

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](mailto:redcullen1@comcast.net)

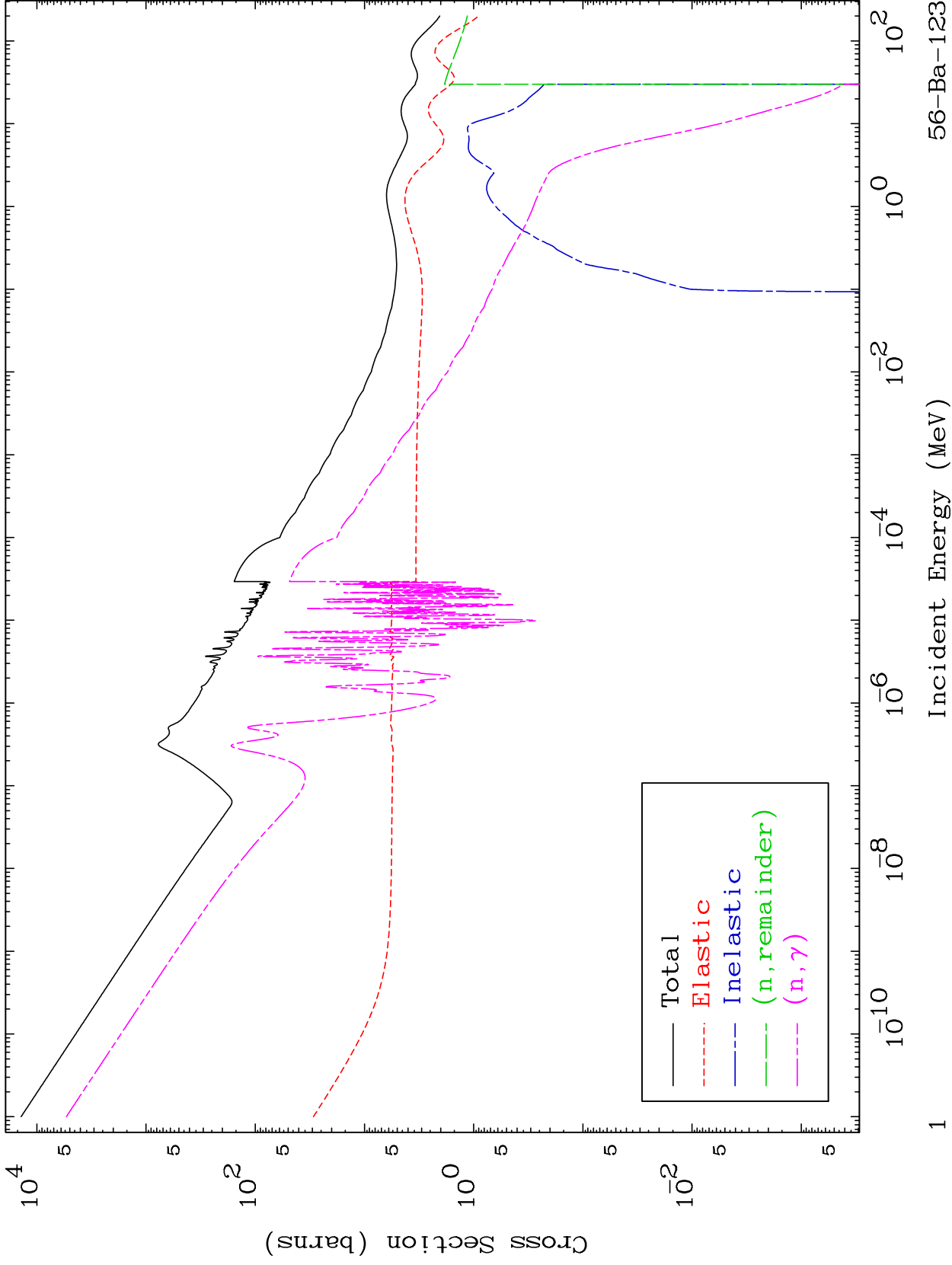
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 5604

Major  
293 Kelvin Cross Sections

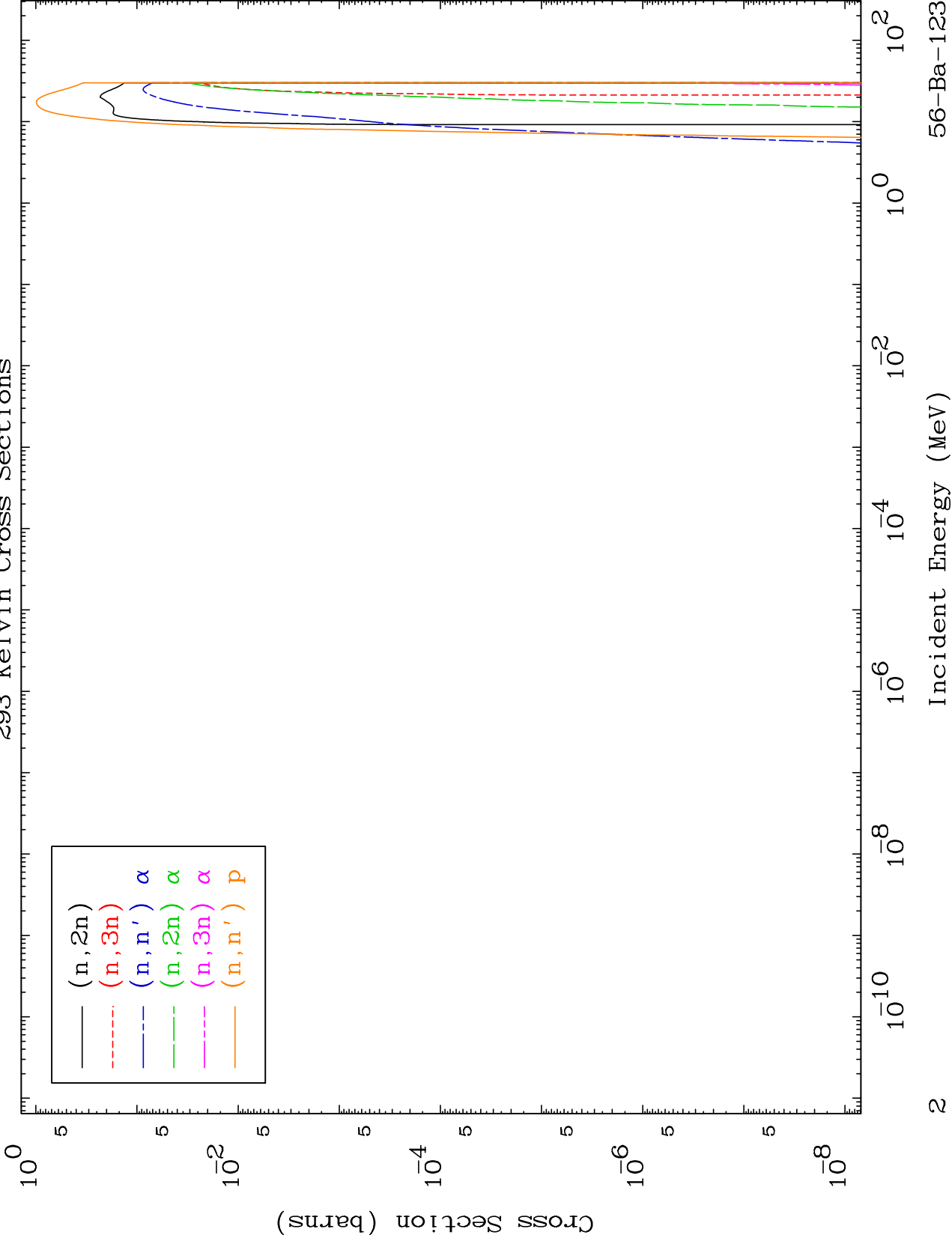
56-Ba-123



MAT 5604

Neutron Production  
293 Kelvin Cross Sections

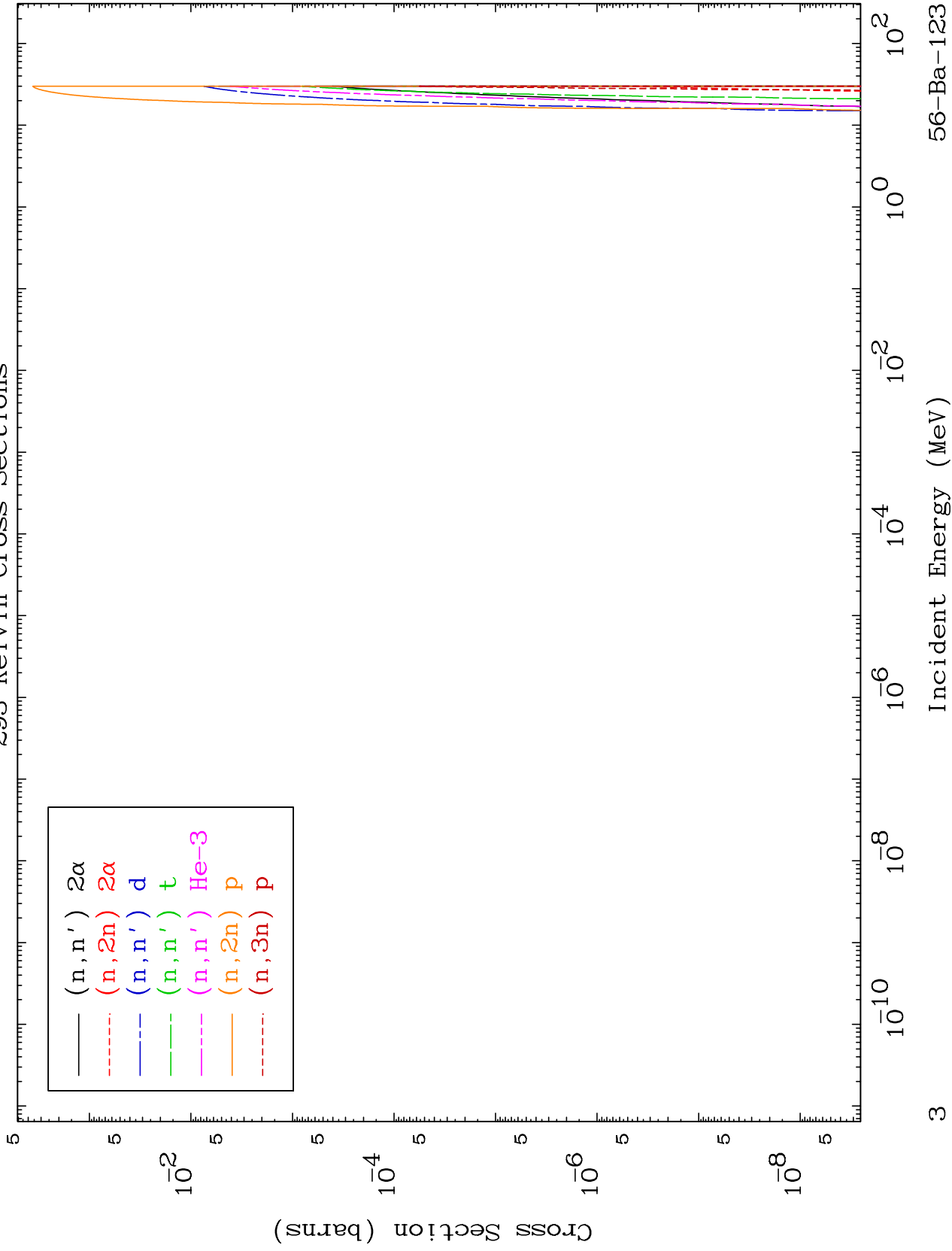
56-Ba-123



MAT 5604

Neutron Production  
293 Kelvin Cross Sections

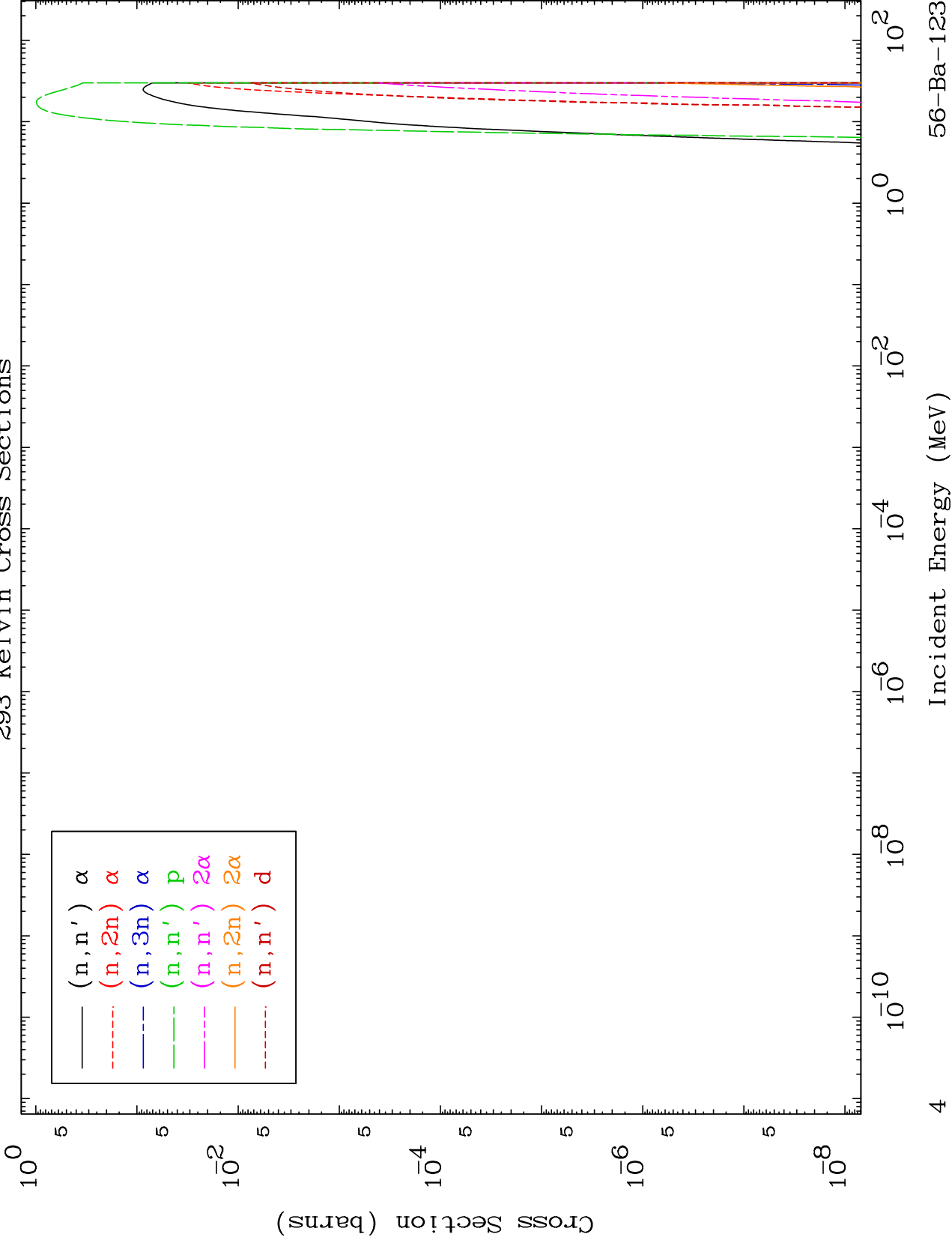
56-Ba-123



MAT 5604

Charged Particle  
293 Kelvin Cross Sections

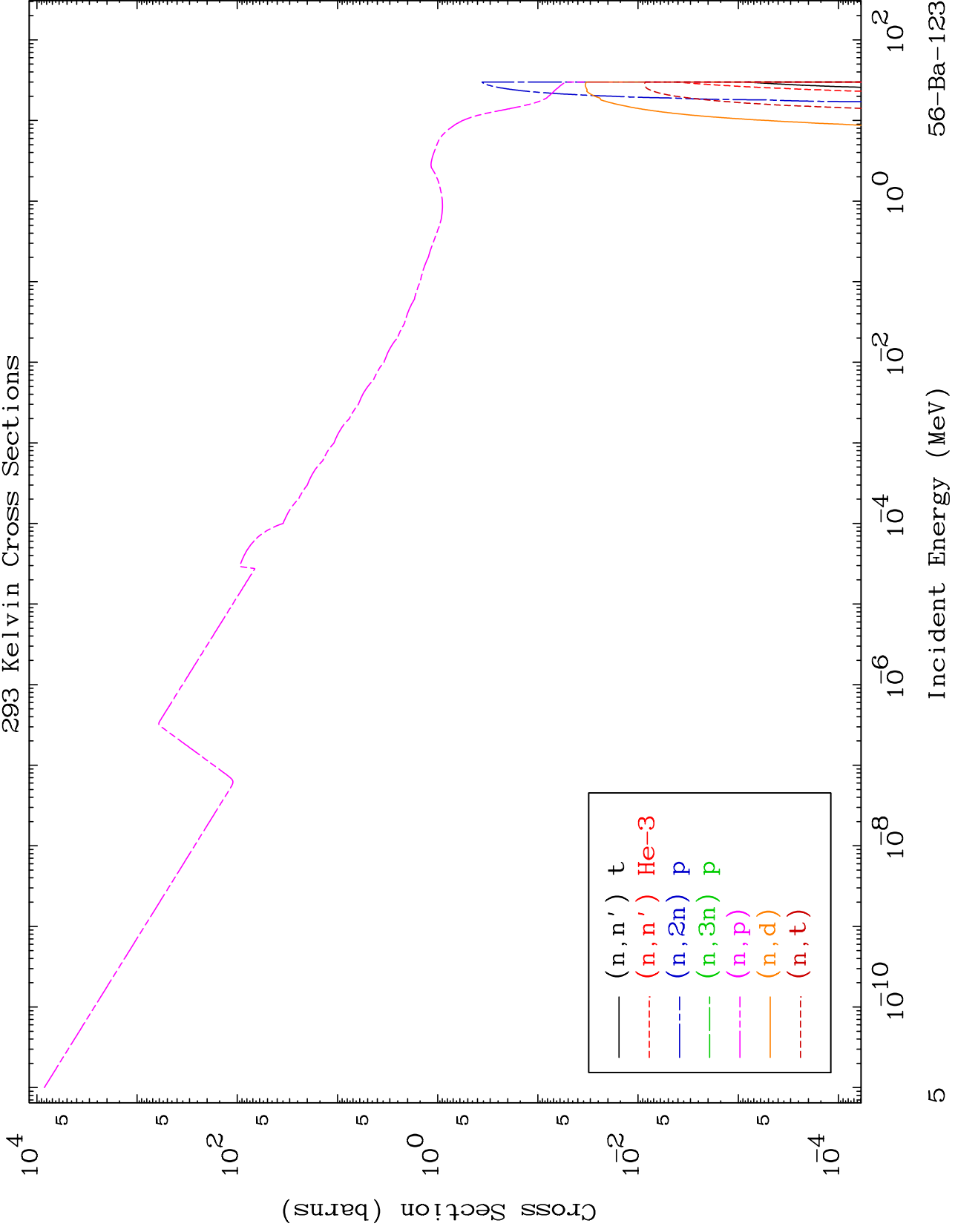
56-Ba-123

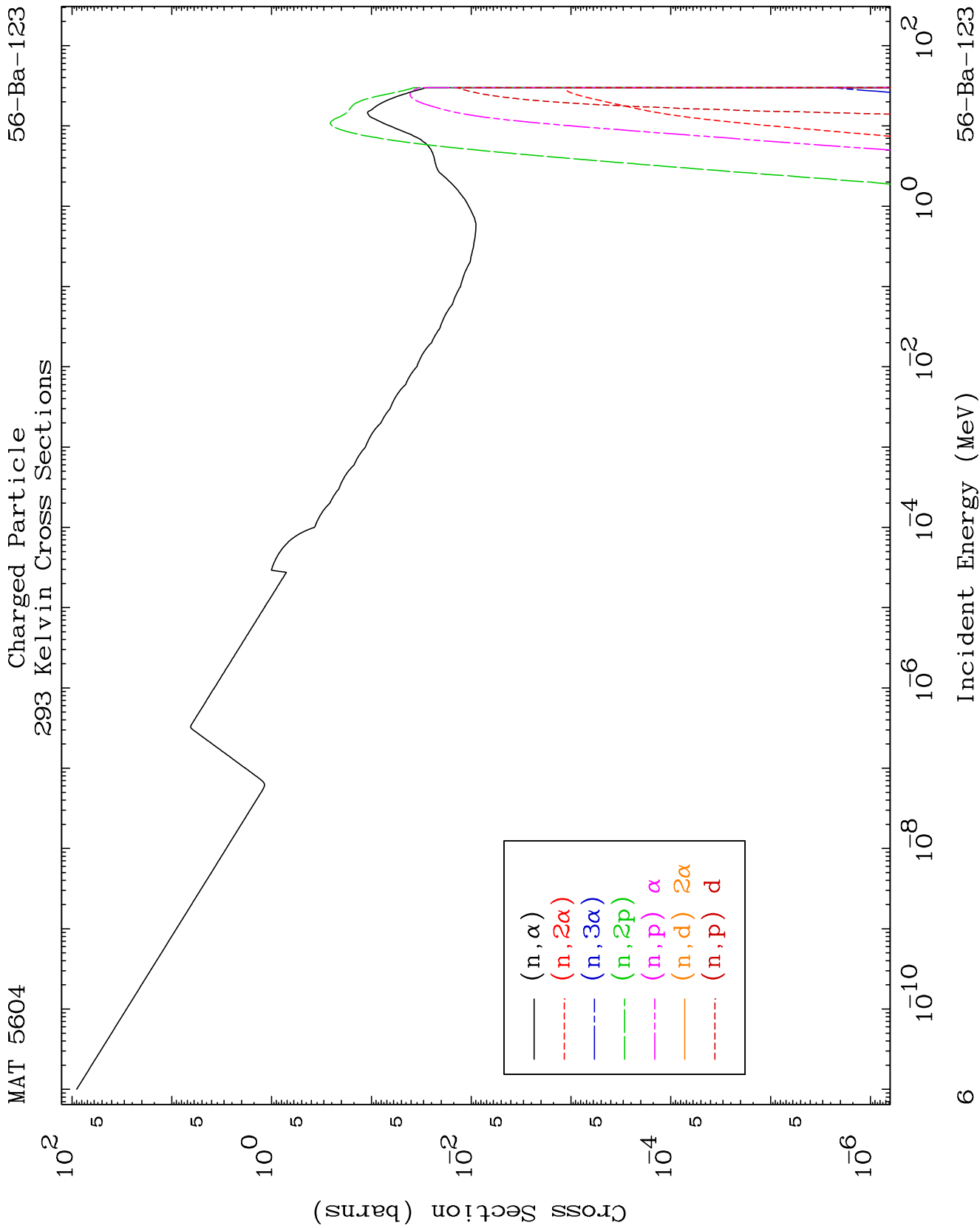


MAT 5604

Charged Particle  
293 Kelvin Cross Sections

56-Ba-123

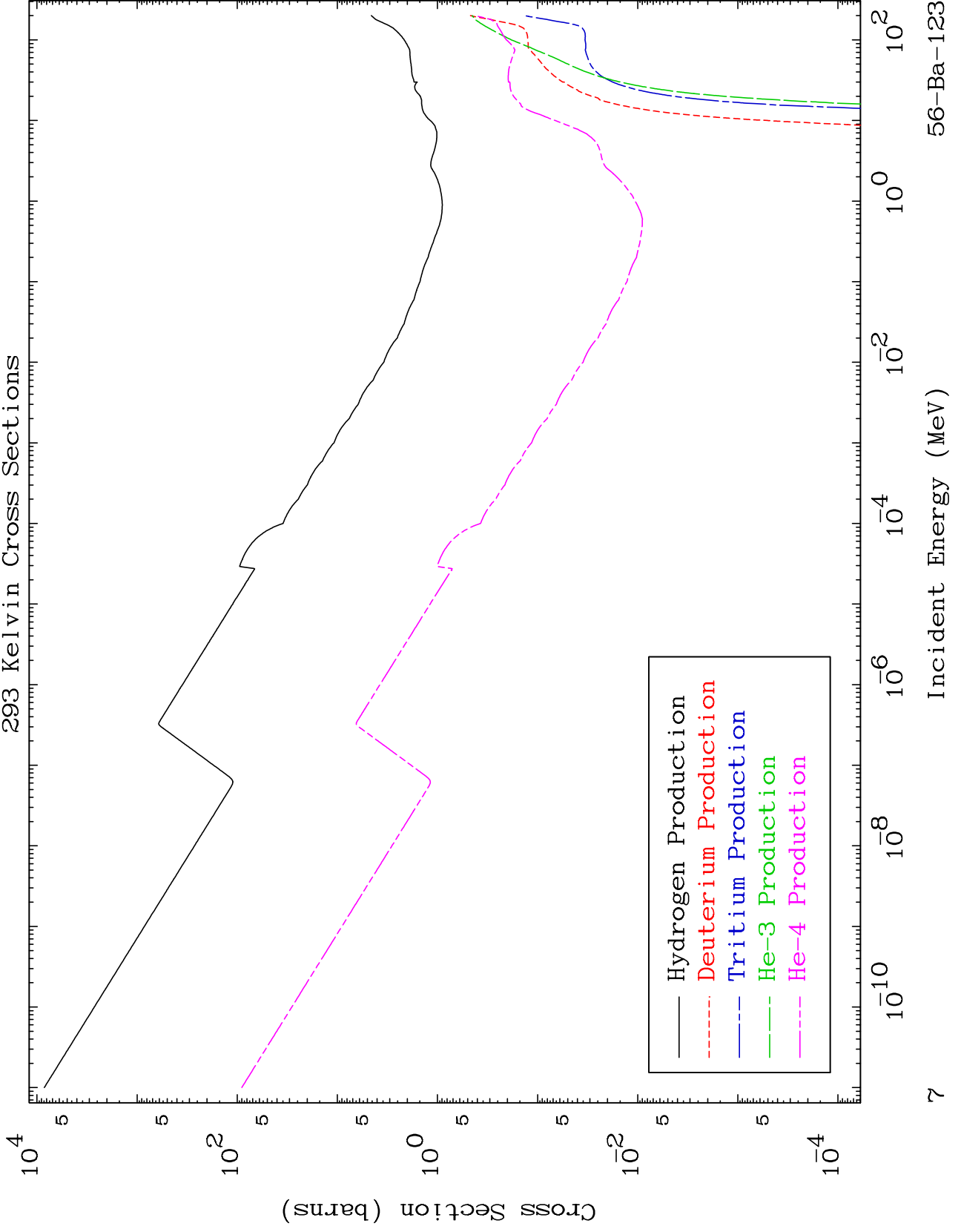




MAT 5604

Particle Production  
293 Kelvin Cross Sections

56-Ba-123

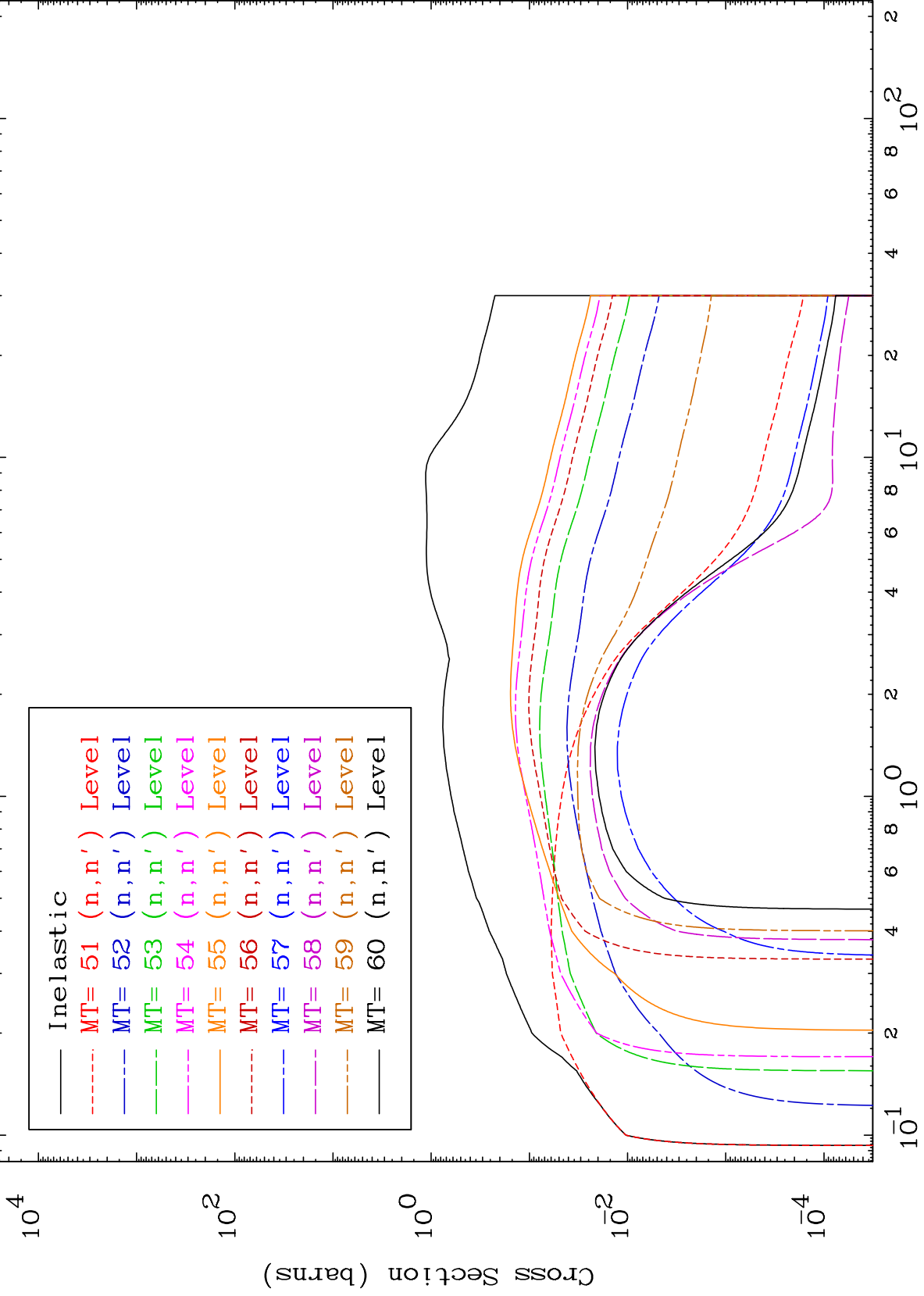




MAT 5604

(n,n') Level  
293 Kelvin Cross Sections

56-Ba-123

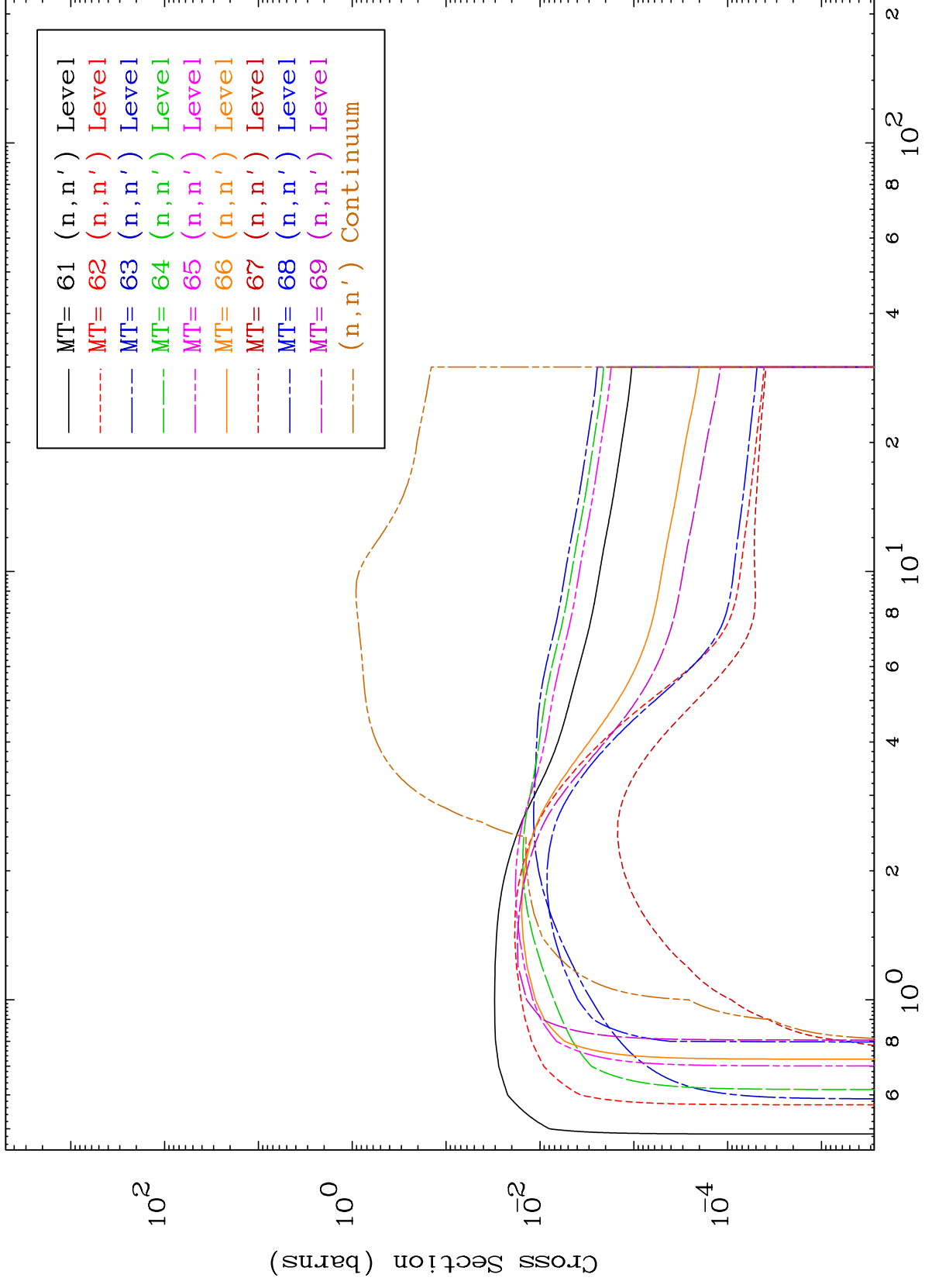


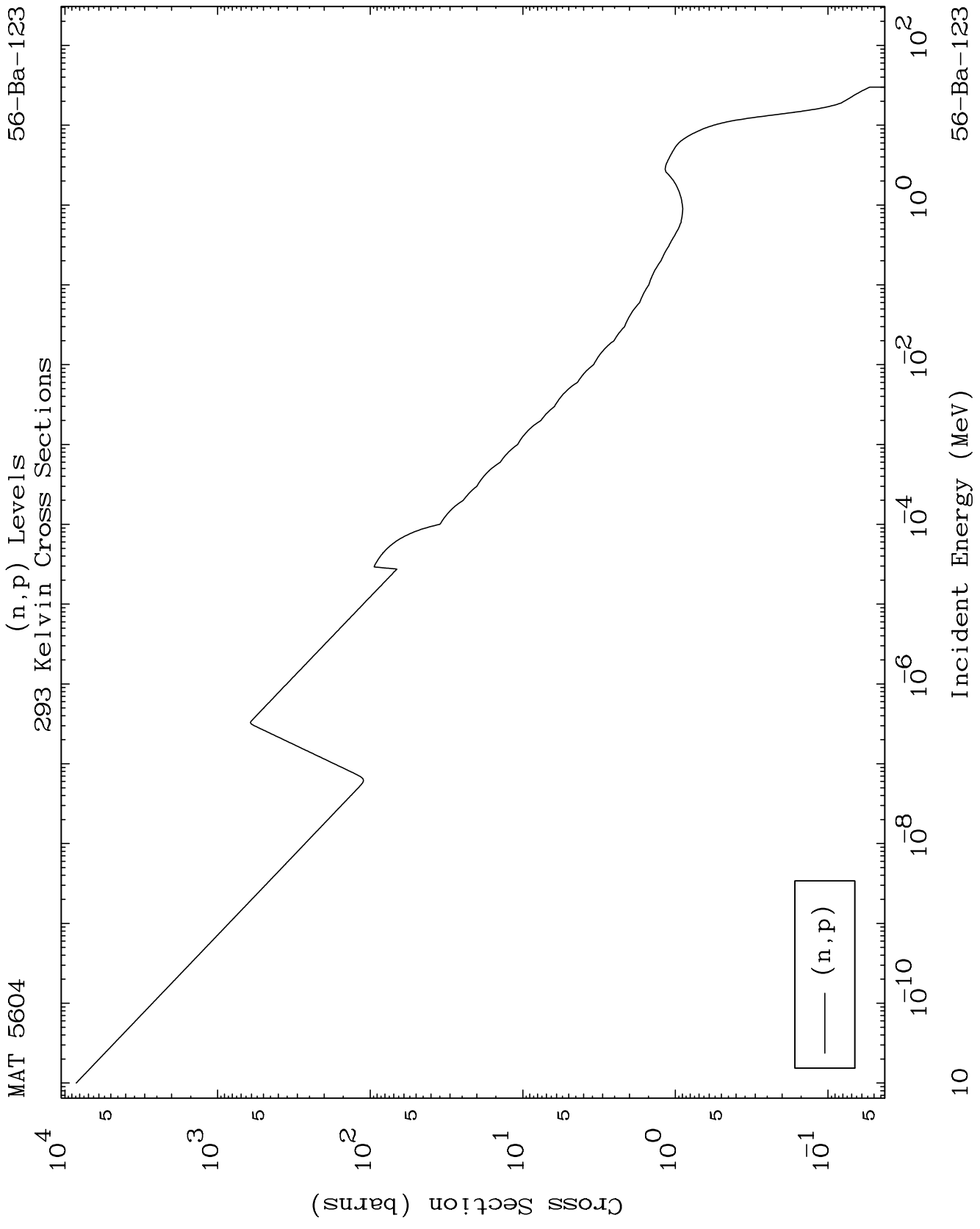
8

Incident Energy (MeV)

56-Ba-123

293 Kelvin Cross Sections

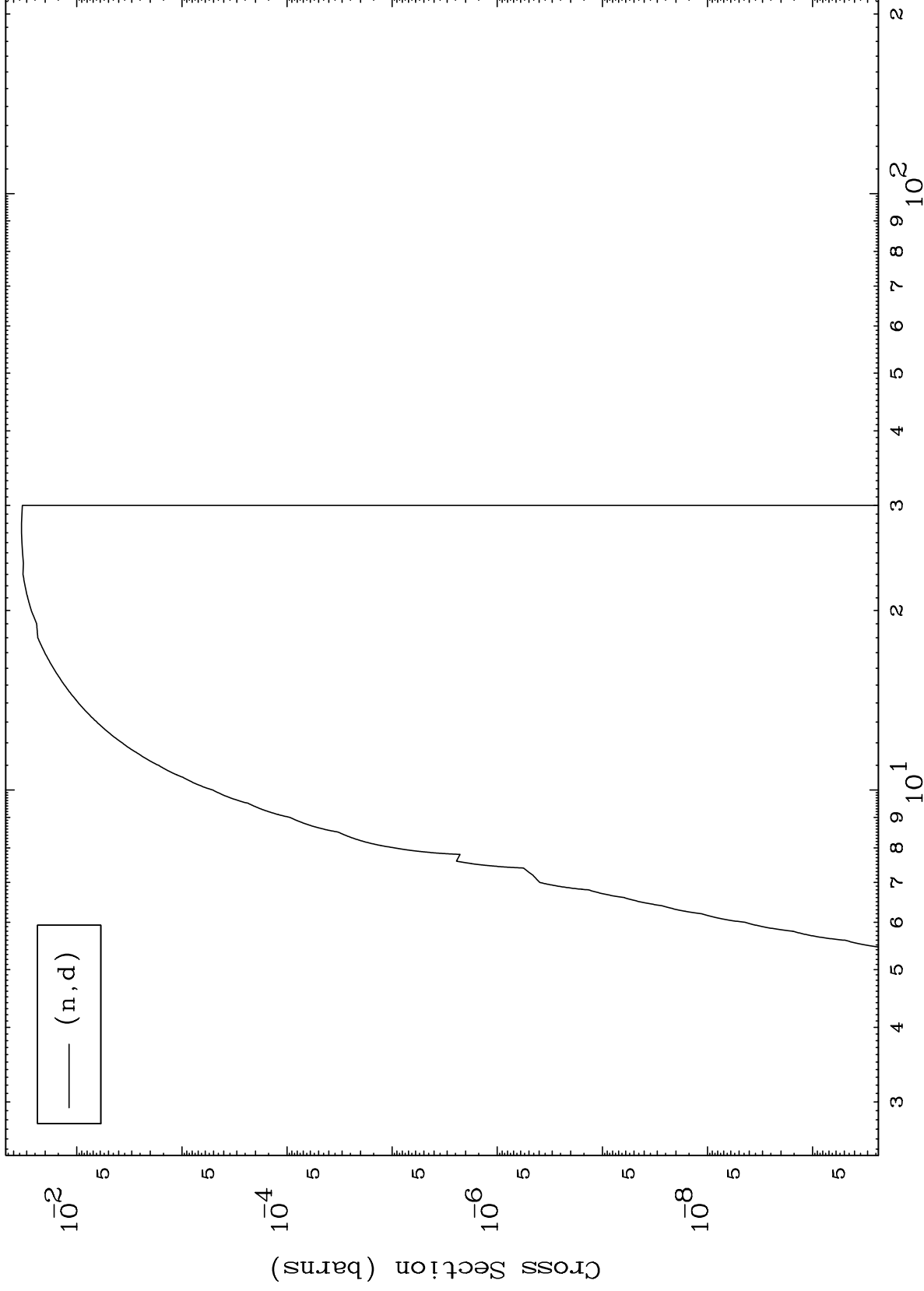




MAT 5604

(n,d) Levels  
293 Kelvin Cross Sections

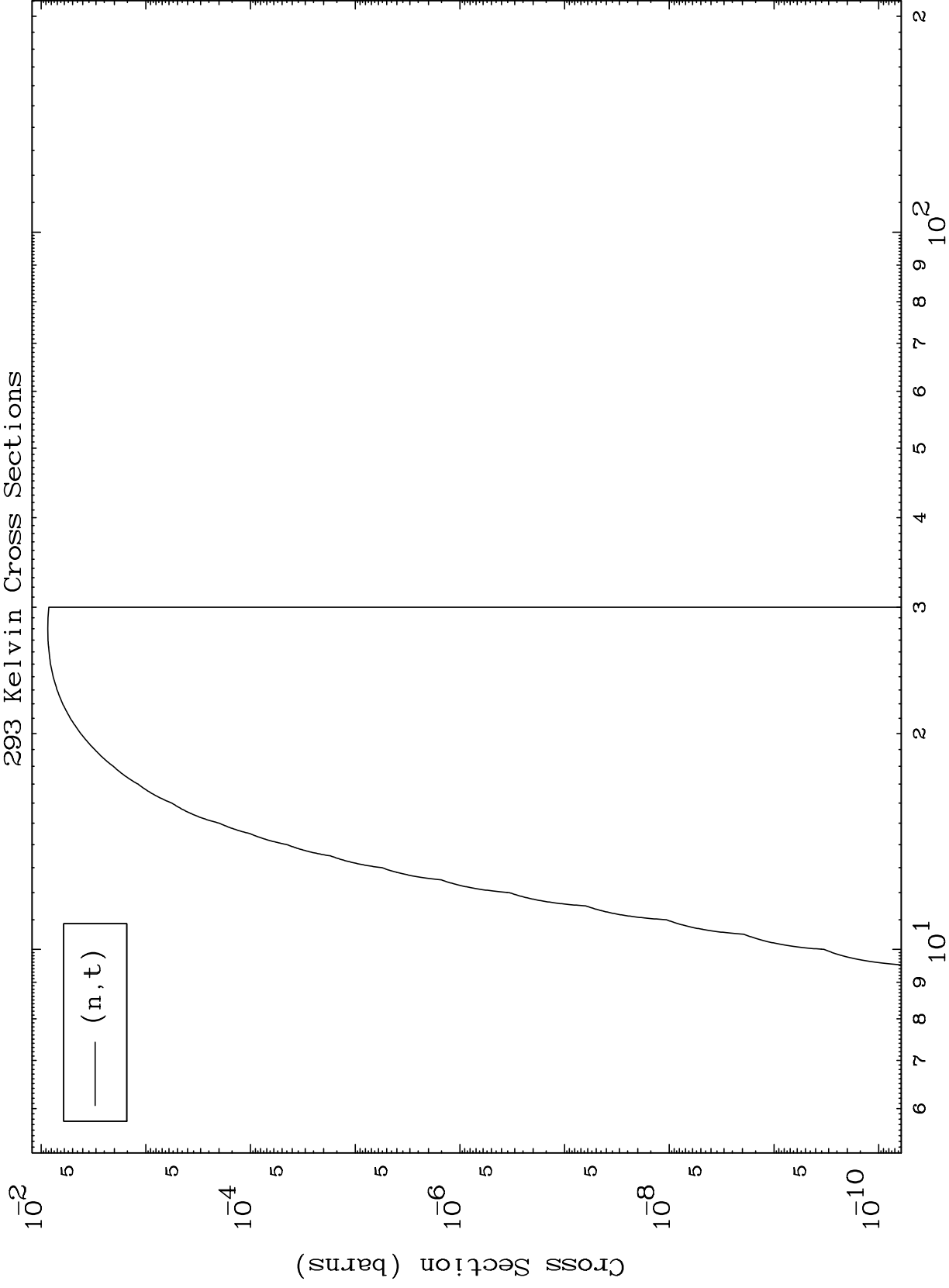
56-Ba-123



MAT 5604

(n,t) Levels  
293 Kelvin Cross Sections

56-Ba-123



12

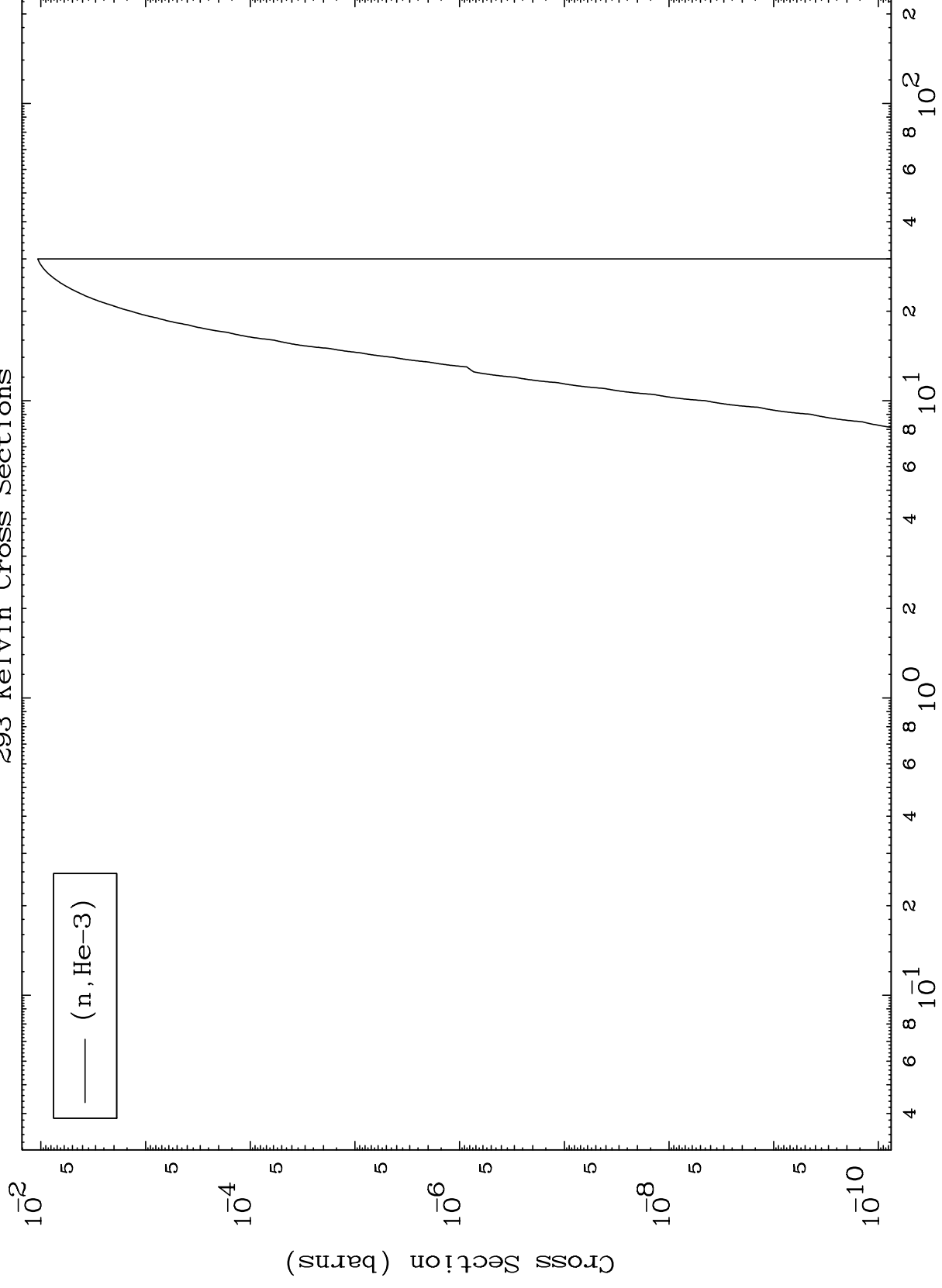
Incident Energy (MeV)

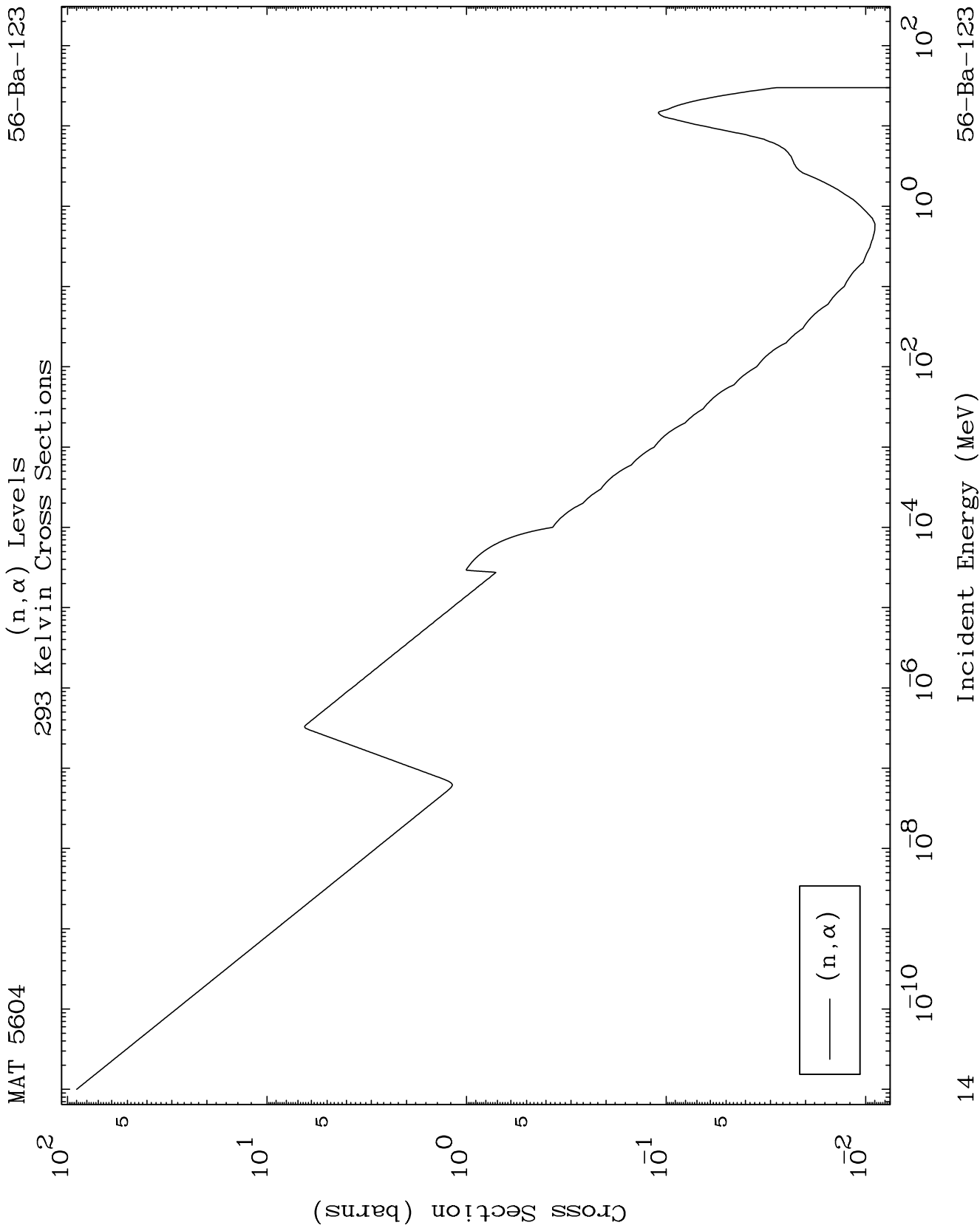
56-Ba-123

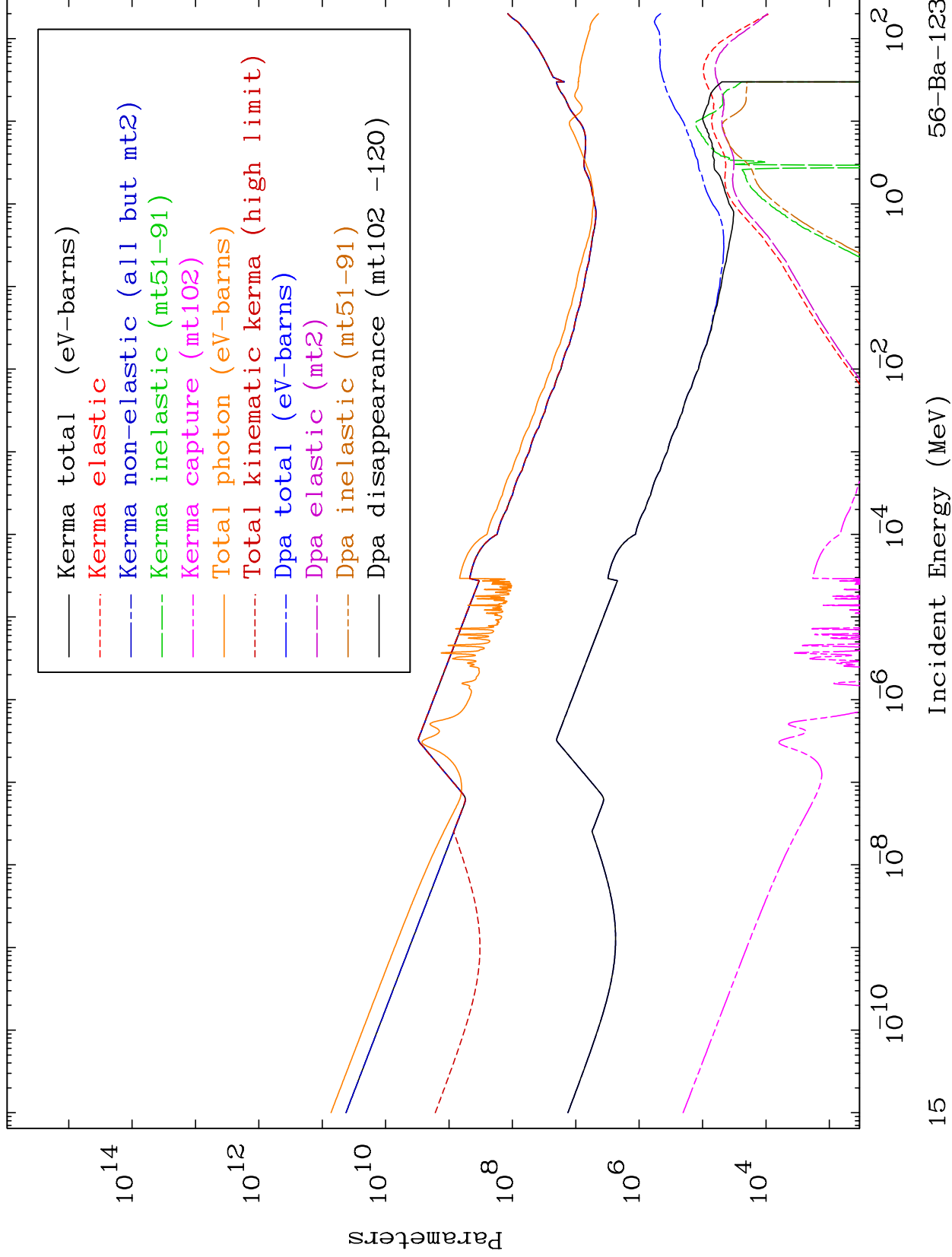
MAT 5604

(n,He3) Levels  
293 Kelvin Cross Sections

56-Ba-123





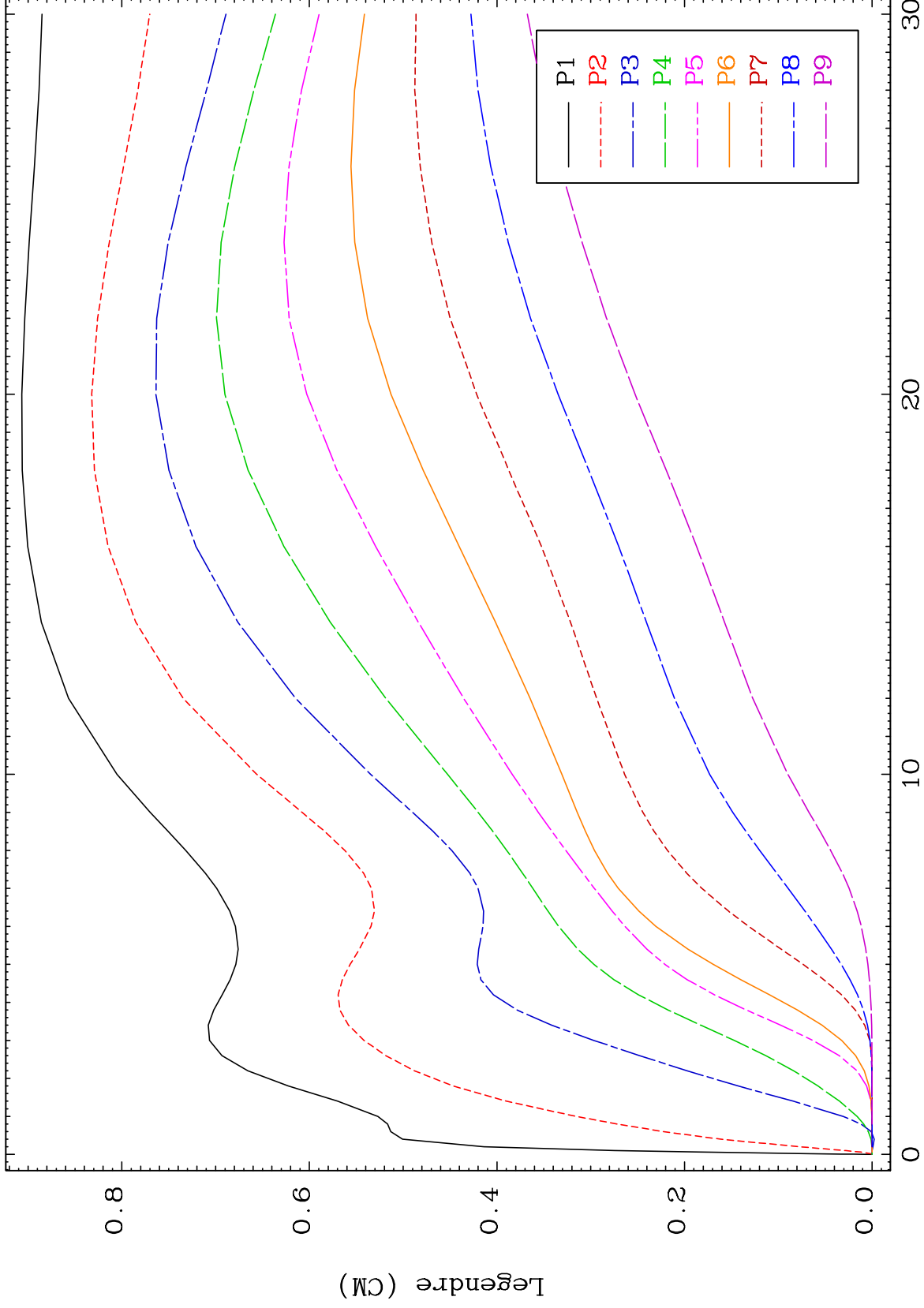




MAT 5604

Elastic Legendre Coefficients

56-Ba-123



16

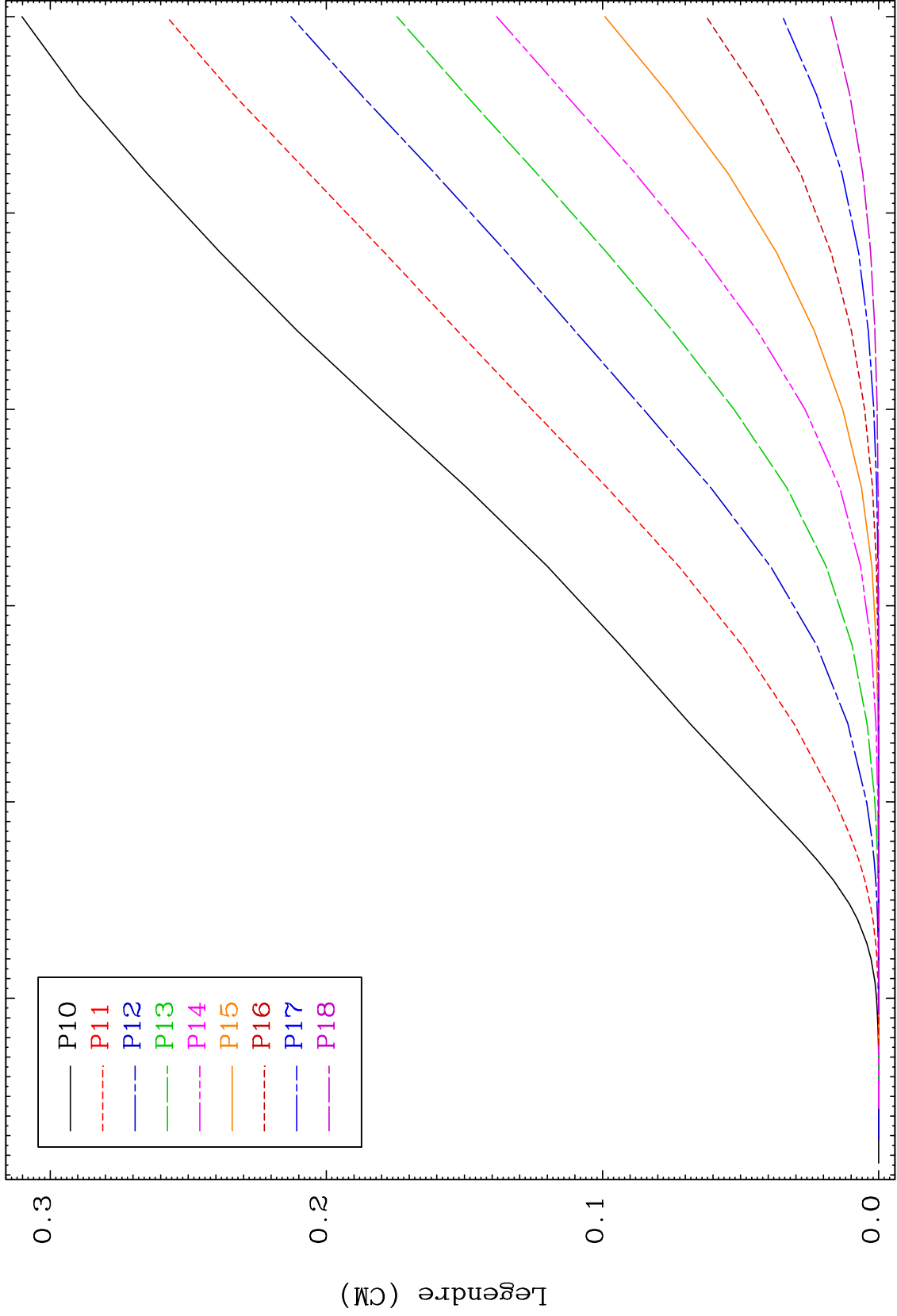
Incident Energy (MeV)

56-Ba-123

MAT 5604

Elastic Legendre Coefficients

56-Ba-123



17

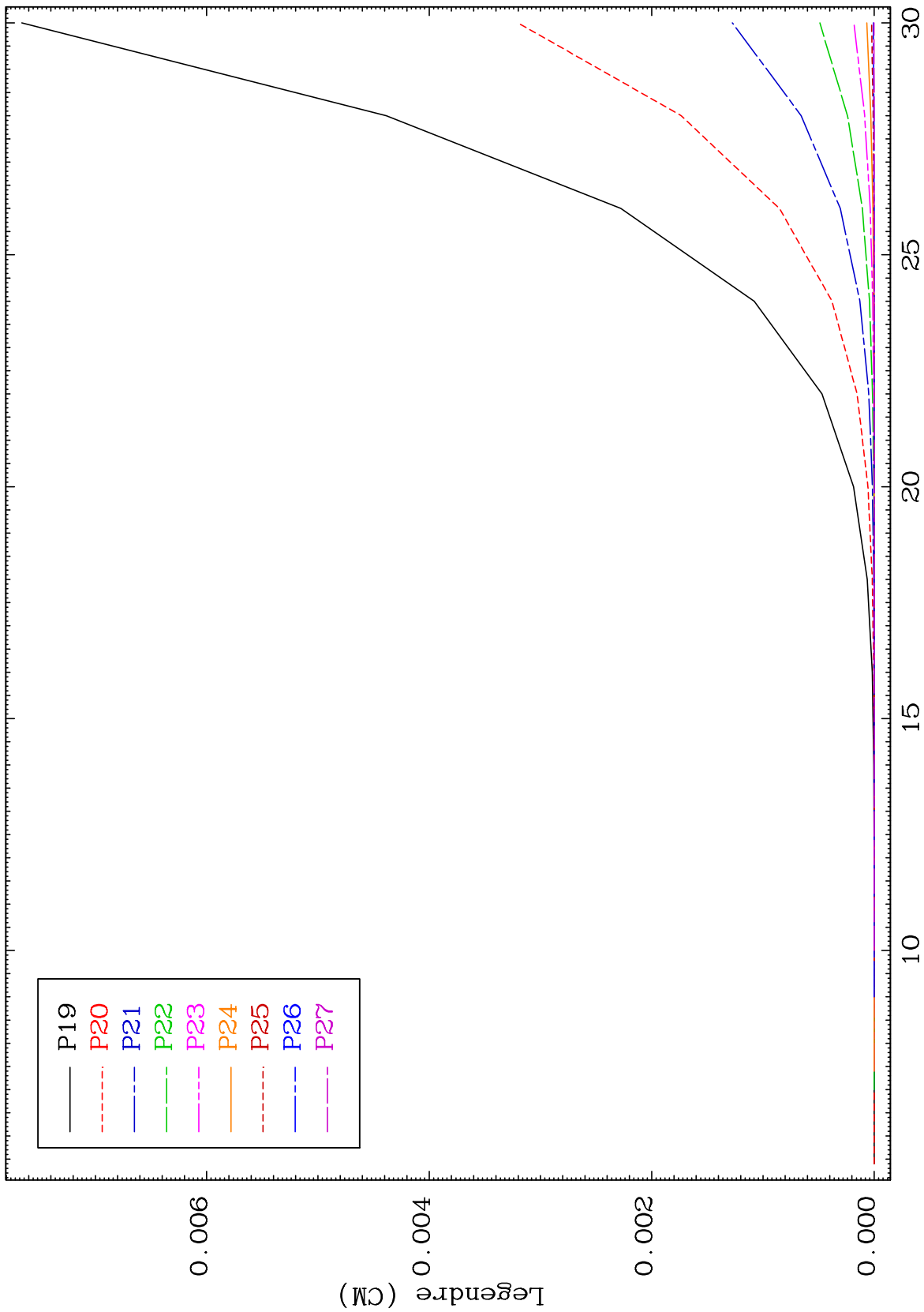
Incident Energy (MeV)

56-Ba-123

MAT 5604

Elastic Legendre Coefficients

56-Ba-123



18

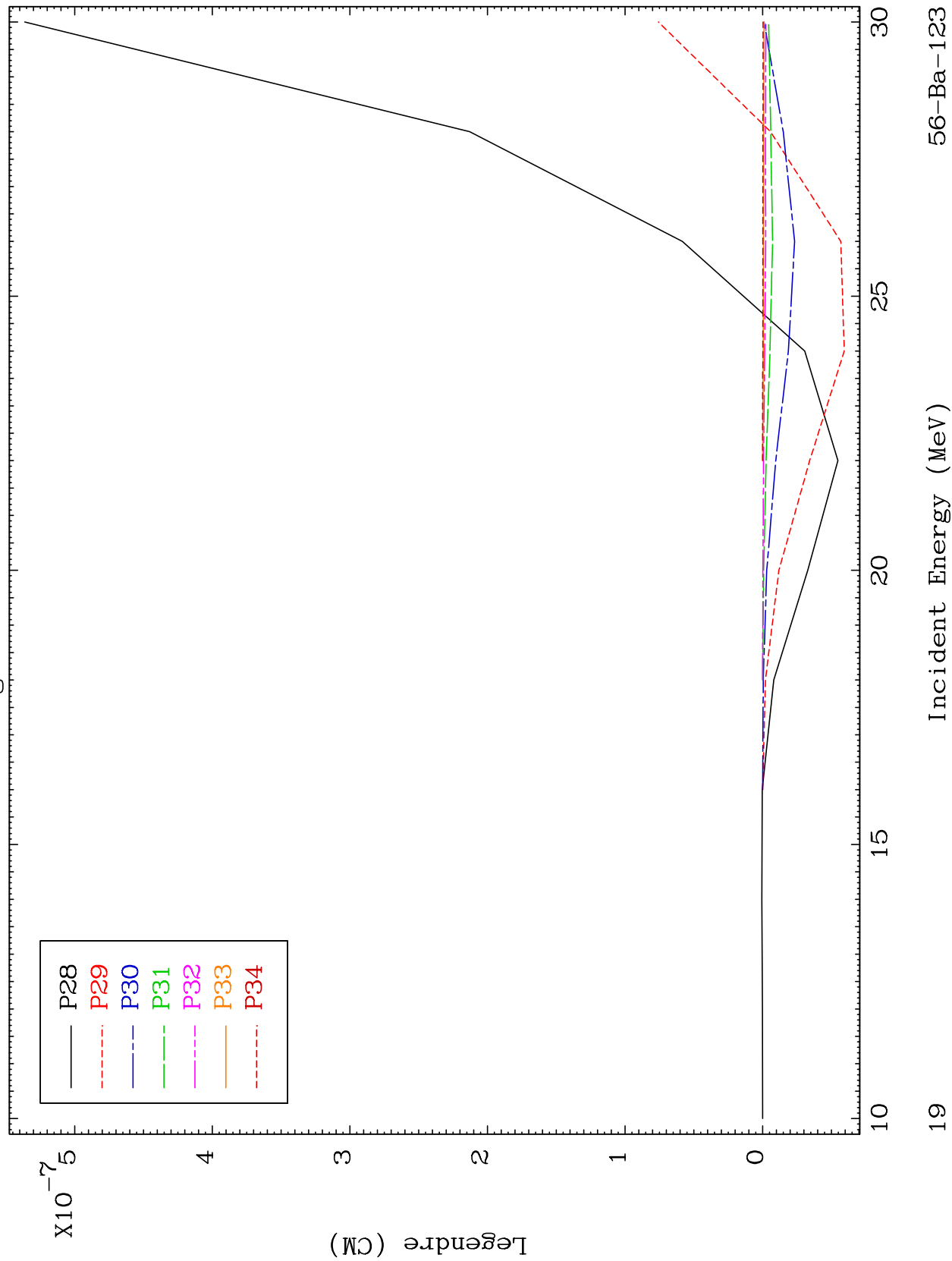
Incident Energy (MeV)

56-Ba-123

MAT 5604

Elastic Legendre Coefficients

56-Ba-123



19

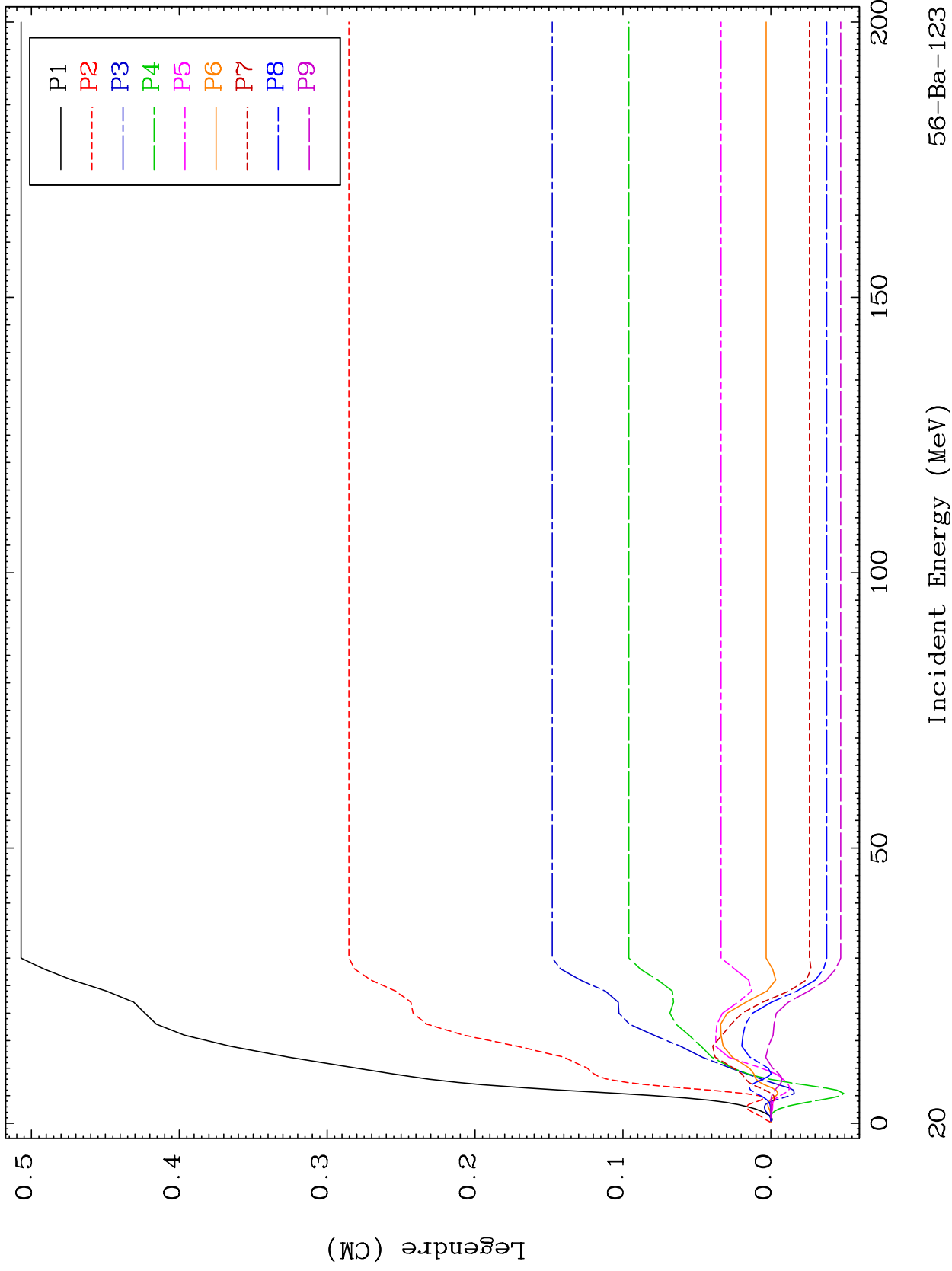
Incident Energy (MeV)

56-Ba-123

MAT 5604

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

56-Ba-123



56-Ba-123

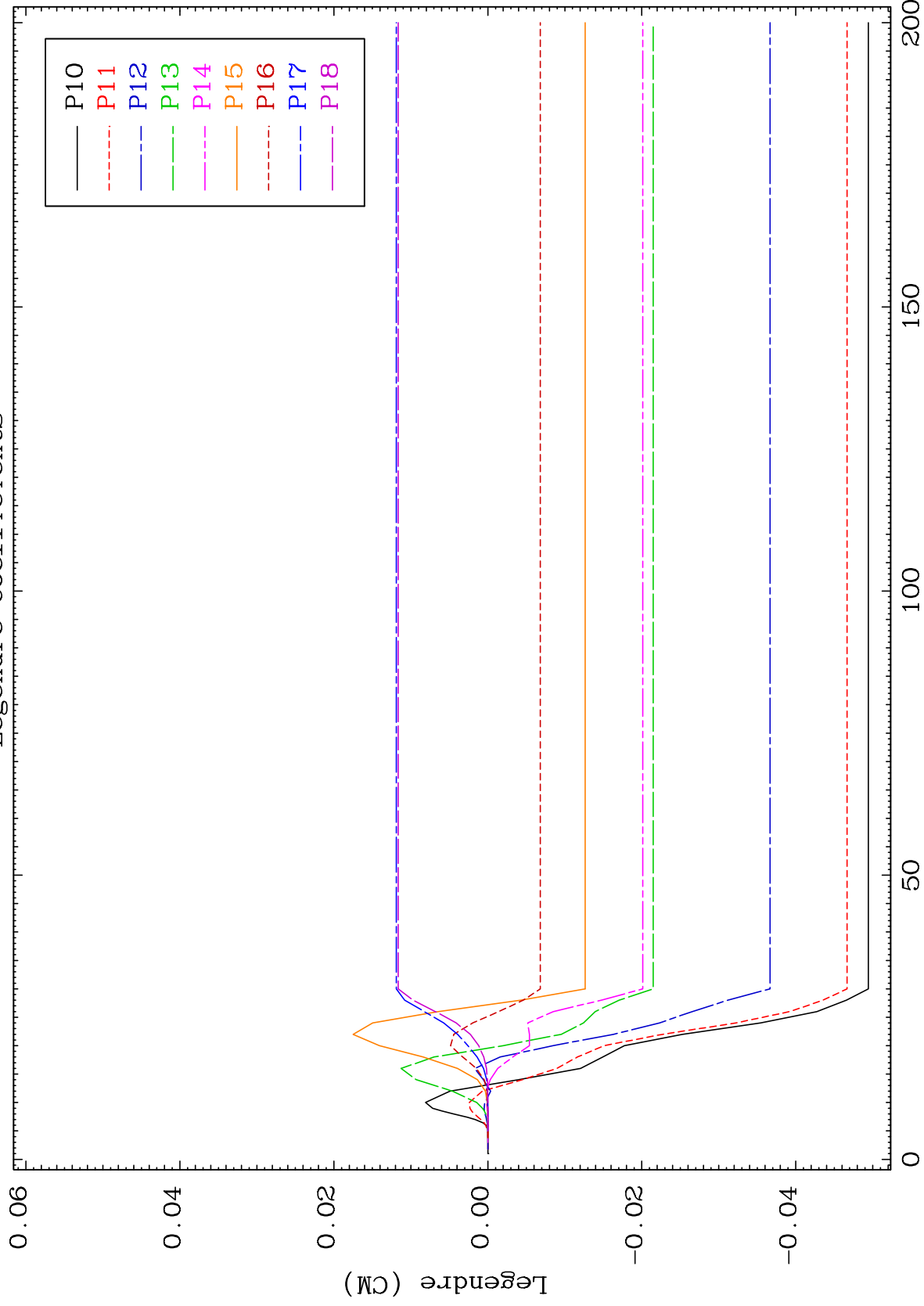
Incident Energy (MeV)

20

MAT 5604

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

56-Ba-123



21

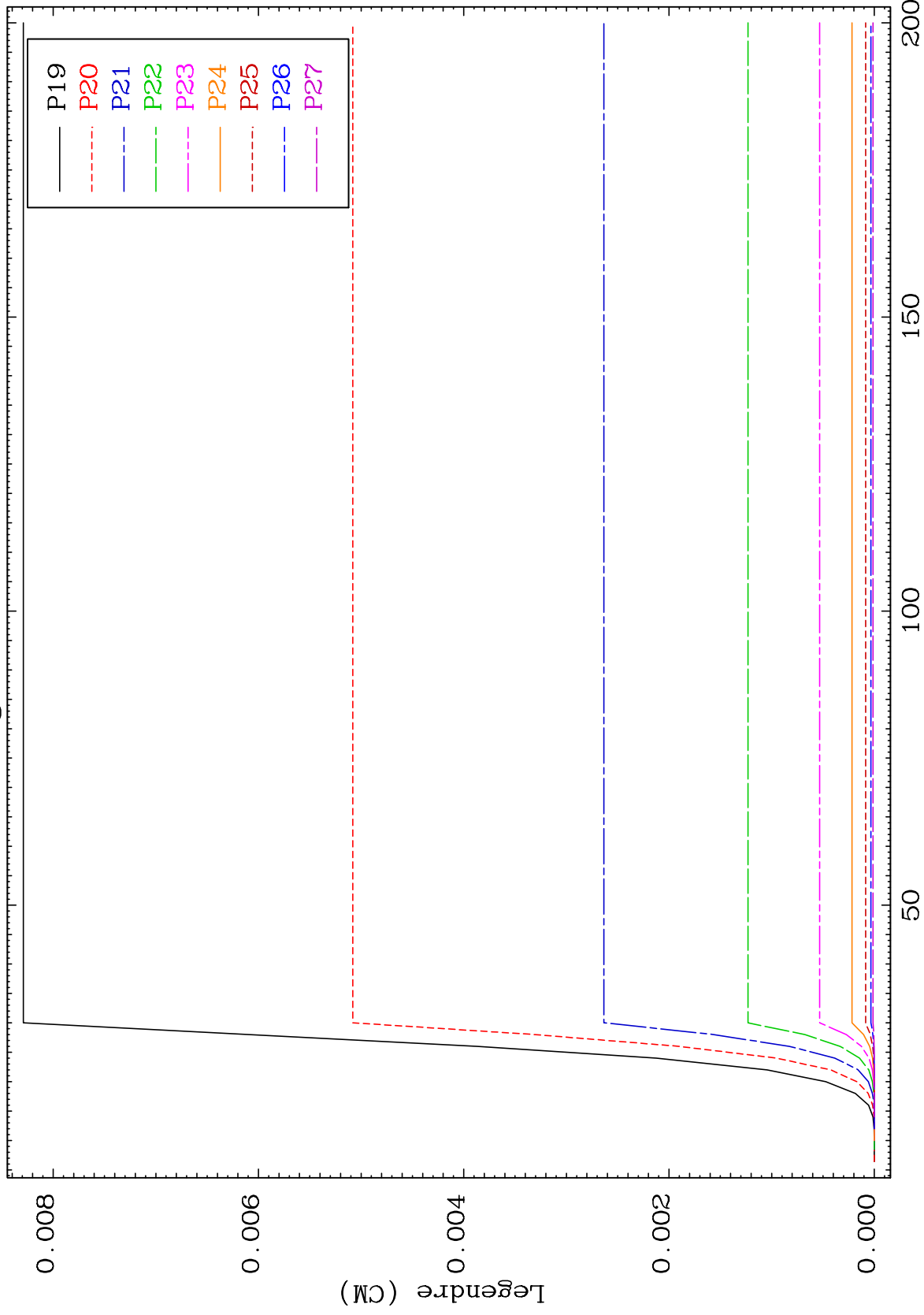
Incident Energy (MeV)

56-Ba-123

MAT 5604

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

56-Ba-123



22

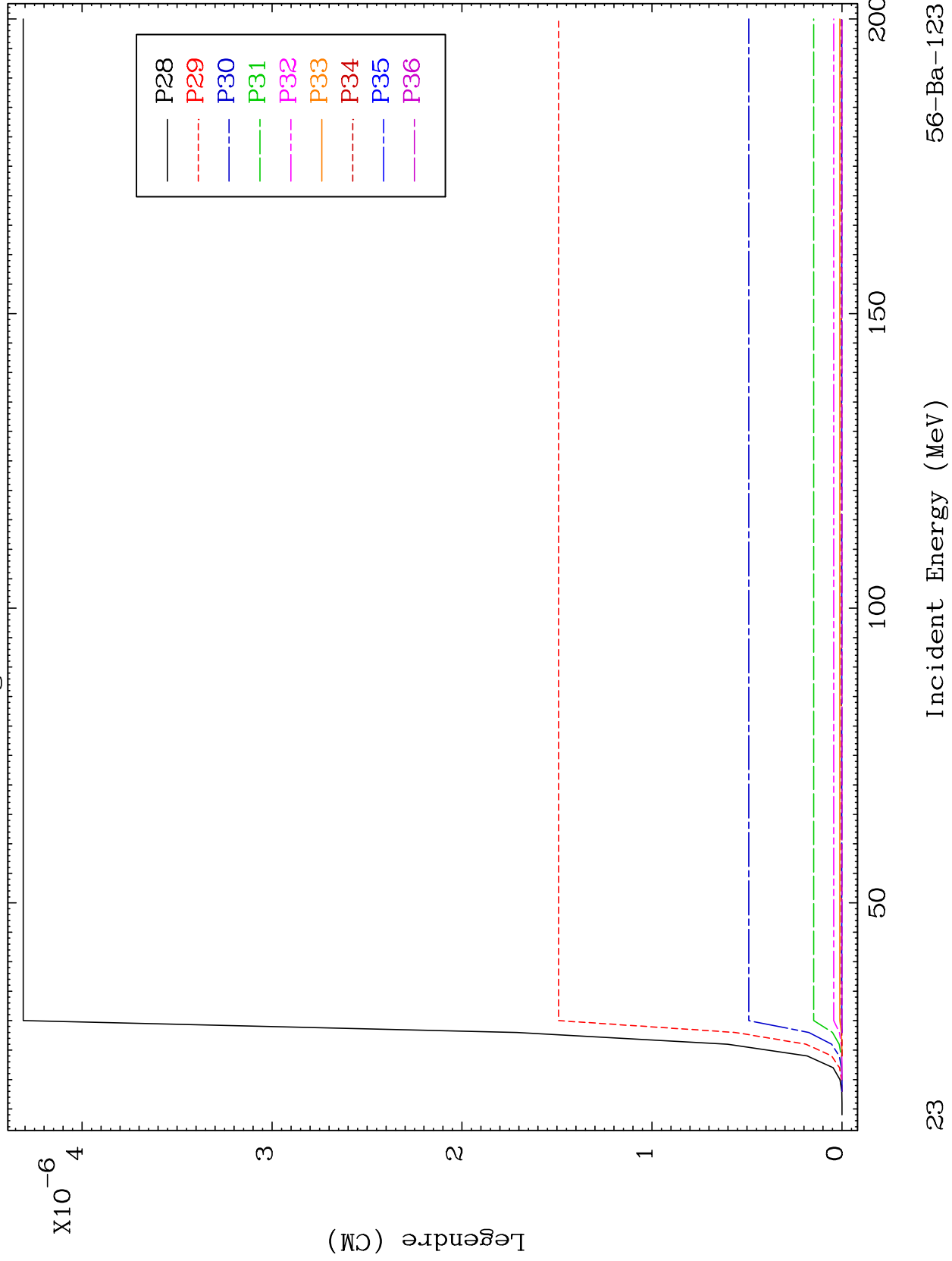
Incident Energy (MeV)

56-Ba-123

MAT 5604

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

56-Ba-123



23

Incident Energy (MeV)

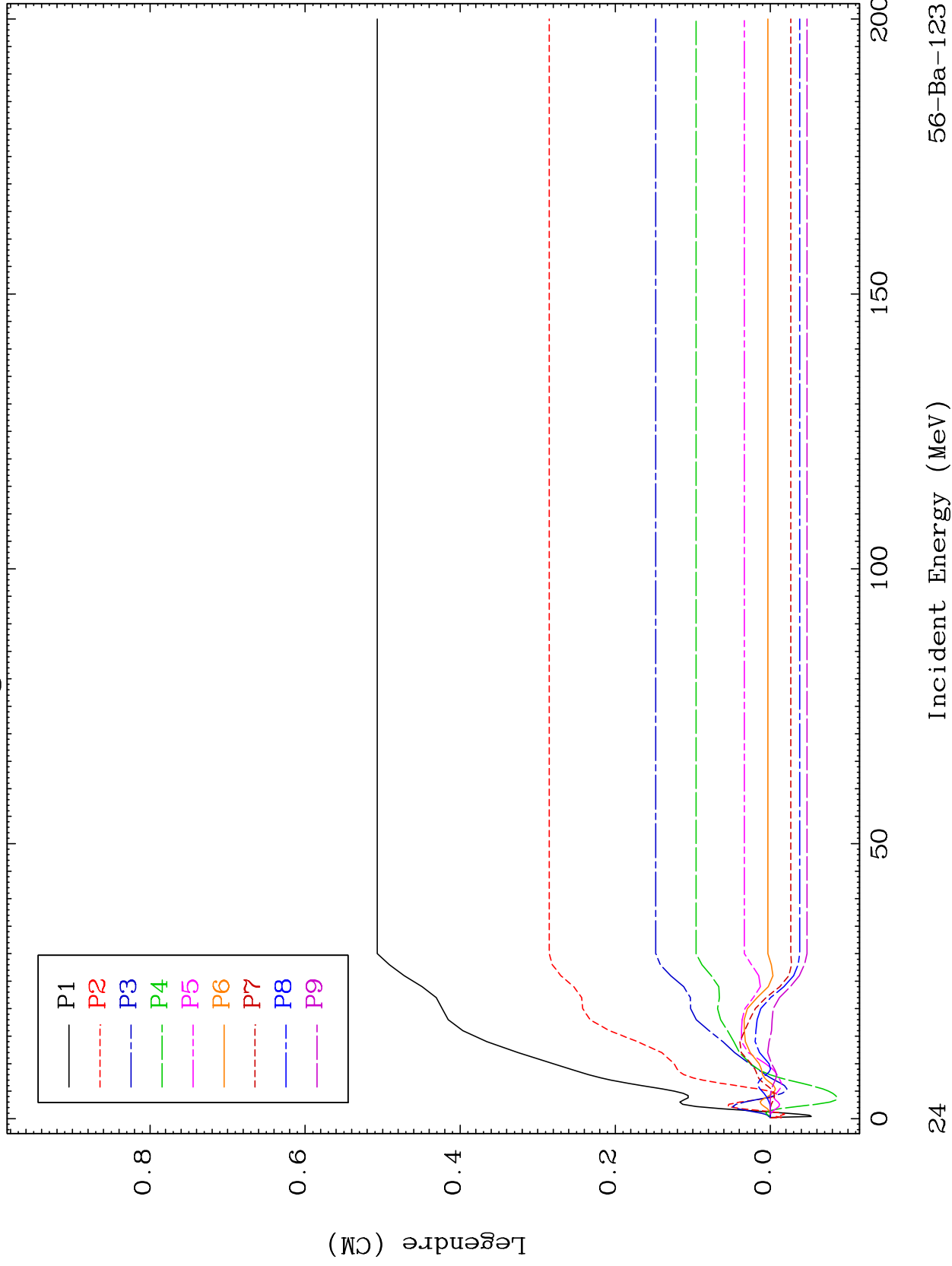
56-Ba-123



MAT 5604

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

56-Ba-123



56-Ba-123

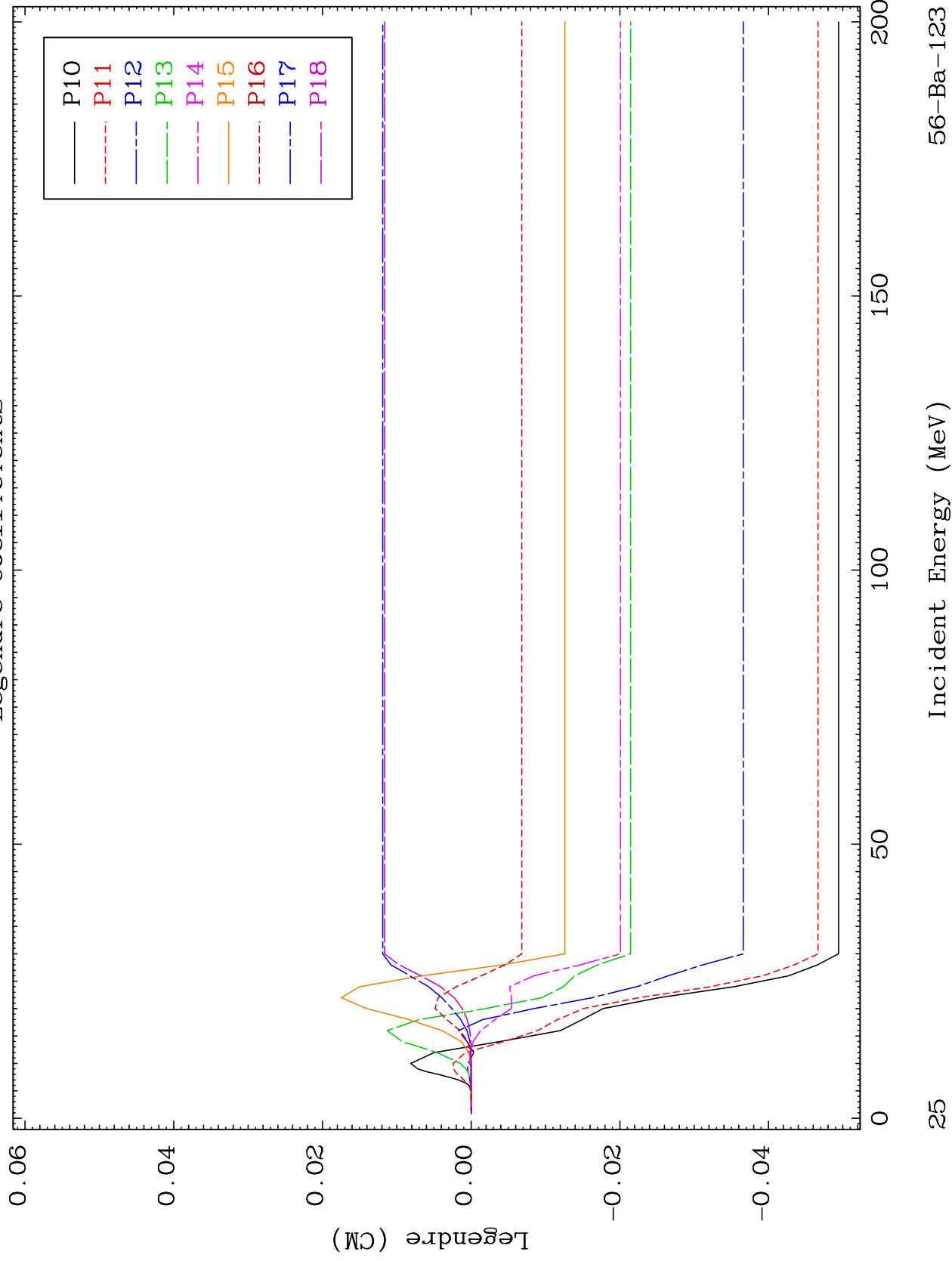
Incident Energy (MeV)

24

MAT 5604

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

56-Ba-123



56-Ba-123

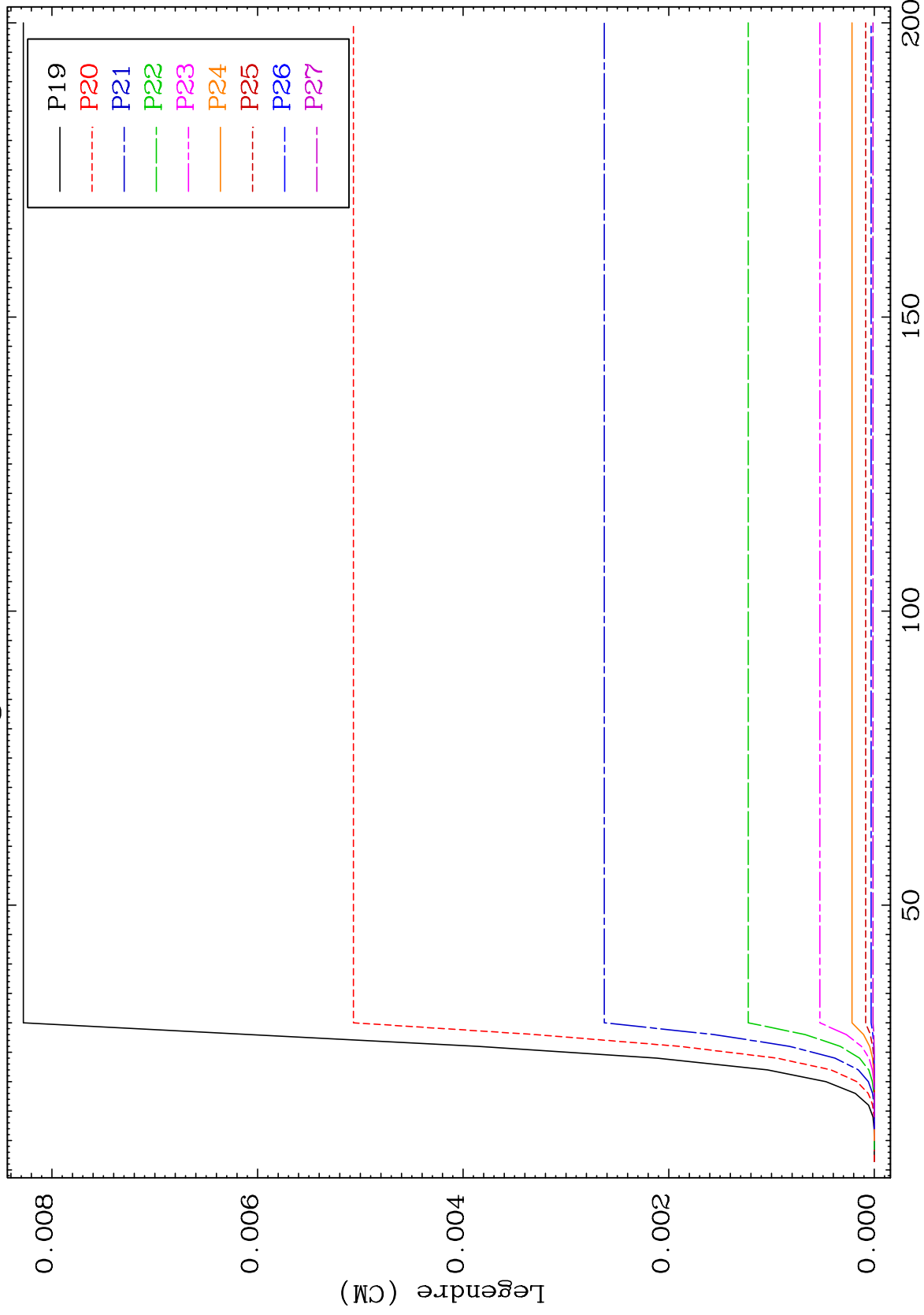
Incident Energy (MeV)

25

MAT 5604

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

56-Ba-123



26

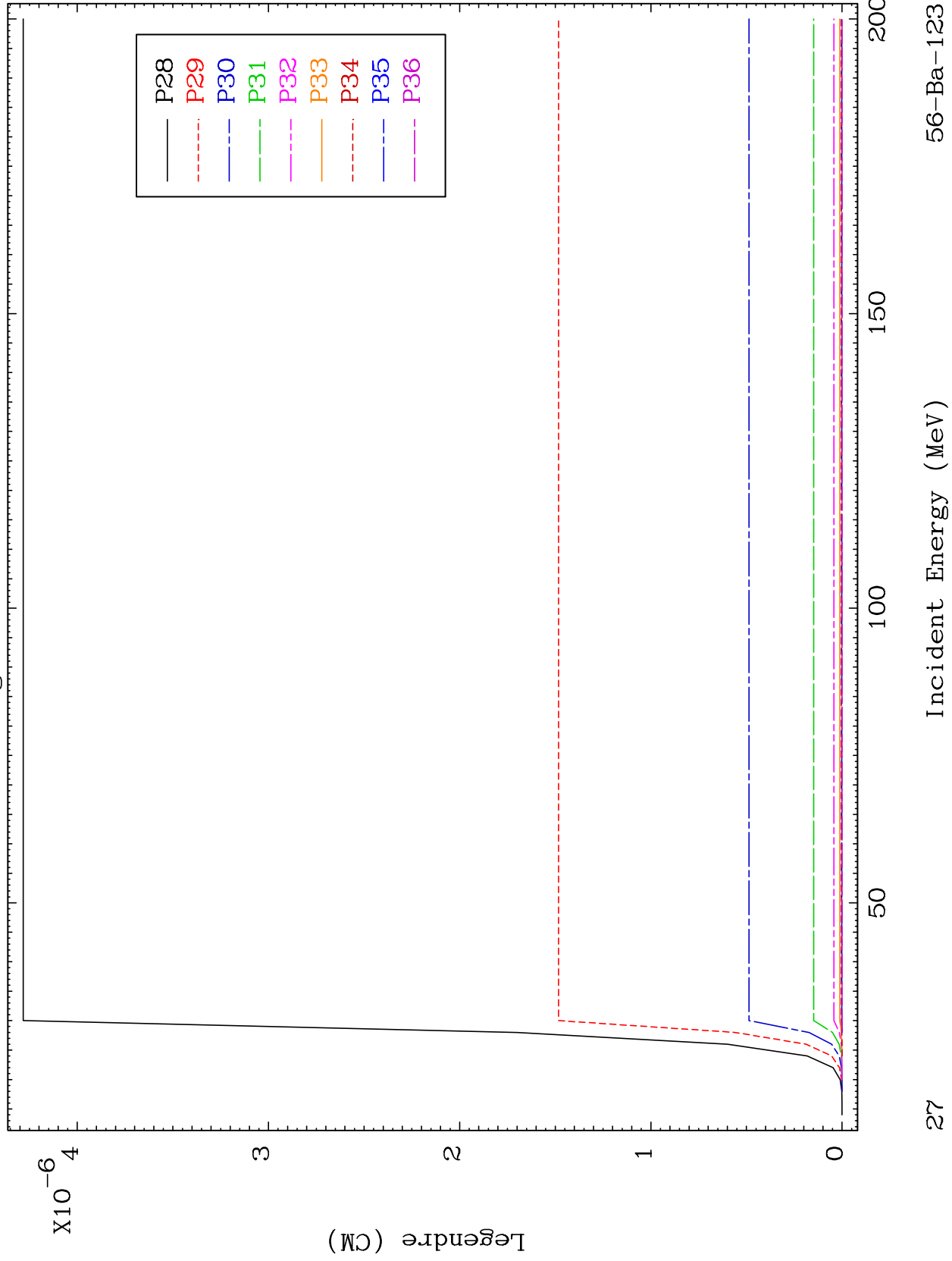
Incident Energy (MeV)

56-Ba-123

MAT 5604

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

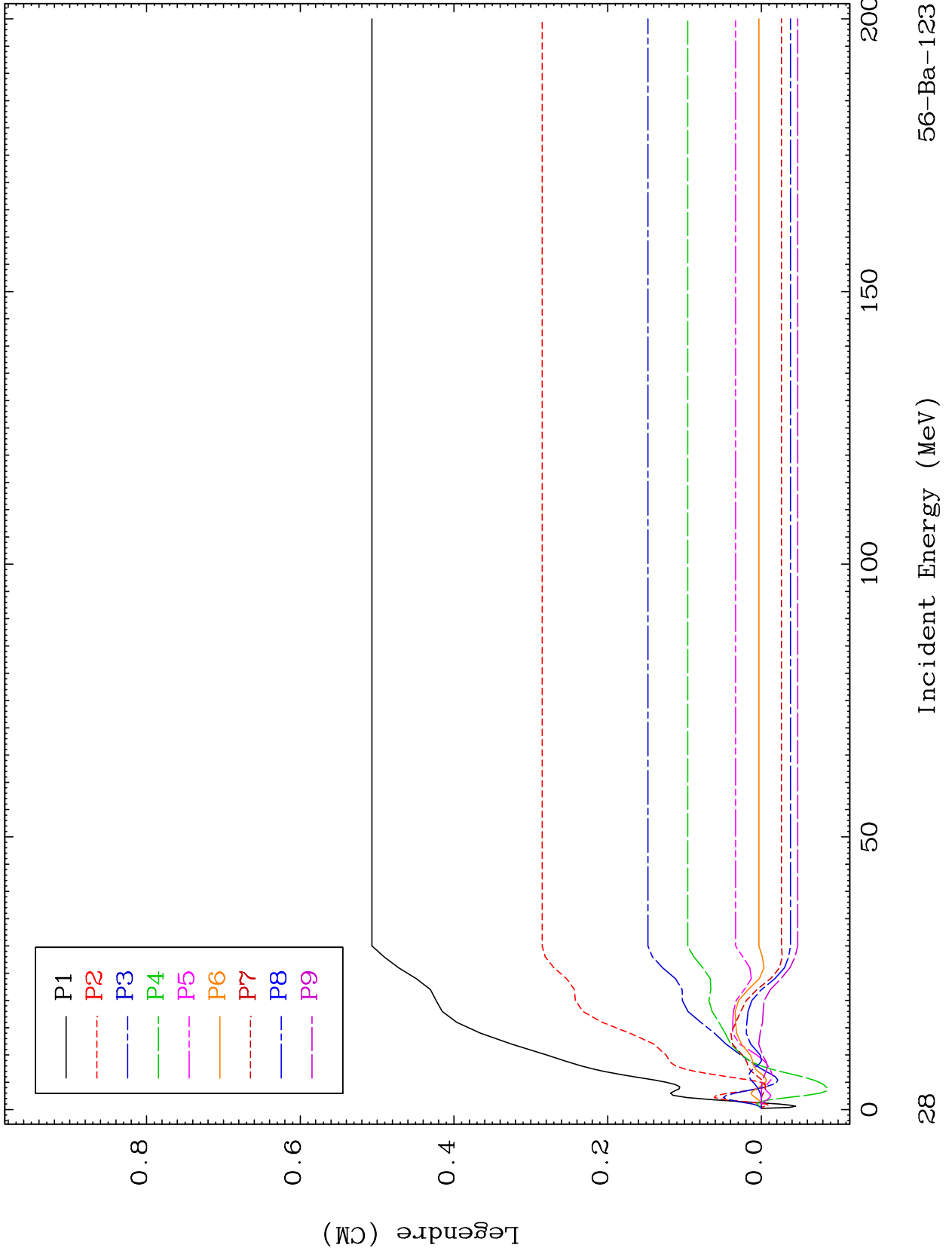
56-Ba-123



MAT 5604

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

56-Ba-123



28

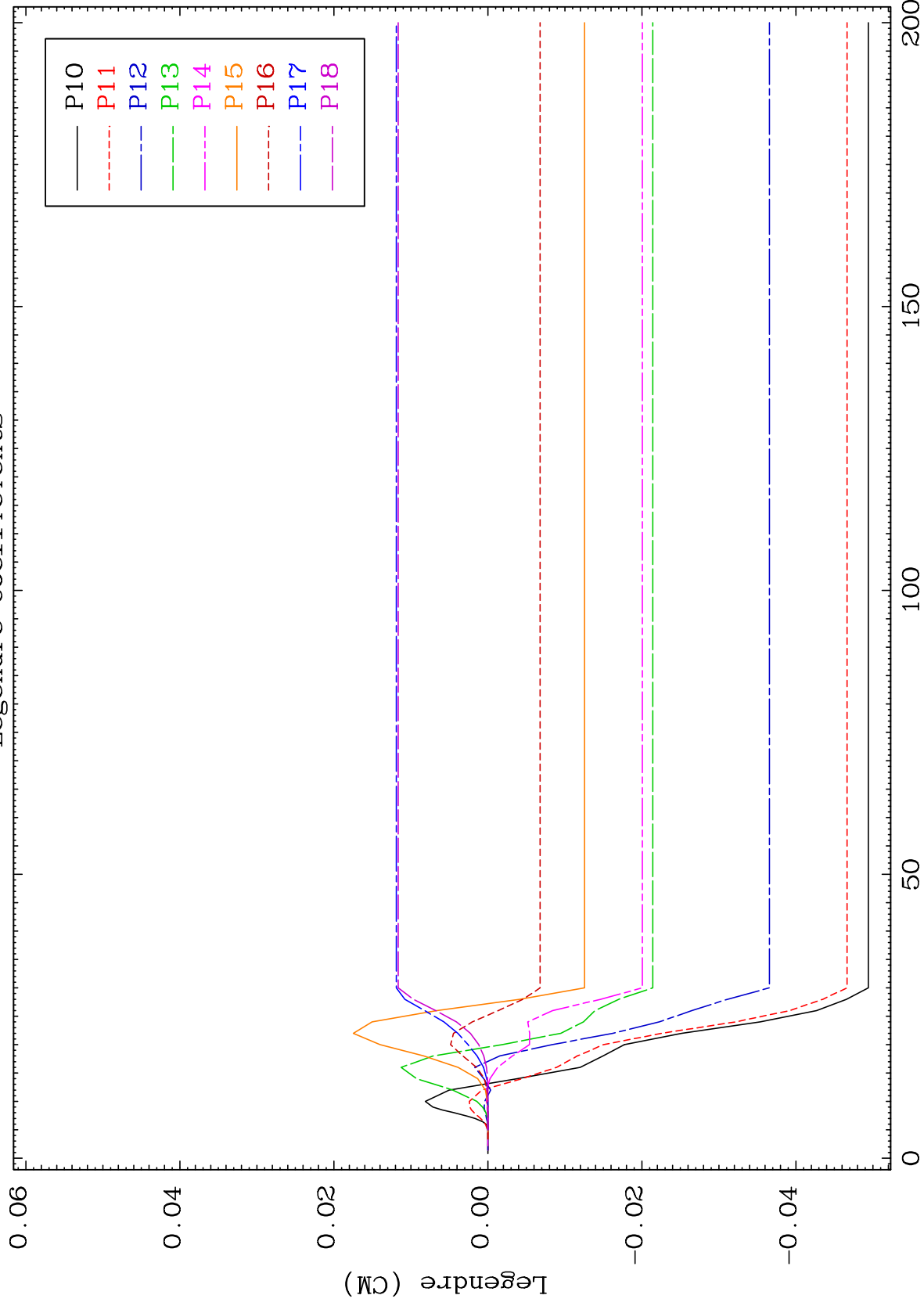
Incident Energy (MeV)

56-Ba-123

MAT 5604

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

56-Ba-123



29

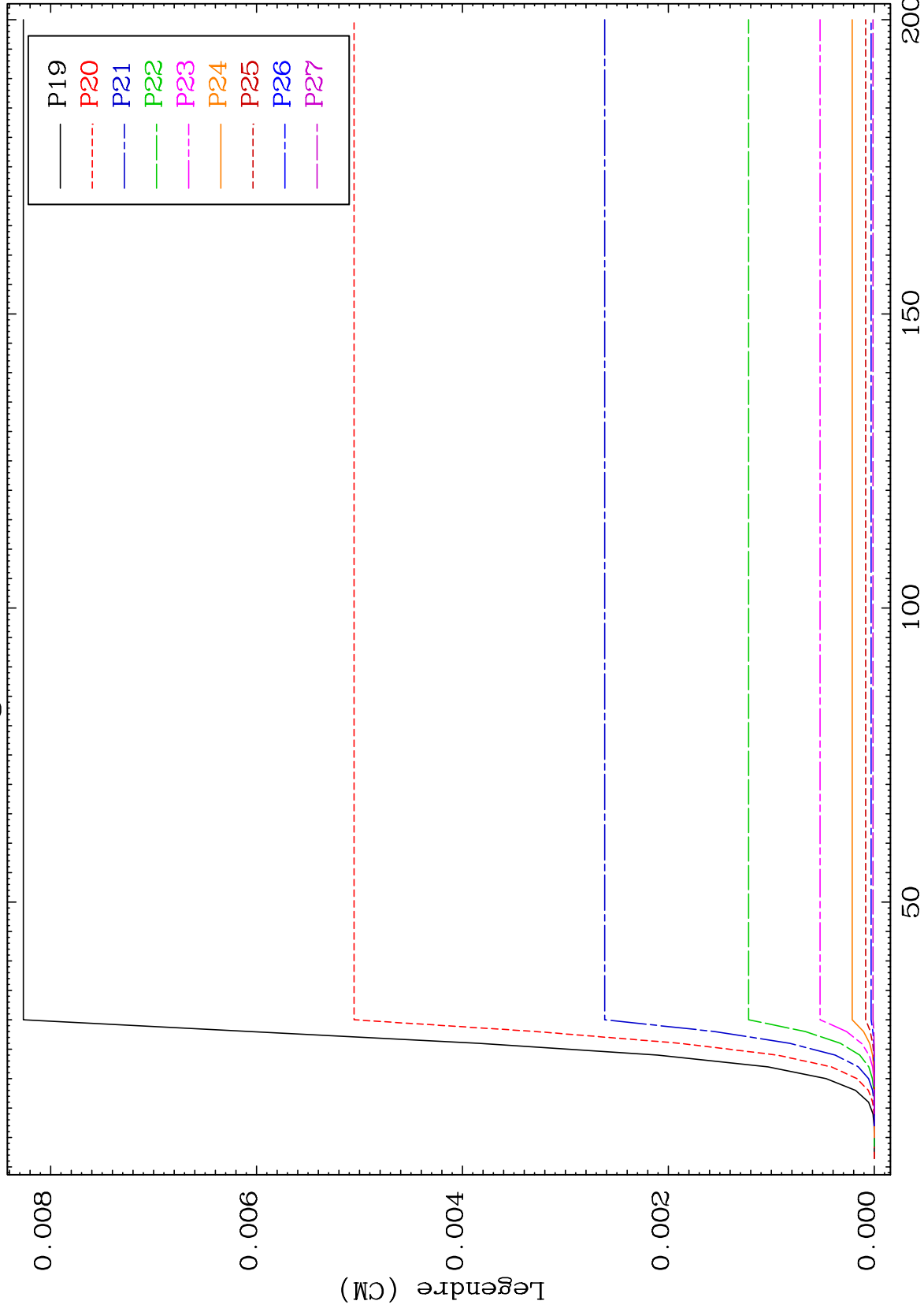
Incident Energy (MeV)

56-Ba-123

MAT 5604

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

56-Ba-123



30

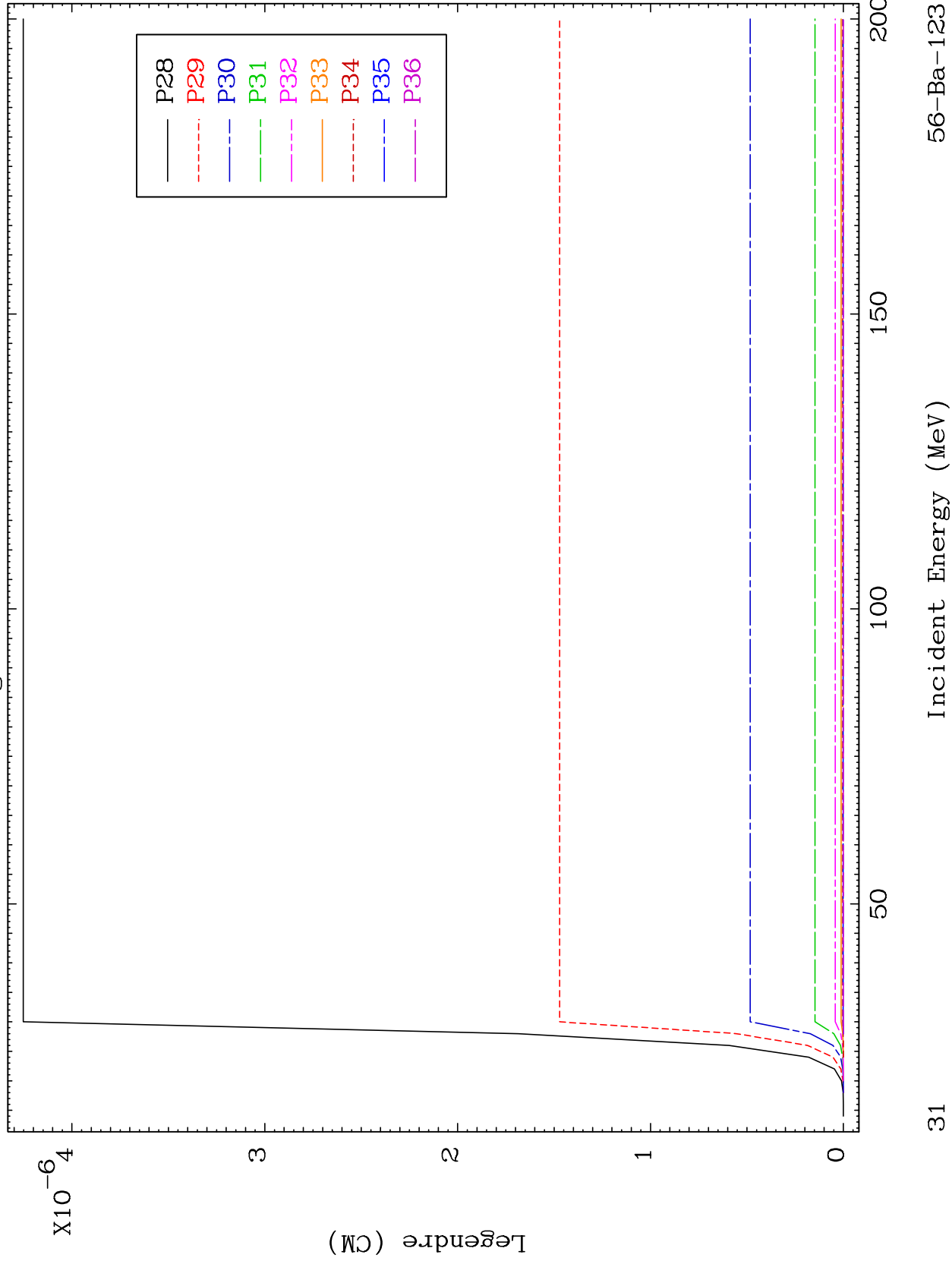
Incident Energy (MeV)

56-Ba-123

MAT 5604

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

56-Ba-123

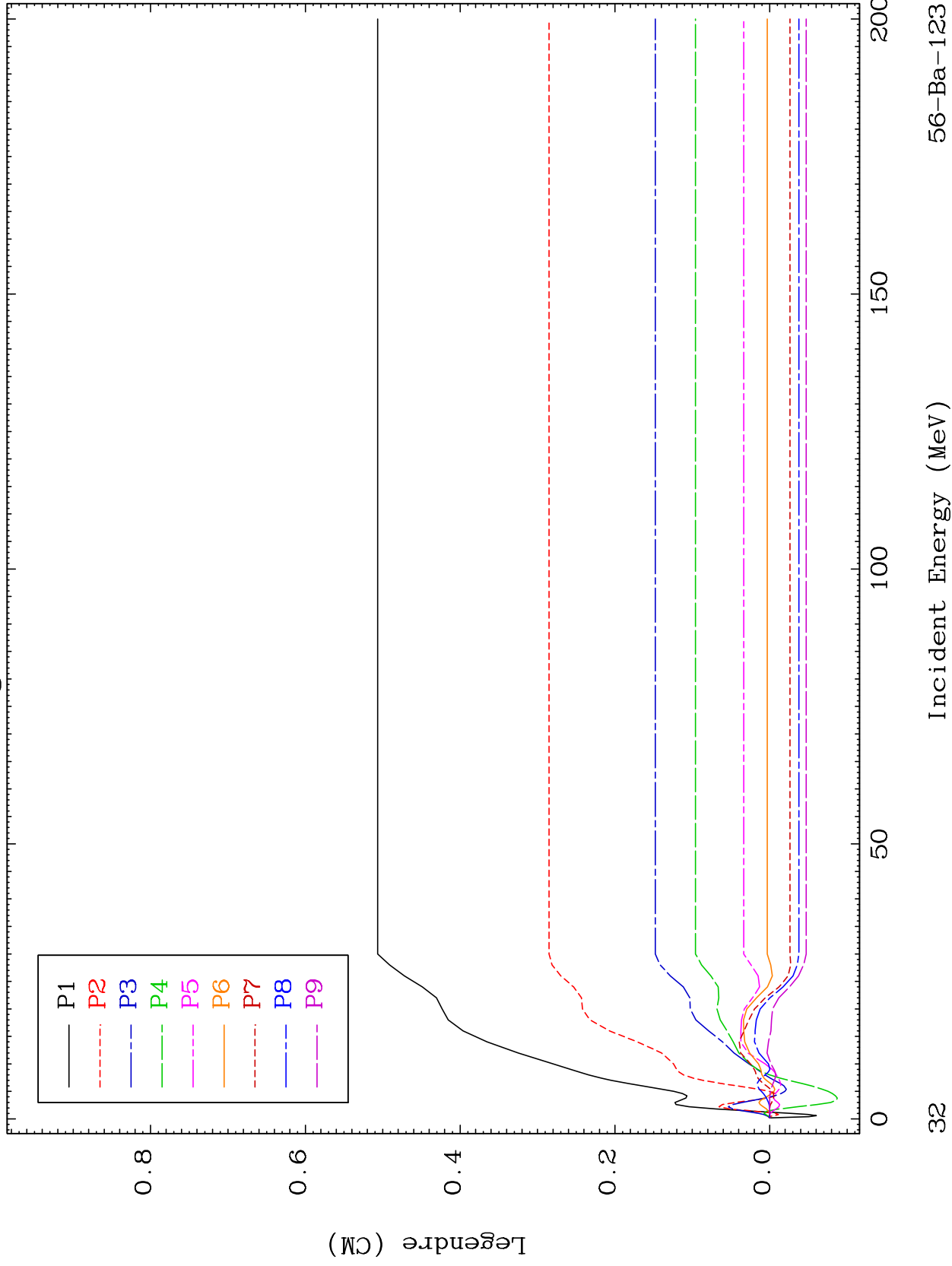




MAT 5604

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

56-Ba-123



56-Ba-123

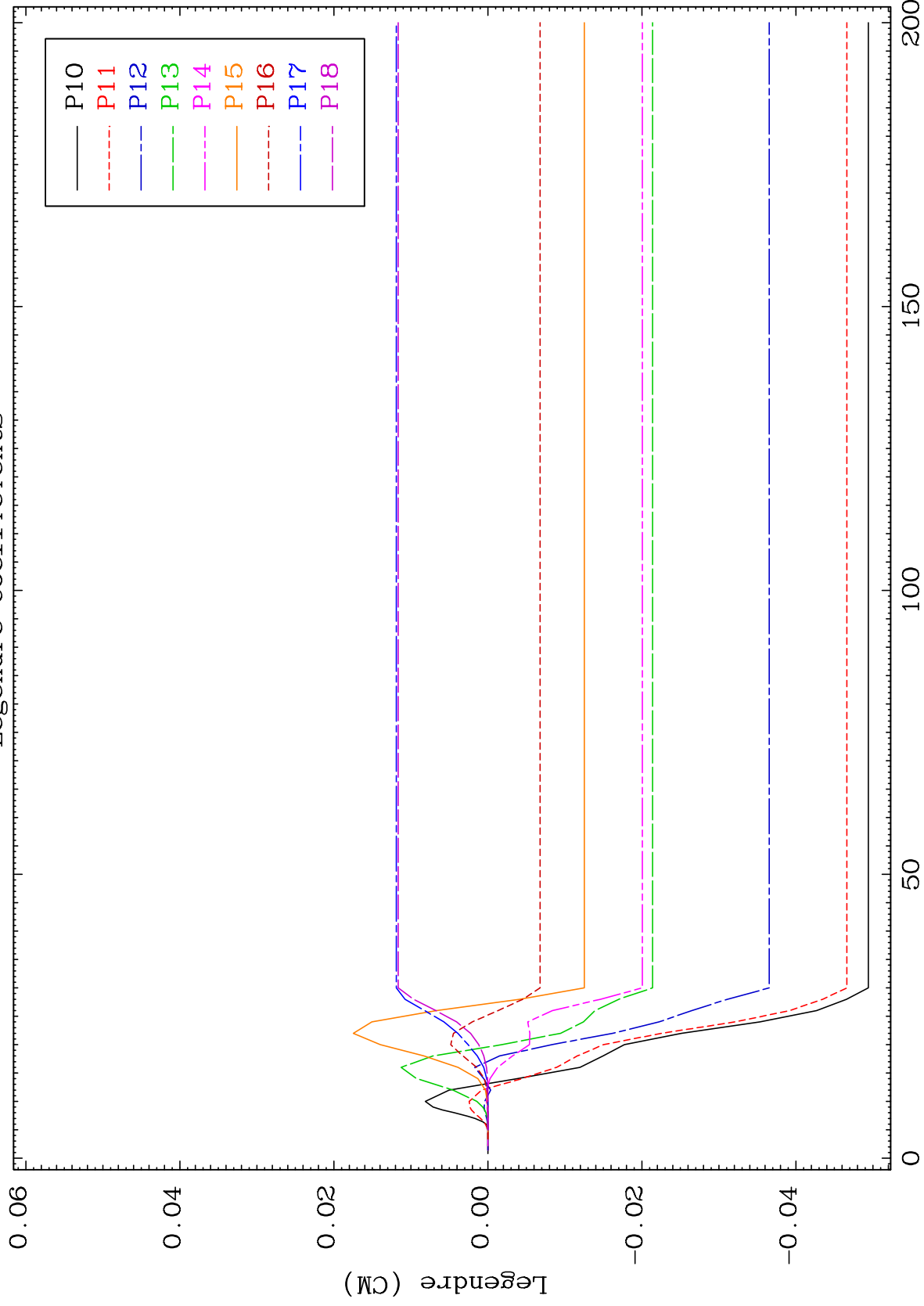
Incident Energy (MeV)

32

MAT 5604

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

56-Ba-123



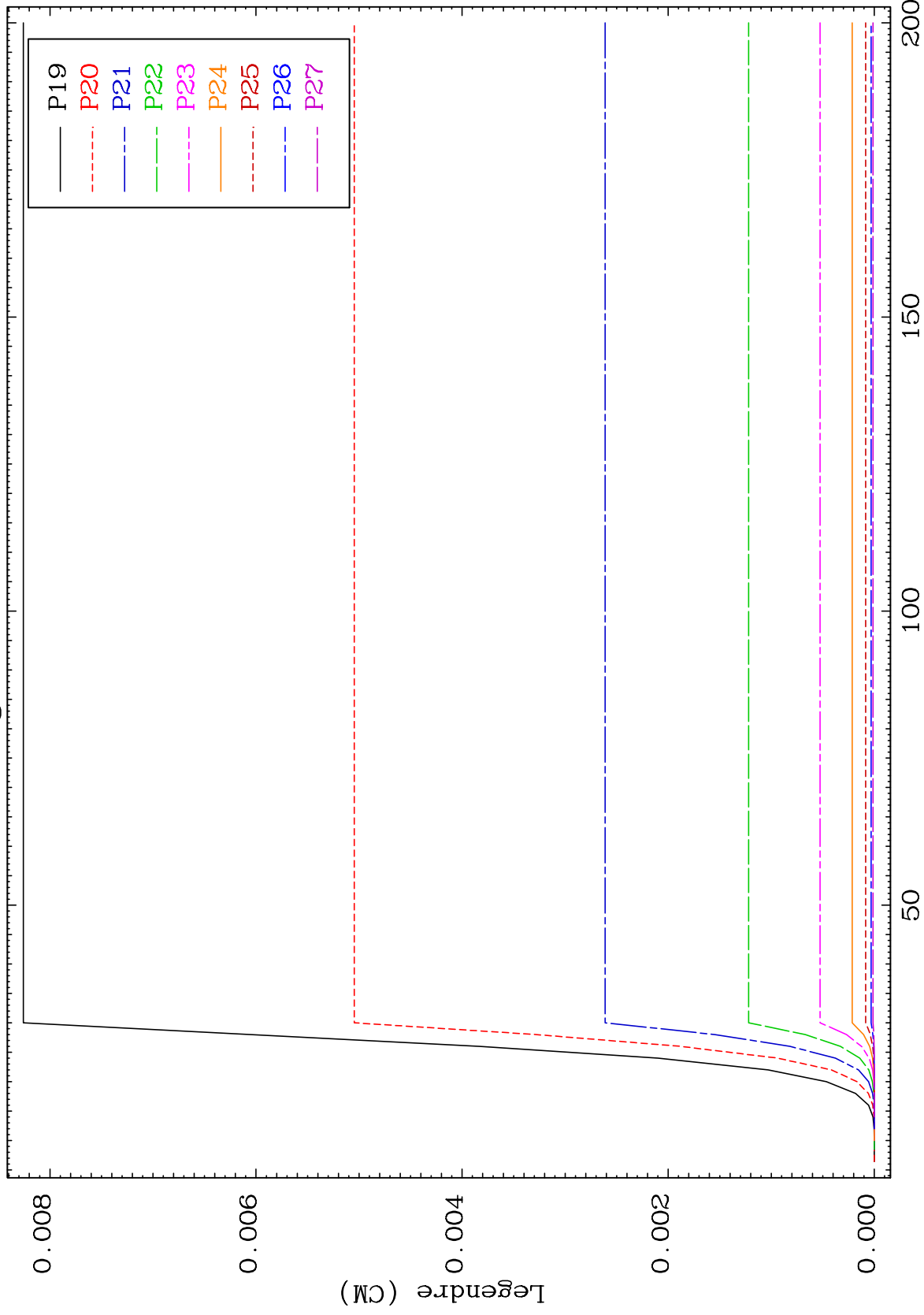
33

56-Ba-123

MAT 5604

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

56-Ba-123



34

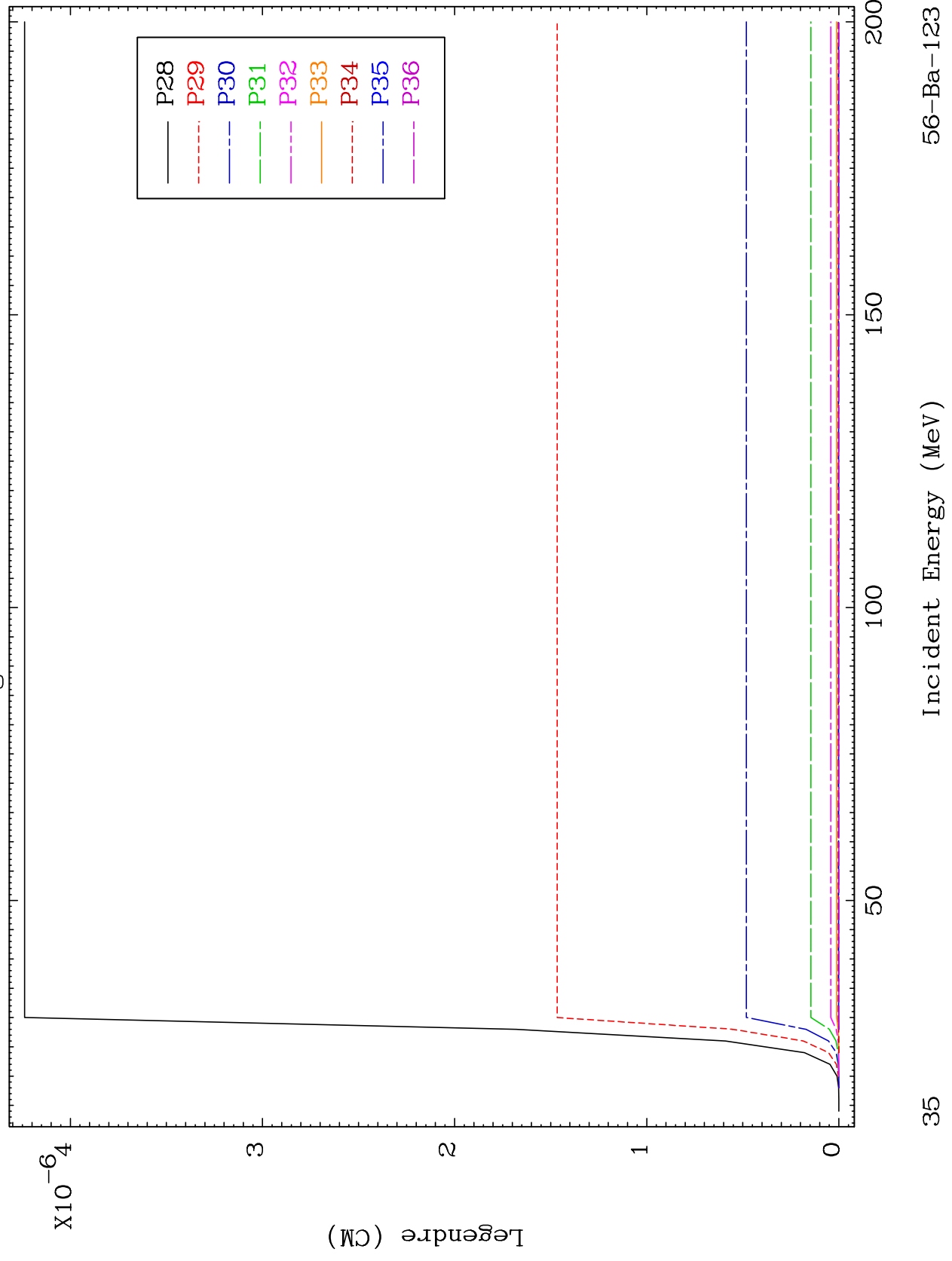
Incident Energy (MeV)

56-Ba-123

MAT 5604

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

56-Ba-123



35

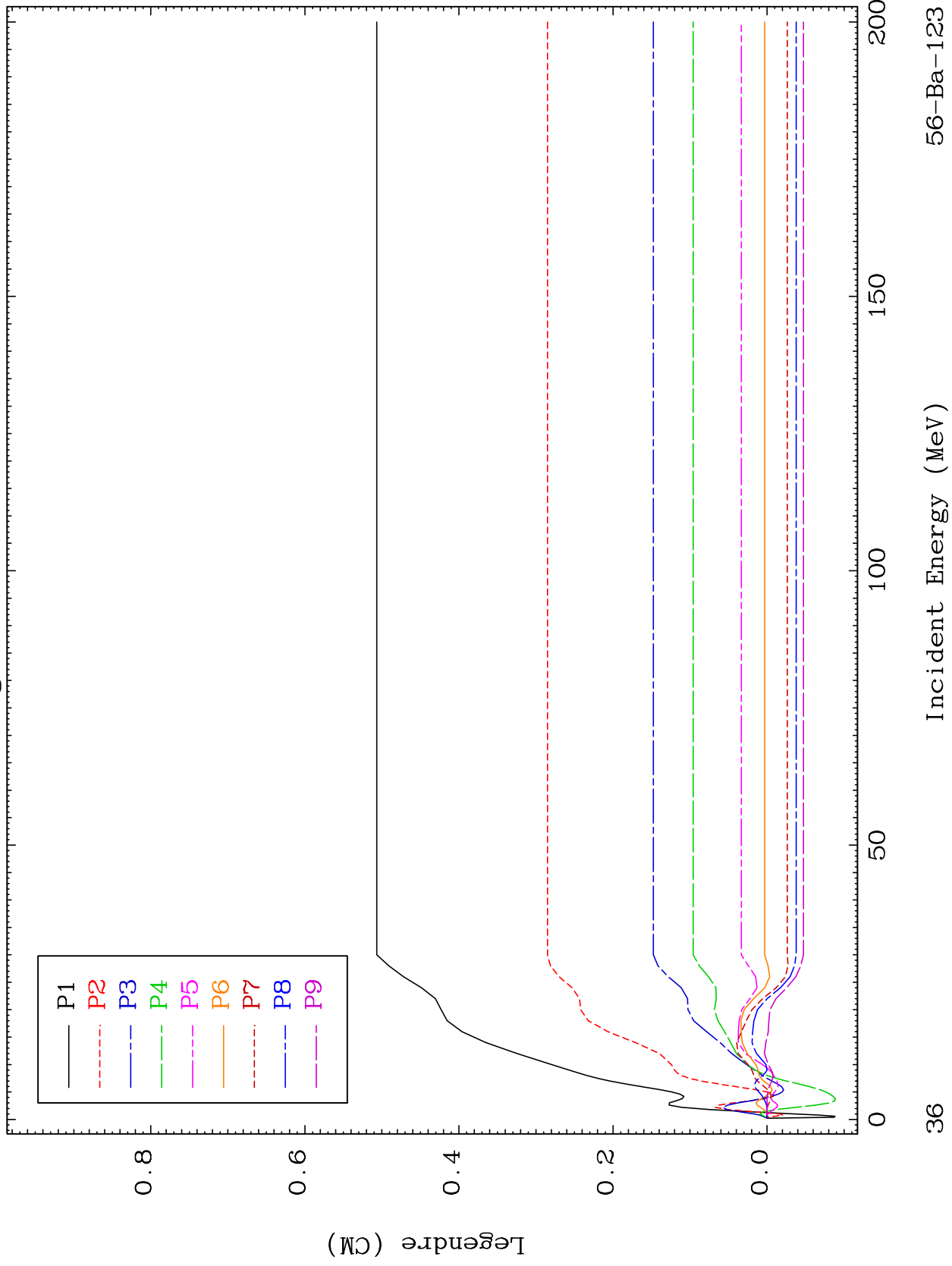
Incident Energy (MeV)

56-Ba-123

MAT 5604

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

56-Ba-123



36

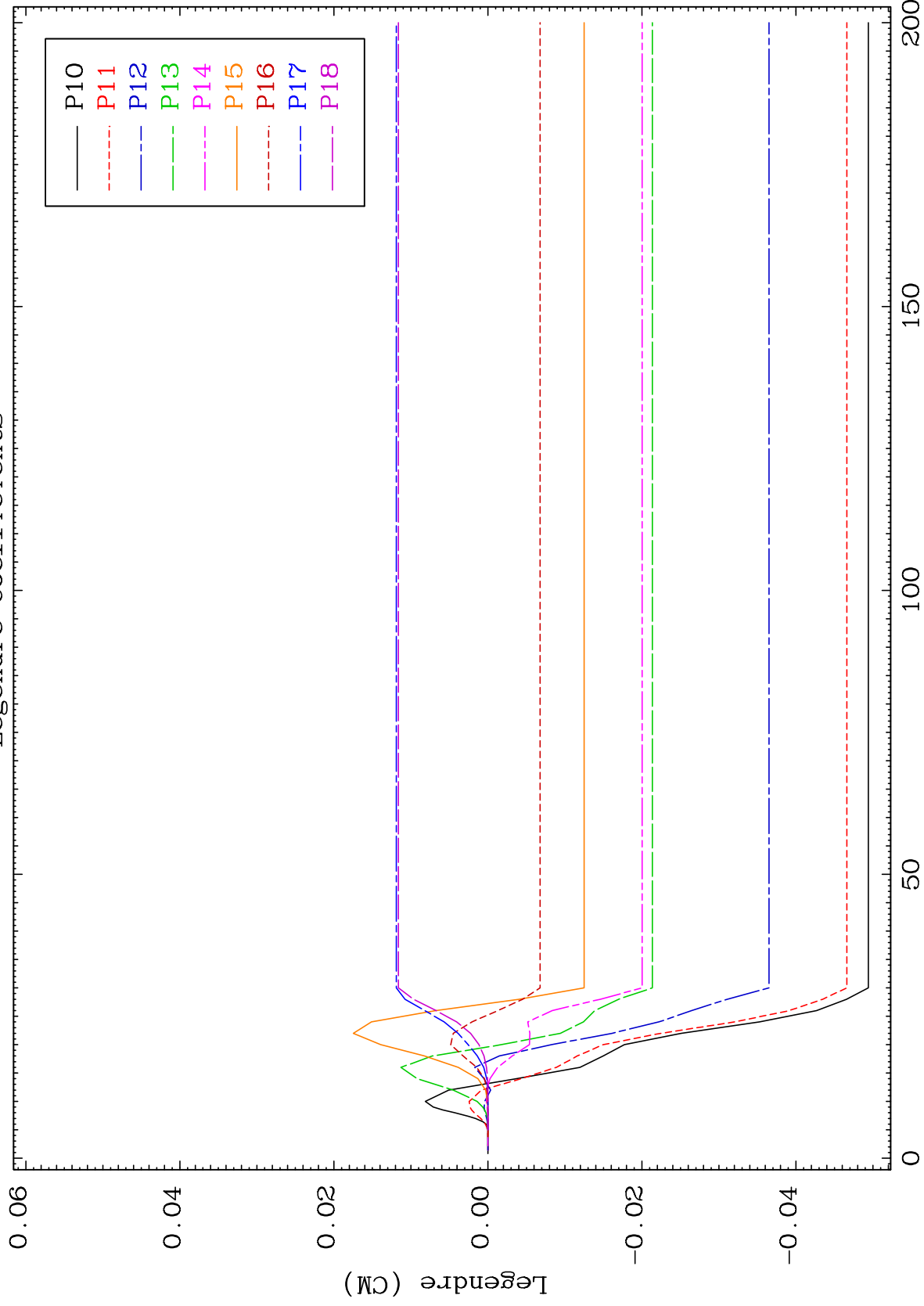
Incident Energy (MeV)

56-Ba-123

MAT 5604

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

56-Ba-123



37

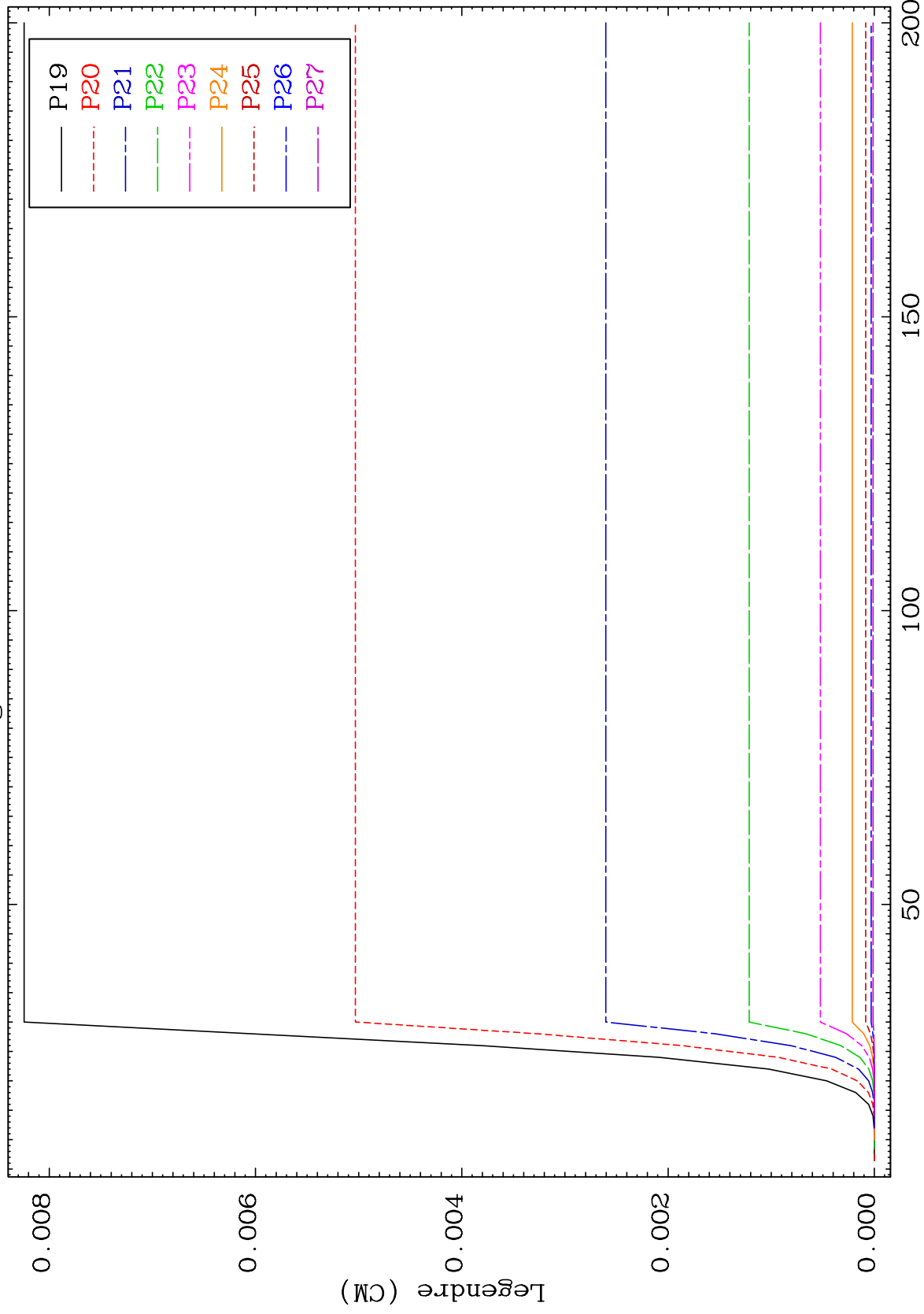
Incident Energy (MeV)

56-Ba-123

MAT 5604

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

56-Ba-123



38

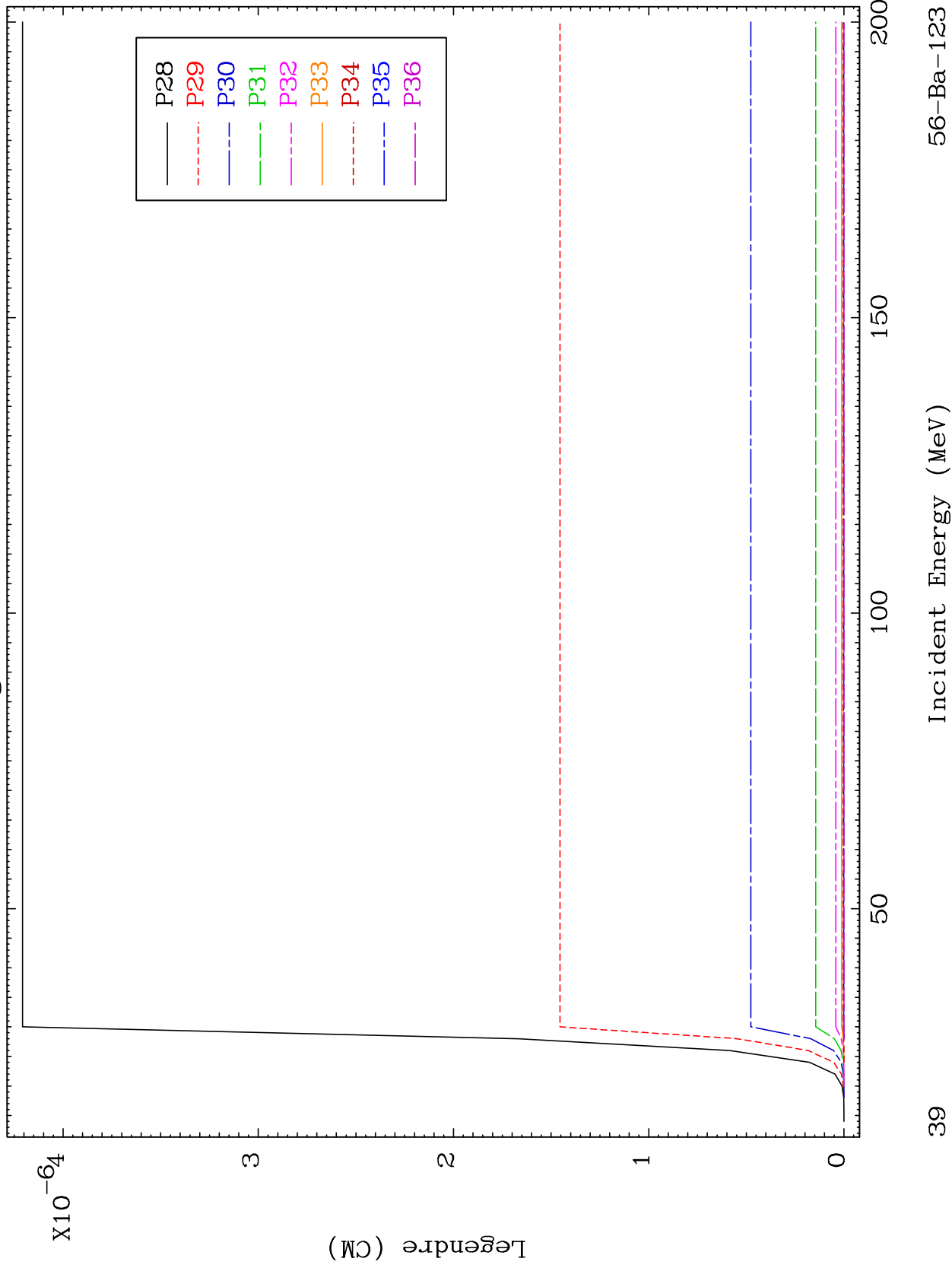
Incident Energy (MeV)

56-Ba-123

MAT 5604

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

56-Ba-123



39

Incident Energy (MeV)

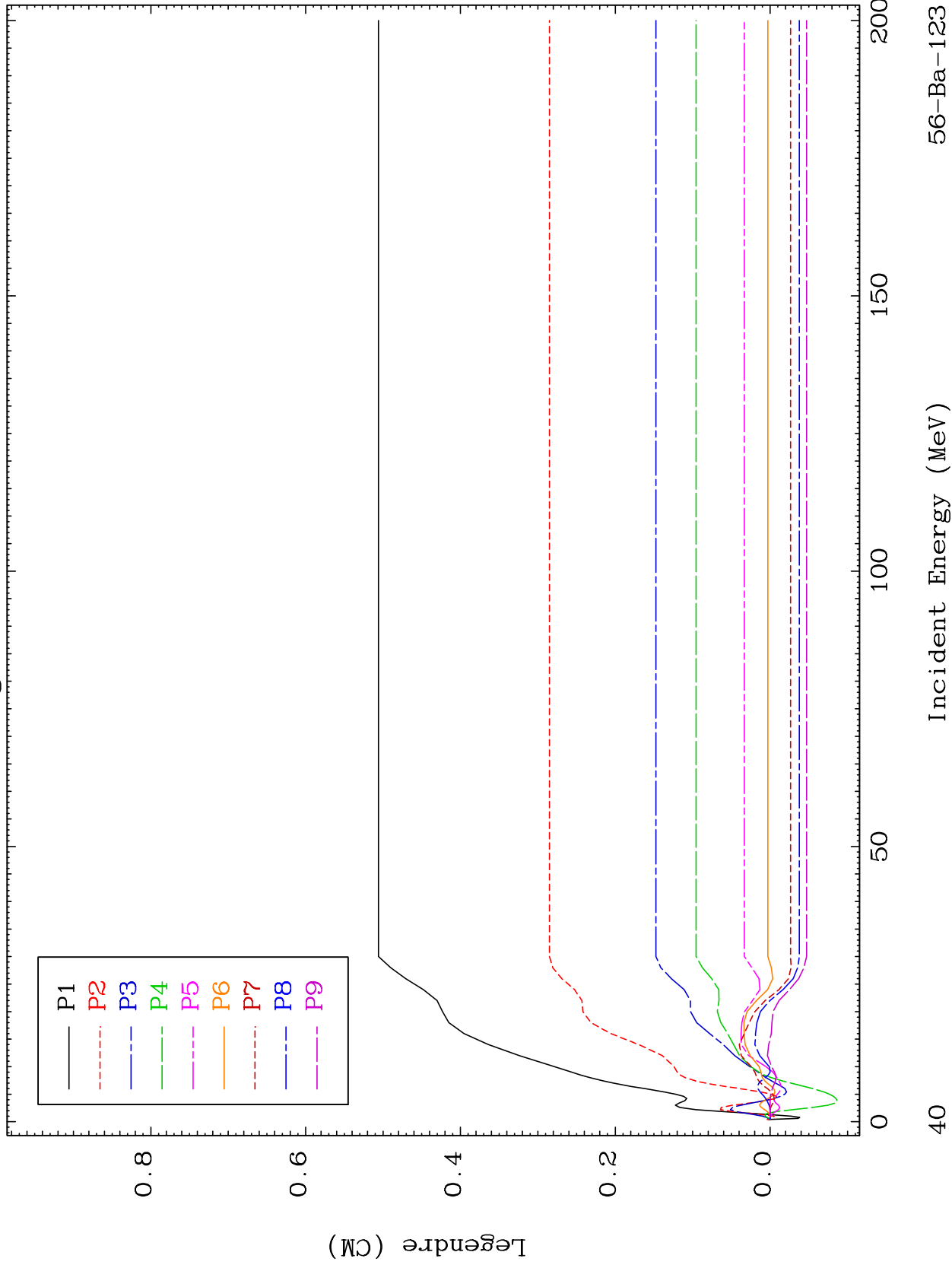
56-Ba-123



MAT 5604

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

56-Ba-123



56-Ba-123

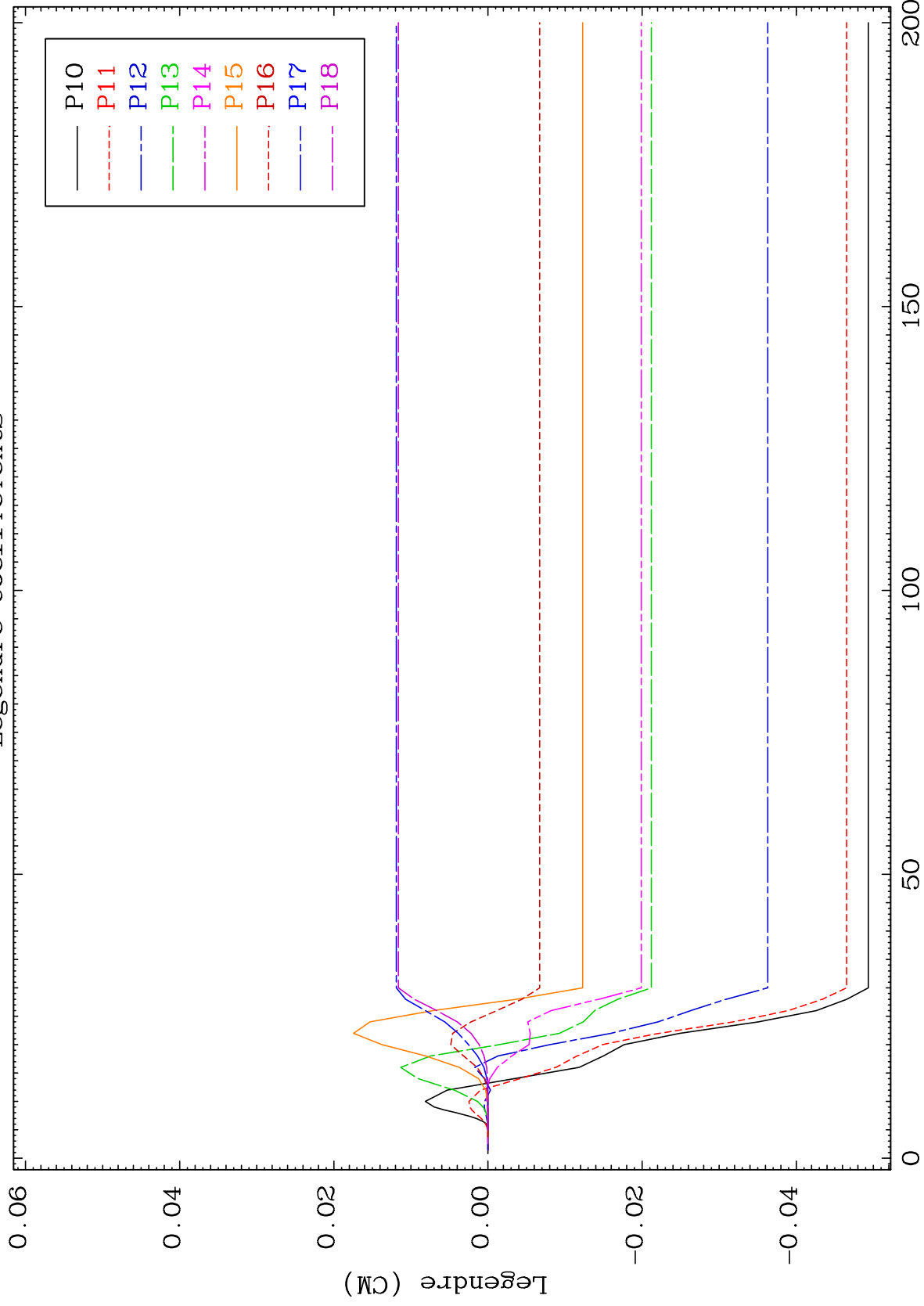
Incident Energy (MeV)

40

MAT 5604

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

56-Ba-123



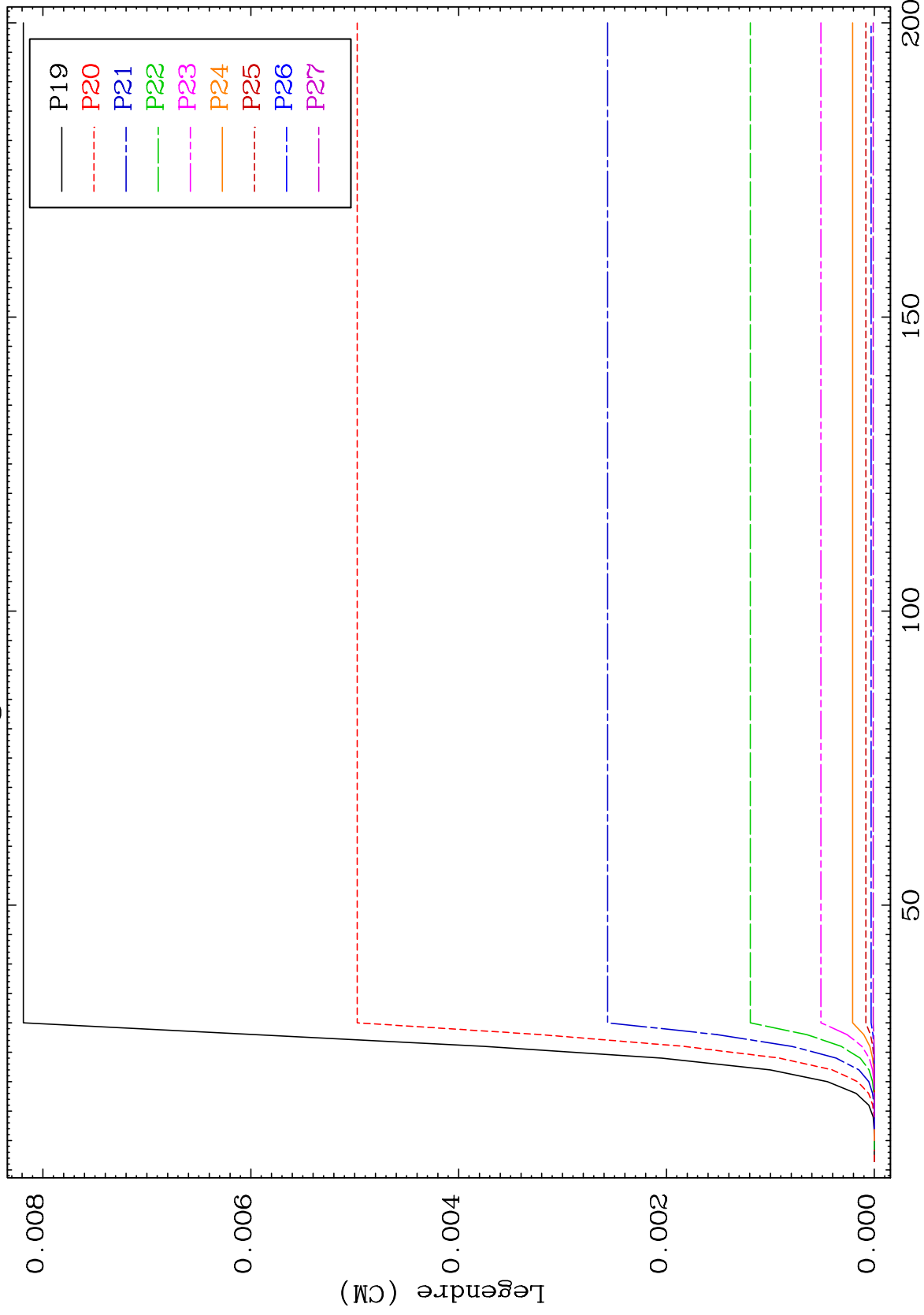
41

56-Ba-123

MAT 5604

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

56-Ba-123



42

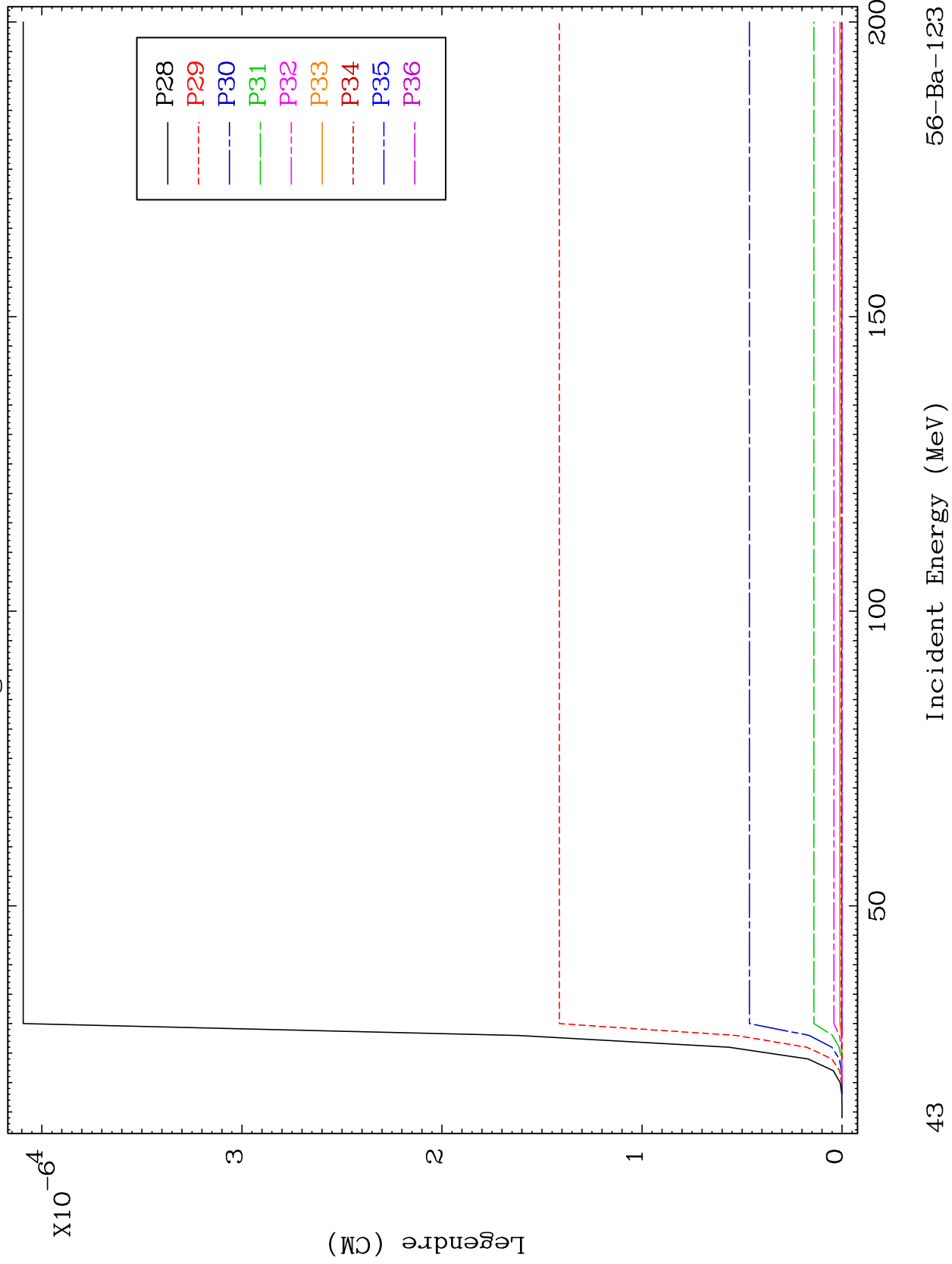
Incident Energy (MeV)

56-Ba-123

MAT 5604

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

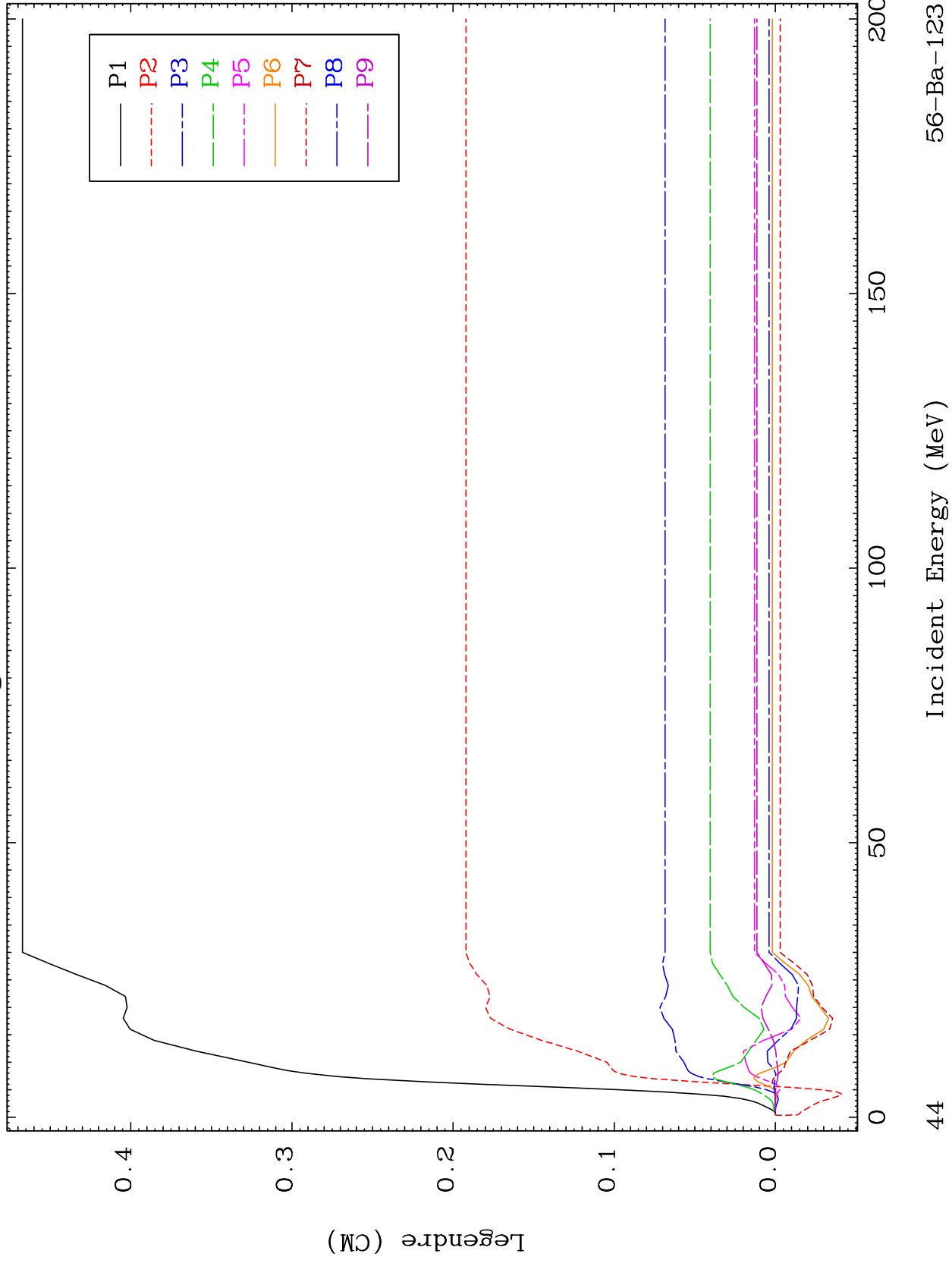
56-Ba-123



MAT 5604

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

56-Ba-123



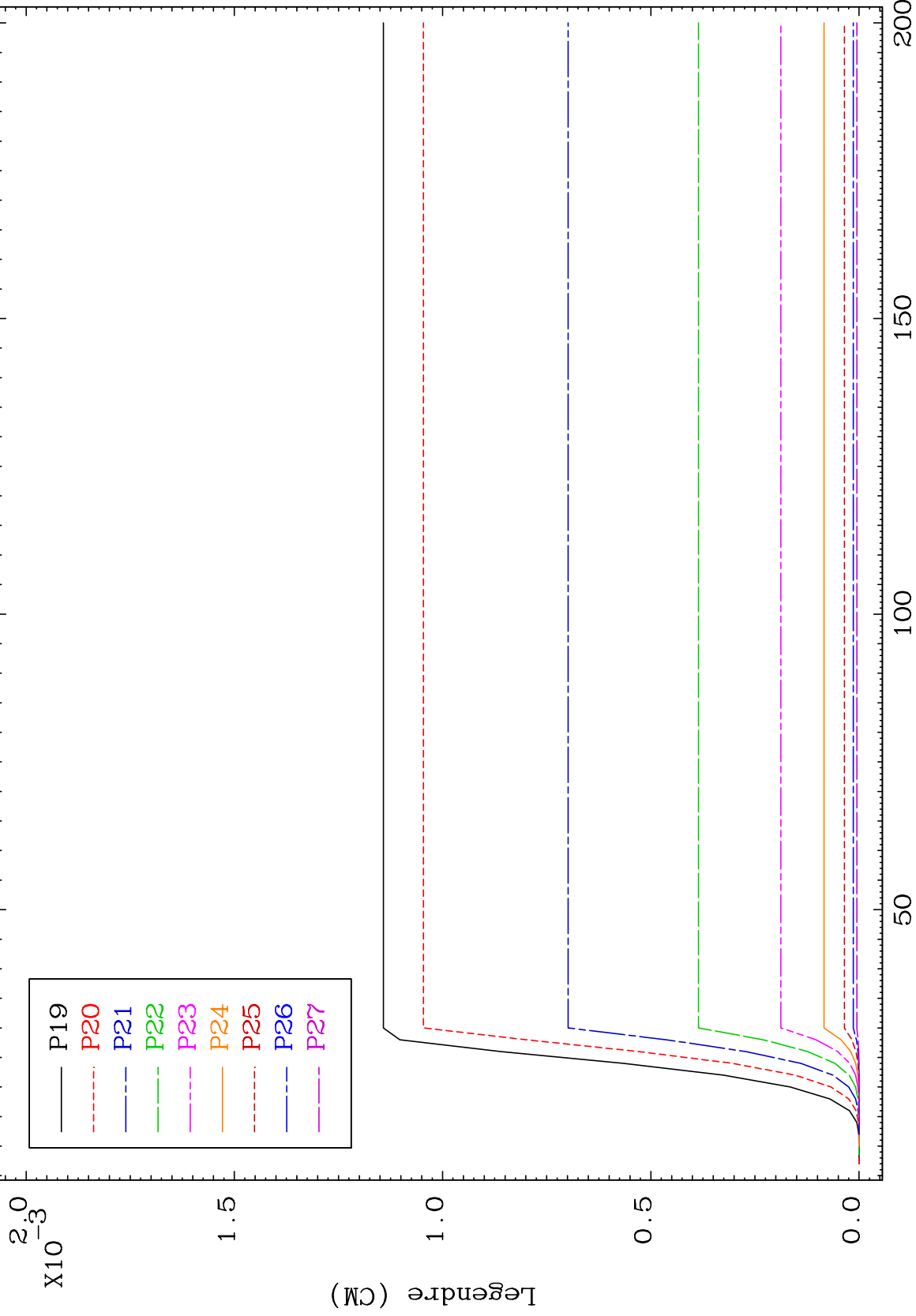
44



MAT 5604

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

56-Ba-123



46

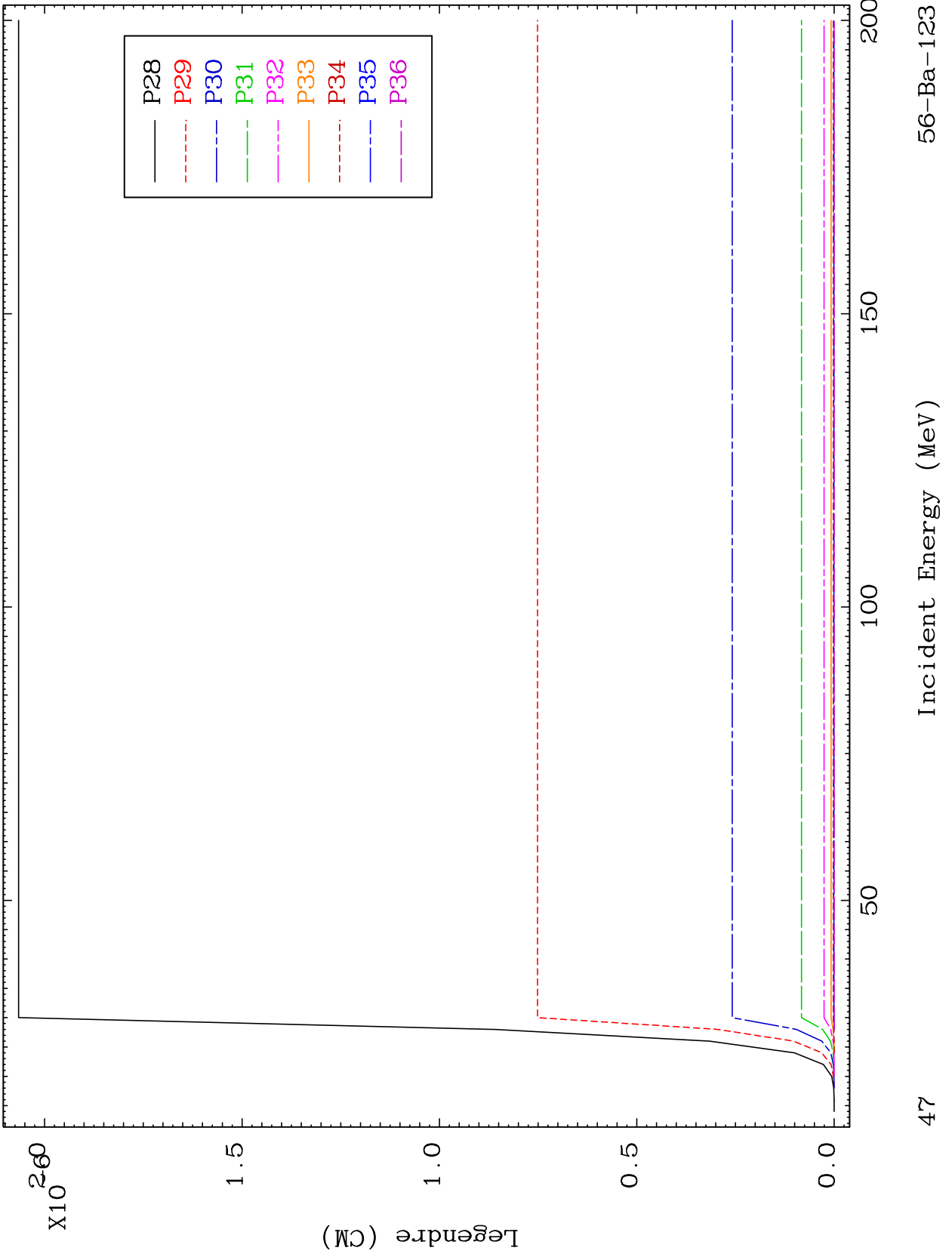
Incident Energy (MeV)

56-Ba-123

MAT 5604

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

56-Ba-123



47

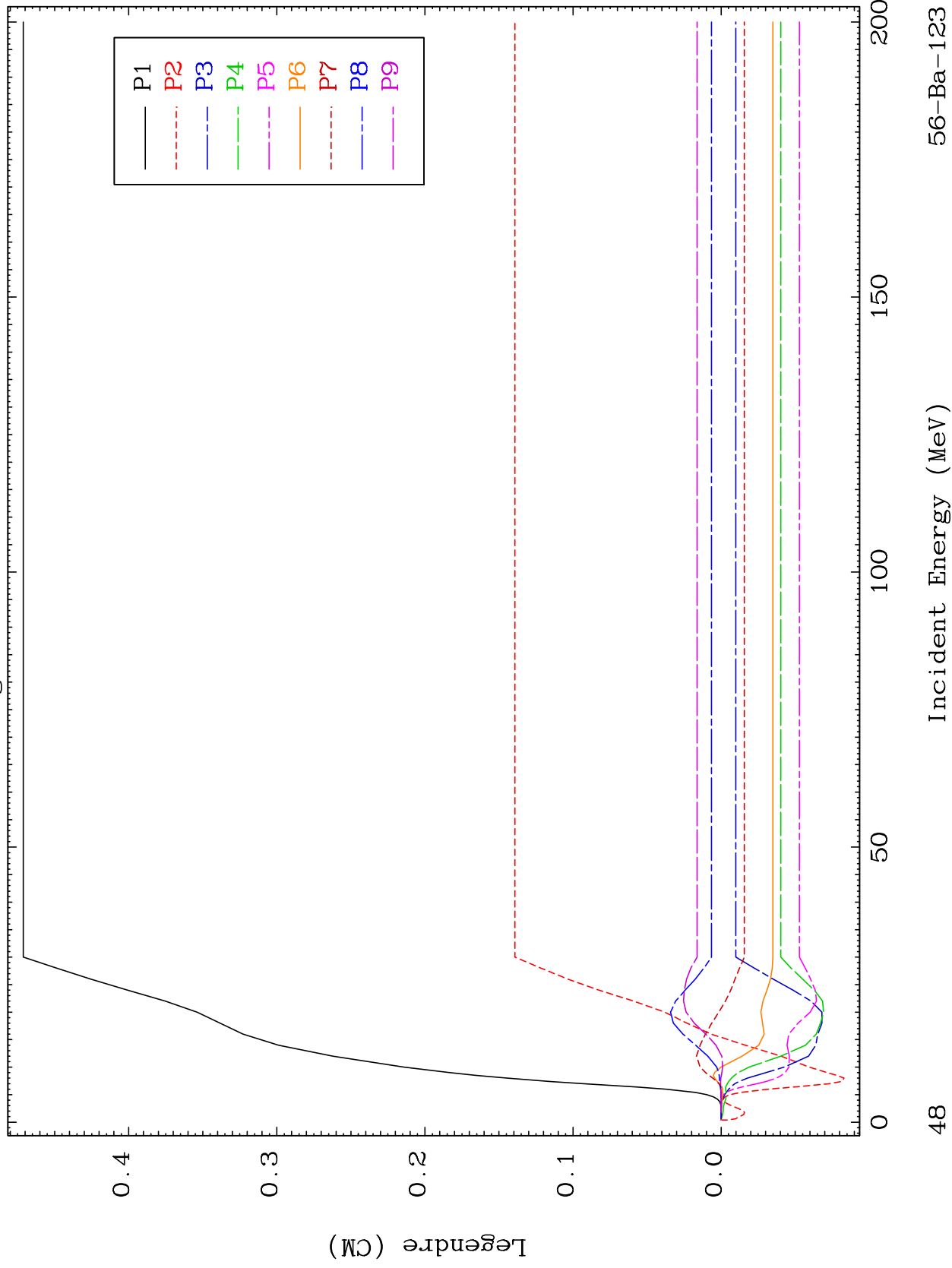
56-Ba-123



MAT 5604

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

56-Ba-123



56-Ba-123

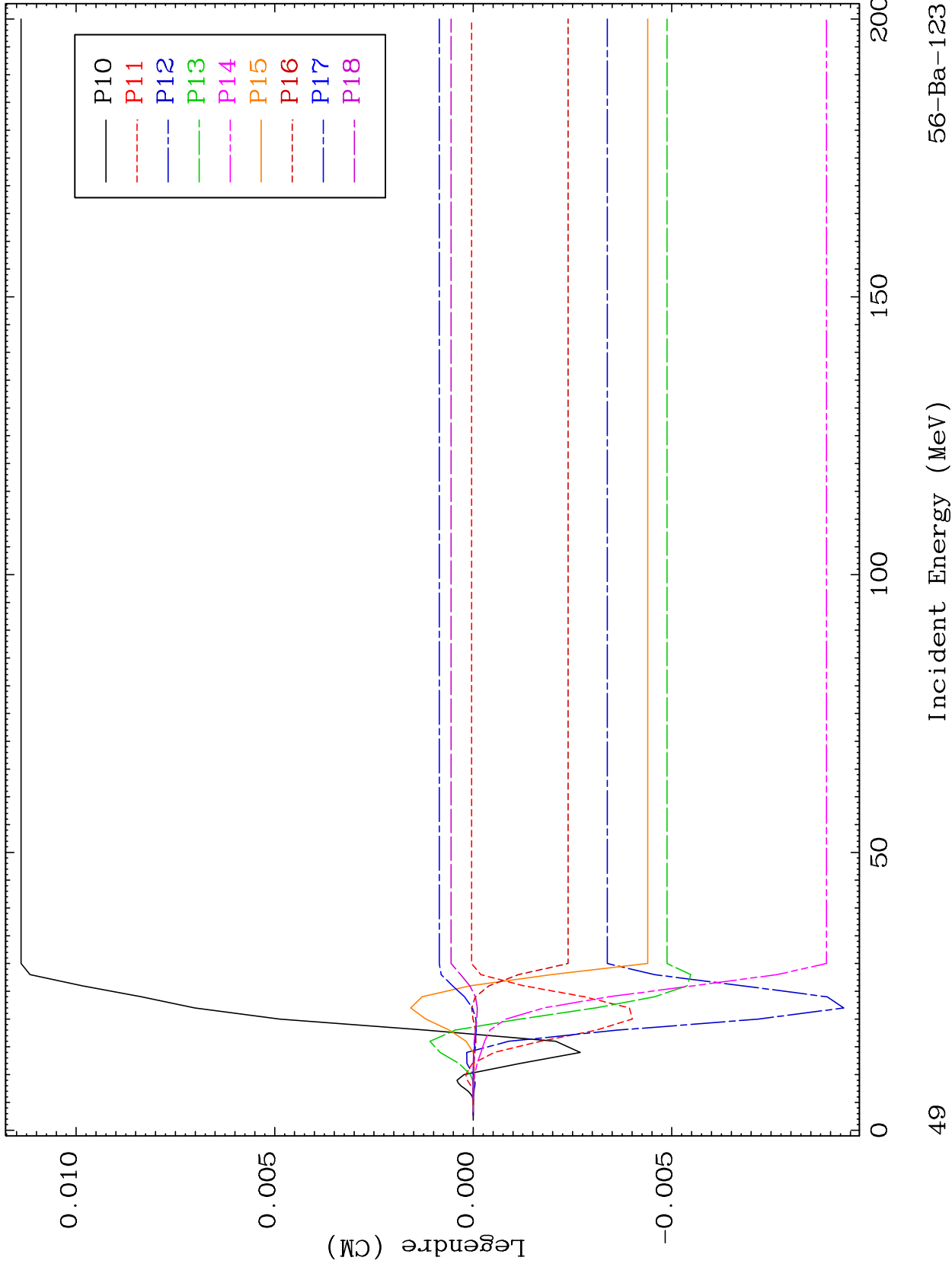
Incident Energy (MeV)

48

MAT 5604

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

56-Ba-123



49

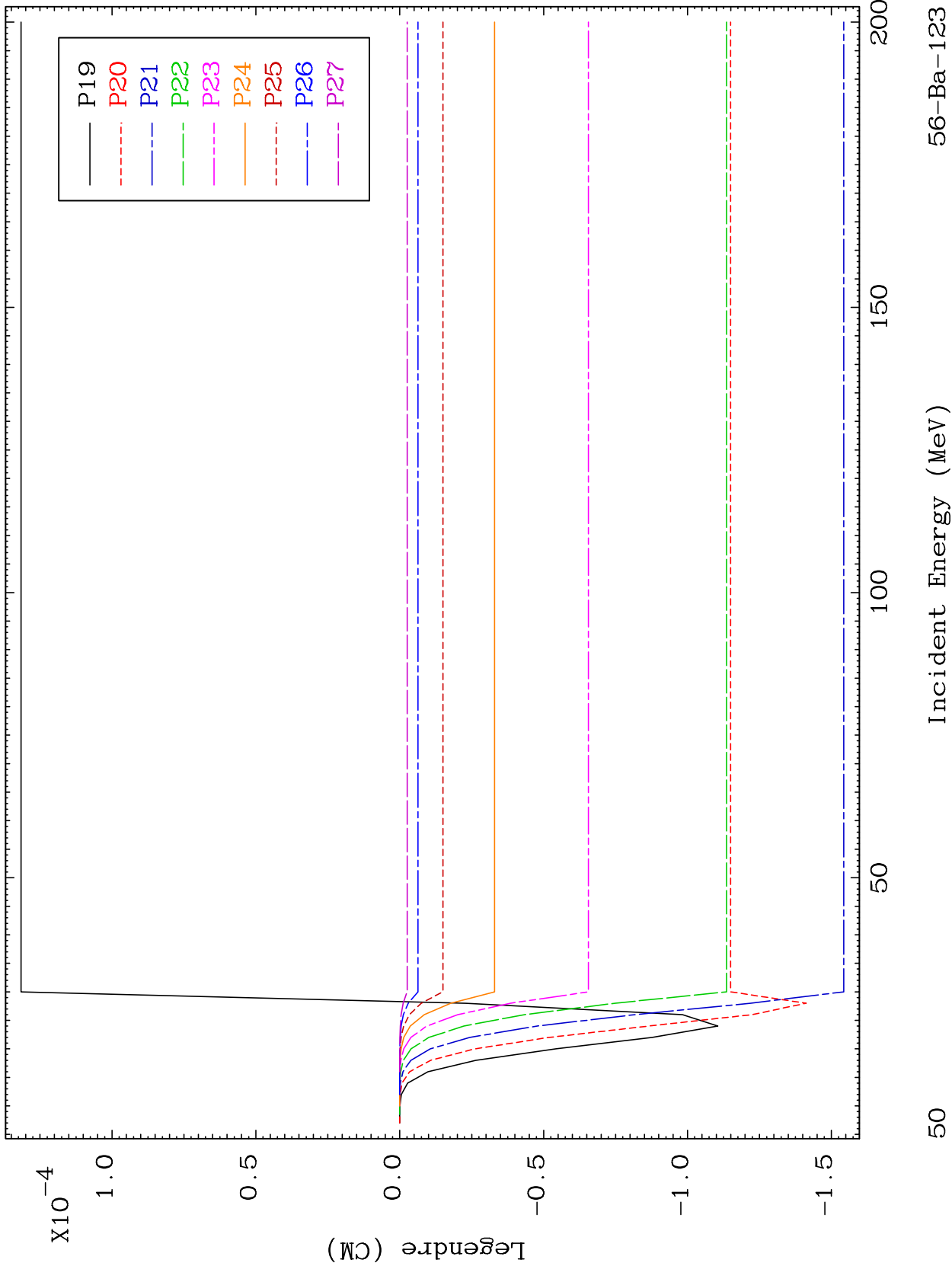
Incident Energy (MeV)

56-Ba-123

MAT 5604

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

56-Ba-123



50

Incident Energy (MeV)

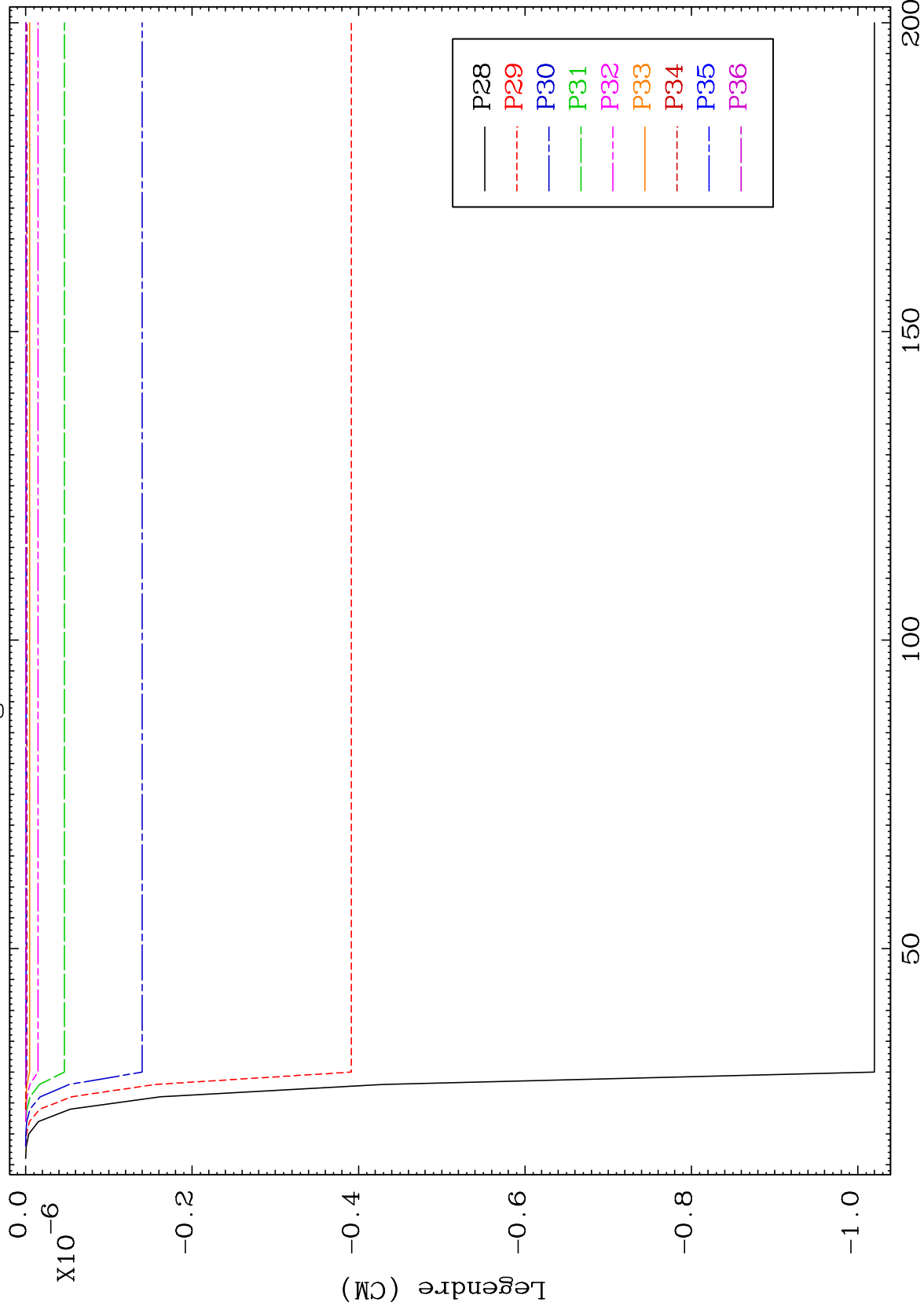
56-Ba-123

MAT 5604

MT= 58 (n,n') Level

56-Ba-123

Legendre Coefficients



51

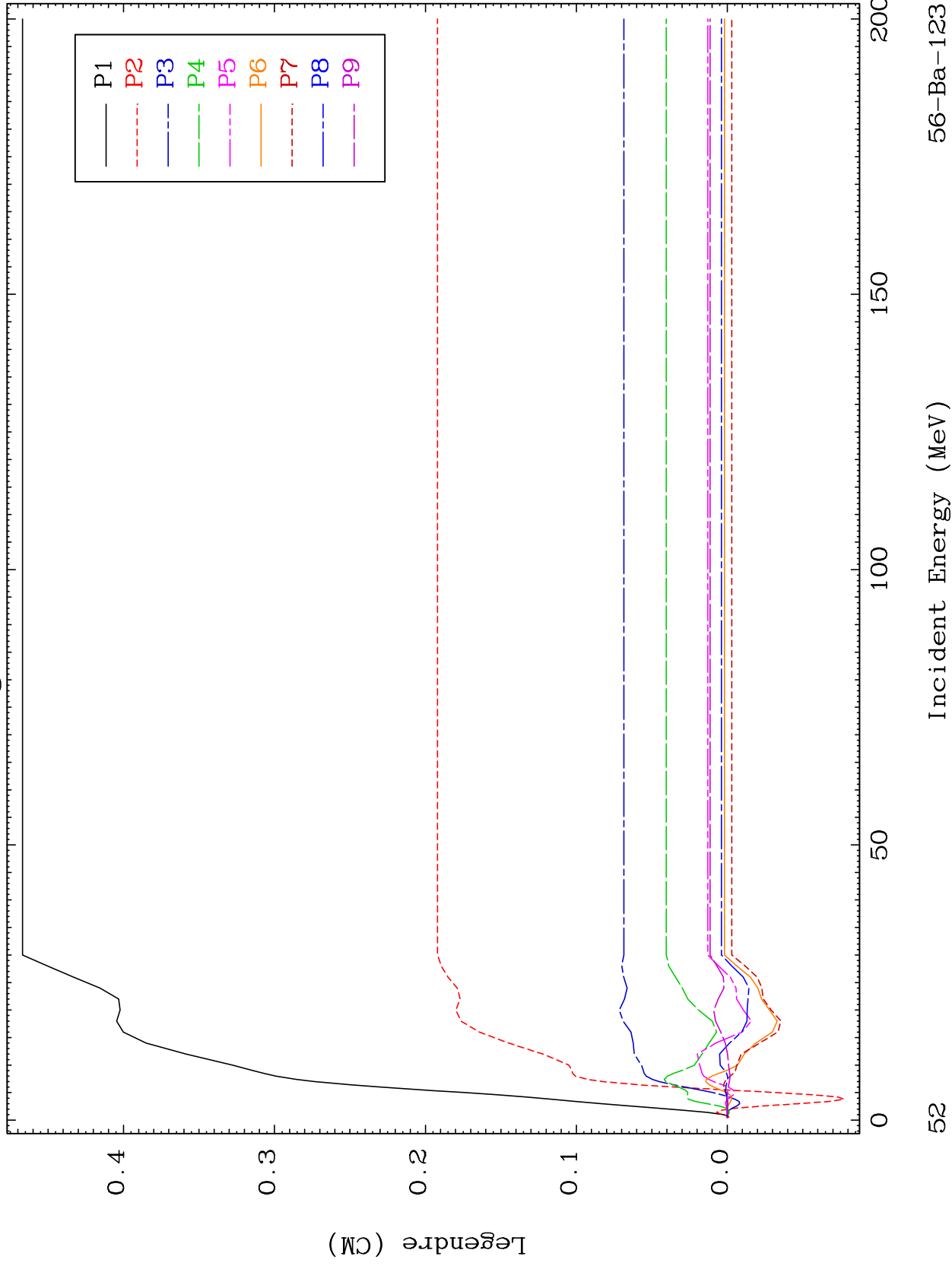
Incident Energy (MeV)

56-Ba-123

MAT 5604

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

56-Ba-123



56-Ba-123

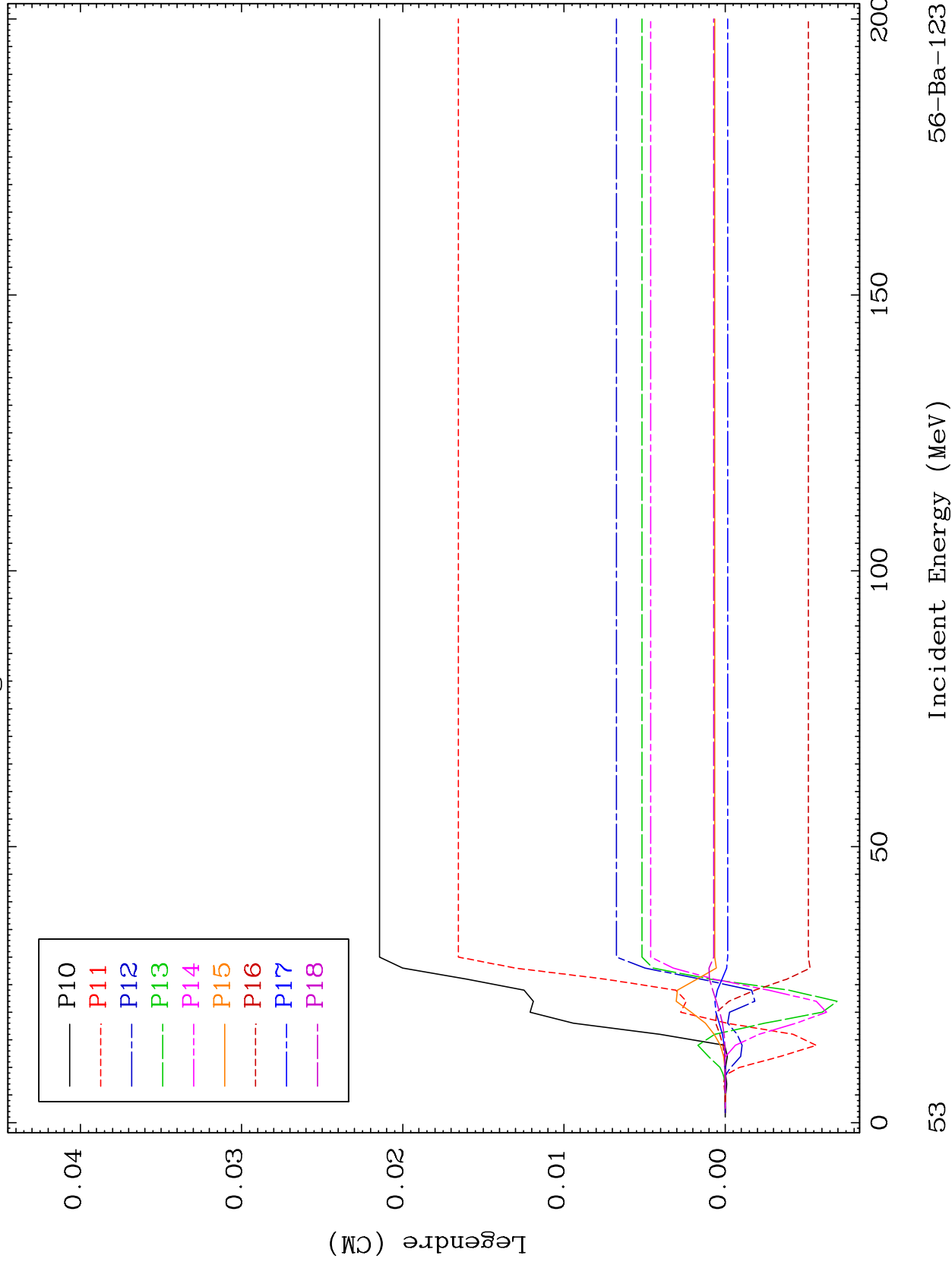
Incident Energy (MeV)

52

MAT 5604

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

56-Ba-123



56-Ba-123

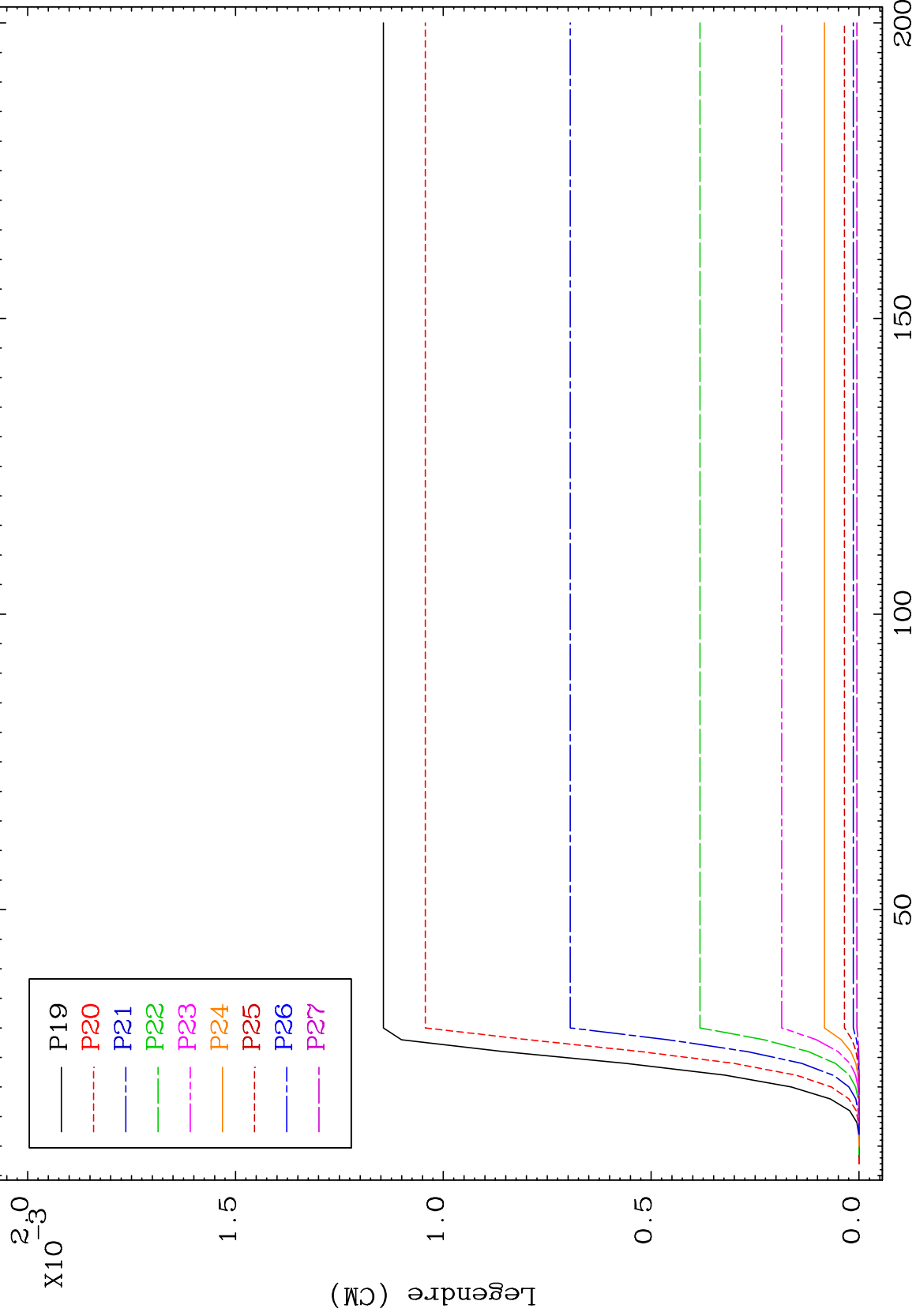
Incident Energy (MeV)

53

MAT 5604

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

56-Ba-123



54

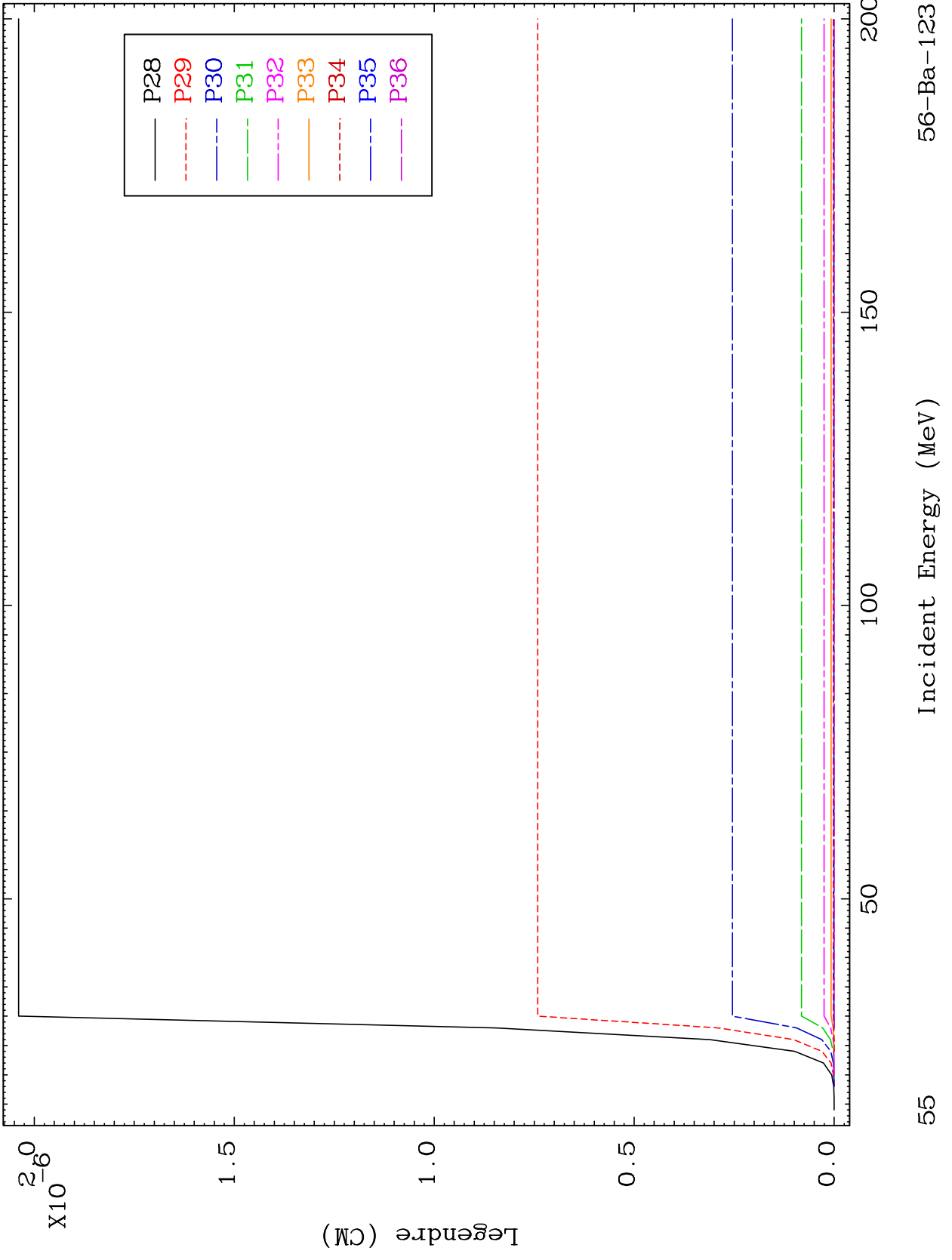
Incident Energy (MeV)

56-Ba-123

MAT 5604

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

56-Ba-123



55

Incident Energy (MeV)

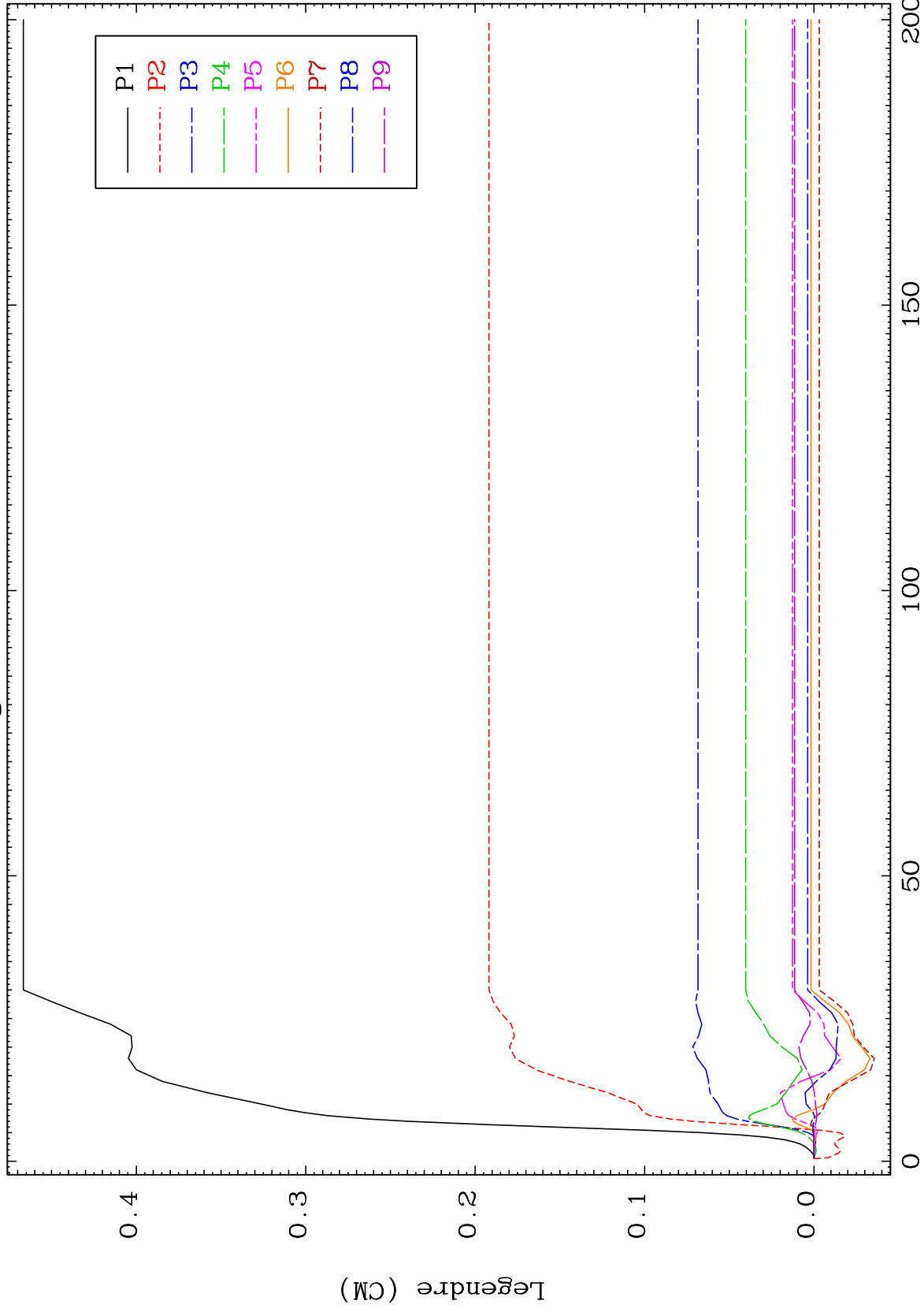
56-Ba-123



MAT 5604

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

56-Ba-123



56

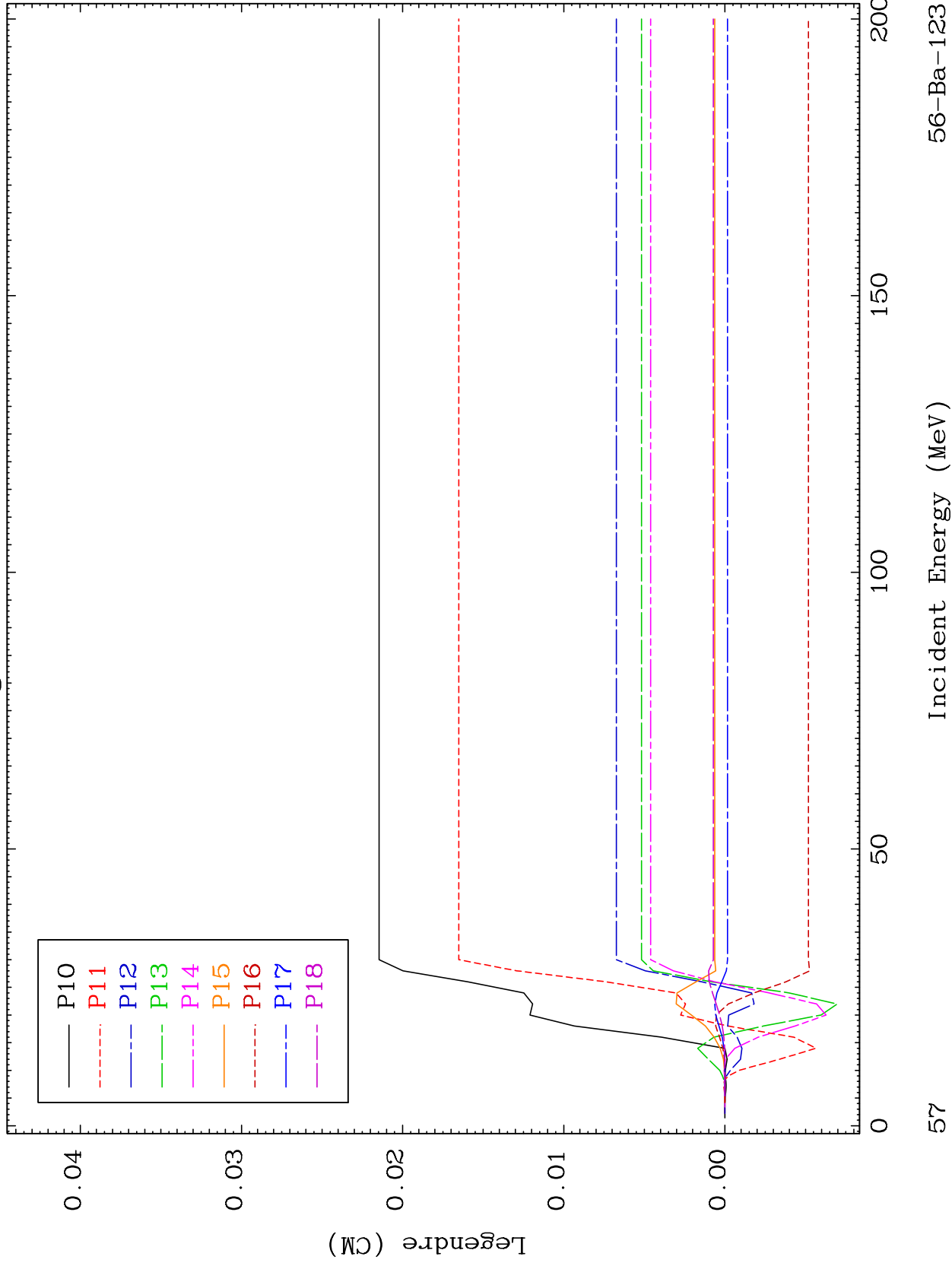
Incident Energy (MeV)

56-Ba-123

MAT 5604

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

56-Ba-123



57

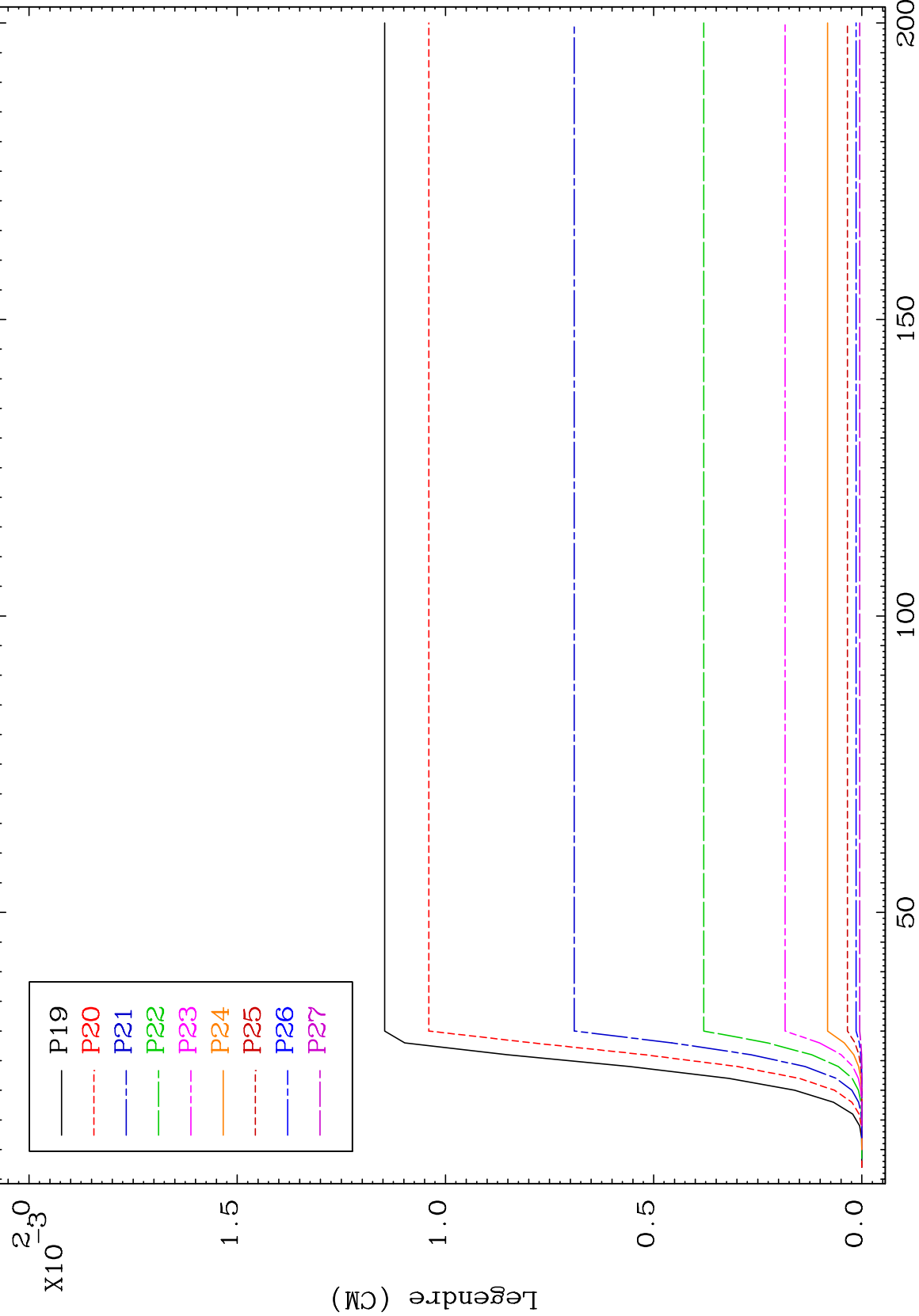
Incident Energy (MeV)

56-Ba-123

MAT 5604

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

56-Ba-123



58

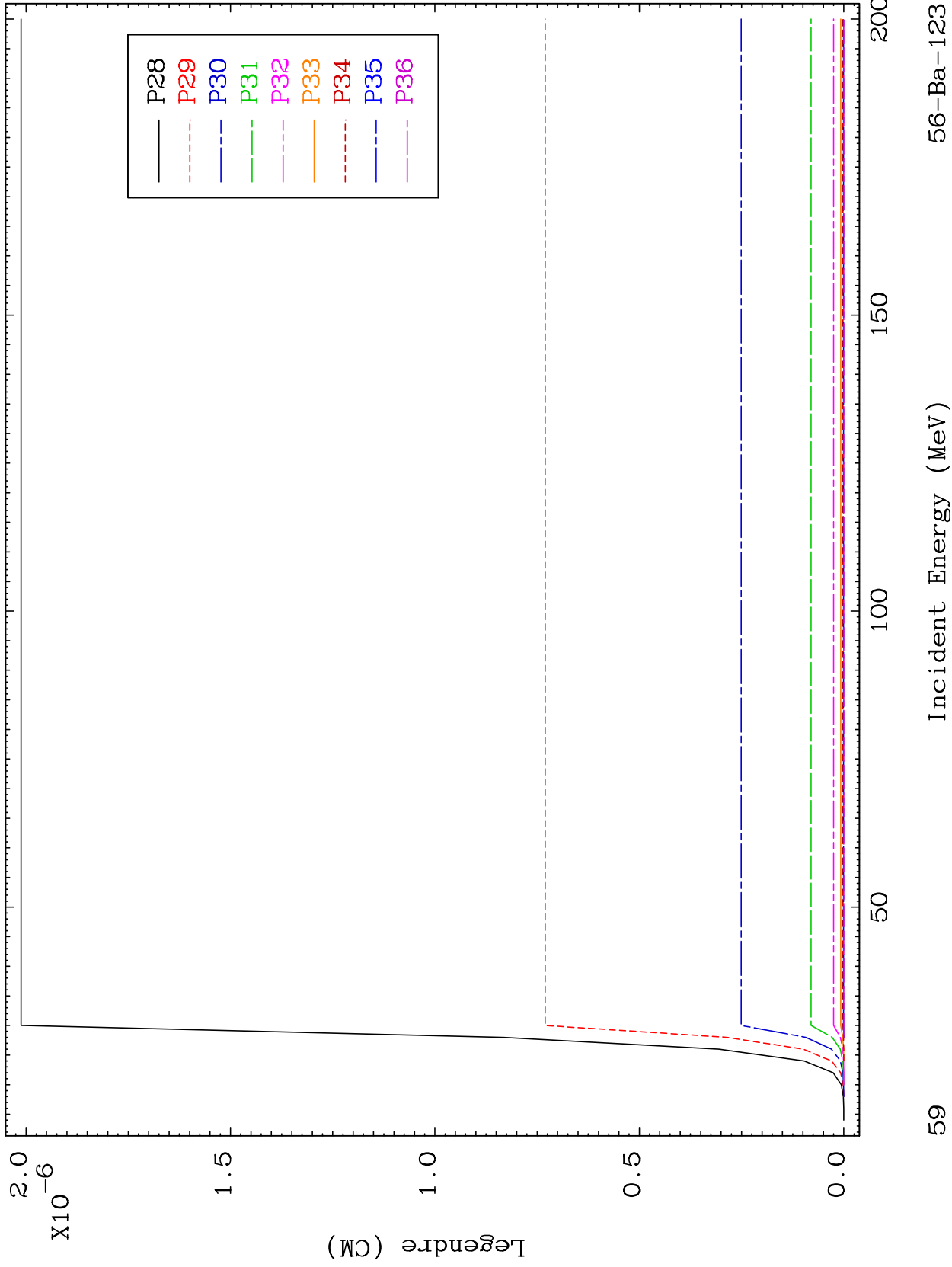
Incident Energy (MeV)

56-Ba-123

MAT 5604

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

56-Ba-123



59

Incident Energy (MeV)

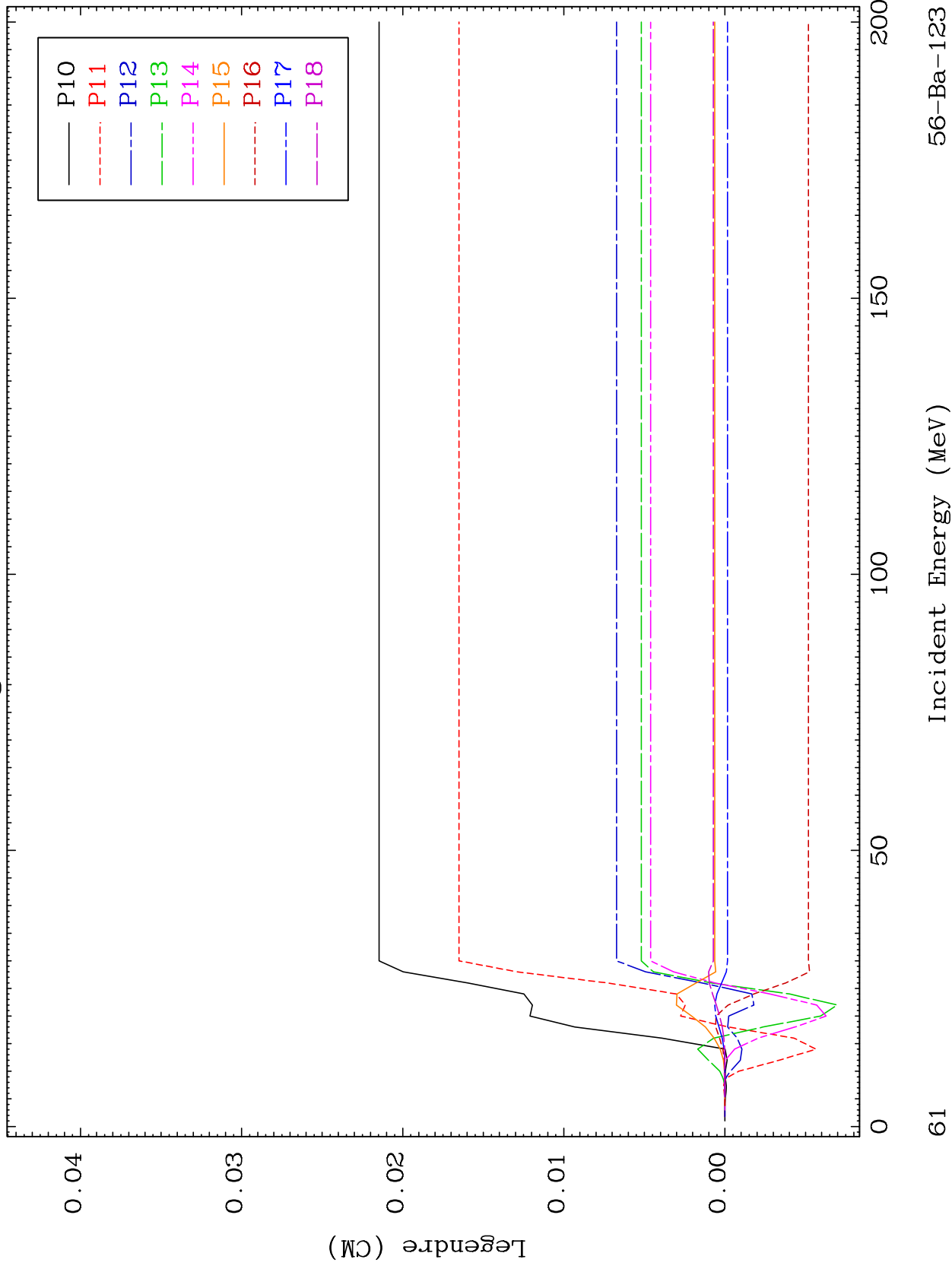
56-Ba-123



MAT 5604

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

56-Ba-123



56-Ba-123

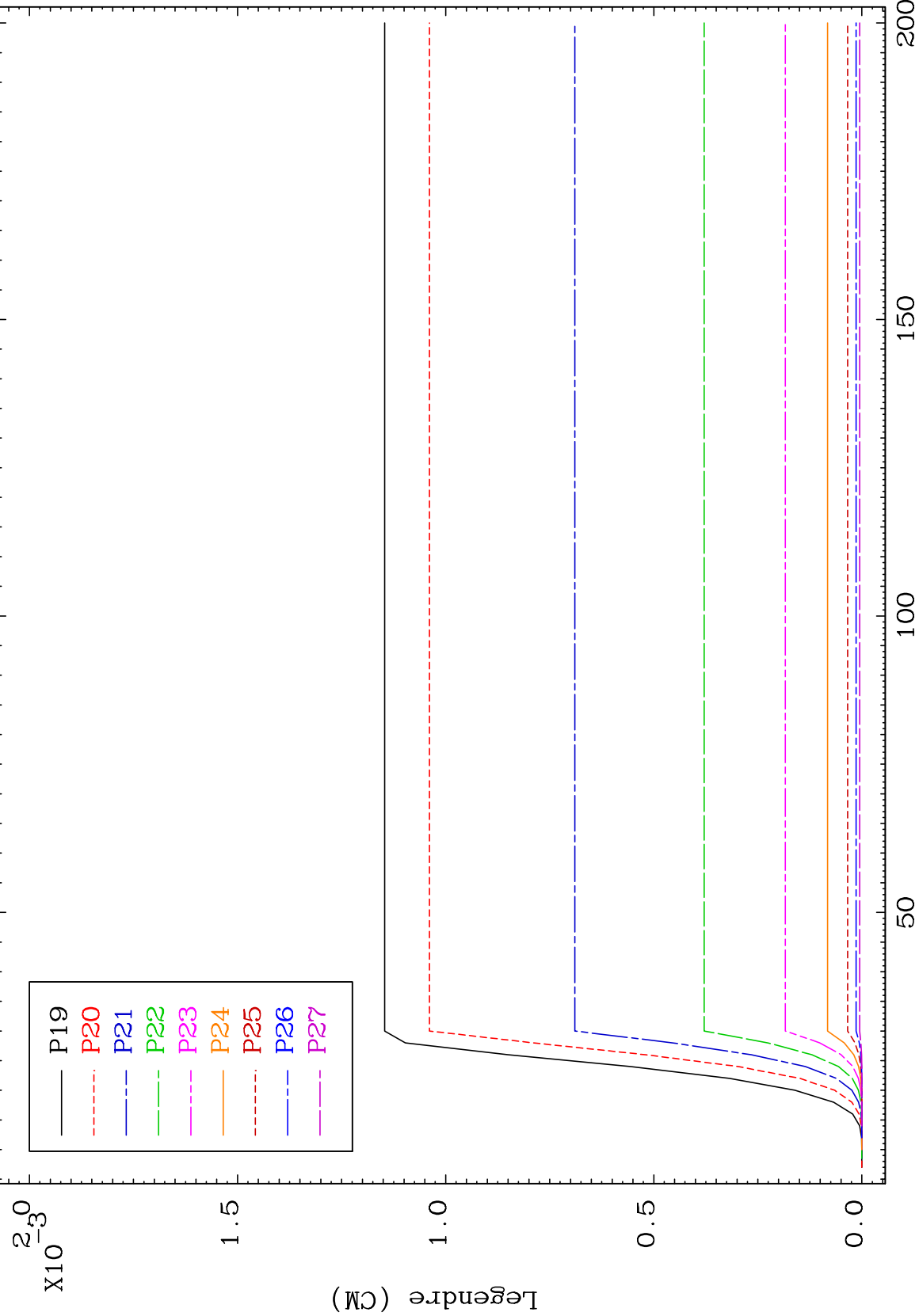
Incident Energy (MeV)

61

MAT 5604

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

56-Ba-123



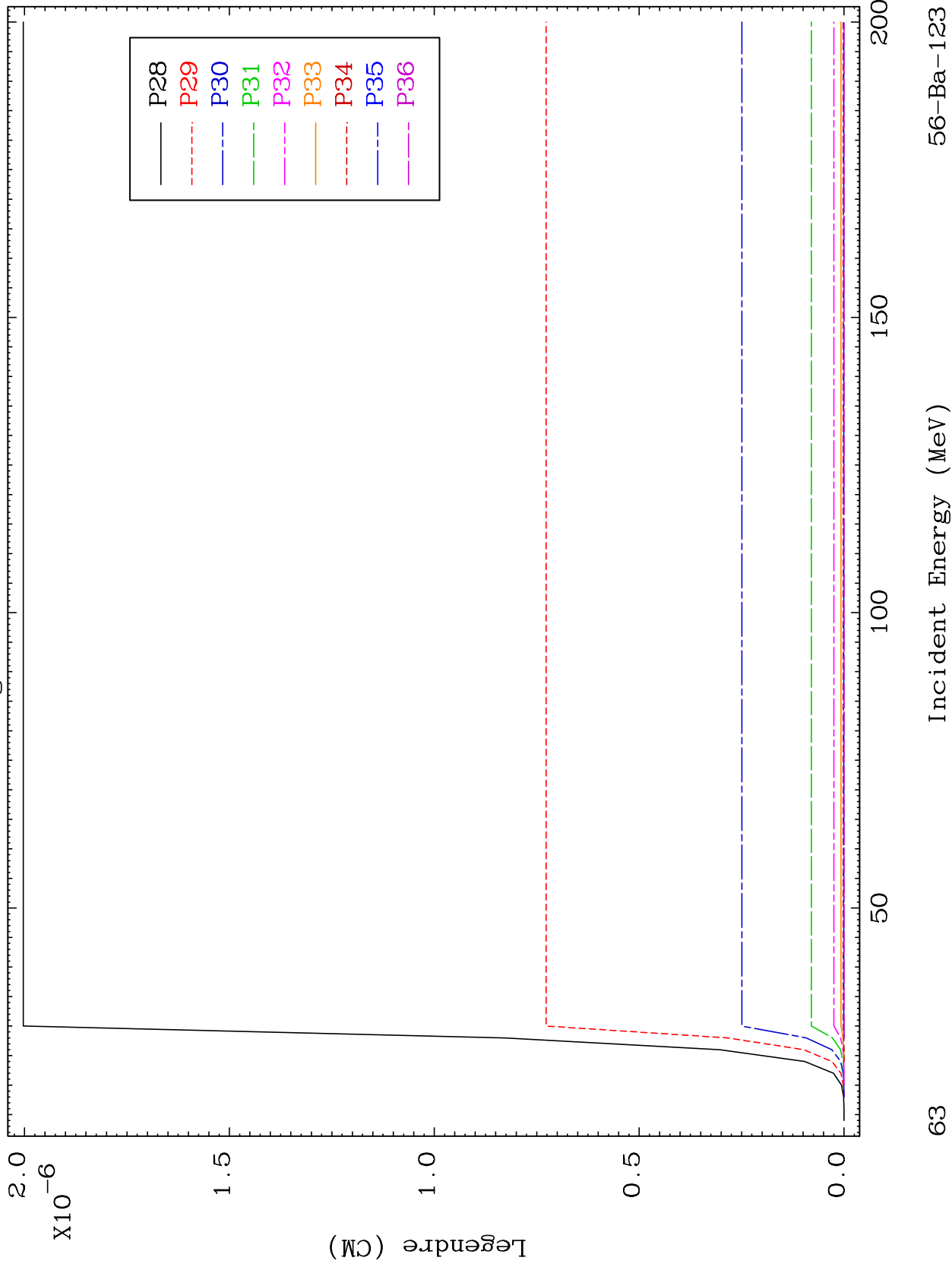
62

56-Ba-123

MAT 5604

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

56-Ba-123

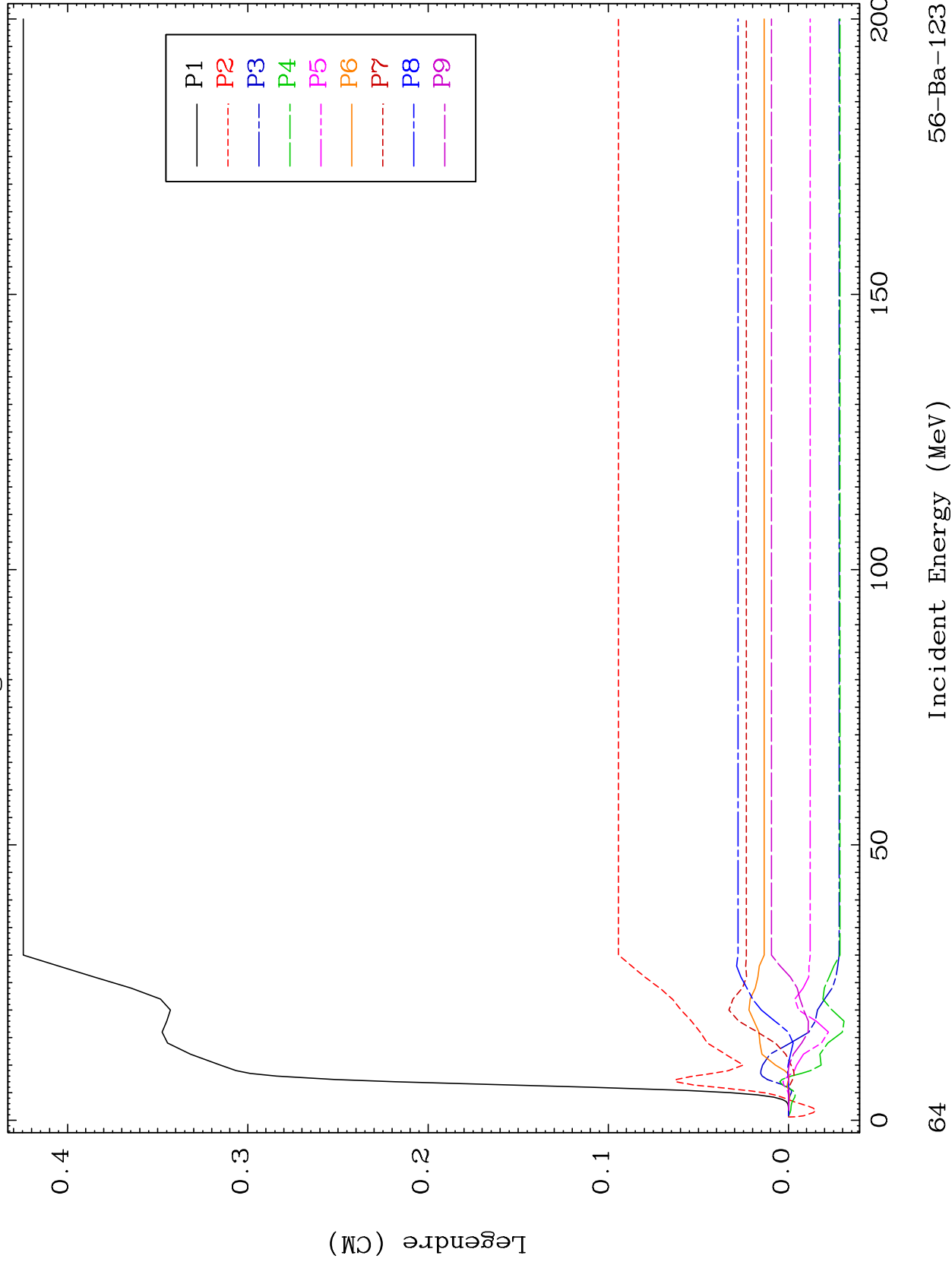




MAT 5604

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

56-Ba-123



56-Ba-123

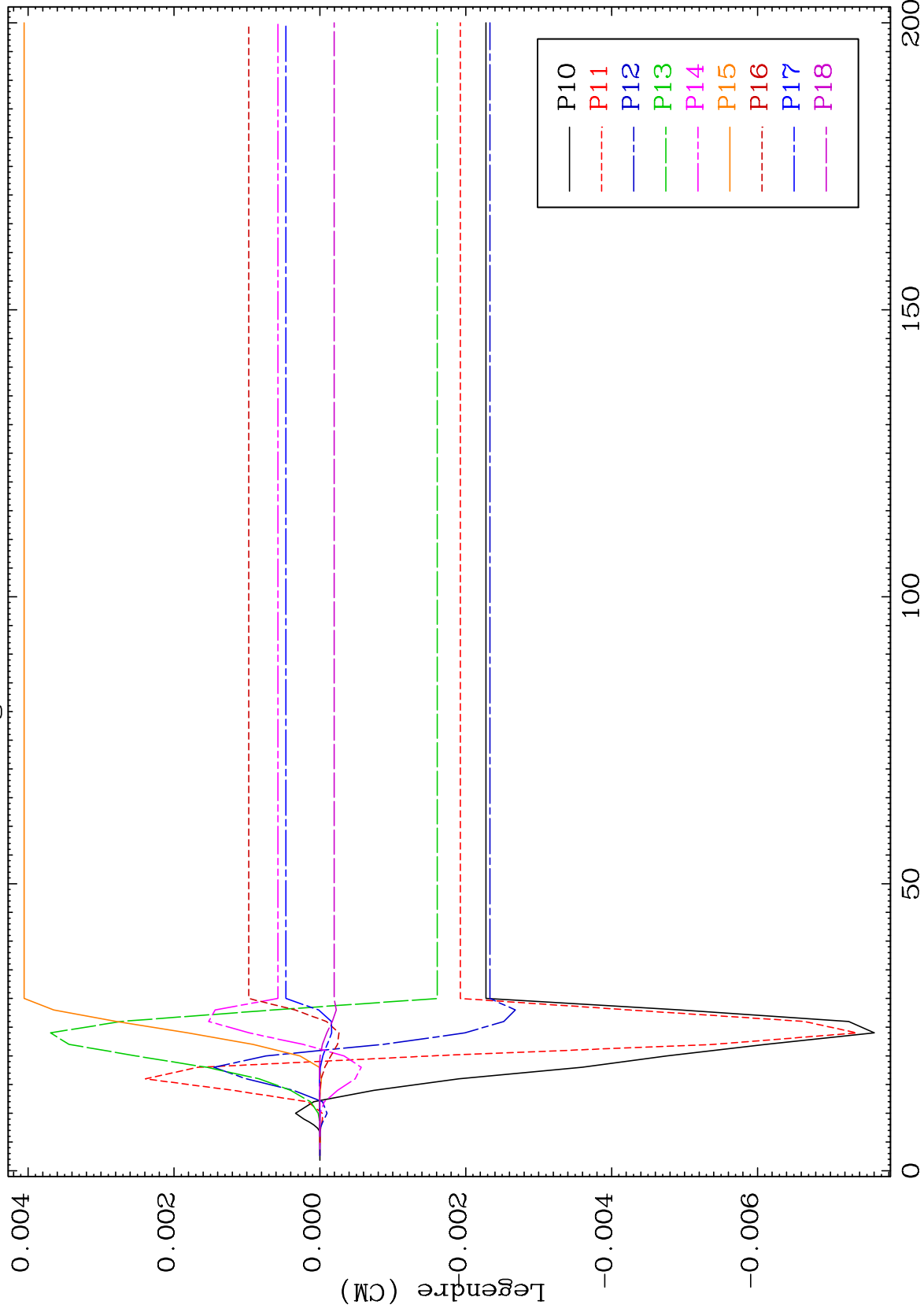
Incident Energy (MeV)

64

MAT 5604

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

56-Ba-123



65

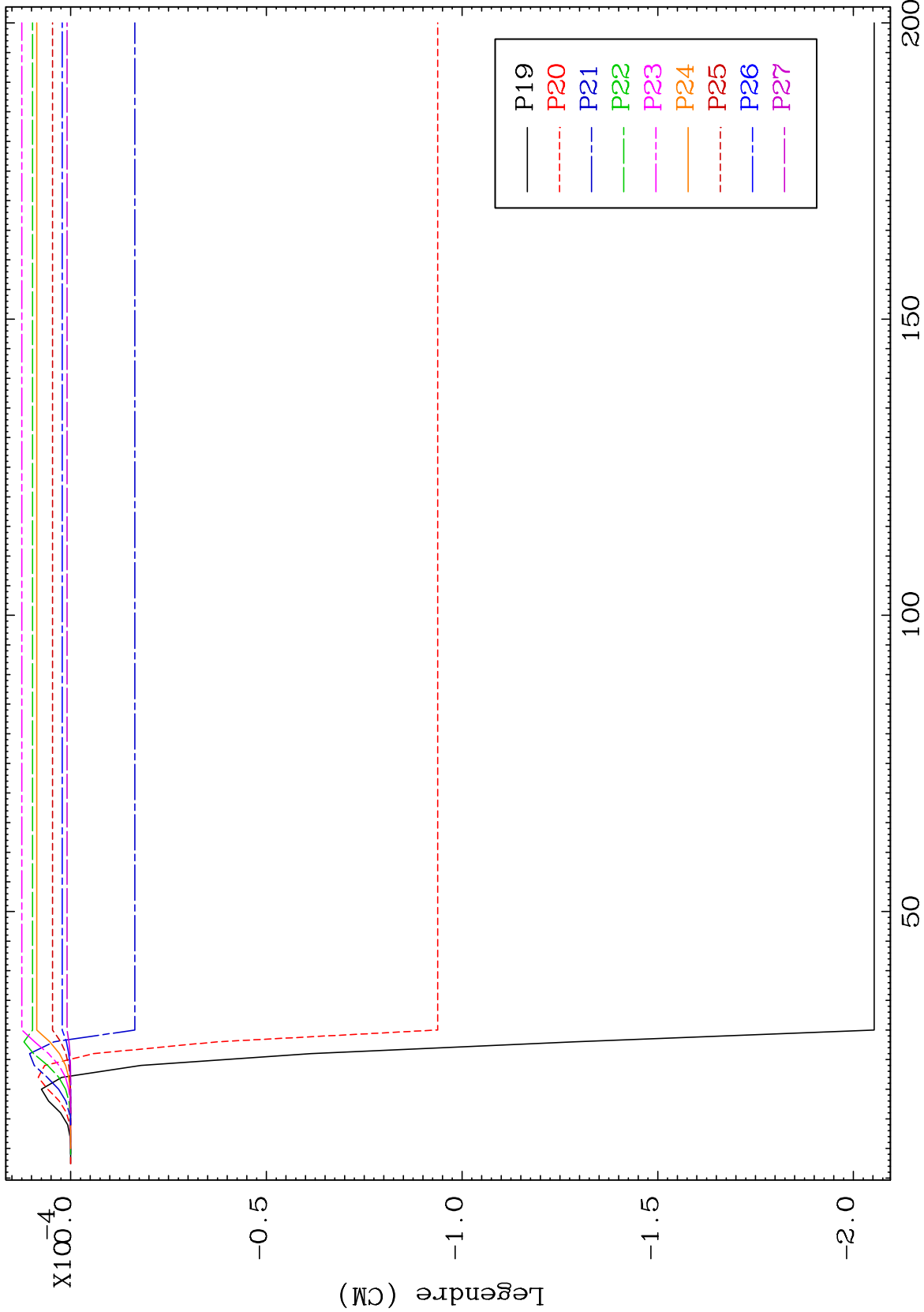
Incident Energy (MeV)

56-Ba-123

MAT 5604

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

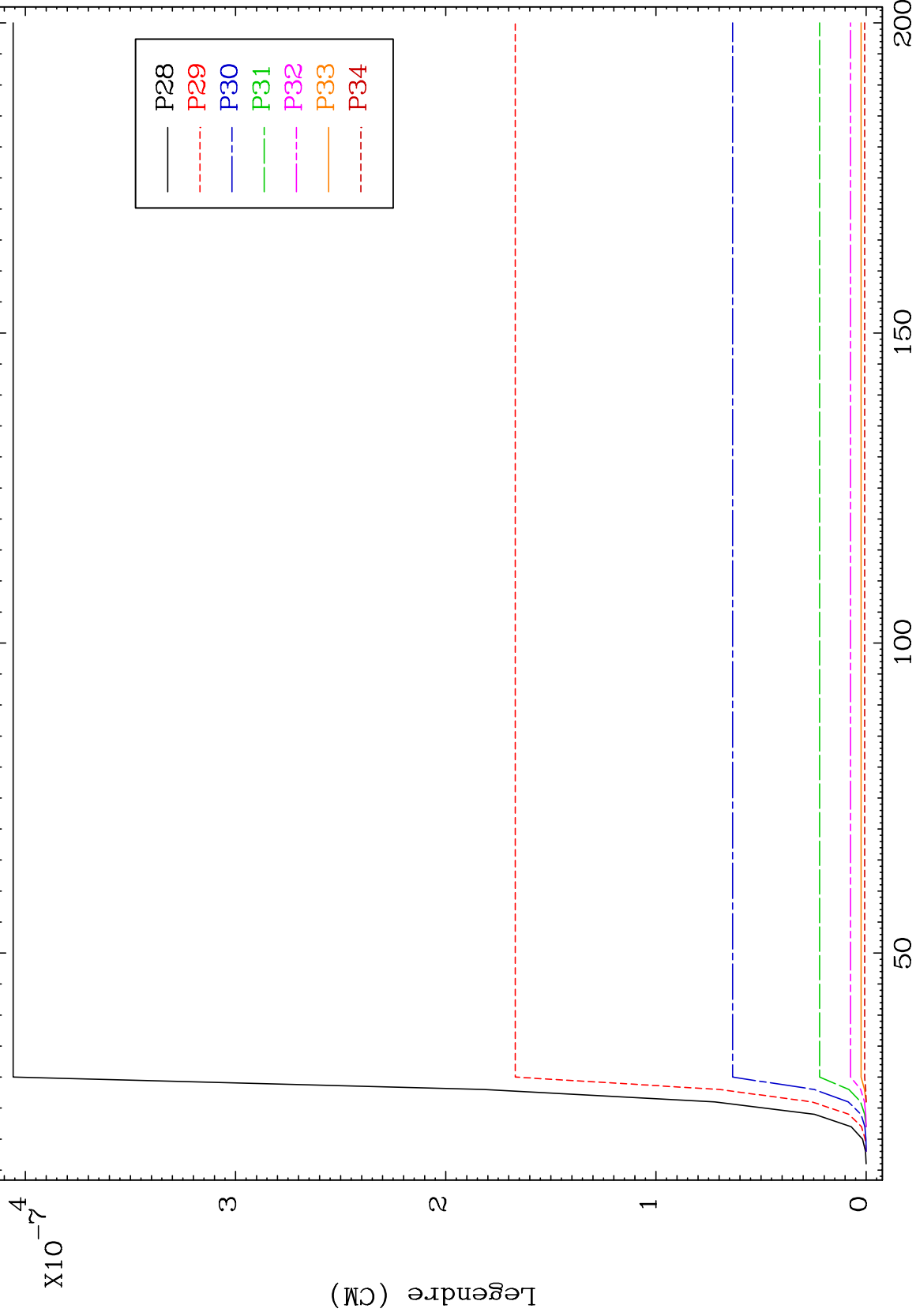
56-Ba-123



MAT 5604

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

56-Ba-123



67

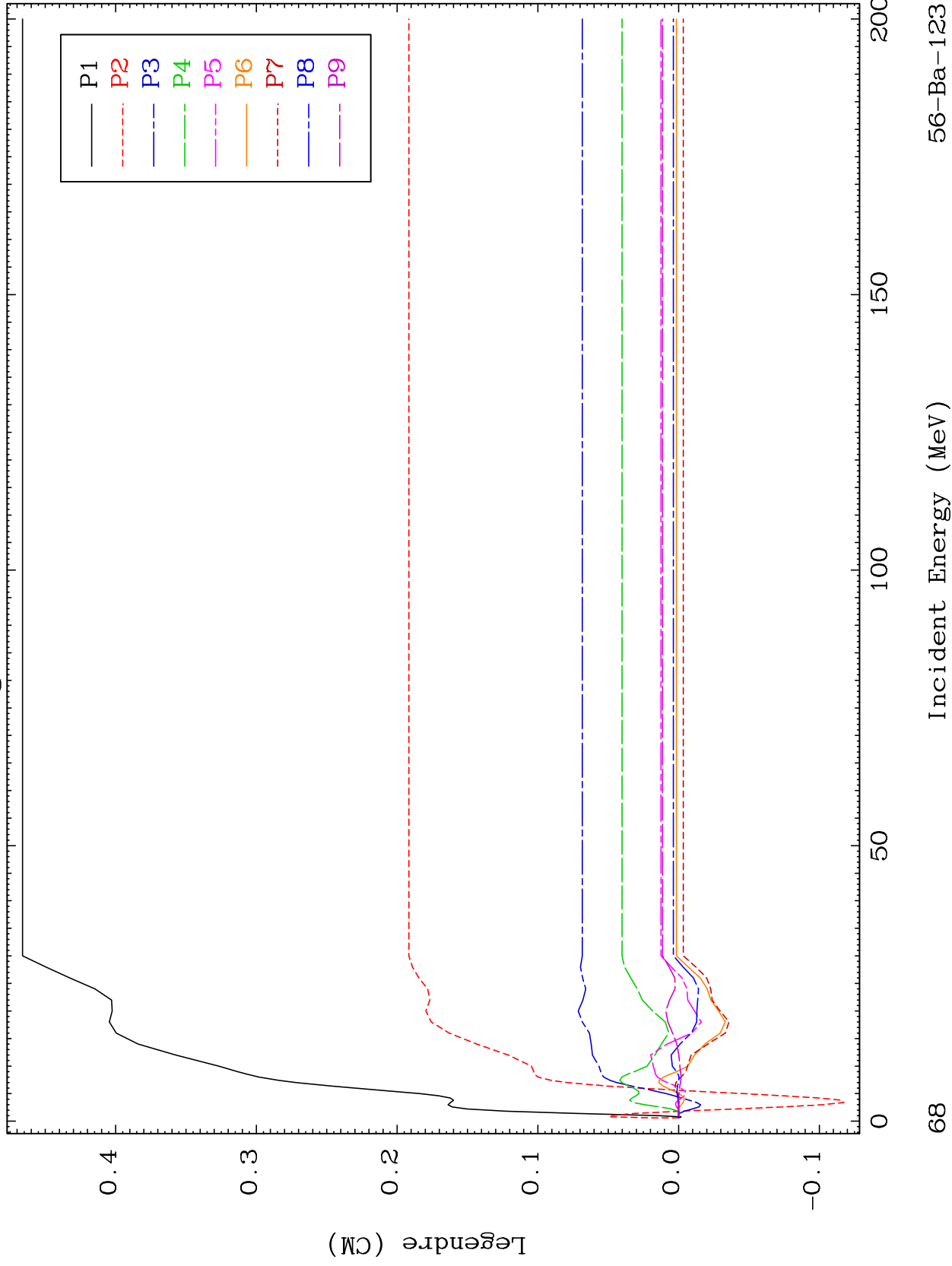
Incident Energy (MeV)

56-Ba-123

MAT 5604

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

56-Ba-123



56-Ba-123

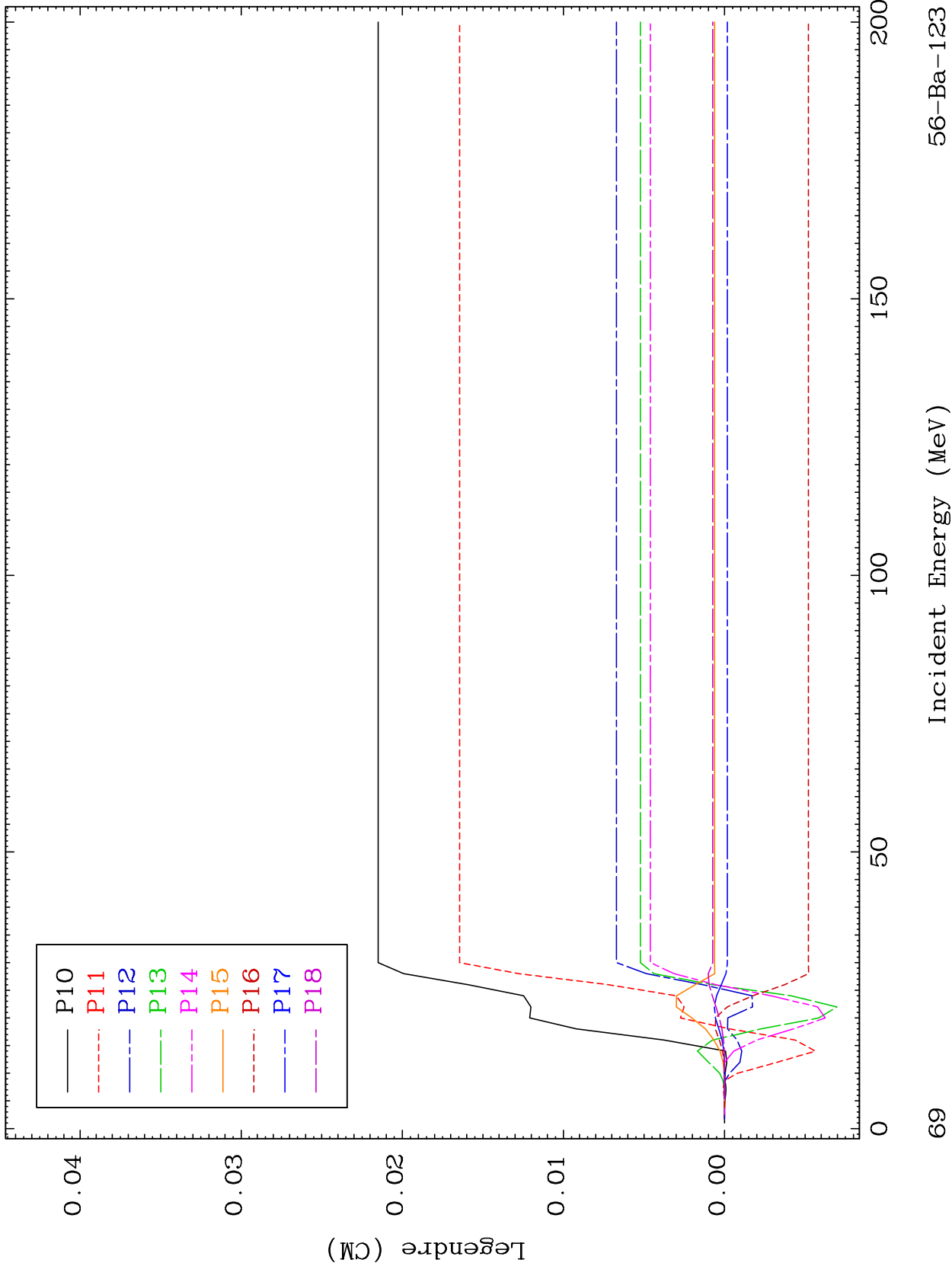
Incident Energy (MeV)

68

MAT 5604

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

56-Ba-123



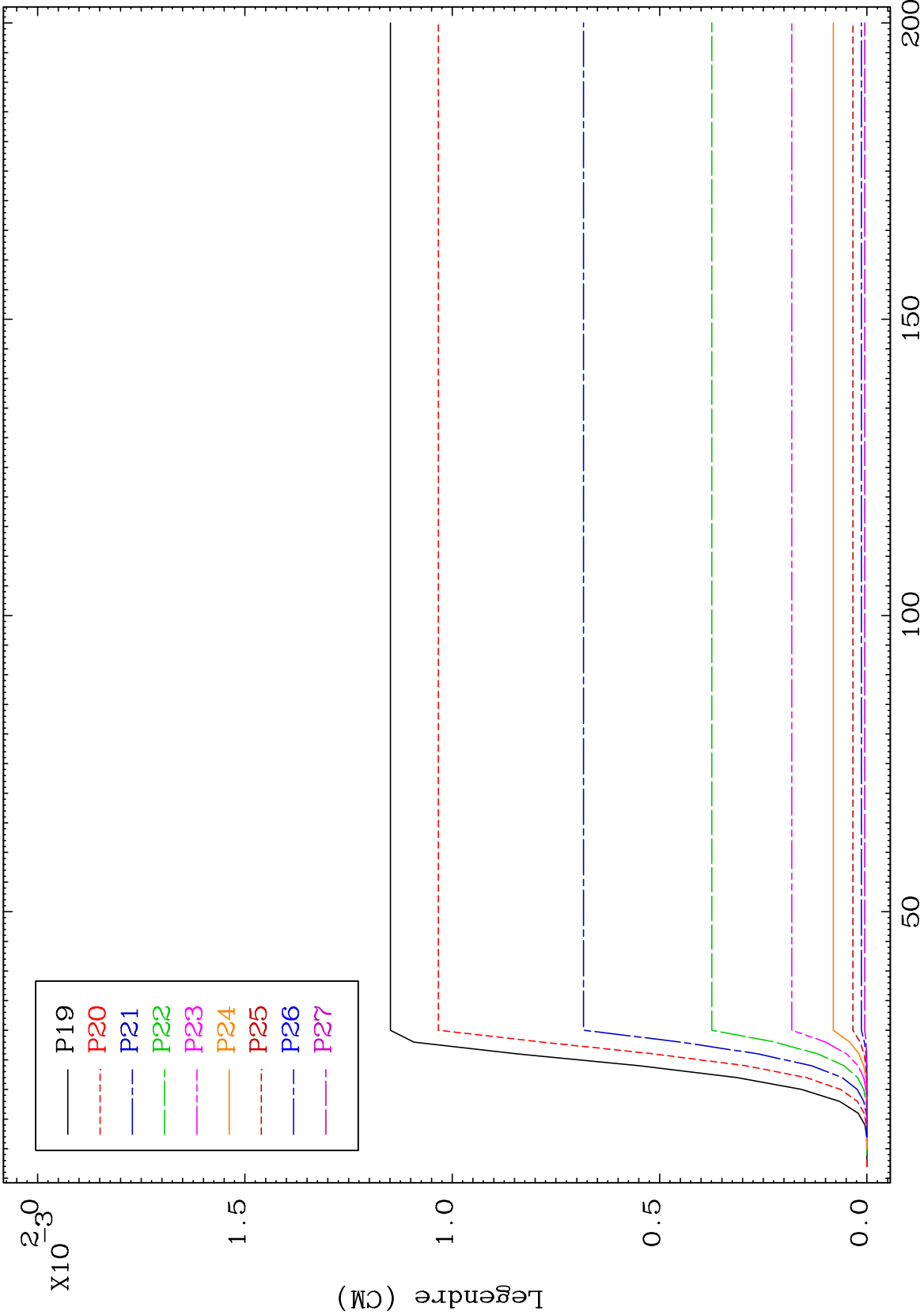
69

56-Ba-123

MAT 5604

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

56-Ba-123



70

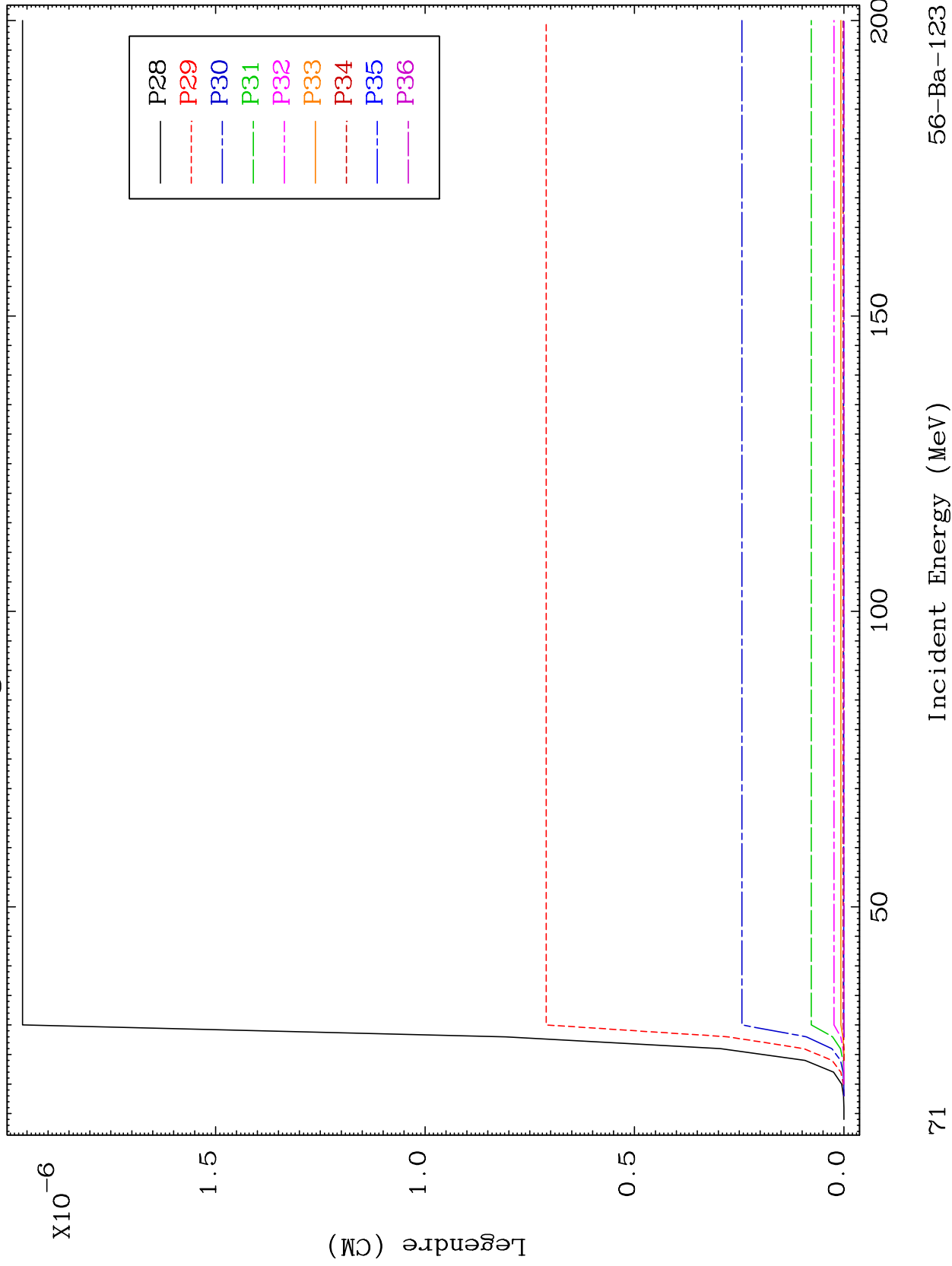
Incident Energy (MeV)

56-Ba-123

MAT 5604

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

56-Ba-123

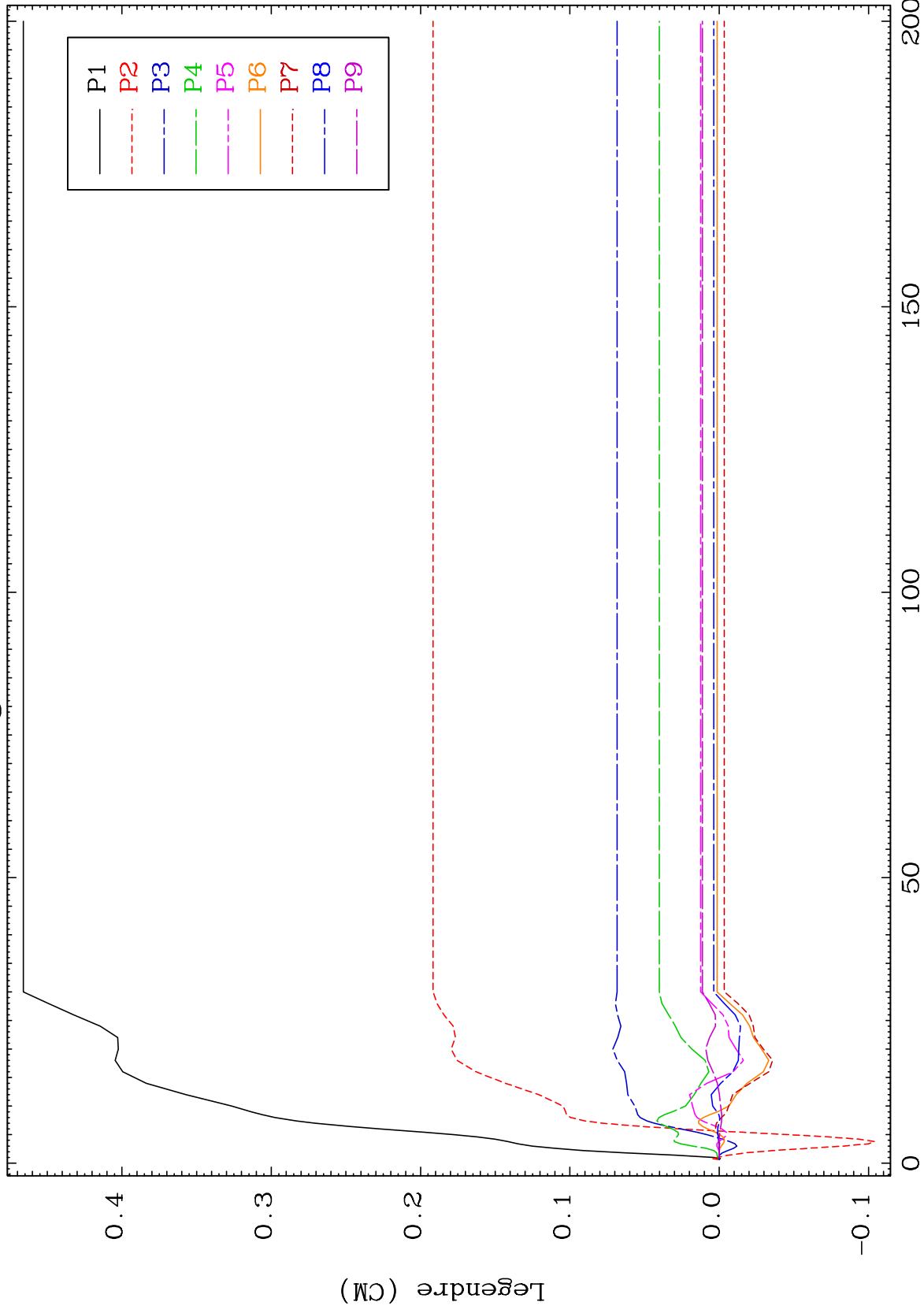




MAT 5604

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

56-Ba-123



72

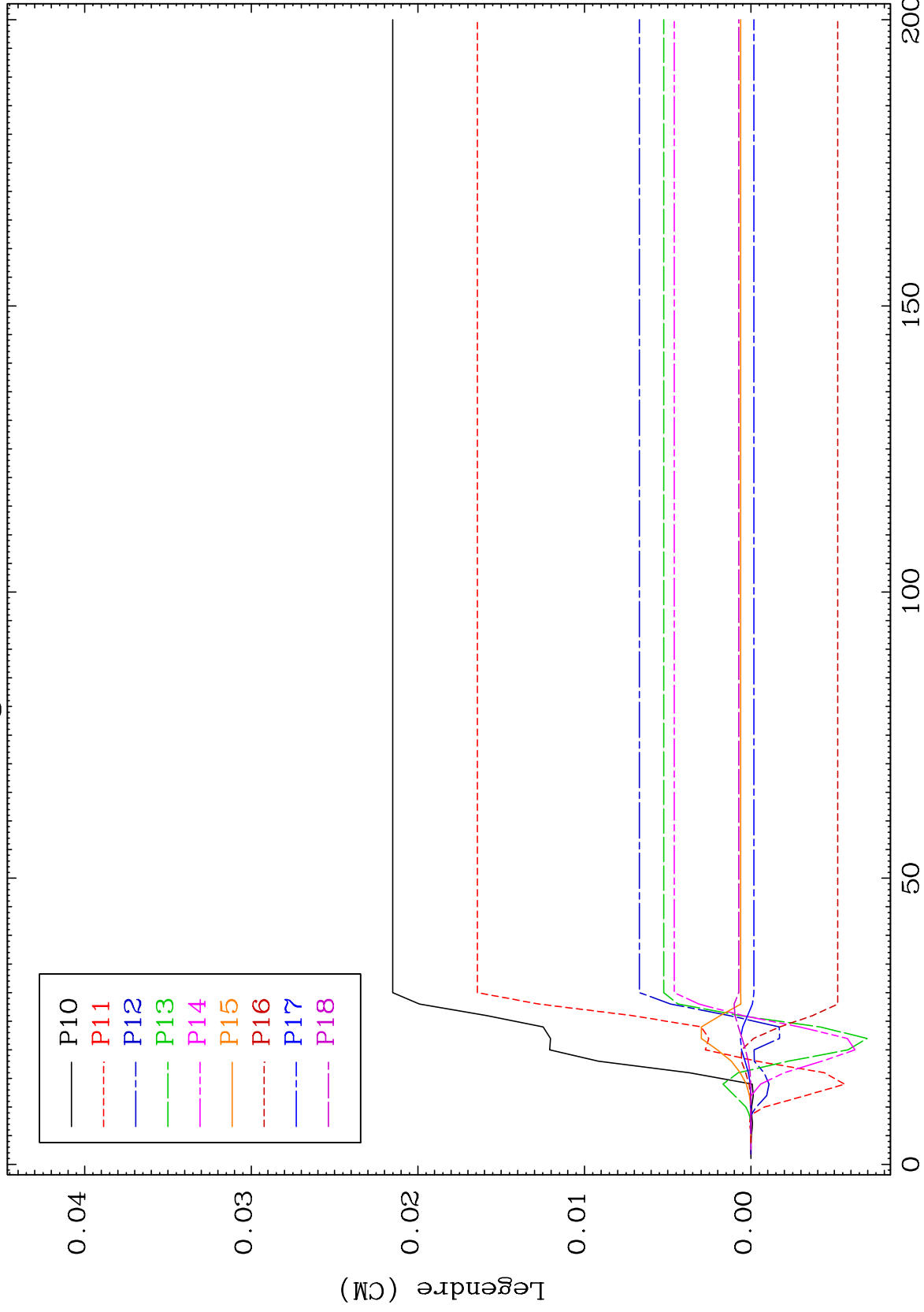
Incident Energy (MeV)

56-Ba-123

MAT 5604

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

56-Ba-123



73

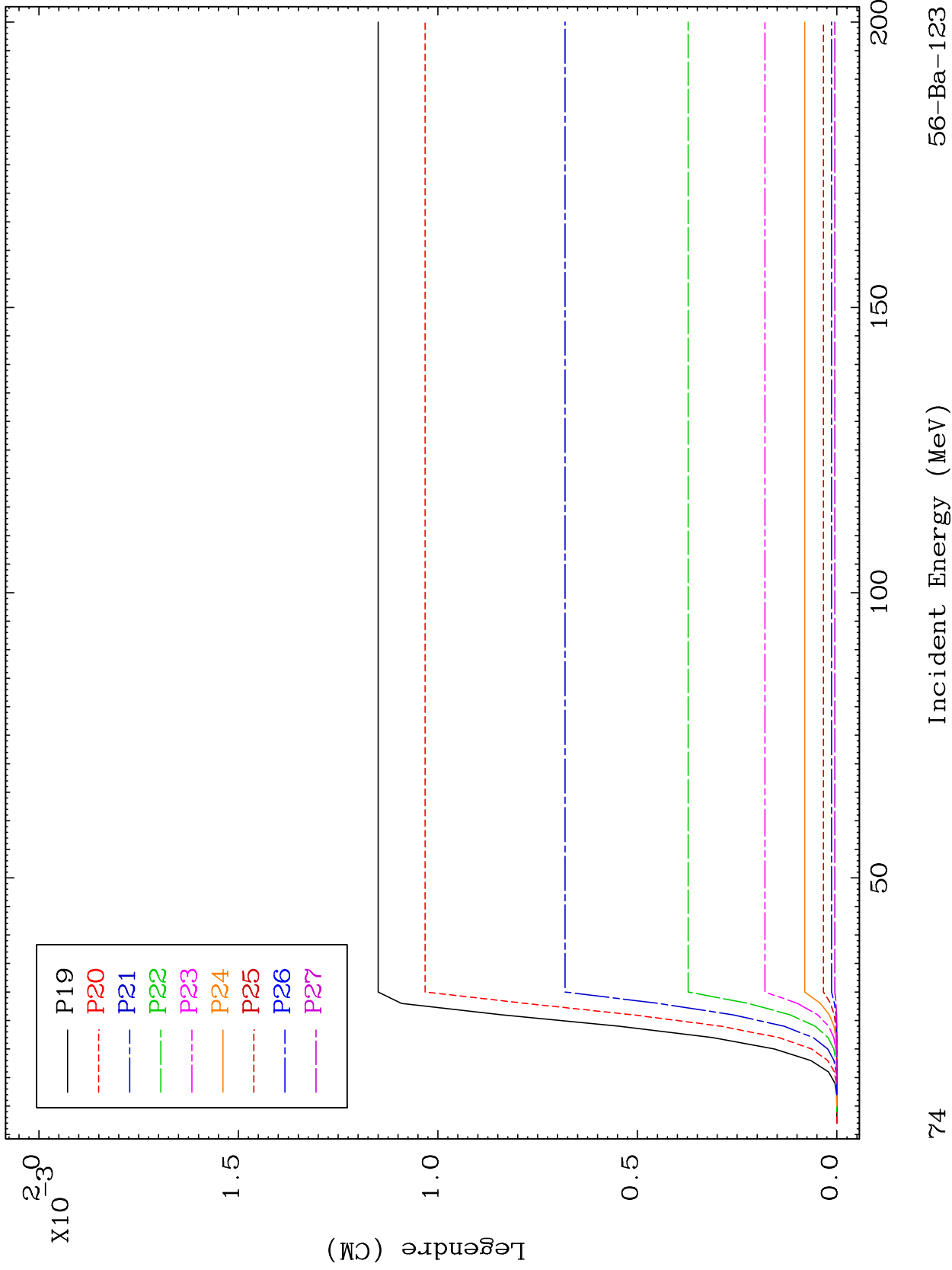
Incident Energy (MeV)

56-Ba-123

MAT 5604

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

56-Ba-123



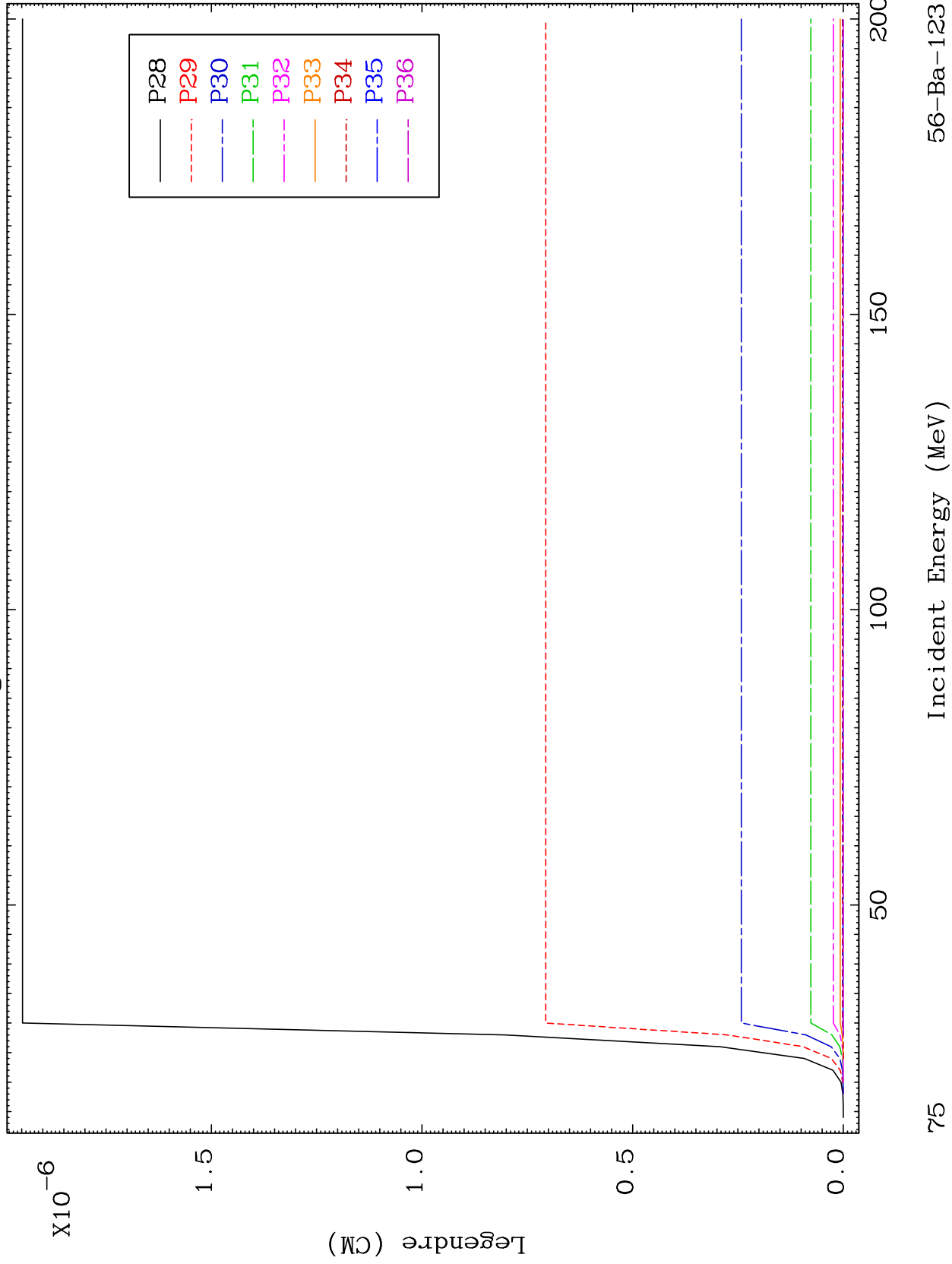
74

56-Ba-123

MAT 5604

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

56-Ba-123



75

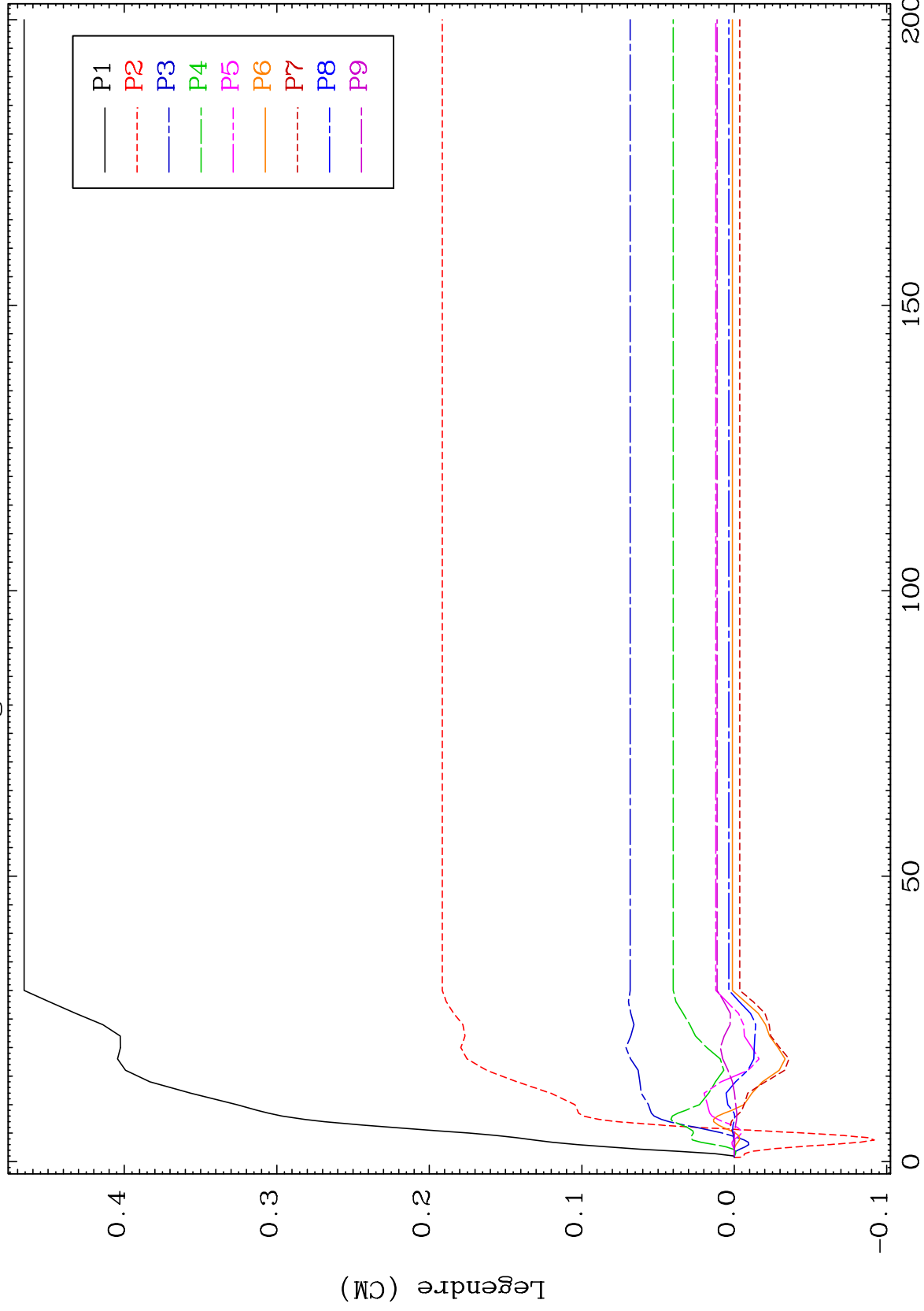
Incident Energy (MeV)

56-Ba-123

MAT 5604

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

56-Ba-123



76

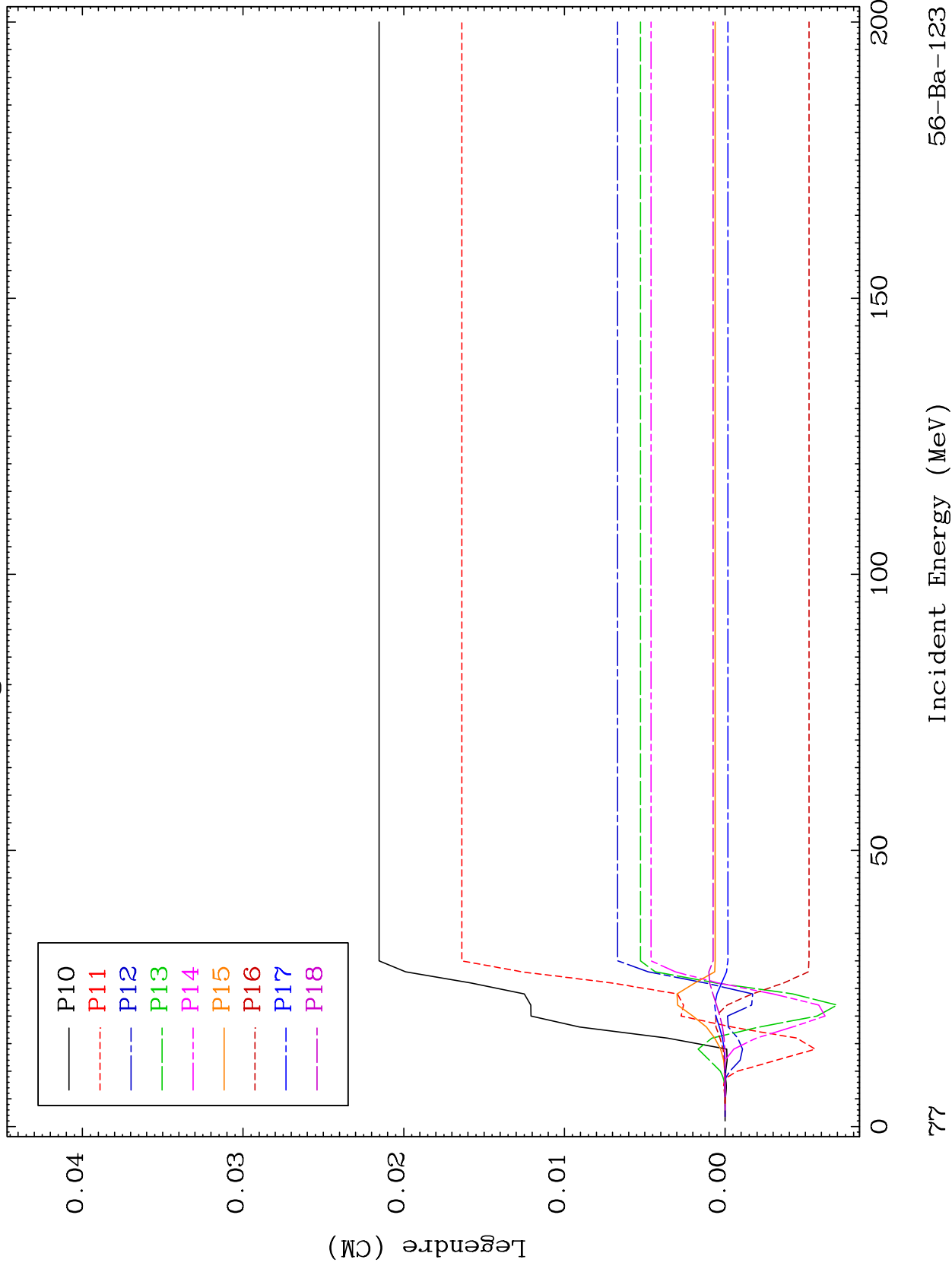
Incident Energy (MeV)

56-Ba-123

MAT 5604

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

56-Ba-123



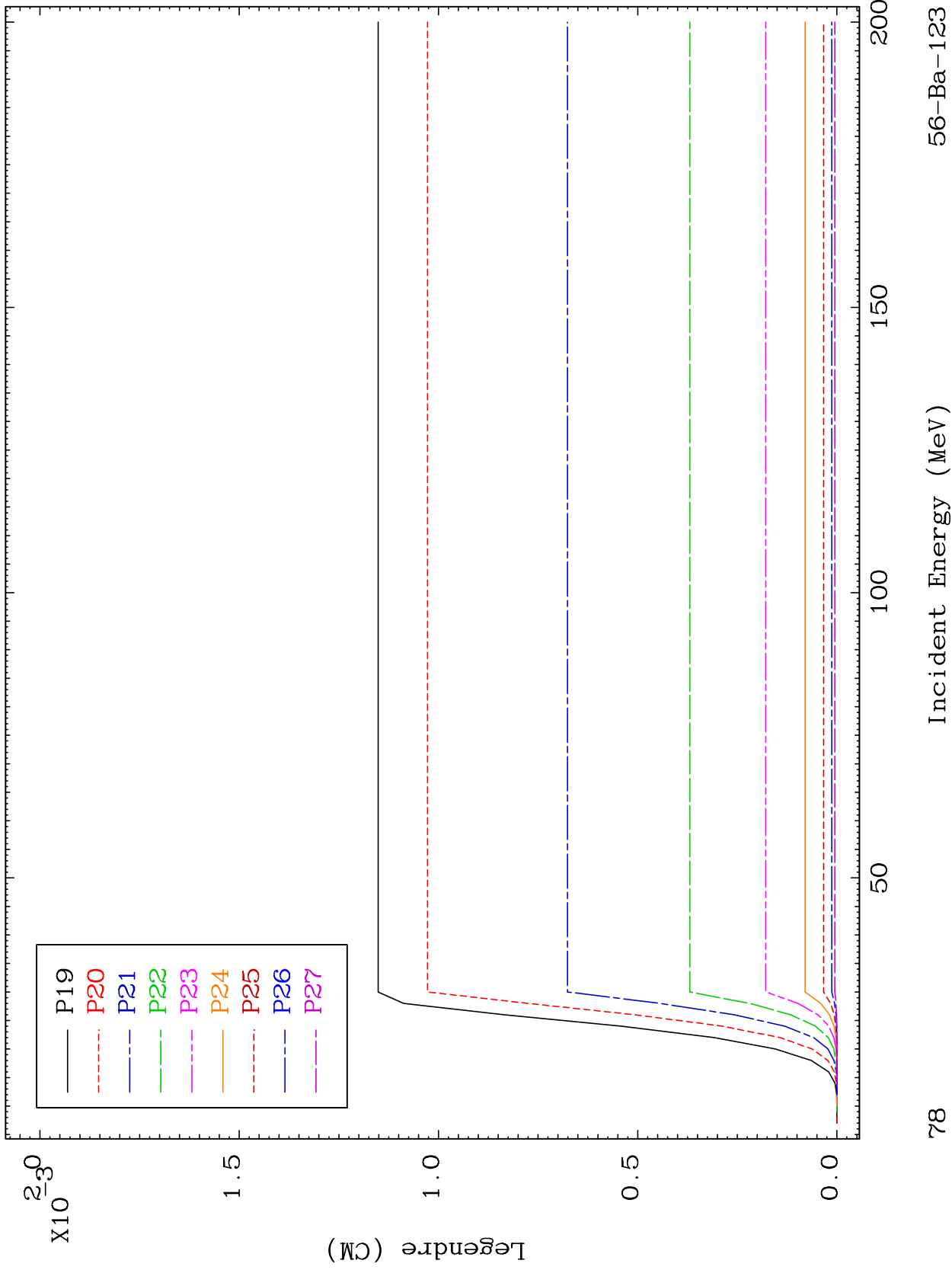
77

56-Ba-123

MAT 5604

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

56-Ba-123



78

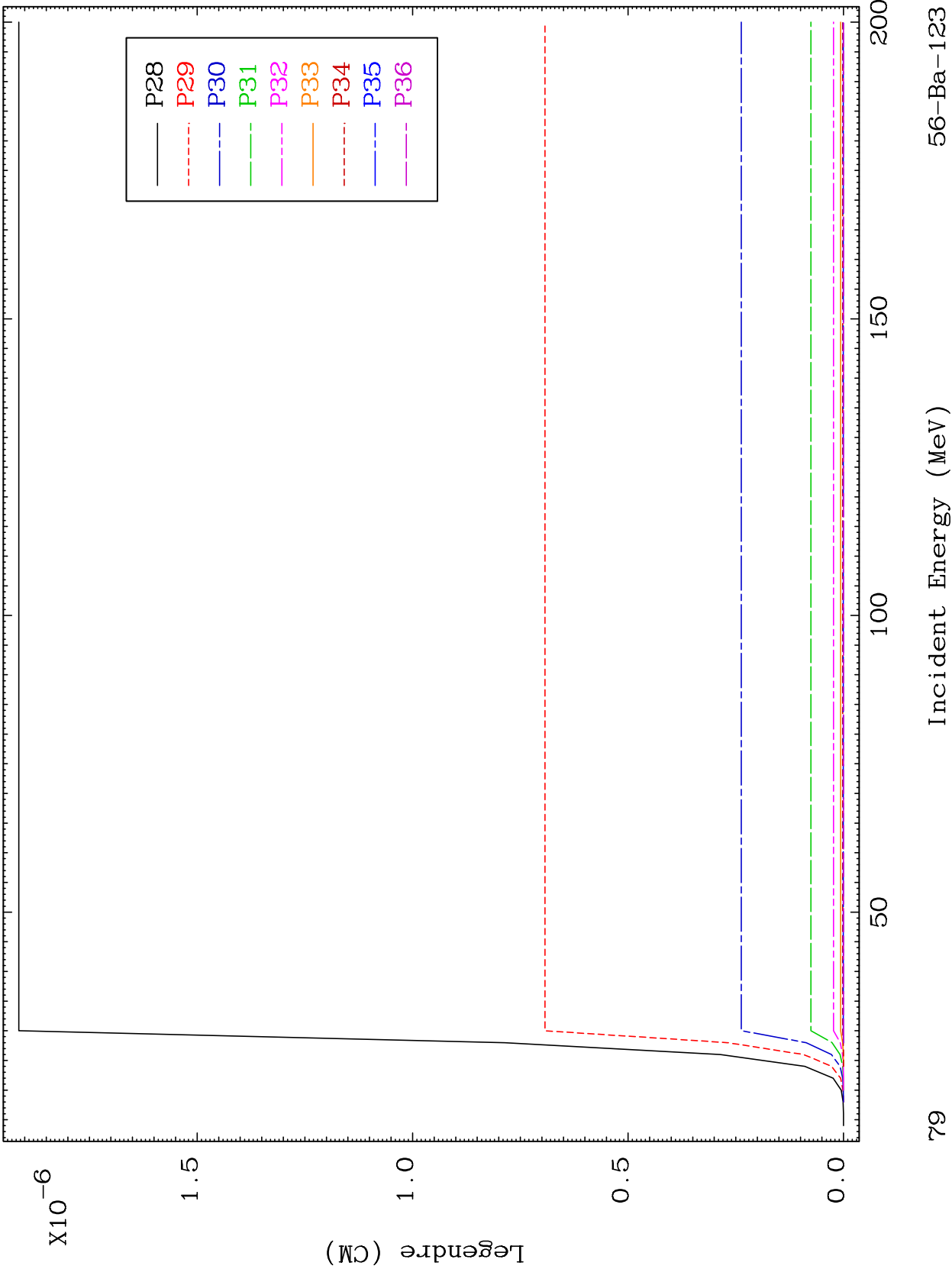
Incident Energy (MeV)

56-Ba-123

MAT 5604

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

56-Ba-123



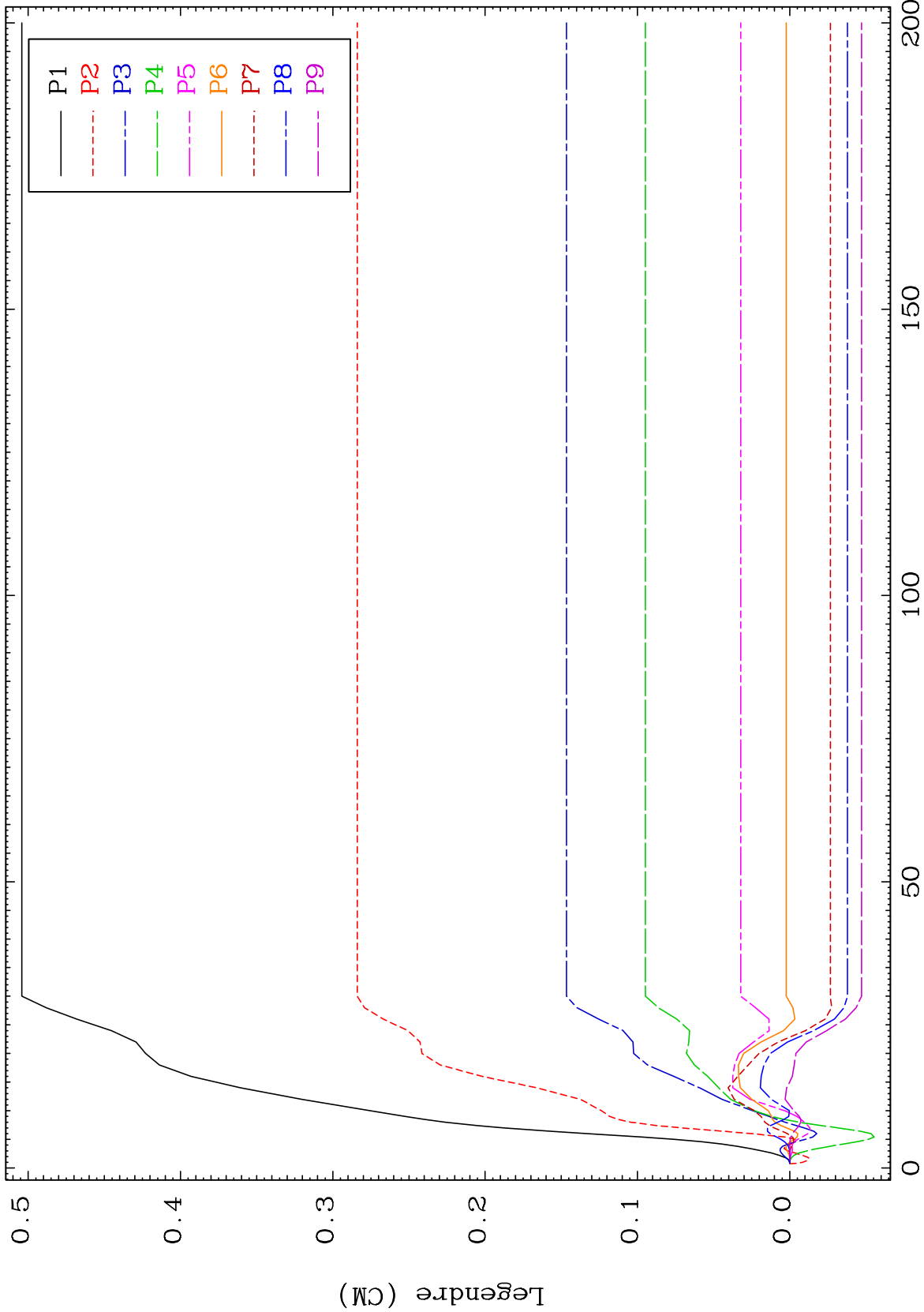


MAT 5604

MT= 66 (n,n') Level

56-Ba-123

Legendre Coefficients



56-Ba-123

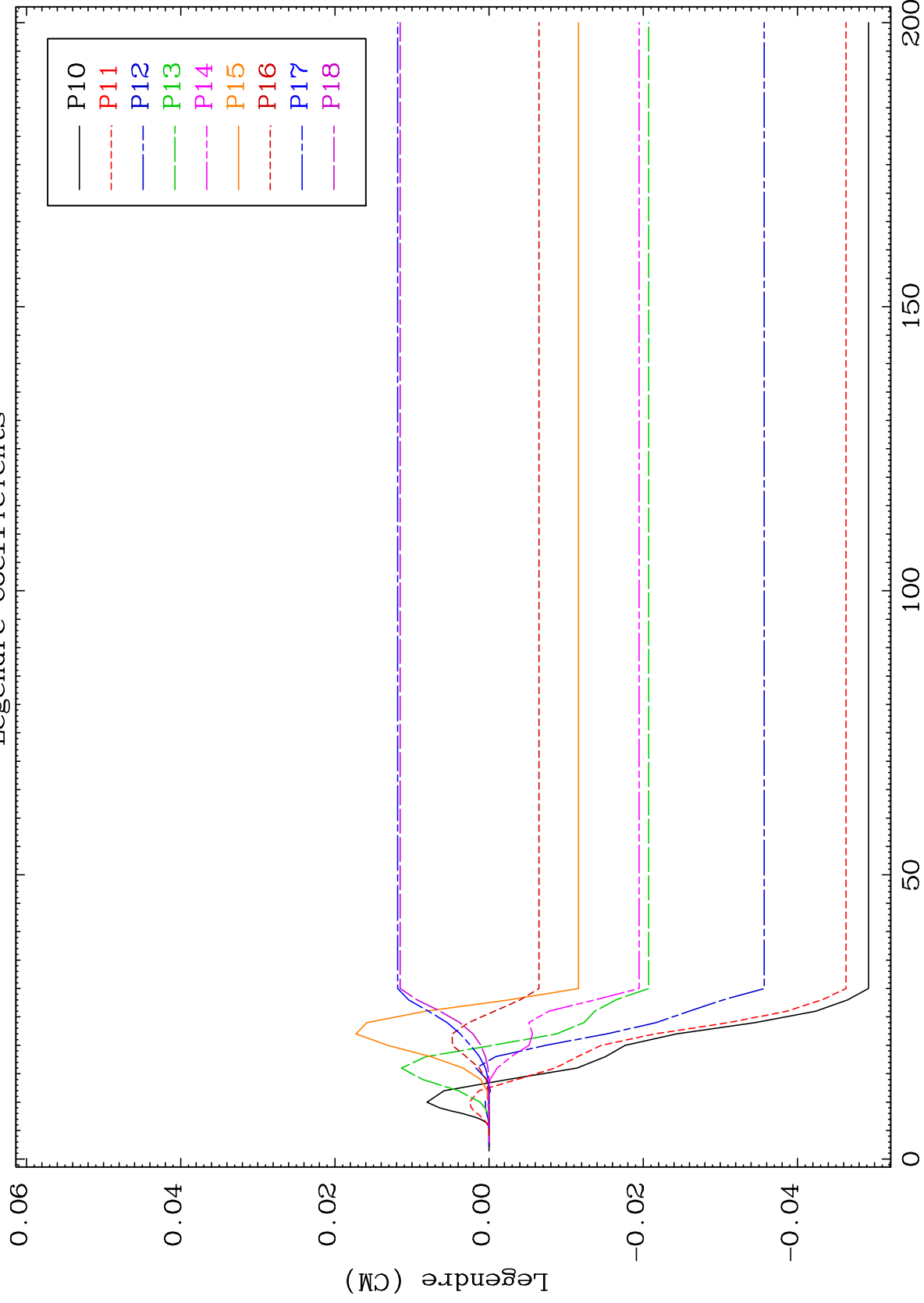
Incident Energy (MeV)

80

MAT 5604

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

56-Ba-123



81

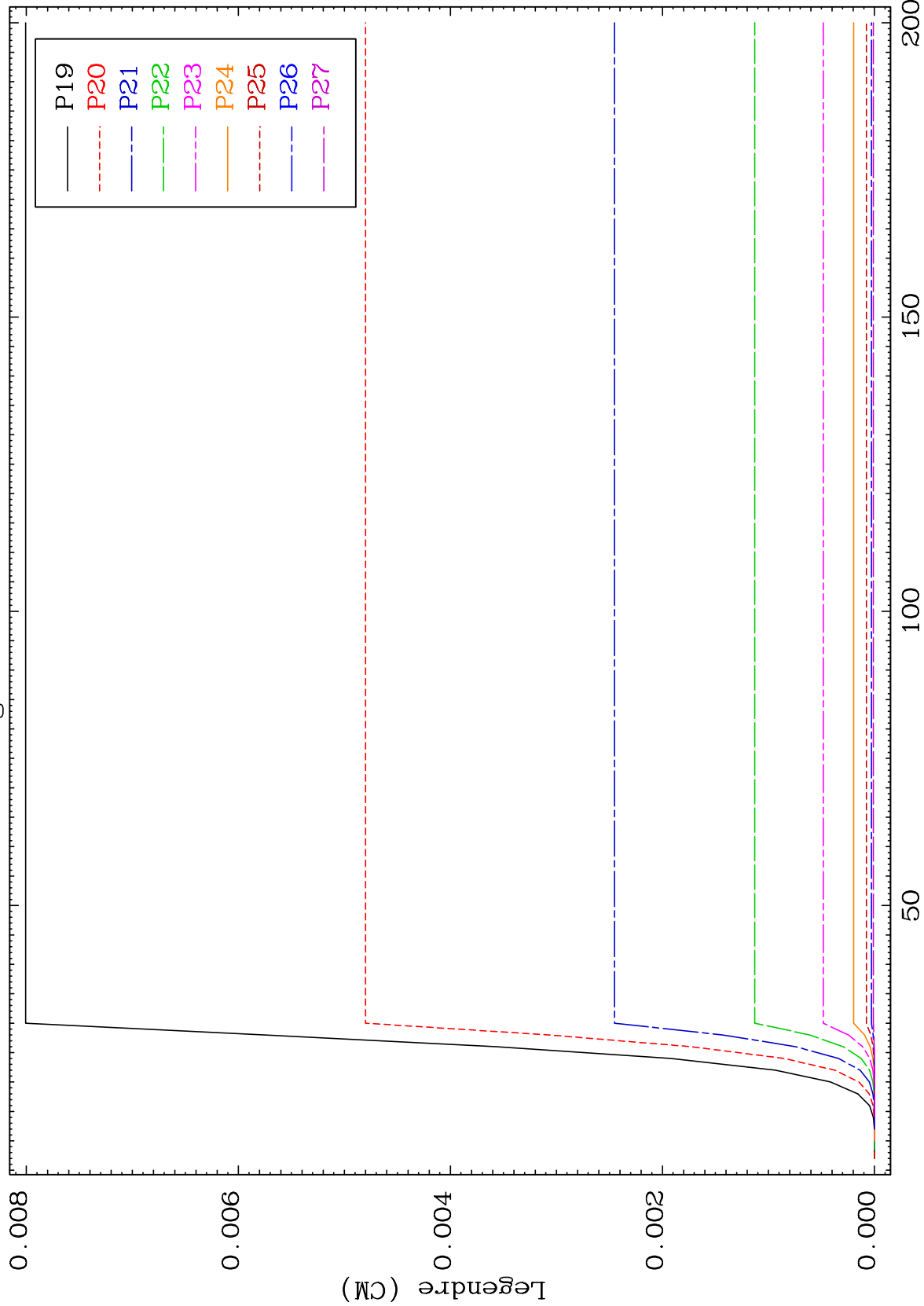
Incident Energy (MeV)

56-Ba-123

MAT 5604

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

56-Ba-123



82

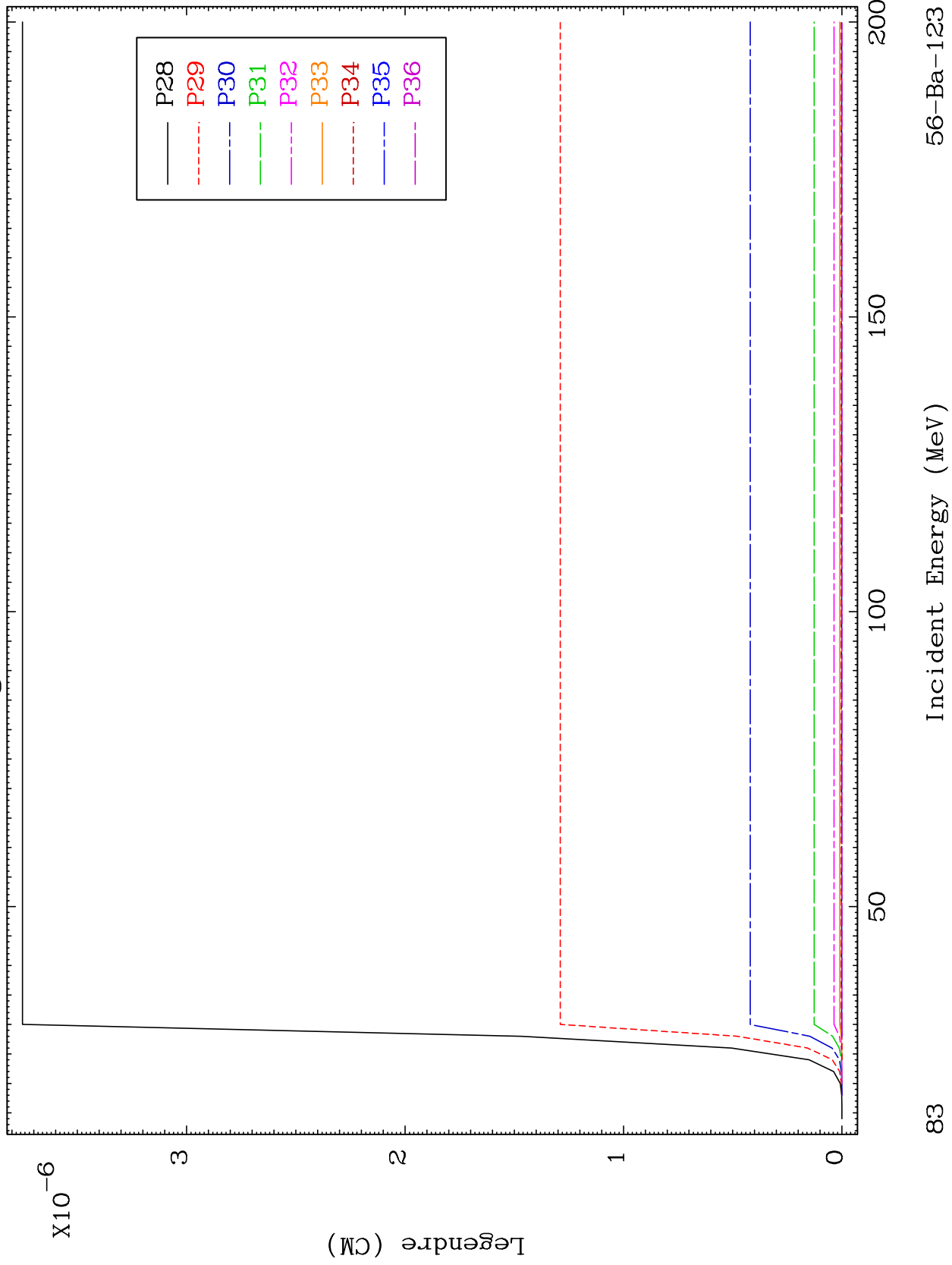
Incident Energy (MeV)

56-Ba-123

MAT 5604

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

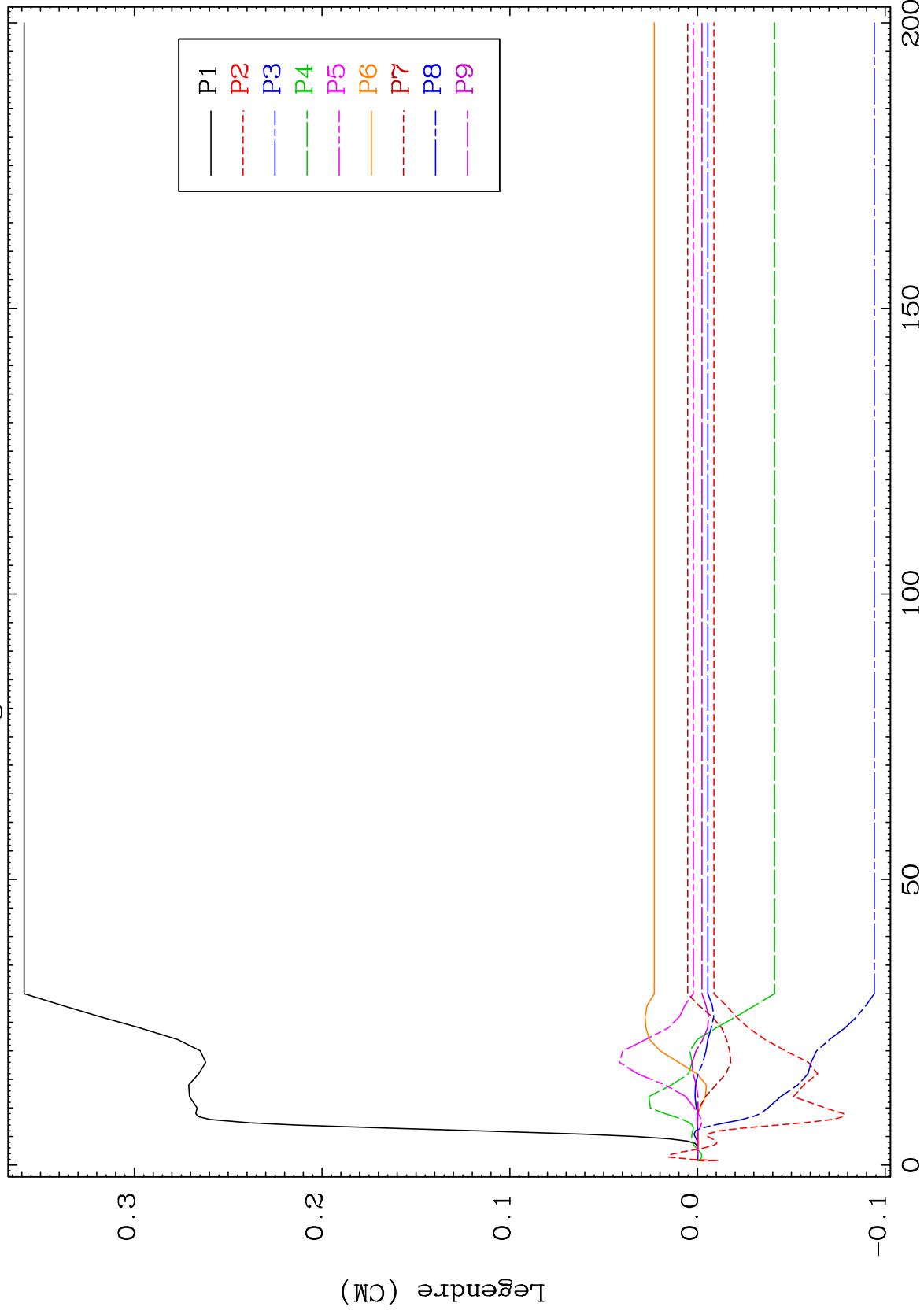
56-Ba-123



MAT 5604

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

56-Ba-123



84

Incident Energy (MeV)

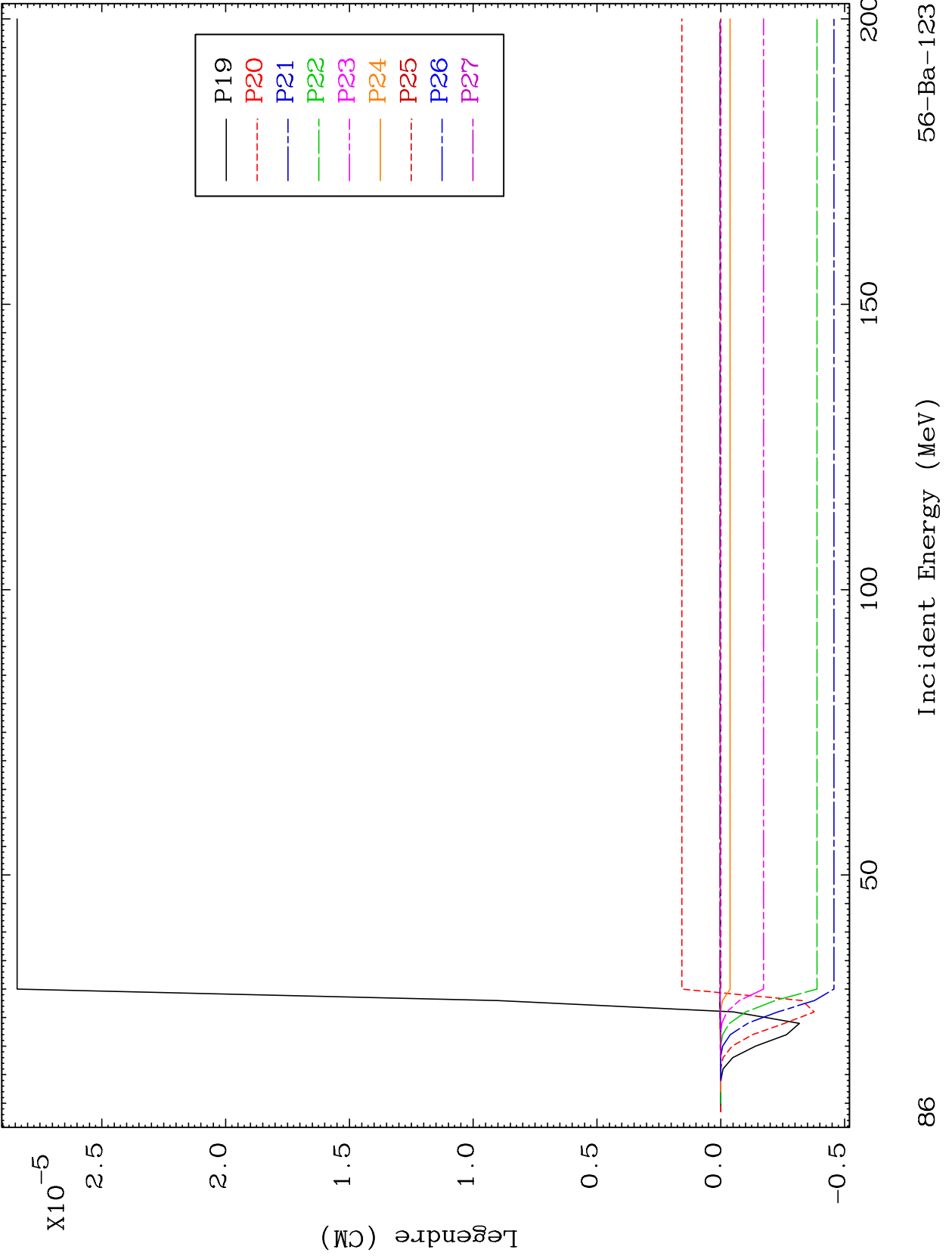
56-Ba-123



MAT 5604

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

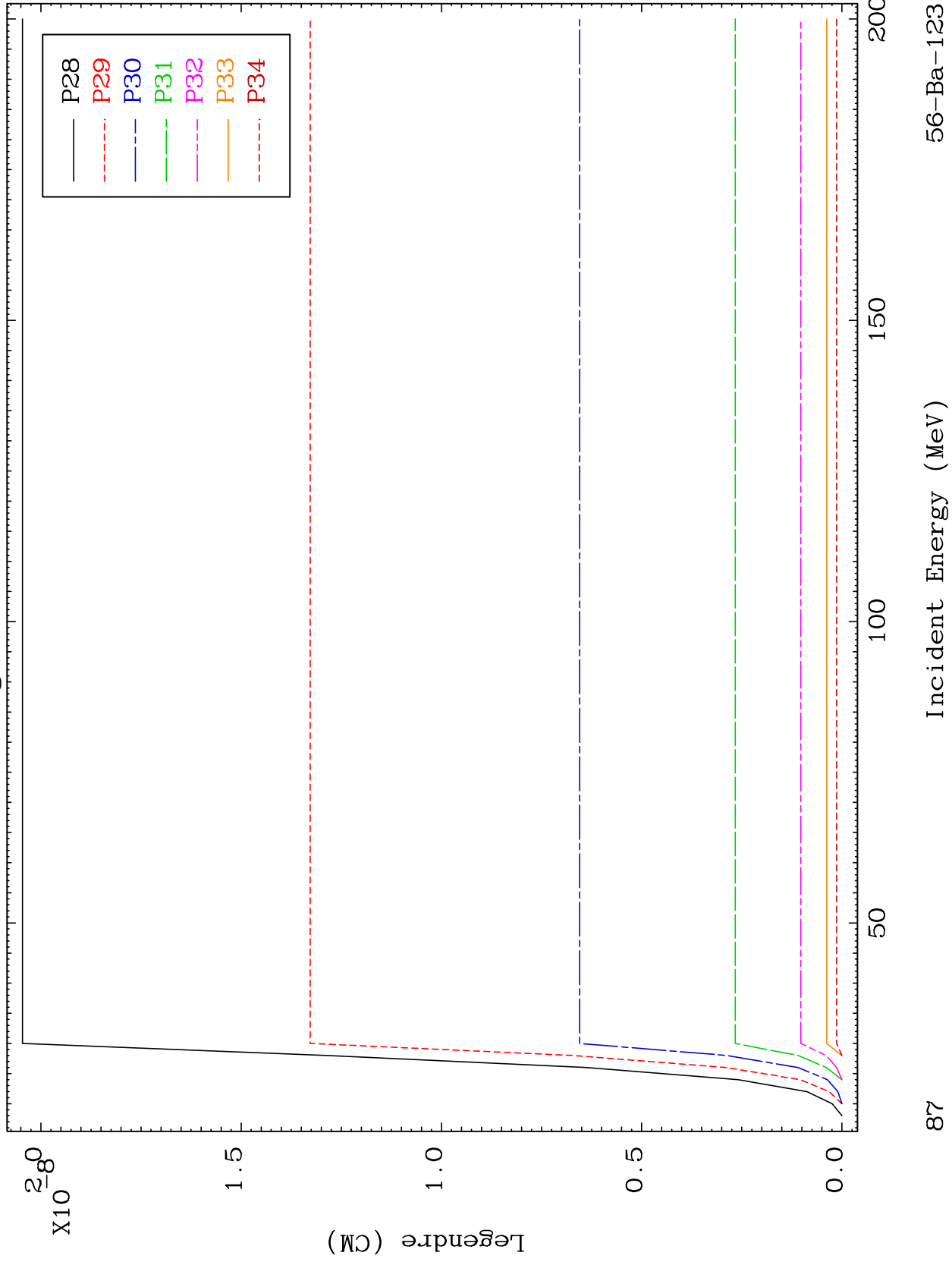
56-Ba-123



MAT 5604

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

56-Ba-123



87

56-Ba-123

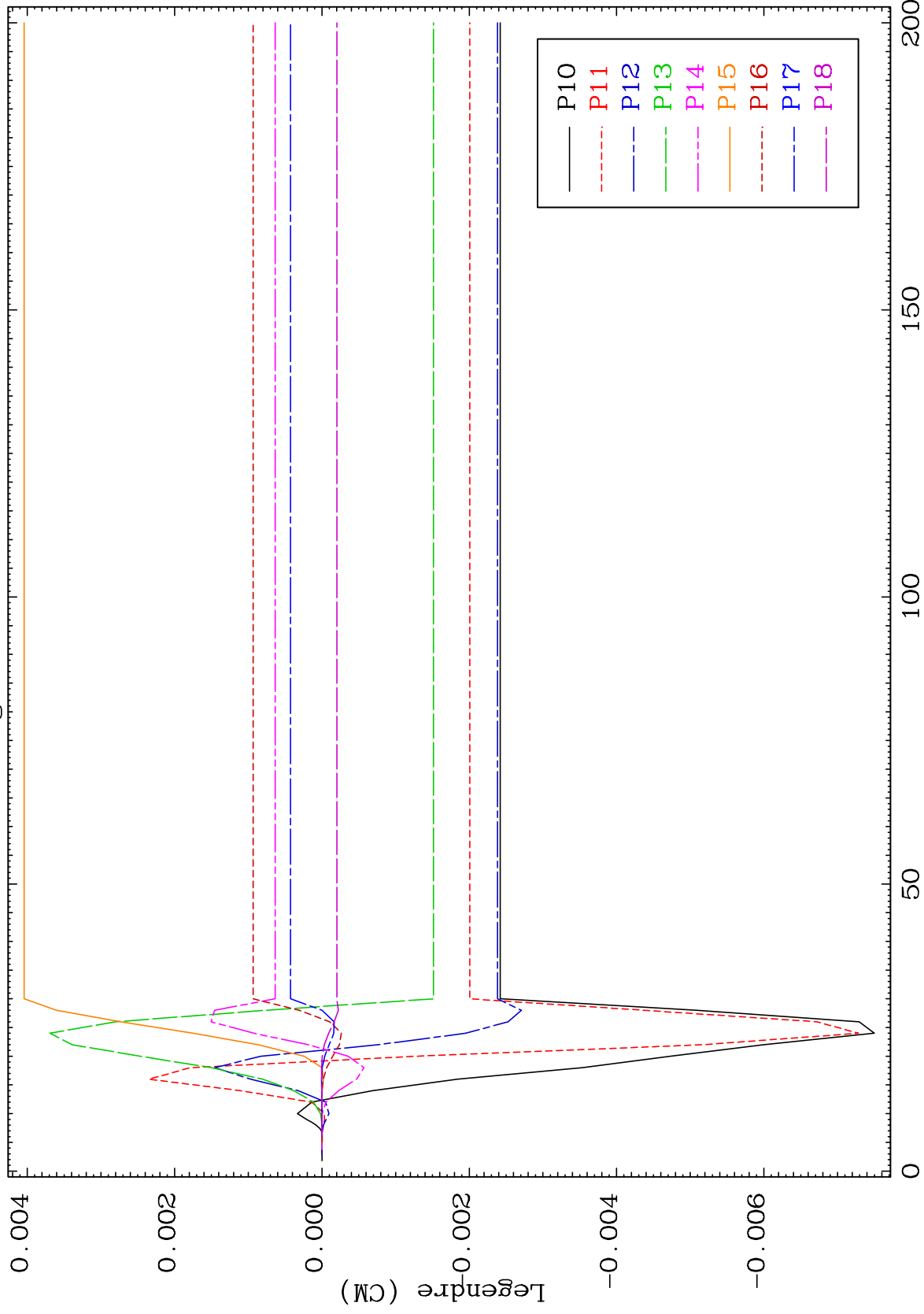




MAT 5604

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

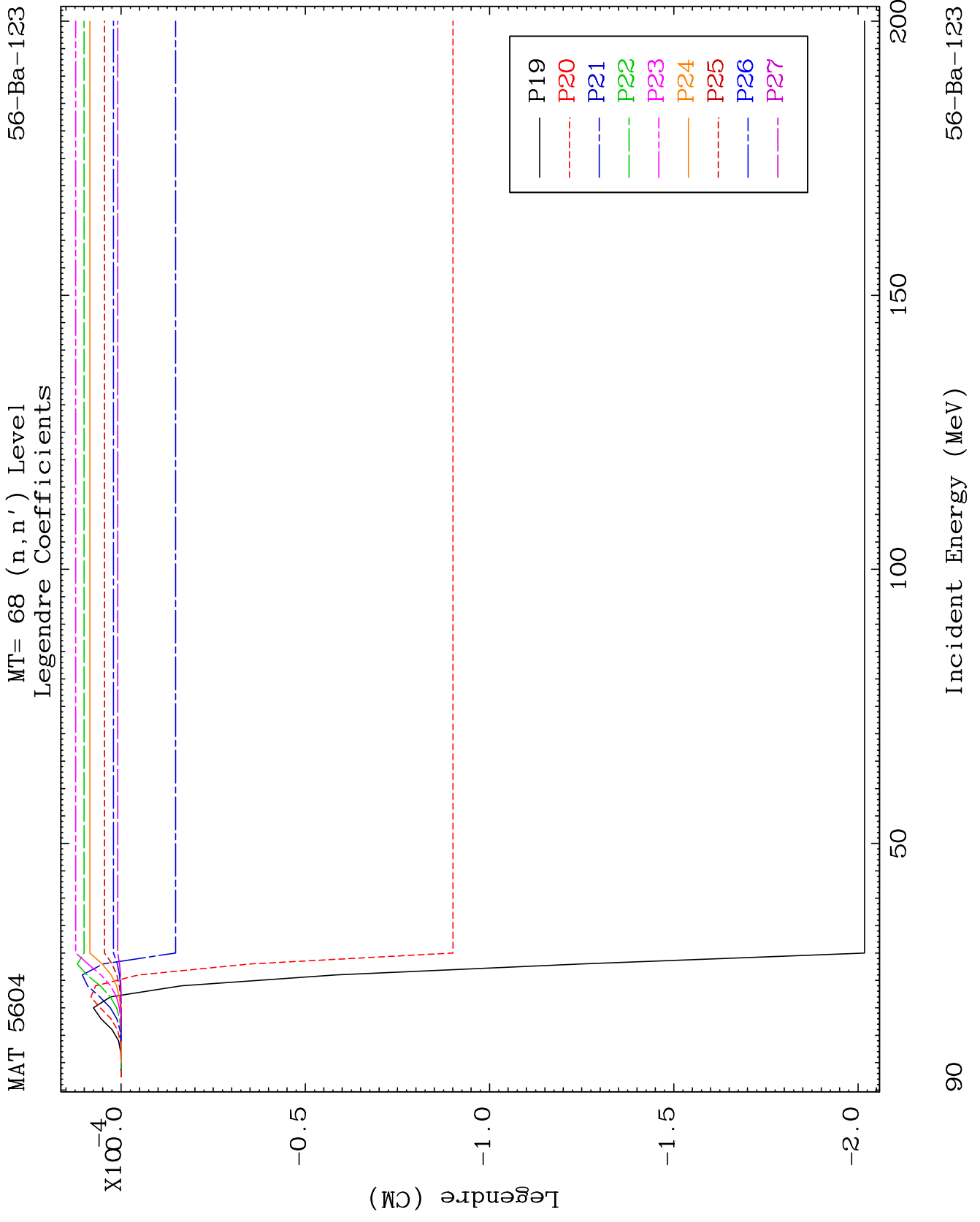
56-Ba-123



89

Incident Energy (MeV)

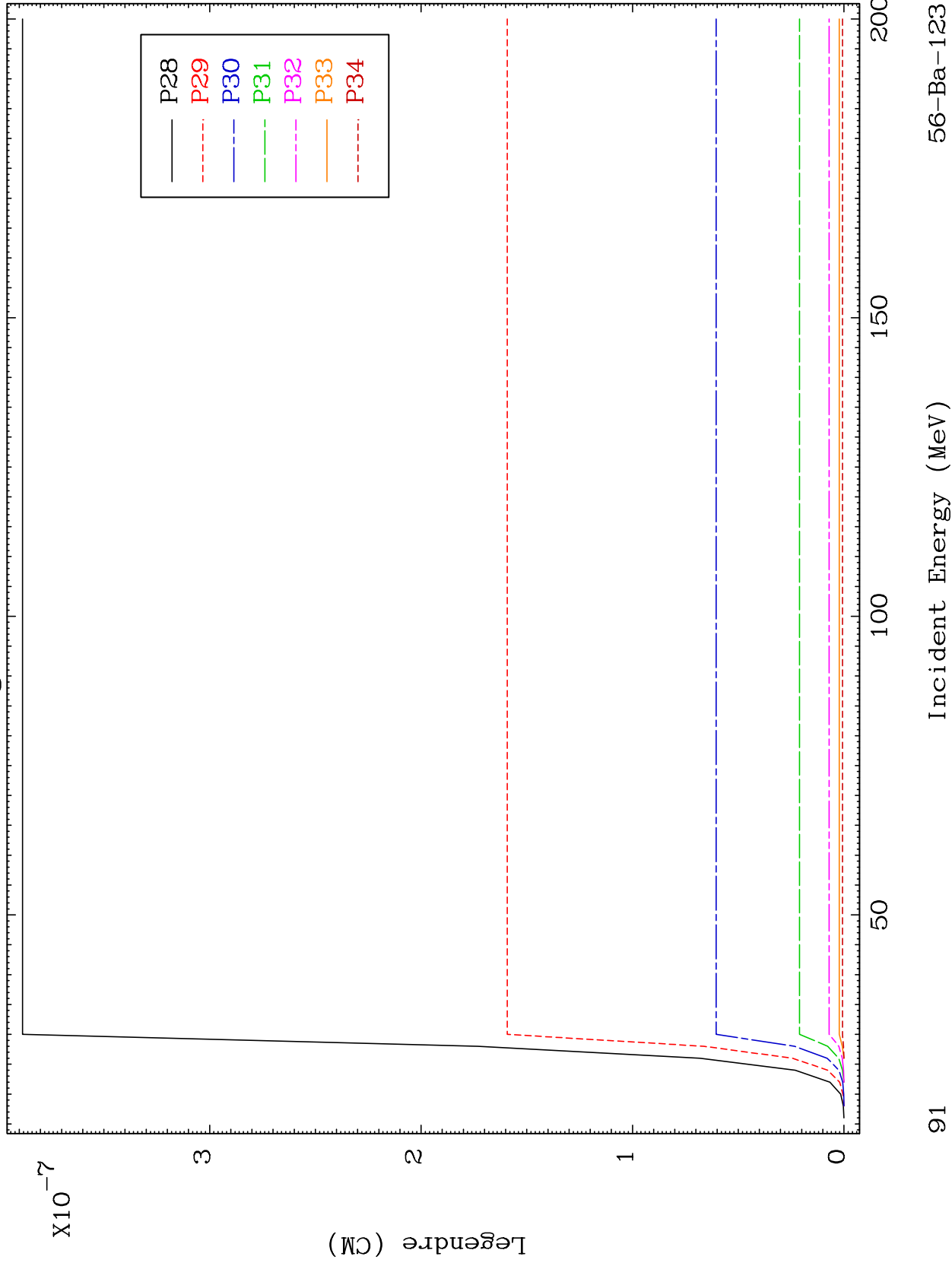
56-Ba-123



MAT 5604

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

56-Ba-123

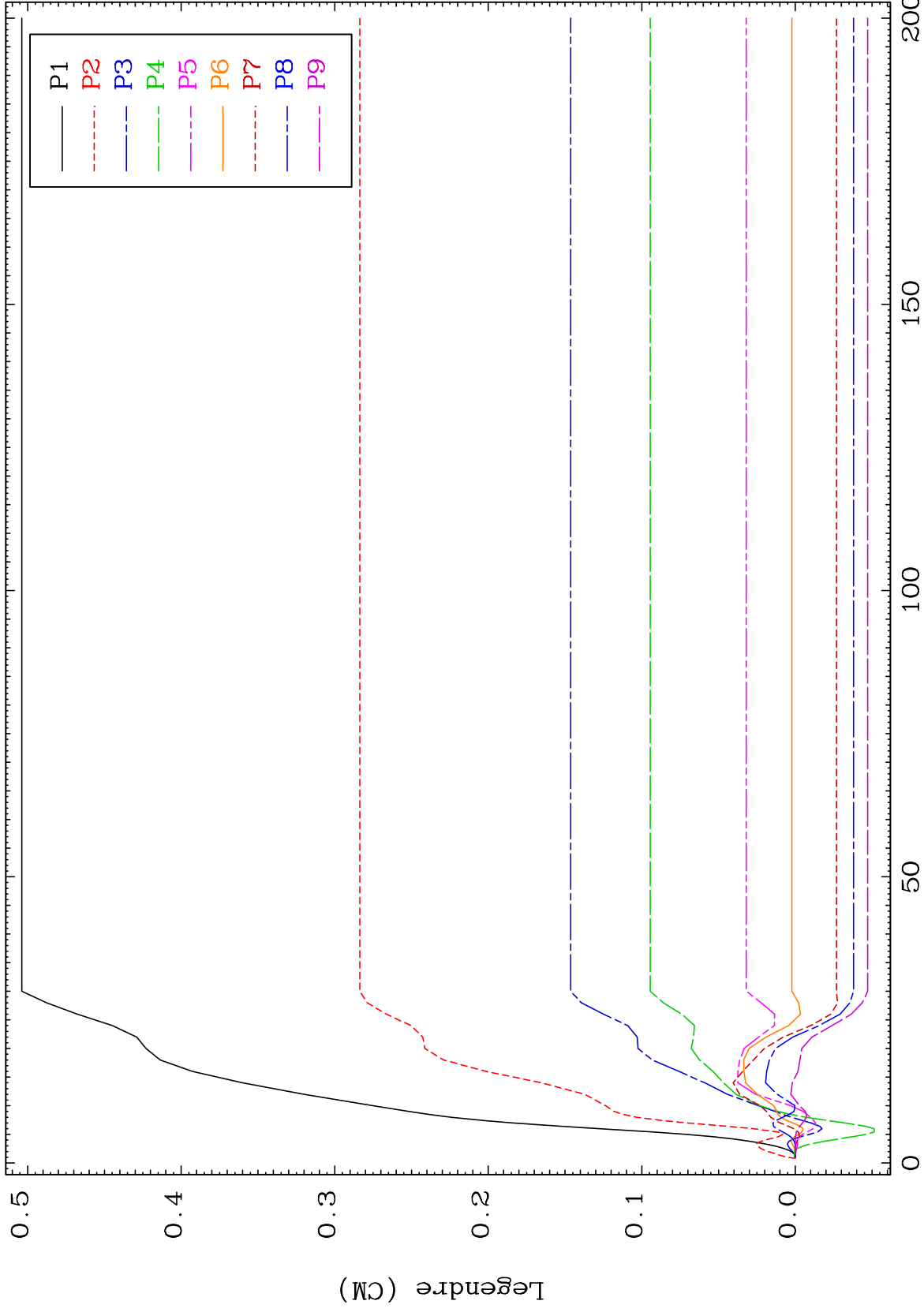


MAT 5604

MT= 69 (n,n') Level

56-Ba-123

Legendre Coefficients



92

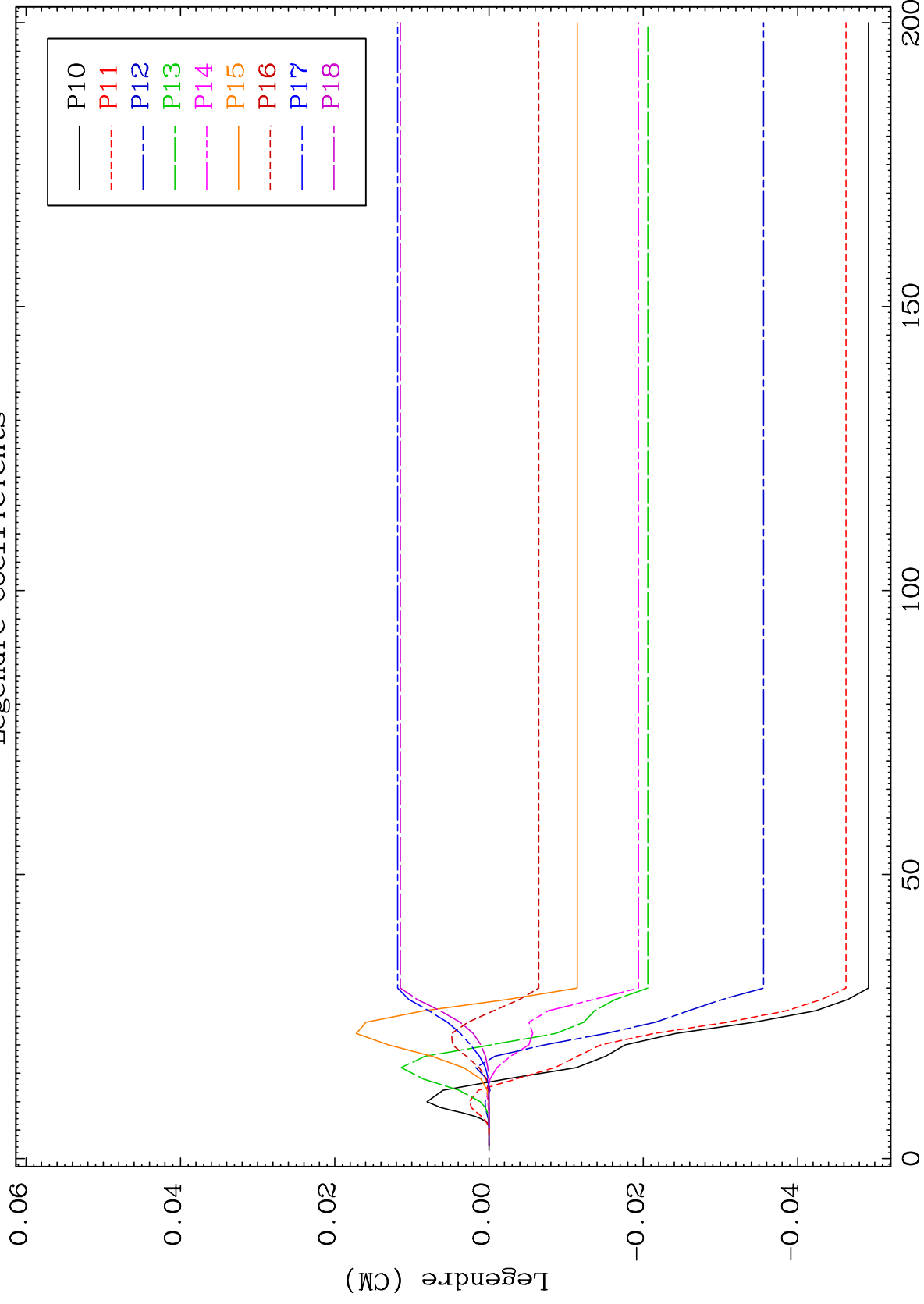
Incident Energy (MeV)

56-Ba-123

MAT 5604

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

56-Ba-123



93

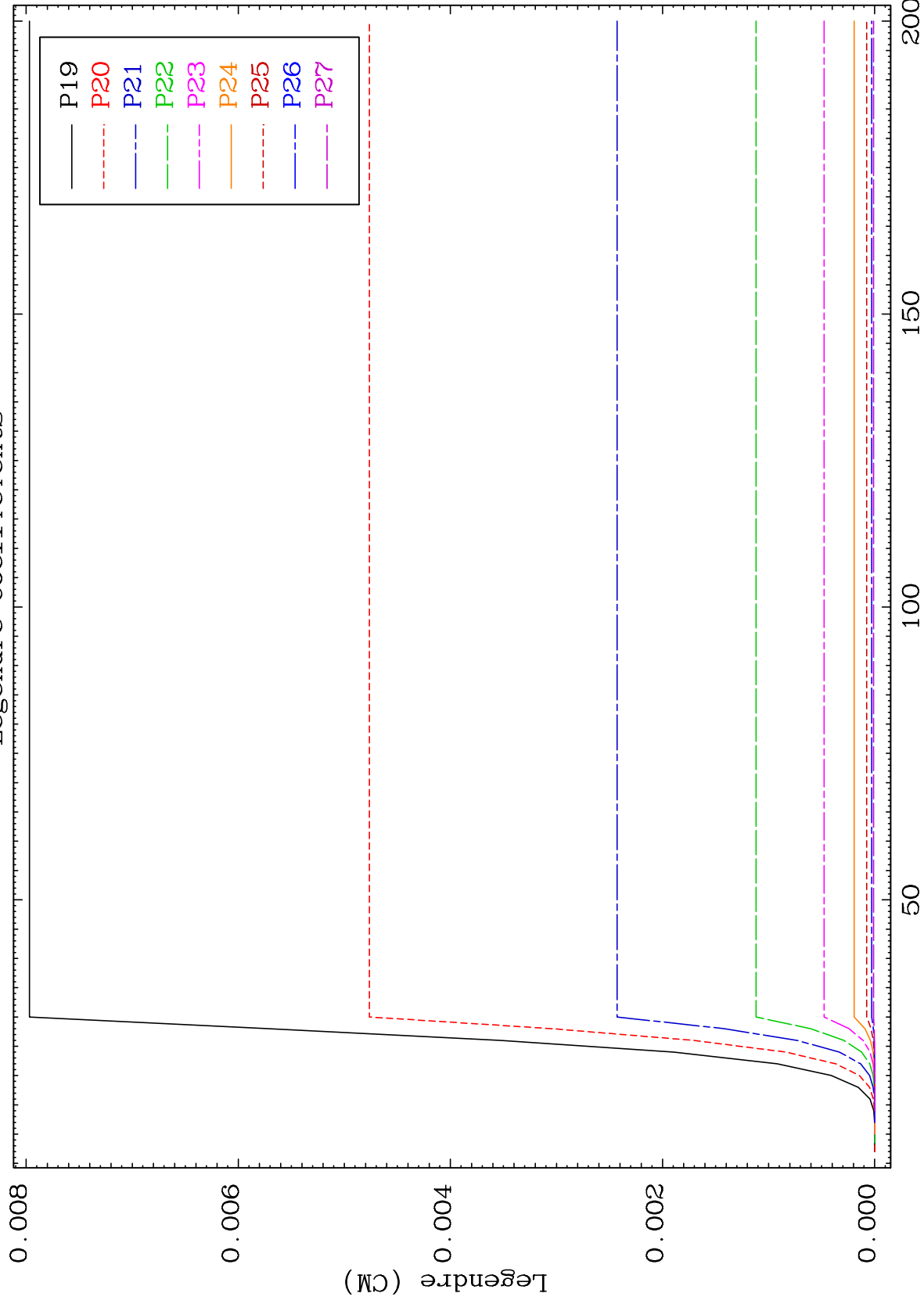
Incident Energy (MeV)

56-Ba-123

MAT 5604

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

56-Ba-123



94

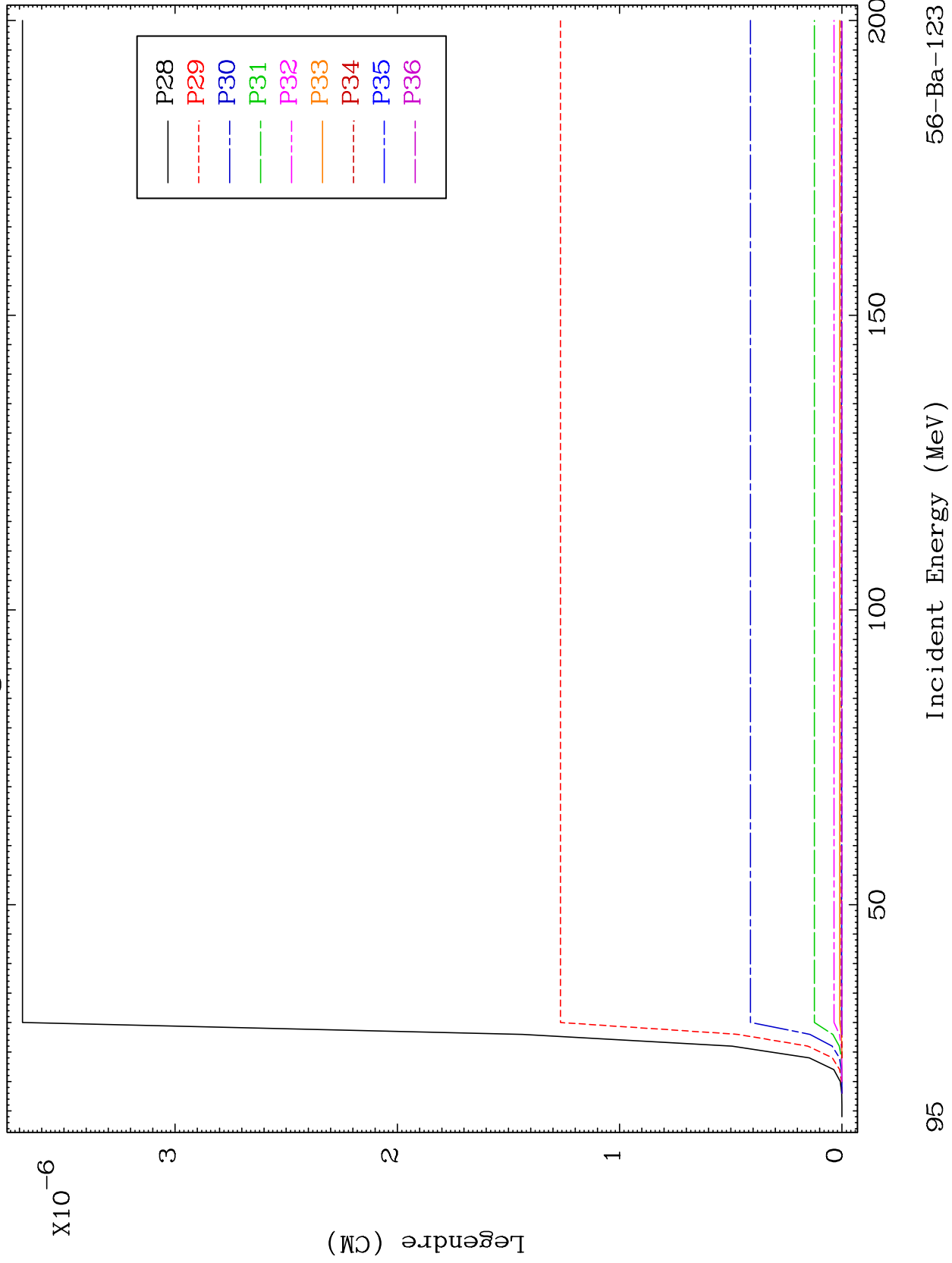
Incident Energy (MeV)

56-Ba-123

MAT 5604

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

56-Ba-123



95

Incident Energy (MeV)

56-Ba-123

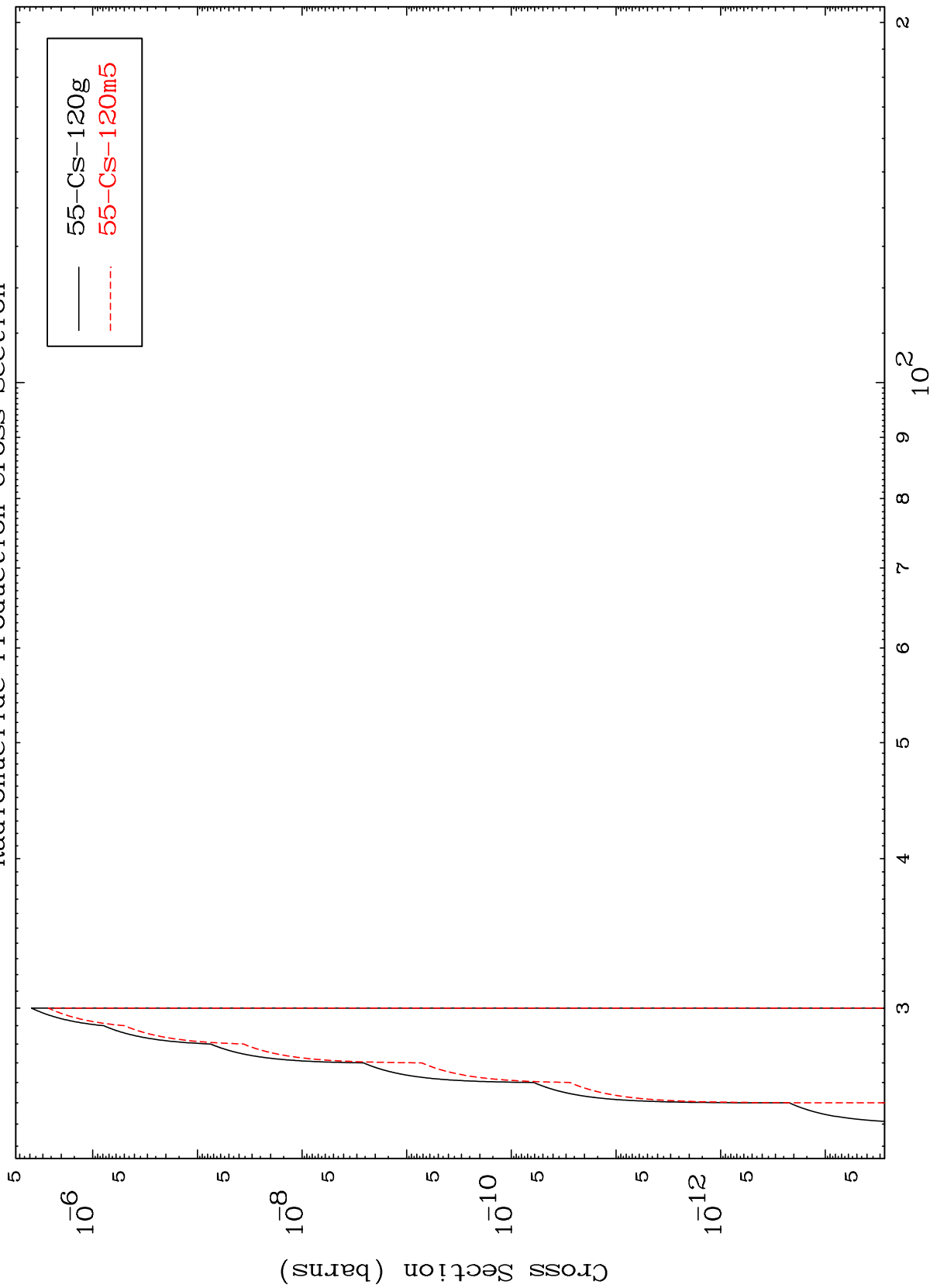


MAT 5604

(n,2n) d

56-Ba-123

Radionuclide Production Cross Section



96

Incident Energy (MeV)

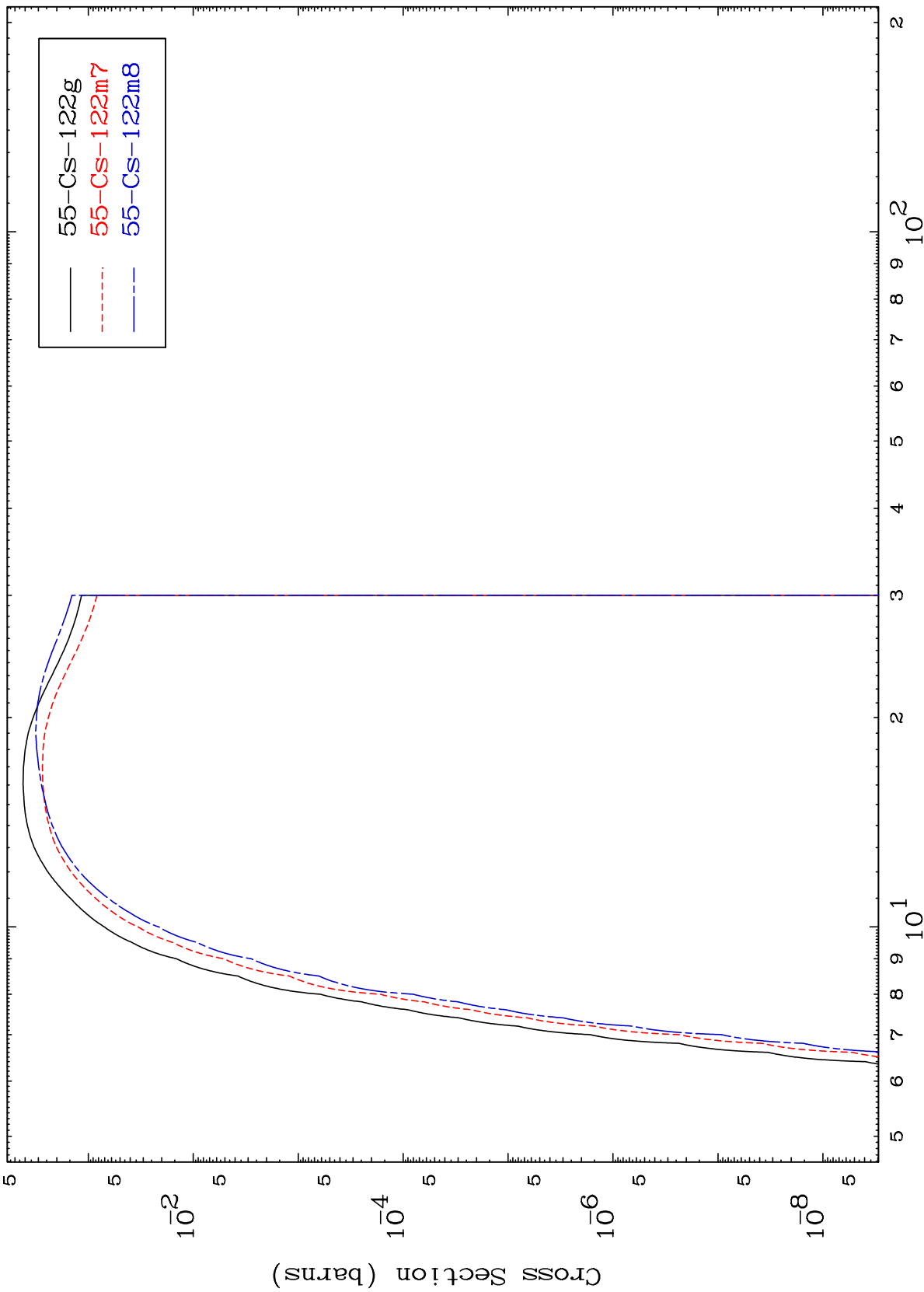
56-Ba-123

MAT 5604

(n,n') p

56-Ba-123

Radionuclide Production Cross Section



97

Incident Energy (MeV)

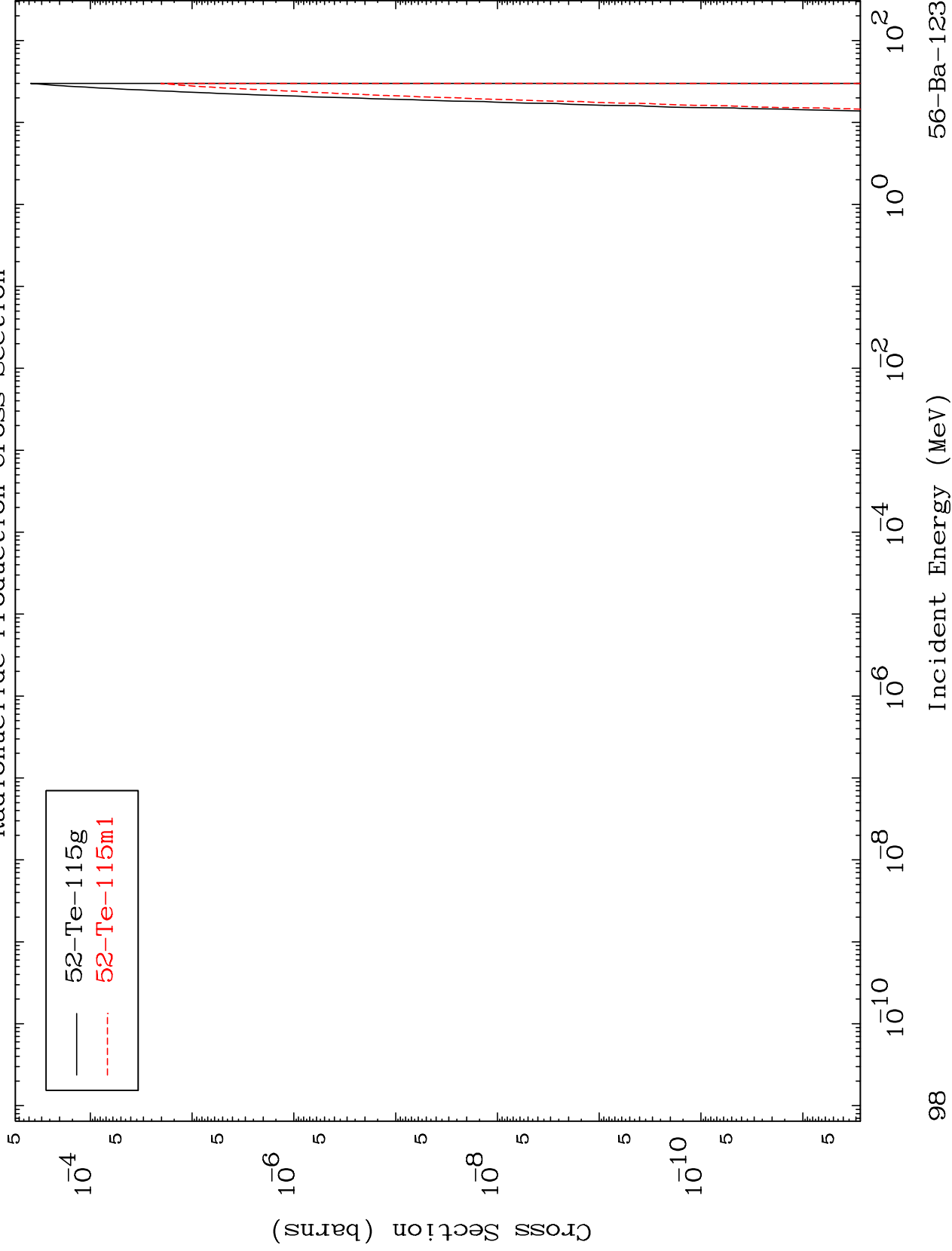
56-Ba-123

MAT 5604

(n,n') 2 $\alpha$

56-Ba-123

Radionuclide Production Cross Section



98

Incident Energy (MeV)

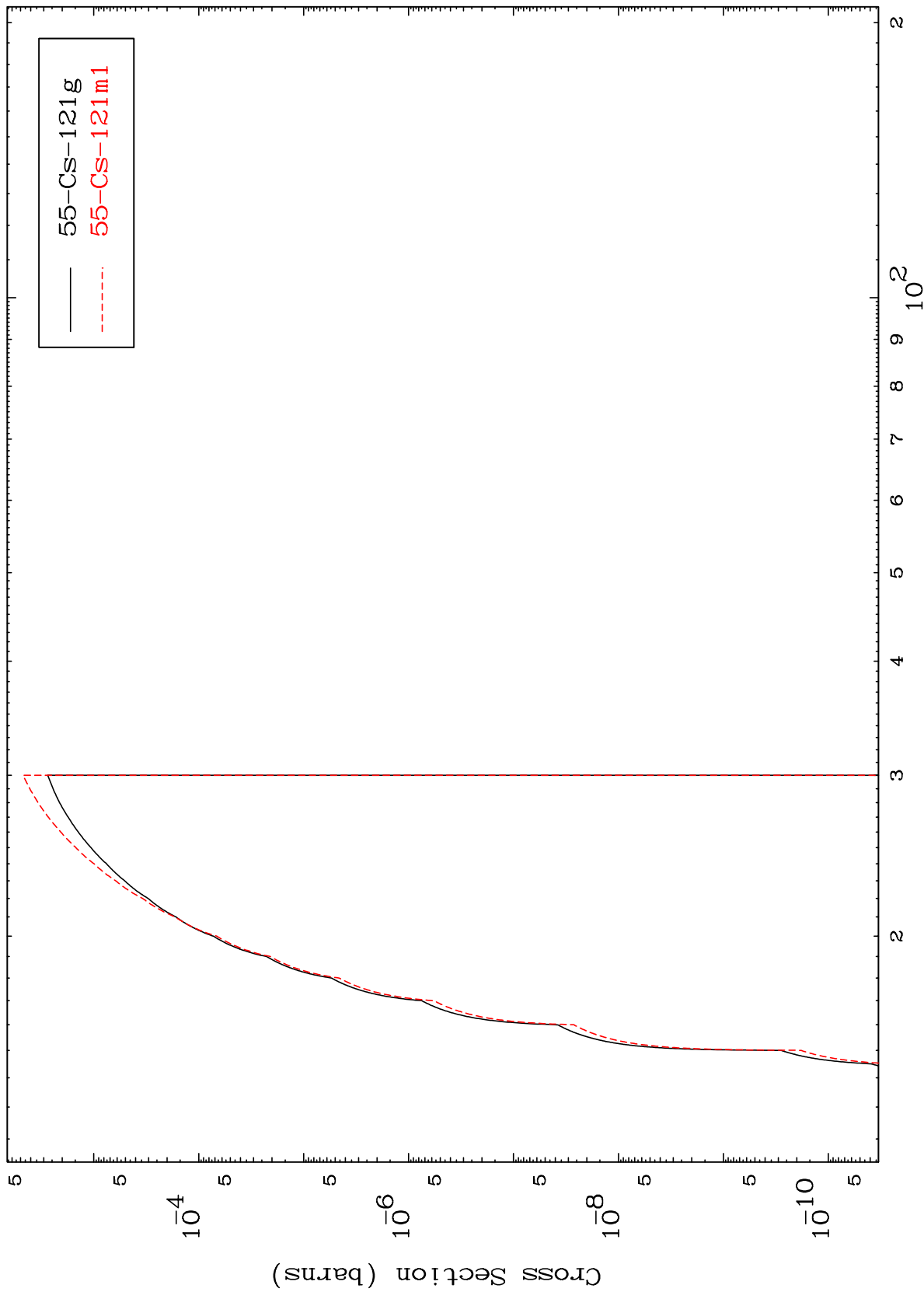
56-Ba-123

MAT 5604

(n,n') d

56-Ba-123

Radionuclide Production Cross Section



99

Incident Energy (MeV)

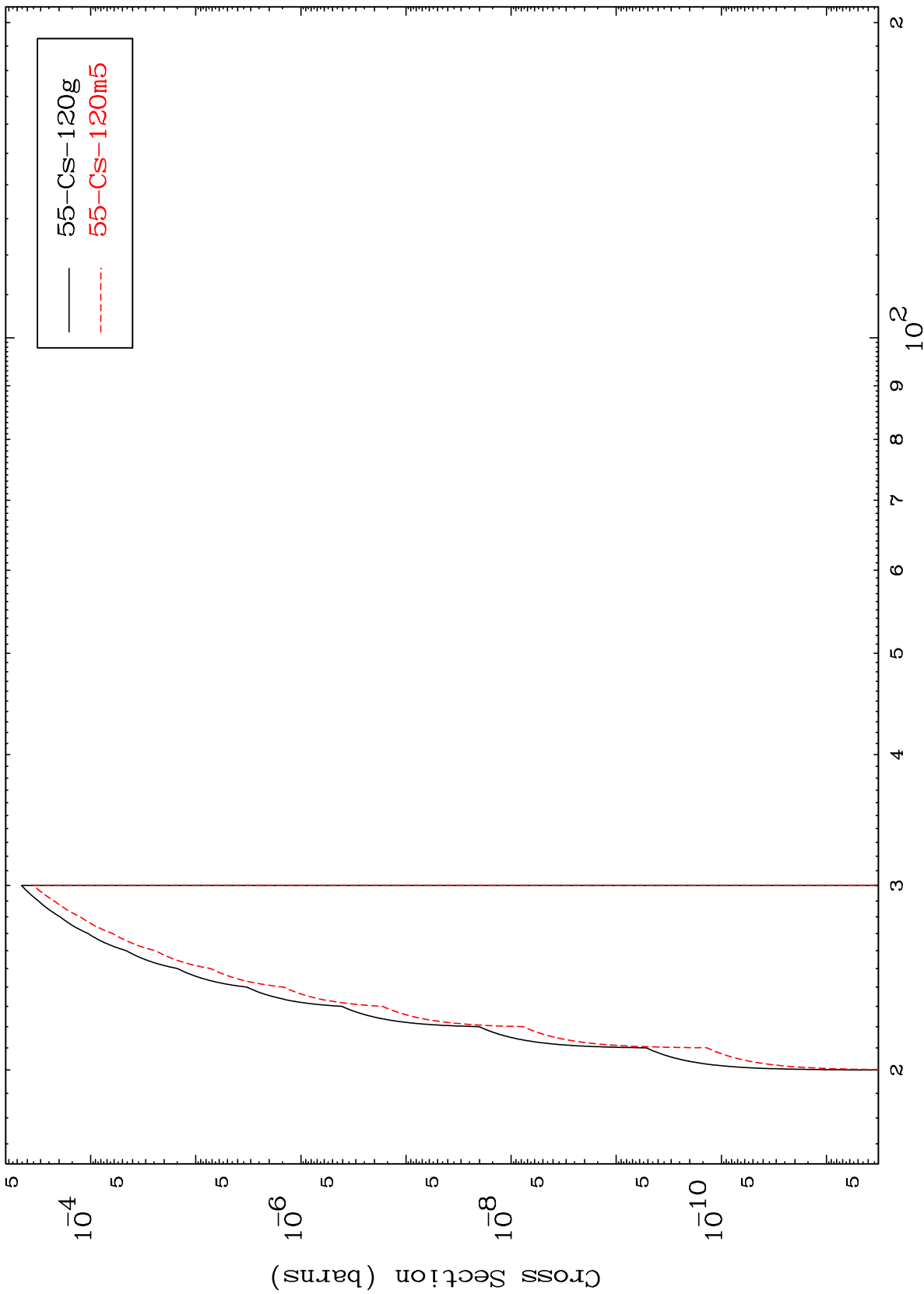
56-Ba-123

MAT 5604

(n,n') t

56-Ba-123

Radionuclide Production Cross Section



100

Incident Energy (MeV)

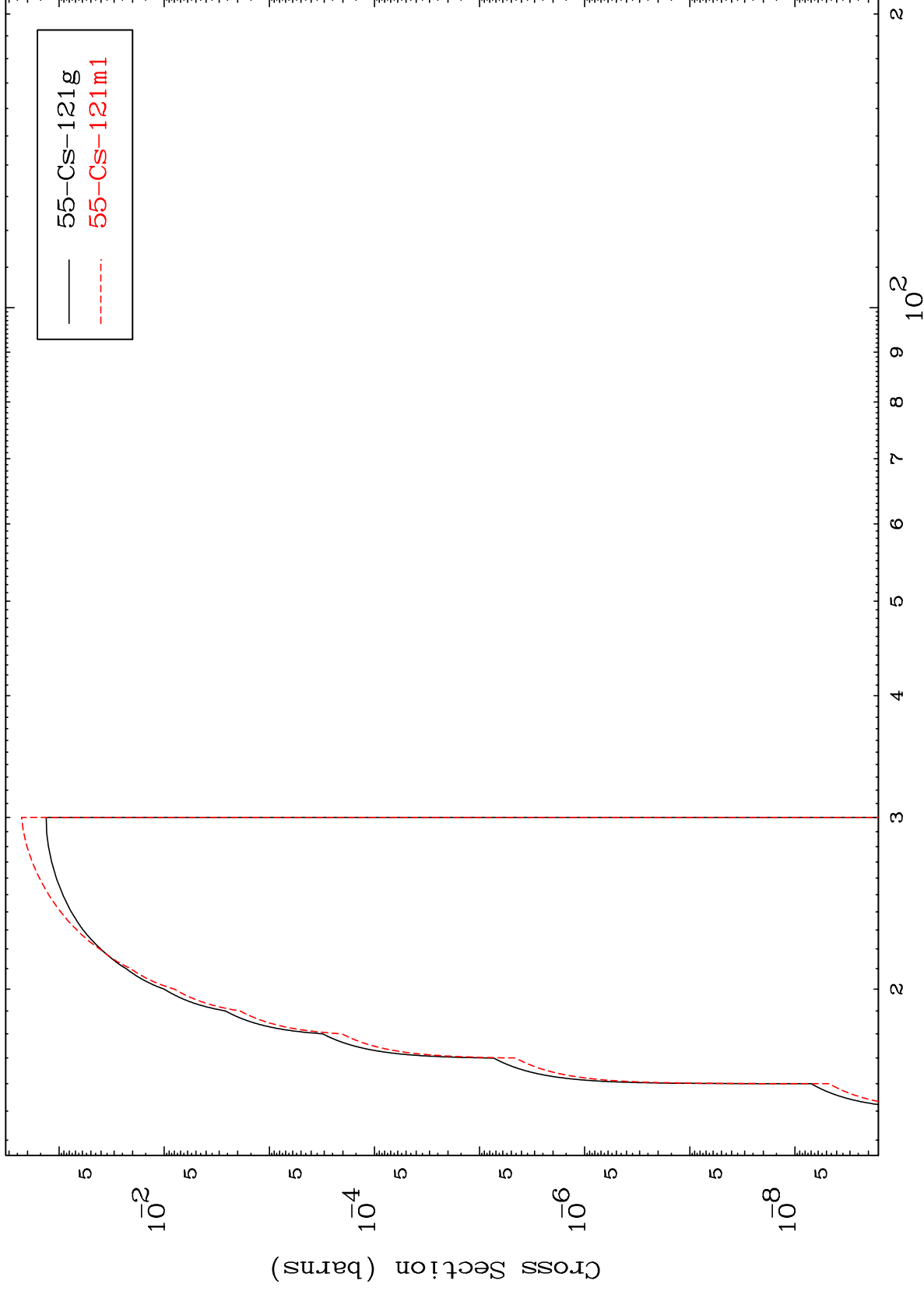
56-Ba-123

MAT 5604

(n,2n) p

56-Ba-123

Radionuclide Production Cross Section



101

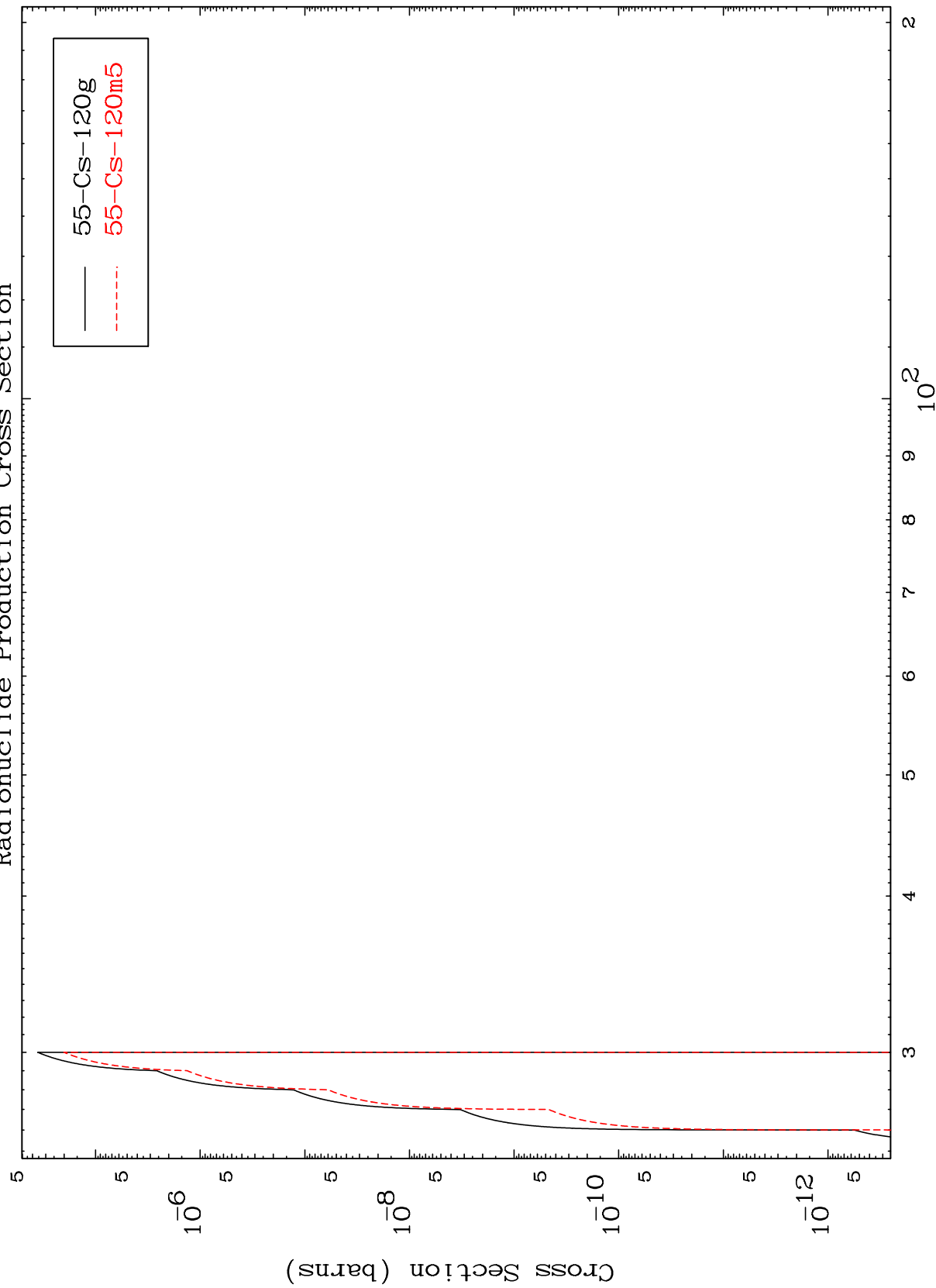
Incident Energy (MeV)

56-Ba-123

MAT 5604

56-Ba-123

(n,3n) p  
Radionuclide Production Cross Section



102

56-Ba-123

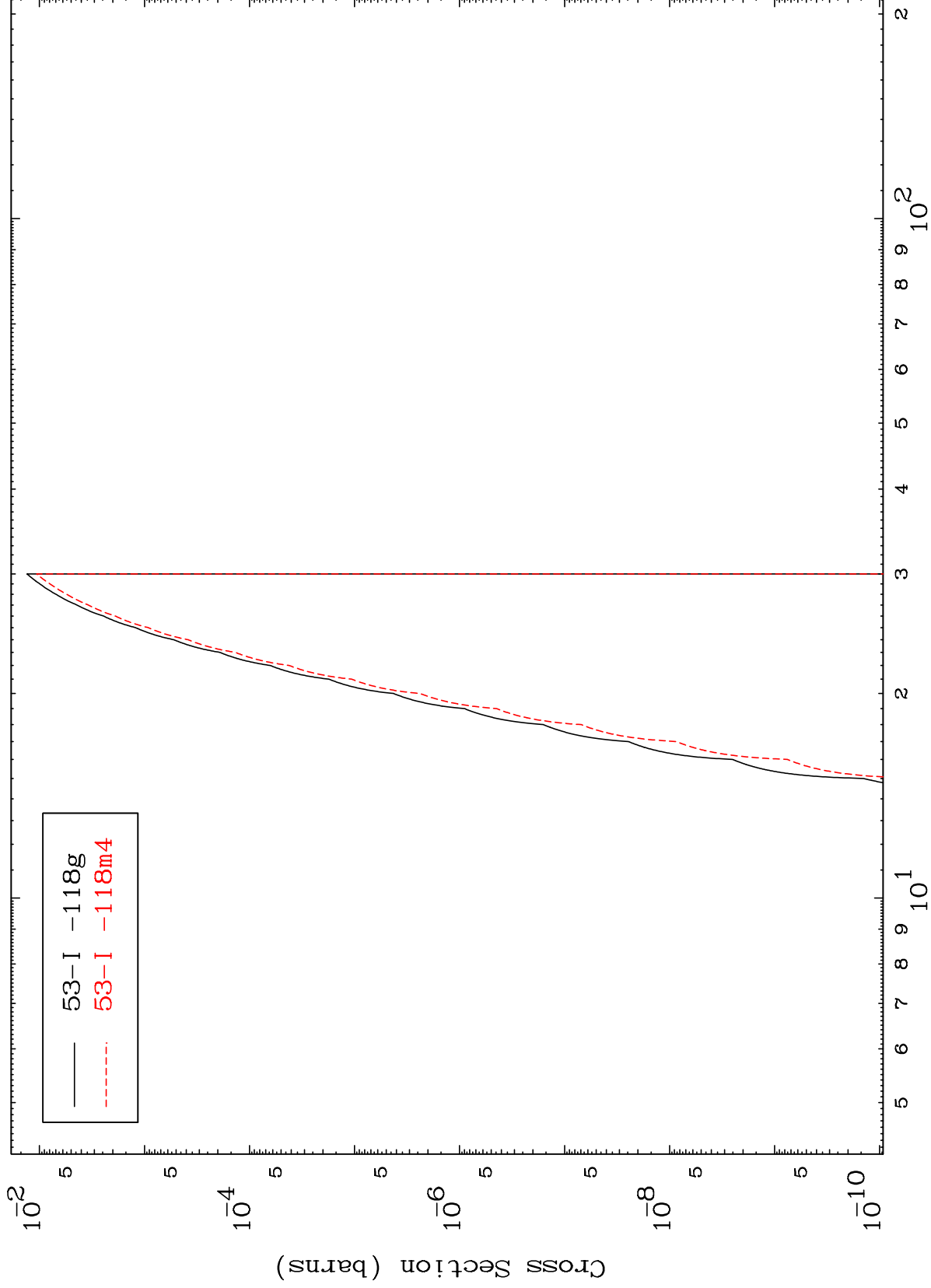
Incident Energy (MeV)

MAT 5604

(n,n') p  $\alpha$

56-Ba-123

Radionuclide Production Cross Section



103

Incident Energy (MeV)

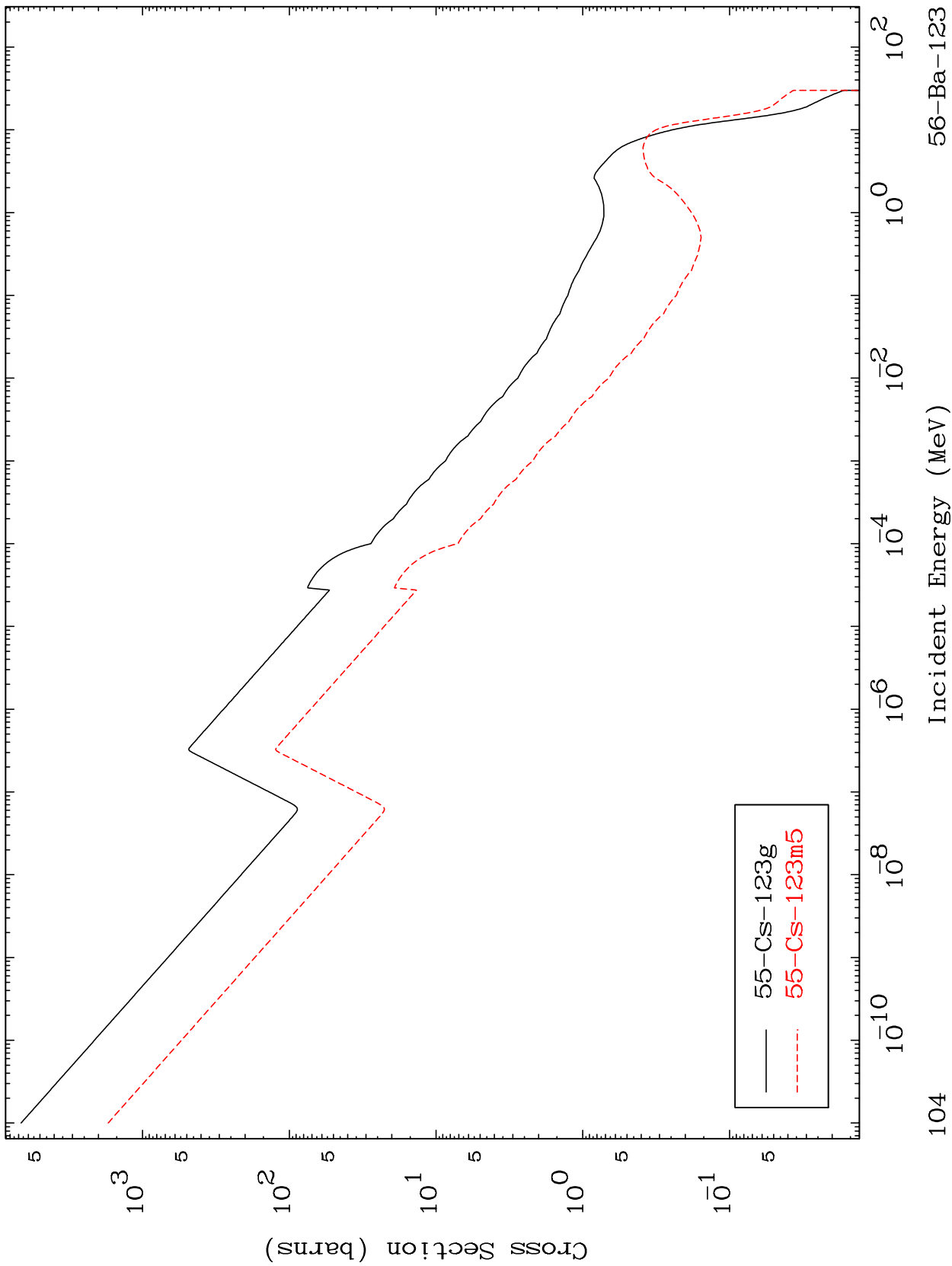
56-Ba-123



MAT 5604

56-Ba-123

(n,p)  
Radionuclide Production Cross Section



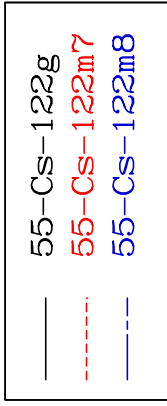
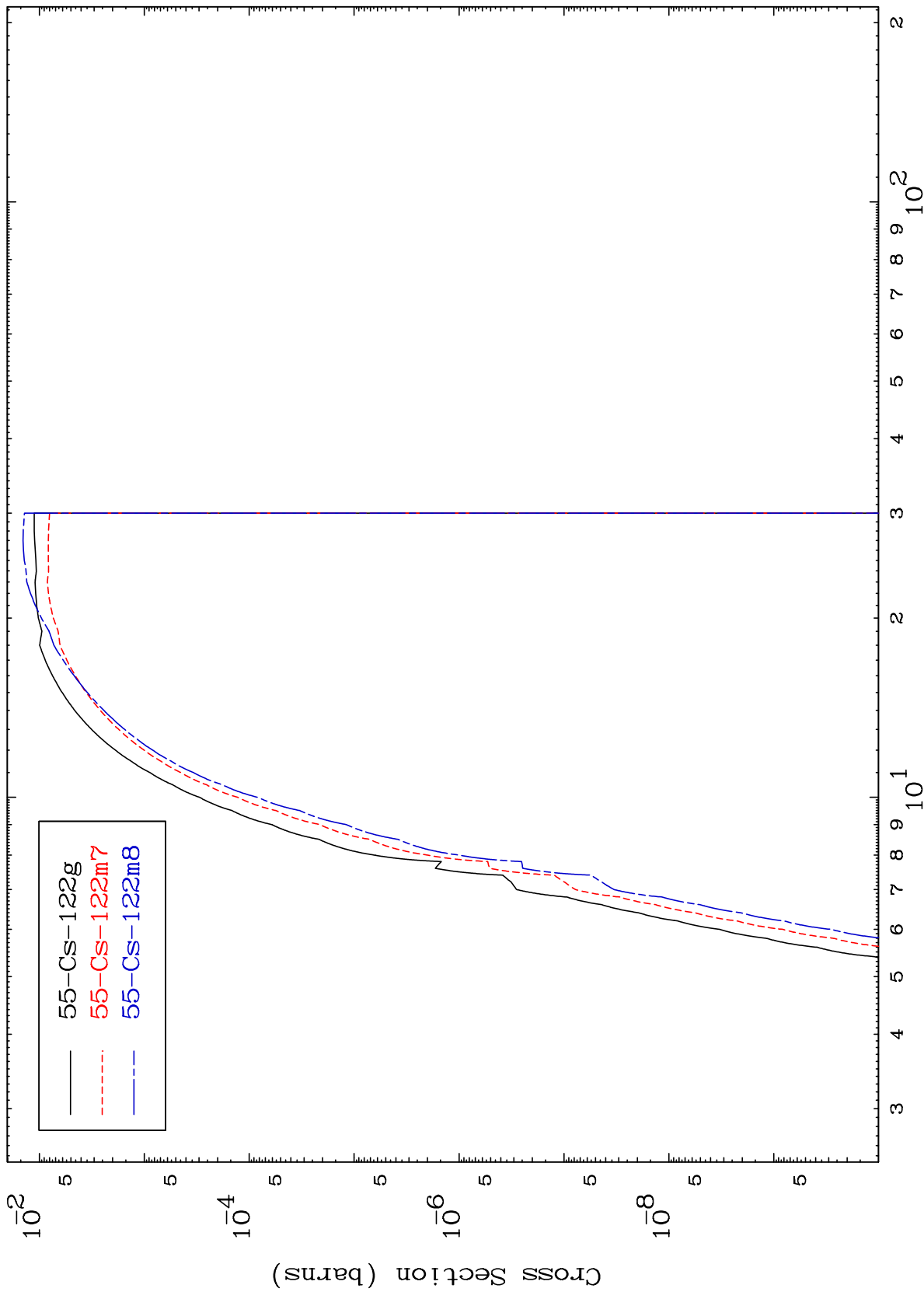
104

MAT 5604

(n,d)

56-Ba-123

Radionuclide Production Cross Section



105

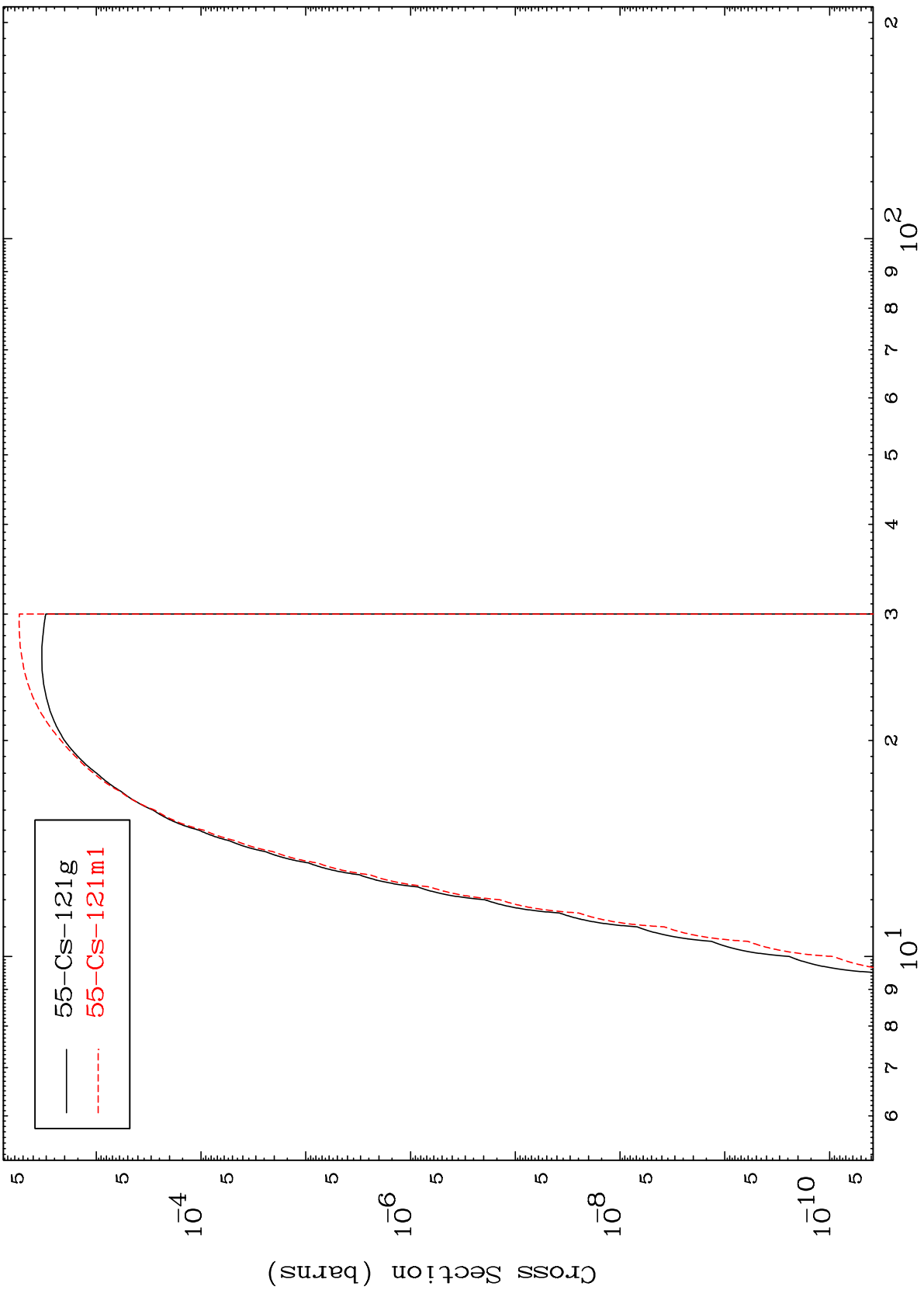
Incident Energy (MeV)

56-Ba-123

MAT 5604

56-Ba-123

(n, t)  
Radionuclide Production Cross Section



55-Cs-121g  
55-Cs-121m1

56-Ba-123

Incident Energy (MeV)

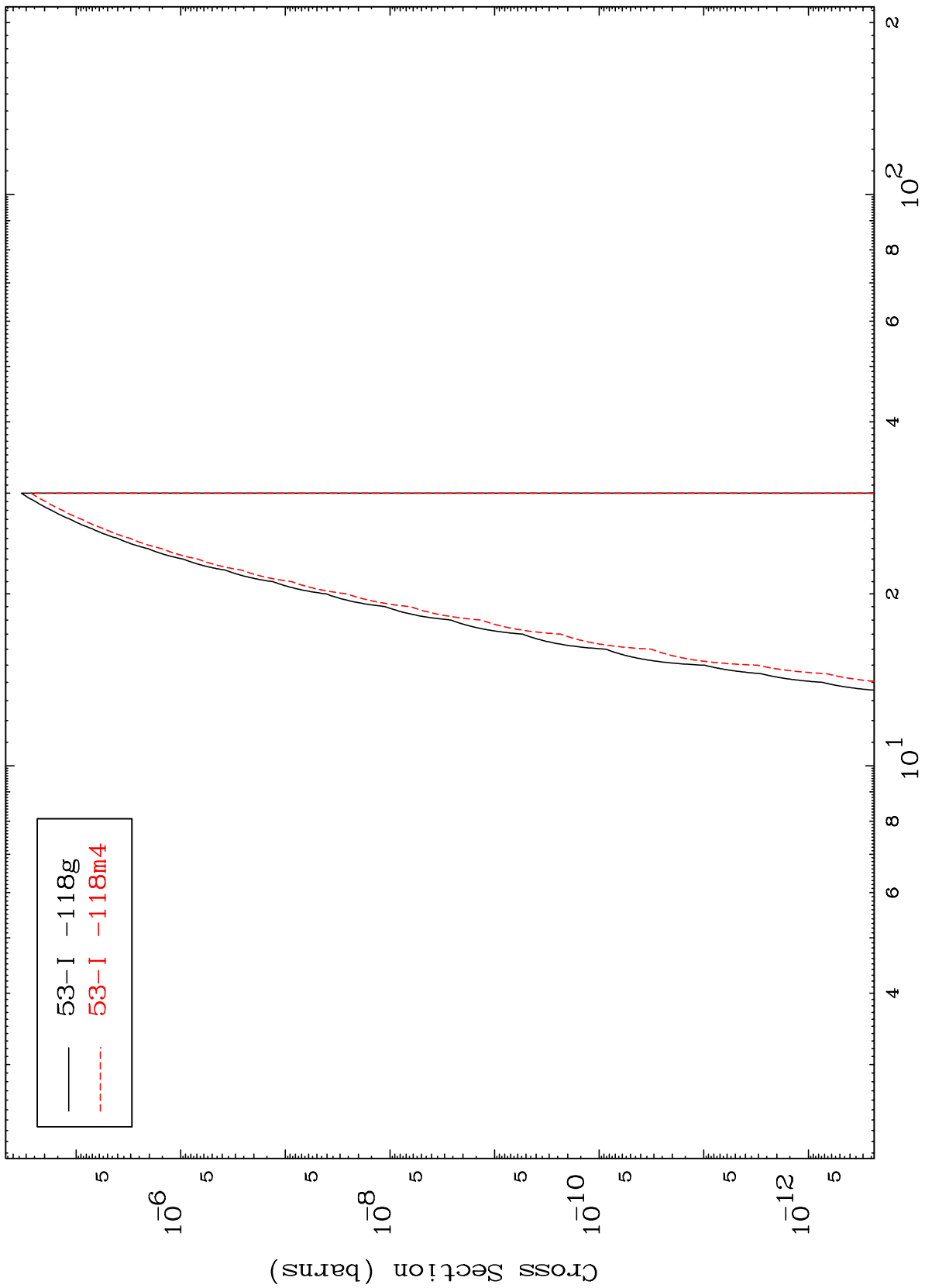
106

MAT 5604

(n,d)  $\alpha$

56-Ba-123

Radionuclide Production Cross Section



53-I -118g  
53-I -118m4

107

Incident Energy (MeV)

56-Ba-123