

Program EVALPLOT
(Version 2017-1)

by

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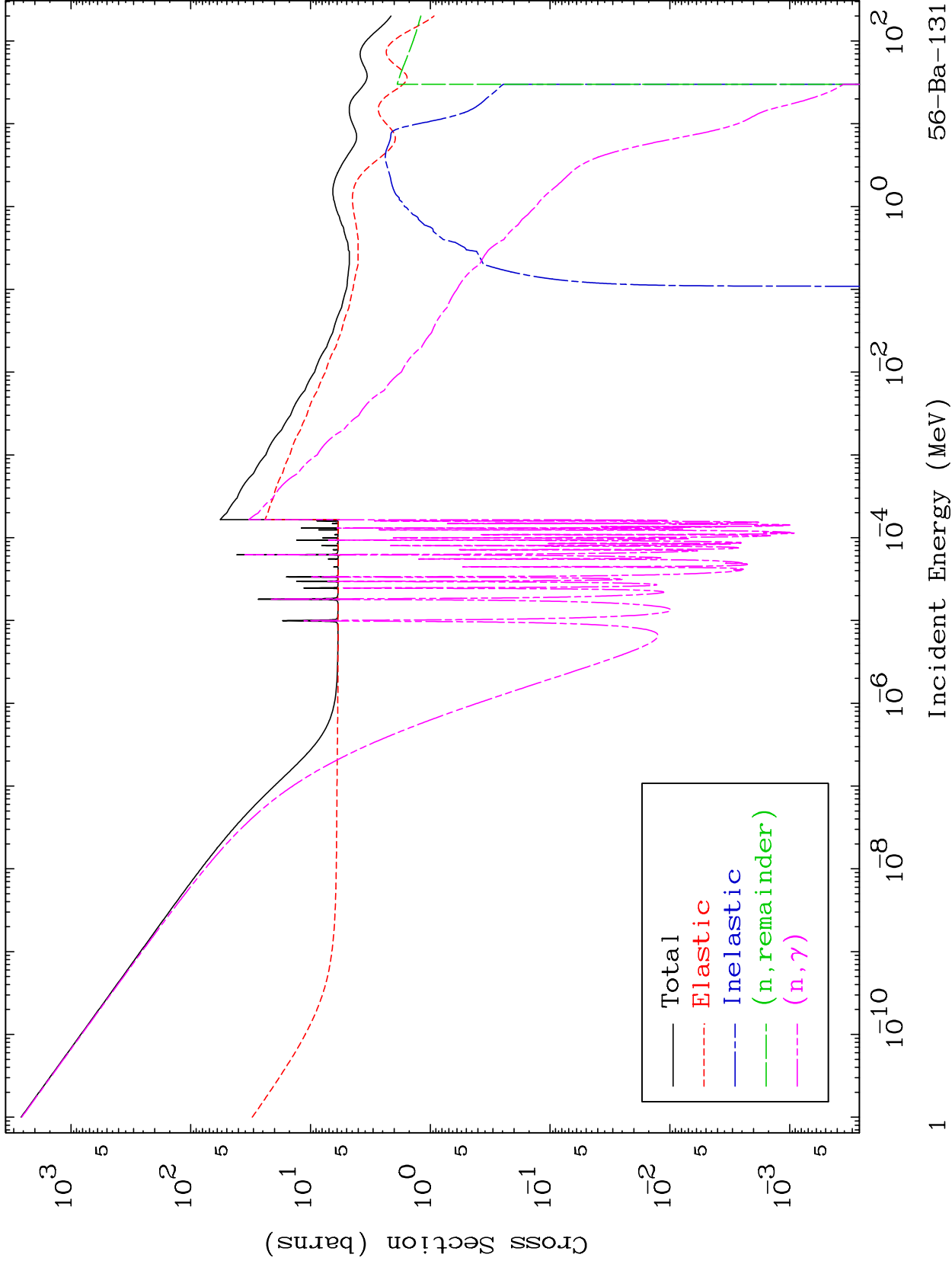
Press Mouse Button to Start

MAT 5628

Major

293 Kelvin Cross Sections

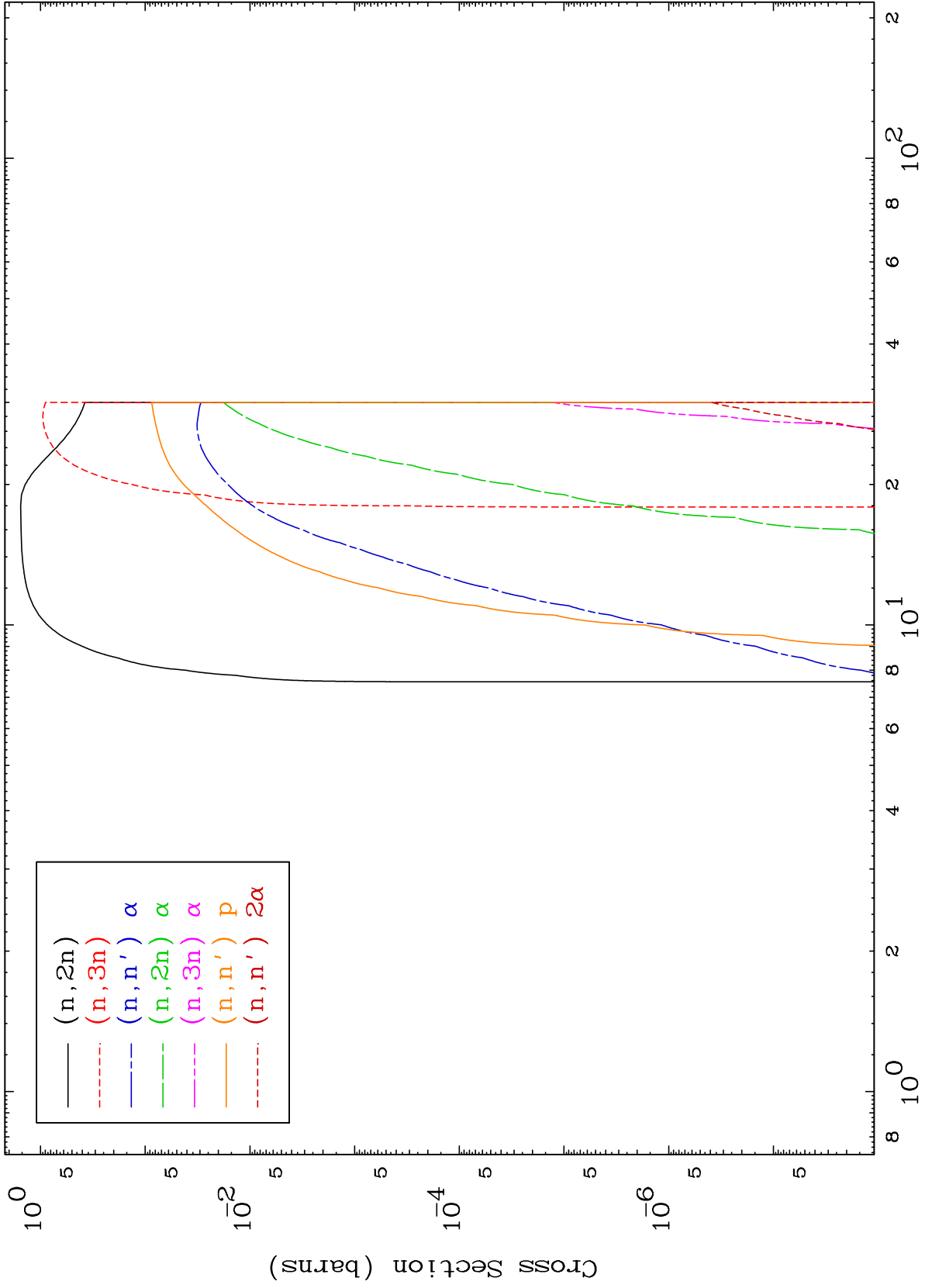
56-Ba-131



MAT 5628

Neutron Production
293 Kelvin Cross Sections

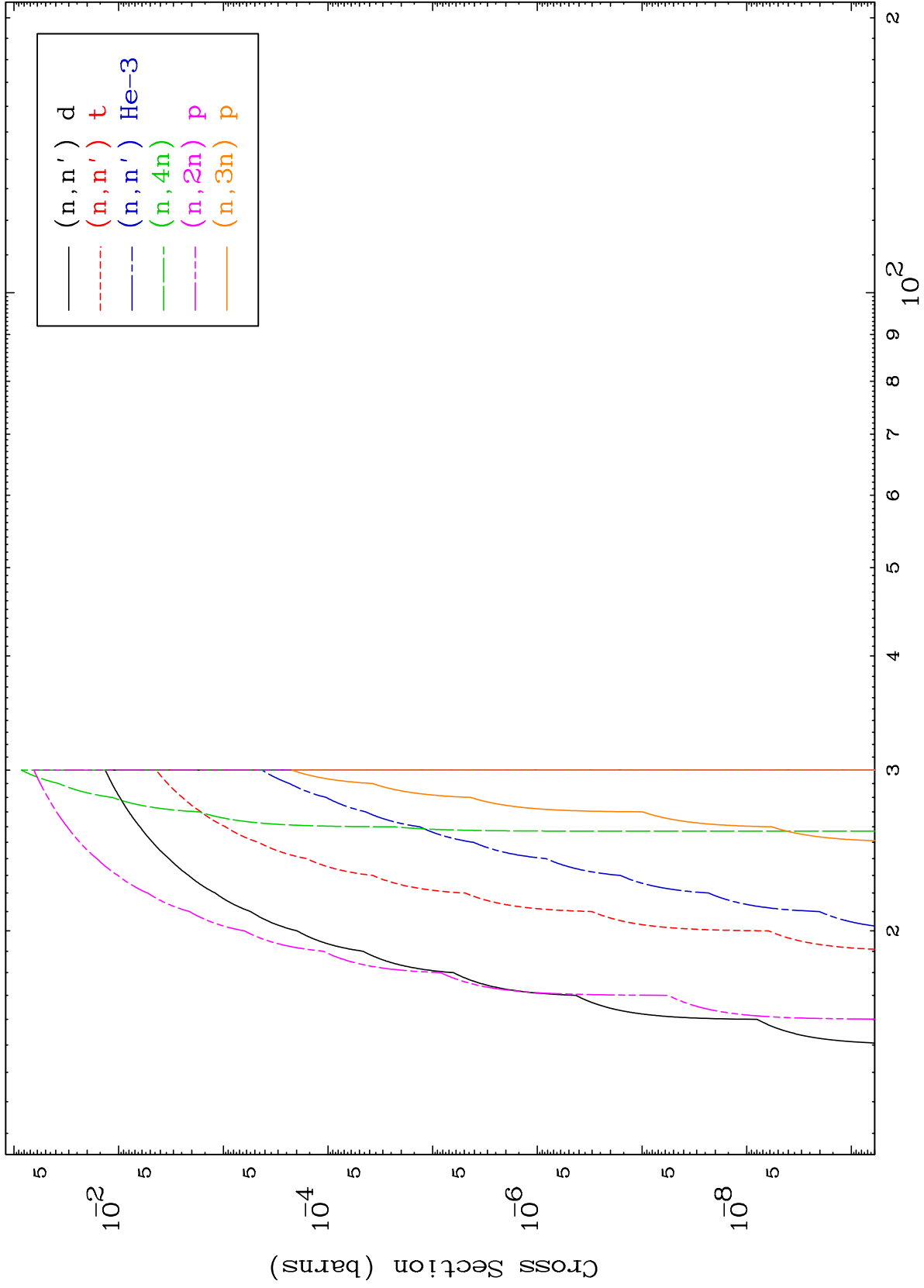
56-Ba-131



2

Incident Energy (MeV)

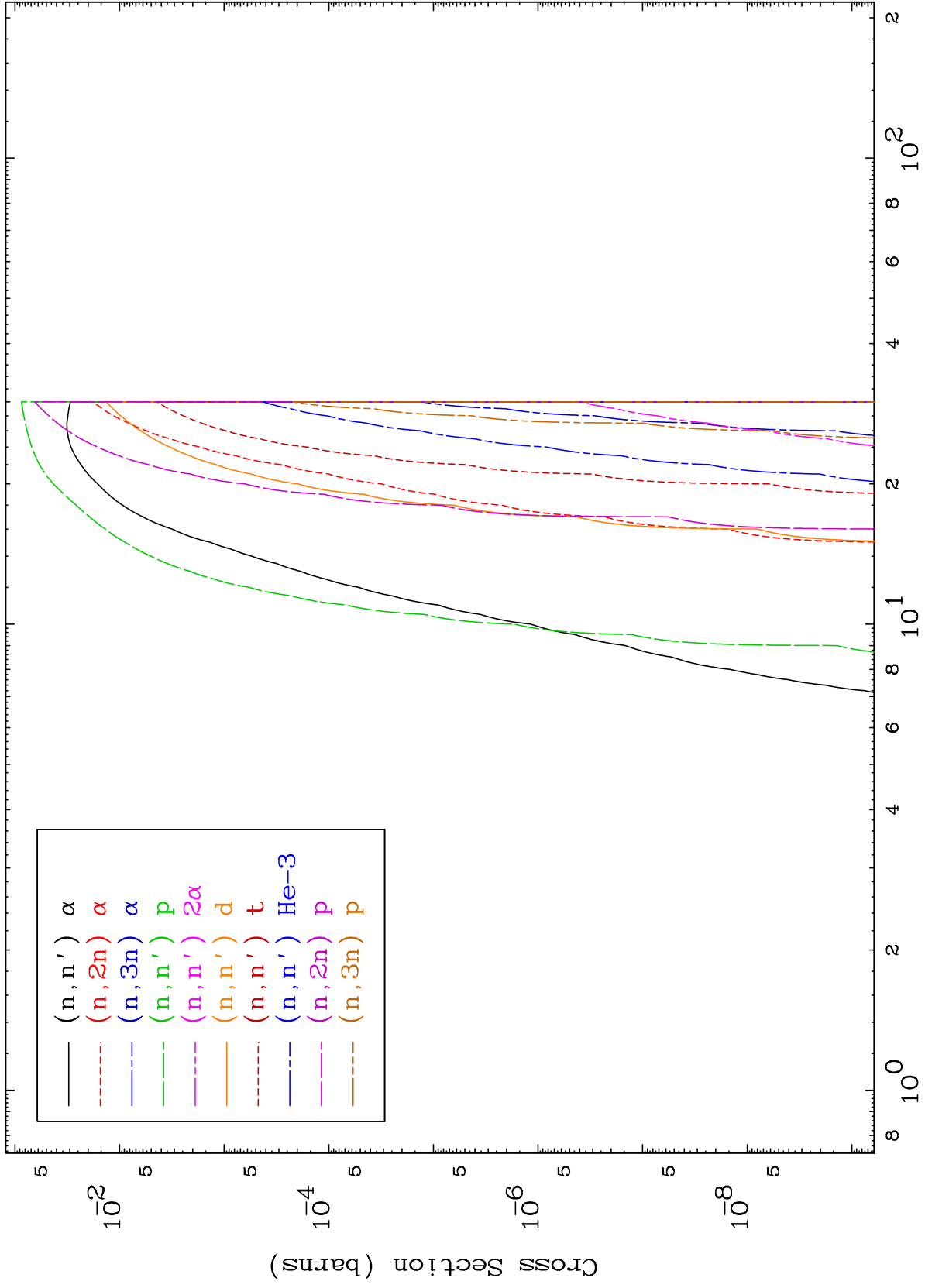
56-Ba-131



MAT 5628

Charged Particle
293 Kelvin Cross Sections

56-Ba-131



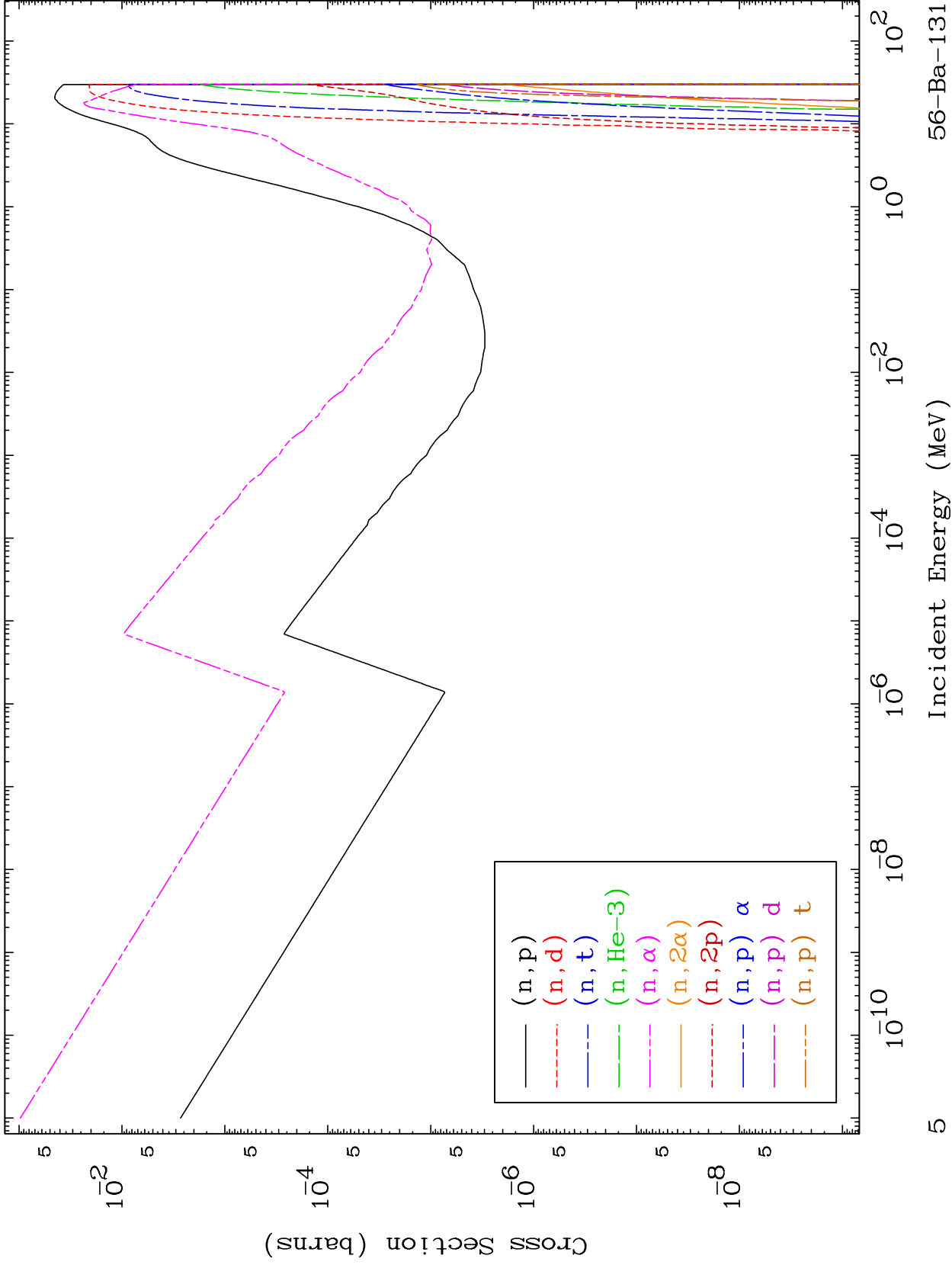
Incident Energy (MeV)

56-Ba-131

MAT 5628

Charged Particle
293 Kelvin Cross Sections

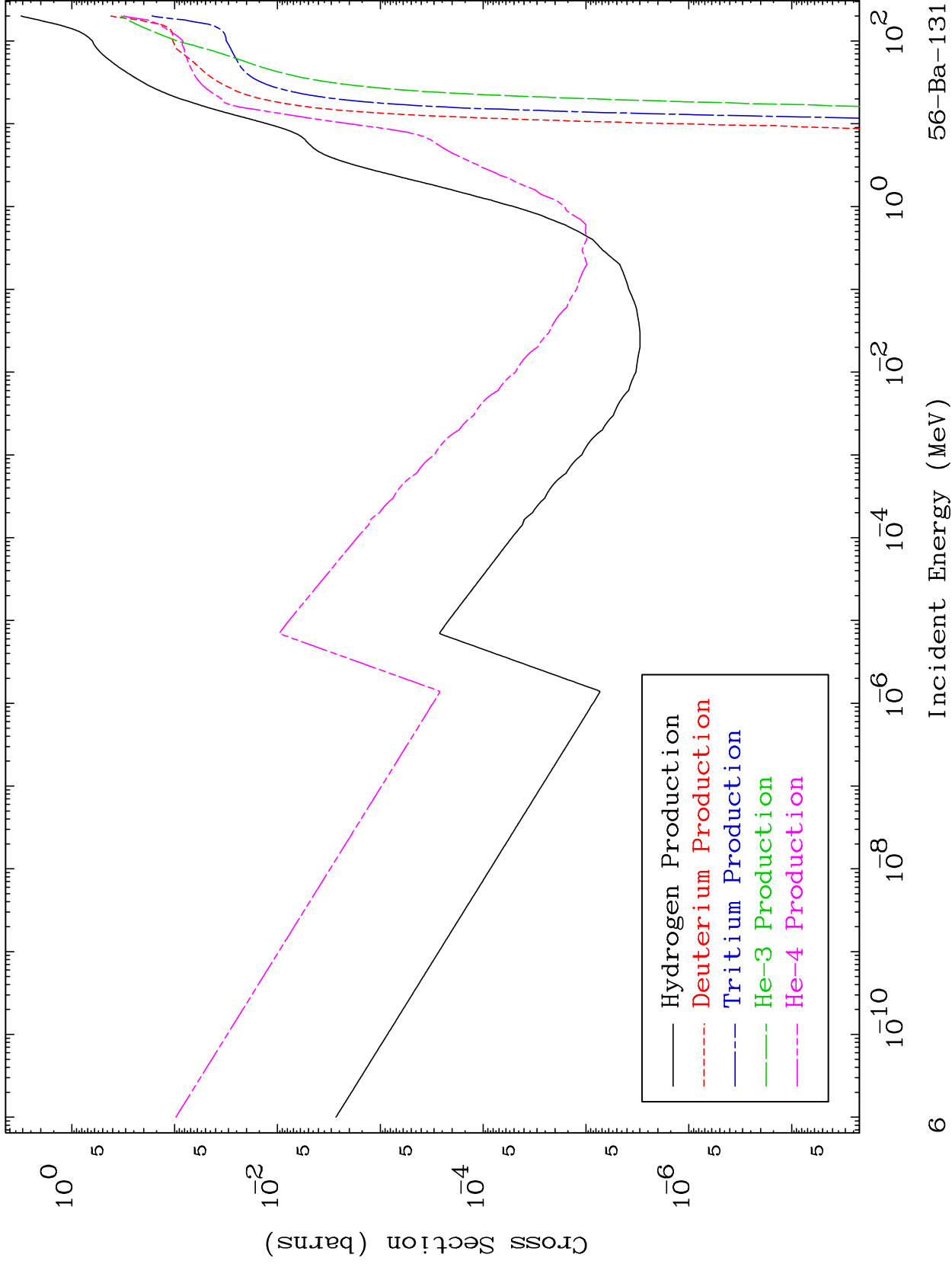
56-Ba-131



MAT 5628

Particle Production
293 Kelvin Cross Sections

56-Ba-131

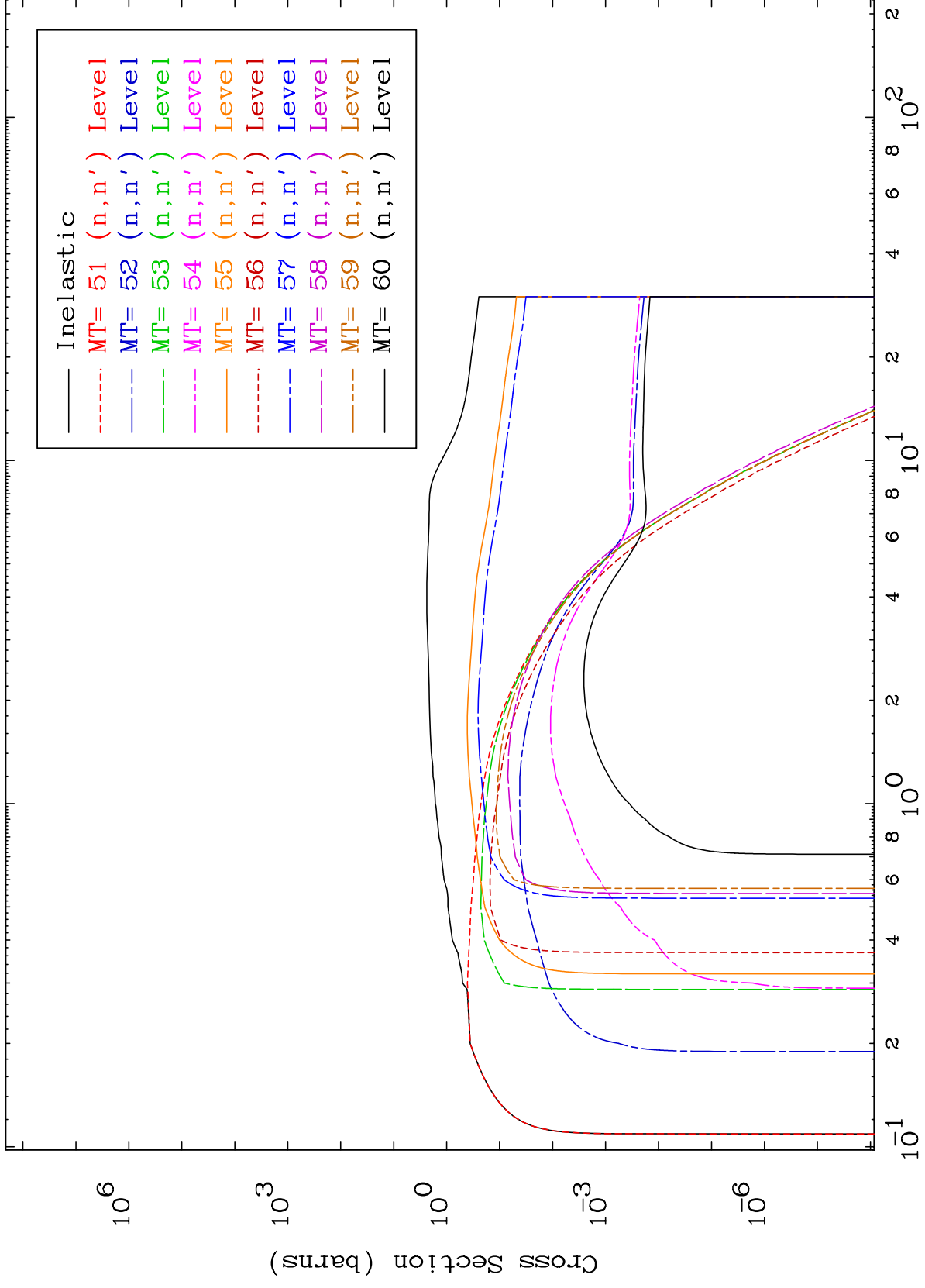


MAT 5628

(n,n') Level

56-Ba-131

293 Kelvin Cross Sections



Incident Energy (MeV)

56-Ba-131

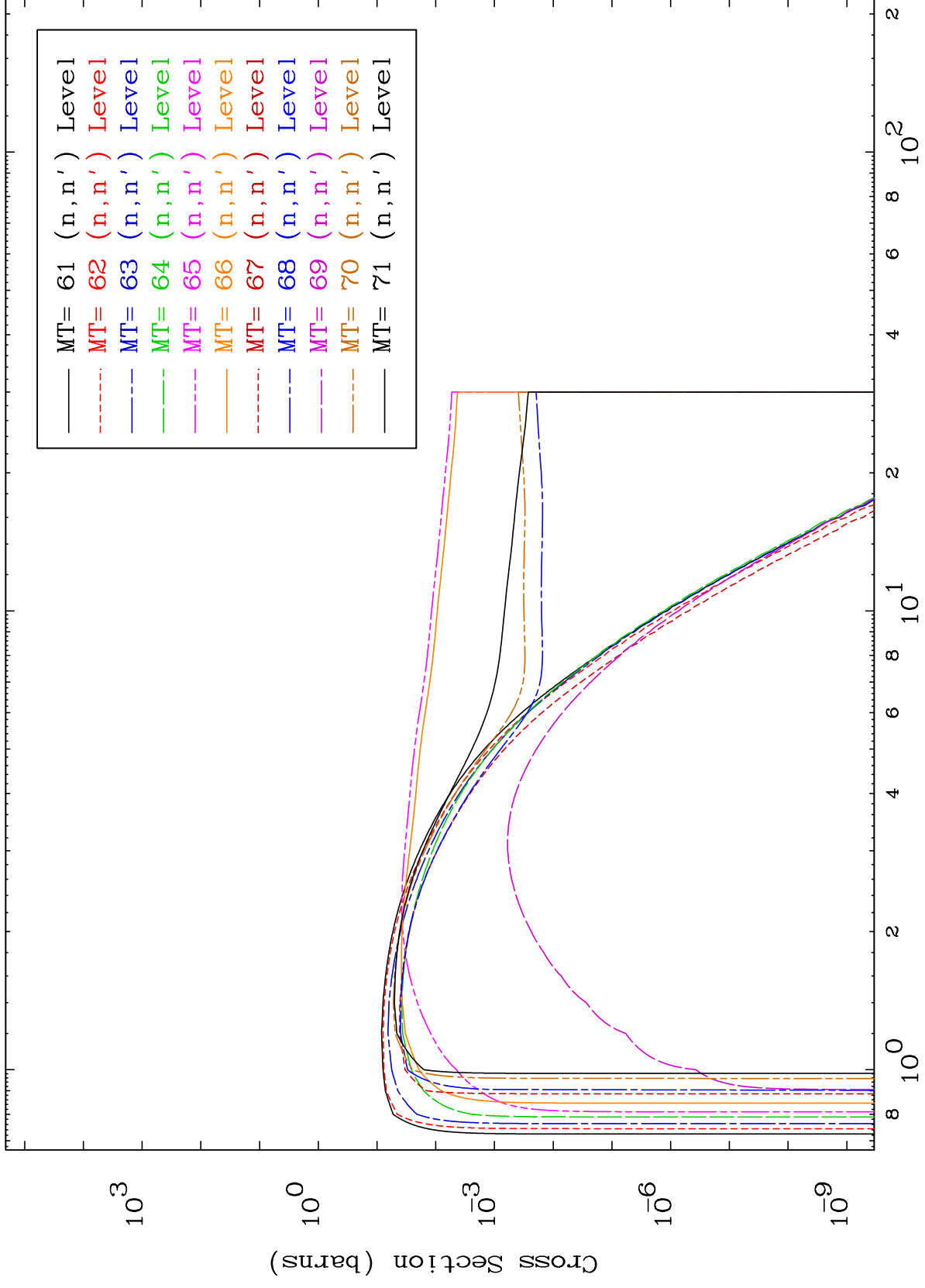
7

MAT 5628

(n,n') Level

56-Ba-131

293 Kelvin Cross Sections



8

Incident Energy (MeV)

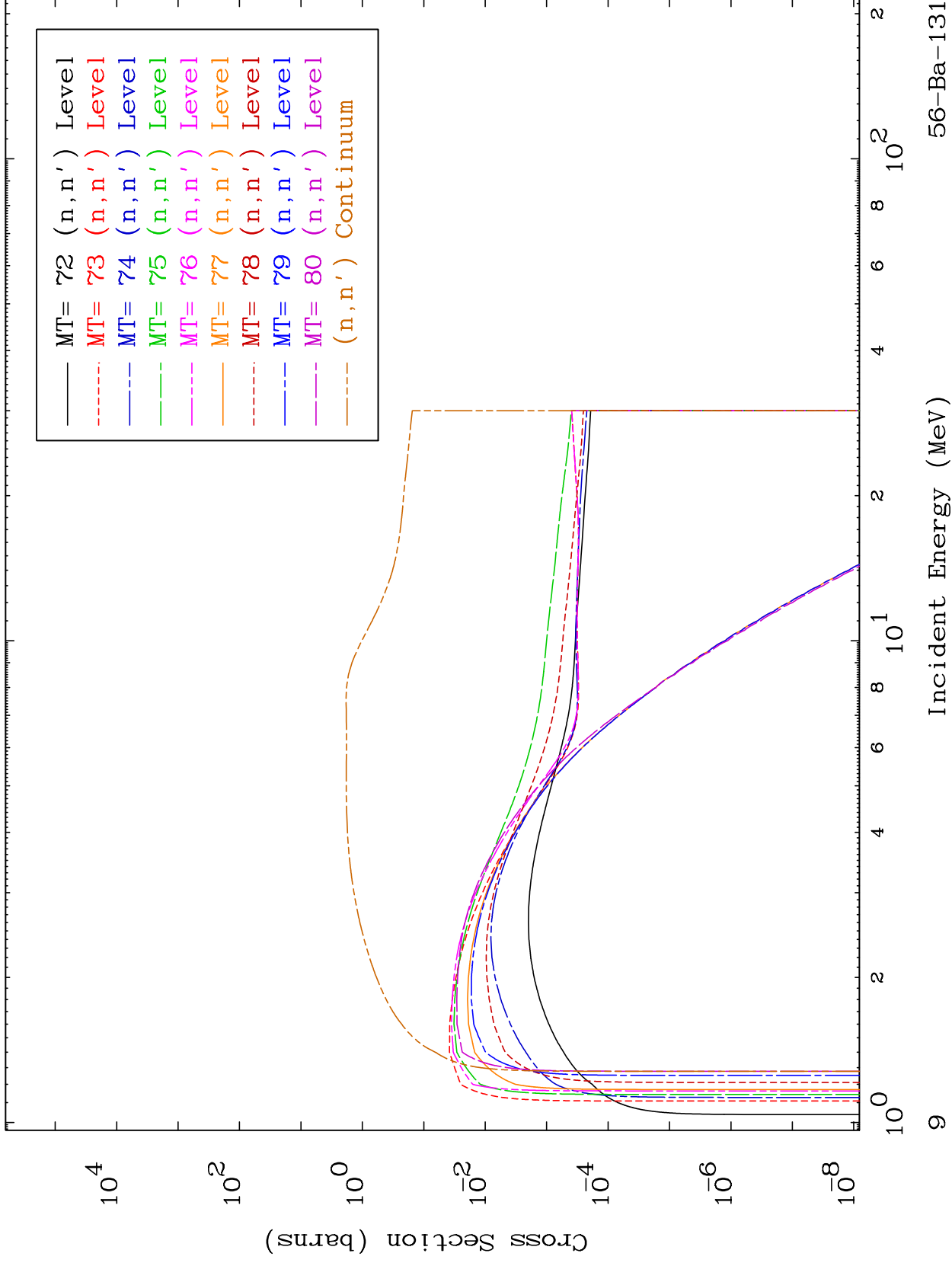
56-Ba-131

MAT 5628

(n,n') Level

56-Ba-131

293 Kelvin Cross Sections



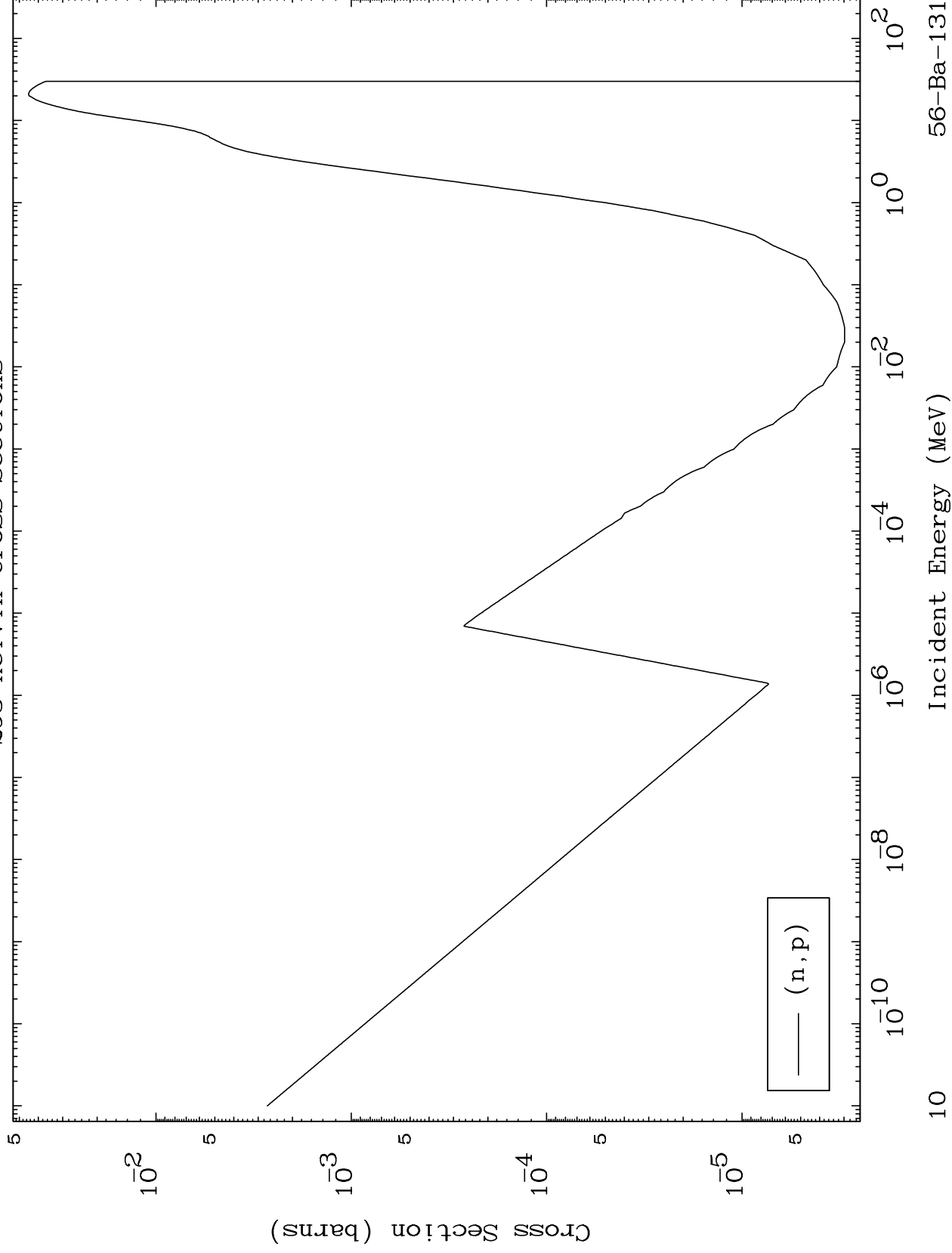
Incident Energy (MeV)

56-Ba-131

MAT 5628

(n,p) Levels
293 Kelvin Cross Sections

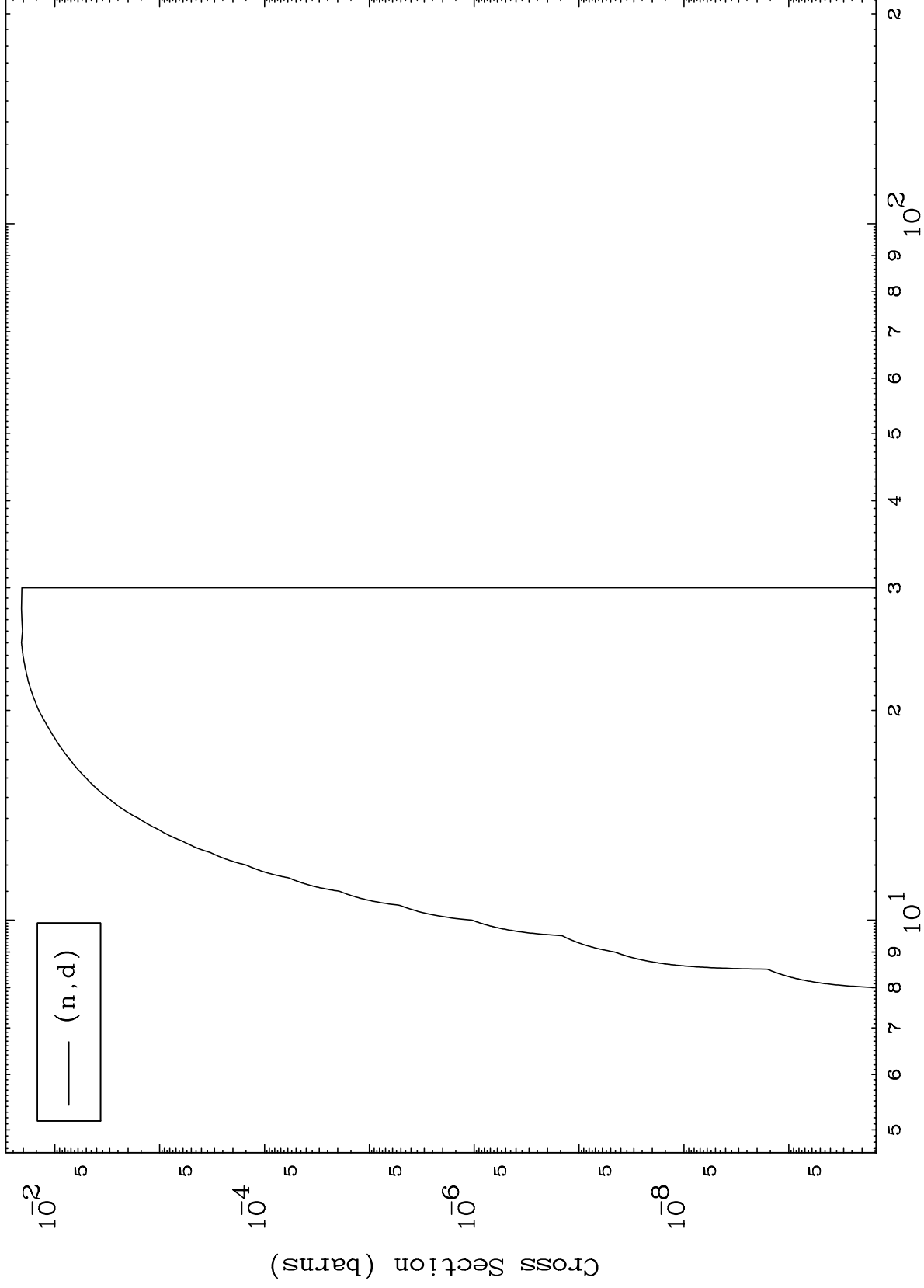
56-Ba-131



MAT 5628

(n,d) Levels
293 Kelvin Cross Sections

56-Ba-131



11

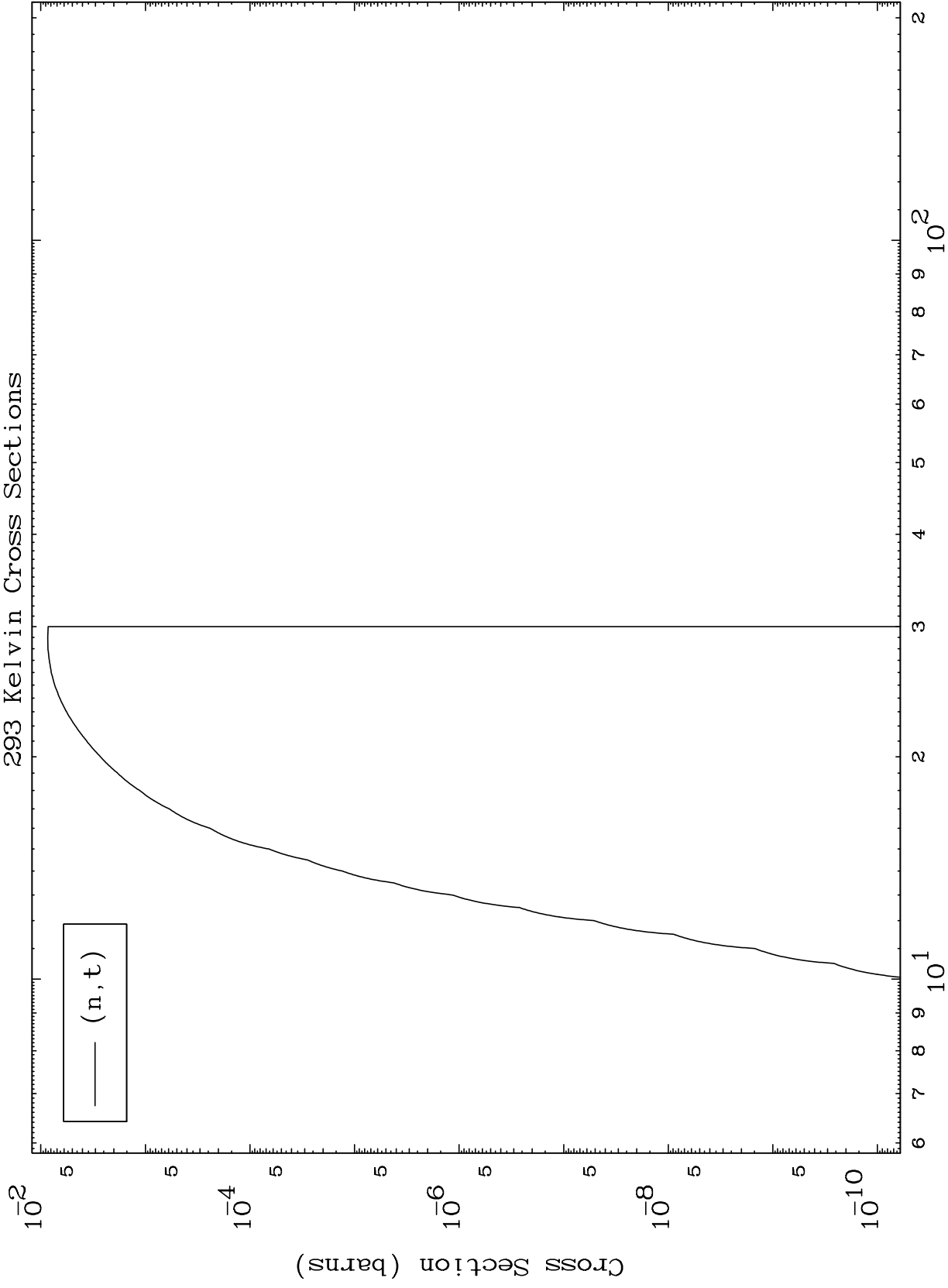
Incident Energy (MeV)

56-Ba-131

MAT 5628

(n,t) Levels
293 Kelvin Cross Sections

56-Ba-131



12

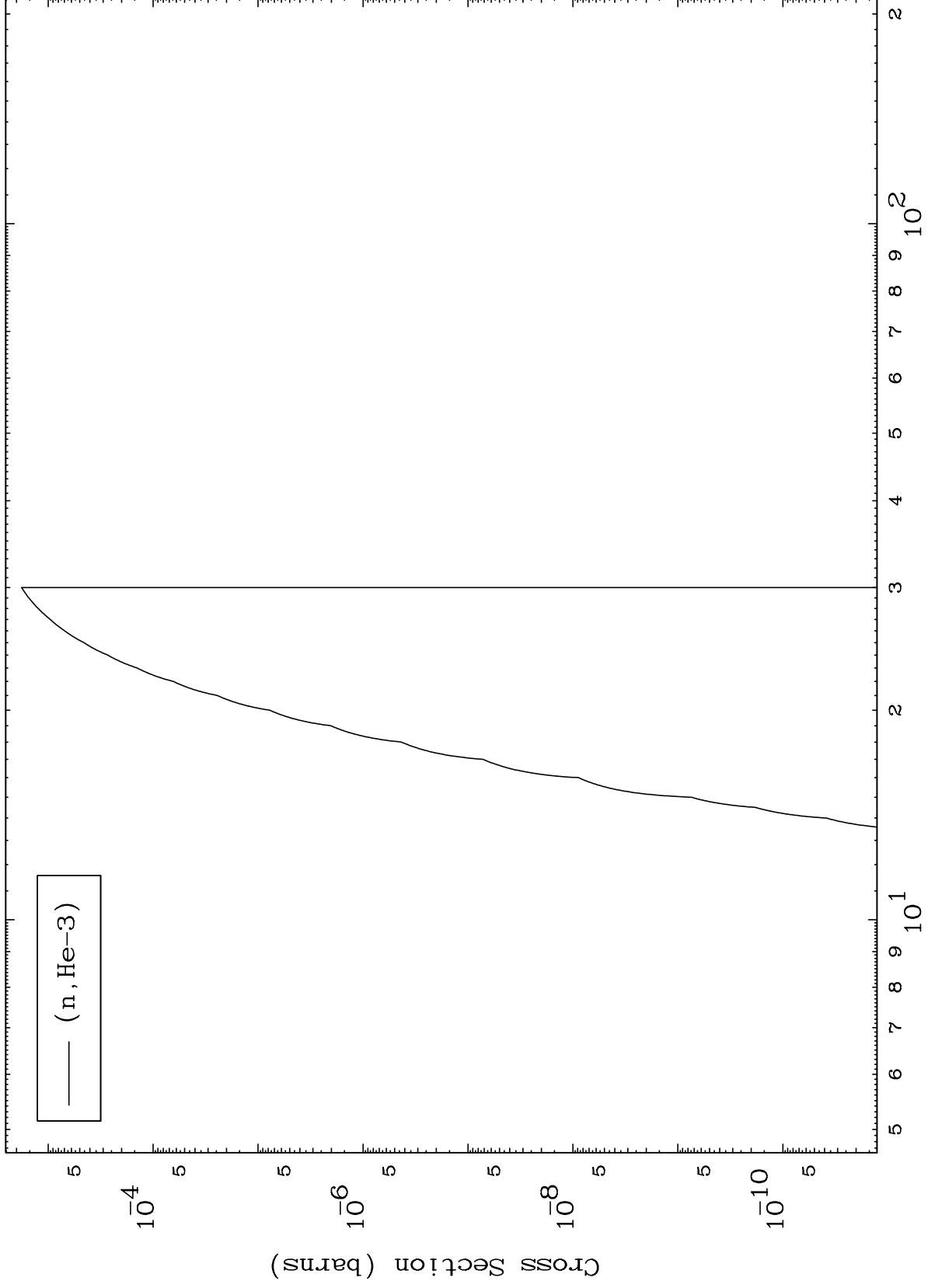
Incident Energy (MeV)

56-Ba-131

MAT 5628

(n,He3) Levels
293 Kelvin Cross Sections

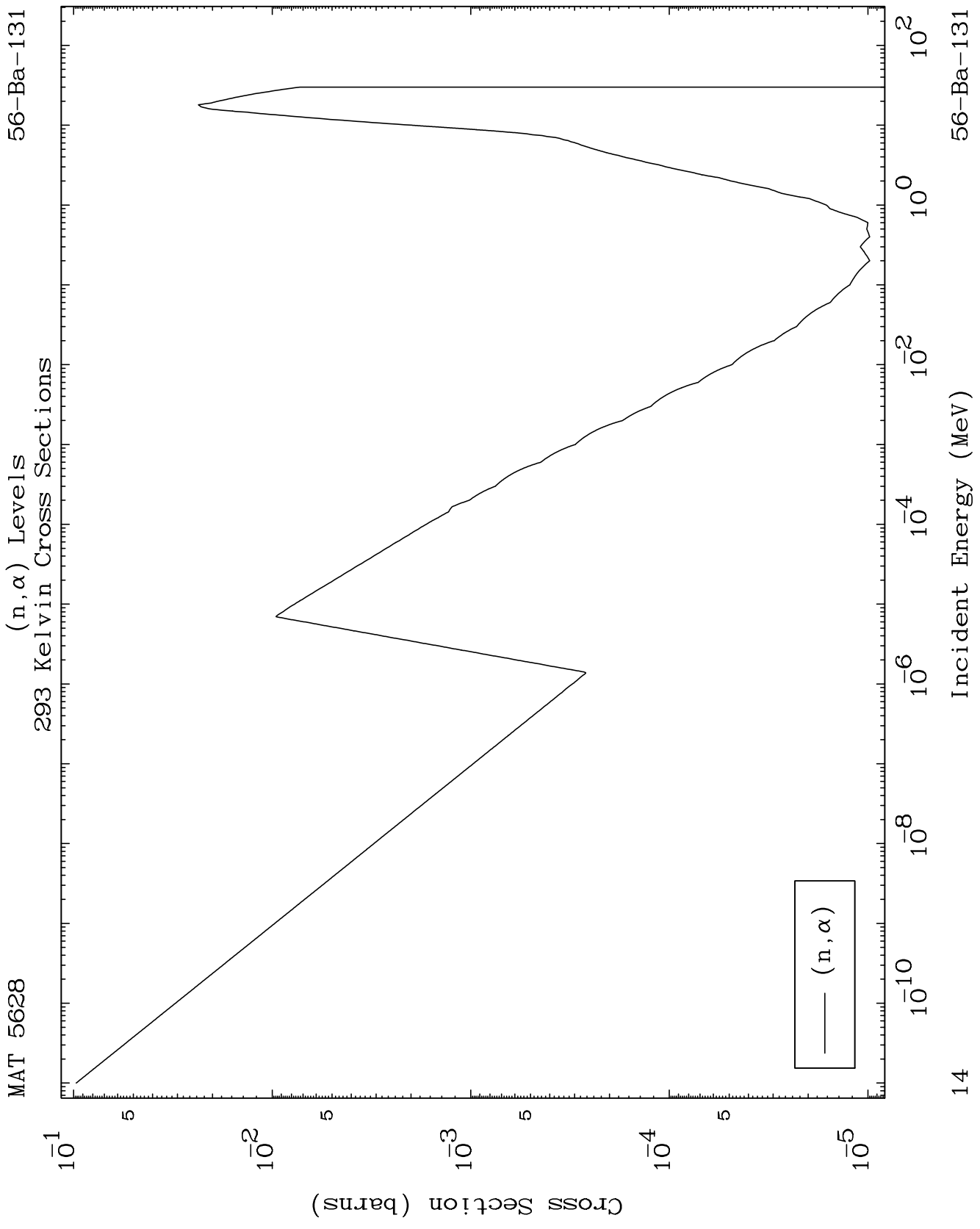
56-Ba-131

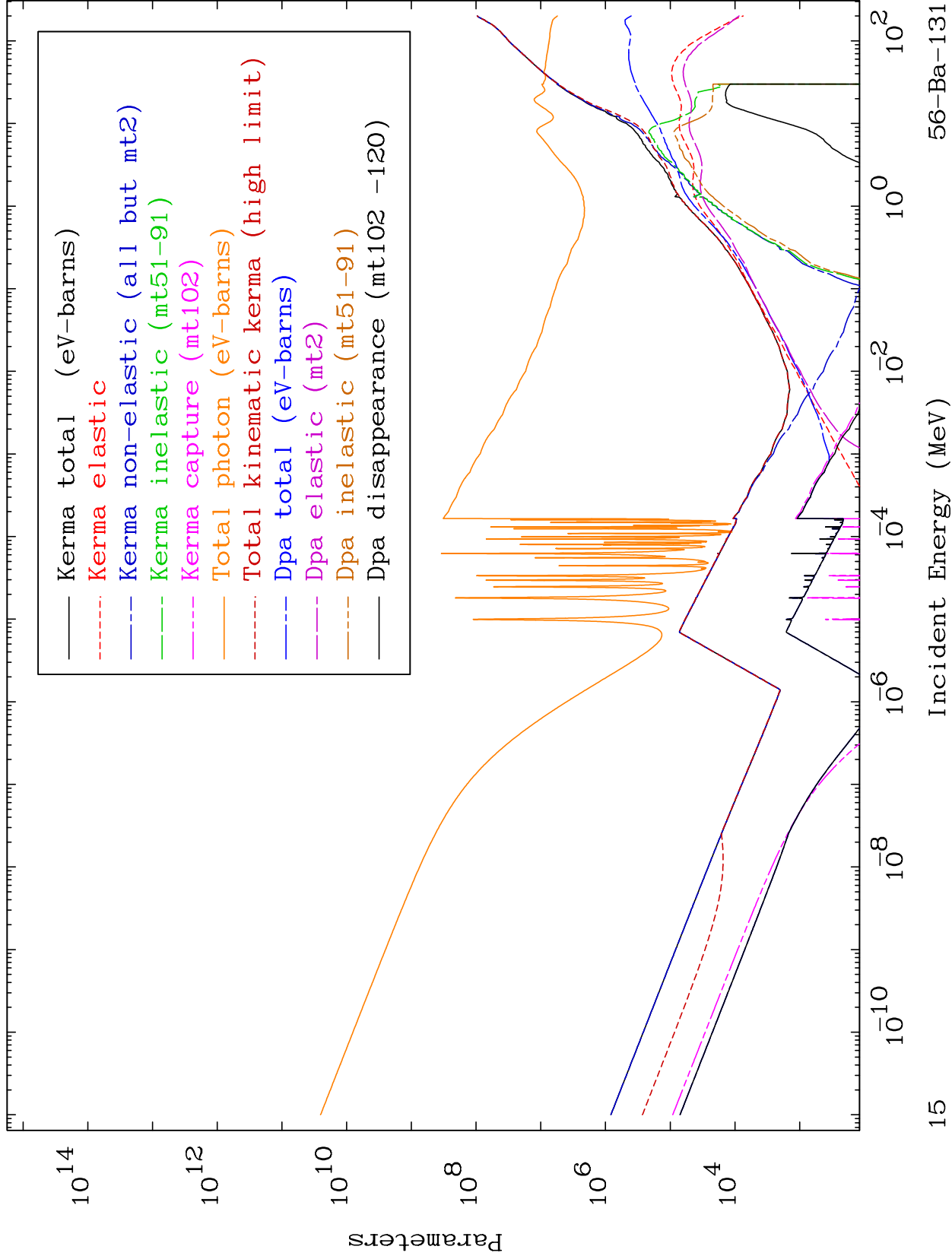


13

Incident Energy (MeV)

56-Ba-131

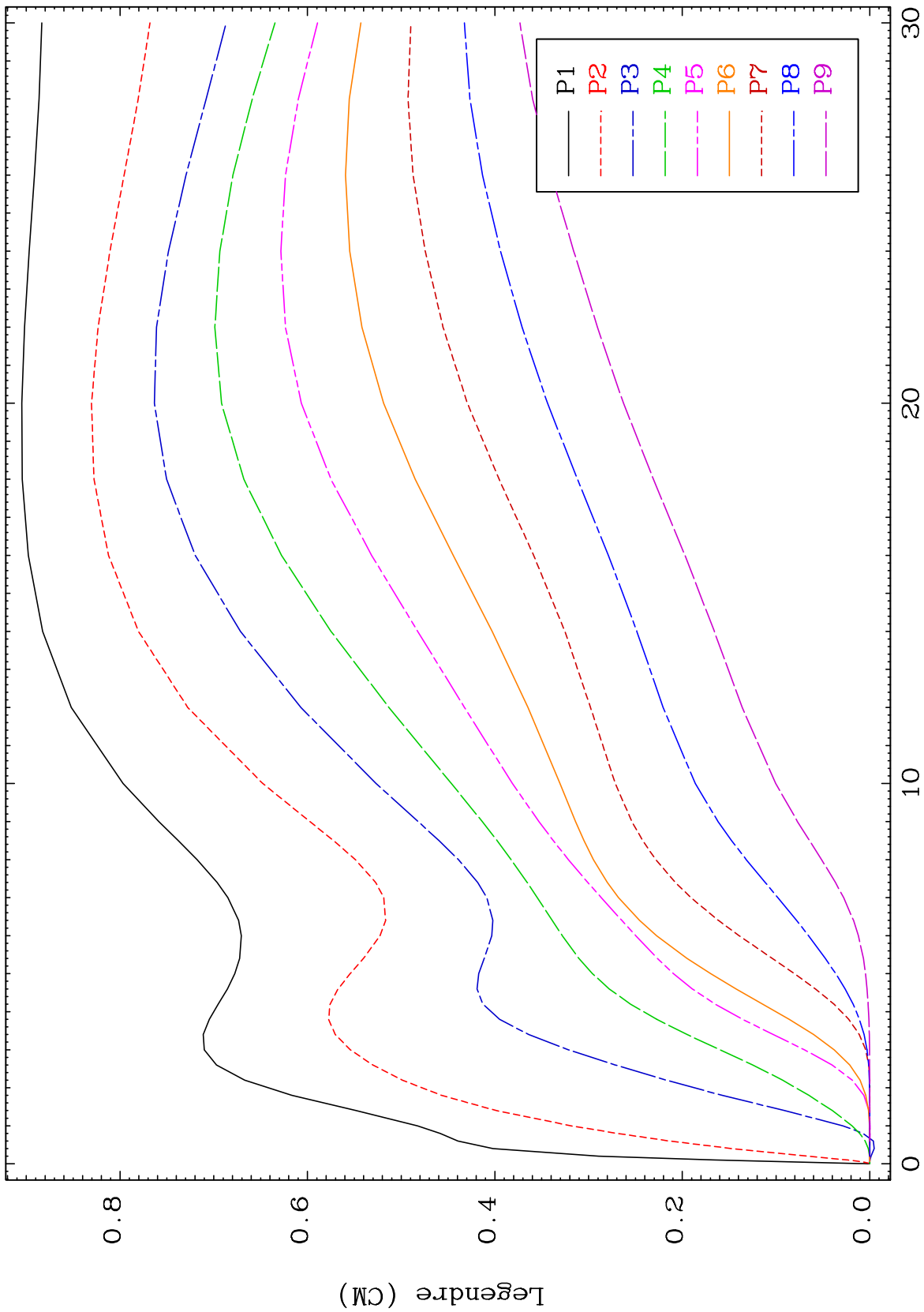




MAT 5628

Elastic Legendre Coefficients

56-Ba-131



16

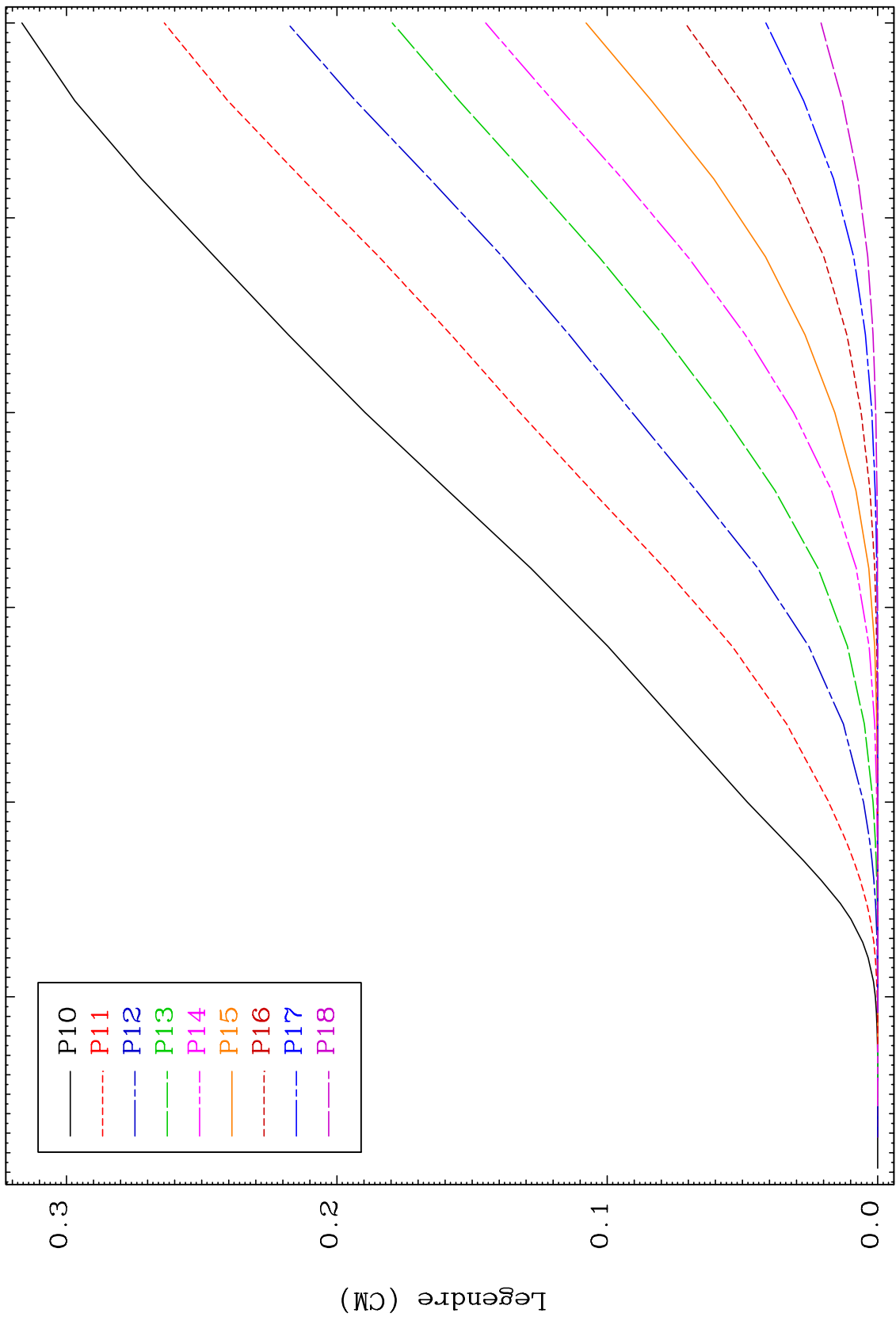
Incident Energy (MeV)

56-Ba-131

MAT 5628

Elastic Legendre Coefficients

56-Ba-131



17

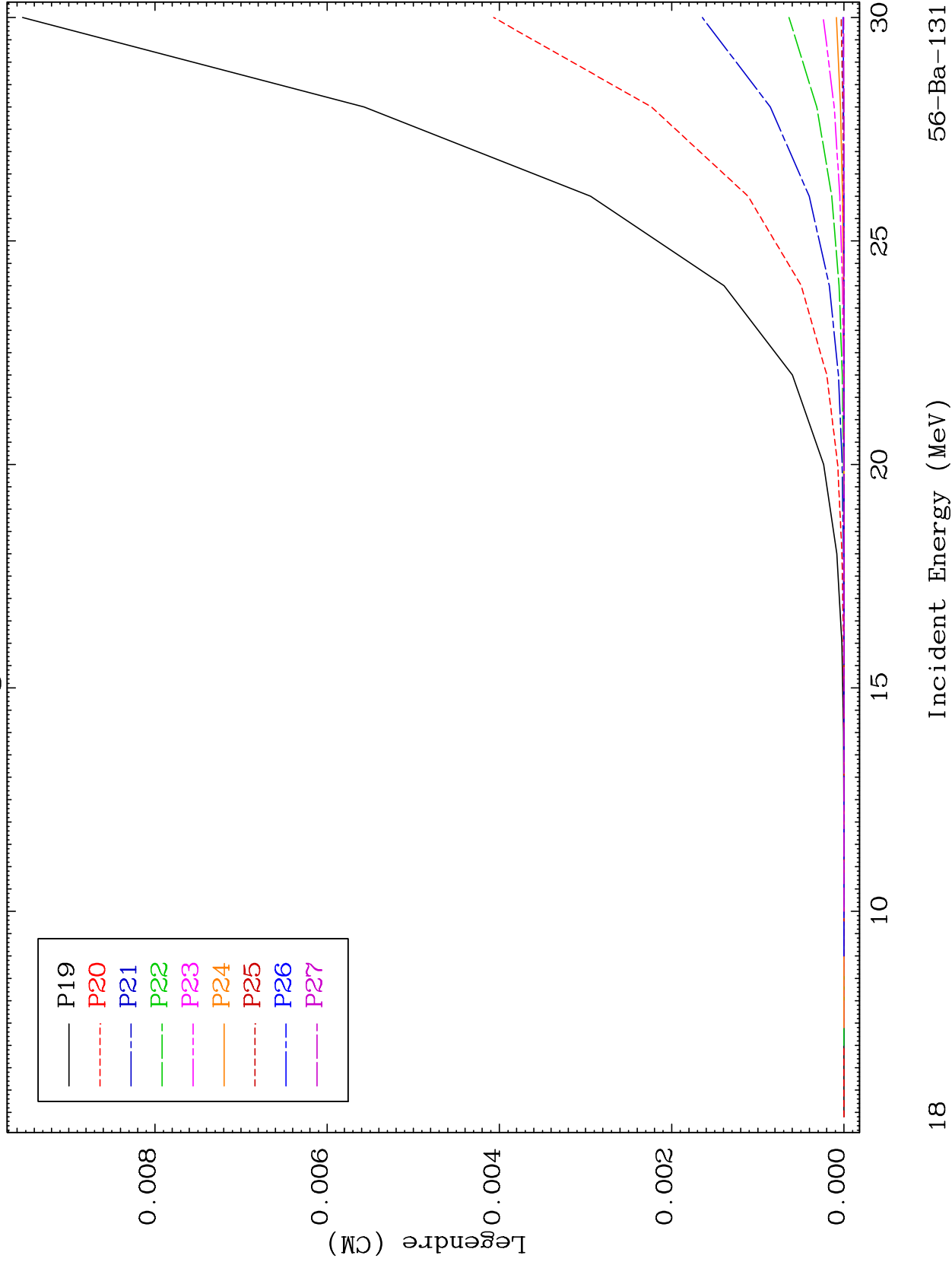
56-Ba-131

Incident Energy (MeV)

MAT 5628

Elastic Legendre Coefficients

56-Ba-131



18

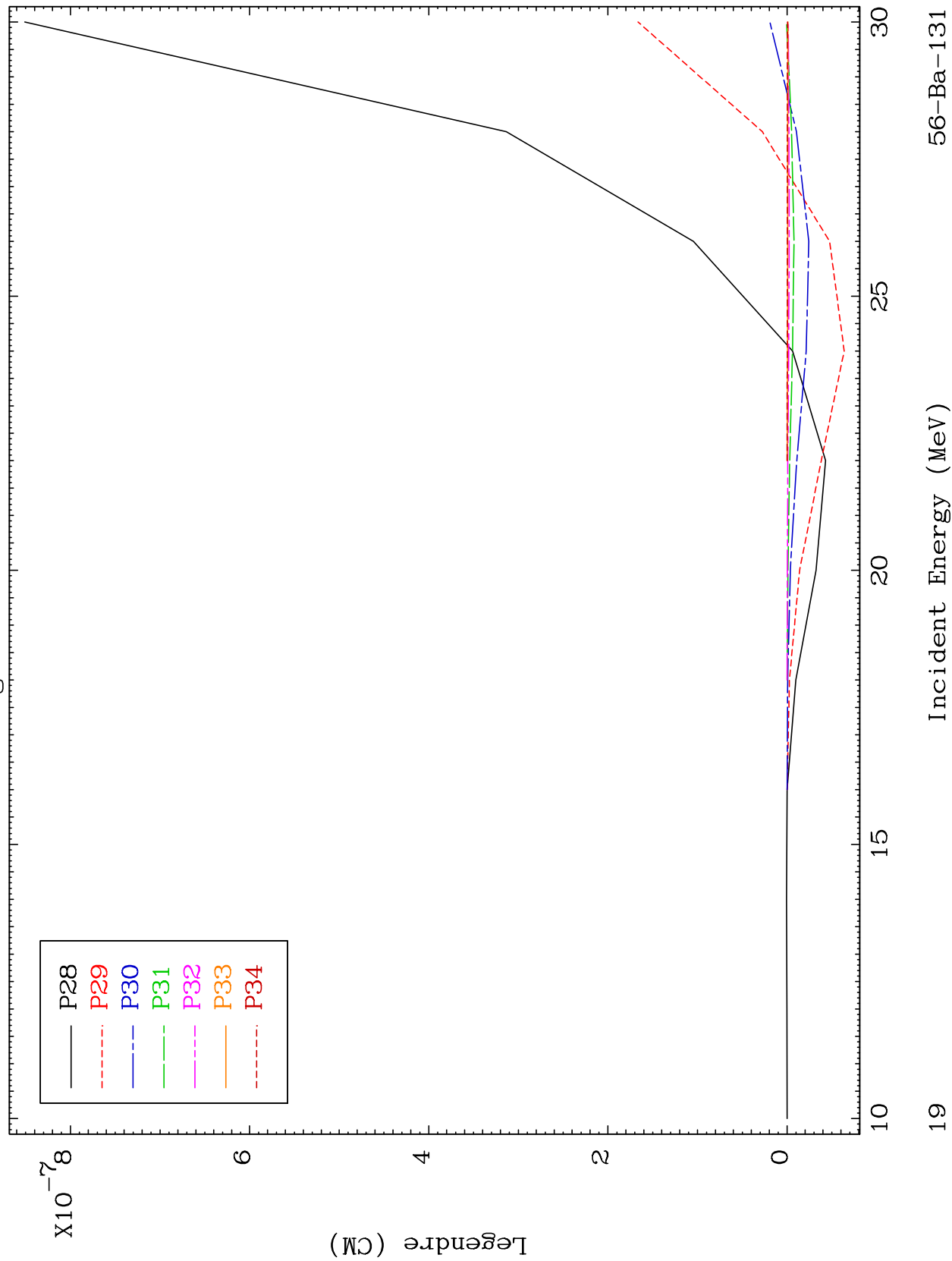
Incident Energy (MeV)

56-Ba-131

MAT 5628

Elastic Legendre Coefficients

56-Ba-131



56-Ba-131

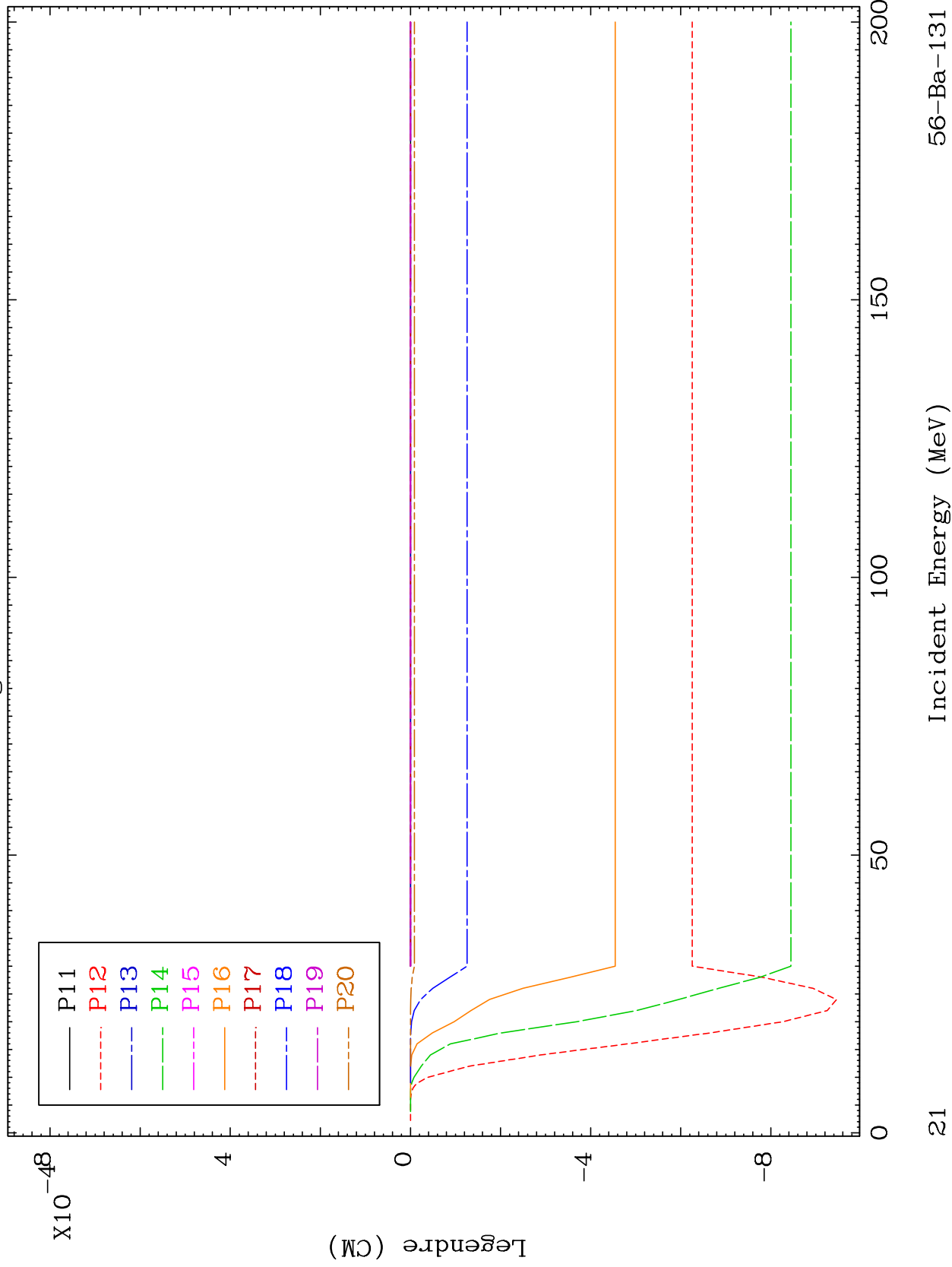
Incident Energy (MeV)

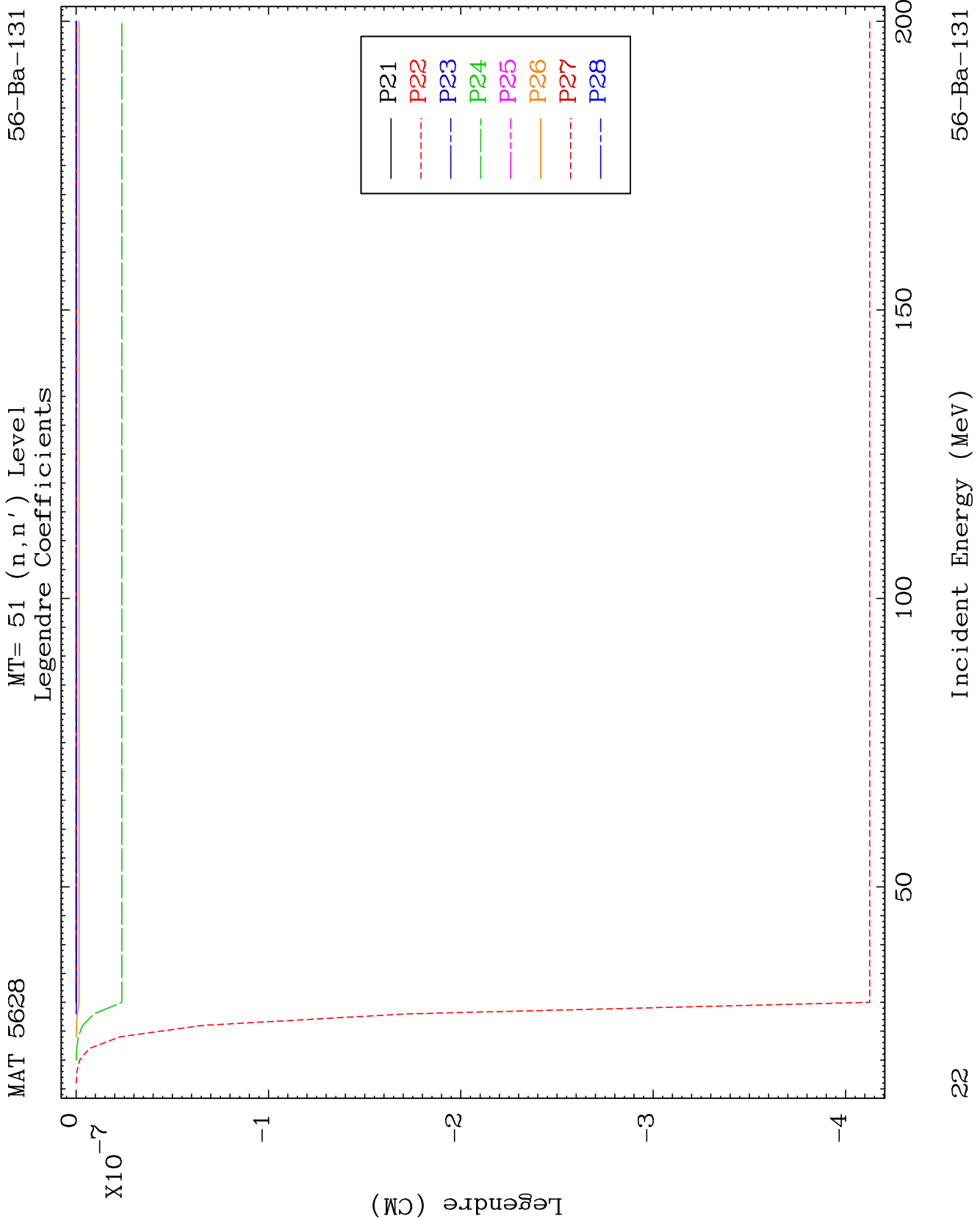
19

MAT 5628

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

56-Ba-131

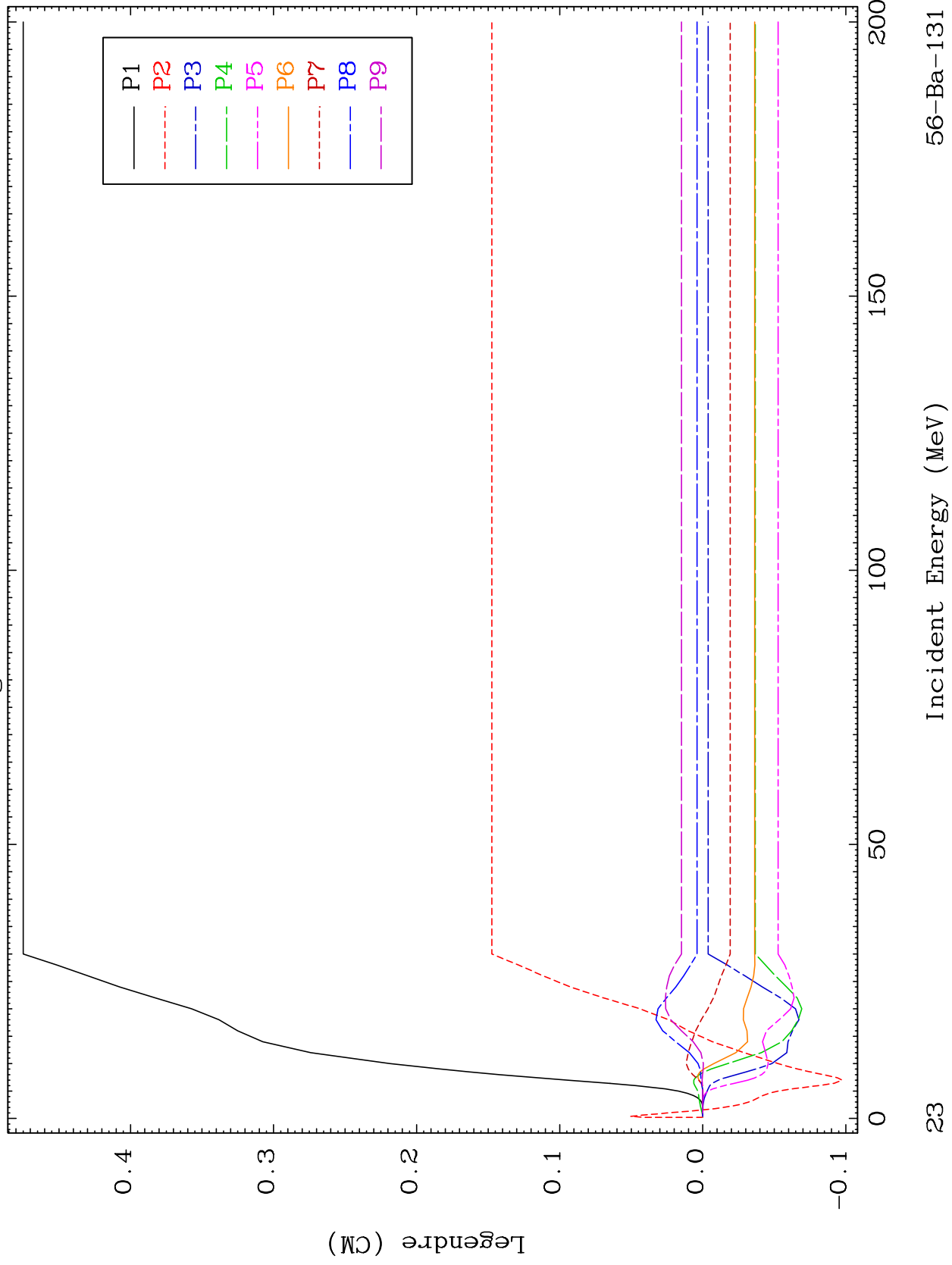




MAT 5628

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

56-Ba-131



56-Ba-131

Incident Energy (MeV)

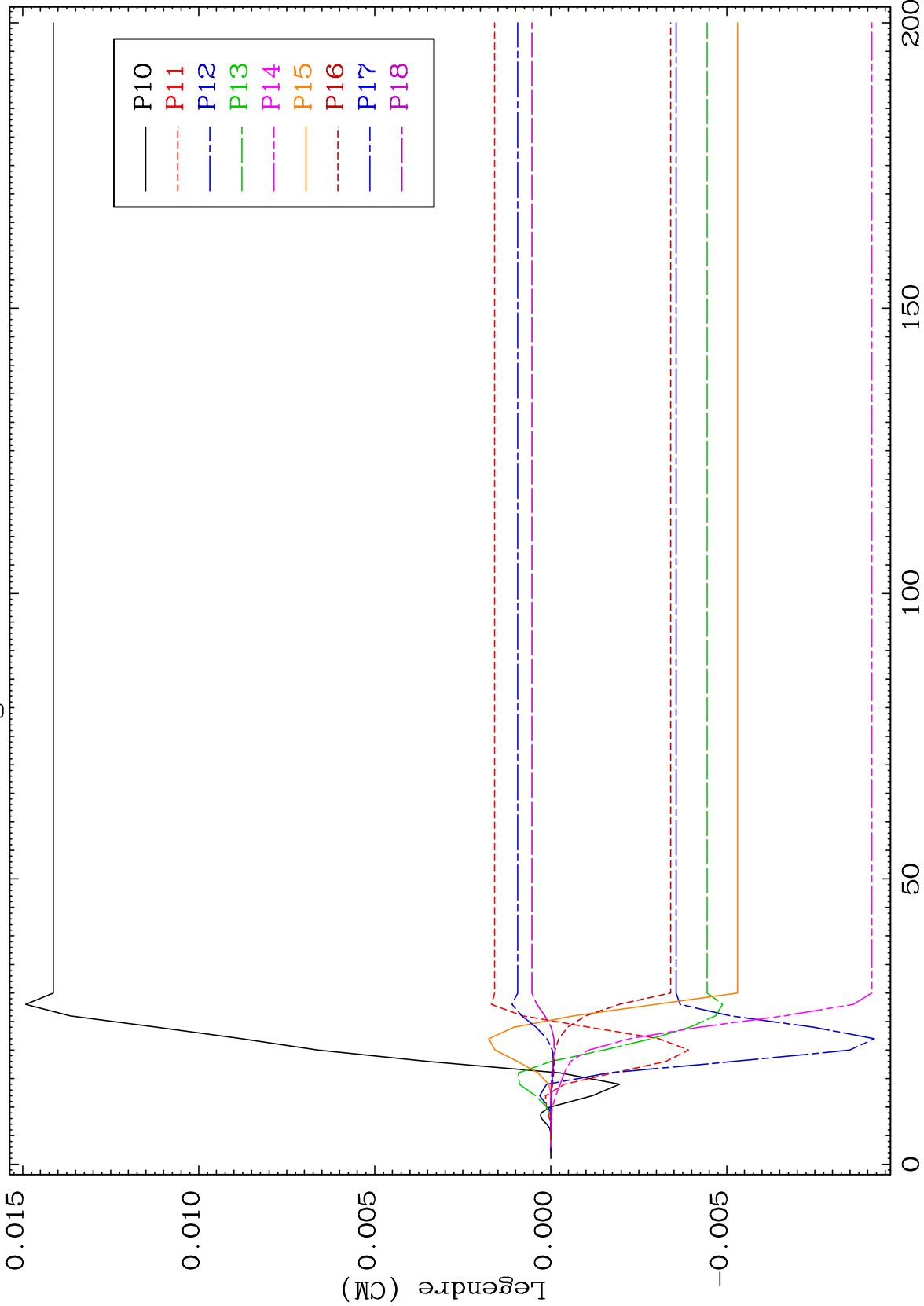
23

MAT 5628

MT= 52 (n,n') Level

56-Ba-131

Legendre Coefficients



24

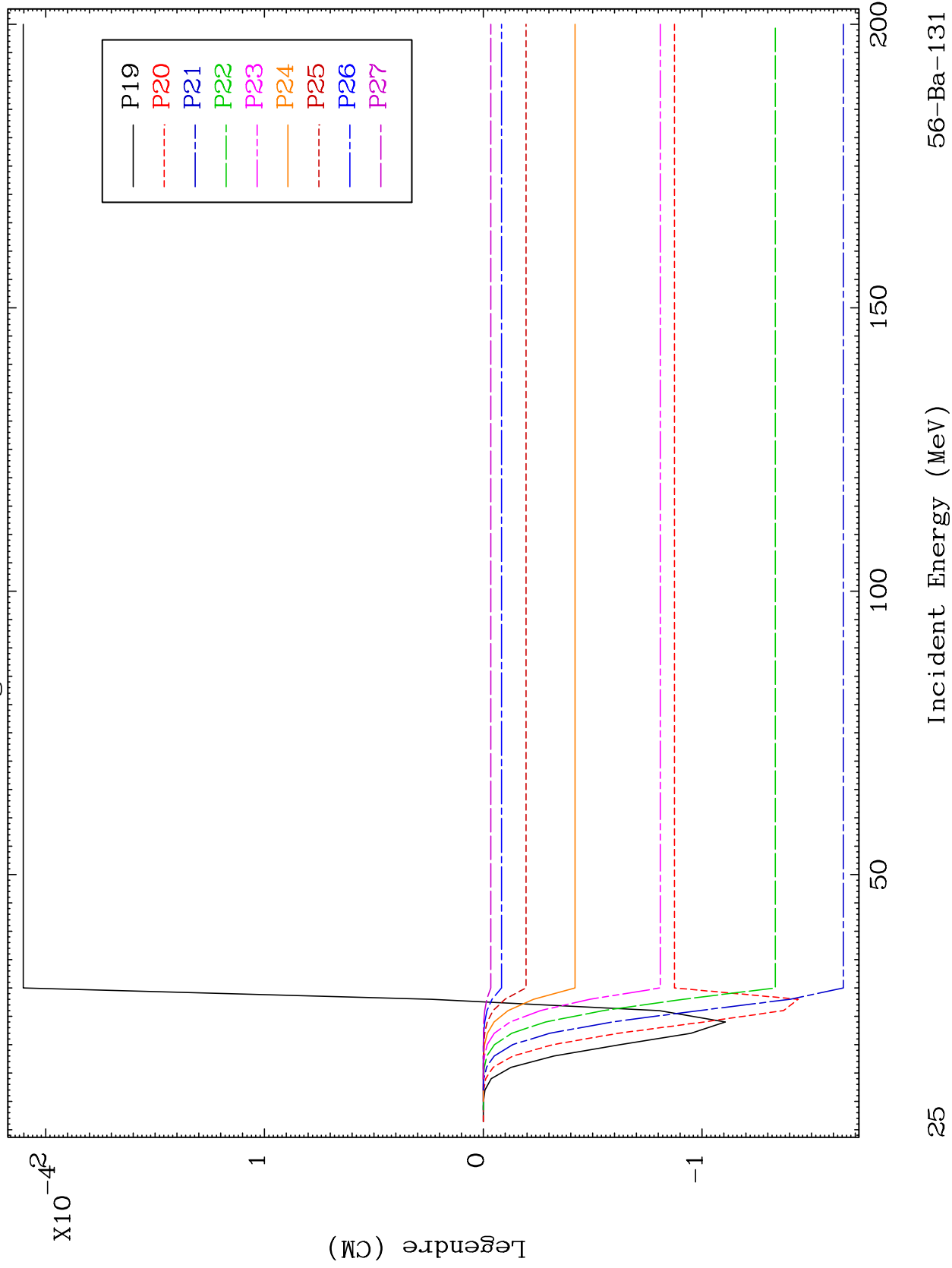
Incident Energy (MeV)

56-Ba-131

MAT 5628

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

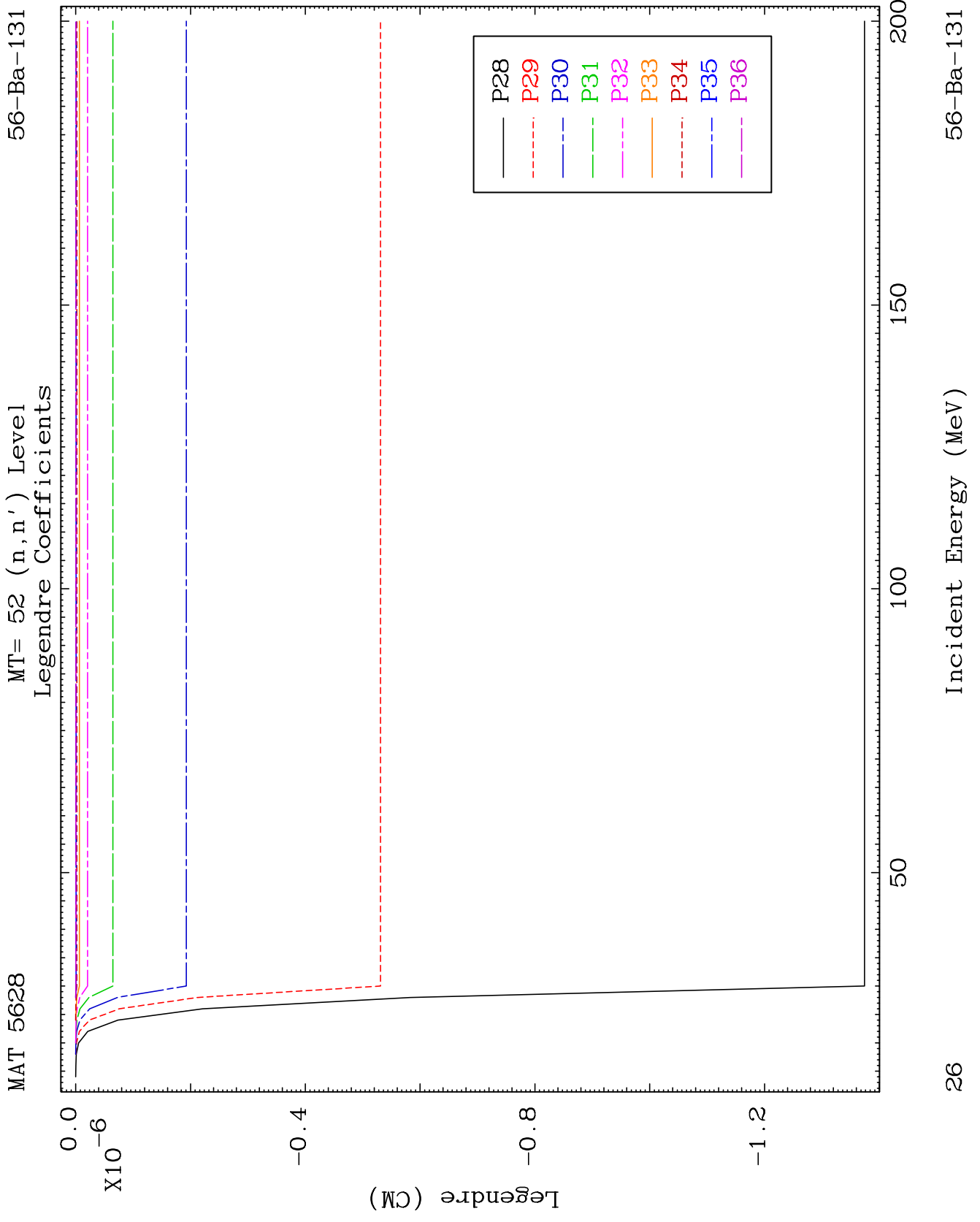
56-Ba-131

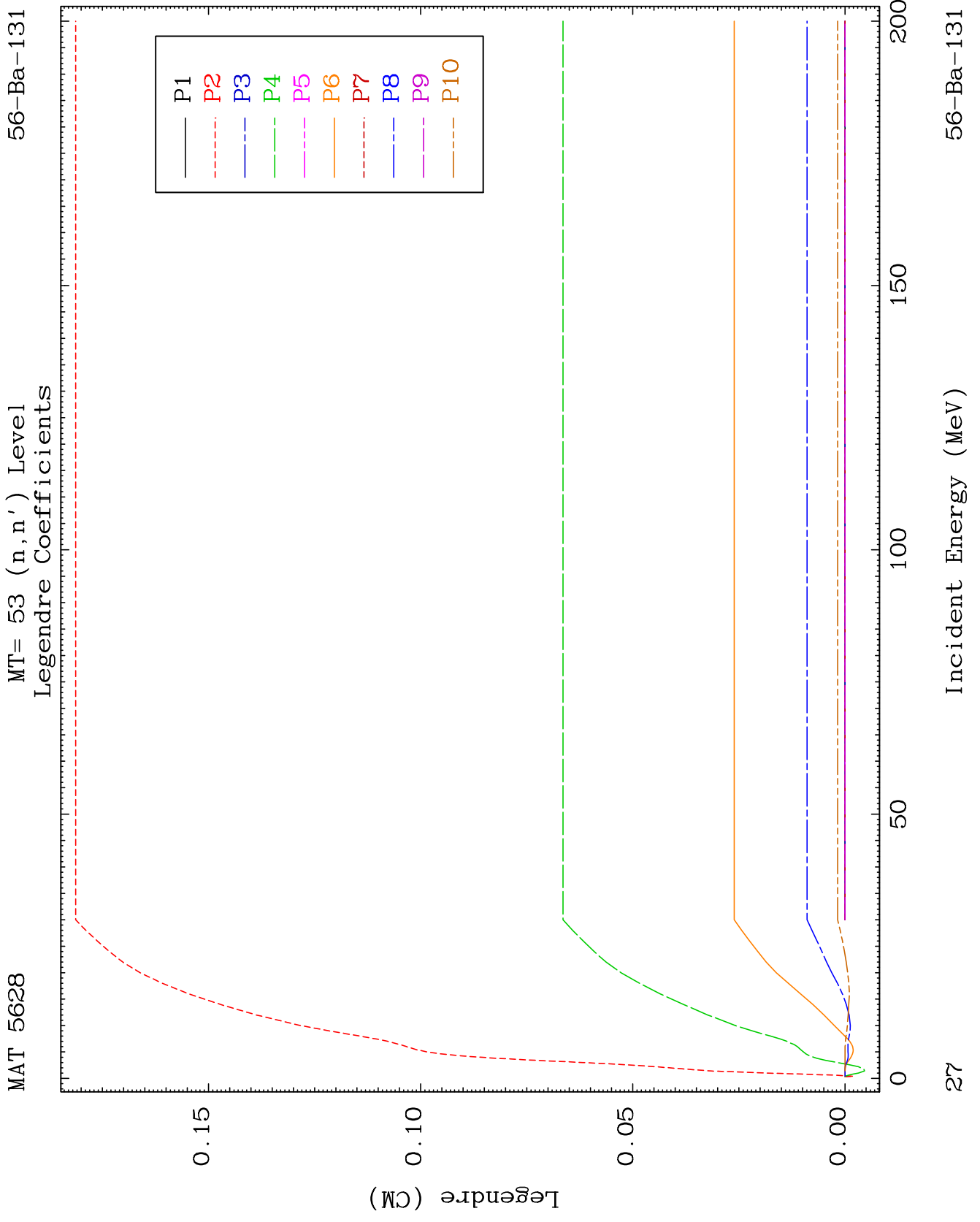


25

Incident Energy (MeV)

56-Ba-131

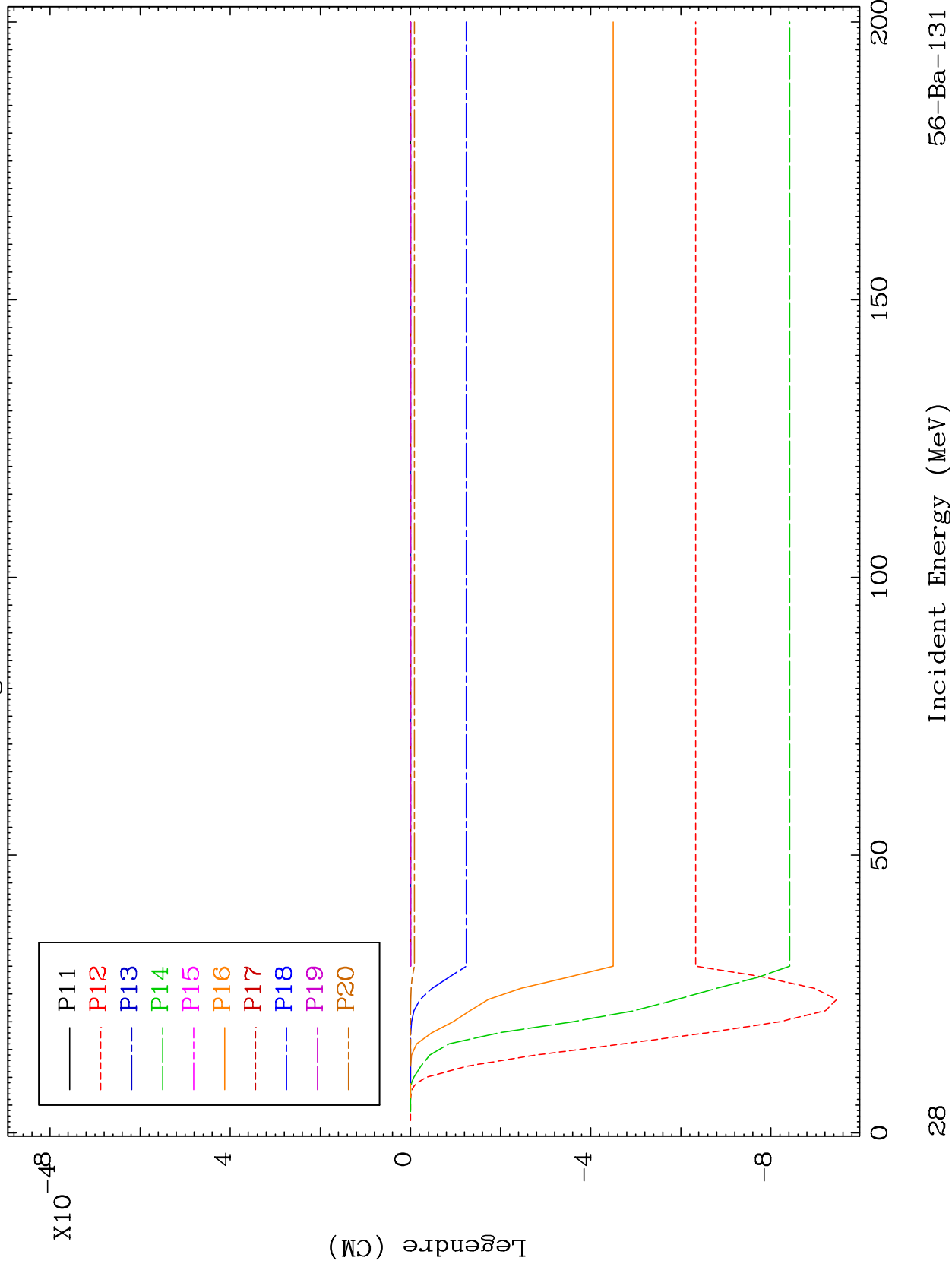




MAT 5628

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

56-Ba-131



56-Ba-131

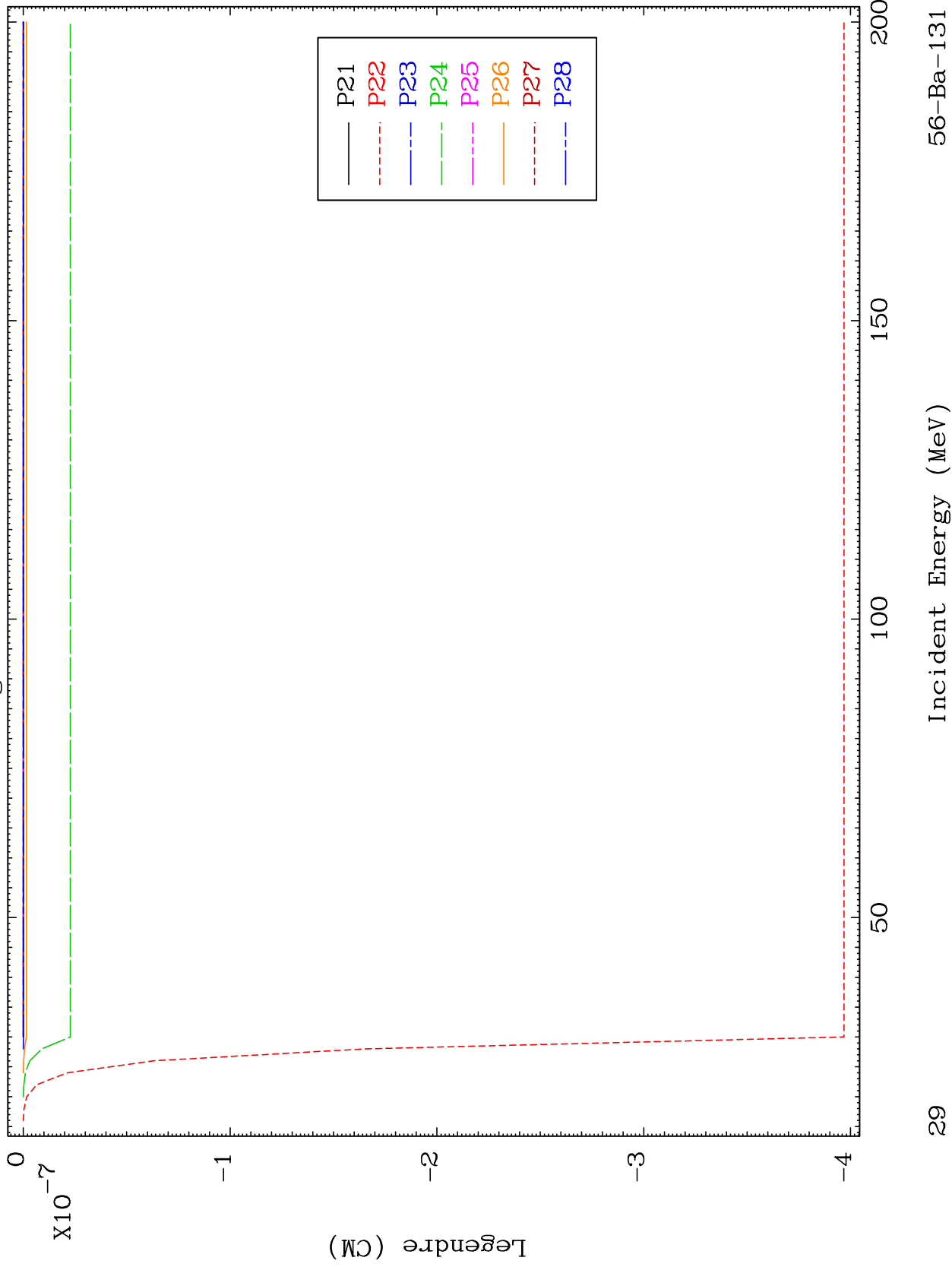
Incident Energy (MeV)

28

MAT 5628

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

56-Ba-131



29

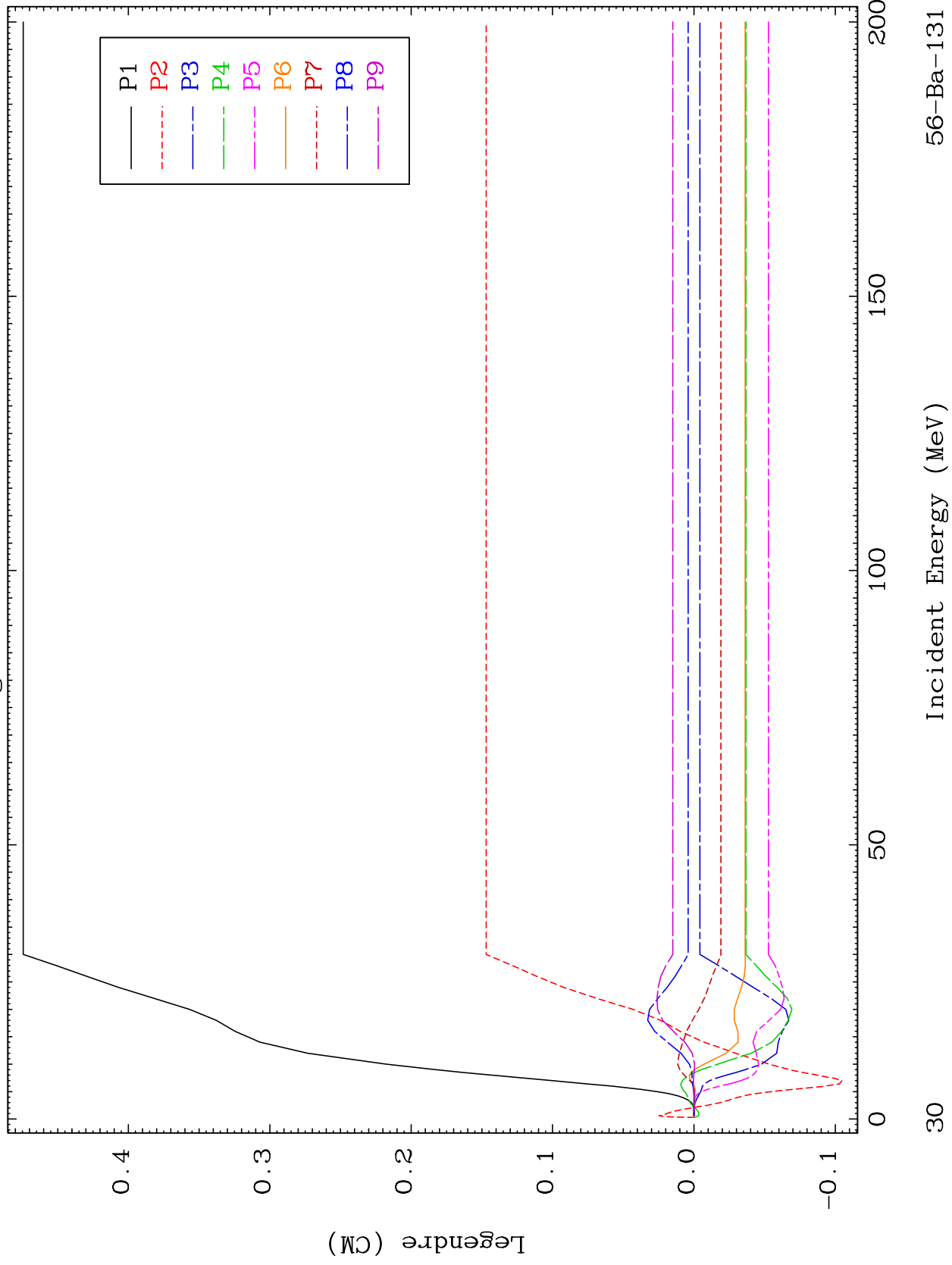
Incident Energy (MeV)

56-Ba-131

MAT 5628

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

56-Ba-131

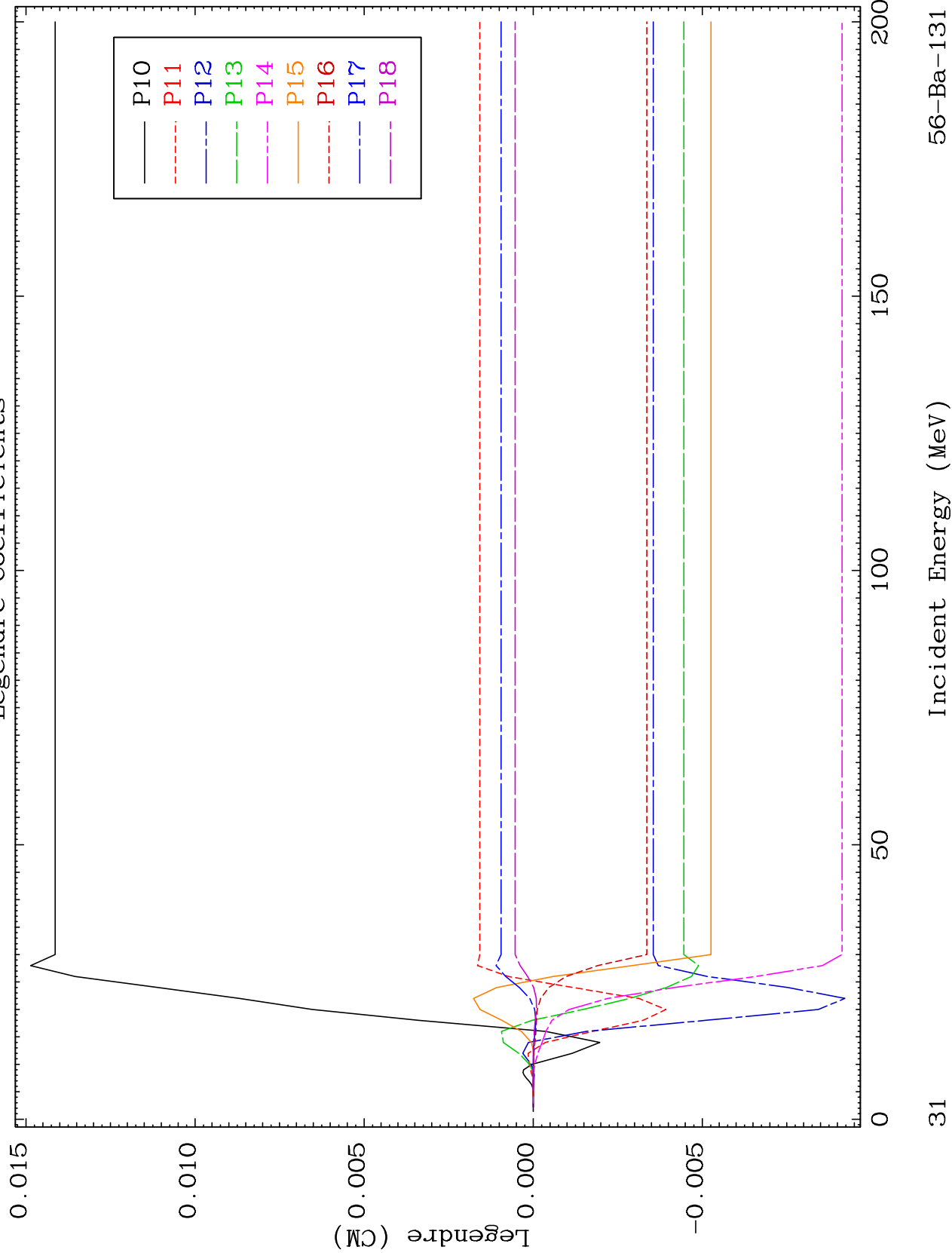


56-Ba-131

MAT 5628

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

56-Ba-131

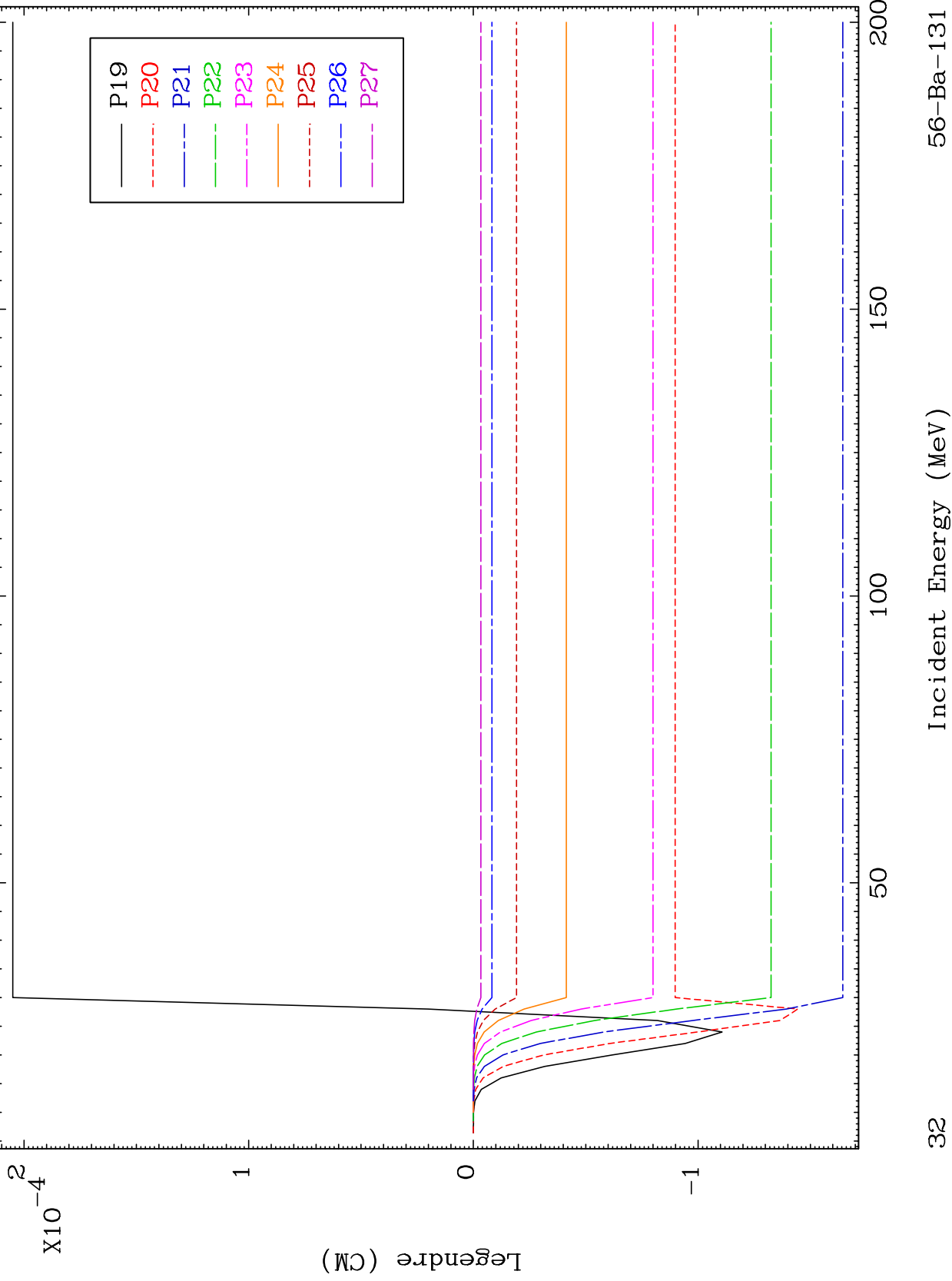


31

MAT 5628

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

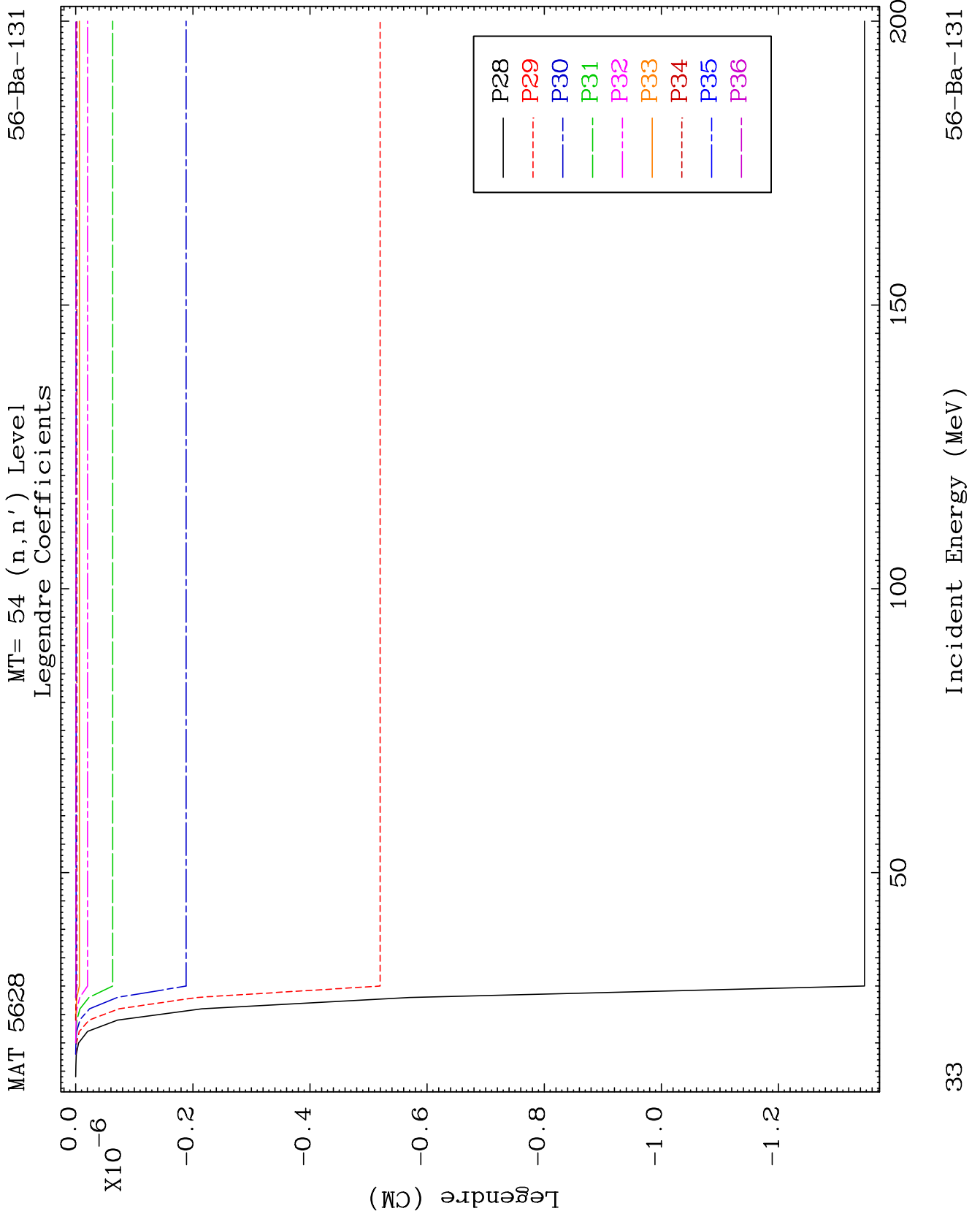
56-Ba-131



32

Incident Energy (MeV)

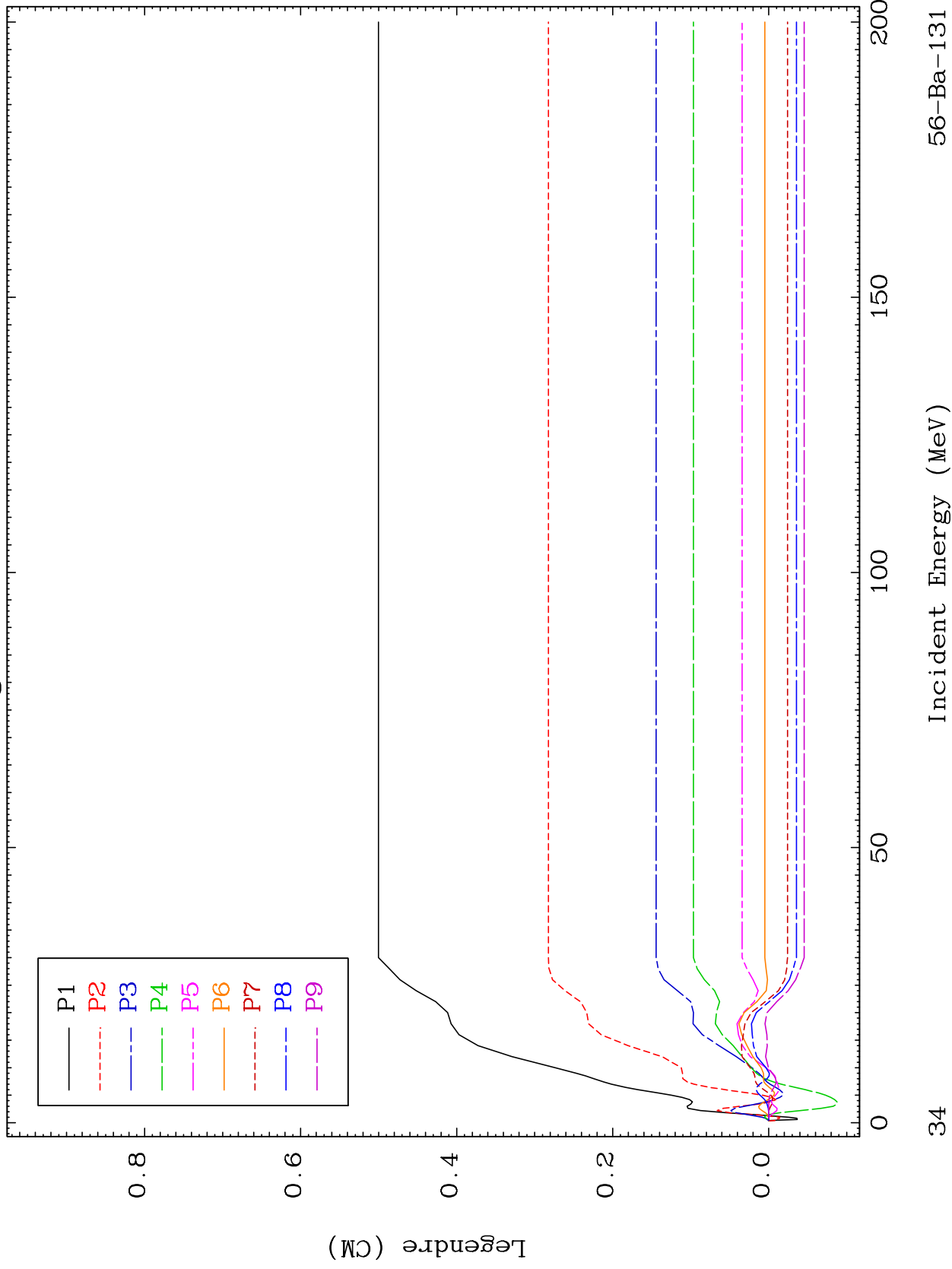
56-Ba-131



MAT 5628

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

56-Ba-131



56-Ba-131

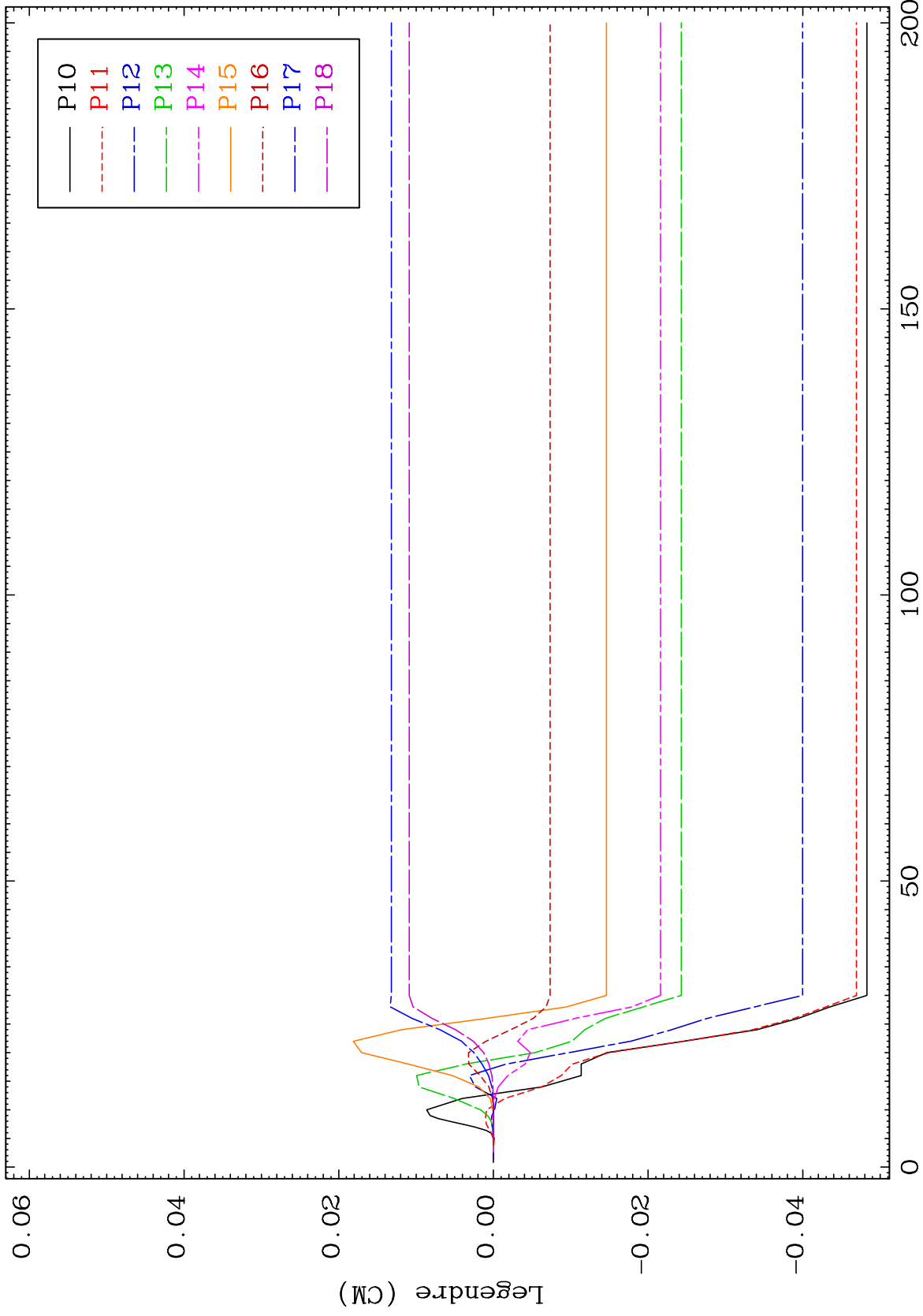
Incident Energy (MeV)

34

MAT 5628

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

56-Ba-131



35

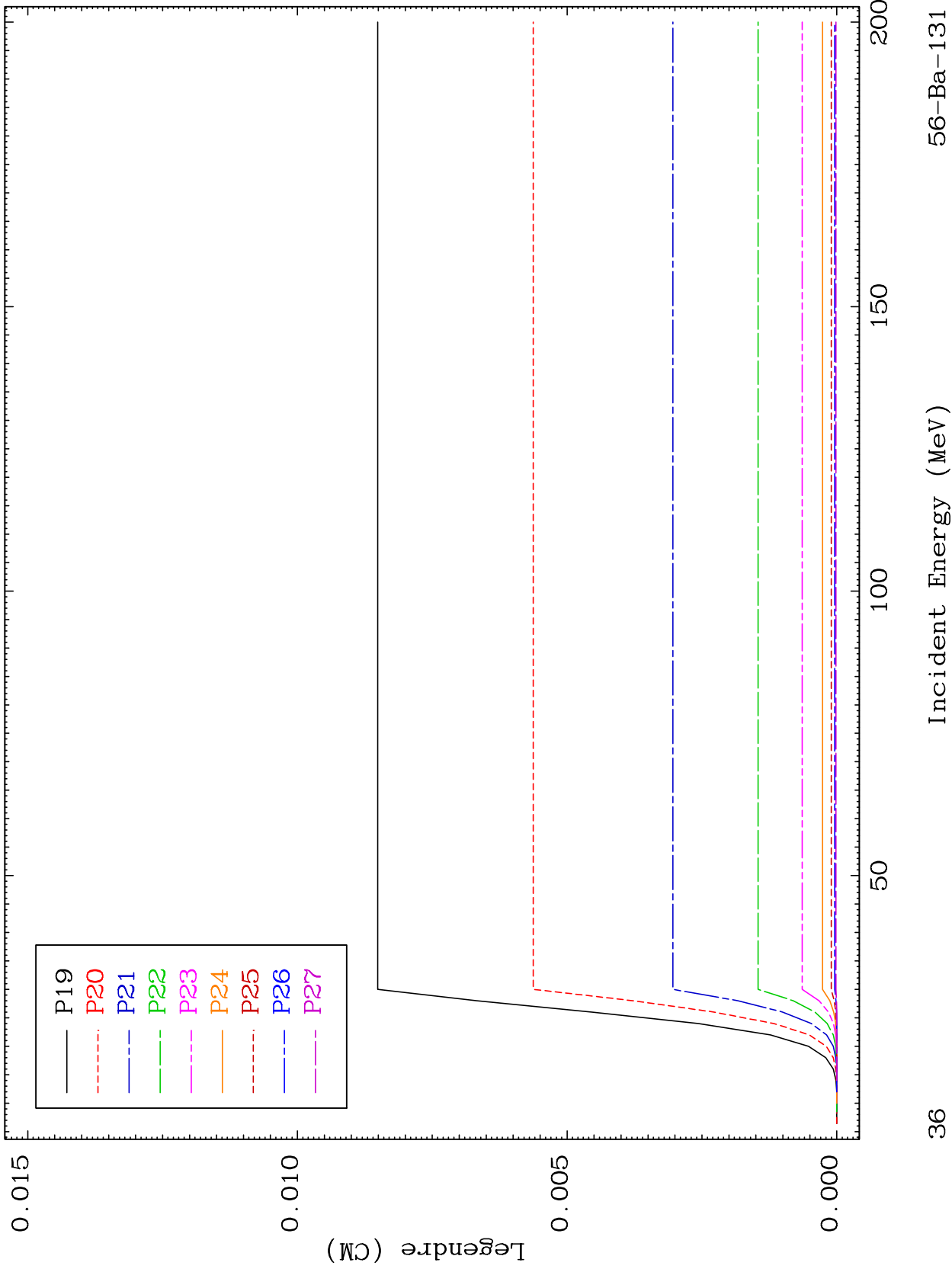
Incident Energy (MeV)

56-Ba-131

MAT 5628

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

56-Ba-131



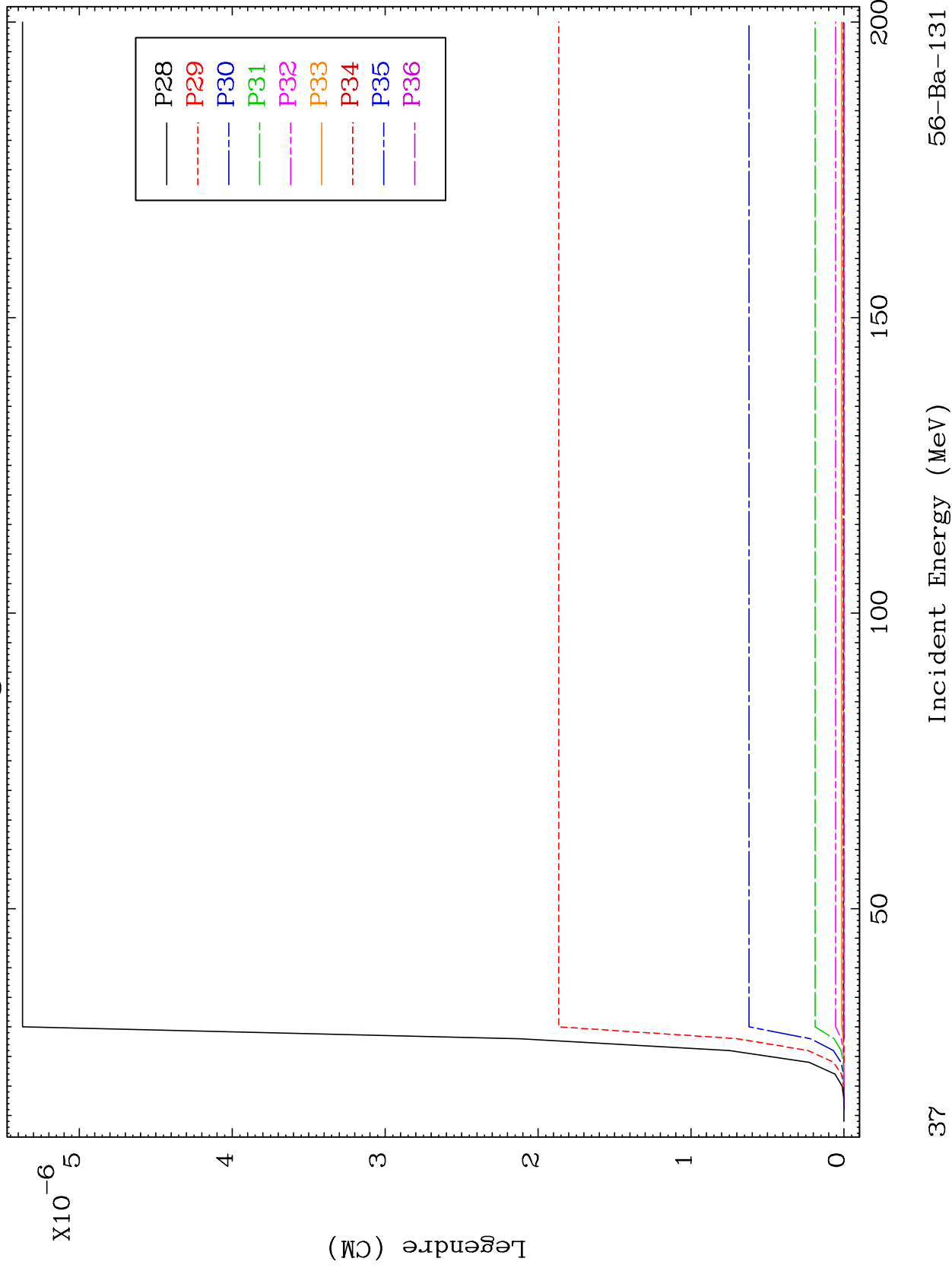
36

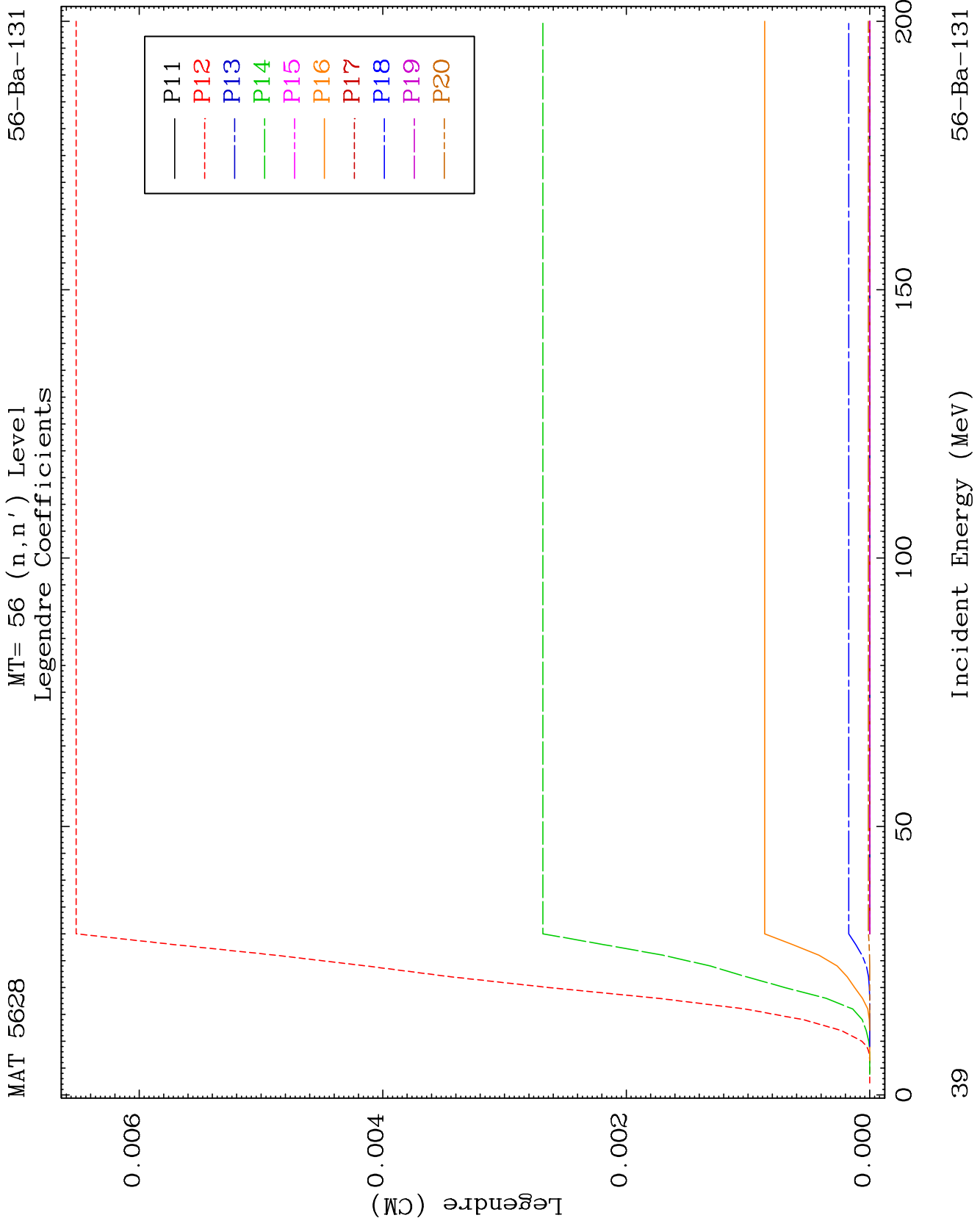
56-Ba-131

MAT 5628

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

56-Ba-131

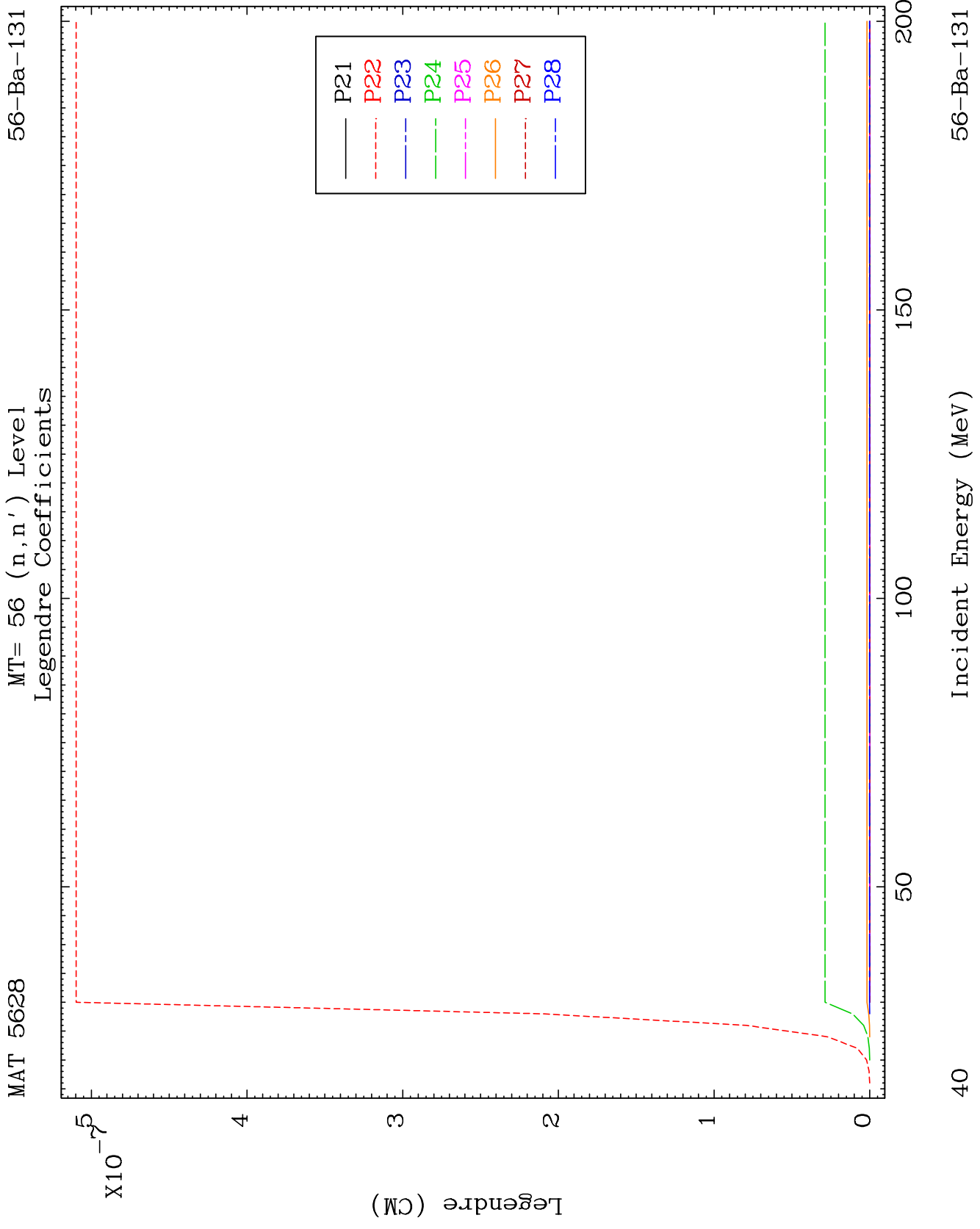




56-Ba-131

Incident Energy (MeV)

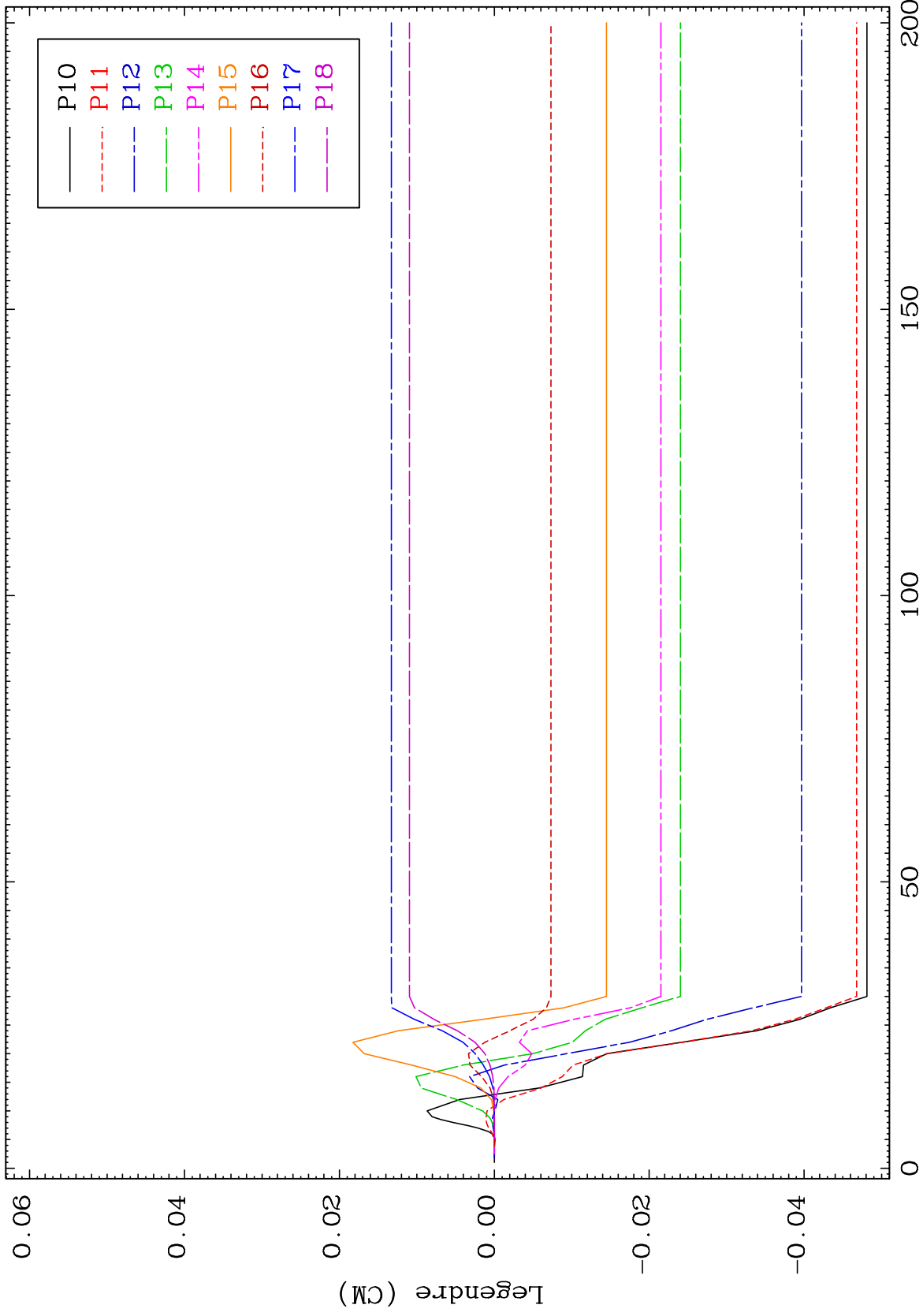
39



MAT 5628

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

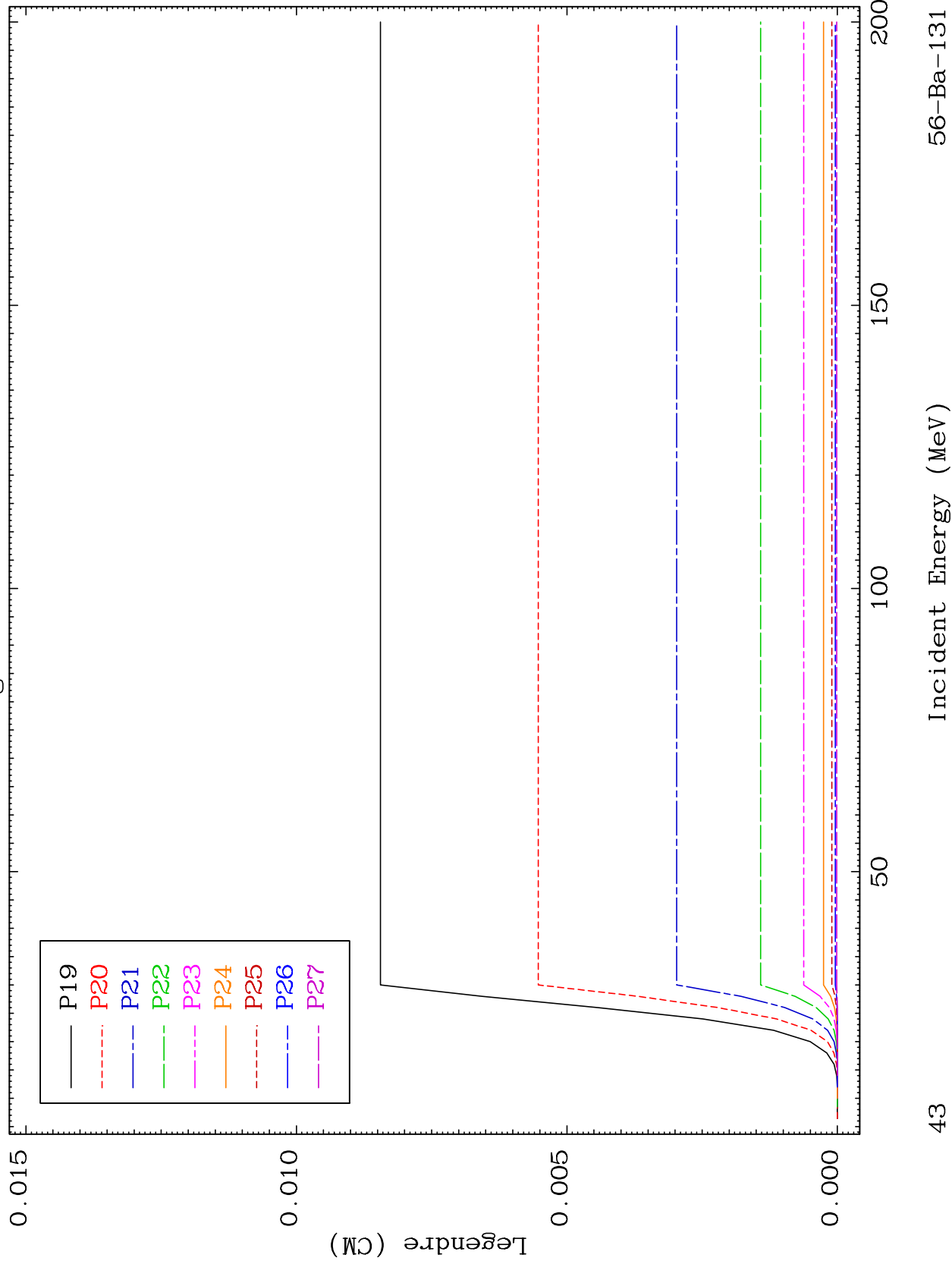
56-Ba-131



42

Incident Energy (MeV)

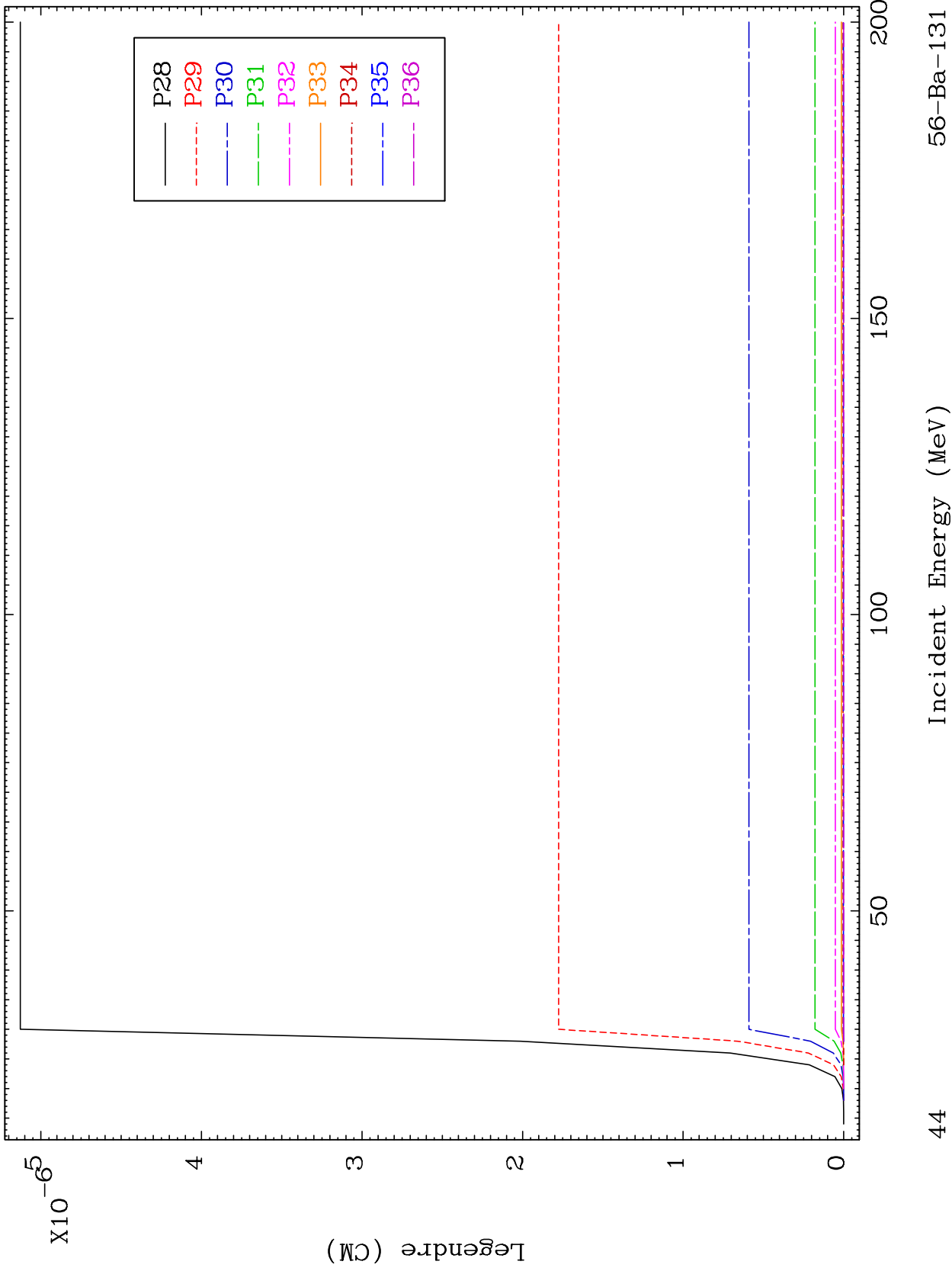
56-Ba-131



MAT 5628

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

56-Ba-131



44

Incident Energy (MeV)

56-Ba-131

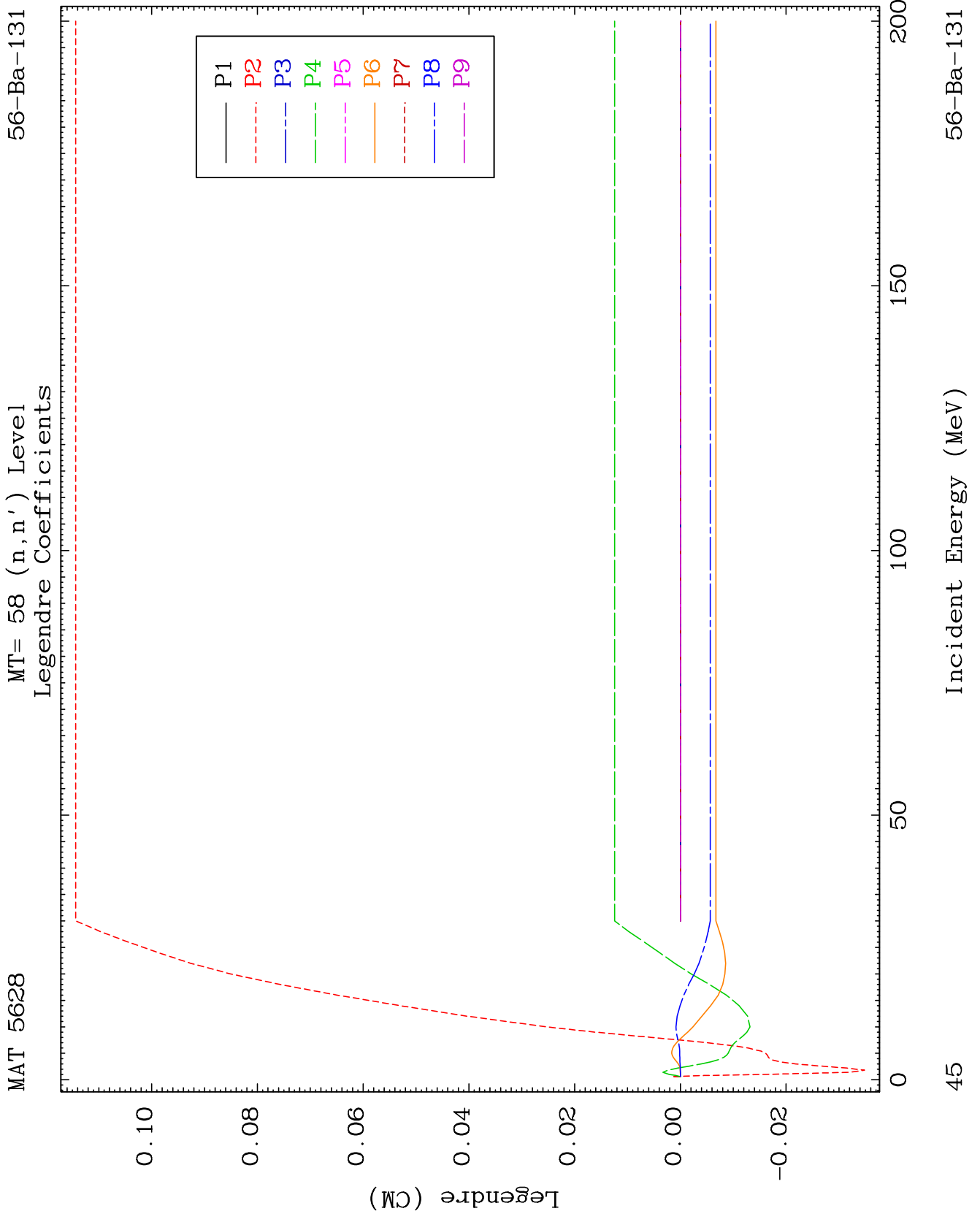
200

150

100

50

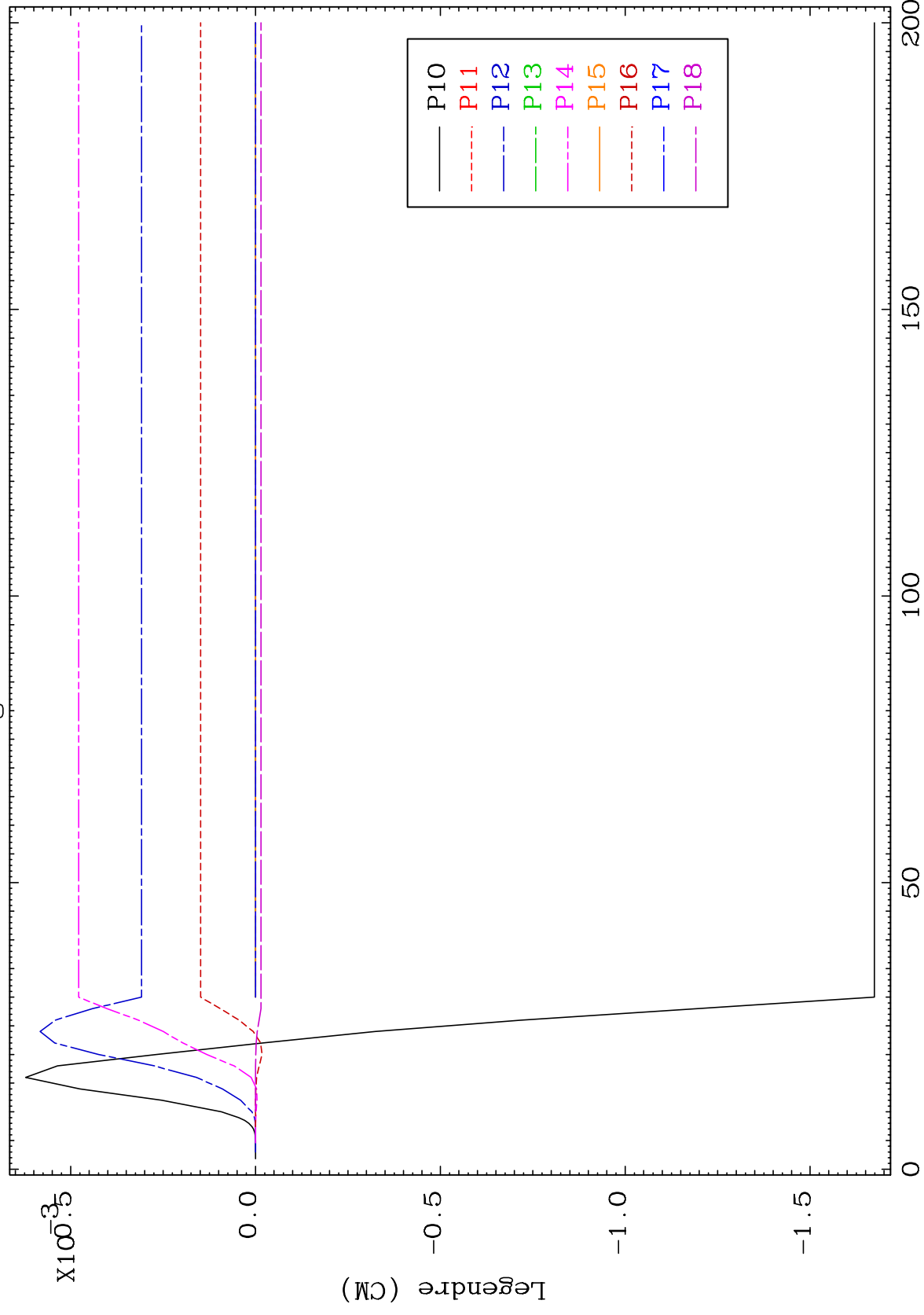
$\times 10^{-6}$



MAT 5628

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

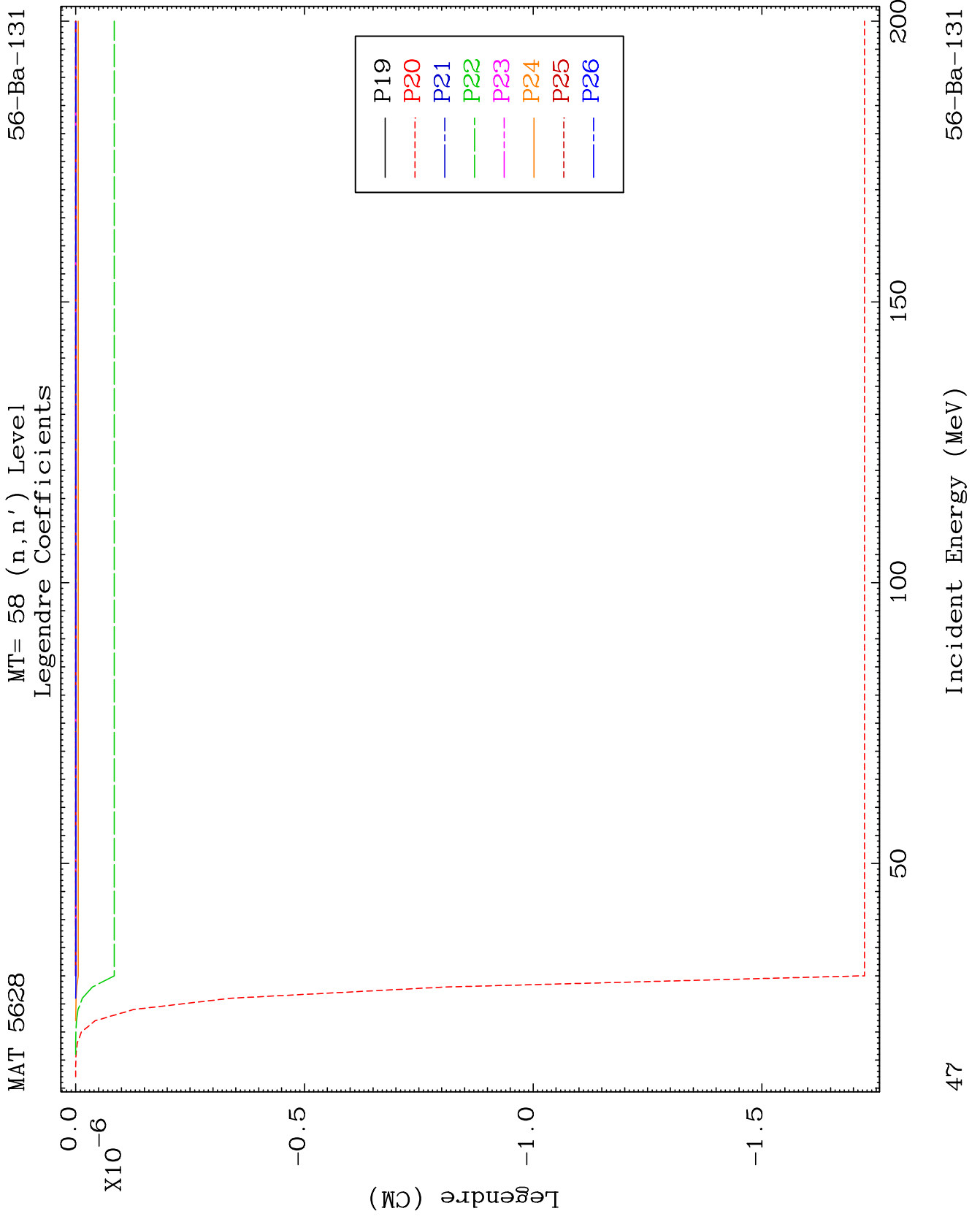
56-Ba-131

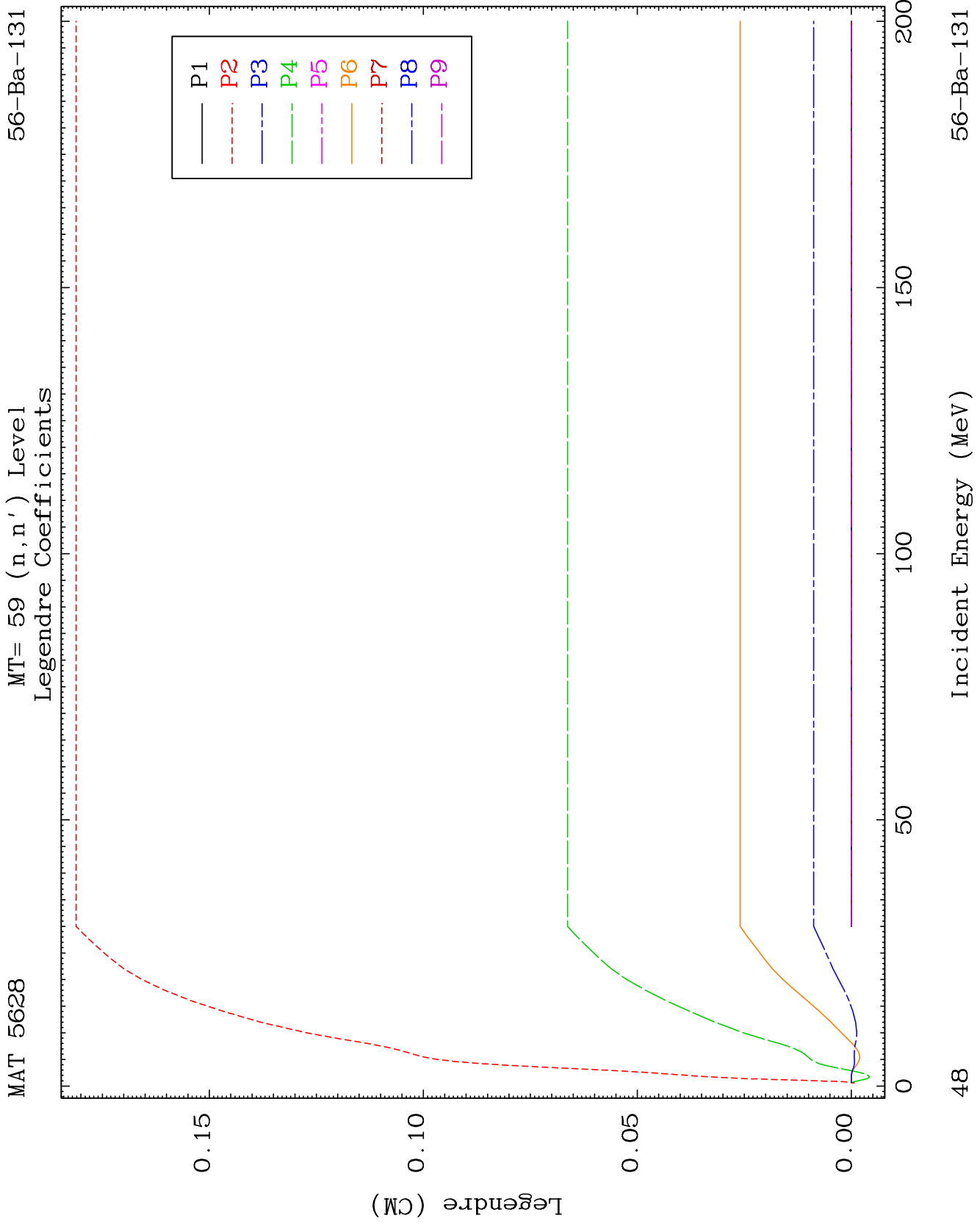


46

56-Ba-131

56-Ba-131

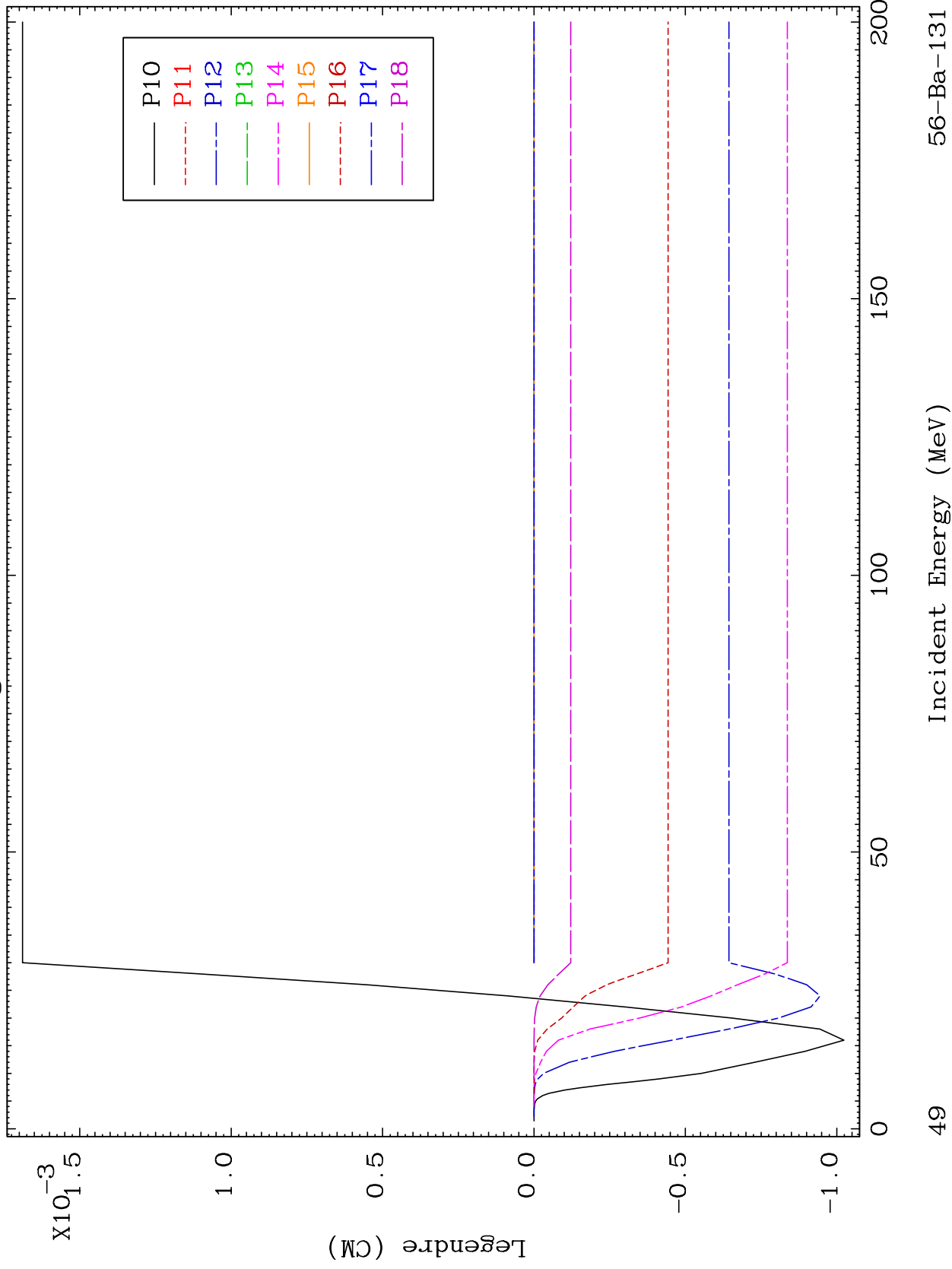




MAT 5628

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

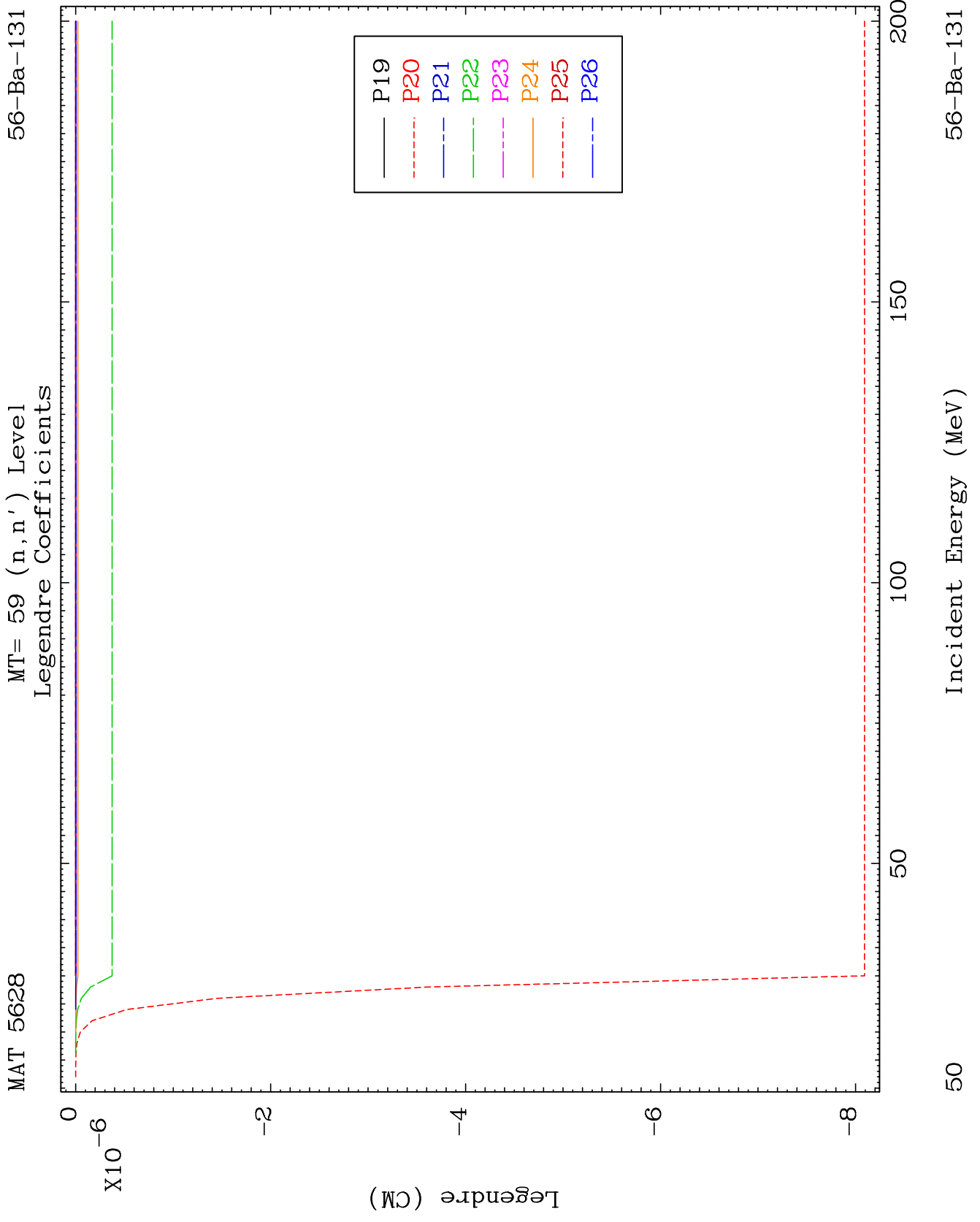
56-Ba-131



56-Ba-131

Incident Energy (MeV)

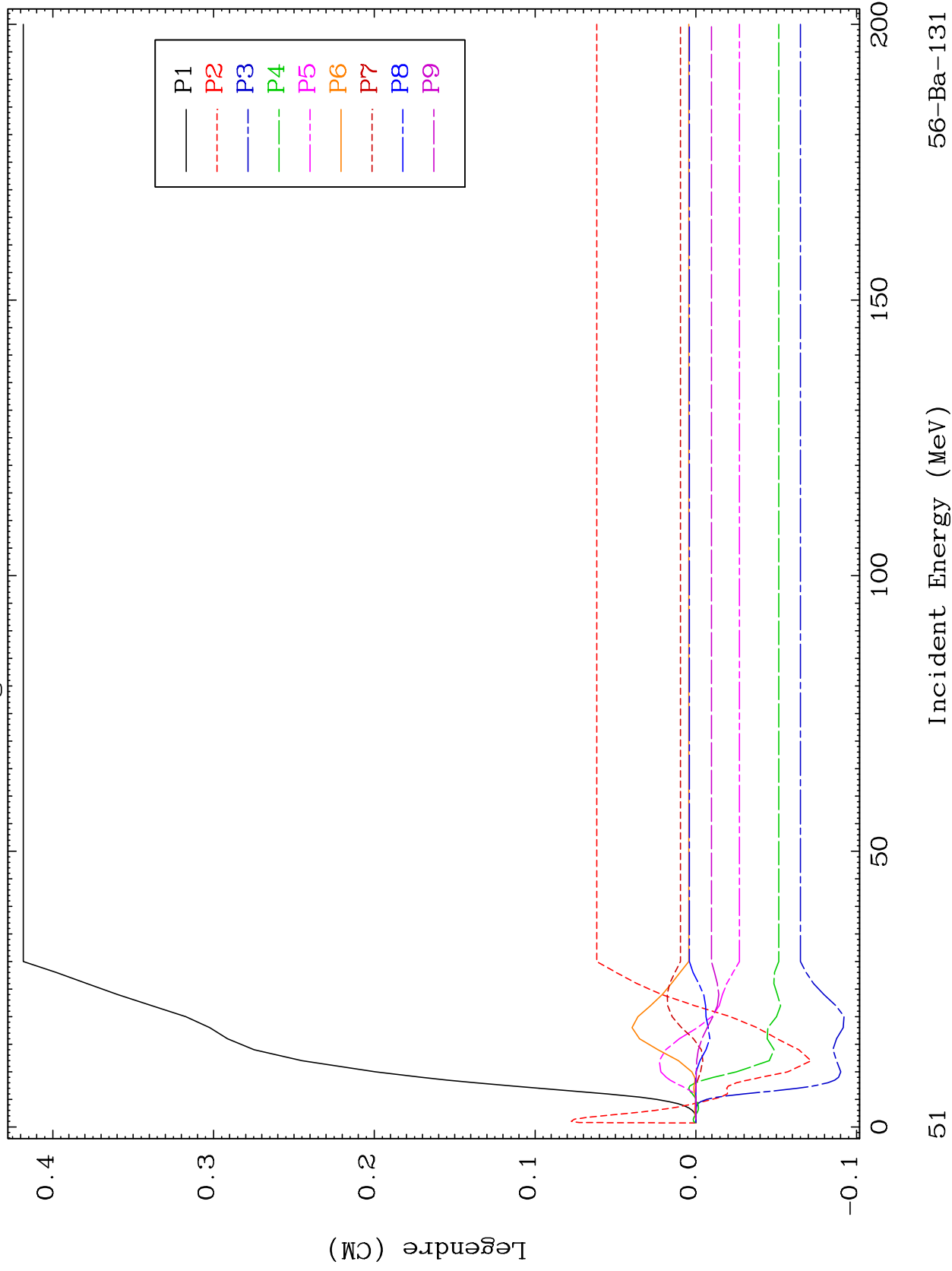
49



MAT 5628

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

56-Ba-131



56-Ba-131

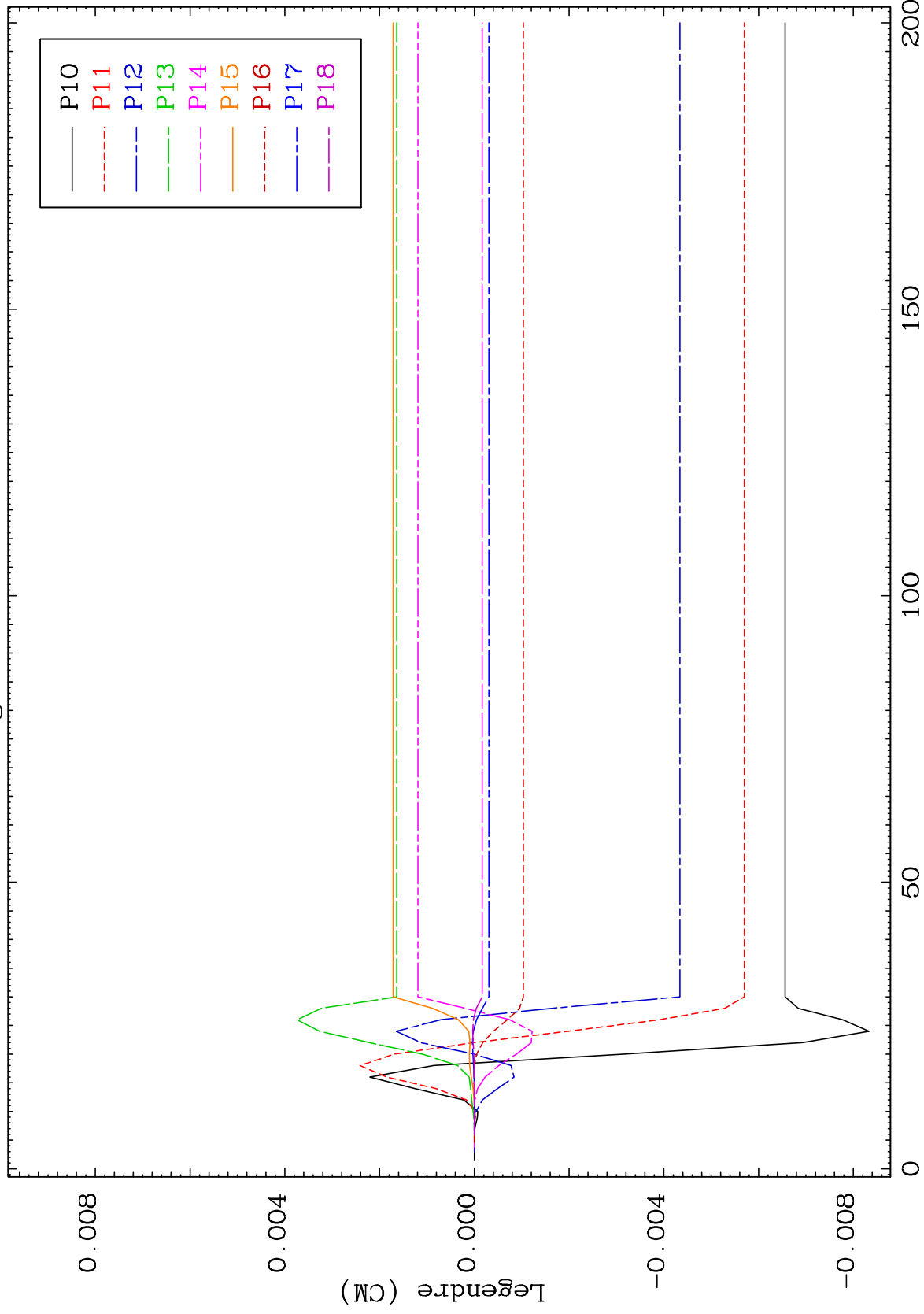
Incident Energy (MeV)

51

MAT 5628

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

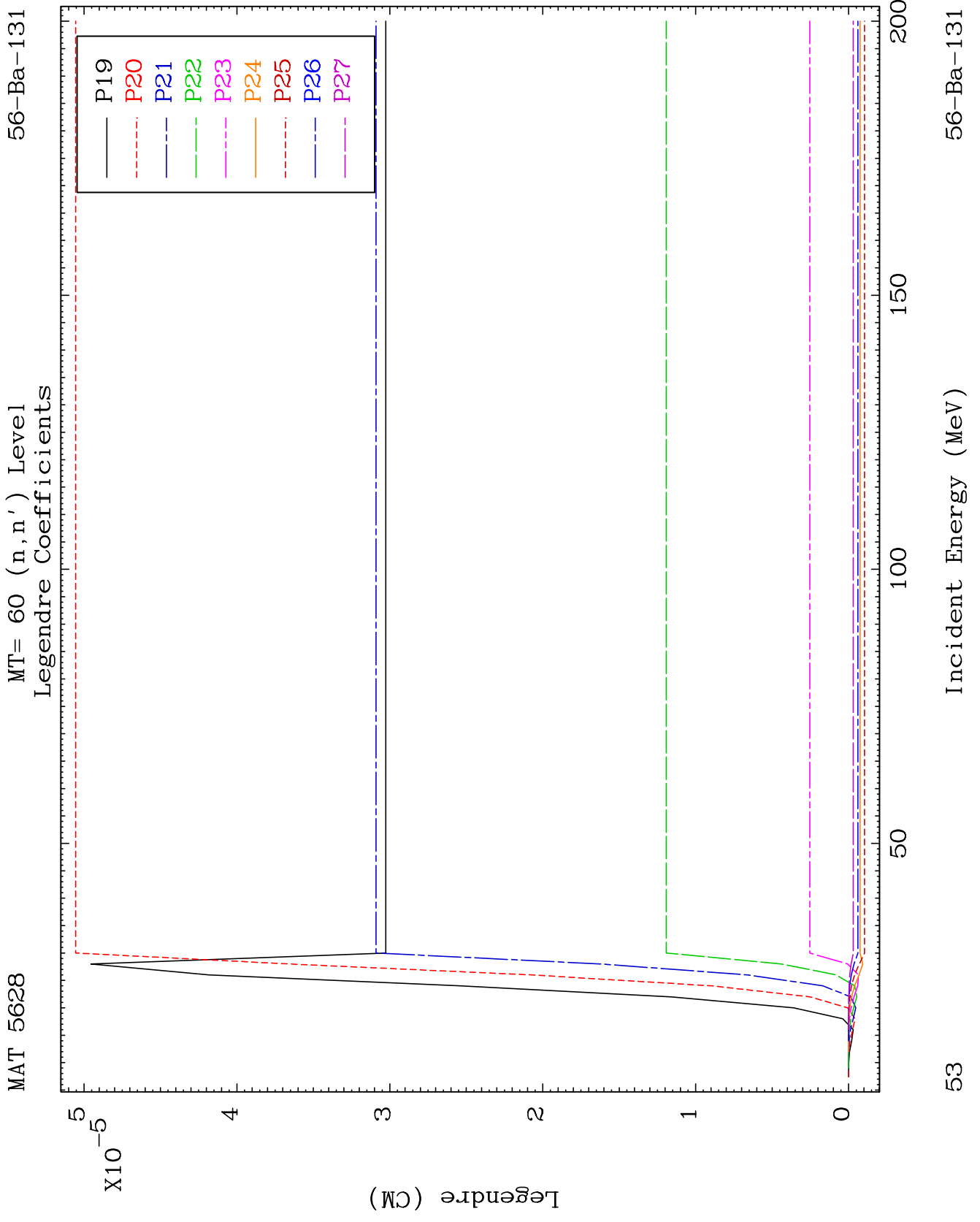
56-Ba-131

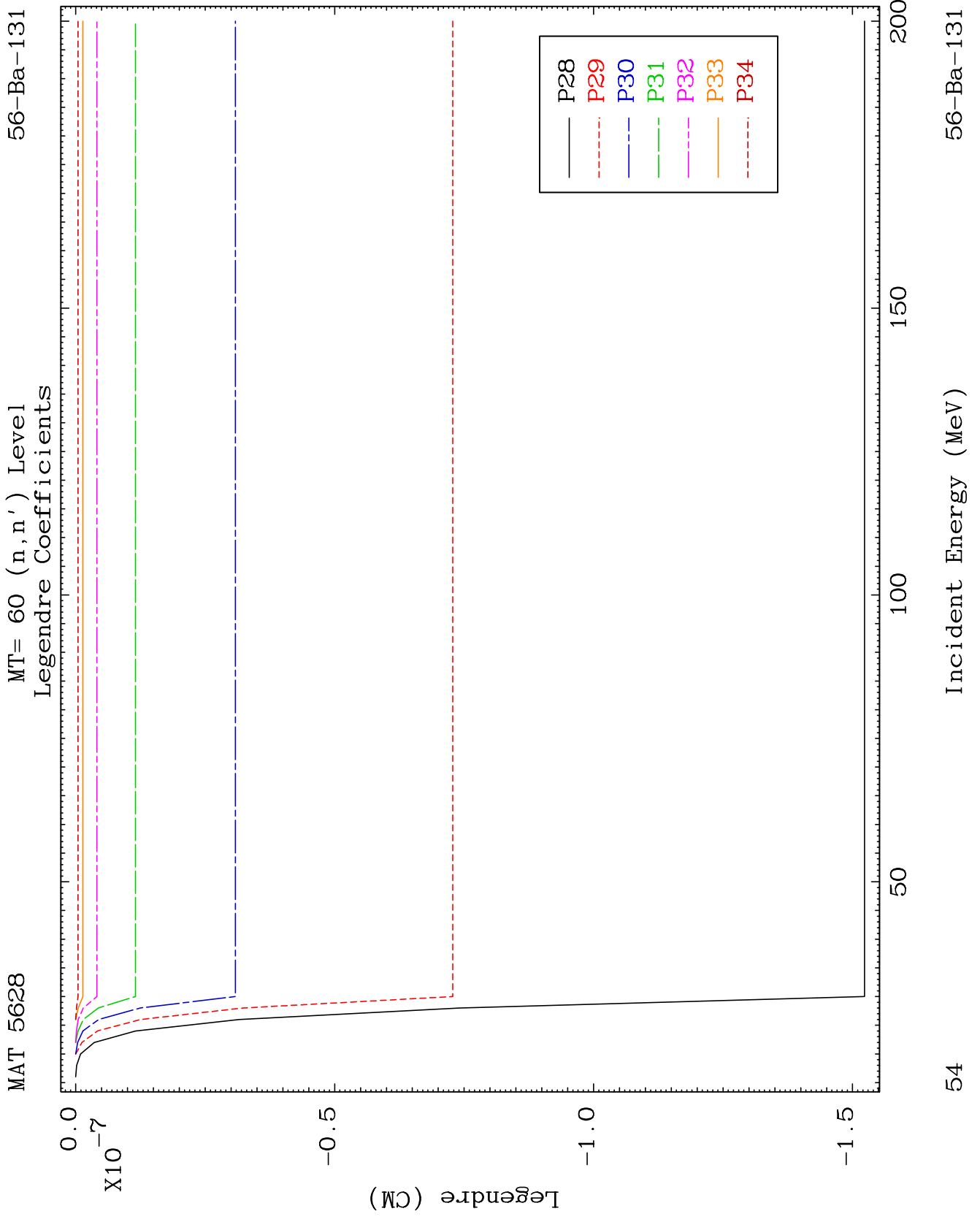


52

Incident Energy (MeV)

56-Ba-131



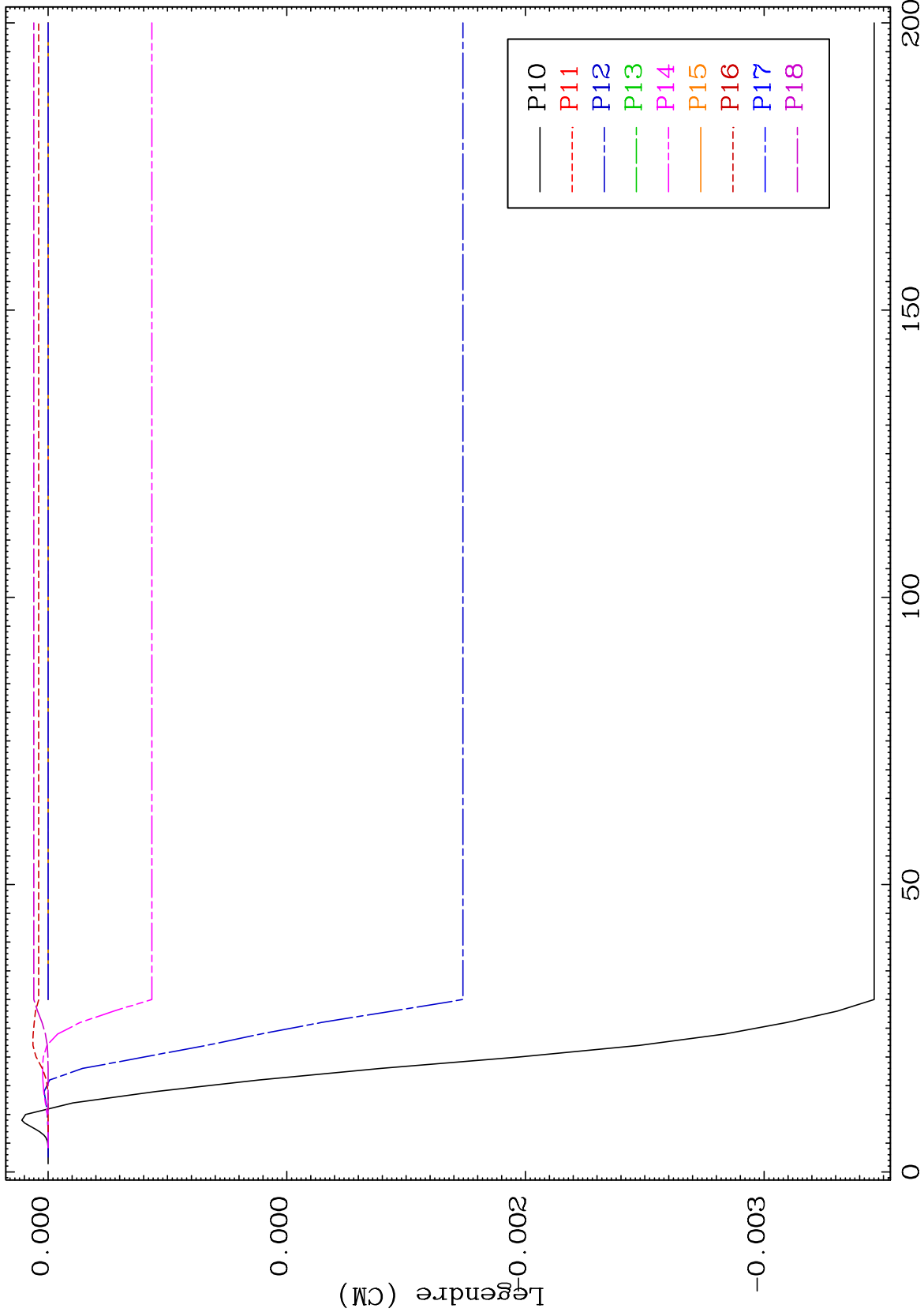


MAT 5628

MT= 61 (n,n') Level

56-Ba-131

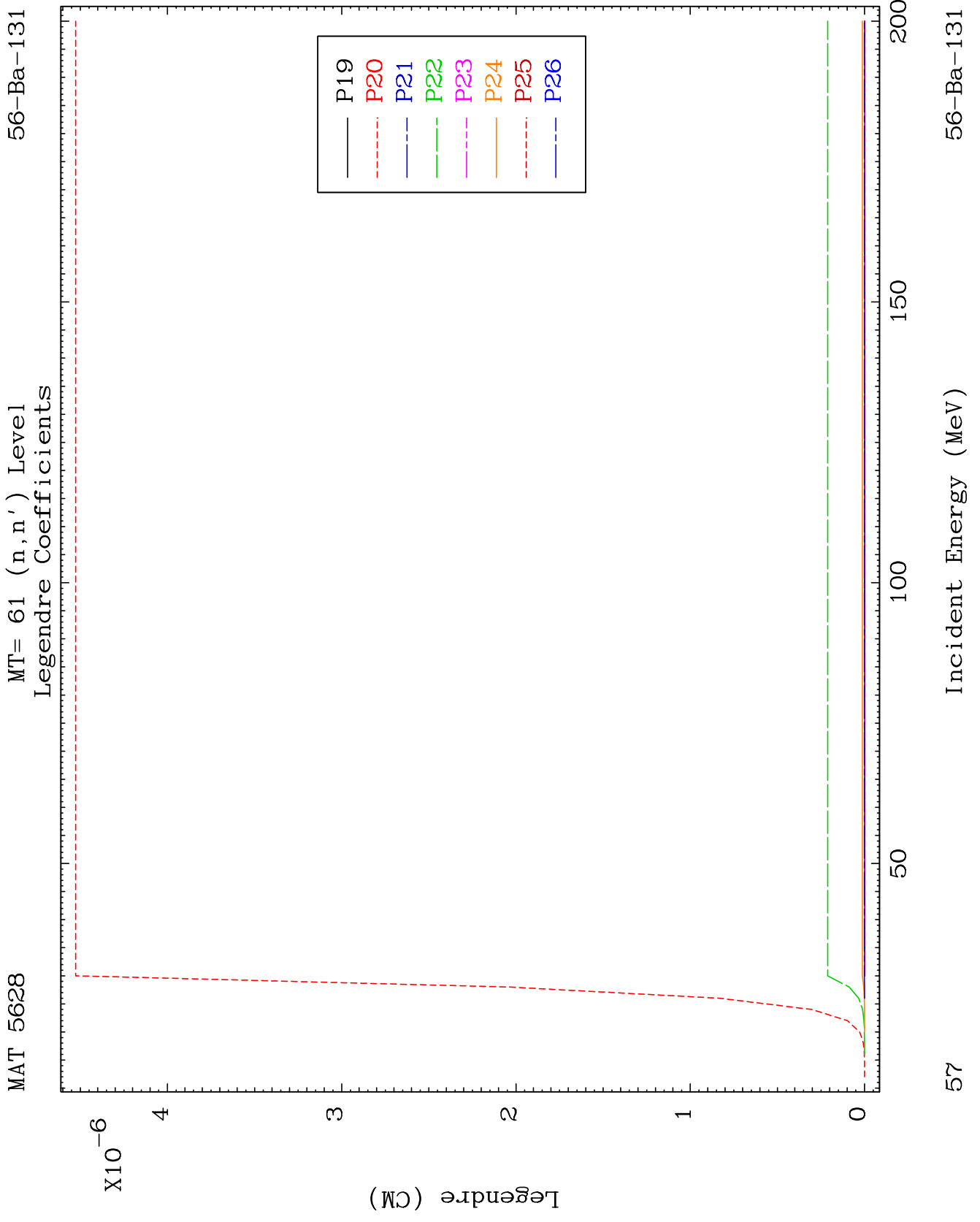
Legendre Coefficients

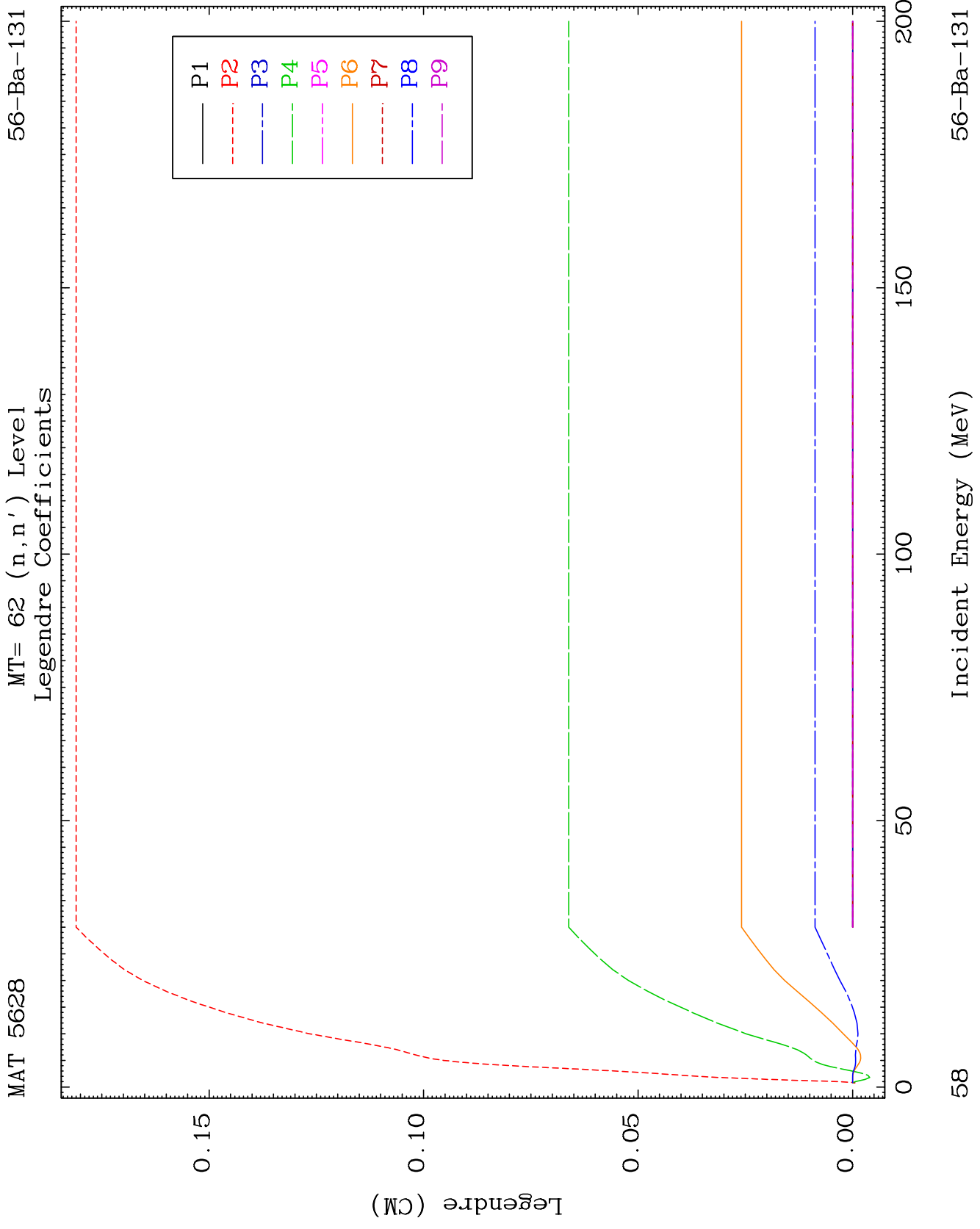


56

Incident Energy (MeV)

56-Ba-131





56-Ba-131

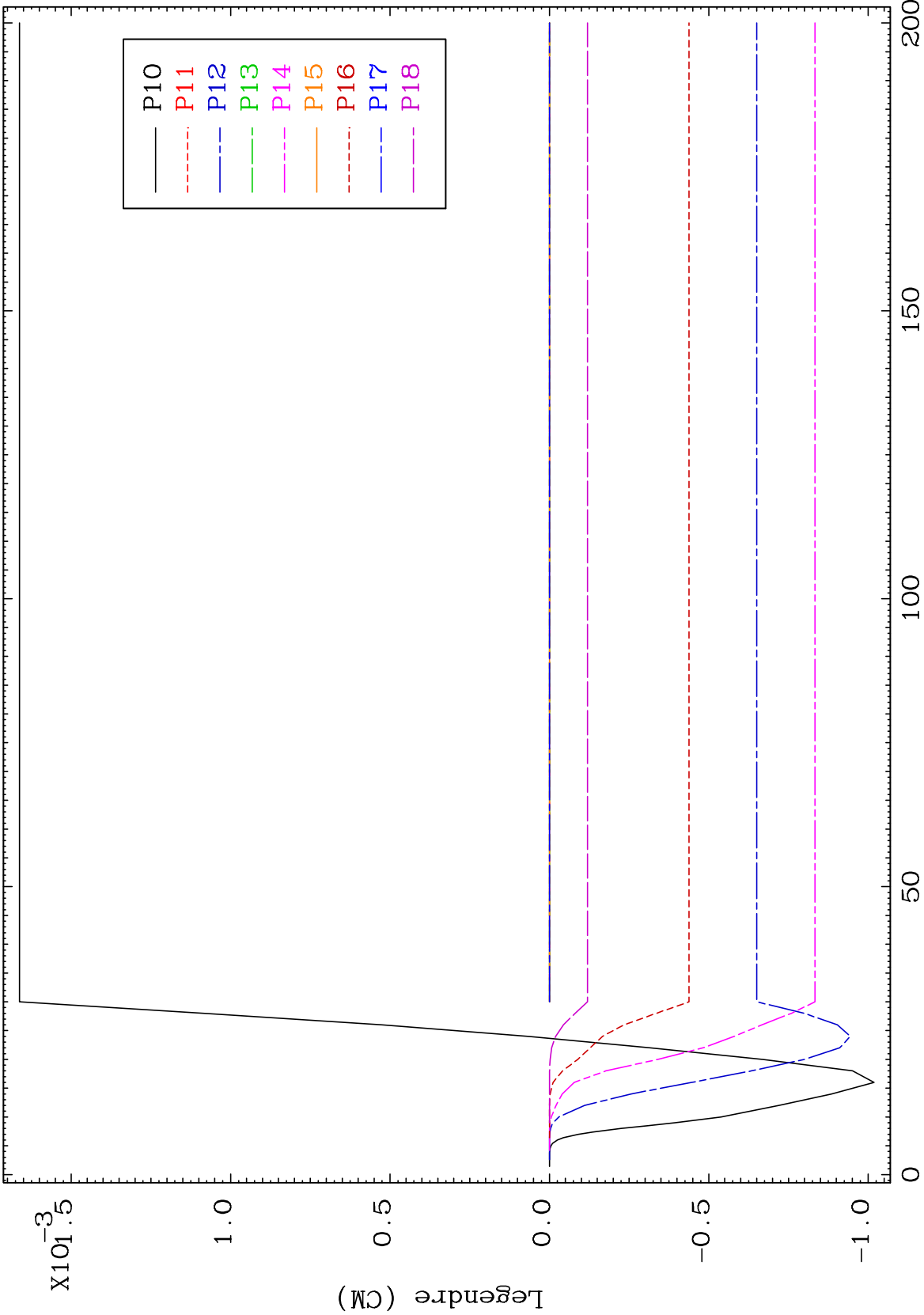
Incident Energy (MeV)

58

MAT 5628

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

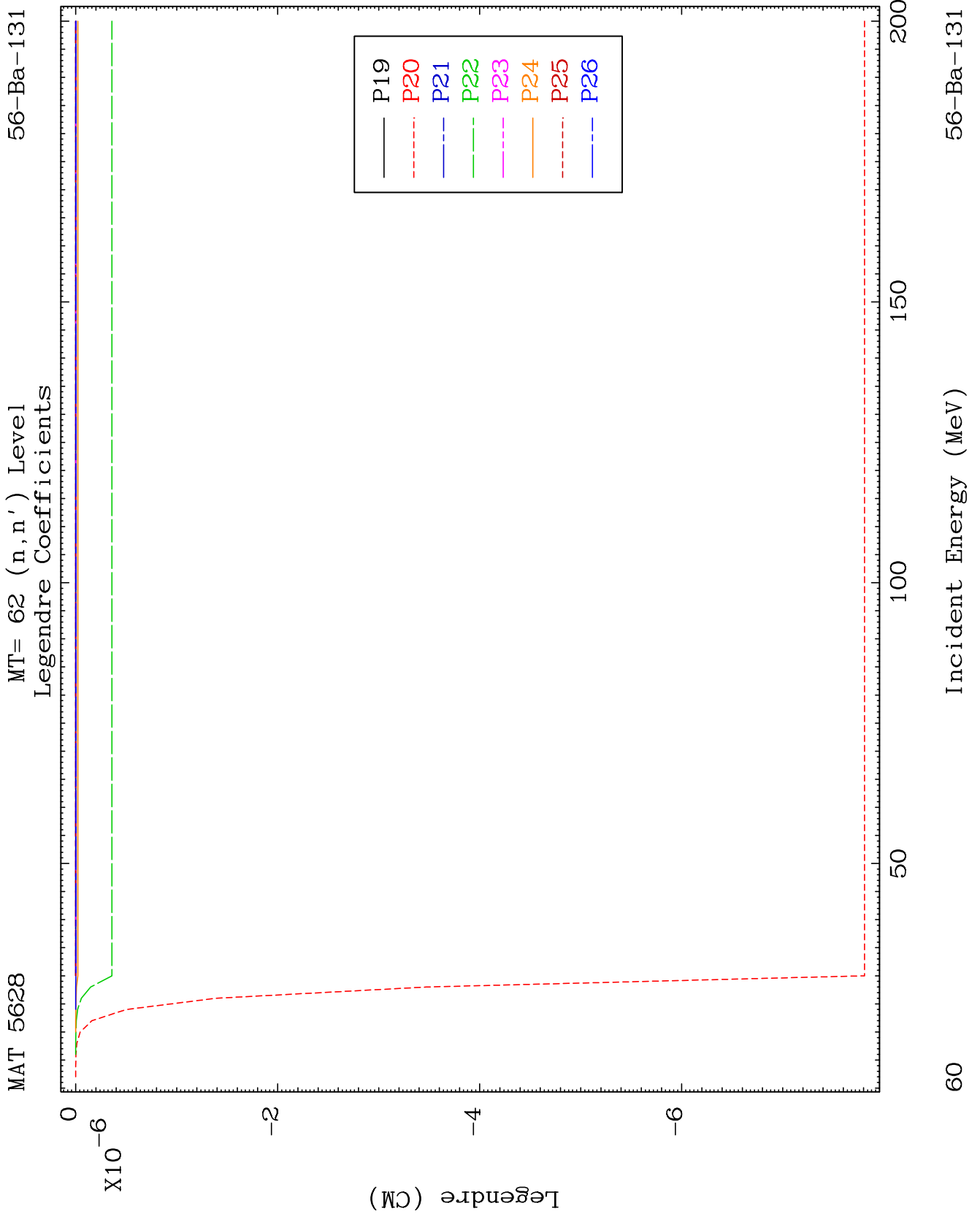
56-Ba-131

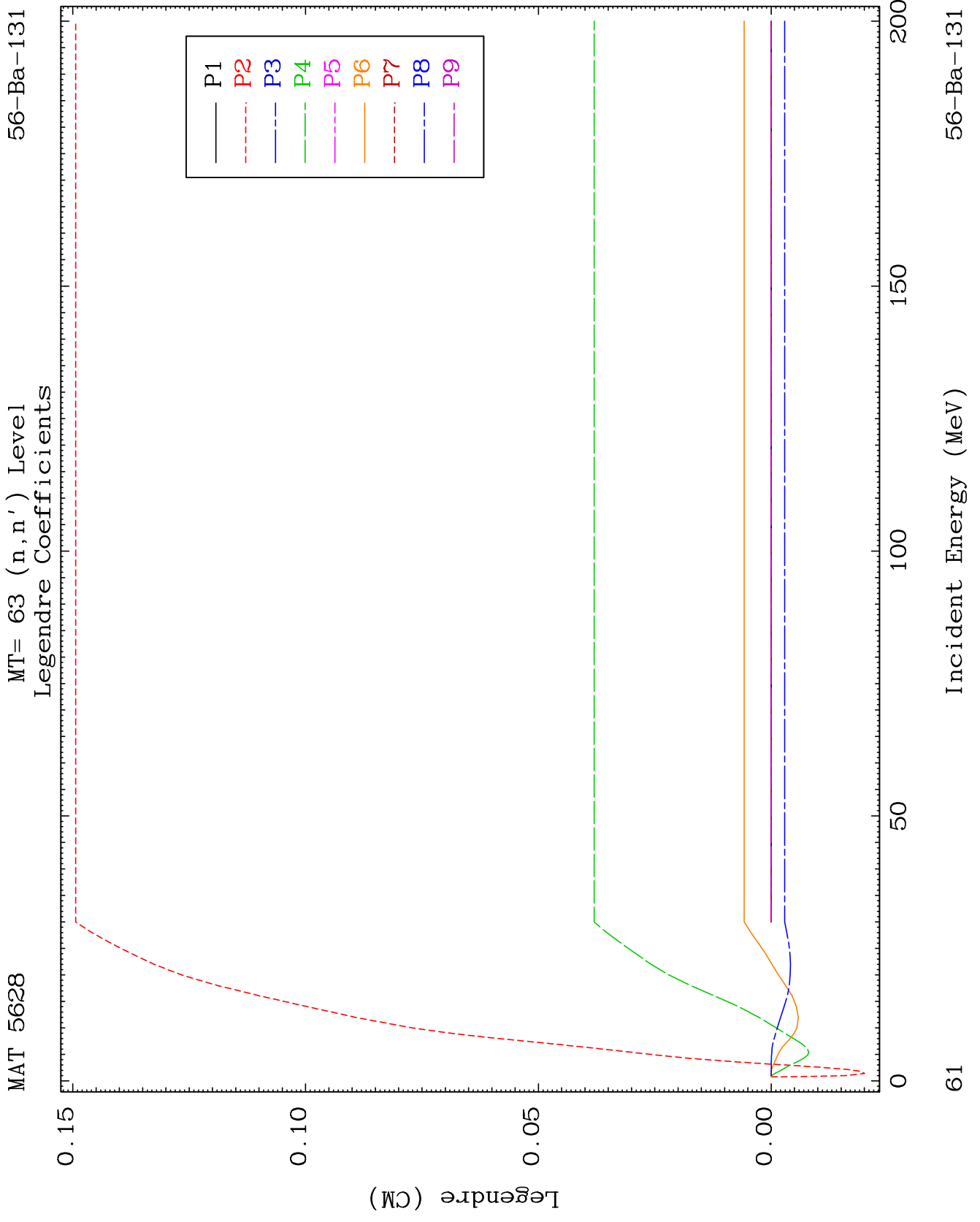


59

Incident Energy (MeV)

56-Ba-131

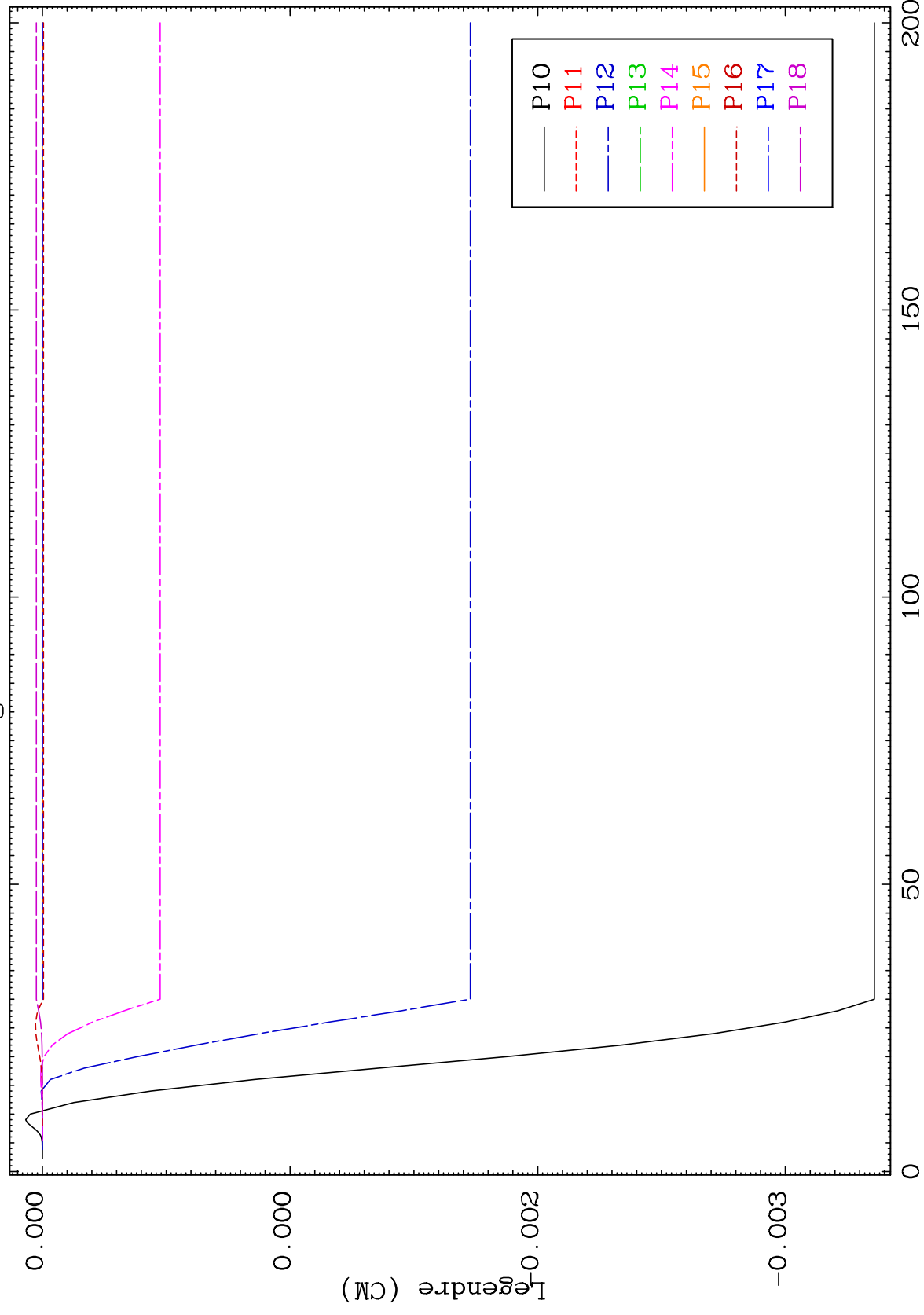




MAT 5628

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

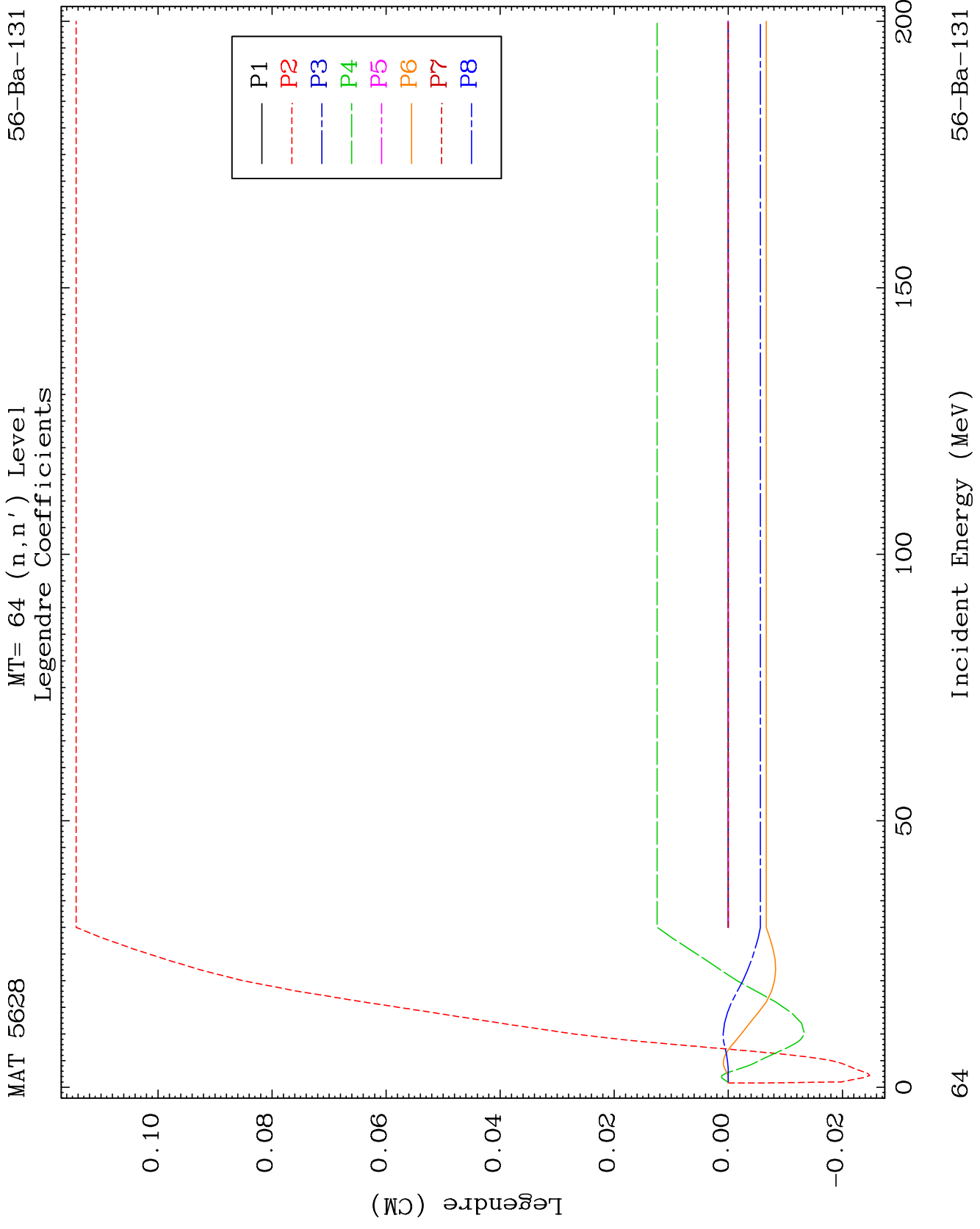
56-Ba-131



62

Incident Energy (MeV)

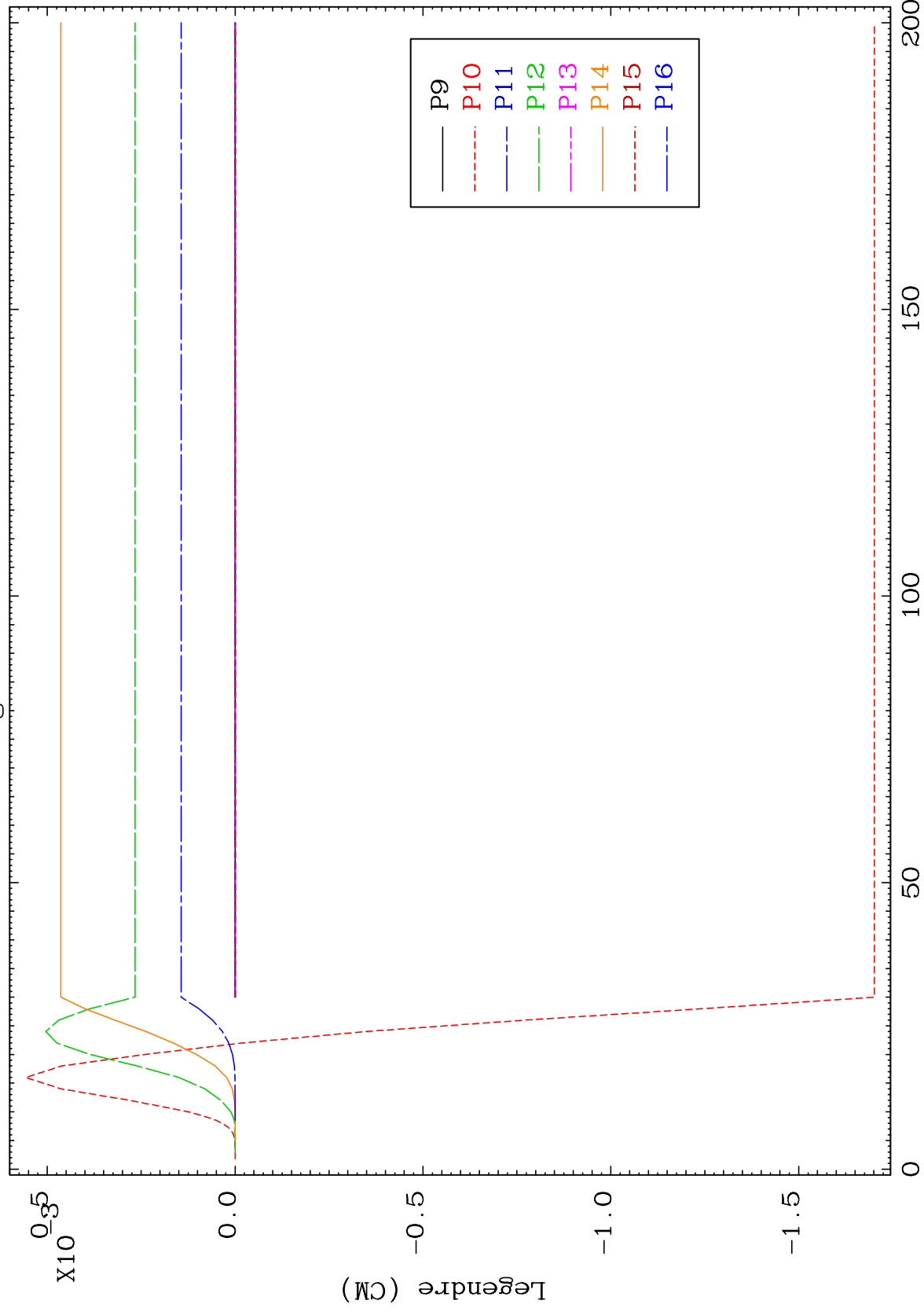
56-Ba-131



MAT 5628

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

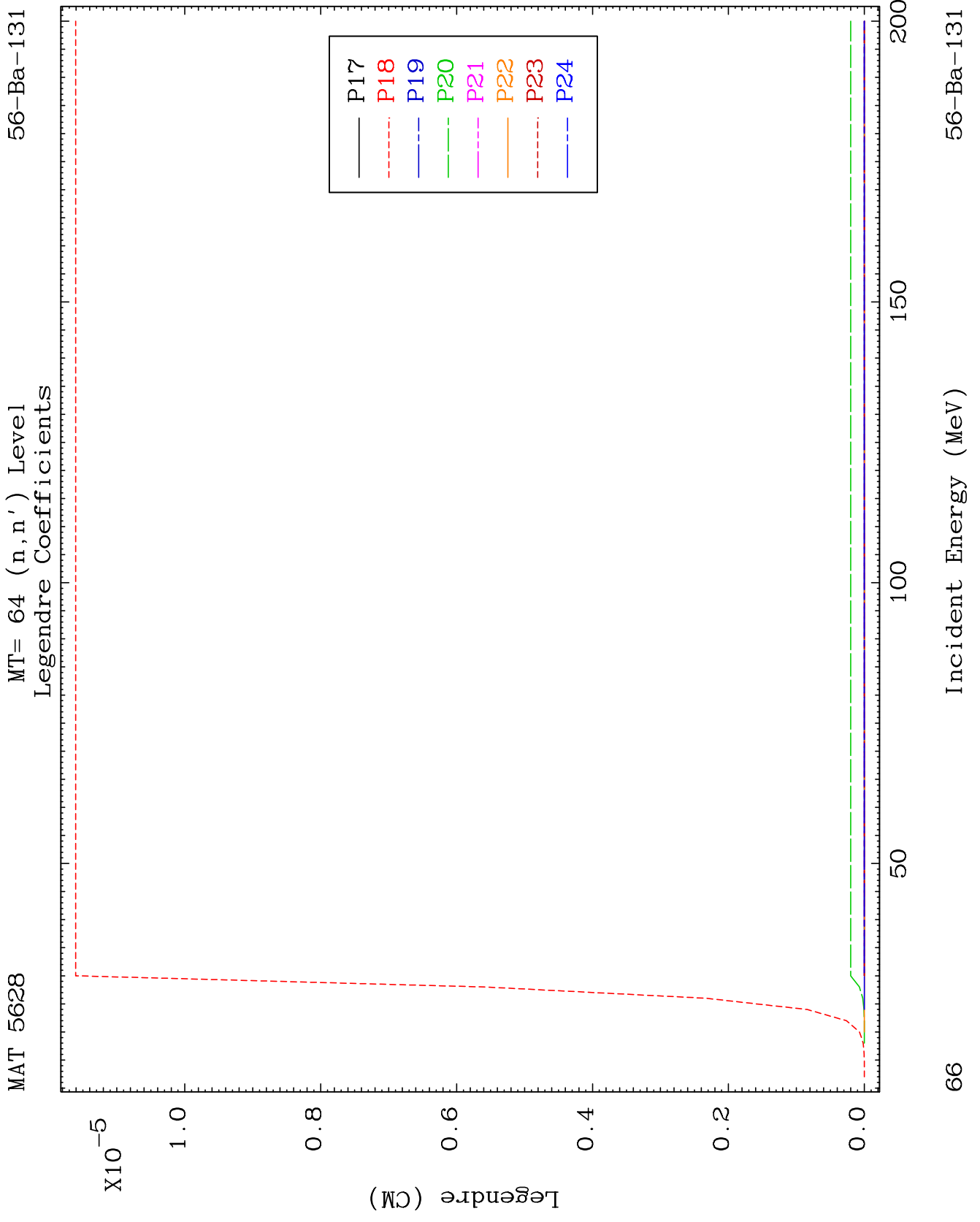
56-Ba-131

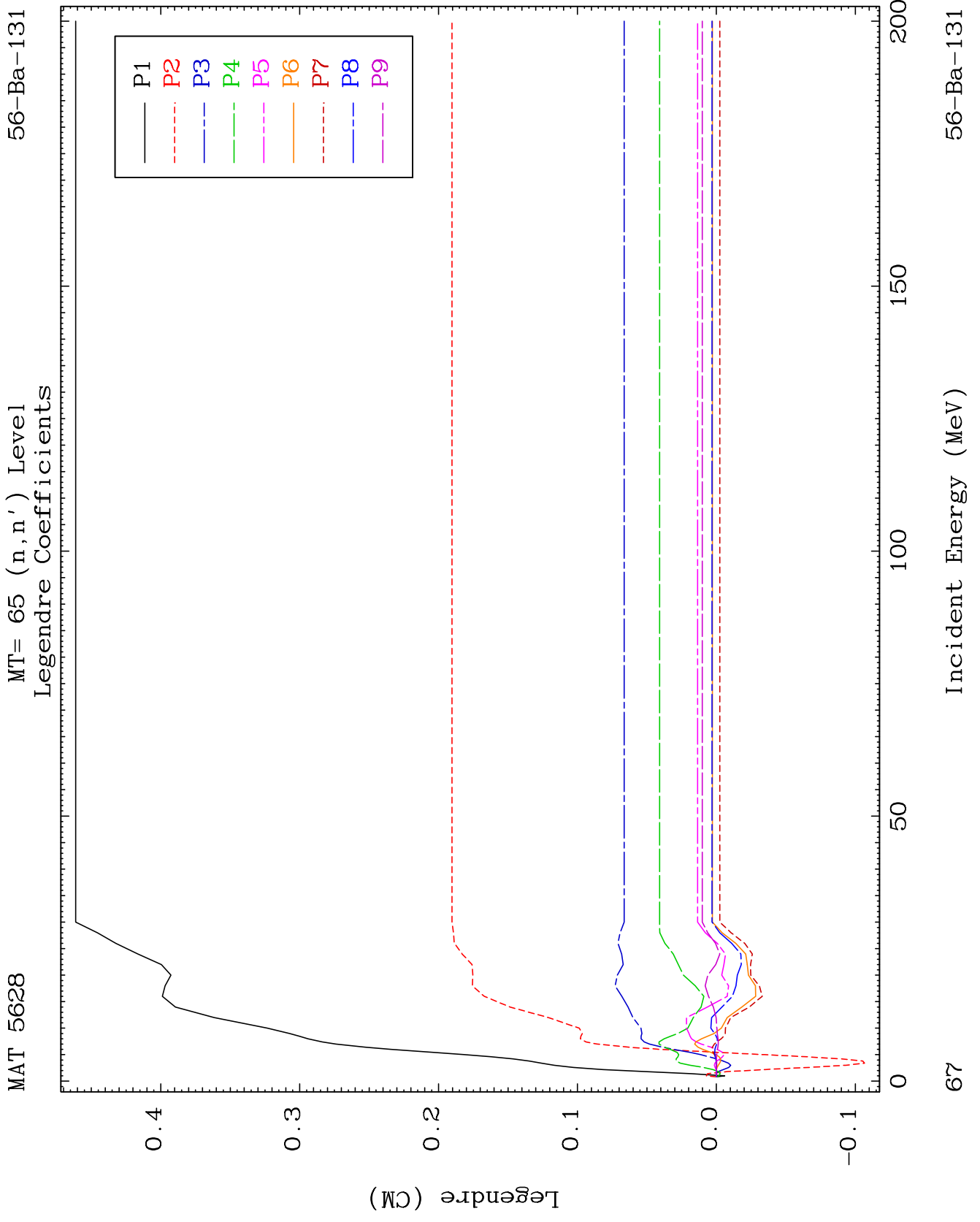


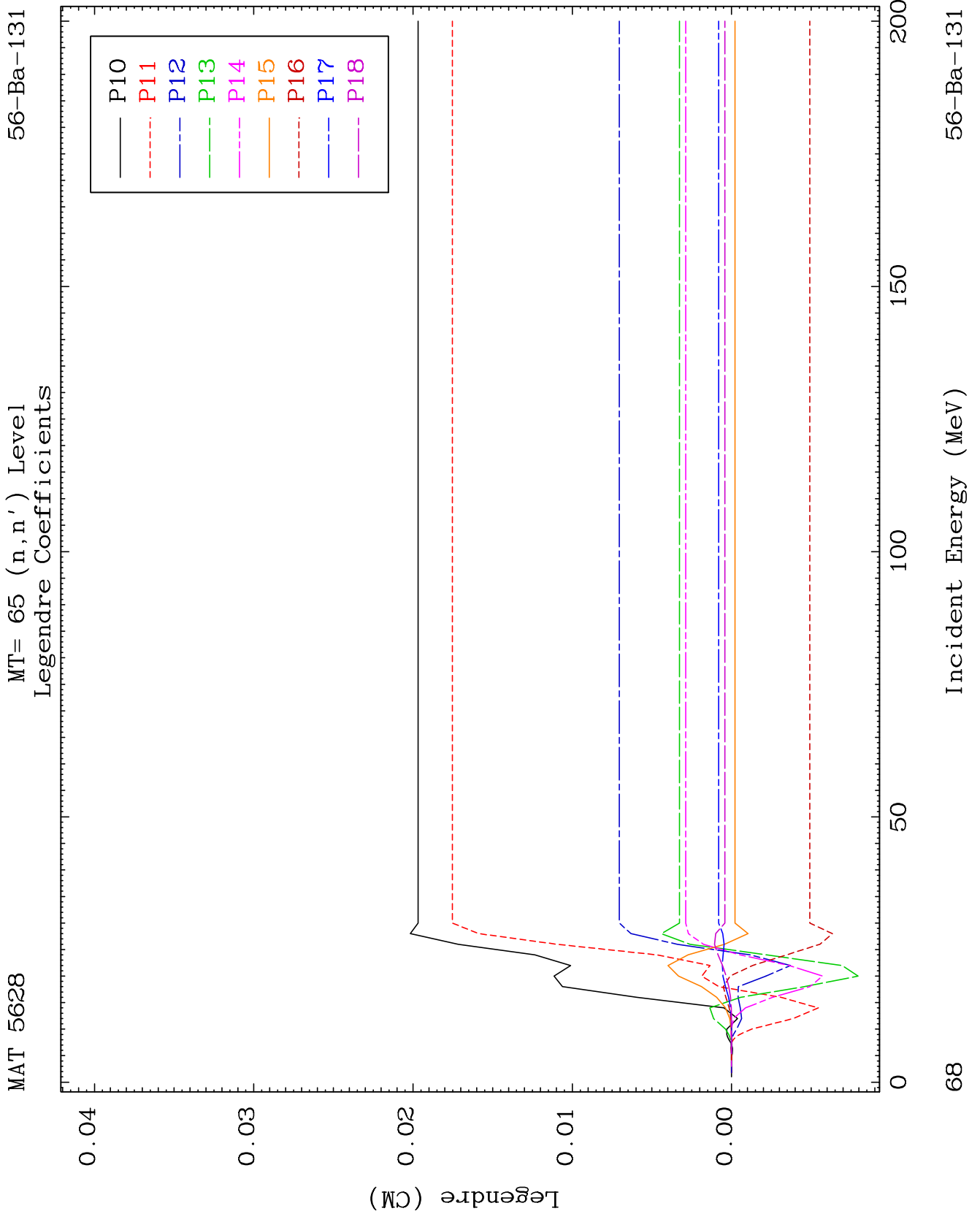
56-Ba-131

Incident Energy (MeV)

65



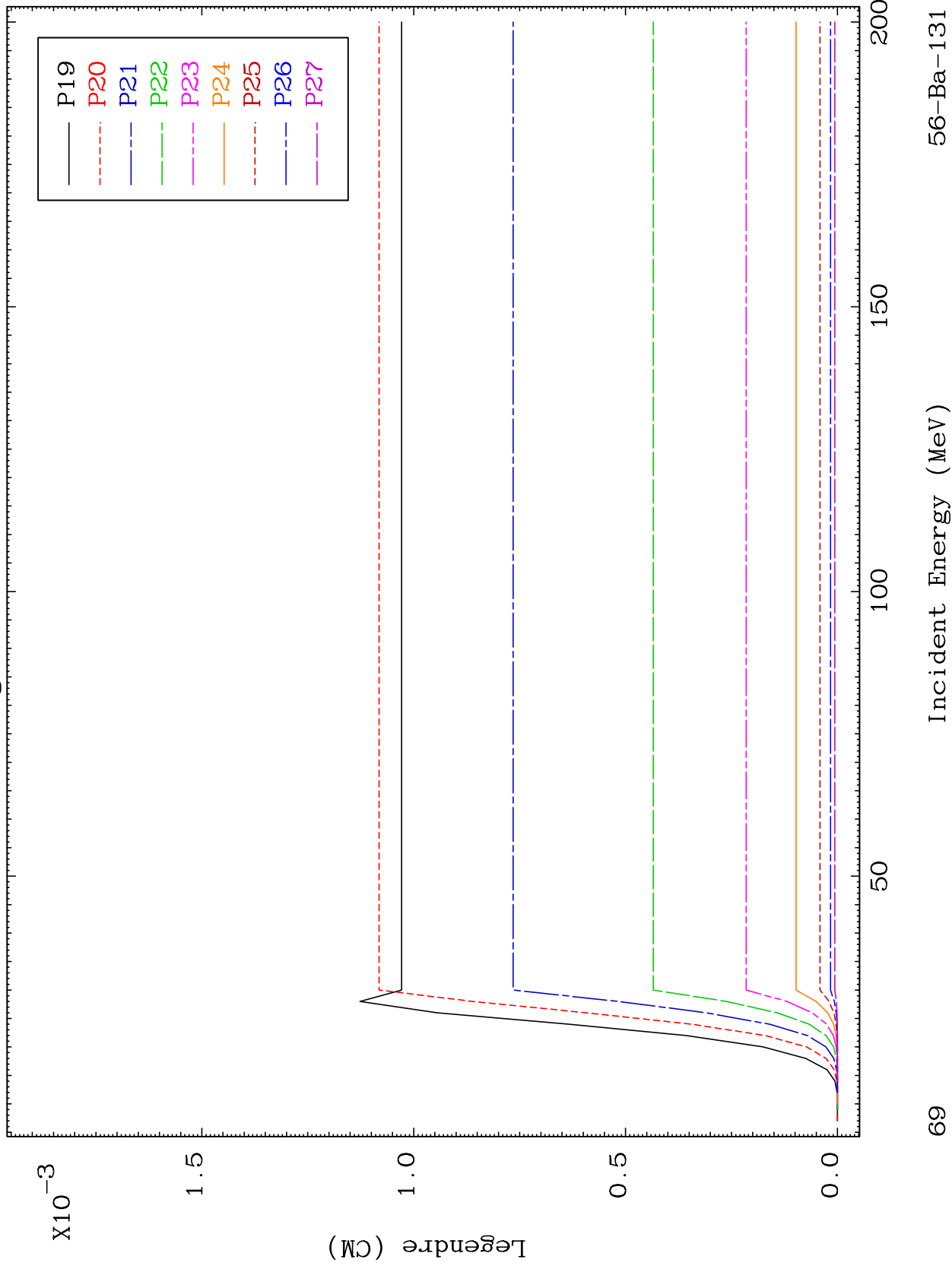




MAT 5628

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

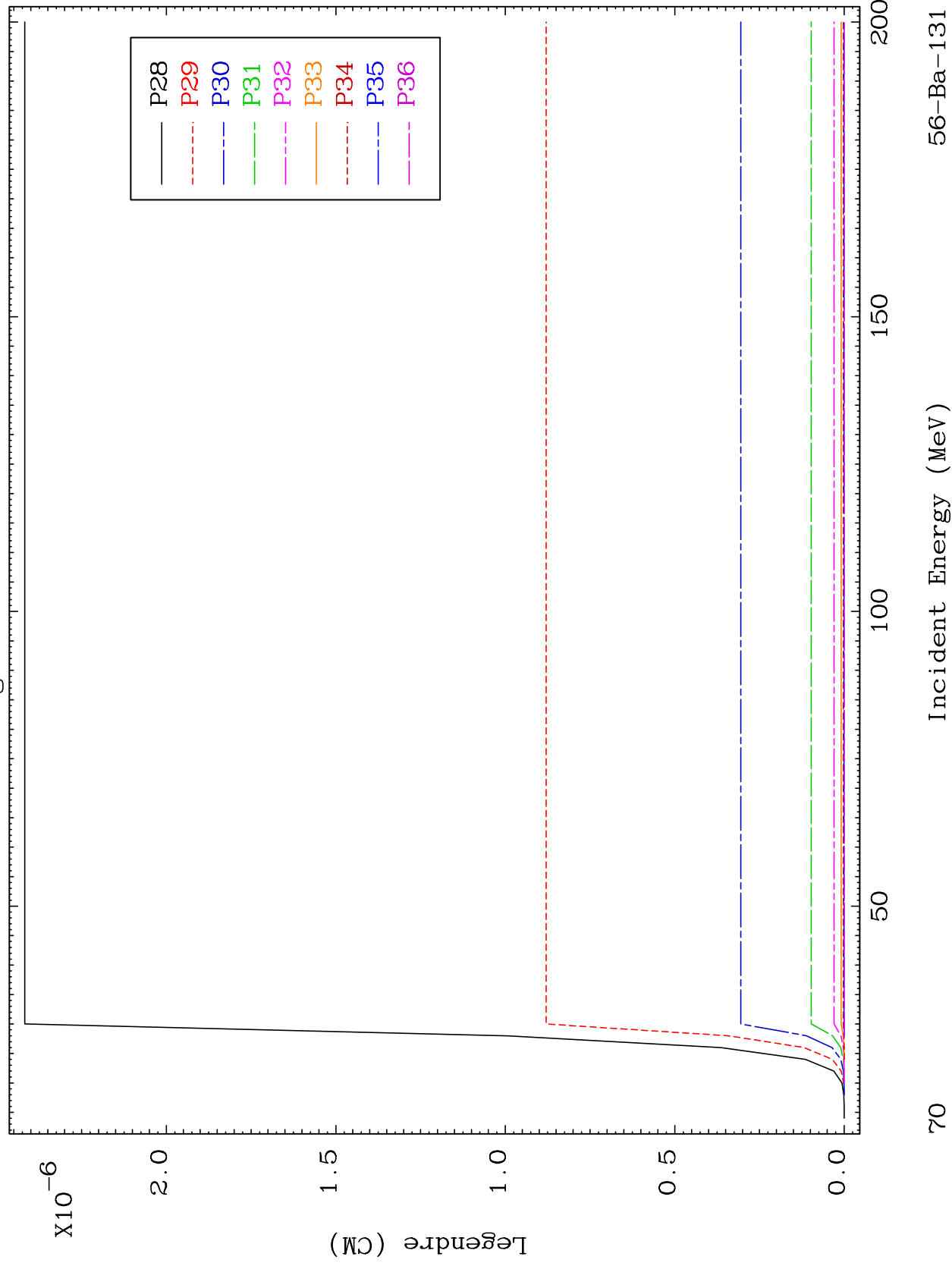
56-Ba-131



MAT 5628

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

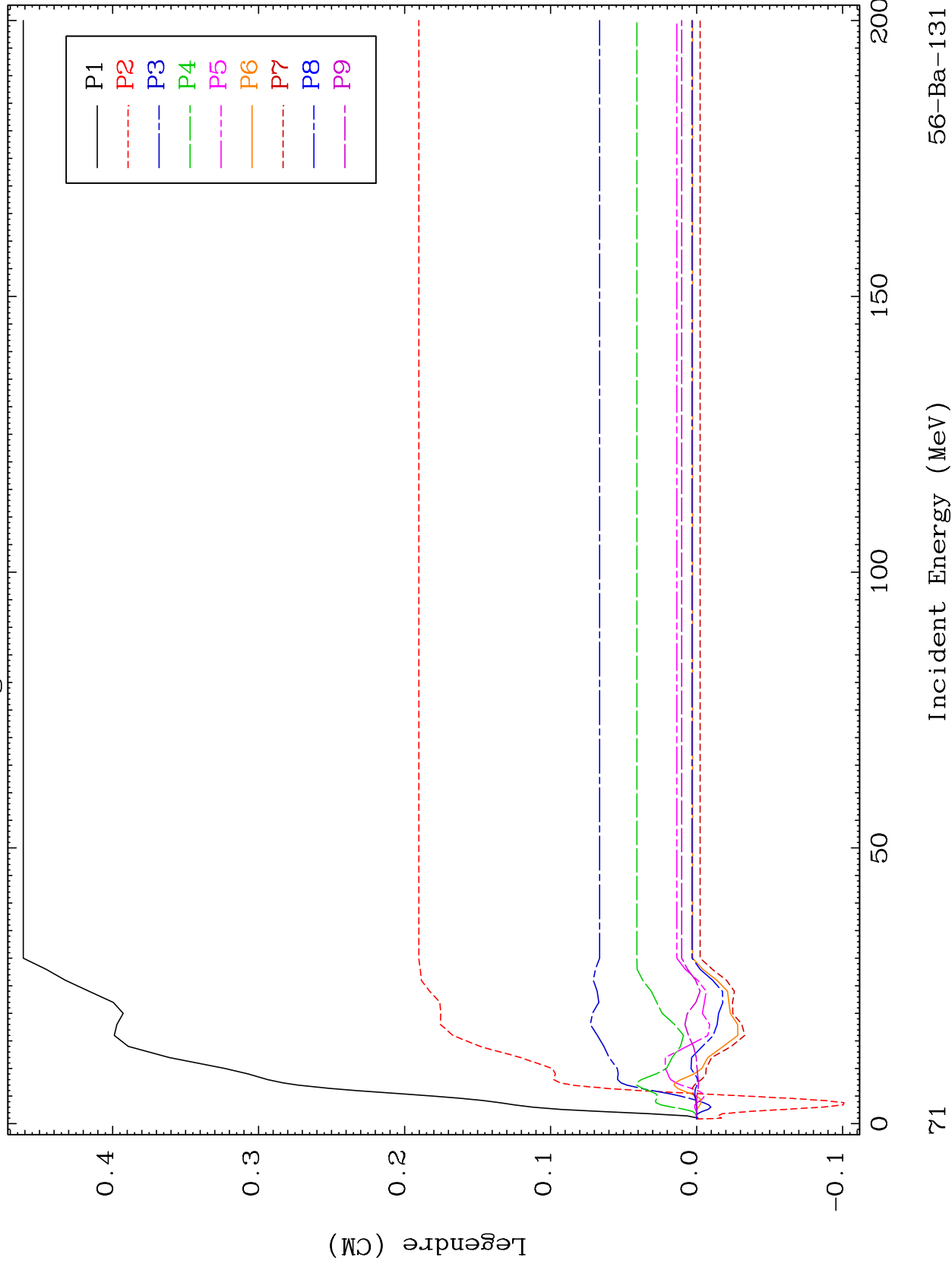
56-Ba-131



MAT 5628

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

56-Ba-131

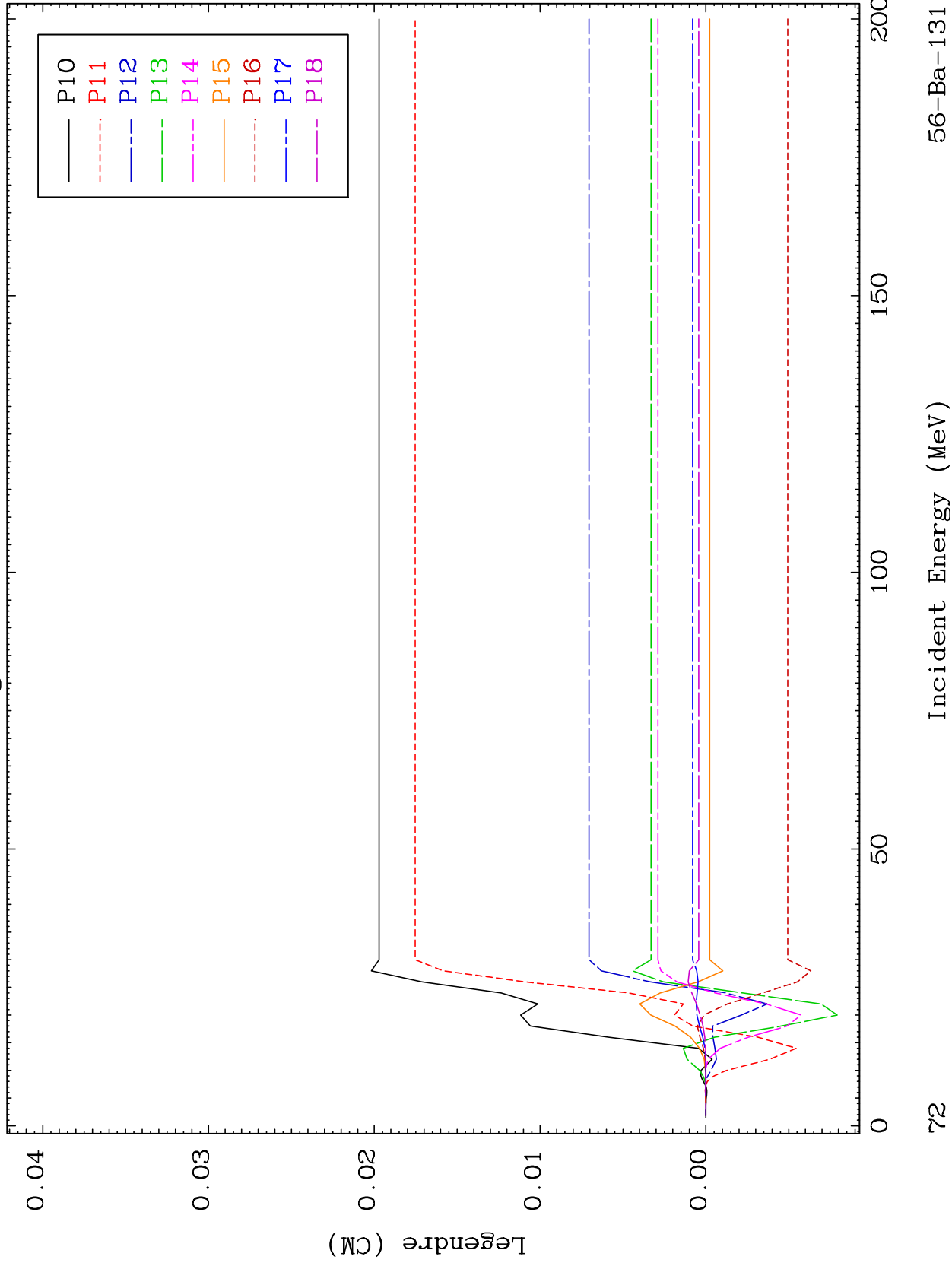


71

MAT 5628

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

56-Ba-131



72

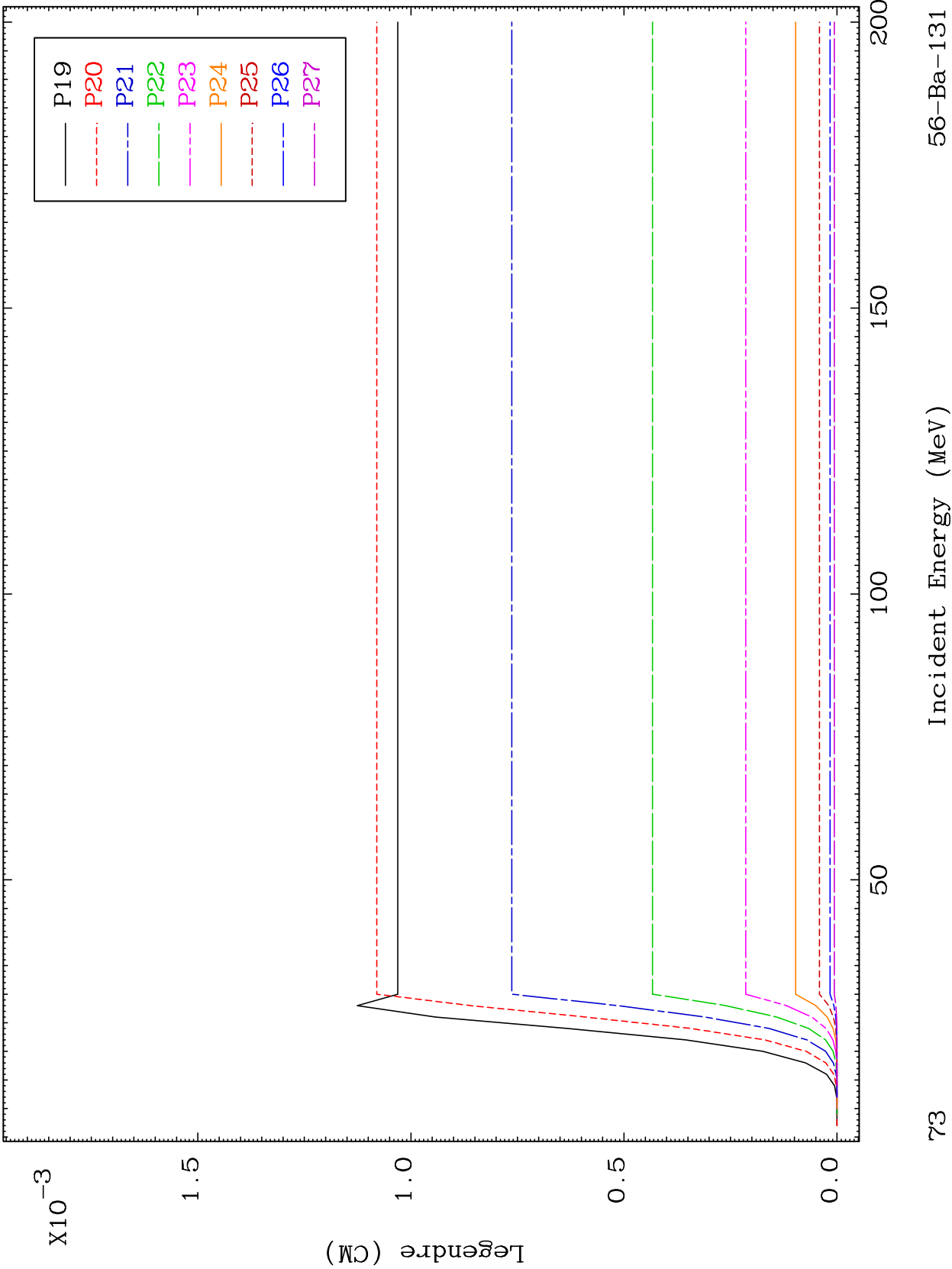
Incident Energy (MeV)

56-Ba-131

MAT 5628

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

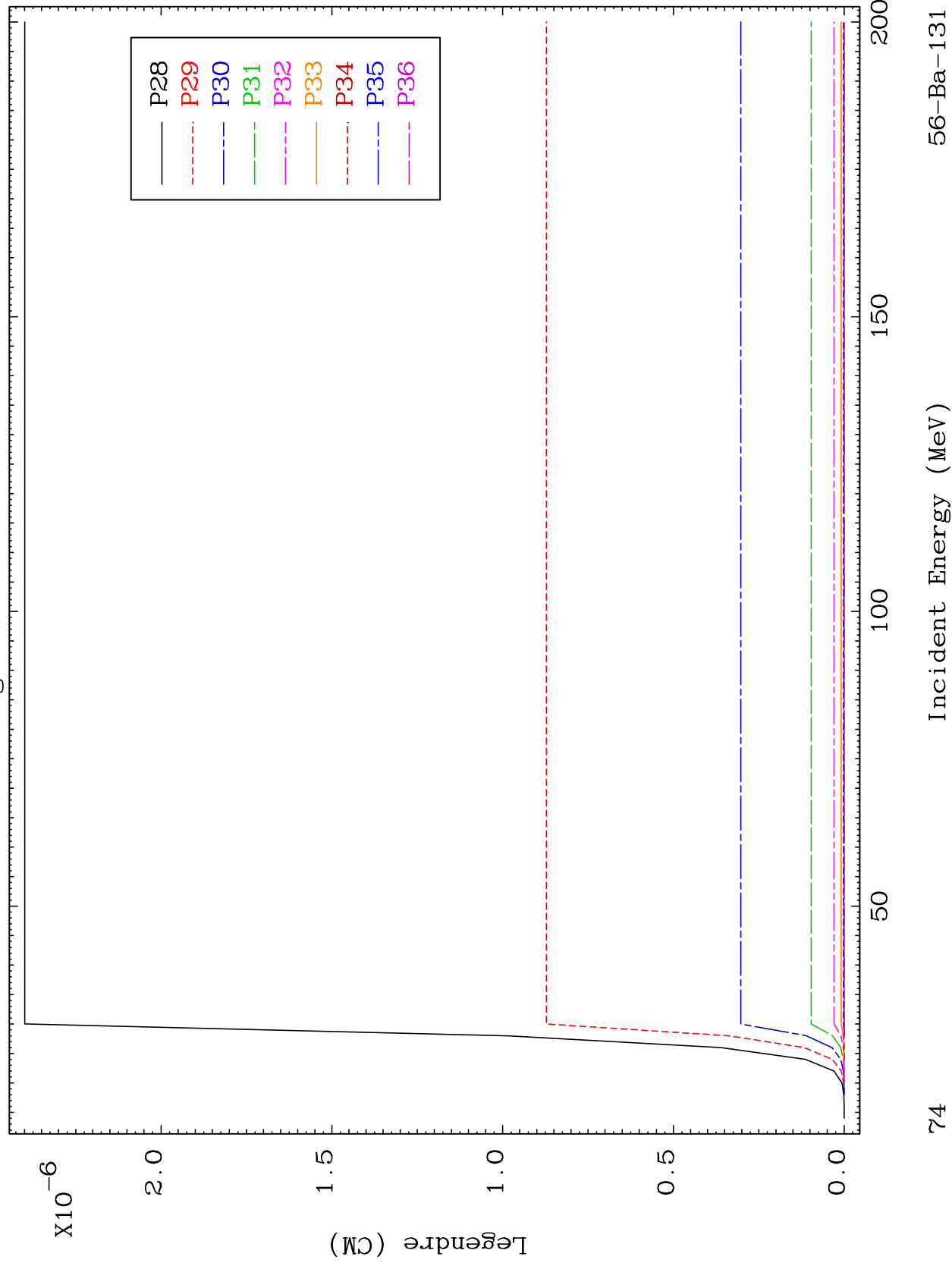
56-Ba-131



MAT 5628

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

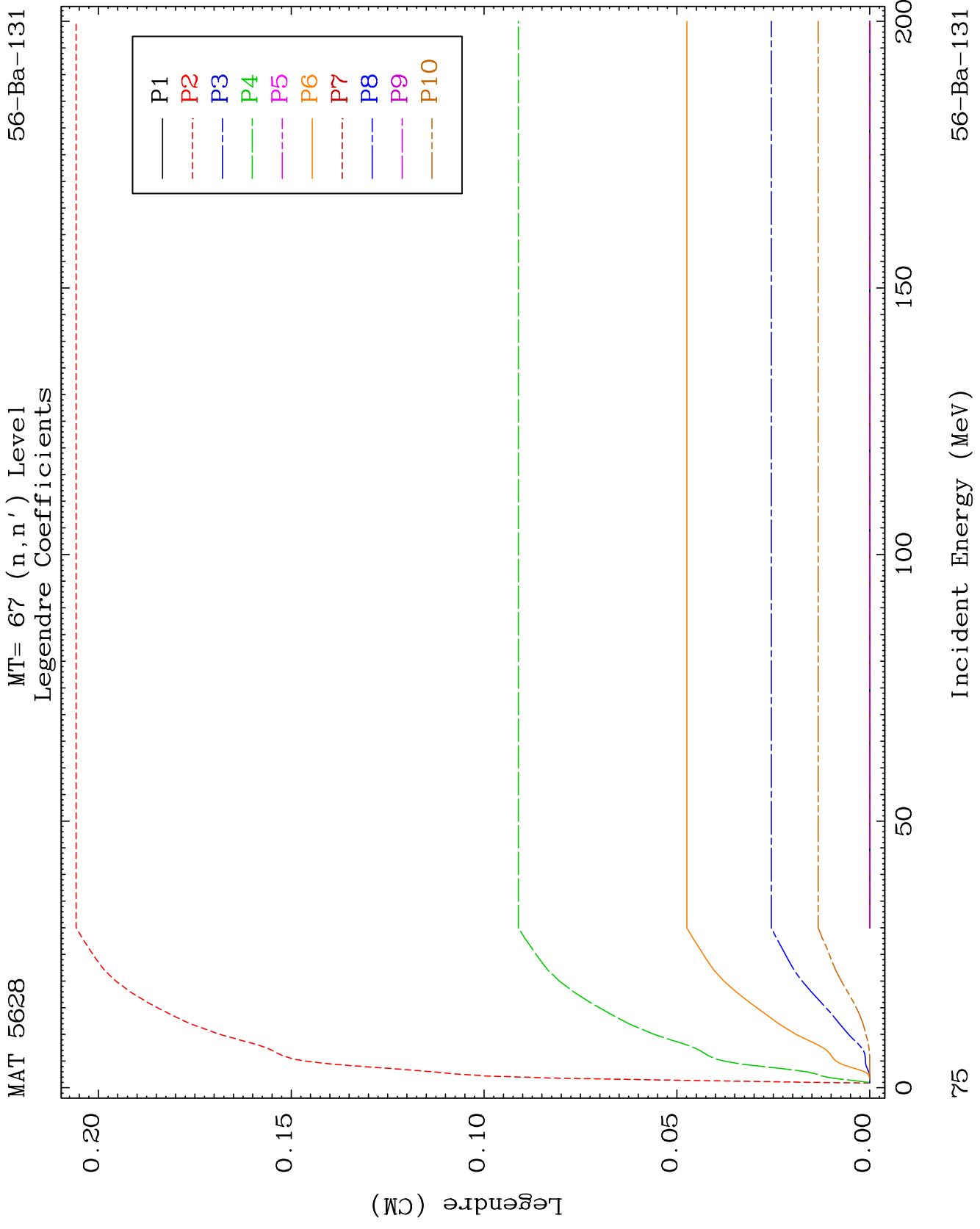
56-Ba-131



74

Incident Energy (MeV)

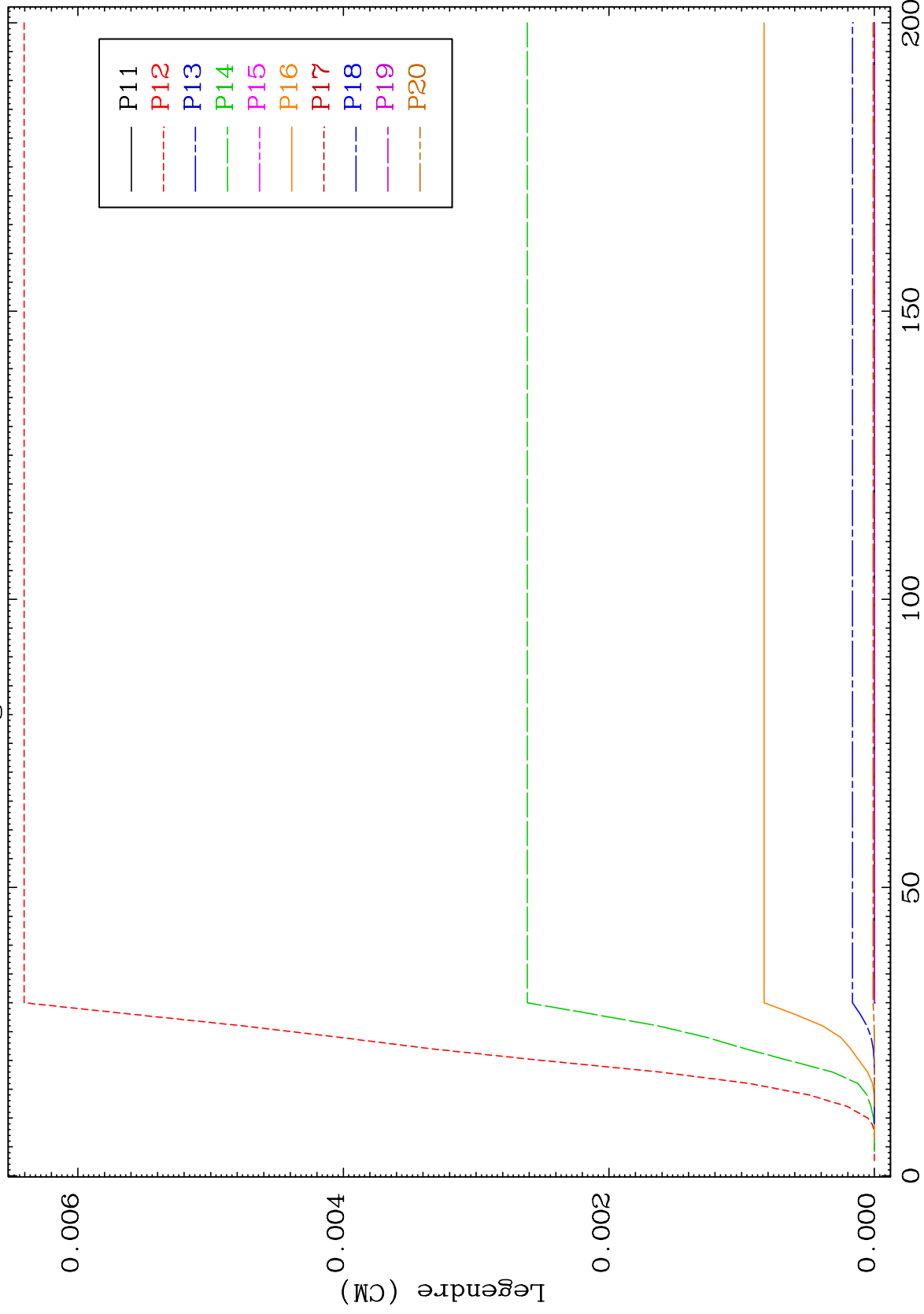
56-Ba-131



MAT 5628

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

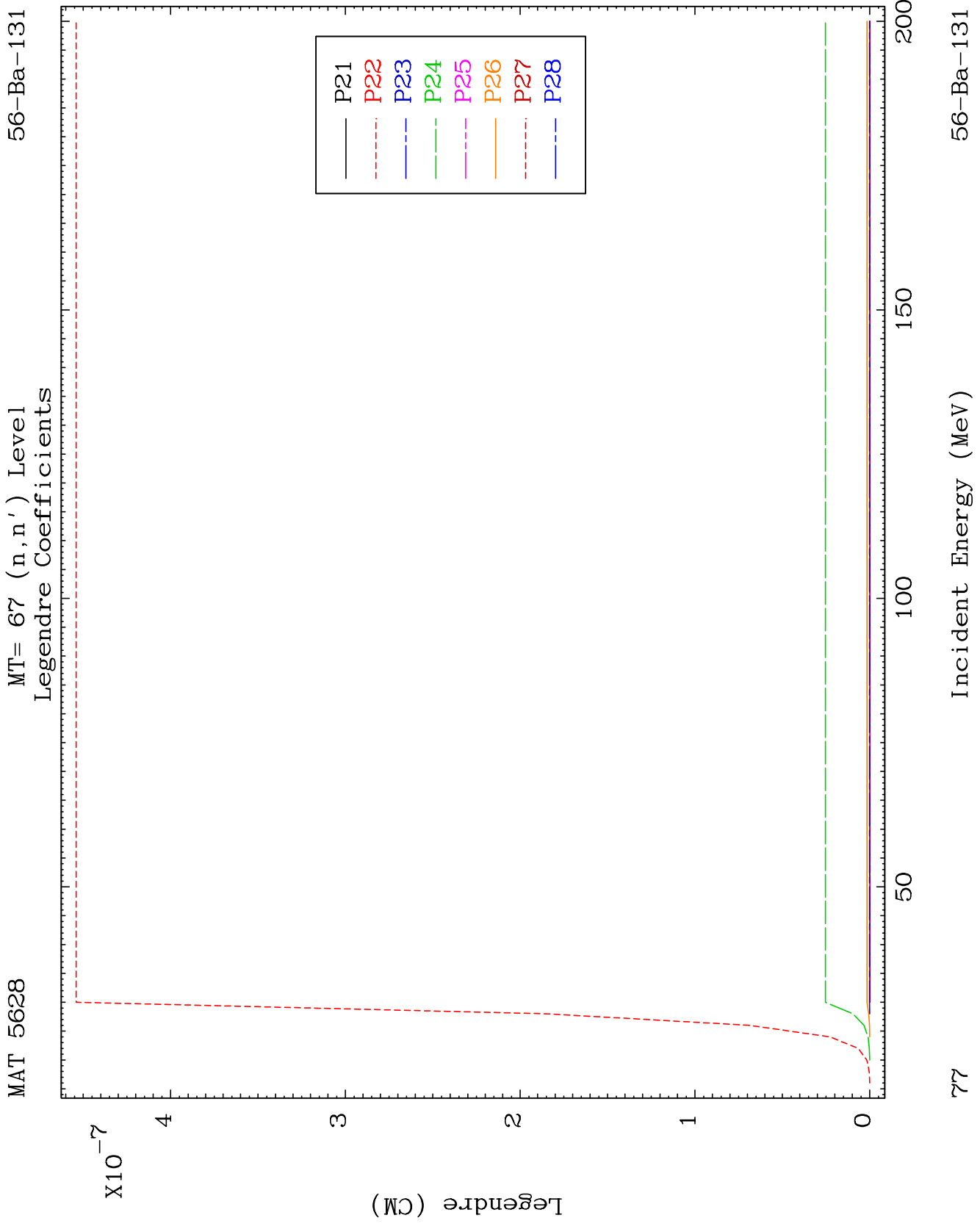
56-Ba-131



56-Ba-131

Incident Energy (MeV)

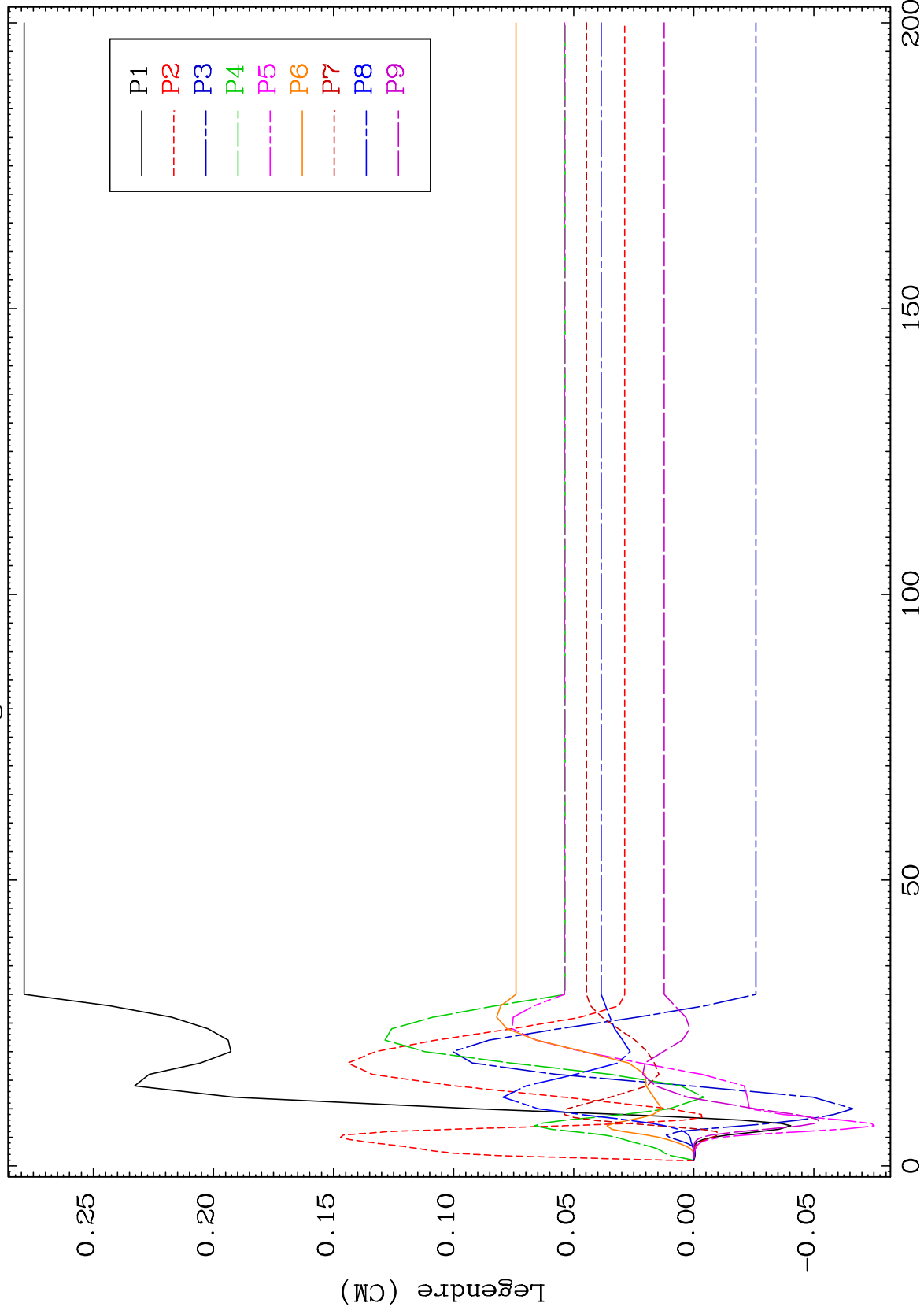
76



MAT 5628

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

56-Ba-131



56-Ba-131

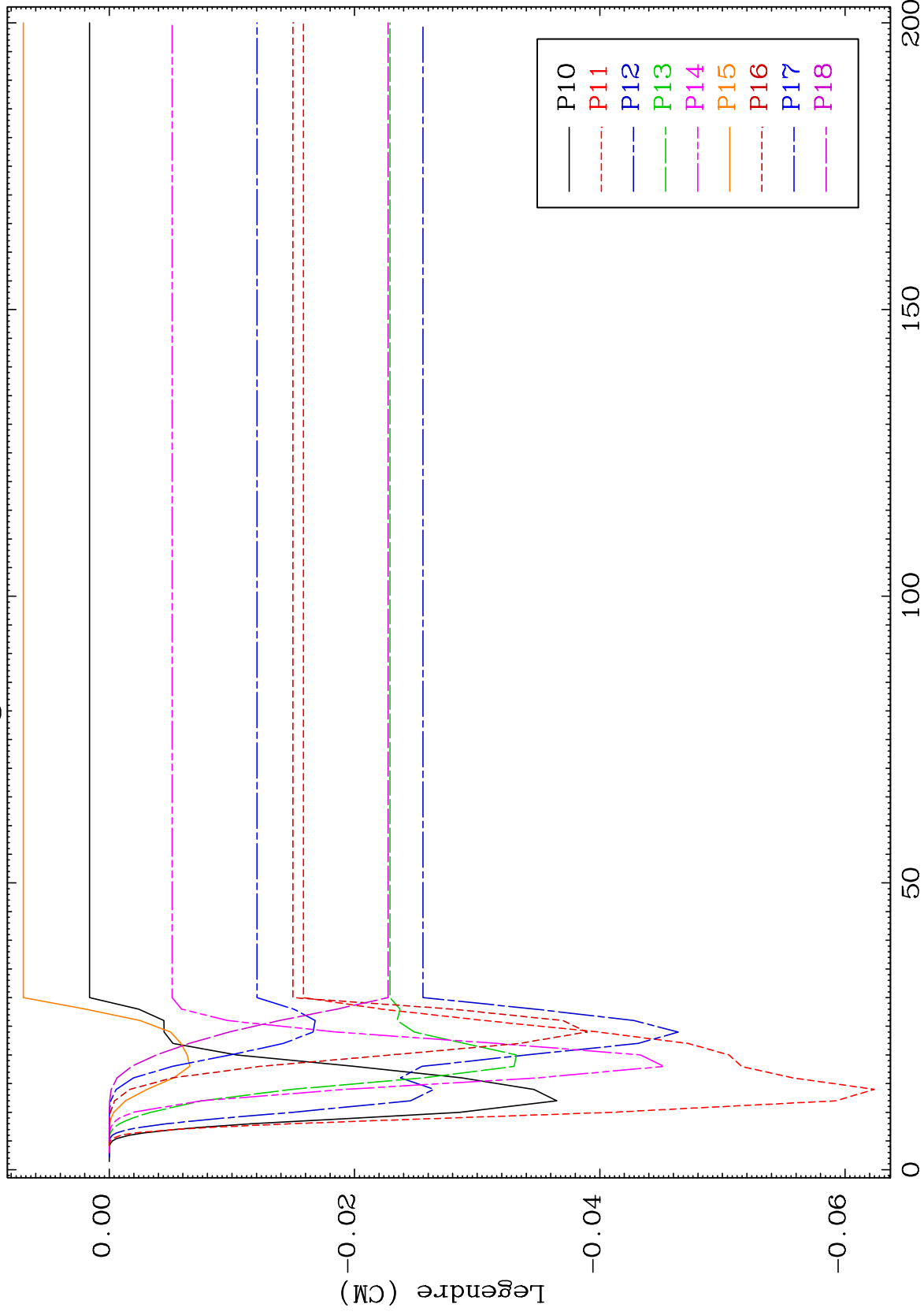
Incident Energy (MeV)

78

MAT 5628

56-Ba-131

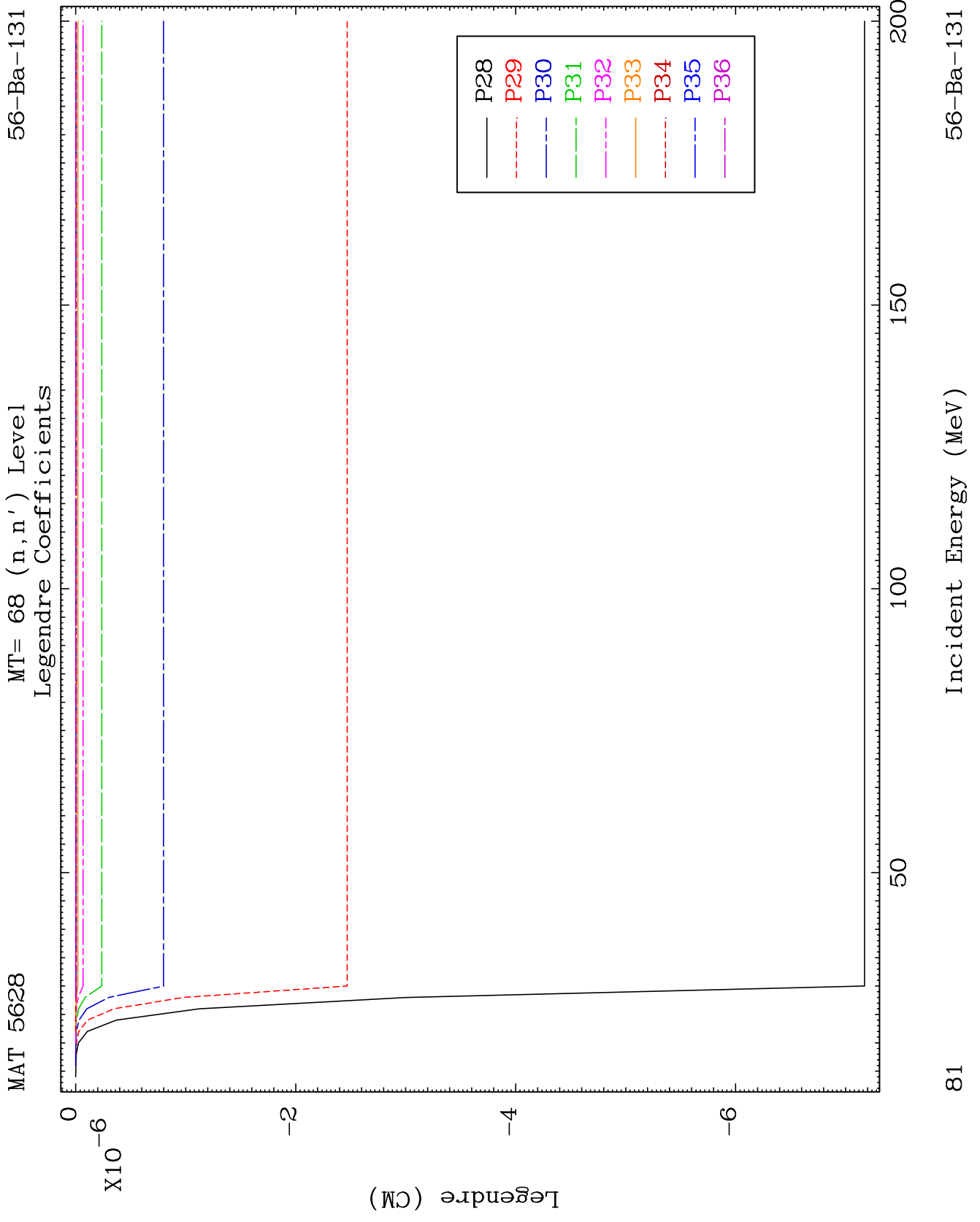
MT= 68 (n,n') Level
Legendre Coefficients

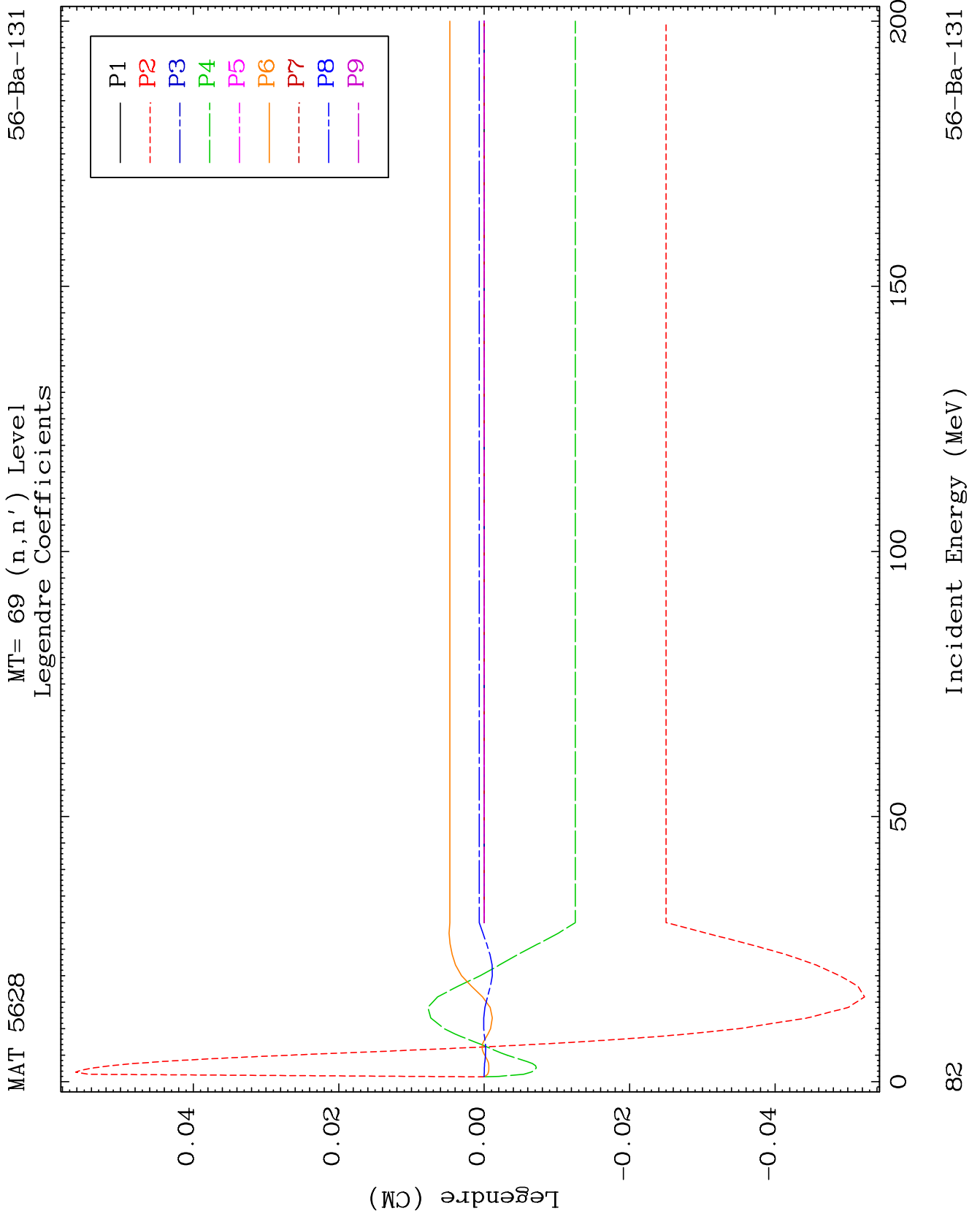


79

Incident Energy (MeV)

56-Ba-131

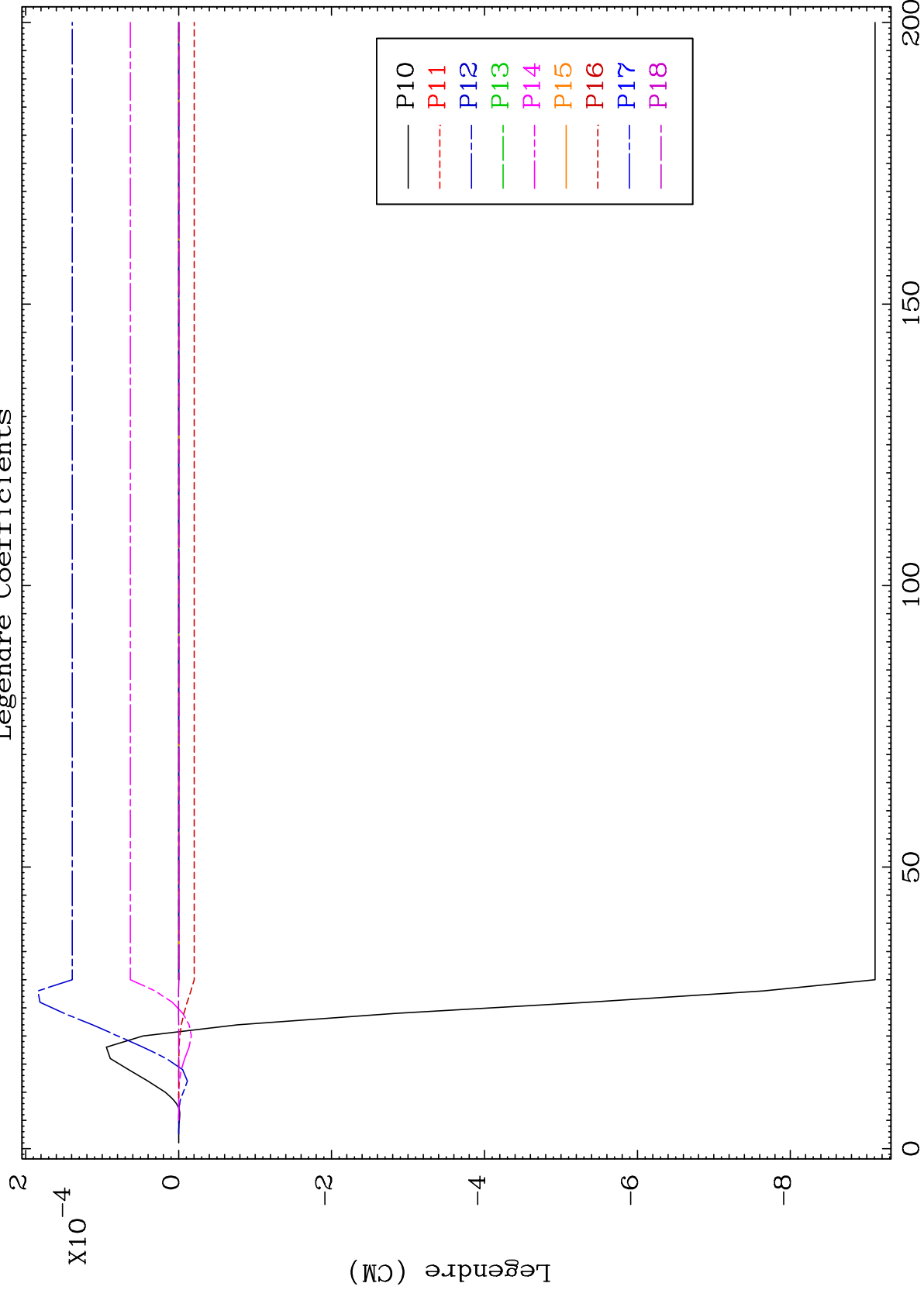




MAT 5628

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

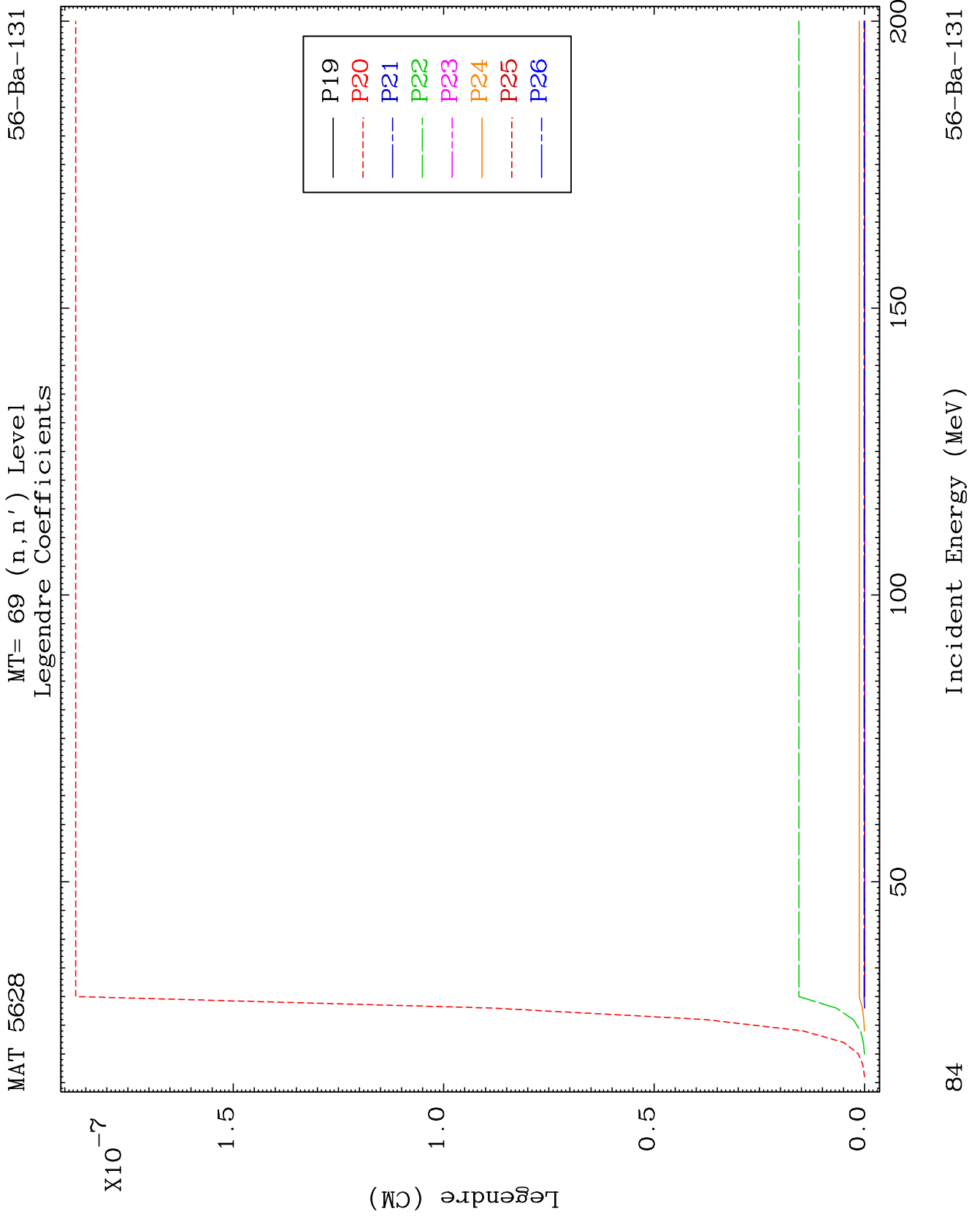
56-Ba-131



83

Incident Energy (MeV)

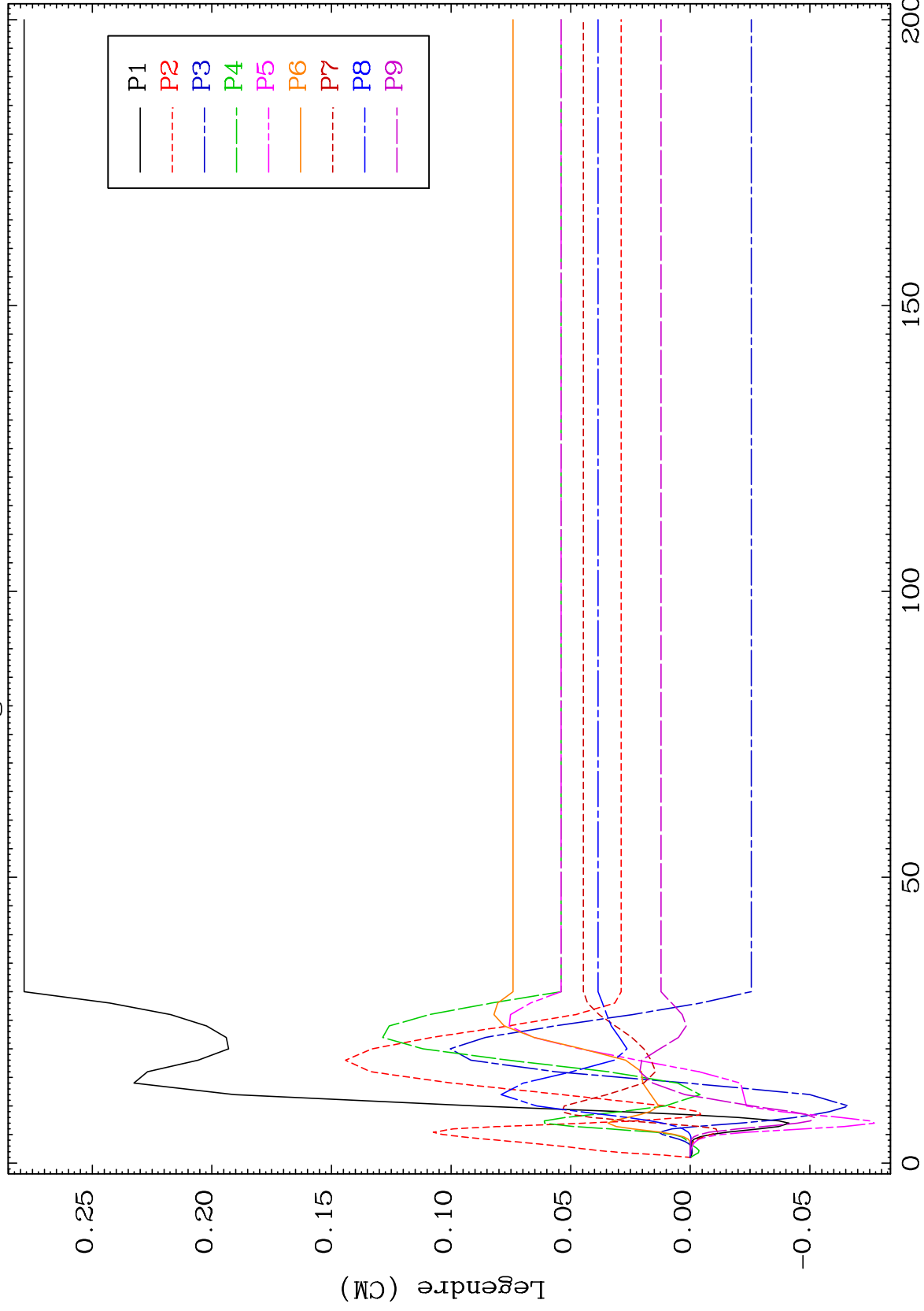
56-Ba-131



MAT 5628

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

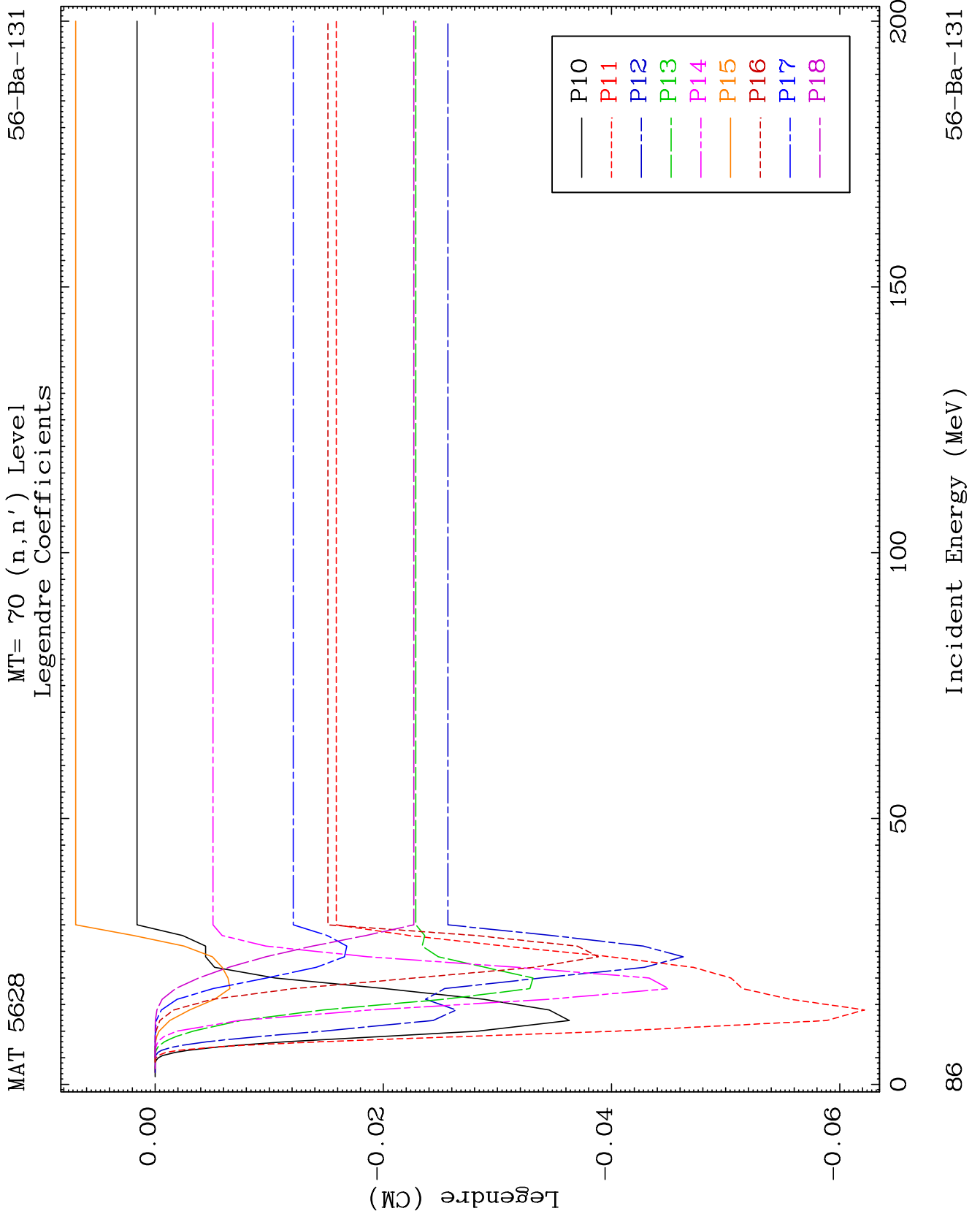
56-Ba-131

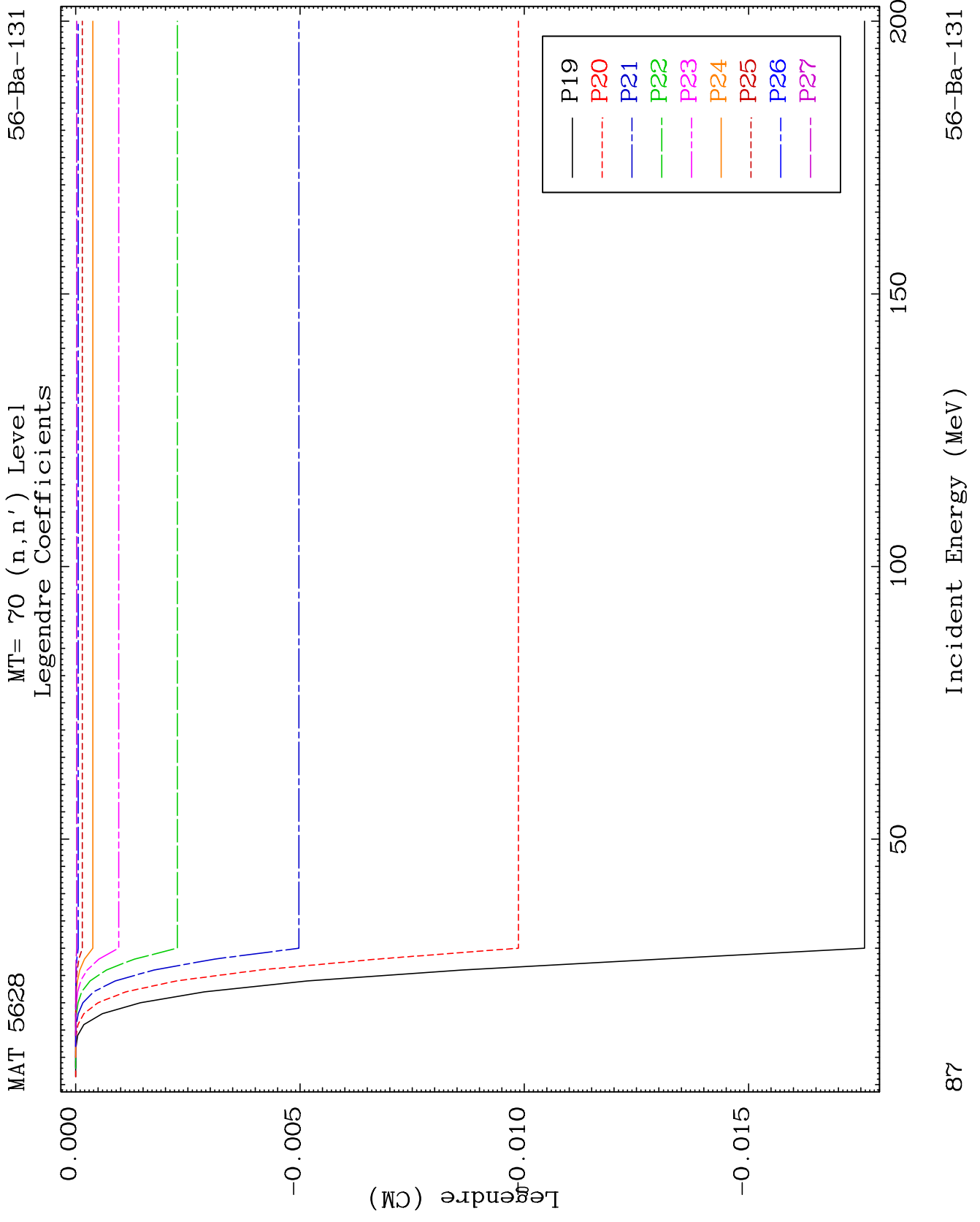


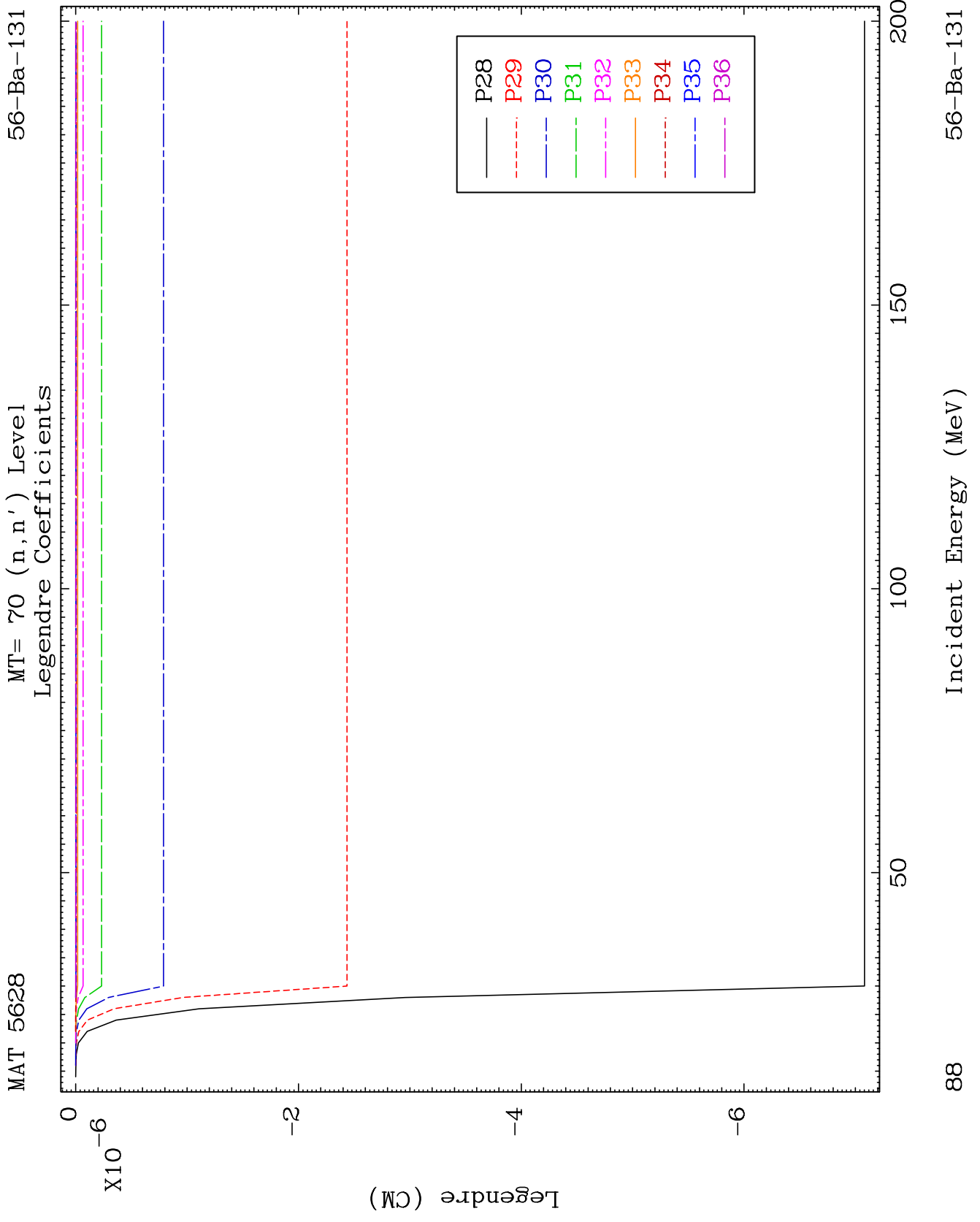
85

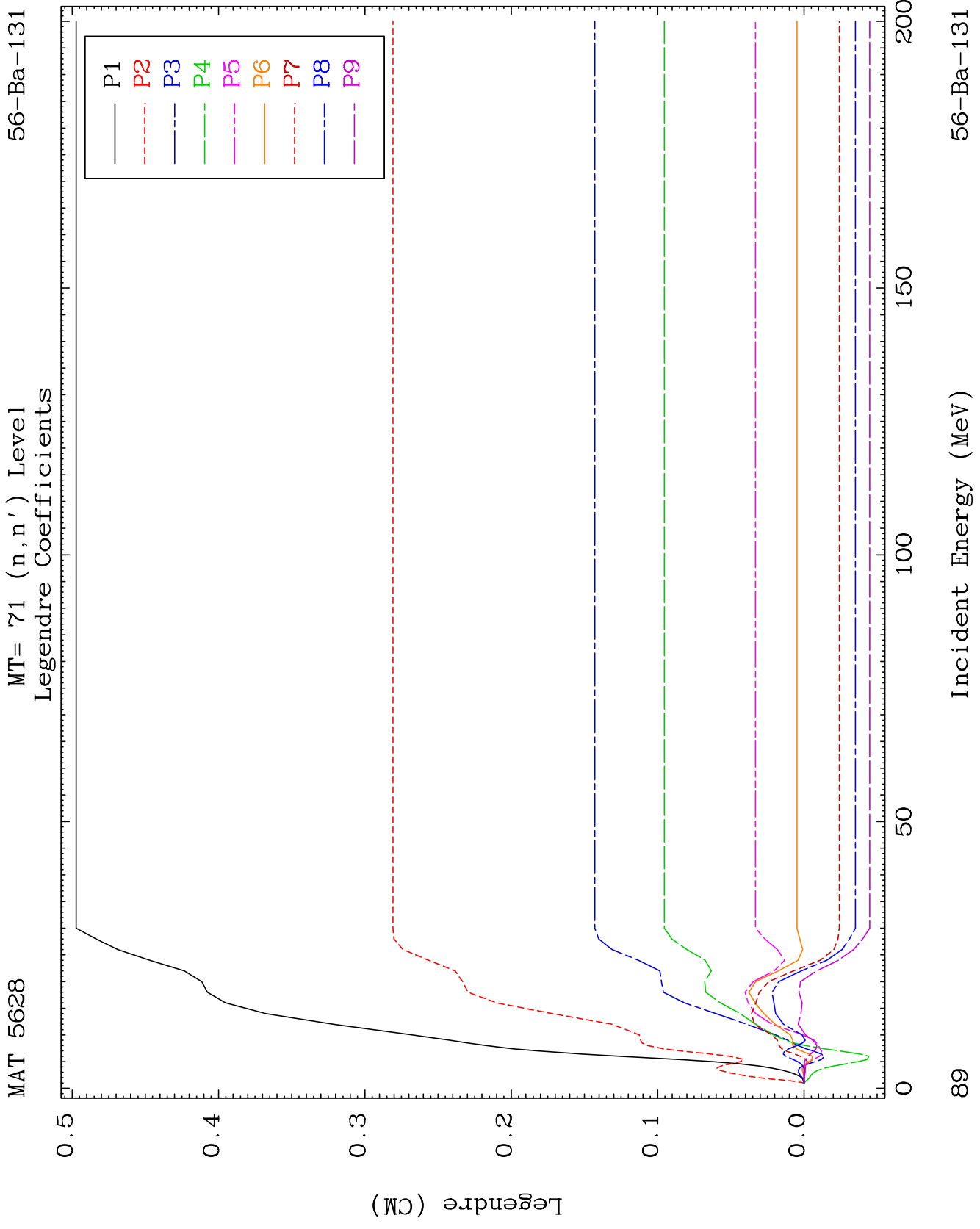
Incident Energy (MeV)

56-Ba-131





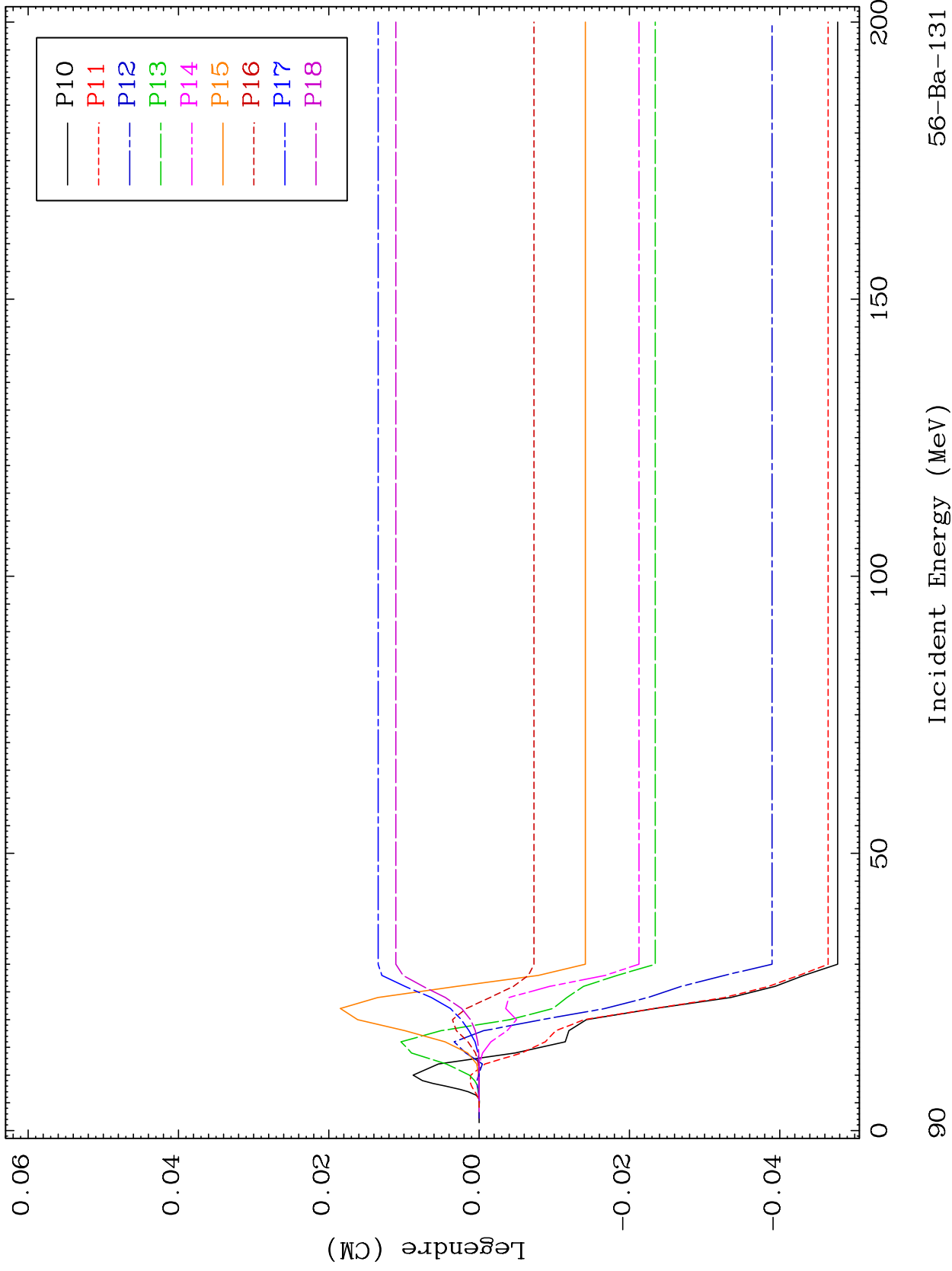


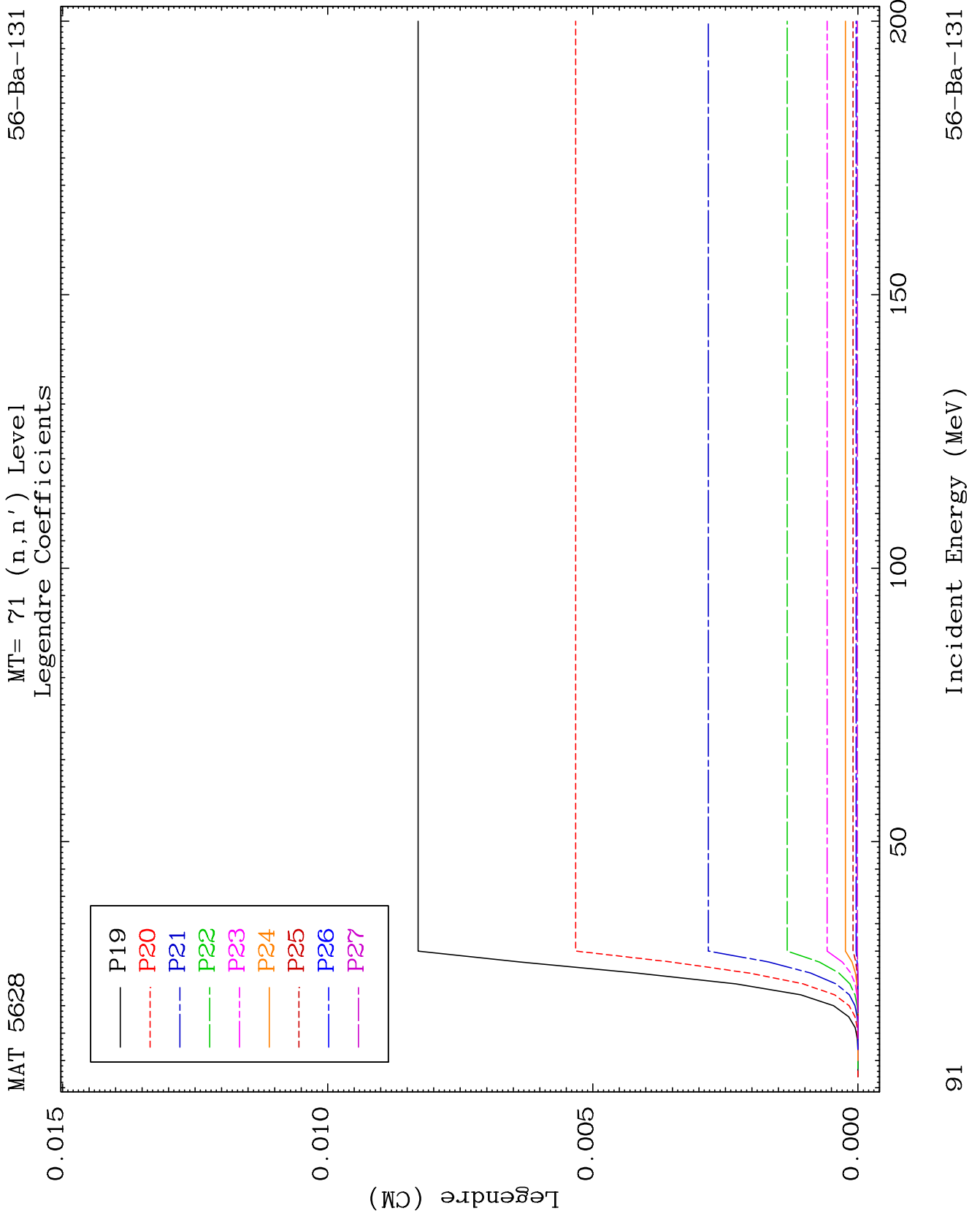


MAT 5628

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

56-Ba-131

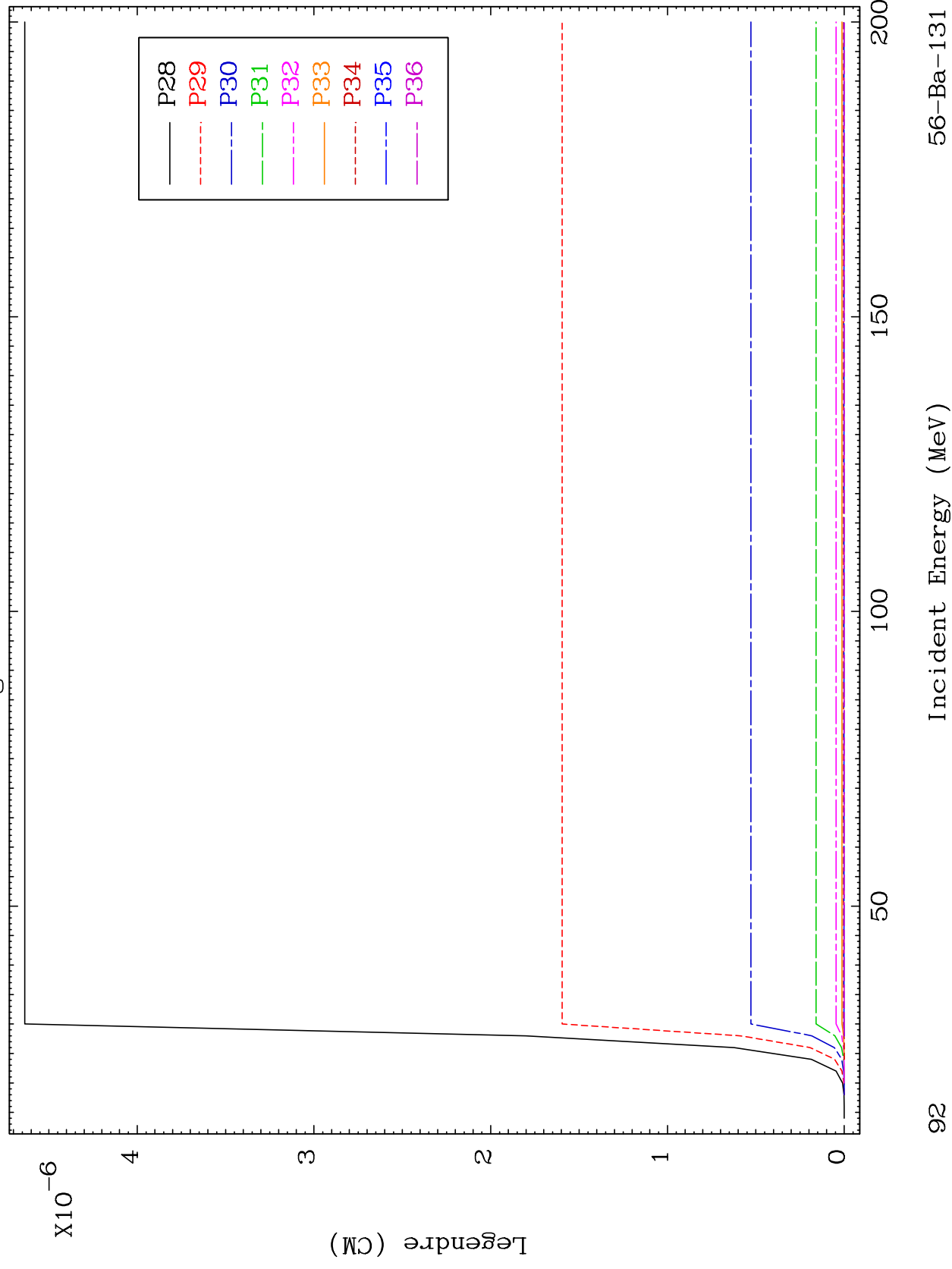




MAT 5628

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

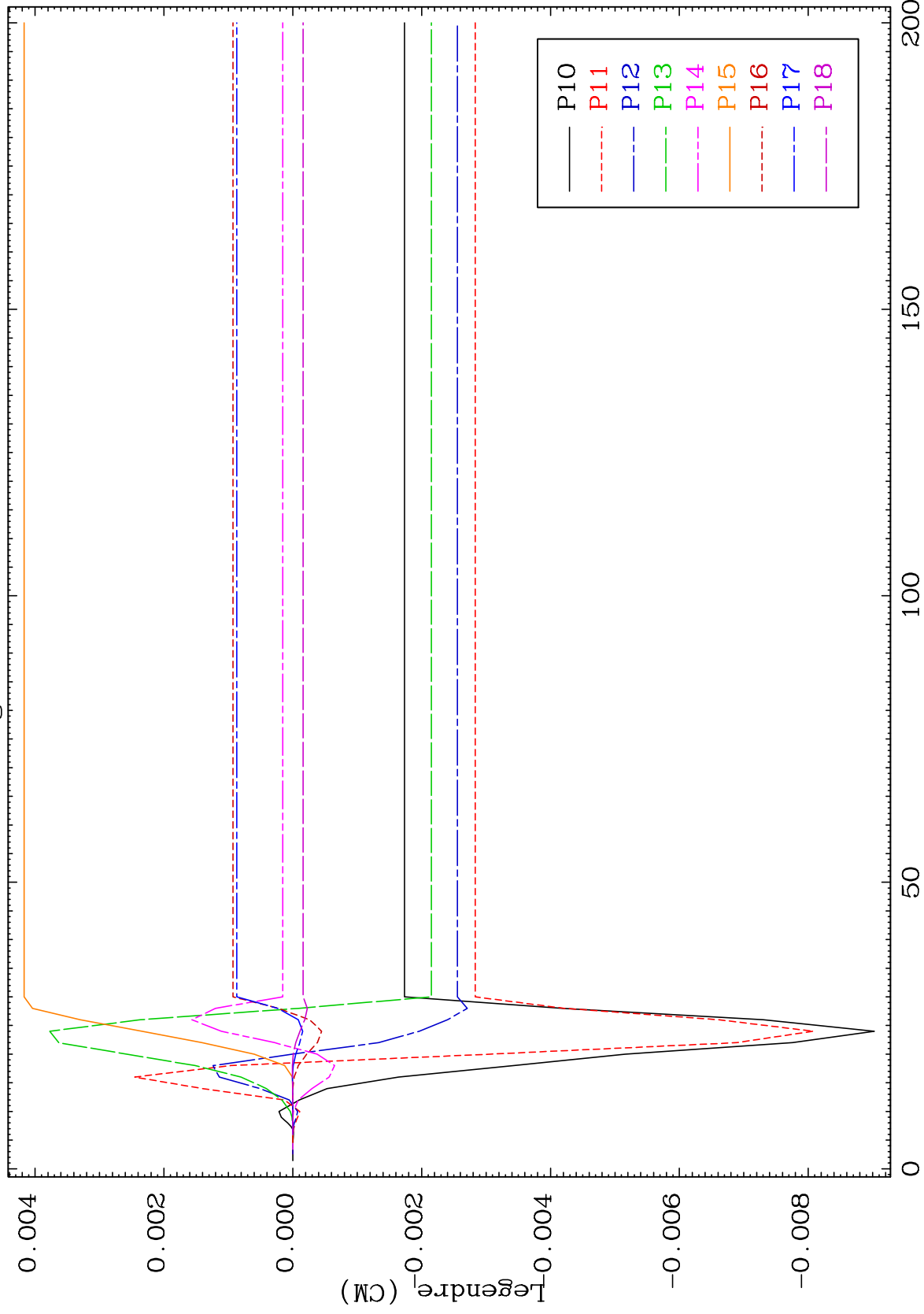
56-Ba-131



MAT 5628

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

56-Ba-131



94

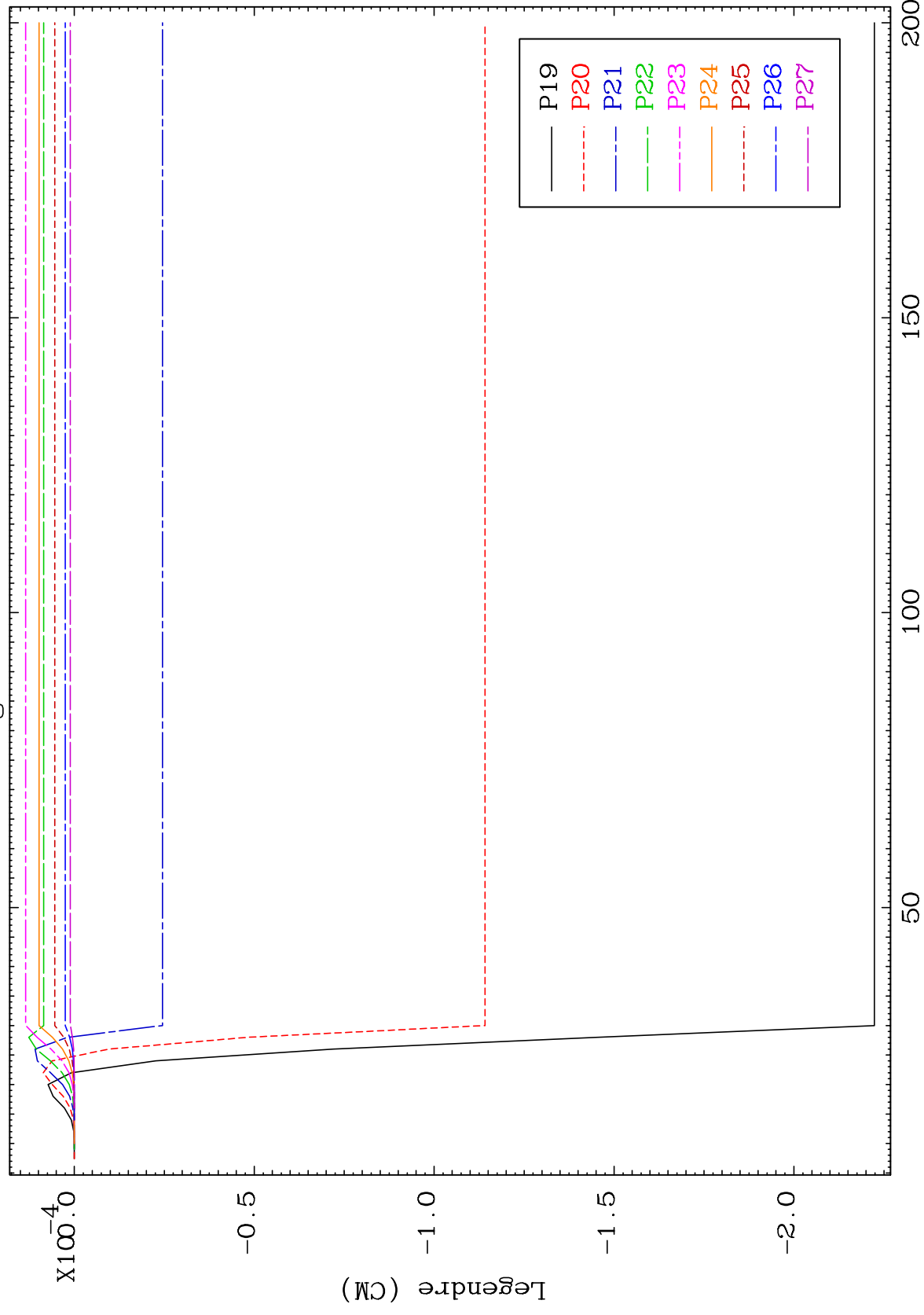
Incident Energy (MeV)

56-Ba-131

MAT 5628

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

56-Ba-131



95

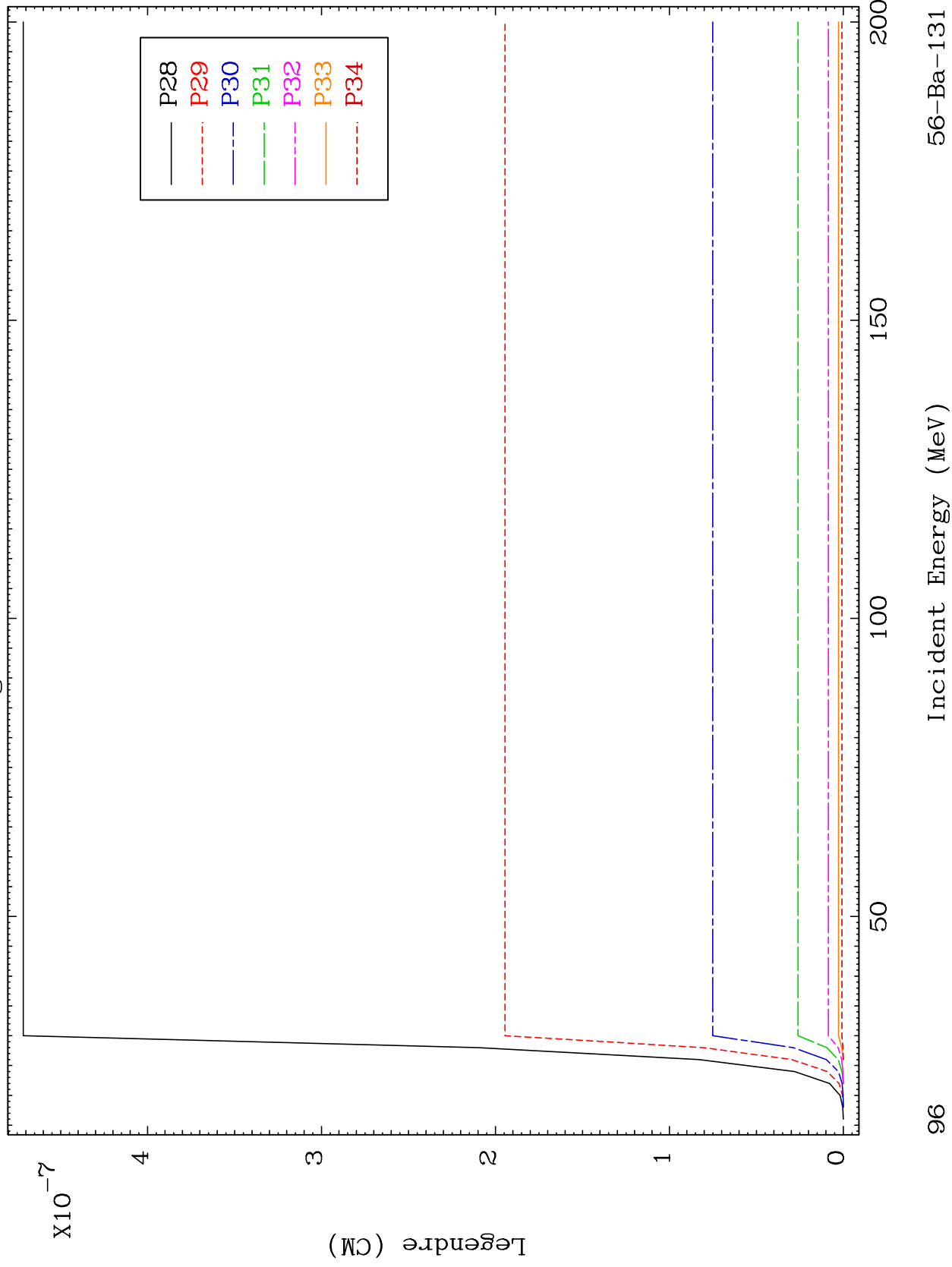
Incident Energy (MeV)

56-Ba-131

MAT 5628

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

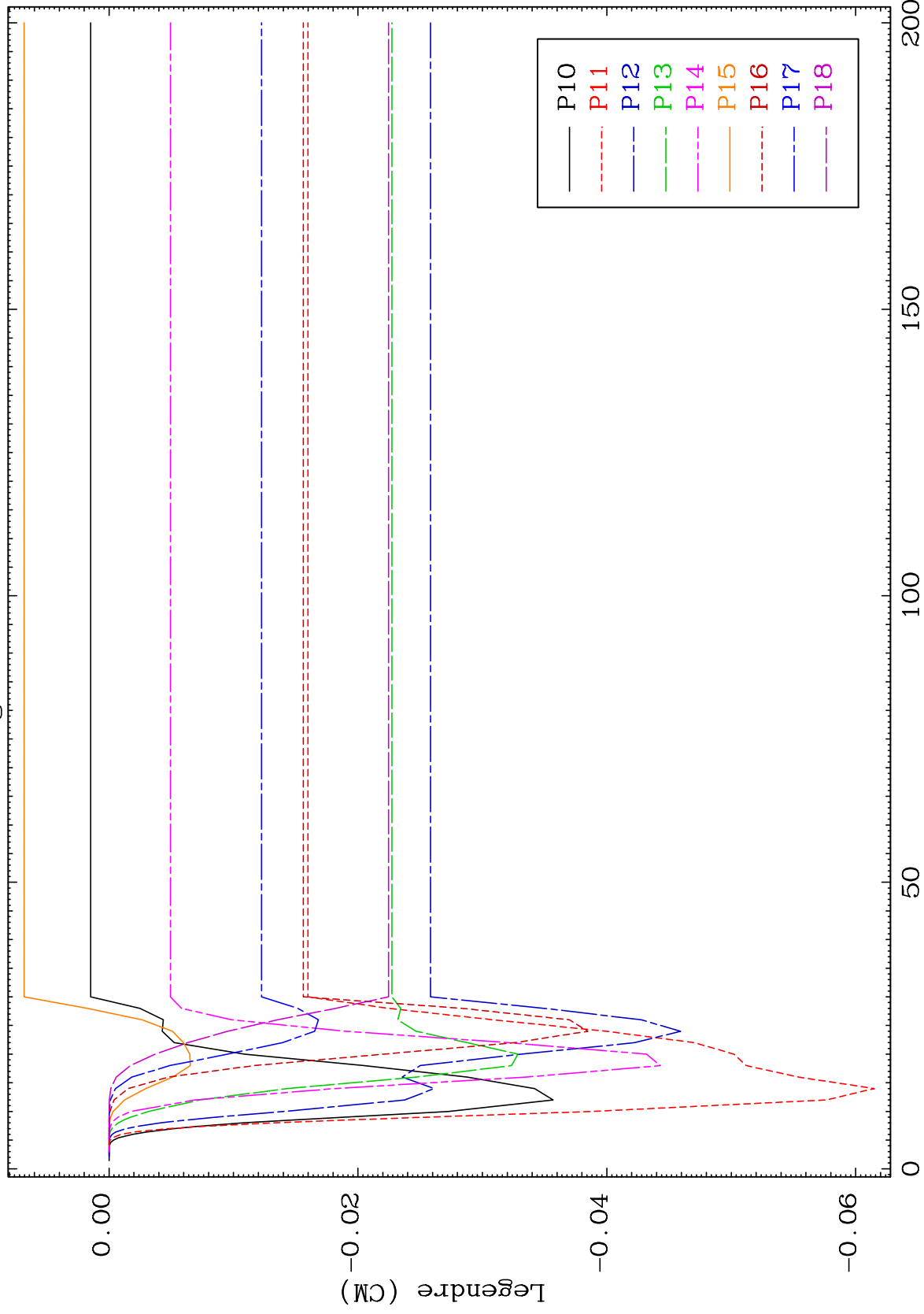
56-Ba-131



MAT 5628

56-Ba-131

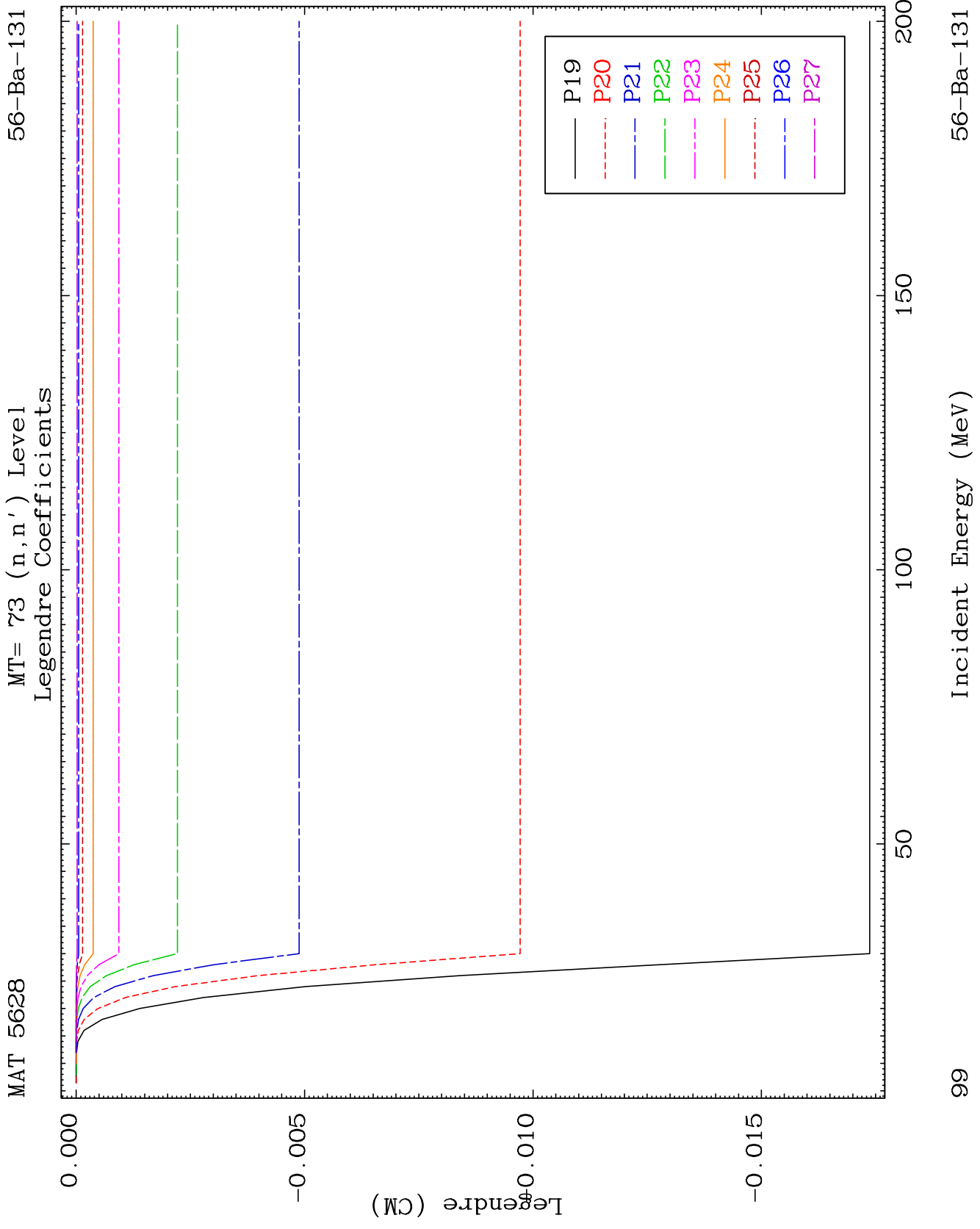
MT= 73 (n,n') Level
Legendre Coefficients

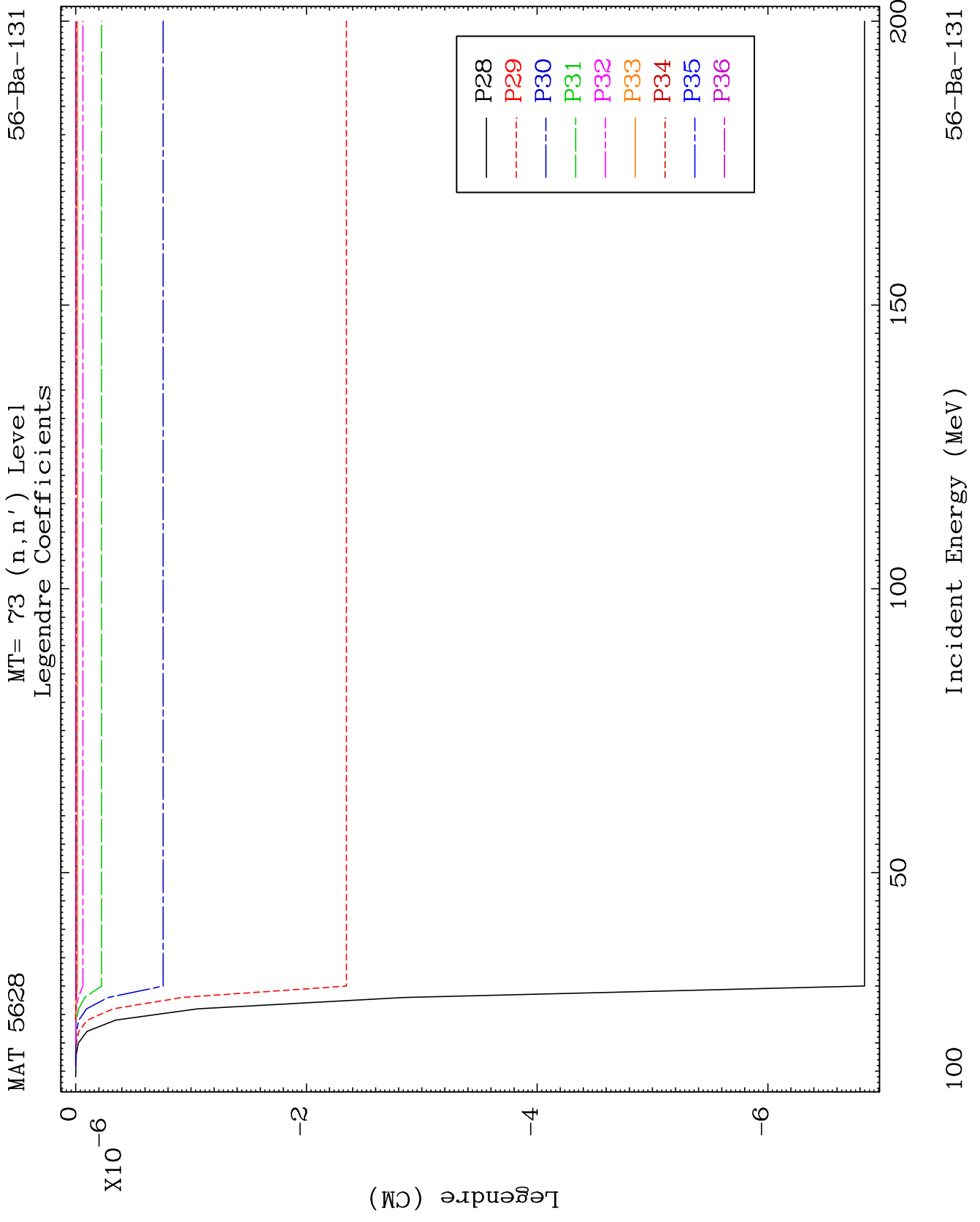


98

Incident Energy (MeV)

56-Ba-131

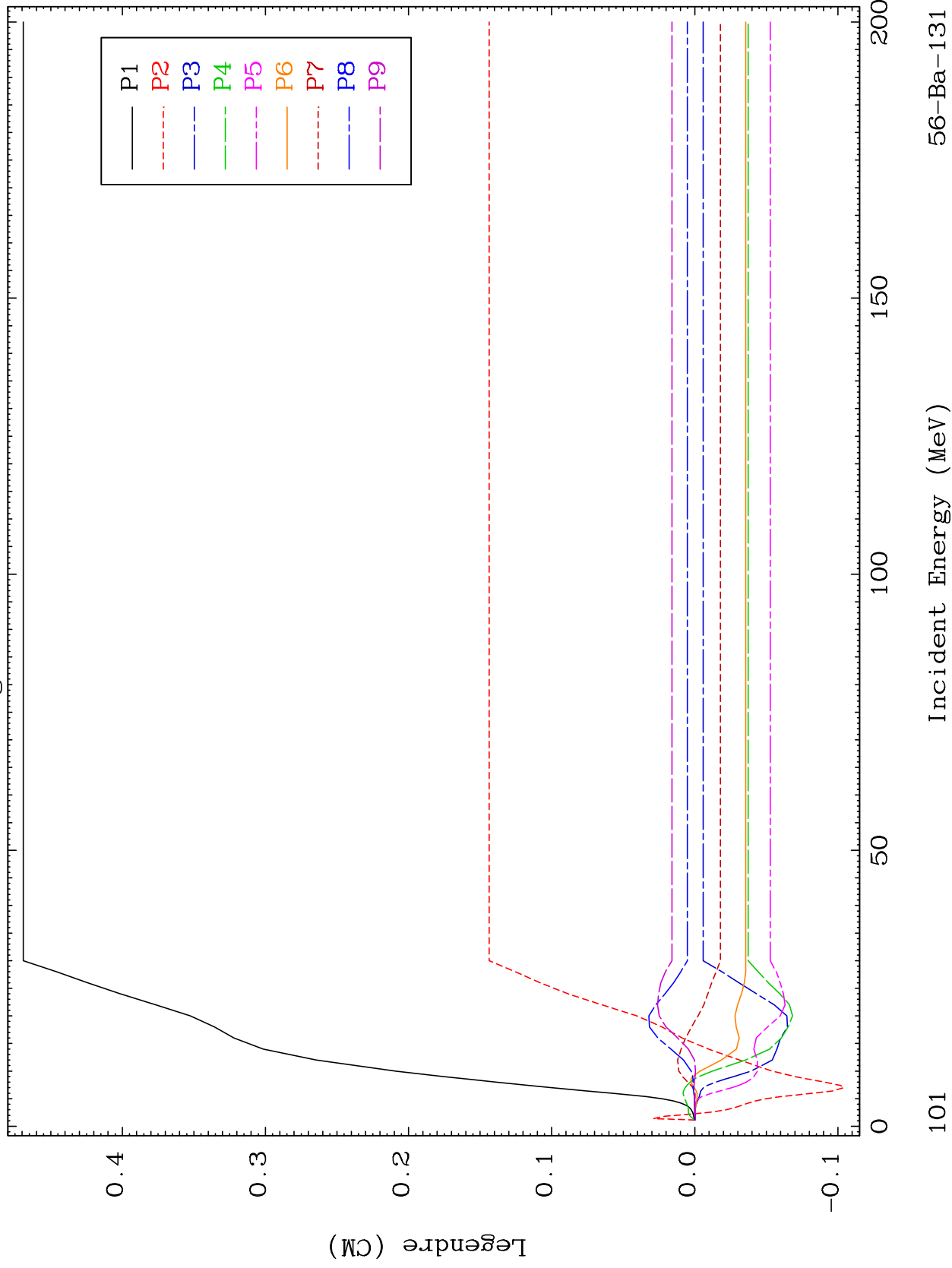




MAT 5628

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

56-Ba-131



56-Ba-131

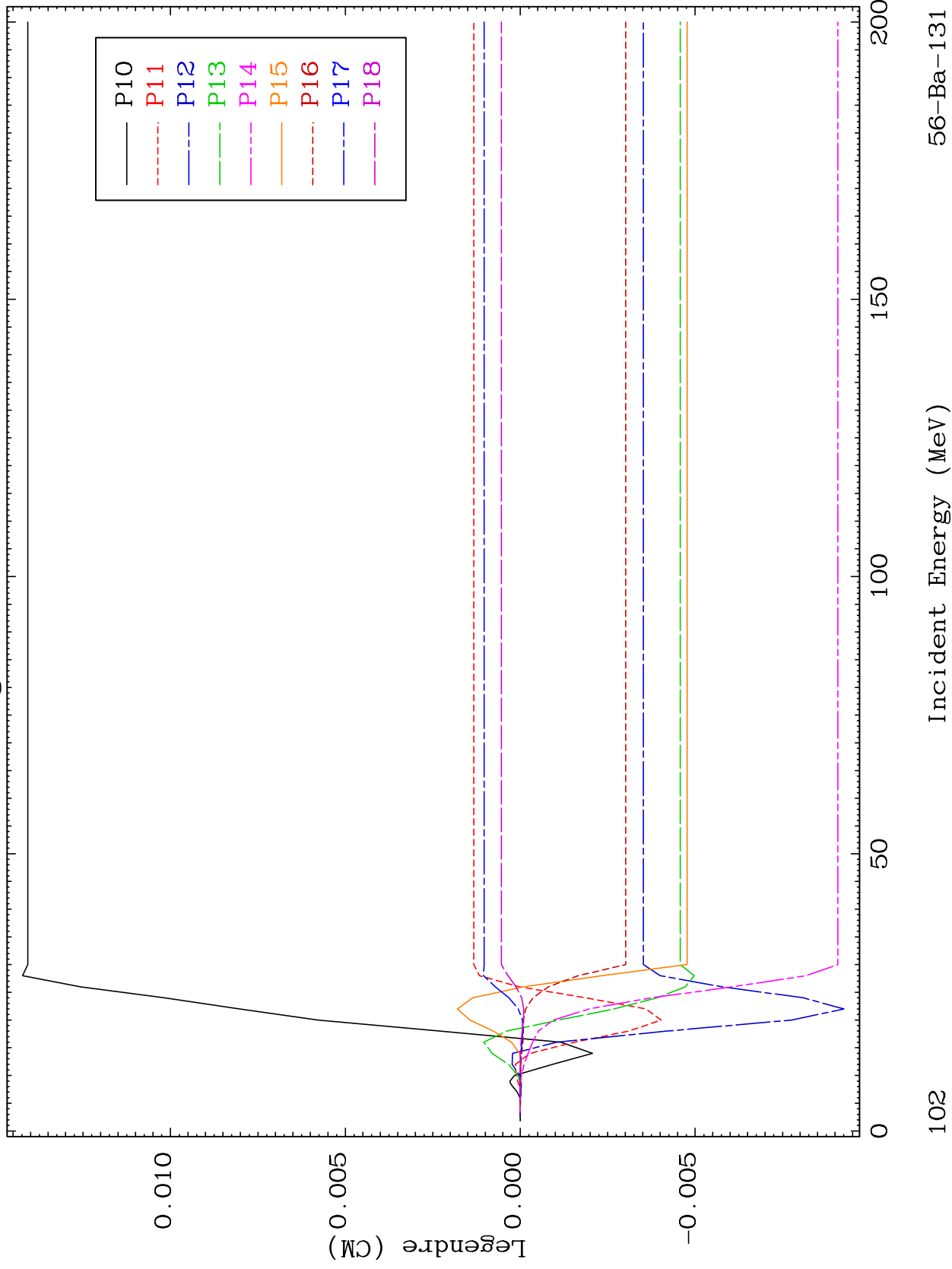
Incident Energy (MeV)

101

MAT 5628

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

56-Ba-131



56-Ba-131

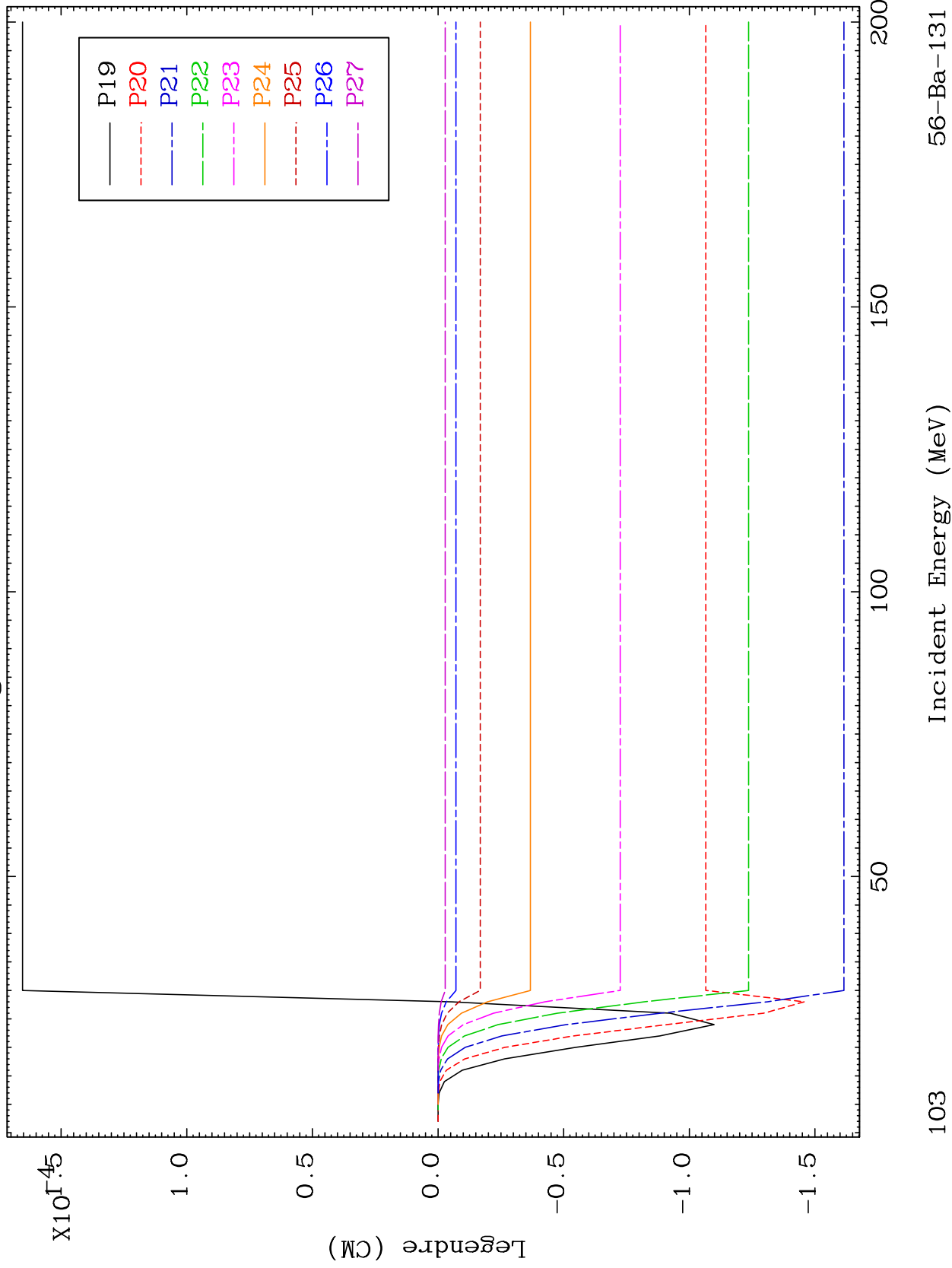
Incident Energy (MeV)

102

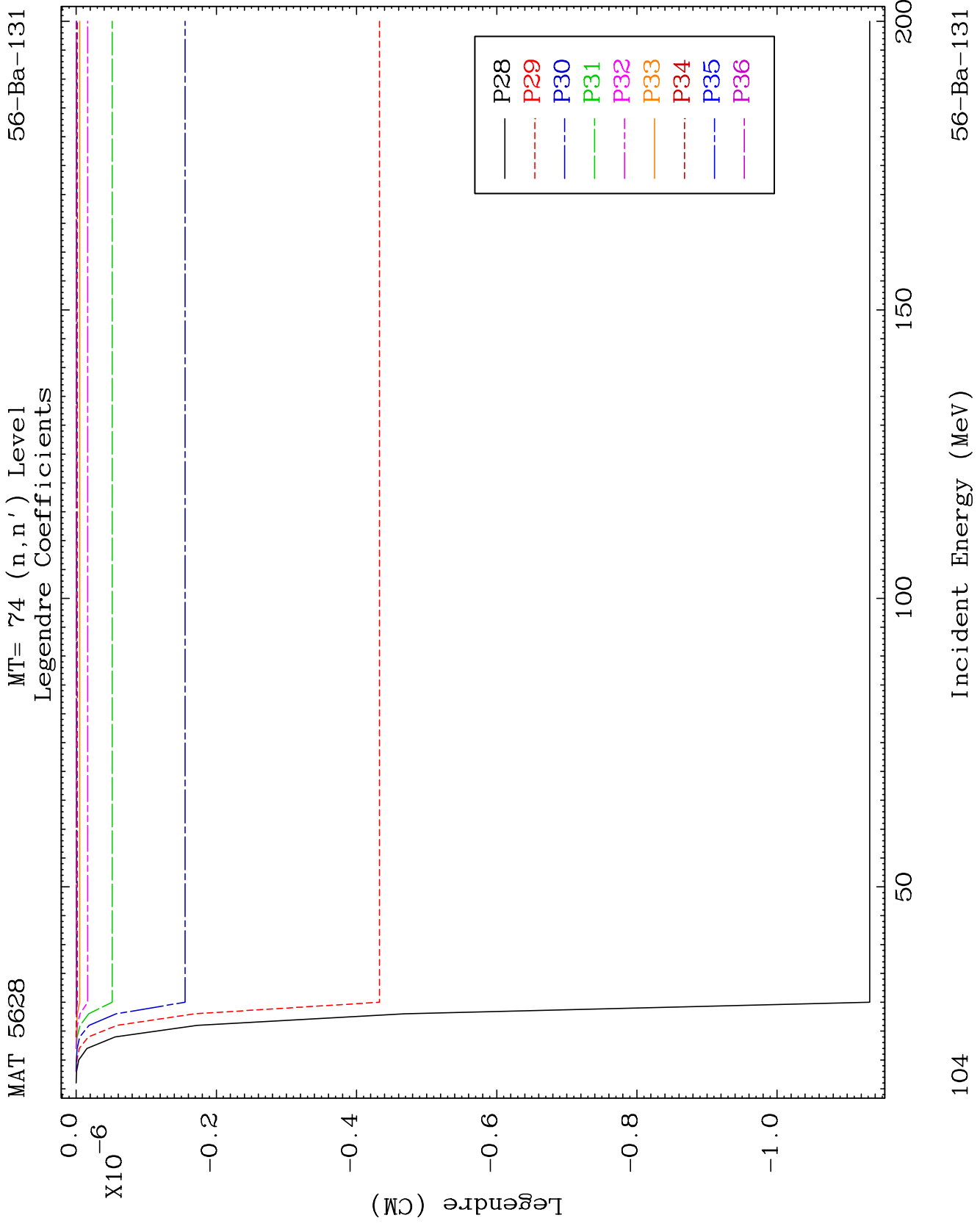
MAT 5628

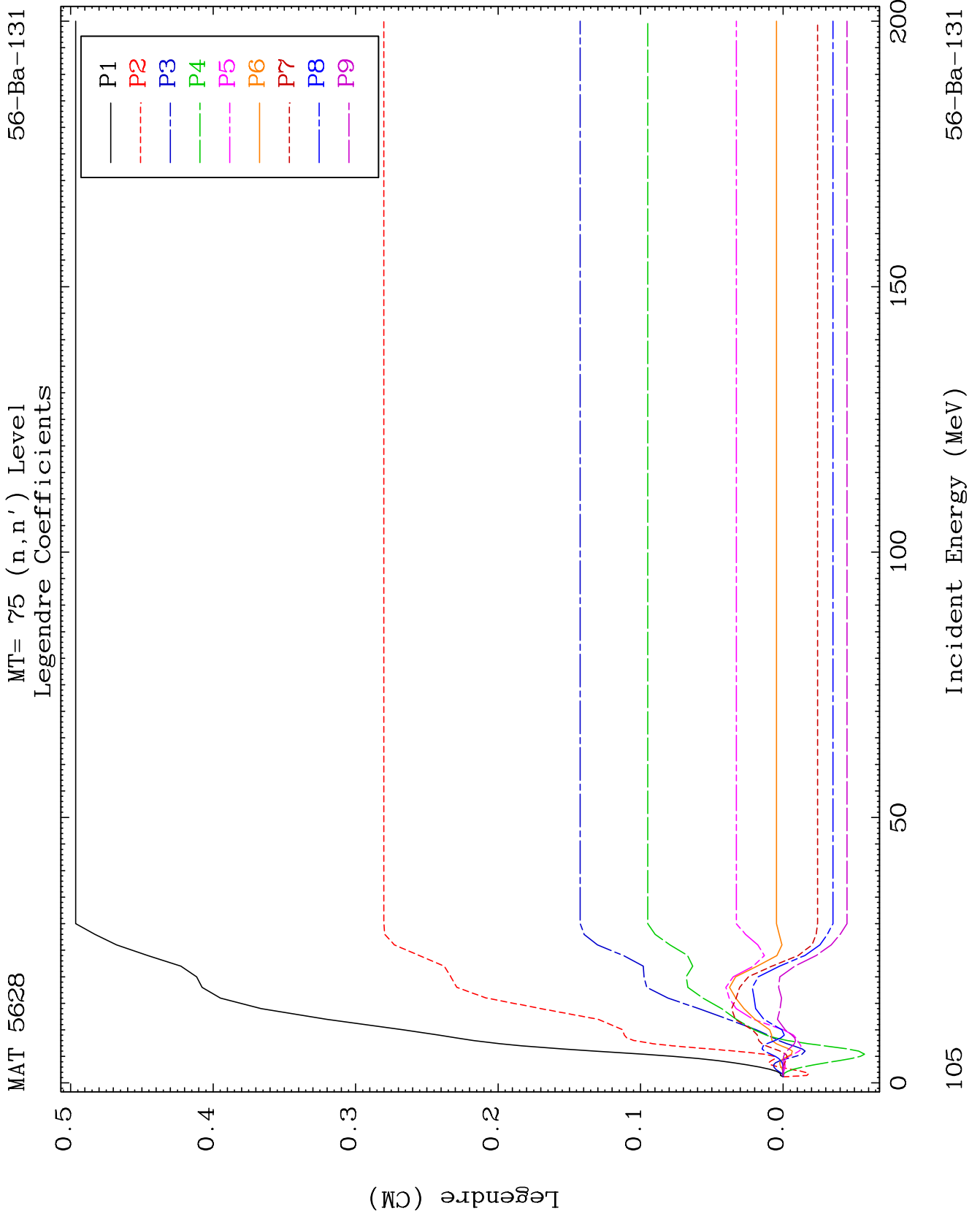
MT= 74 (n,n') Level
Legendre Coefficients

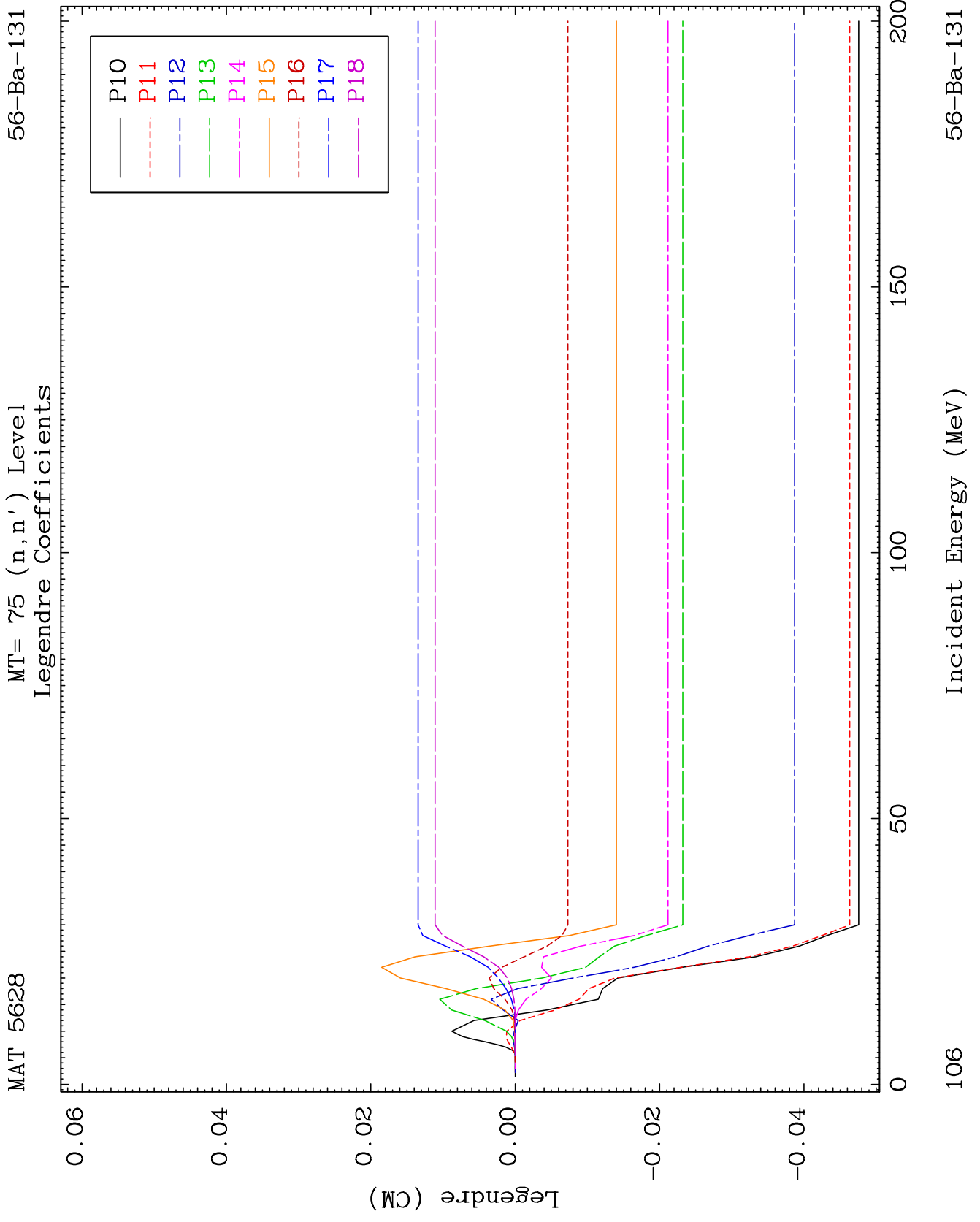
56-Ba-131



56-Ba-131



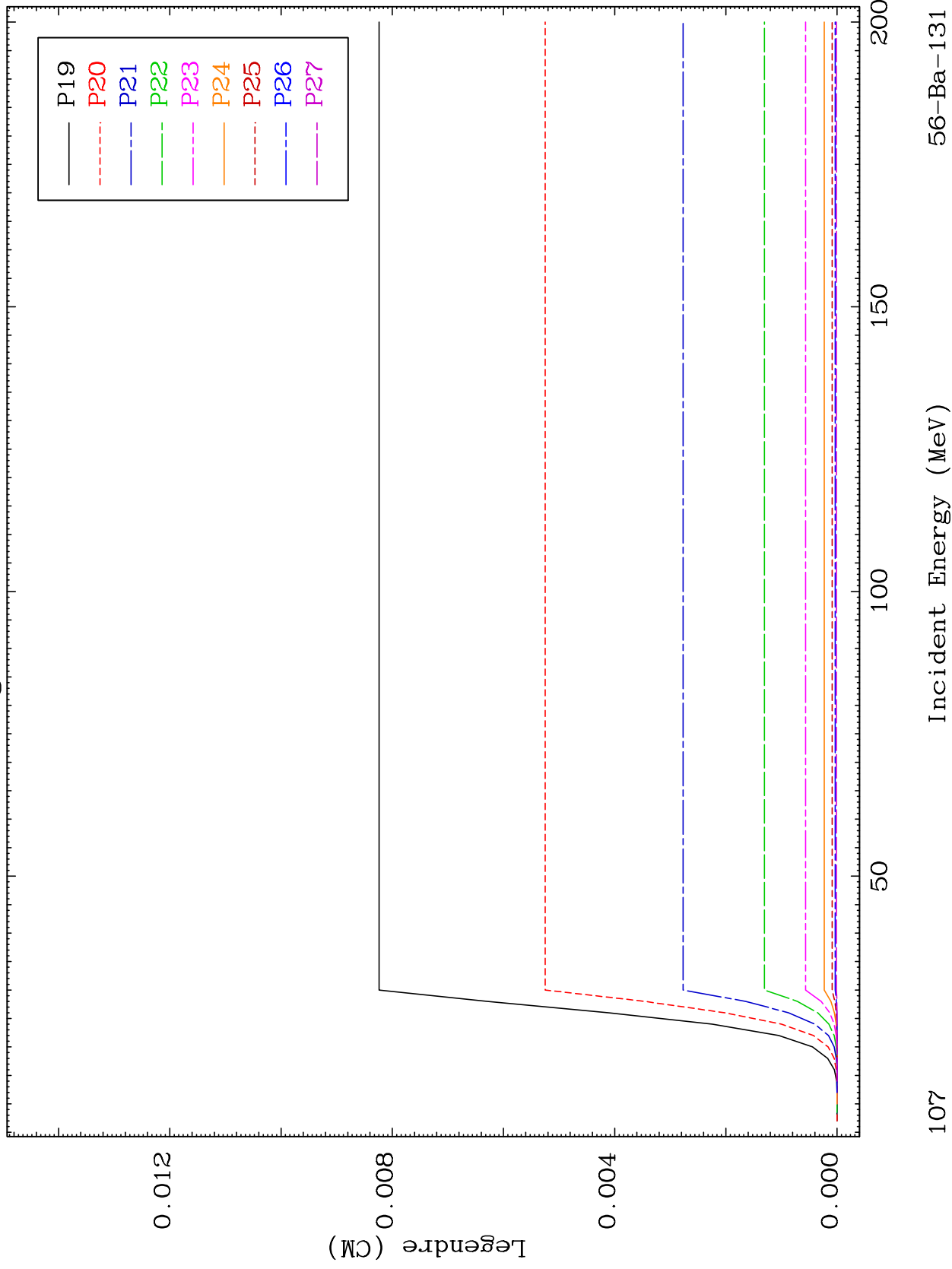




MAT 5628

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

56-Ba-131



107

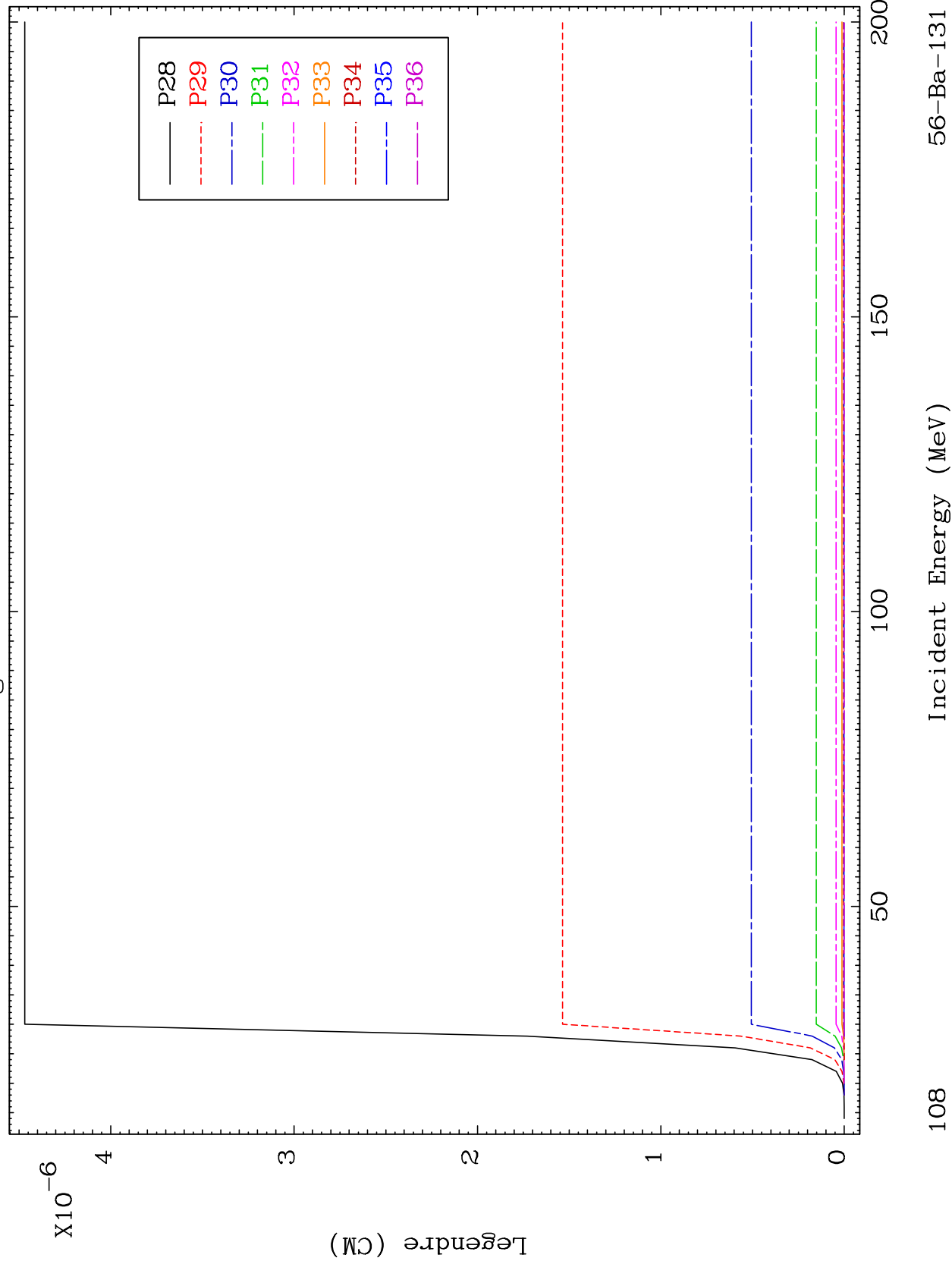
Incident Energy (MeV)

56-Ba-131

MAT 5628

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

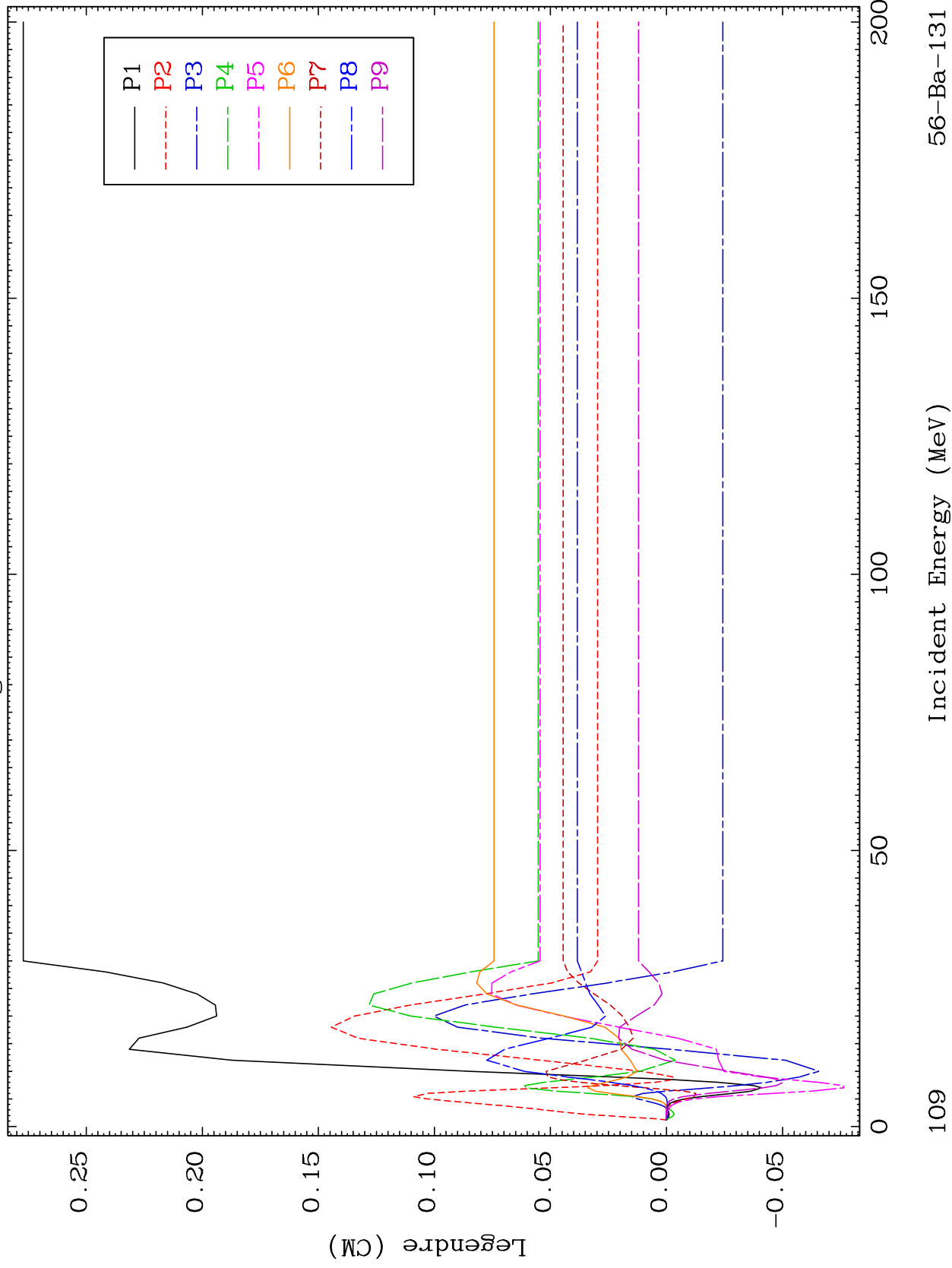
56-Ba-131



MAT 5628

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

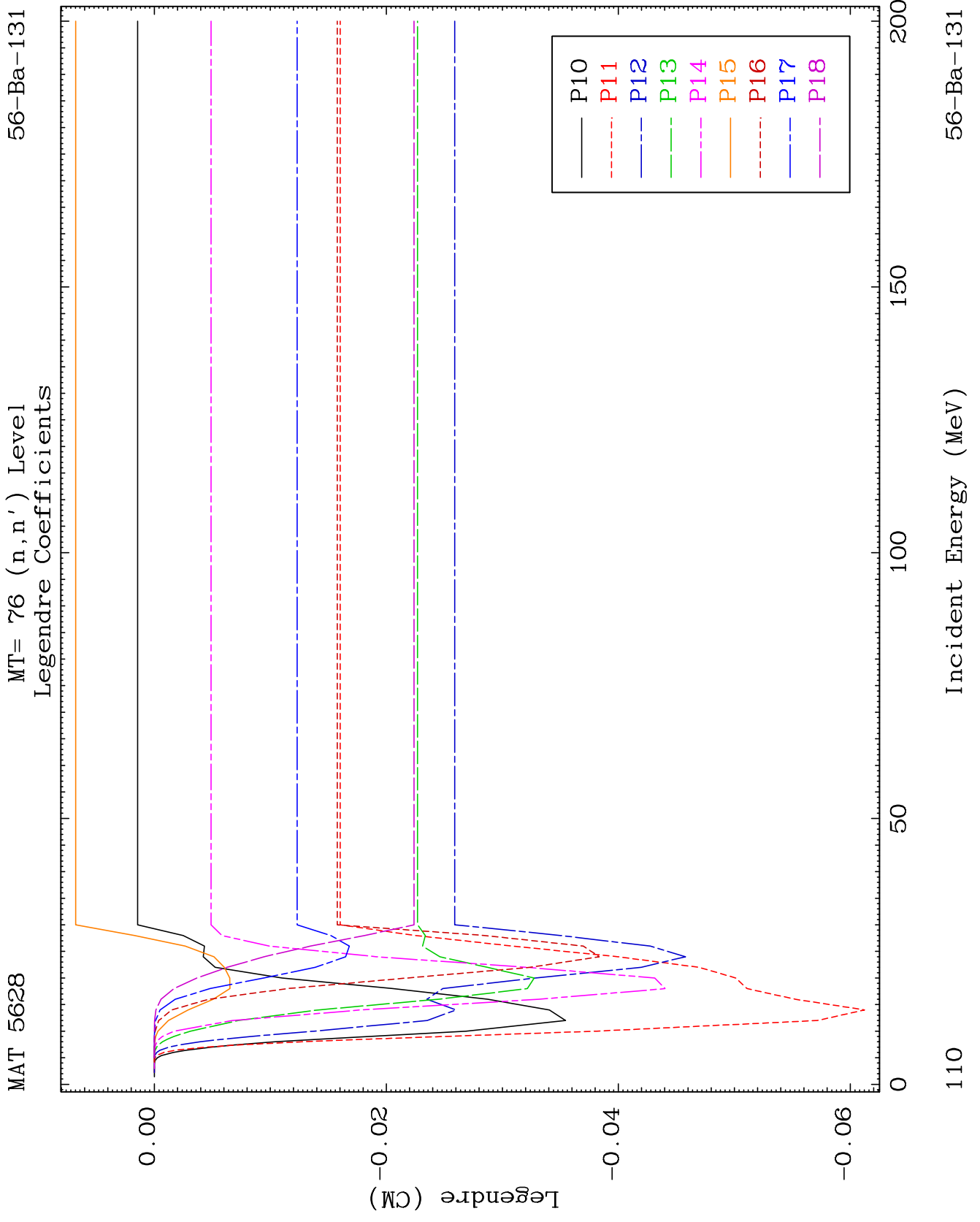
56-Ba-131

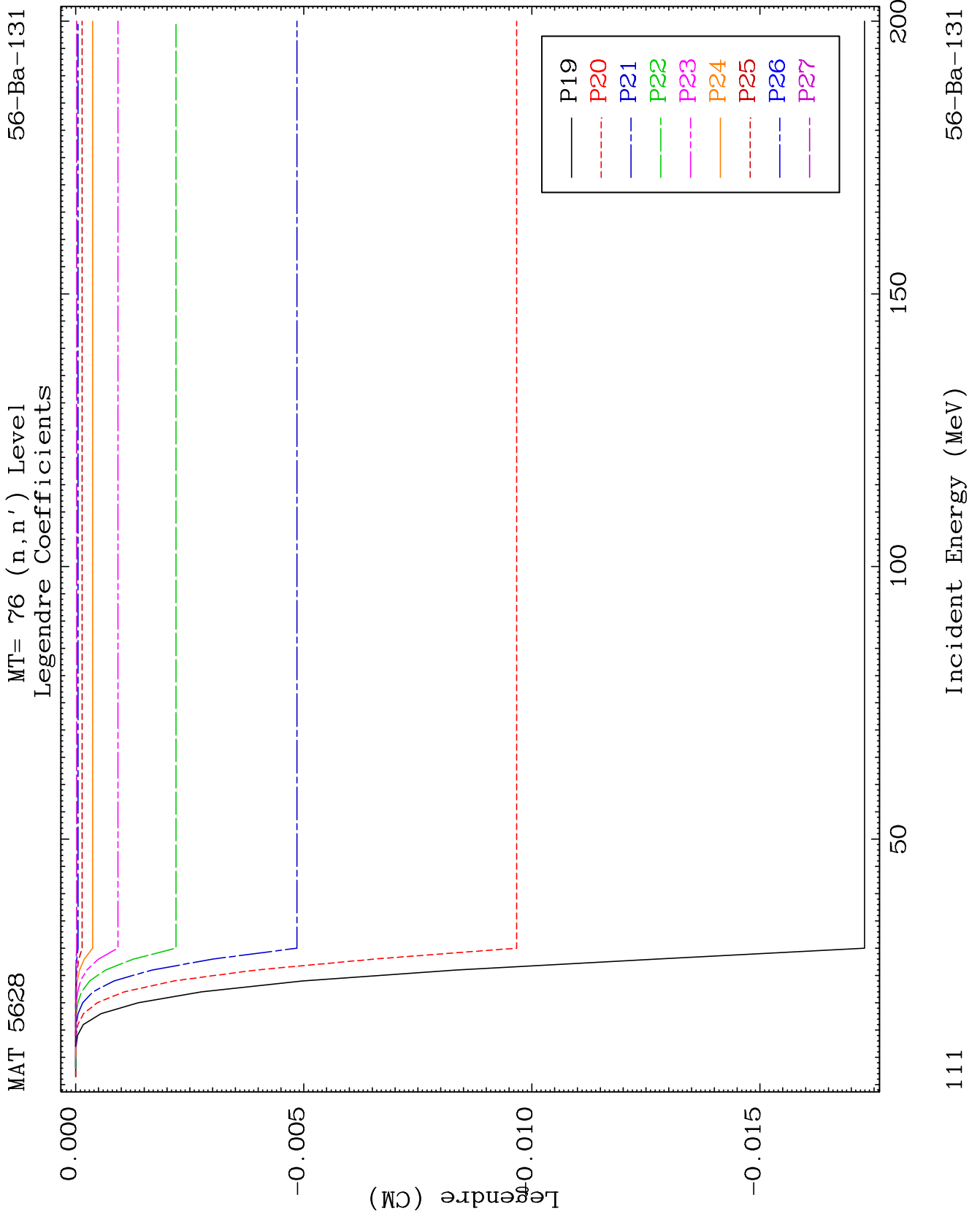


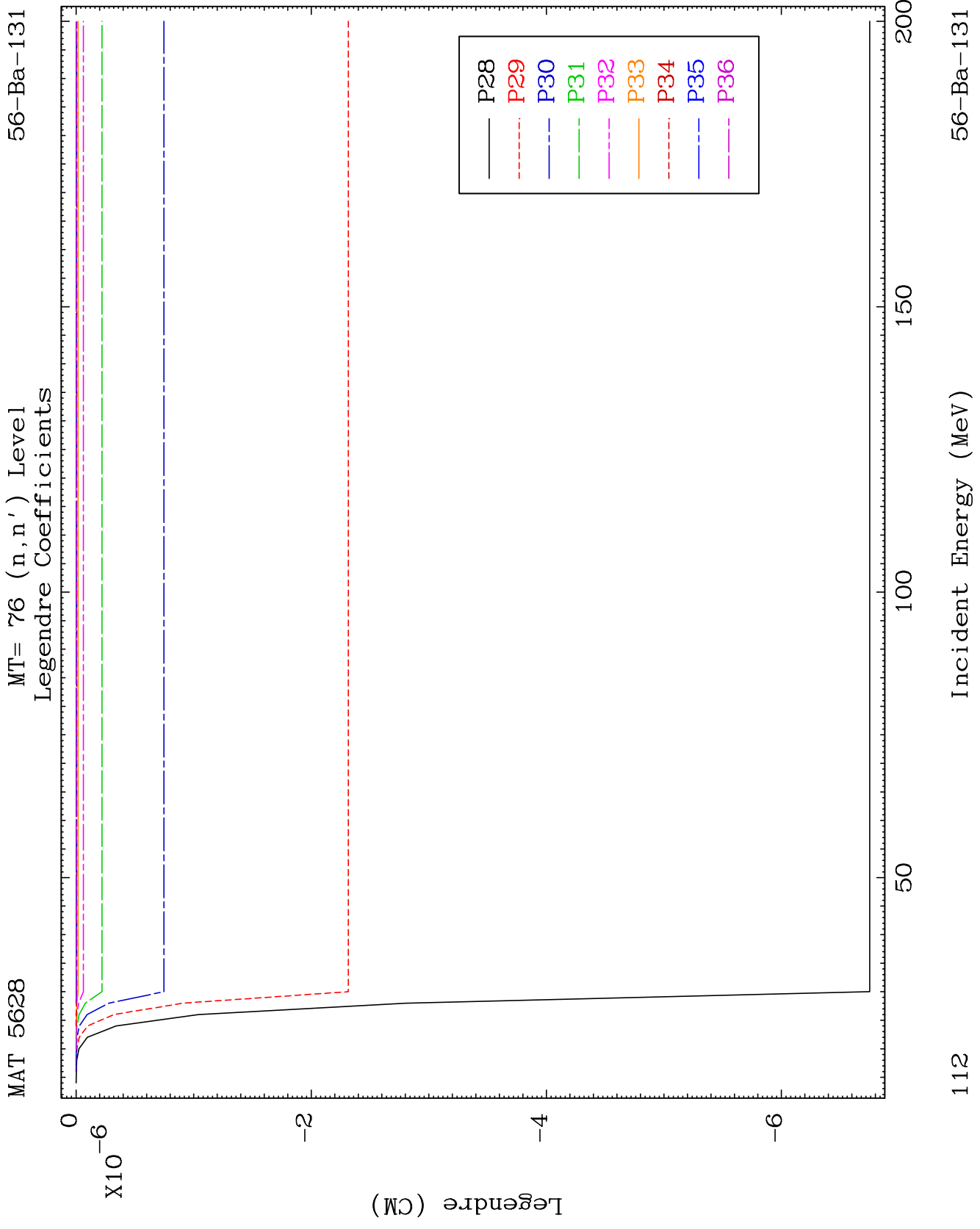
56-Ba-131

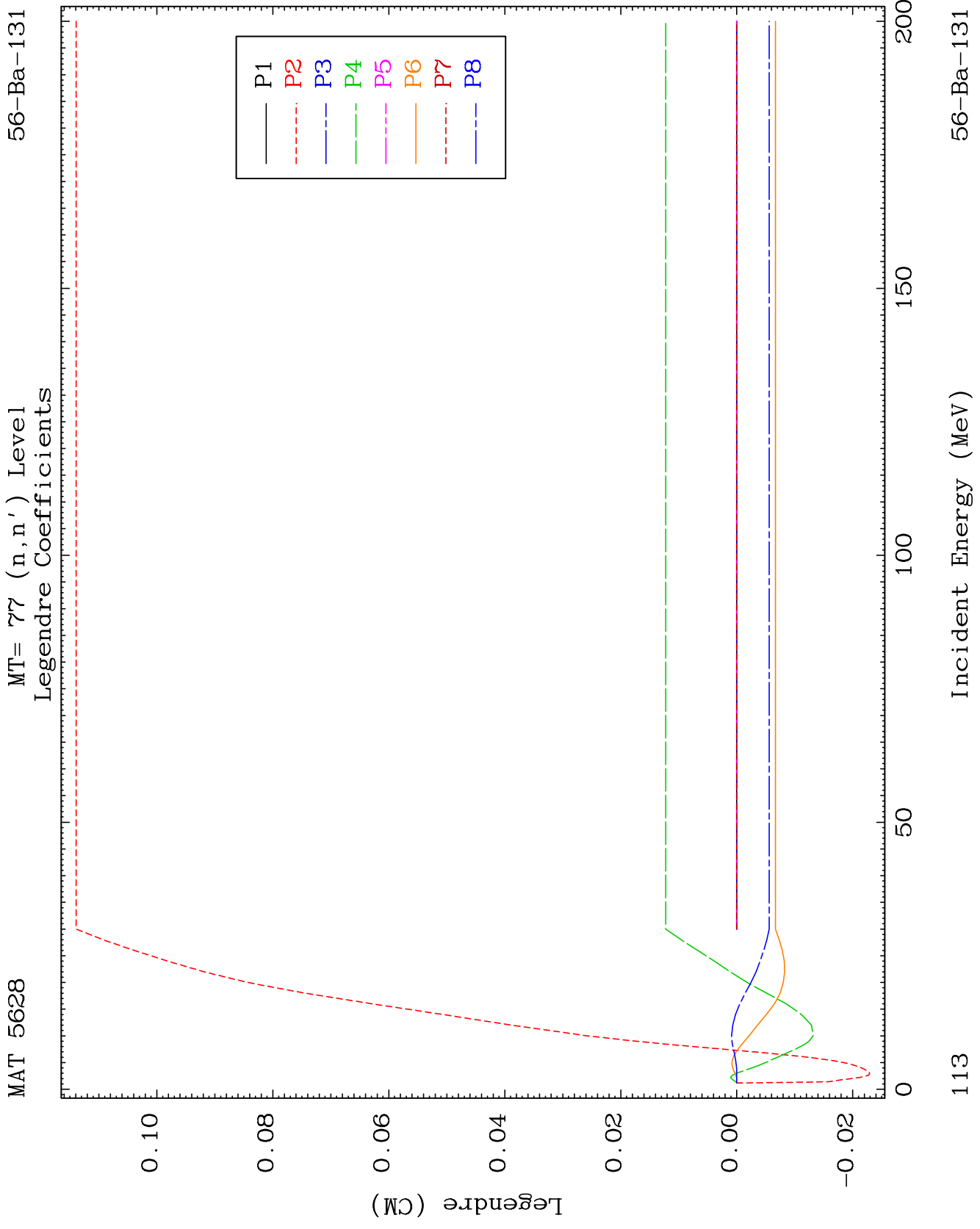
Incident Energy (MeV)

109









56-Ba-131

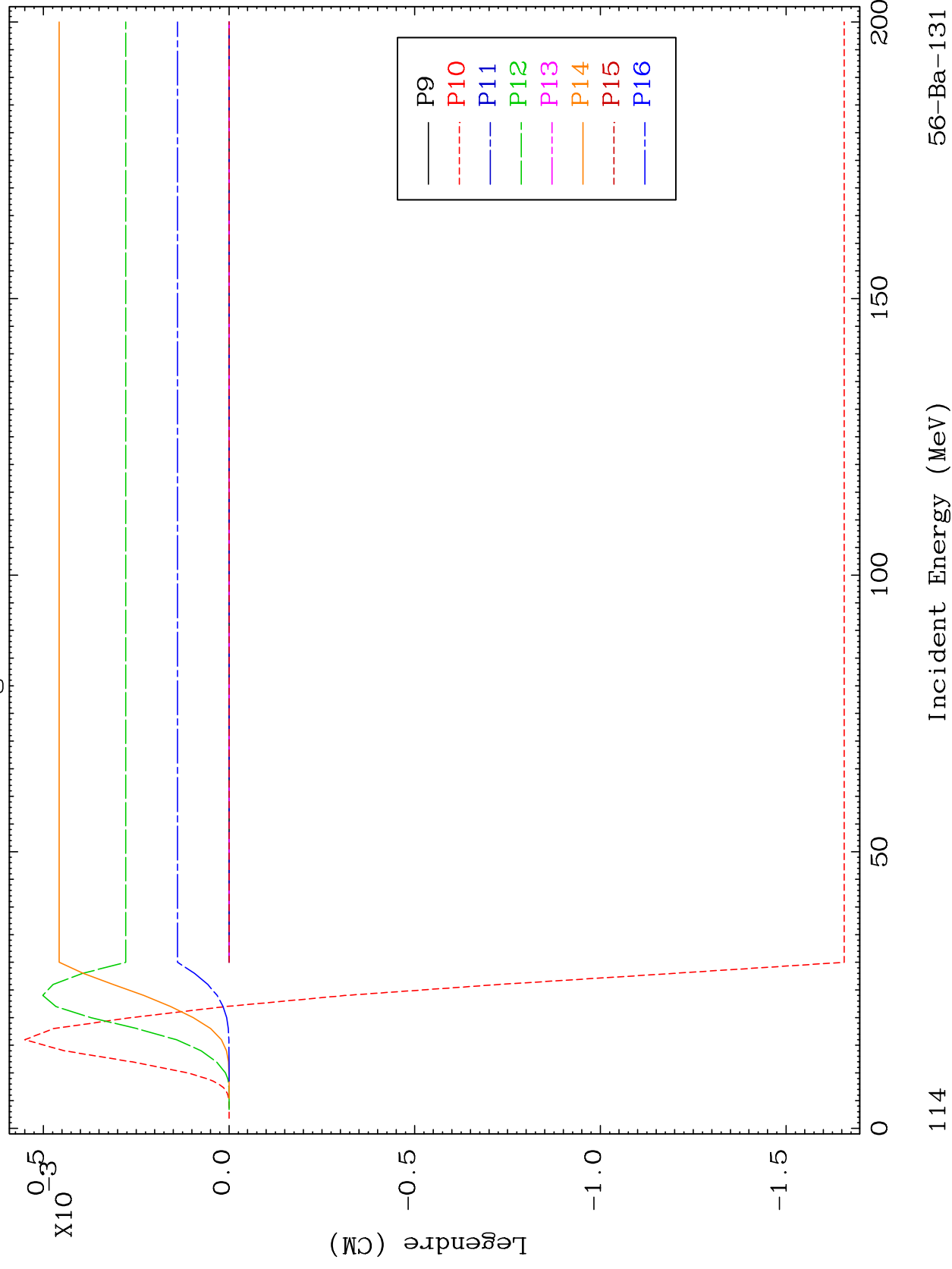
Incident Energy (MeV)

113

MAT 5628

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

56-Ba-131



56-Ba-131

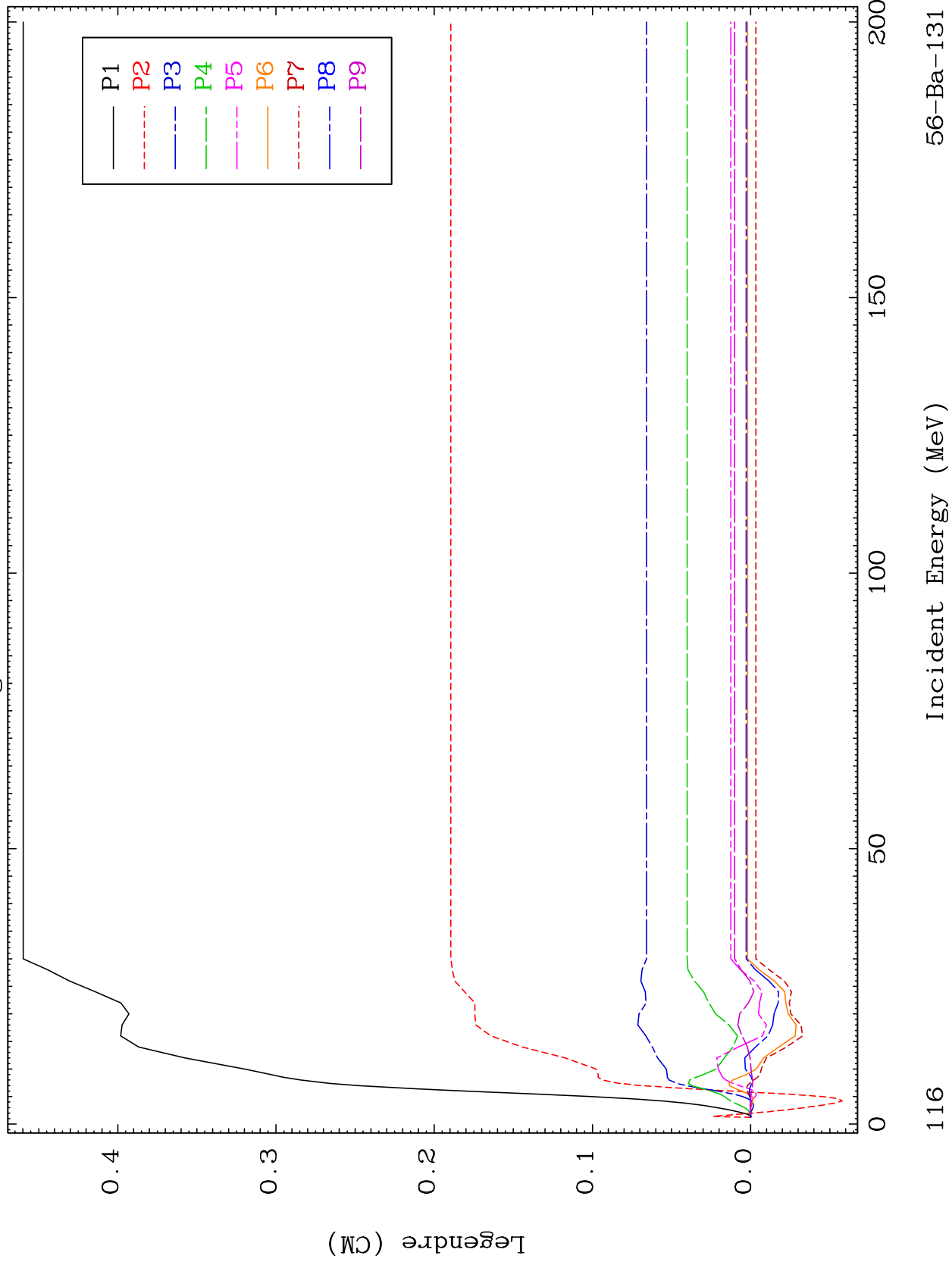
Incident Energy (MeV)

114

MAT 5628

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

56-Ba-131



56-Ba-131

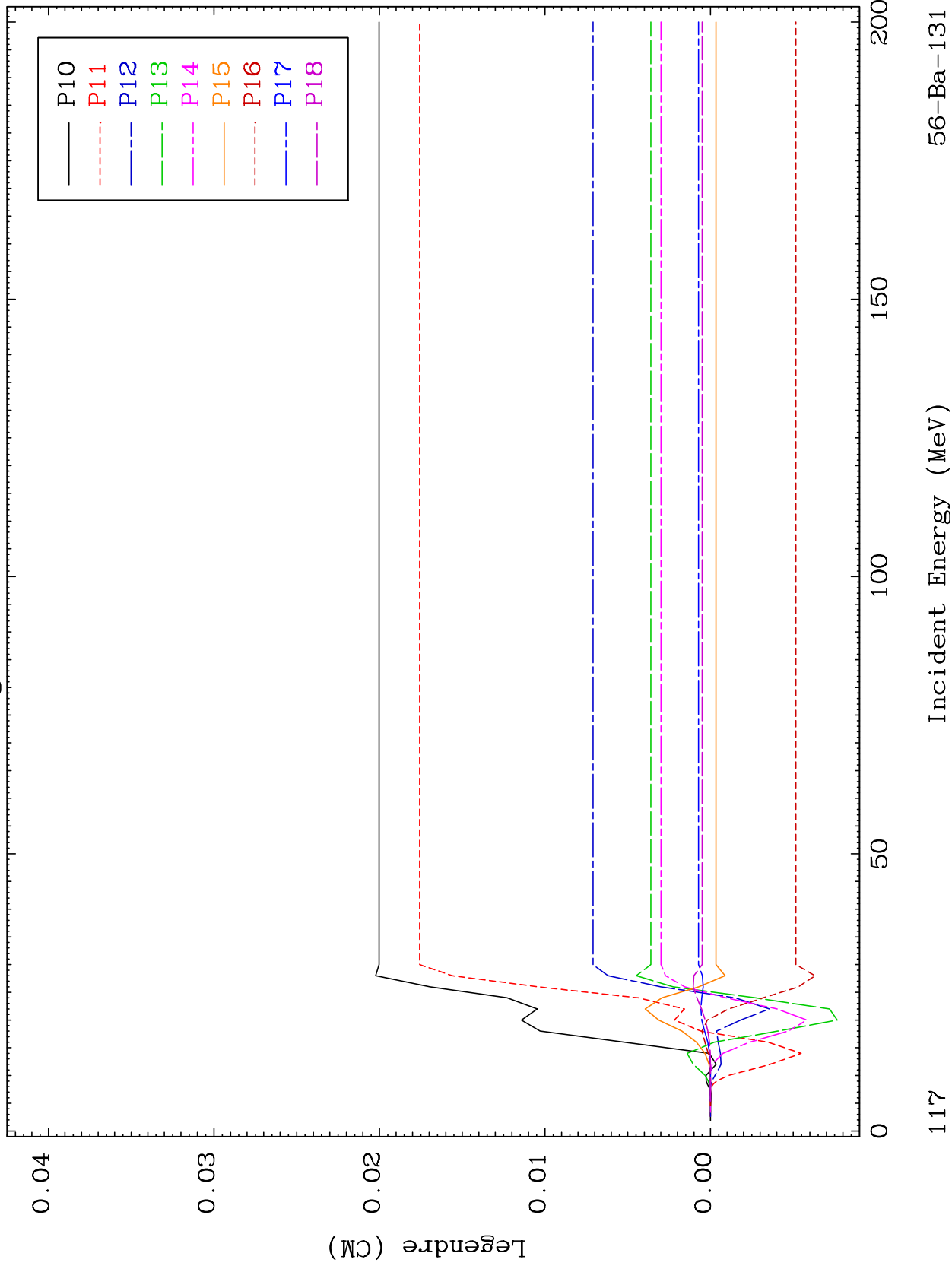
Incident Energy (MeV)

116

MAT 5628

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

56-Ba-131



117

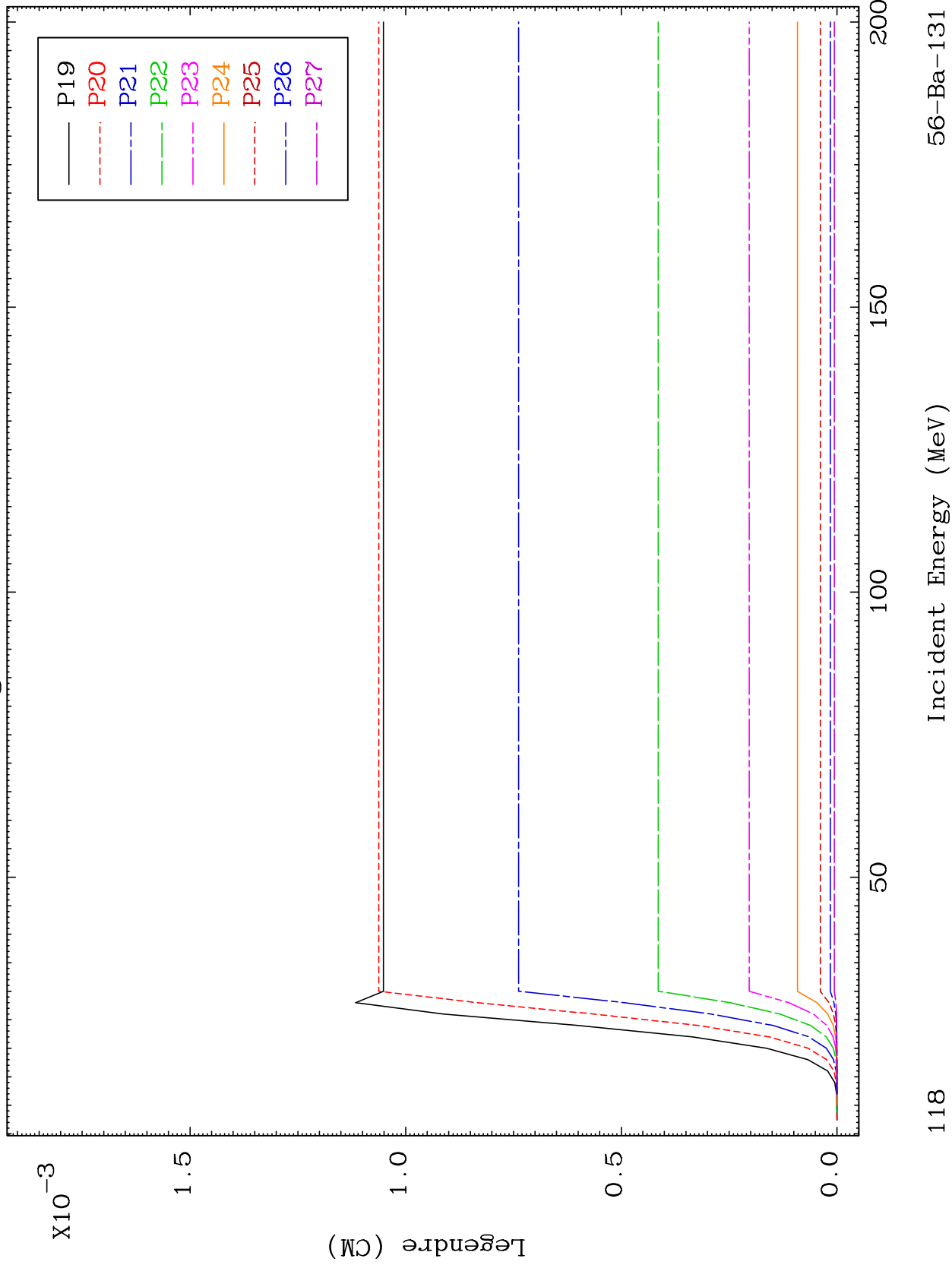
Incident Energy (MeV)

56-Ba-131

MAT 5628

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

56-Ba-131



118

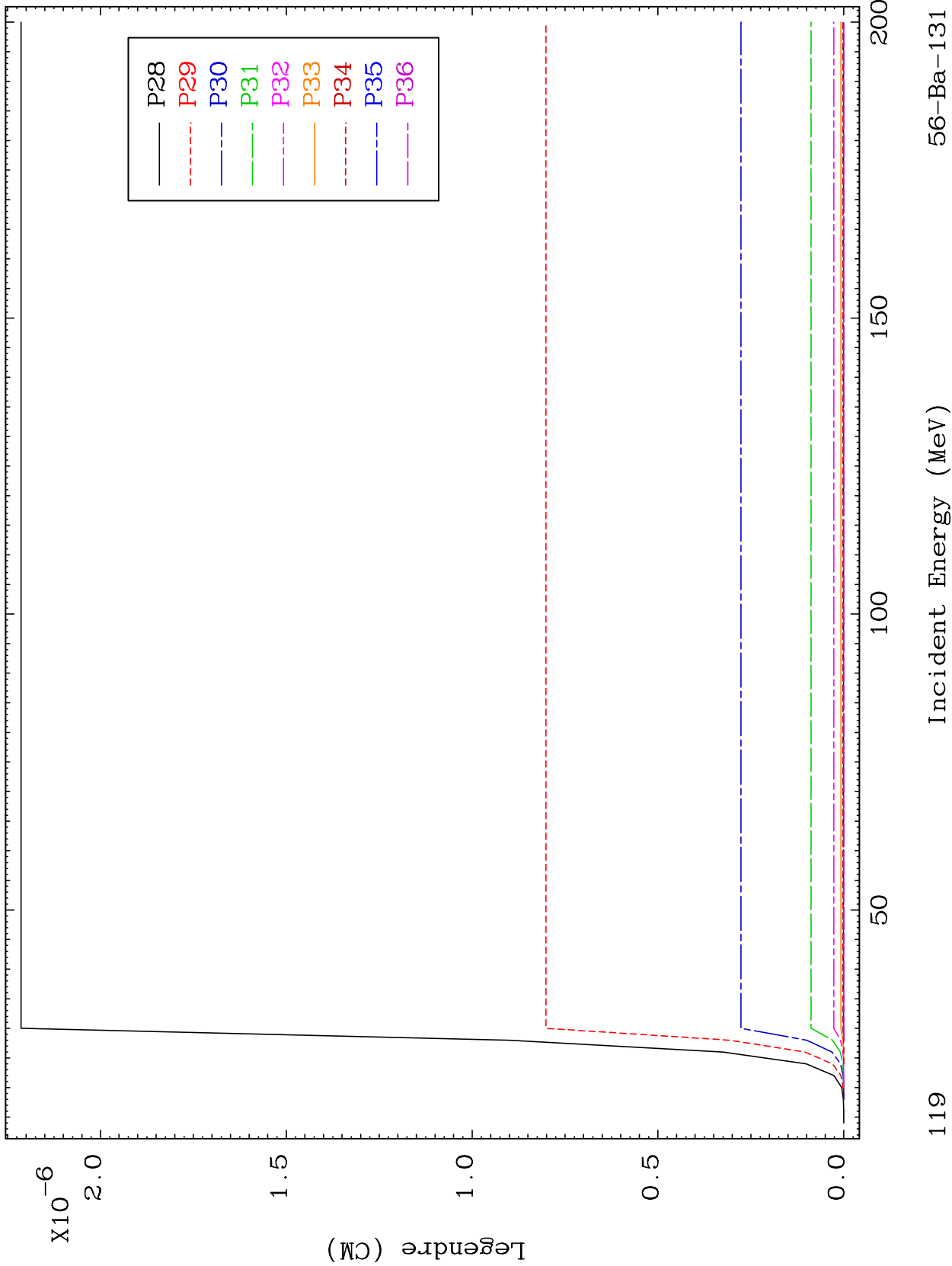
Incident Energy (MeV)

56-Ba-131

MAT 5628

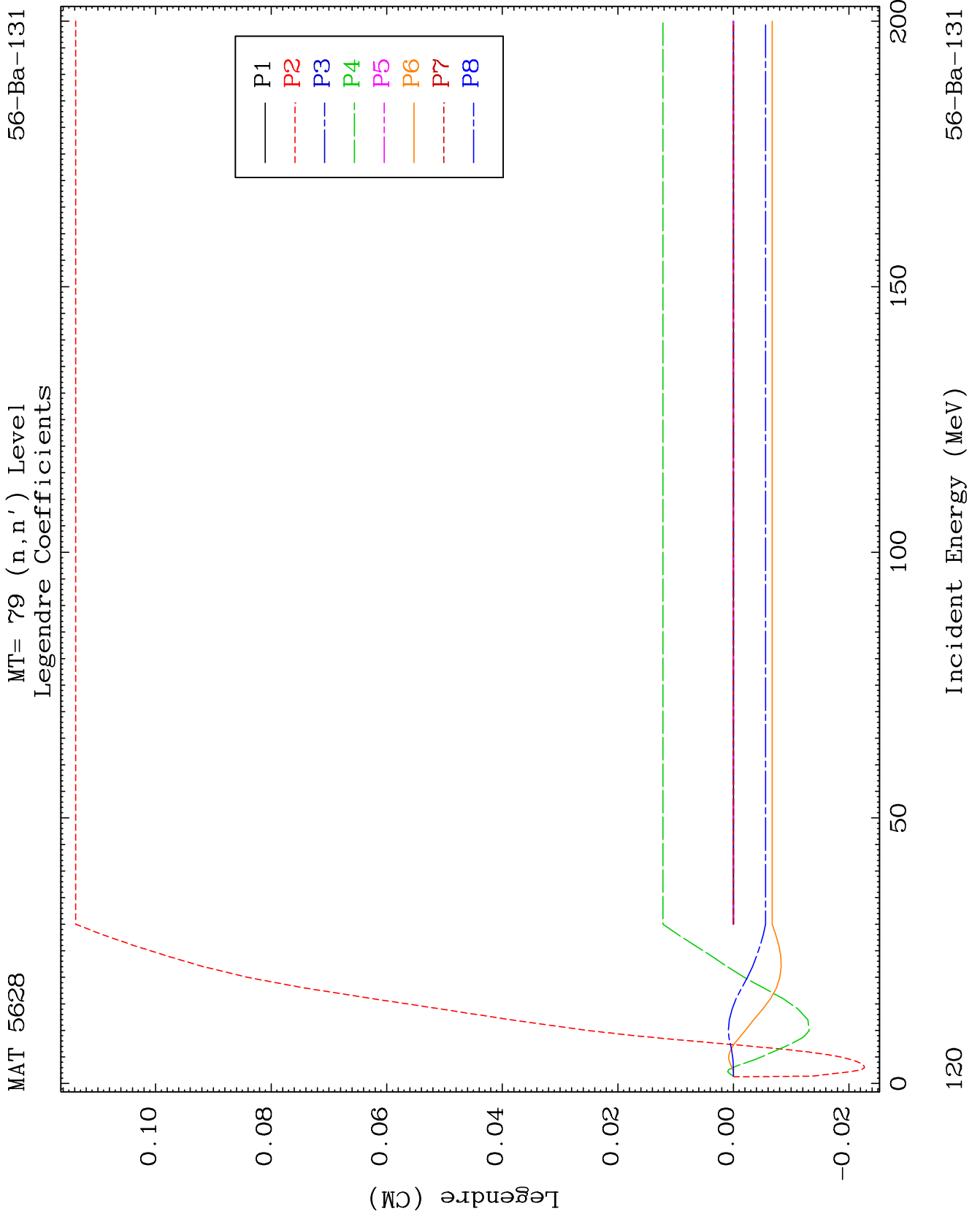
MT= 78 (n,n') Level
Legendre Coefficients

56-Ba-131



119

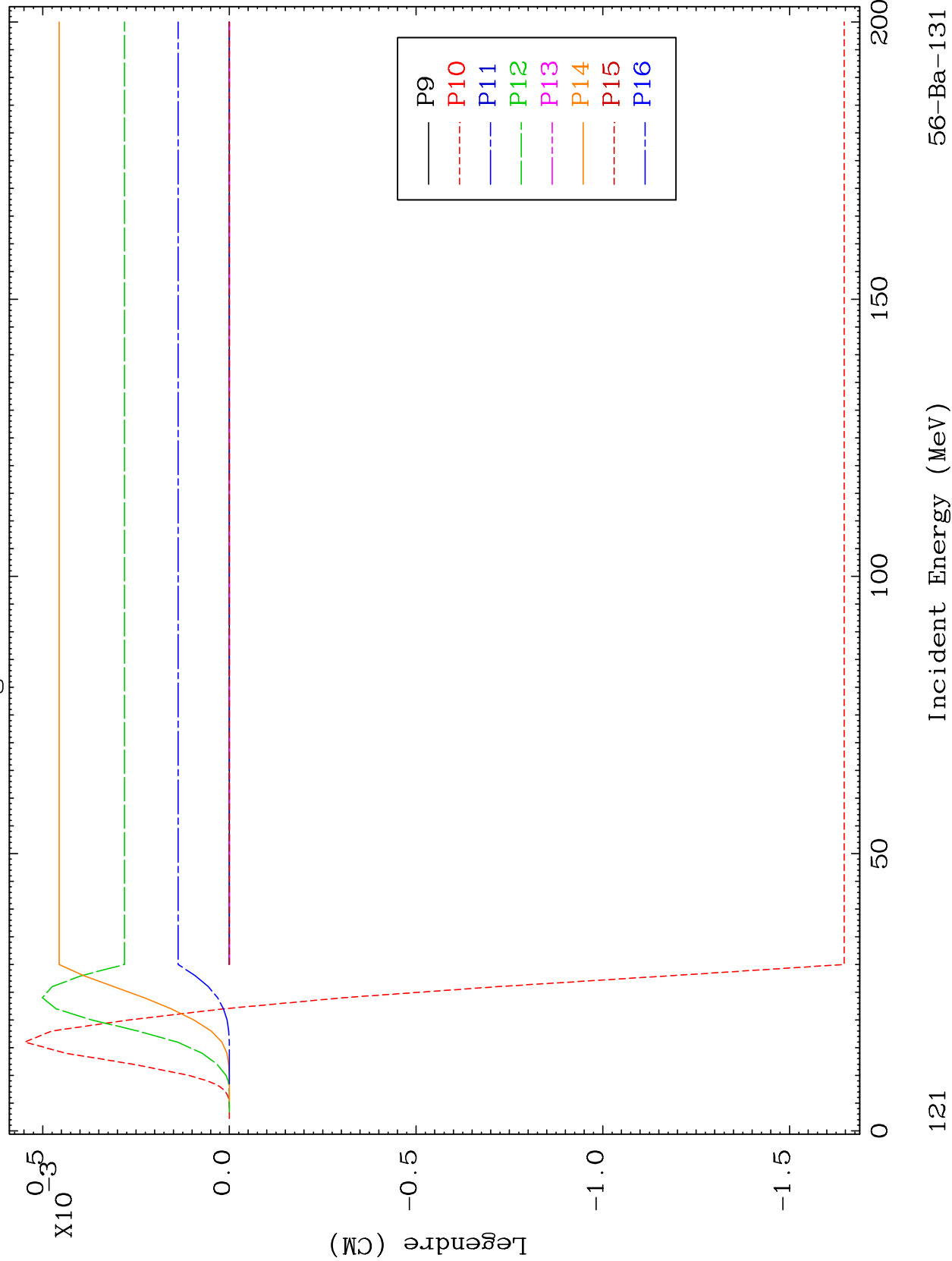
56-Ba-131



MAT 5628

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

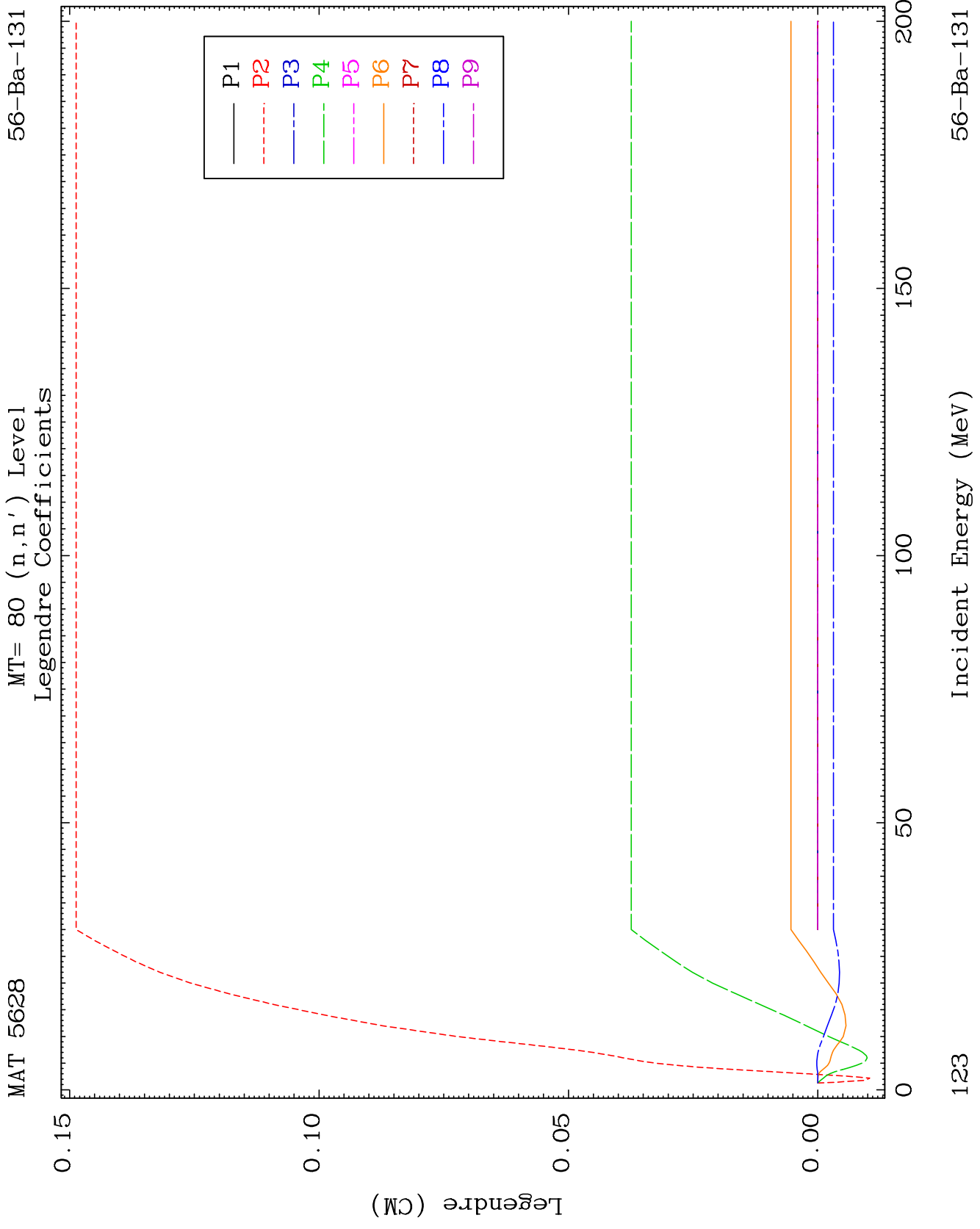
56-Ba-131



121

Incident Energy (MeV)

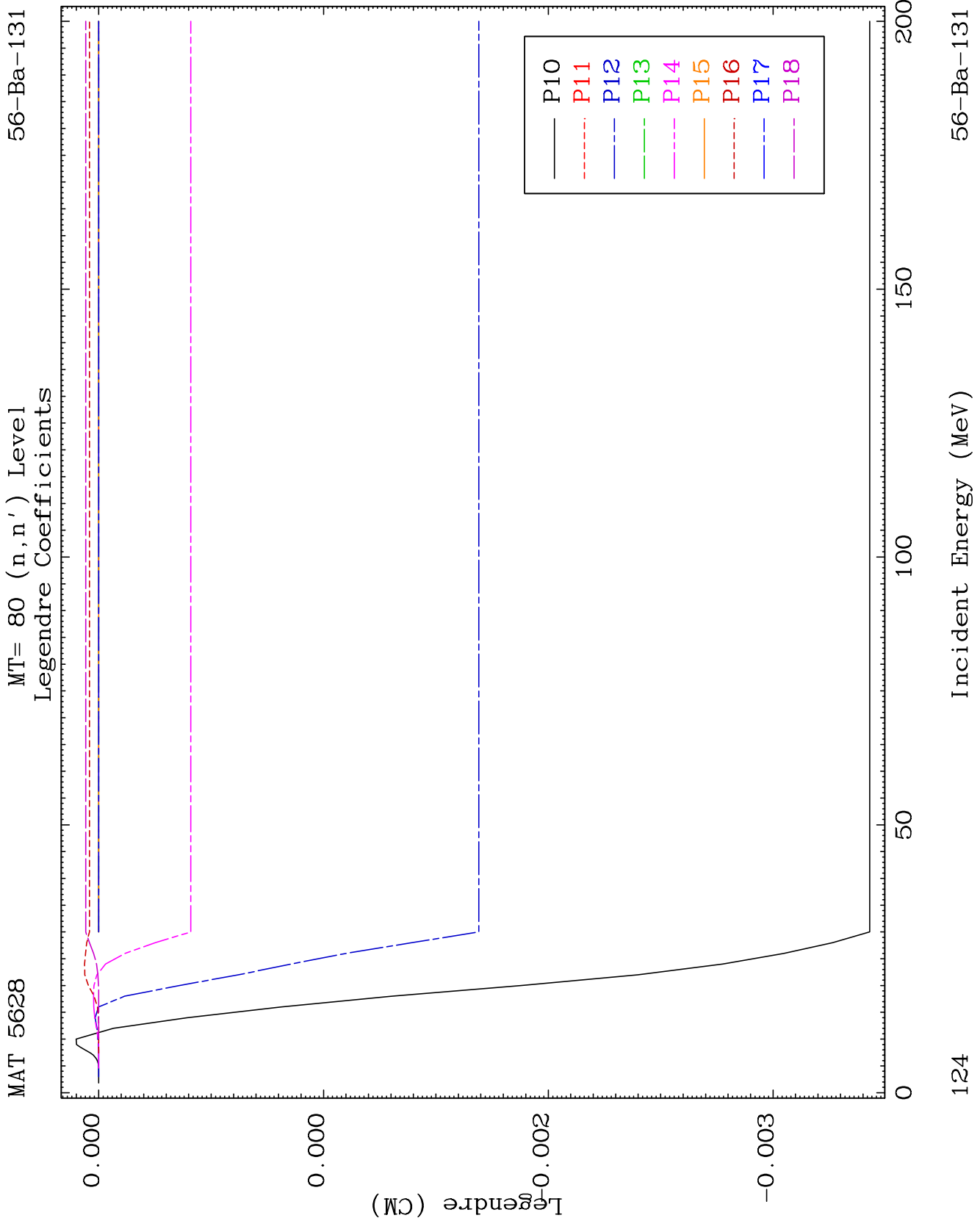
56-Ba-131



56-Ba-131

Incident Energy (MeV)

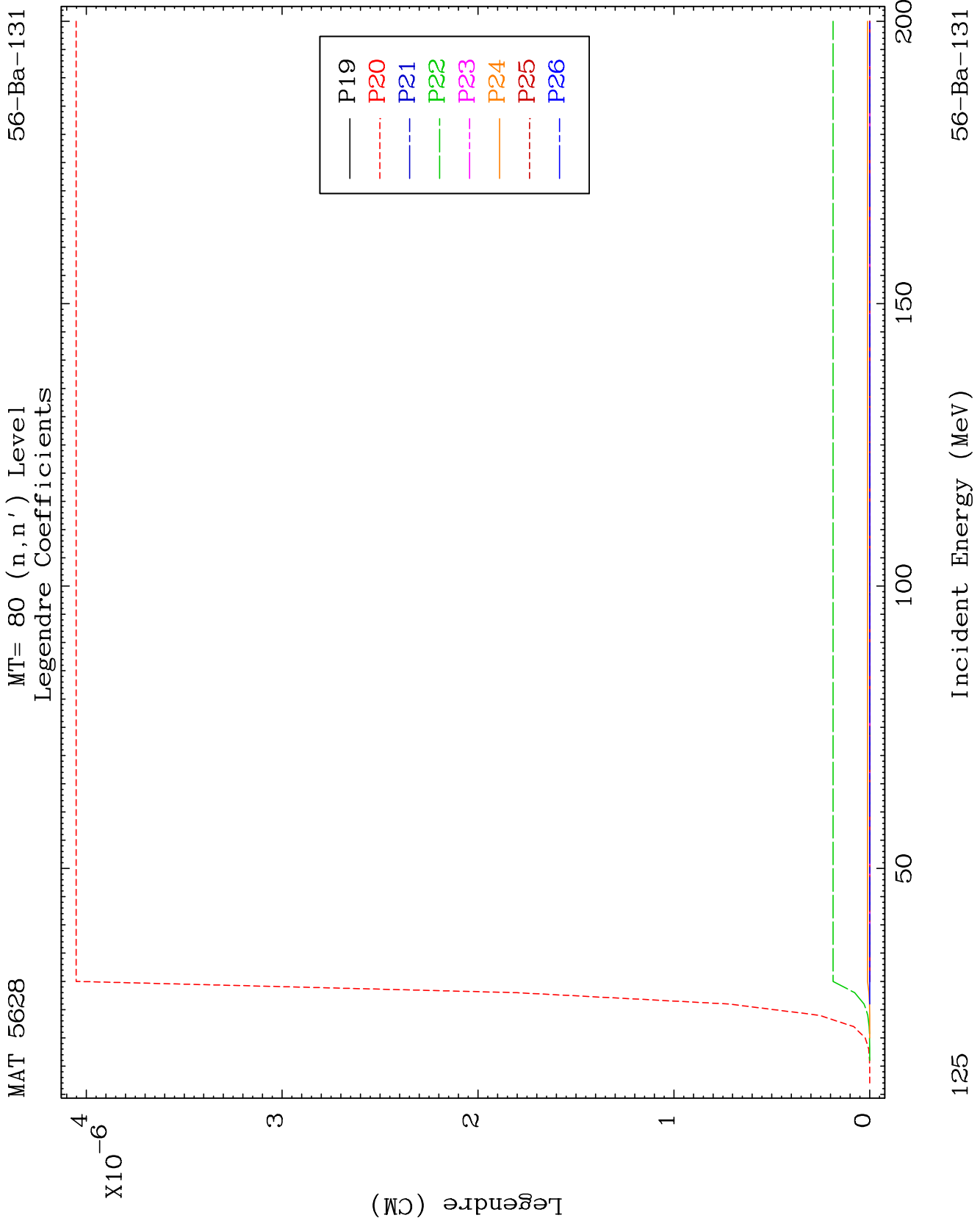
123



56-Ba-131

Incident Energy (MeV)

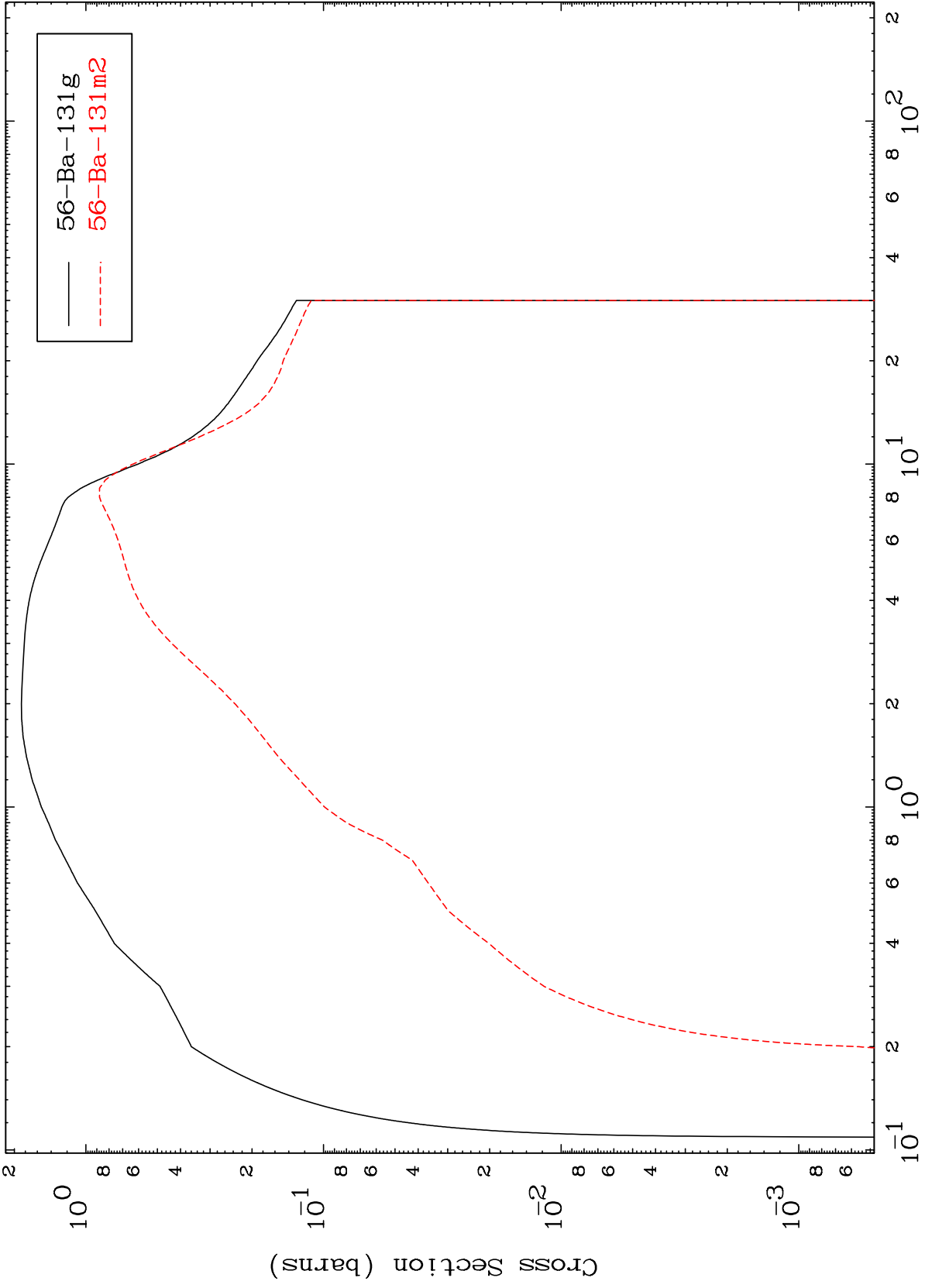
124



MAT 5628

56-Ba-131

Inelastic
Radionuclide Production Cross Section



56-Ba-131

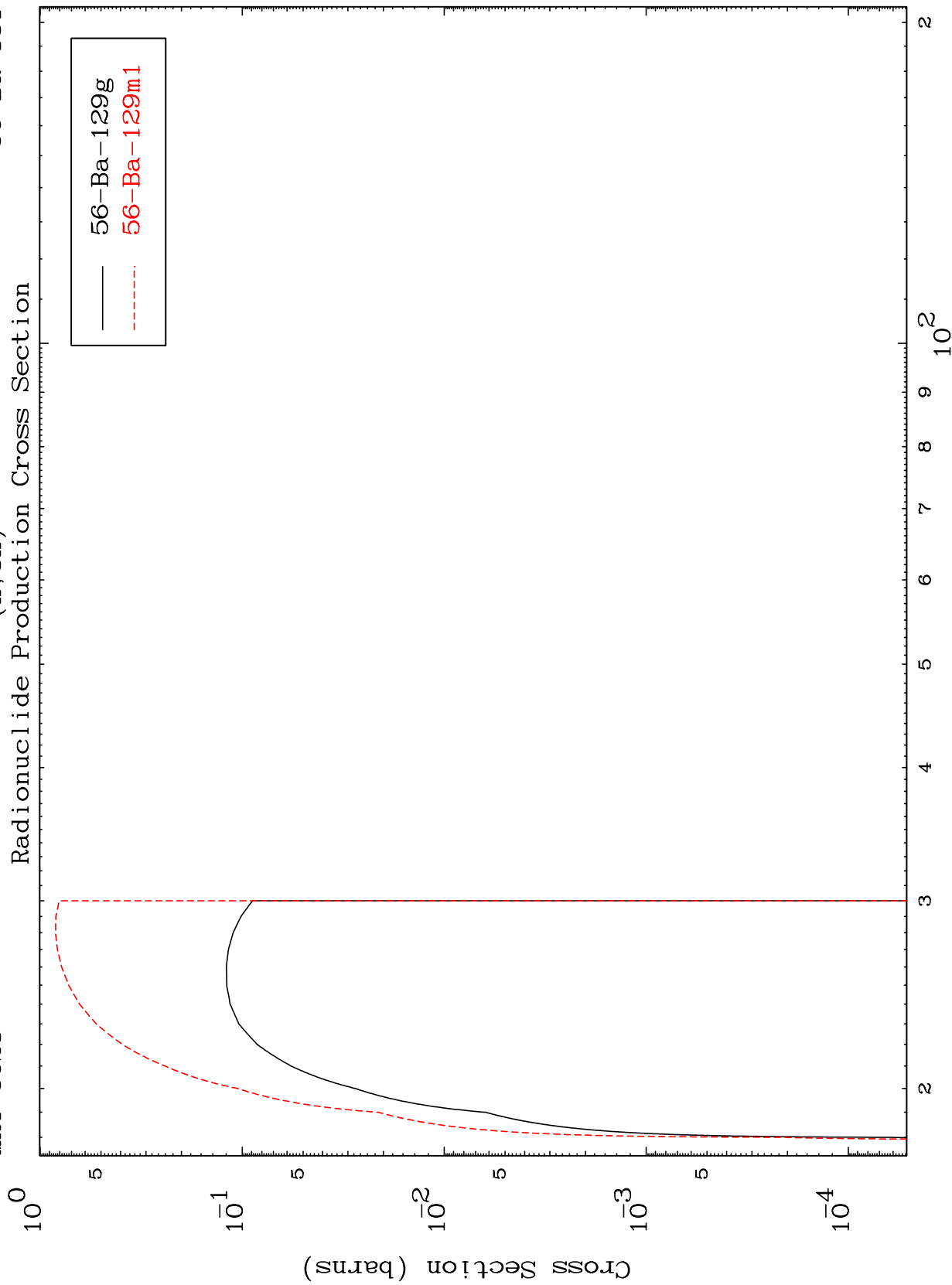
Incident Energy (MeV)

126

MAT 5628

56-Ba-131

(n,3n)
Radionuclide Production Cross Section



56-Ba-129g
56-Ba-129m1

56-Ba-131

Incident Energy (MeV)

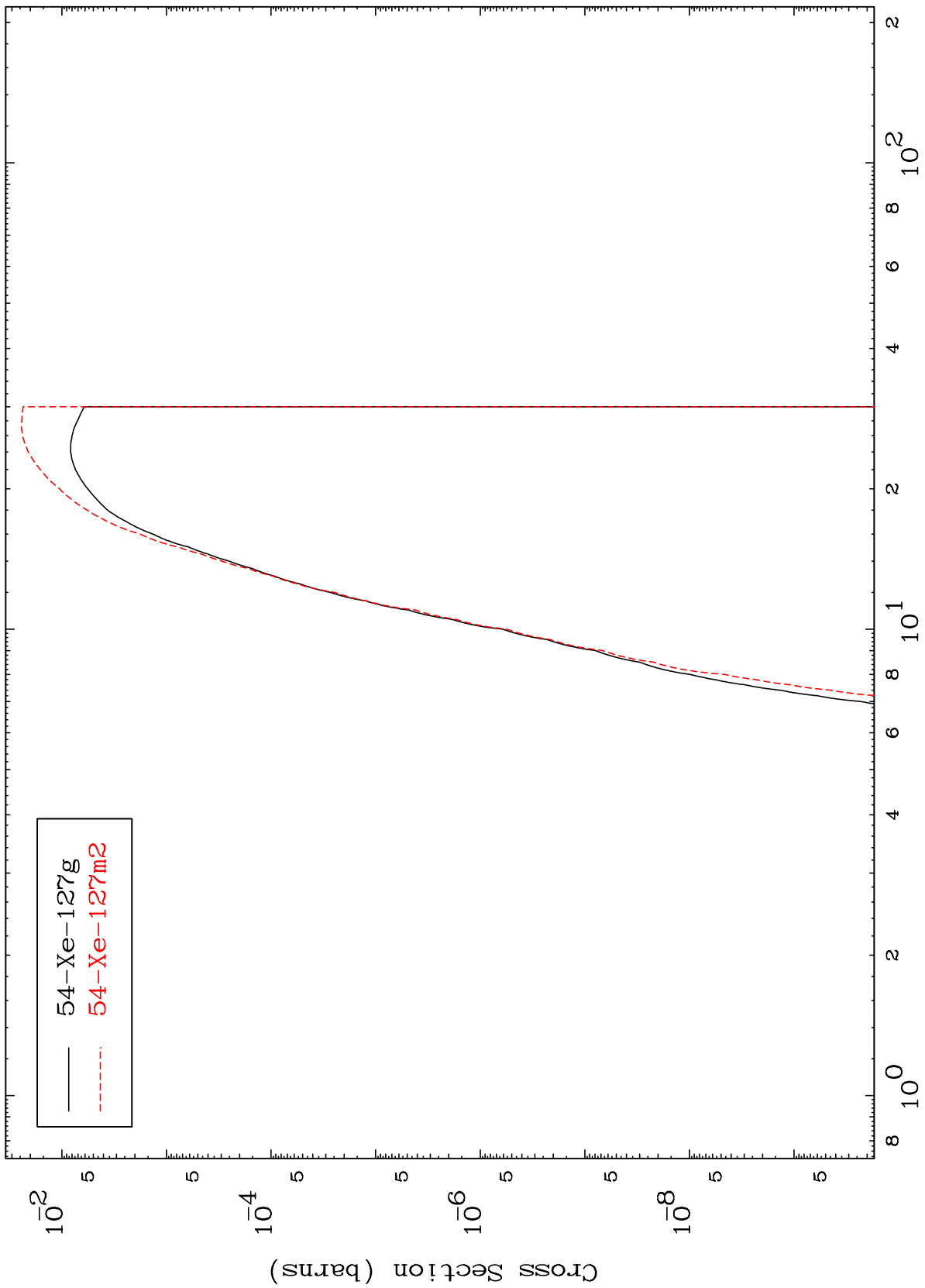
127

MAT 5628

(n,n') α

56-Ba-131

Radionuclide Production Cross Section



54-Xe-127g
54-Xe-127m2

128

Incident Energy (MeV)

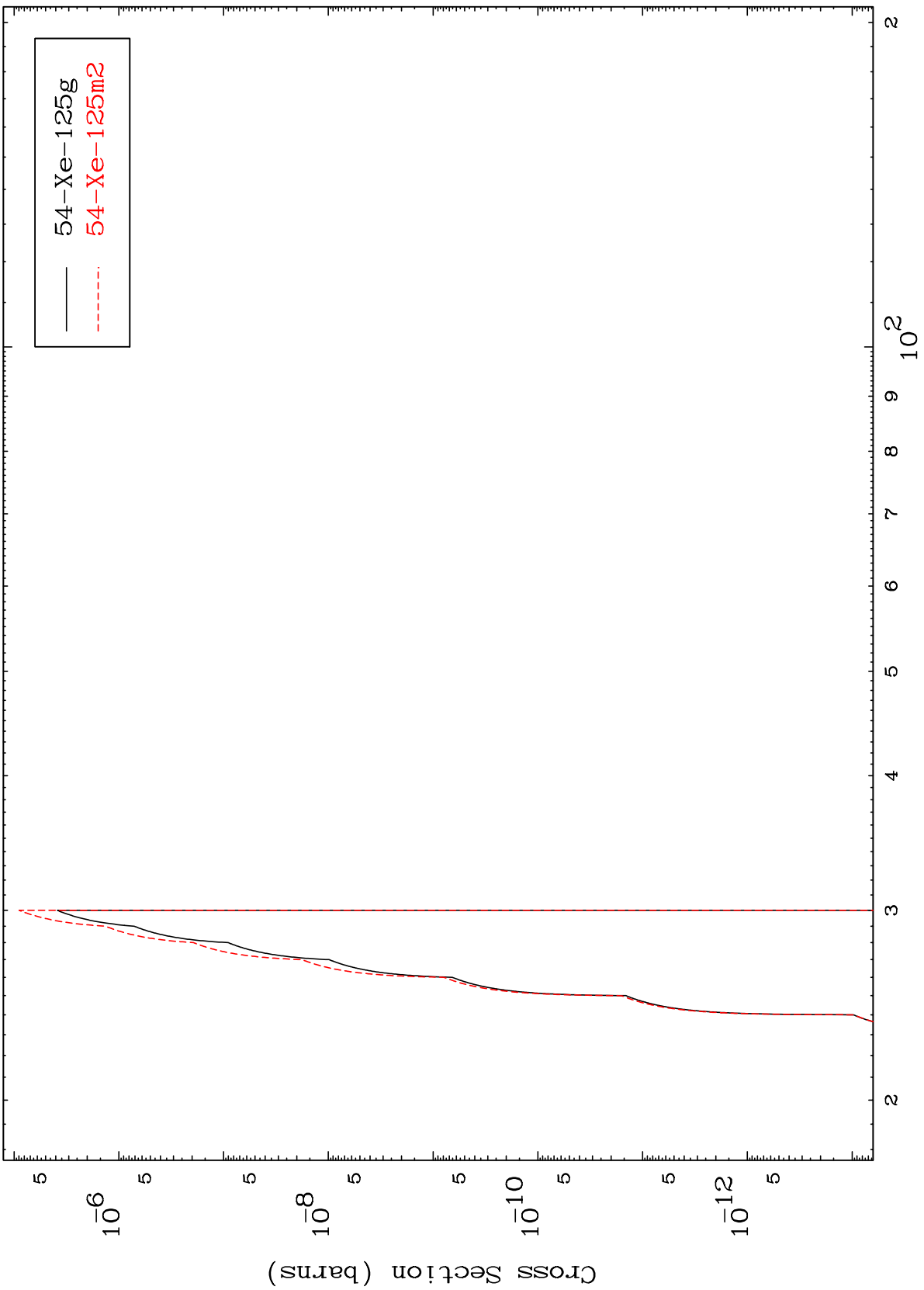
56-Ba-131

MAT 5628

(n,3n) α

56-Ba-131

Radionuclide Production Cross Section



129

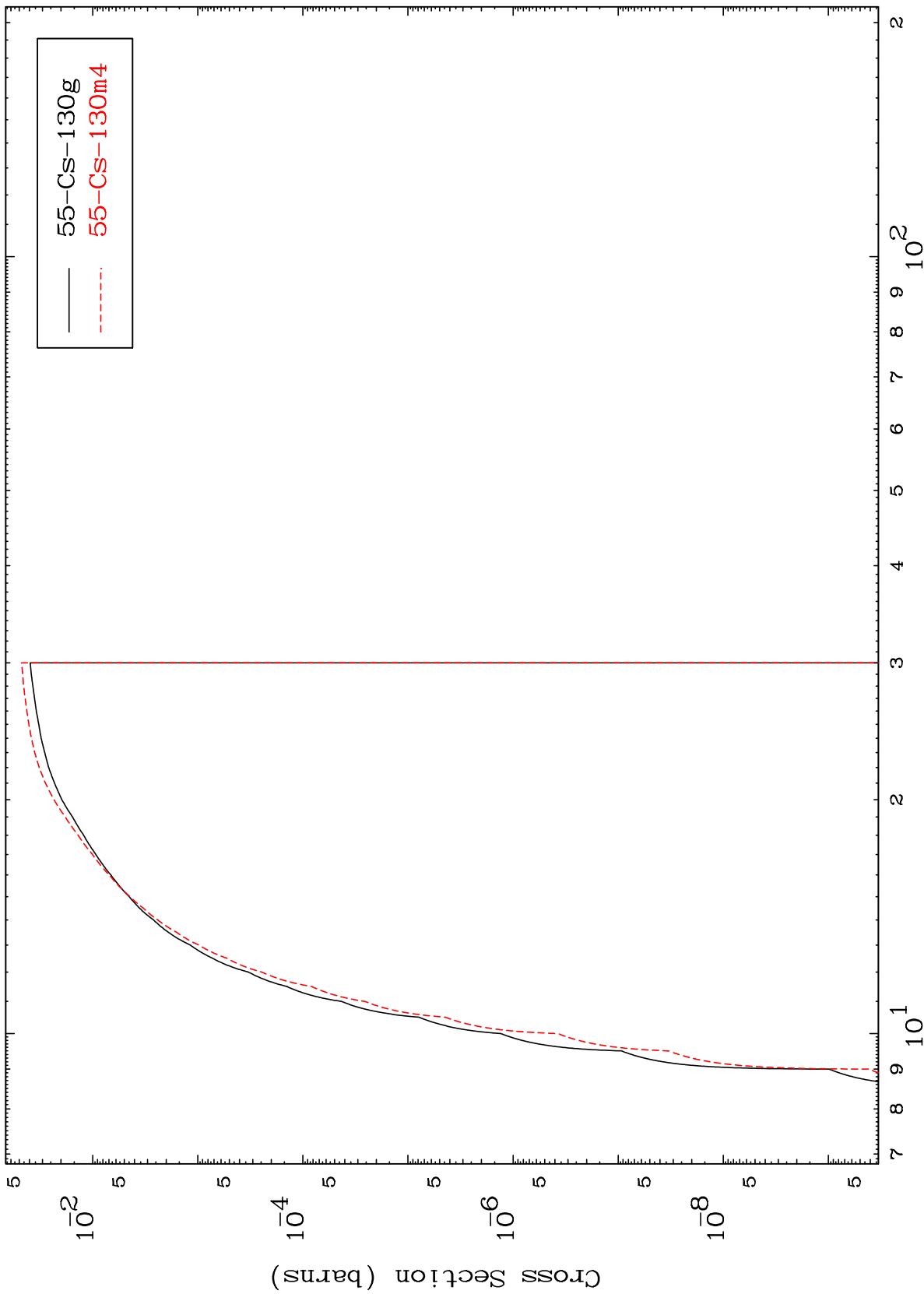
Incident Energy (MeV)

56-Ba-131

MAT 5628

56-Ba-131

(n,n') p
Radionuclide Production Cross Section



56-Ba-131

Incident Energy (MeV)

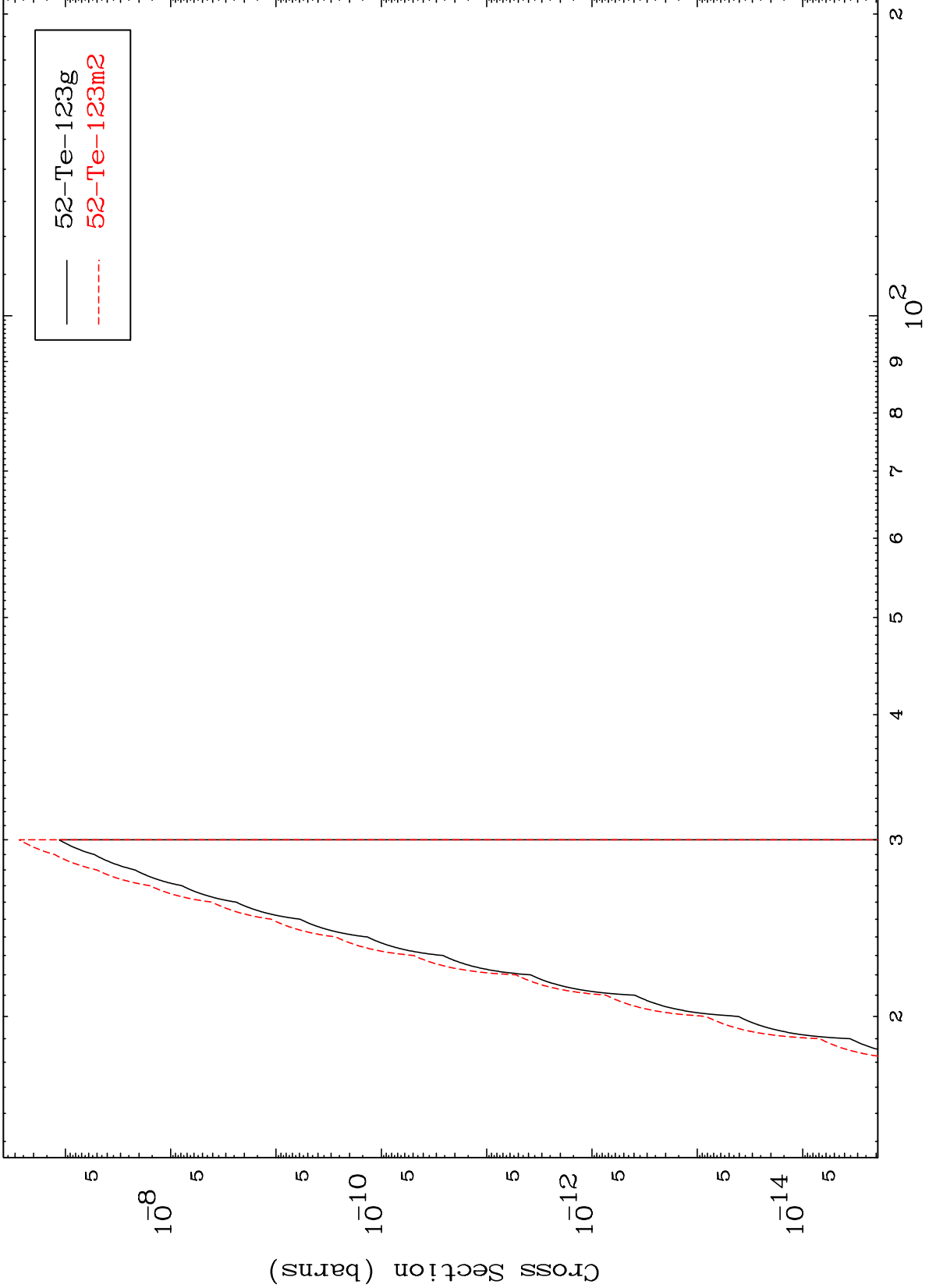
130

MAT 5628

(n,n') 2 α

56-Ba-131

Radionuclide Production Cross Section

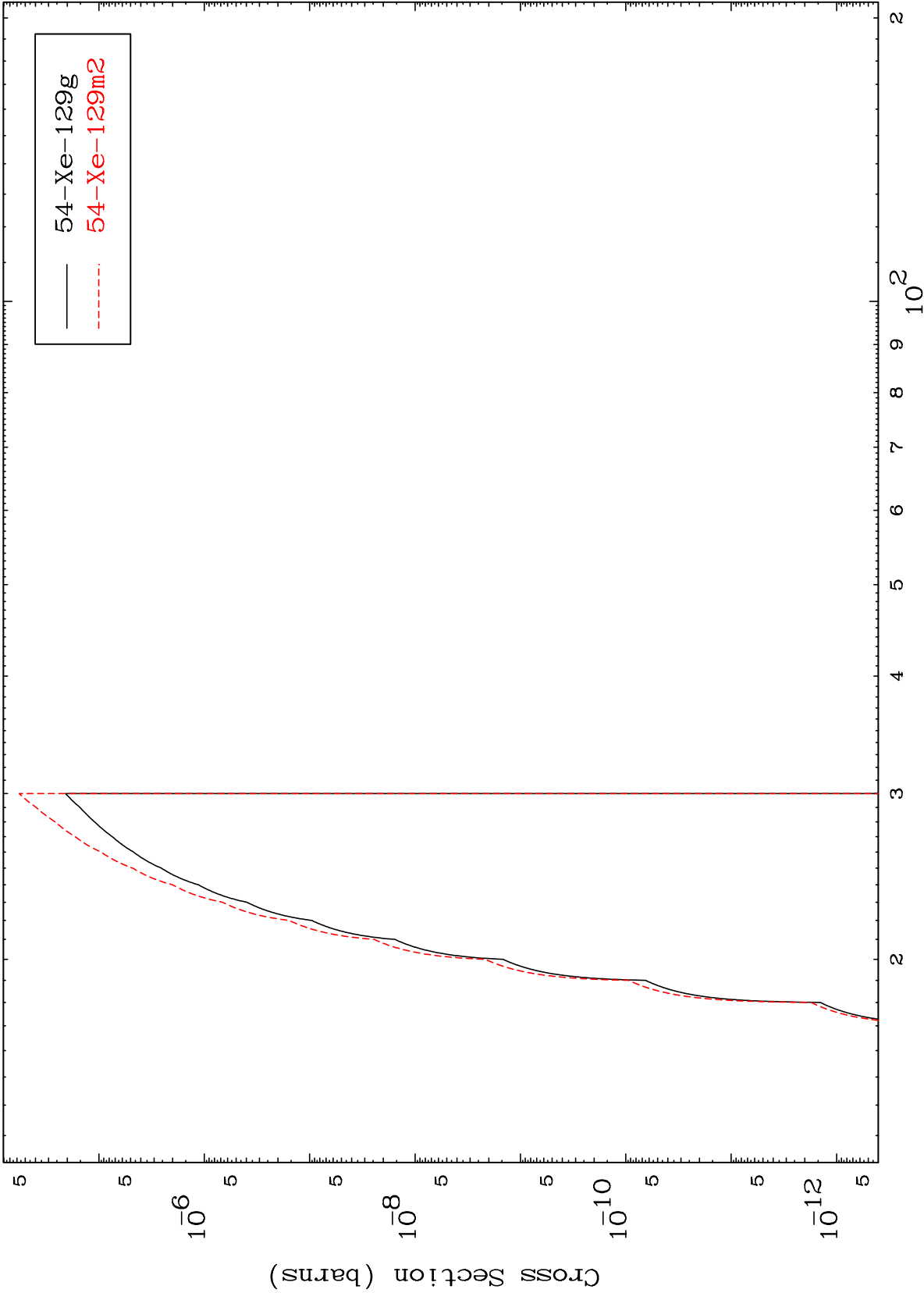


131

Incident Energy (MeV)

56-Ba-131

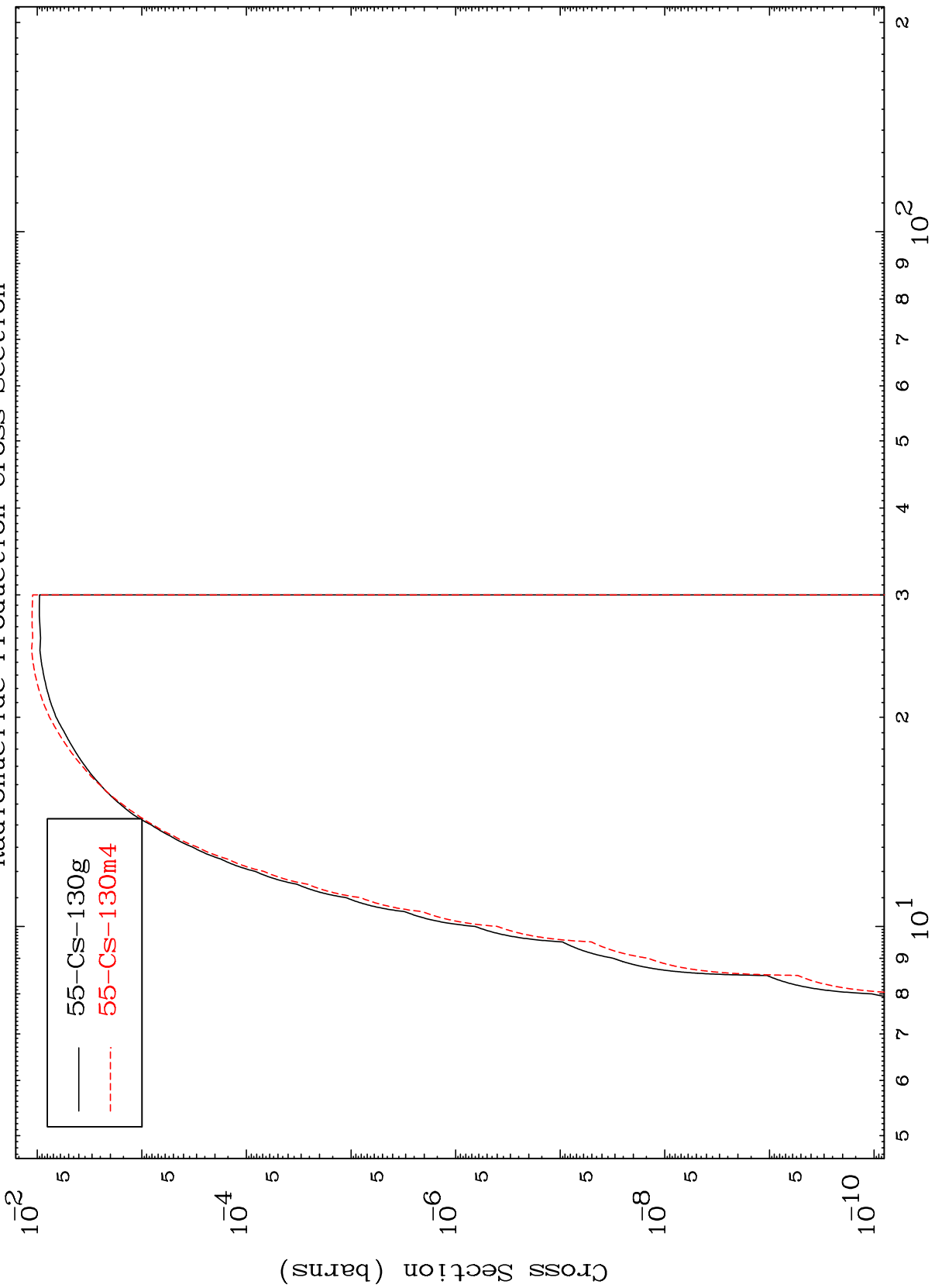
(n,2n) p
Radionuclide Production Cross Section



MAT 5628

56-Ba-131

(n,d)
Radionuclide Production Cross Section



55-Cs-130g
55-Cs-130m4

56-Ba-131

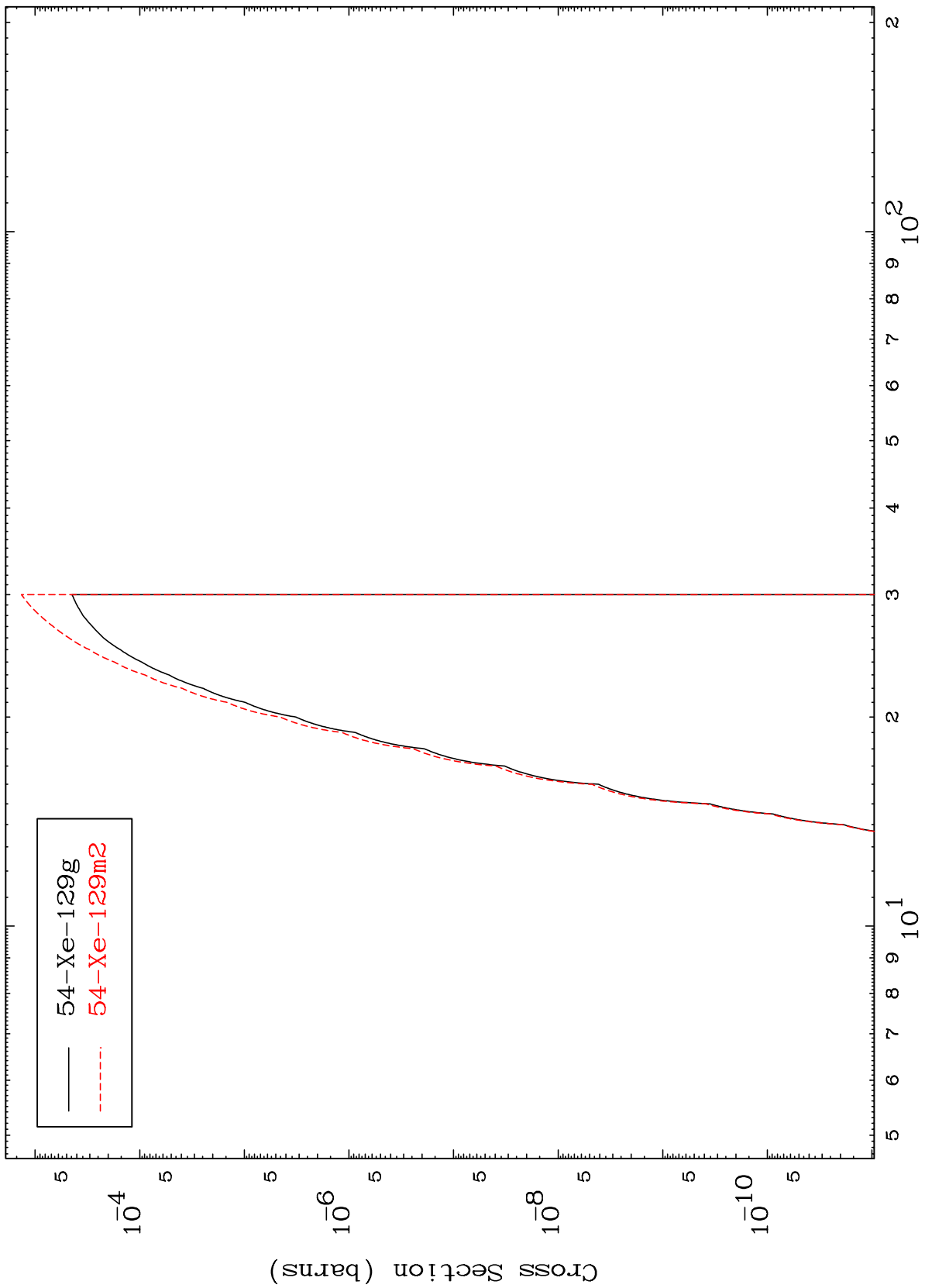
Incident Energy (MeV)

133

MAT 5628

56-Ba-131

(n,He-3)
Radionuclide Production Cross Section



56-Ba-131

Incident Energy (MeV)

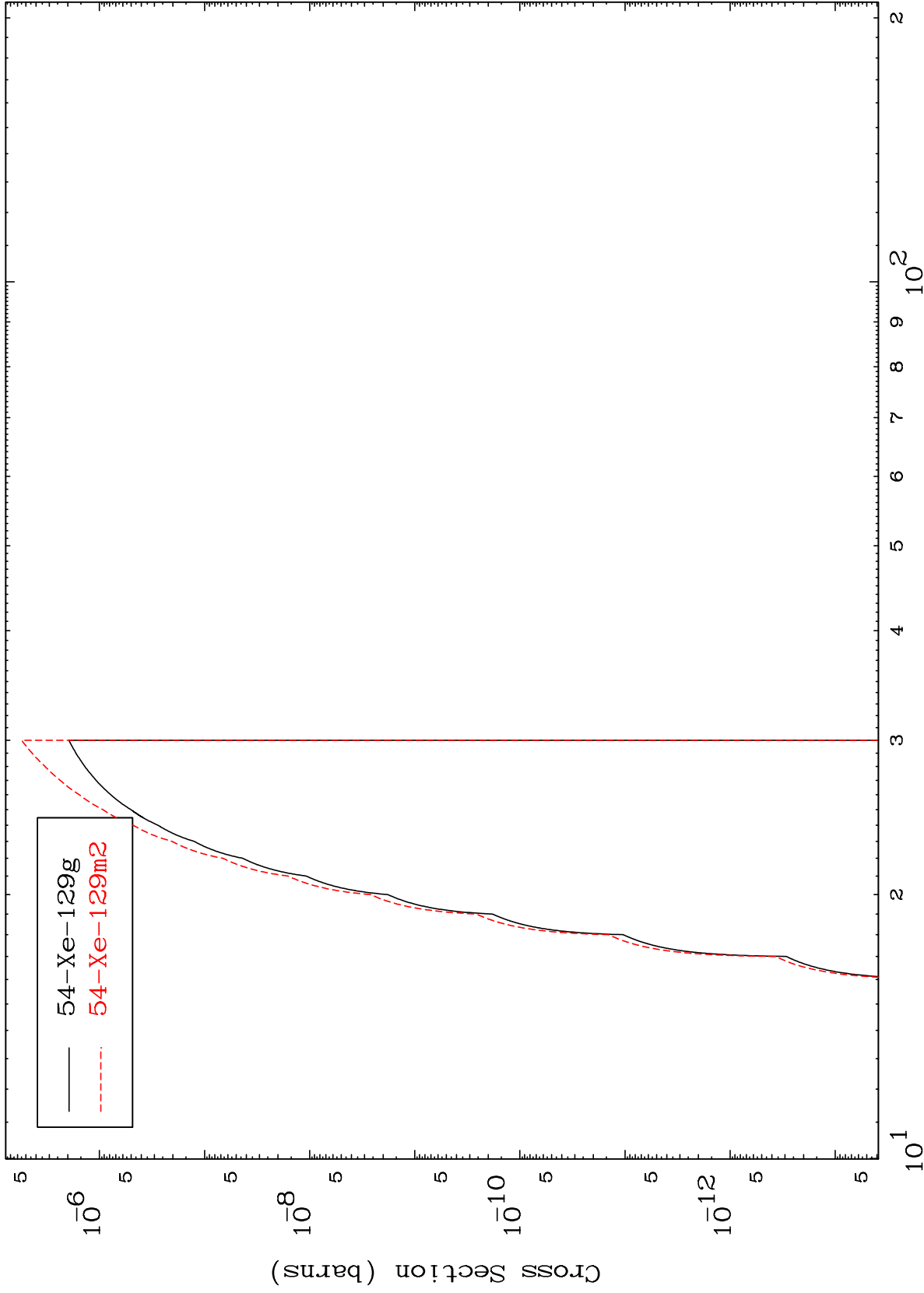
134

MAT 5628

(n,p) d

56-Ba-131

Radionuclide Production Cross Section



135

Incident Energy (MeV)

56-Ba-131