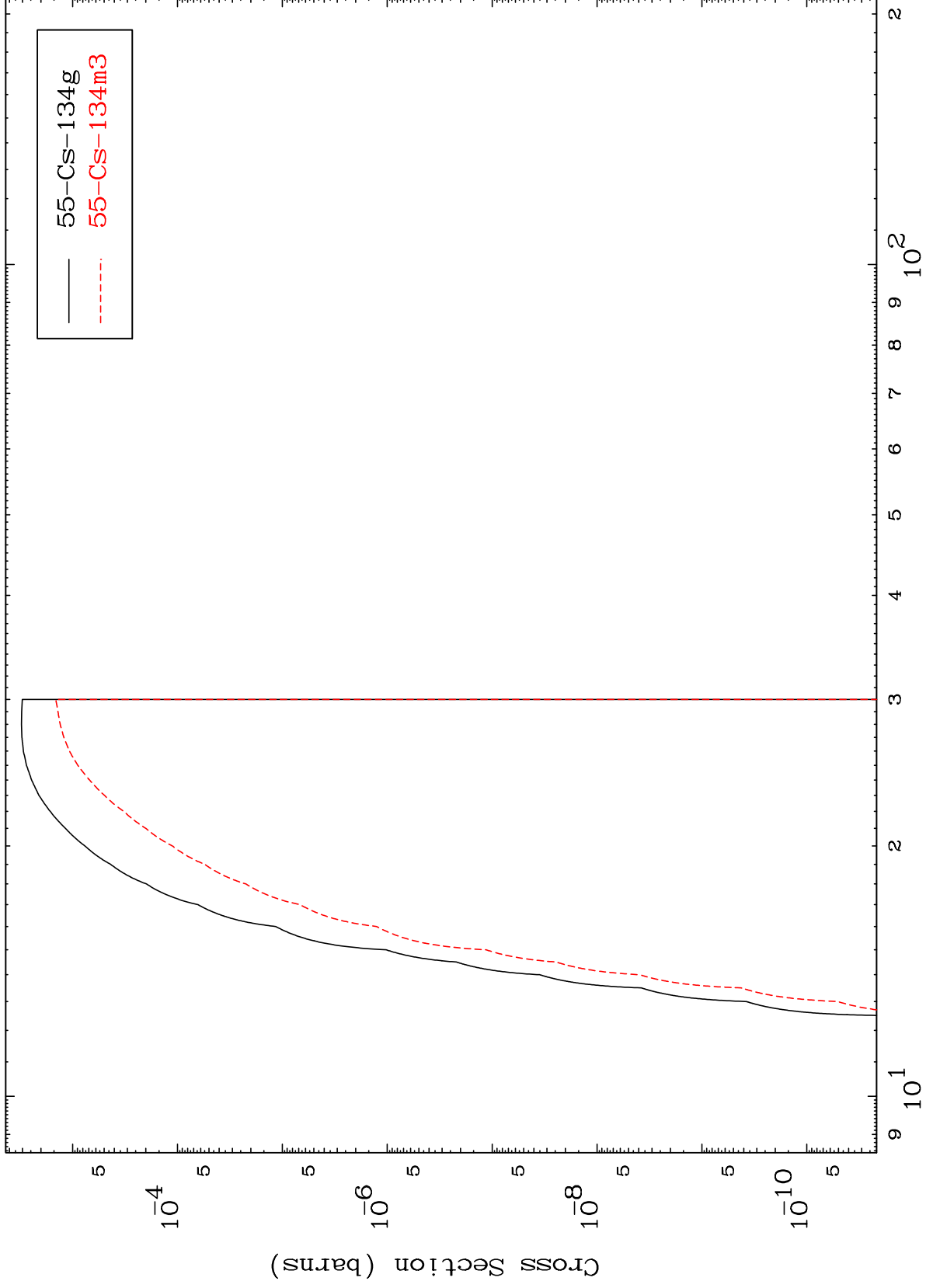
56-Ba-136

Incident Energy (MeV)

MAT 5643

56-Ba-136

(n,t)
Radionuclide Production Cross Section



56-Ba-136

Incident Energy (MeV)

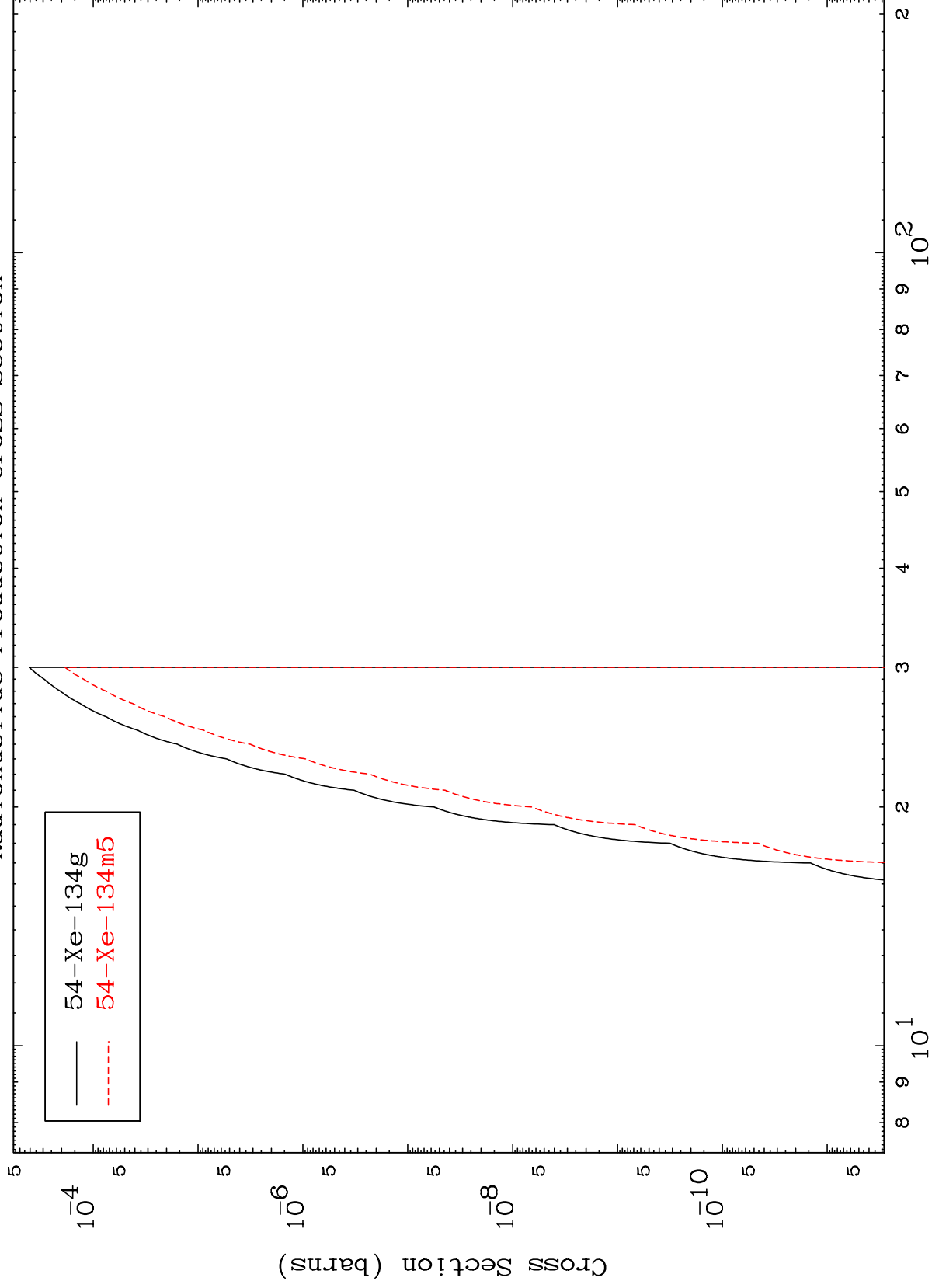
142

MAT 5643

(n,He-3)

56-Ba-136

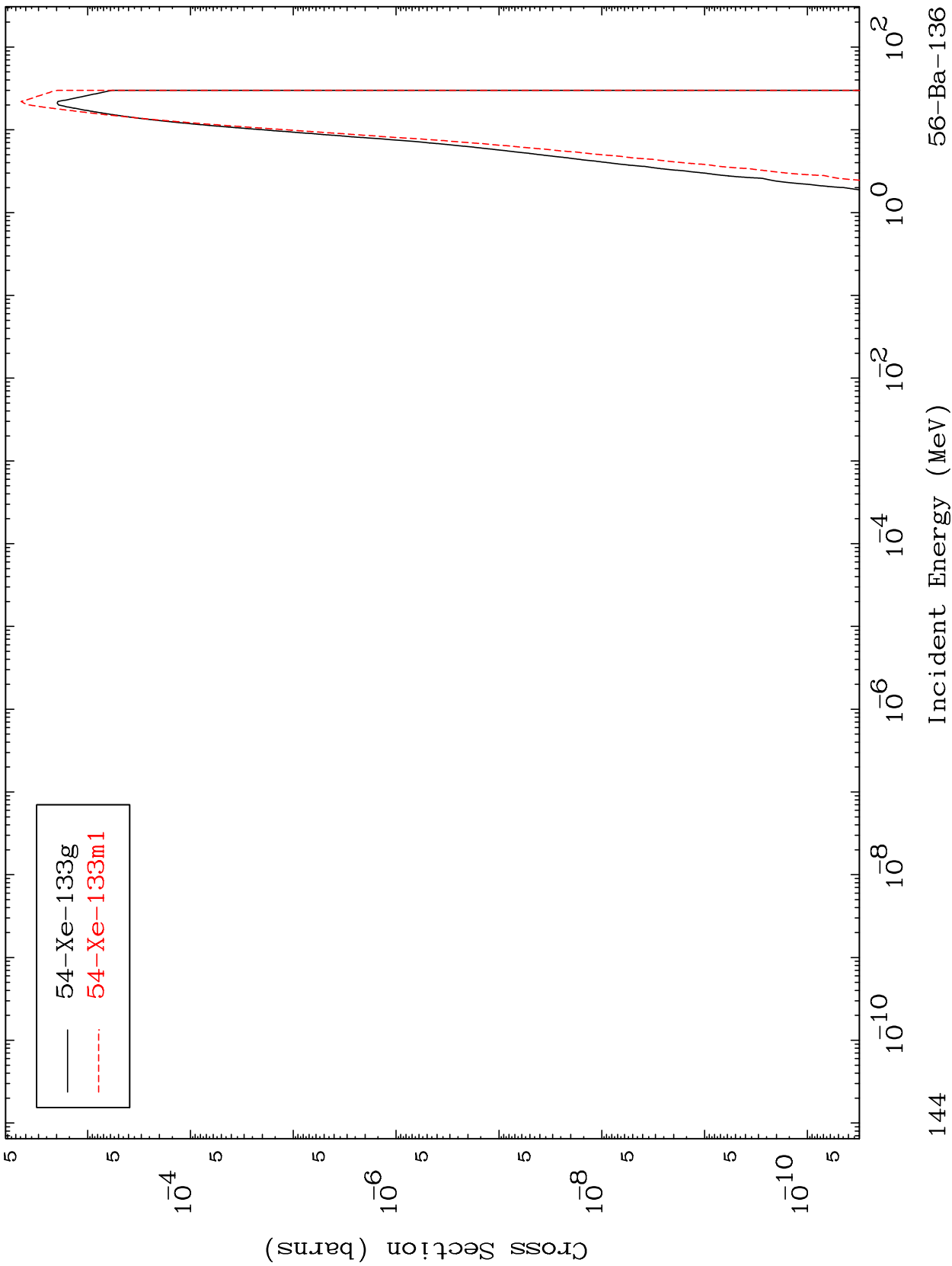
Radionuclide Production Cross Section



MAT 5643

56-Ba-136

(n, α)
Radionuclide Production Cross Section

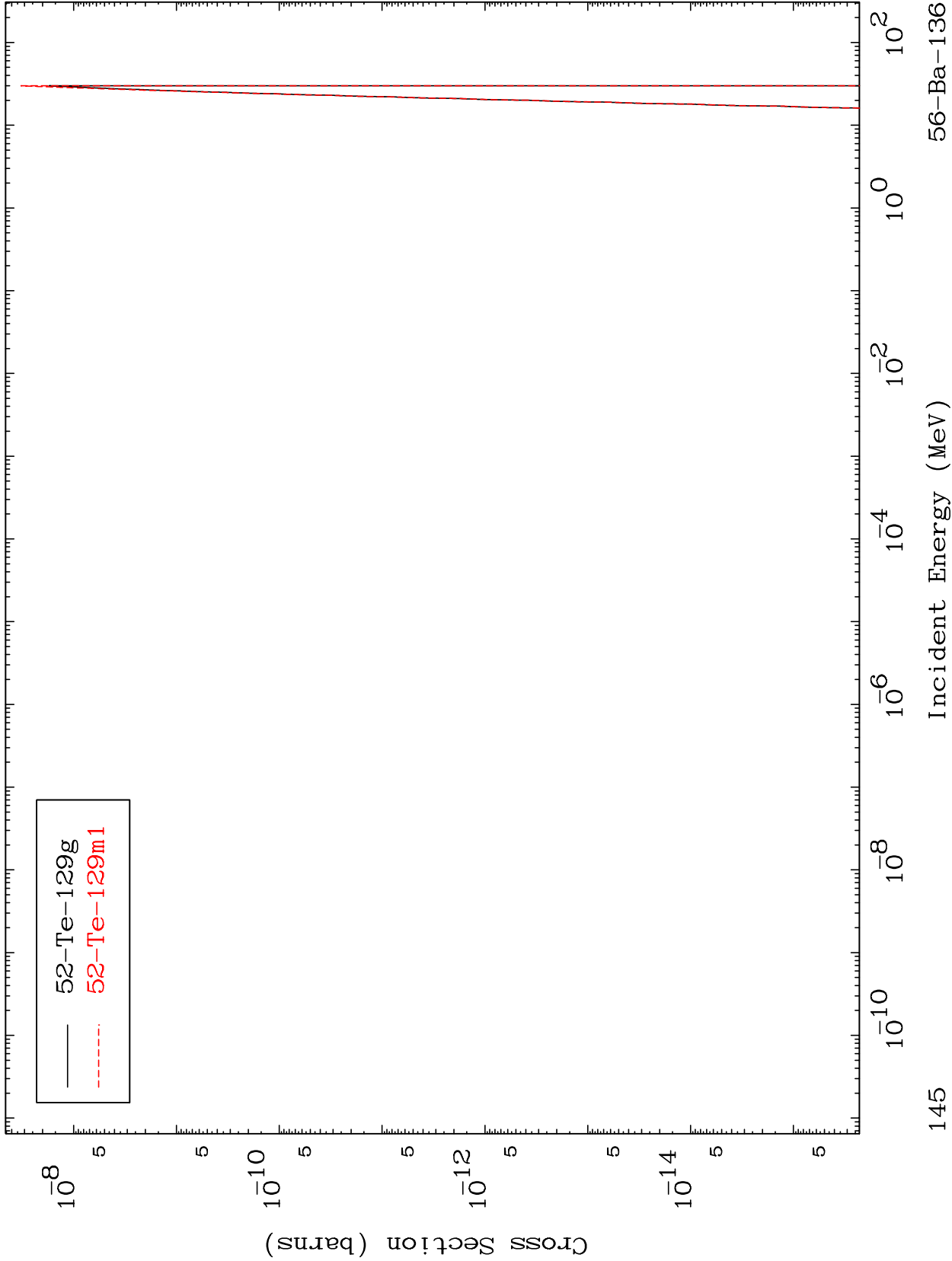


MAT 5643

(n,2α)

56-Ba-136

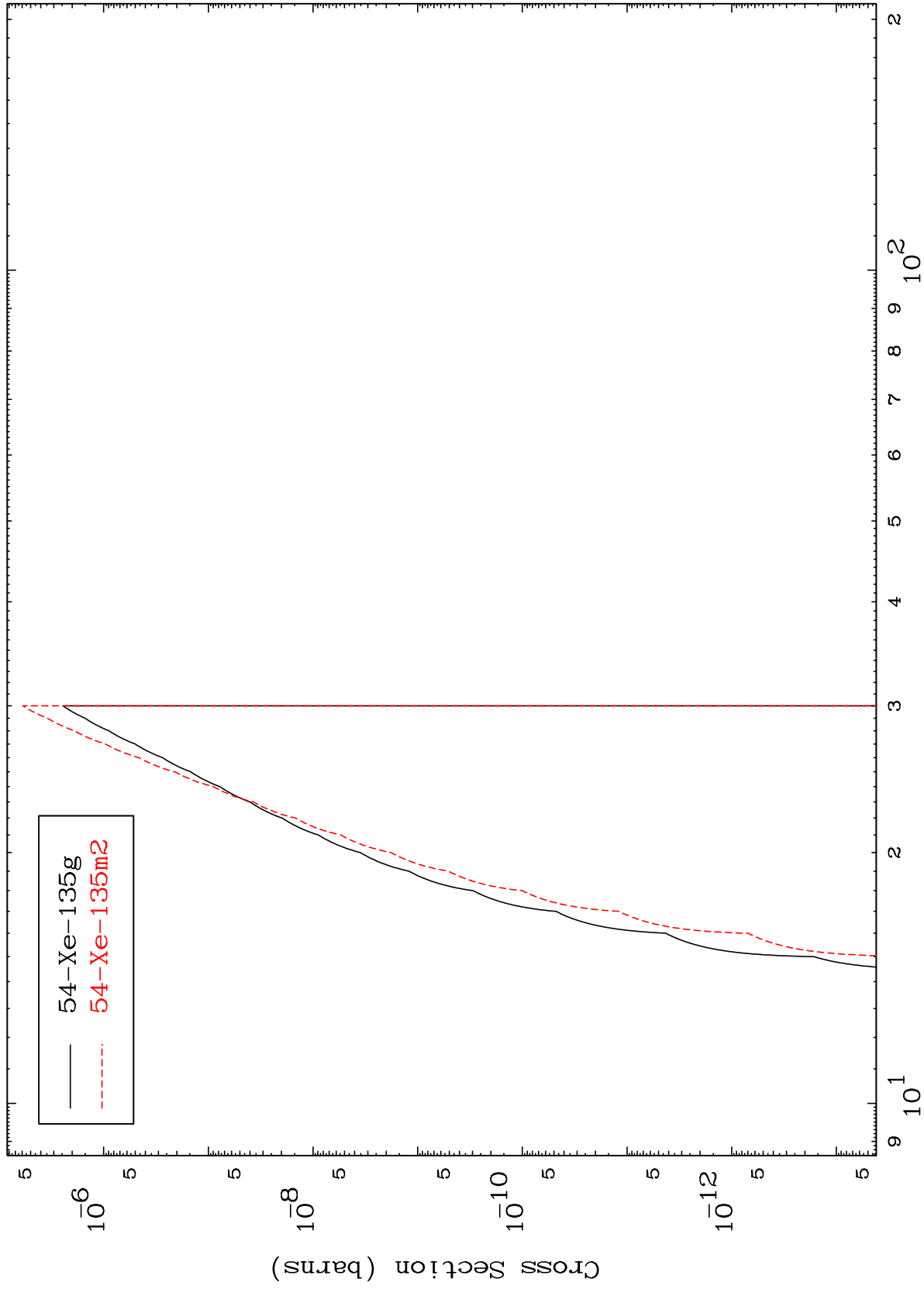
Radionuclide Production Cross Section



MAT 5643

56-Ba-136

(n,2p)
Radionuclide Production Cross Section



146

Incident Energy (MeV)

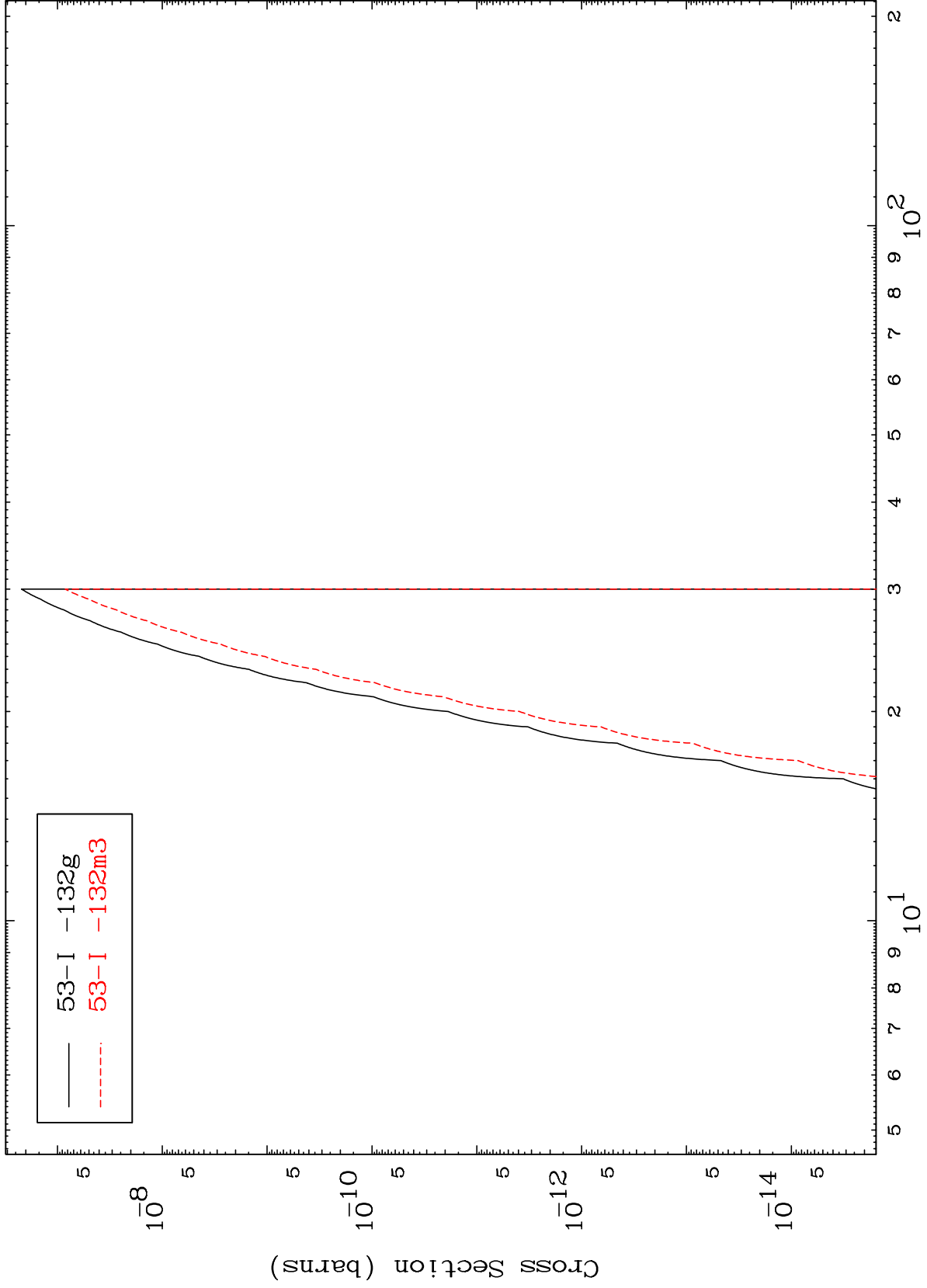
56-Ba-136

MAT 5643

(n,p) α

56-Ba-136

Radionuclide Production Cross Section



147

Incident Energy (MeV)

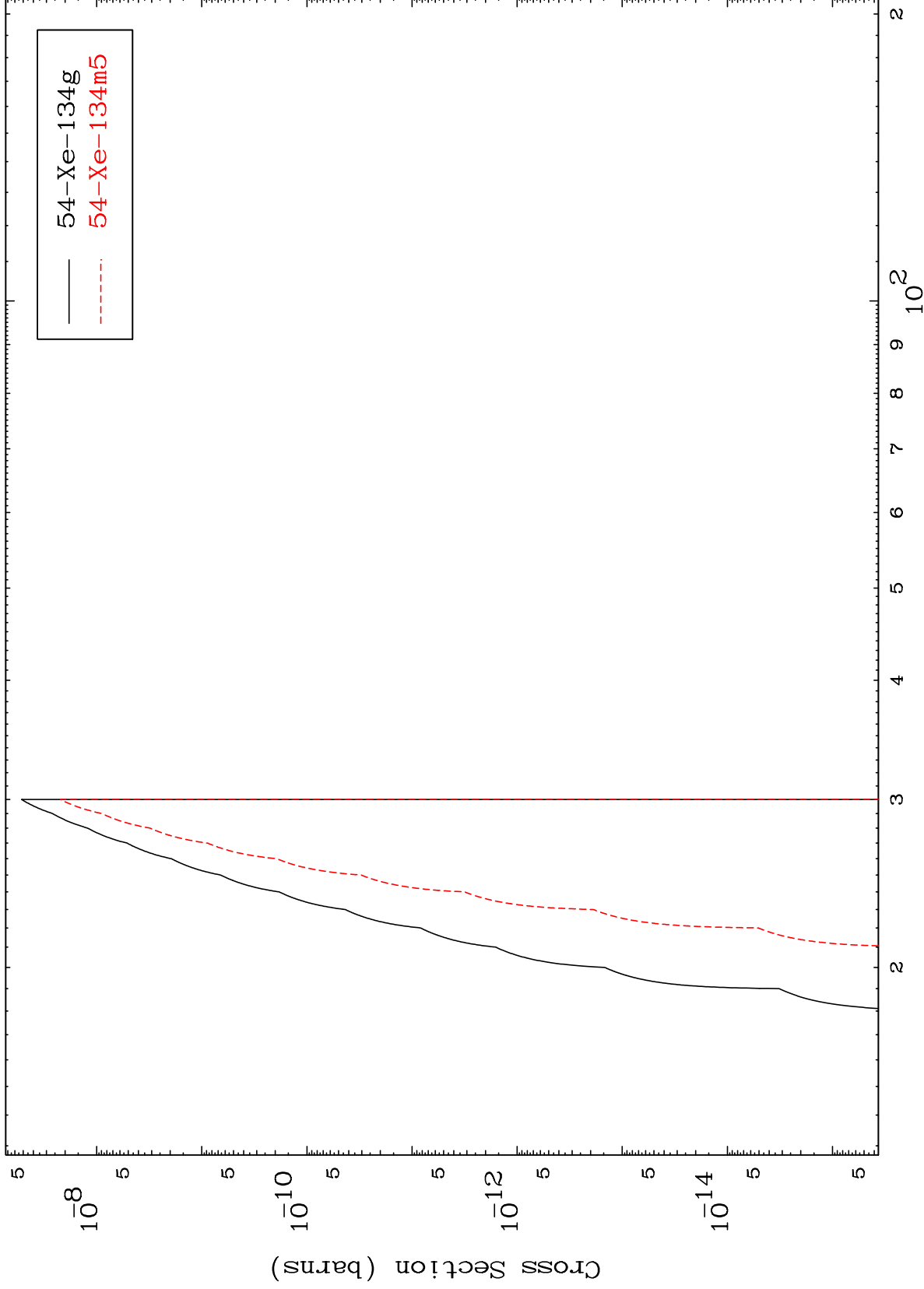
56-Ba-136

MAT 5643

(n,p) d

56-Ba-136

Radionuclide Production Cross Section



148

Incident Energy (MeV)

56-Ba-136

