

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

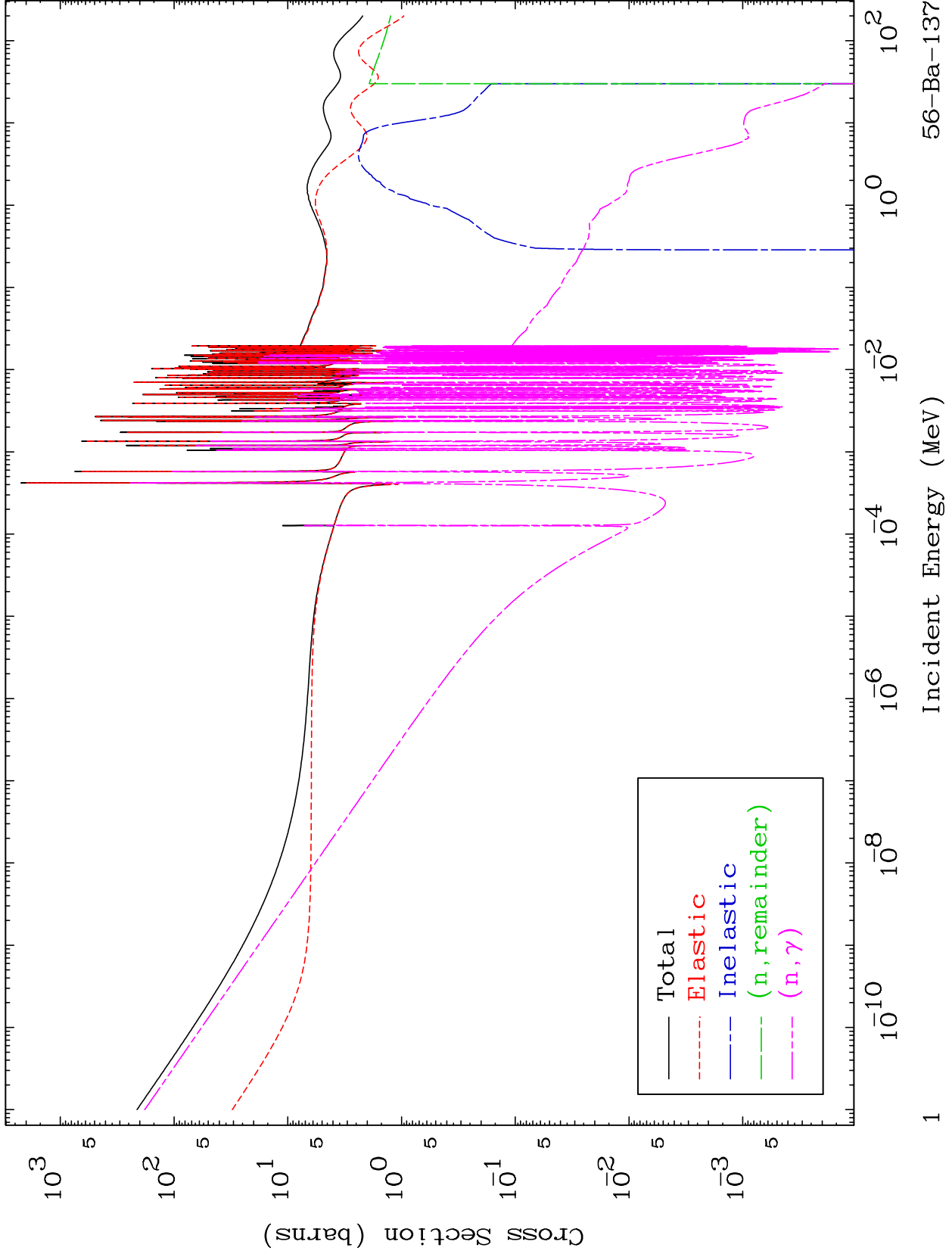
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Press Mouse Button to Start

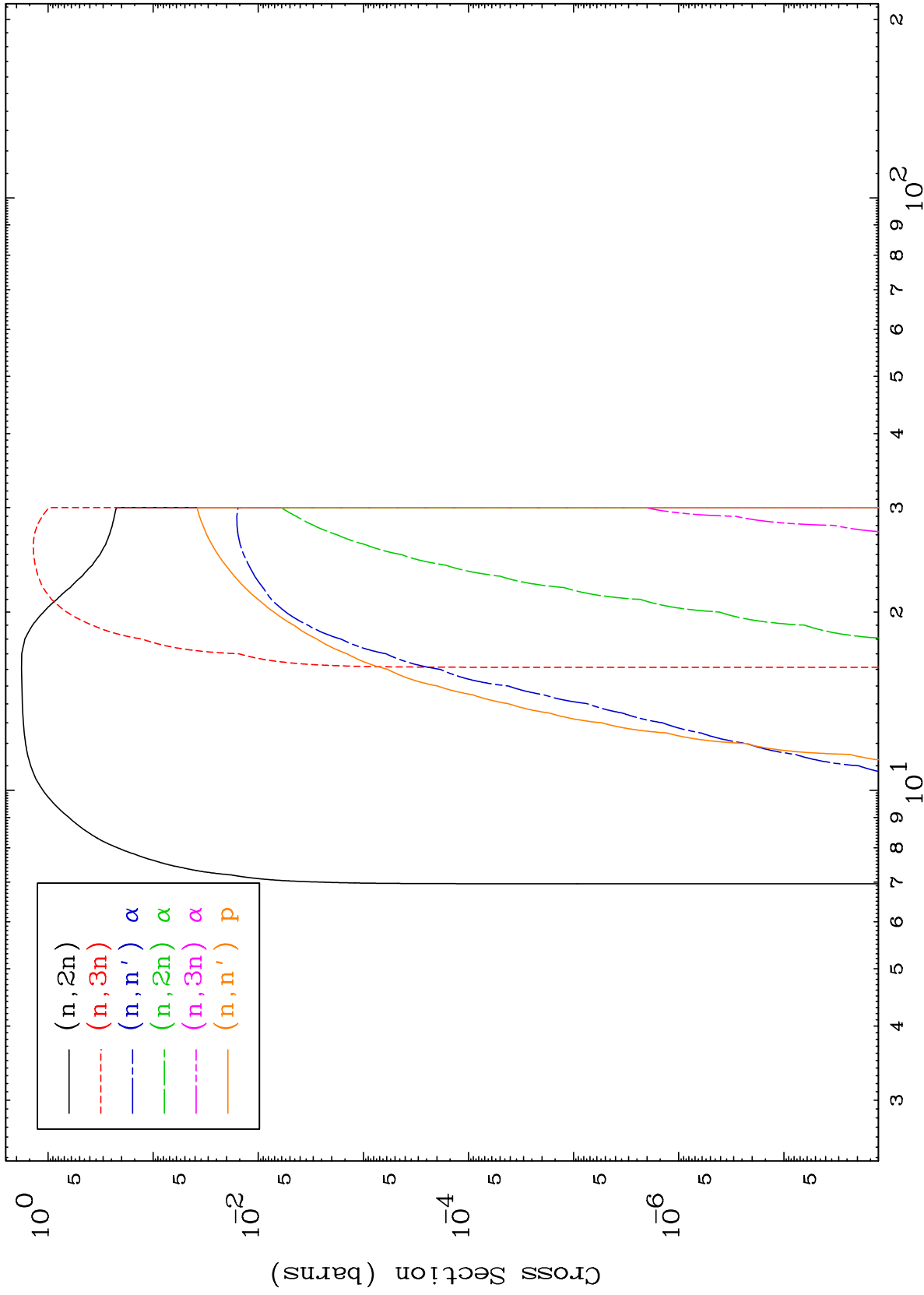
MAT 5646

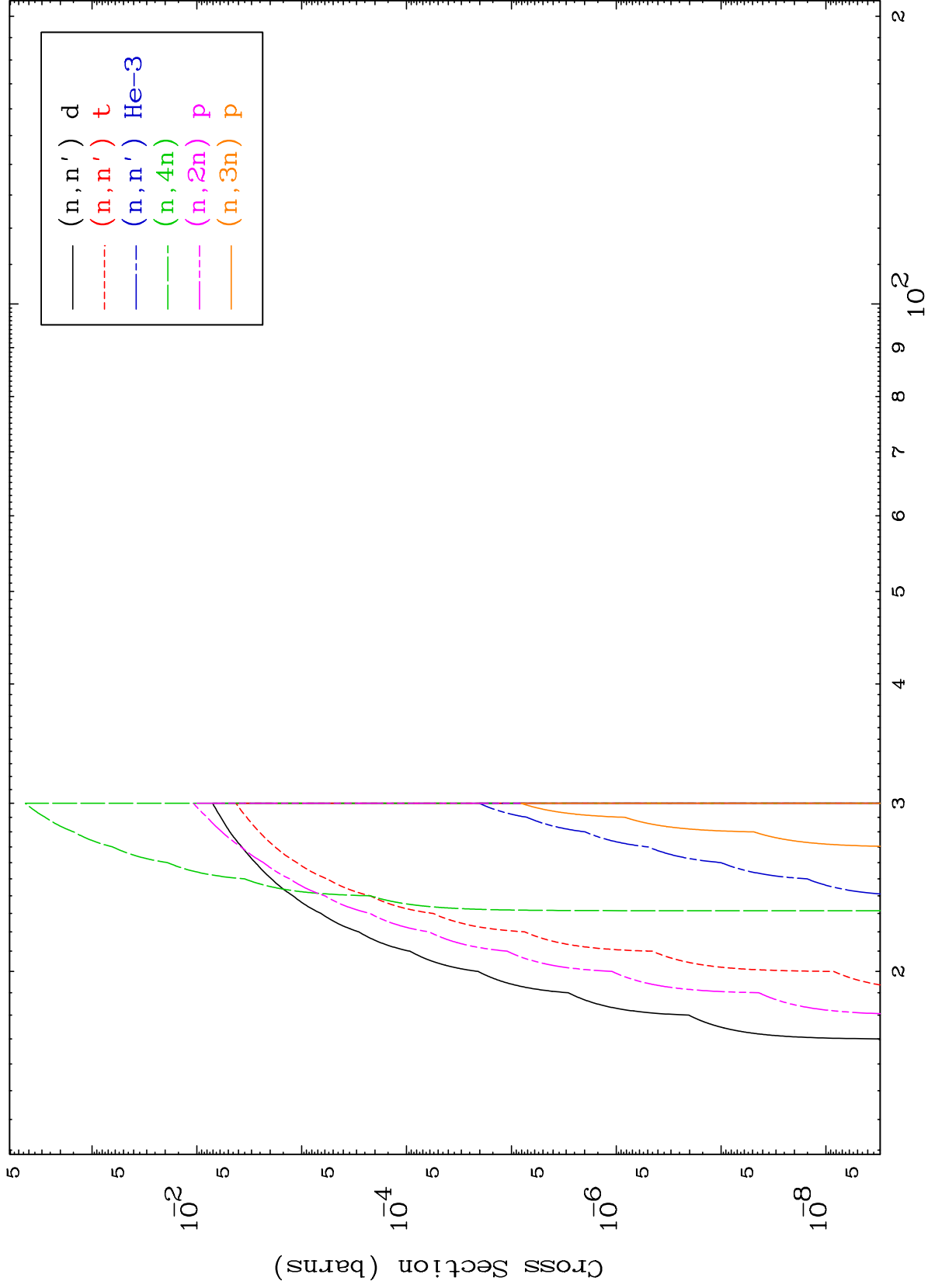
Major
293 Kelvin Cross Sections

56-Ba-137



Neutron Production
293 Kelvin Cross Sections

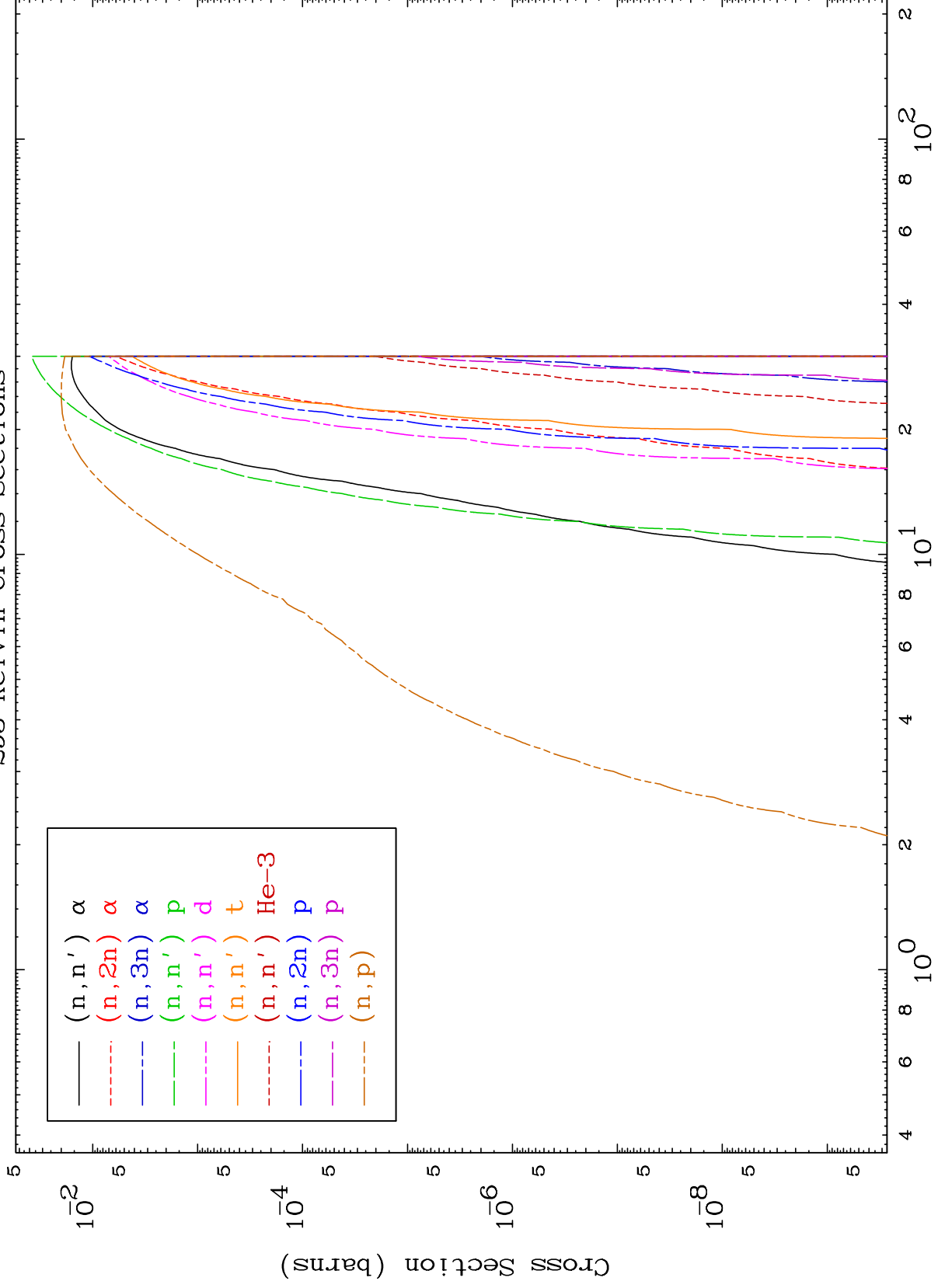




MAT 5646

Charged Particle
293 Kelvin Cross Sections

56-Ba-137



4

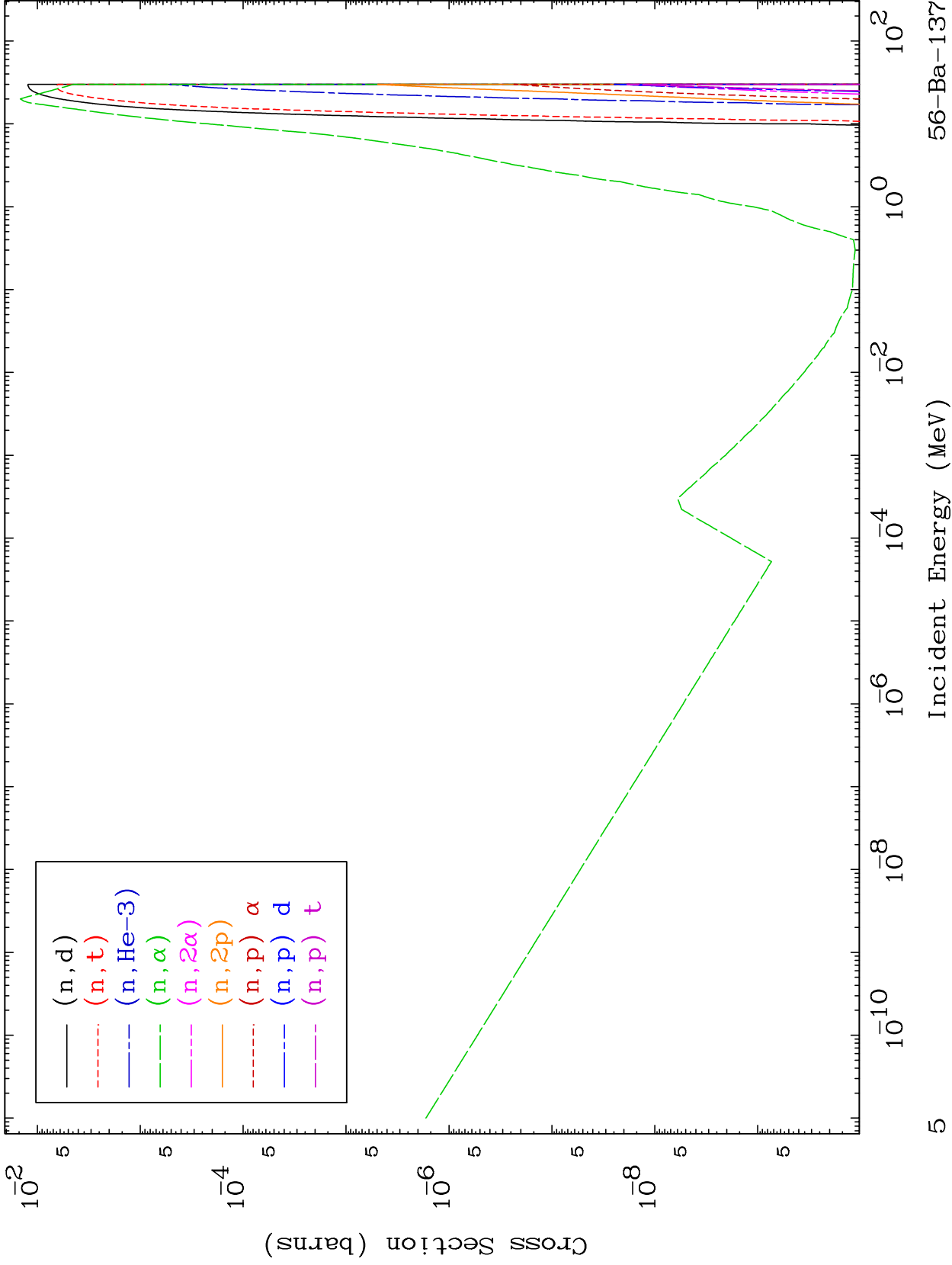
Incident Energy (MeV)

56-Ba-137

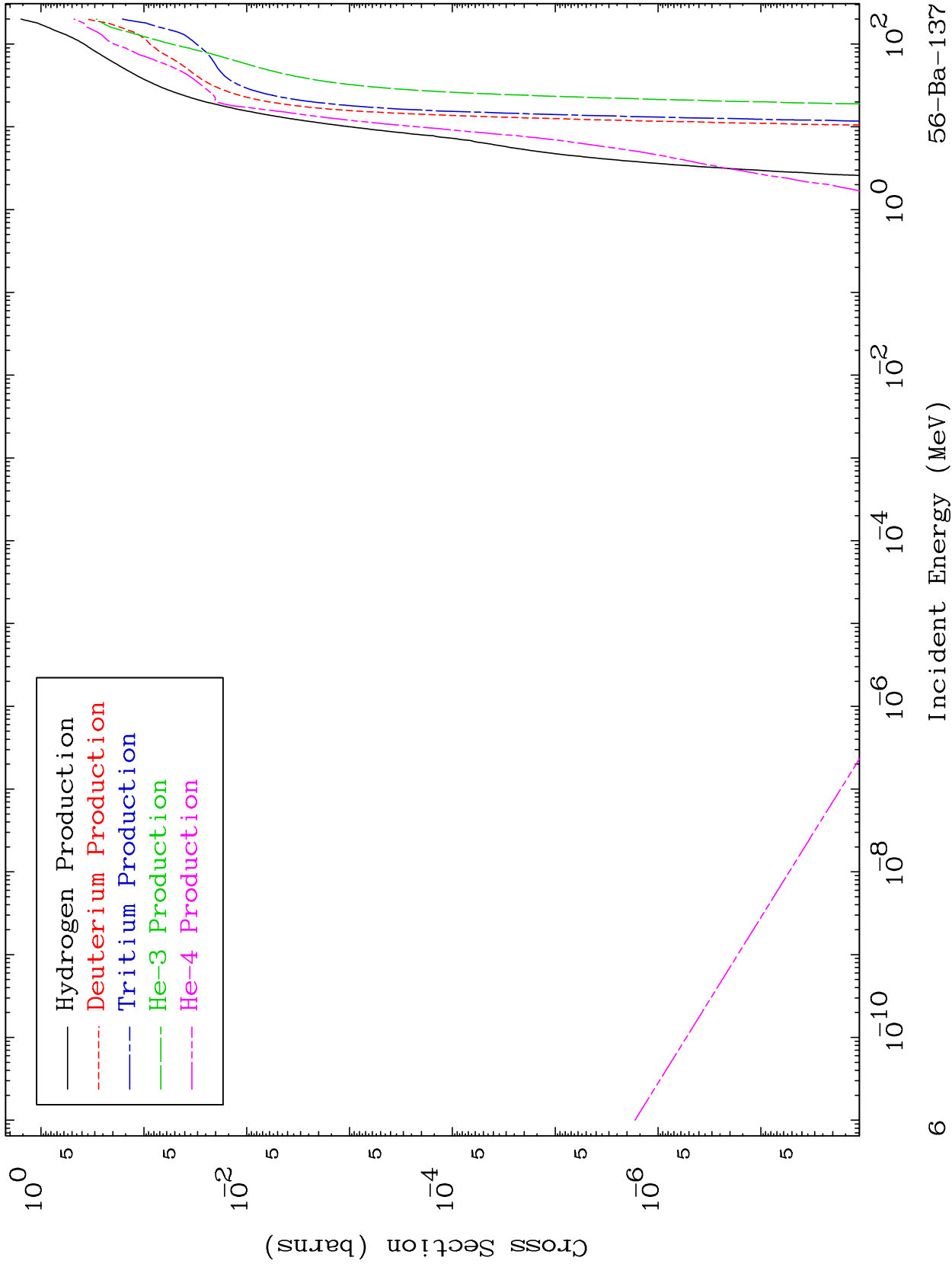
MAT 5646

Charged Particle
293 Kelvin Cross Sections

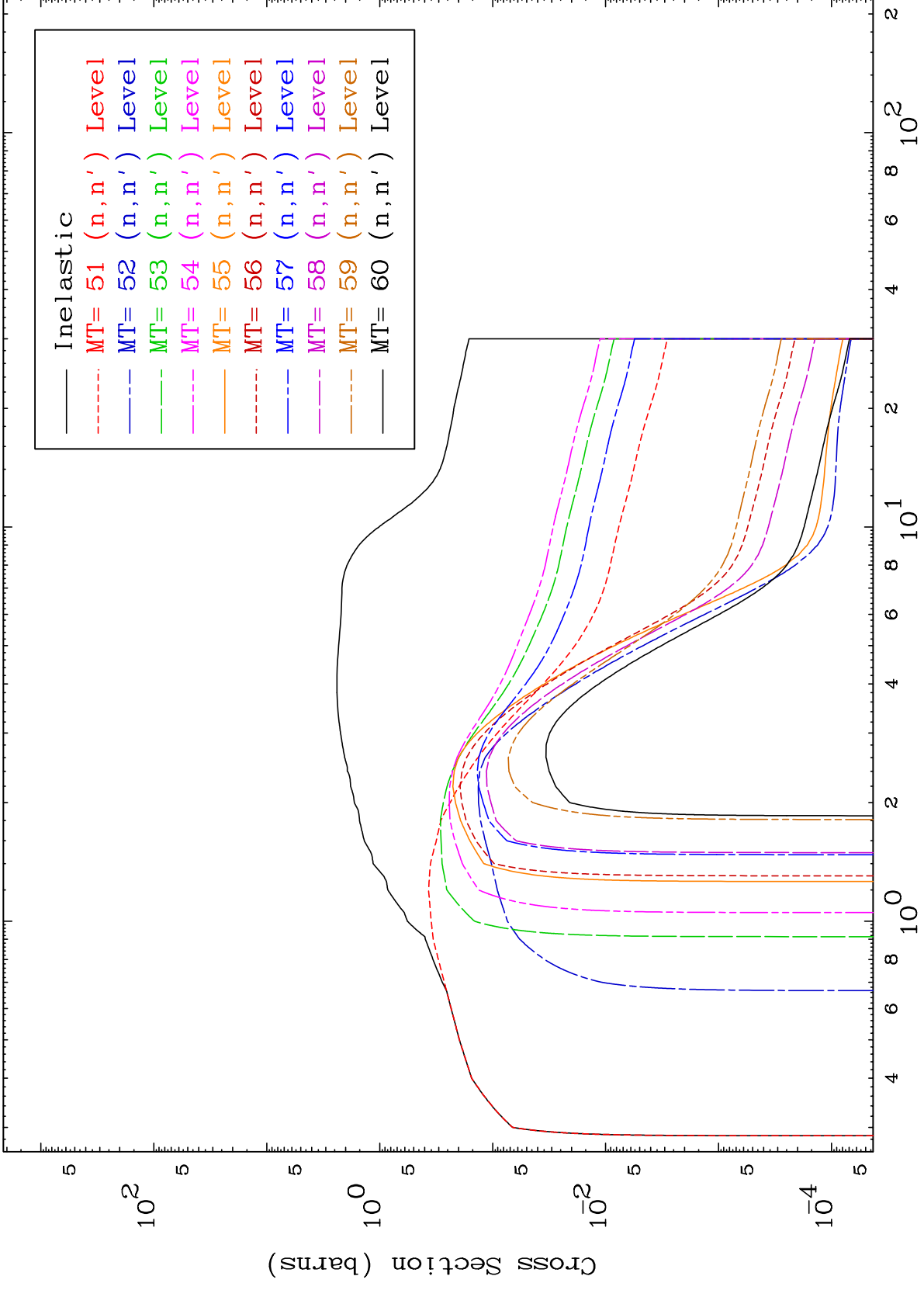
56-Ba-137



5



293 Kelvin Cross Sections

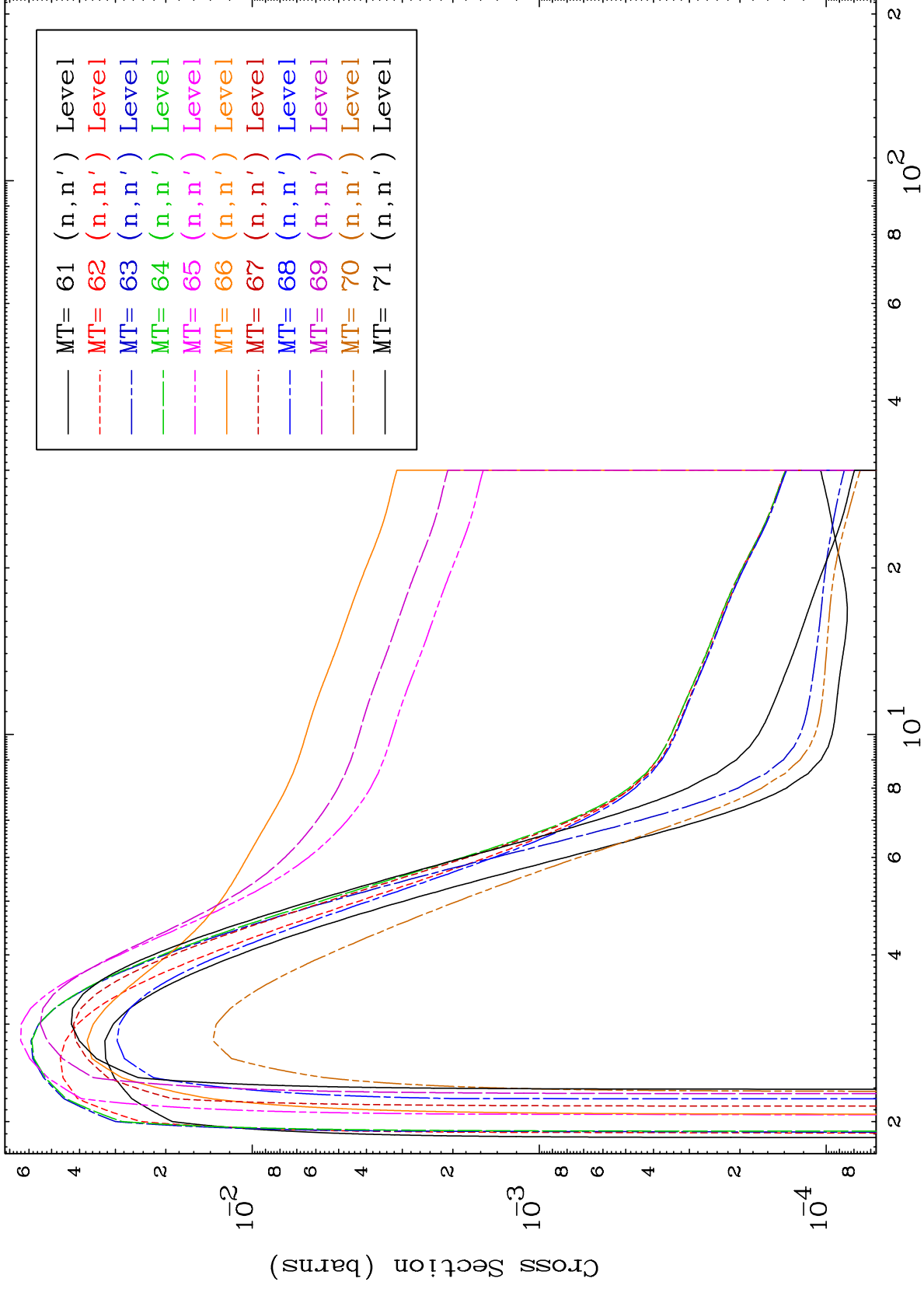


MAT 5646

(n,n') Level

56-Ba-137

293 Kelvin Cross Sections

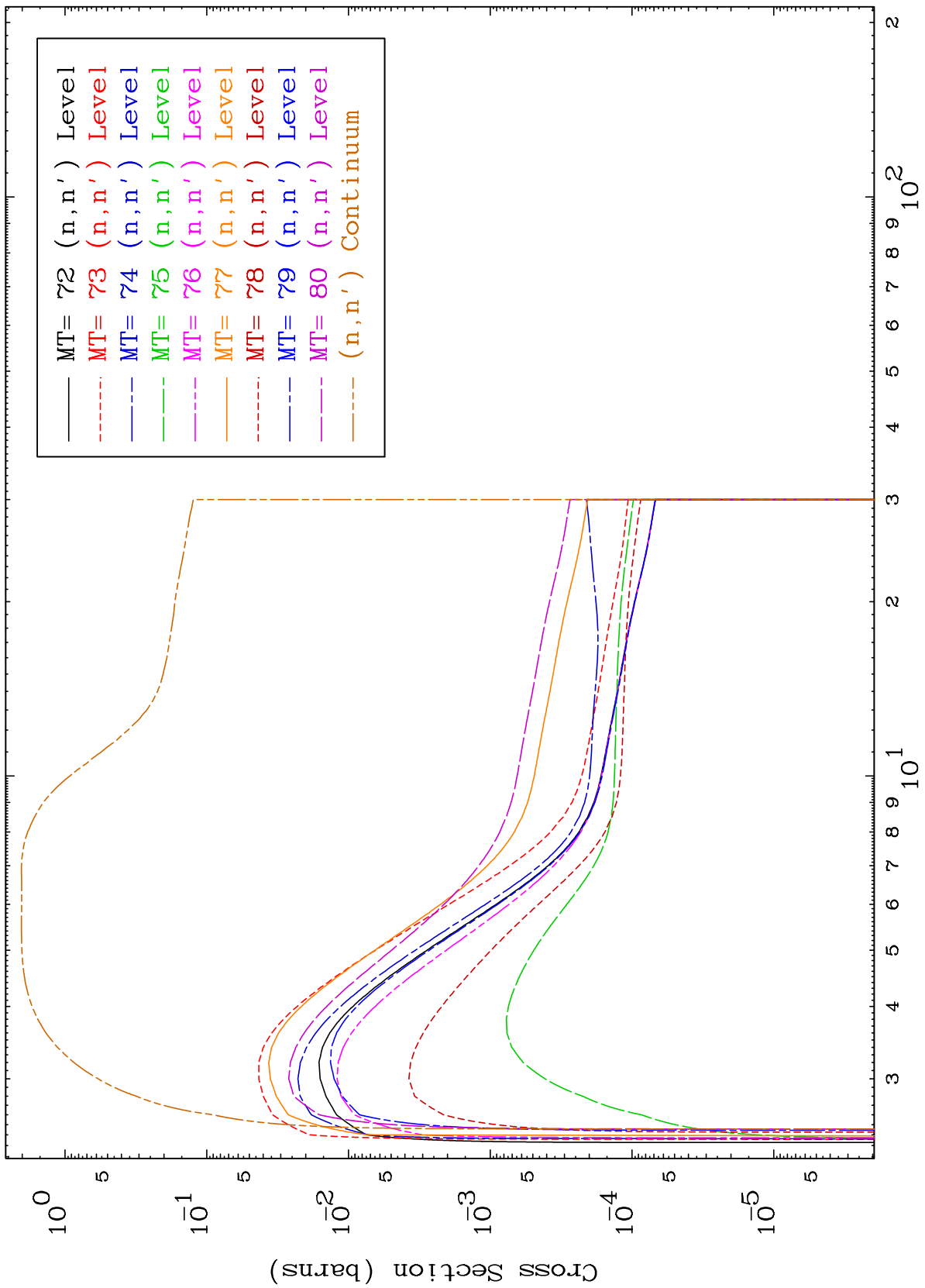


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Incident Energy (MeV)

56-Ba-137

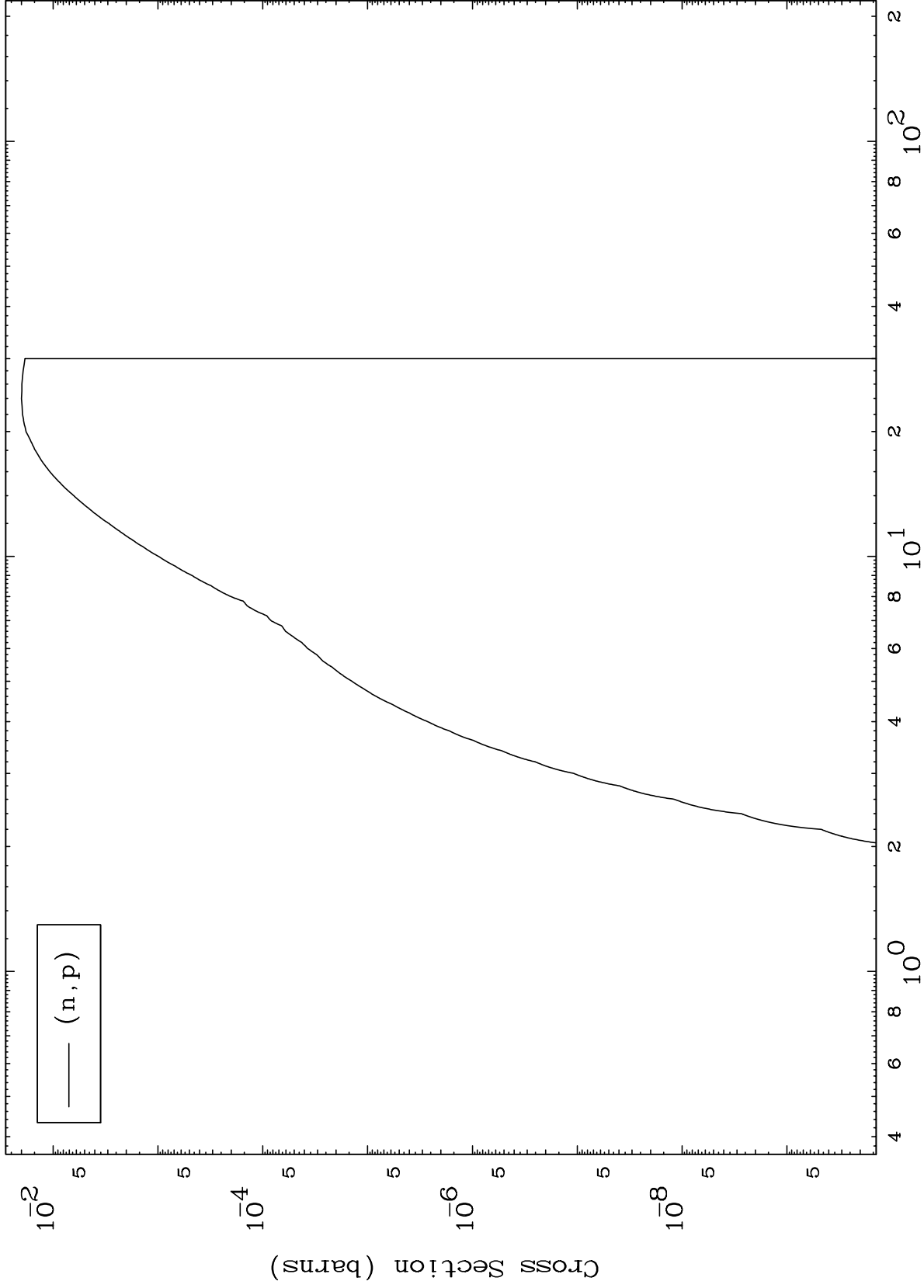
293 Kelvin Cross Sections



MAT 5646

(n,p) Levels
293 Kelvin Cross Sections

56-Ba-137



10

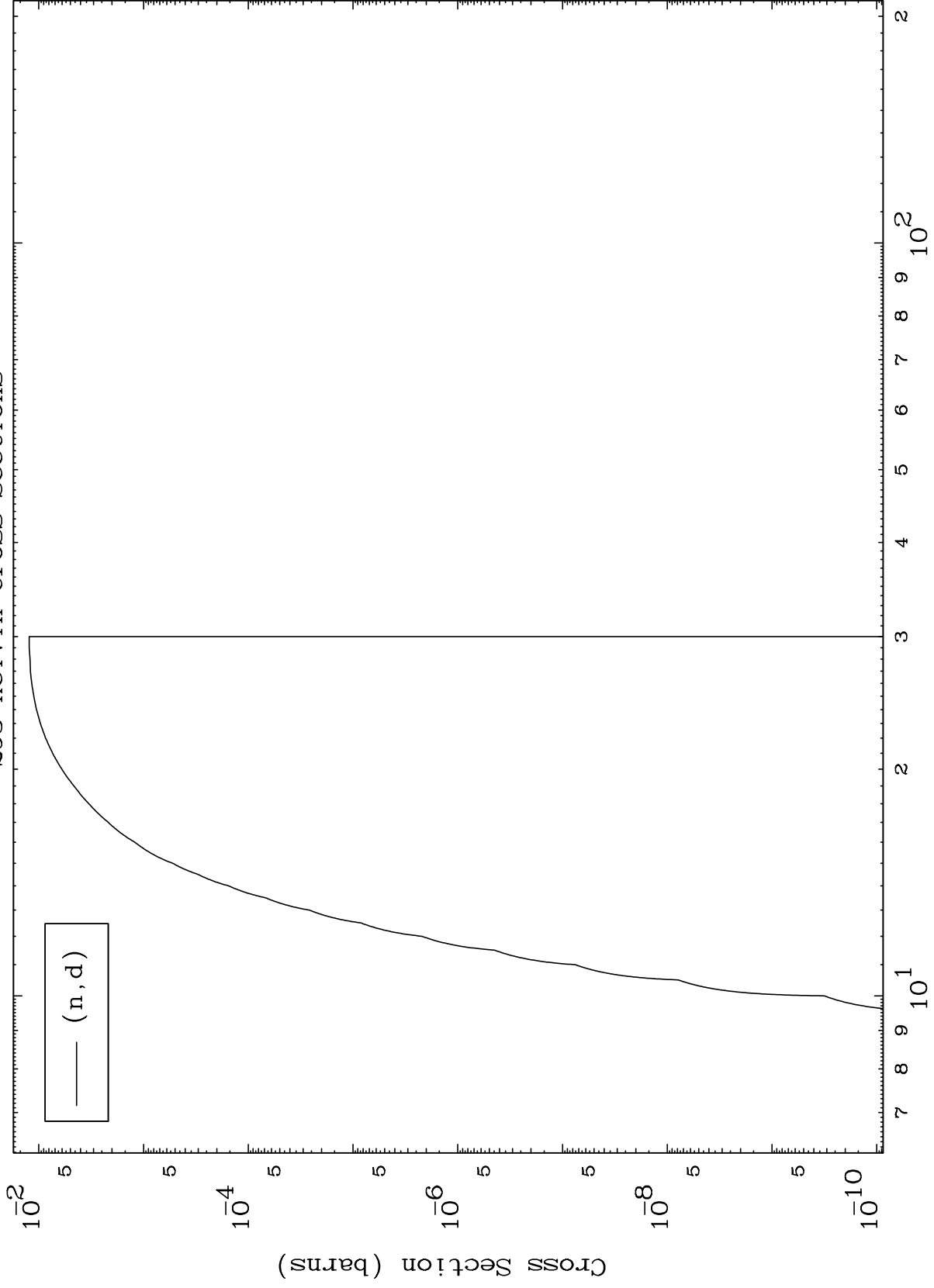
Incident Energy (MeV)

56-Ba-137

MAT 5646

(n,d) Levels
293 Kelvin Cross Sections

56-Ba-137



11

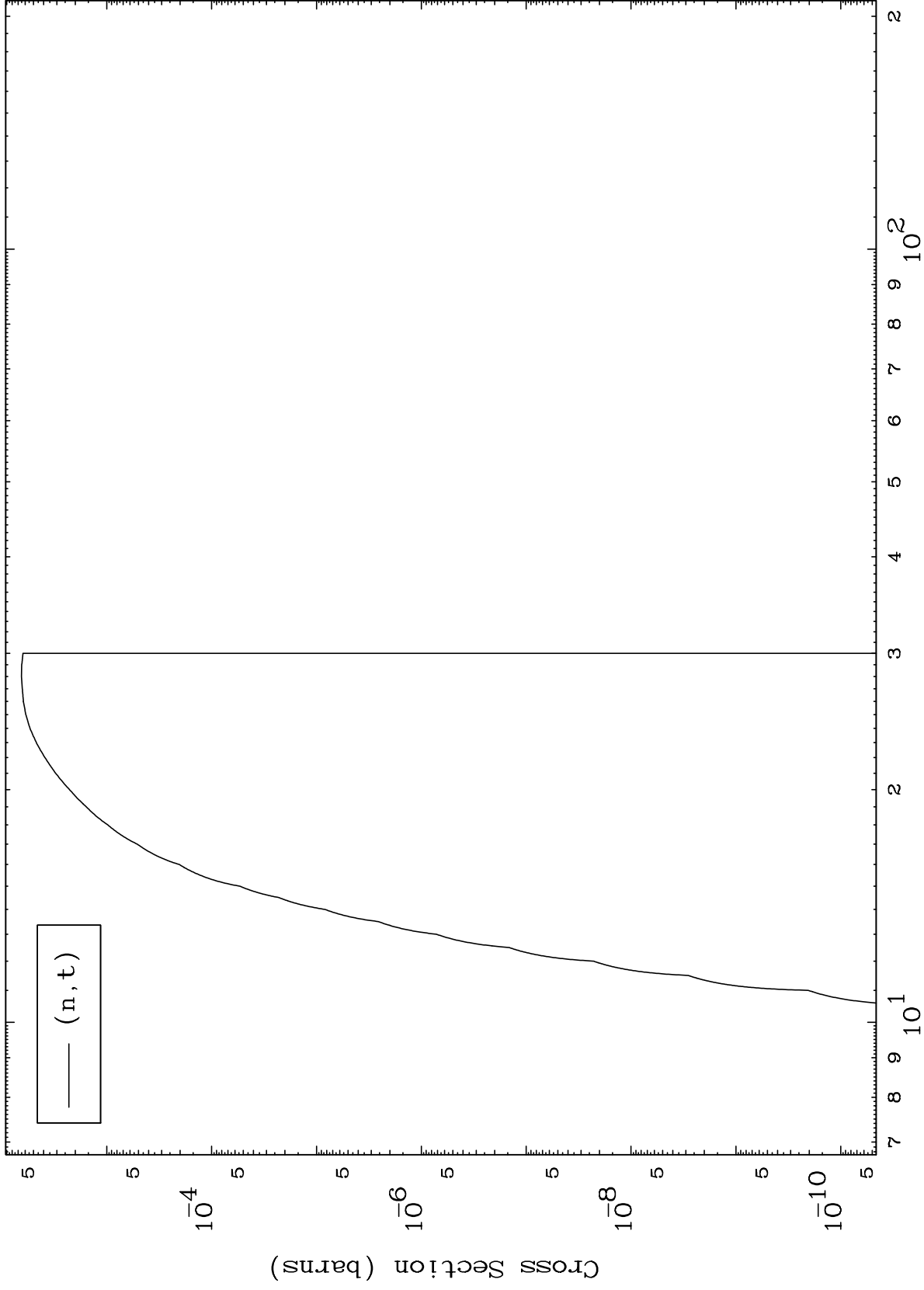
Incident Energy (MeV)

56-Ba-137

MAT 5646

(n,t) Levels
293 Kelvin Cross Sections

56-Ba-137



12

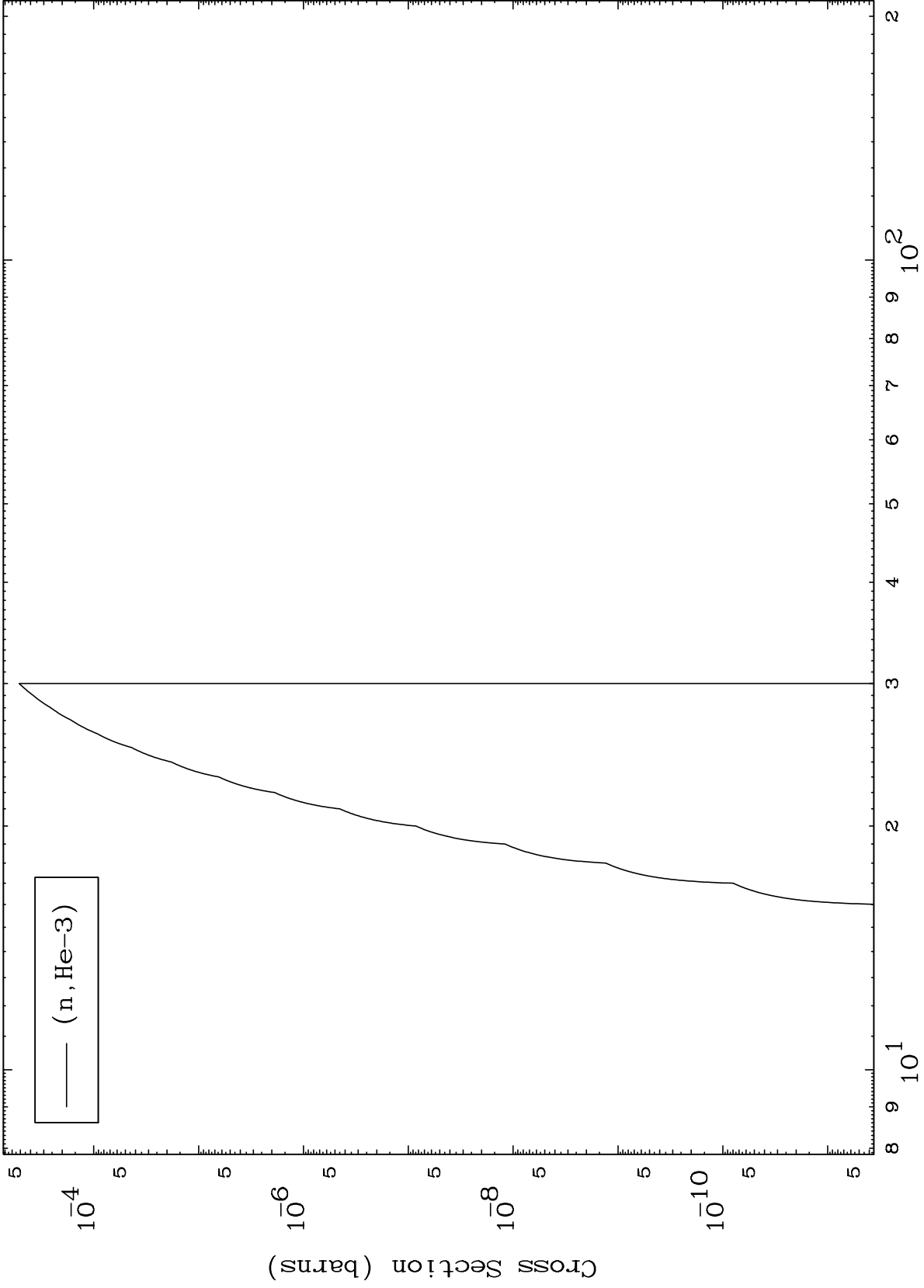
Incident Energy (MeV)

56-Ba-137

MAT 5646

(n,He3) Levels
293 Kelvin Cross Sections

56-Ba-137



13

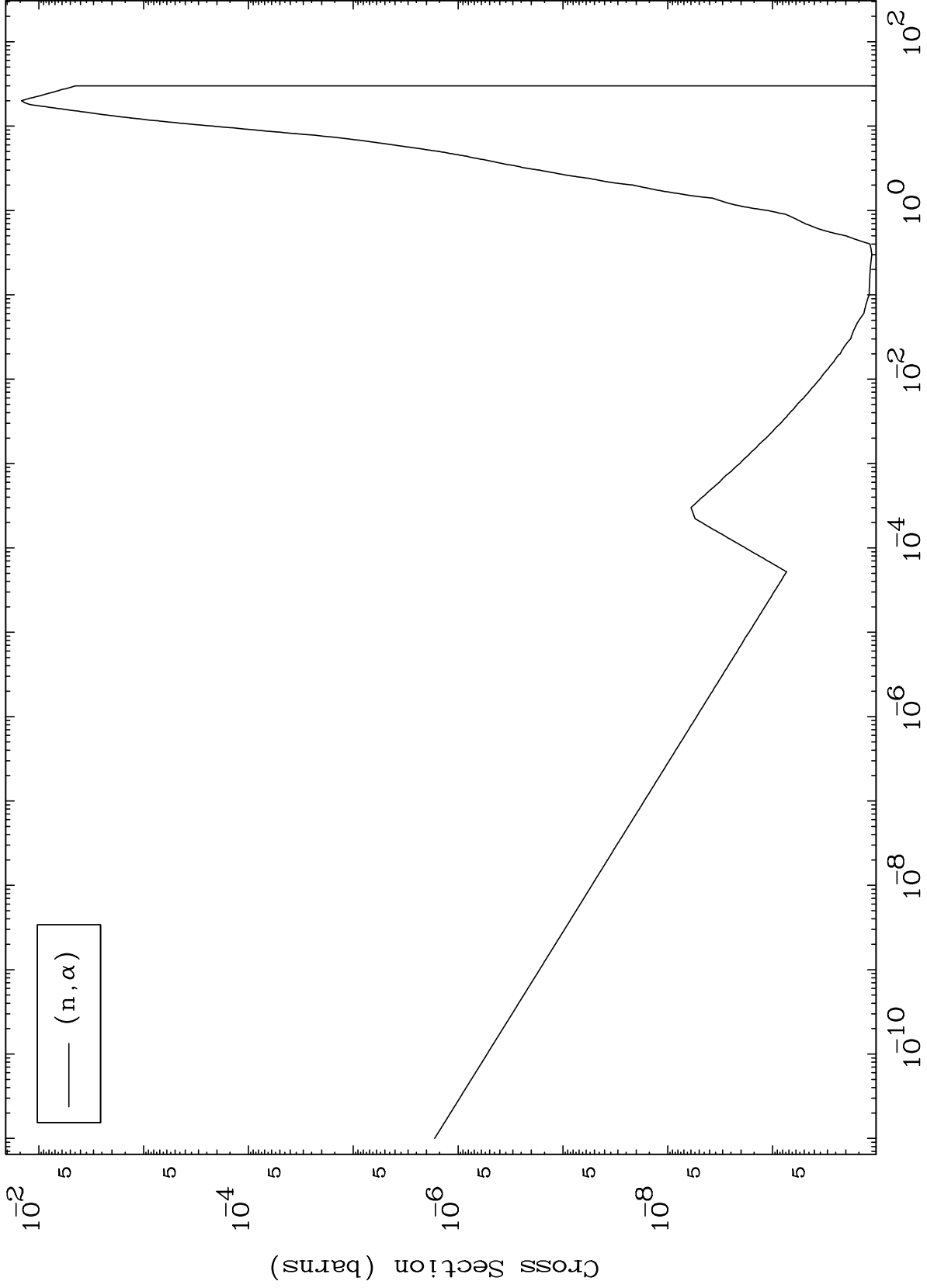
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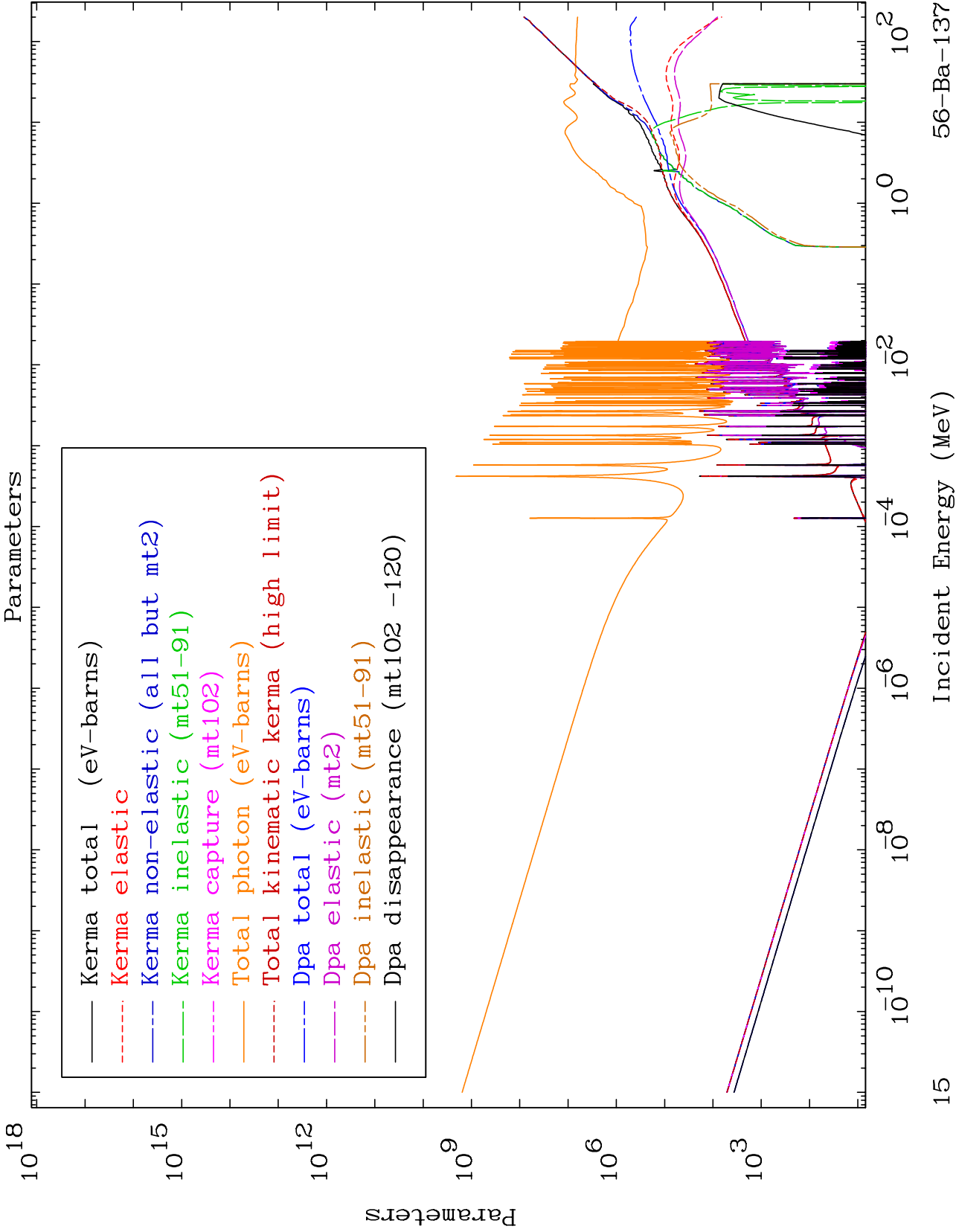
56-Ba-137

MAT 5646

(n, α) Levels
293 Kelvin Cross Sections

56-Ba-137

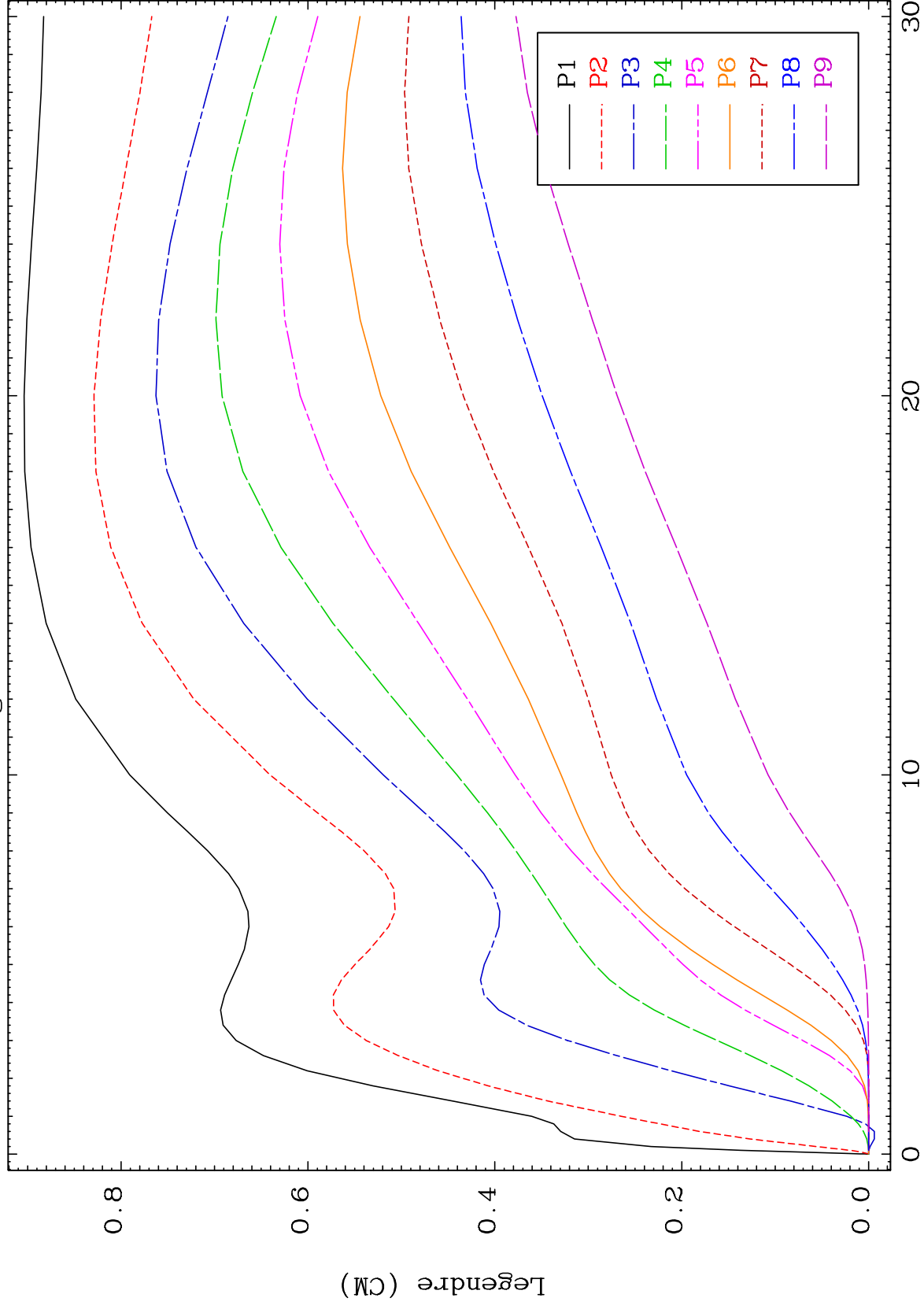




MAT 5646

Elastic Legendre Coefficients

56-Ba-137



16

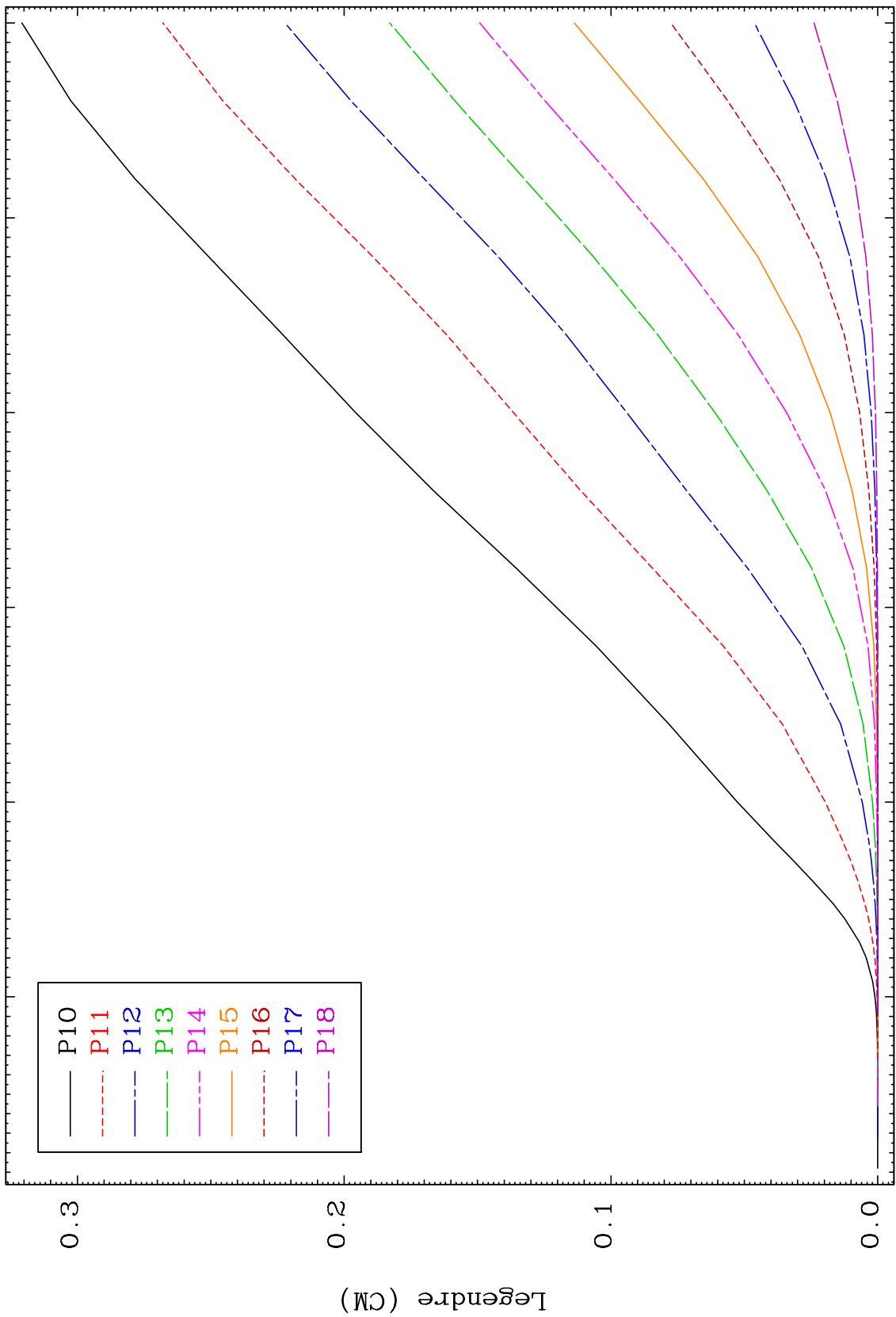
Incident Energy (MeV)

56-Ba-137

MAT 5646

Elastic Legendre Coefficients

56-Ba-137



17

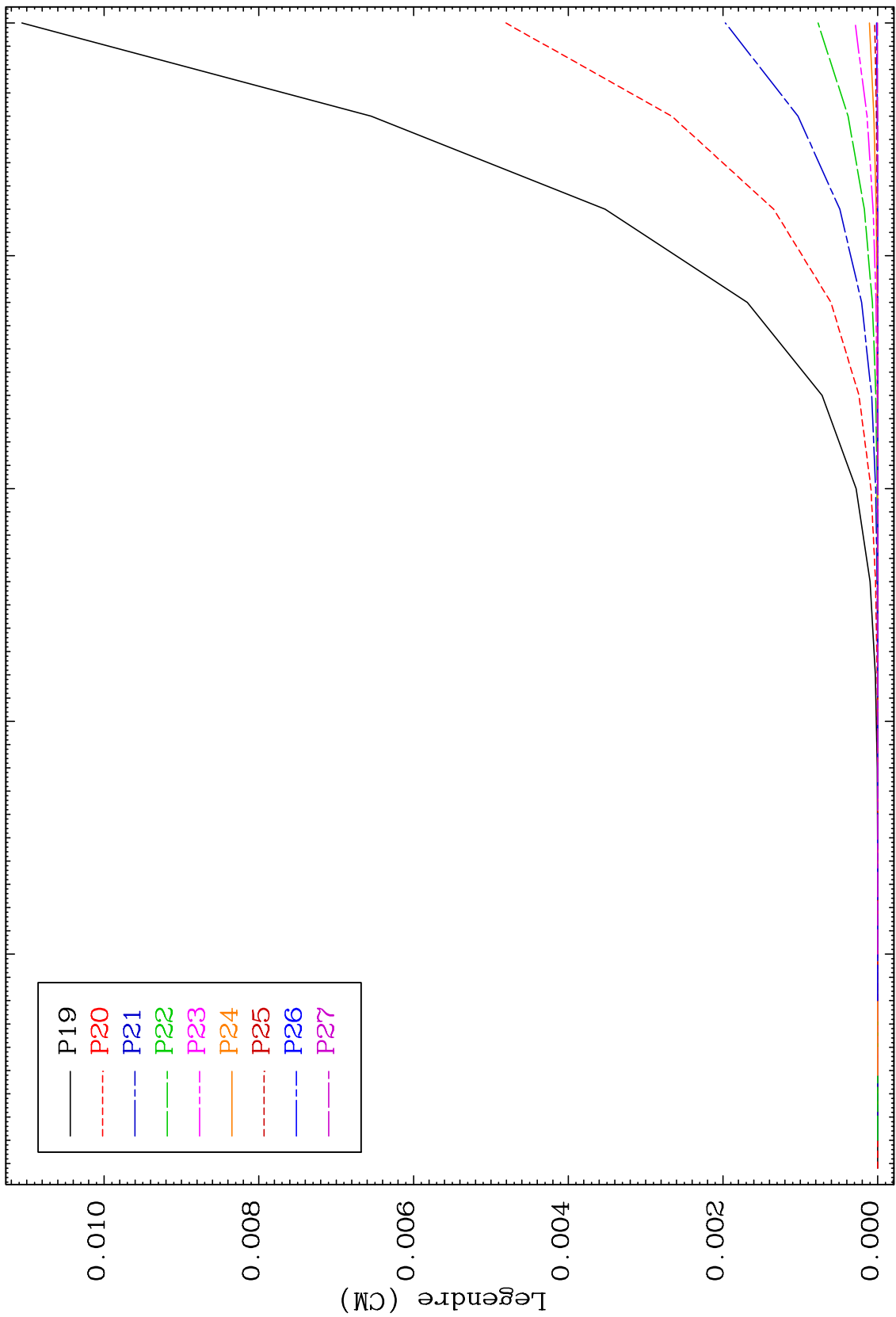
56-Ba-137

Incident Energy (MeV)

MAT 5646

Elastic Legendre Coefficients

56-Ba-137



18

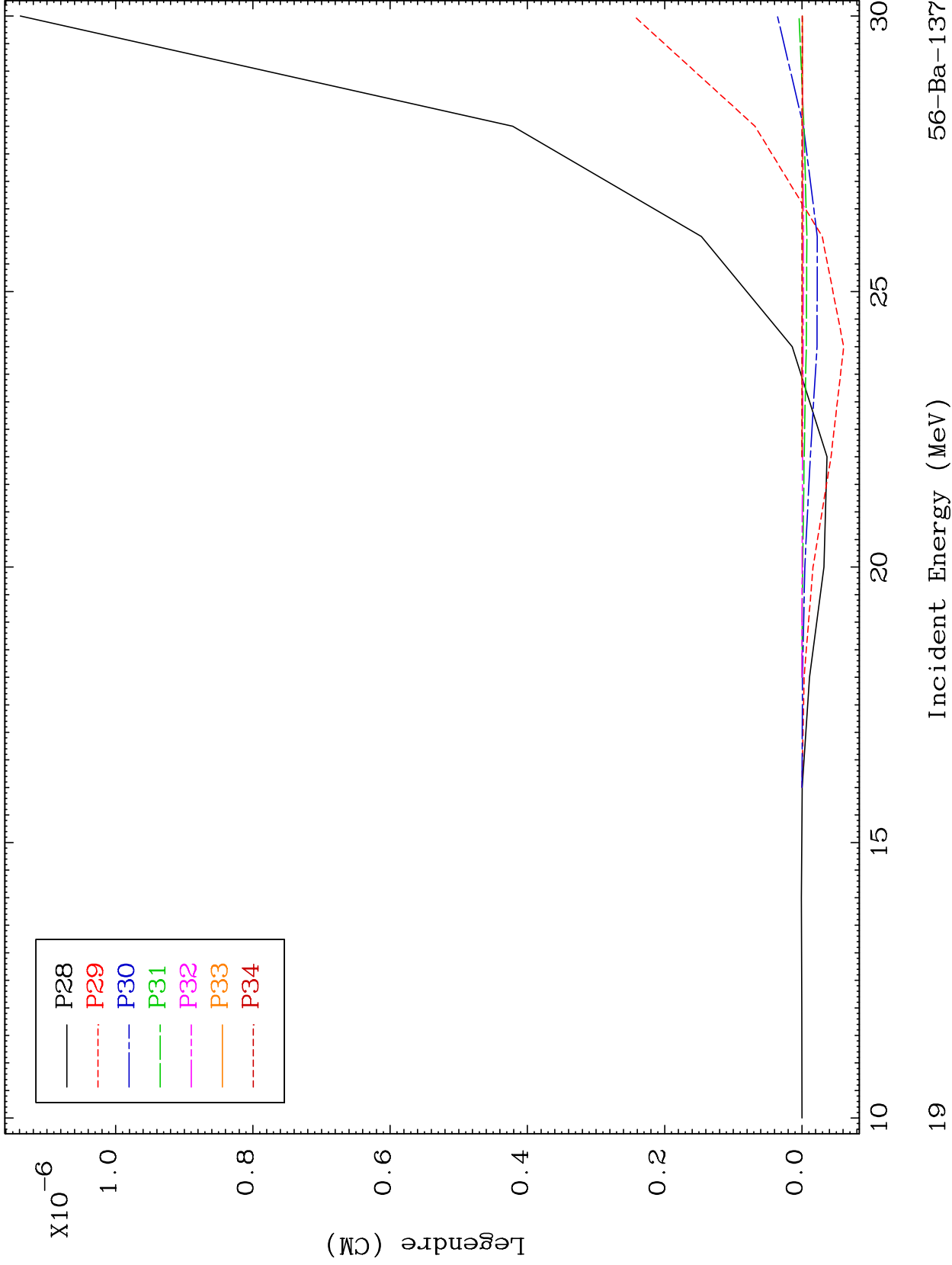
Incident Energy (MeV)

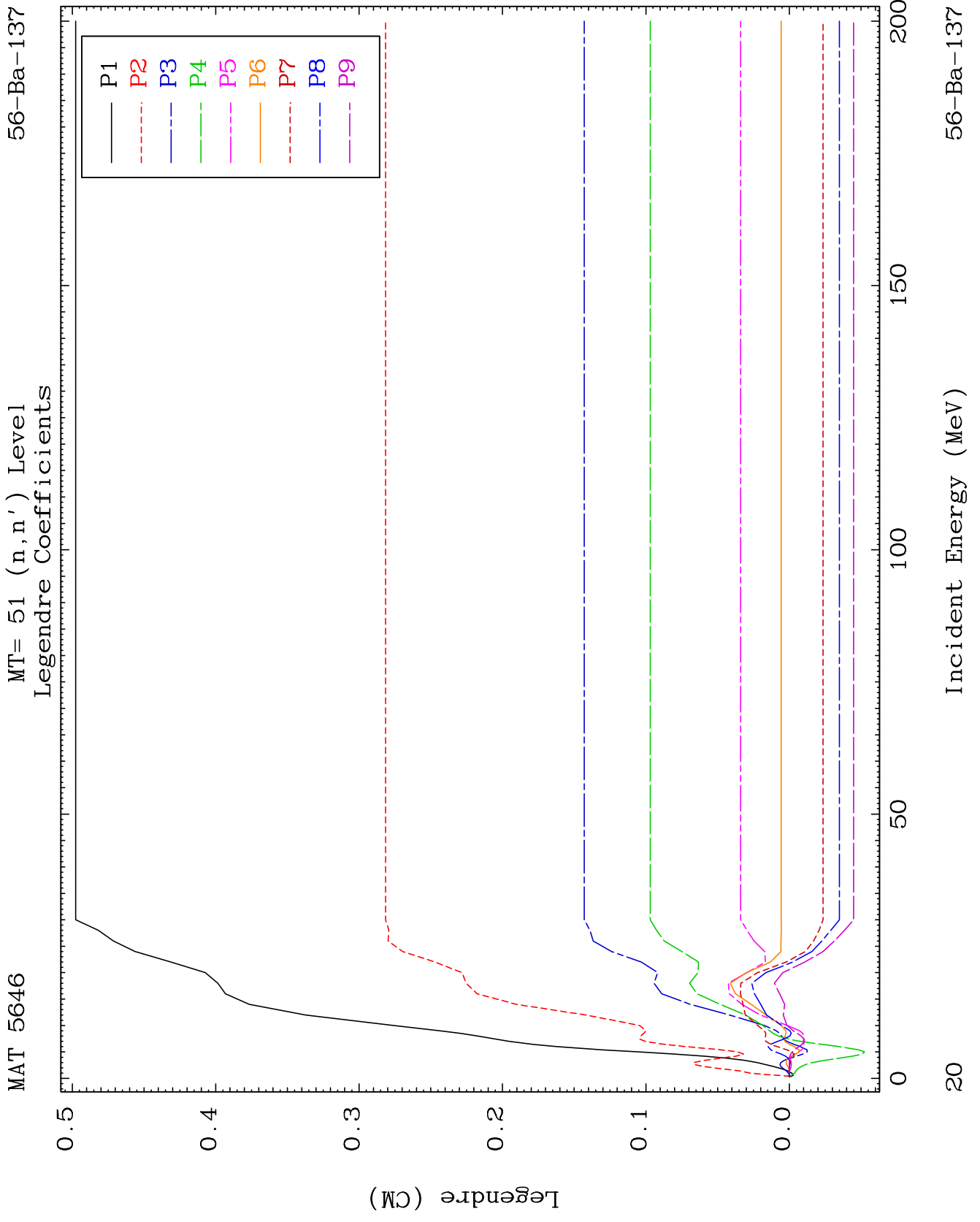
56-Ba-137

MAT 5646

Elastic Legendre Coefficients

56-Ba-137

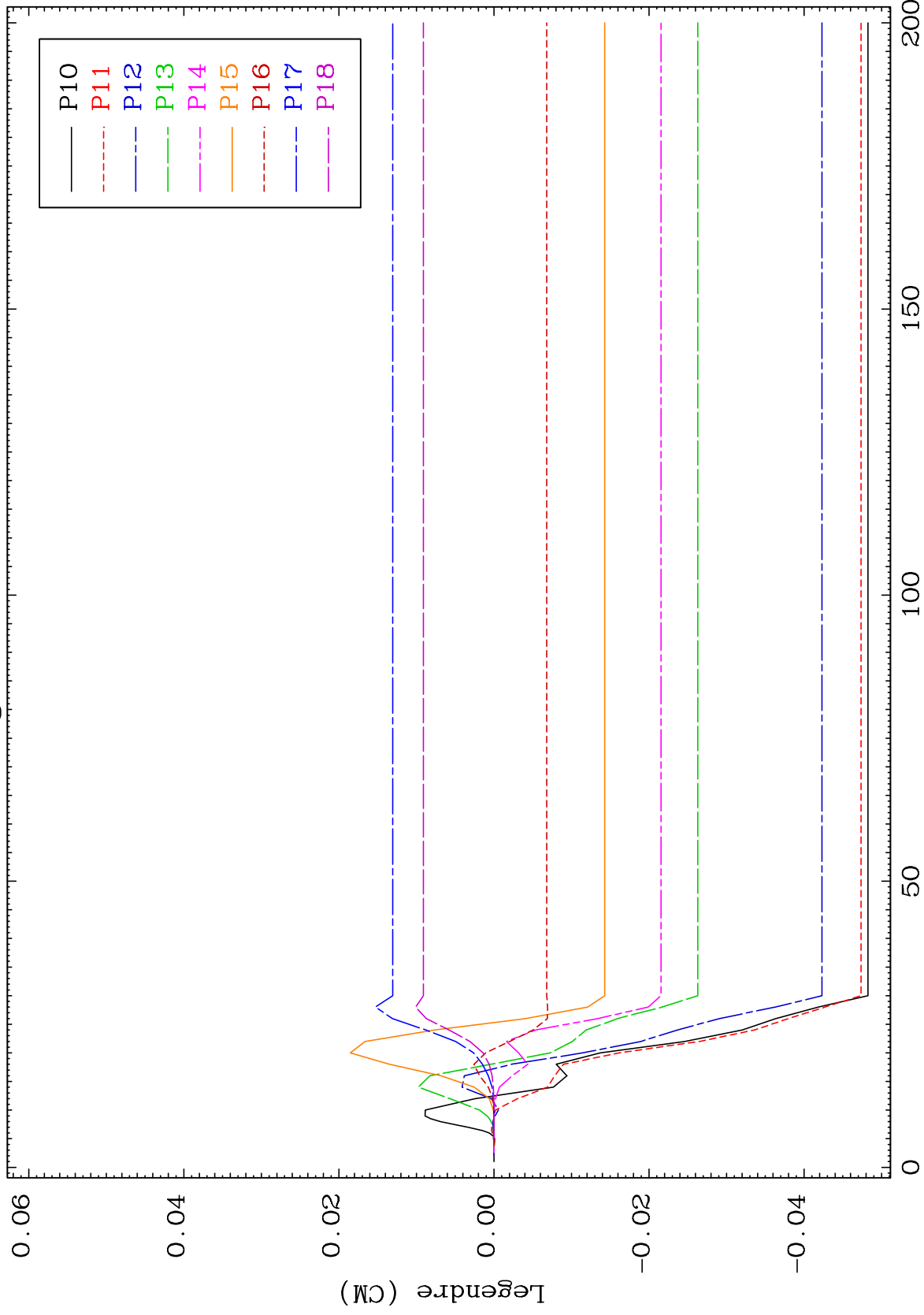




MAT 5646

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

56-Ba-137



21

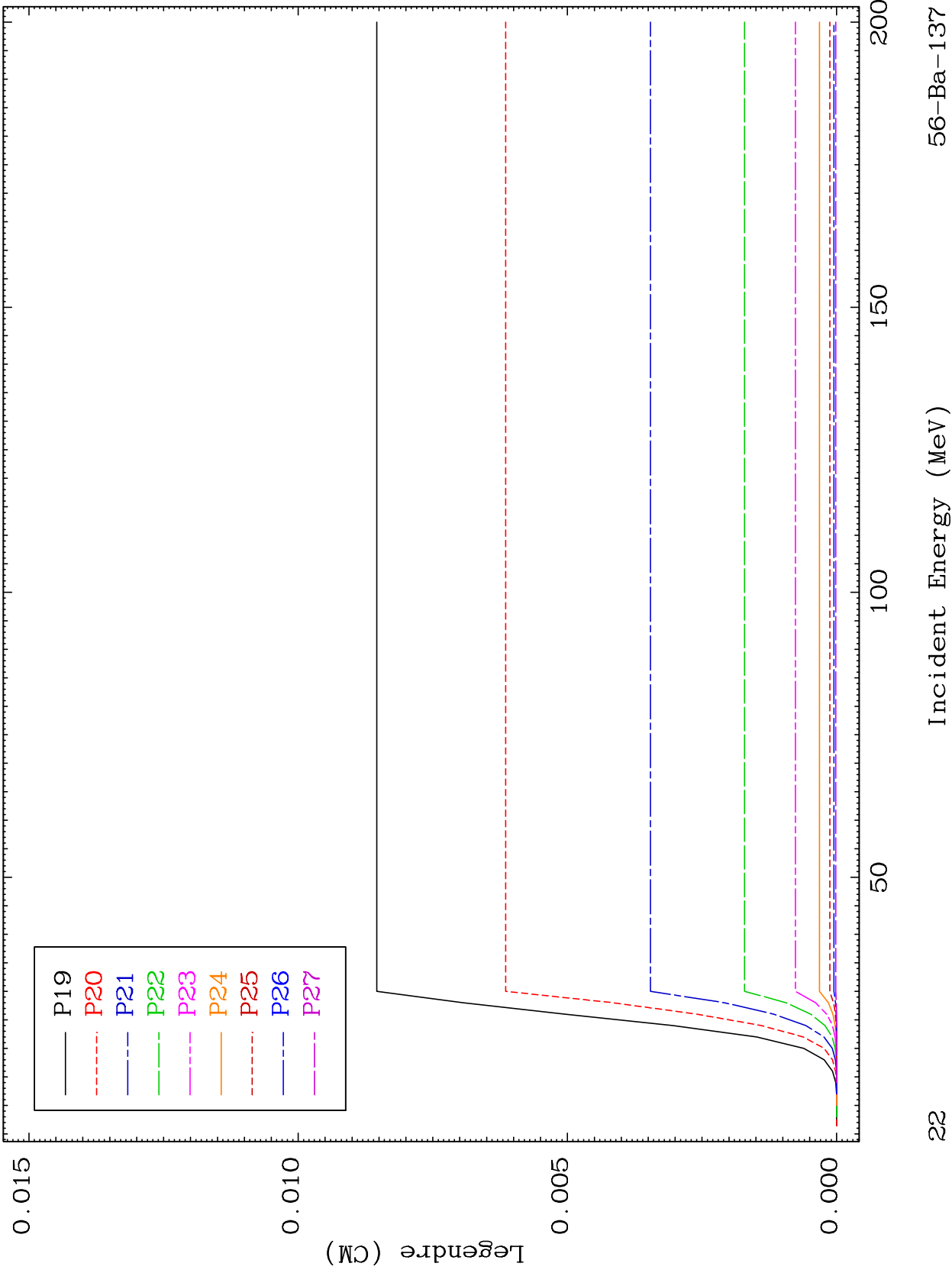
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

56-Ba-137



22

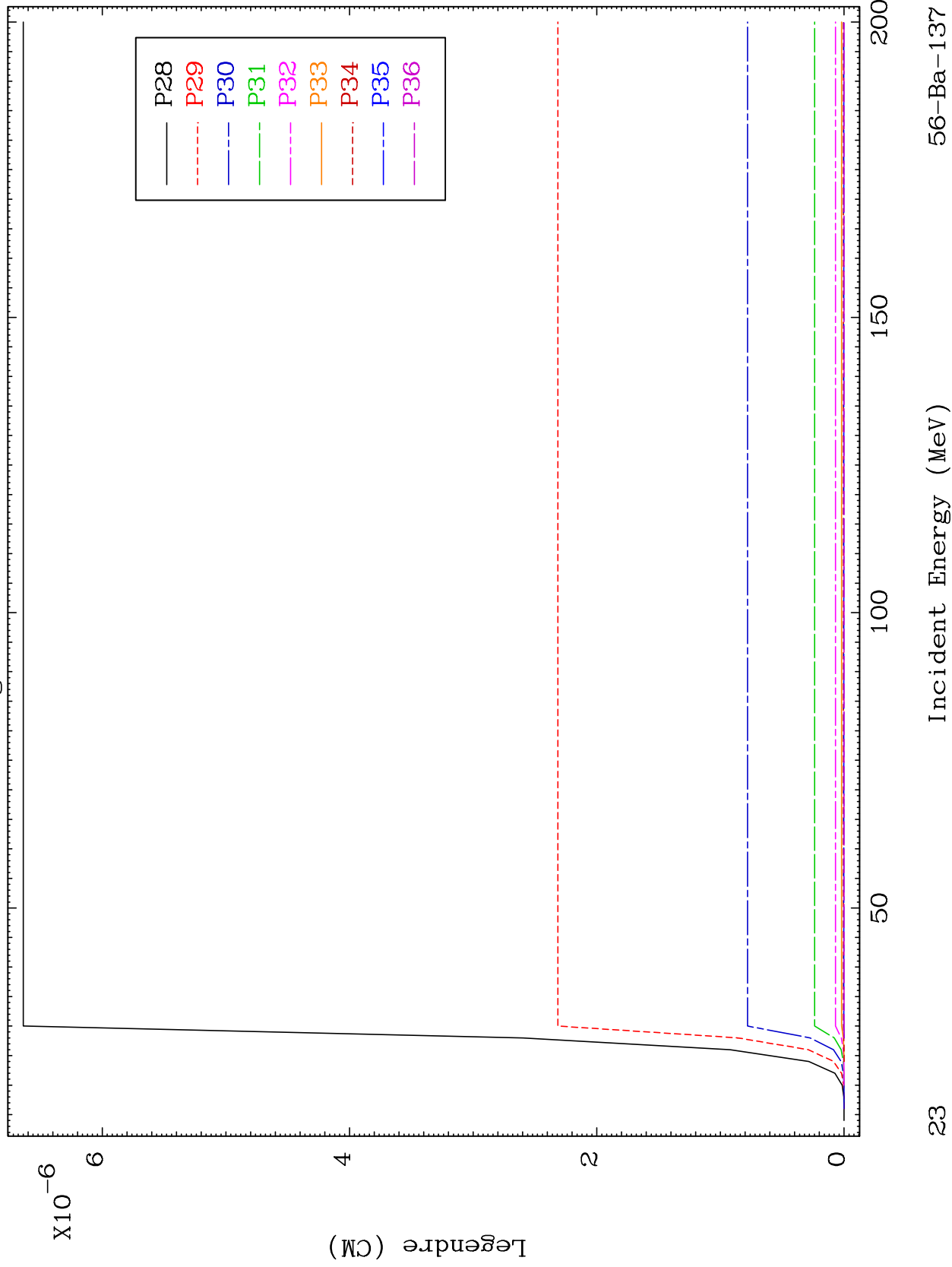
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

56-Ba-137



23

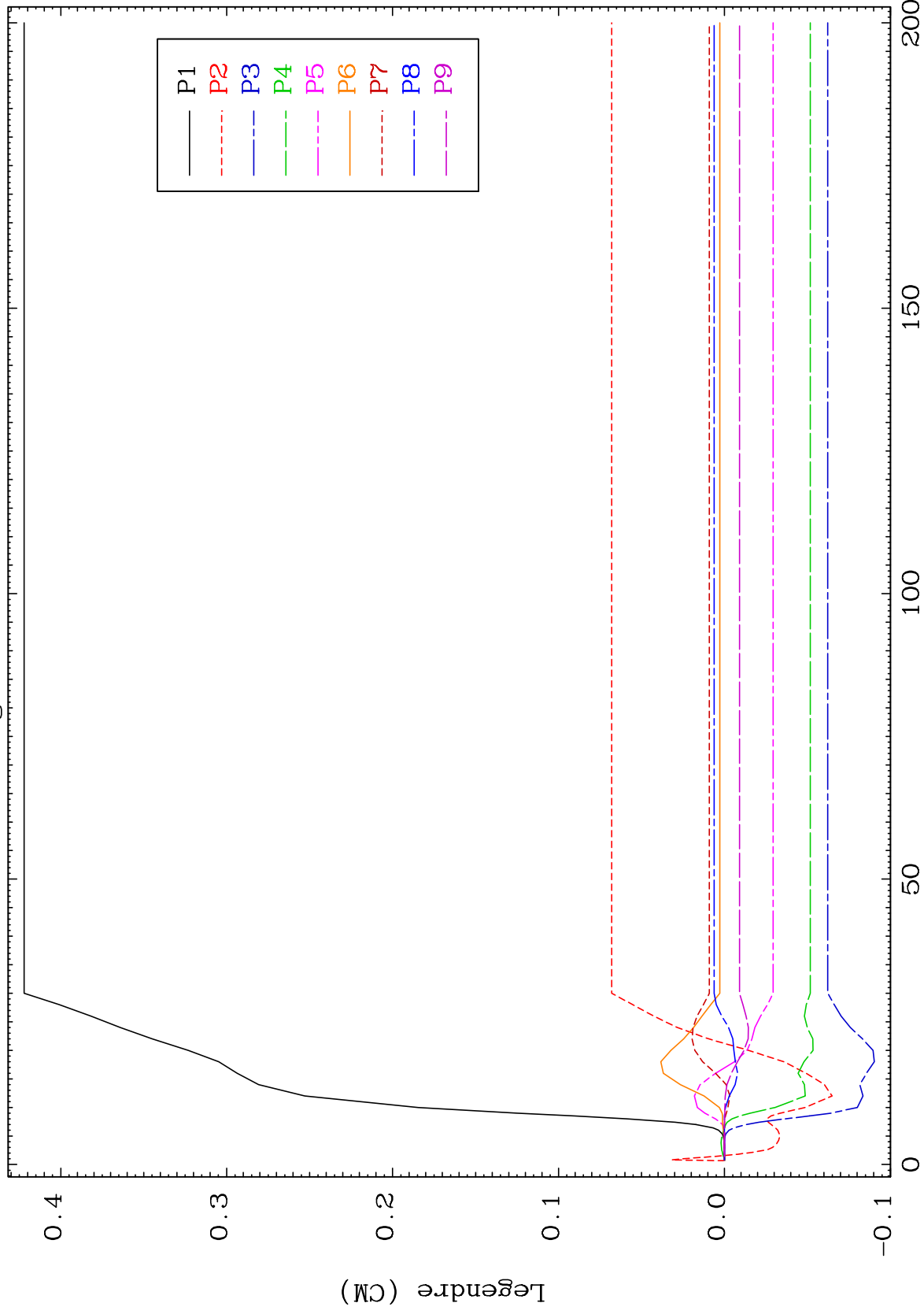
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

56-Ba-137



56-Ba-137

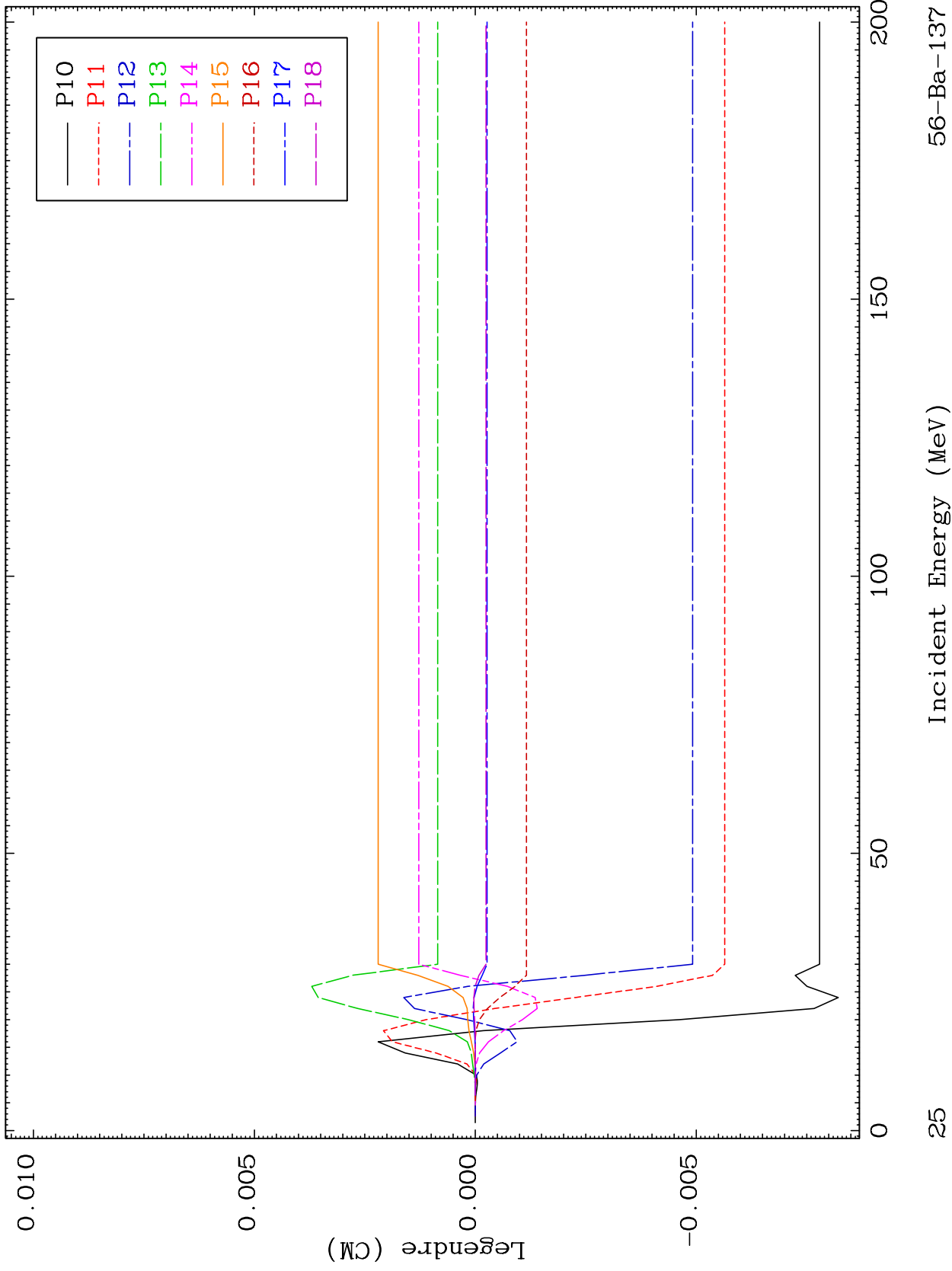
Incident Energy (MeV)

24

MAT 5646

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

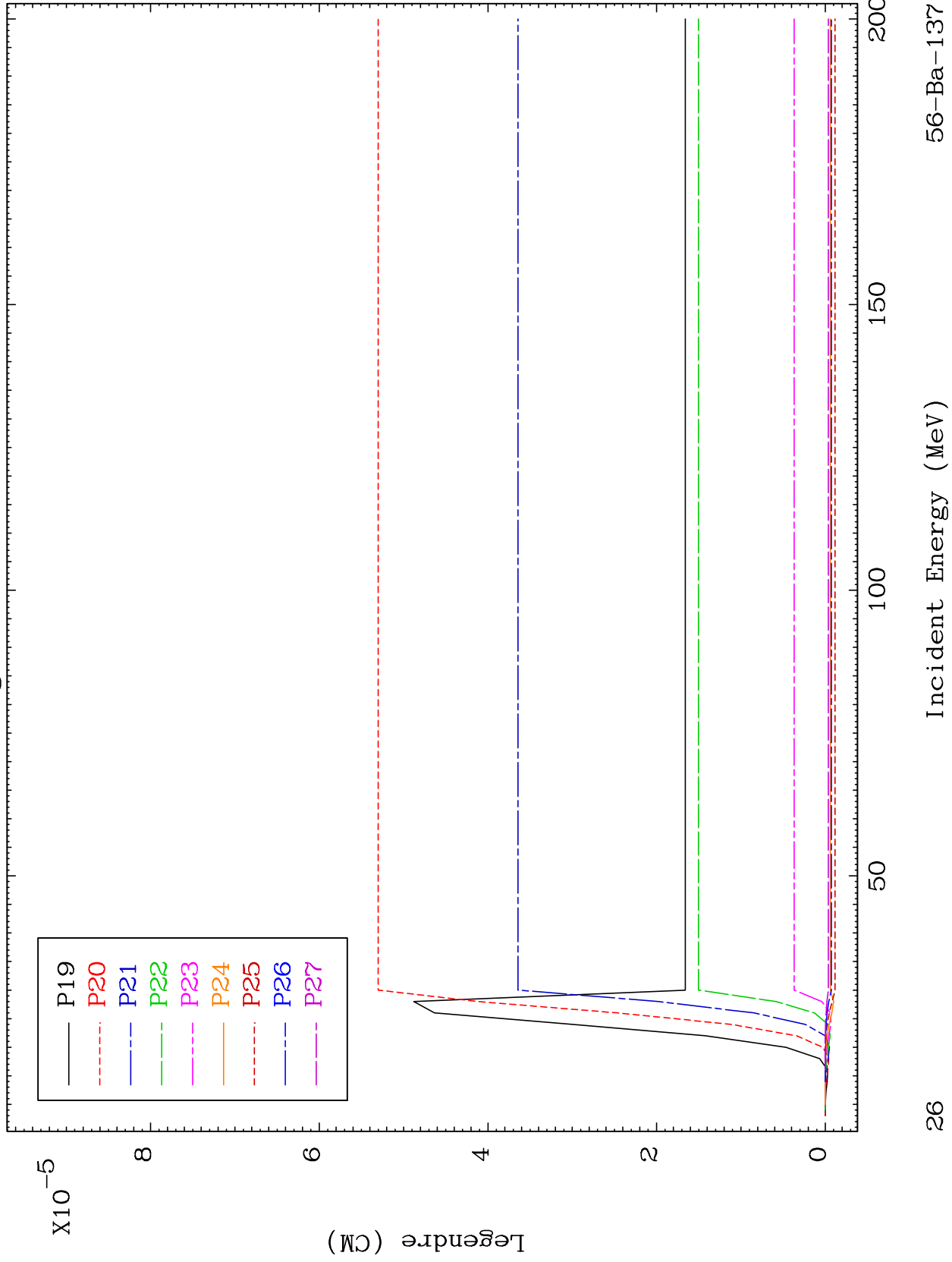
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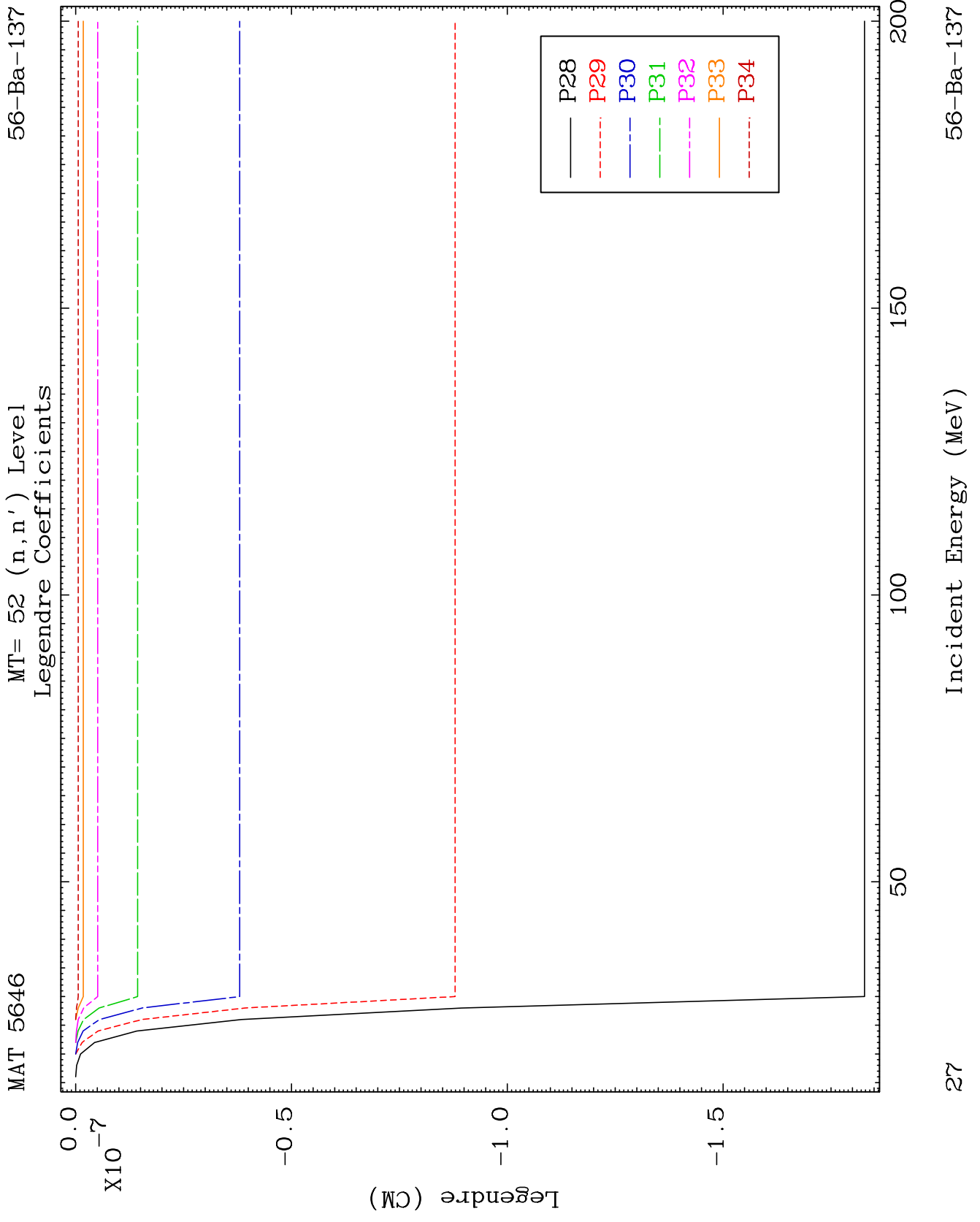
MAT 5646

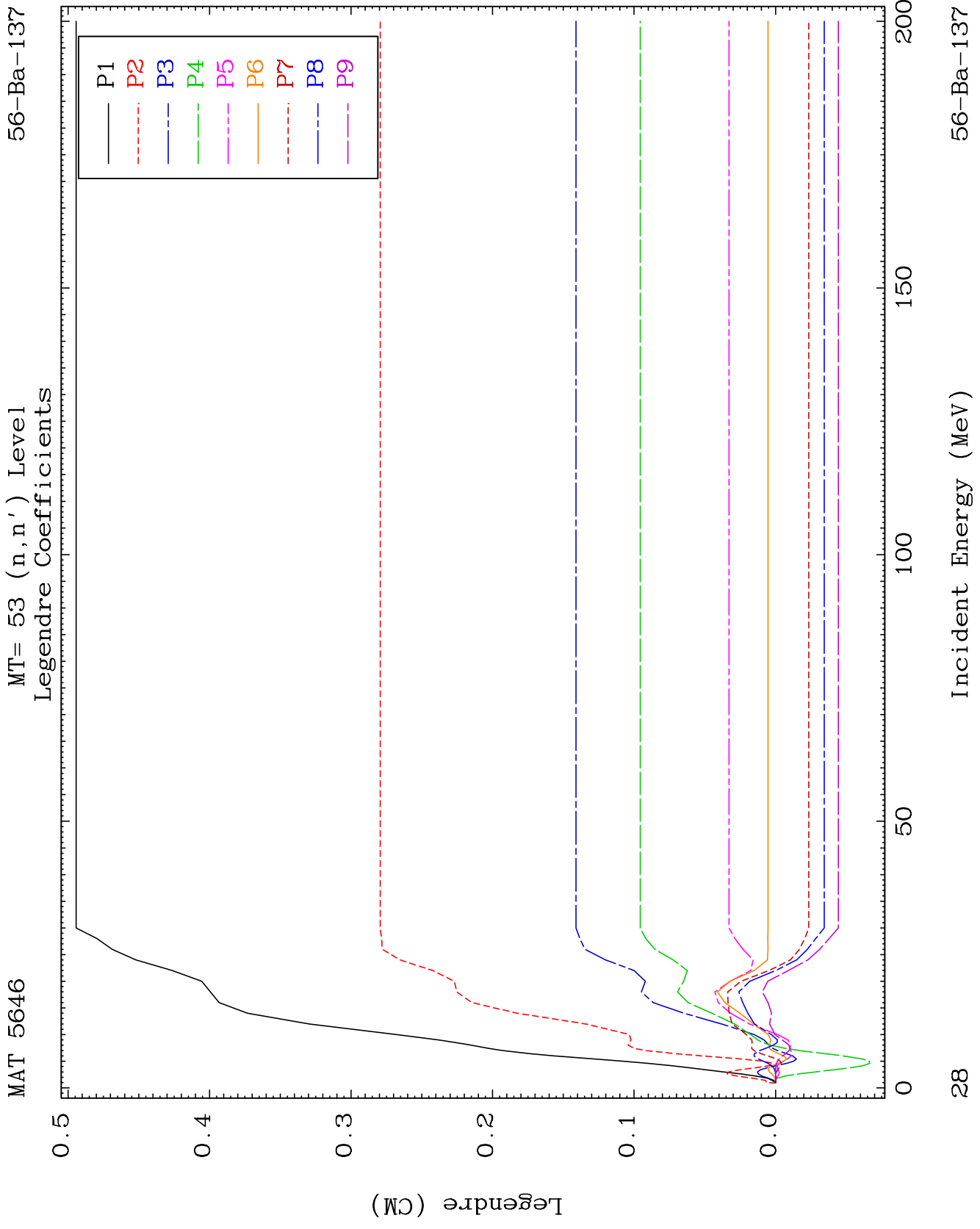
MT= 52 (n,n') Level
Legendre Coefficients

56-Ba-137



26

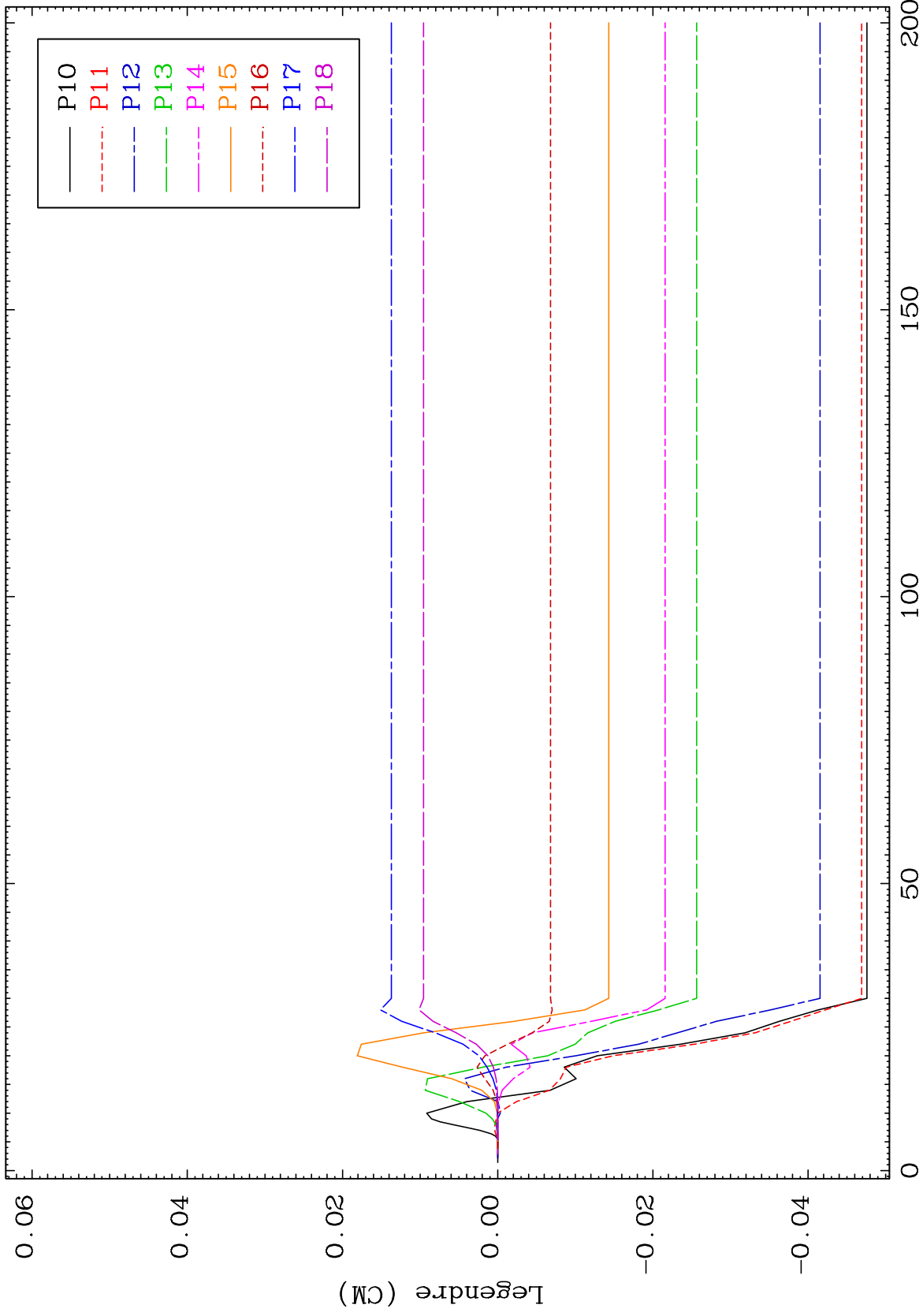




MAT 5646

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

56-Ba-137



29

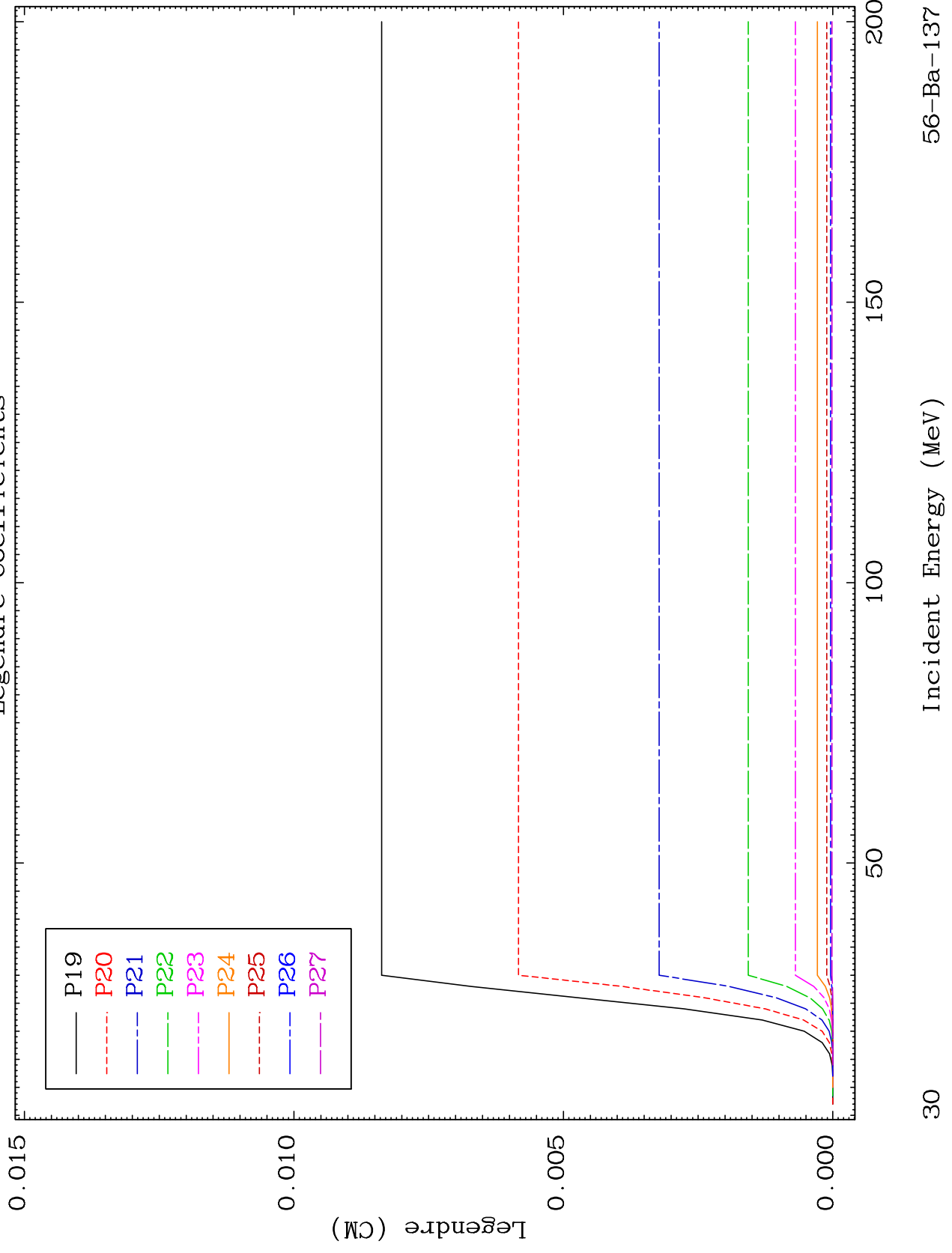
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

56-Ba-137



30

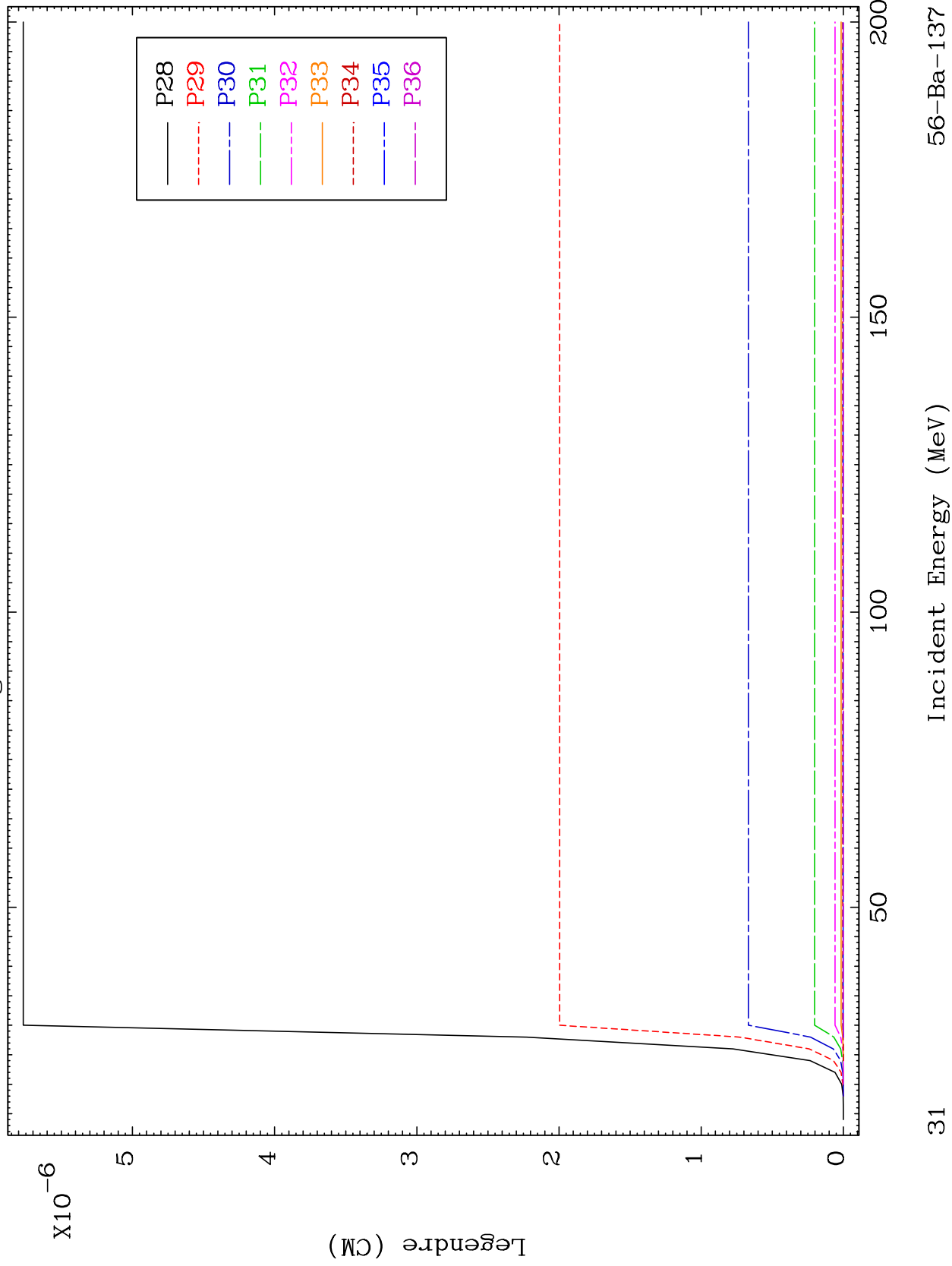
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

56-Ba-137

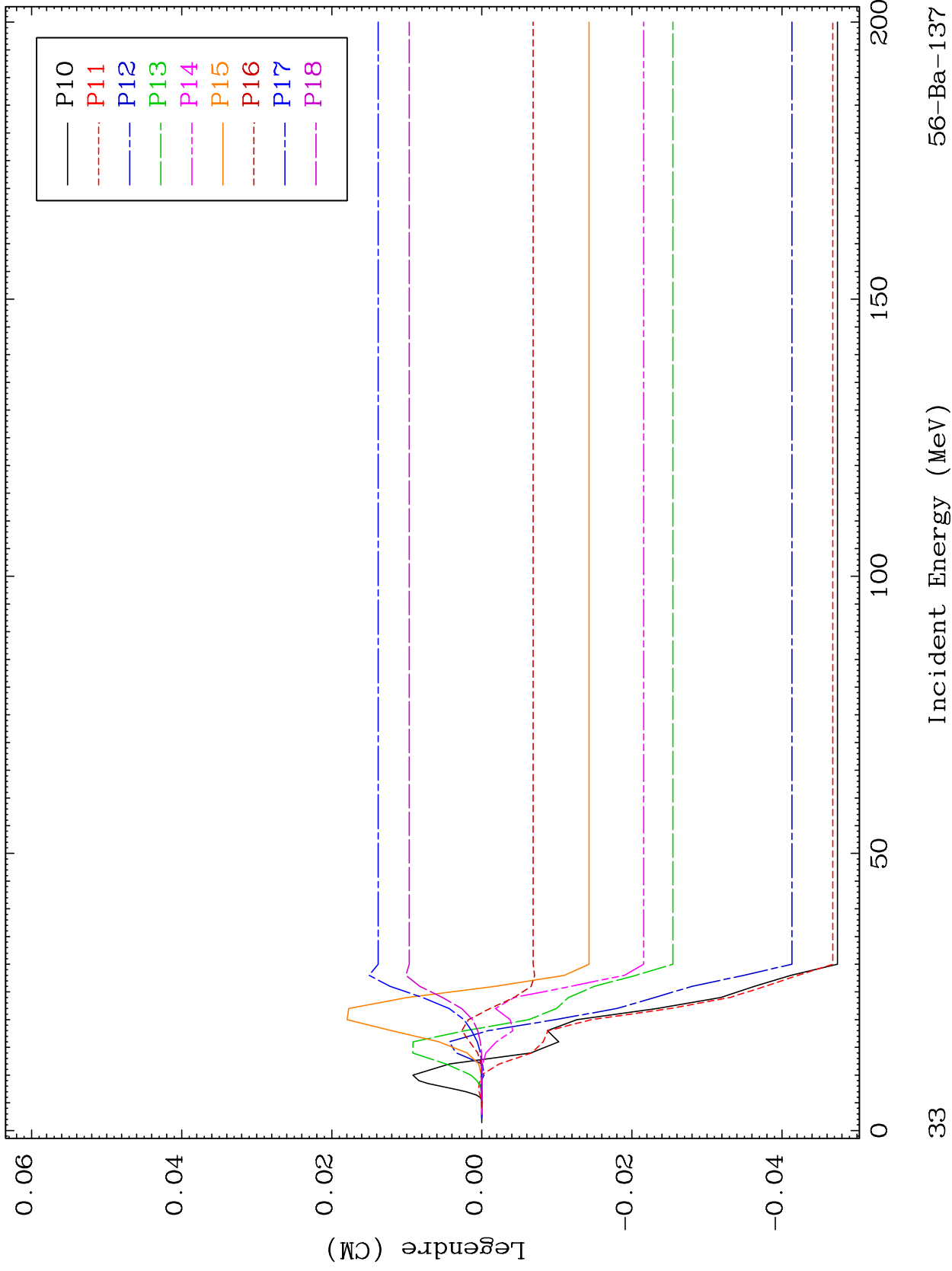


31

MAT 5646

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

56-Ba-137



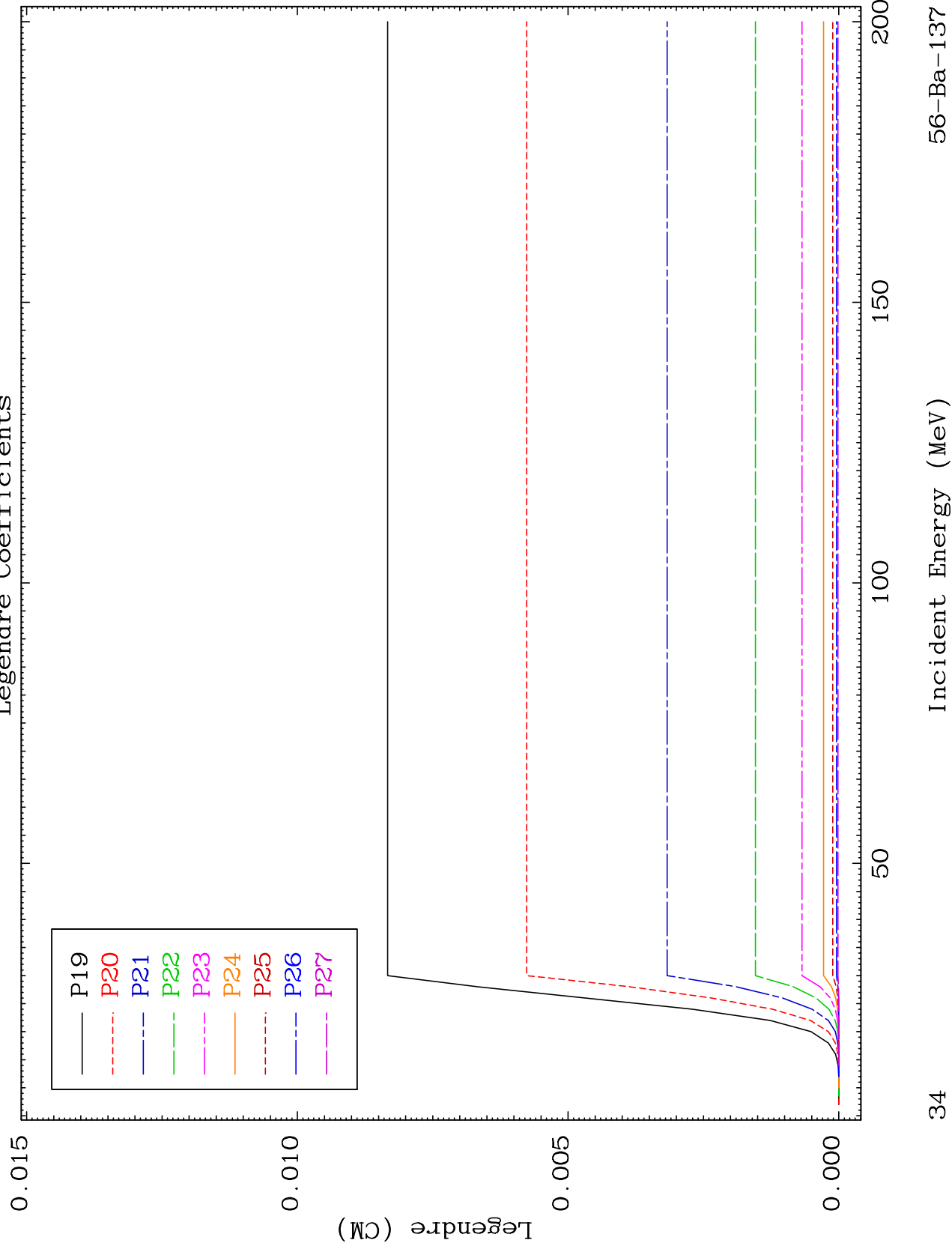
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56-Ba-137

MAT 5646

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

56-Ba-137



34

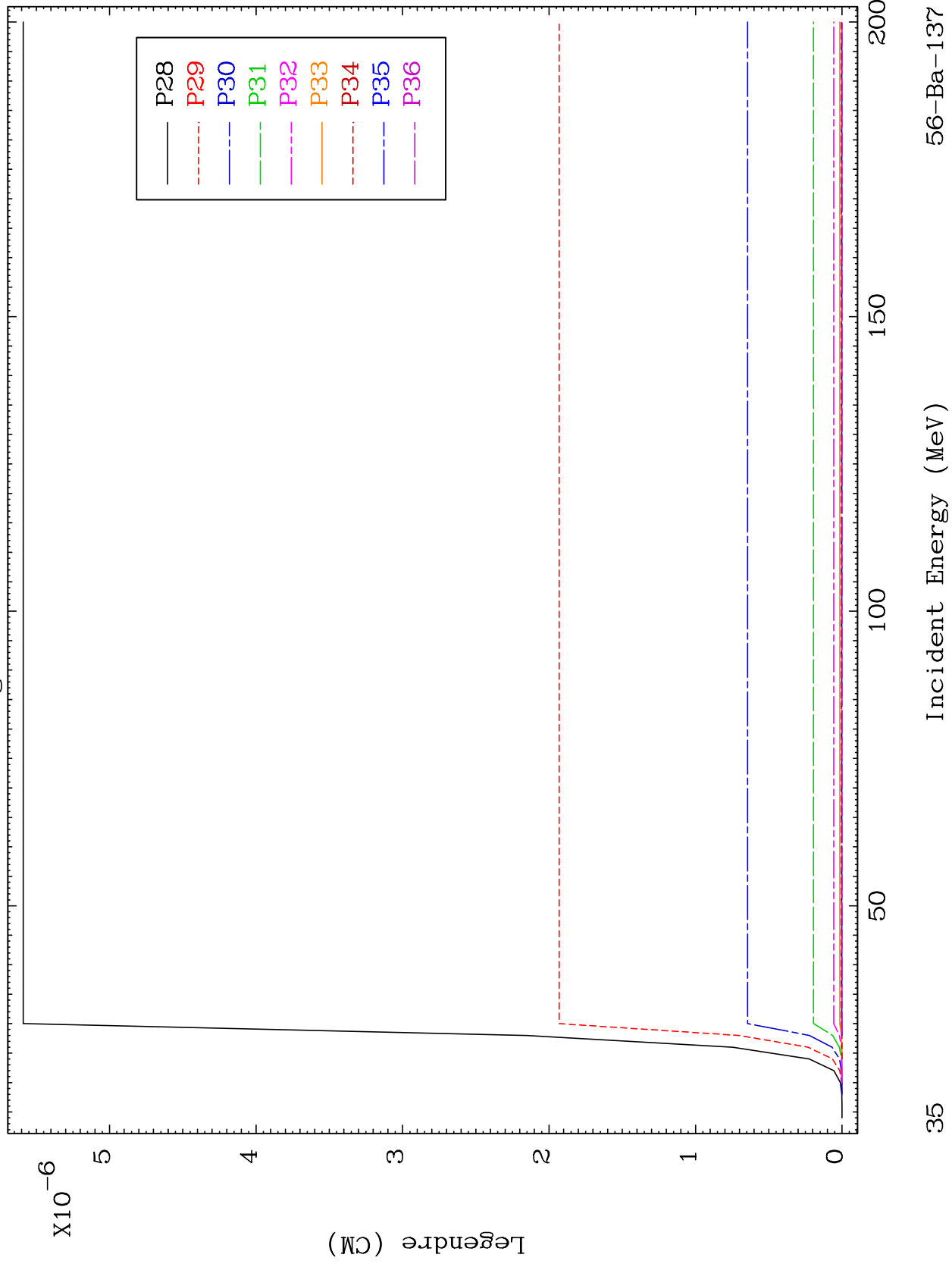
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

56-Ba-137



35

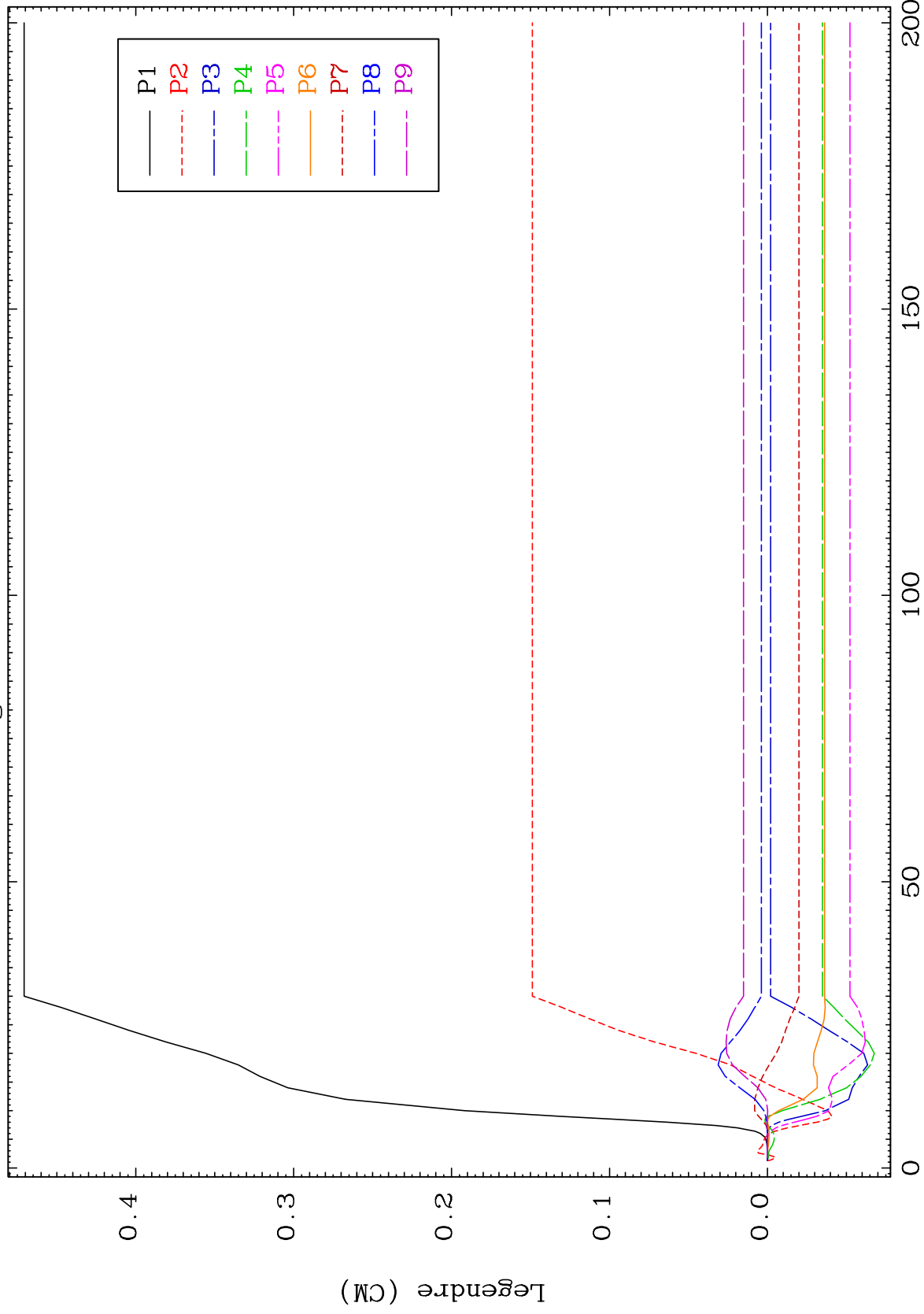
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

56-Ba-137



36

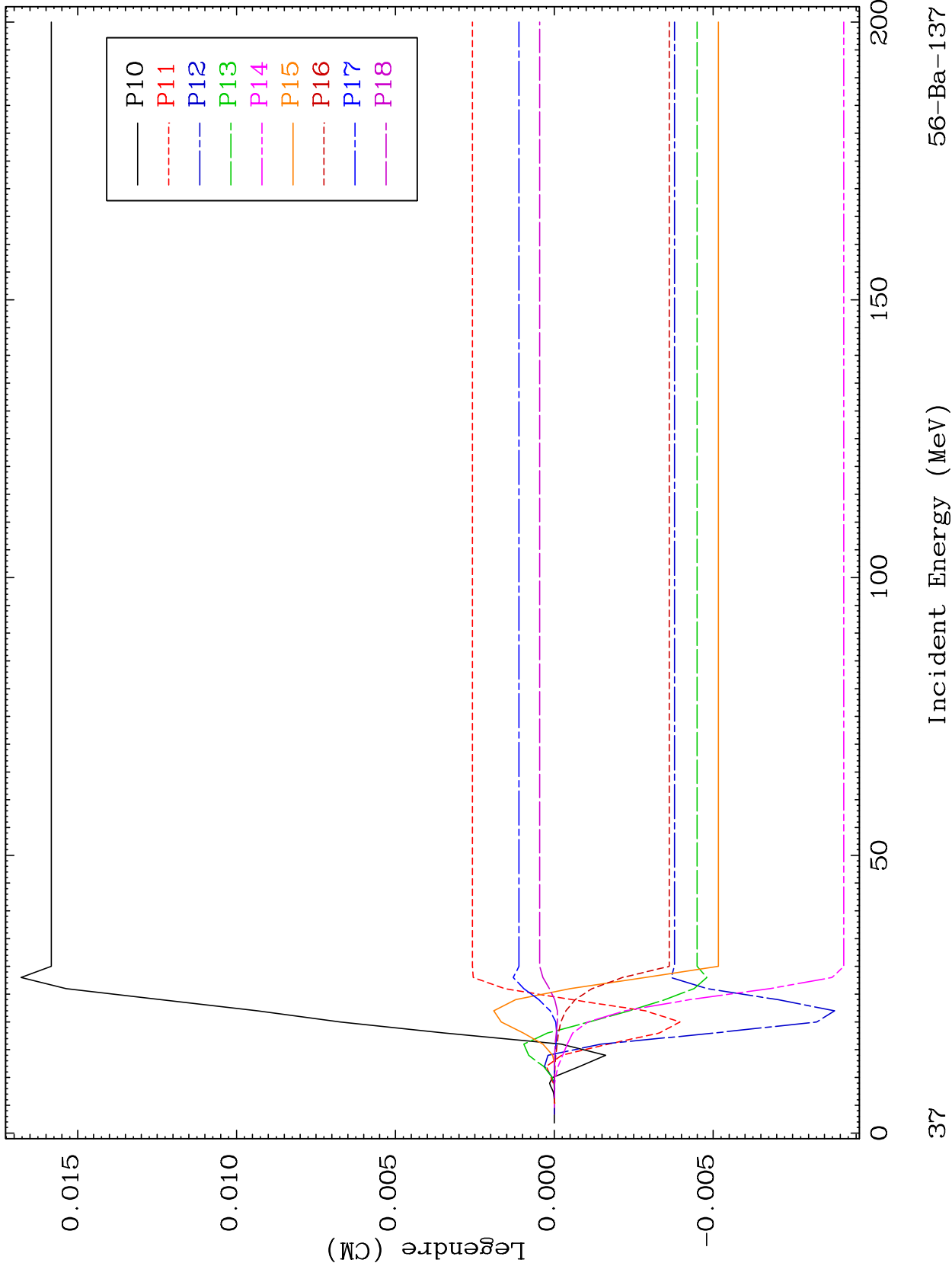
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

56-Ba-137



37

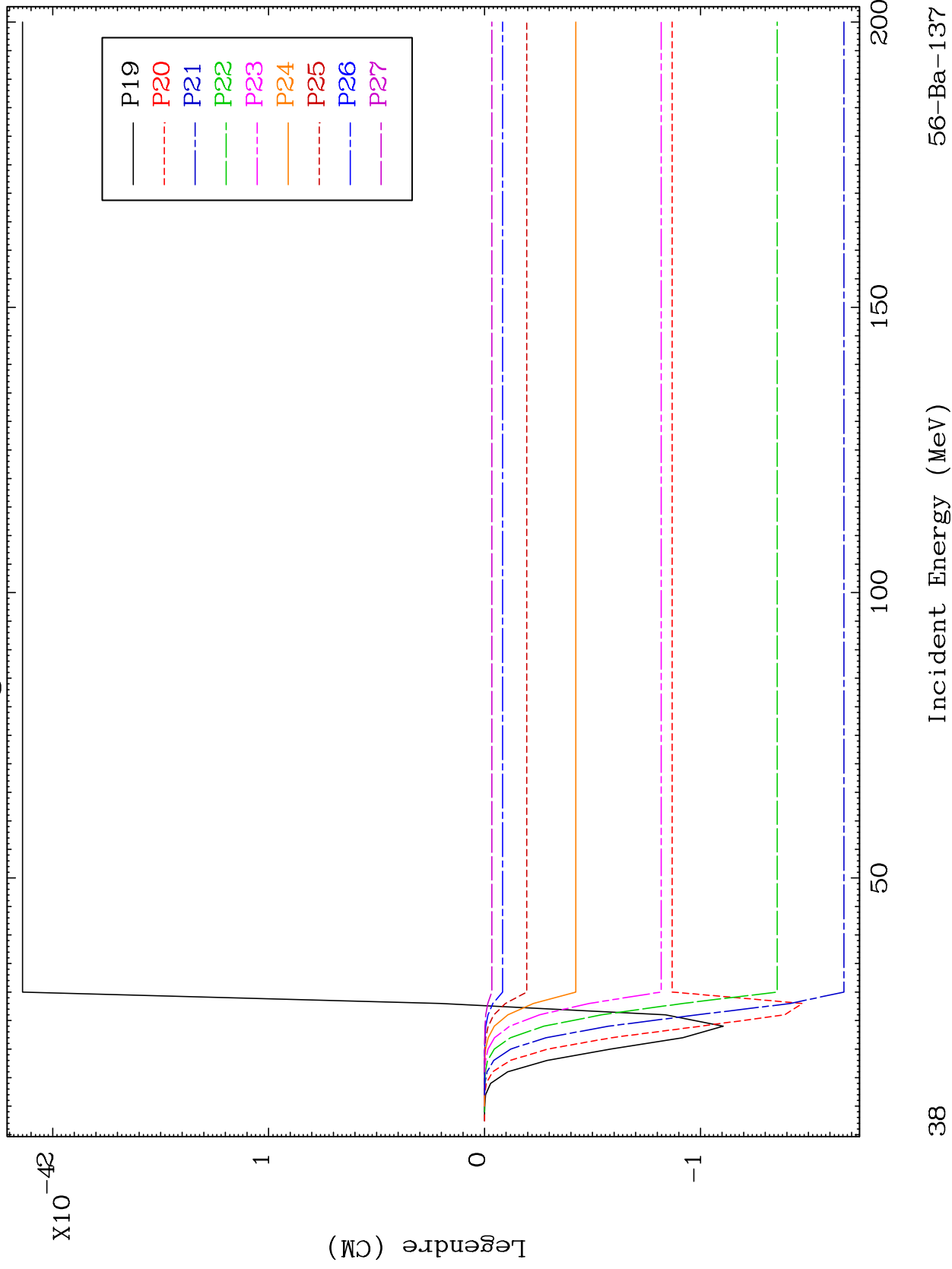
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

56-Ba-137

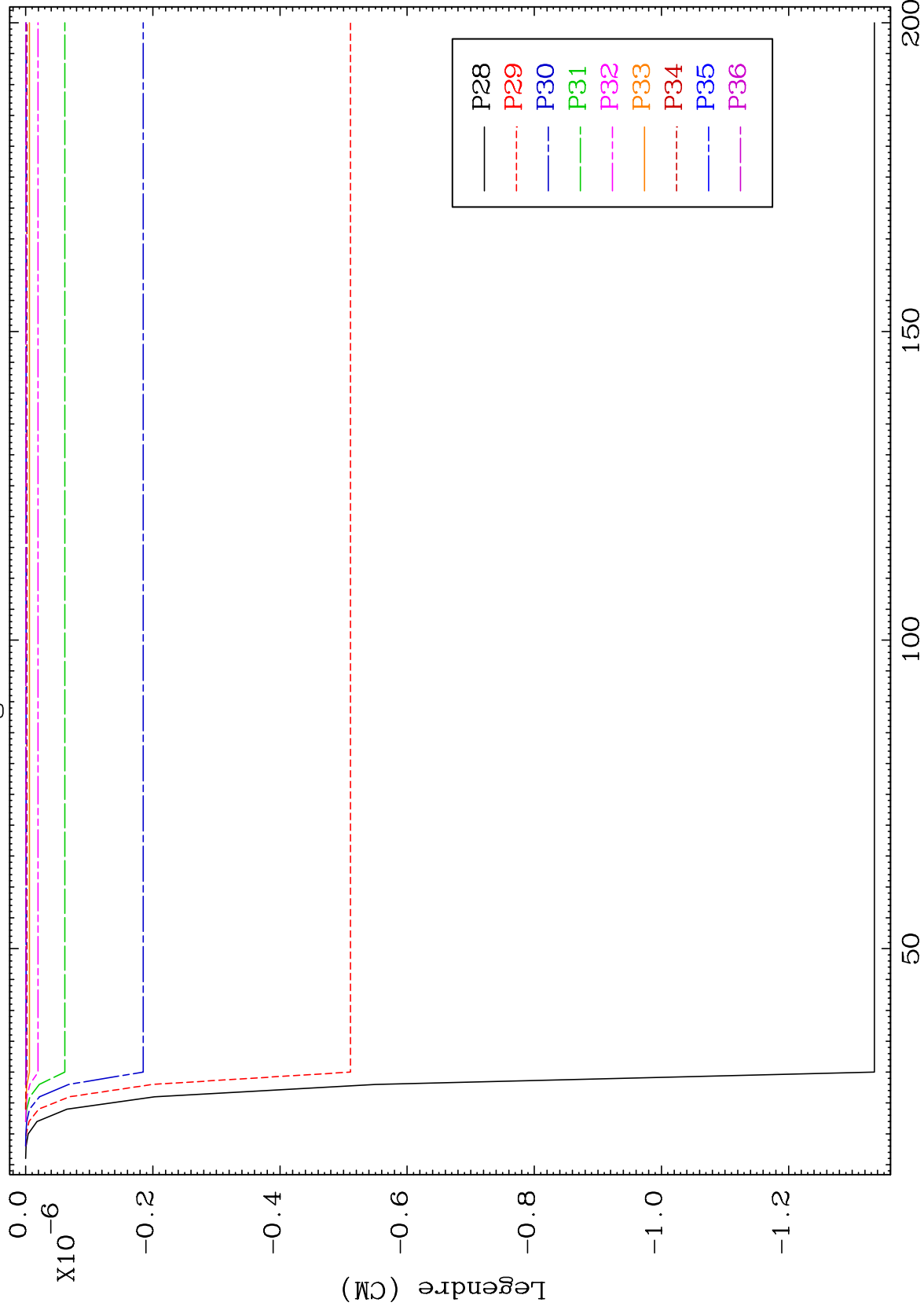


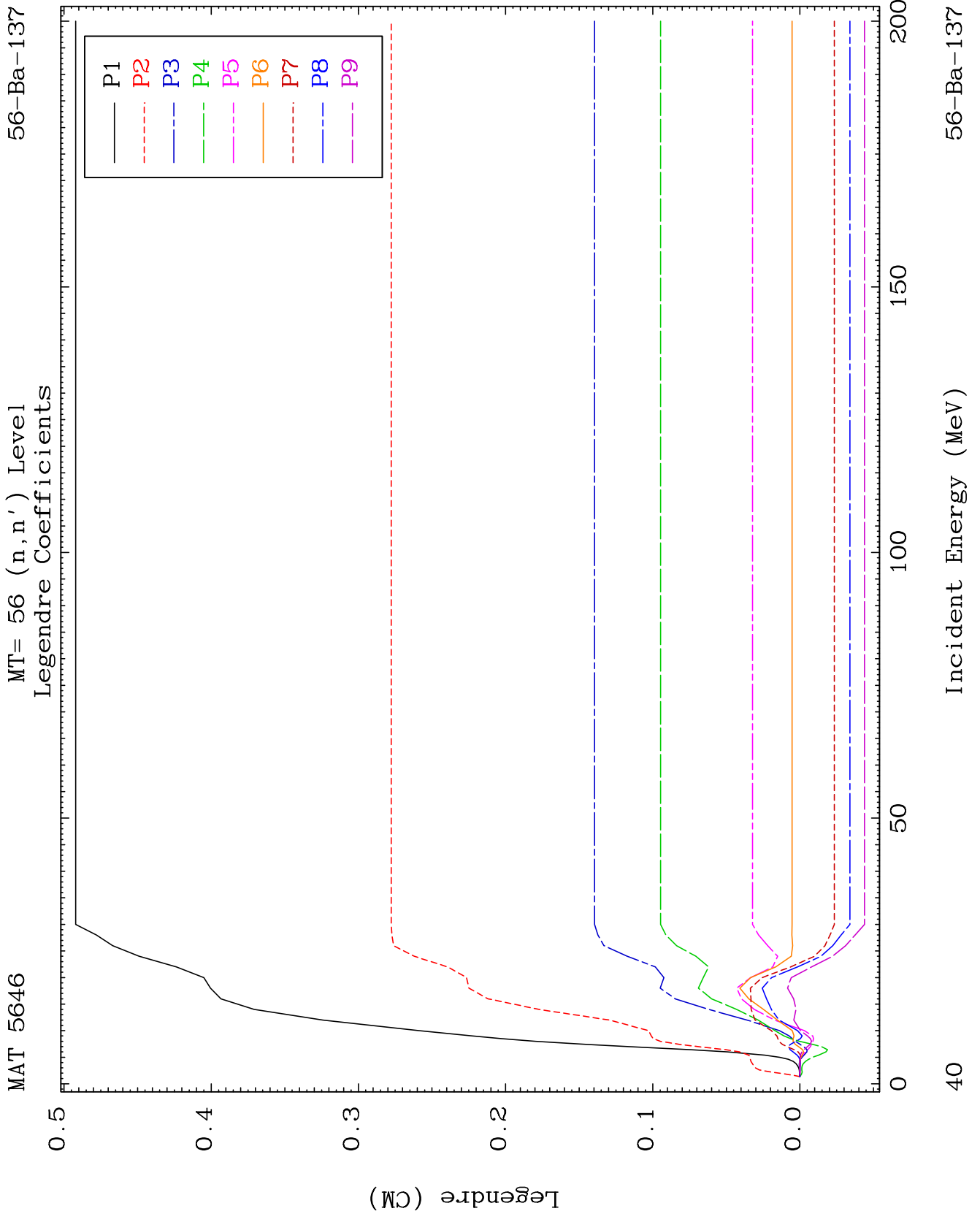
38

Incident Energy (MeV)

56-Ba-137

Legendre Coefficients

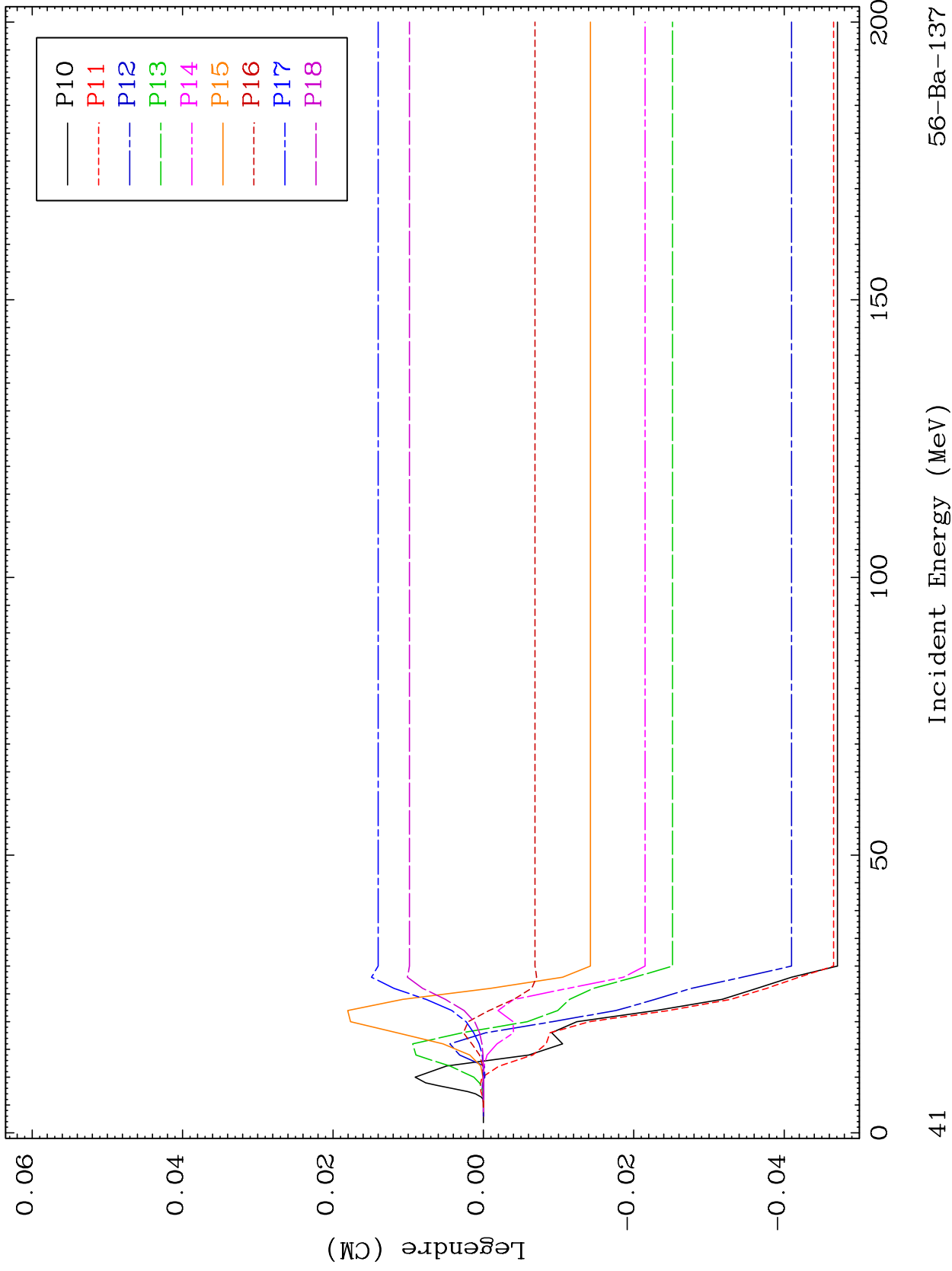




MAT 5646

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

56-Ba-137



41

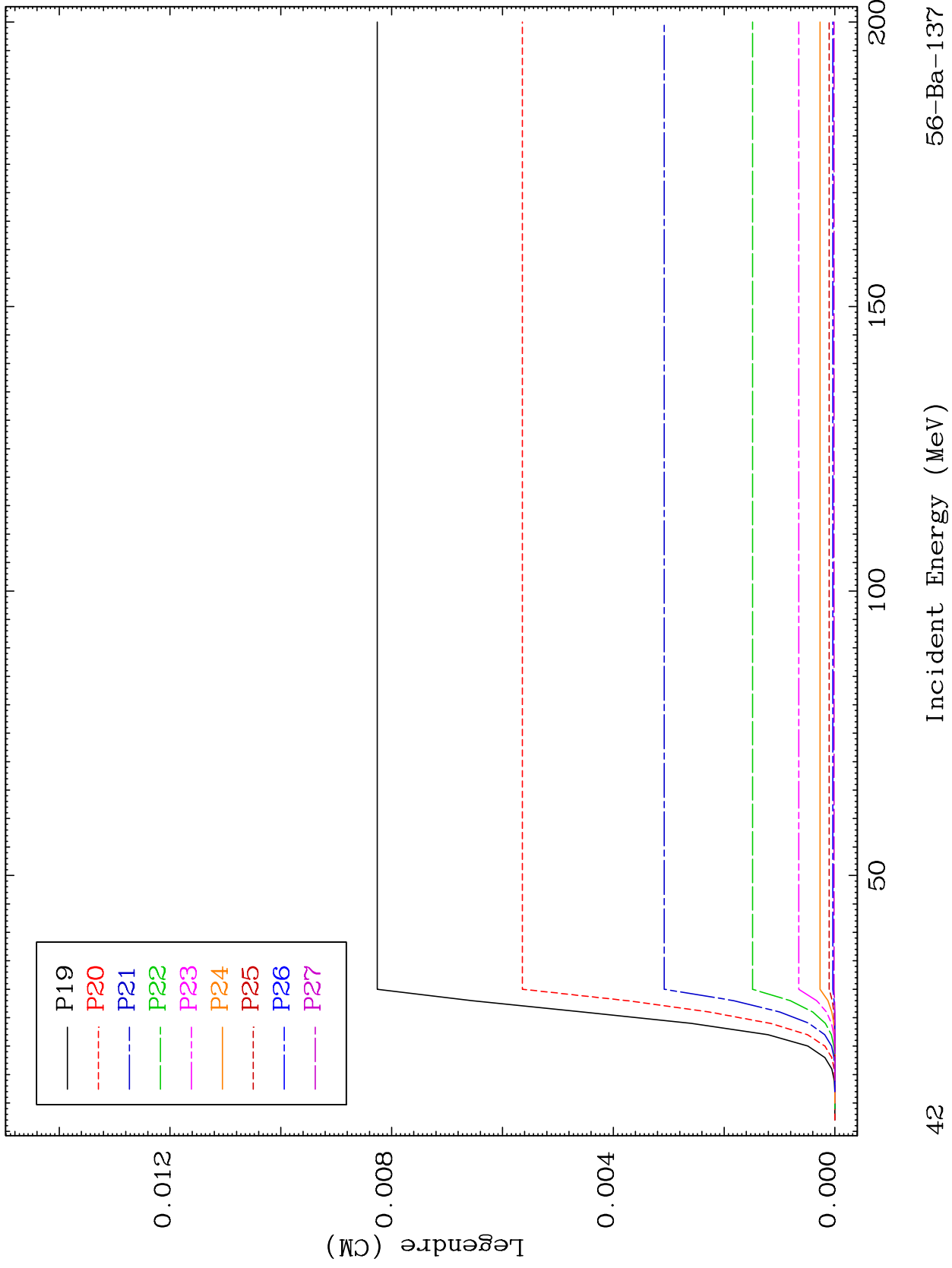
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

56-Ba-137



42

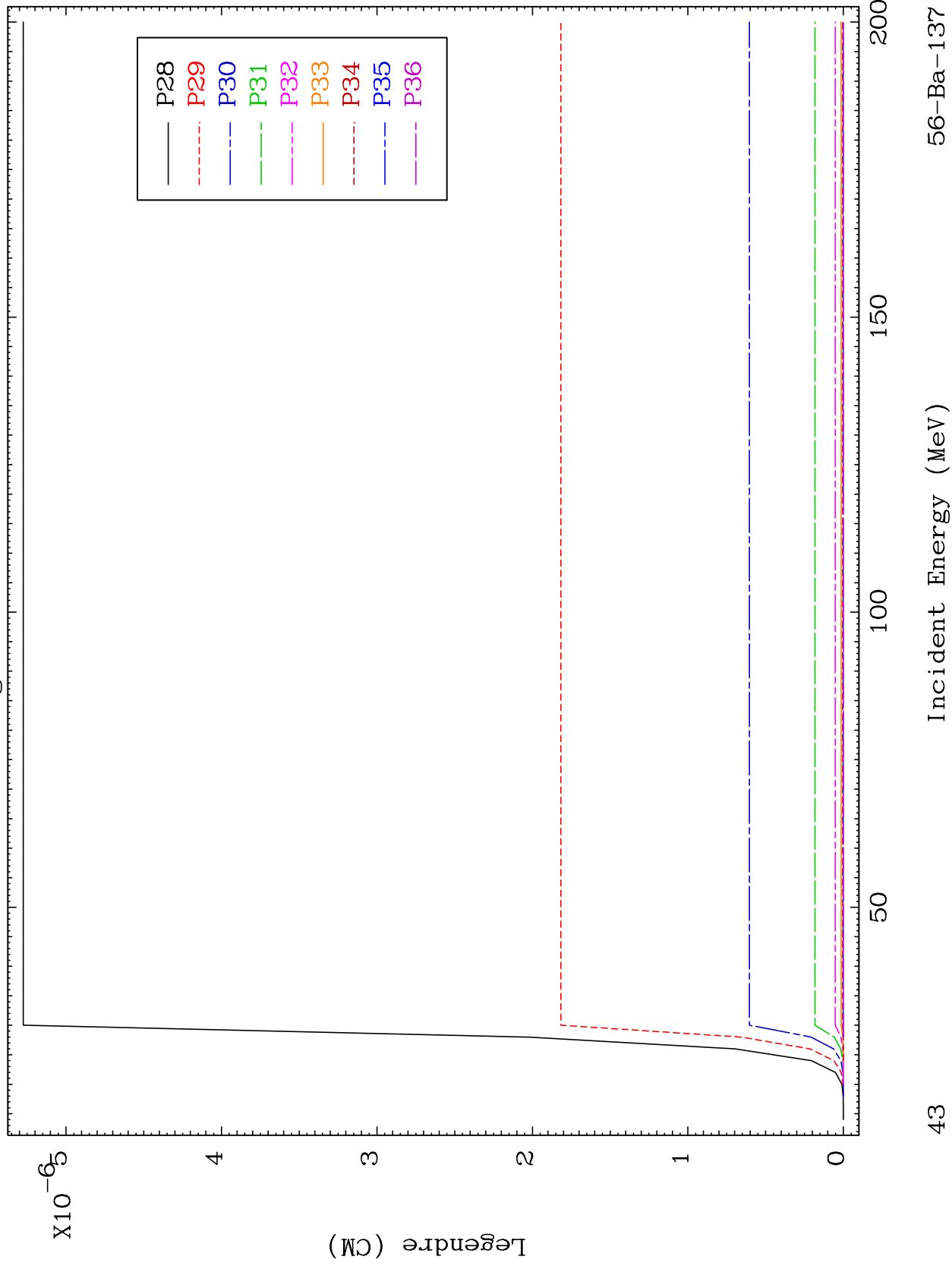
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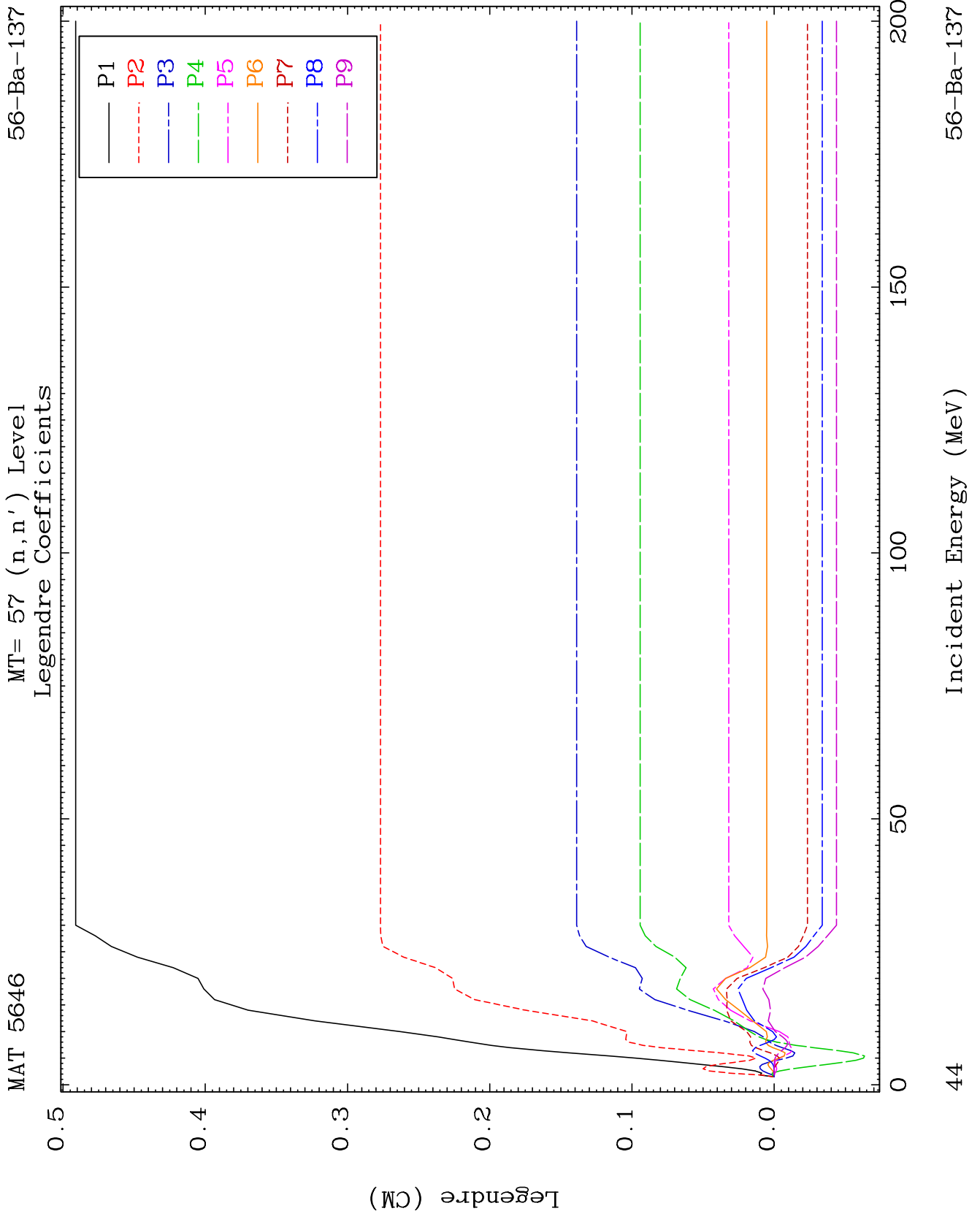
56-Ba-137

MAT 5646

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

56-Ba-137

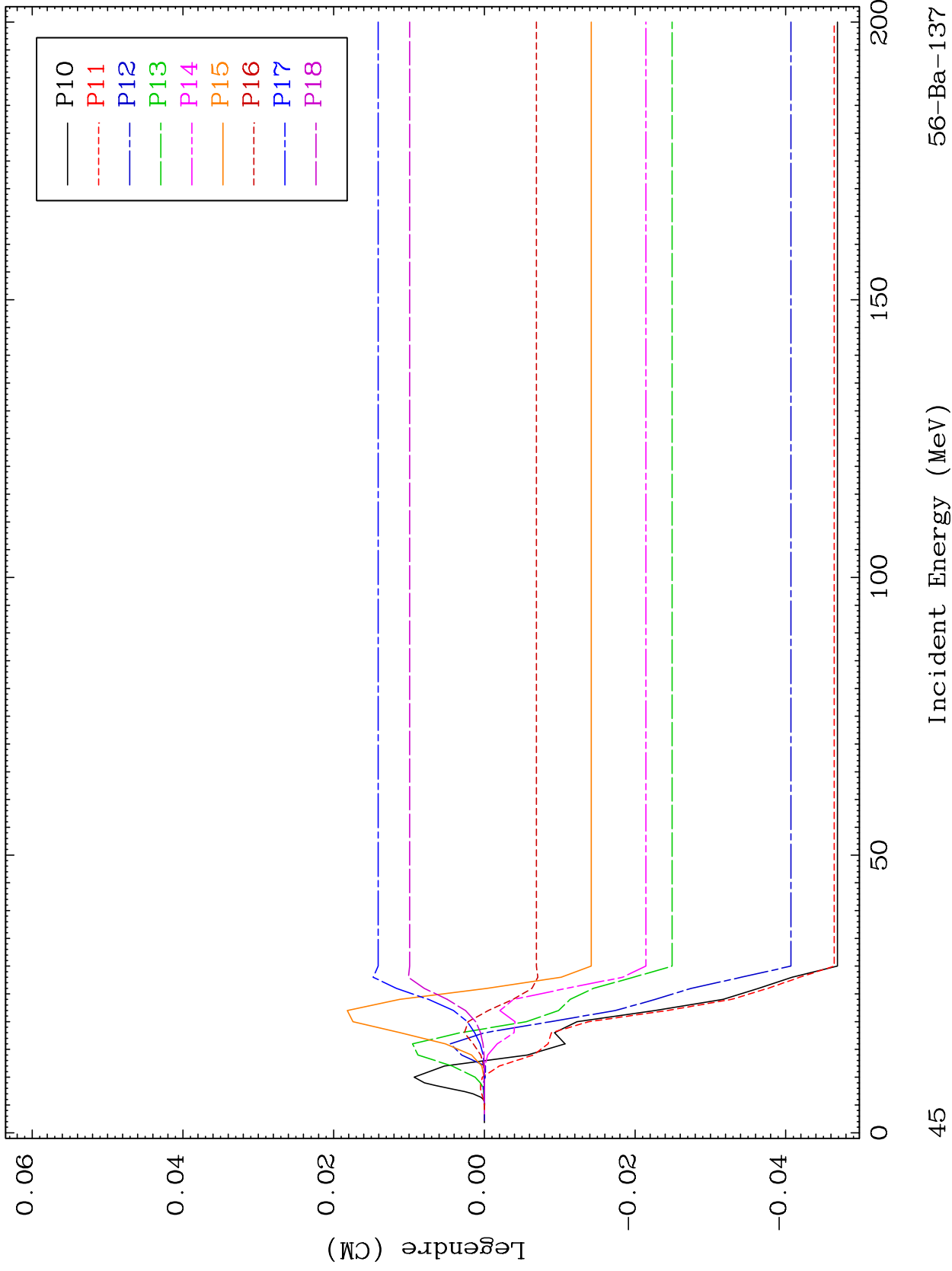




MAT 5646

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

56-Ba-137



56-Ba-137

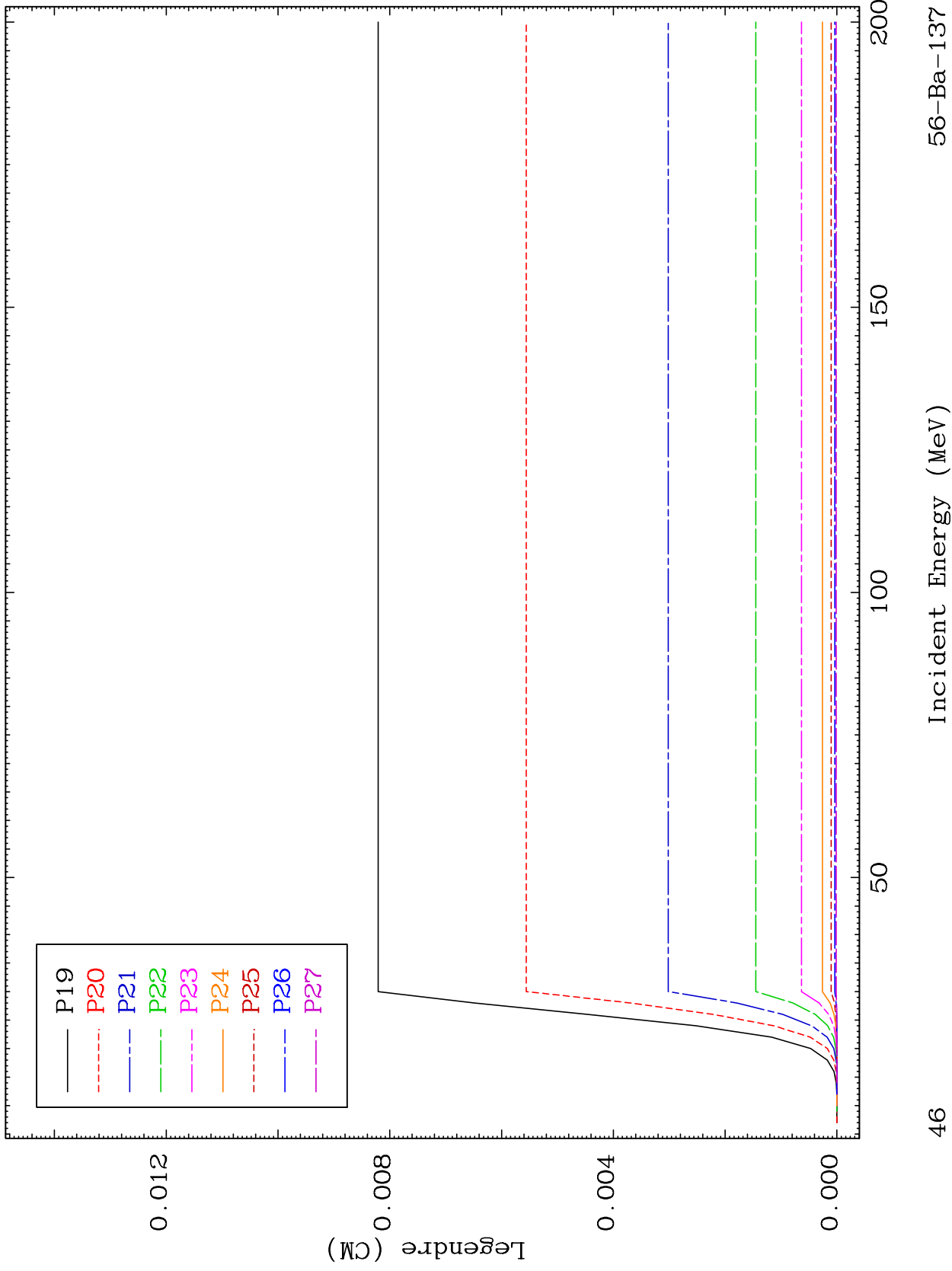
Incident Energy (MeV)

45

MAT 5646

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

56-Ba-137



46

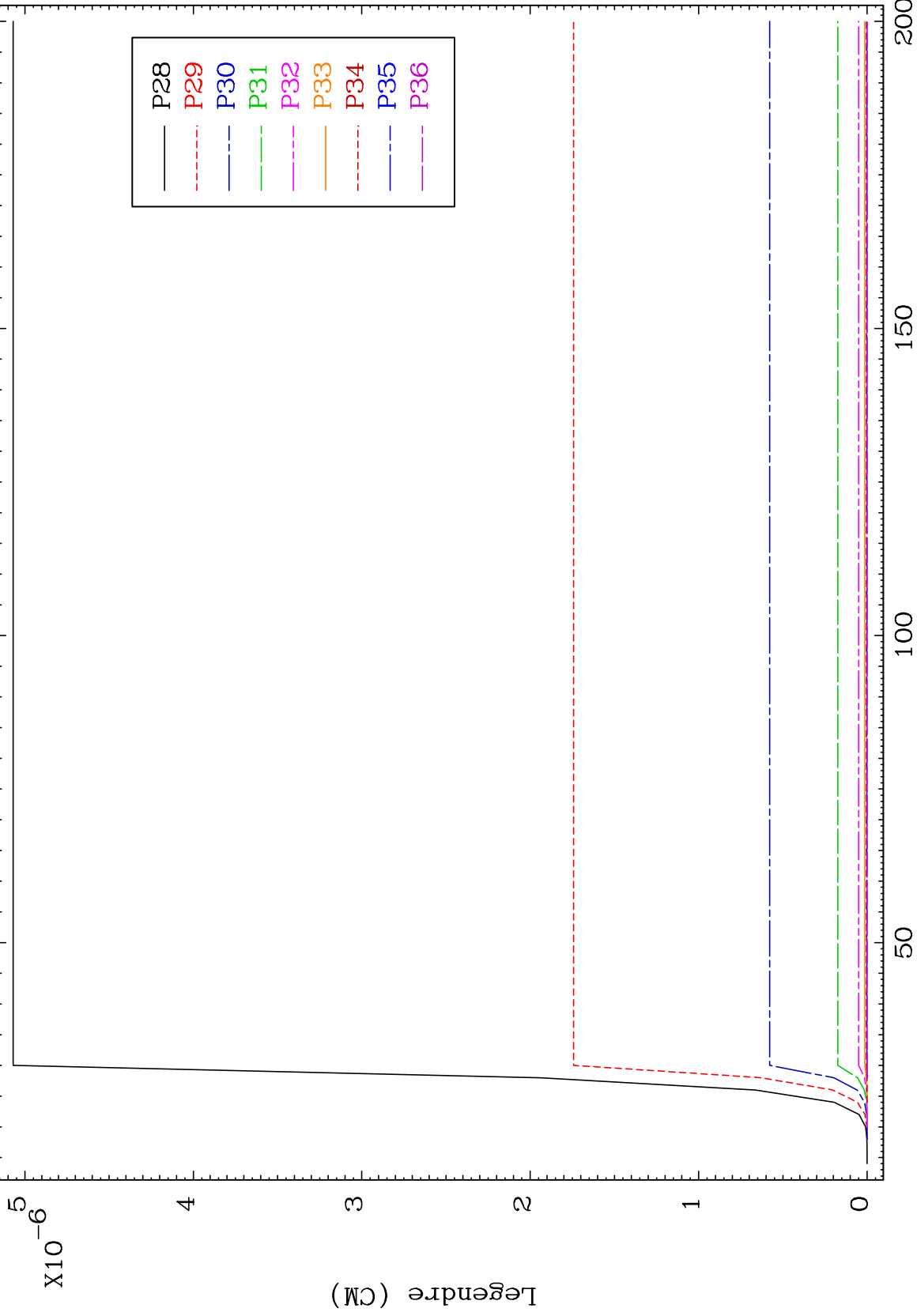
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

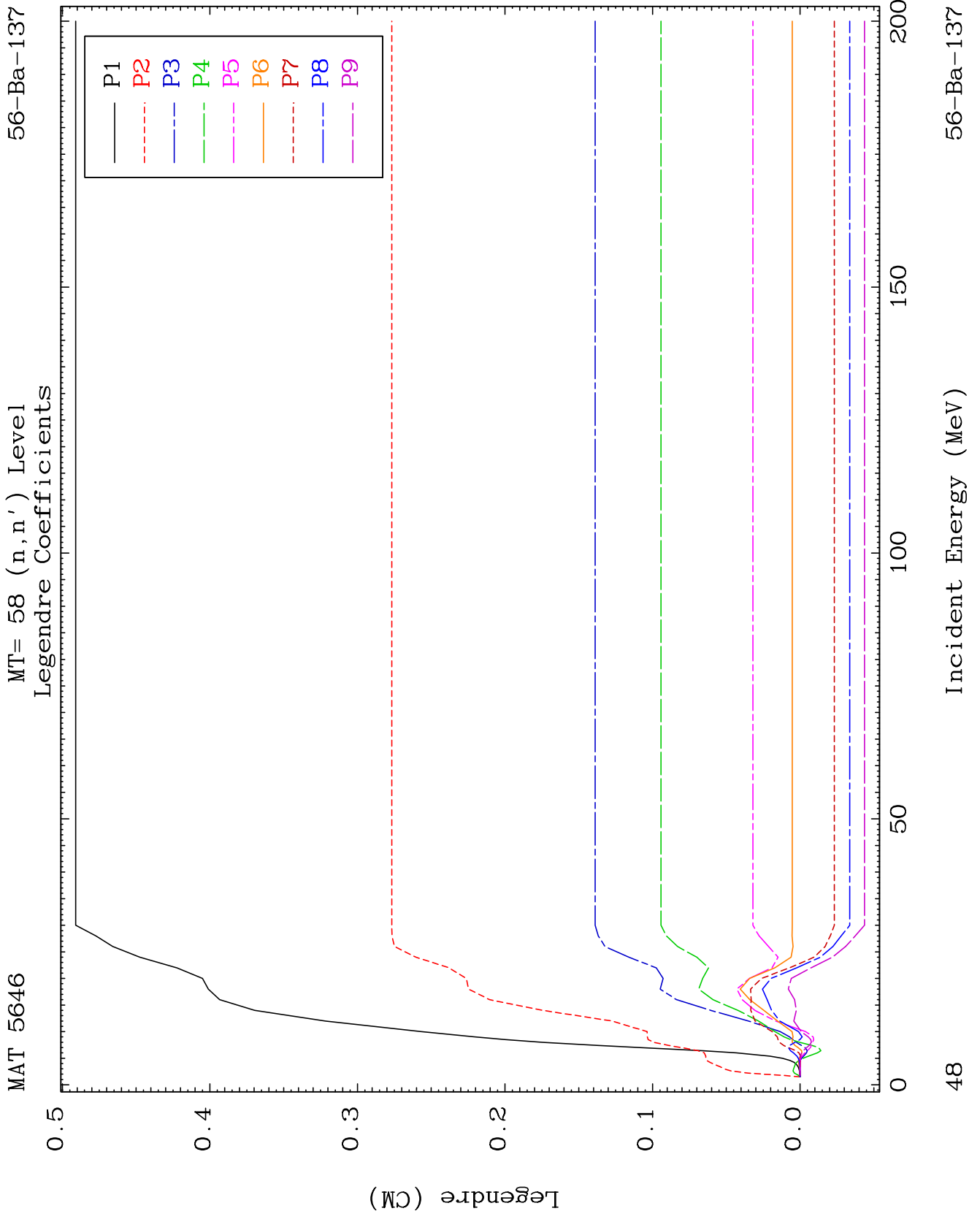
56-Ba-137



47

Incident Energy (MeV)

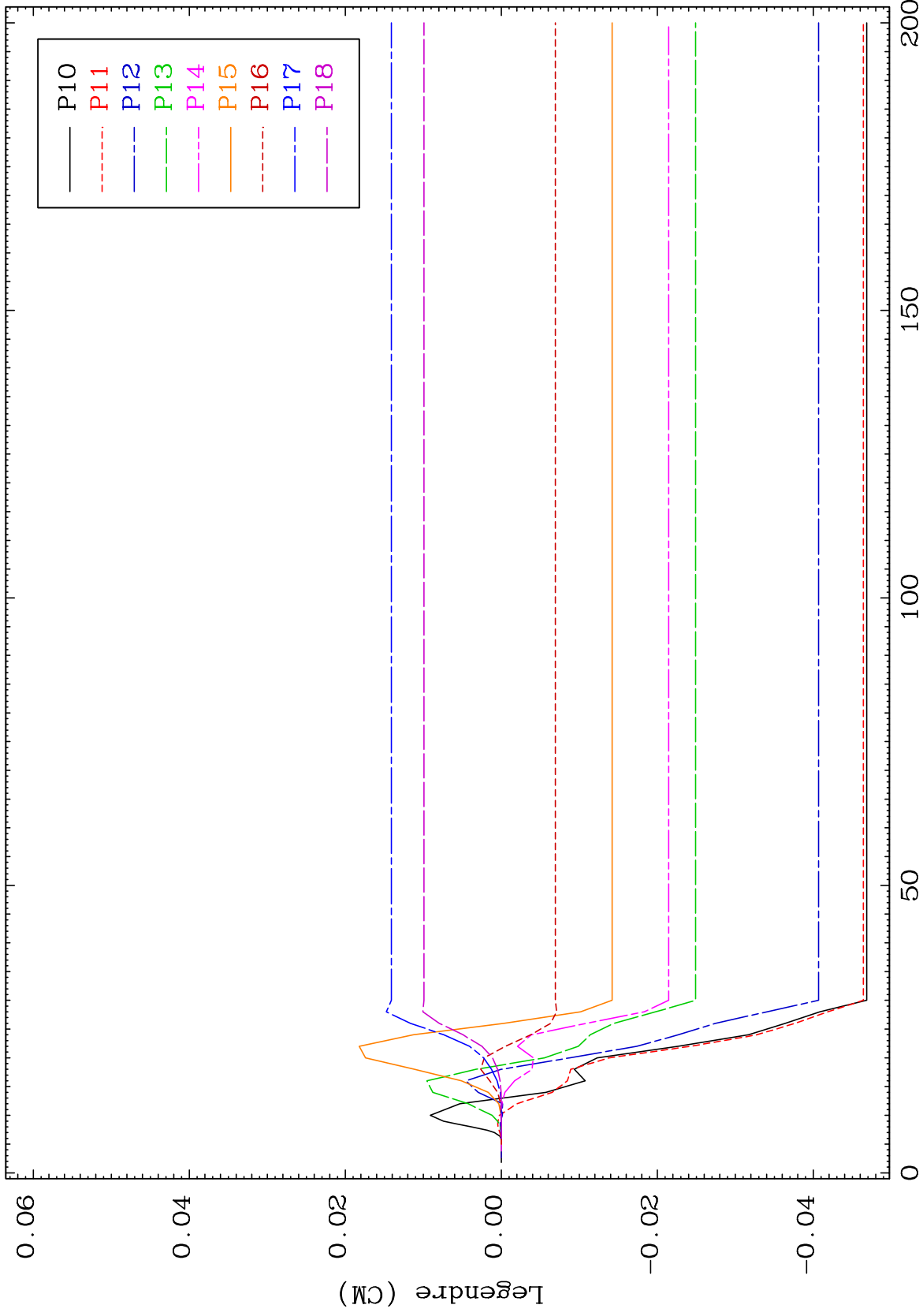
56-Ba-137



MAT 5646

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

56-Ba-137



49

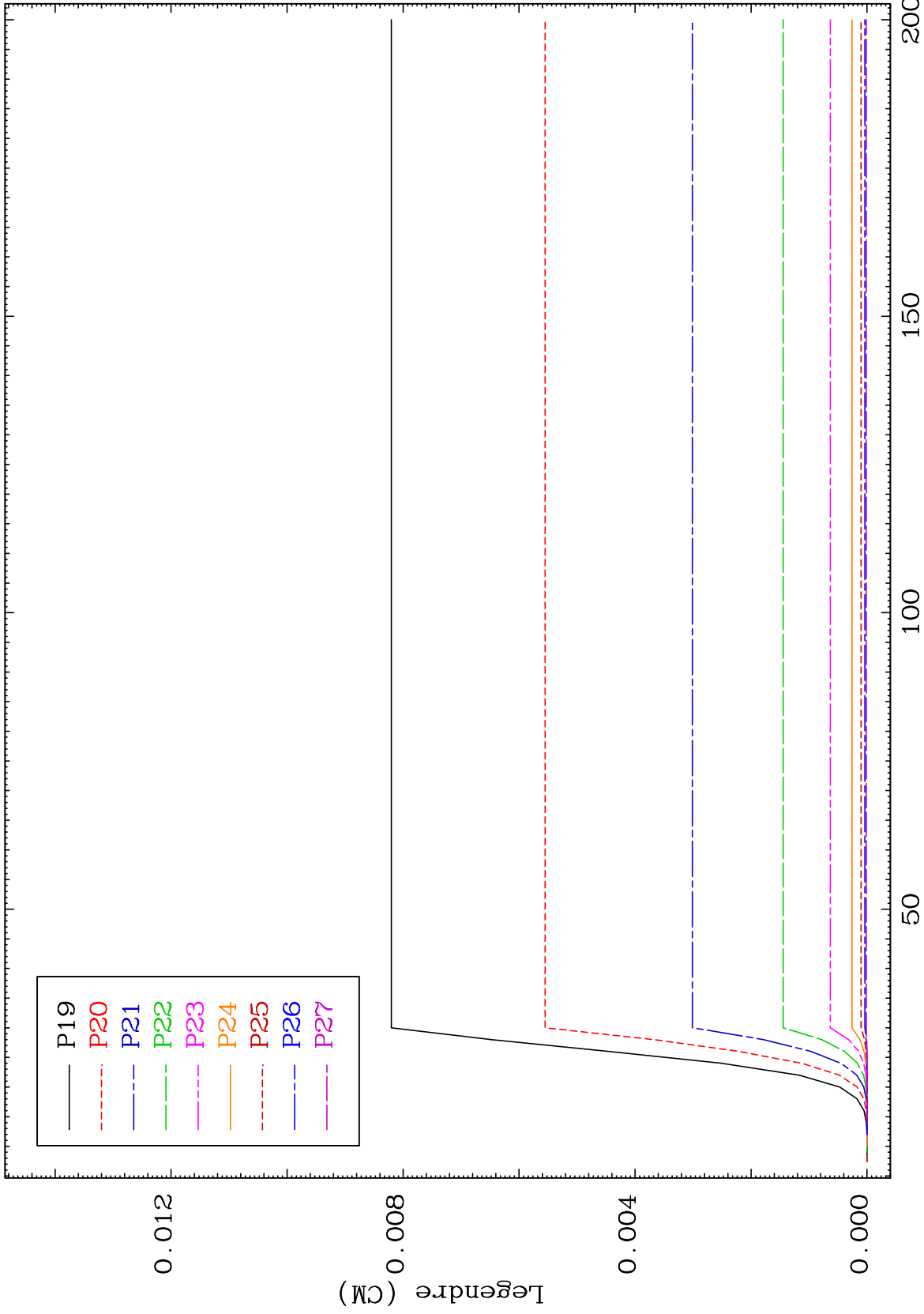
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

56-Ba-137



56-Ba-137

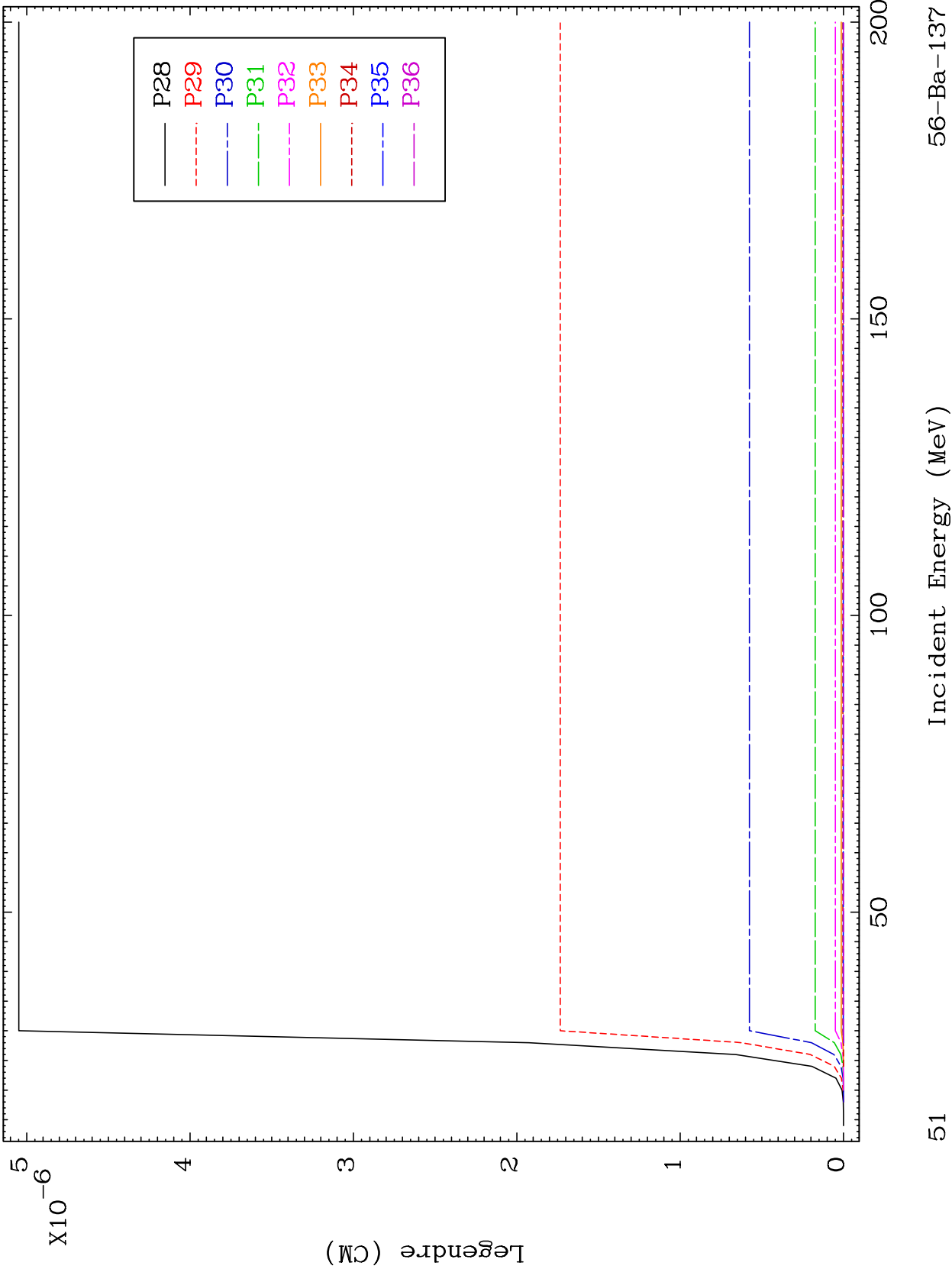
Incident Energy (MeV)

50

MAT 5646

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

56-Ba-137



51

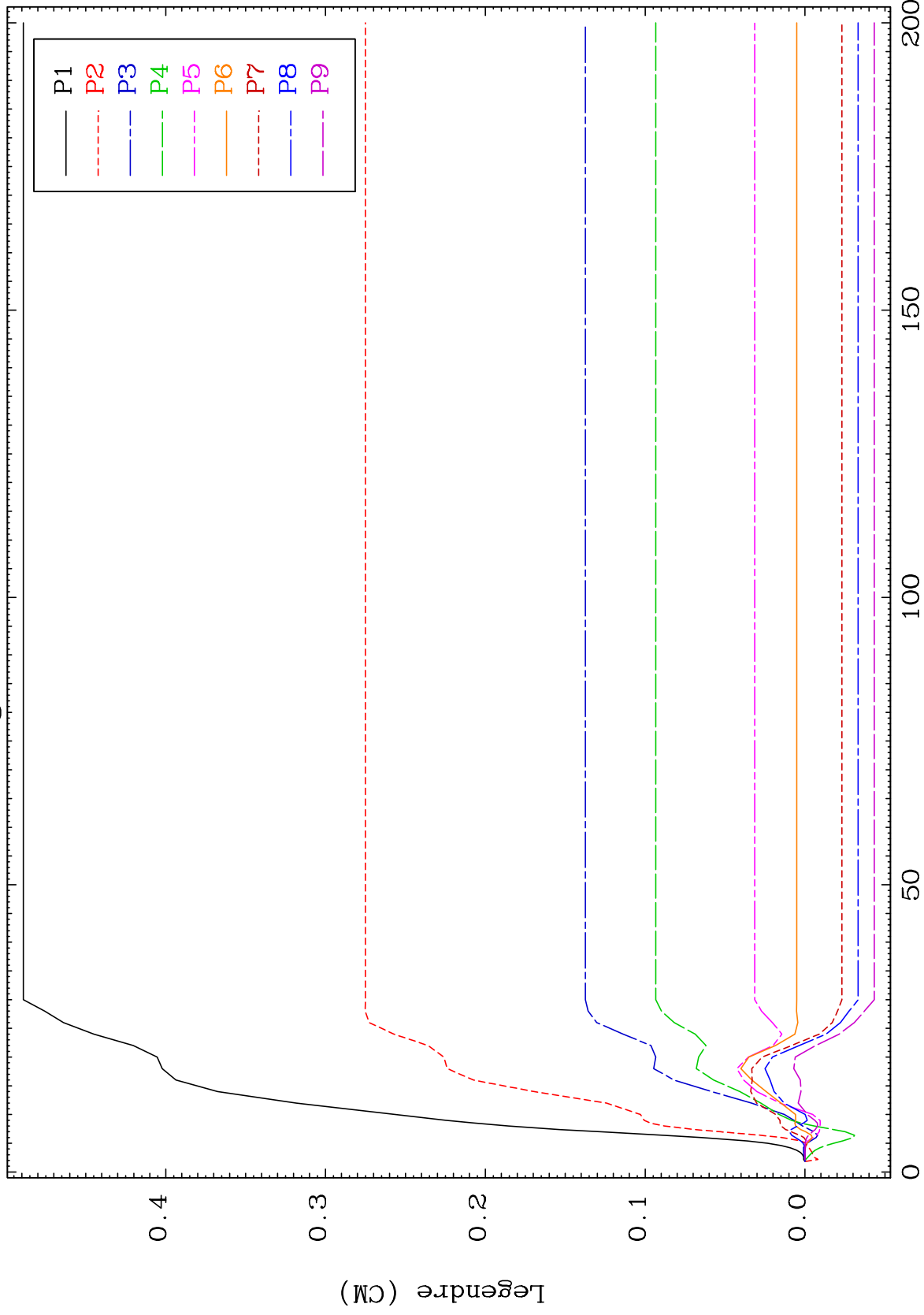
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

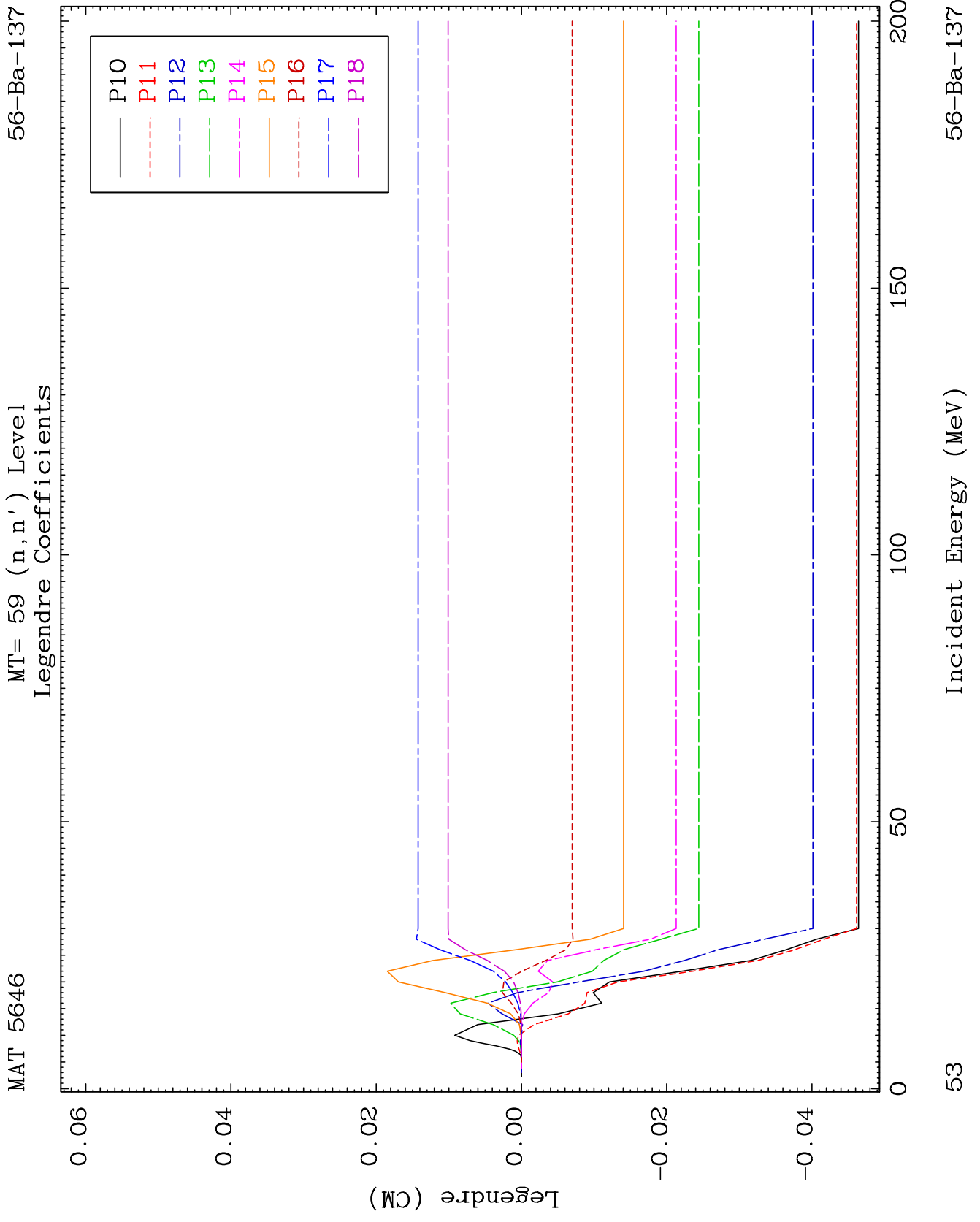
56-Ba-137



56-Ba-137

Incident Energy (MeV)

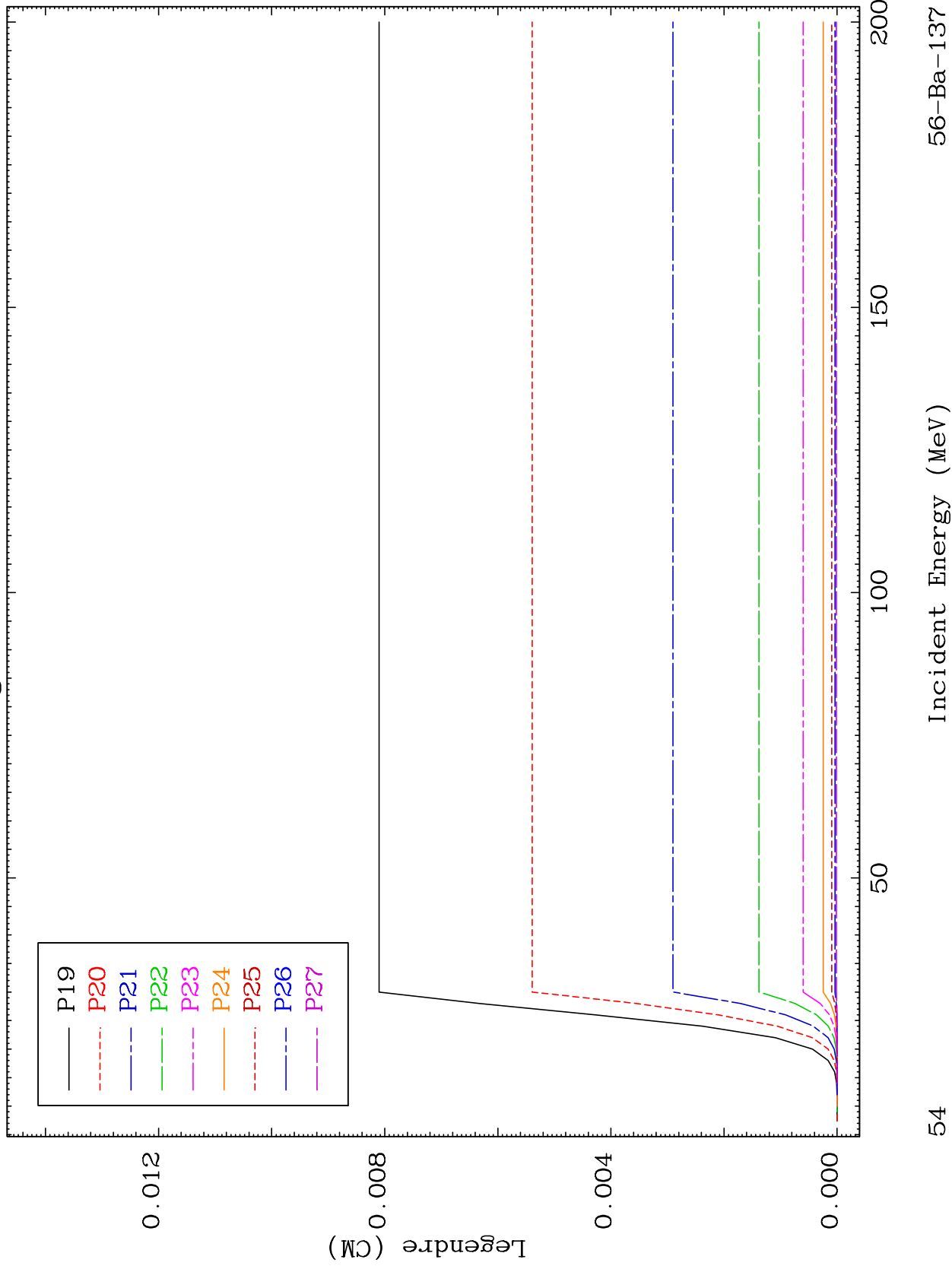
52



MAT 5646

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

56-Ba-137



54

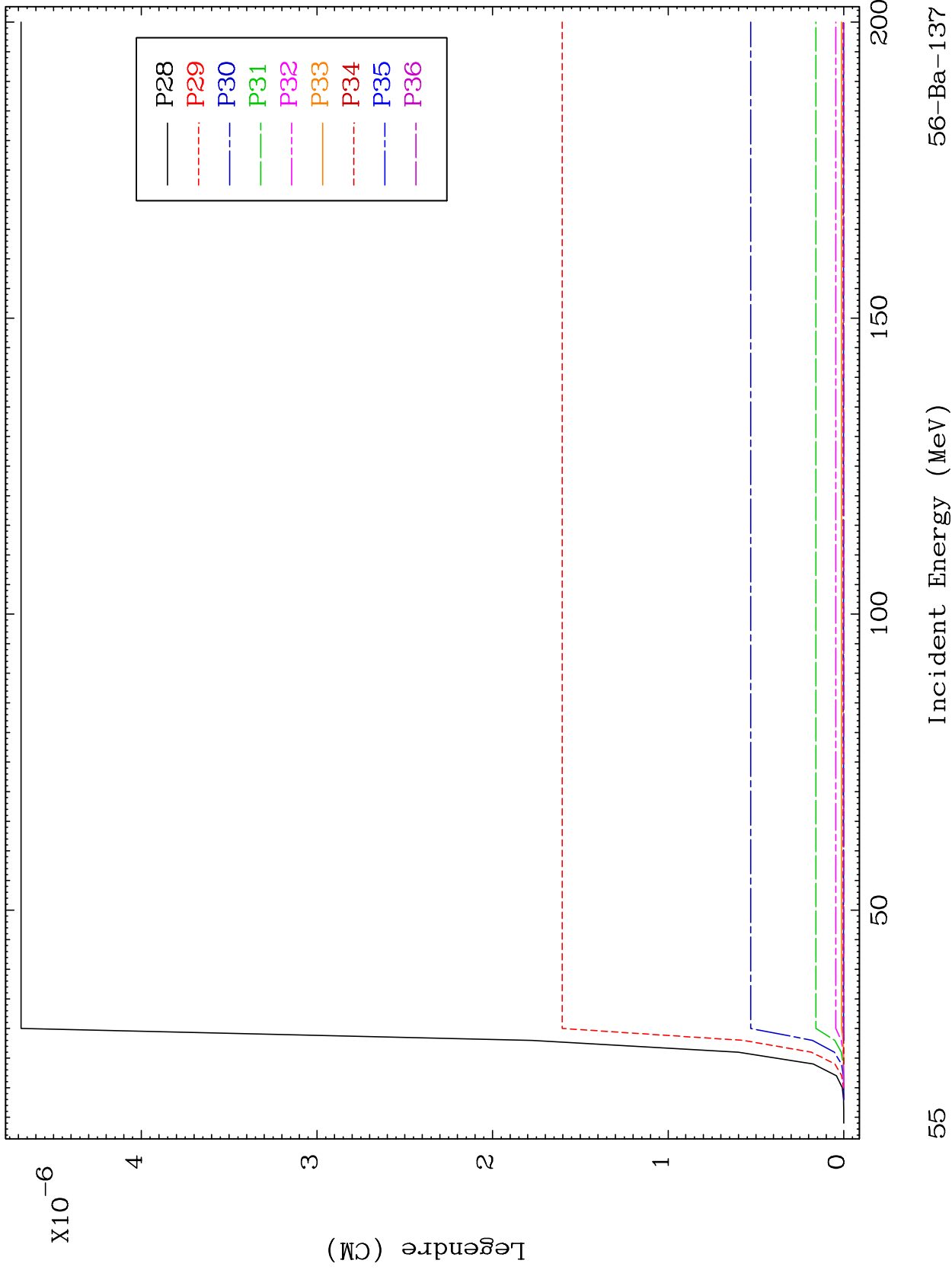
Incident Energy (MeV)

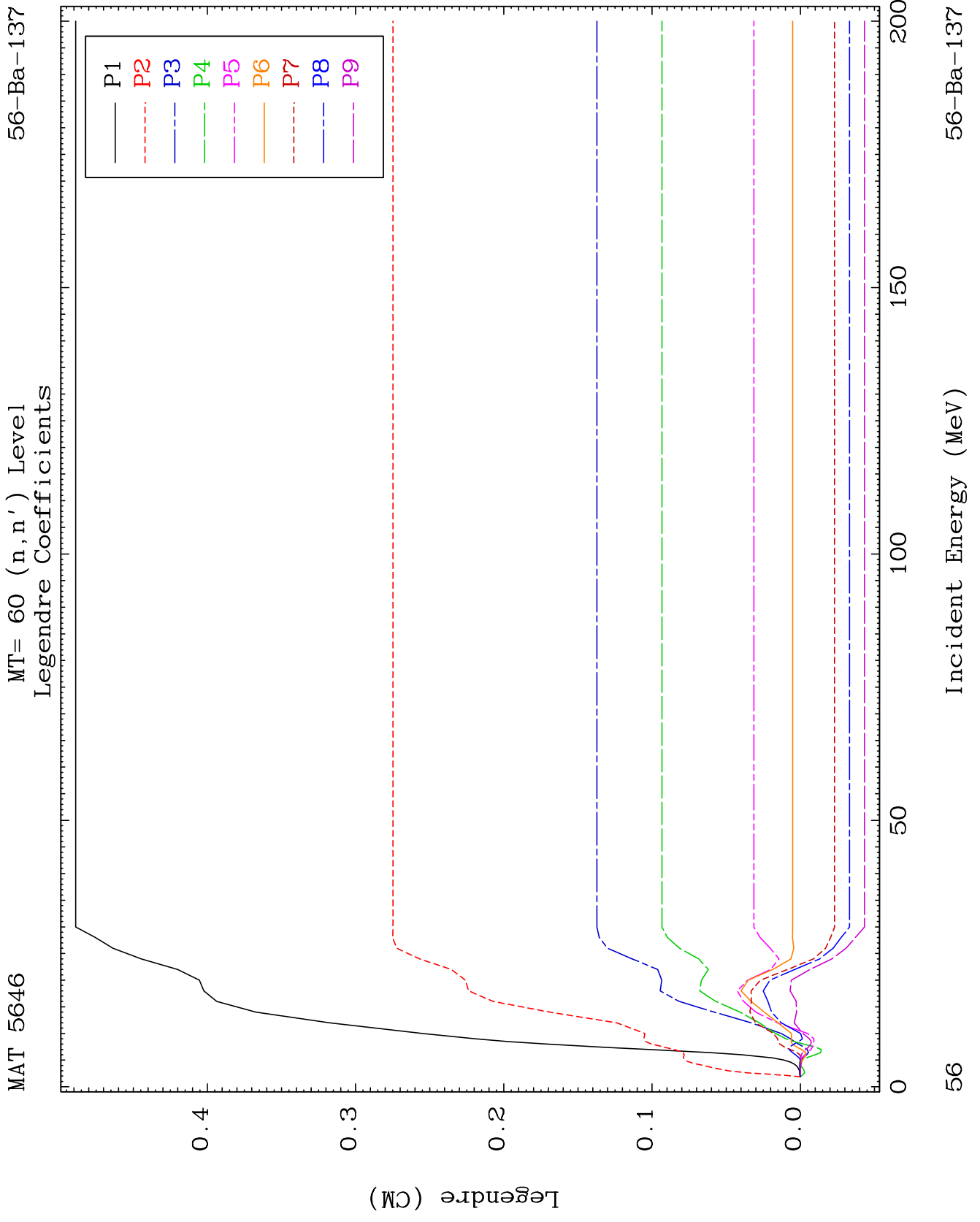
56-Ba-137

MAT 5646

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

56-Ba-137

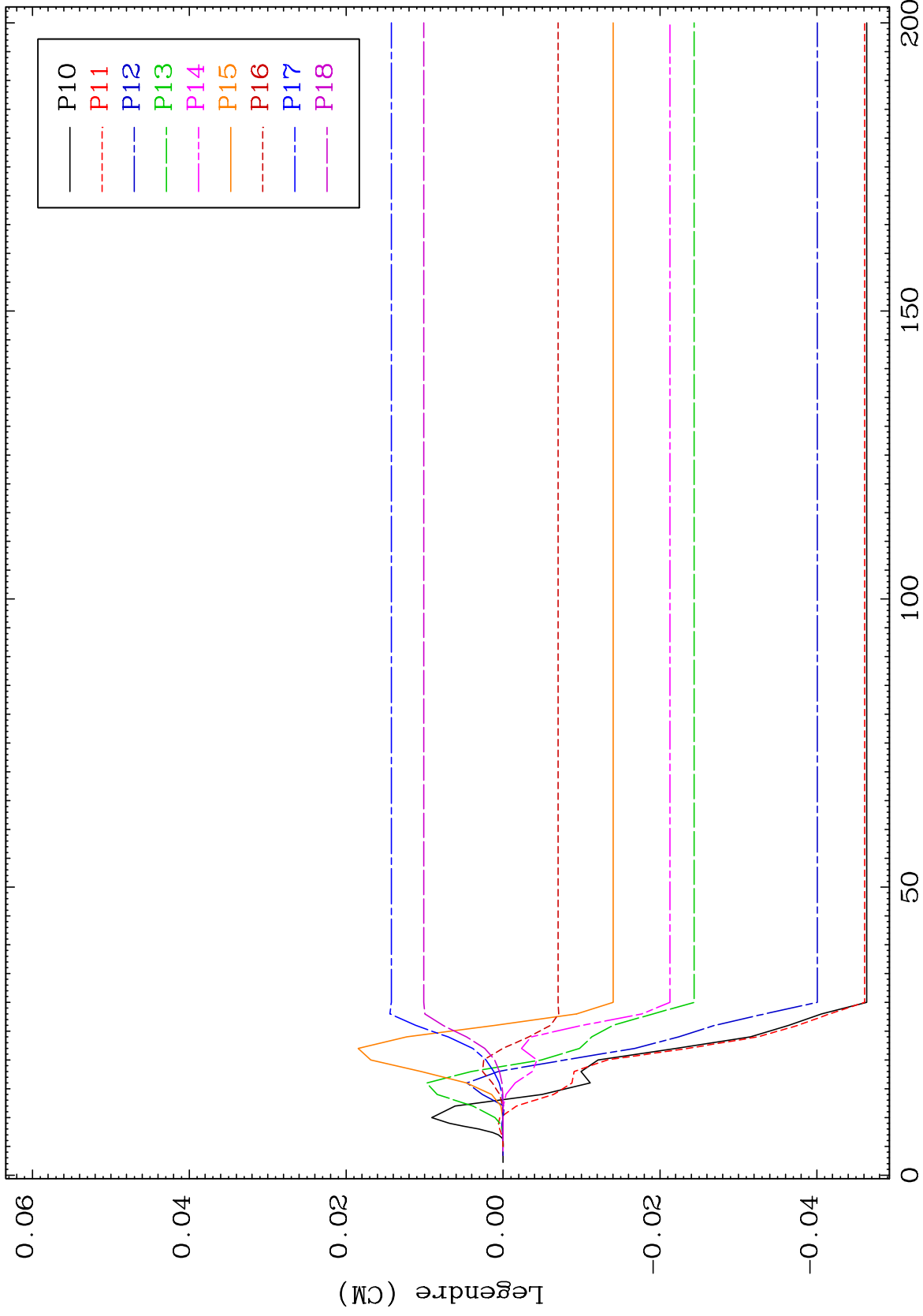




MAT 5646

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

56-Ba-137



57

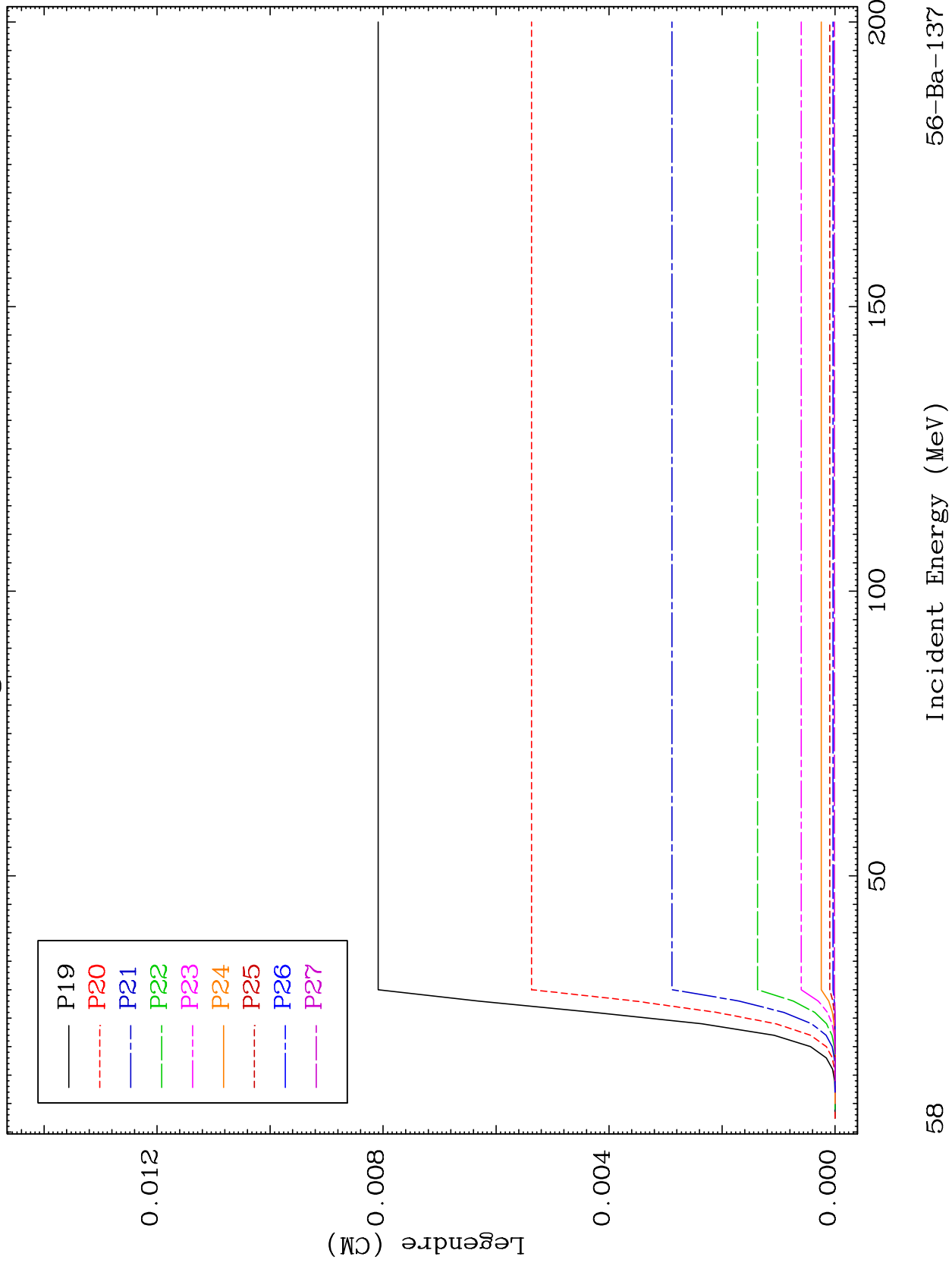
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

56-Ba-137



58

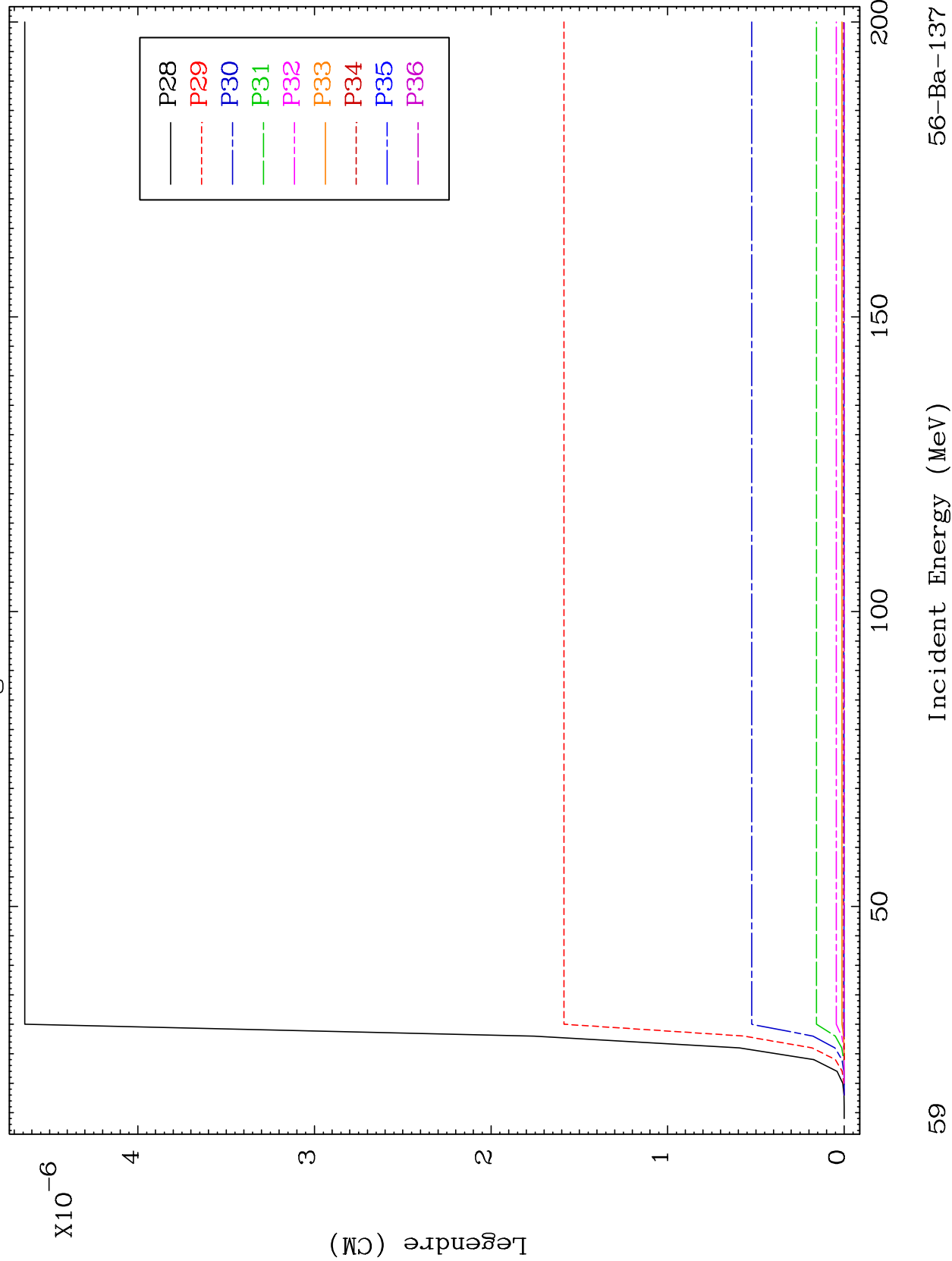
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

56-Ba-137



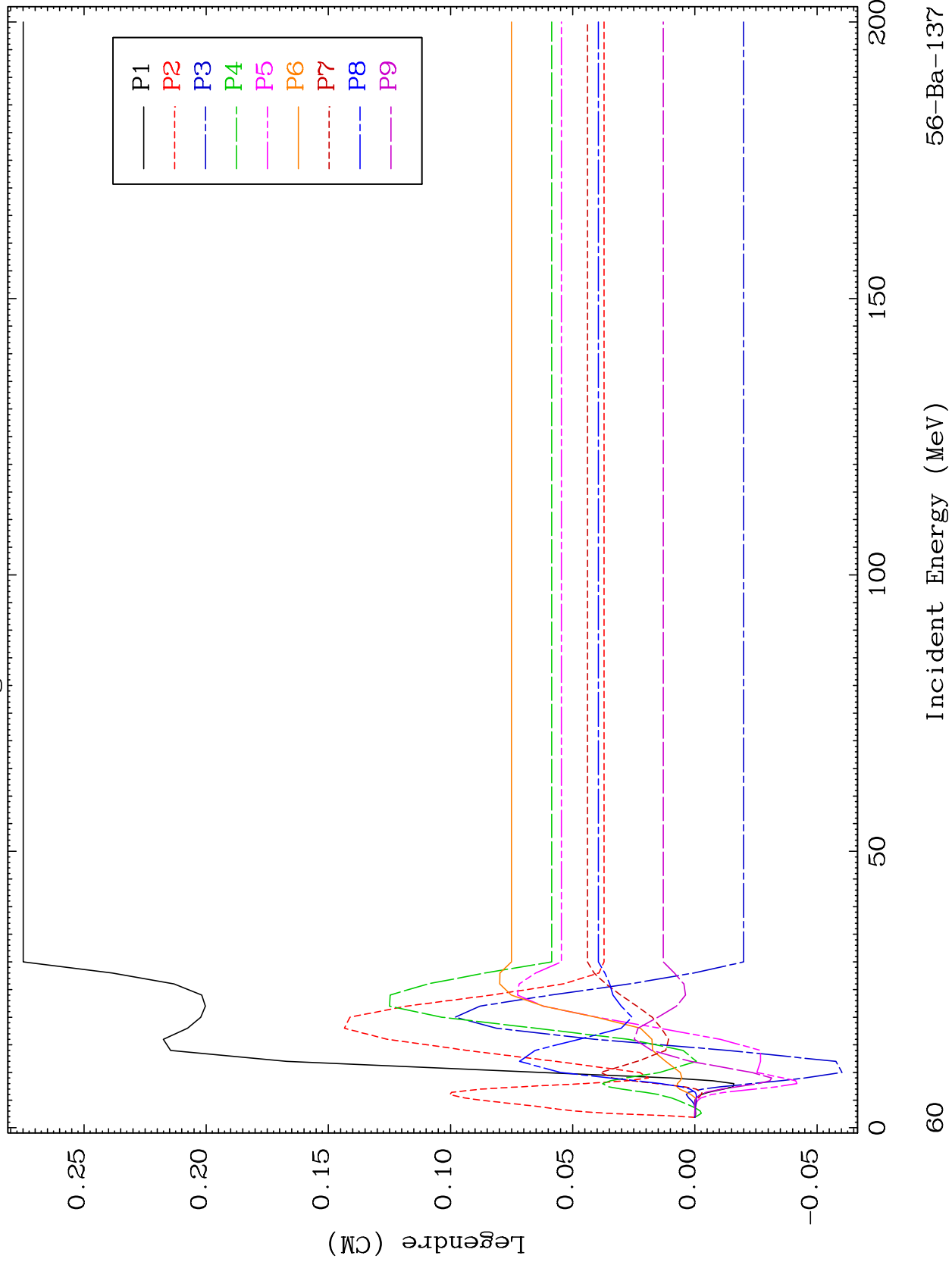
59

56-Ba-137

MAT 5646

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

56-Ba-137



56-Ba-137

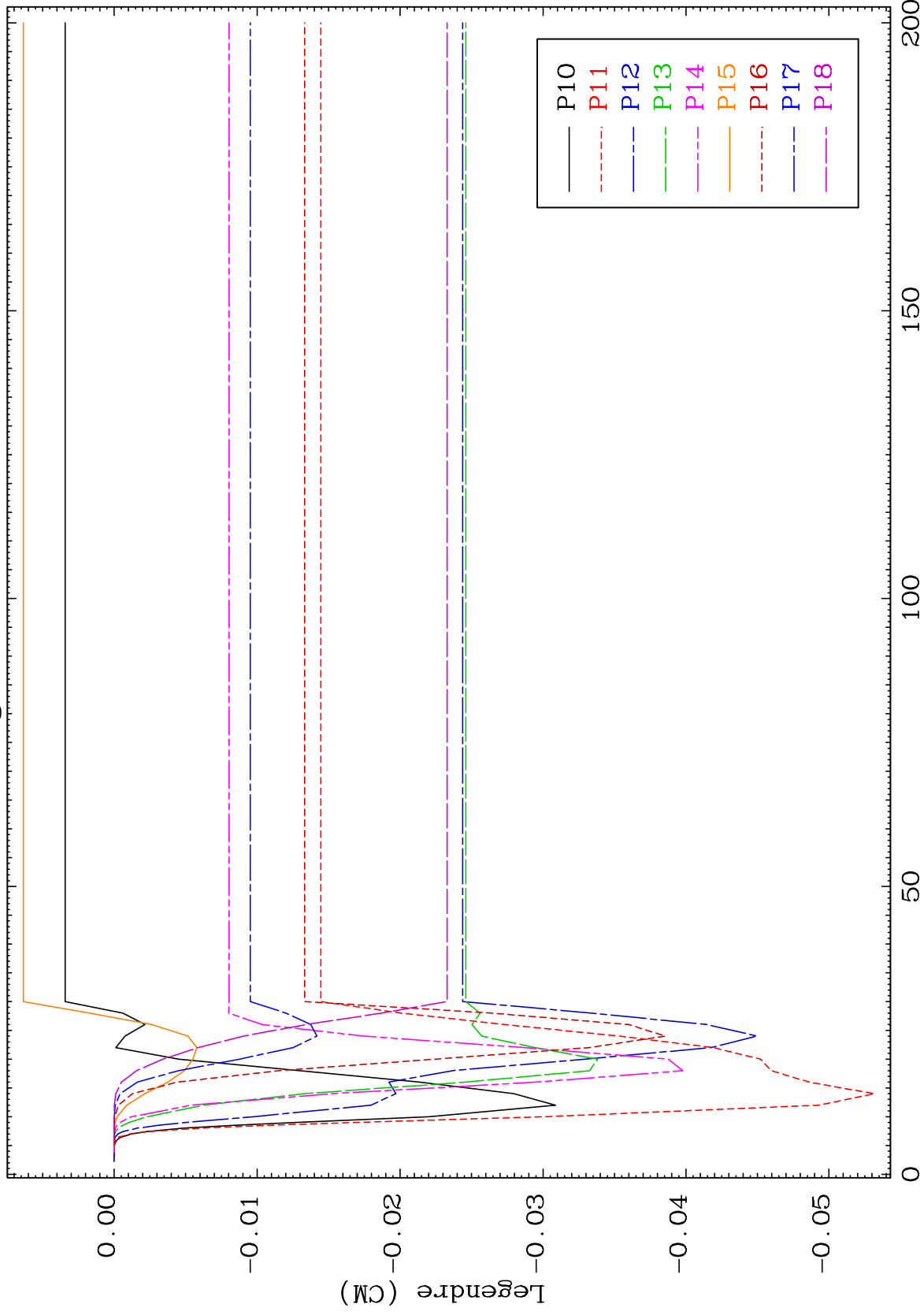
Incident Energy (MeV)

60

MAT 5646

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

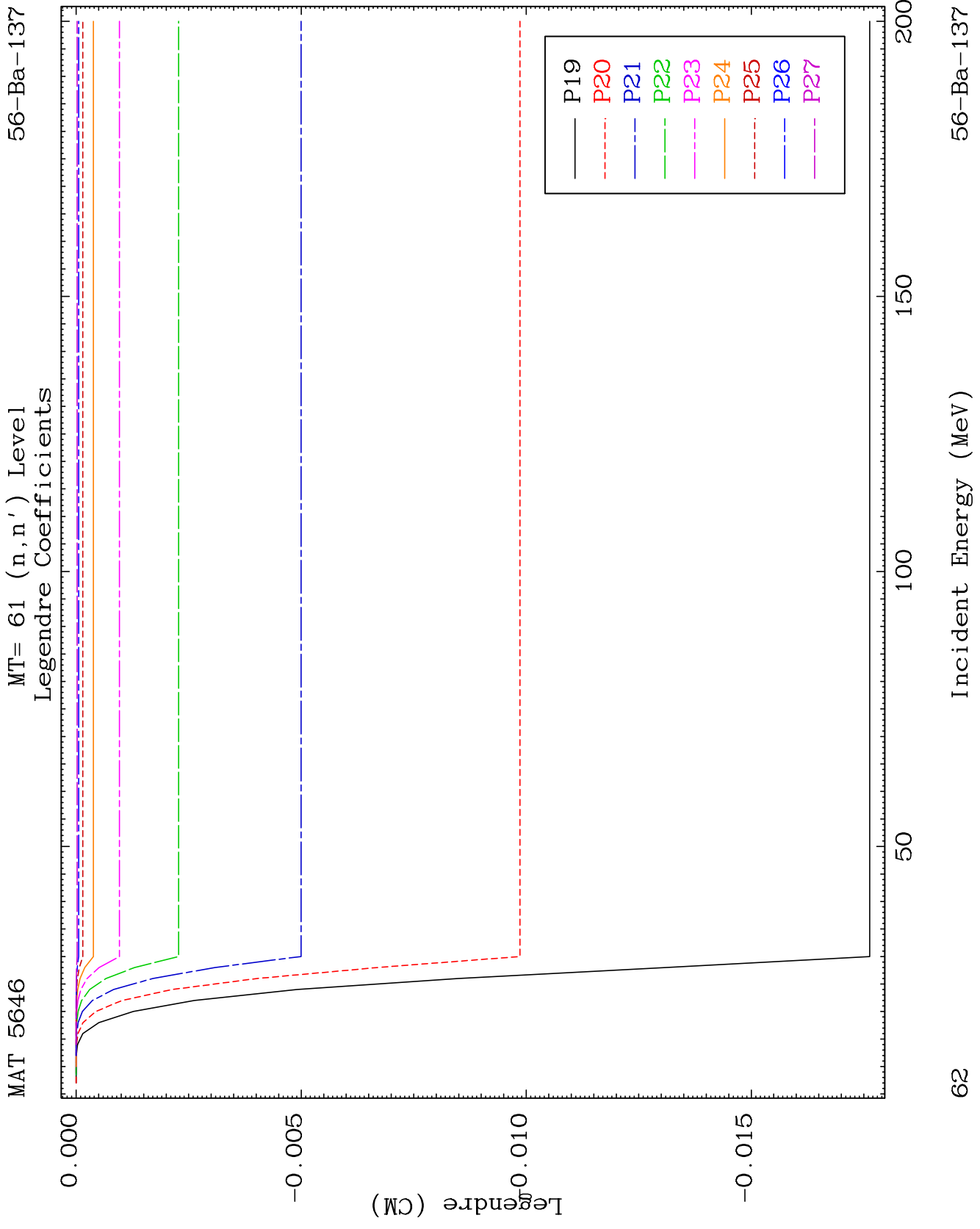
56-Ba-137

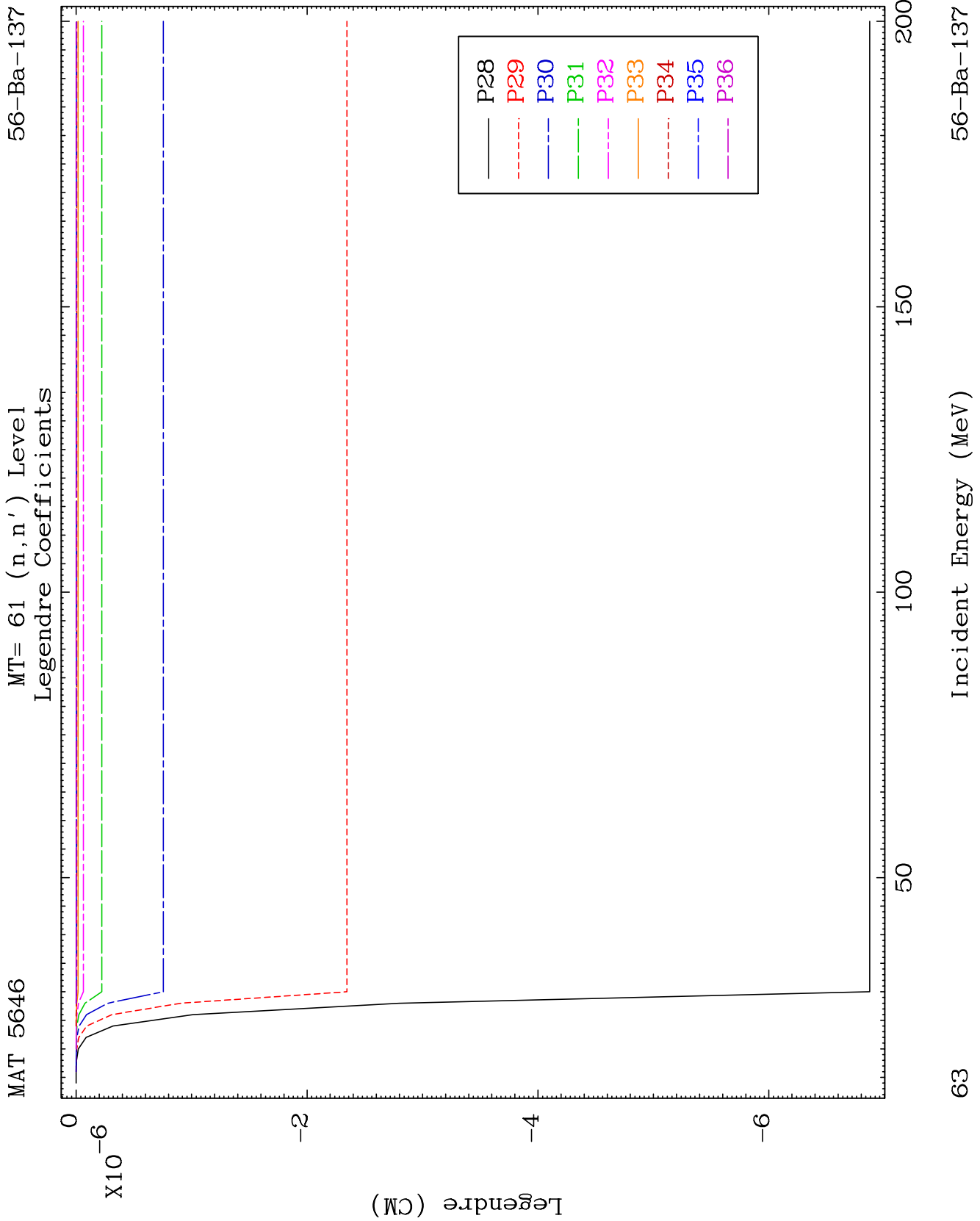


61

Incident Energy (MeV)

56-Ba-137

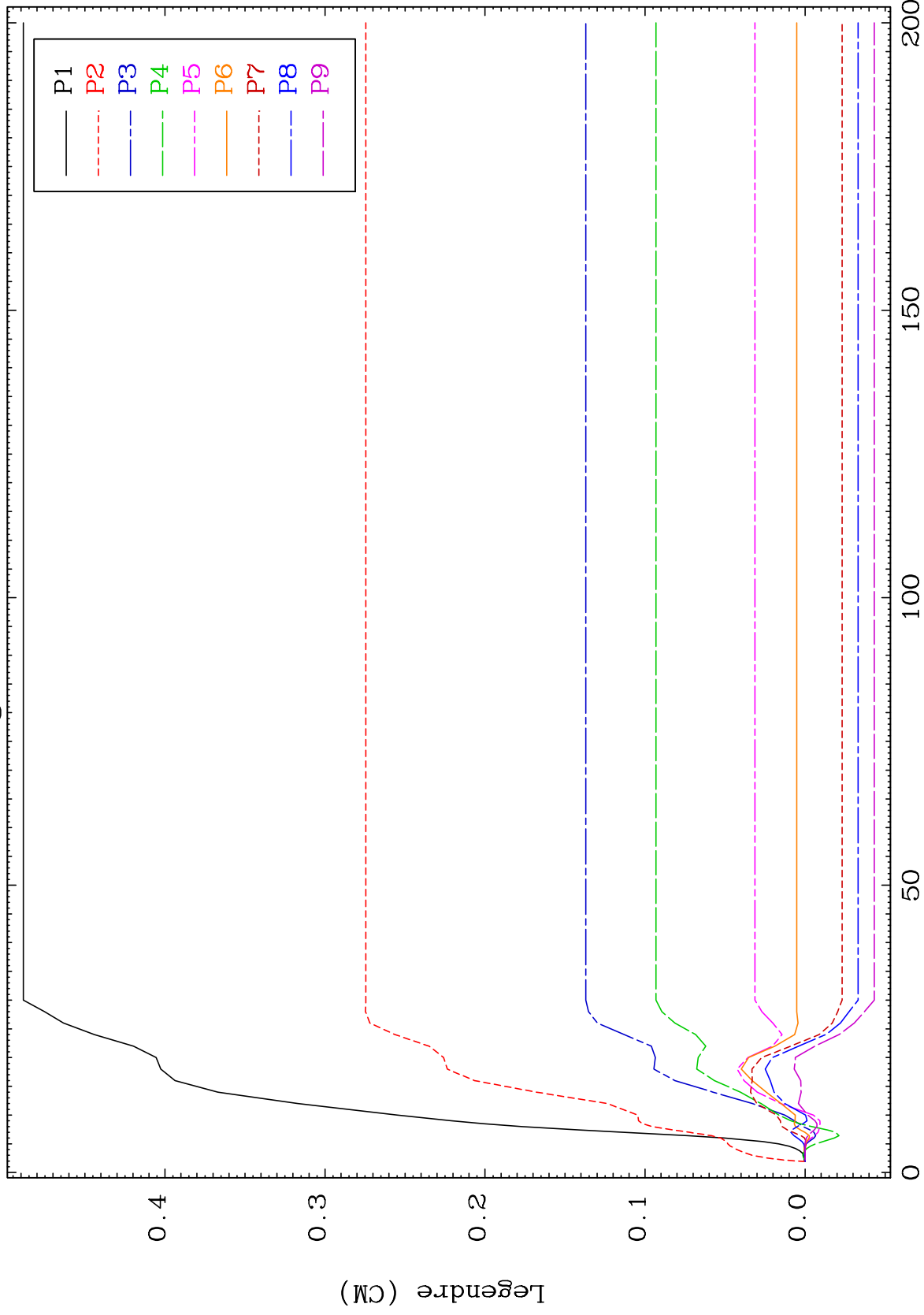




MAT 5646

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

56-Ba-137



64

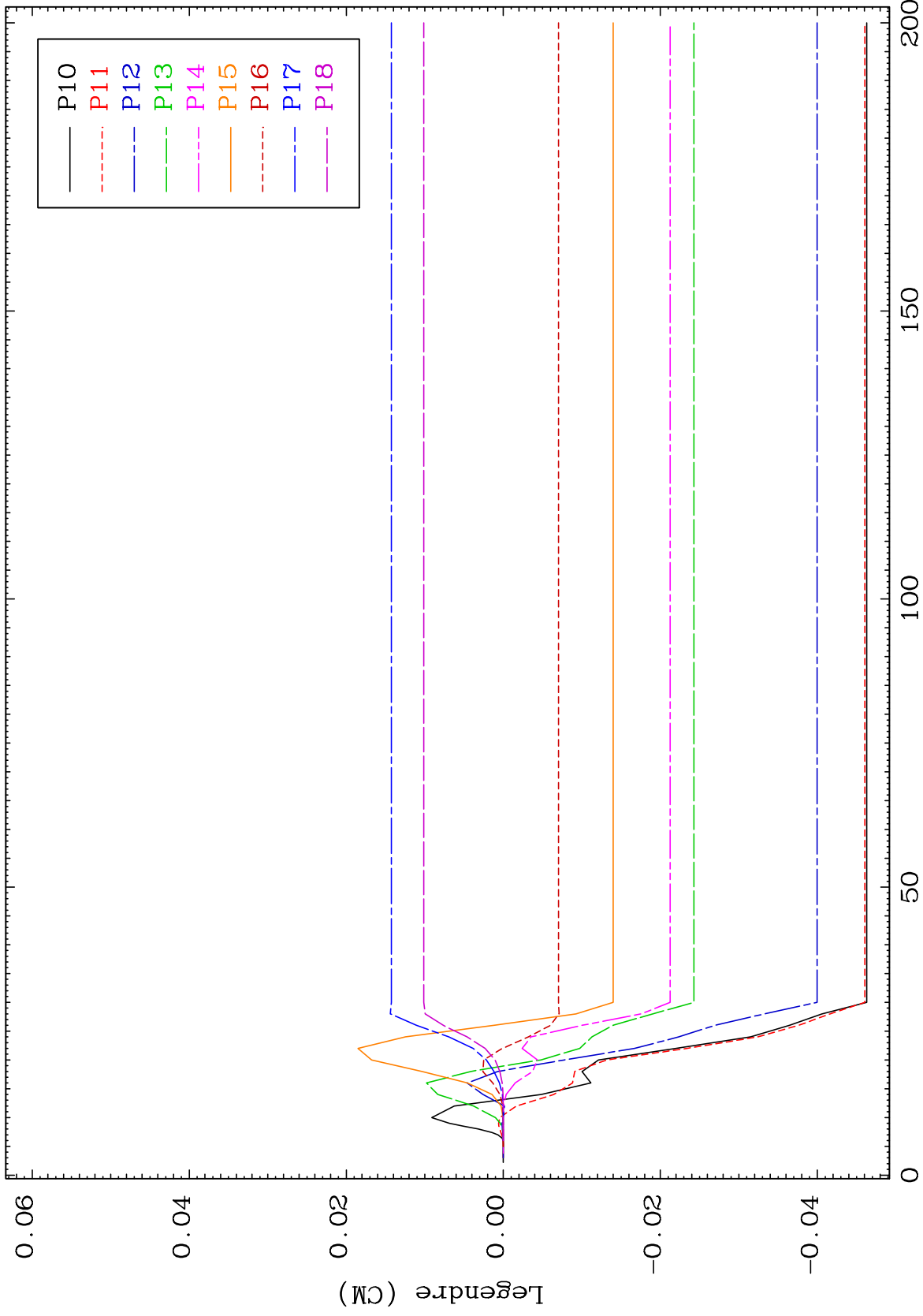
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

56-Ba-137



65

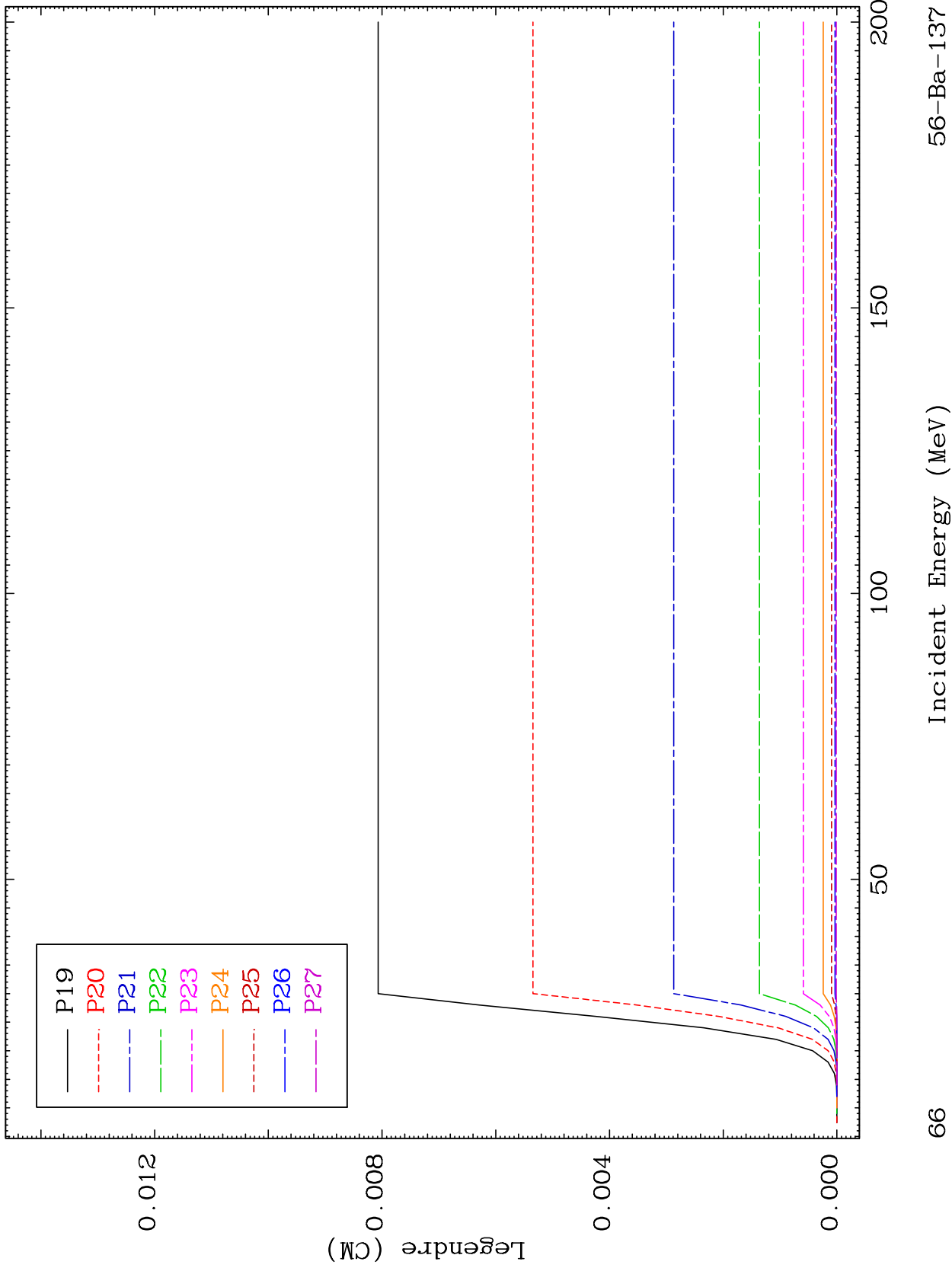
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

56-Ba-137



66

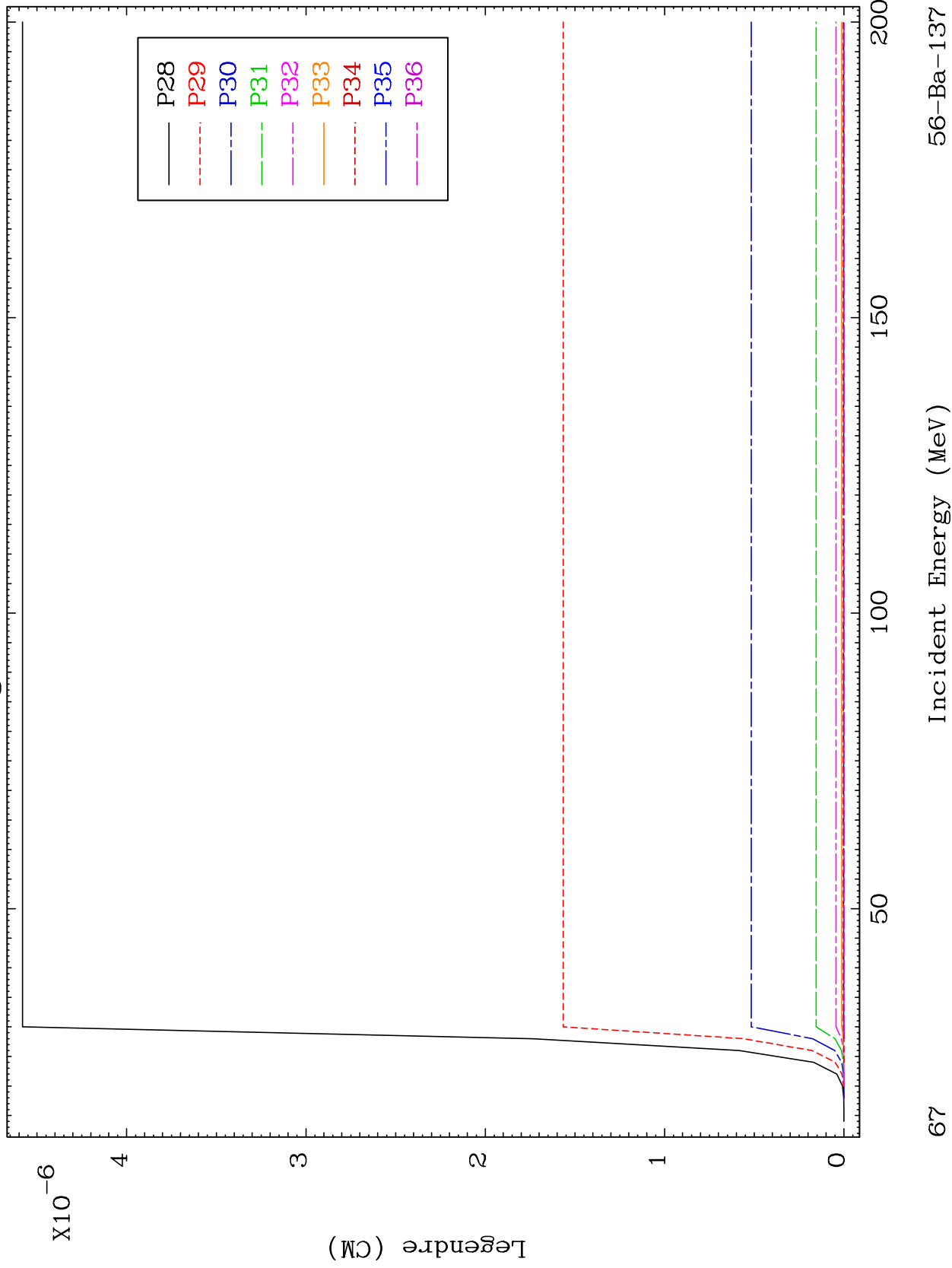
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

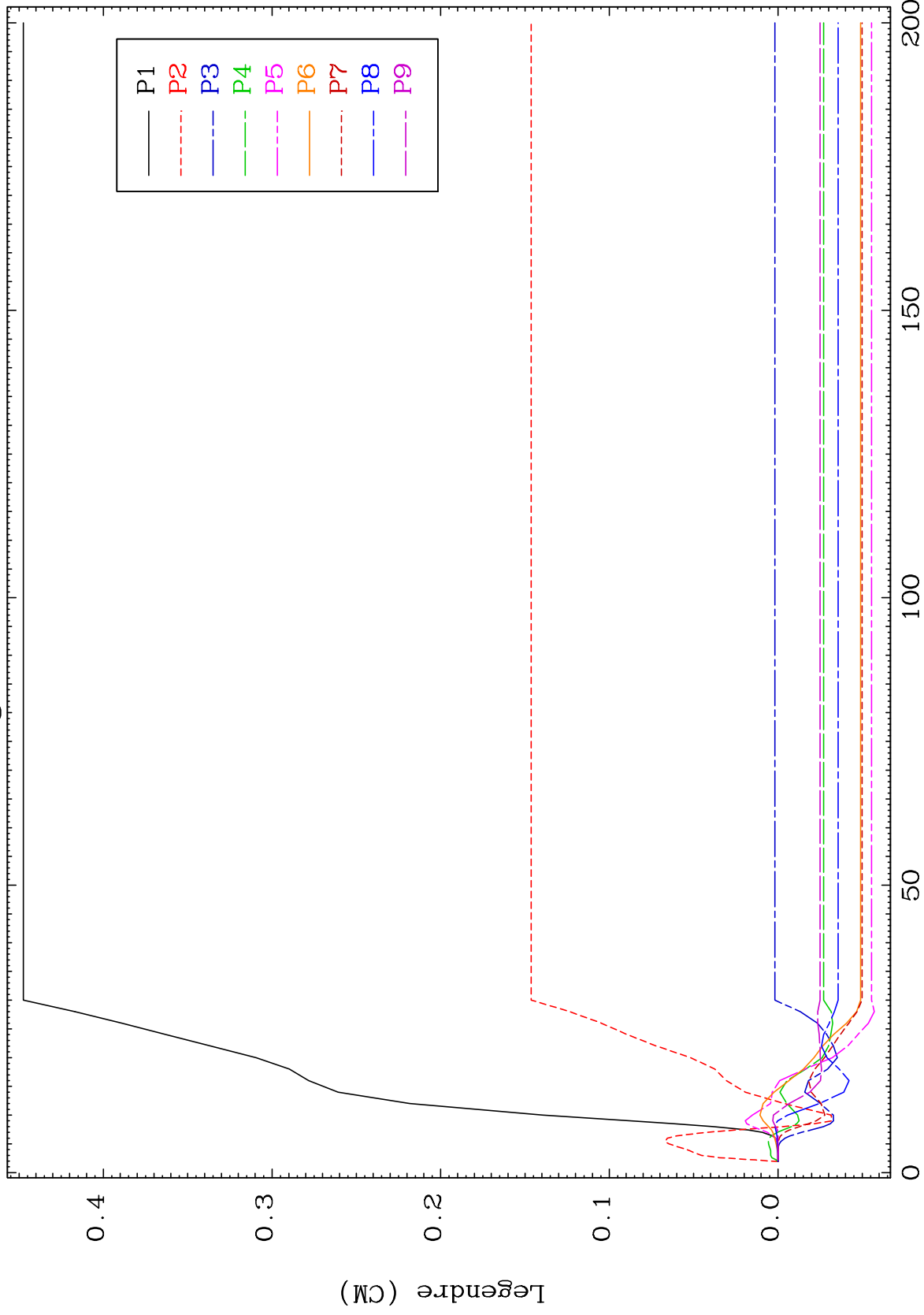
56-Ba-137



MAT 5646

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

56-Ba-137



56-Ba-137

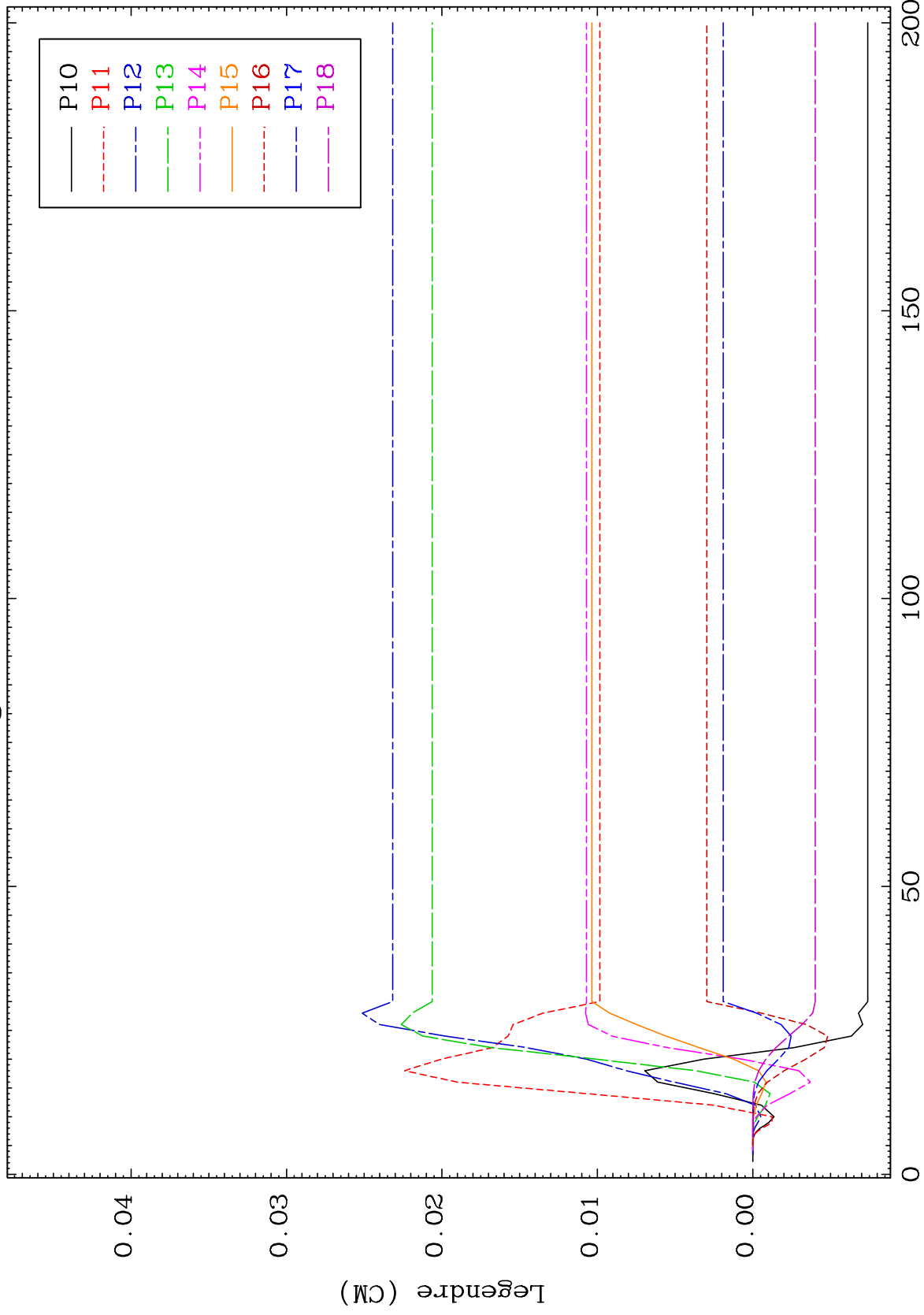
Incident Energy (MeV)

68

MAT 5646

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

56-Ba-137



69

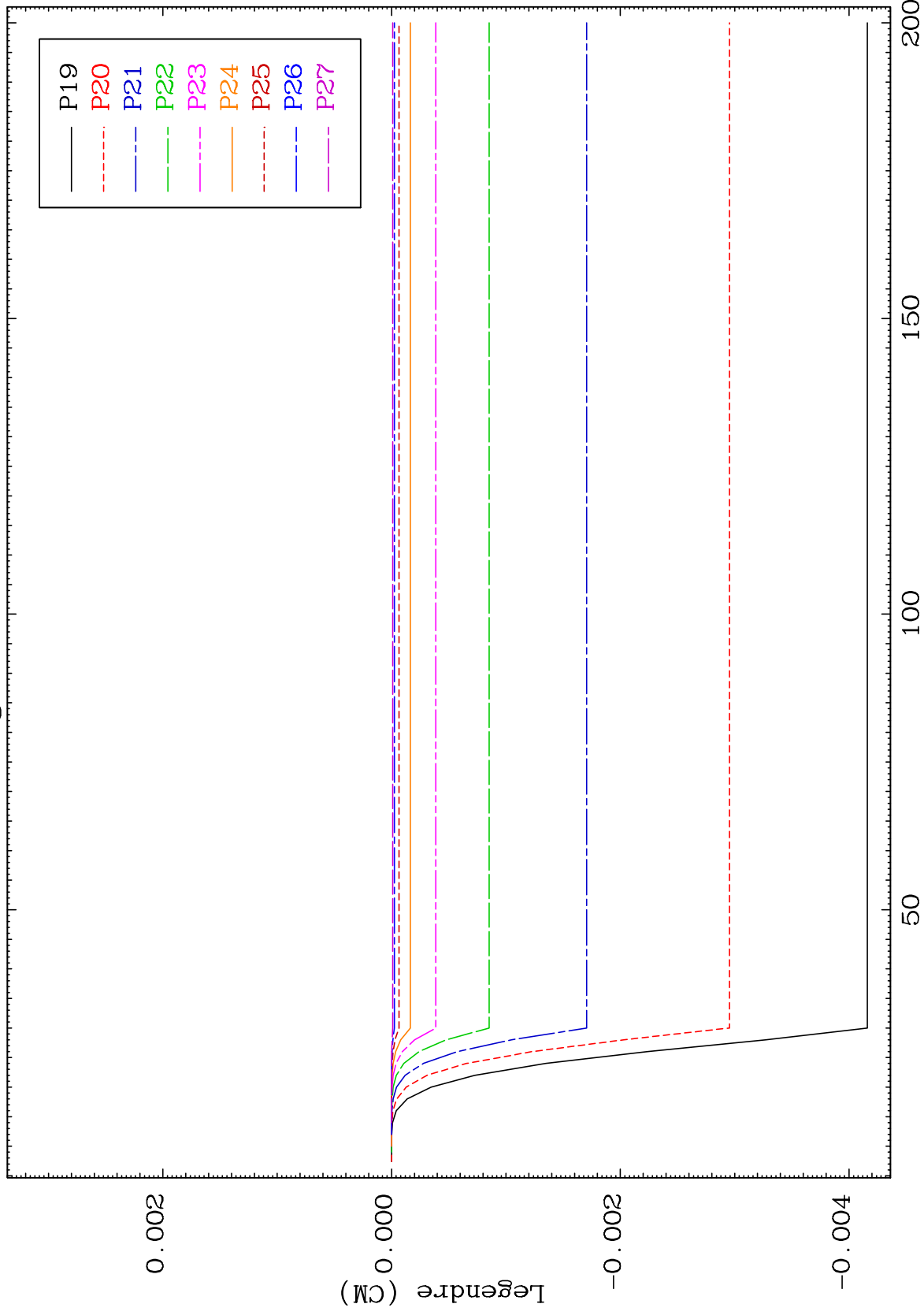
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

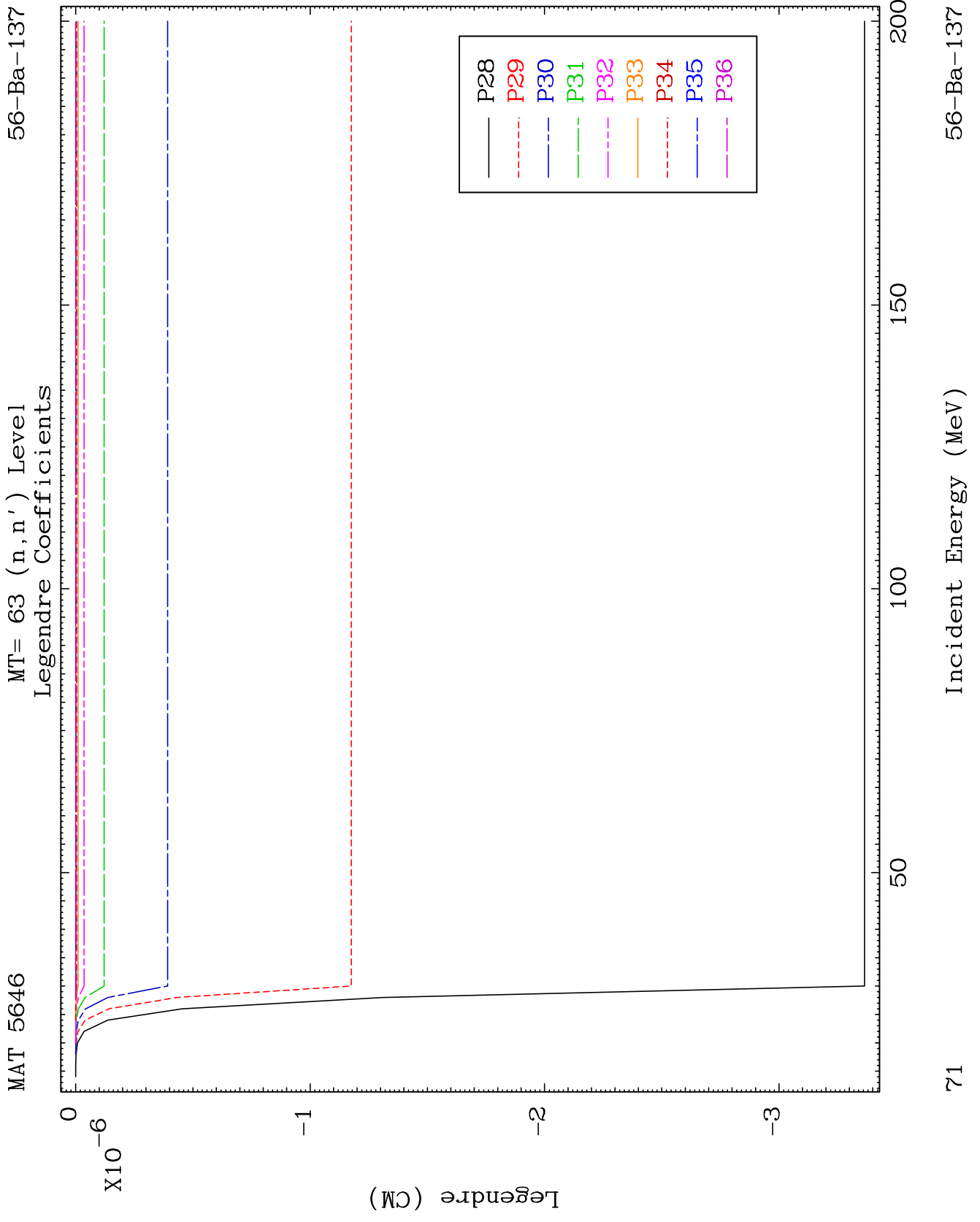
56-Ba-137



70

Incident Energy (MeV)

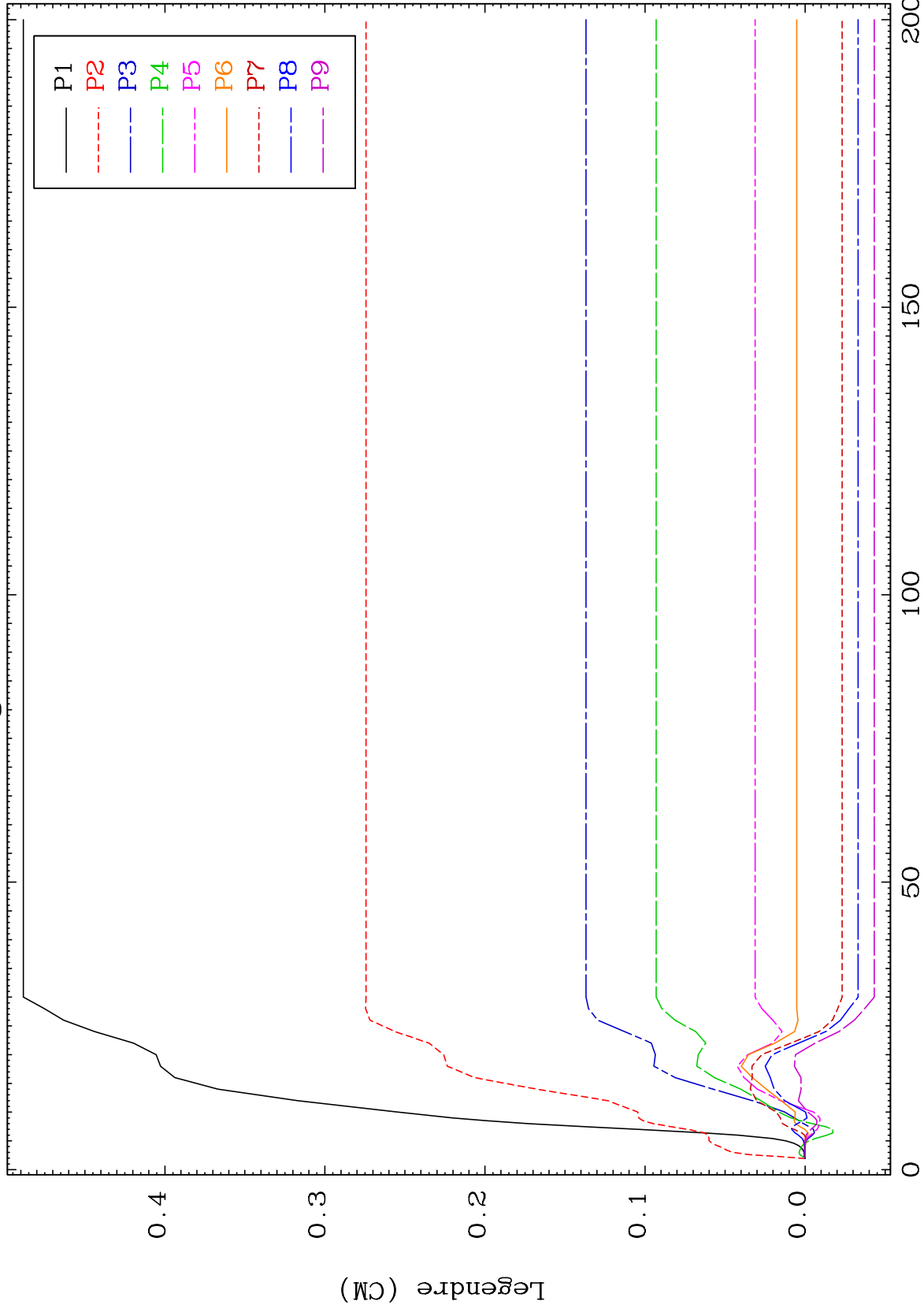
56-Ba-137



MAT 5646

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

56-Ba-137



72

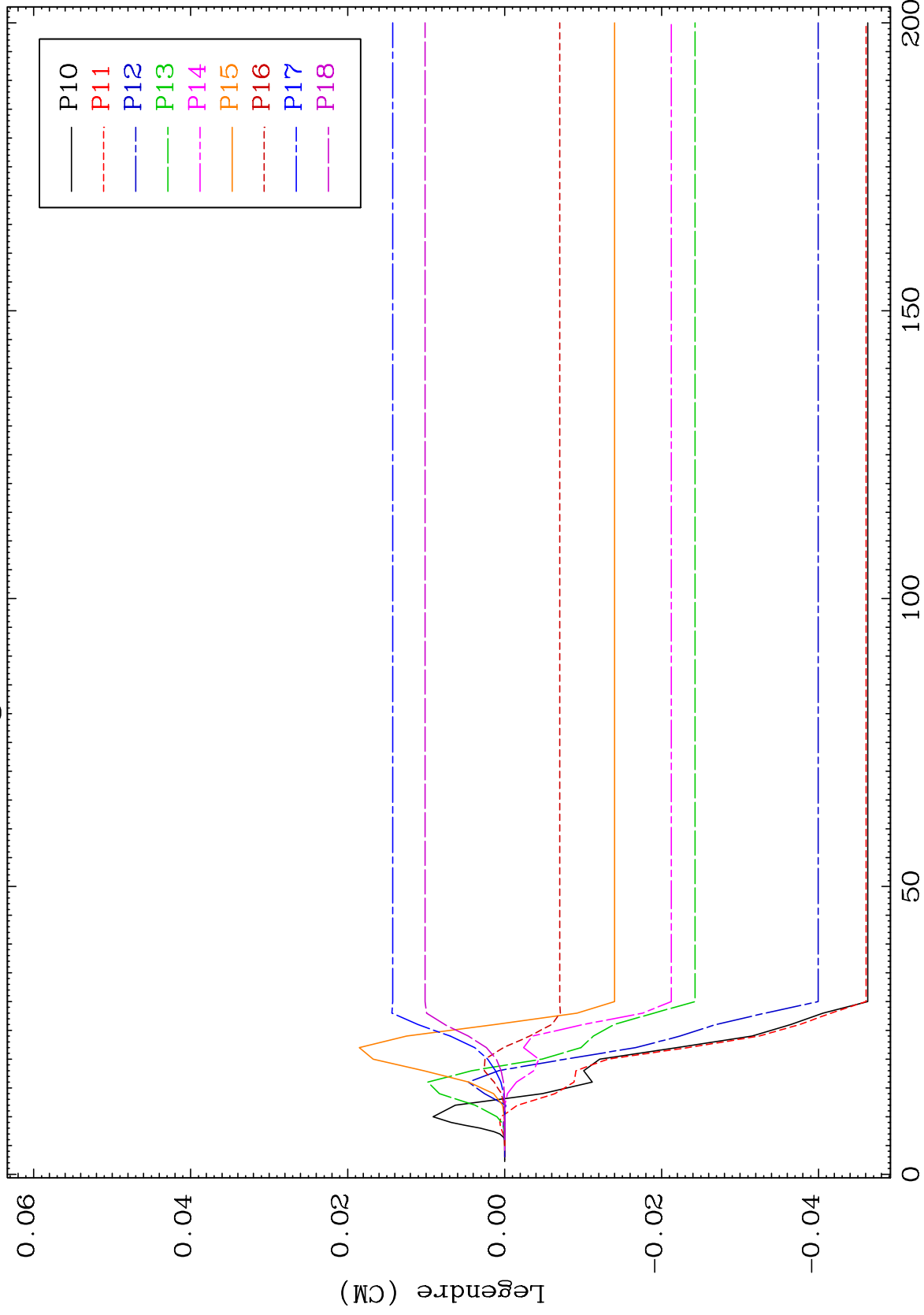
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

56-Ba-137



73

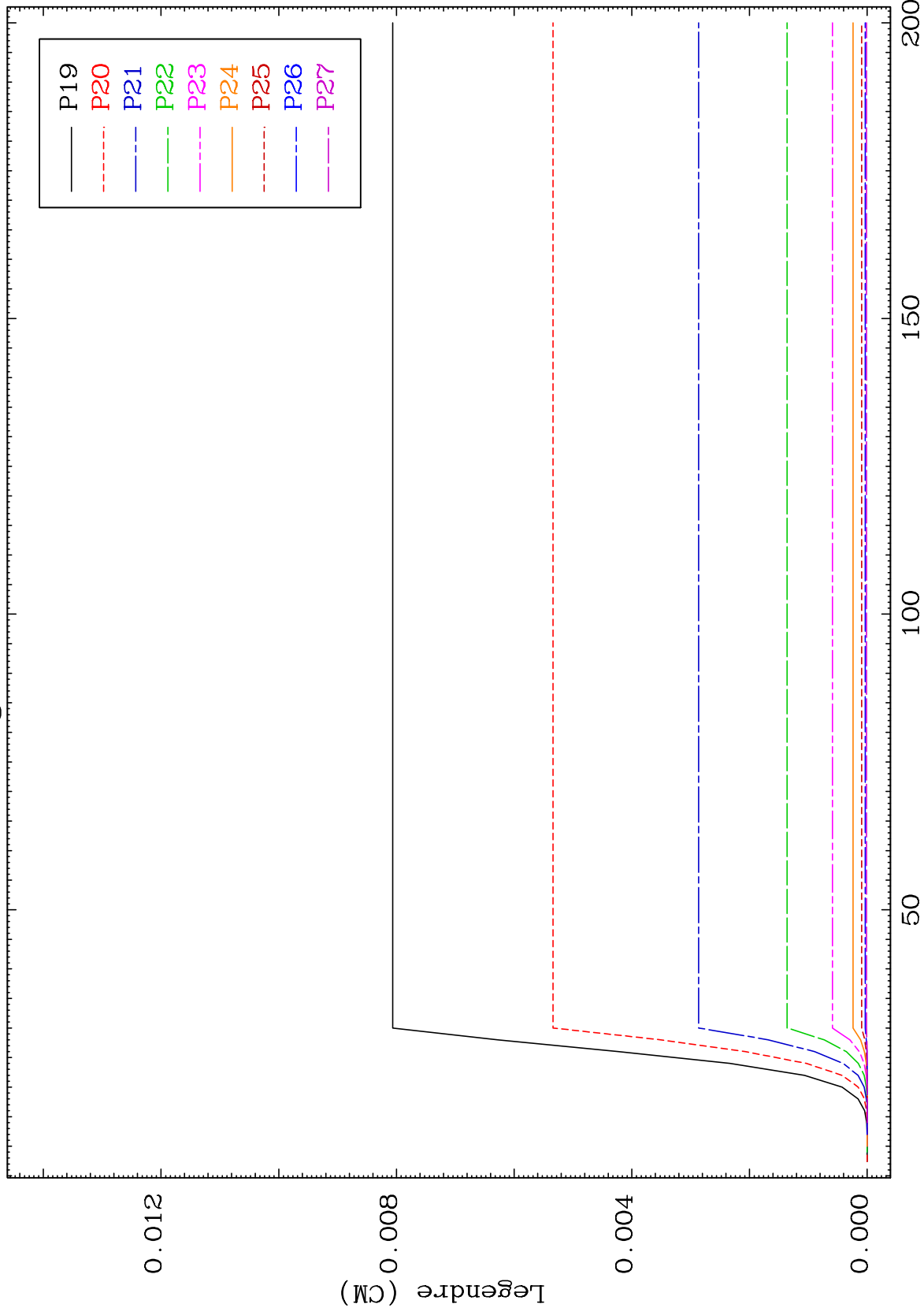
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

56-Ba-137



74

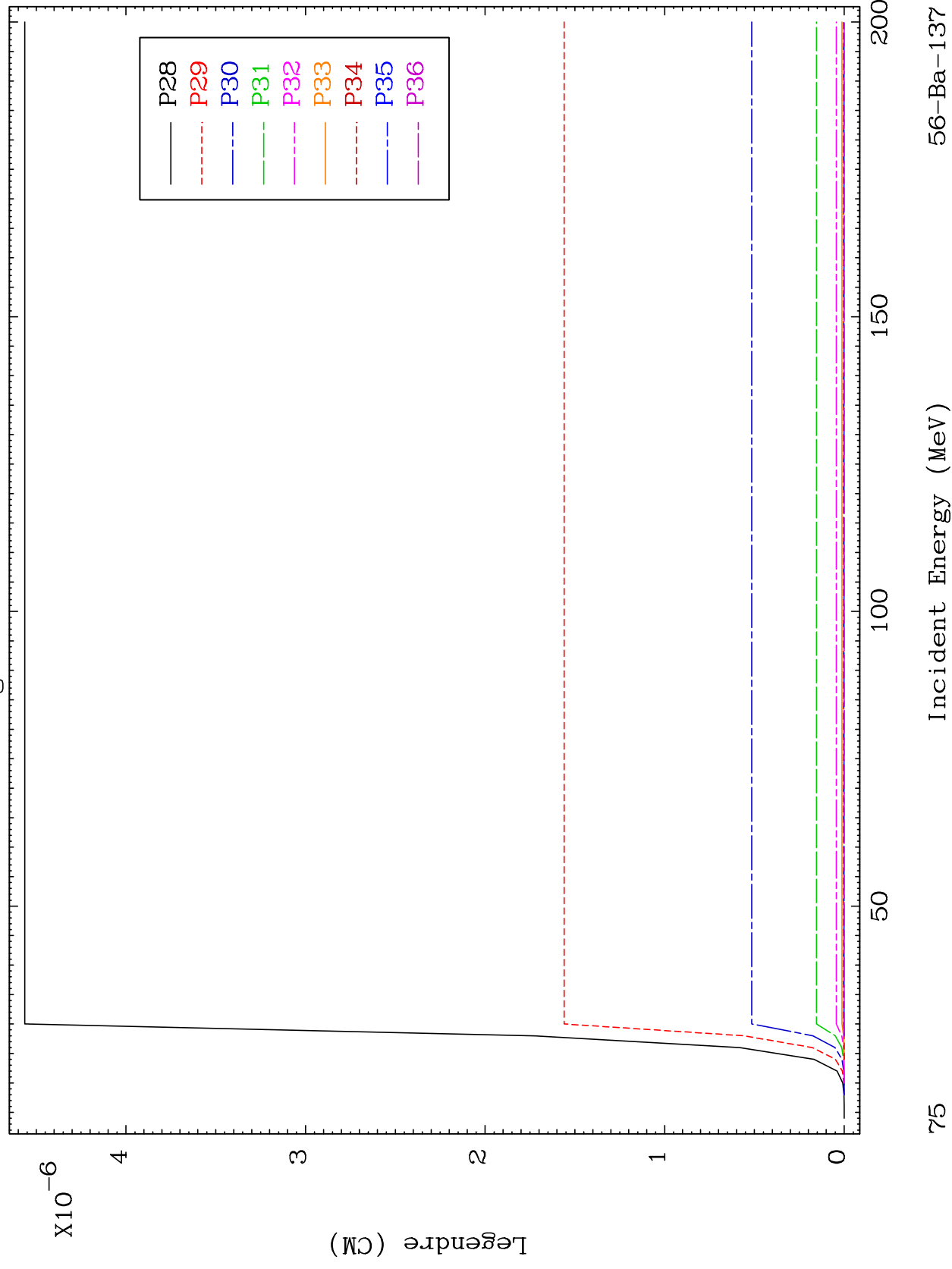
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

56-Ba-137



75

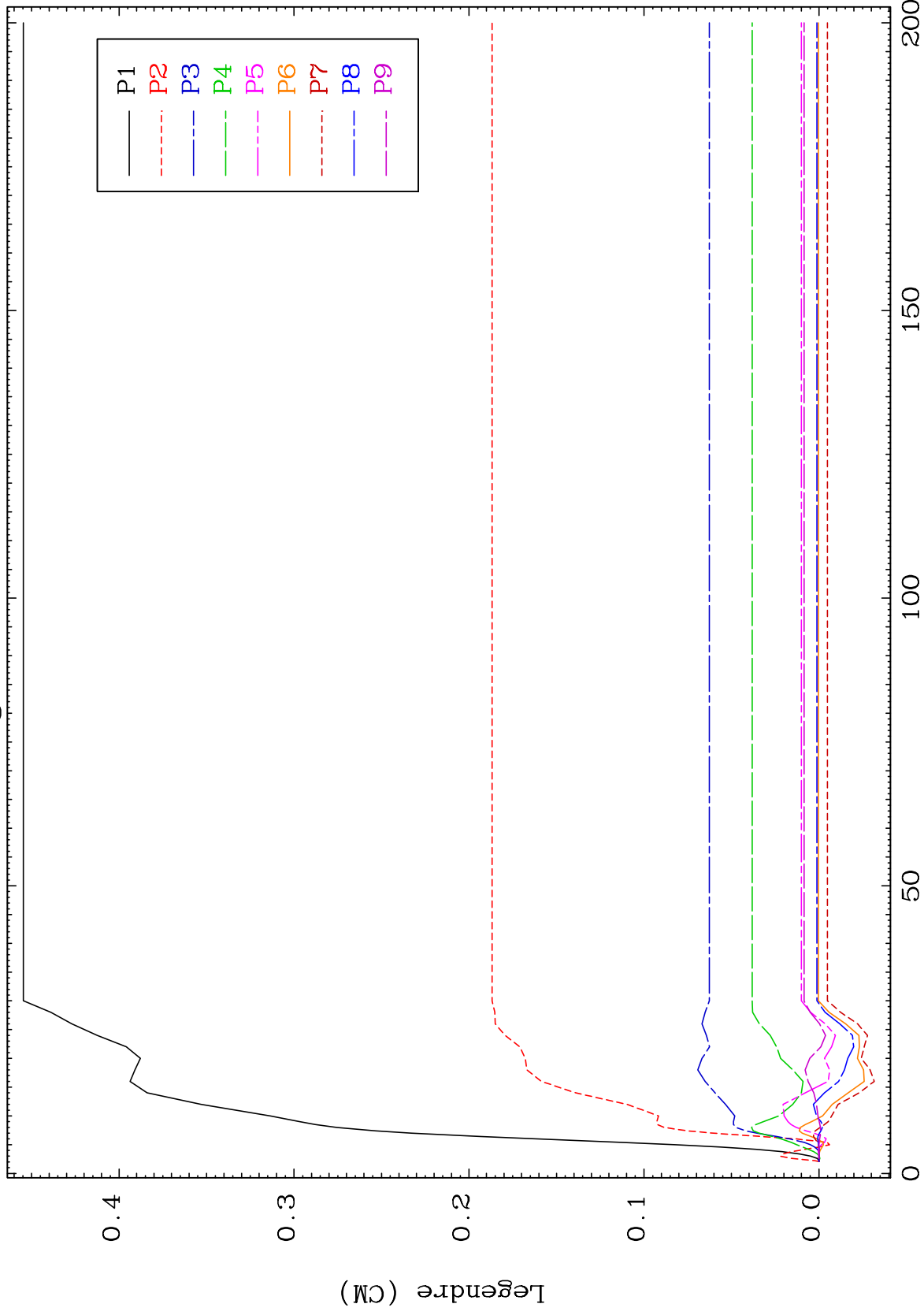
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

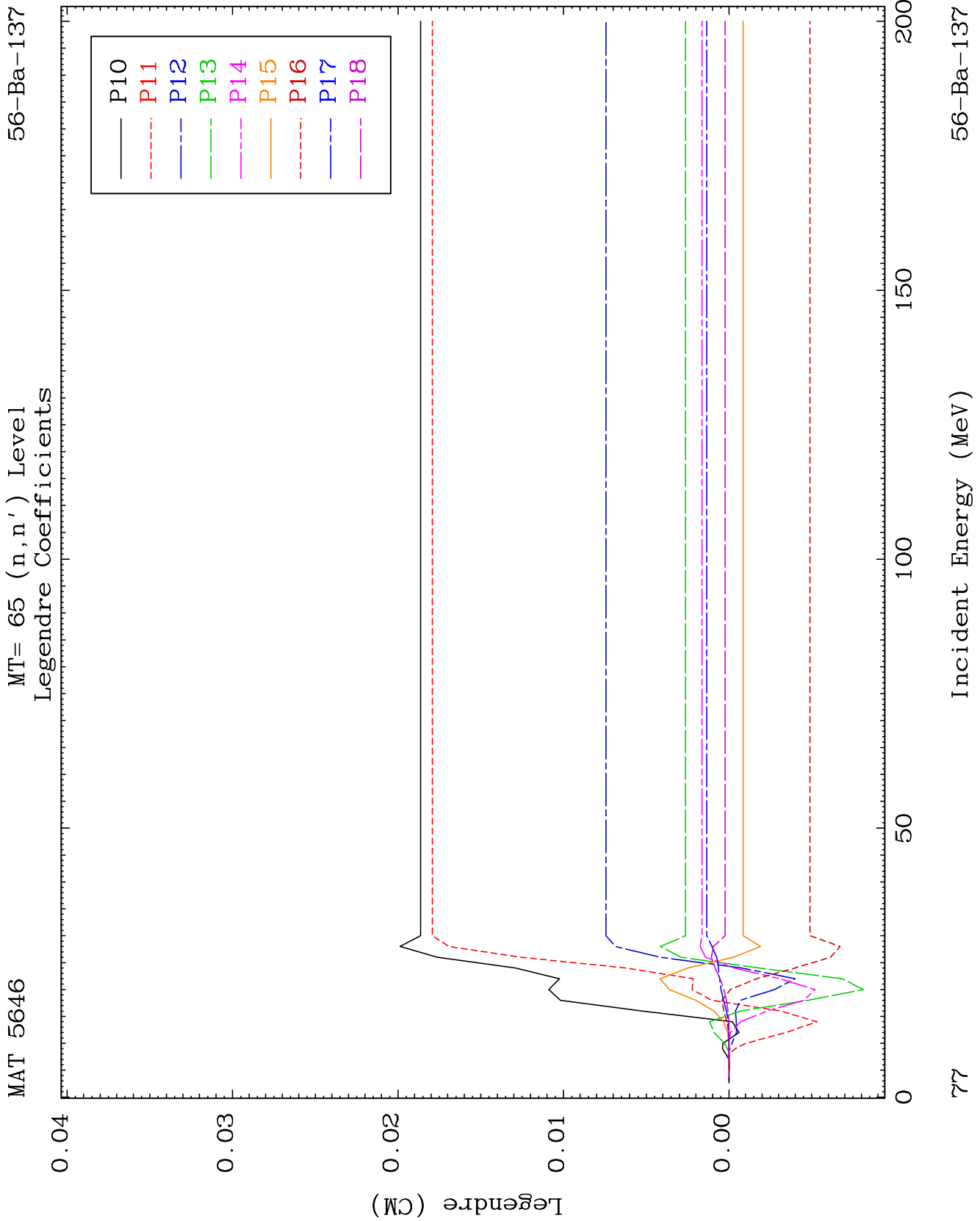
56-Ba-137



56-Ba-137

Incident Energy (MeV)

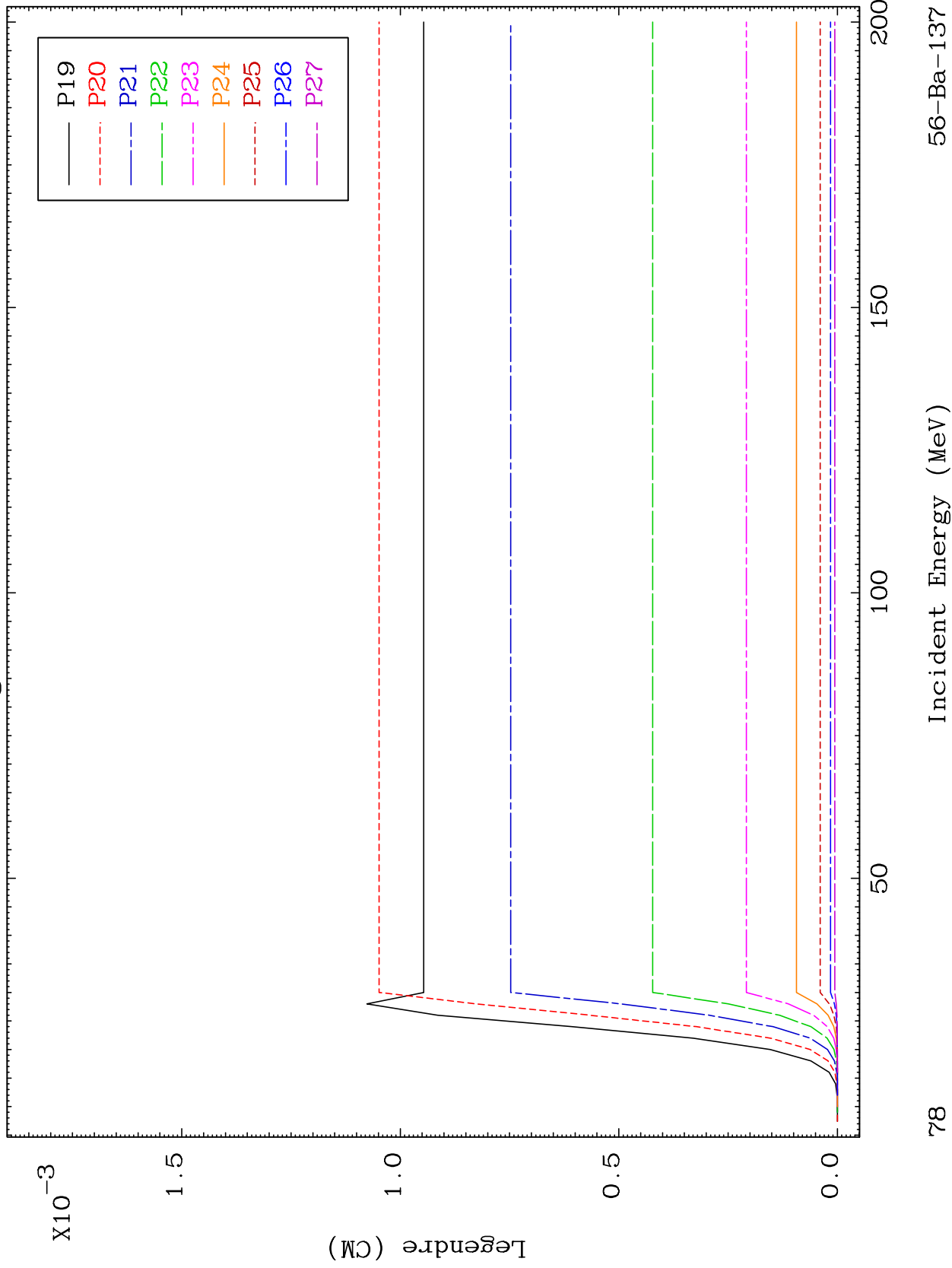
76



MAT 5646

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

56-Ba-137



78

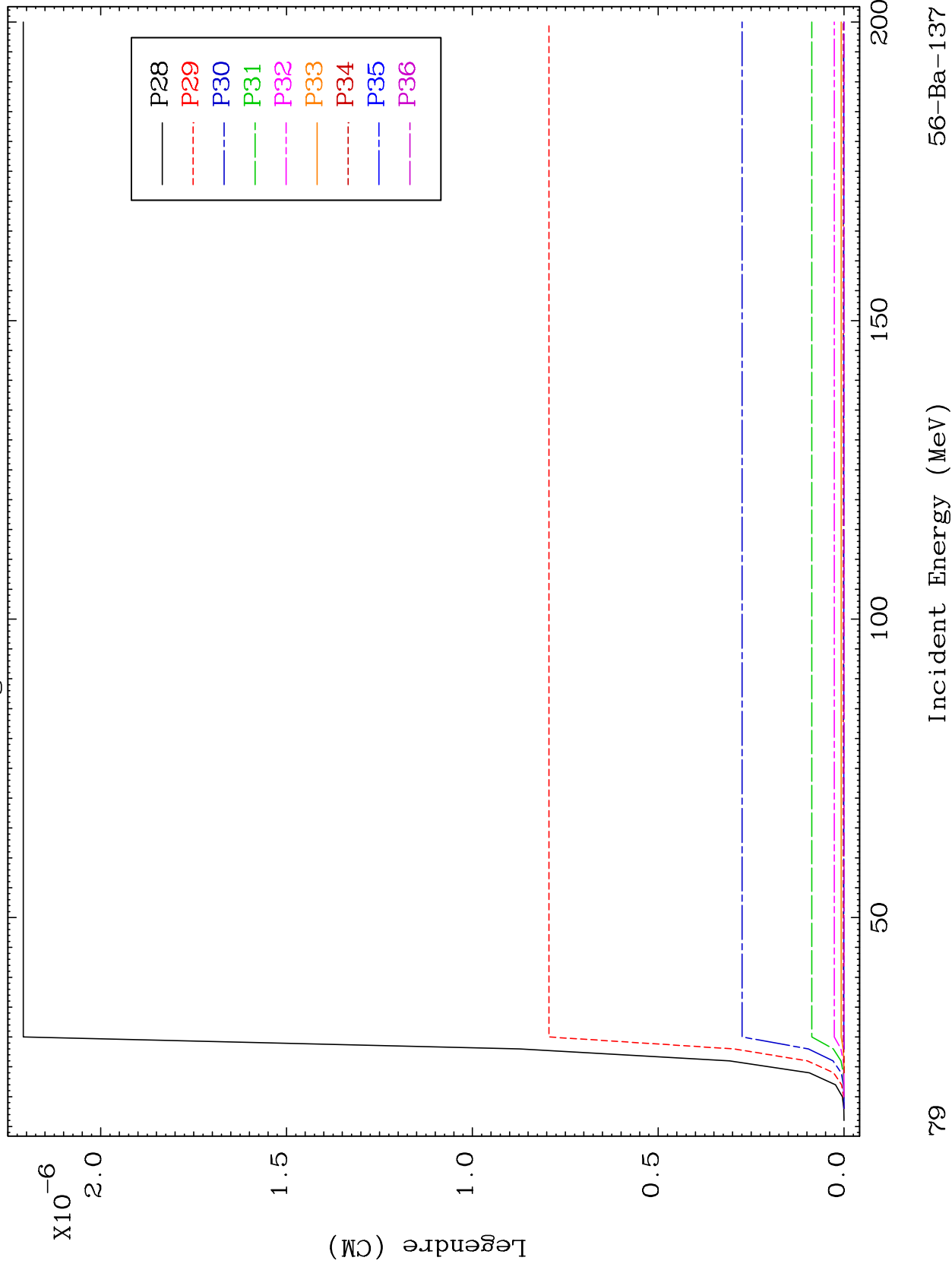
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

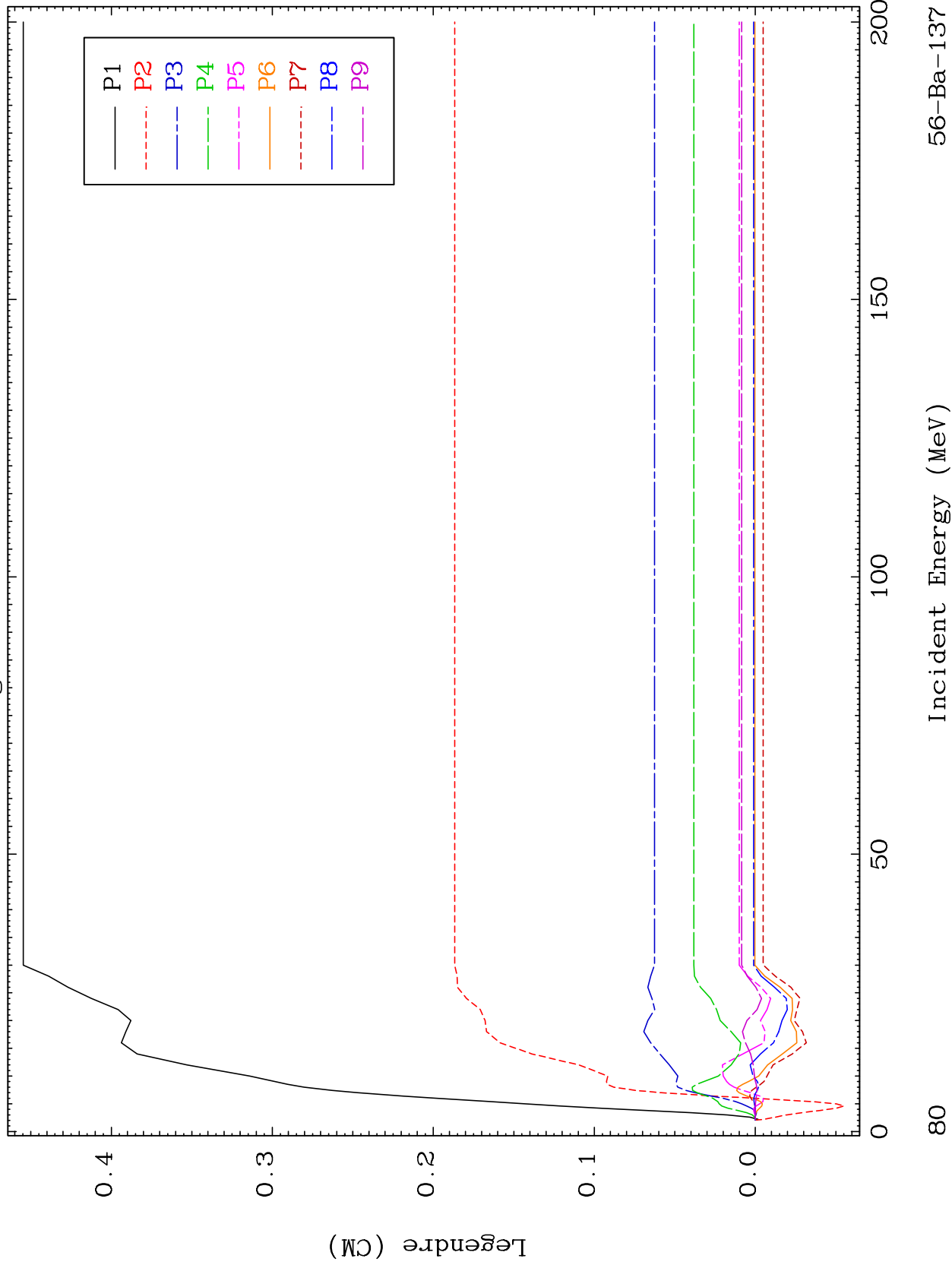
56-Ba-137



MAT 5646

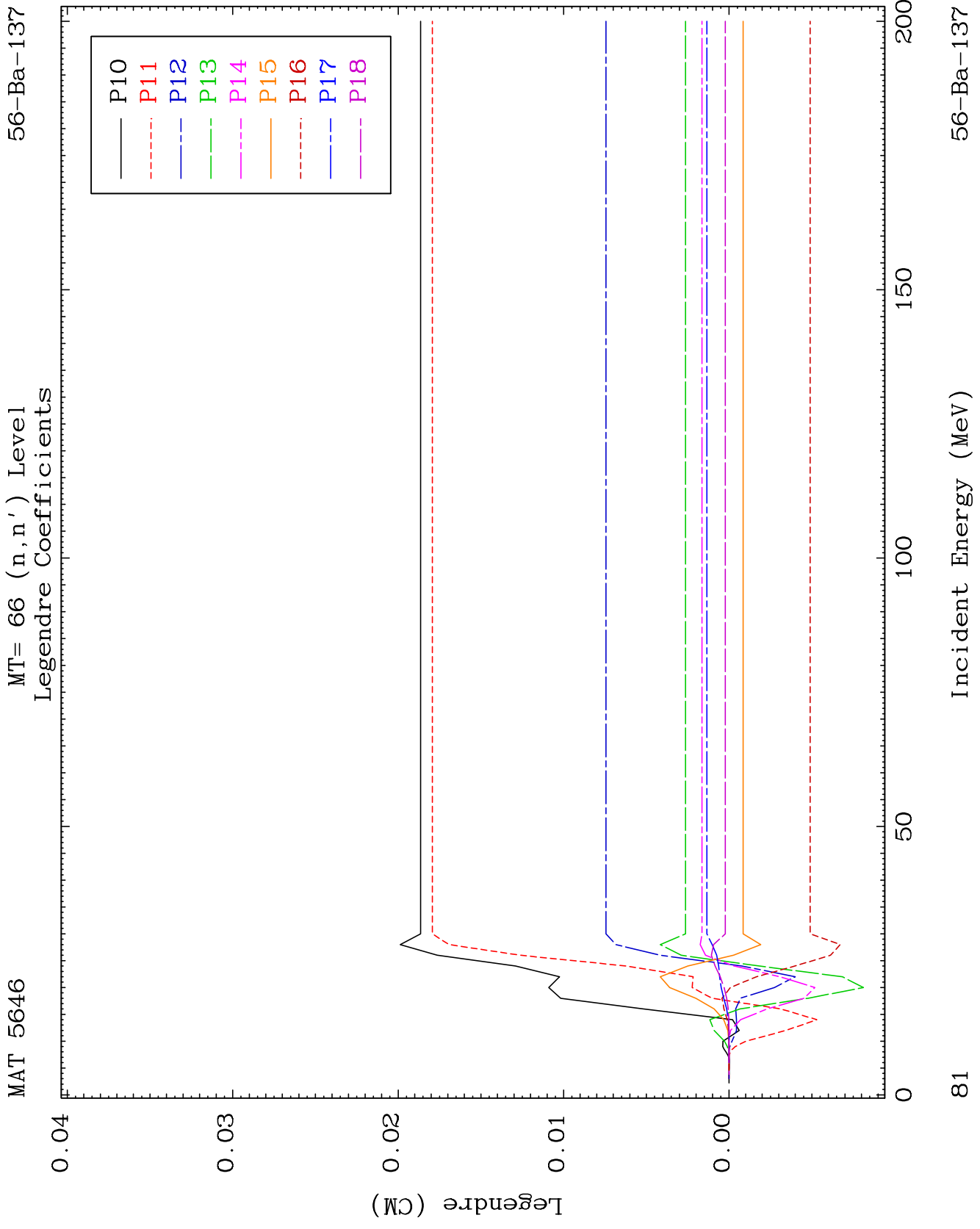
MT= 66 (n,n') Level
Legendre Coefficients

56-Ba-137



56-Ba-137

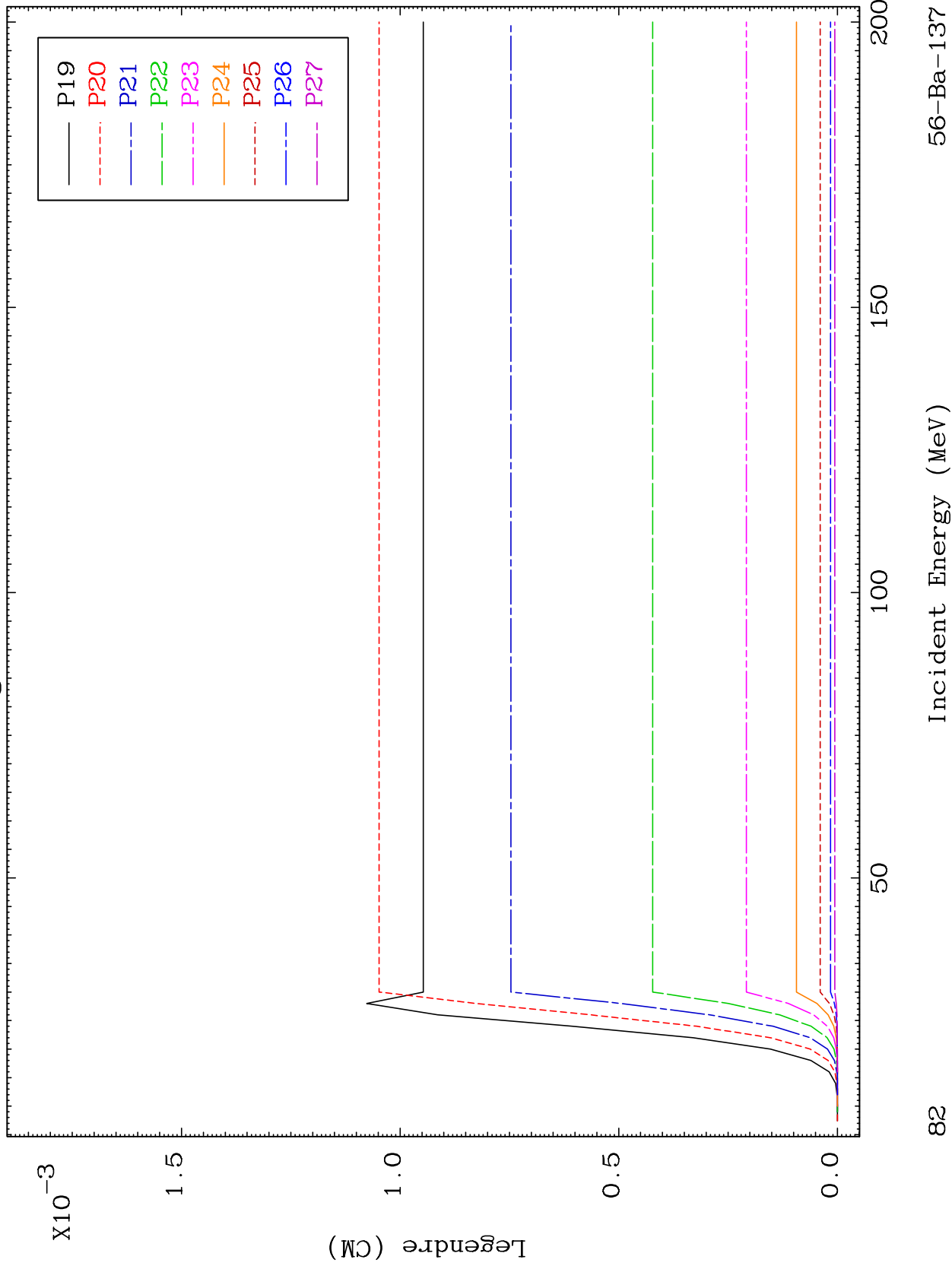
Incident Energy (MeV)



MAT 5646

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

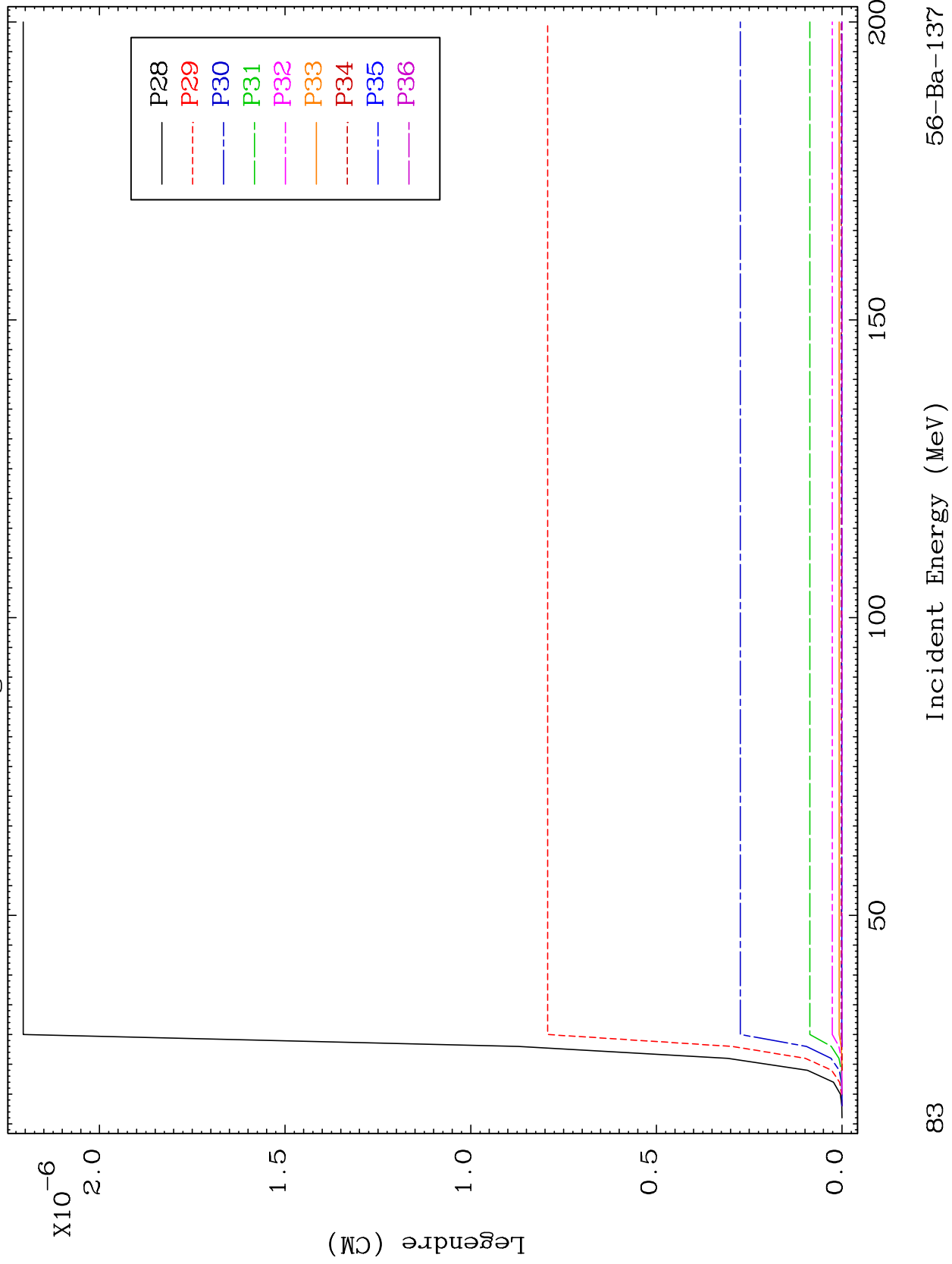
56-Ba-137



MAT 5646

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

56-Ba-137



83

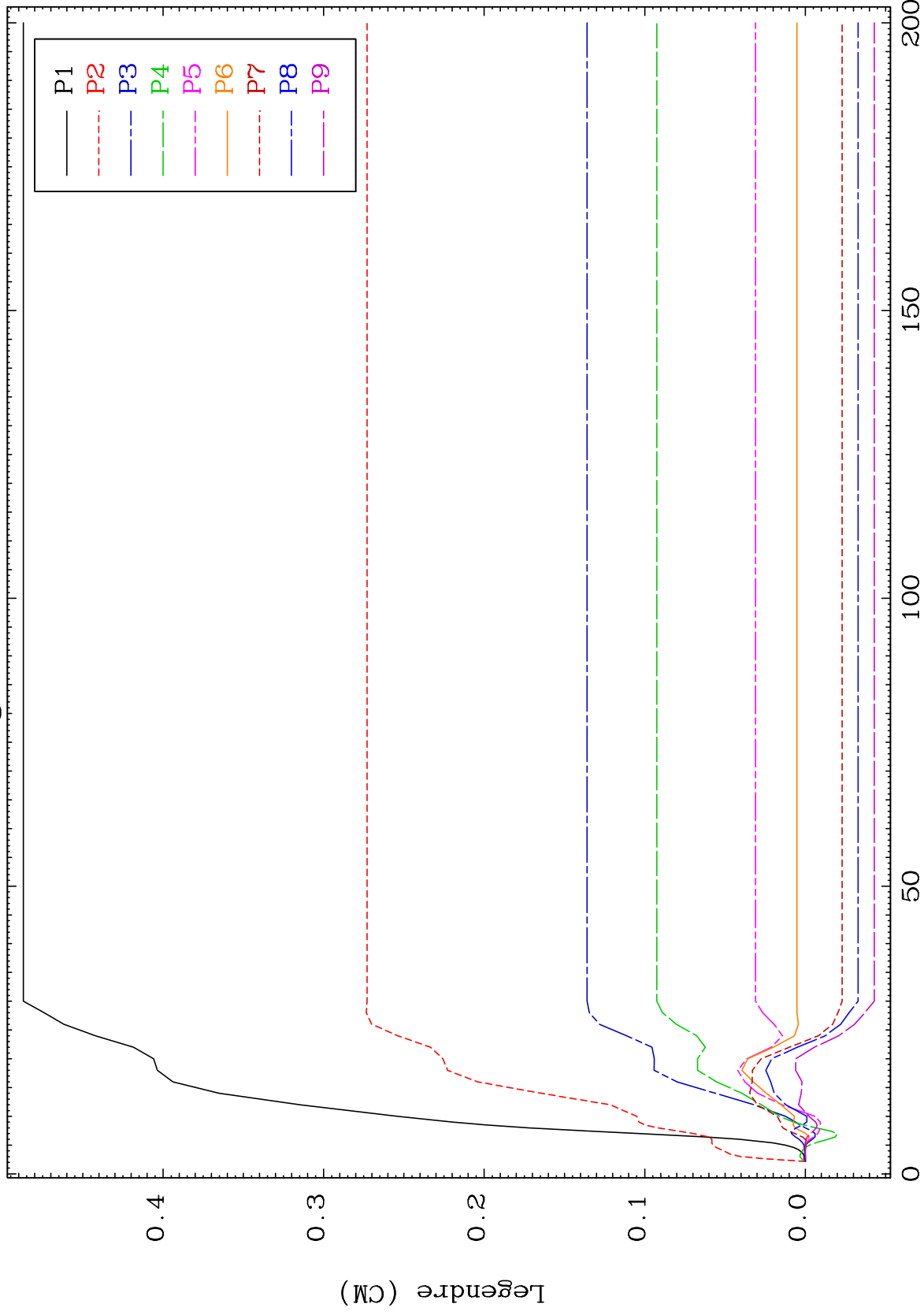
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

56-Ba-137



84

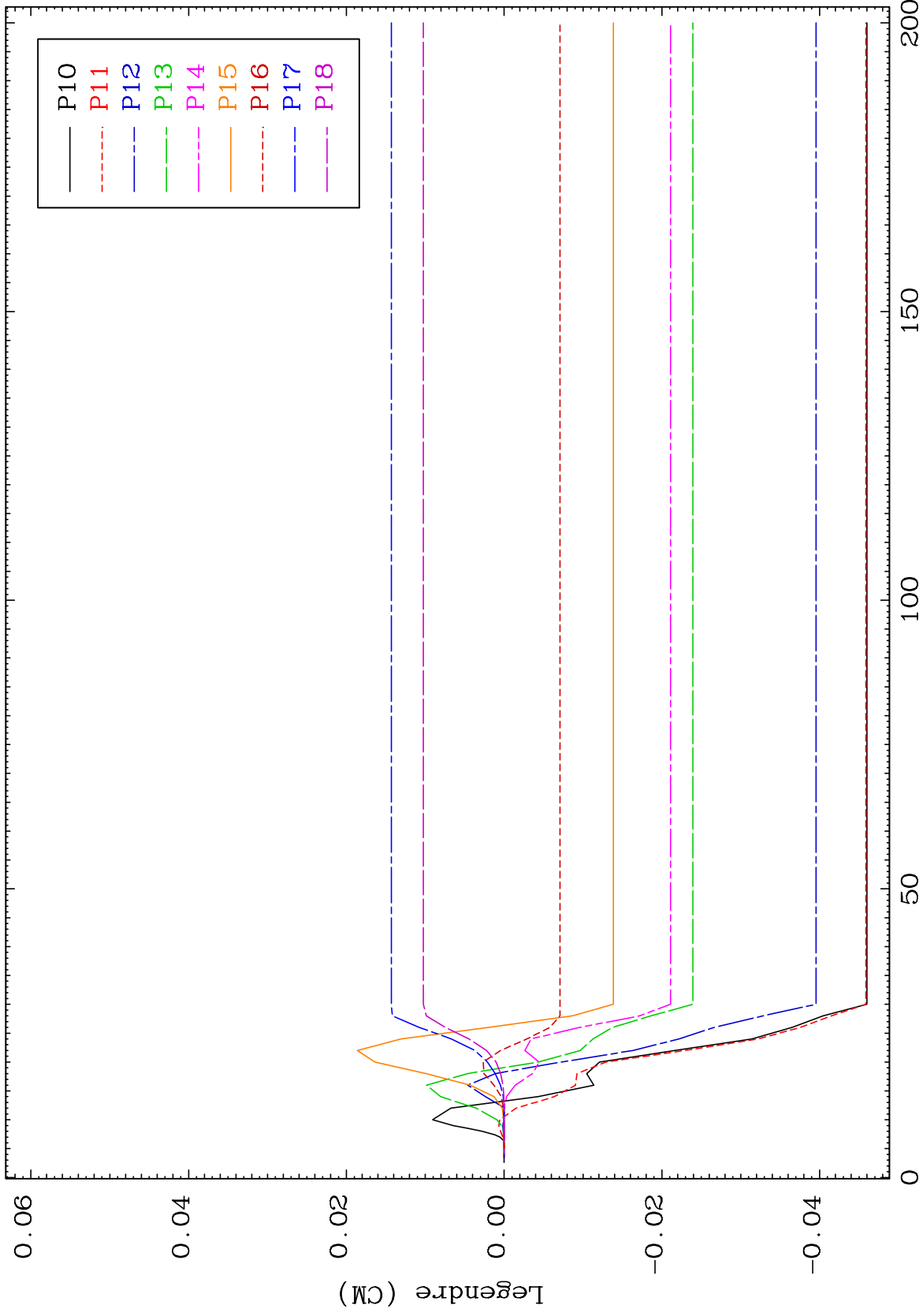
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

56-Ba-137



85

Incident Energy (MeV)

56-Ba-137

200

150

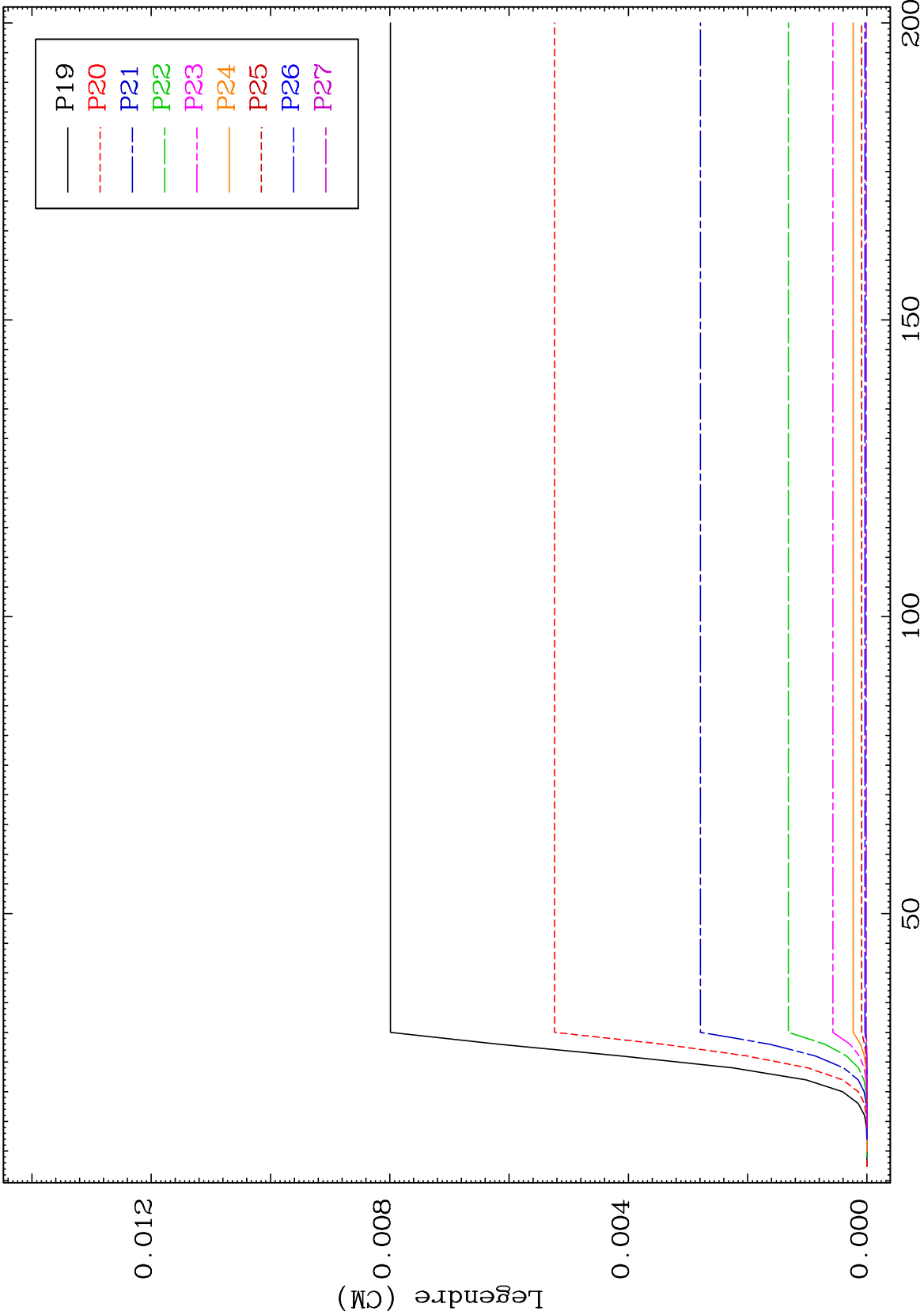
100

50

MAT 5646

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

56-Ba-137



86

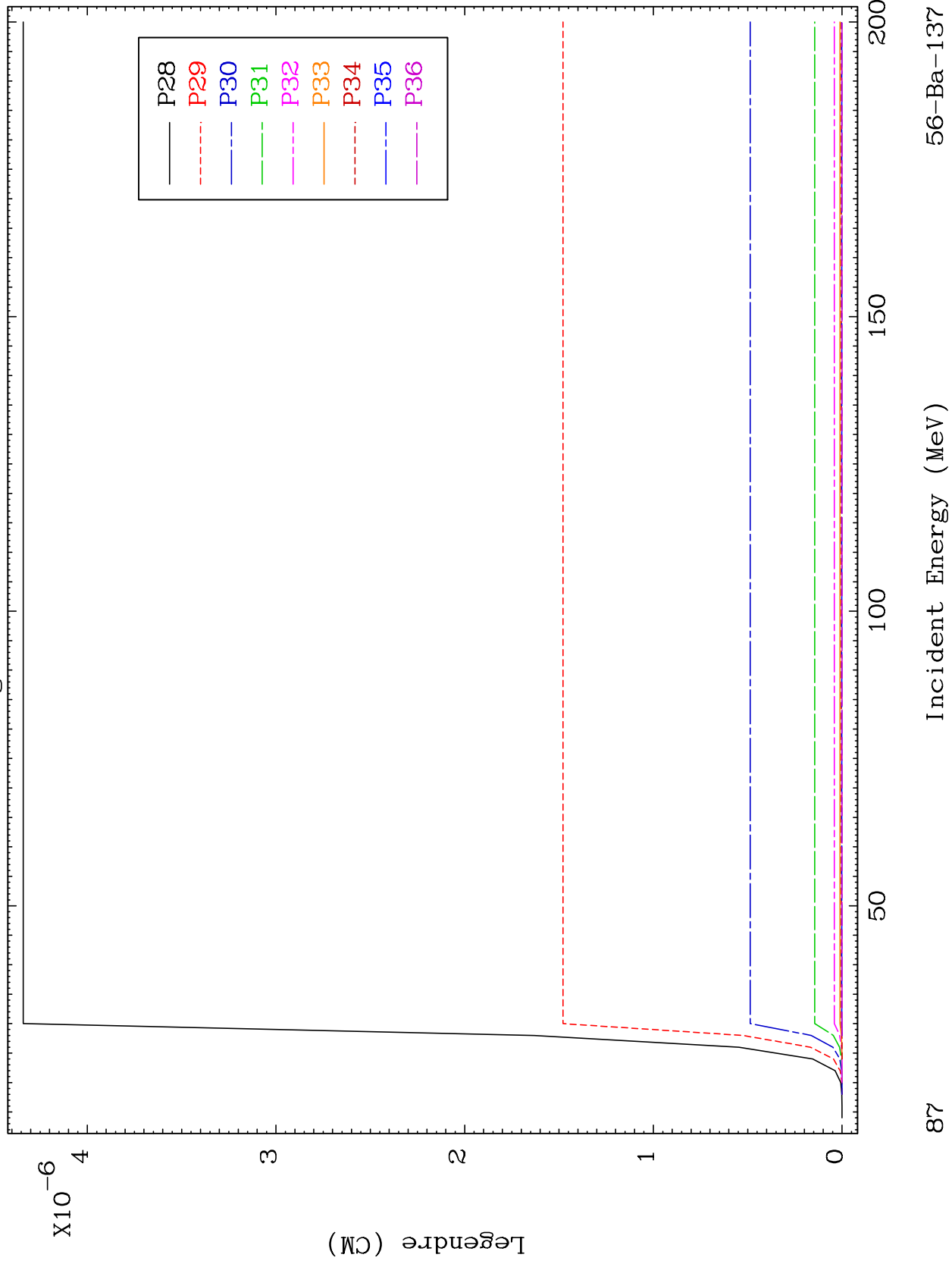
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

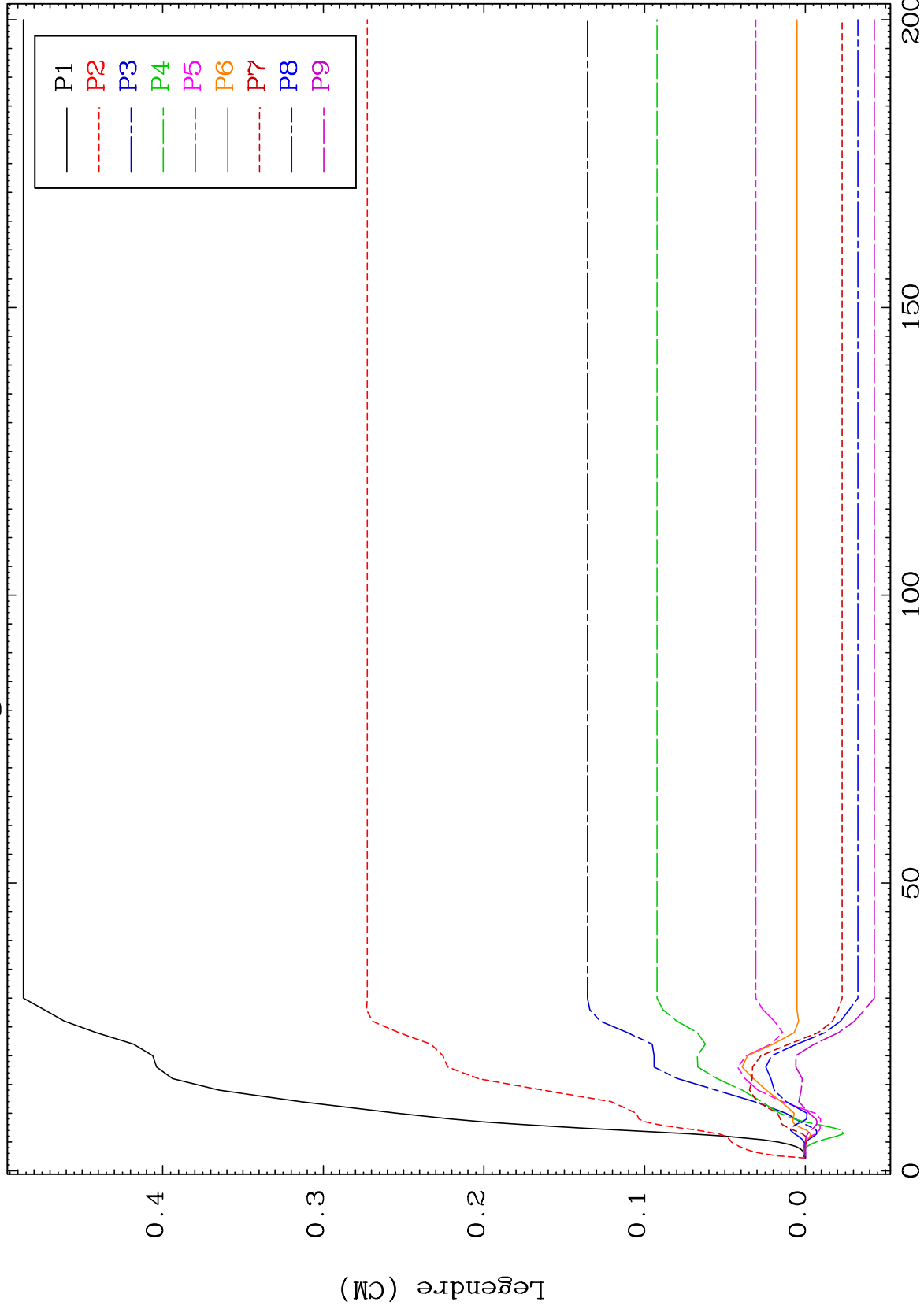
56-Ba-137



MAT 5646

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

56-Ba-137



88

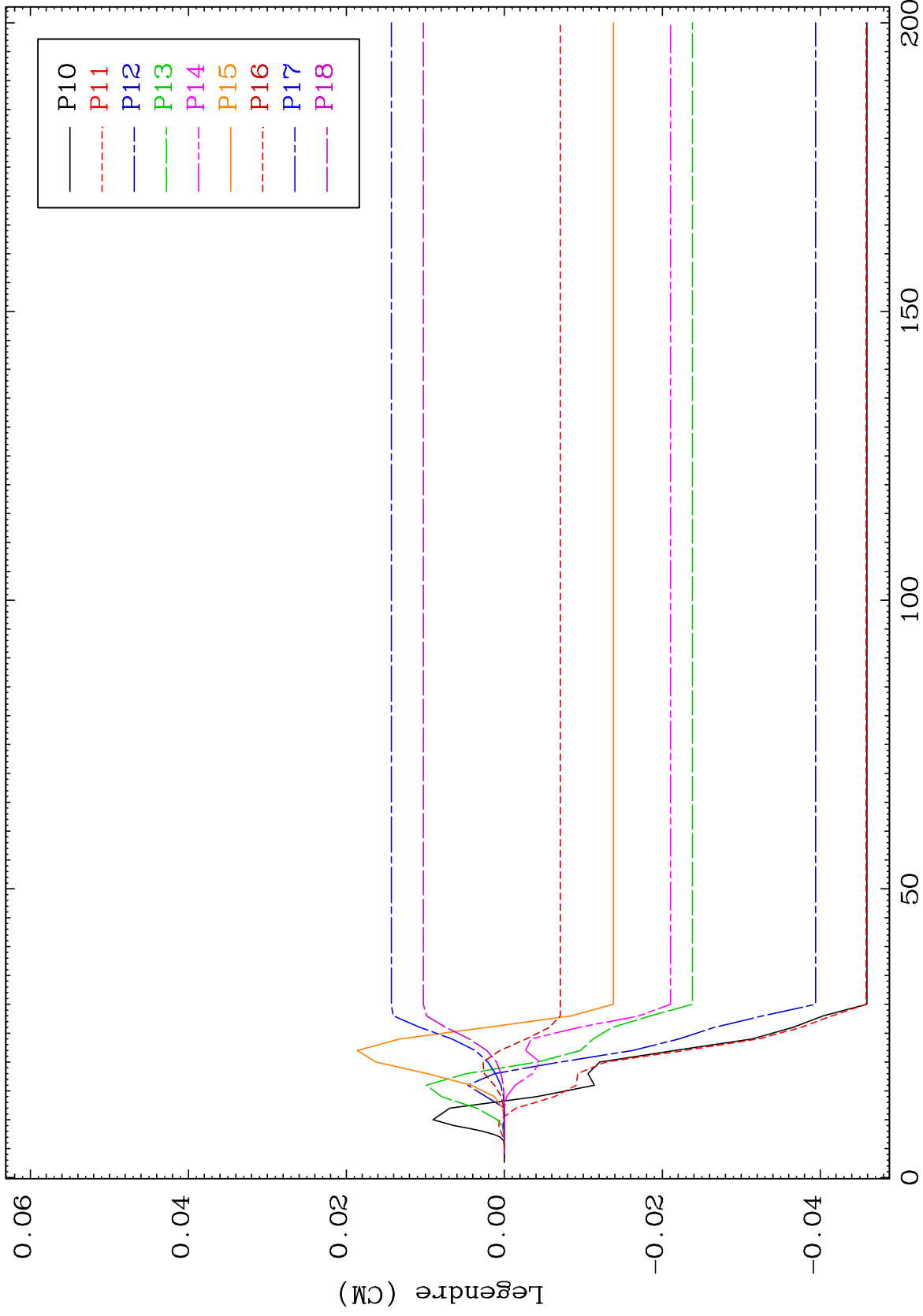
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

56-Ba-137



89

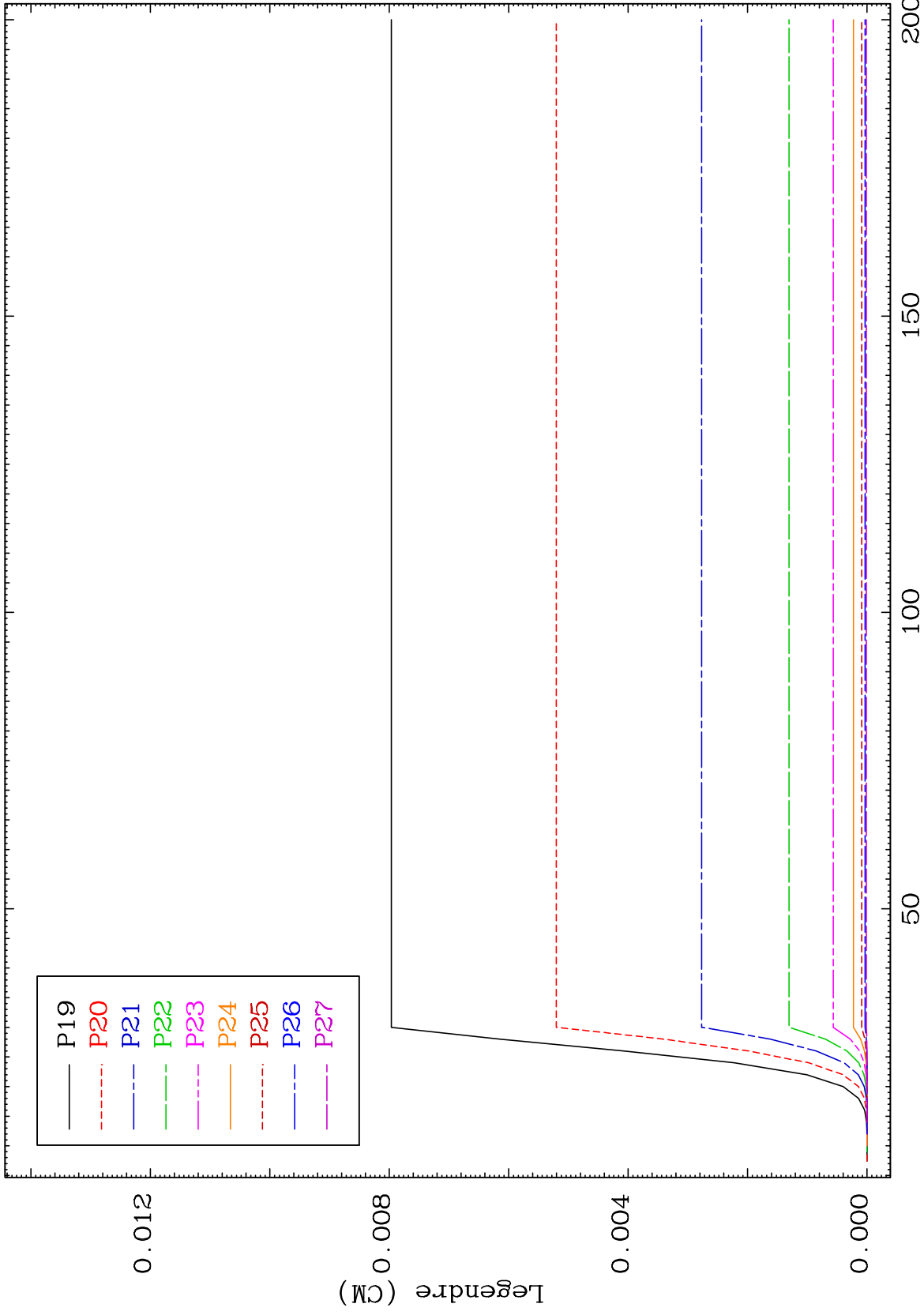
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

56-Ba-137



90

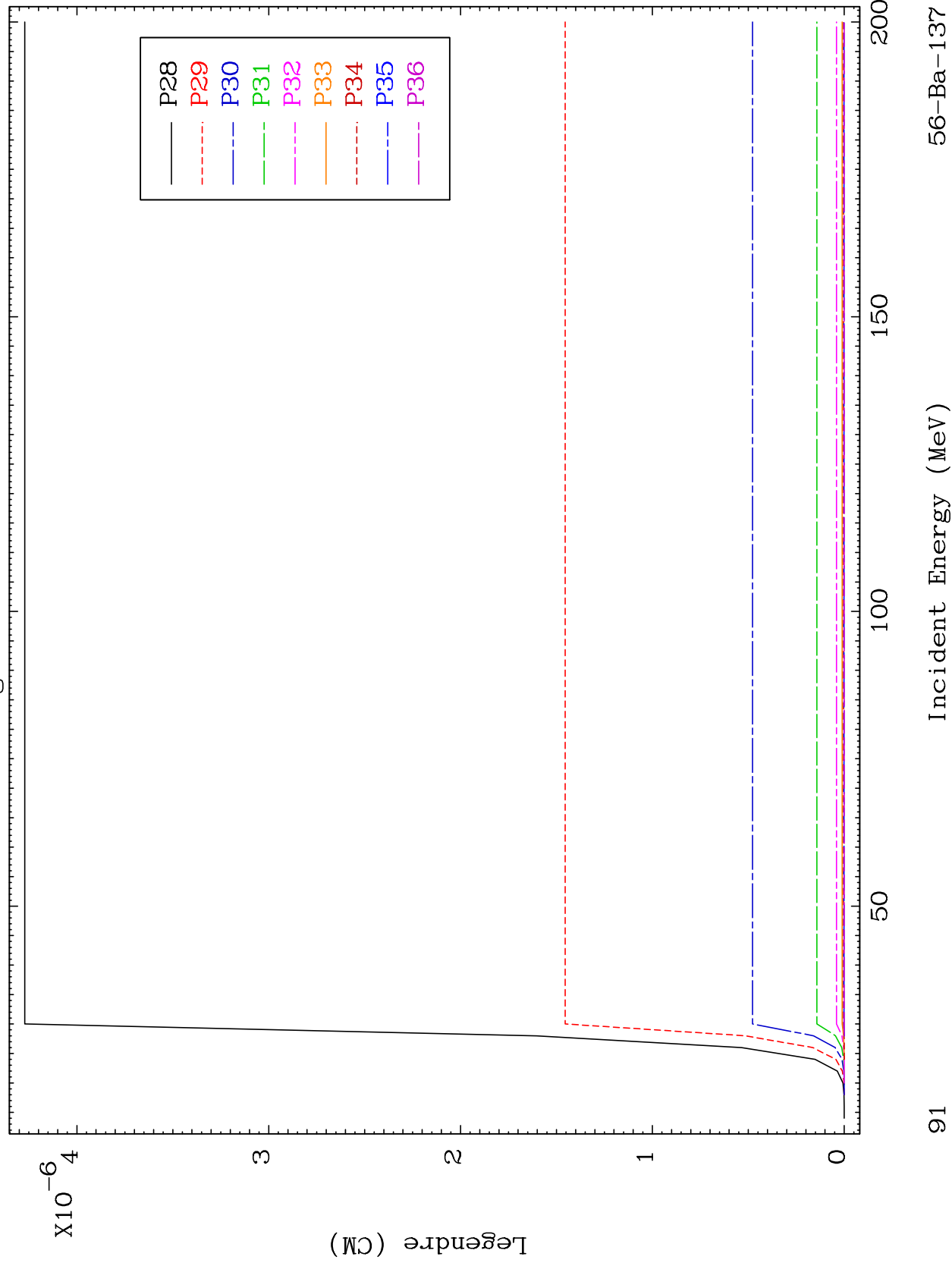
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

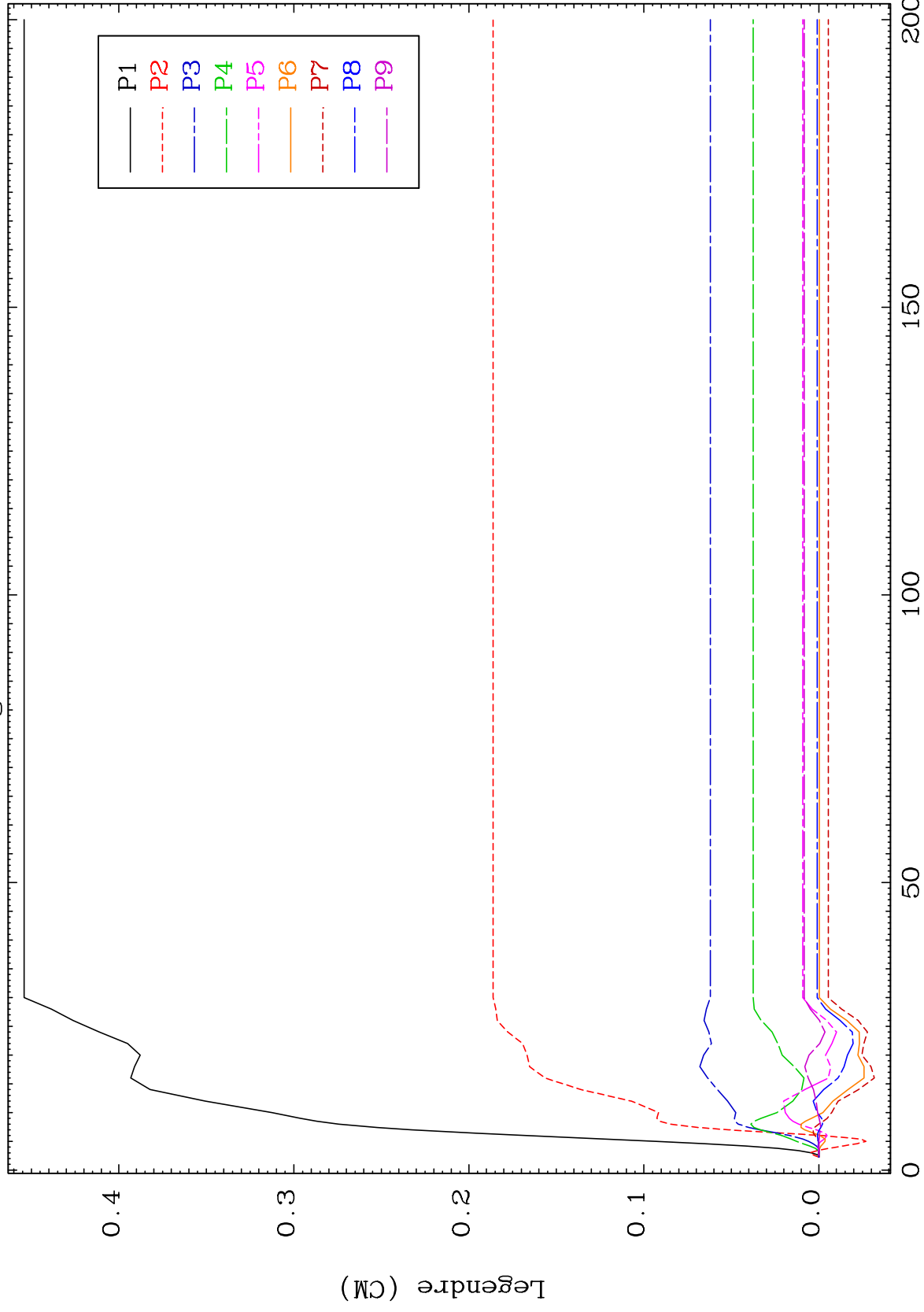
56-Ba-137



MAT 5646

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

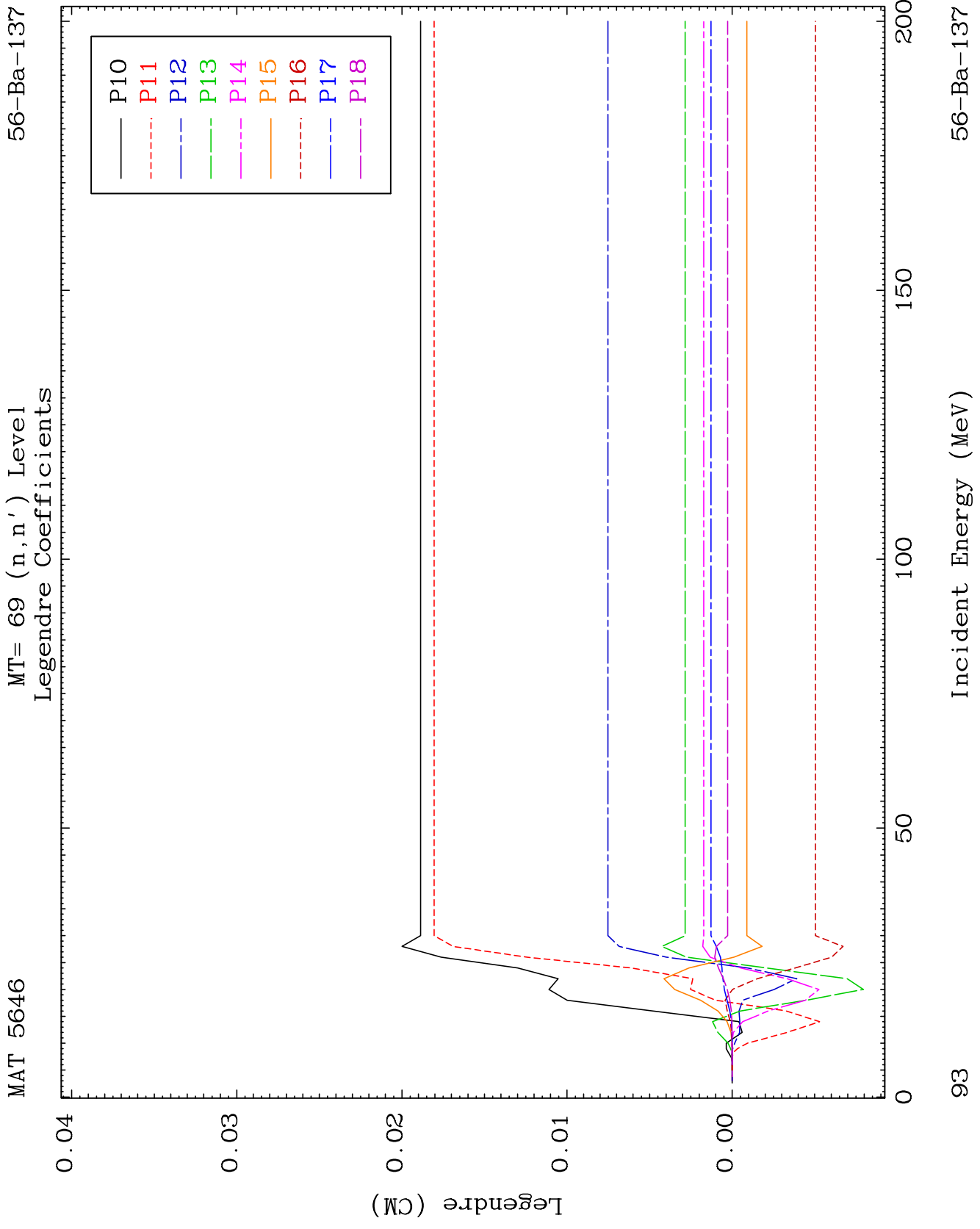
56-Ba-137



92

Incident Energy (MeV)

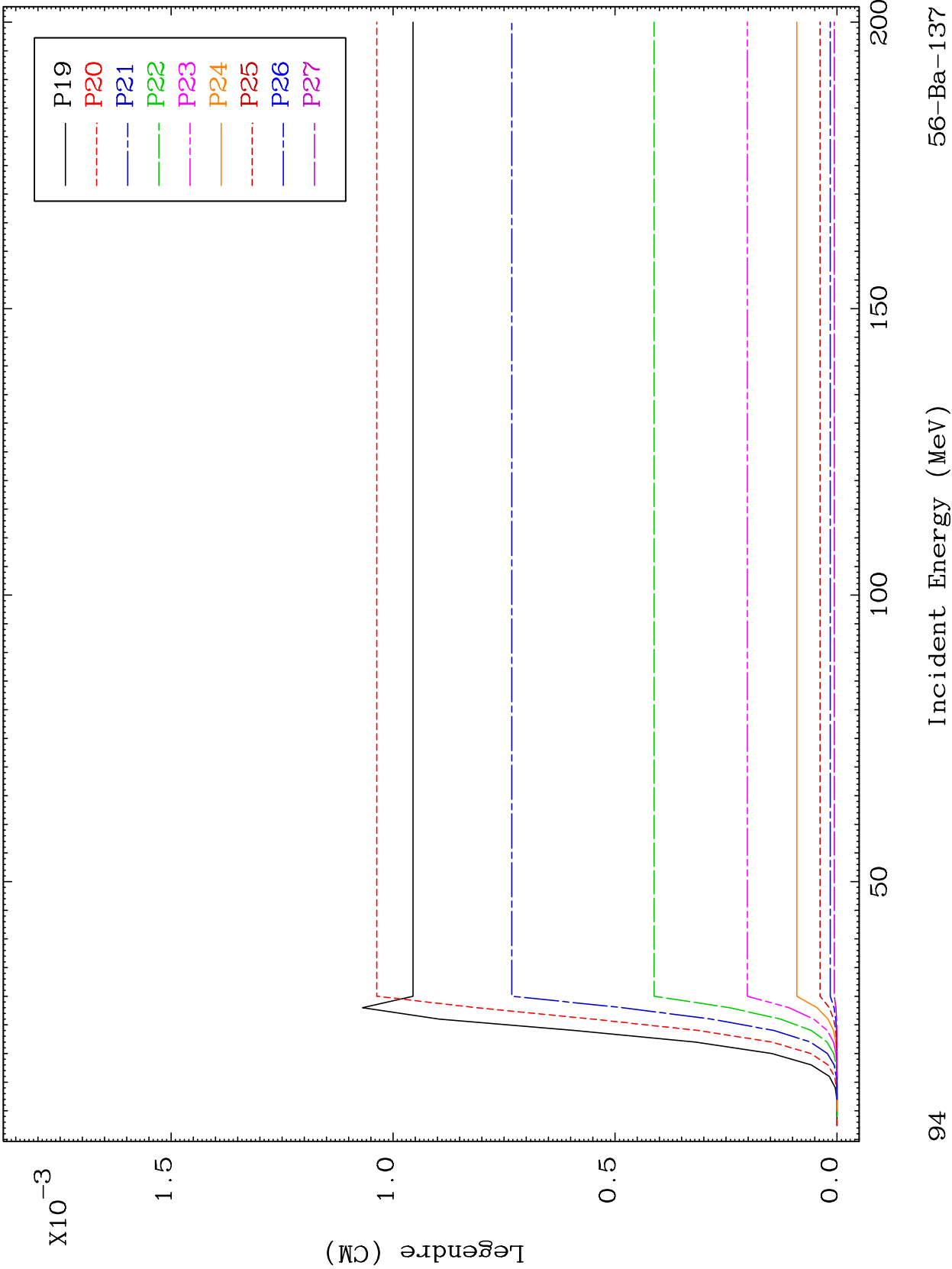
56-Ba-137



MAT 5646

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

56-Ba-137



94

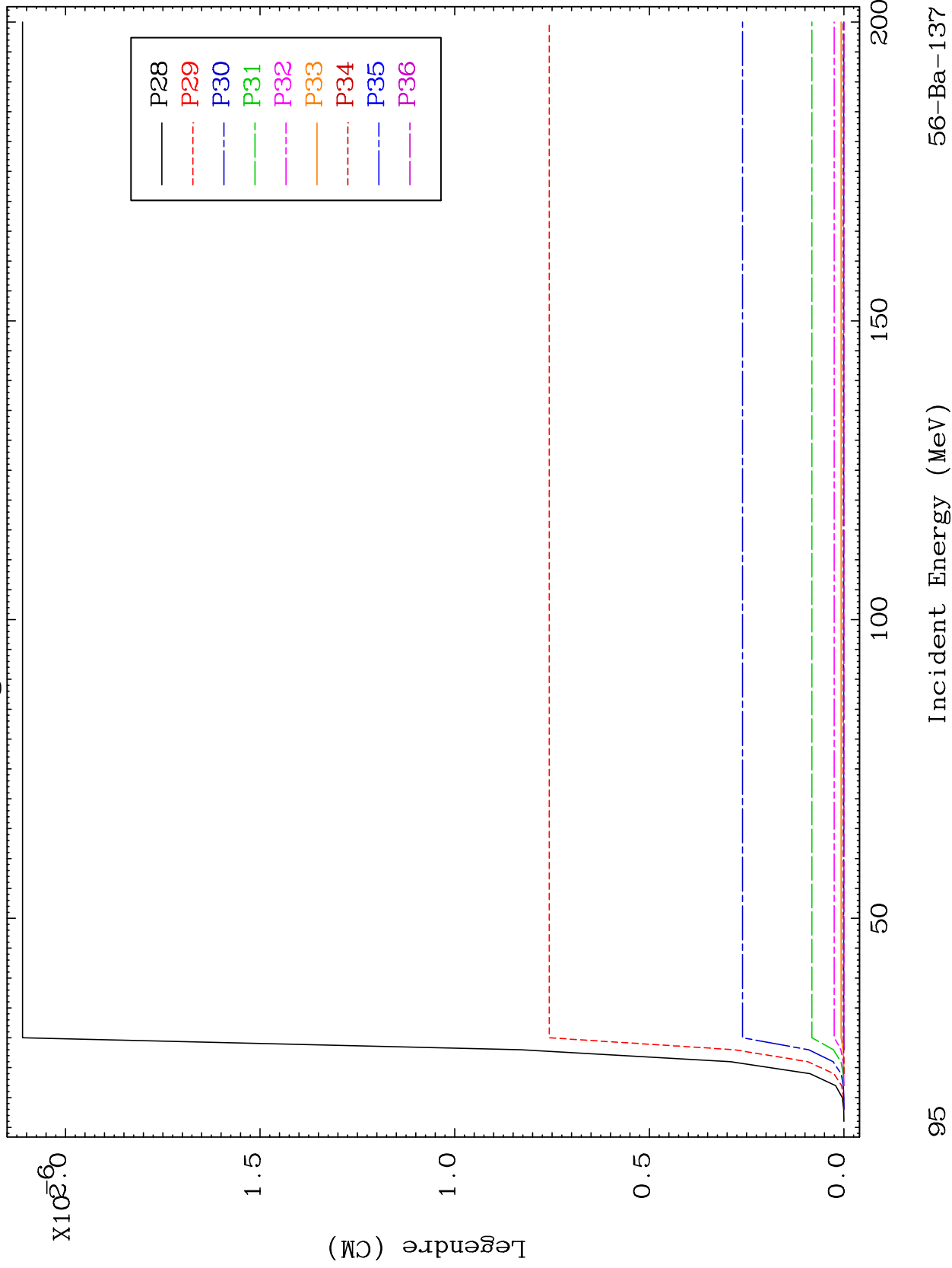
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

56-Ba-137



95

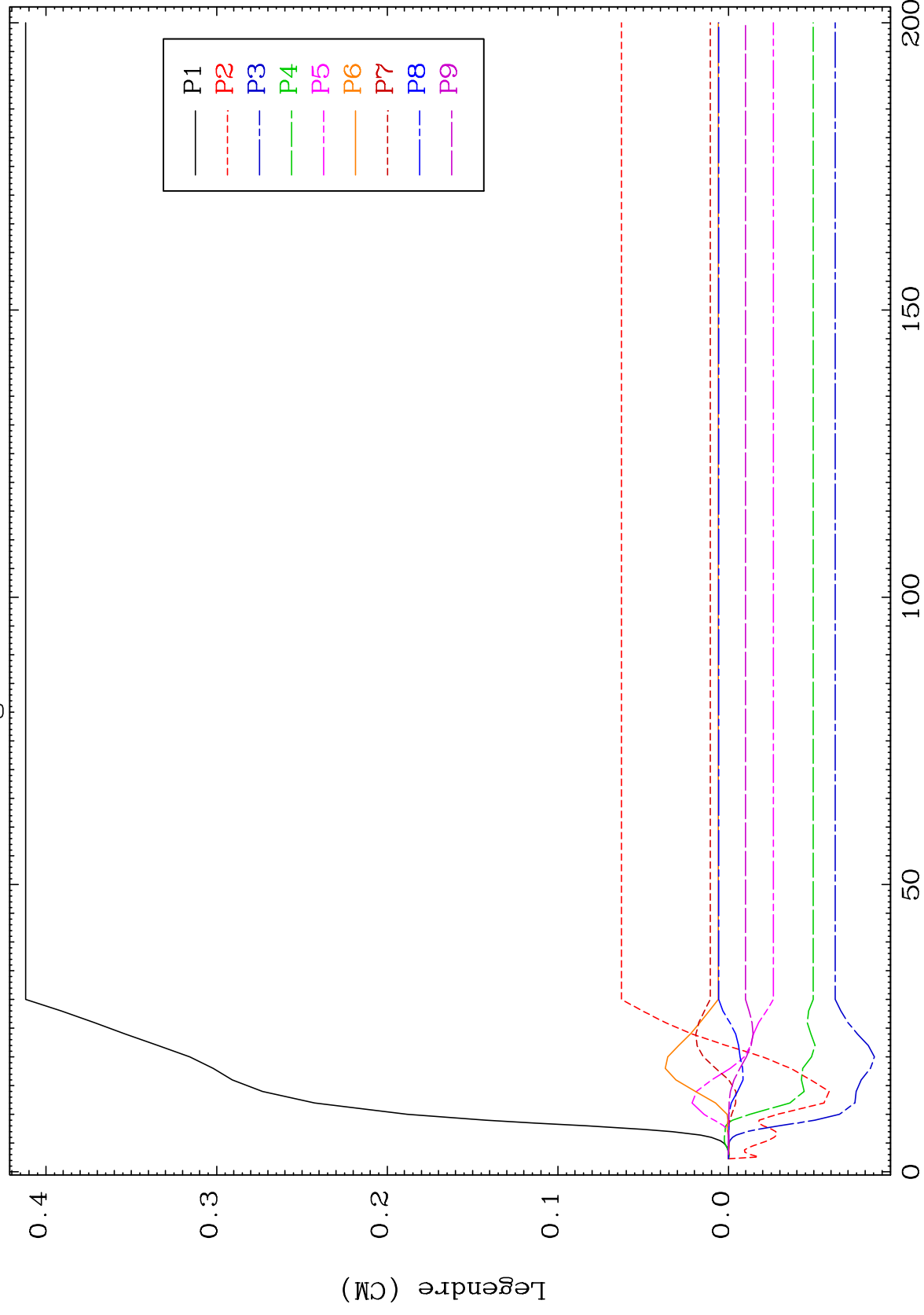
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

56-Ba-137



96

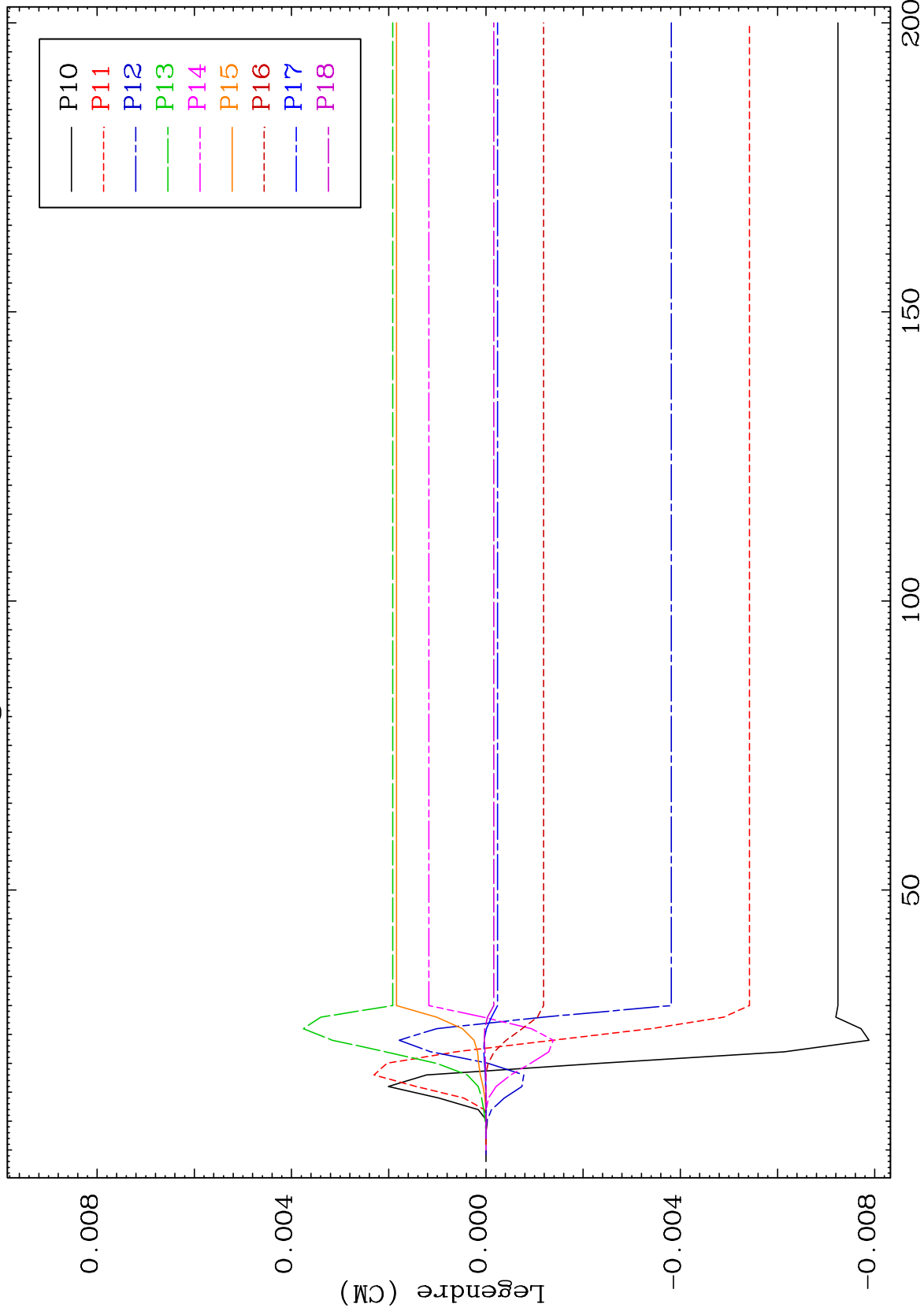
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

56-Ba-137



97

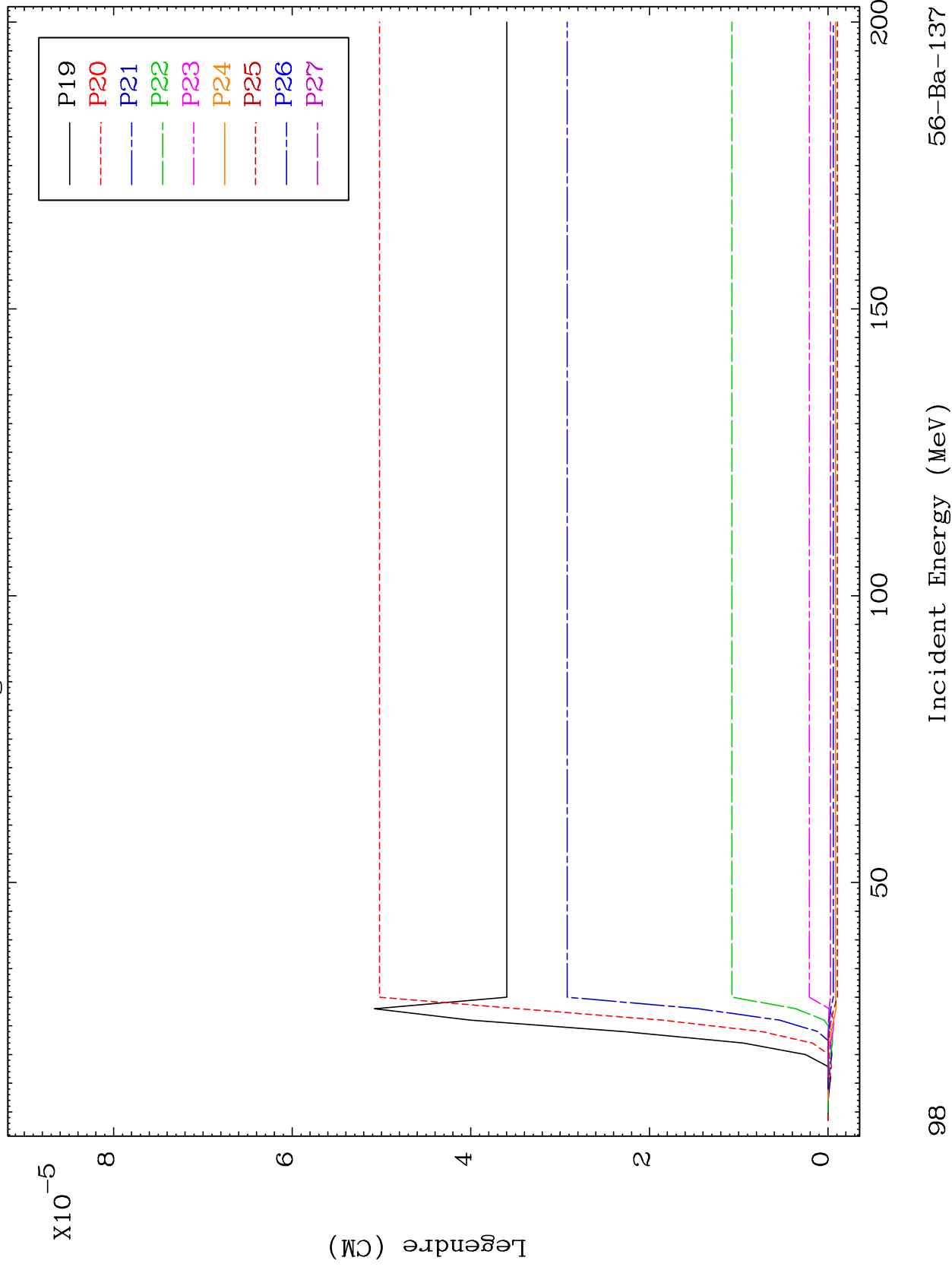
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

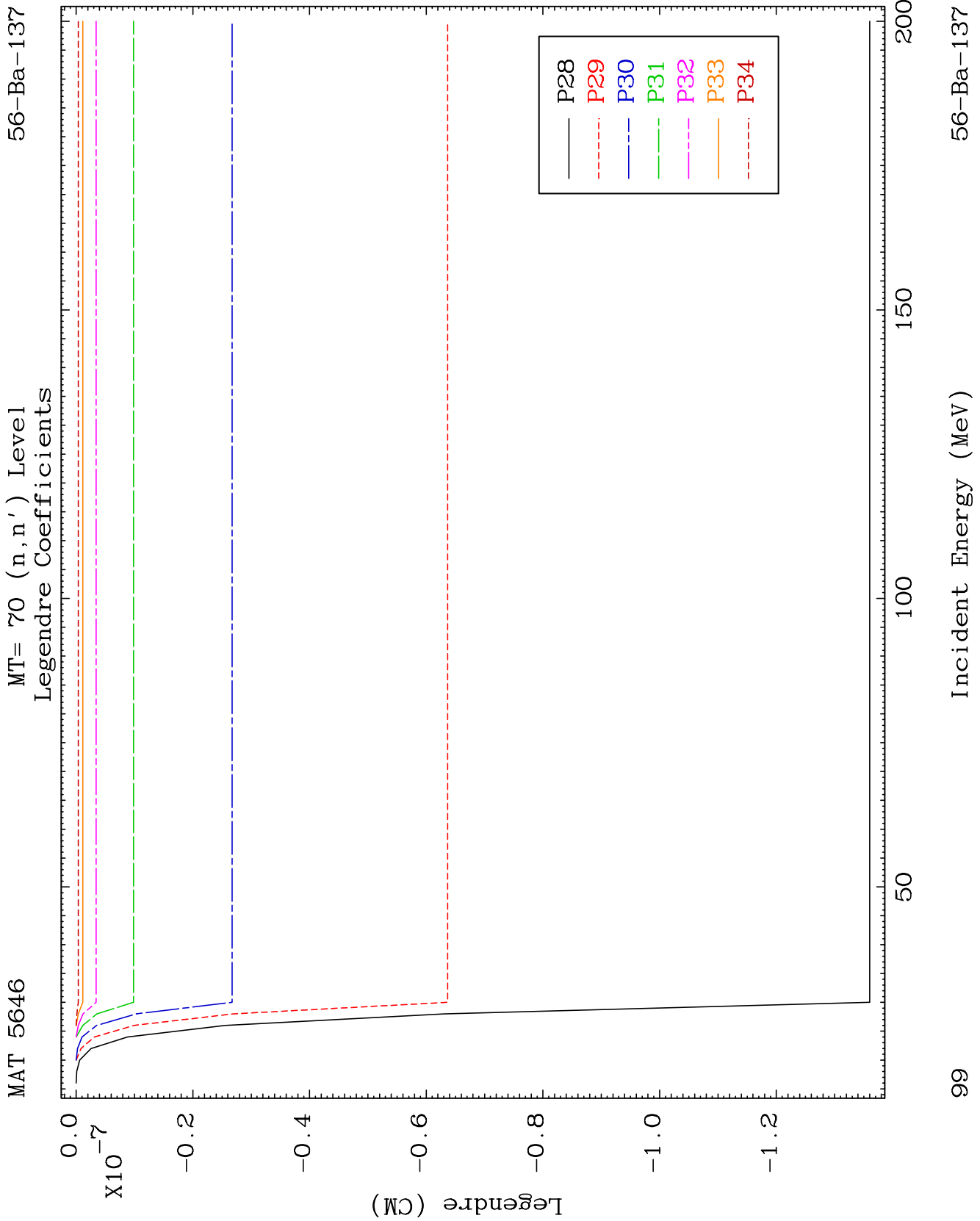
56-Ba-137



98

Incident Energy (MeV)

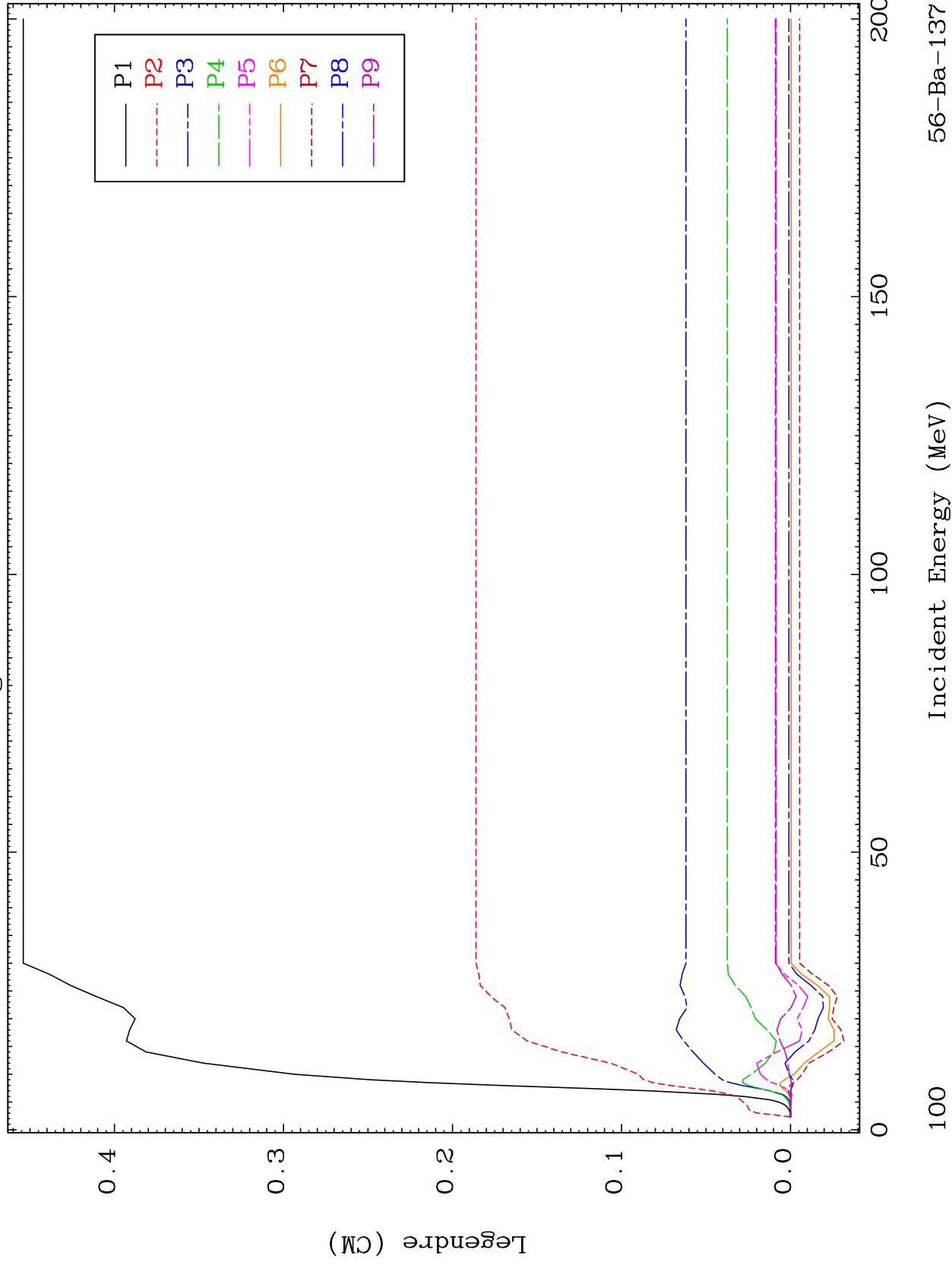
56-Ba-137



MAT 5646

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

56-Ba-137

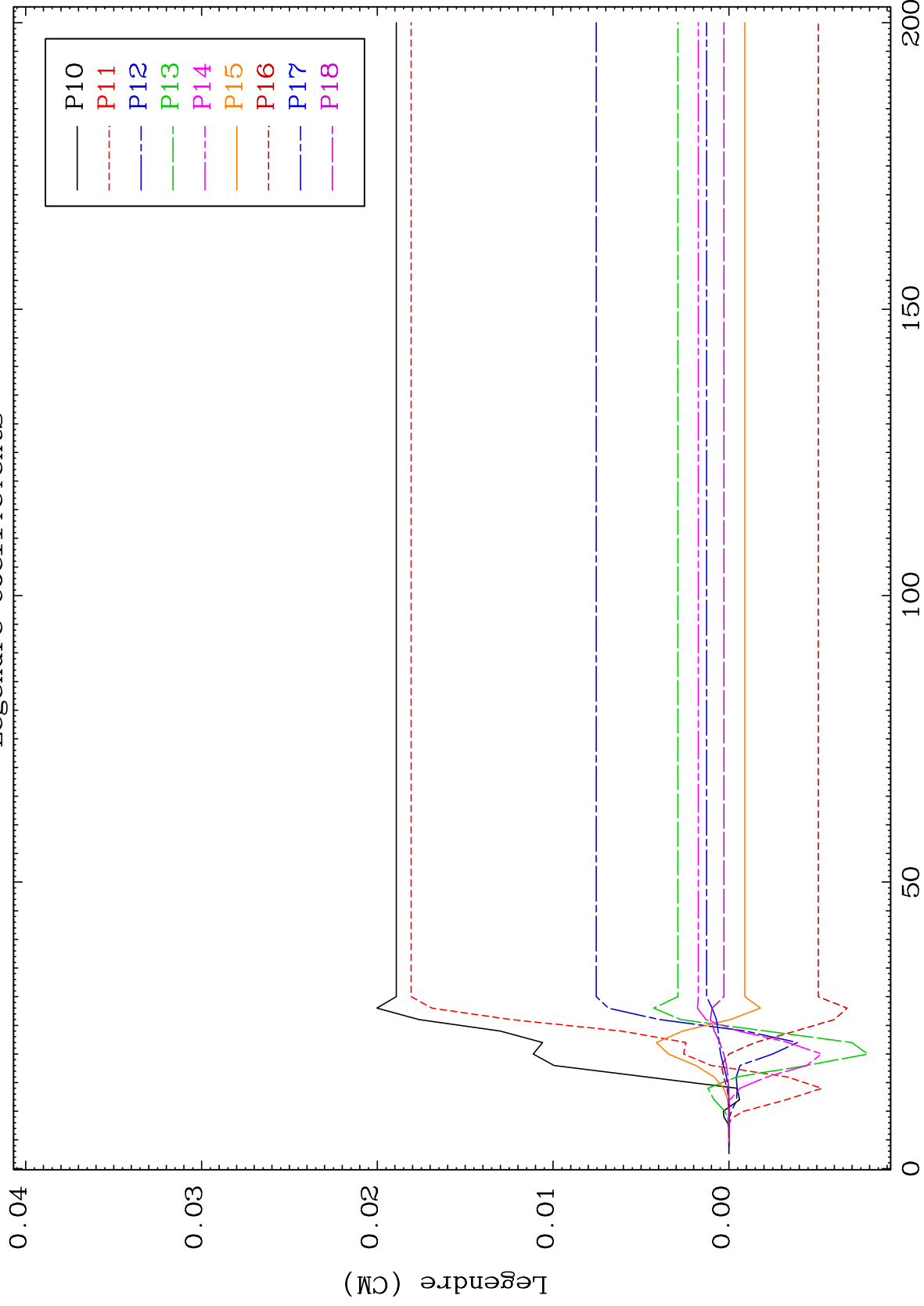


56-Ba-137

MAT 5646

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

56-Ba-137



101

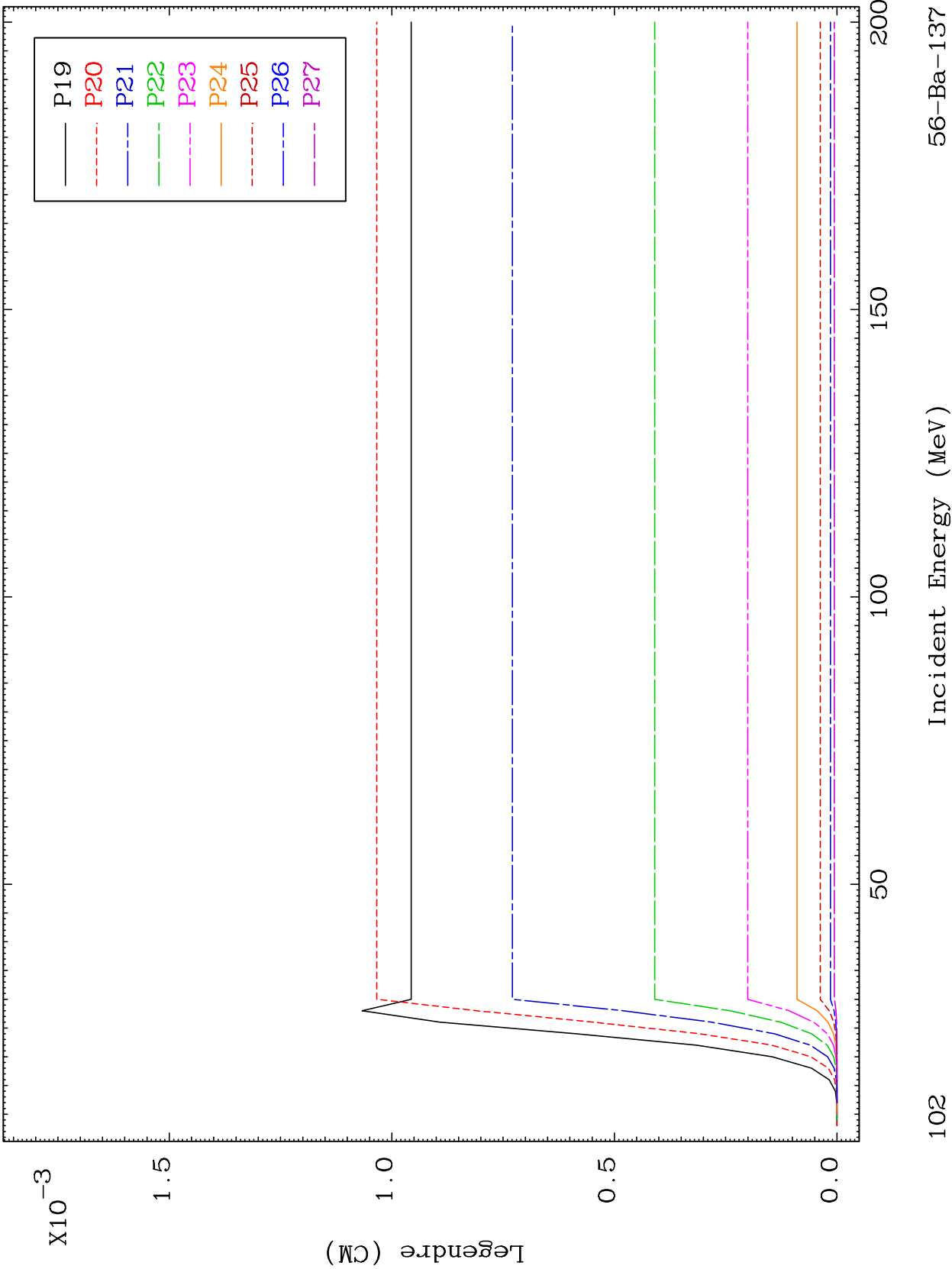
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

56-Ba-137



102

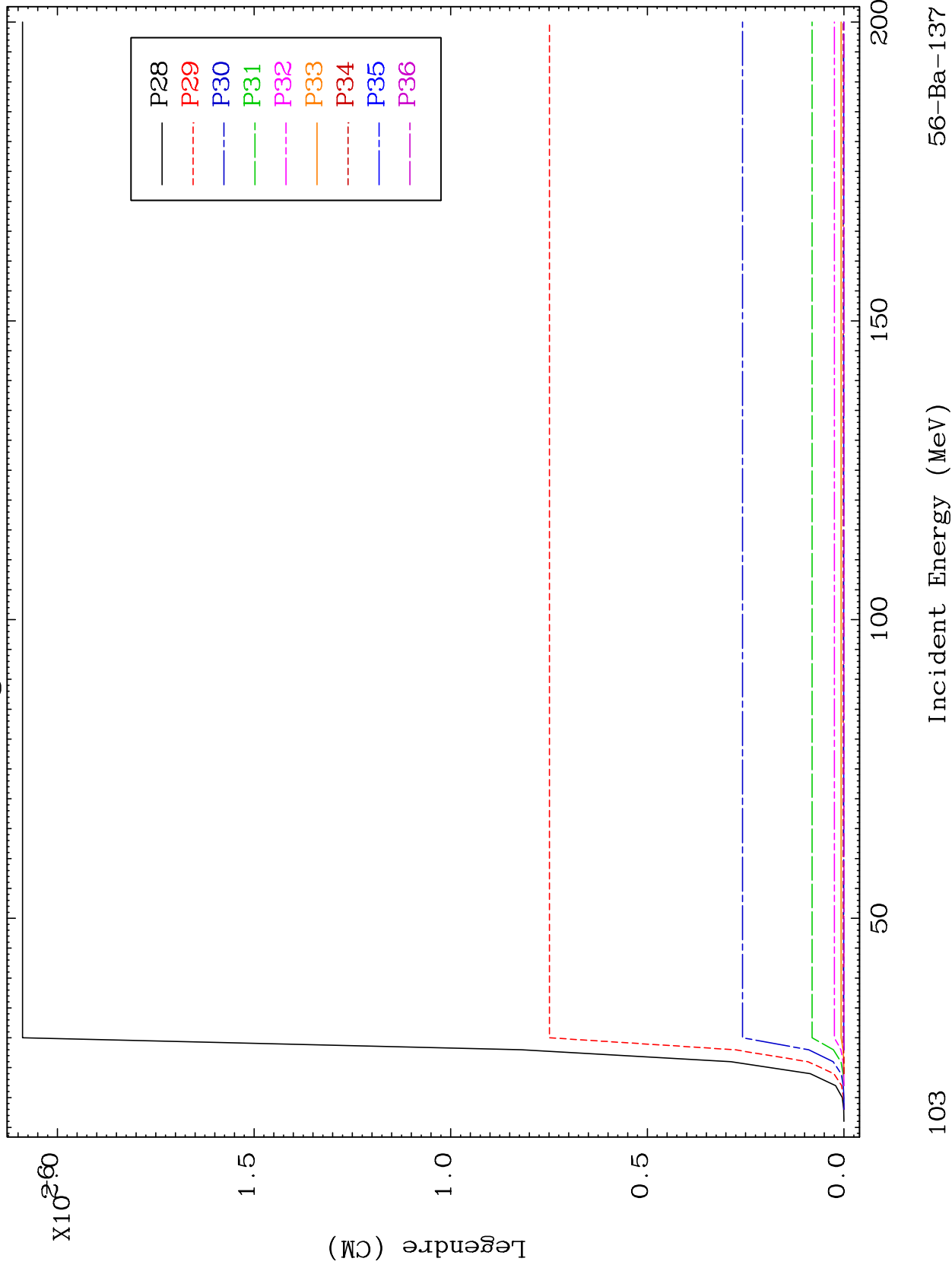
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

56-Ba-137



103

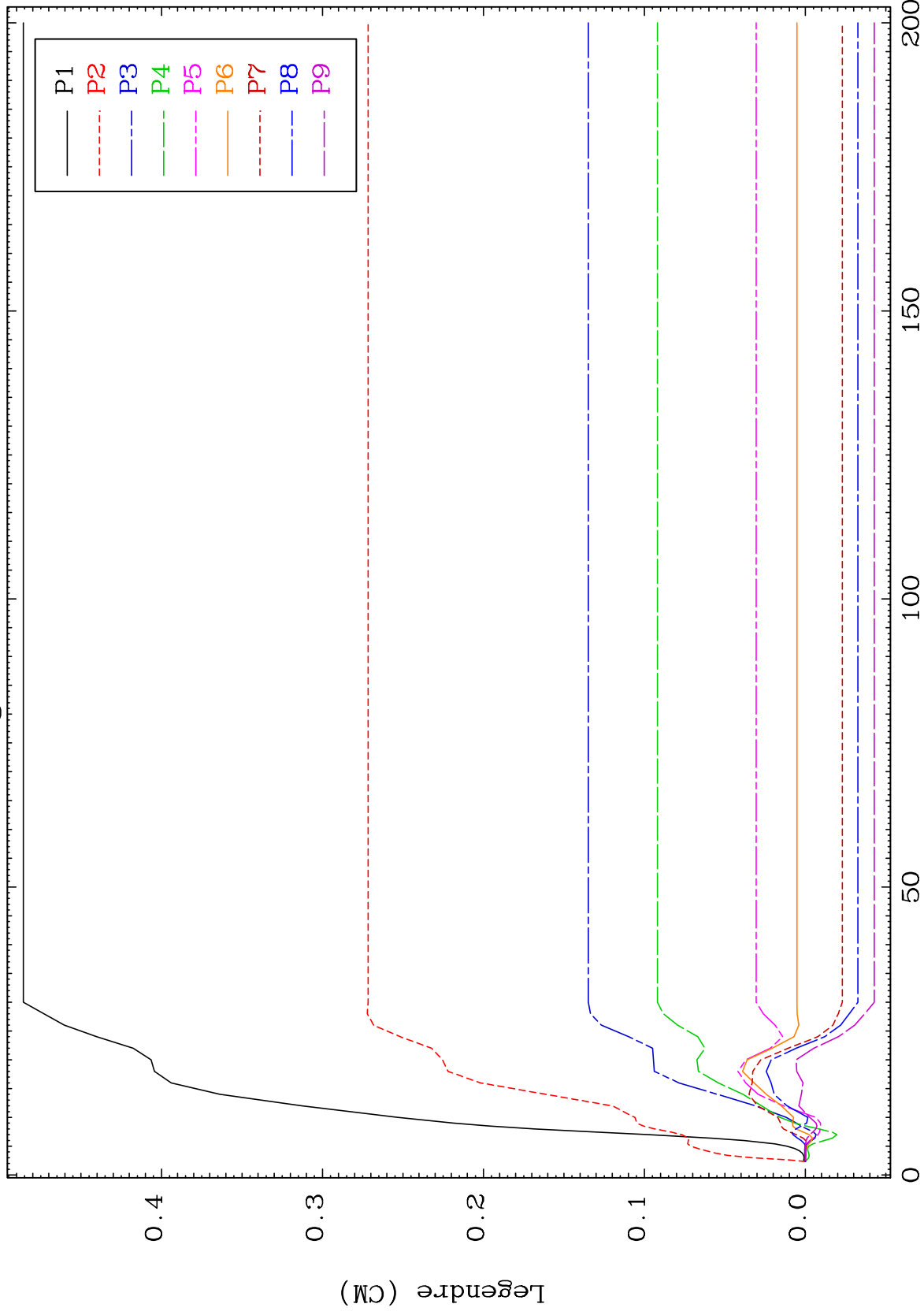
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

56-Ba-137



104

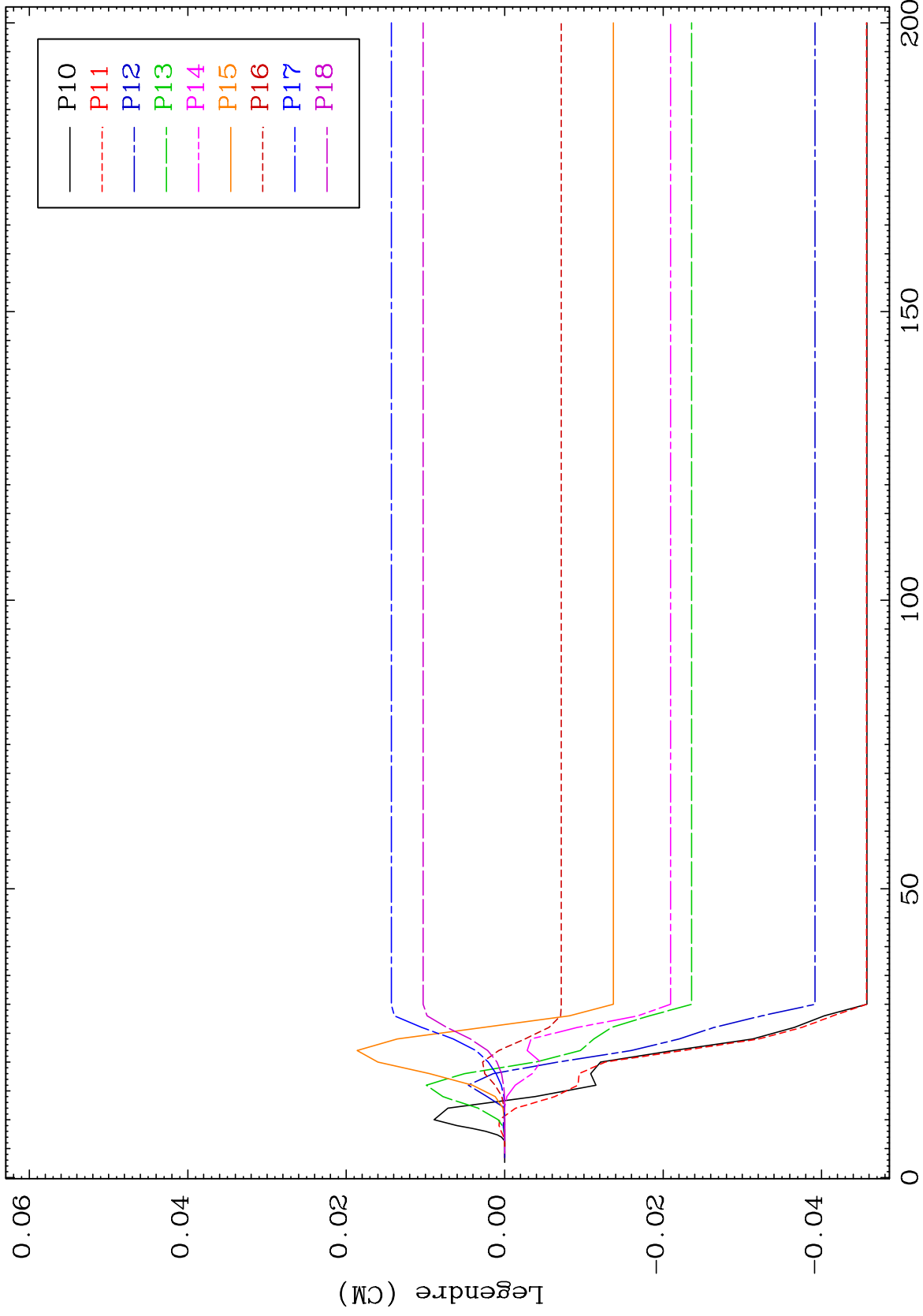
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

56-Ba-137



105

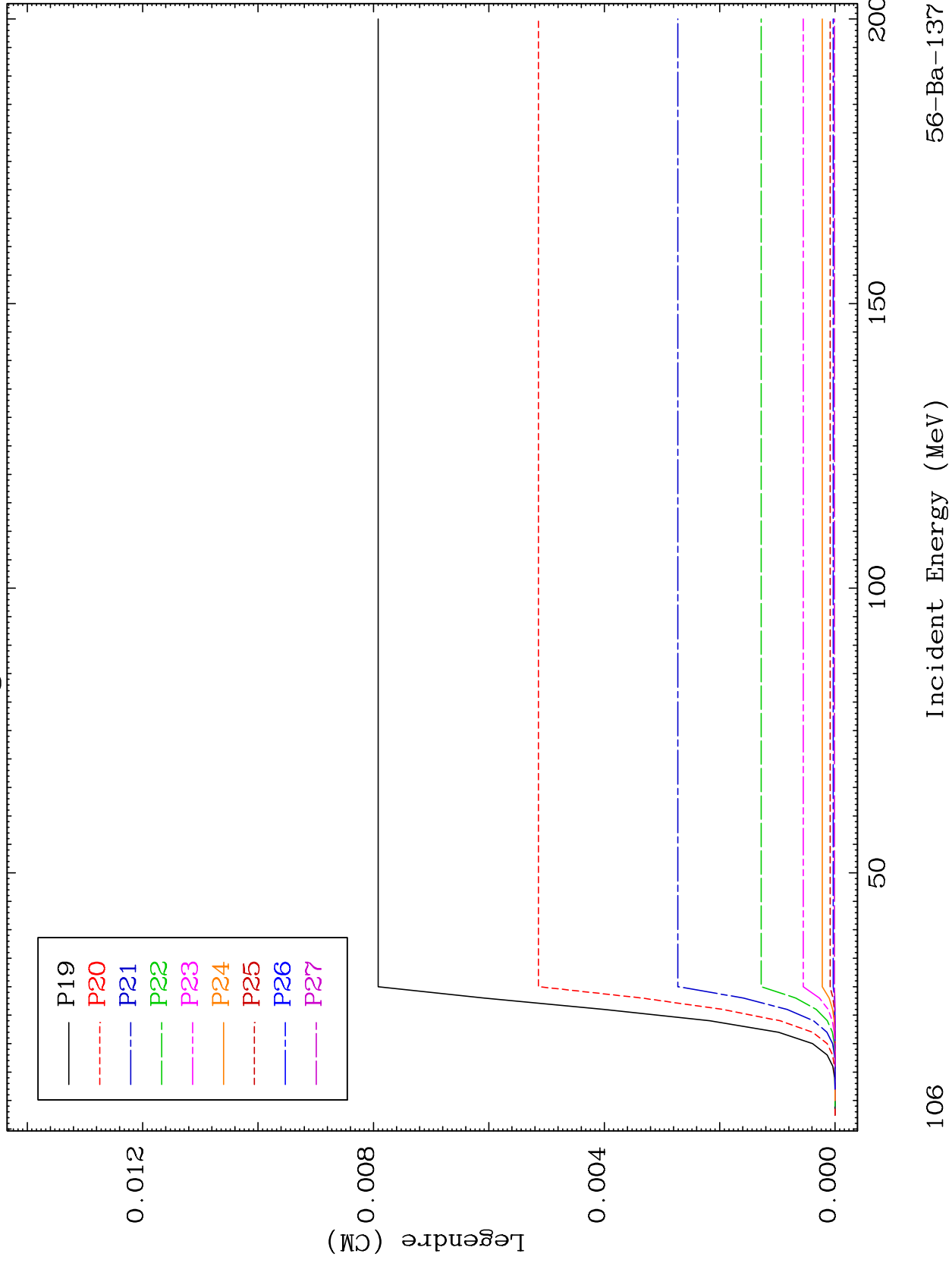
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

56-Ba-137



106

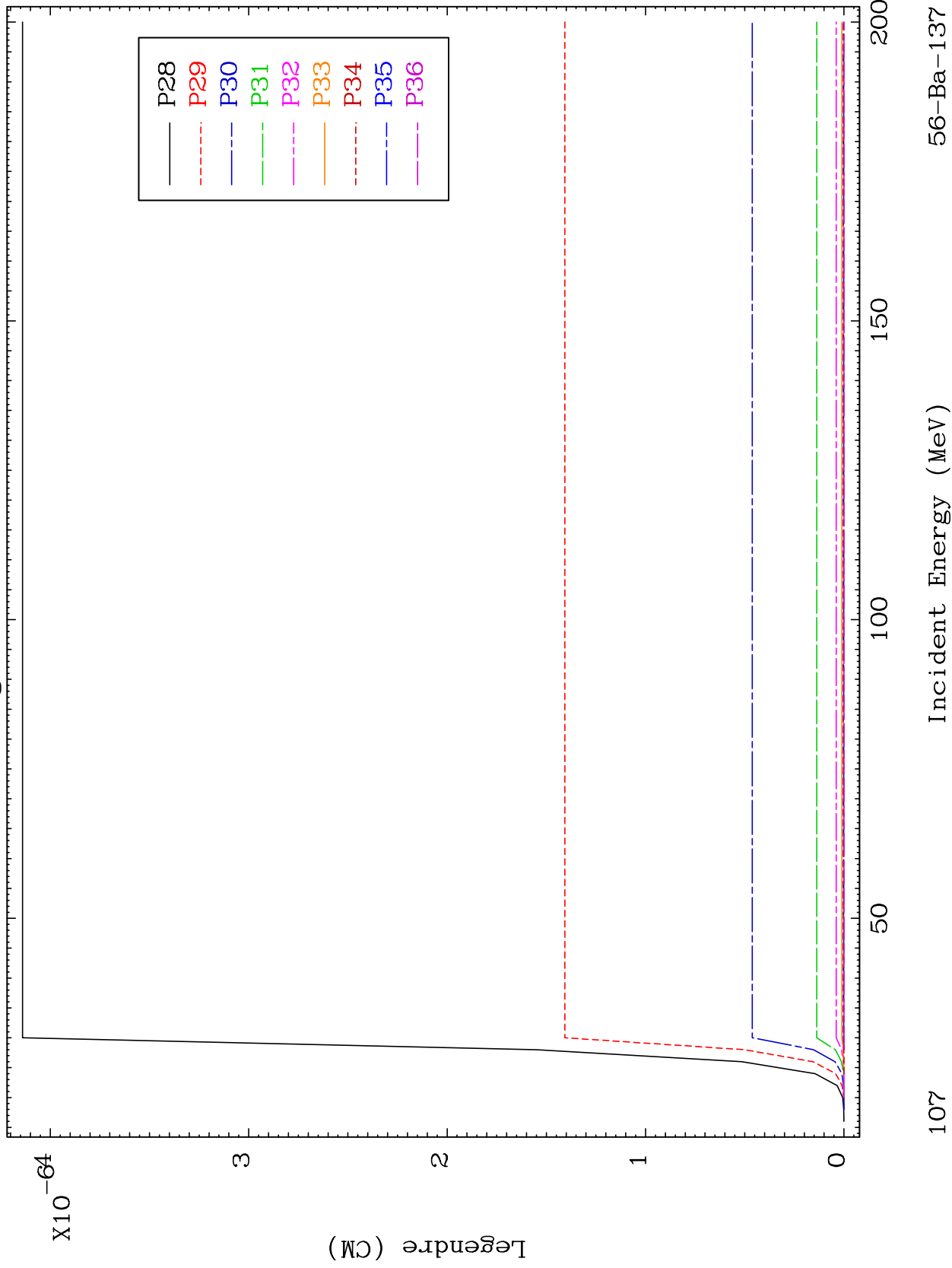
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

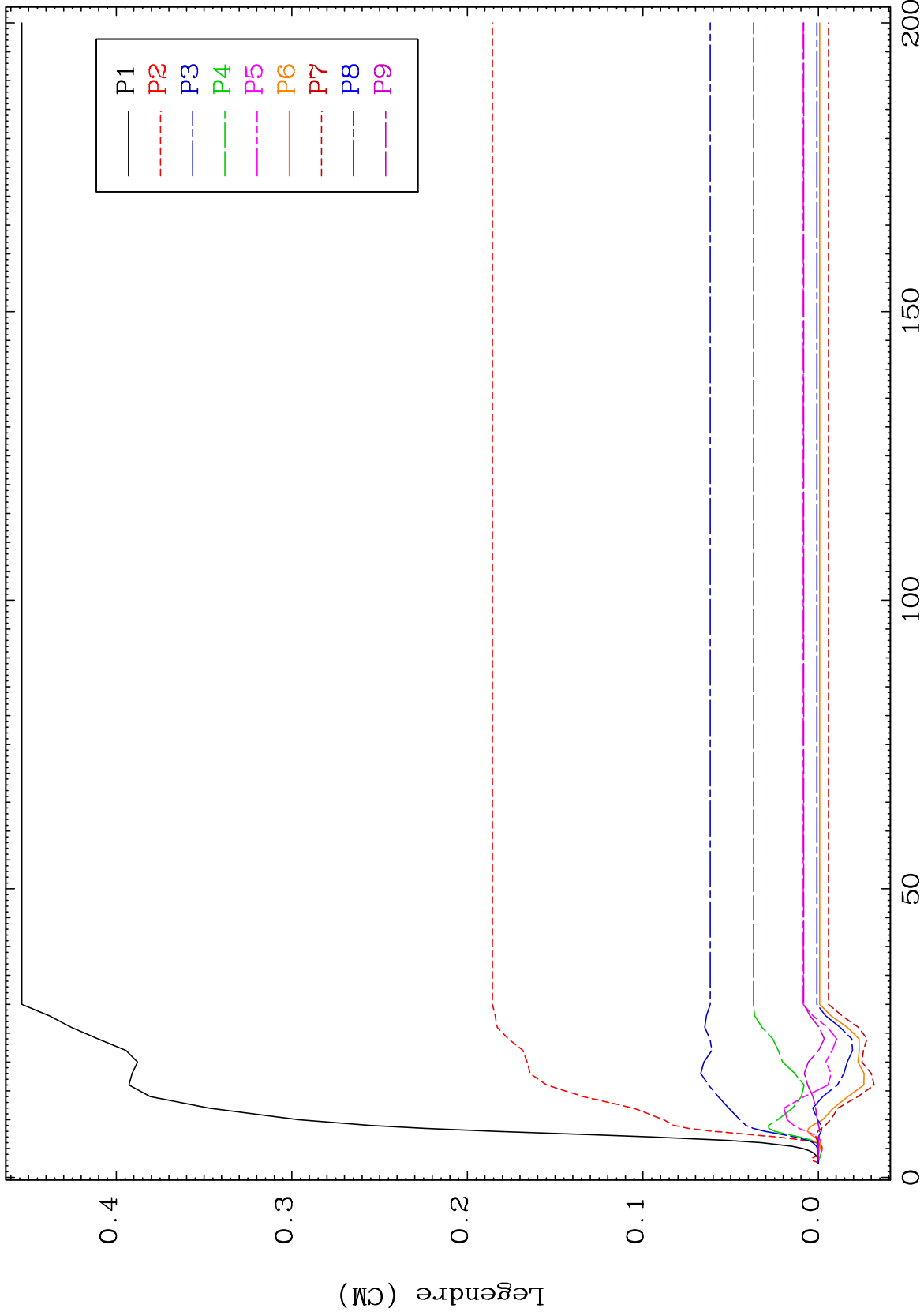
56-Ba-137



MAT 5646

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

56-Ba-137



108

Incident Energy (MeV)

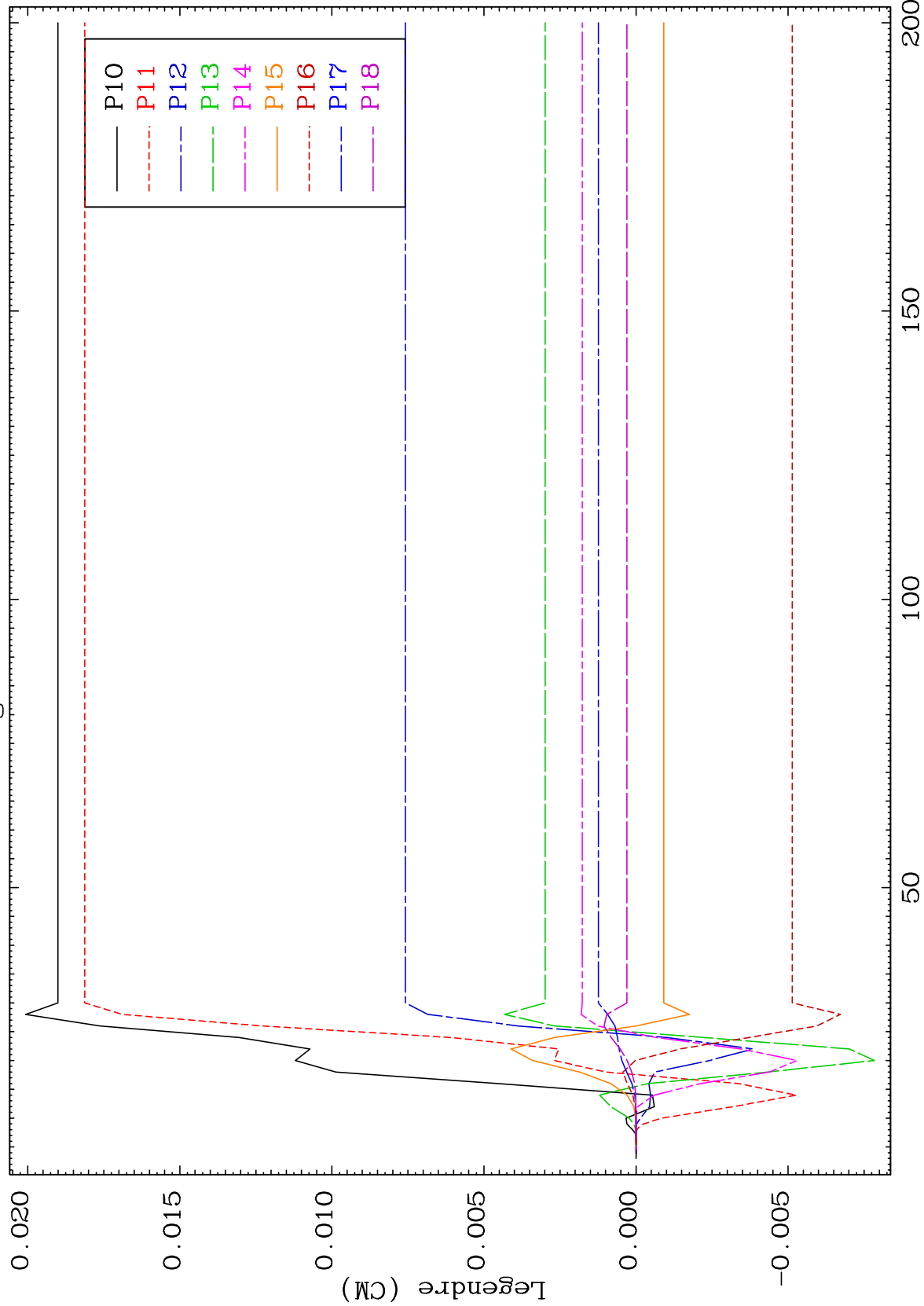
56-Ba-137

MAT 5646

MT= 73 (n,n') Level

56-Ba-137

Legendre Coefficients



56-Ba-137

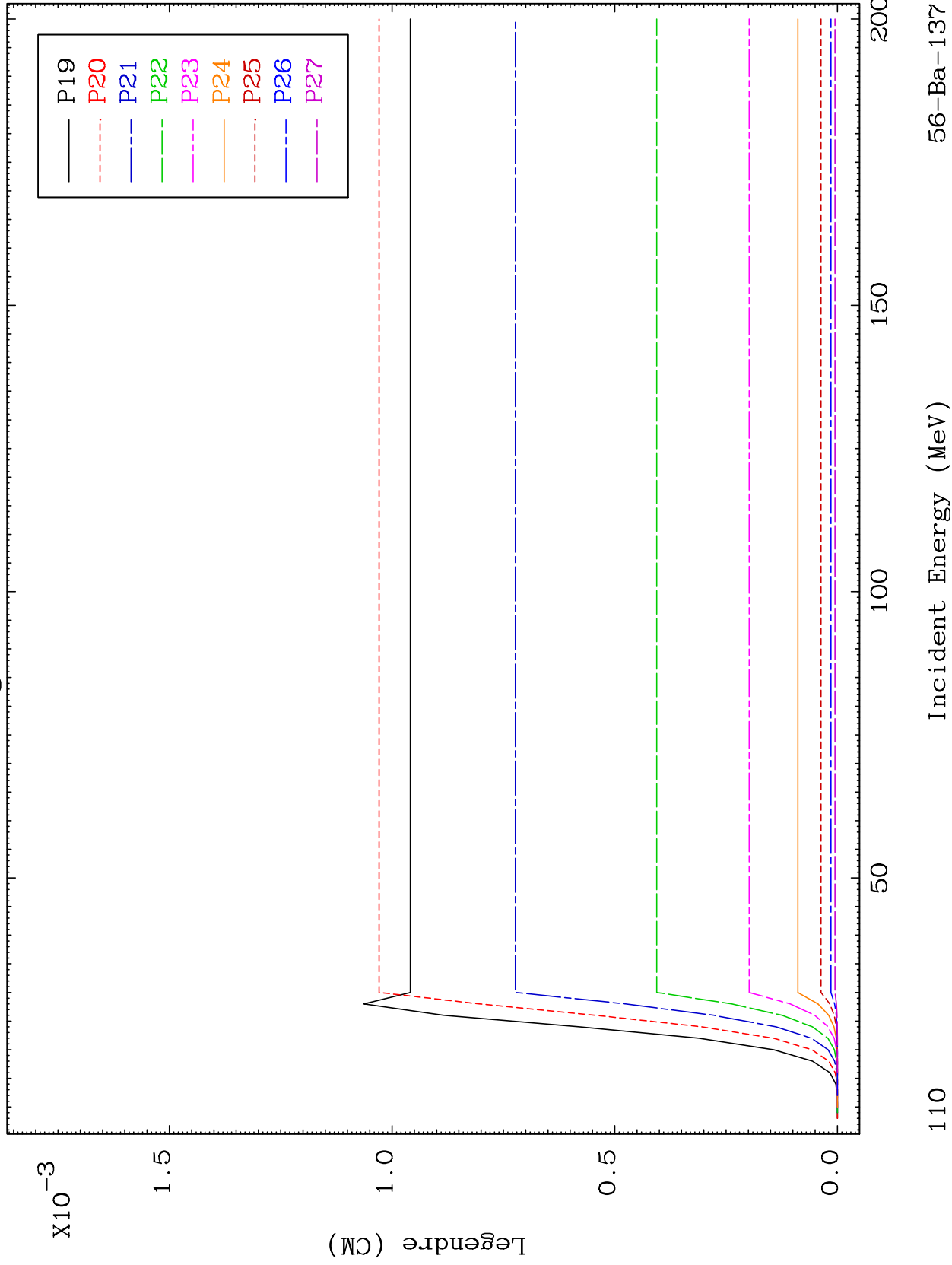
Incident Energy (MeV)

109

MAT 5646

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

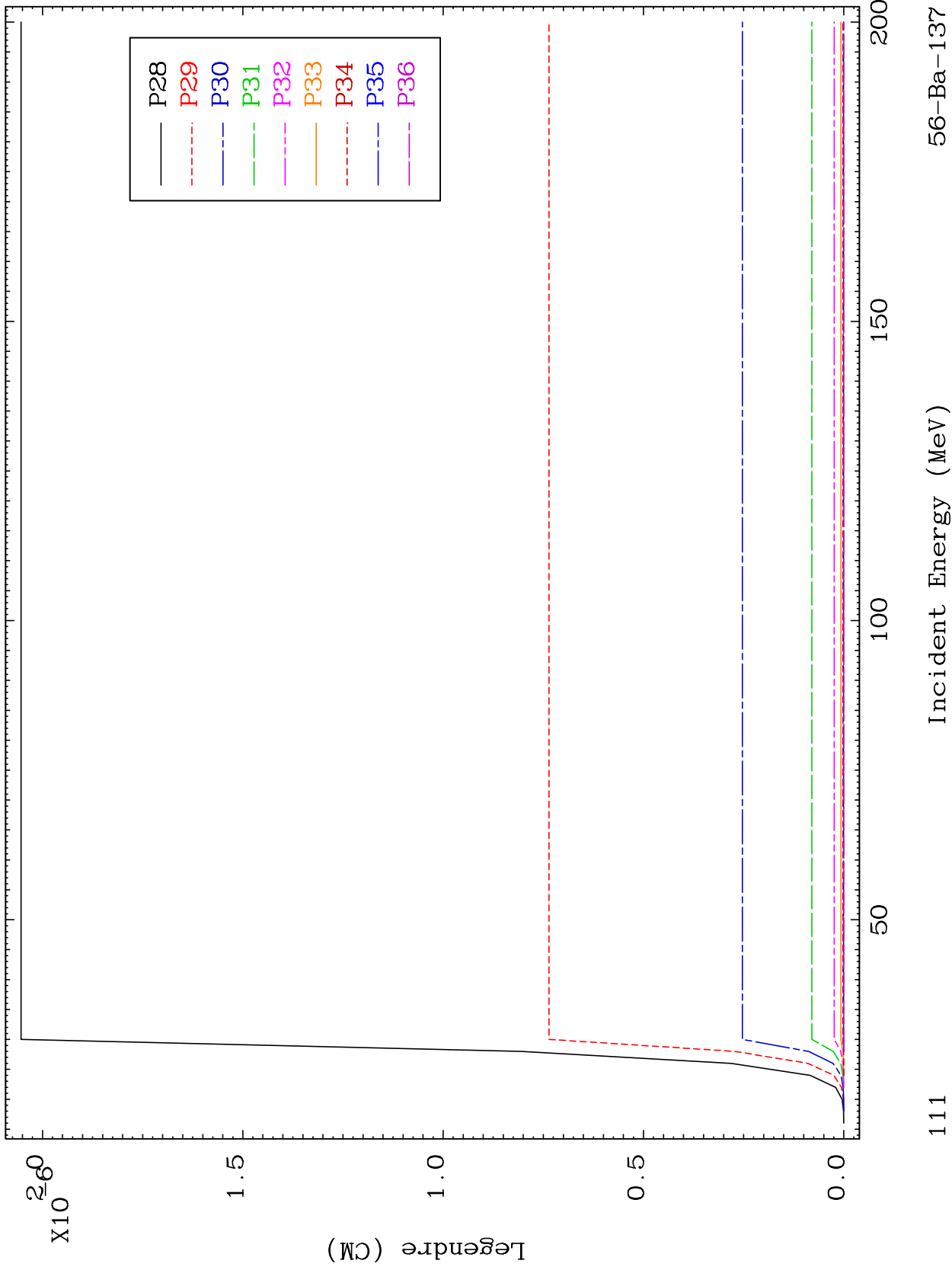
56-Ba-137



MAT 5646

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

56-Ba-137



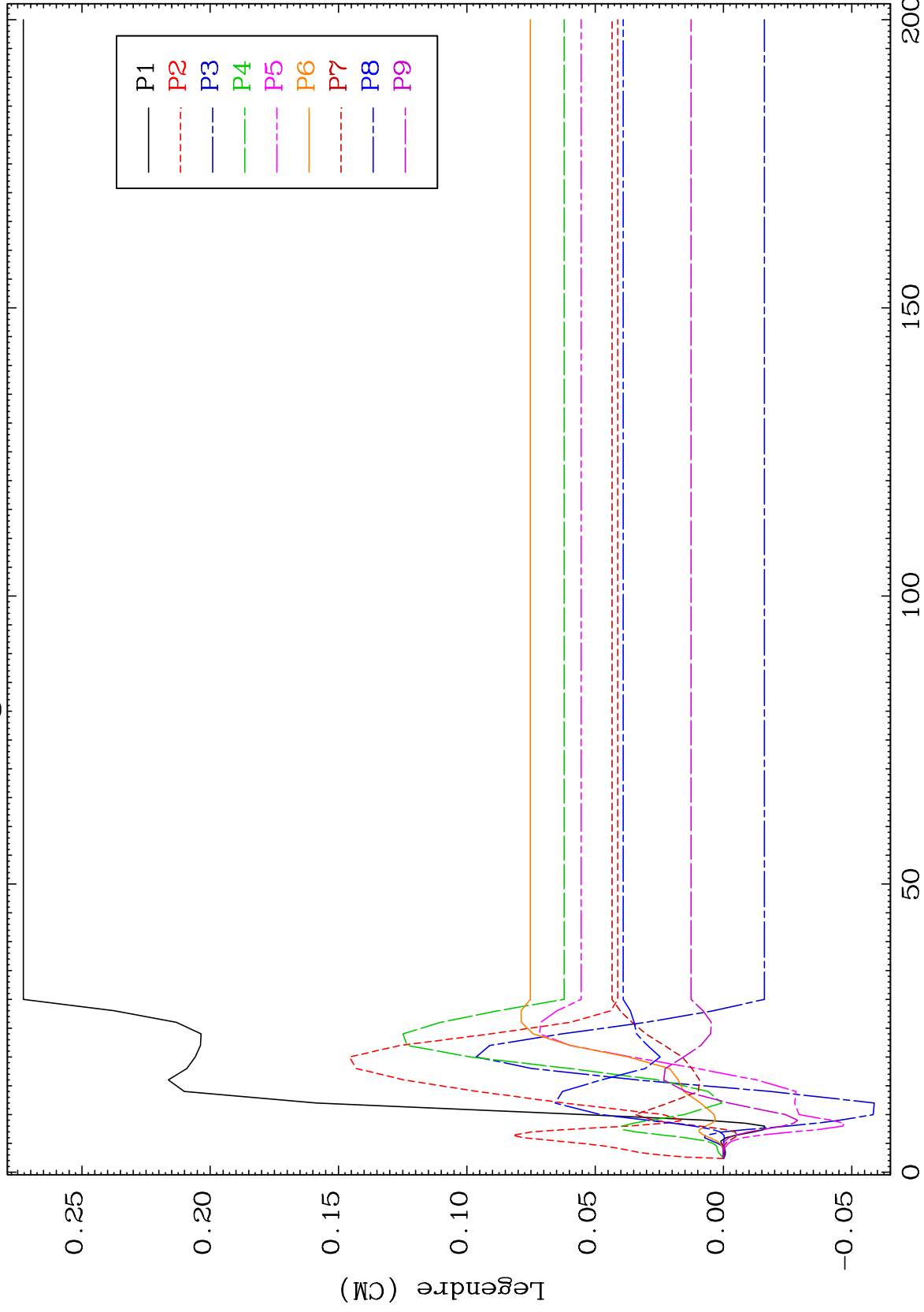
111

56-Ba-137

MAT 5646

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

56-Ba-137



56-Ba-137

Incident Energy (MeV)

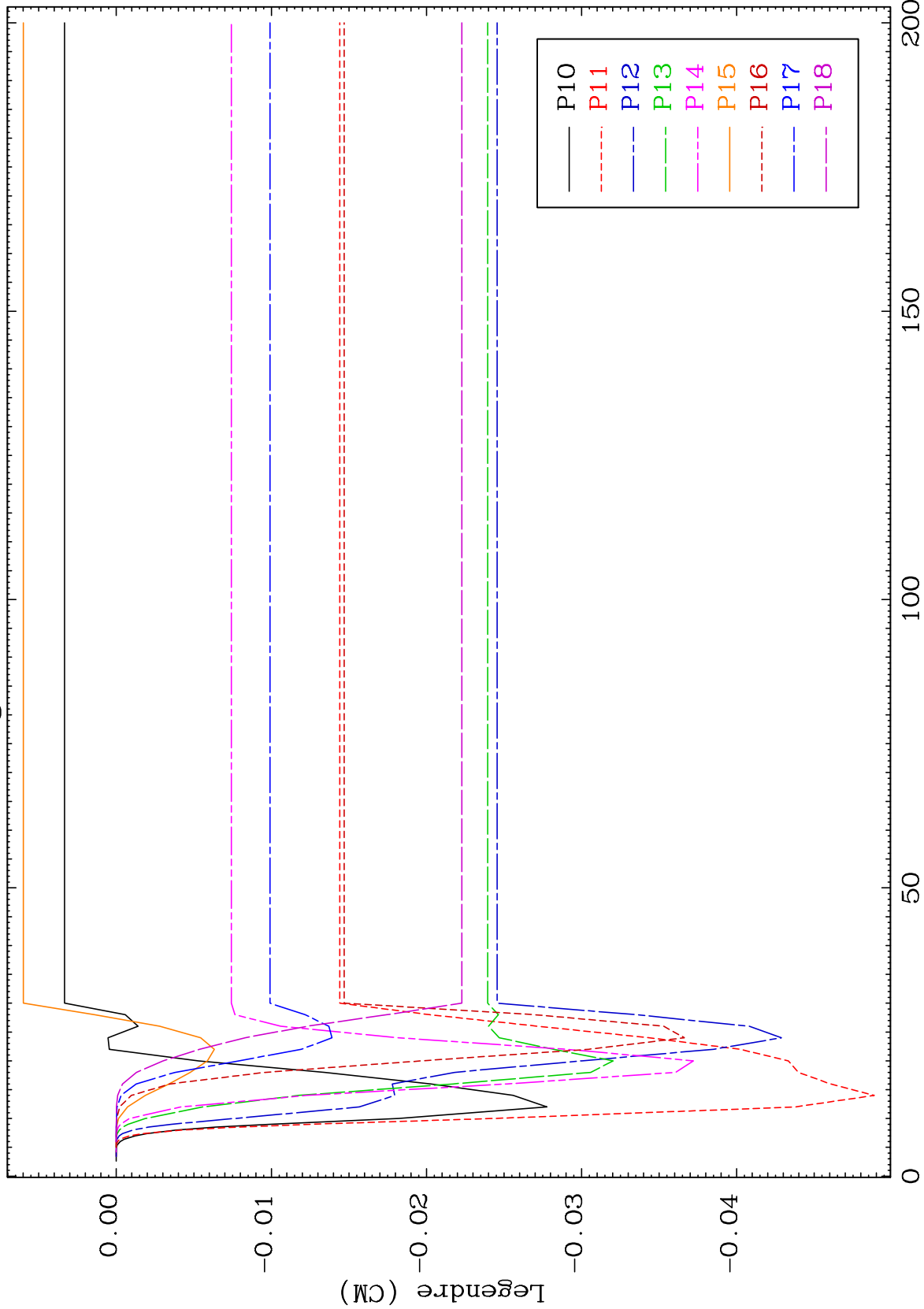
112

MAT 5646

MT= 74 (n,n') Level

56-Ba-137

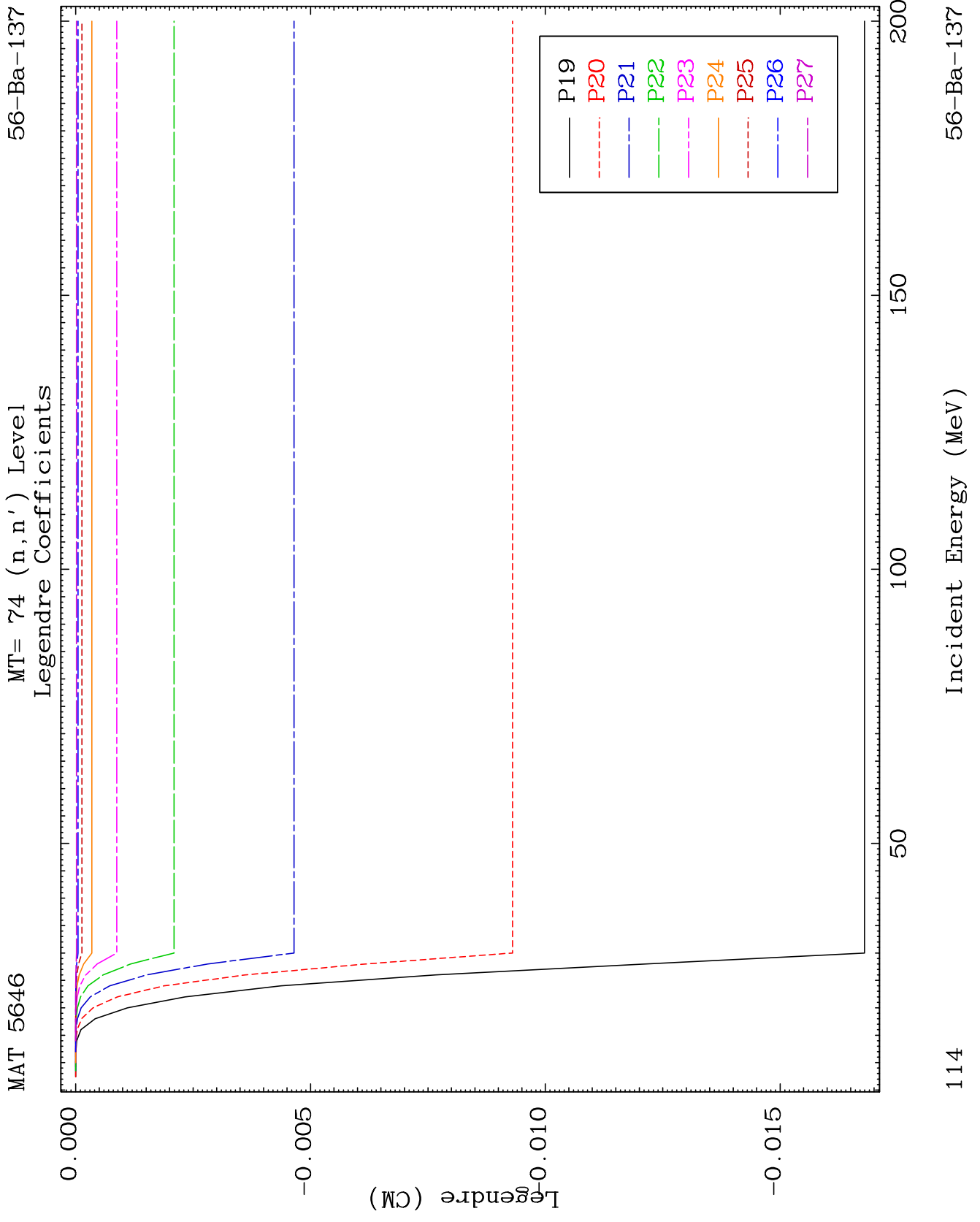
Legendre Coefficients

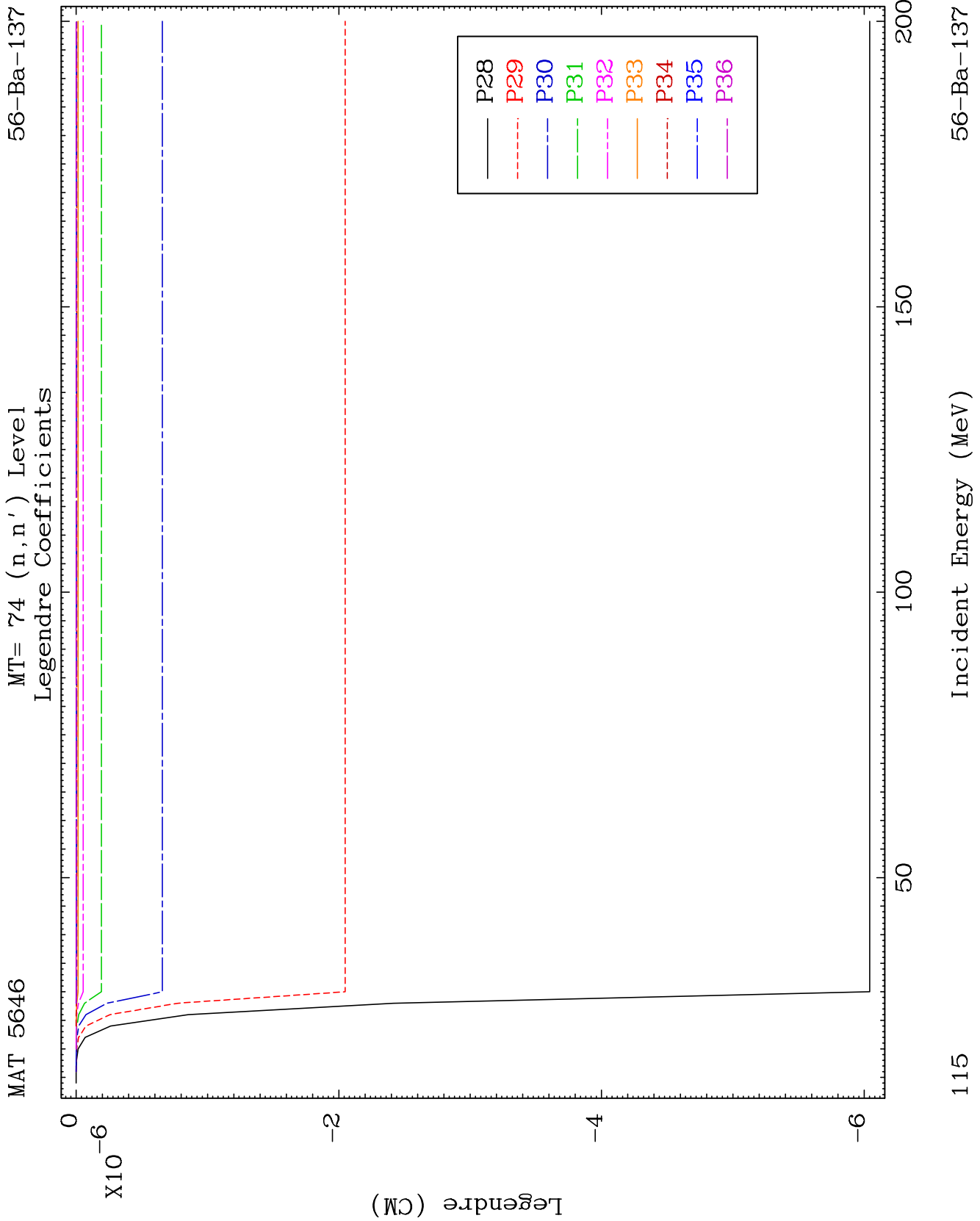


113

Incident Energy (MeV)

56-Ba-137

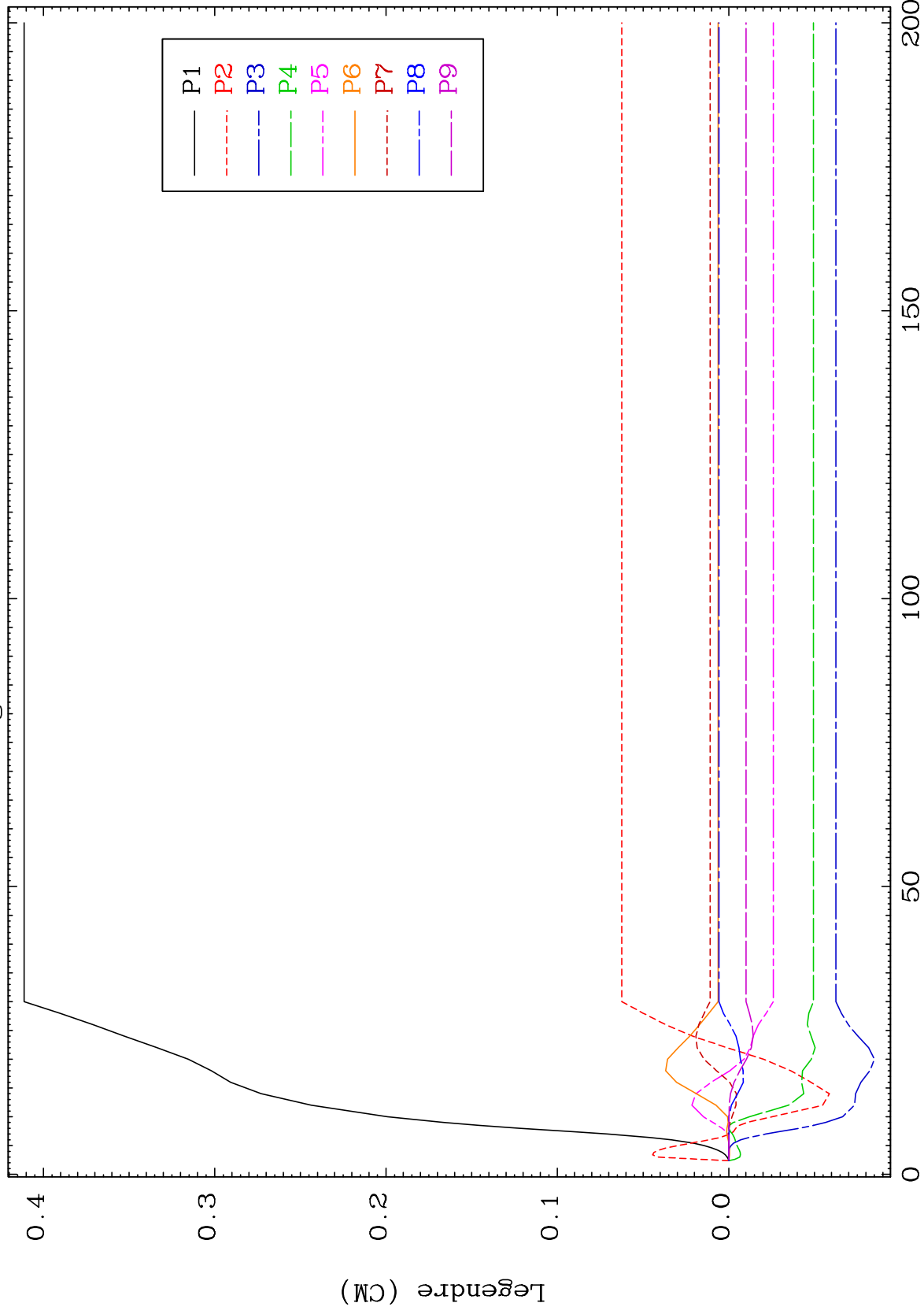




MAT 5646

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

56-Ba-137



116

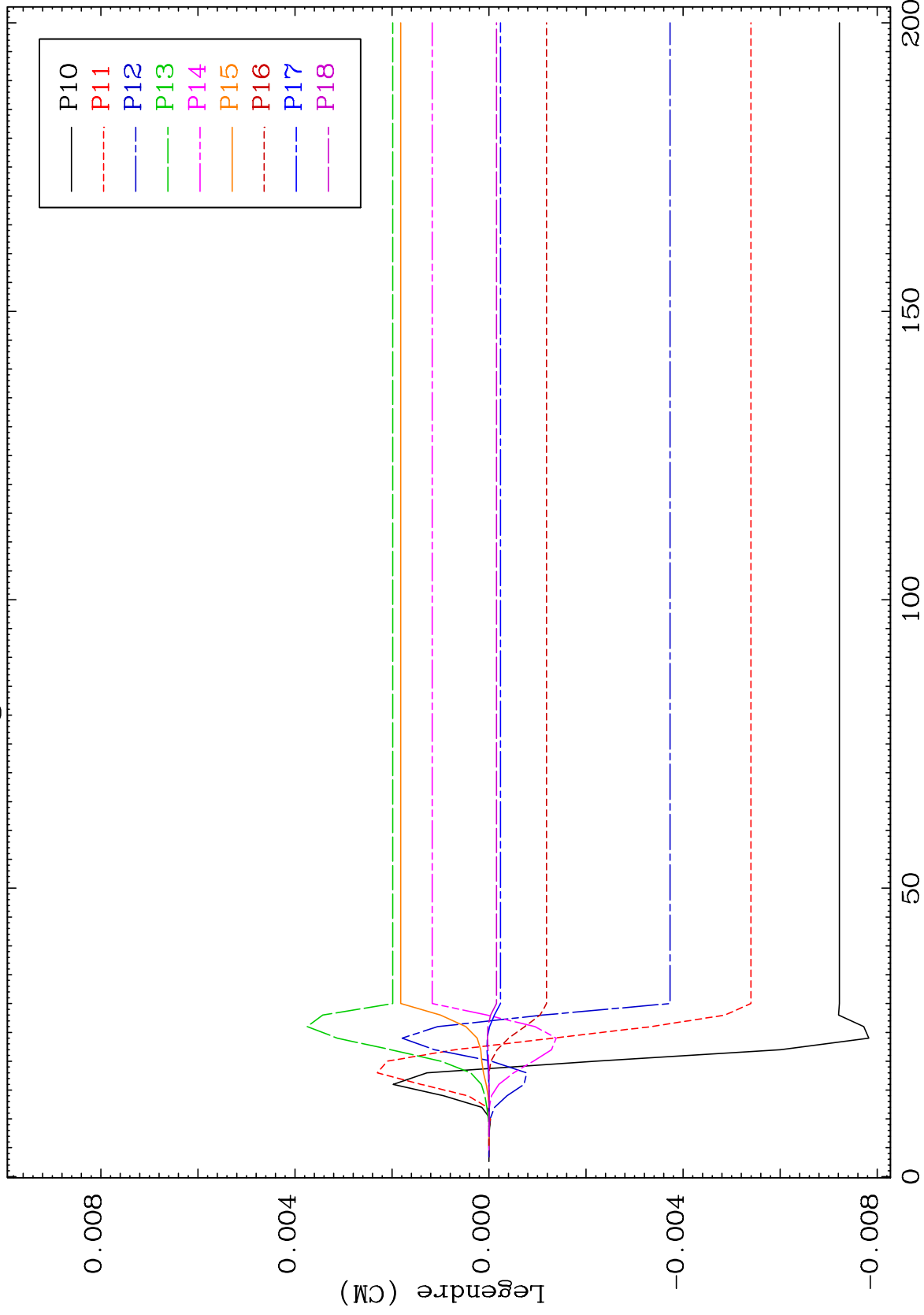
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

56-Ba-137



117

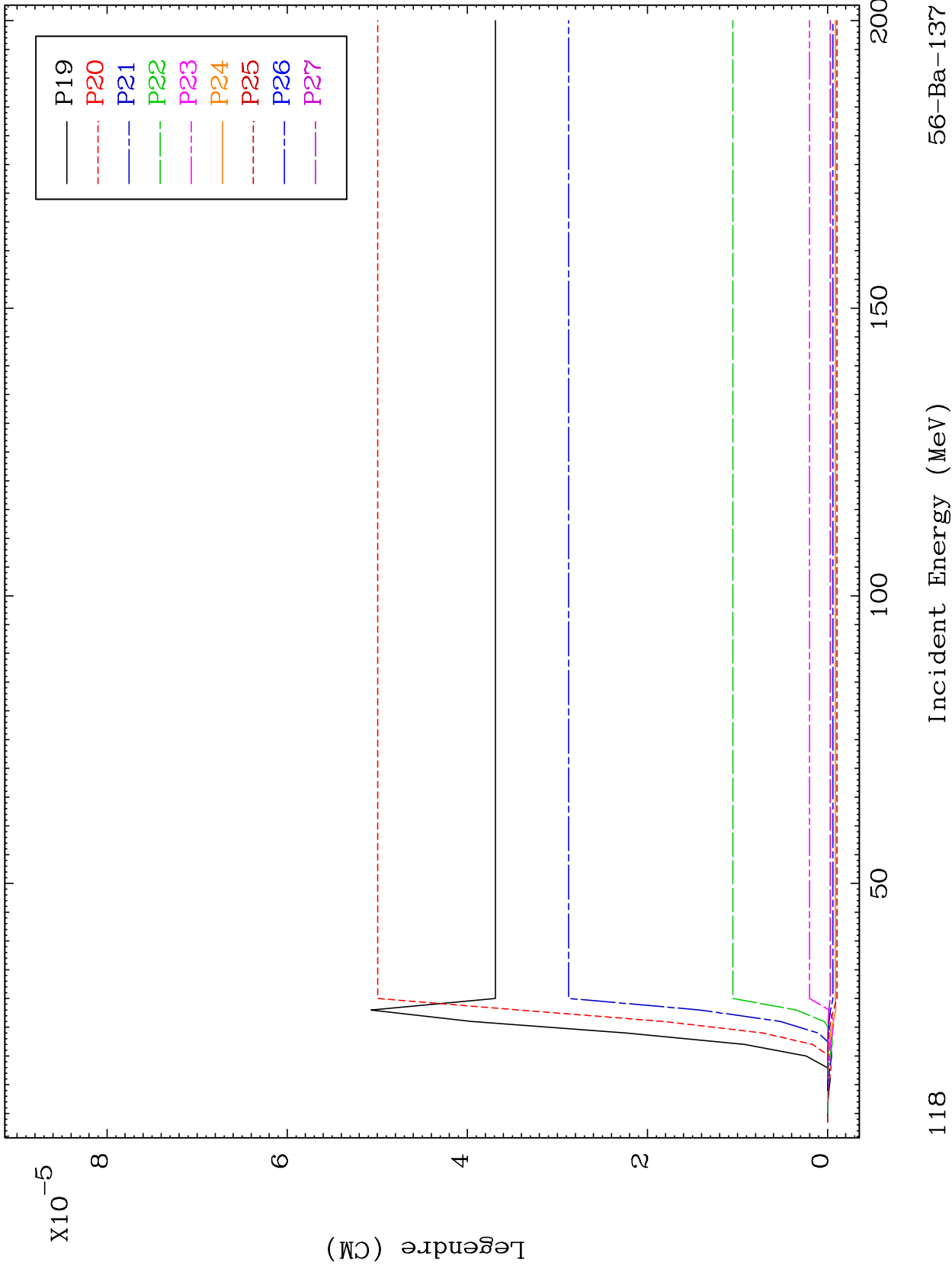
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

56-Ba-137



118

Incident Energy (MeV)

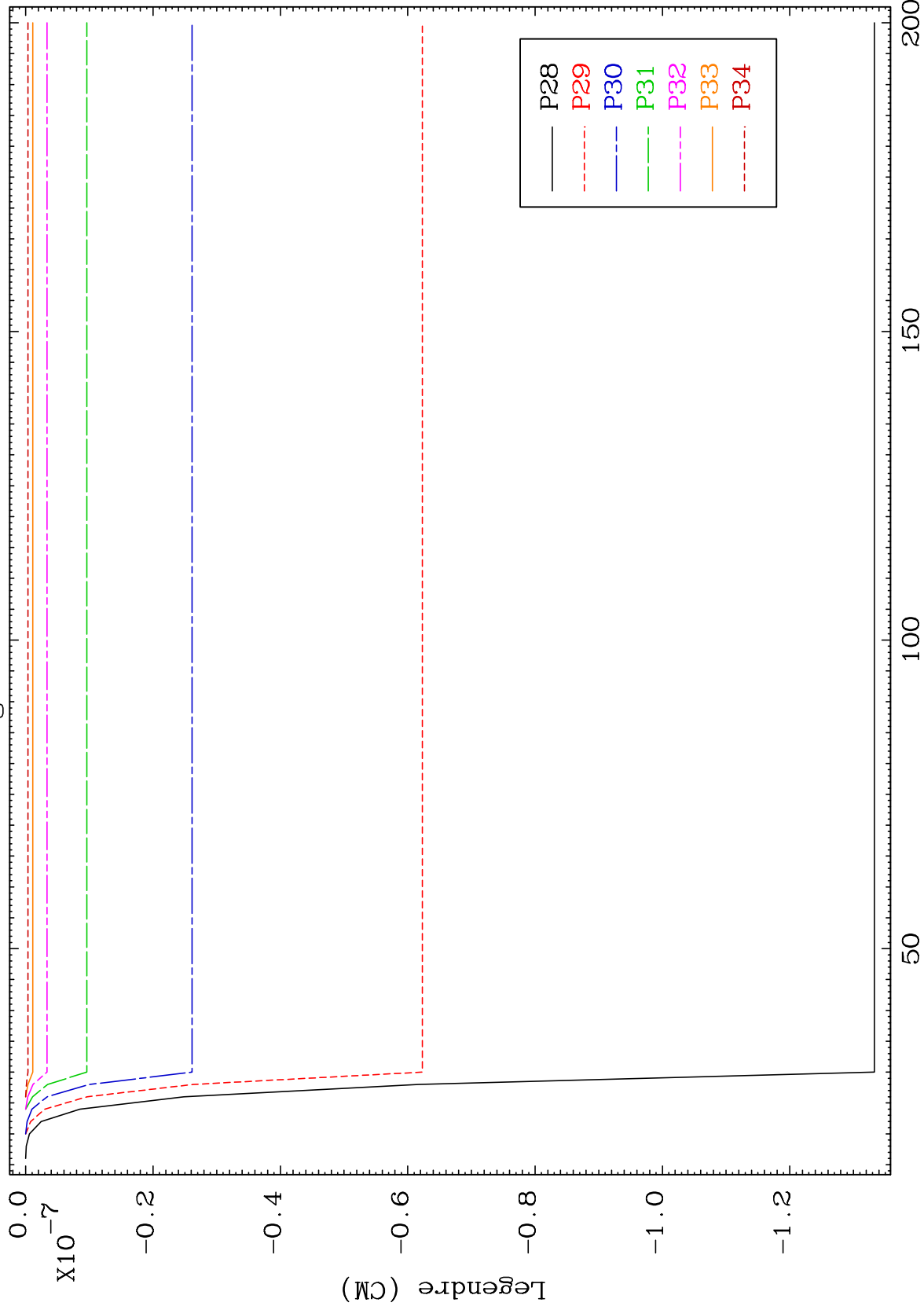
56-Ba-137

MAT 5646

MT= 75 (n,n') Level

56-Ba-137

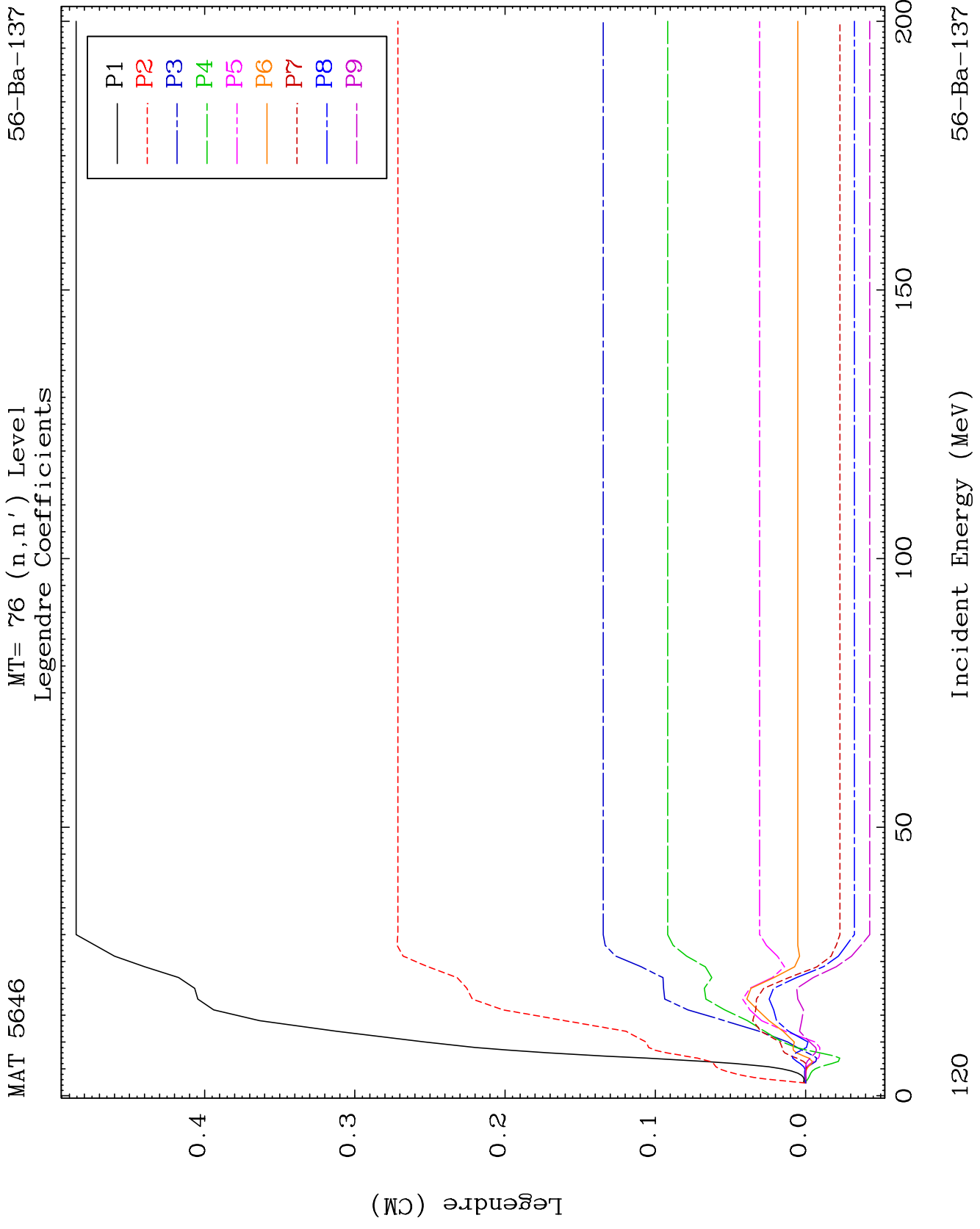
Legendre Coefficients



119

Incident Energy (MeV)

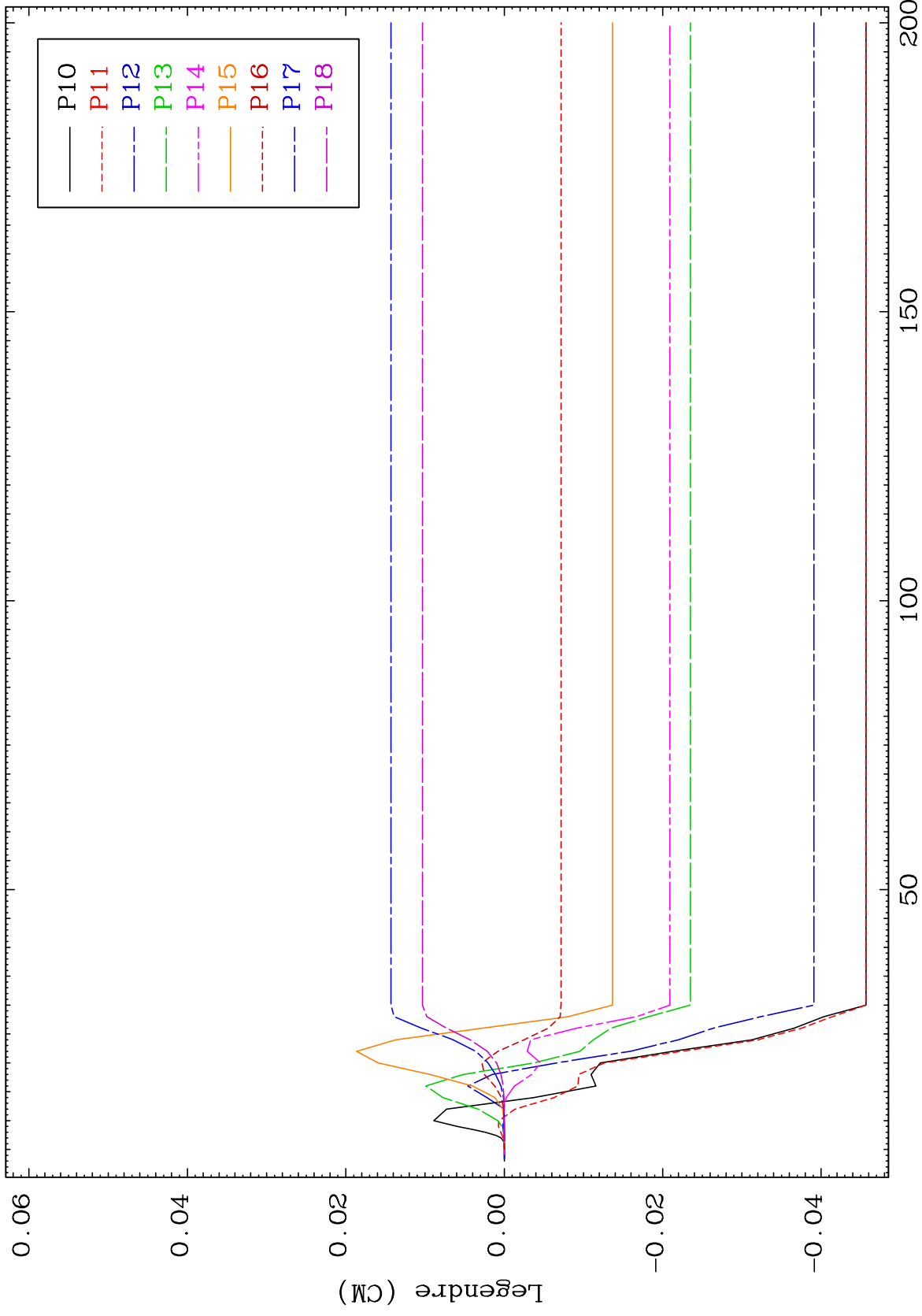
56-Ba-137



MAT 5646

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

56-Ba-137



121

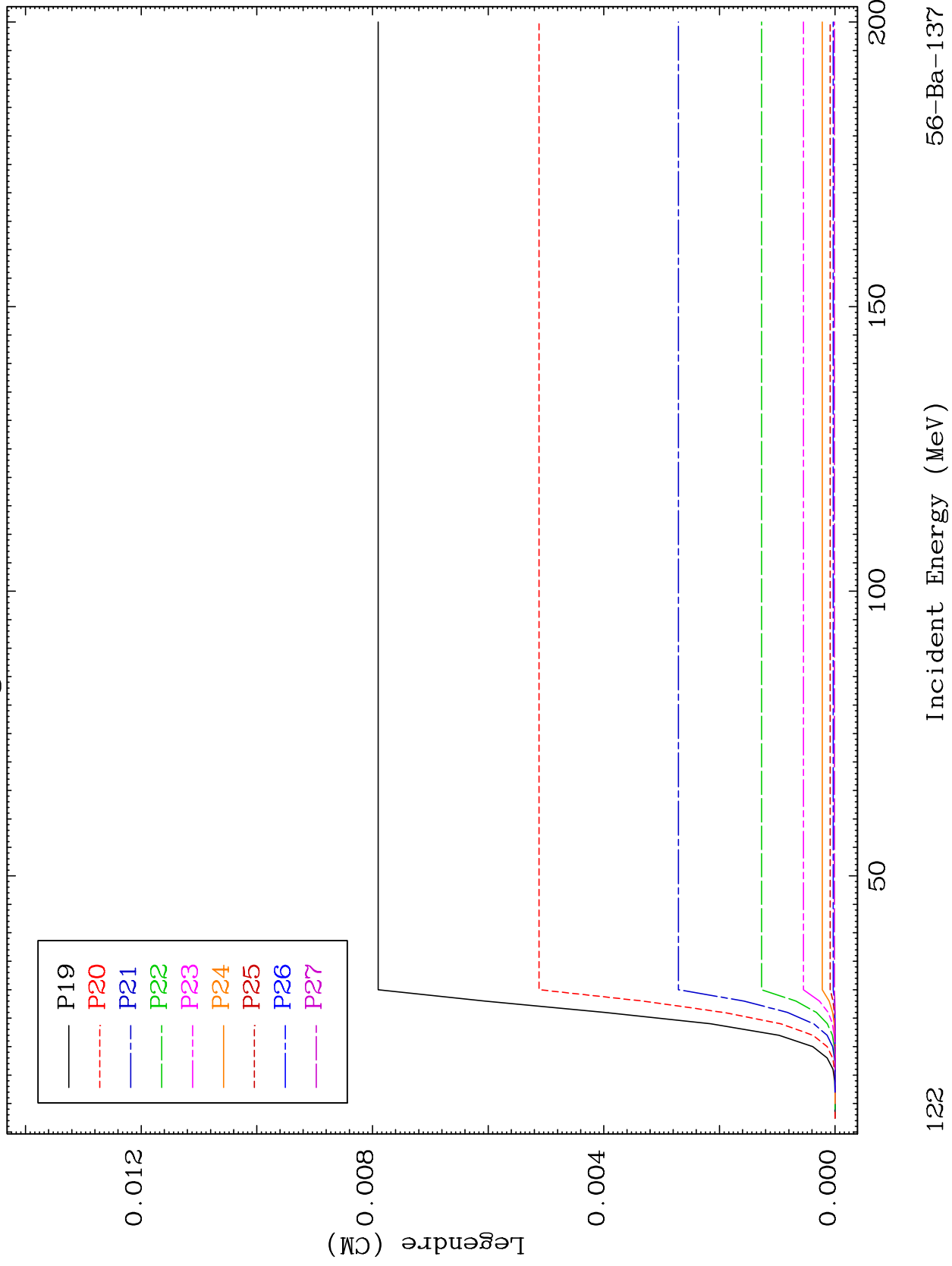
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

56-Ba-137



122

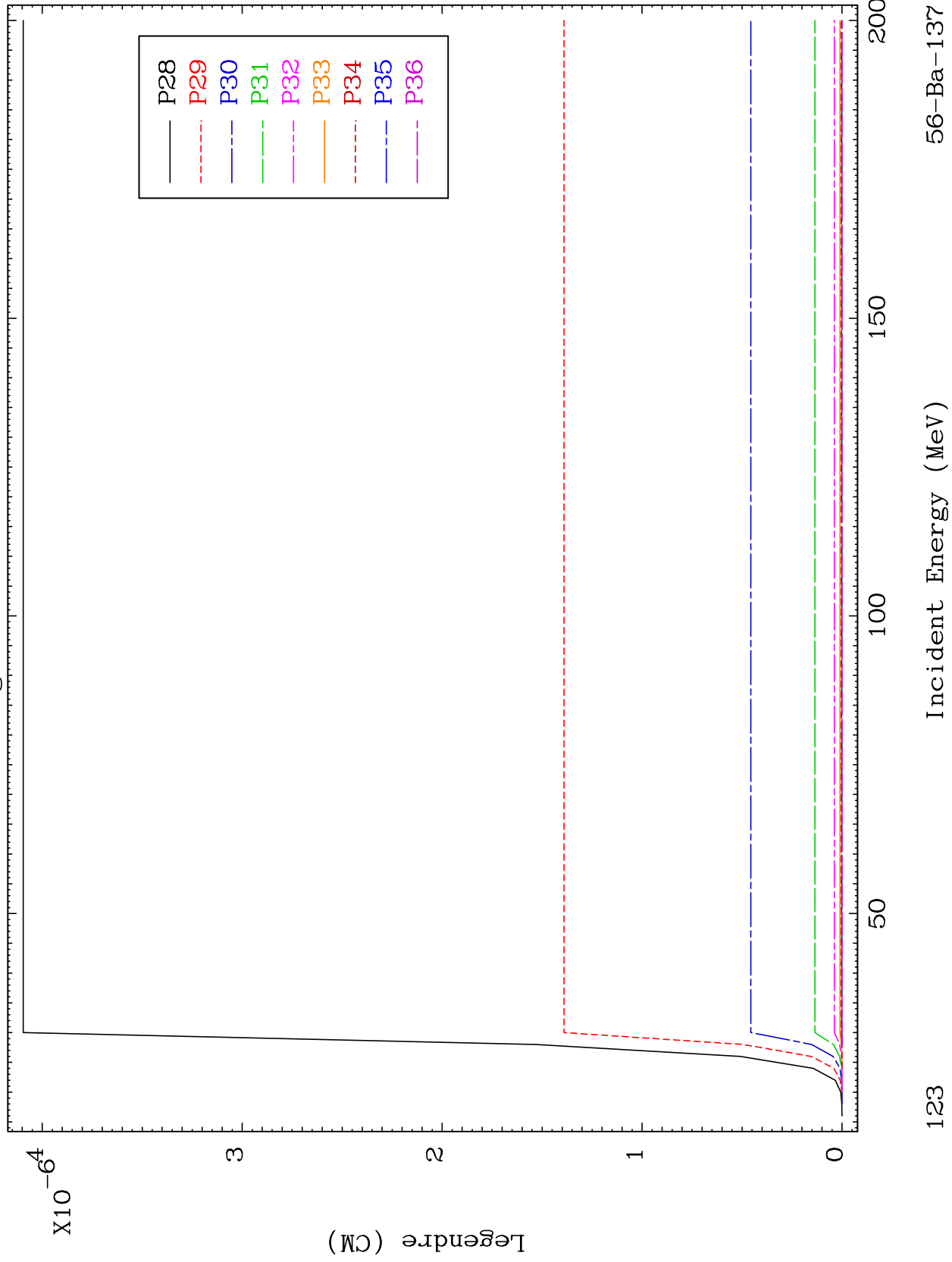
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

56-Ba-137

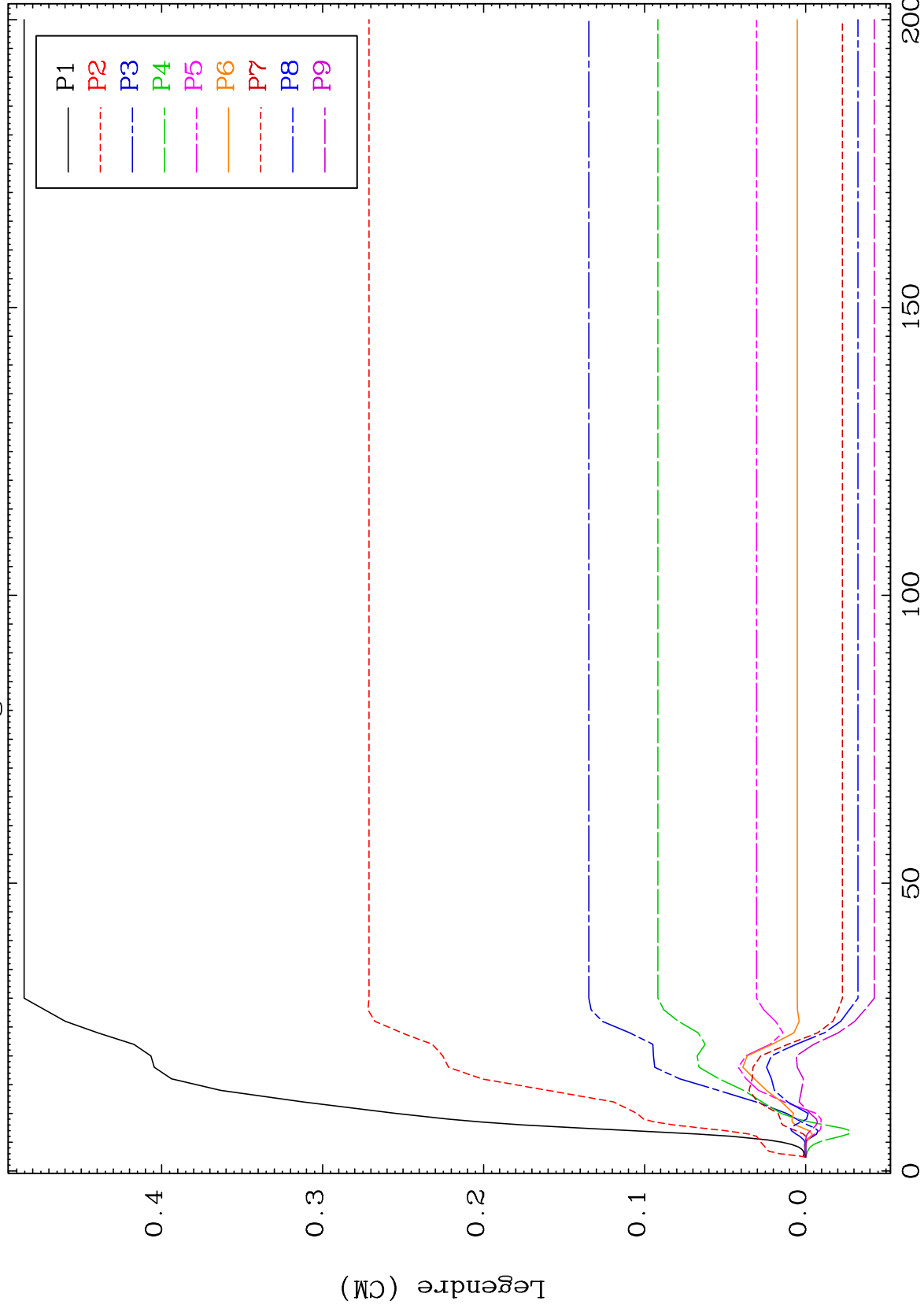


123

MAT 5646

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

56-Ba-137



124

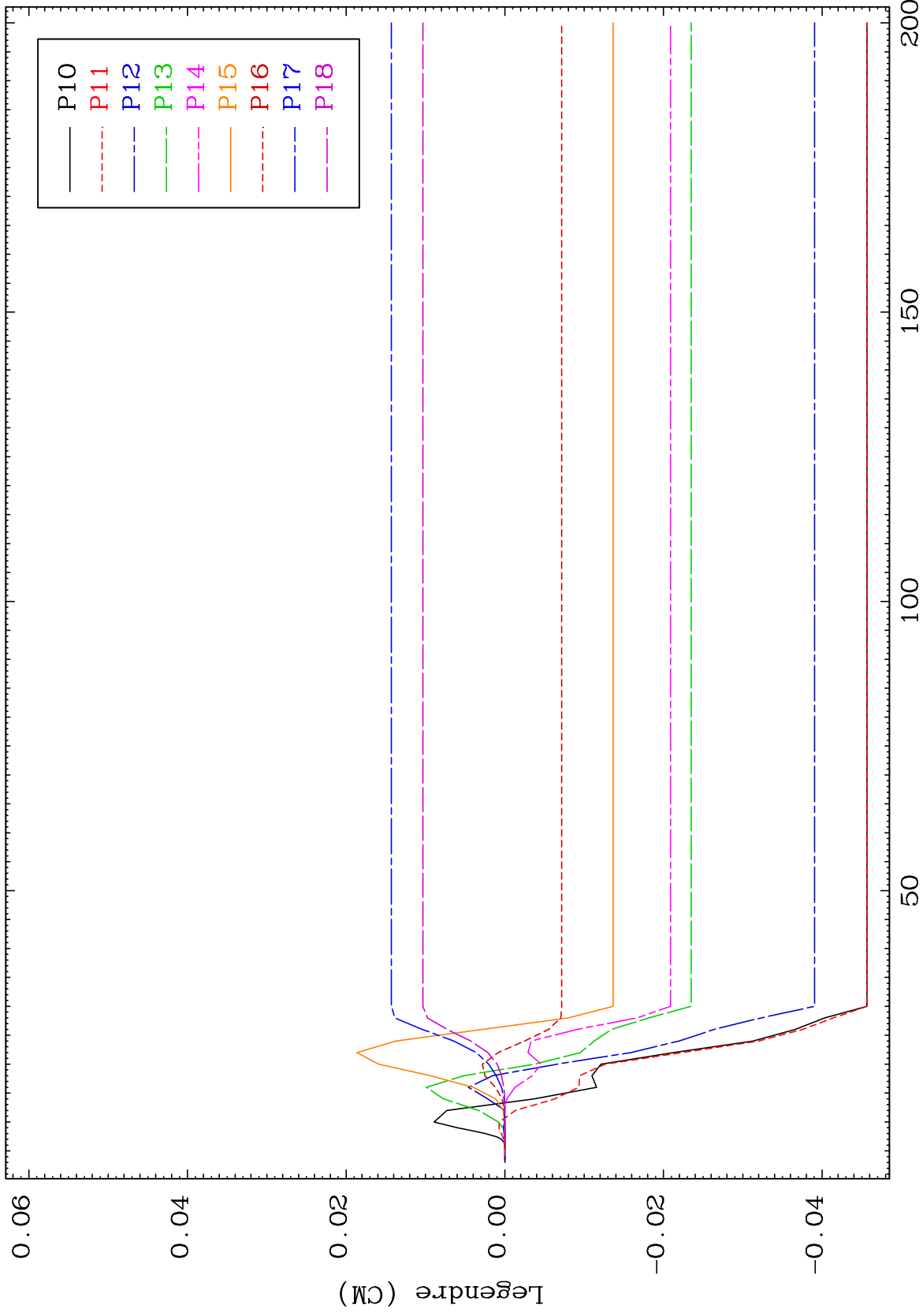
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

56-Ba-137



125

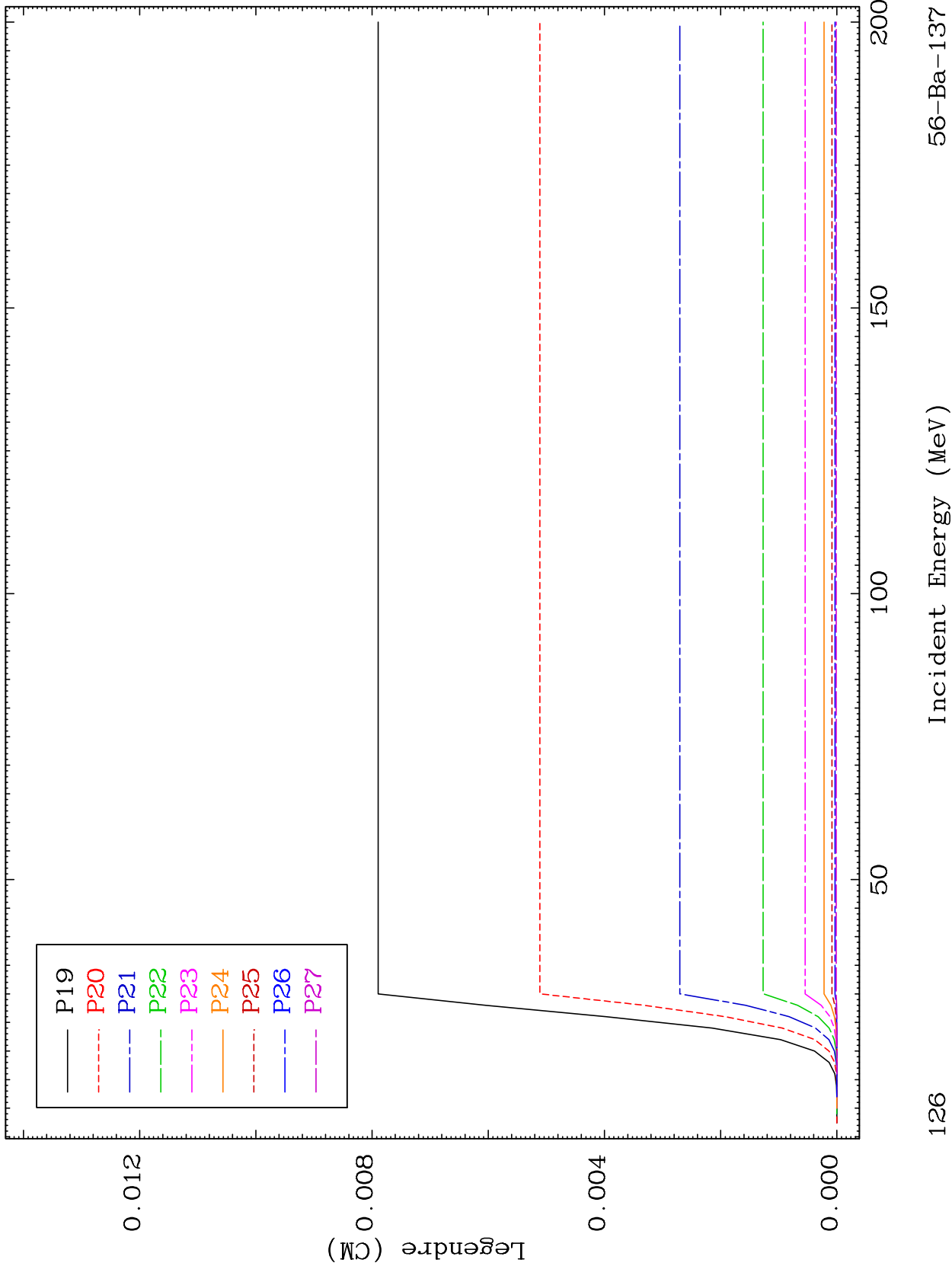
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

56-Ba-137



126

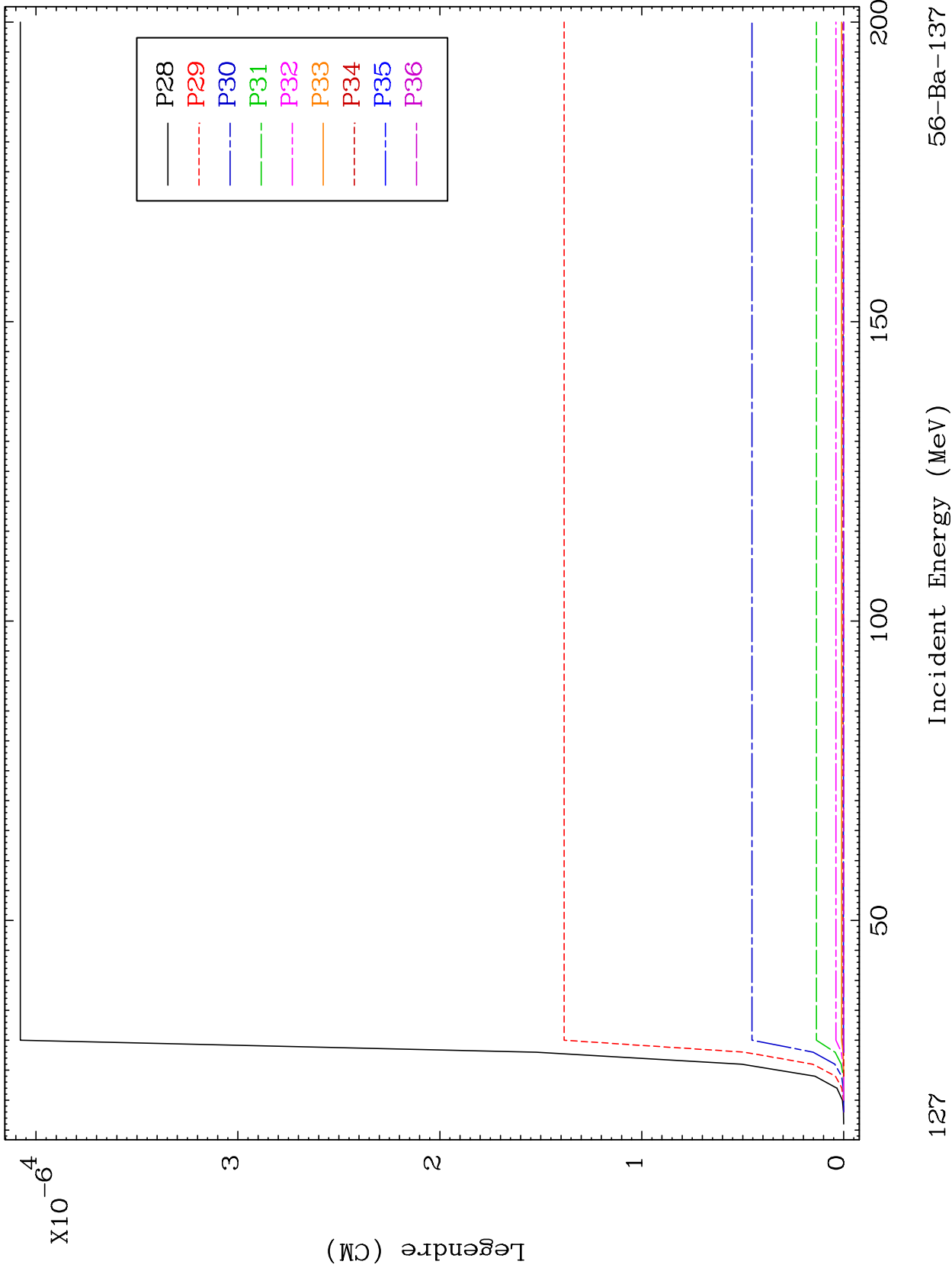
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

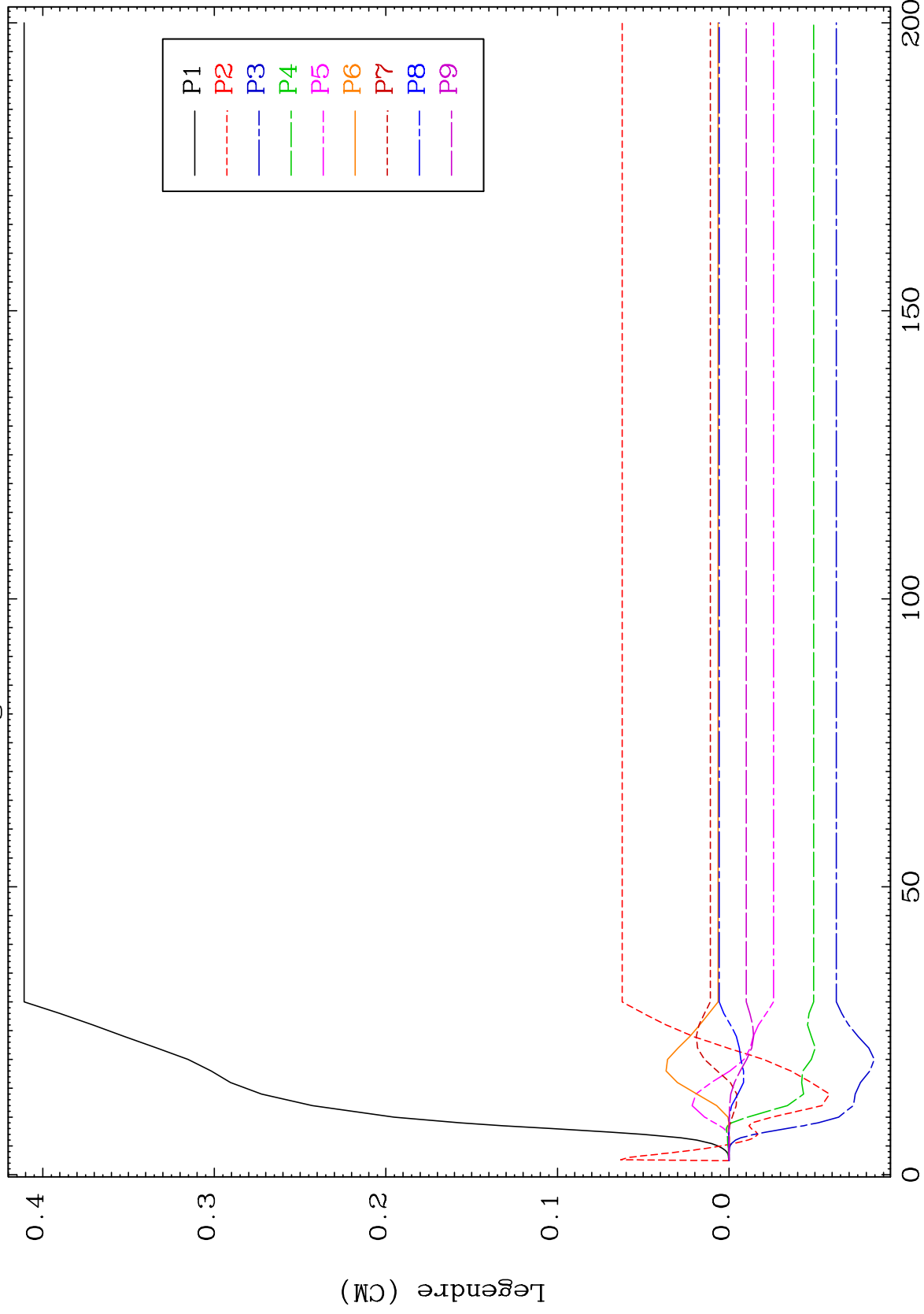
56-Ba-137



MAT 5646

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

56-Ba-137



128

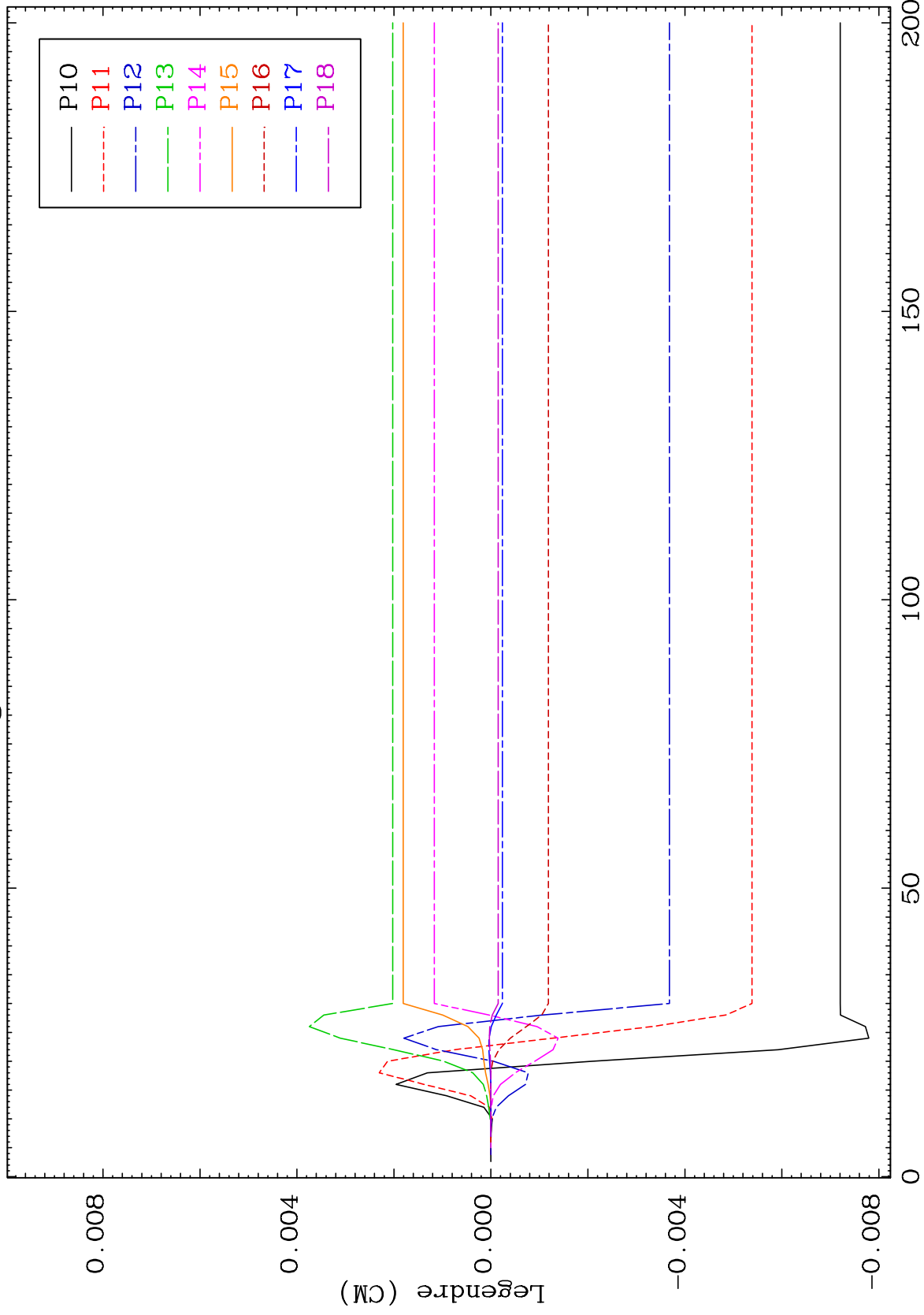
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

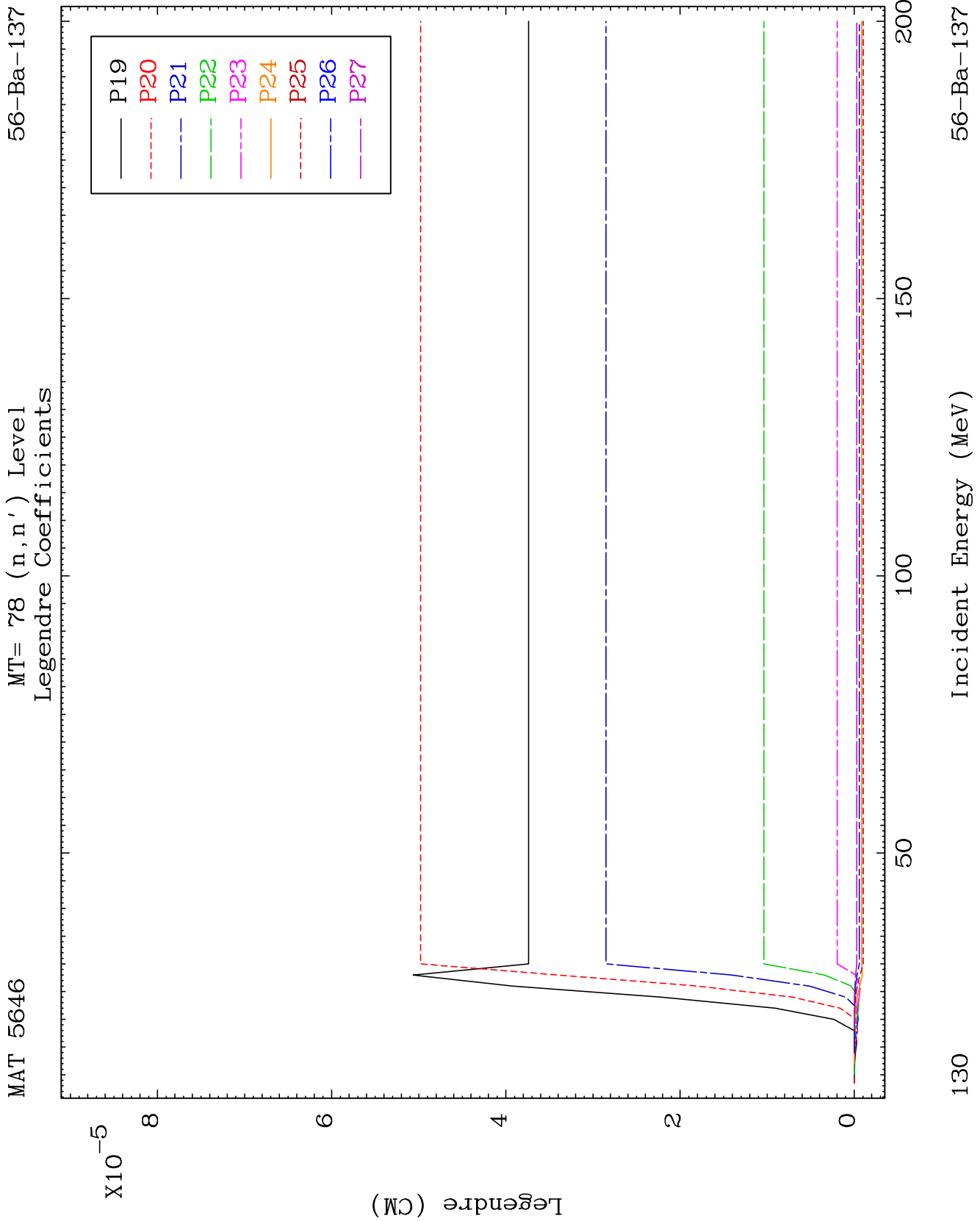
56-Ba-137

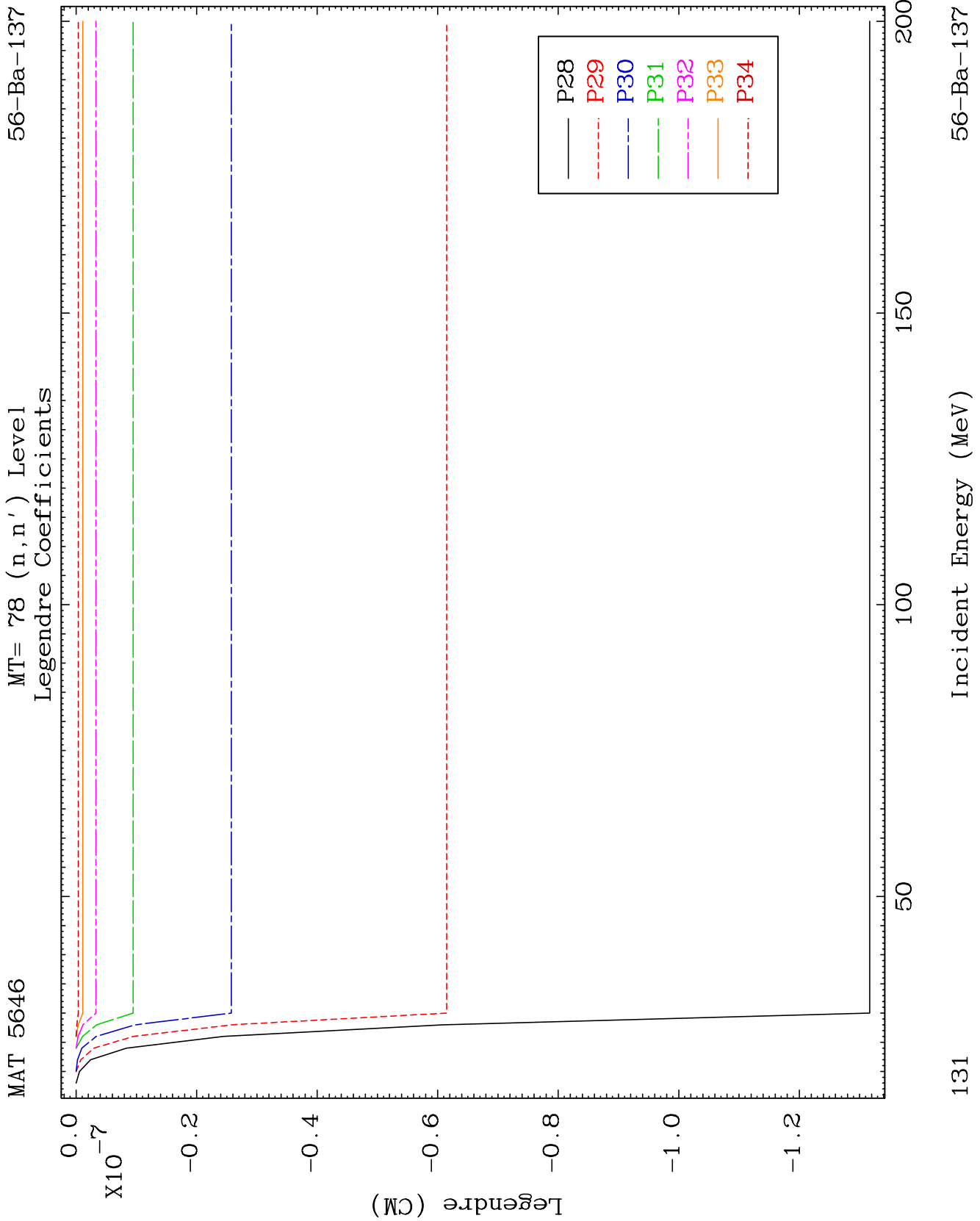


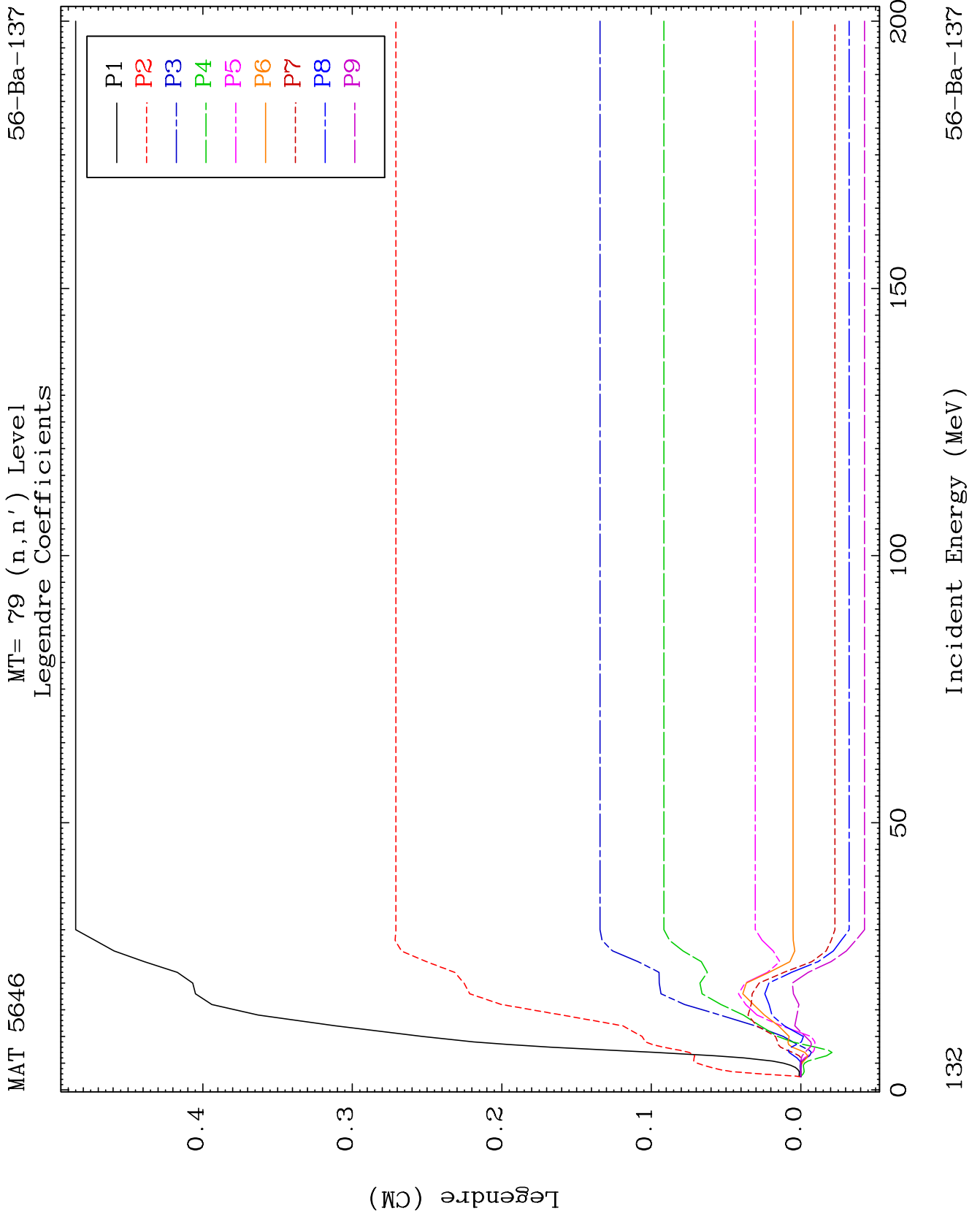
129

Incident Energy (MeV)

56-Ba-137



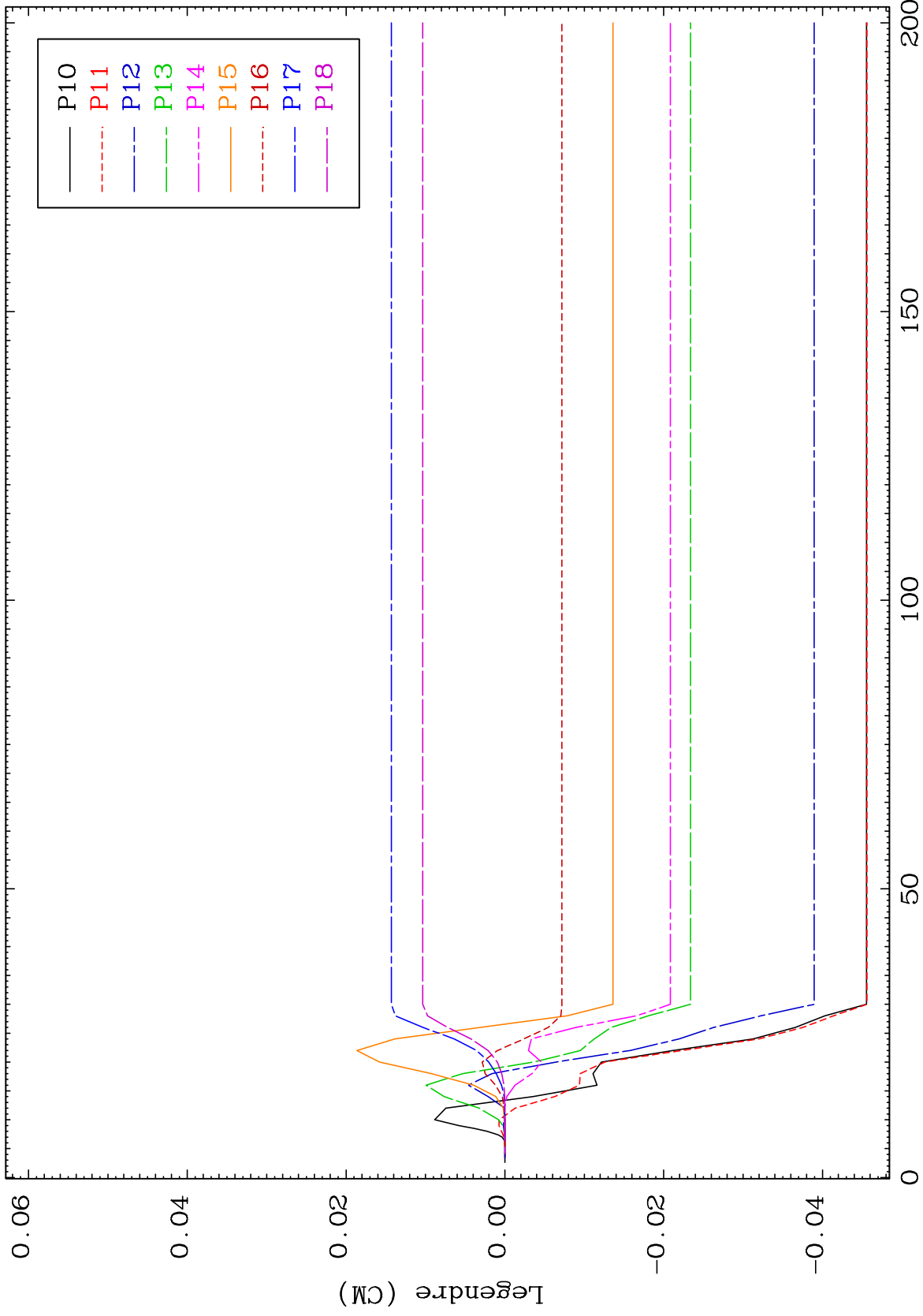




MAT 5646

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

56-Ba-137



133

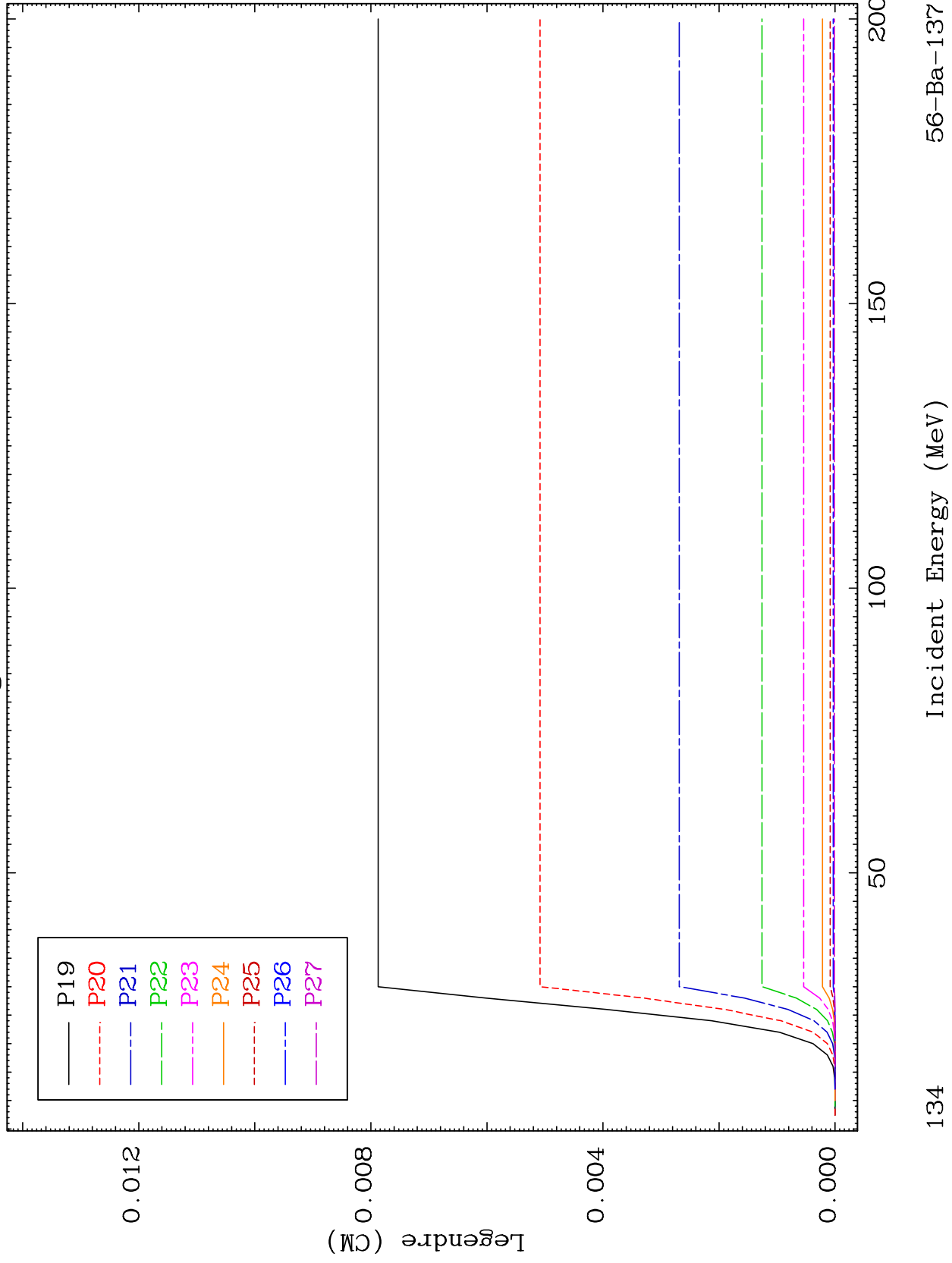
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

56-Ba-137



134

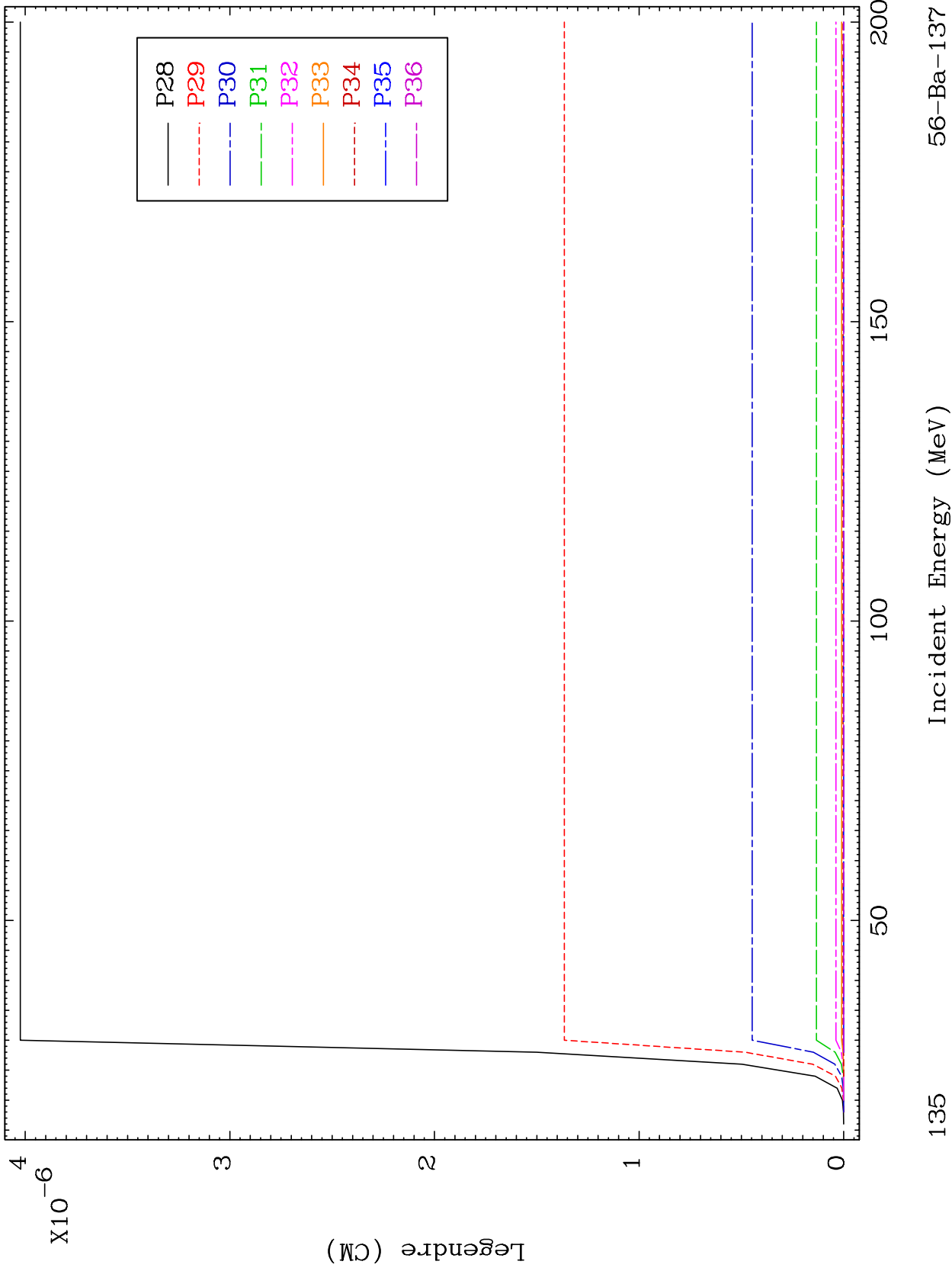
Incident Energy (MeV)

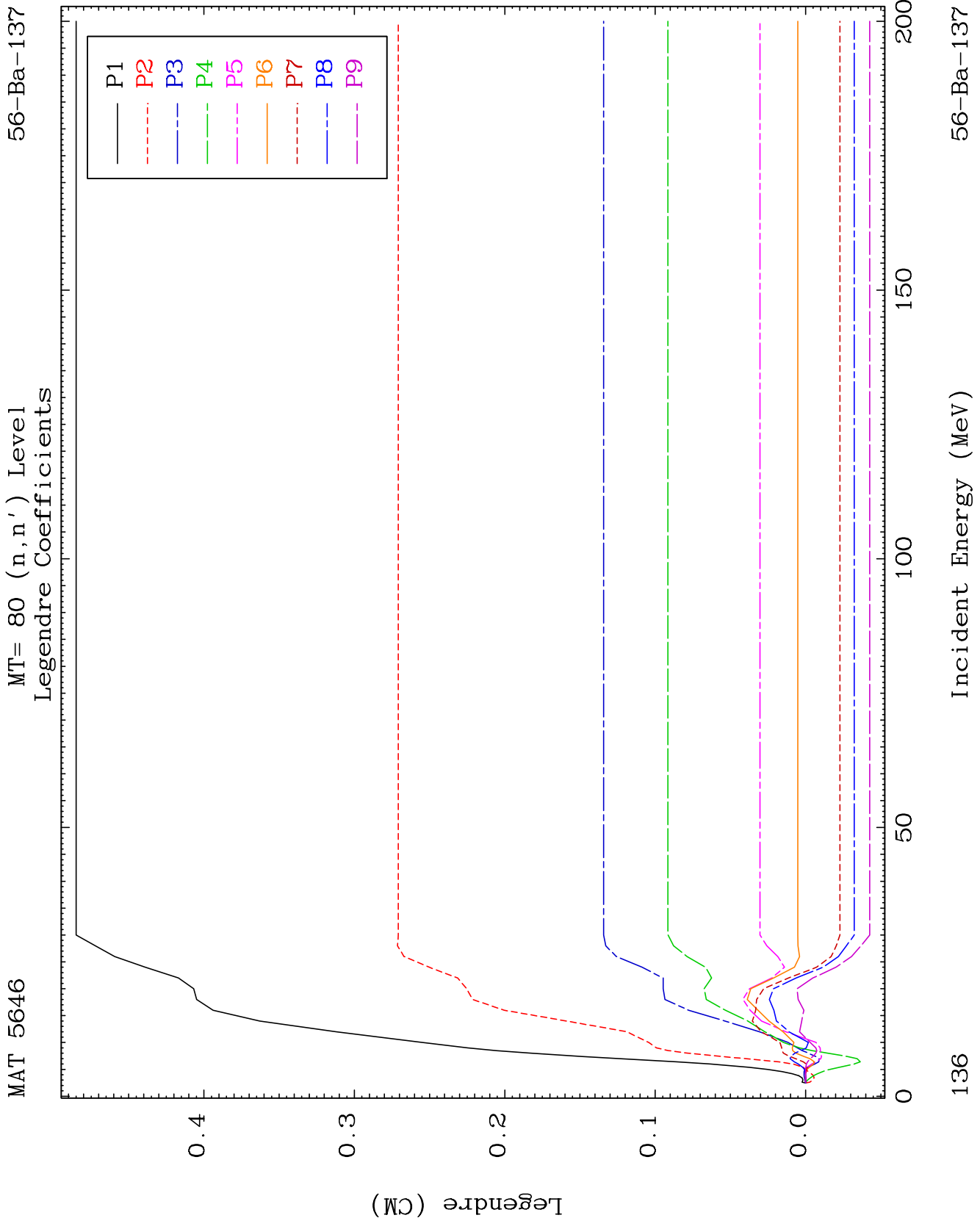
56-Ba-137

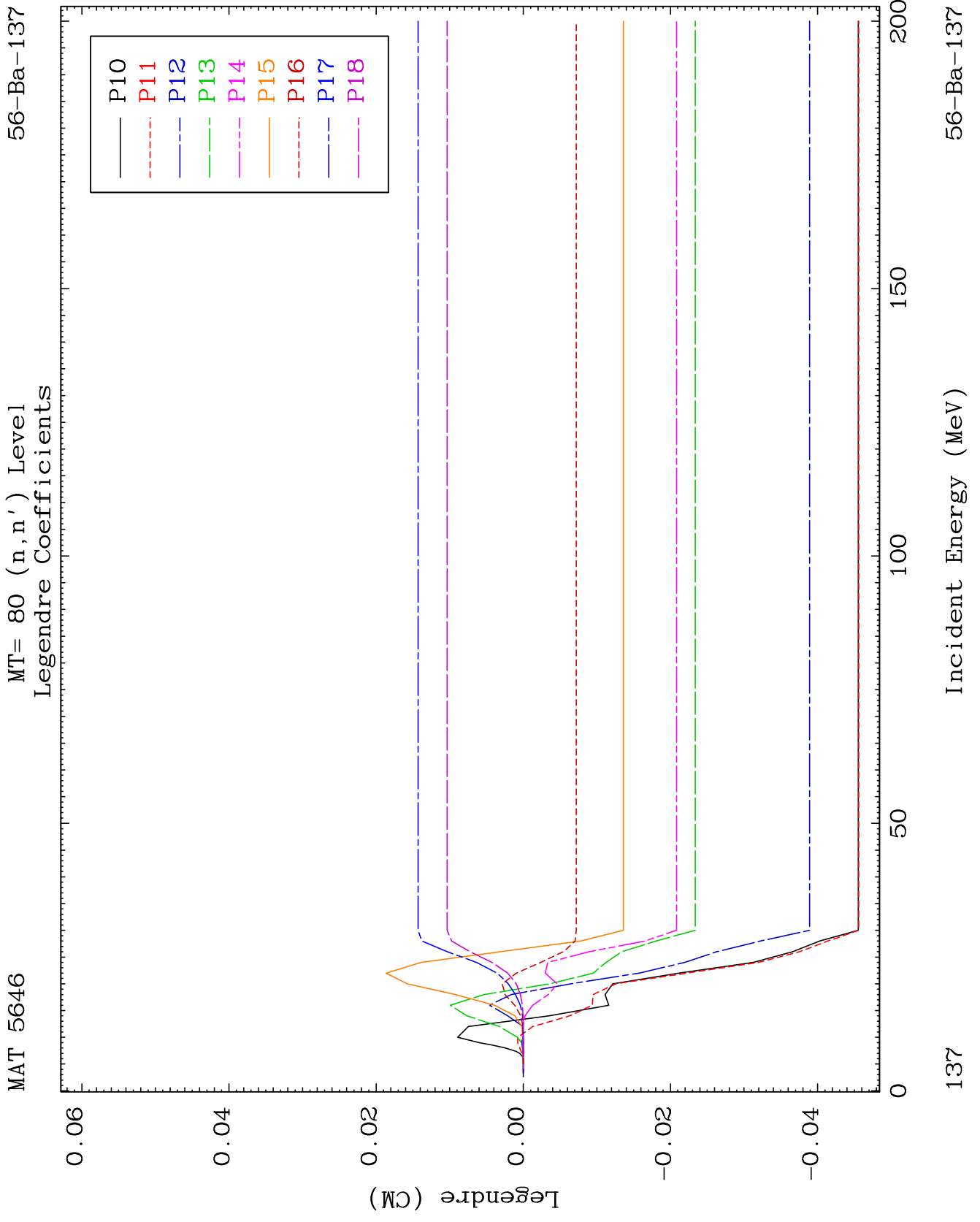
MAT 5646

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

56-Ba-137



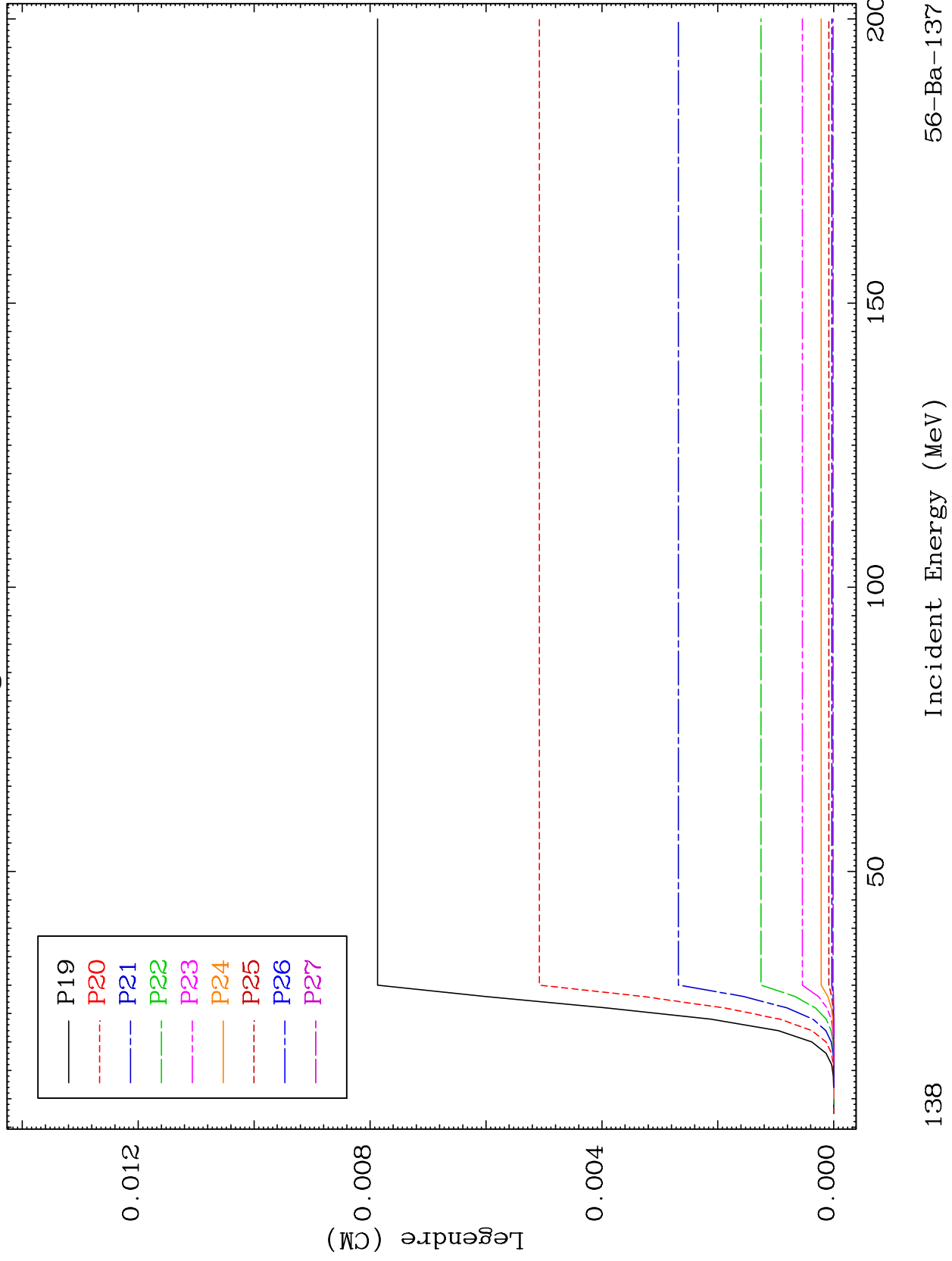




MAT 5646

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

56-Ba-137



138

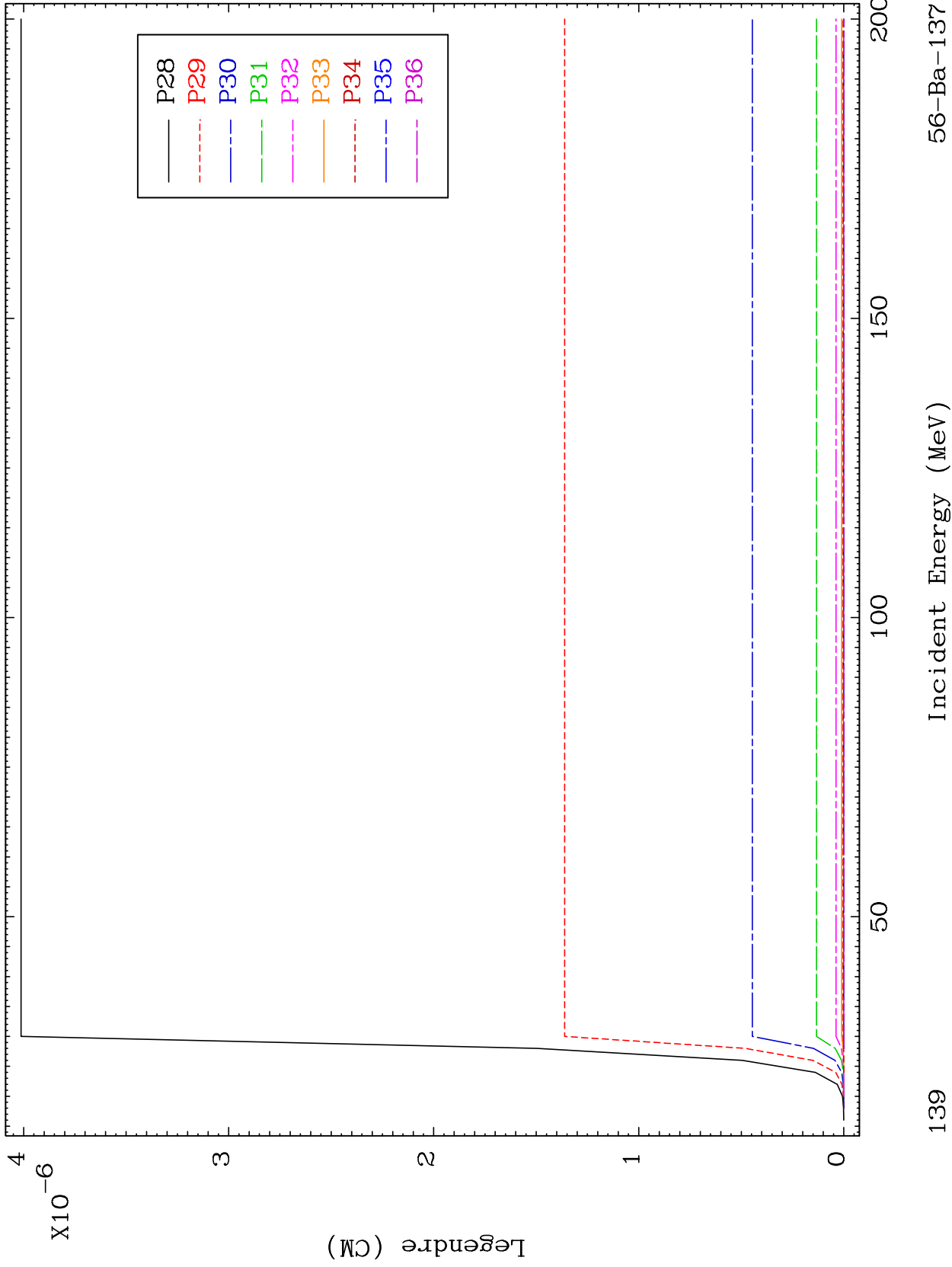
Incident Energy (MeV)

56-Ba-137

MAT 5646

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

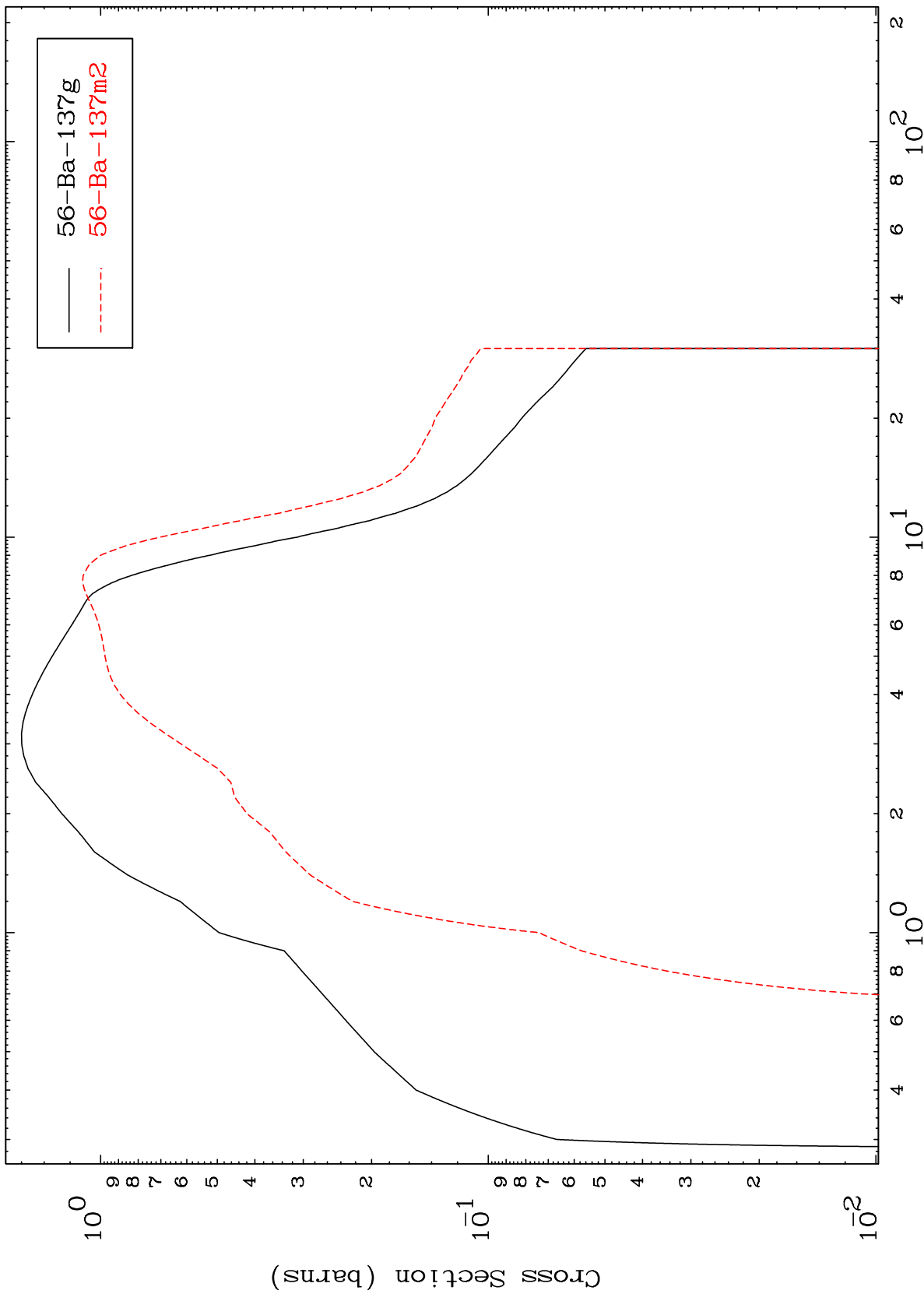
56-Ba-137



MAT 5646

56-Ba-137

Inelastic
Radionuclide Production Cross Section



140

Incident Energy (MeV)

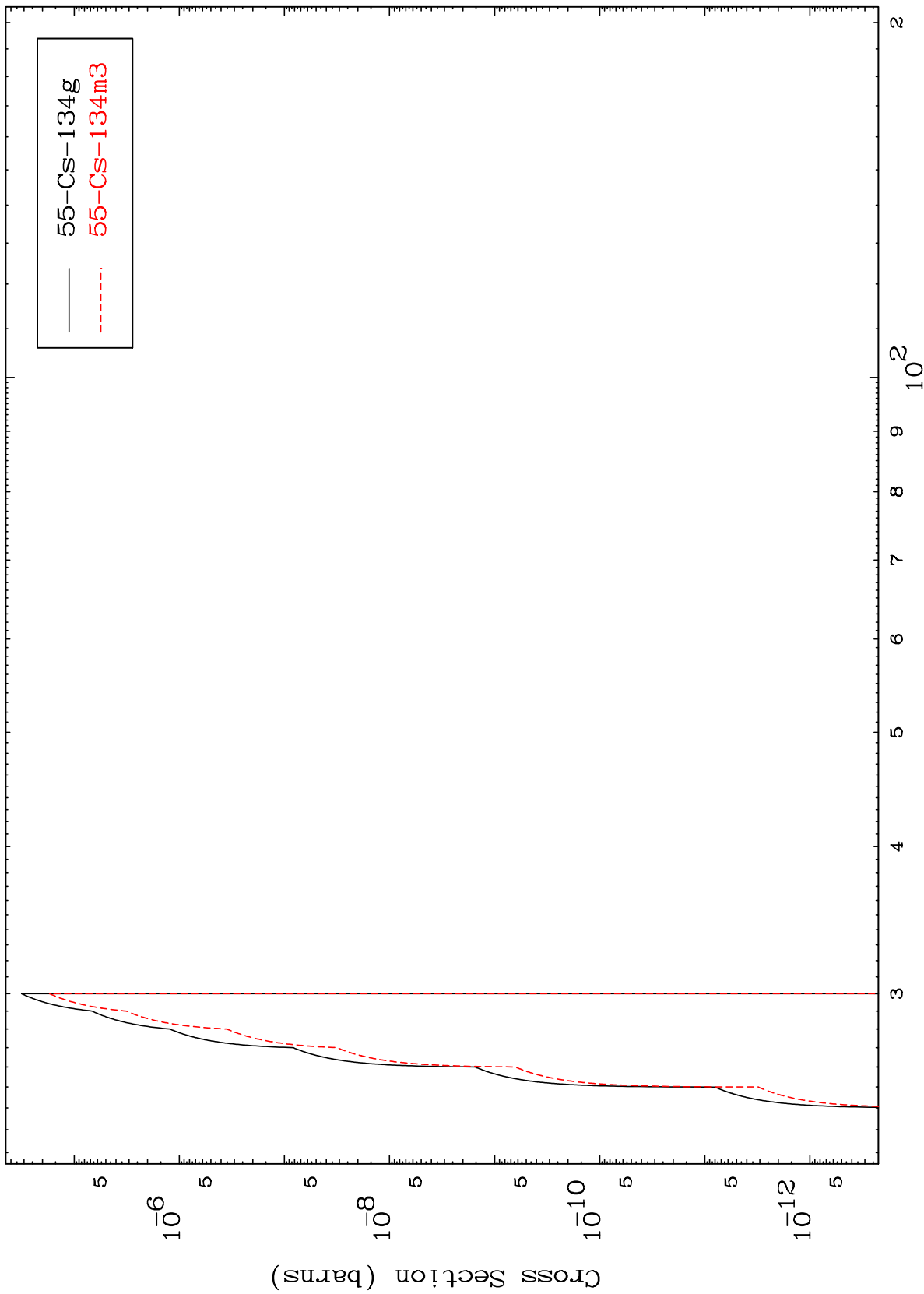
56-Ba-137

MAT 5646

(n,2n) d

56-Ba-137

Radionuclide Production Cross Section



141

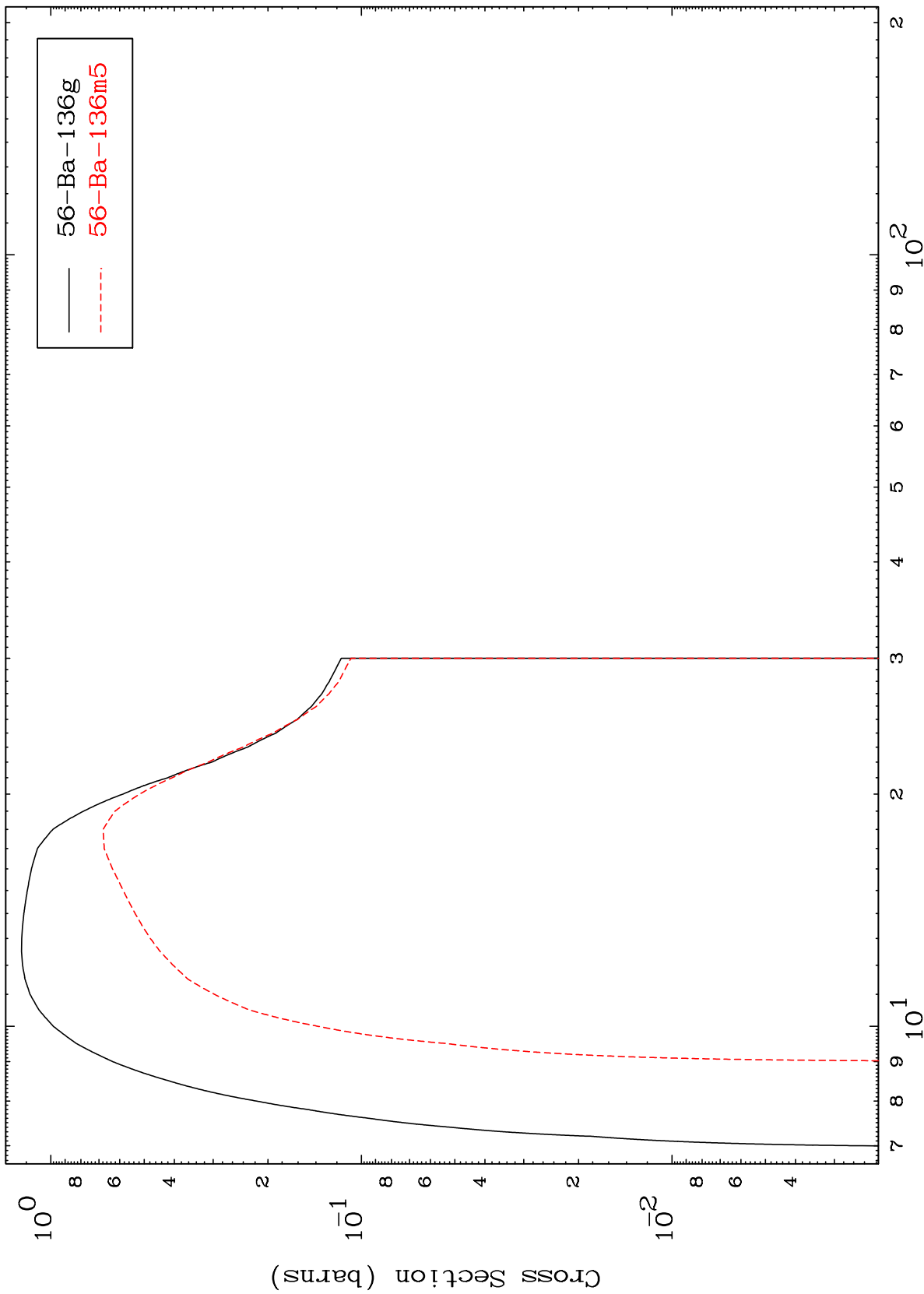
Incident Energy (MeV)

56-Ba-137

MAT 5646

56-Ba-137

(n,2n)
Radionuclide Production Cross Section



56-Ba-137

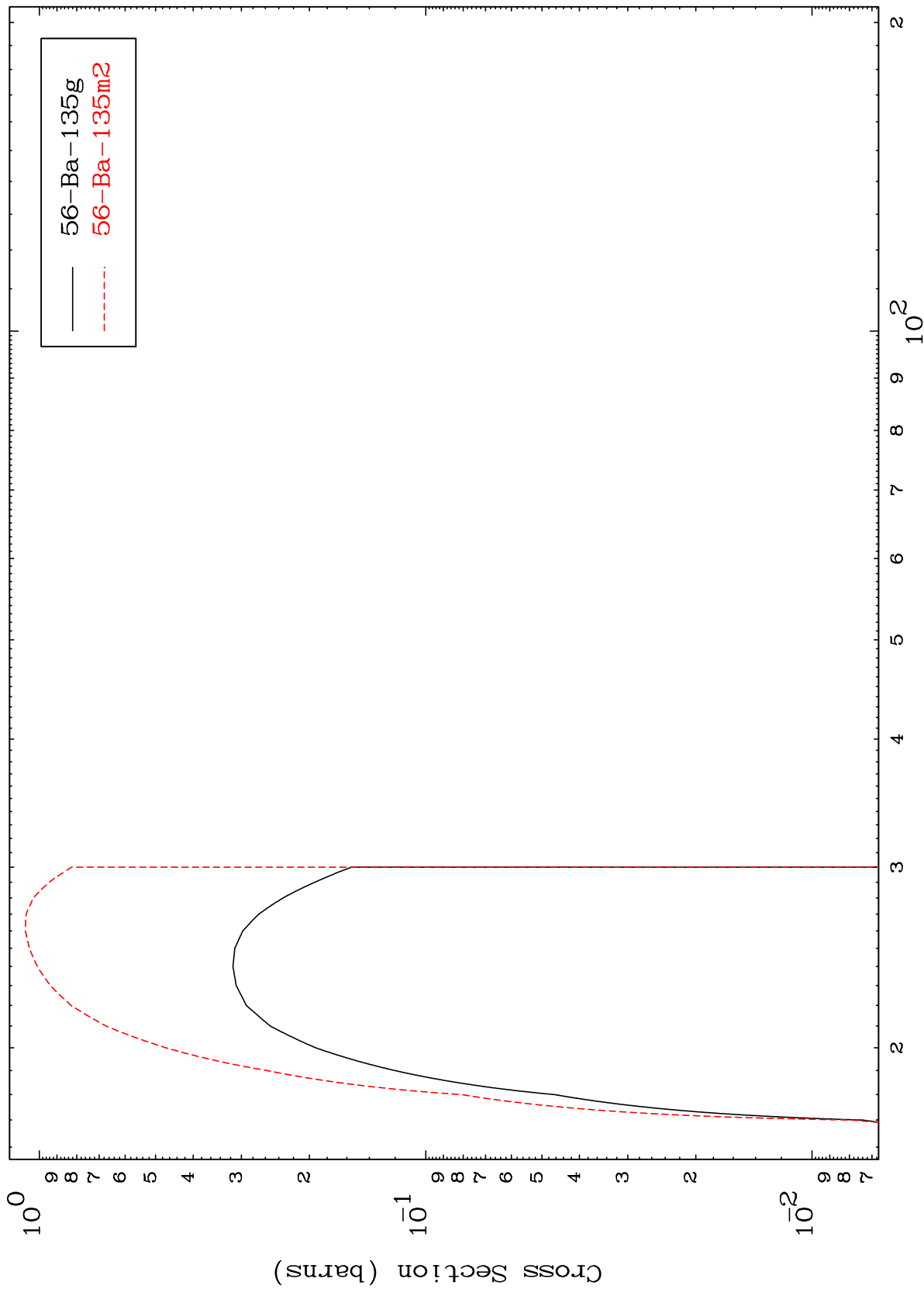
Incident Energy (MeV)

142

MAT 5646

56-Ba-137

(n,3n)
Radionuclide Production Cross Section



143

Incident Energy (MeV)

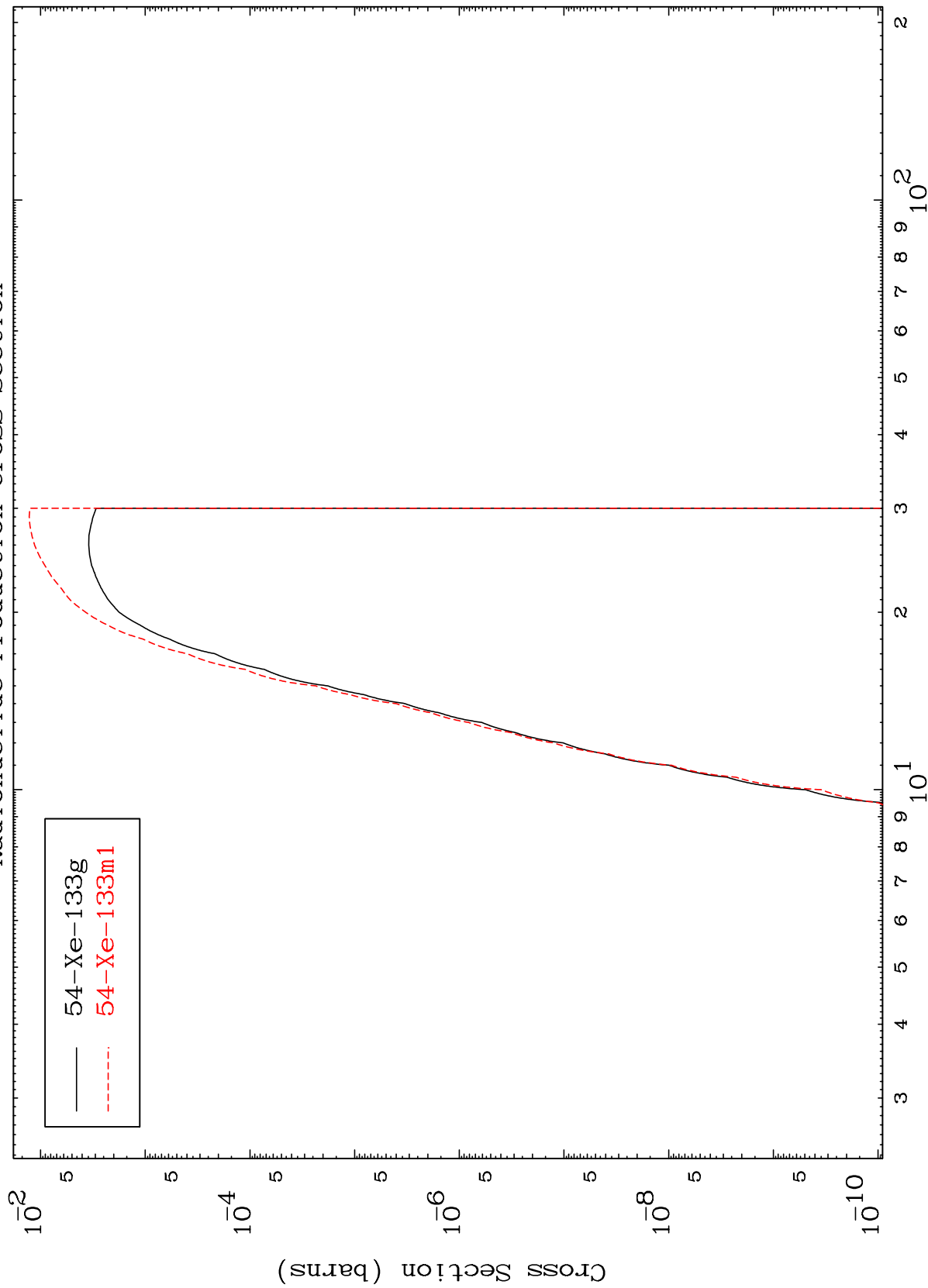
56-Ba-137

MAT 5646

56-Ba-137

(n,n') α

Radionuclide Production Cross Section



54-Xe-133g
54-Xe-133m1

56-Ba-137

Incident Energy (MeV)

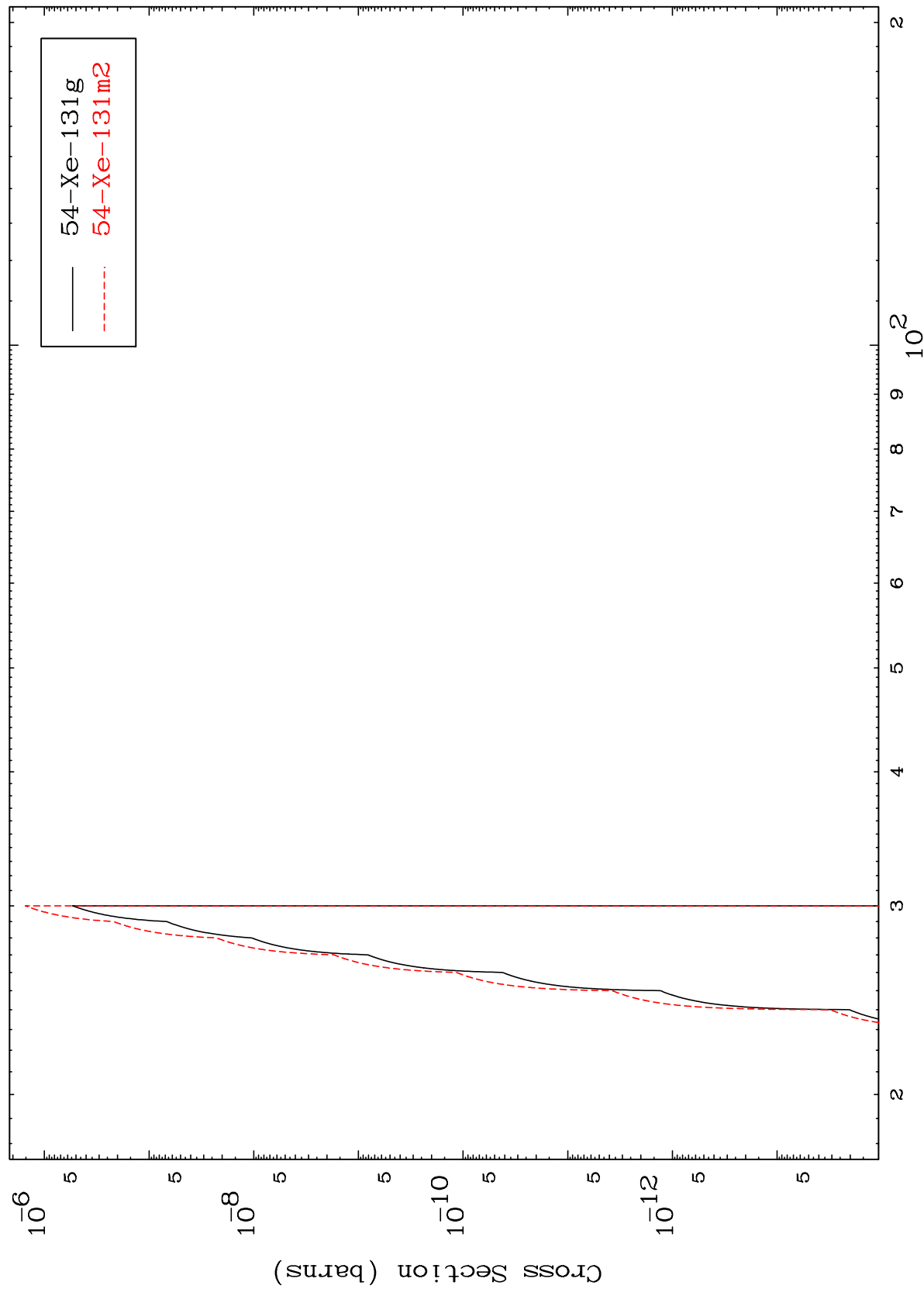
144

MAT 5646

(n,3n) α

56-Ba-137

Radionuclide Production Cross Section



145

Incident Energy (MeV)

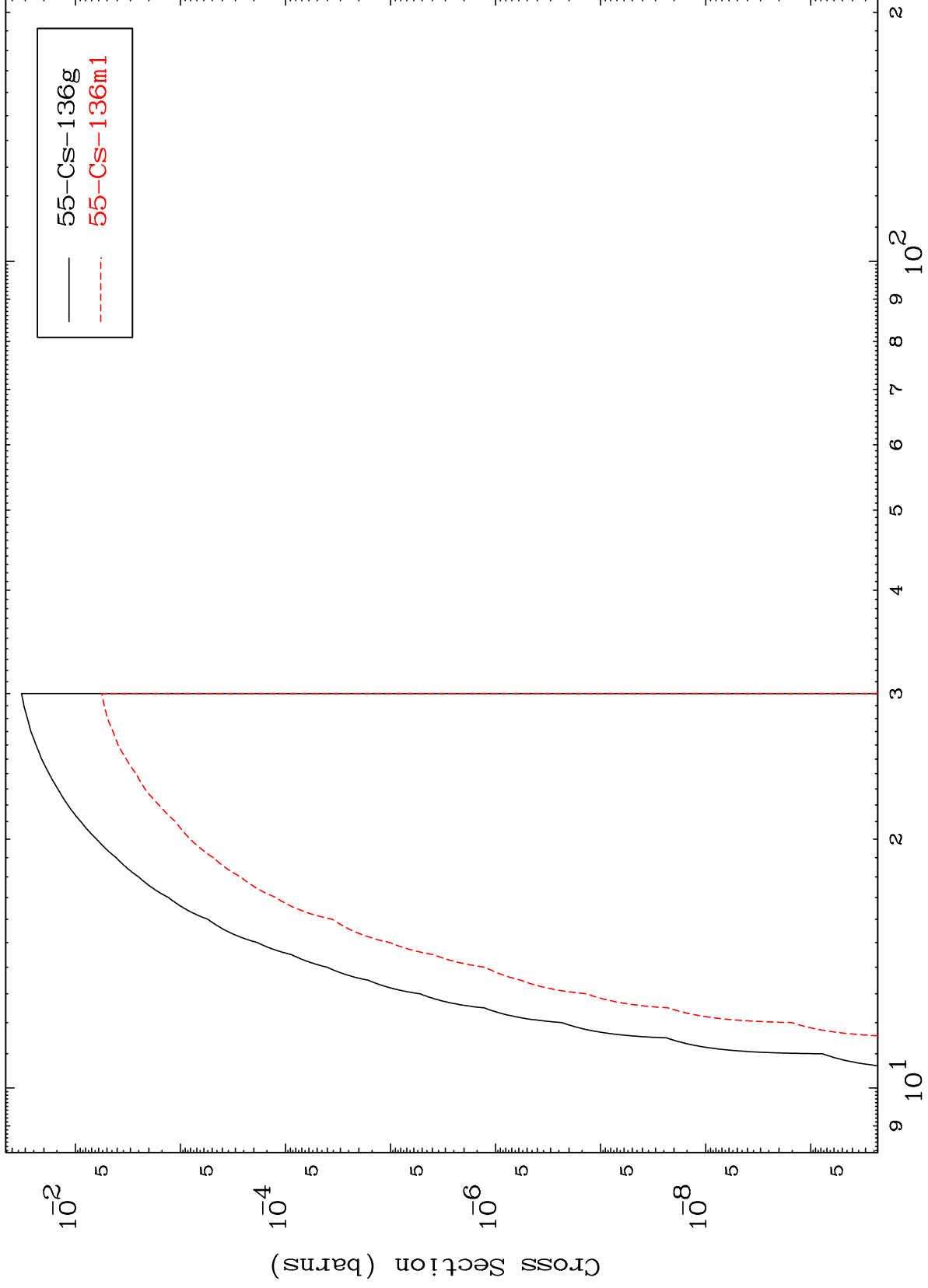
56-Ba-137

MAT 5646

(n,n') p

56-Ba-137

Radionuclide Production Cross Section



146

Incident Energy (MeV)

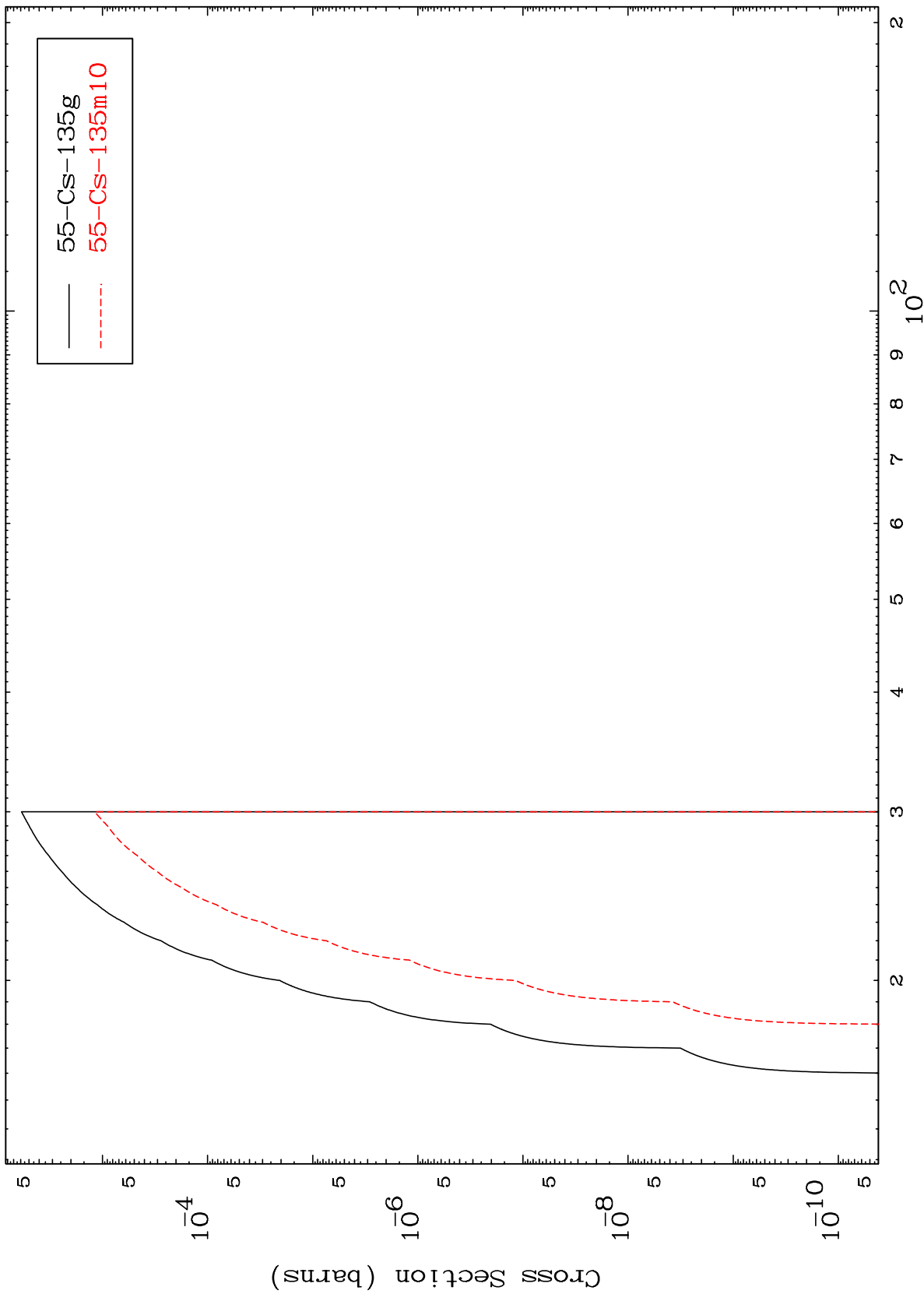
56-Ba-137

MAT 5646

(n,n') d

56-Ba-137

Radionuclide Production Cross Section

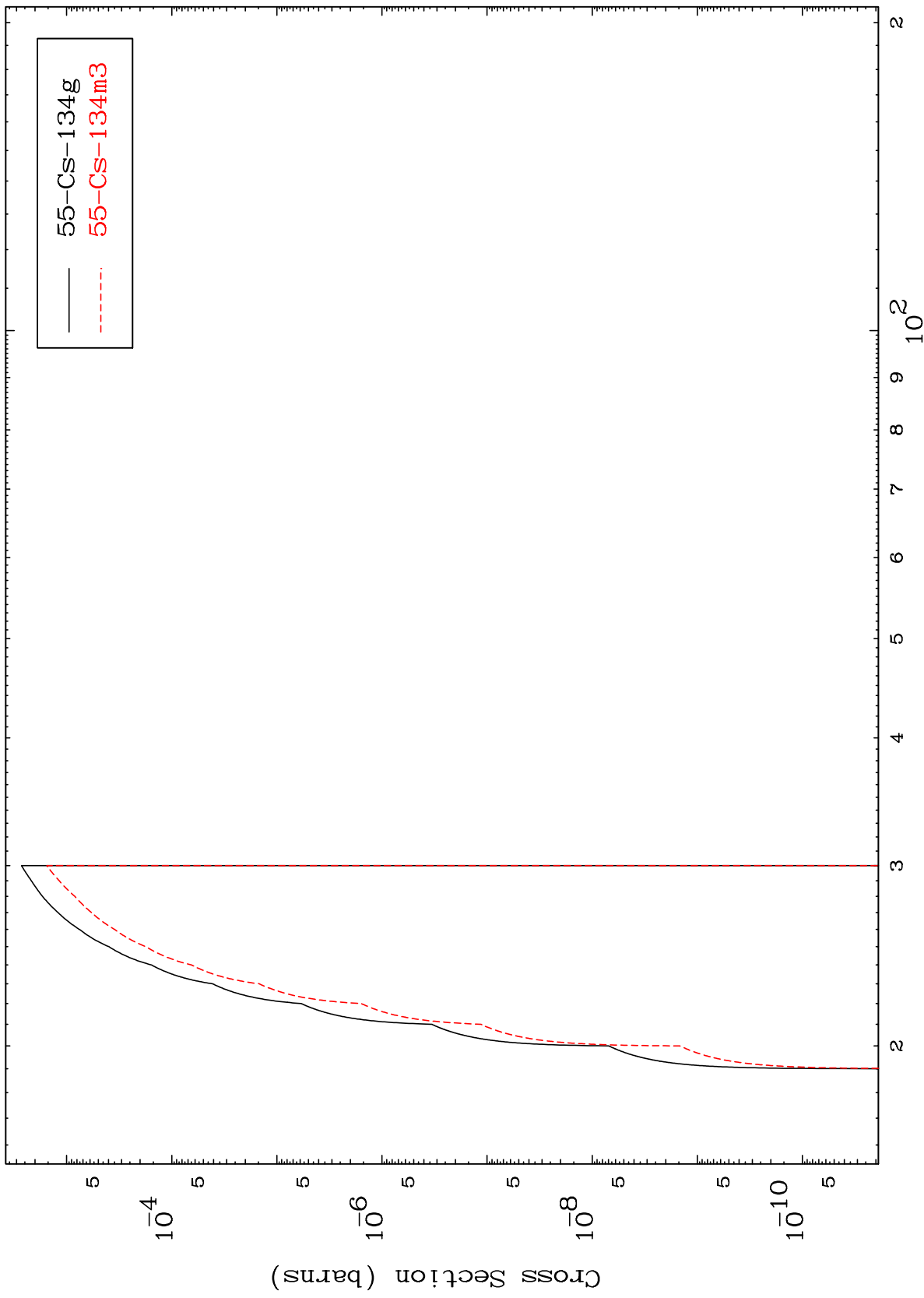


147

Incident Energy (MeV)

56-Ba-137

Radionuclide Production Cross Section

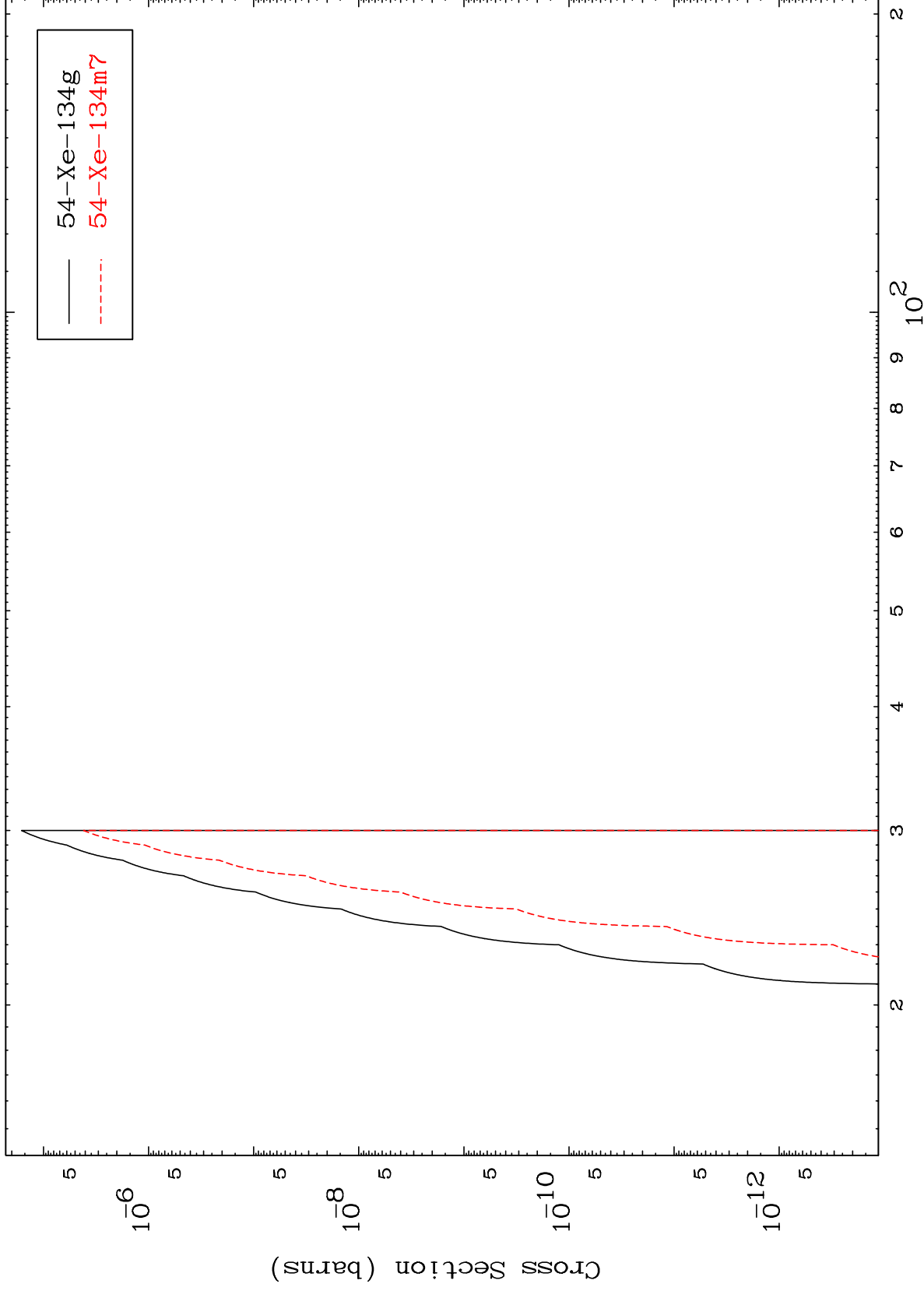


MAT 5646

(n,n') He-3

56-Ba-137

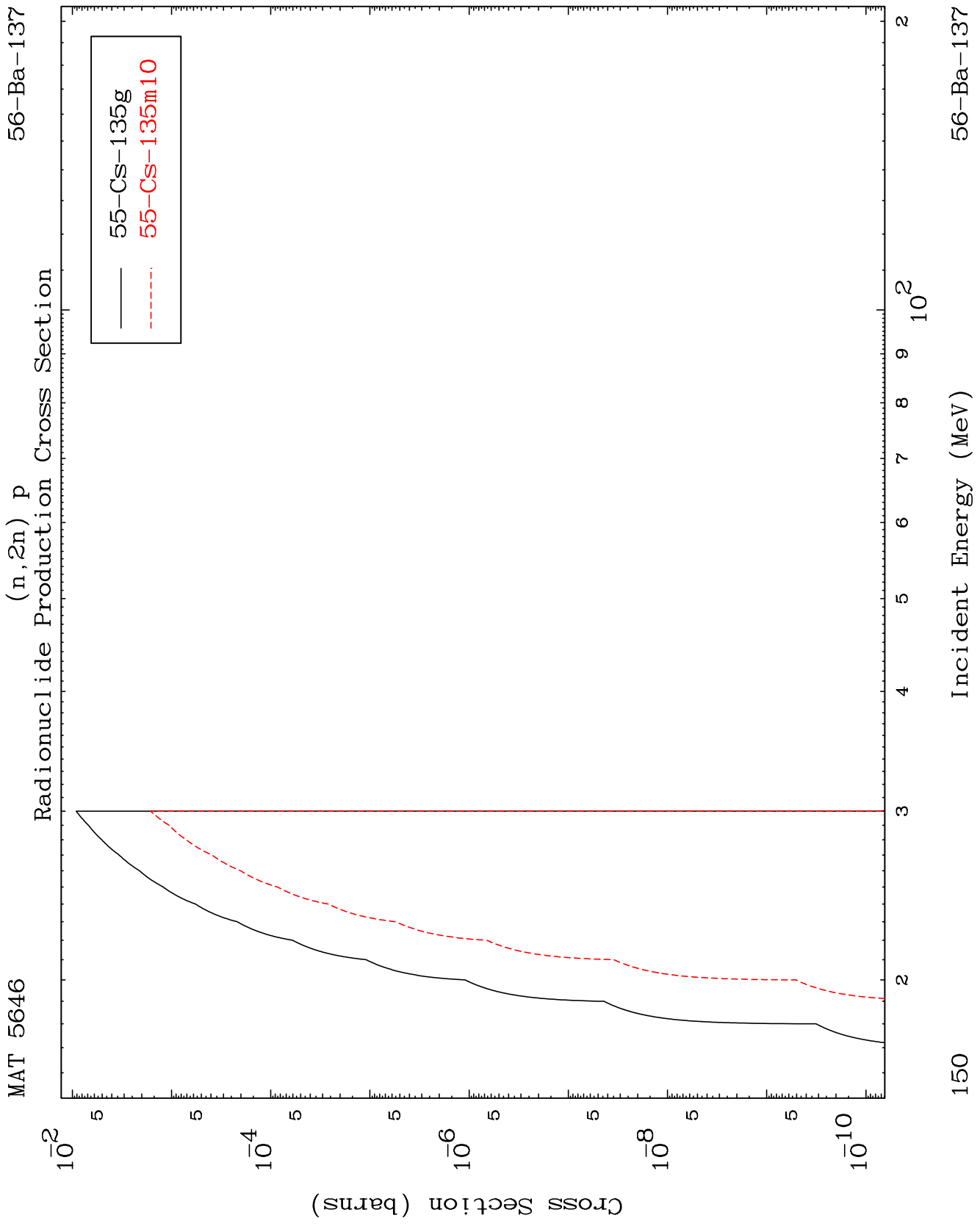
Radionuclide Production Cross Section



149

Incident Energy (MeV)

56-Ba-137

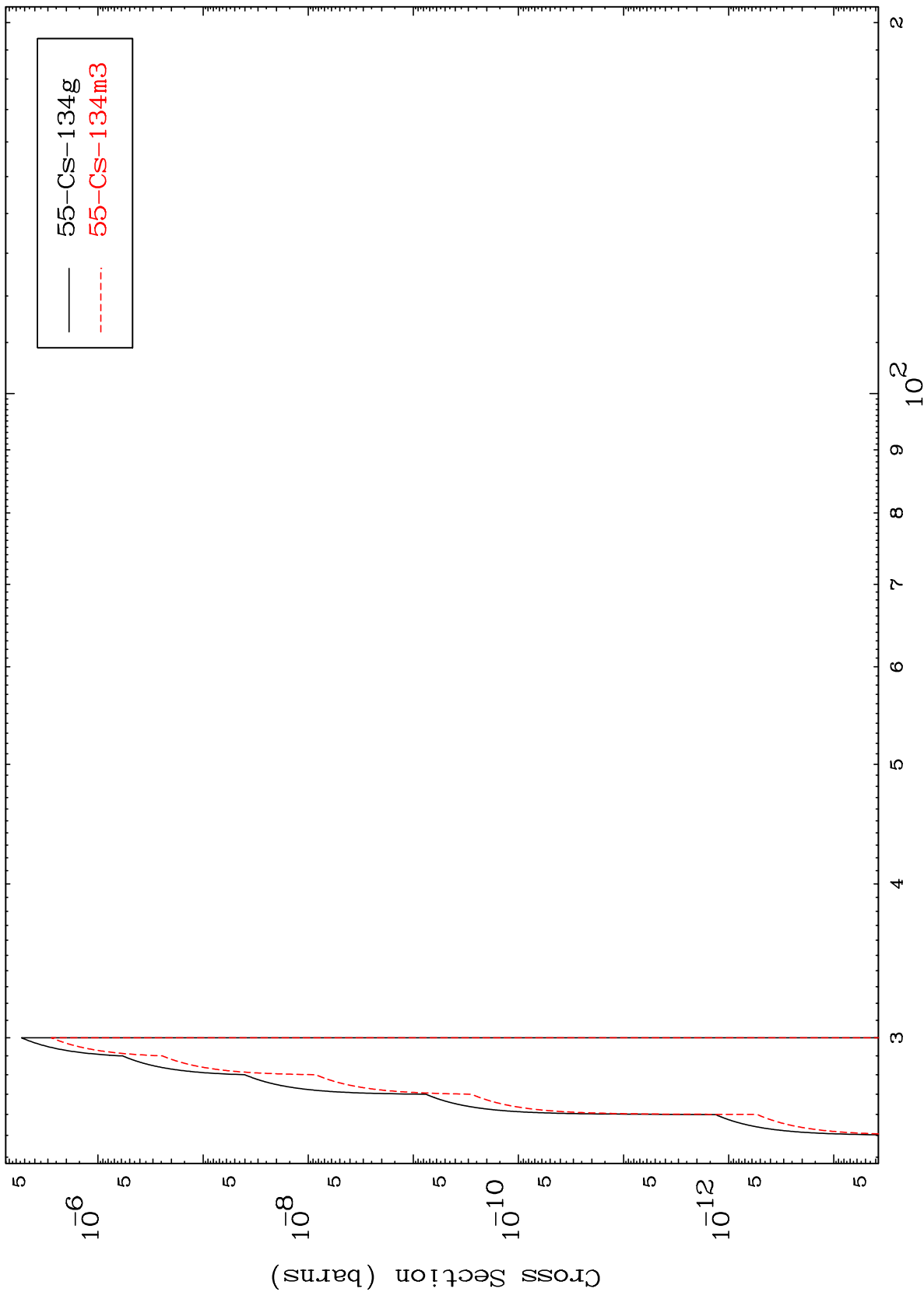


MAT 5646

(n,3n) p

56-Ba-137

Radionuclide Production Cross Section

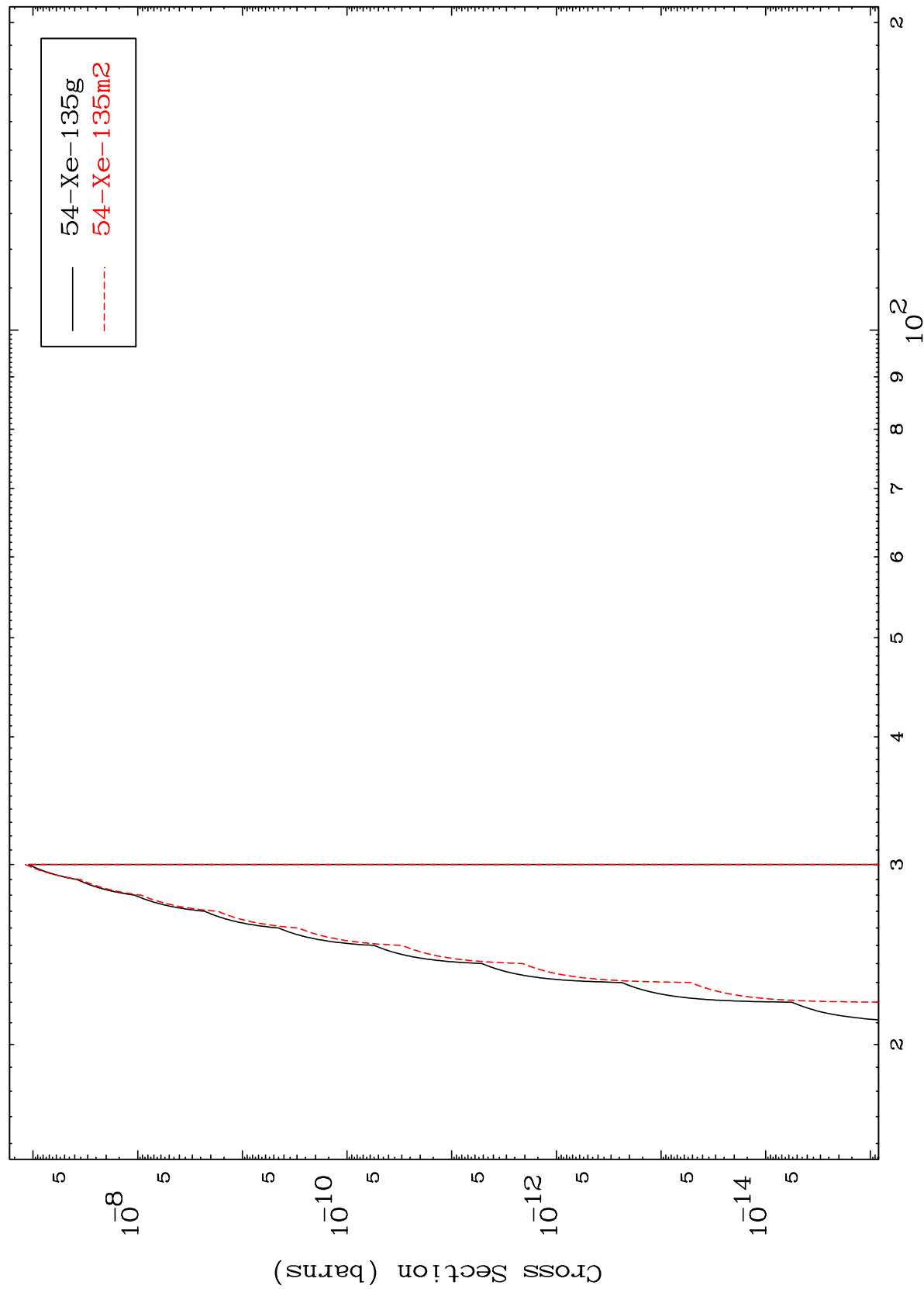


151

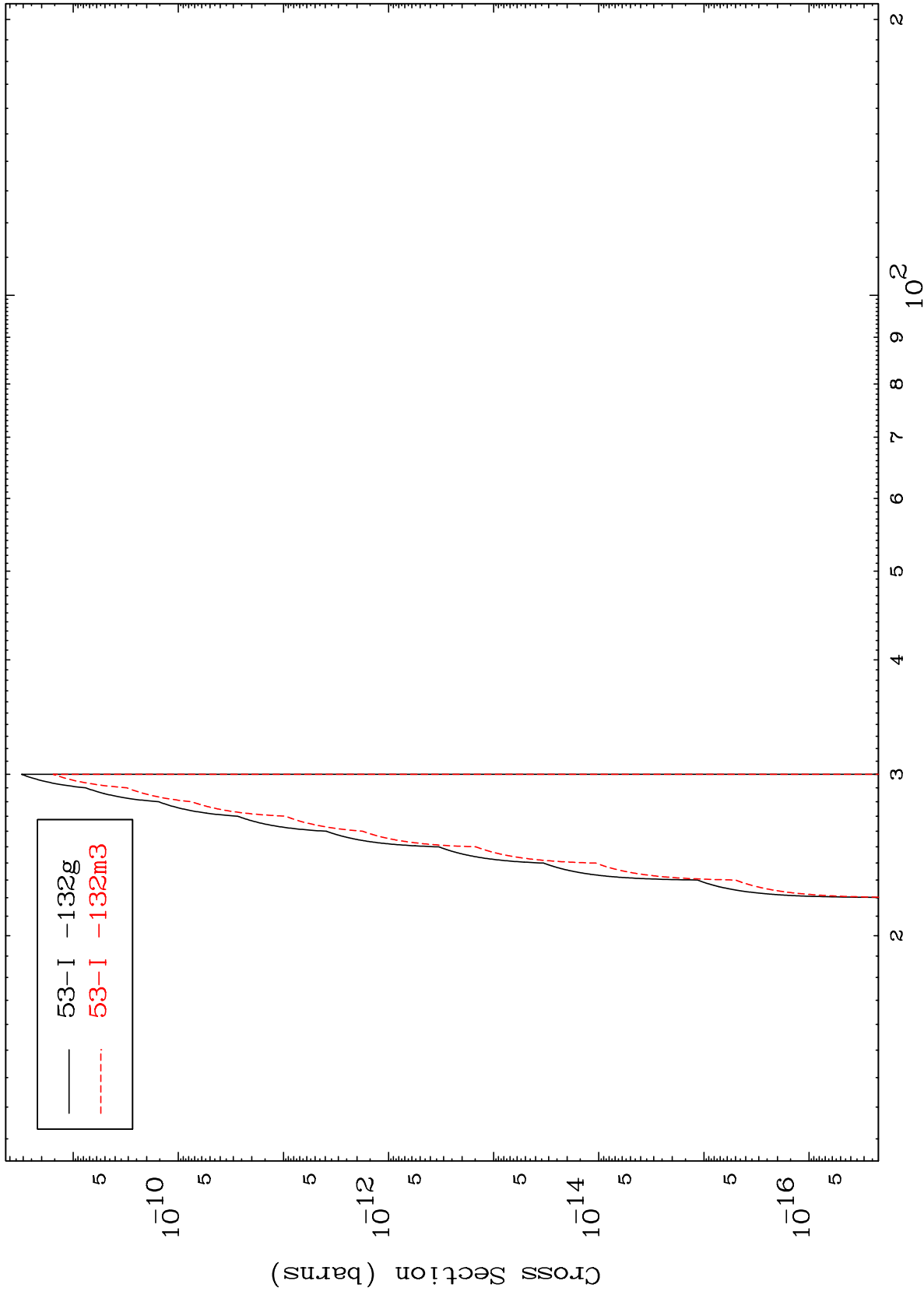
Incident Energy (MeV)

56-Ba-137

Radionuclide Production Cross Section



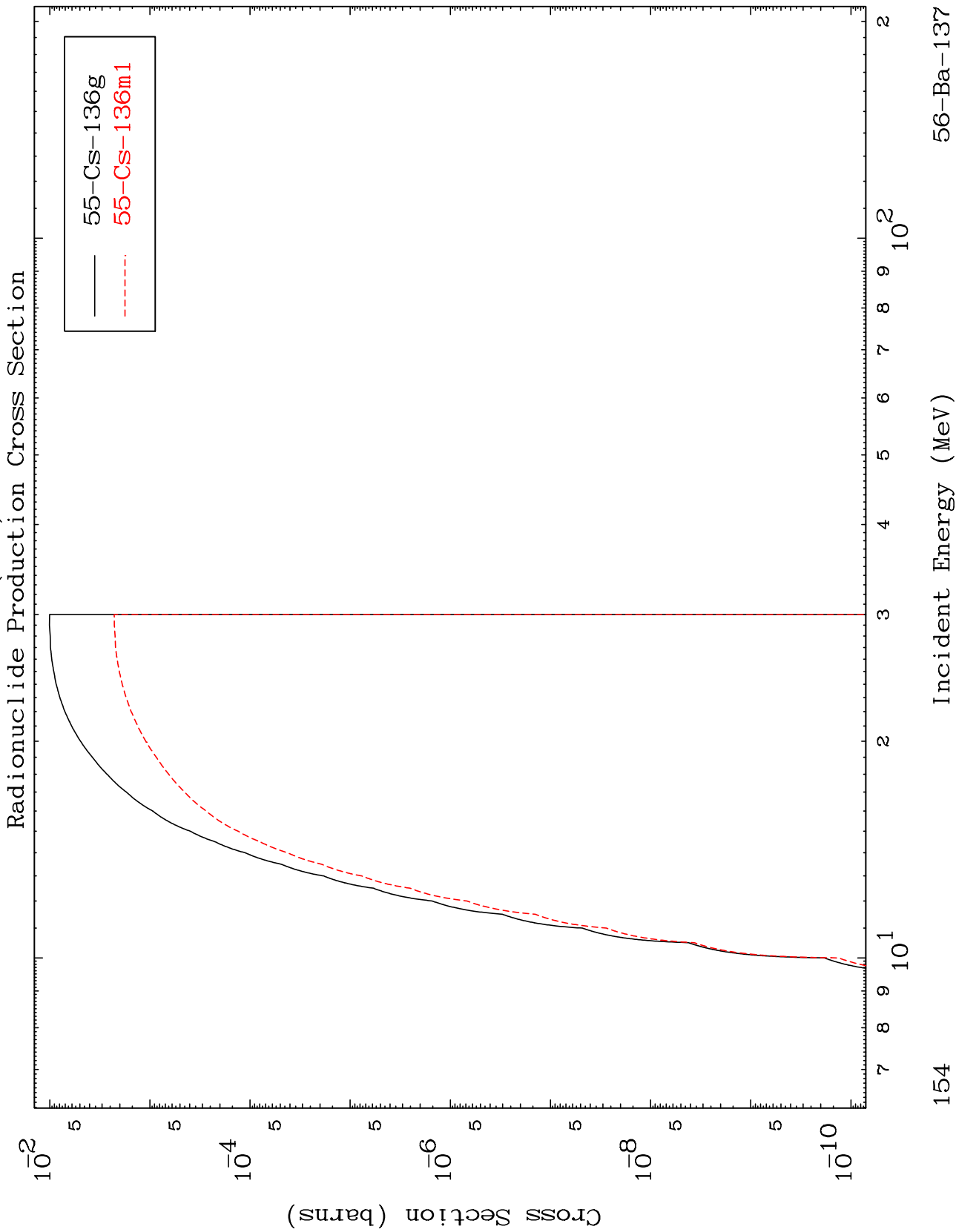
Radionuclide Production Cross Section



MAT 5646

(n,d)

56-Ba-137



154

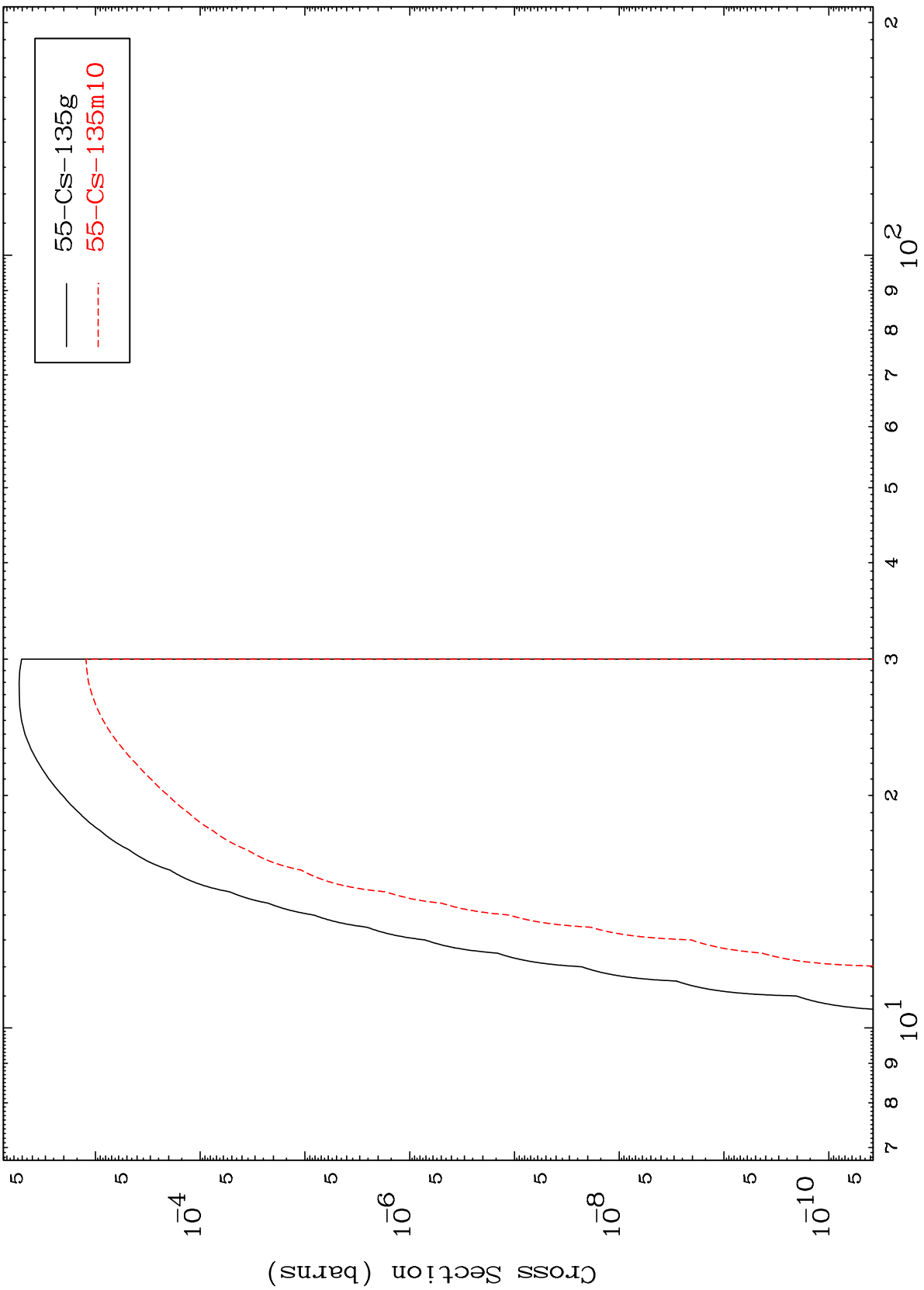
Incident Energy (MeV)

56-Ba-137

MAT 5646

56-Ba-137

(n, t)
Radionuclide Production Cross Section



155

Incident Energy (MeV)

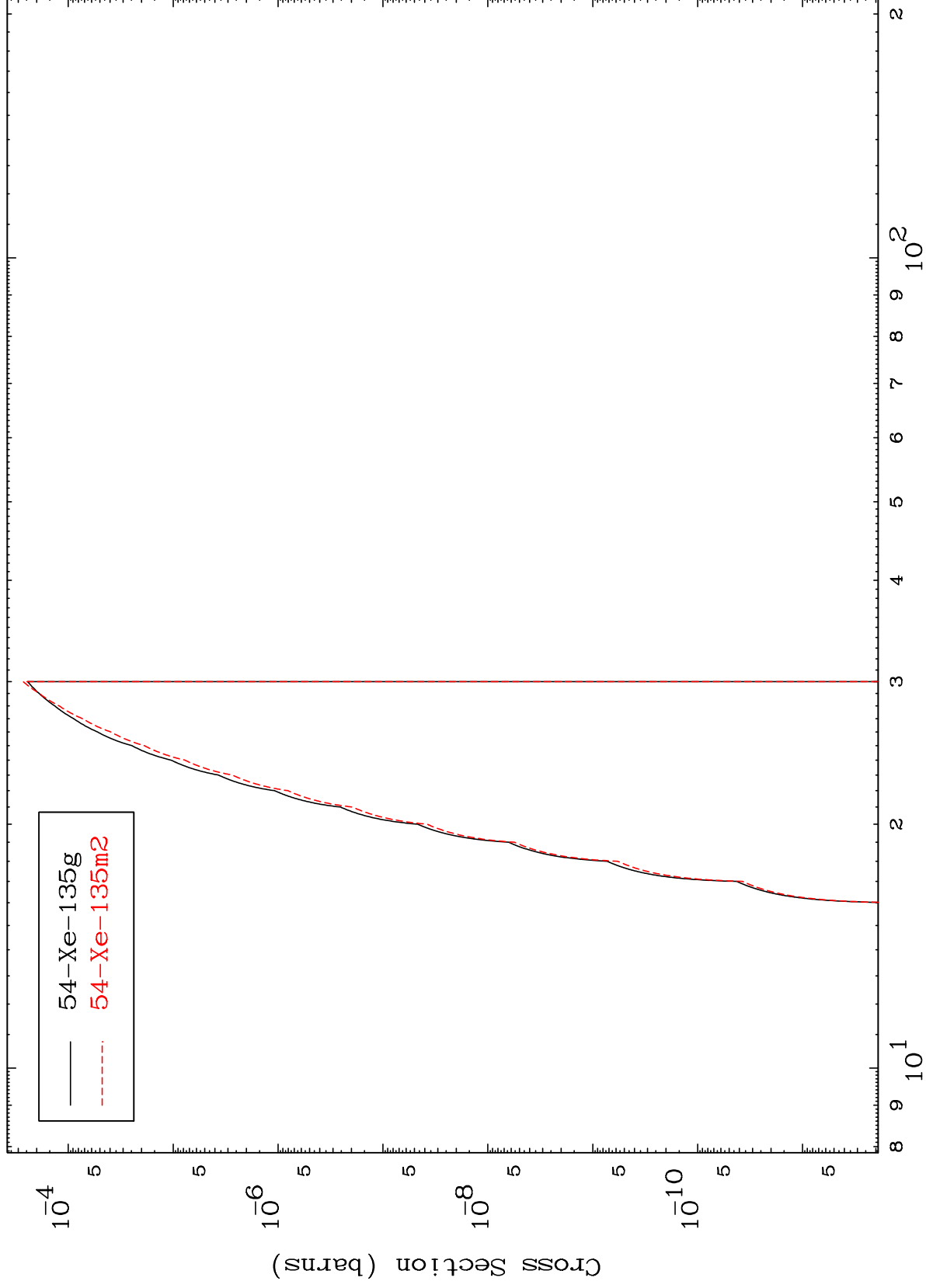
56-Ba-137

MAT 5646

(n,He-3)

56-Ba-137

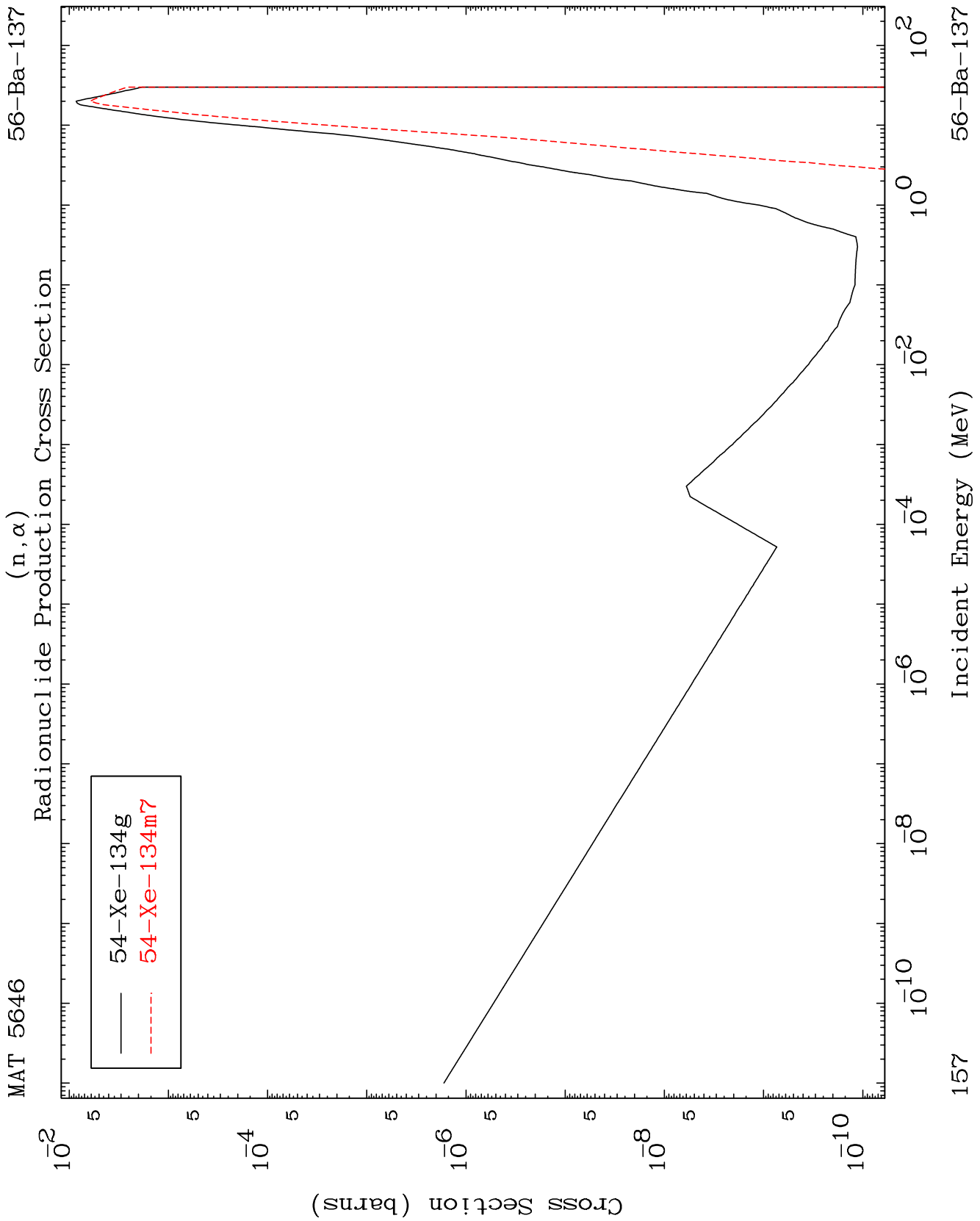
Radionuclide Production Cross Section



156

Incident Energy (MeV)

56-Ba-137

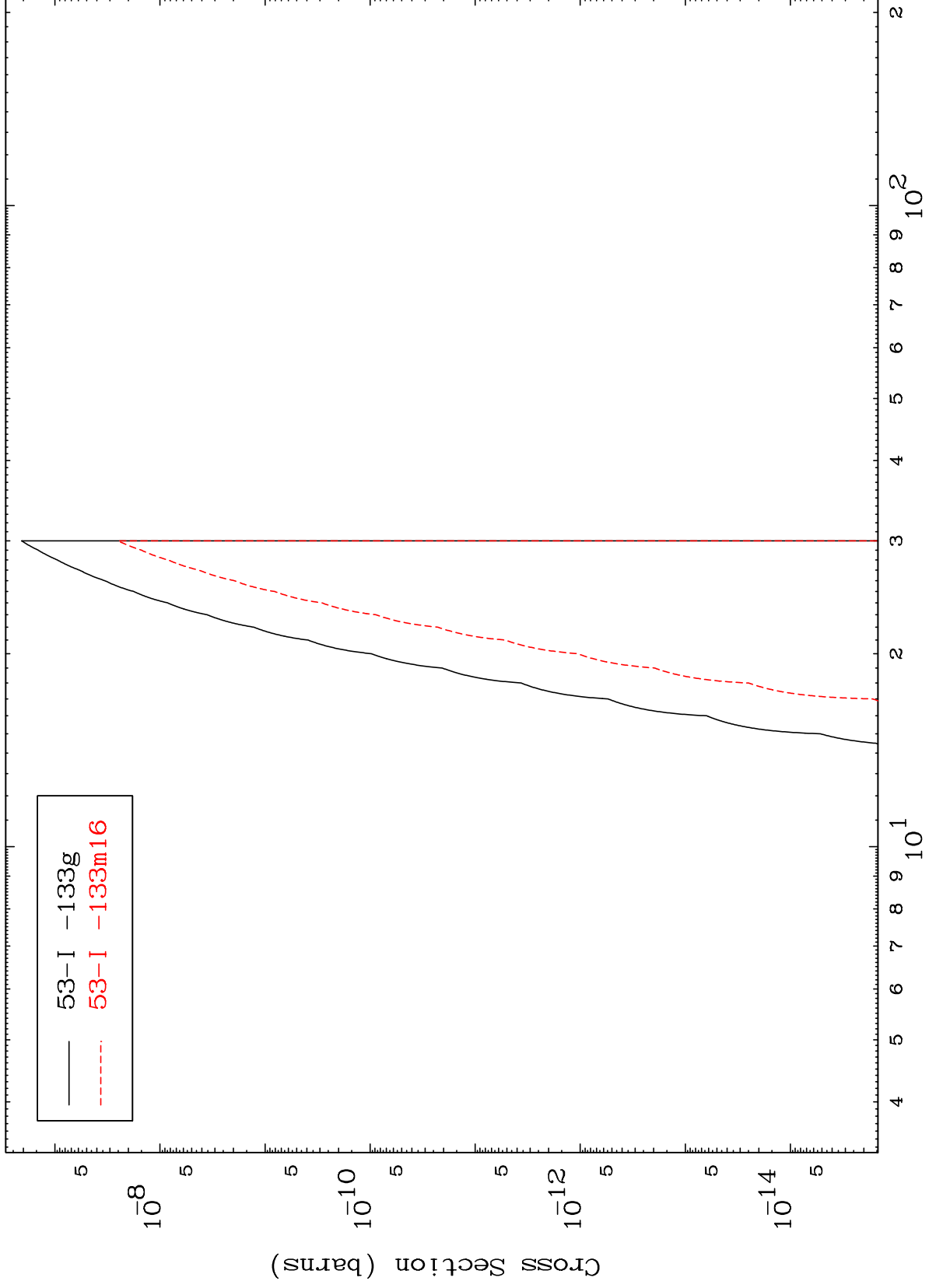


MAT 5646

(n,p) α

56-Ba-137

Radionuclide Production Cross Section



53-I -133g
53-I -133m16

158

Incident Energy (MeV)

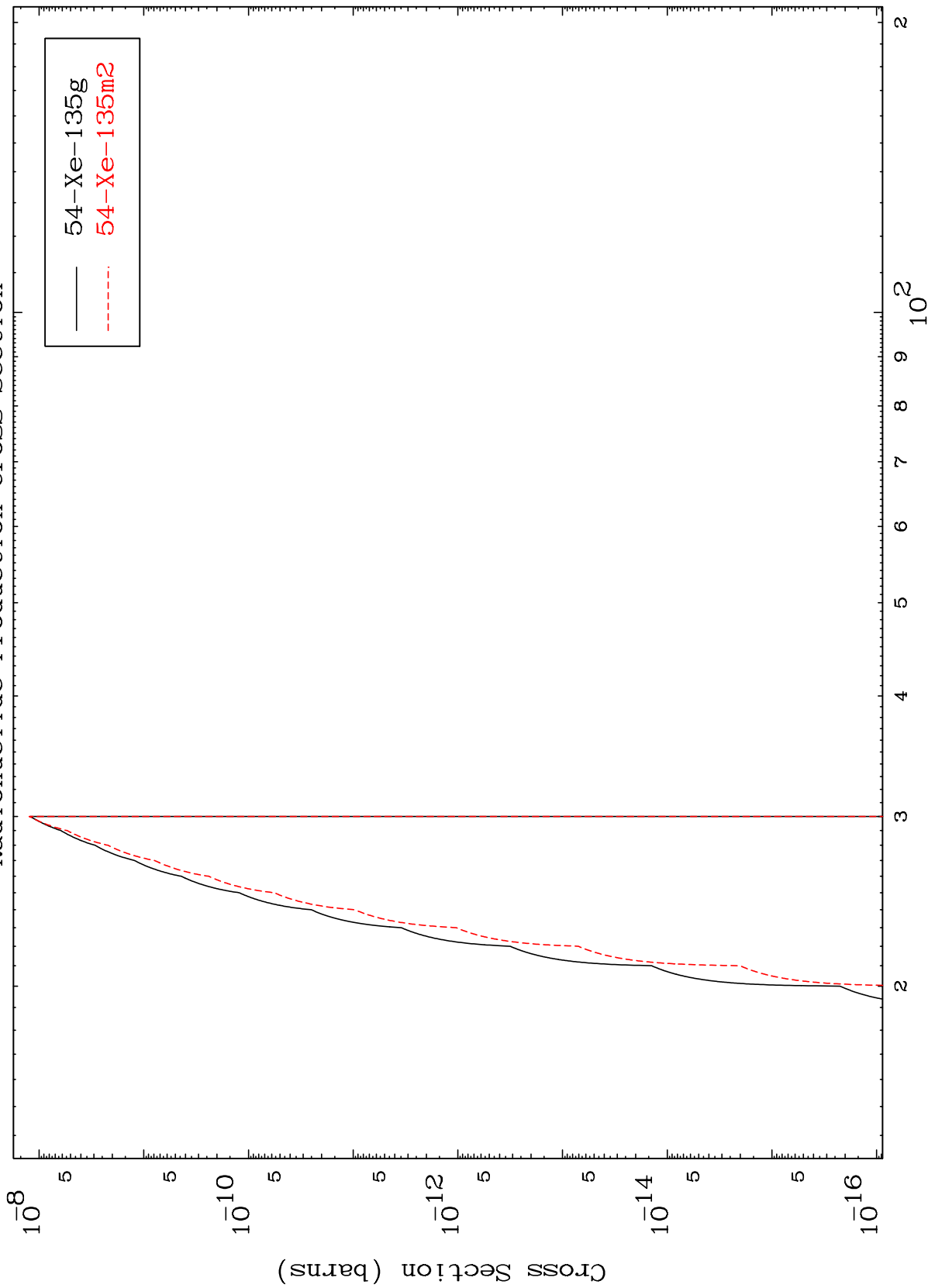
56-Ba-137

MAT 5646

(n,p) d

56-Ba-137

Radionuclide Production Cross Section



159

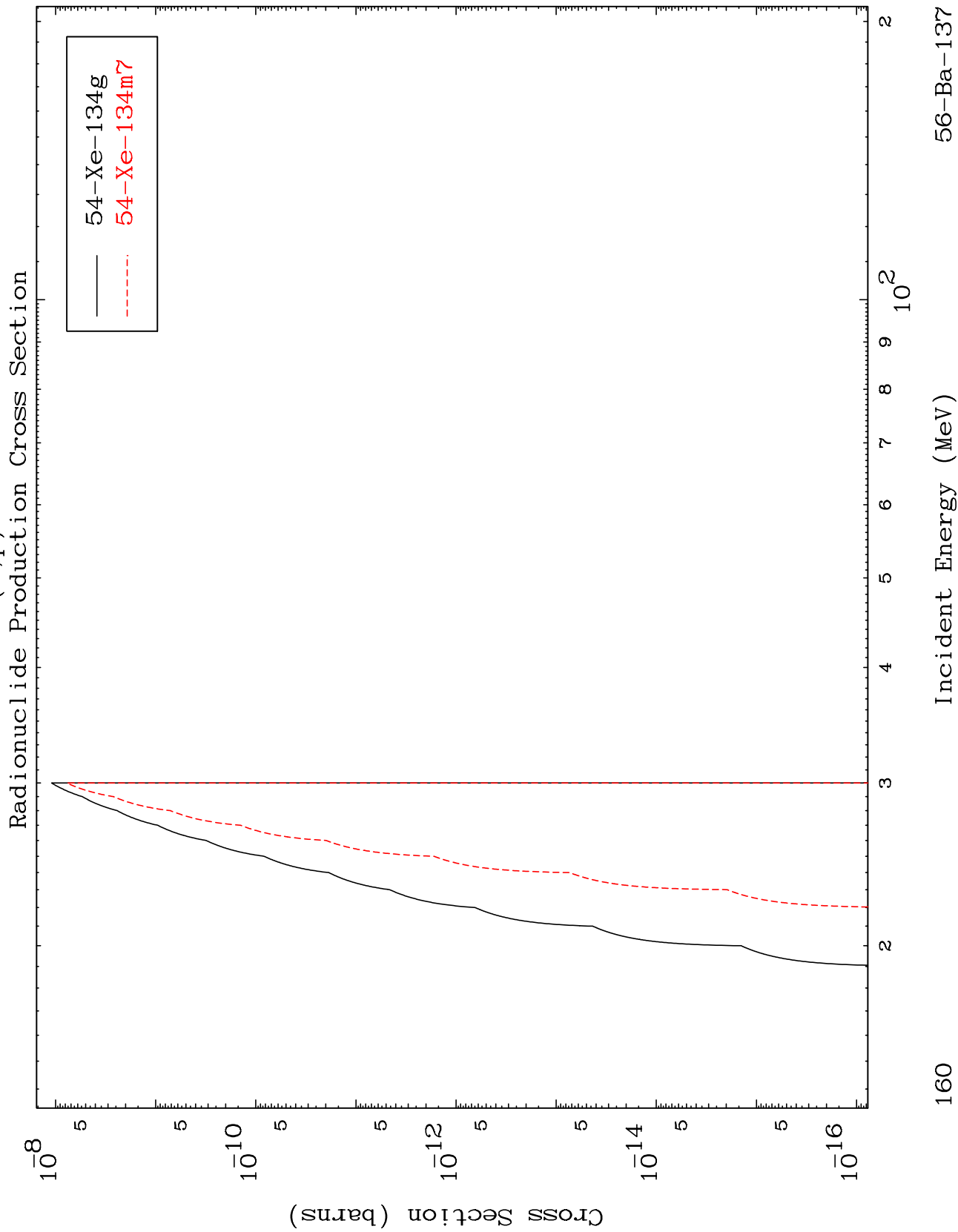
Incident Energy (MeV)

56-Ba-137

MAT 5646

(n,p) t

56-Ba-137



160

56-Ba-137