

Program EVALPLOT
(Version 2017-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.

Tele: 925-443-1911

E.Mail: redcullen1@comcast.net

Web: redcullen1.net/HOMEPAGE.NEW

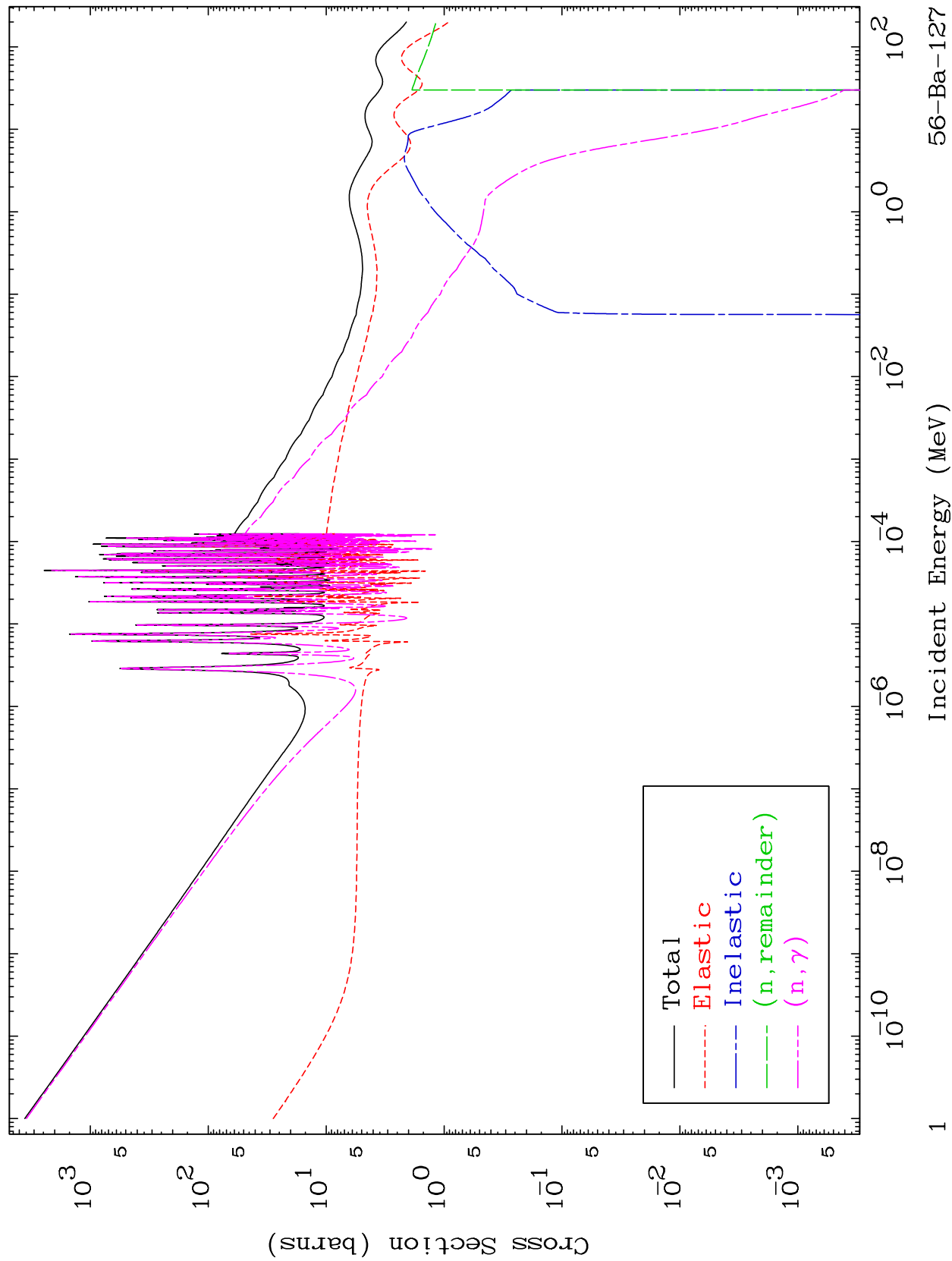
Press Mouse Button to Start

MAT 5616

Major

293 Kelvin Cross Sections

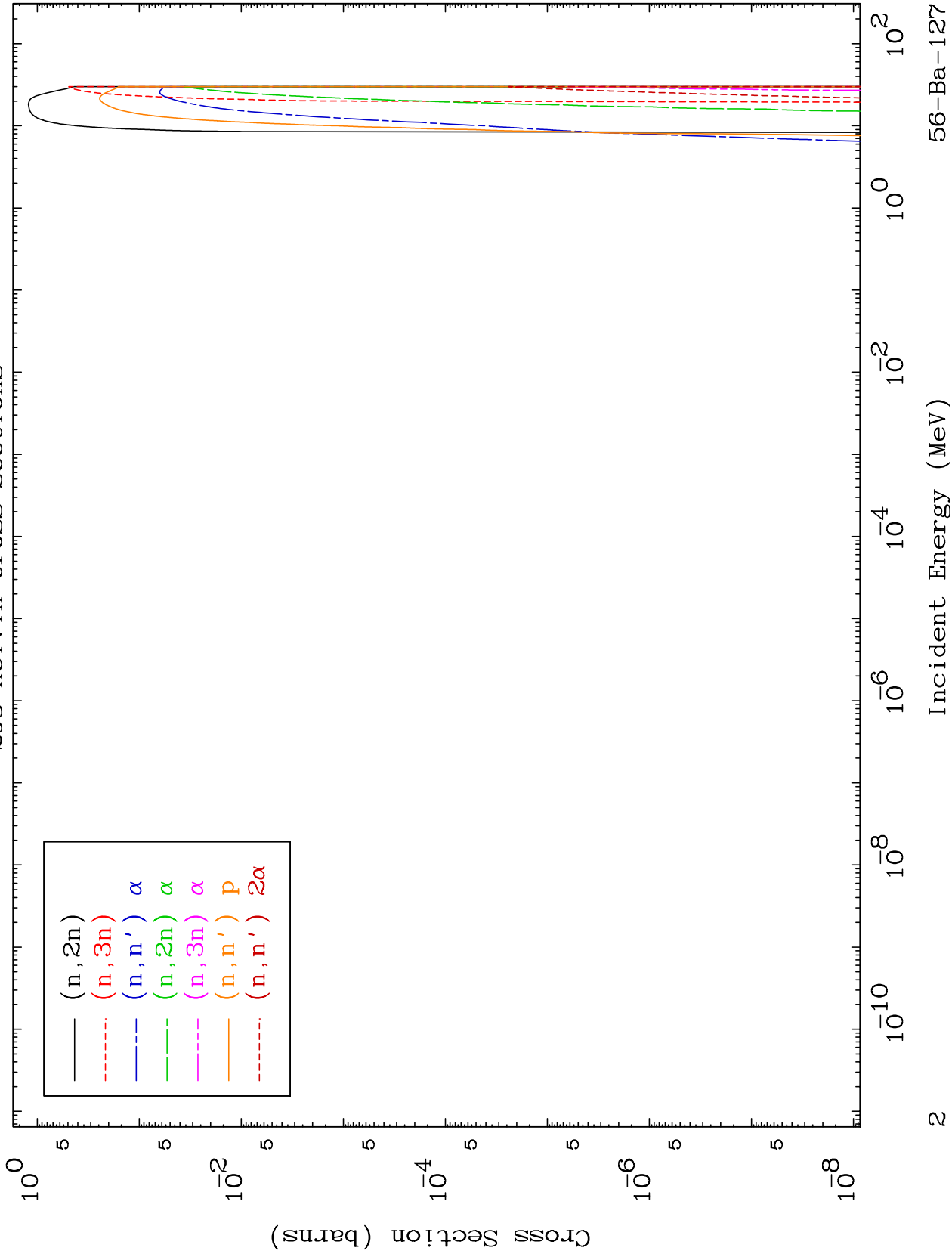
56-Ba-127

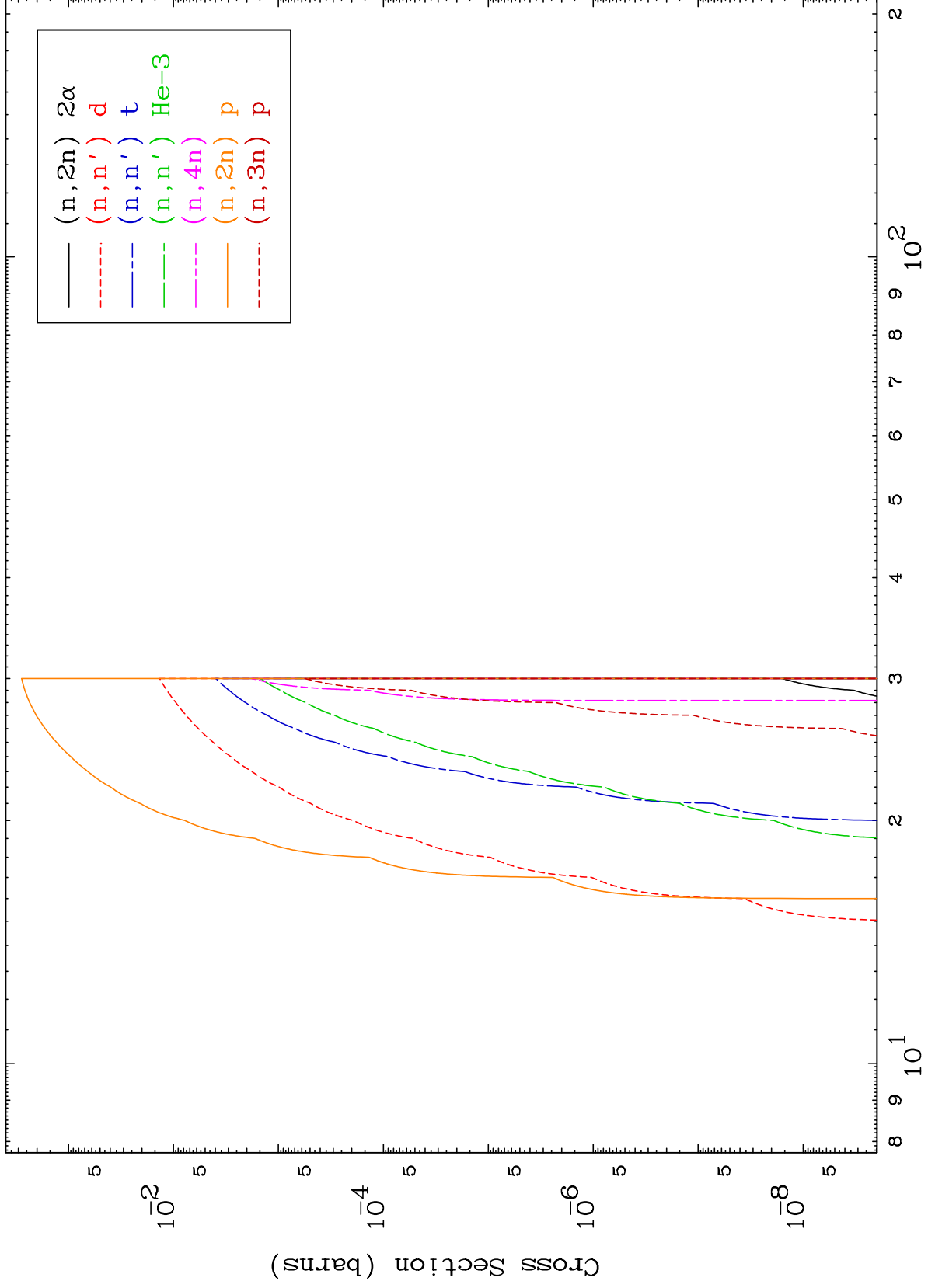


MAT 5616

Neutron Production
293 Kelvin Cross Sections

56-Ba-127

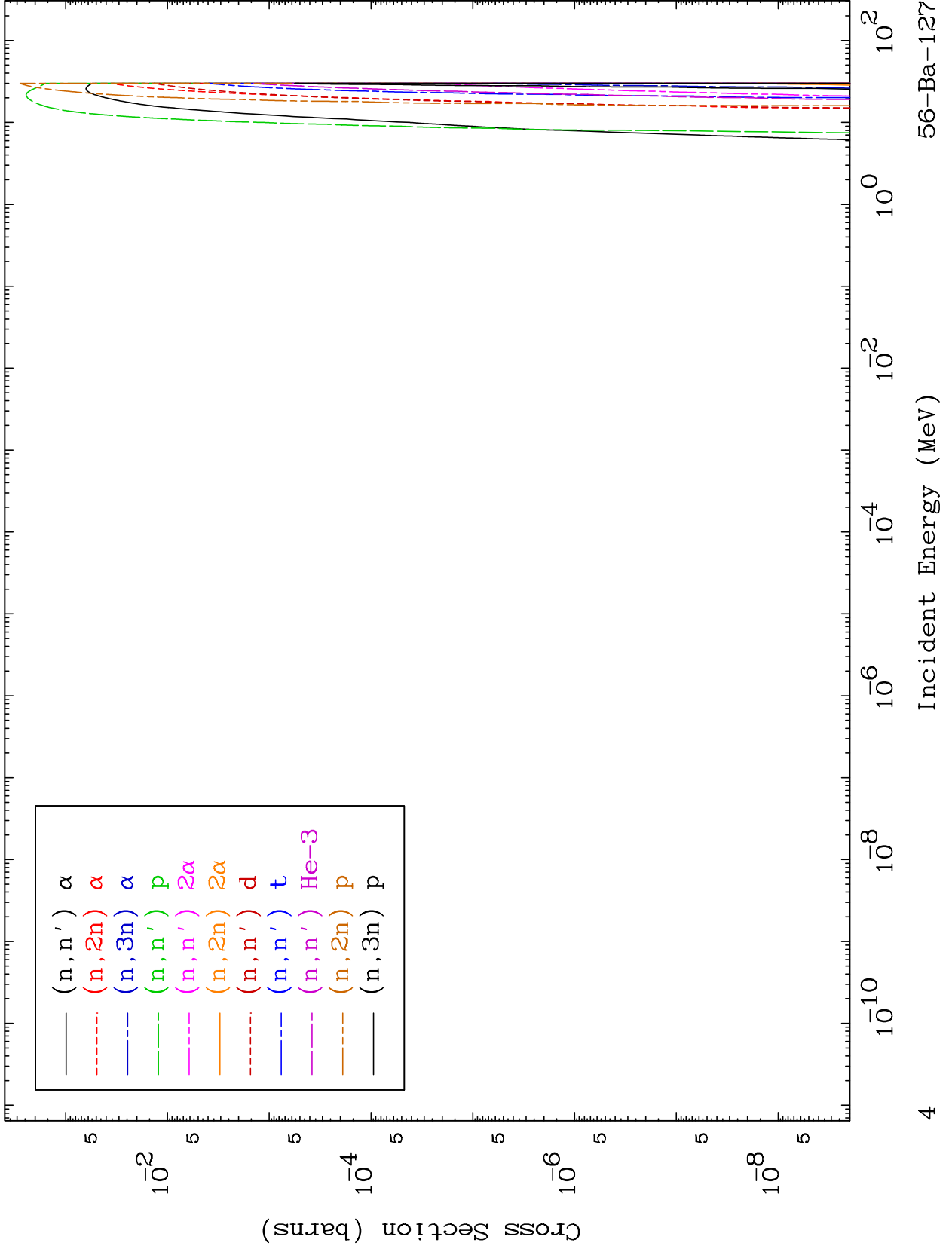


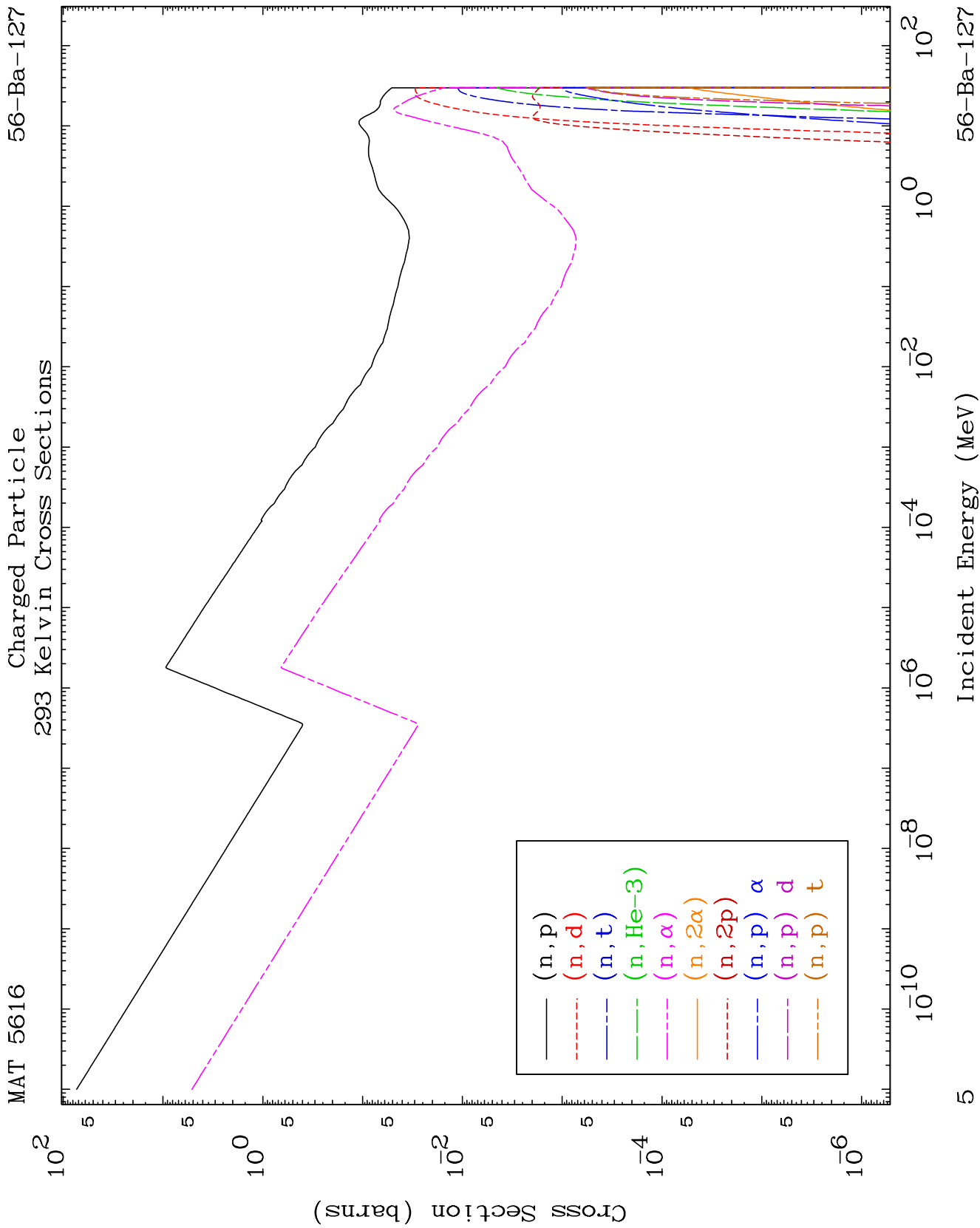


MAT 5616

Charged Particle
293 Kelvin Cross Sections

56-Ba-127



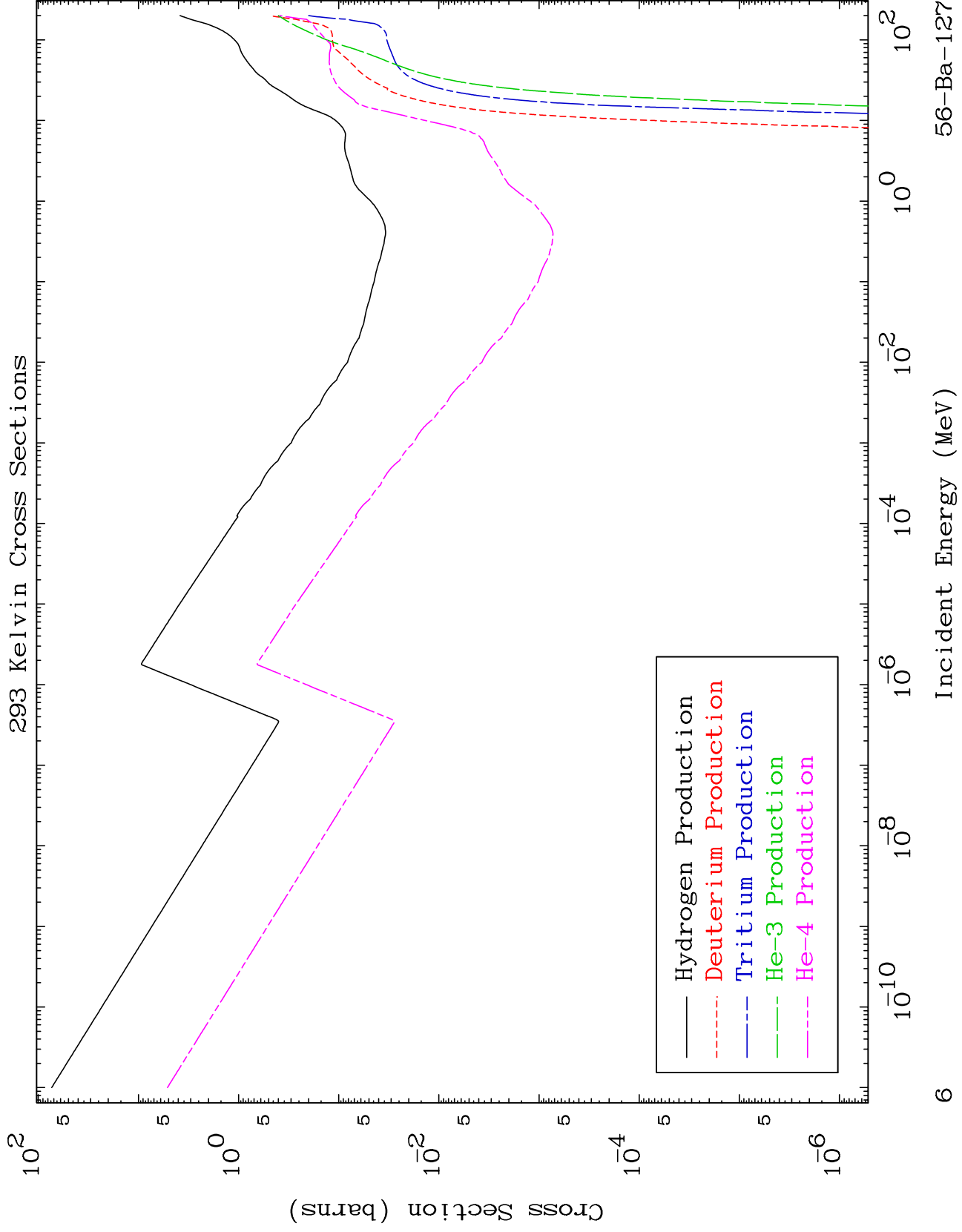


MAT 5616

MAT 5616

Particle Production
293 Kelvin Cross Sections

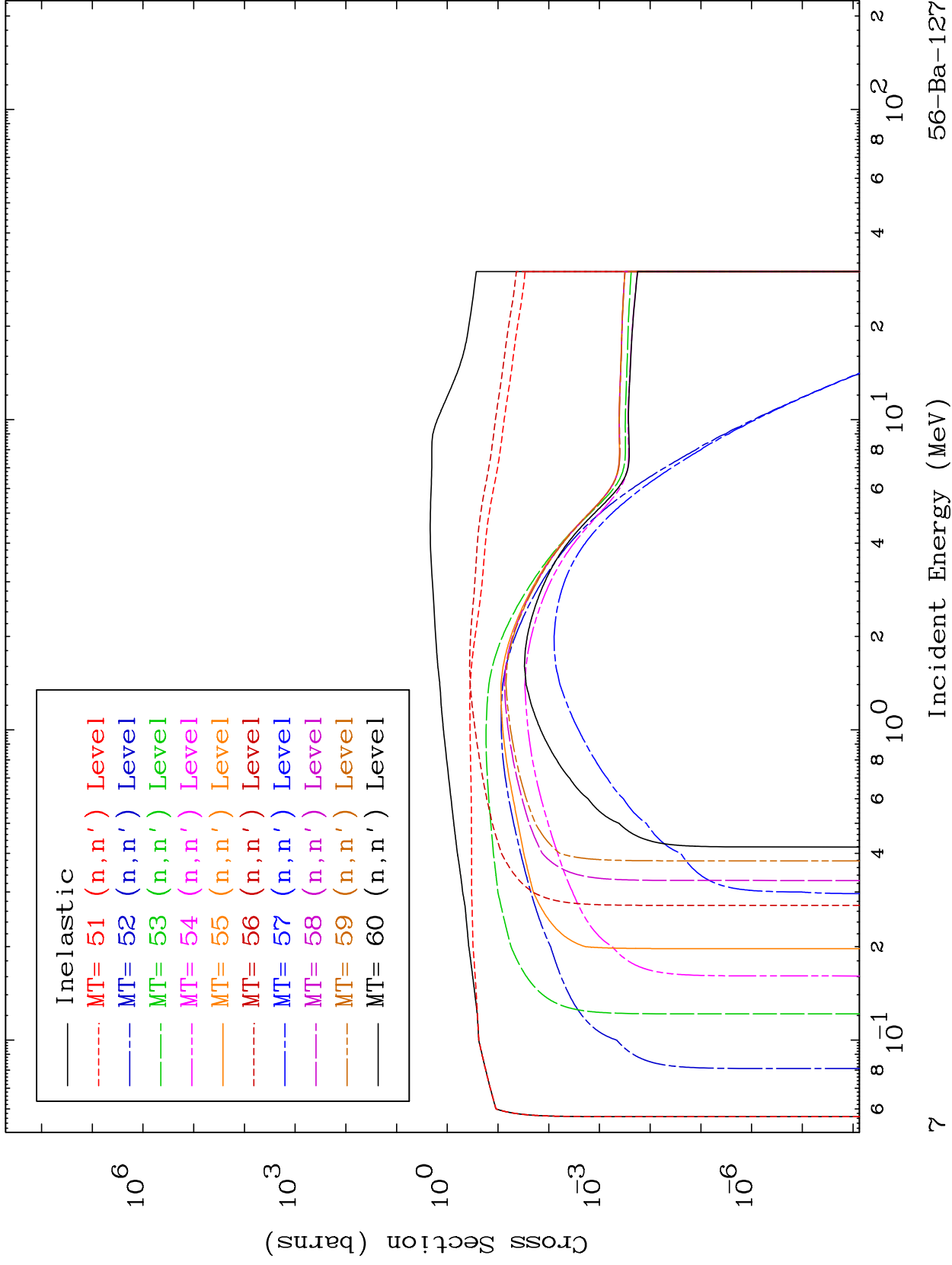
56-Ba-127



MAT 5616

(n,n') Level
293 Kelvin Cross Sections

56-Ba-127

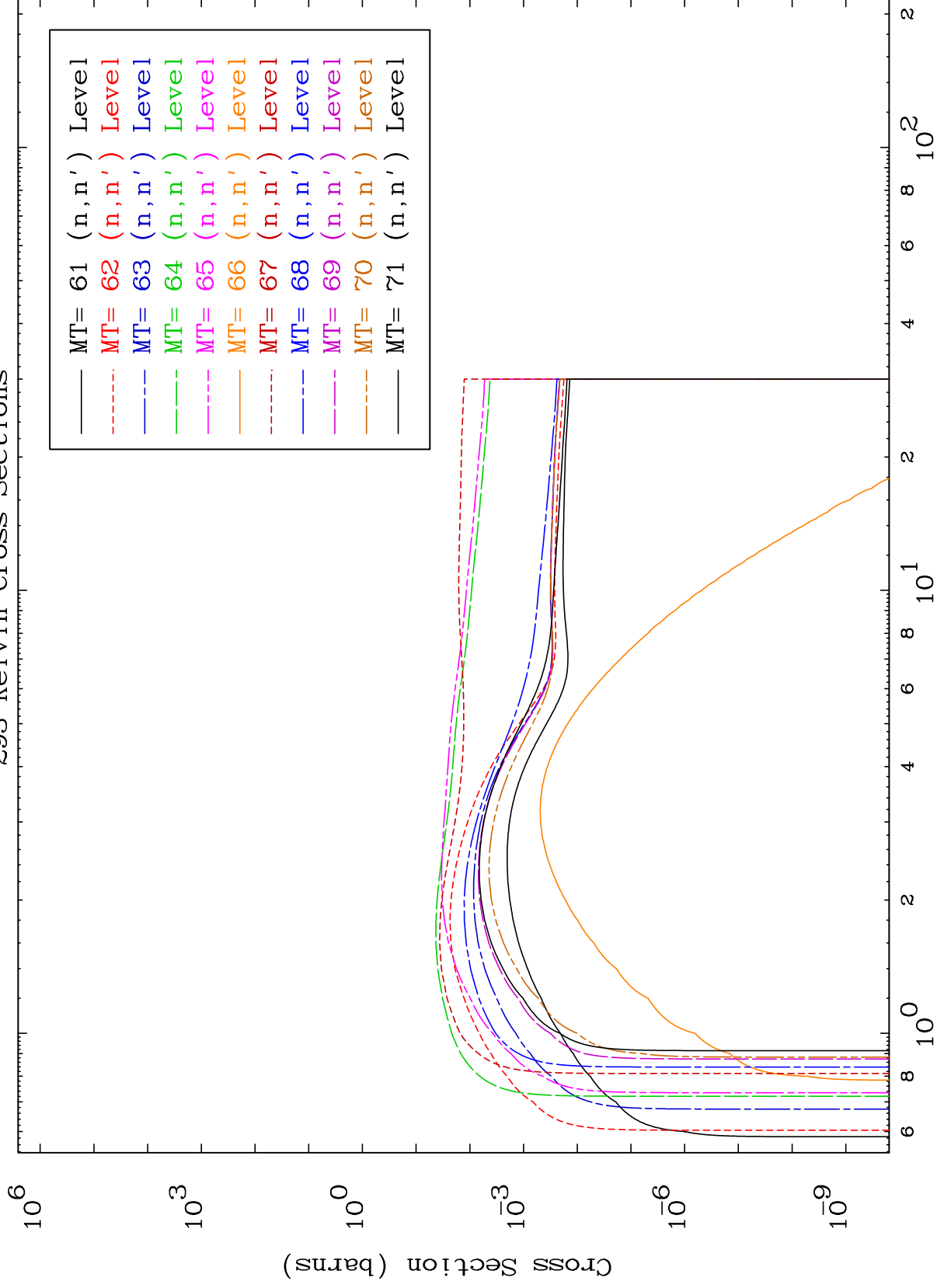


MAT 5616

(n,n') Level

56-Ba-127

293 Kelvin Cross Sections



8

Incident Energy (MeV)

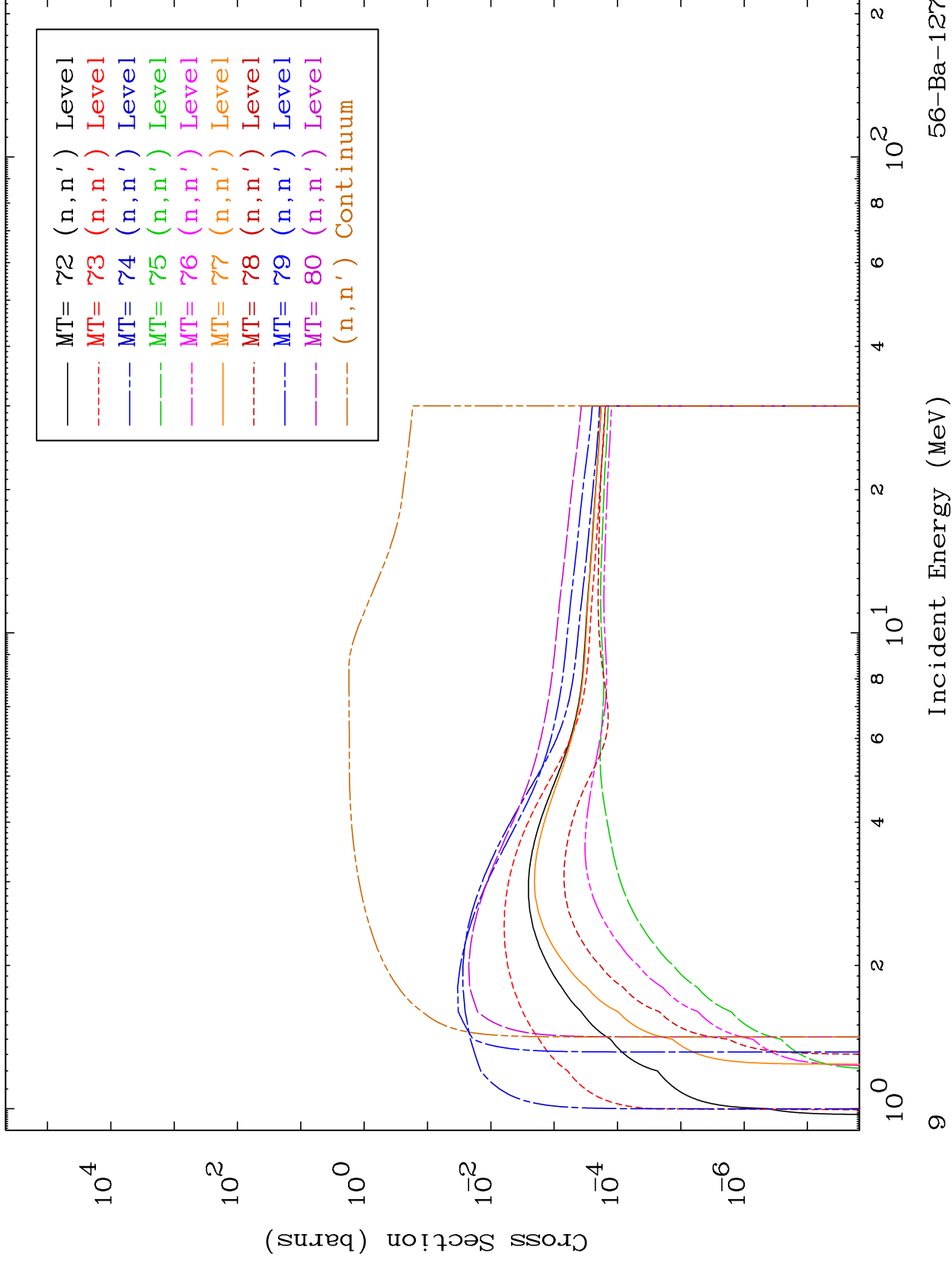
56-Ba-127

MAT 5616

(n,n') Level

56-Ba-127

293 Kelvin Cross Sections



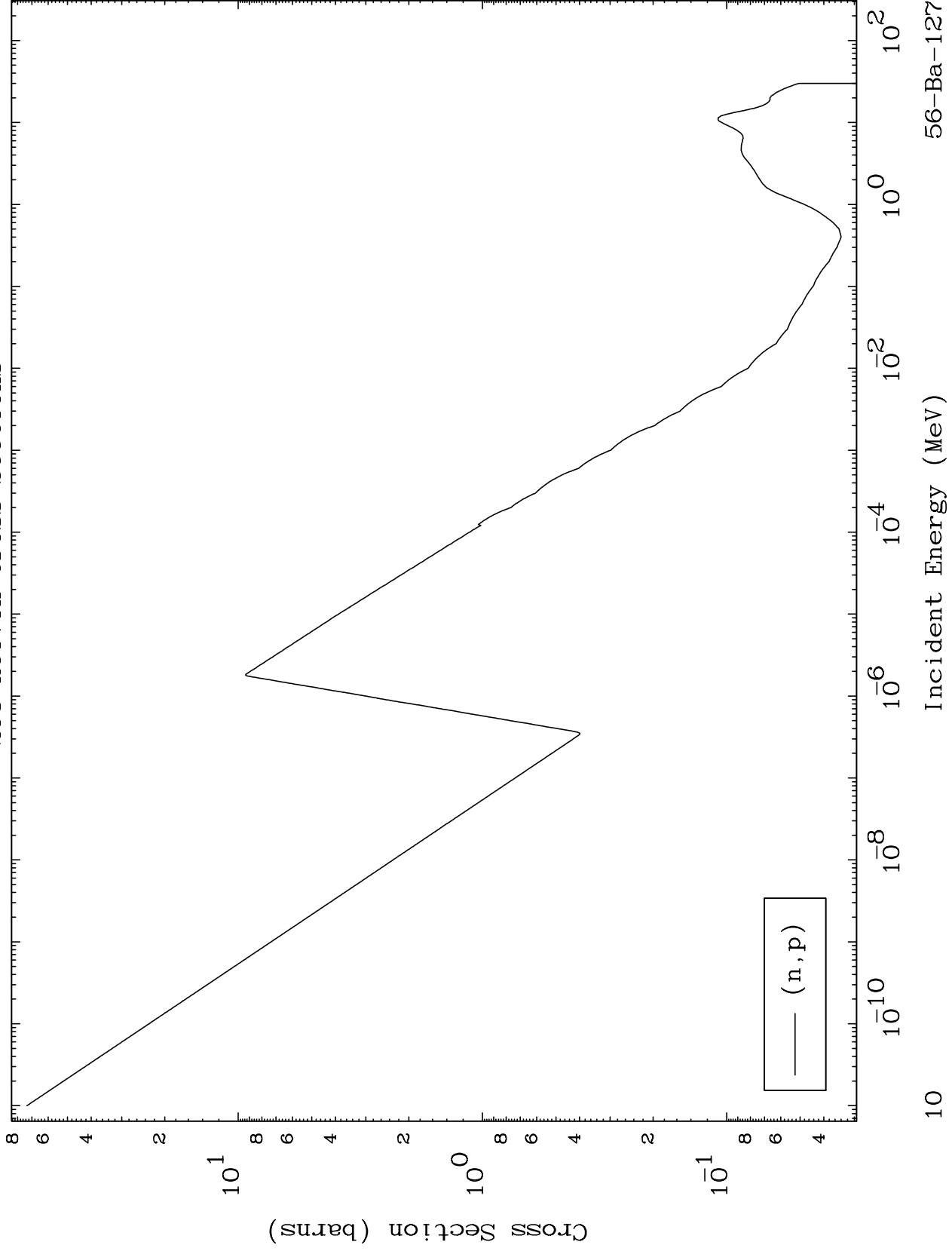
Incident Energy (MeV)

56-Ba-127

MAT 5616

(n,p) Levels
293 Kelvin Cross Sections

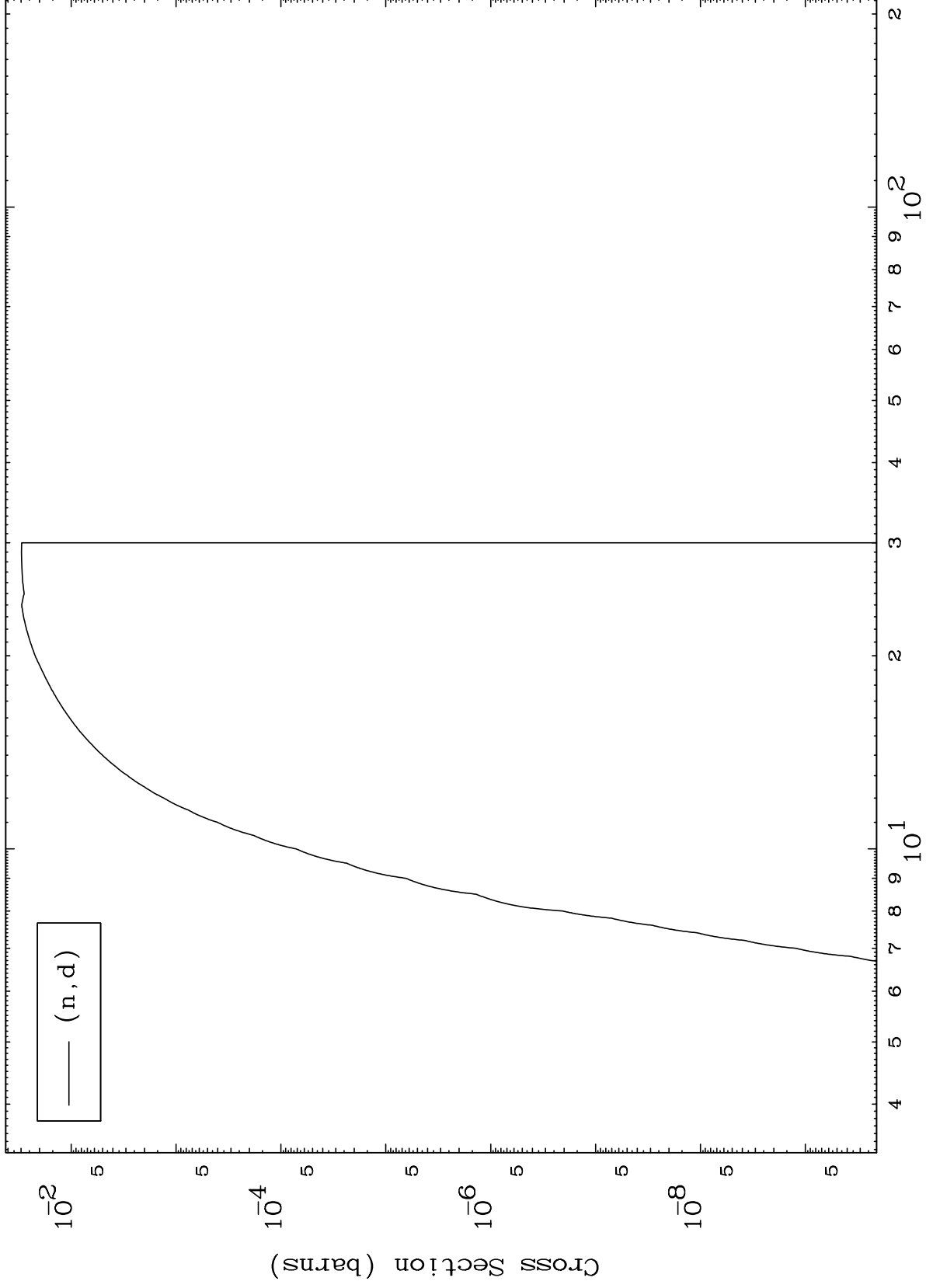
56-Ba-127



MAT 5616

(n,d) Levels
293 Kelvin Cross Sections

56-Ba-127



11

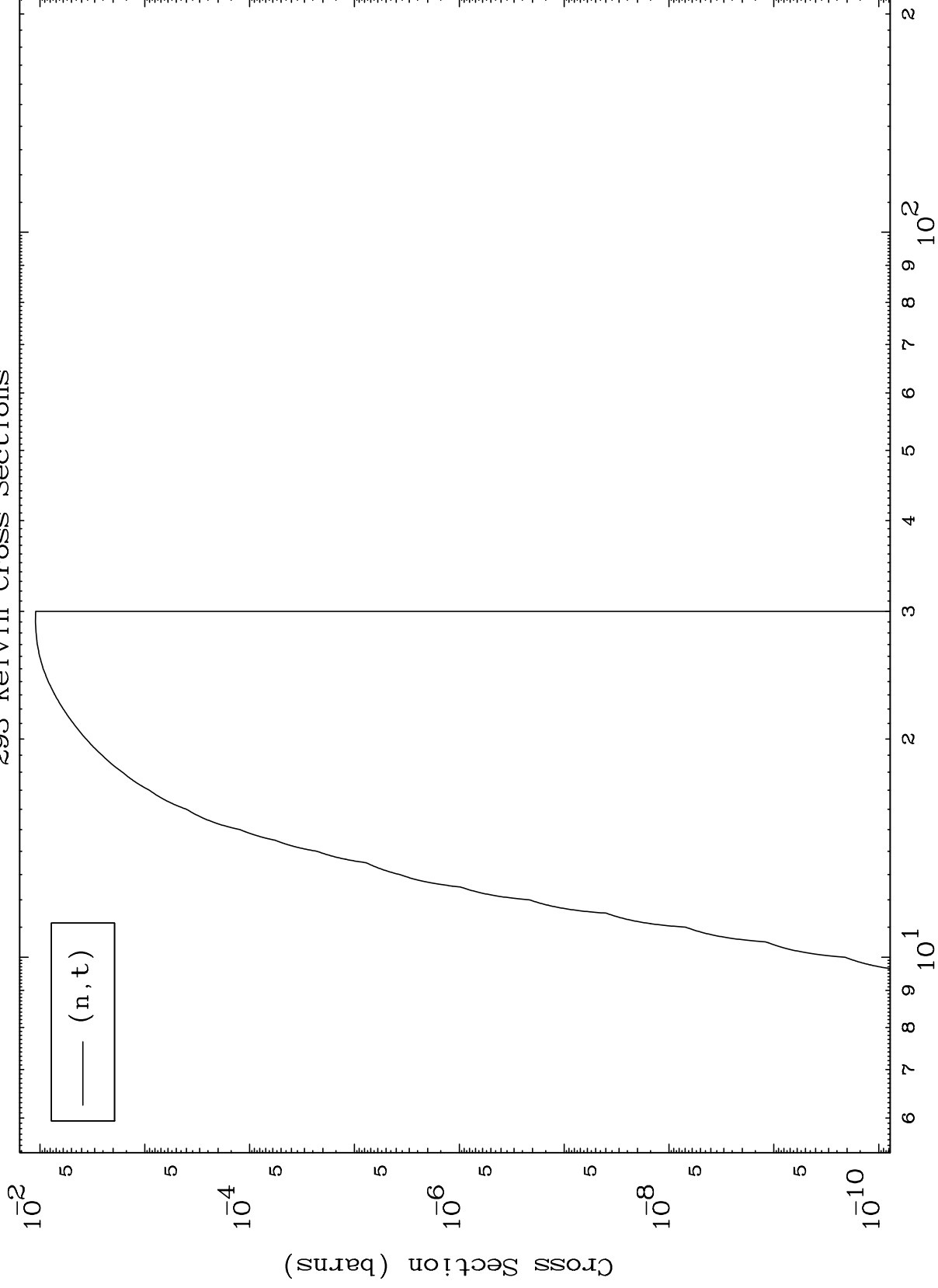
Incident Energy (MeV)

56-Ba-127

MAT 5616

(n,t) Levels
293 Kelvin Cross Sections

56-Ba-127



12

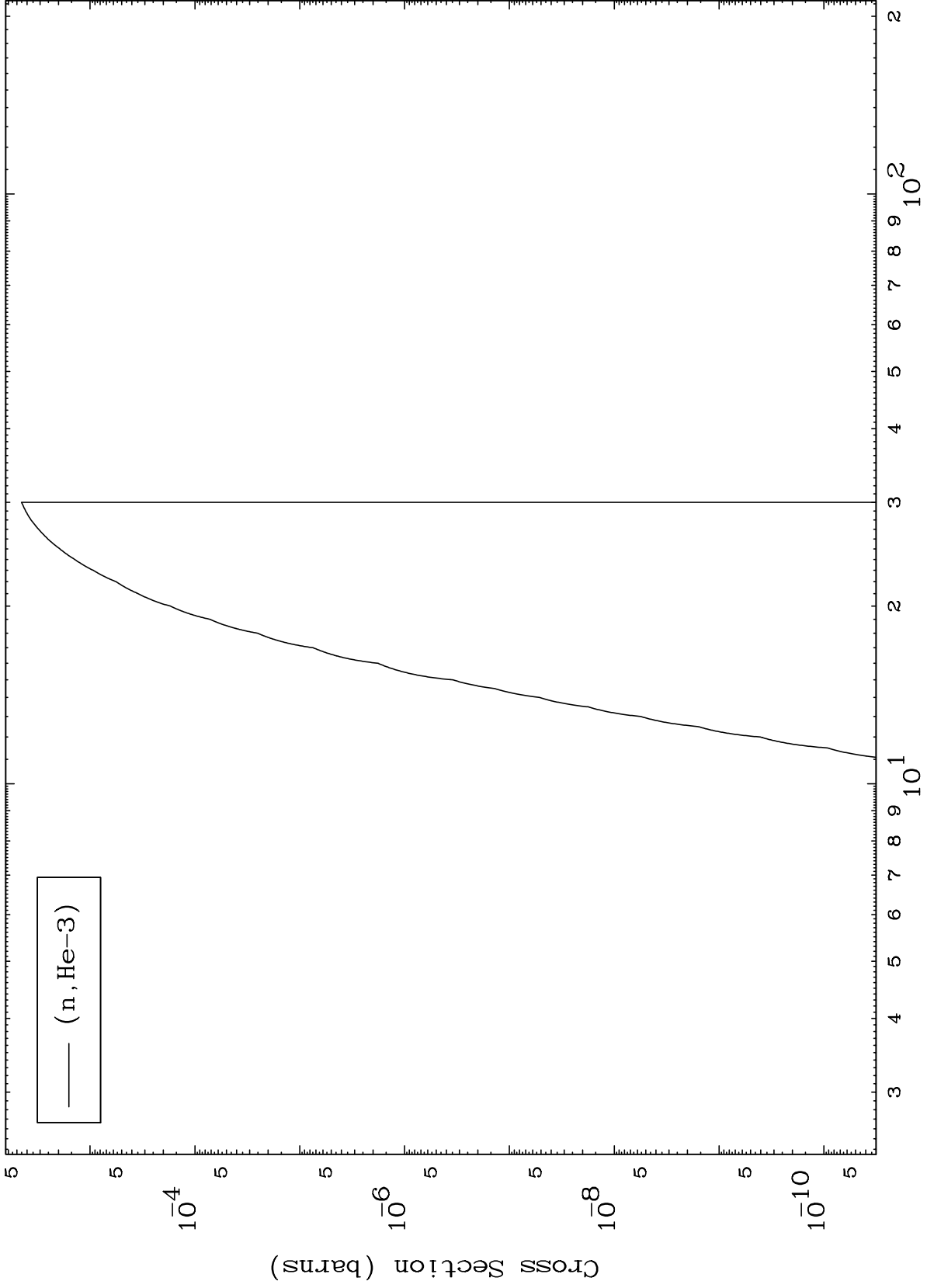
Incident Energy (MeV)

56-Ba-127

MAT 5616

(n,He3) Levels
293 Kelvin Cross Sections

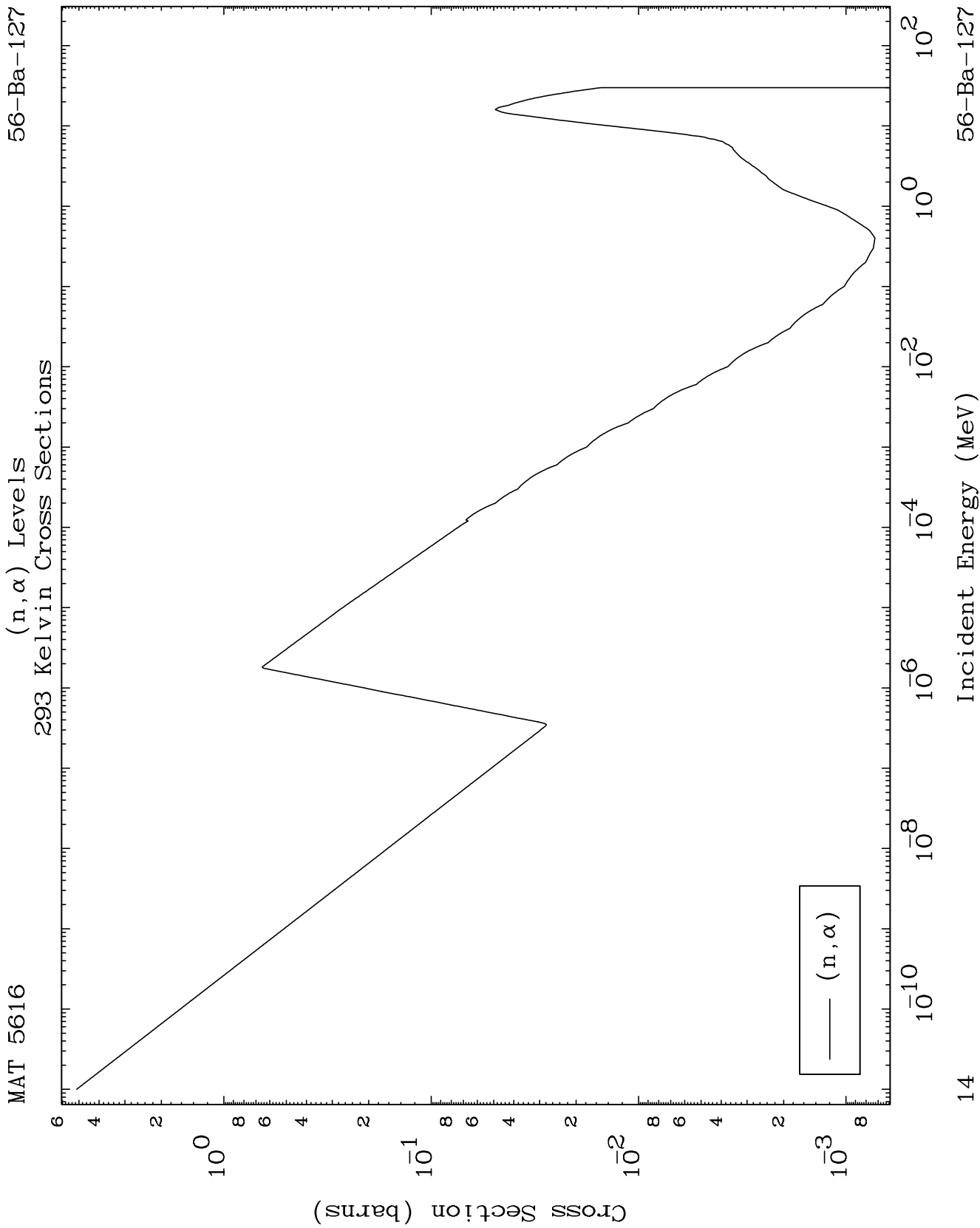
56-Ba-127

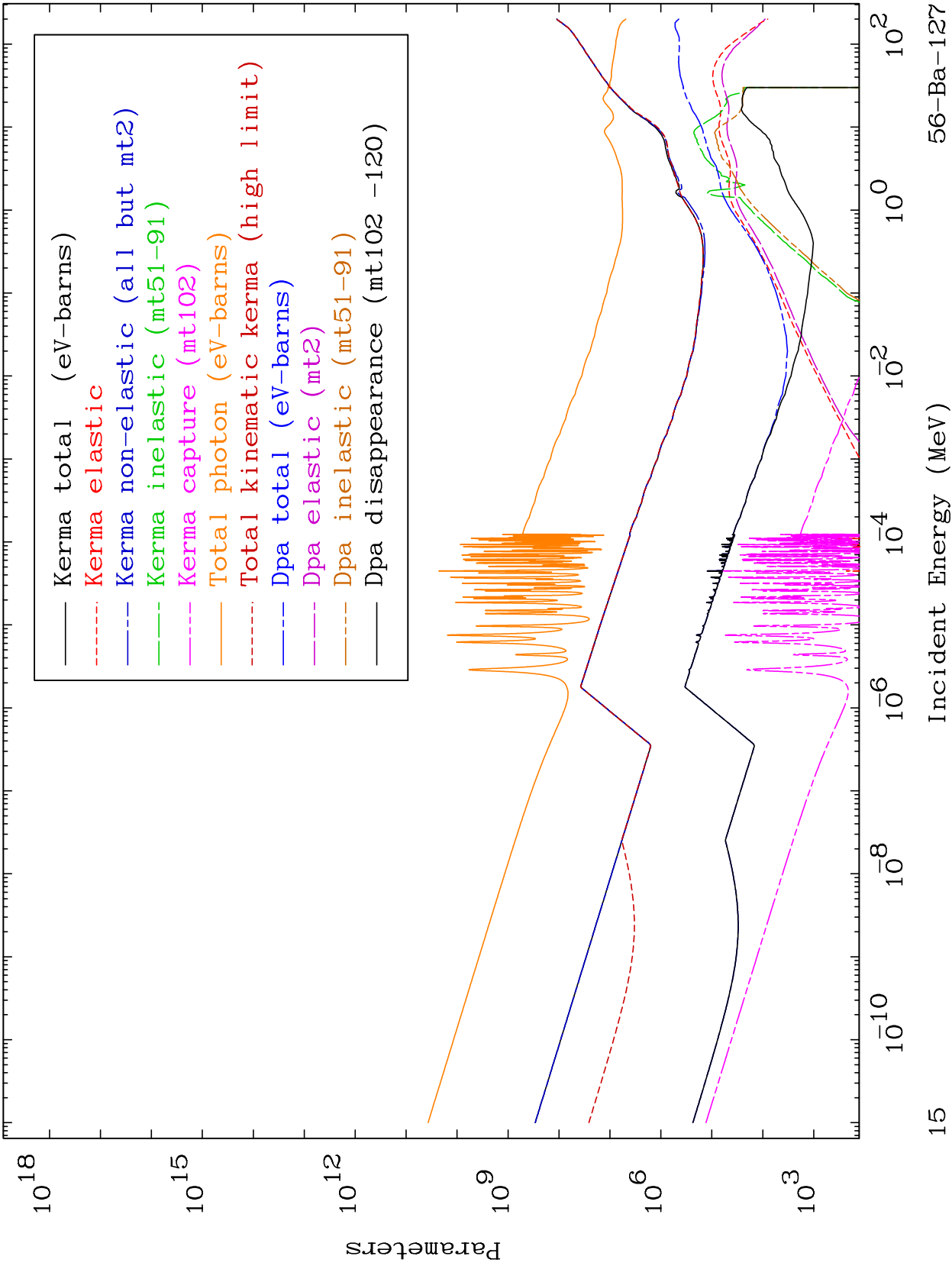


13

Incident Energy (MeV)

56-Ba-127

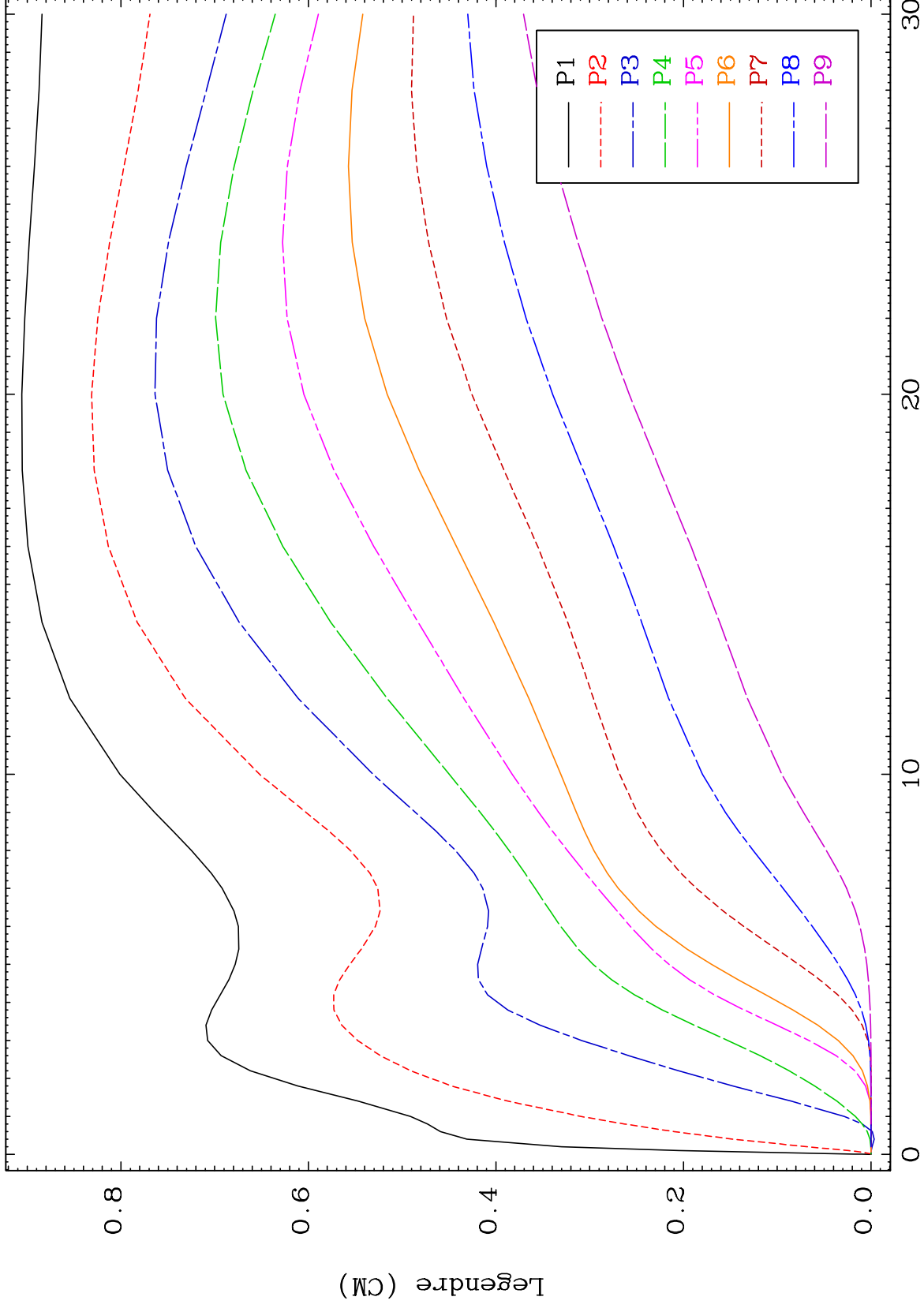




MAT 5616

Elastic Legendre Coefficients

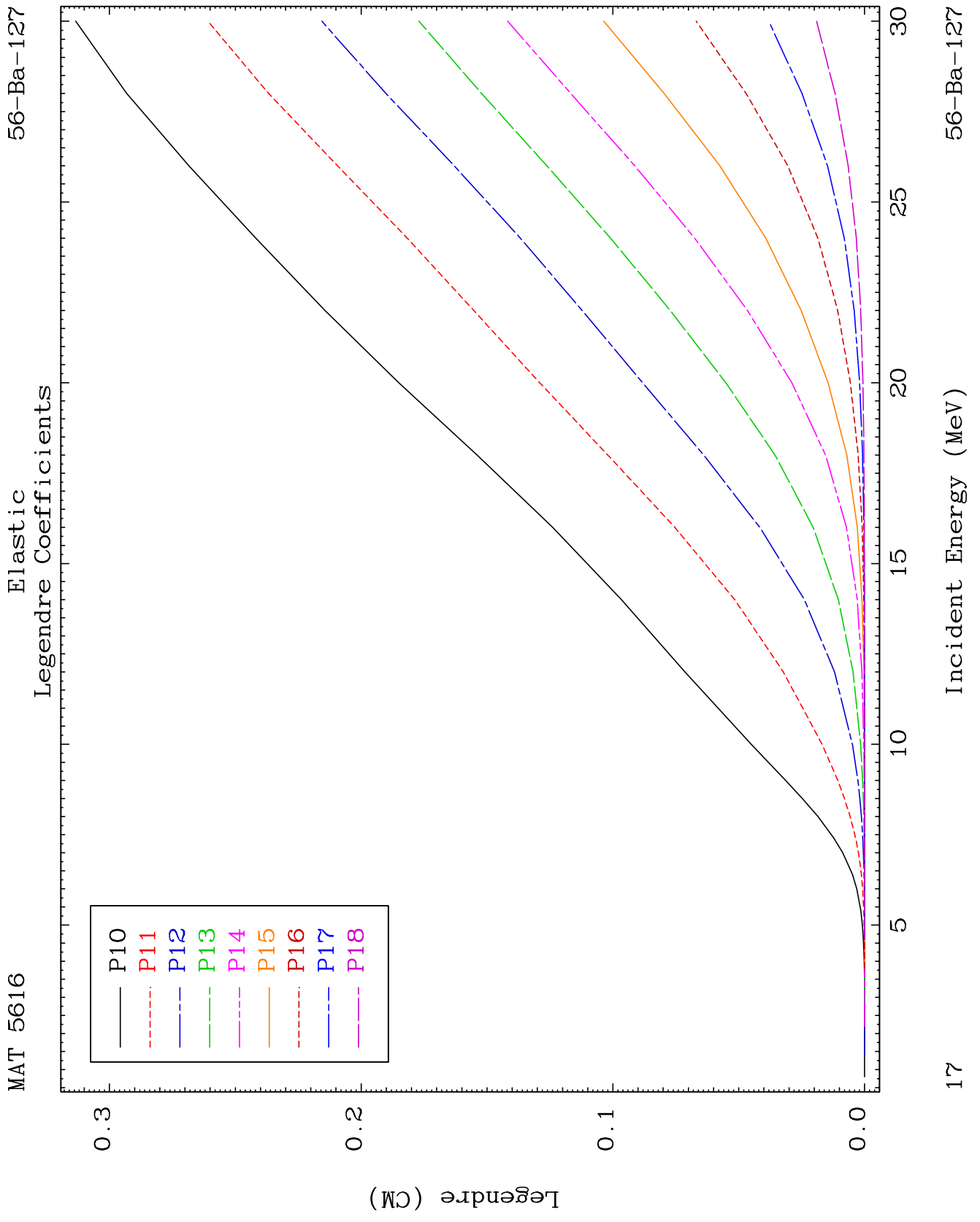
56-Ba-127



16

Incident Energy (MeV)

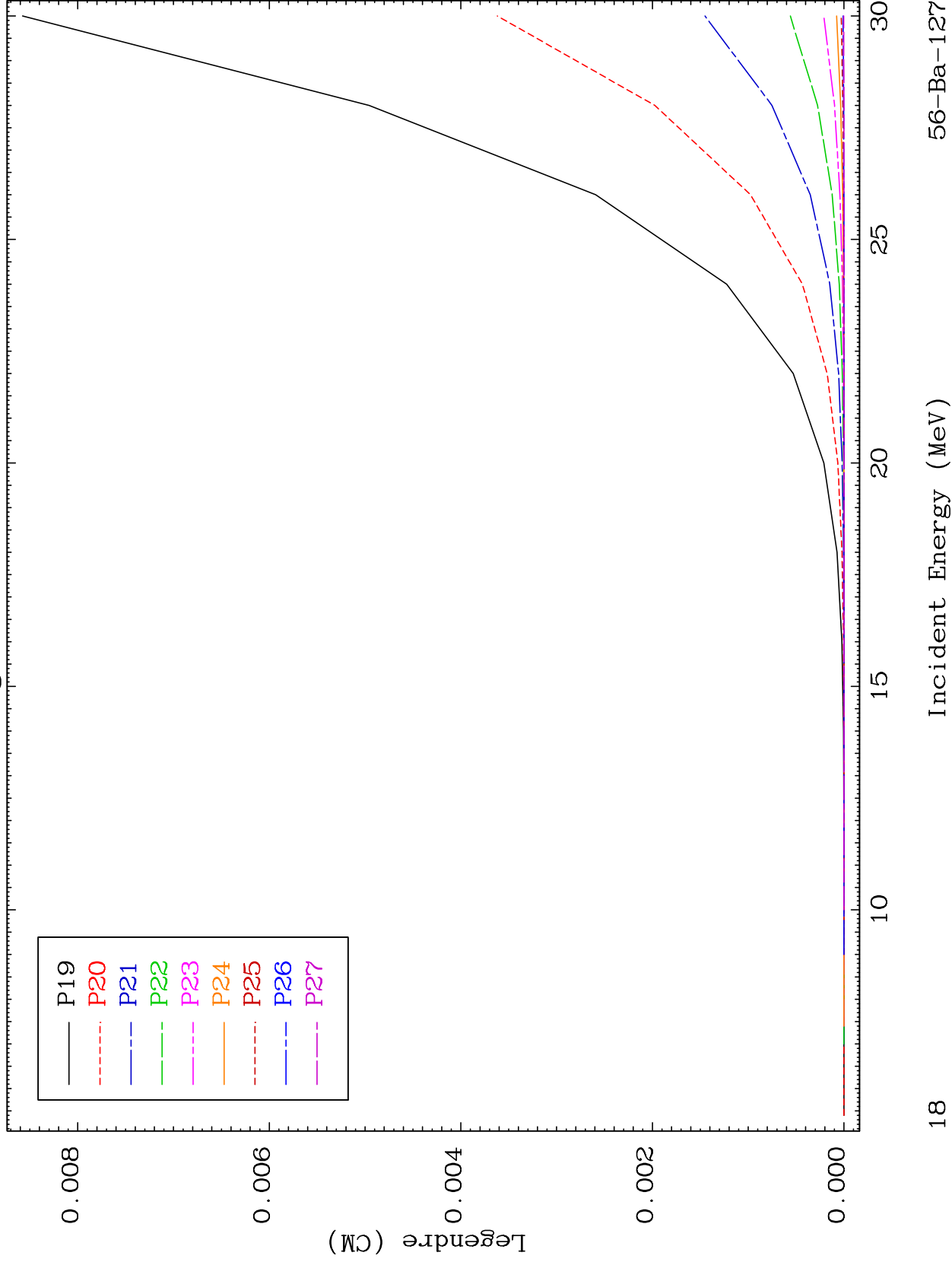
56-Ba-127



MAT 5616

Elastic Legendre Coefficients

56-Ba-127



18

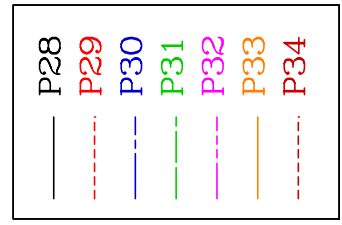
Incident Energy (MeV)

56-Ba-127

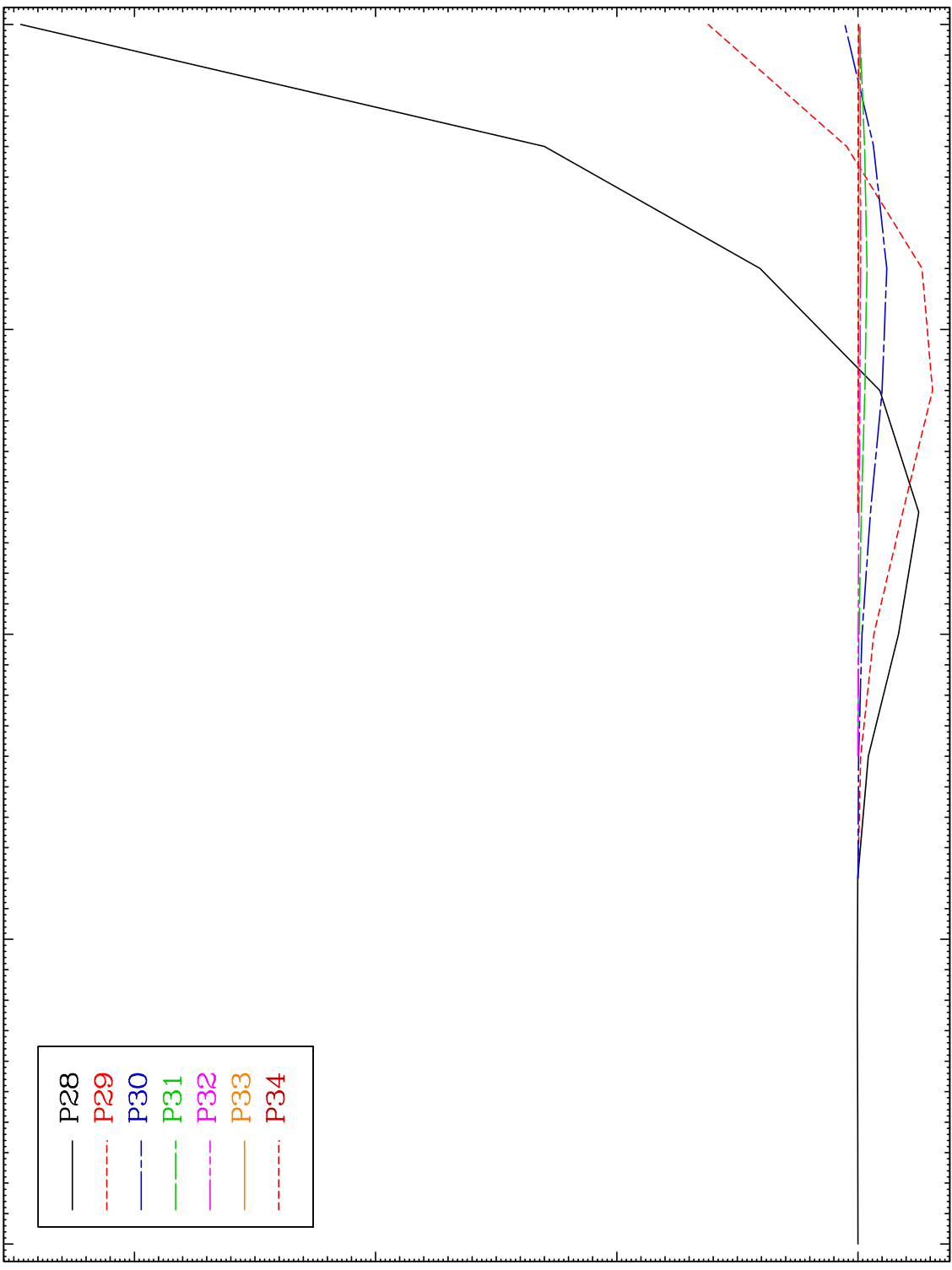
MAT 5616

Elastic Legendre Coefficients

56-Ba-127



$\times 10^{-7}$



10

15

20

25

30

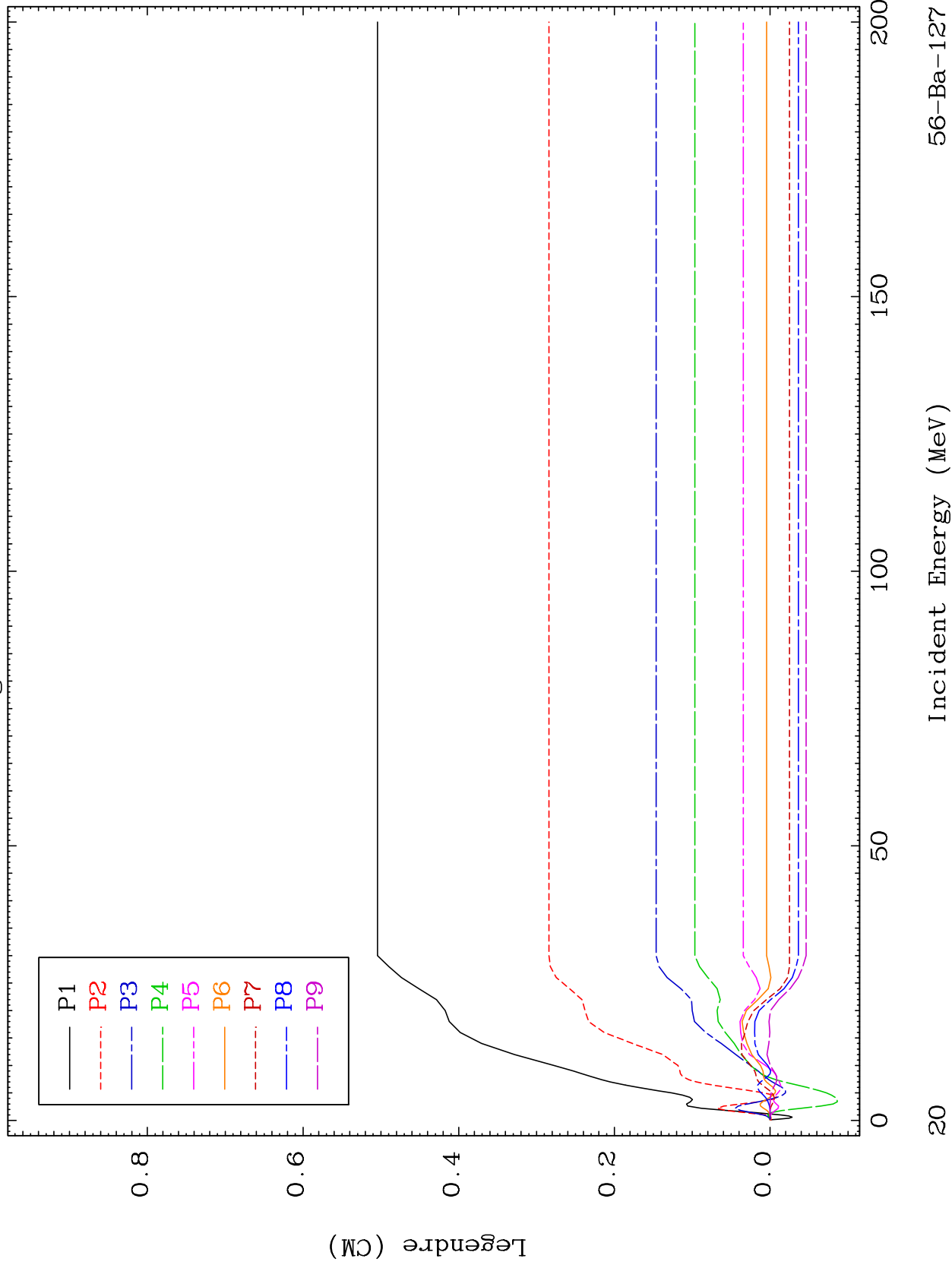
Incident Energy (MeV)

56-Ba-127

MAT 5616

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

56-Ba-127



56-Ba-127

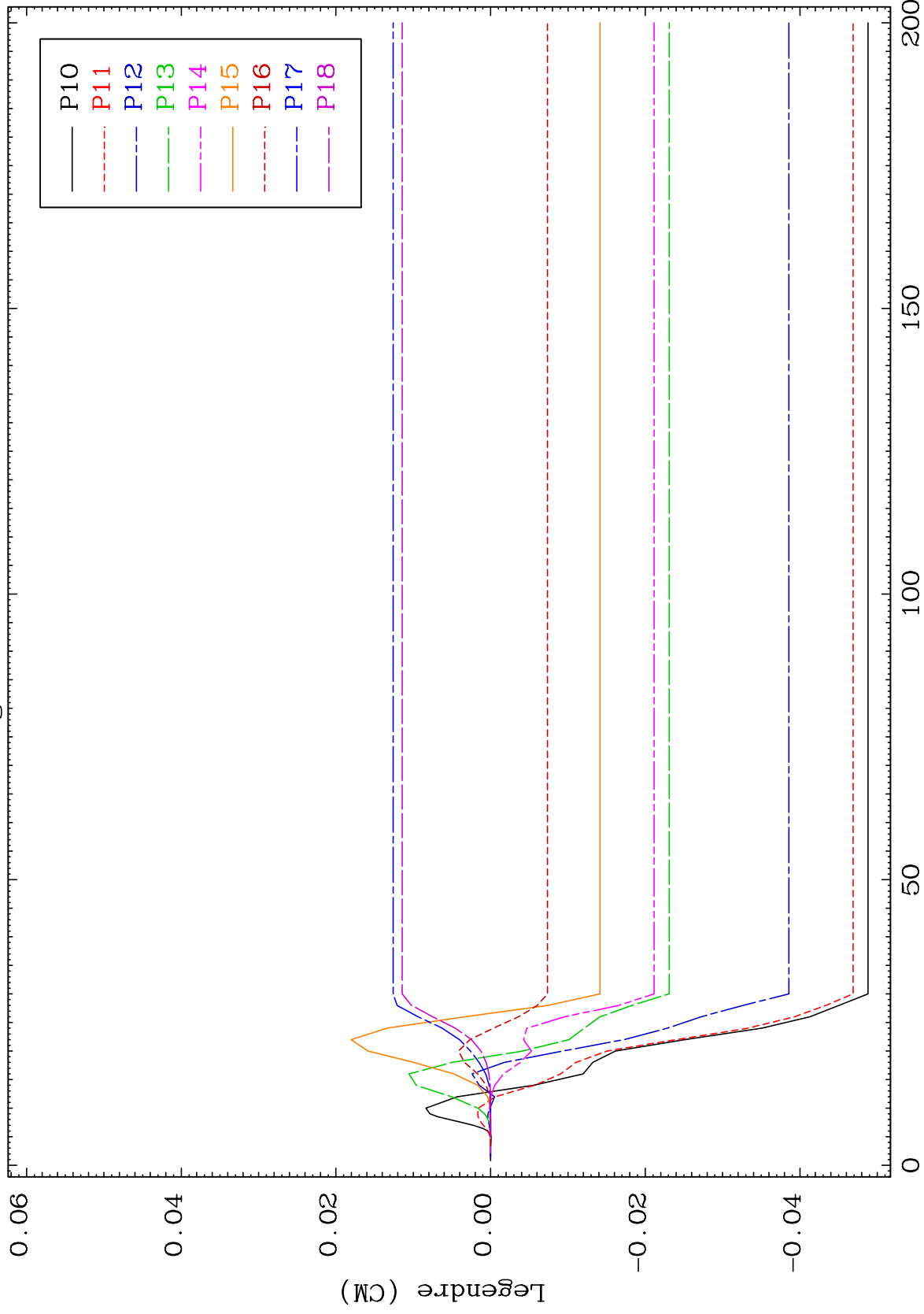
Incident Energy (MeV)

0

MAT 5616

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

56-Ba-127



21

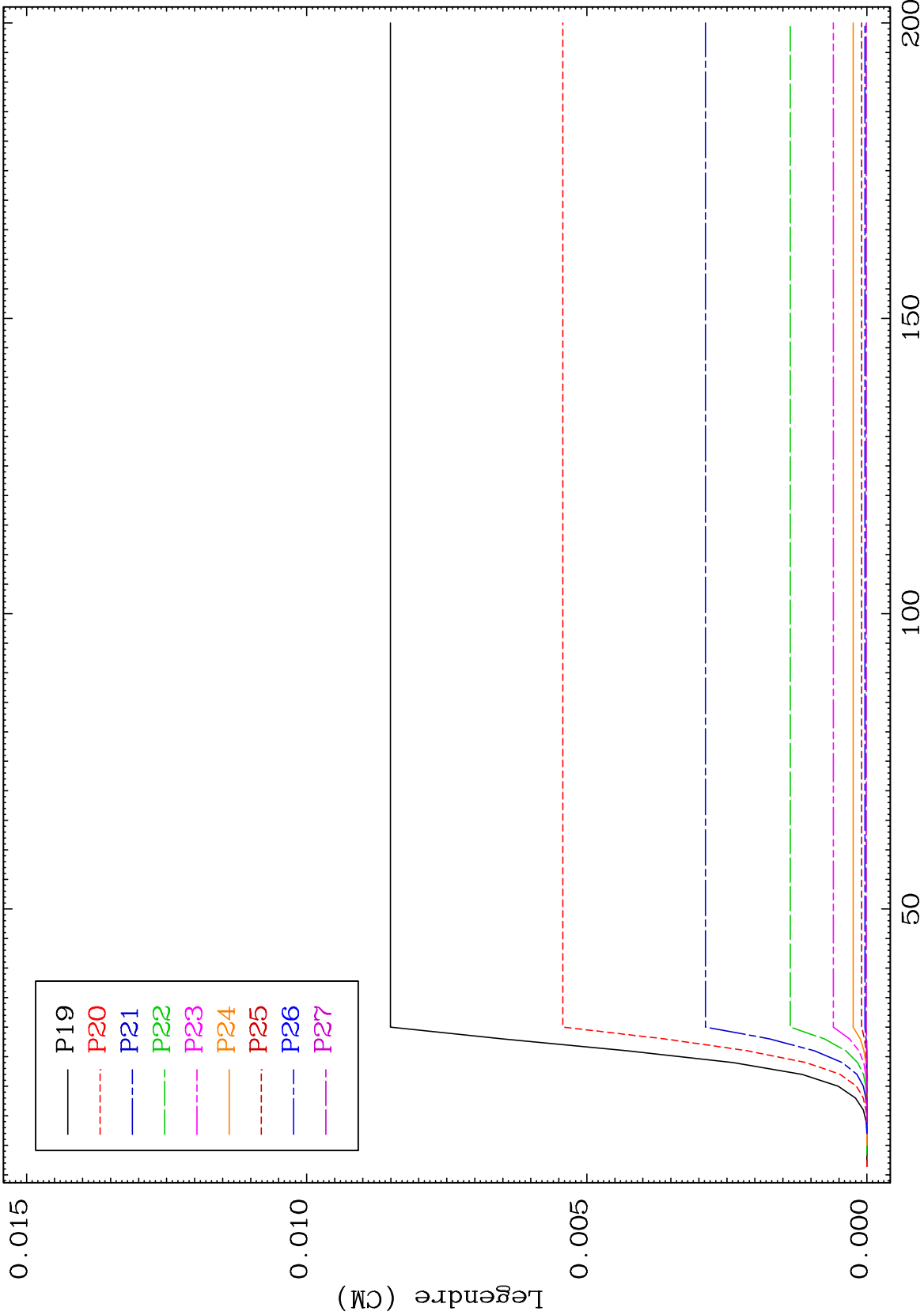
Incident Energy (MeV)

56-Ba-127

MAT 5616

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

56-Ba-127



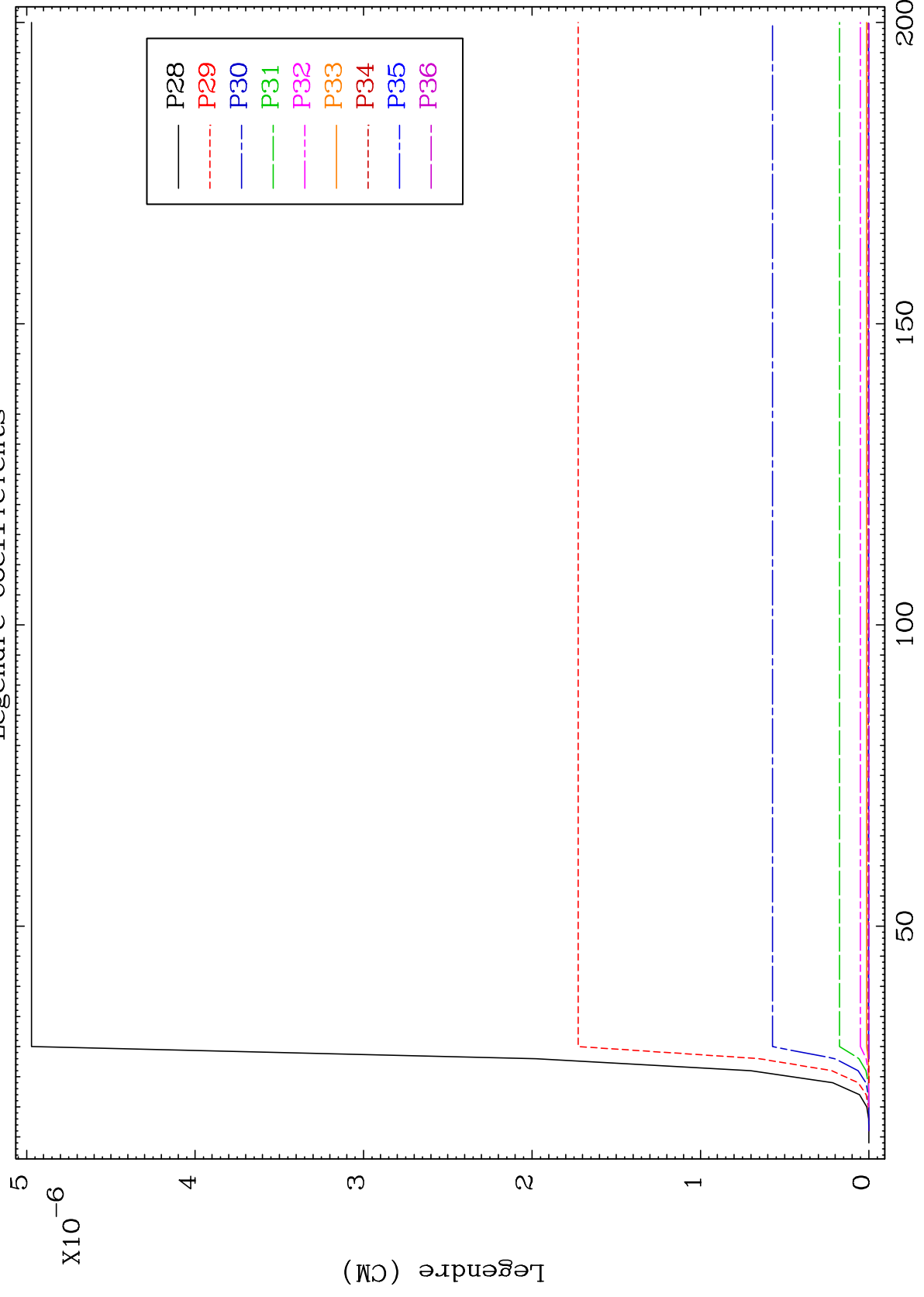
22

56-Ba-127

MAT 5616

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

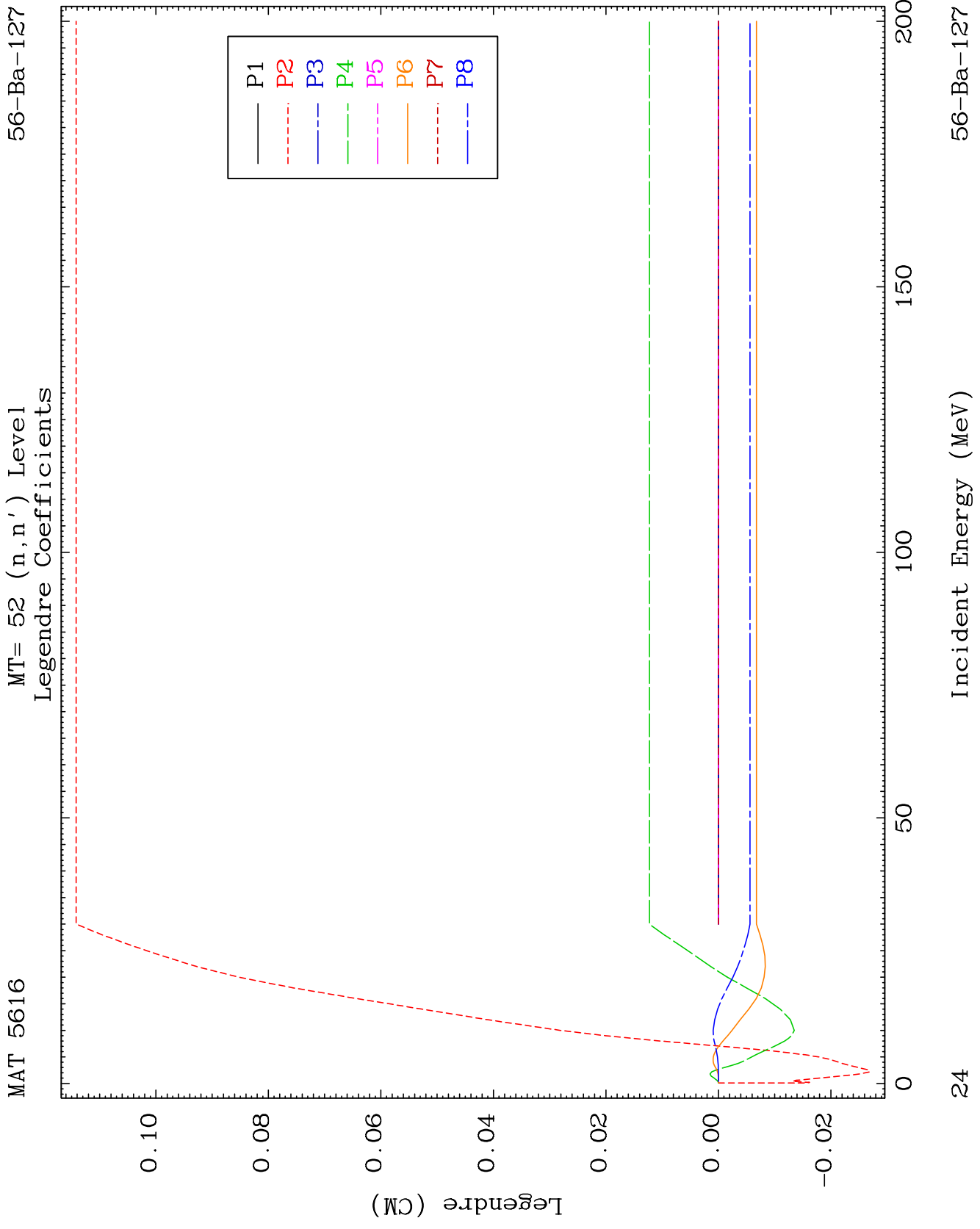
56-Ba-127



56-Ba-127

Incident Energy (MeV)

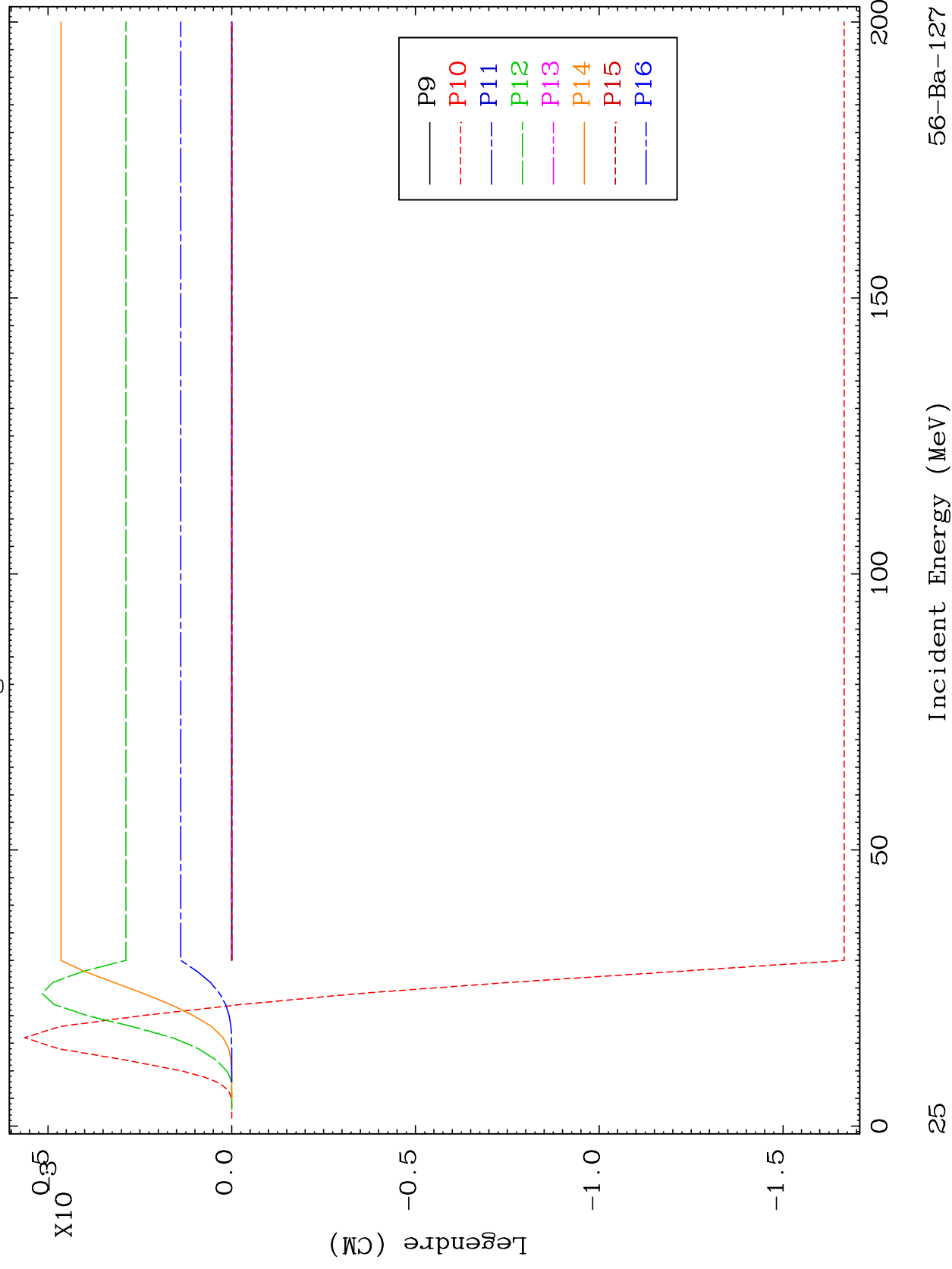
23



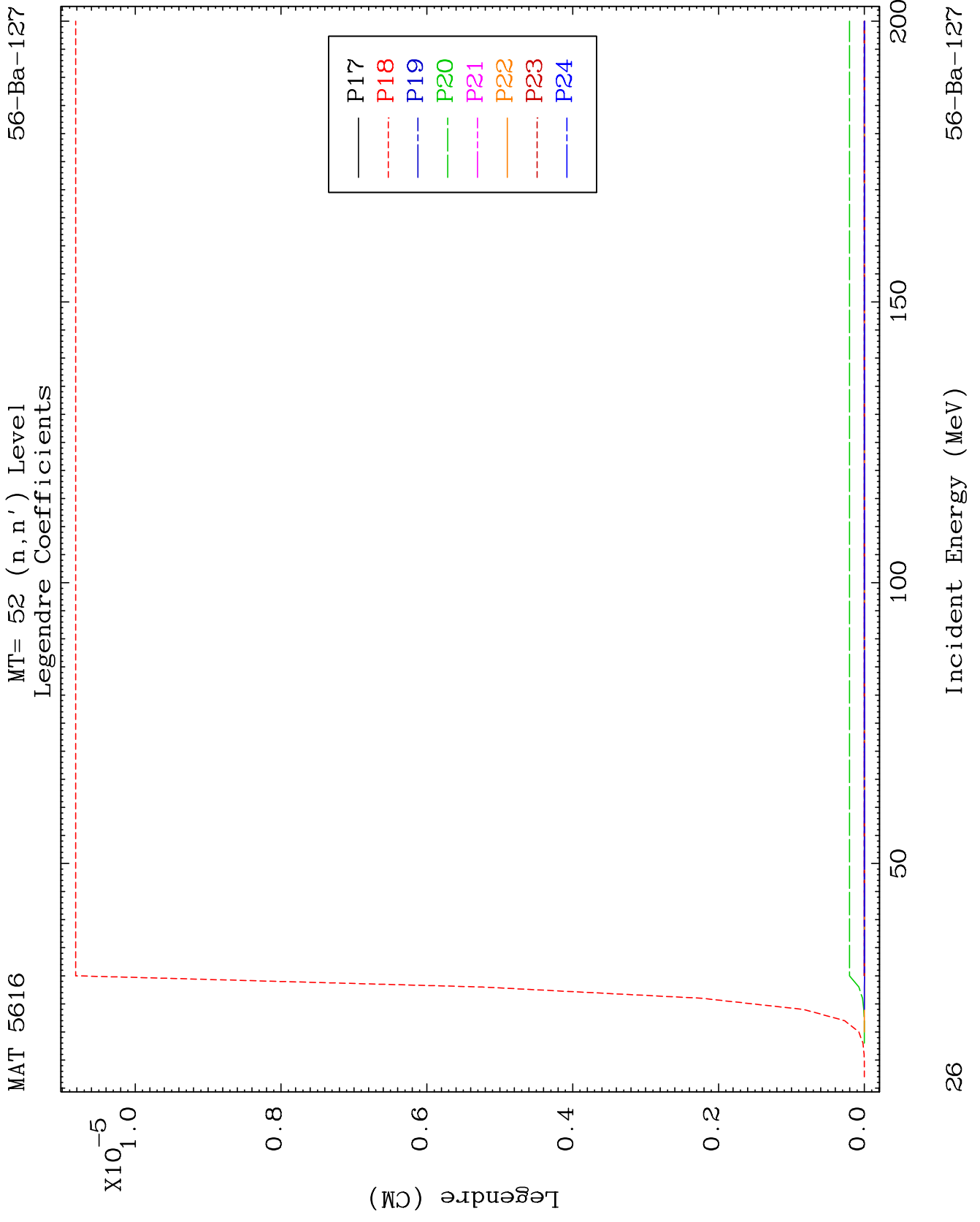
MAT 5616

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

56-Ba-127



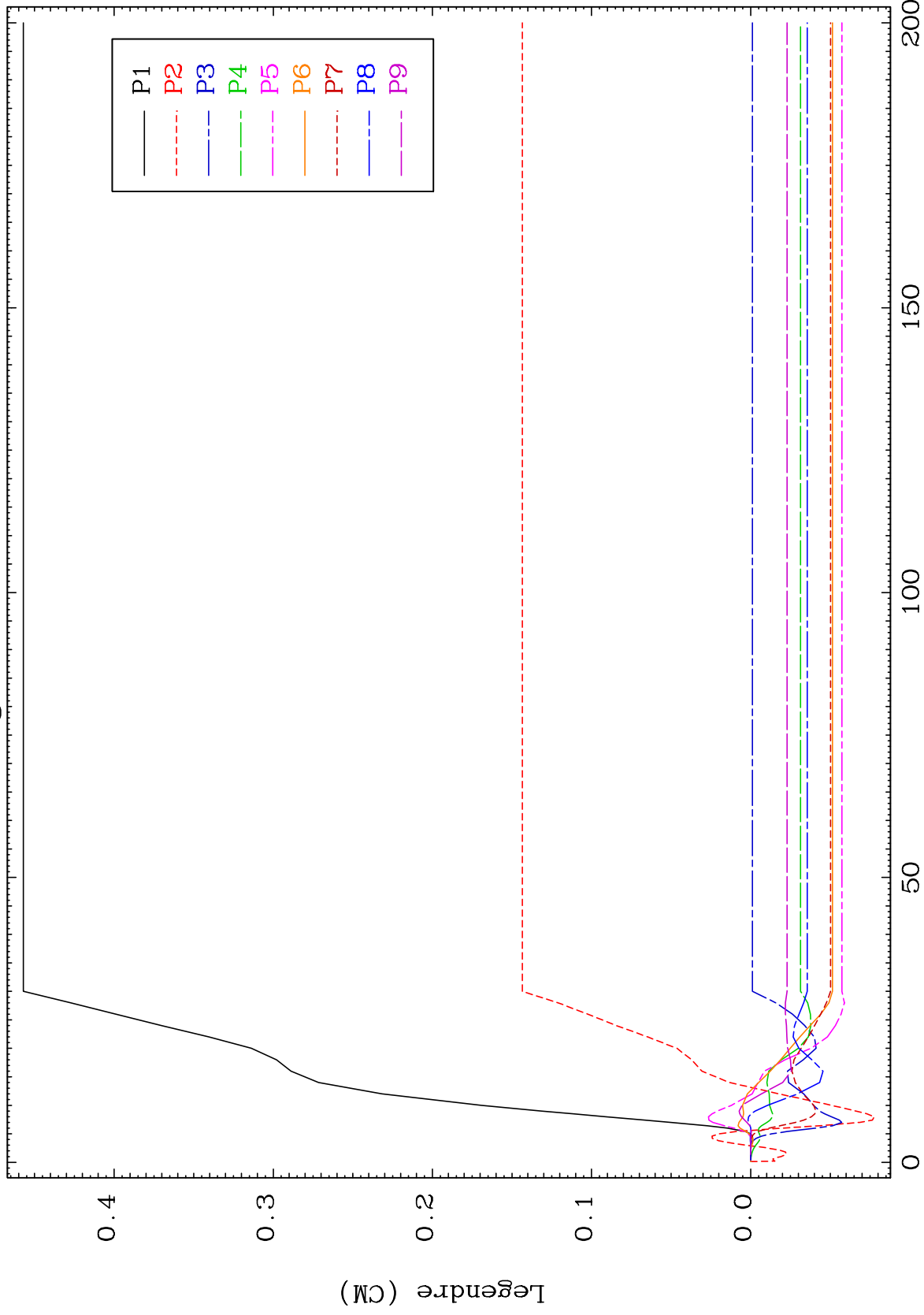
56-Ba-127



MAT 5616

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

56-Ba-127



27

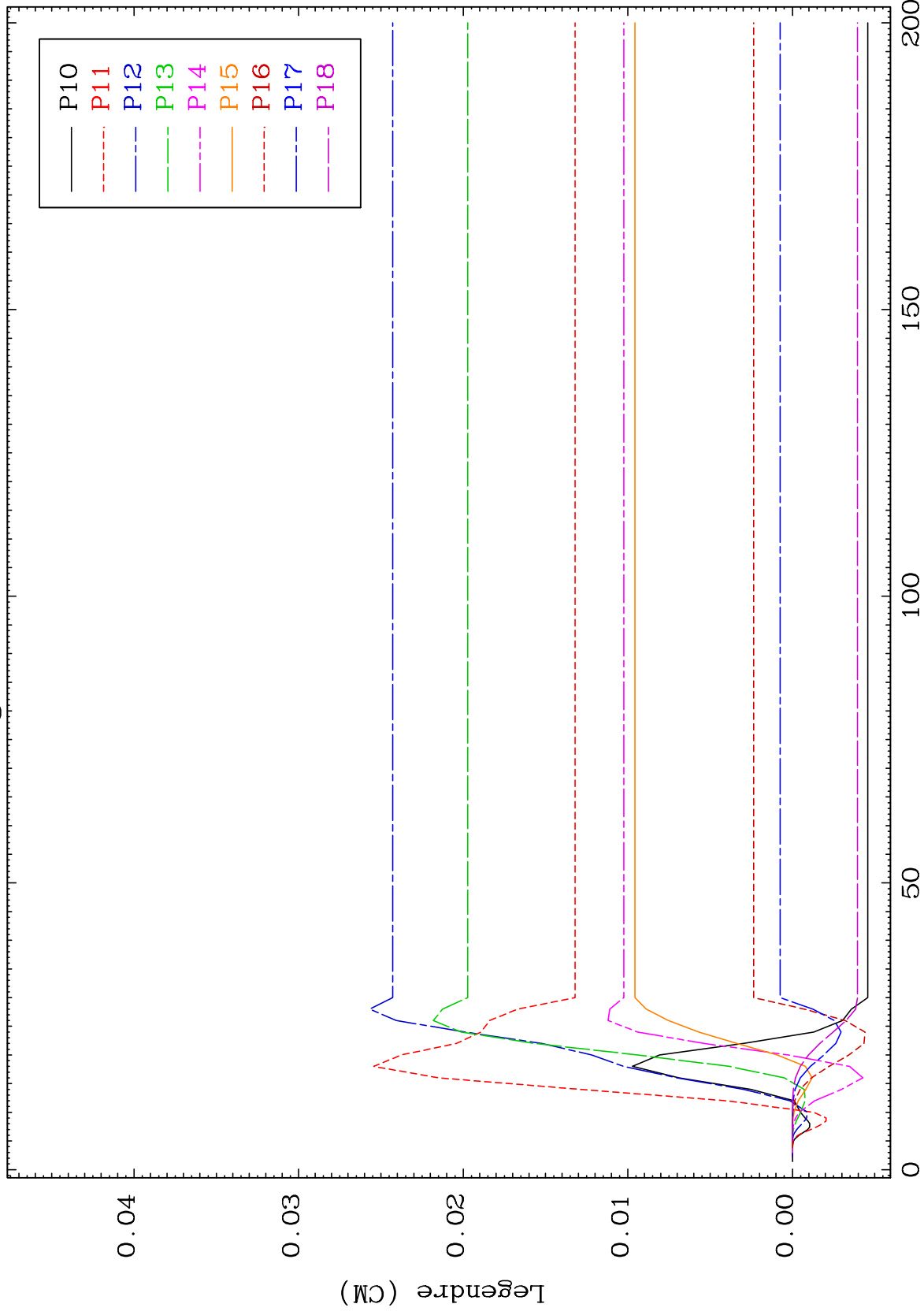
Incident Energy (MeV)

56-Ba-127

MAT 5616

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

56-Ba-127



28

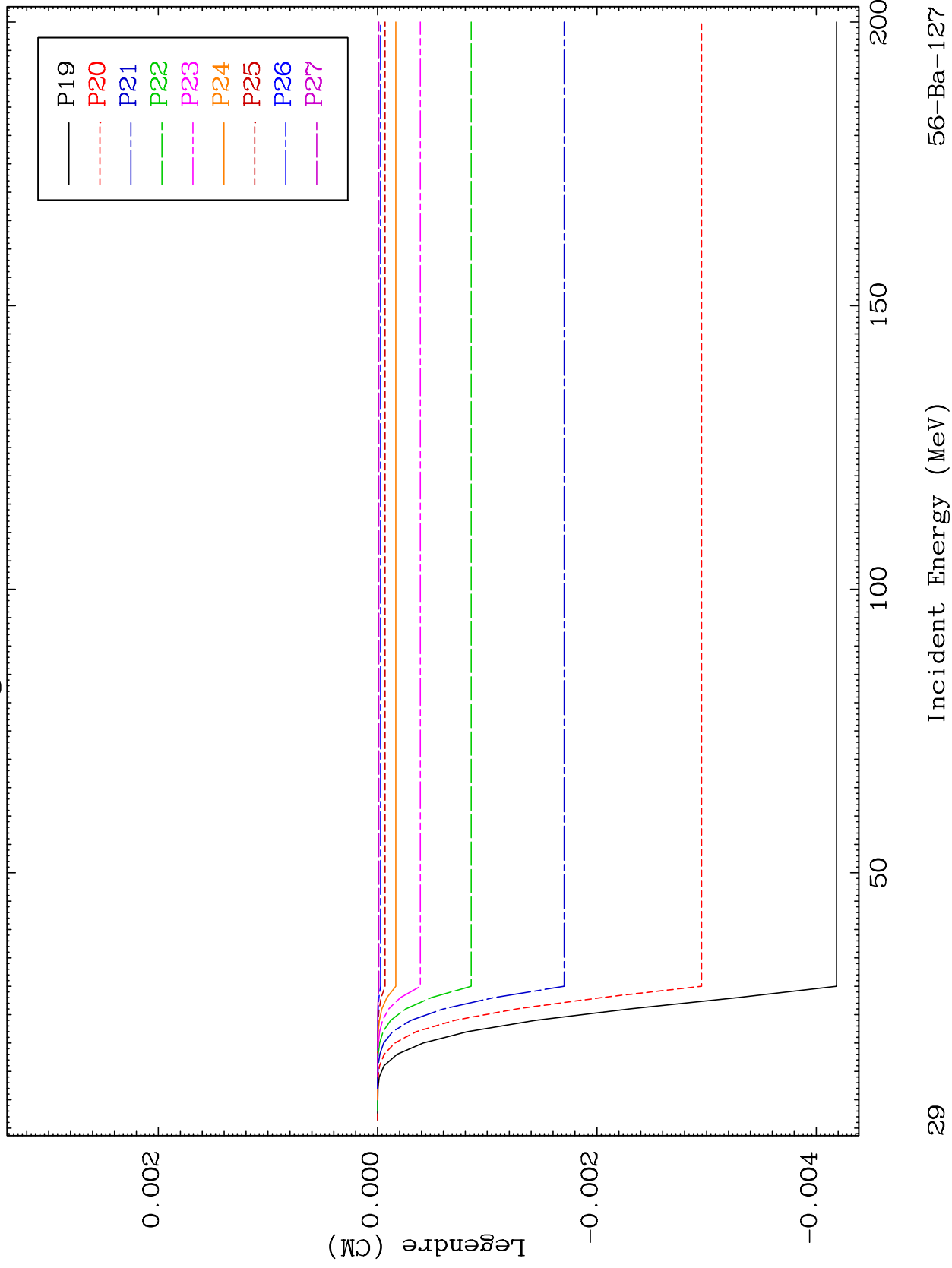
Incident Energy (MeV)

56-Ba-127

MAT 5616

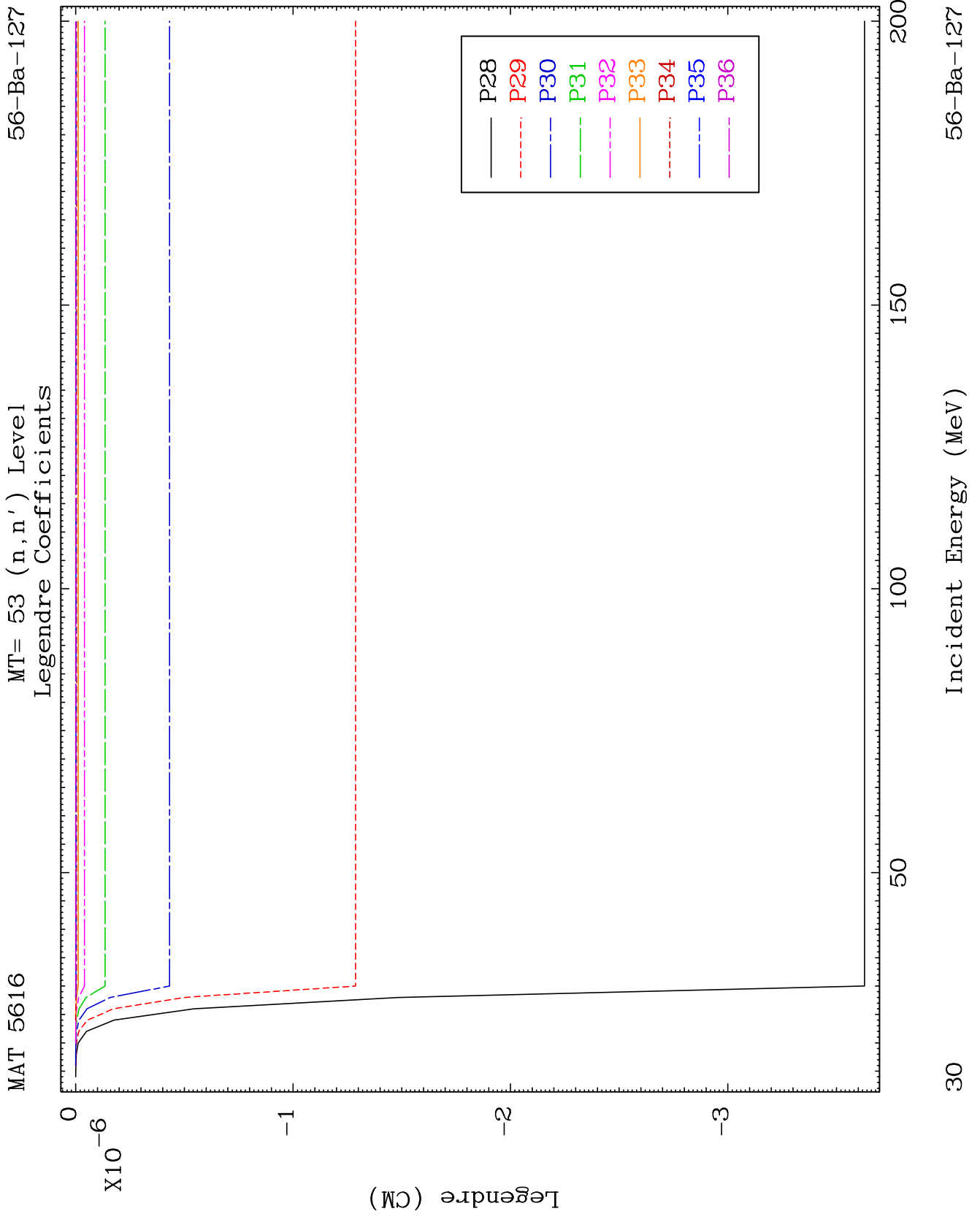
MT= 53 (n,n') Level
Legendre Coefficients

56-Ba-127



29

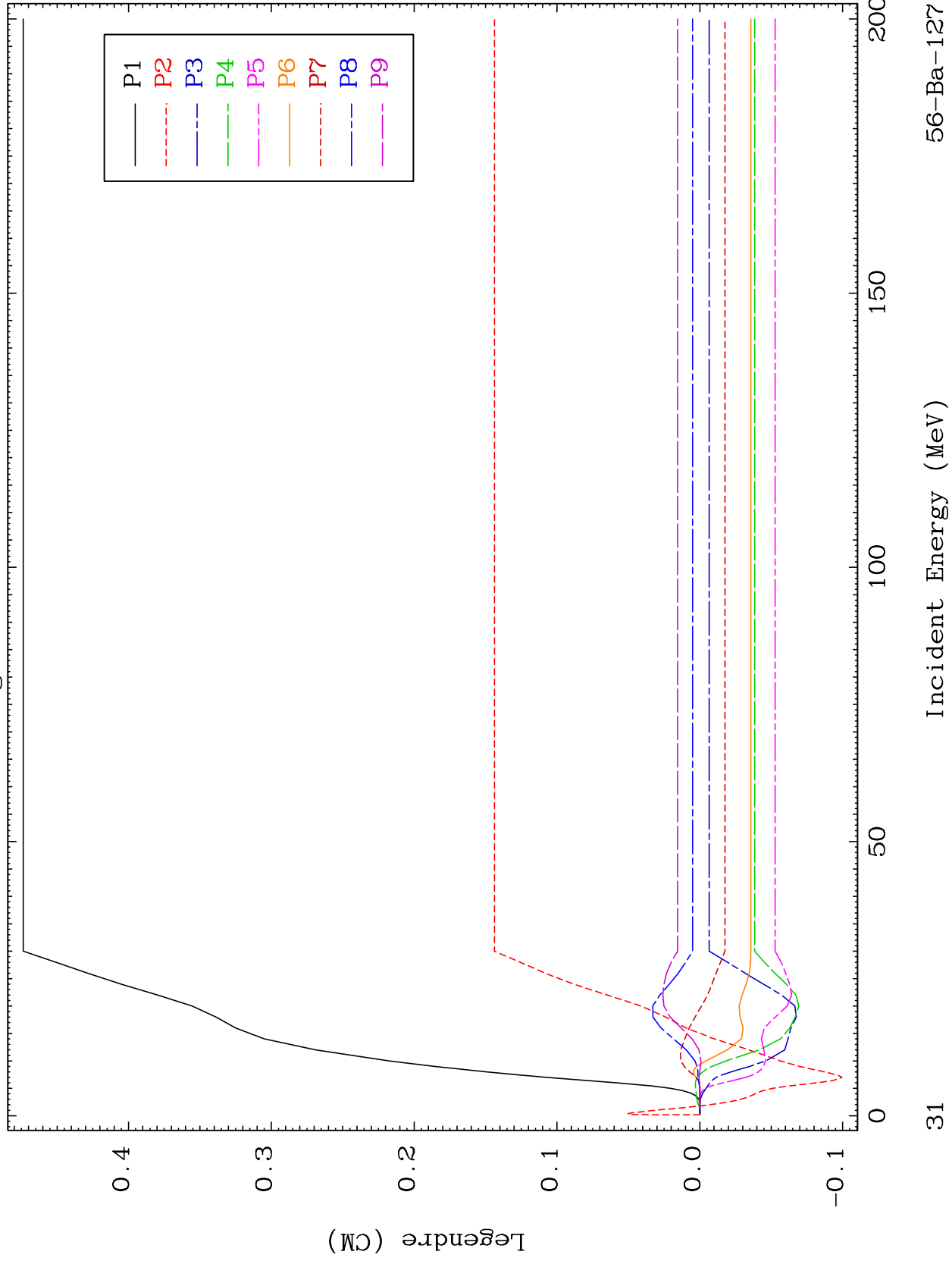
56-Ba-127



MAT 5616

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

56-Ba-127



56-Ba-127

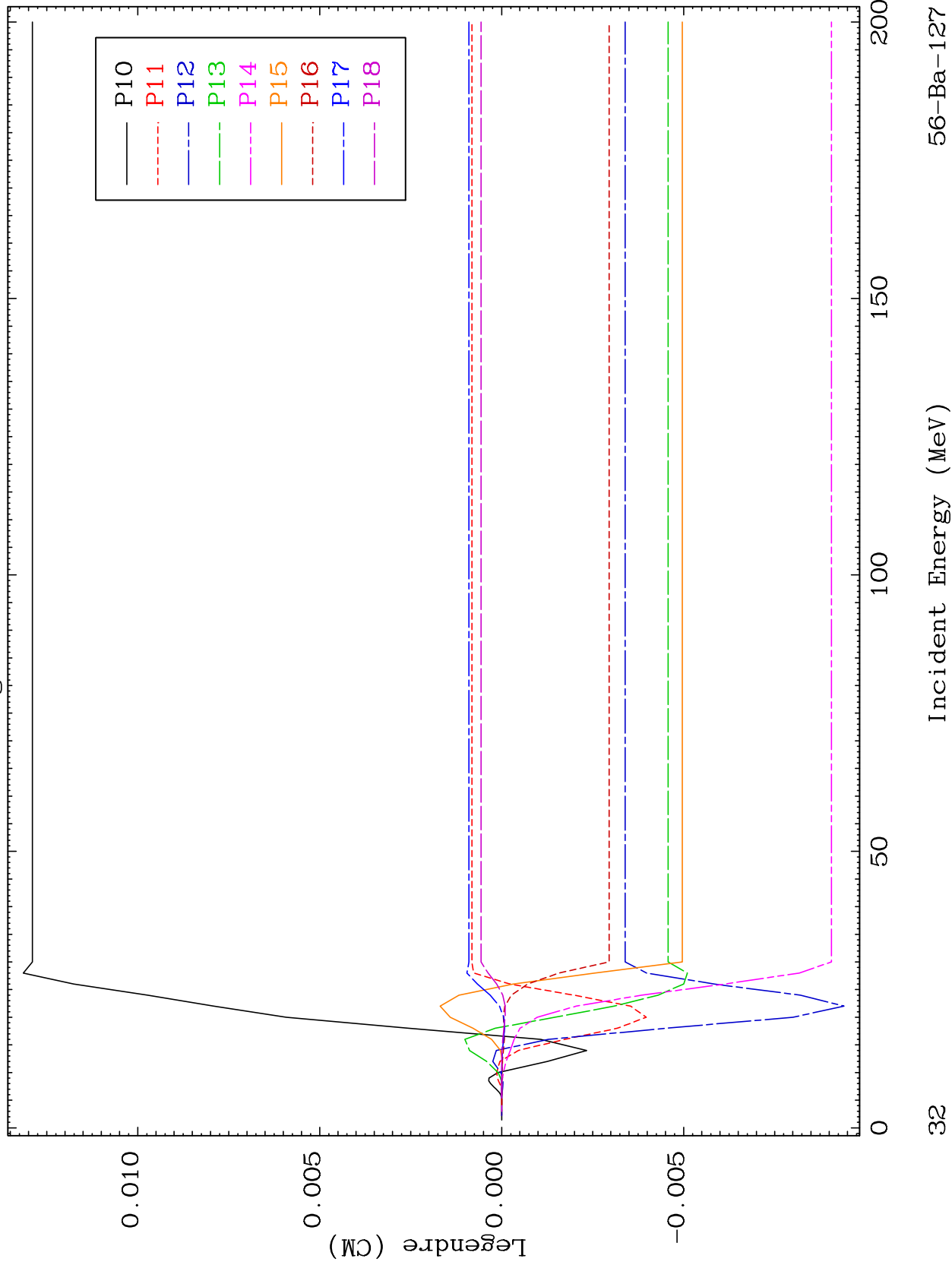
Incident Energy (MeV)

31

MAT 5616

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

56-Ba-127



32

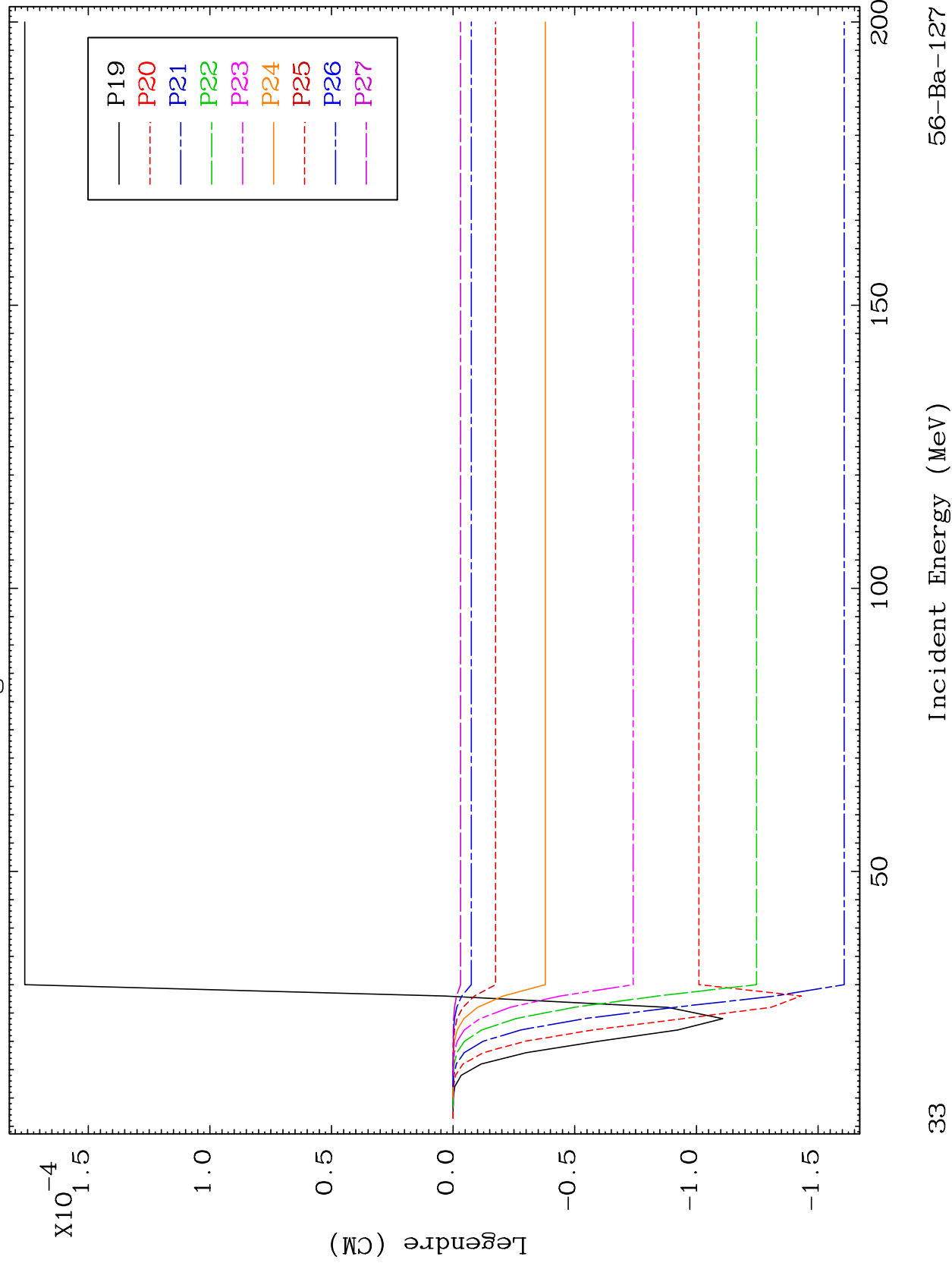
Incident Energy (MeV)

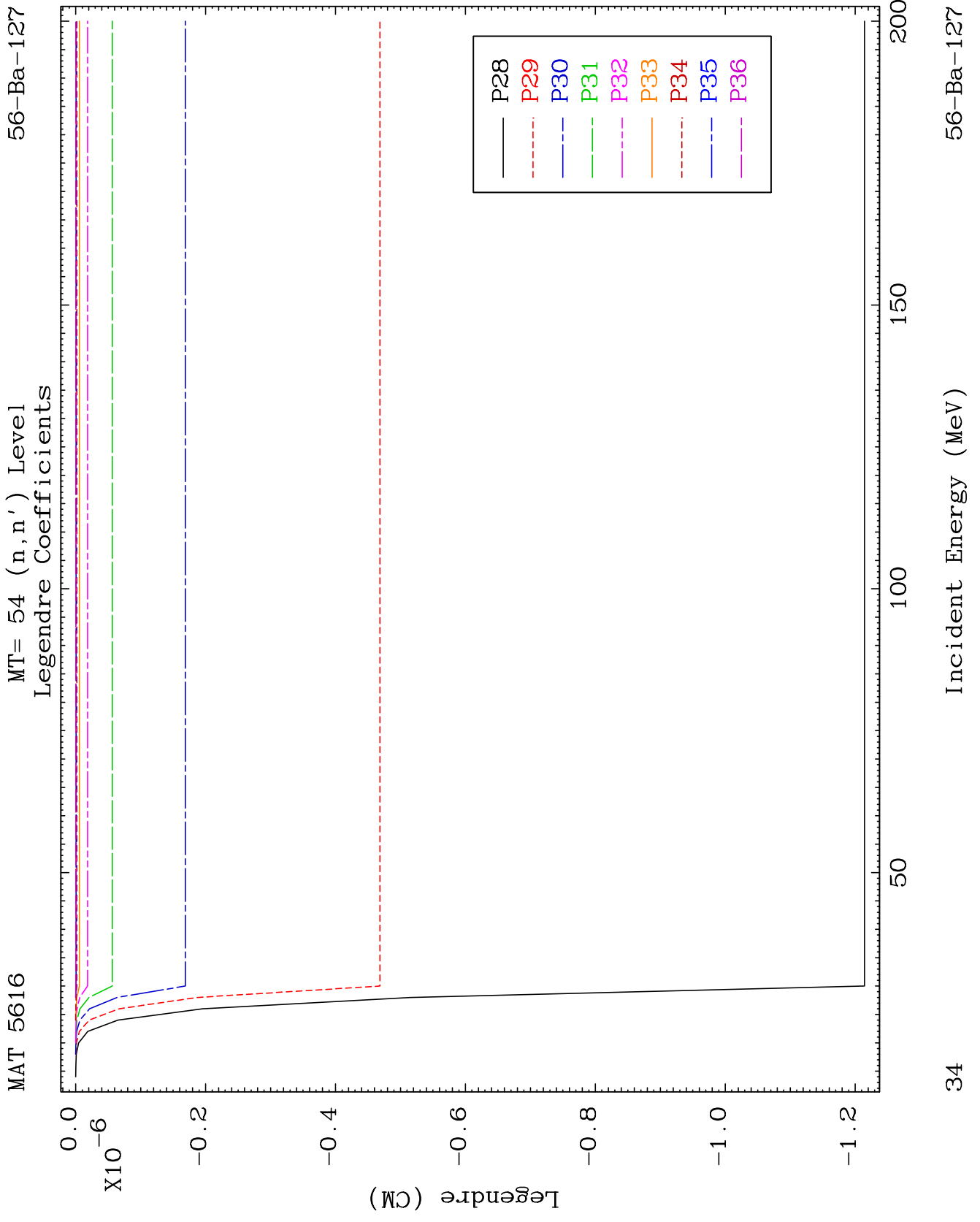
56-Ba-127

MAT 5616

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

56-Ba-127

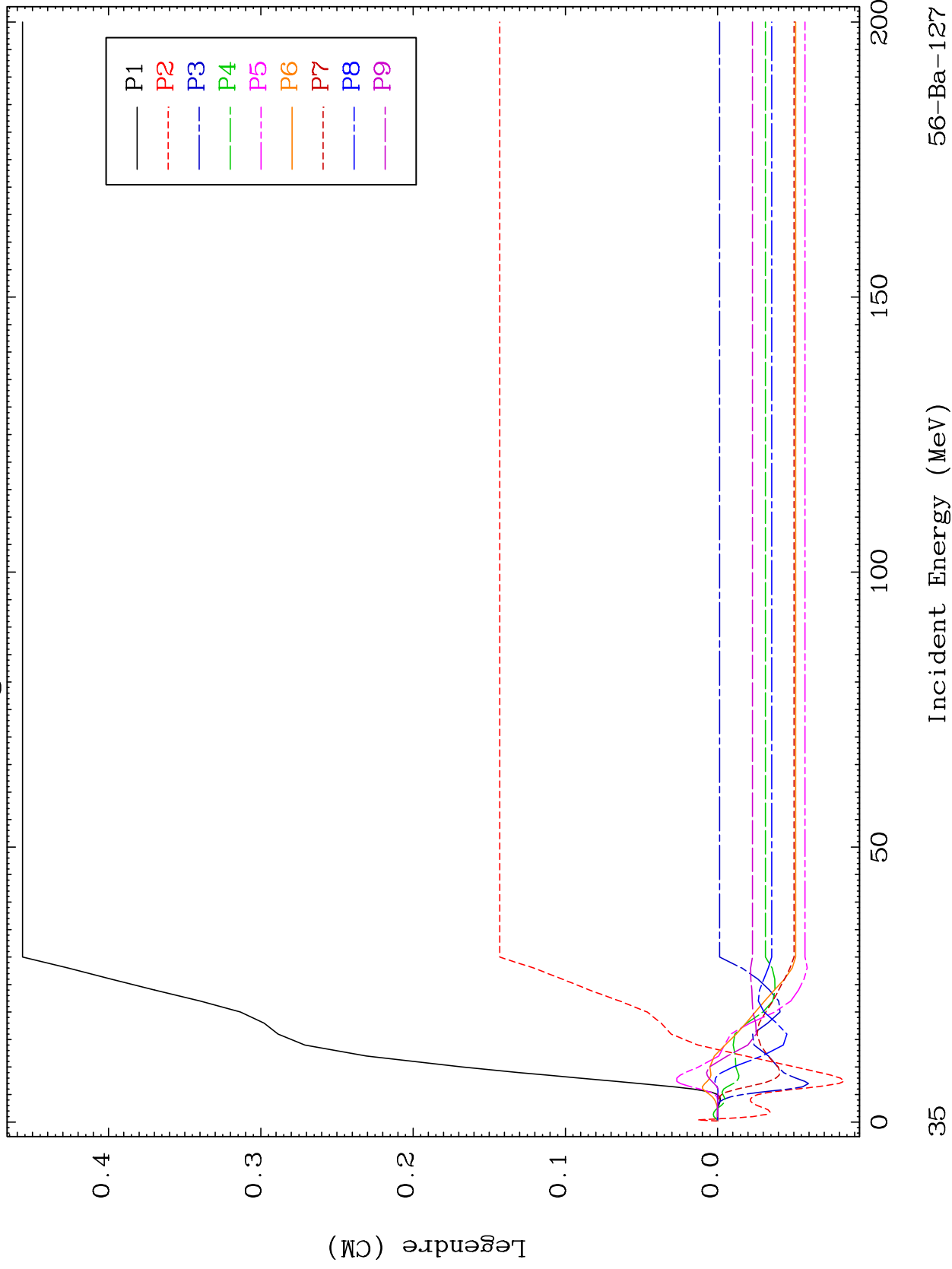




MAT 5616

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

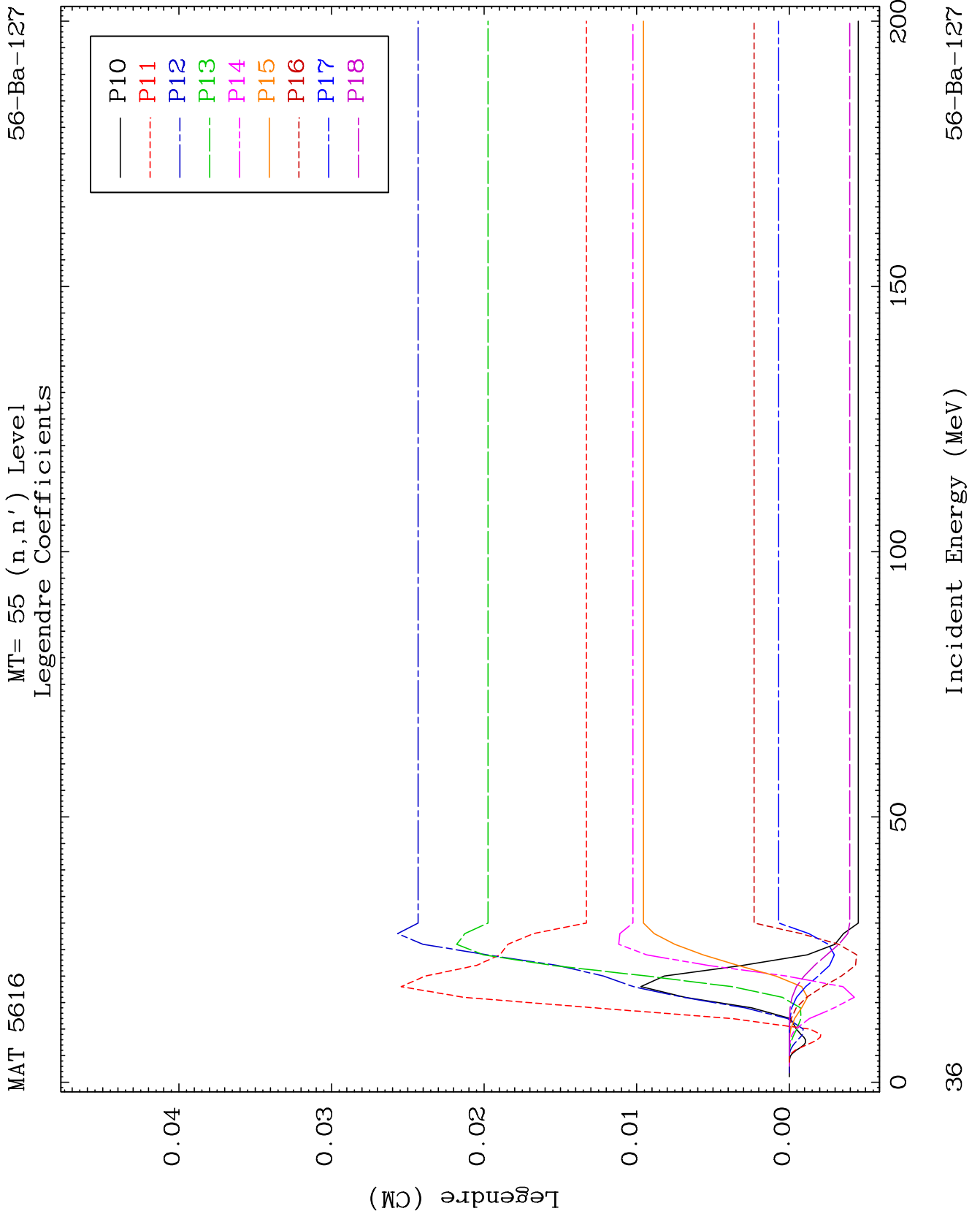
56-Ba-127



56-Ba-127

Incident Energy (MeV)

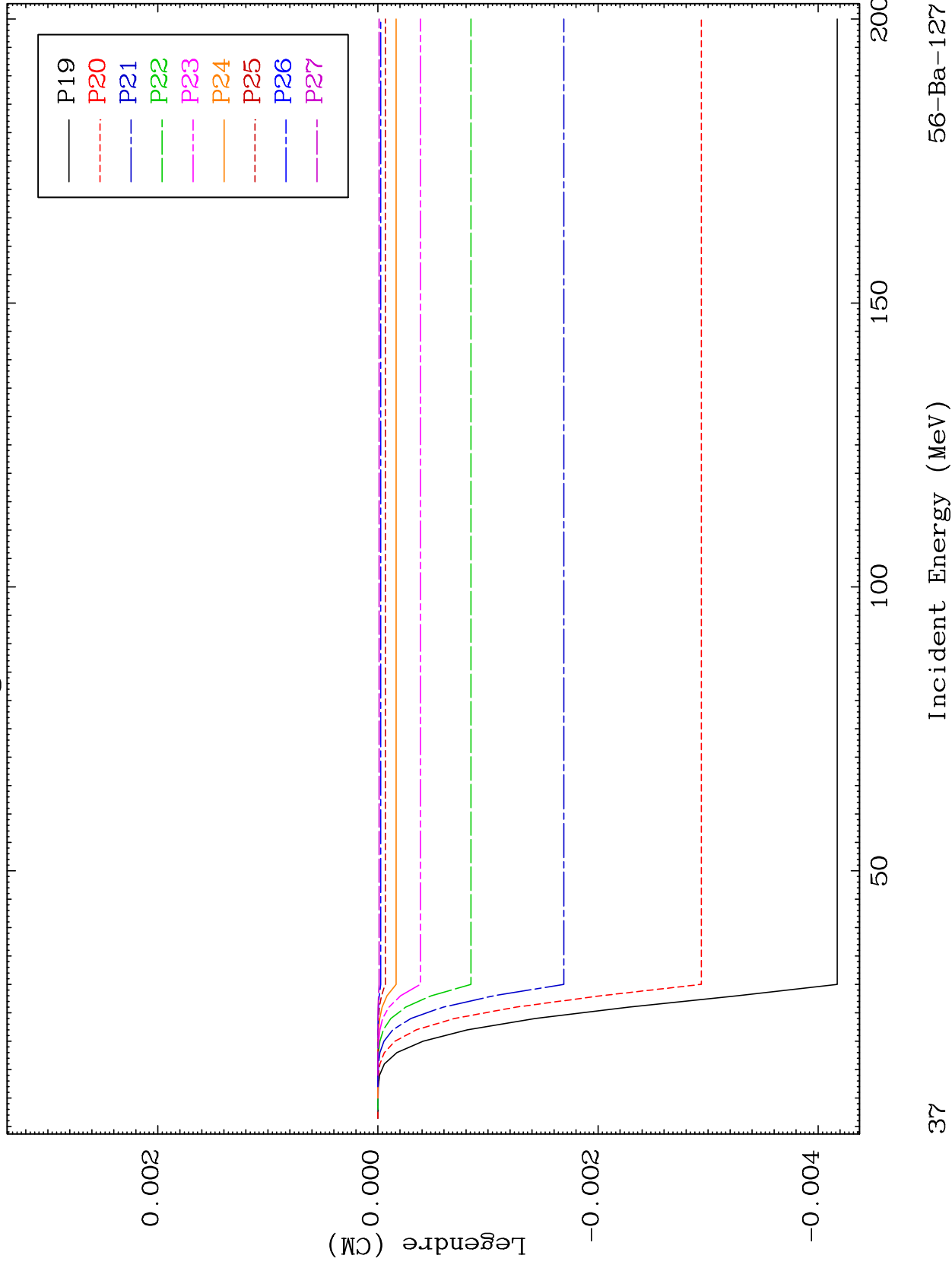
35



MAT 5616

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

56-Ba-127



37

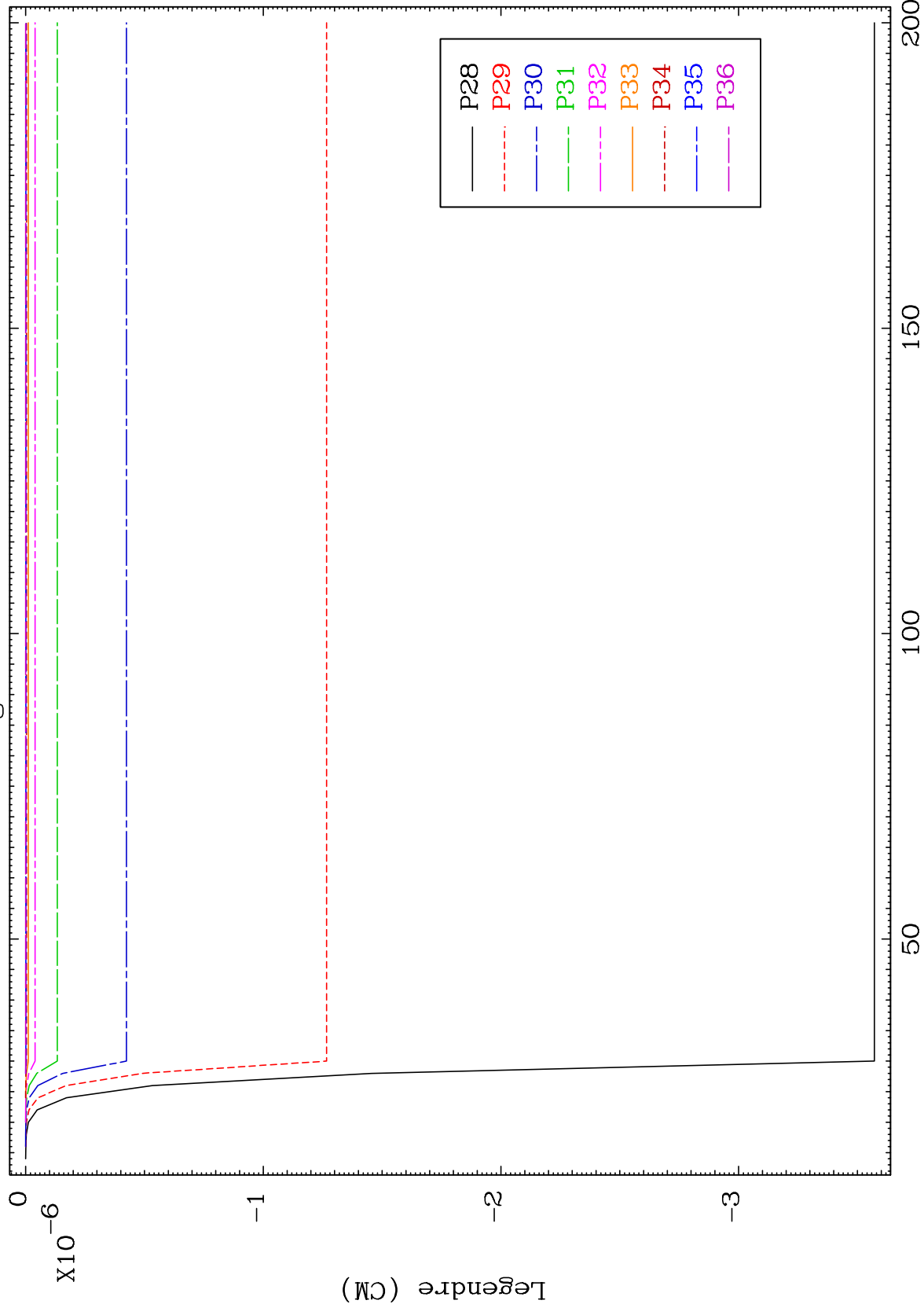
Incident Energy (MeV)

56-Ba-127

MAT 5616

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

56-Ba-127



38

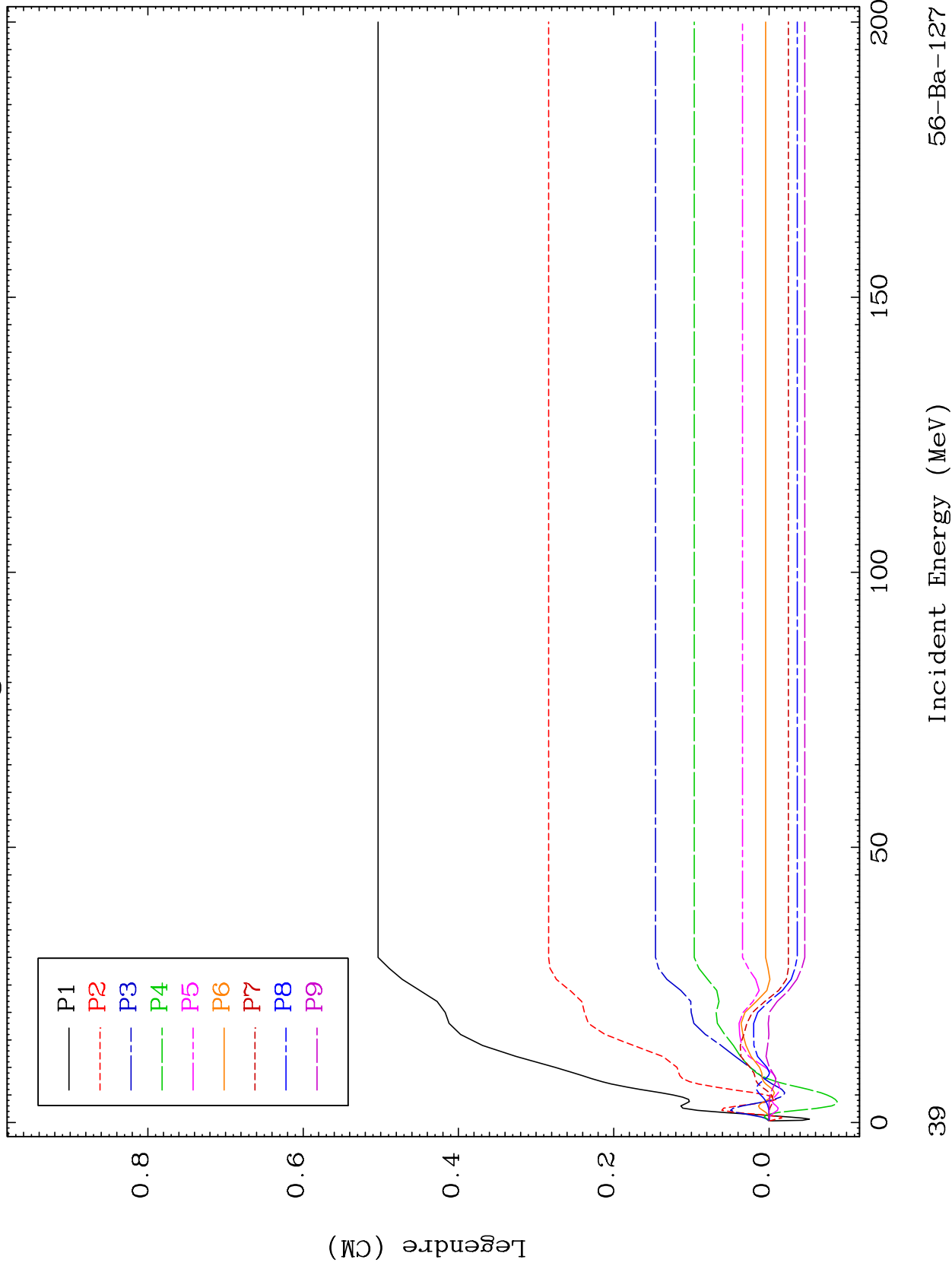
Incident Energy (MeV)

56-Ba-127

MAT 5616

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

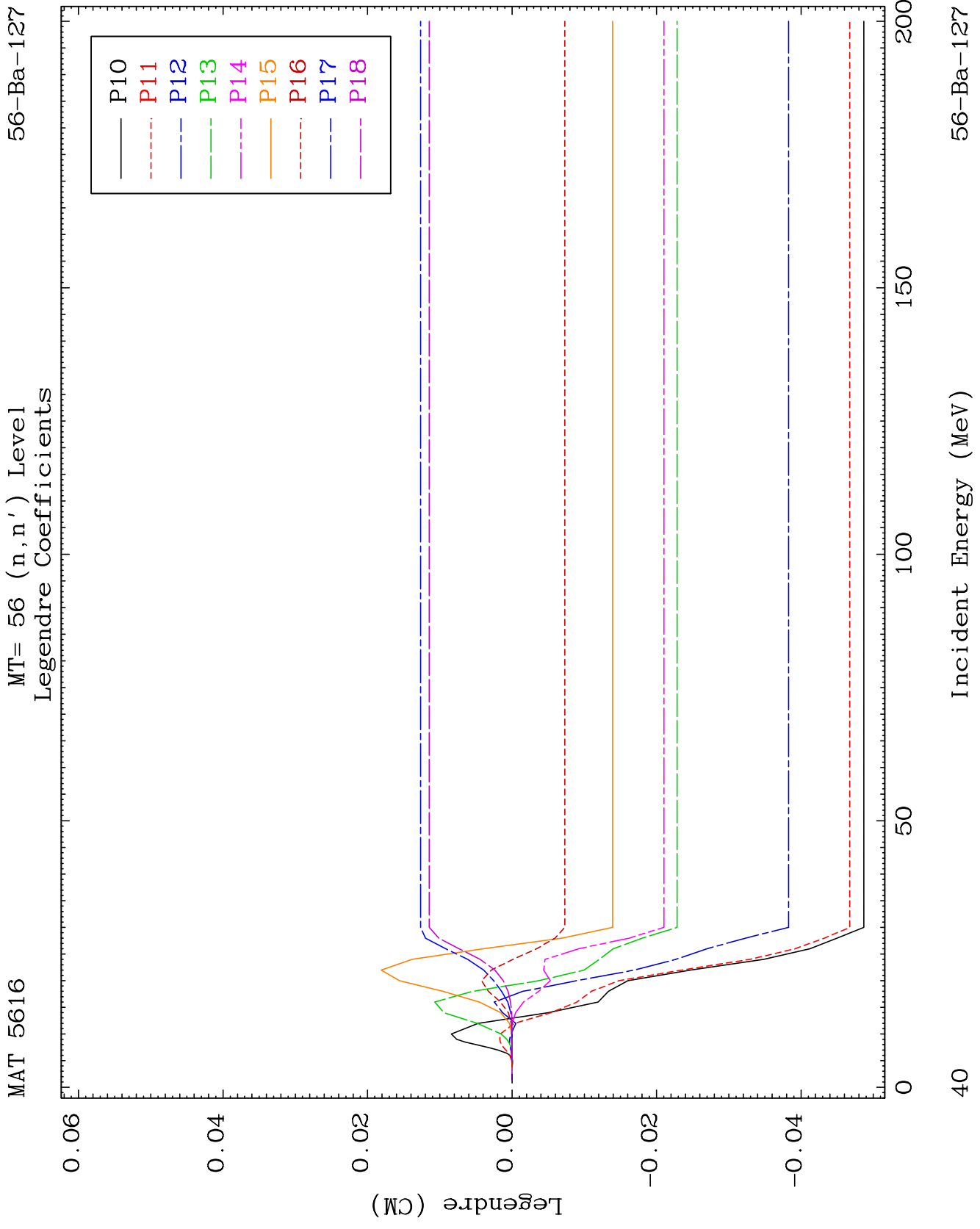
56-Ba-127



39

Incident Energy (MeV)

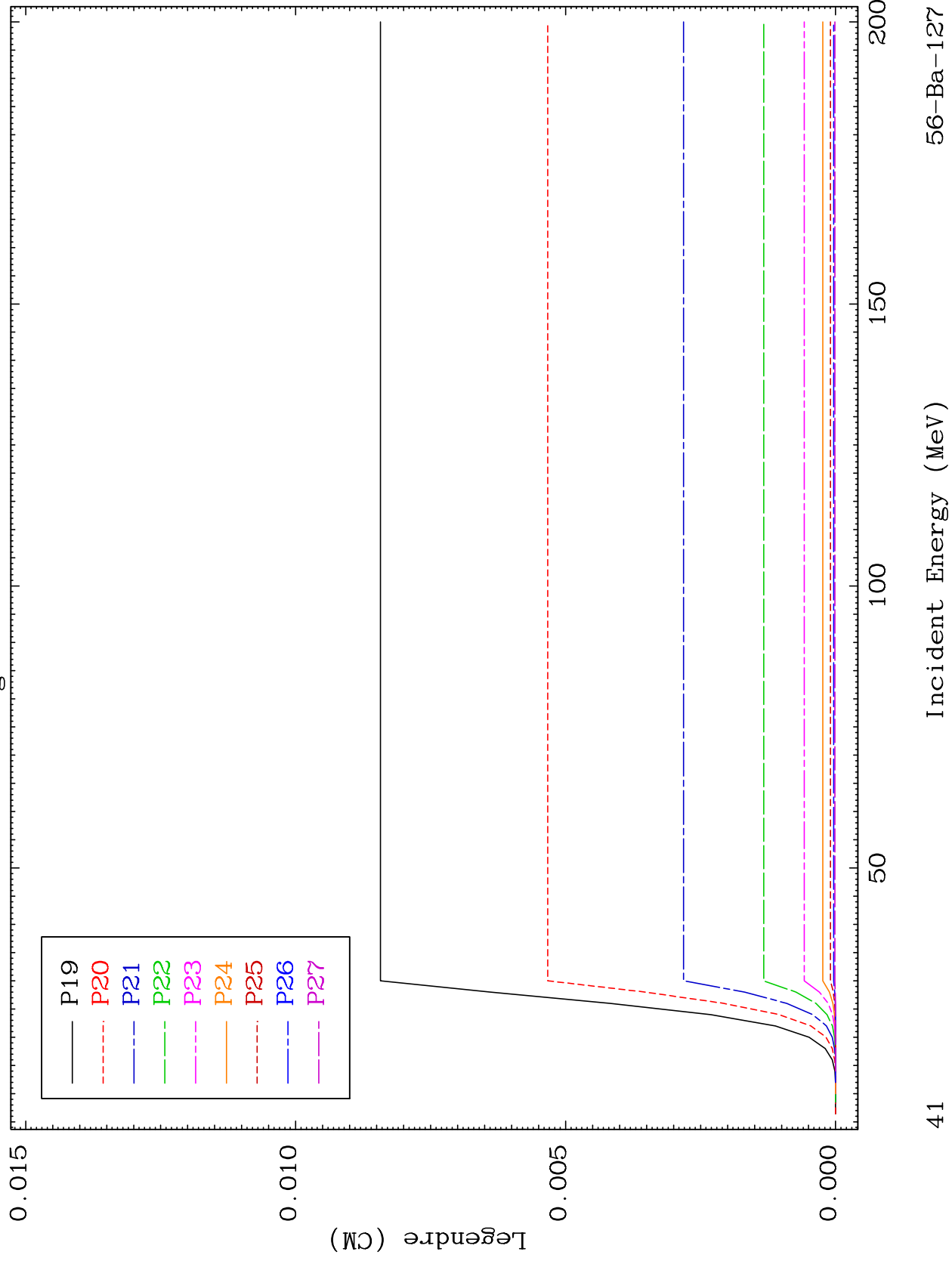
56-Ba-127



MAT 5616

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

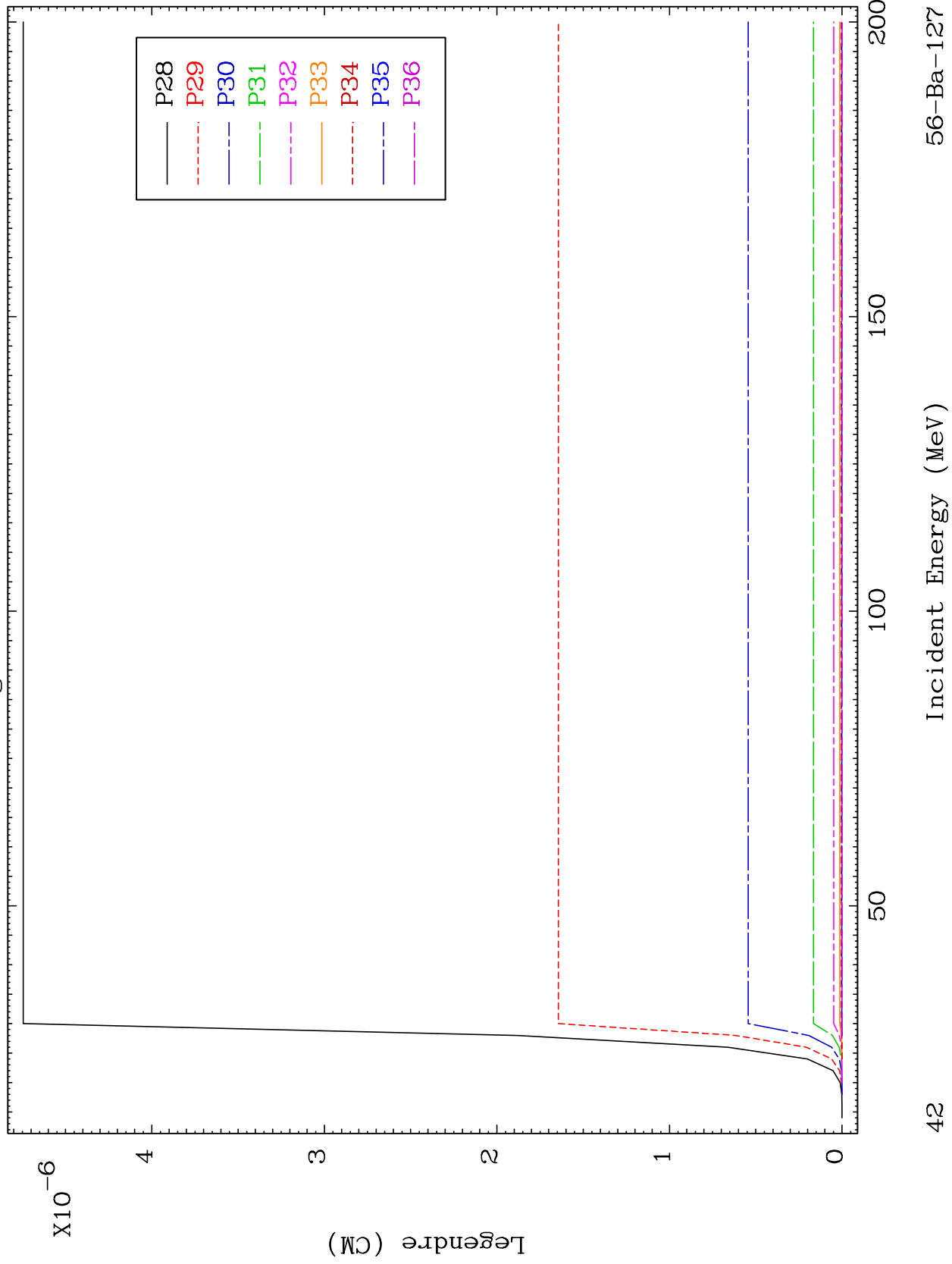
56-Ba-127



MAT 5616

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

56-Ba-127



42

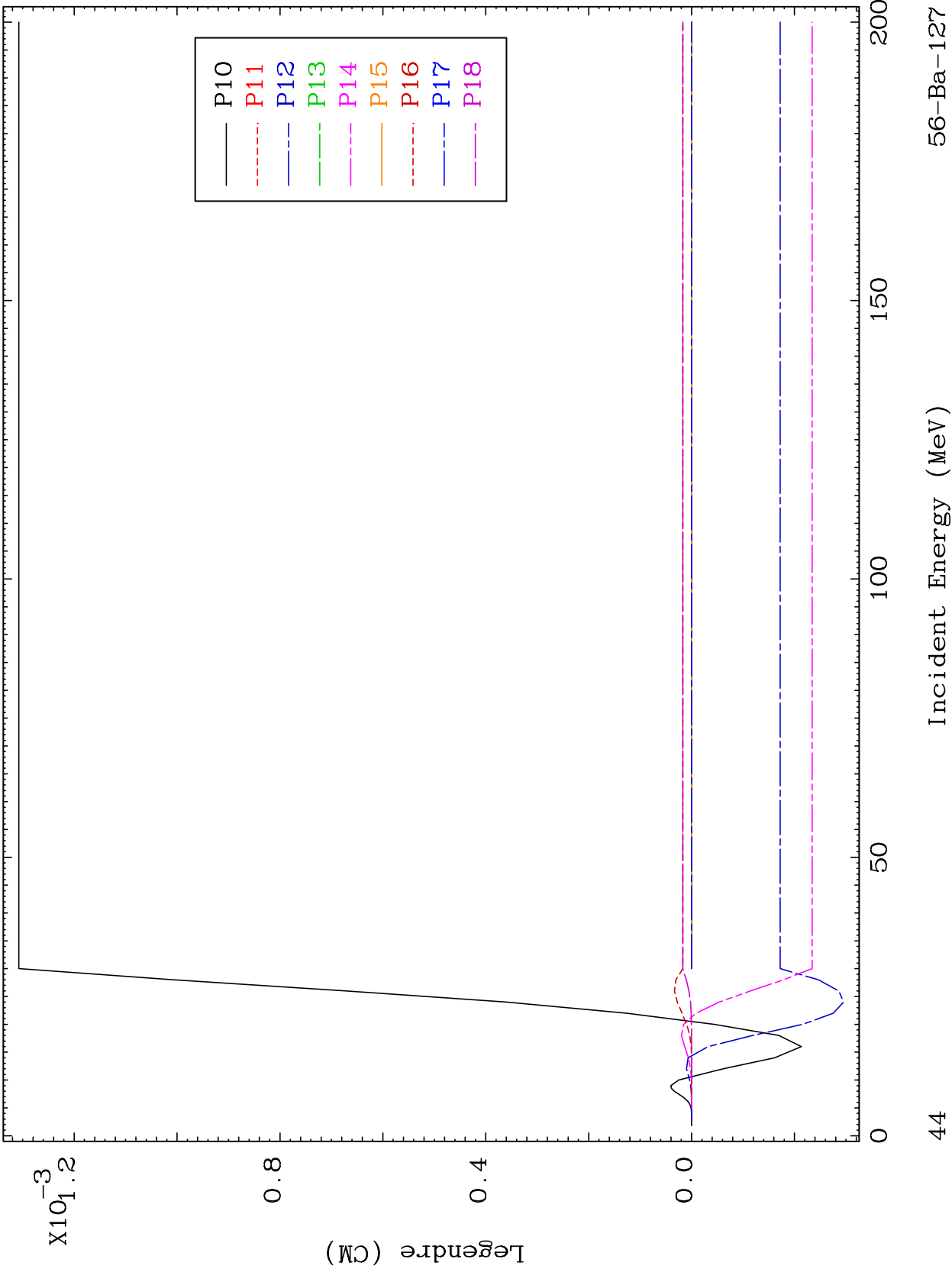
Incident Energy (MeV)

56-Ba-127

MAT 5616

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

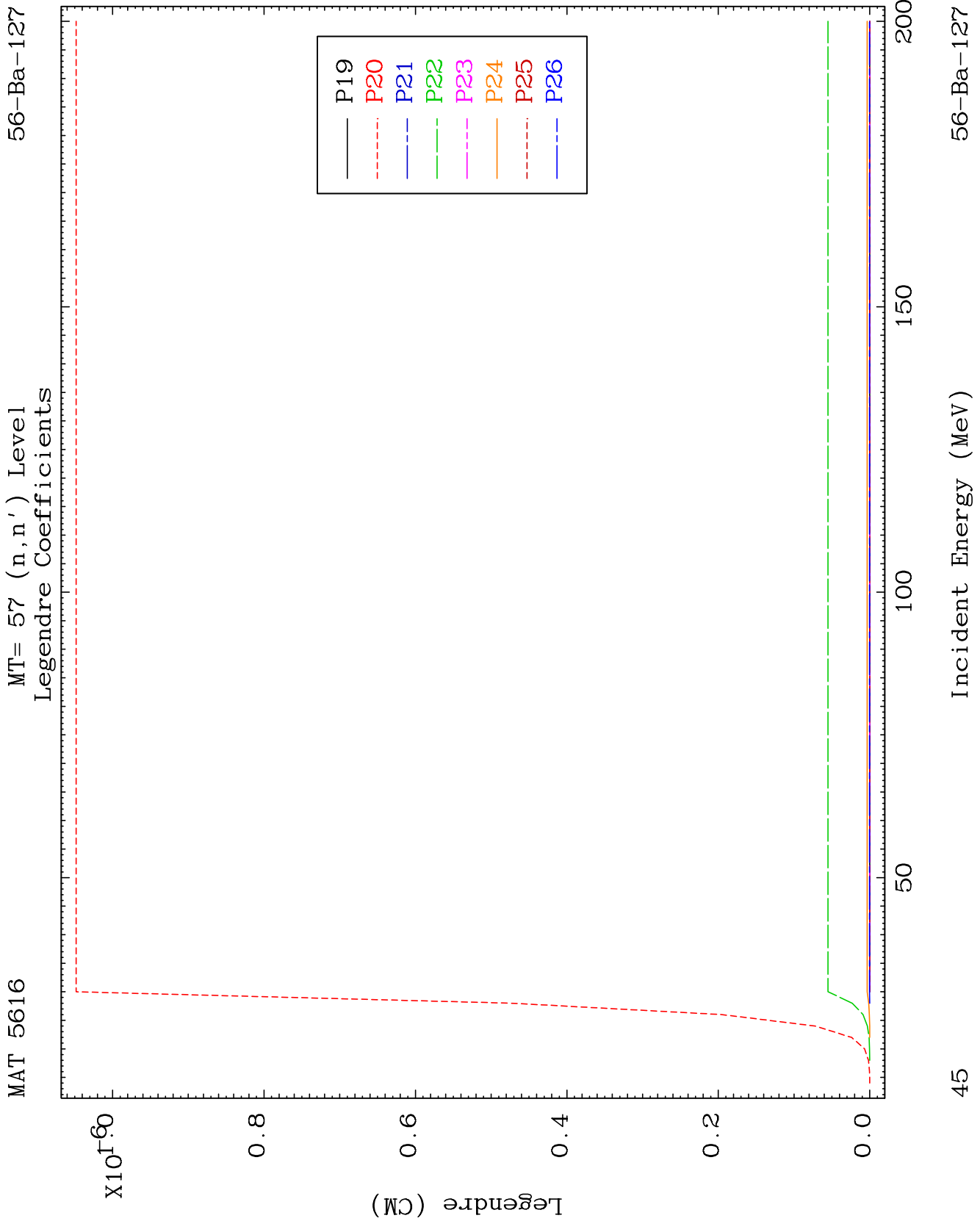
56-Ba-127



44

Incident Energy (MeV)

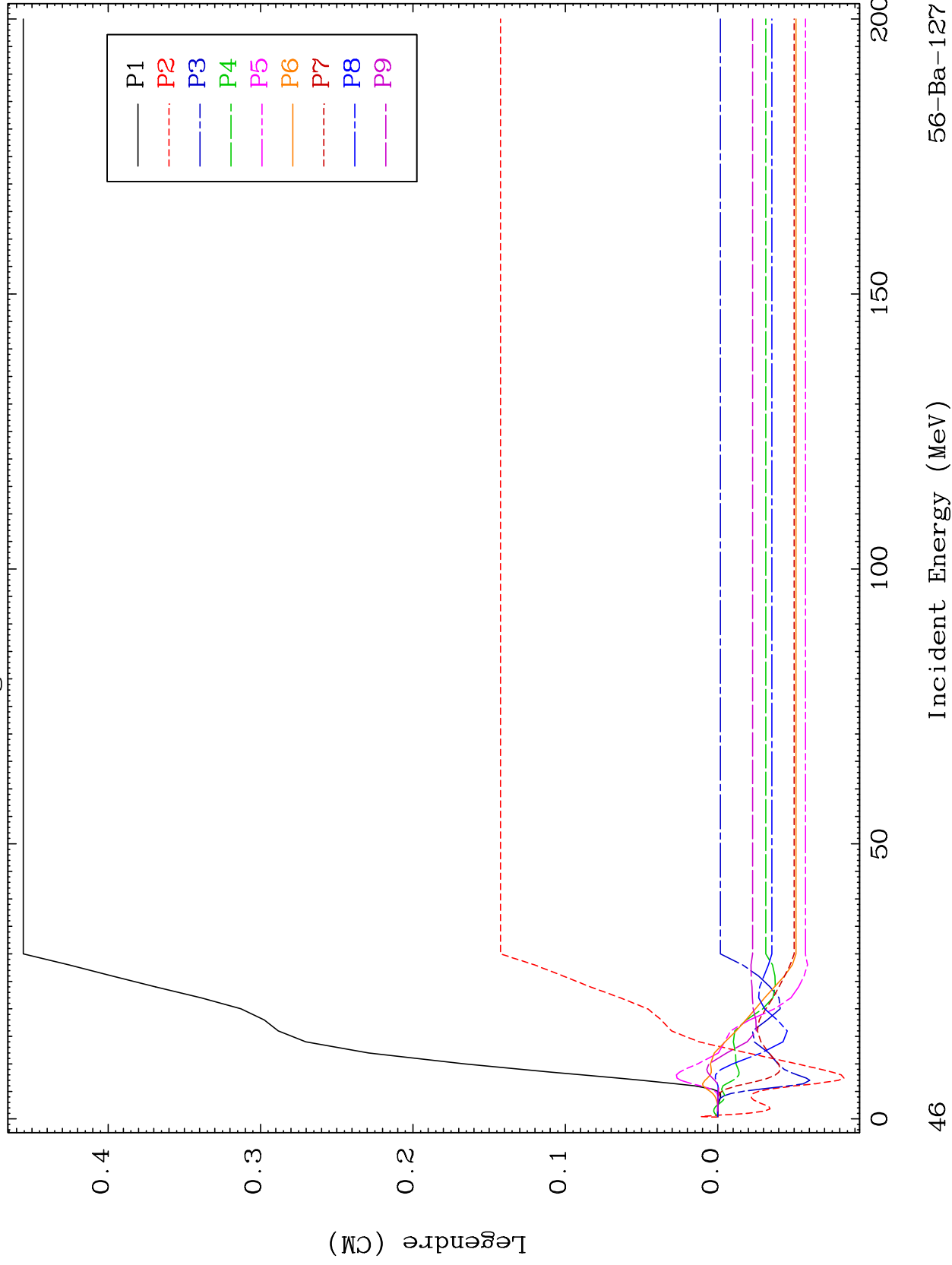
56-Ba-127



MAT 5616

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

56-Ba-127



56-Ba-127

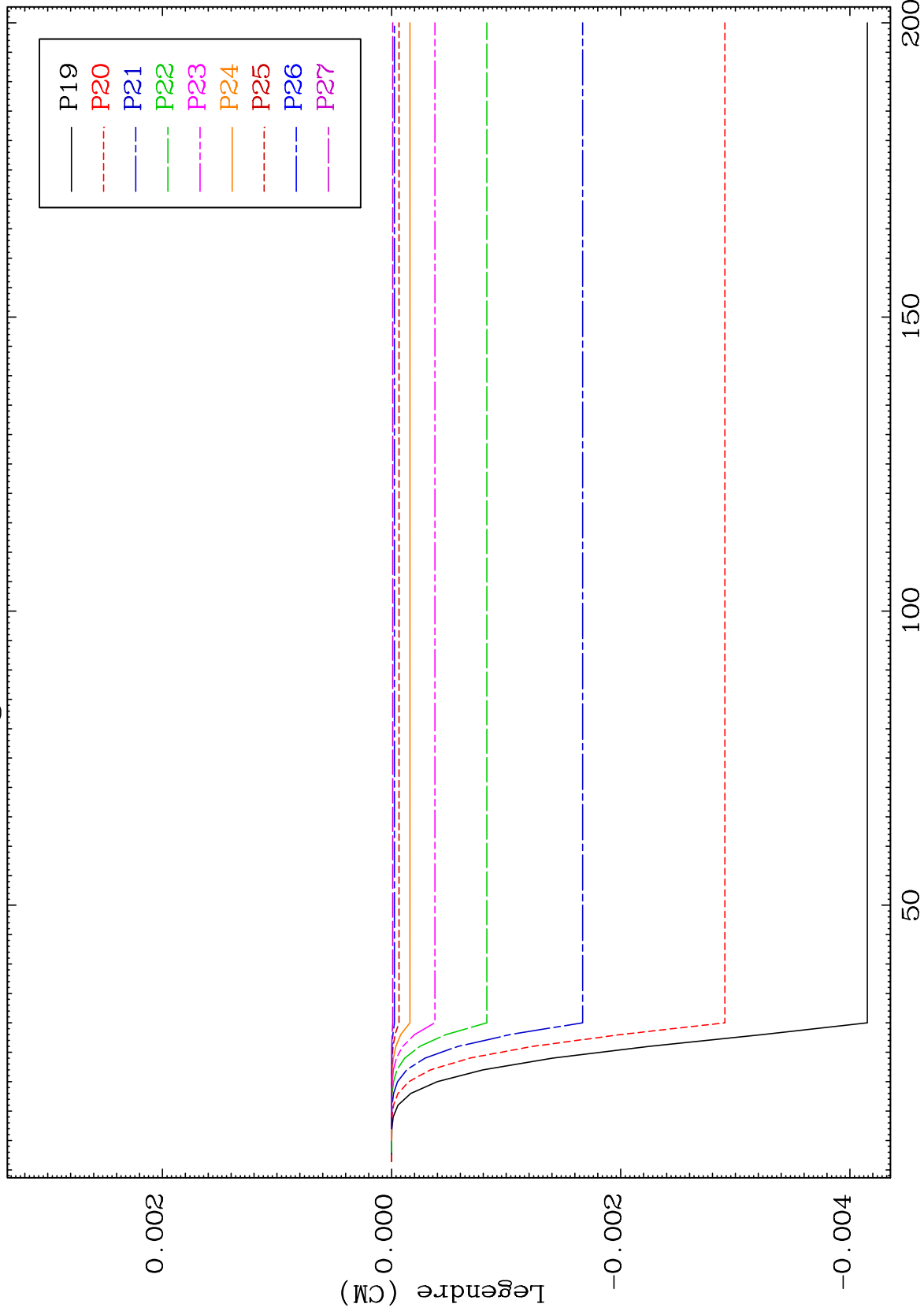
Incident Energy (MeV)

46

MAT 5616

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

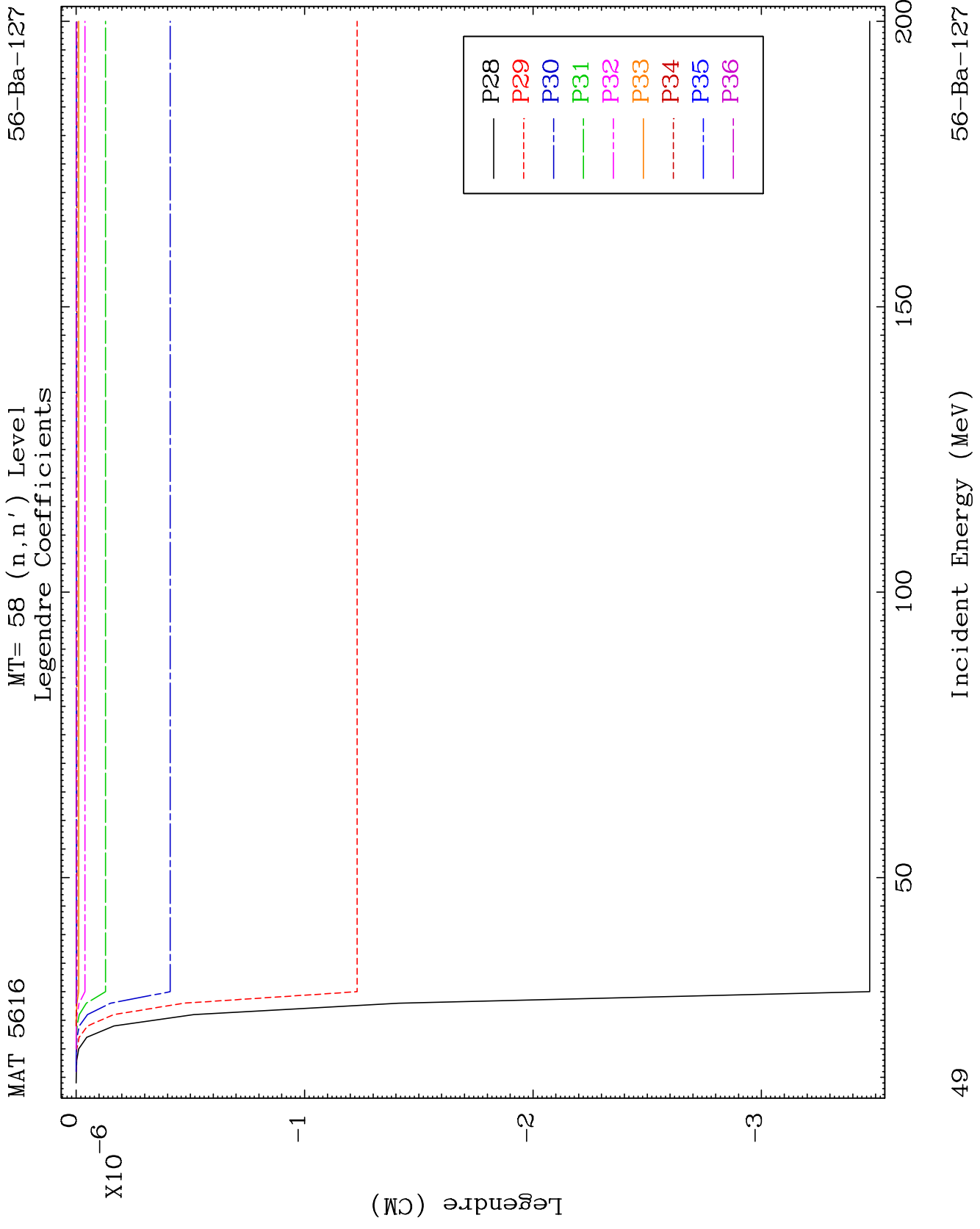
56-Ba-127

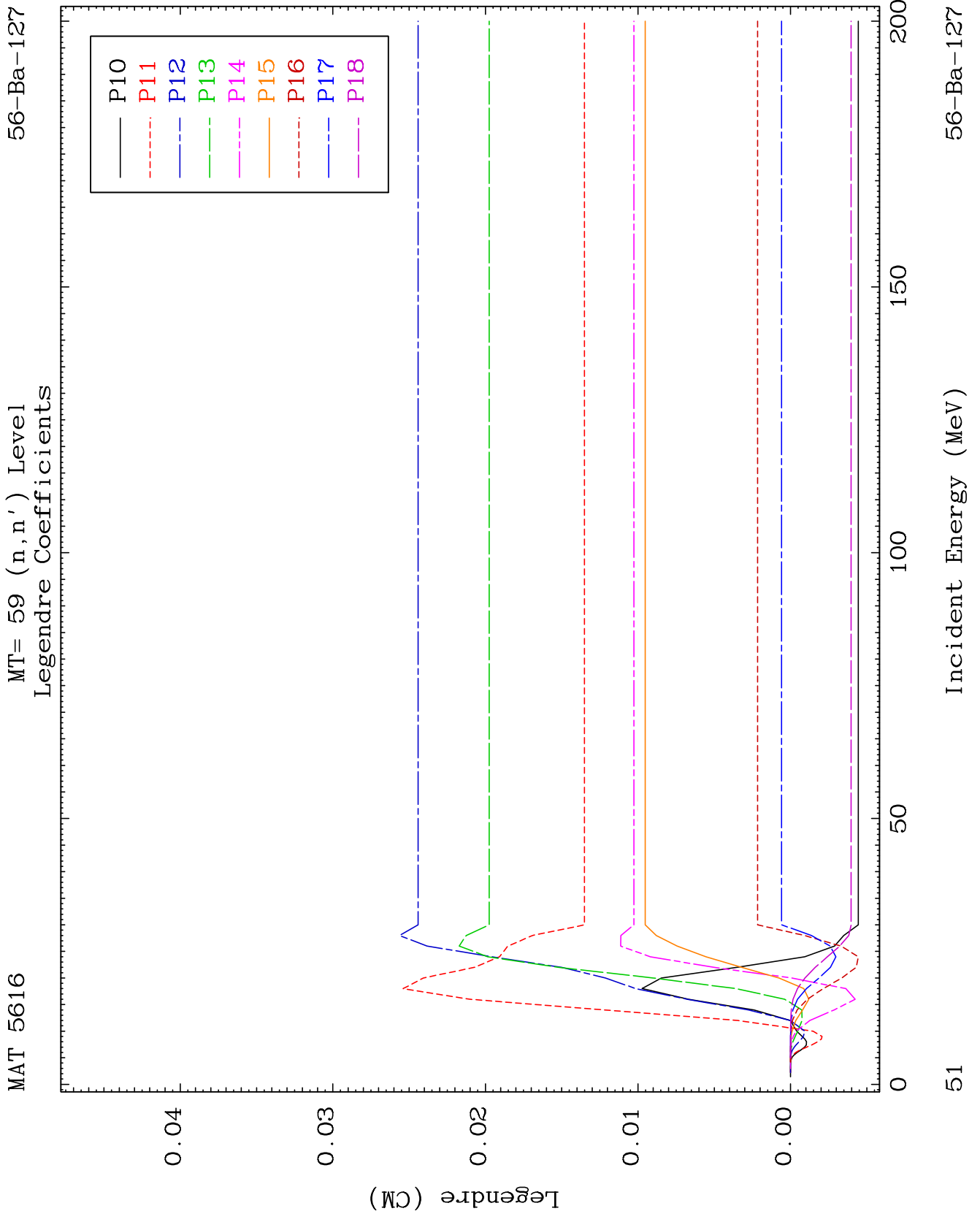


48

Incident Energy (MeV)

56-Ba-127

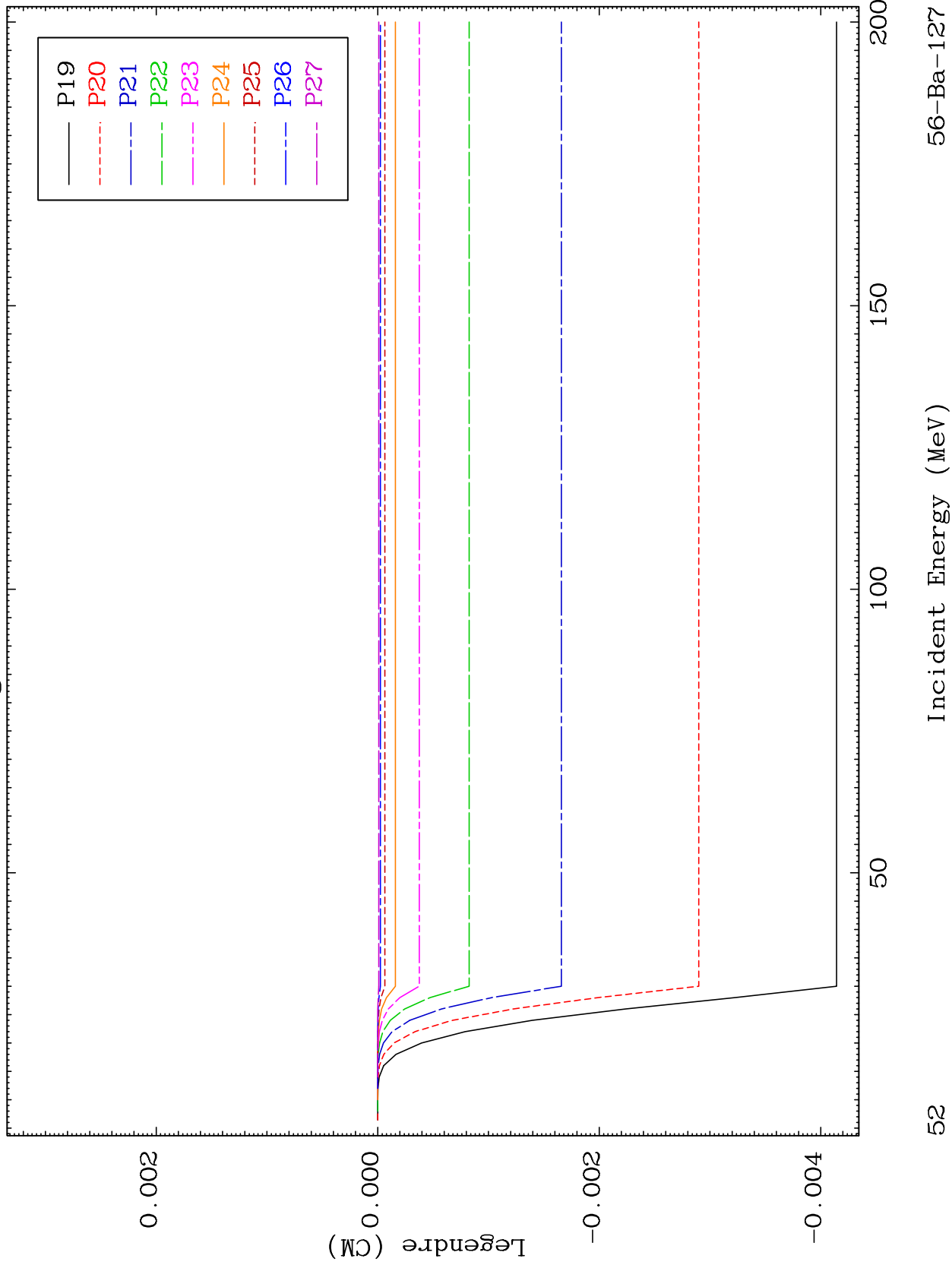




MAT 5616

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

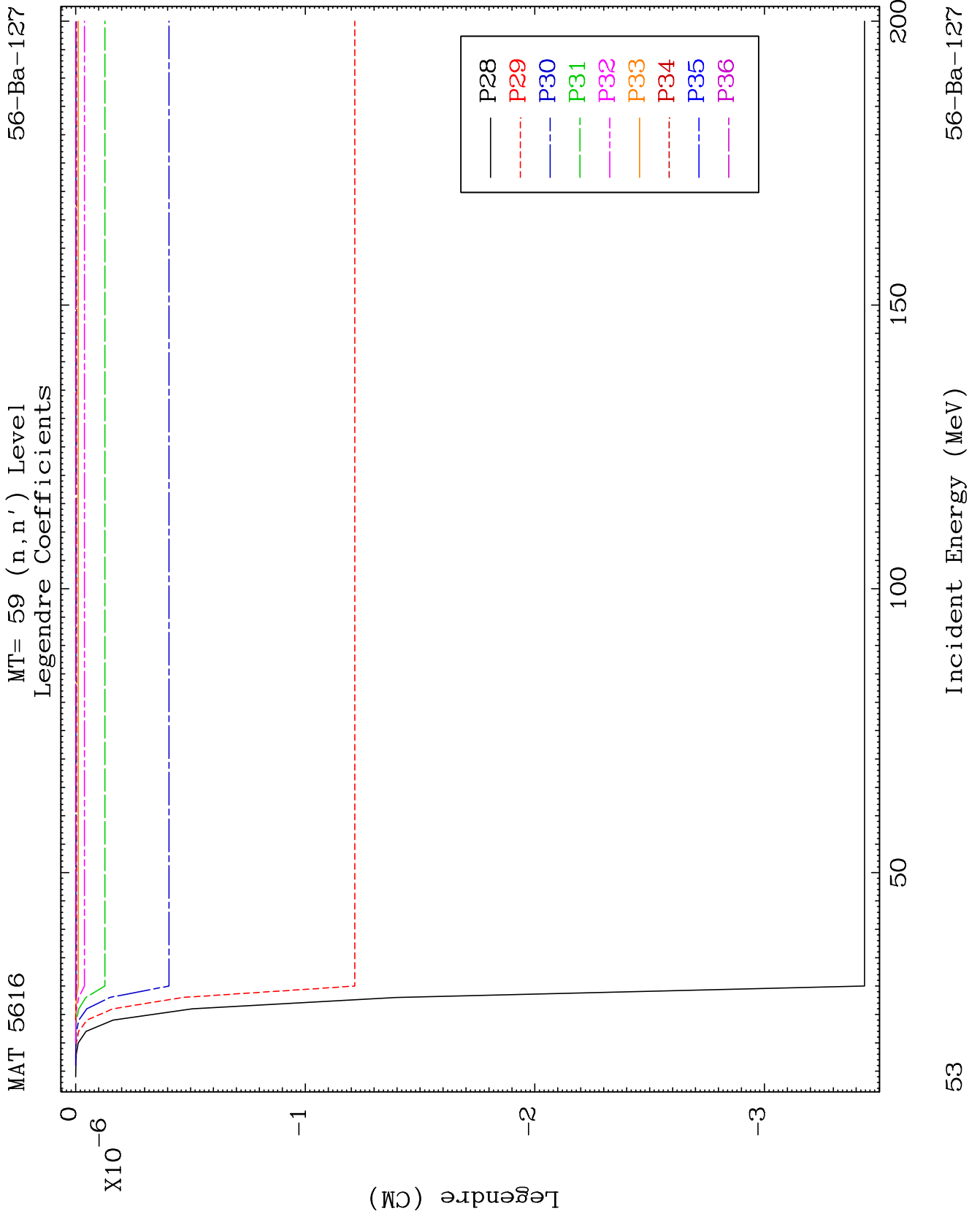
56-Ba-127



52

Incident Energy (MeV)

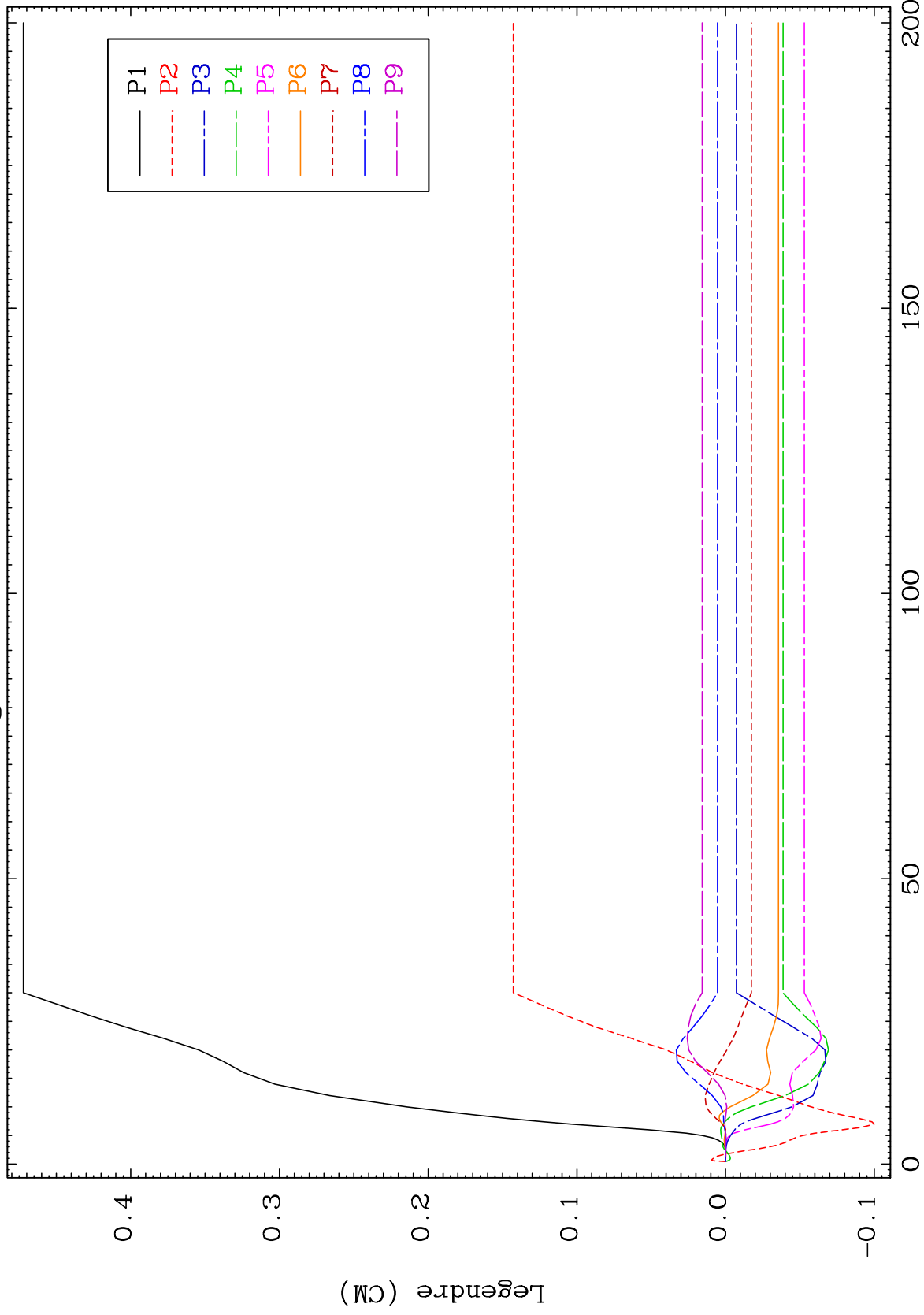
56-Ba-127



MAT 5616

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

56-Ba-127



56-Ba-127

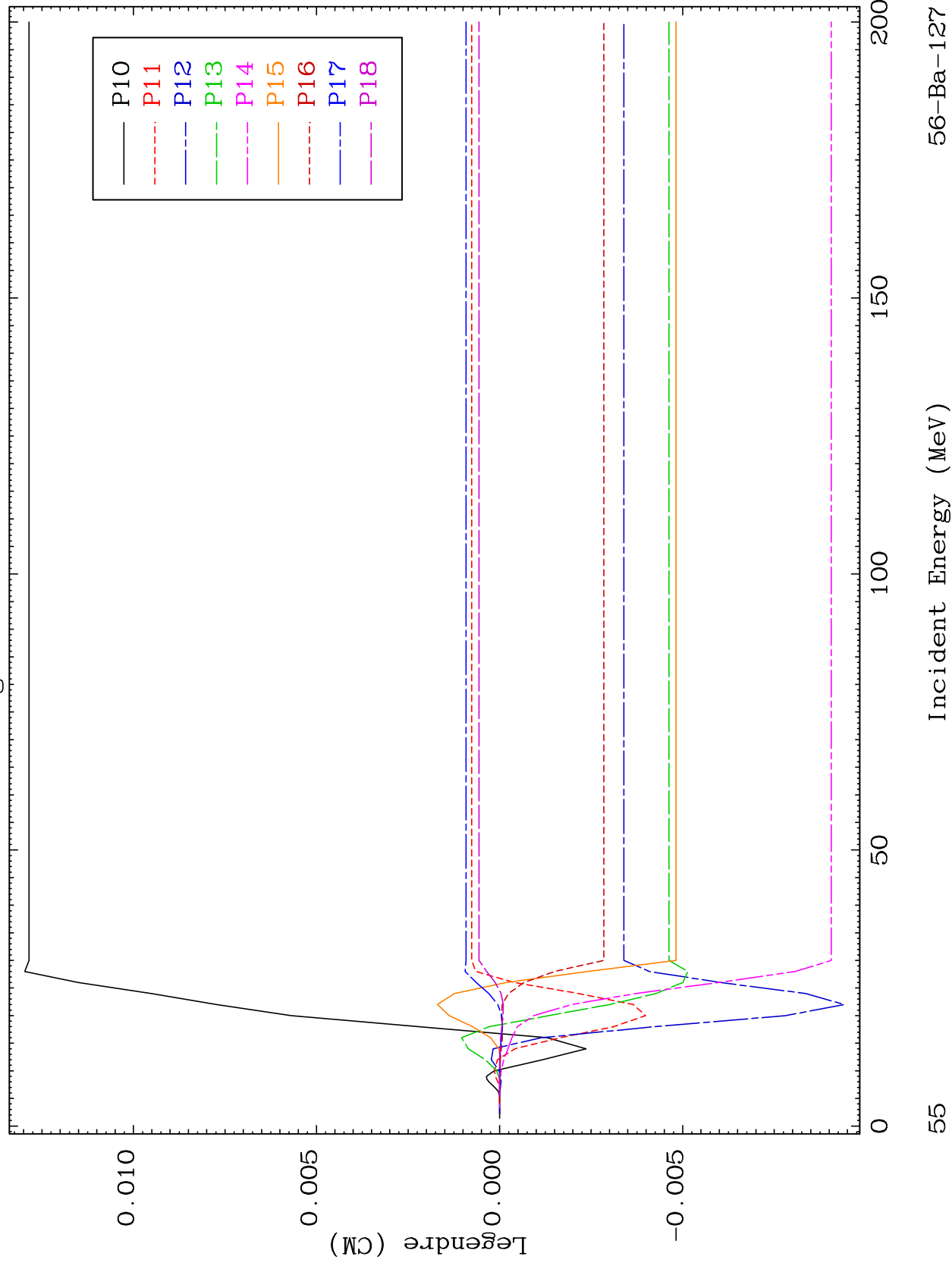
Incident Energy (MeV)

54

MAT 5616

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

56-Ba-127



56-Ba-127

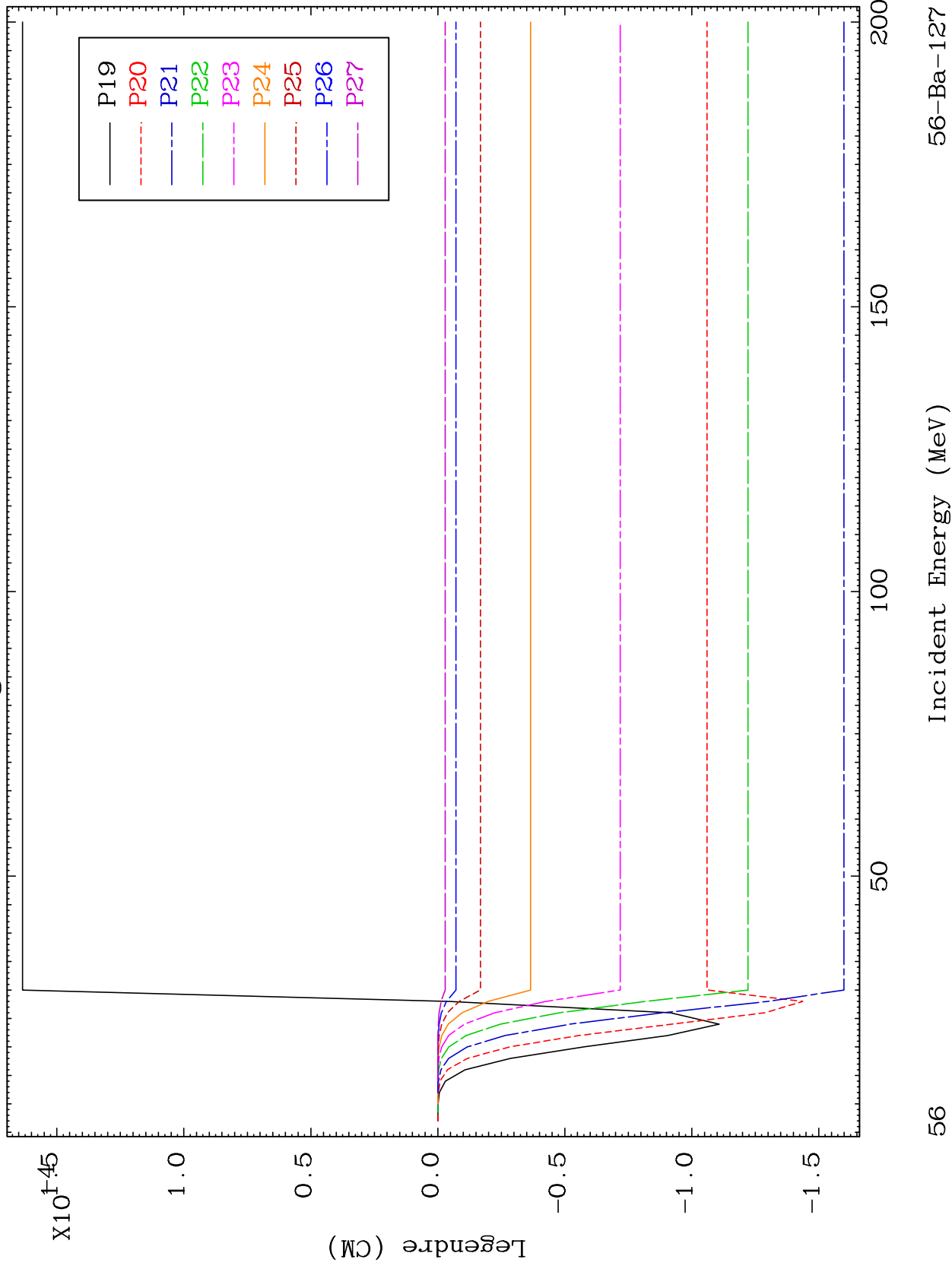
Incident Energy (MeV)

55

MAT 5616

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

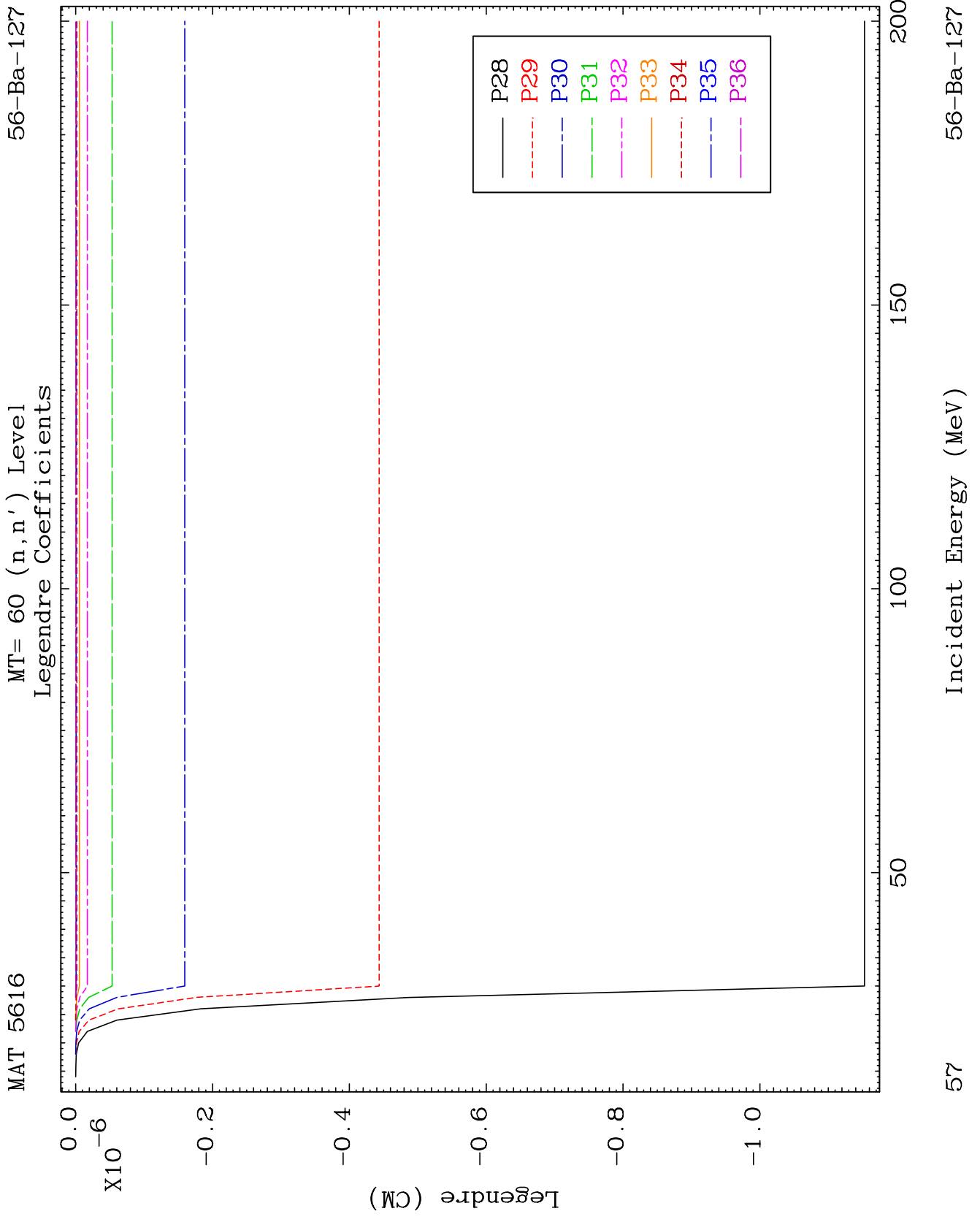
56-Ba-127



56

Incident Energy (MeV)

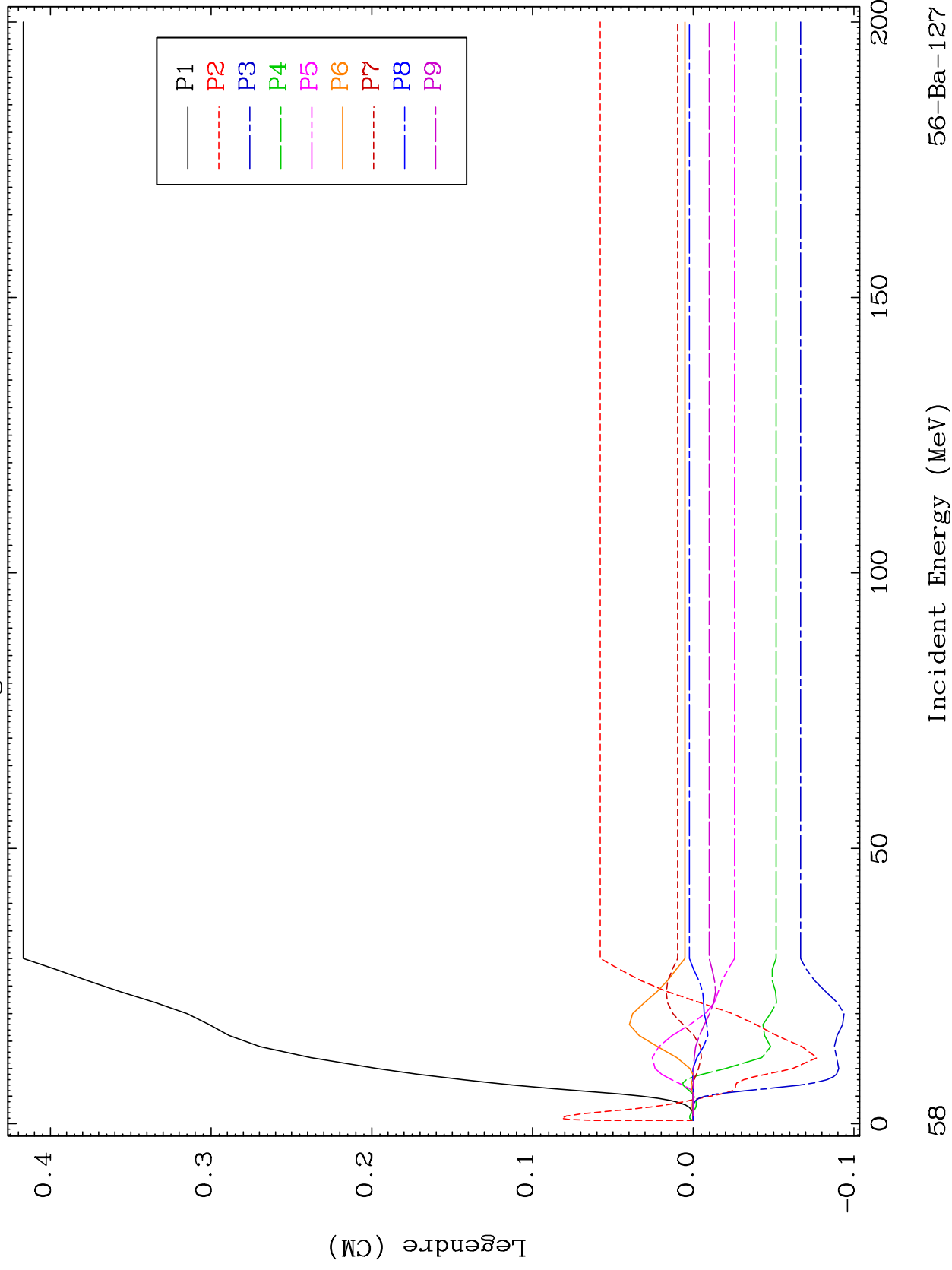
56-Ba-127



MAT 5616

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

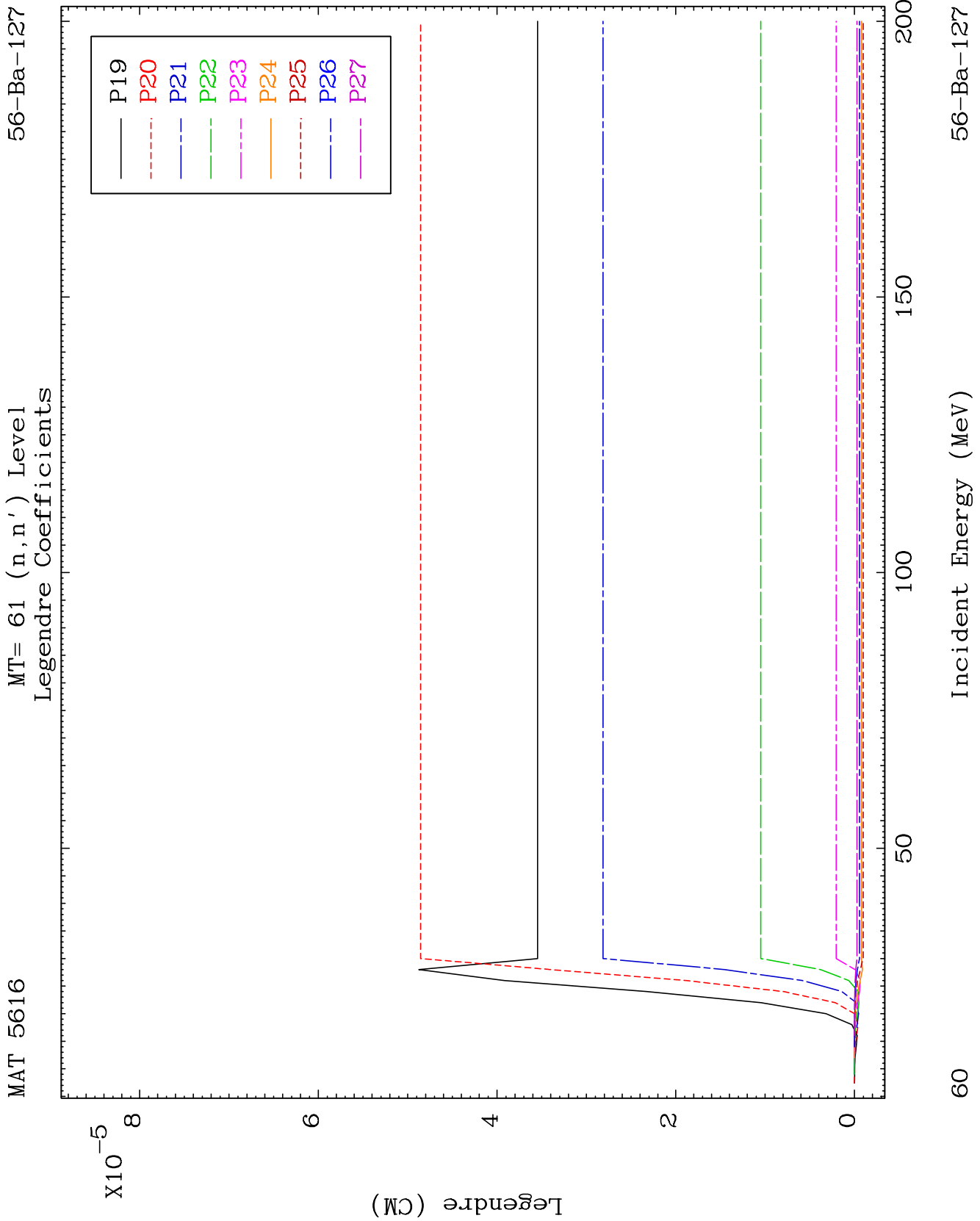
56-Ba-127

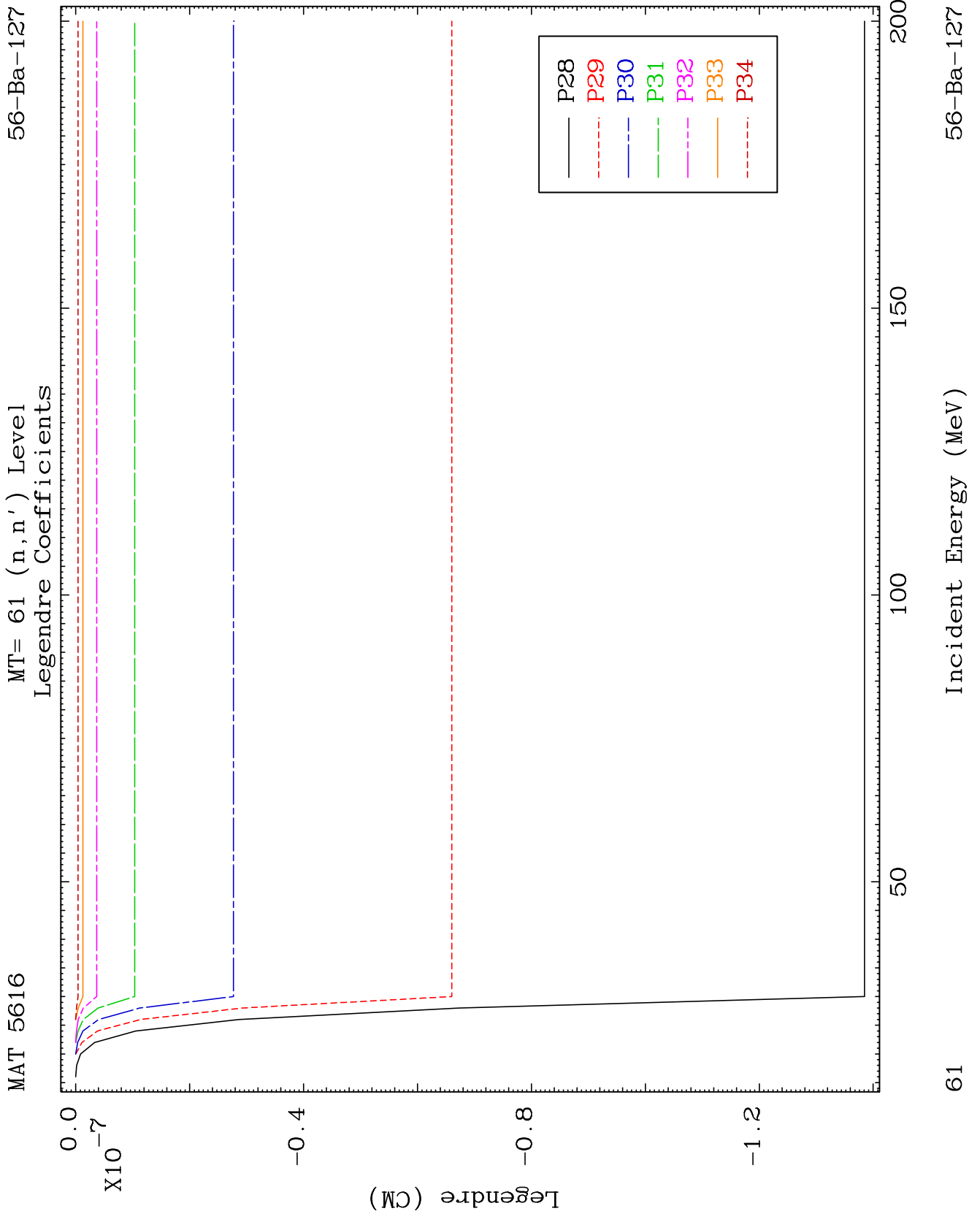


56-Ba-127

Incident Energy (MeV)

58

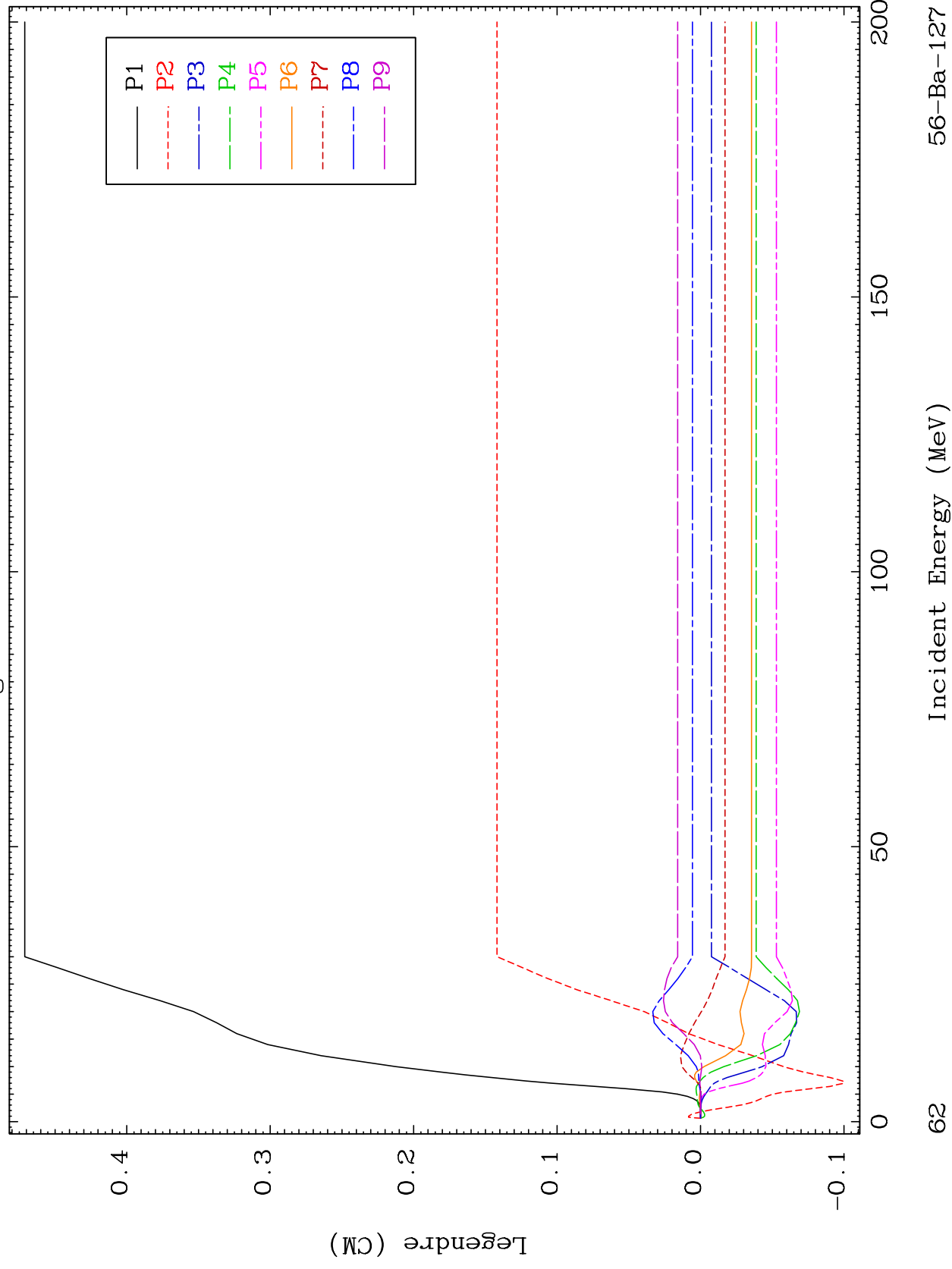




MAT 5616

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

56-Ba-127



56-Ba-127

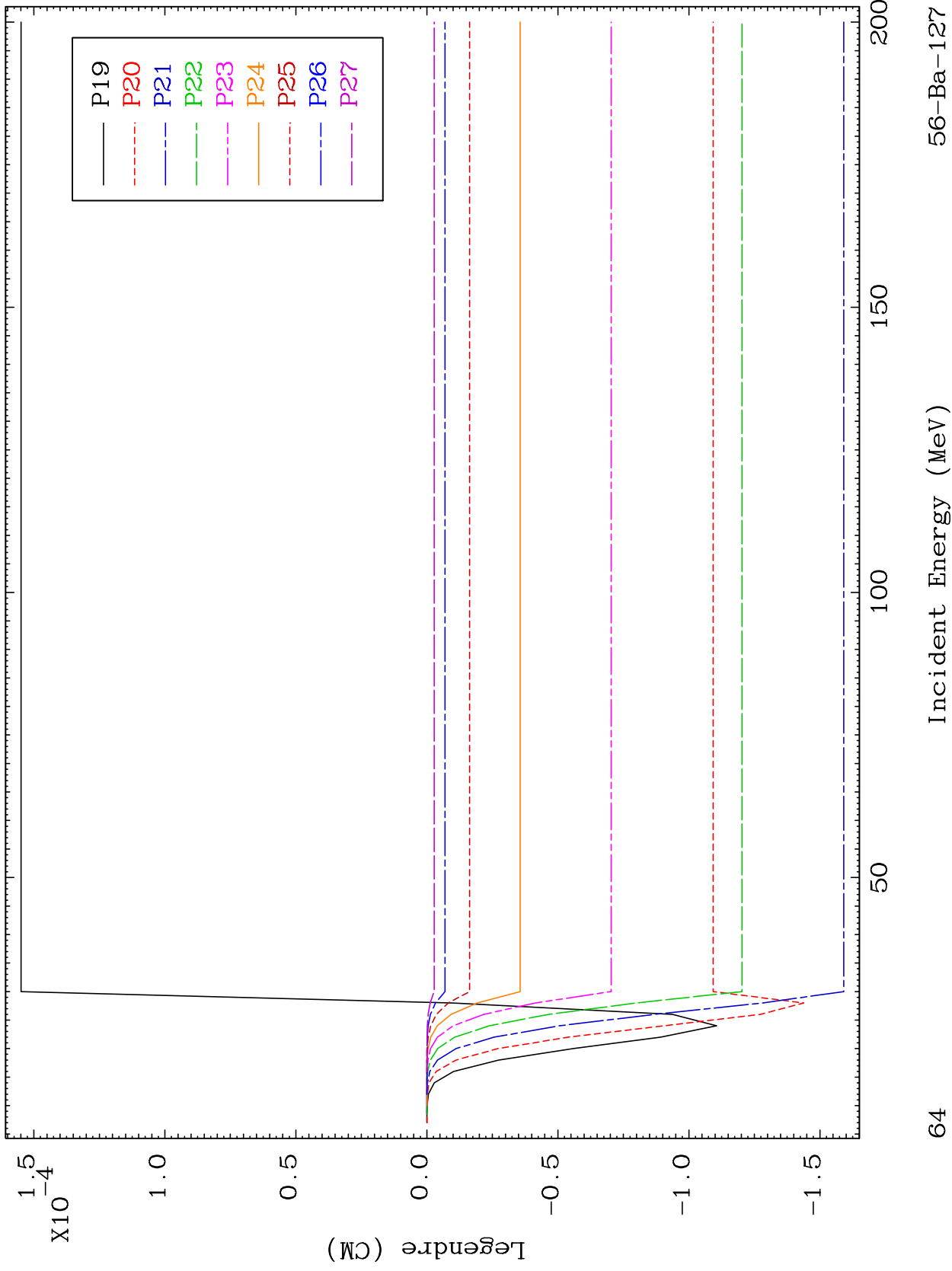
Incident Energy (MeV)

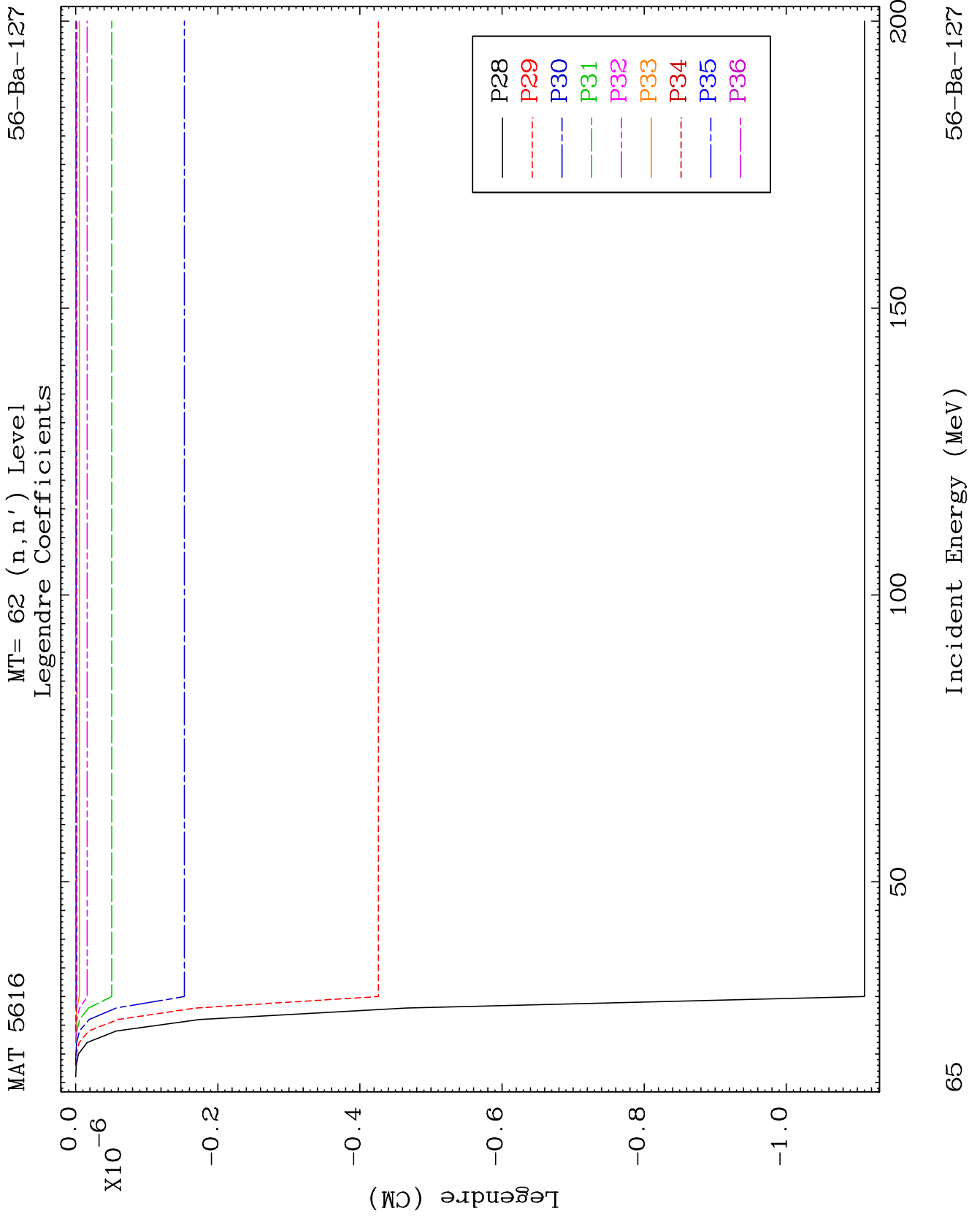
62

MAT 5616

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

56-Ba-127

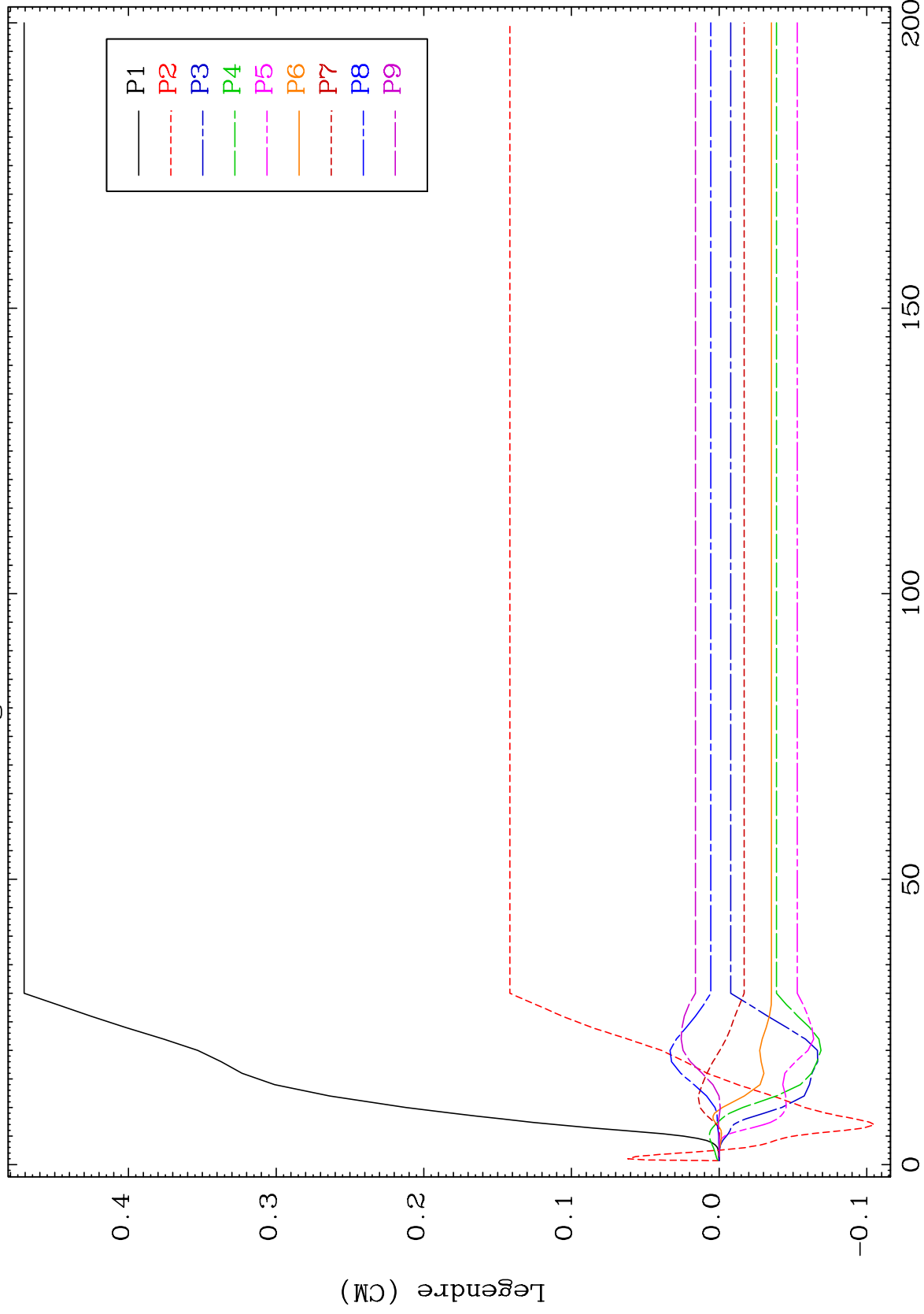




MAT 5616

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

56-Ba-127



66

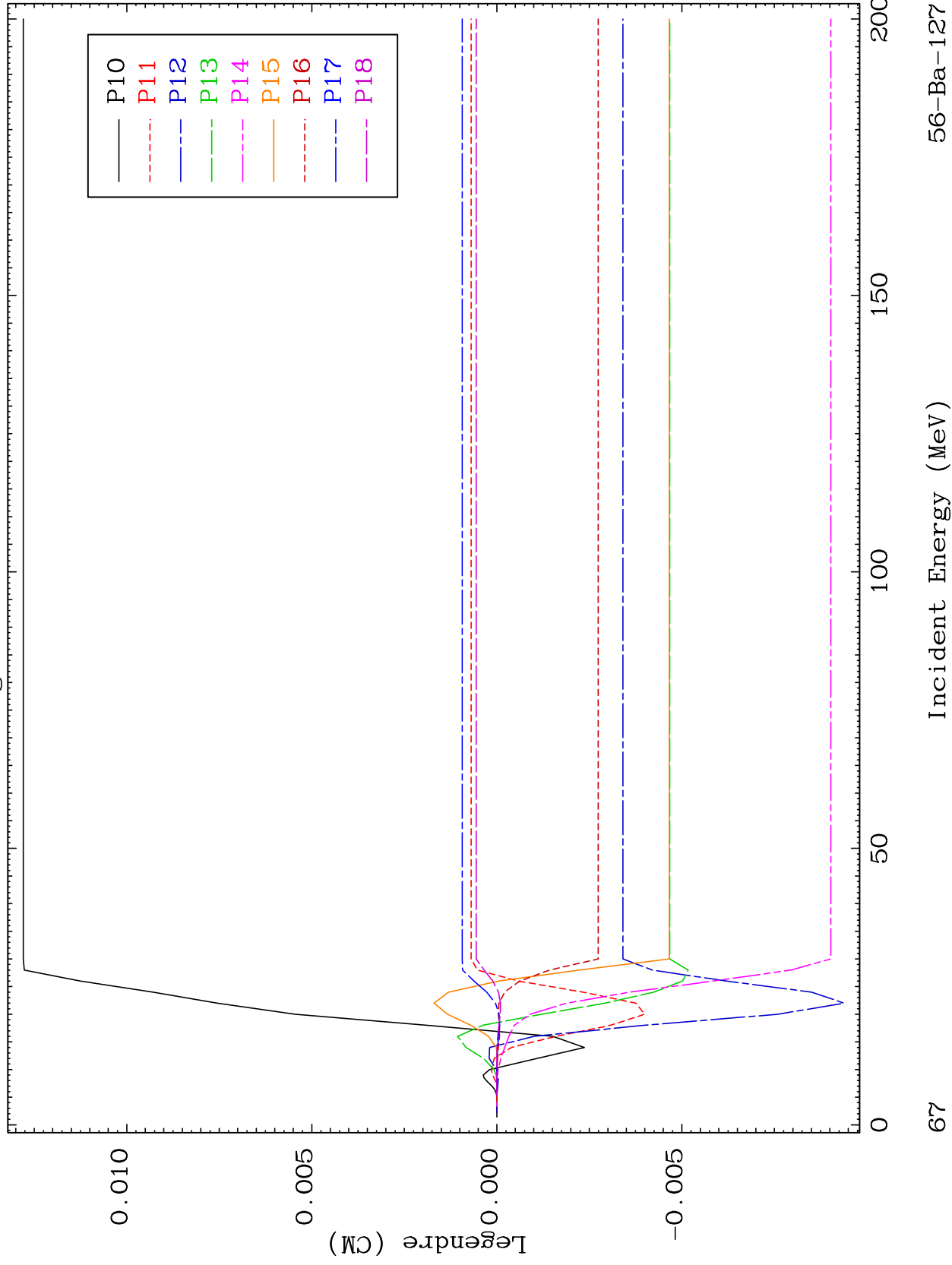
Incident Energy (MeV)

56-Ba-127

MAT 5616

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

56-Ba-127



67

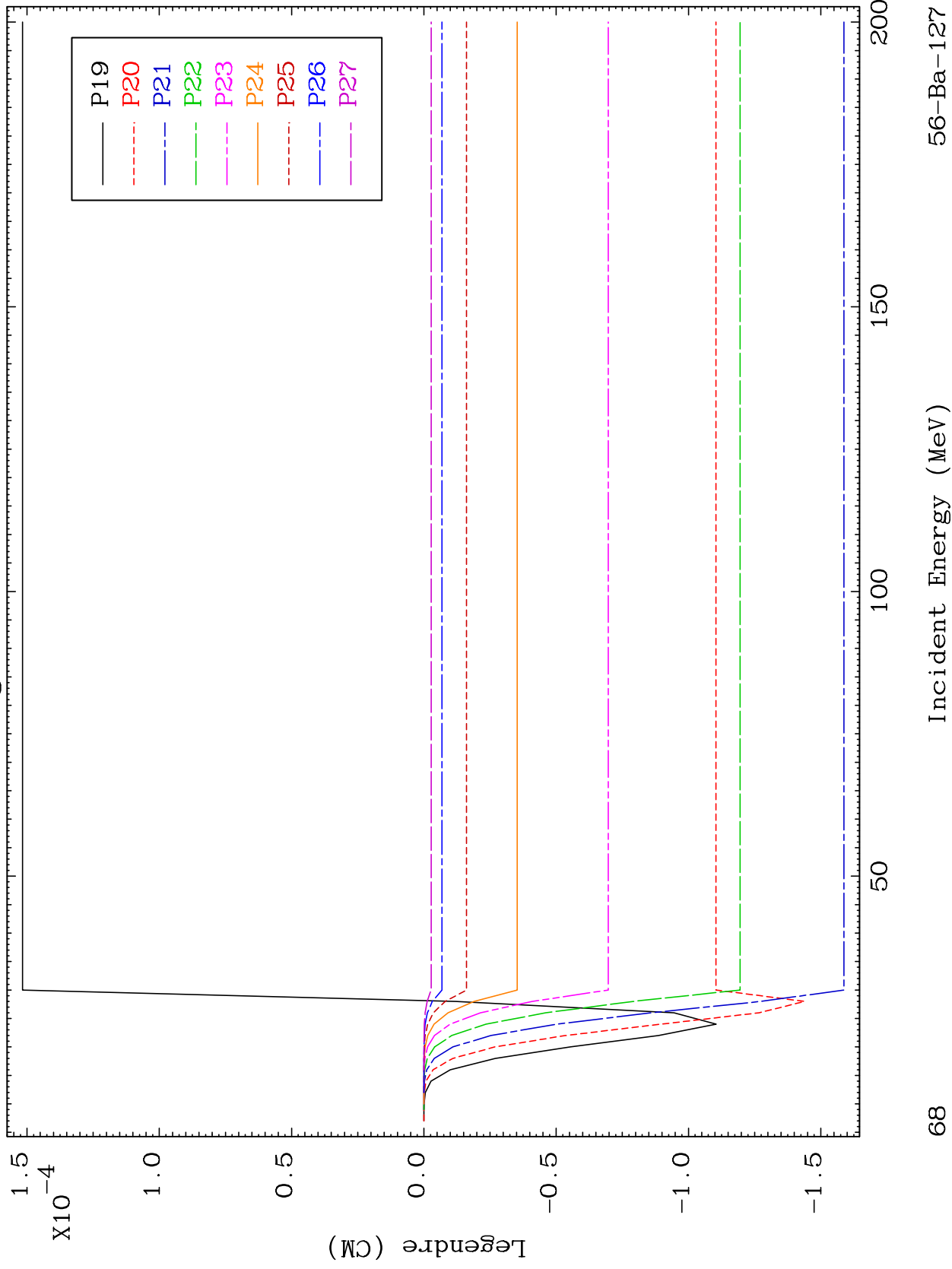
Incident Energy (MeV)

56-Ba-127

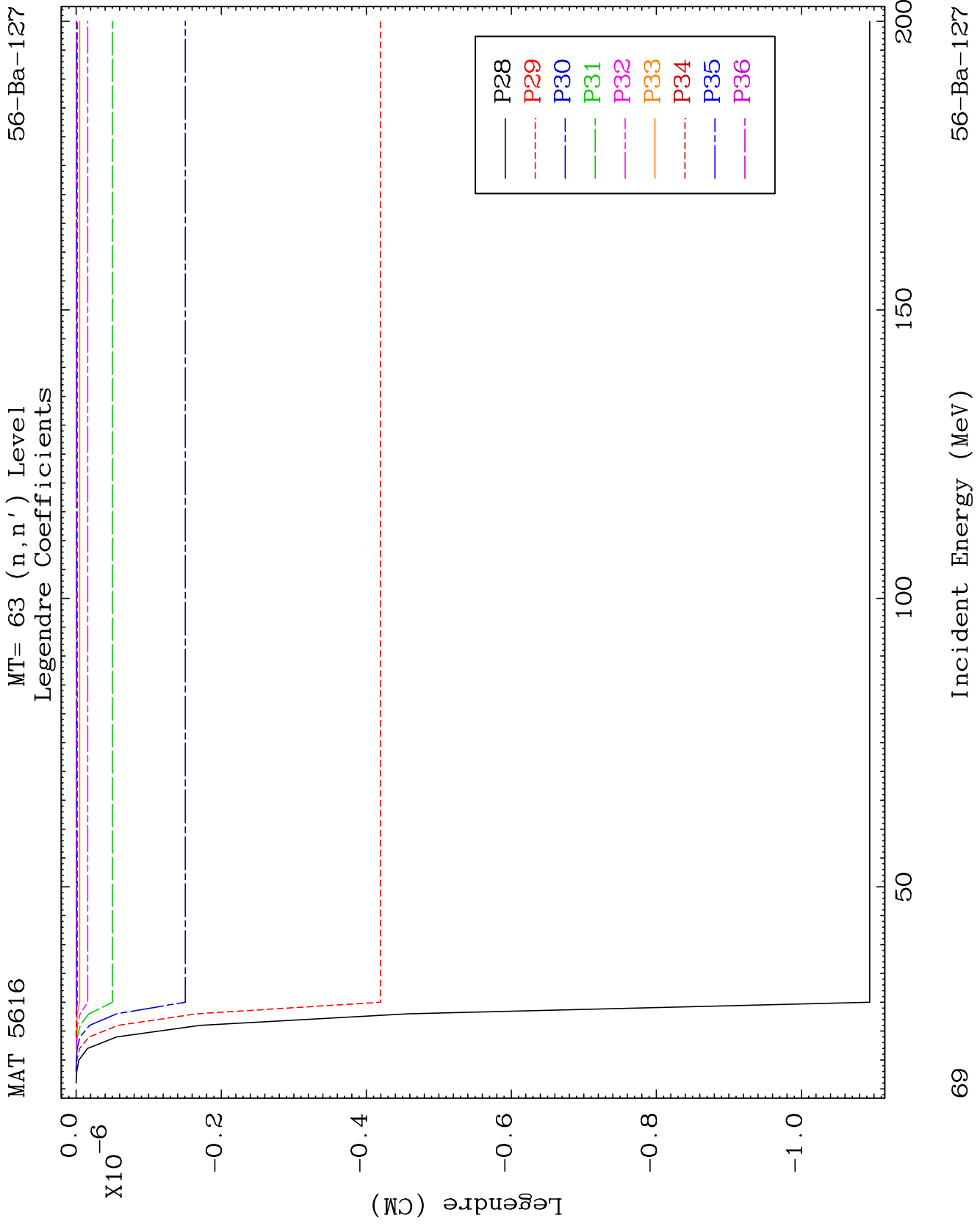
MAT 5616

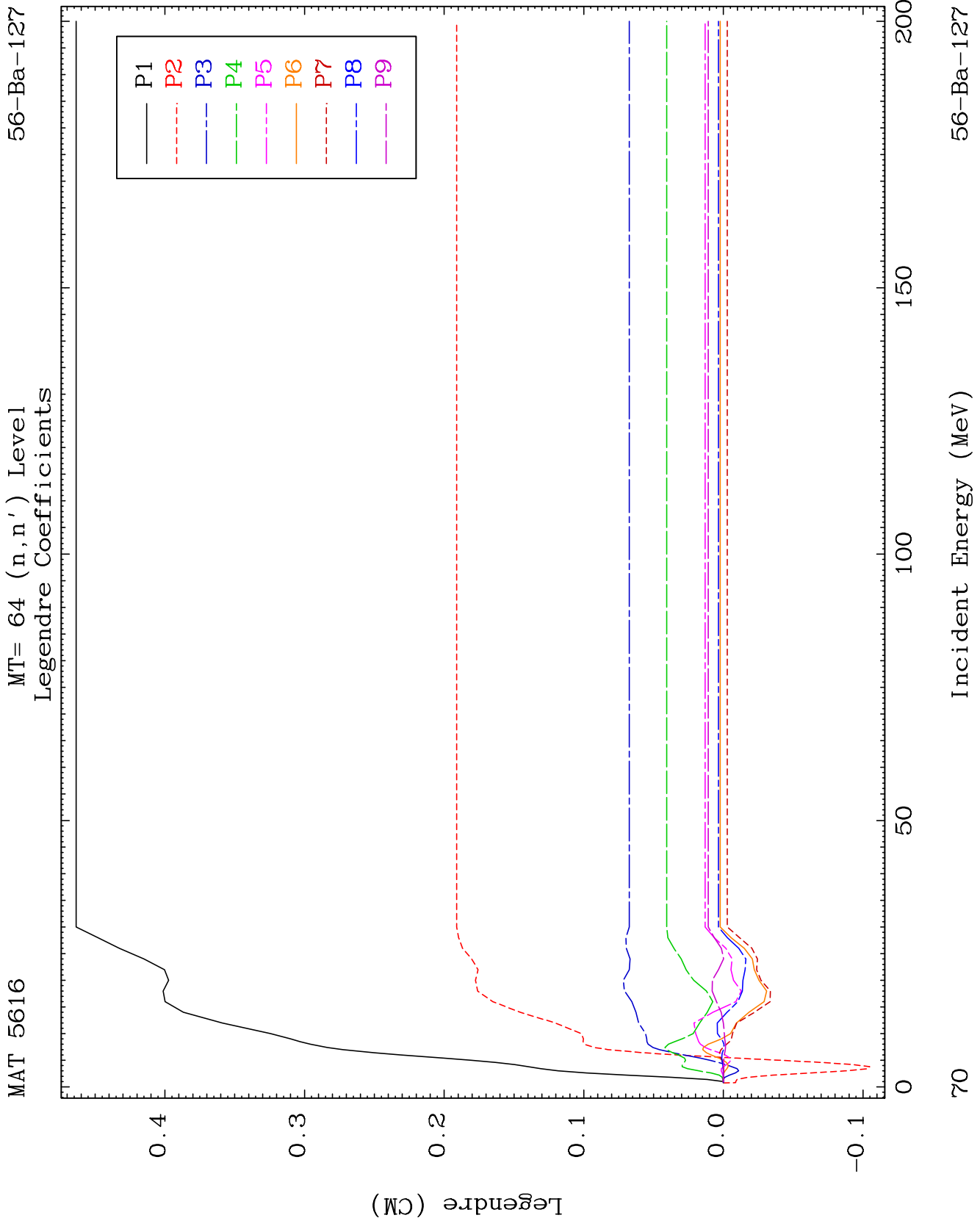
MT= 63 (n,n') Level
Legendre Coefficients

56-Ba-127



68

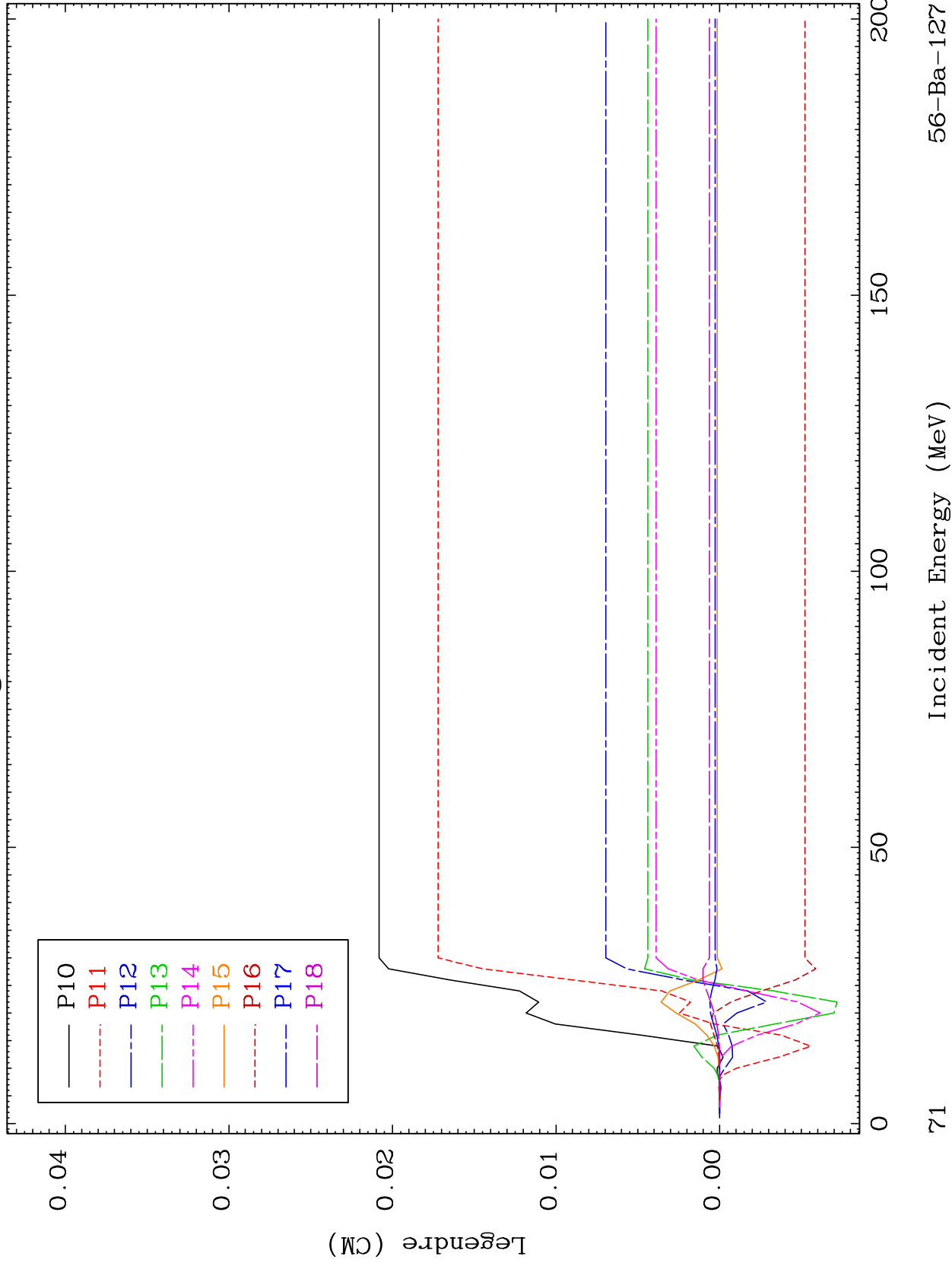


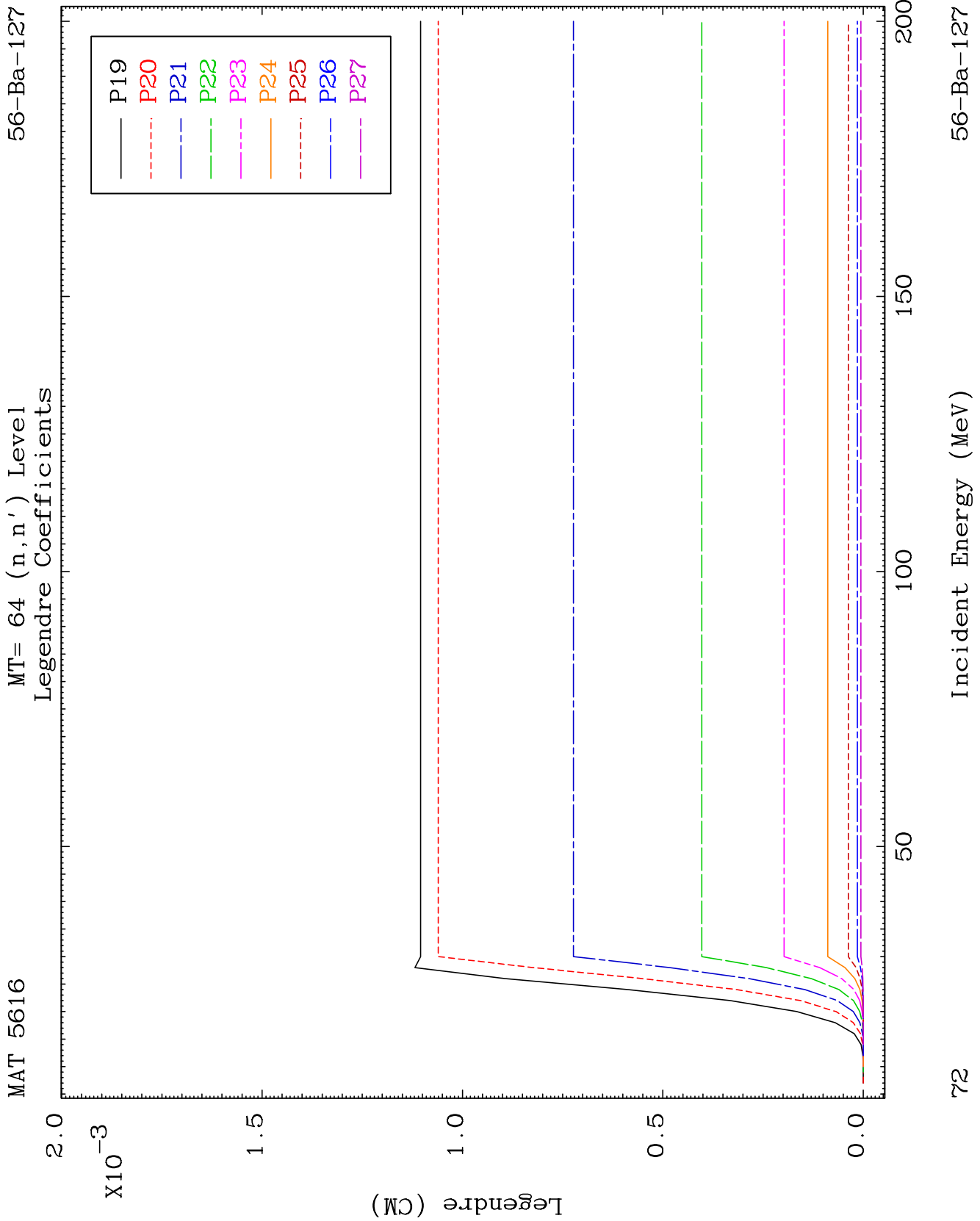


MAT 5616

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

56-Ba-127

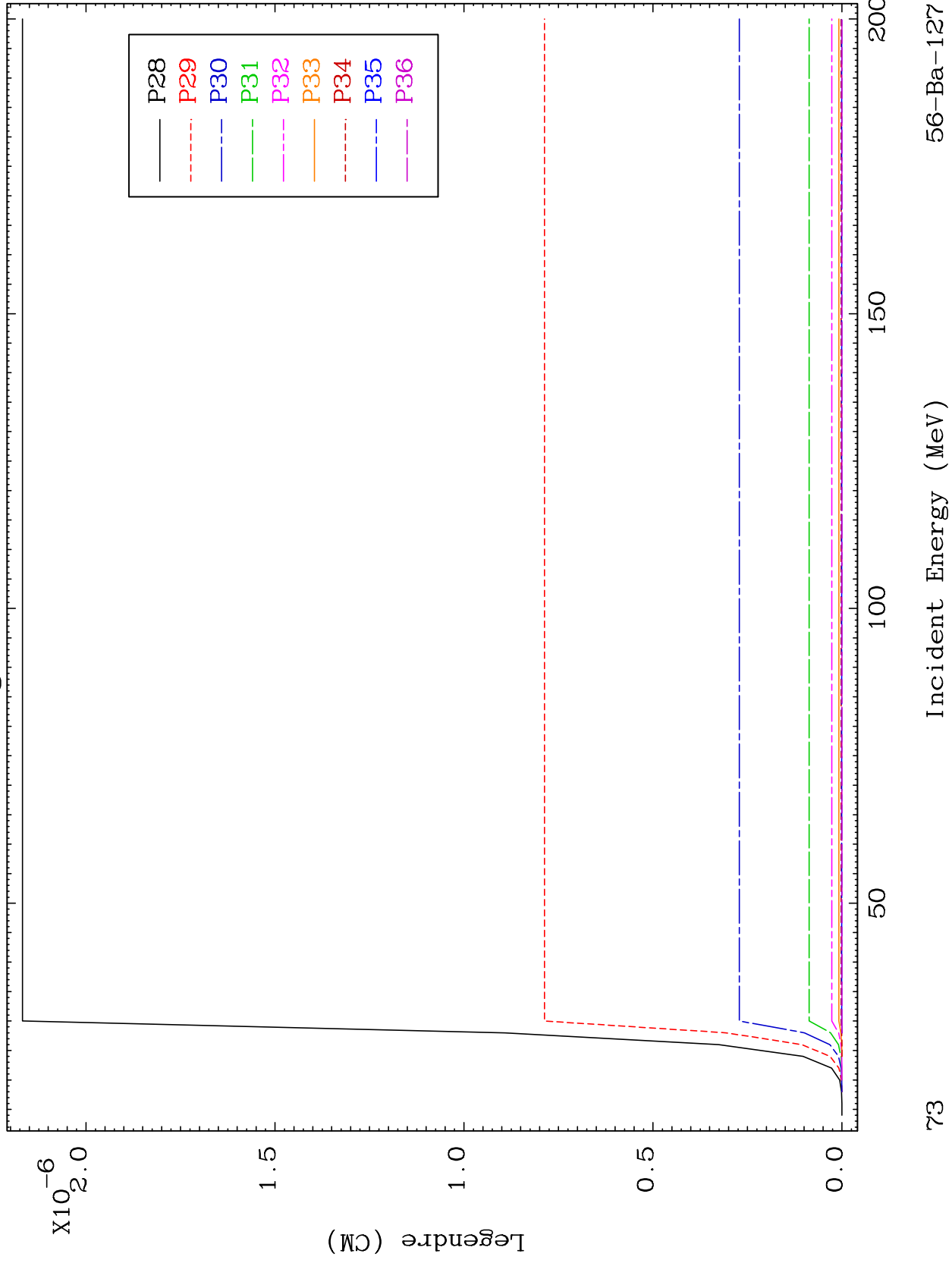




MAT 5616

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

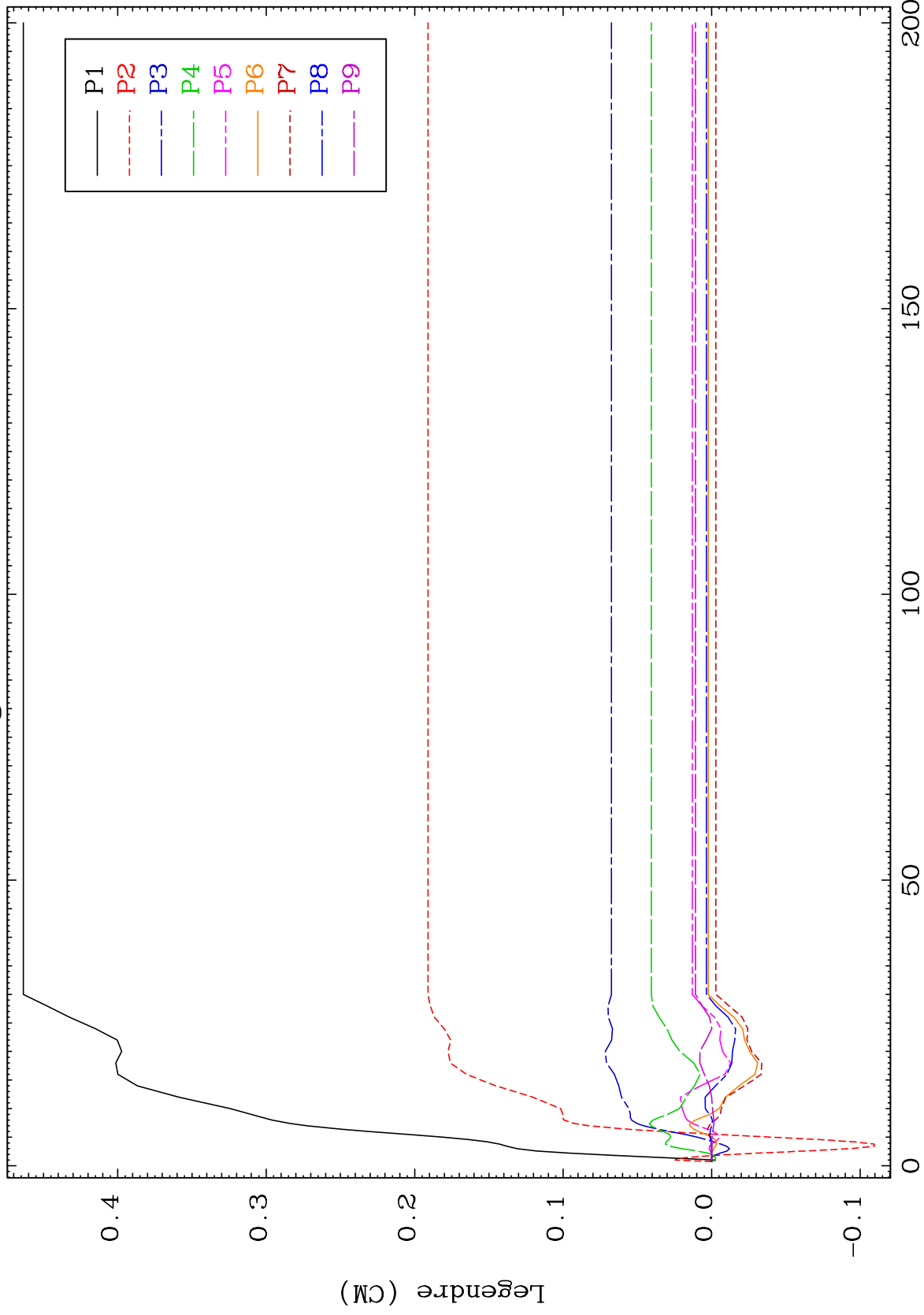
56-Ba-127



MAT 5616

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

56-Ba-127



74

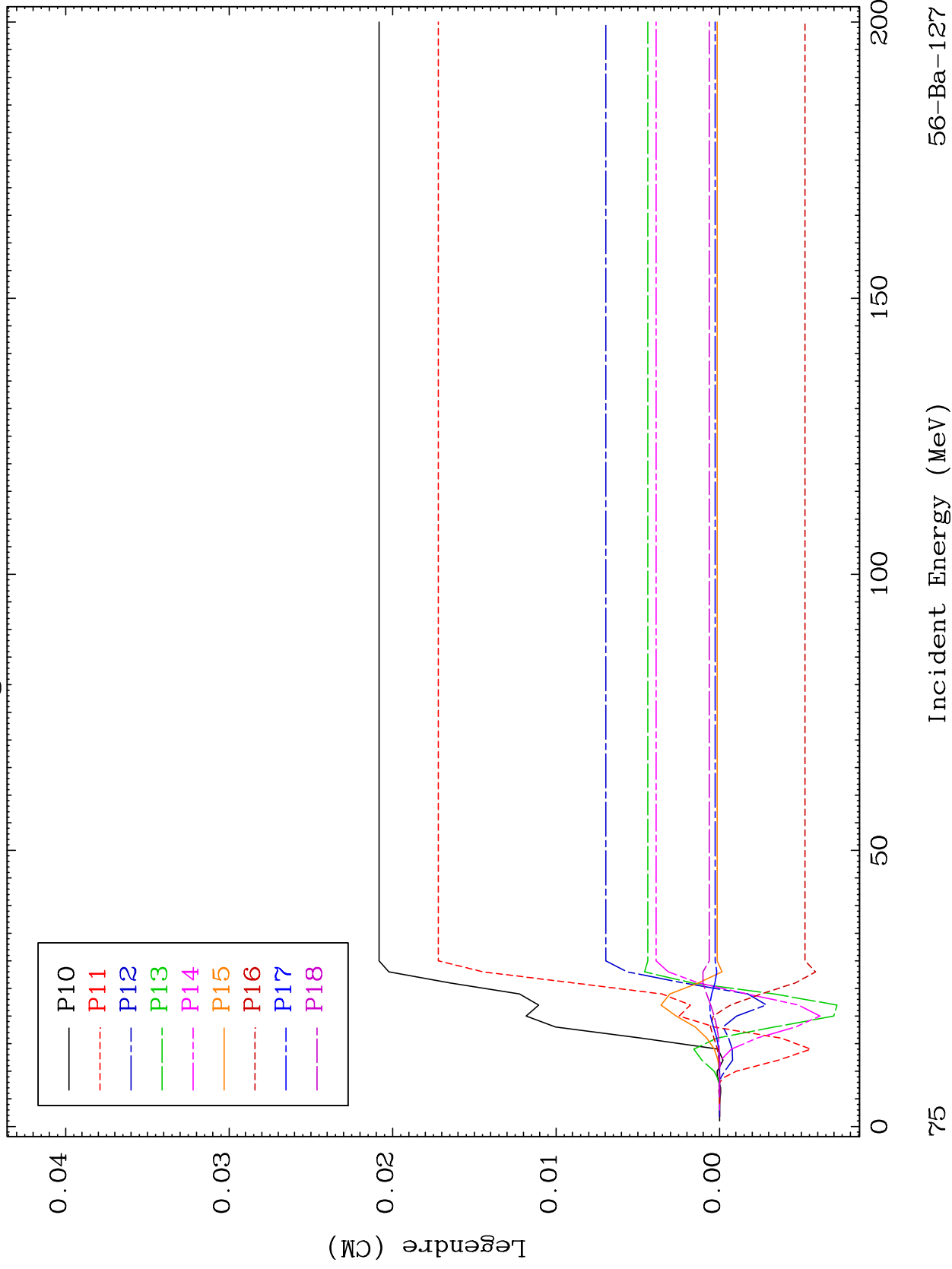
Incident Energy (MeV)

56-Ba-127

MAT 5616

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

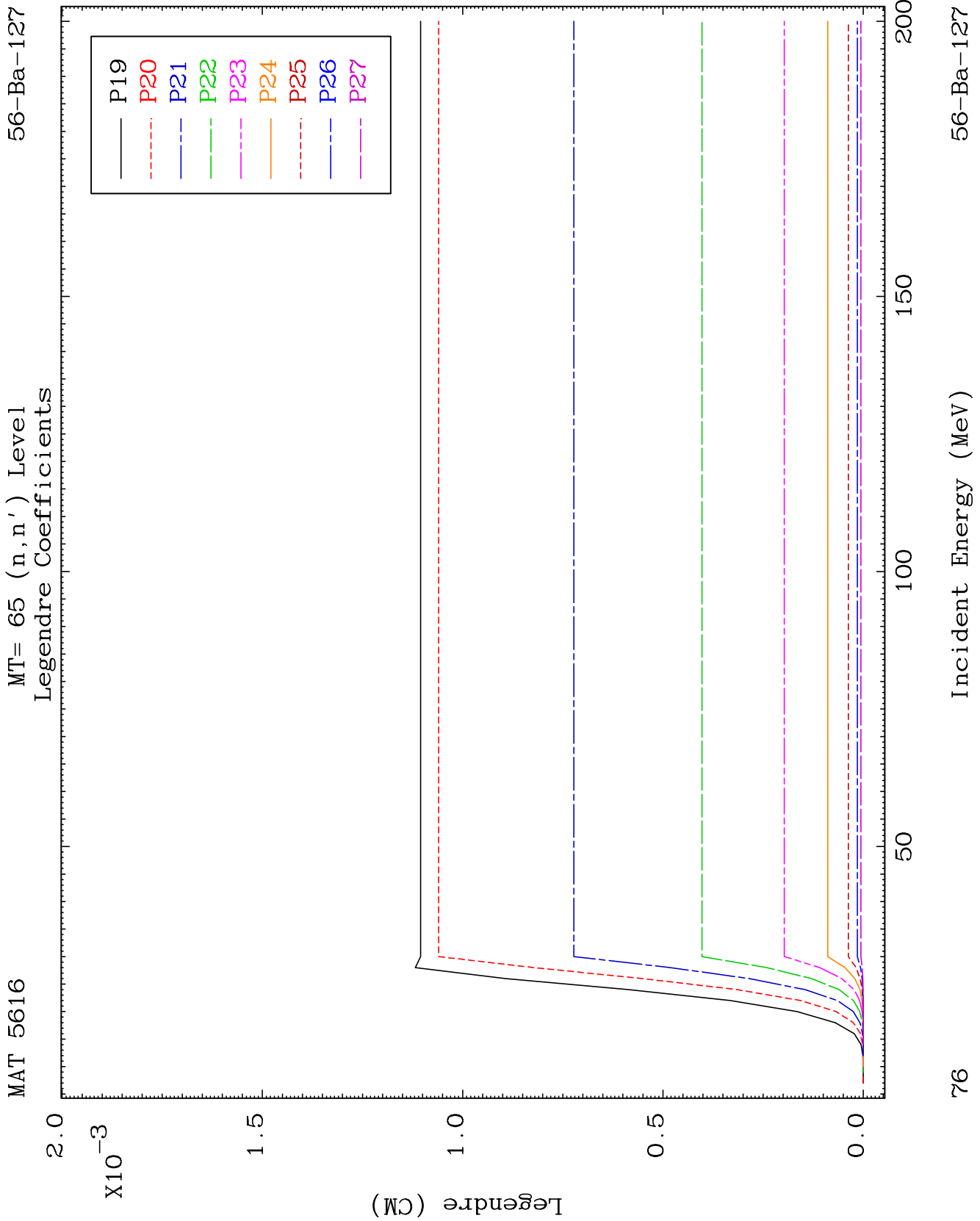
56-Ba-127



56-Ba-127

Incident Energy (MeV)

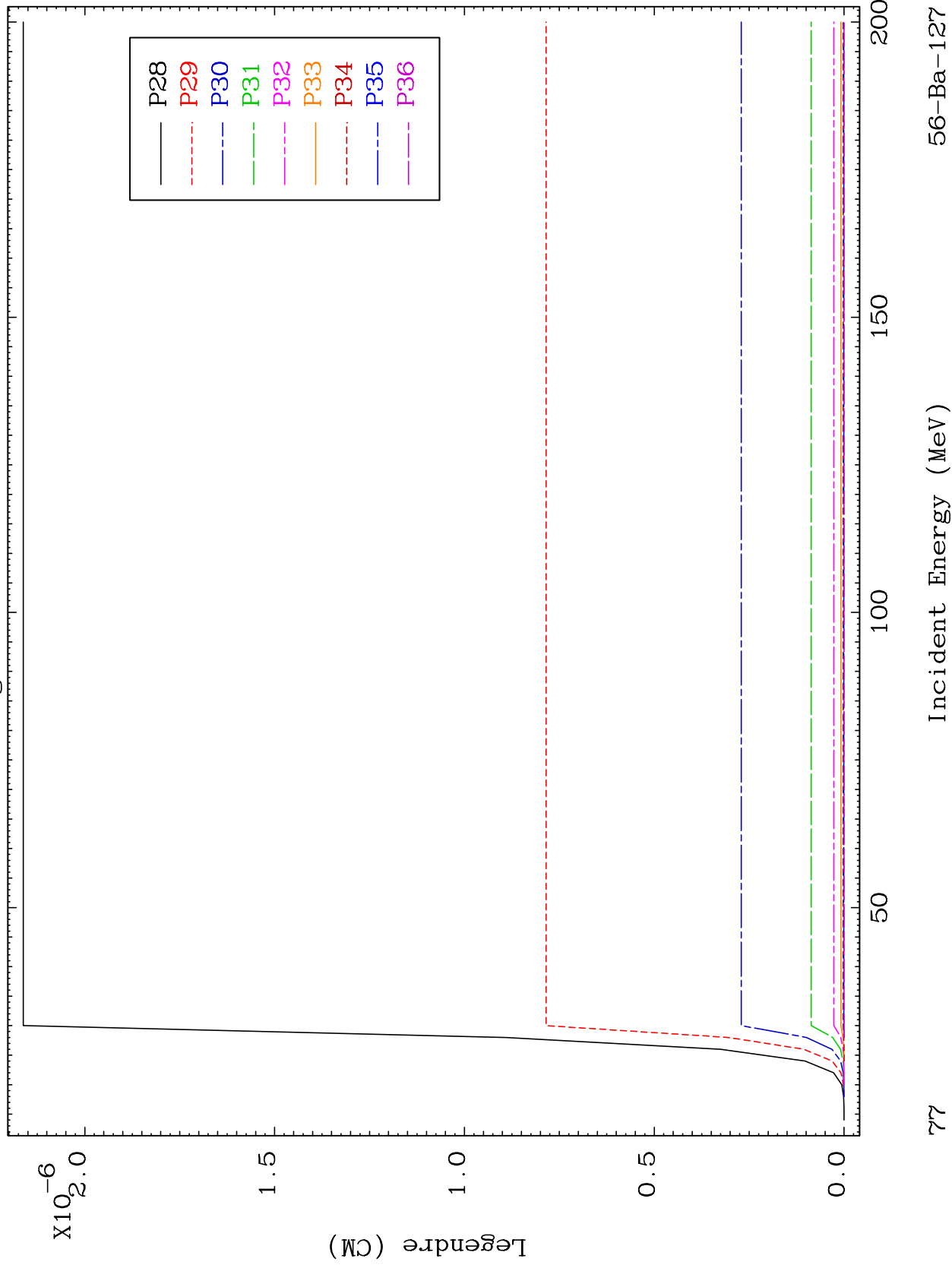
75



MAT 5616

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

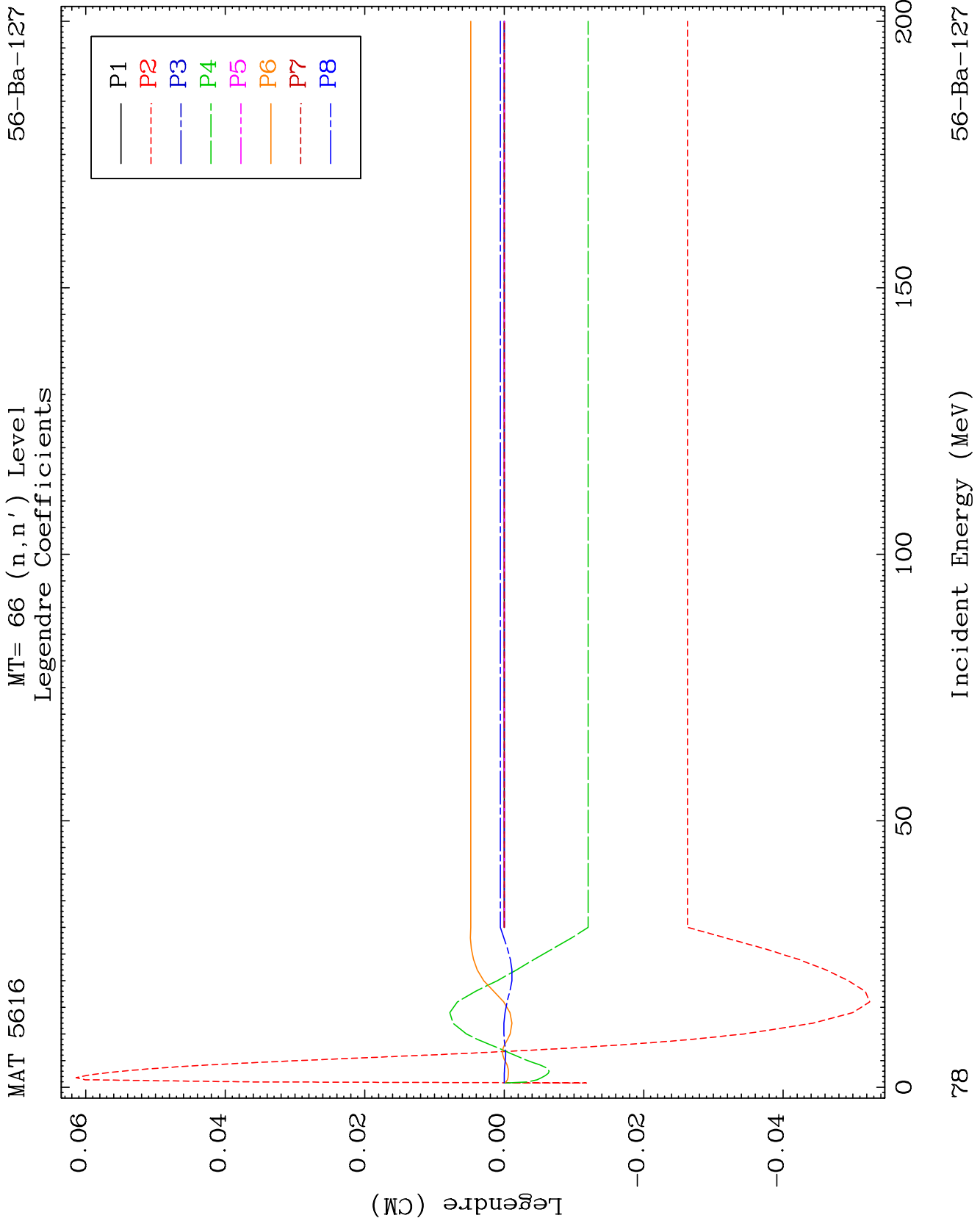
56-Ba-127



77

Incident Energy (MeV)

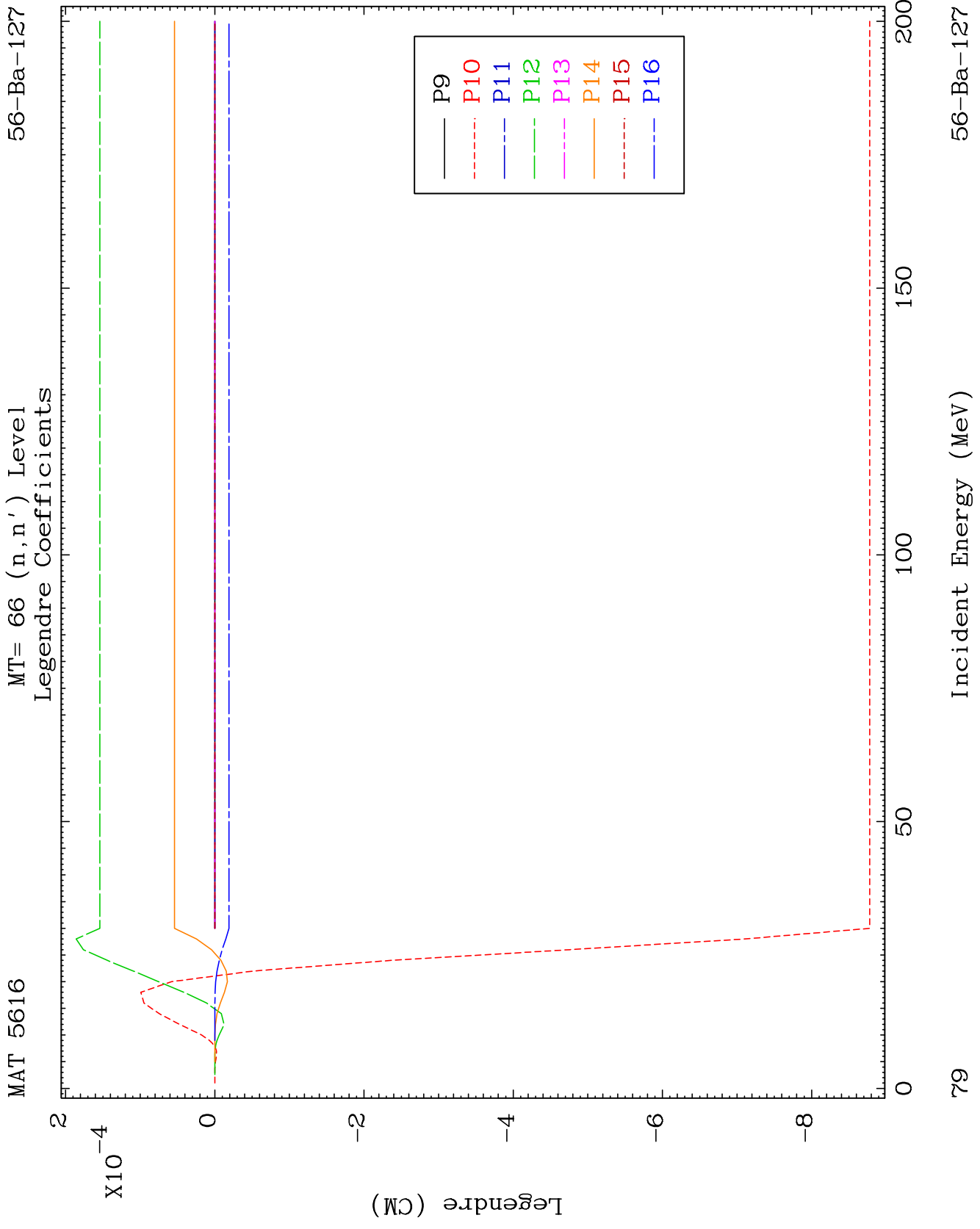
56-Ba-127



56-Ba-127

Incident Energy (MeV)

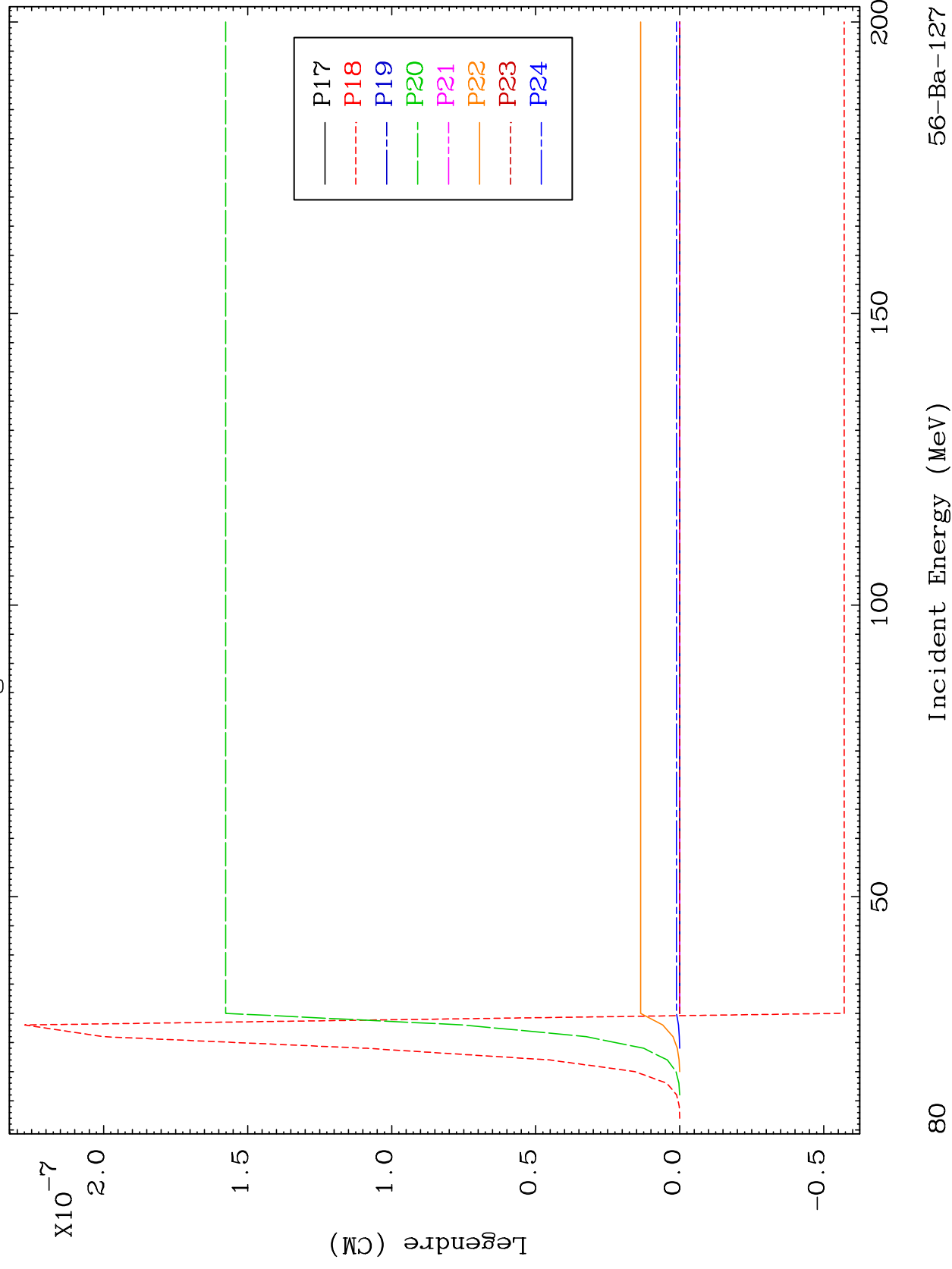
78



MAT 5616

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

56-Ba-127



56-Ba-127

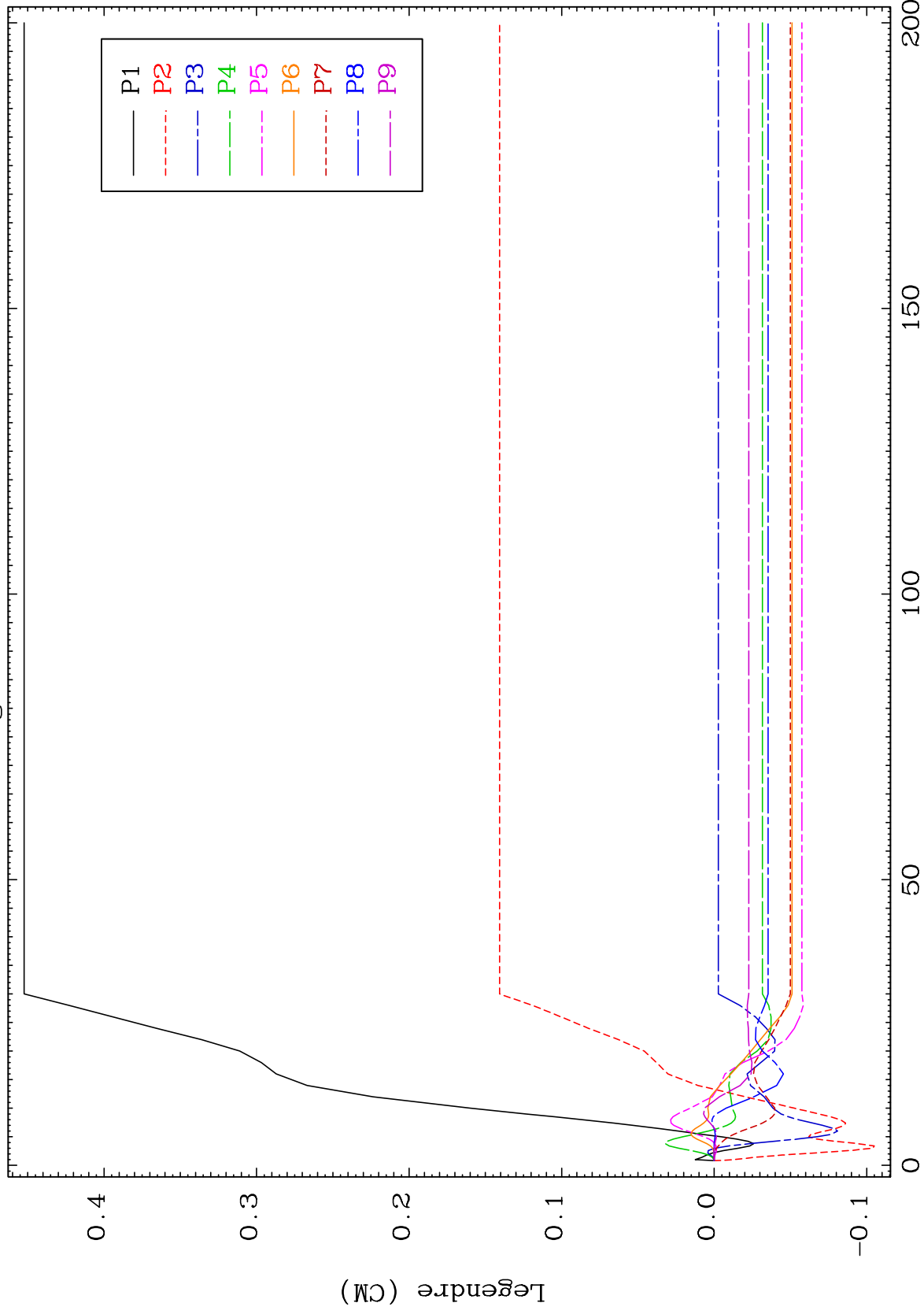
Incident Energy (MeV)

80

MAT 5616

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

56-Ba-127



81

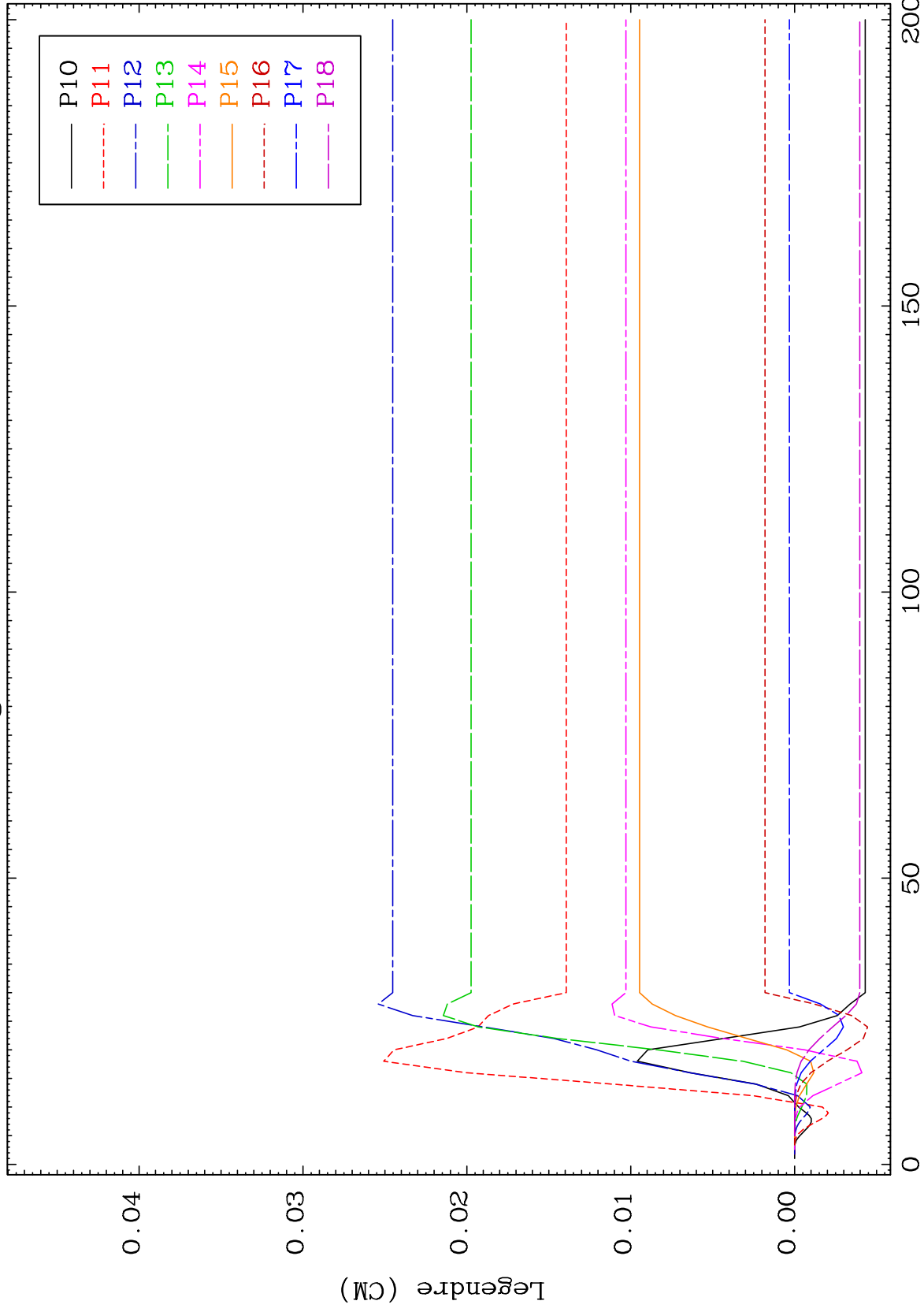
Incident Energy (MeV)

56-Ba-127

MAT 5616

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

56-Ba-127



82

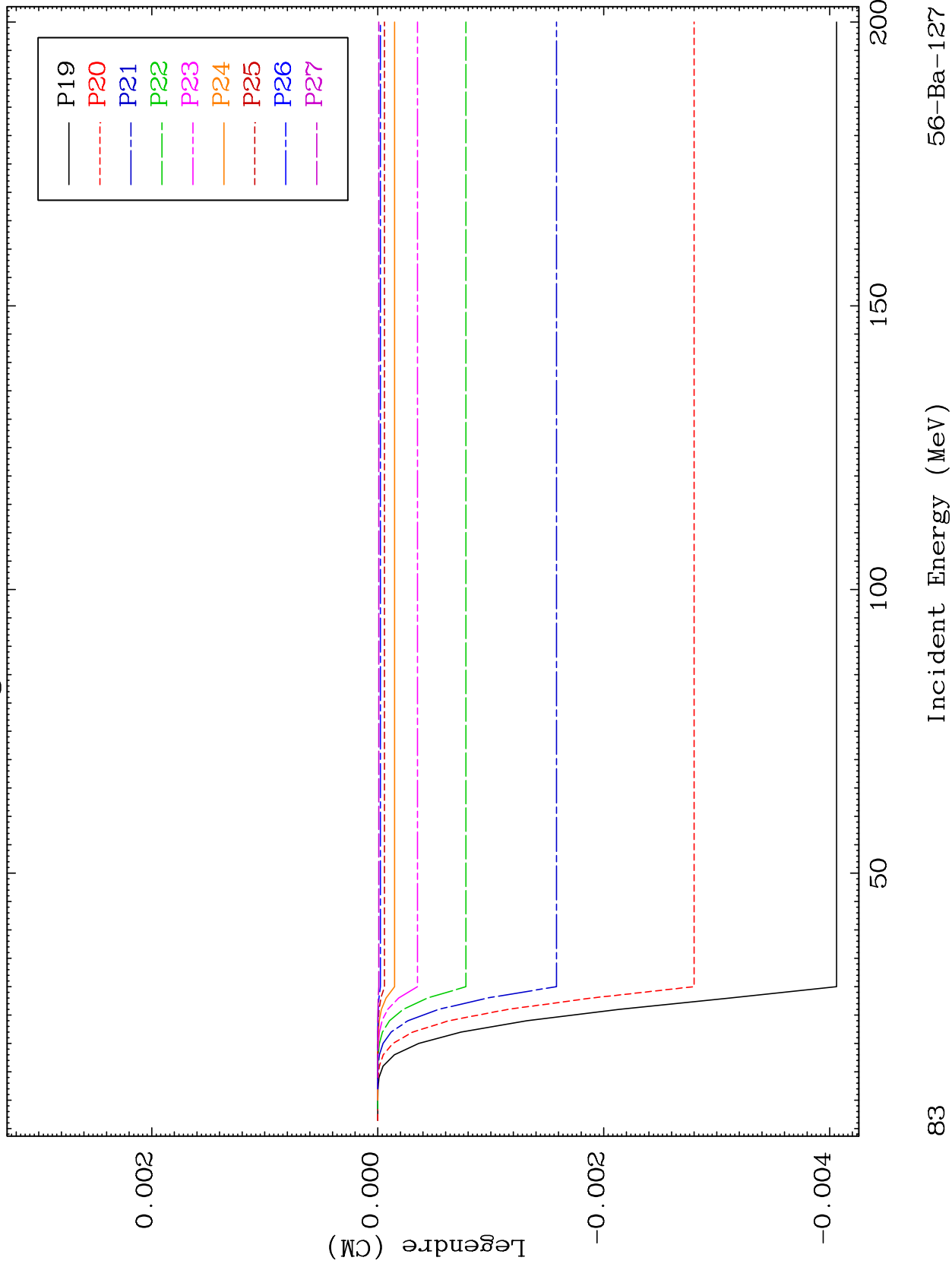
Incident Energy (MeV)

56-Ba-127

MAT 5616

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

56-Ba-127



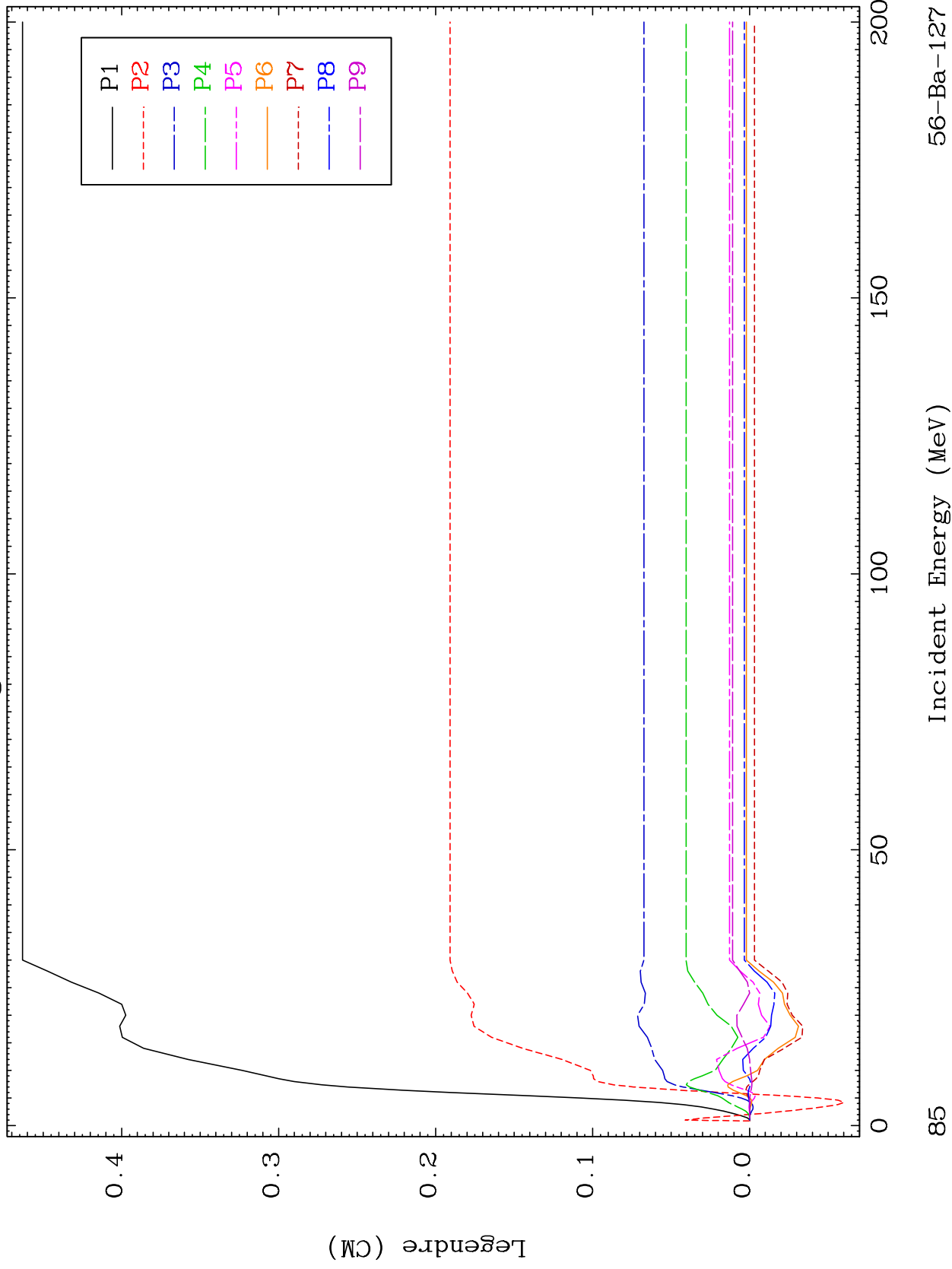
83

56-Ba-127

MAT 5616

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

56-Ba-127



56-Ba-127

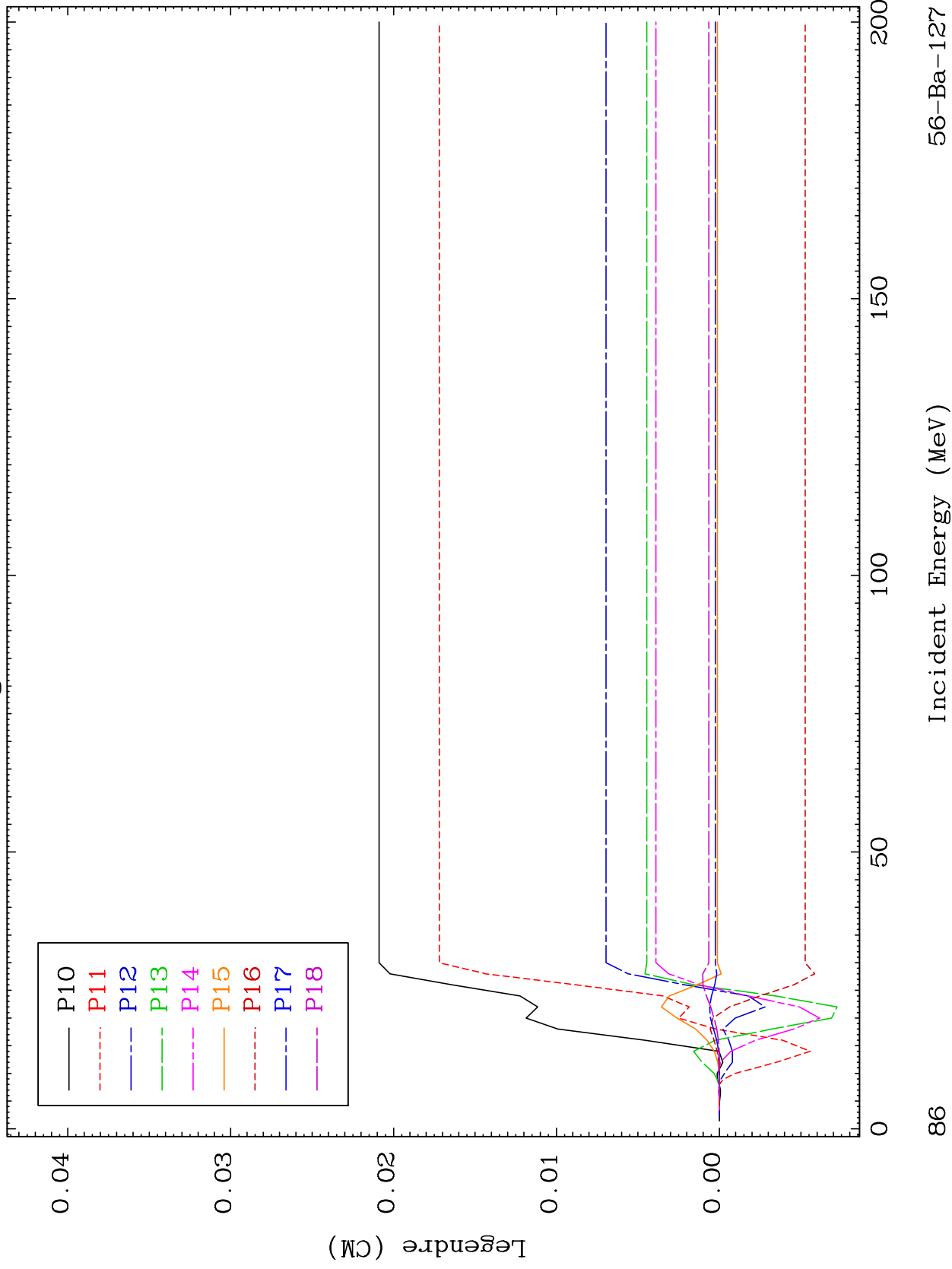
Incident Energy (MeV)

85

MAT 5616

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

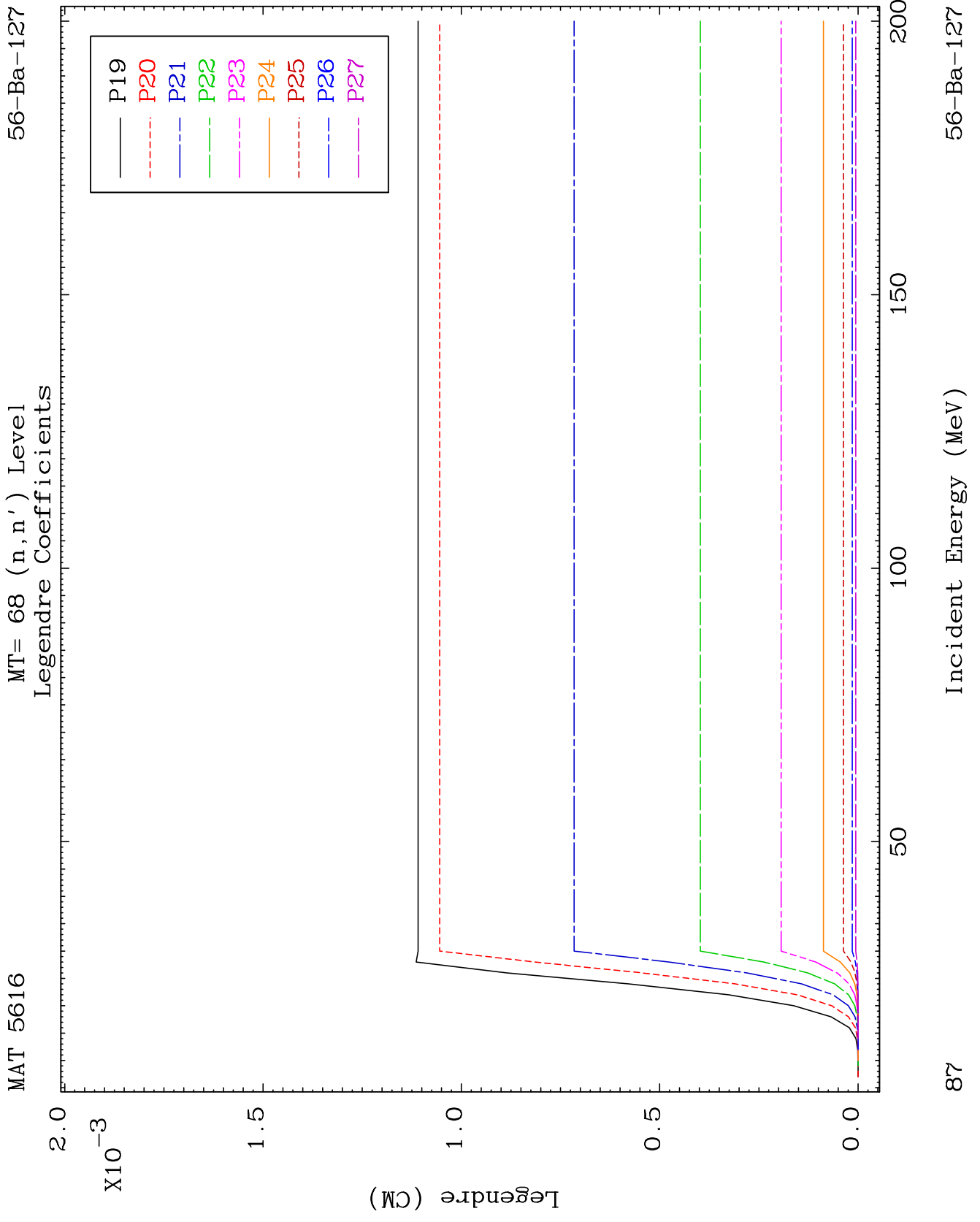
56-Ba-127



56-Ba-127

Incident Energy (MeV)

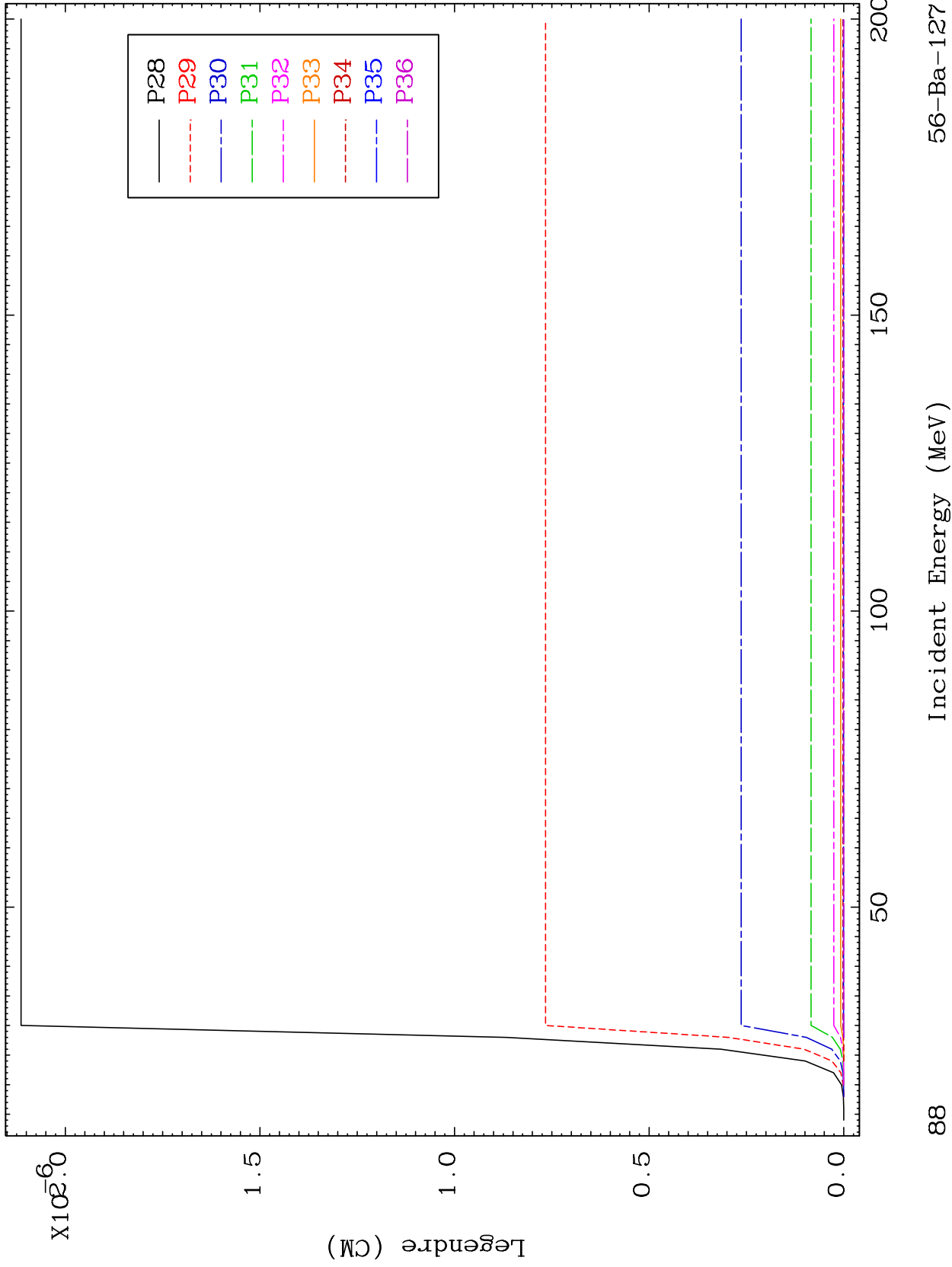
86



MAT 5616

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

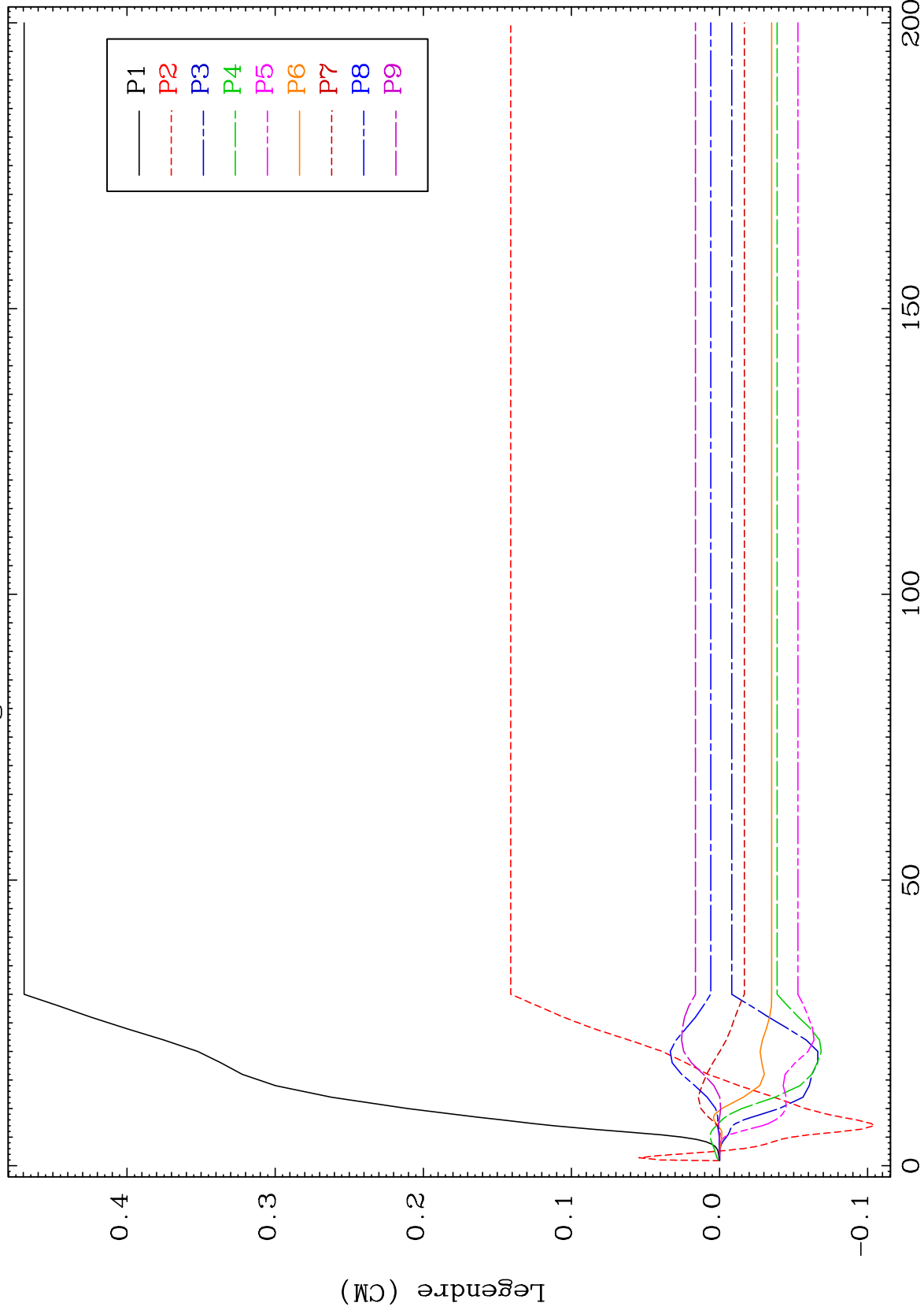
56-Ba-127



MAT 5616

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

56-Ba-127



56-Ba-127

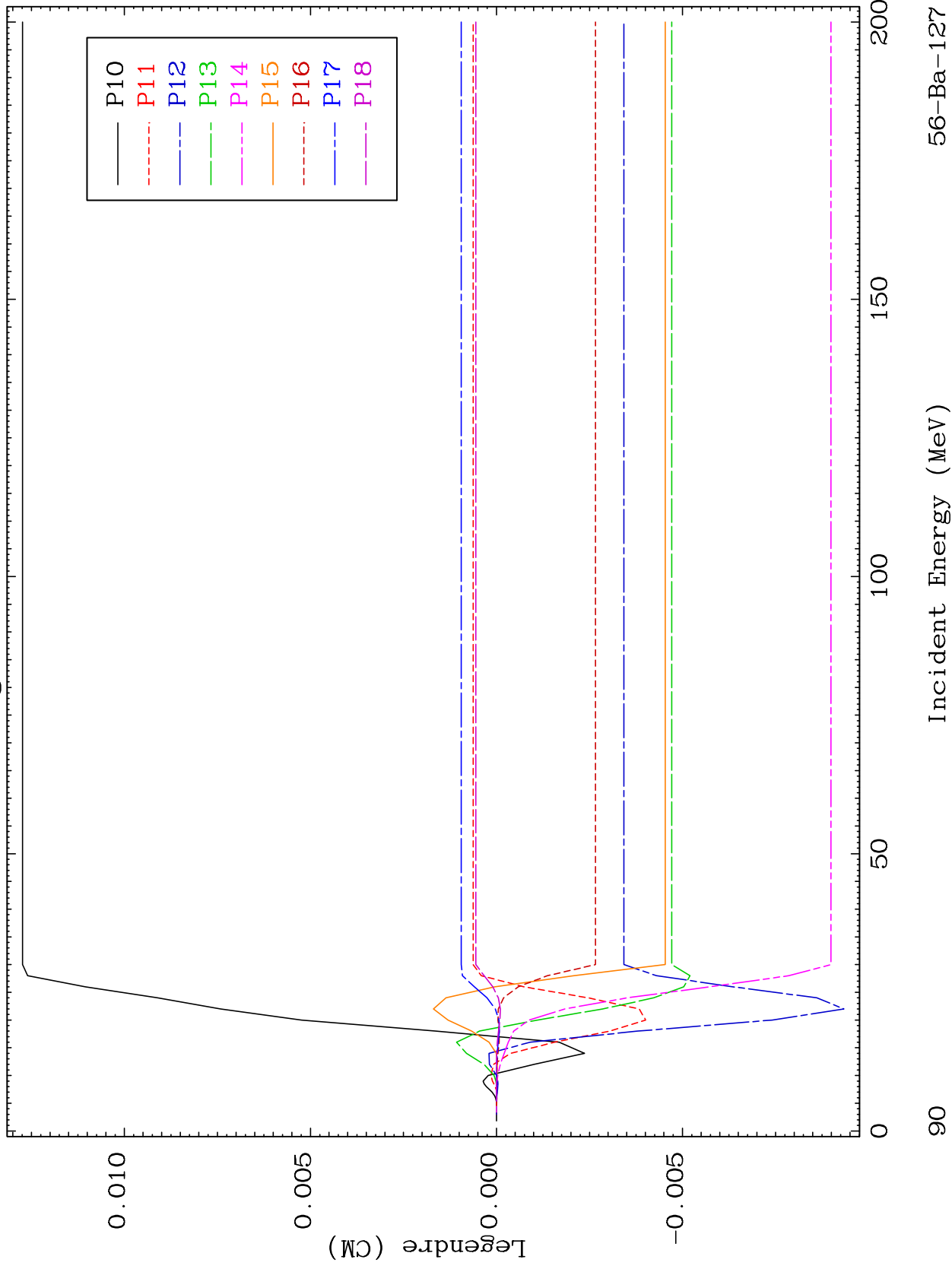
Incident Energy (MeV)

89

MAT 5616

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

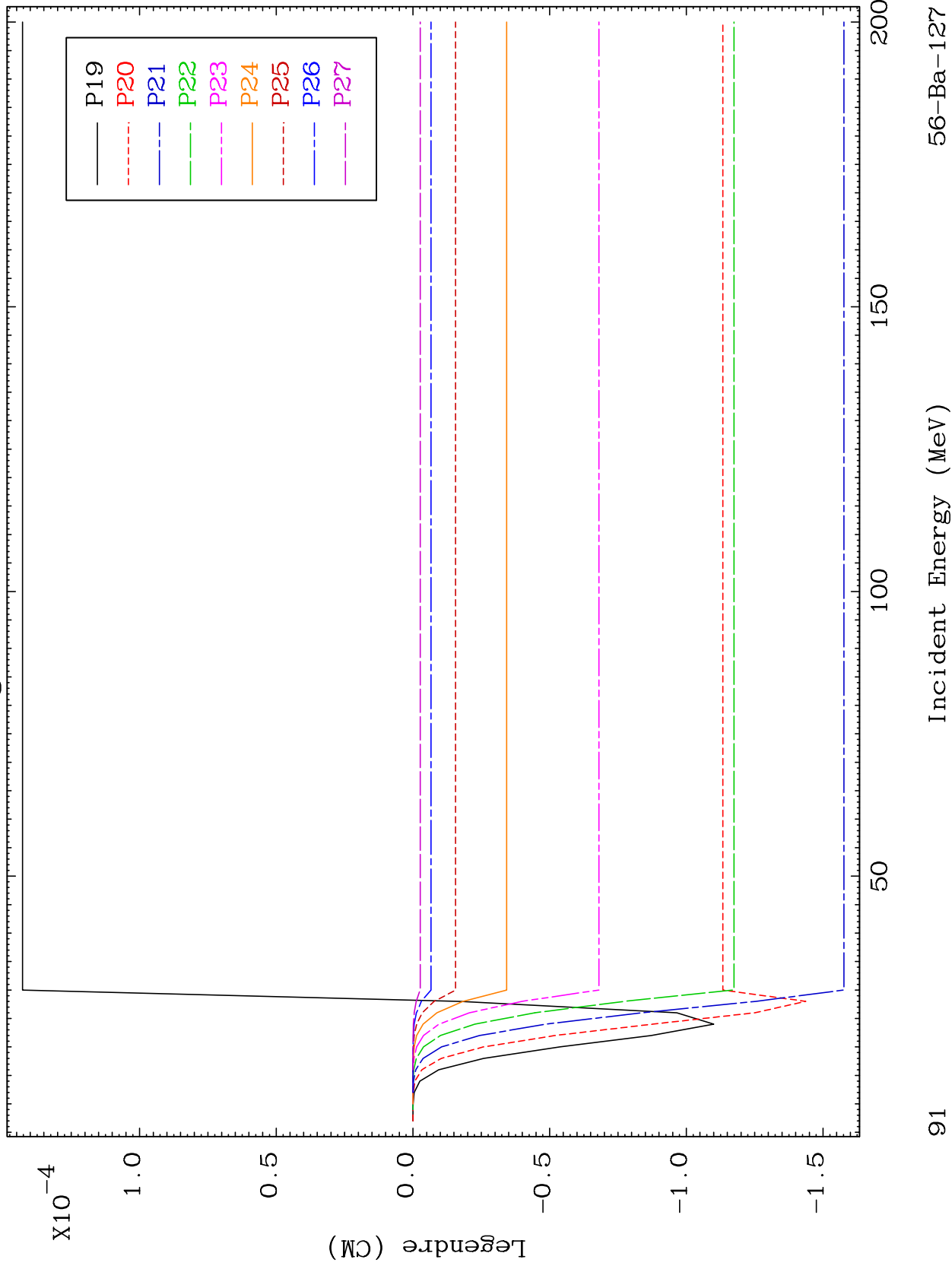
56-Ba-127



MAT 5616

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

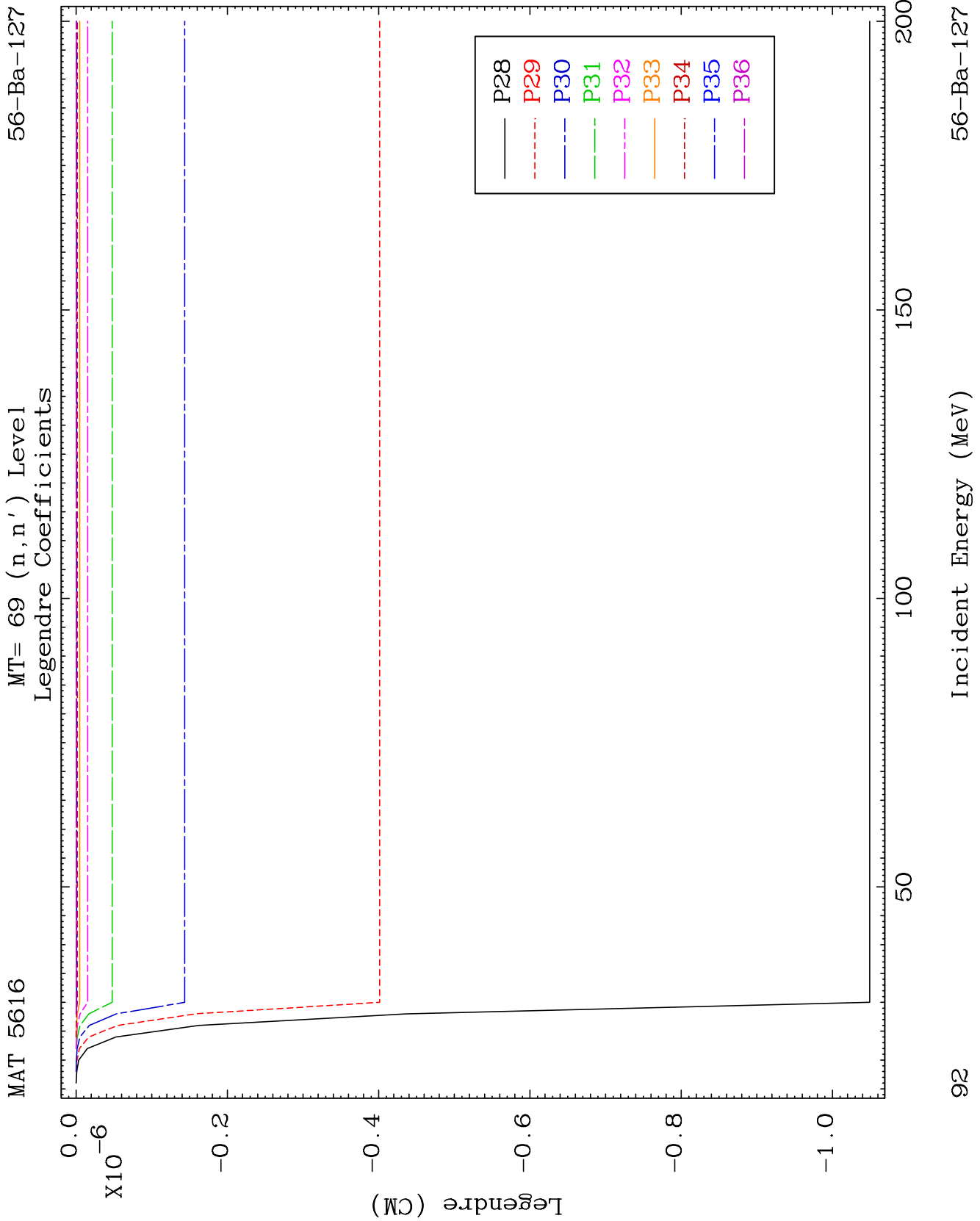
56-Ba-127



91

Incident Energy (MeV)

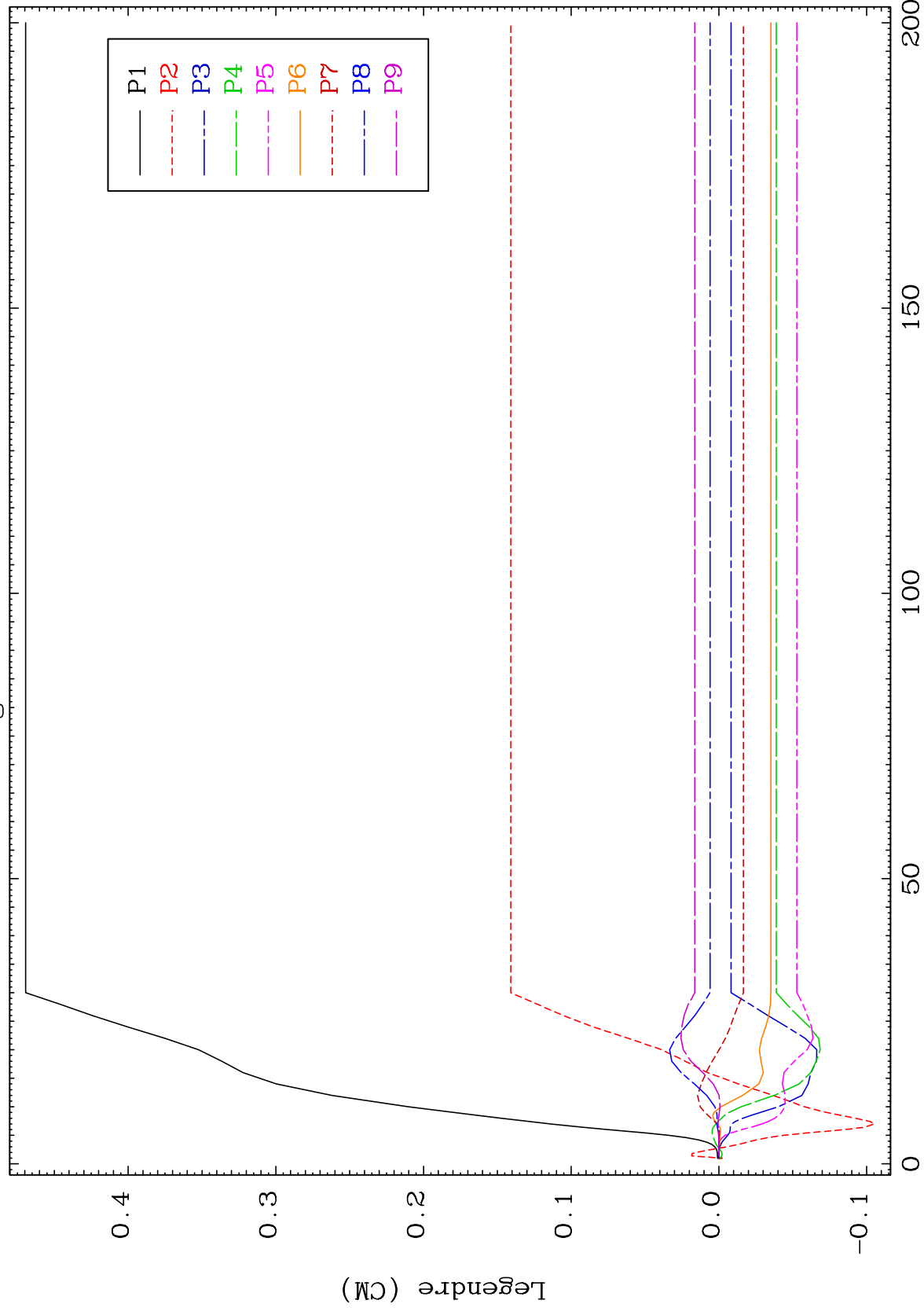
56-Ba-127



MAT 5616

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

56-Ba-127



93

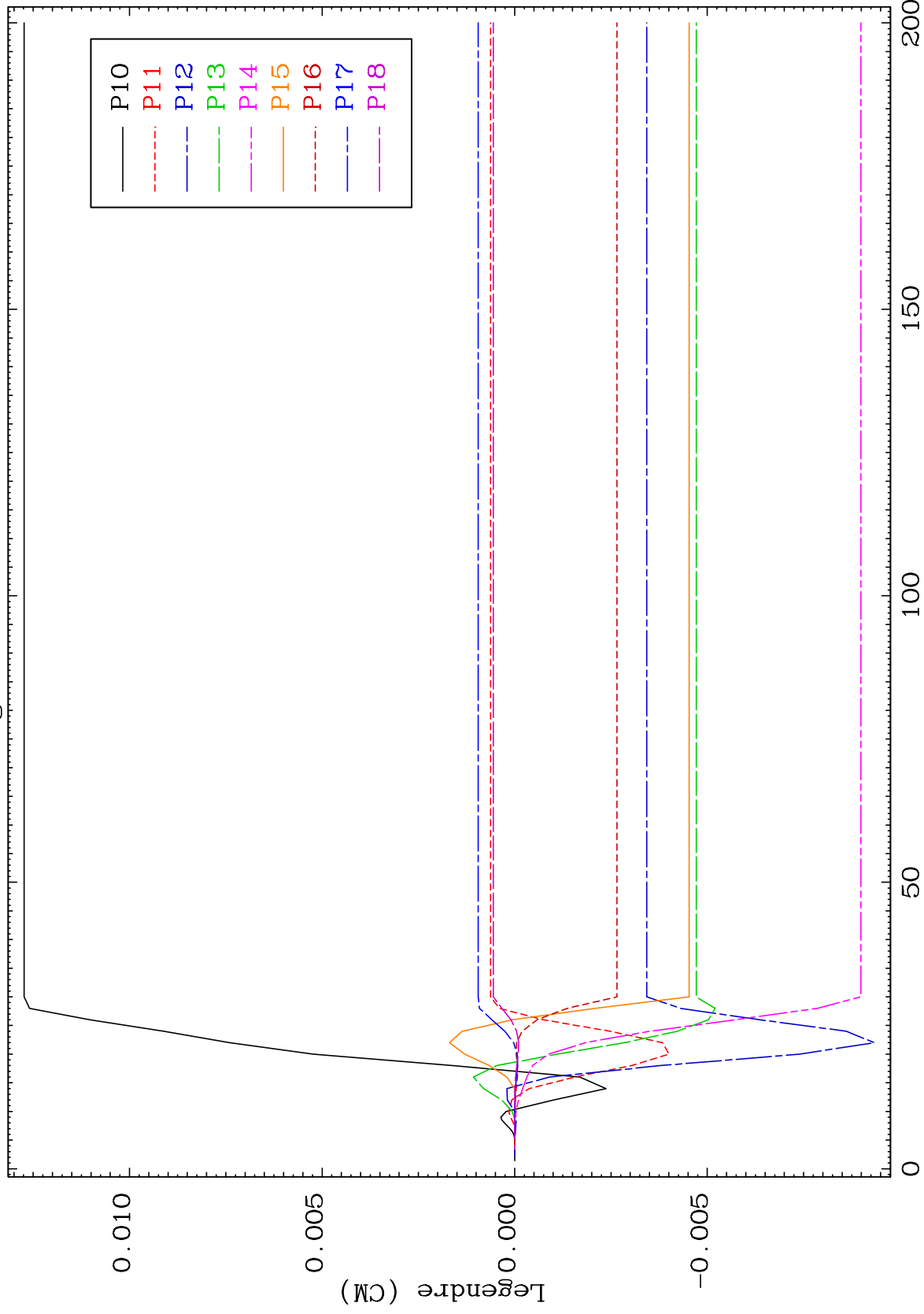
Incident Energy (MeV)

56-Ba-127

MAT 5616

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

56-Ba-127



94

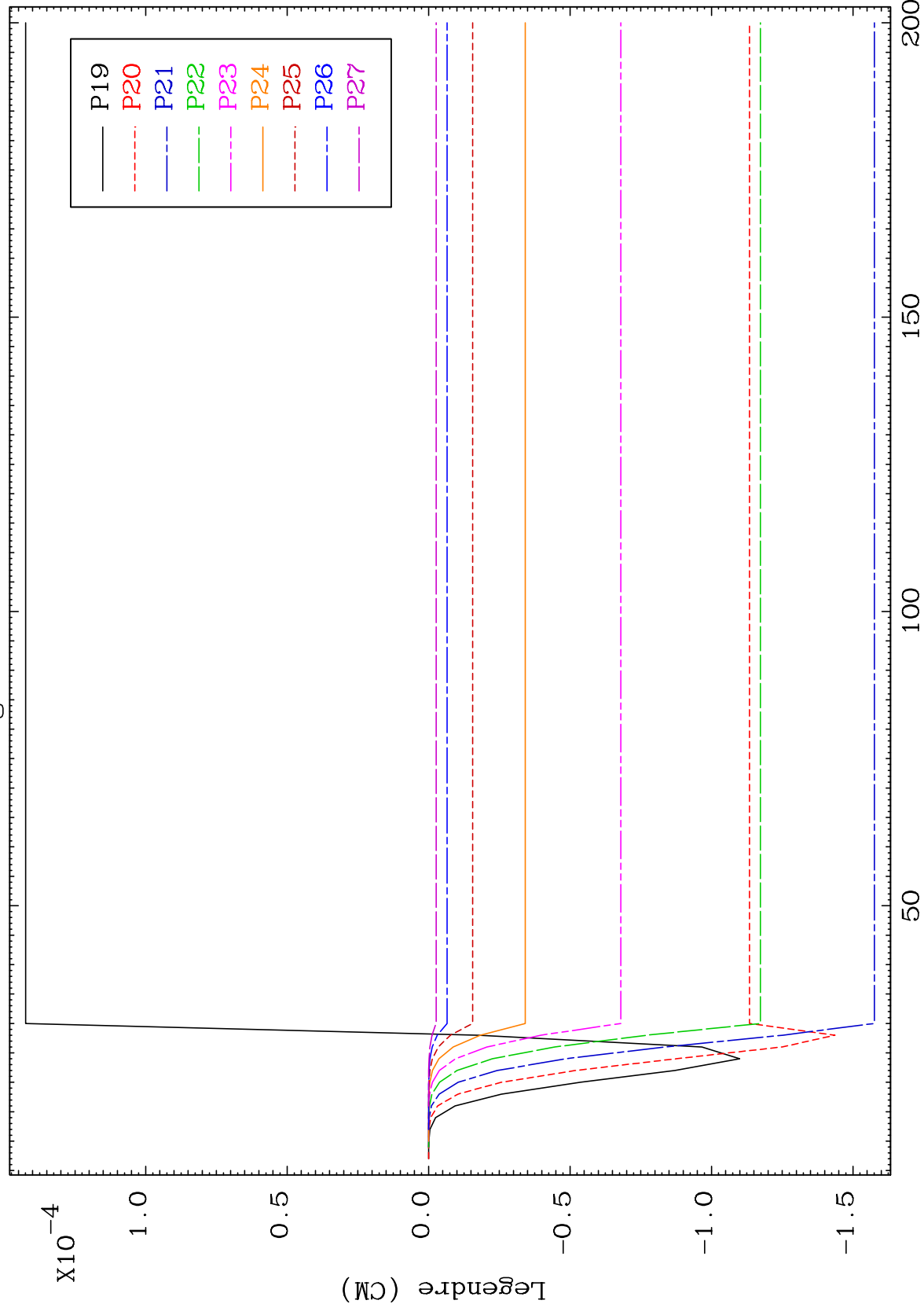
Incident Energy (MeV)

56-Ba-127

MAT 5616

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

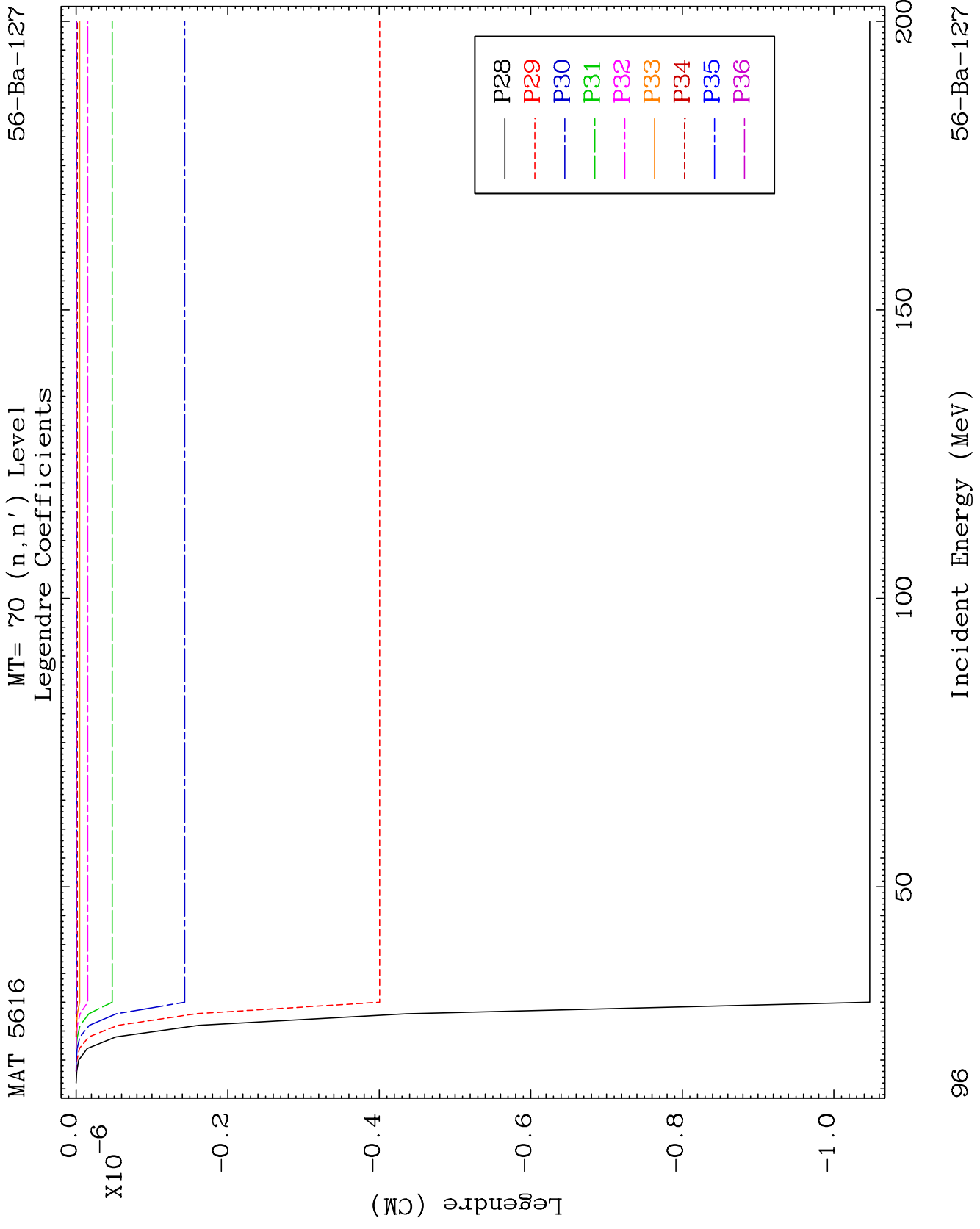
56-Ba-127



95

Incident Energy (MeV)

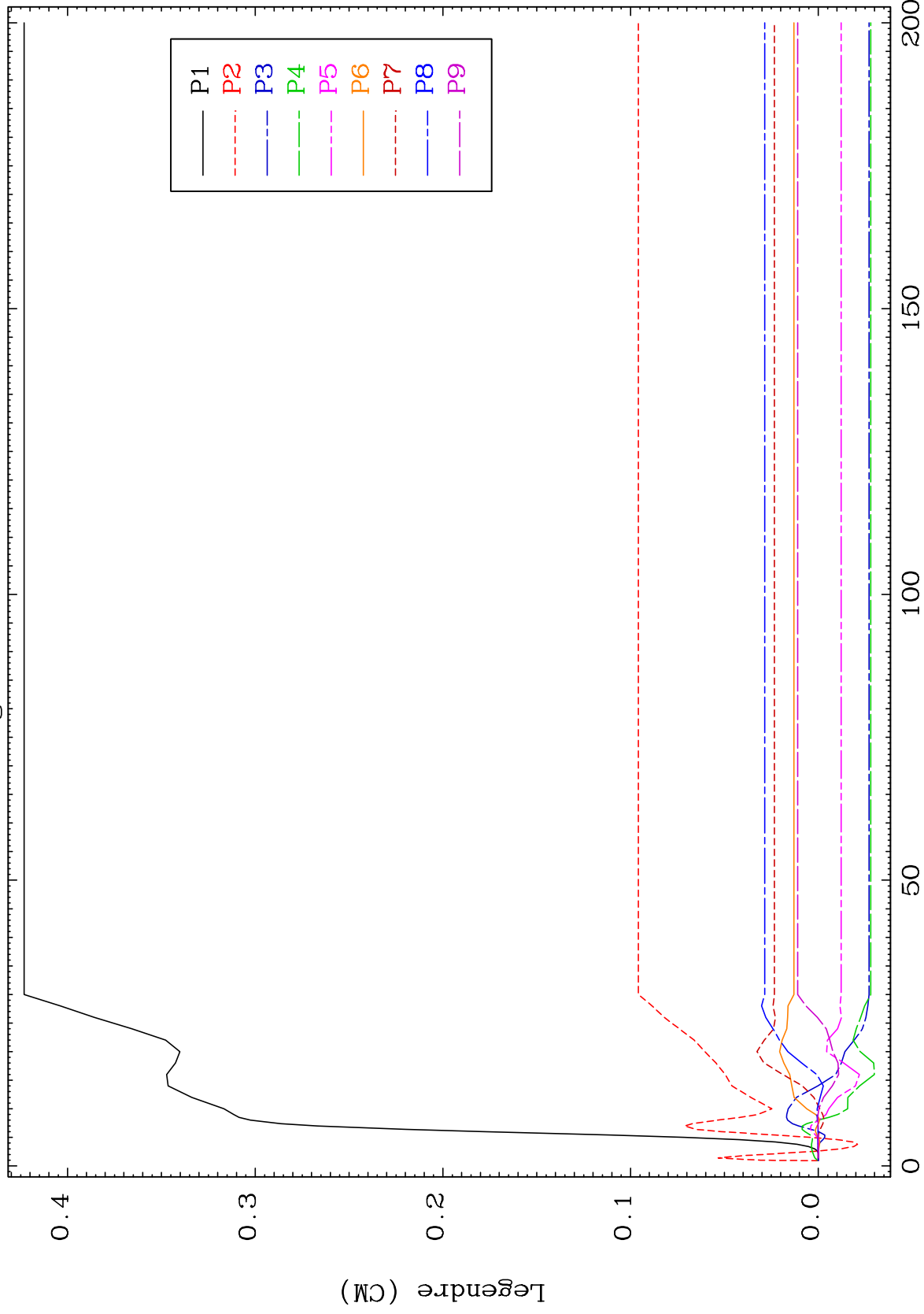
56-Ba-127



MAT 5616

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

56-Ba-127



97

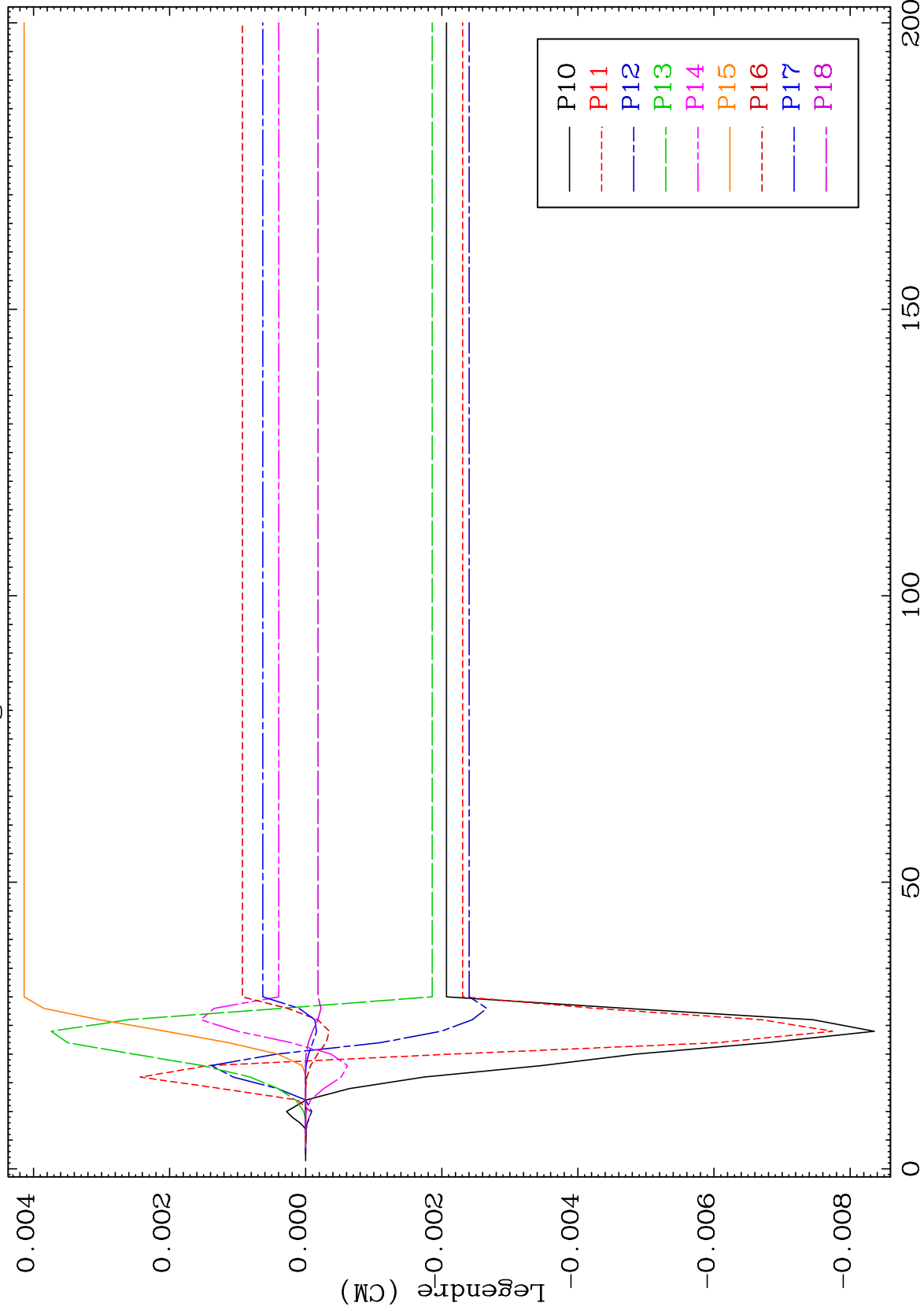
Incident Energy (MeV)

56-Ba-127

MAT 5616

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

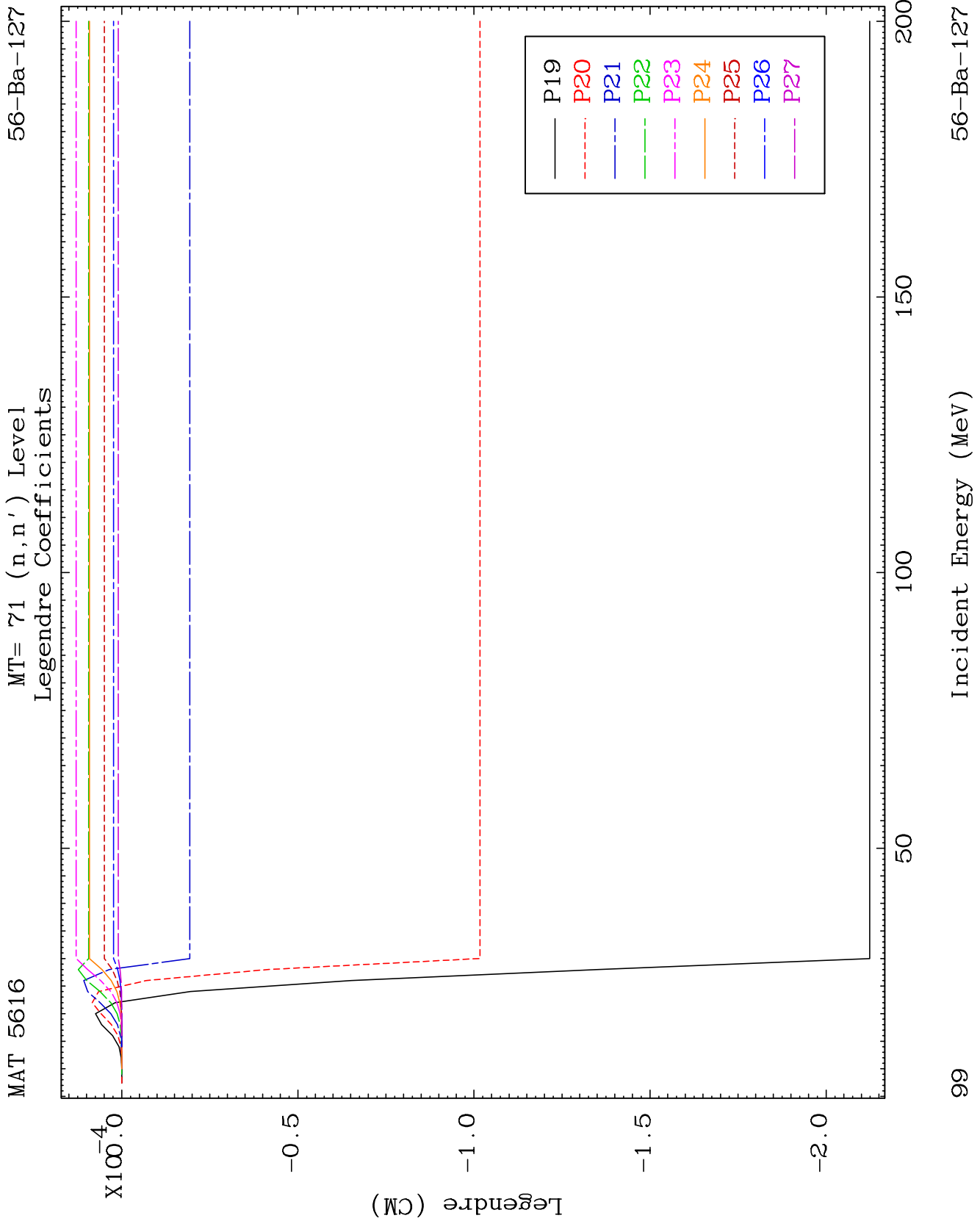
56-Ba-127



98

Incident Energy (MeV)

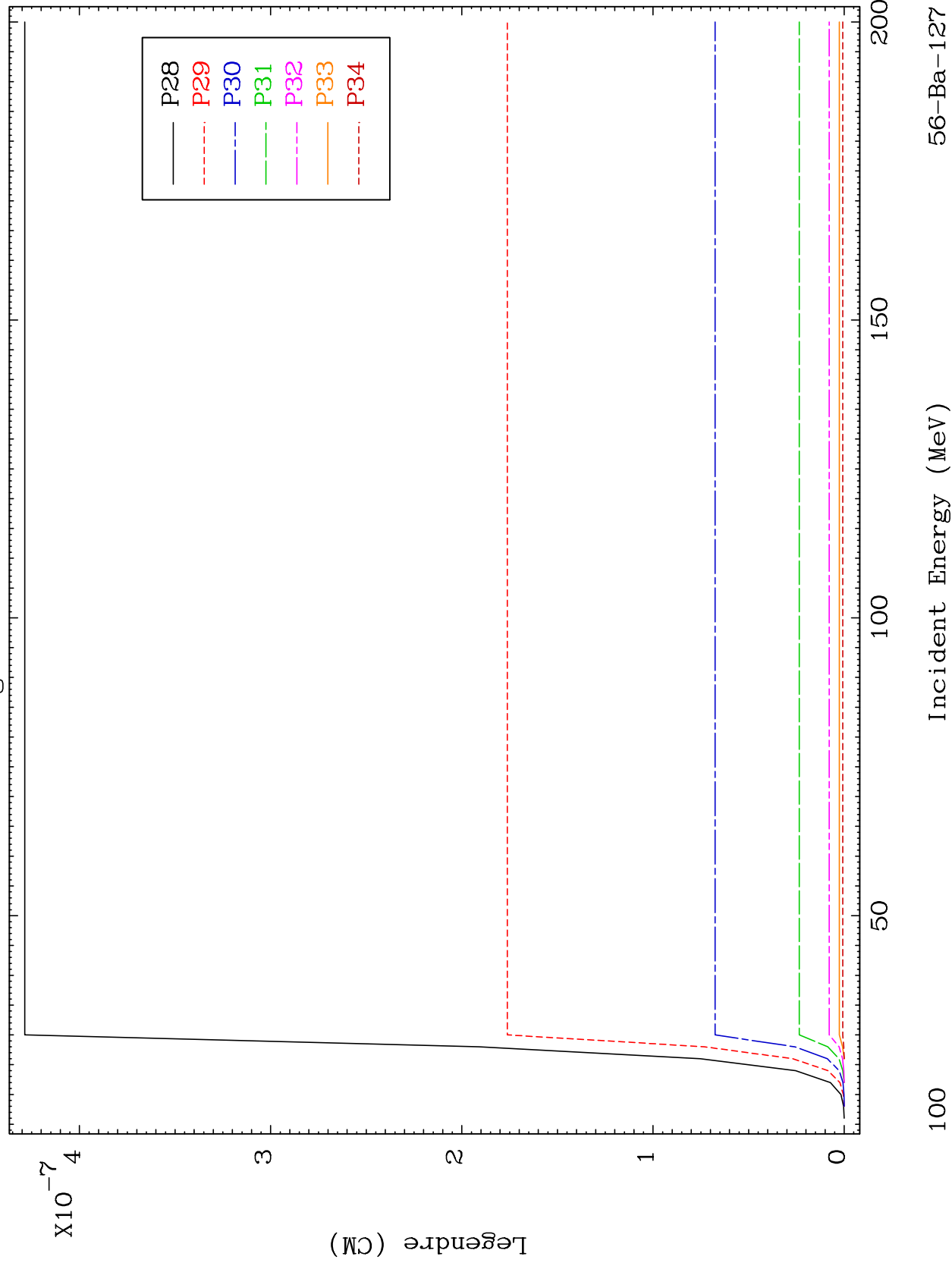
56-Ba-127



MAT 5616

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

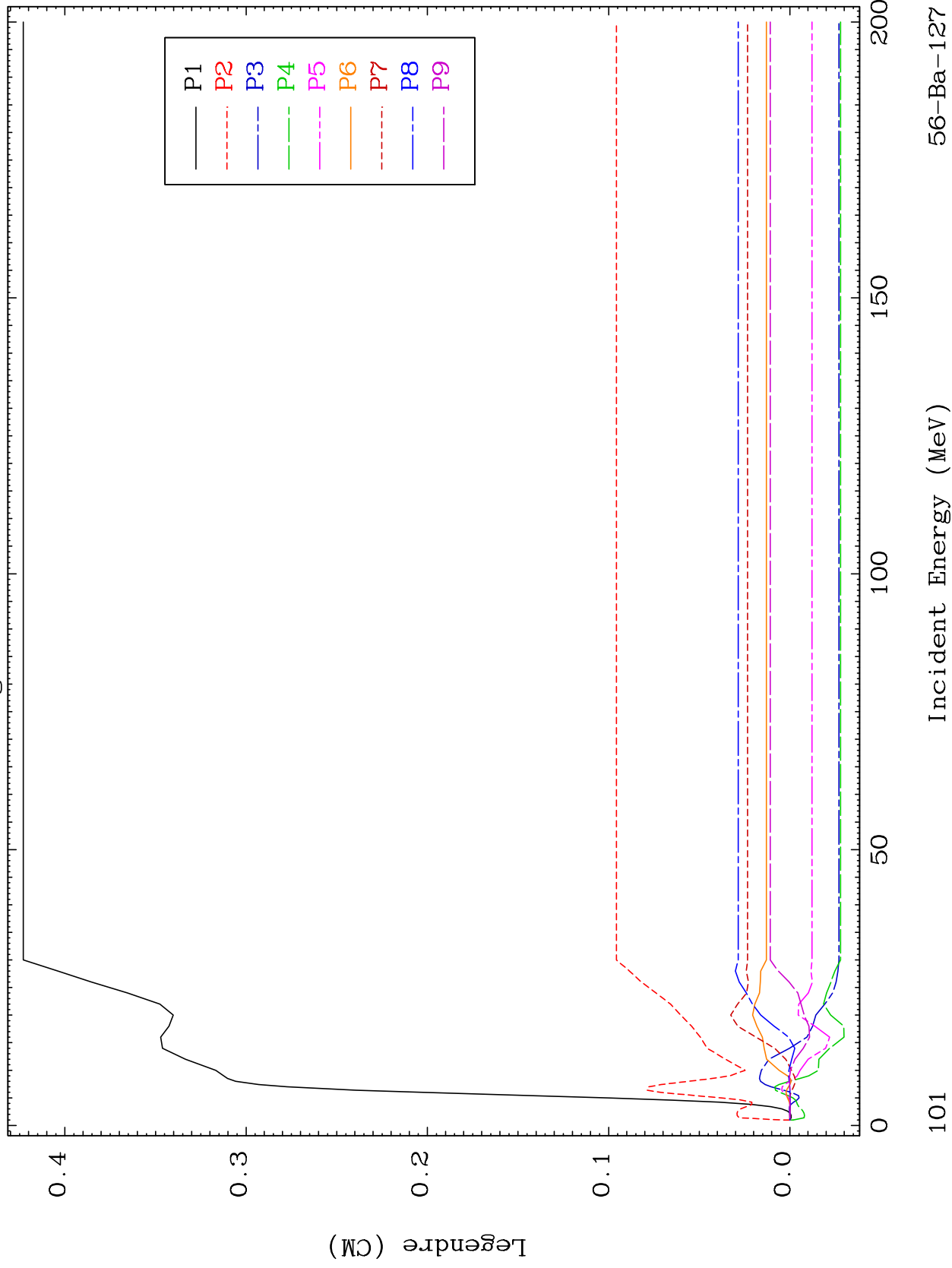
56-Ba-127



MAT 5616

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

56-Ba-127



56-Ba-127

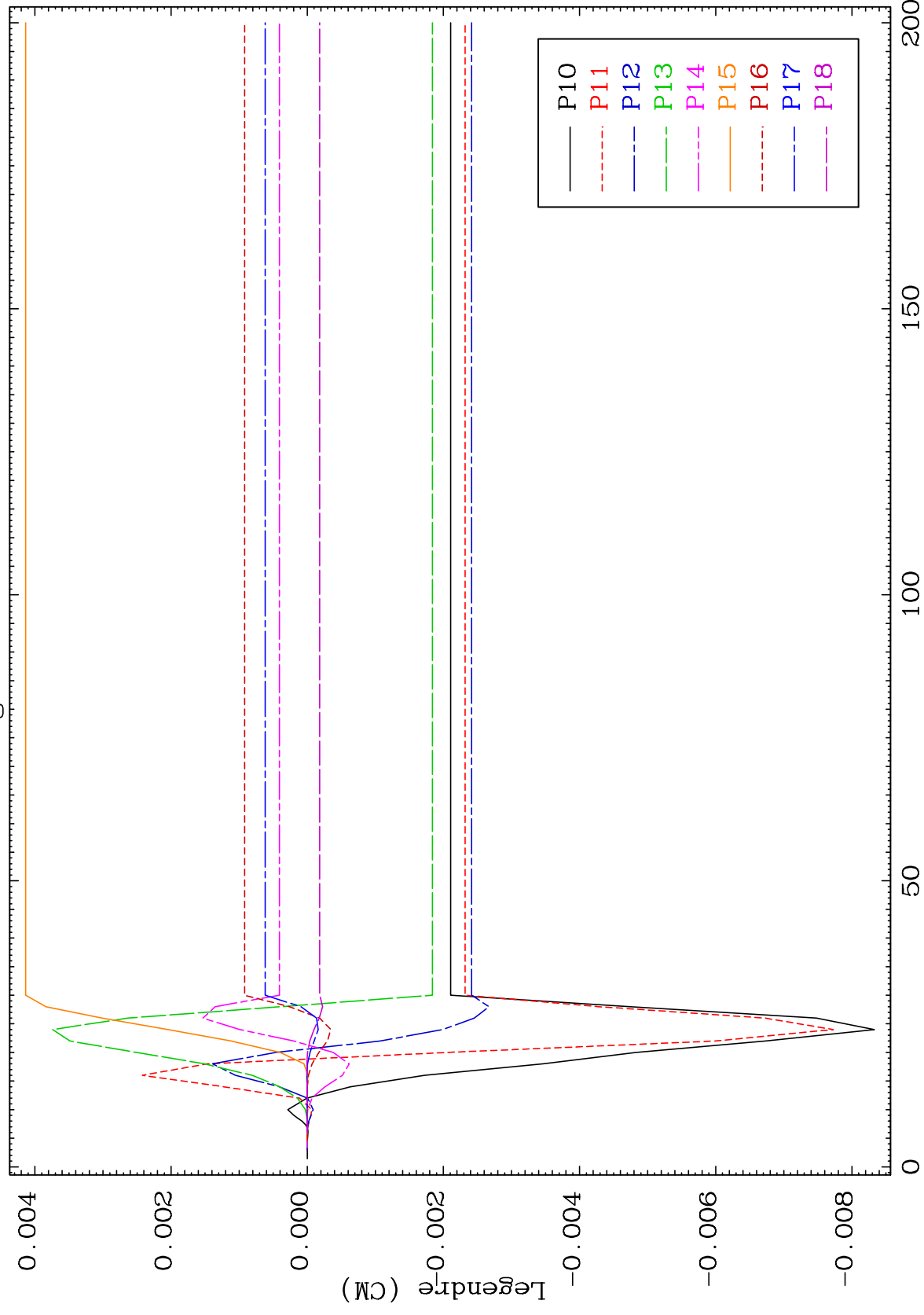
Incident Energy (MeV)

101

MAT 5616

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

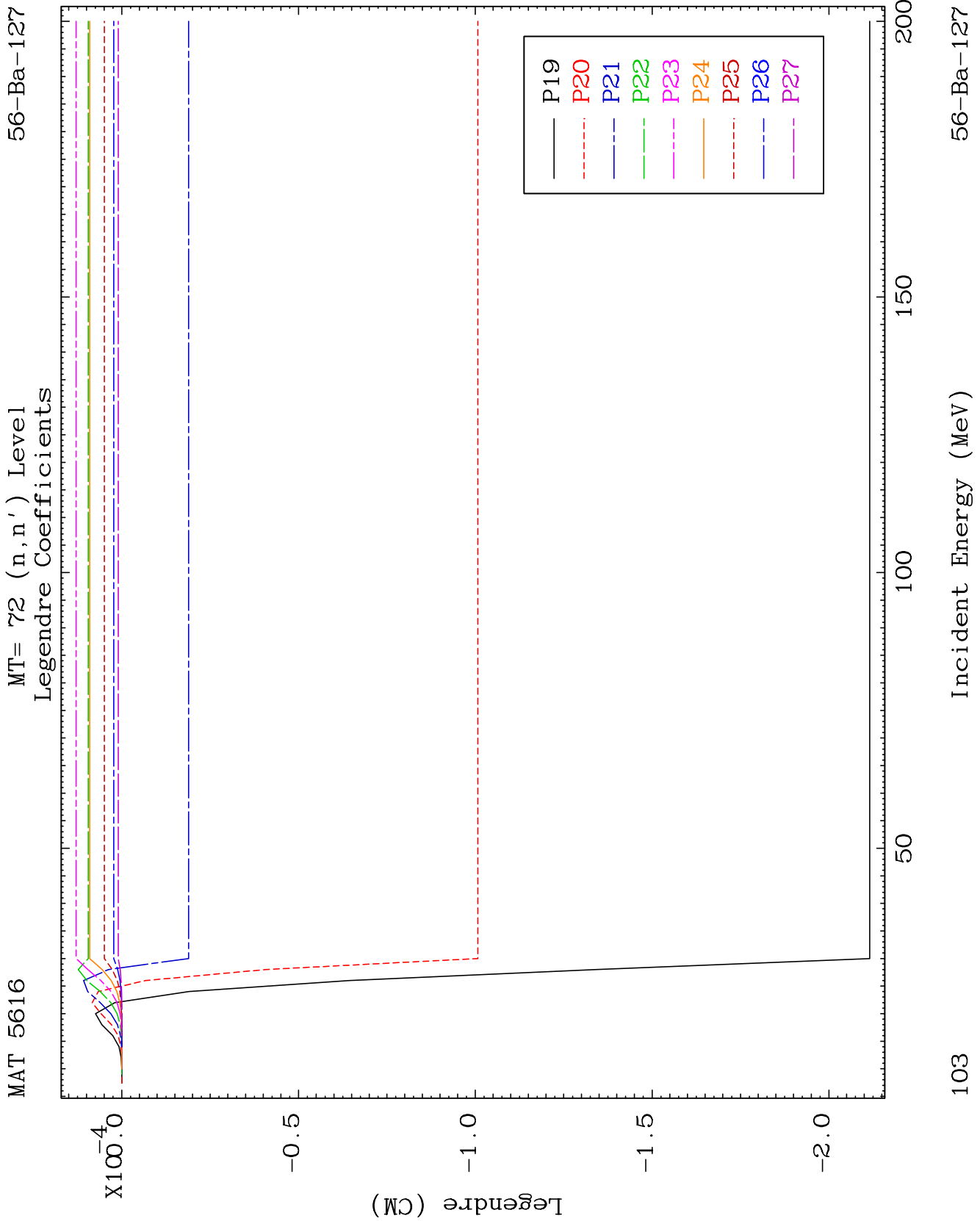
56-Ba-127



102

Incident Energy (MeV)

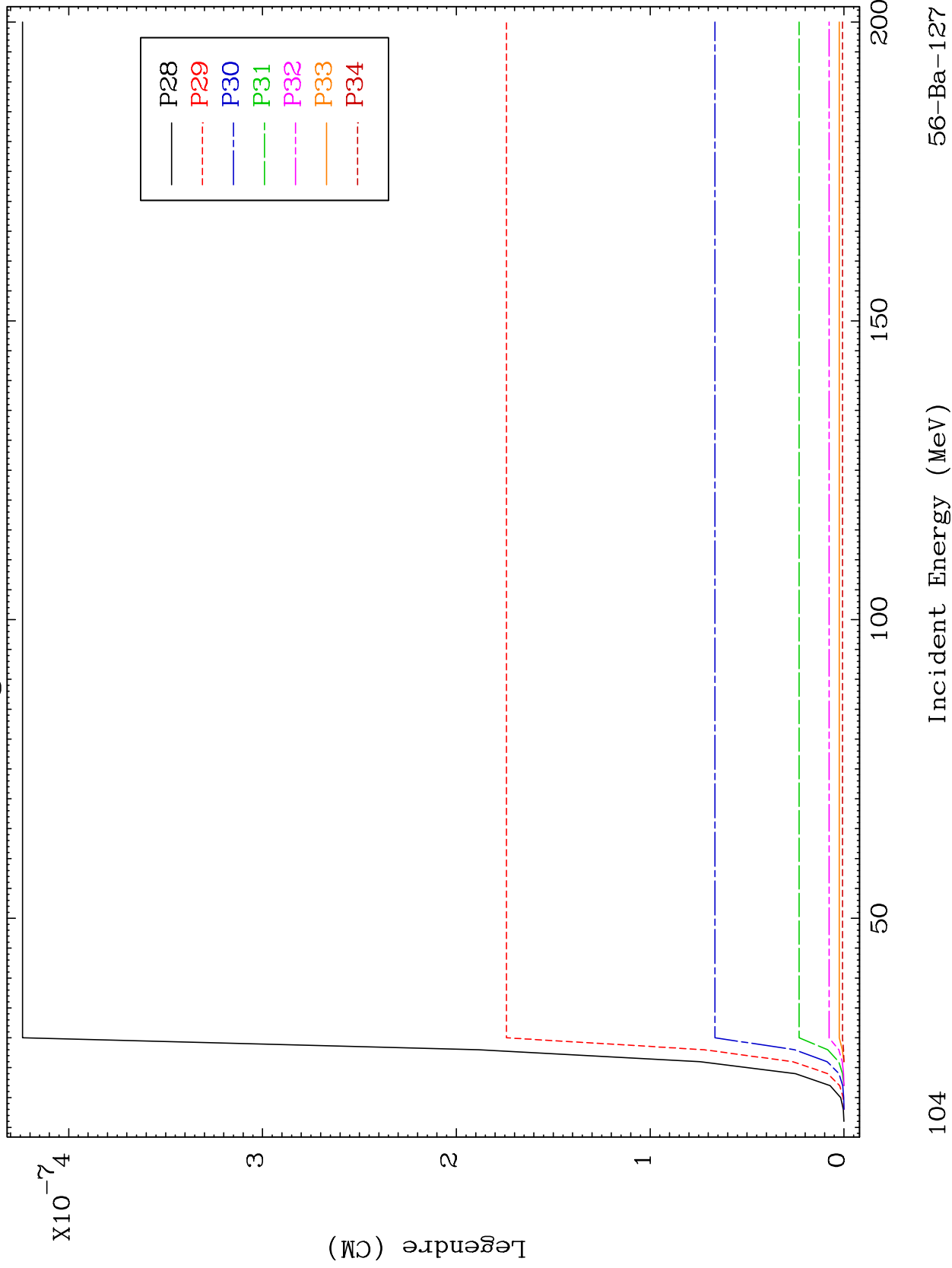
56-Ba-127



MAT 5616

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

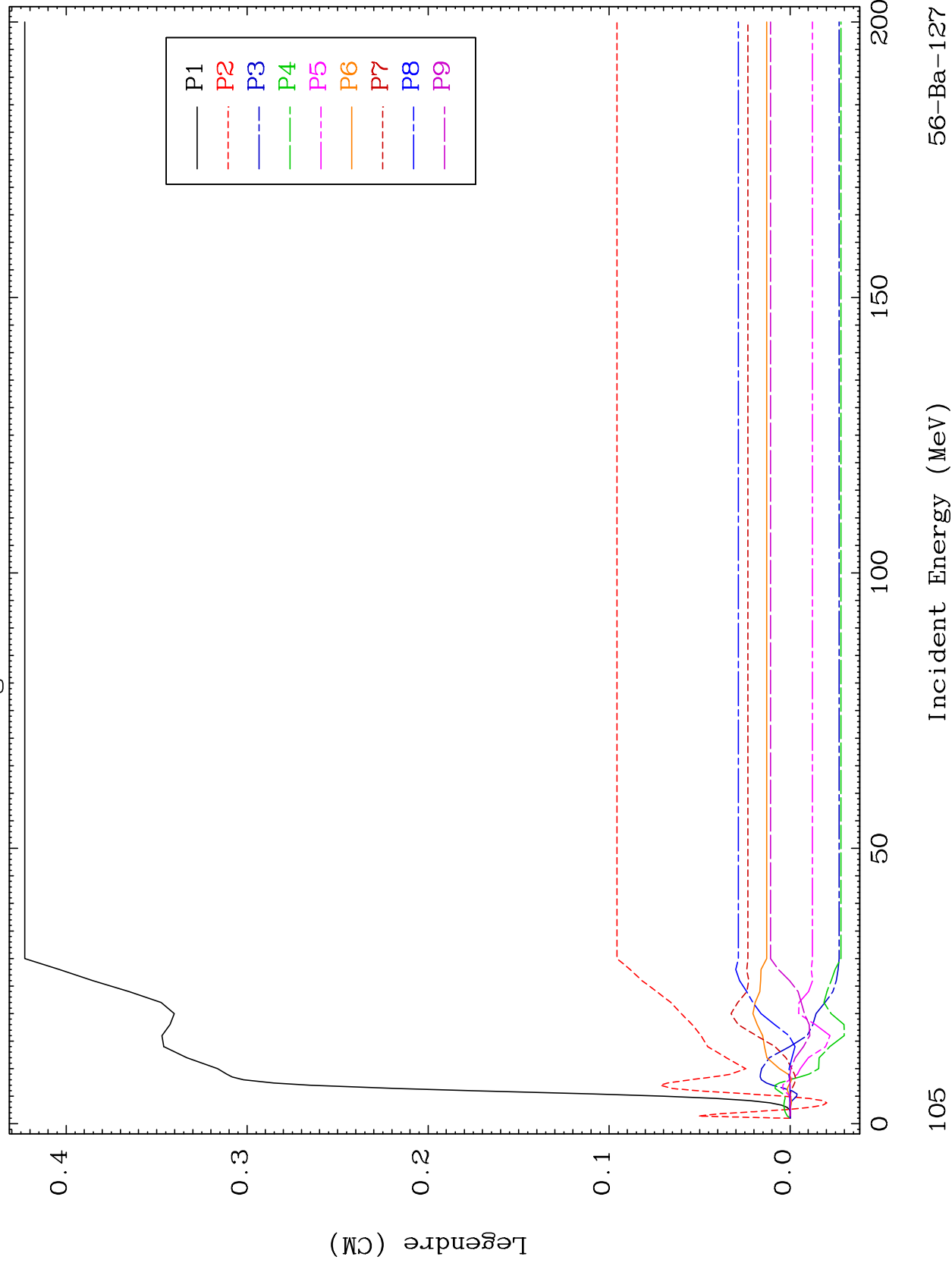
56-Ba-127



MAT 5616

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

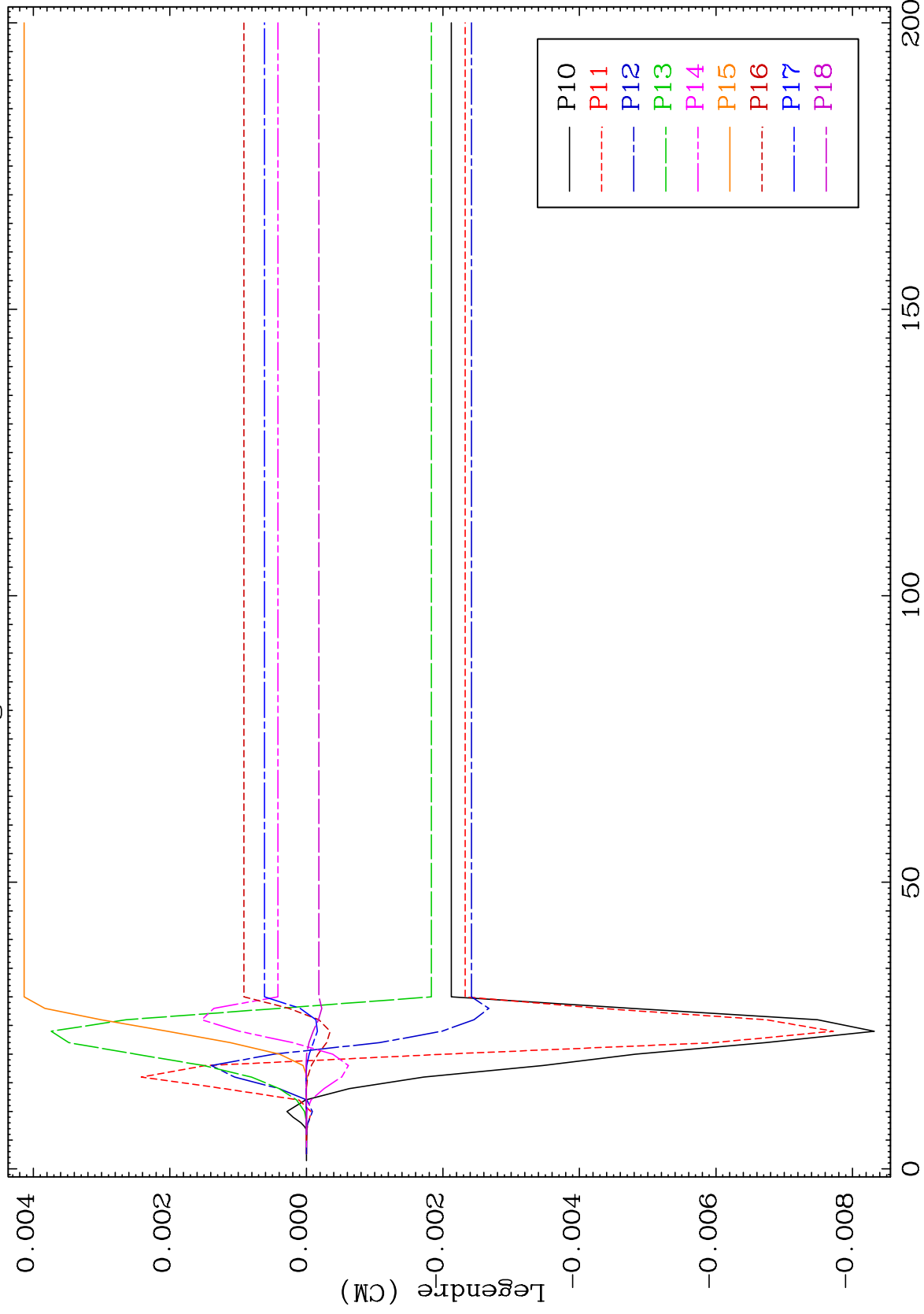
56-Ba-127



MAT 5616

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

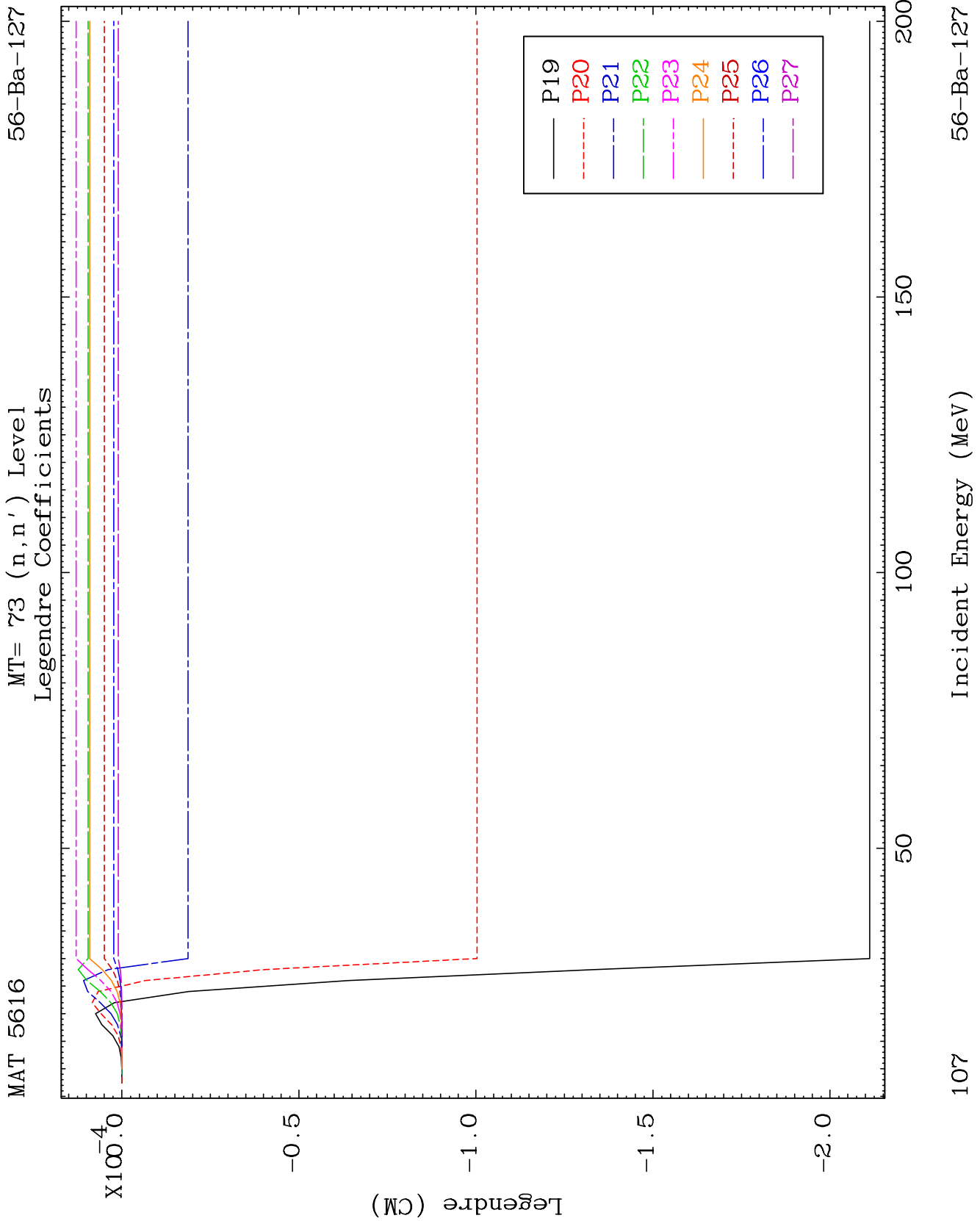
56-Ba-127



106

Incident Energy (MeV)

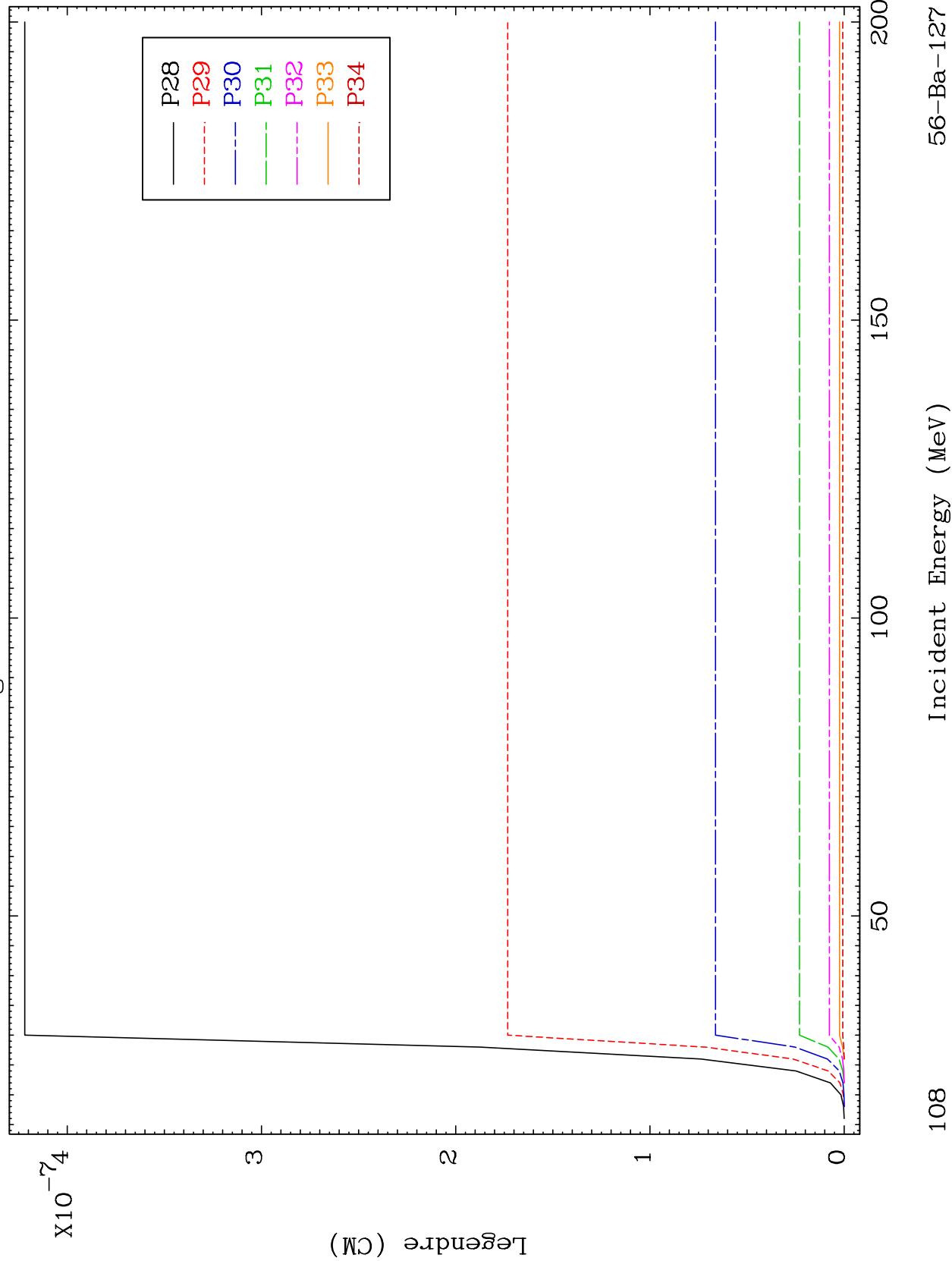
56-Ba-127



MAT 5616

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

56-Ba-127



108

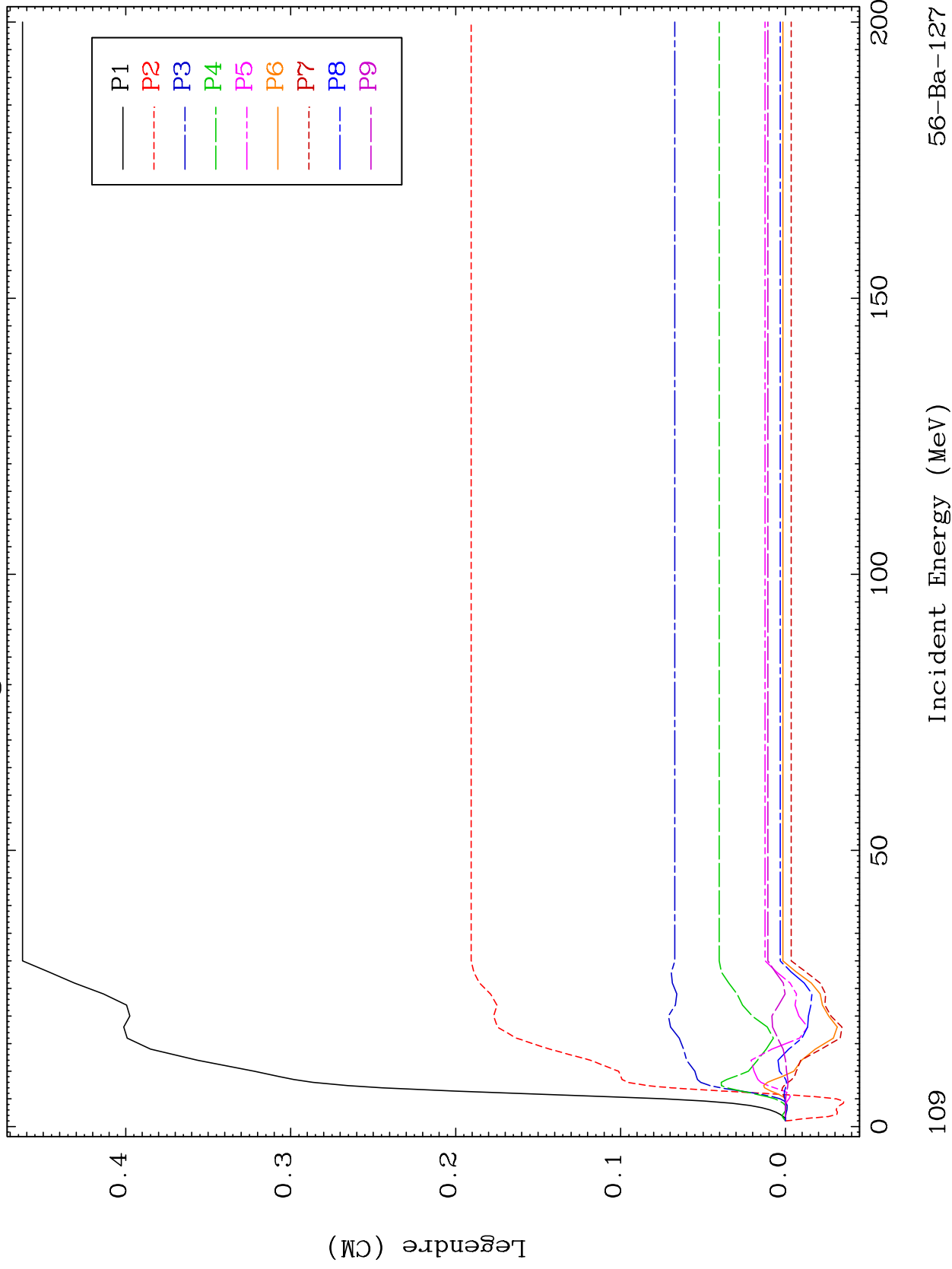
Incident Energy (MeV)

56-Ba-127

MAT 5616

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

56-Ba-127



56-Ba-127

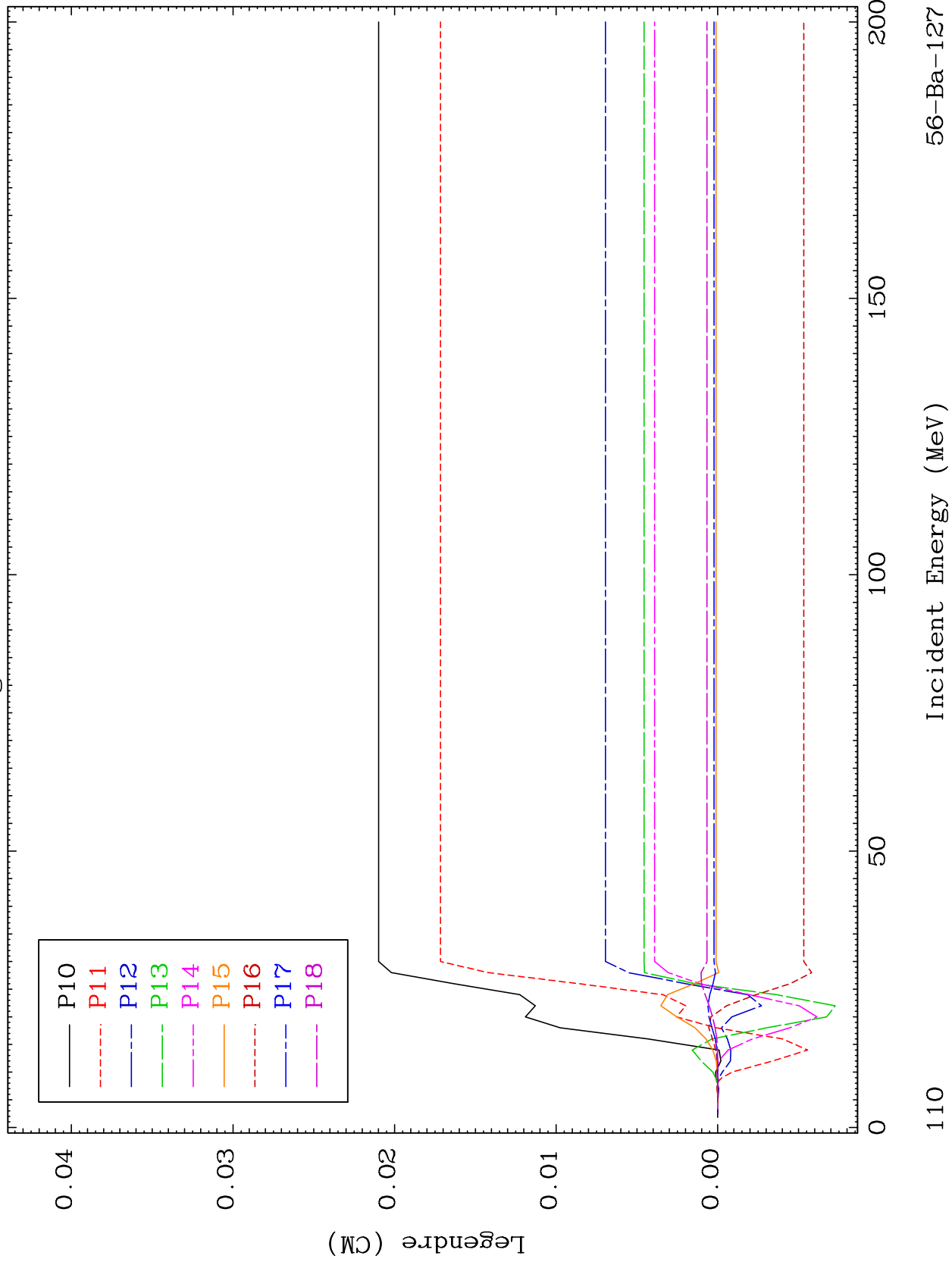
Incident Energy (MeV)

109

MAT 5616

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

56-Ba-127



56-Ba-127

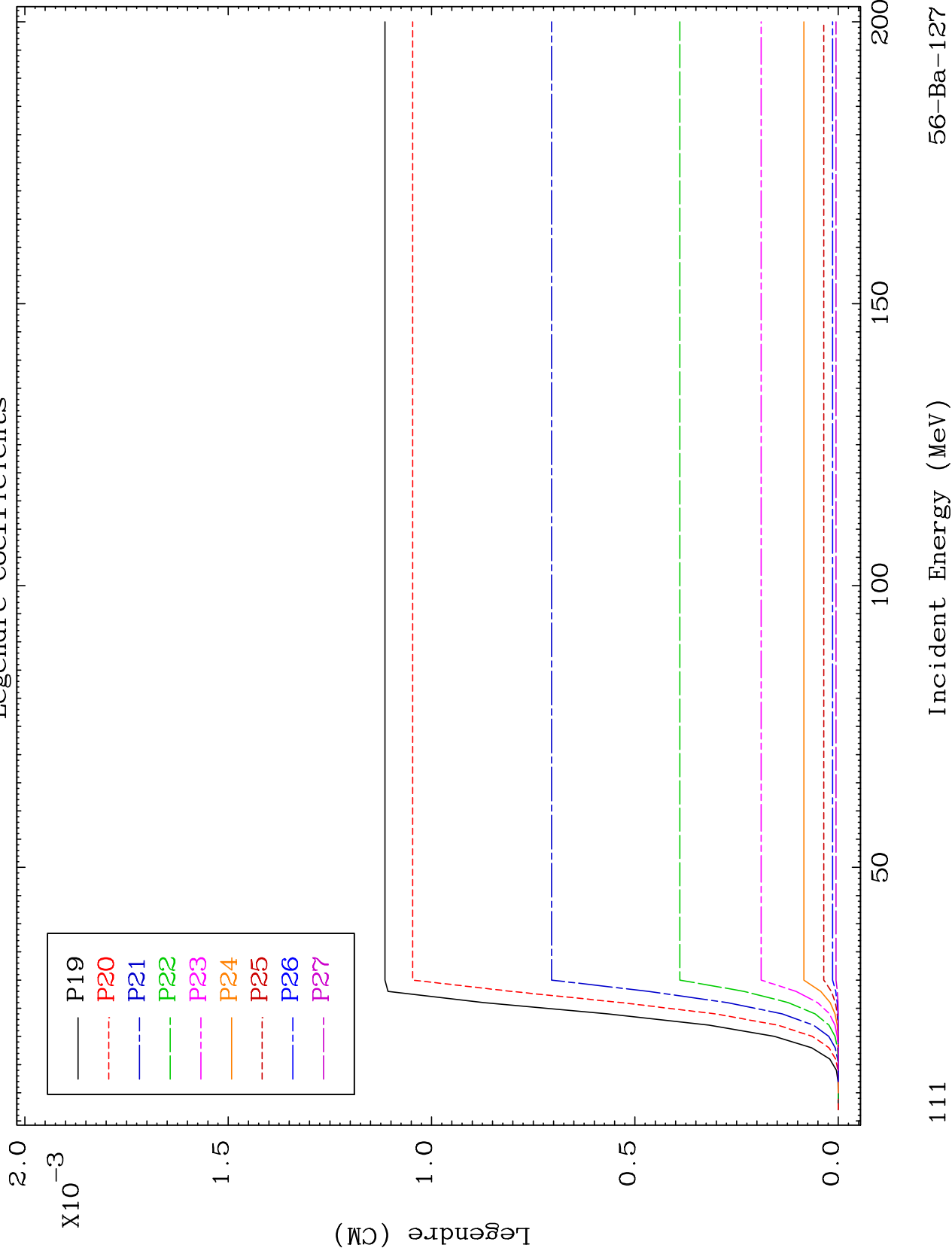
Incident Energy (MeV)

110

MAT 5616

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

56-Ba-127

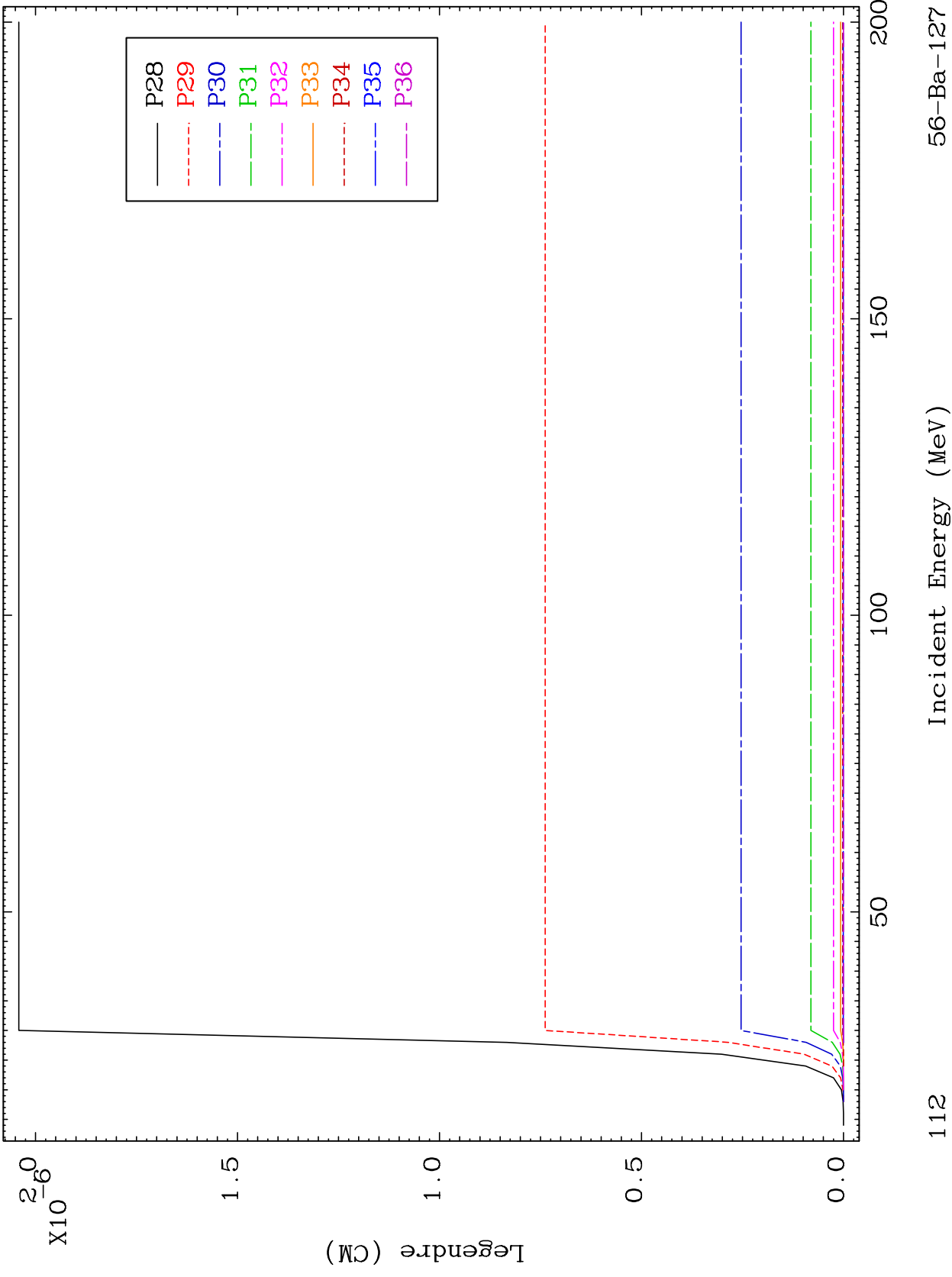


111

MAT 5616

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

56-Ba-127



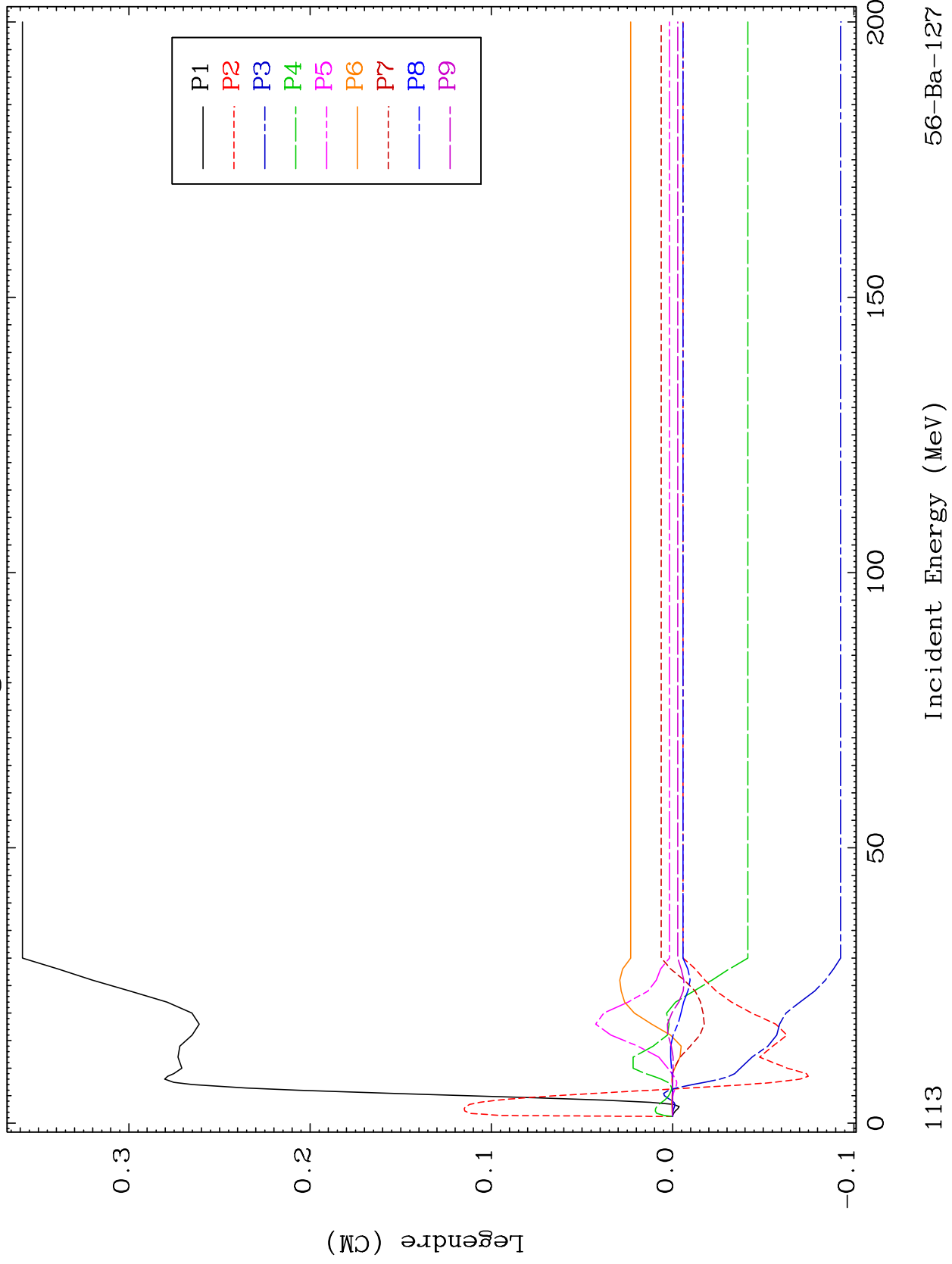
112

56-Ba-127

MAT 5616

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

56-Ba-127



113

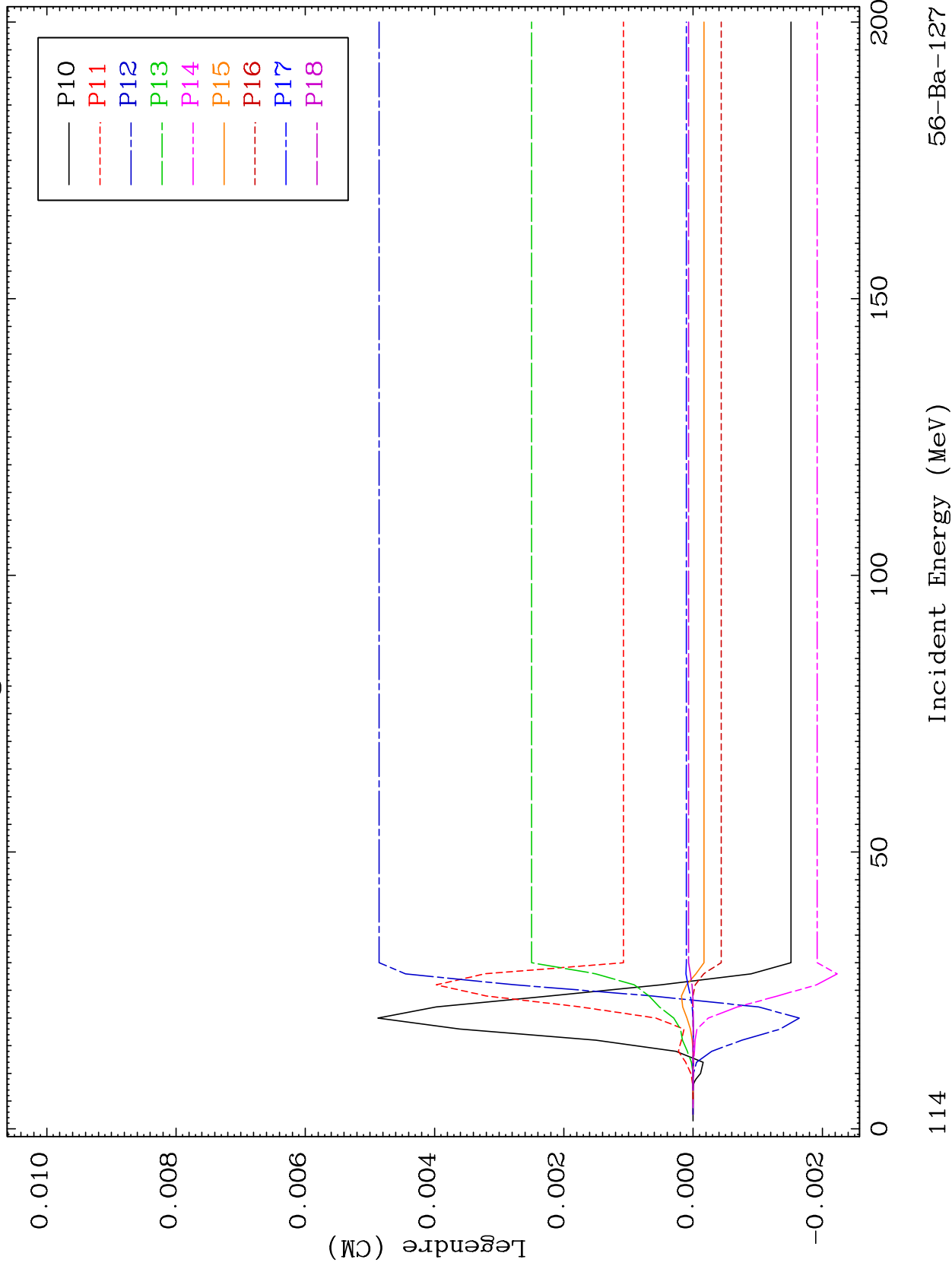
Incident Energy (MeV)

56-Ba-127

MAT 5616

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

56-Ba-127



114

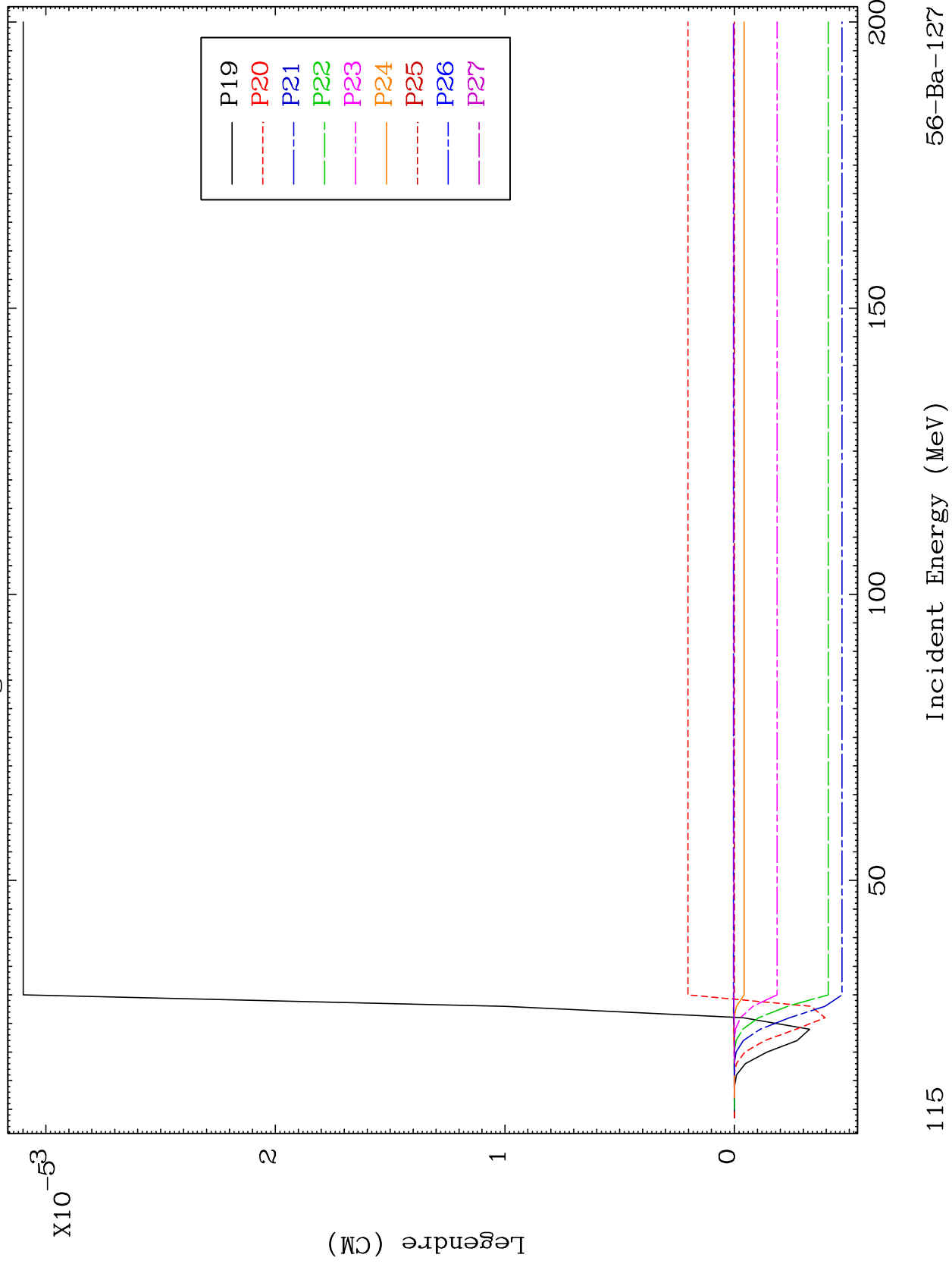
Incident Energy (MeV)

56-Ba-127

MAT 5616

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

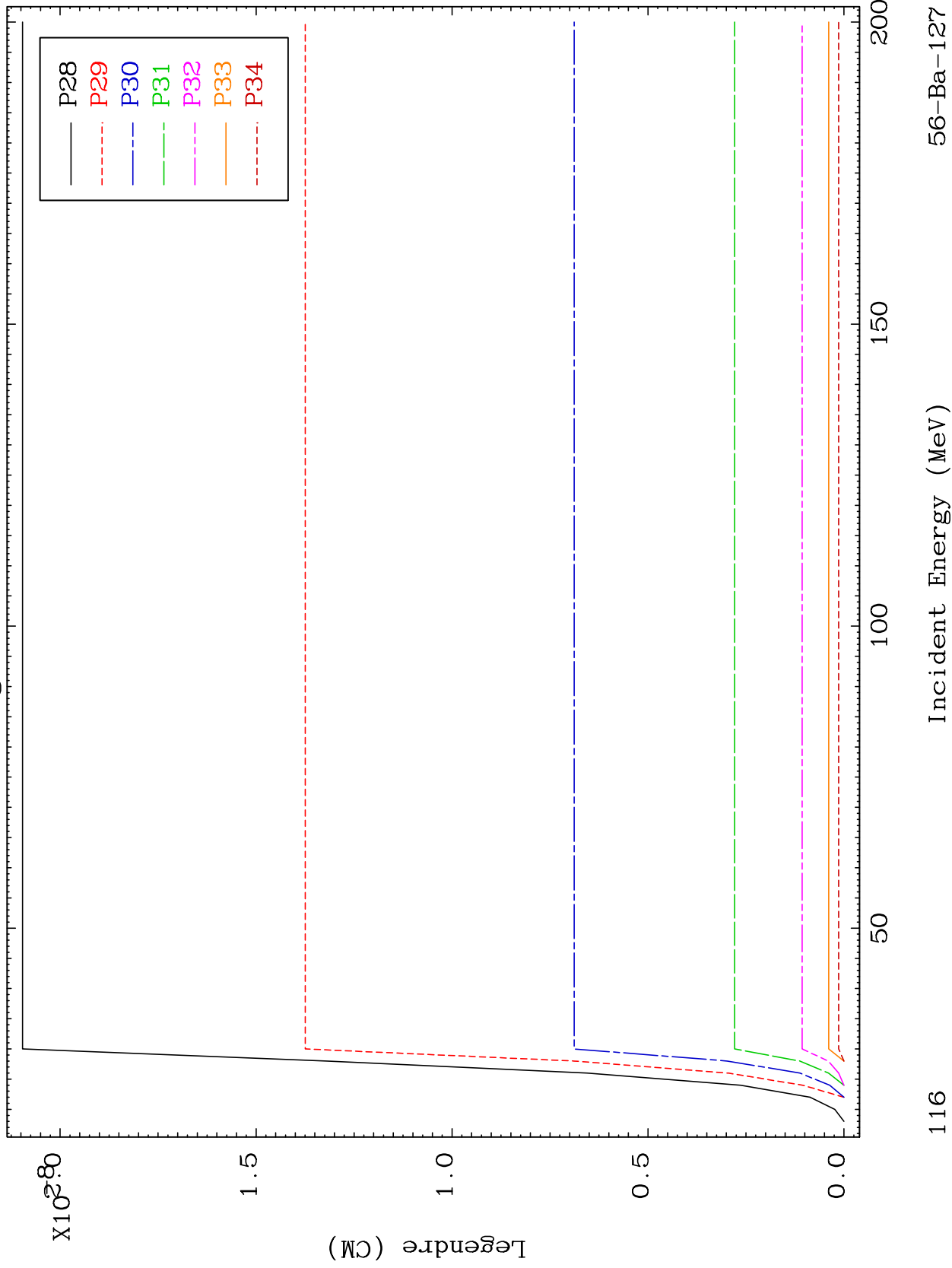
56-Ba-127



MAT 5616

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

56-Ba-127



116

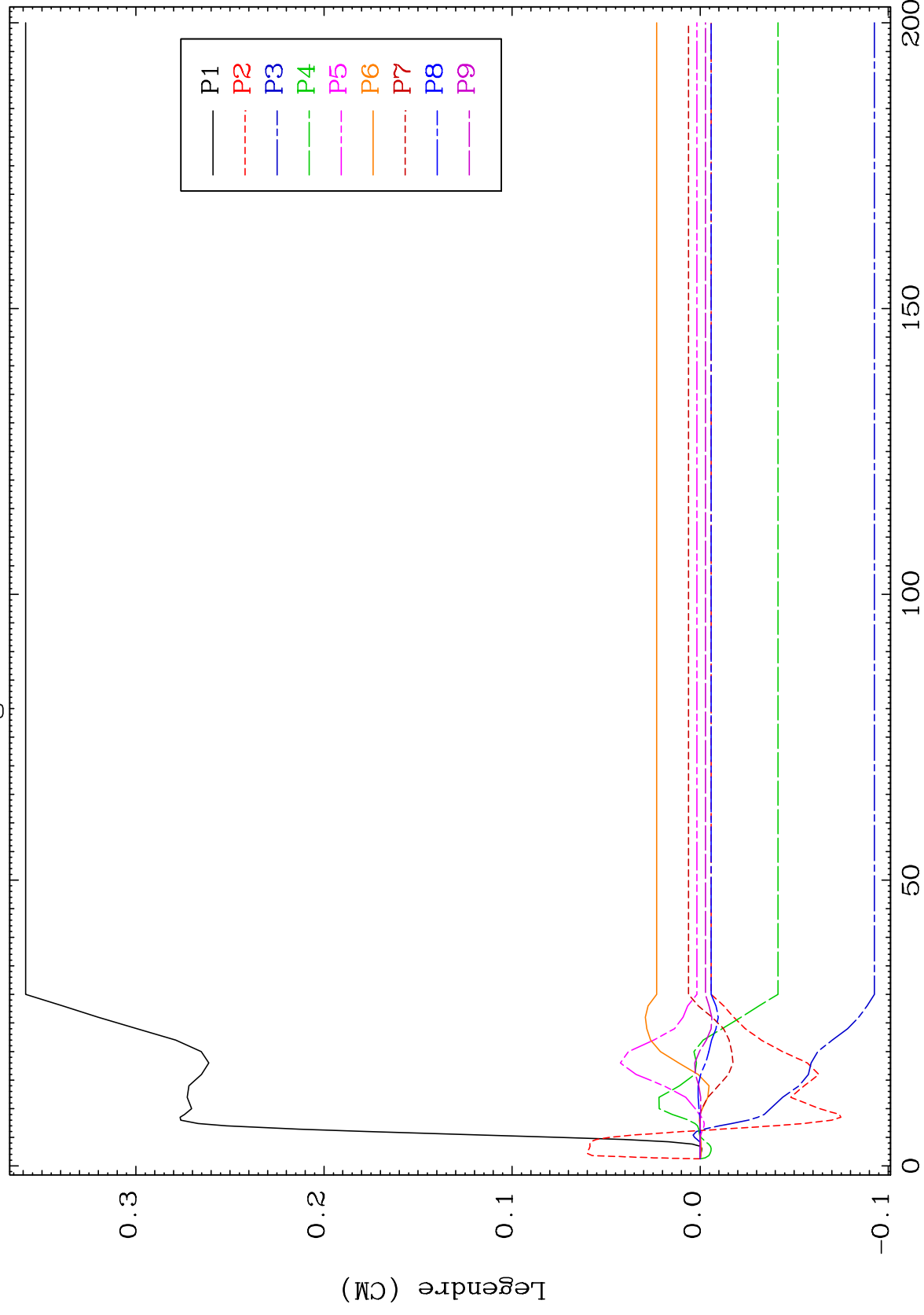
Incident Energy (MeV)

56-Ba-127

MAT 5616

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

56-Ba-127



56-Ba-127

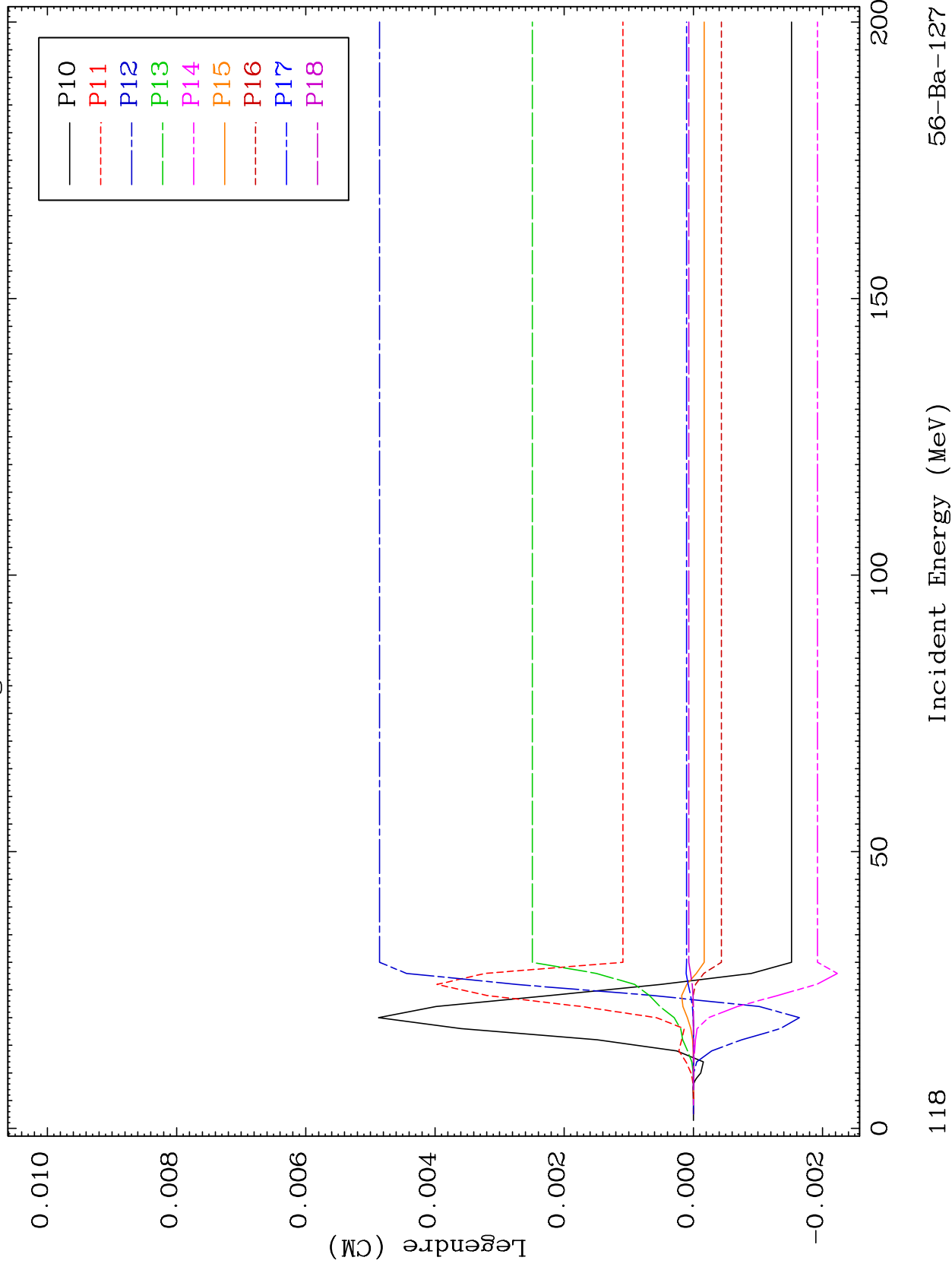
Incident Energy (MeV)

117

MAT 5616

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

56-Ba-127



118

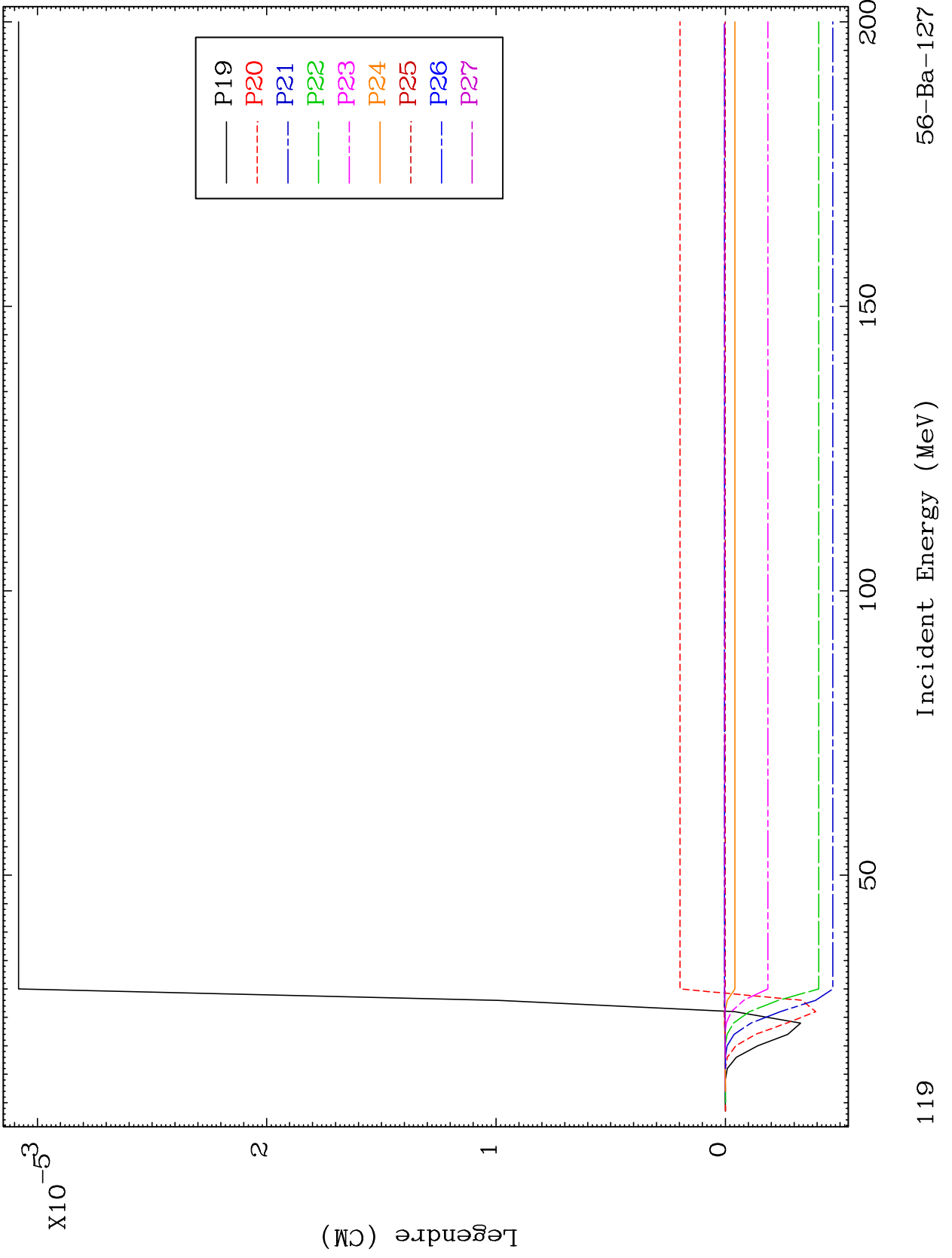
Incident Energy (MeV)

56-Ba-127

MAT 5616

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

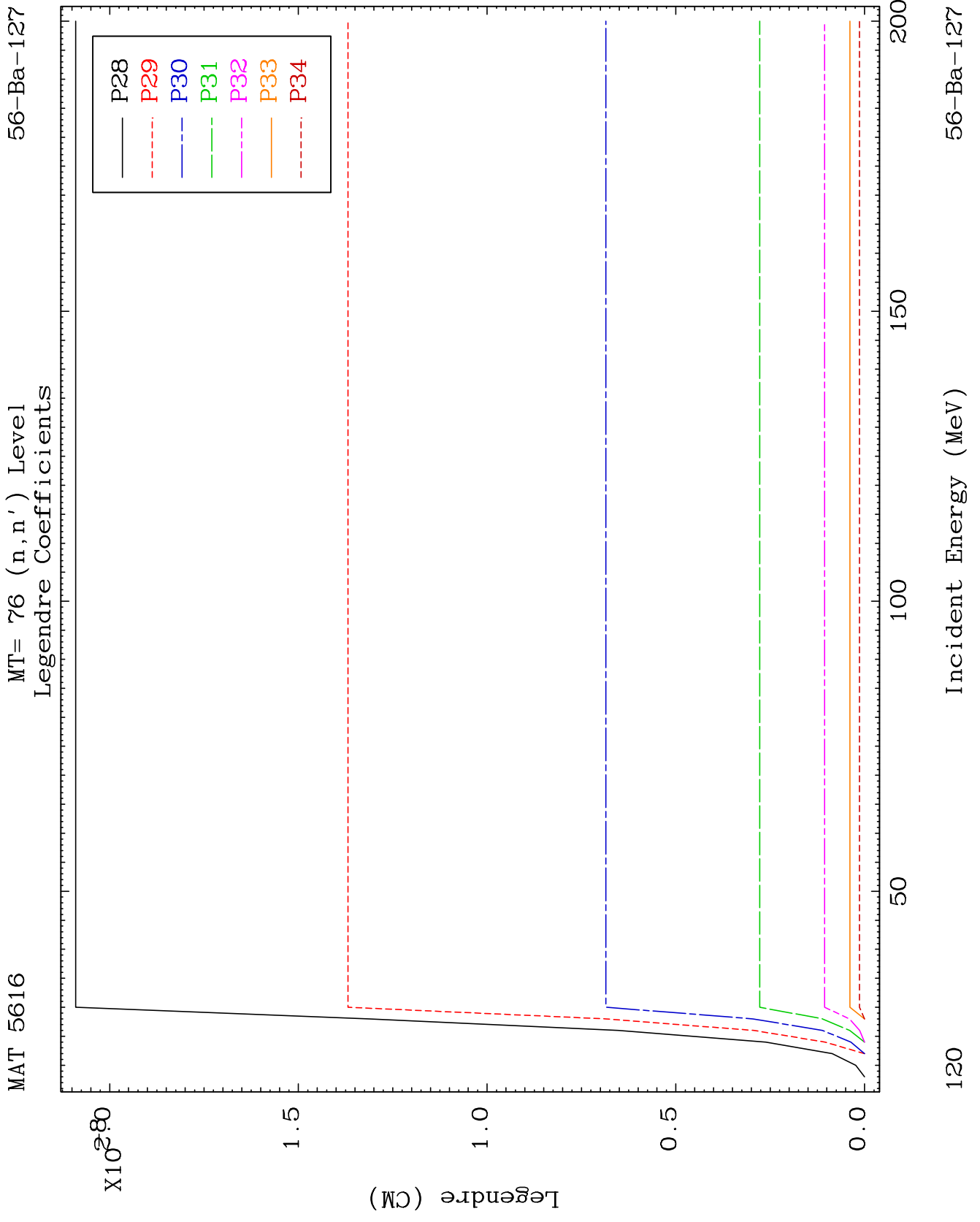
56-Ba-127



119

Incident Energy (MeV)

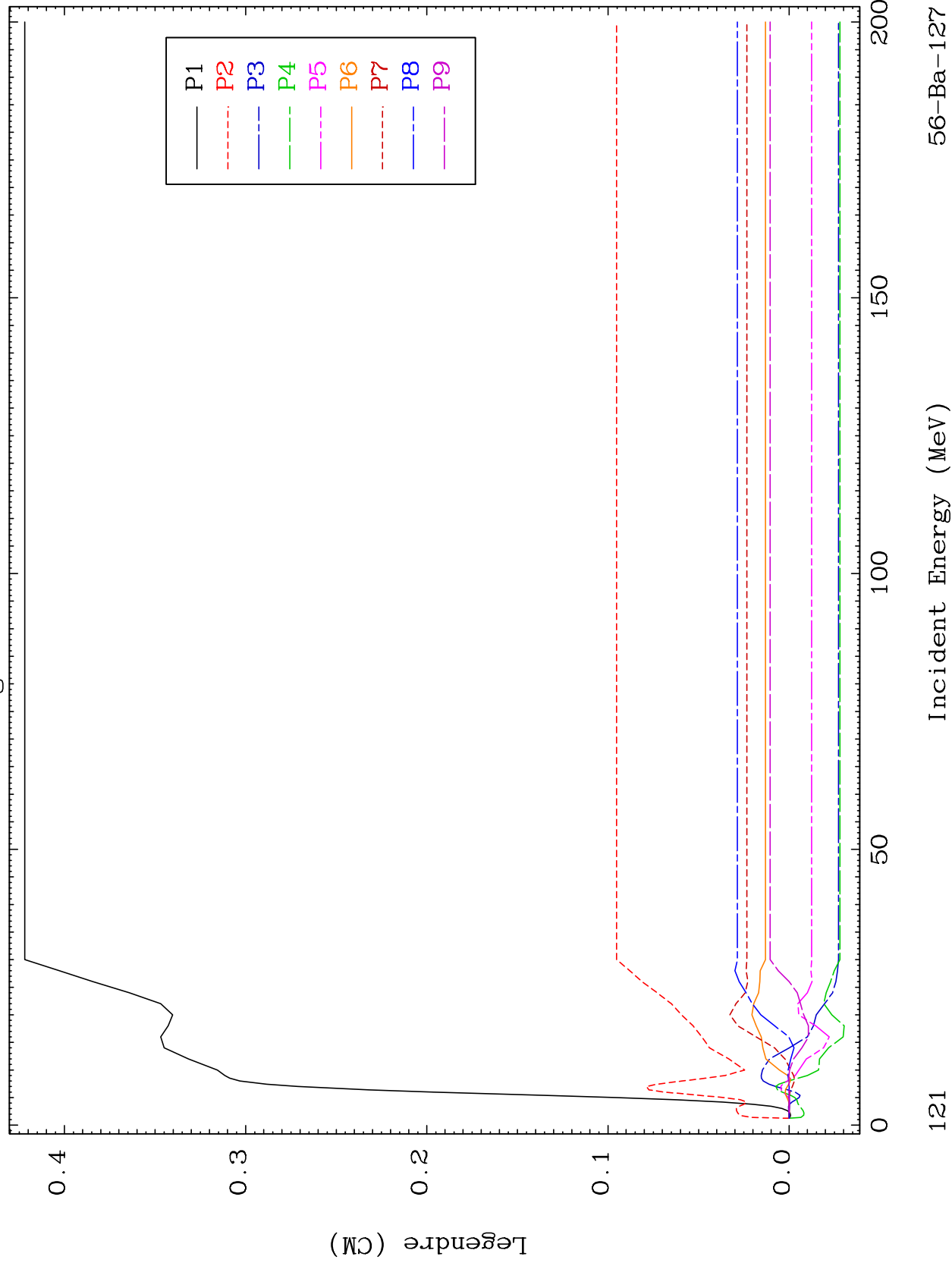
56-Ba-127



MAT 5616

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

56-Ba-127



56-Ba-127

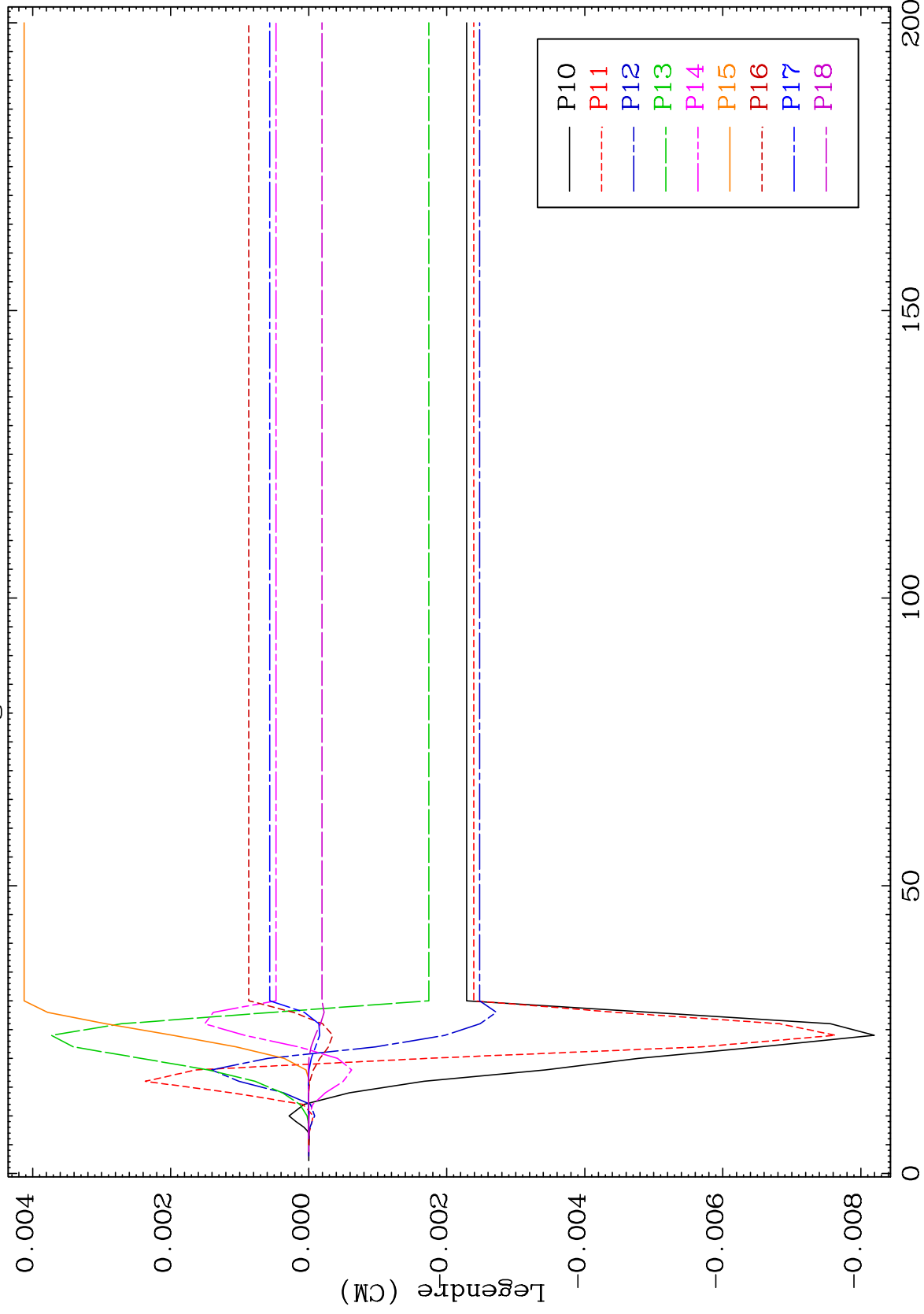
Incident Energy (MeV)

121

MAT 5616

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

56-Ba-127



122

Incident Energy (MeV)

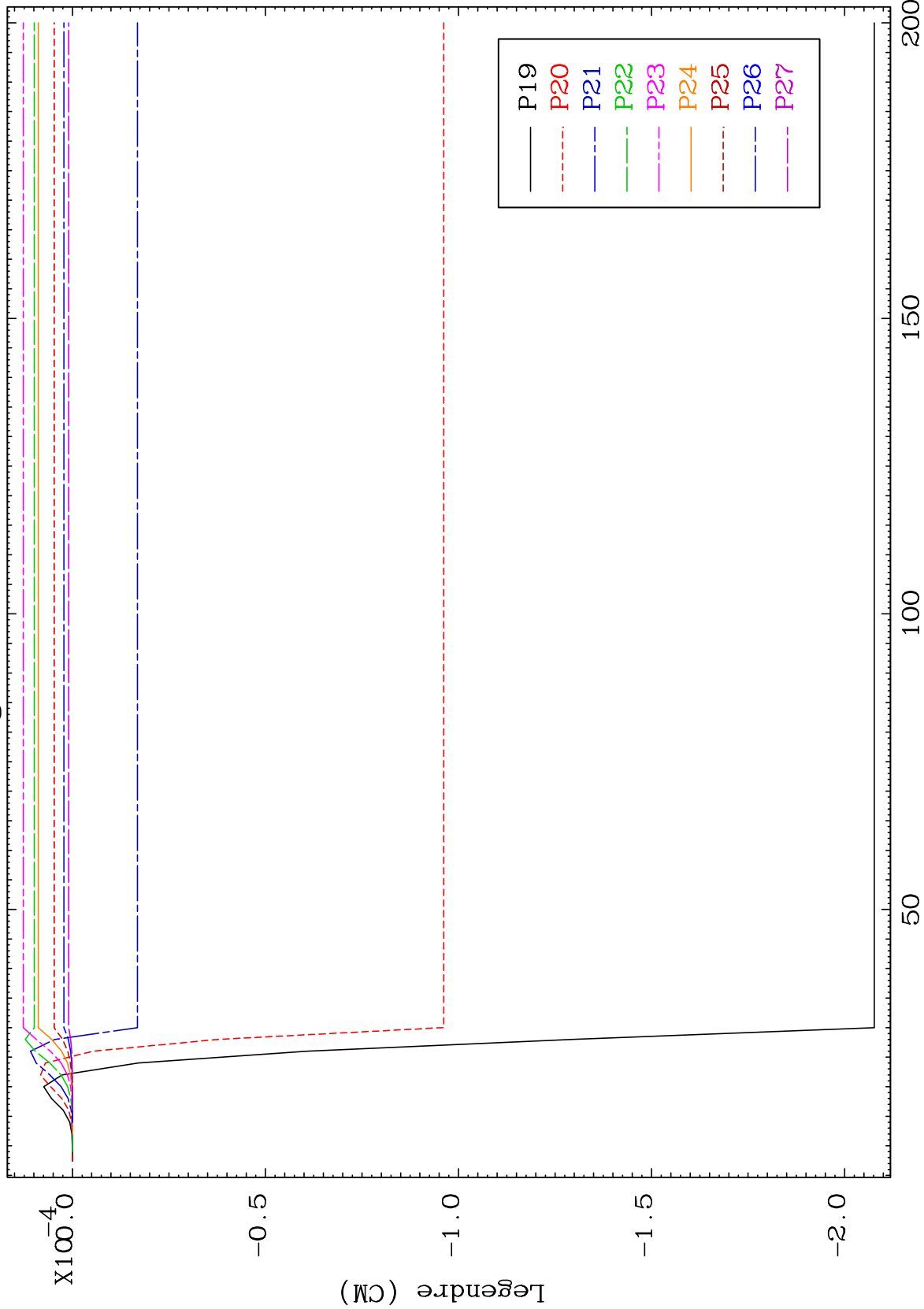
56-Ba-127

MAT 5616

MT= 77 (n,n') Level

56-Ba-127

Legendre Coefficients



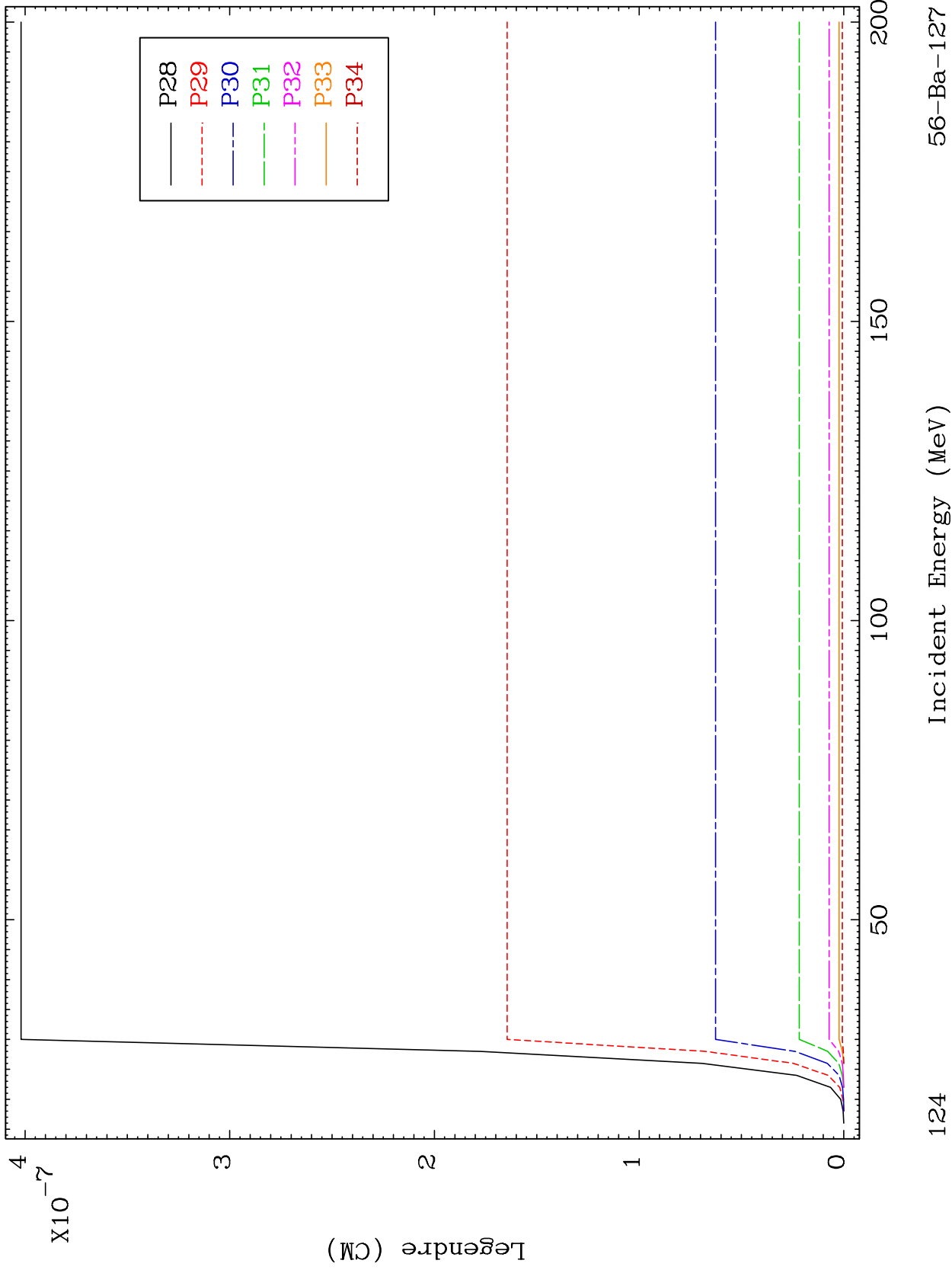
123

56-Ba-127

MAT 5616

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

56-Ba-127



124

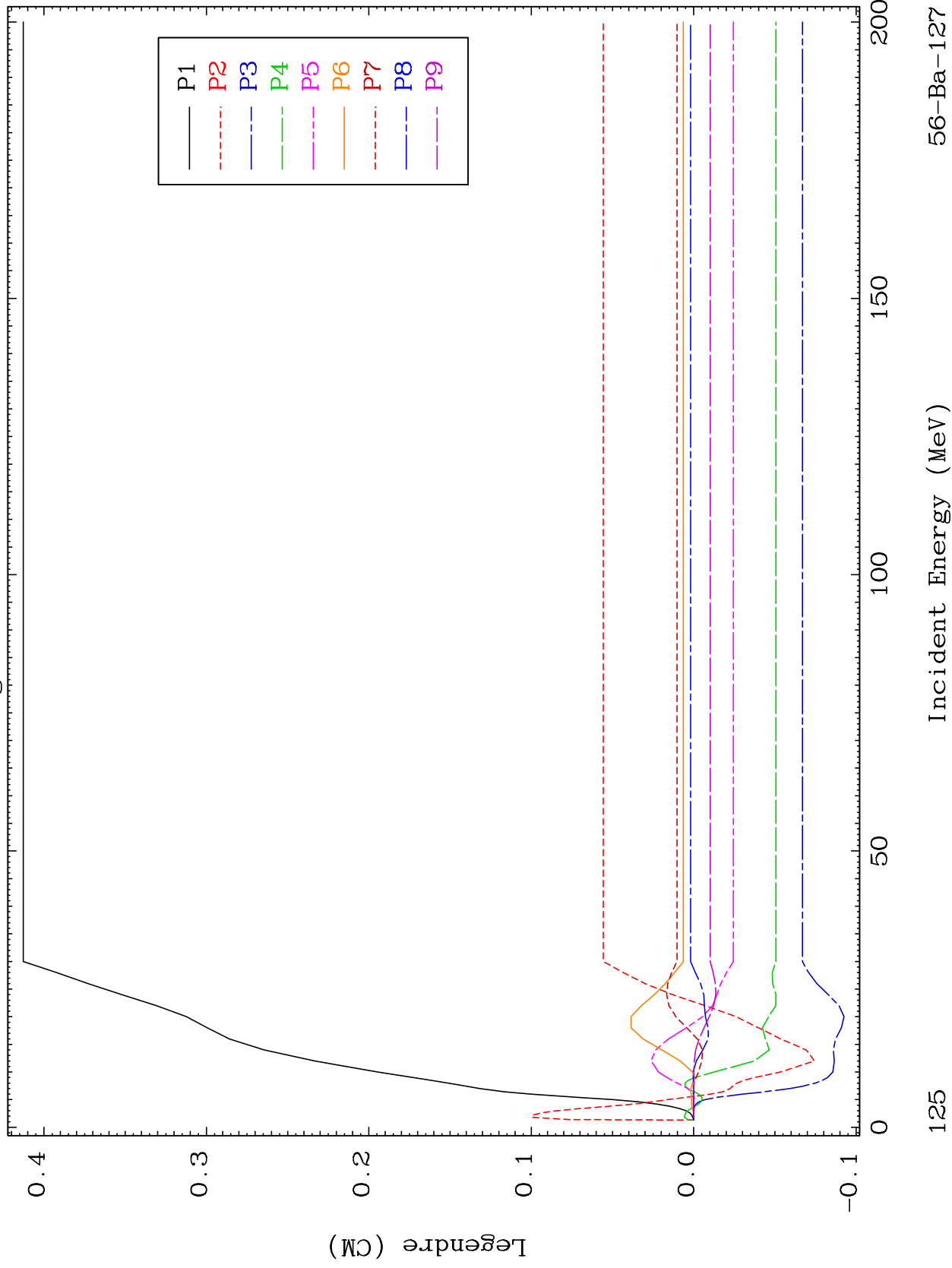
Incident Energy (MeV)

56-Ba-127

MAT 5616

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

56-Ba-127



56-Ba-127

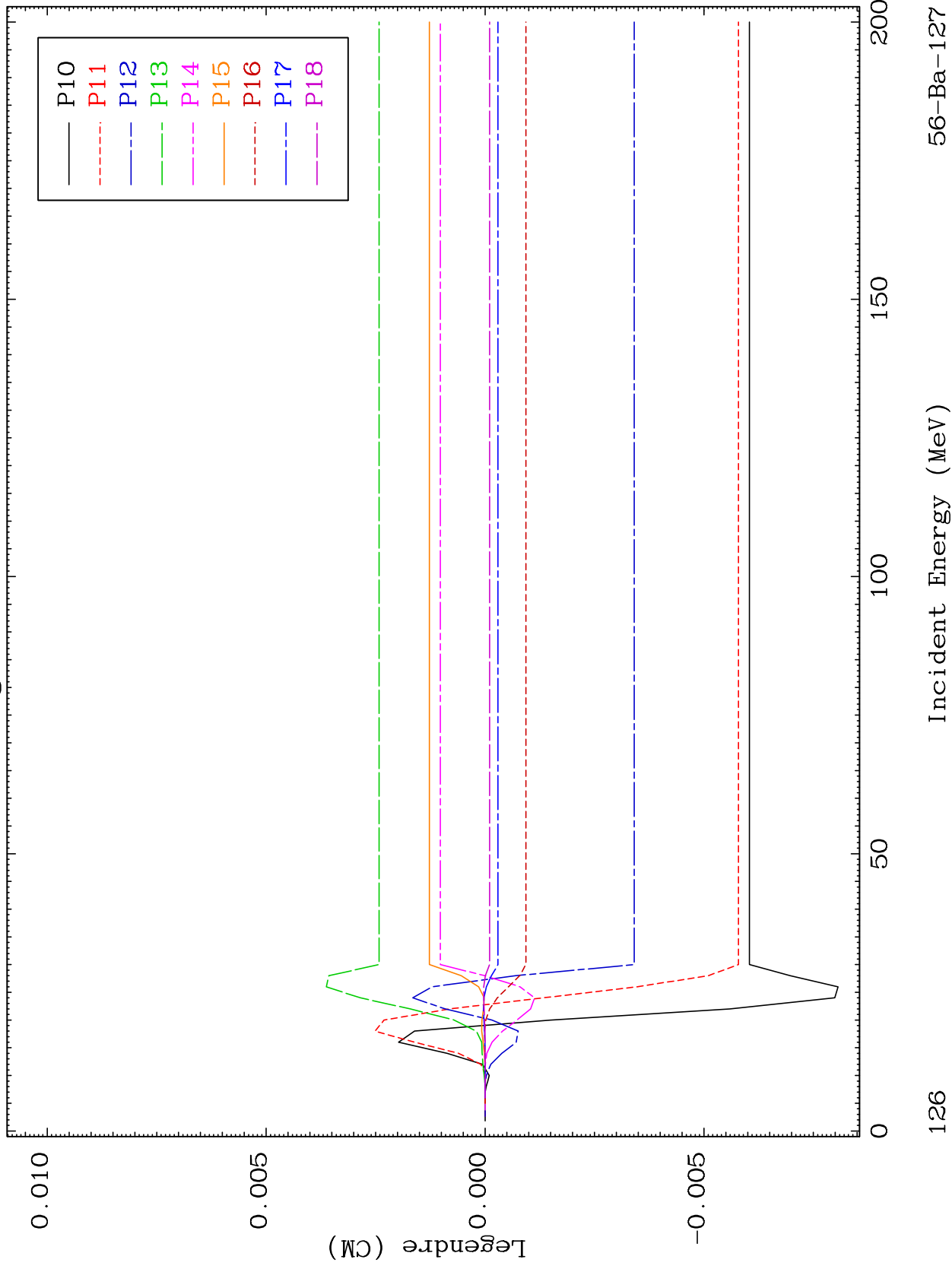
Incident Energy (MeV)

125

MAT 5616

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

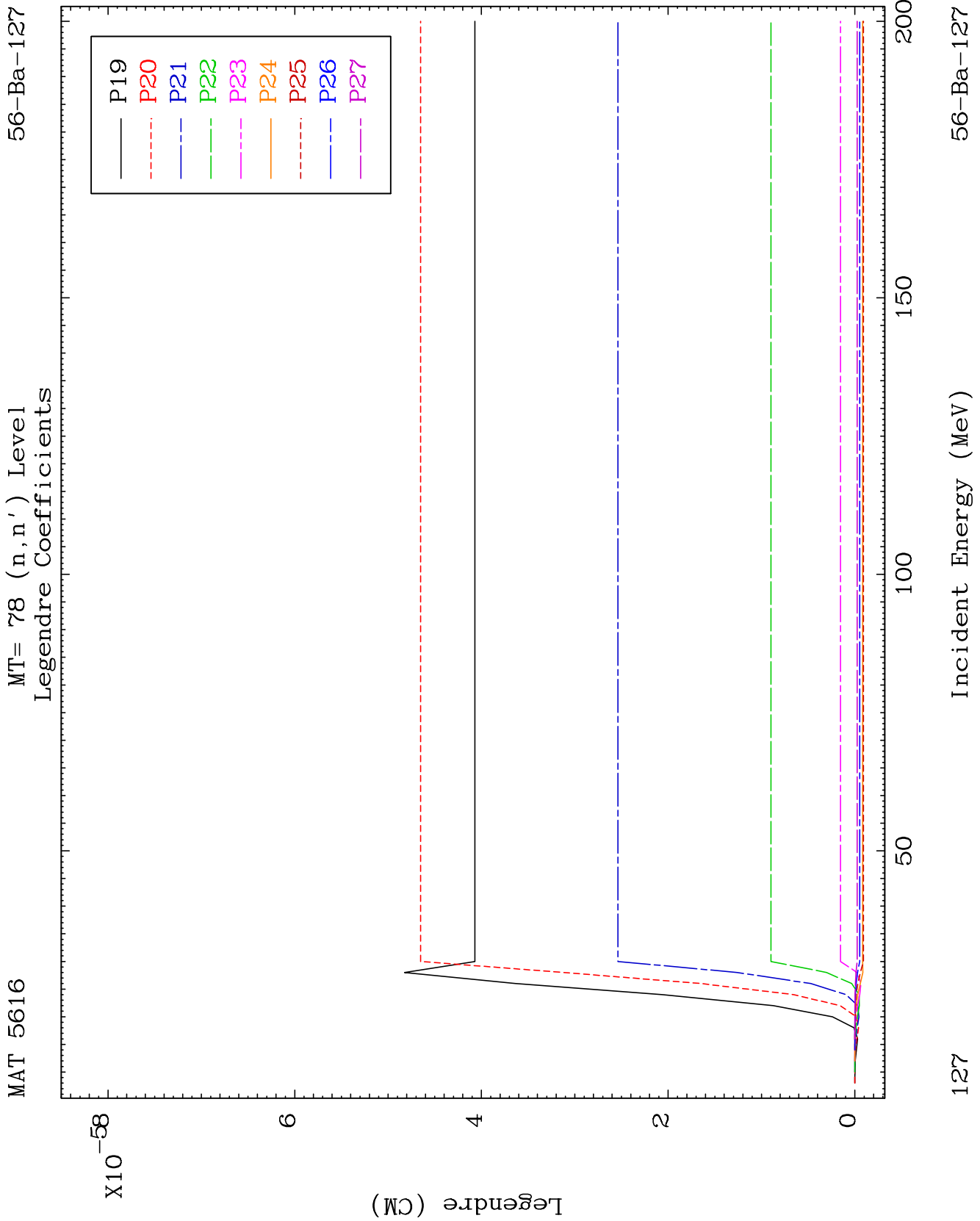
56-Ba-127

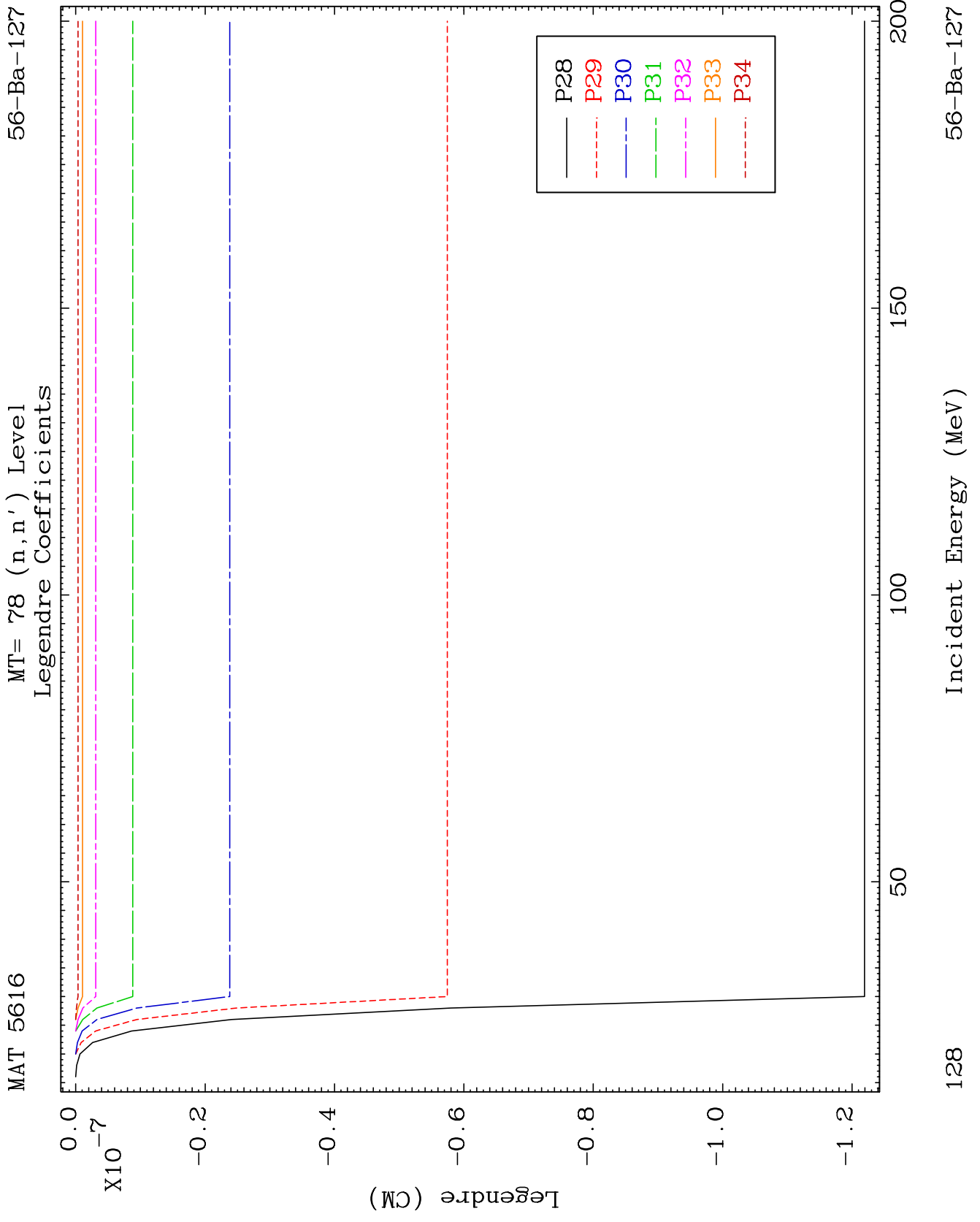


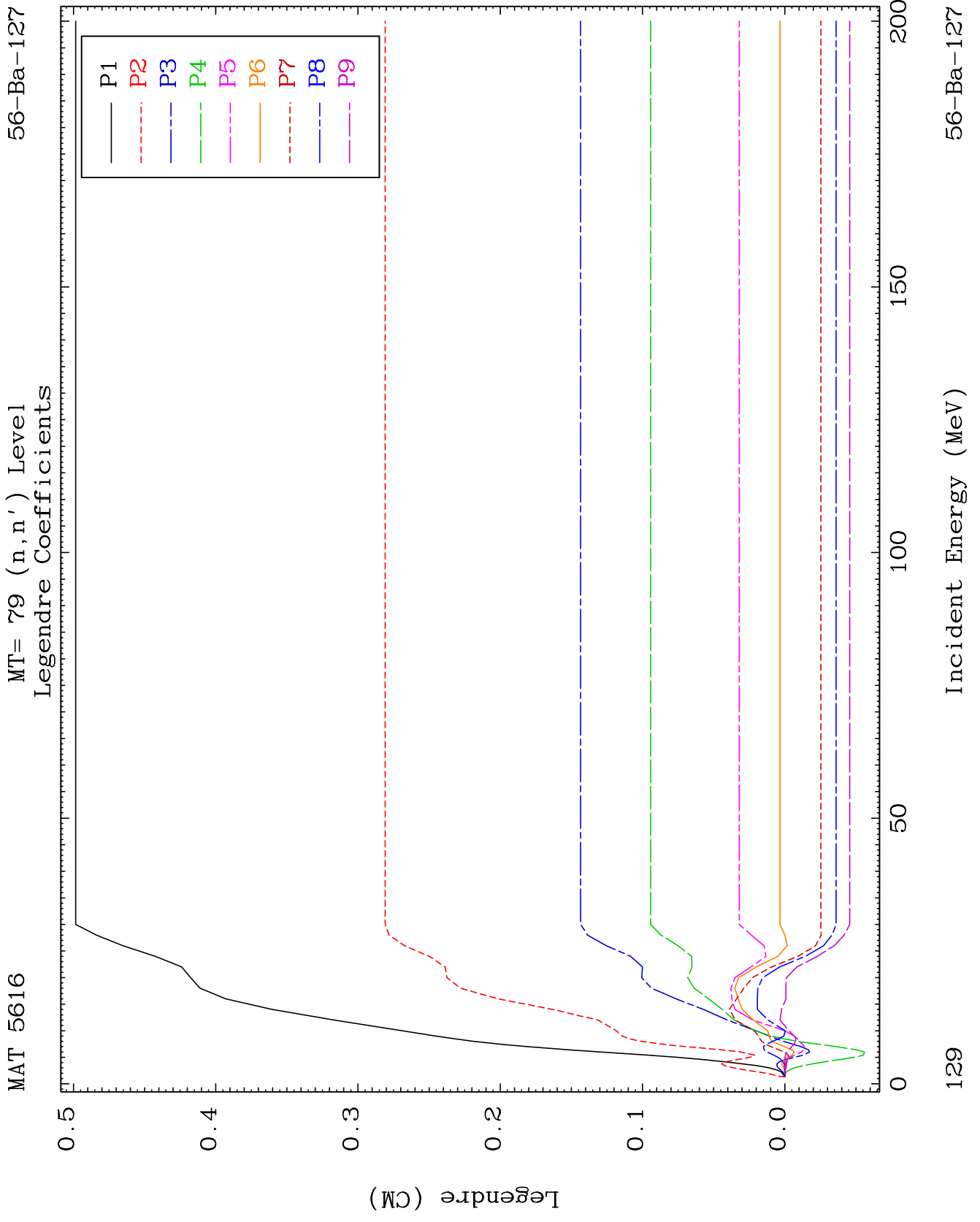
56-Ba-127

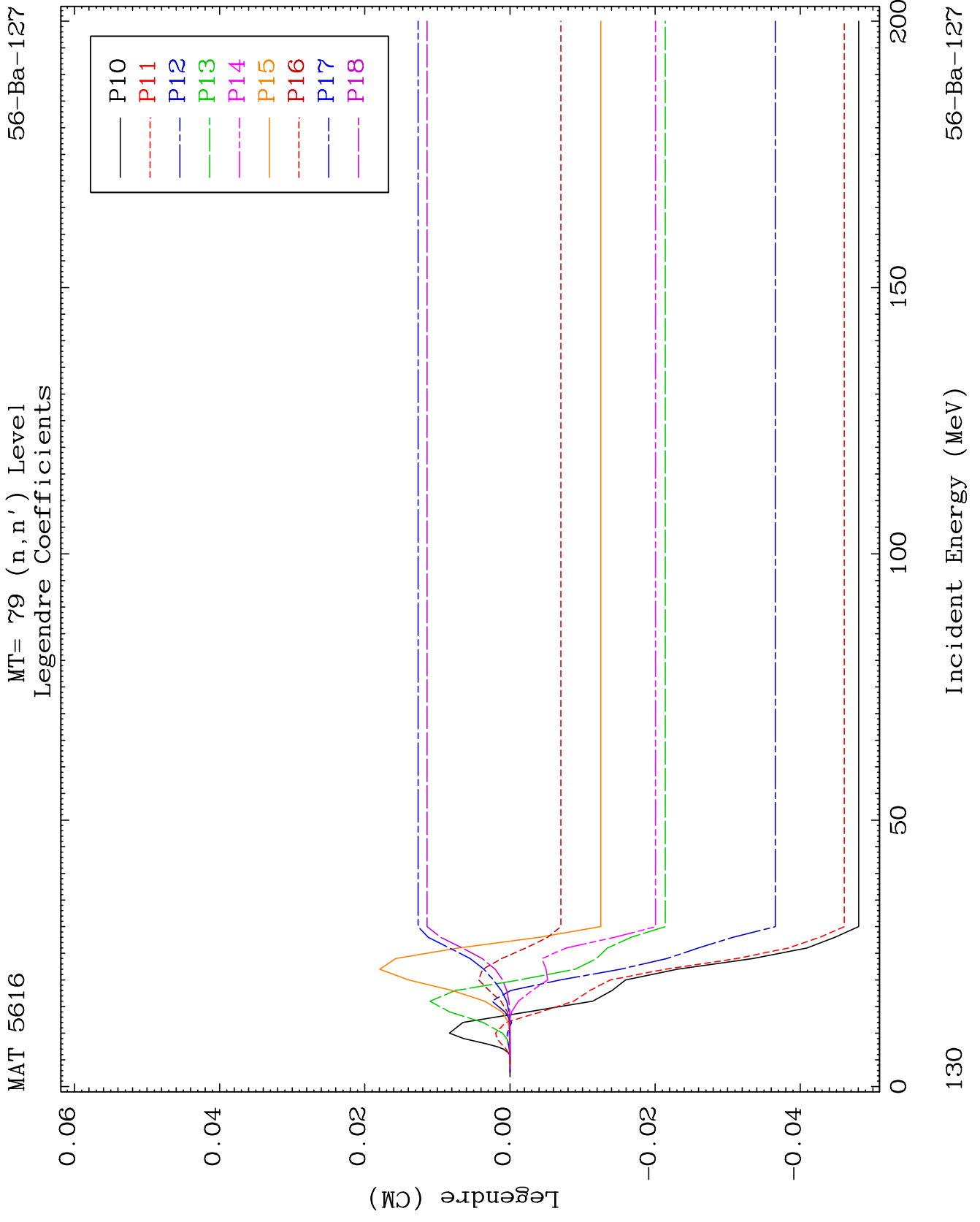
Incident Energy (MeV)

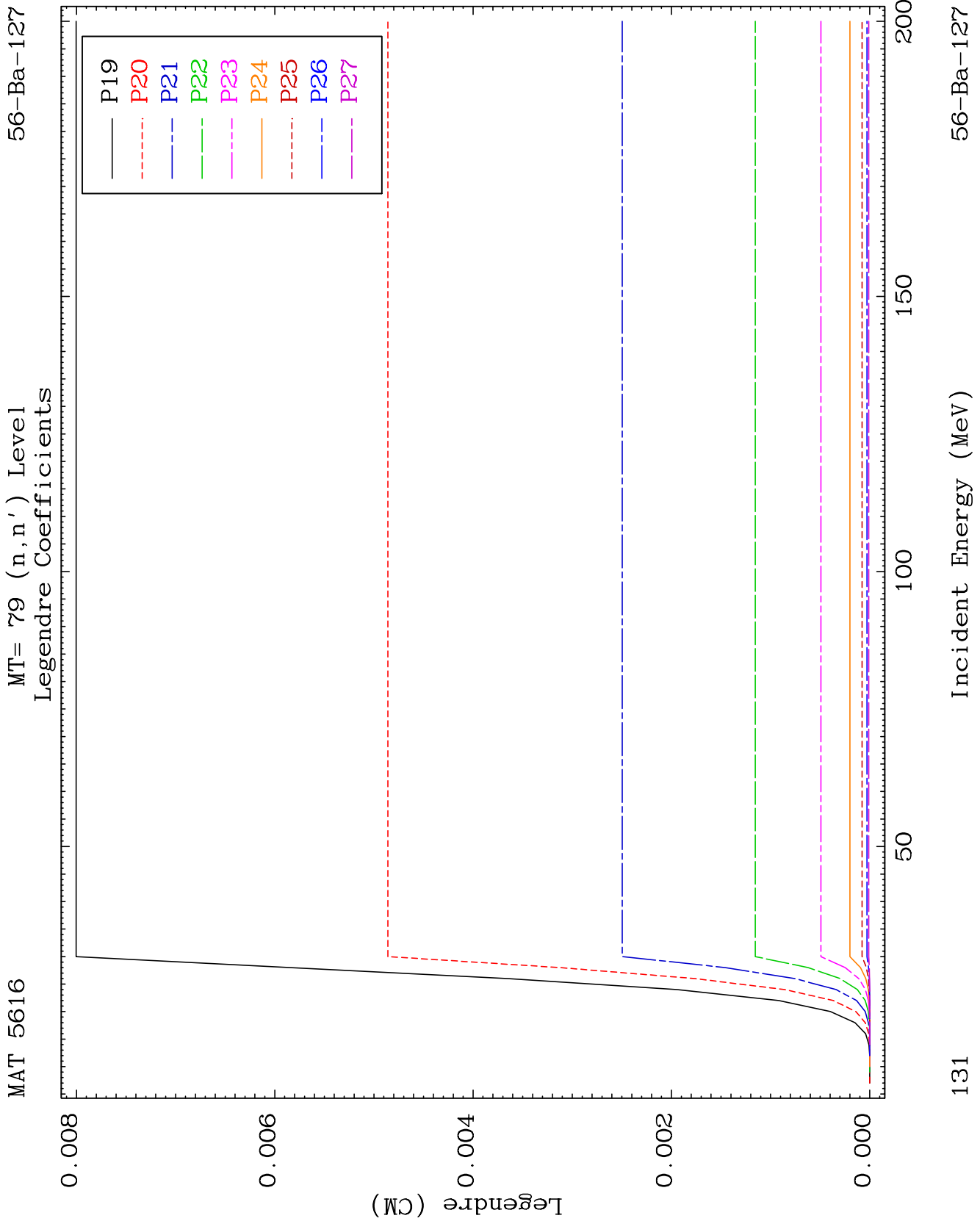
126







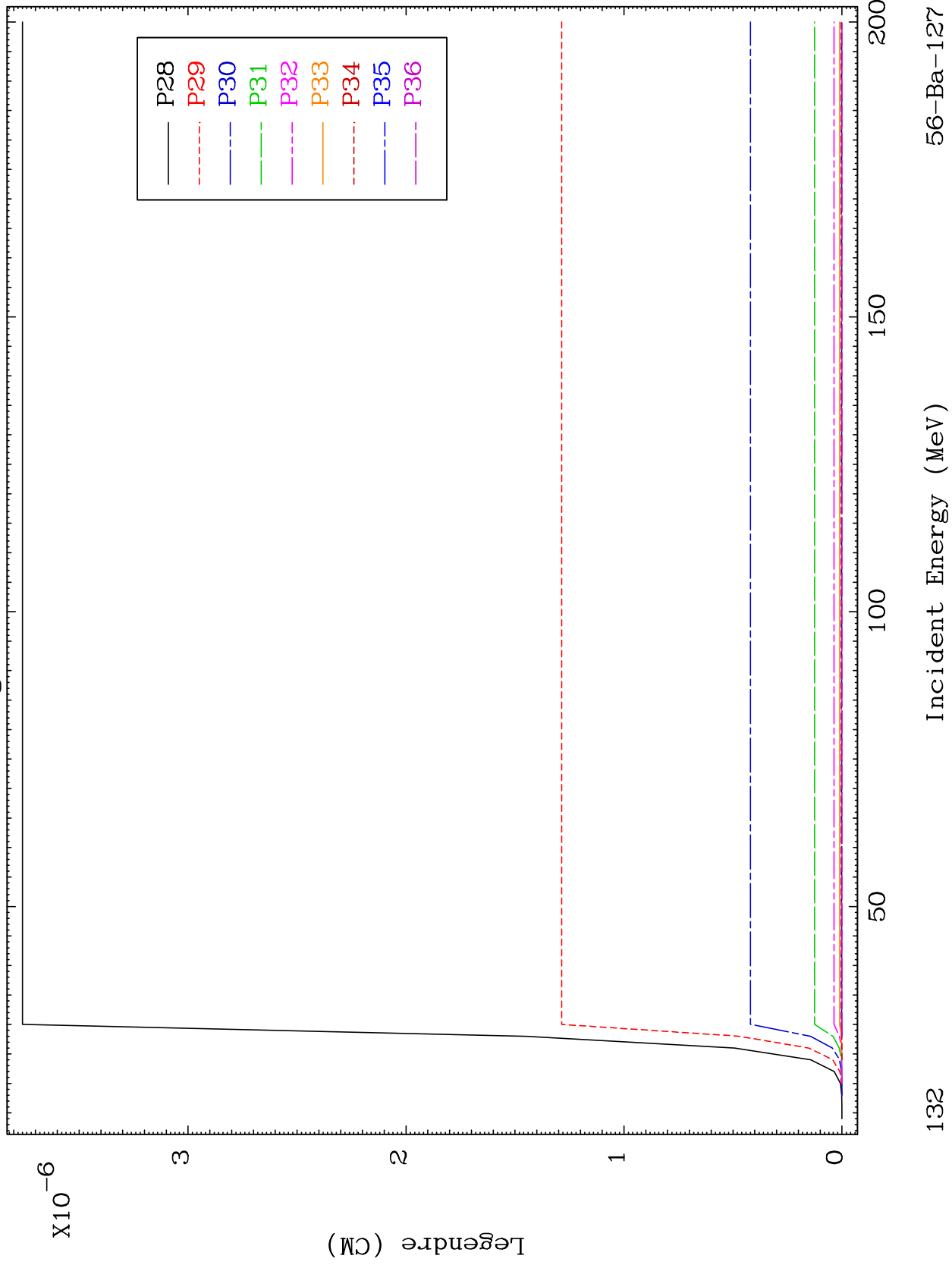




MAT 5616

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

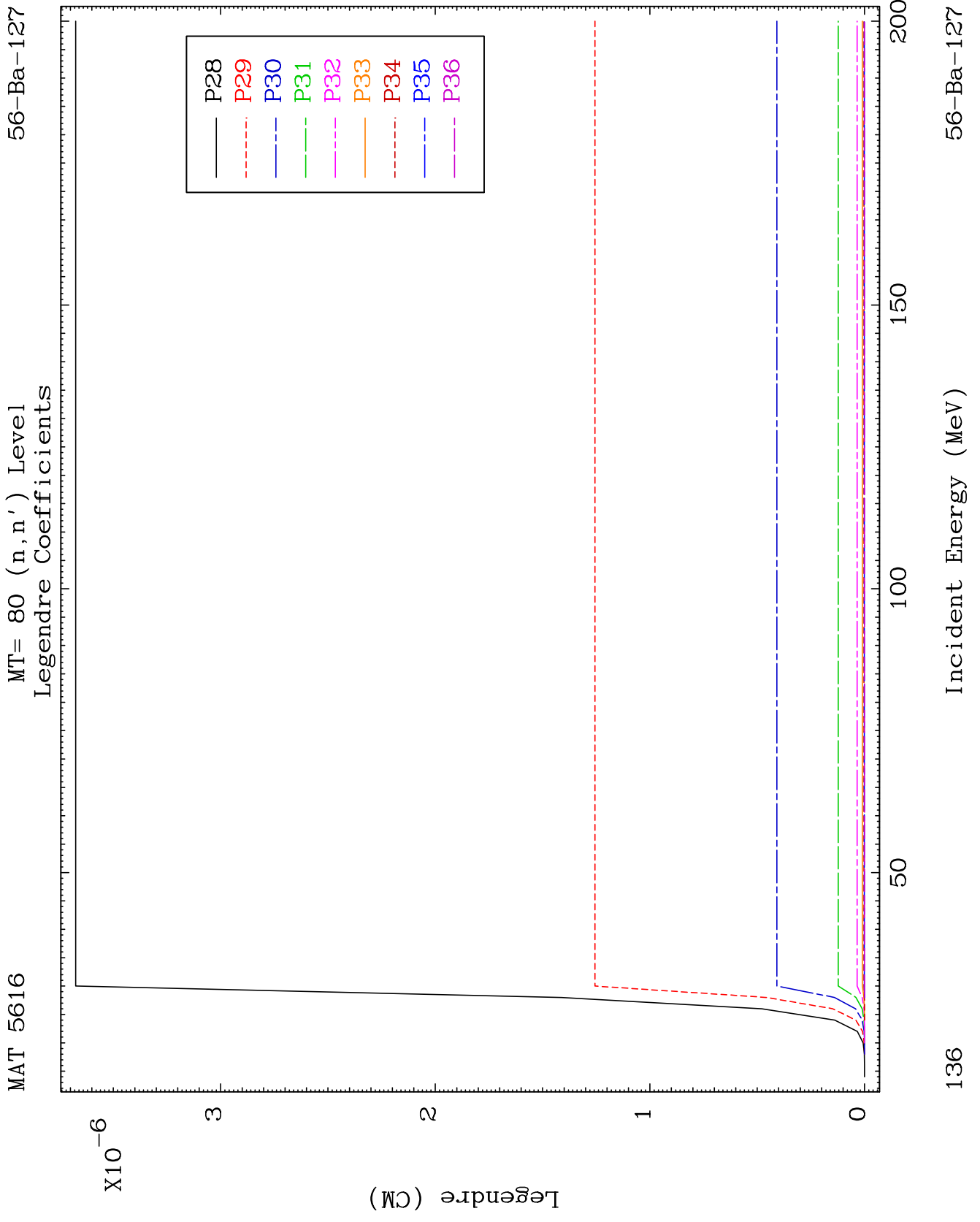
56-Ba-127



132

Incident Energy (MeV)

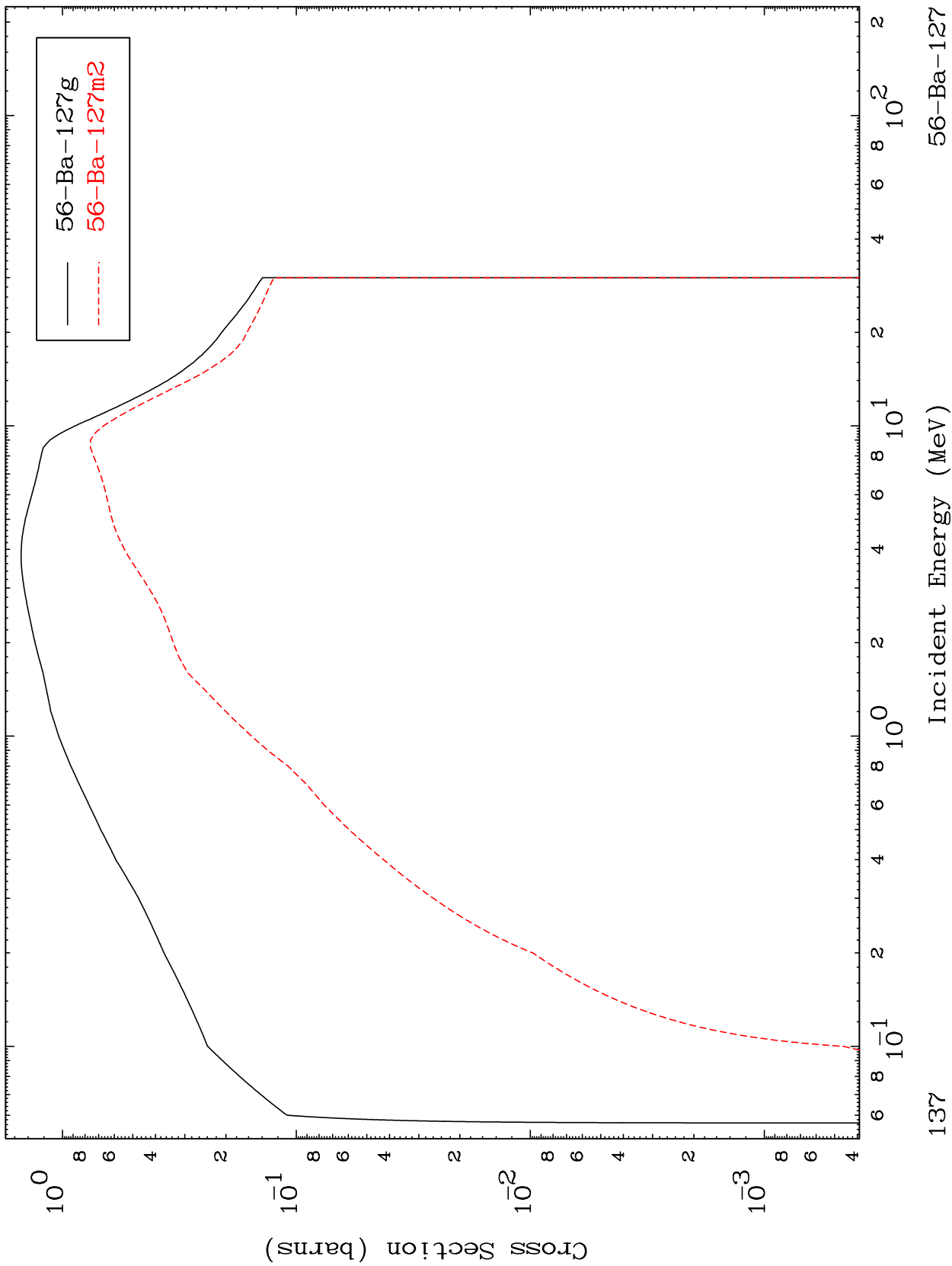
56-Ba-127



MAT 5616

56-Ba-127

Inelastic
Radionuclide Production Cross Section



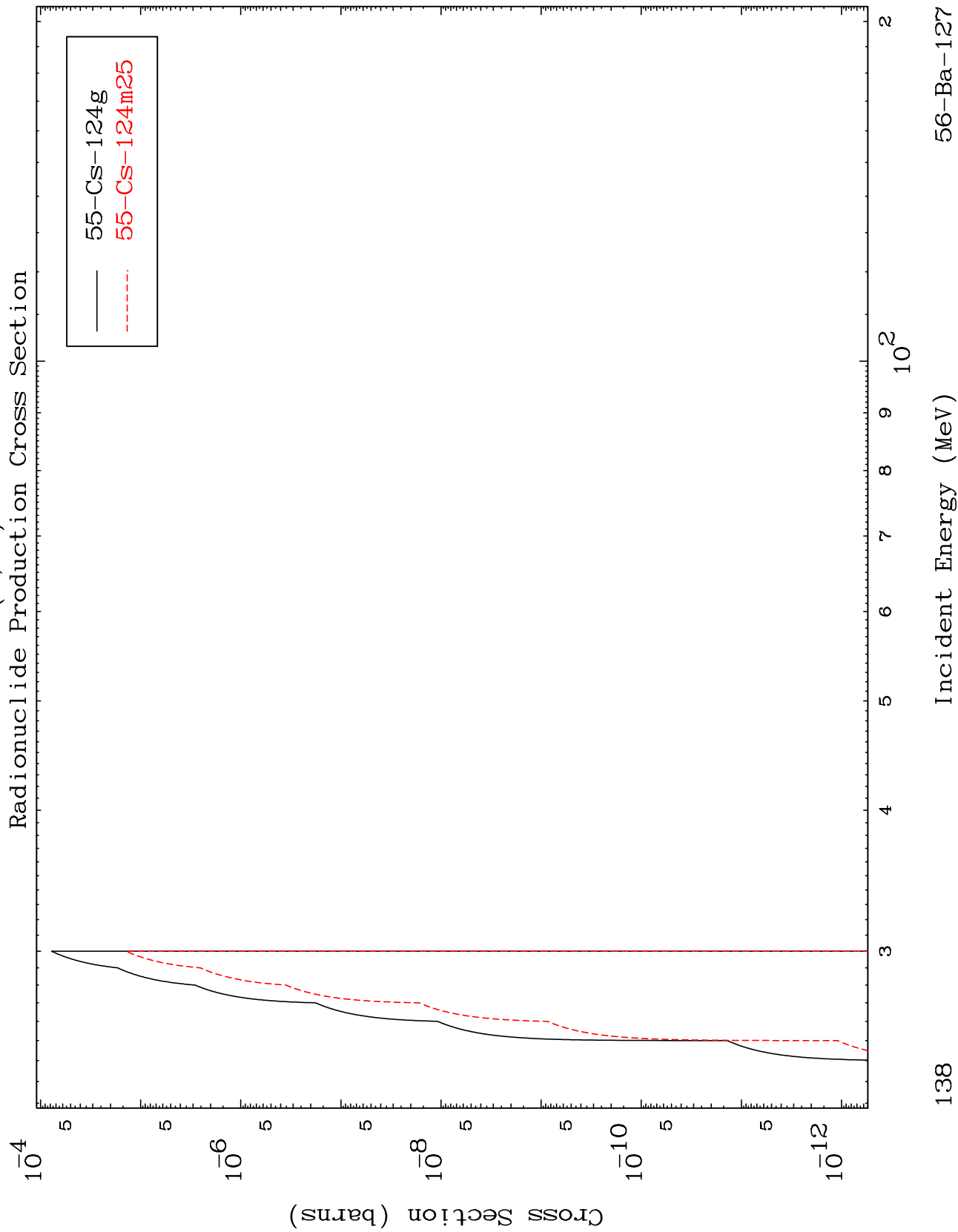
137

56-Ba-127

MAT 5616

(n,2n) d

56-Ba-127



138

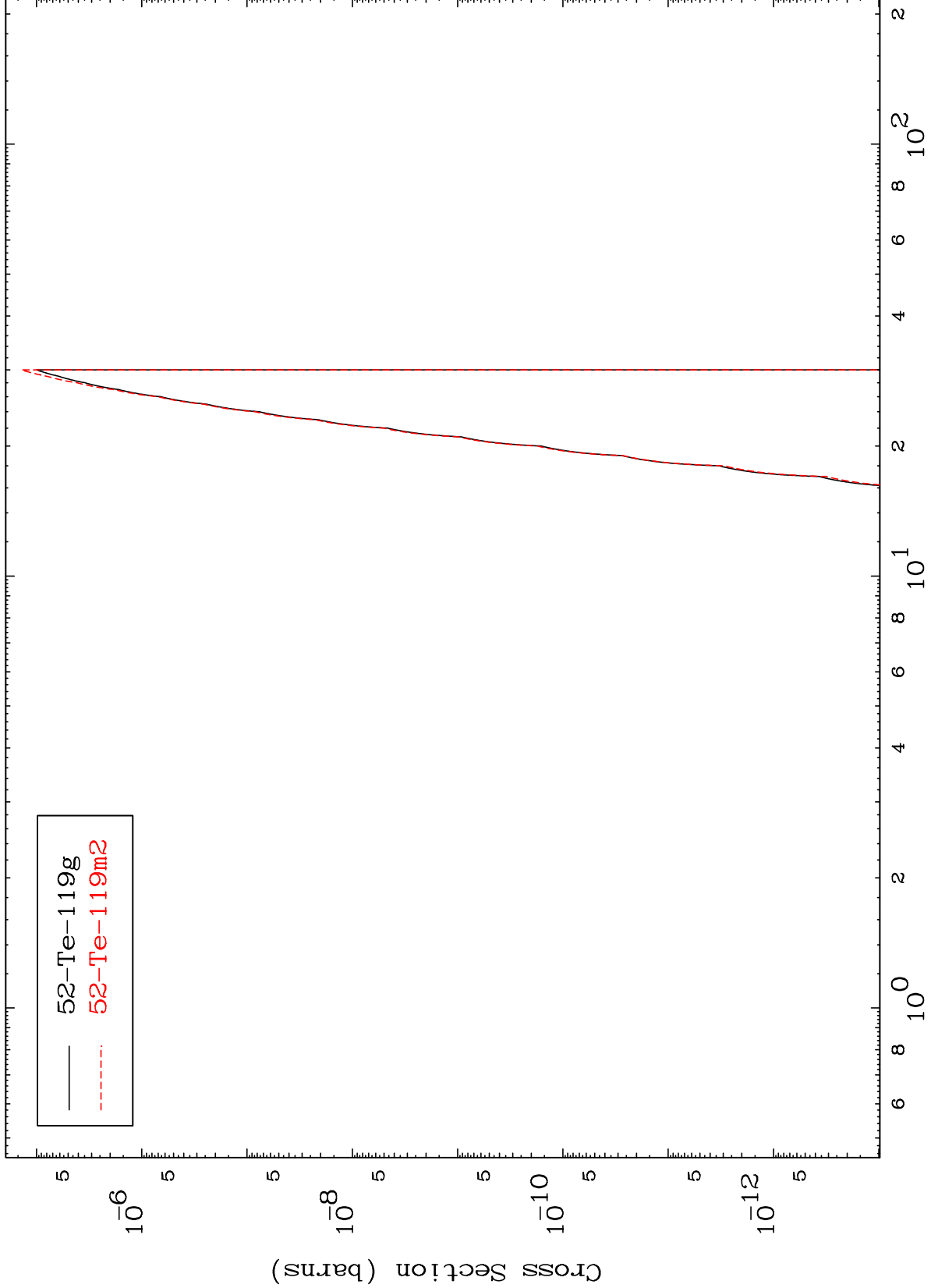
56-Ba-127

MAT 5616

(n,n') 2α

56-Ba-127

Radionuclide Production Cross Section



52-Te-119g
52-Te-119m2

139

Incident Energy (MeV)

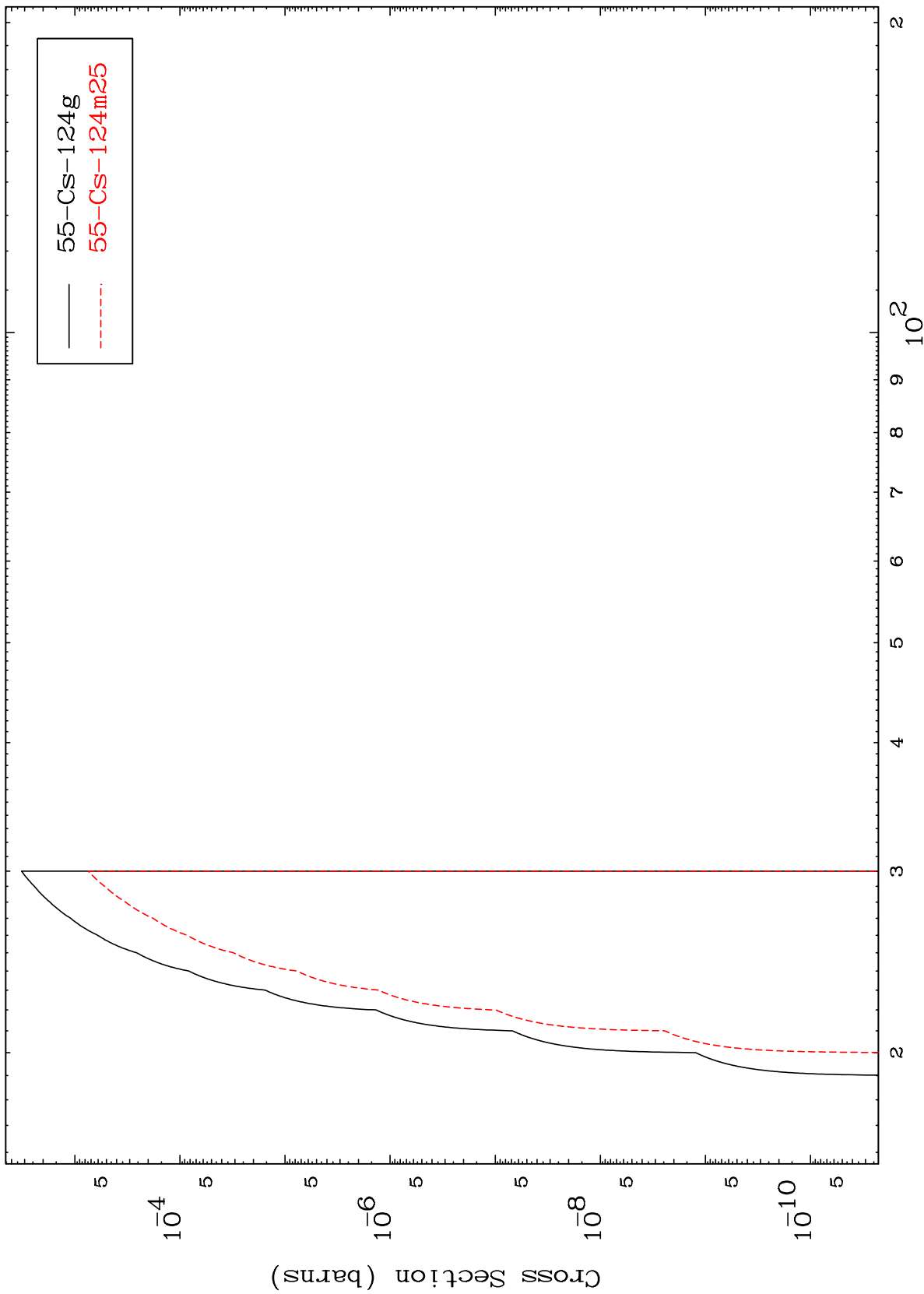
56-Ba-127

MAT 5616

(n,n') t

56-Ba-127

Radionuclide Production Cross Section



140

Incident Energy (MeV)

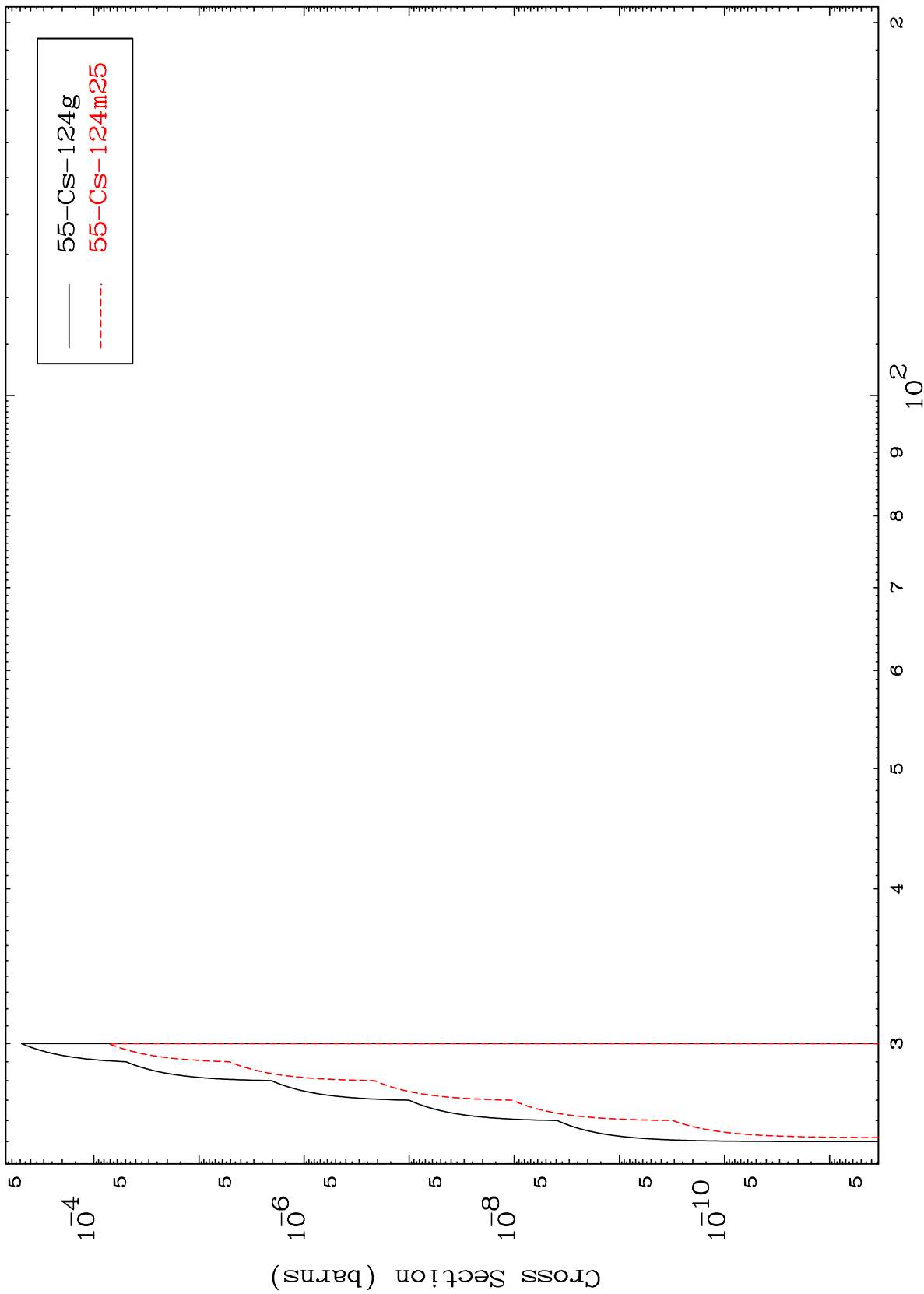
56-Ba-127

MAT 5616

(n,3n) p

56-Ba-127

Radionuclide Production Cross Section



141

Incident Energy (MeV)

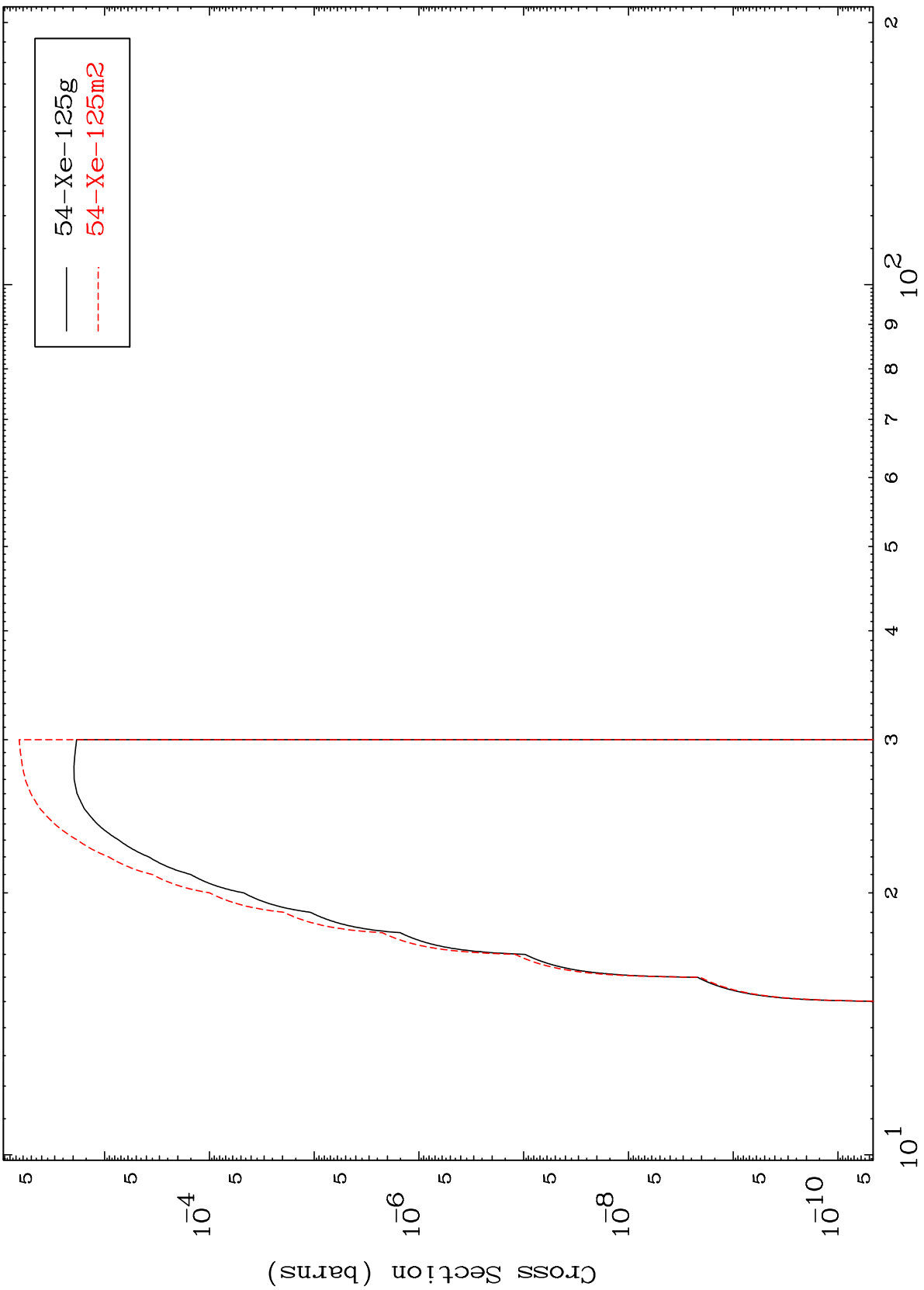
56-Ba-127

MAT 5616

(n,2n) p

56-Ba-127

Radionuclide Production Cross Section



142

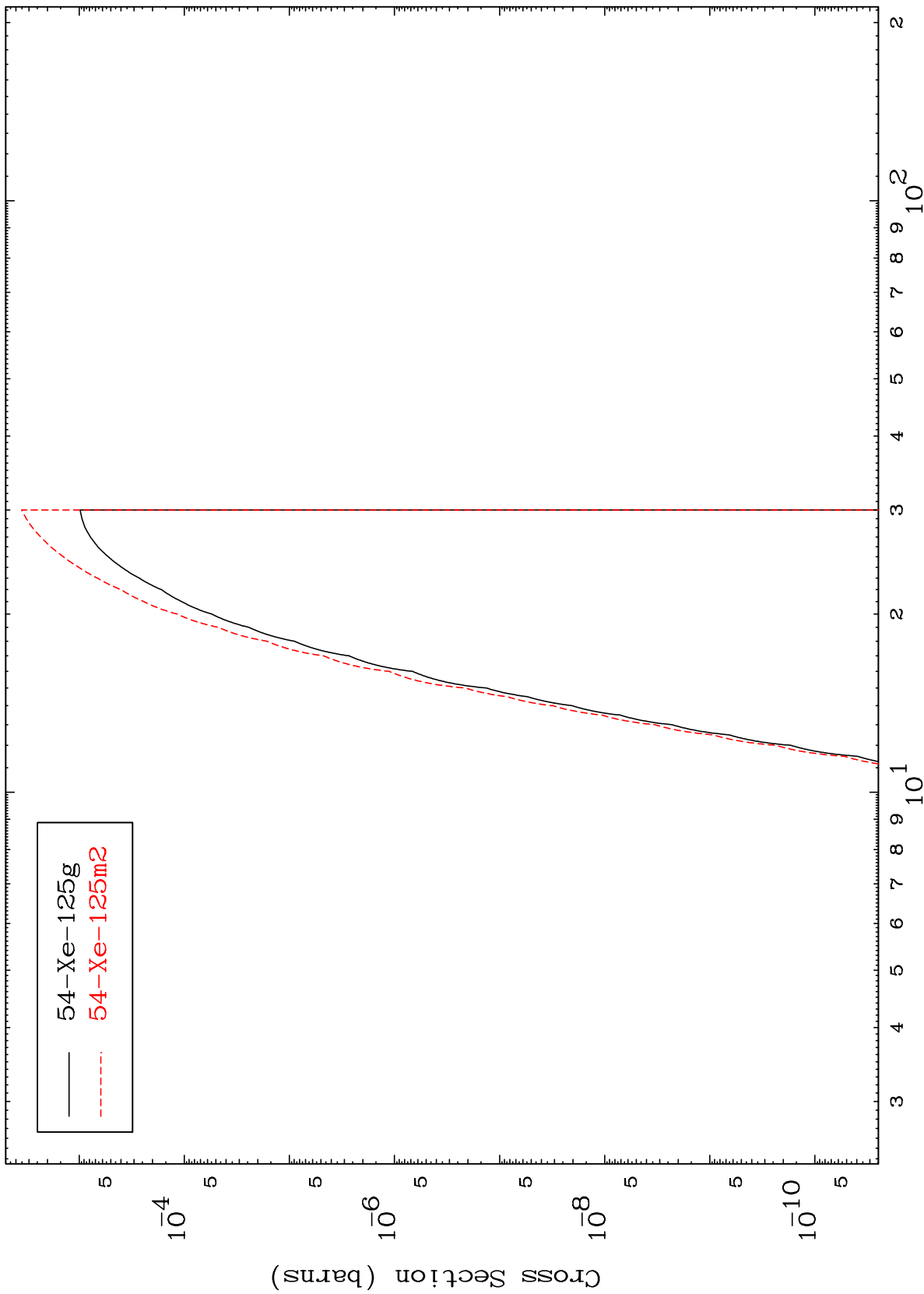
Incident Energy (MeV)

56-Ba-127

MAT 5616

56-Ba-127

(n,He-3)
Radionuclide Production Cross Section



143

56-Ba-127

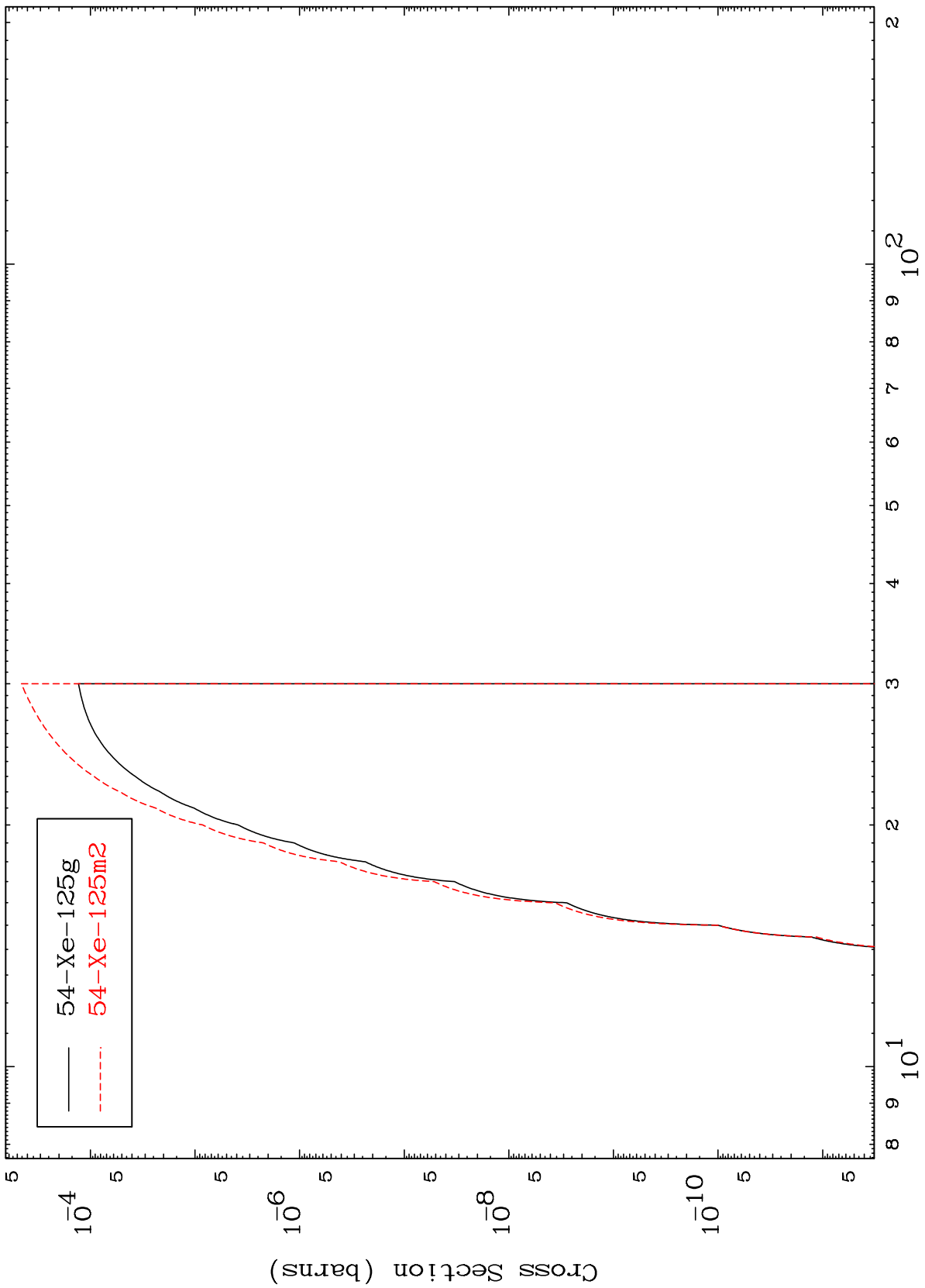
Incident Energy (MeV)

MAT 5616

(n,p) d

56-Ba-127

Radionuclide Production Cross Section



144

Incident Energy (MeV)

56-Ba-127