

Program EVALPLOT  
(Version 2018-1)

by

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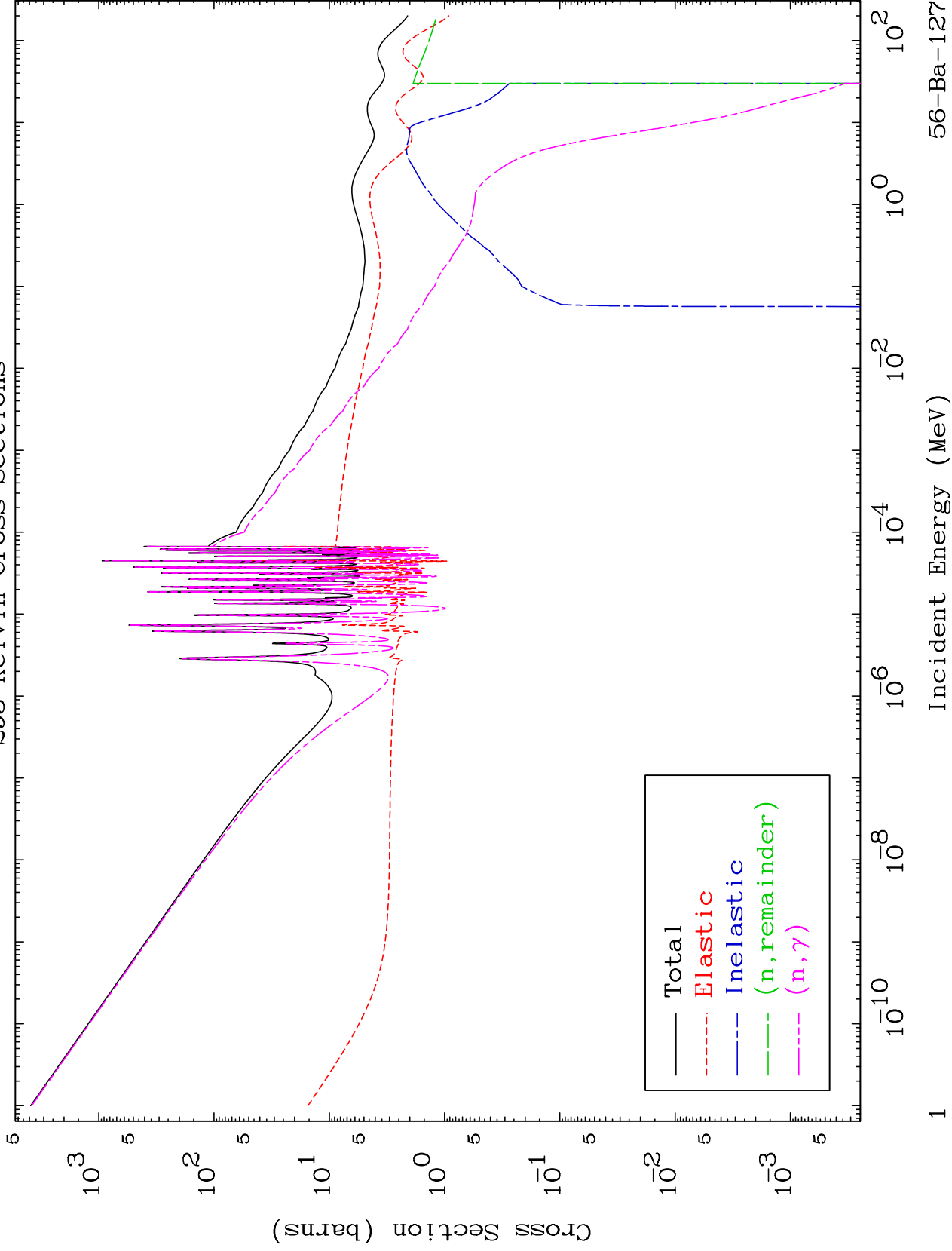
Press Mouse Button to Start

MAT 5616

Major

293 Kelvin Cross Sections

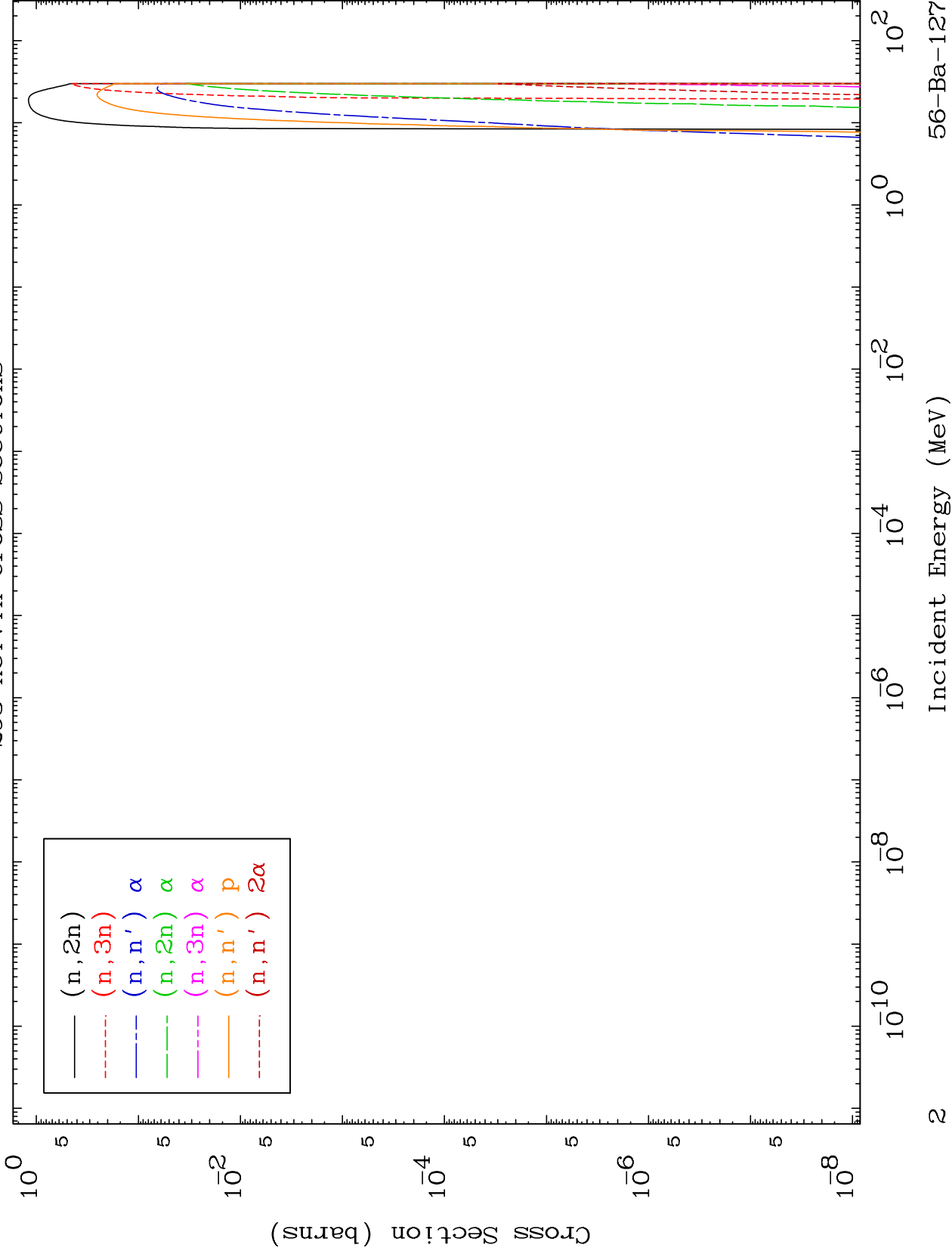
56-Ba-127

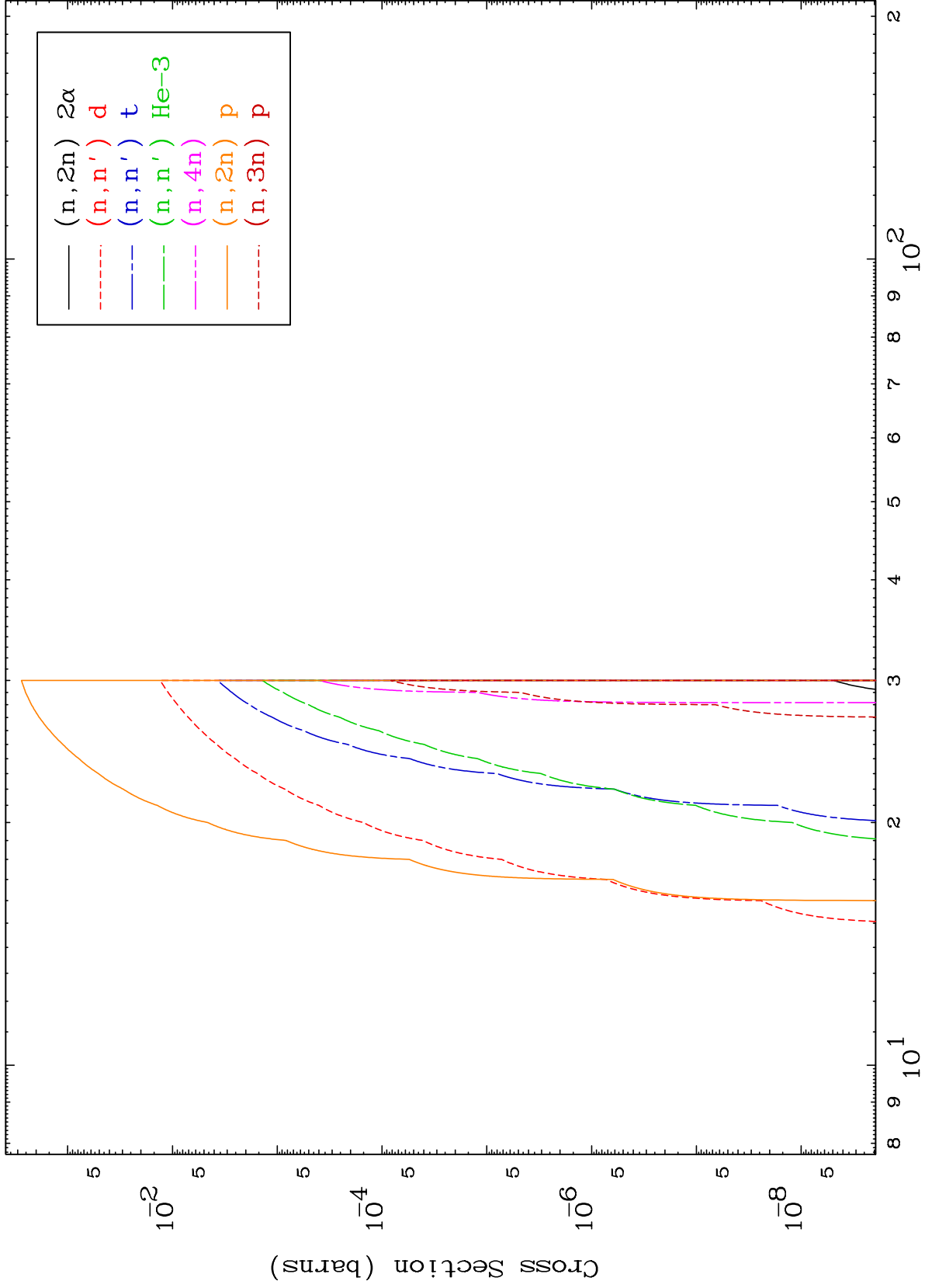


MAT 5616

Neutron Production  
293 Kelvin Cross Sections

56-Ba-127

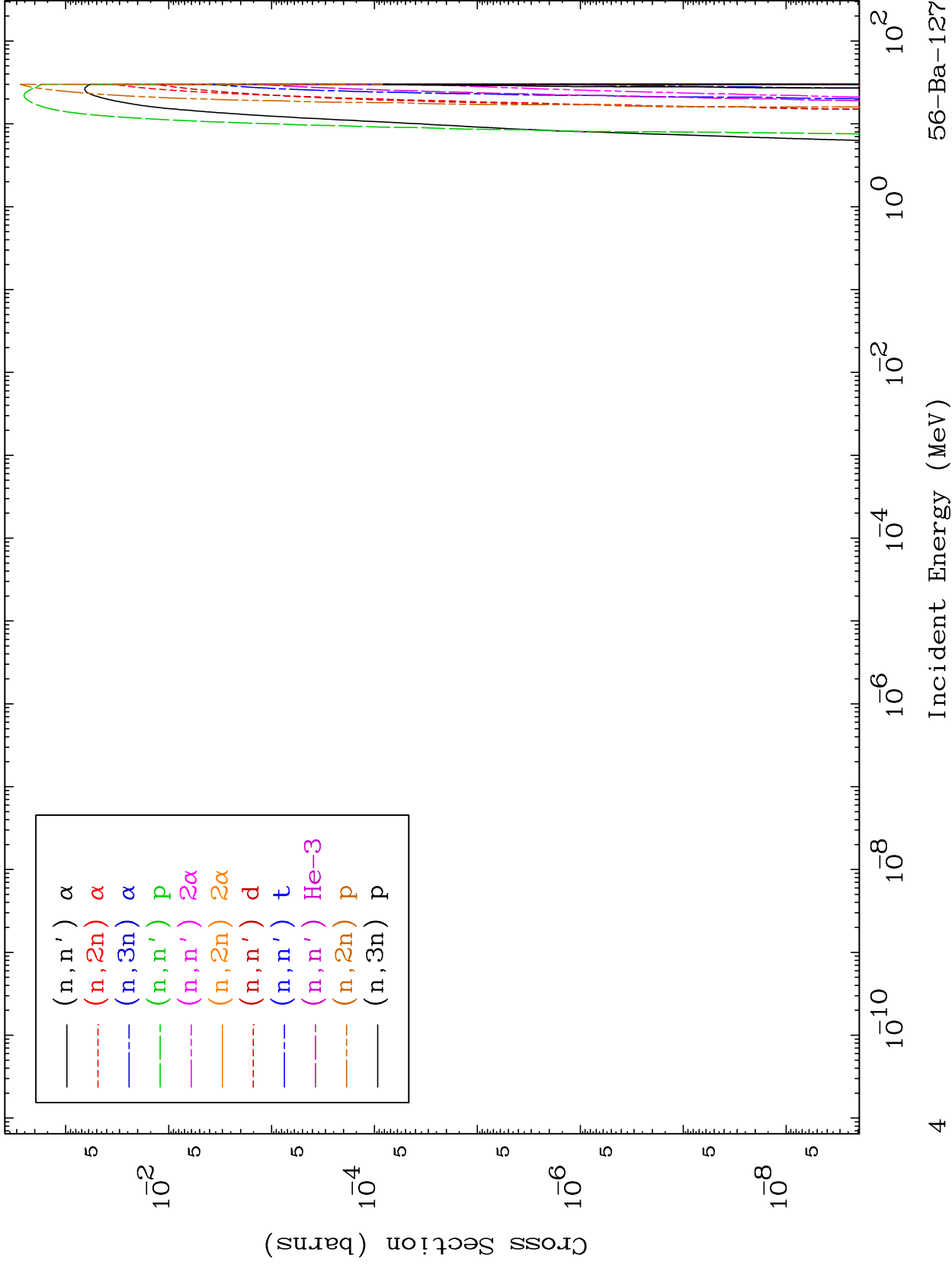




MAT 5616

Charged Particle  
293 Kelvin Cross Sections

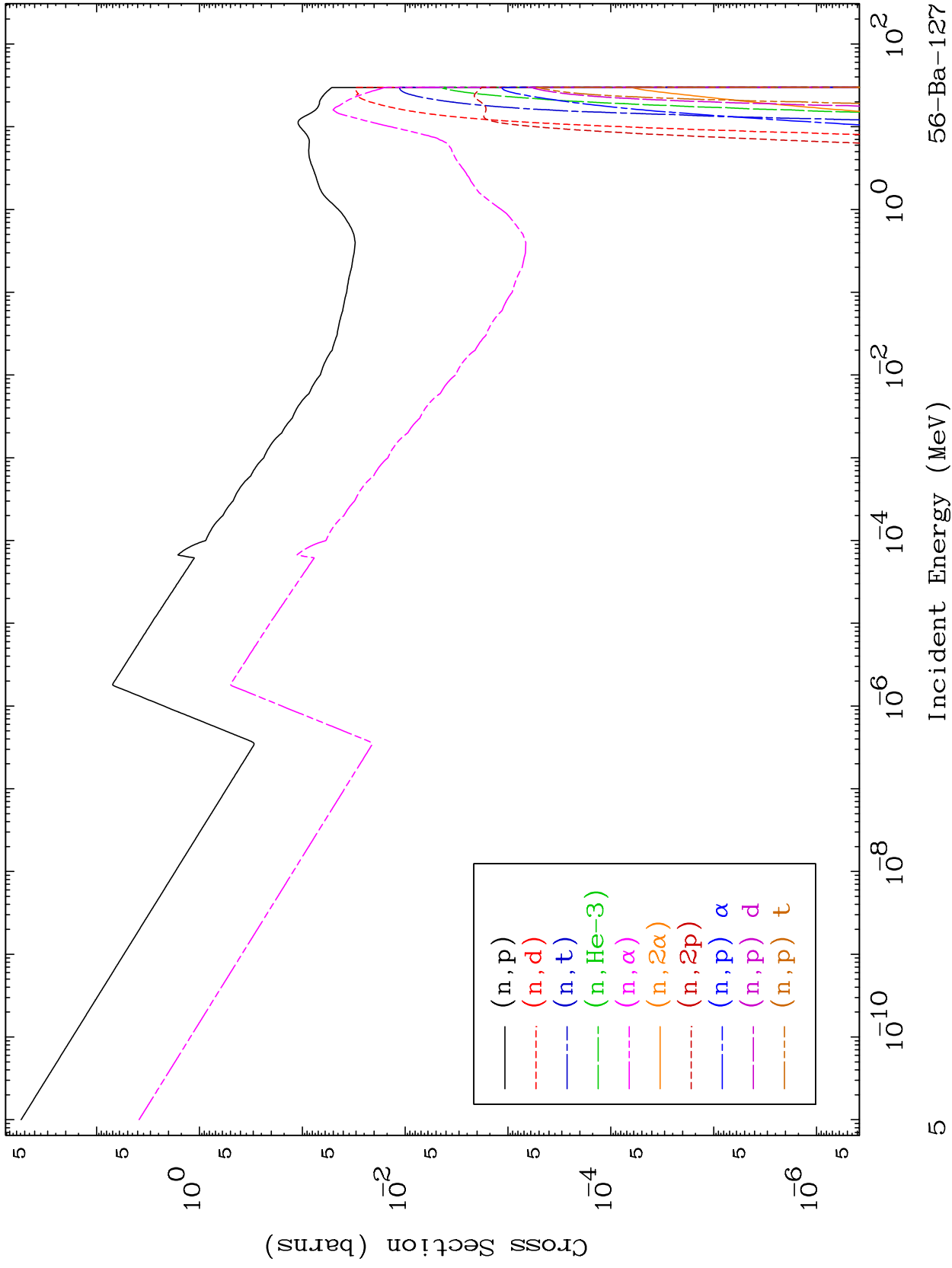
56-Ba-127



MAT 5616

Charged Particle  
293 Kelvin Cross Sections

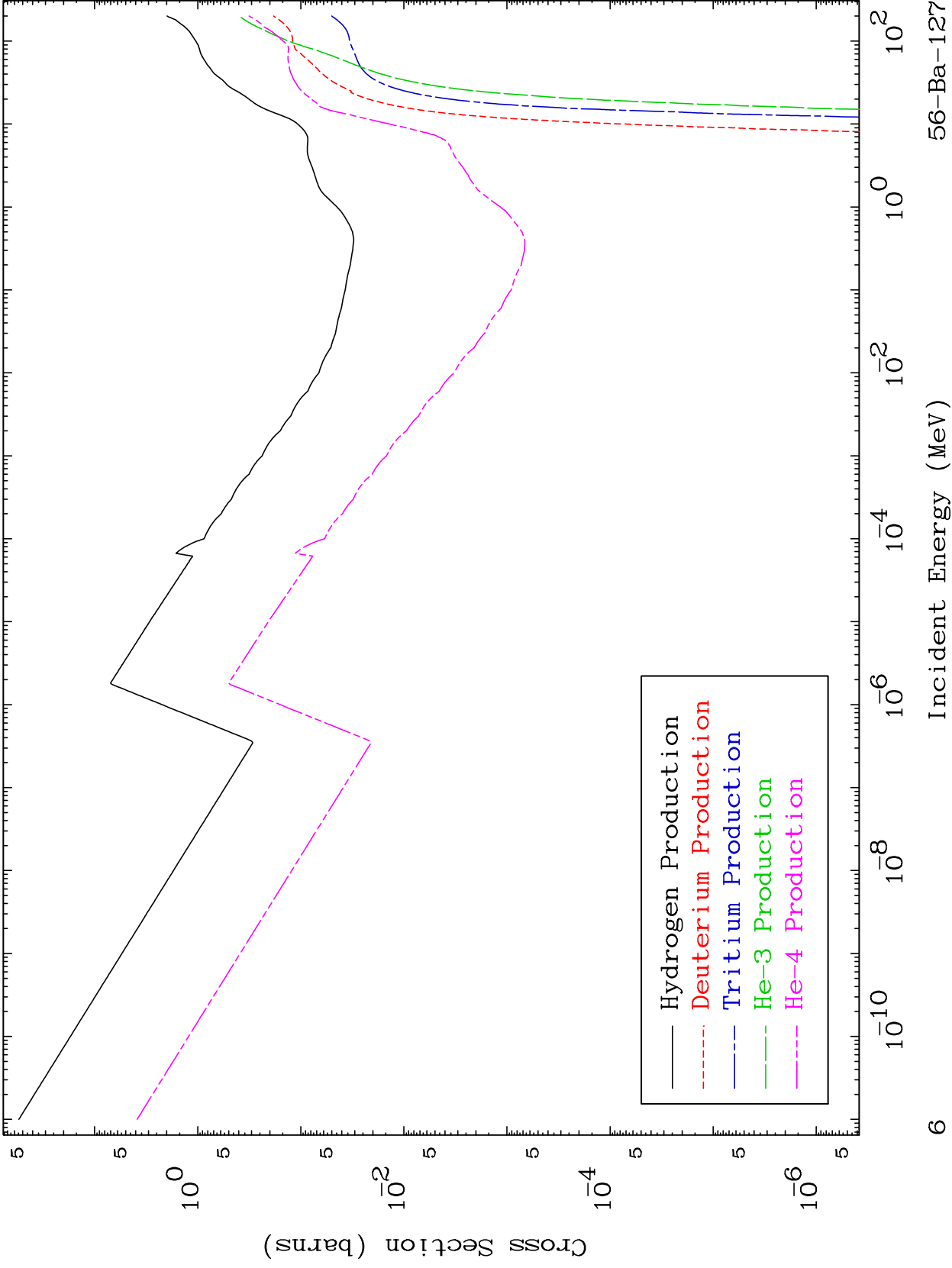
56-Ba-127



MAT 5616

Particle Production  
293 Kelvin Cross Sections

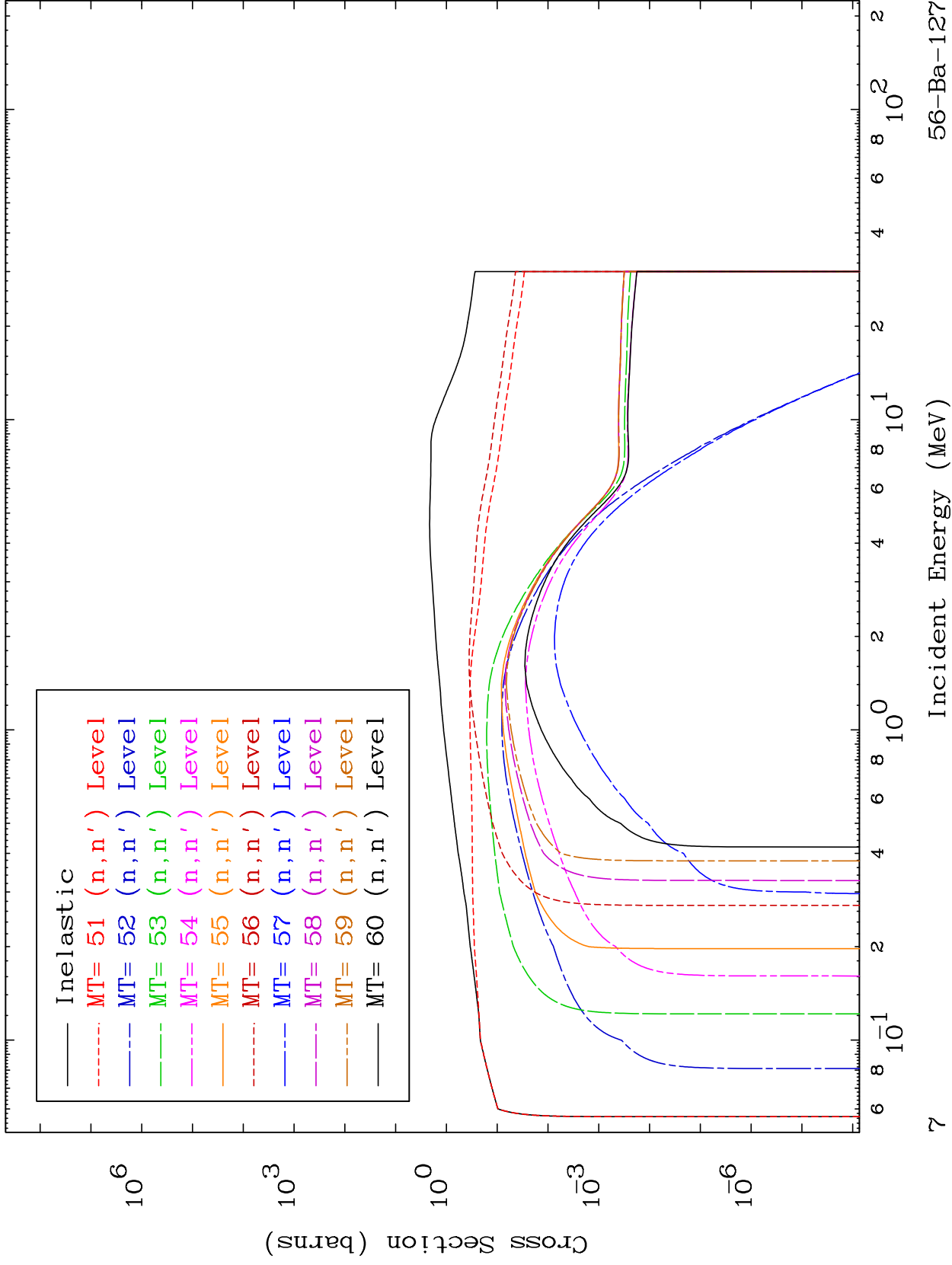
56-Ba-127



MAT 5616

(n,n') Level  
293 Kelvin Cross Sections

56-Ba-127



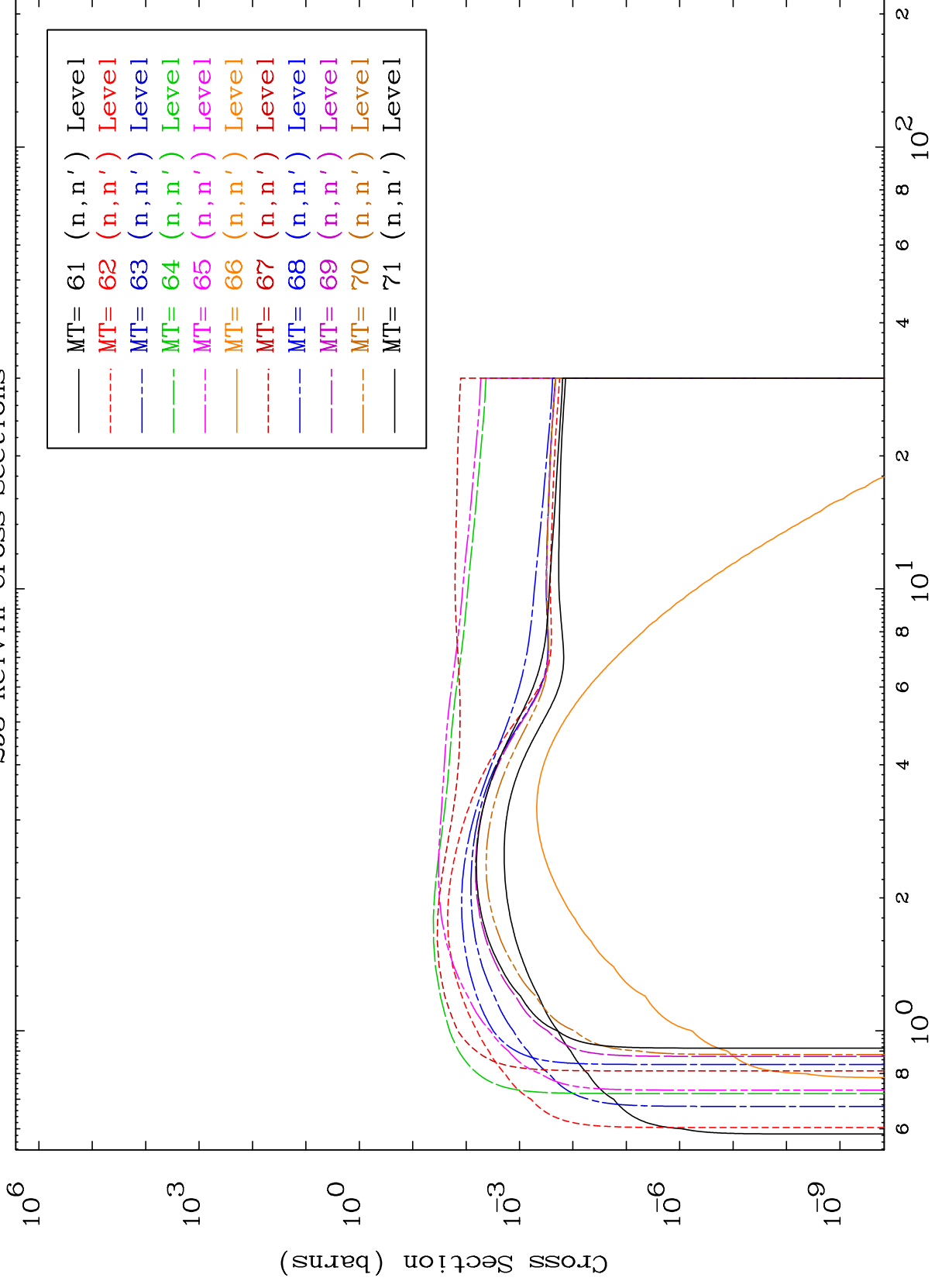


MAT 5616

(n,n') Level

56-Ba-127

293 Kelvin Cross Sections



8

Incident Energy (MeV)

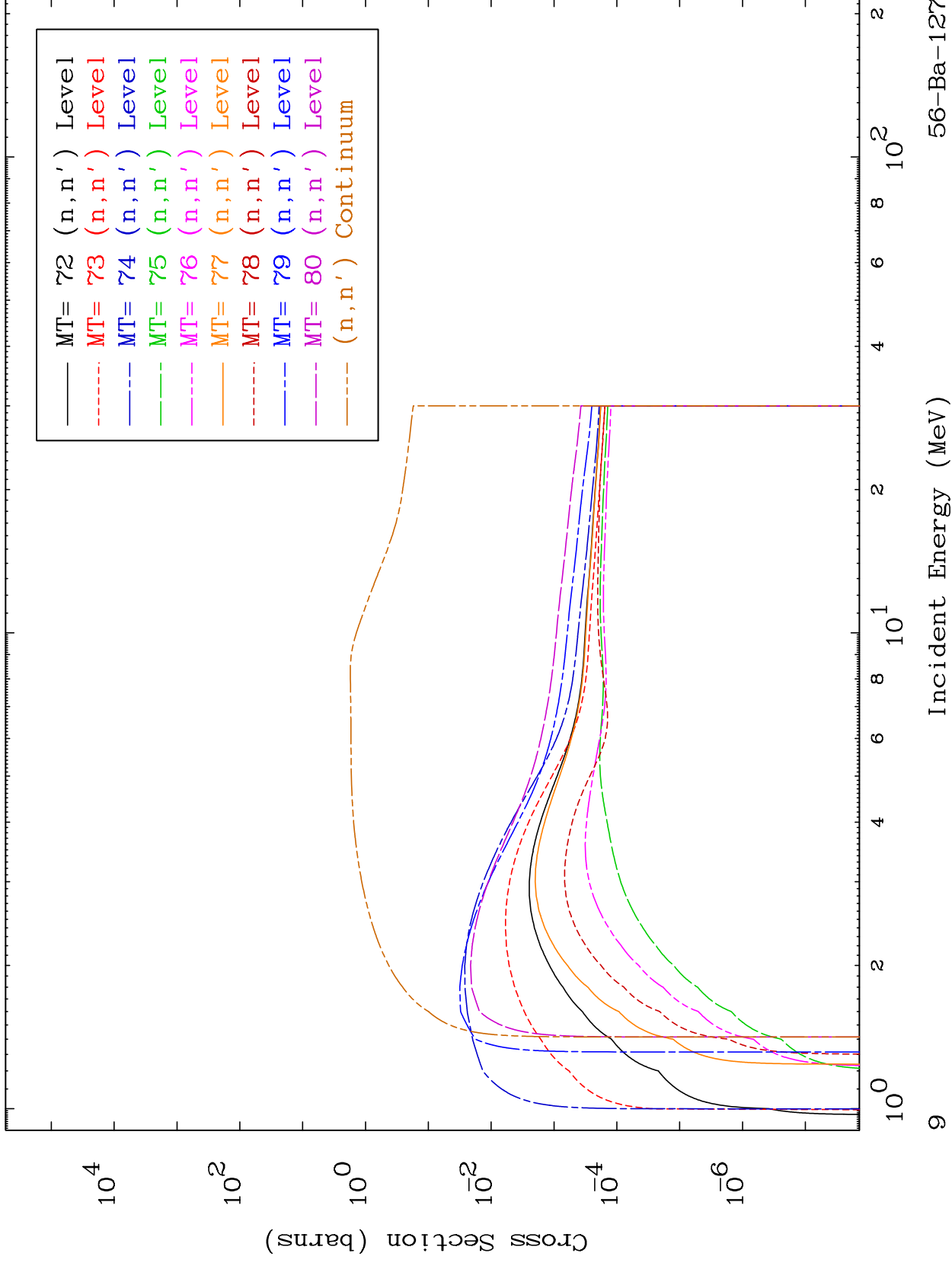
56-Ba-127

MAT 5616

(n,n') Level

56-Ba-127

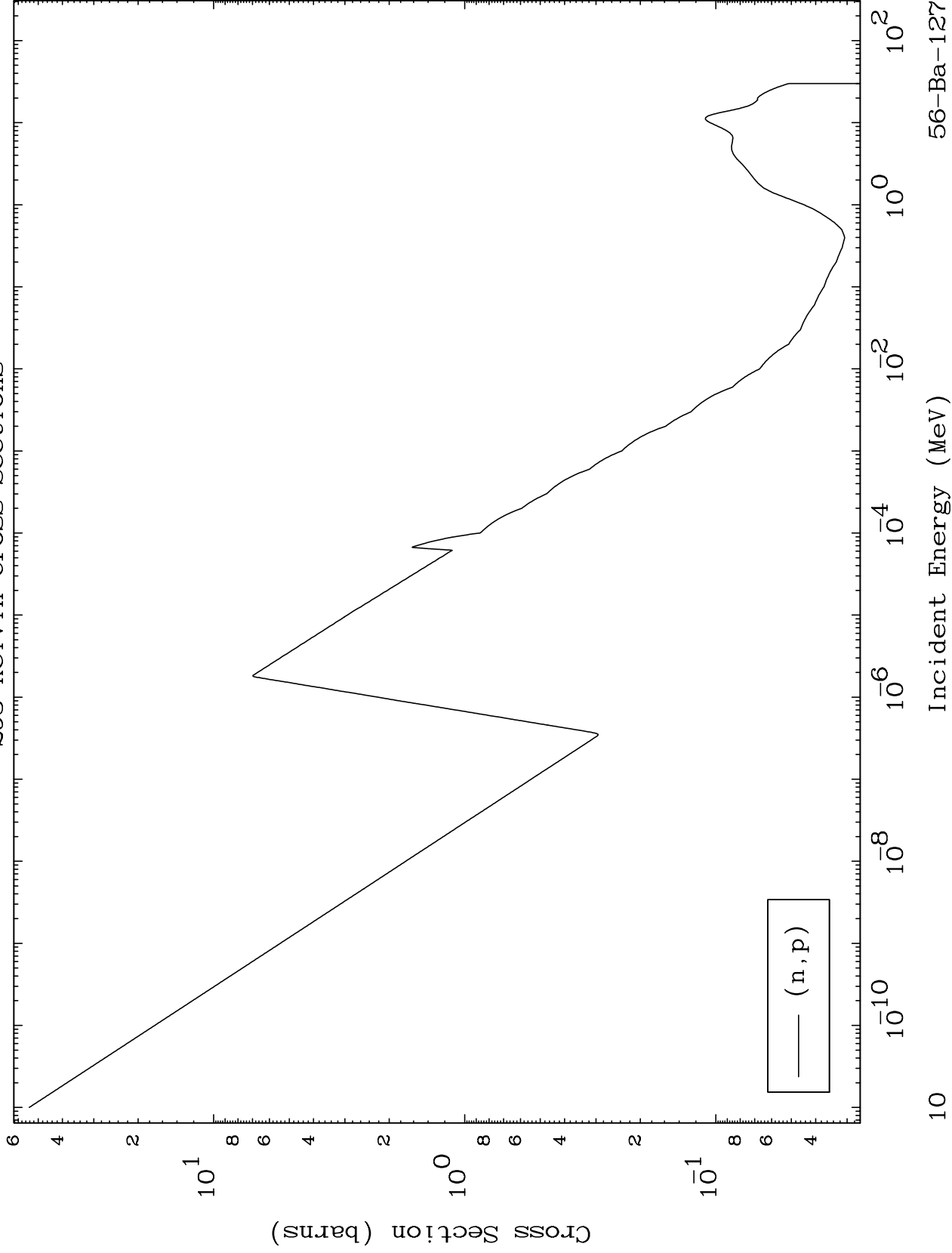
293 Kelvin Cross Sections



MAT 5616

(n,p) Levels  
293 Kelvin Cross Sections

56-Ba-127



10

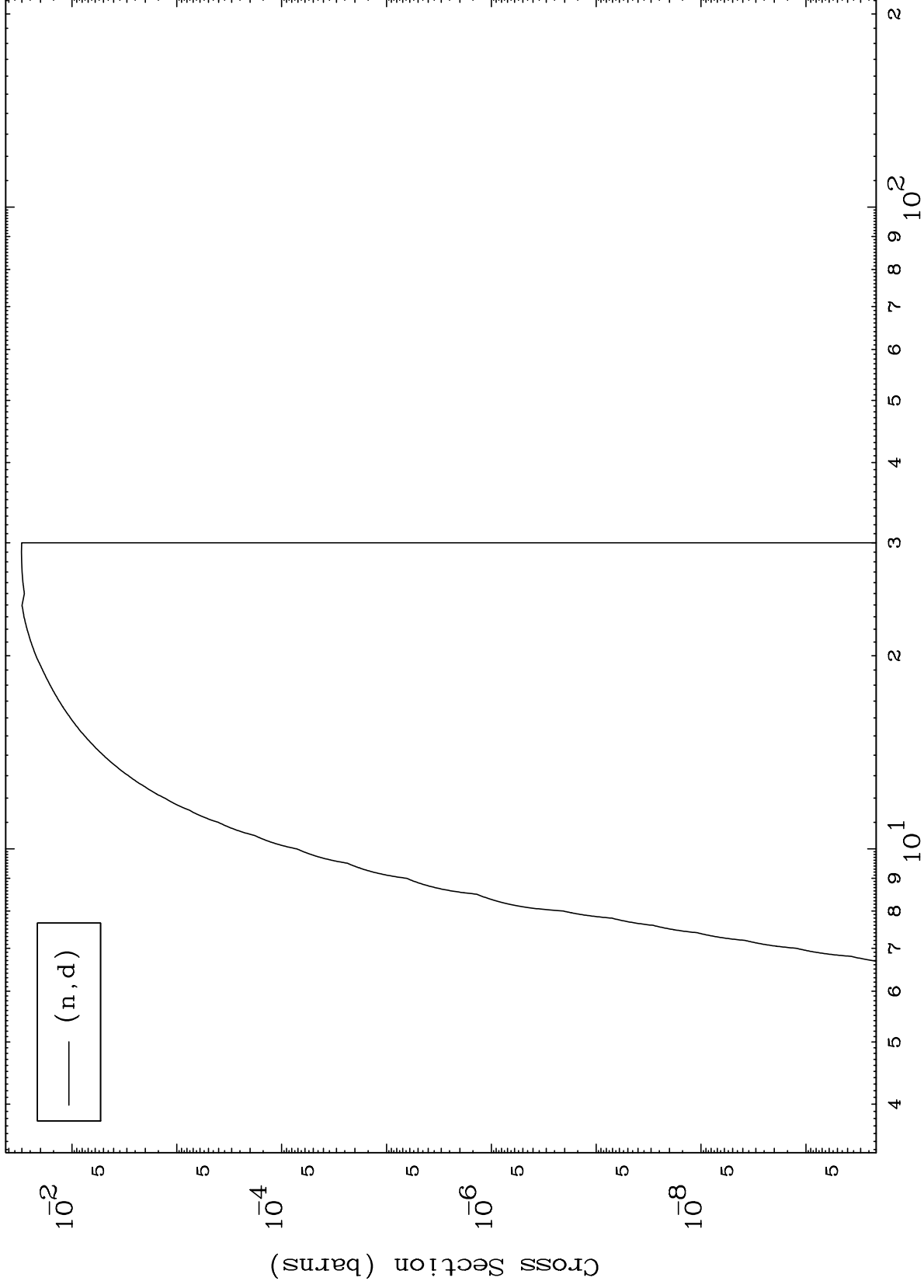
Incident Energy (MeV)

56-Ba-127

MAT 5616

(n,d) Levels  
293 Kelvin Cross Sections

56-Ba-127



11

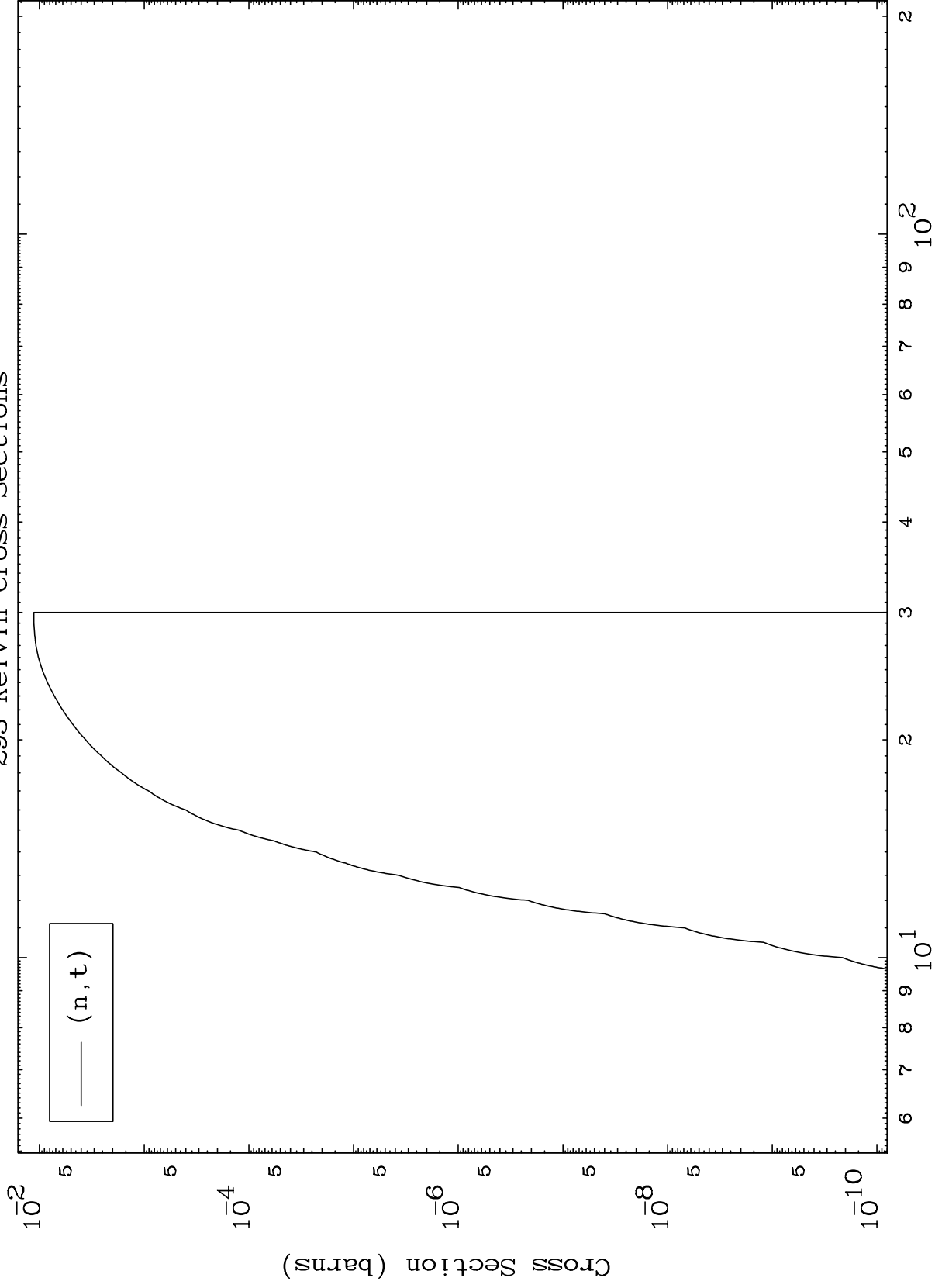
Incident Energy (MeV)

56-Ba-127

MAT 5616

(n,t) Levels  
293 Kelvin Cross Sections

56-Ba-127



12

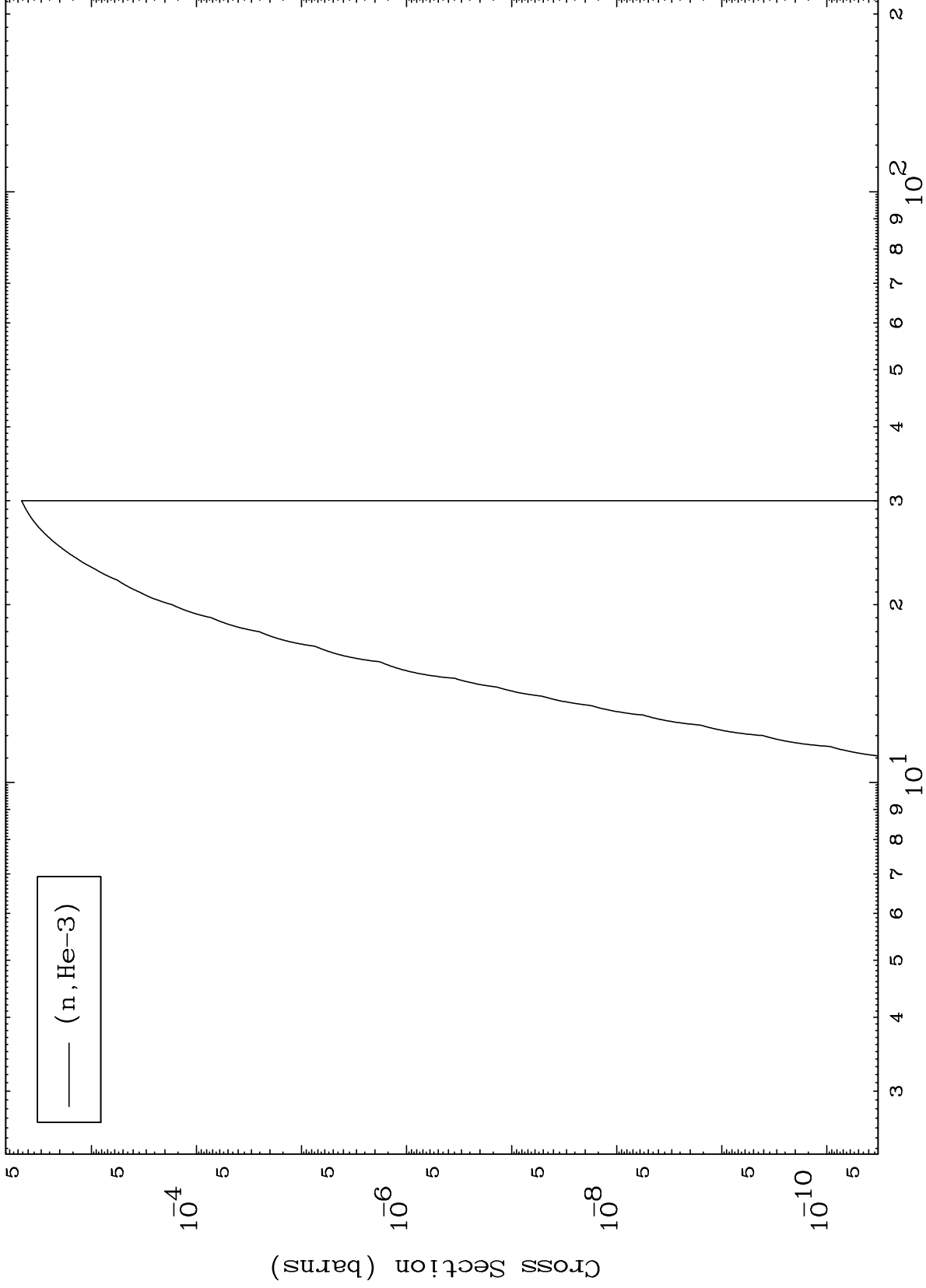
Incident Energy (MeV)

56-Ba-127

MAT 5616

(n,He3) Levels  
293 Kelvin Cross Sections

56-Ba-127



13

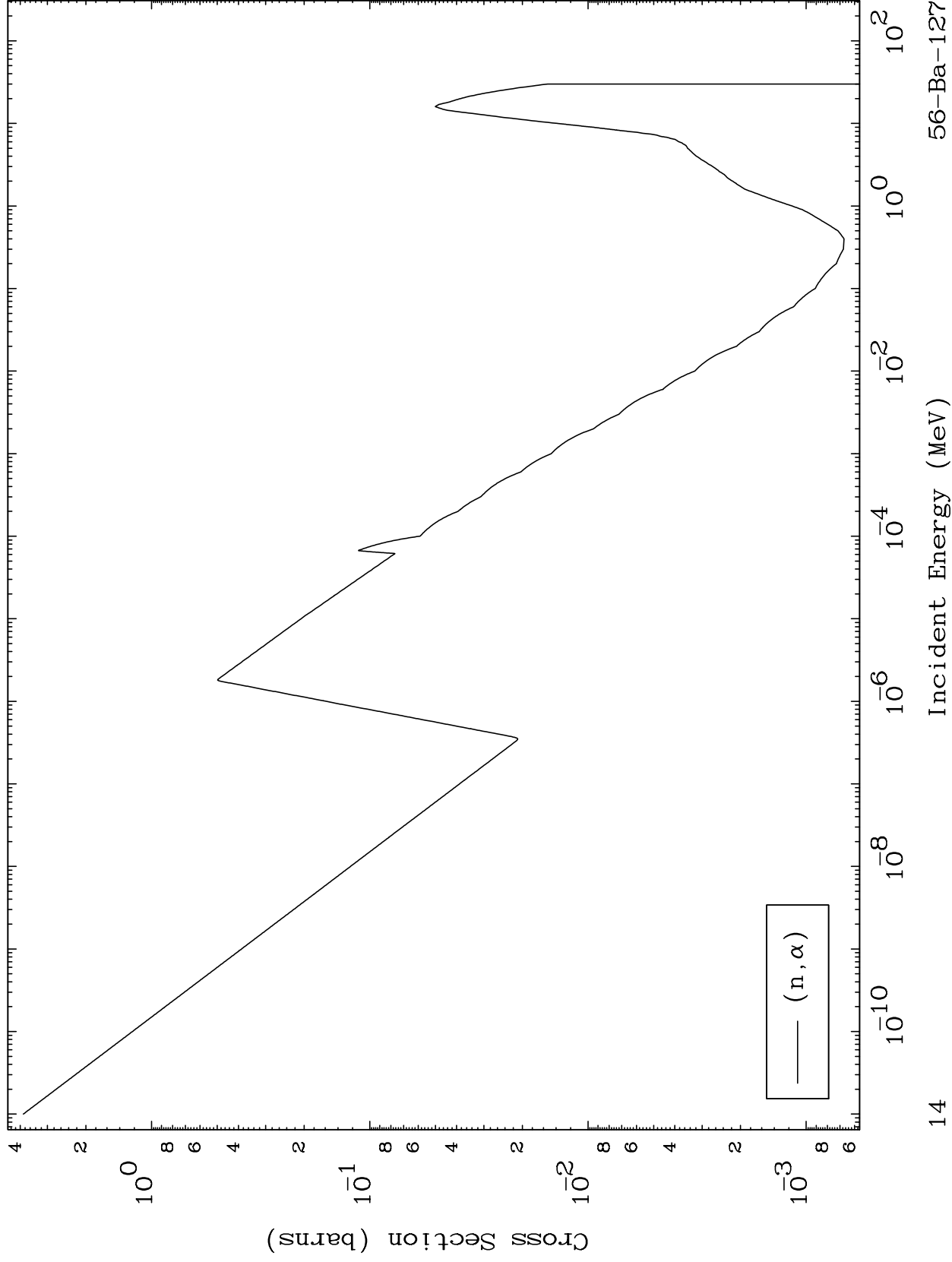
Incident Energy (MeV)

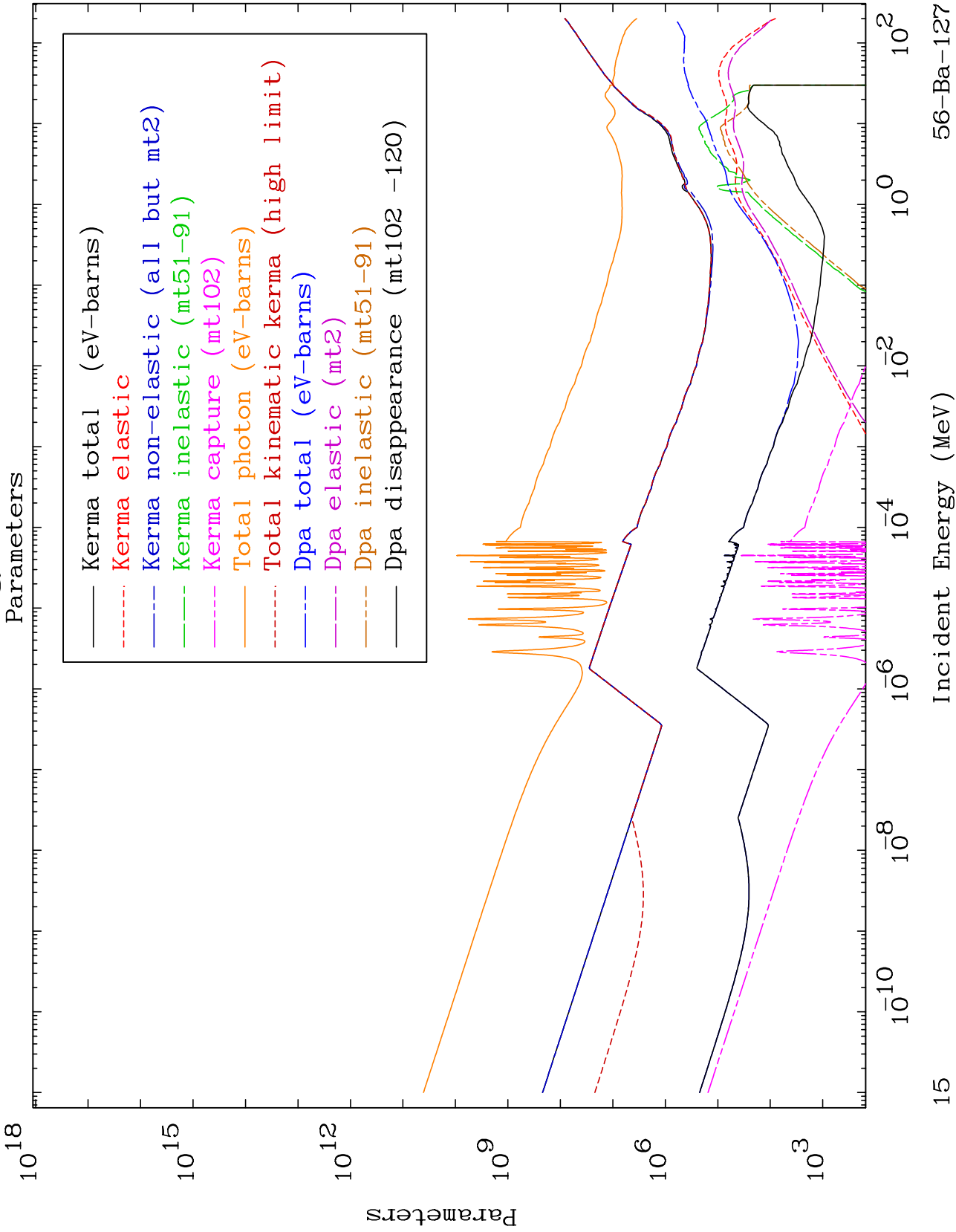
56-Ba-127

MAT 5616

(n,α) Levels  
293 Kelvin Cross Sections

56-Ba-127



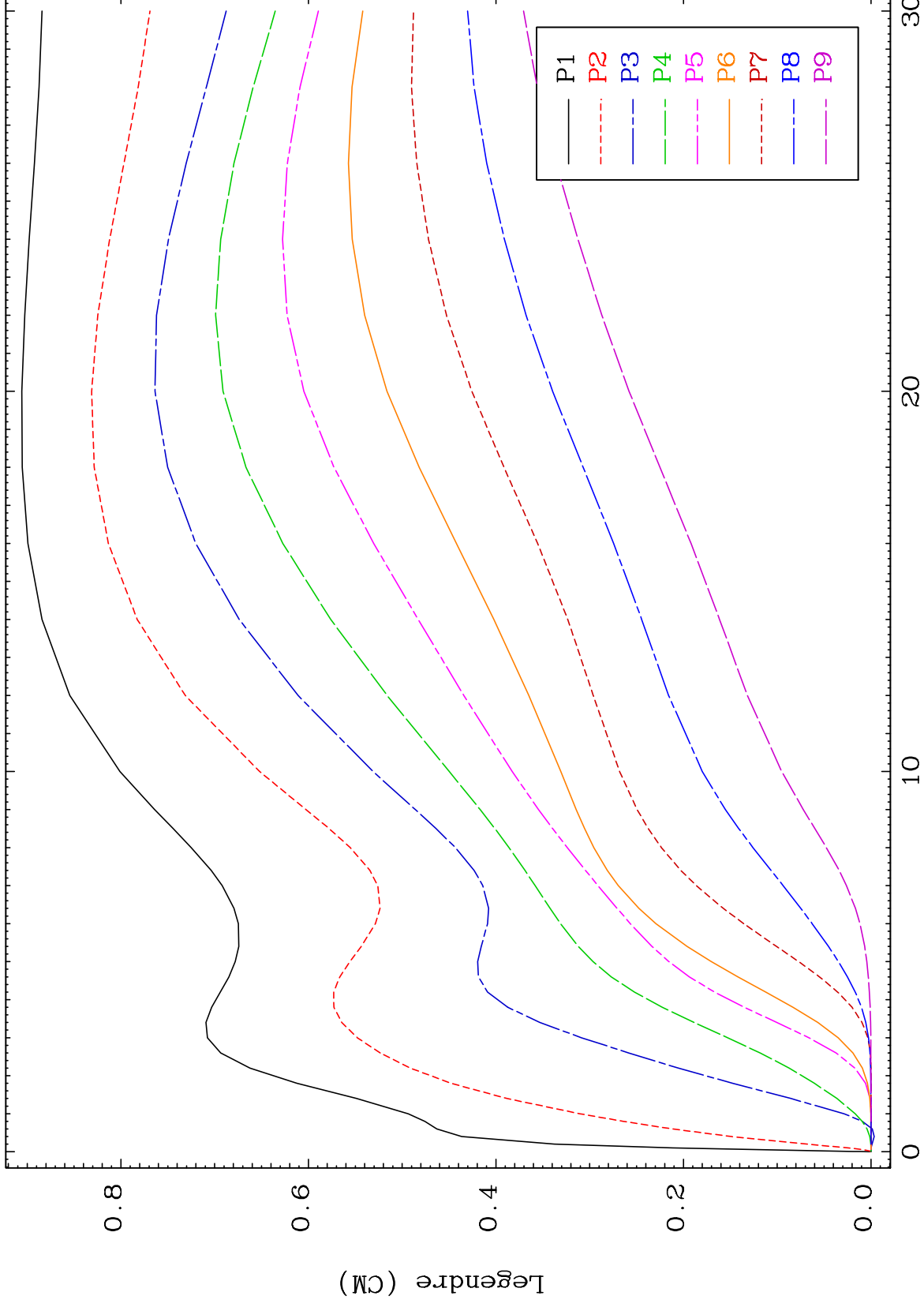




MAT 5616

56-Ba-127

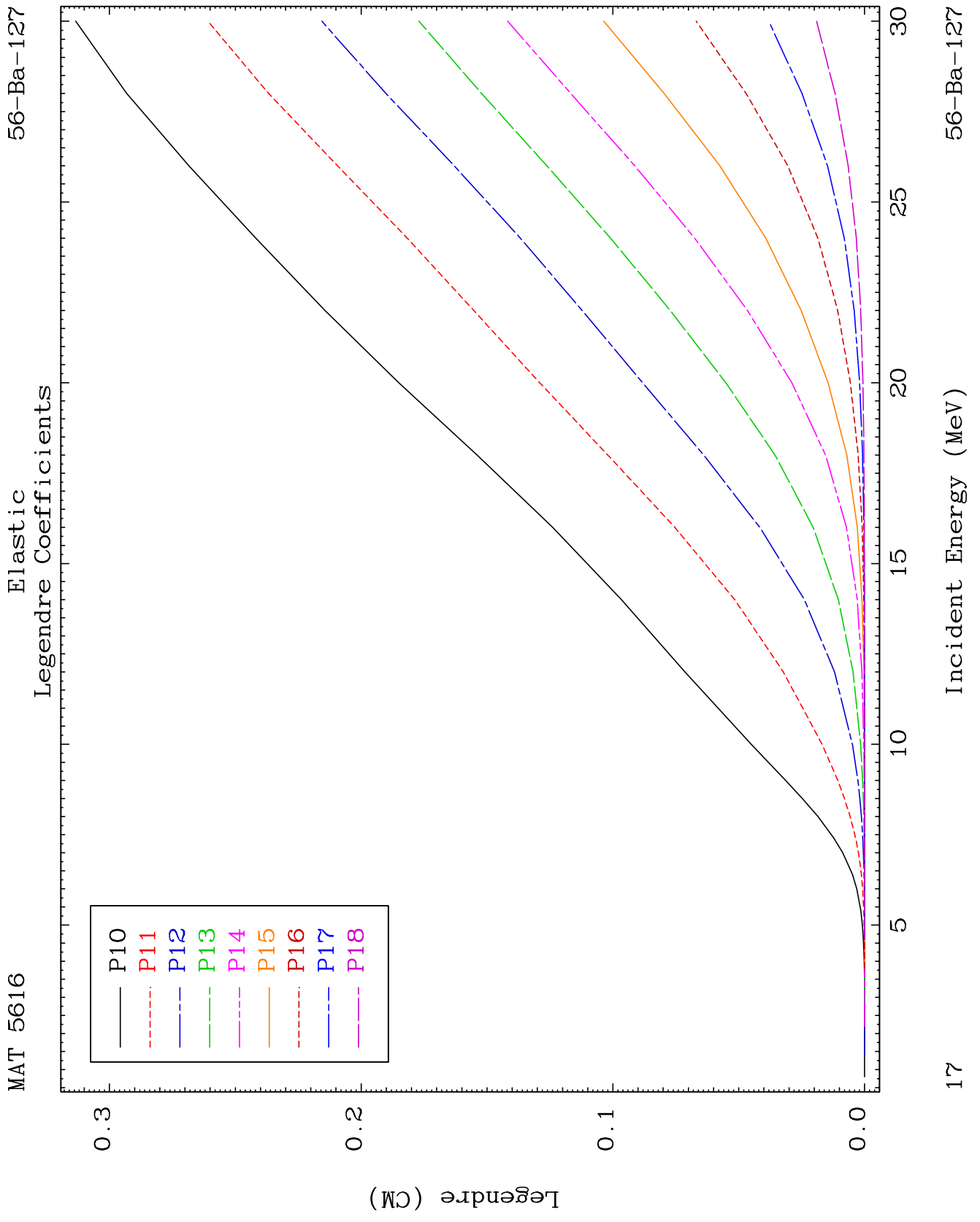
Elastic Legendre Coefficients



16

Incident Energy (MeV)

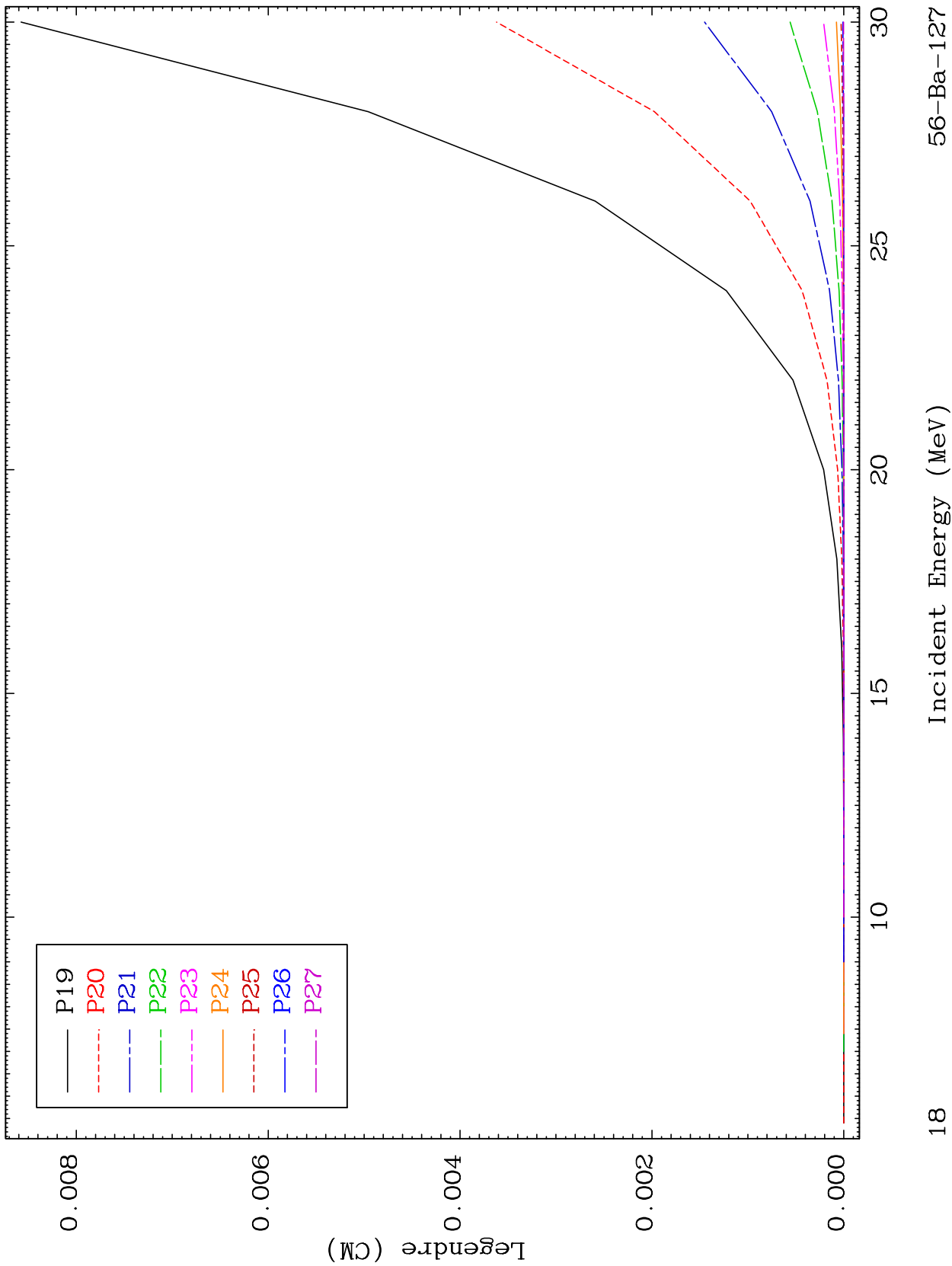
56-Ba-127



MAT 5616

### Elastic Legendre Coefficients

56-Ba-127



18

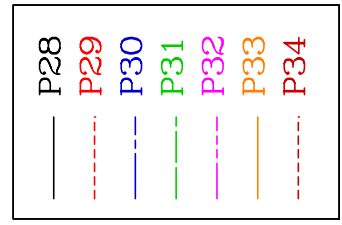
Incident Energy (MeV)

56-Ba-127

MAT 5616

Elastic Legendre Coefficients

56-Ba-127

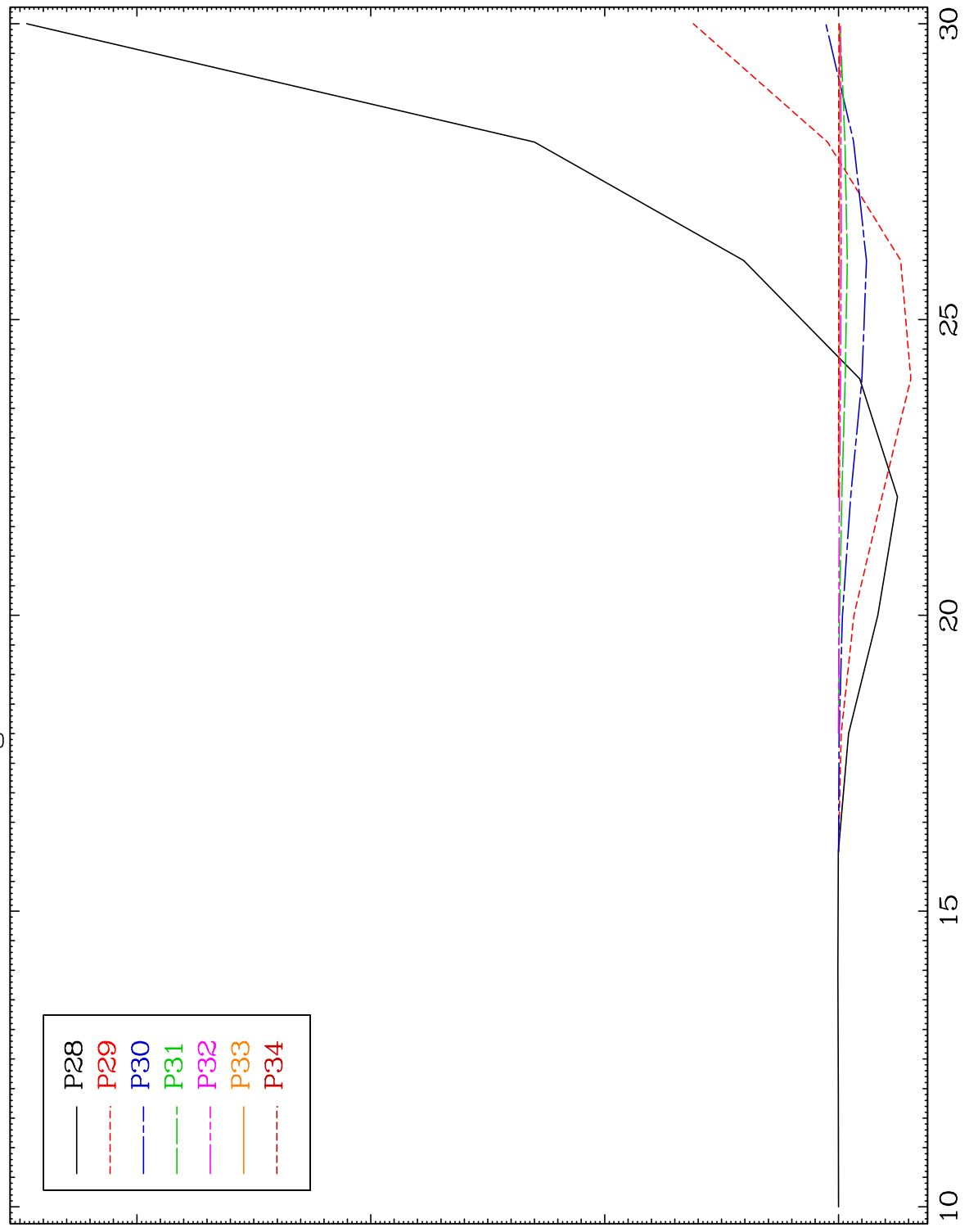


$\times 10^{-7}$

Legendre (CM)

Incident Energy (MeV)

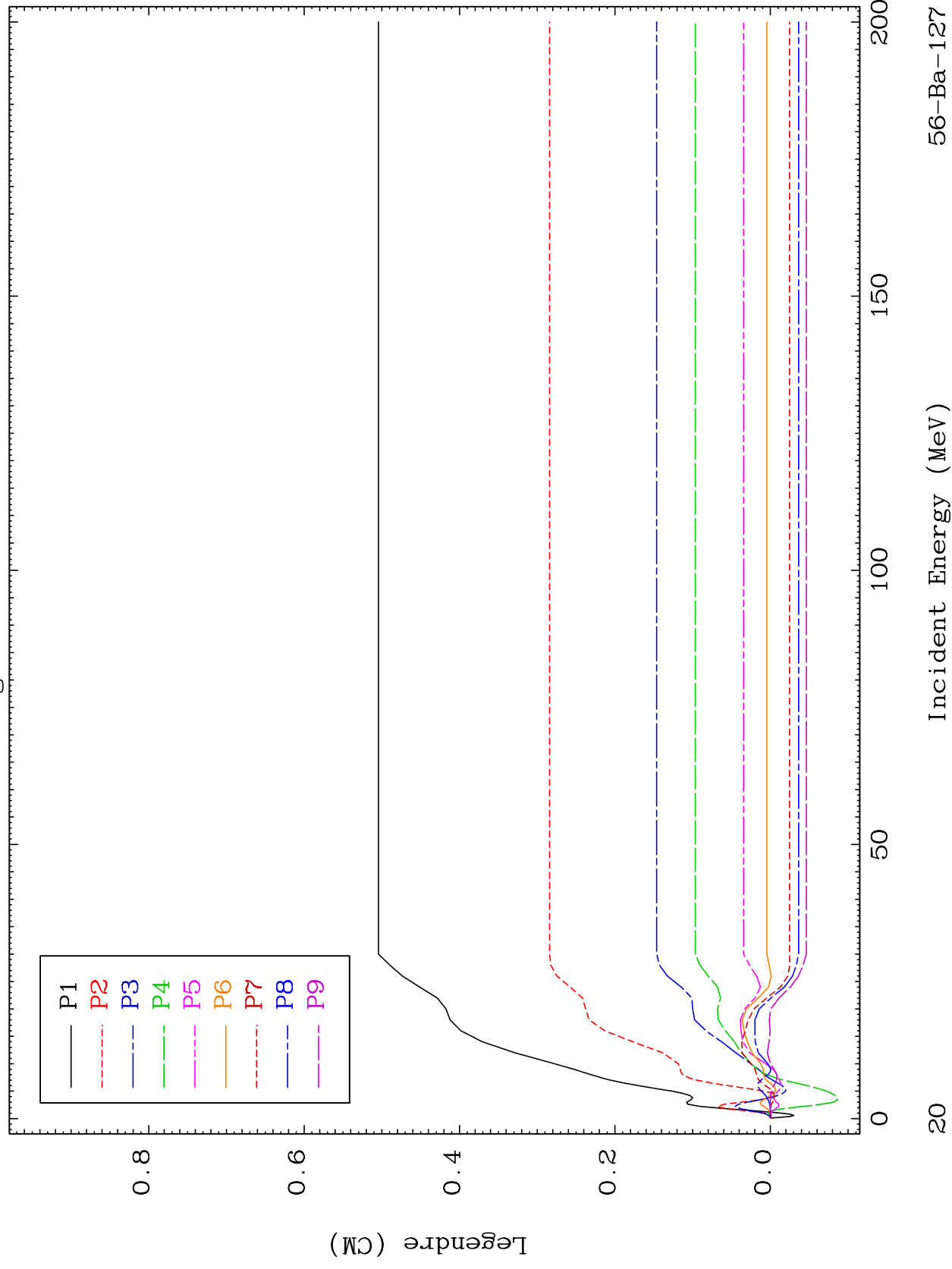
56-Ba-127



MAT 5616

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

56-Ba-127



56-Ba-127

Incident Energy (MeV)

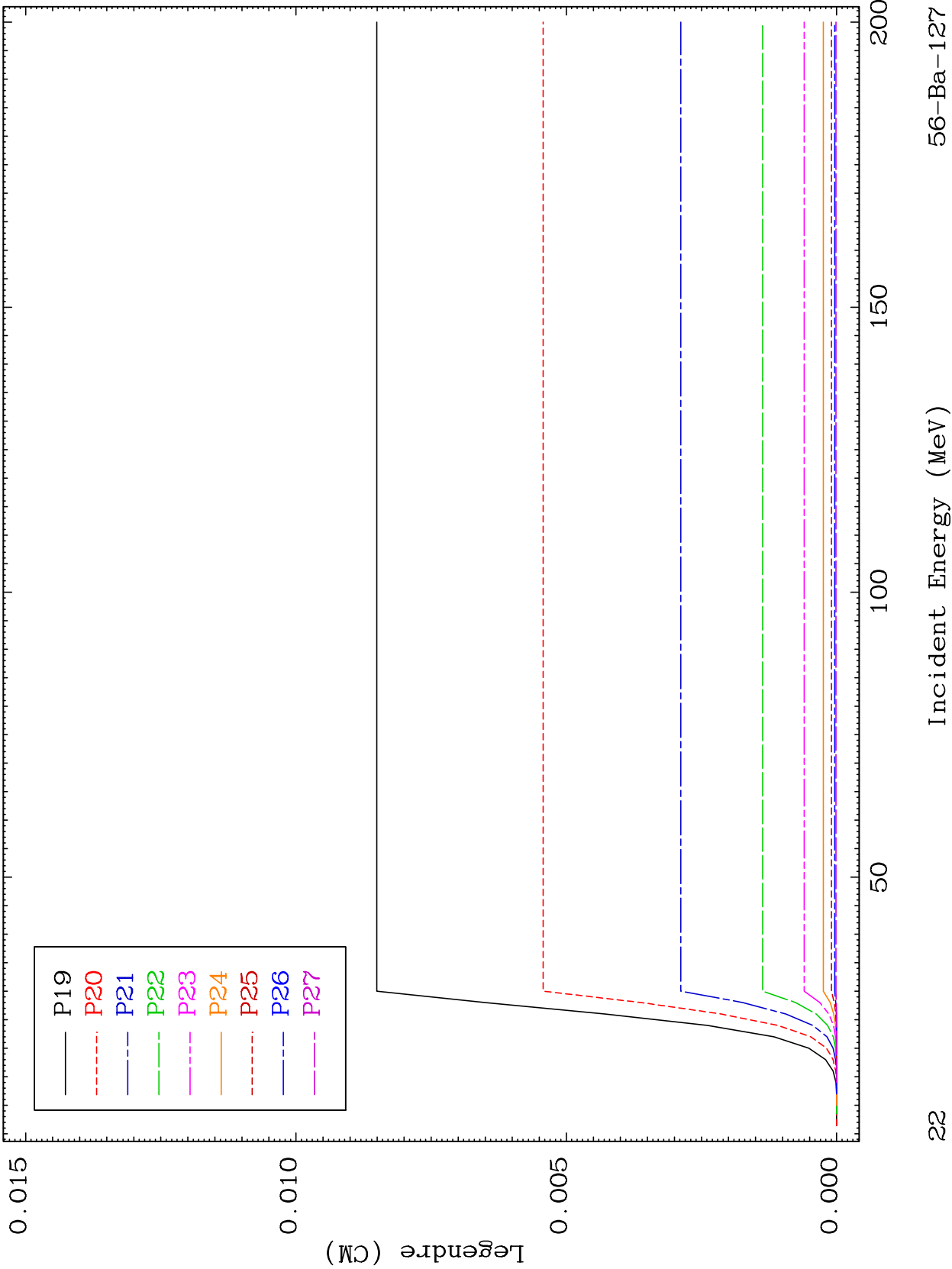
20



MAT 5616

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

56-Ba-127



22

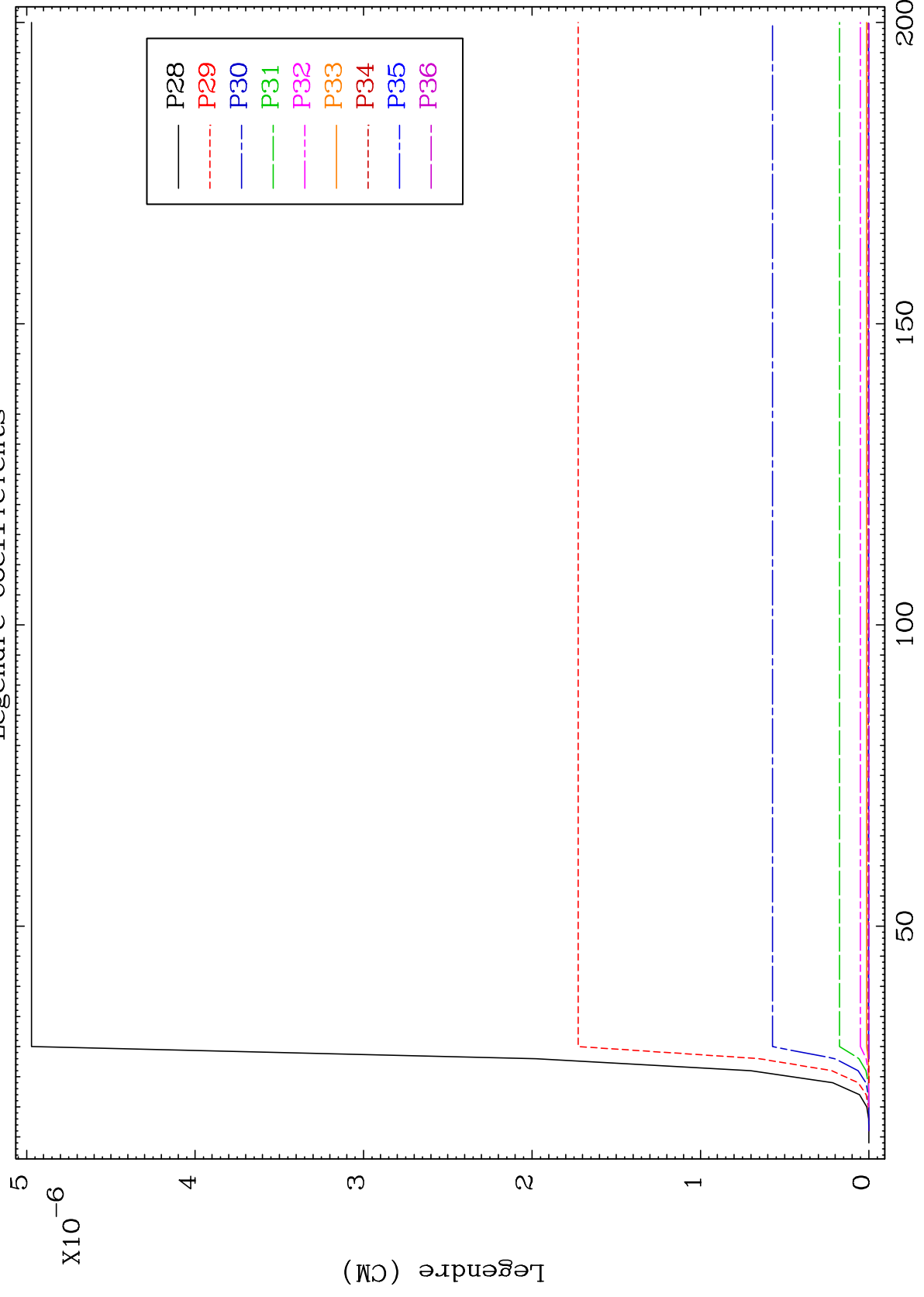
Incident Energy (MeV)

56-Ba-127

MAT 5616

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

56-Ba-127

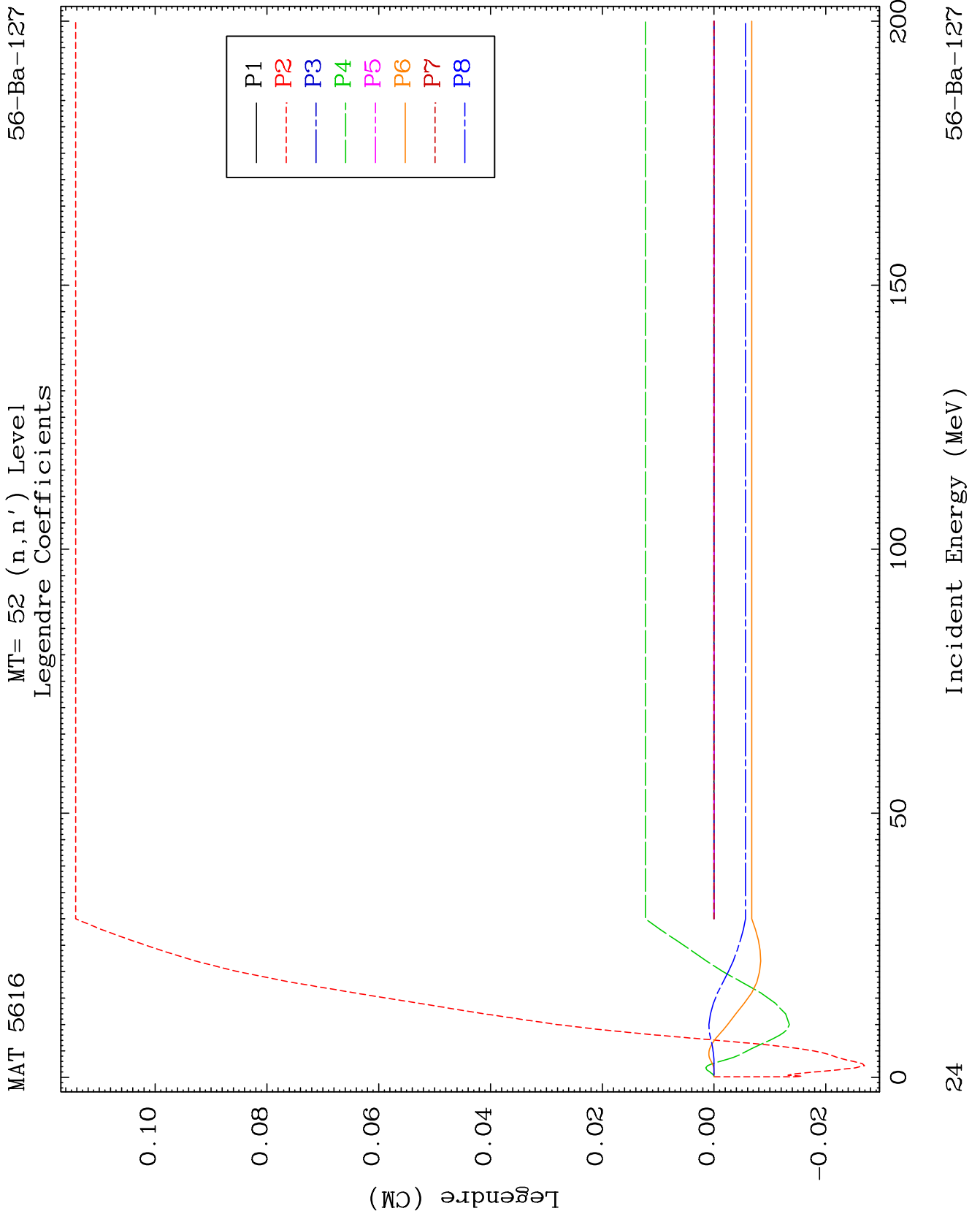


56-Ba-127

Incident Energy (MeV)

23

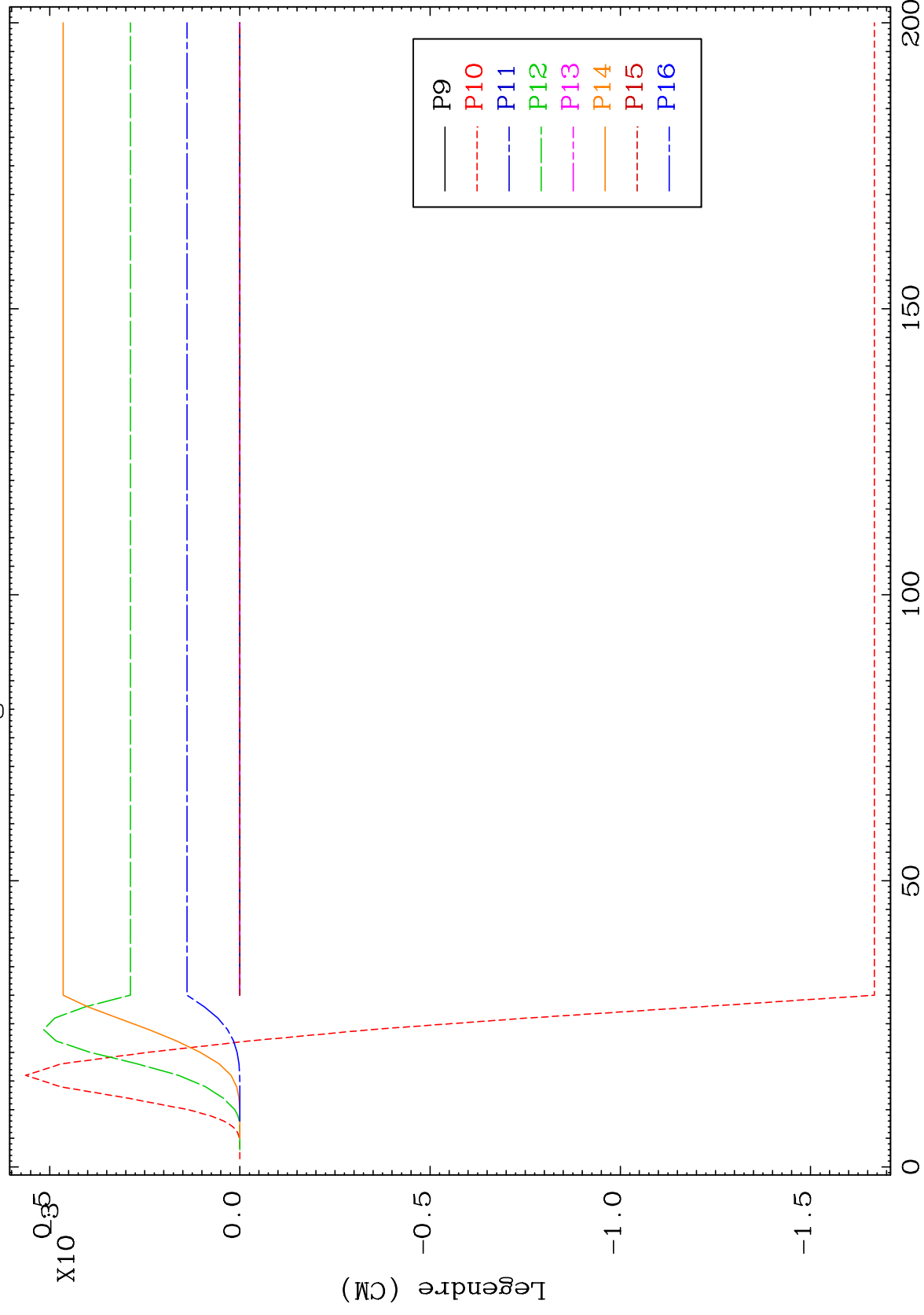




MAT 5616

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

56-Ba-127



25

Incident Energy (MeV)

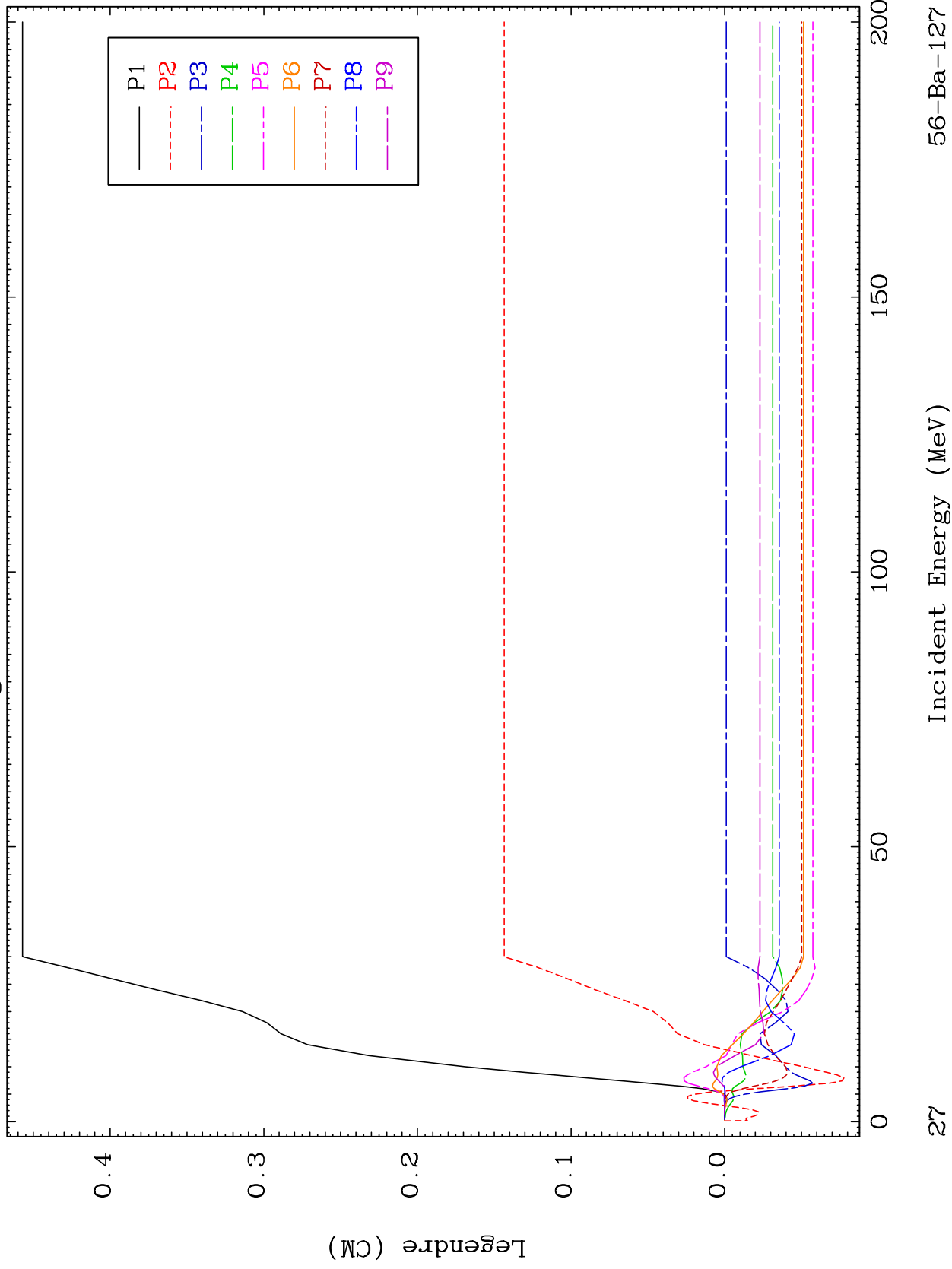
56-Ba-127



MAT 5616

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

56-Ba-127



27

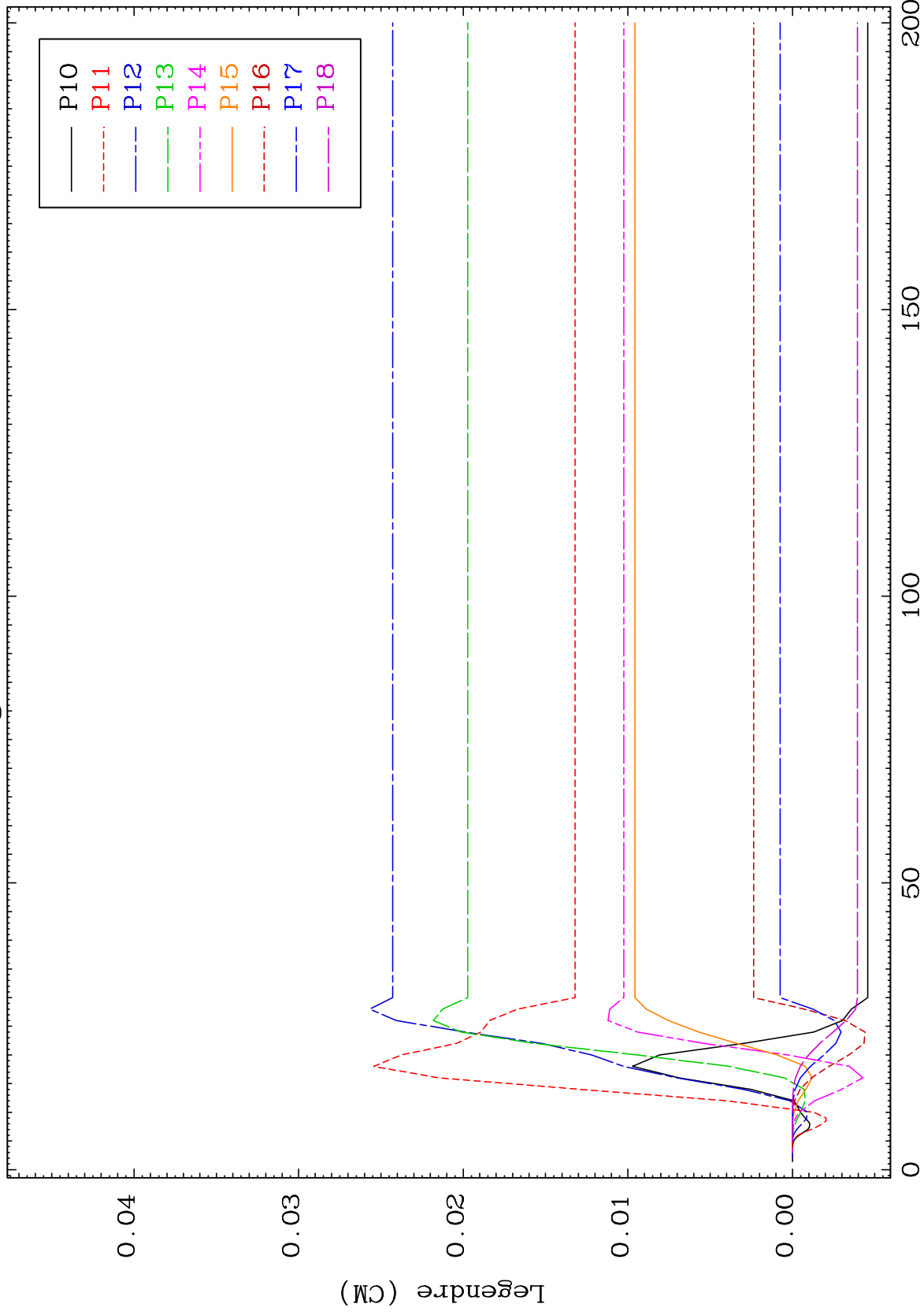
Incident Energy (MeV)

56-Ba-127

MAT 5616

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

56-Ba-127



28

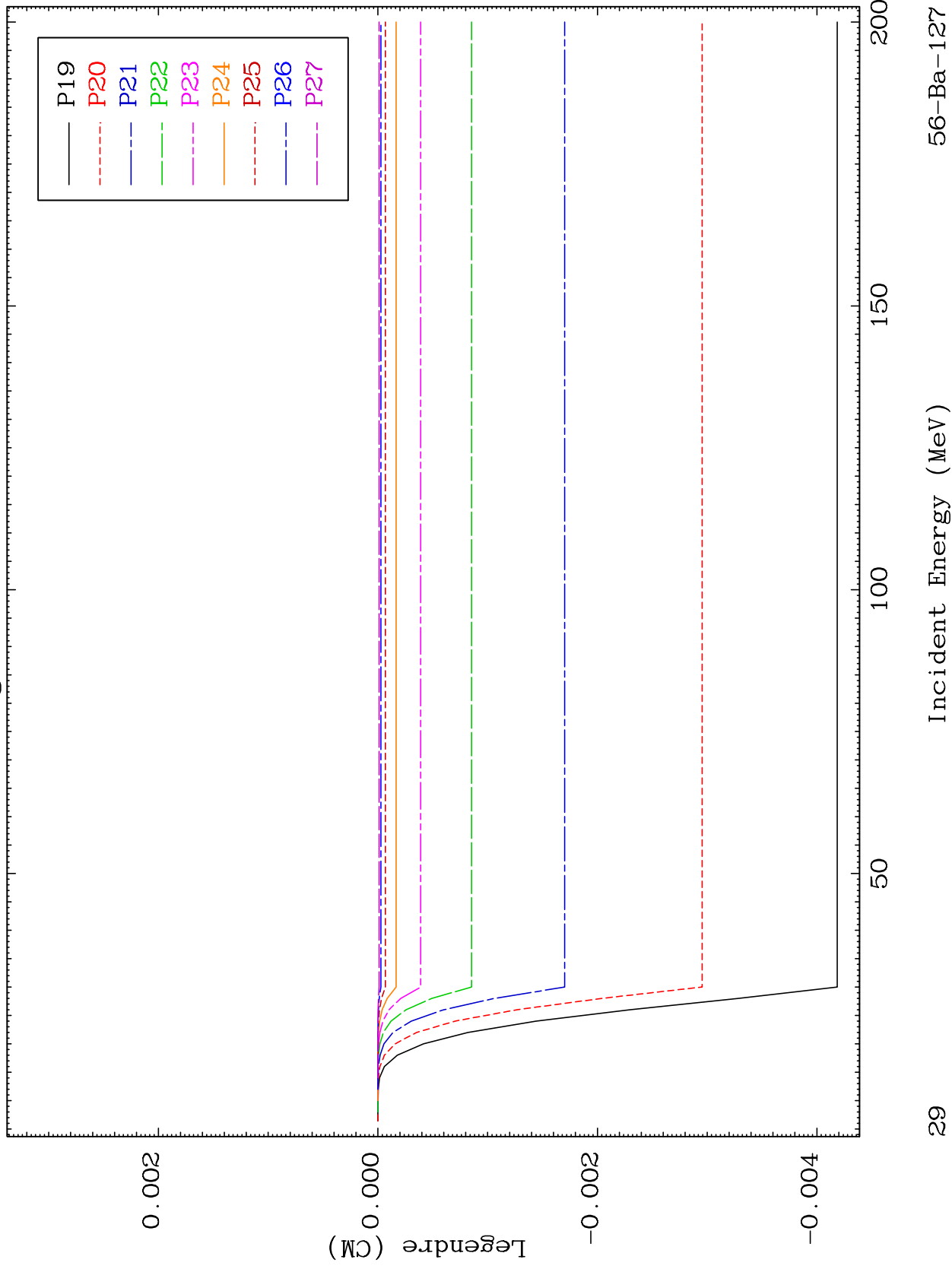
Incident Energy (MeV)

56-Ba-127

MAT 5616

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

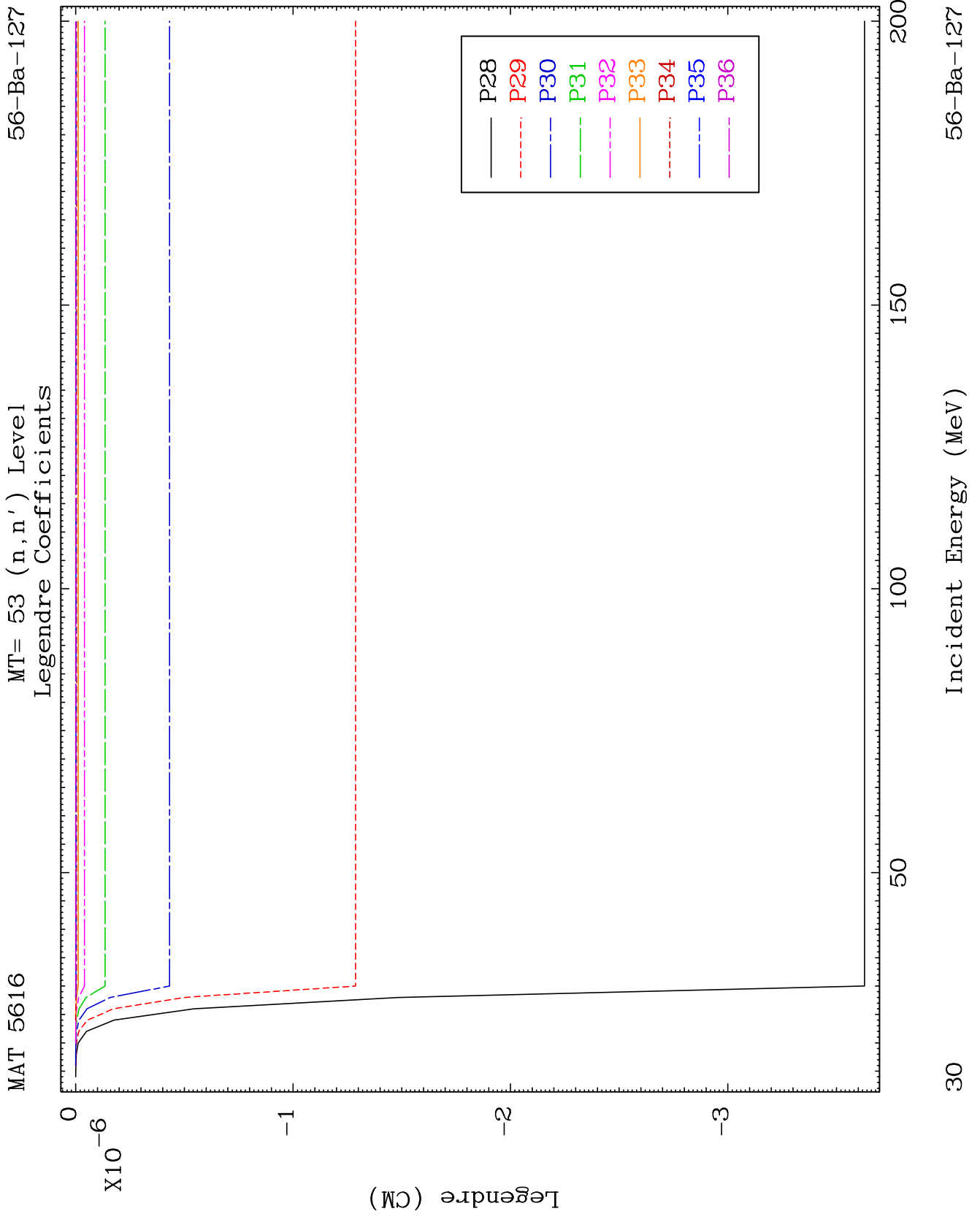
56-Ba-127



29

Incident Energy (MeV)

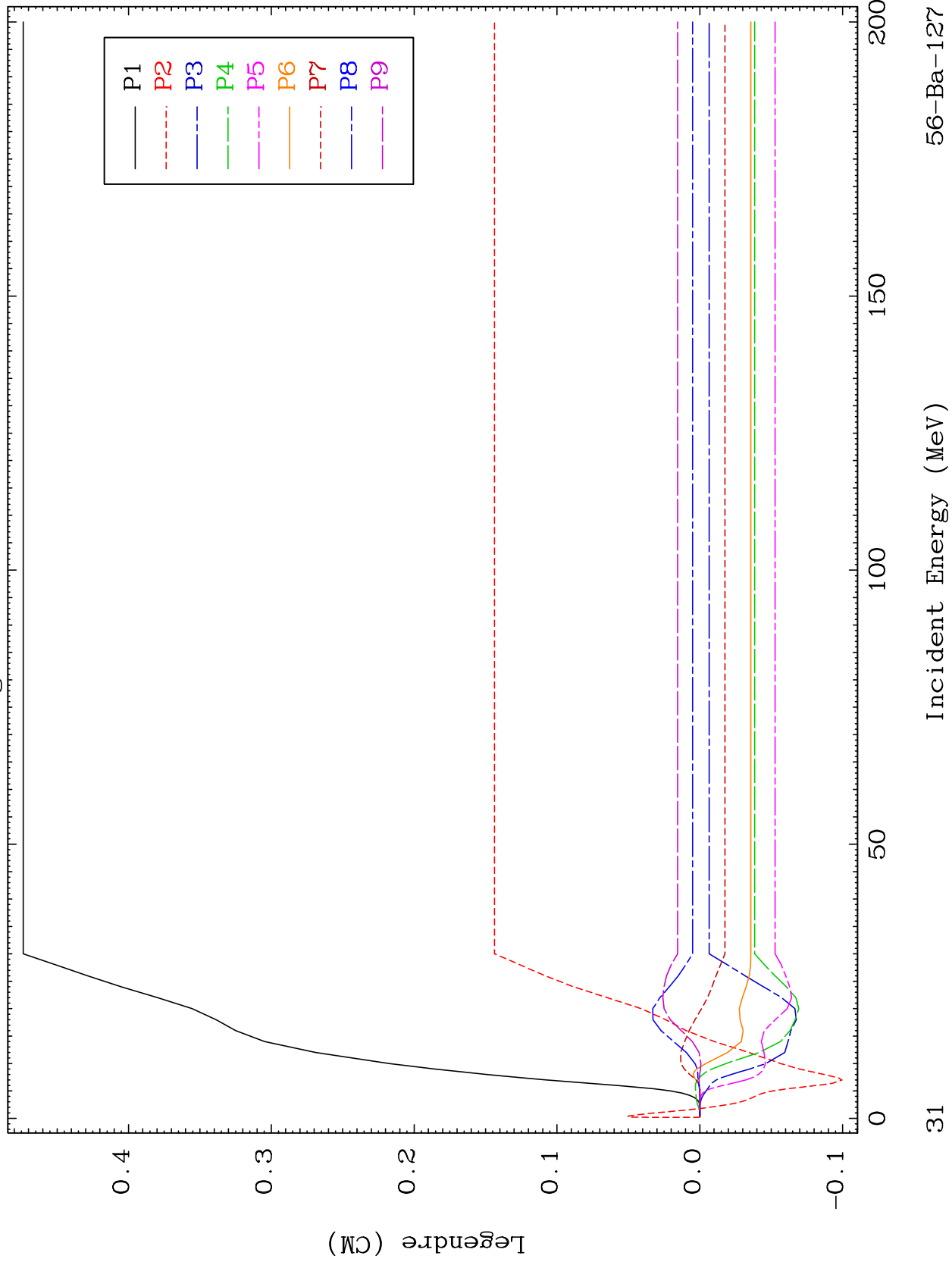
56-Ba-127



MAT 5616

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

56-Ba-127



31

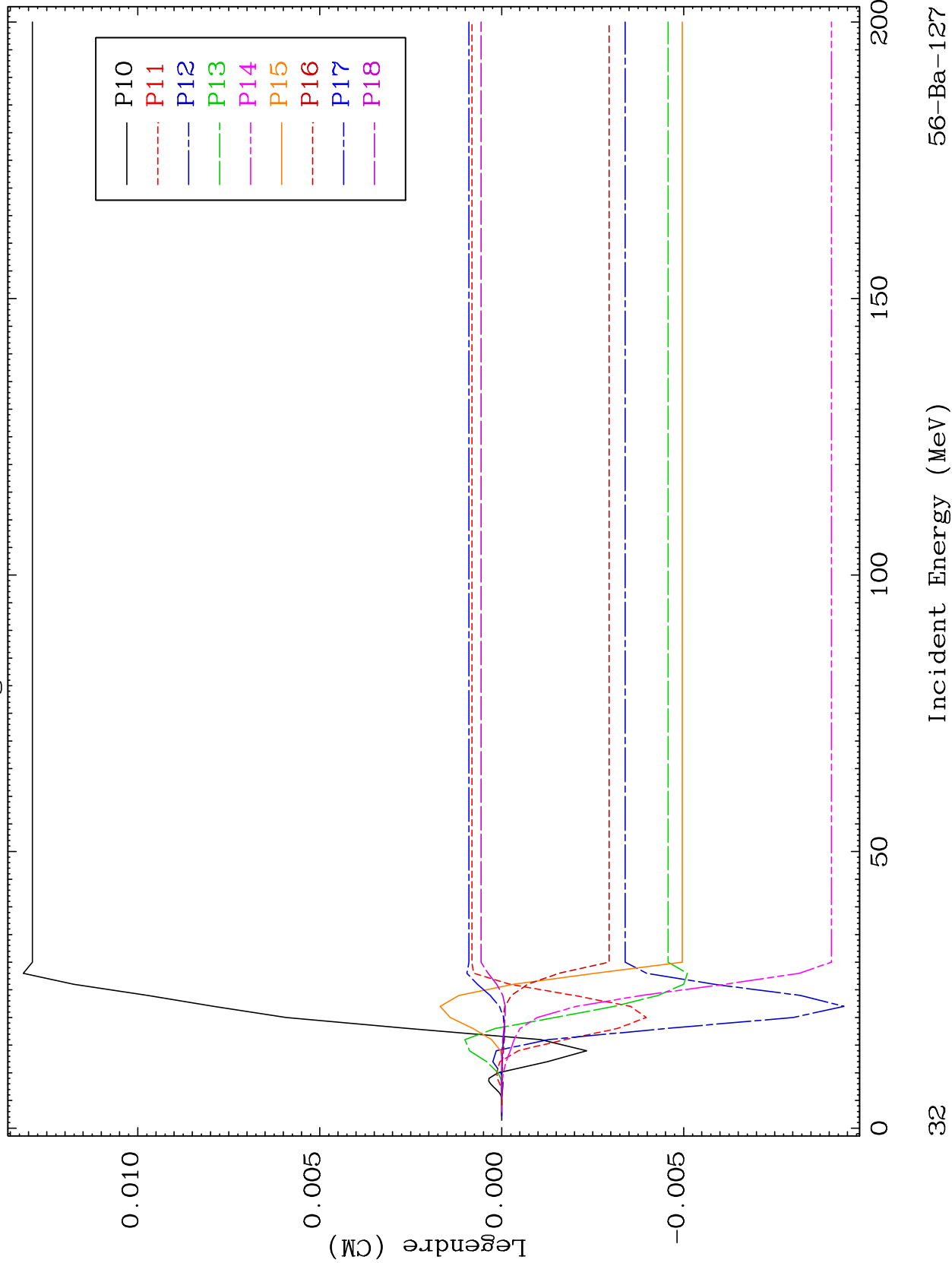
56-Ba-127



MAT 5616

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

56-Ba-127



32

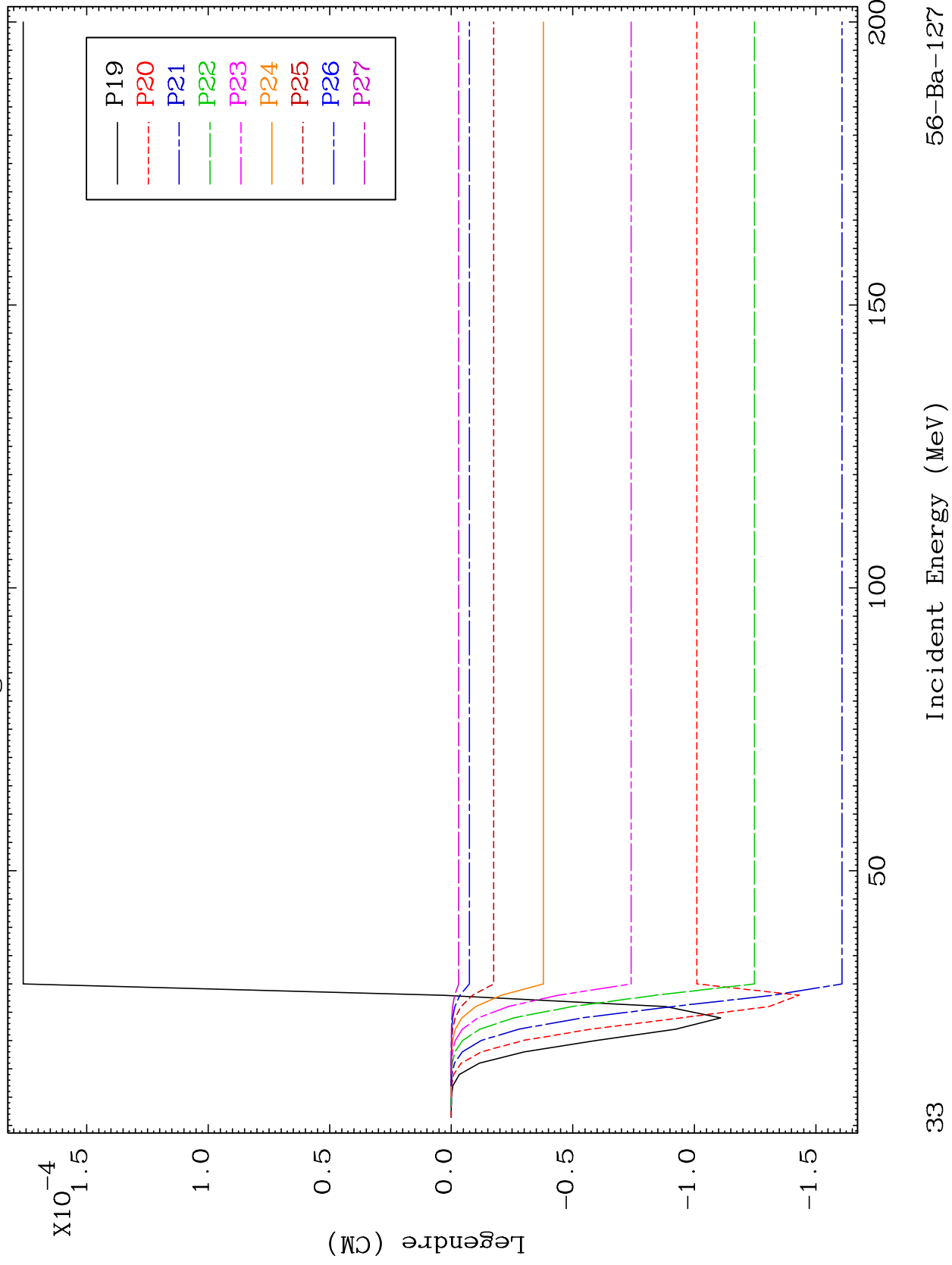
Incident Energy (MeV)

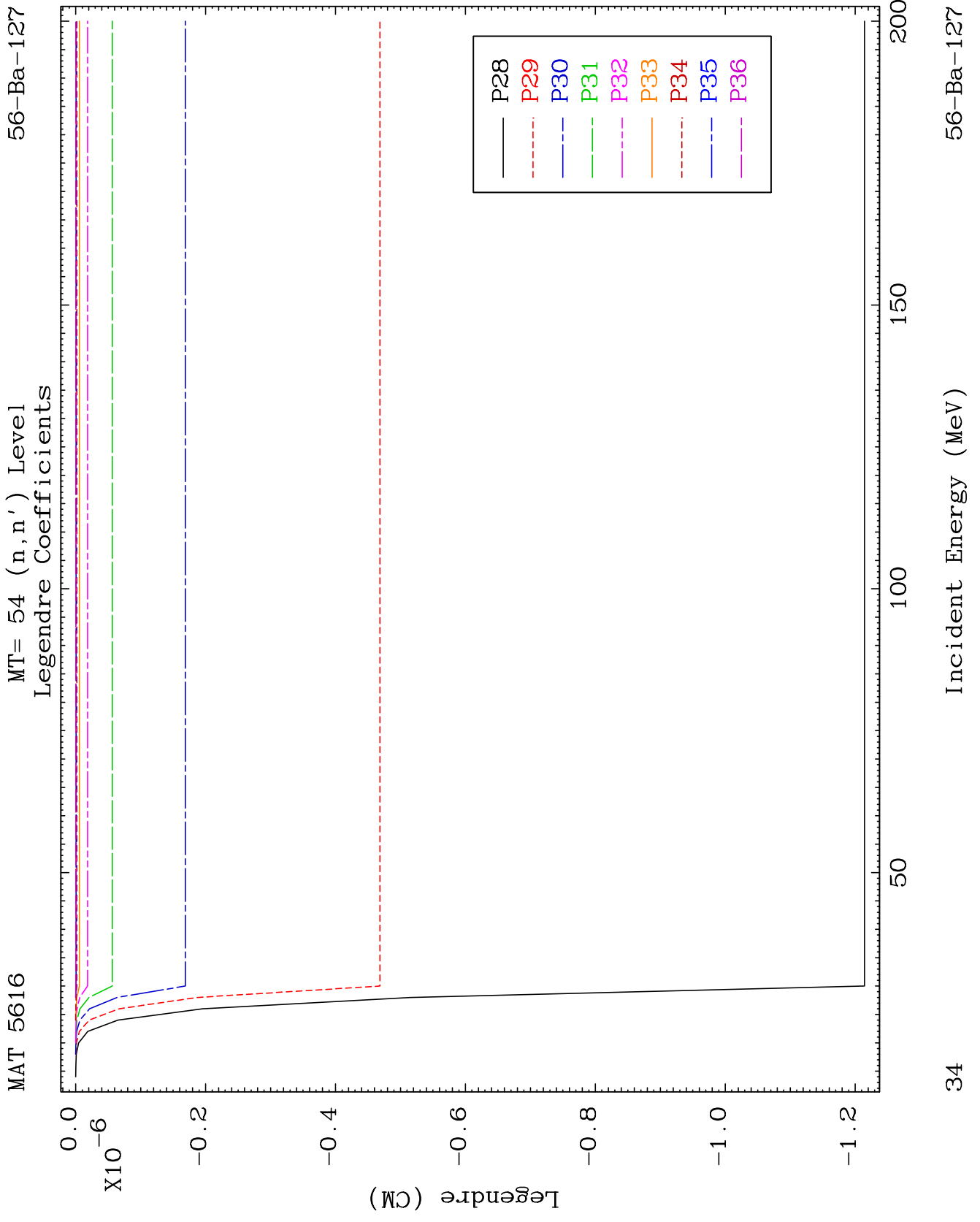
56-Ba-127

MAT 5616

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

56-Ba-127

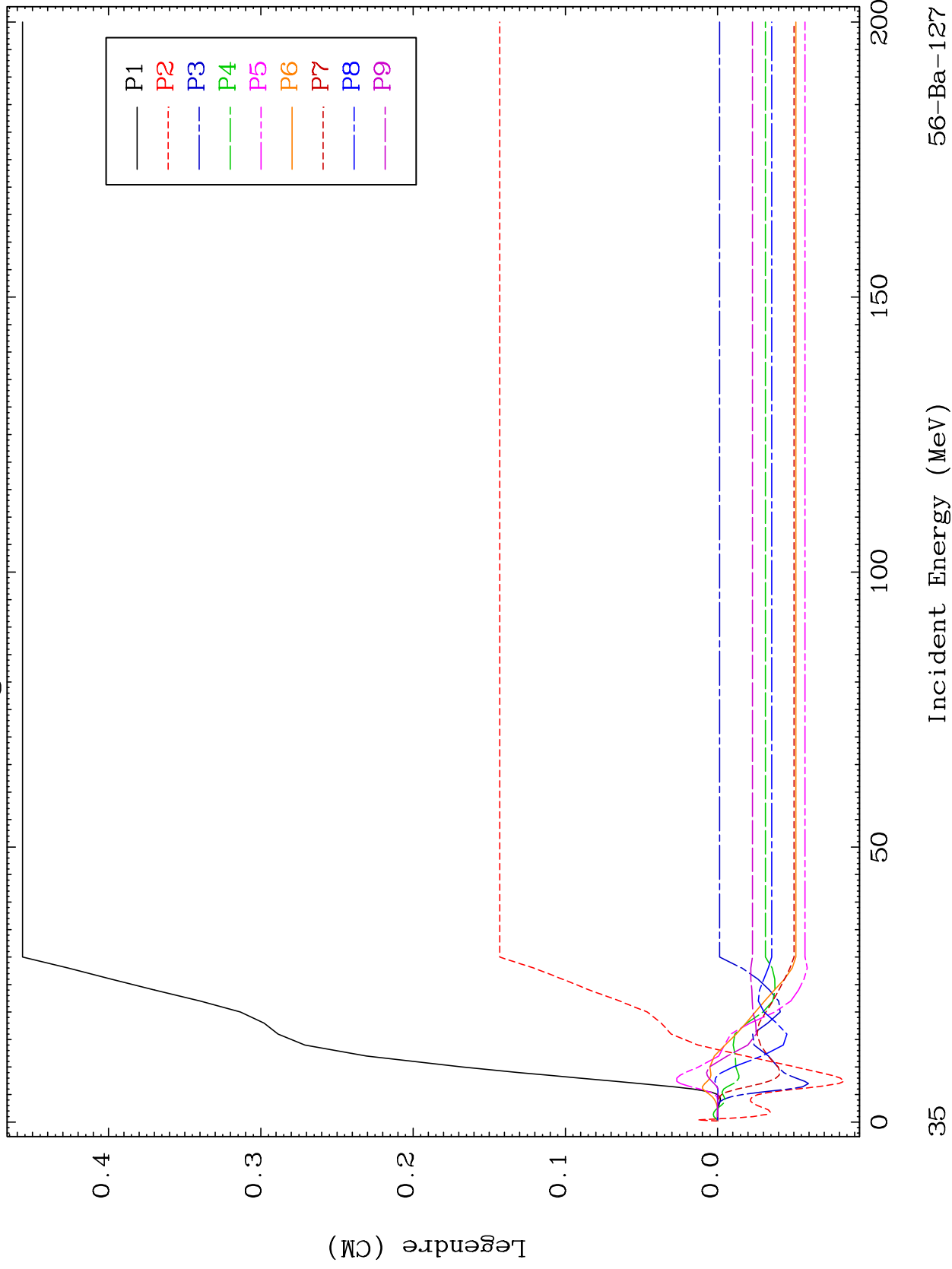




MAT 5616

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

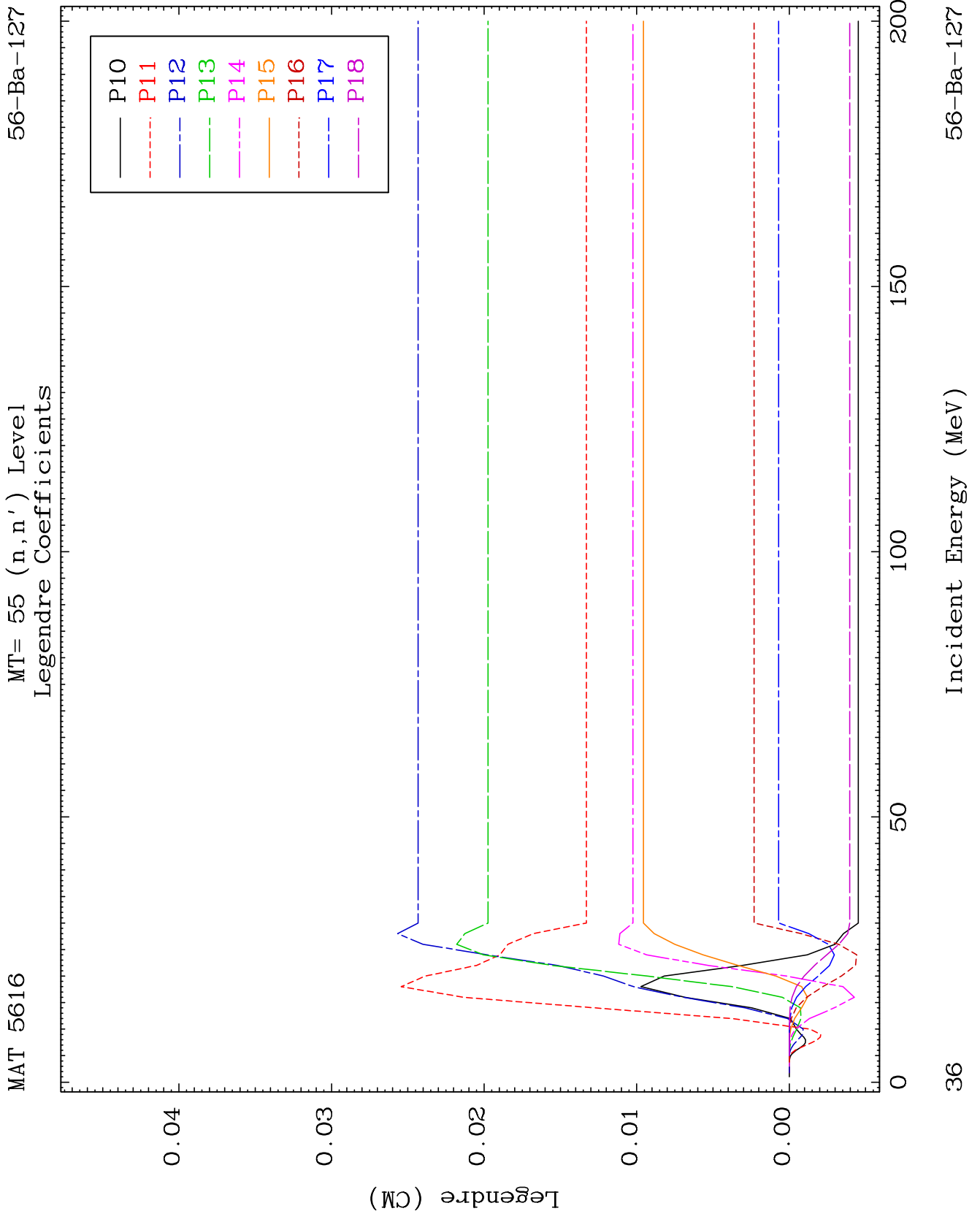
56-Ba-127



56-Ba-127

Incident Energy (MeV)

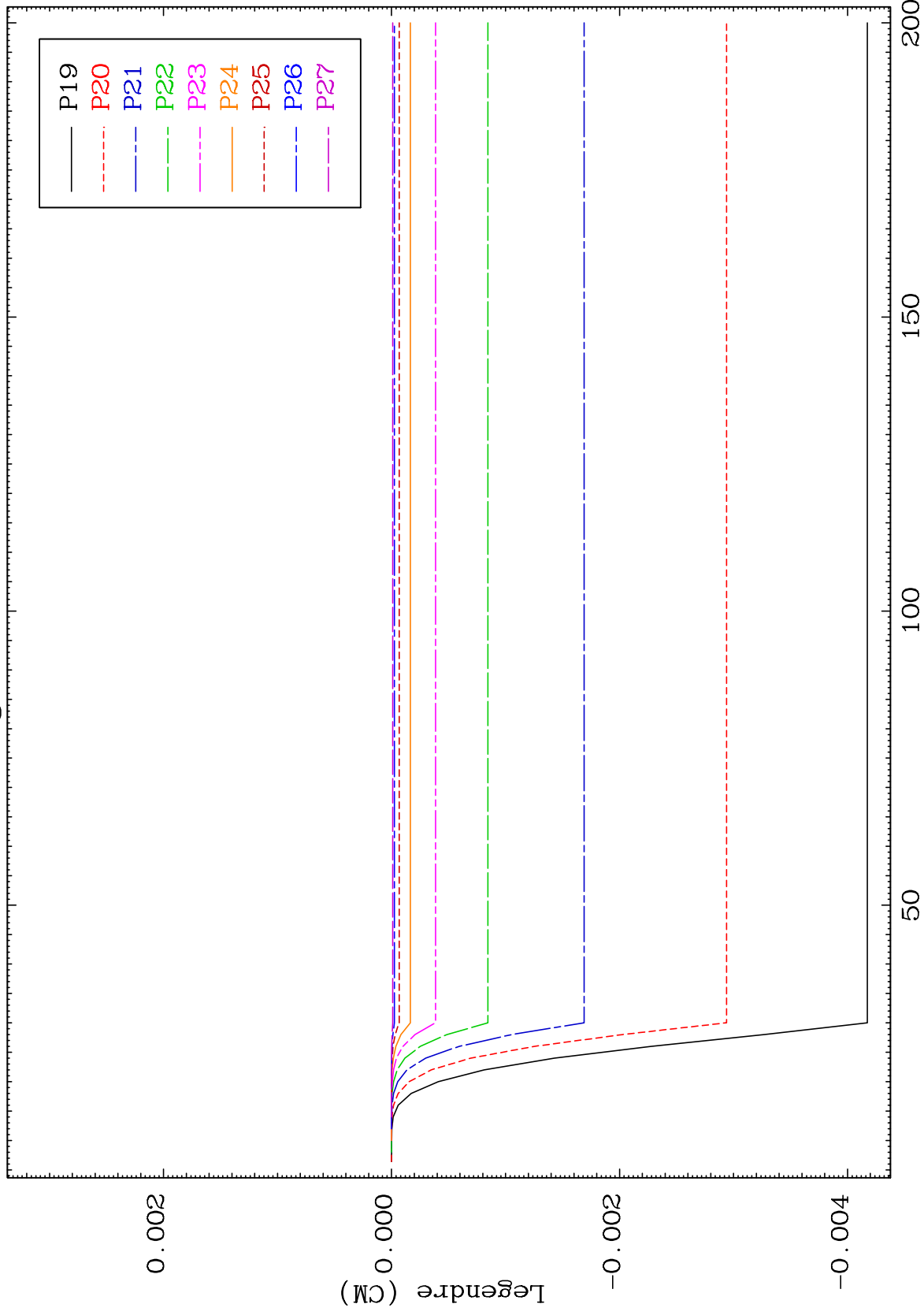
Legendre (CM)



MAT 5616

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

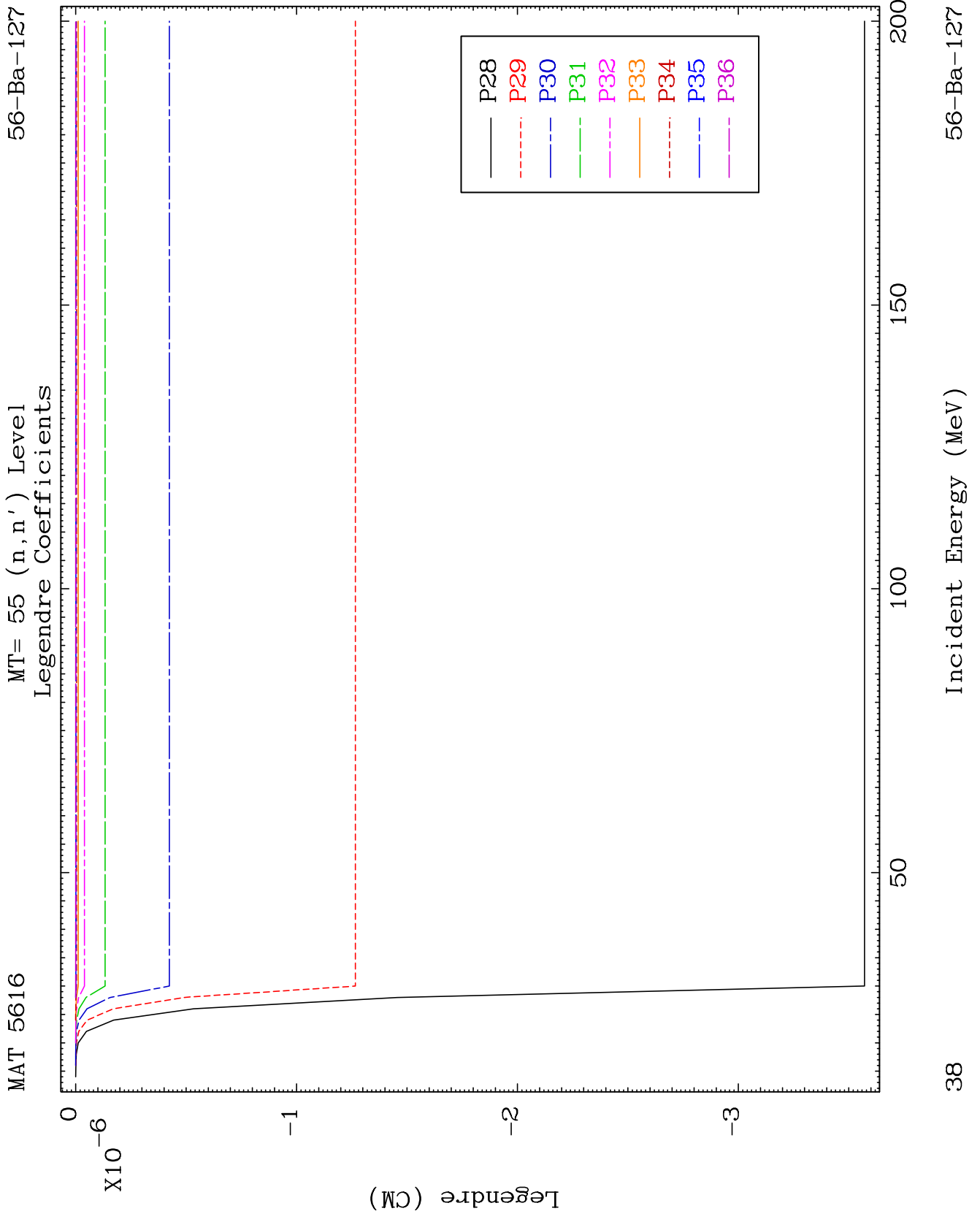
56-Ba-127



37

Incident Energy (MeV)

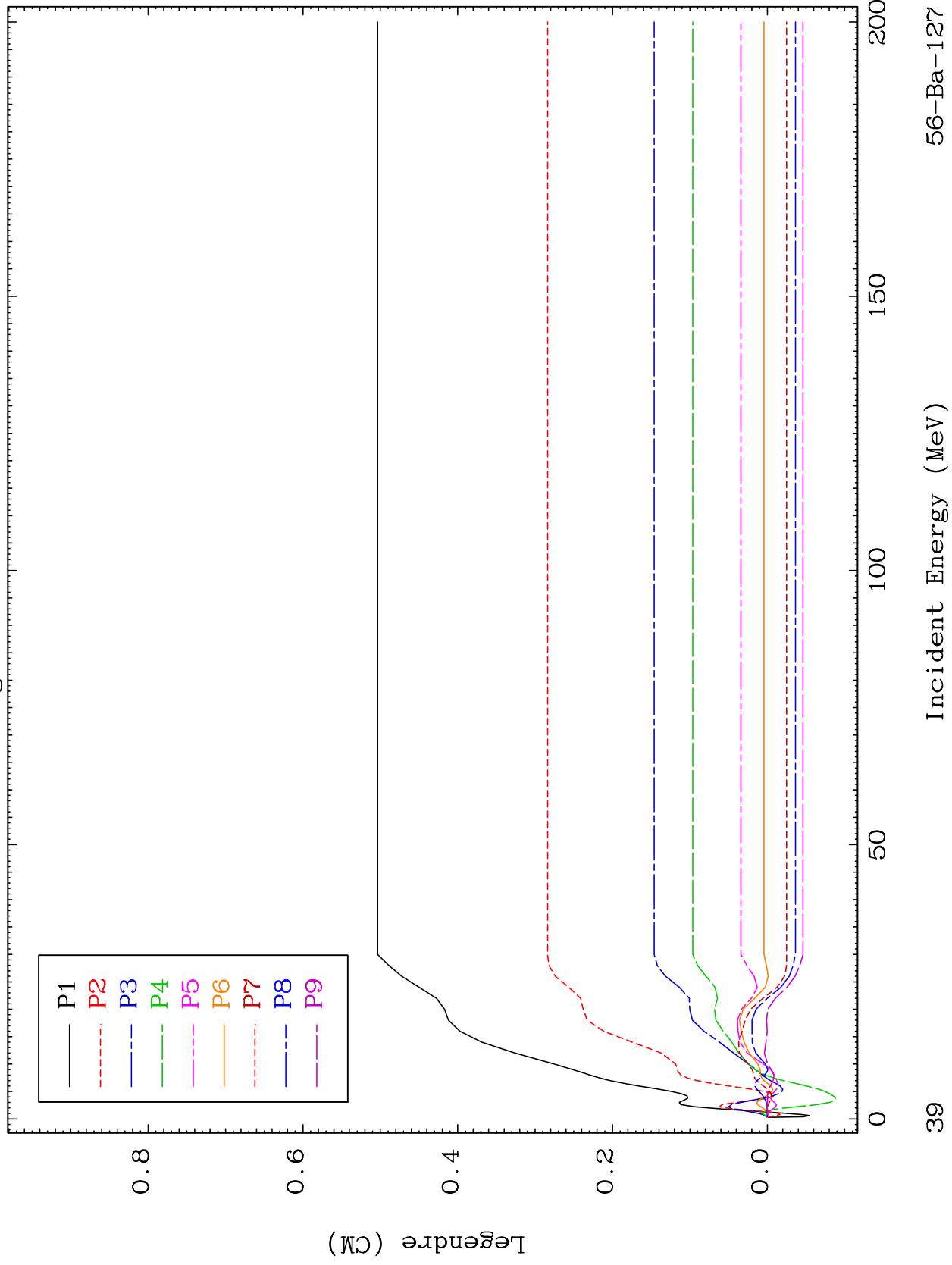
56-Ba-127



MAT 5616

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

56-Ba-127

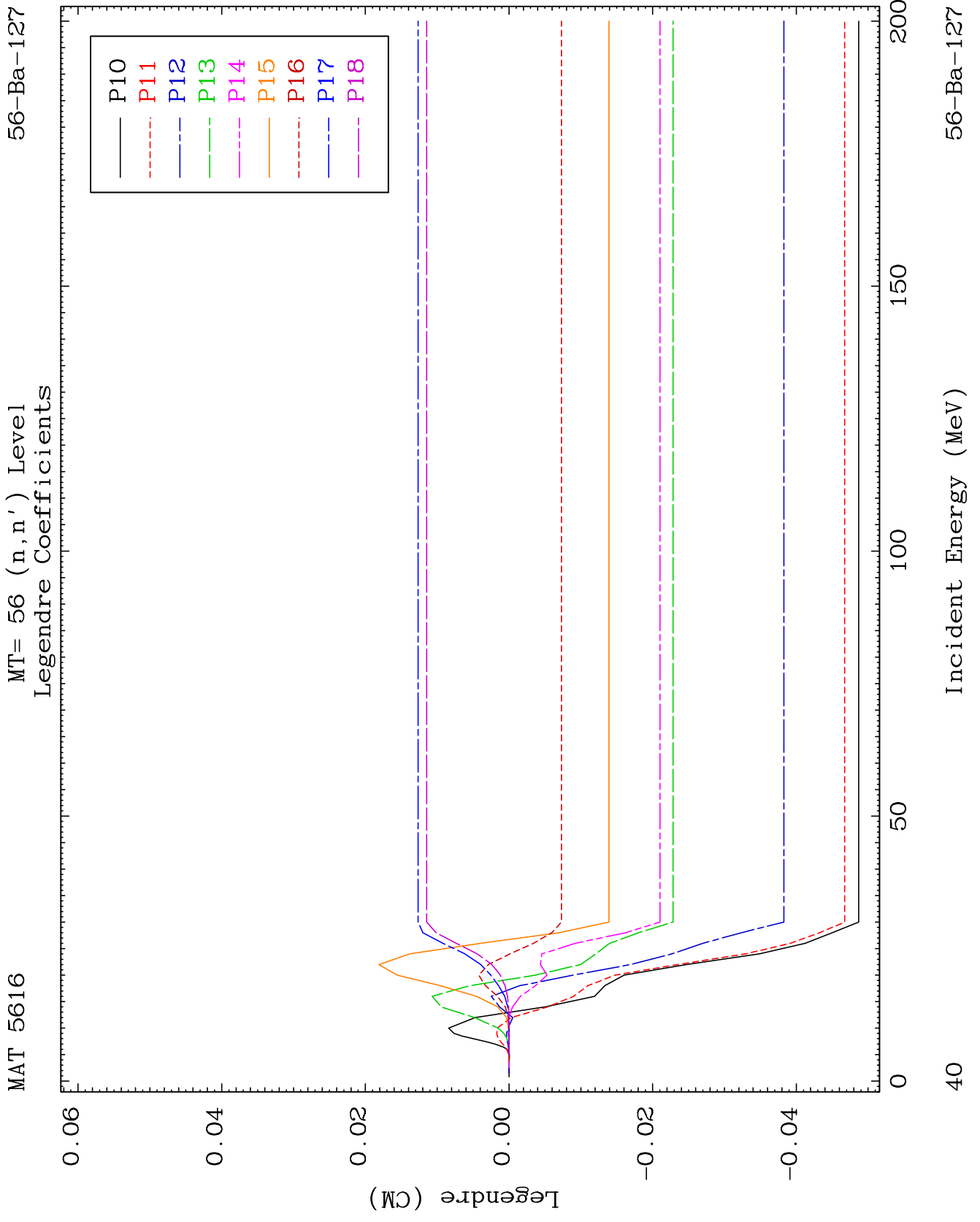


39

Incident Energy (MeV)

56-Ba-127

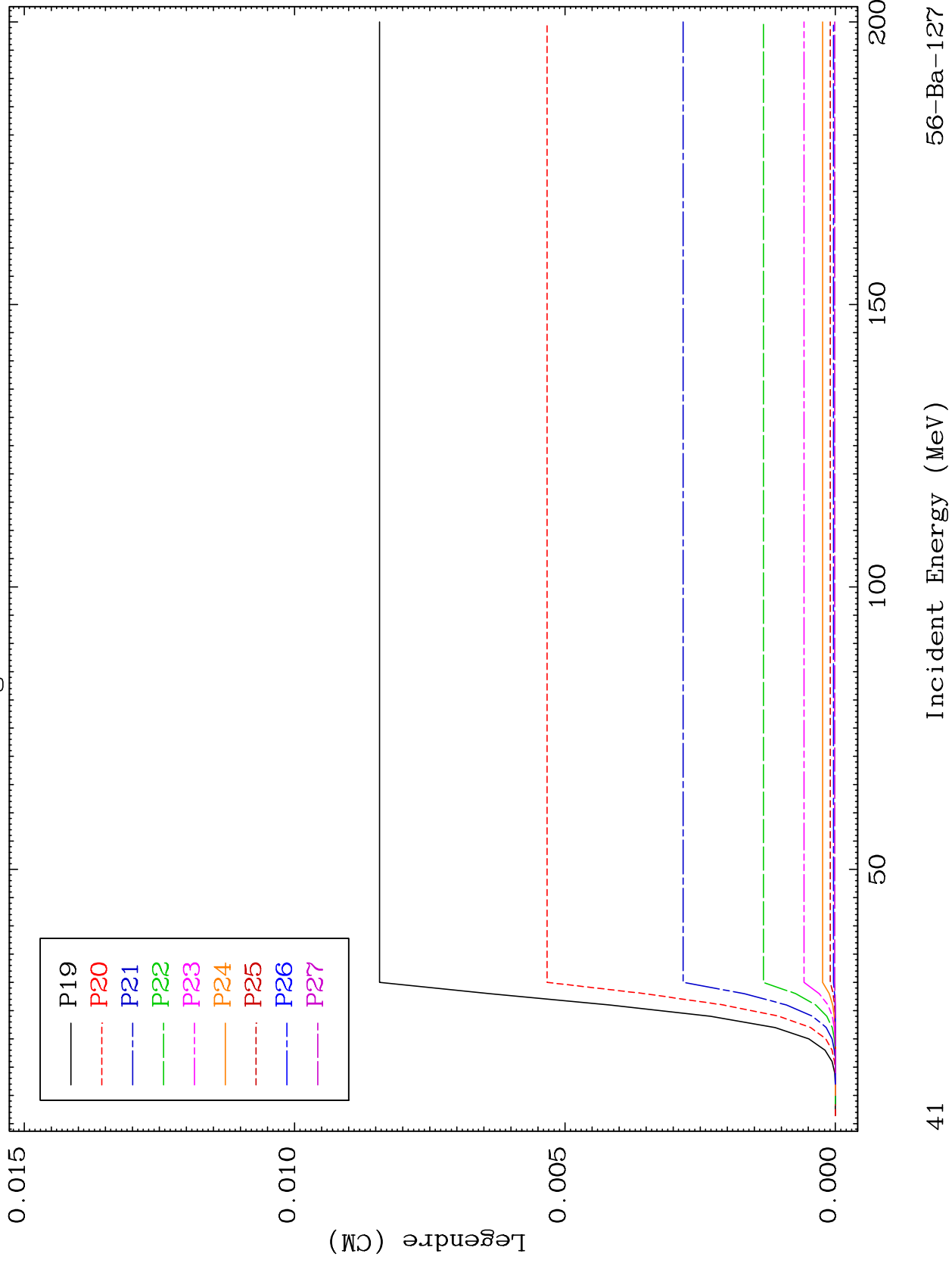




MAT 5616

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

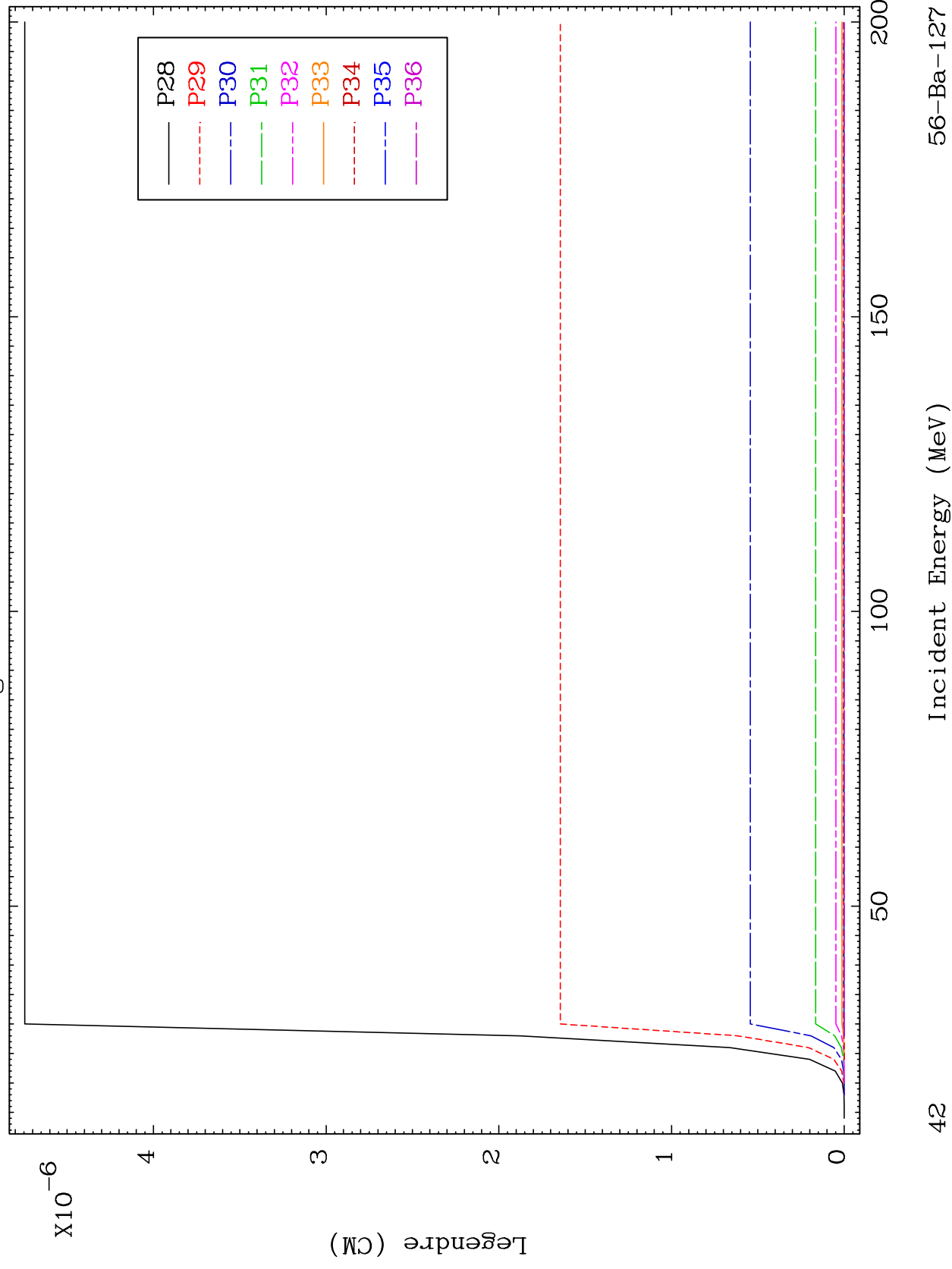
56-Ba-127



MAT 5616

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

56-Ba-127



42

Incident Energy (MeV)

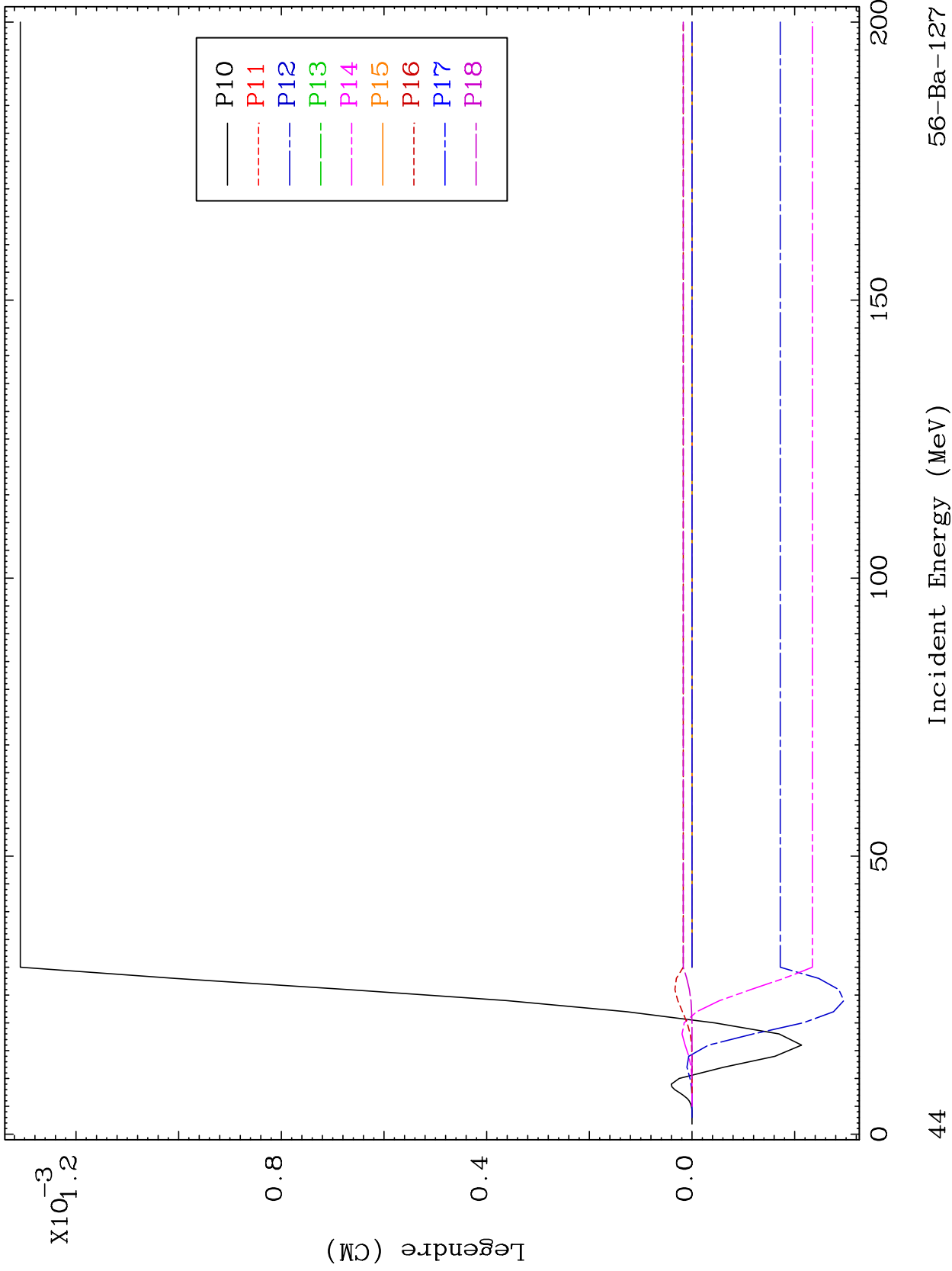
56-Ba-127



MAT 5616

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

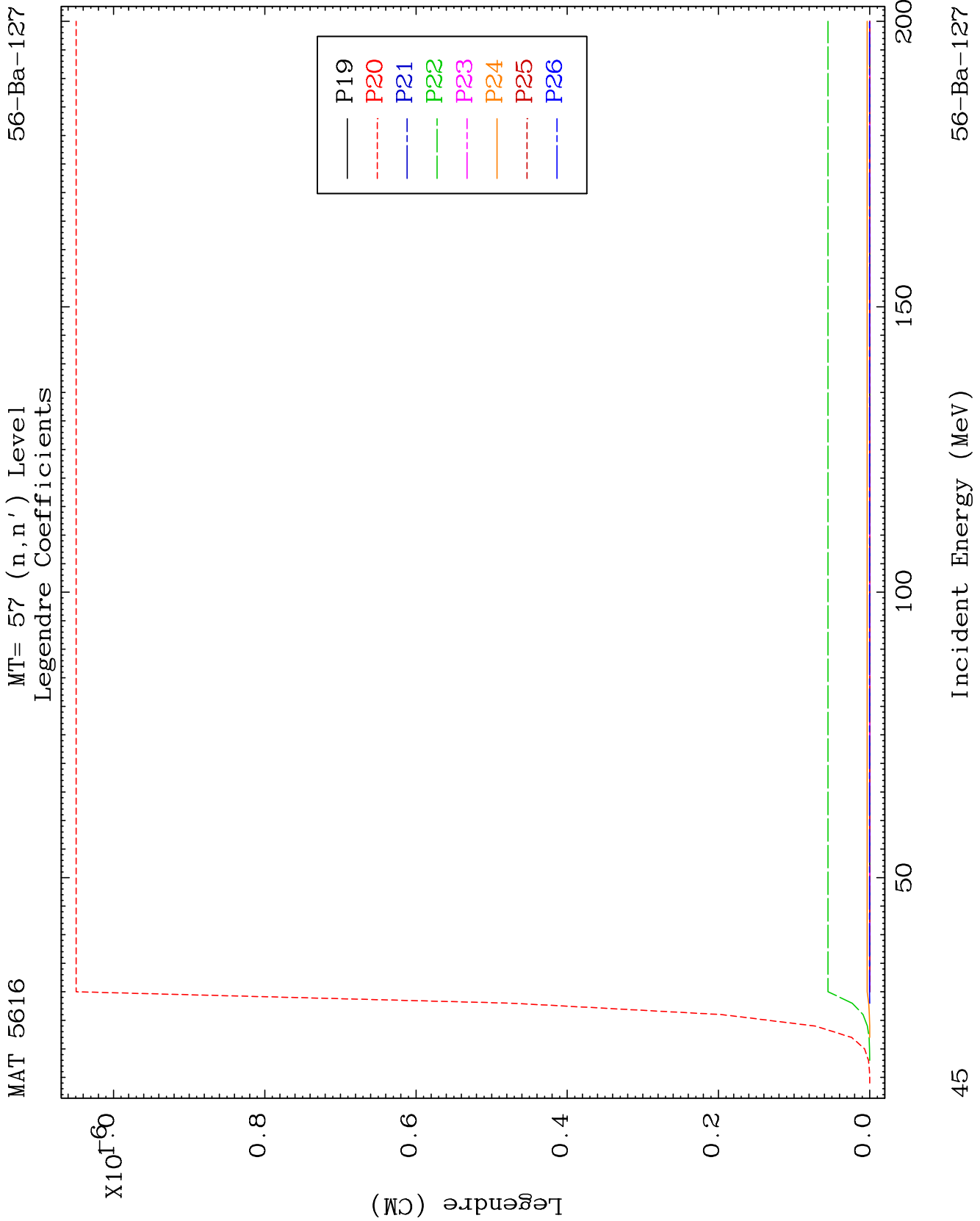
56-Ba-127



44

Incident Energy (MeV)

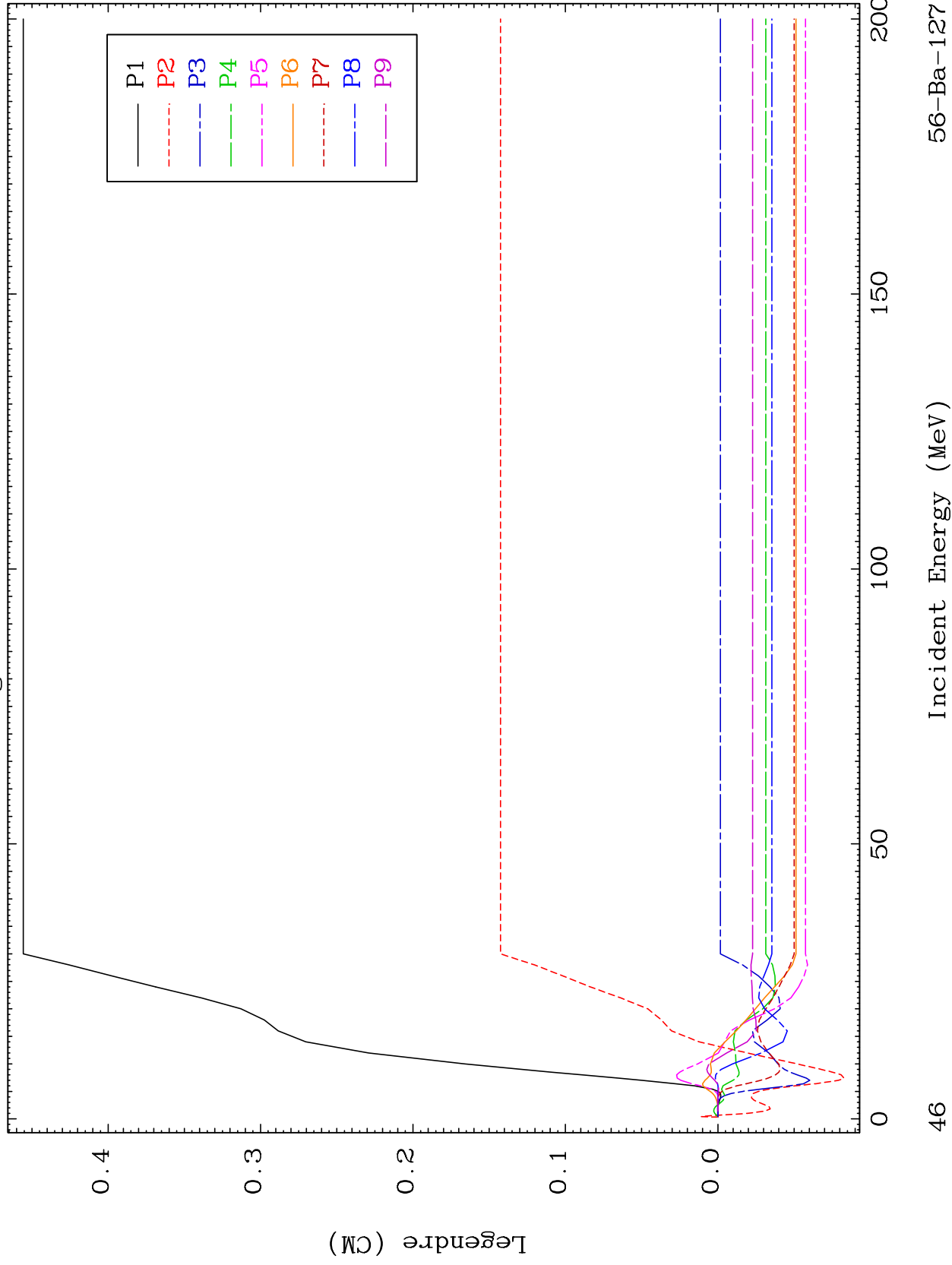
56-Ba-127



MAT 5616

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

56-Ba-127



46

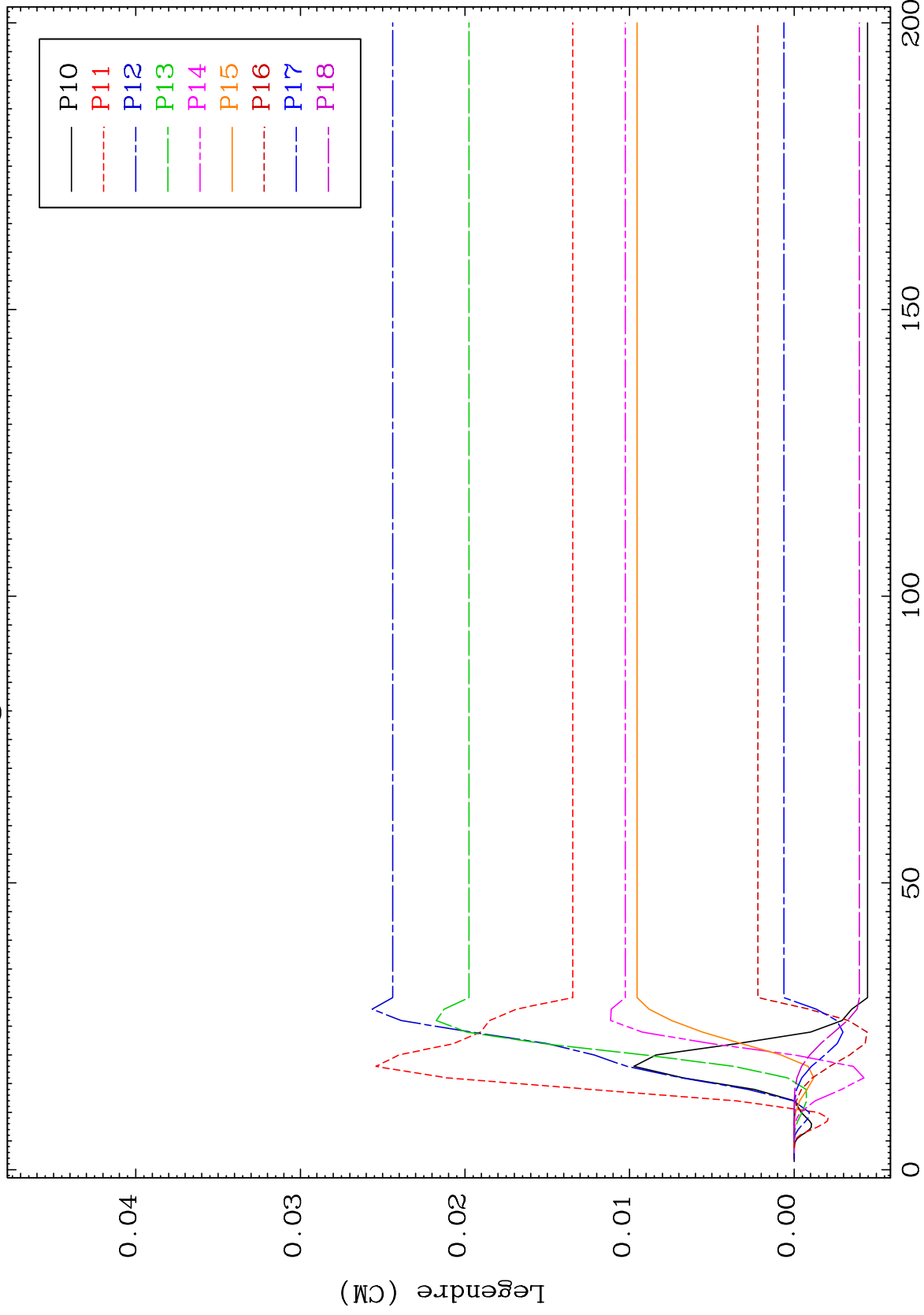
Incident Energy (MeV)

56-Ba-127

MAT 5616

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

56-Ba-127



47

Incident Energy (MeV)

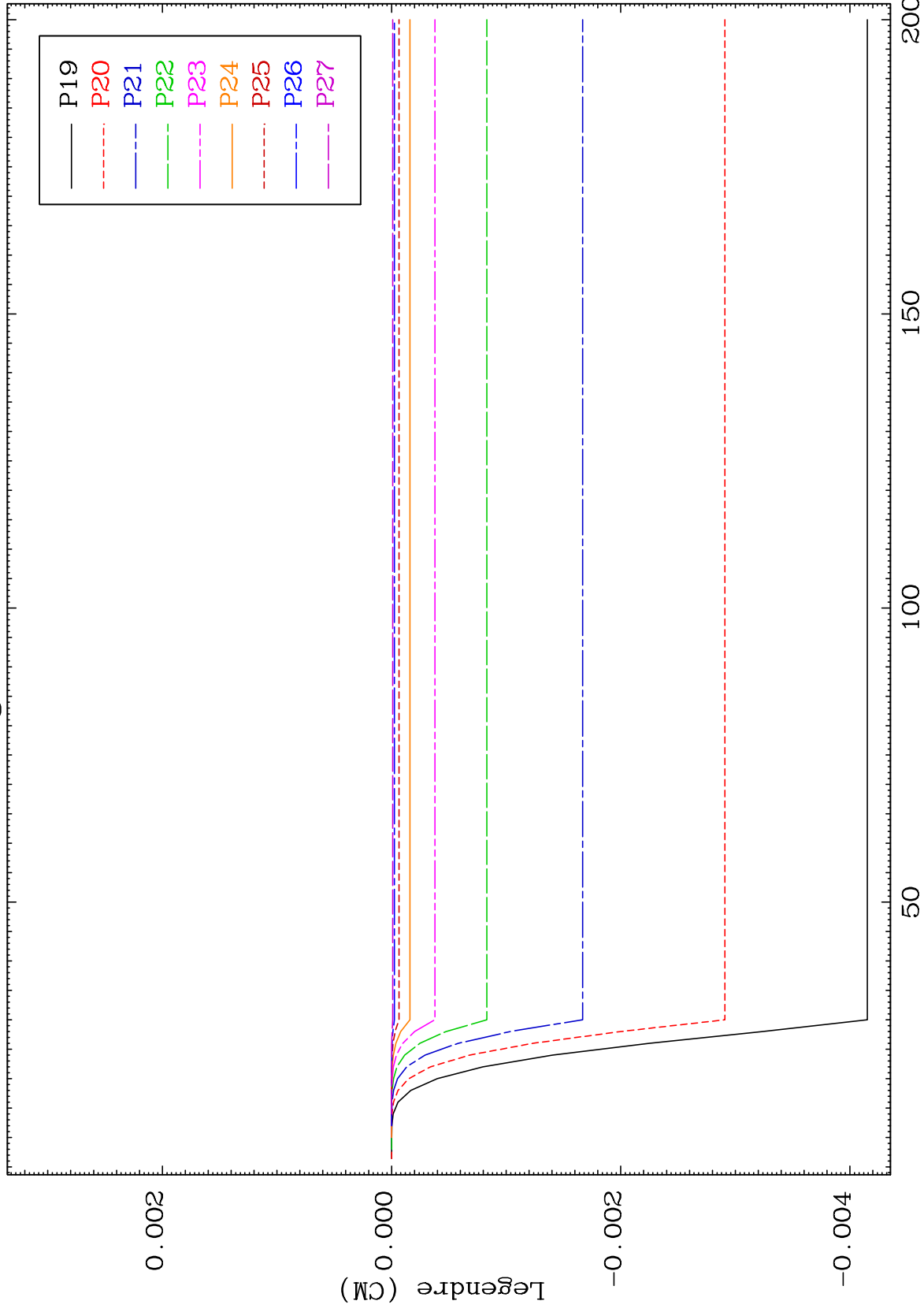
56-Ba-127



MAT 5616

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

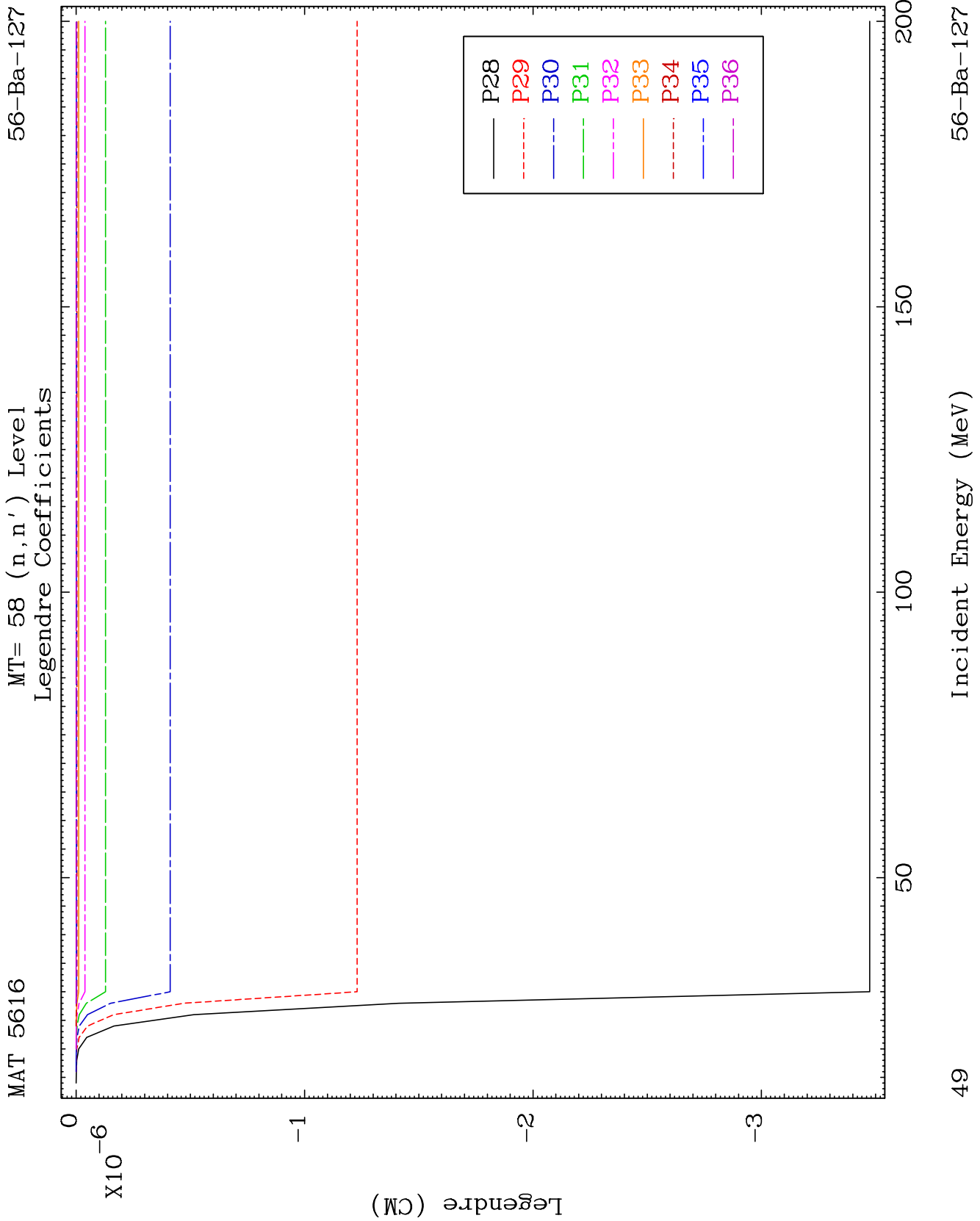
56-Ba-127



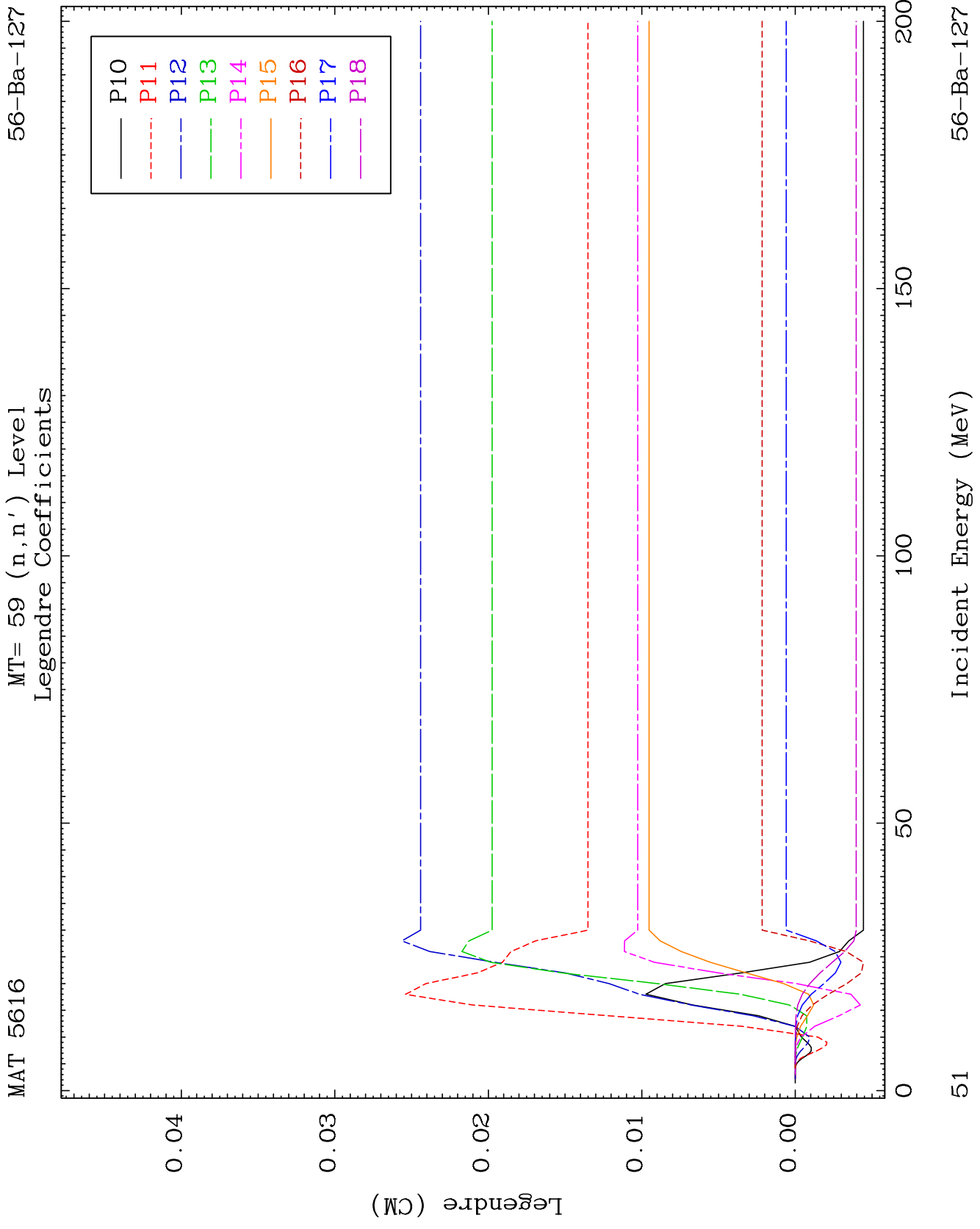
48

Incident Energy (MeV)

56-Ba-127



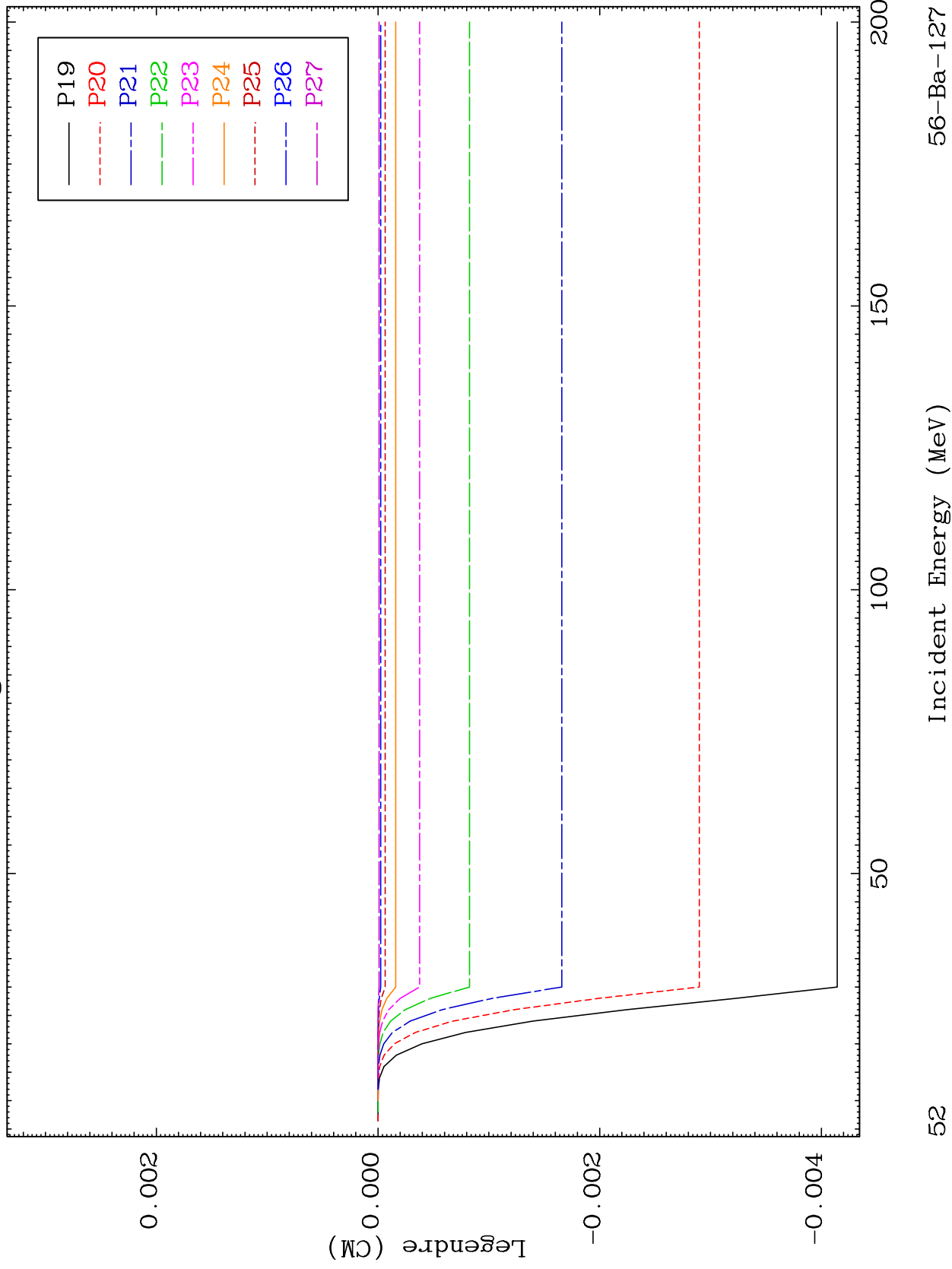




MAT 5616

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

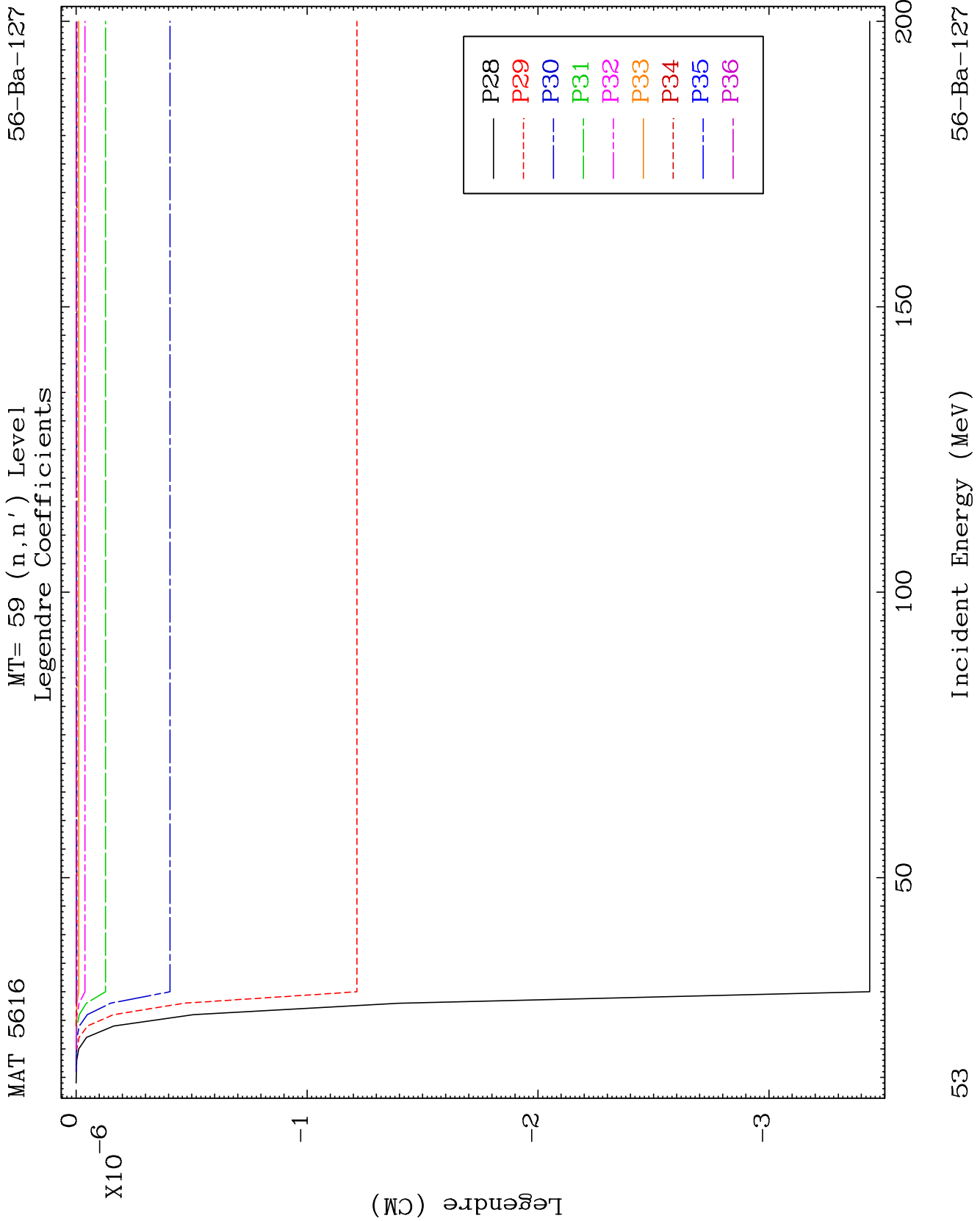
56-Ba-127



52

Incident Energy (MeV)

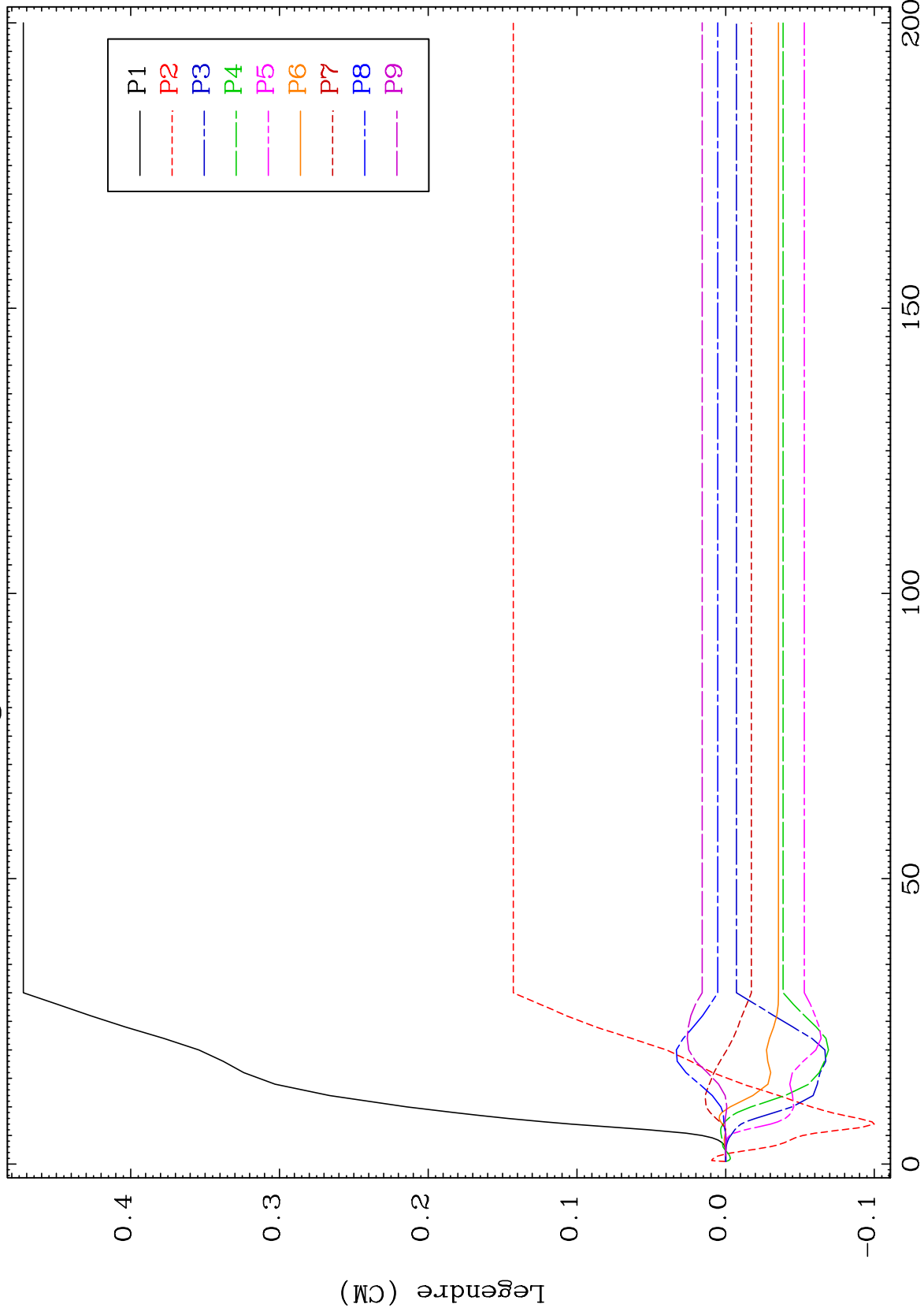
56-Ba-127



MAT 5616

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

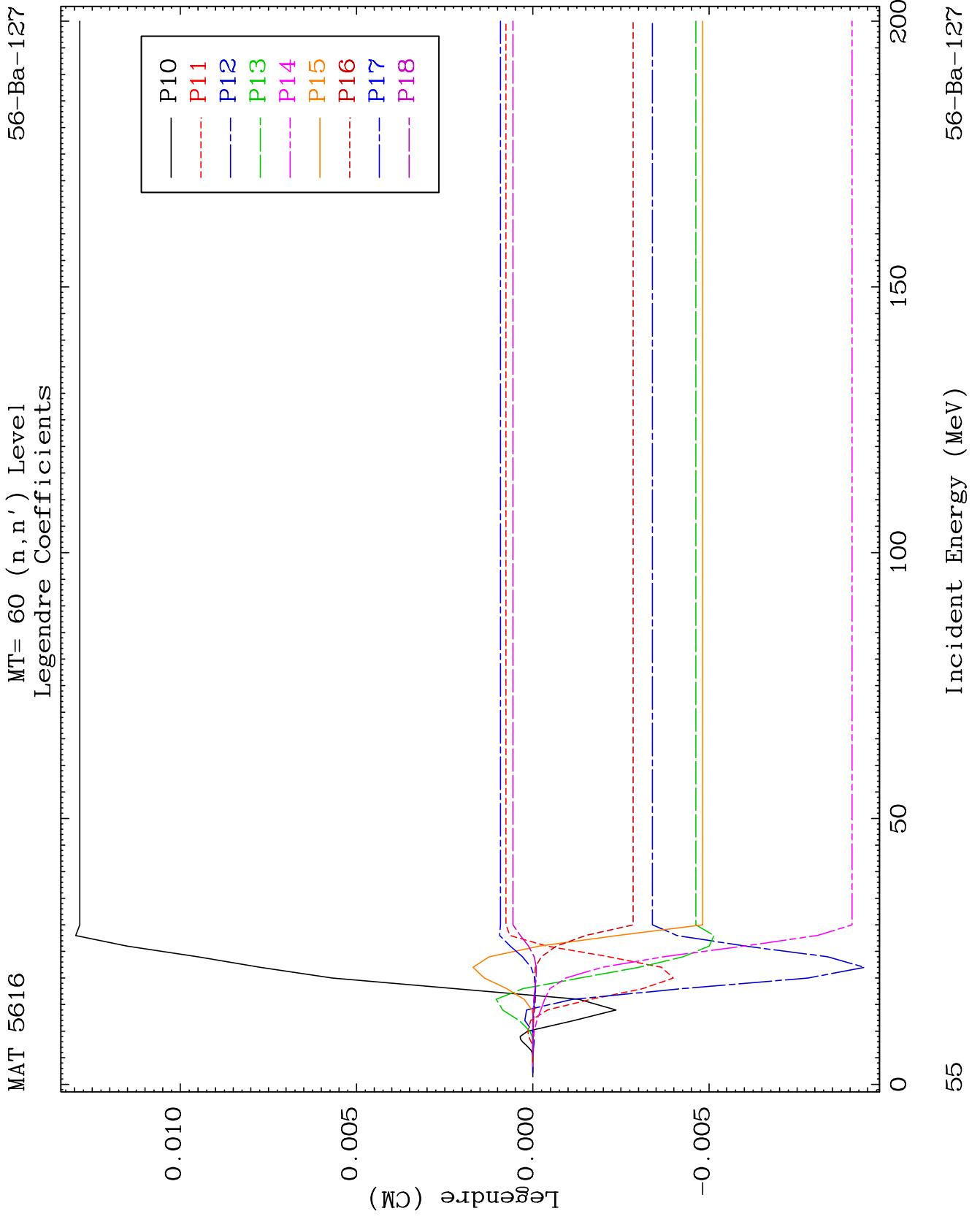
56-Ba-127



54

Incident Energy (MeV)

56-Ba-127

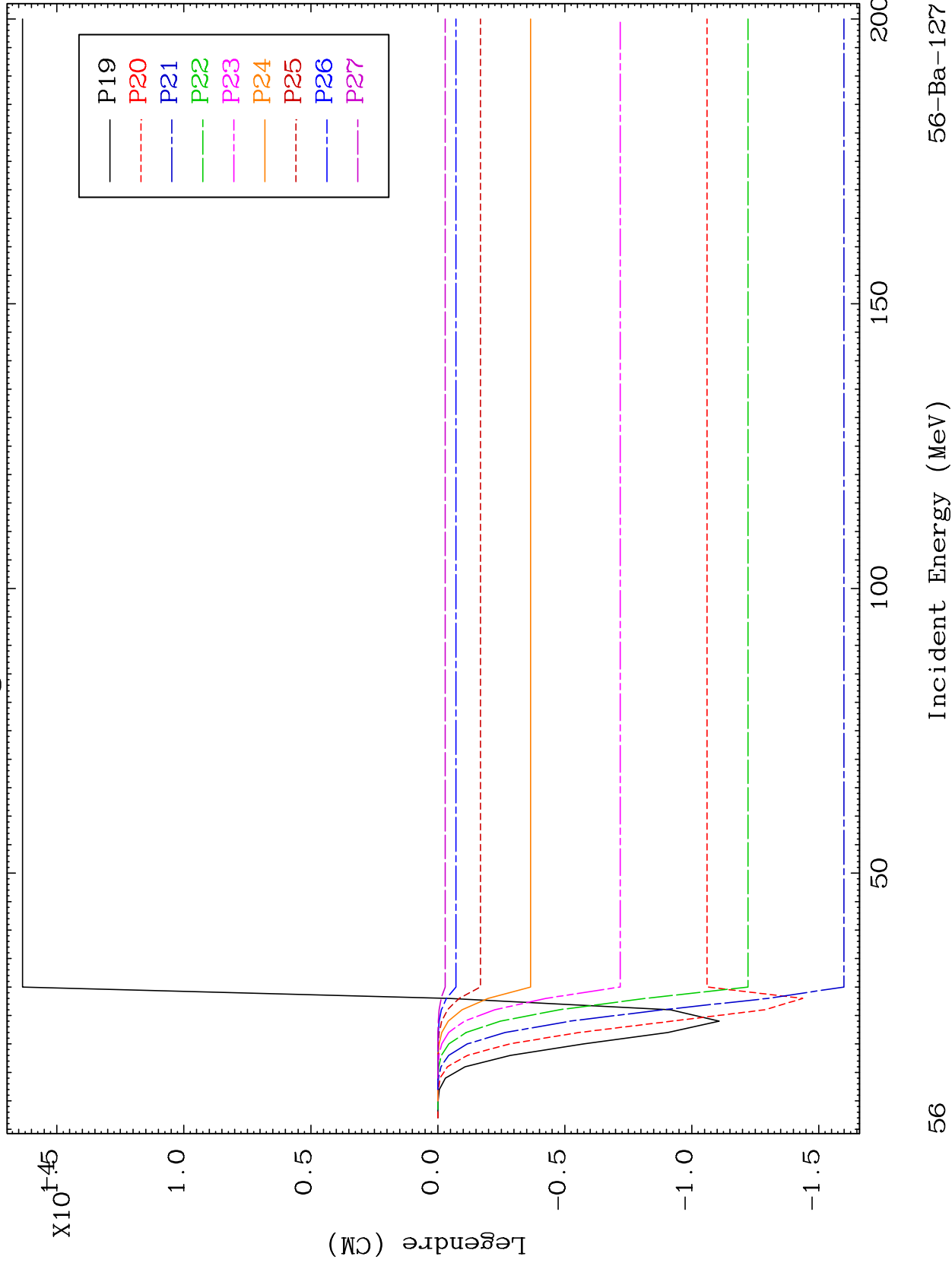




MAT 5616

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

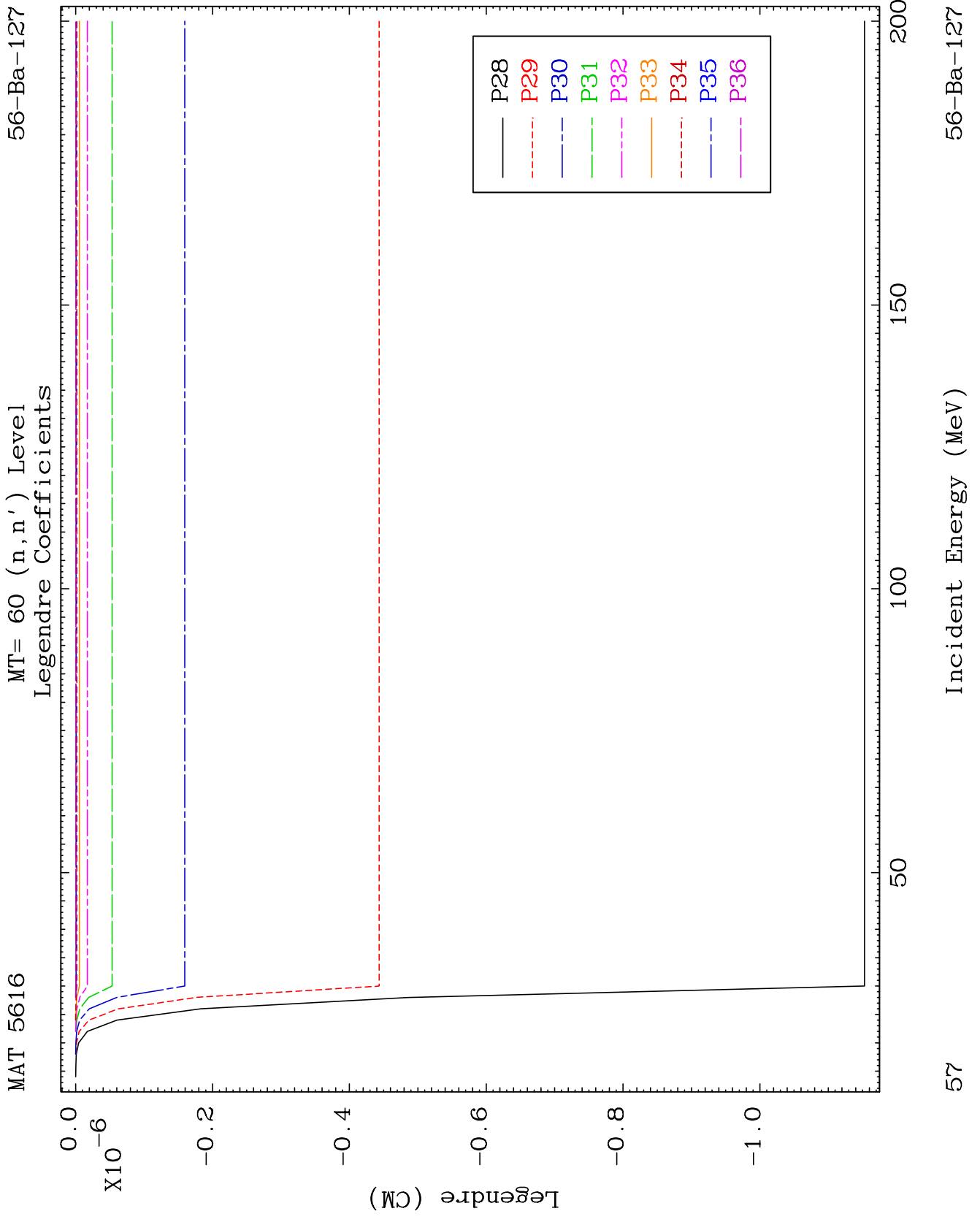
56-Ba-127



56

Incident Energy (MeV)

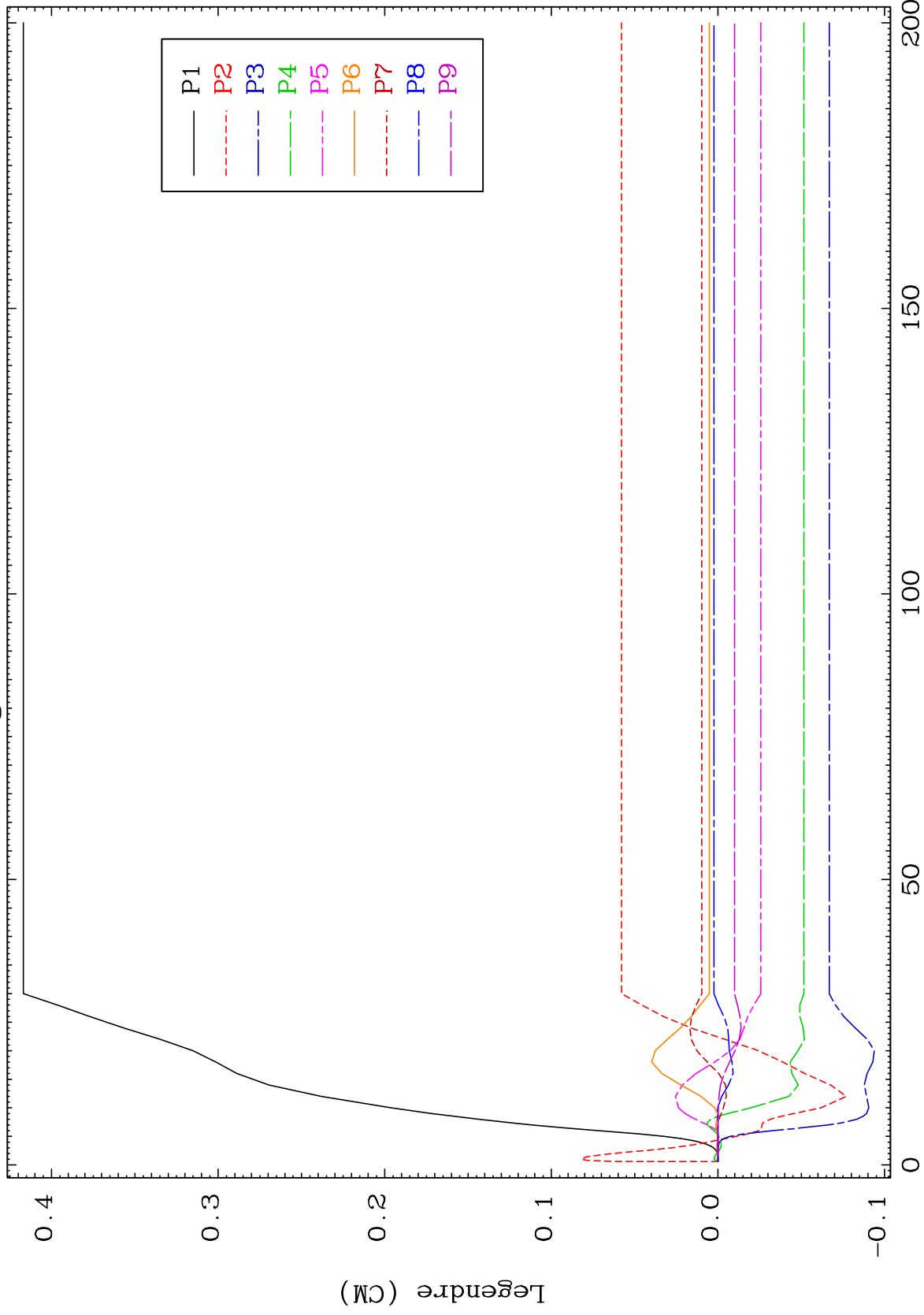
56-Ba-127



MAT 5616

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

56-Ba-127

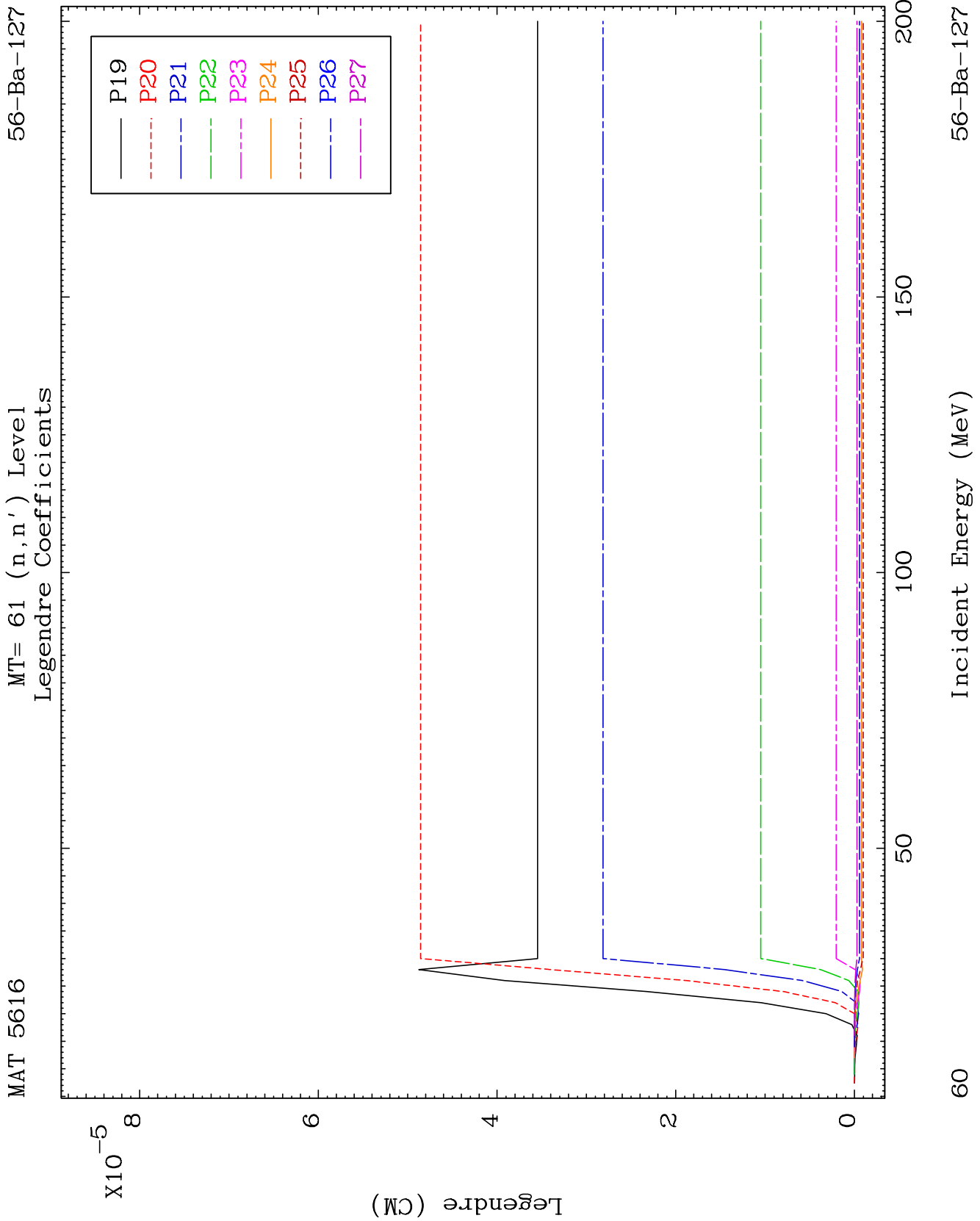


58

Incident Energy (MeV)

56-Ba-127



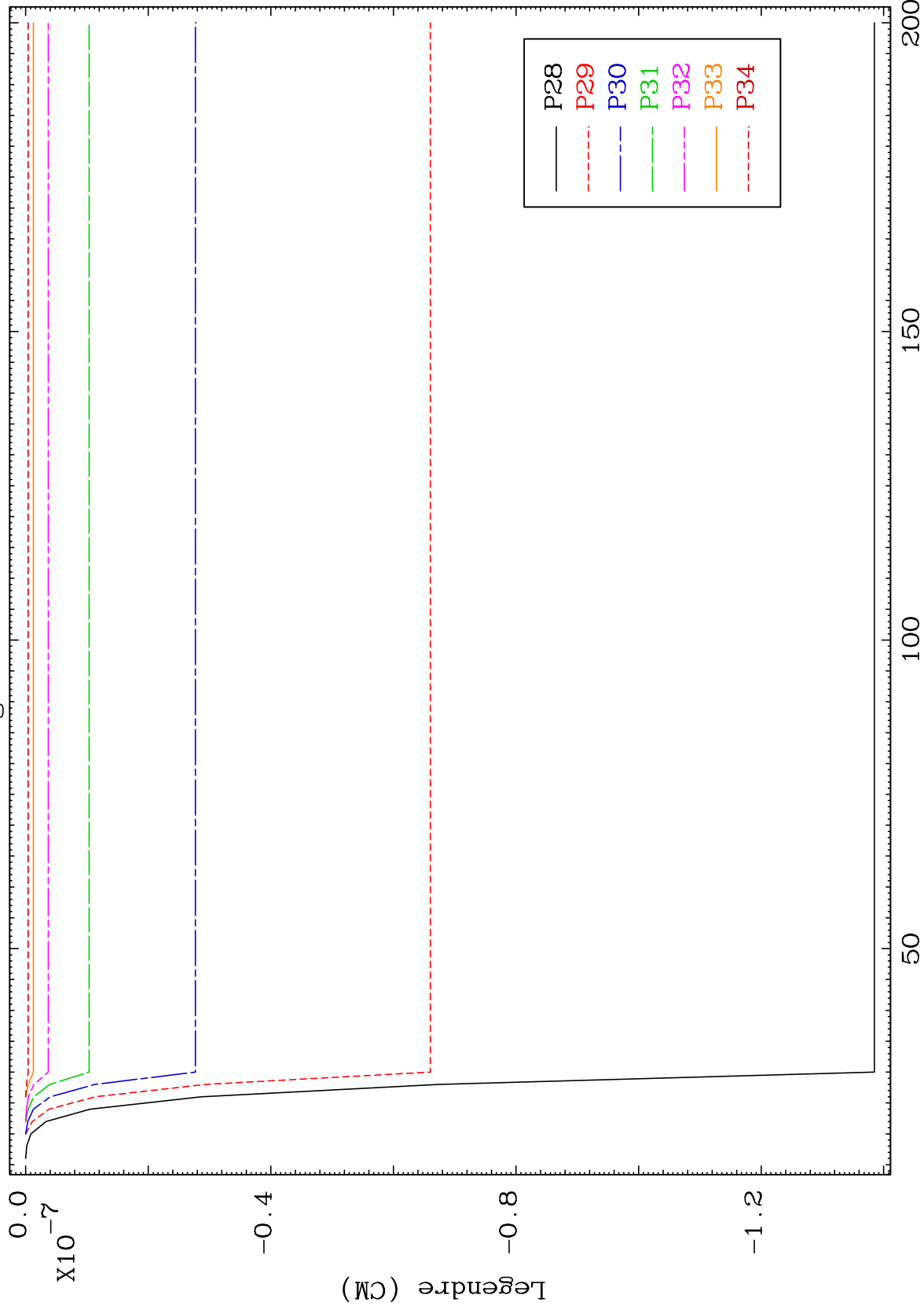


MAT 5616

MT= 61 (n,n') Level

56-Ba-127

Legendre Coefficients



56-Ba-127

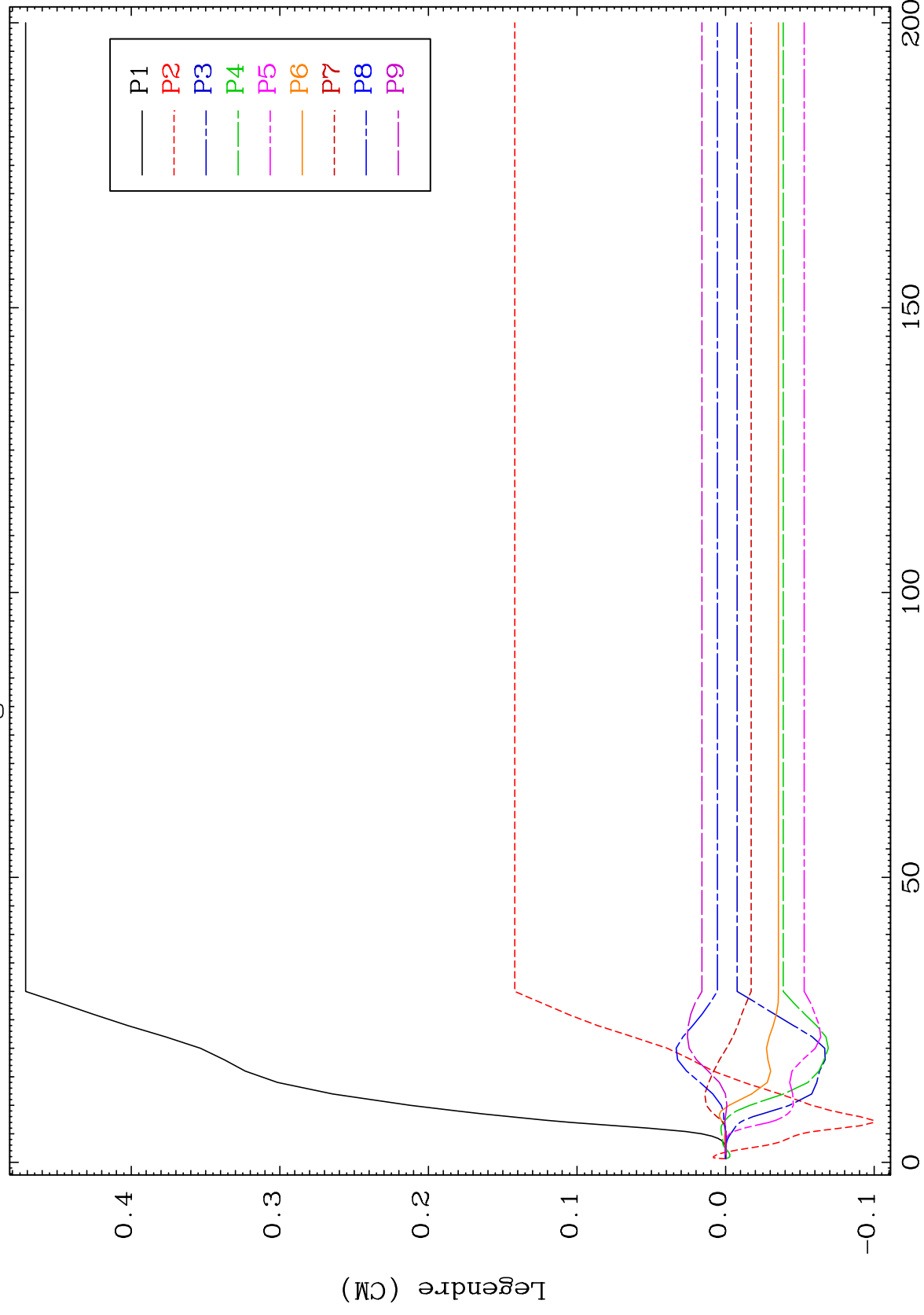
Incident Energy (MeV)

61

MAT 5616

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

56-Ba-127



62

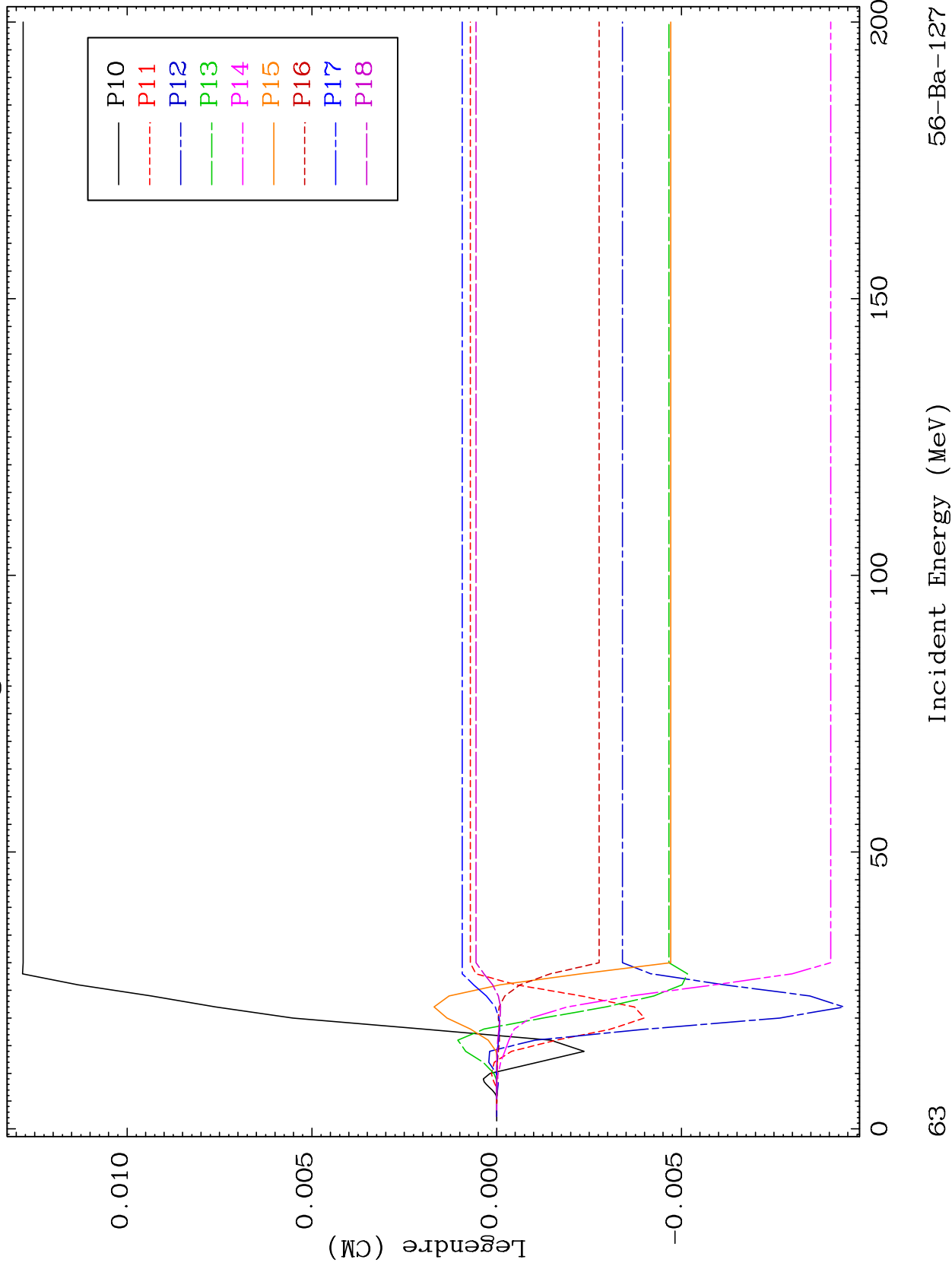
Incident Energy (MeV)

56-Ba-127

MAT 5616

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

56-Ba-127



56-Ba-127

Incident Energy (MeV)

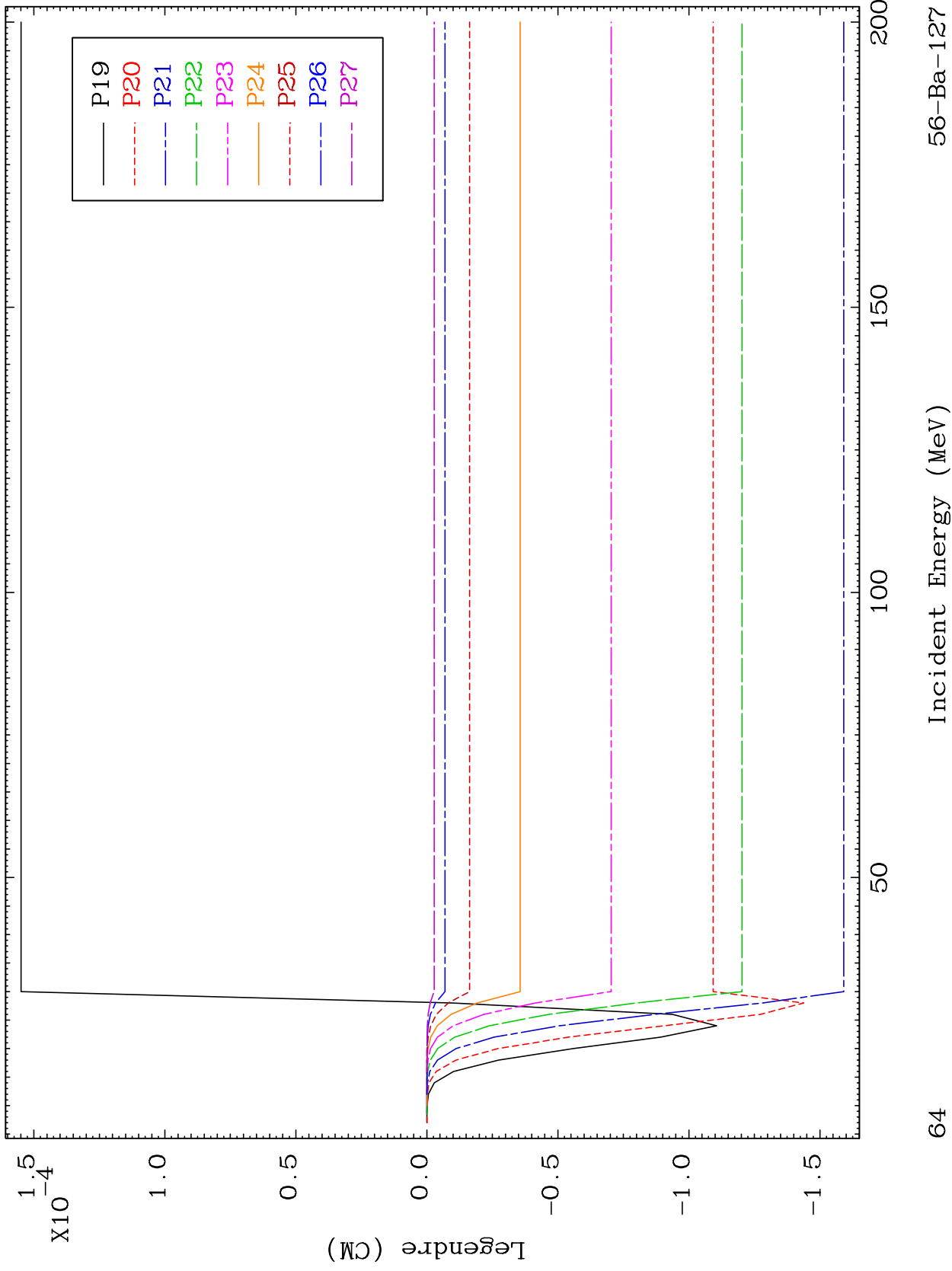
63

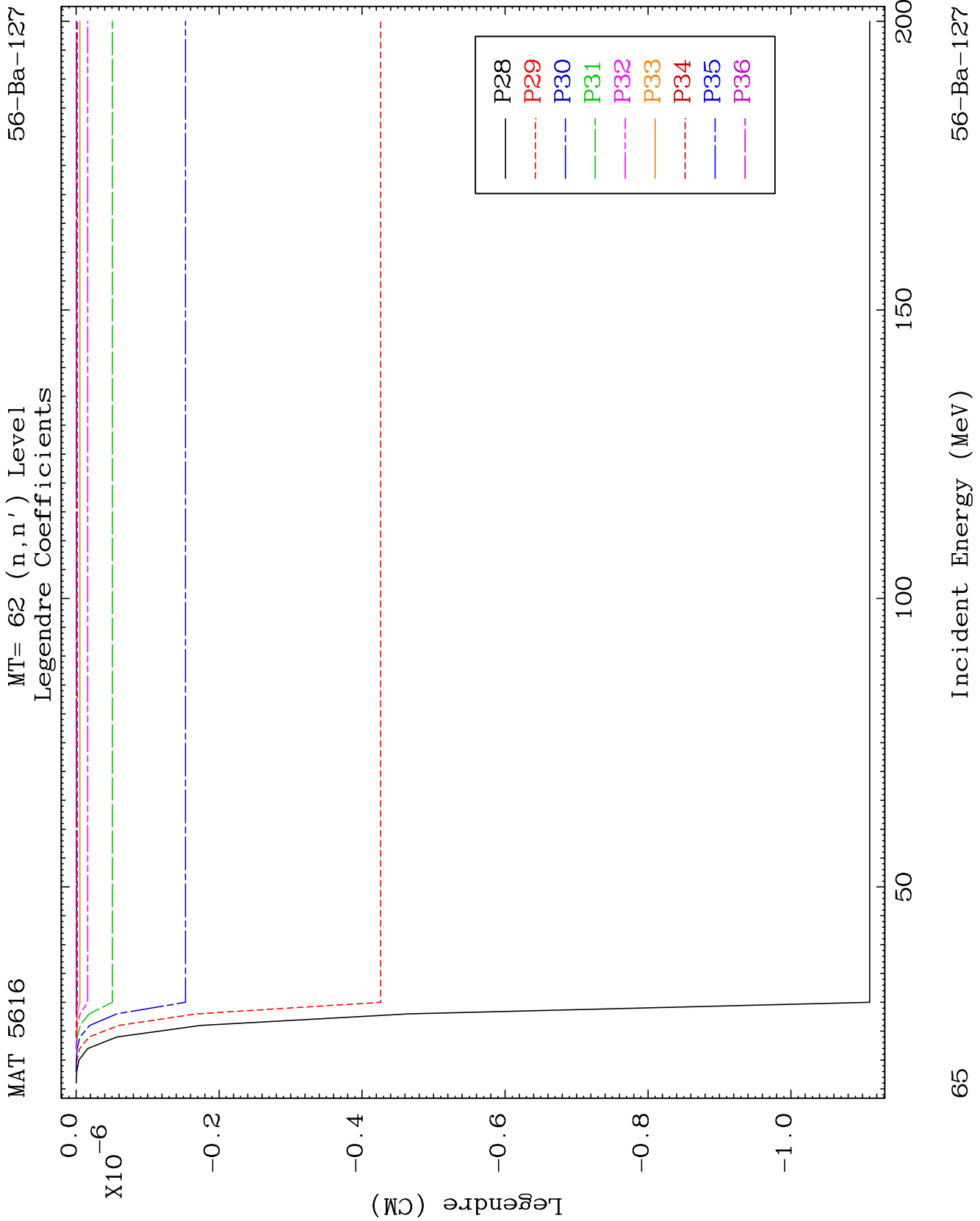


MAT 5616

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

56-Ba-127

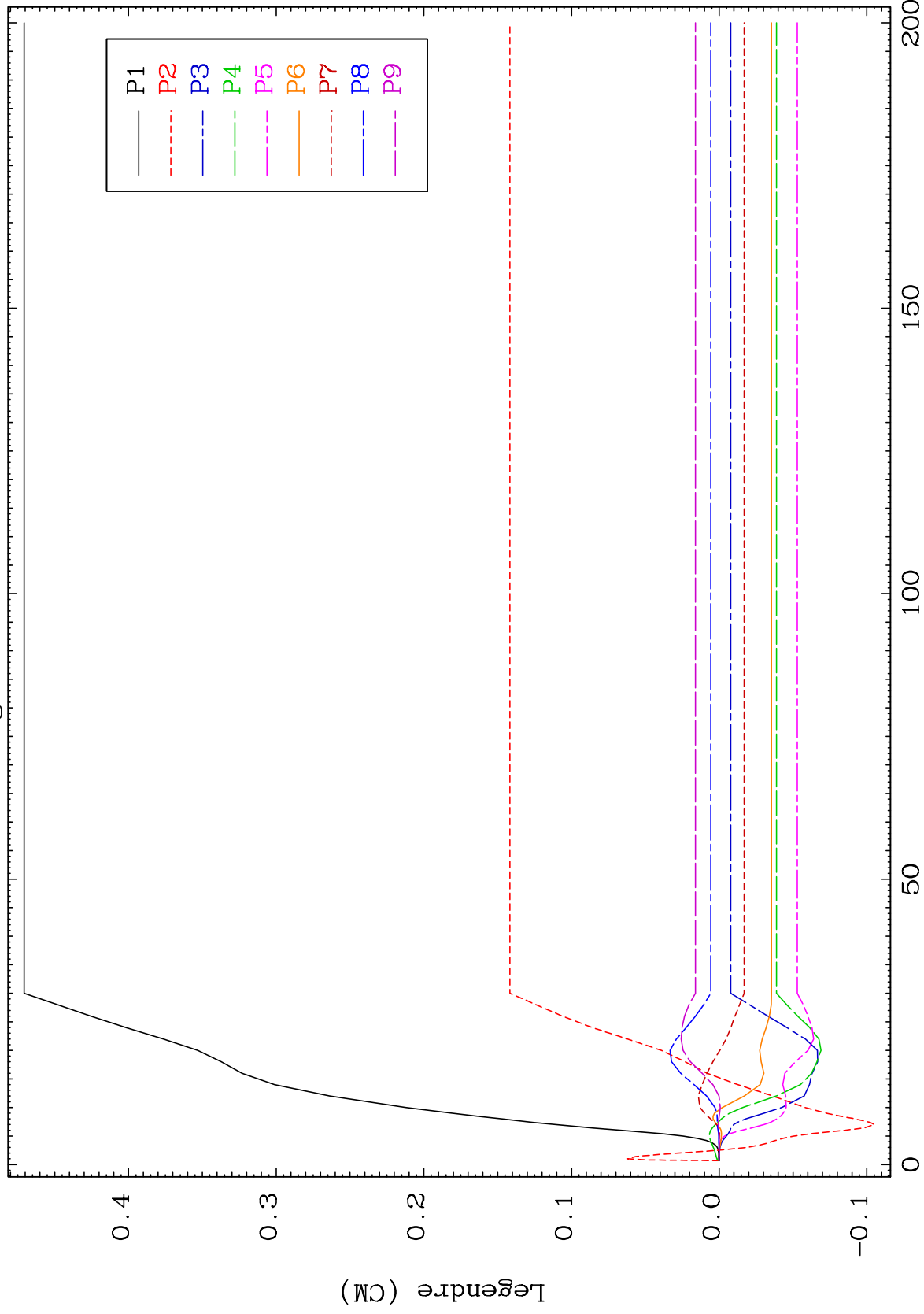




MAT 5616

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

56-Ba-127



66

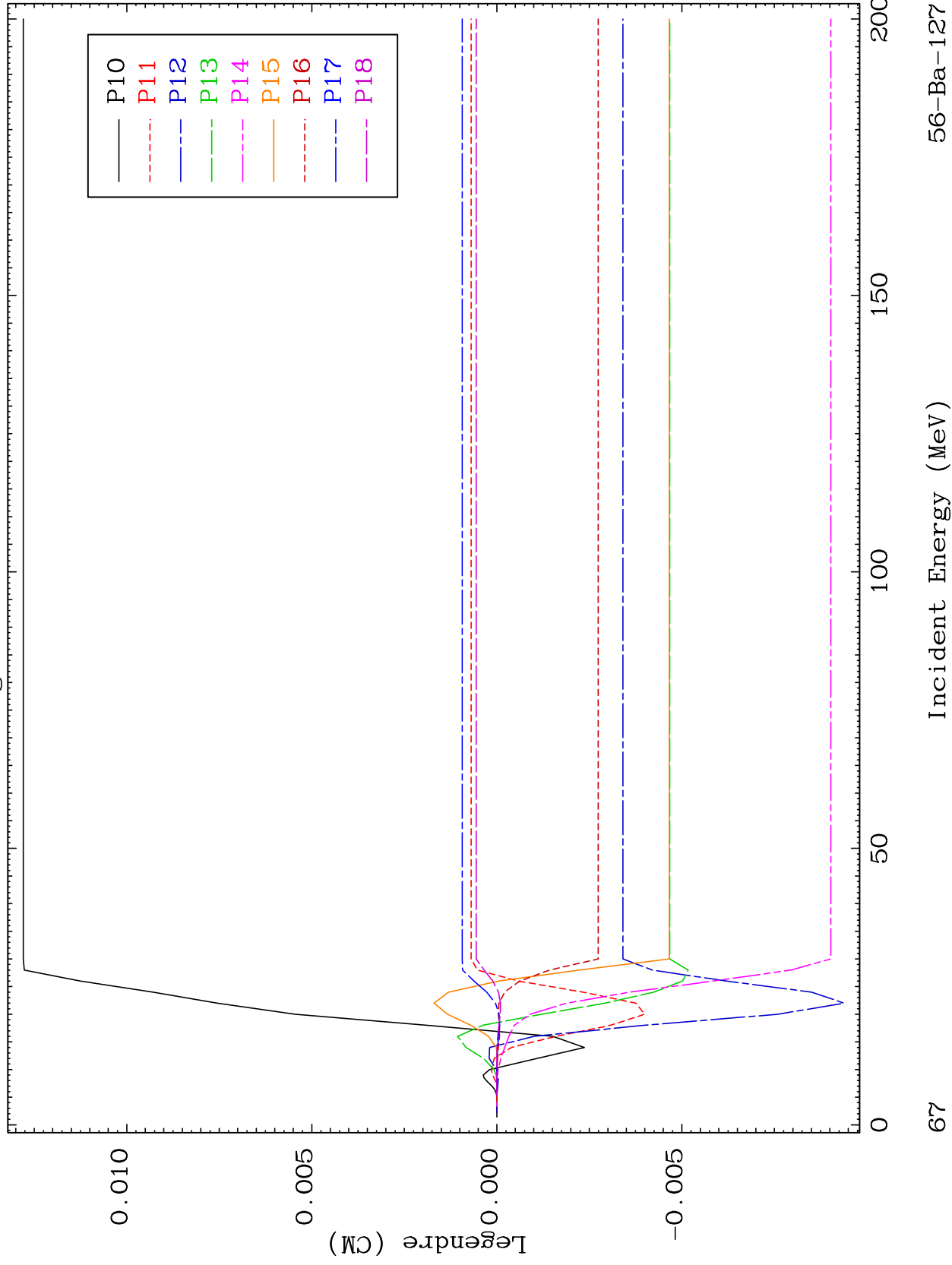
Incident Energy (MeV)

56-Ba-127

MAT 5616

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

56-Ba-127



67

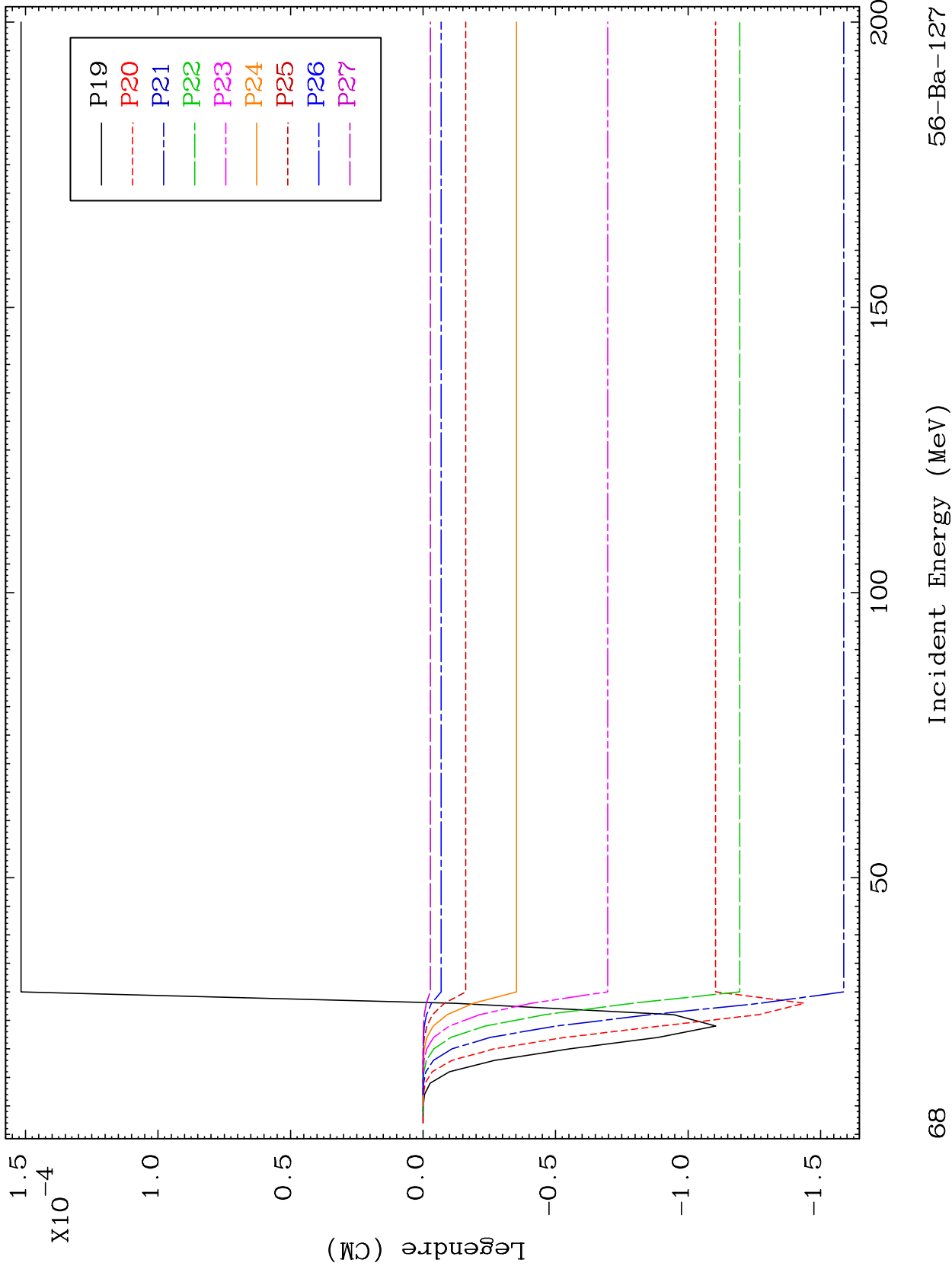
Incident Energy (MeV)

56-Ba-127

MAT 5616

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

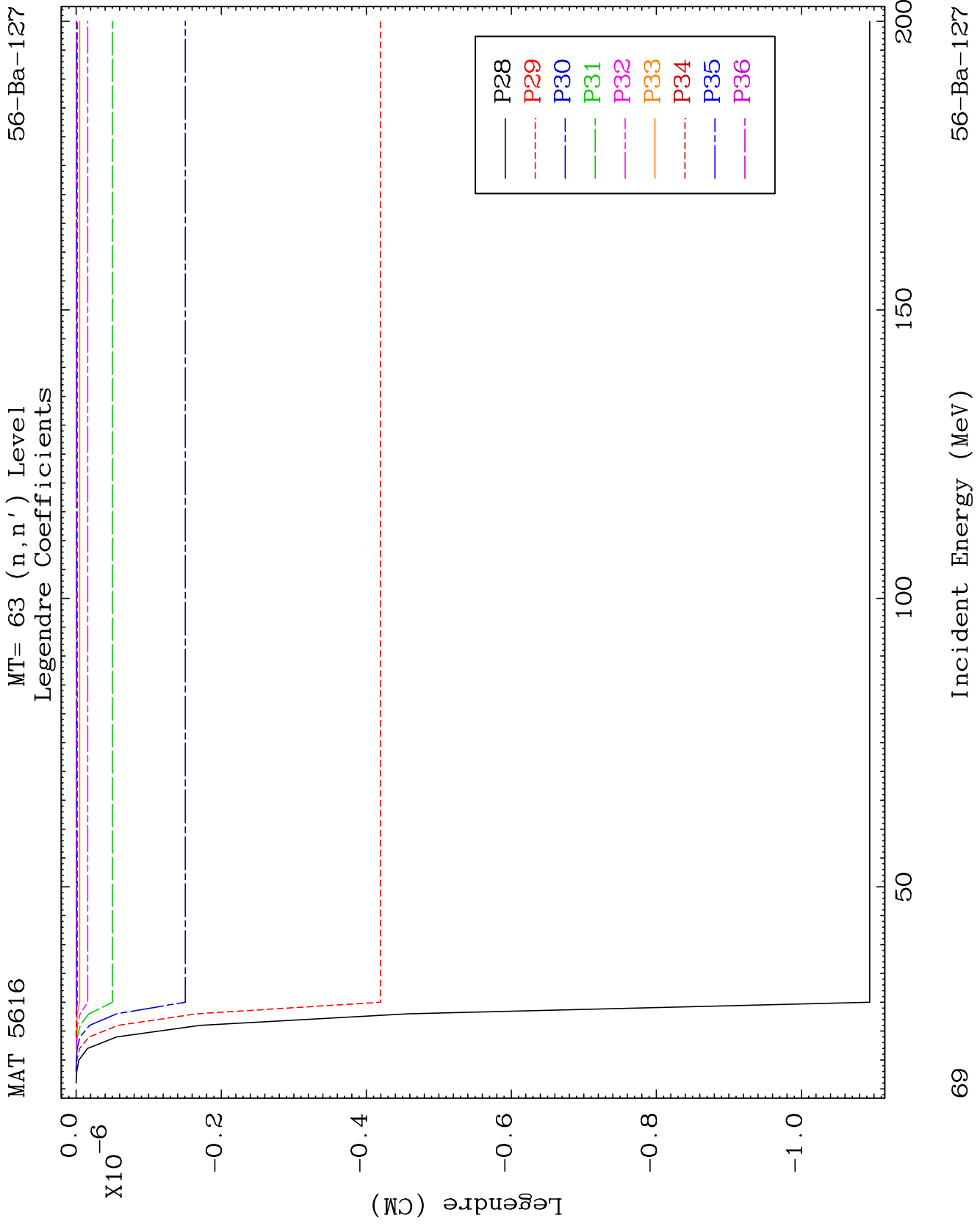
56-Ba-127



68

Incident Energy (MeV)

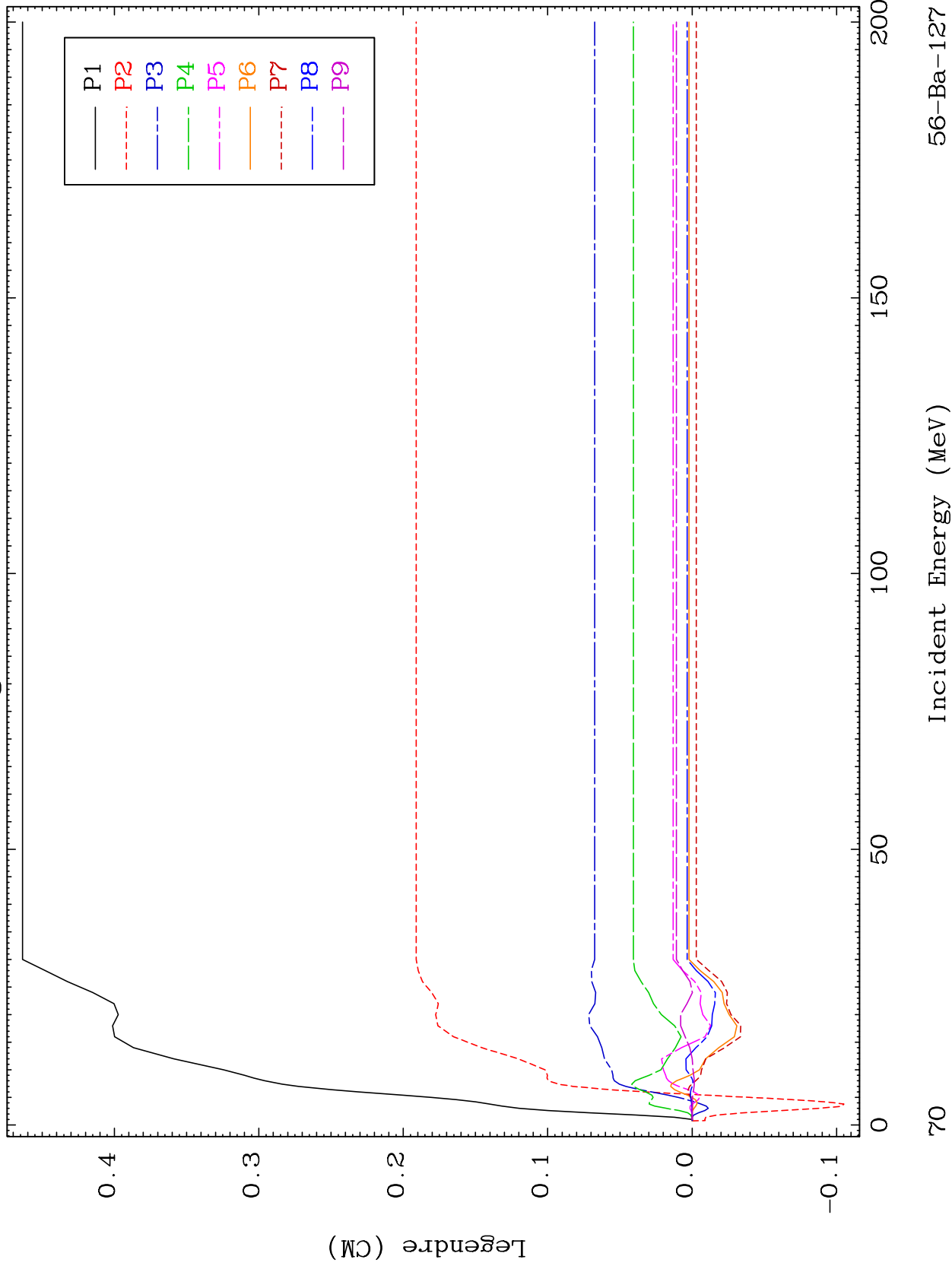
56-Ba-127



MAT 5616

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

56-Ba-127



56-Ba-127

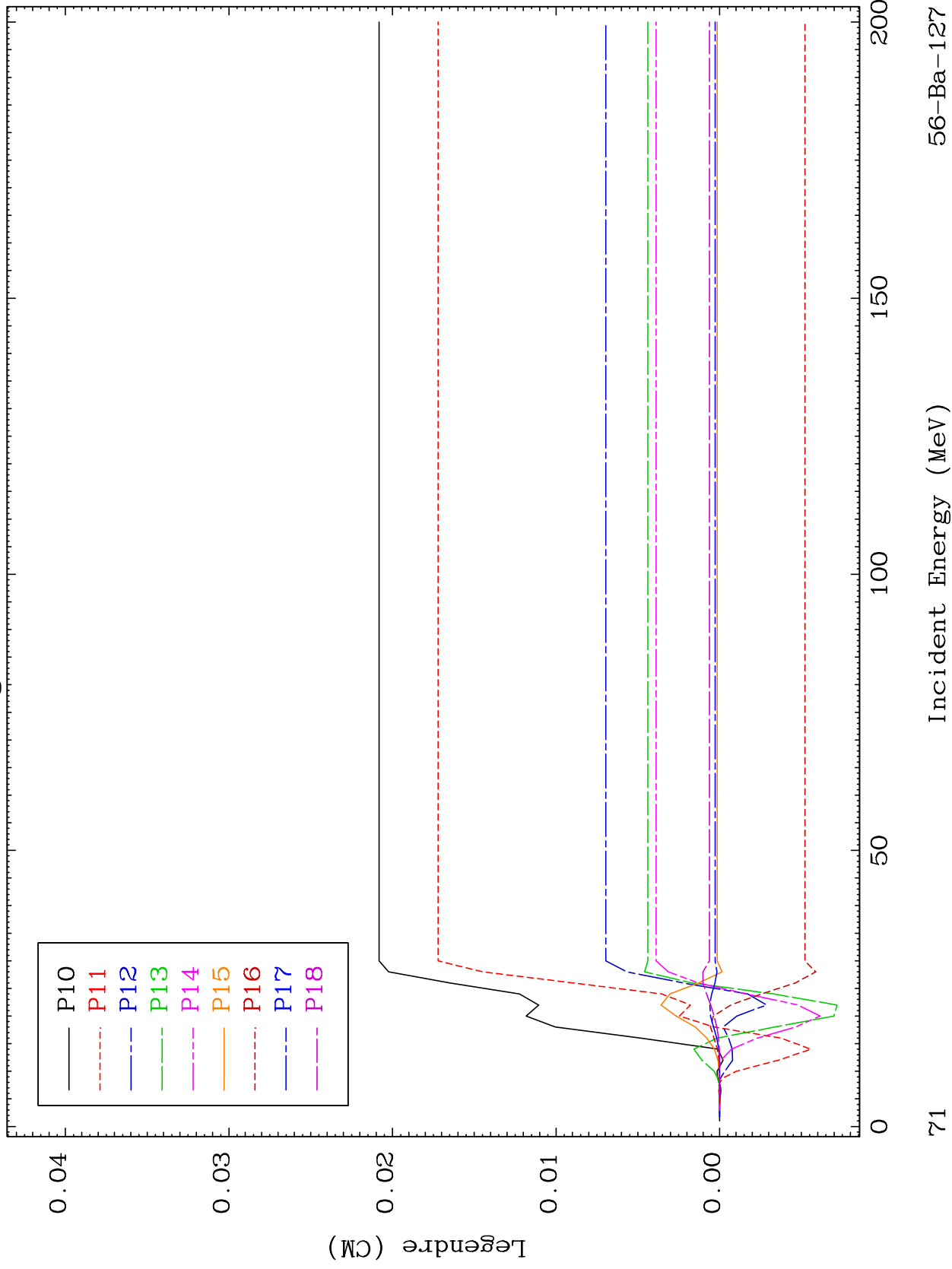
Incident Energy (MeV)

70

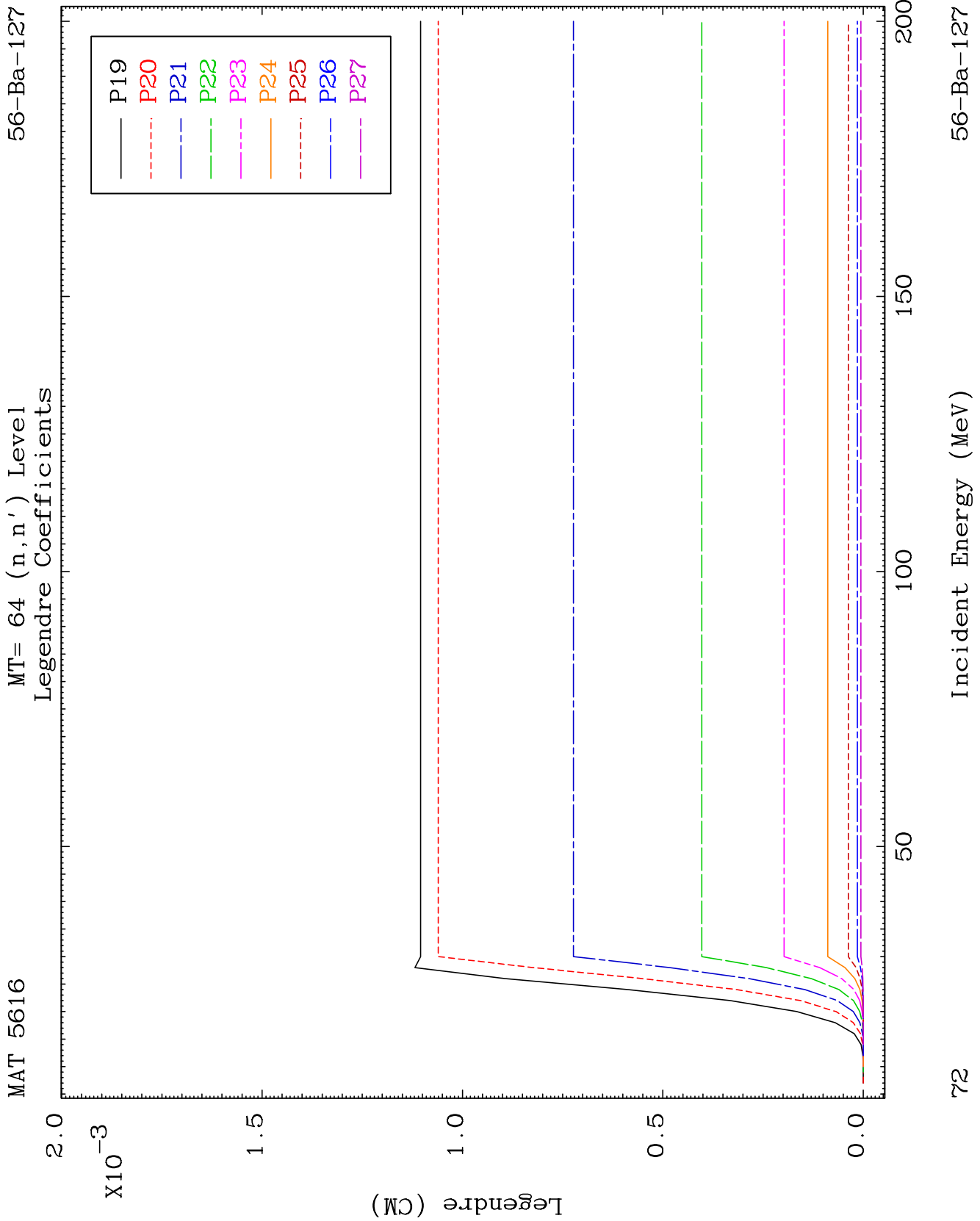
MAT 5616

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

56-Ba-127



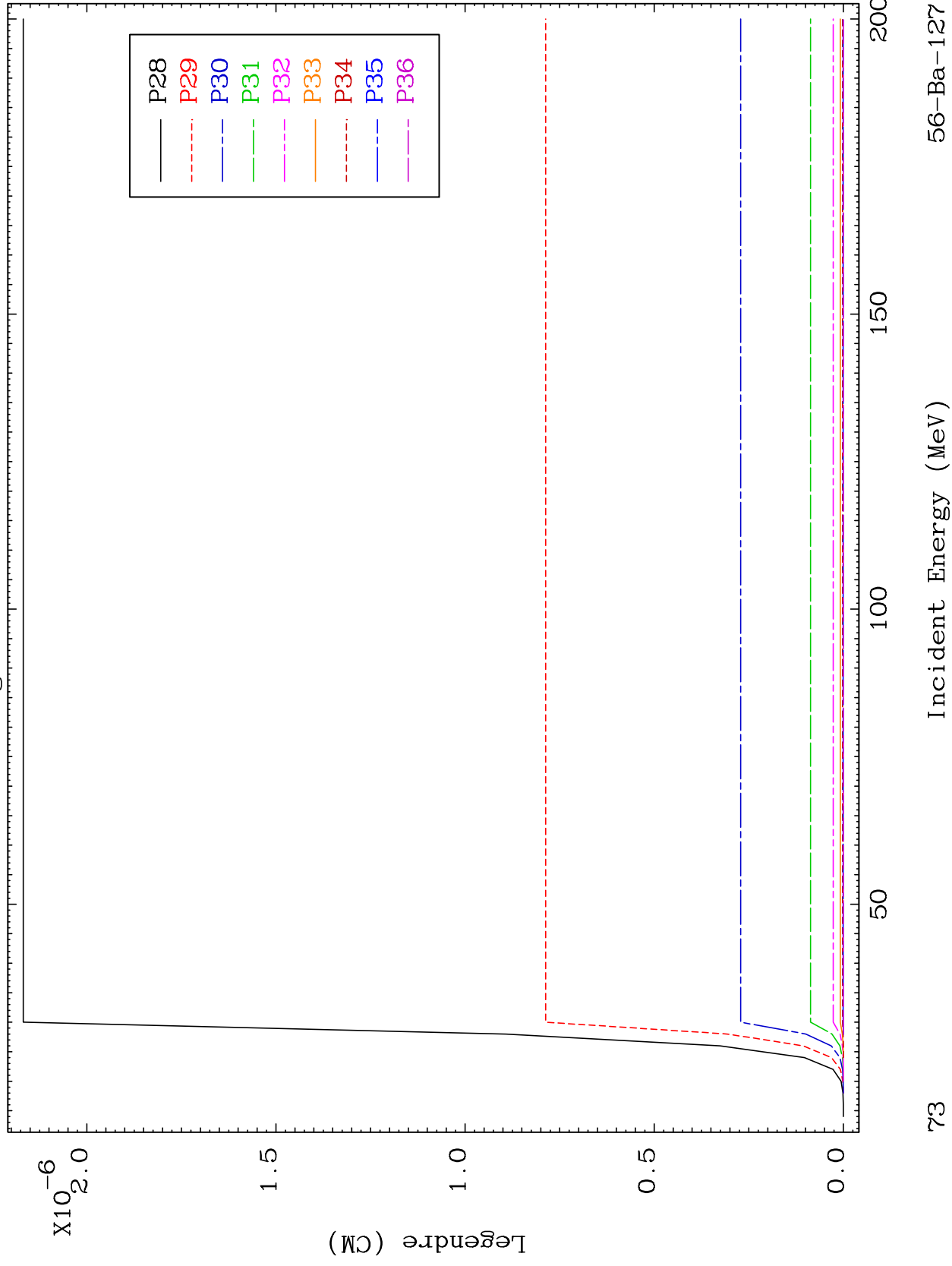




MAT 5616

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

56-Ba-127



73

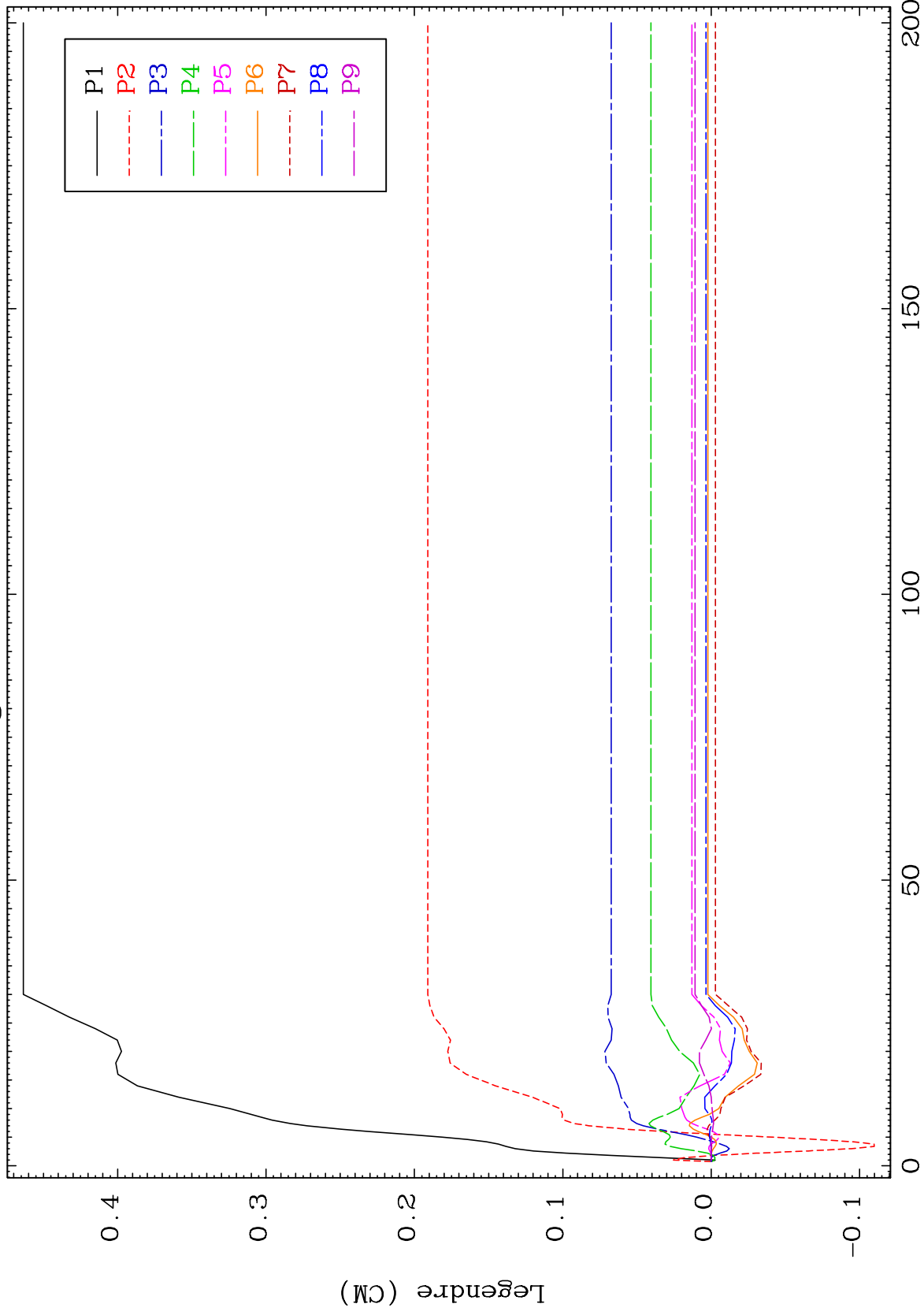
Incident Energy (MeV)

56-Ba-127

MAT 5616

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

56-Ba-127



74

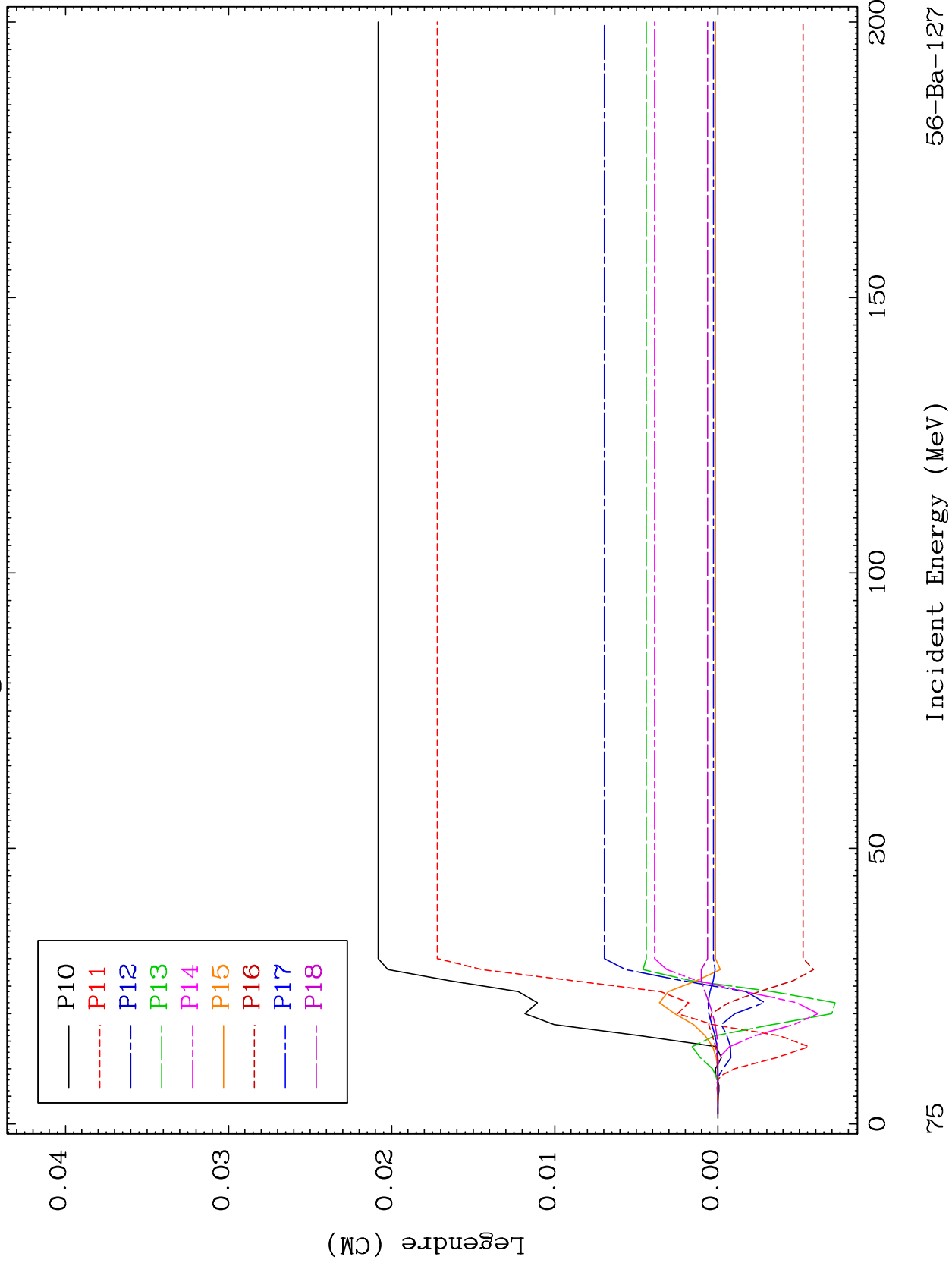
Incident Energy (MeV)

56-Ba-127

MAT 5616

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

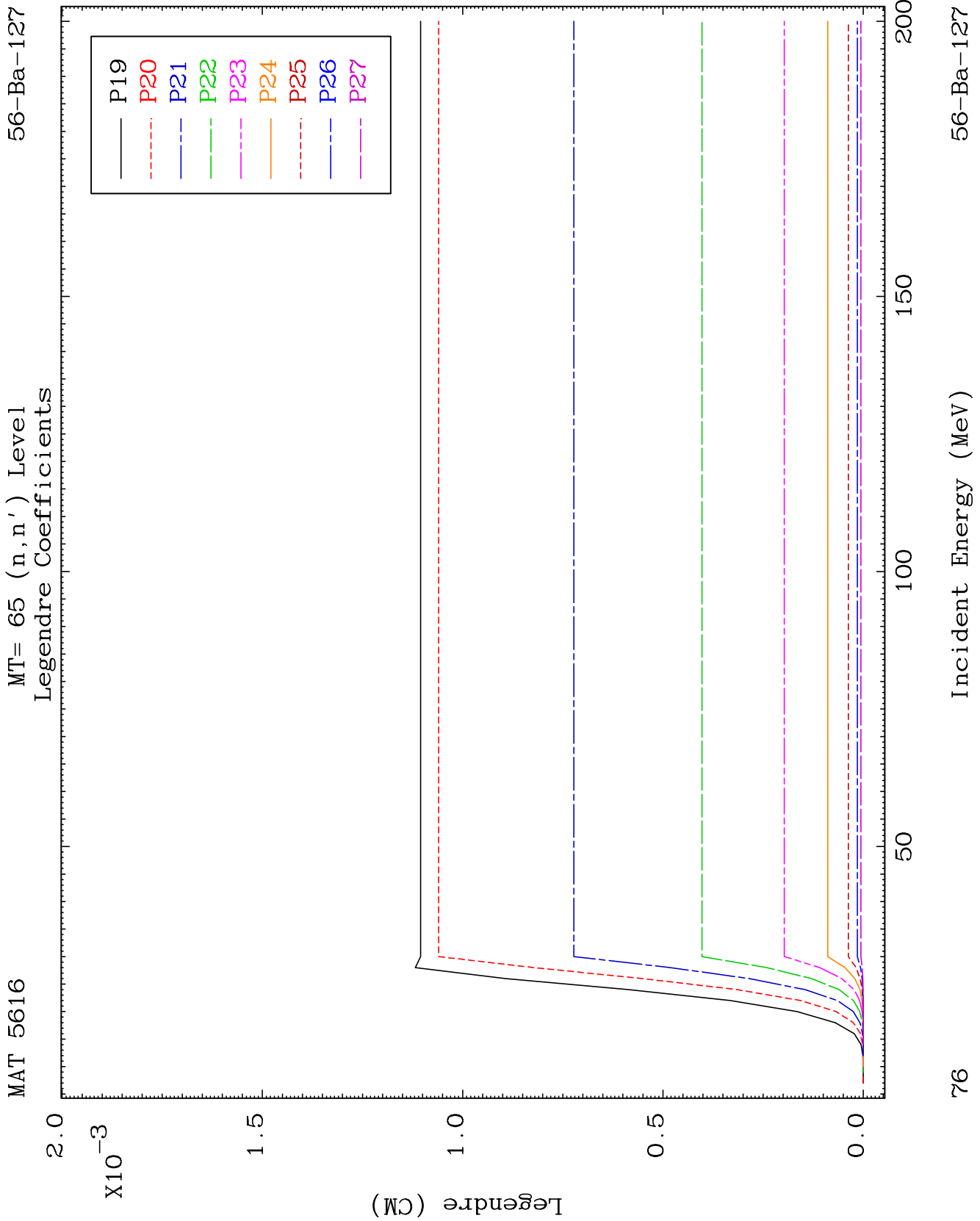
56-Ba-127



56-Ba-127

Incident Energy (MeV)

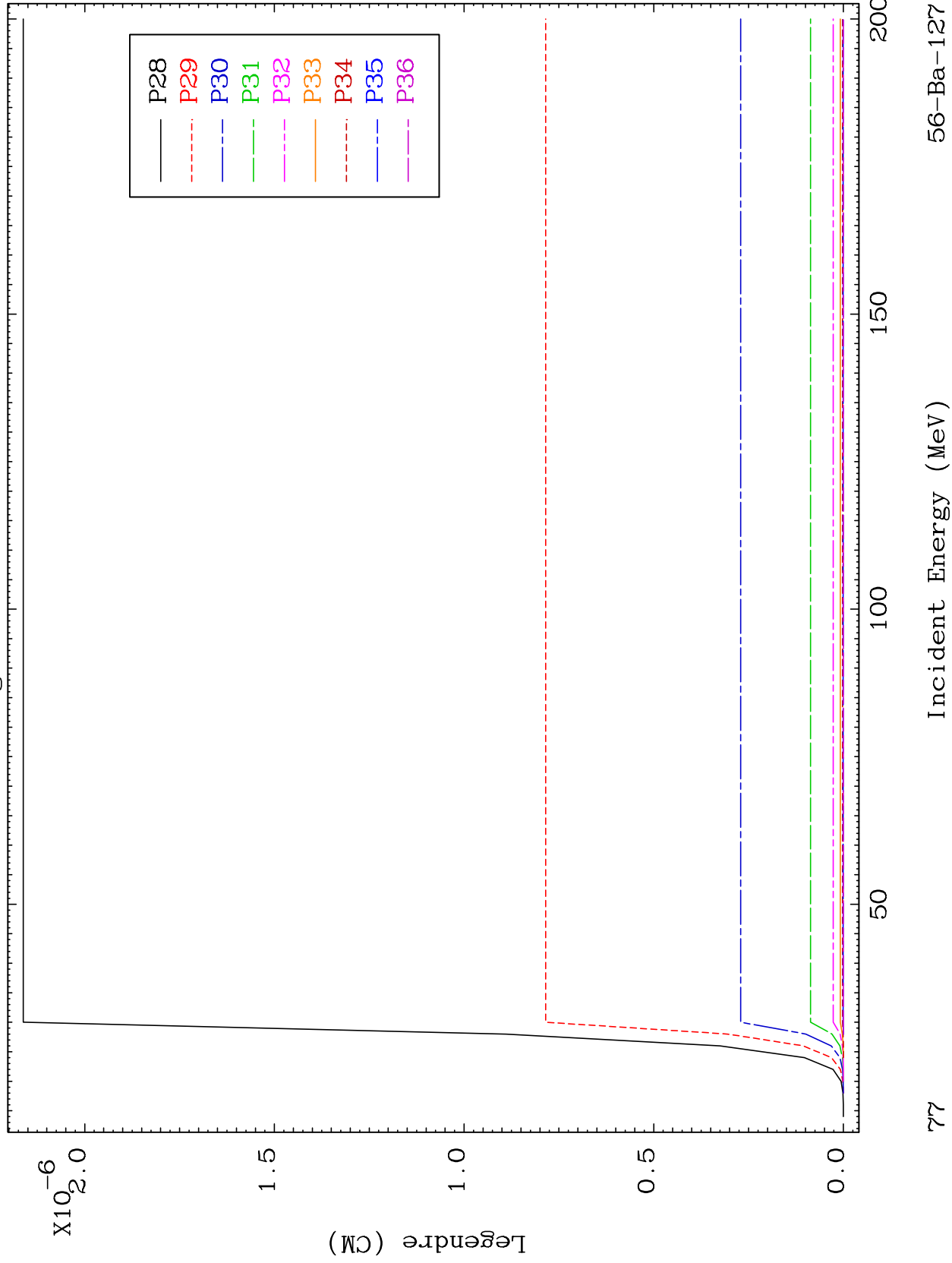
75

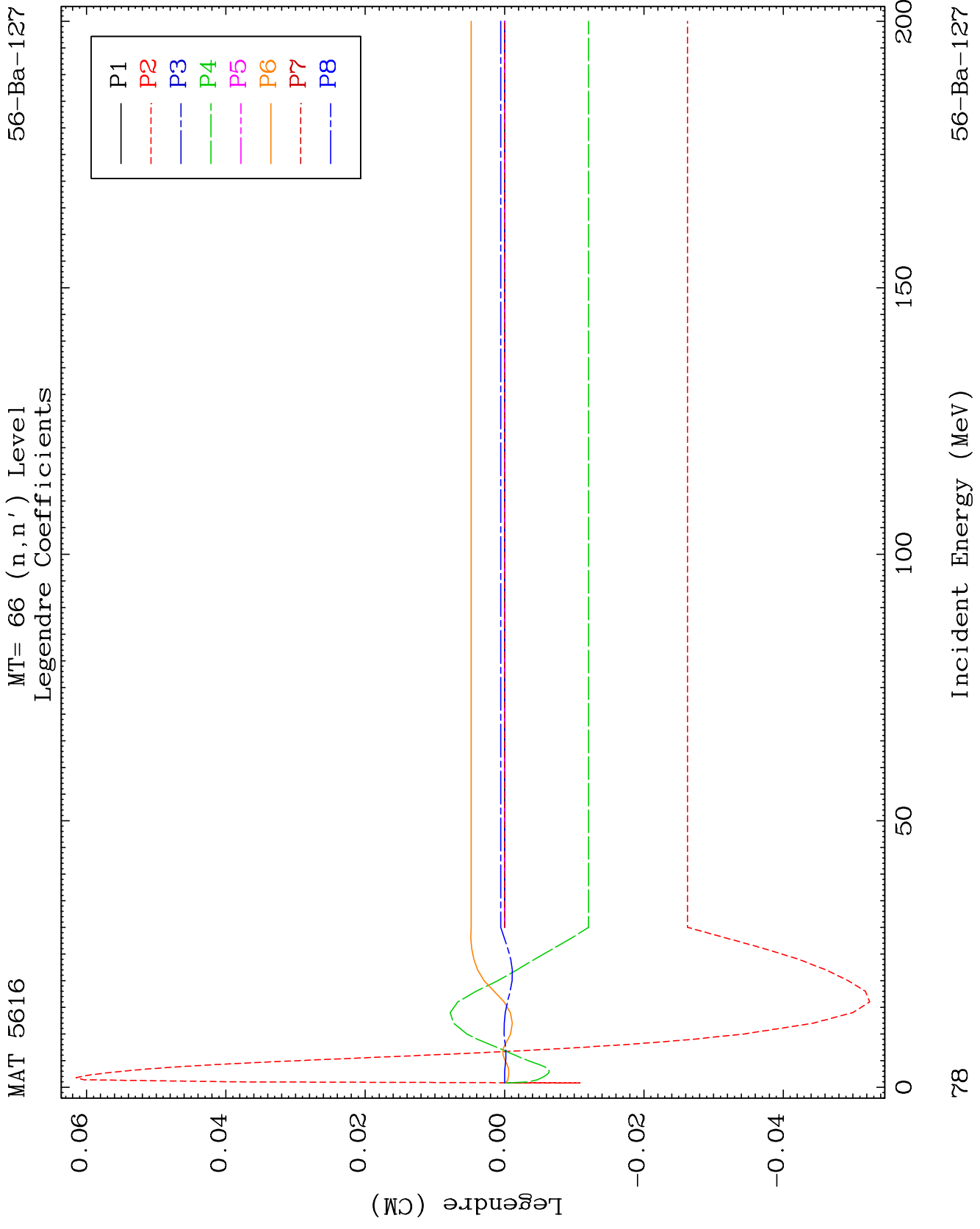


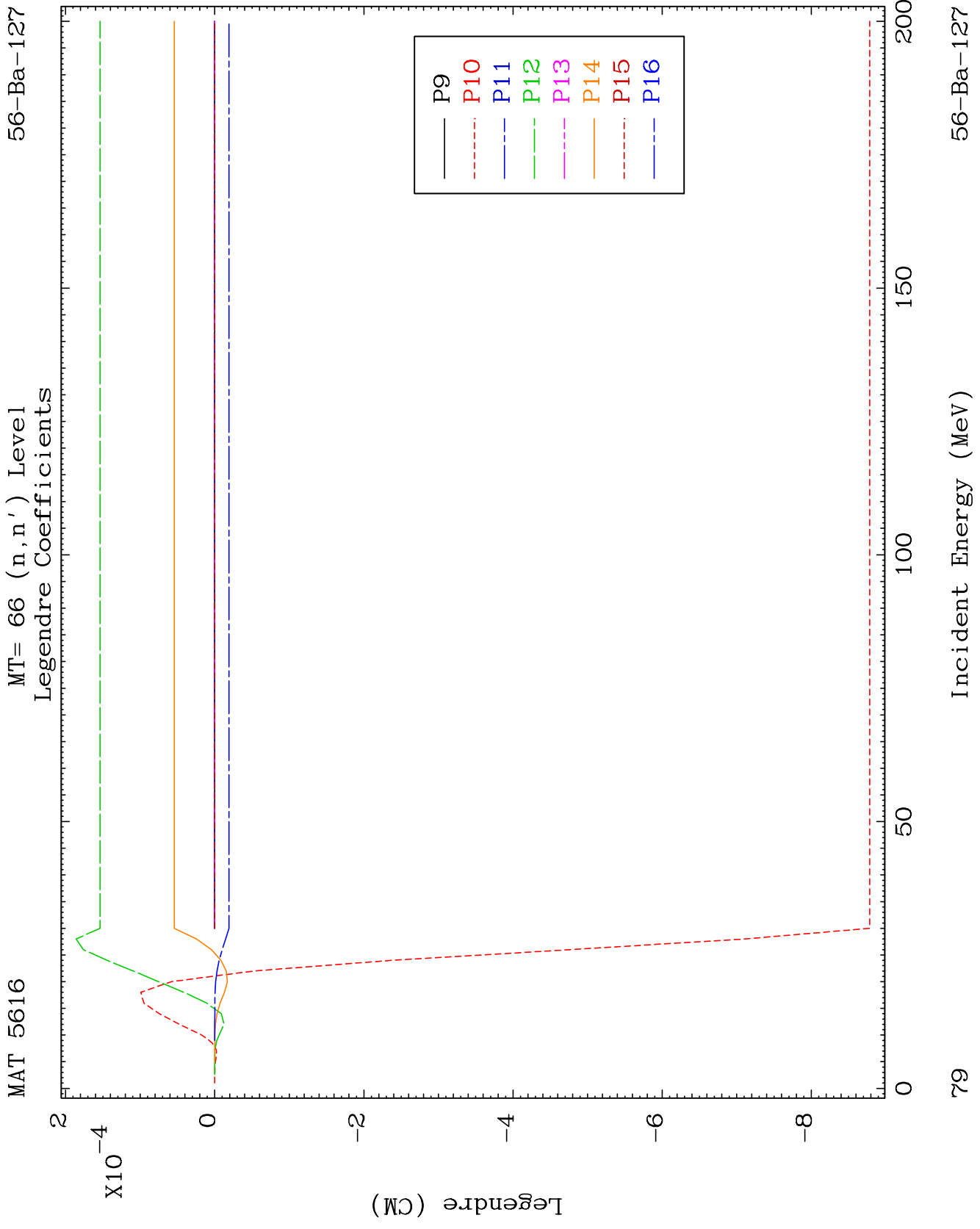
MAT 5616

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

56-Ba-127





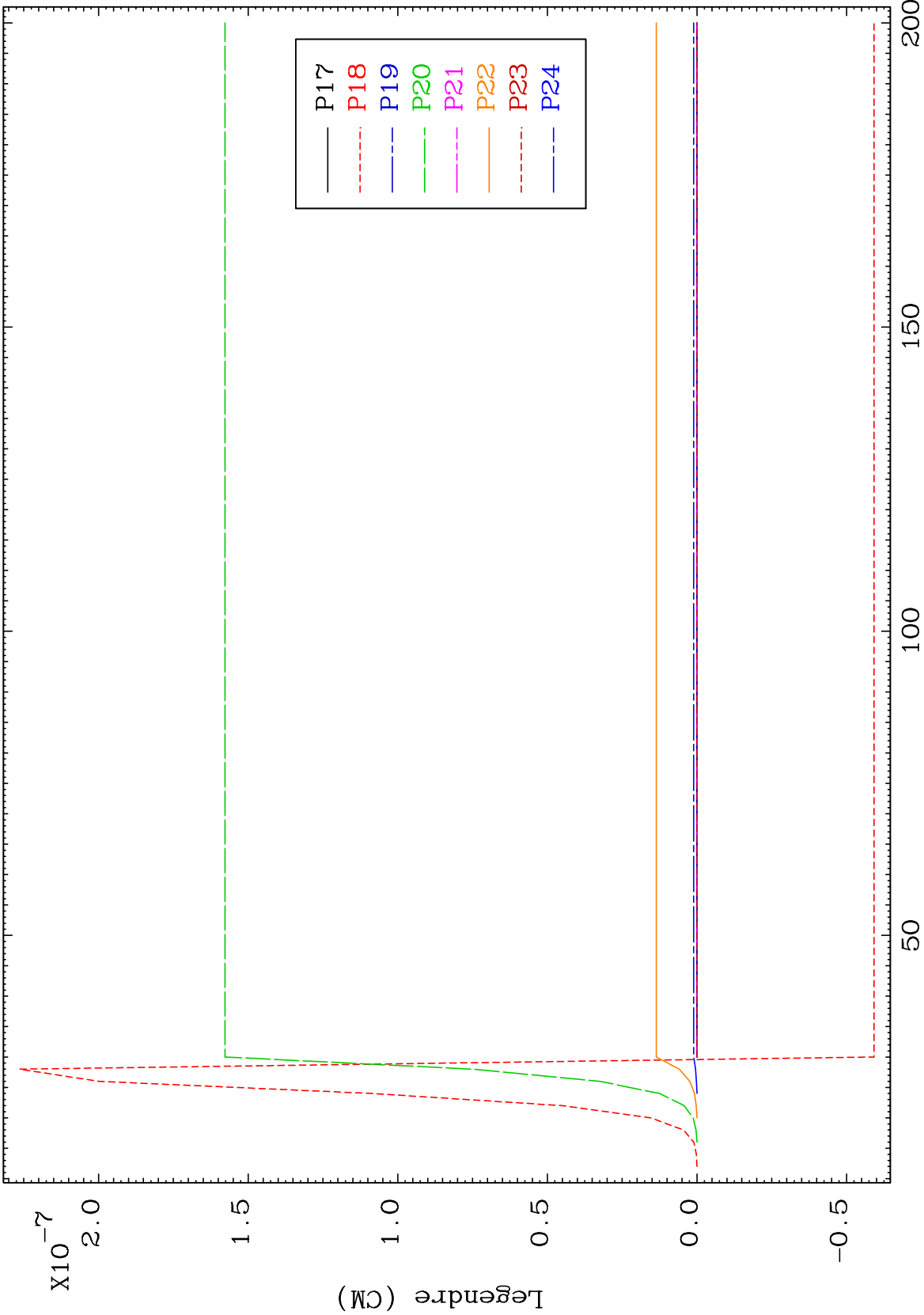




MAT 5616

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

56-Ba-127



80

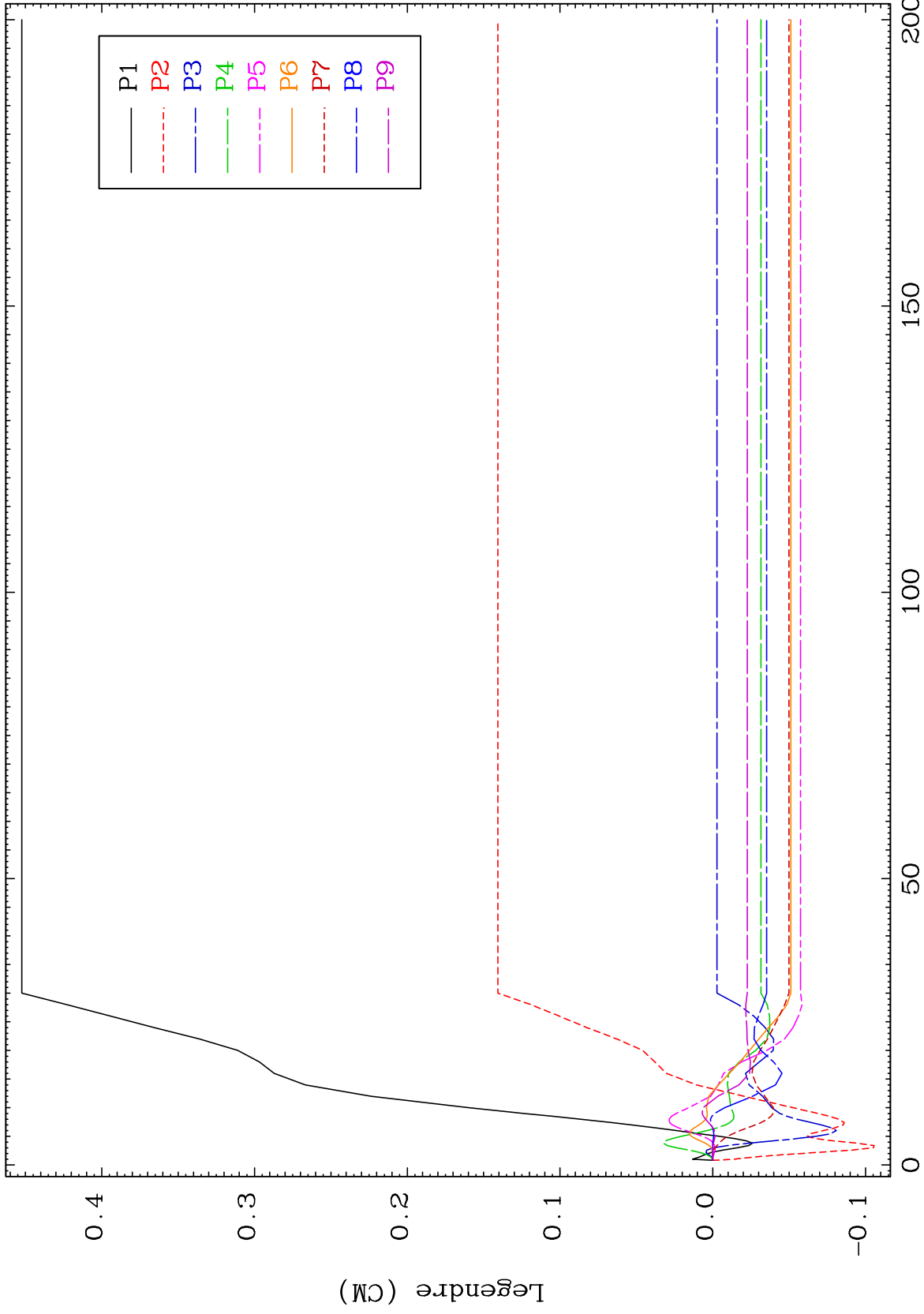
Incident Energy (MeV)

56-Ba-127

MAT 5616

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

56-Ba-127



81

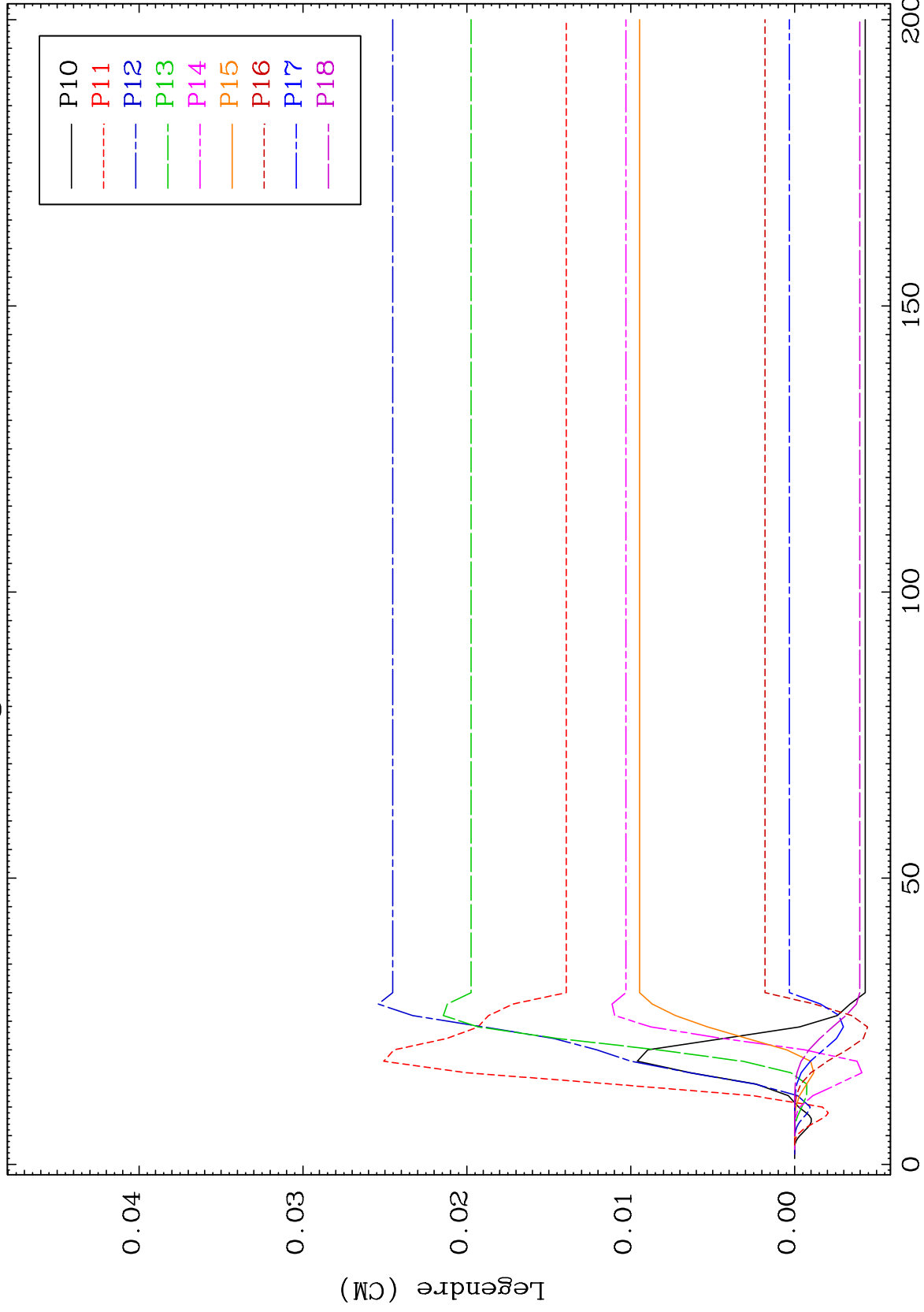
Incident Energy (MeV)

56-Ba-127

MAT 5616

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

56-Ba-127



82

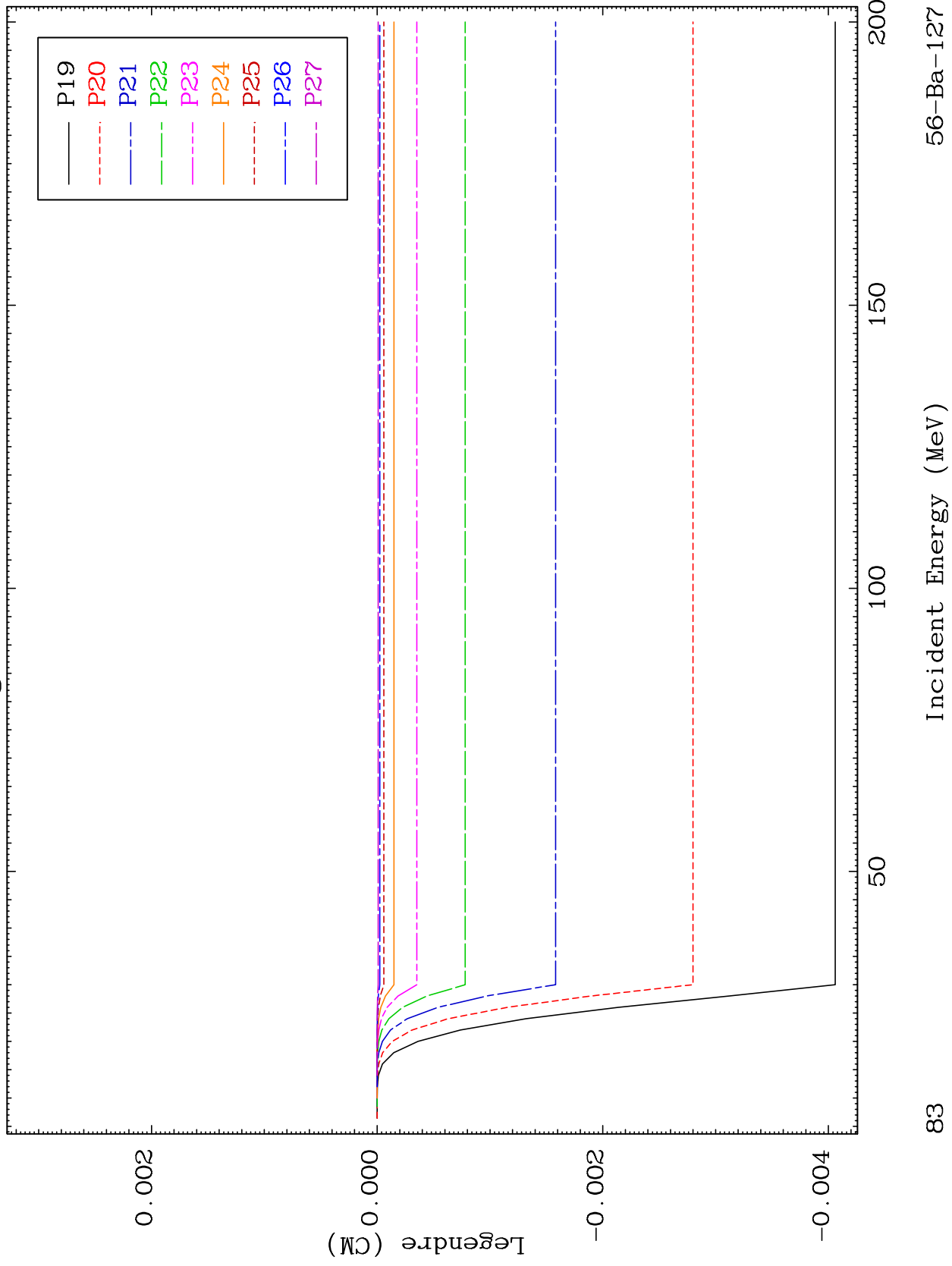
Incident Energy (MeV)

56-Ba-127

MAT 5616

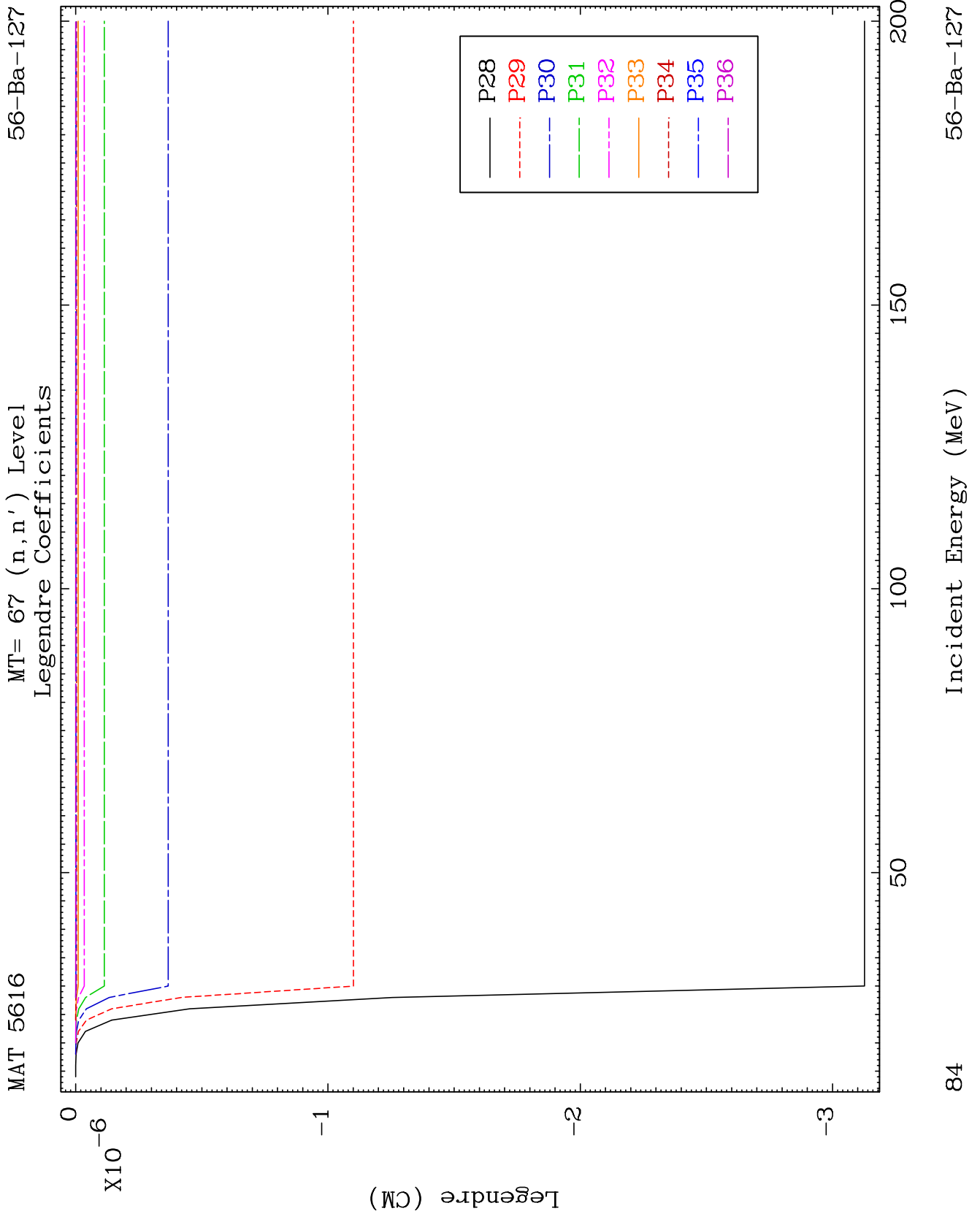
MT= 67 (n,n') Level  
Legendre Coefficients

56-Ba-127



83

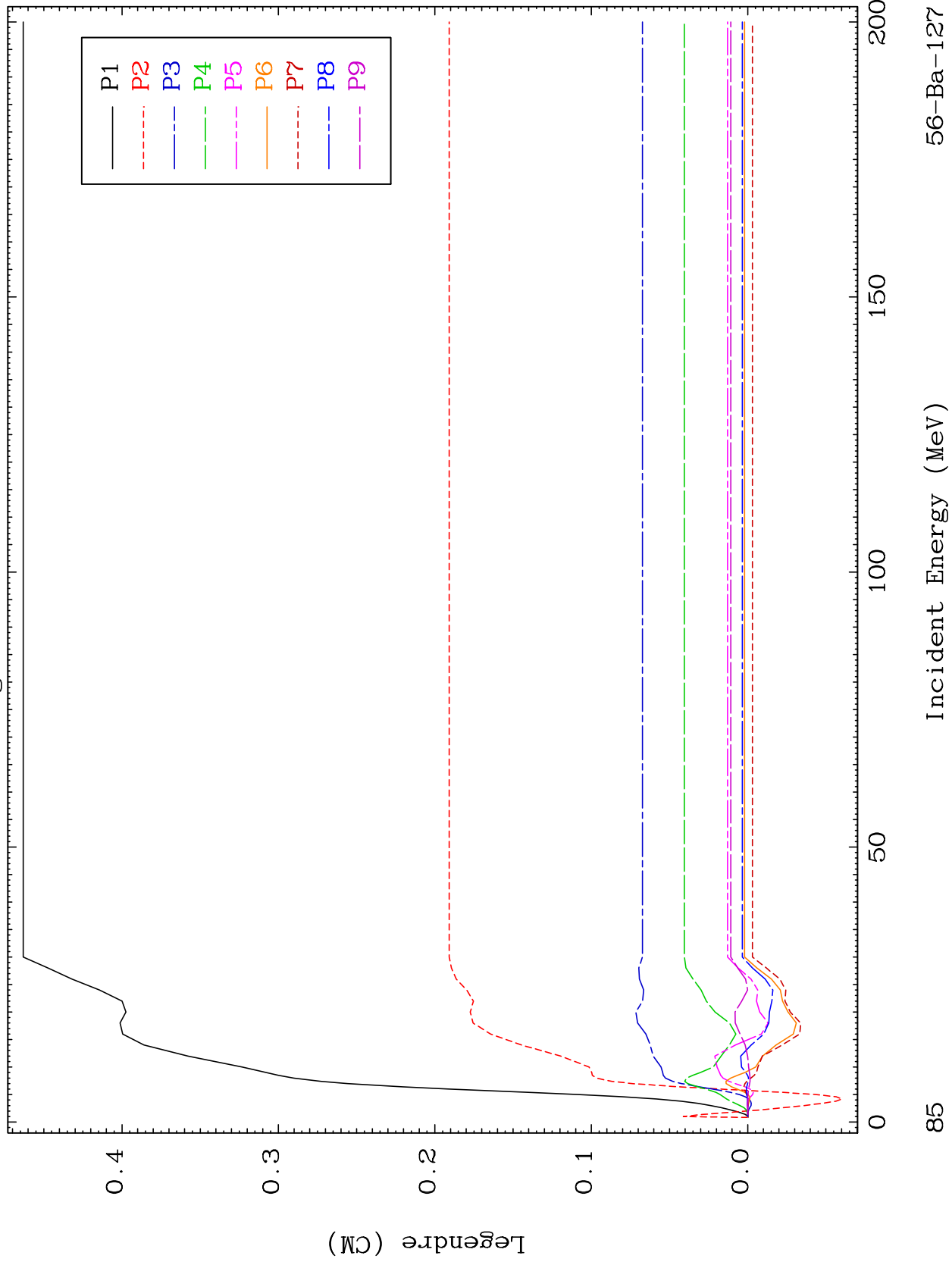
56-Ba-127



MAT 5616

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

56-Ba-127



56-Ba-127

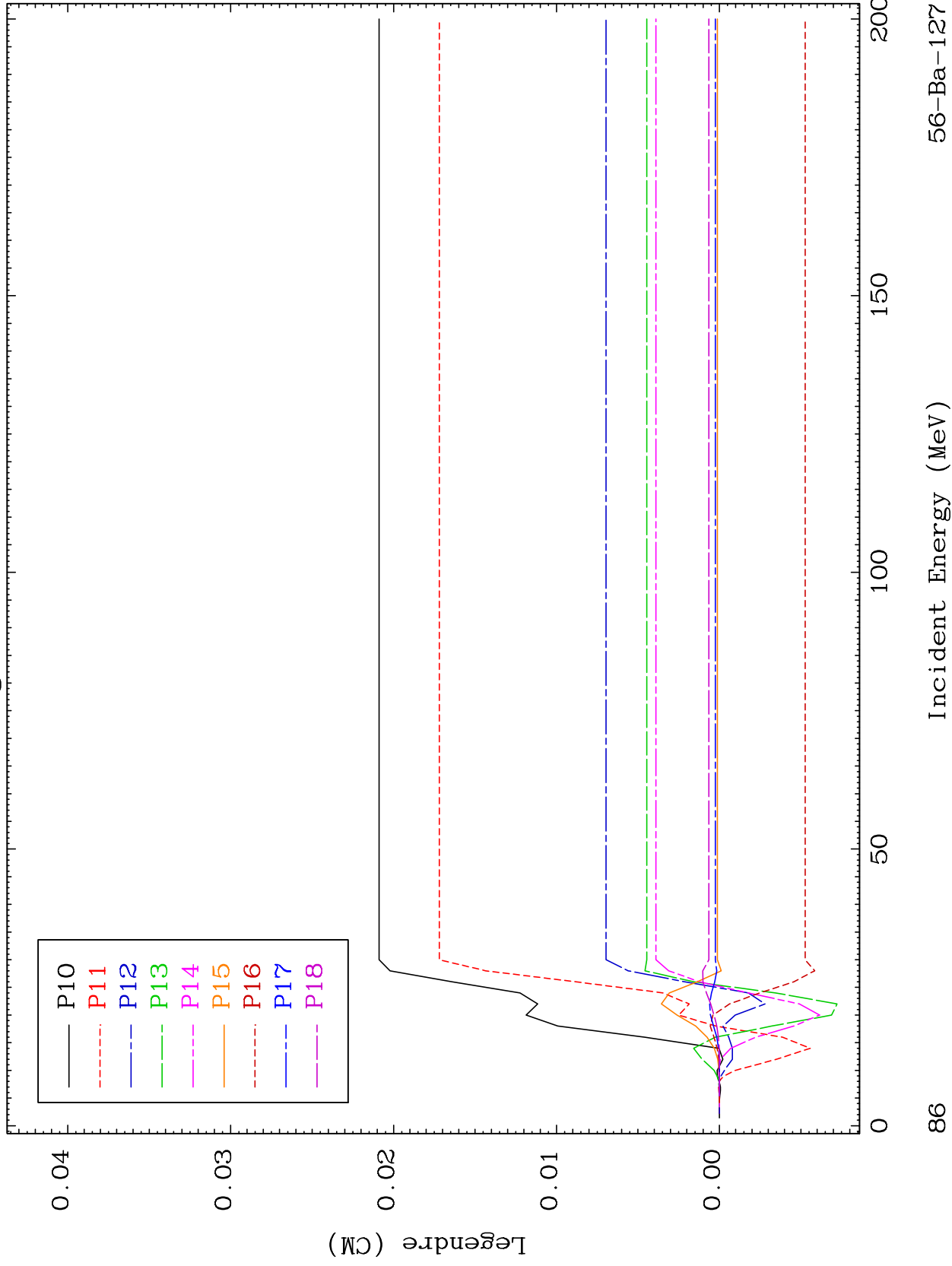
Incident Energy (MeV)

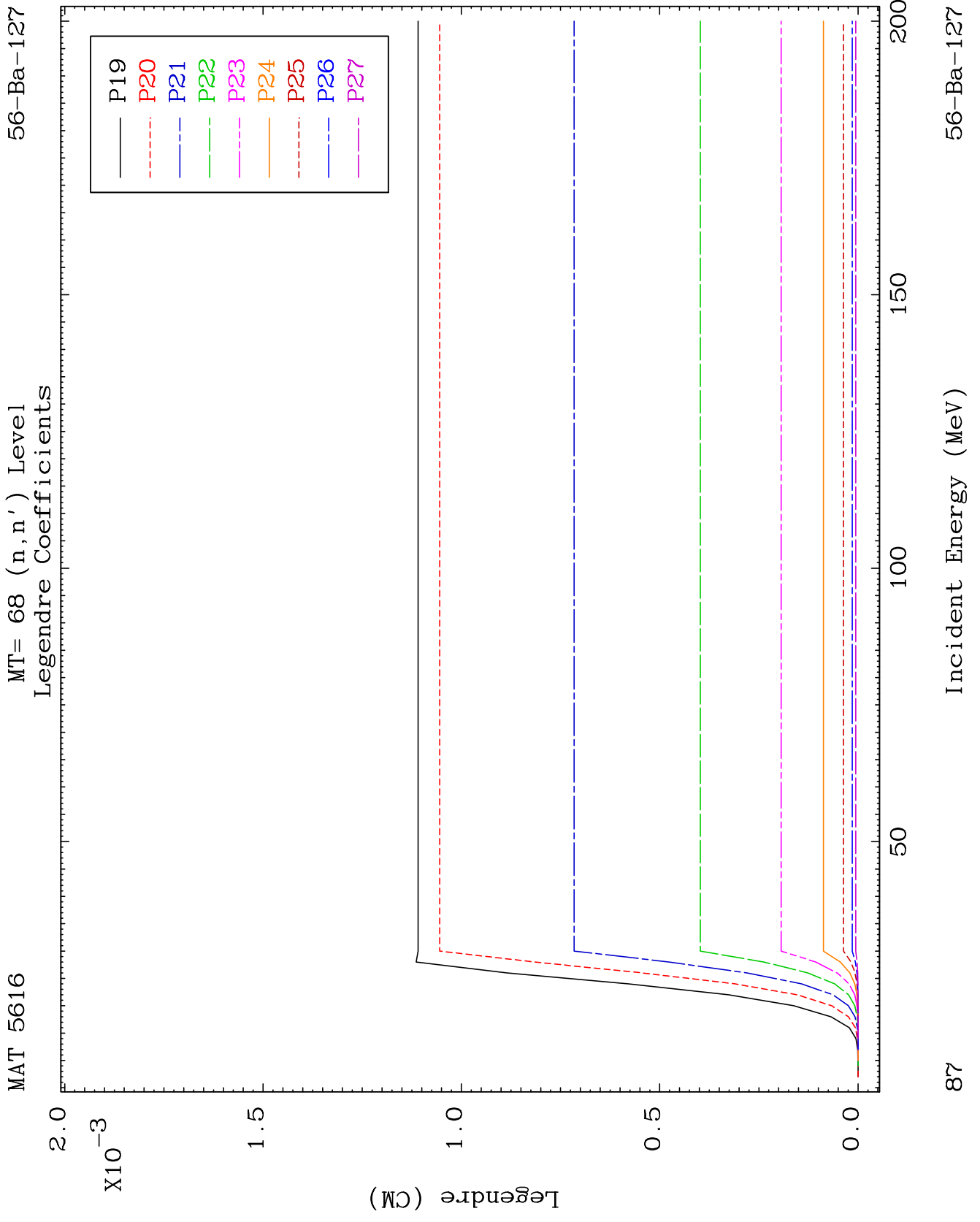
85

MAT 5616

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

56-Ba-127



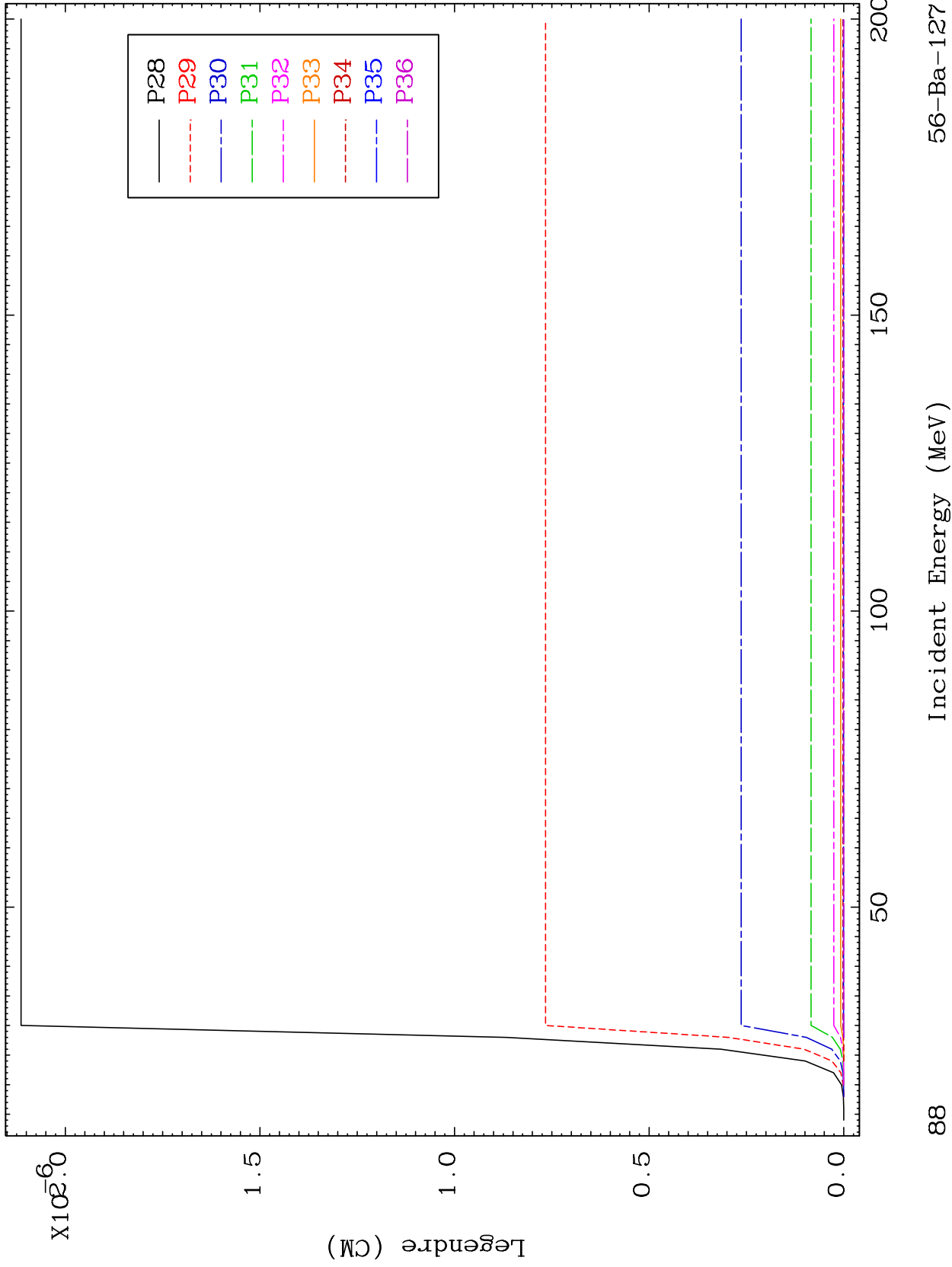




MAT 5616

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

56-Ba-127



88

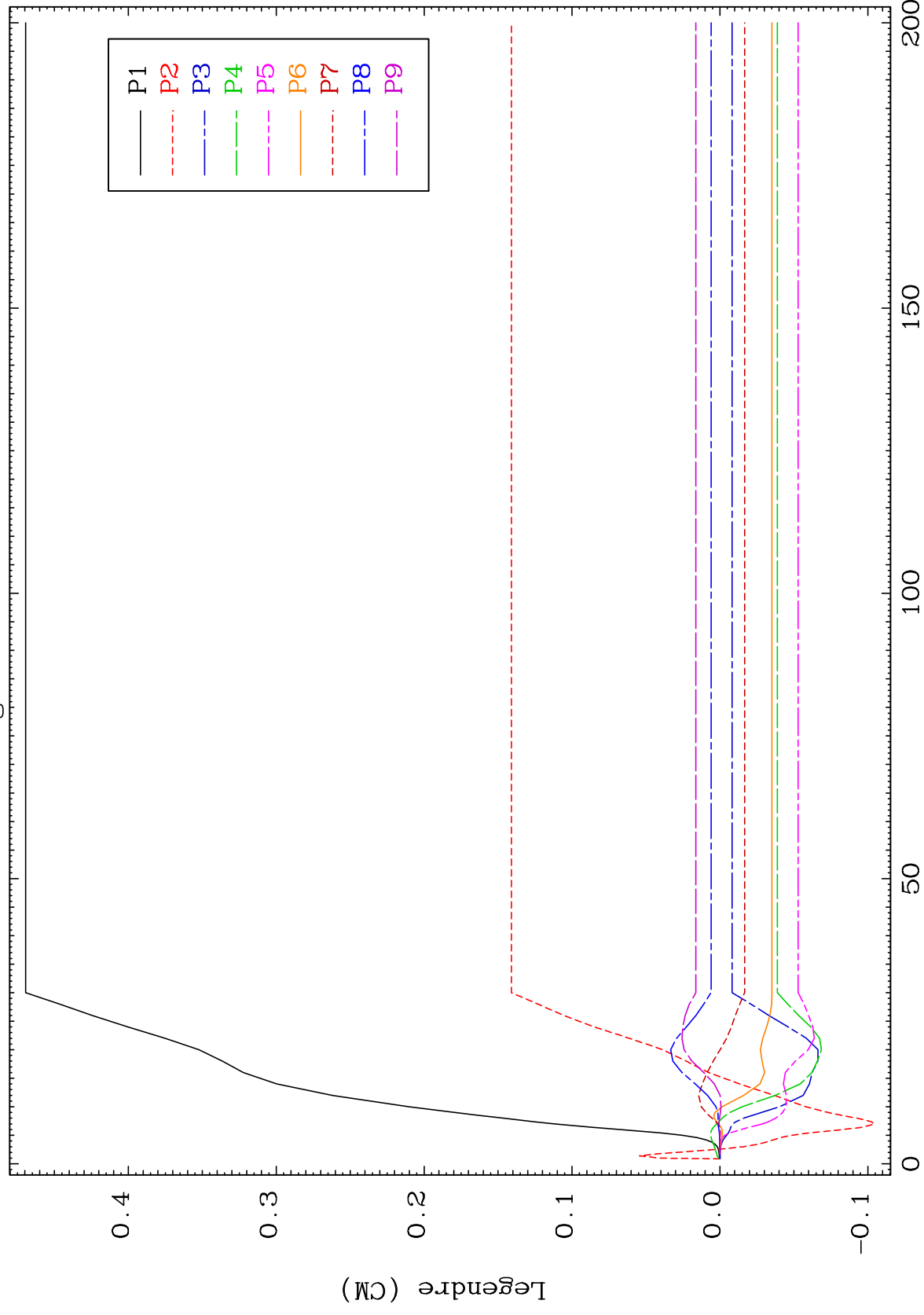
Incident Energy (MeV)

56-Ba-127

MAT 5616

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

56-Ba-127



89

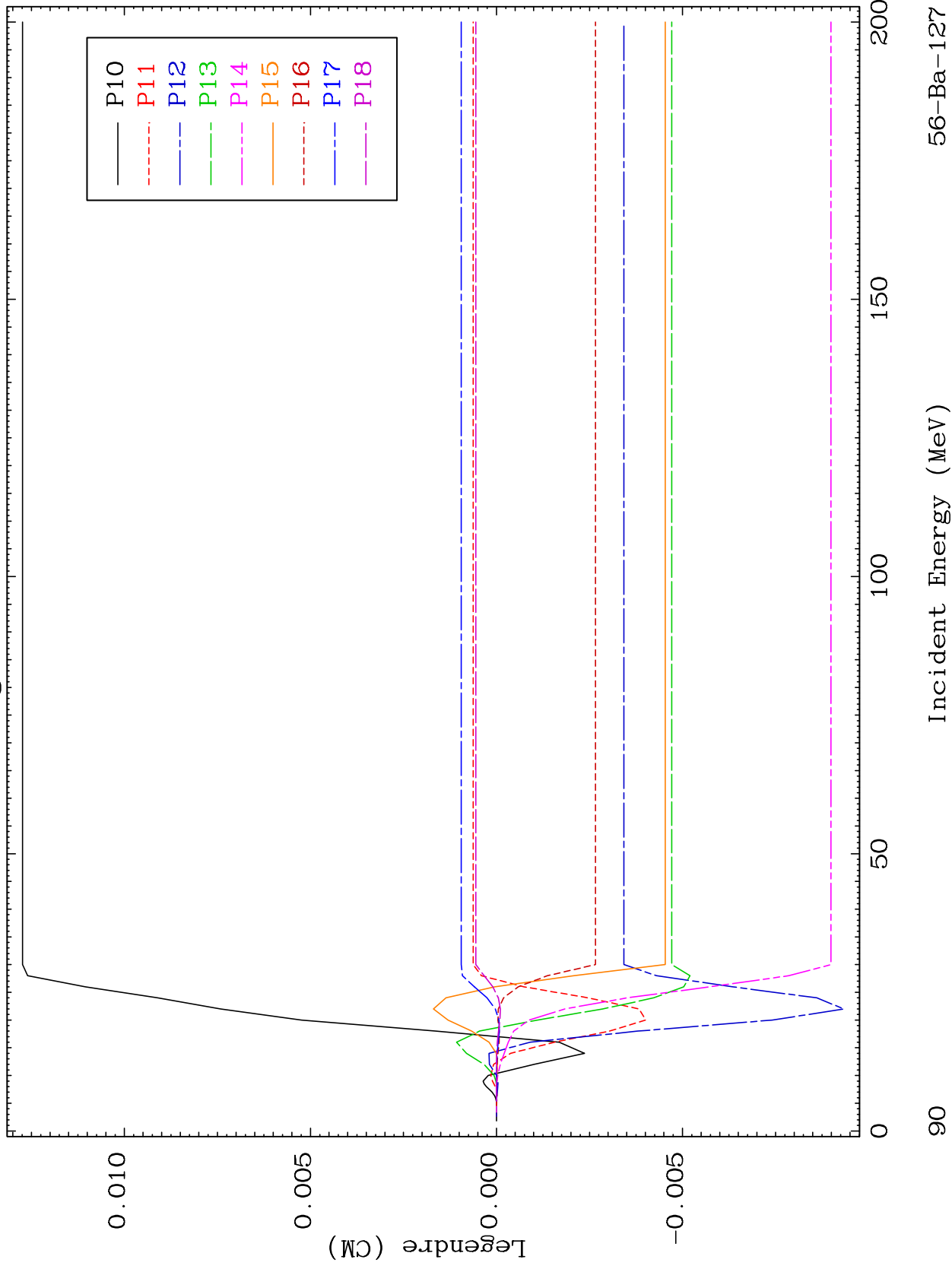
Incident Energy (MeV)

56-Ba-127

MAT 5616

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

56-Ba-127



56-Ba-127

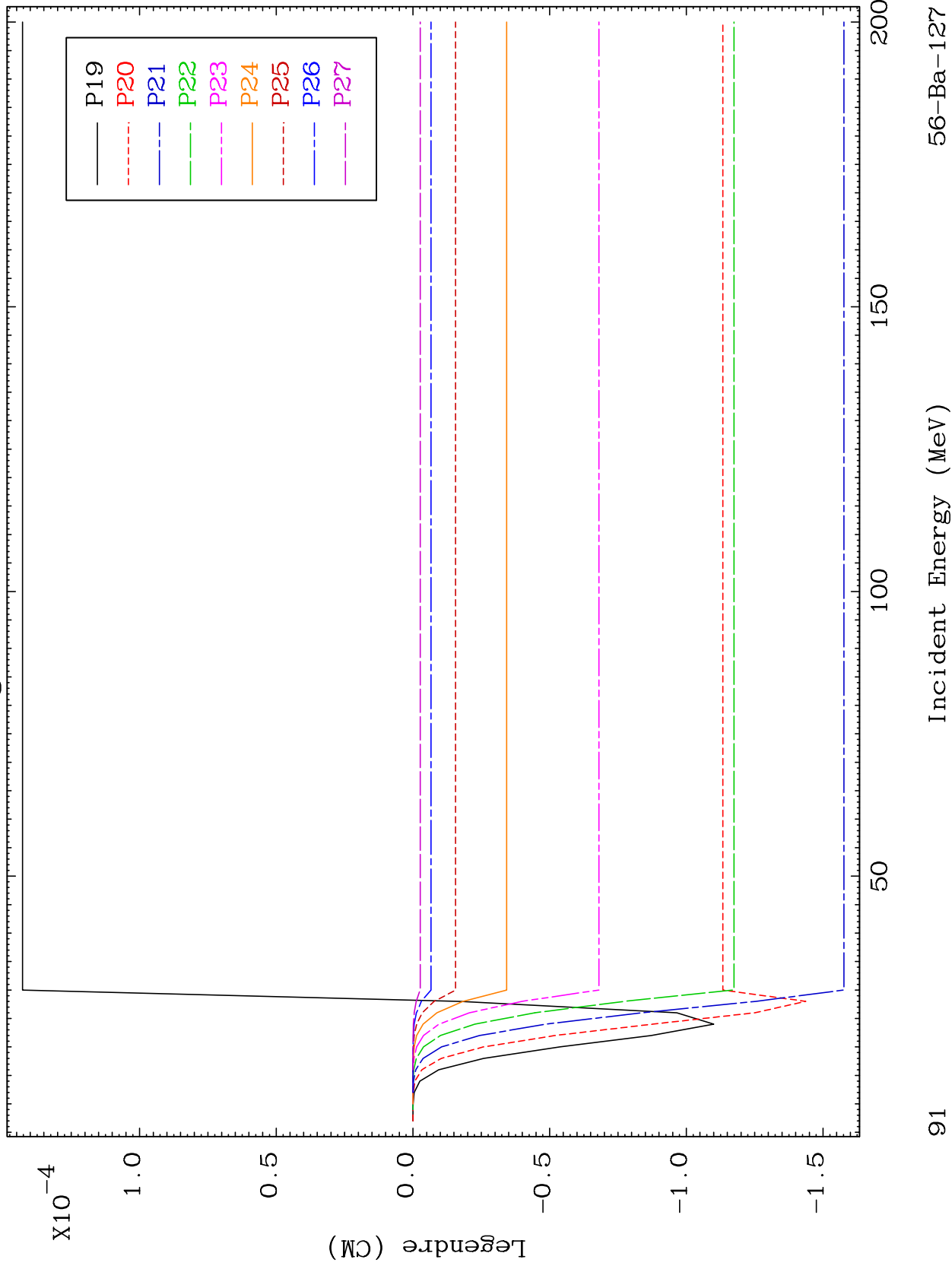
Incident Energy (MeV)

90

MAT 5616

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

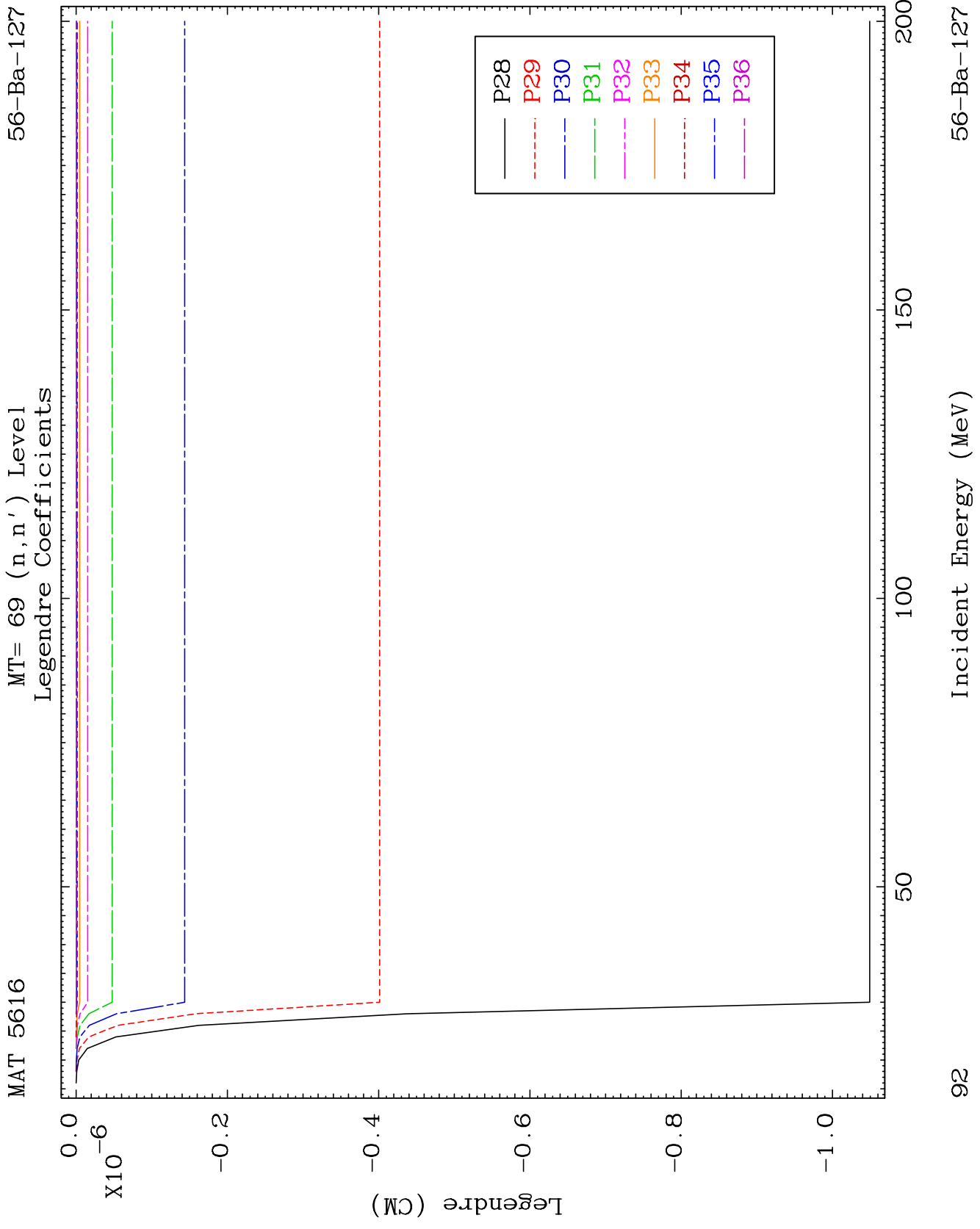
56-Ba-127



91

Incident Energy (MeV)

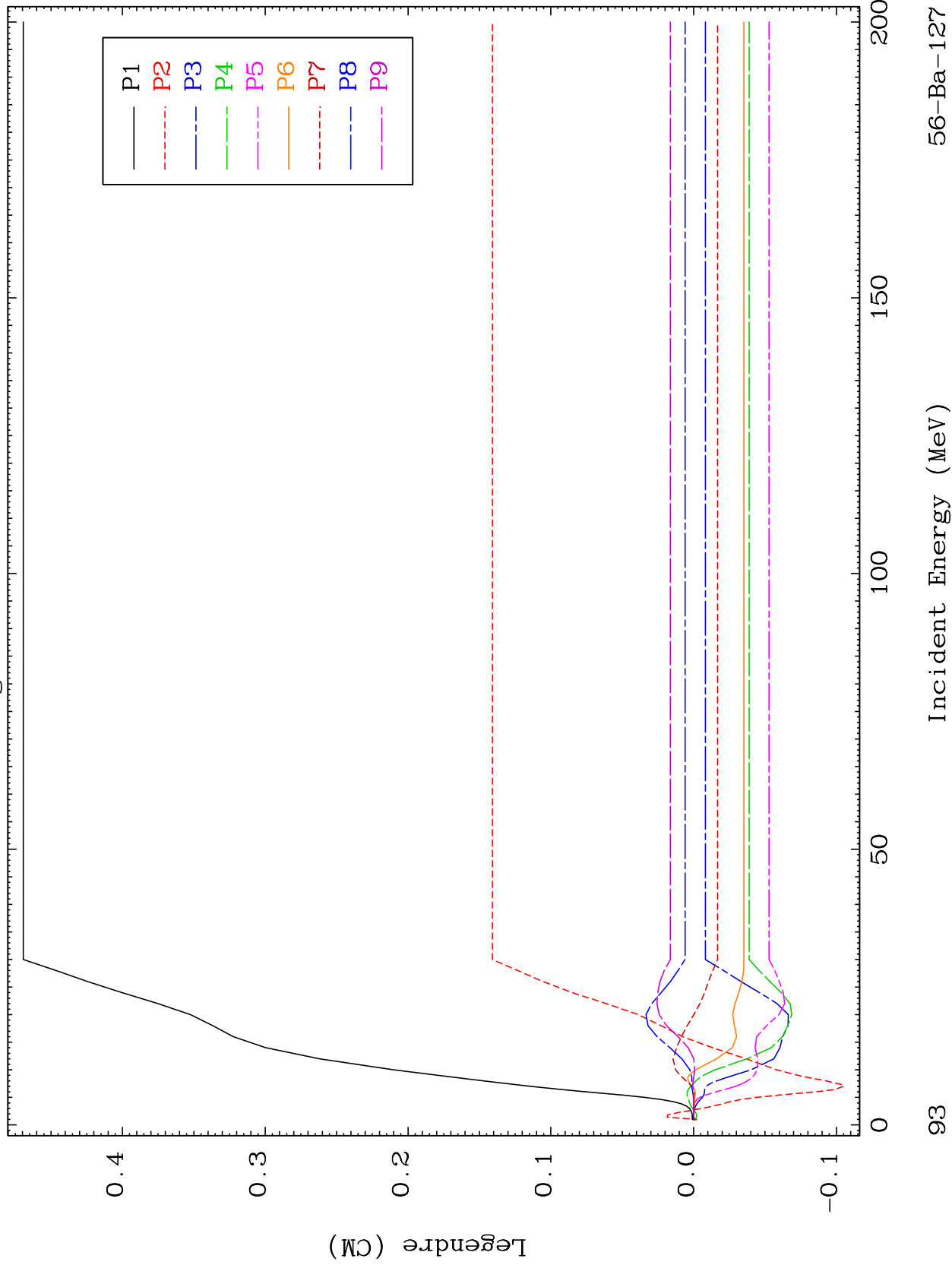
56-Ba-127



MAT 5616

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

56-Ba-127



56-Ba-127

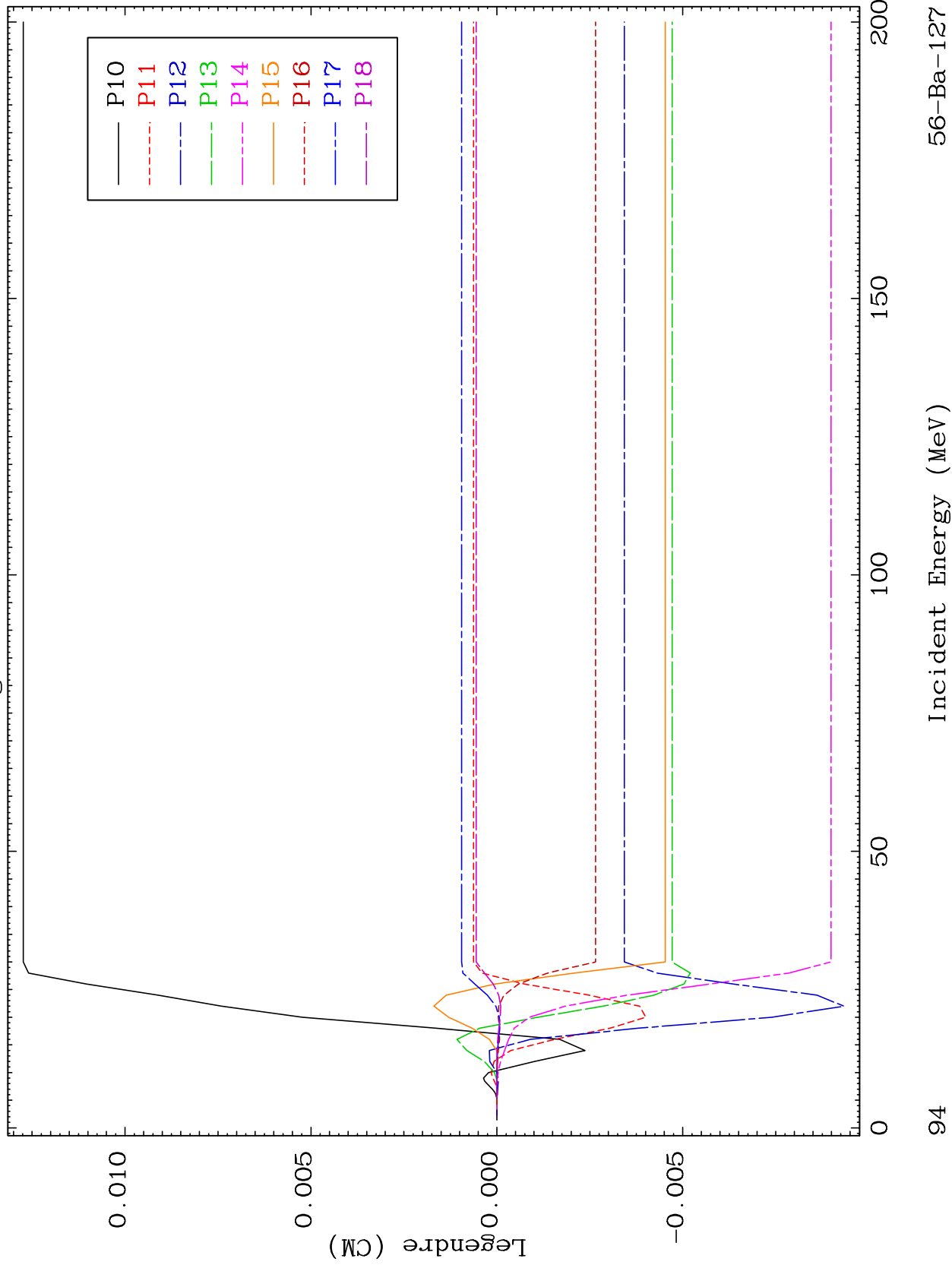
Incident Energy (MeV)

93

MAT 5616

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

56-Ba-127



94

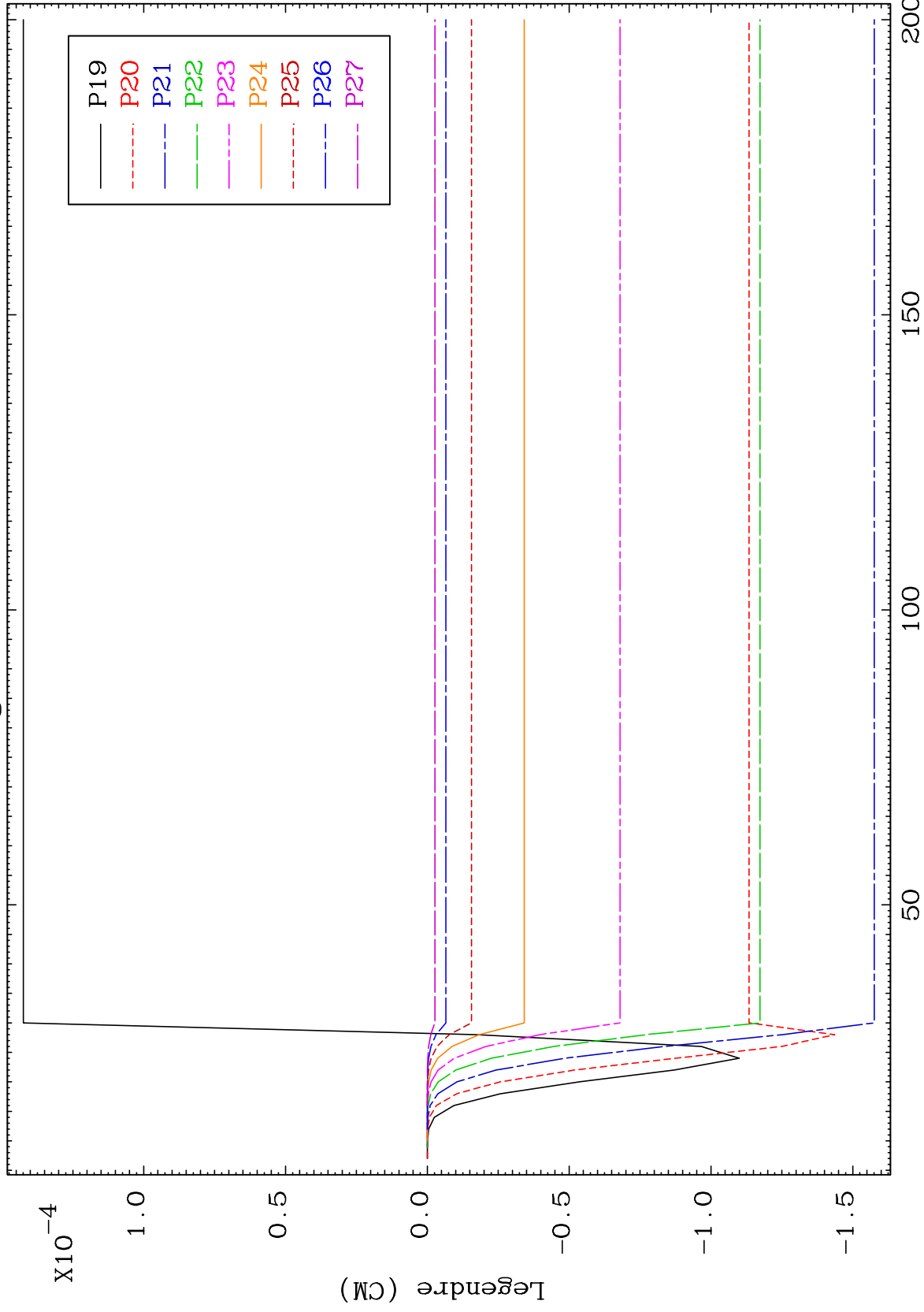
Incident Energy (MeV)

56-Ba-127

MAT 5616

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

56-Ba-127

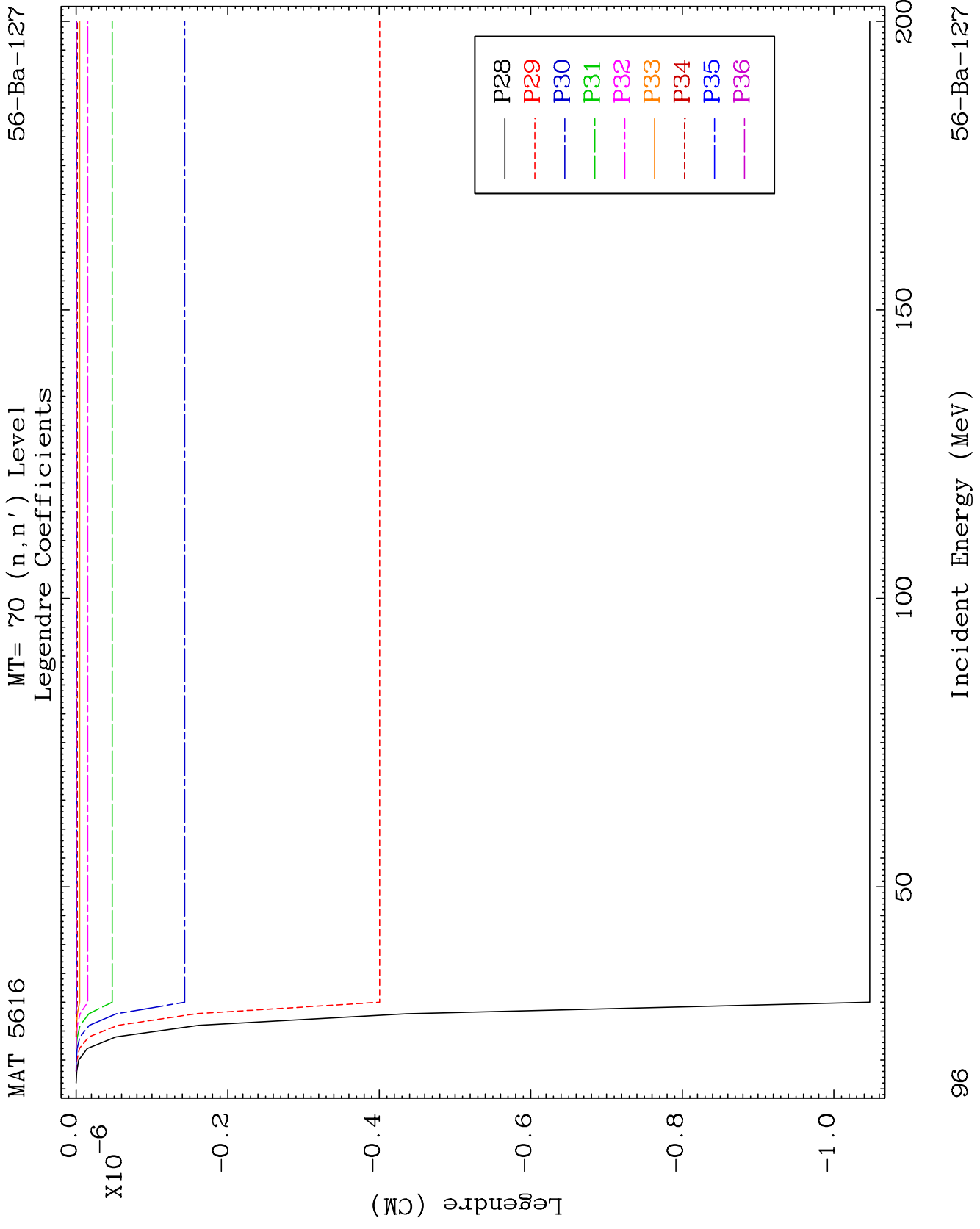


95

Incident Energy (MeV)

56-Ba-127

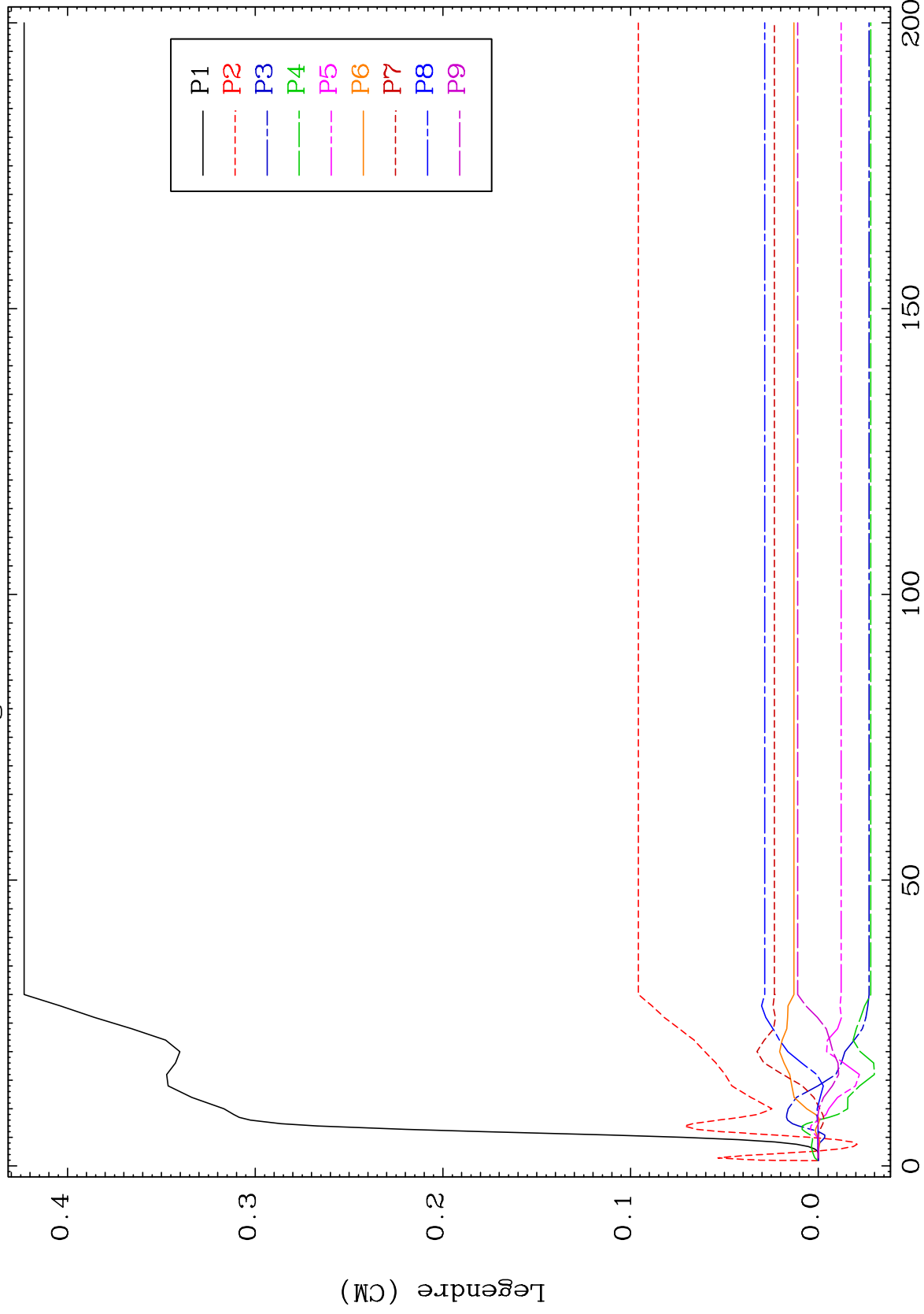




MAT 5616

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

56-Ba-127



97

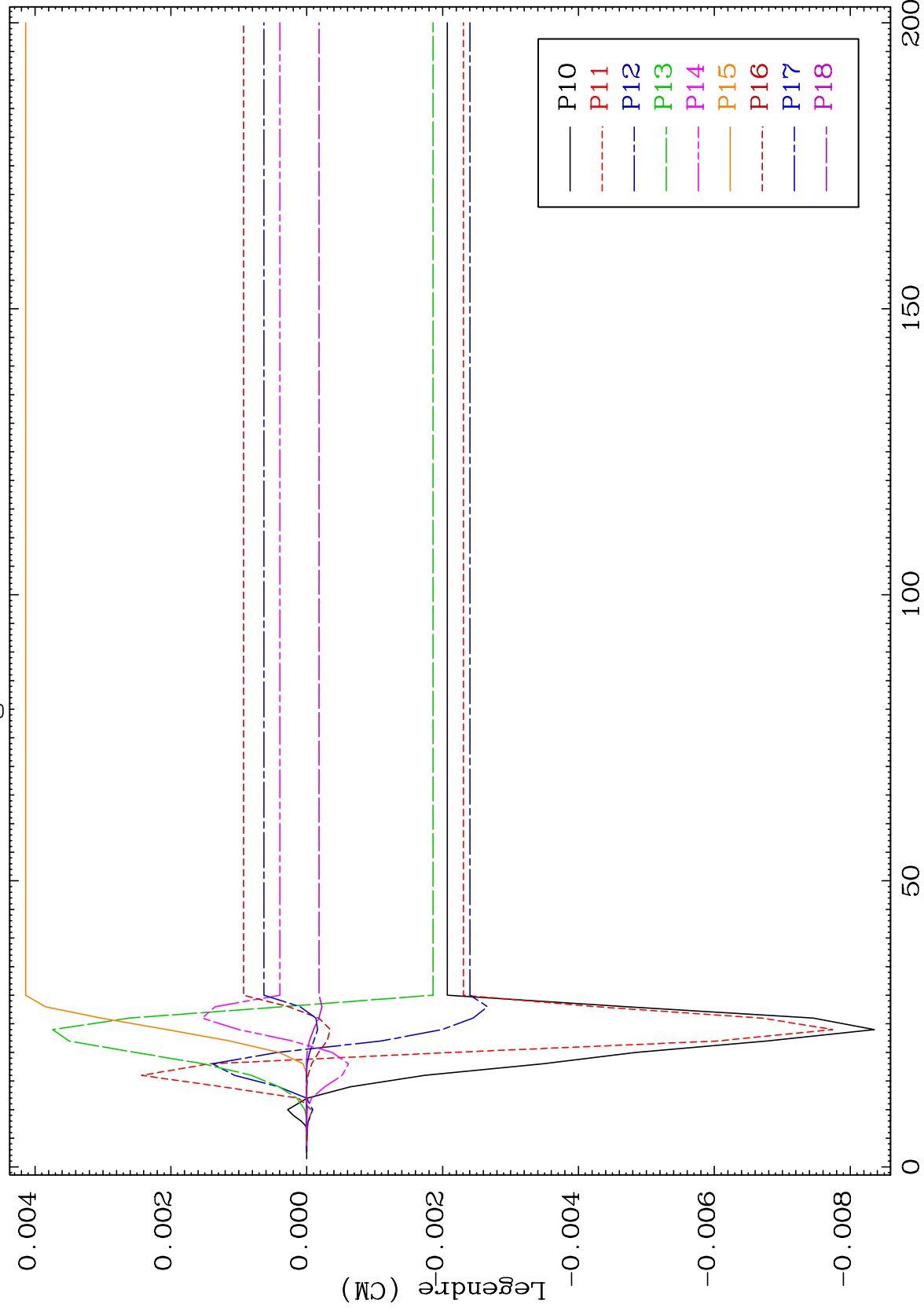
Incident Energy (MeV)

56-Ba-127

MAT 5616

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

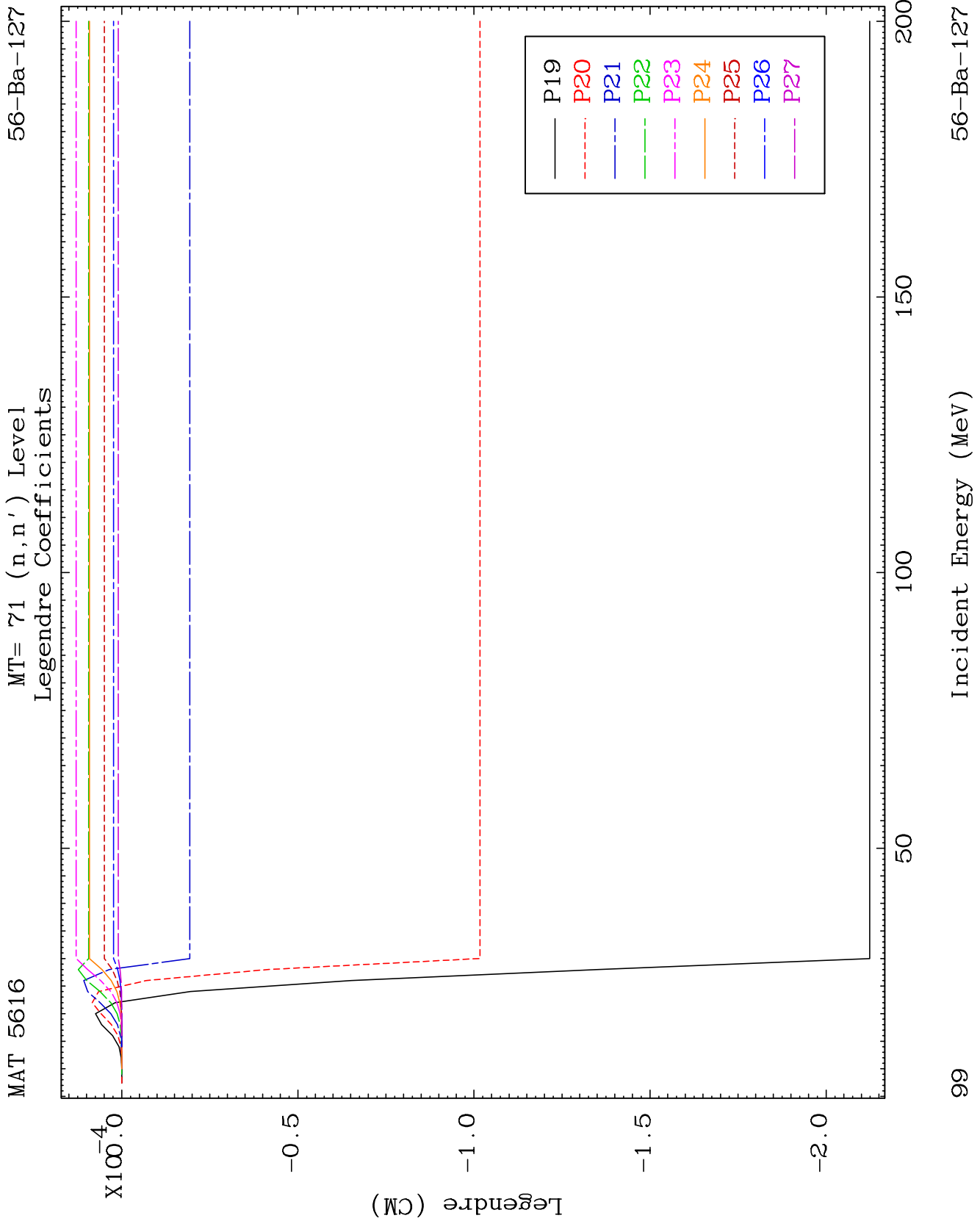
56-Ba-127



98

Incident Energy (MeV)

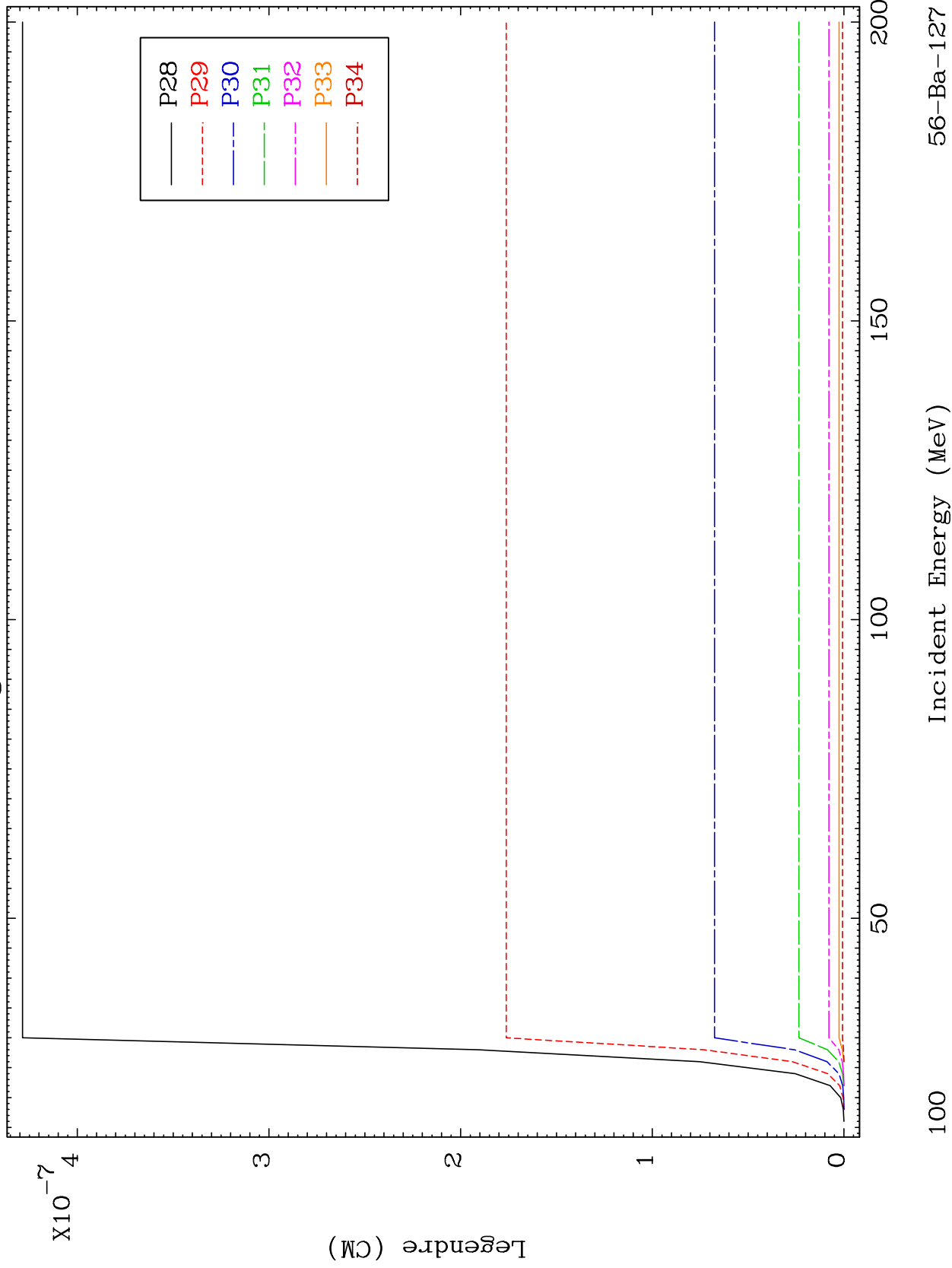
56-Ba-127



MAT 5616

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

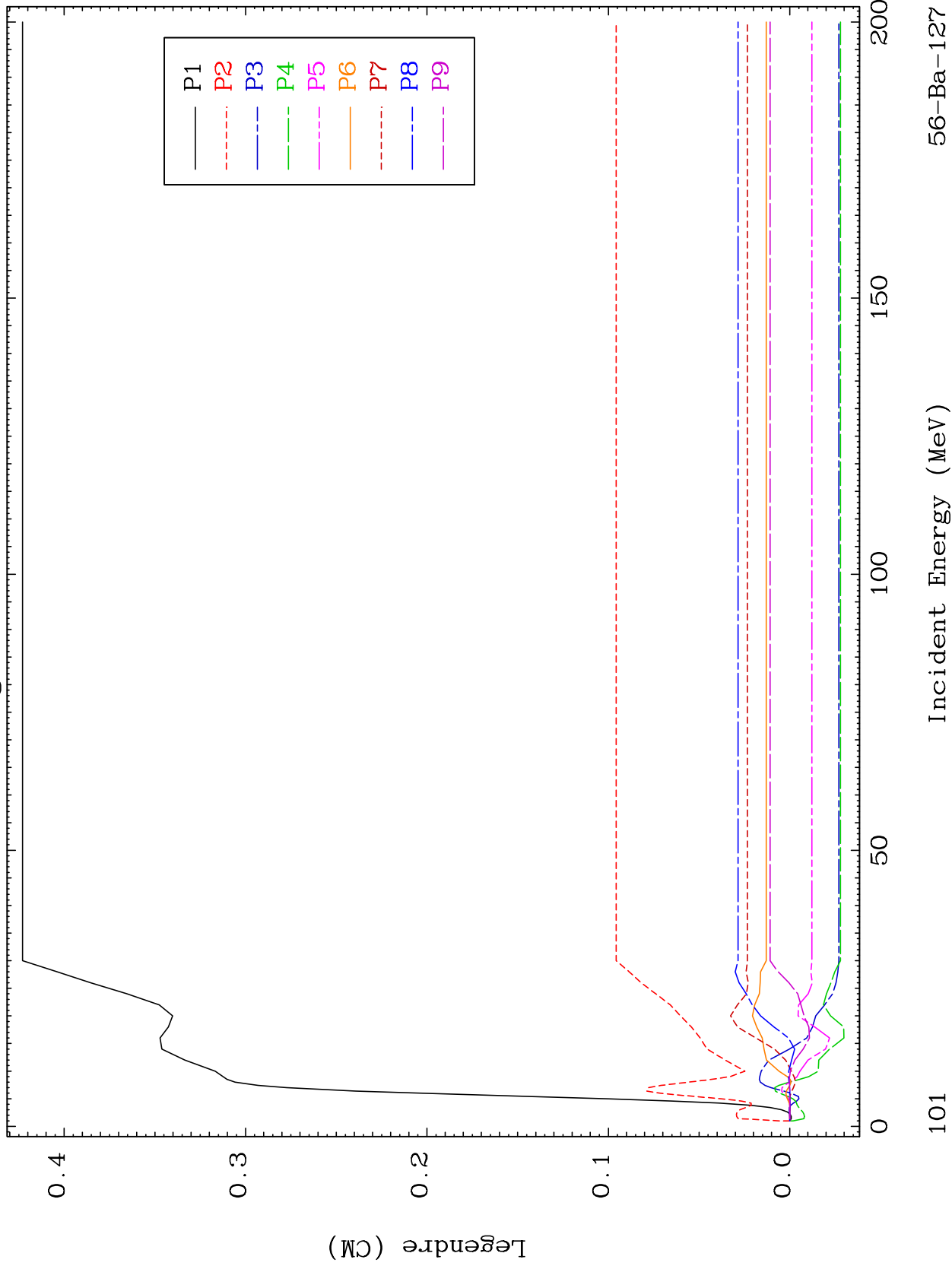
56-Ba-127



MAT 5616

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

56-Ba-127



56-Ba-127

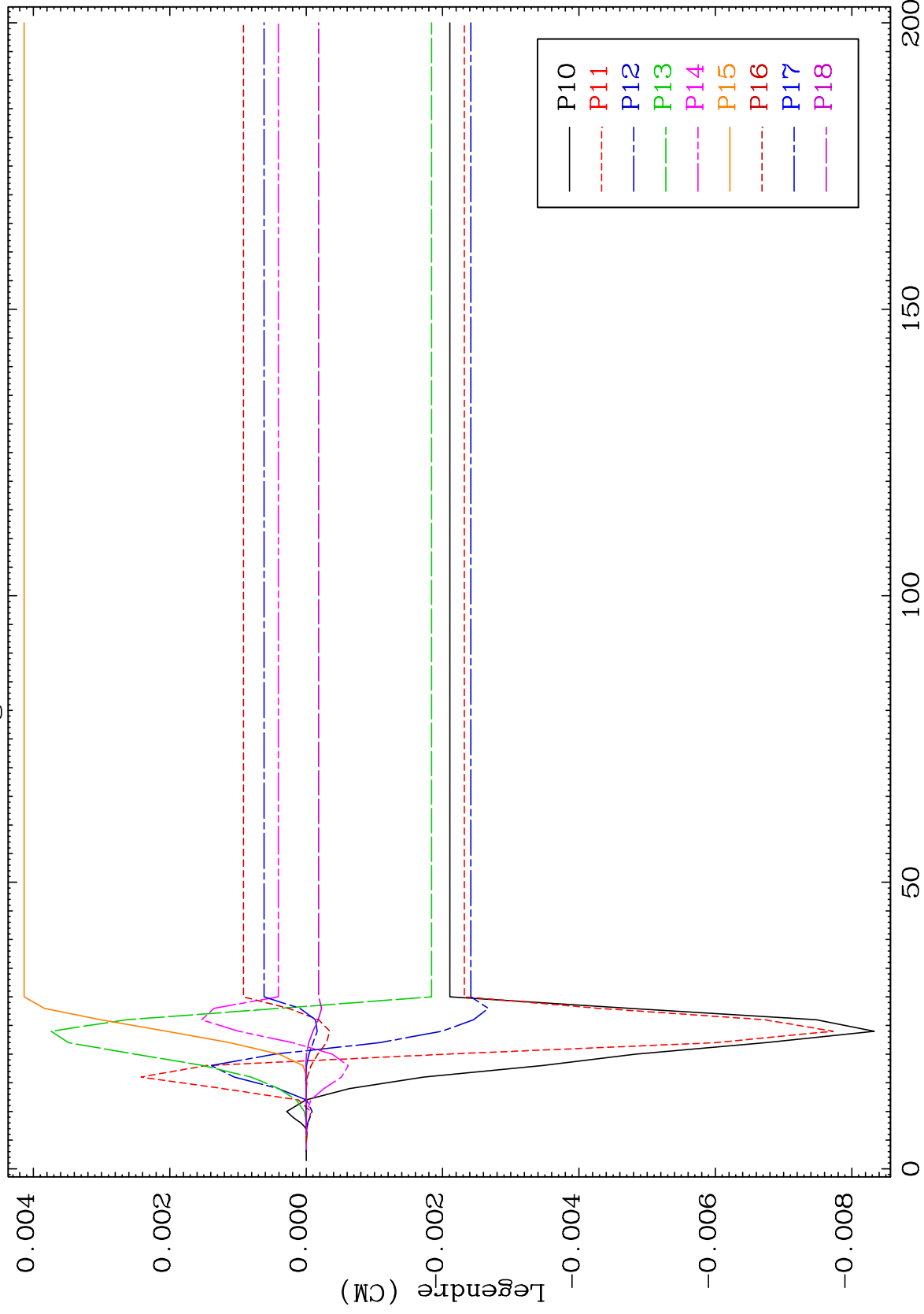
Incident Energy (MeV)

101

MAT 5616

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

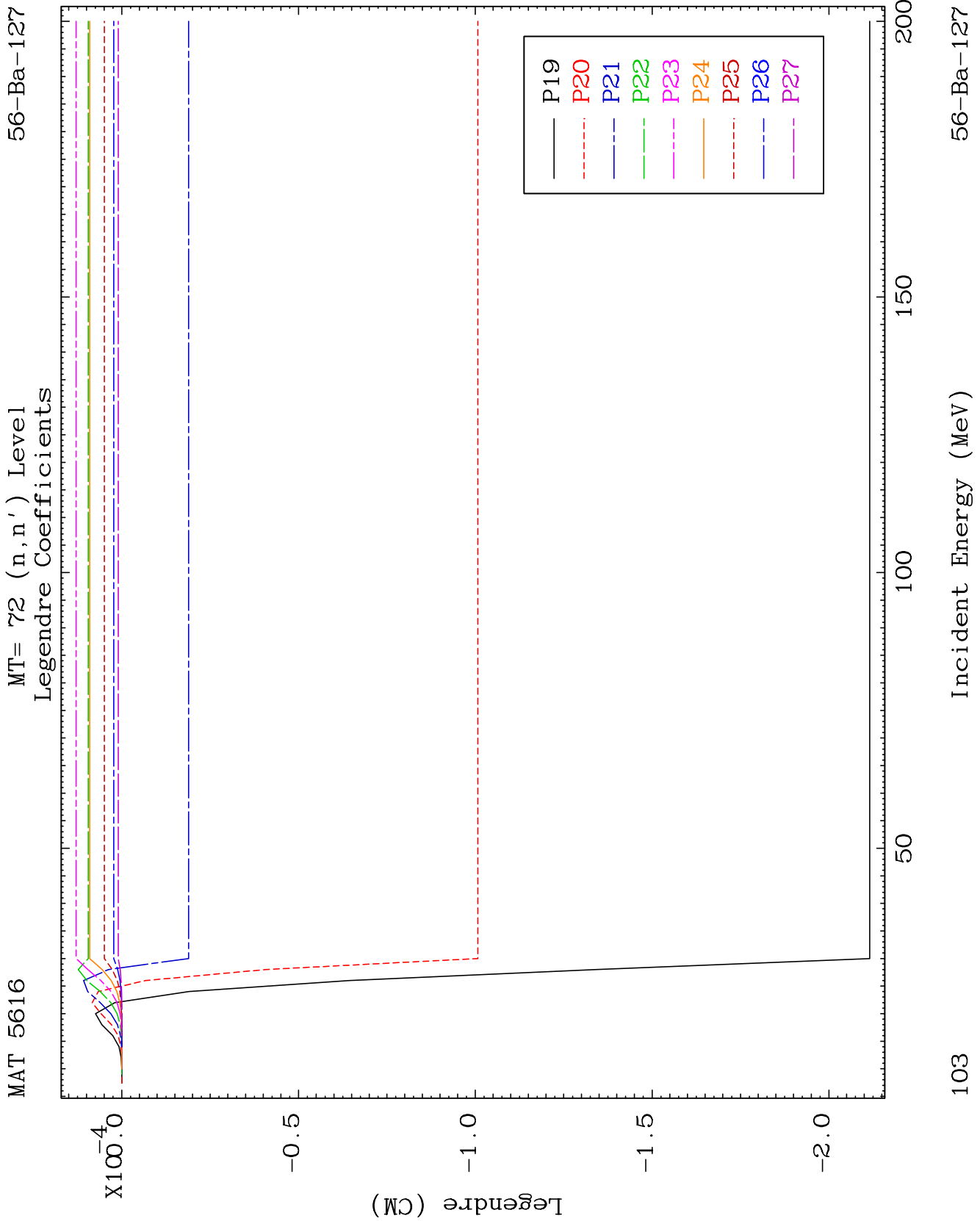
56-Ba-127



102

Incident Energy (MeV)

56-Ba-127

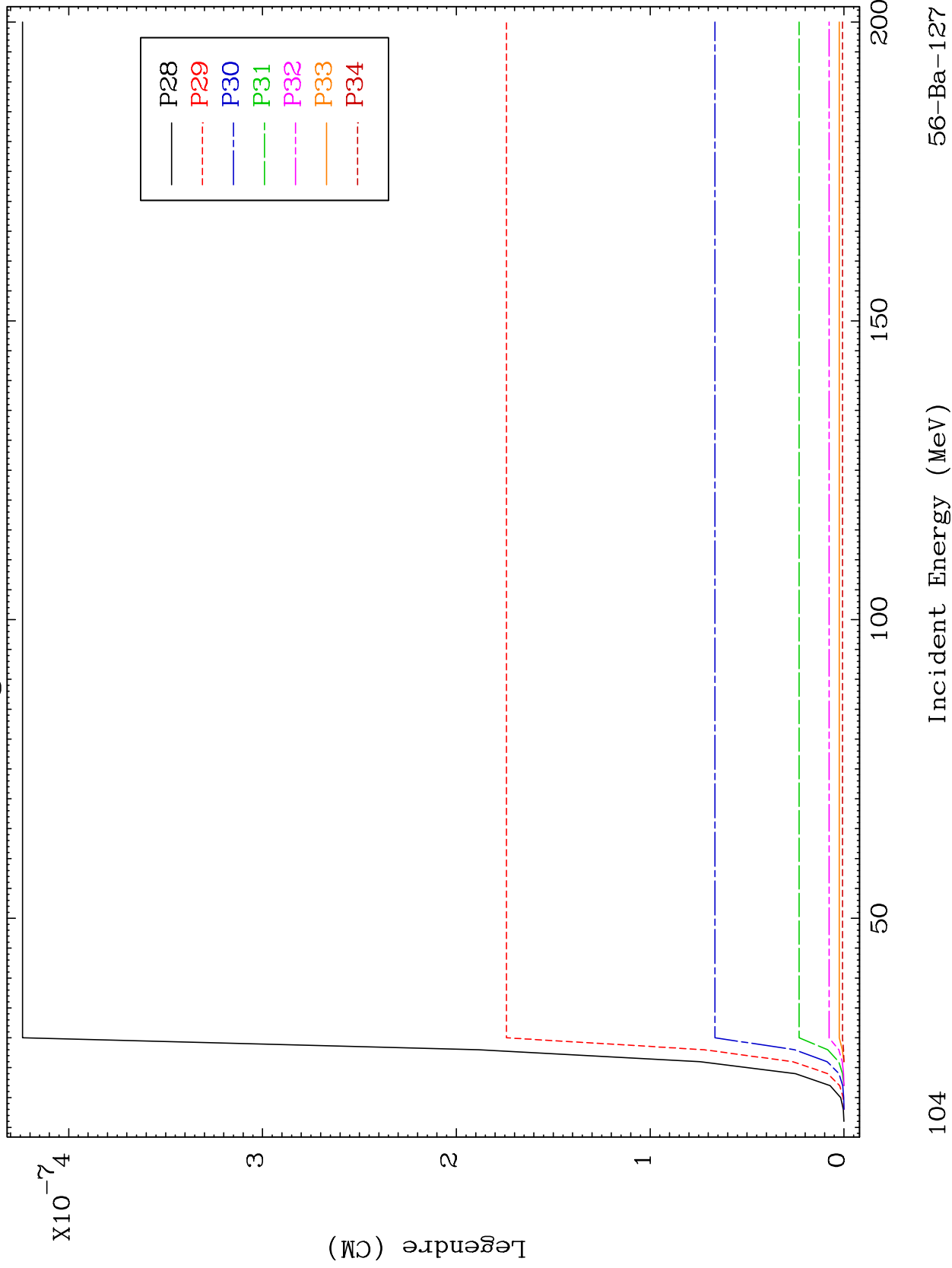




MAT 5616

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

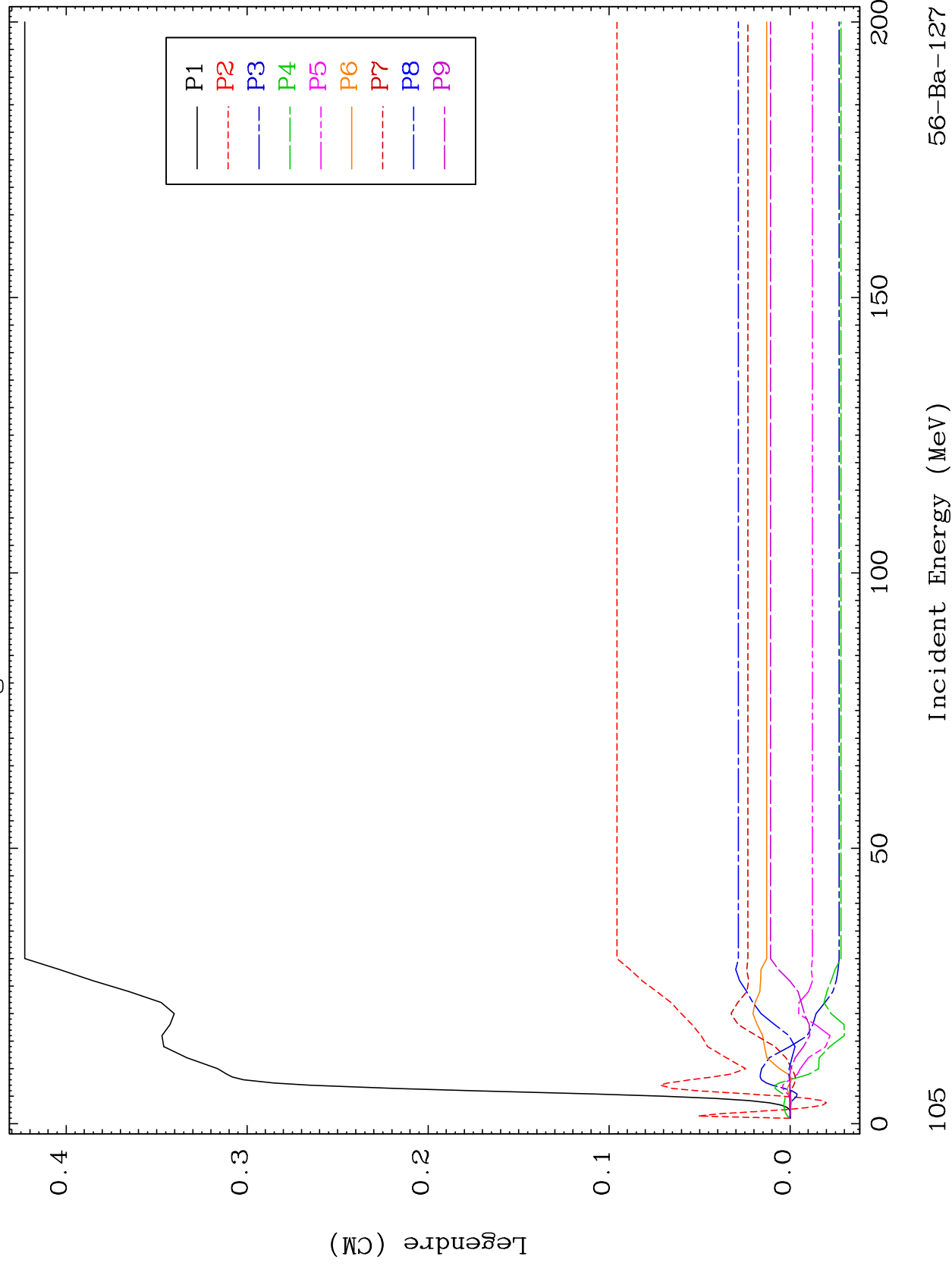
56-Ba-127



MAT 5616

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

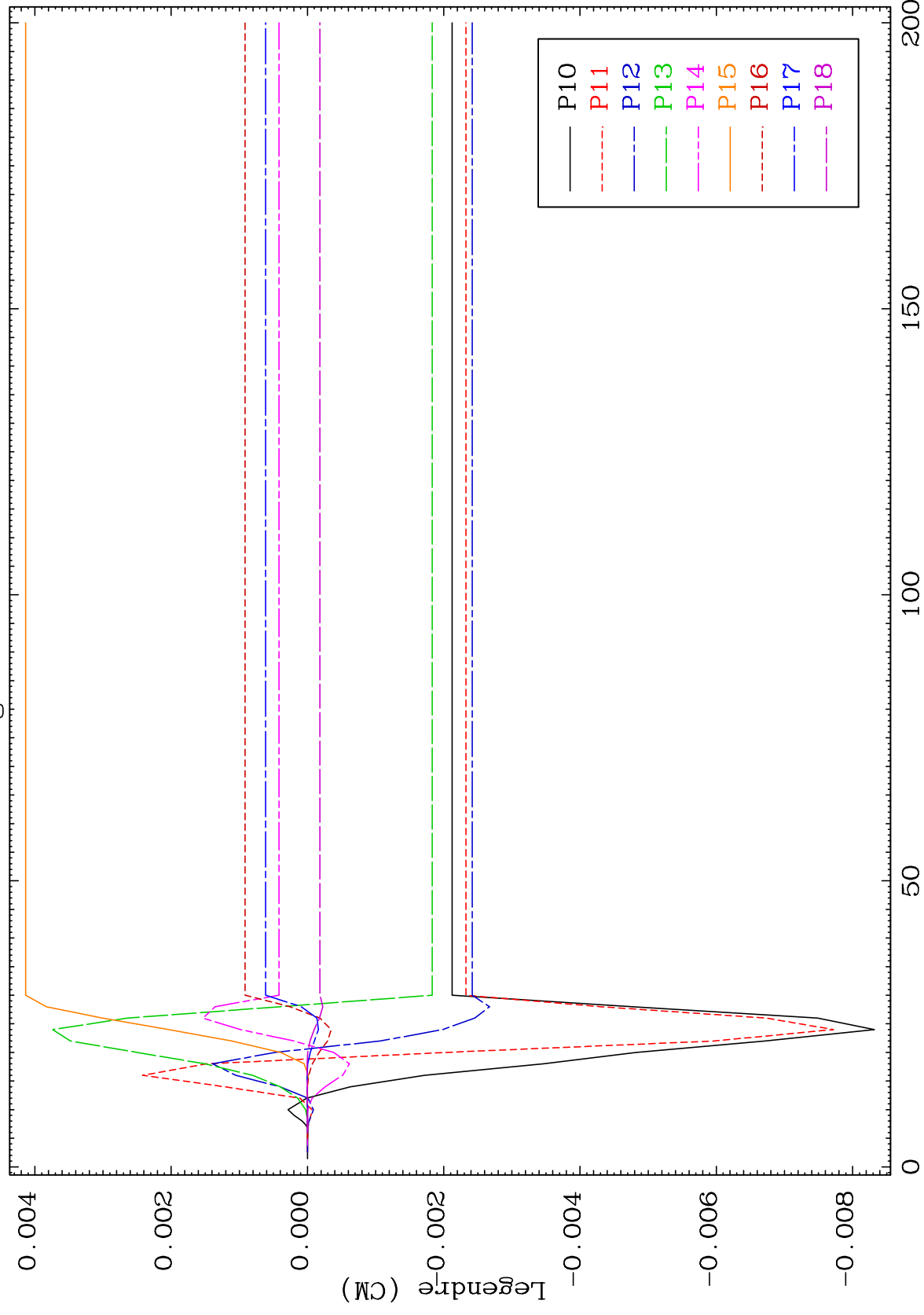
56-Ba-127



MAT 5616

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

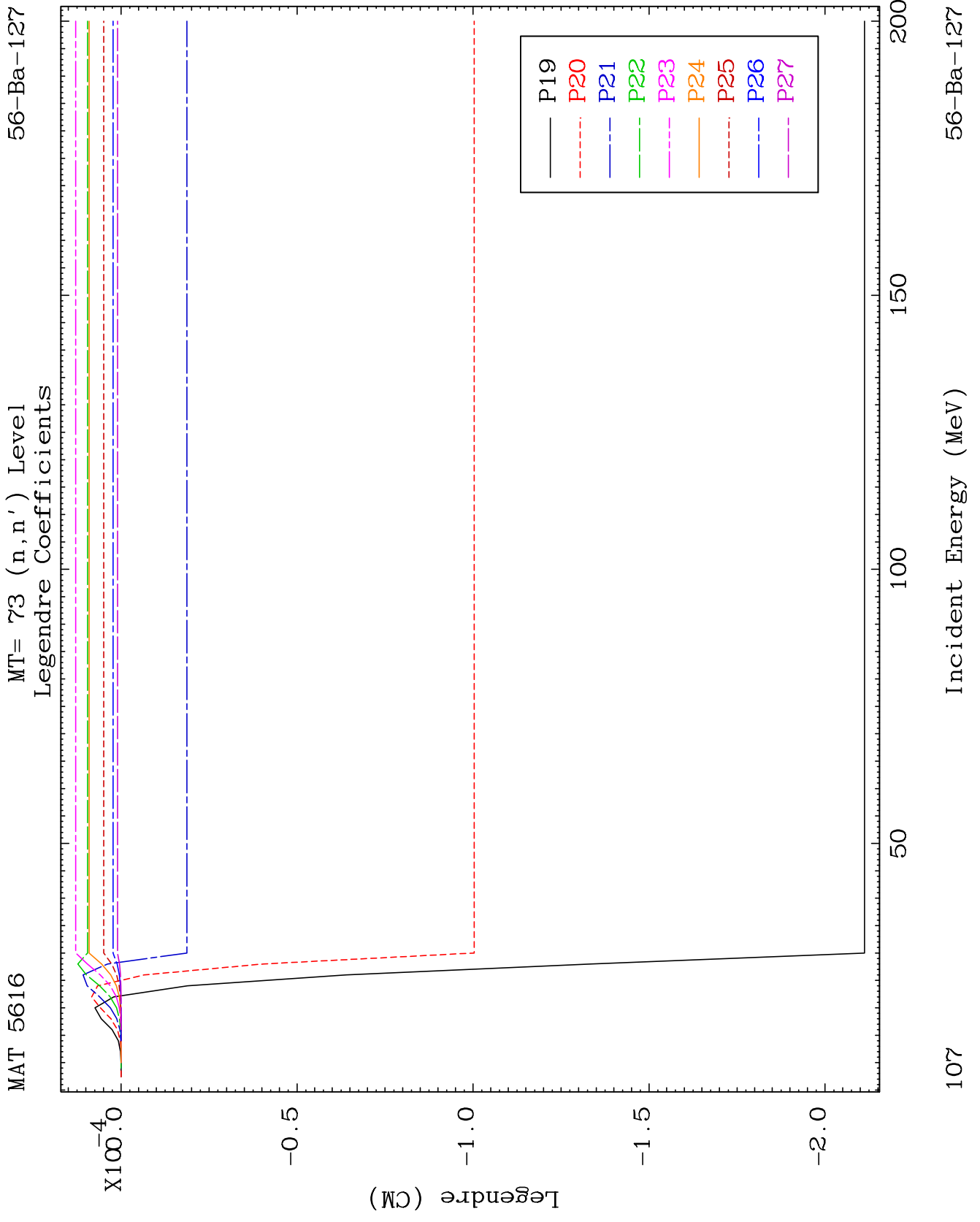
56-Ba-127



106

Incident Energy (MeV)

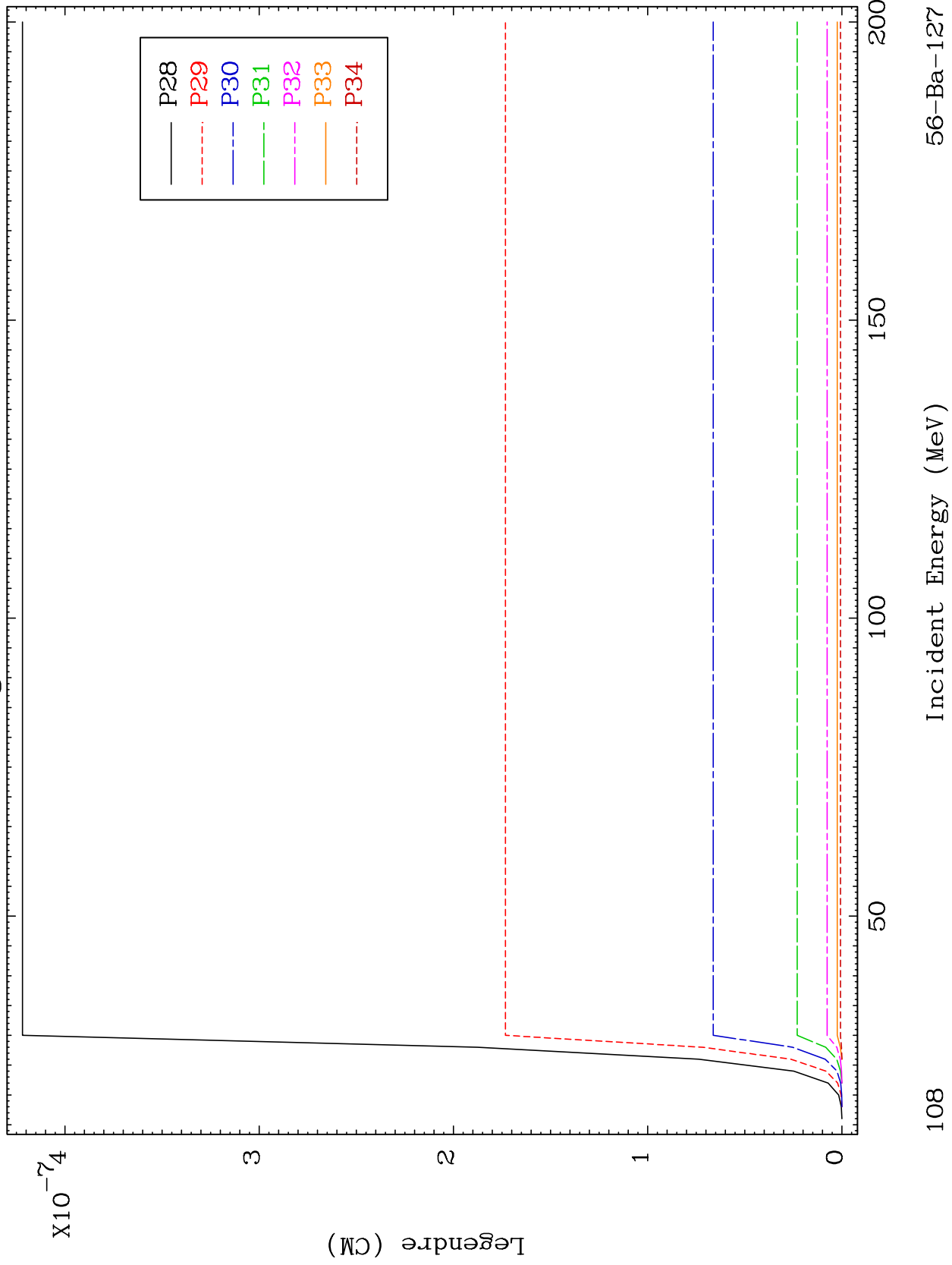
56-Ba-127



MAT 5616

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

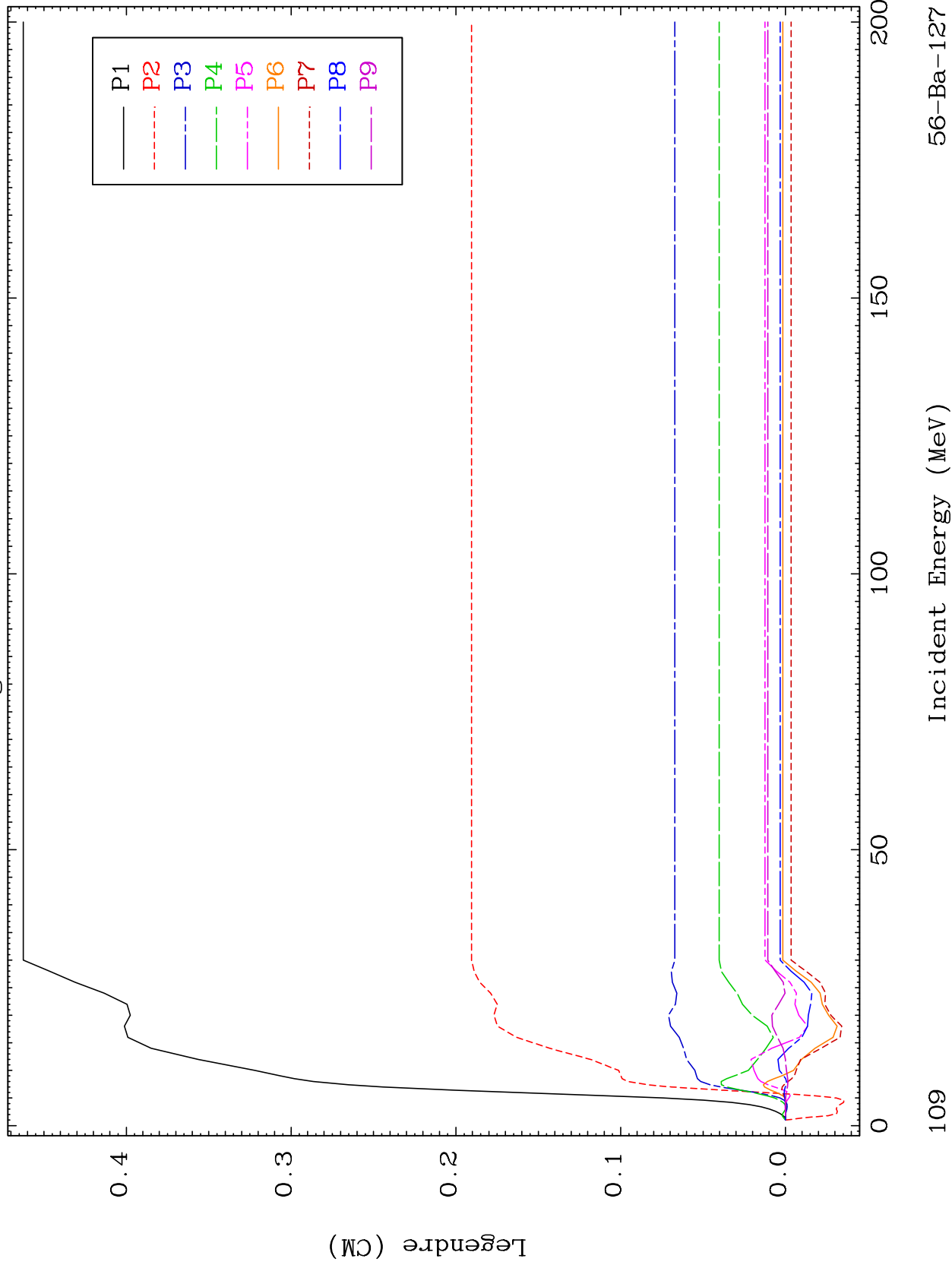
56-Ba-127



MAT 5616

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

56-Ba-127



56-Ba-127

Incident Energy (MeV)

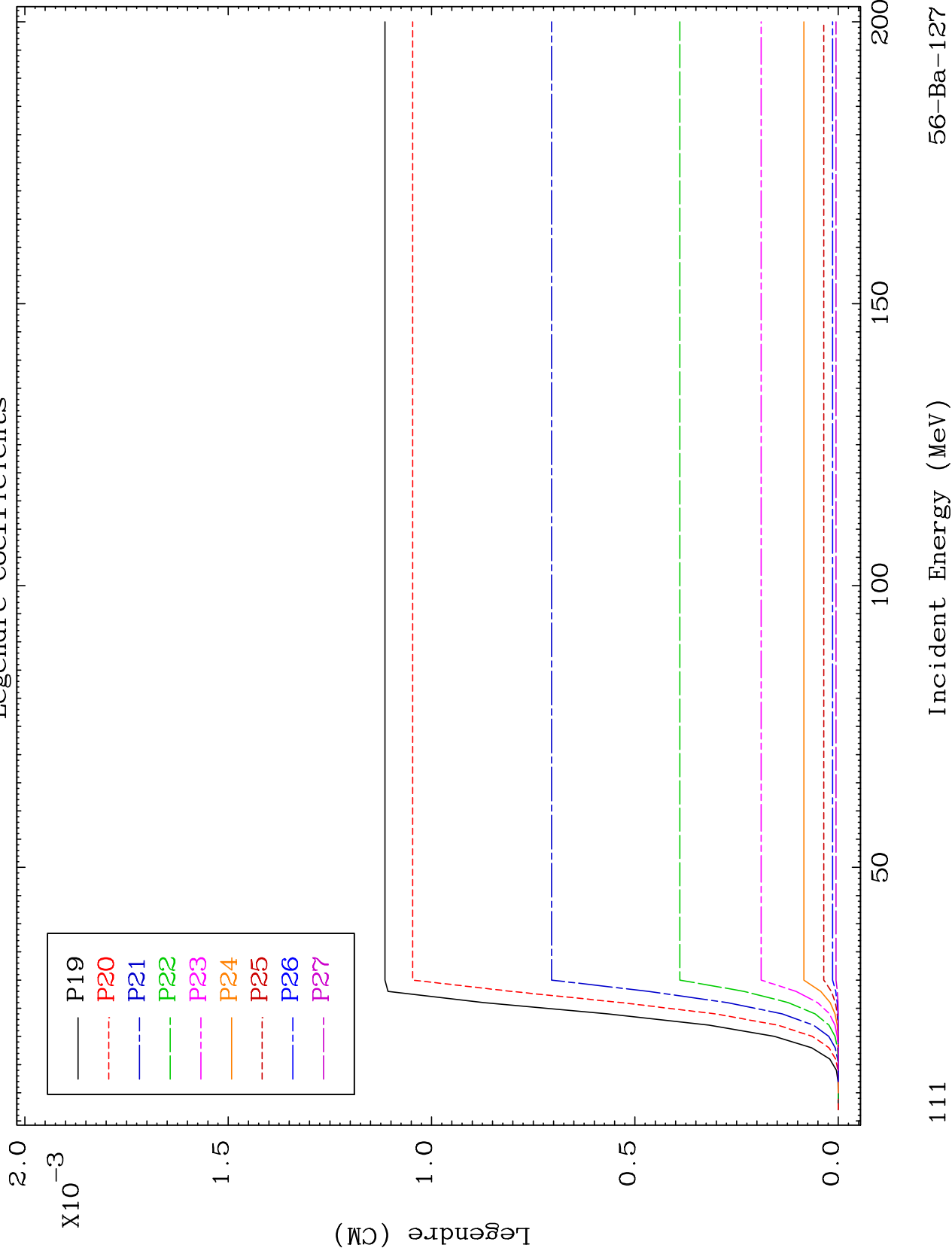
109



MAT 5616

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

56-Ba-127



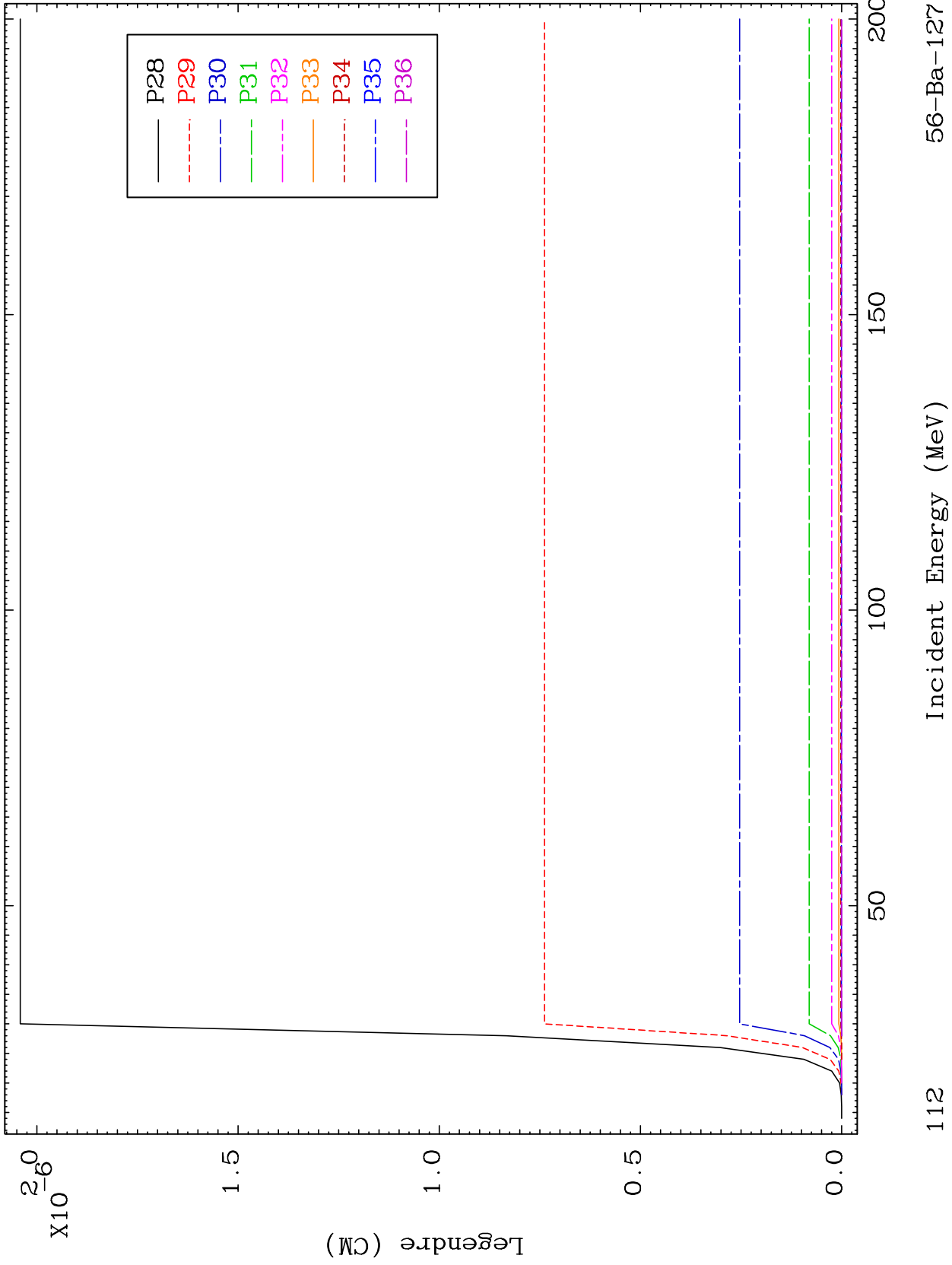
111



MAT 5616

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

56-Ba-127



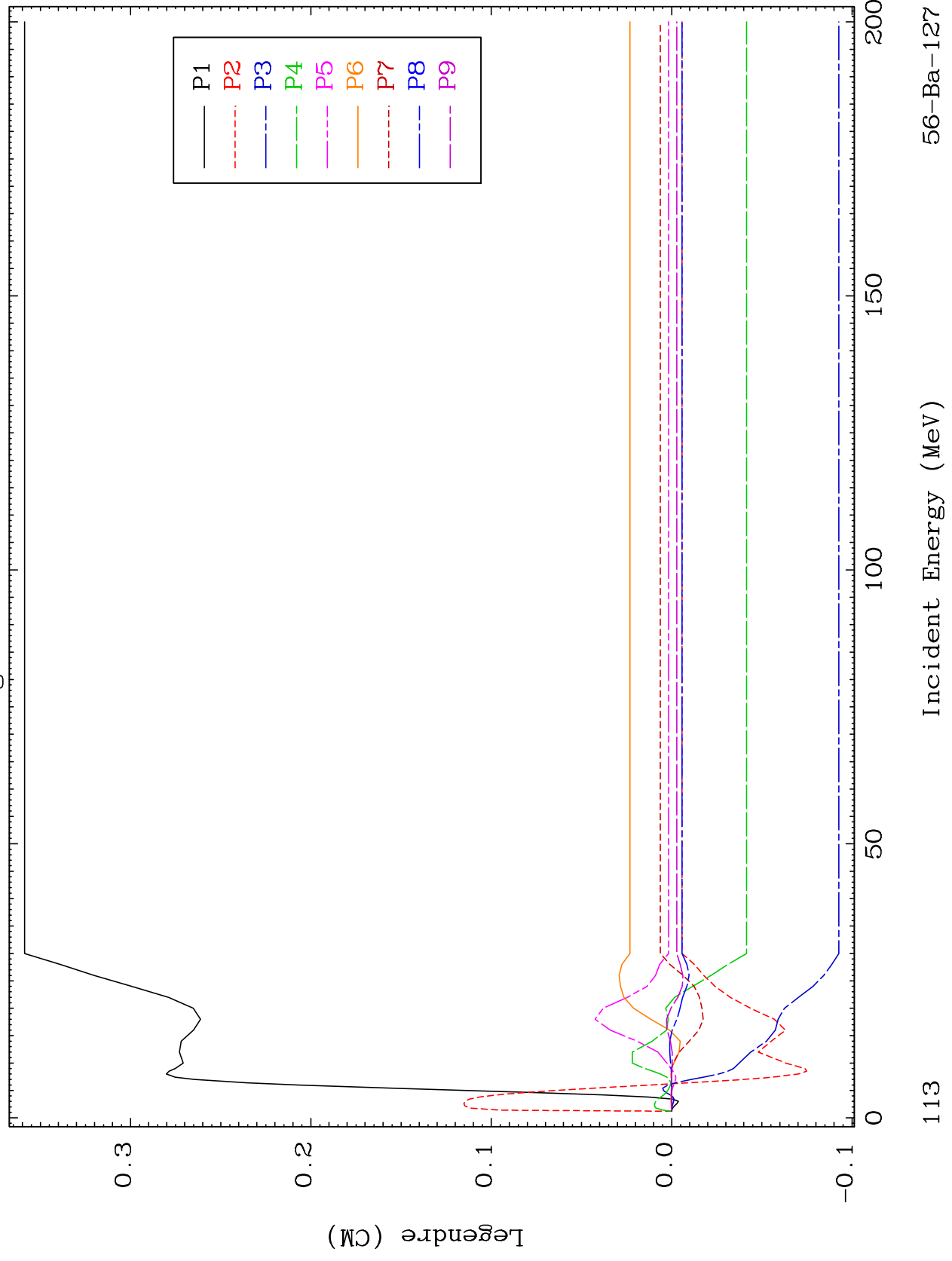
112

56-Ba-127

MAT 5616

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

56-Ba-127



56-Ba-127

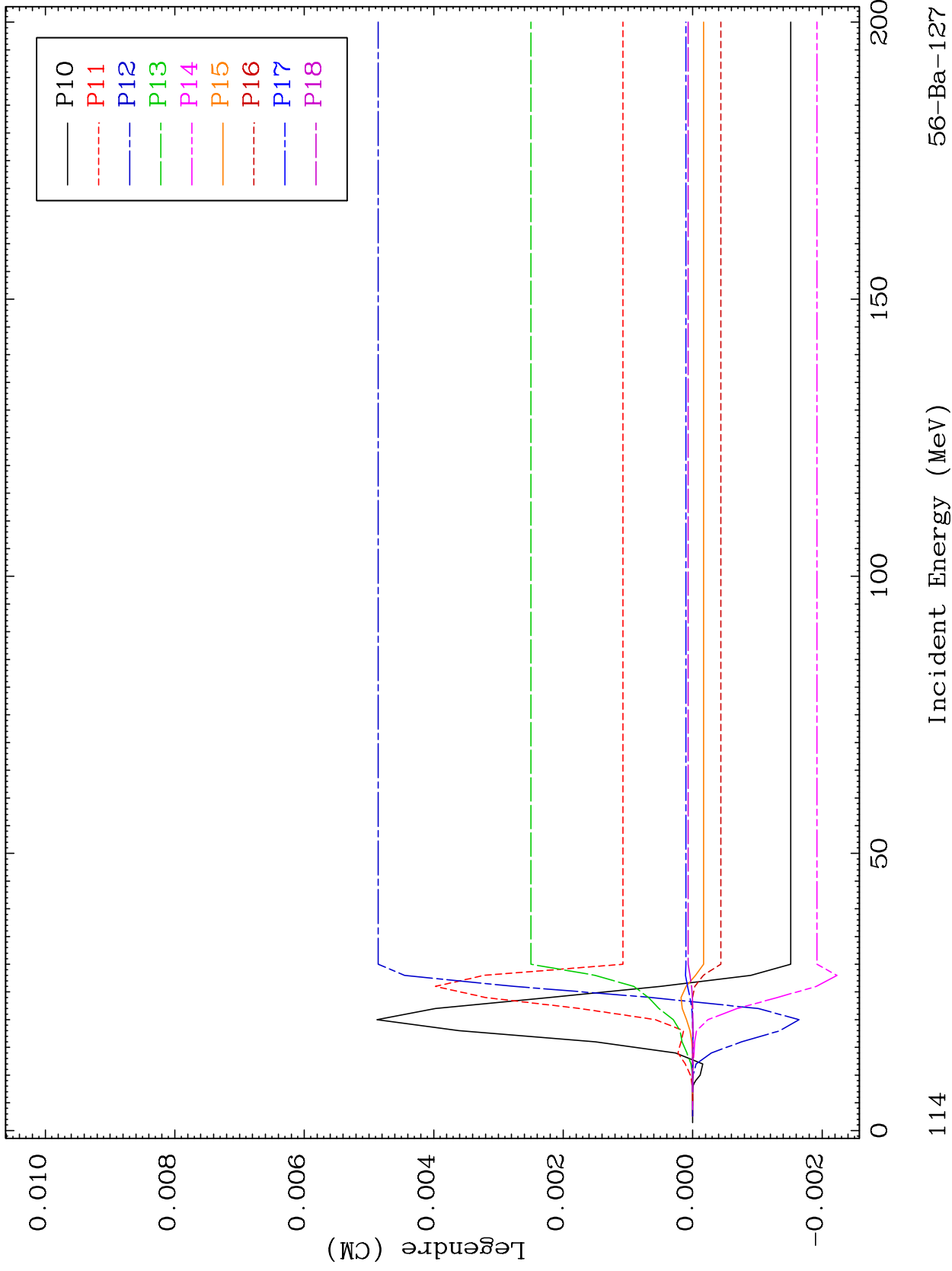
Incident Energy (MeV)

113

MAT 5616

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

56-Ba-127



114

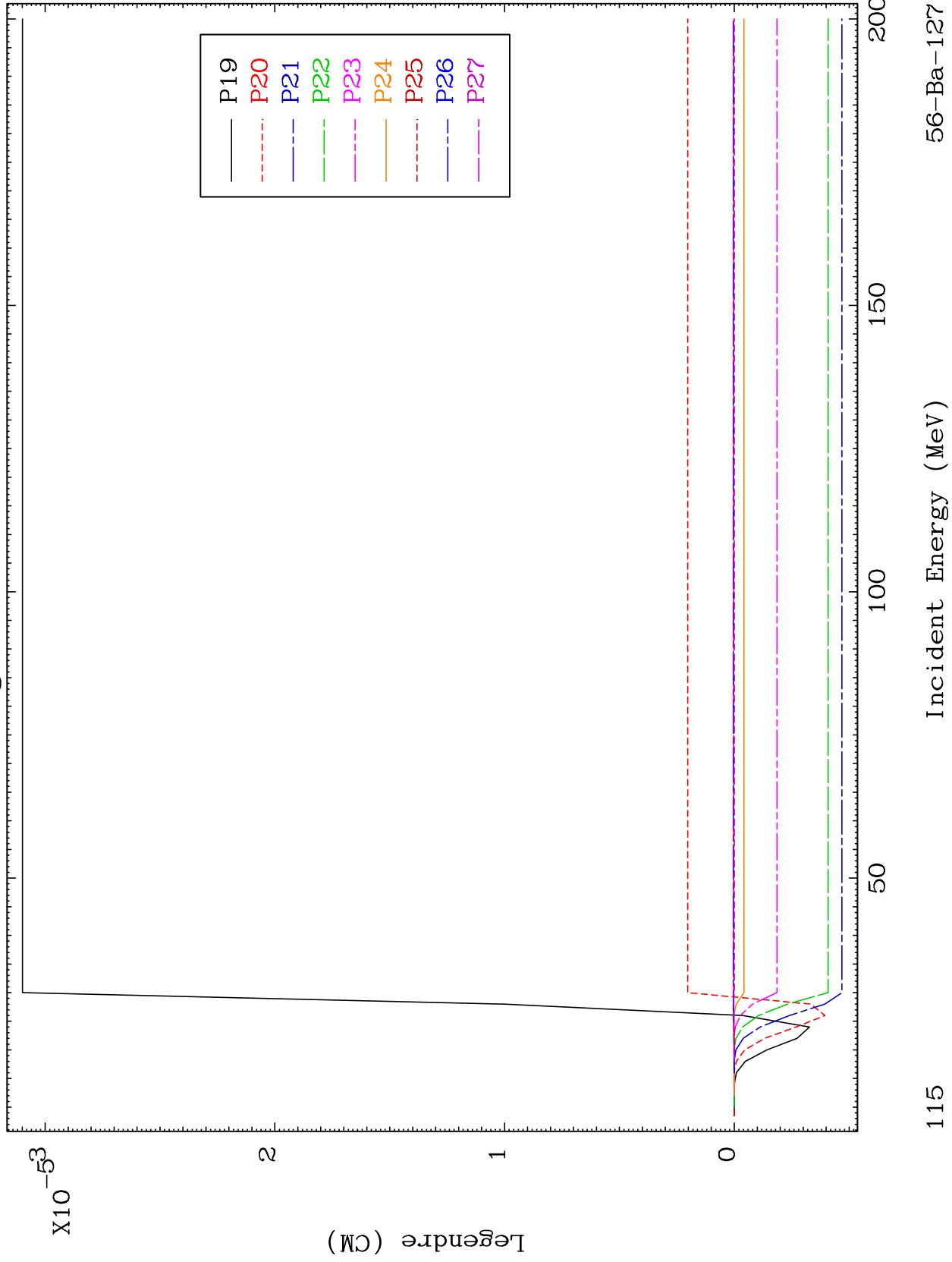
Incident Energy (MeV)

56-Ba-127

MAT 5616

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

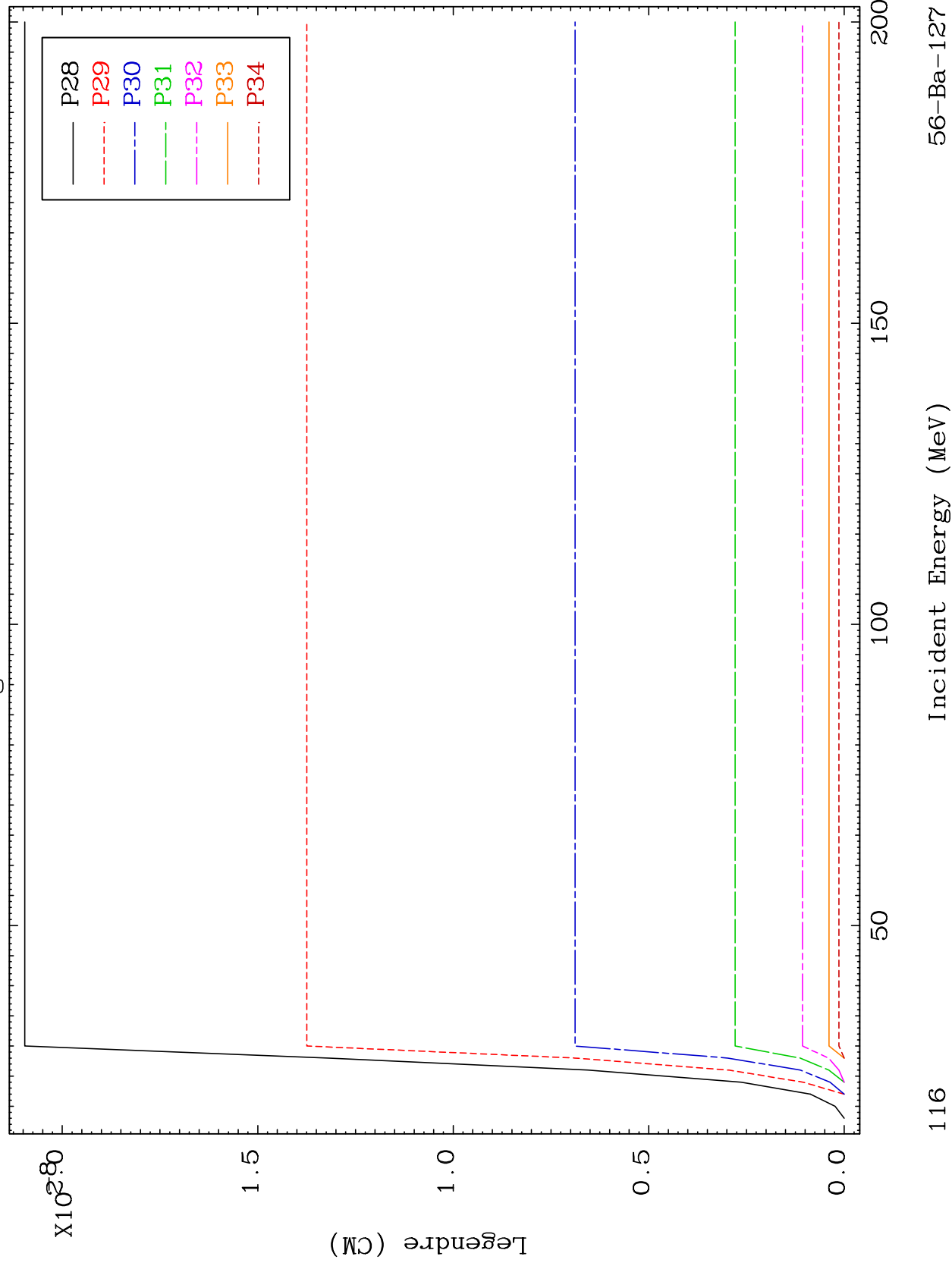
56-Ba-127



MAT 5616

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

56-Ba-127



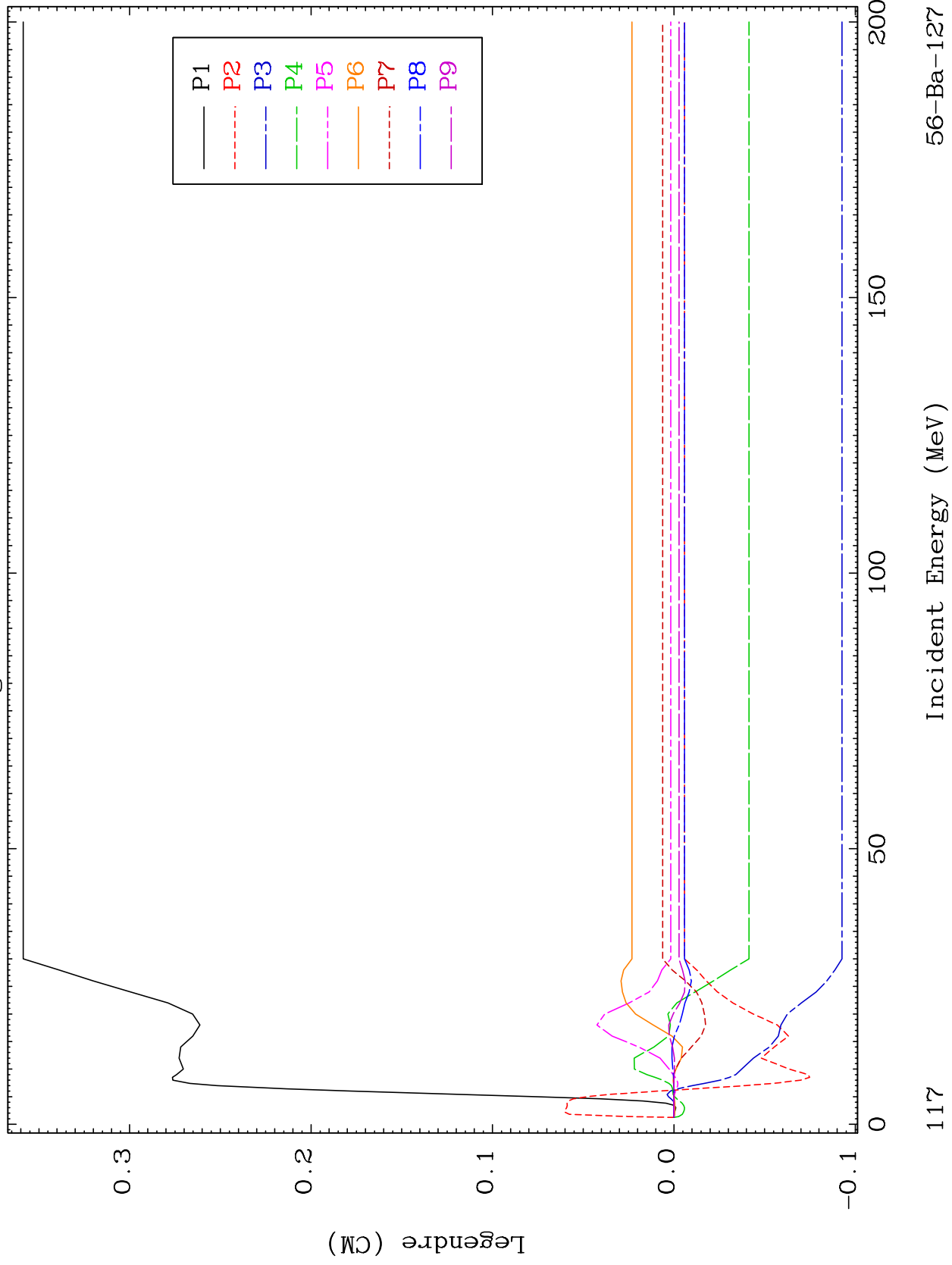
116

56-Ba-127

MAT 5616

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

56-Ba-127



56-Ba-127

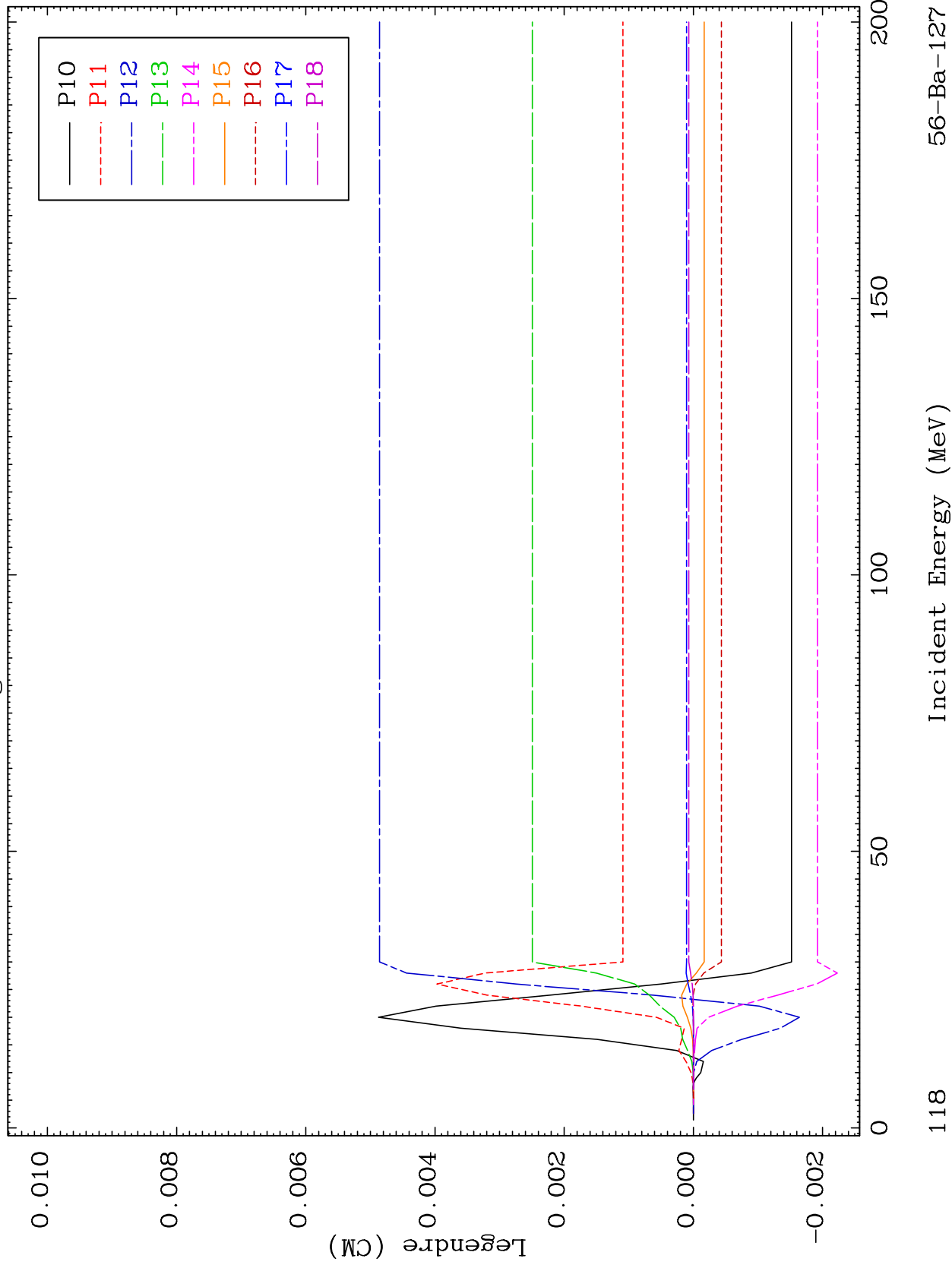
Incident Energy (MeV)

117

MAT 5616

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

56-Ba-127



118

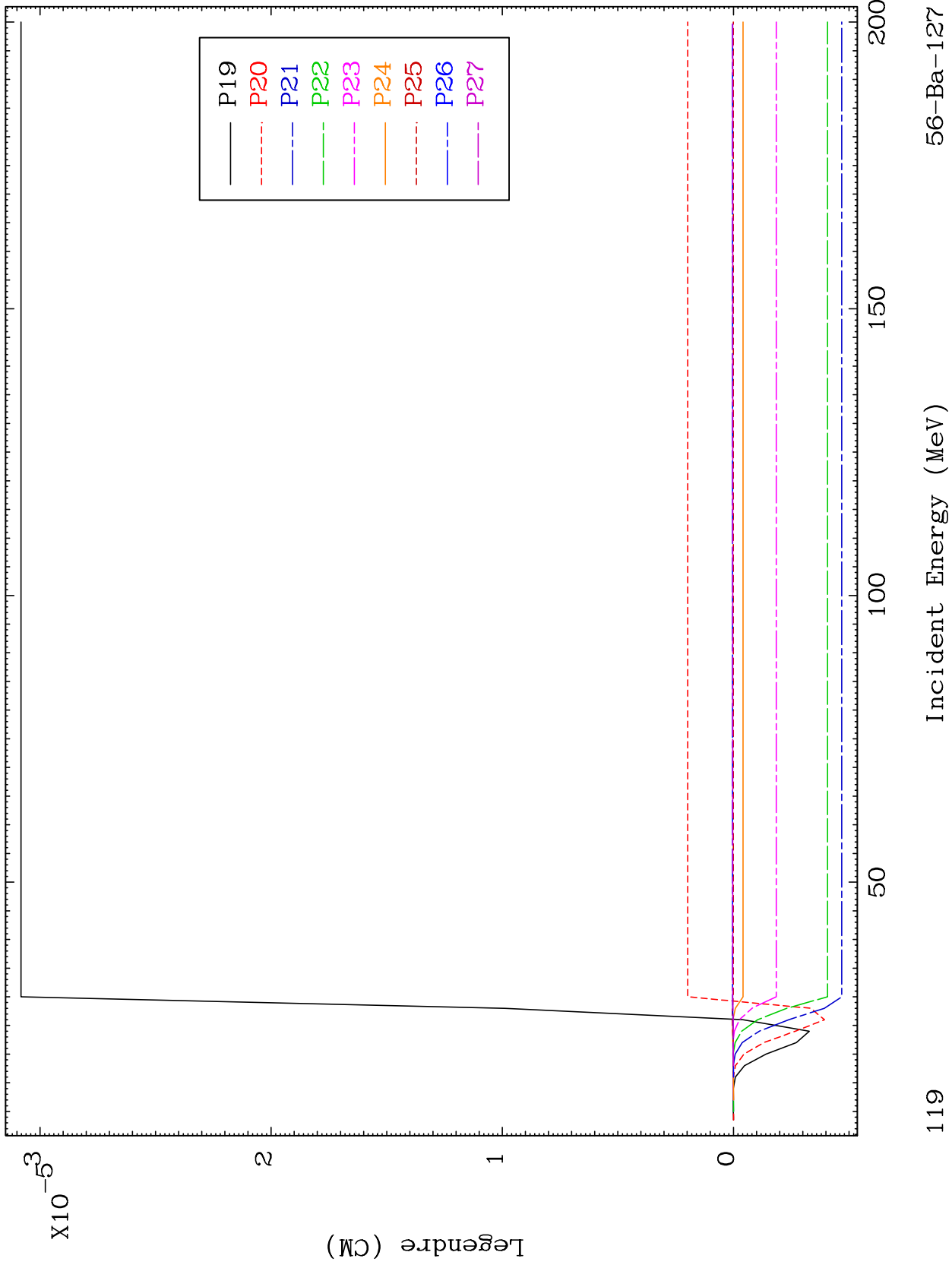
Incident Energy (MeV)

56-Ba-127

MAT 5616

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

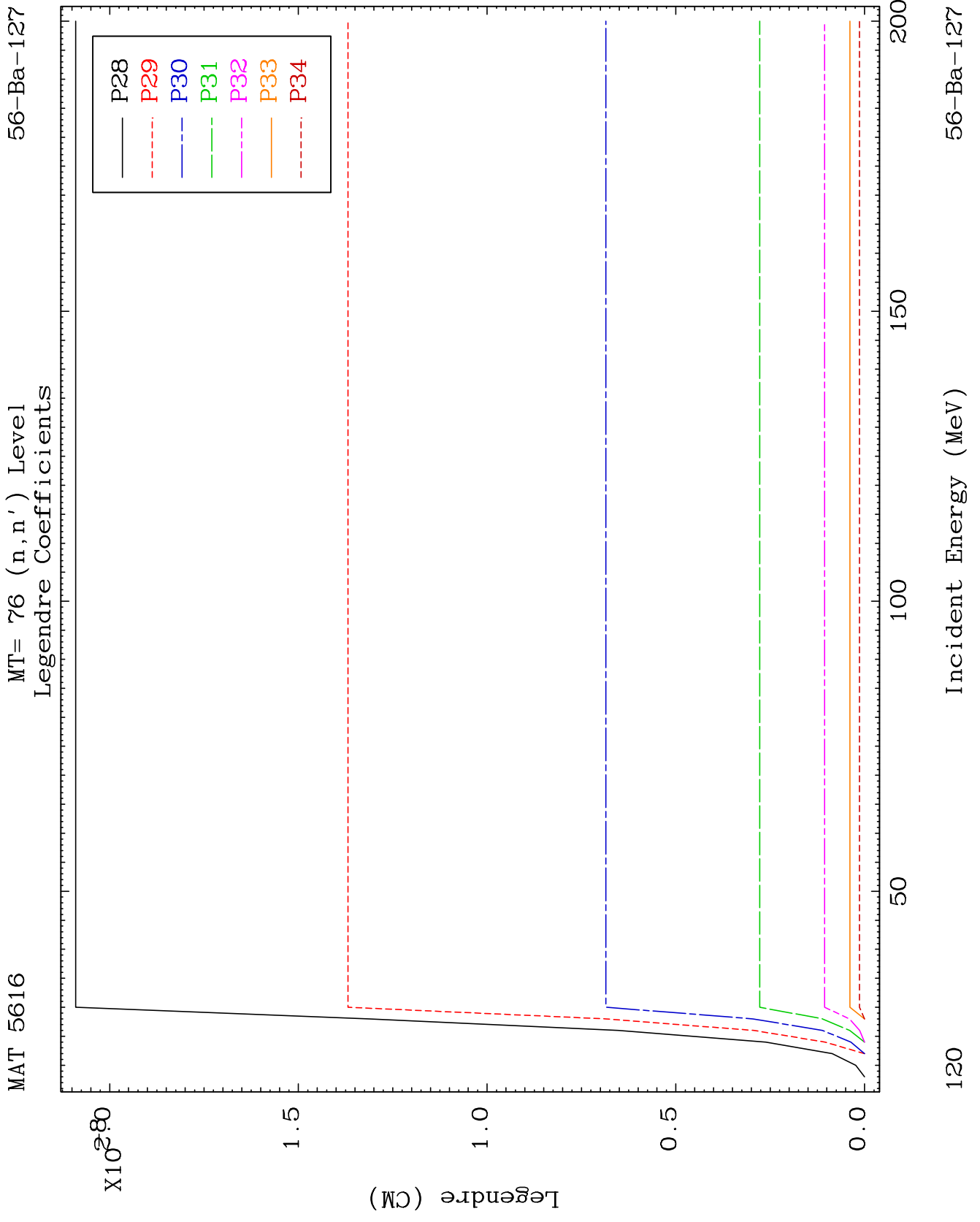
56-Ba-127



119

56-Ba-127

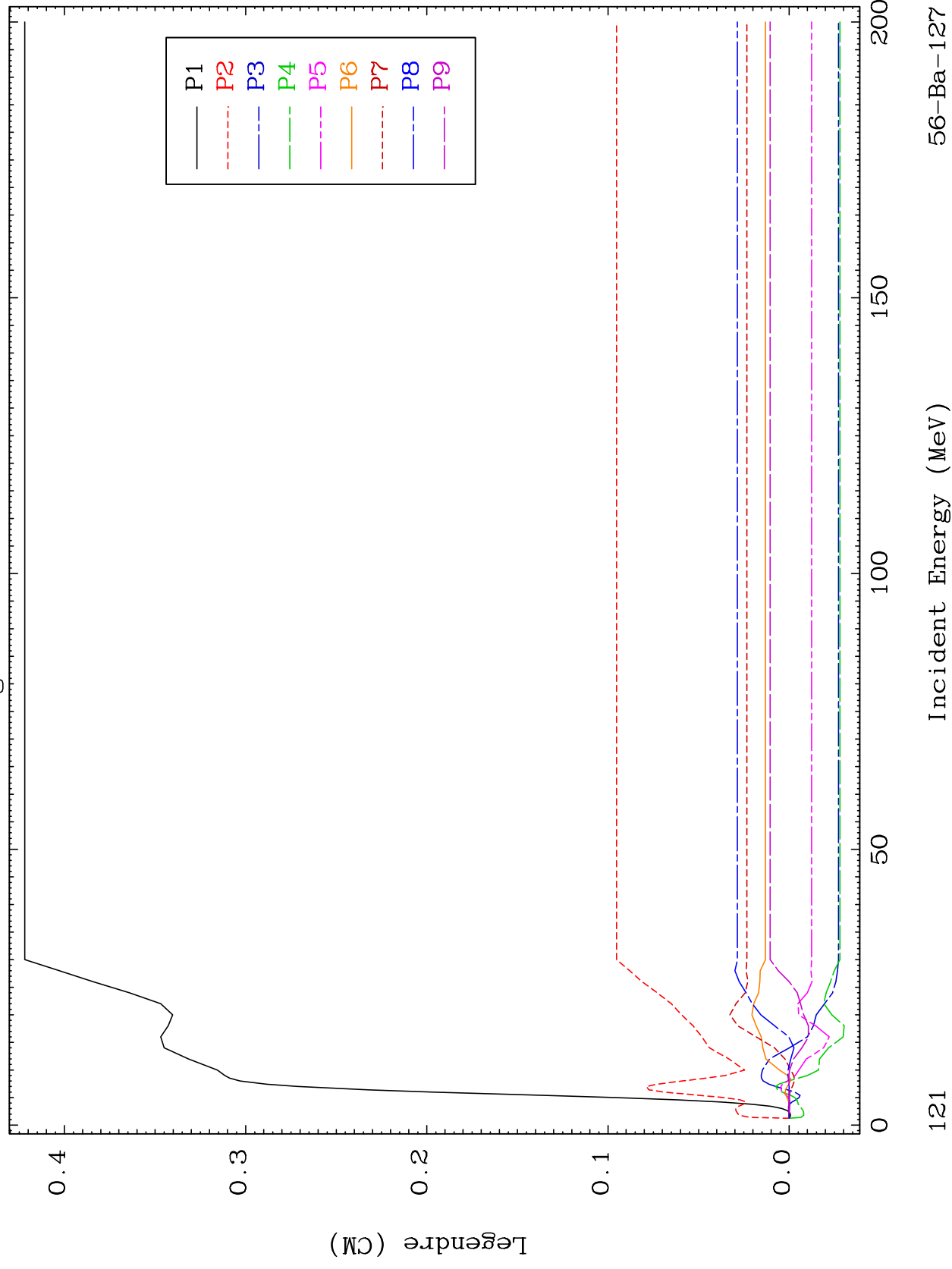




MAT 5616

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

56-Ba-127



56-Ba-127

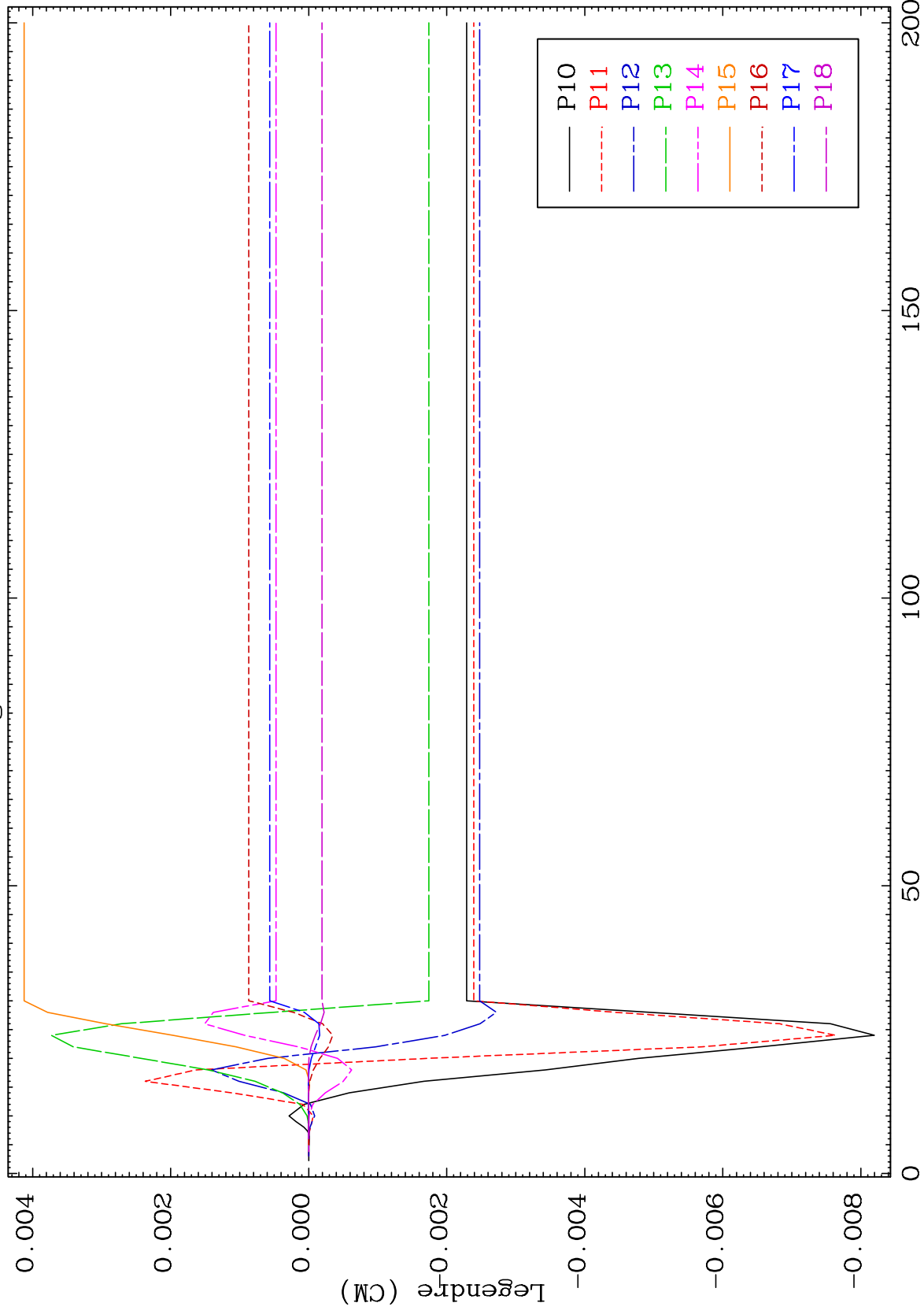
Incident Energy (MeV)

121

MAT 5616

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

56-Ba-127



122

Incident Energy (MeV)

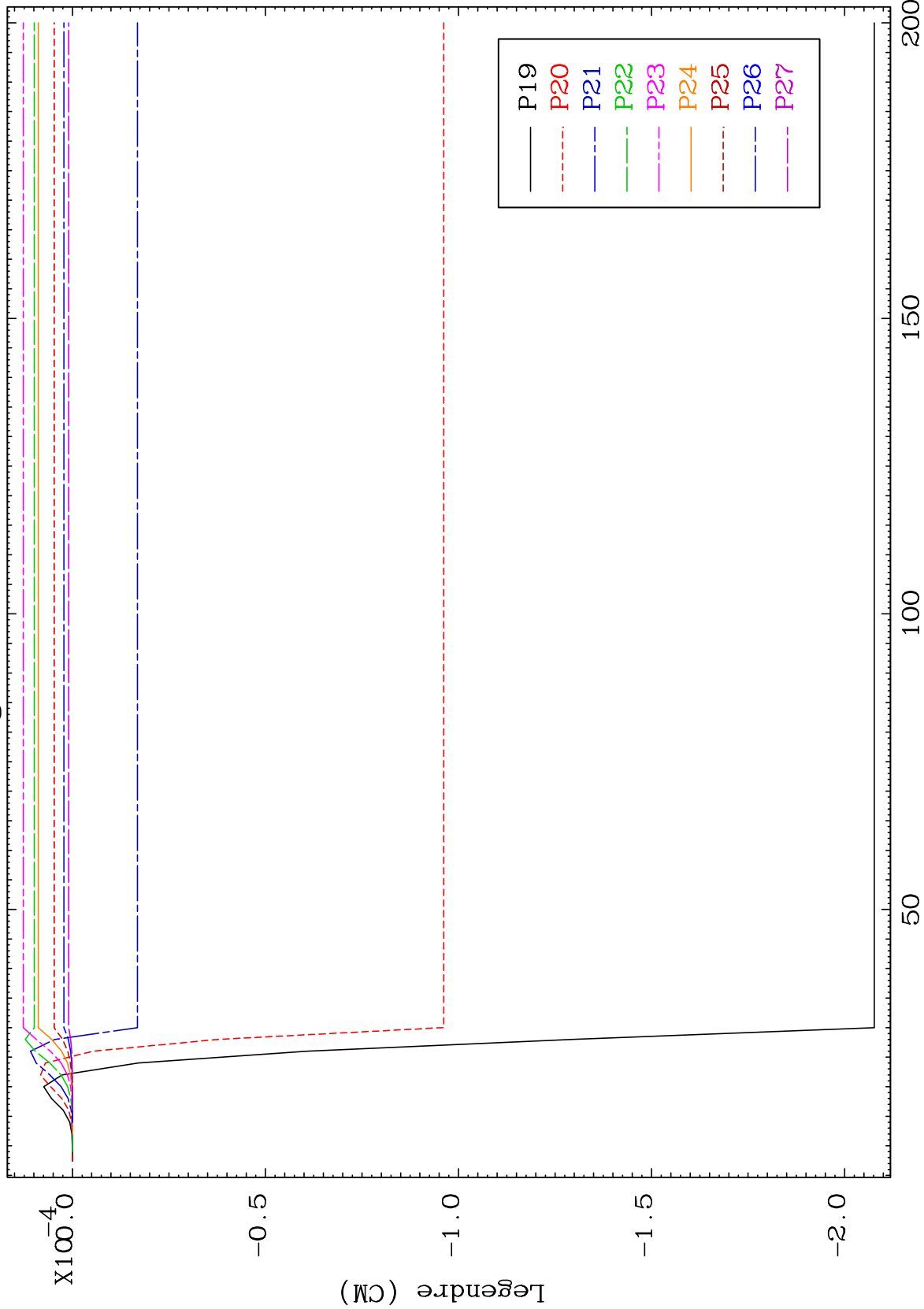
56-Ba-127

MAT 5616

MT= 77 (n,n') Level

56-Ba-127

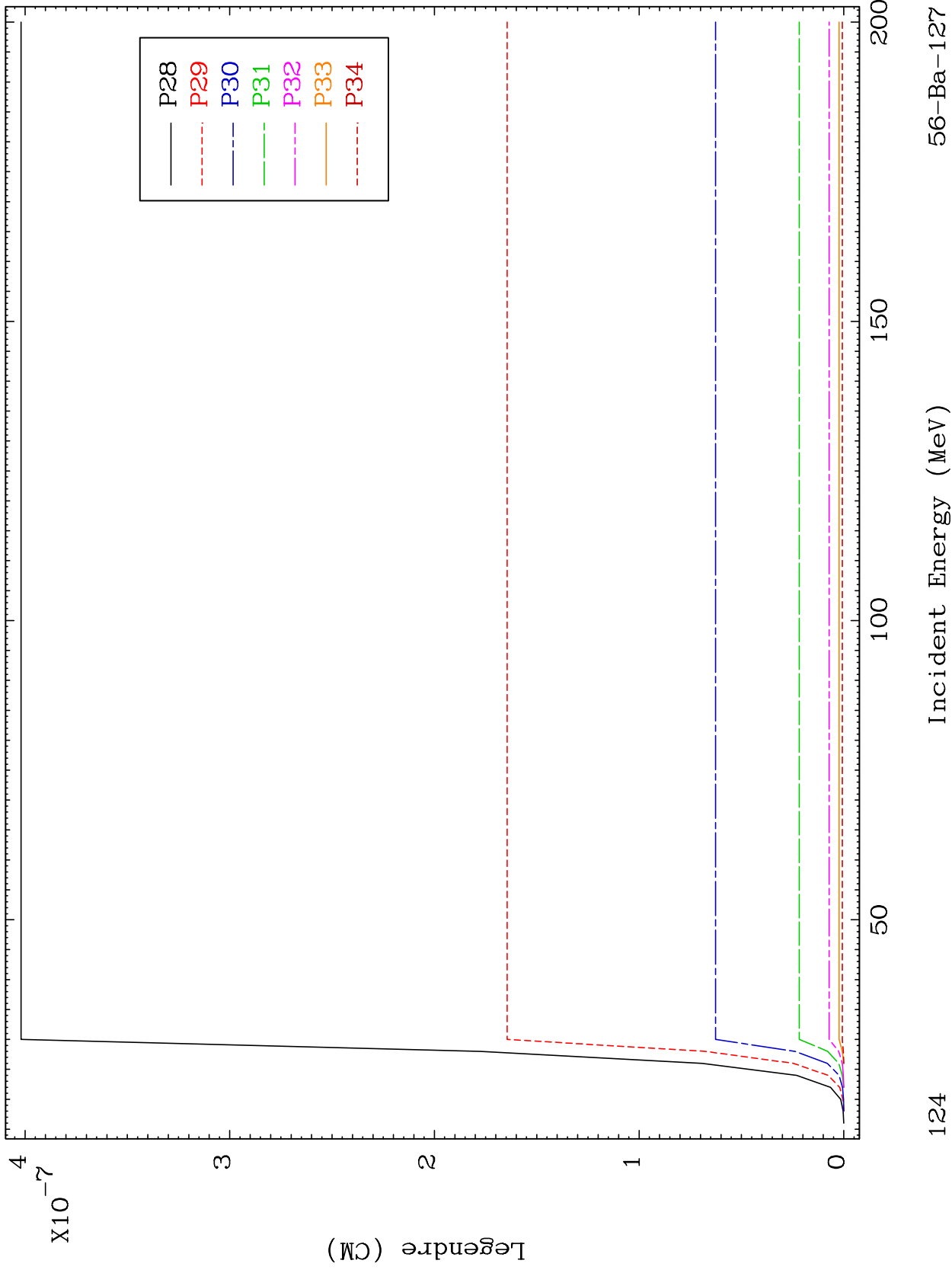
Legendre Coefficients



MAT 5616

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

56-Ba-127



124

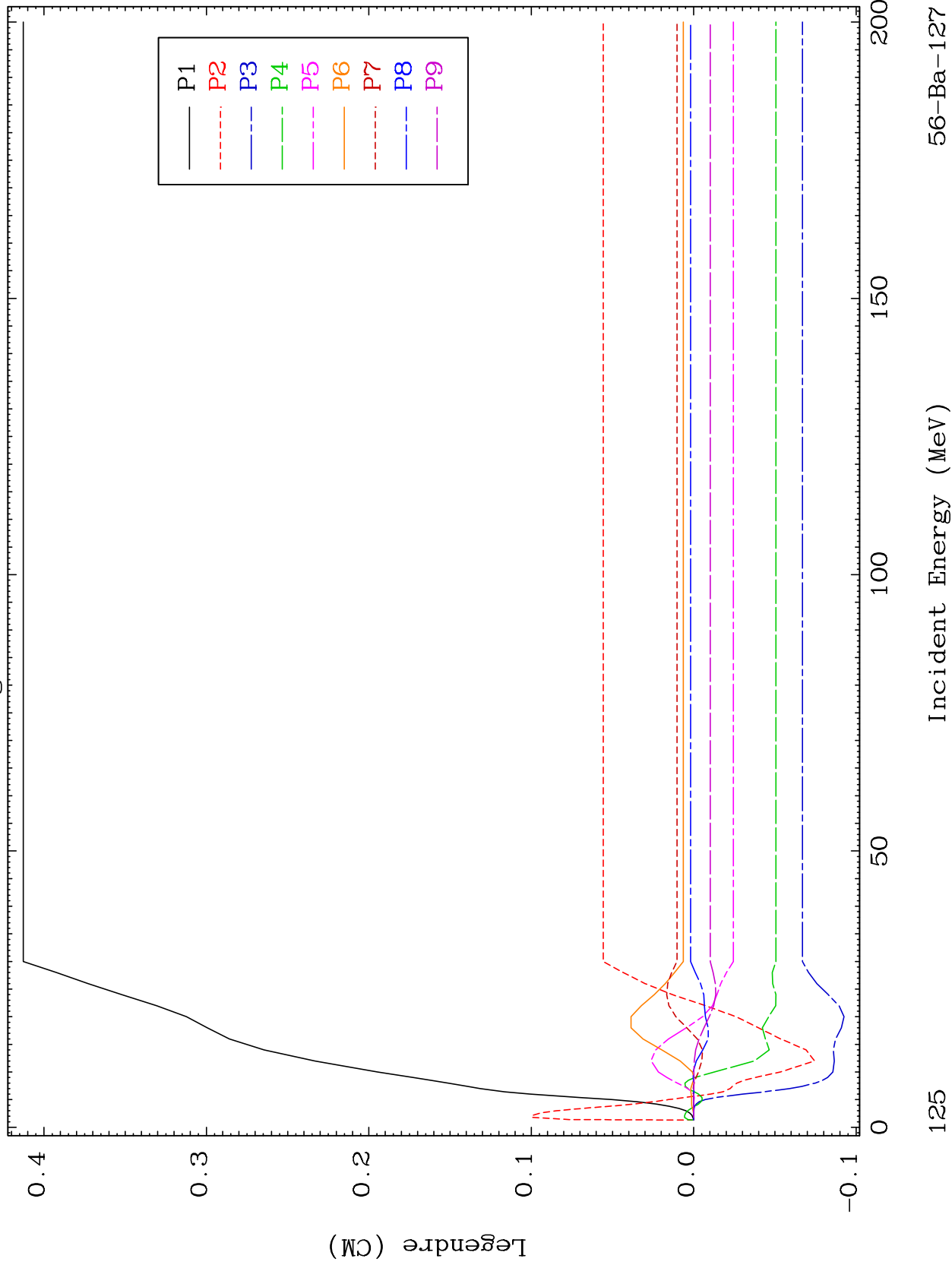
Incident Energy (MeV)

56-Ba-127

MAT 5616

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

56-Ba-127



56-Ba-127

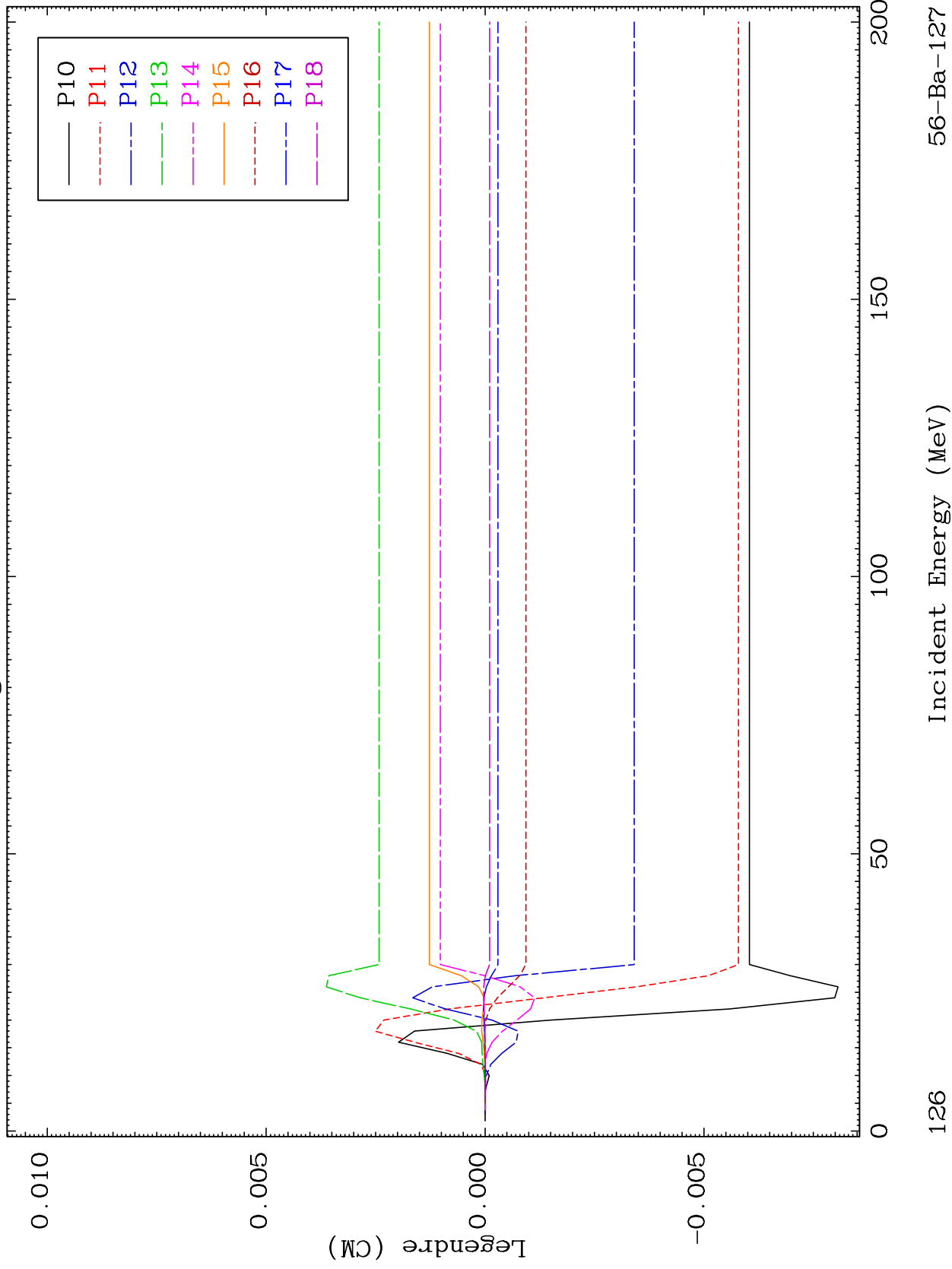
Incident Energy (MeV)

125

MAT 5616

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

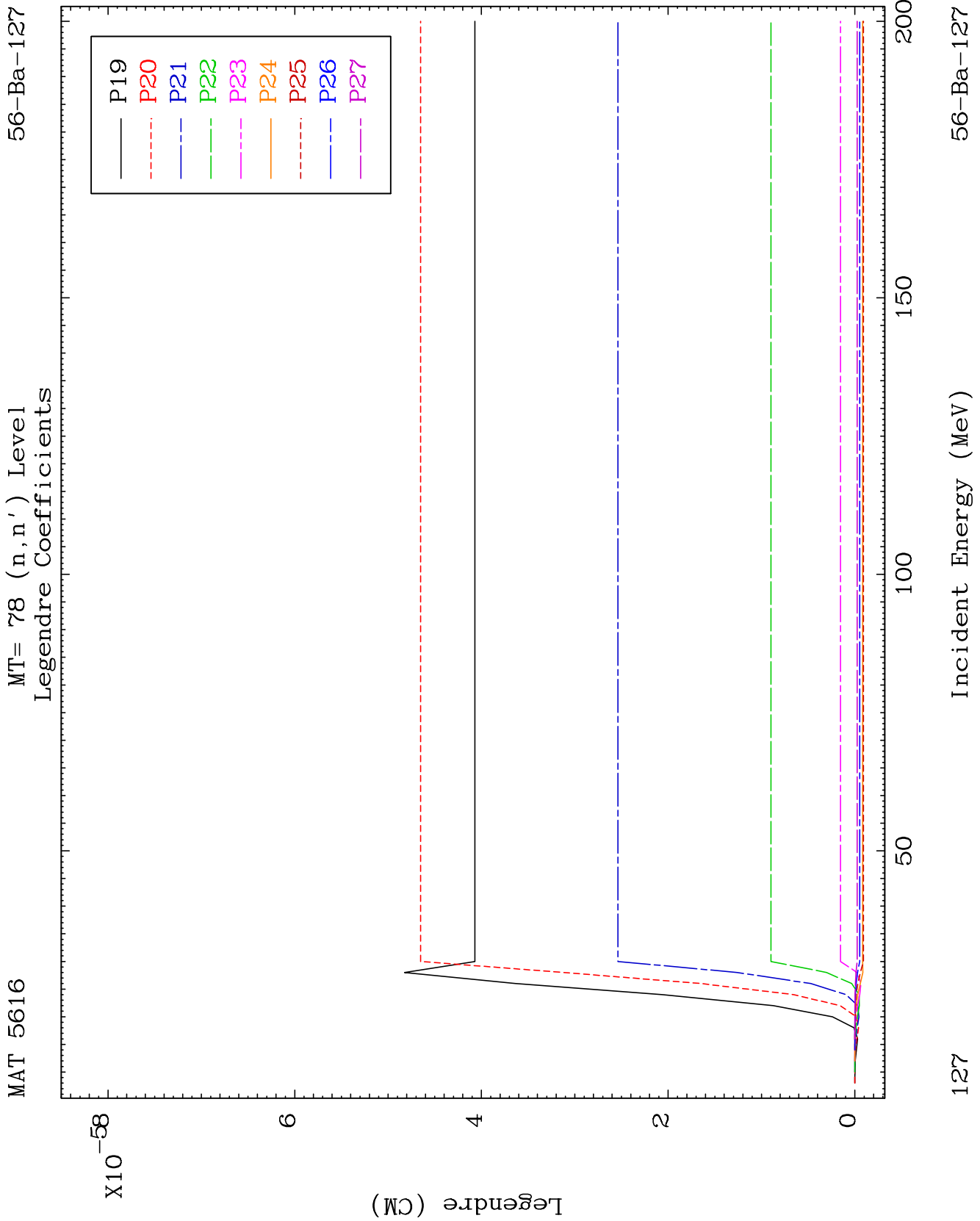
56-Ba-127



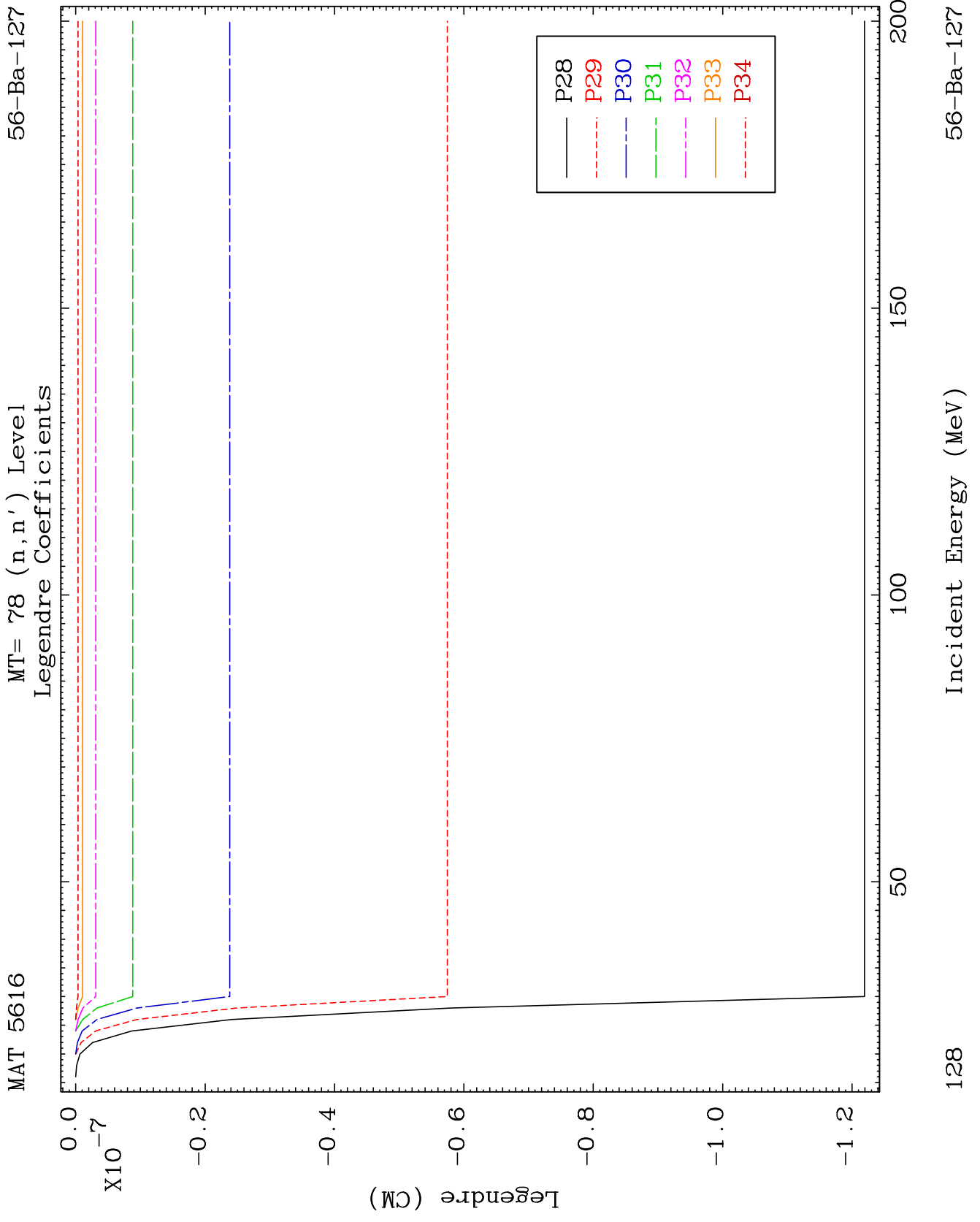
56-Ba-127

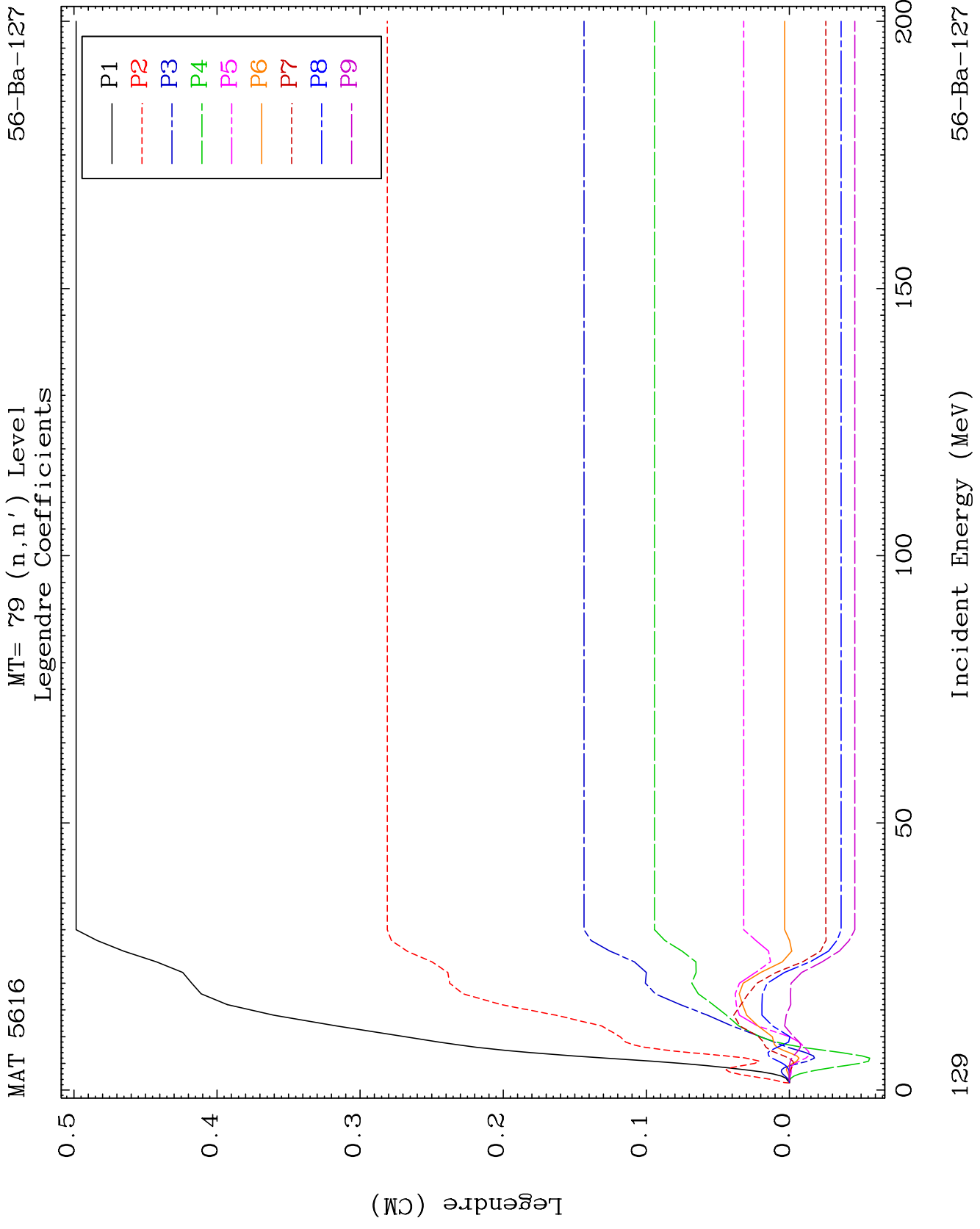
Incident Energy (MeV)

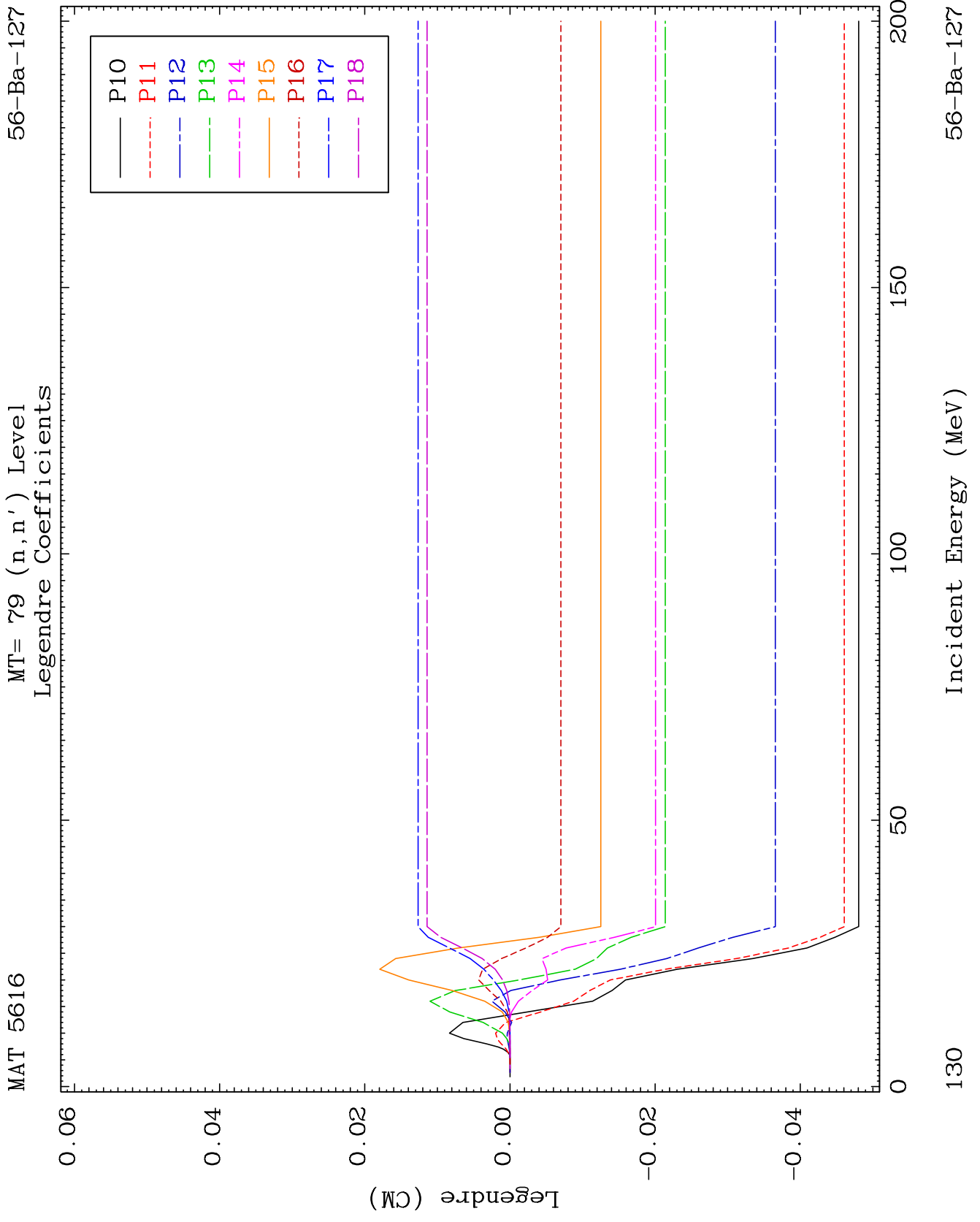
126

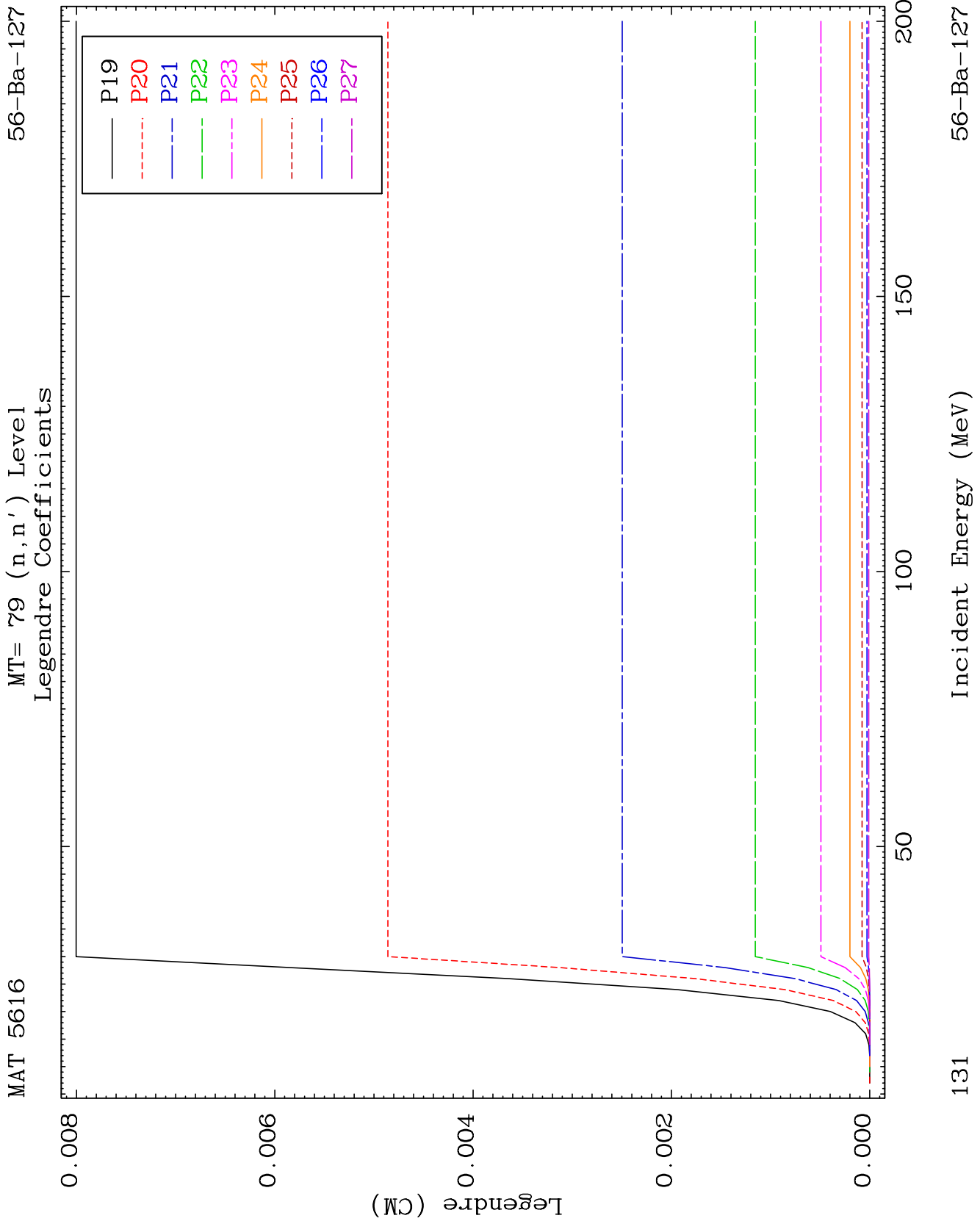








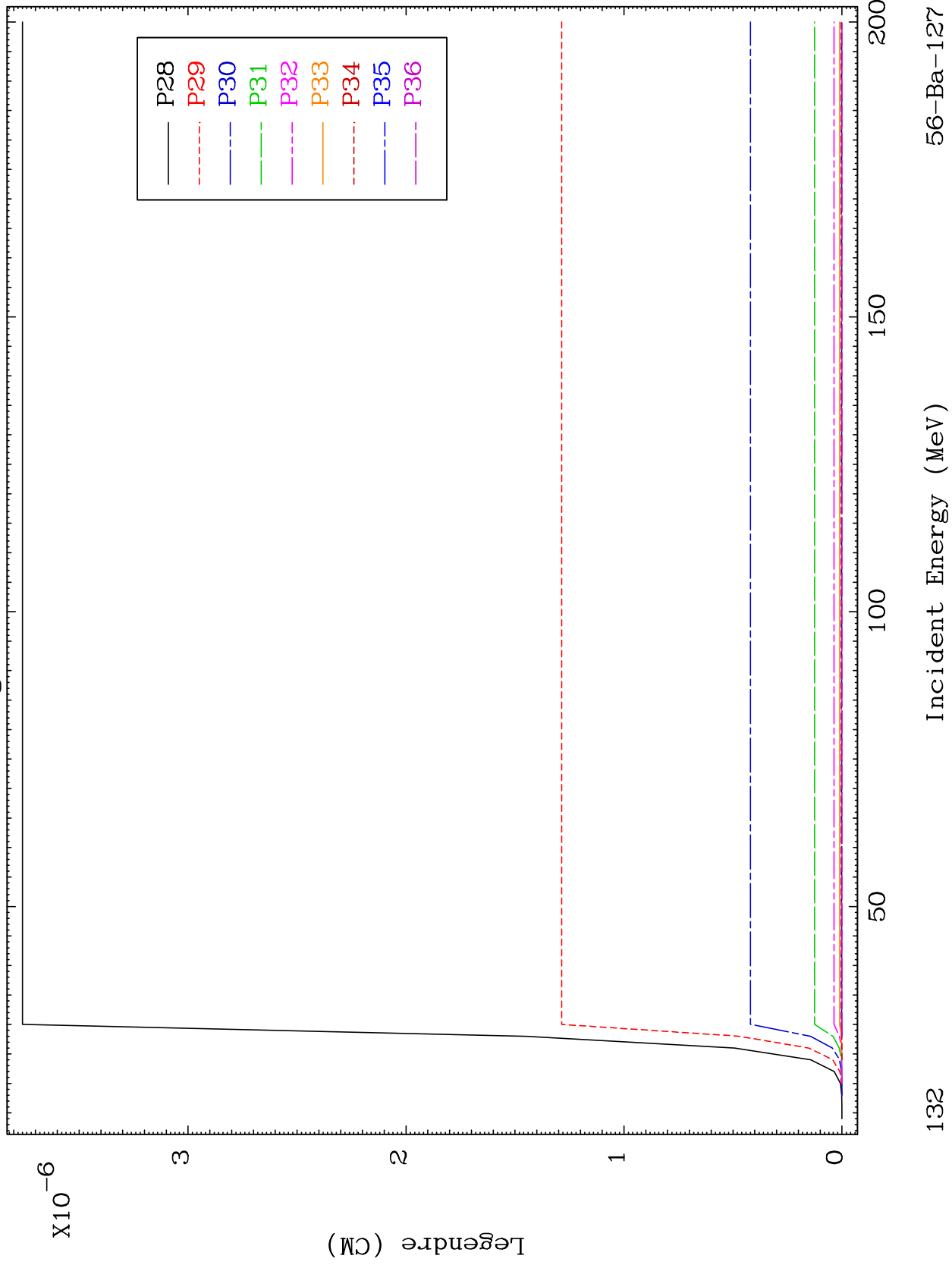




MAT 5616

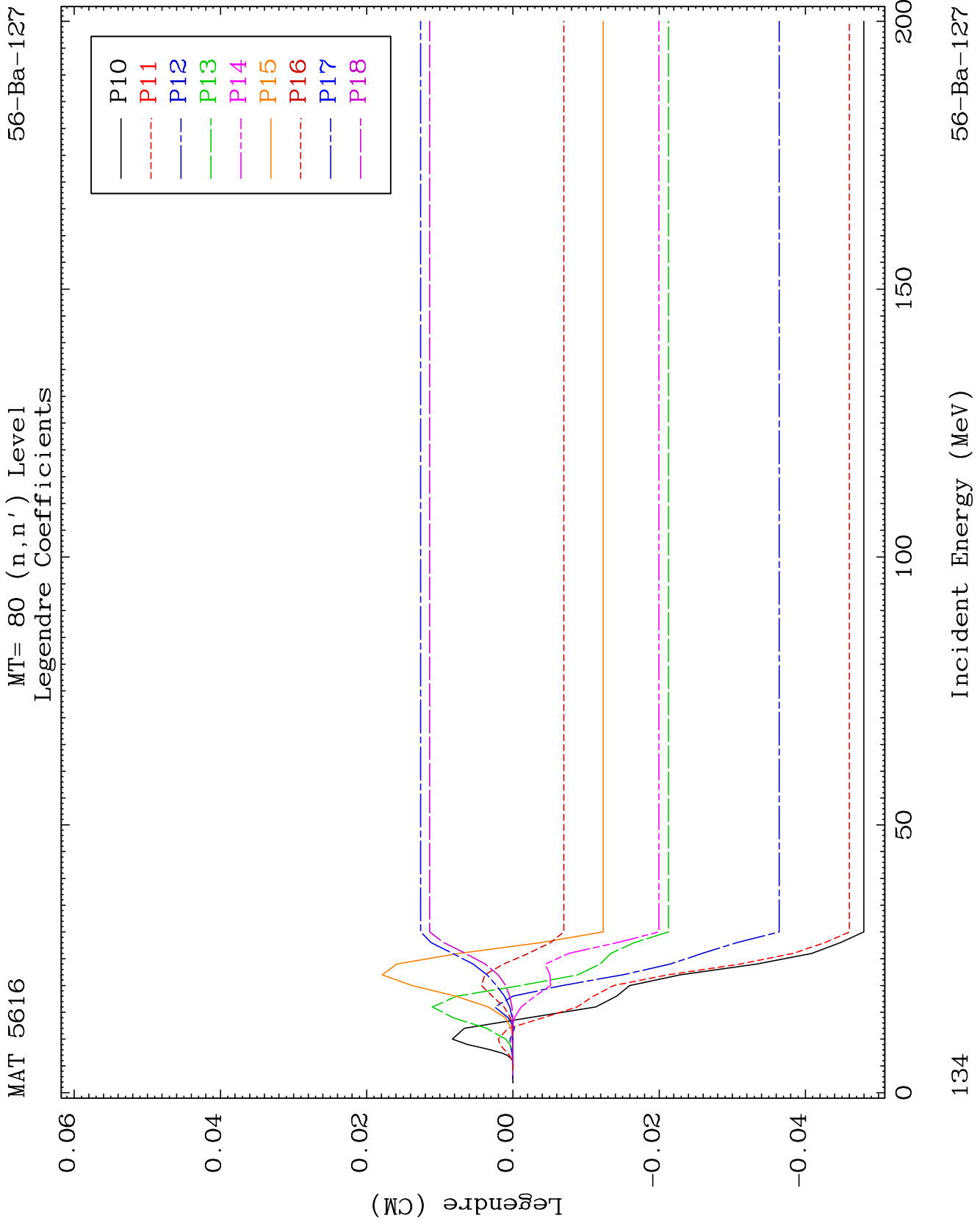
MT= 79 (n,n') Level  
Legendre Coefficients

56-Ba-127



132





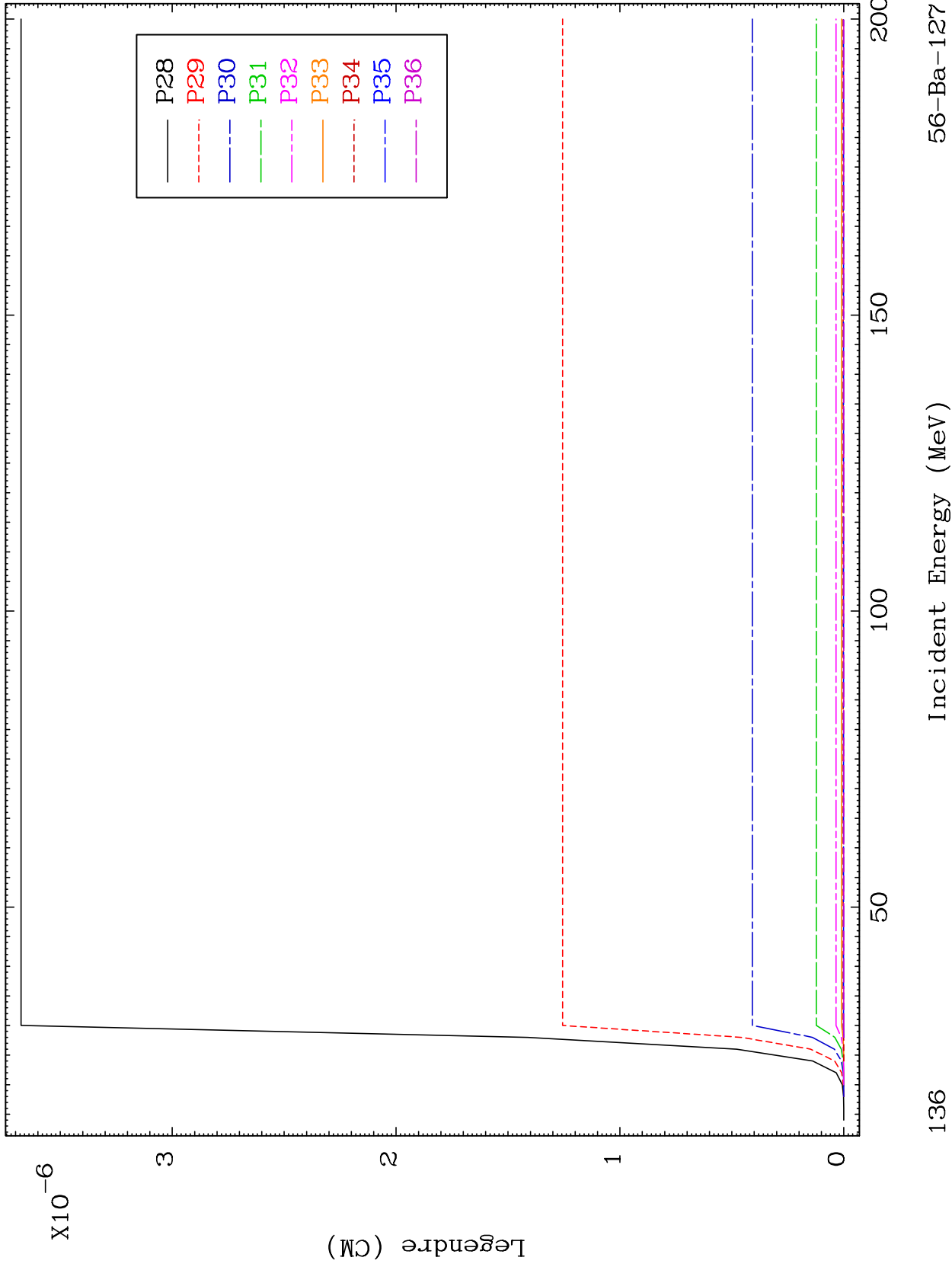




MAT 5616

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

56-Ba-127



136

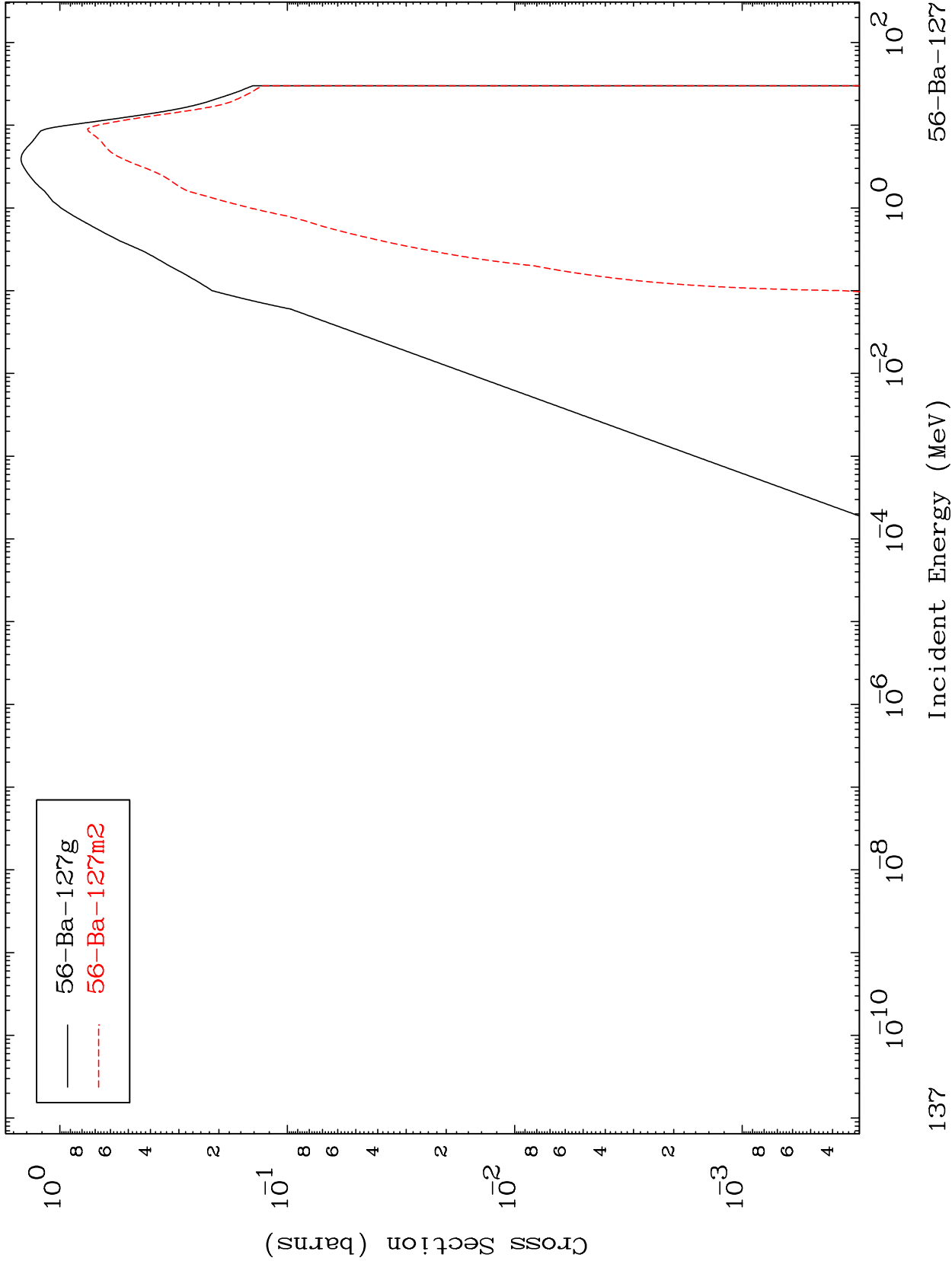
Incident Energy (MeV)

56-Ba-127

MAT 5616

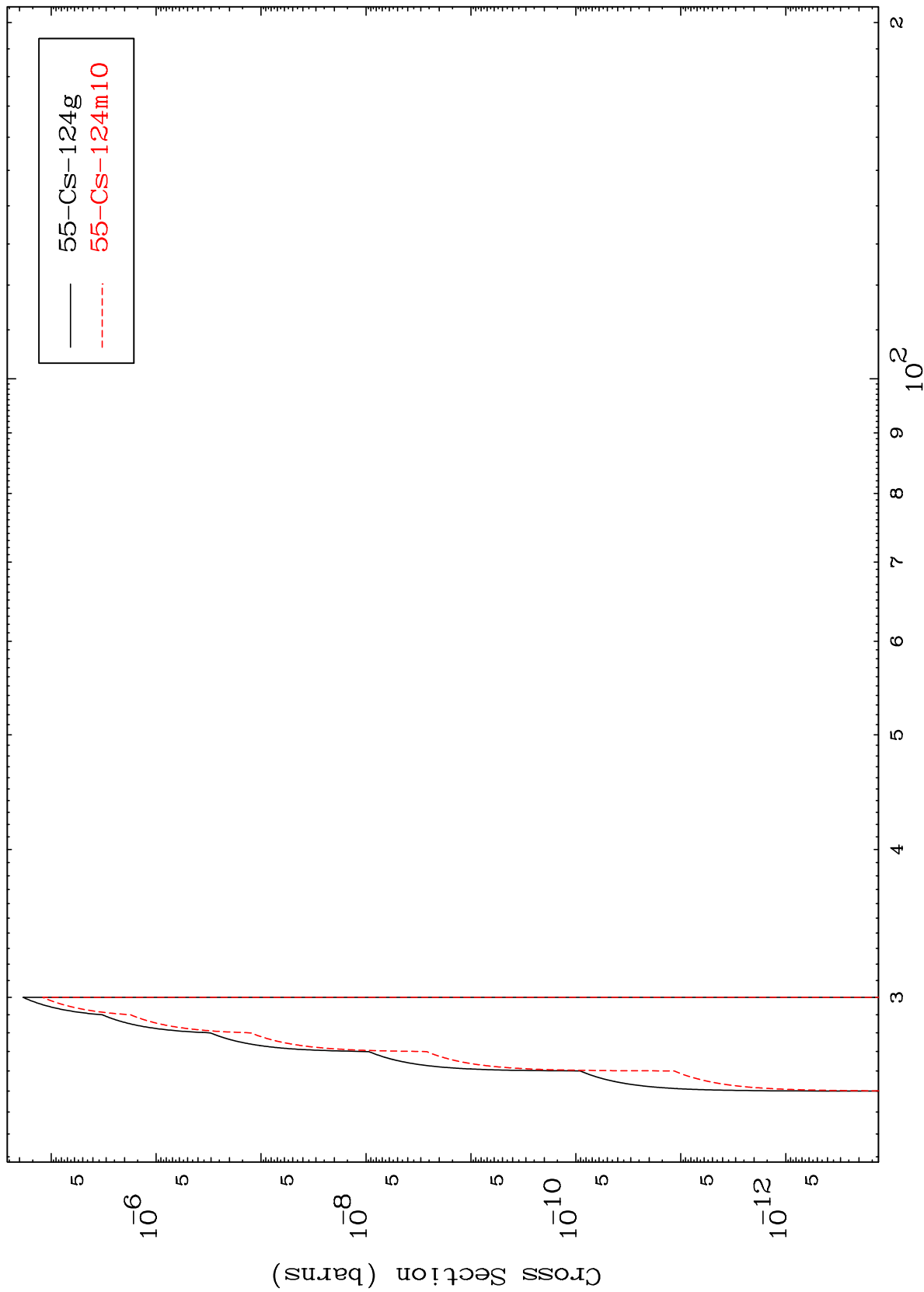
Inelastic  
Radionuclide Production Cross Section

56-Ba-127



56-Ba-127g  
56-Ba-127m2

Radionuclide Production Cross Section



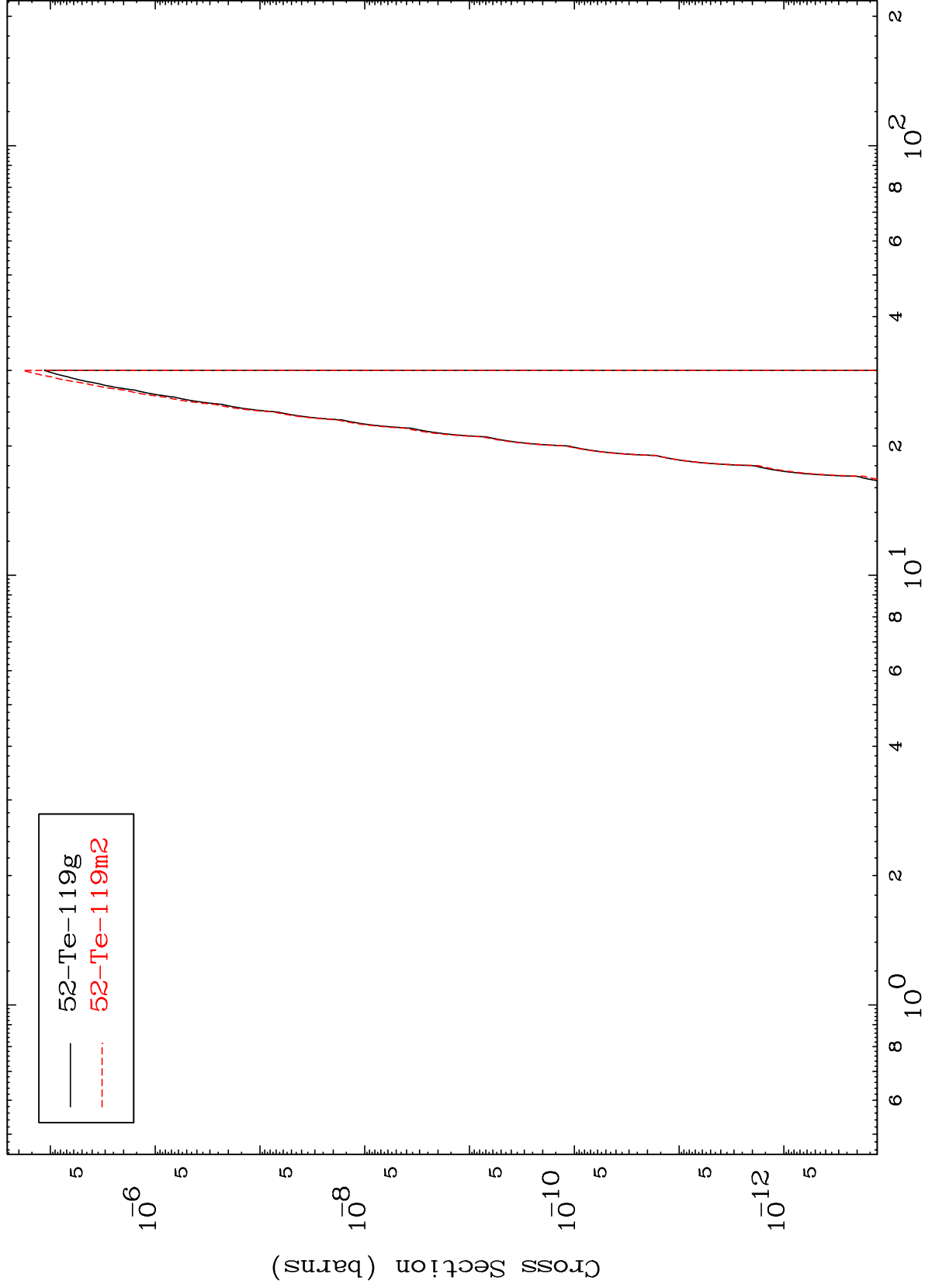
55-Cs-124g  
55-Cs-124m10

MAT 5616

(n,n') 2 $\alpha$

56-Ba-127

Radionuclide Production Cross Section



139

Incident Energy (MeV)

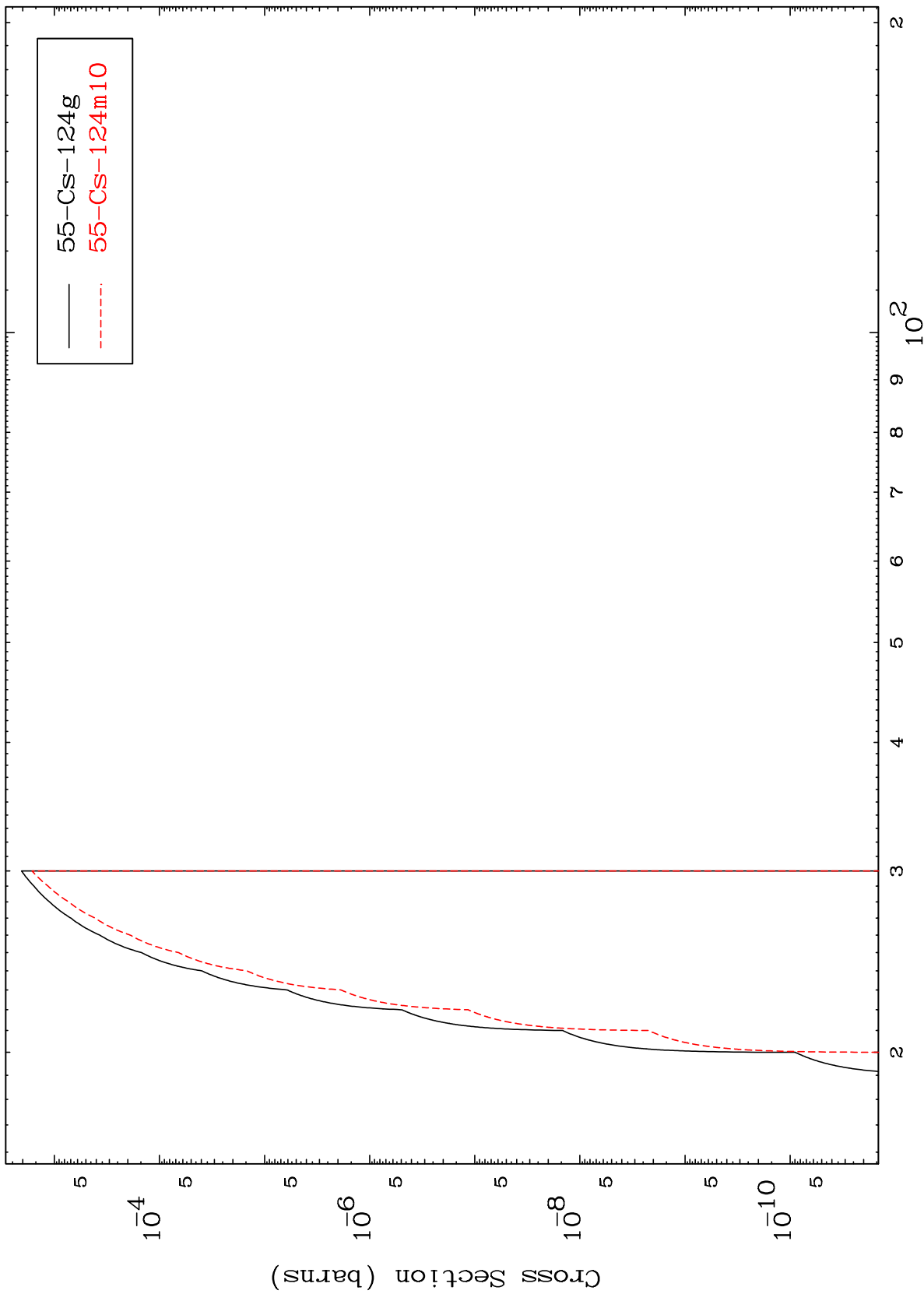
56-Ba-127

MAT 5616

(n,n') t

56-Ba-127

Radionuclide Production Cross Section



140

Incident Energy (MeV)

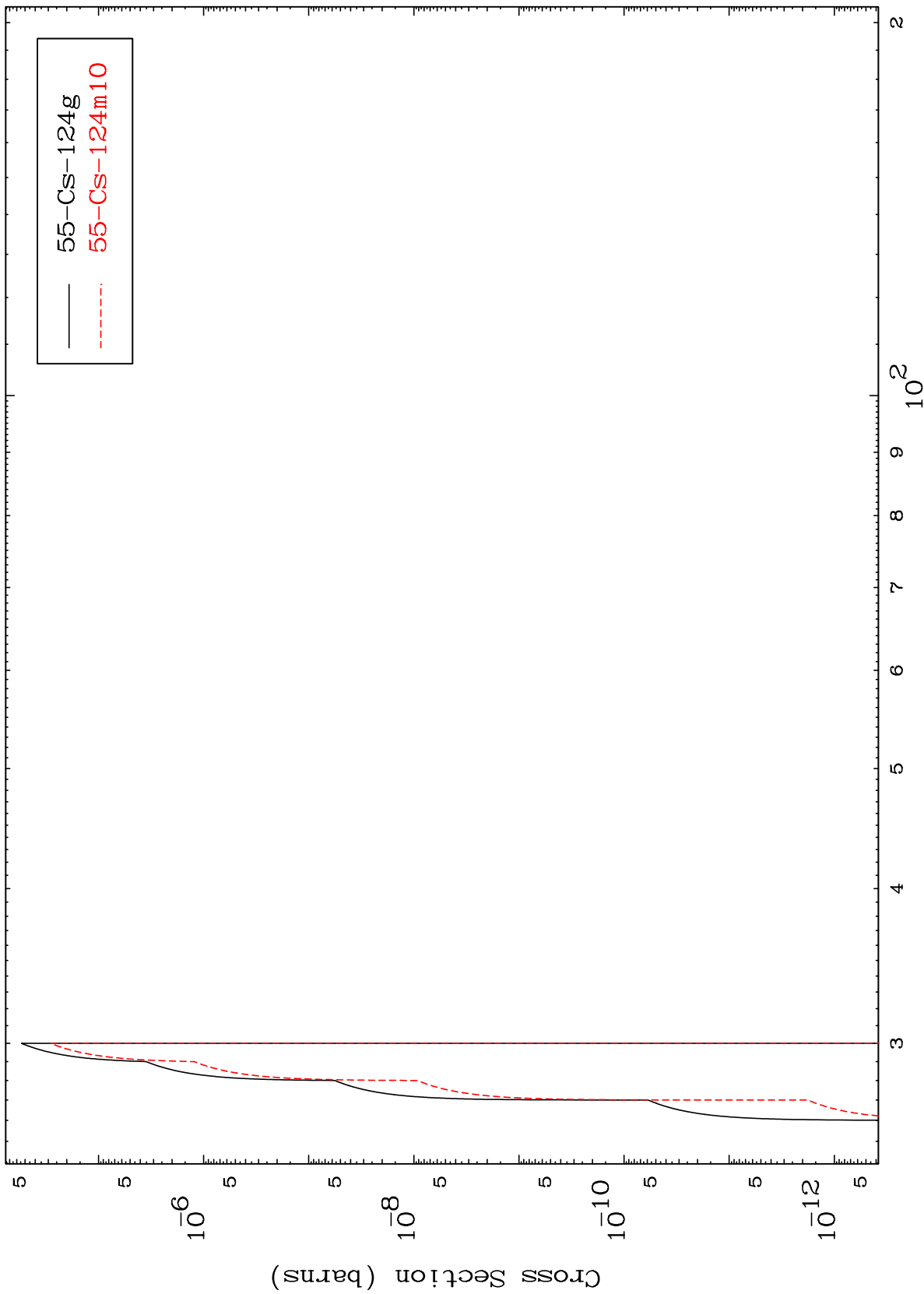
56-Ba-127

MAT 5616

(n,3n) p

56-Ba-127

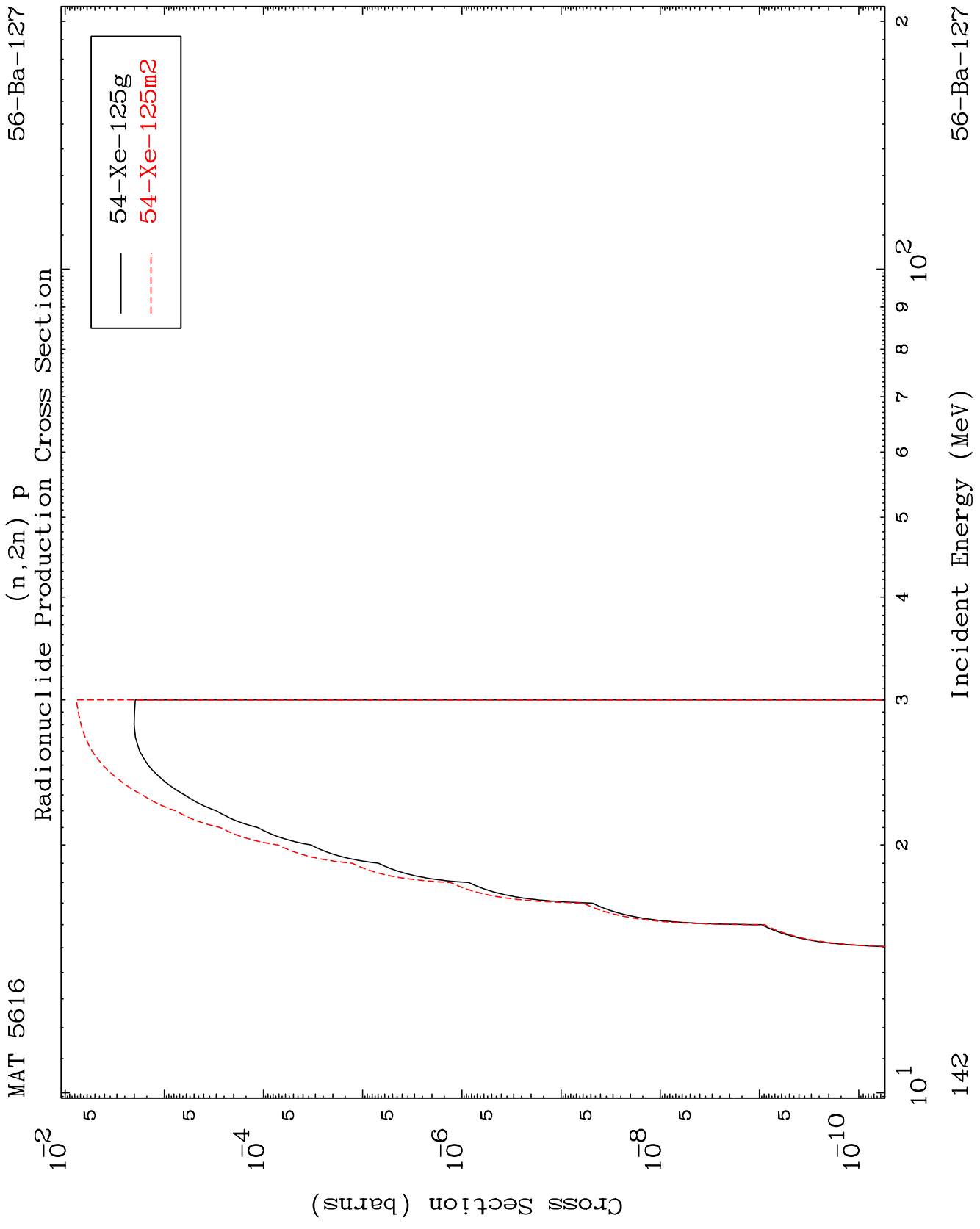
Radionuclide Production Cross Section



141

Incident Energy (MeV)

56-Ba-127

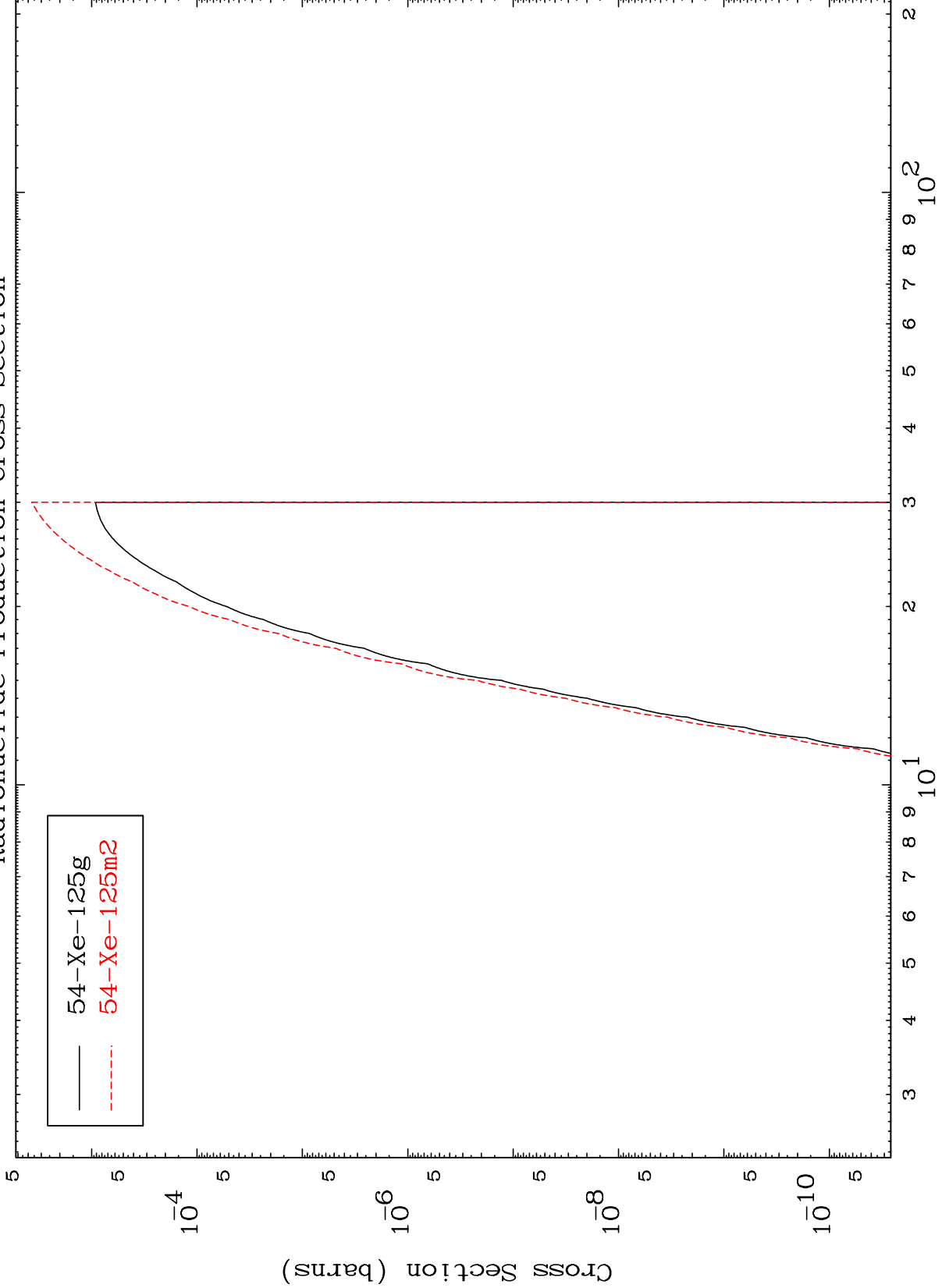


MAT 5616

(n,He-3)

56-Ba-127

Radionuclide Production Cross Section



143

Incident Energy (MeV)

56-Ba-127

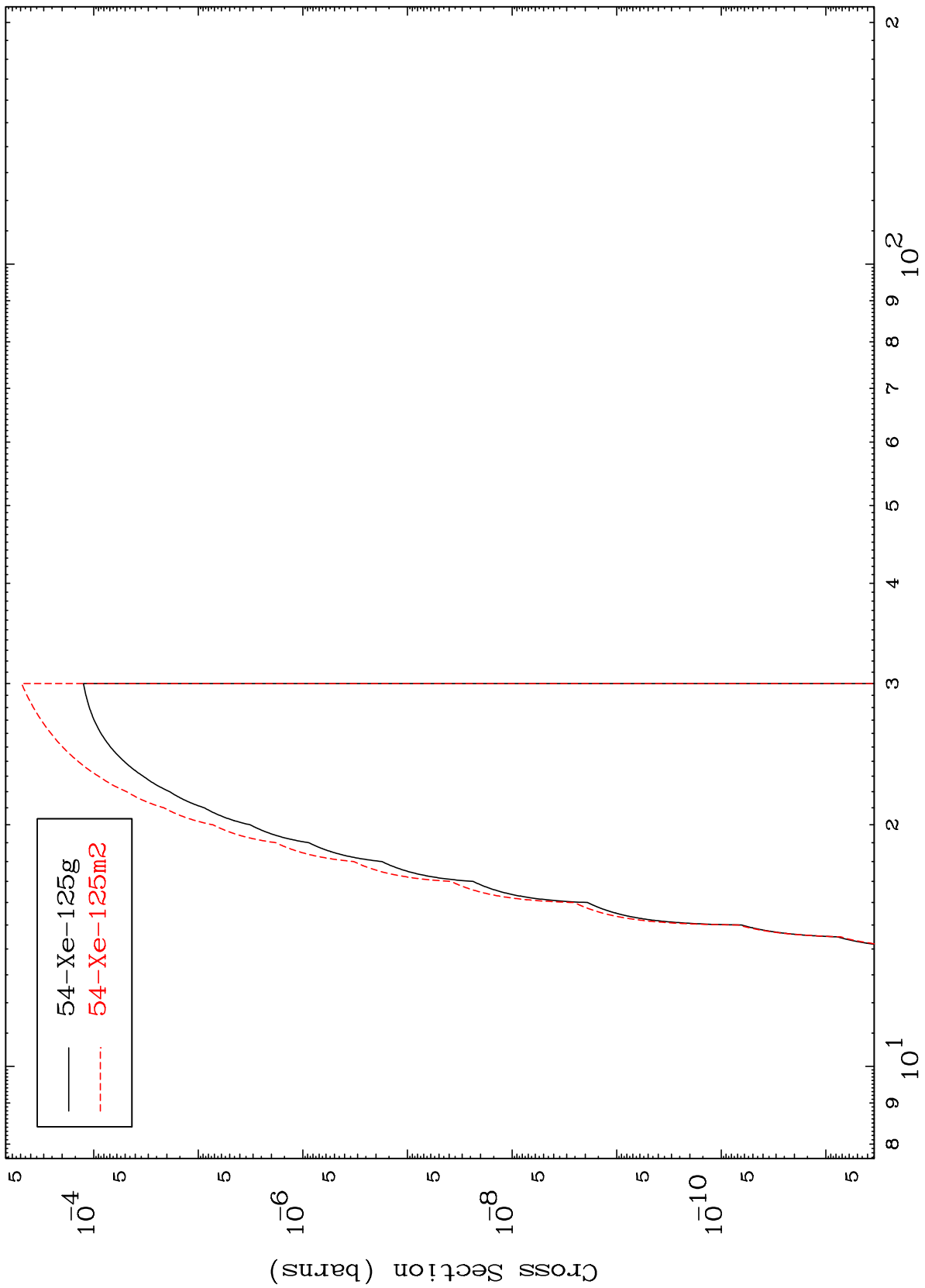


MAT 5616

(n,p) d

56-Ba-127

Radionuclide Production Cross Section



144

Incident Energy (MeV)

56-Ba-127