

Program EVALPLOT  
(Version 2018-1)

by

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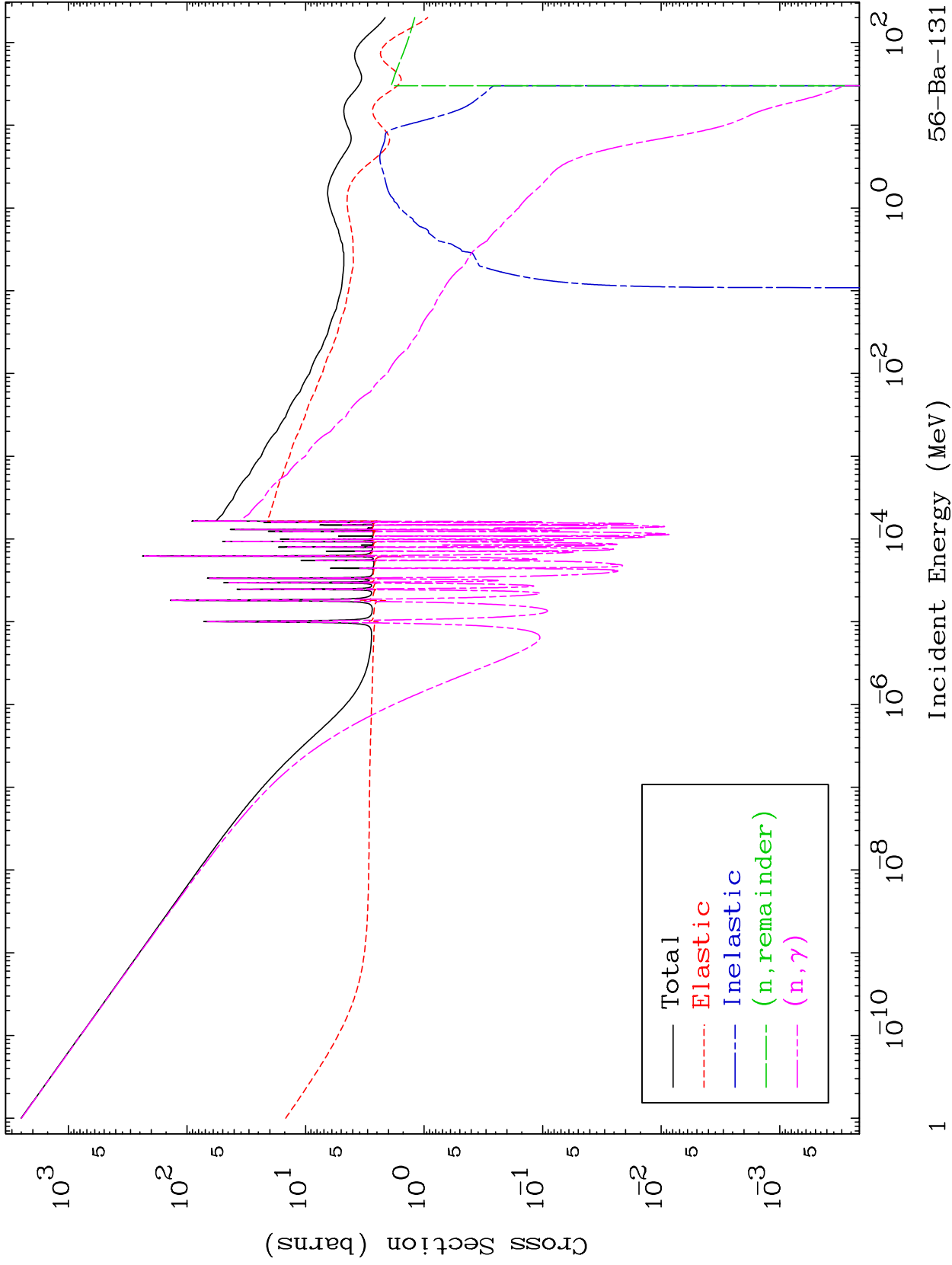
Press Mouse Button to Start

MAT 5628

Major

293 Kelvin Cross Sections

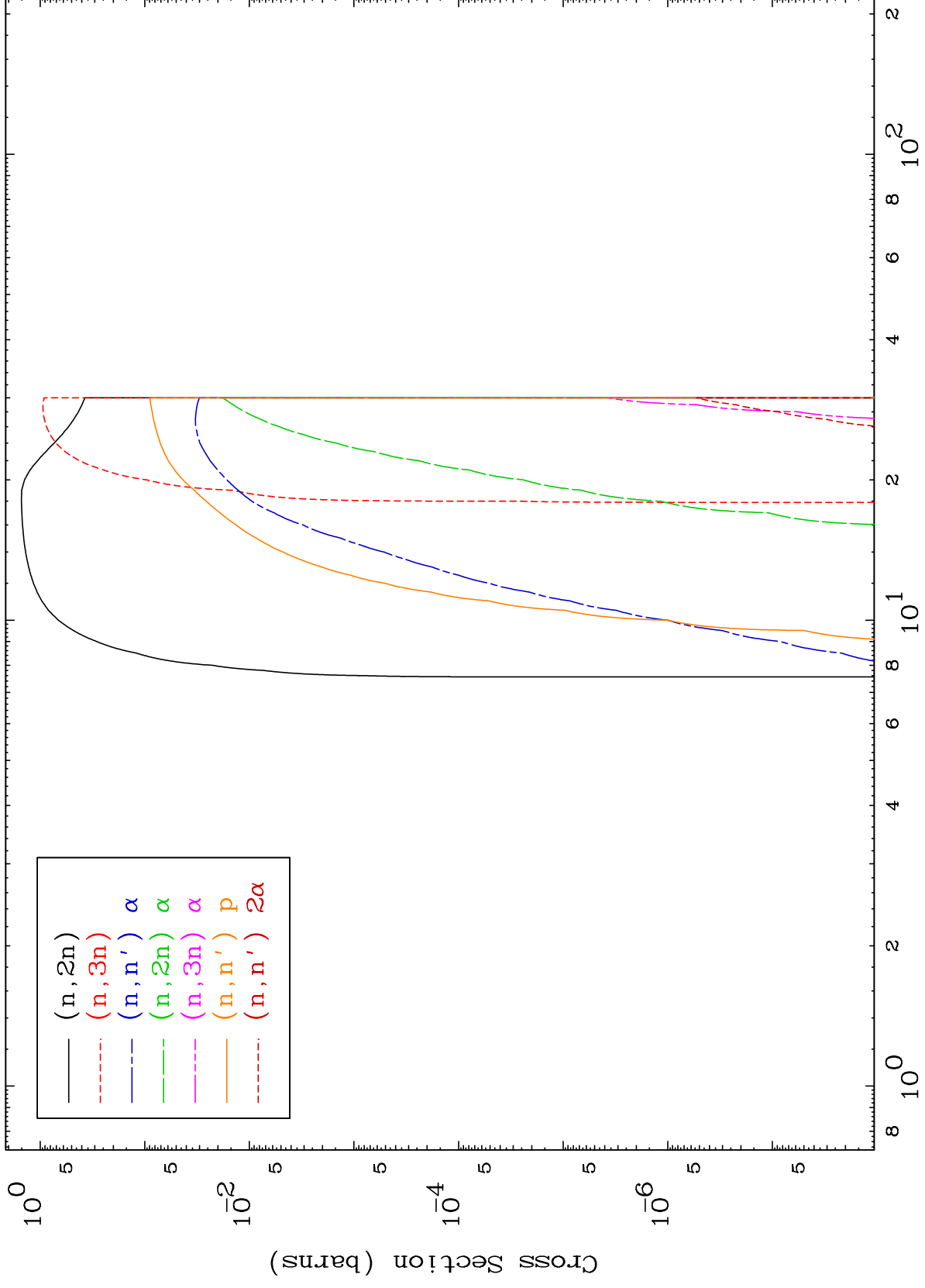
56-Ba-131



MAT 5628

Neutron Production  
293 Kelvin Cross Sections

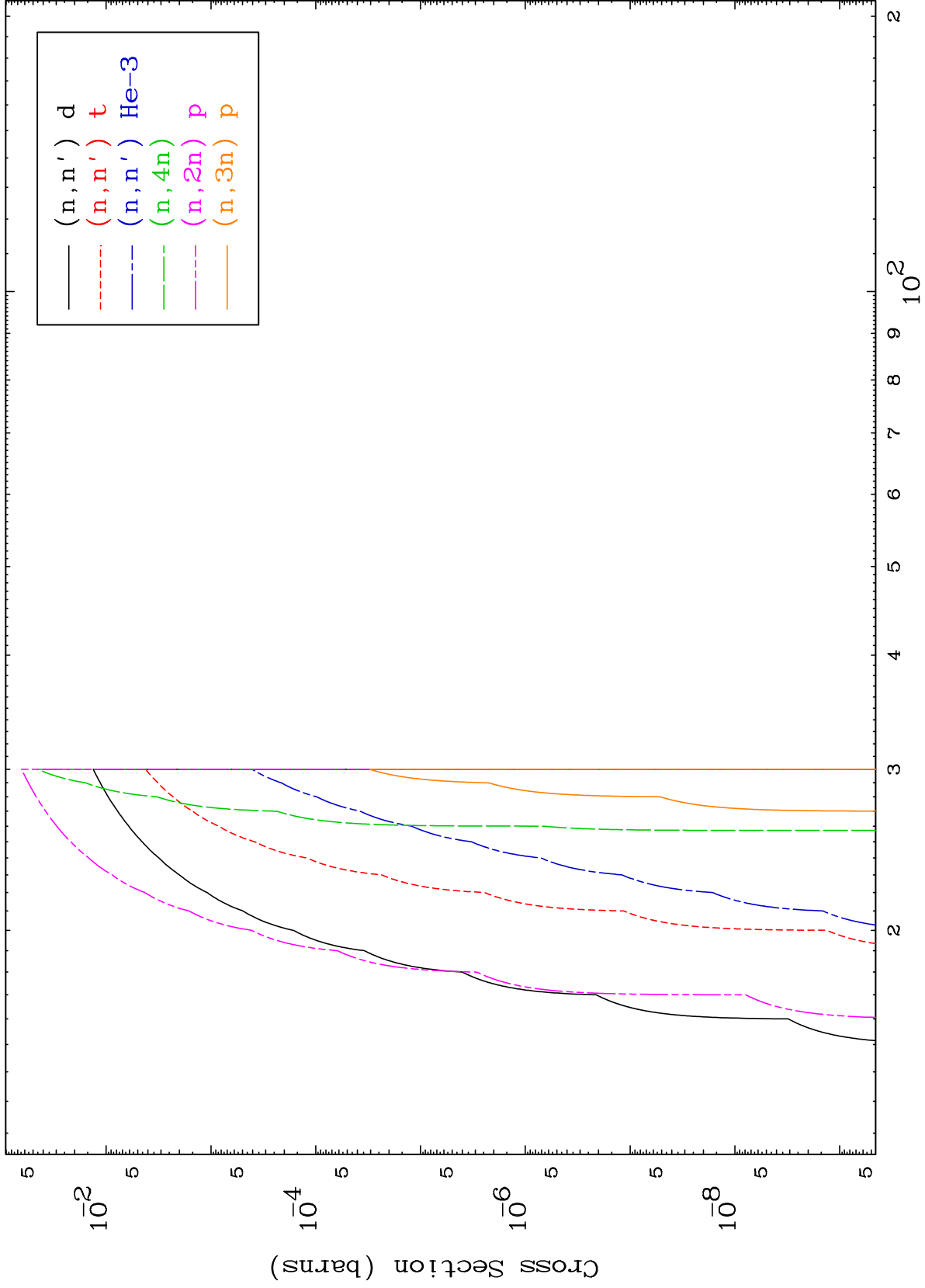
56-Ba-131



56-Ba-131

Incident Energy (MeV)

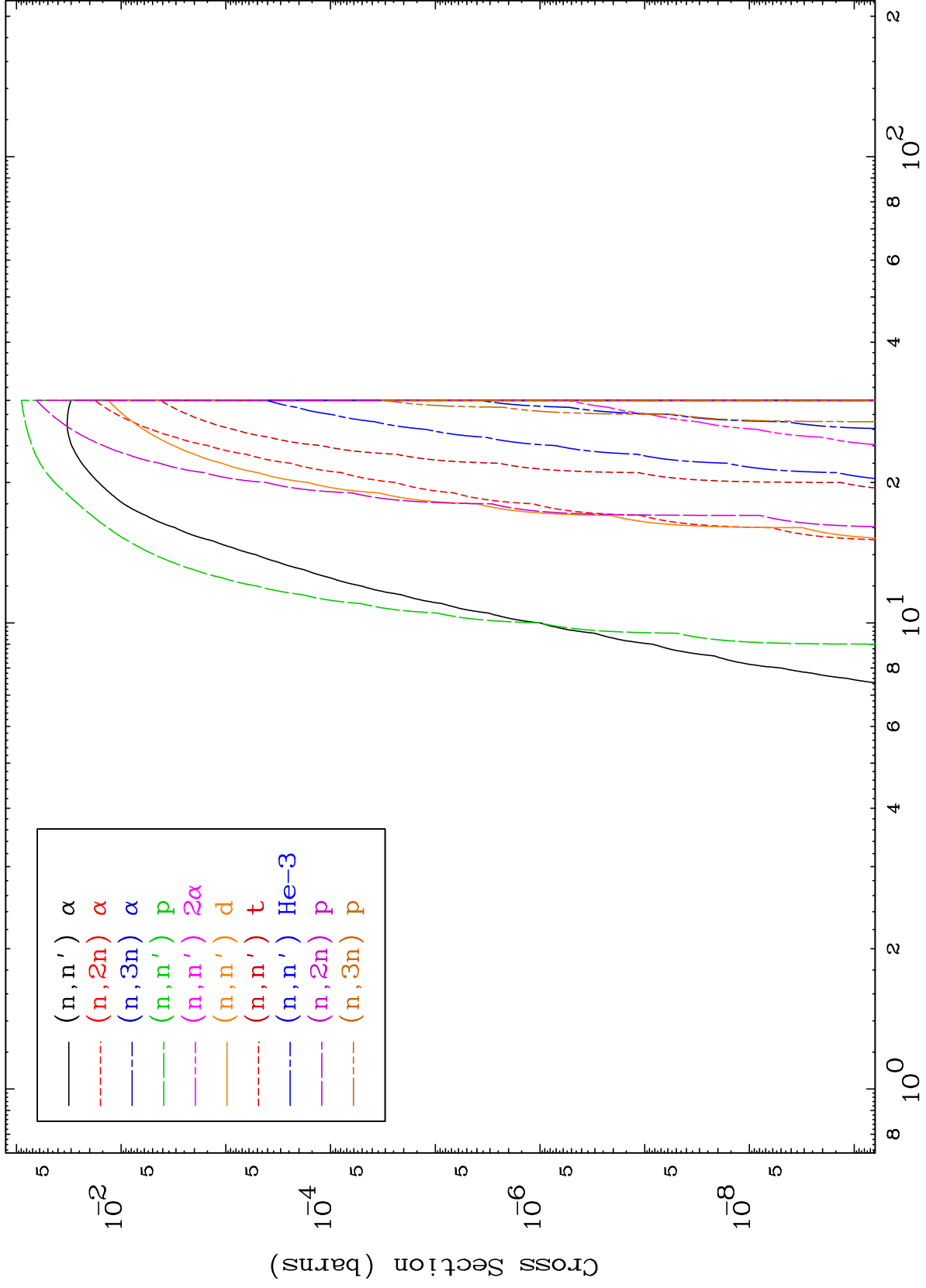
2



MAT 5628

Charged Particle  
293 Kelvin Cross Sections

56-Ba-131



4

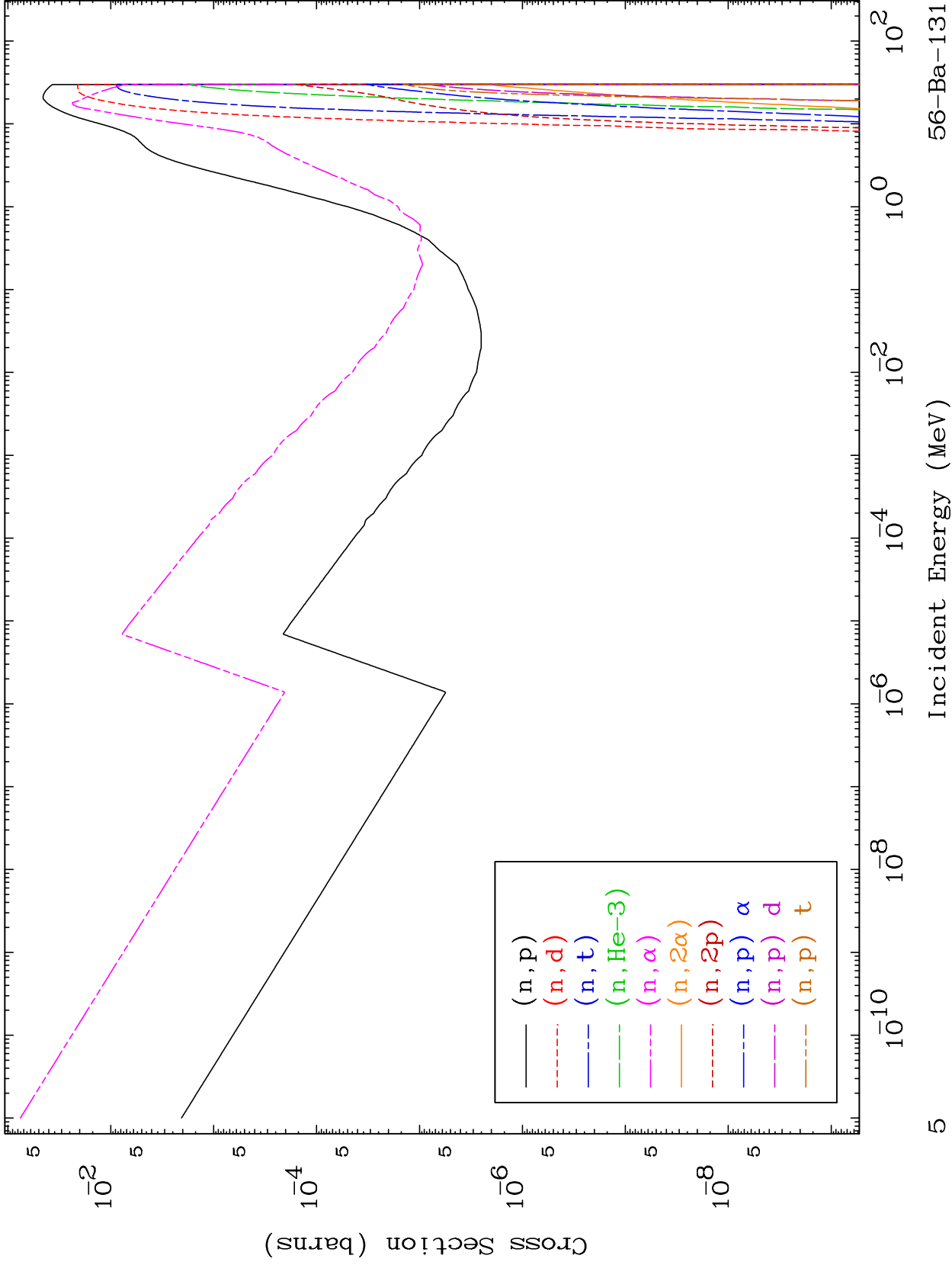
Incident Energy (MeV)

56-Ba-131

MAT 5628

Charged Particle  
293 Kelvin Cross Sections

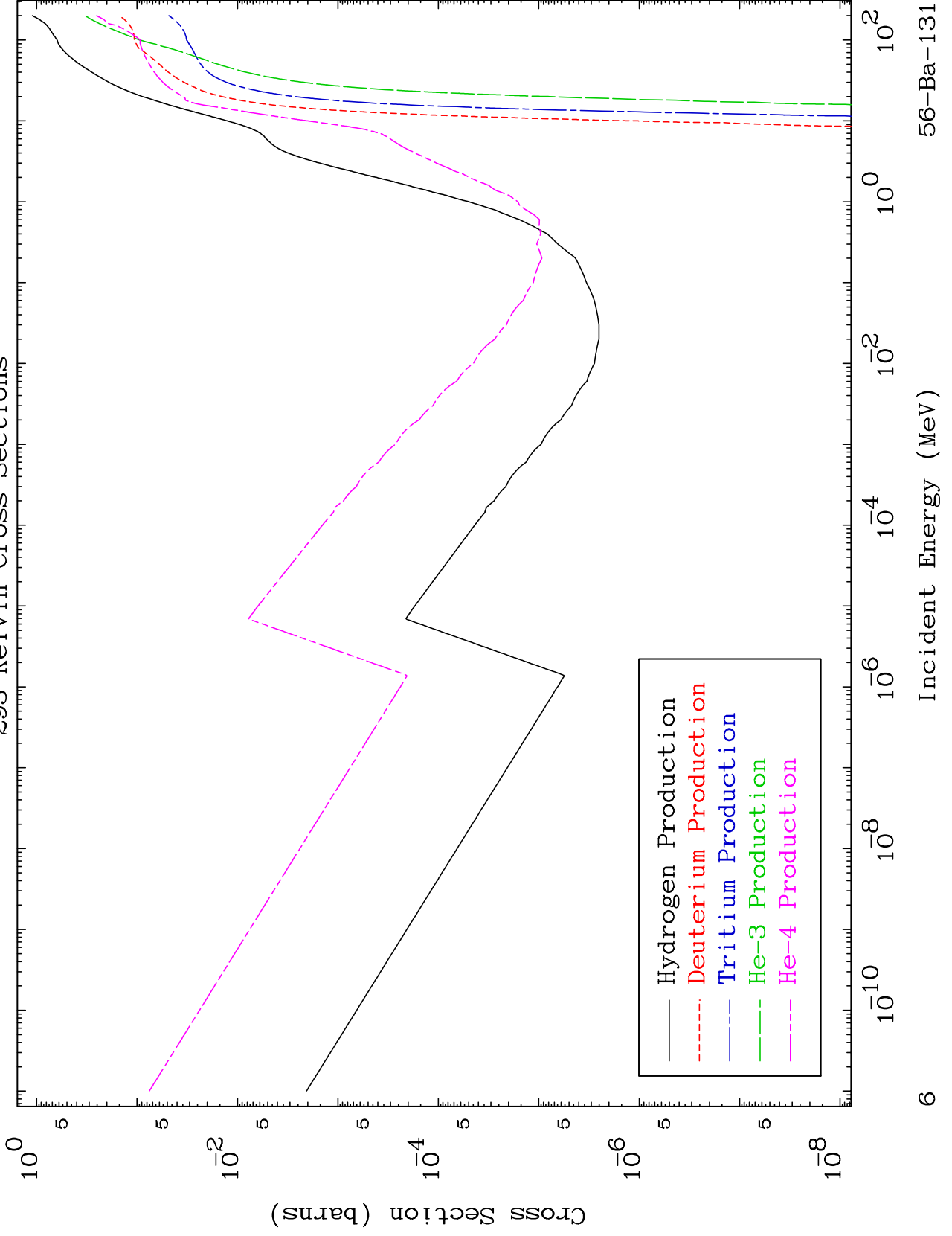
56-Ba-131



MAT 5628

Particle Production  
293 Kelvin Cross Sections

56-Ba-131

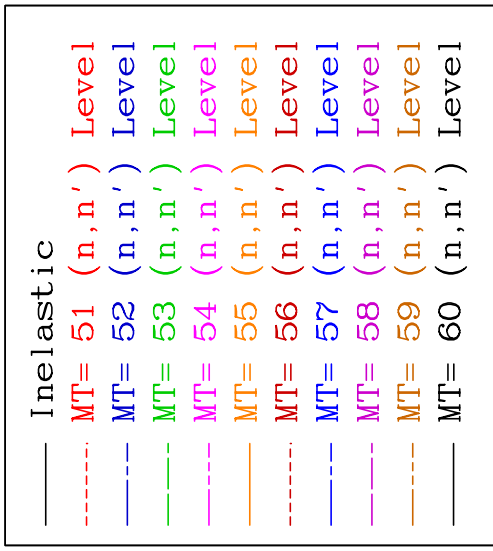
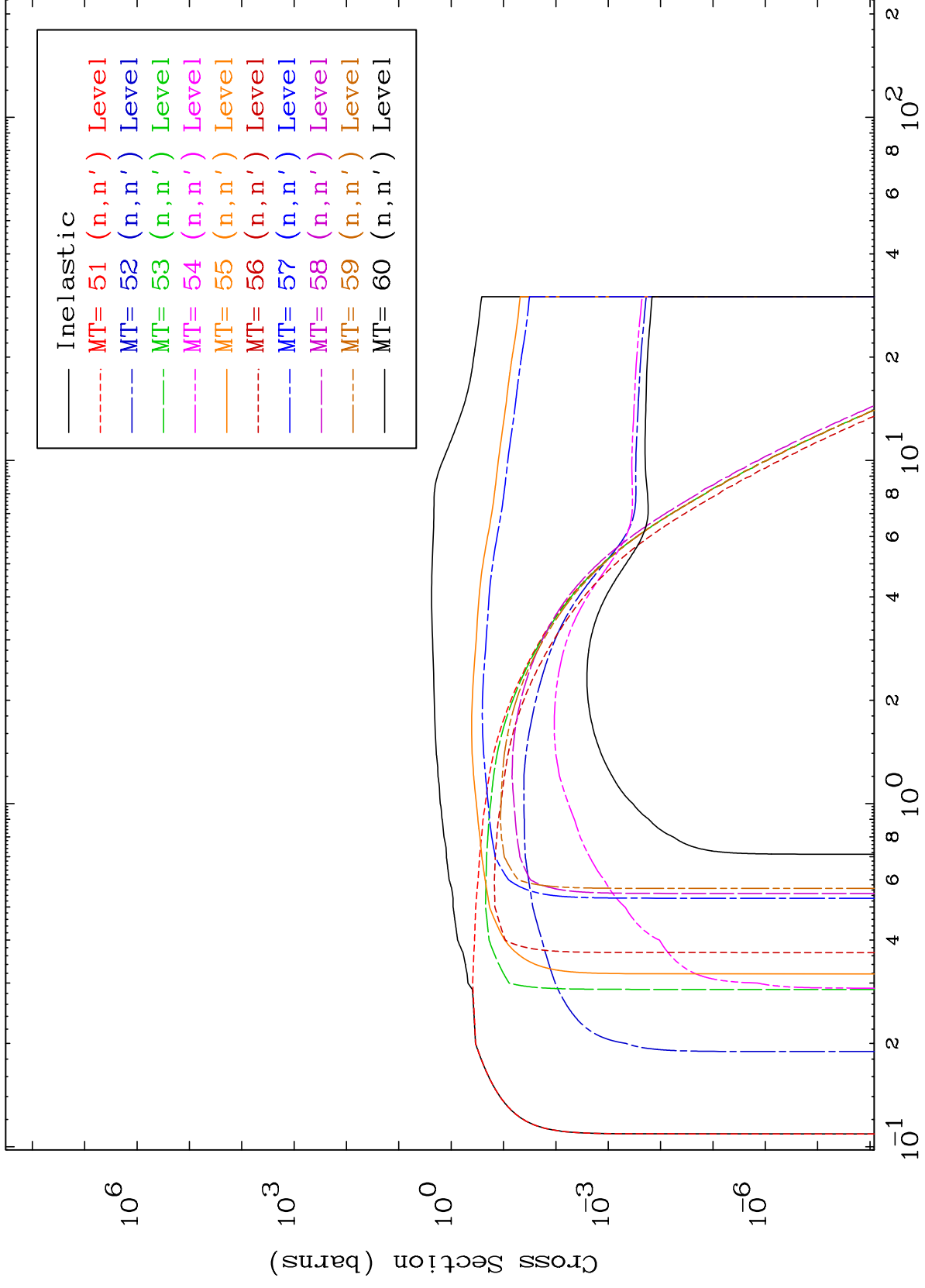


MAT 5628

(n,n') Level

56-Ba-131

293 Kelvin Cross Sections



Incident Energy (MeV)

56-Ba-131

7

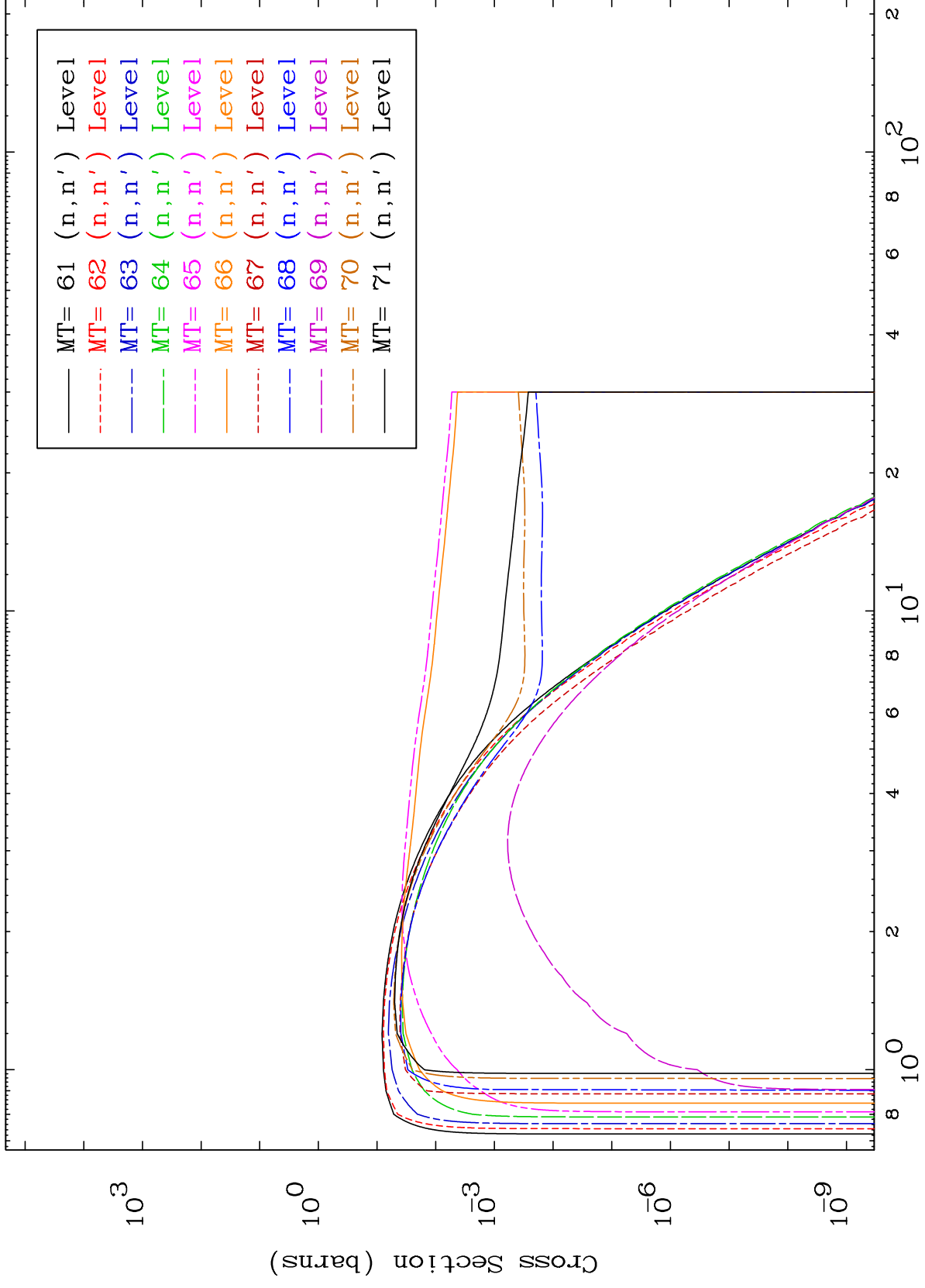


MAT 5628

(n,n') Level

56-Ba-131

293 Kelvin Cross Sections



8

Incident Energy (MeV)

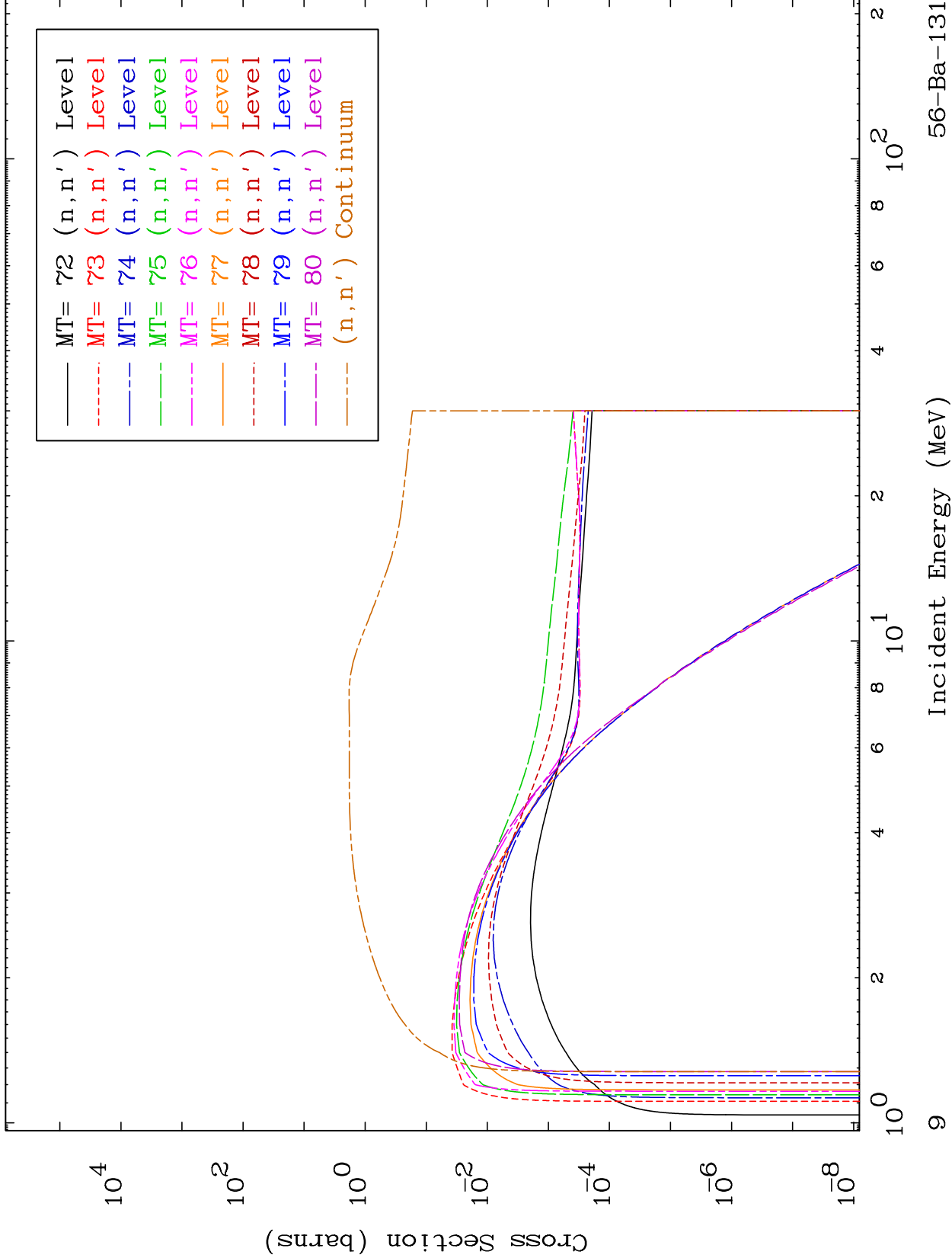
56-Ba-131

MAT 5628

(n,n') Level

56-Ba-131

293 Kelvin Cross Sections



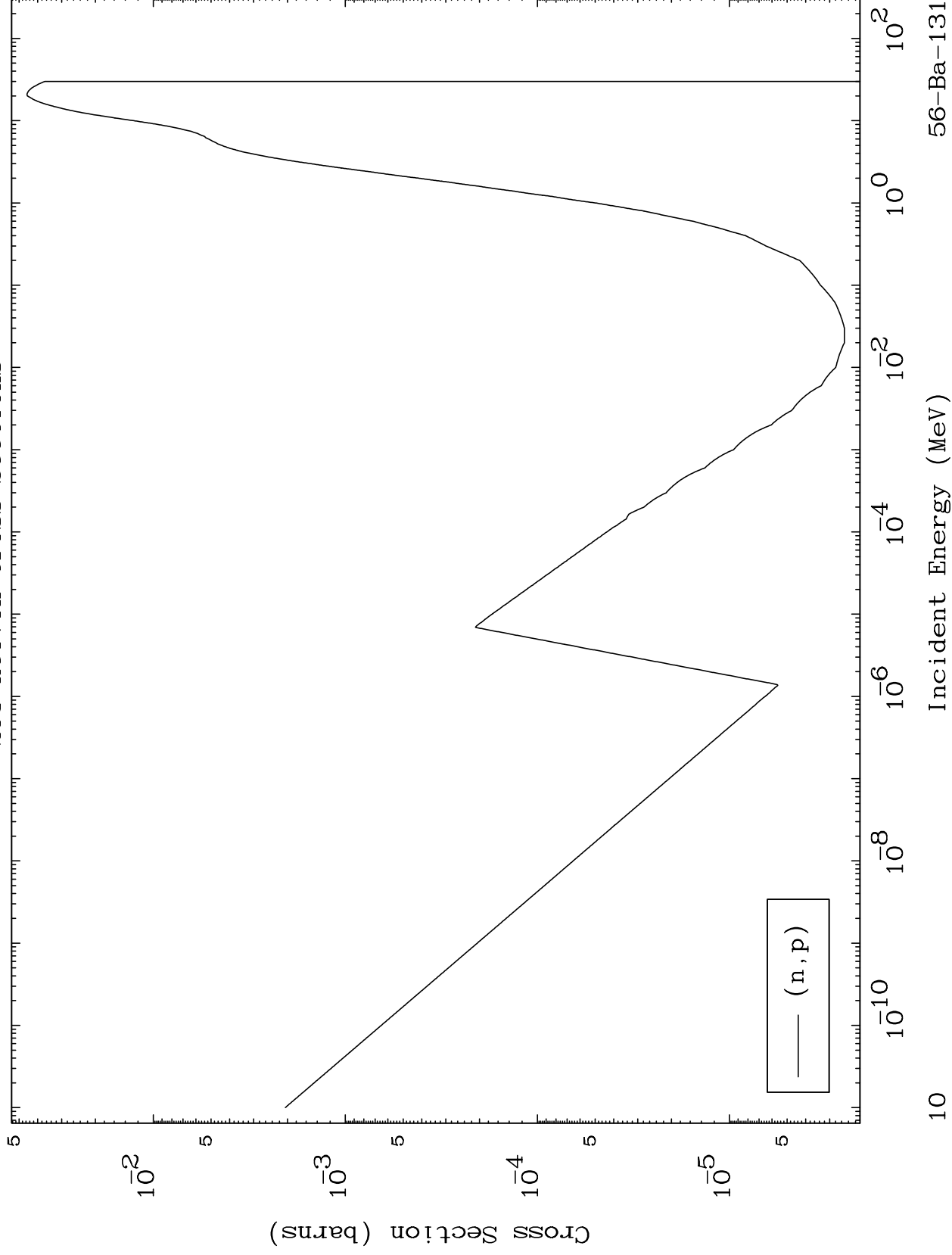
Incident Energy (MeV)

56-Ba-131

MAT 5628

(n,p) Levels  
293 Kelvin Cross Sections

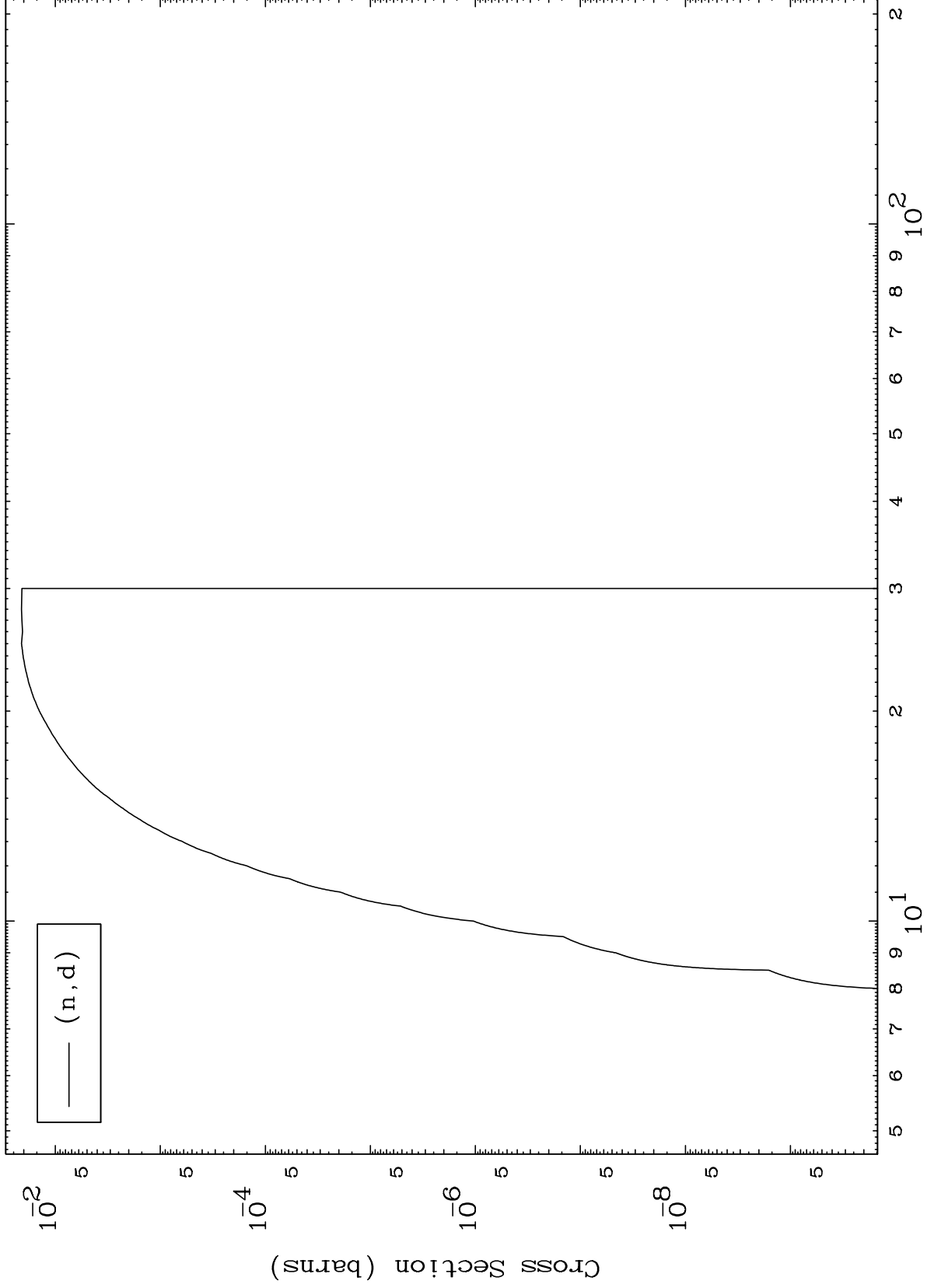
56-Ba-131



MAT 5628

(n,d) Levels  
293 Kelvin Cross Sections

56-Ba-131



11

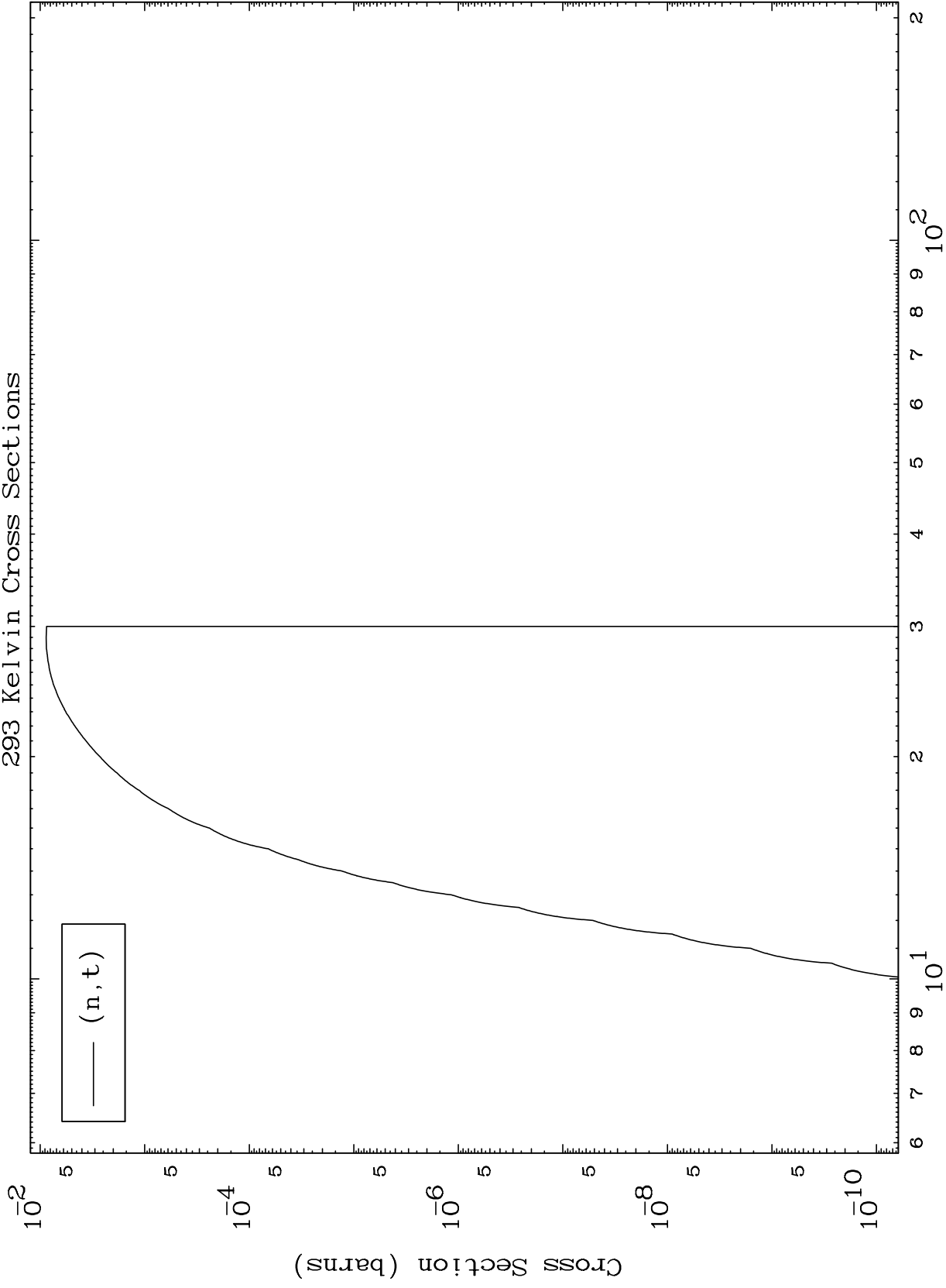
Incident Energy (MeV)

56-Ba-131

MAT 5628

(n,t) Levels  
293 Kelvin Cross Sections

56-Ba-131



12

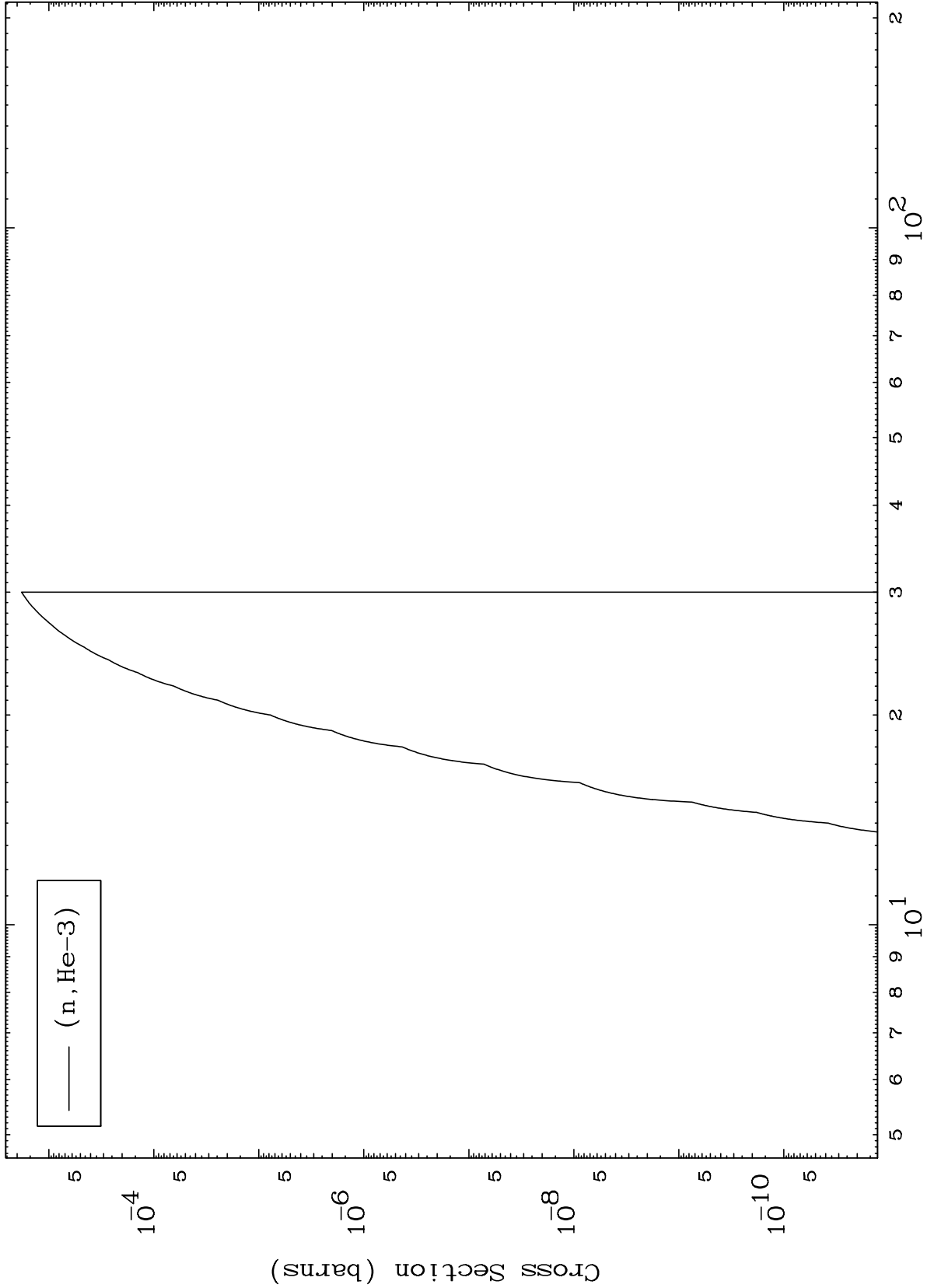
Incident Energy (MeV)

56-Ba-131

MAT 5628

56-Ba-131

(n,He3) Levels  
293 Kelvin Cross Sections



13

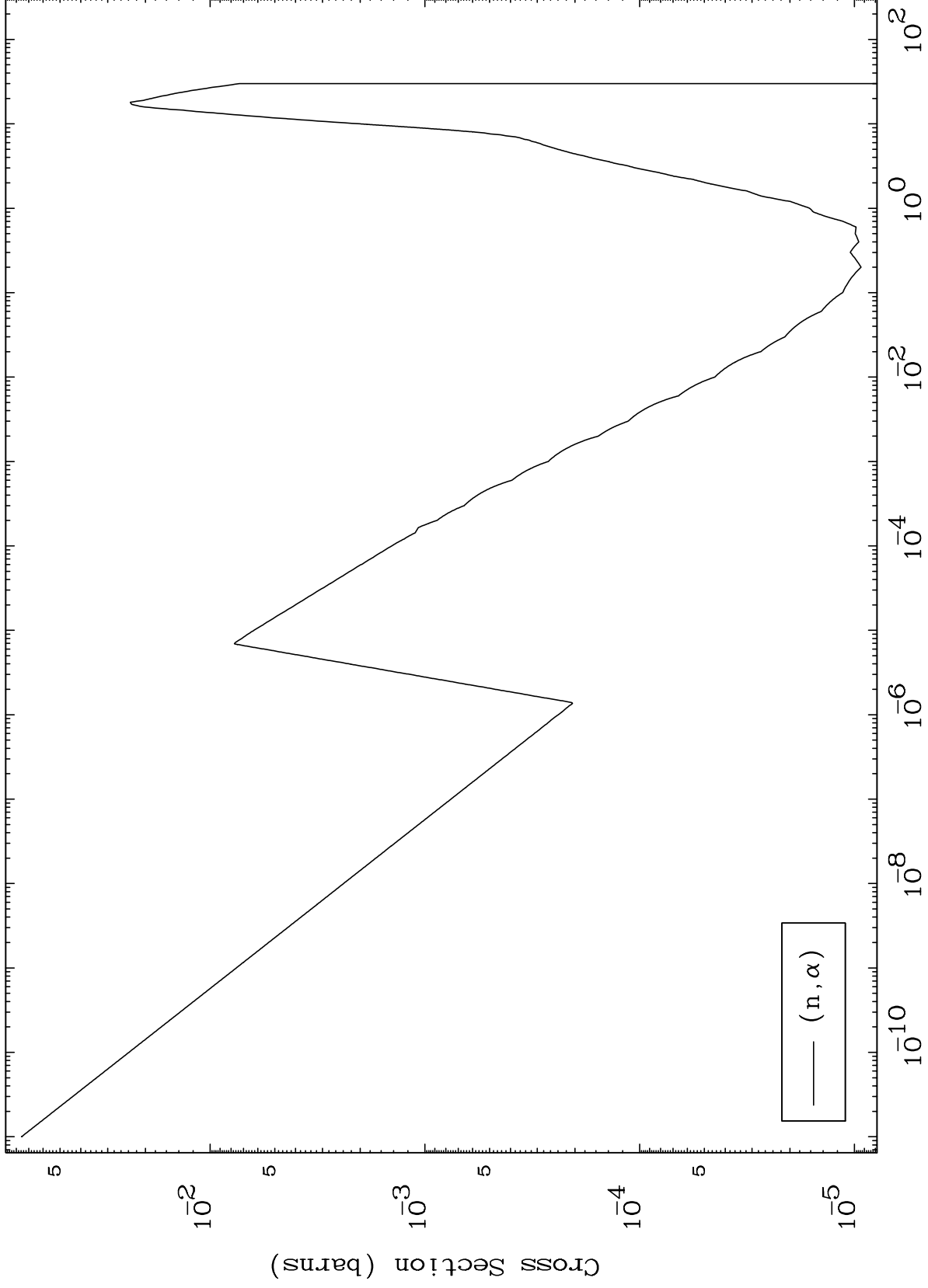
Incident Energy (MeV)

56-Ba-131

MAT 5628

(n,  $\alpha$ ) Levels  
293 Kelvin Cross Sections

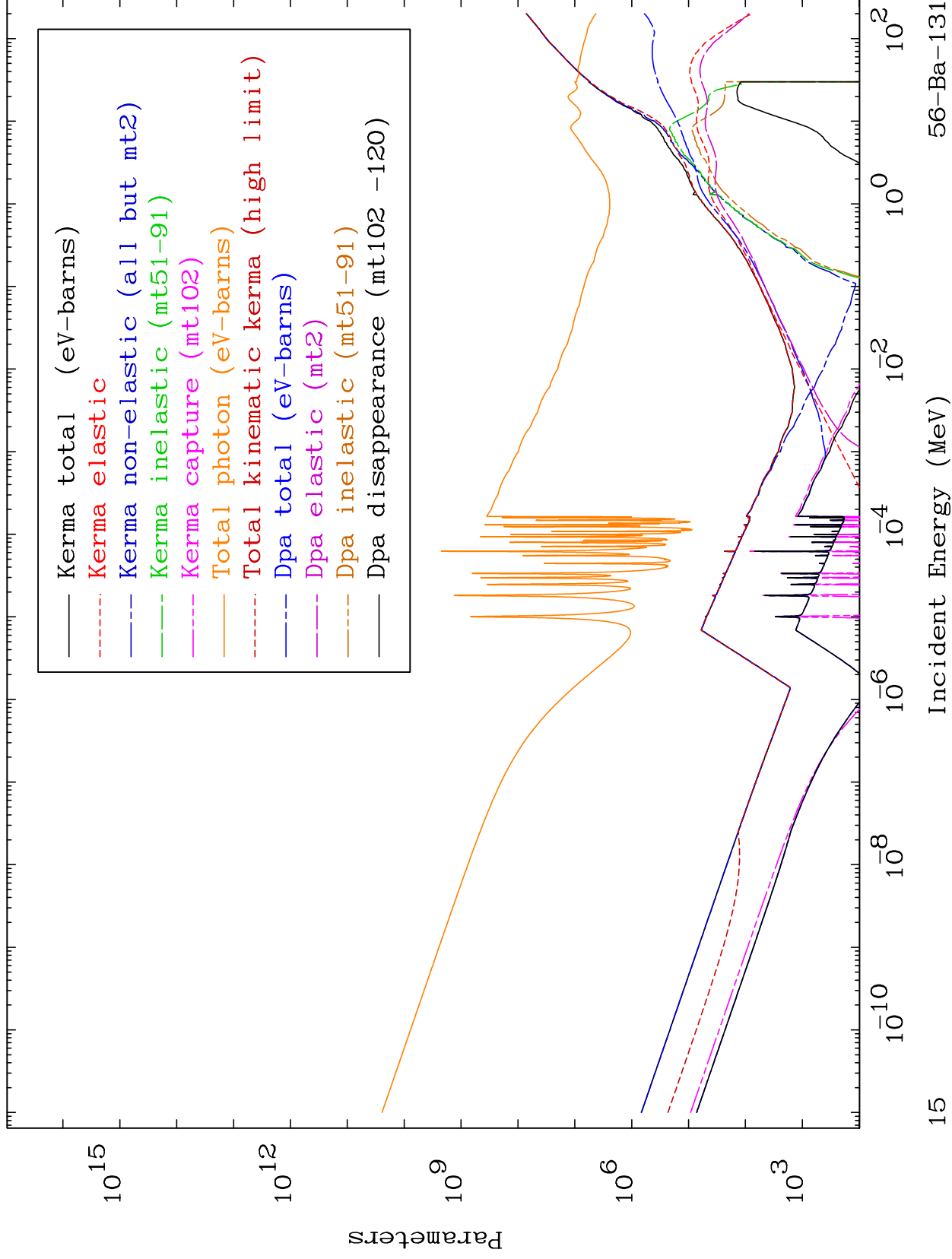
56-Ba-131



14

Incident Energy (MeV)

56-Ba-131

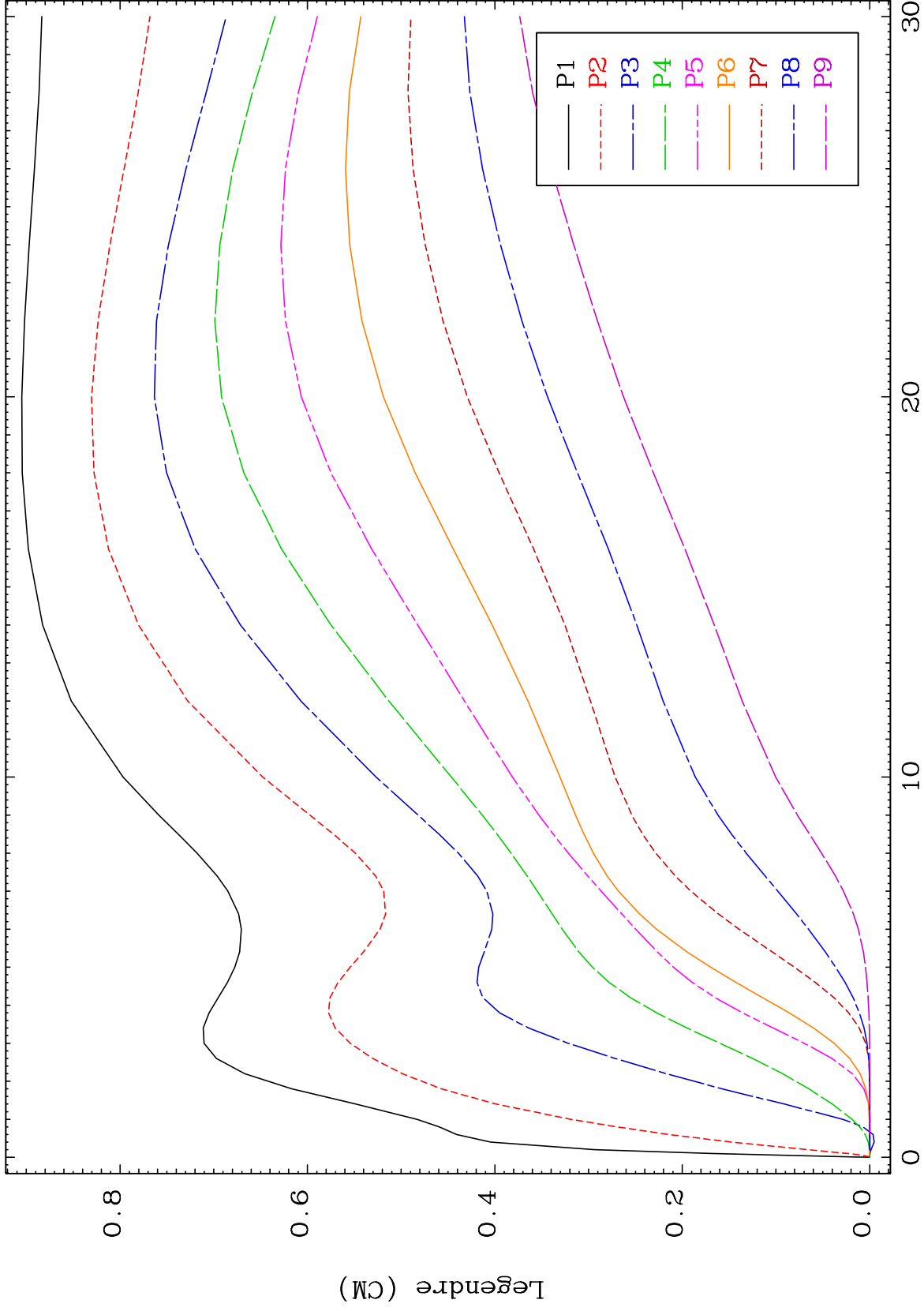




MAT 5628

Elastic Legendre Coefficients

56-Ba-131



16

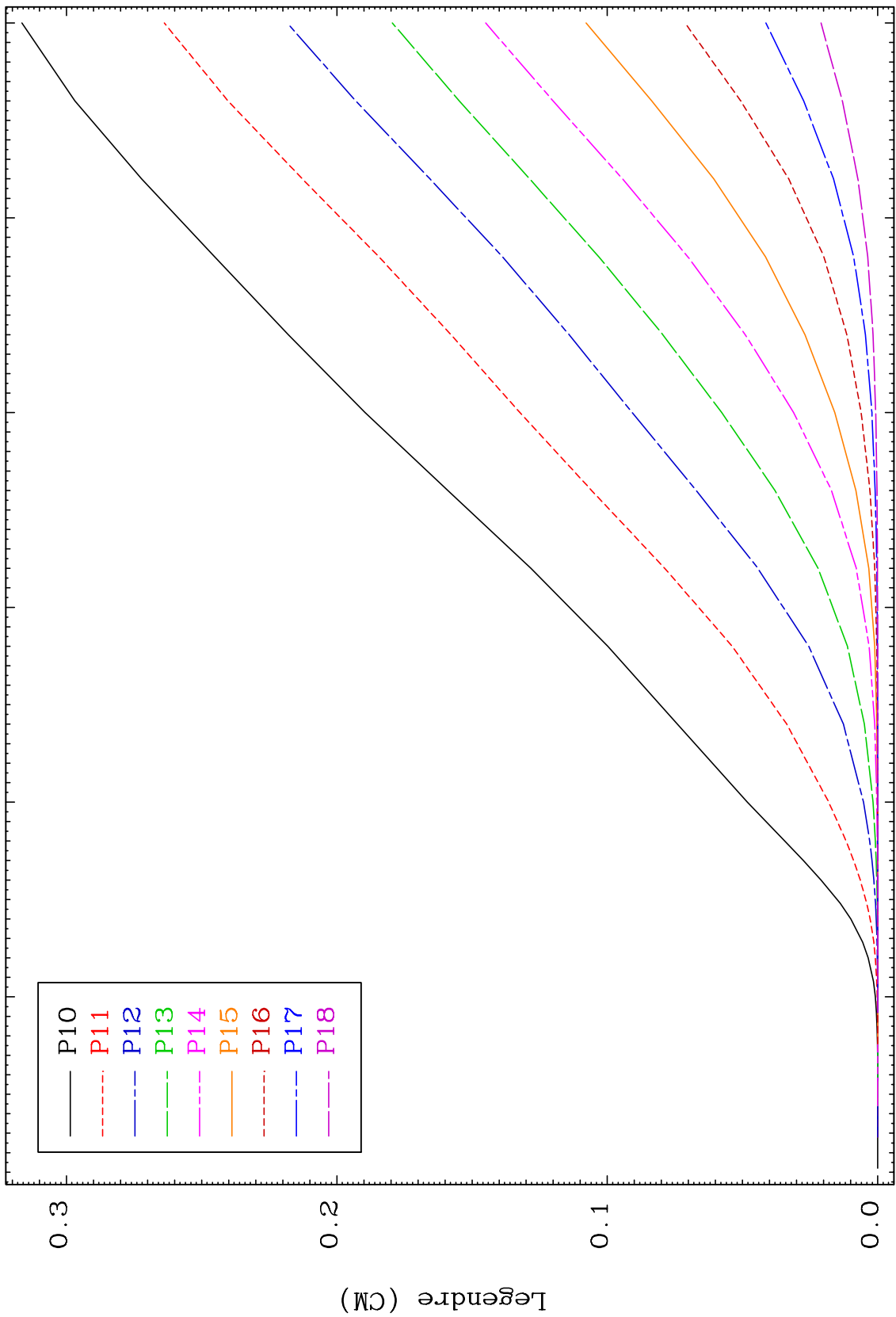
Incident Energy (MeV)

56-Ba-131

MAT 5628

Elastic Legendre Coefficients

56-Ba-131



17

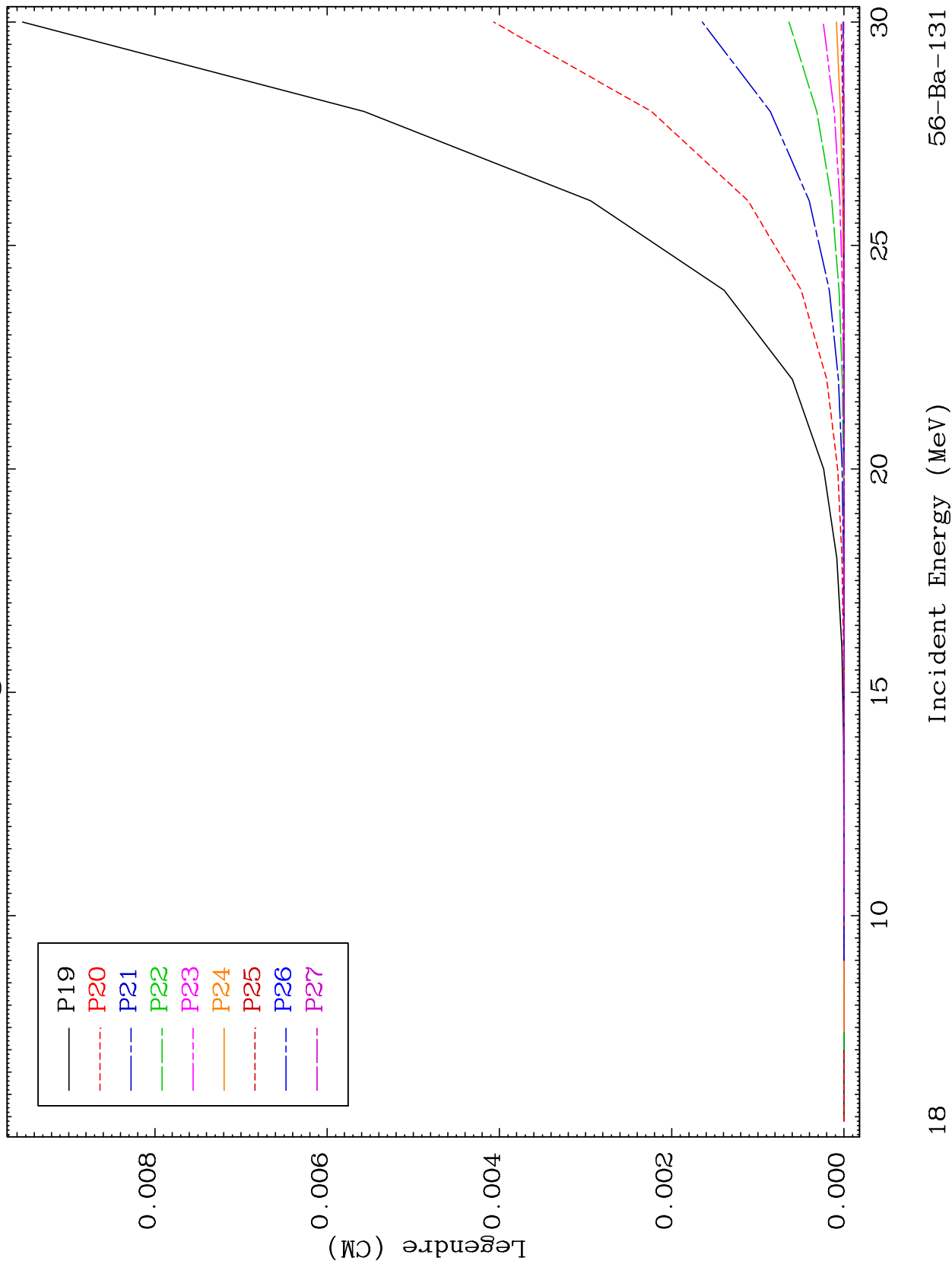
Incident Energy (MeV)

56-Ba-131

MAT 5628

### Elastic Legendre Coefficients

56-Ba-131



18

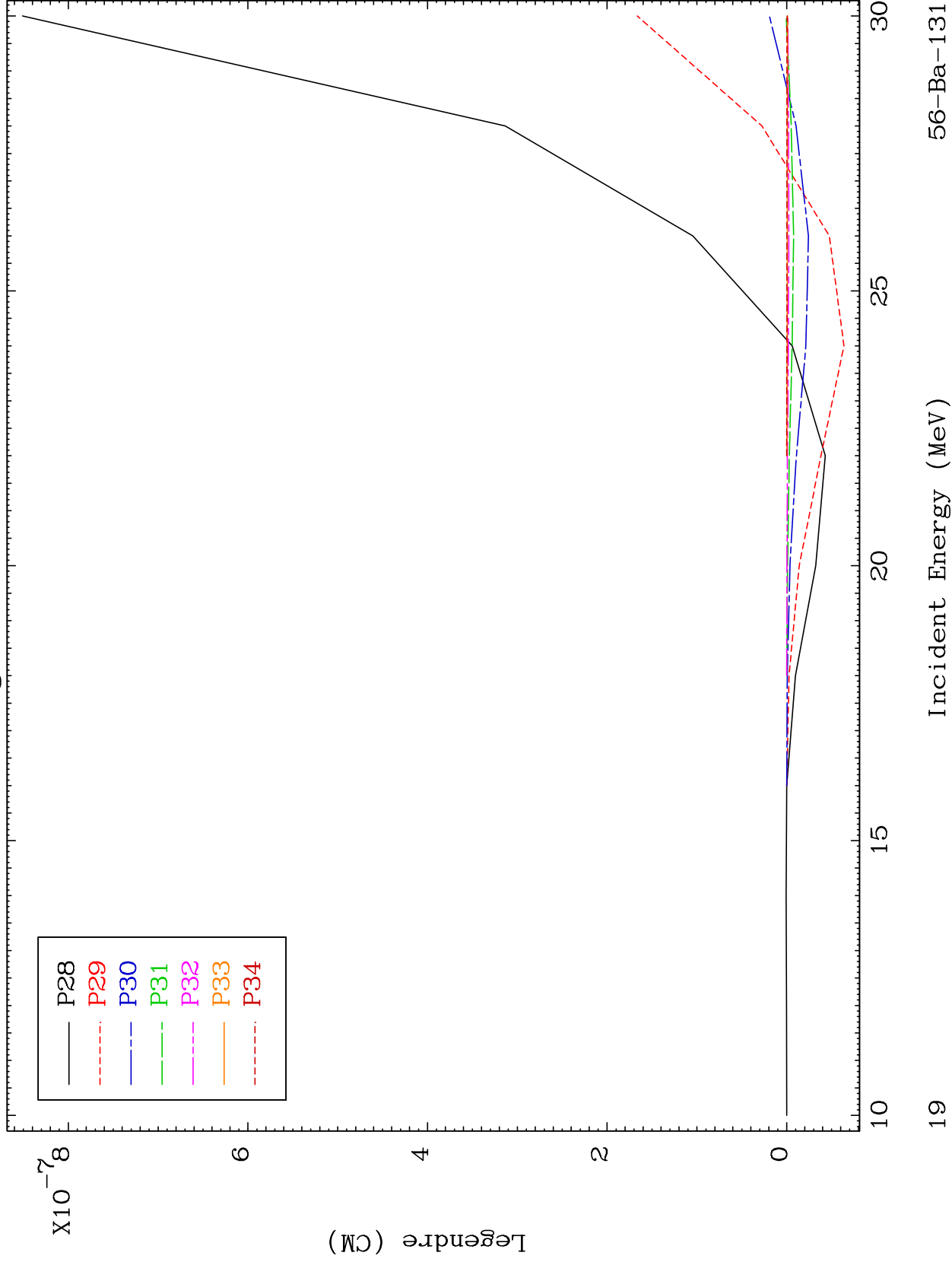
56-Ba-131

Incident Energy (MeV)

MAT 5628

Elastic  
Legendre Coefficients

56-Ba-131



56-Ba-131

Incident Energy (MeV)

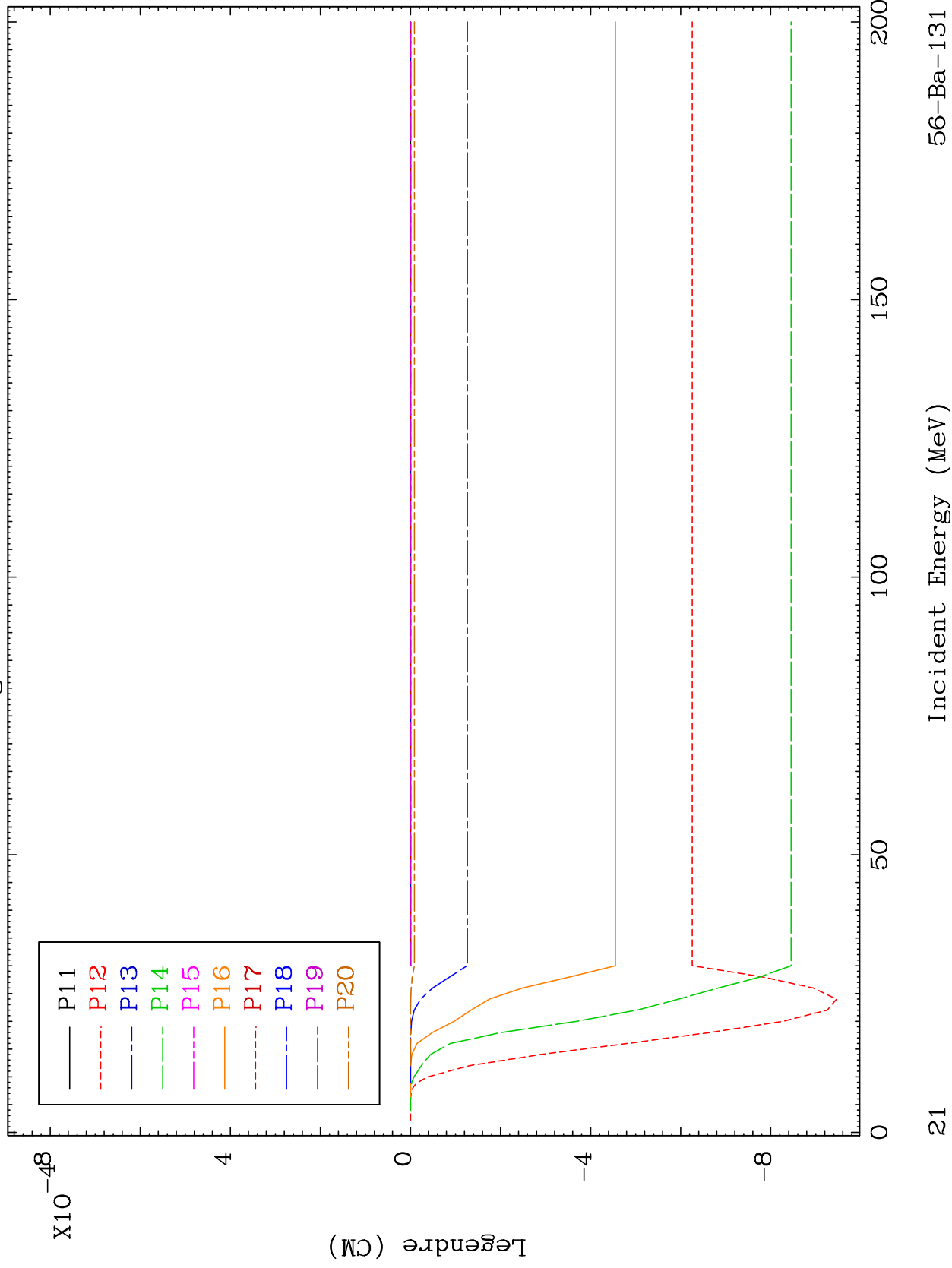
19



MAT 5628

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

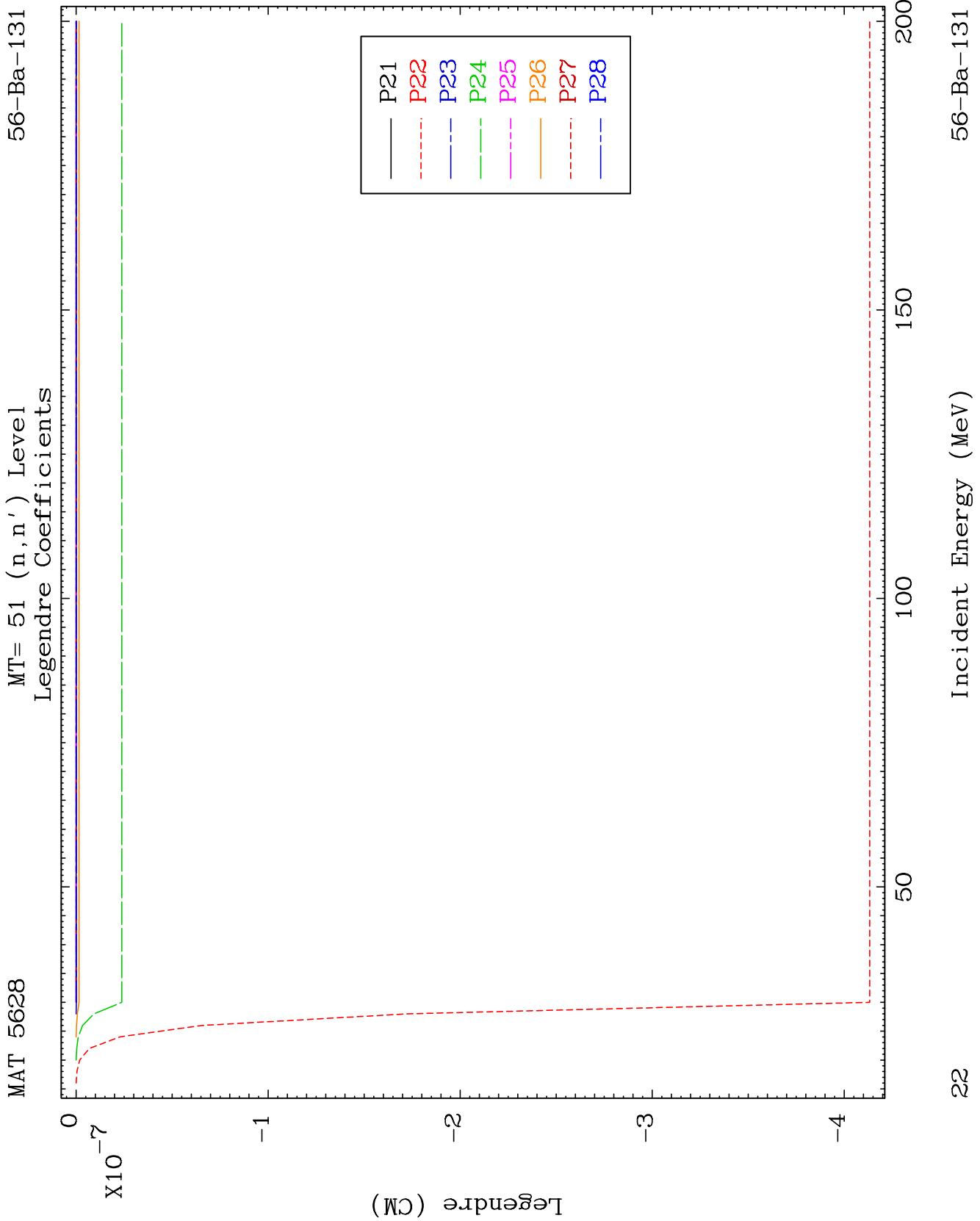
56-Ba-131



21

Incident Energy (MeV)

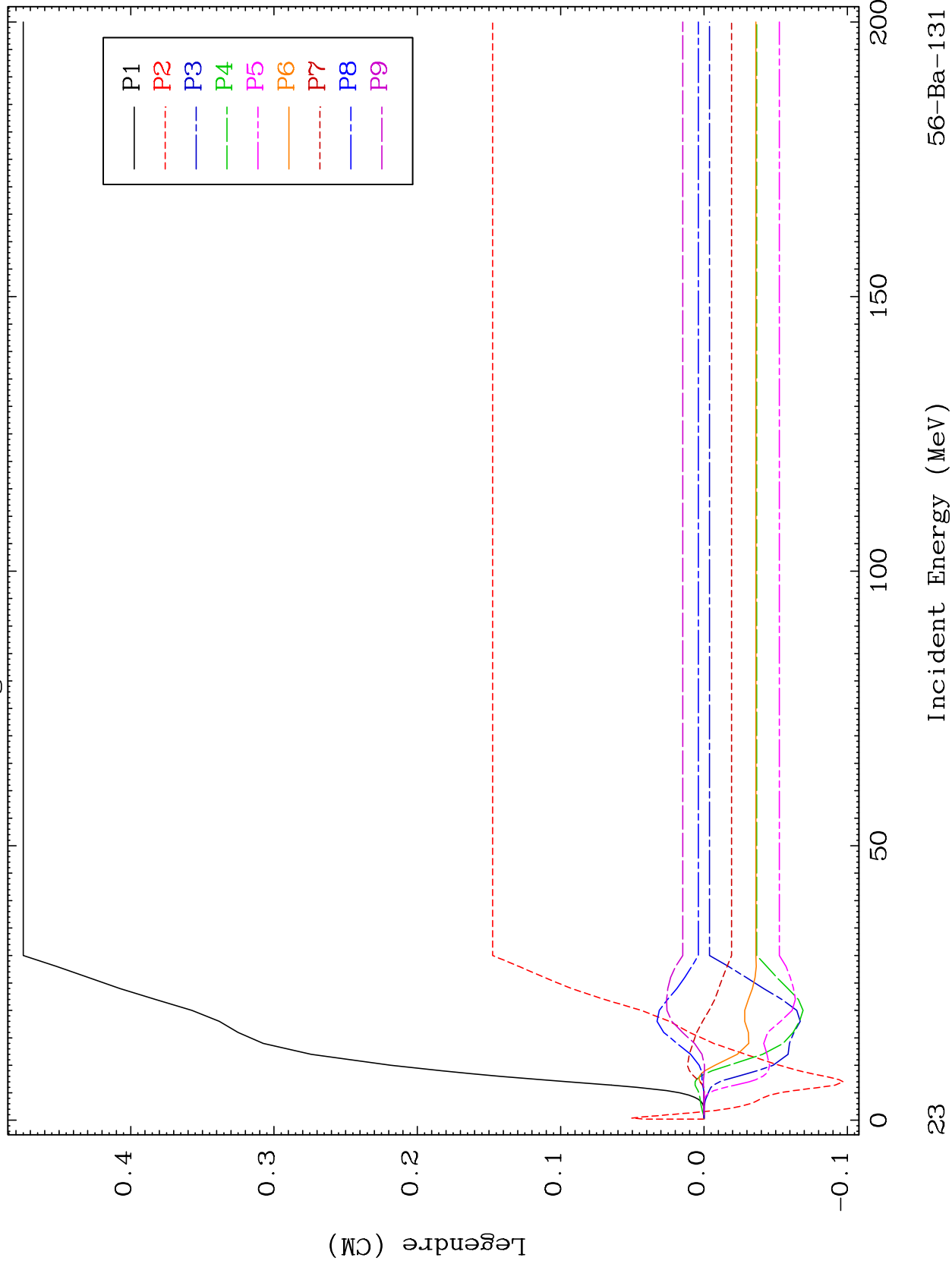
56-Ba-131



MAT 5628

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

56-Ba-131



56-Ba-131

Incident Energy (MeV)

23

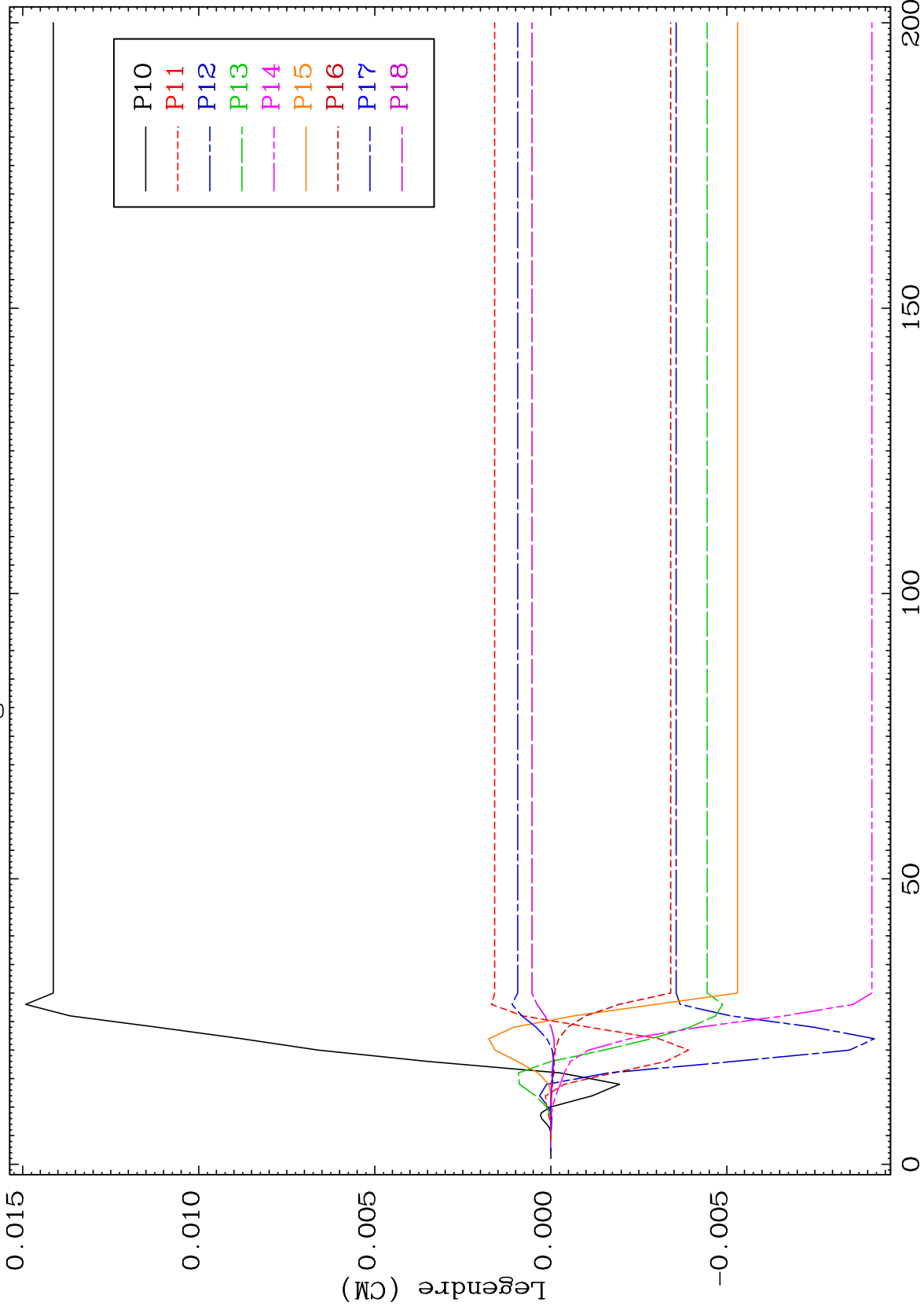


MAT 5628

MT= 52 (n,n') Level

56-Ba-131

Legendre Coefficients



24

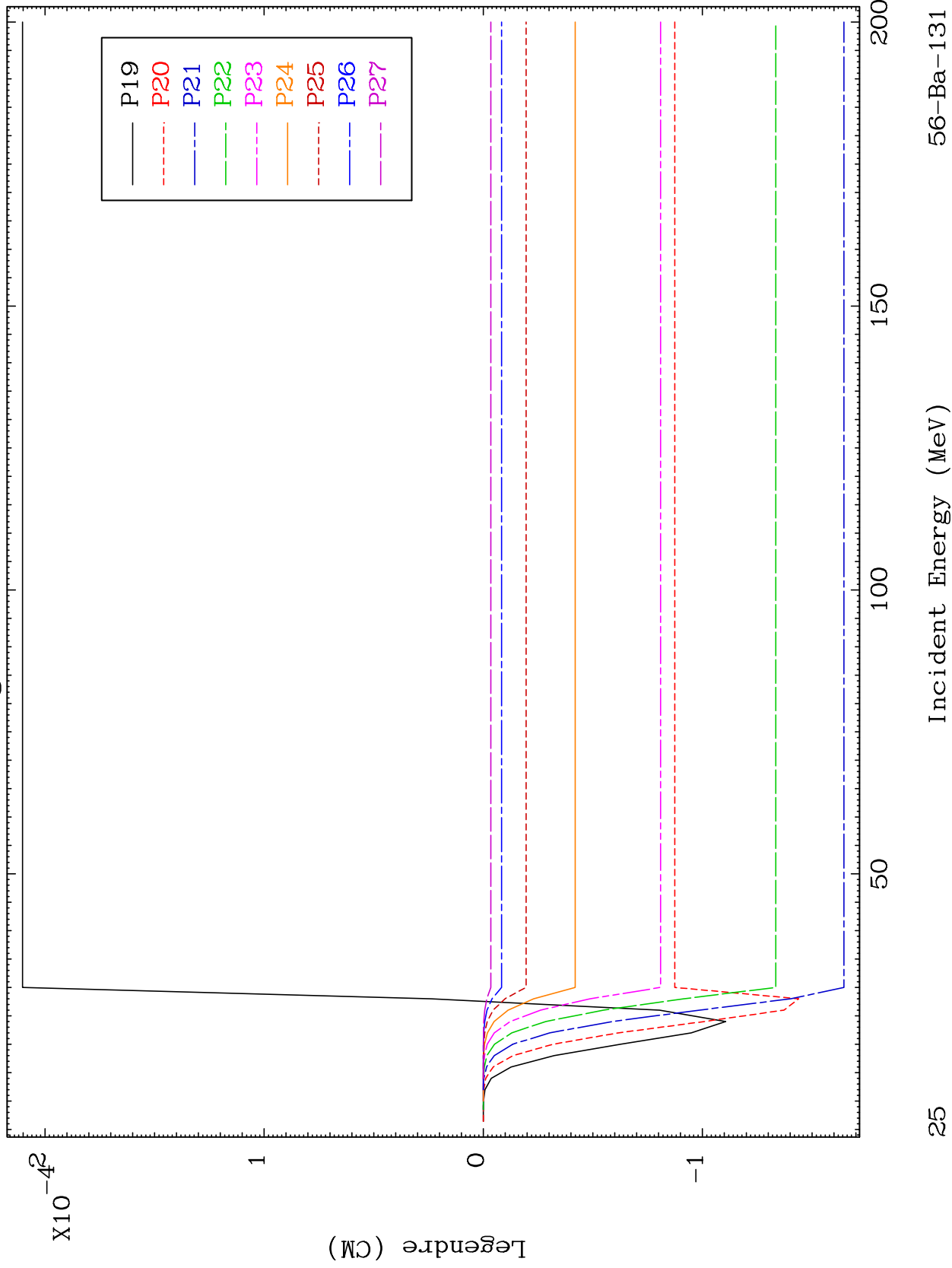
Incident Energy (MeV)

56-Ba-131

MAT 5628

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

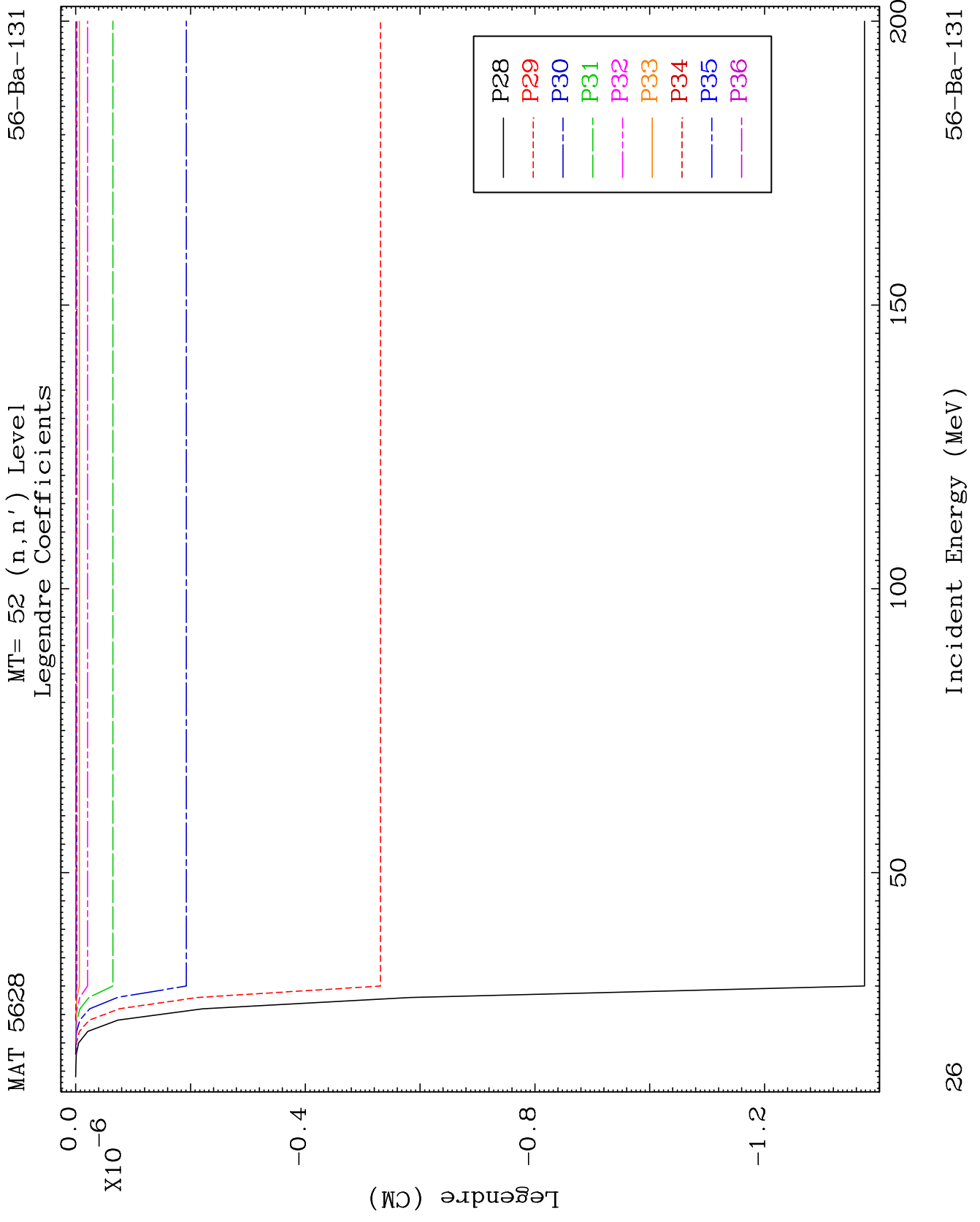
56-Ba-131

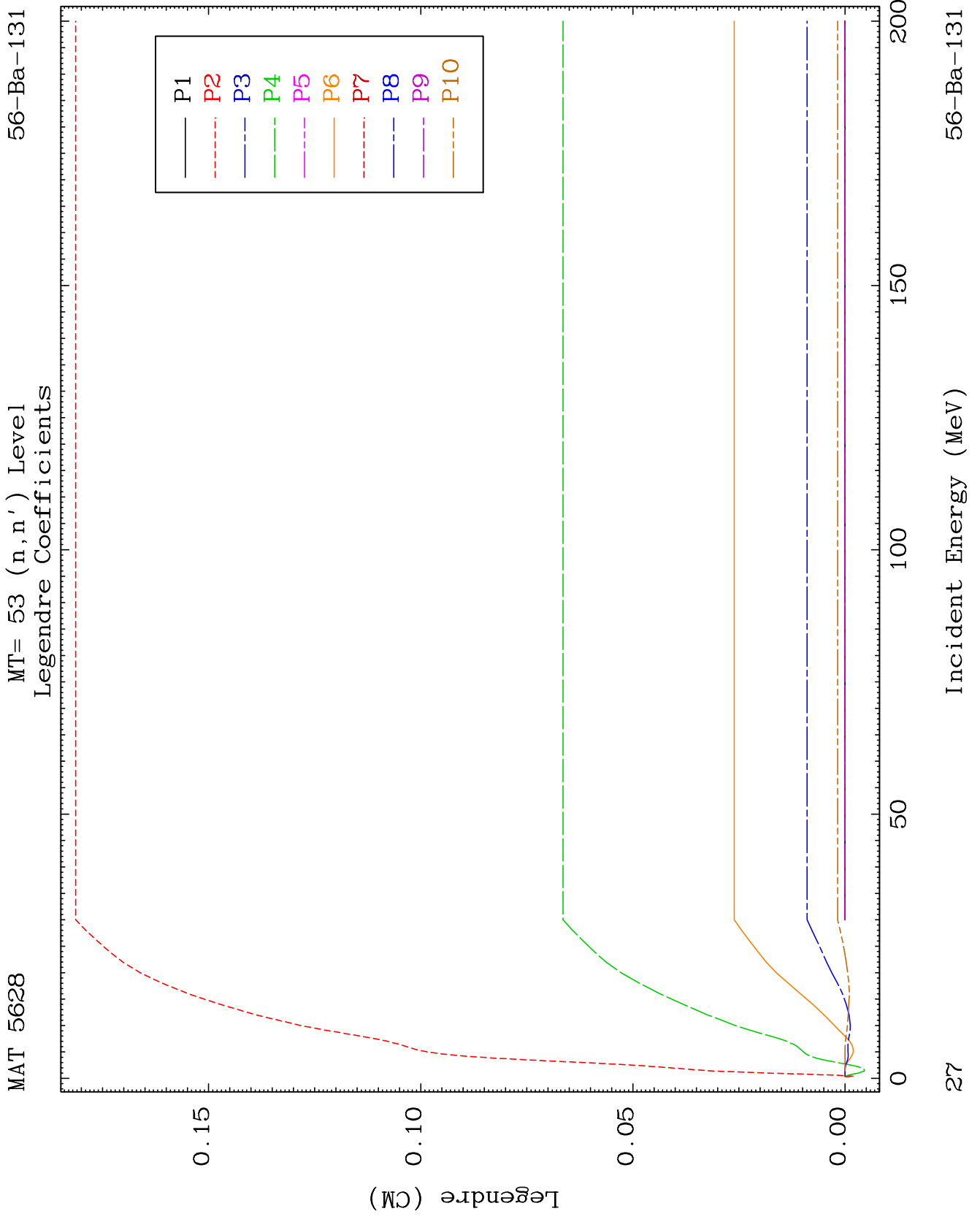


25

Incident Energy (MeV)

56-Ba-131





56-Ba-131

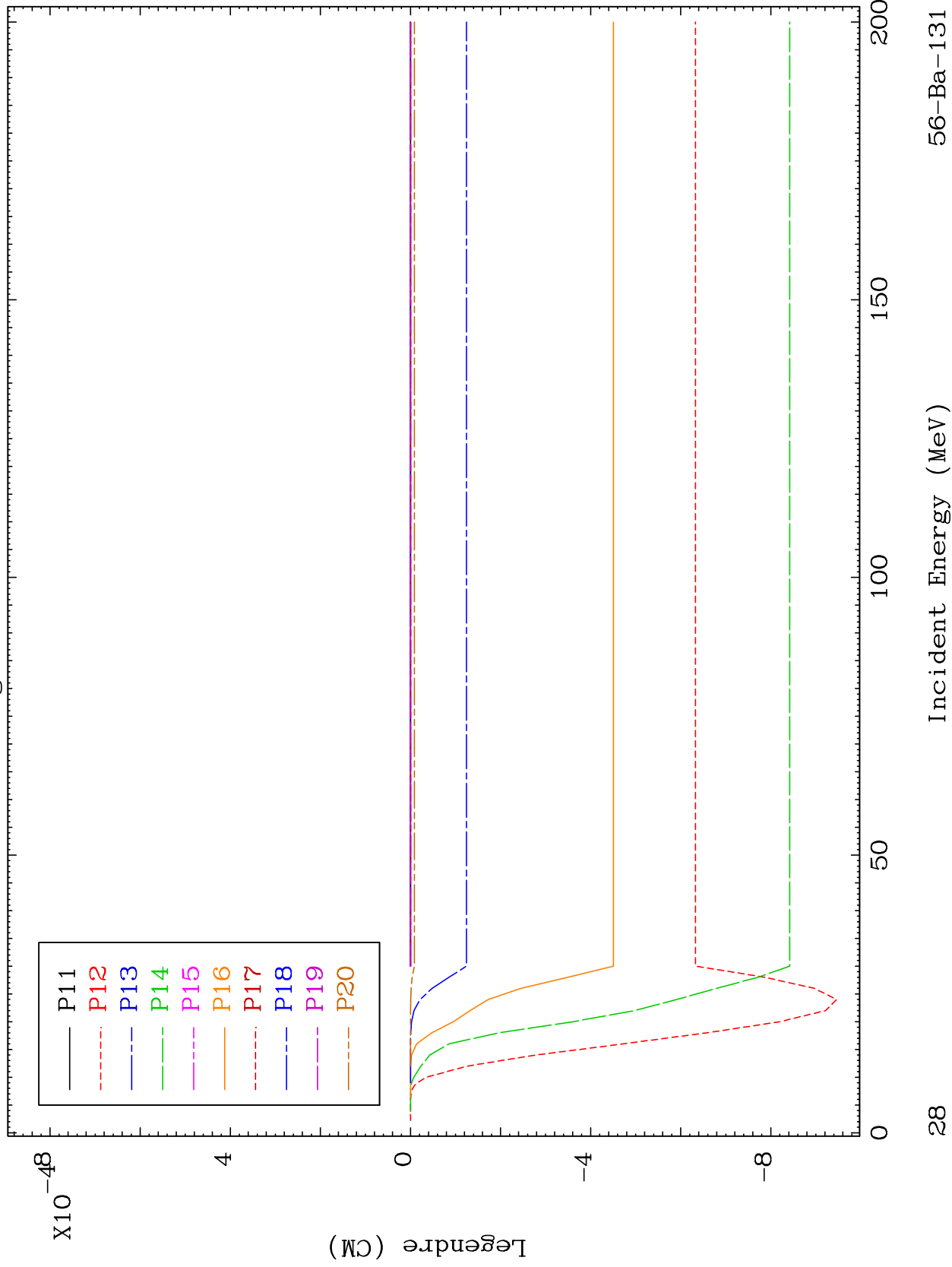
Incident Energy (MeV)

27

MAT 5628

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

56-Ba-131



56-Ba-131

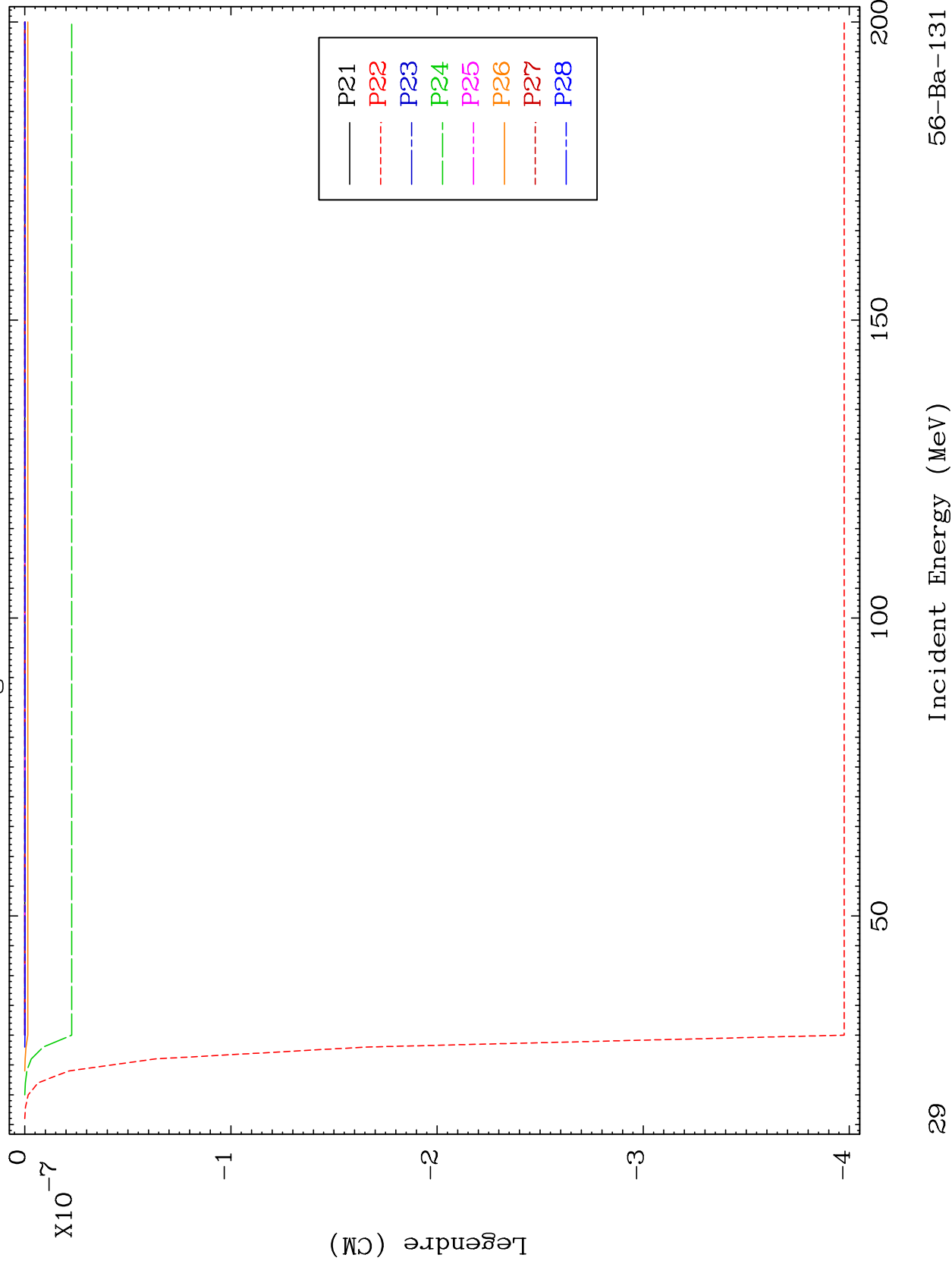
Incident Energy (MeV)

28

MAT 5628

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

56-Ba-131



29

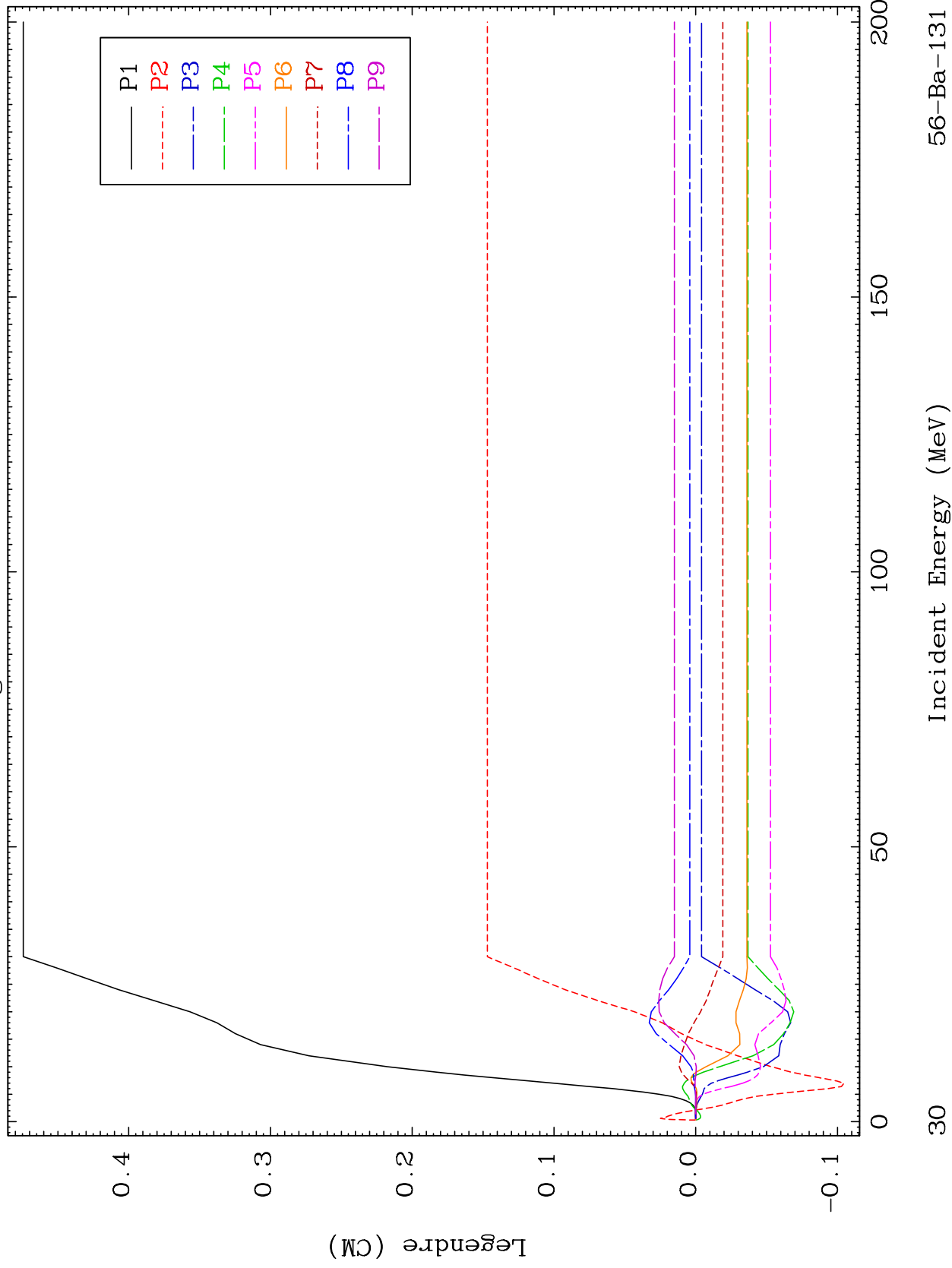
Incident Energy (MeV)

56-Ba-131

MAT 5628

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

56-Ba-131

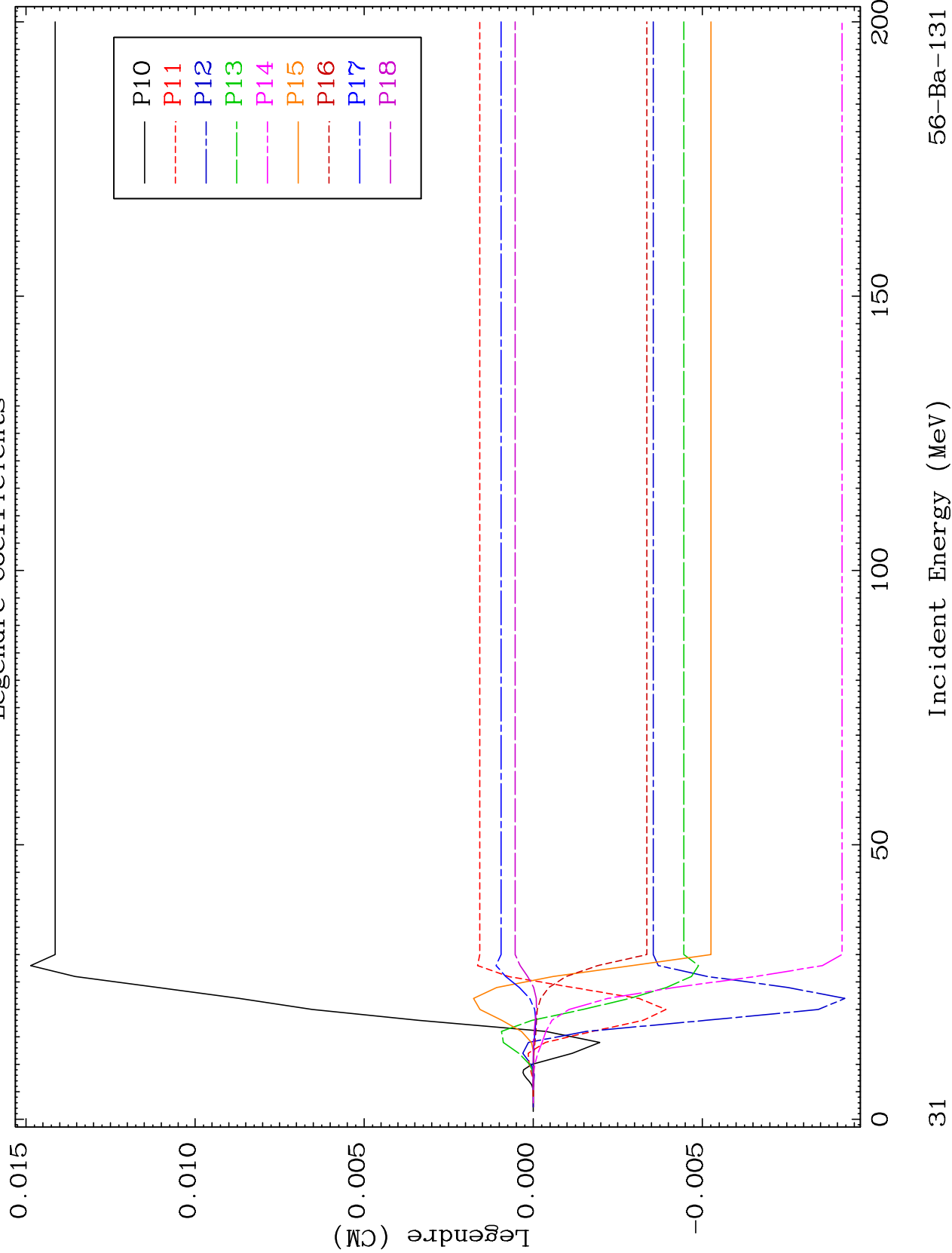


56-Ba-131

MAT 5628

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

56-Ba-131



31

Incident Energy (MeV)

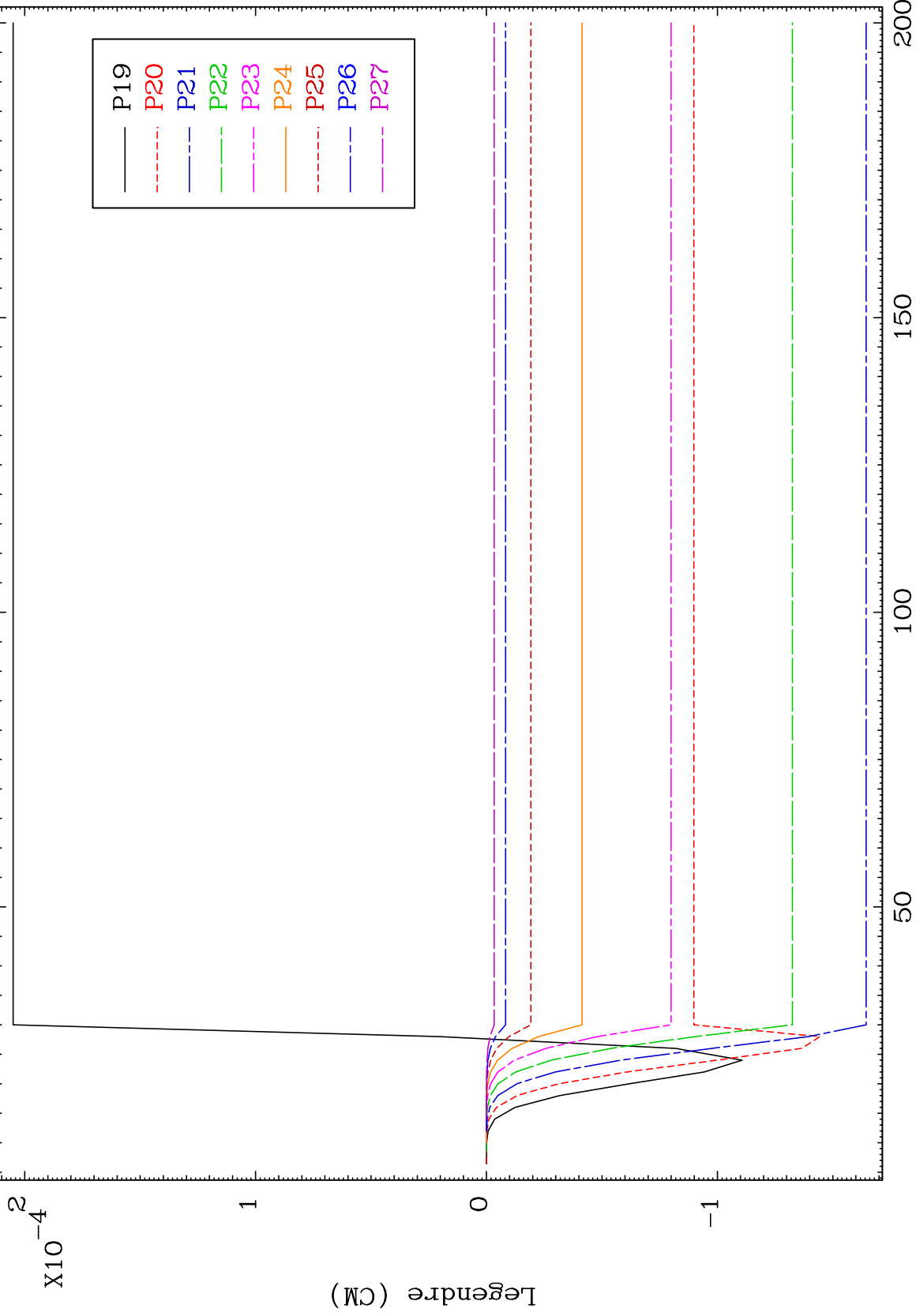
56-Ba-131



MAT 5628

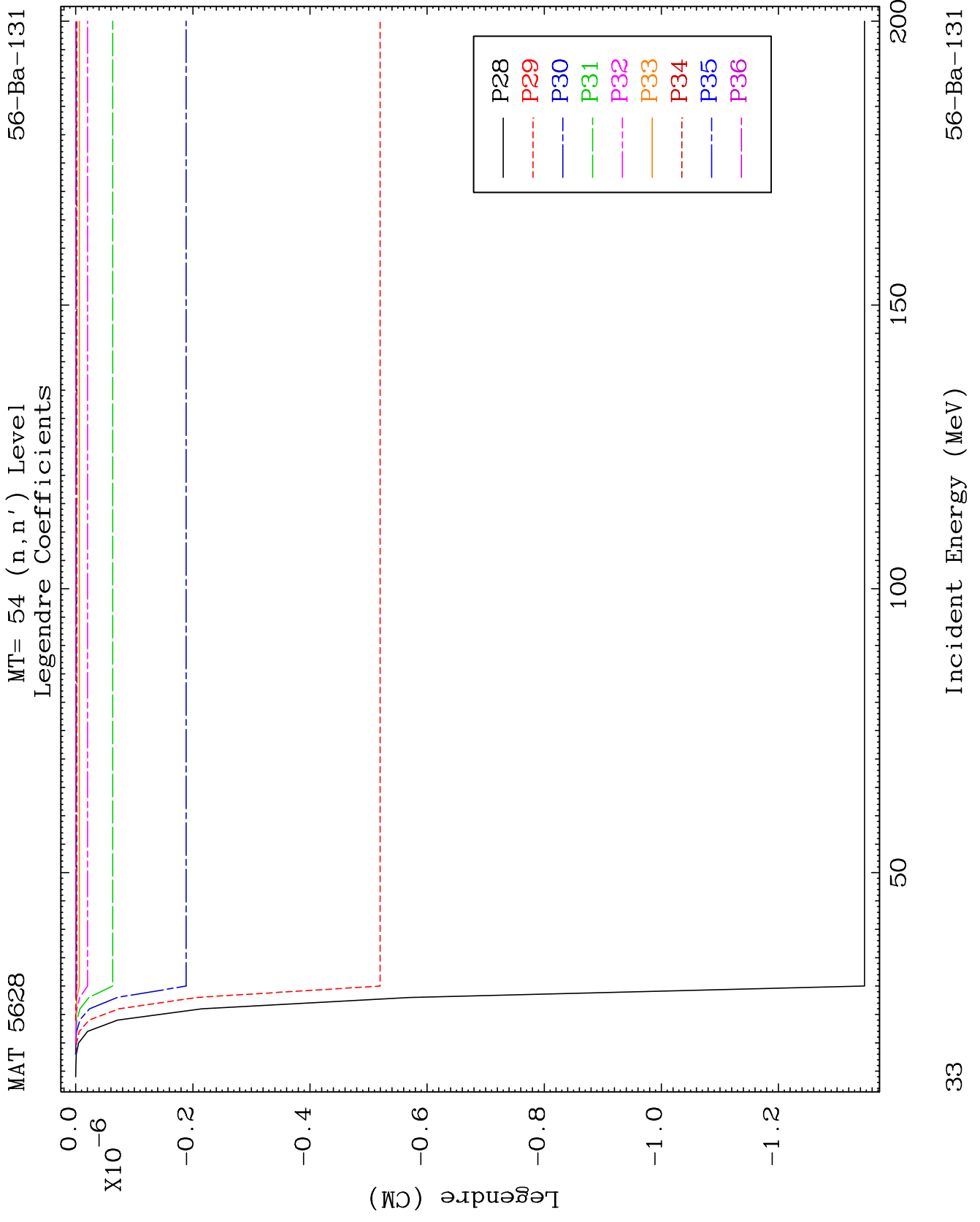
MT= 54 (n,n') Level  
Legendre Coefficients

56-Ba-131



32

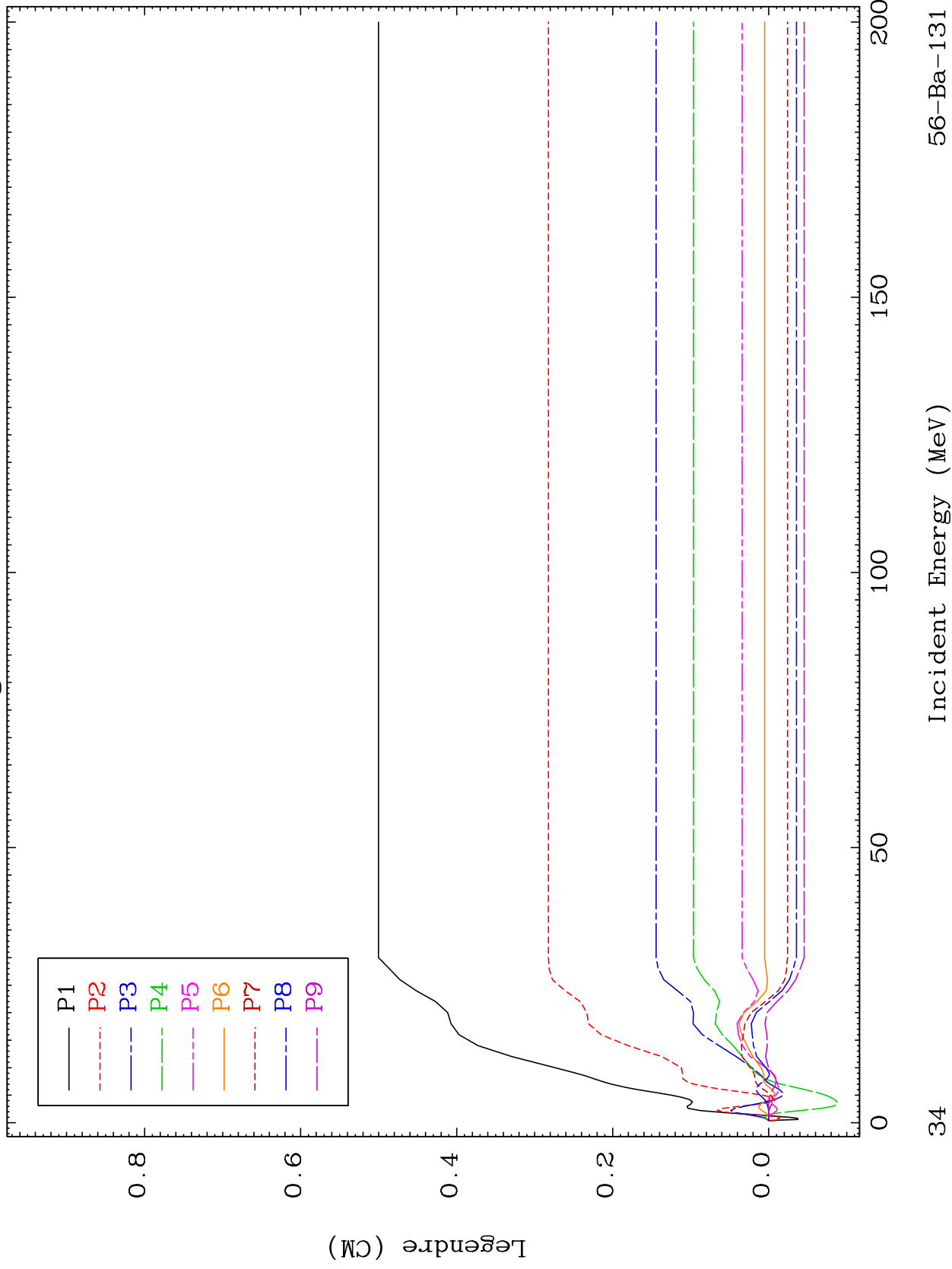
56-Ba-131



MAT 5628

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

56-Ba-131



56-Ba-131

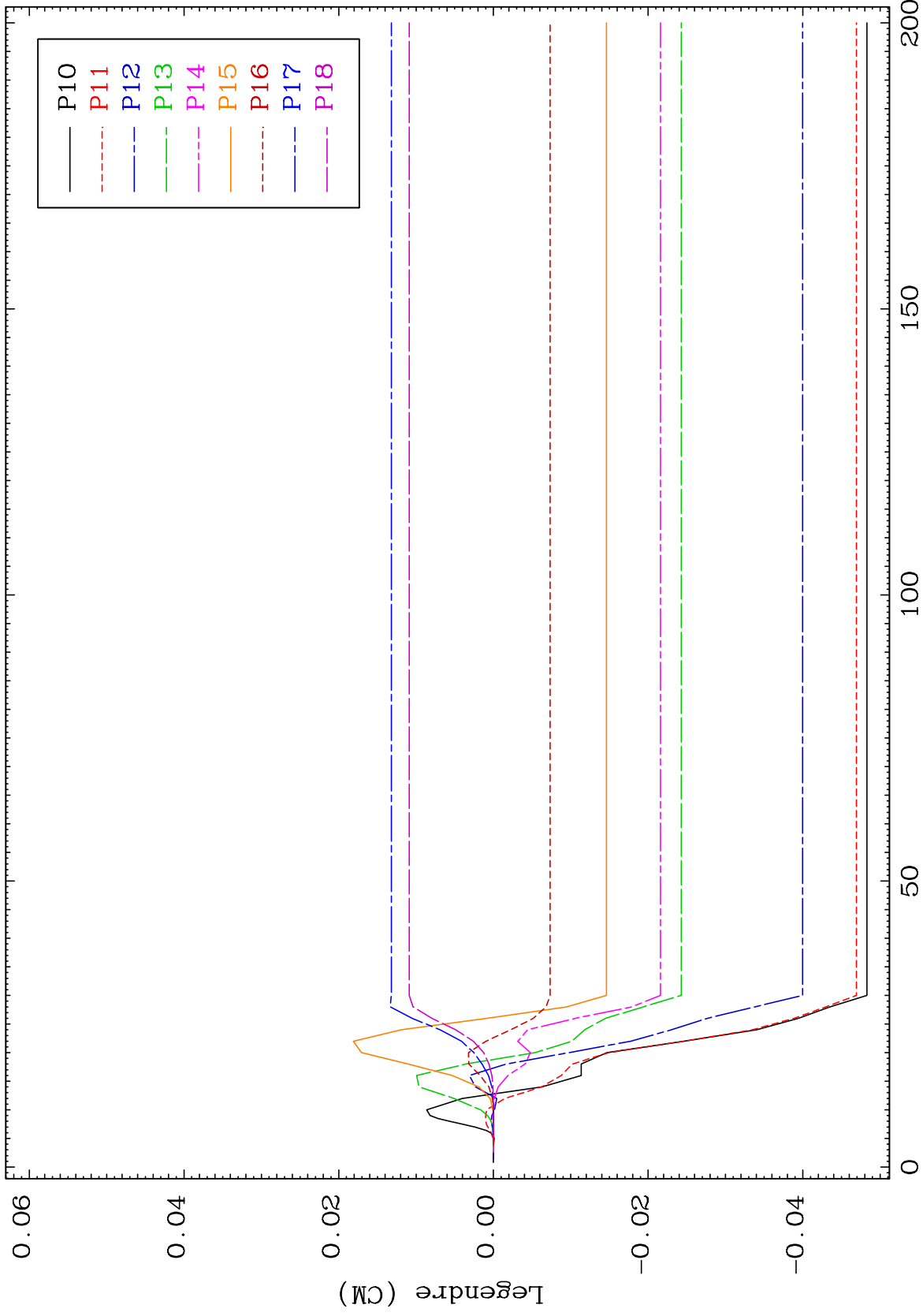
Incident Energy (MeV)

34

MAT 5628

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

56-Ba-131



35

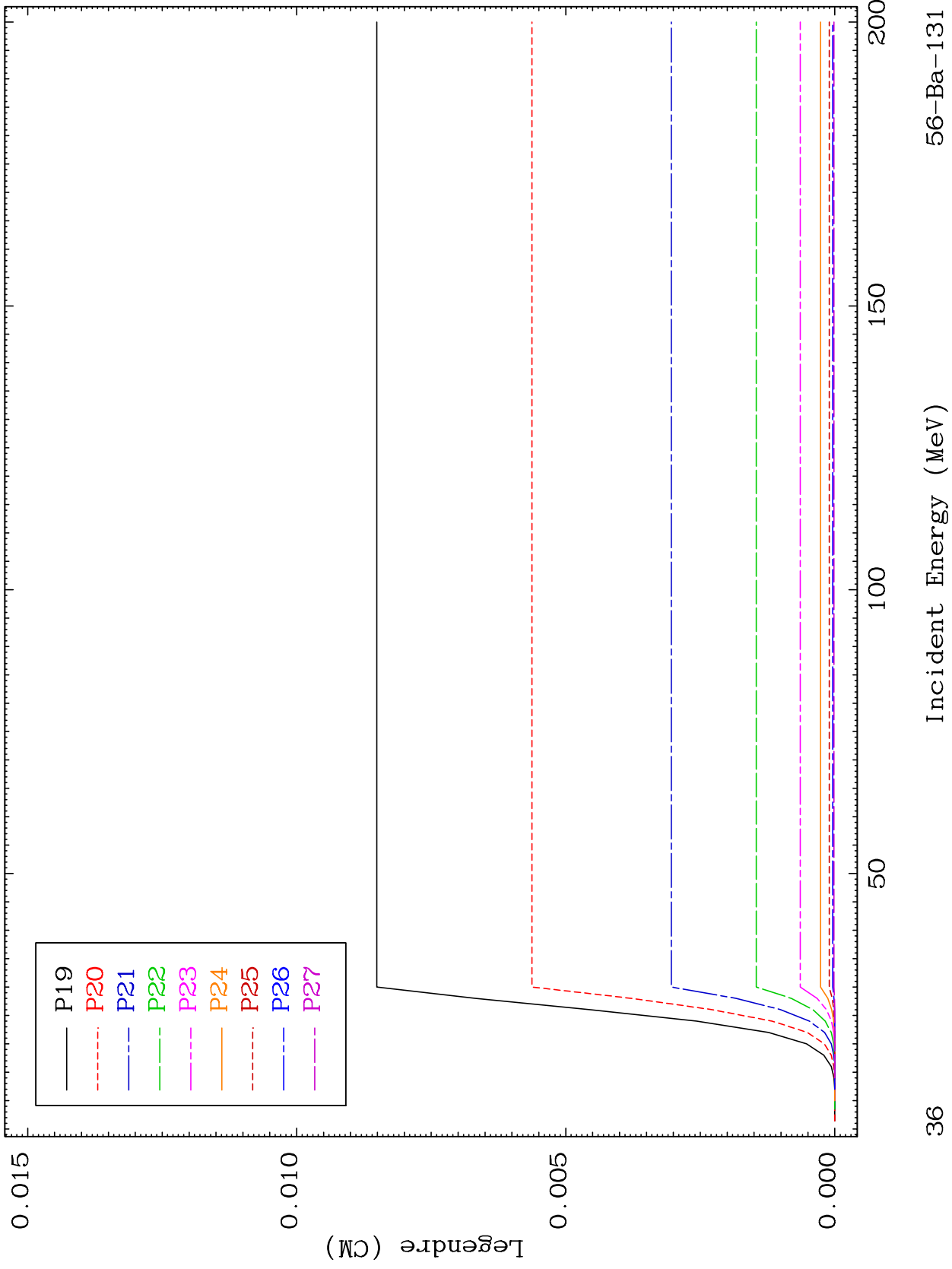
Incident Energy (MeV)

56-Ba-131

MAT 5628

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

56-Ba-131



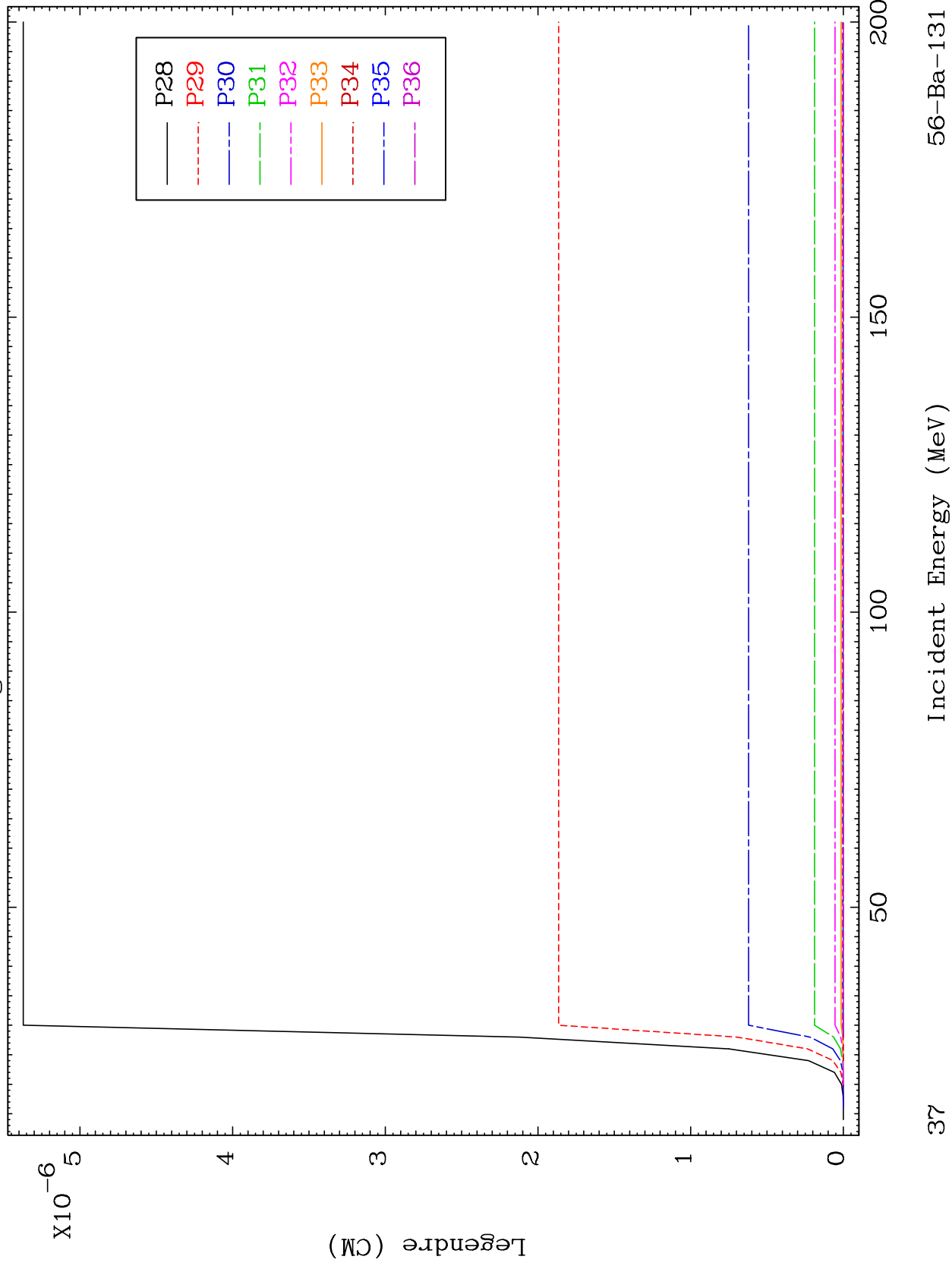
36

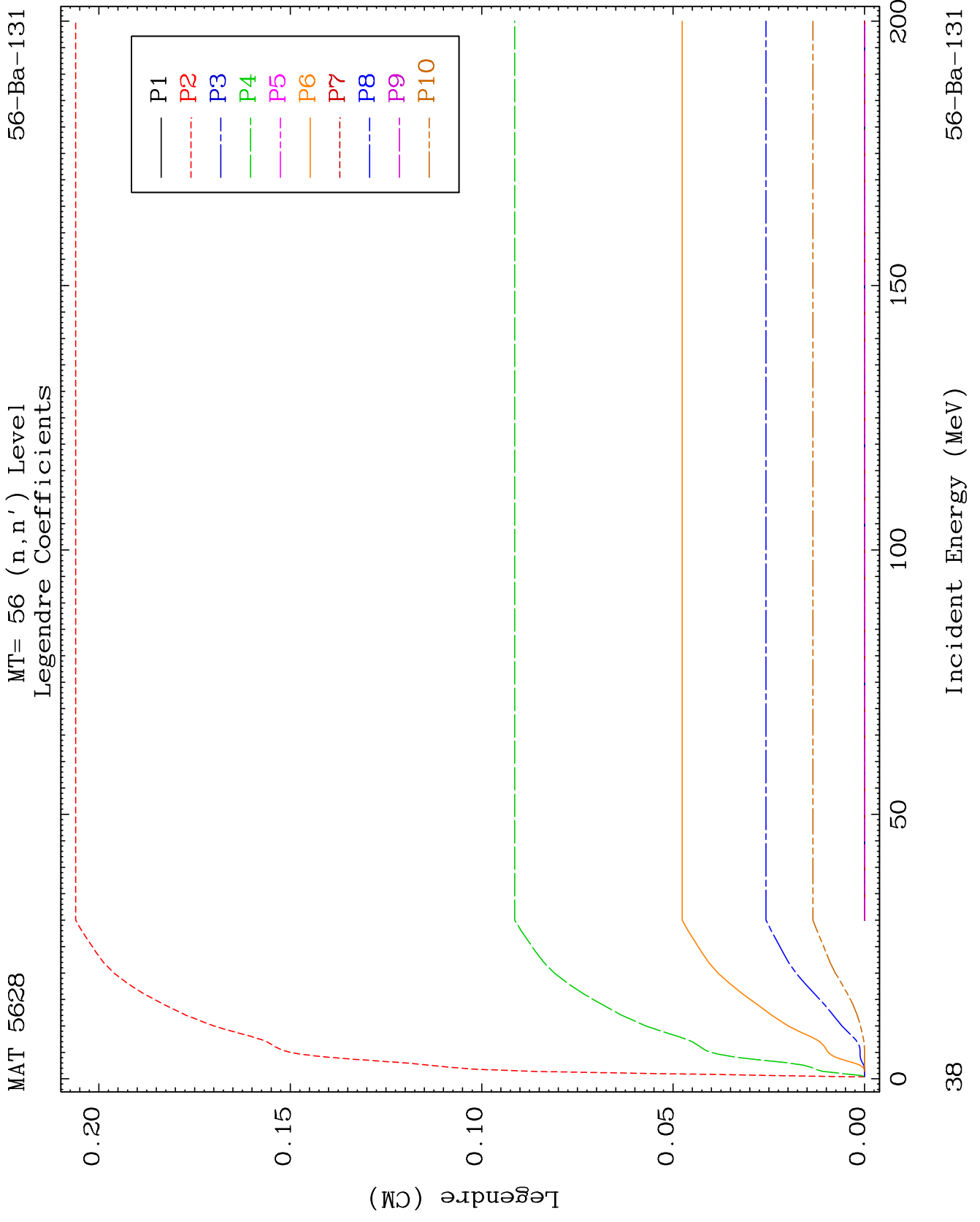
56-Ba-131

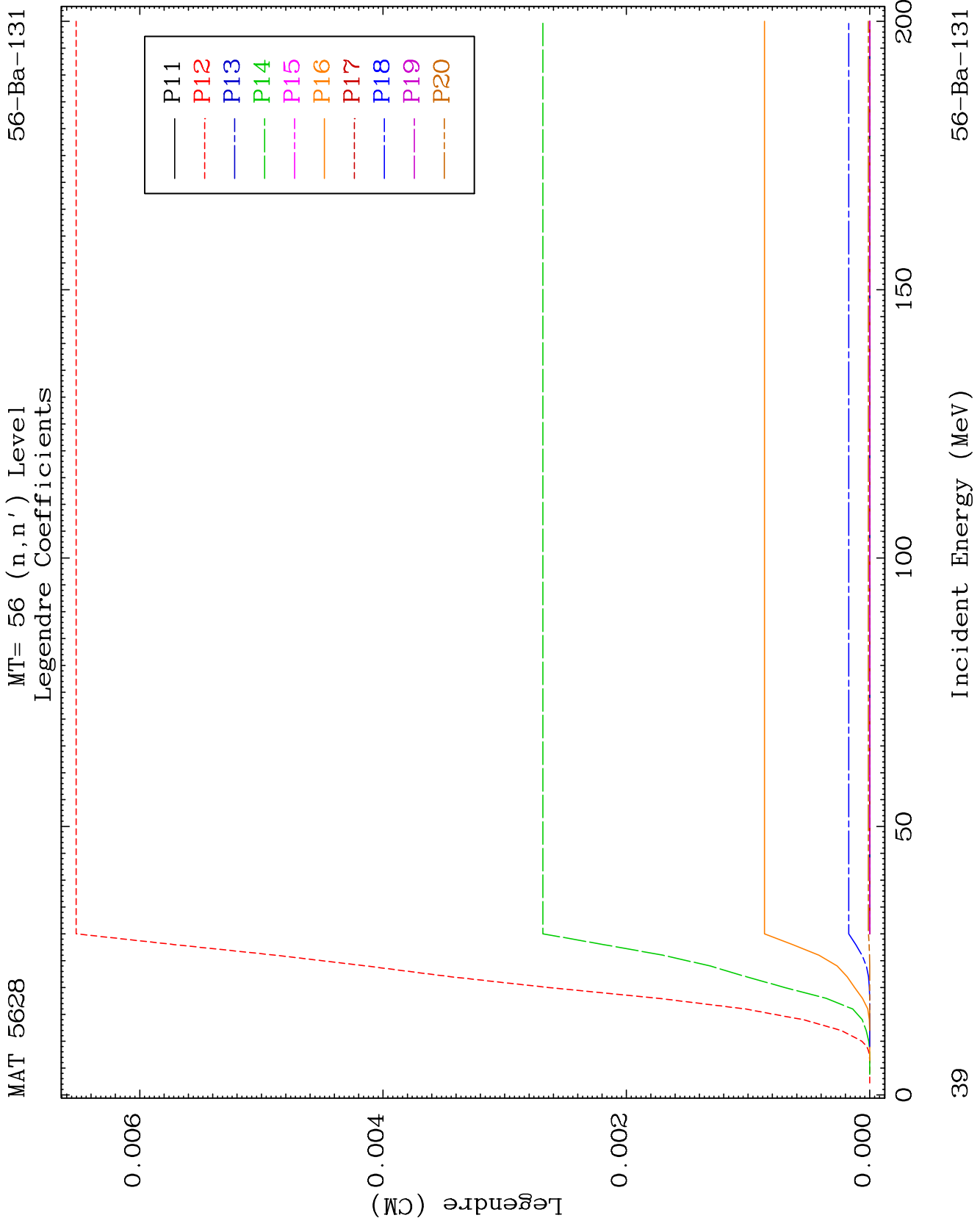
MAT 5628

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

56-Ba-131





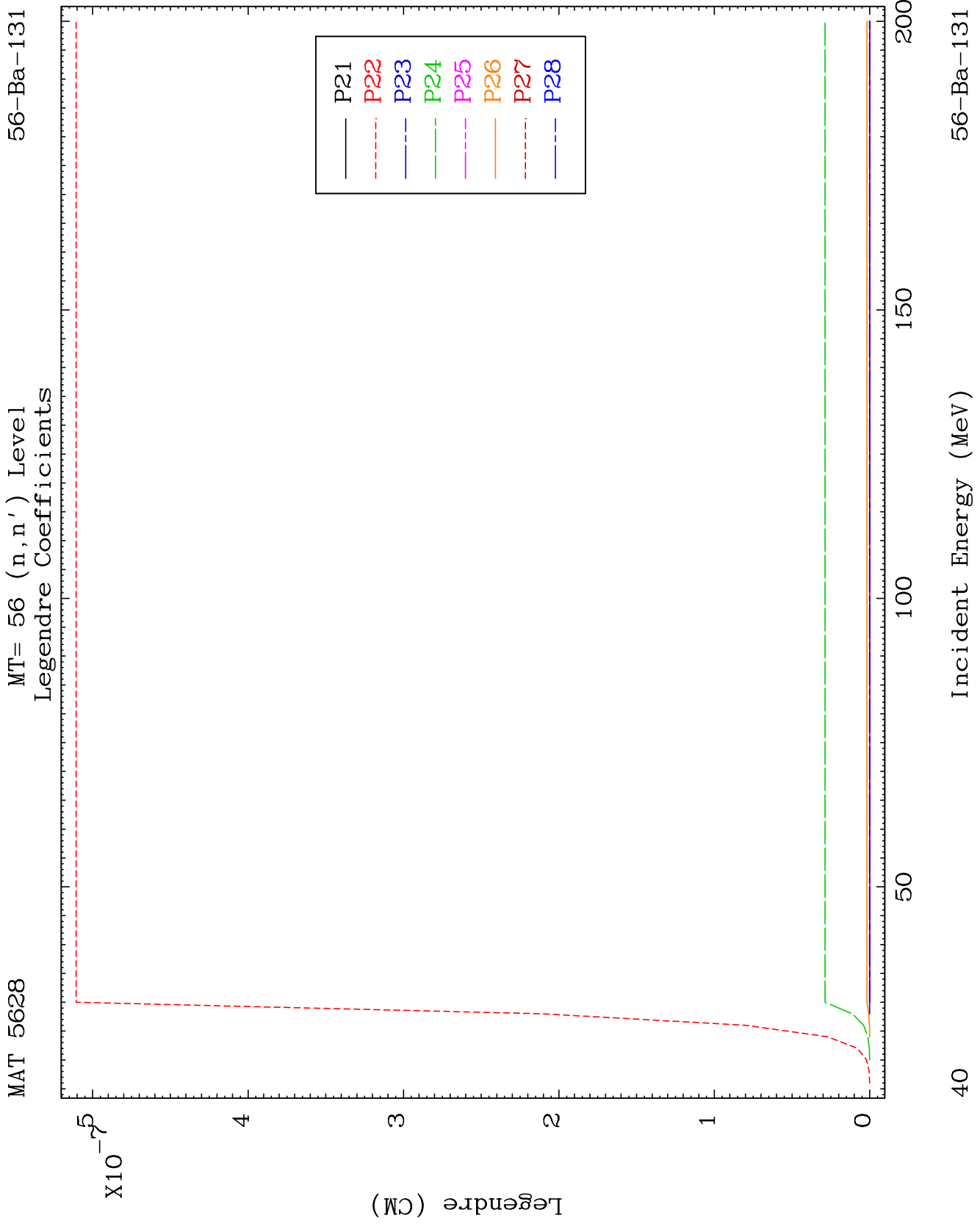


56-Ba-131

Incident Energy (MeV)

39

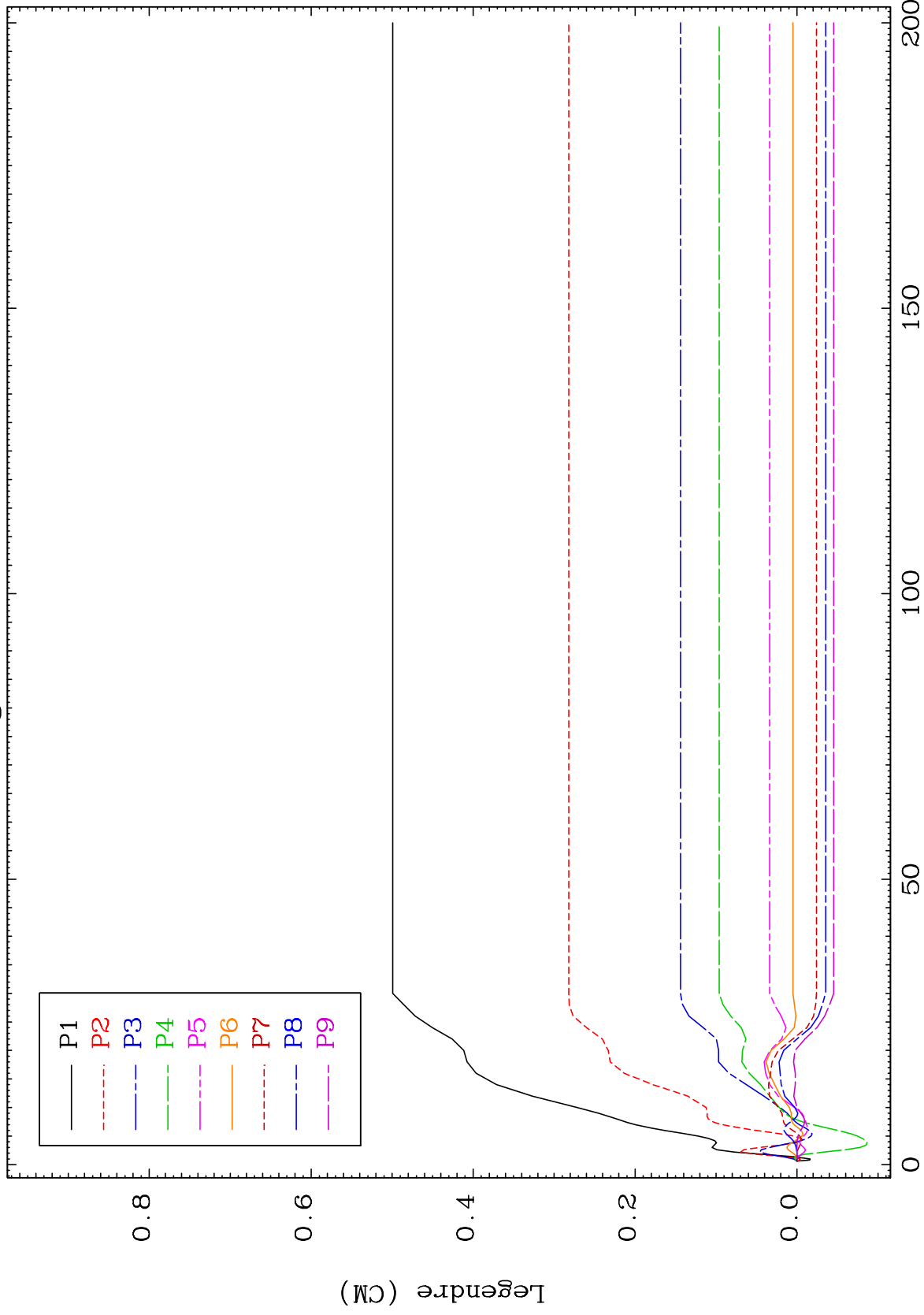




MAT 5628

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

56-Ba-131



41

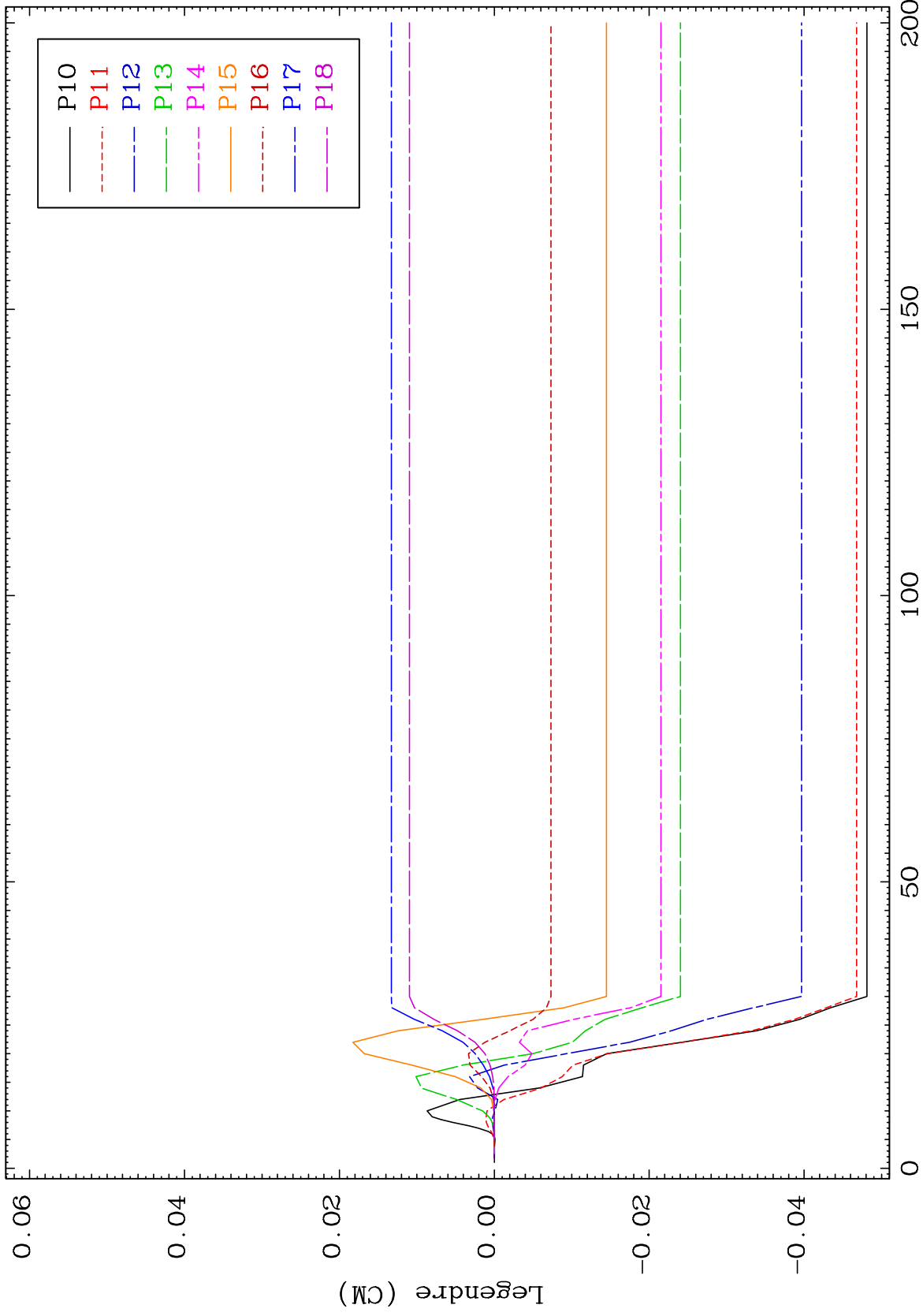
Incident Energy (MeV)

56-Ba-131

MAT 5628

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

56-Ba-131



42

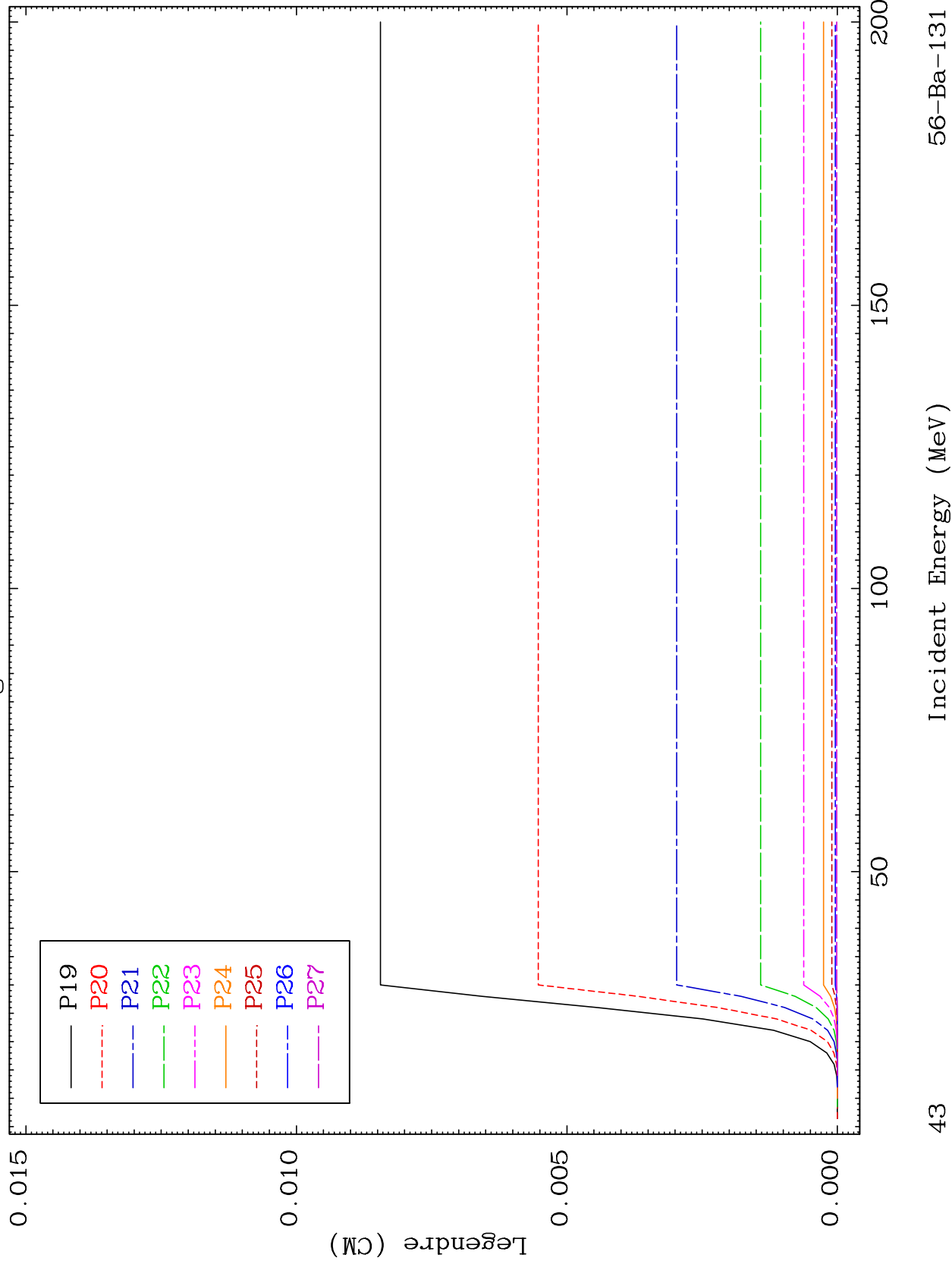
Incident Energy (MeV)

56-Ba-131

MAT 5628

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

56-Ba-131



43

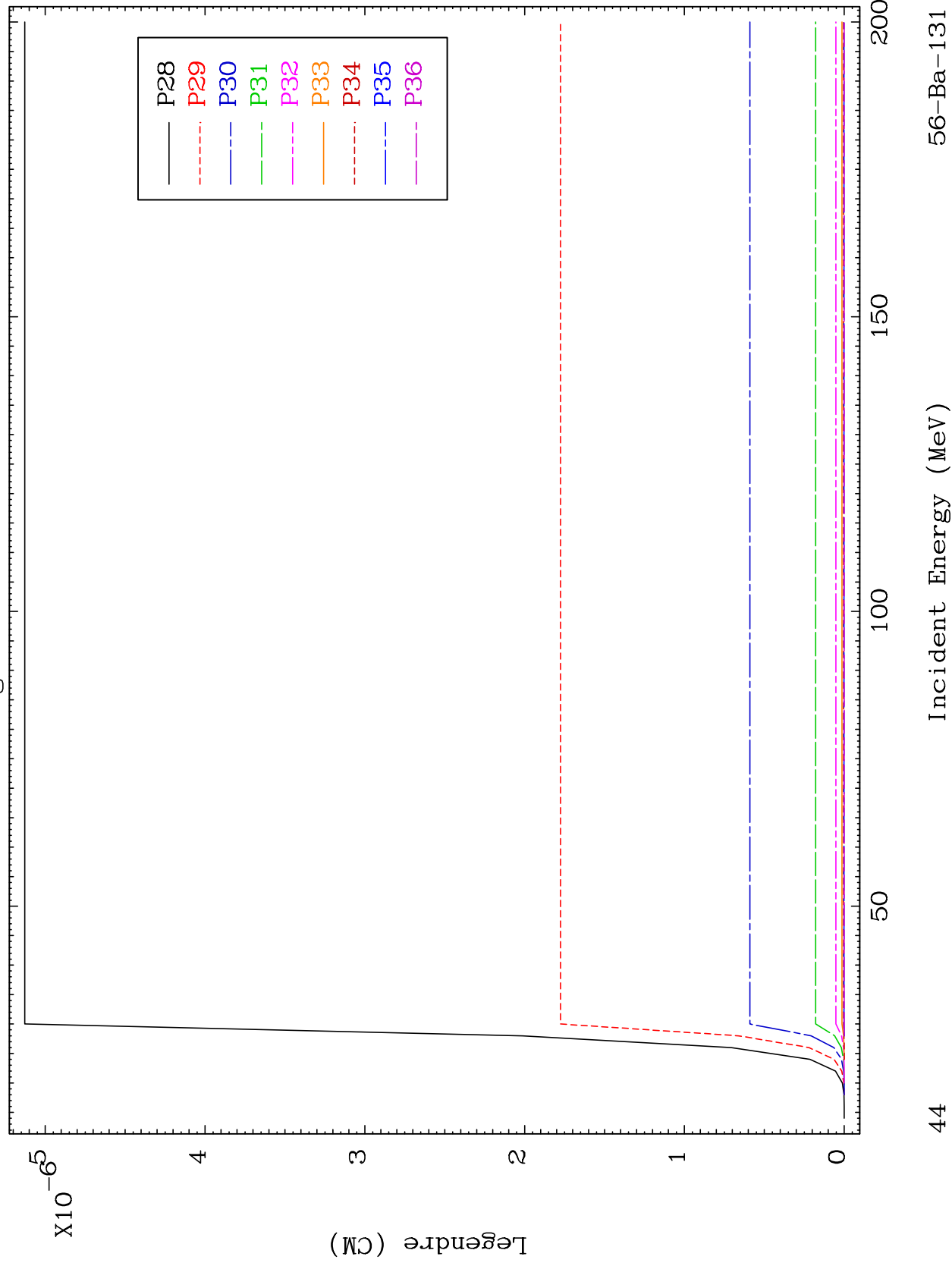
56-Ba-131

Incident Energy (MeV)

MAT 5628

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

56-Ba-131



44

Incident Energy (MeV)

56-Ba-131

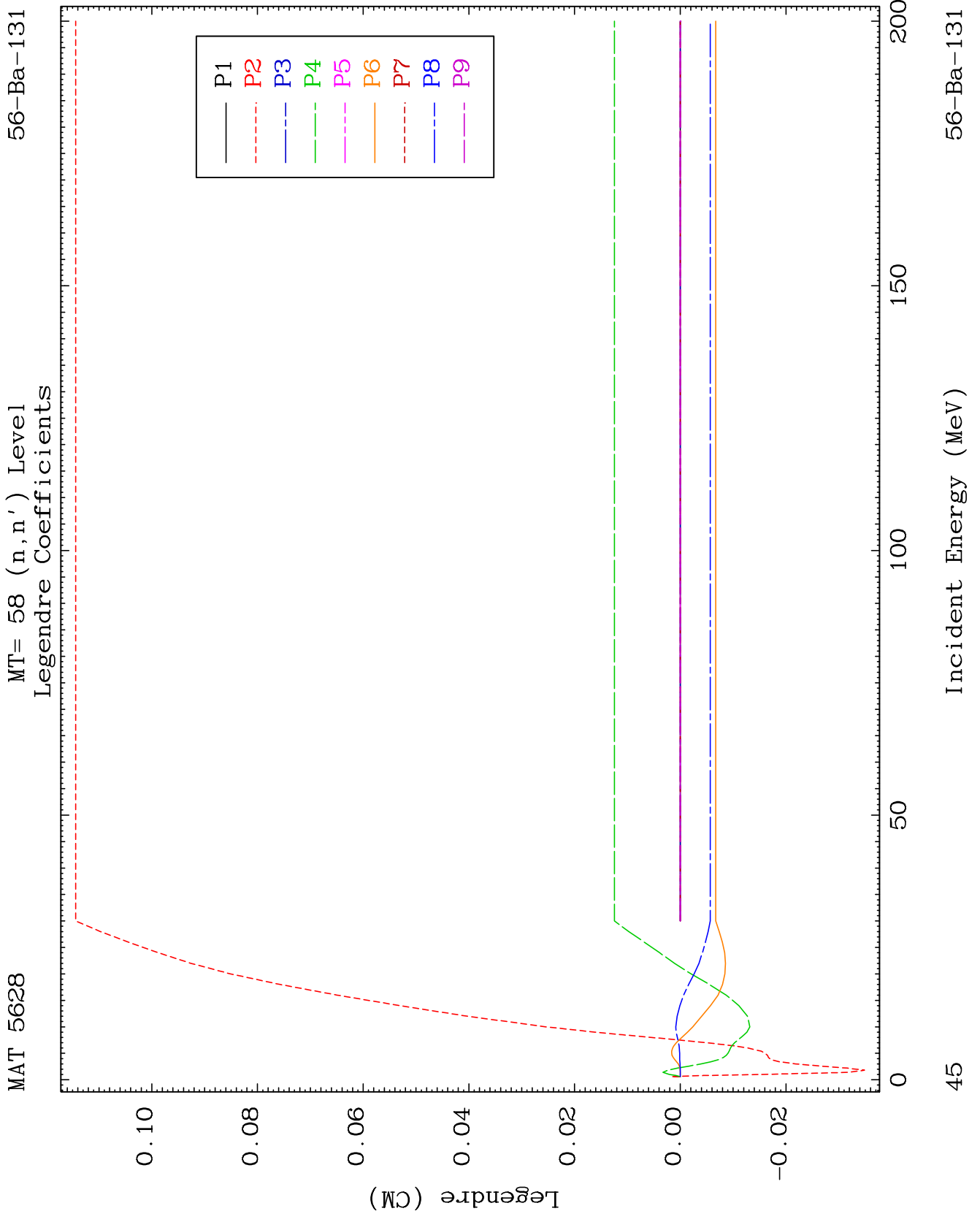
200

150

100

50

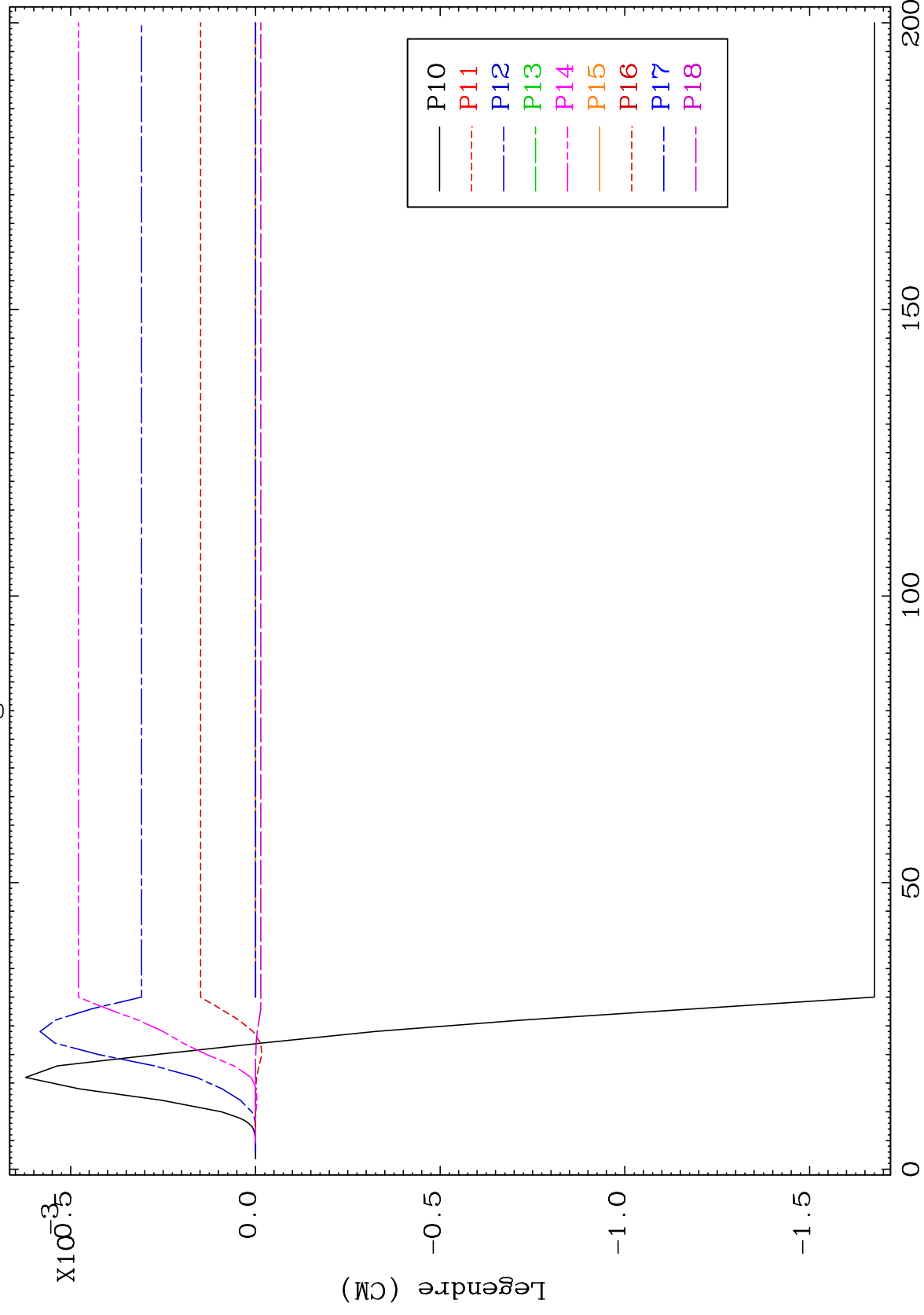
$\times 10^{-6}$



MAT 5628

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

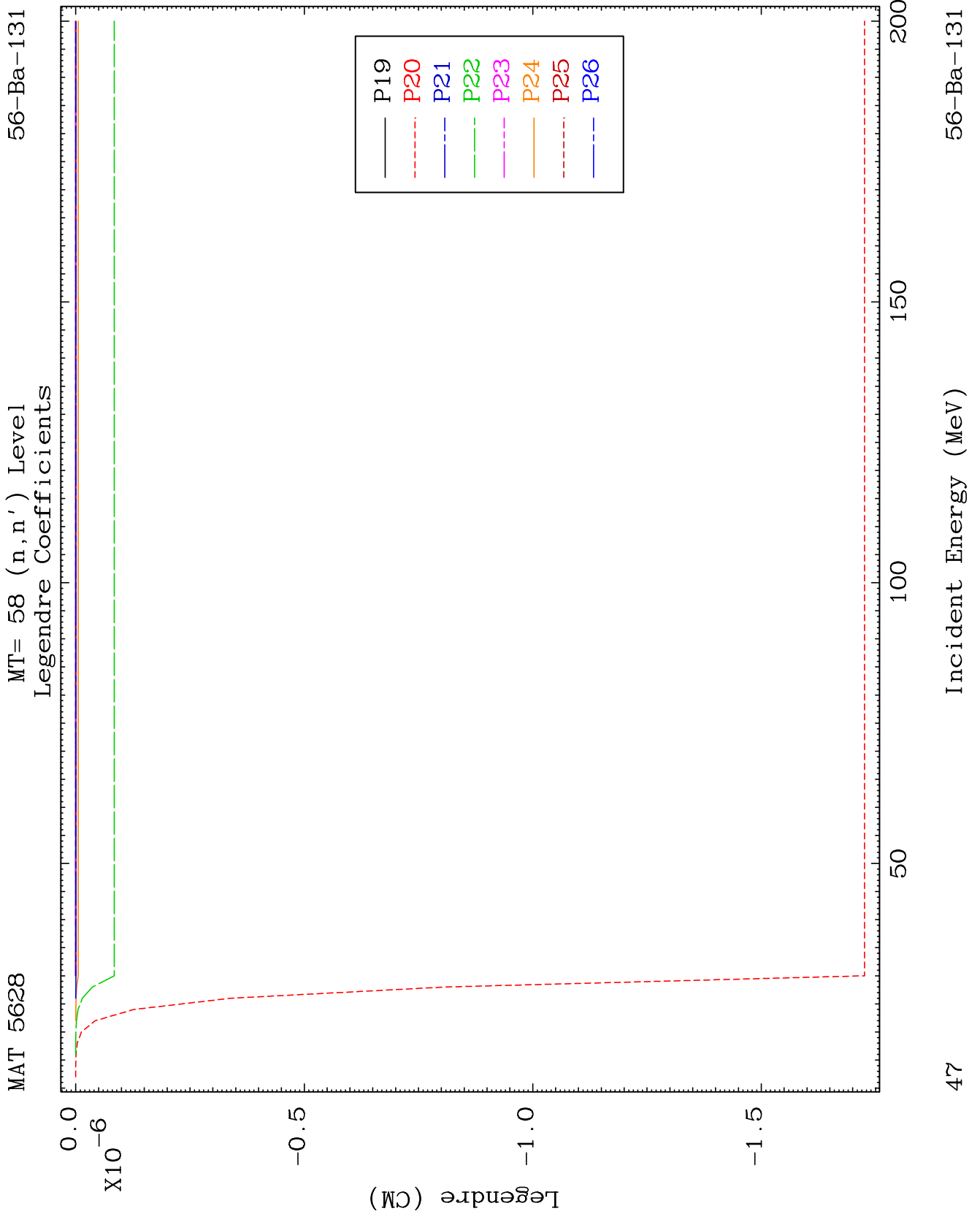
56-Ba-131



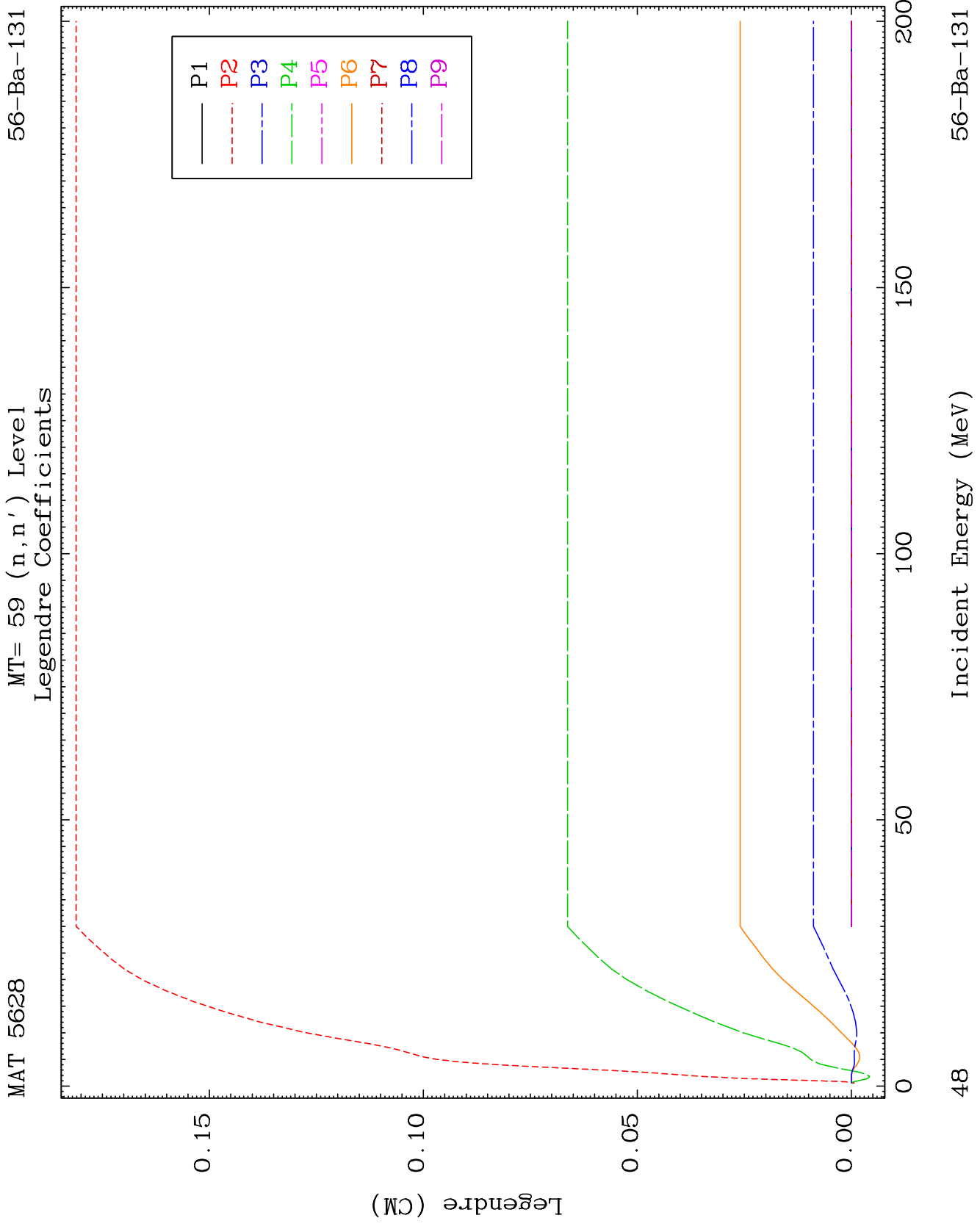
46

Incident Energy (MeV)

56-Ba-131



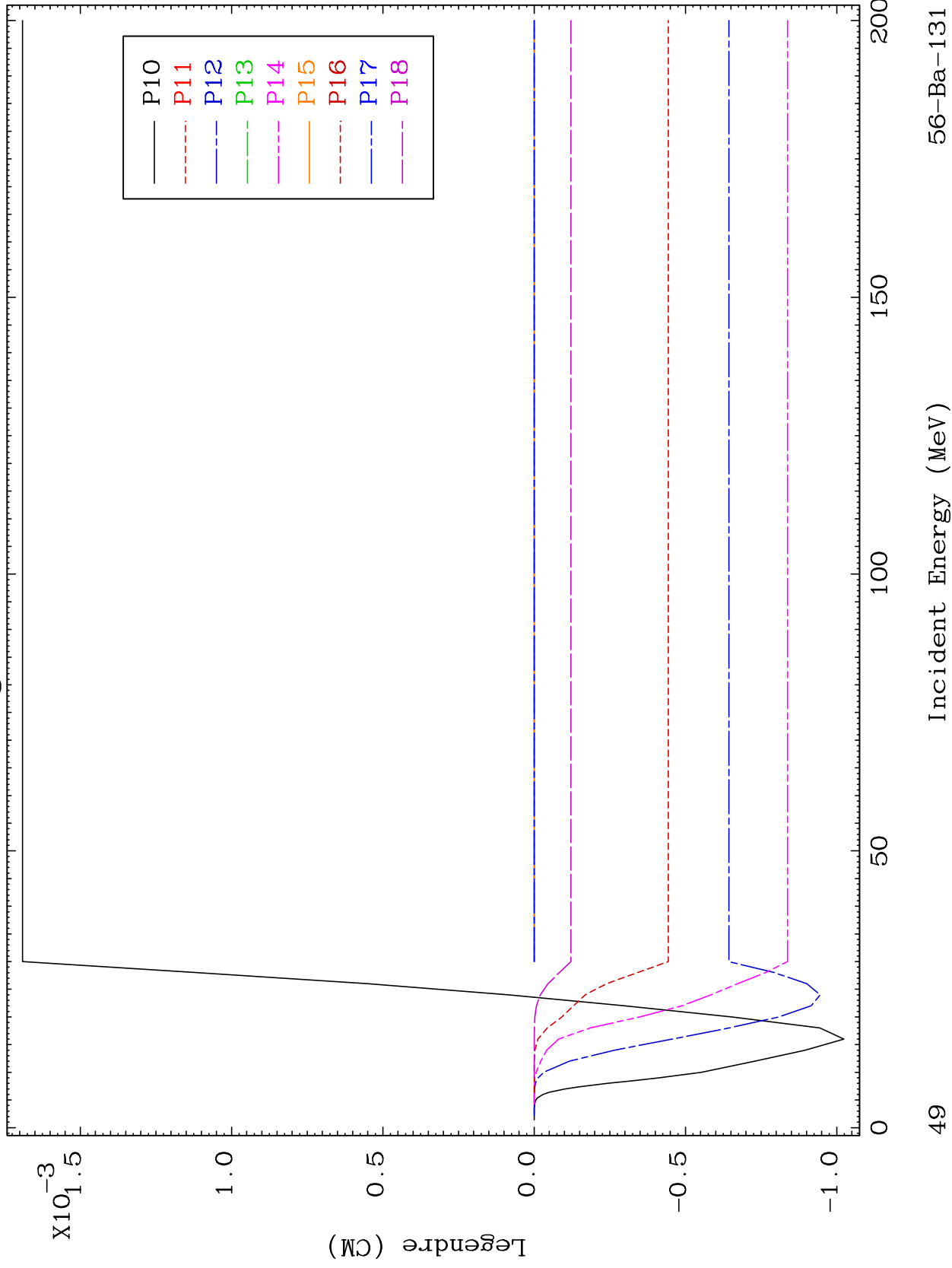




MAT 5628

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

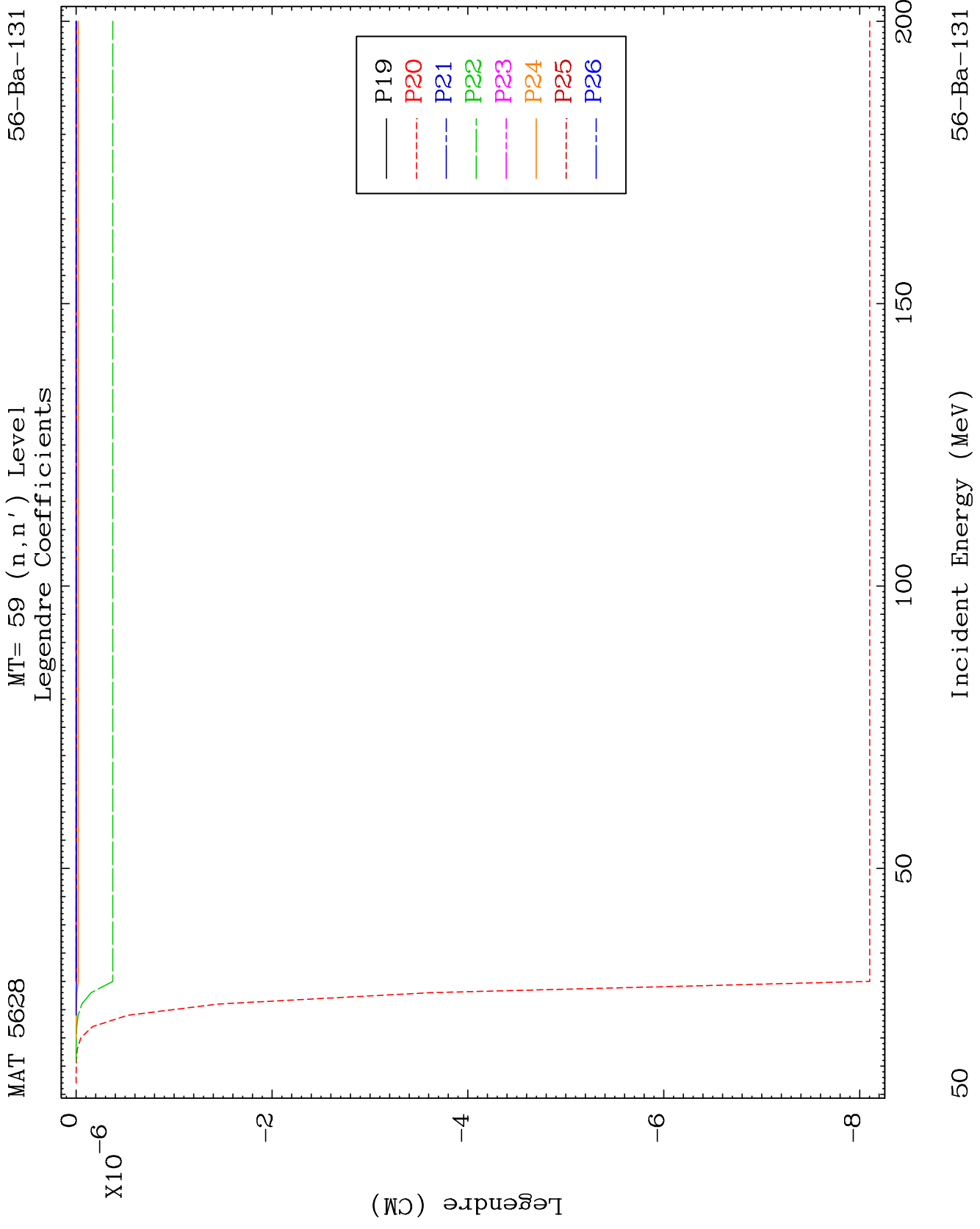
56-Ba-131



56-Ba-131

Incident Energy (MeV)

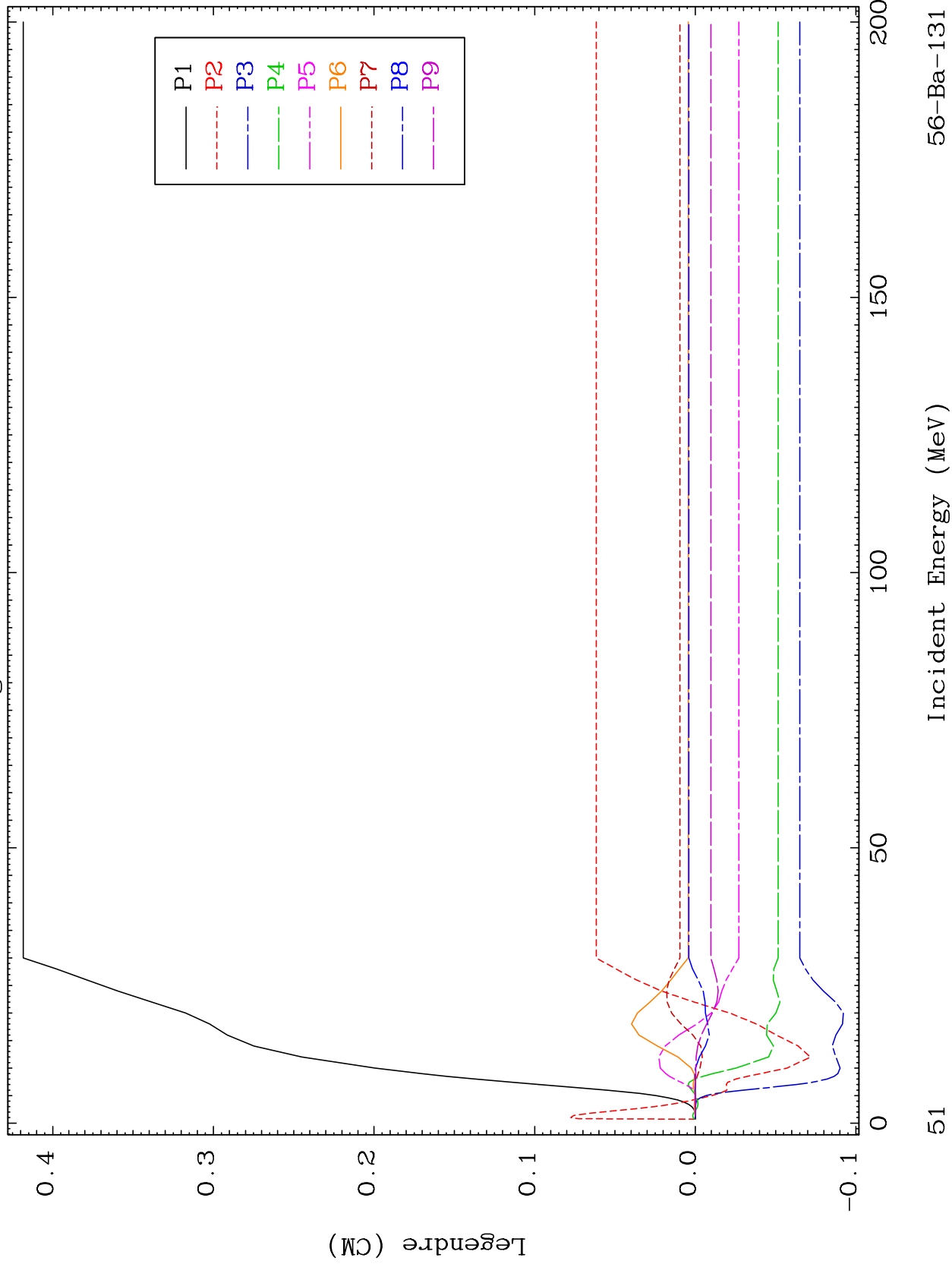
49



MAT 5628

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

56-Ba-131



56-Ba-131

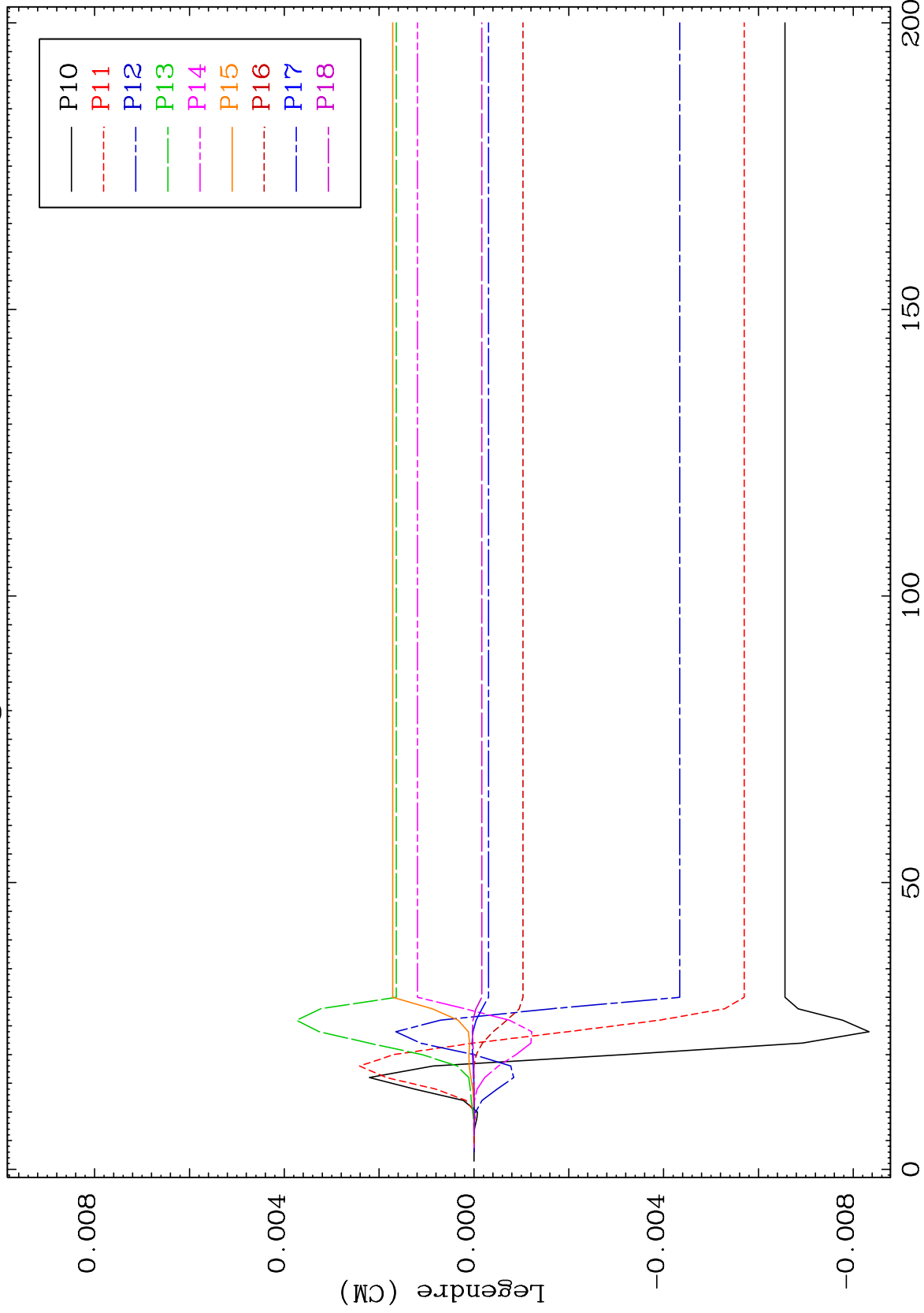
Incident Energy (MeV)

51

MAT 5628

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

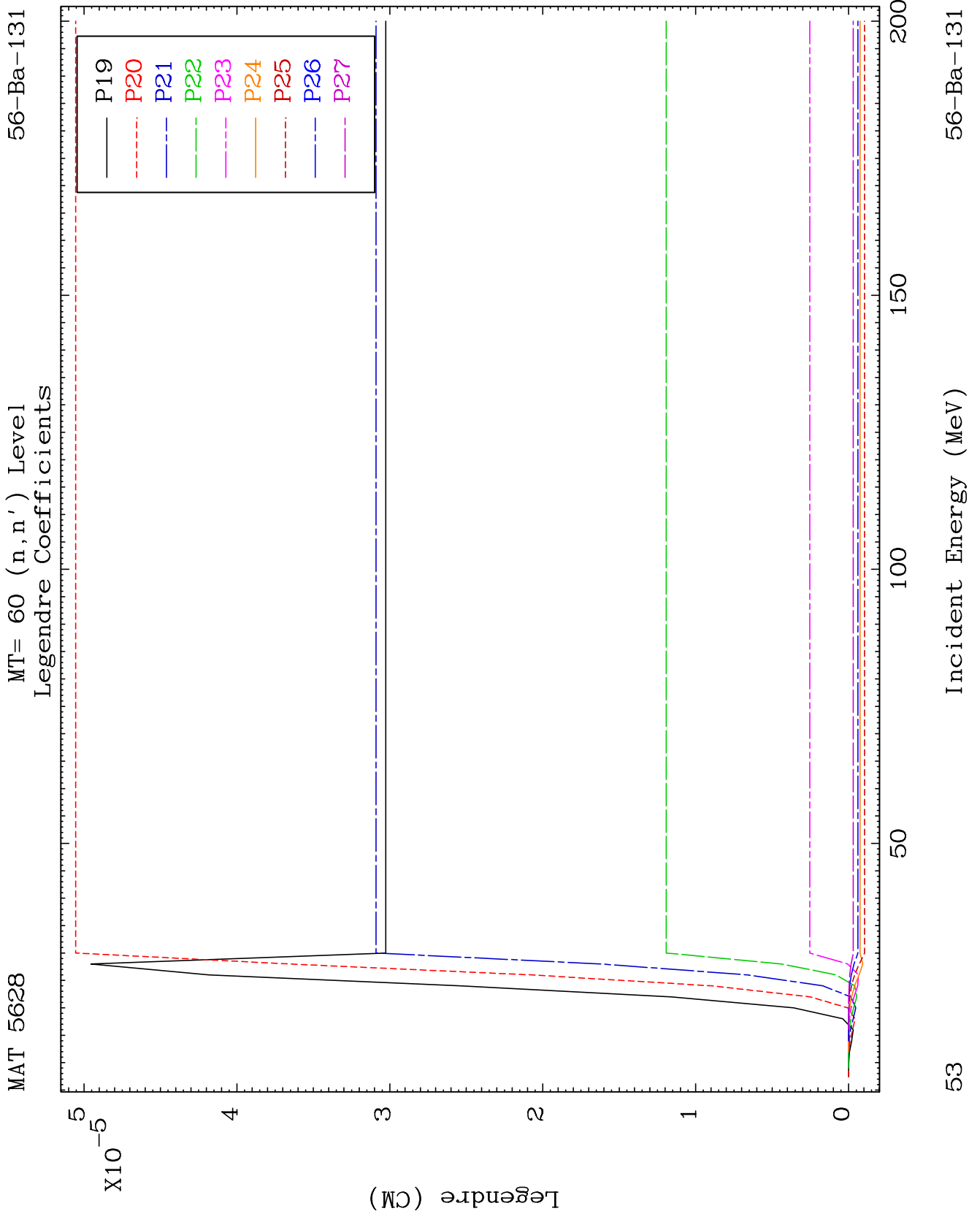
56-Ba-131

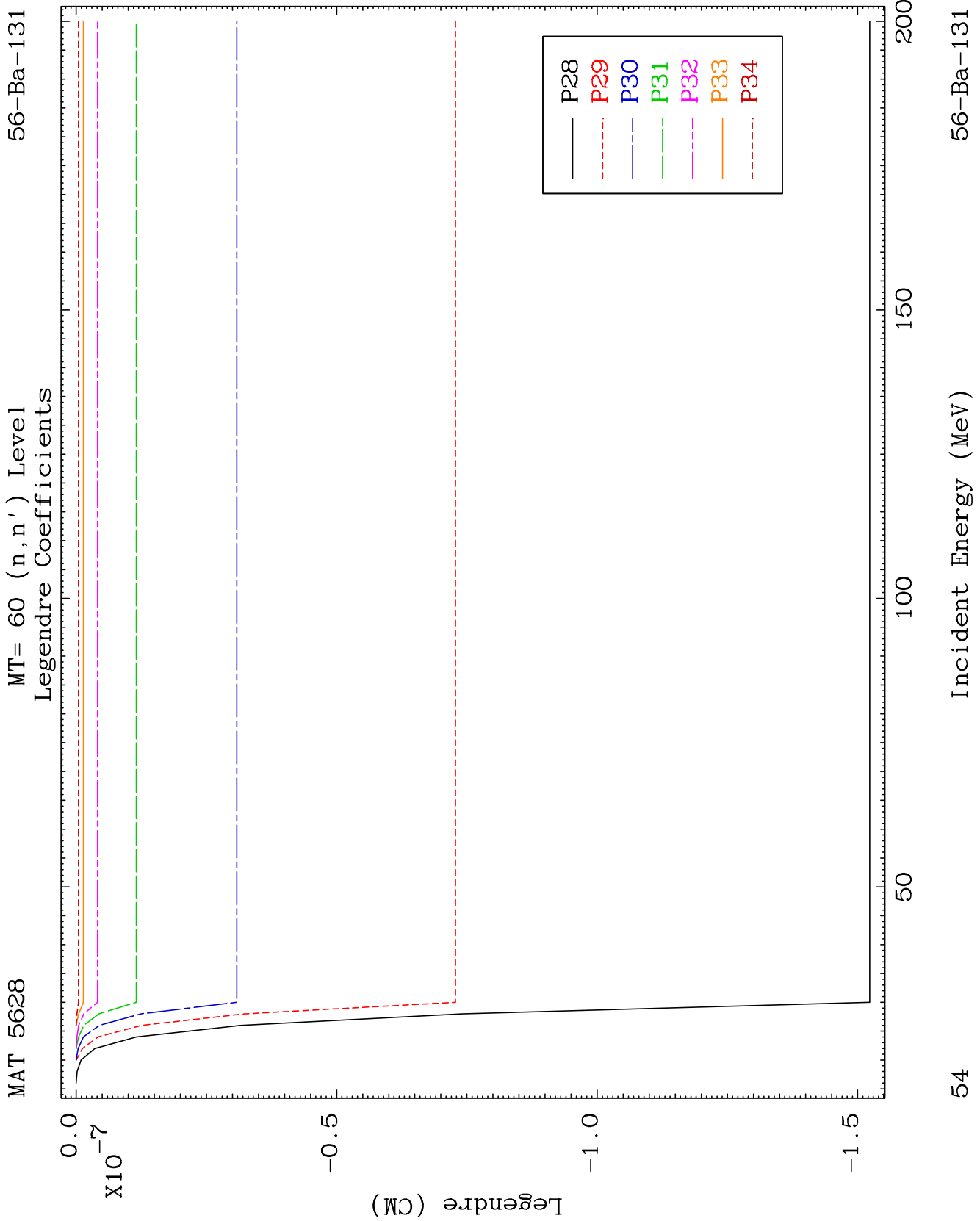


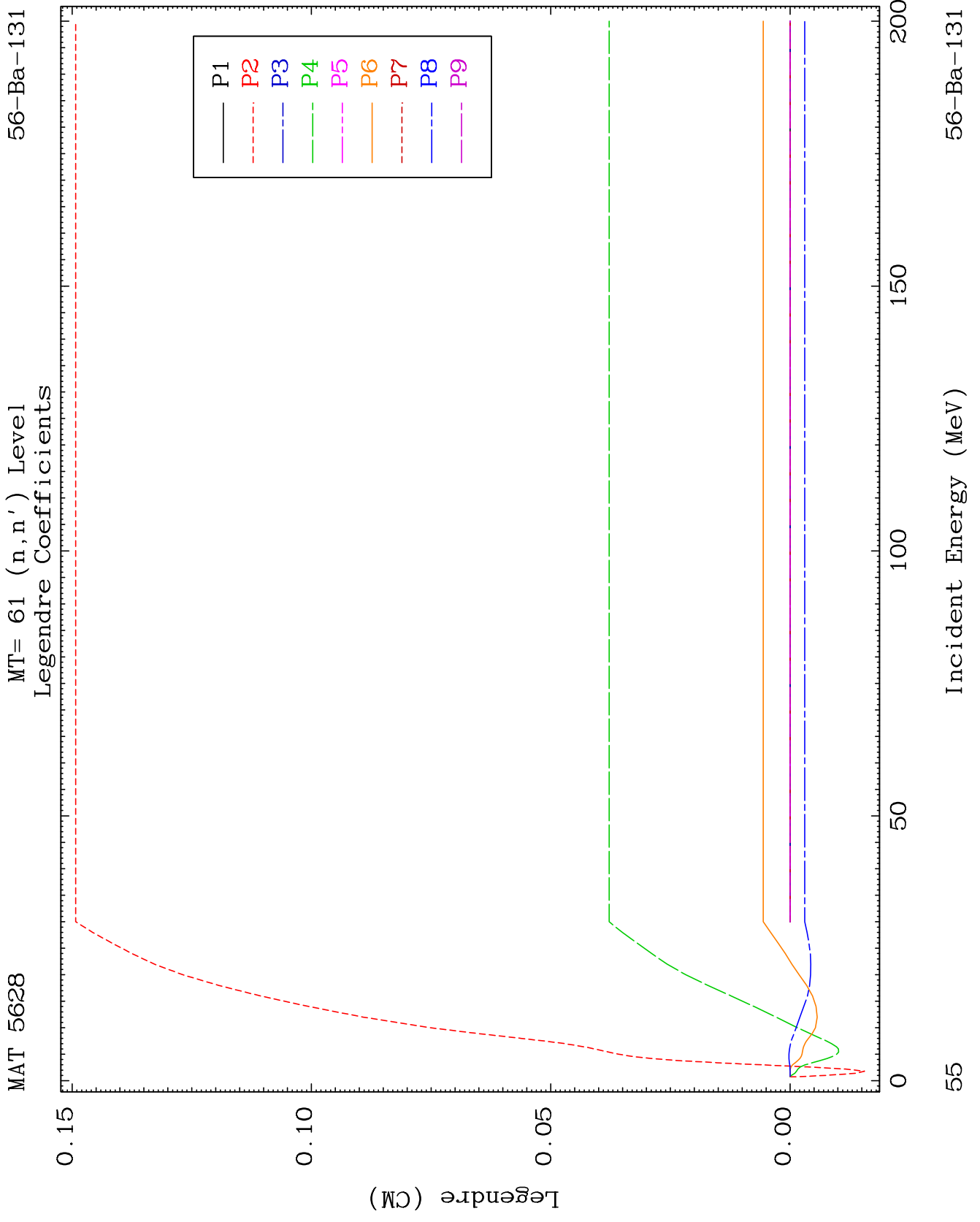
52

Incident Energy (MeV)

56-Ba-131







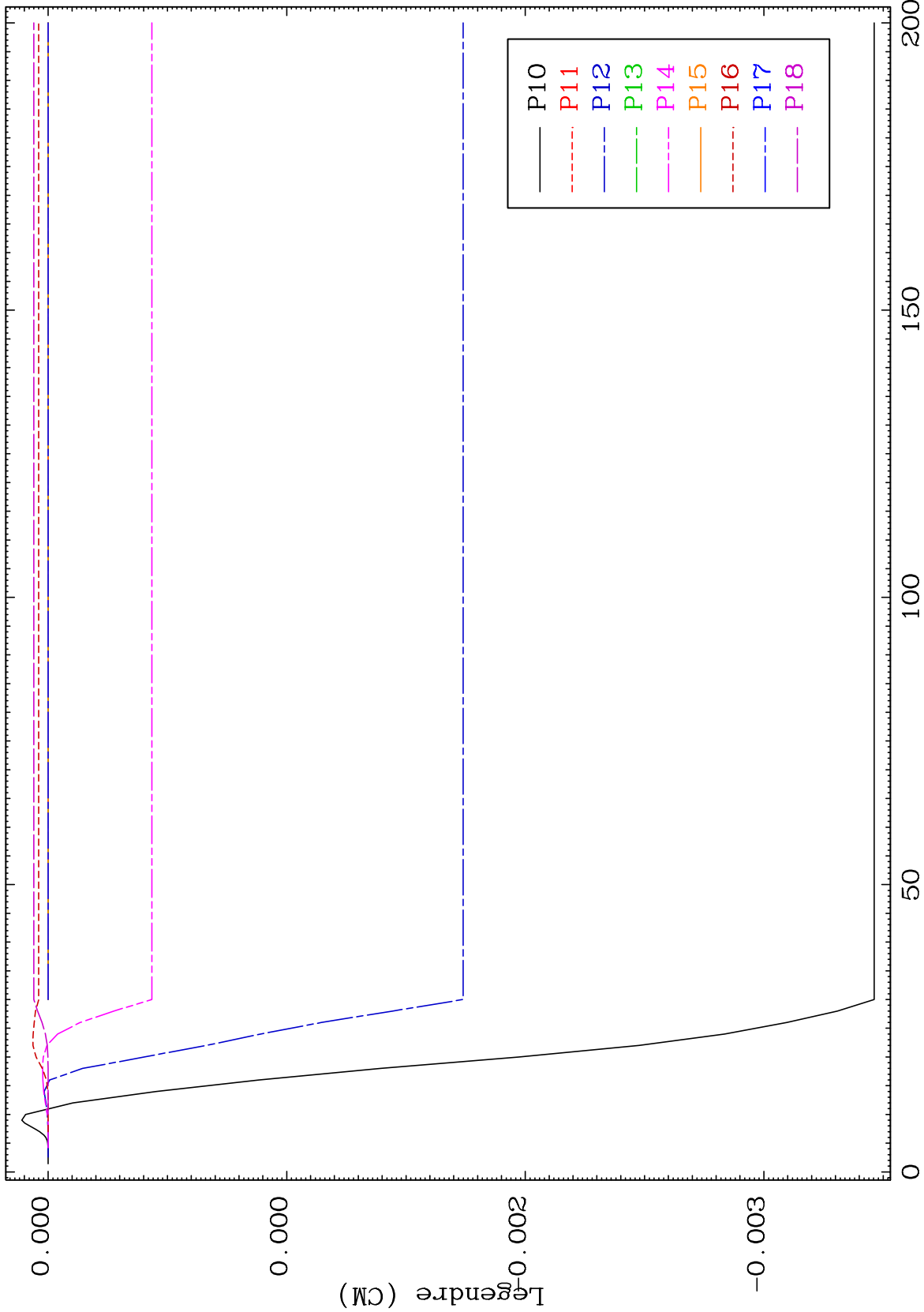


MAT 5628

MT= 61 (n,n') Level

56-Ba-131

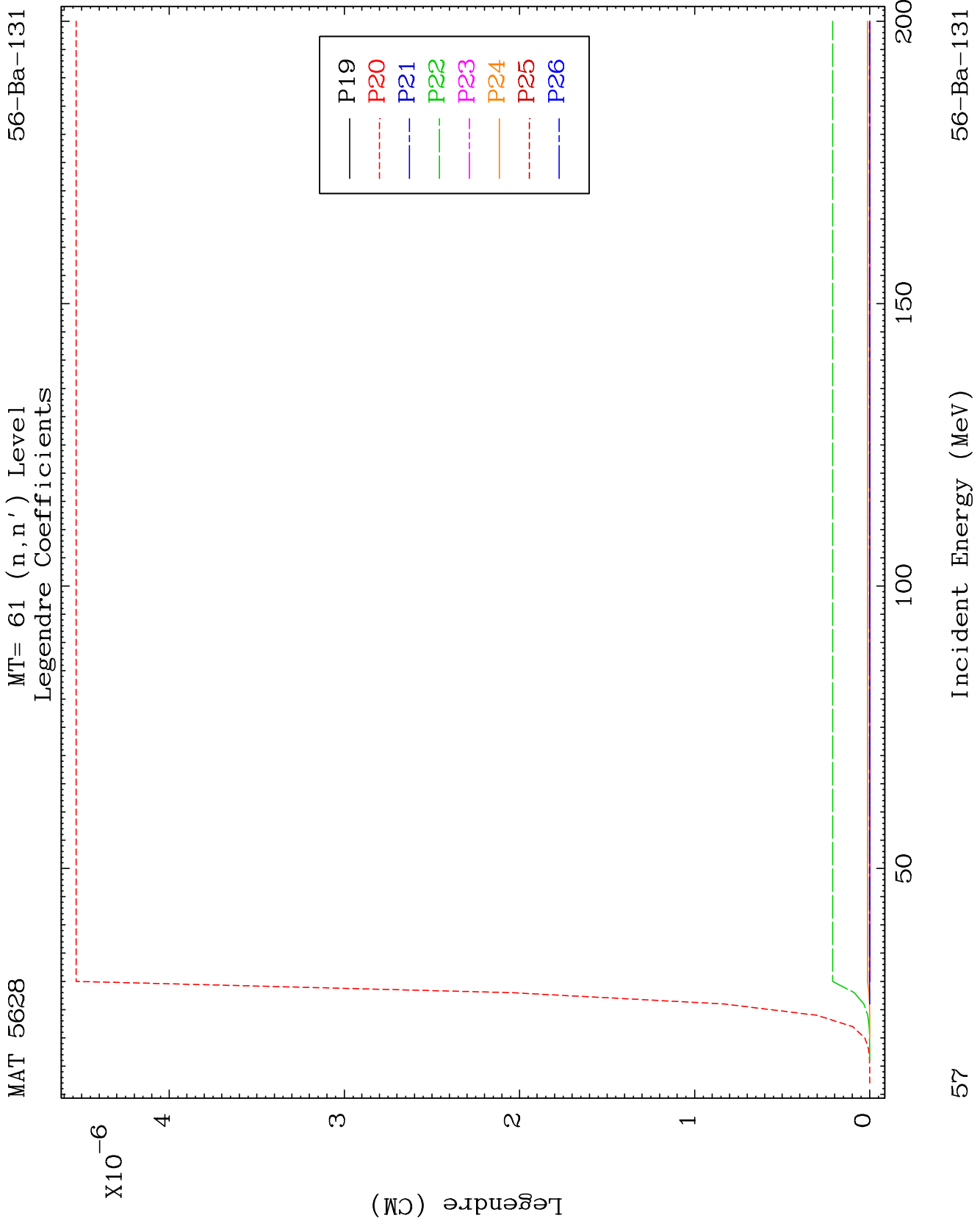
Legendre Coefficients

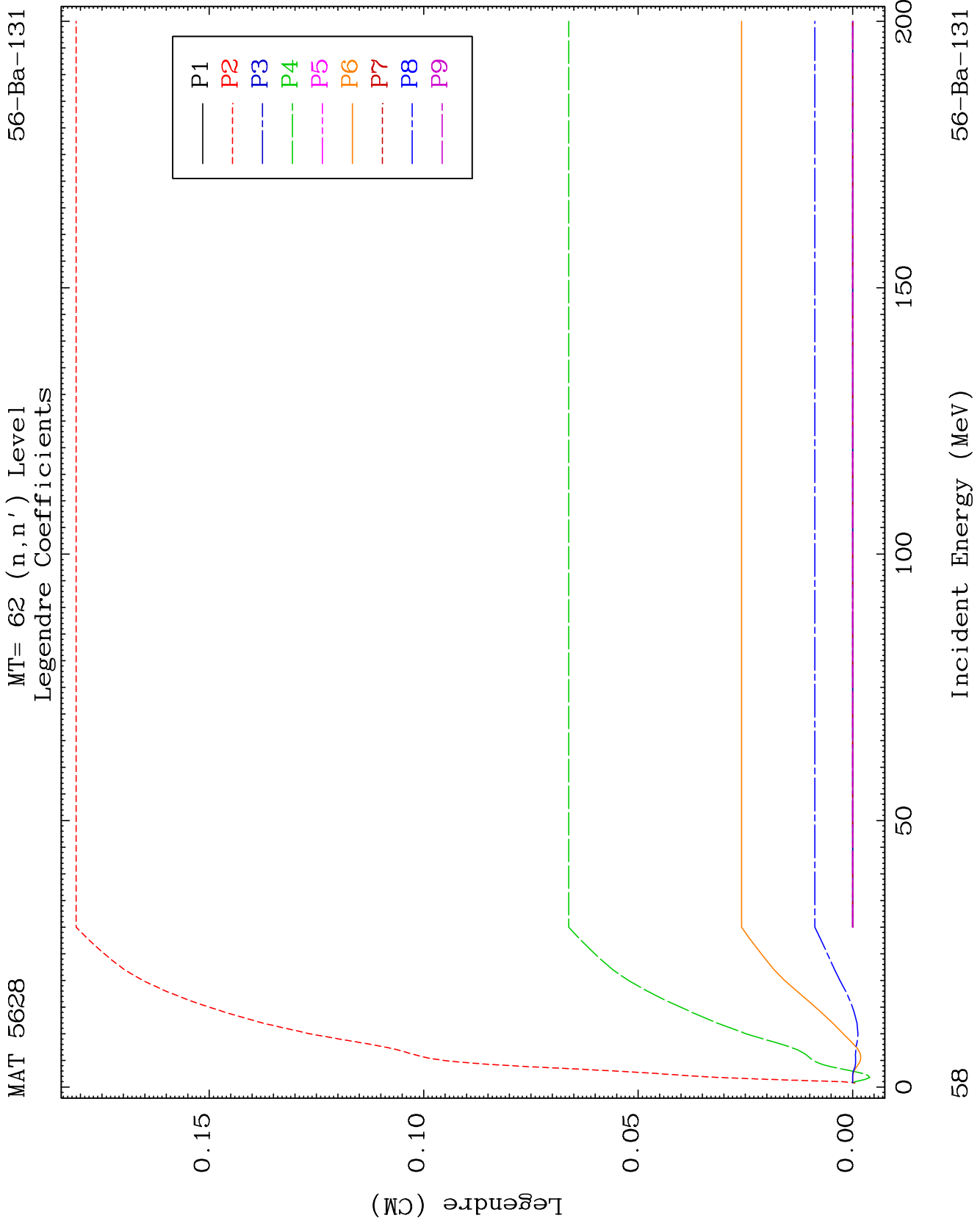


56

Incident Energy (MeV)

56-Ba-131





56-Ba-131

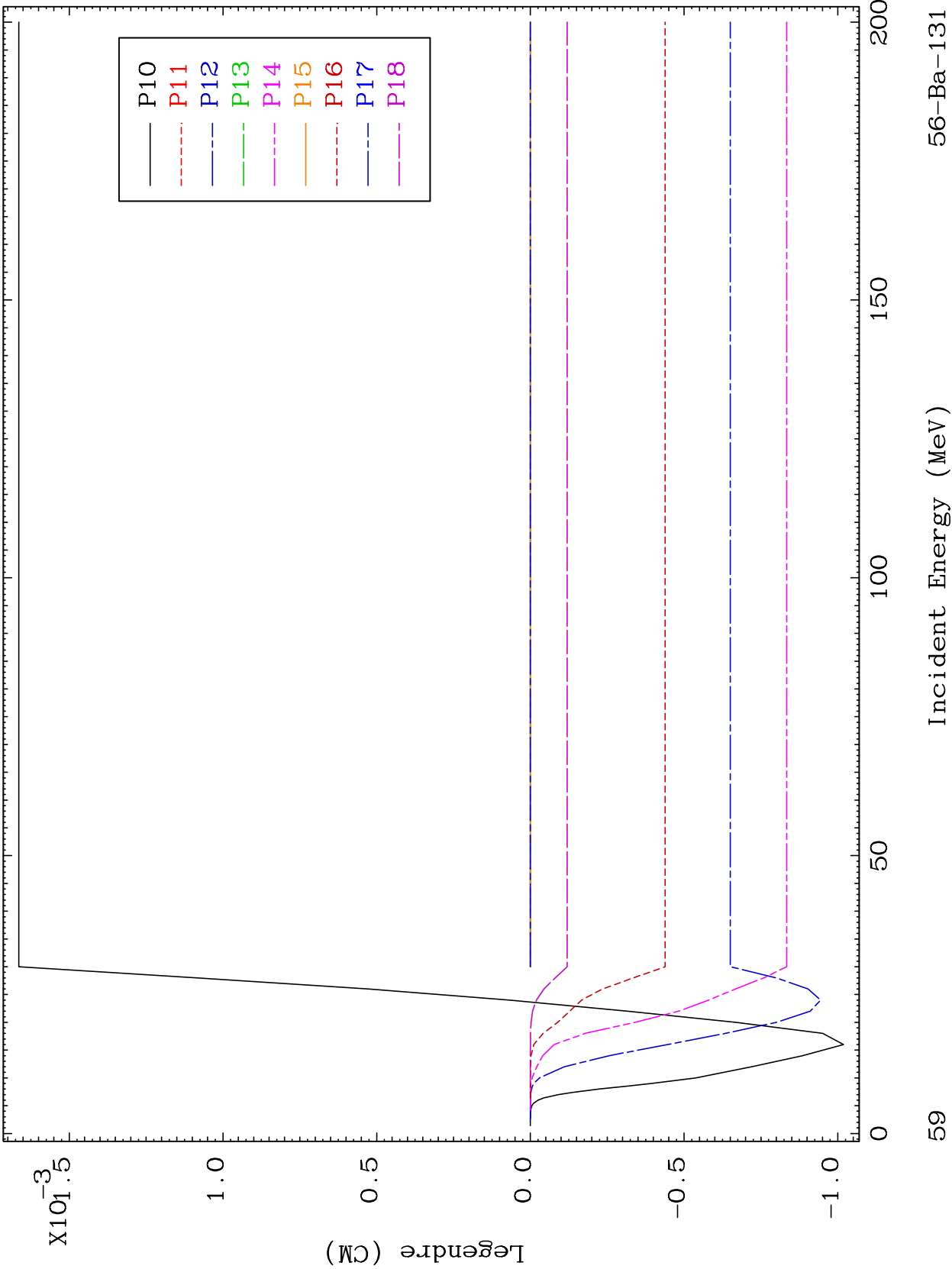
Incident Energy (MeV)

58

MAT 5628

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

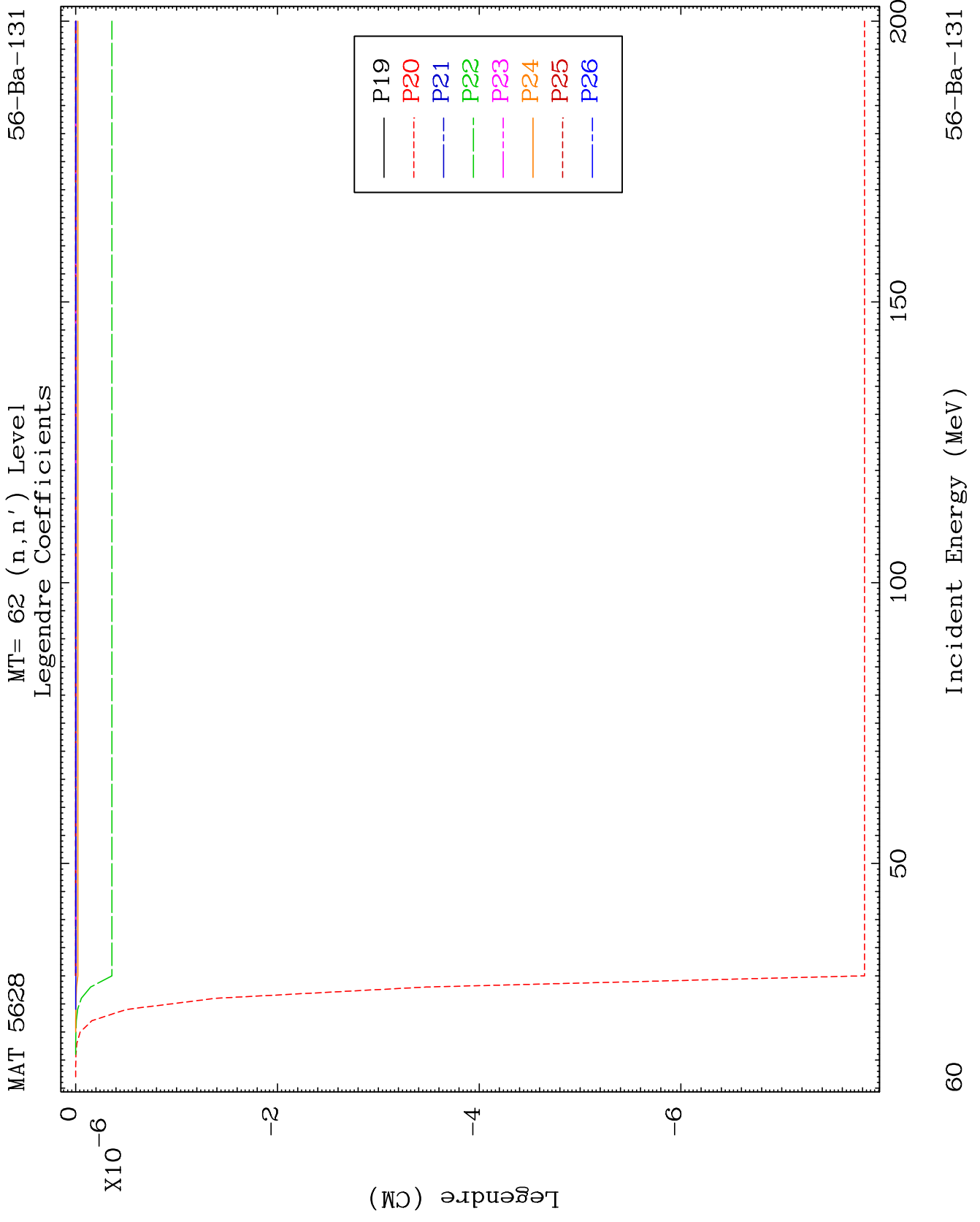
56-Ba-131

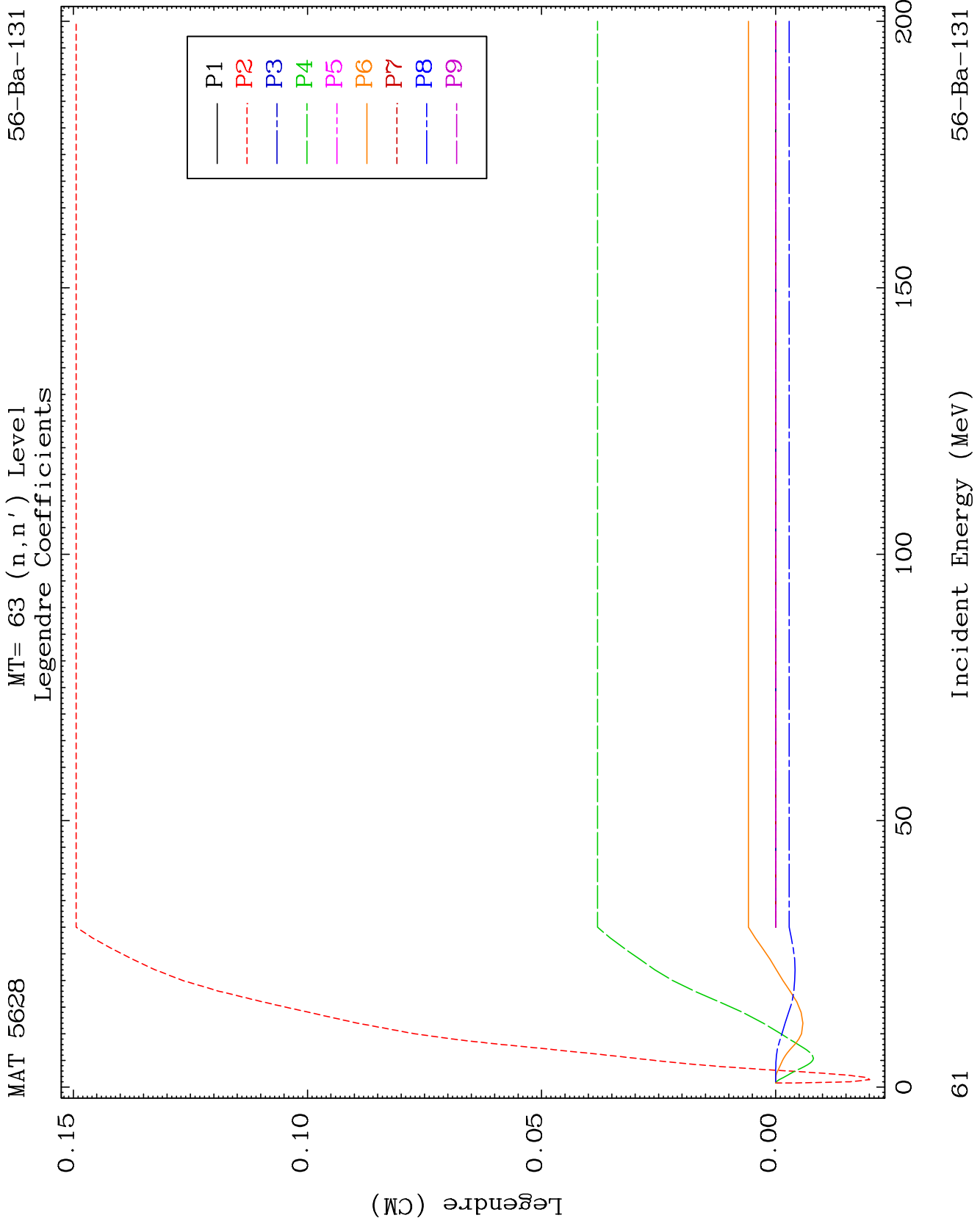


59

Incident Energy (MeV)

56-Ba-131



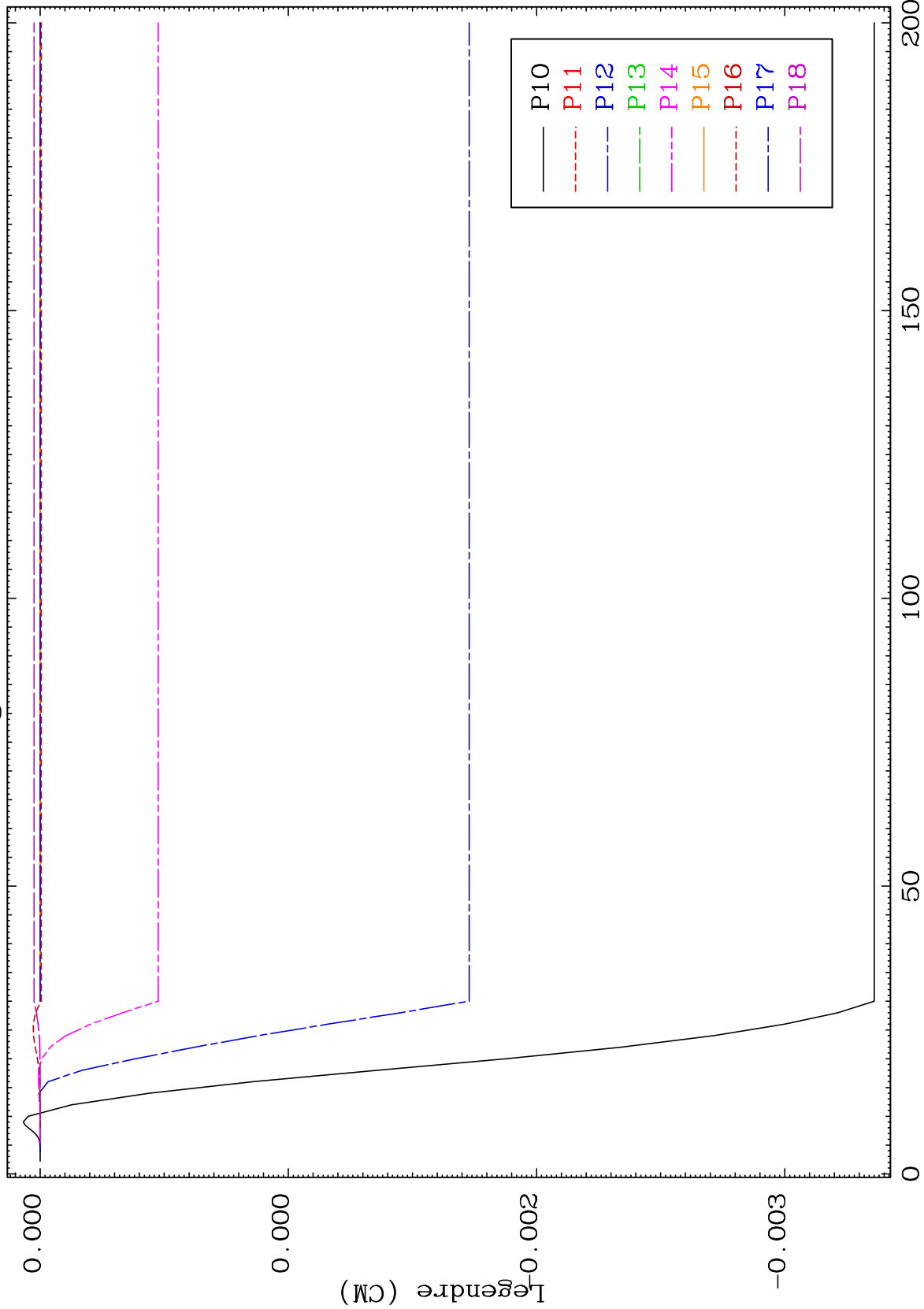


MAT 5628

MT= 63 (n,n') Level

56-Ba-131

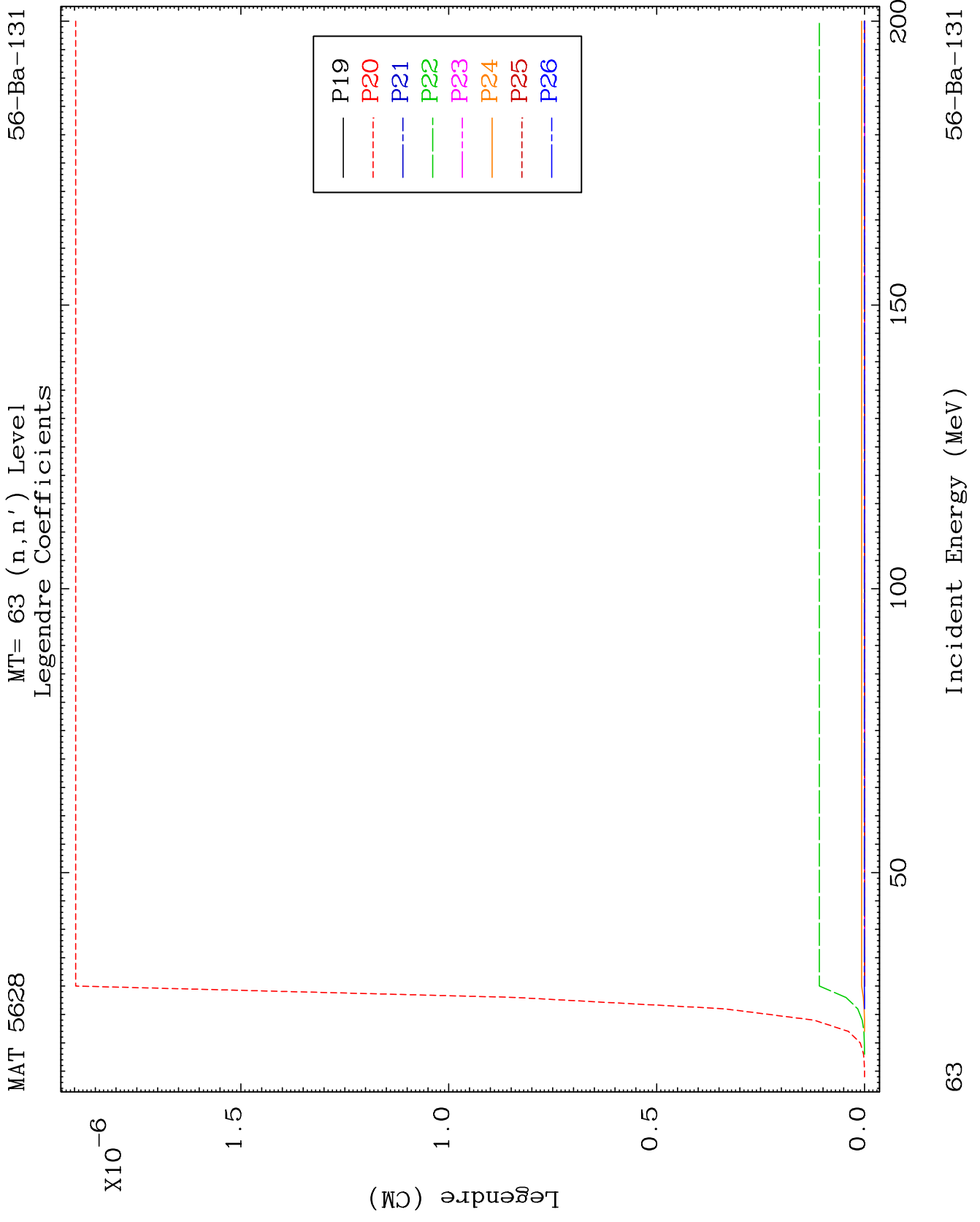
Legendre Coefficients



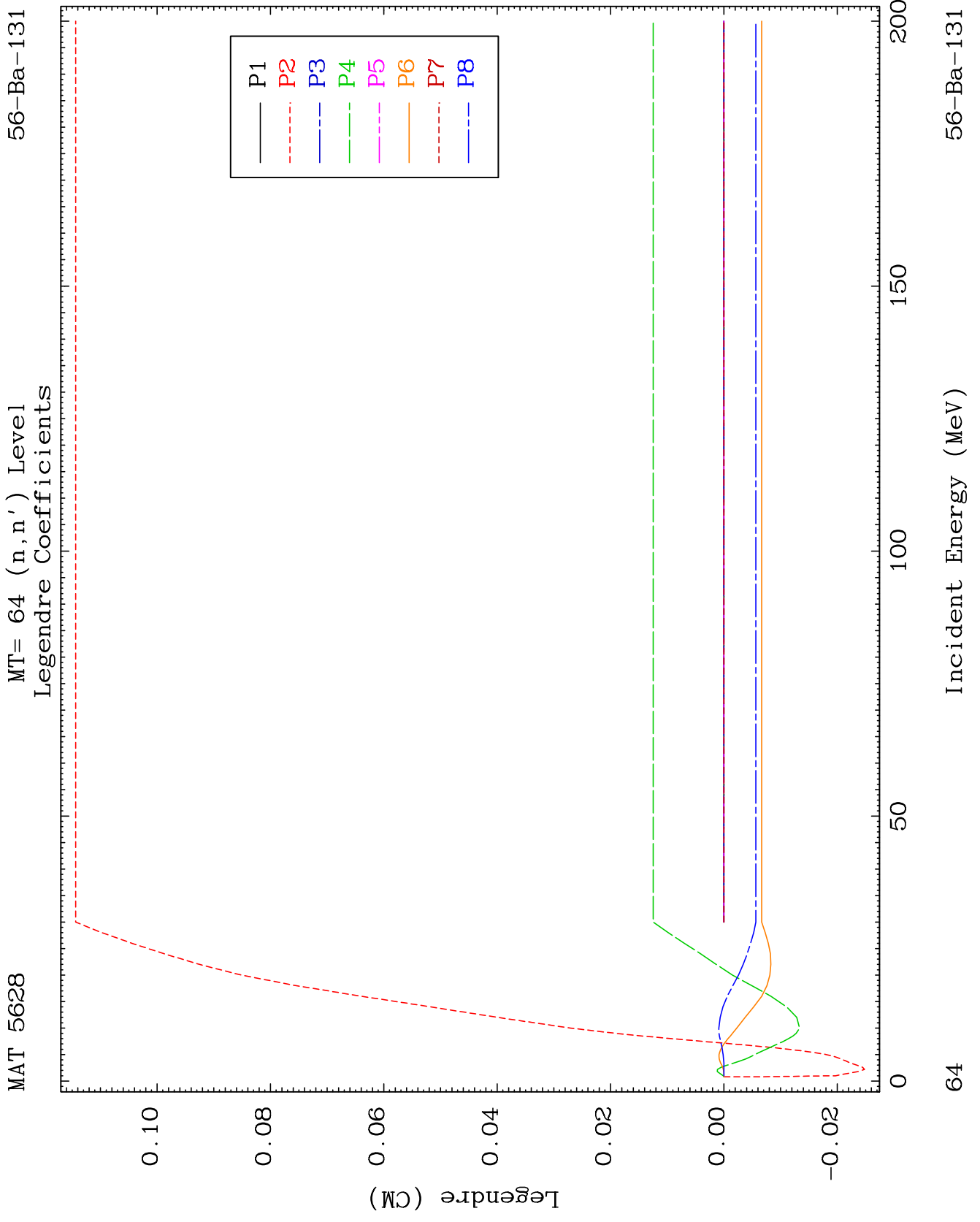
62

Incident Energy (MeV)

56-Ba-131



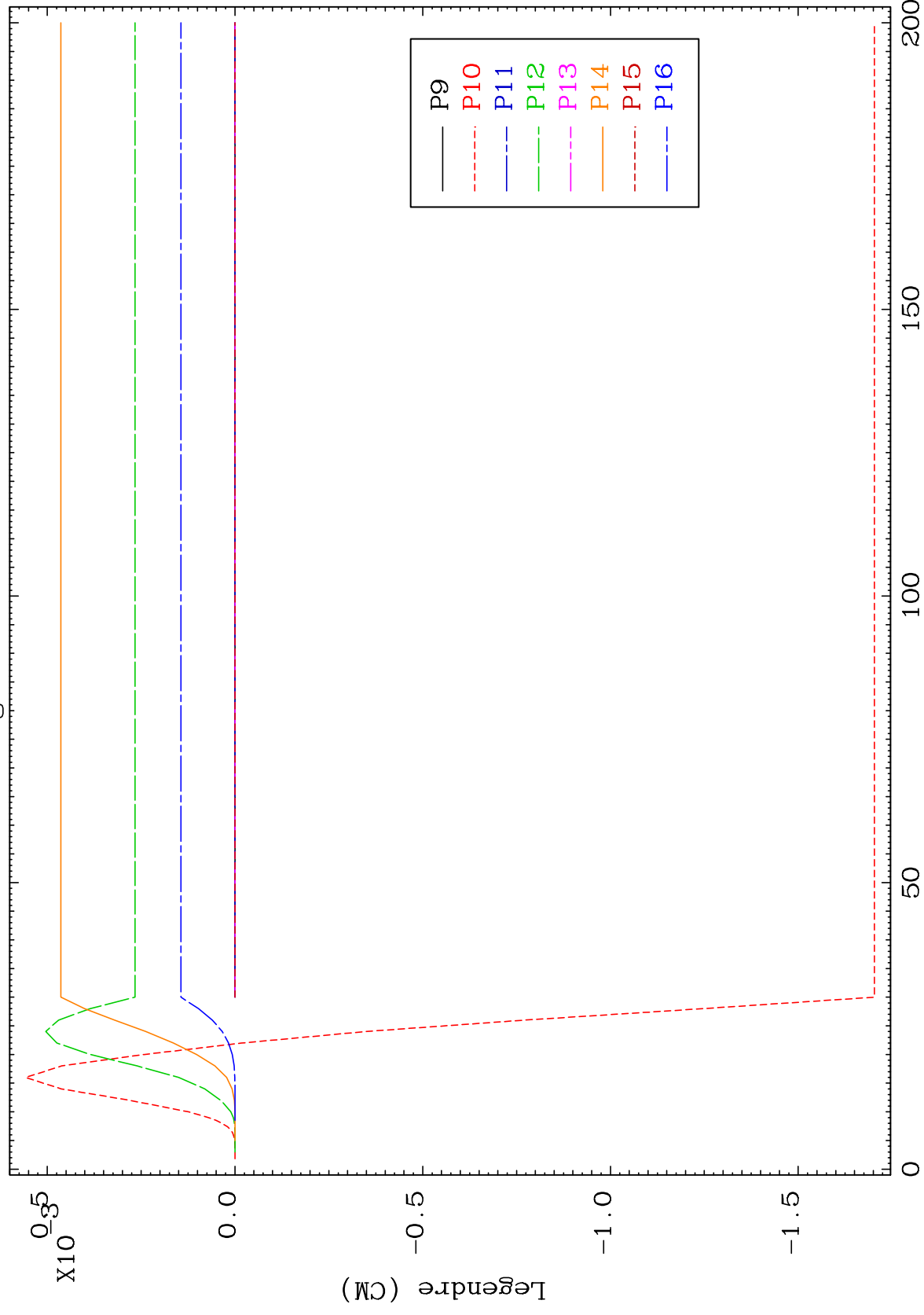




MAT 5628

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

56-Ba-131



65

Incident Energy (MeV)

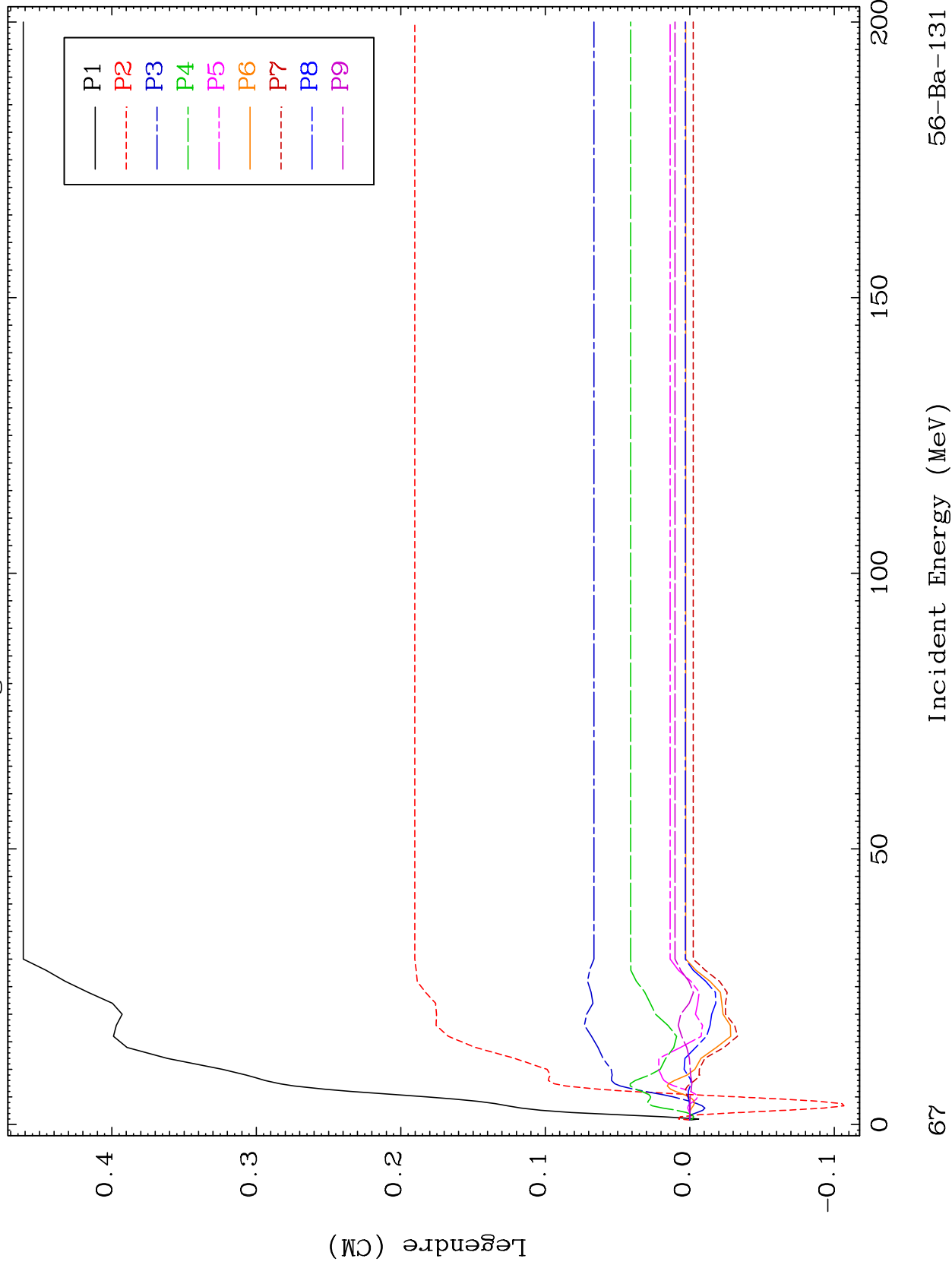
56-Ba-131



MAT 5628

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

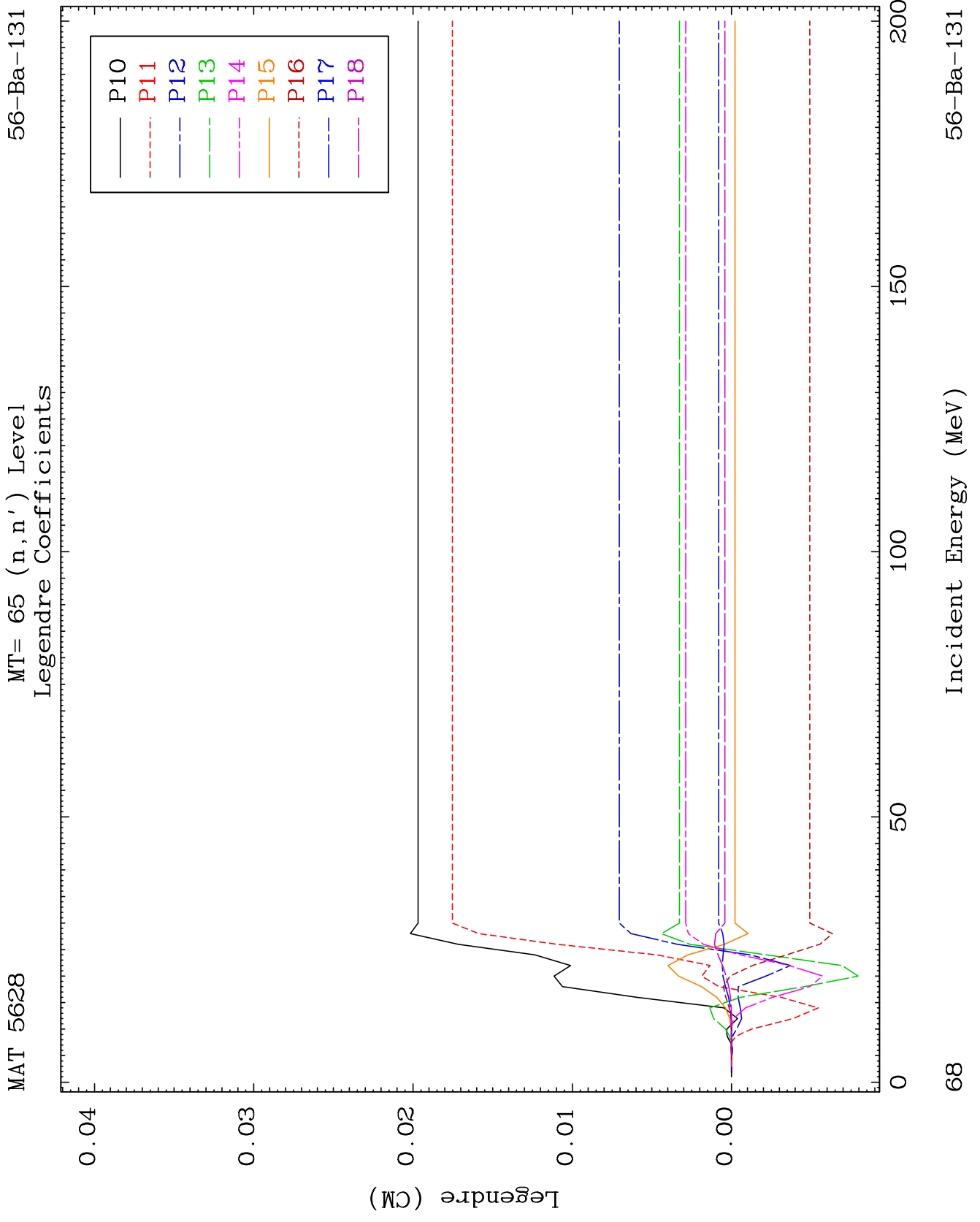
56-Ba-131



56-Ba-131

Incident Energy (MeV)

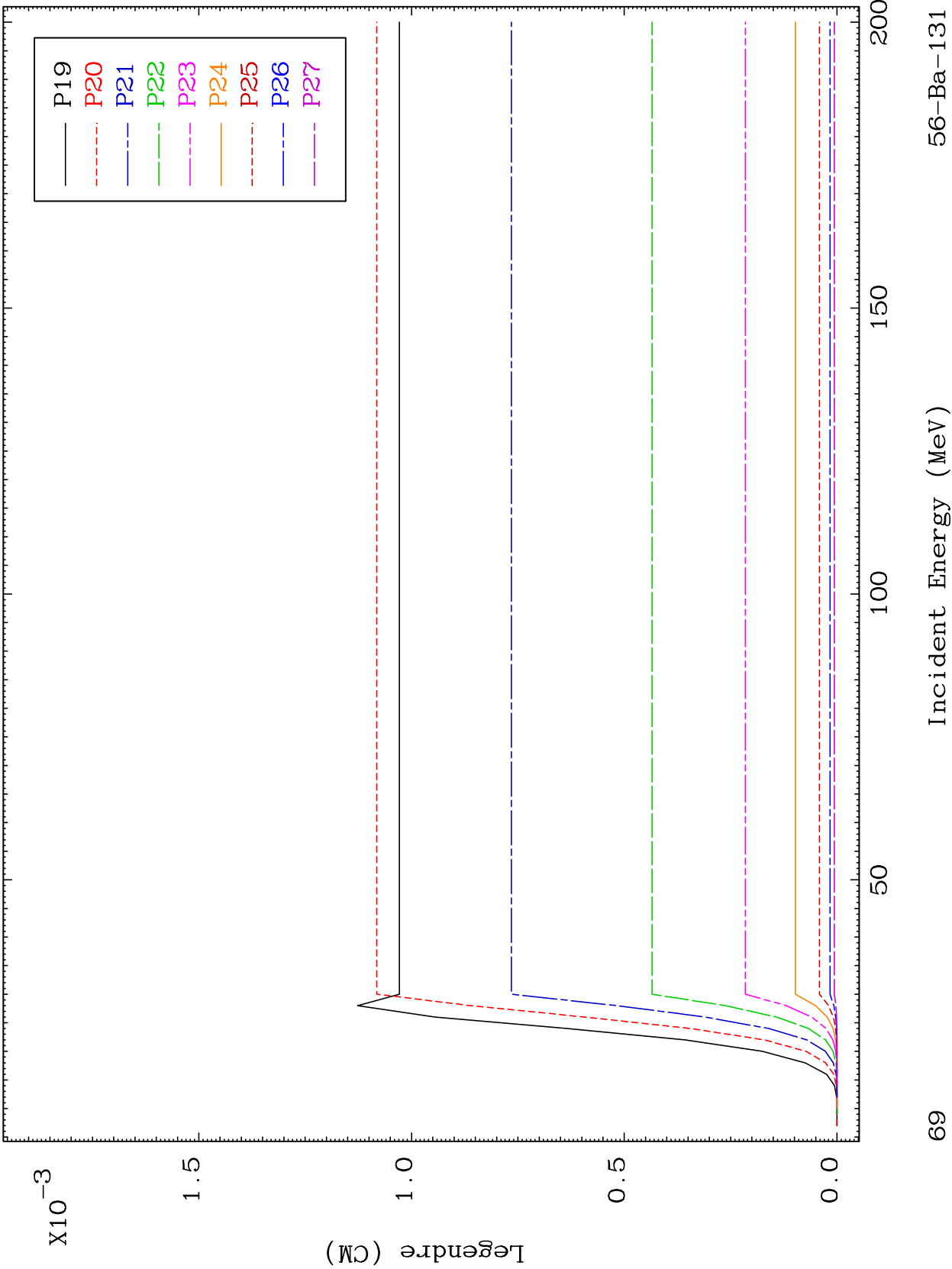
67



MAT 5628

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

56-Ba-131



69

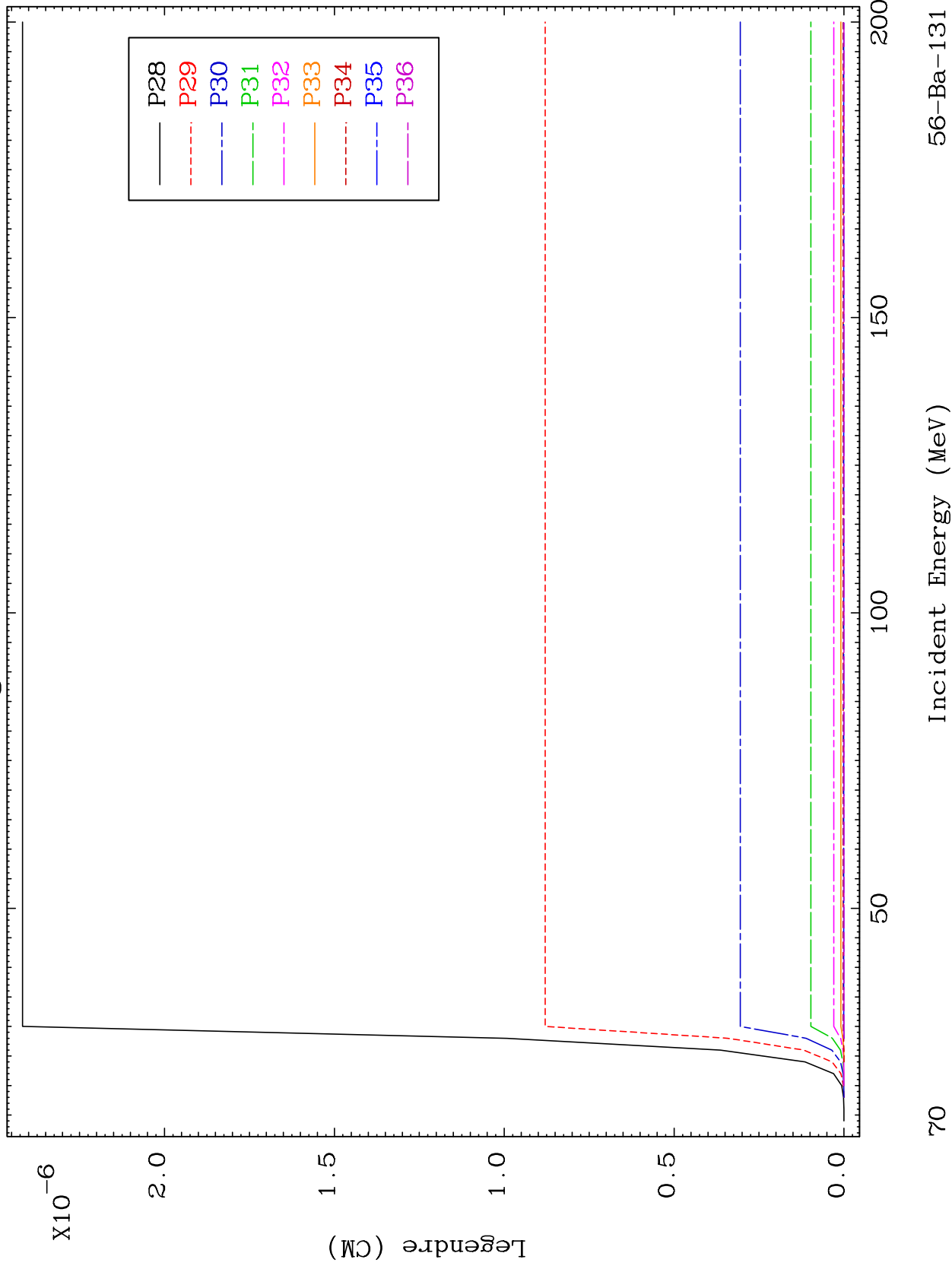
Incident Energy (MeV)

56-Ba-131

MAT 5628

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

56-Ba-131



70

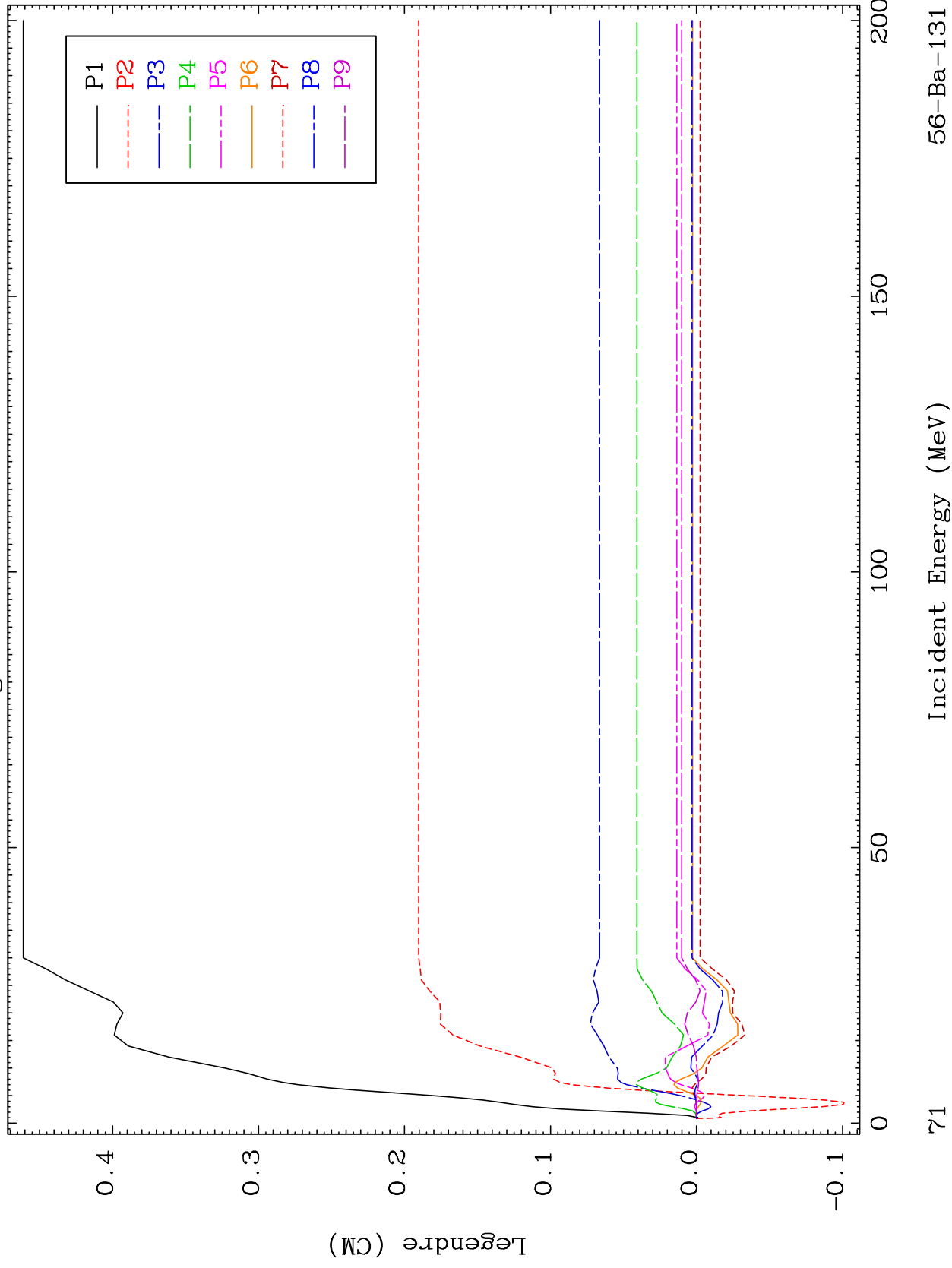
Incident Energy (MeV)

56-Ba-131

MAT 5628

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

56-Ba-131



56-Ba-131

Incident Energy (MeV)

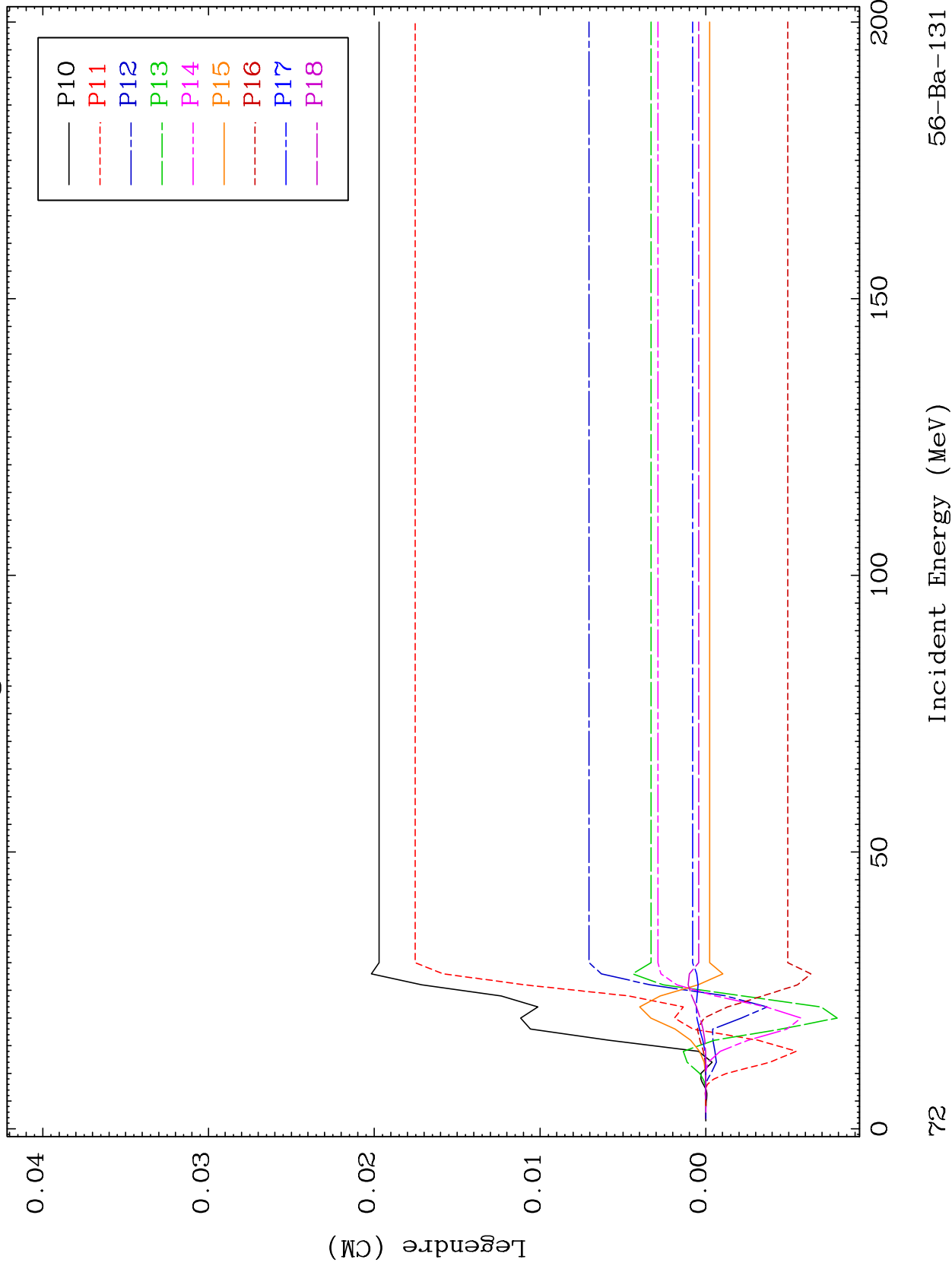
71



MAT 5628

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

56-Ba-131



72

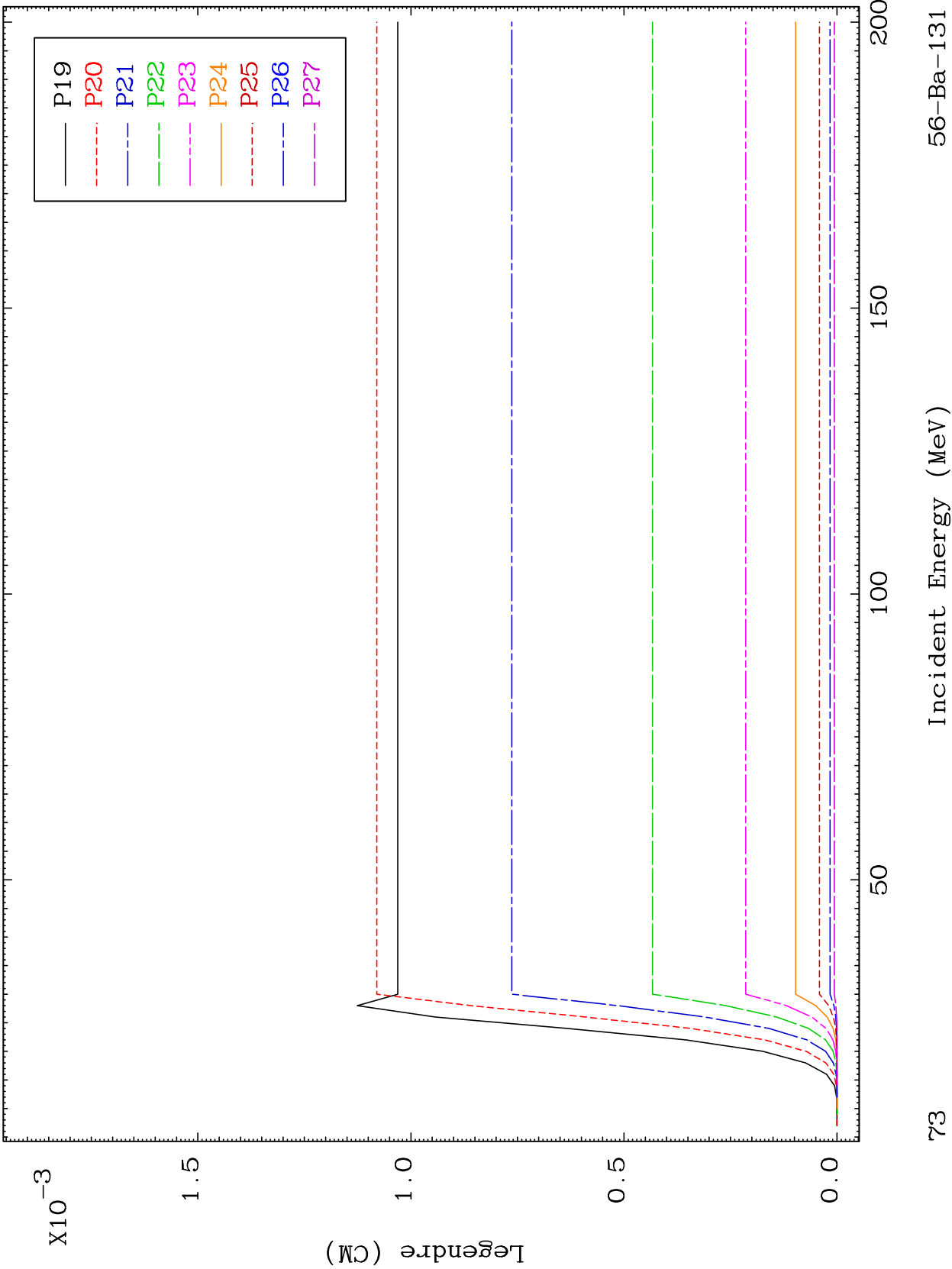
Incident Energy (MeV)

56-Ba-131

MAT 5628

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

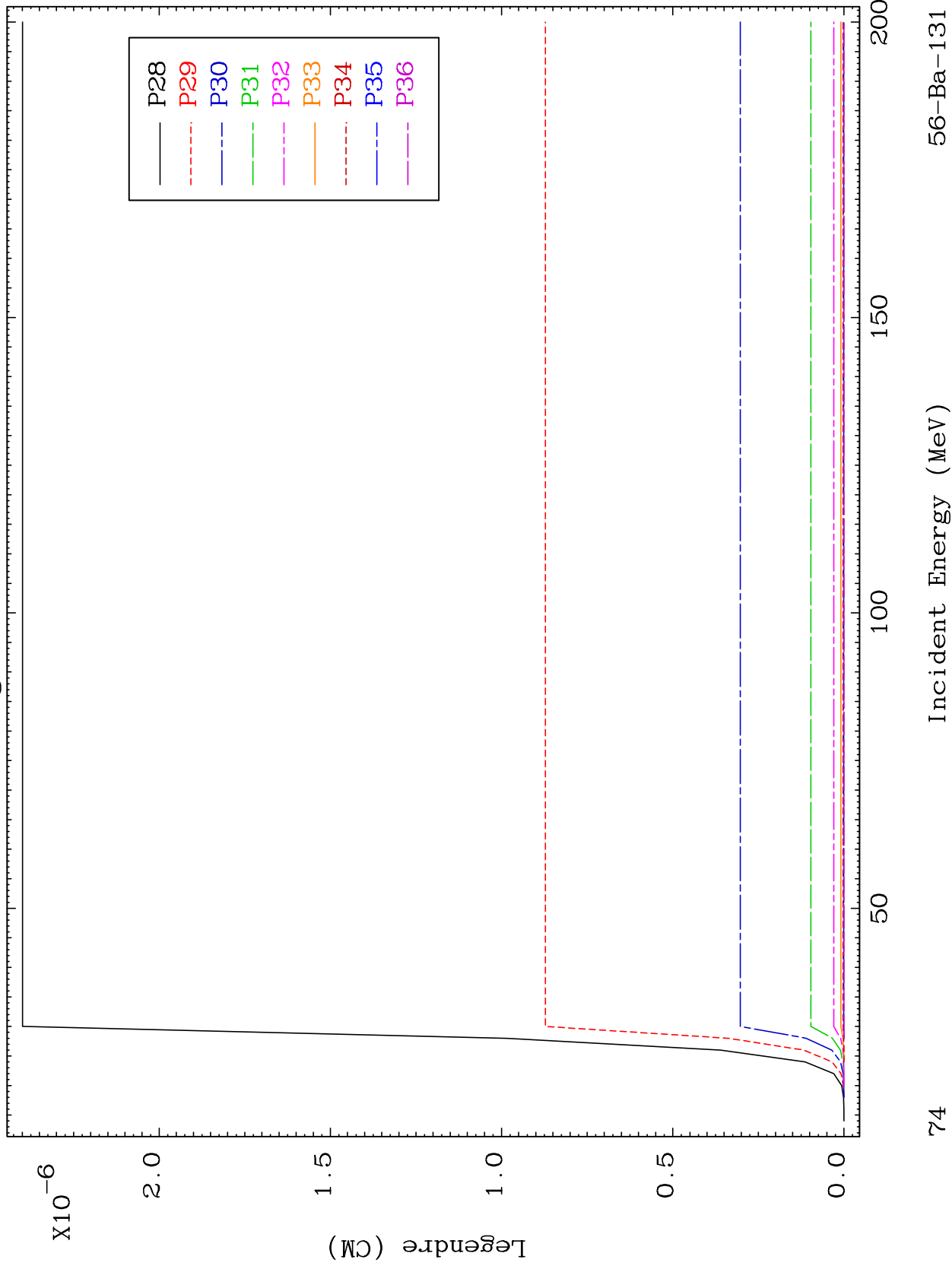
56-Ba-131

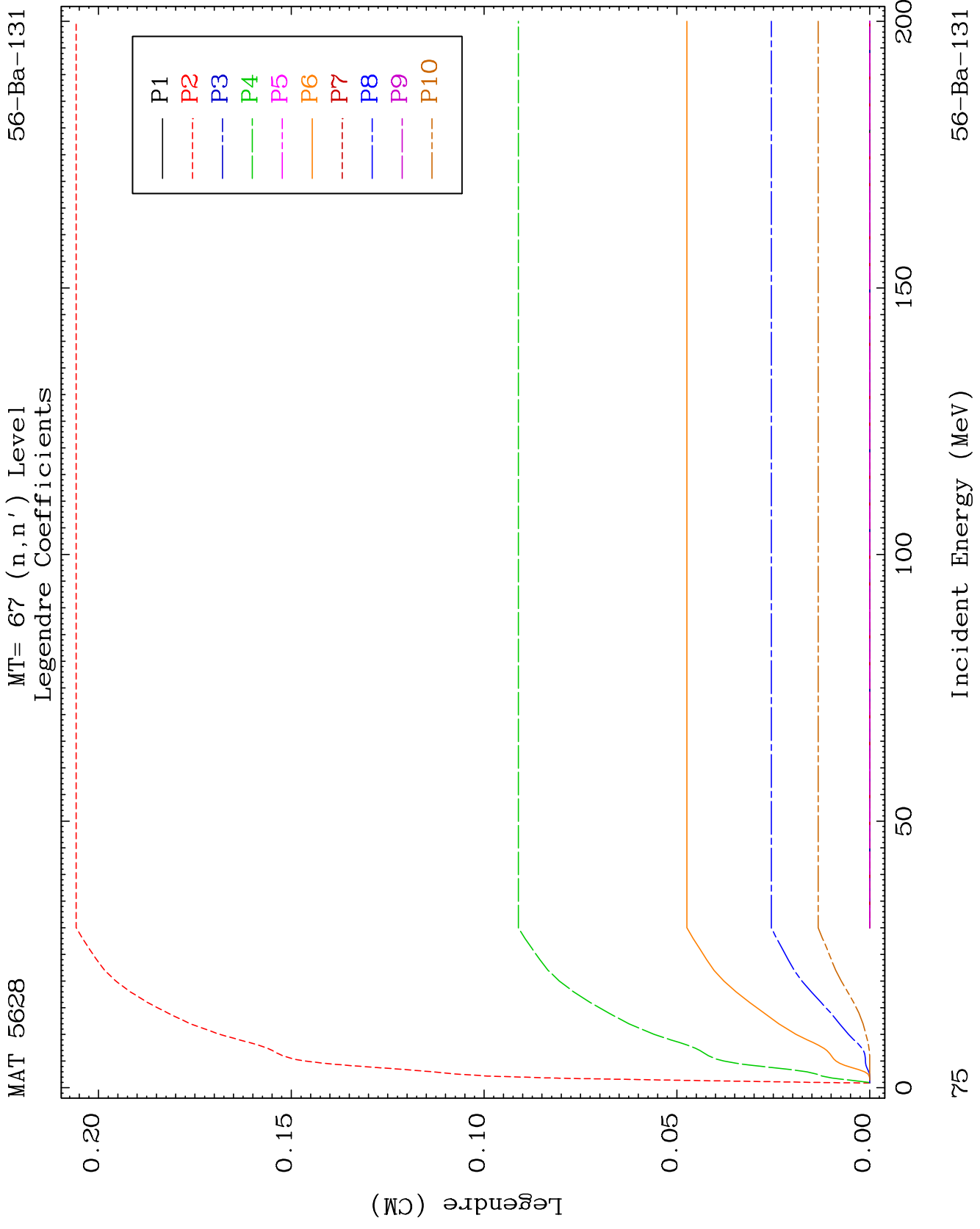


MAT 5628

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

56-Ba-131

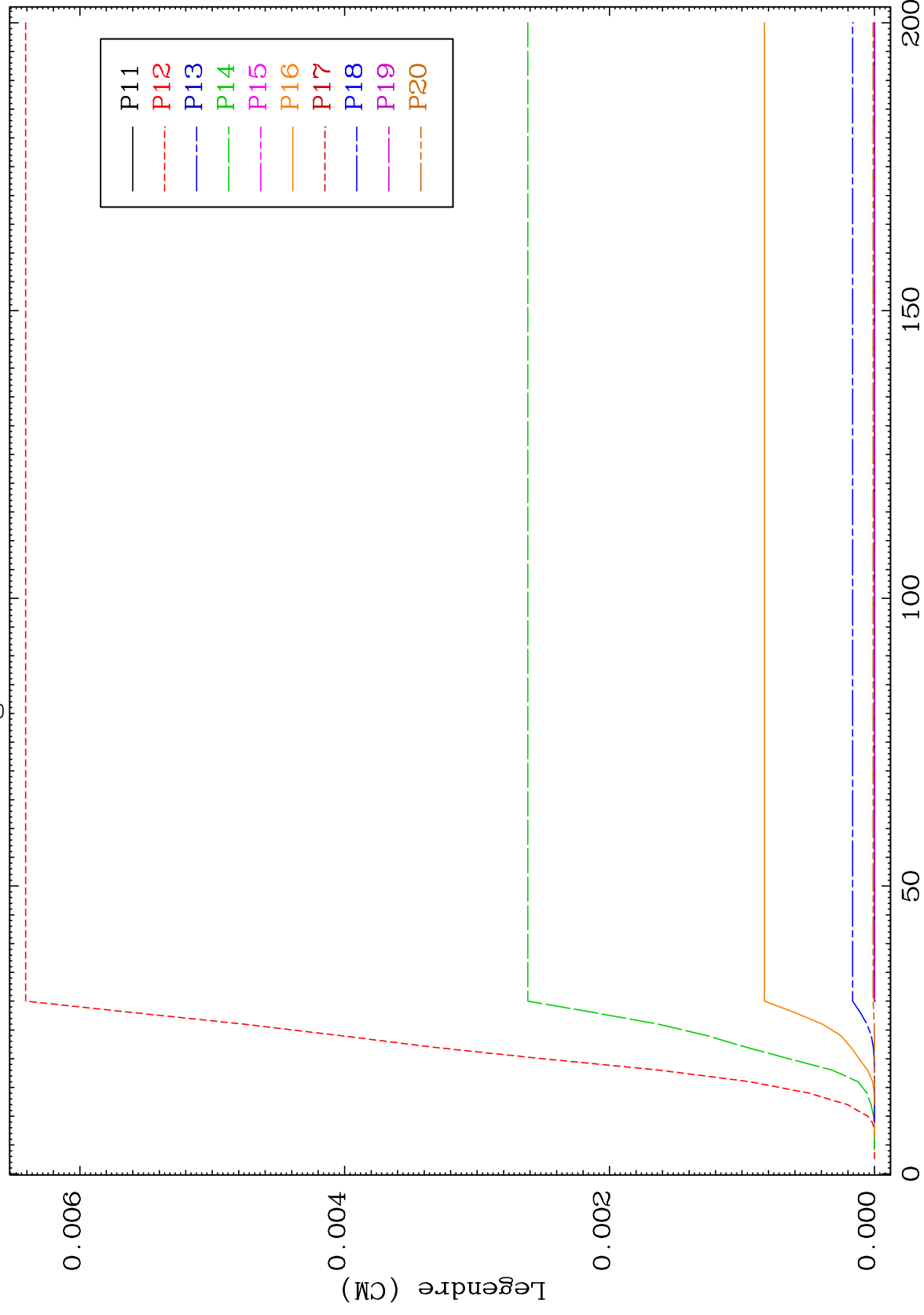




MAT 5628

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

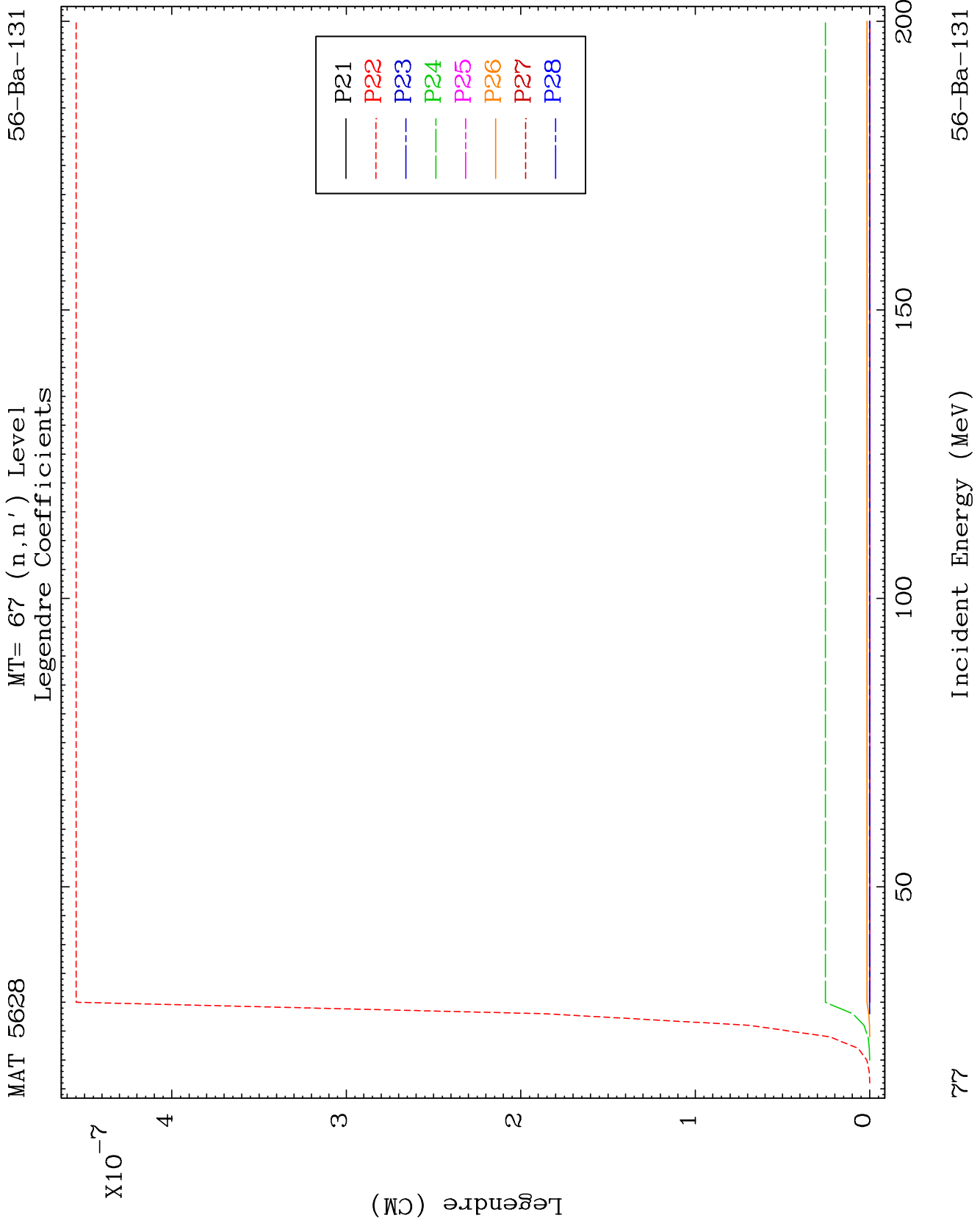
56-Ba-131



76

Incident Energy (MeV)

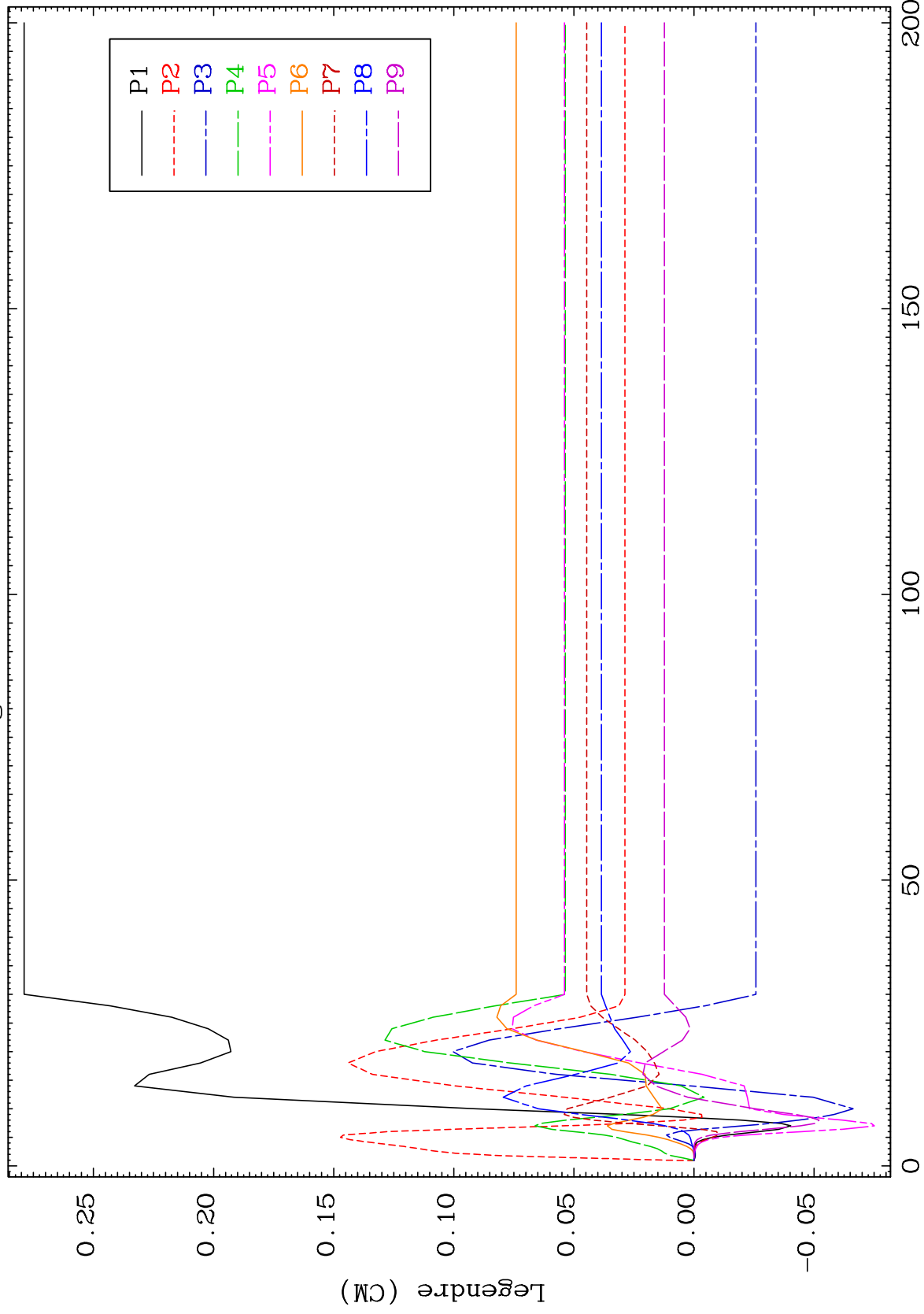
56-Ba-131



MAT 5628

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

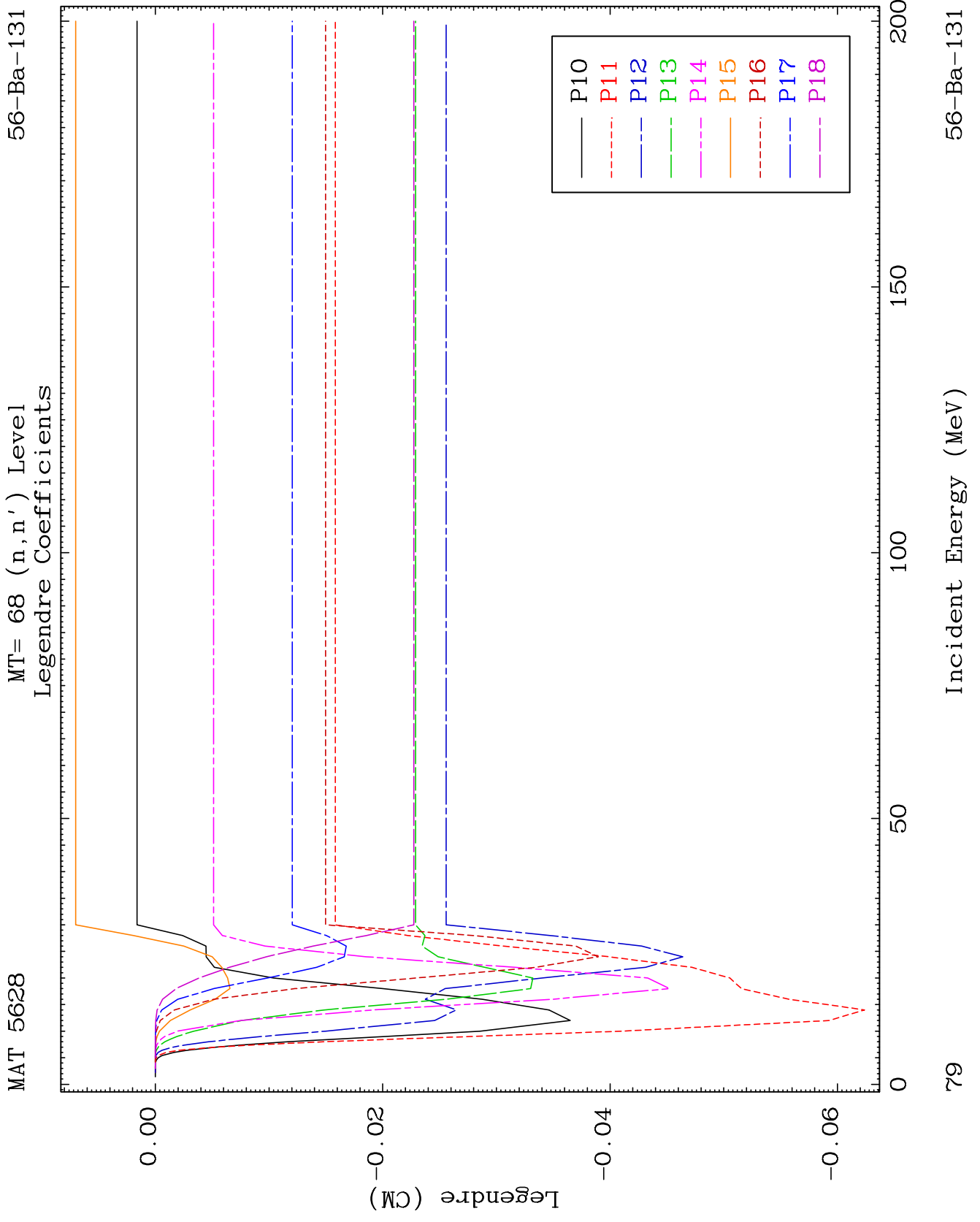
56-Ba-131



78

Incident Energy (MeV)

56-Ba-131

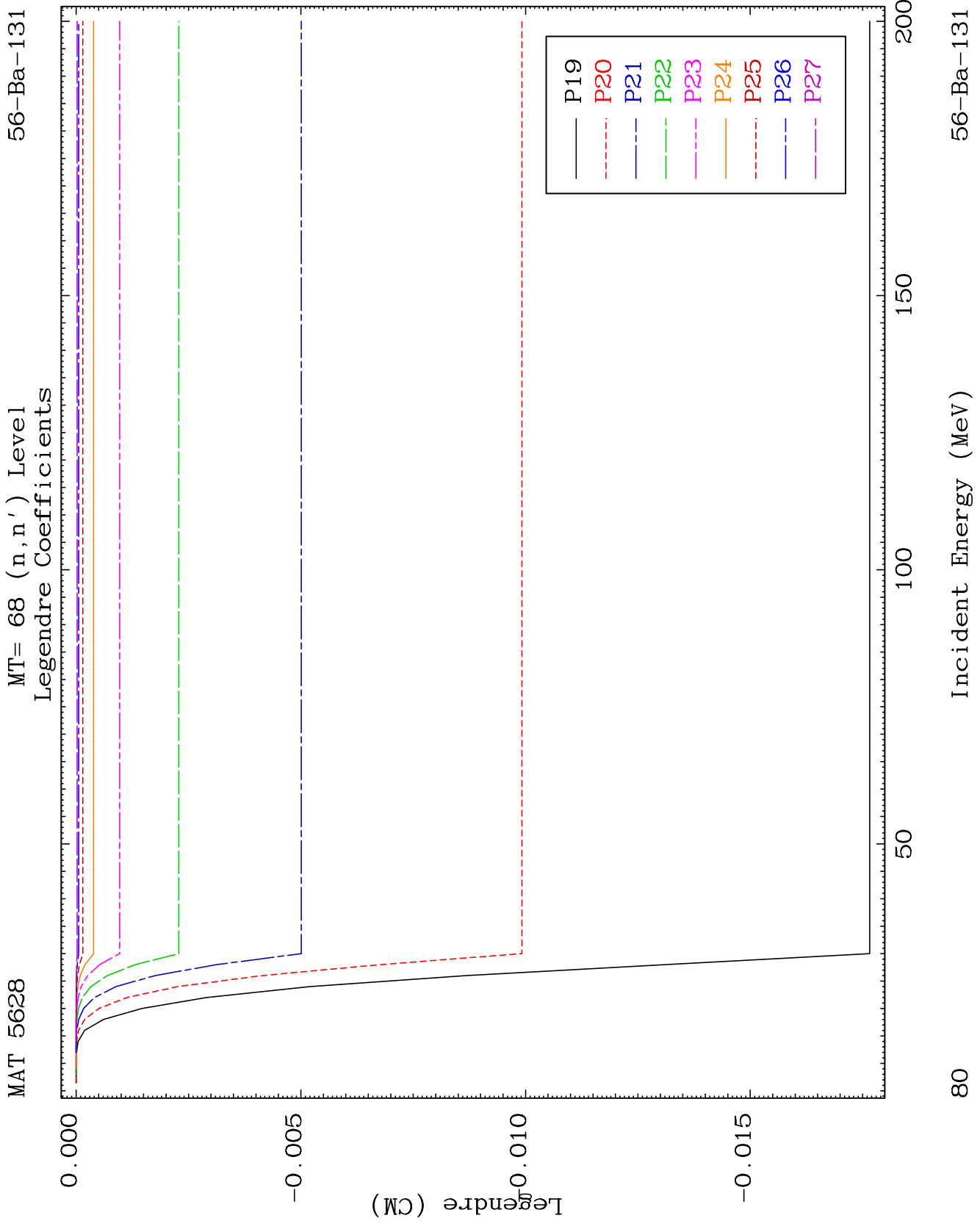


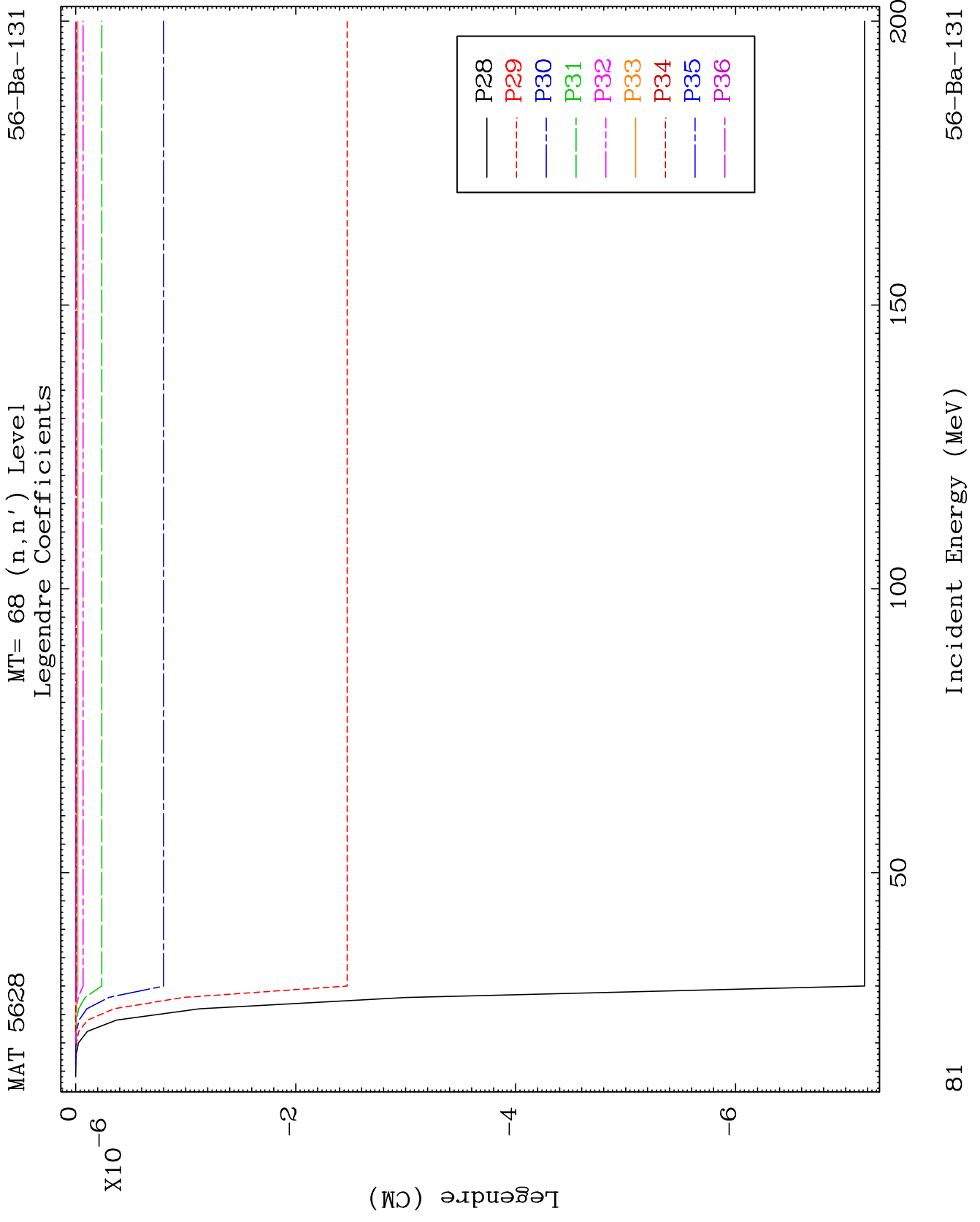
56-Ba-131

Incident Energy (MeV)

79



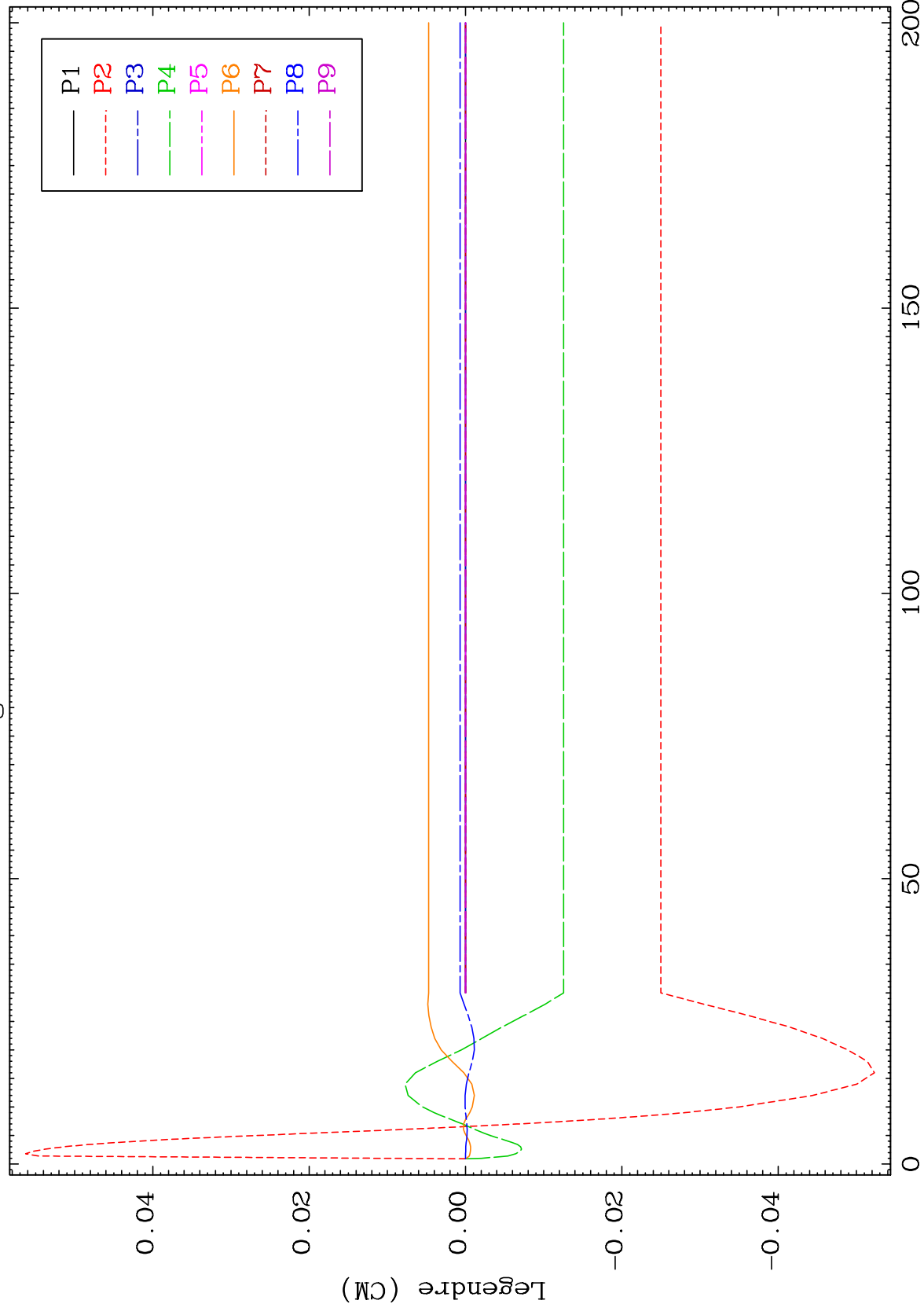




MAT 5628

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

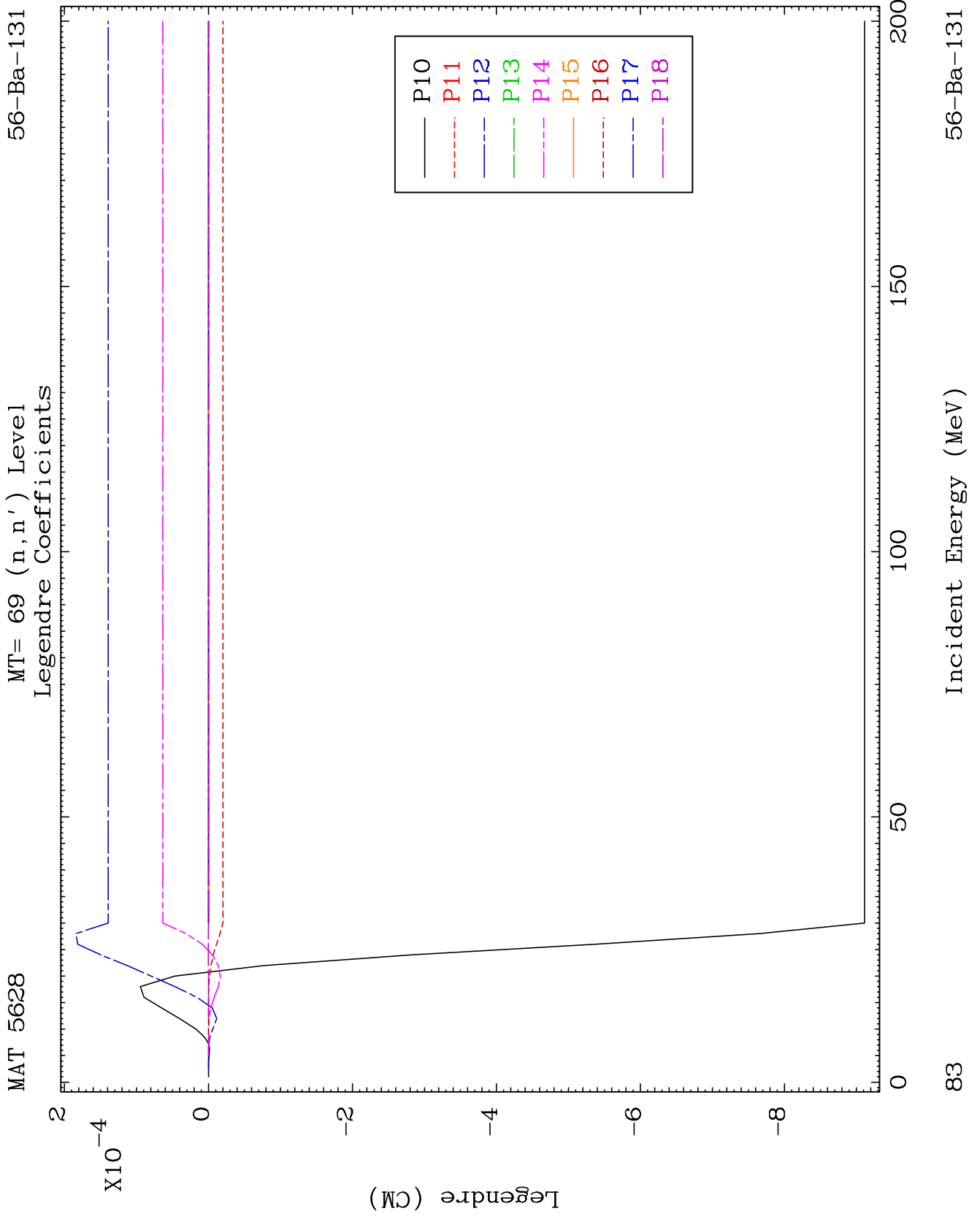
56-Ba-131



82

Incident Energy (MeV)

56-Ba-131

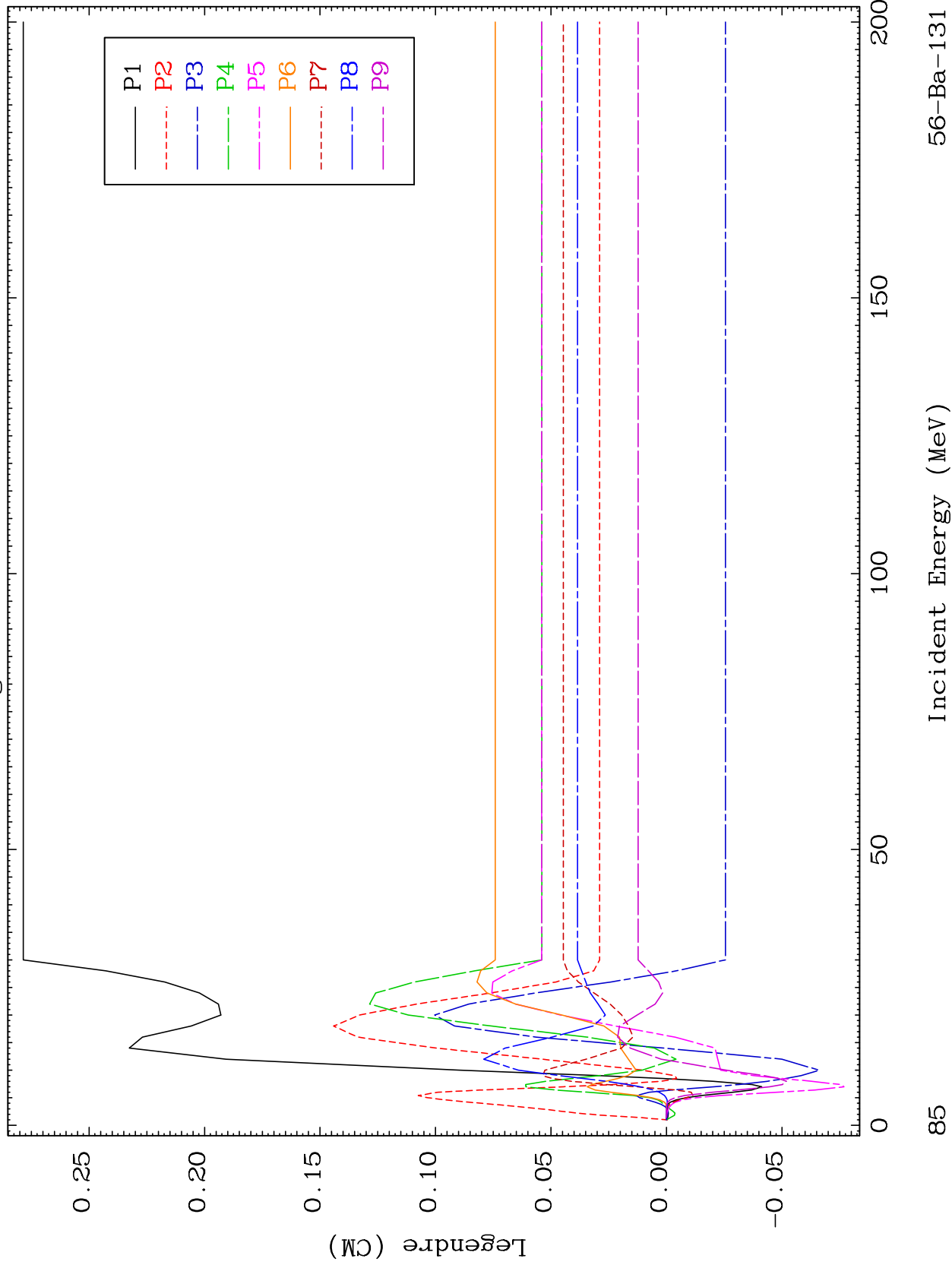




MAT 5628

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

56-Ba-131



56-Ba-131

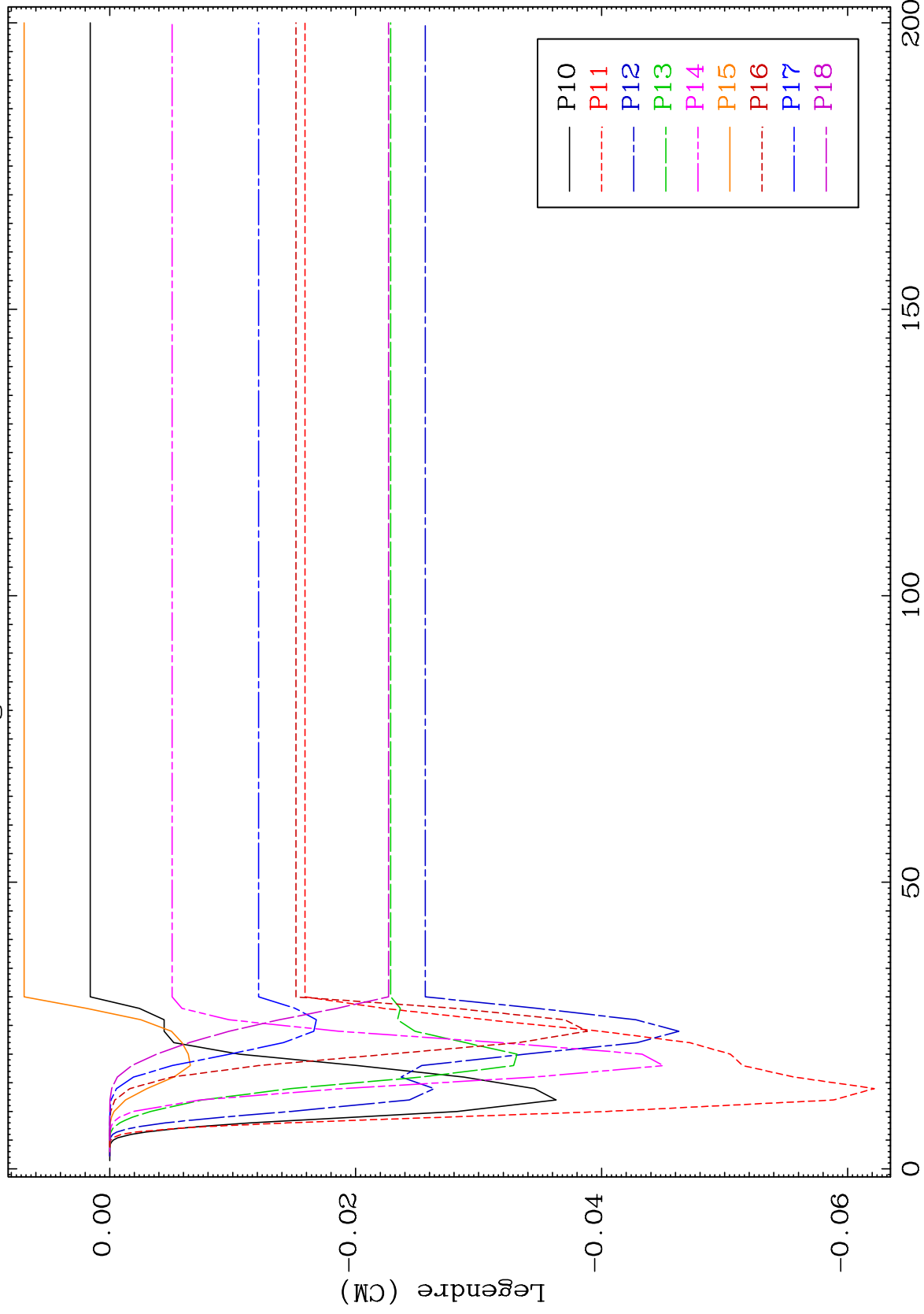
Incident Energy (MeV)

85

MAT 5628

56-Ba-131

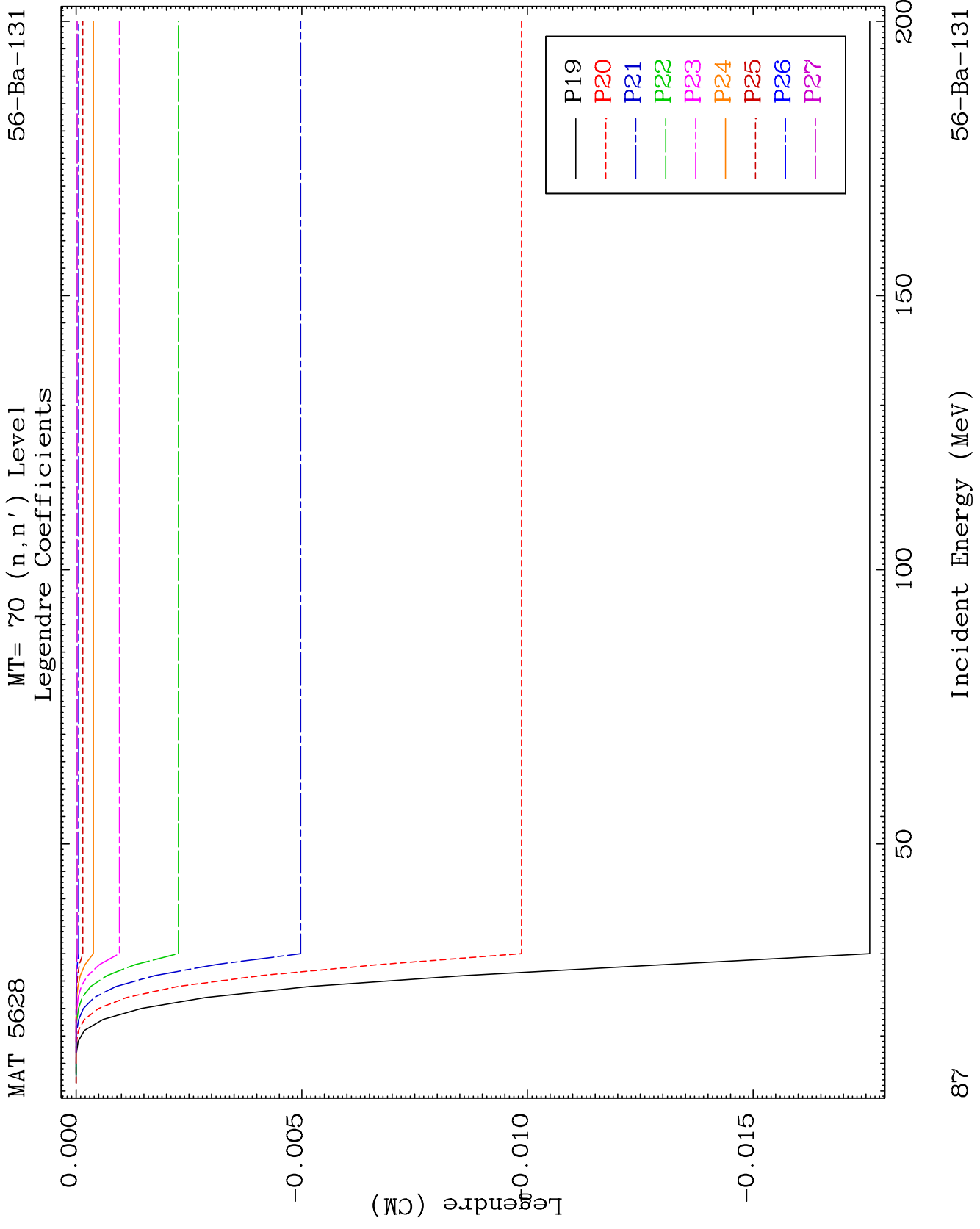
MT= 70 (n,n') Level  
Legendre Coefficients



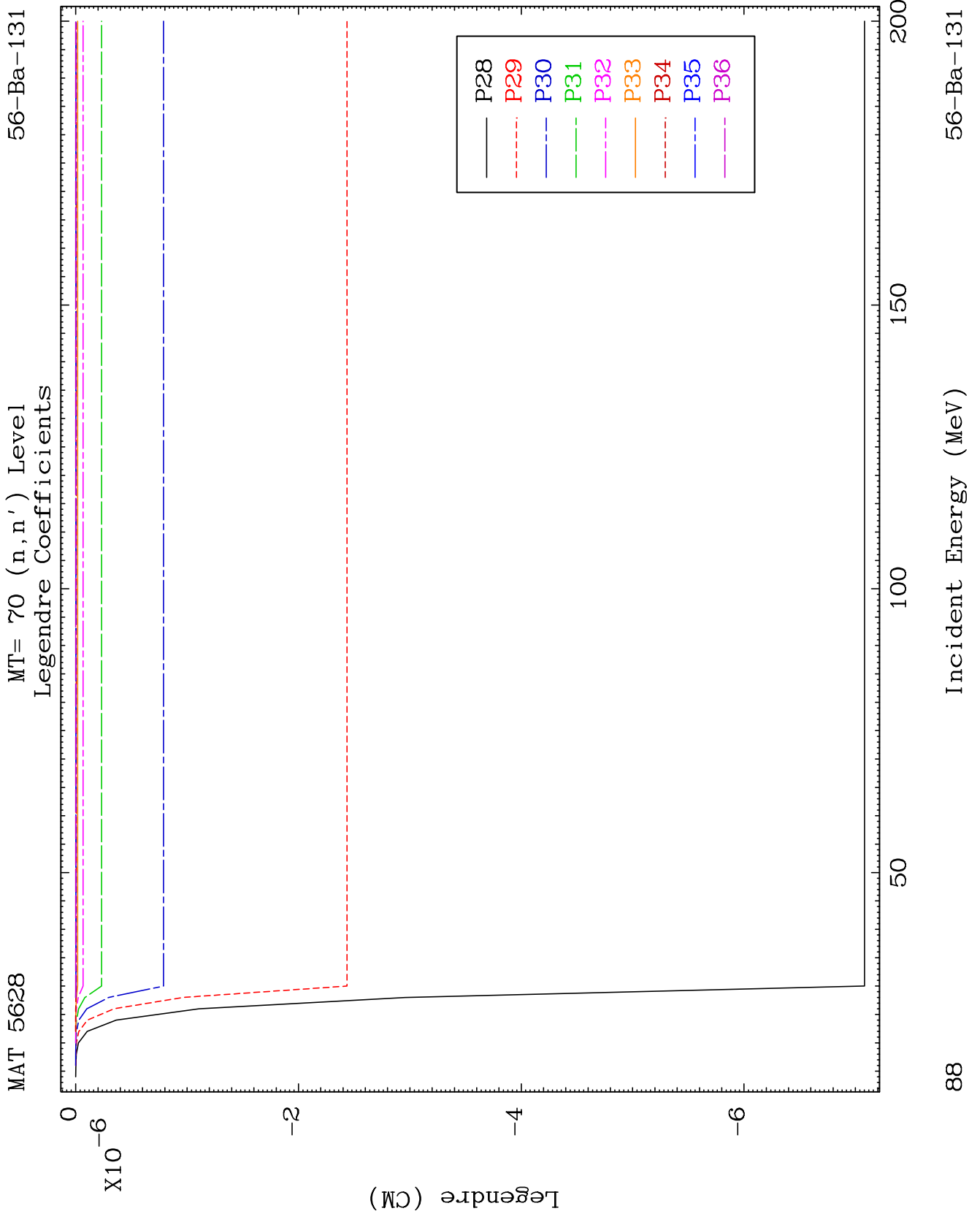
86

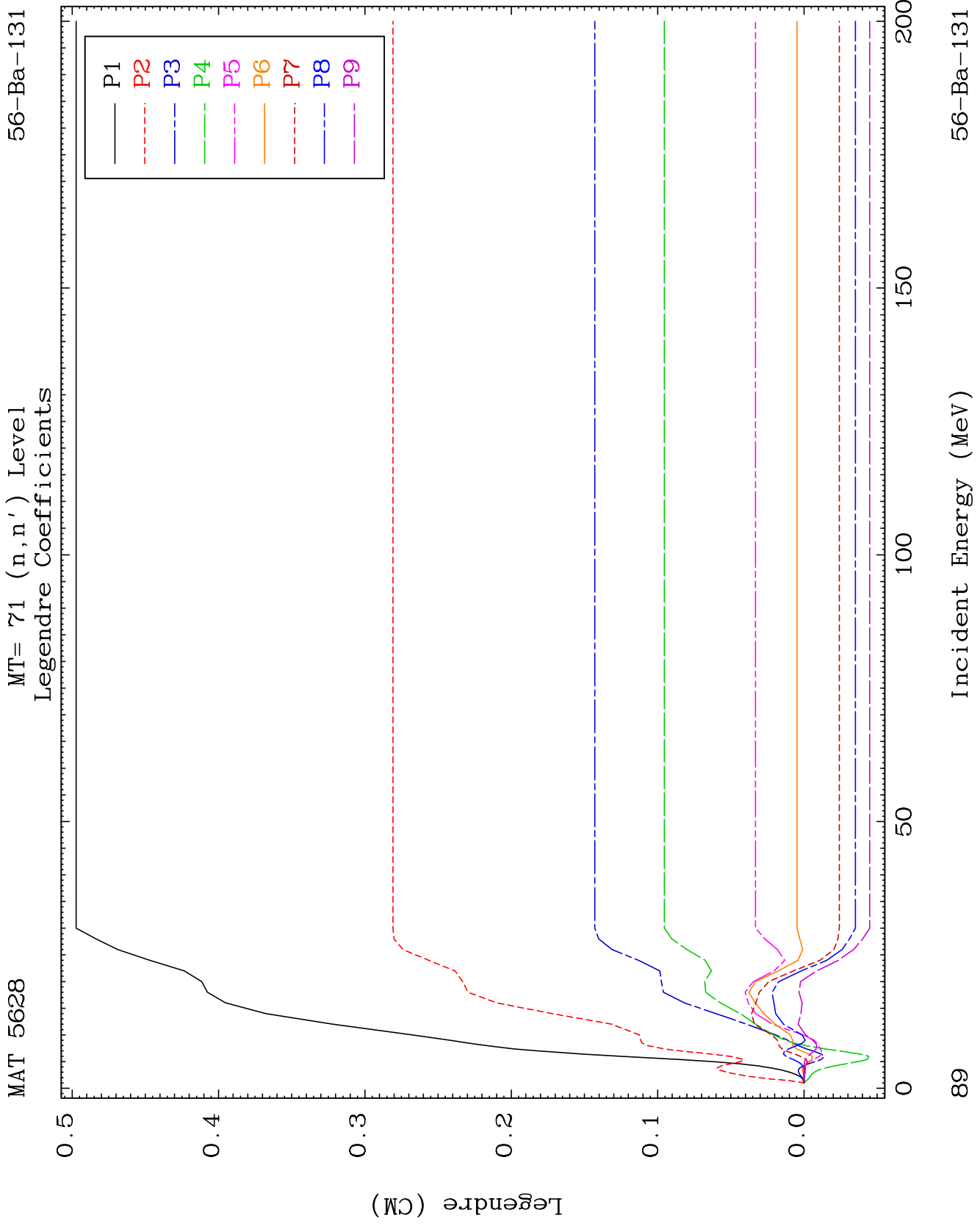
Incident Energy (MeV)

56-Ba-131





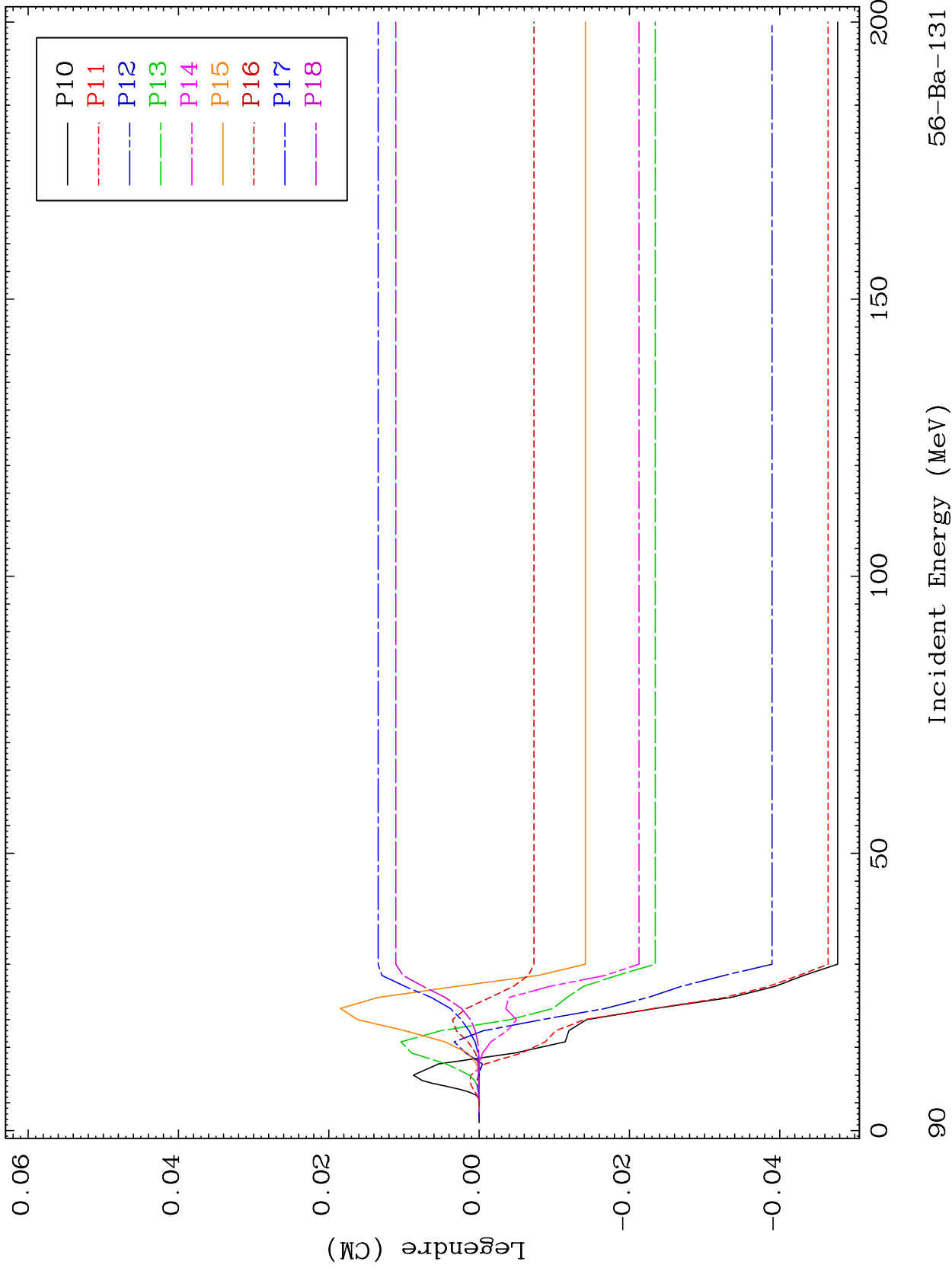




MAT 5628

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

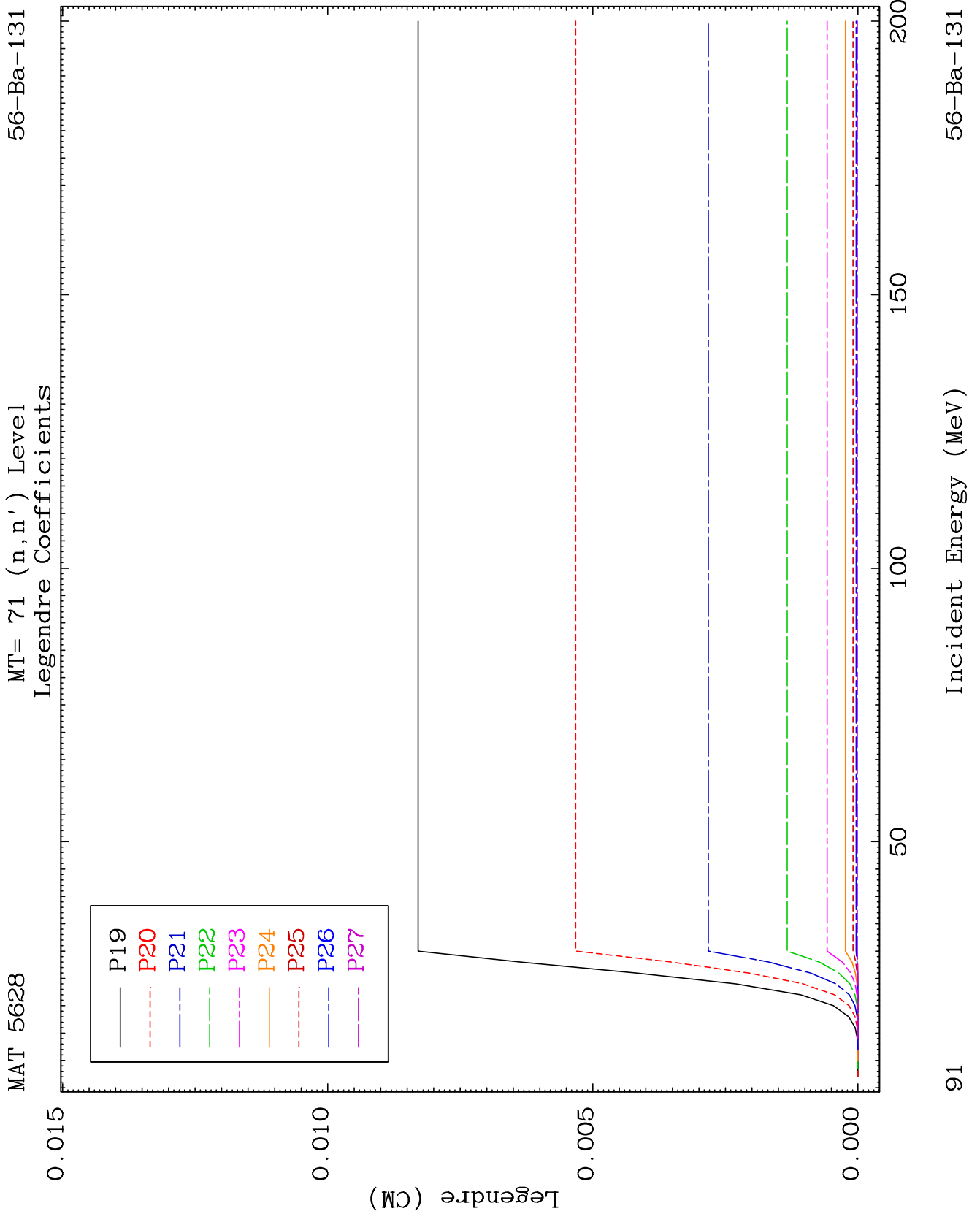
56-Ba-131



56-Ba-131

Incident Energy (MeV)

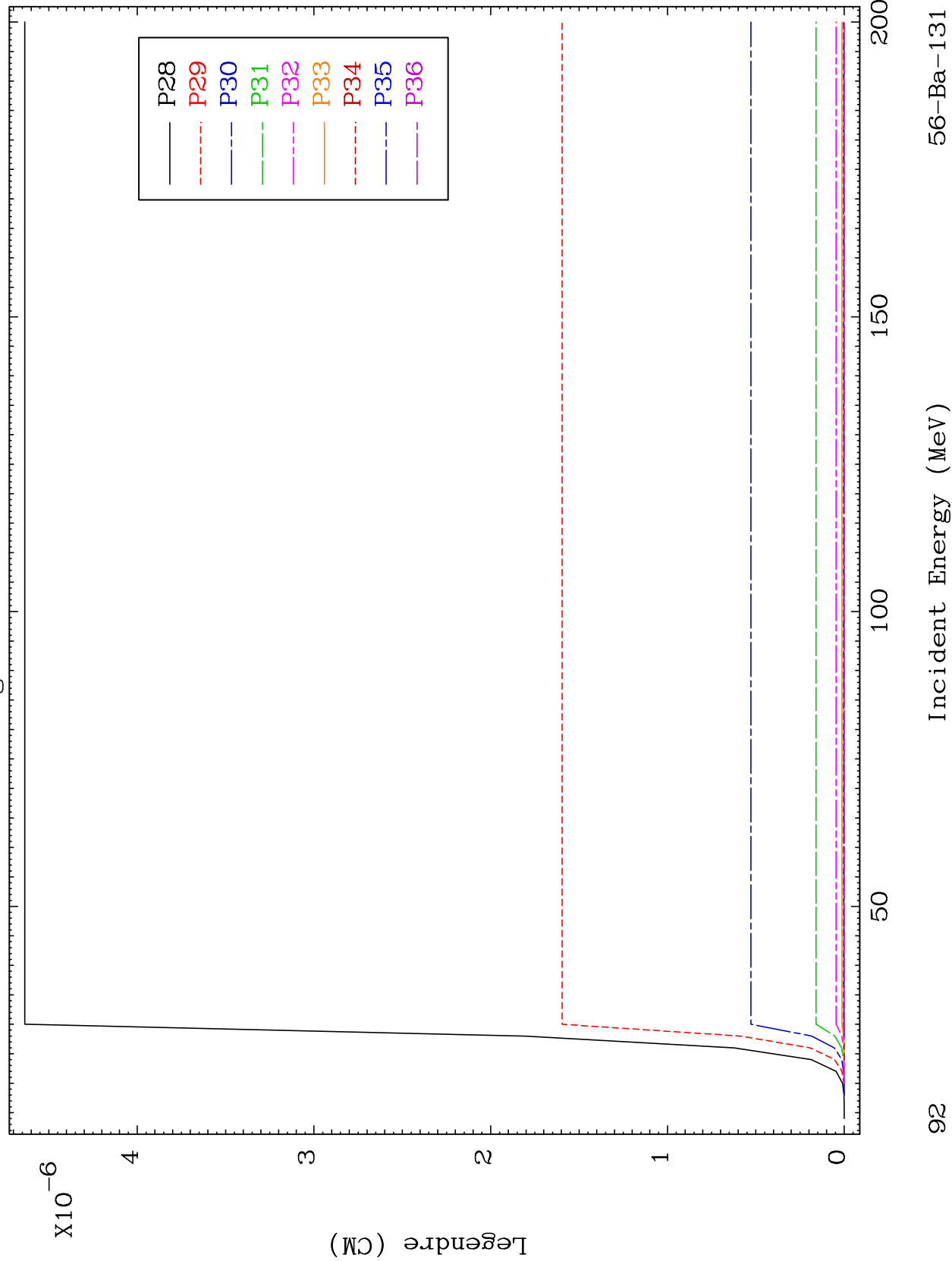
90



MAT 5628

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

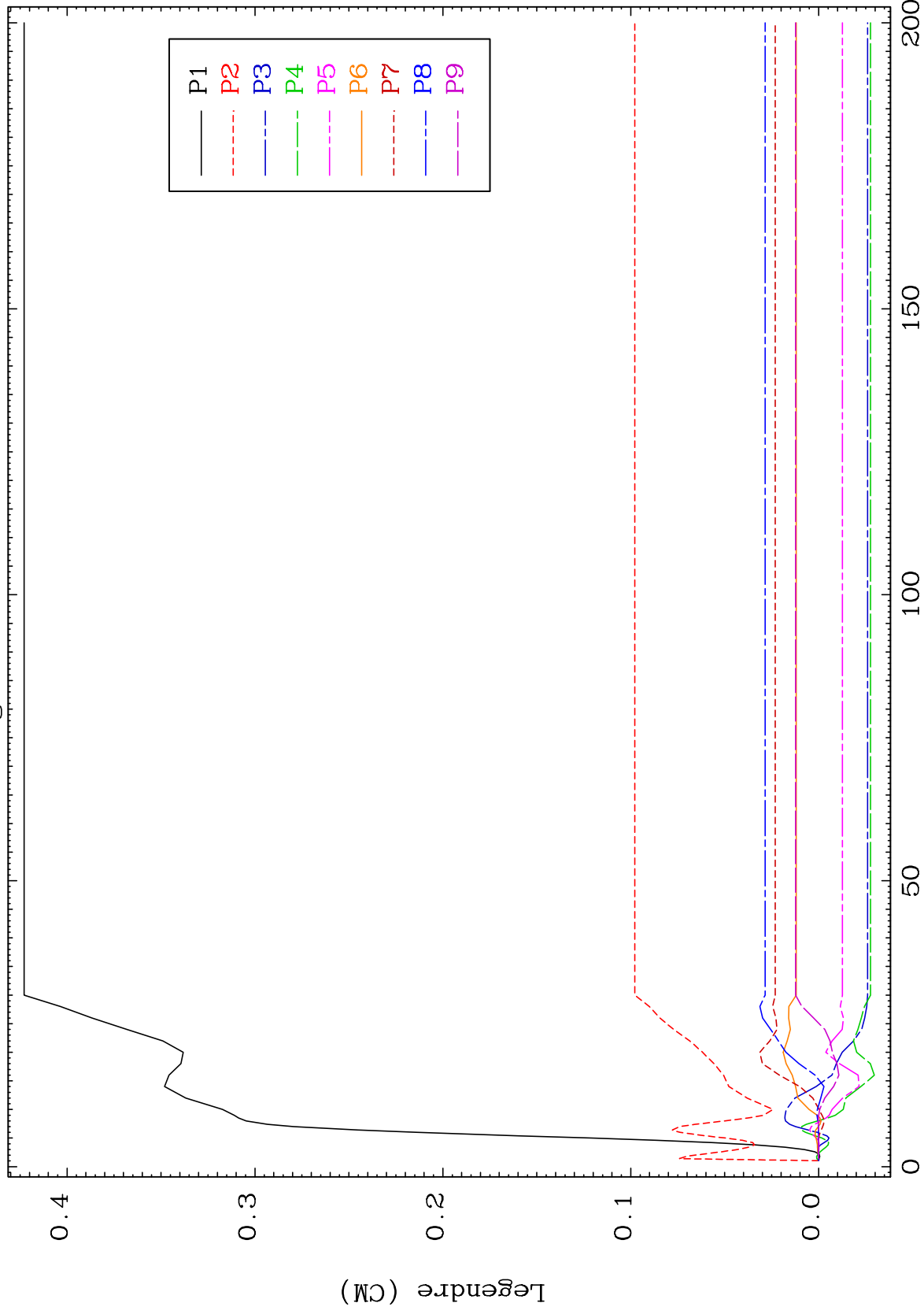
56-Ba-131



MAT 5628

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

56-Ba-131



93

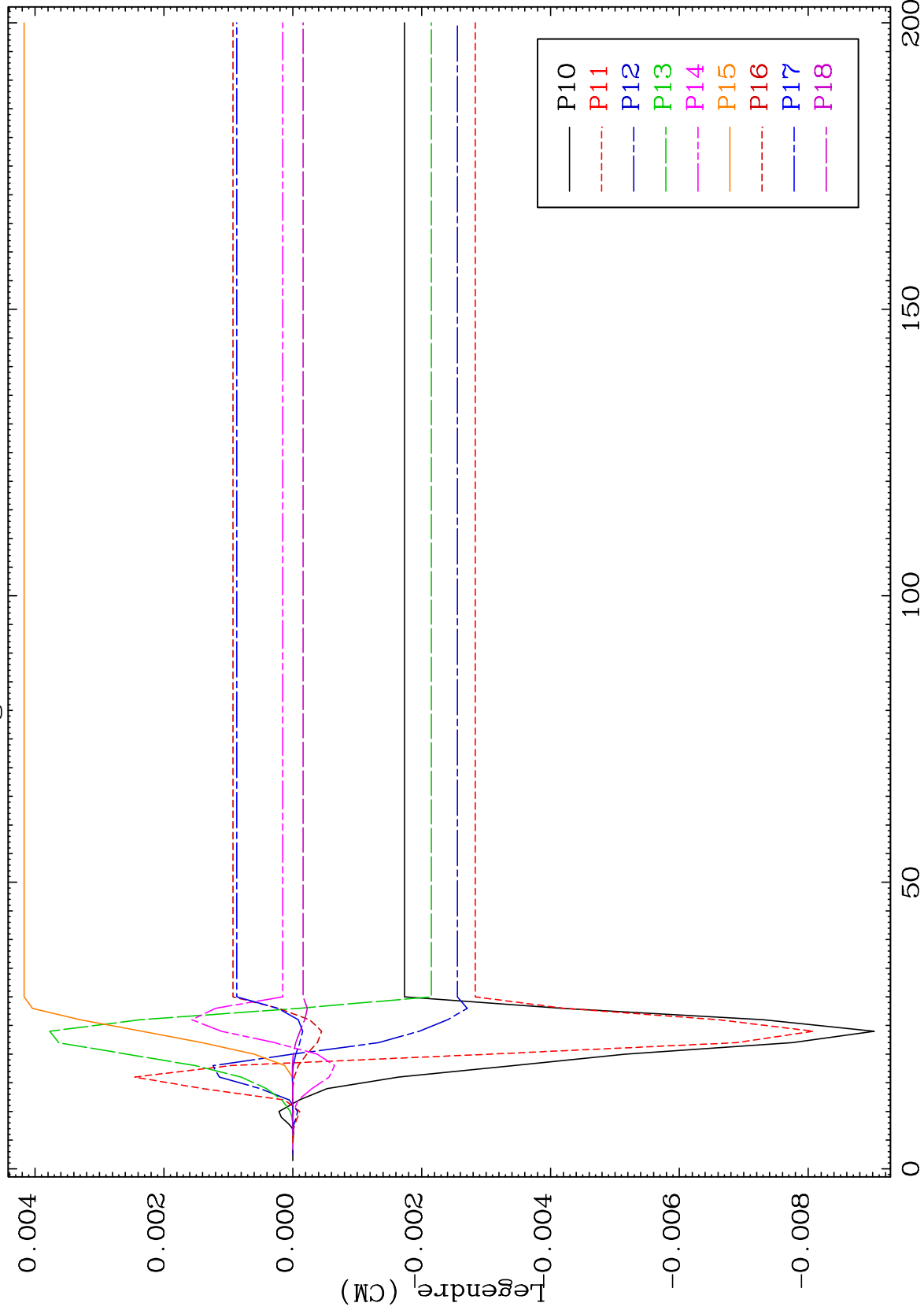
Incident Energy (MeV)

56-Ba-131

MAT 5628

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

56-Ba-131



94

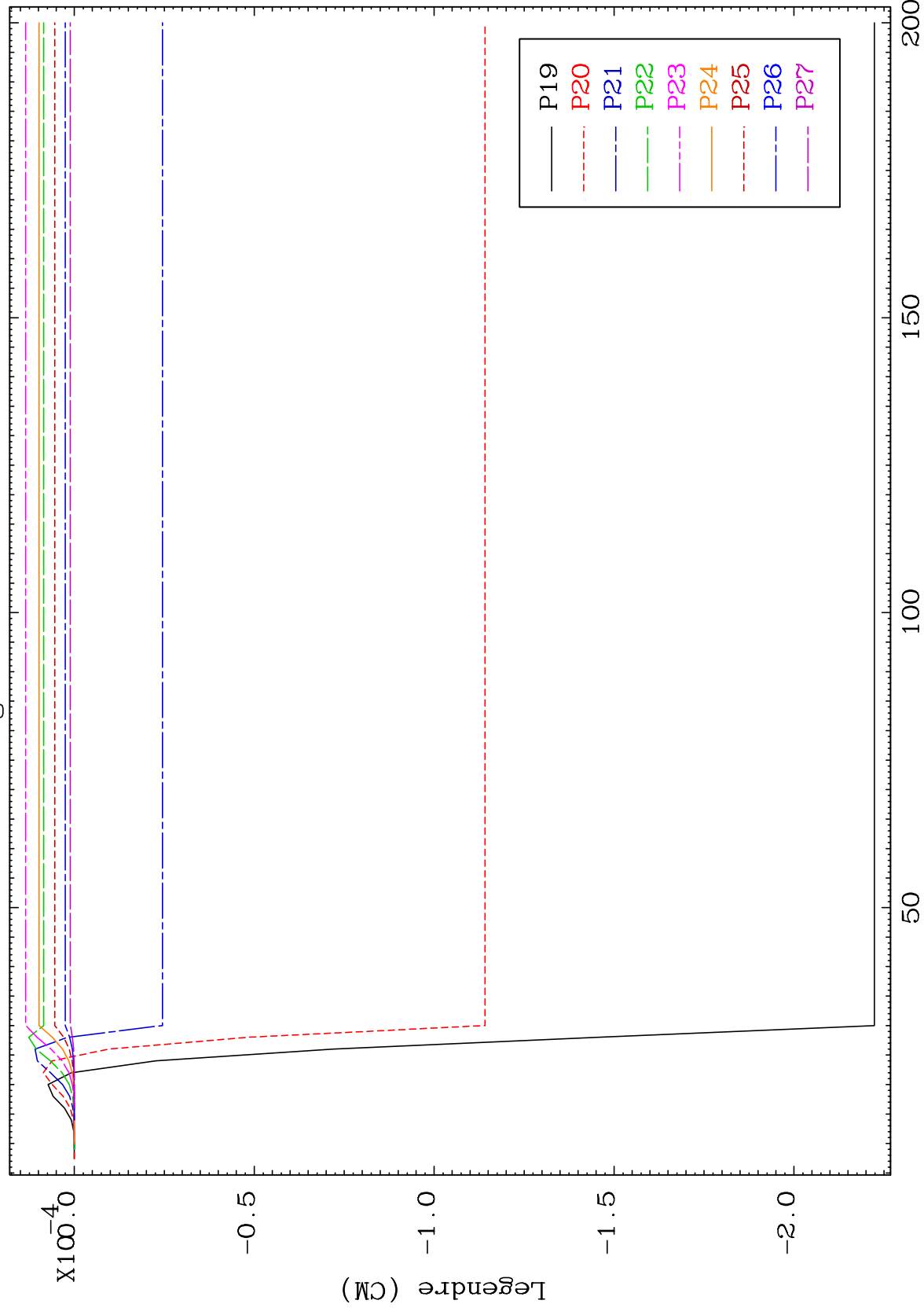
Incident Energy (MeV)

56-Ba-131

MAT 5628

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

56-Ba-131



95

Incident Energy (MeV)

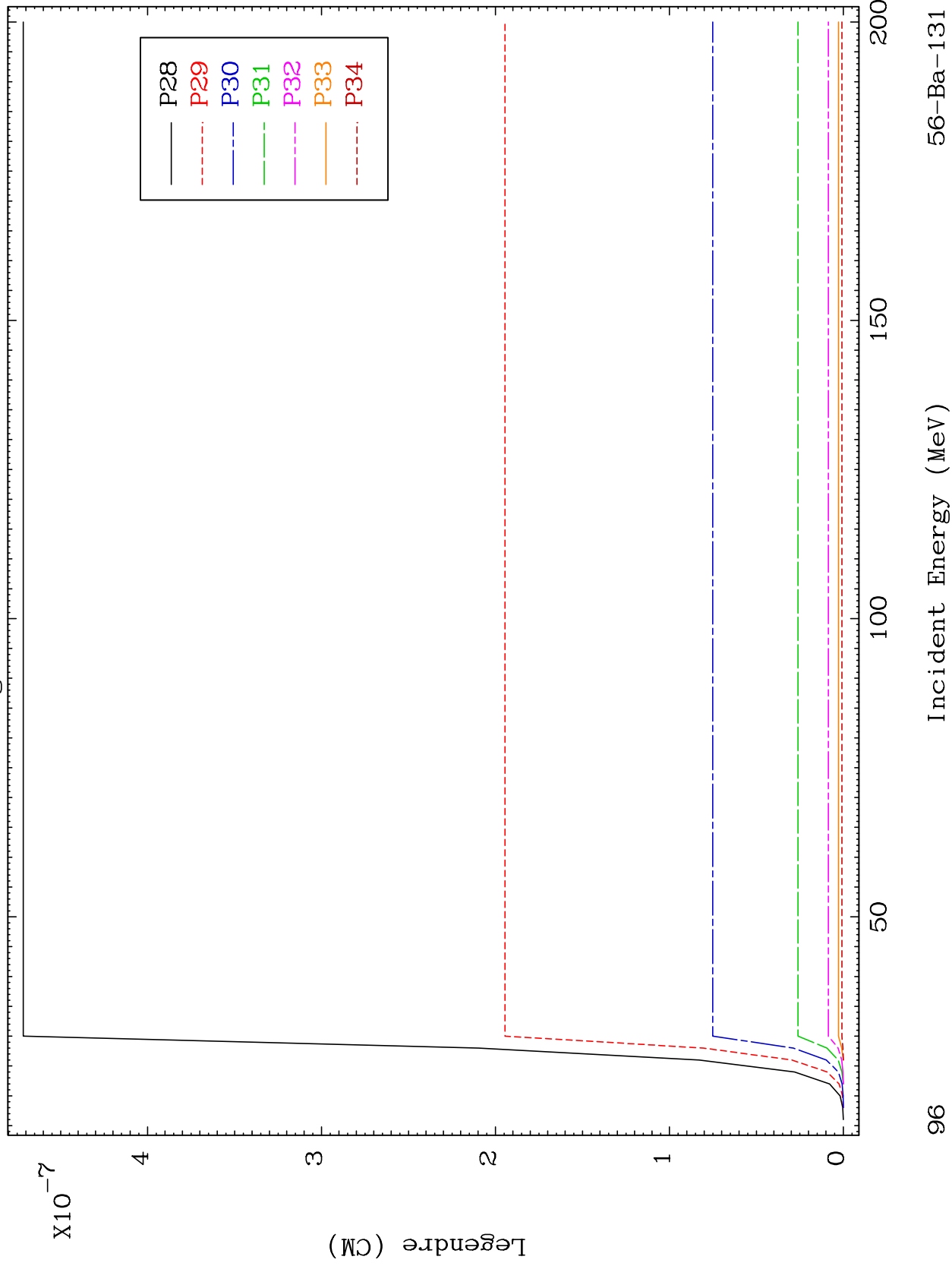
56-Ba-131



MAT 5628

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

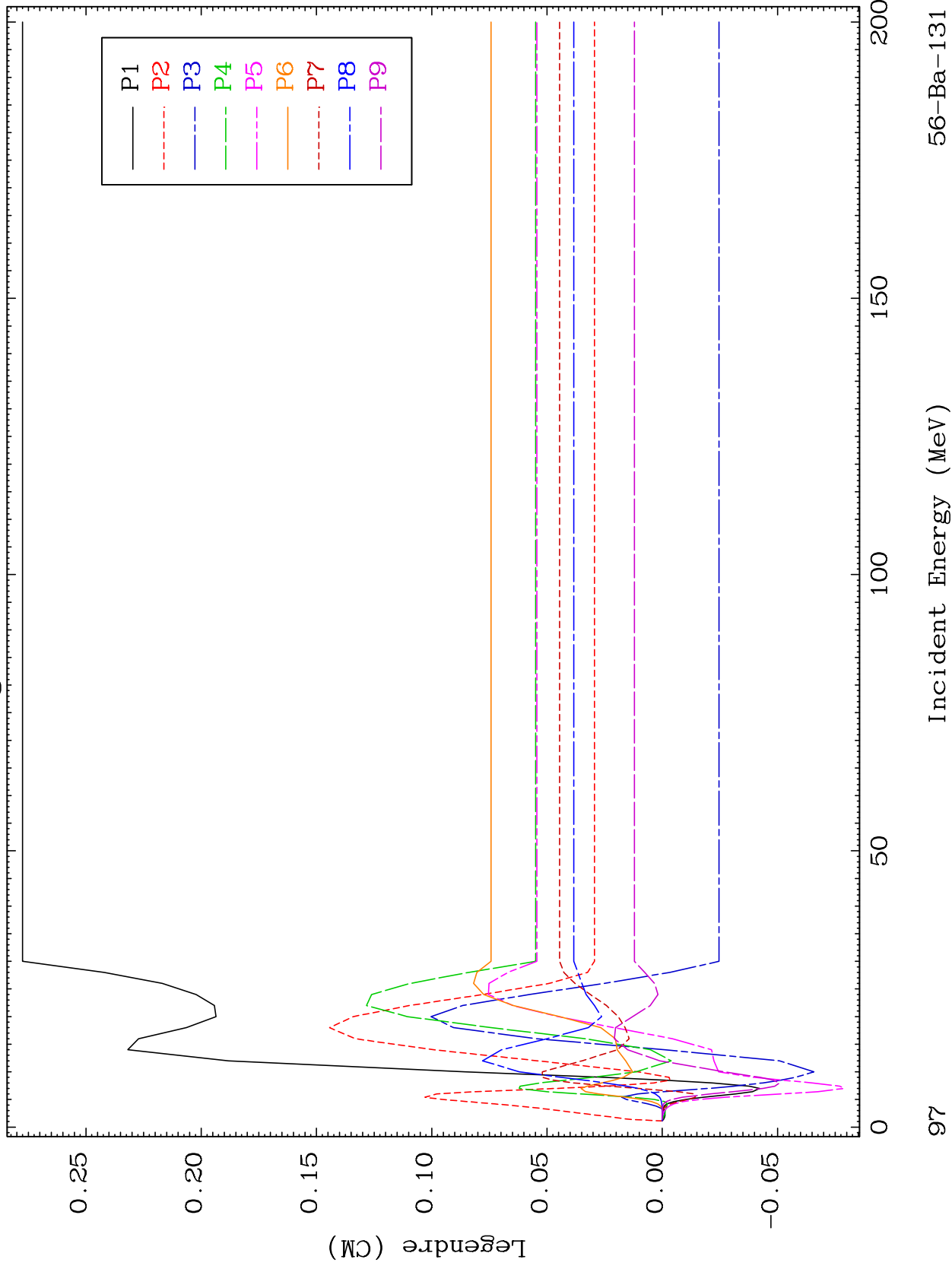
56-Ba-131



MAT 5628

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

56-Ba-131



56-Ba-131

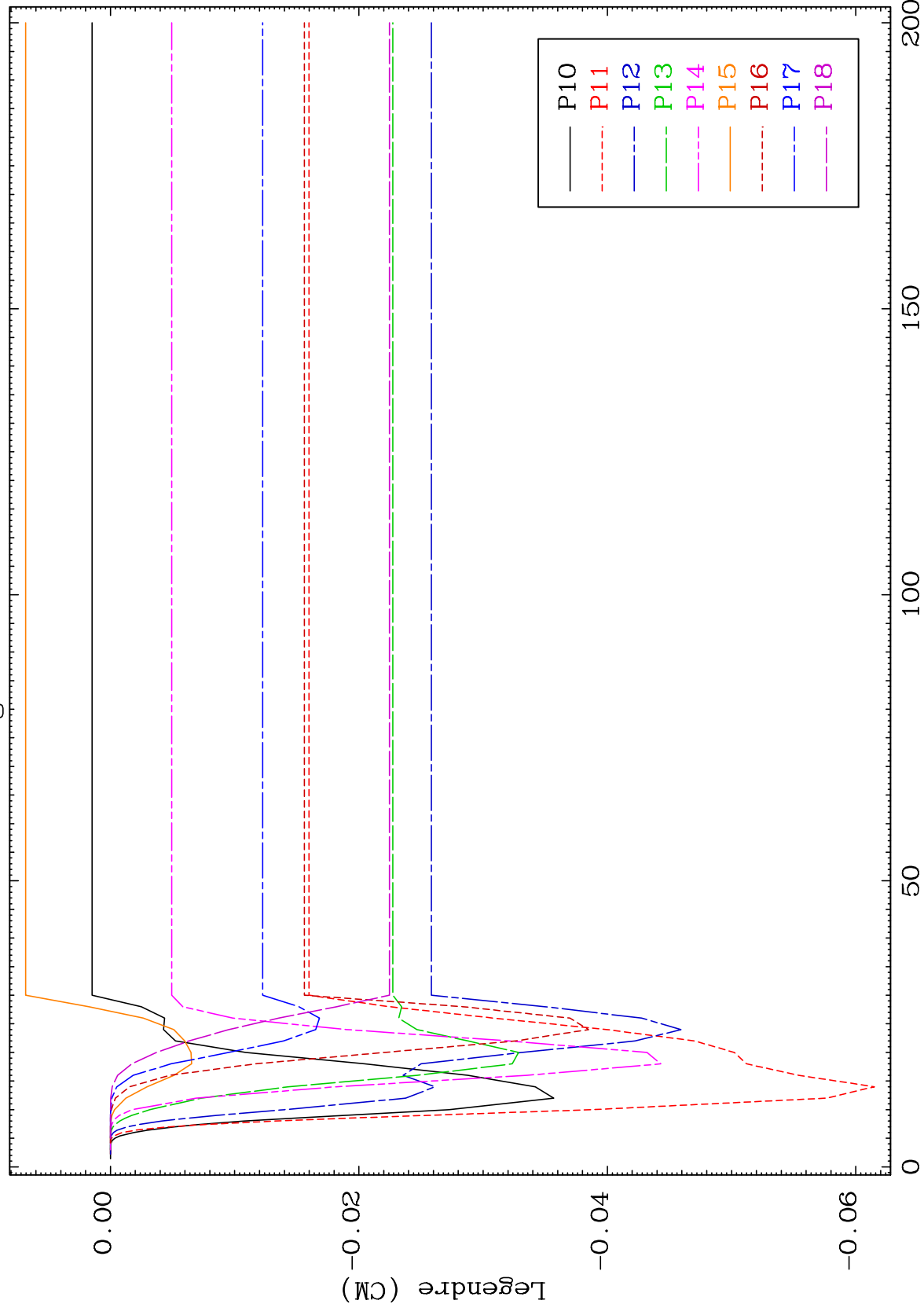
Incident Energy (MeV)

97

MAT 5628

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

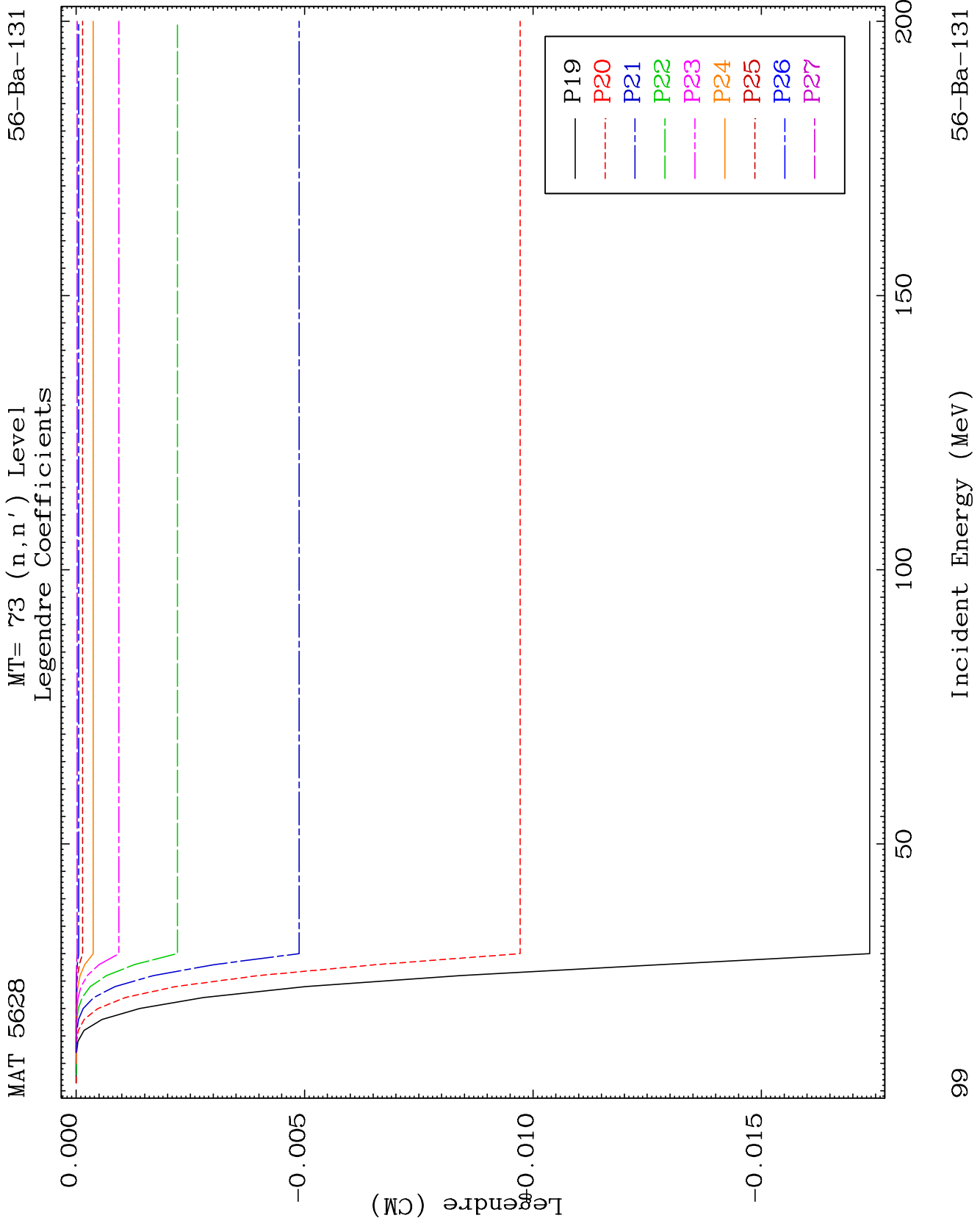
56-Ba-131

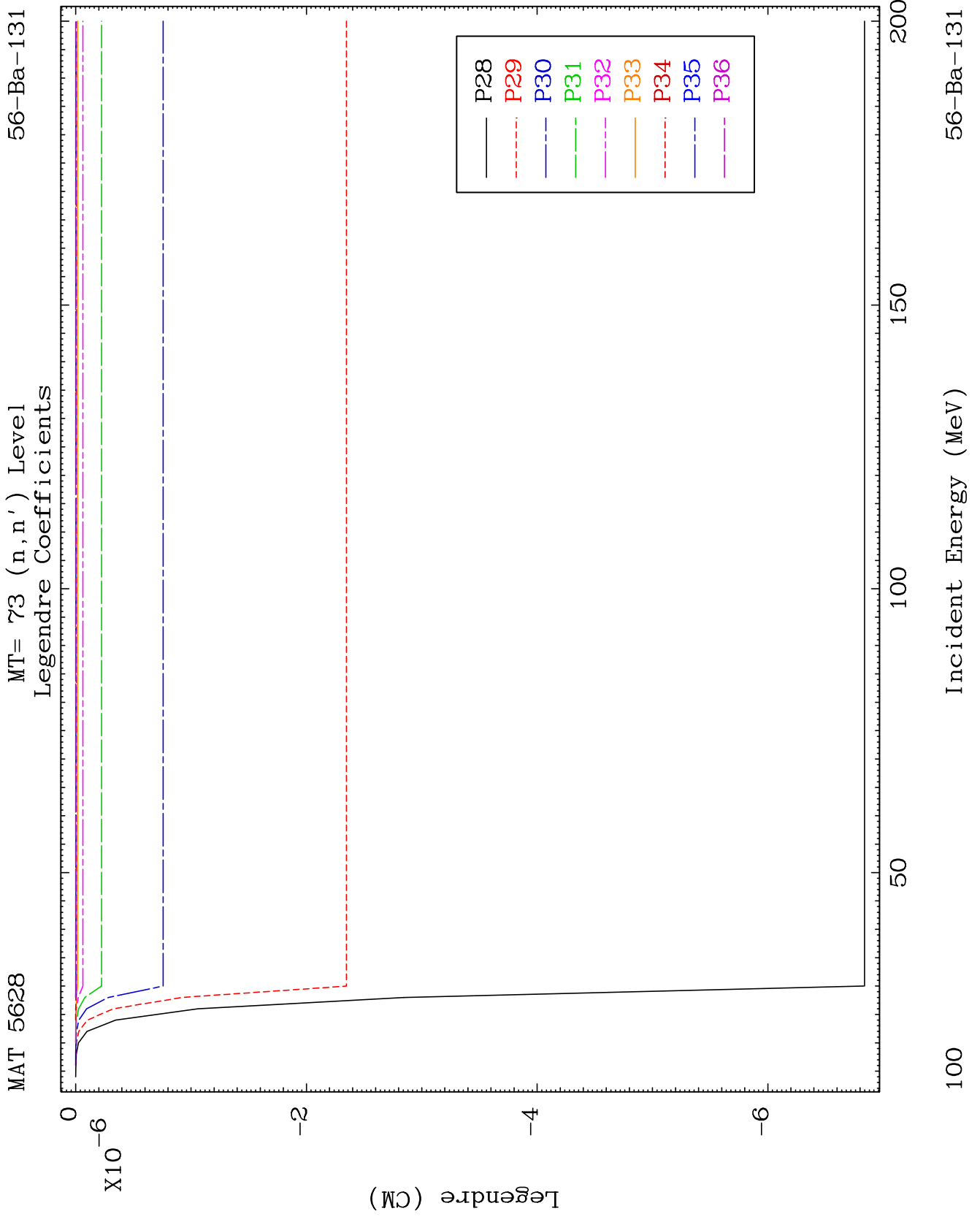


98

Incident Energy (MeV)

56-Ba-131

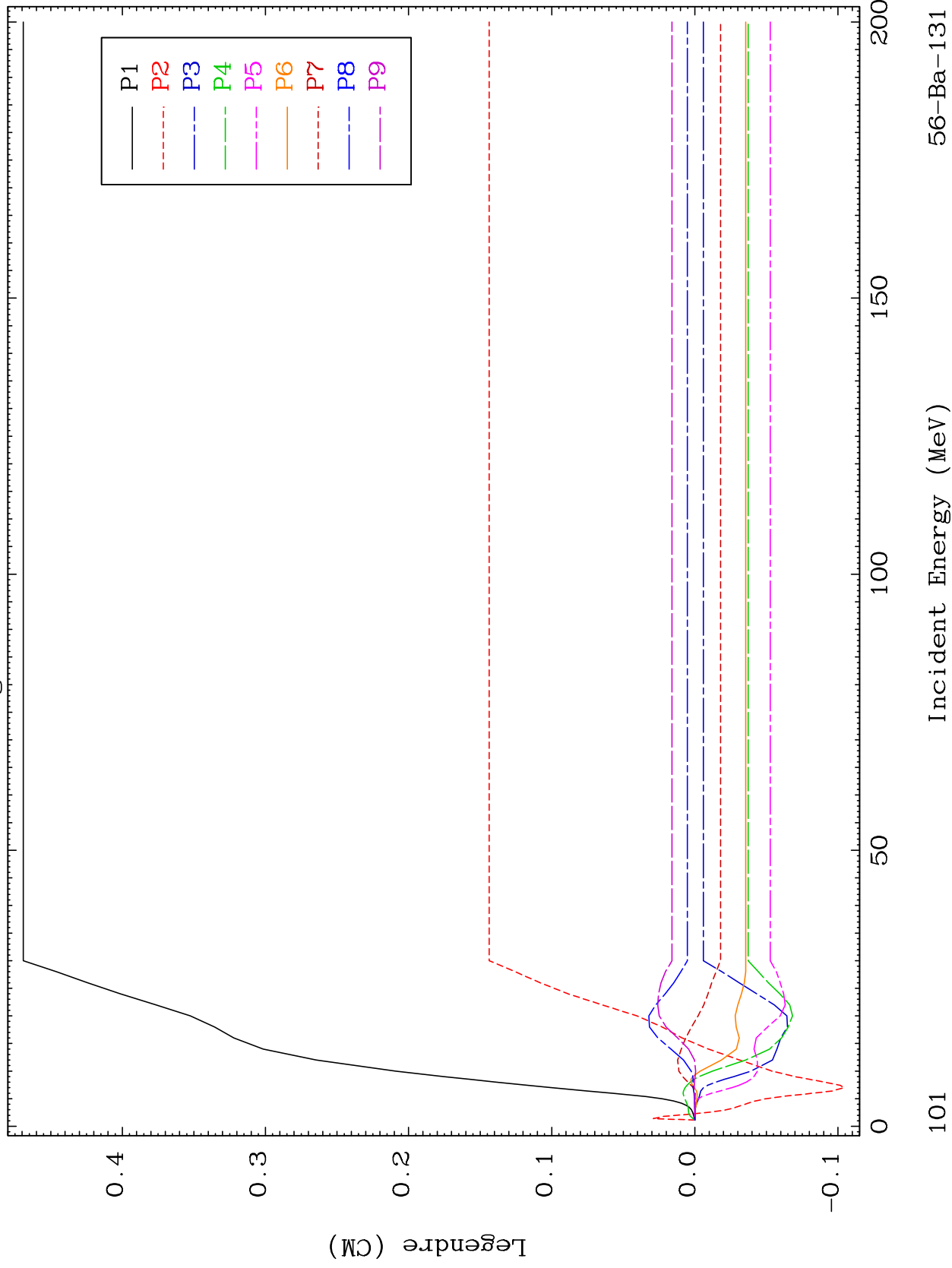




MAT 5628

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

56-Ba-131



56-Ba-131

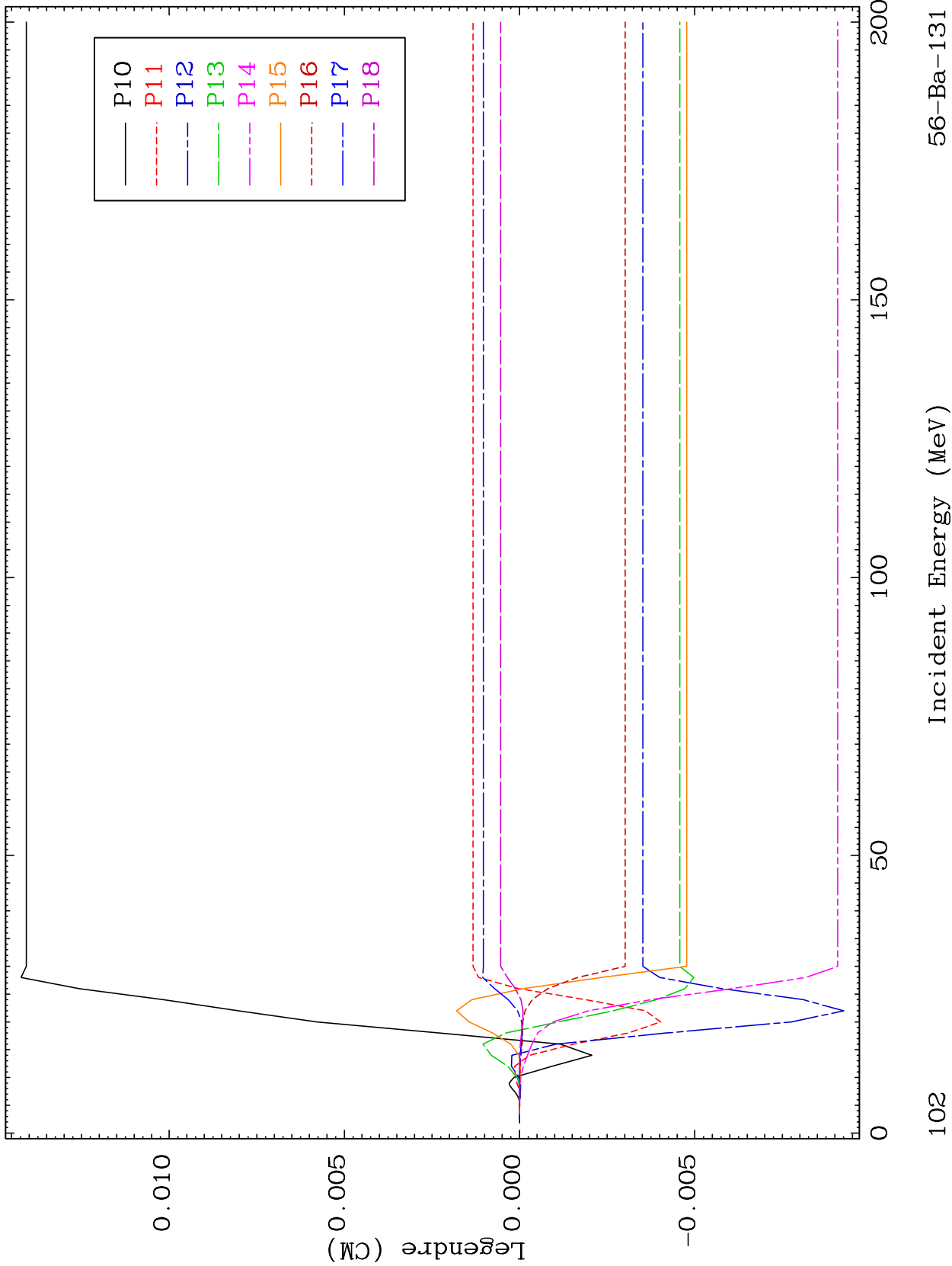
Incident Energy (MeV)

101

MAT 5628

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

56-Ba-131



102

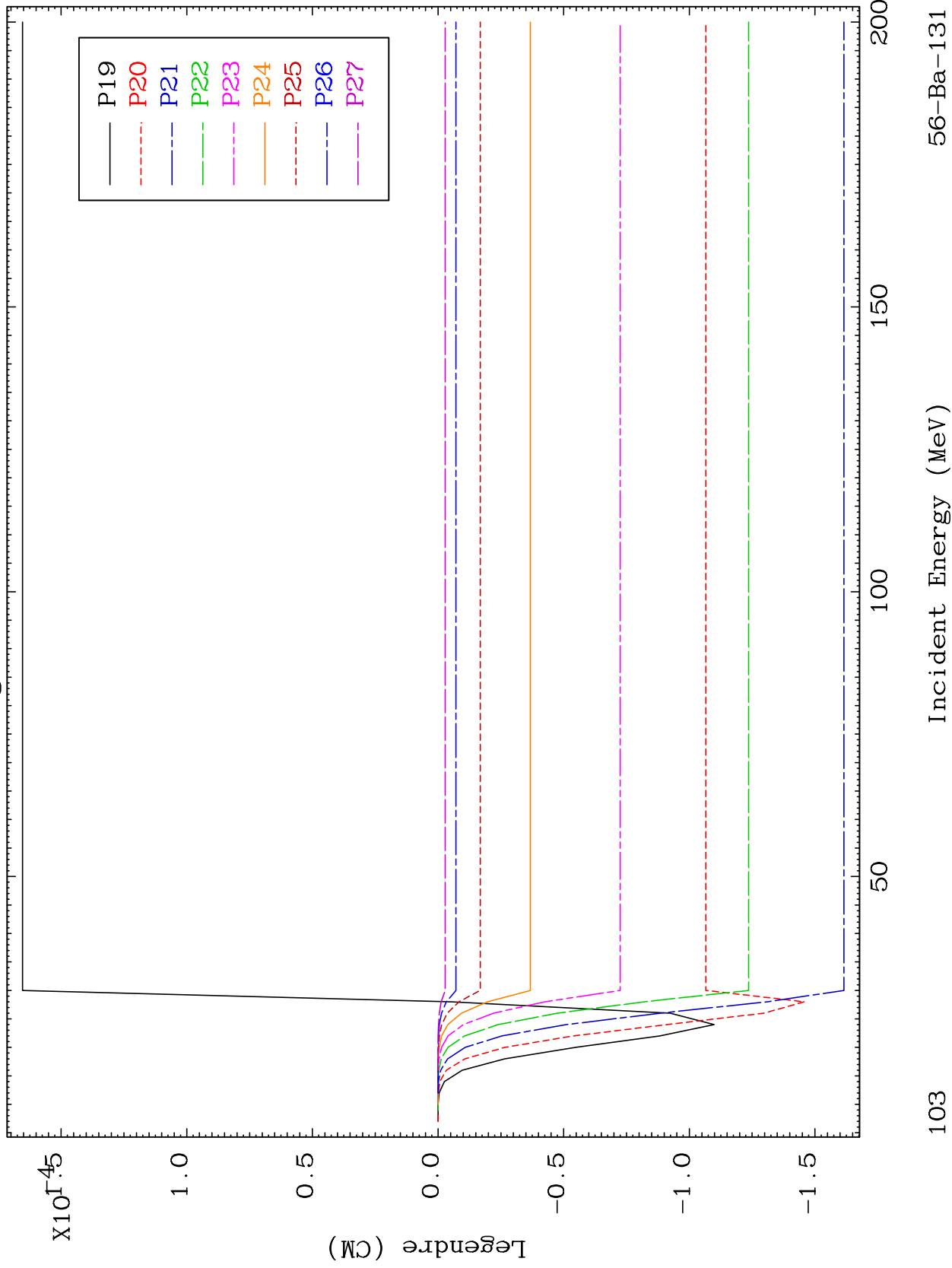
Incident Energy (MeV)

56-Ba-131

MAT 5628

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

56-Ba-131

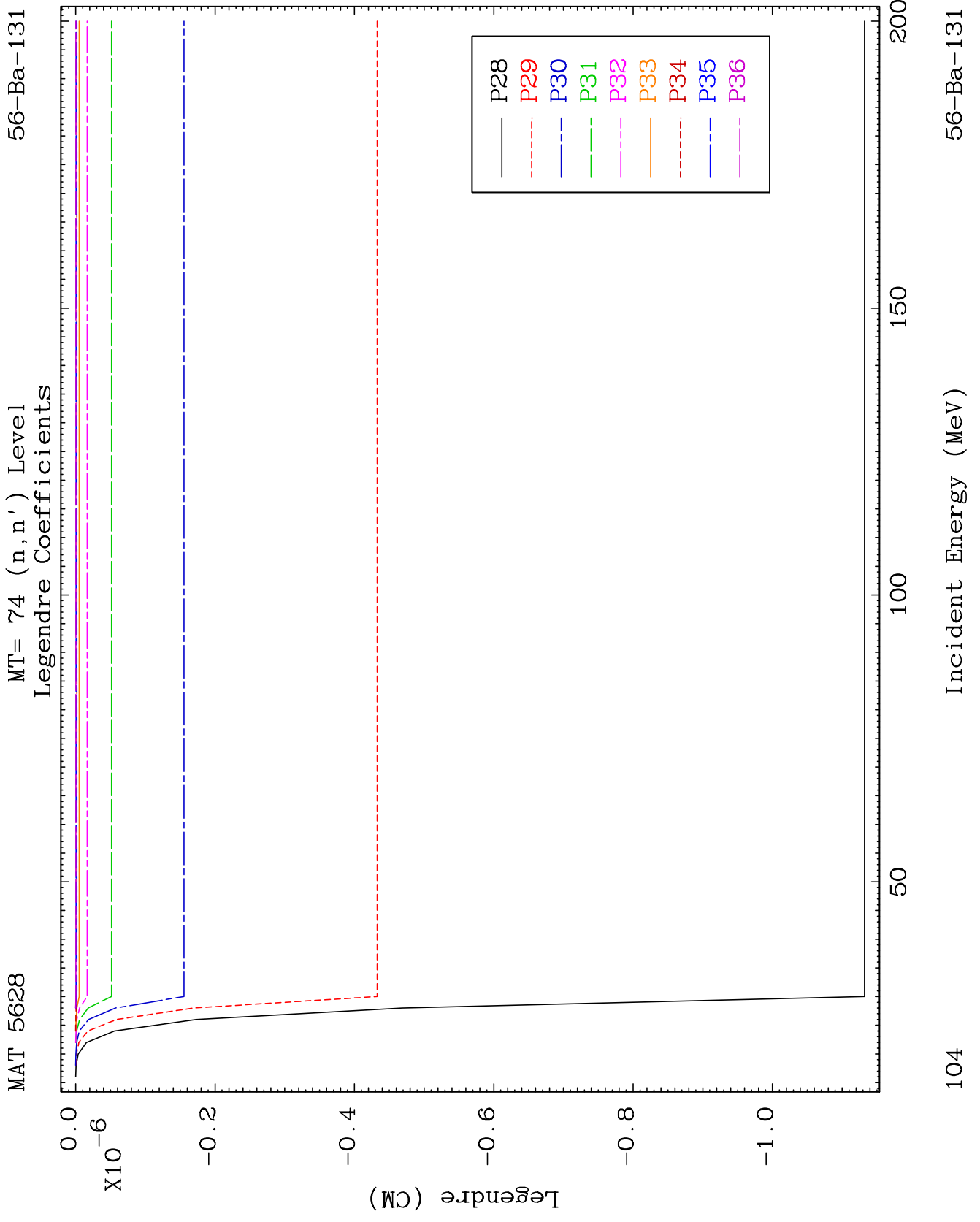


103

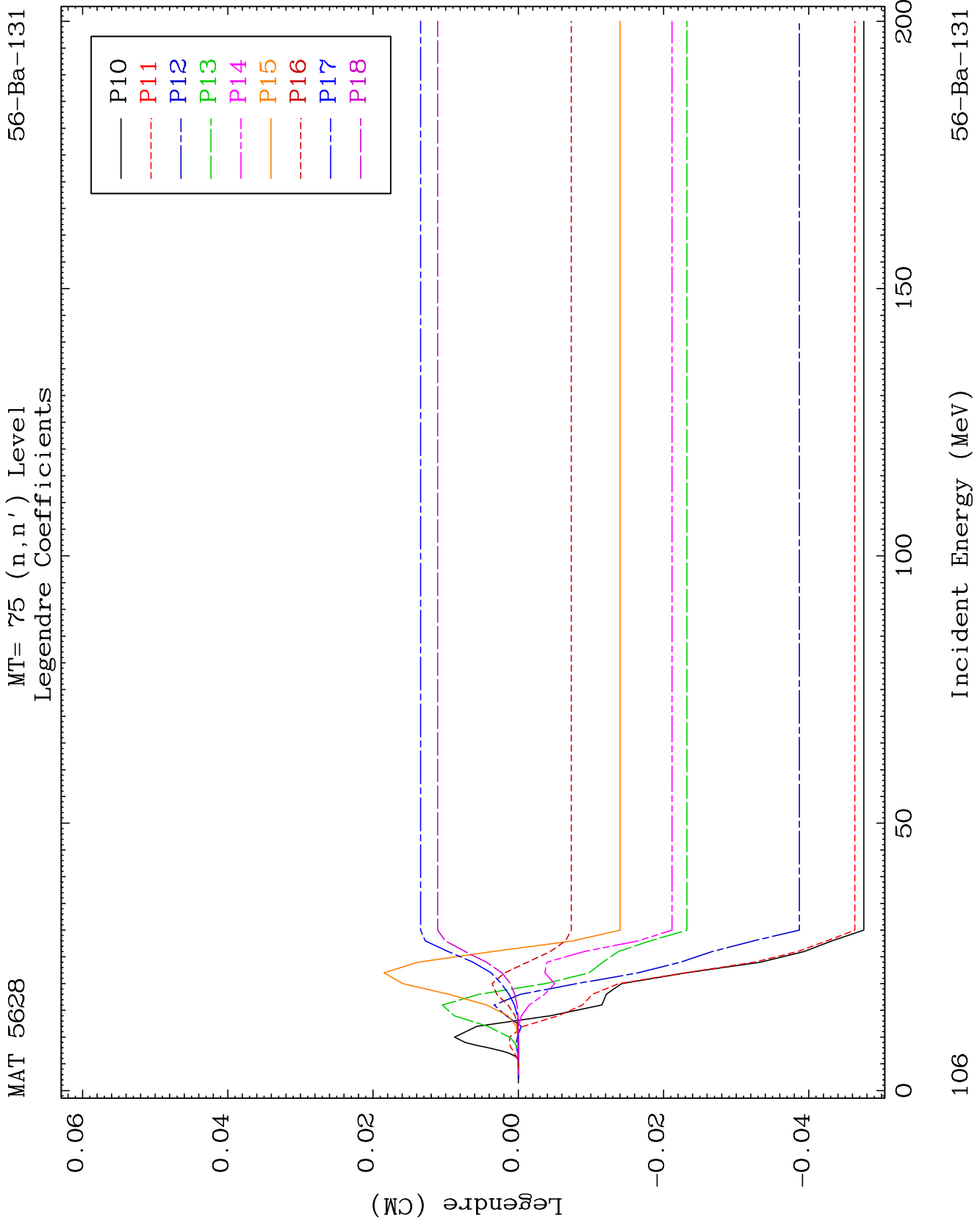
Incident Energy (MeV)

56-Ba-131





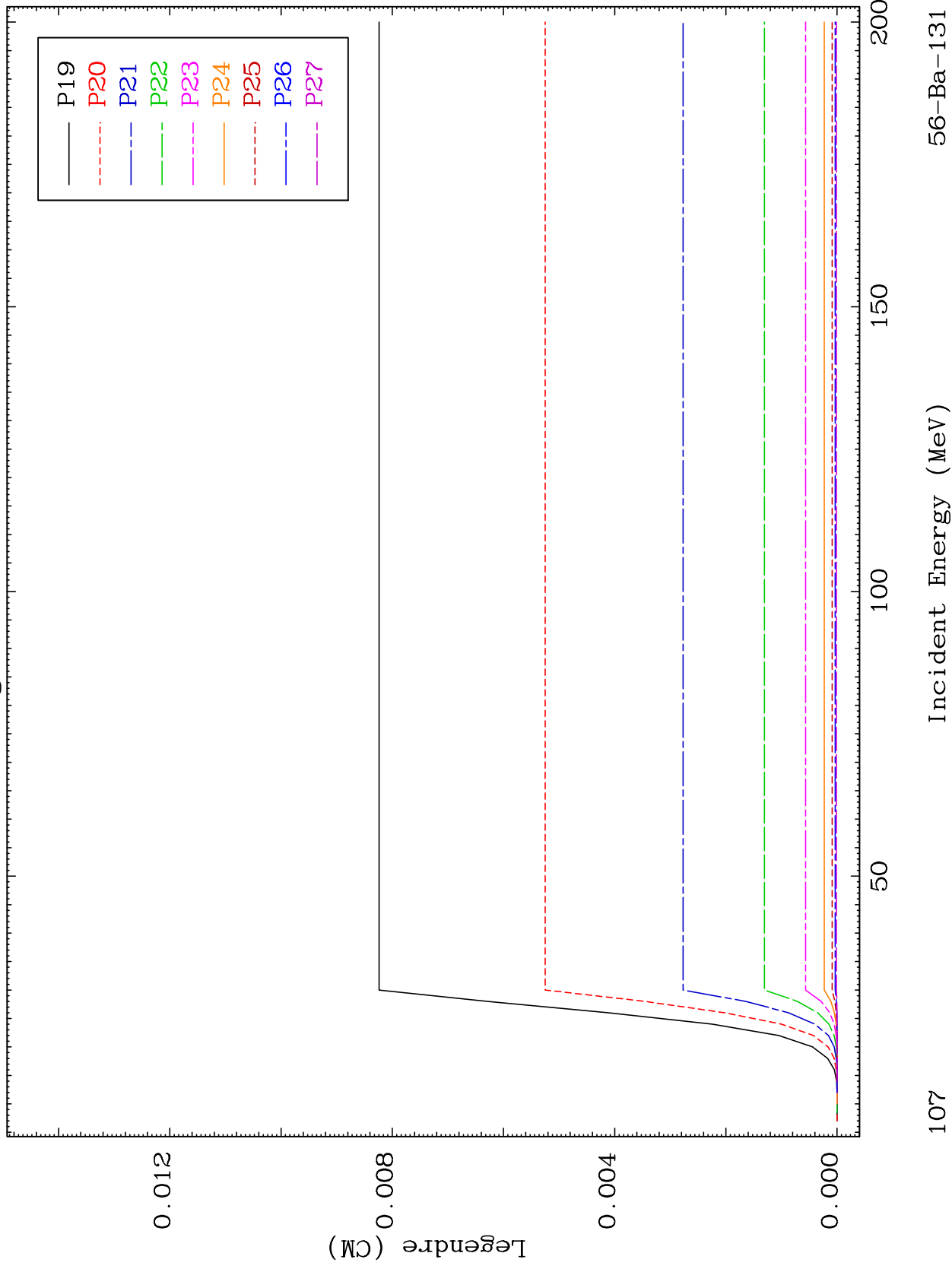




MAT 5628

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

56-Ba-131



107

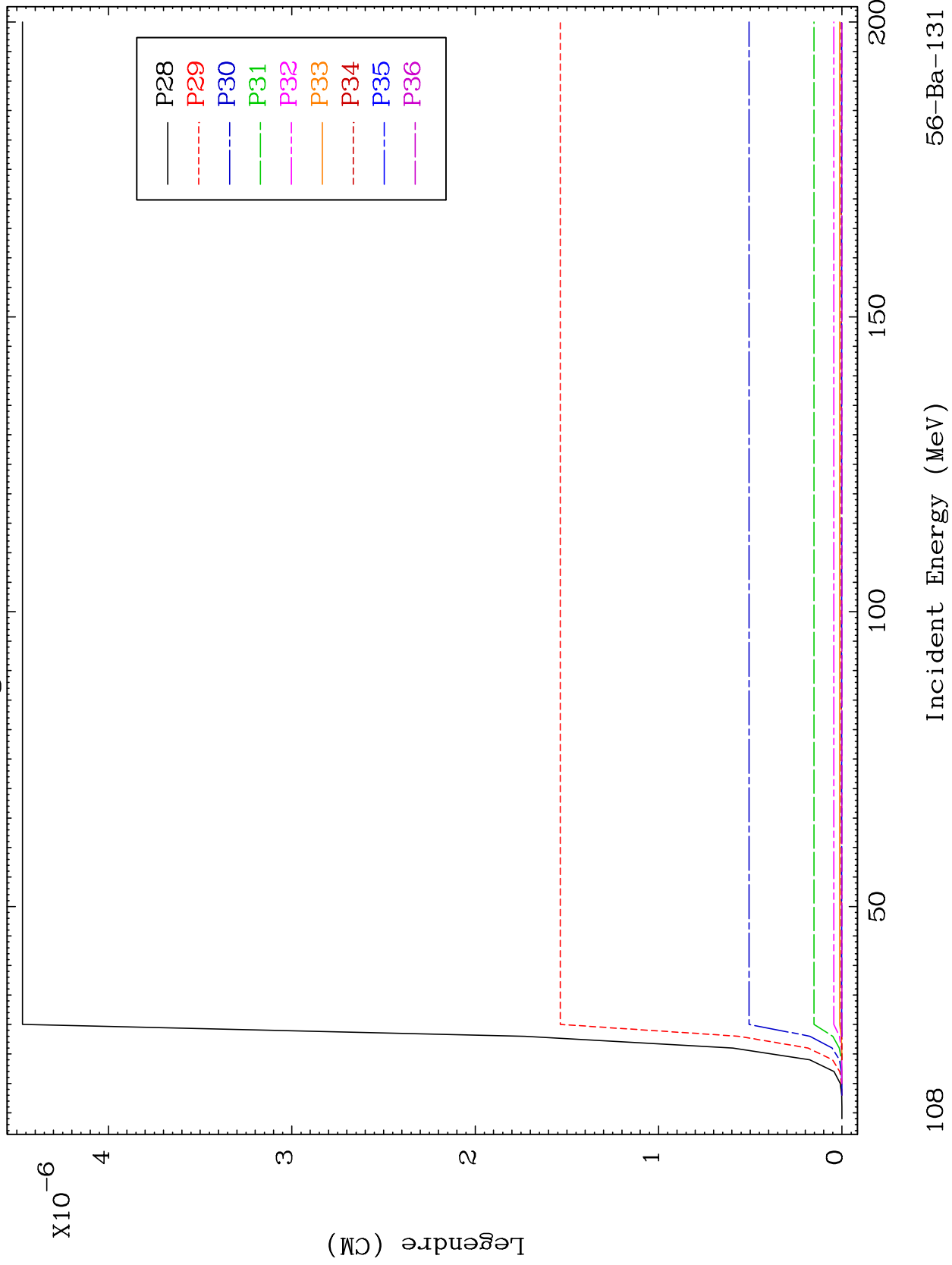
Incident Energy (MeV)

56-Ba-131

MAT 5628

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

56-Ba-131



108

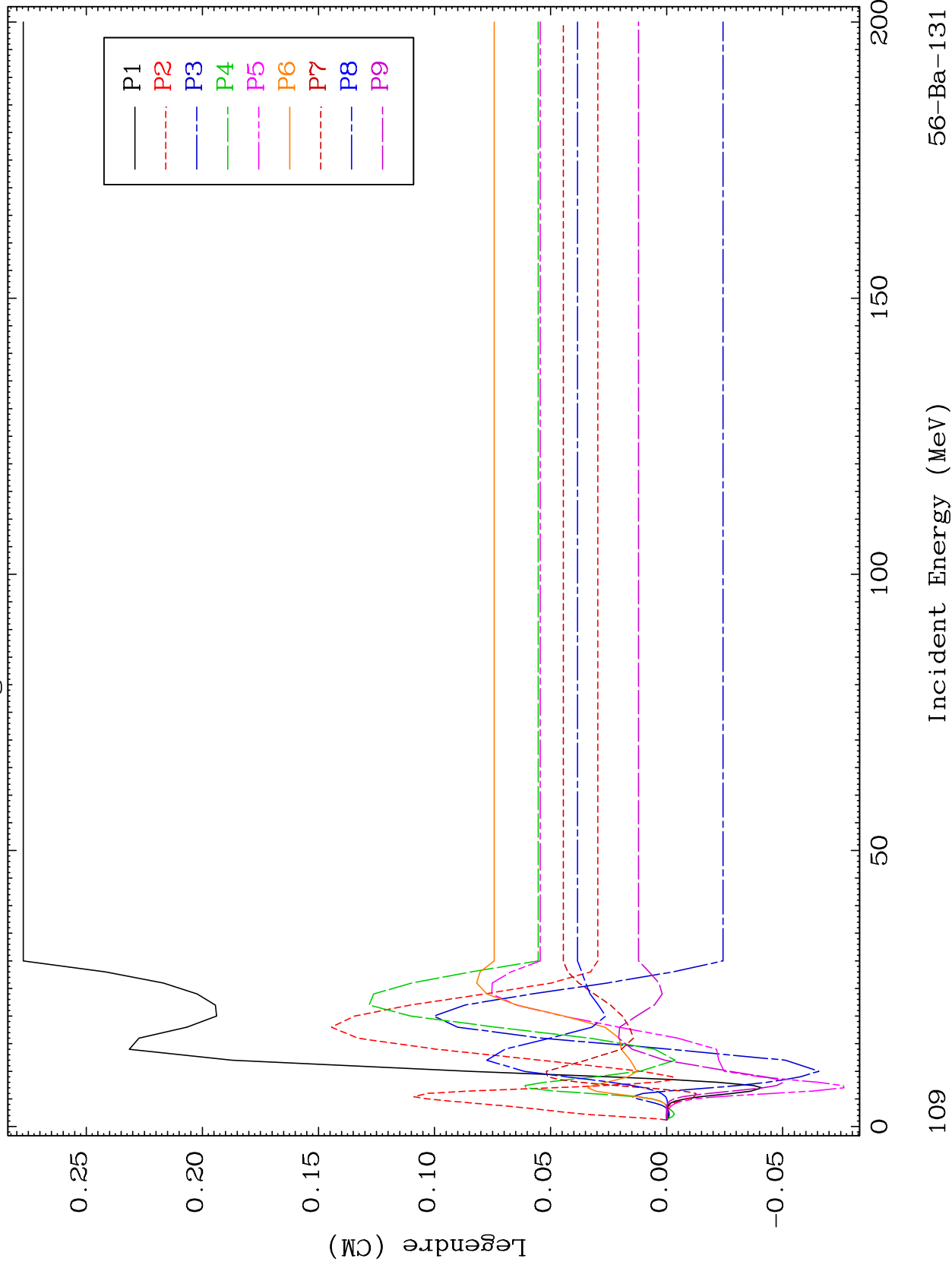
Incident Energy (MeV)

56-Ba-131

MAT 5628

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

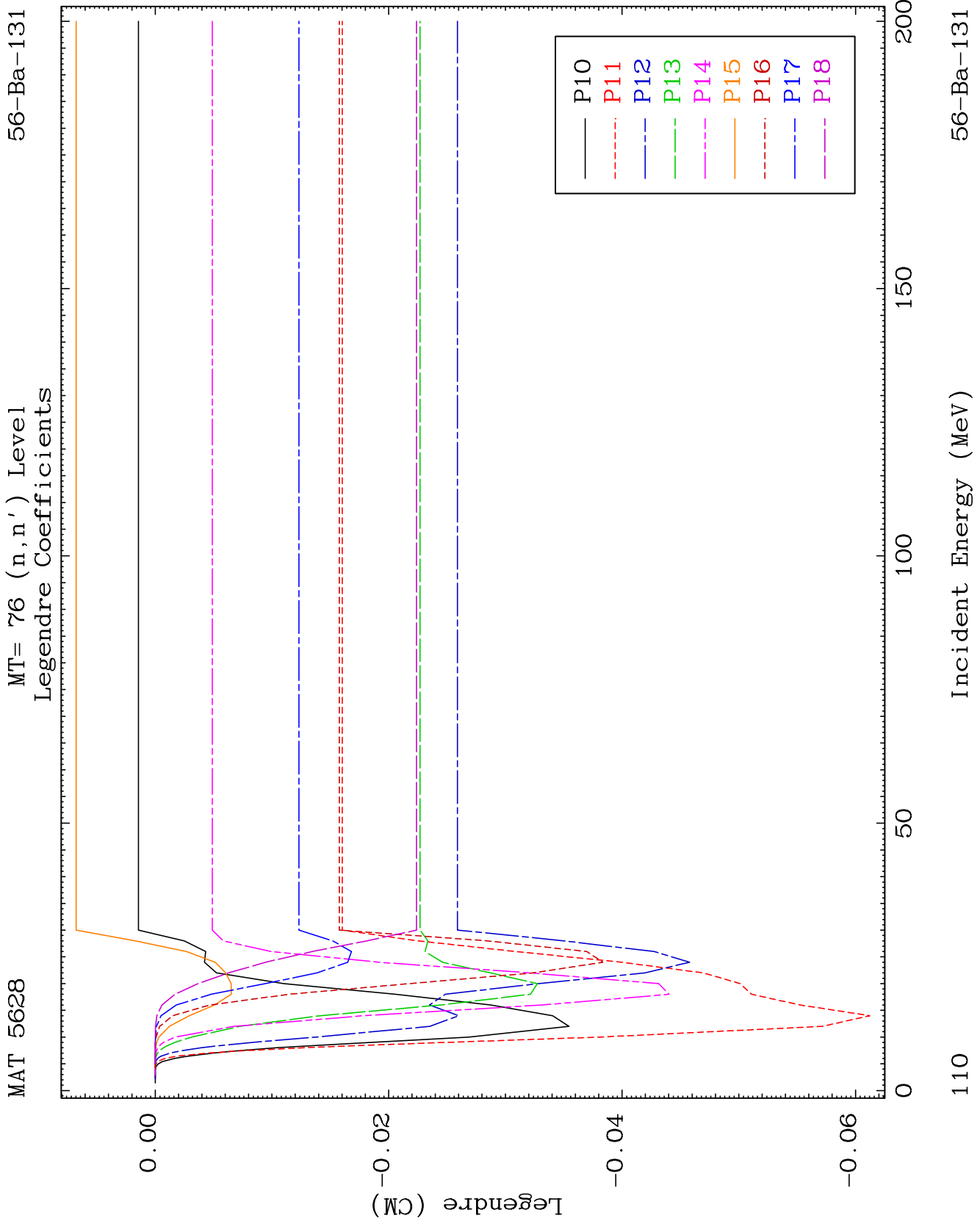
56-Ba-131

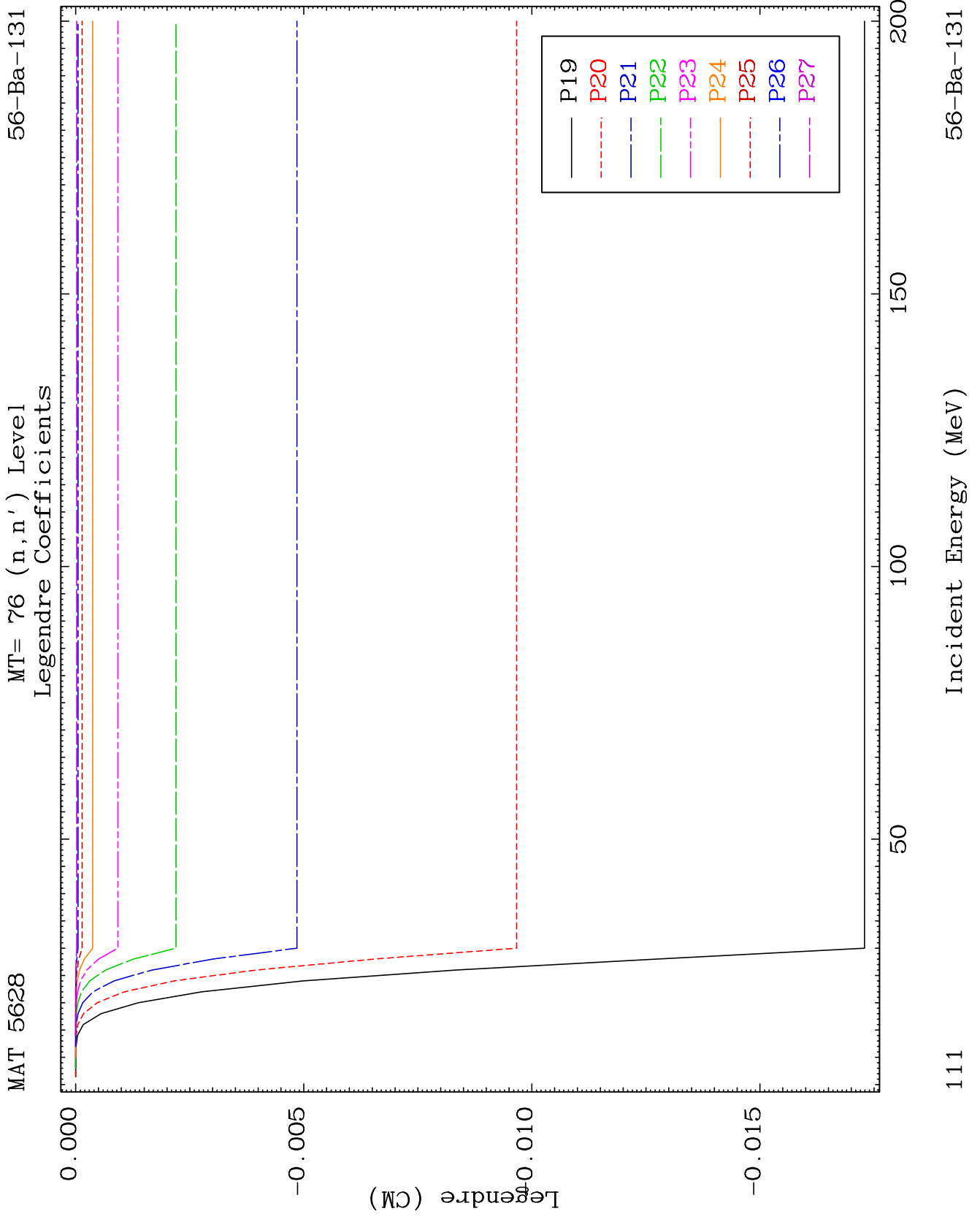


56-Ba-131

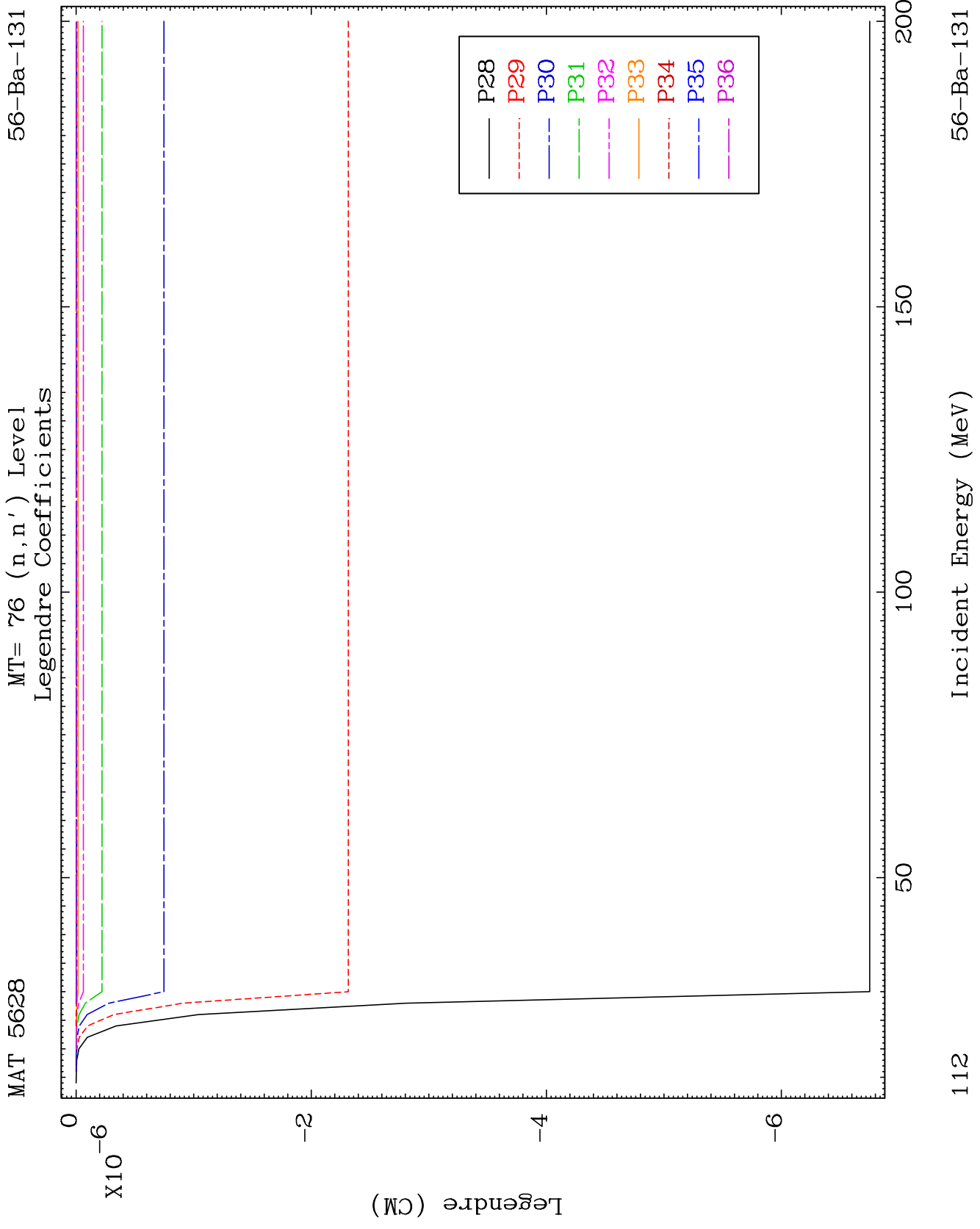
Incident Energy (MeV)

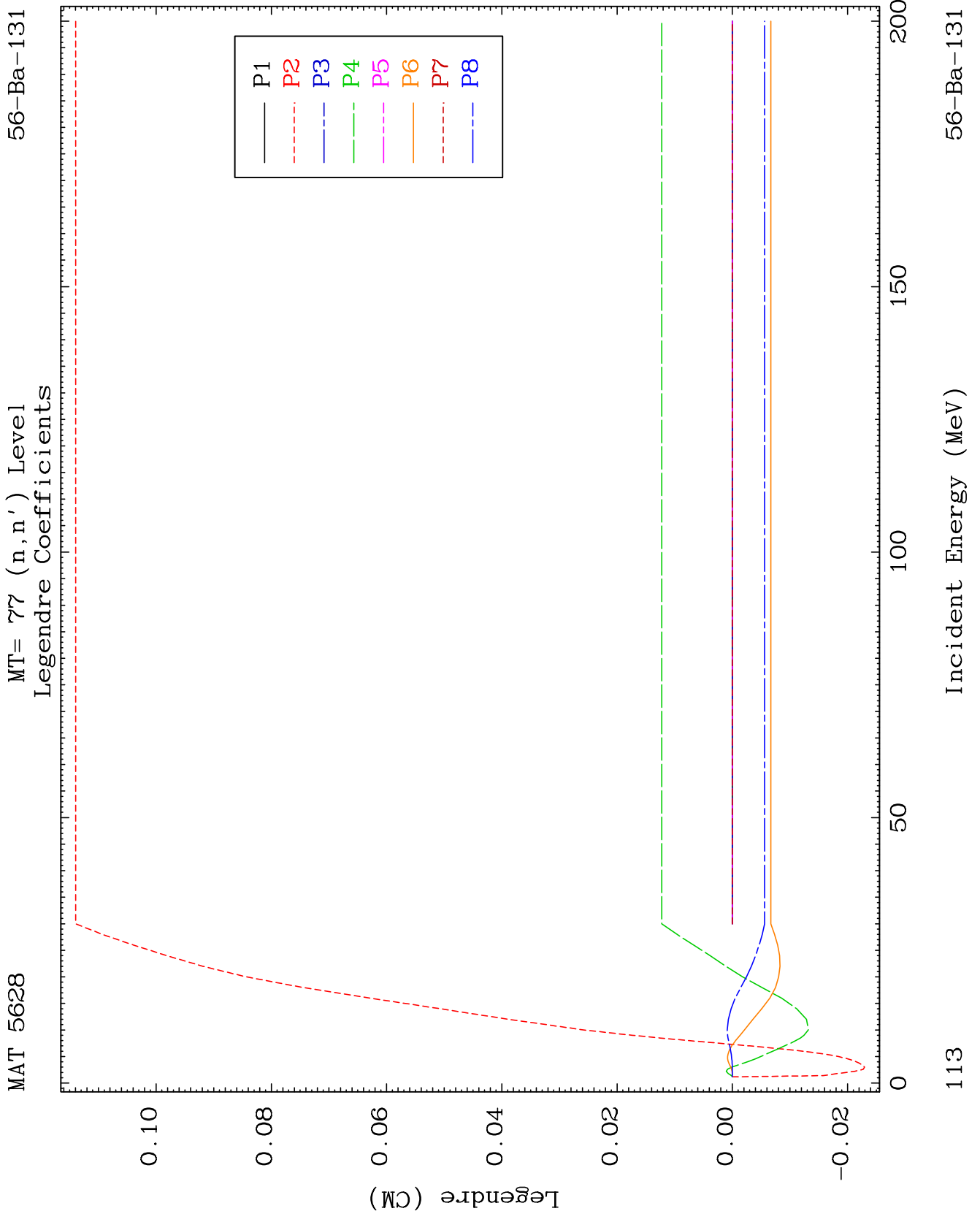
109







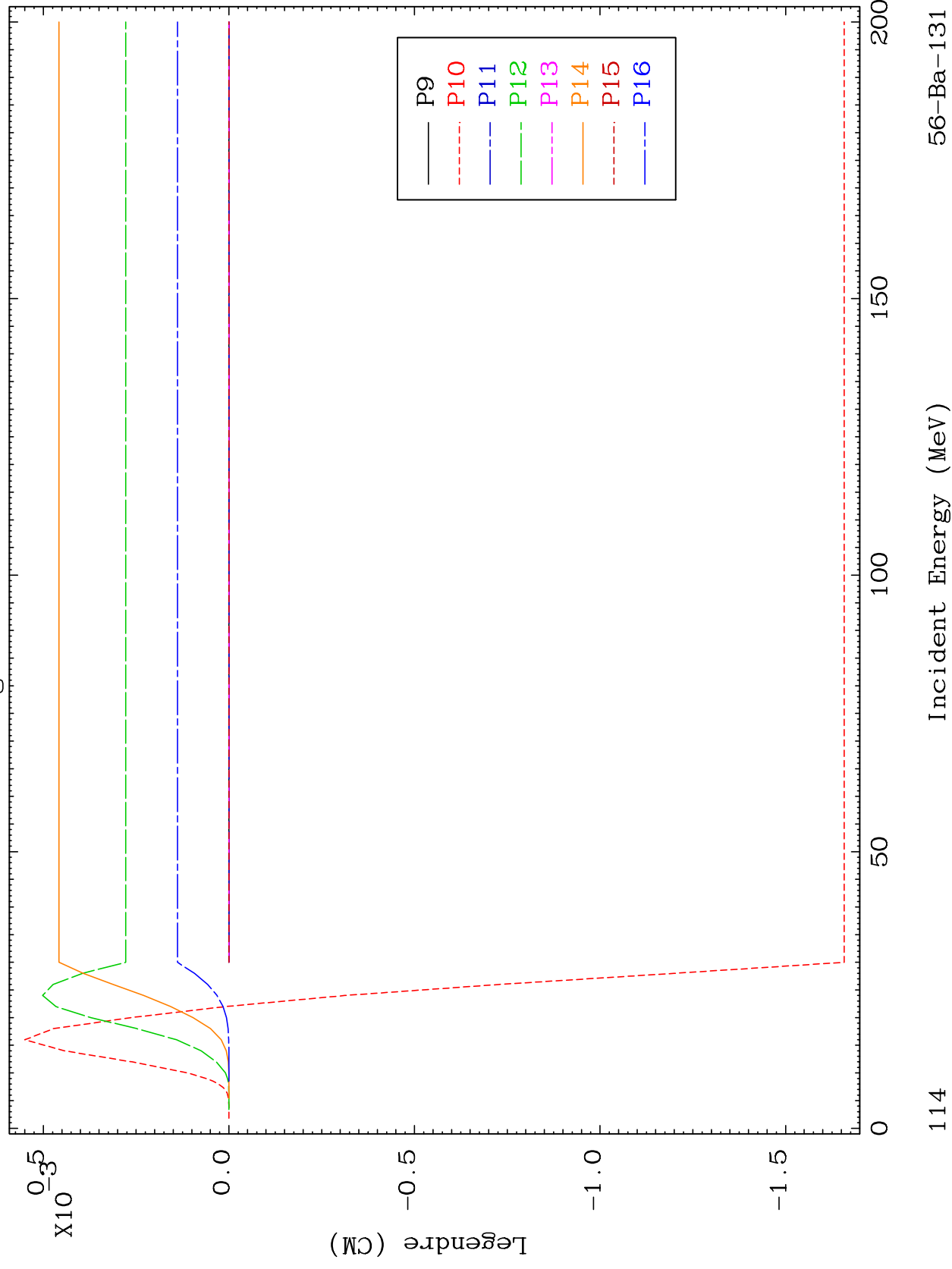




MAT 5628

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

56-Ba-131



56-Ba-131

Incident Energy (MeV)

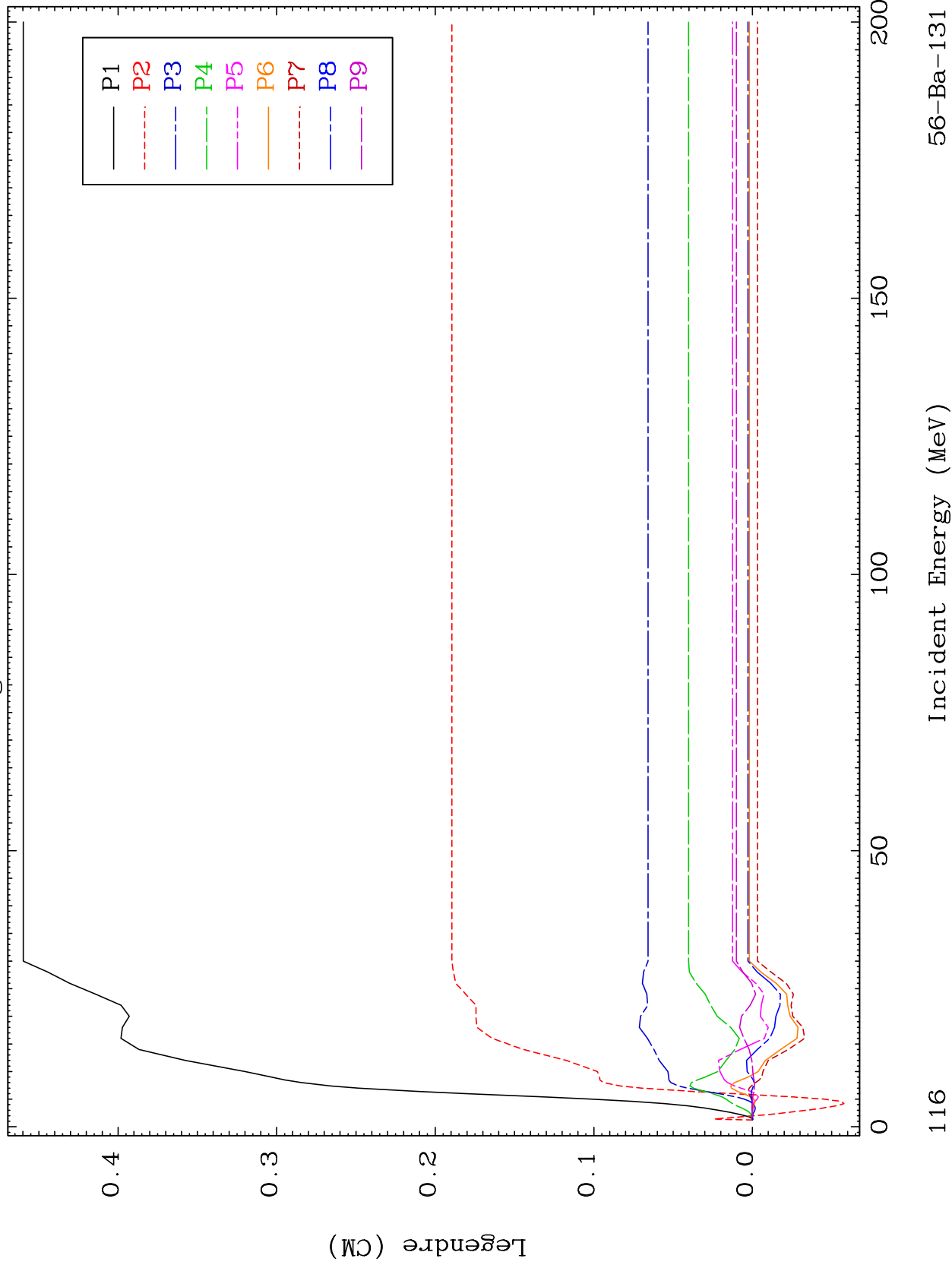
114



MAT 5628

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

56-Ba-131



56-Ba-131

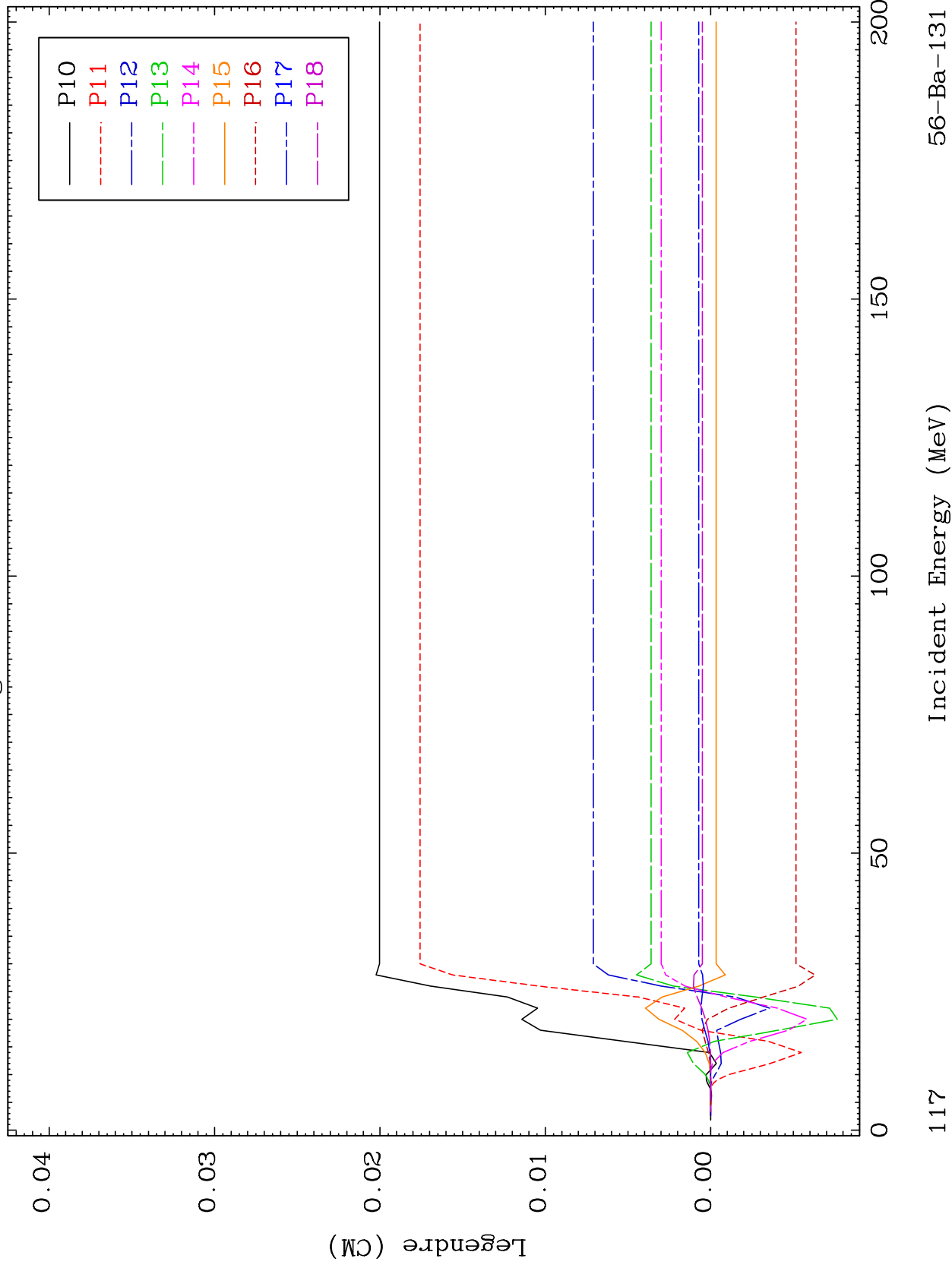
Incident Energy (MeV)

116

MAT 5628

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

56-Ba-131



56-Ba-131

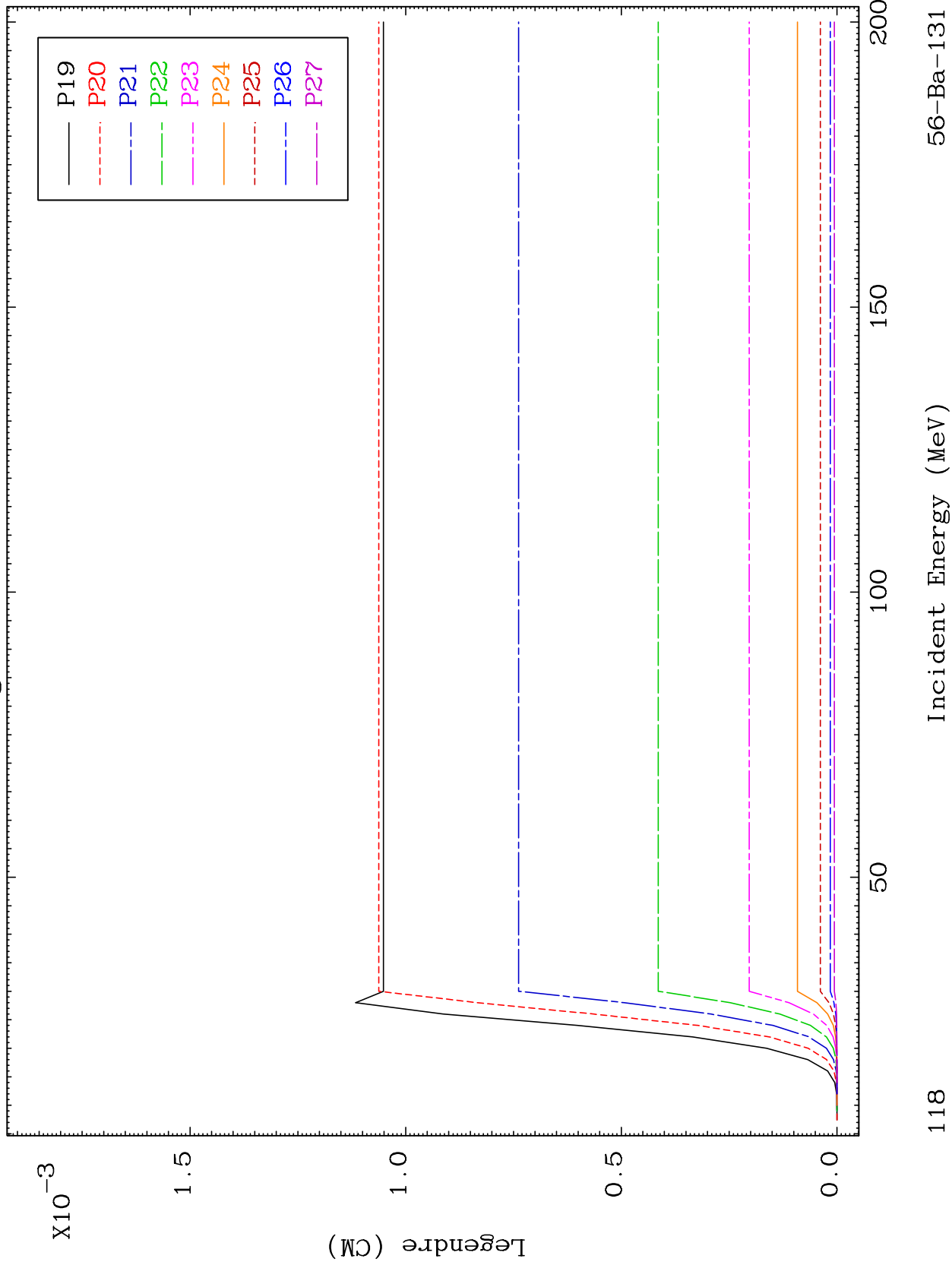
Incident Energy (MeV)

117

MAT 5628

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

56-Ba-131



118

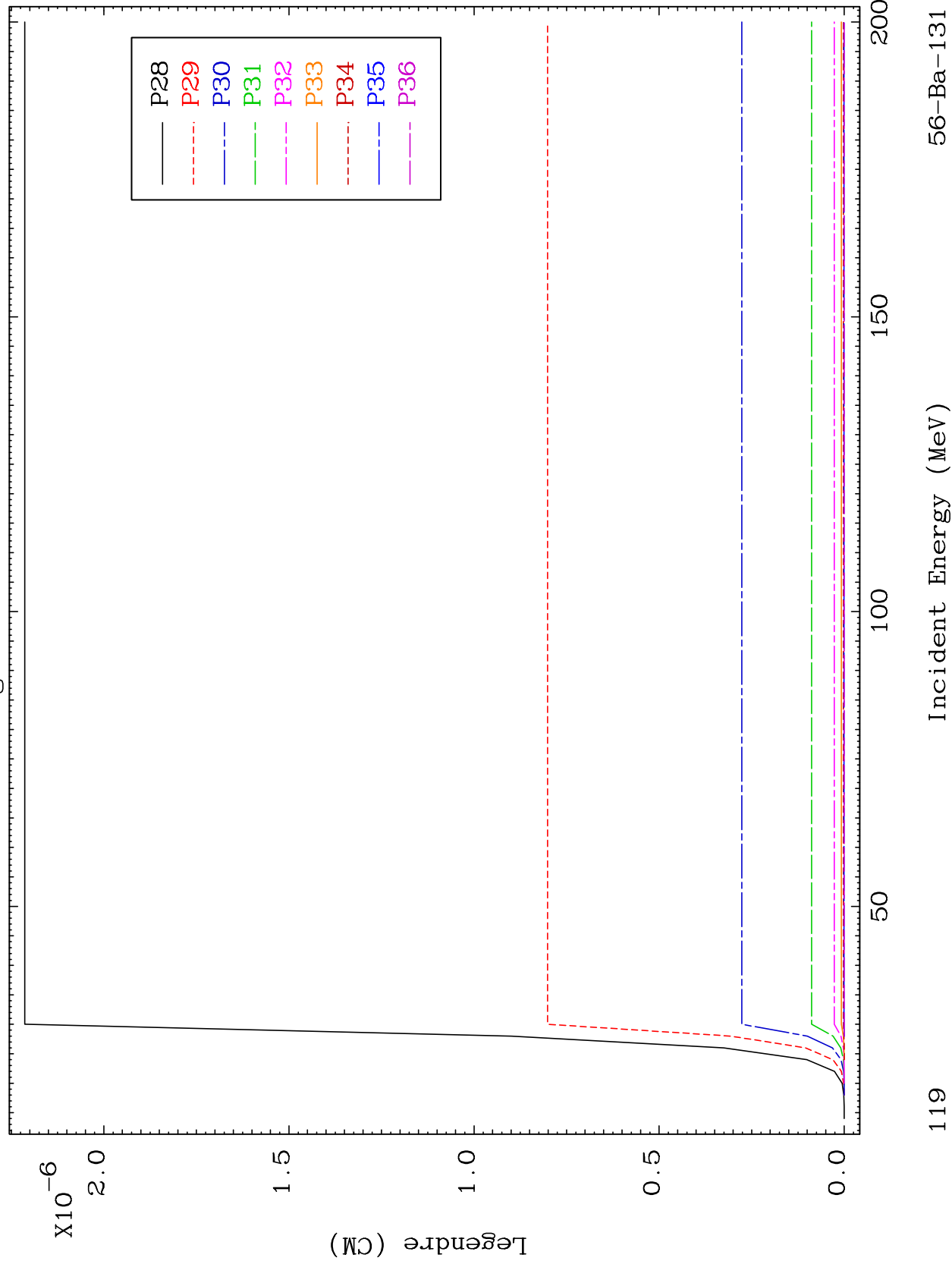
Incident Energy (MeV)

56-Ba-131

MAT 5628

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

56-Ba-131

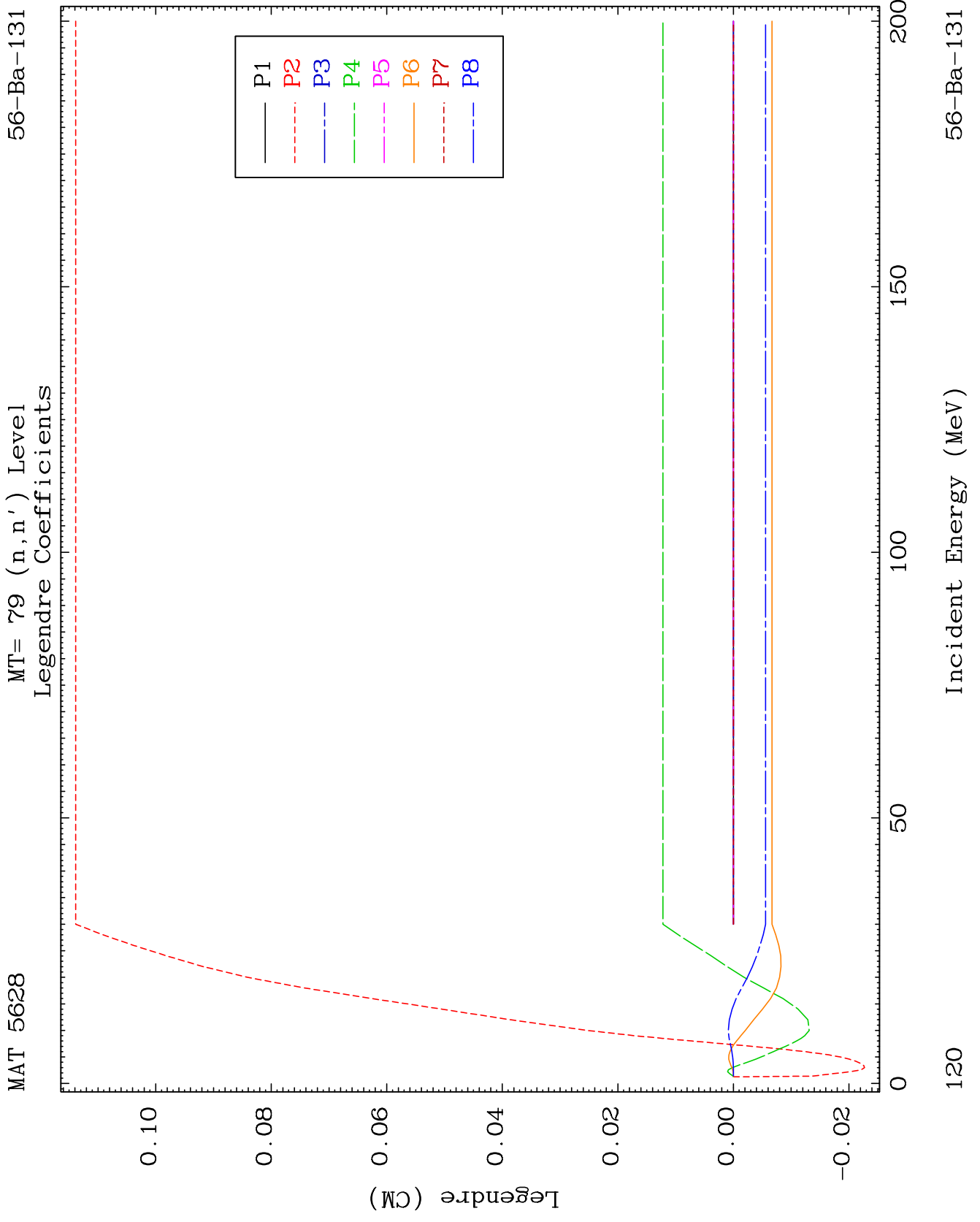


119

Incident Energy (MeV)

56-Ba-131

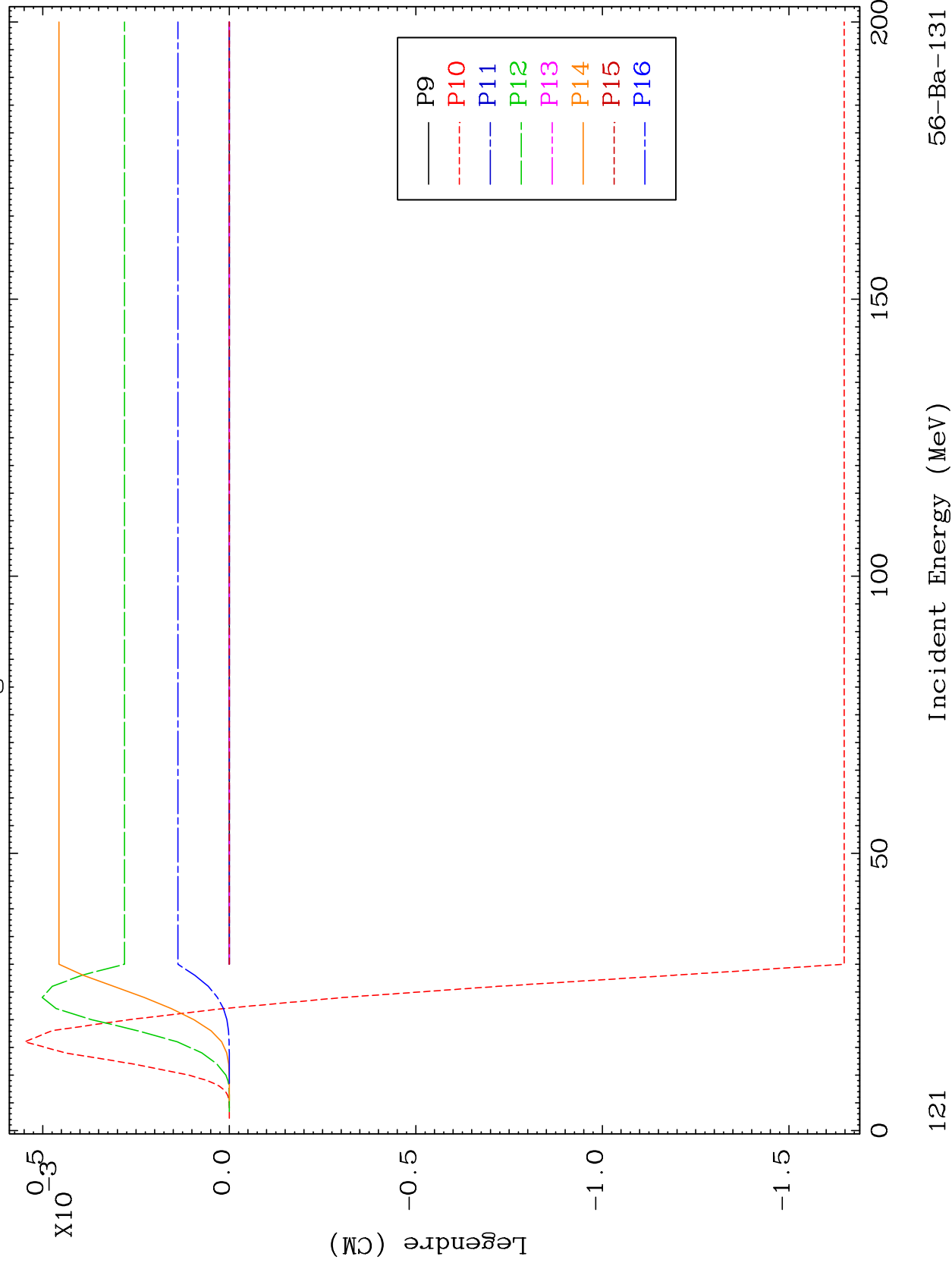




MAT 5628

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

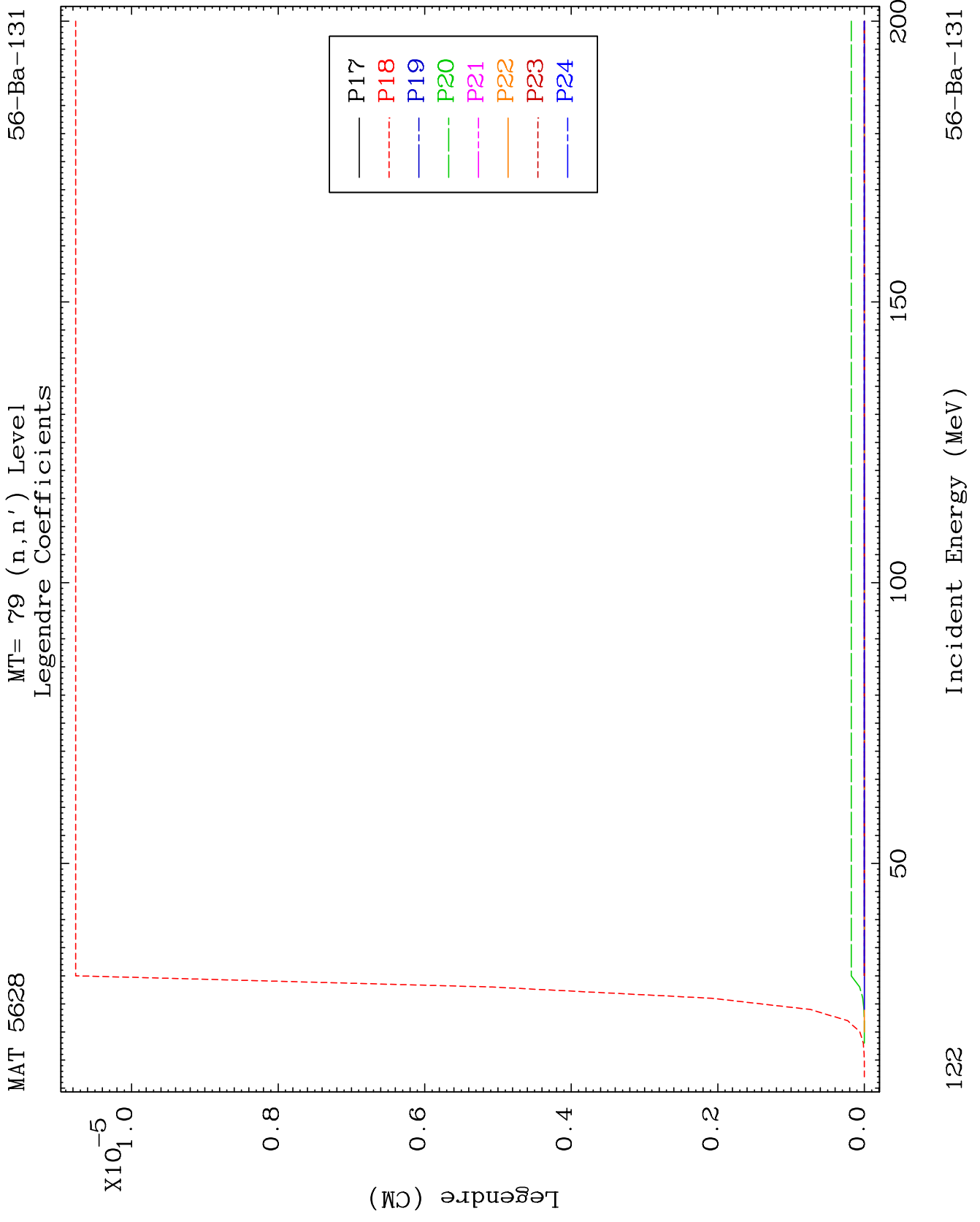
56-Ba-131

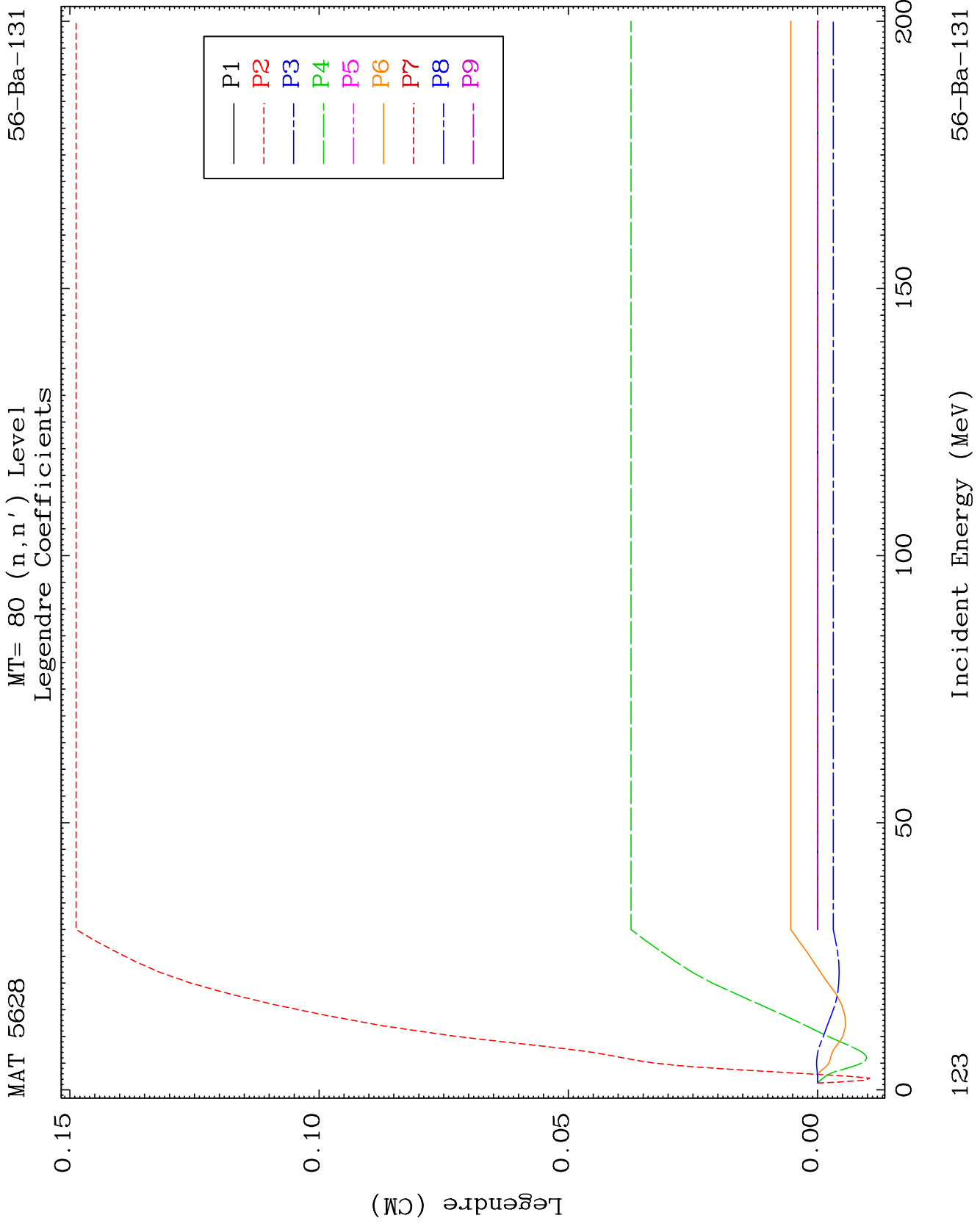


121

Incident Energy (MeV)

56-Ba-131

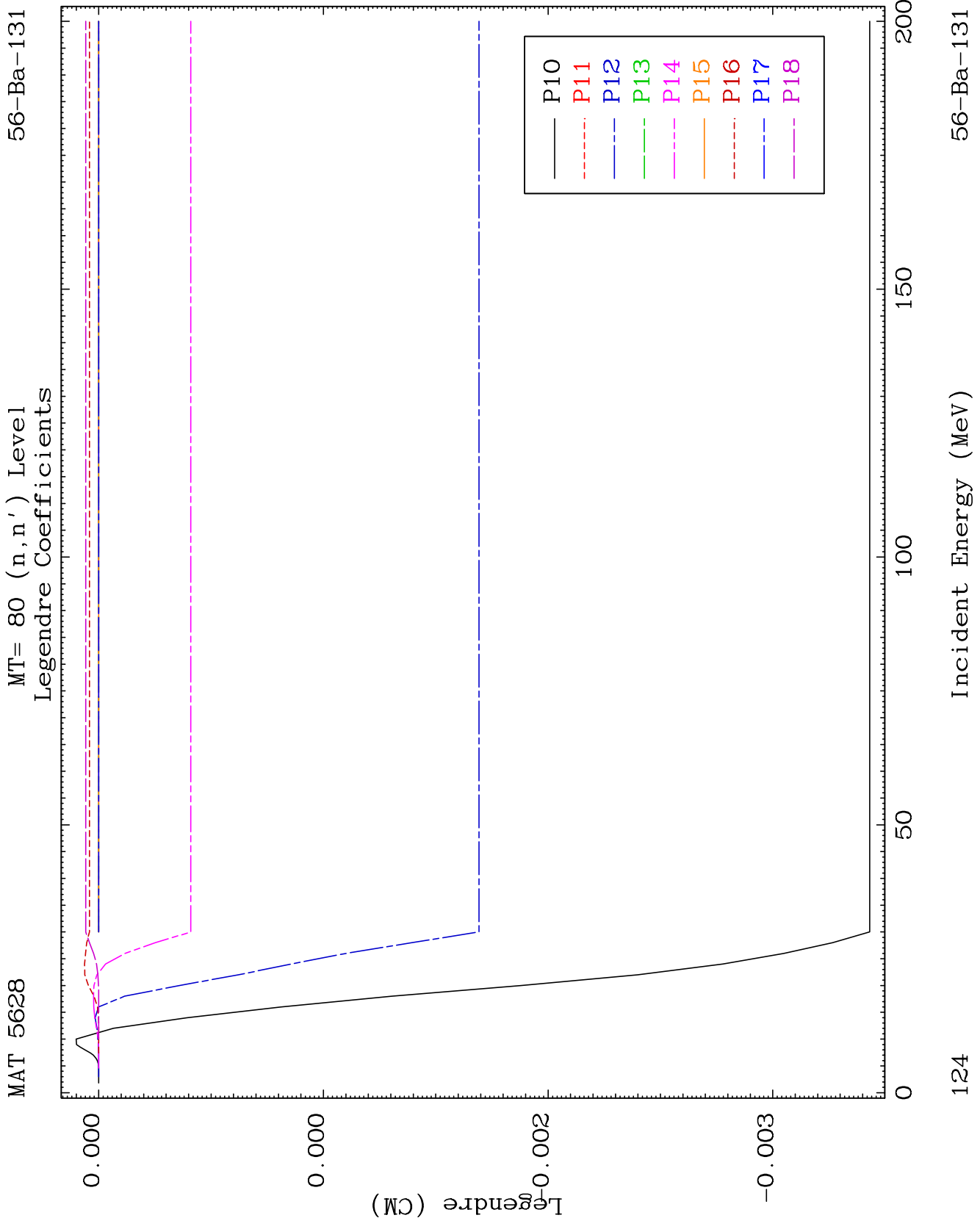




56-Ba-131

Incident Energy (MeV)

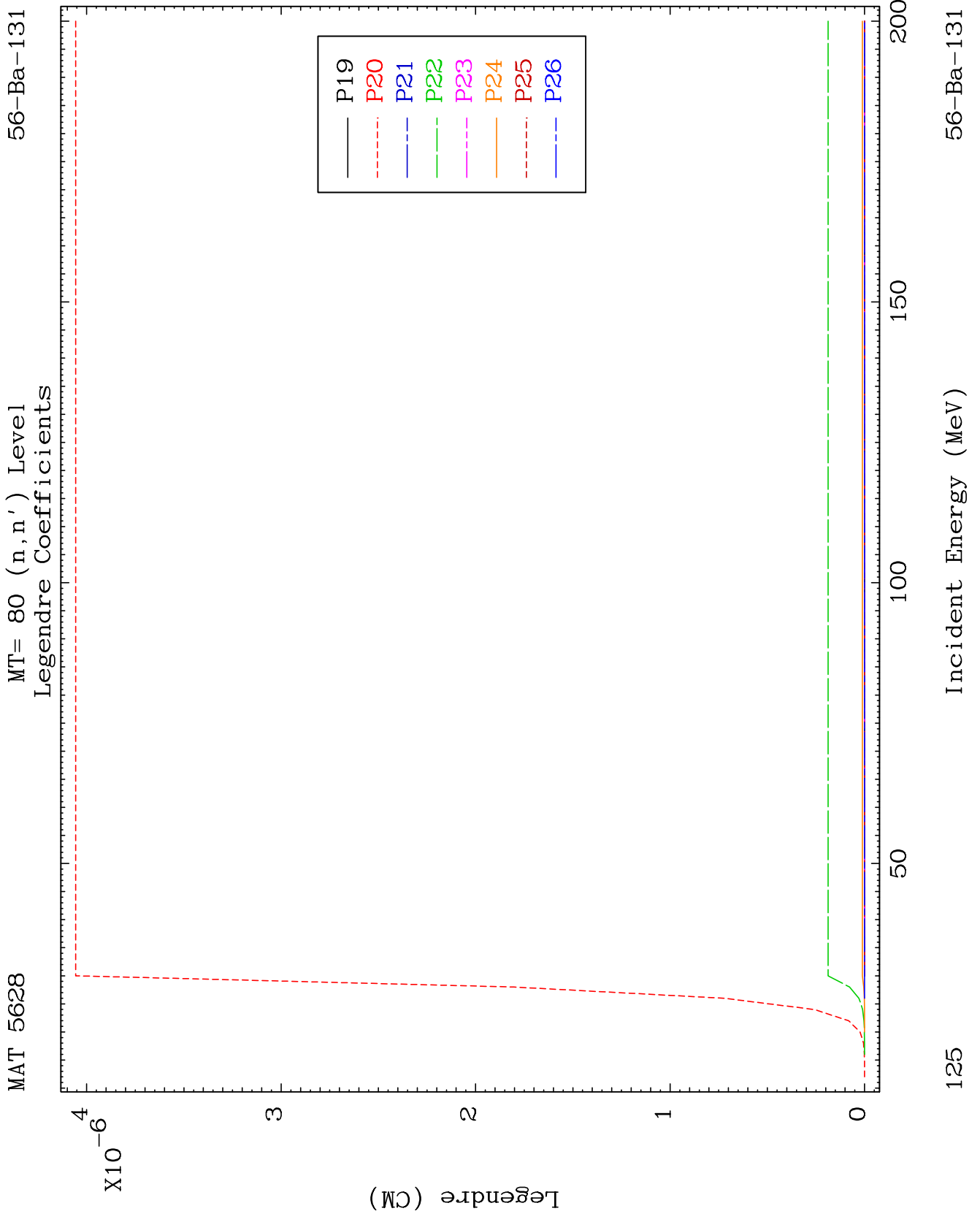
123



56-Ba-131

Incident Energy (MeV)

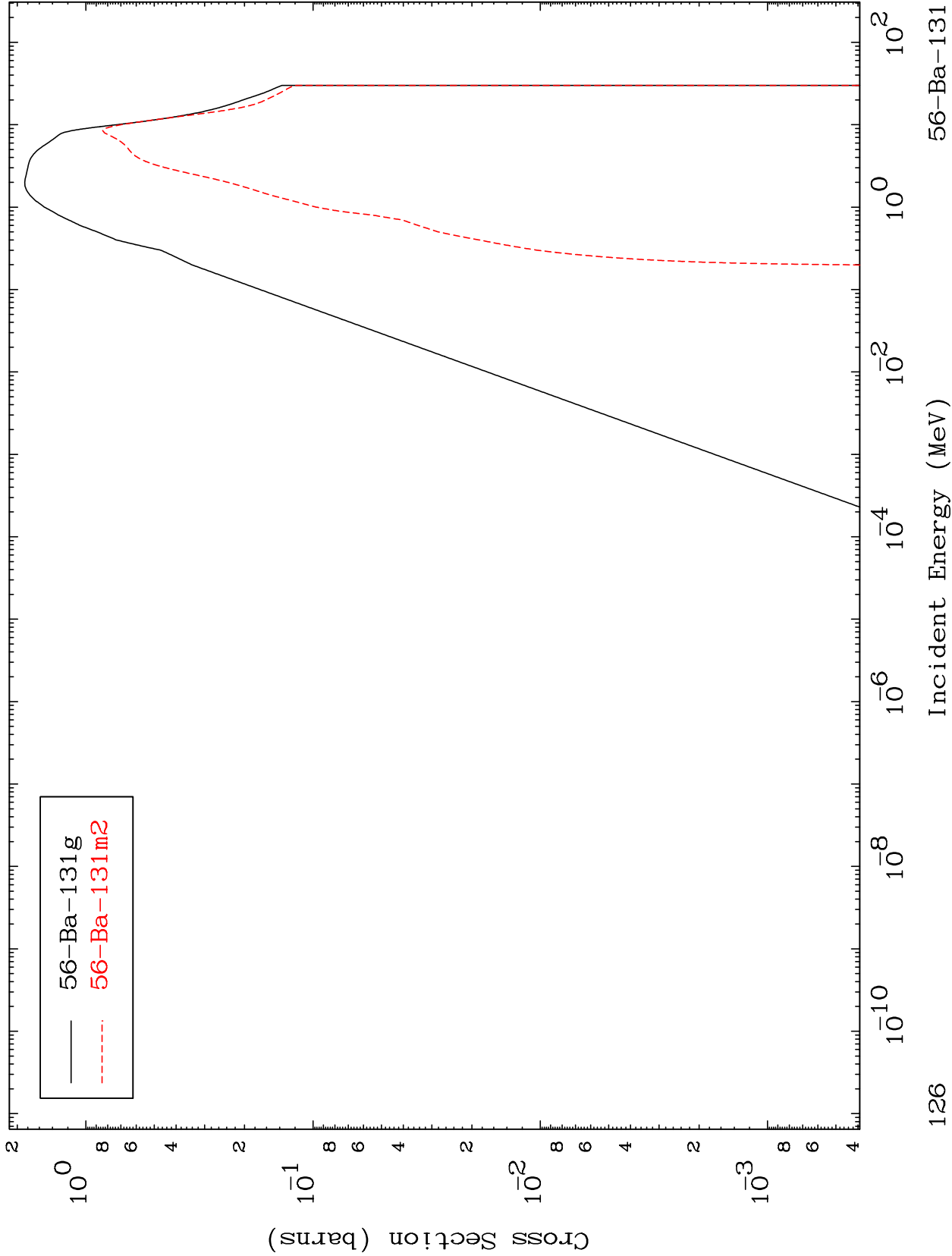
124



MAT 5628

Inelastic  
Radionuclide Production Cross Section

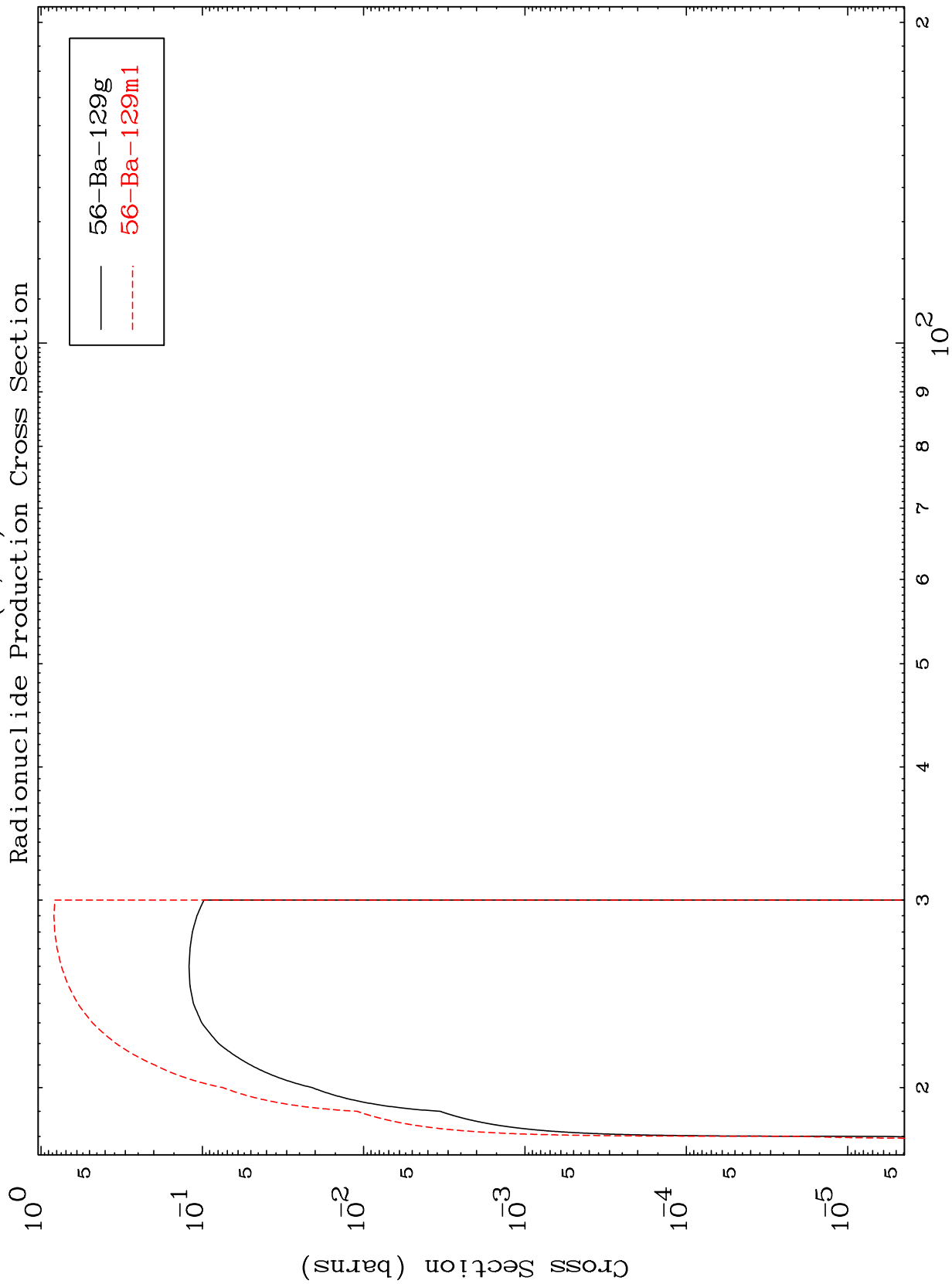
56-Ba-131



MAT 5628

56-Ba-131

(n,3n)  
Radionuclide Production Cross Section



127

Incident Energy (MeV)

56-Ba-131

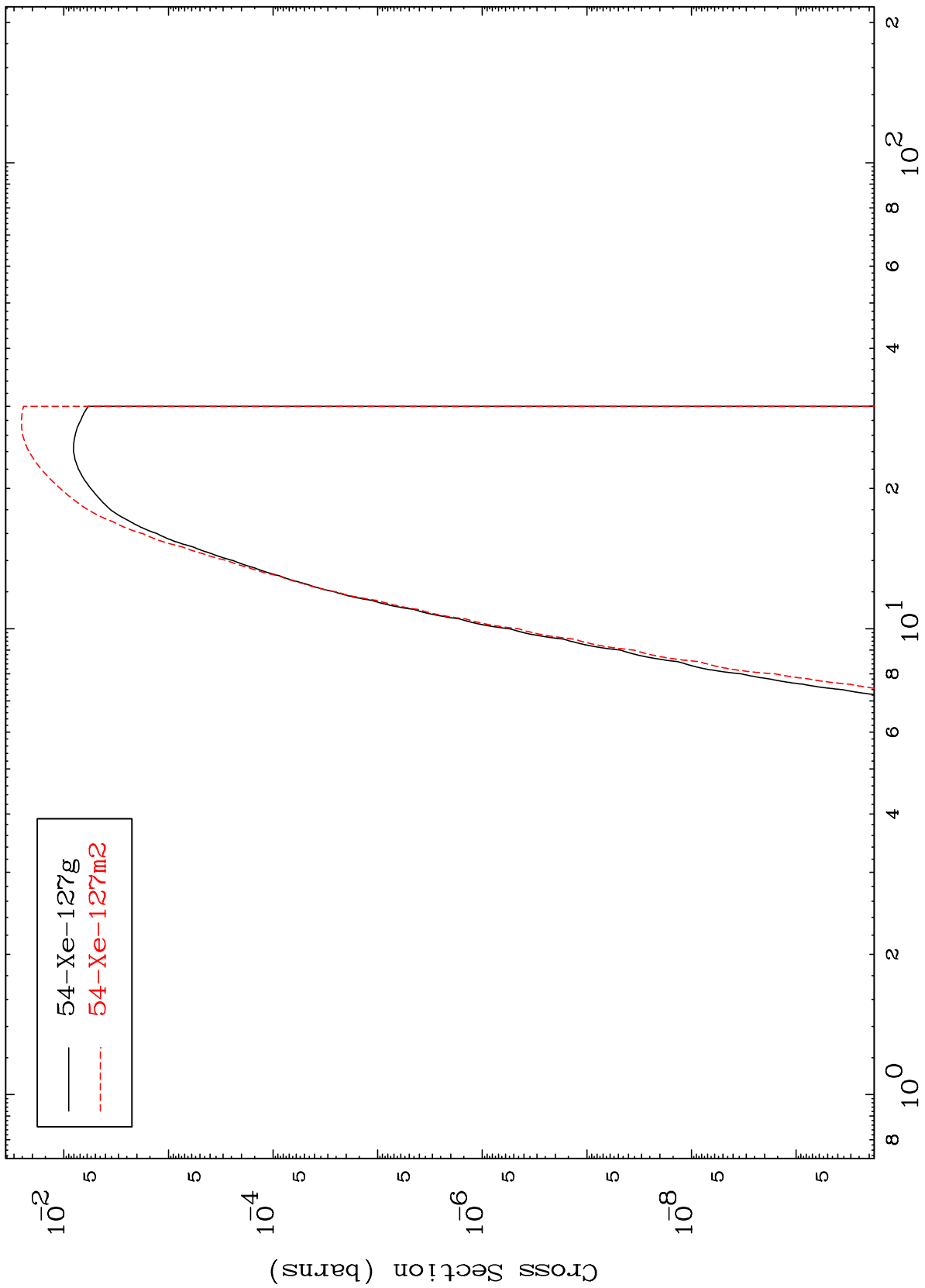


MAT 5628

(n,n')  $\alpha$

56-Ba-131

Radionuclide Production Cross Section



128

Incident Energy (MeV)

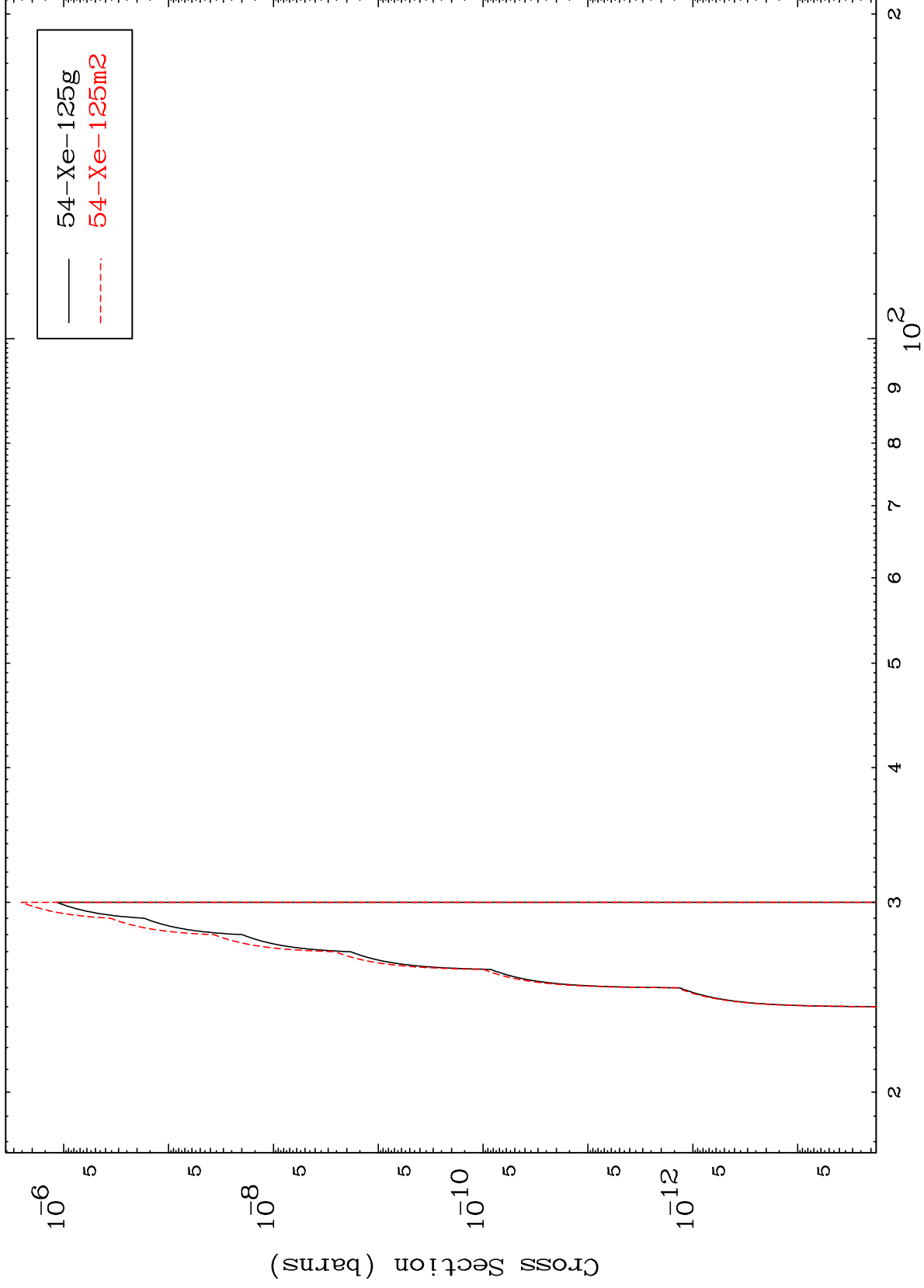
56-Ba-131

MAT 5628

(n,3n)  $\alpha$

56-Ba-131

Radionuclide Production Cross Section



129

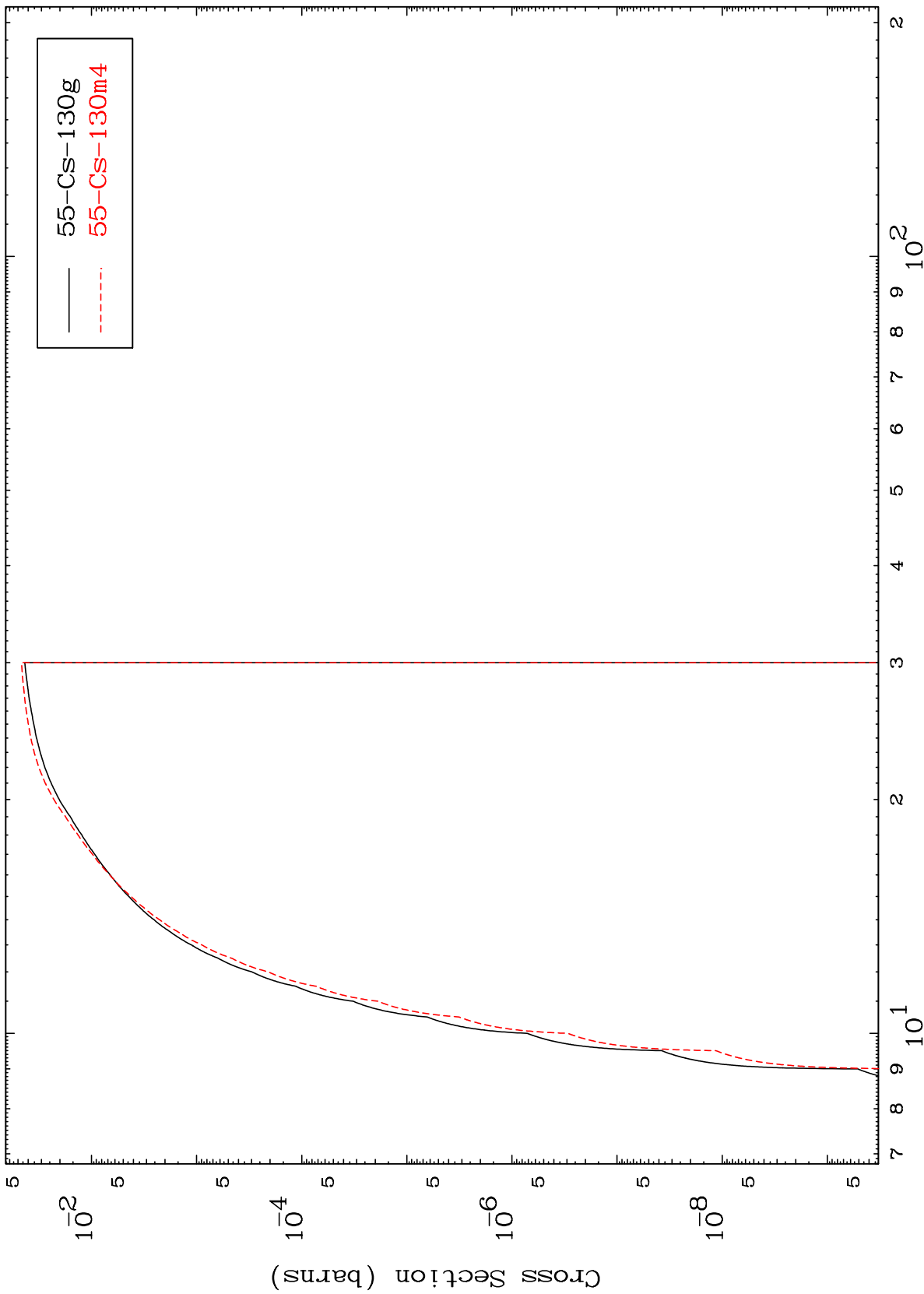
Incident Energy (MeV)

56-Ba-131

MAT 5628

56-Ba-131

(n,n') p  
Radionuclide Production Cross Section



56-Ba-131

Incident Energy (MeV)

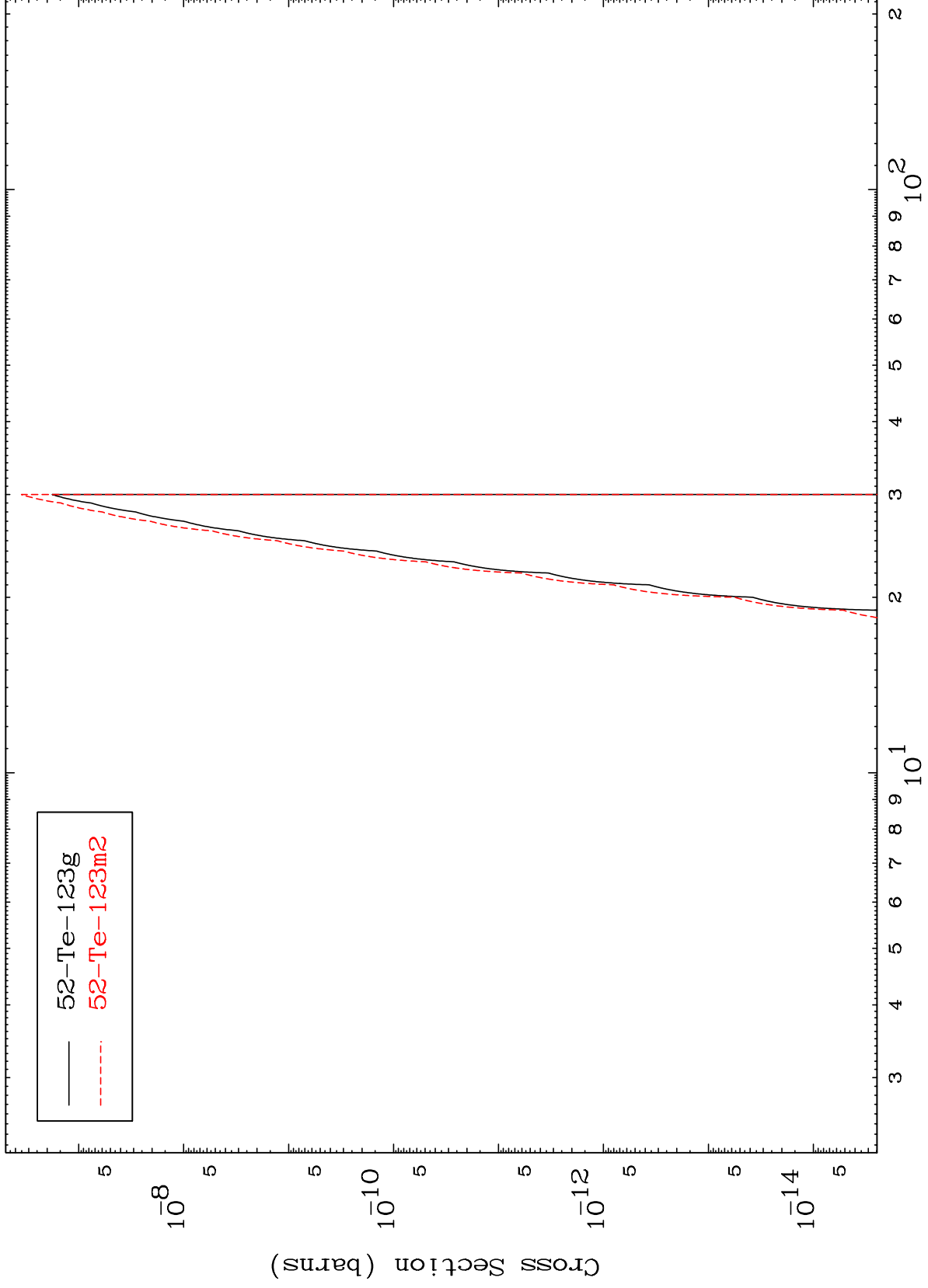
130

MAT 5628

(n,n') 2α

56-Ba-131

Radionuclide Production Cross Section



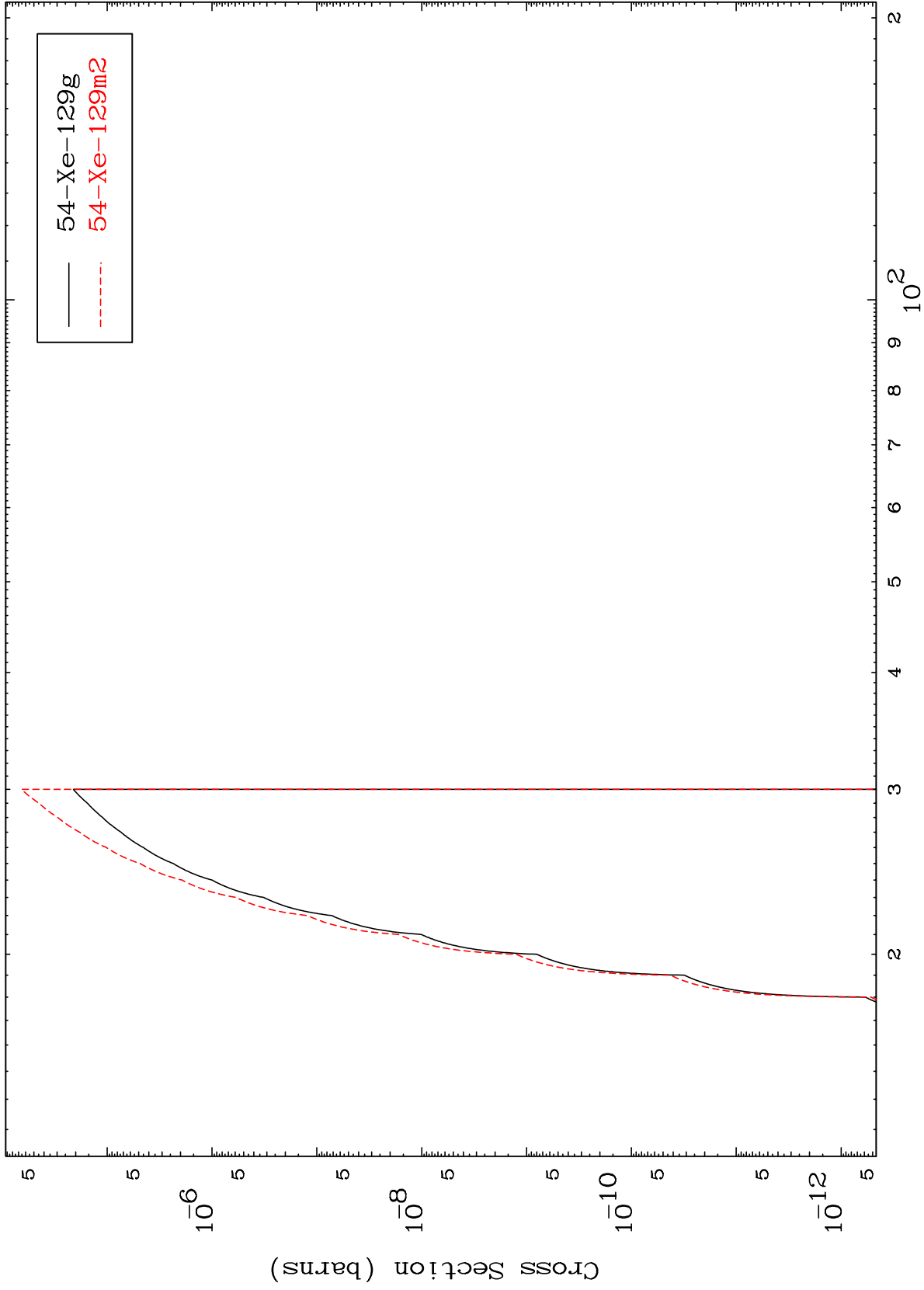
52-Te-123g  
52-Te-123m2

131

Incident Energy (MeV)

56-Ba-131

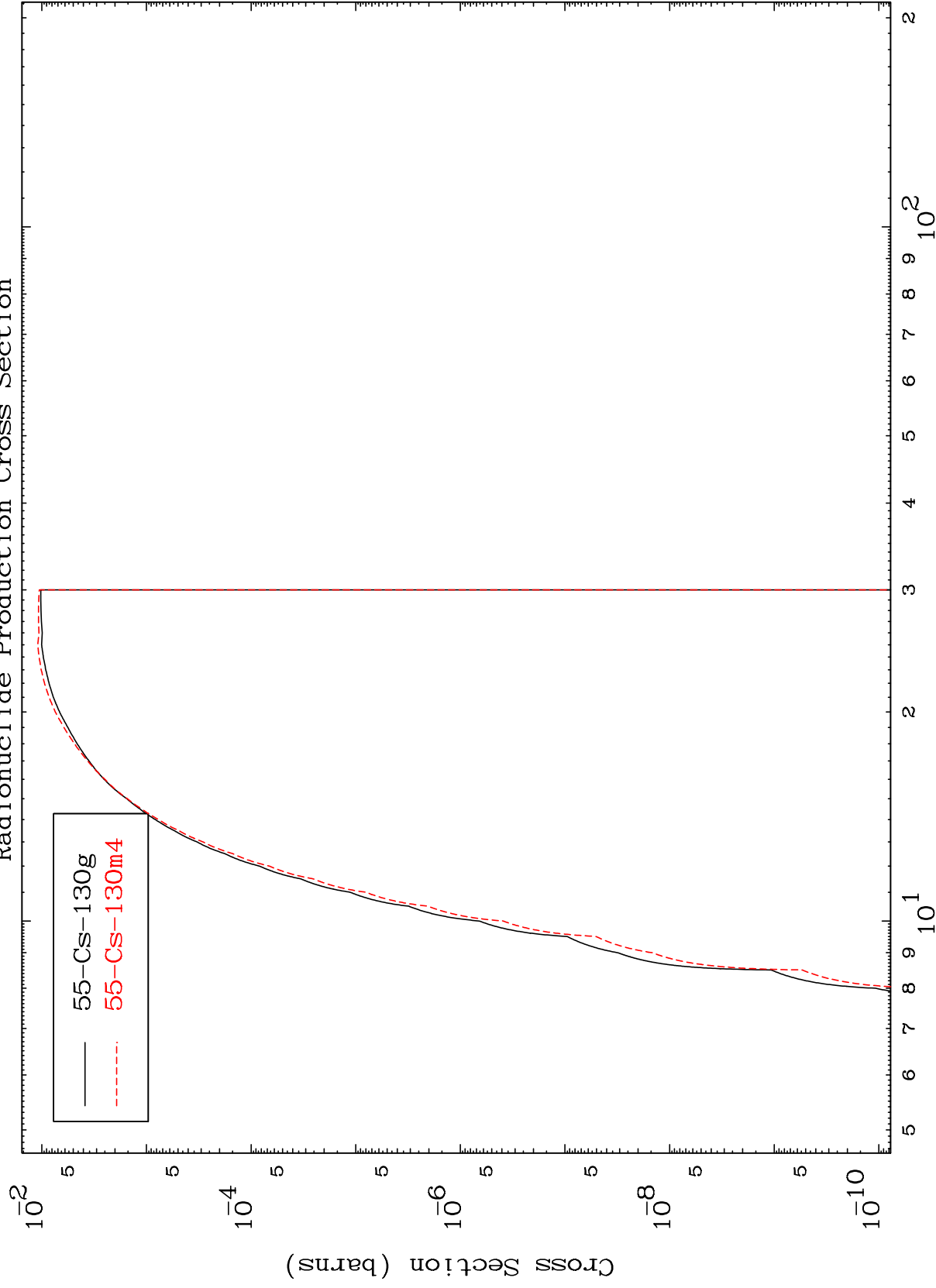
Radionuclide Production Cross Section



MAT 5628

56-Ba-131

(n,d)  
Radionuclide Production Cross Section



133

Incident Energy (MeV)

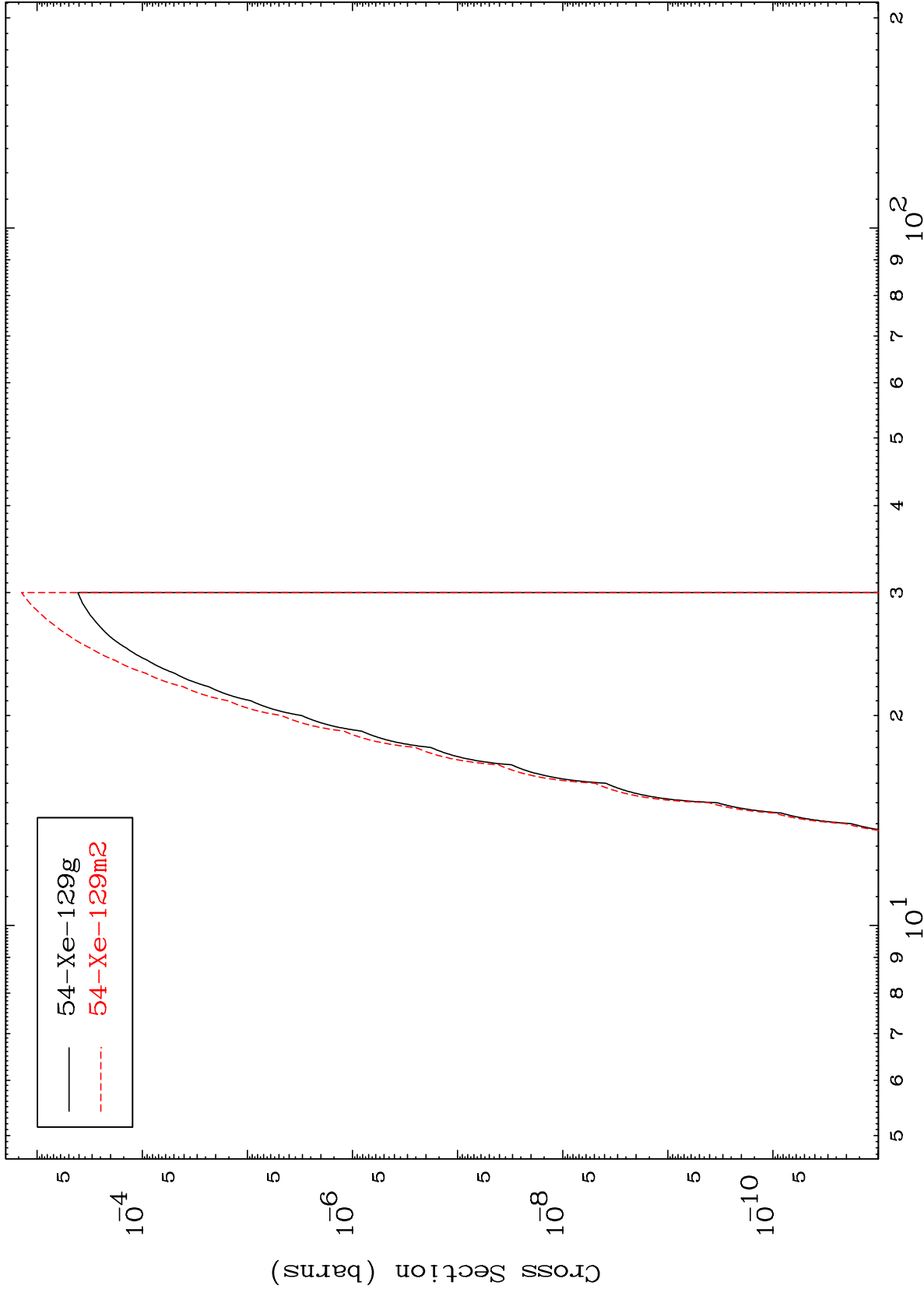
56-Ba-131

MAT 5628

(n,He-3)

56-Ba-131

Radionuclide Production Cross Section



134

Incident Energy (MeV)

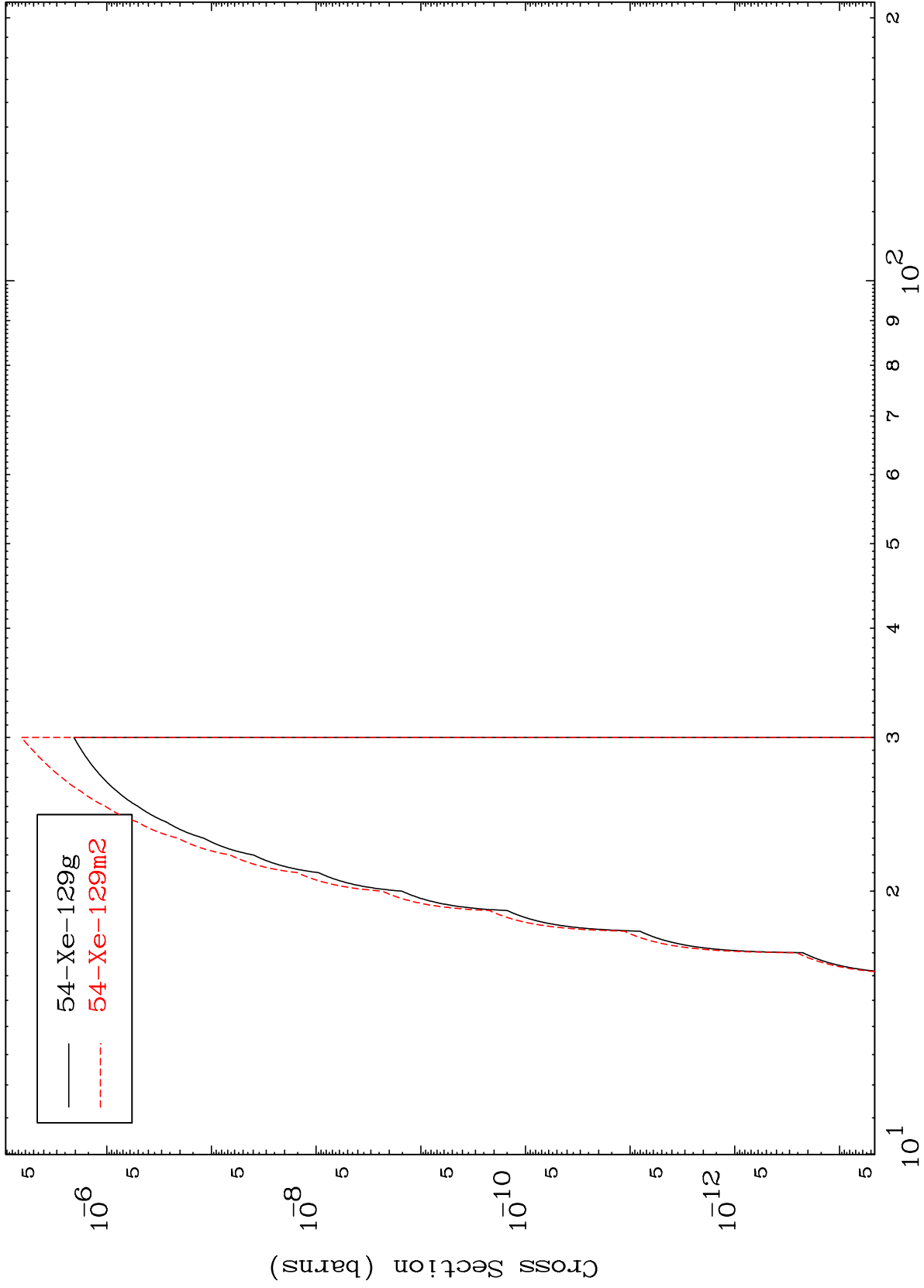
56-Ba-131

MAT 5628

(n,p) d

56-Ba-131

Radionuclide Production Cross Section



Incident Energy (MeV)

56-Ba-131

135