

Program EVALPLOT
(Version 2015-2)

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:home.comcast.net/~redcullen1

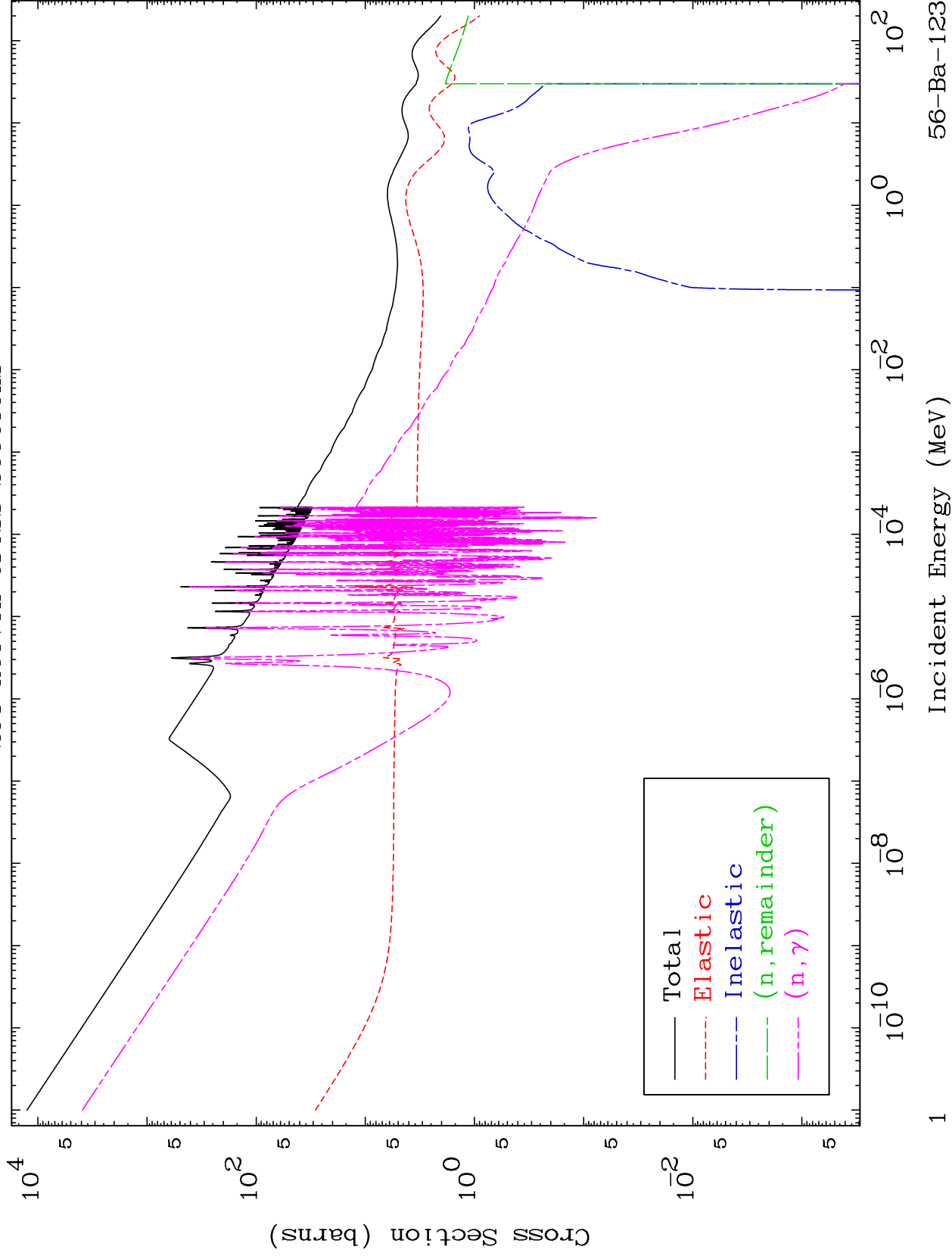
Press Mouse Button to Start

MAT 5604

Major

293 Kelvin Cross Sections

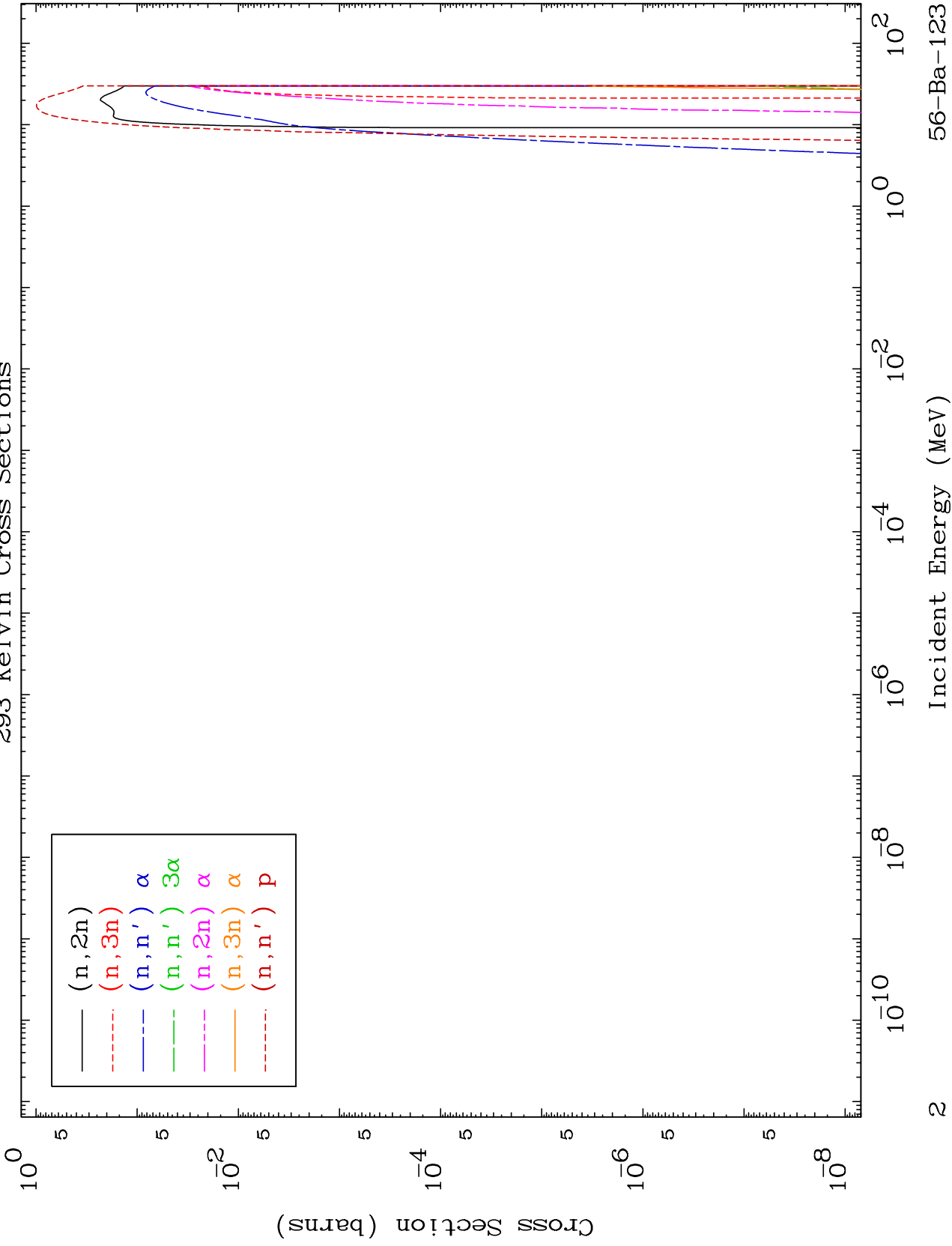
56-Ba-123



MAT 5604

Neutron Production
293 Kelvin Cross Sections

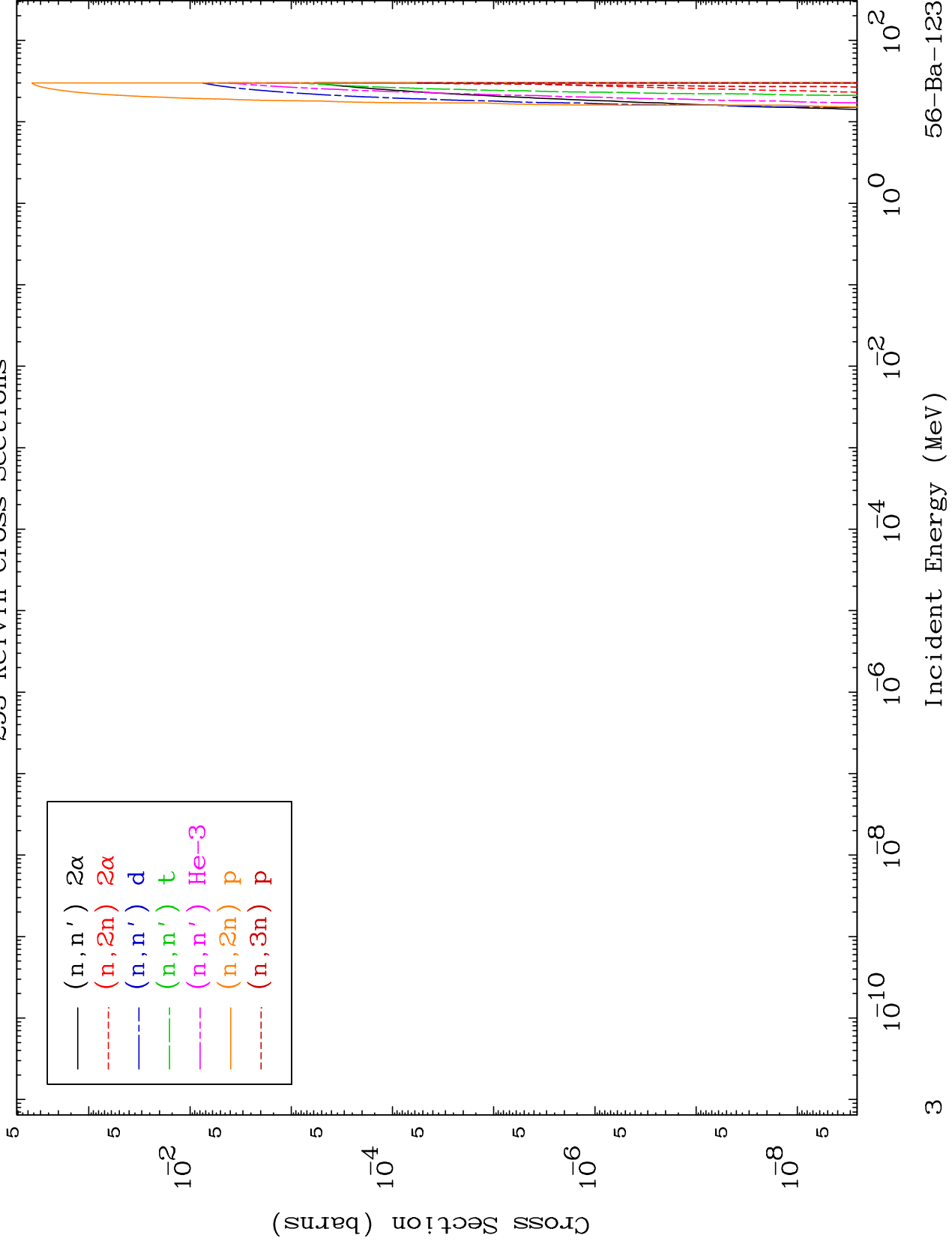
56-Ba-123



MAT 5604

Neutron Production
293 Kelvin Cross Sections

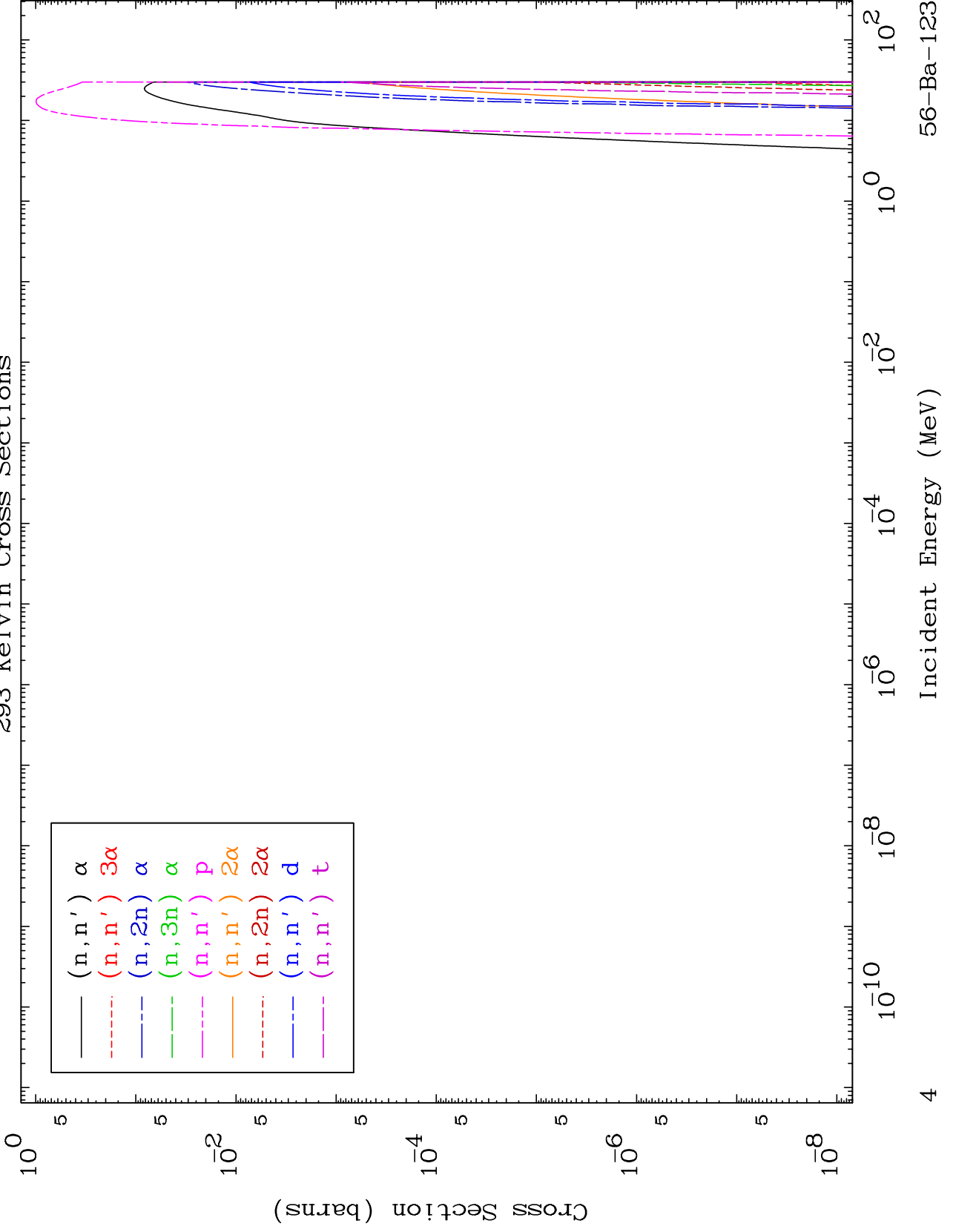
56-Ba-123



MAT 5604

Charged Particle
293 Kelvin Cross Sections

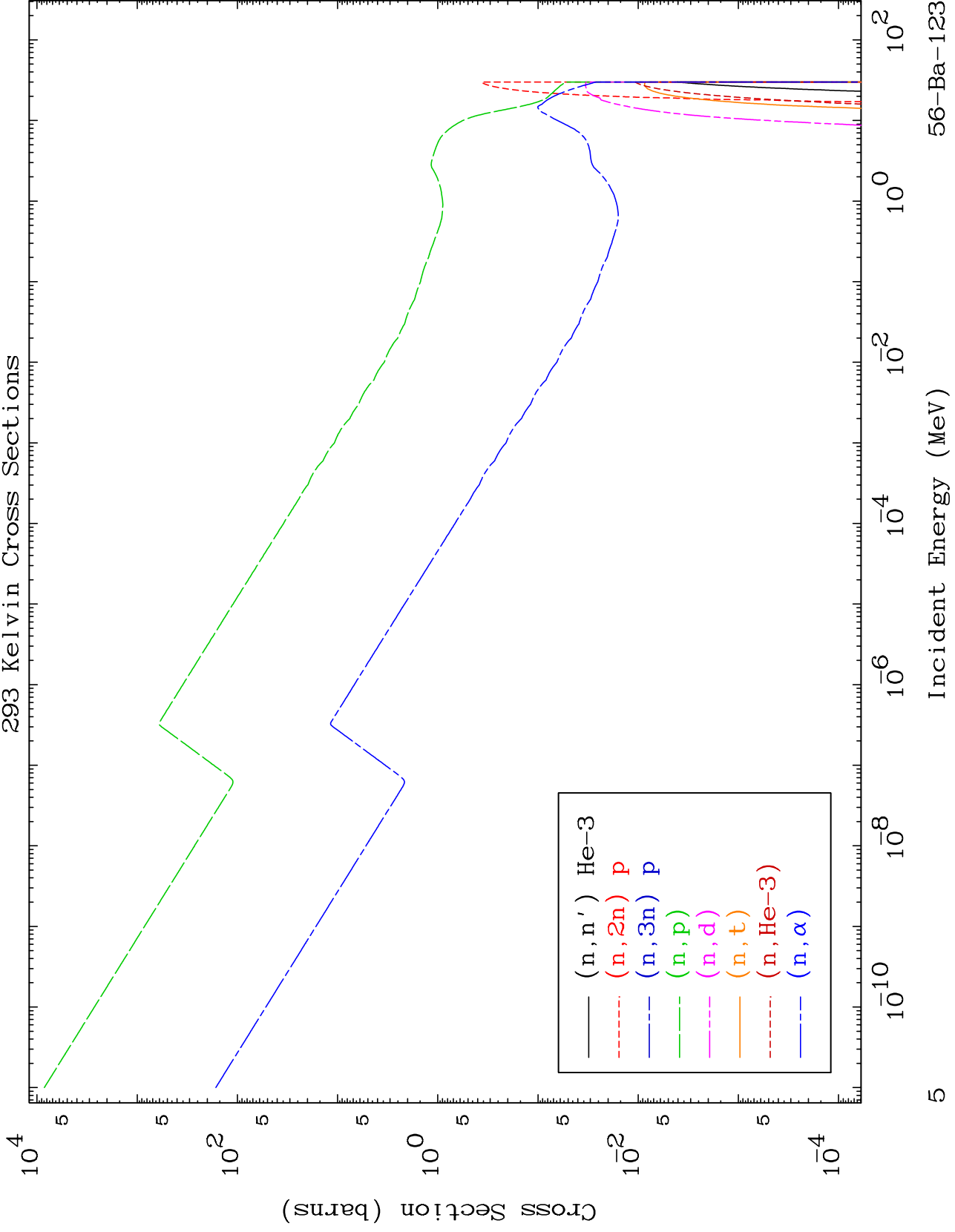
56-Ba-123



MAT 5604

Charged Particle
293 Kelvin Cross Sections

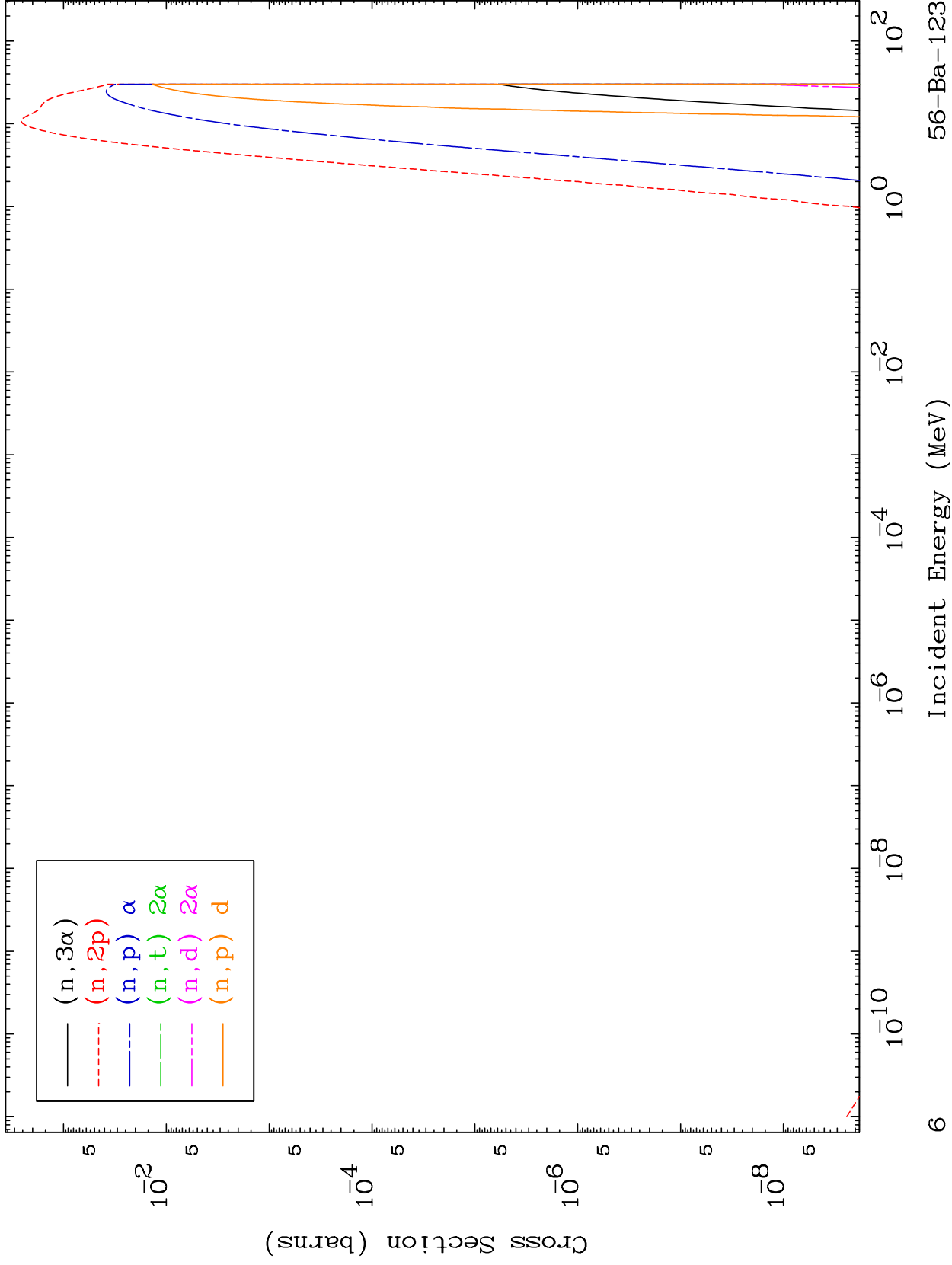
56-Ba-123



MAT 5604

Charged Particle
293 Kelvin Cross Sections

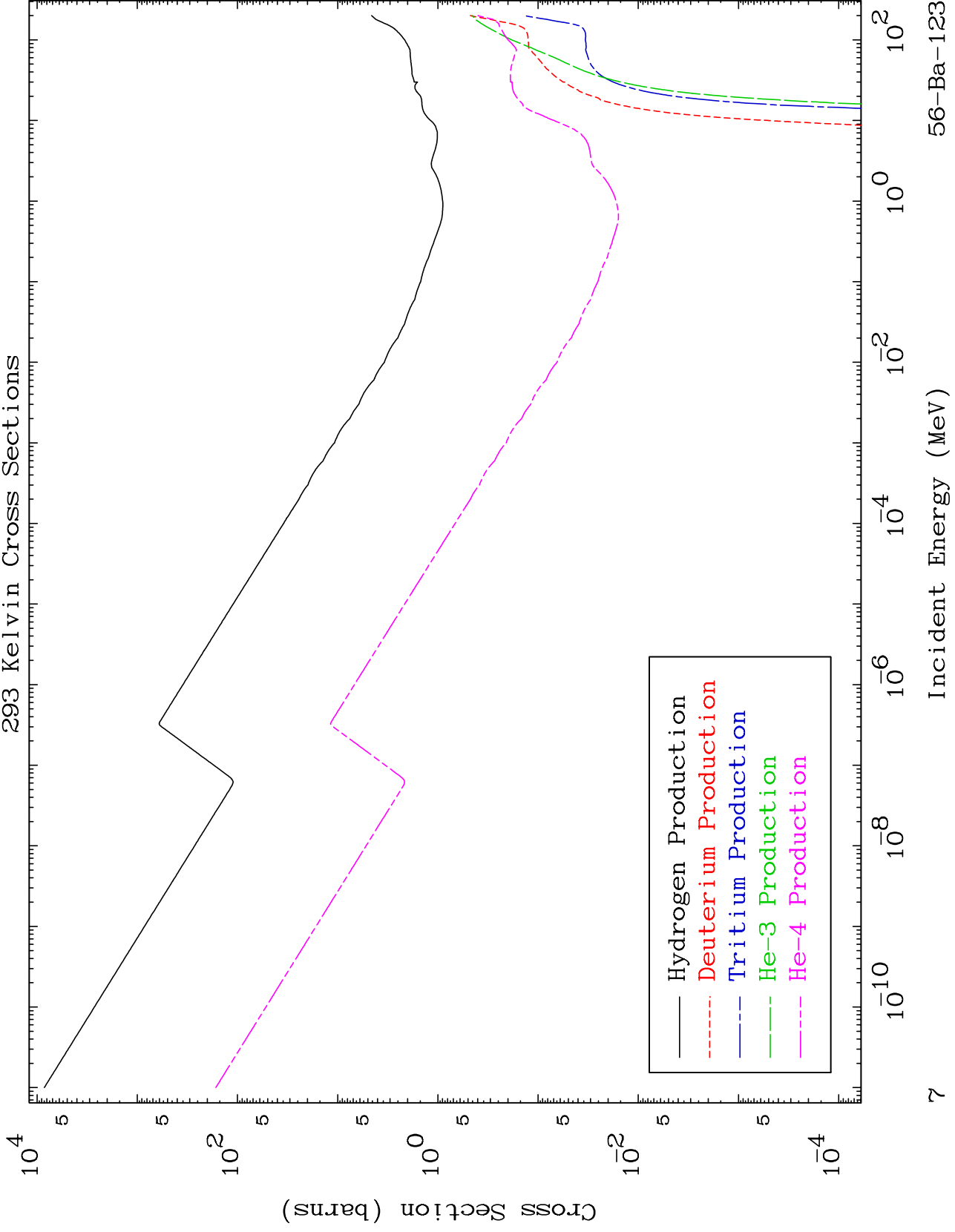
56-Ba-123



MAT 5604

Particle Production
293 Kelvin Cross Sections

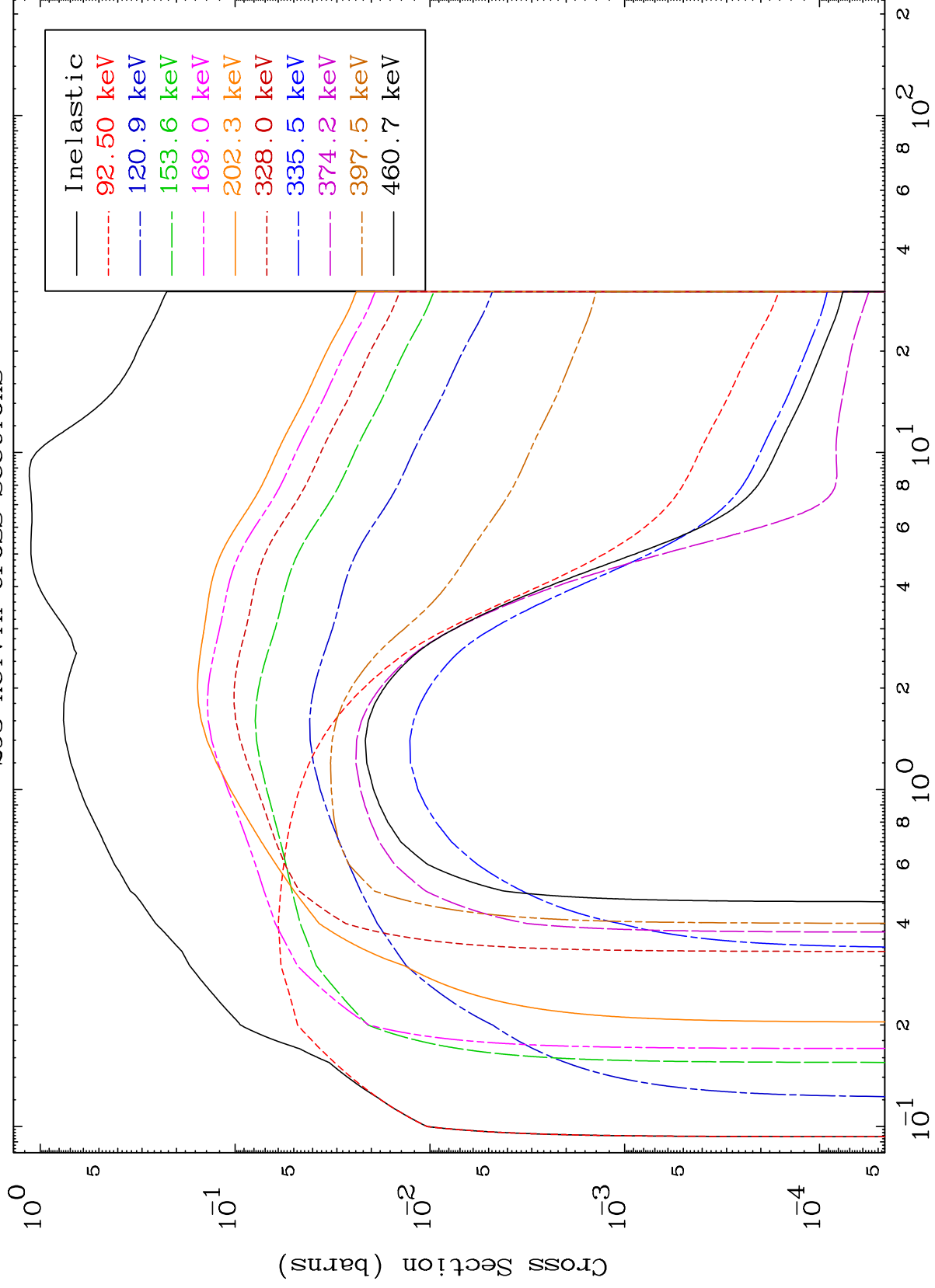
56-Ba-123



MAT 5604

(n,n') Level
293 Kelvin Cross Sections

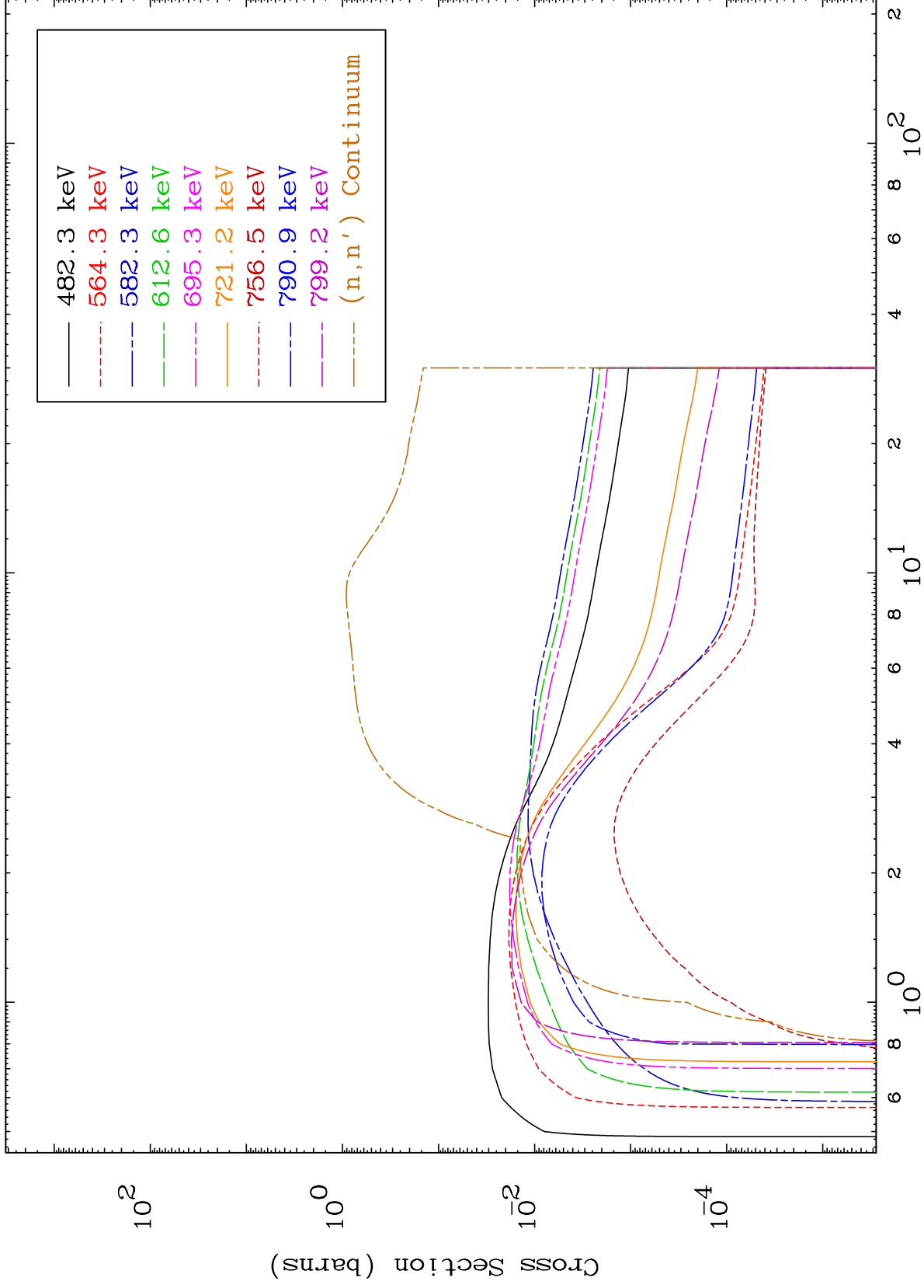
56-Ba-123

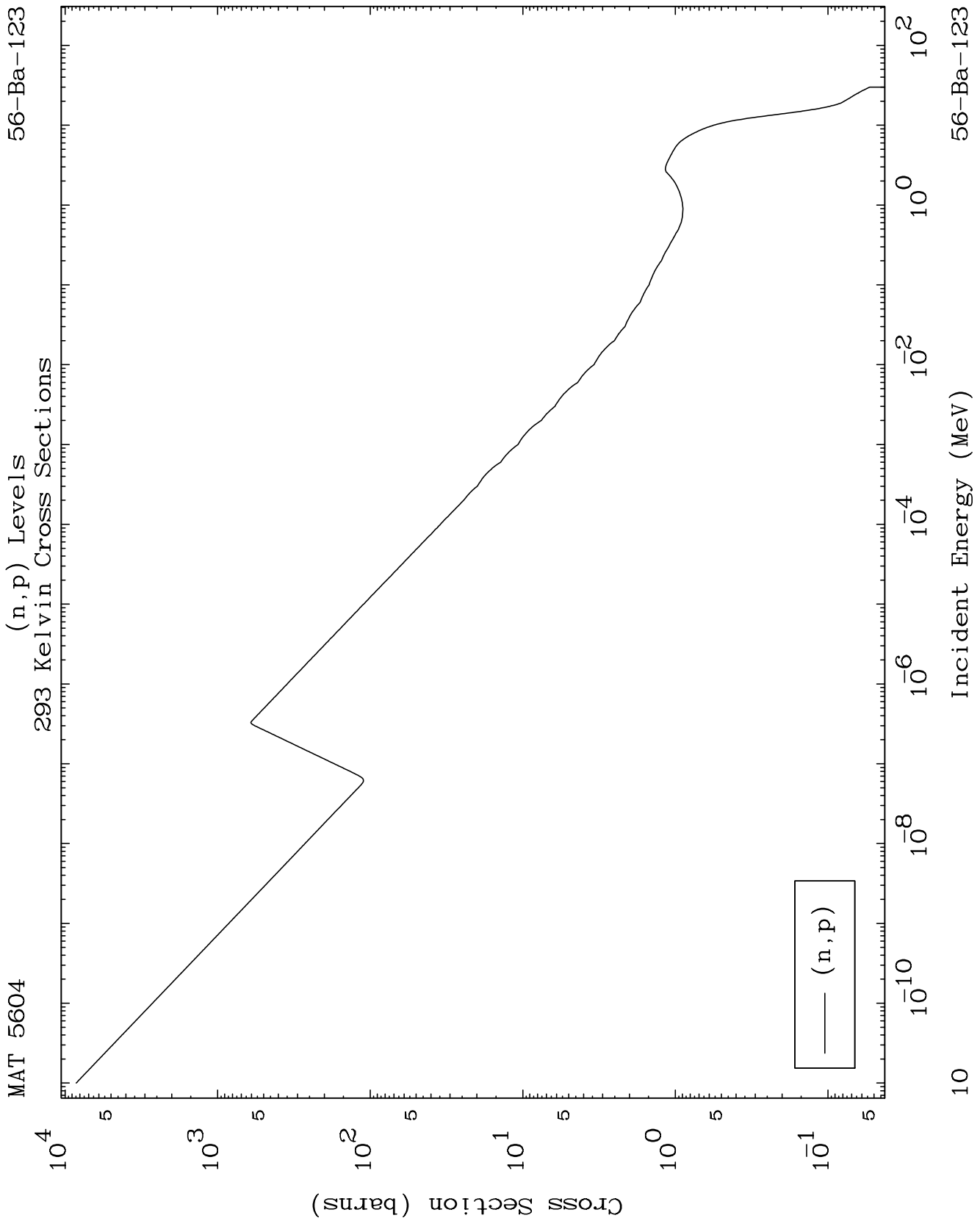


Incident Energy (MeV)

56-Ba-123

8

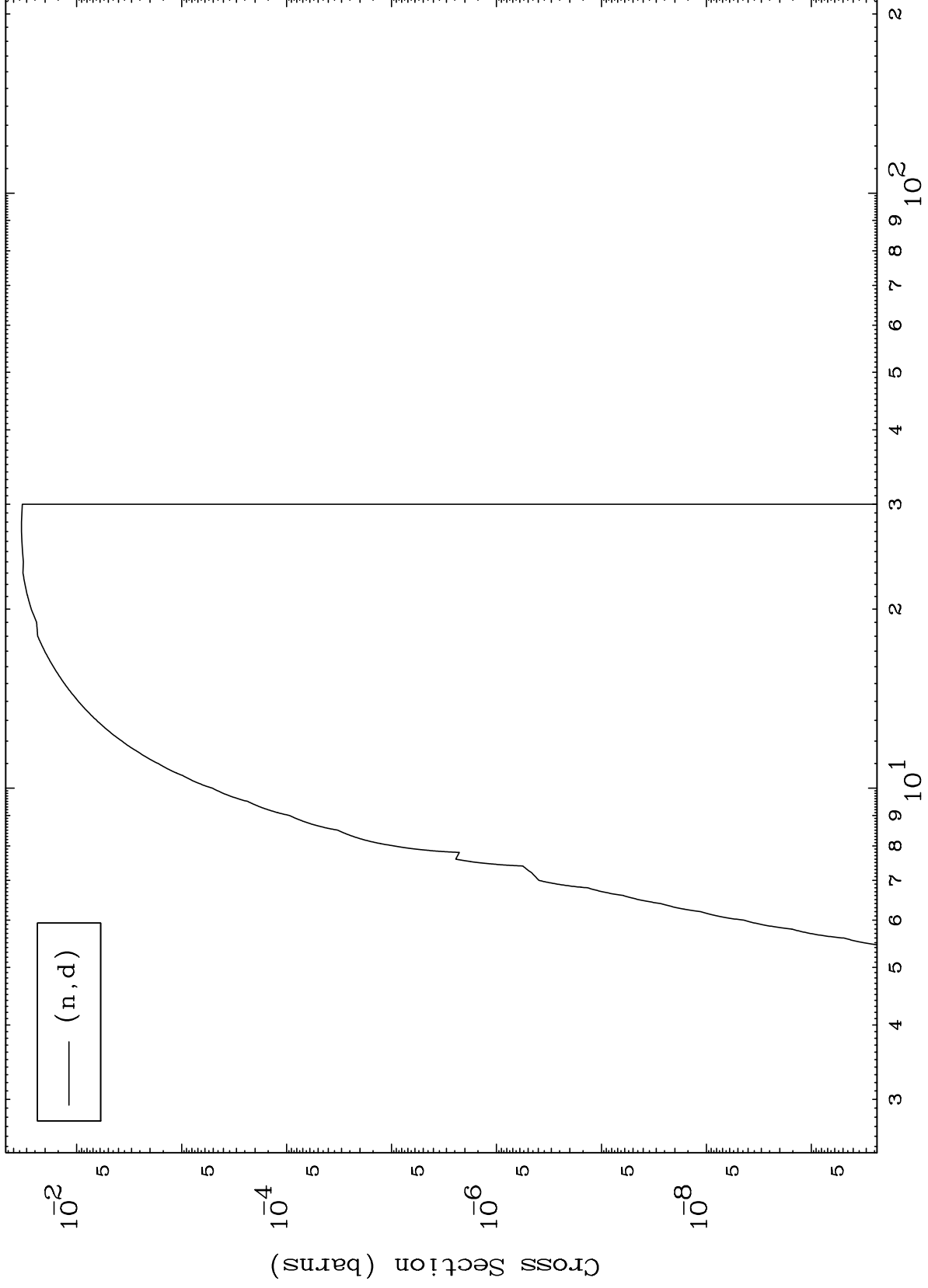




MAT 5604

(n,d) Levels
293 Kelvin Cross Sections

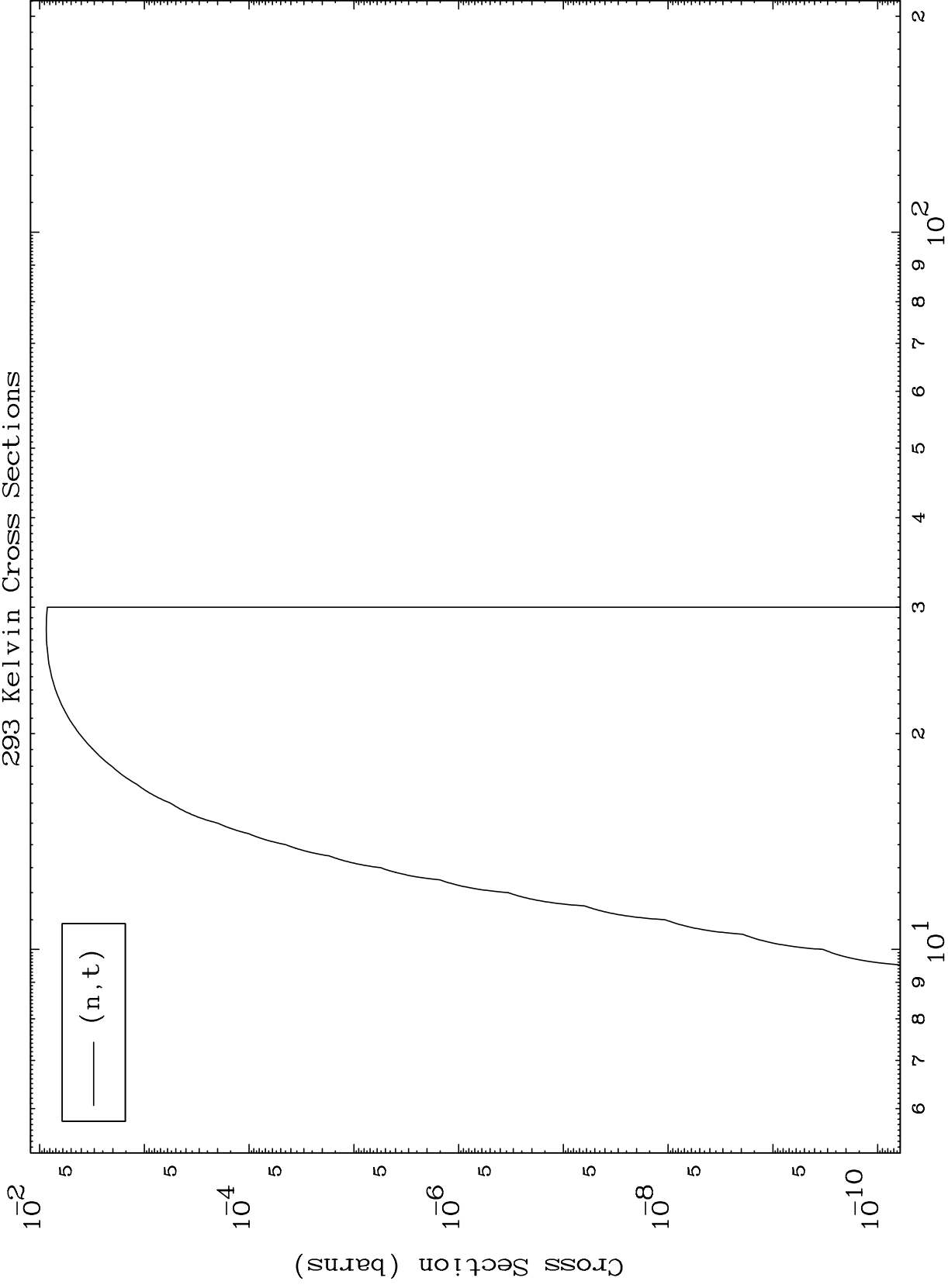
56-Ba-123



MAT 5604

(n,t) Levels
293 Kelvin Cross Sections

56-Ba-123



12

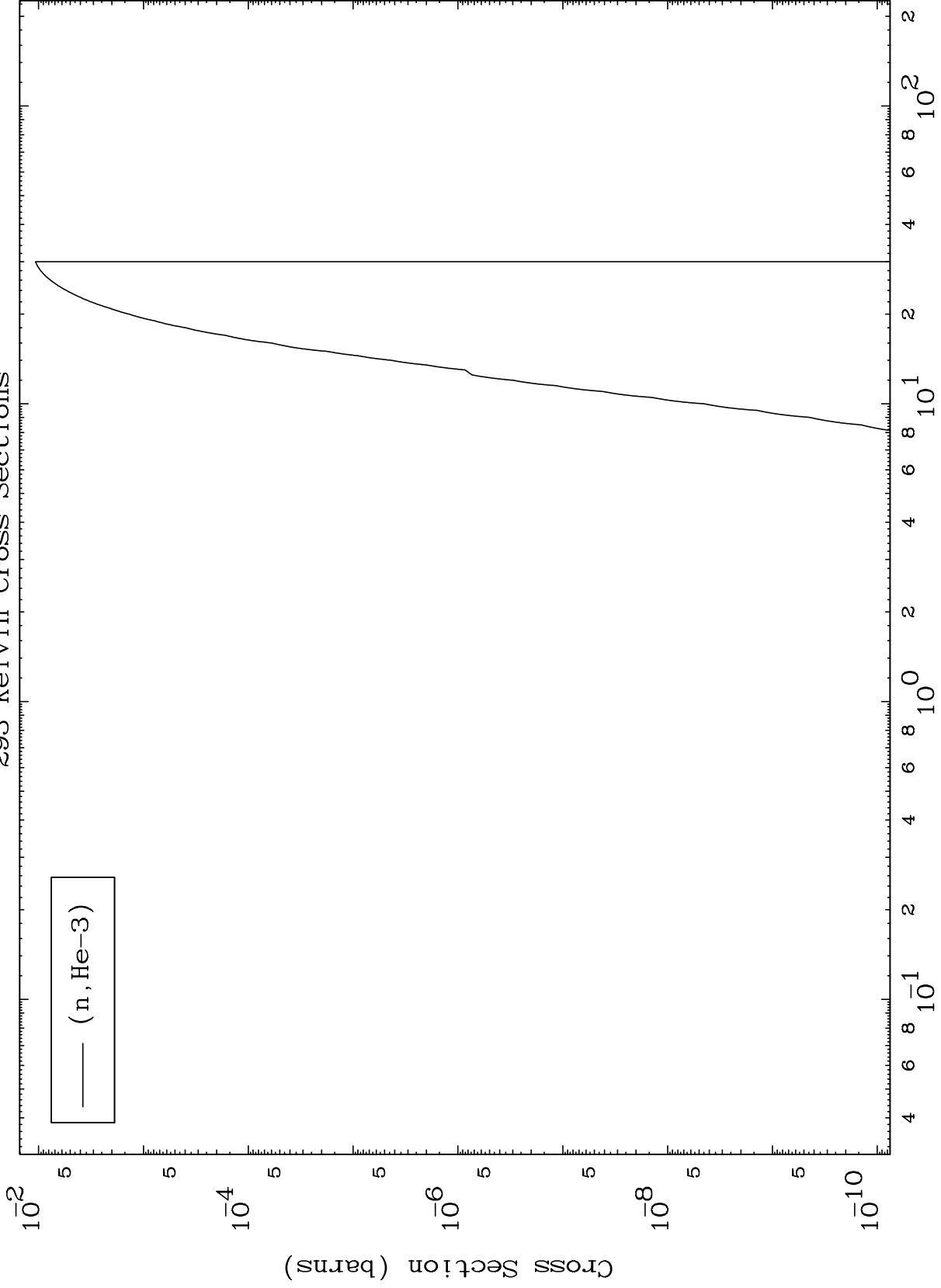
Incident Energy (MeV)

56-Ba-123

MAT 5604

(n,He3) Levels
293 Kelvin Cross Sections

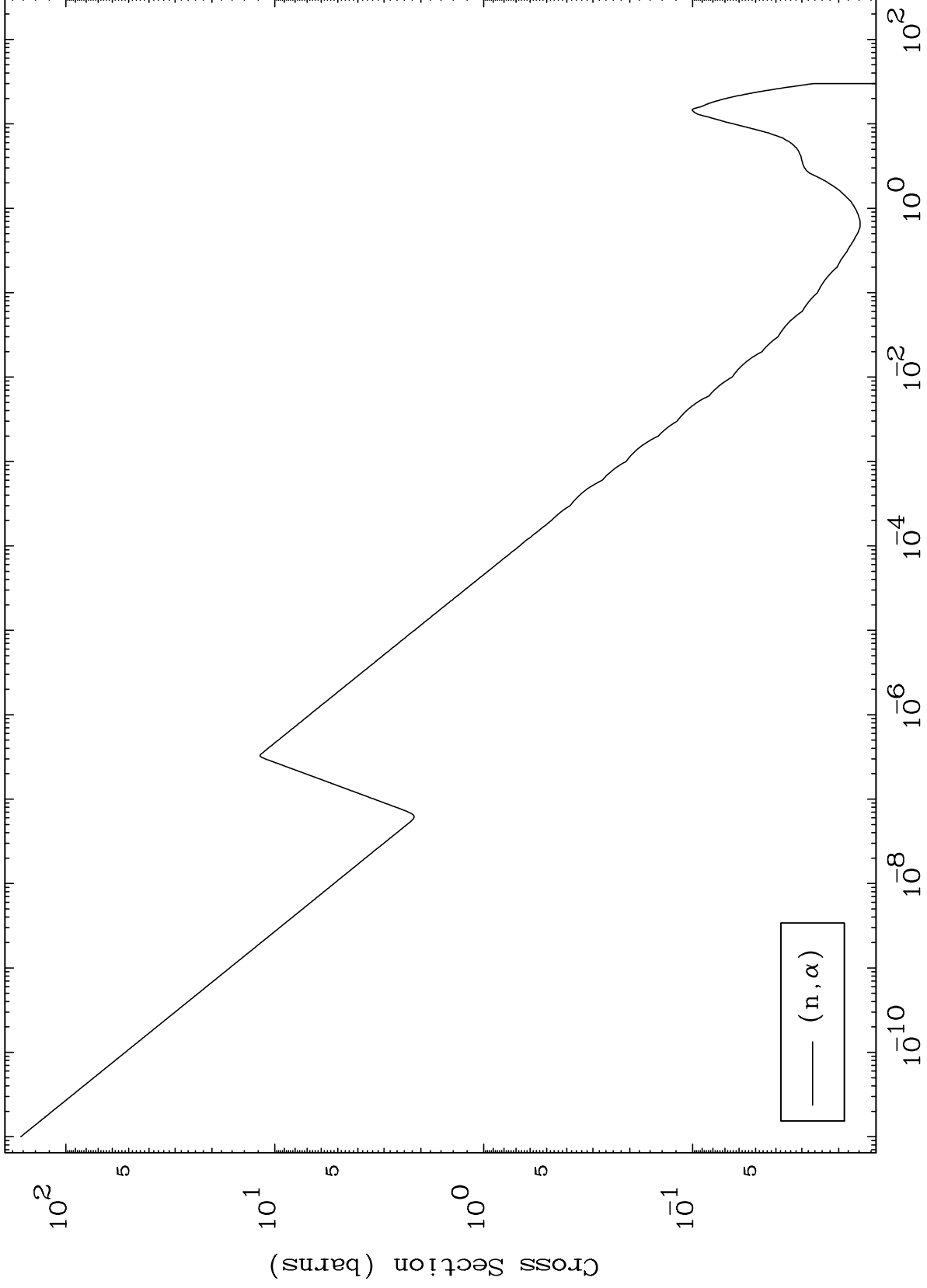
56-Ba-123



MAT 5604

(n, α) Levels
293 Kelvin Cross Sections

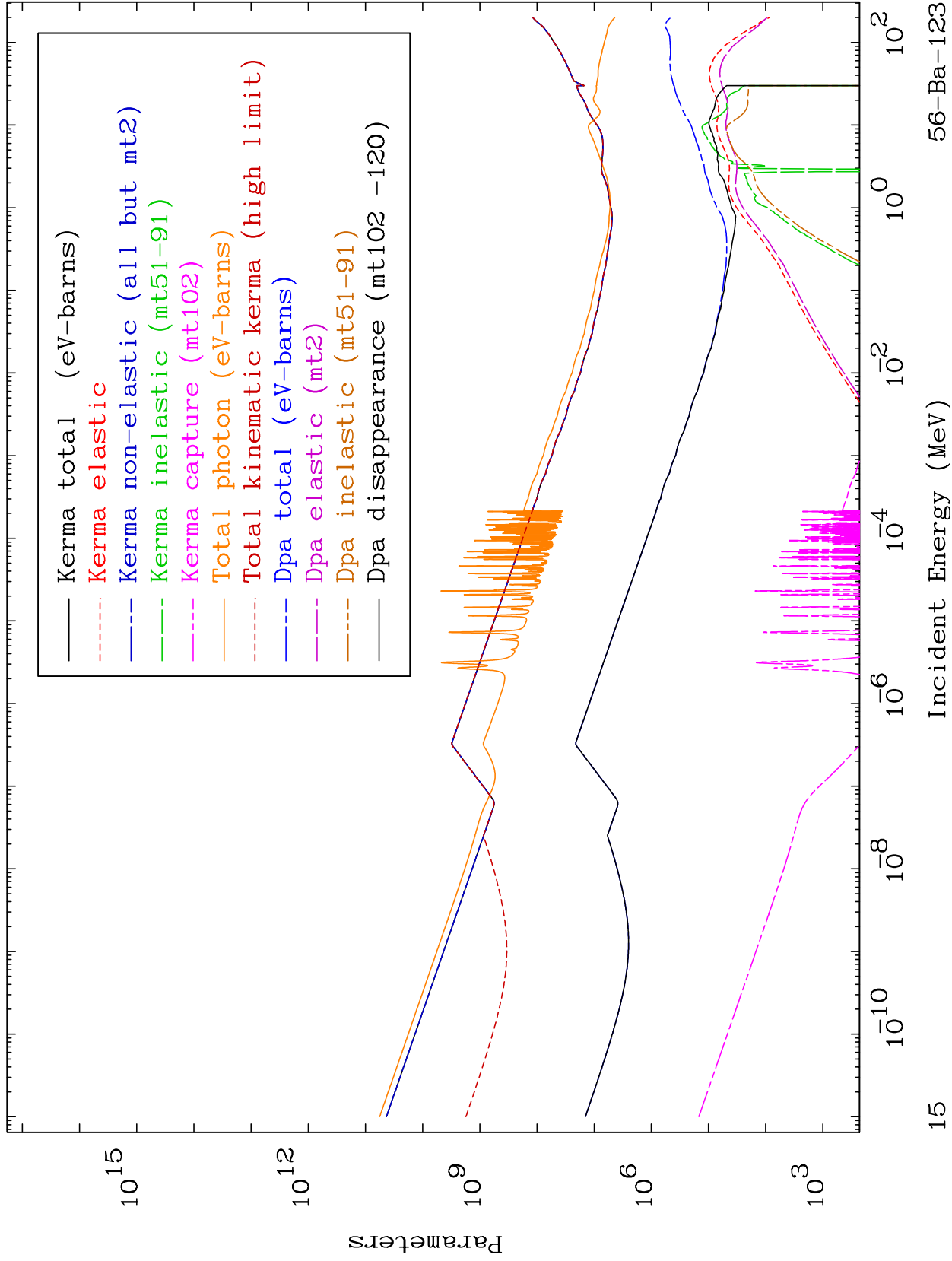
56-Ba-123



14

Incident Energy (MeV)

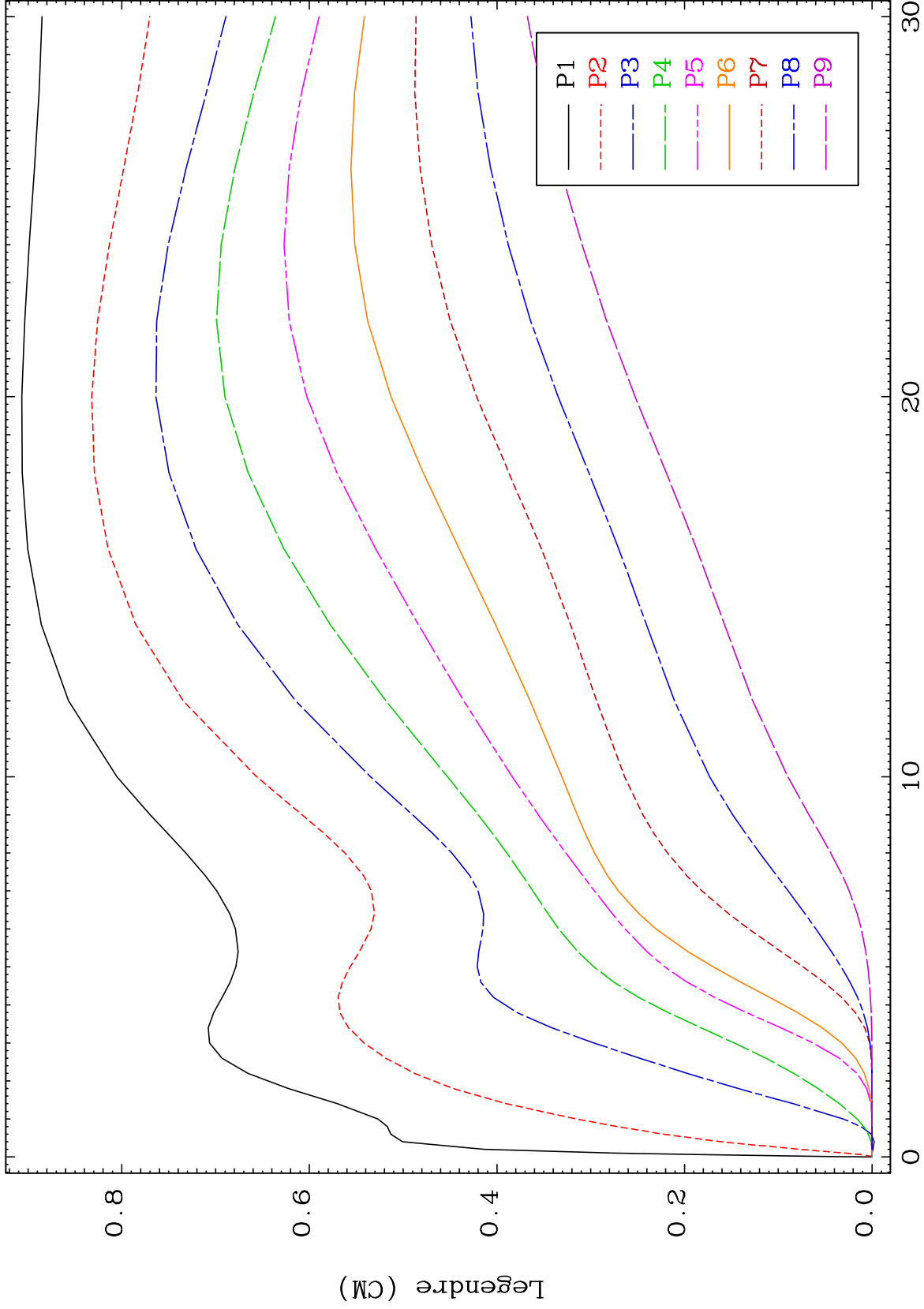
56-Ba-123



MAT 5604

Elastic Legendre Coefficients

56-Ba-123



16

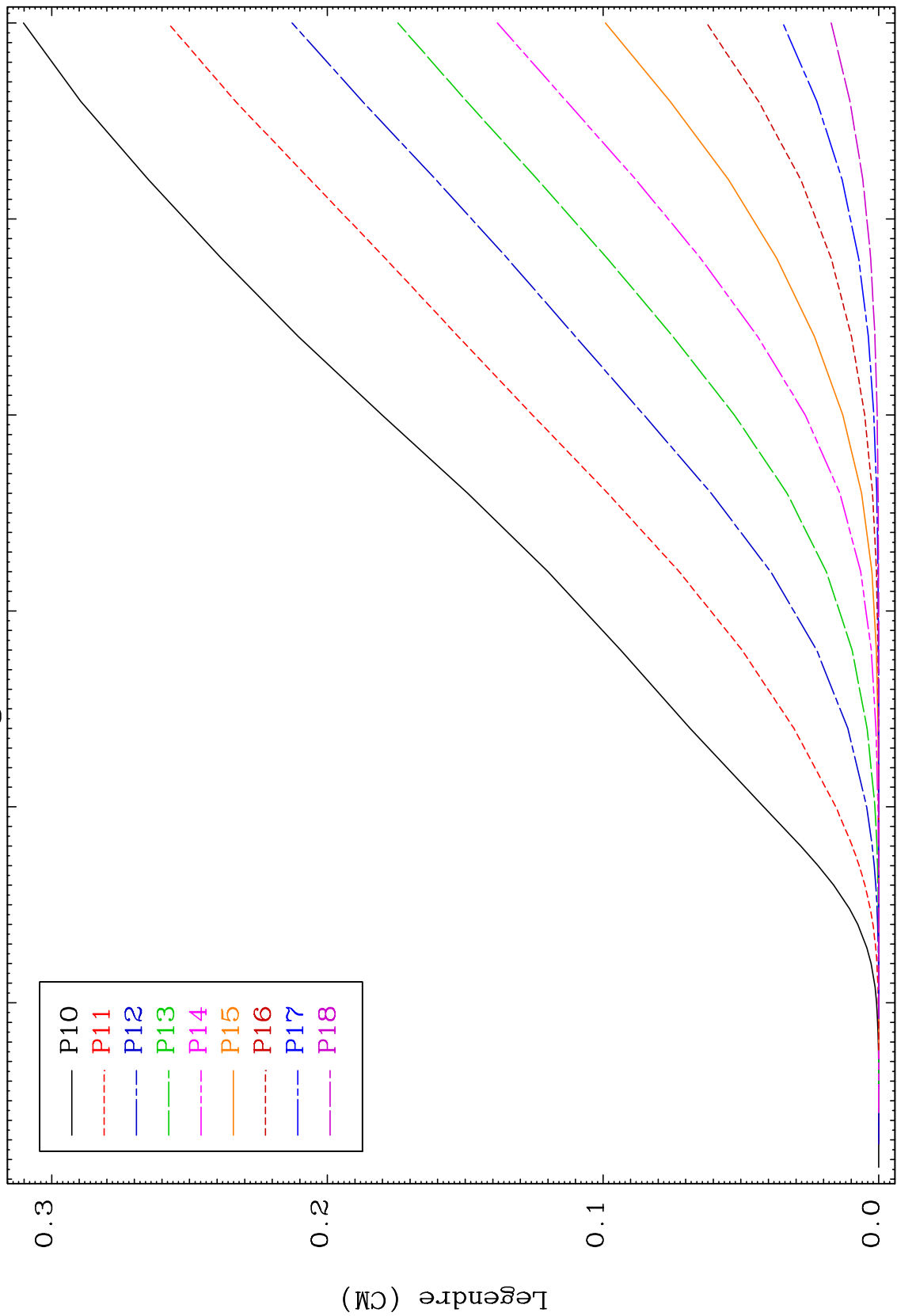
Incident Energy (MeV)

56-Ba-123

MAT 5604

Elastic Legendre Coefficients

56-Ba-123



17

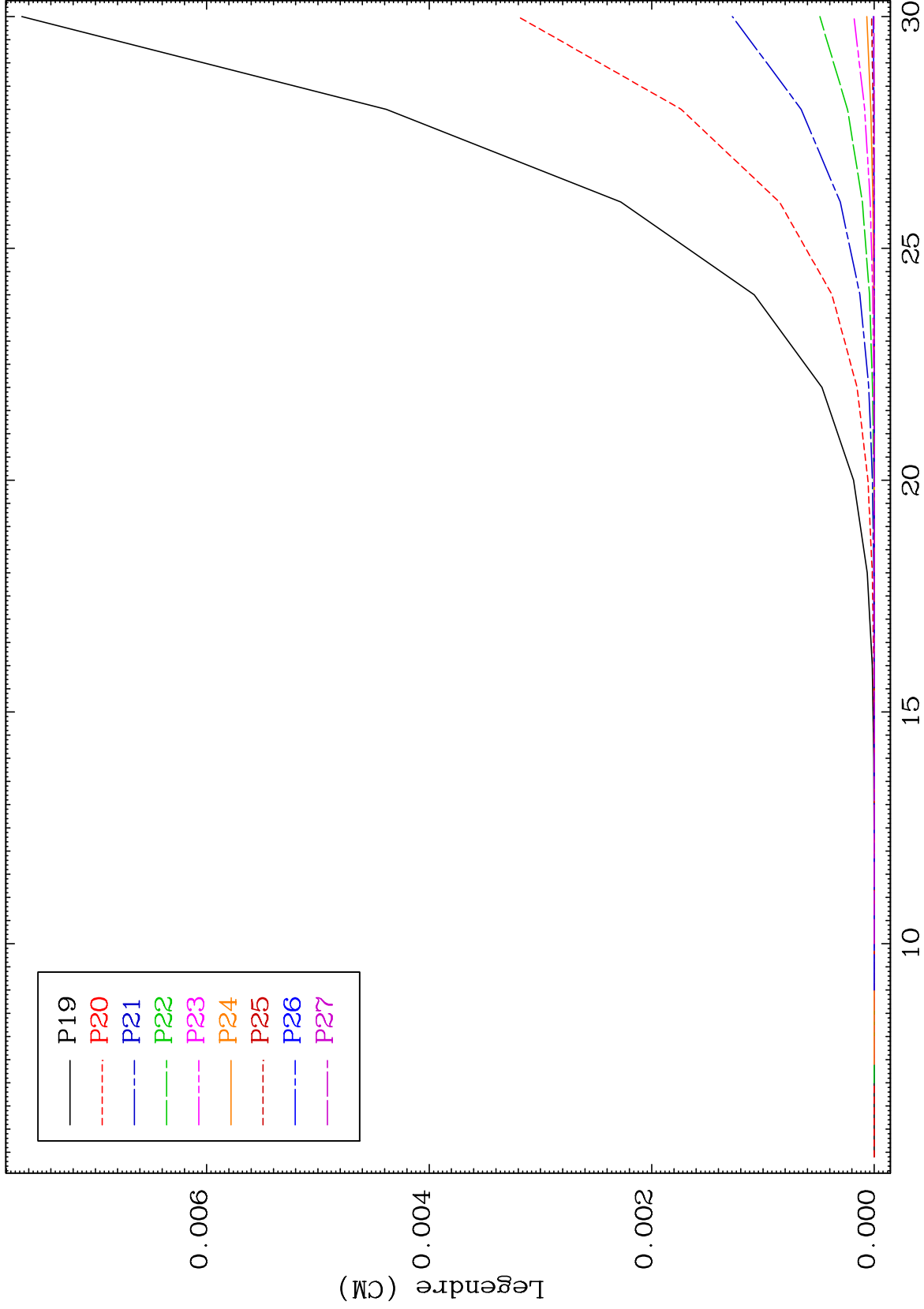
Incident Energy (MeV)

56-Ba-123

MAT 5604

Elastic Legendre Coefficients

56-Ba-123



18

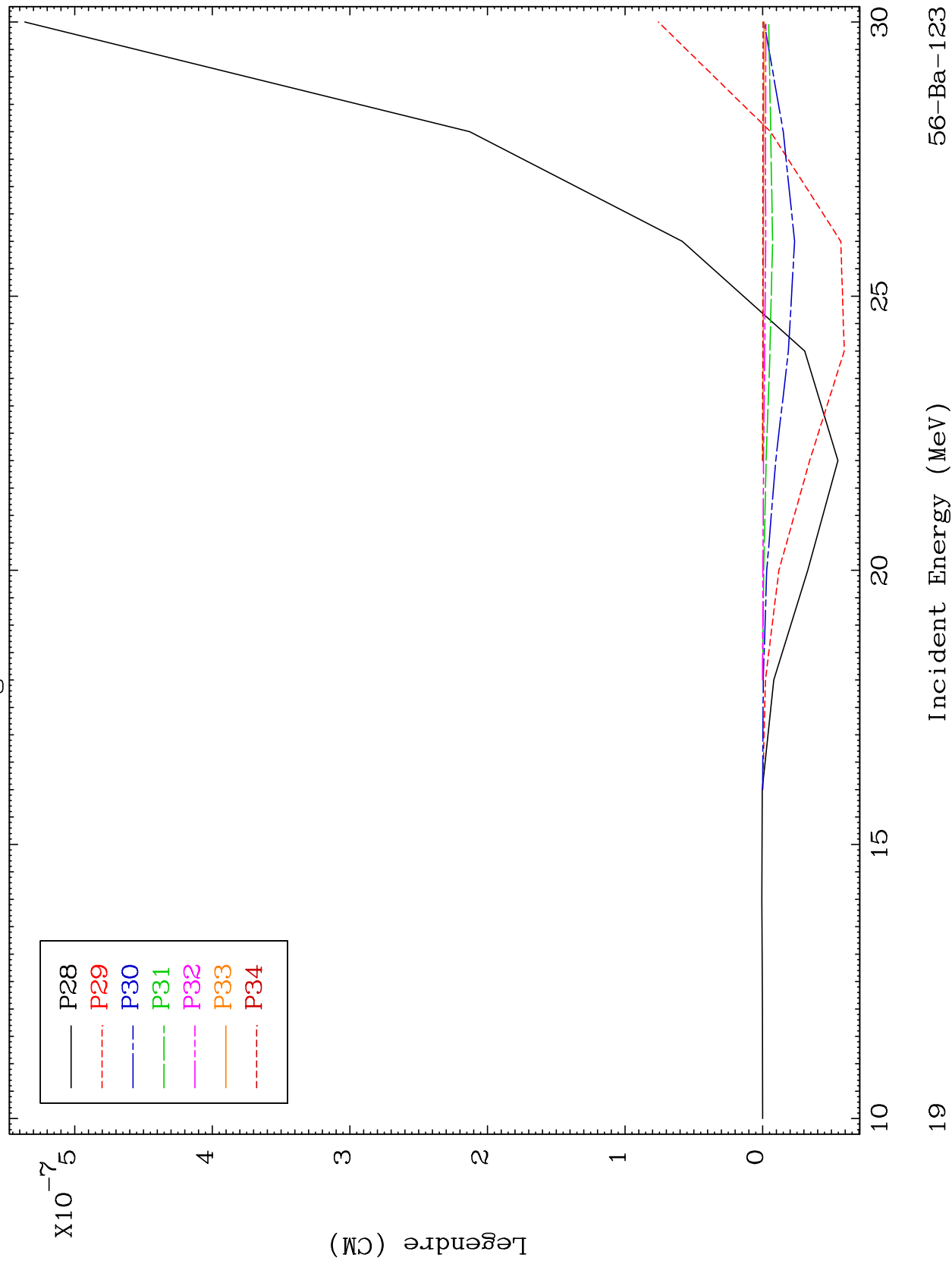
Incident Energy (MeV)

56-Ba-123

MAT 5604

Elastic Legendre Coefficients

56-Ba-123



56-Ba-123

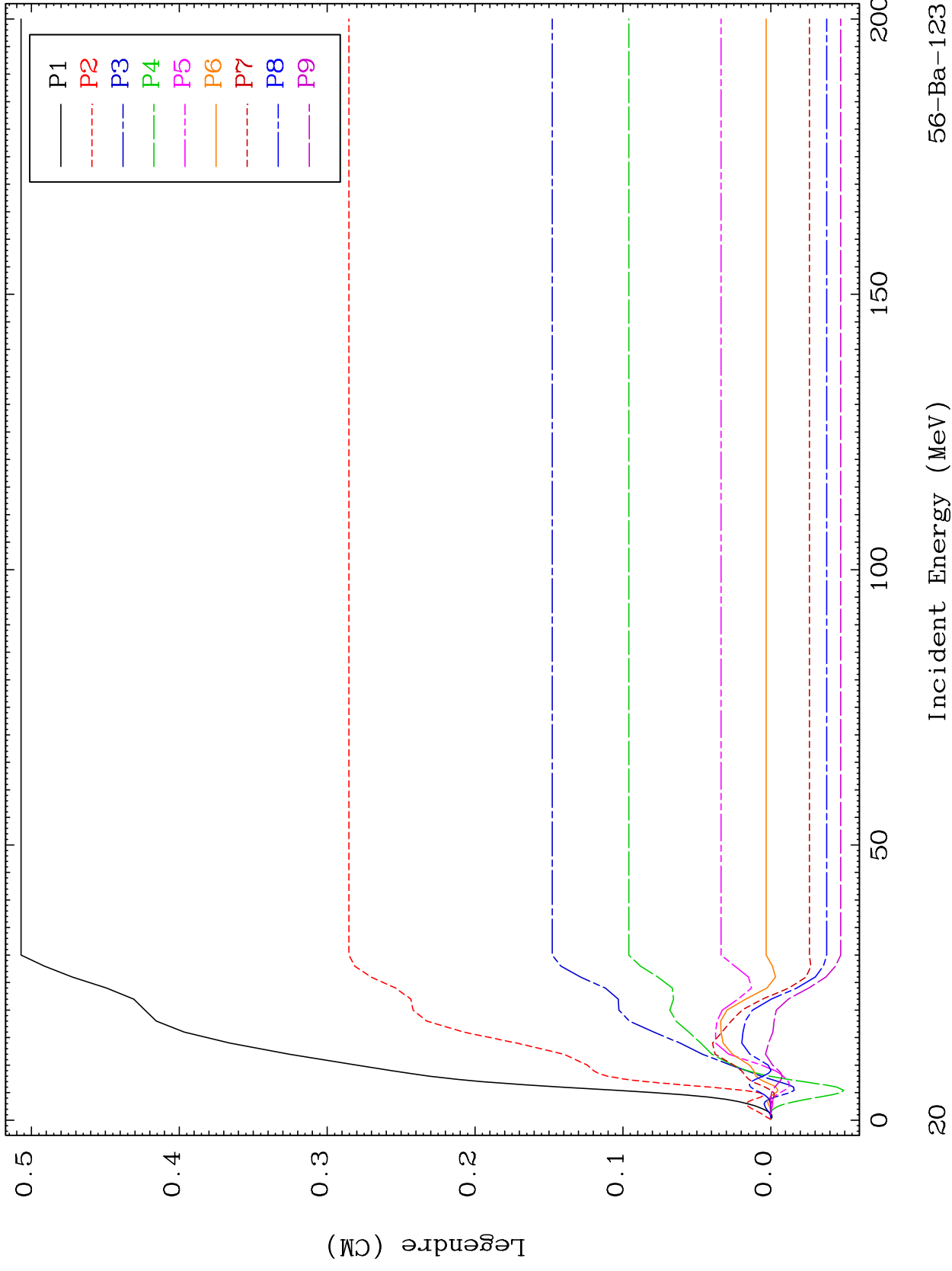
Incident Energy (MeV)

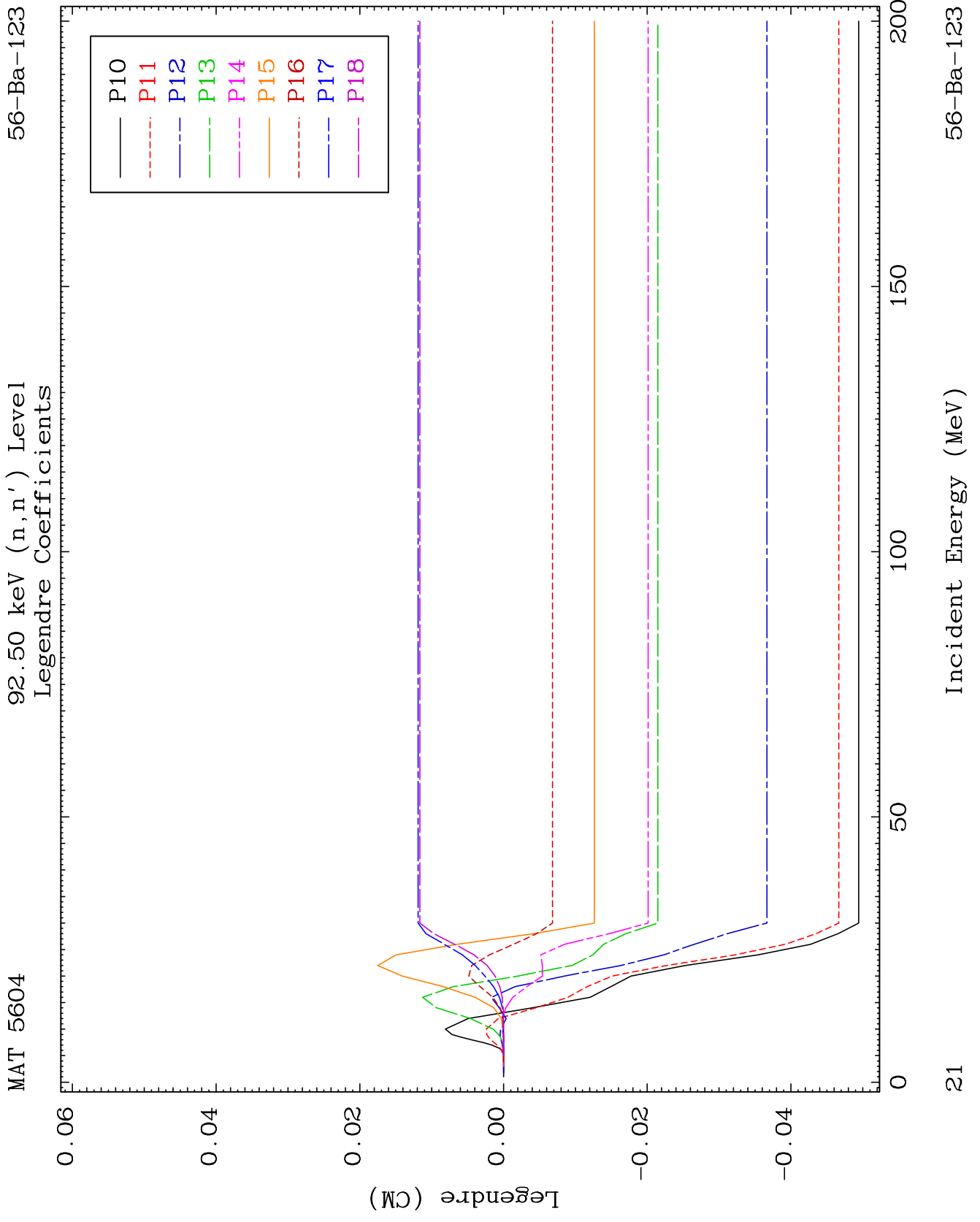
19

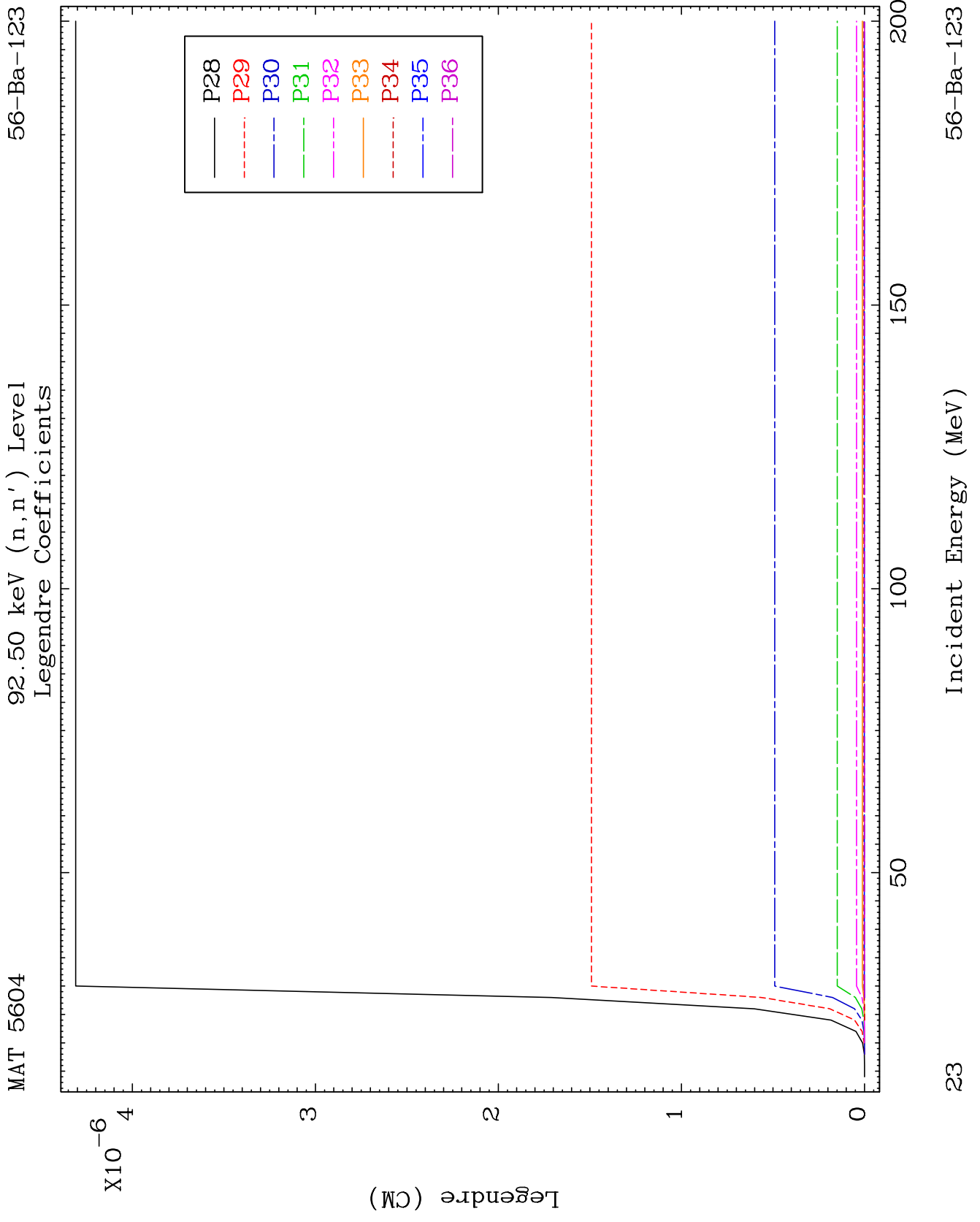
MAT 5604

92.50 keV (n, n') Level
Legendre Coefficients

56-Ba-123



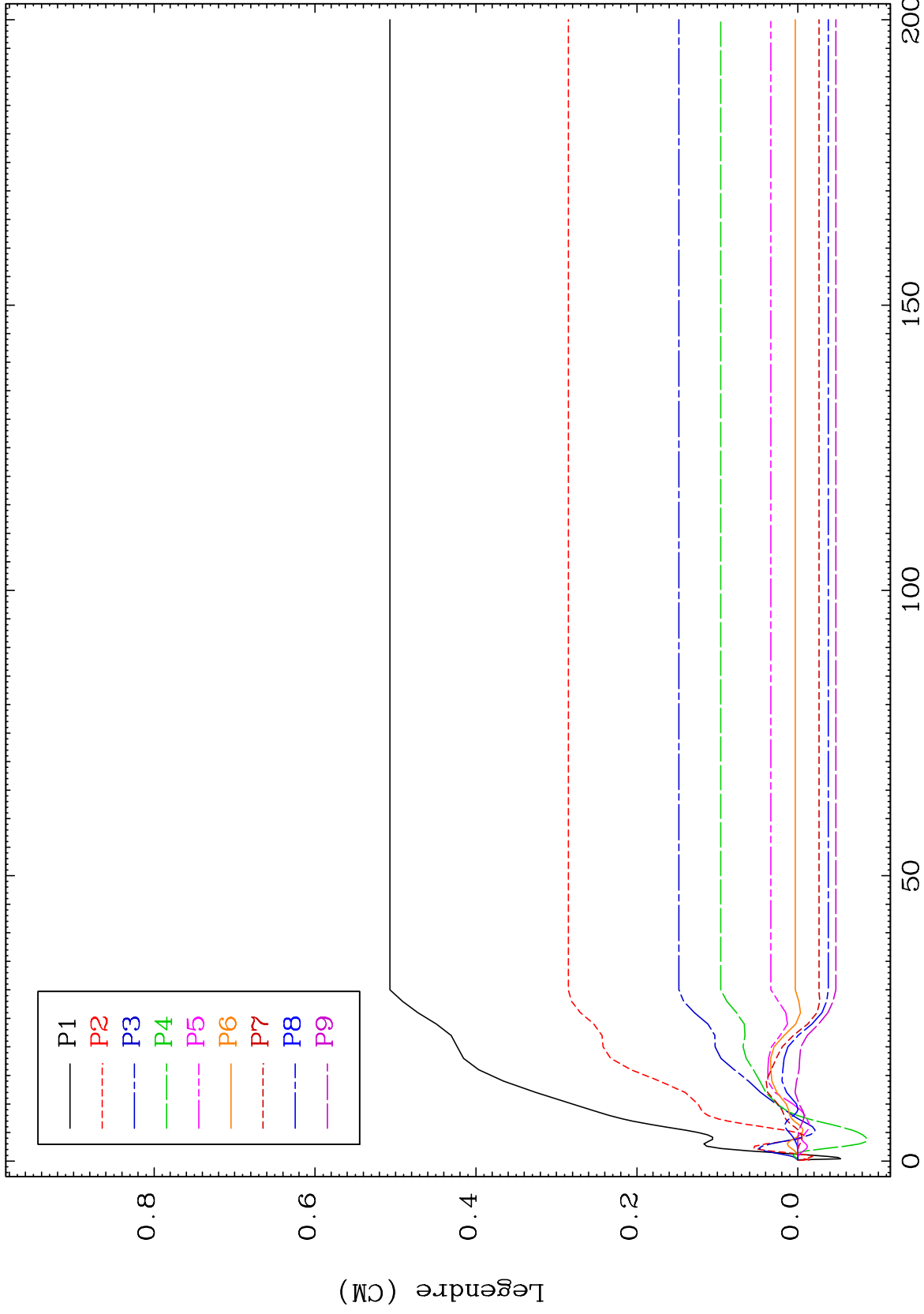




MAT 5604

120.9 keV (n,n') Level
Legendre Coefficients

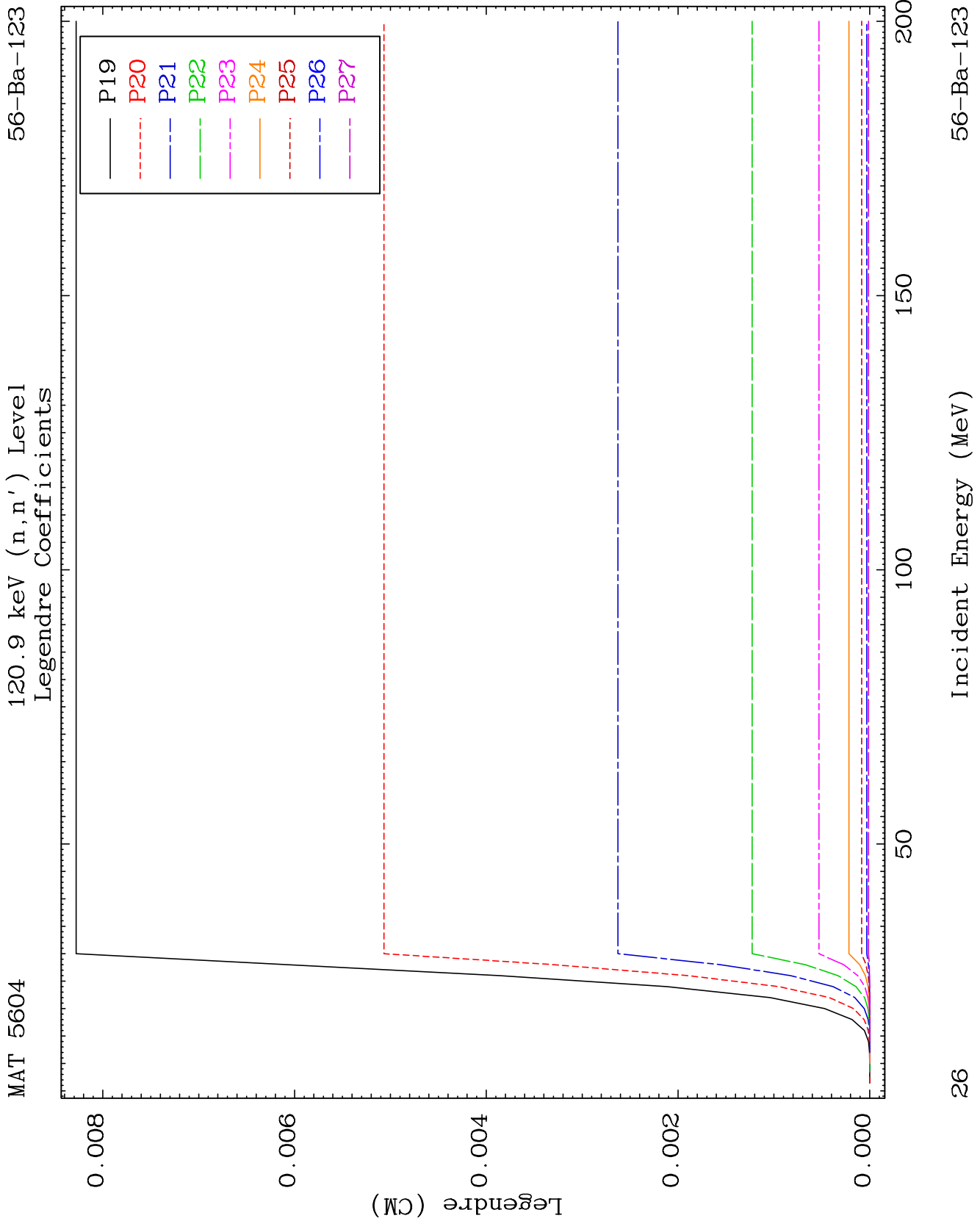
56-Ba-123

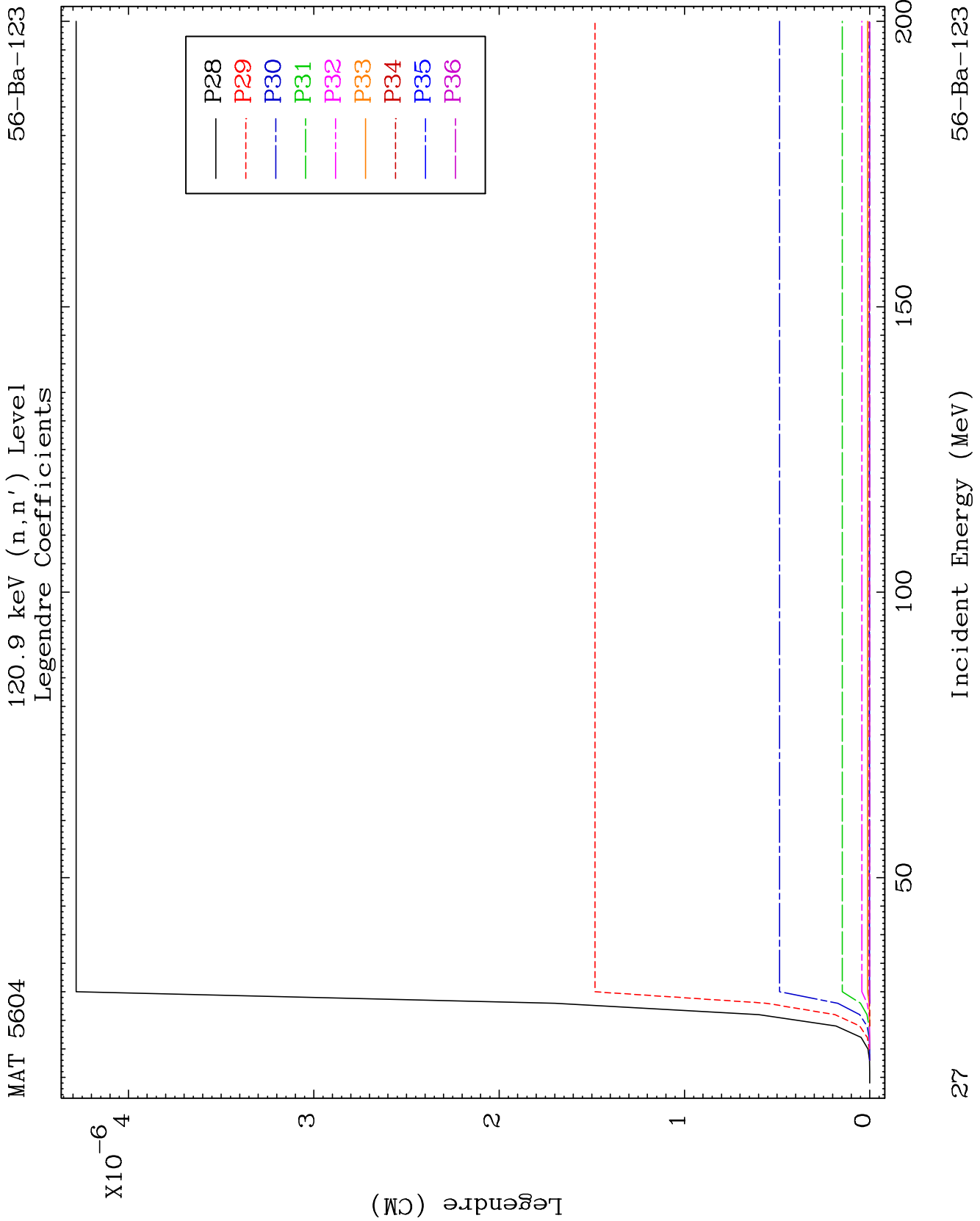


24

Incident Energy (MeV)

56-Ba-123

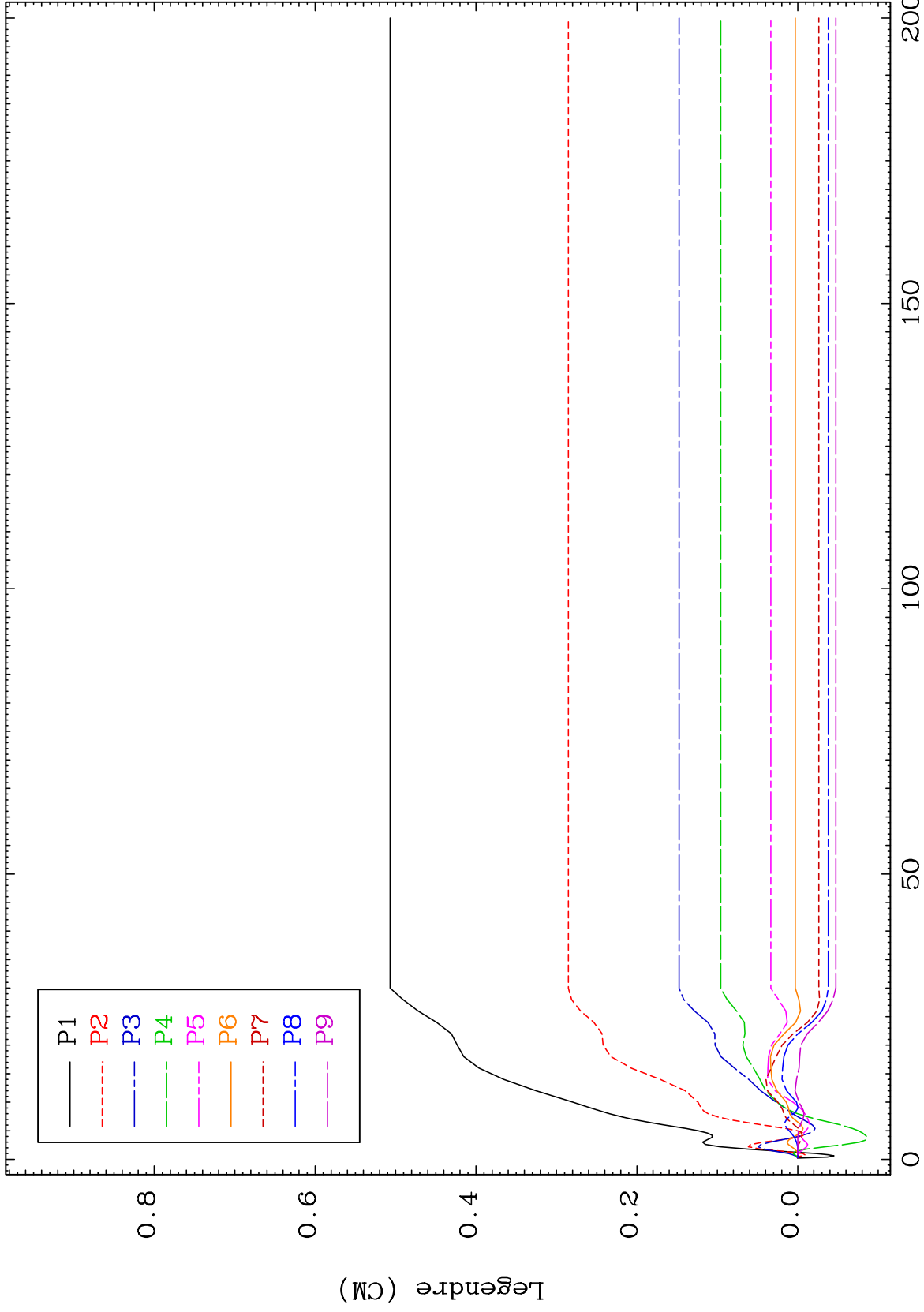




MAT 5604

153.6 keV (n,n') Level
Legendre Coefficients

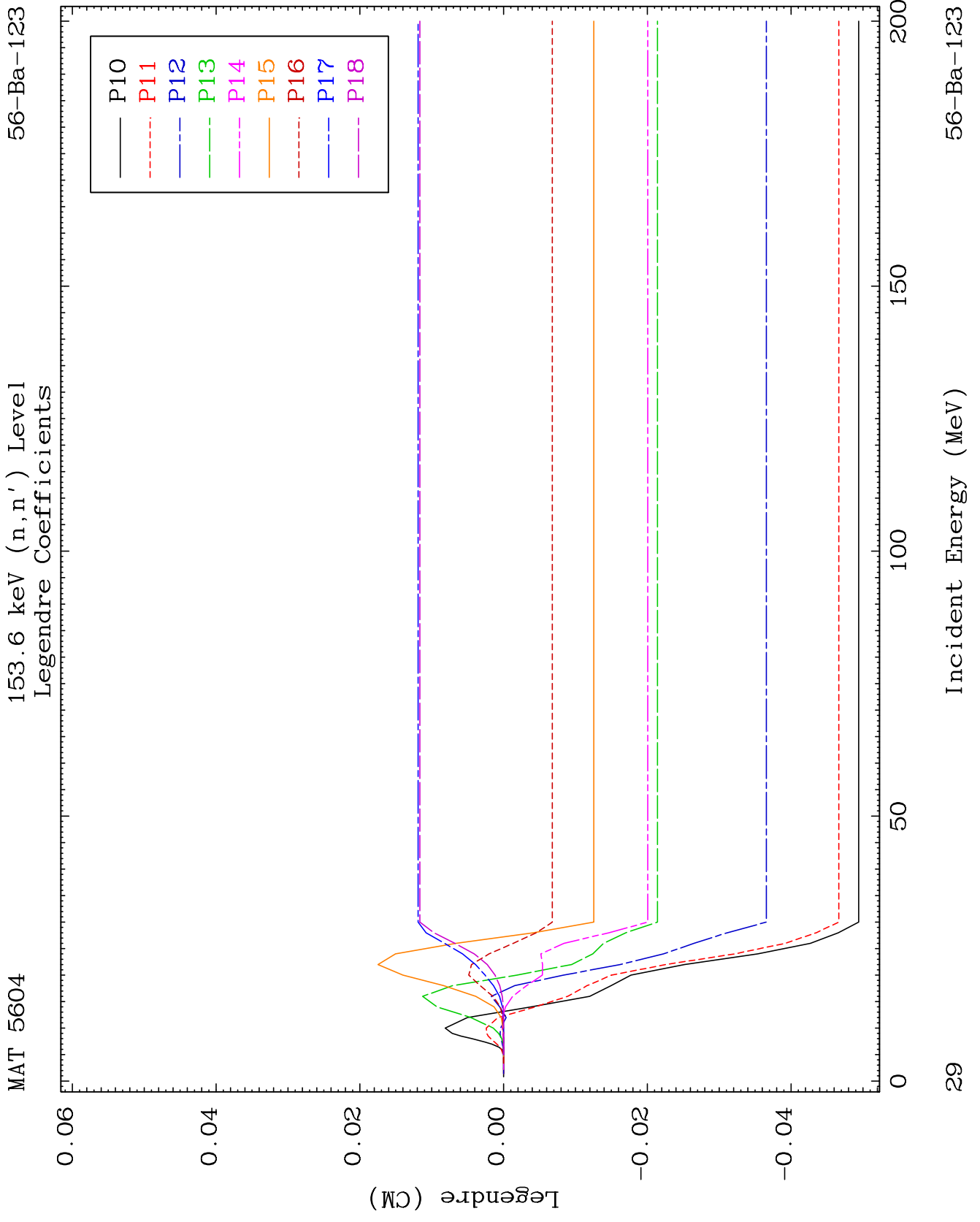
56-Ba-123

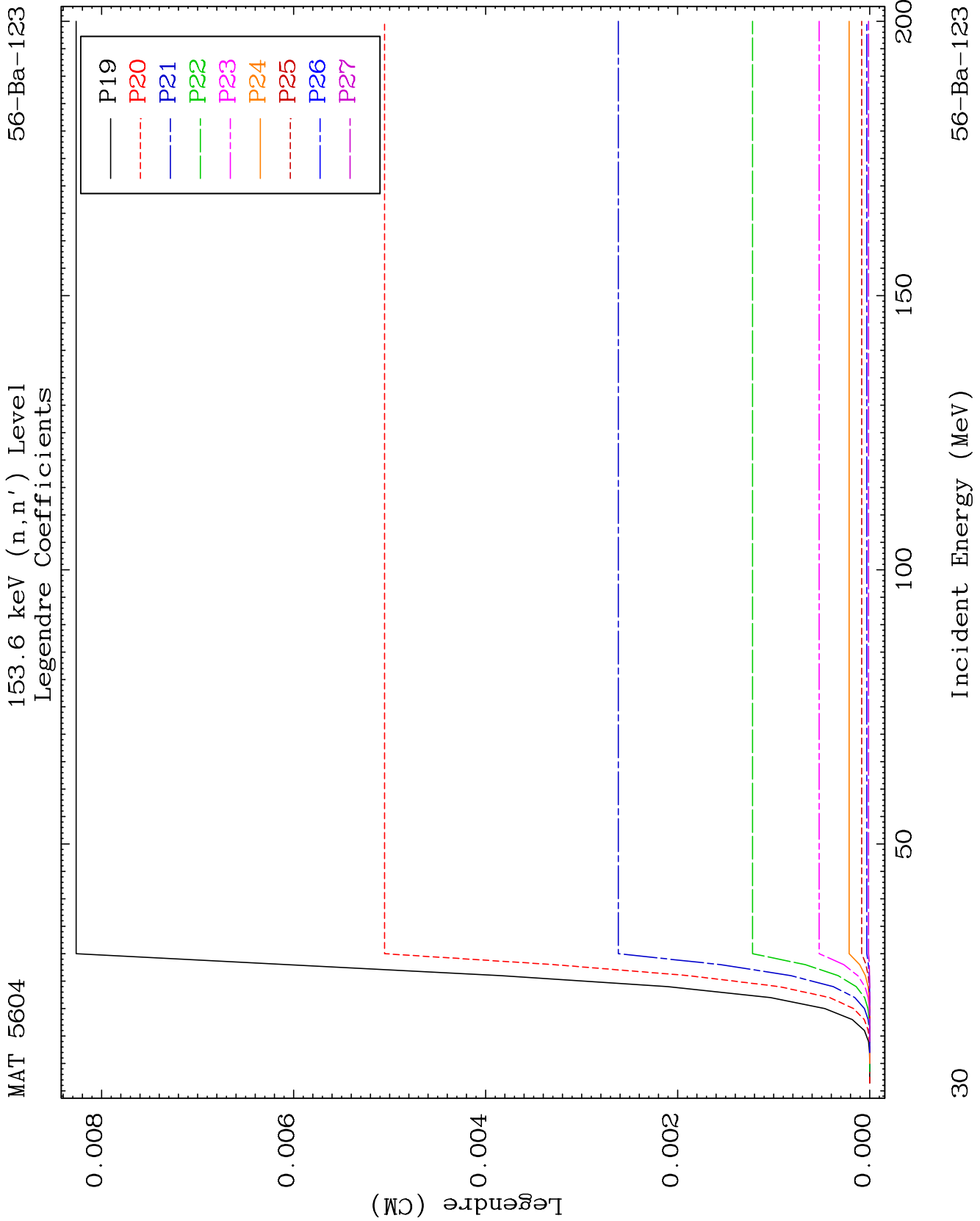


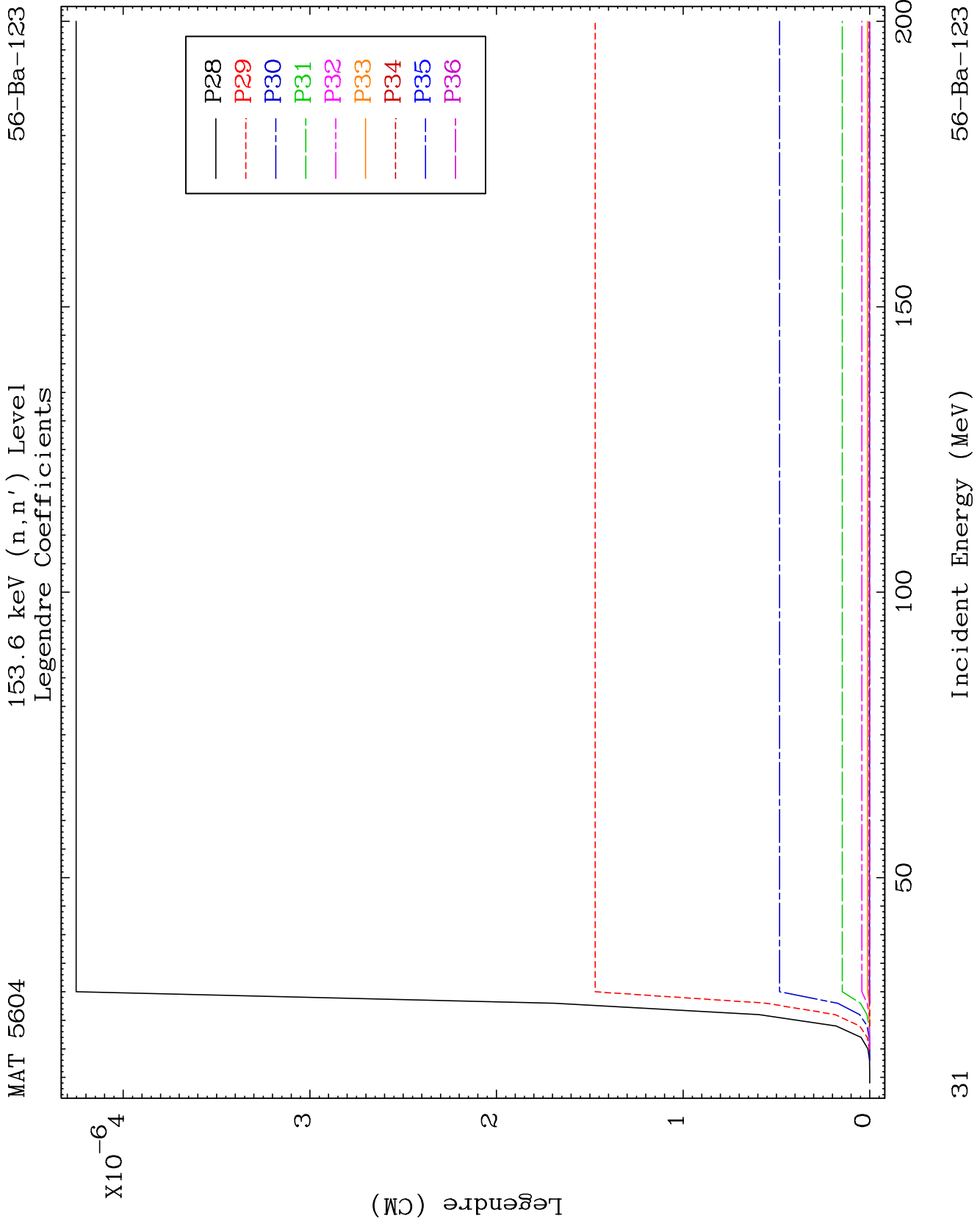
28

Incident Energy (MeV)

56-Ba-123



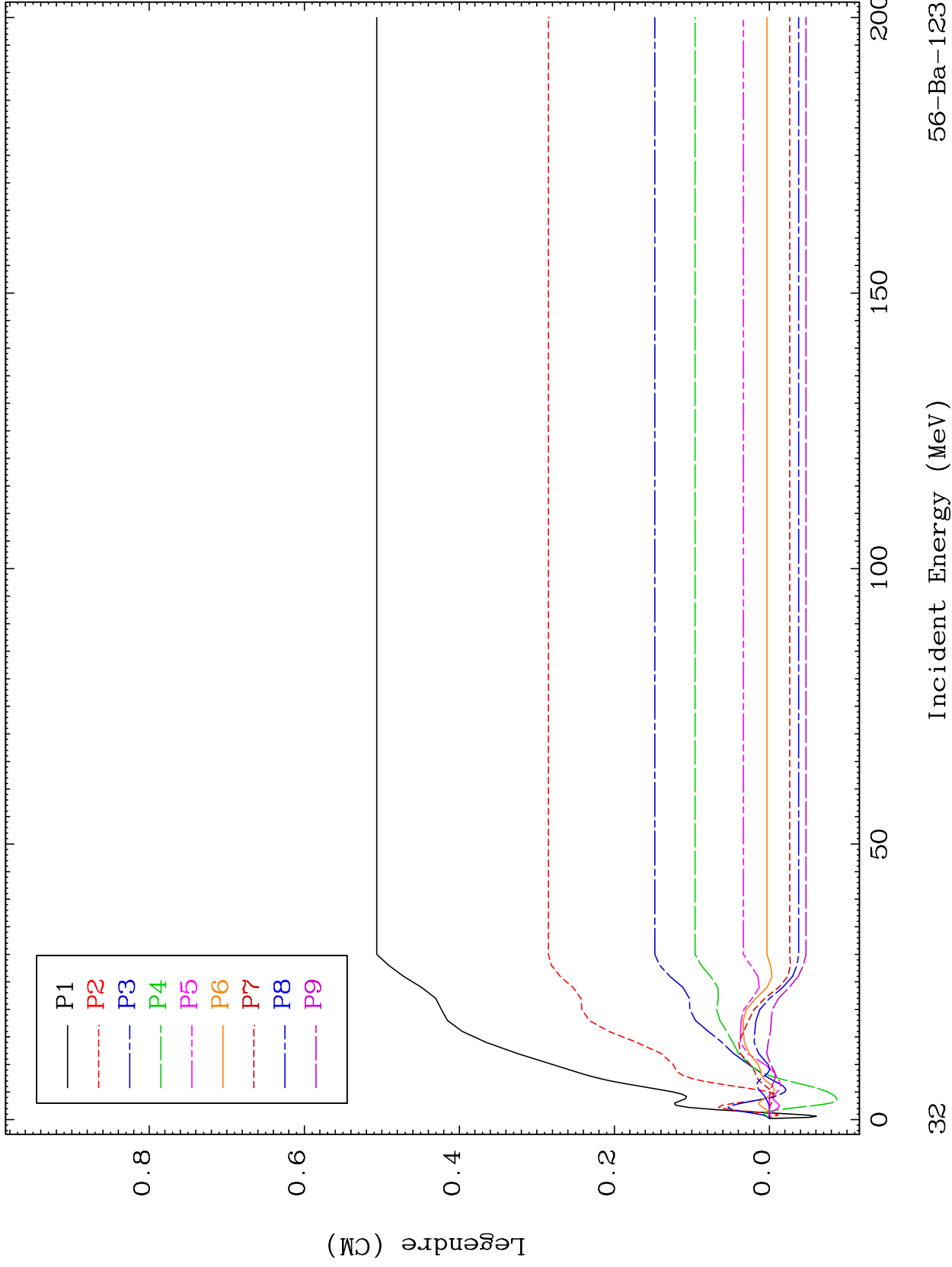




MAT 5604

169.0 keV (n,n') Level
Legendre Coefficients

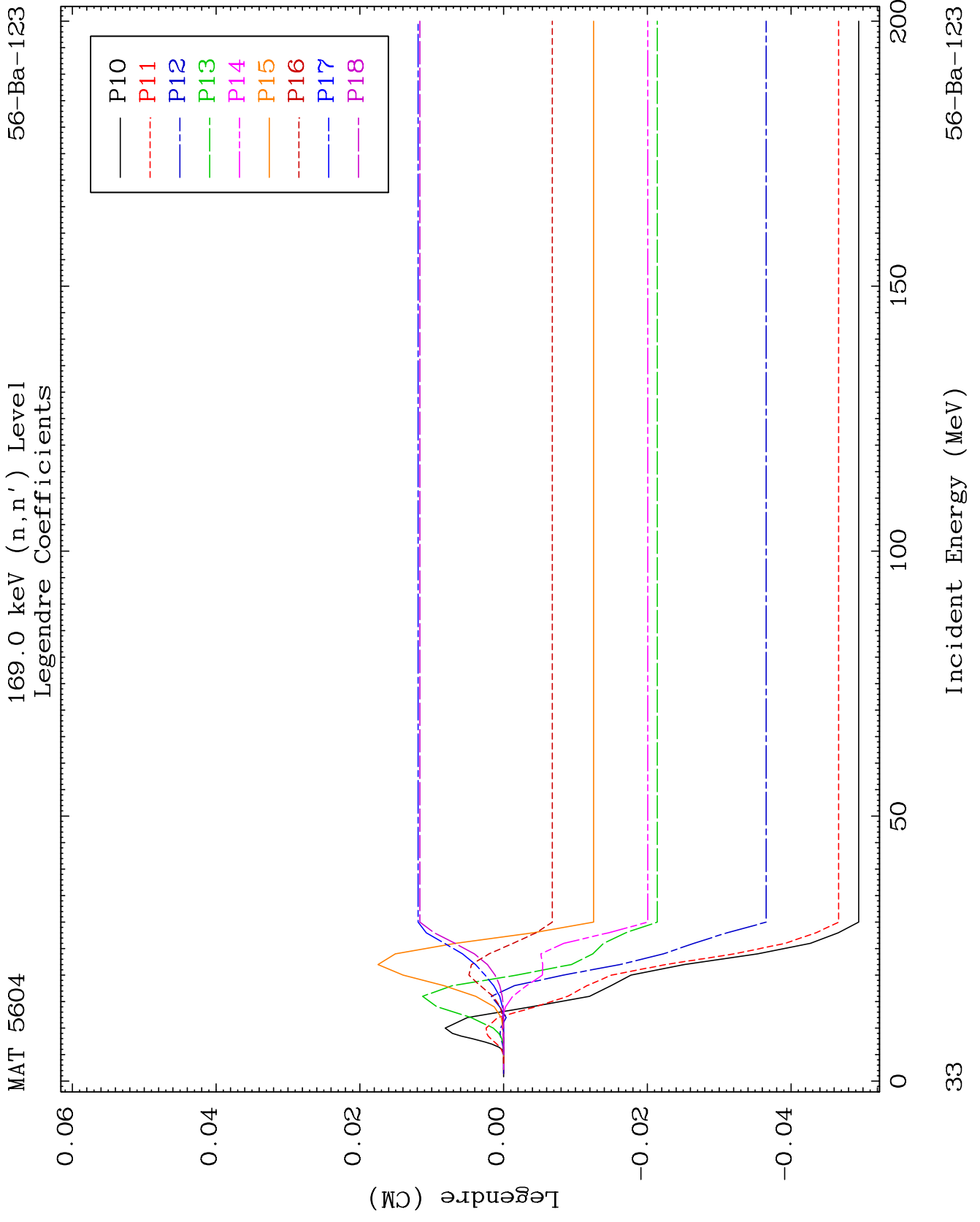
56-Ba-123

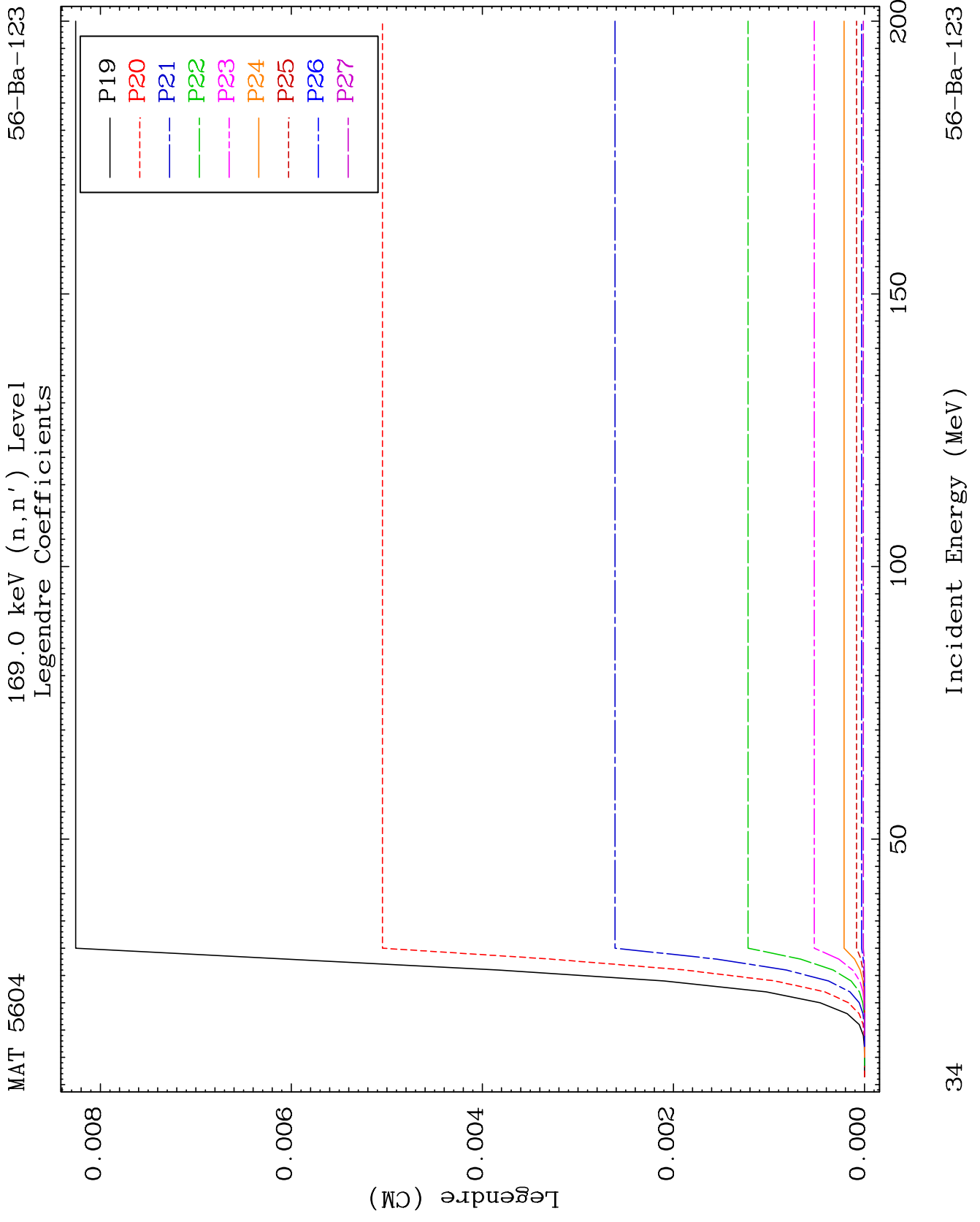


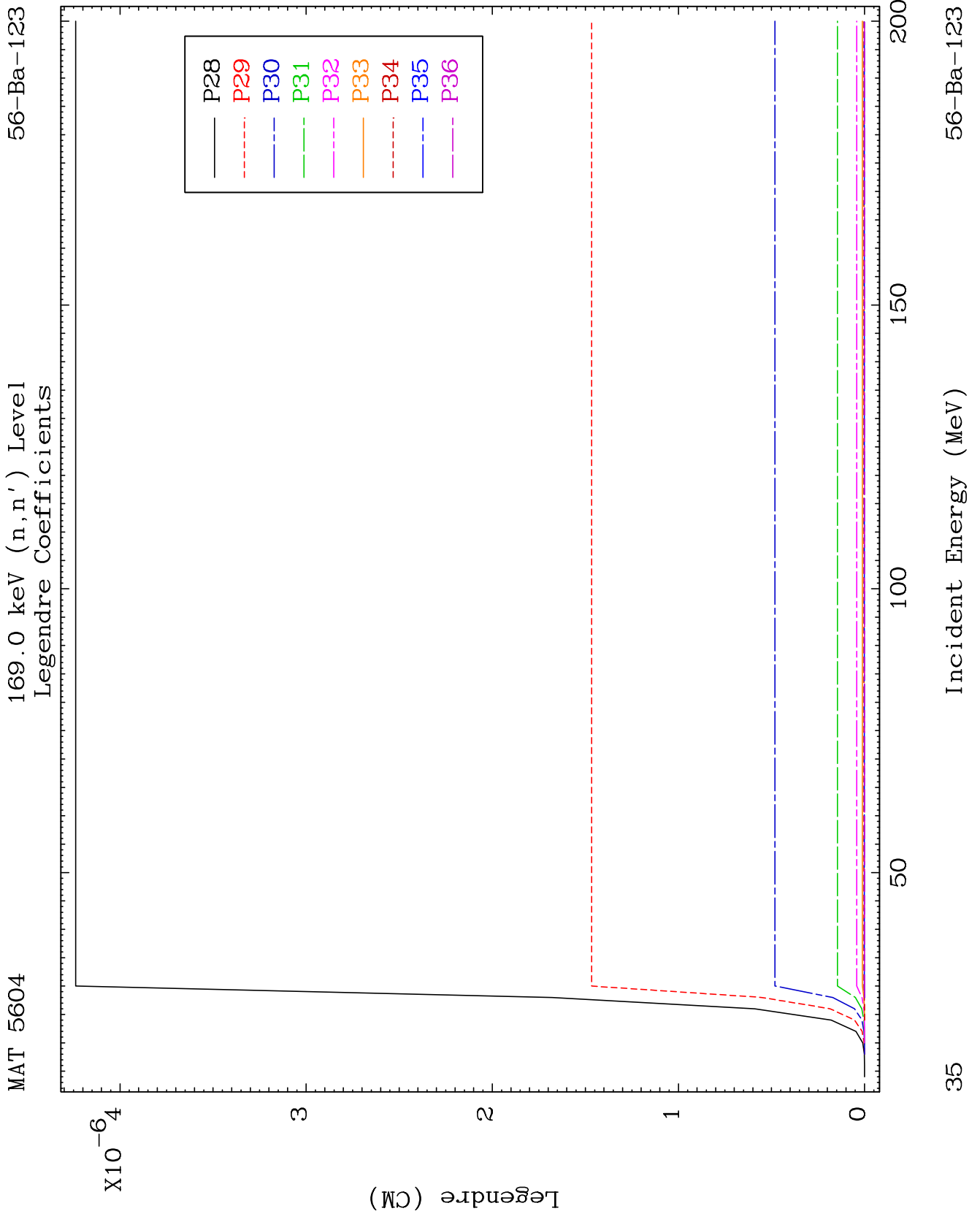
56-Ba-123

Incident Energy (MeV)

32



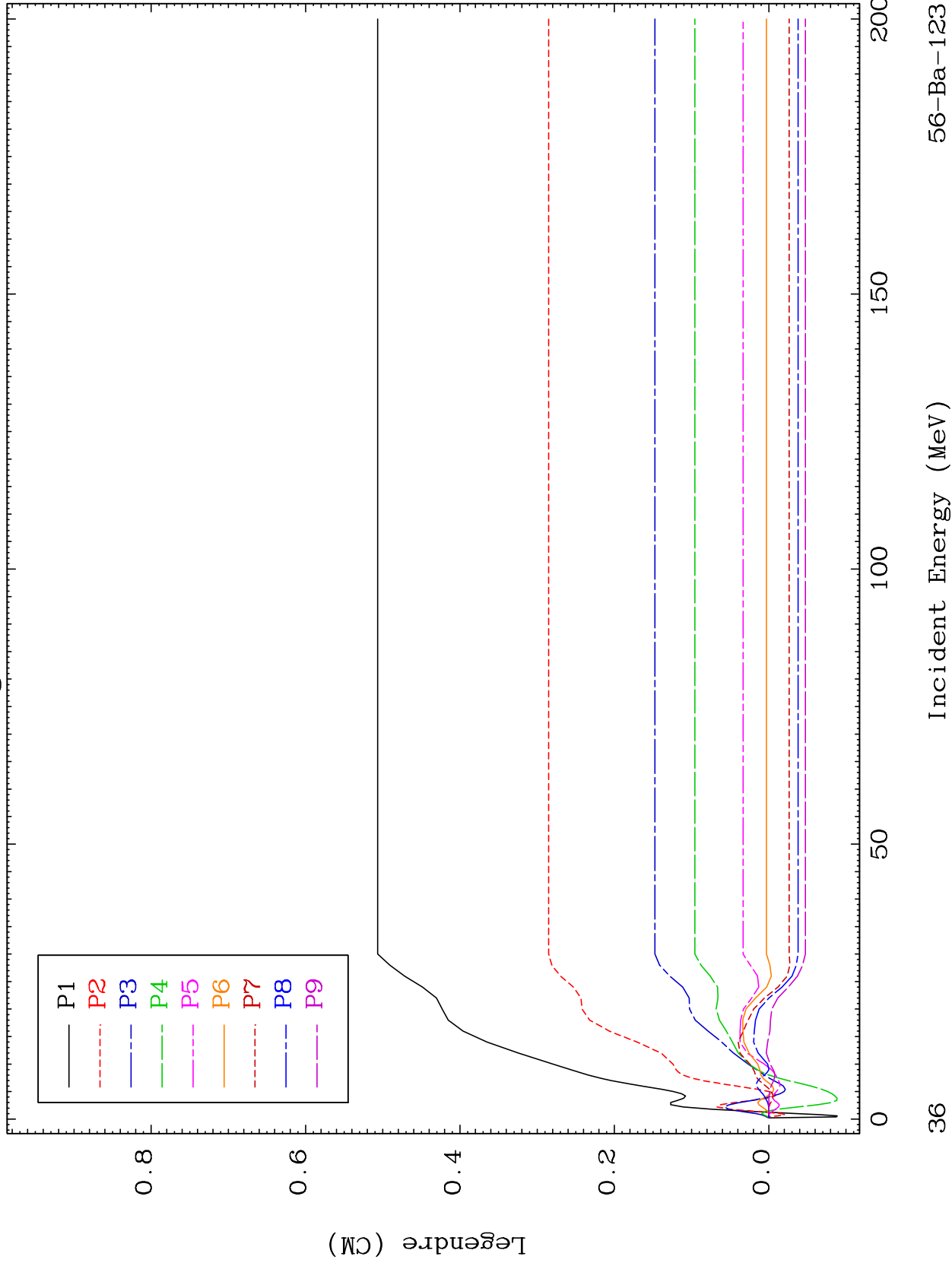




MAT 5604

202.3 keV (n,n') Level
Legendre Coefficients

56-Ba-123



56-Ba-123

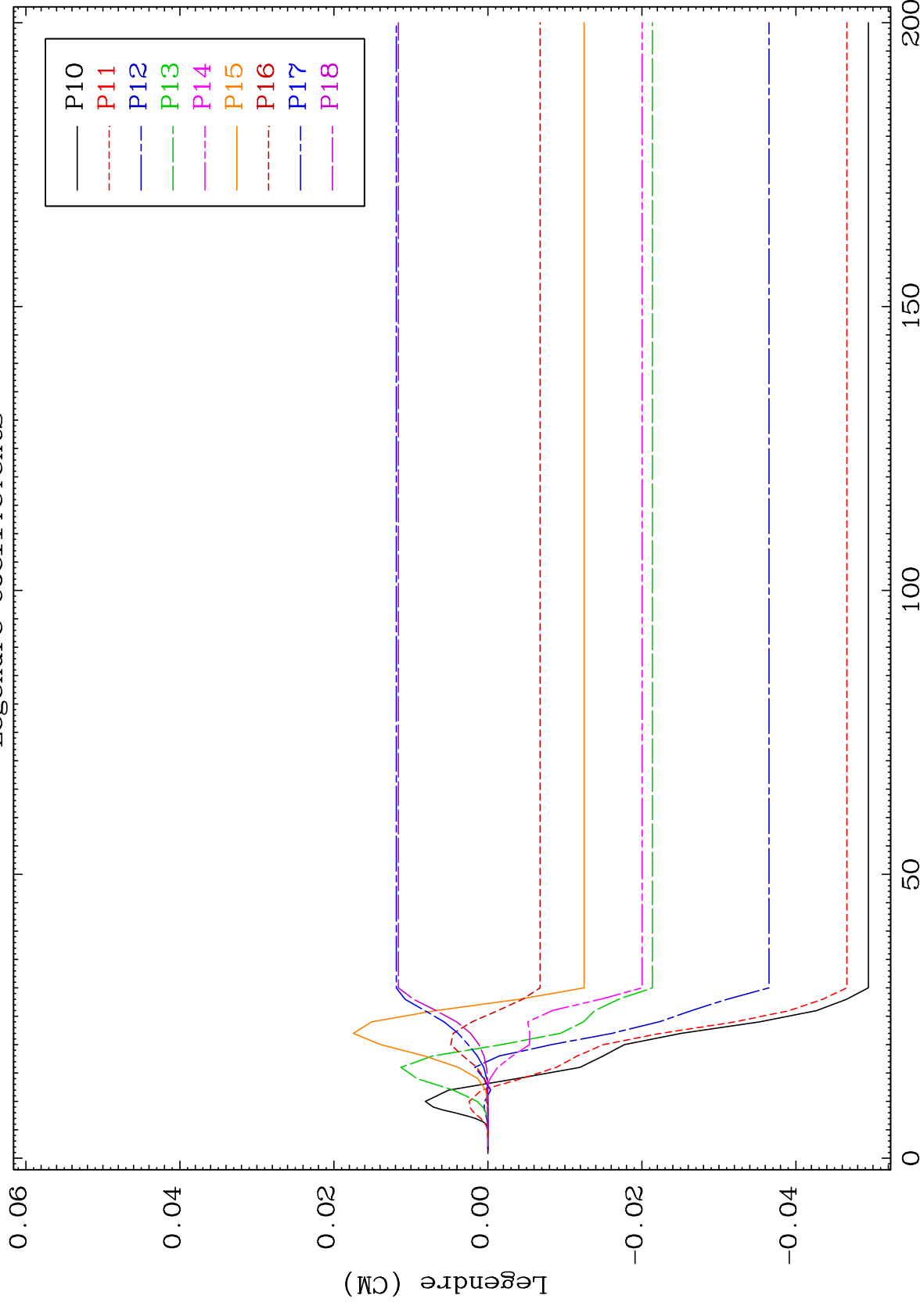
Incident Energy (MeV)

36

MAT 5604

202.3 keV (n,n') Level
Legendre Coefficients

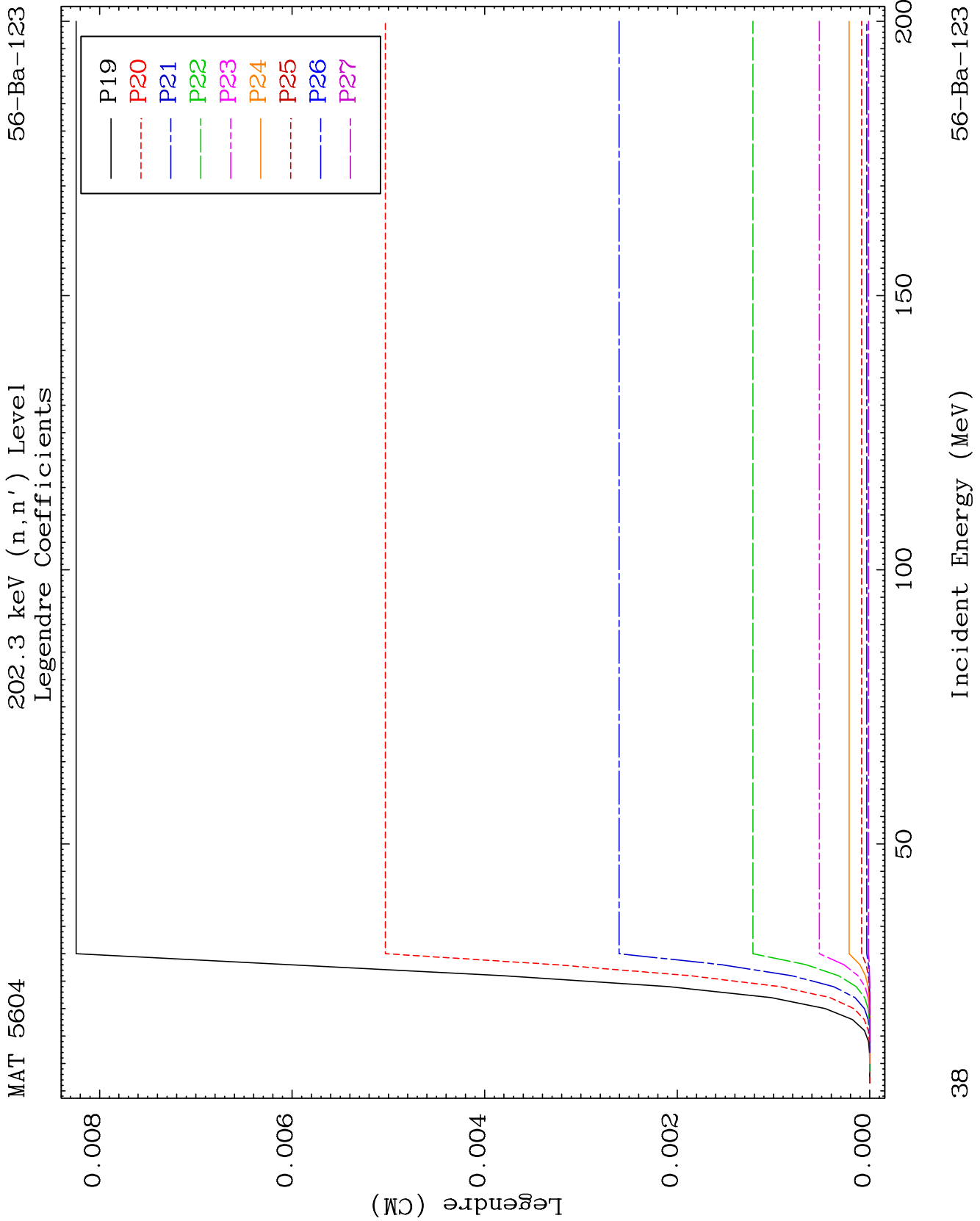
56-Ba-123



37

Incident Energy (MeV)

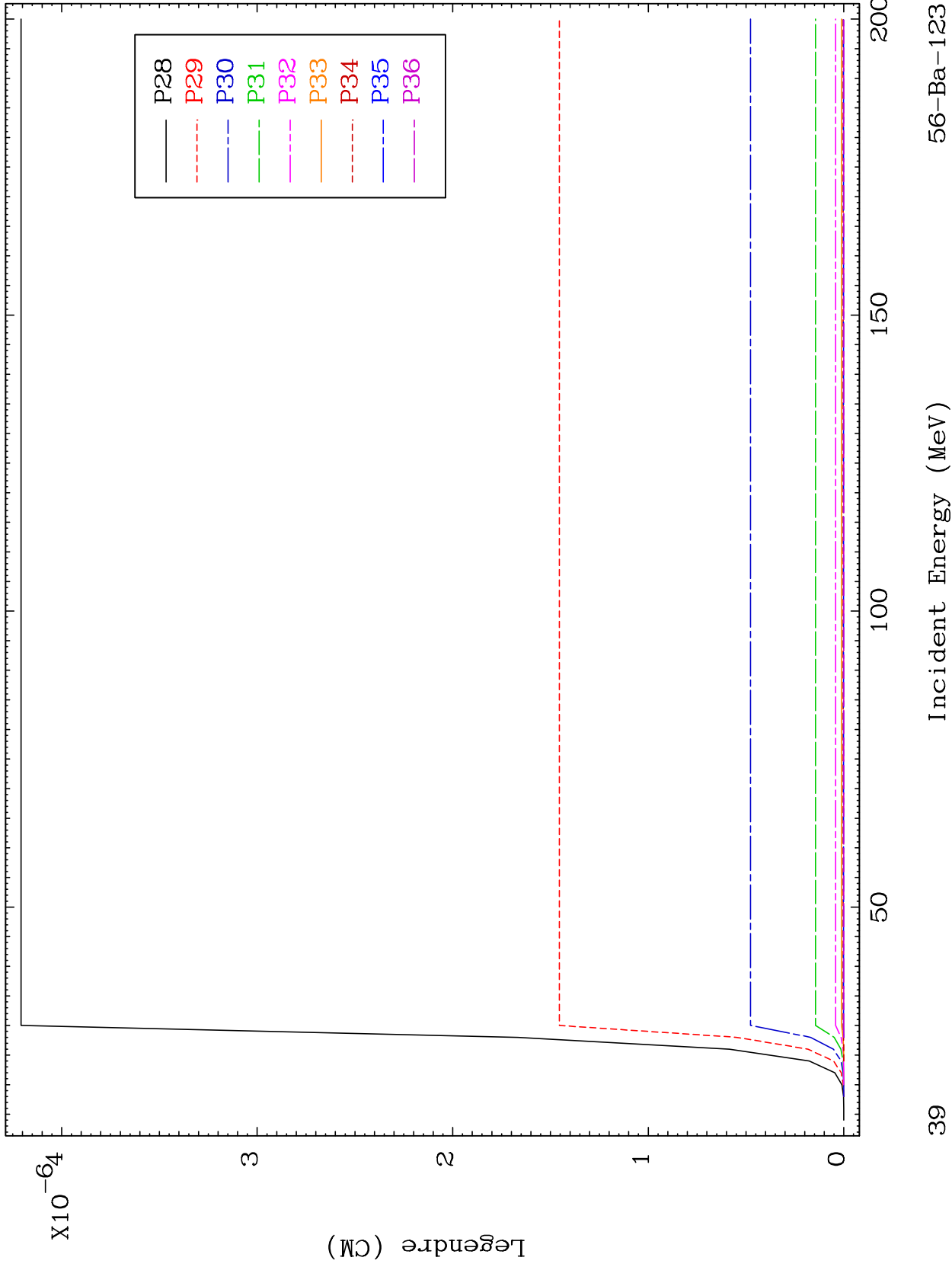
56-Ba-123



MAT 5604

202.3 keV (n, n') Level
Legendre Coefficients

56-Ba-123



39

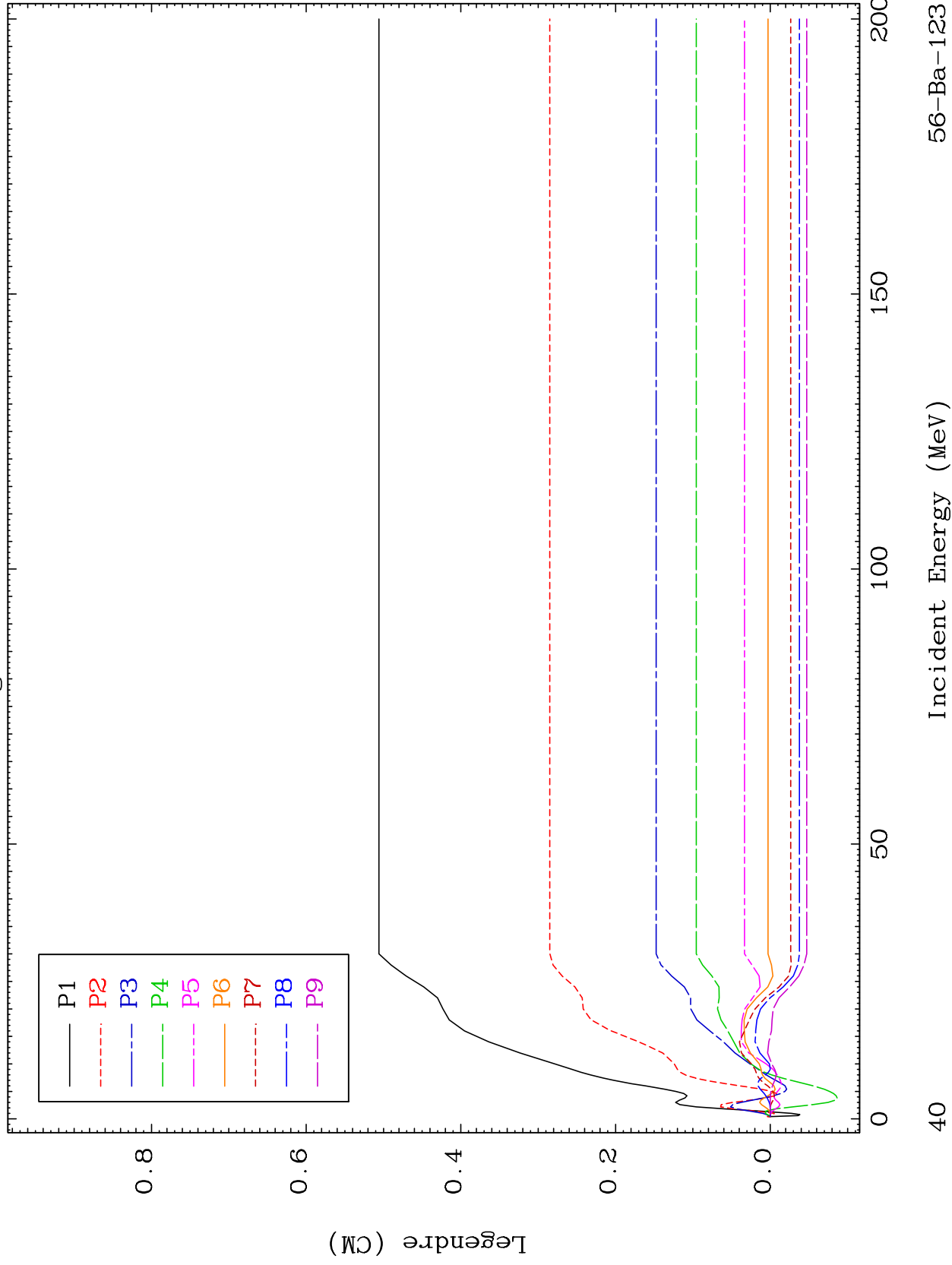
Incident Energy (MeV)

56-Ba-123

MAT 5604

328.0 keV (n,n') Level
Legendre Coefficients

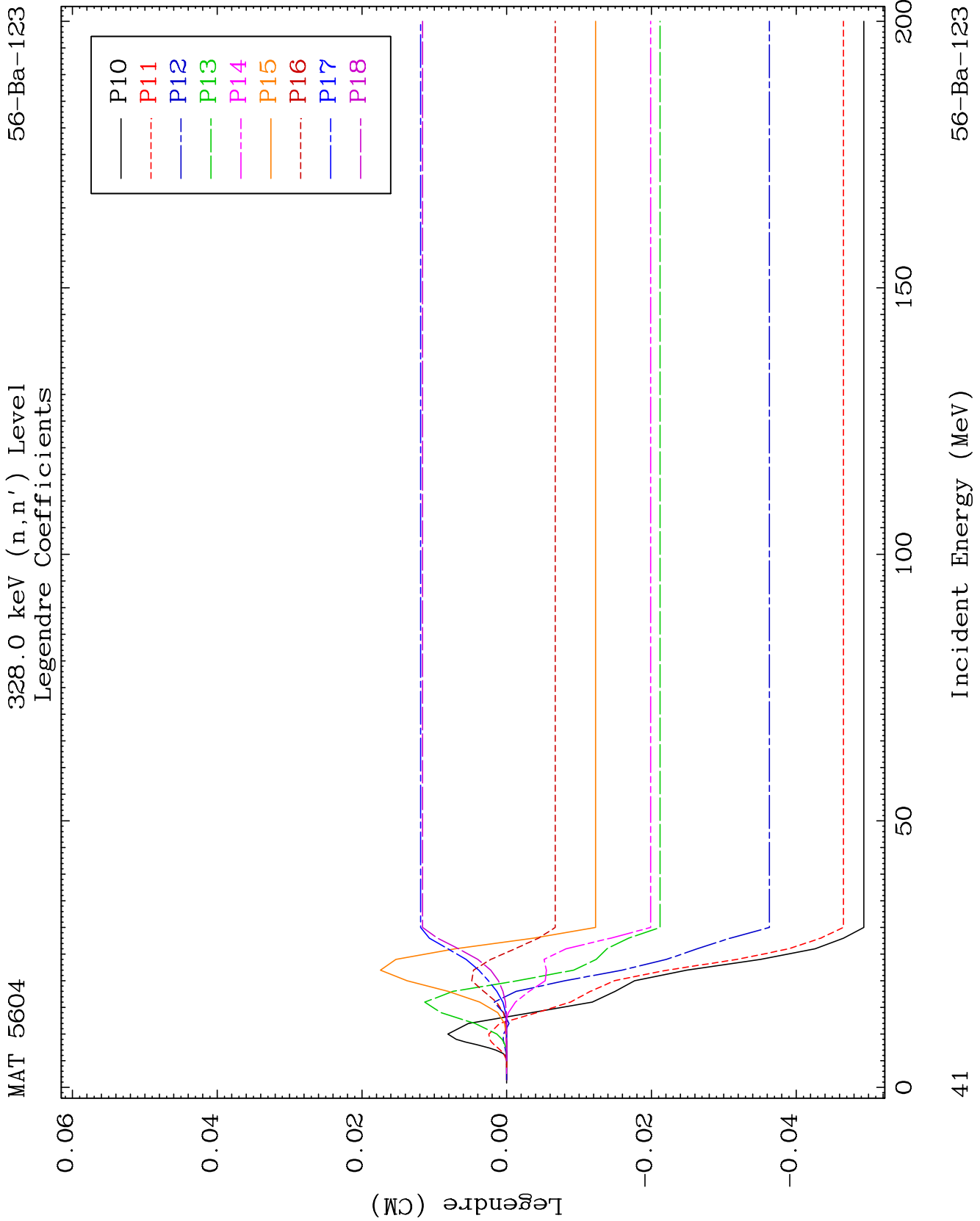
56-Ba-123

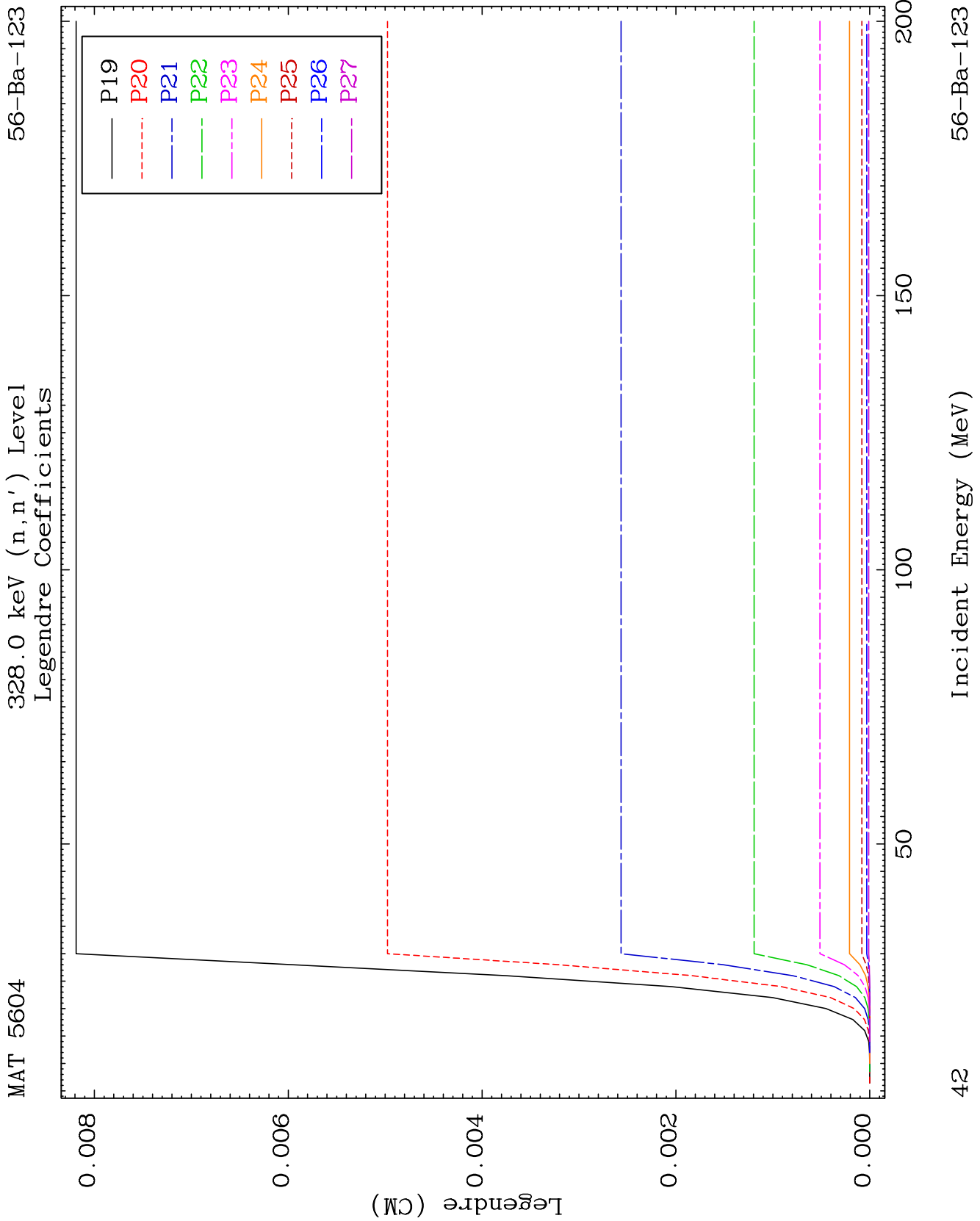


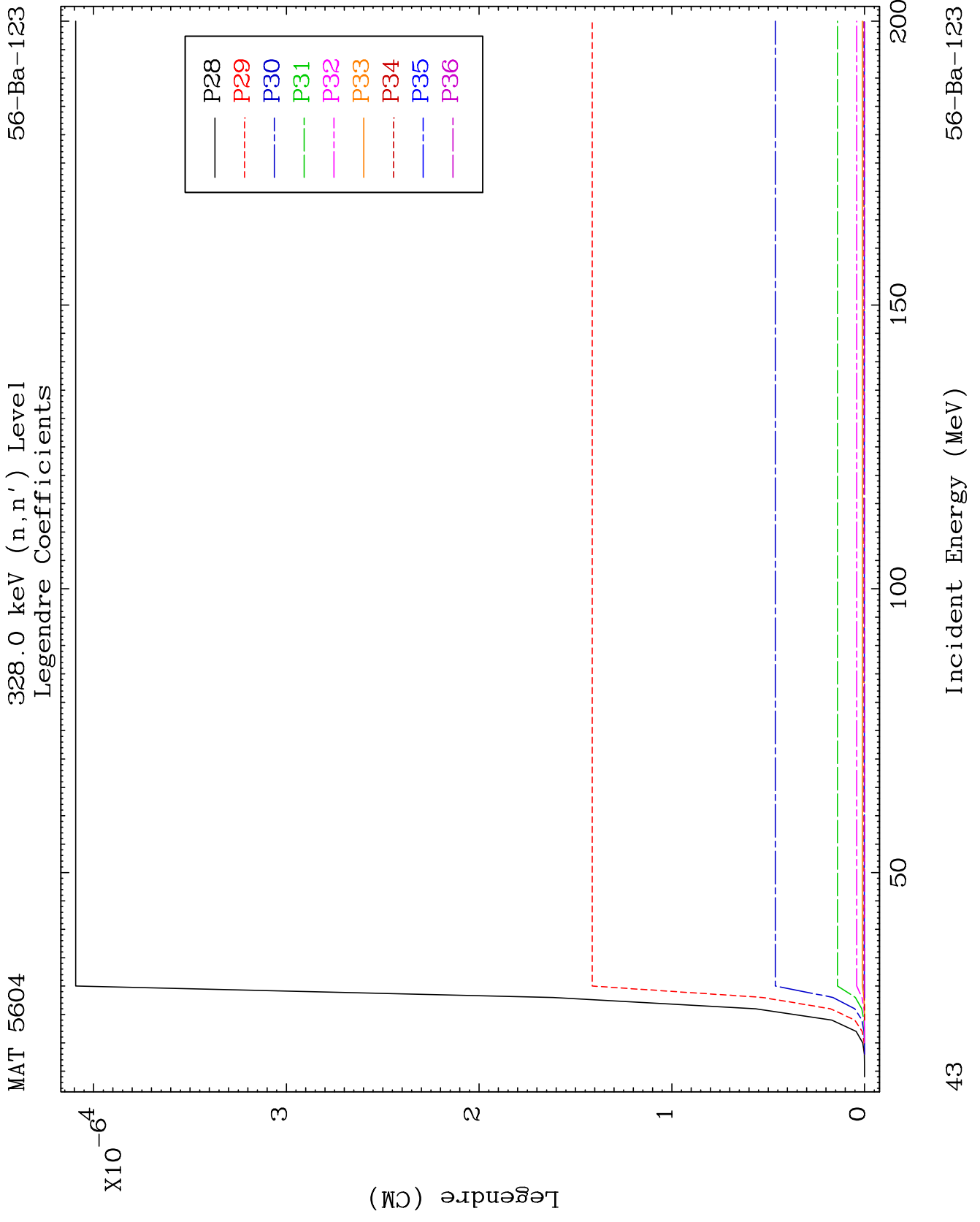
56-Ba-123

Incident Energy (MeV)

40



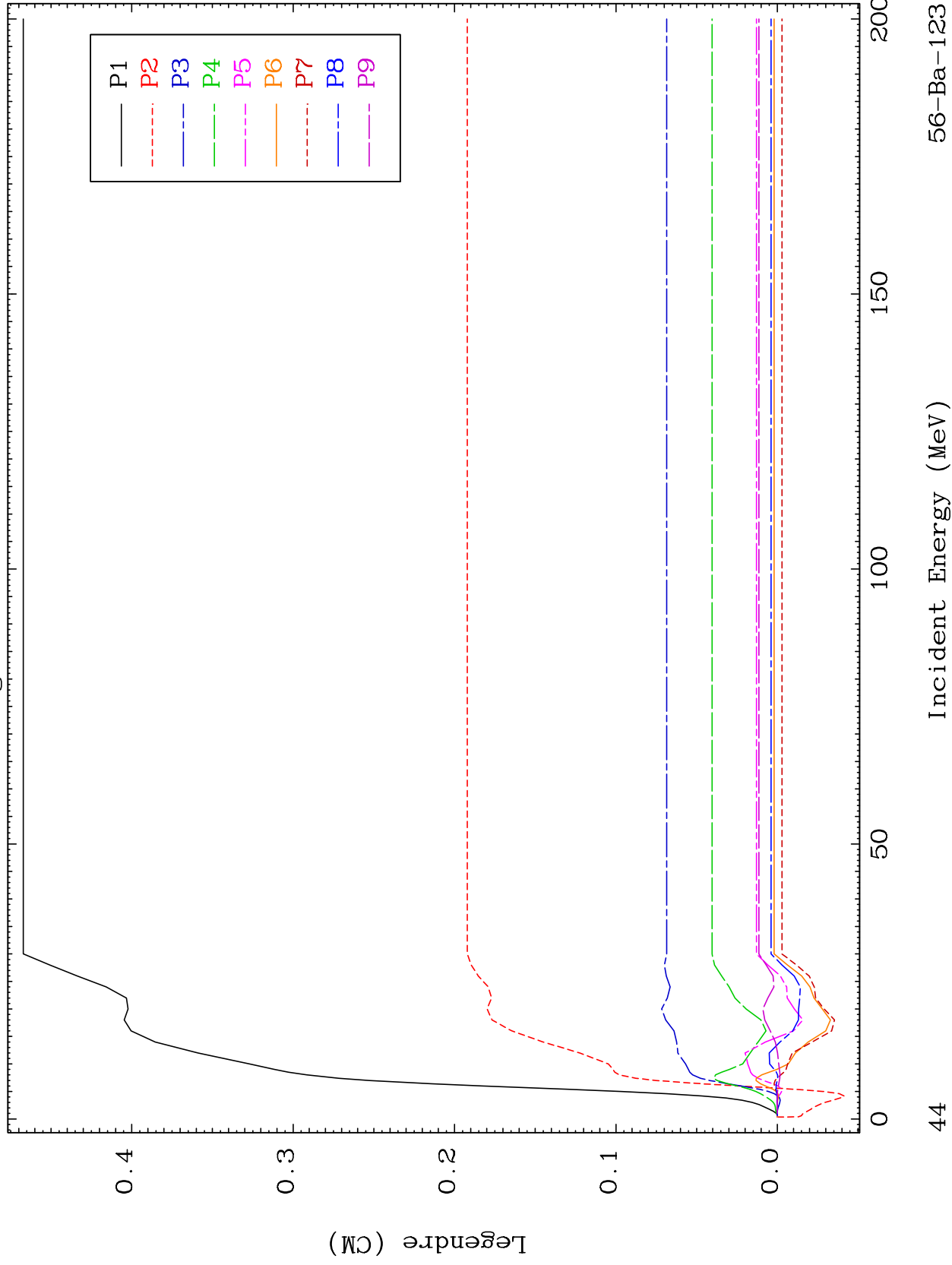




MAT 5604

335.5 keV (n, n') Level
Legendre Coefficients

56-Ba-123



56-Ba-123

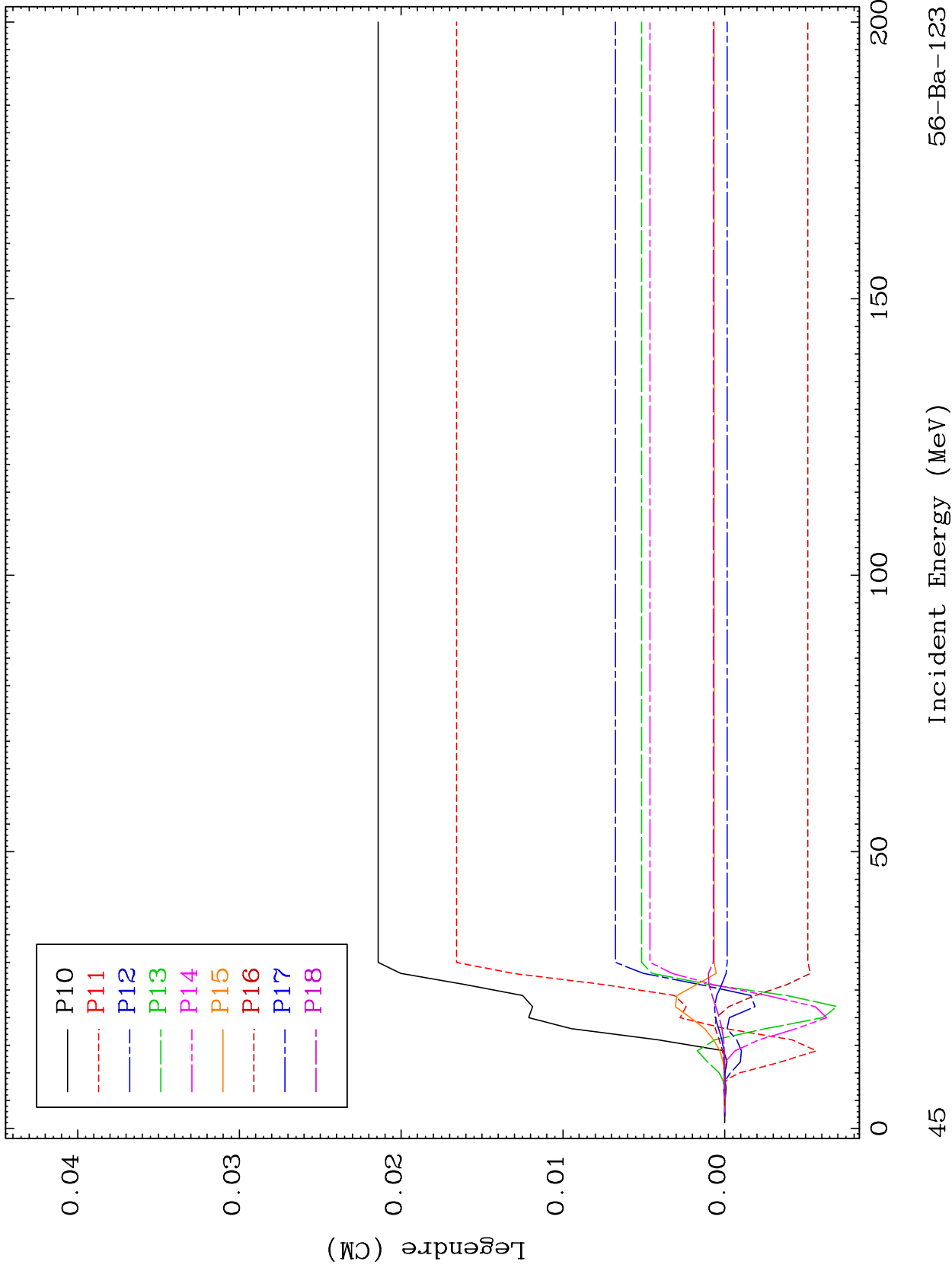
Incident Energy (MeV)

44

MAT 5604

335.5 keV (n,n') Level
Legendre Coefficients

56-Ba-123



56-Ba-123

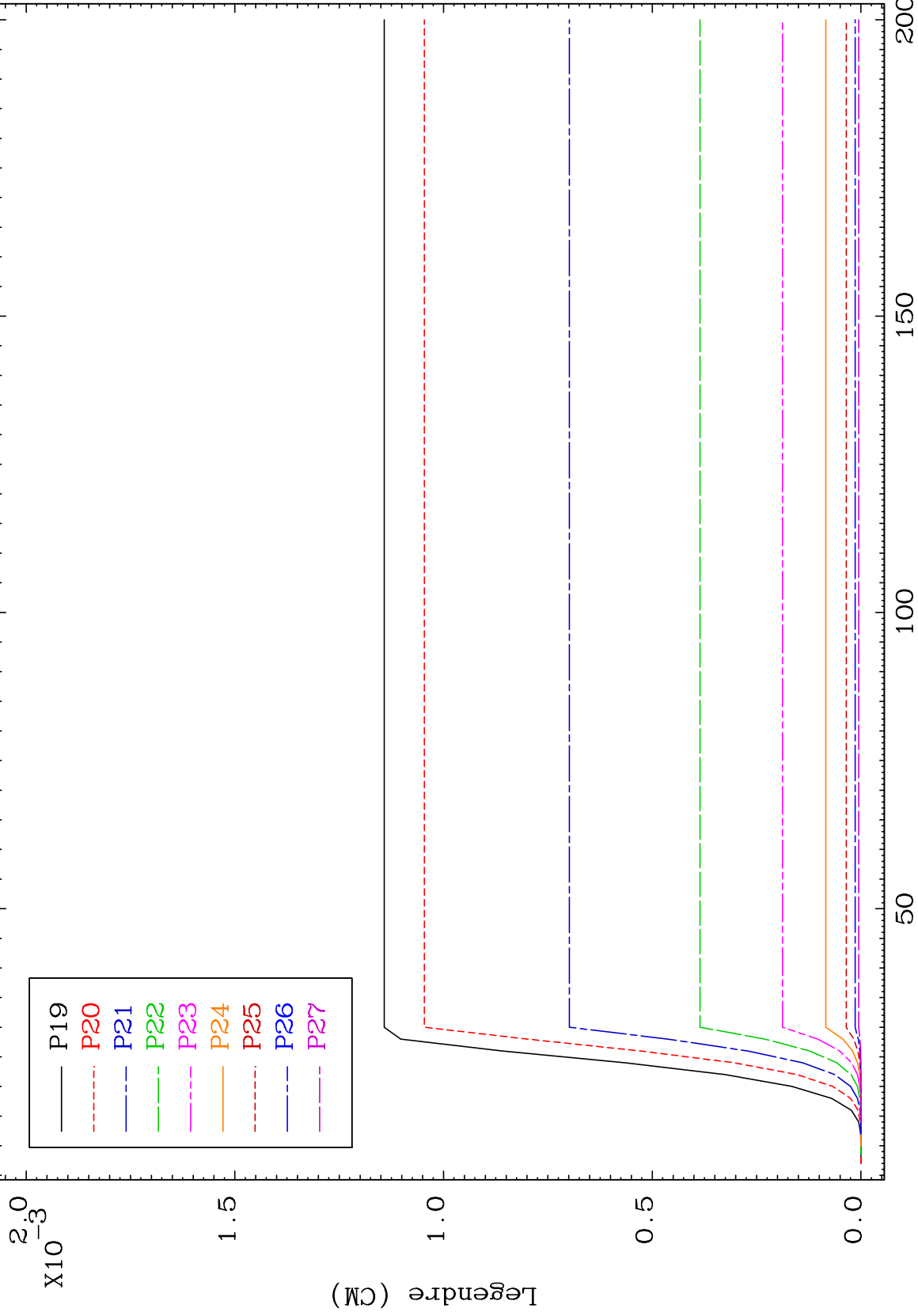
Incident Energy (MeV)

45

MAT 5604

335.5 keV (n,n') Level
Legendre Coefficients

56-Ba-123



46

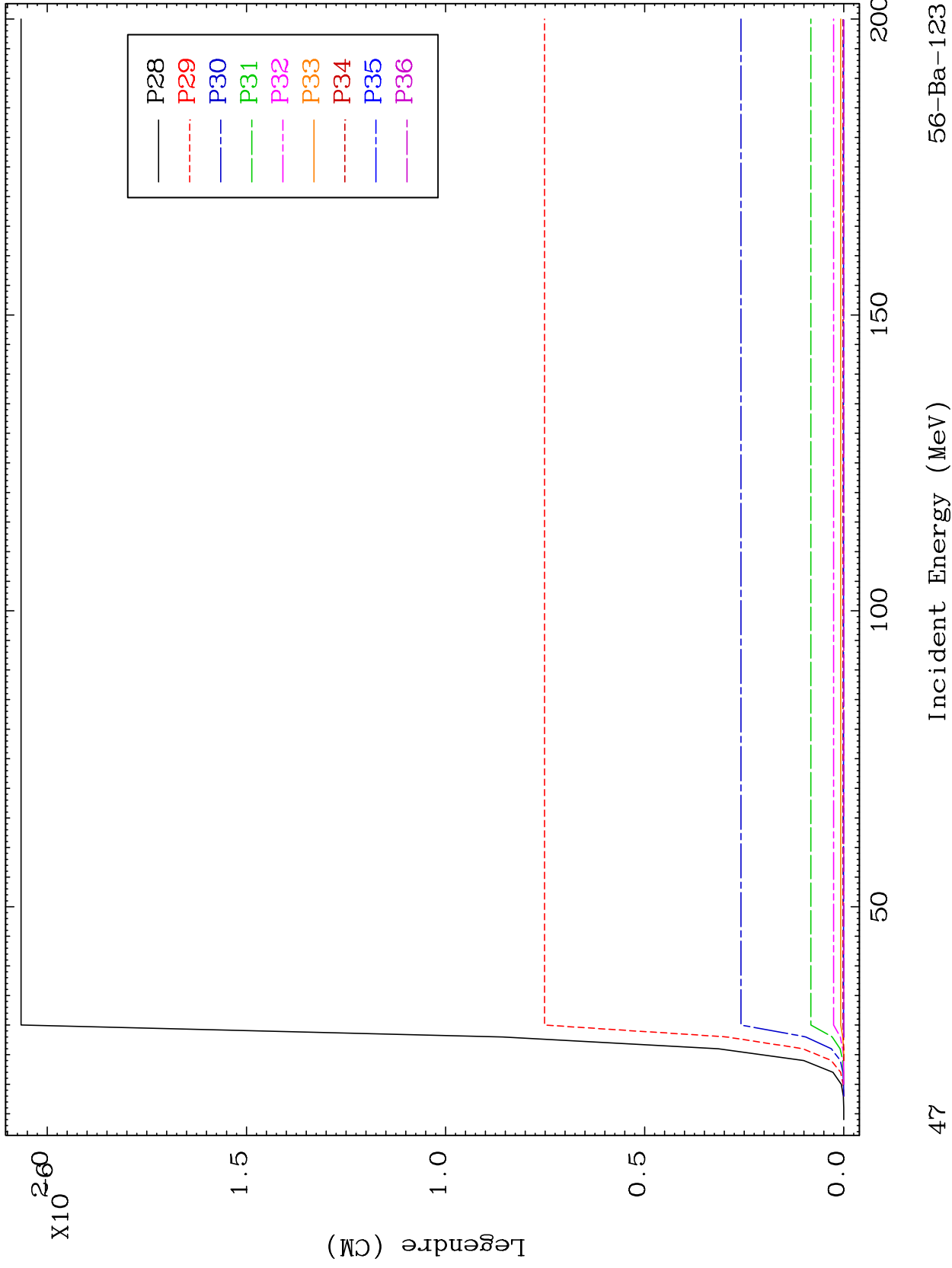
Incident Energy (MeV)

56-Ba-123

MAT 5604

335.5 keV (n,n') Level
Legendre Coefficients

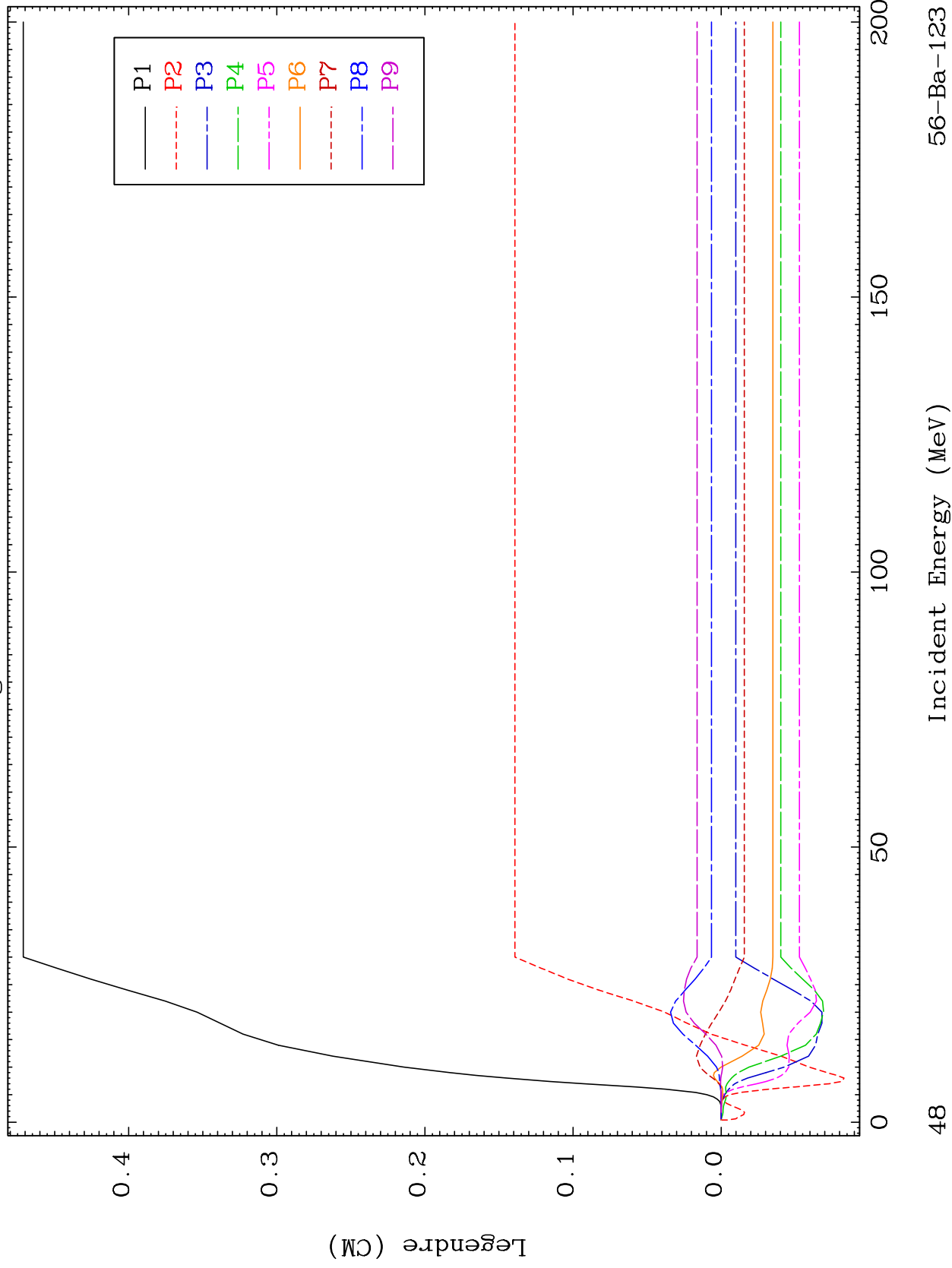
56-Ba-123



MAT 5604

374.2 keV (n, n') Level
Legendre Coefficients

56-Ba-123



56-Ba-123

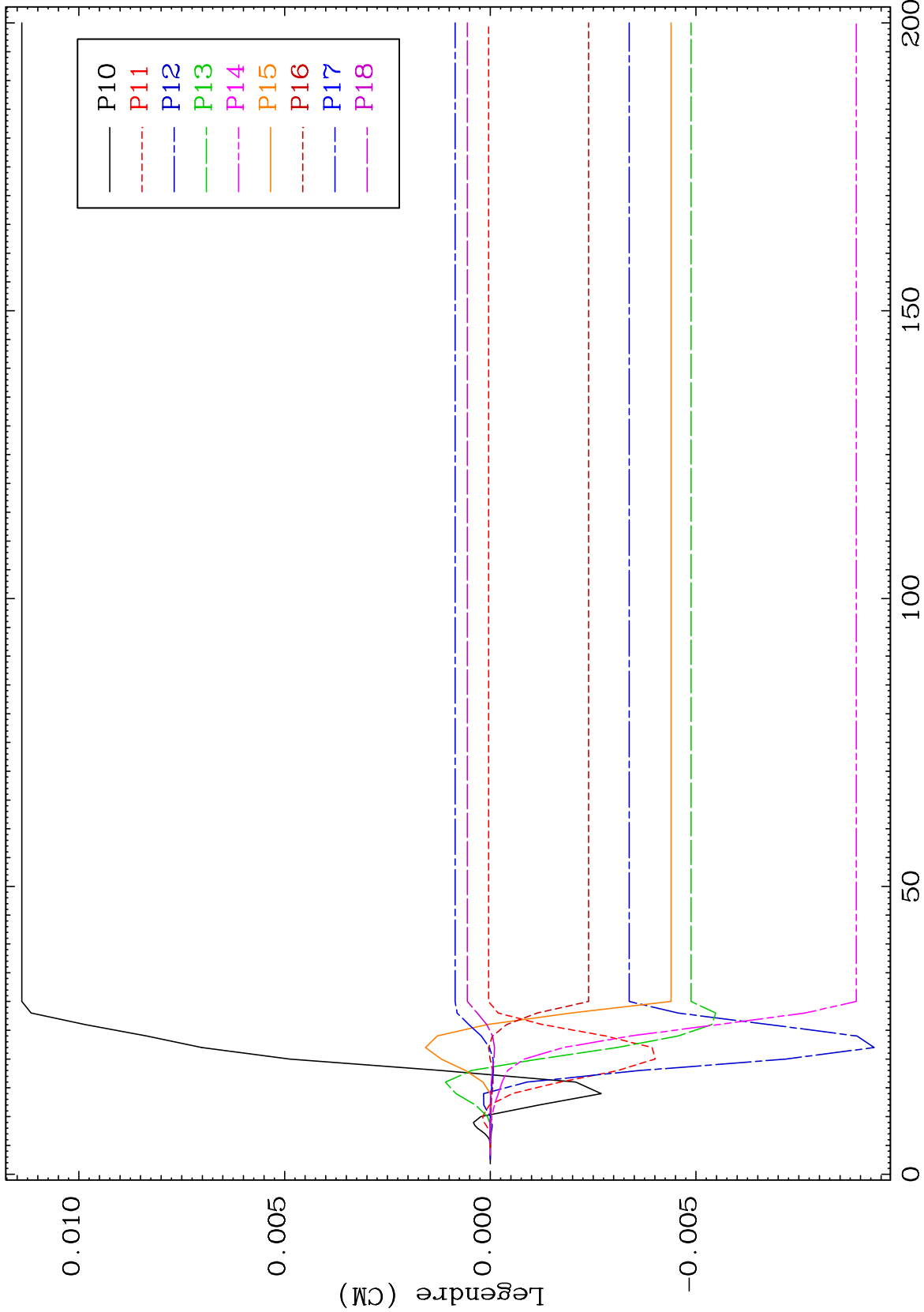
Incident Energy (MeV)

48

MAT 5604

374.2 keV (n,n') Level
Legendre Coefficients

56-Ba-123



49

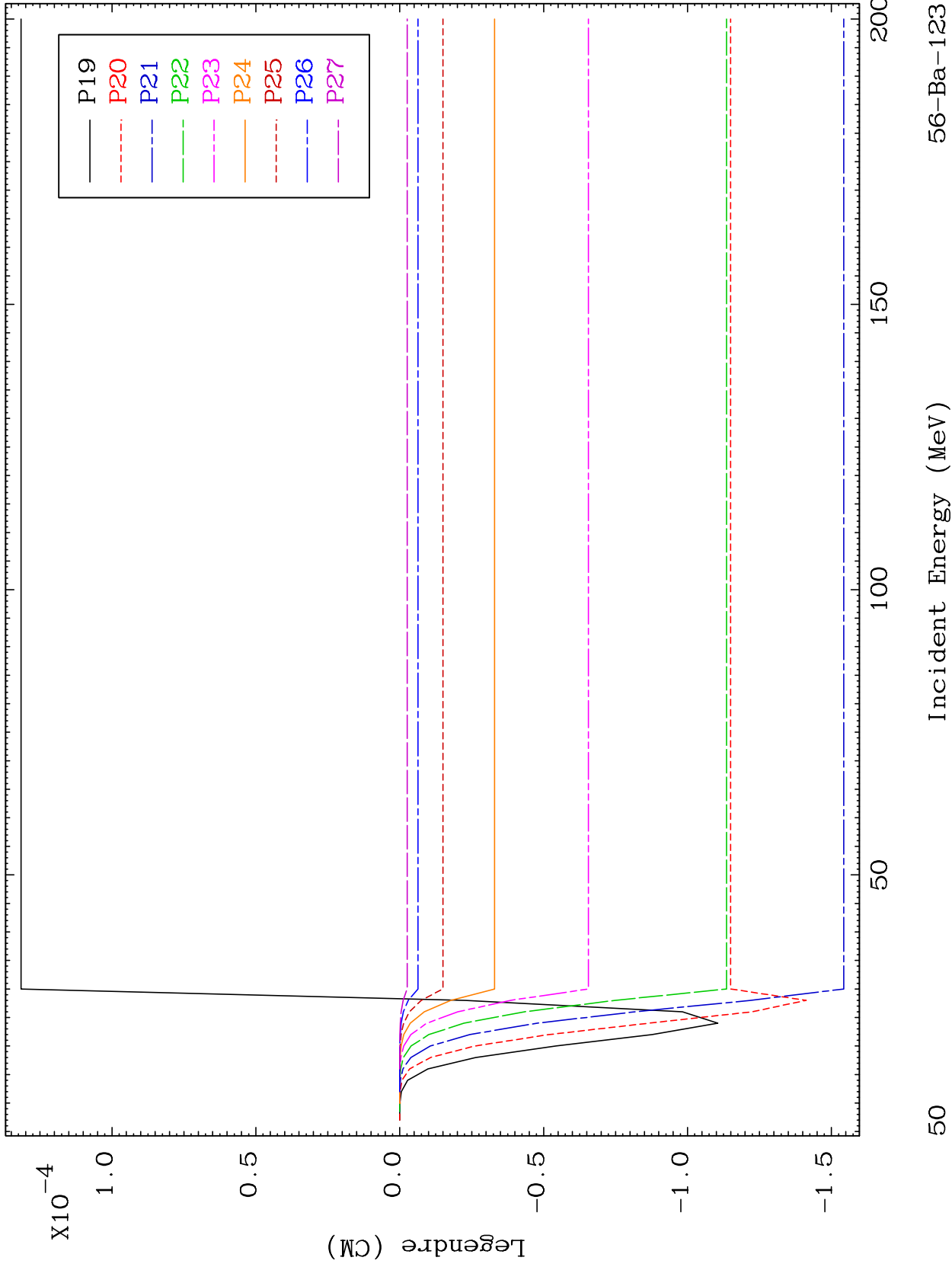
Incident Energy (MeV)

56-Ba-123

MAT 5604

374.2 keV (n,n') Level
Legendre Coefficients

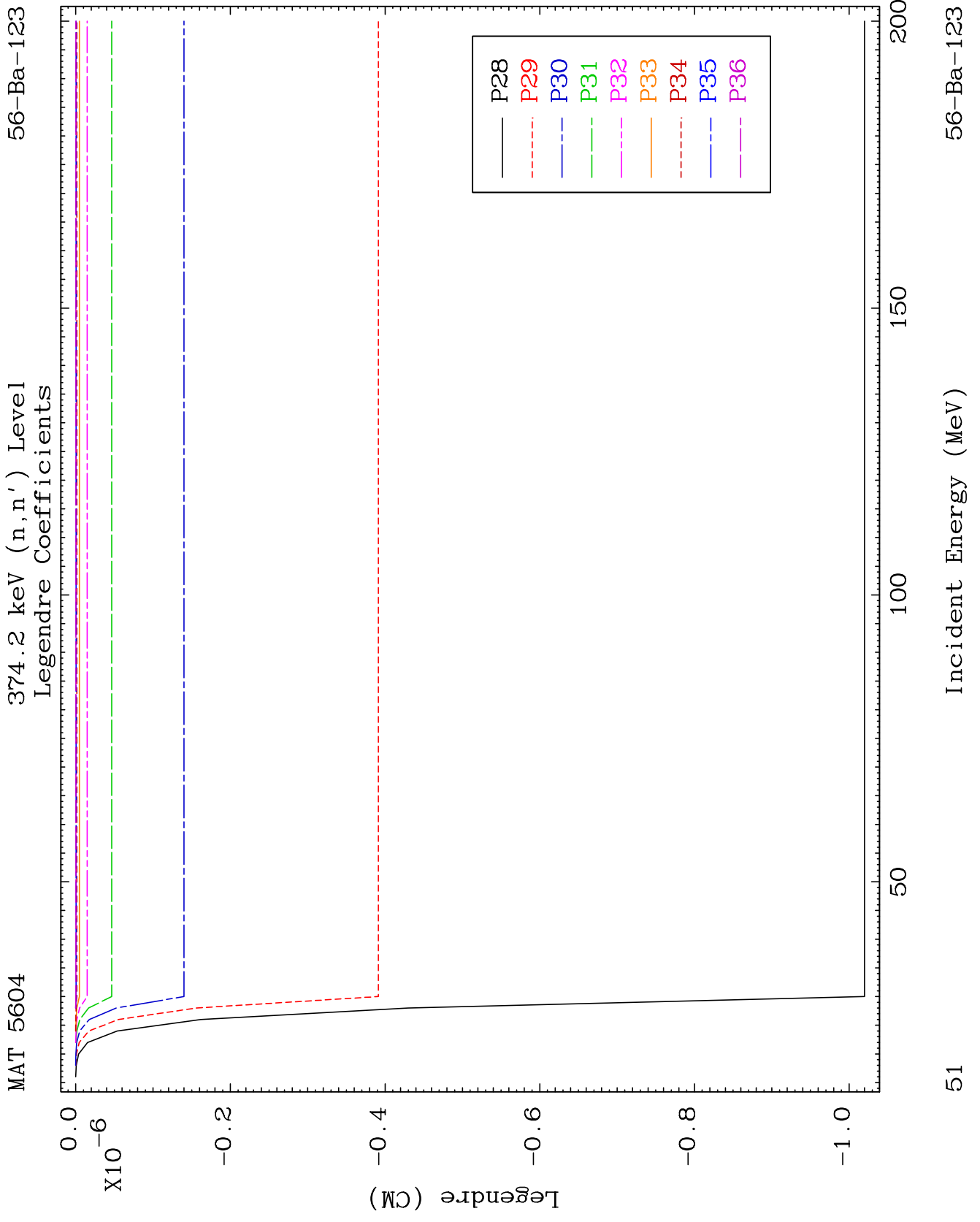
56-Ba-123



50

Incident Energy (MeV)

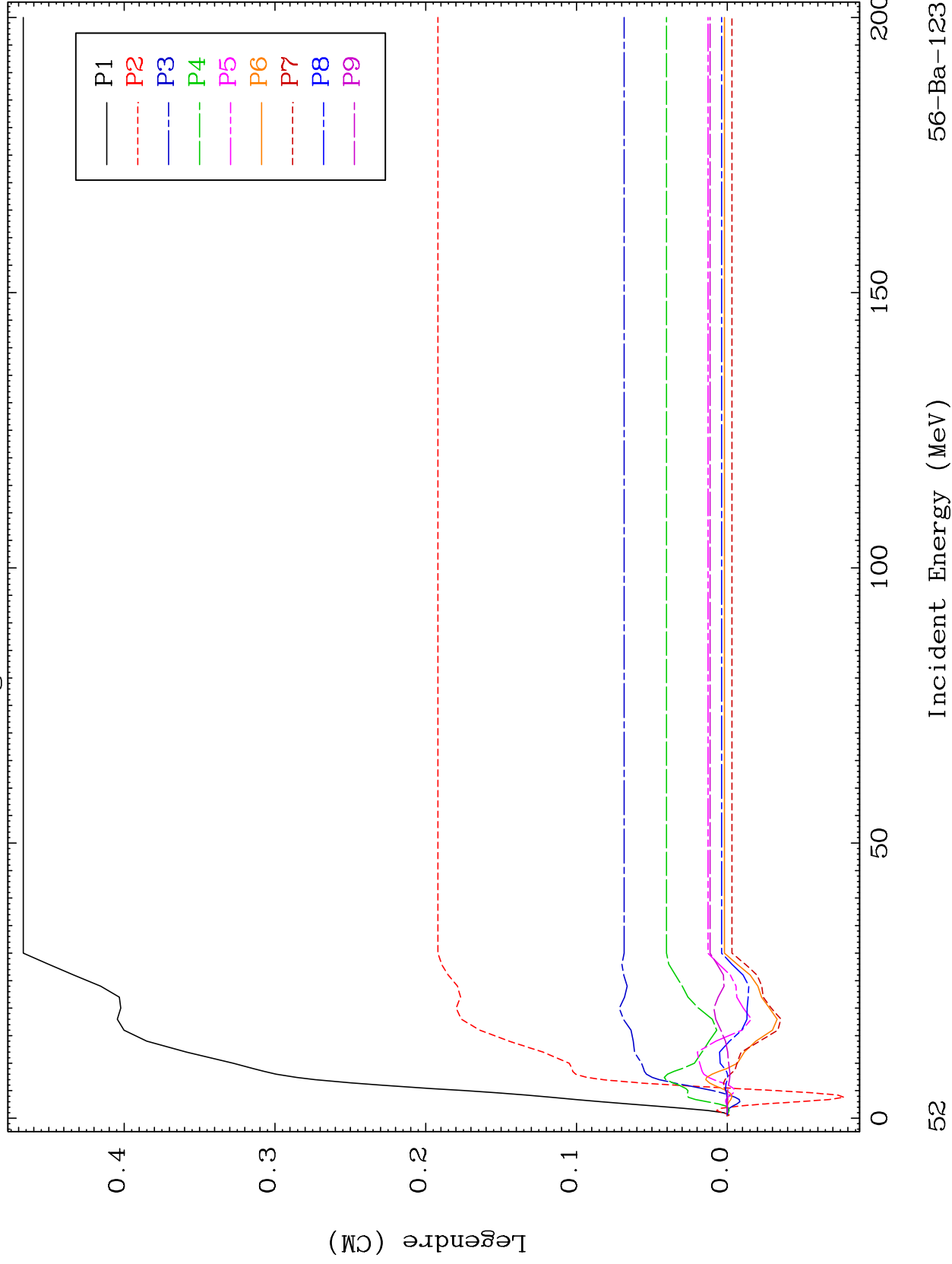
56-Ba-123



MAT 5604

397.5 keV (n,n') Level
Legendre Coefficients

56-Ba-123



56-Ba-123

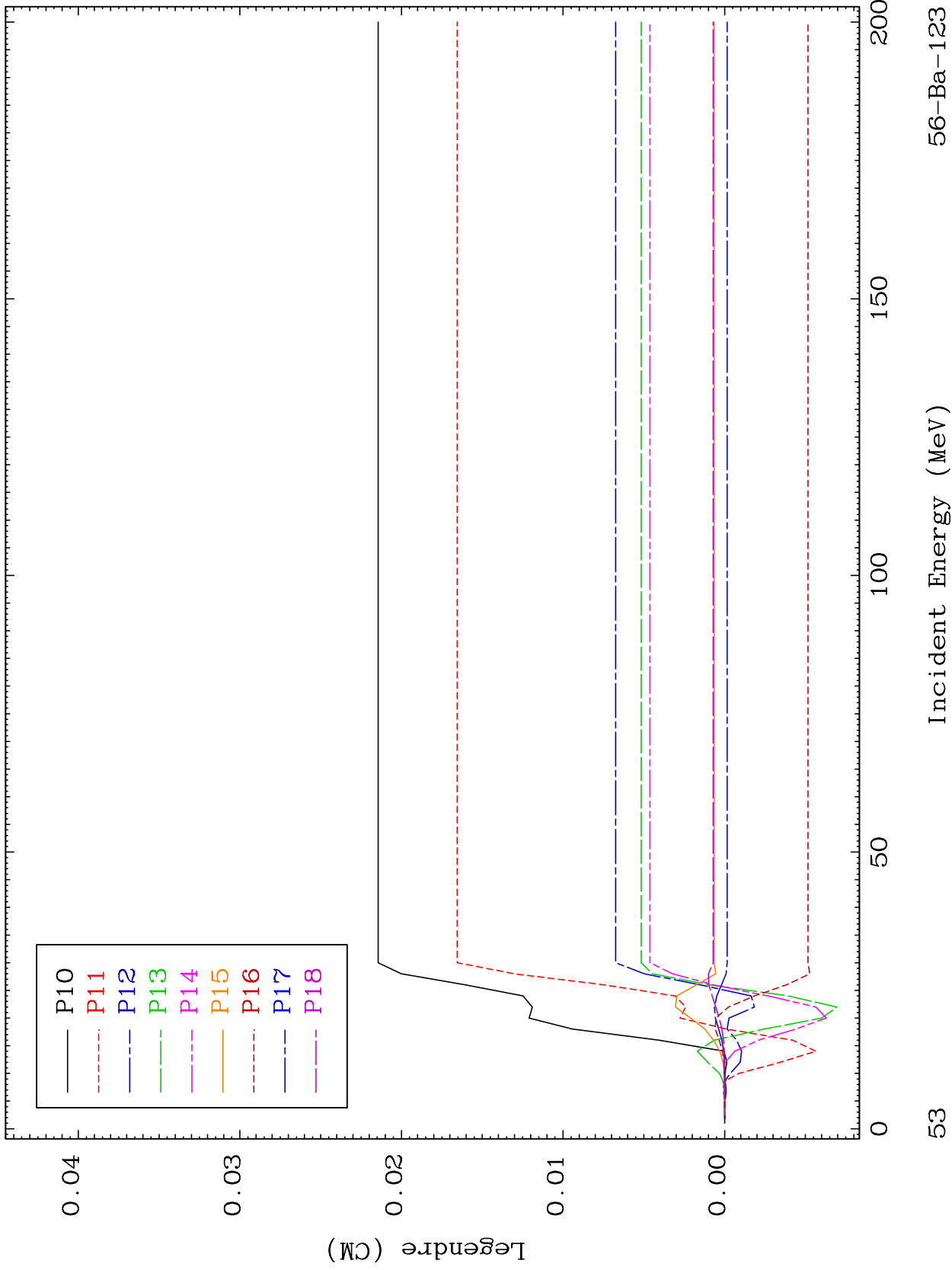
Incident Energy (MeV)

52

MAT 5604

397.5 keV (n,n') Level
Legendre Coefficients

56-Ba-123



56-Ba-123

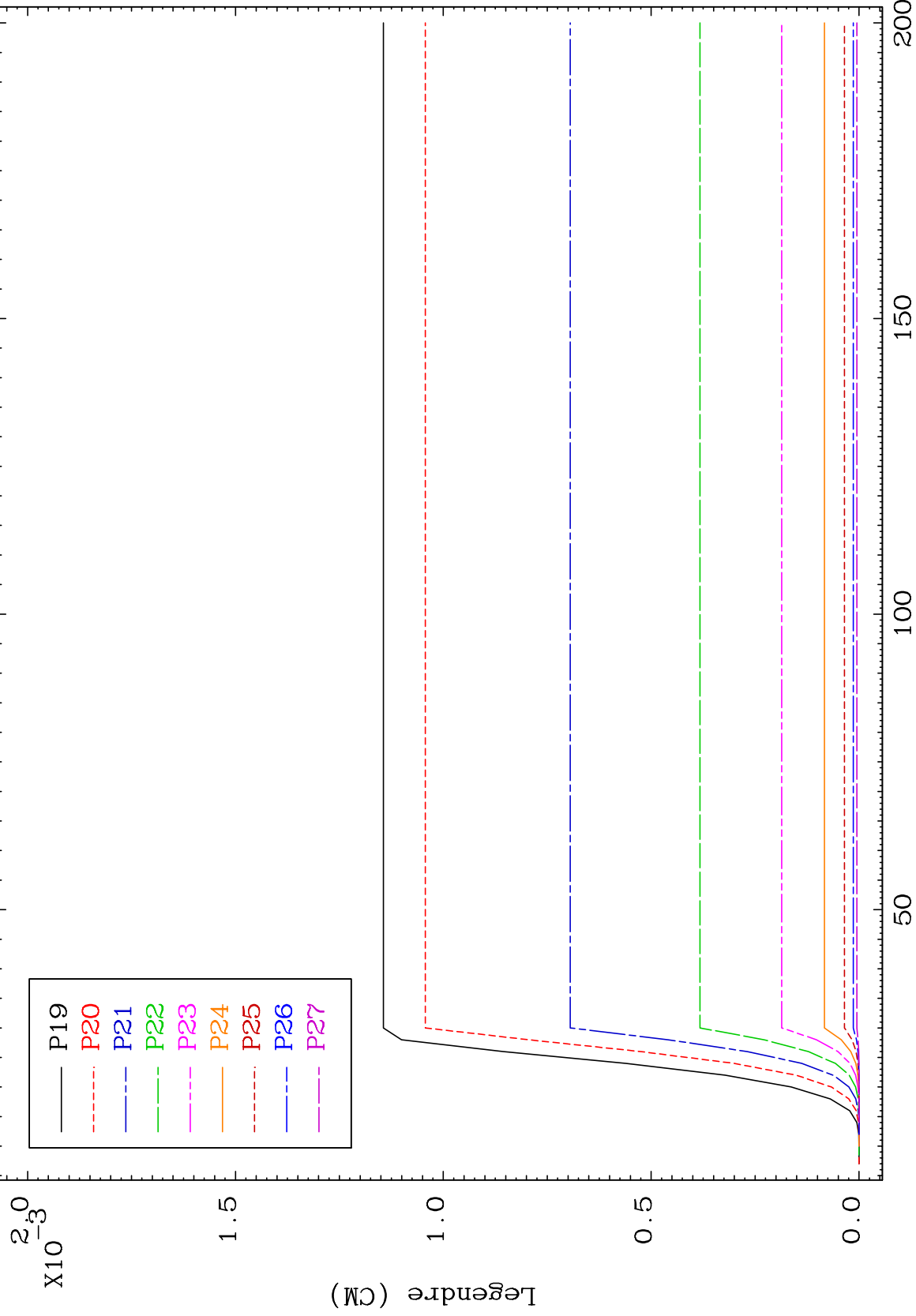
Incident Energy (MeV)

53

MAT 5604

397.5 keV (n,n') Level
Legendre Coefficients

56-Ba-123



54

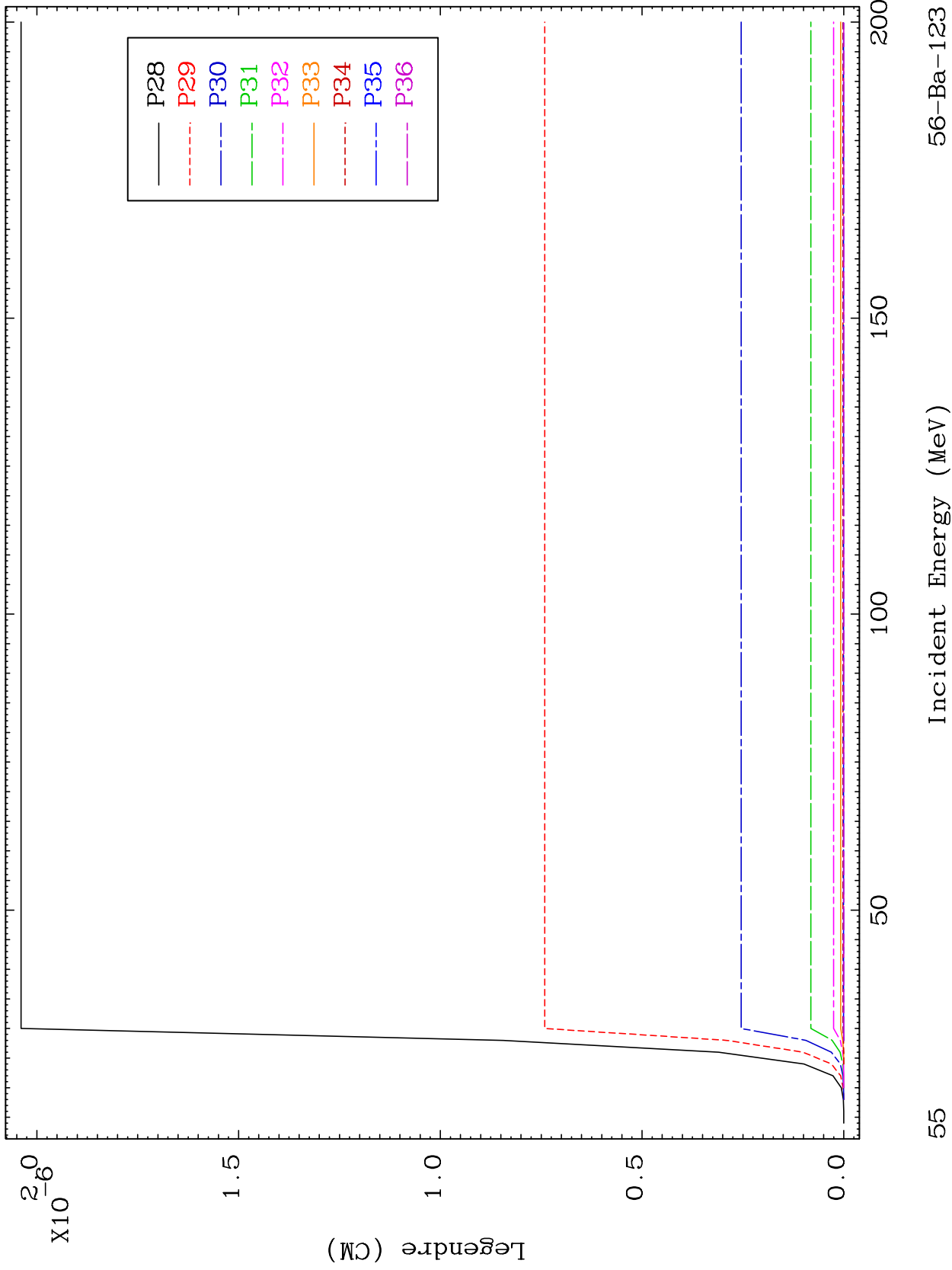
Incident Energy (MeV)

56-Ba-123

MAT 5604

397.5 keV (n,n') Level
Legendre Coefficients

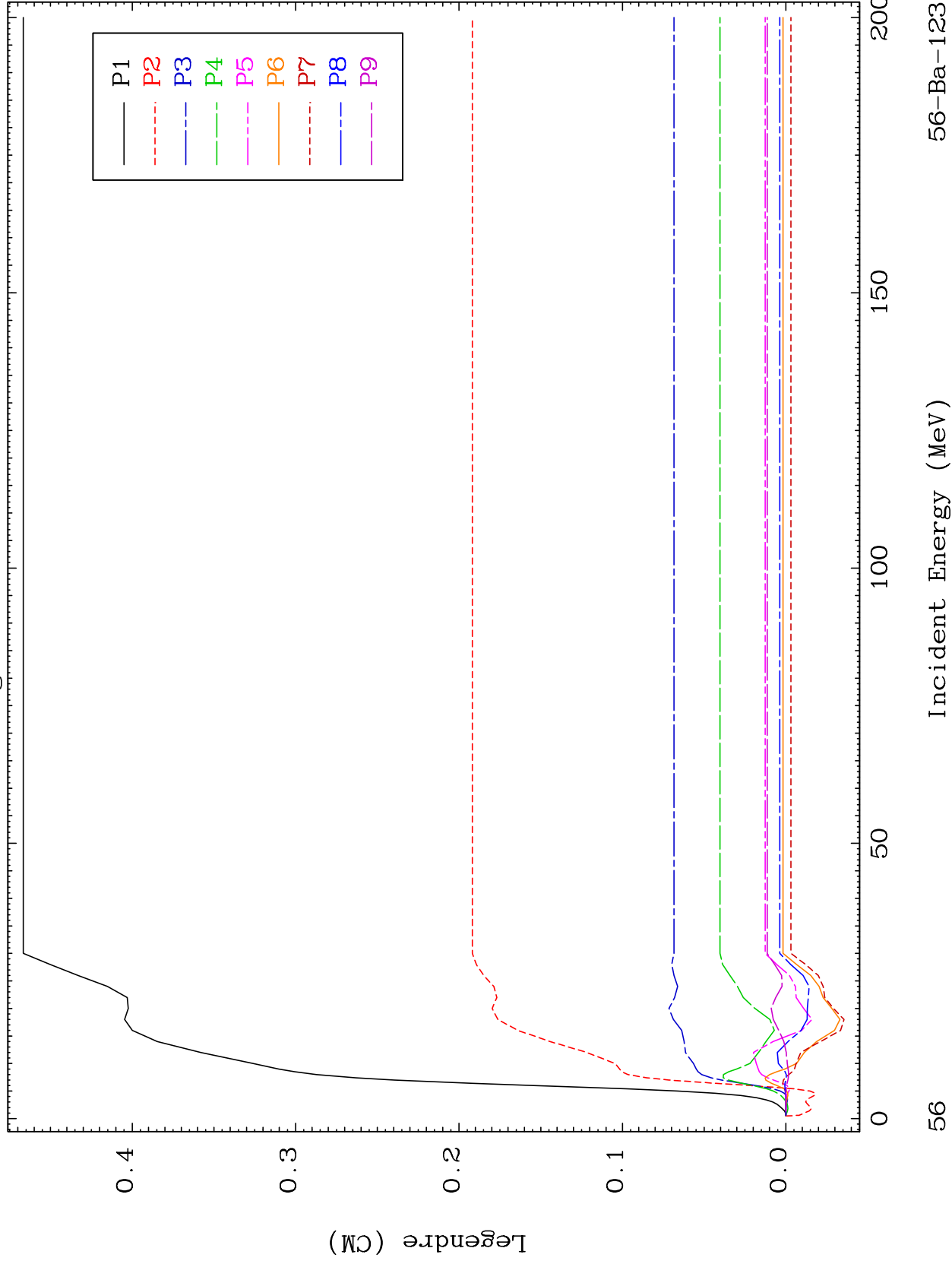
56-Ba-123



MAT 5604

460.7 keV (n, n') Level
Legendre Coefficients

56-Ba-123



56-Ba-123

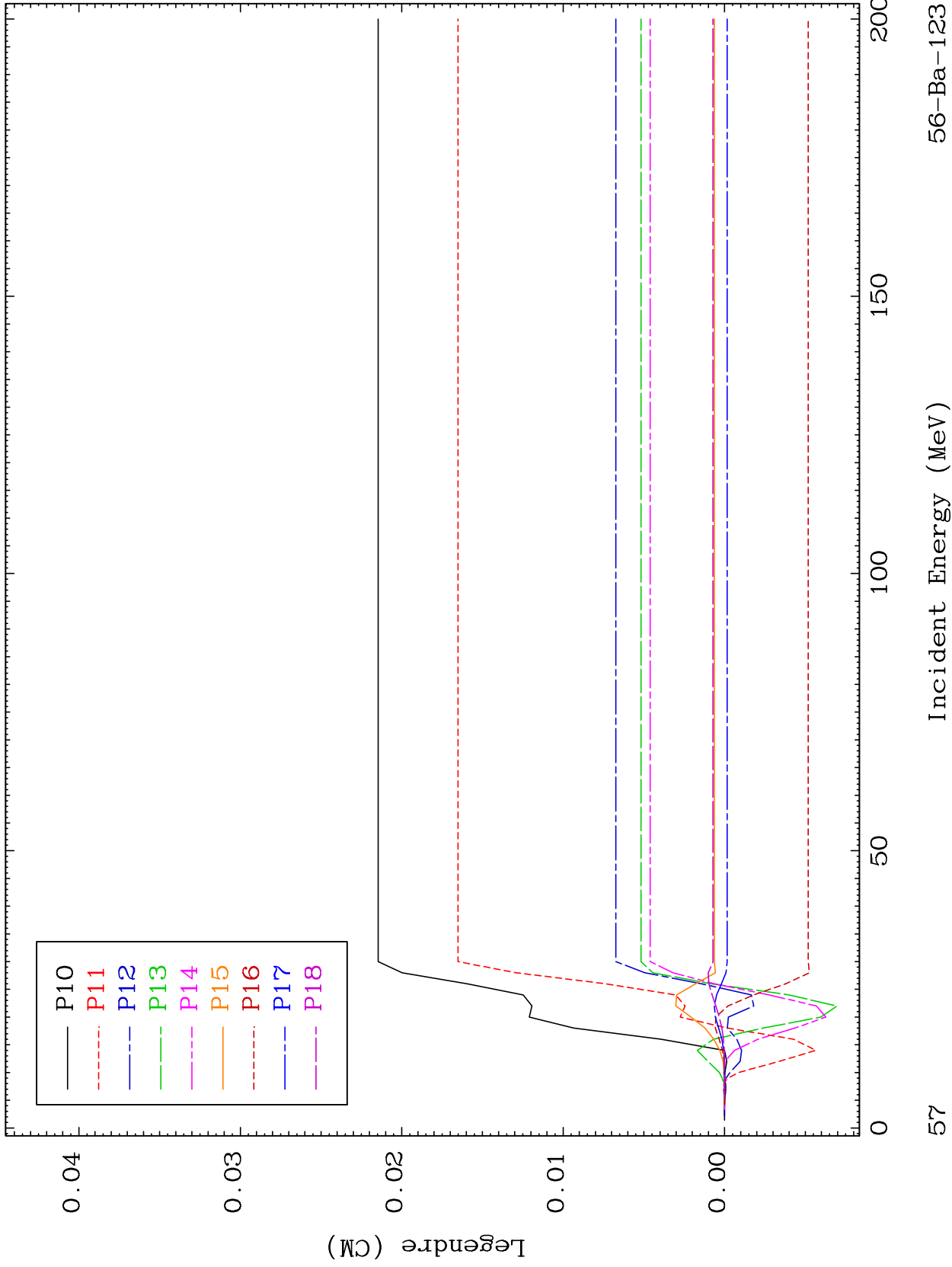
Incident Energy (MeV)

56

MAT 5604

460.7 keV (n,n') Level
Legendre Coefficients

56-Ba-123



56-Ba-123

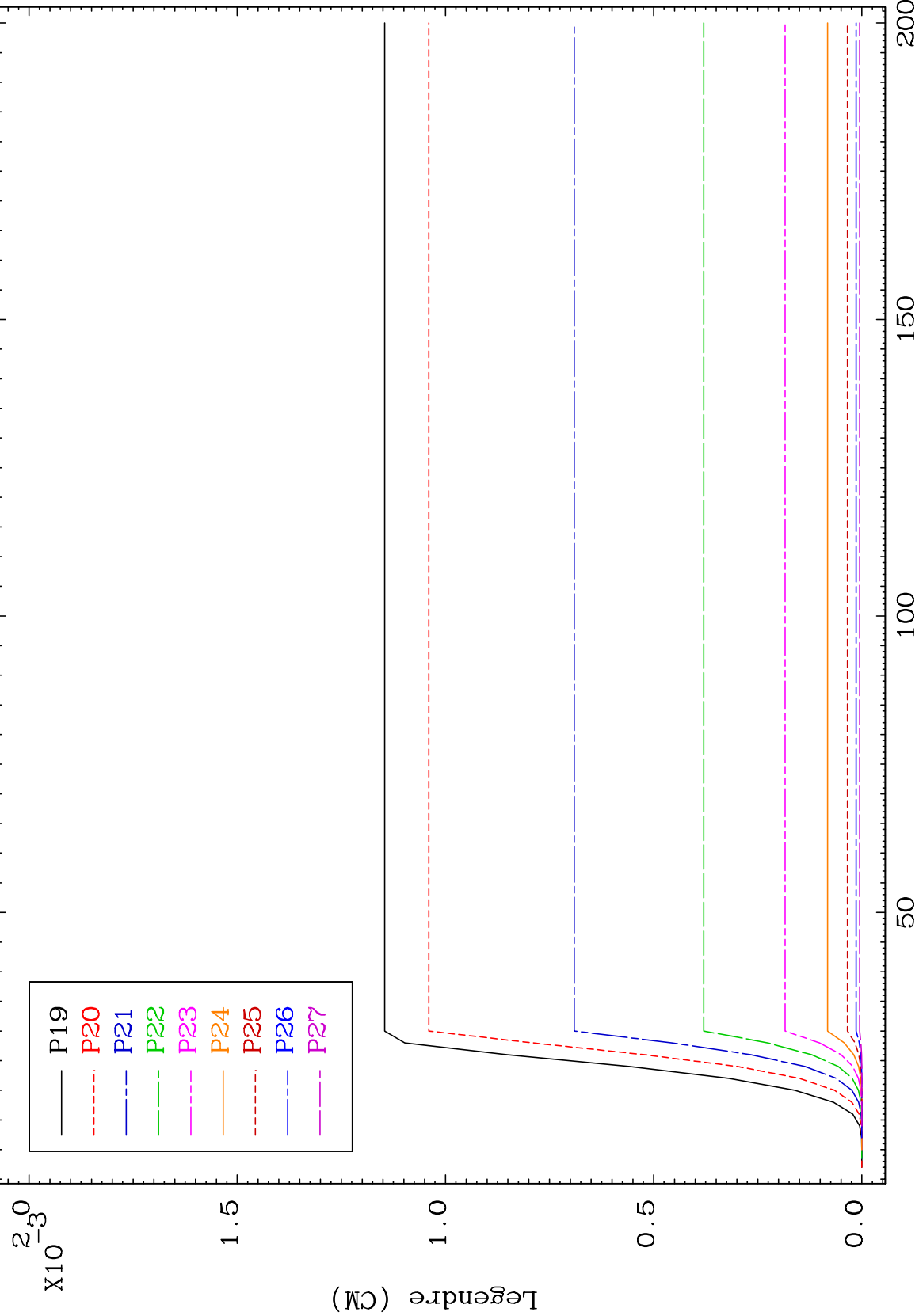
Incident Energy (MeV)

57

MAT 5604

460.7 keV (n,n') Level
Legendre Coefficients

56-Ba-123



58

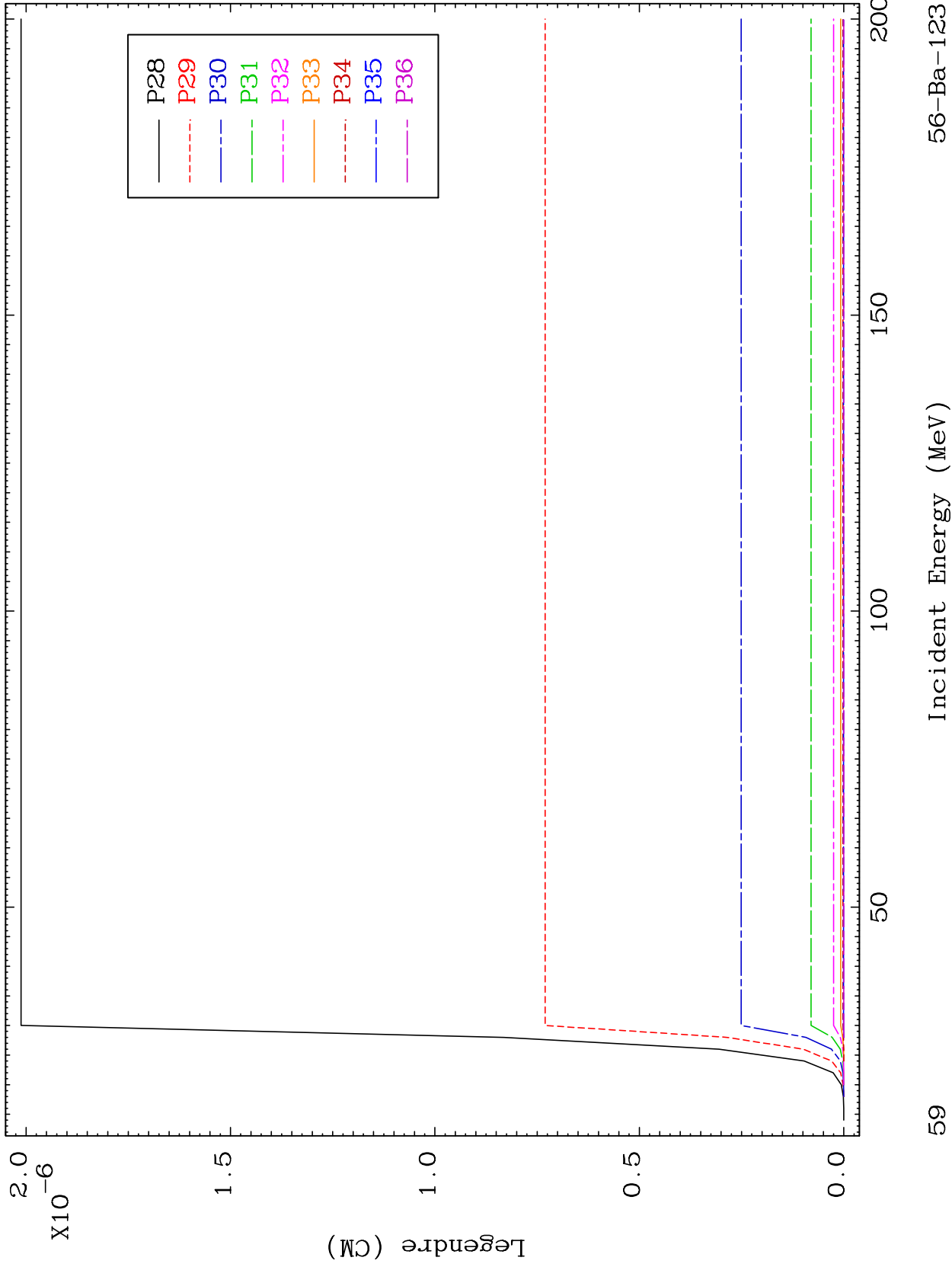
Incident Energy (MeV)

56-Ba-123

MAT 5604

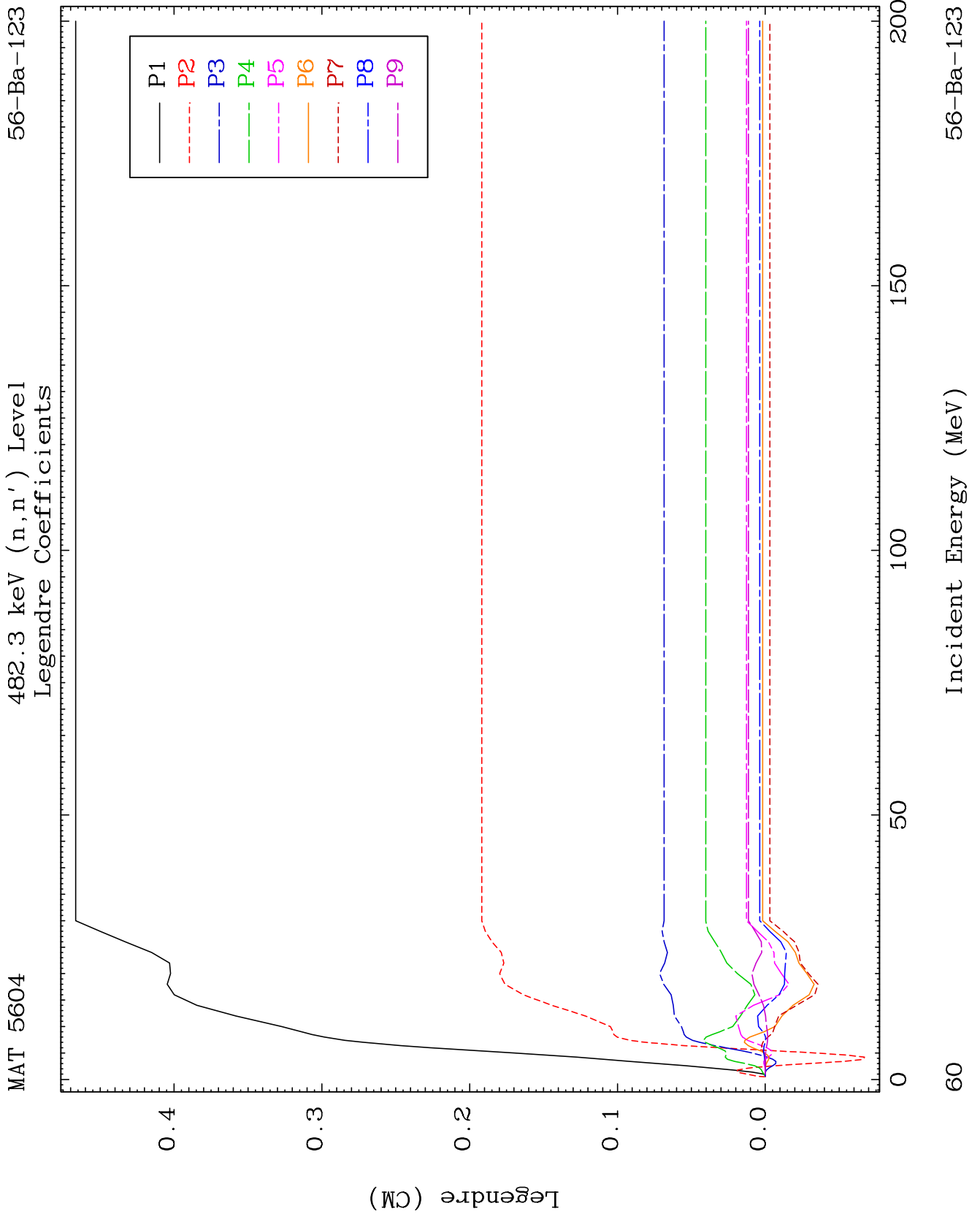
460.7 keV (n,n') Level
Legendre Coefficients

56-Ba-123



59

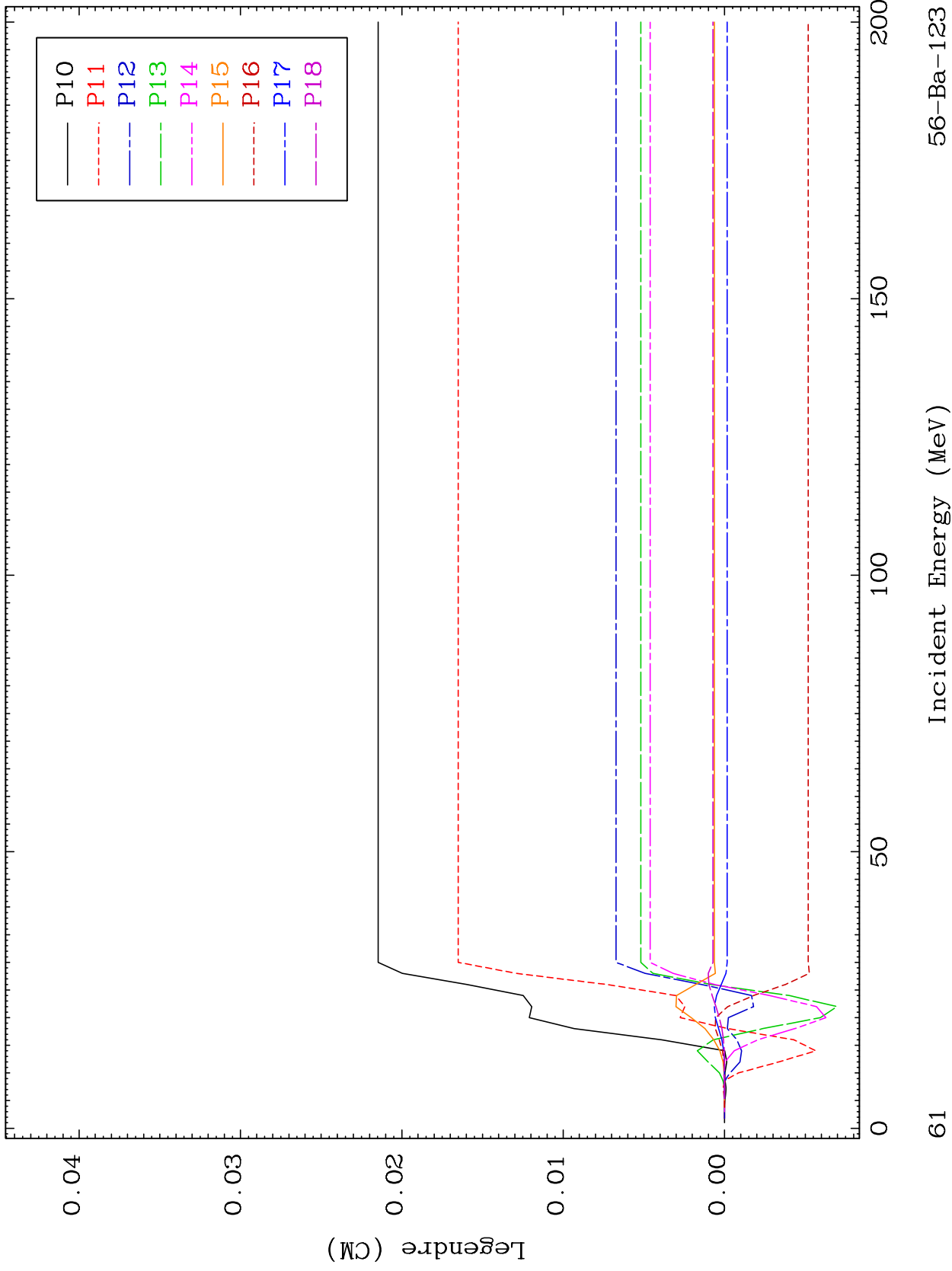
56-Ba-123



MAT 5604

482.3 keV (n,n') Level
Legendre Coefficients

56-Ba-123



61

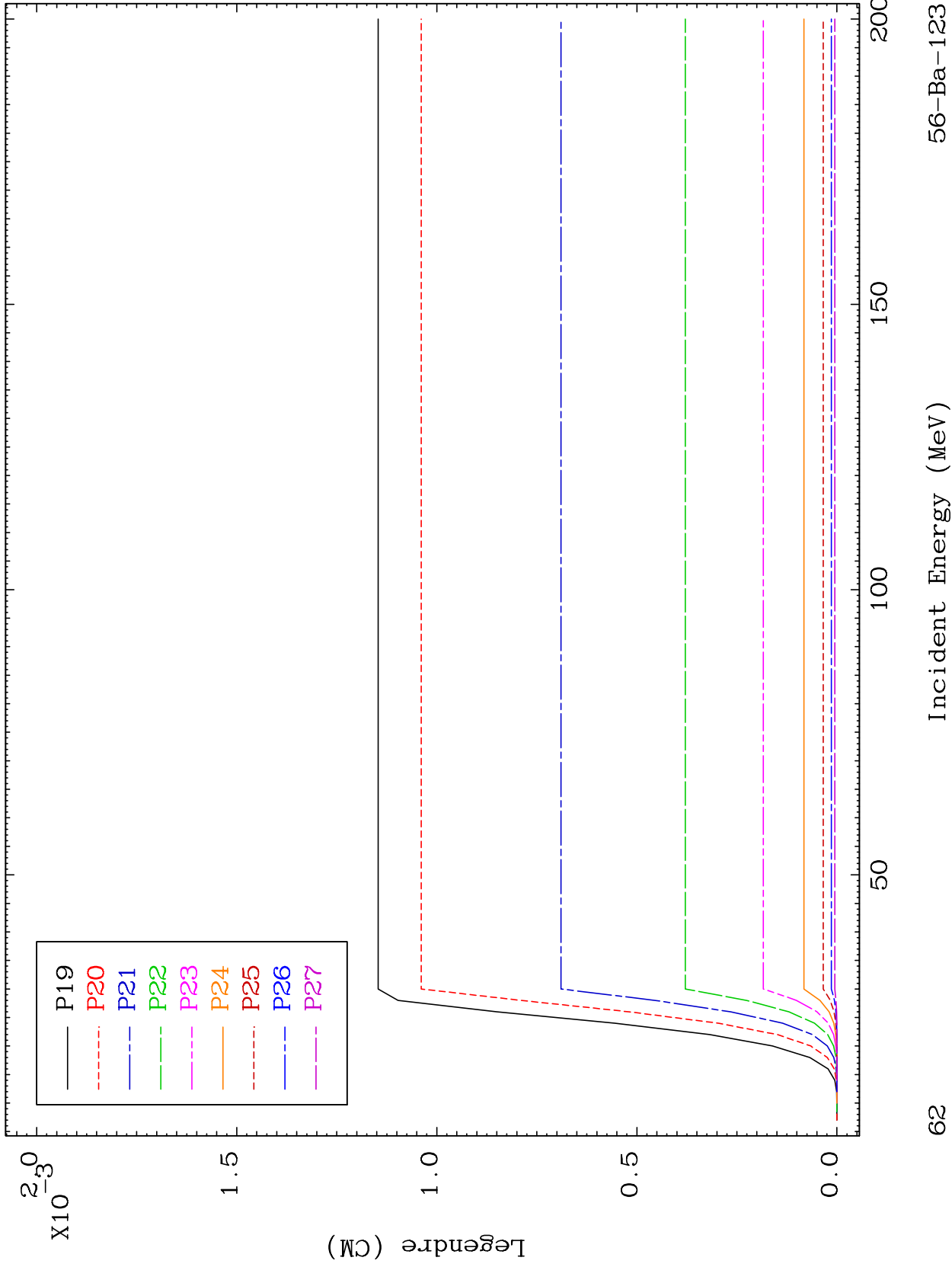
Incident Energy (MeV)

56-Ba-123

MAT 5604

482.3 keV (n,n') Level
Legendre Coefficients

56-Ba-123

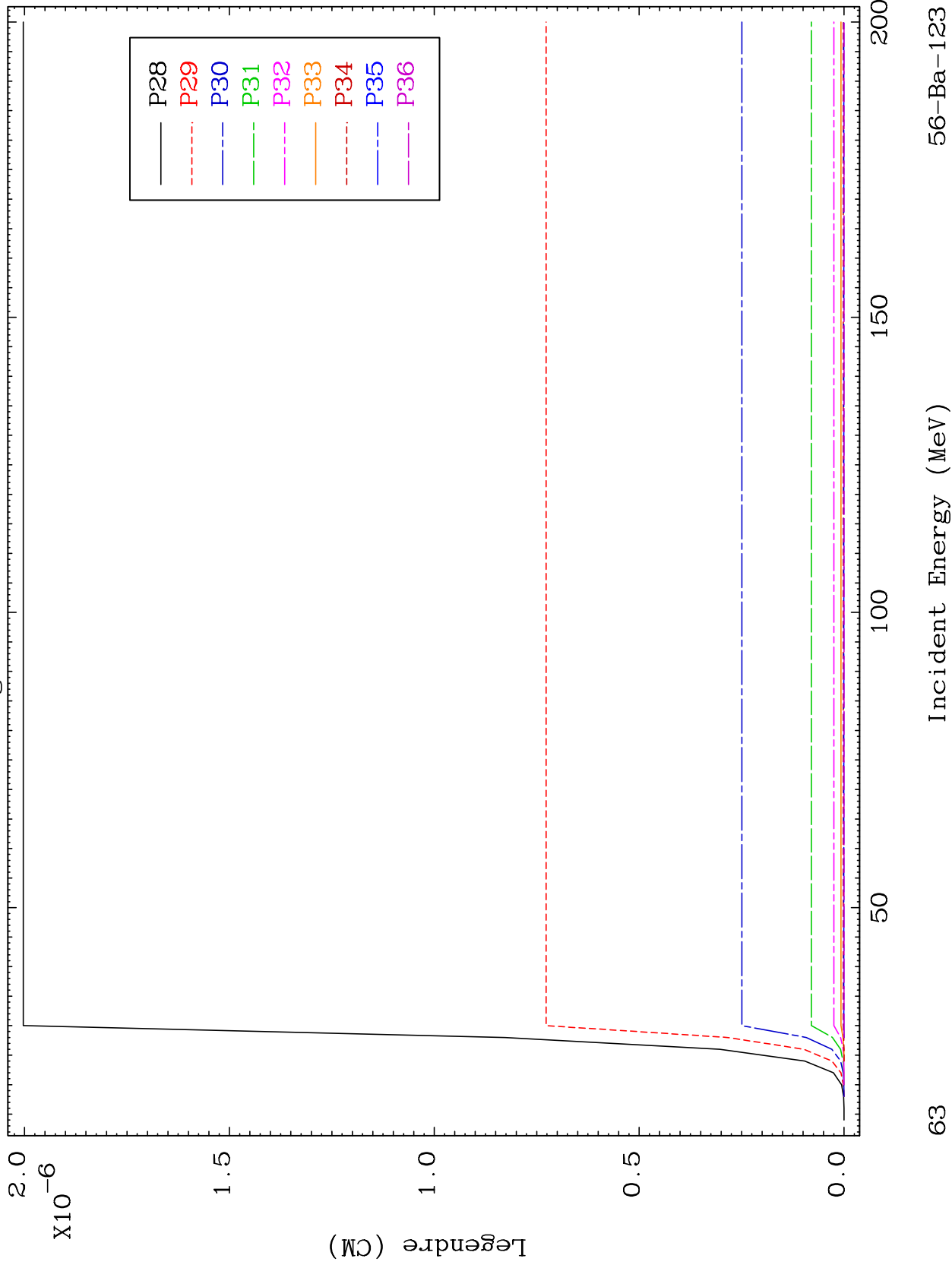


62

MAT 5604

482.3 keV (n,n') Level
Legendre Coefficients

56-Ba-123



63

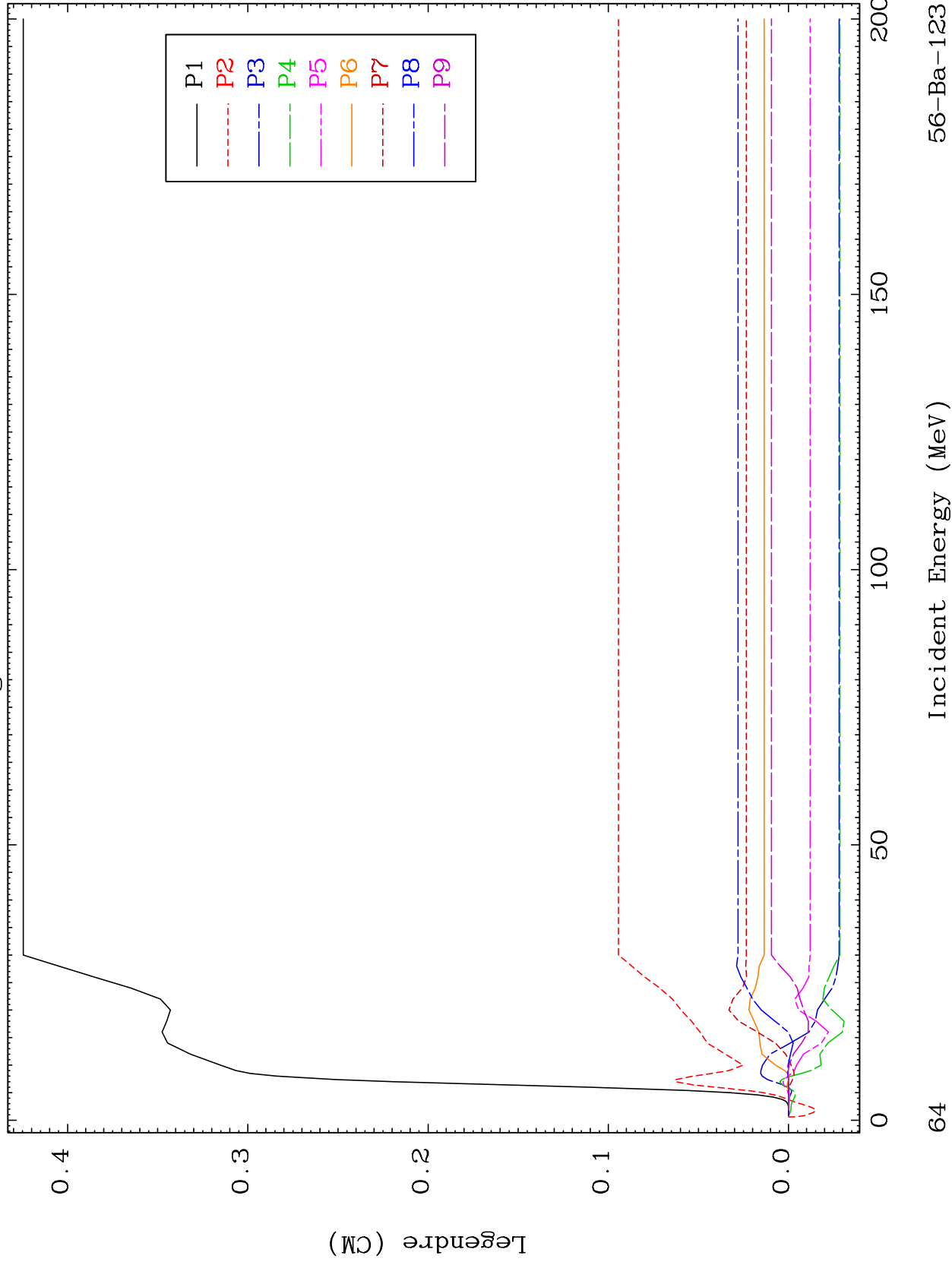
Incident Energy (MeV)

56-Ba-123

MAT 5604

564.3 keV (n,n') Level
Legendre Coefficients

56-Ba-123



56-Ba-123

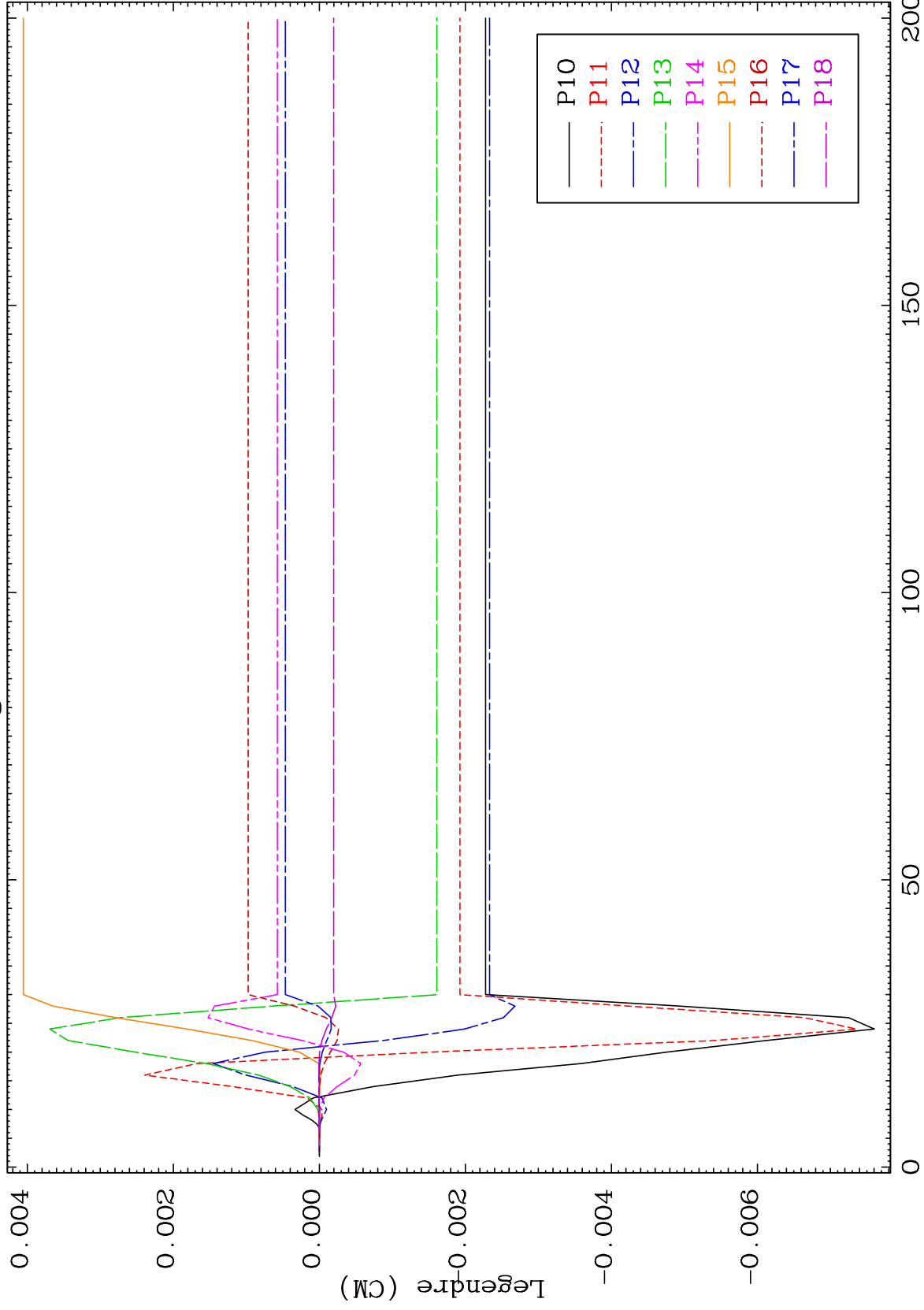
Incident Energy (MeV)

64

MAT 5604

564.3 keV (n,n') Level
Legendre Coefficients

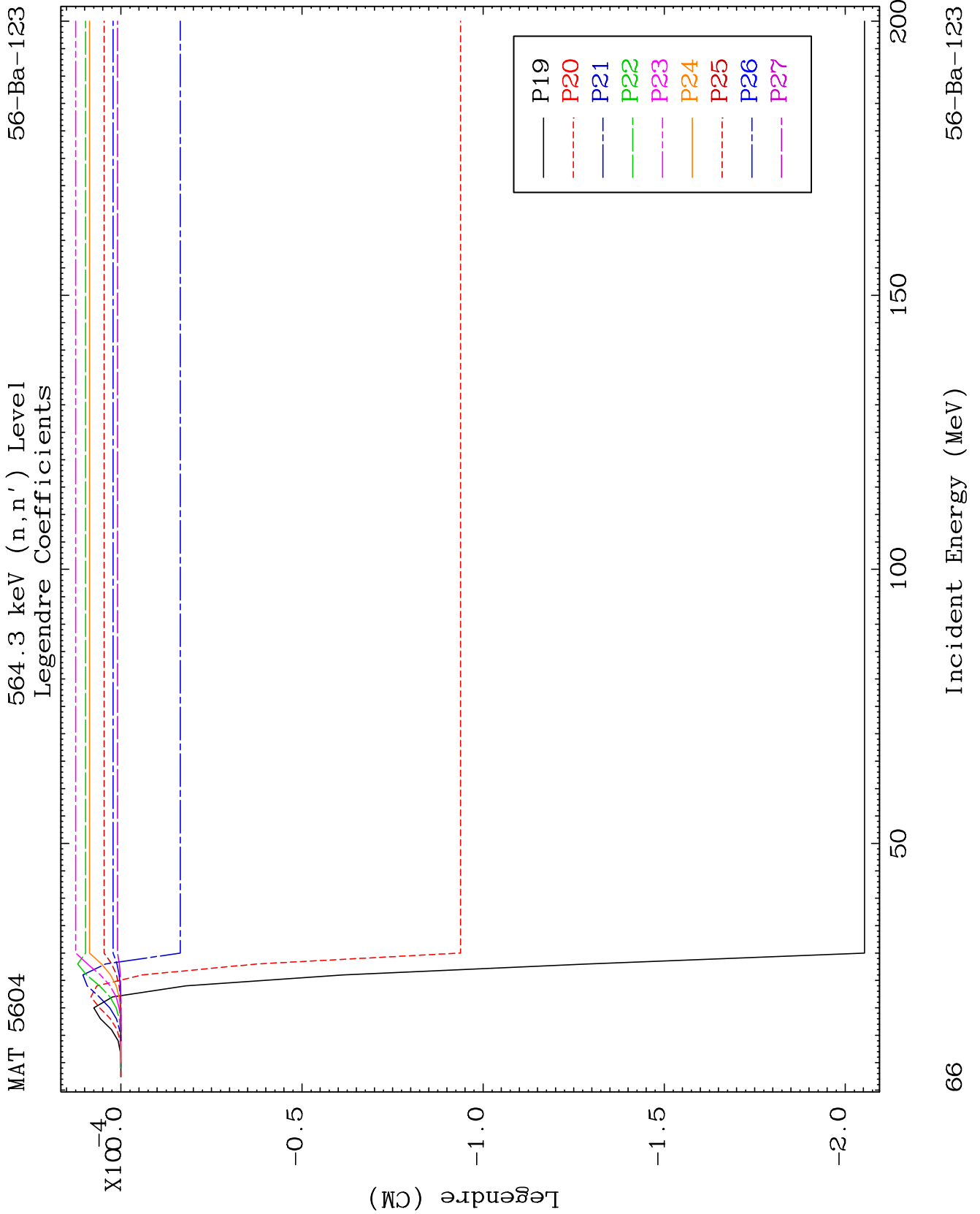
56-Ba-123



Incident Energy (MeV)

56-Ba-123

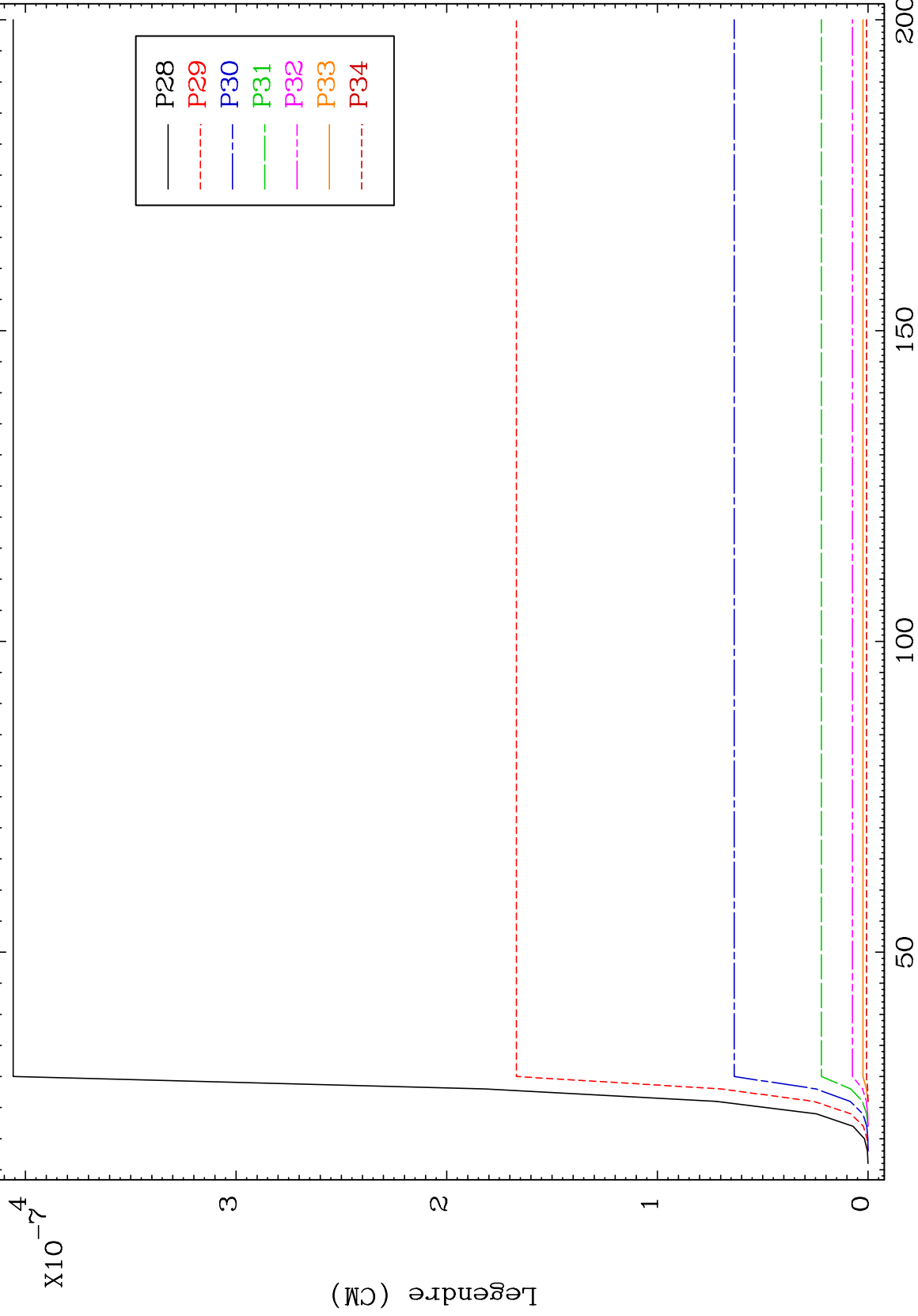
65



MAT 5604

564.3 keV (n,n') Level
Legendre Coefficients

56-Ba-123



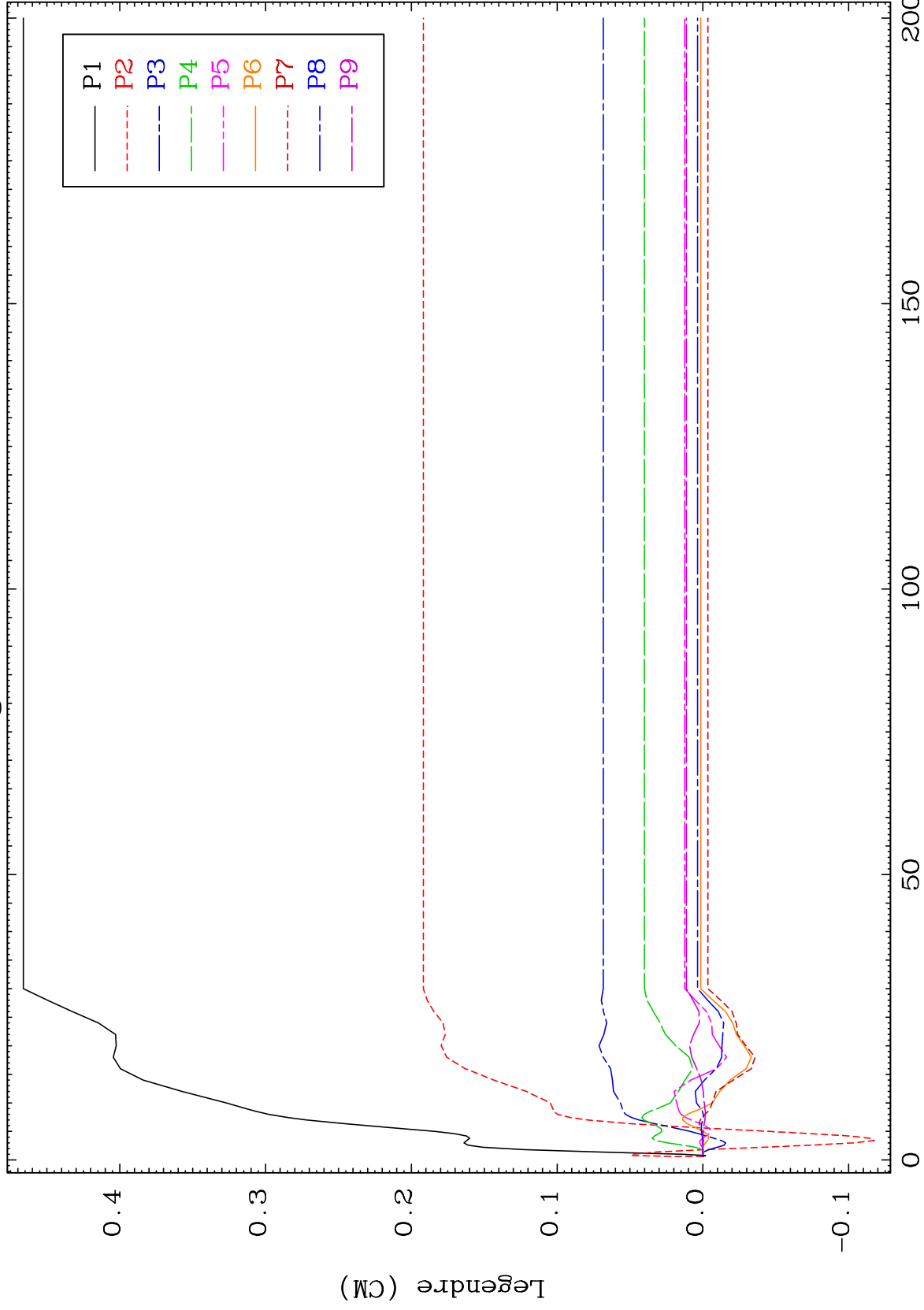
67

56-Ba-123

MAT 5604

582.3 keV (n,n') Level
Legendre Coefficients

56-Ba-123



68

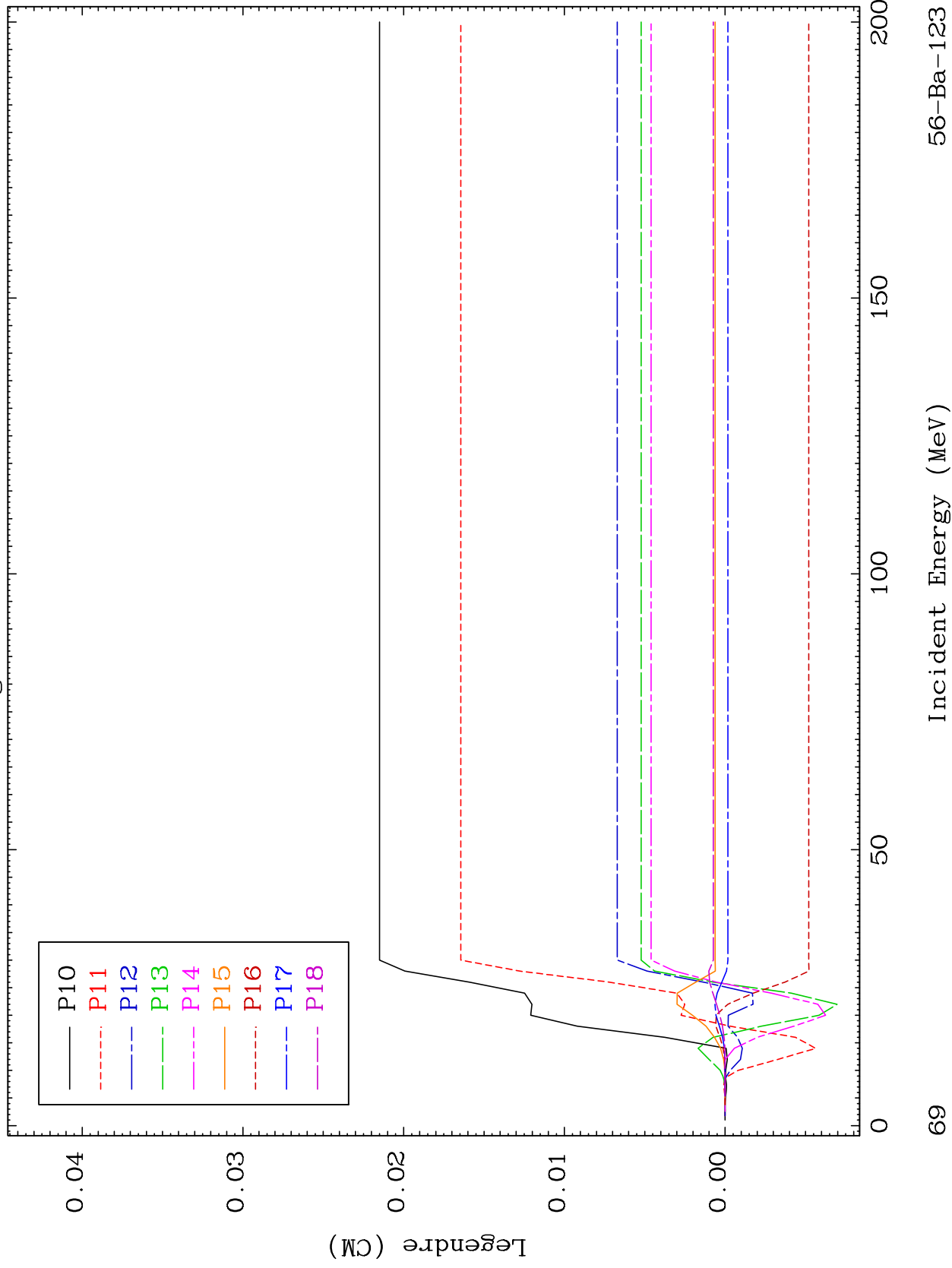
Incident Energy (MeV)

56-Ba-123

MAT 5604

582.3 keV (n,n') Level
Legendre Coefficients

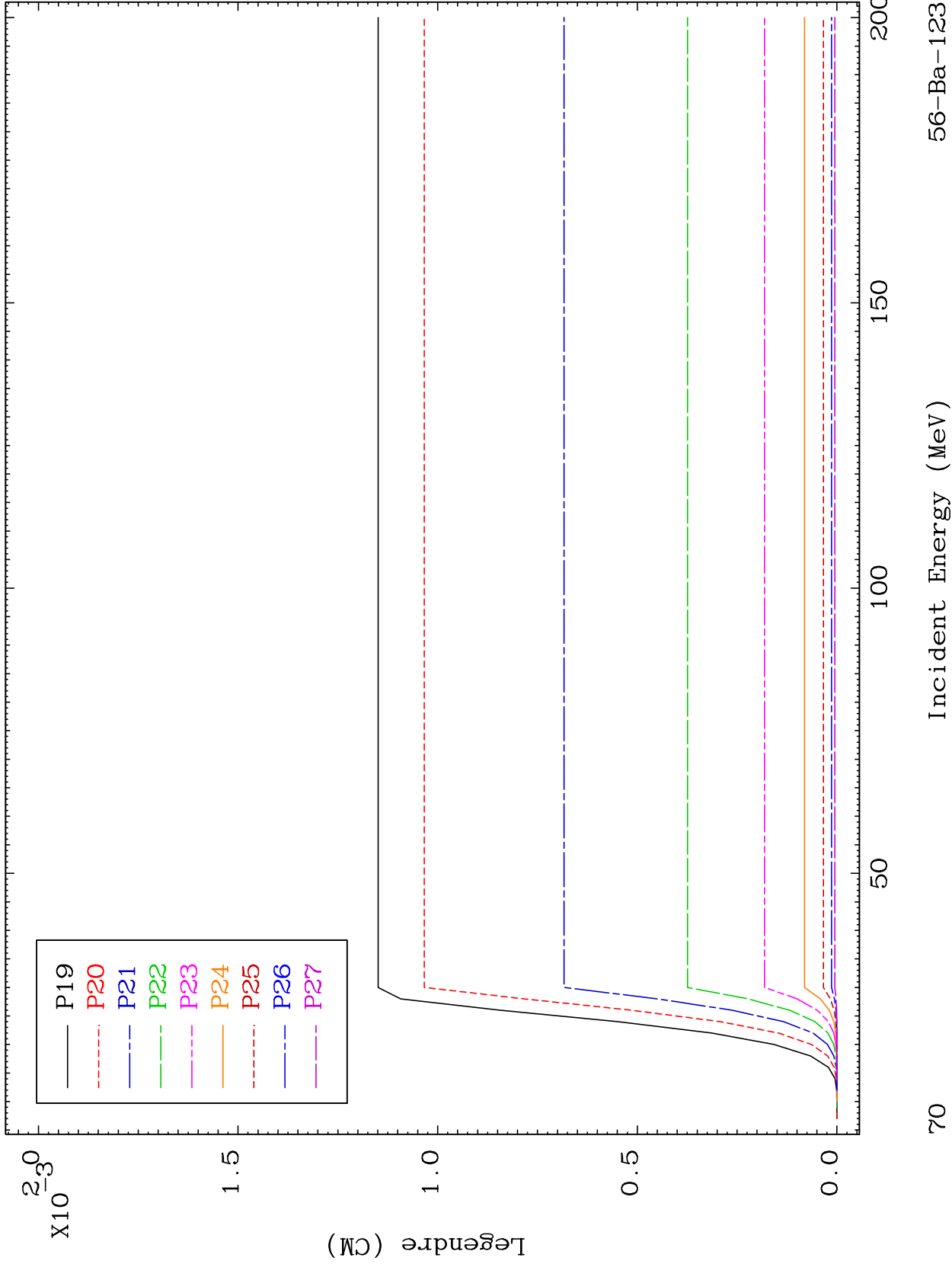
56-Ba-123



MAT 5604

582.3 keV (n,n') Level
Legendre Coefficients

56-Ba-123



70

Incident Energy (MeV)

56-Ba-123

200

150

100

50

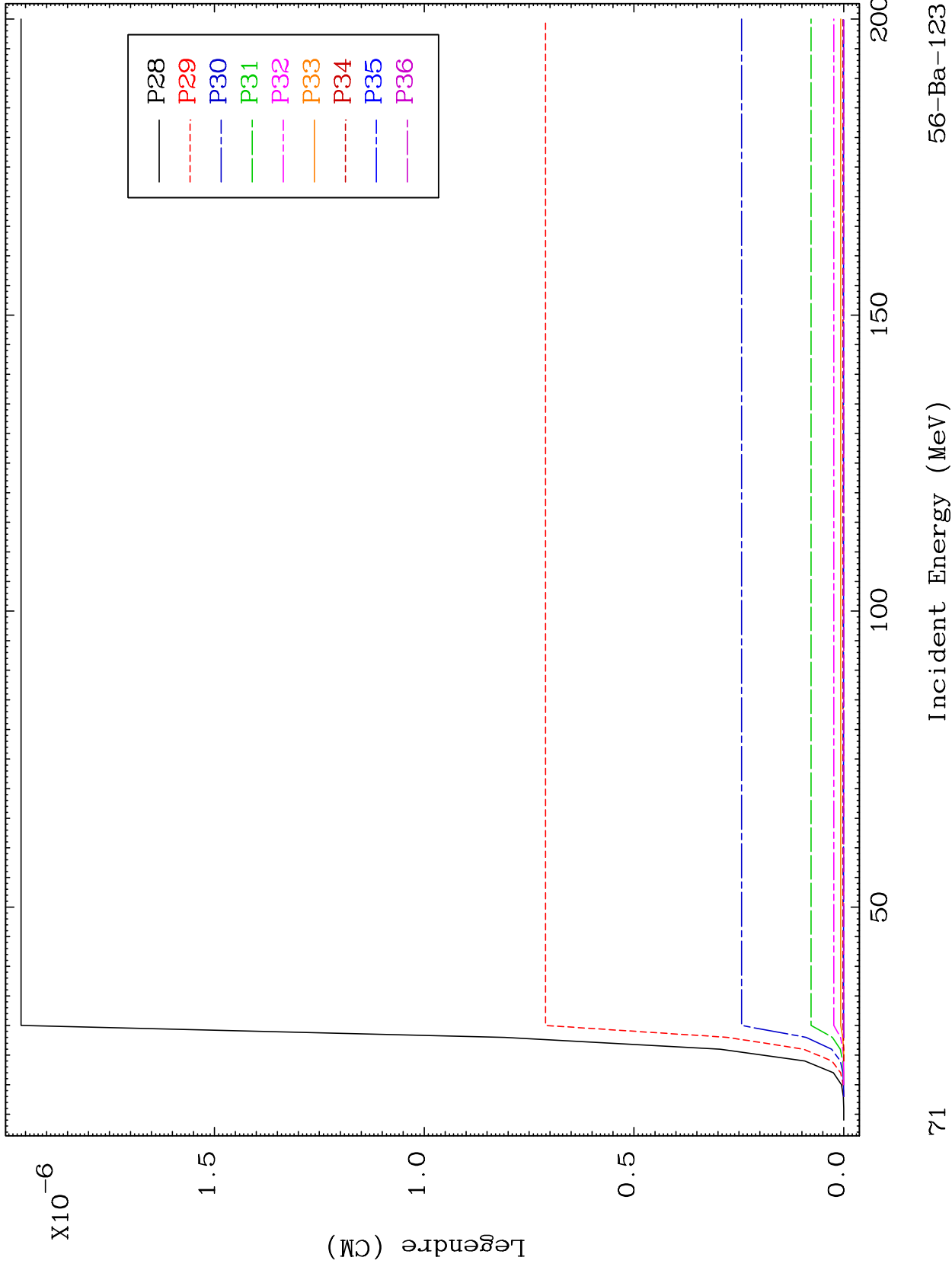
$\times 10^{-3}$

- P19
- P20
- P21
- P22
- P23
- P24
- P25
- P26
- P27

MAT 5604

582.3 keV (n,n') Level
Legendre Coefficients

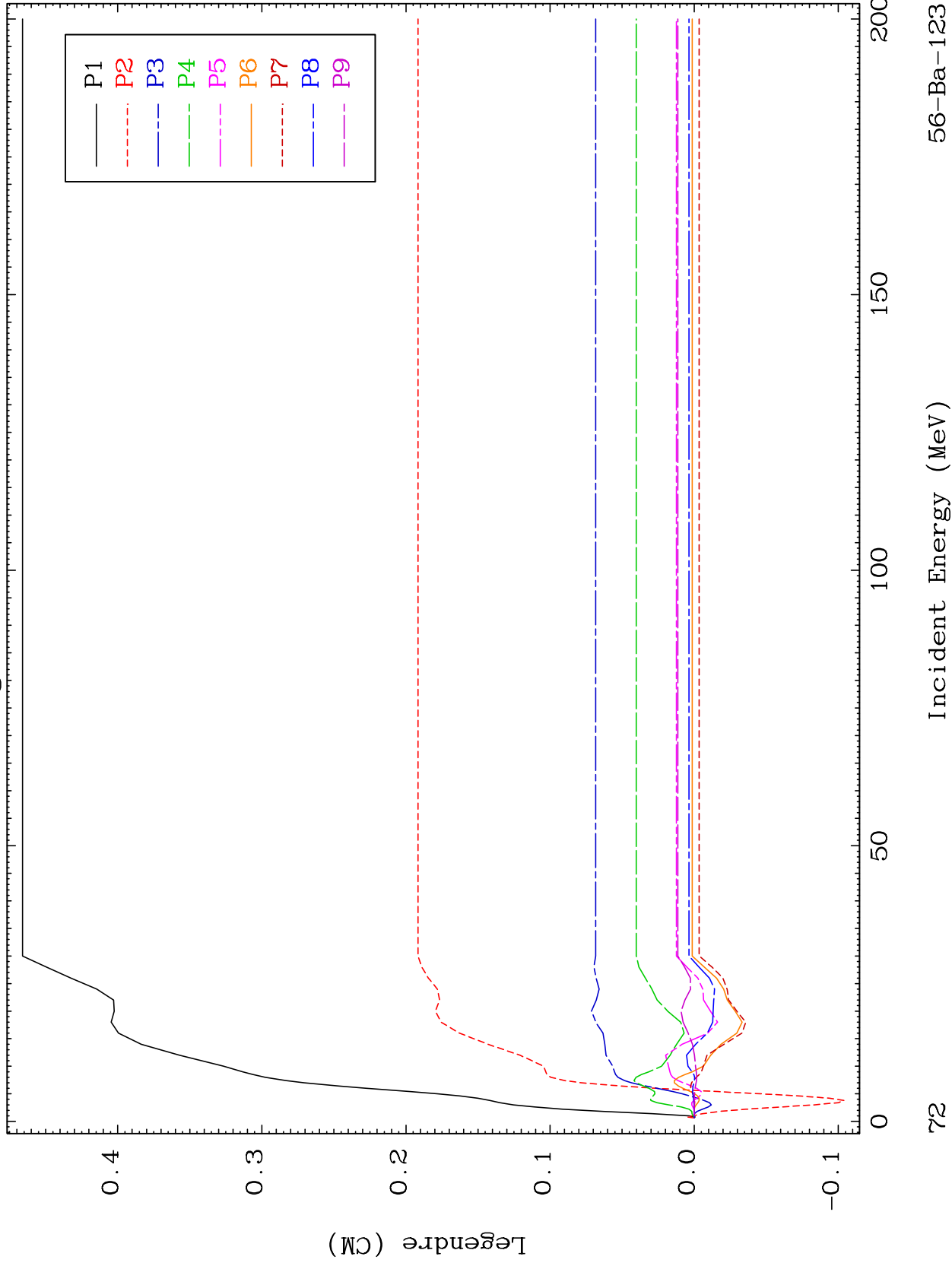
56-Ba-123



MAT 5604

612.6 keV (n,n') Level
Legendre Coefficients

56-Ba-123



56-Ba-123

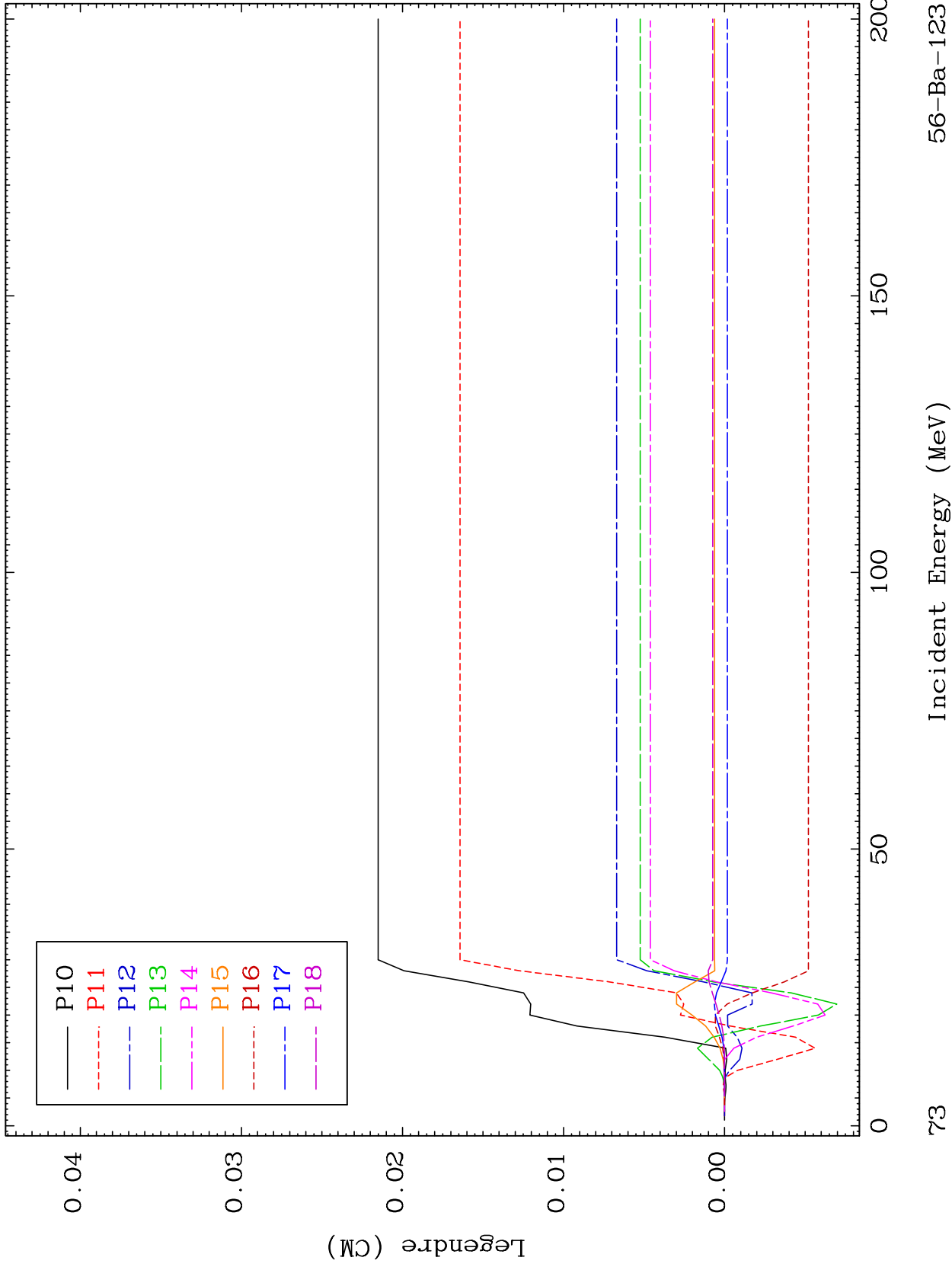
Incident Energy (MeV)

72

MAT 5604

612.6 keV (n,n') Level
Legendre Coefficients

56-Ba-123



56-Ba-123

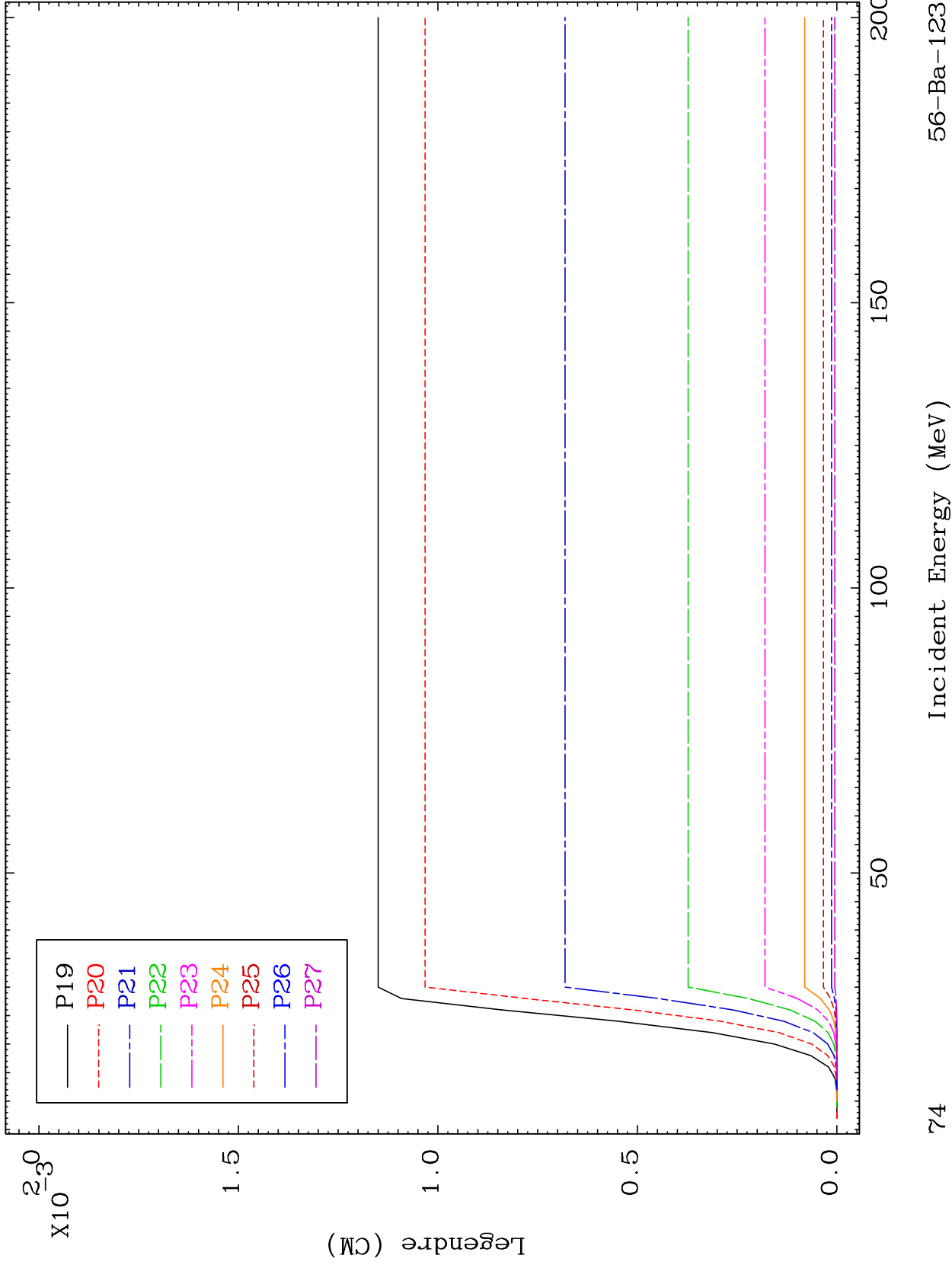
Incident Energy (MeV)

73

MAT 5604

612.6 keV (n,n') Level
Legendre Coefficients

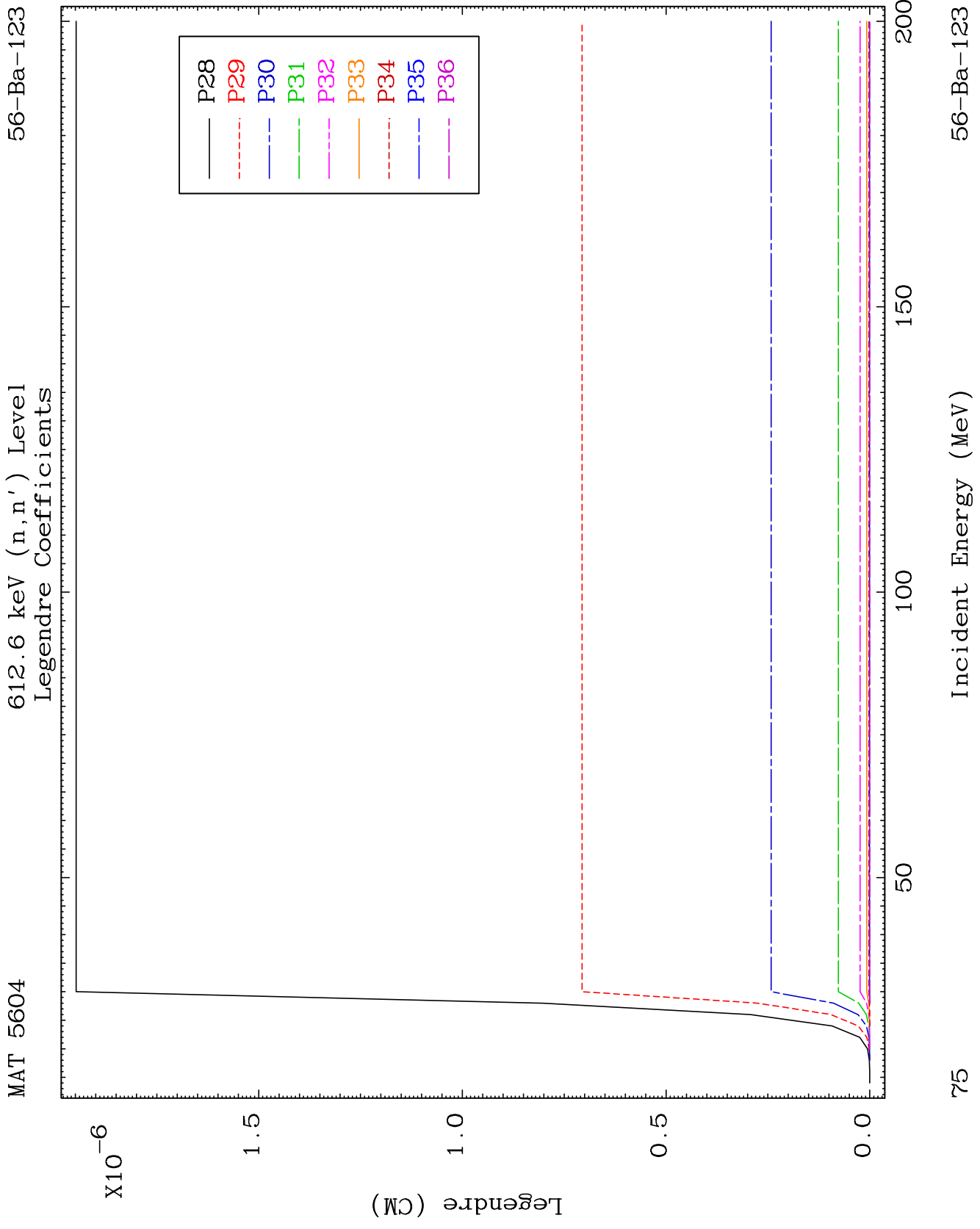
56-Ba-123



74

Incident Energy (MeV)

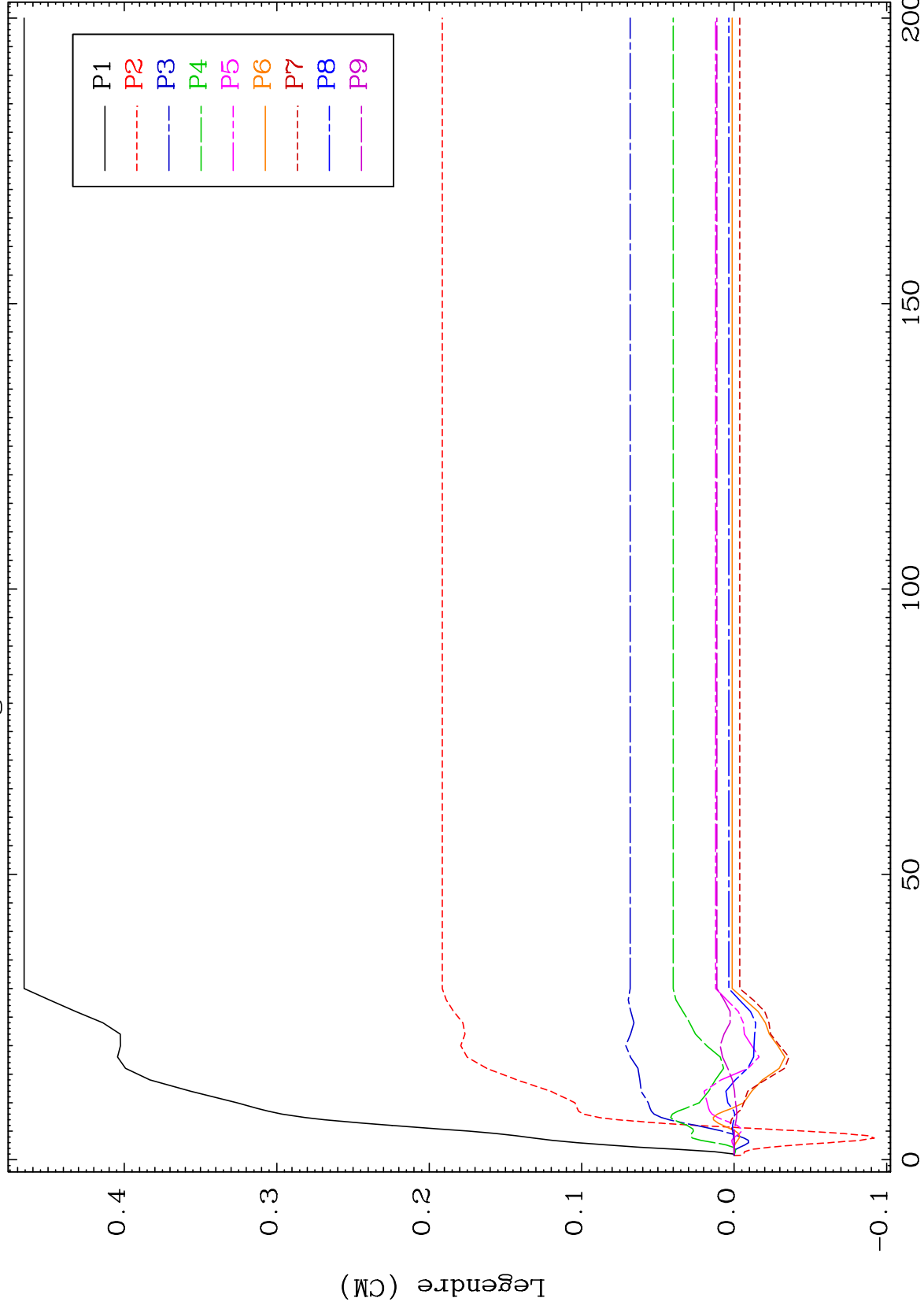
56-Ba-123



MAT 5604

695.3 keV (n,n') Level
Legendre Coefficients

56-Ba-123



76

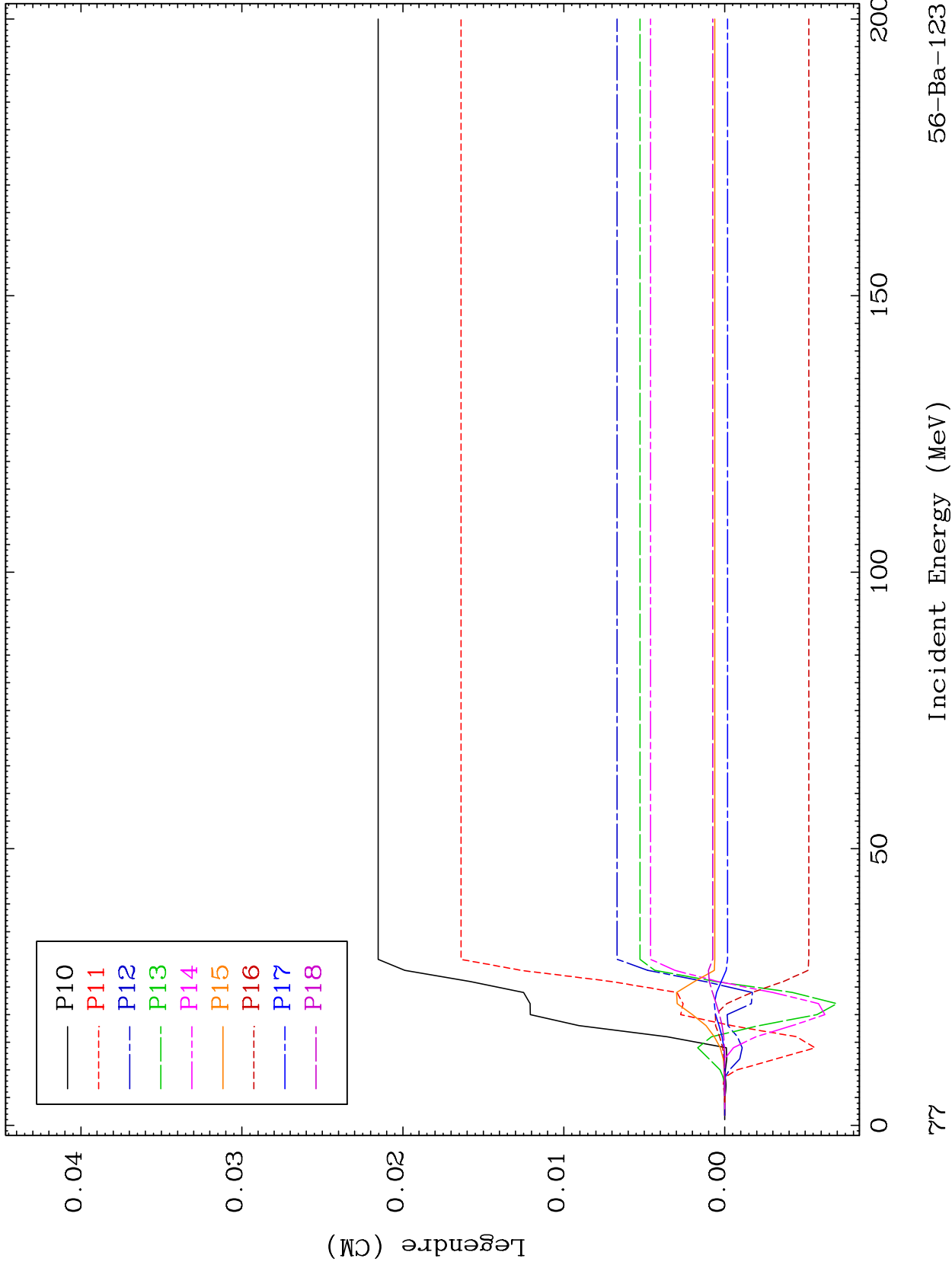
Incident Energy (MeV)

56-Ba-123

MAT 5604

695.3 keV (n,n') Level
Legendre Coefficients

56-Ba-123



77

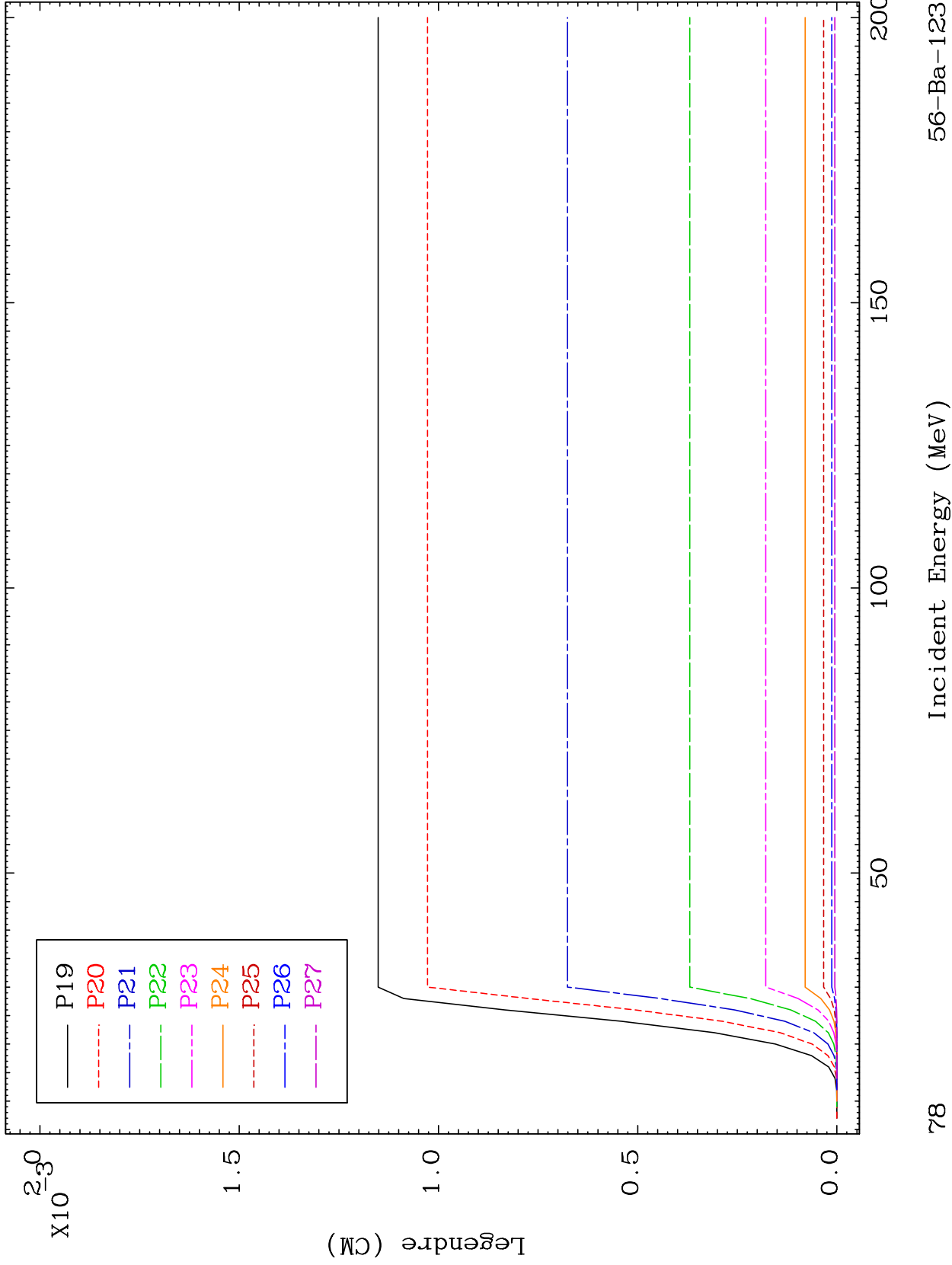
Incident Energy (MeV)

56-Ba-123

MAT 5604

695.3 keV (n,n') Level
Legendre Coefficients

56-Ba-123



78

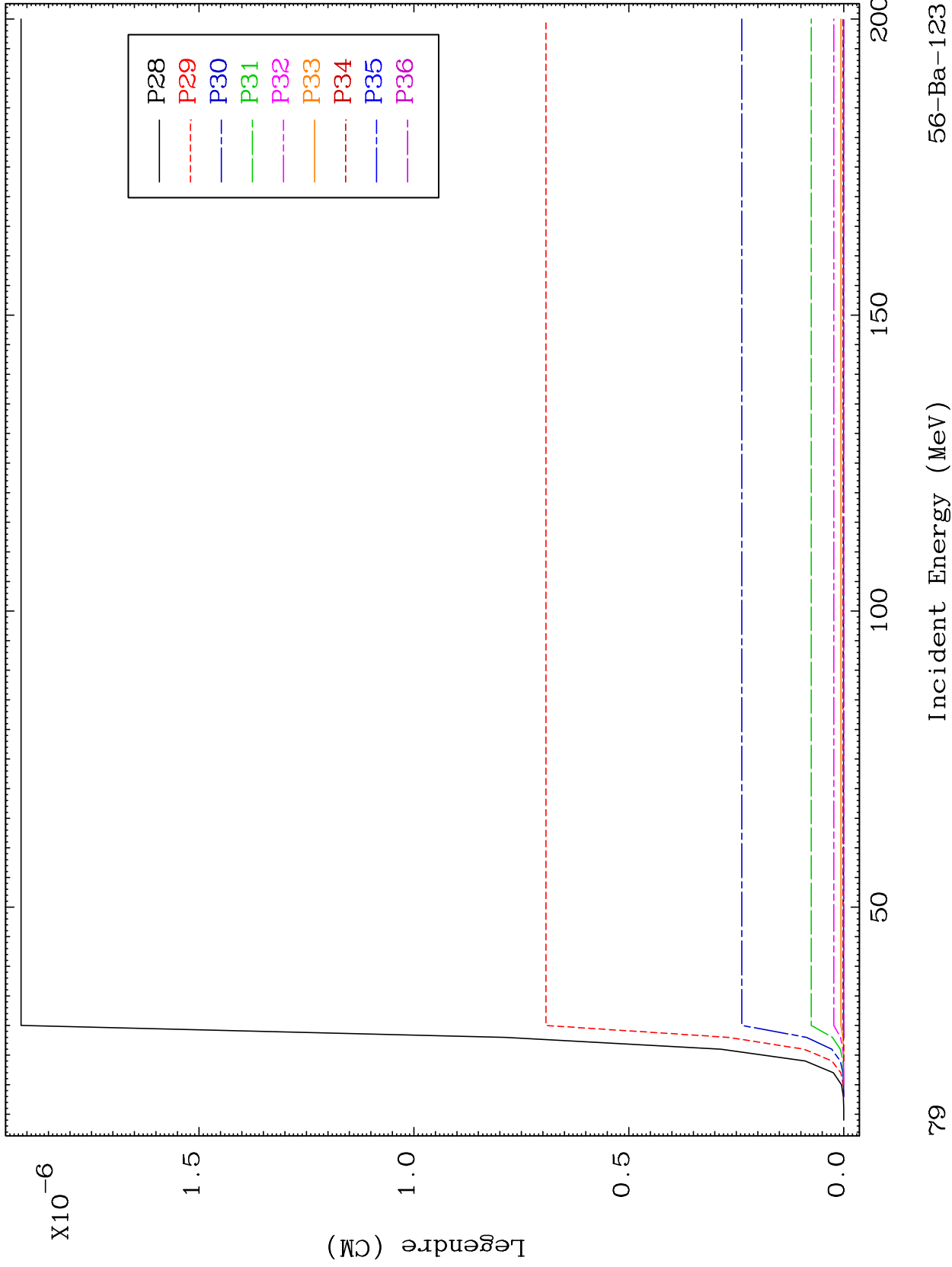
Incident Energy (MeV)

56-Ba-123

MAT 5604

695.3 keV (n,n') Level
Legendre Coefficients

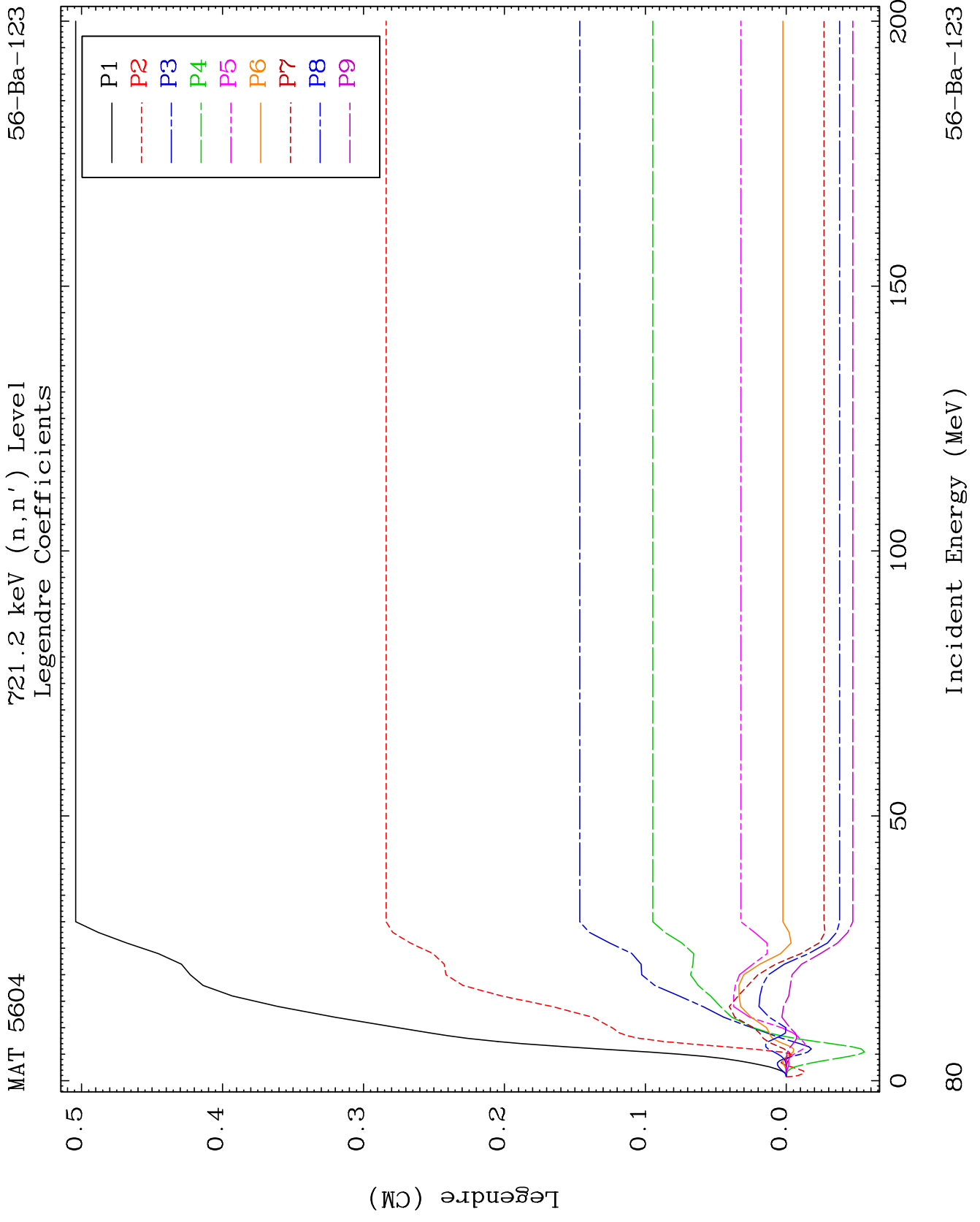
56-Ba-123

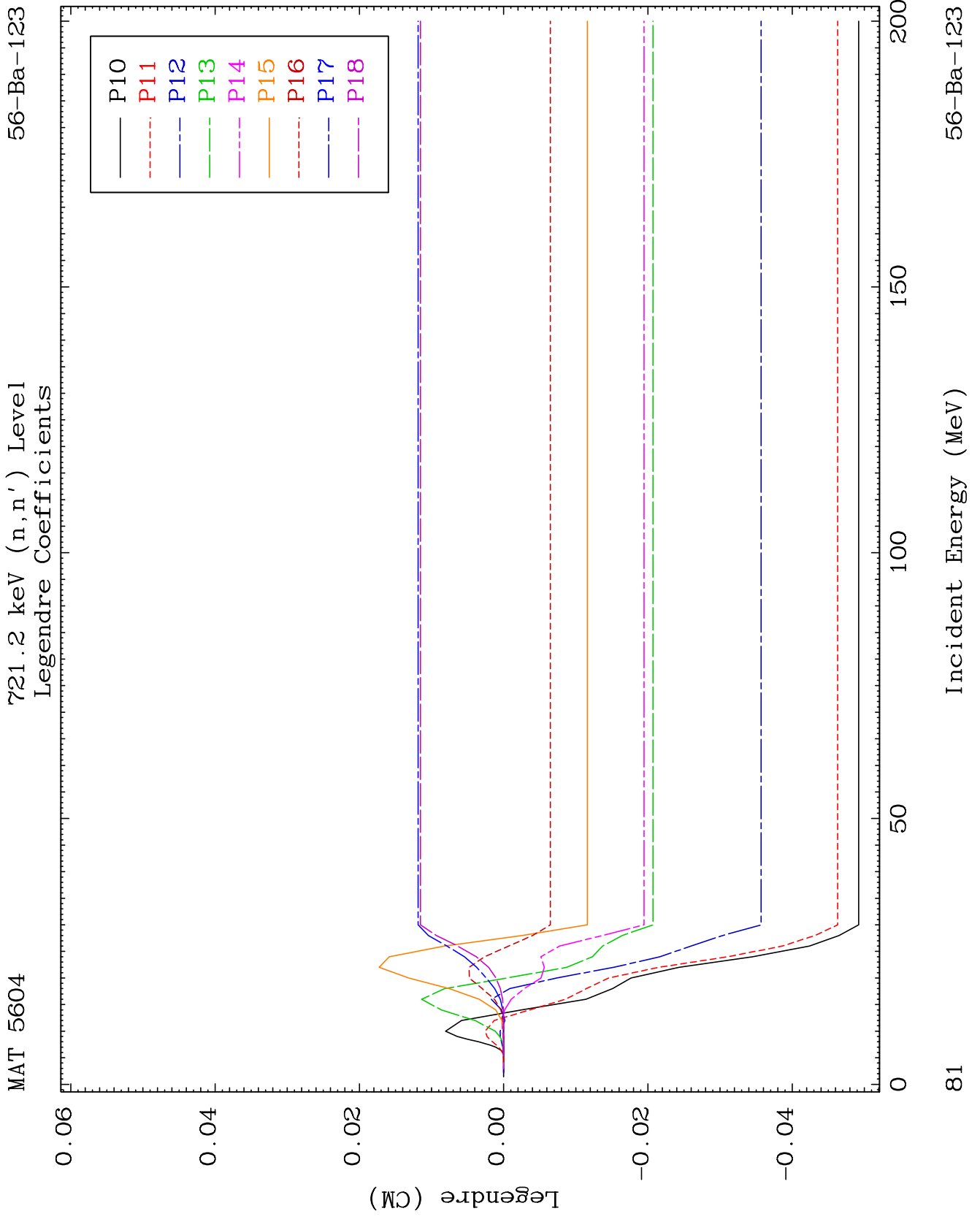


79

Incident Energy (MeV)

56-Ba-123

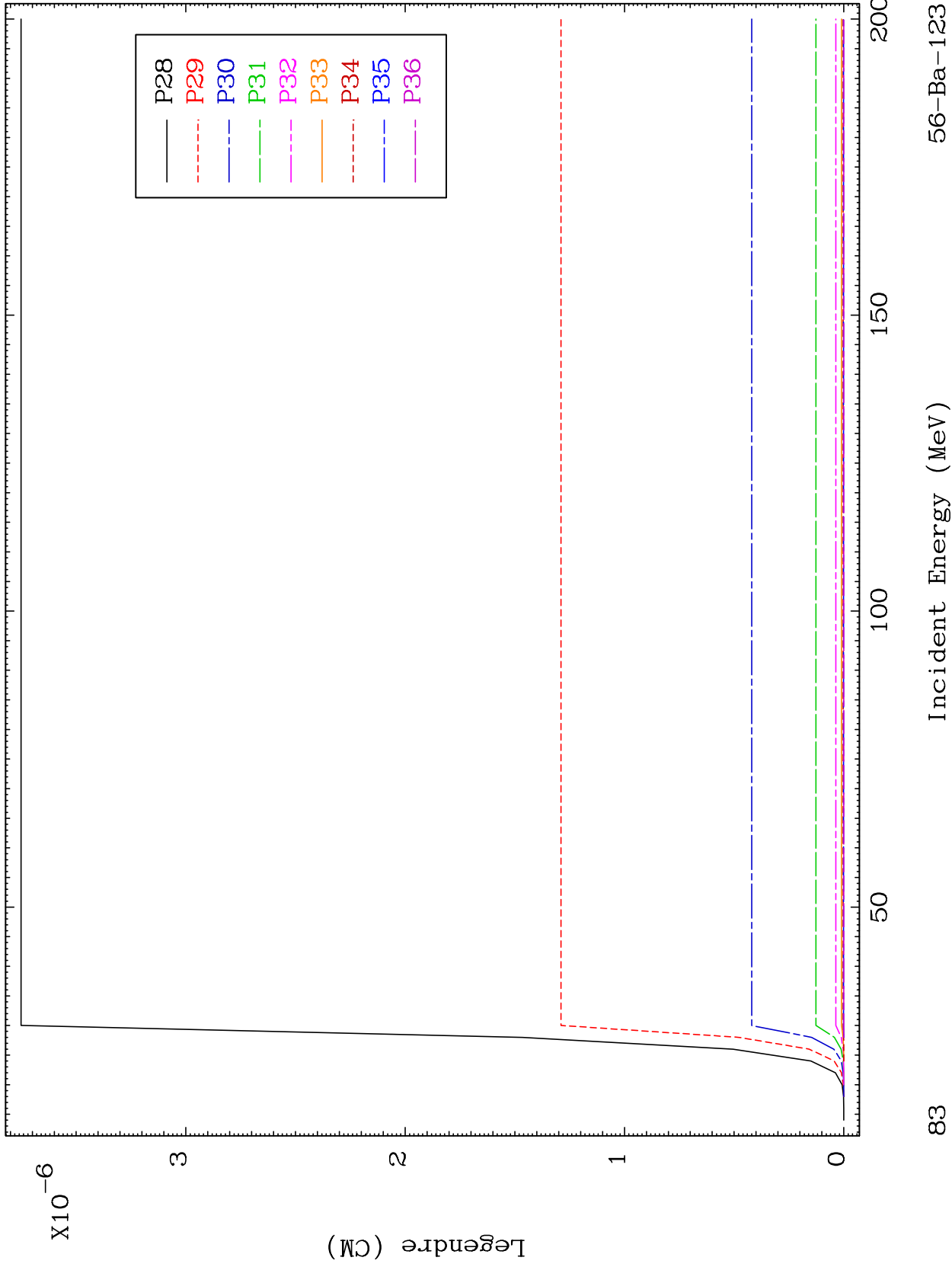


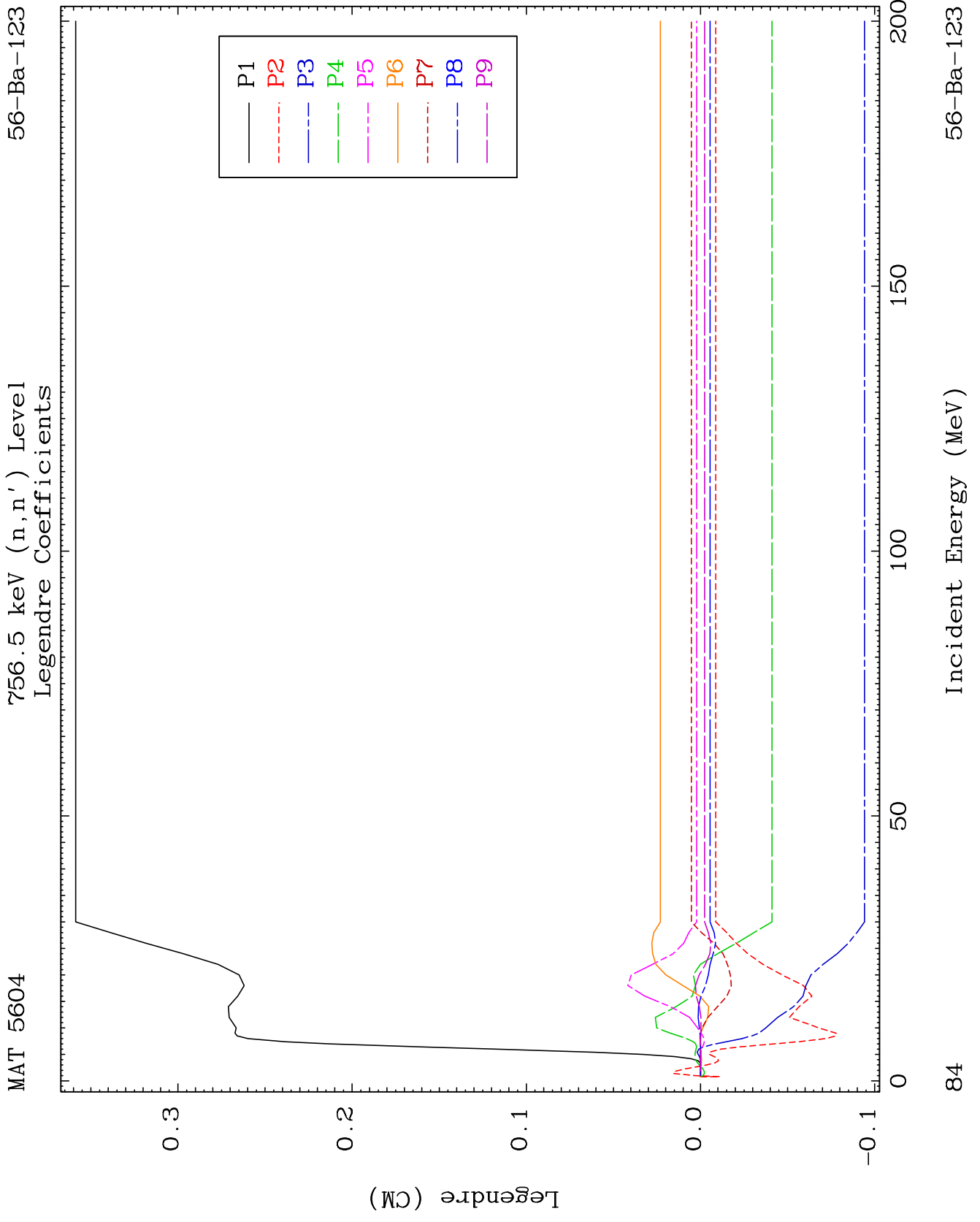


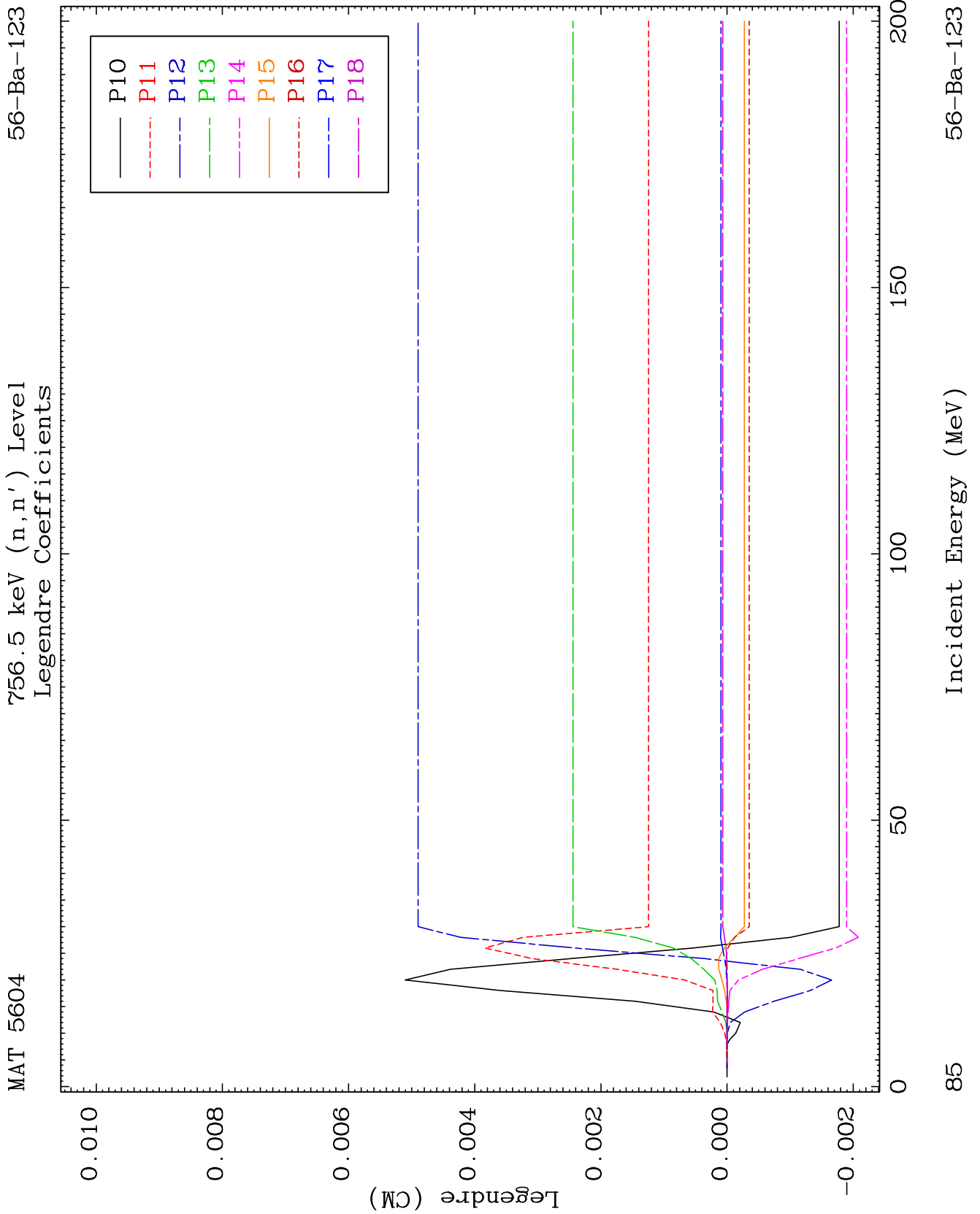
MAT 5604

721.2 keV (n, n') Level
Legendre Coefficients

56-Ba-123



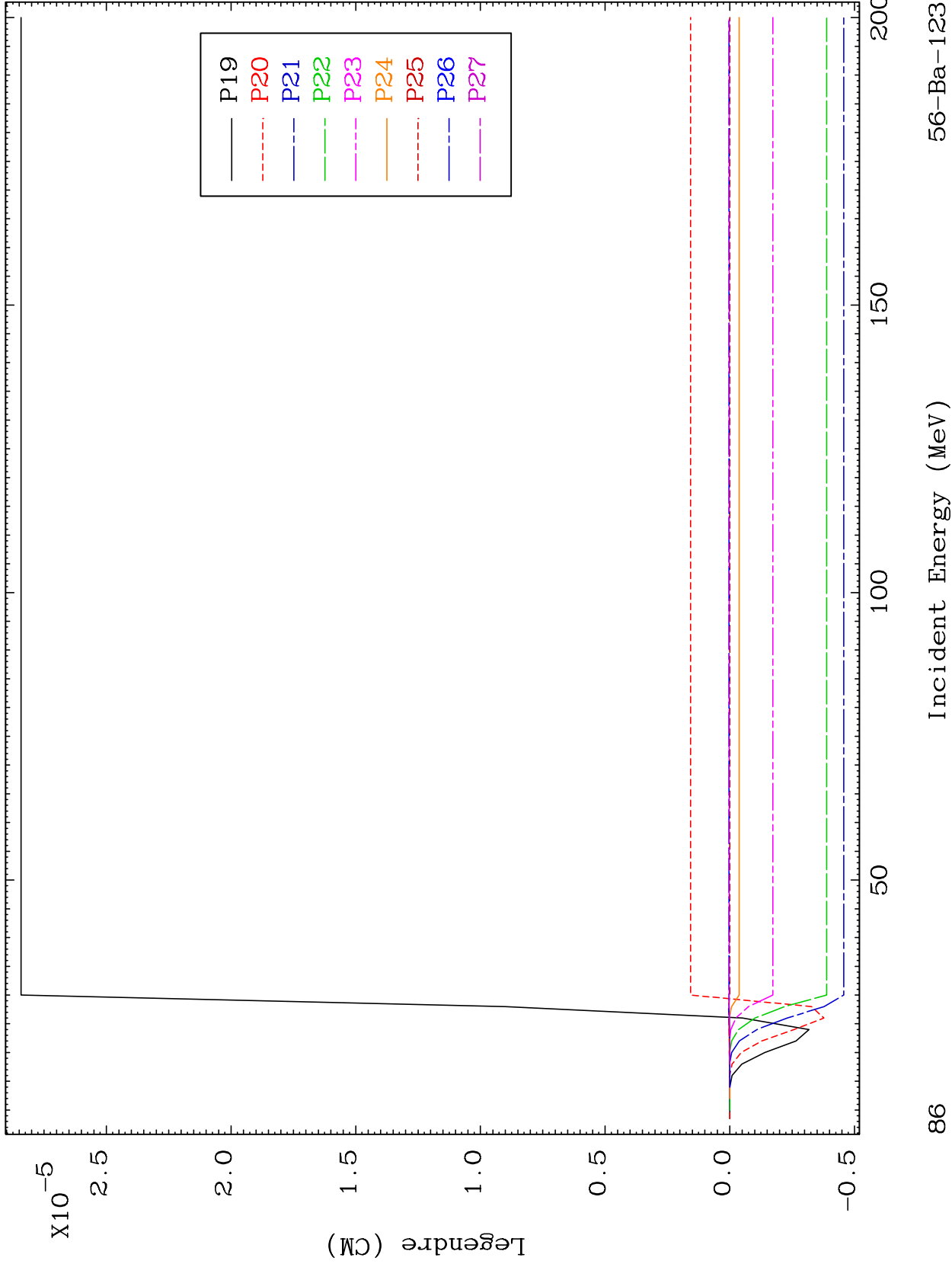




MAT 5604

756.5 keV (n,n') Level
Legendre Coefficients

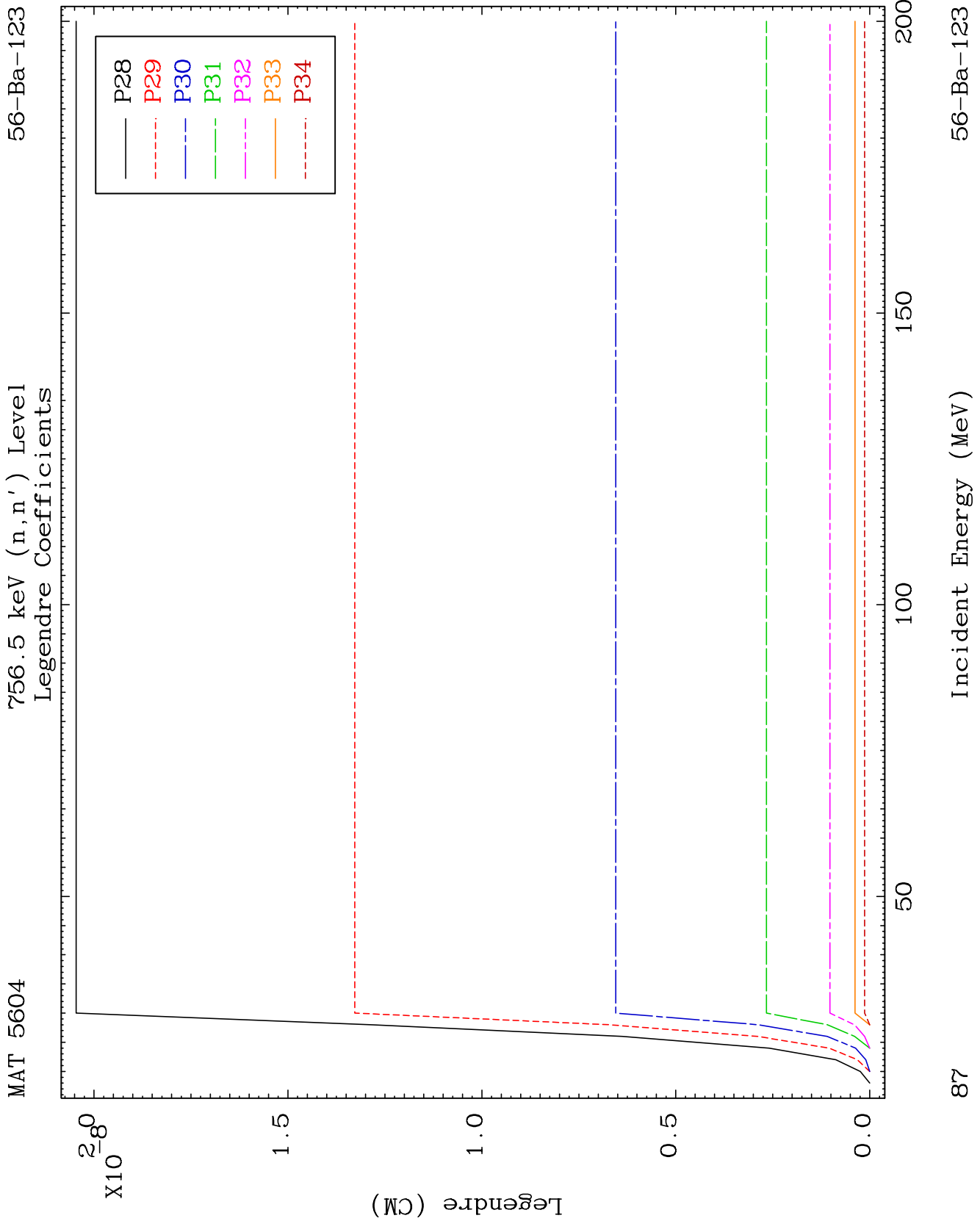
56-Ba-123



86

Incident Energy (MeV)

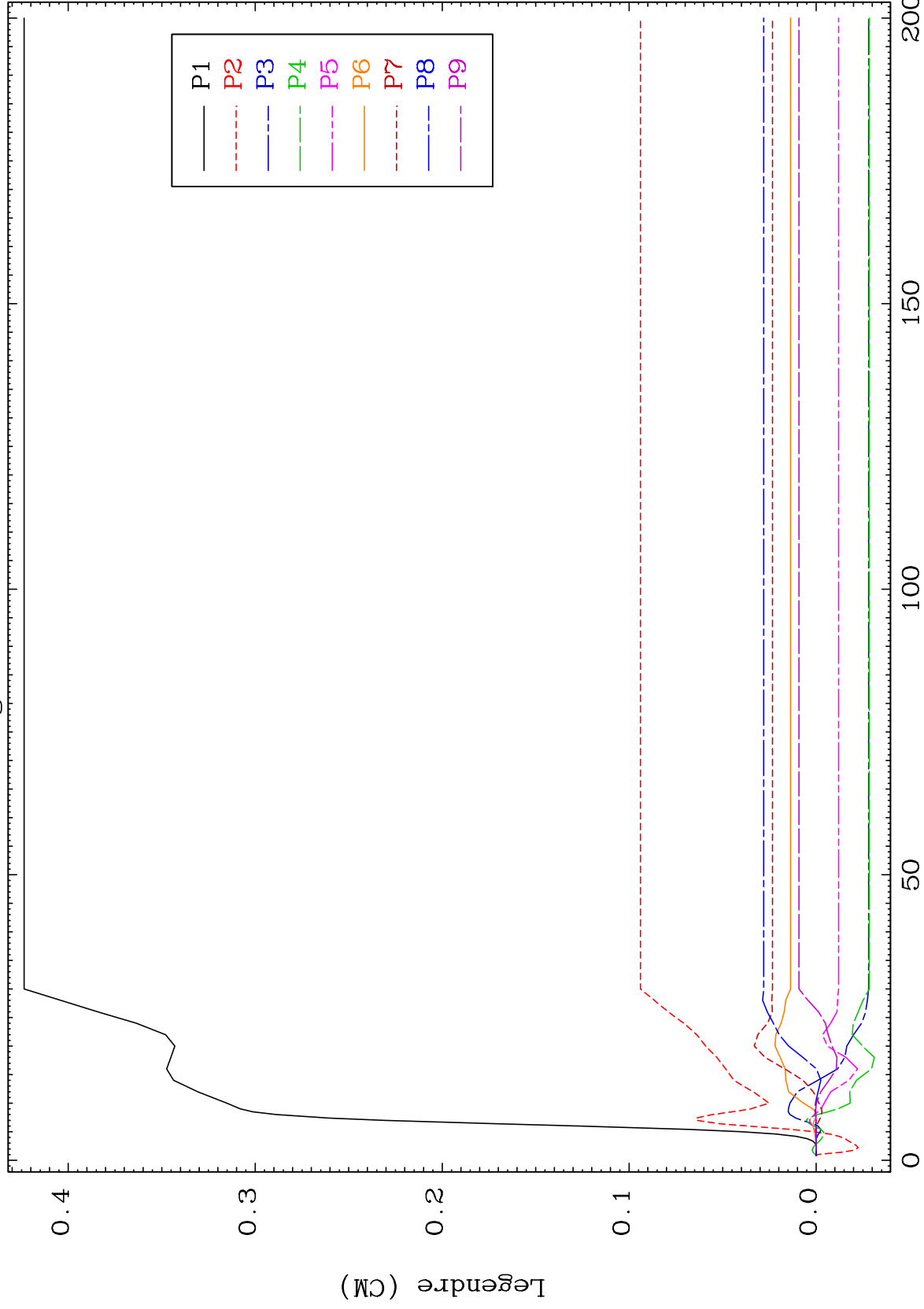
56-Ba-123



MAT 5604

790.9 keV (n, n') Level
Legendre Coefficients

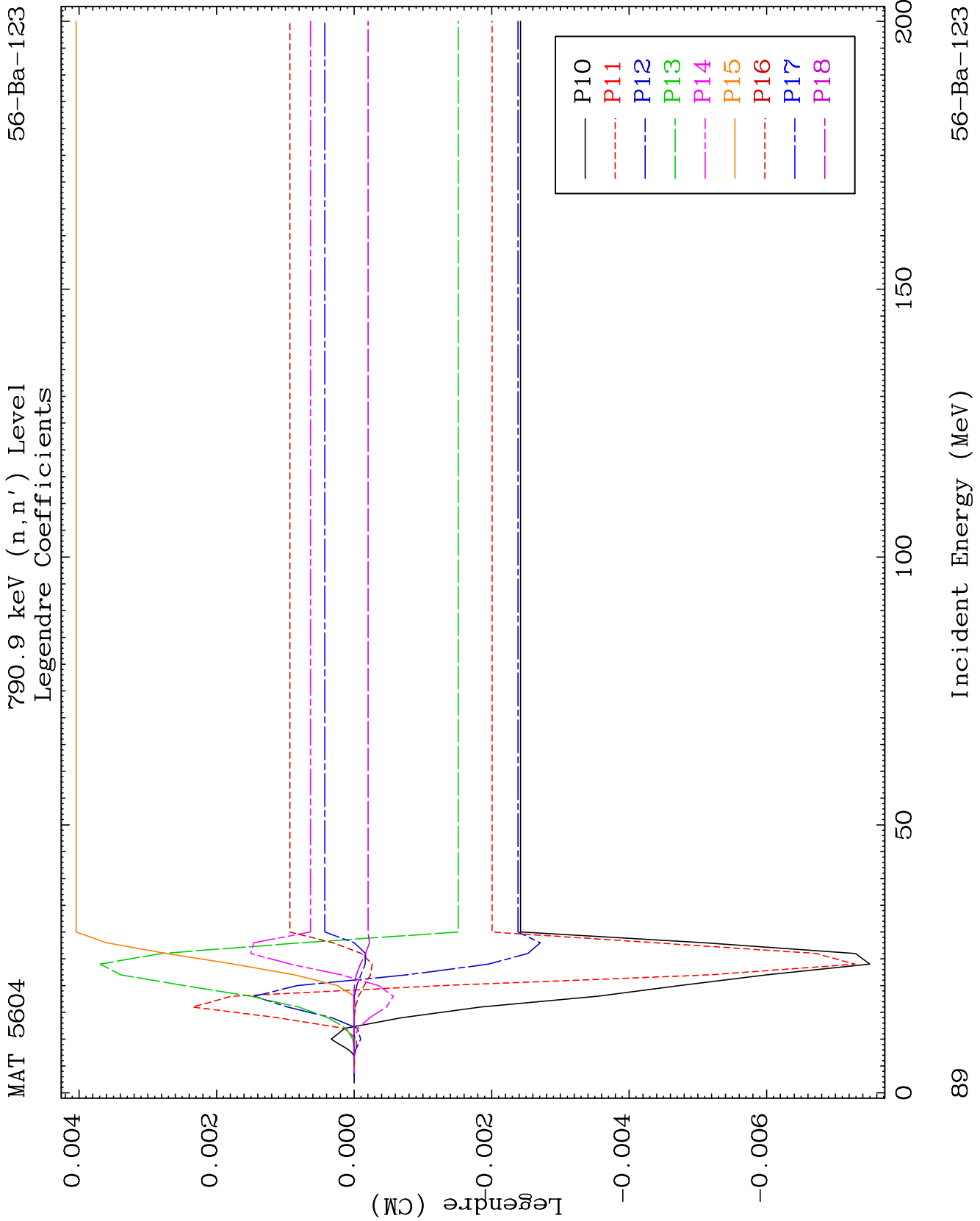
56-Ba-123

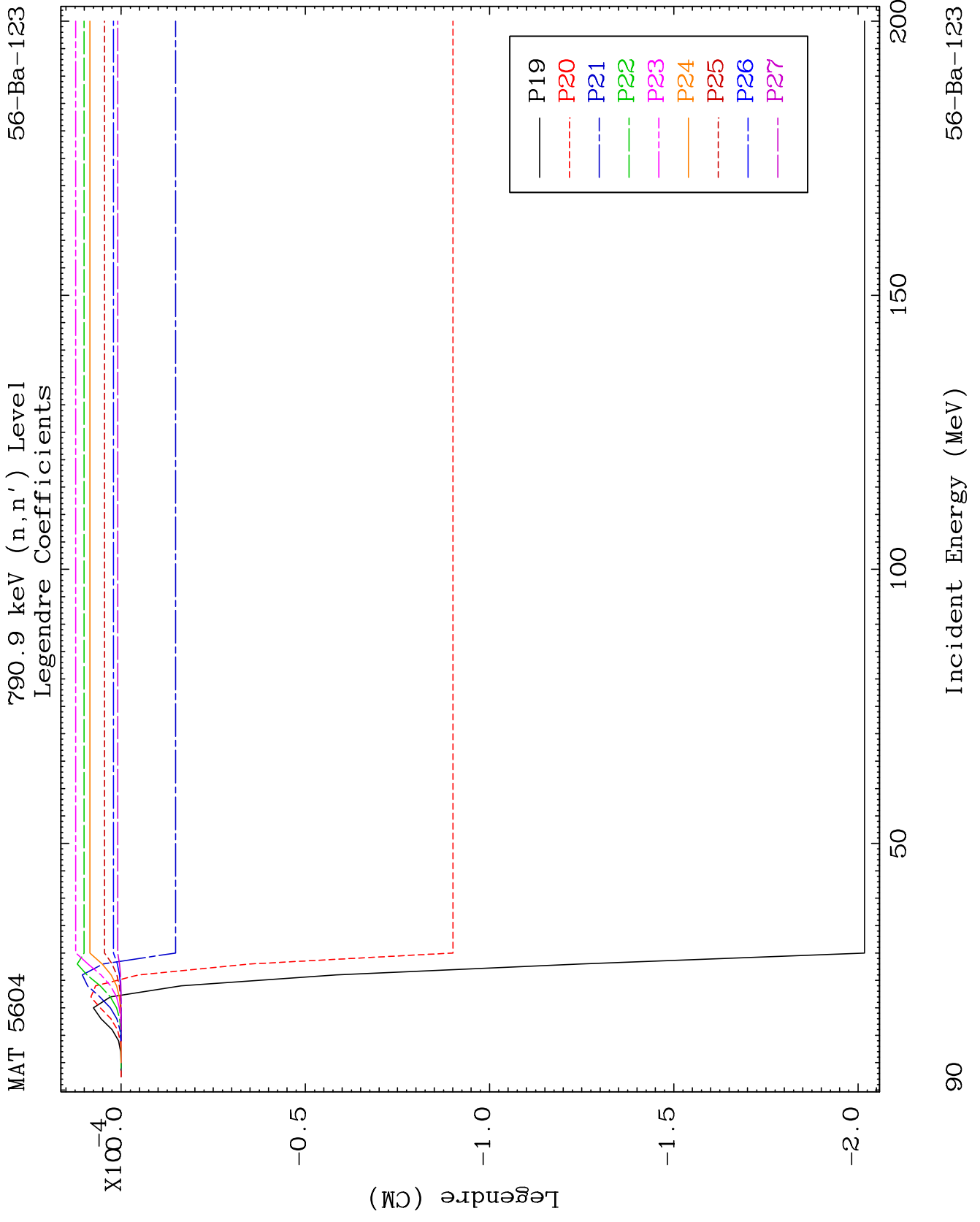


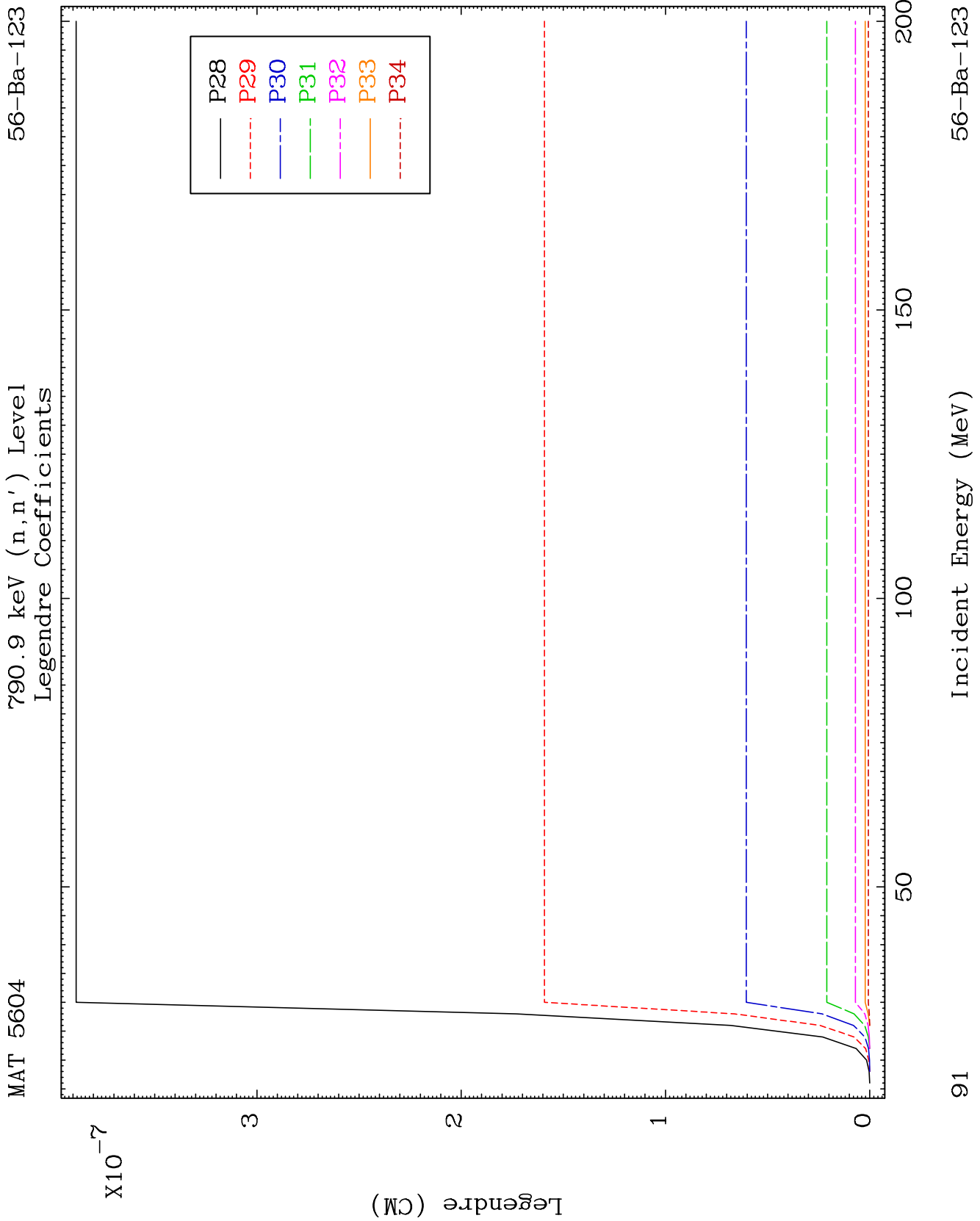
56-Ba-123

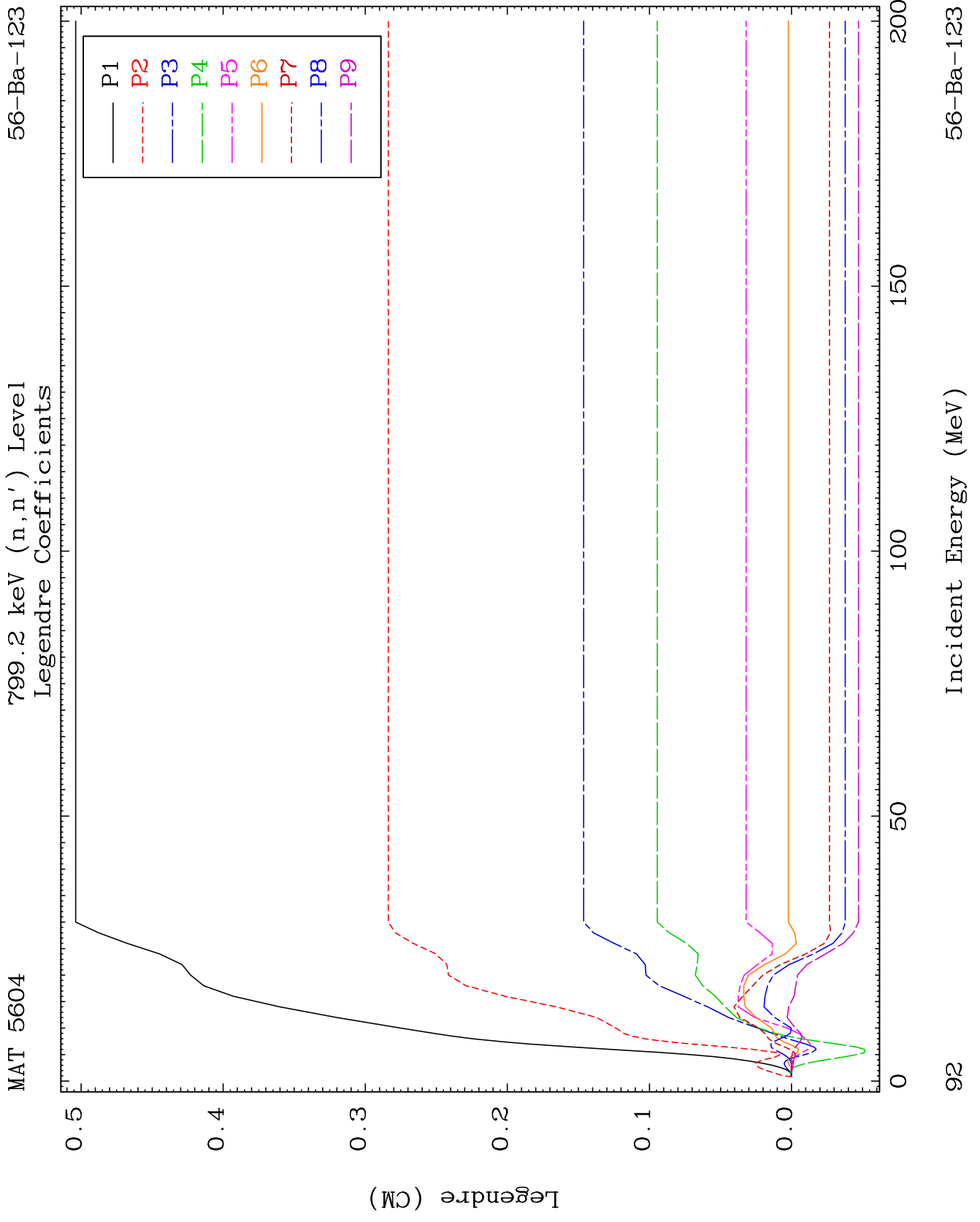
Incident Energy (MeV)

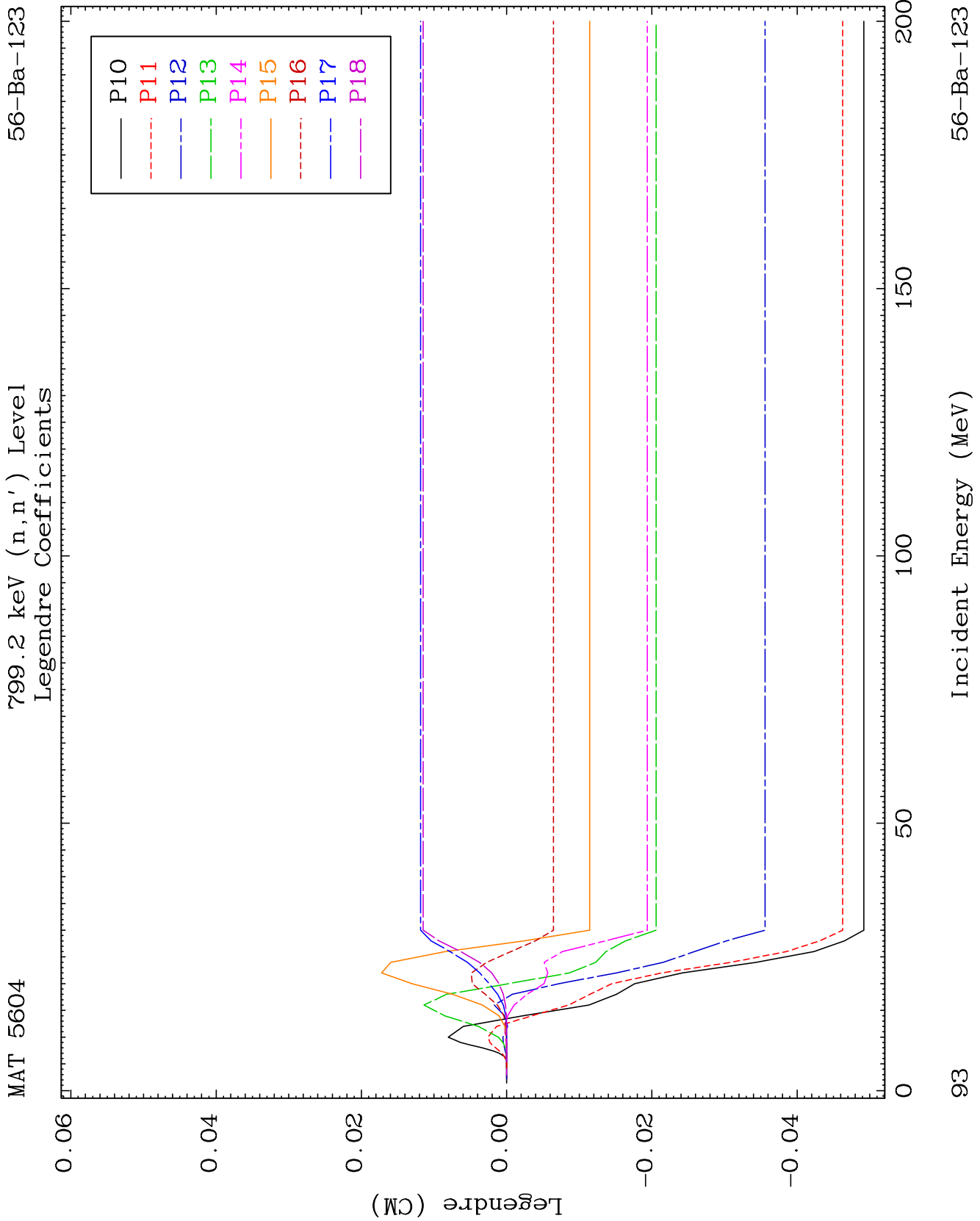
88

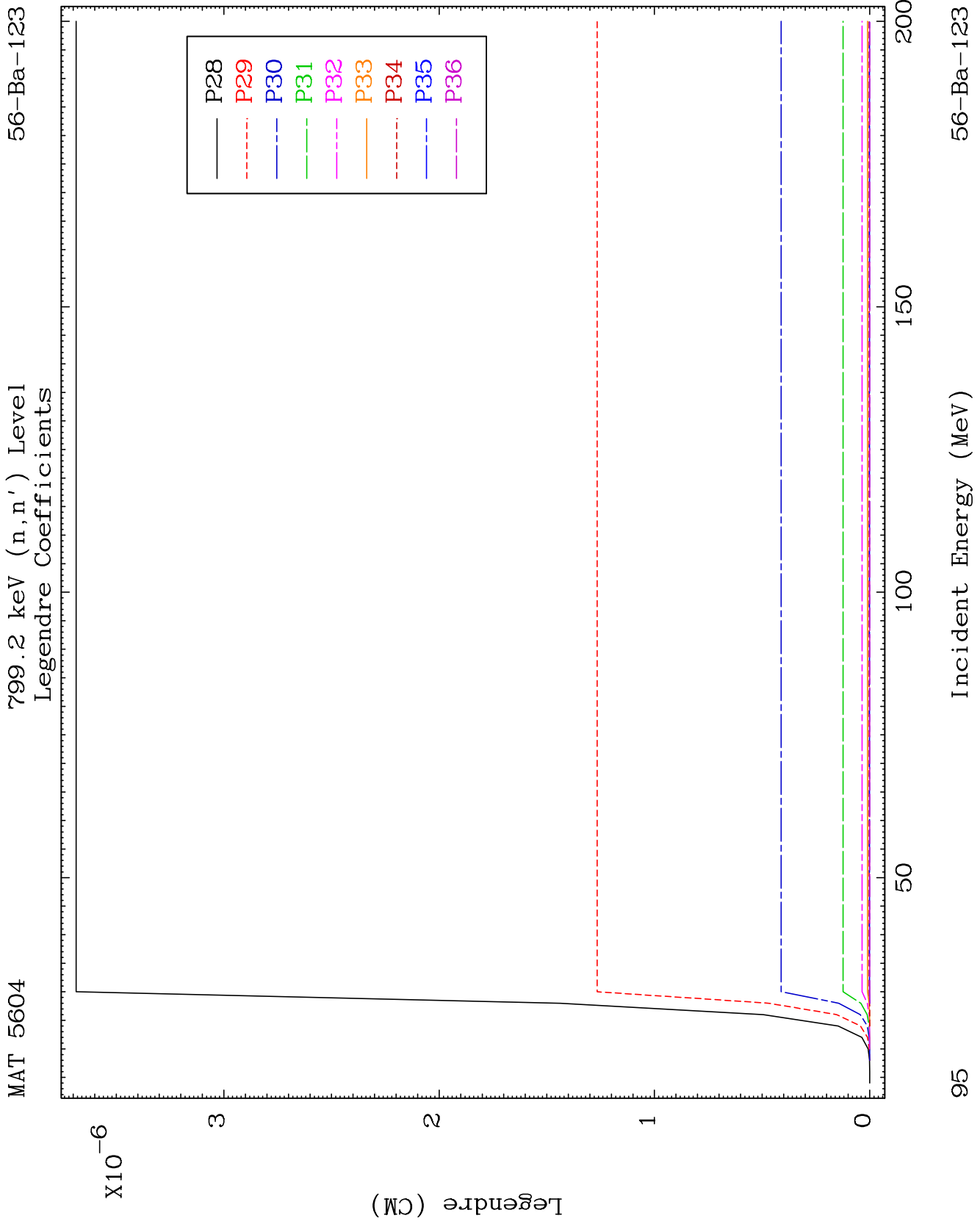










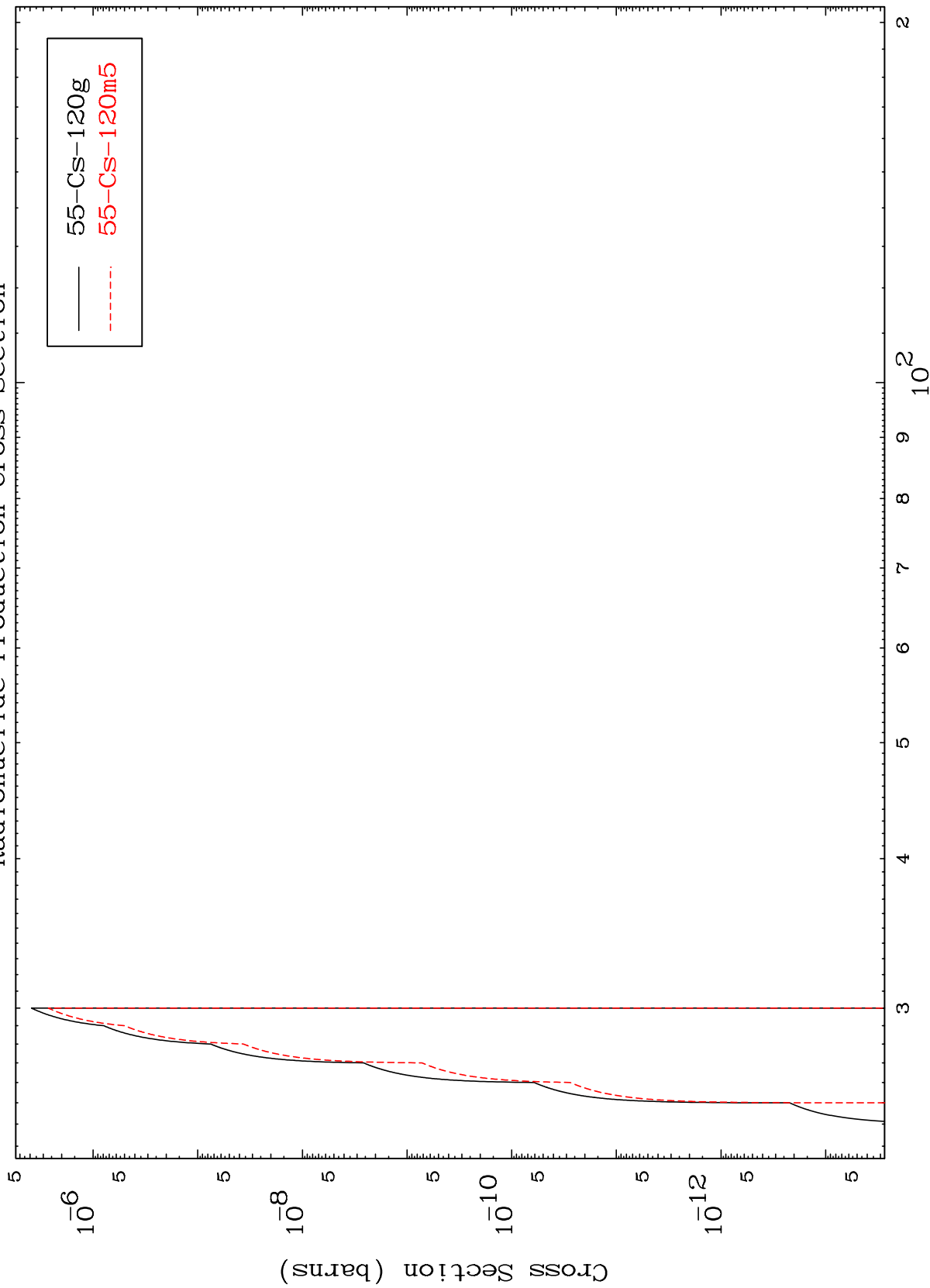


MAT 5604

(n,2n) d

56-Ba-123

Radionuclide Production Cross Section



55-Cs-120g
55-Cs-120m5

96

Incident Energy (MeV)

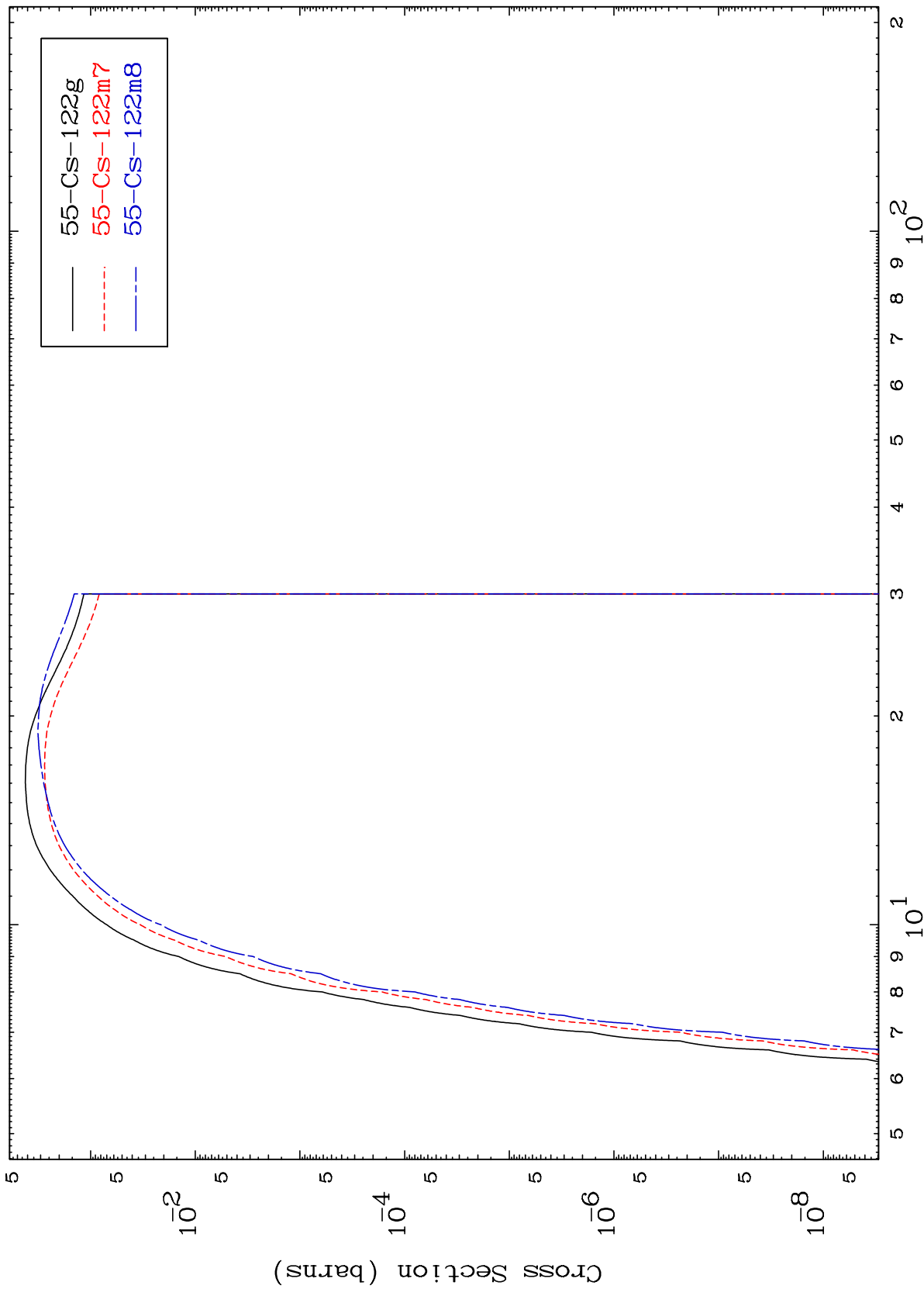
56-Ba-123

MAT 5604

(n, n') p

56-Ba-123

Radionuclide Production Cross Section



97

Incident Energy (MeV)

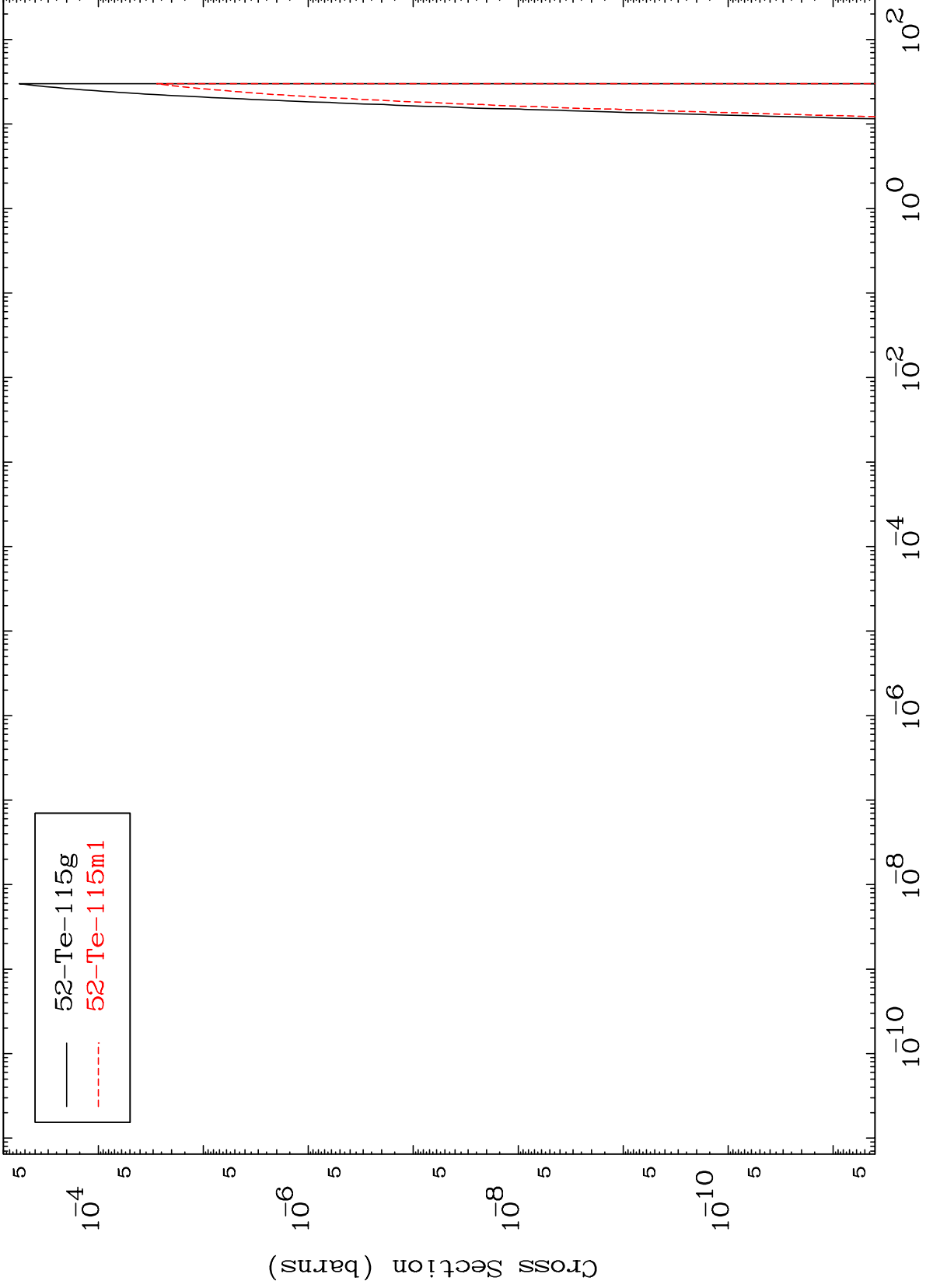
56-Ba-123

MAT 5604

(n,n') 2α

56-Ba-123

Radionuclide Production Cross Section



98

Incident Energy (MeV)

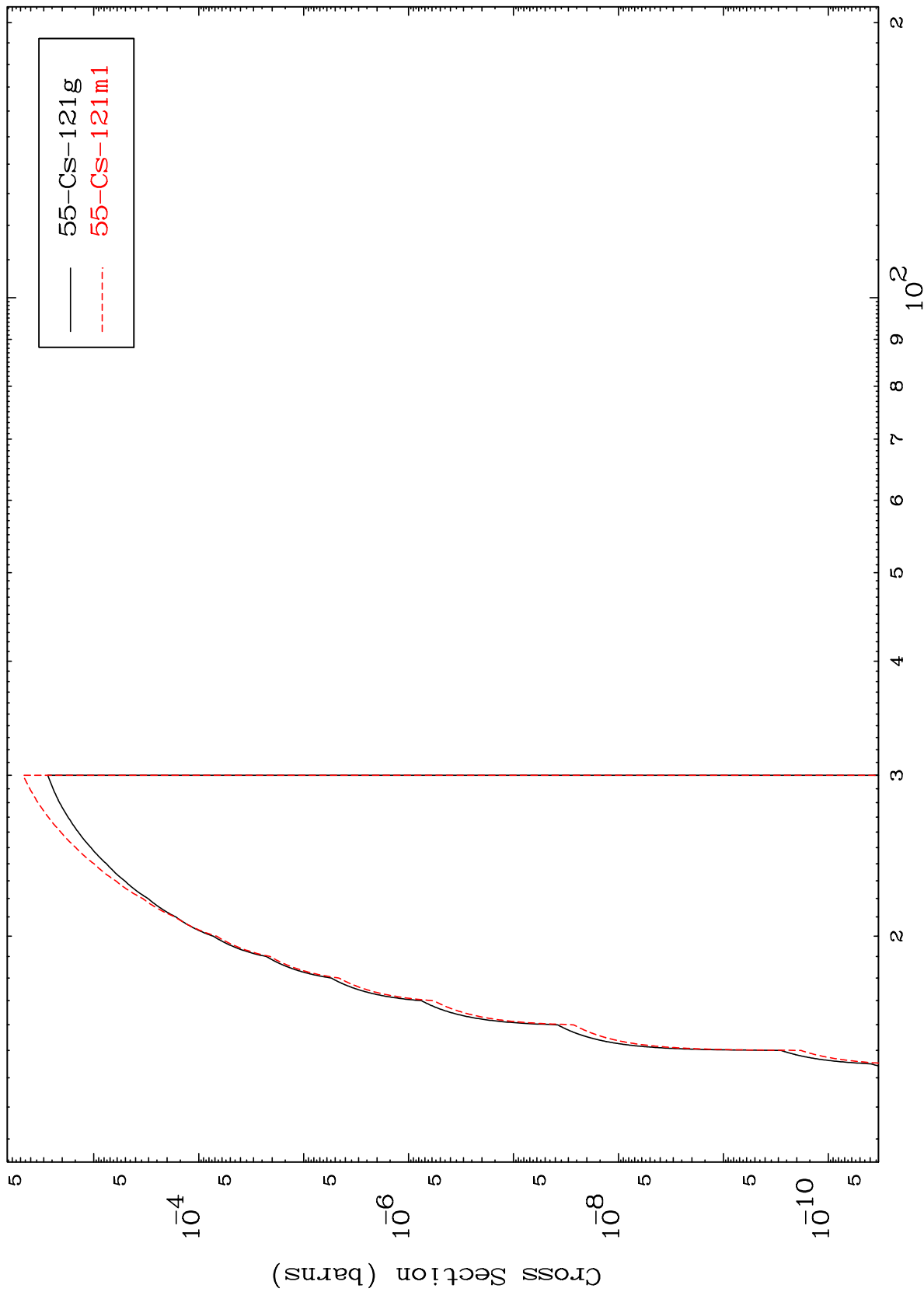
56-Ba-123

MAT 5604

(n,n') d

56-Ba-123

Radionuclide Production Cross Section



99

Incident Energy (MeV)

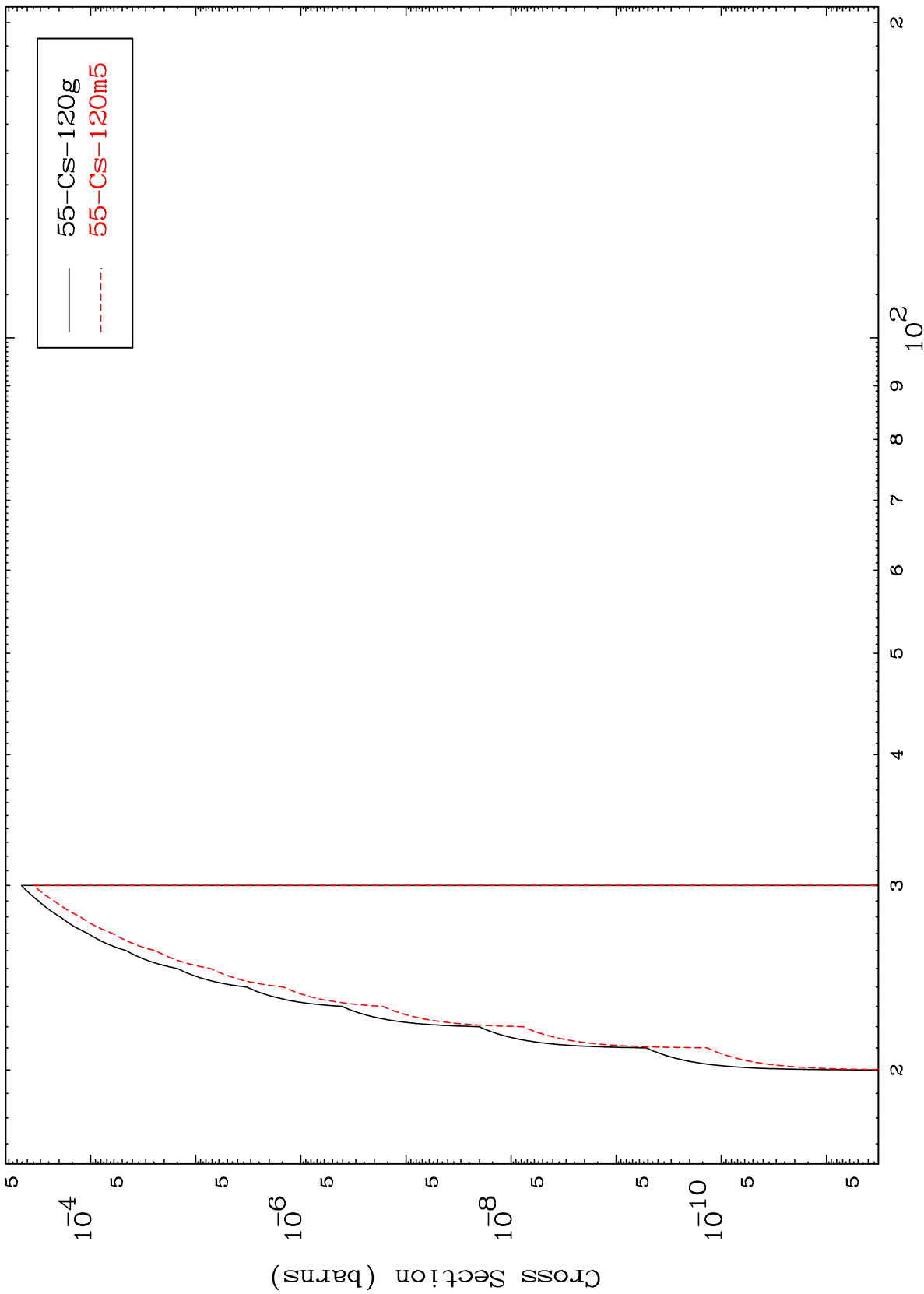
56-Ba-123

MAT 5604

(n,n') t

56-Ba-123

Radionuclide Production Cross Section



100

Incident Energy (MeV)

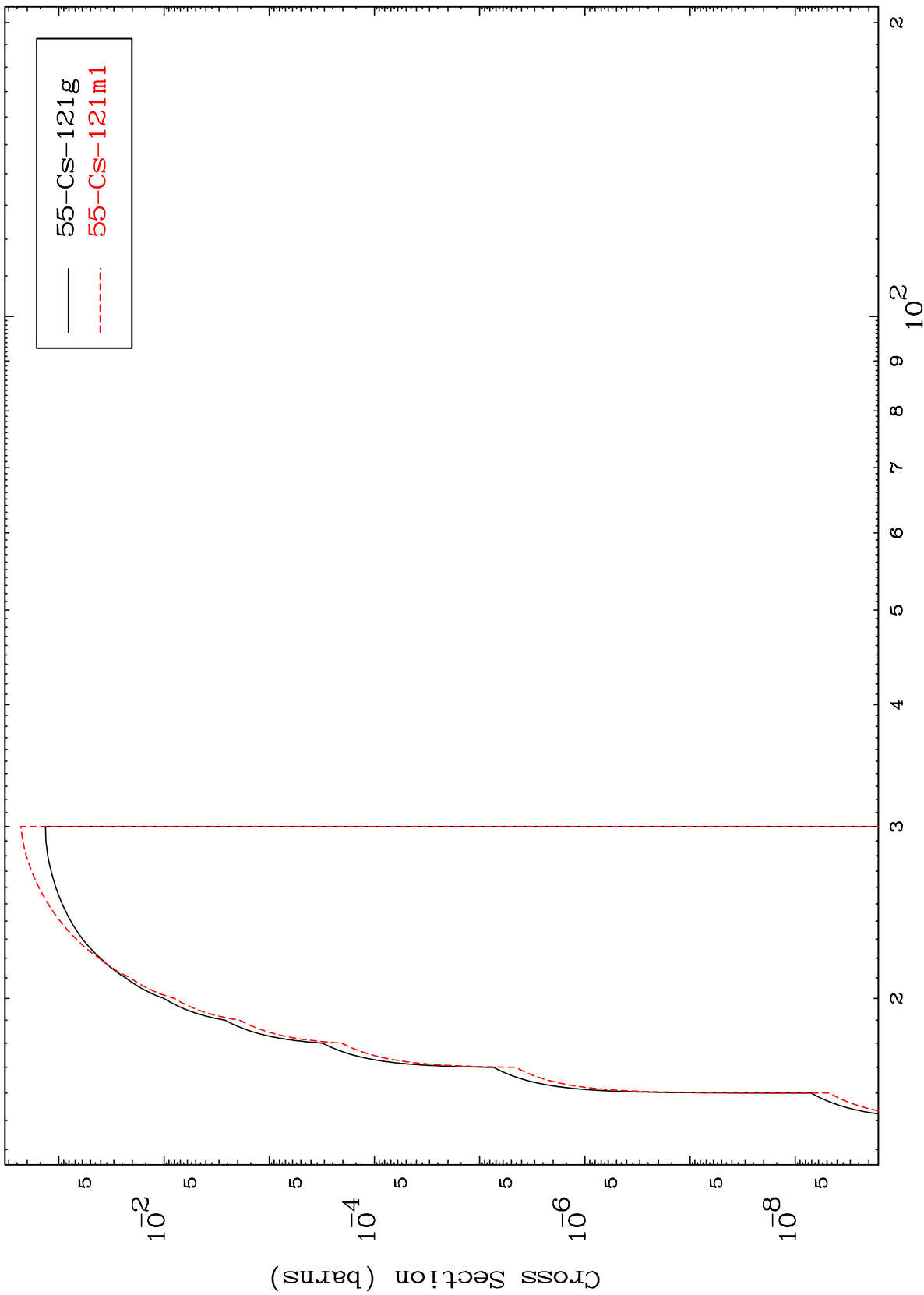
56-Ba-123

MAT 5604

(n,2n) p

56-Ba-123

Radionuclide Production Cross Section



101

Incident Energy (MeV)

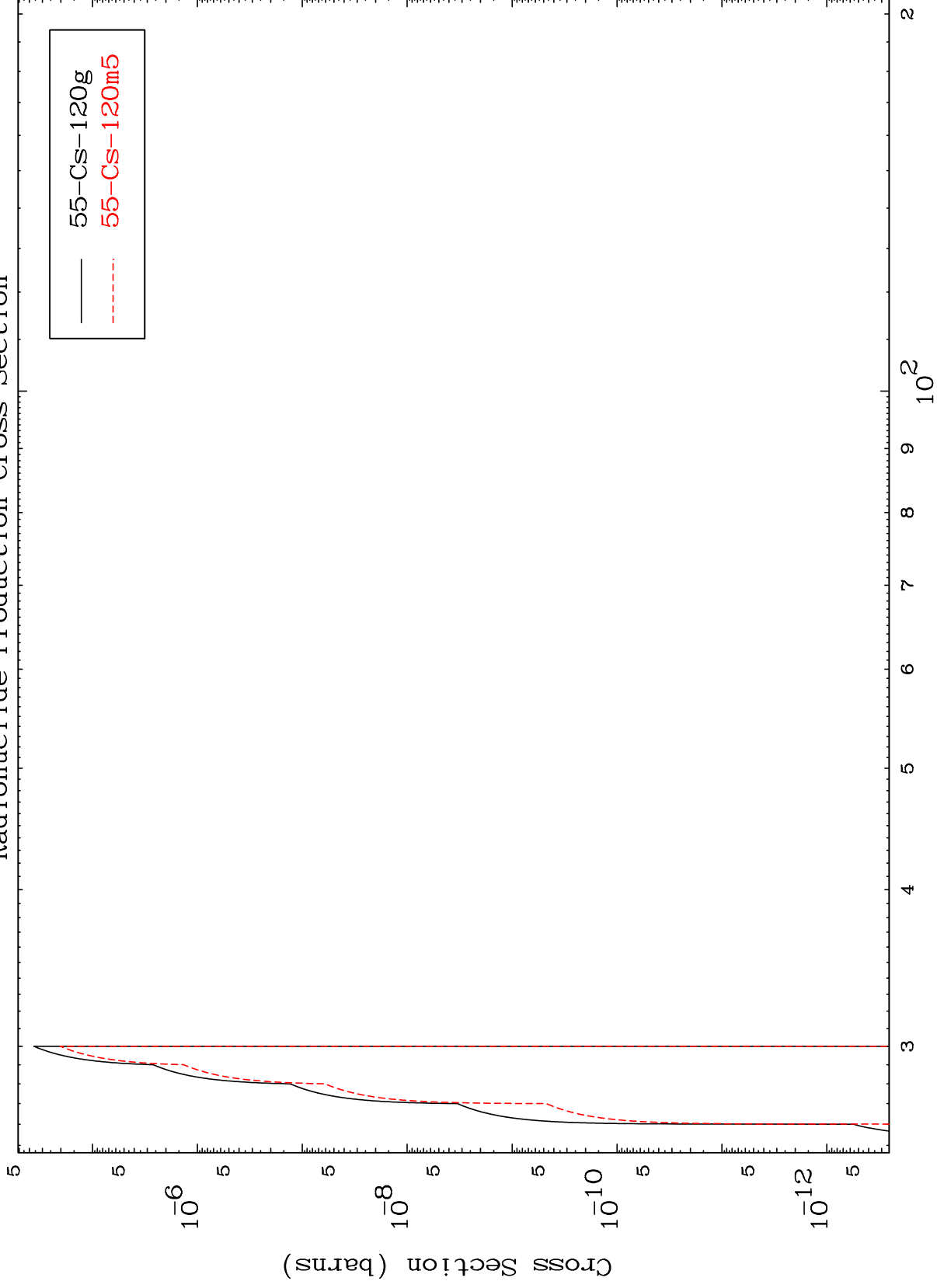
56-Ba-123

MAT 5604

(n,3n) p

56-Ba-123

Radionuclide Production Cross Section



102

Incident Energy (MeV)

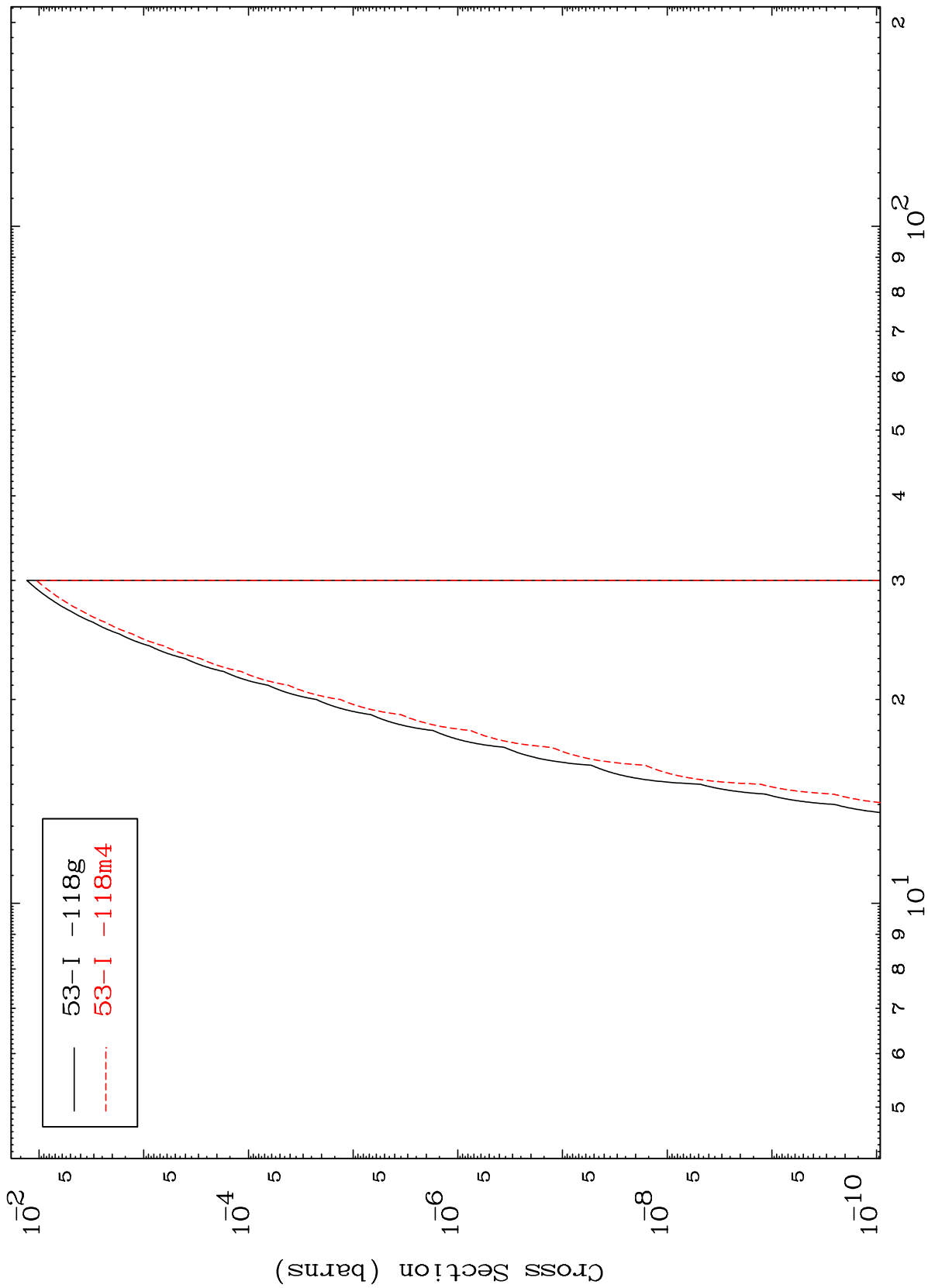
56-Ba-123

MAT 5604

(n,n') p α

56-Ba-123

Radionuclide Production Cross Section



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

103

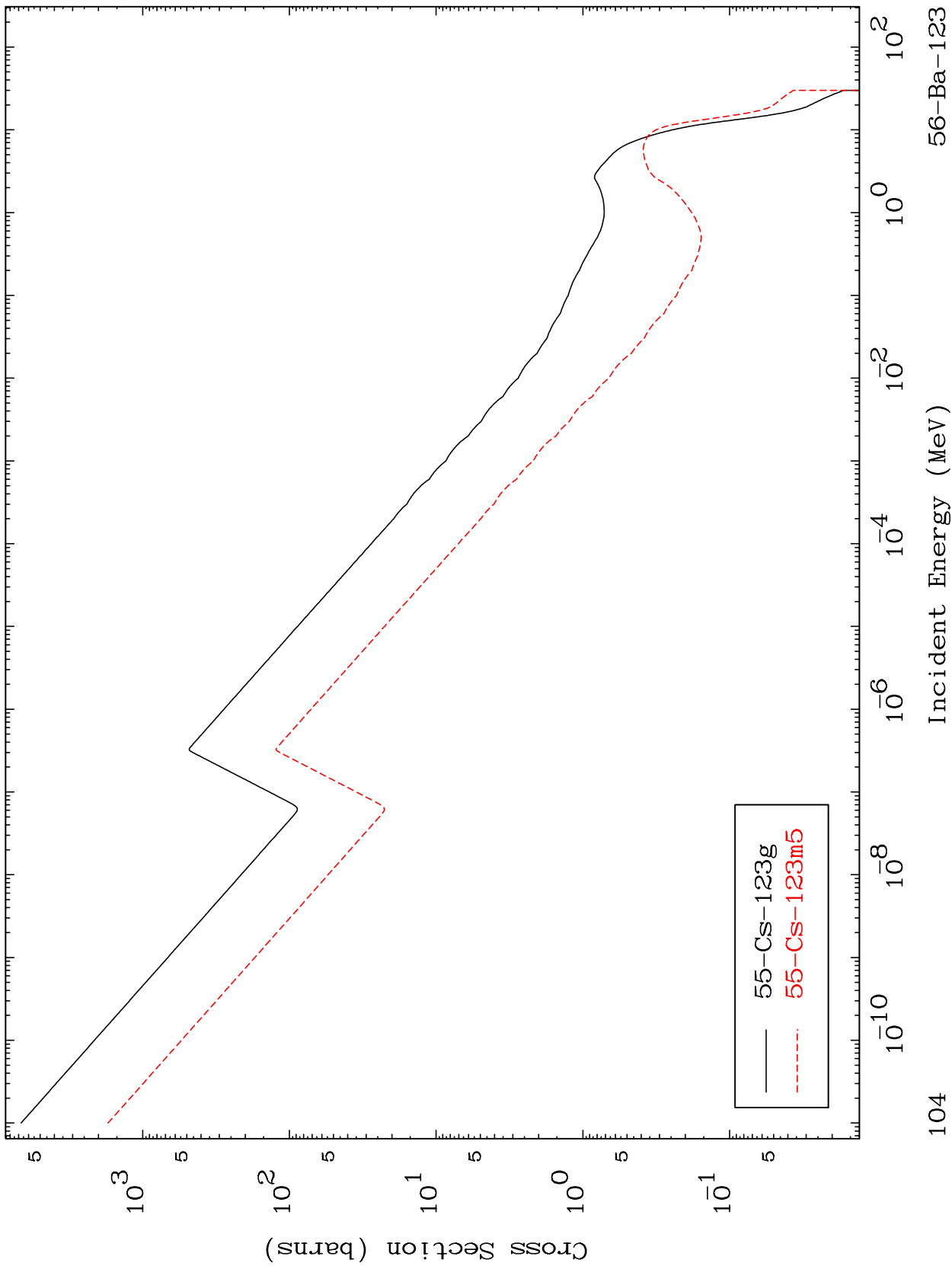
Incident Energy (MeV)

56-Ba-123

MAT 5604

56-Ba-123

(n,p)
Radionuclide Production Cross Section



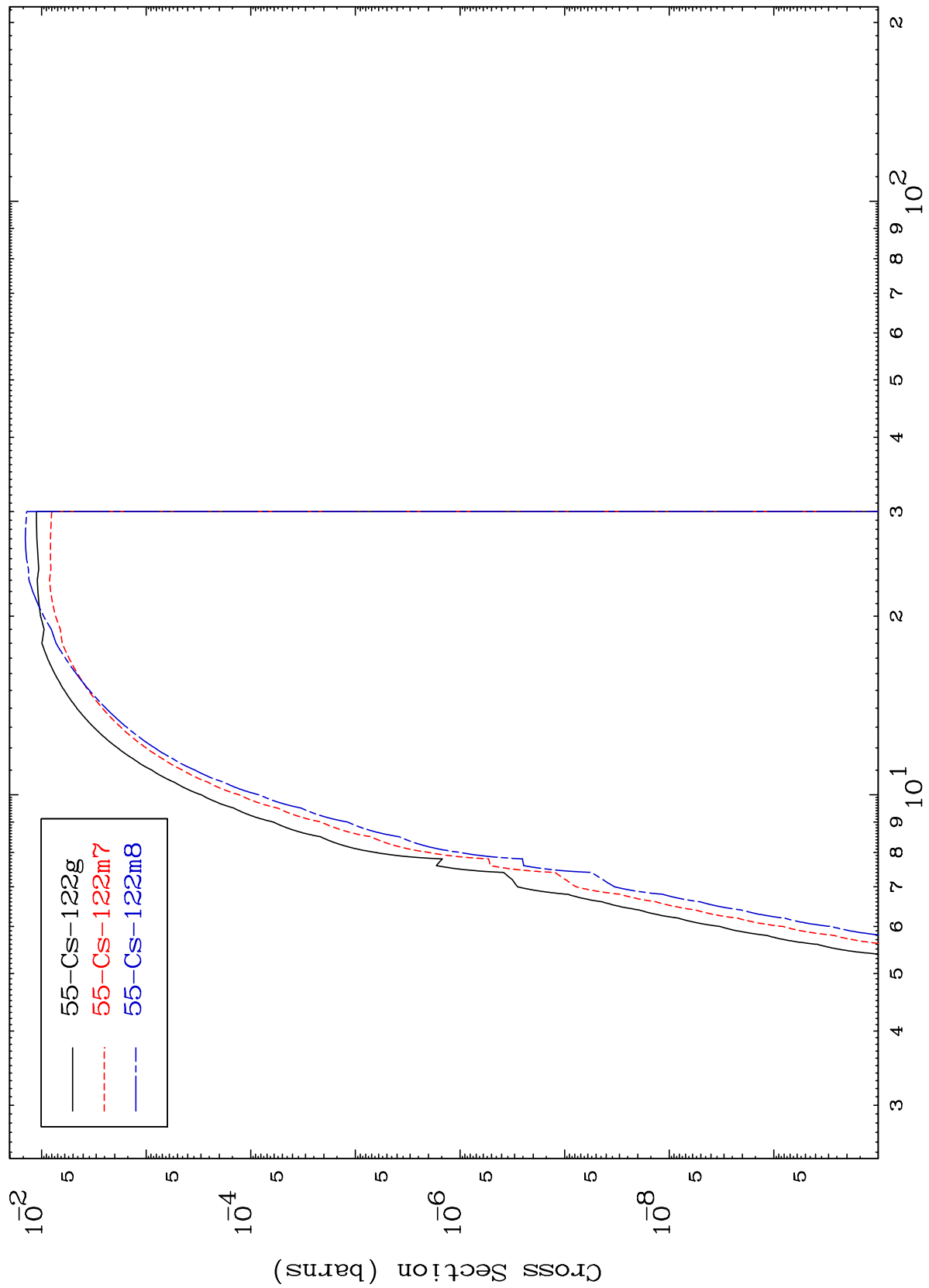
104

56-Ba-123

MAT 5604

56-Ba-123

(n,d)
Radionuclide Production Cross Section



56-Ba-123

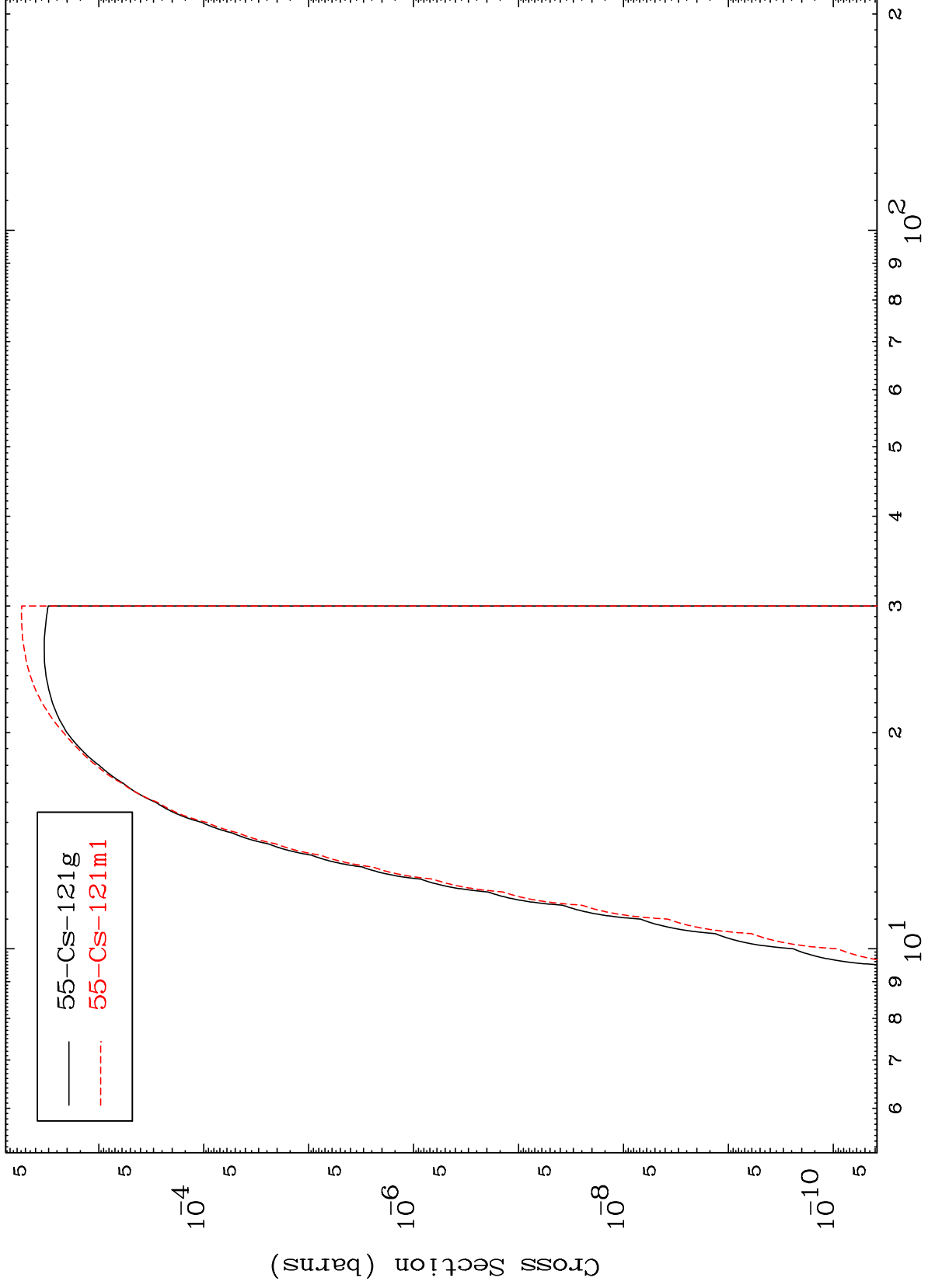
Incident Energy (MeV)

105

MAT 5604

56-Ba-123

(n, t)
Radionuclide Production Cross Section



106

Incident Energy (MeV)

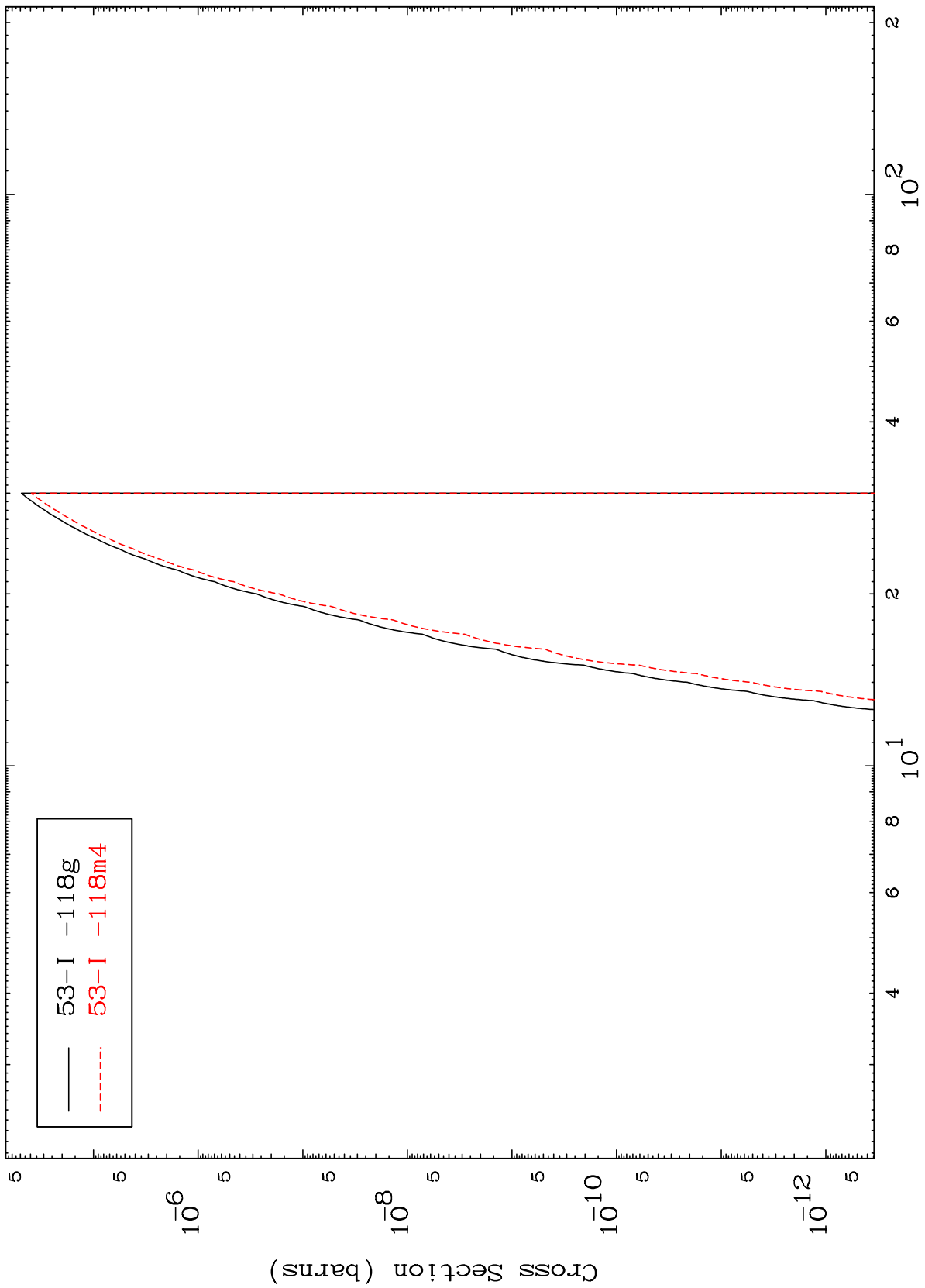
56-Ba-123

MAT 5604

(n,d) α

56-Ba-123

Radionuclide Production Cross Section



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

107

Incident Energy (MeV)

56-Ba-123