

Program EVALPLOT  
(Version 2021-1)

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

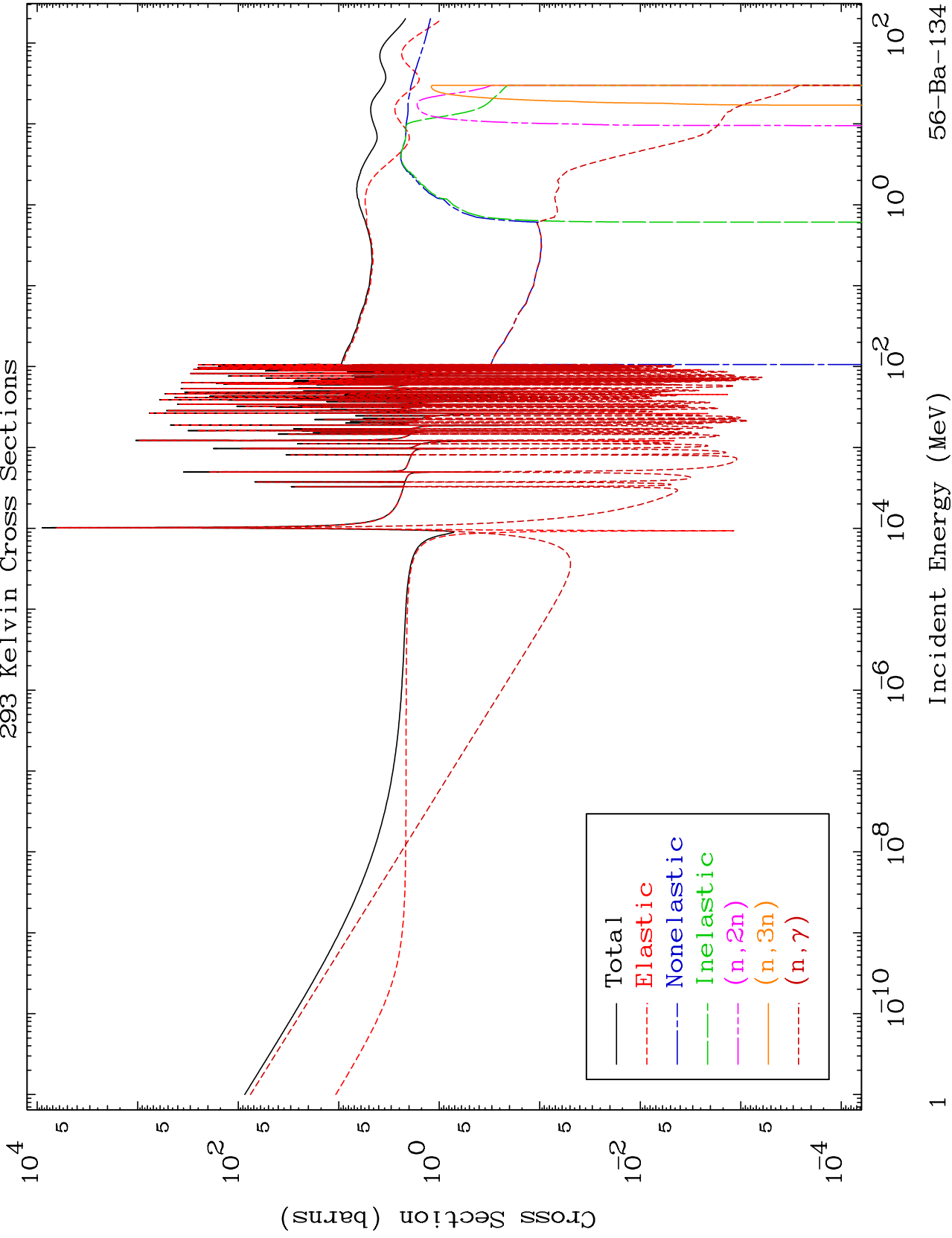
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5637

Neutron Major  
293 Kelvin Cross Sections

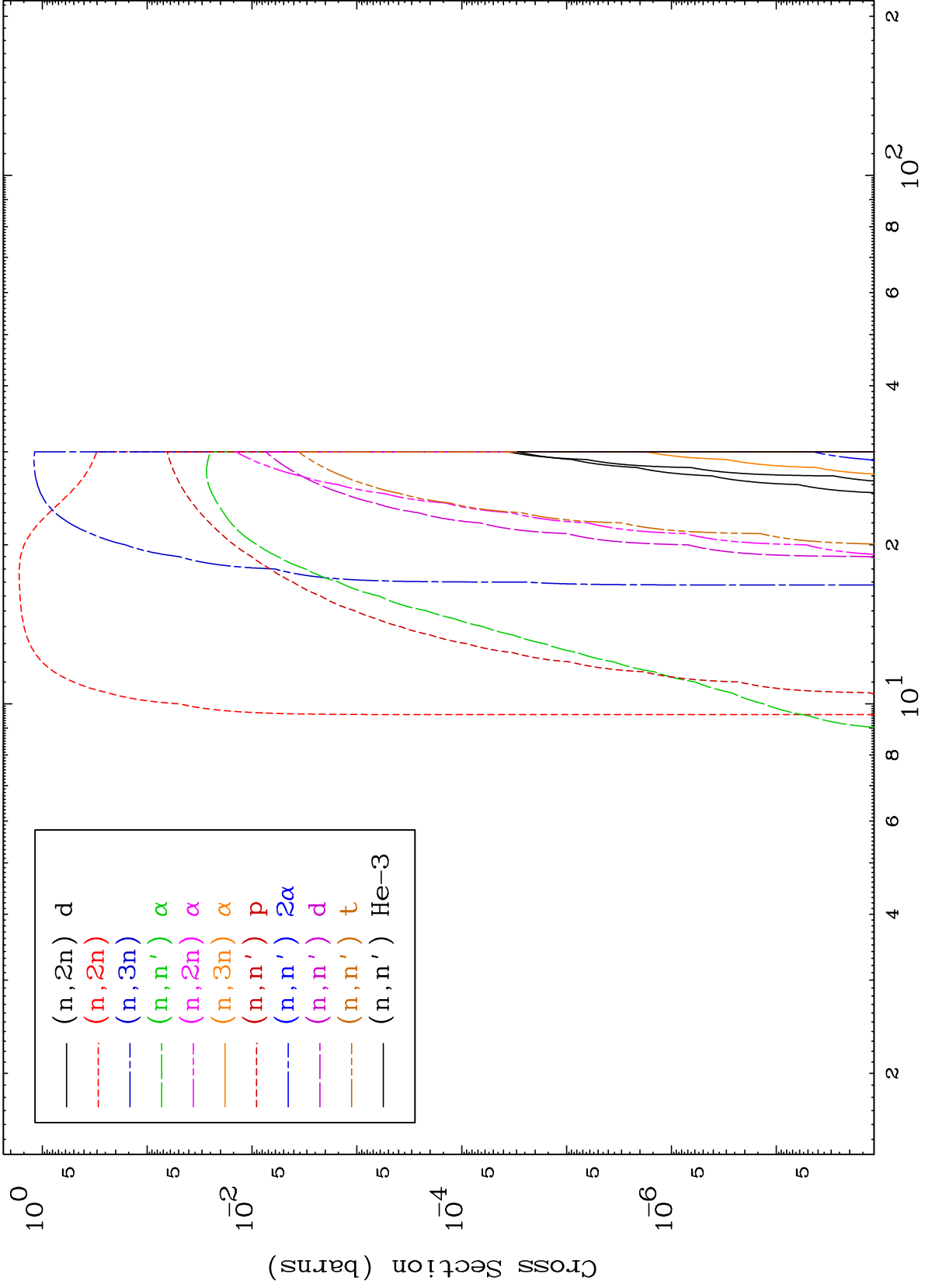
56-Ba-134



MAT 5637

Neutron Absorption  
293 Kelvin Cross Sections

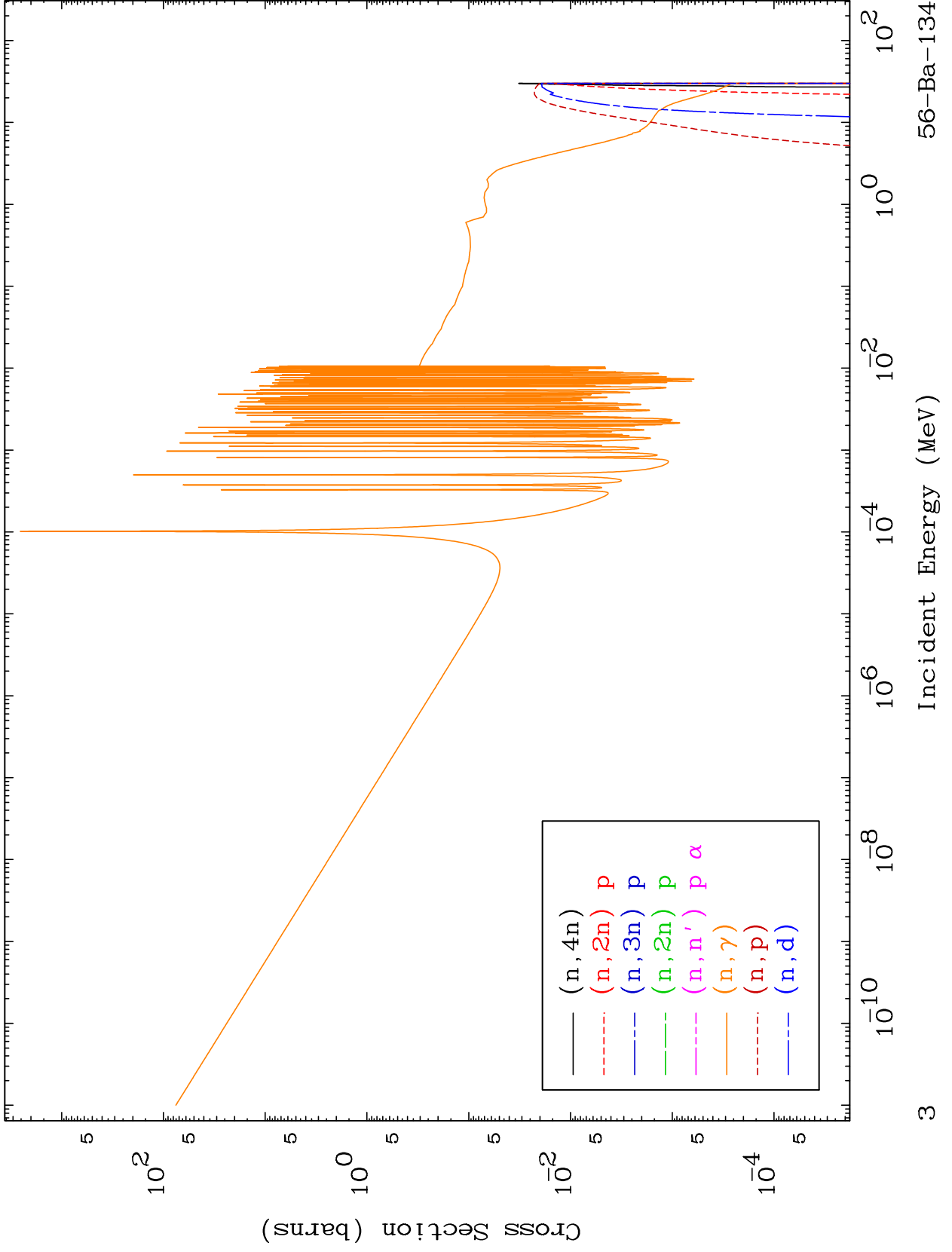
56-Ba-134



MAT 5637

Neutron Absorption  
293 Kelvin Cross Sections

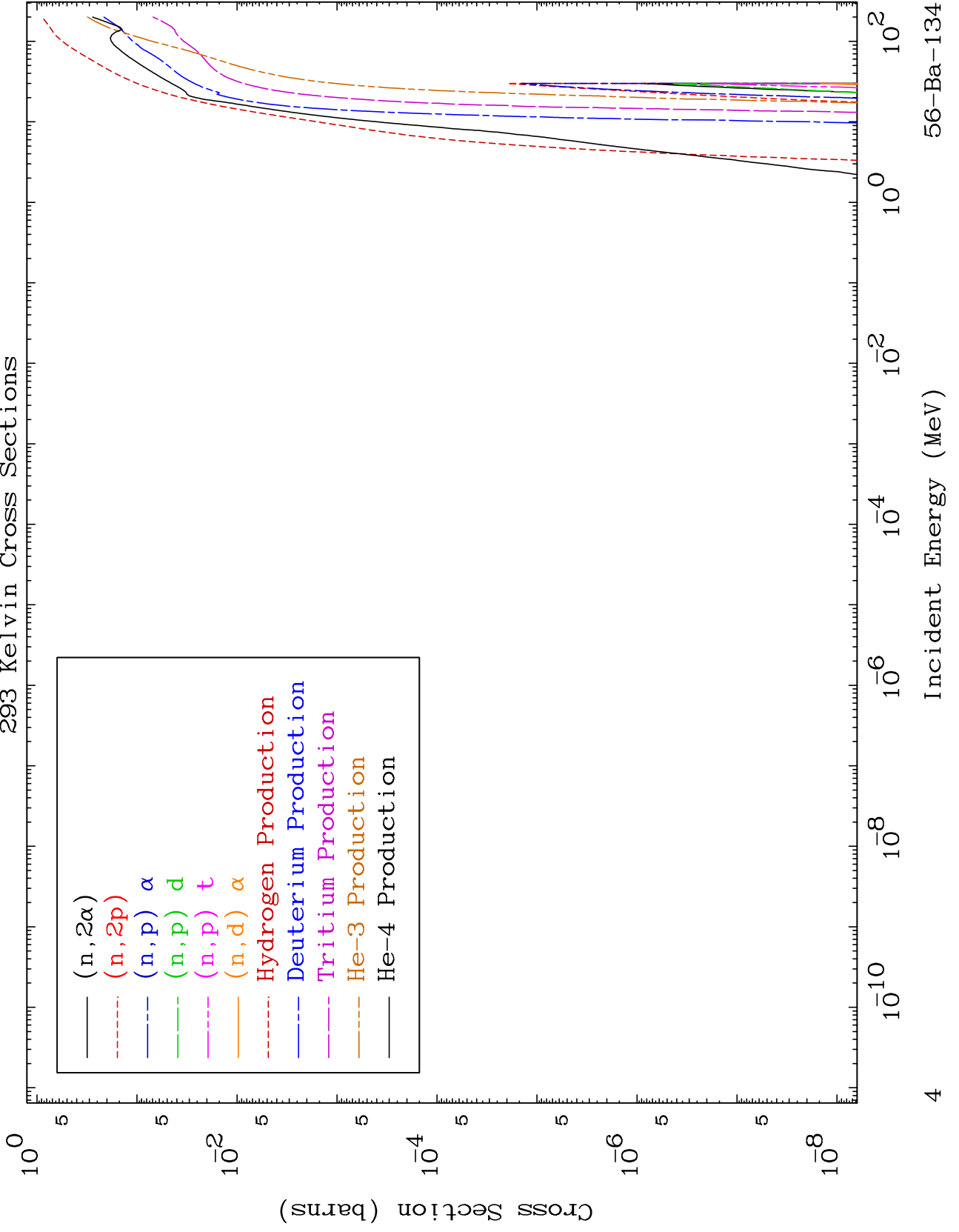
56-Ba-134

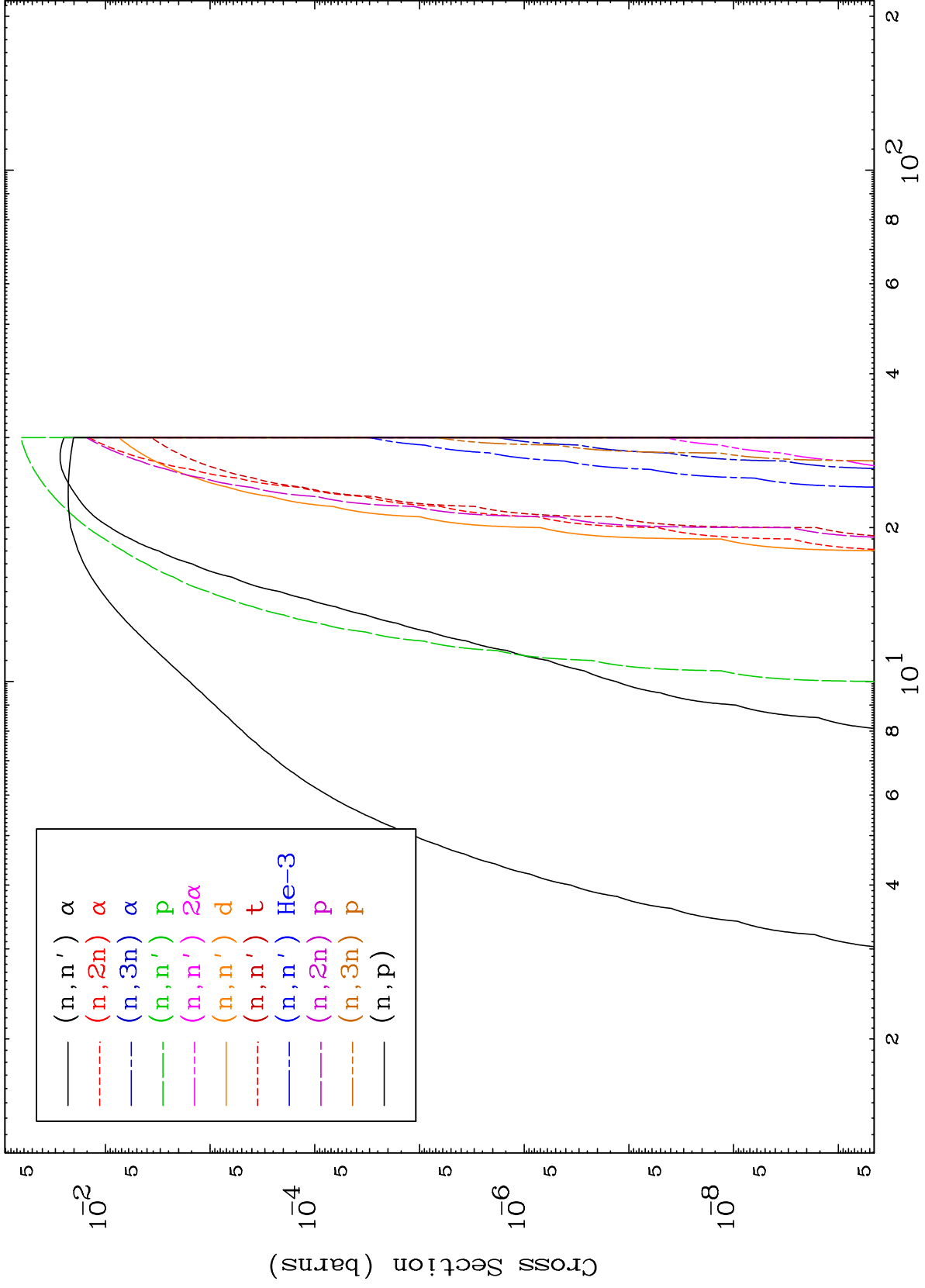


MAT 5637

Neutron Absorption  
293 Kelvin Cross Sections

56-Ba-134

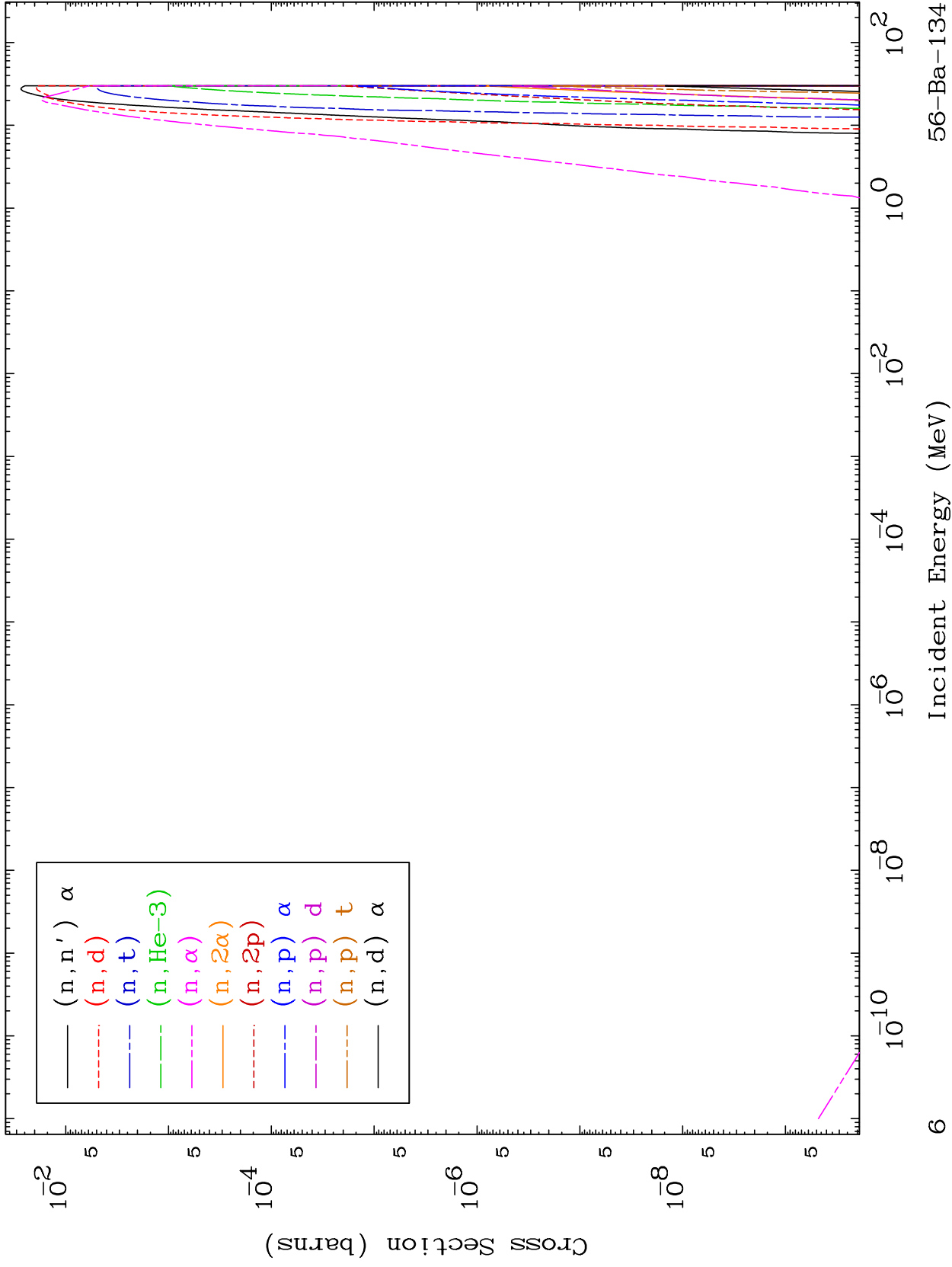




MAT 5637

Charged Particle  
293 Kelvin Cross Sections

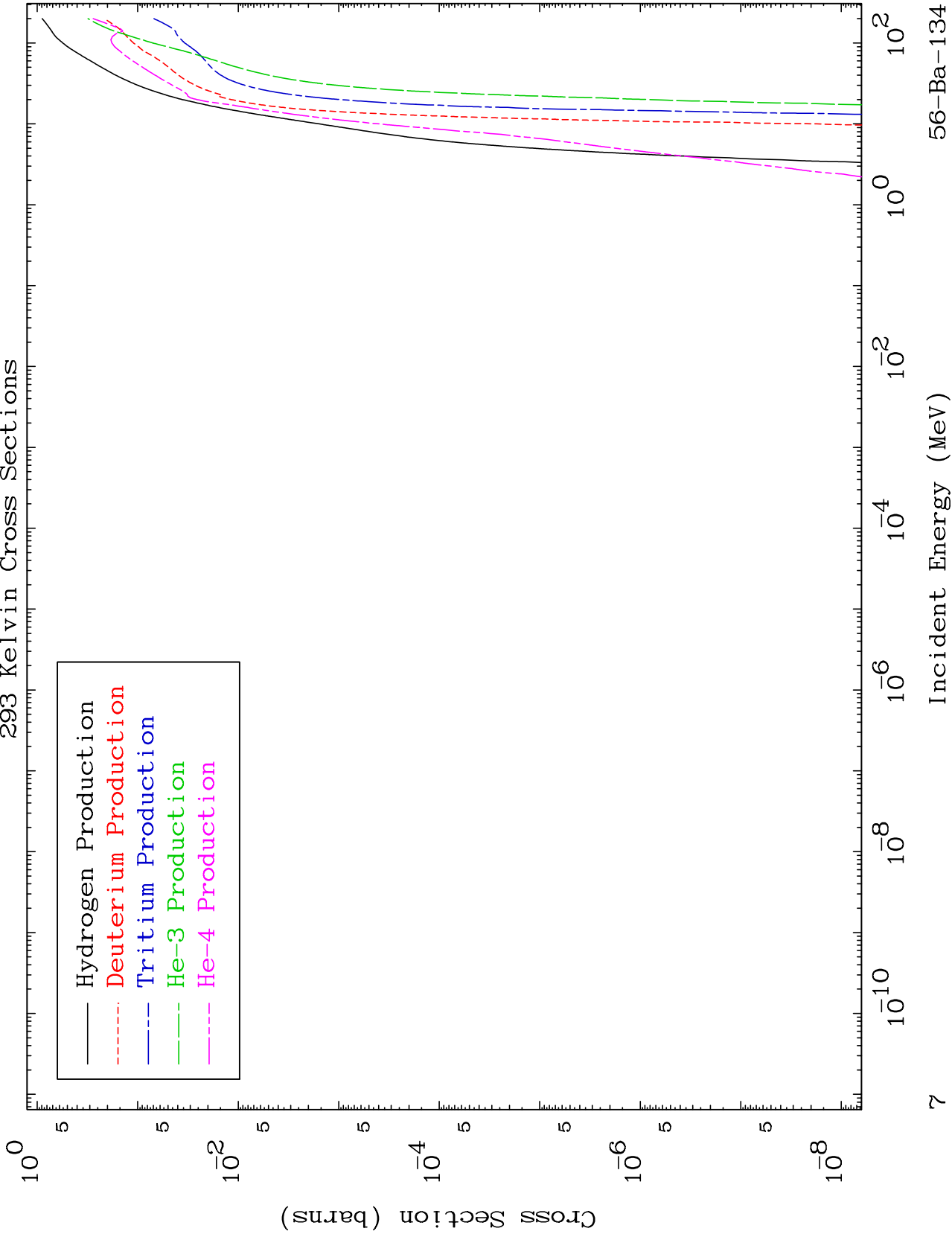
56-Ba-134



MAT 5637

Particle Production  
293 Kelvin Cross Sections

56-Ba-134



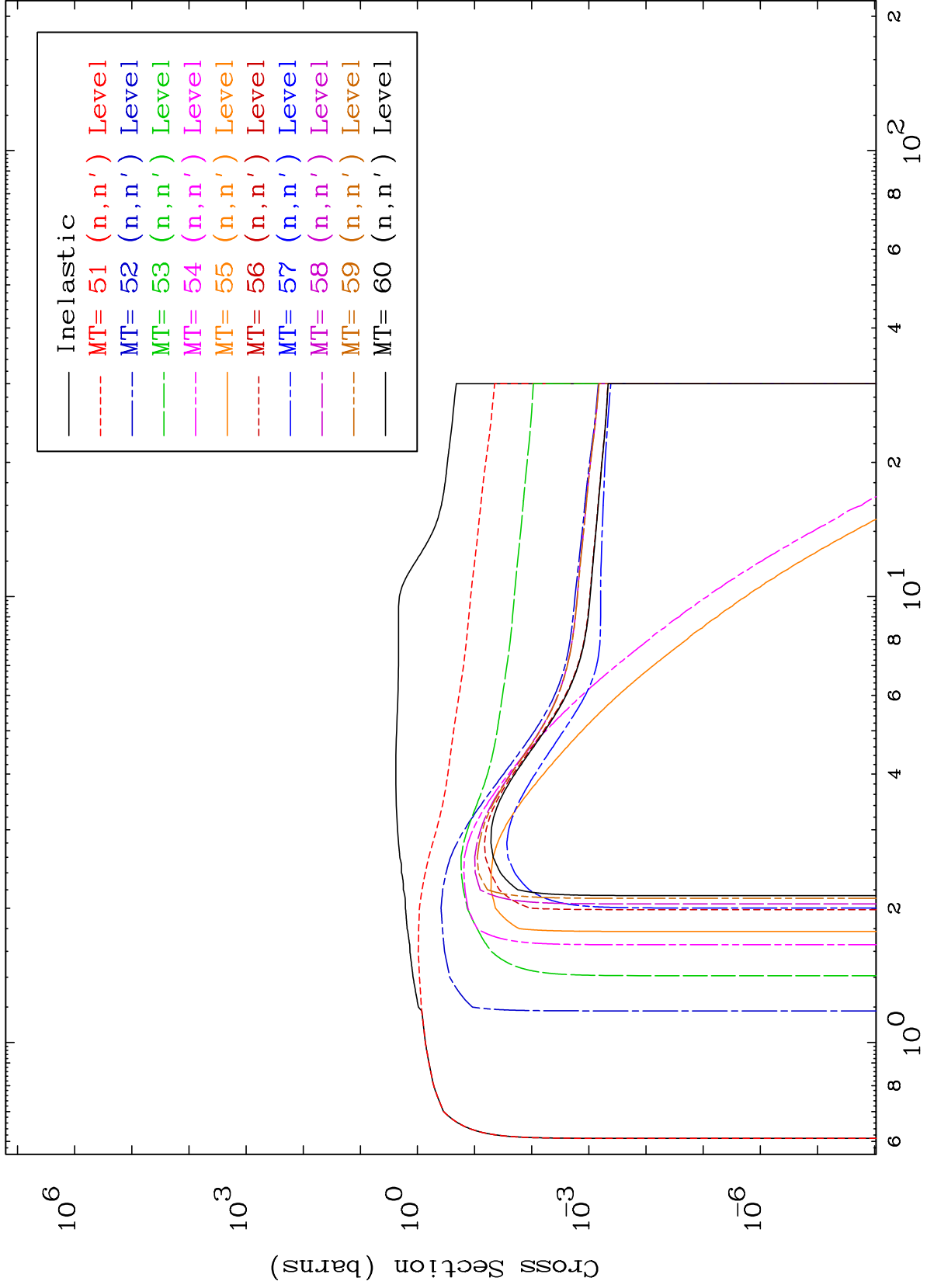


MAT 5637

(n,n') Levels

56-Ba-134

293 Kelvin Cross Sections



8

Incident Energy (MeV)

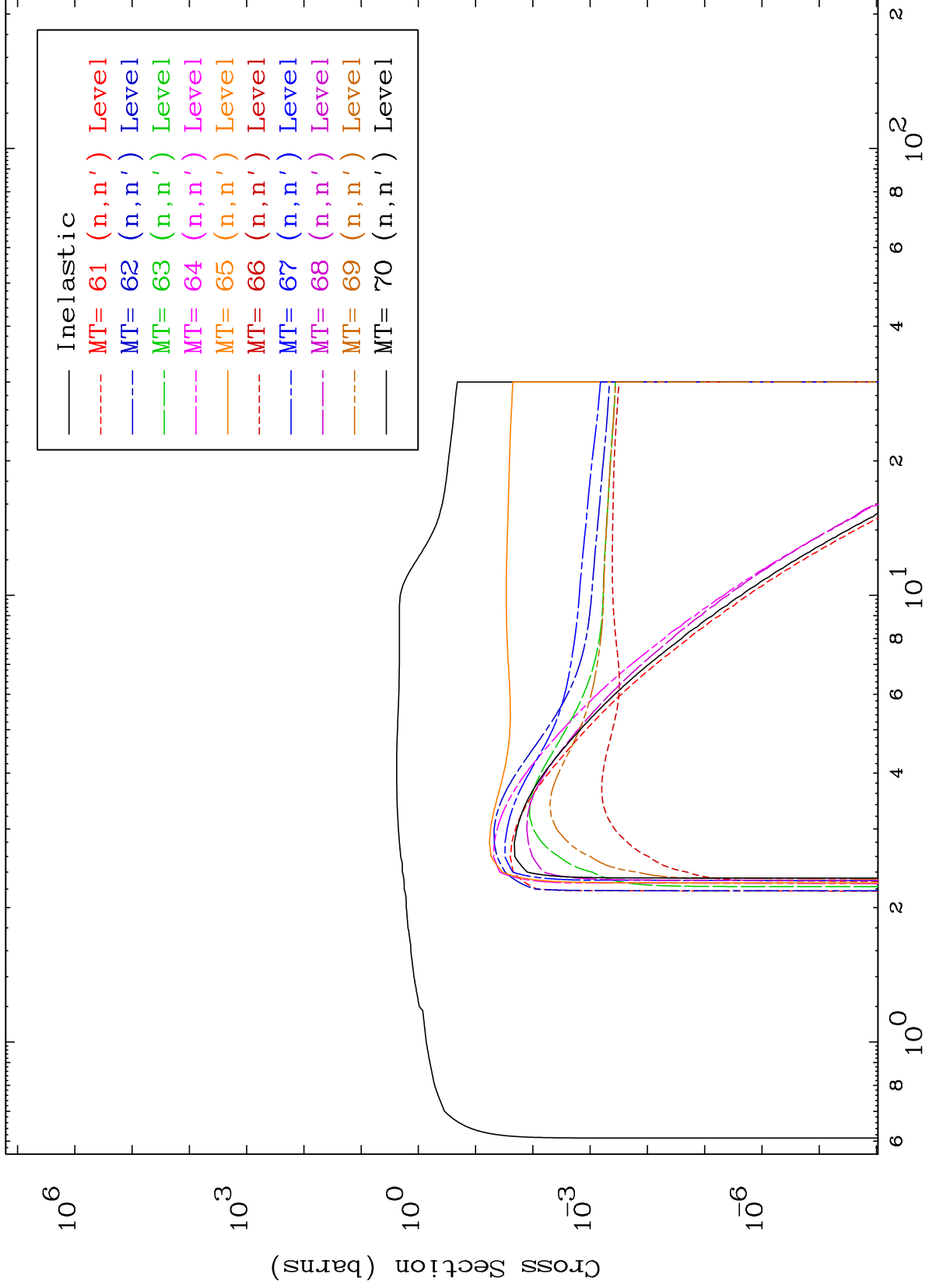
56-Ba-134

MAT 5637

(n,n') Levels

56-Ba-134

293 Kelvin Cross Sections

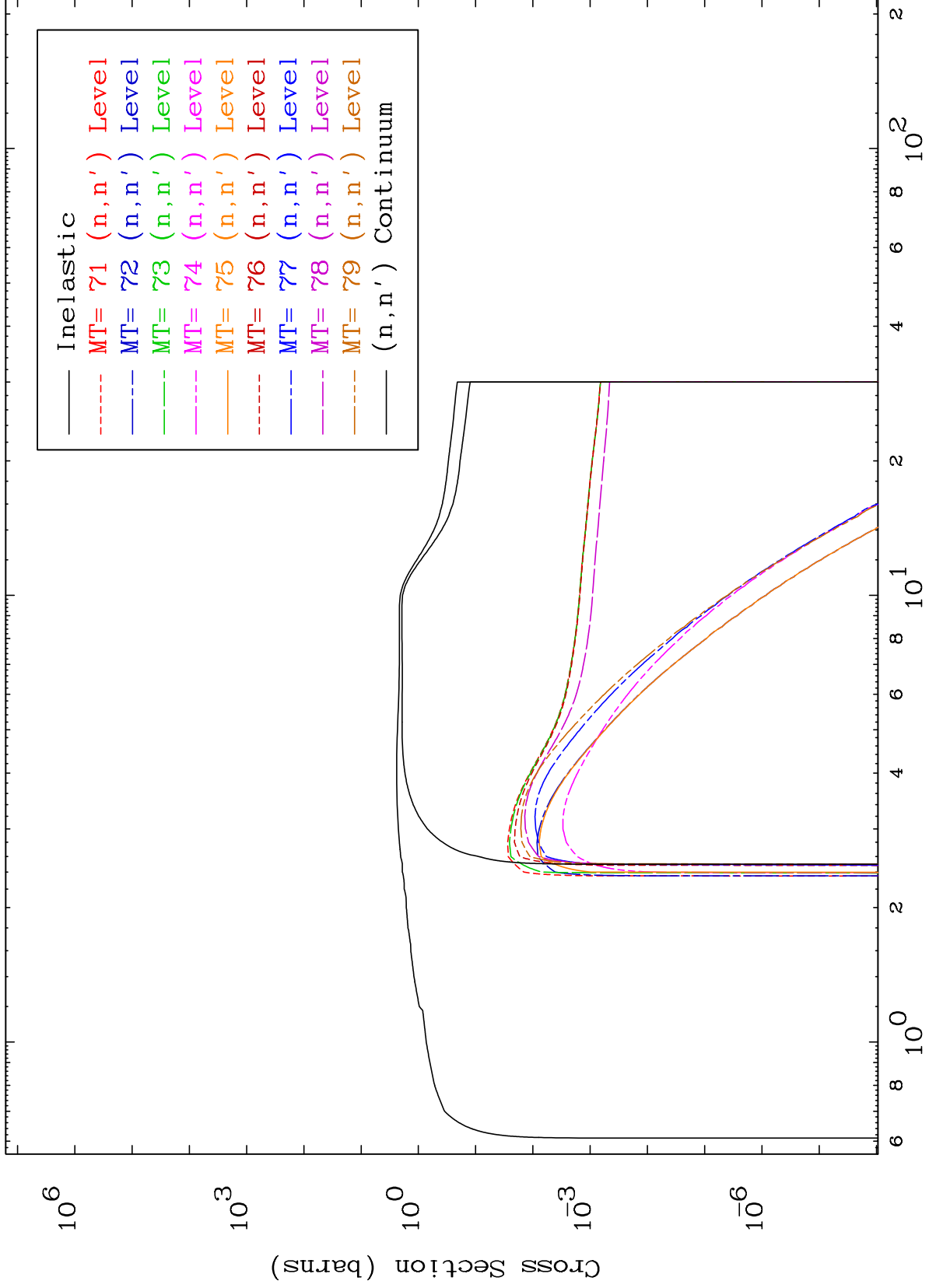


MAT 5637

(n,n') Levels

56-Ba-134

293 Kelvin Cross Sections



10

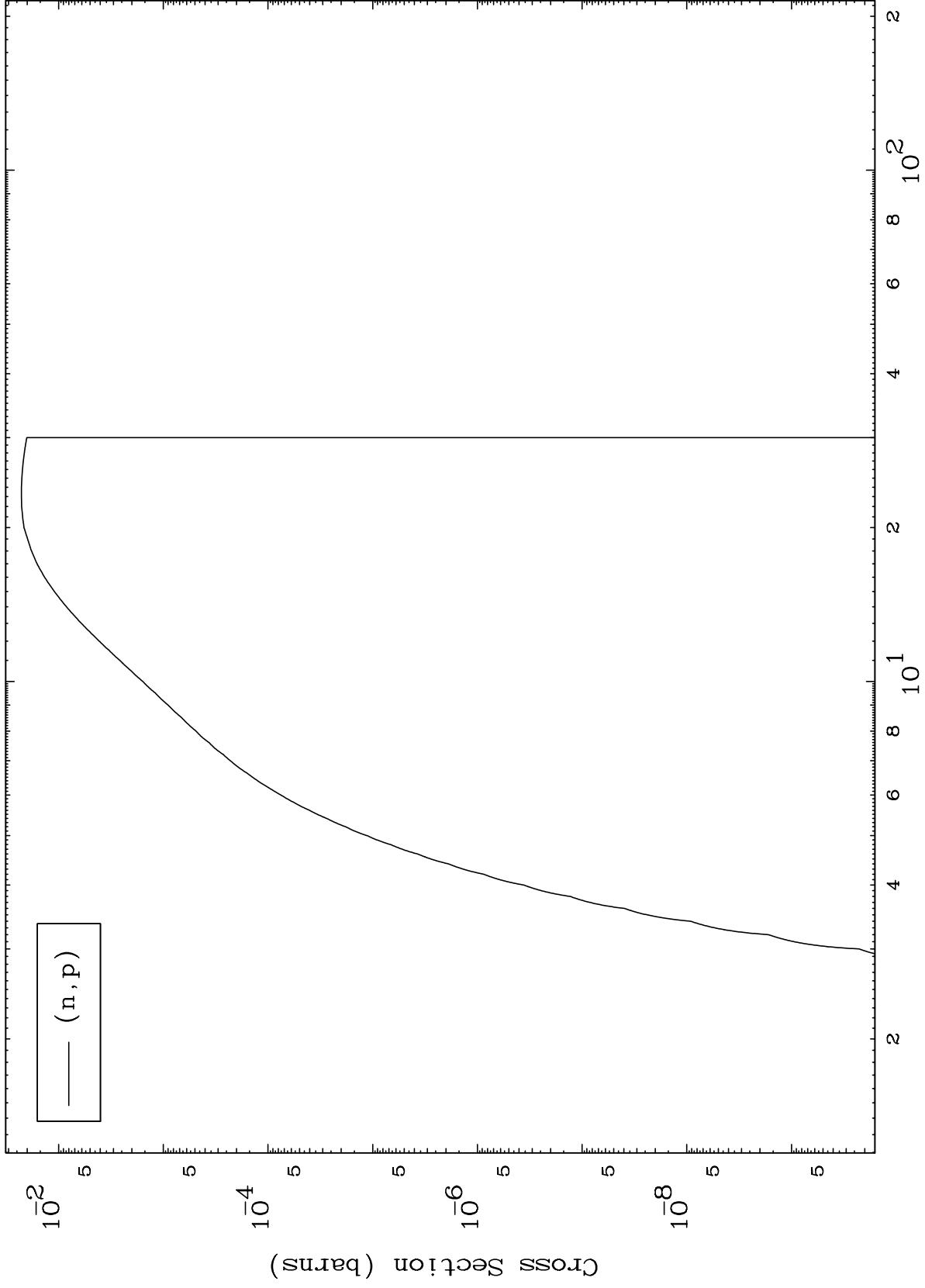
Incident Energy (MeV)

56-Ba-134

MAT 5637

(n,p) Levels  
293 Kelvin Cross Sections

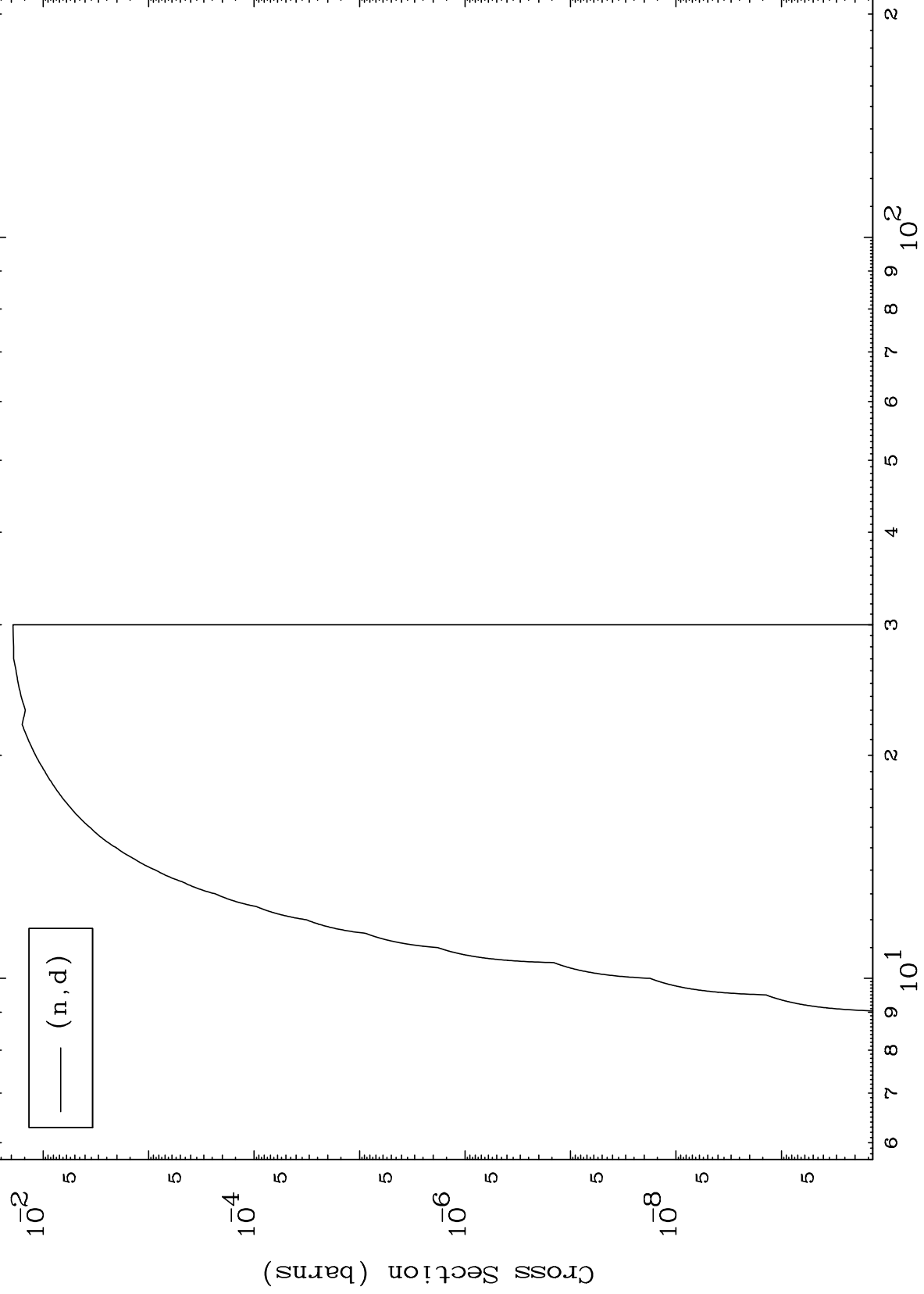
56-Ba-134



MAT 5637

(n,d) Levels  
293 Kelvin Cross Sections

56-Ba-134



12

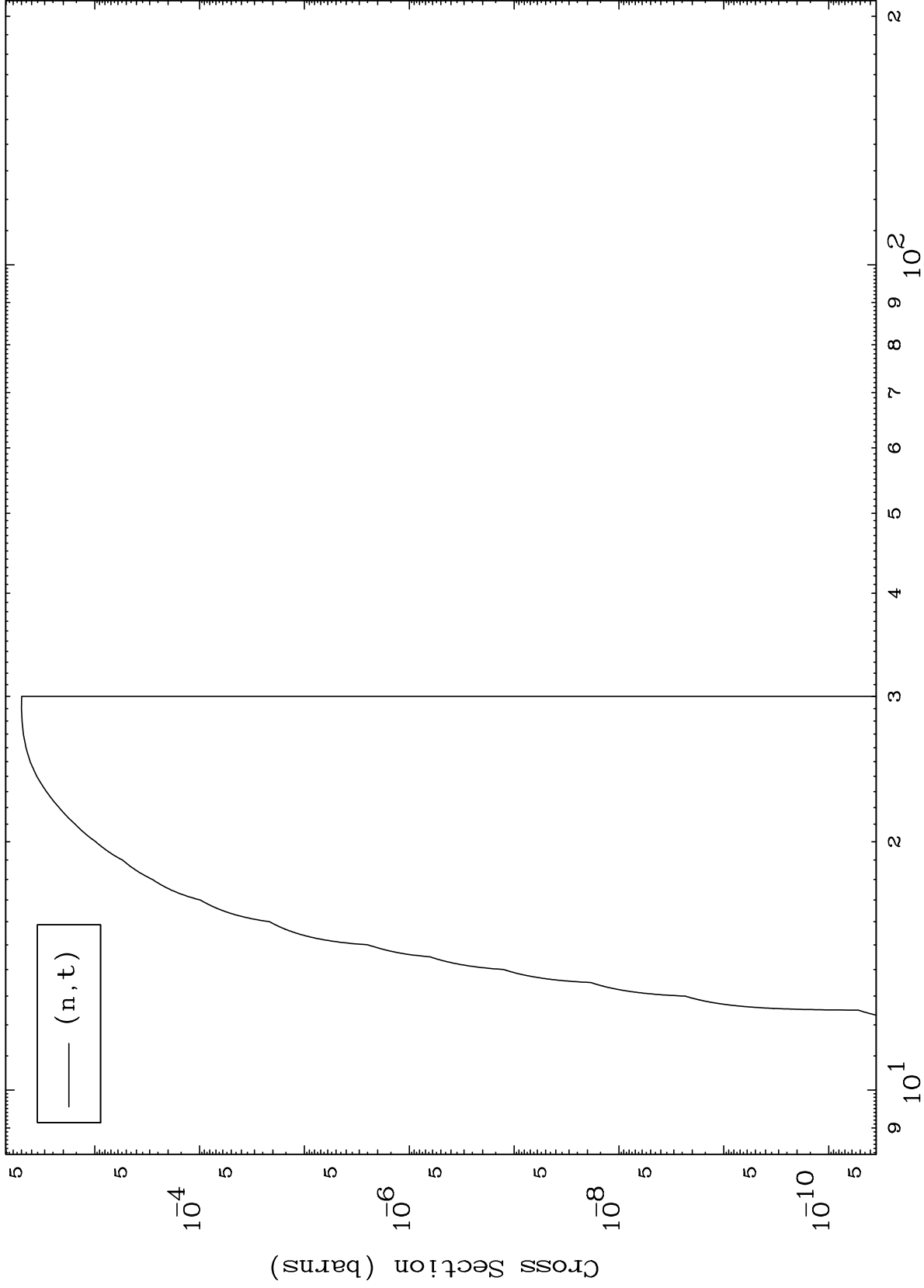
Incident Energy (MeV)

56-Ba-134

MAT 5637

(n,t) Levels  
293 Kelvin Cross Sections

56-Ba-134



13

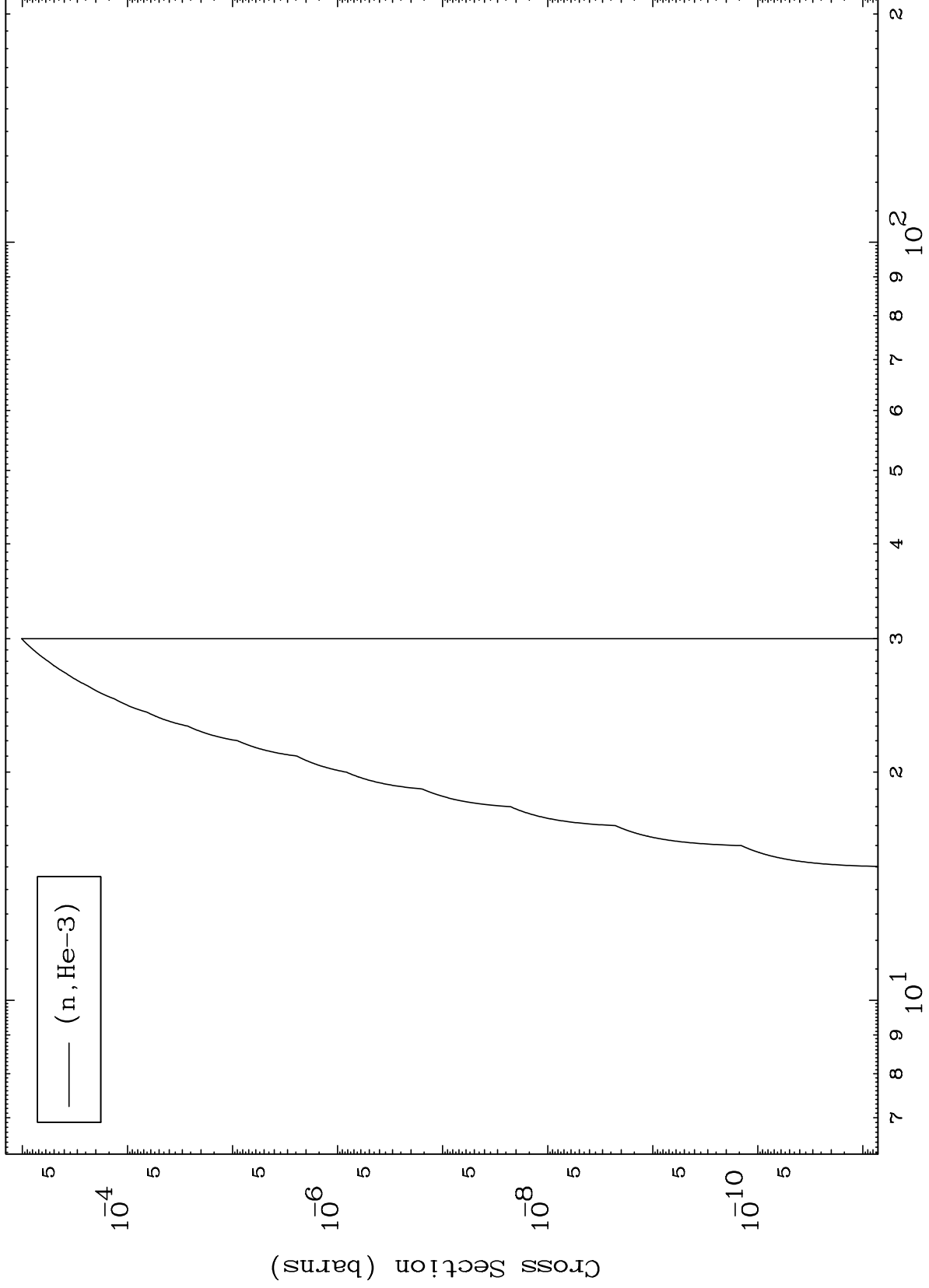
Incident Energy (MeV)

56-Ba-134

MAT 5637

(n,He3) Levels  
293 Kelvin Cross Sections

56-Ba-134



14

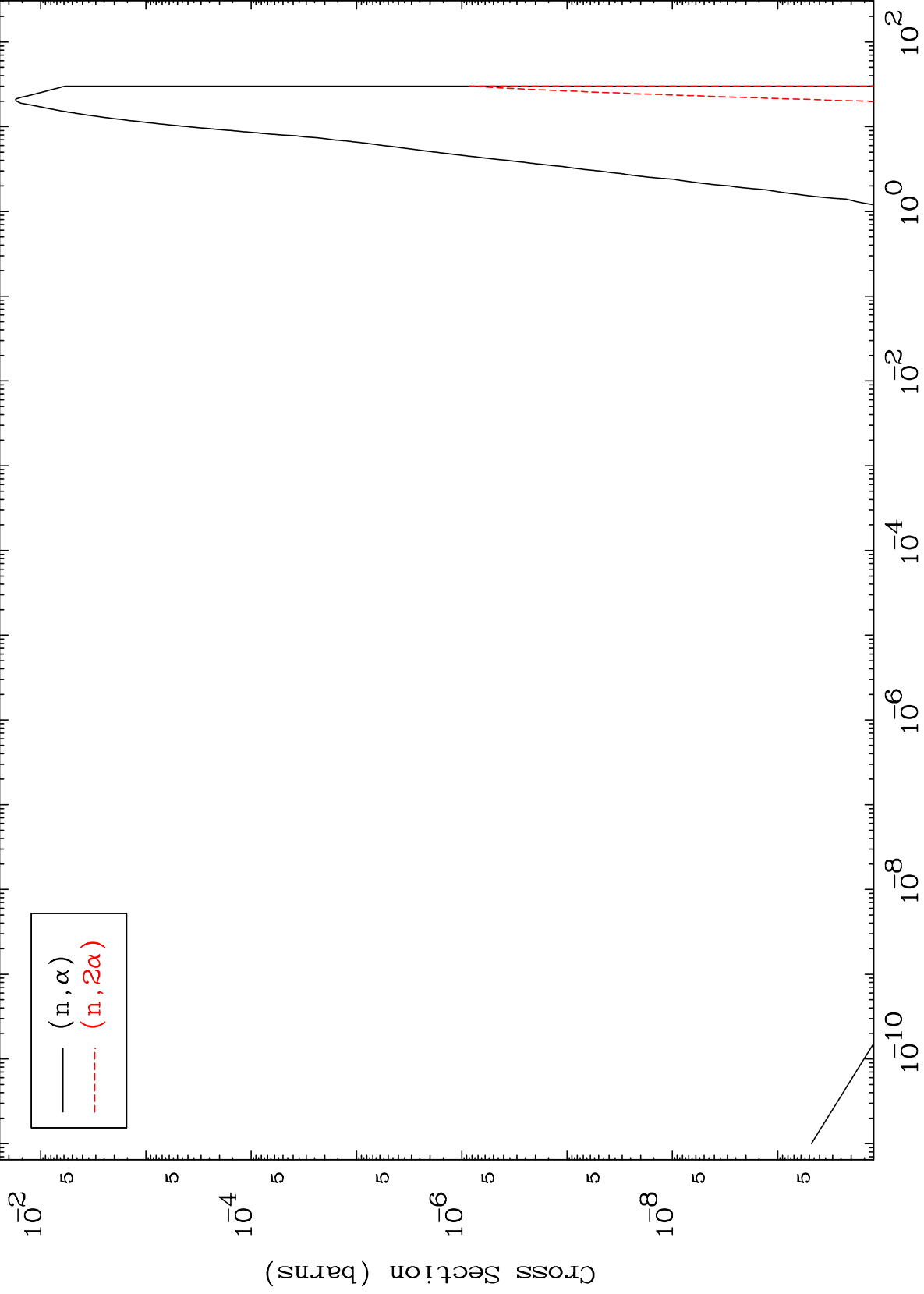
Incident Energy (MeV)

56-Ba-134

MAT 5637

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

56-Ba-134



15

Incident Energy (MeV)

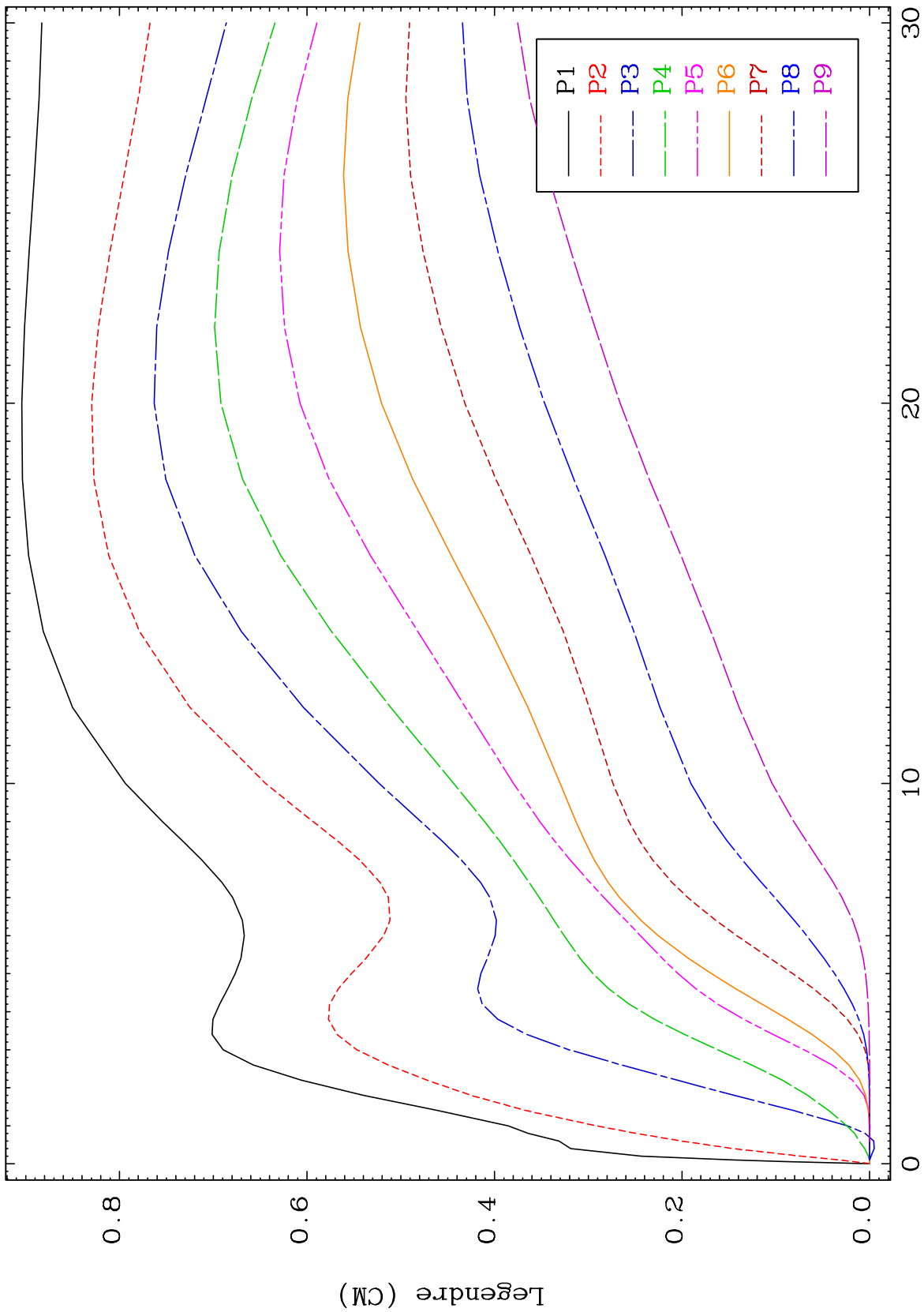
56-Ba-134



MAT 5637

Elastic Legendre Coefficients

56-Ba-134



16

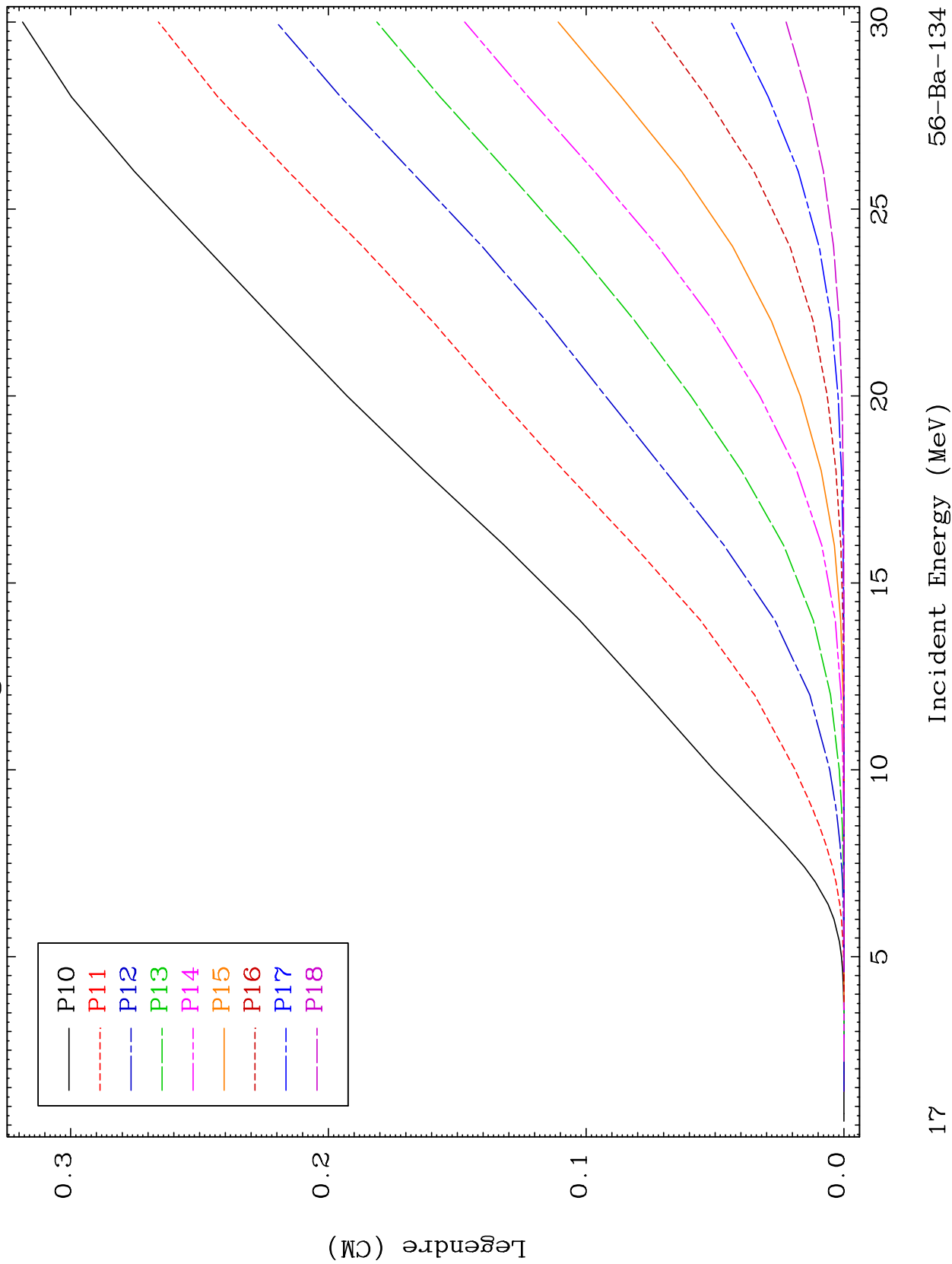
Incident Energy (MeV)

56-Ba-134

MAT 5637

Elastic  
Legendre Coefficients

56-Ba-134

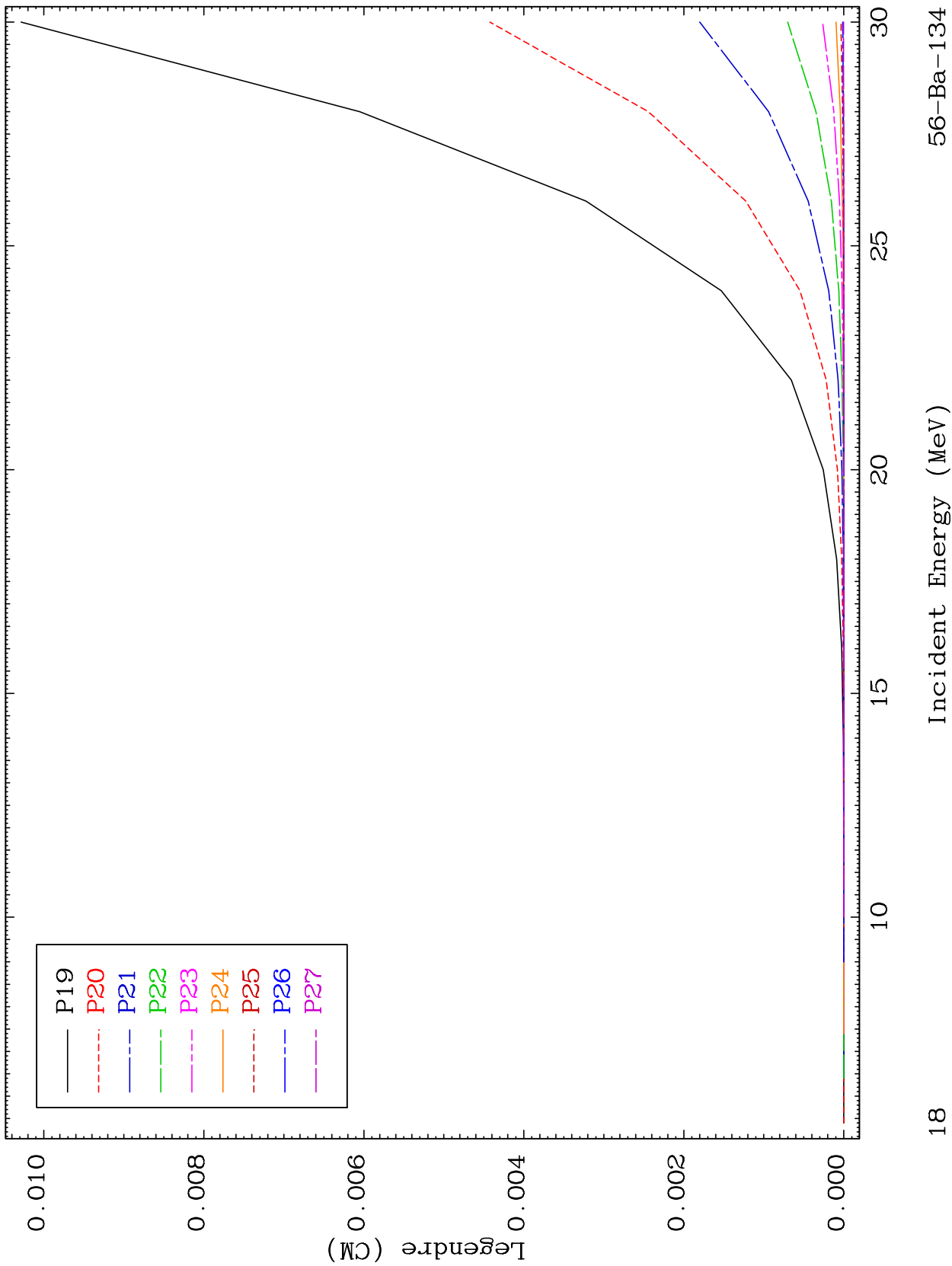


17

MAT 5637

### Elastic Legendre Coefficients

56-Ba-134



18

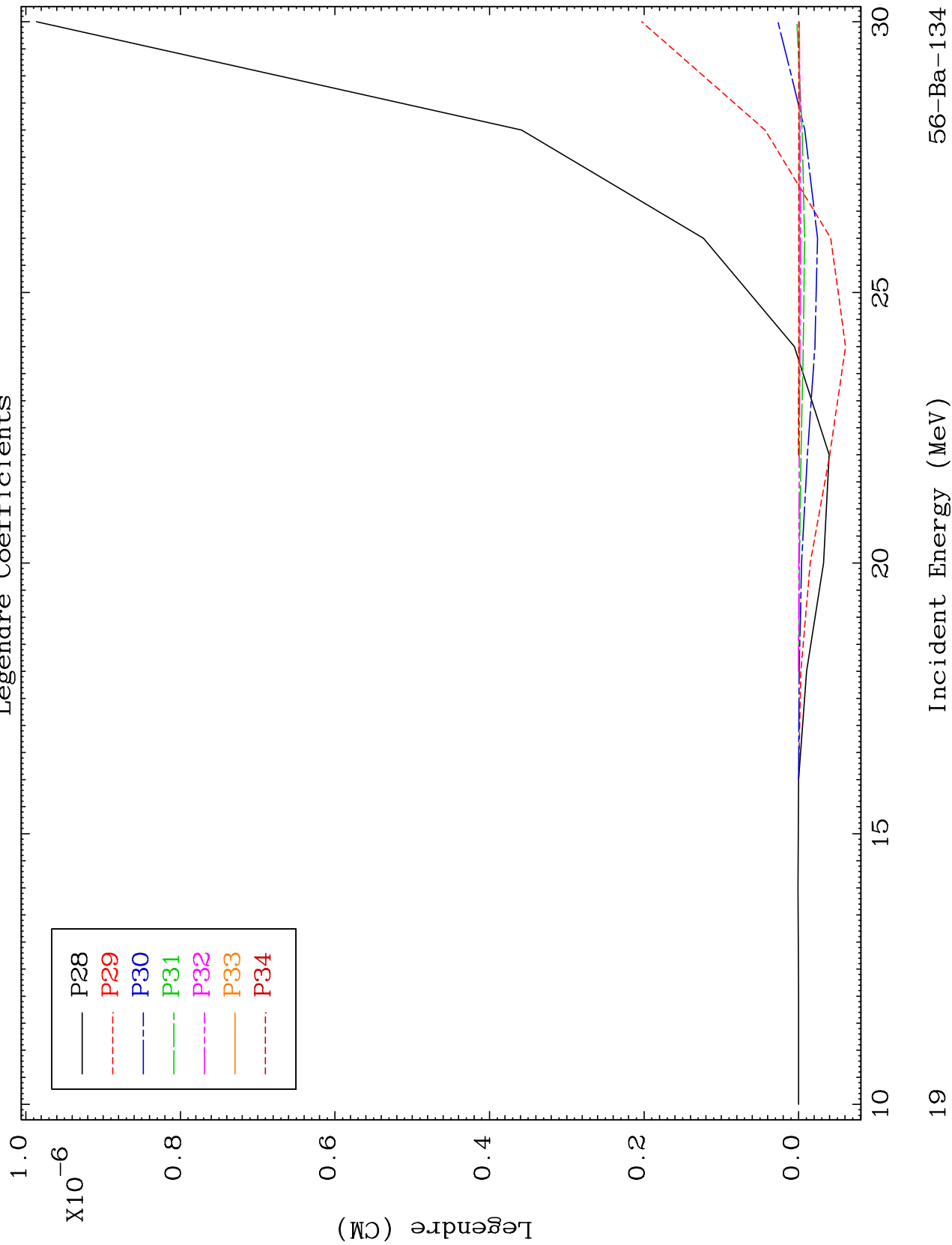
Incident Energy (MeV)

56-Ba-134

MAT 5637

Elastic Legendre Coefficients

56-Ba-134



19

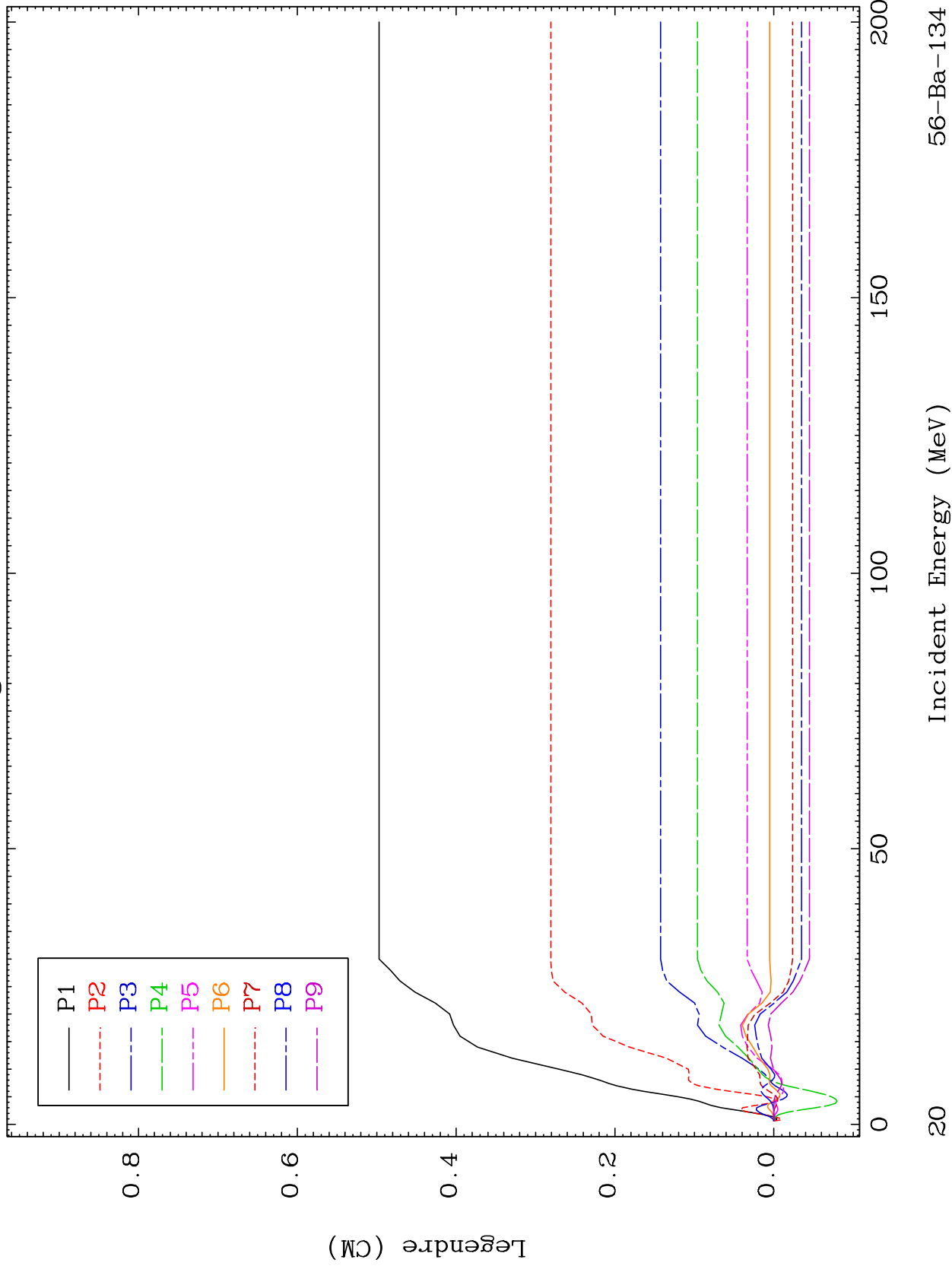
Incident Energy (MeV)

56-Ba-134

MAT 5637

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

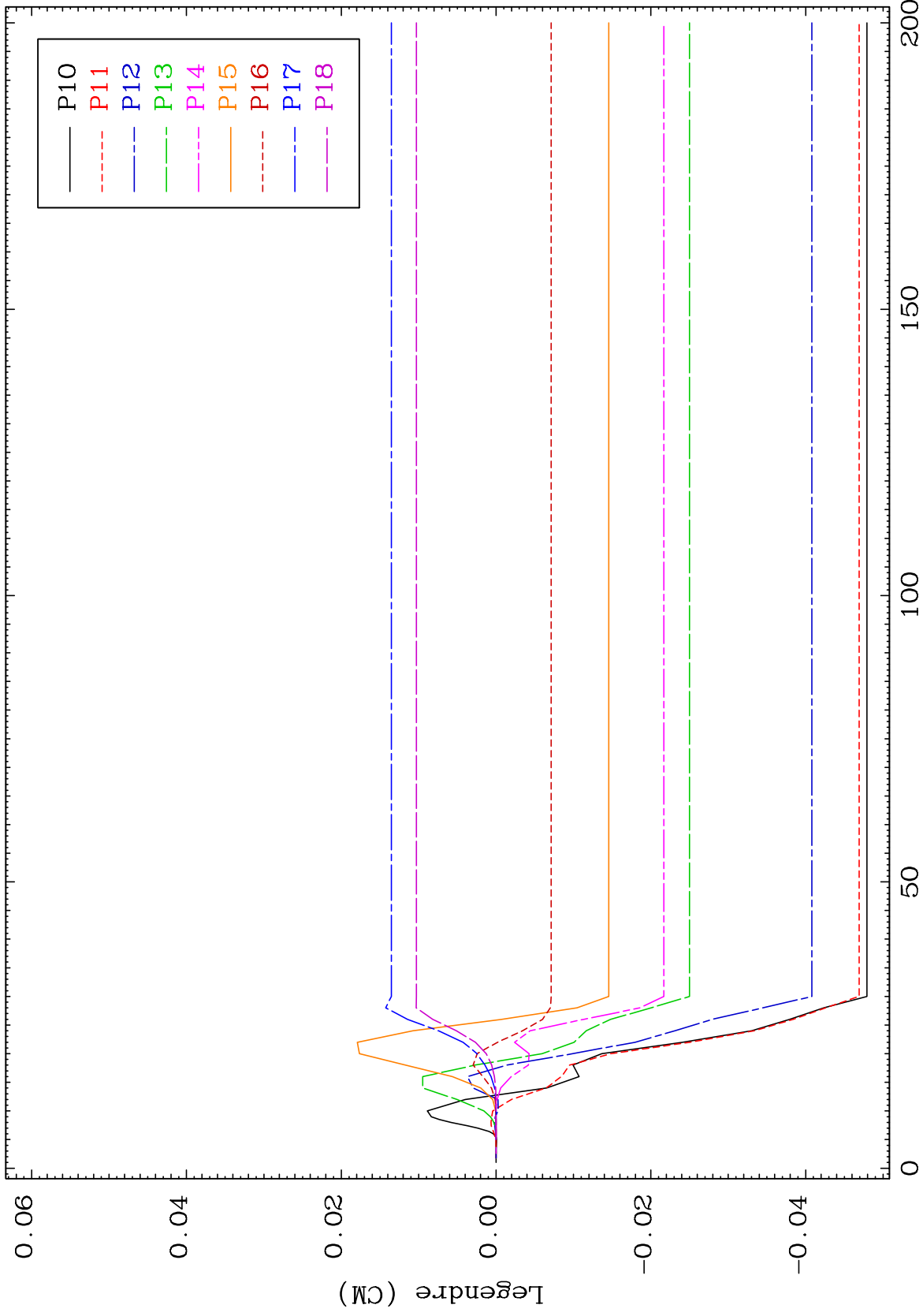
56-Ba-134



MAT 5637

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

56-Ba-134



21

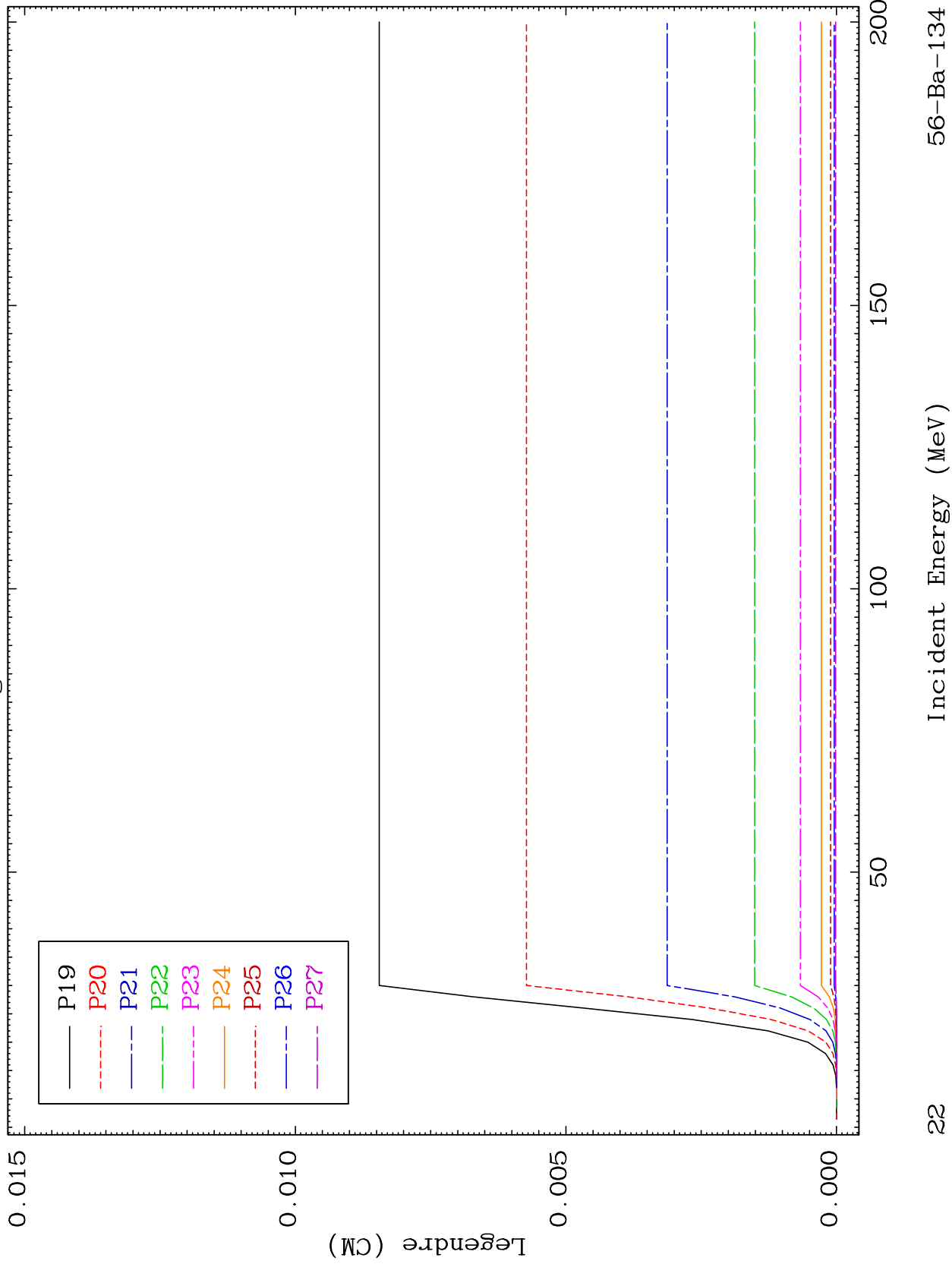
Incident Energy (MeV)

56-Ba-134

MAT 5637

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

56-Ba-134



22

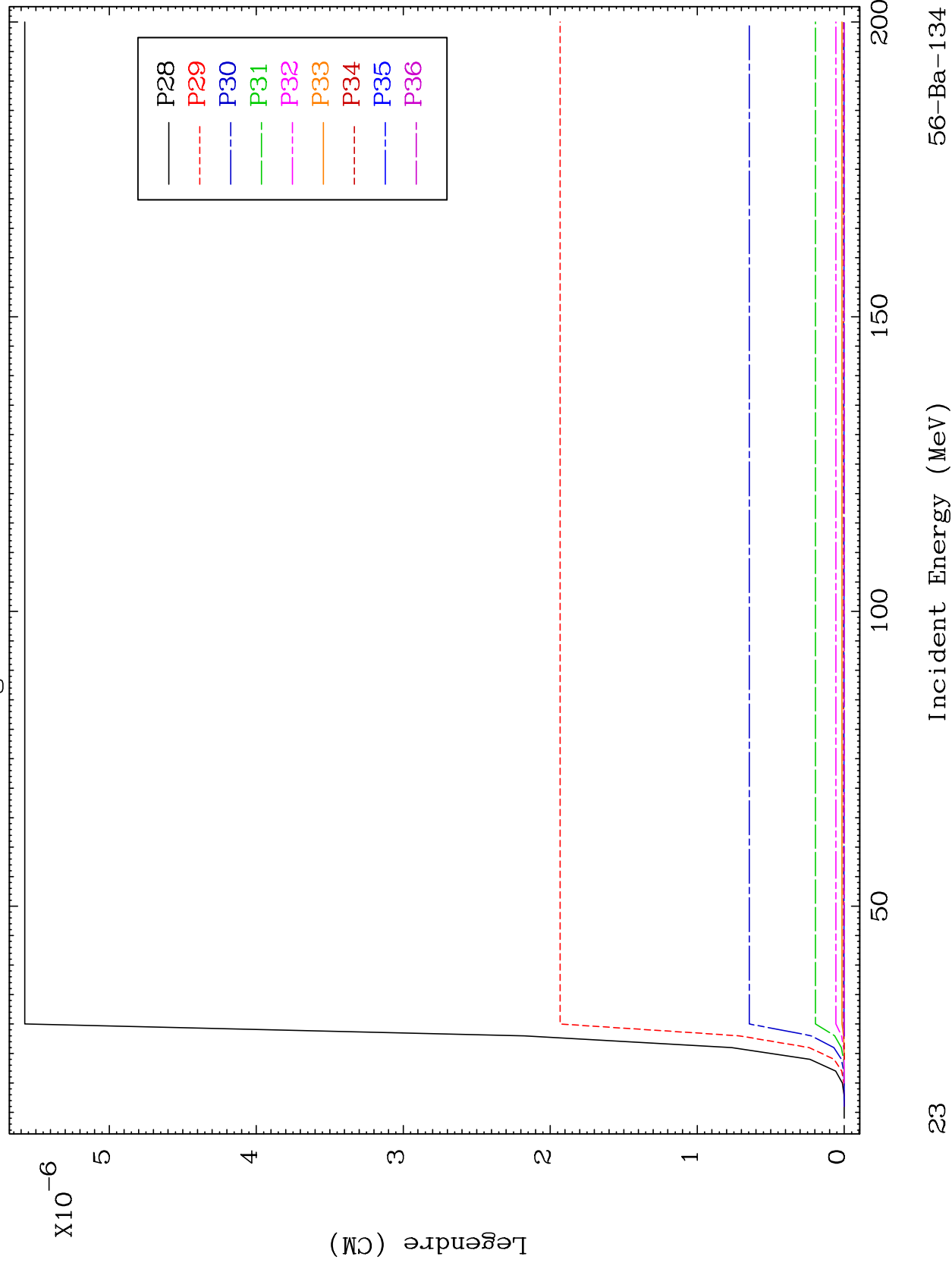
Incident Energy (MeV)

56-Ba-134

MAT 5637

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

56-Ba-134

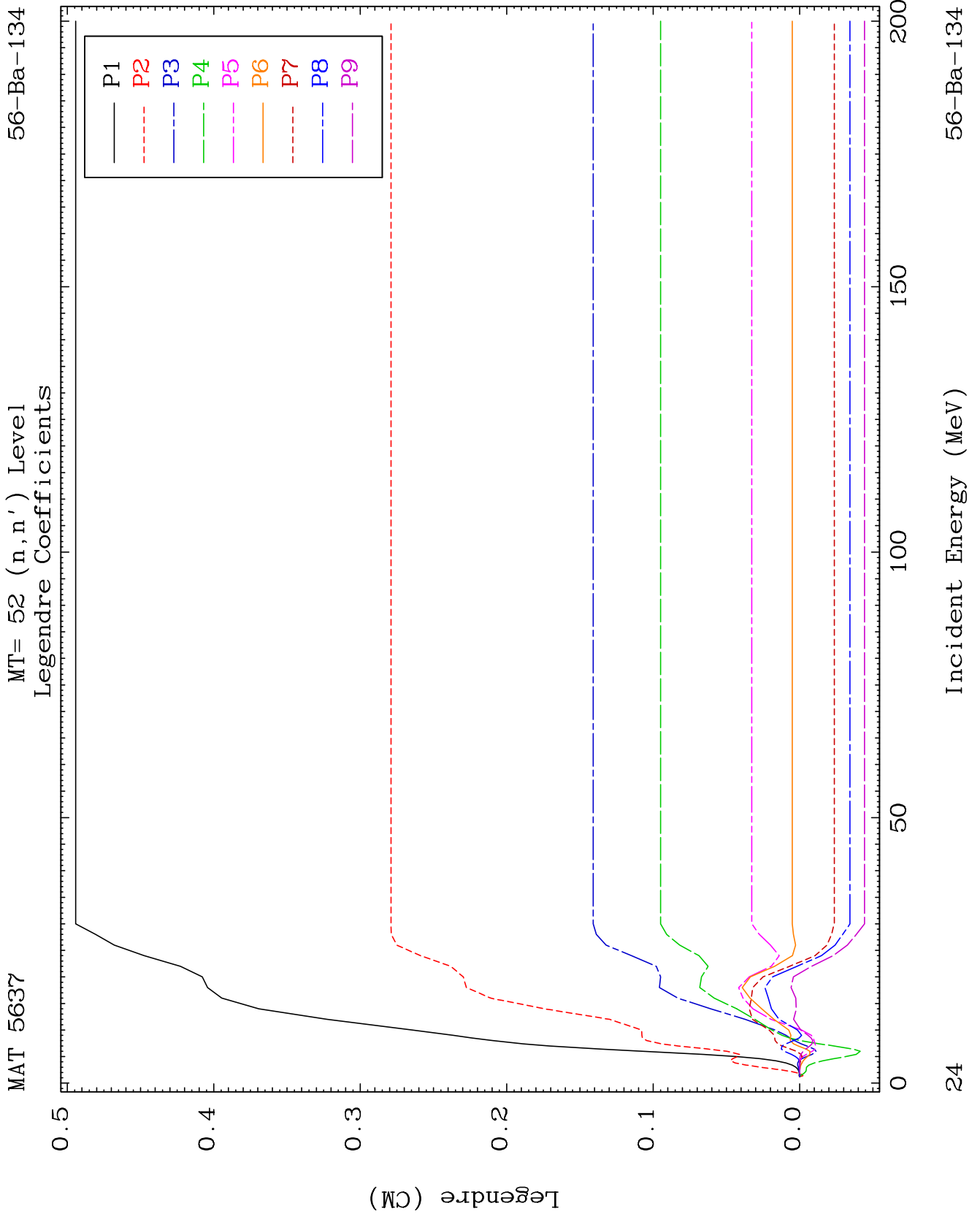


23

Incident Energy (MeV)

56-Ba-134

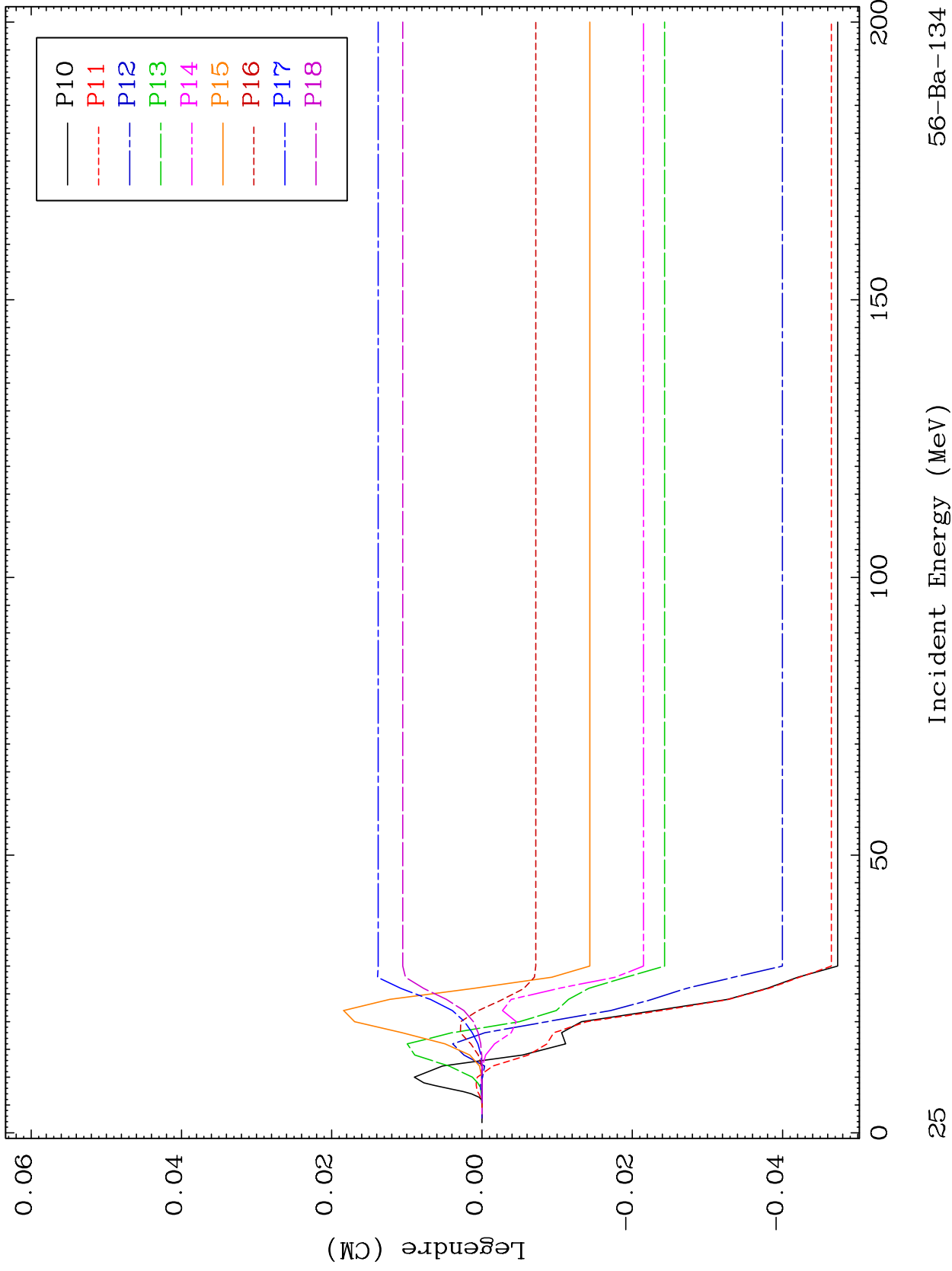




MAT 5637

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

56-Ba-134



56-Ba-134

Incident Energy (MeV)

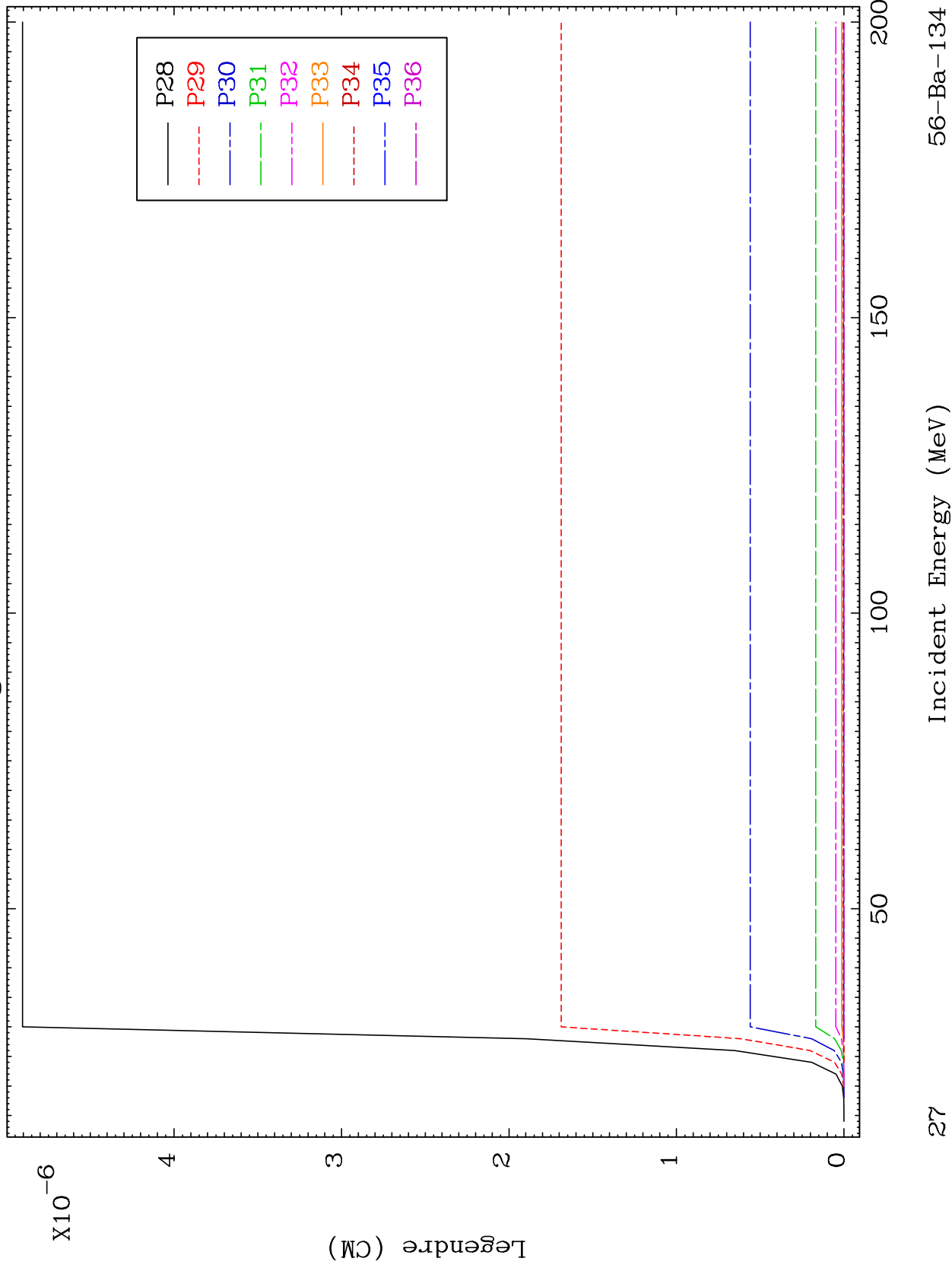
25



MAT 5637

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

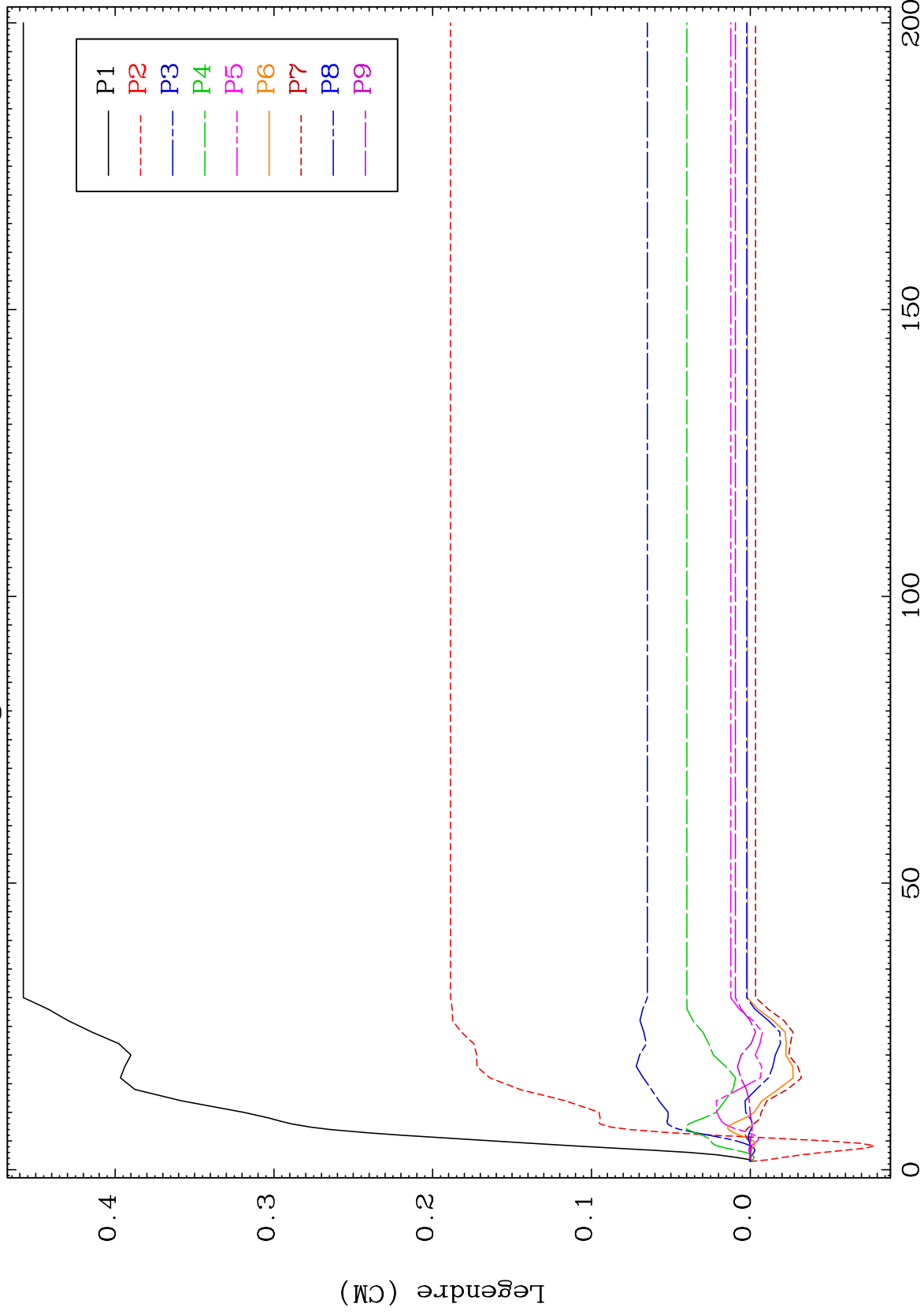
56-Ba-134



MAT 5637

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

56-Ba-134



56-Ba-134

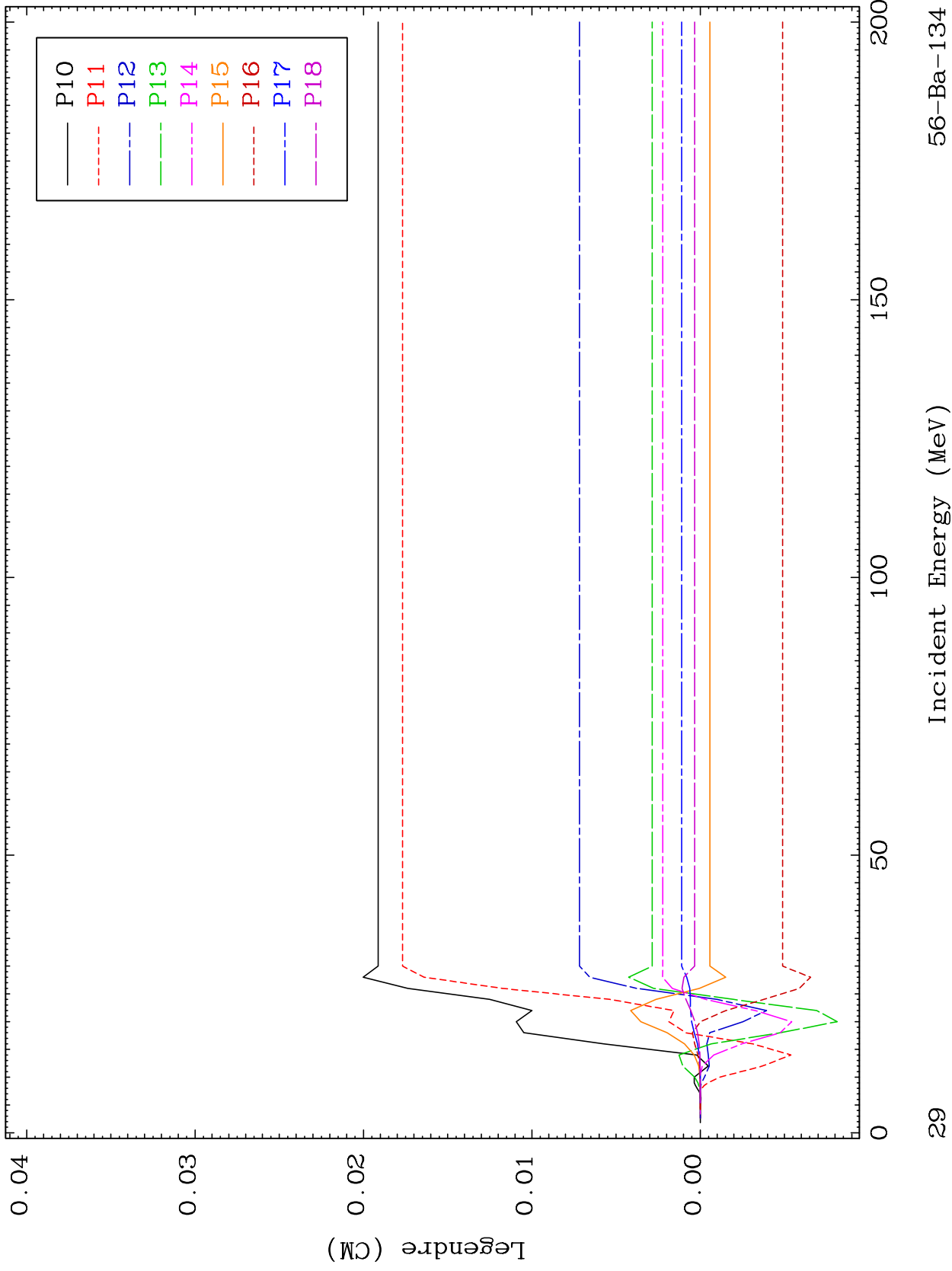
Incident Energy (MeV)

28

MAT 5637

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

56-Ba-134



29

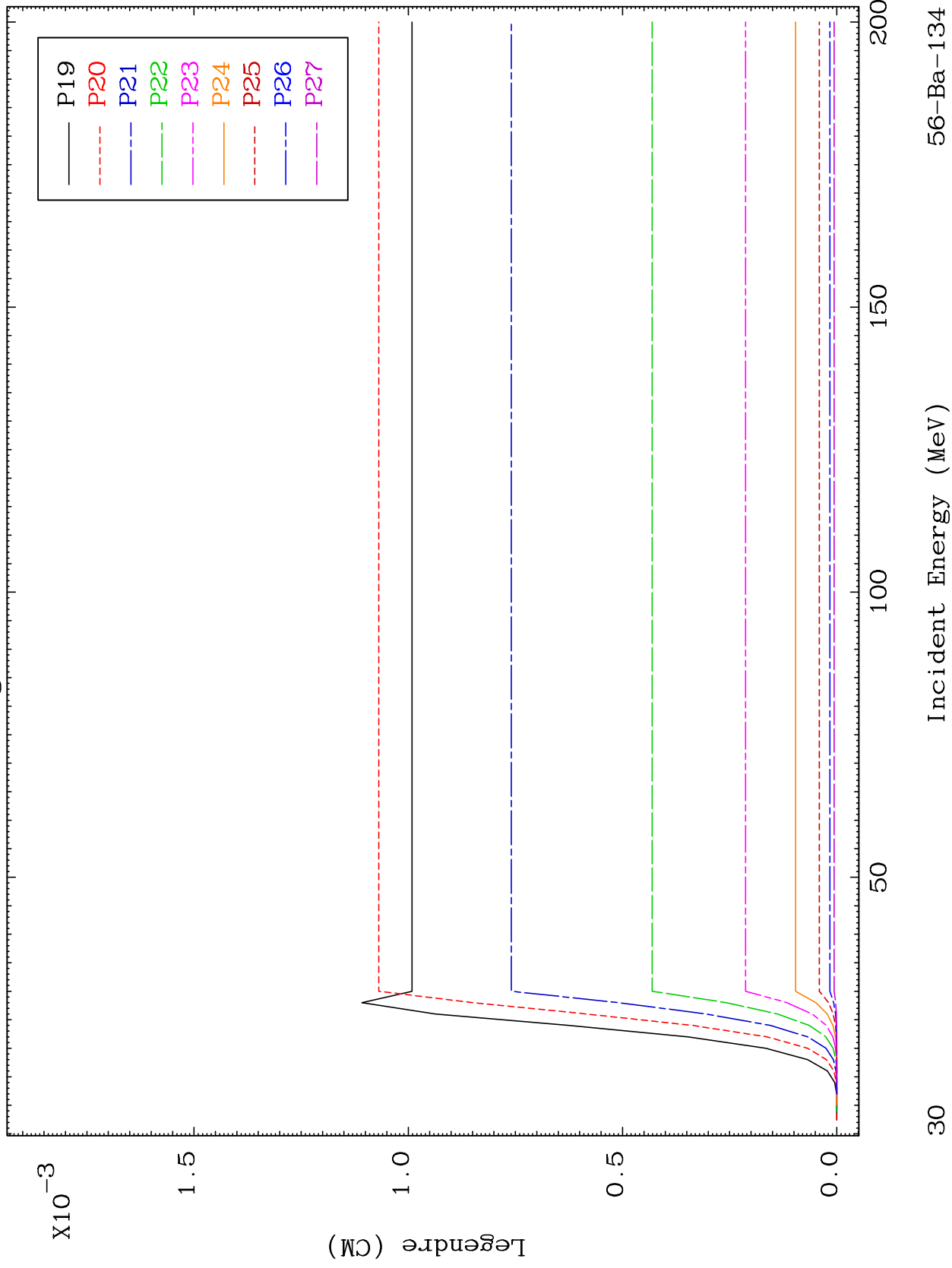
Incident Energy (MeV)

56-Ba-134

MAT 5637

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

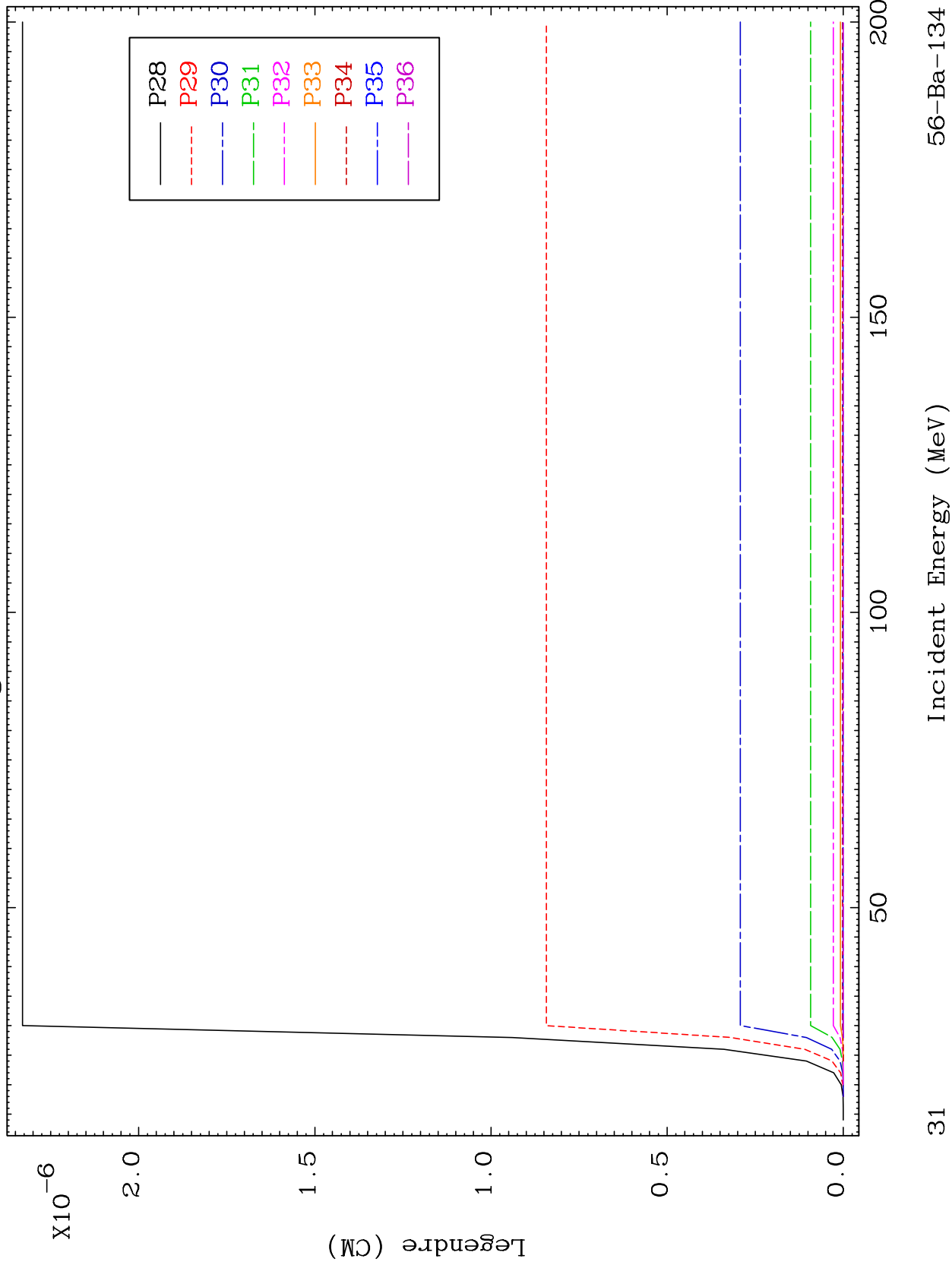
56-Ba-134



MAT 5637

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

56-Ba-134

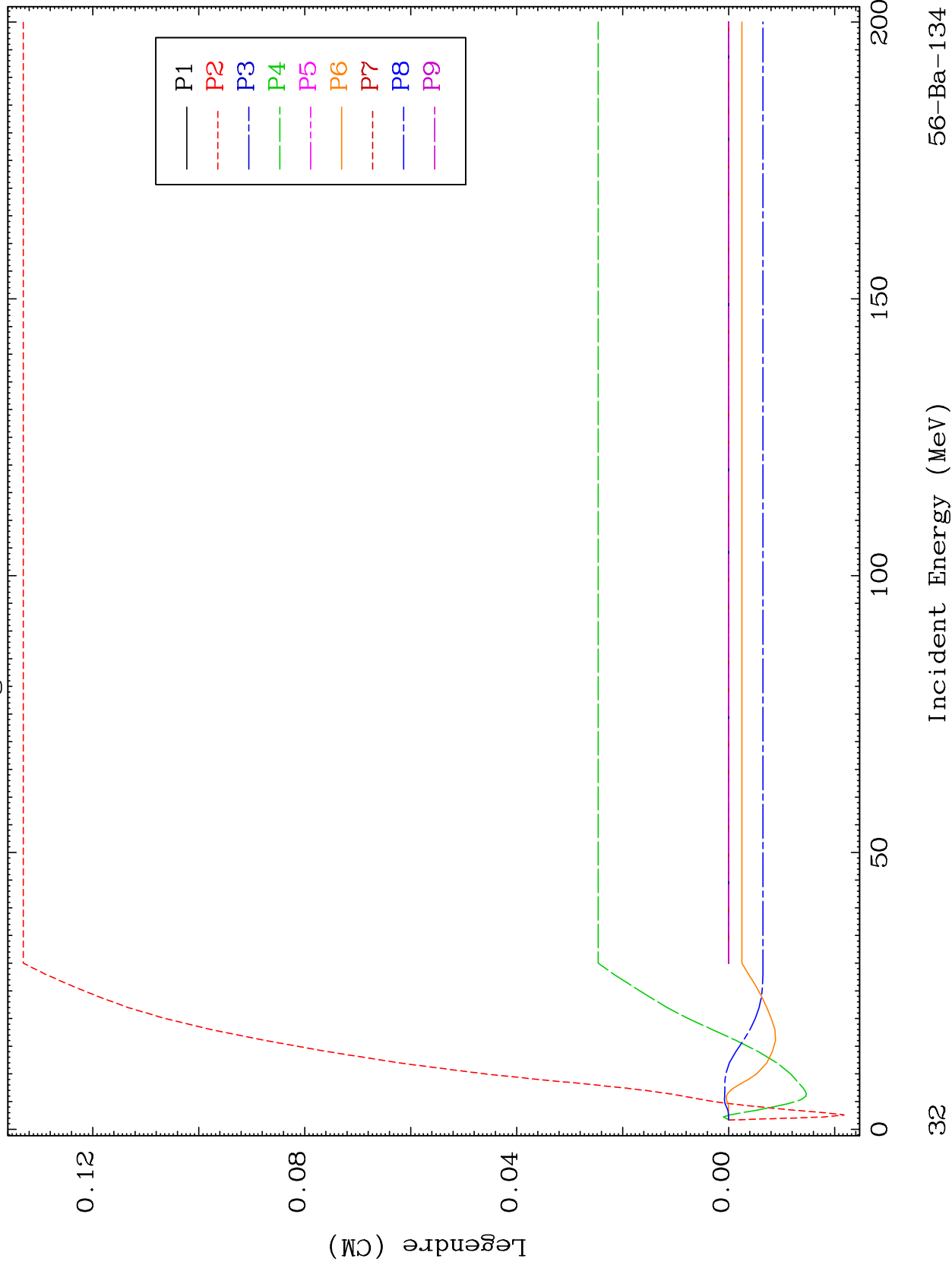




MAT 5637

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

56-Ba-134



56-Ba-134

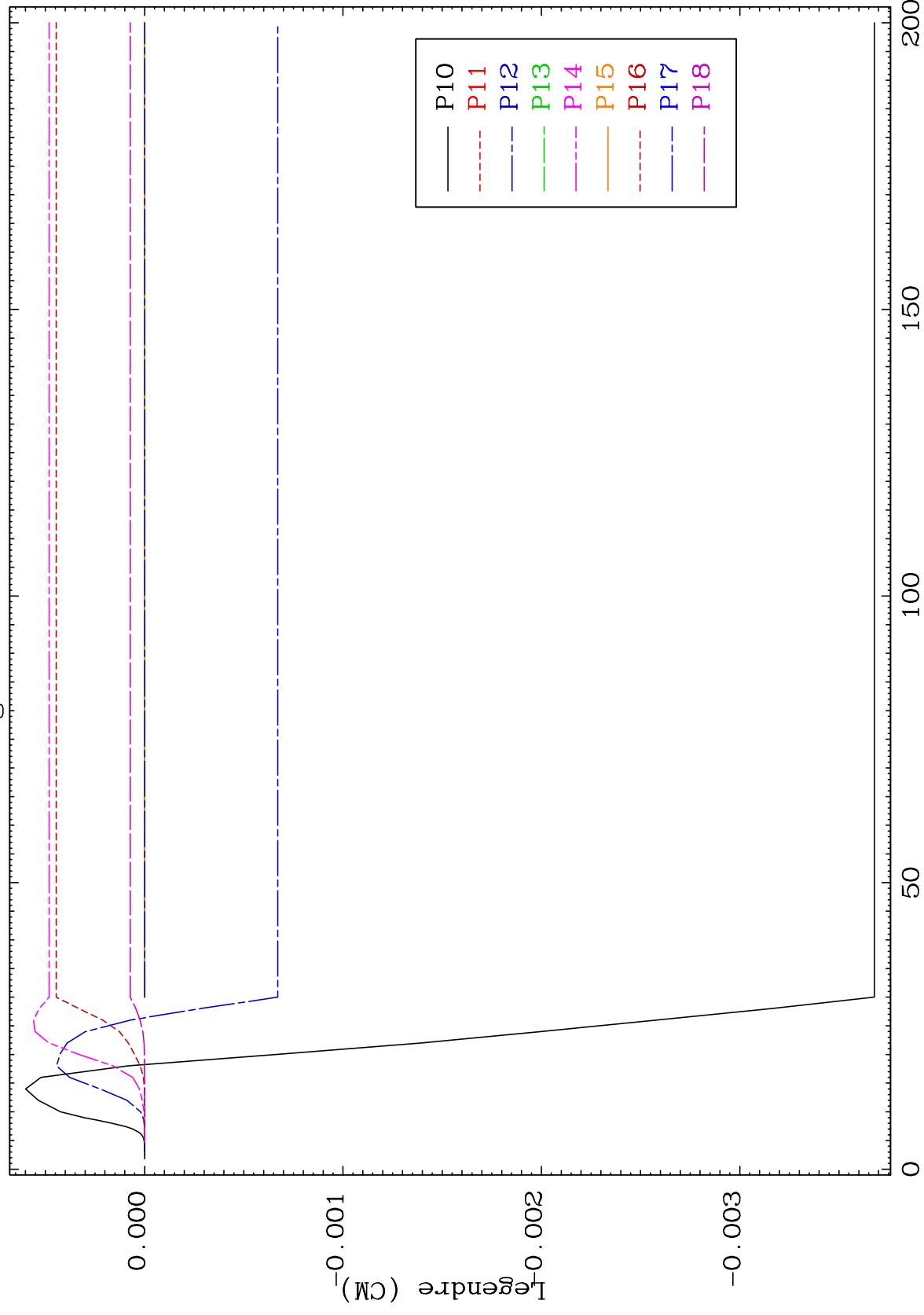
Incident Energy (MeV)

32

MAT 5637

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

56-Ba-134

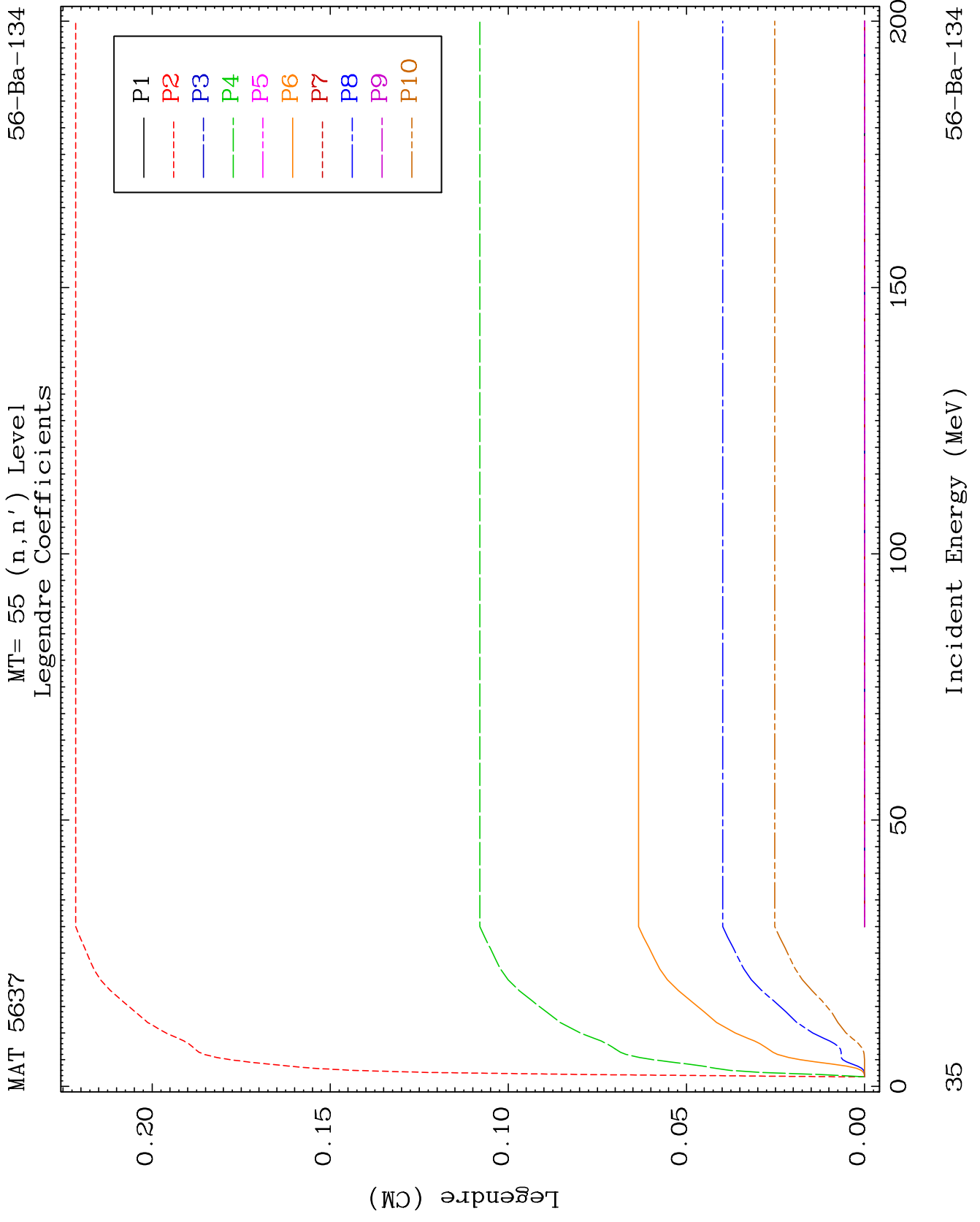


33

Incident Energy (MeV)

56-Ba-134

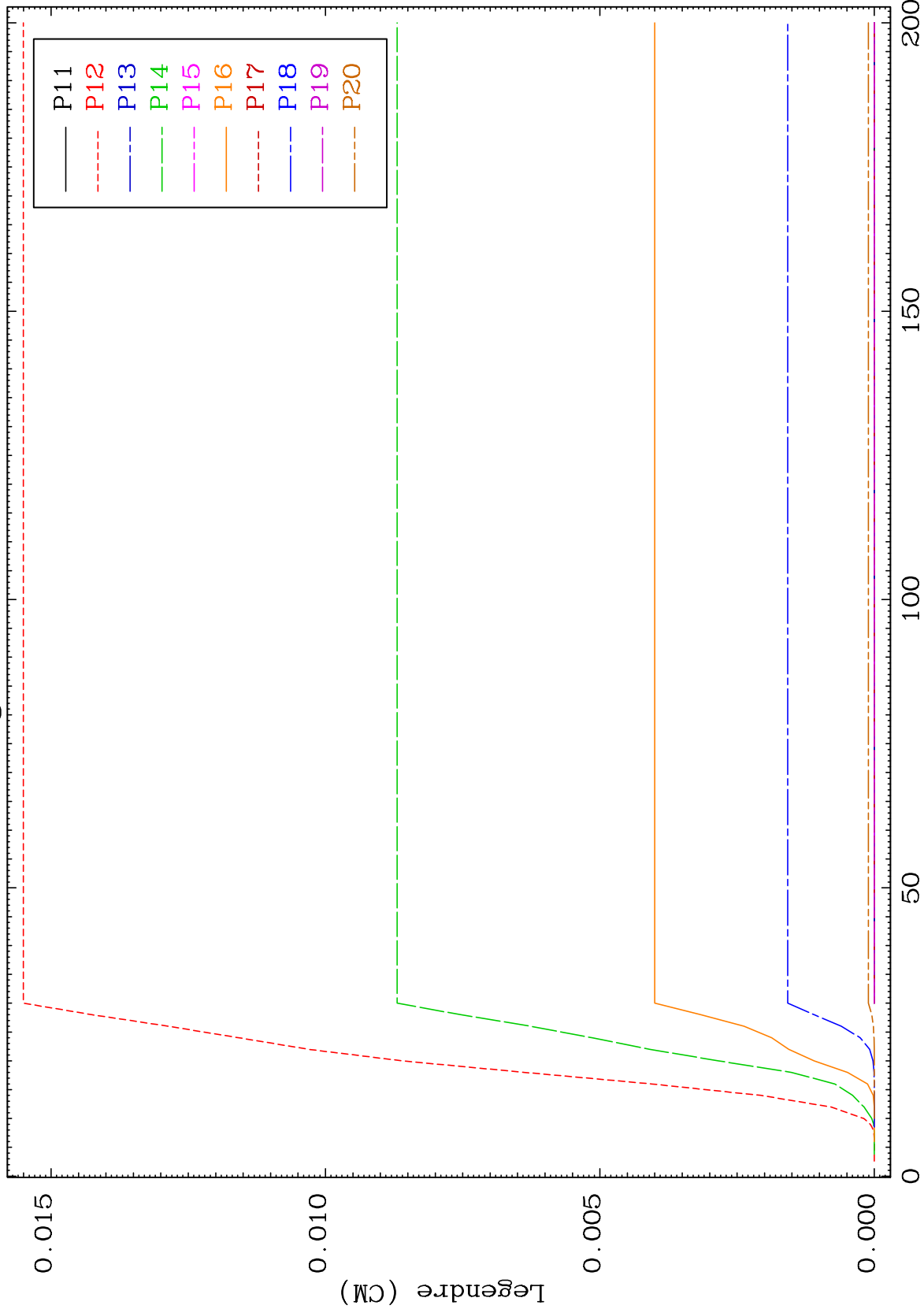




MAT 5637

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

56-Ba-134



36

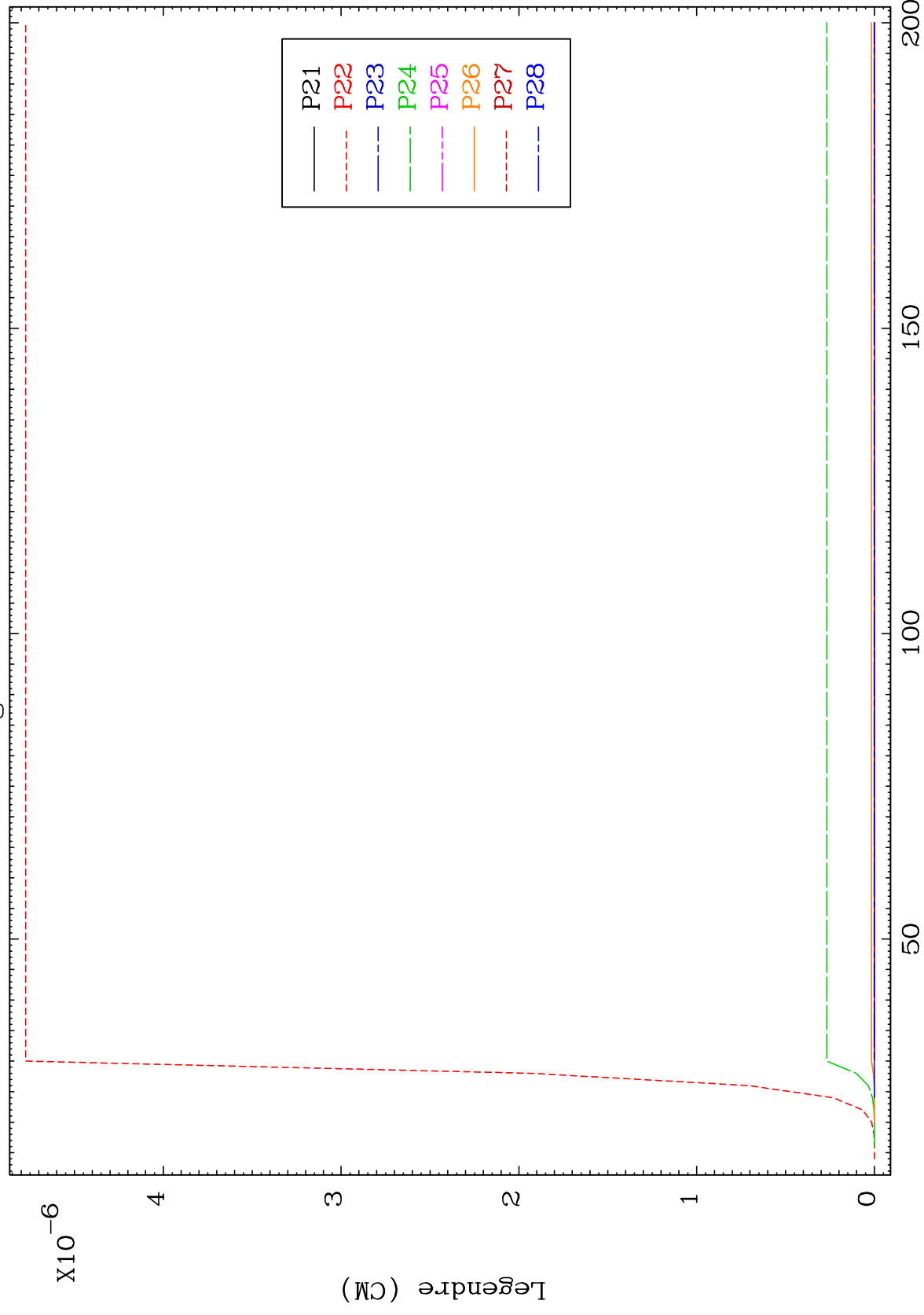
Incident Energy (MeV)

56-Ba-134

MAT 5637

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

56-Ba-134



37

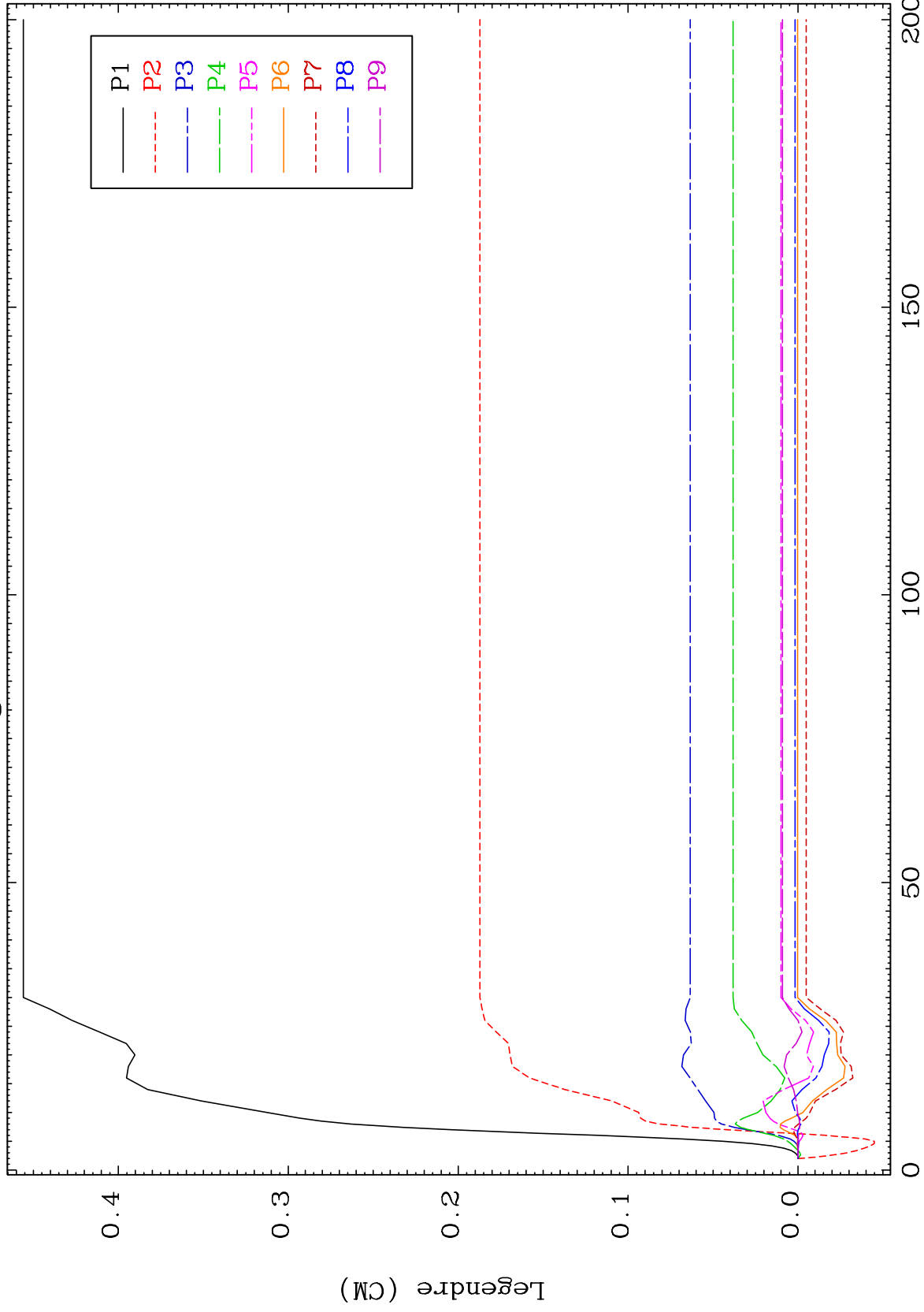
Incident Energy (MeV)

56-Ba-134

MAT 5637

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

56-Ba-134



56-Ba-134

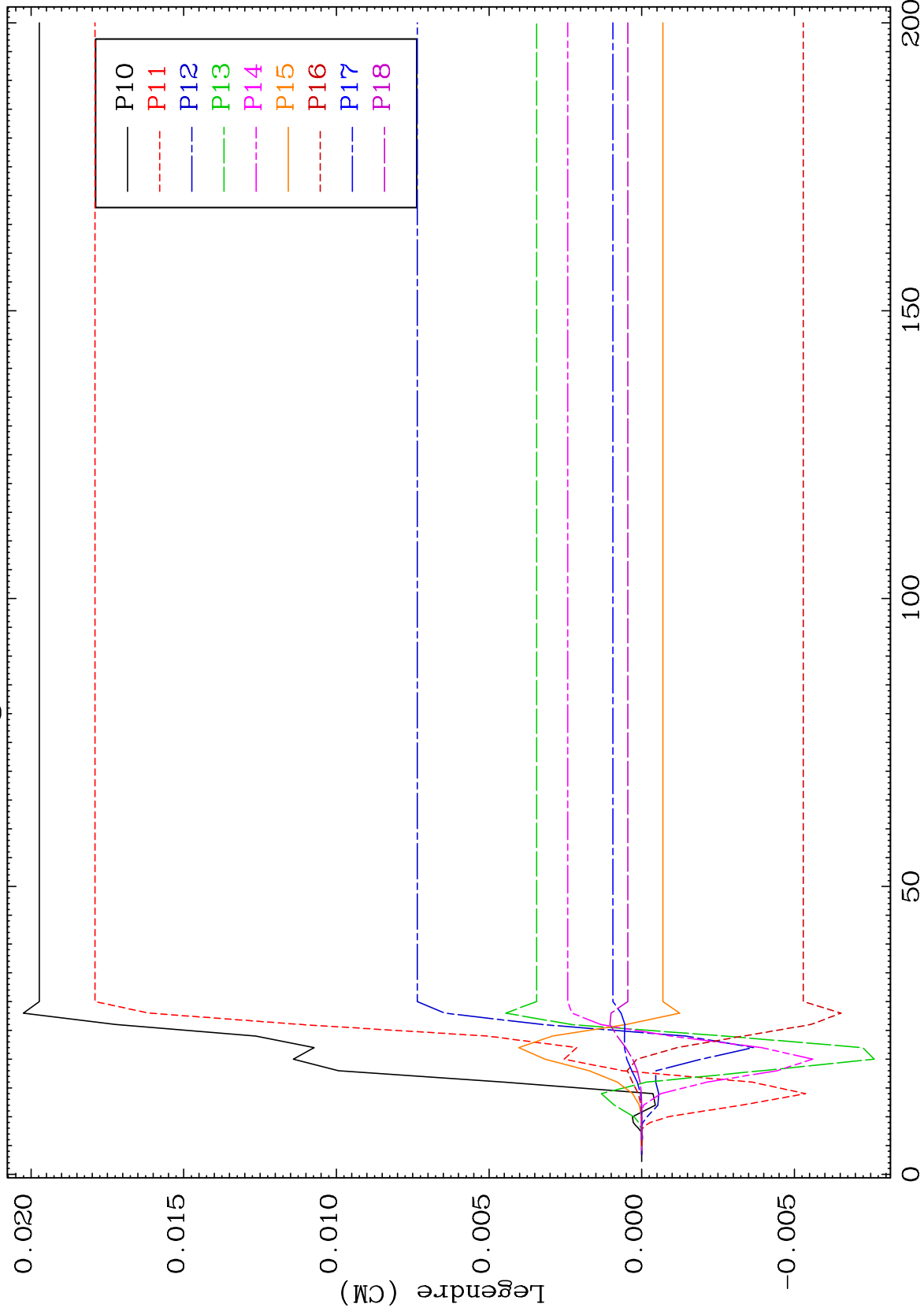
Incident Energy (MeV)

38

MAT 5637

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

56-Ba-134



39

Incident Energy (MeV)

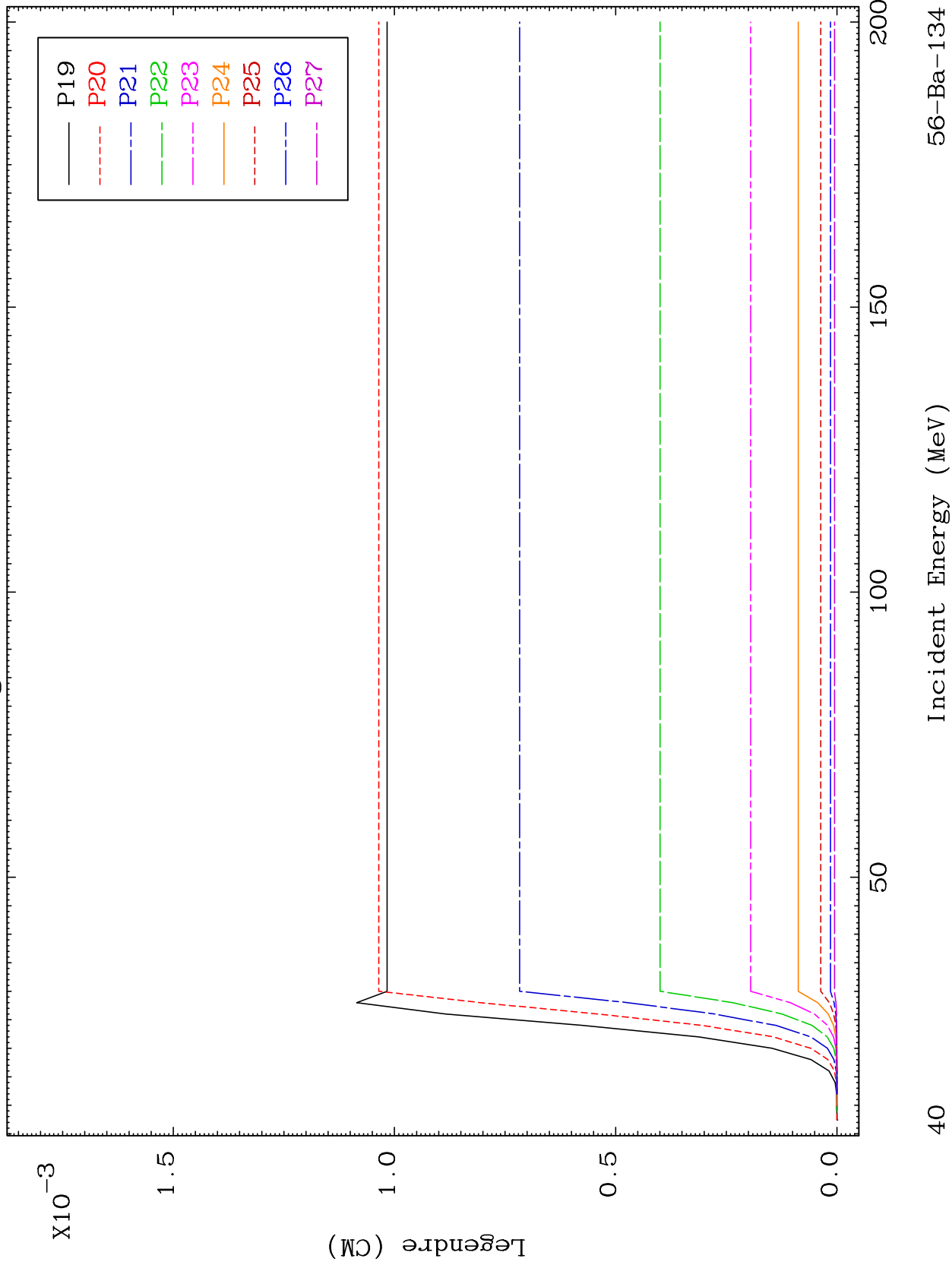
56-Ba-134



MAT 5637

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

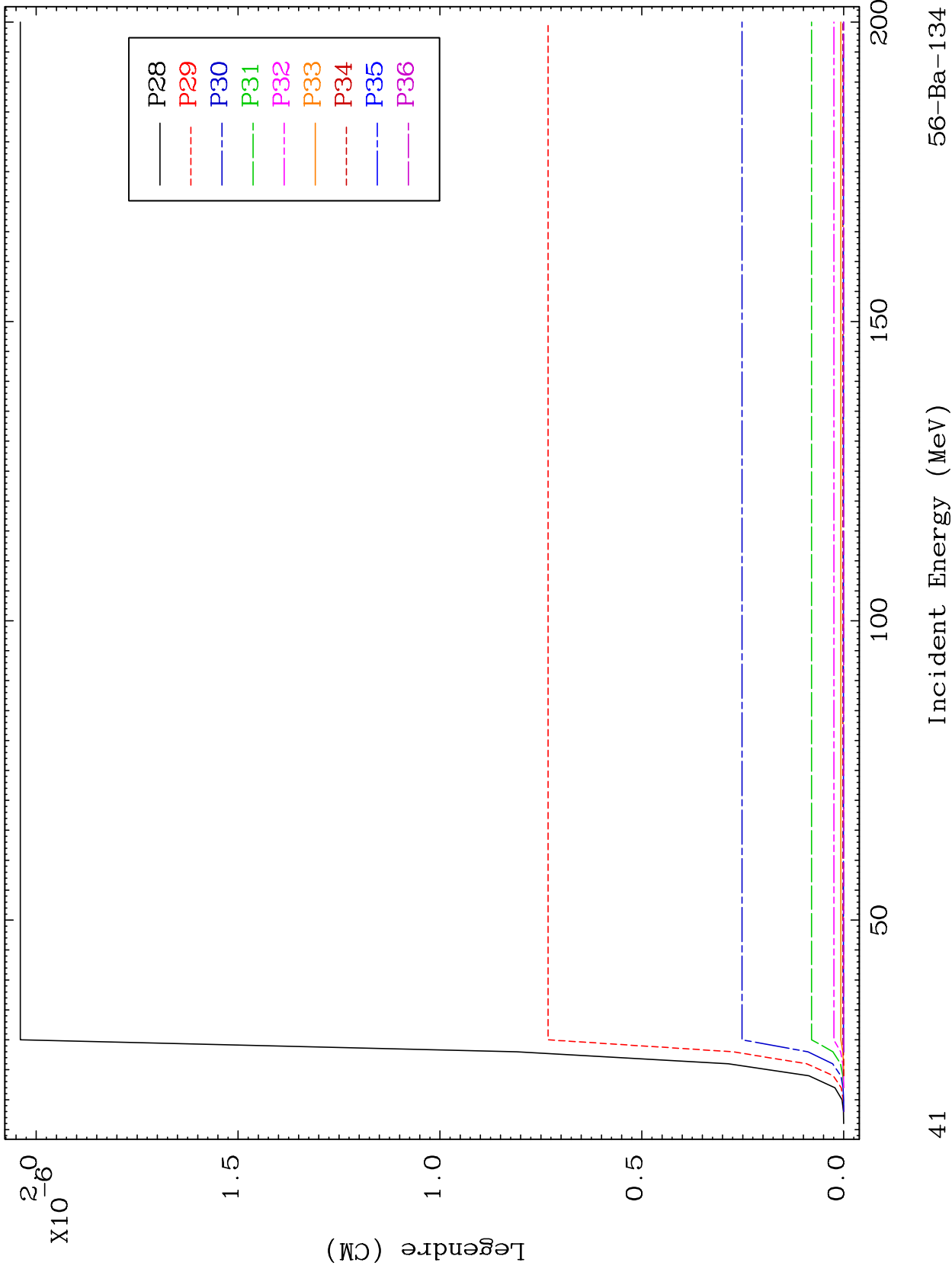
56-Ba-134



MAT 5637

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

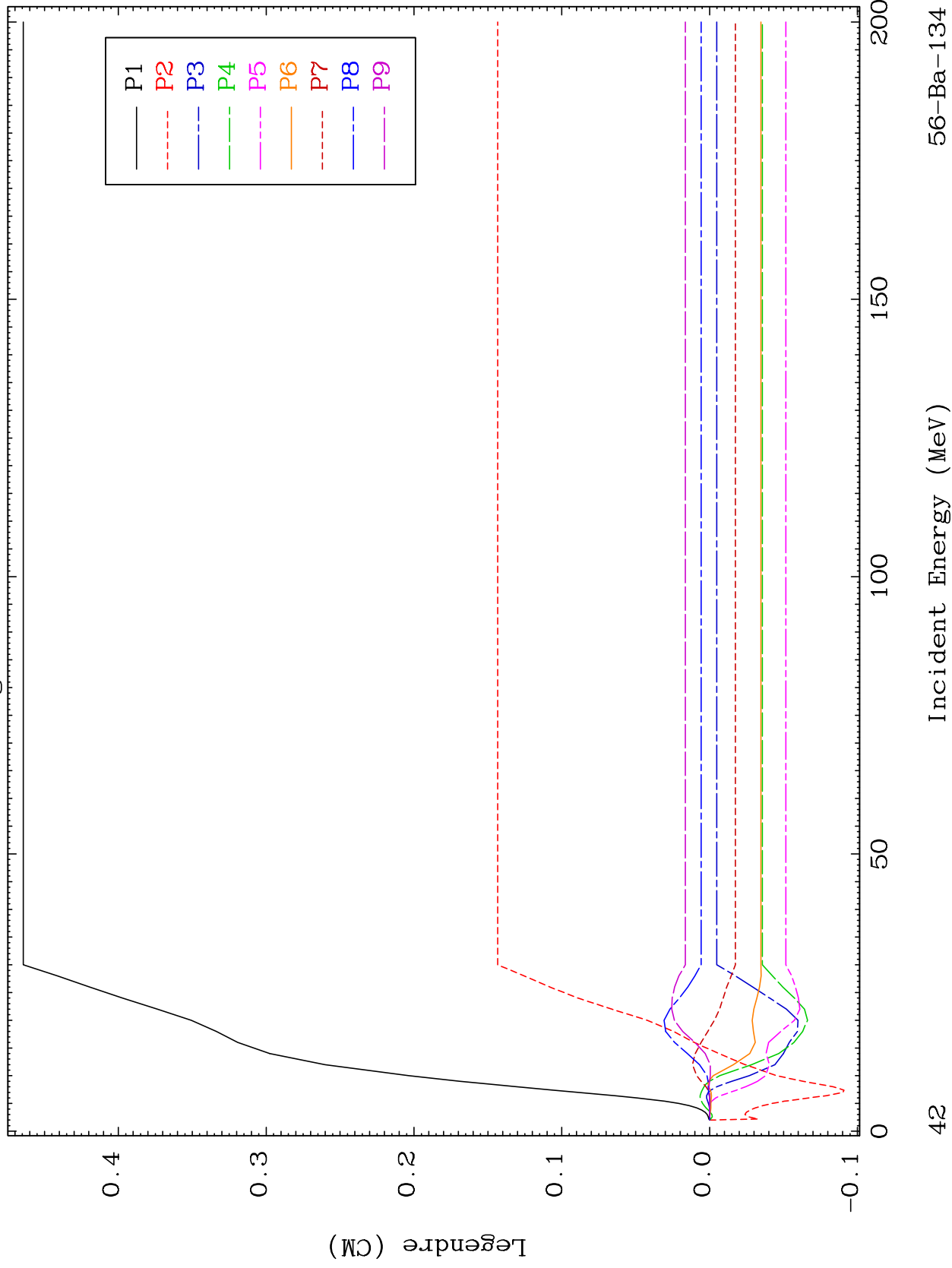
56-Ba-134



MAT 5637

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

56-Ba-134



56-Ba-134

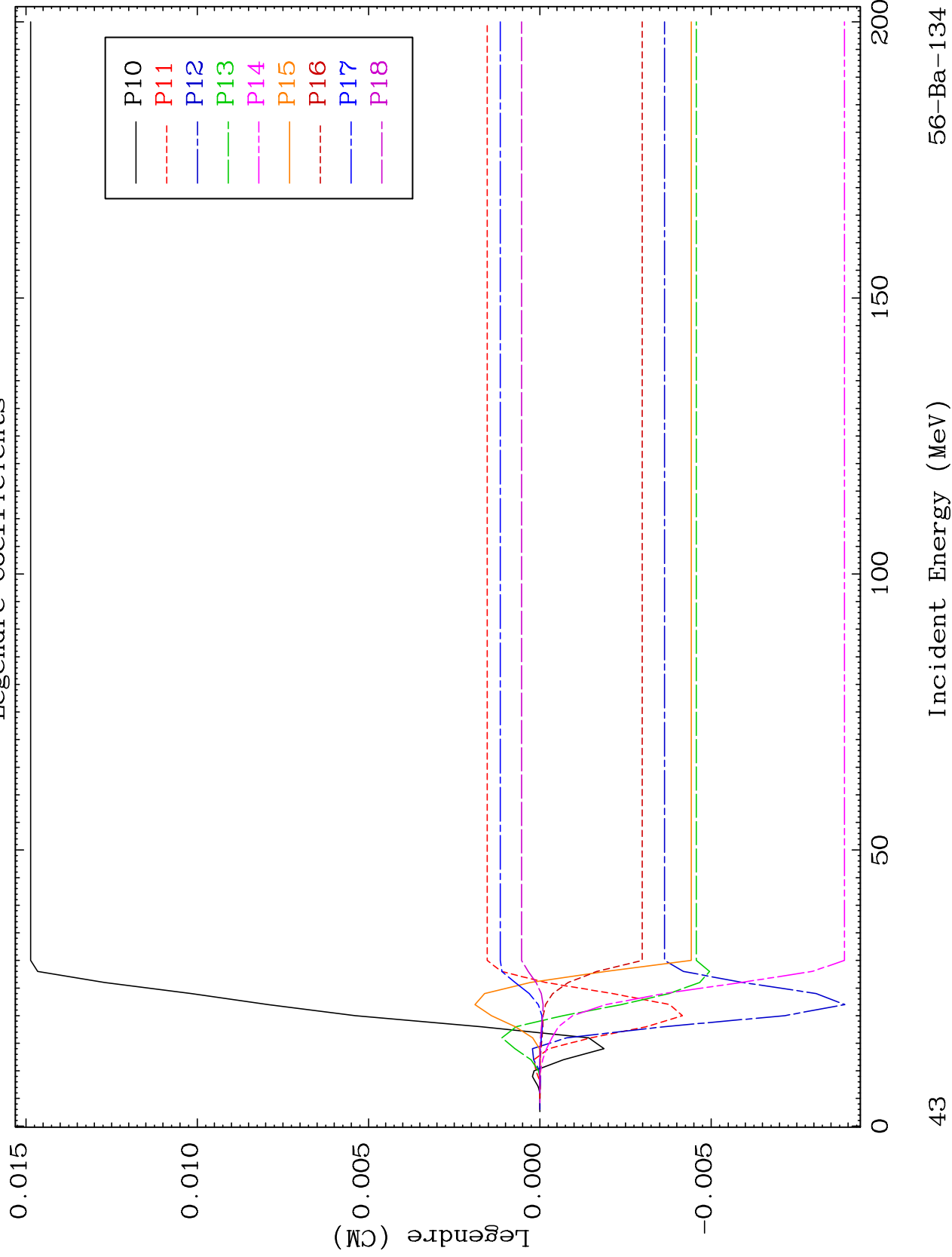
Incident Energy (MeV)

42

MAT 5637

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

56-Ba-134



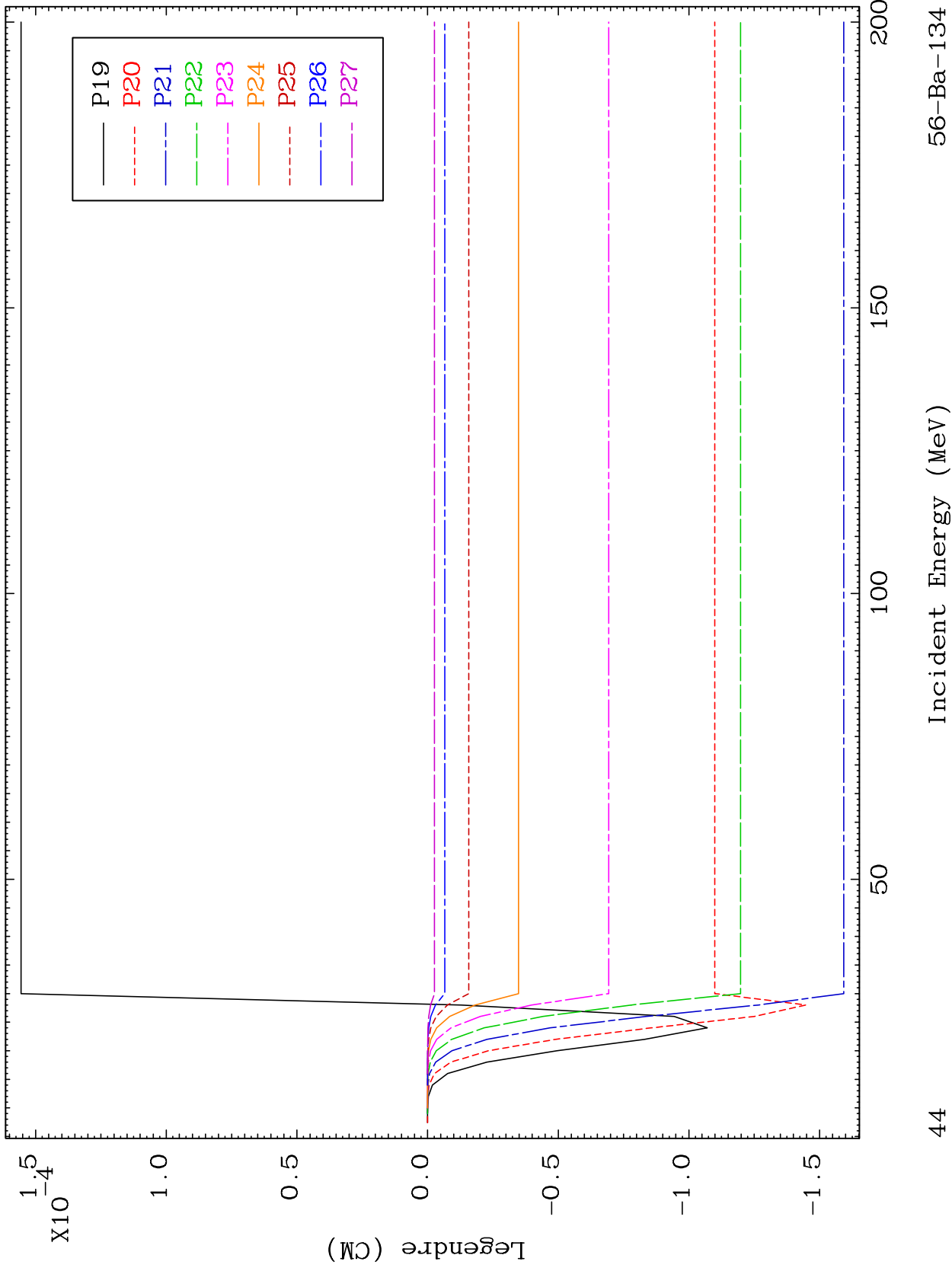
43

56-Ba-134

MAT 5637

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

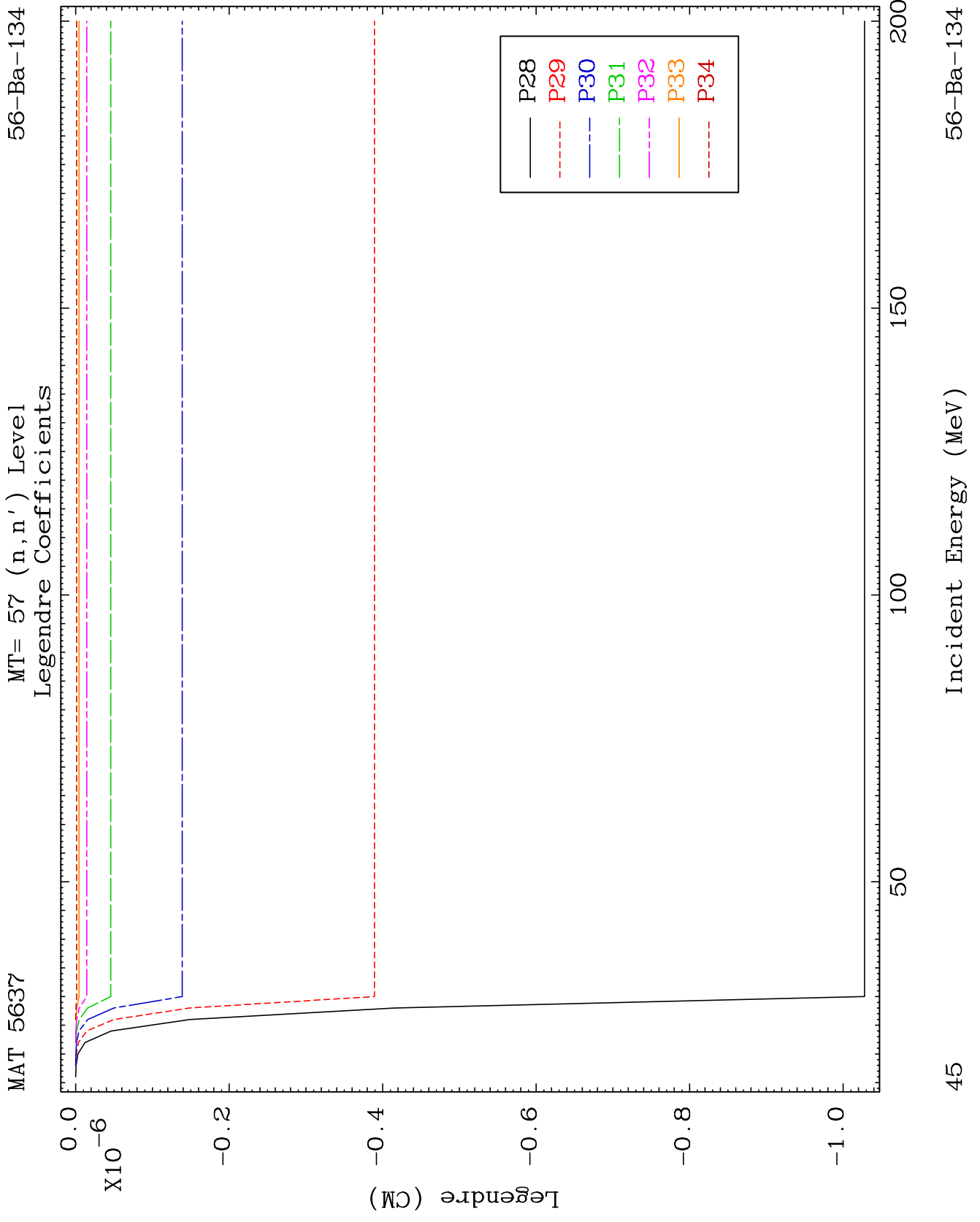
56-Ba-134



44

Incident Energy (MeV)

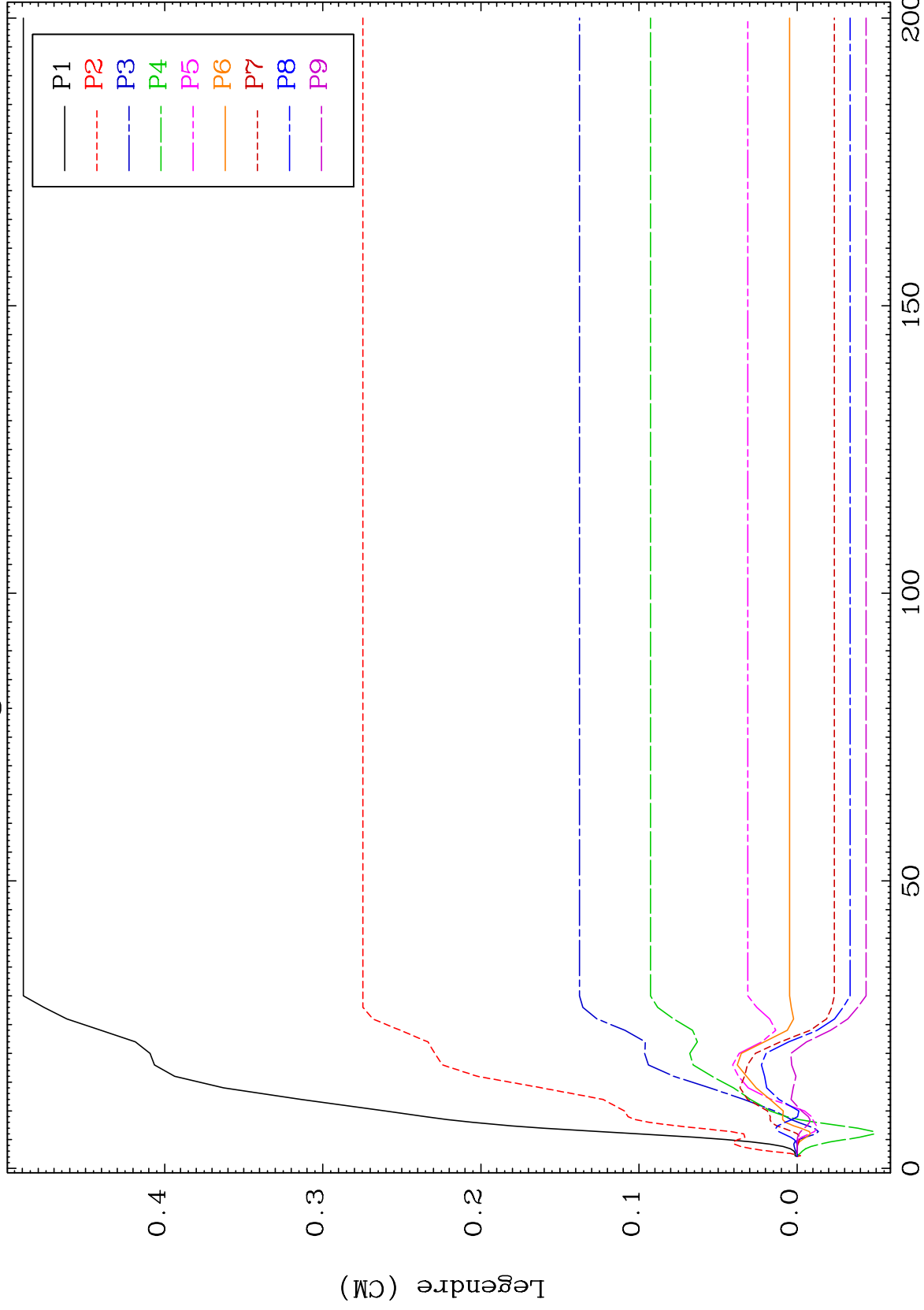
56-Ba-134



MAT 5637

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

56-Ba-134



46

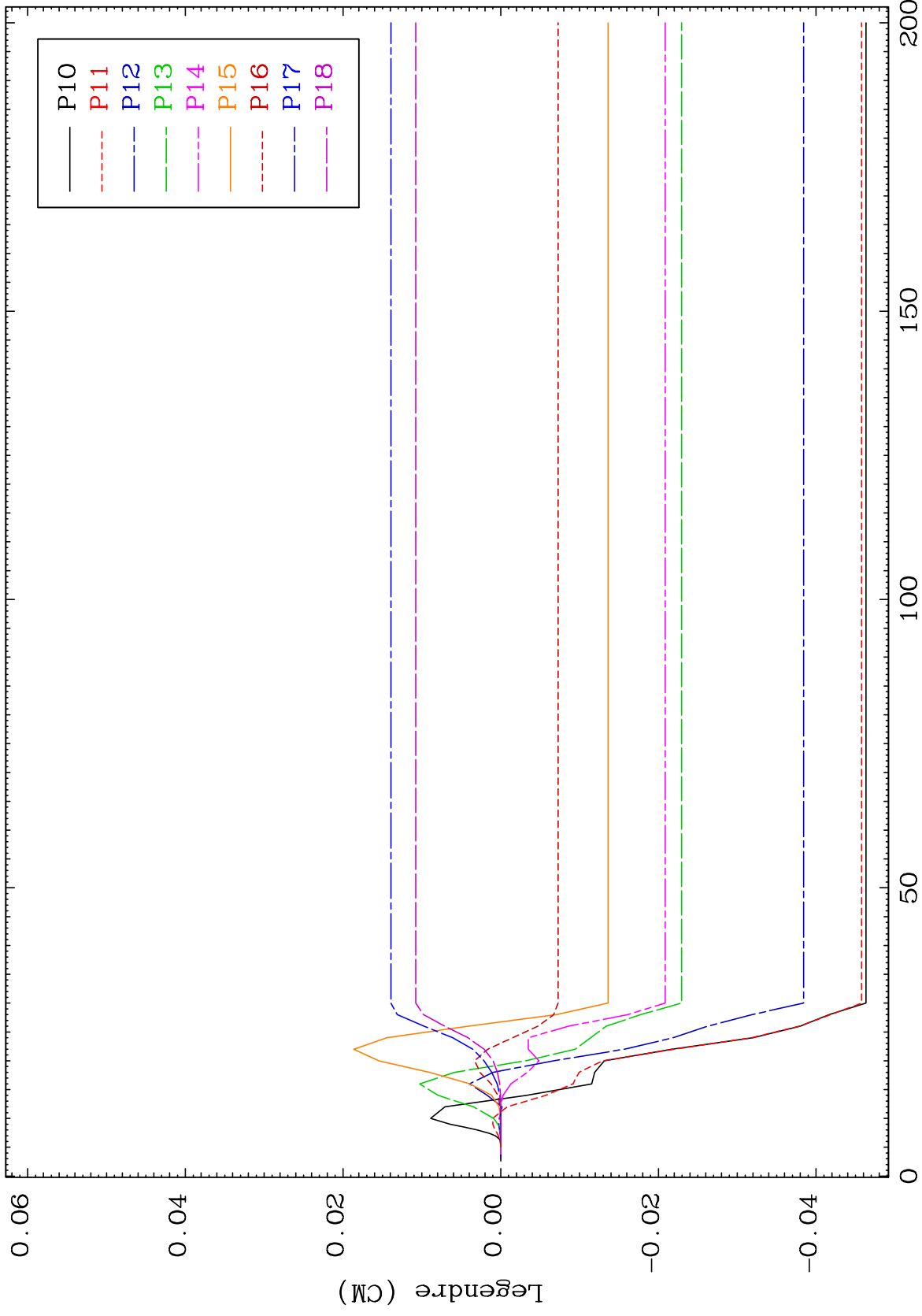
Incident Energy (MeV)

56-Ba-134

MAT 5637

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

56-Ba-134



47

Incident Energy (MeV)

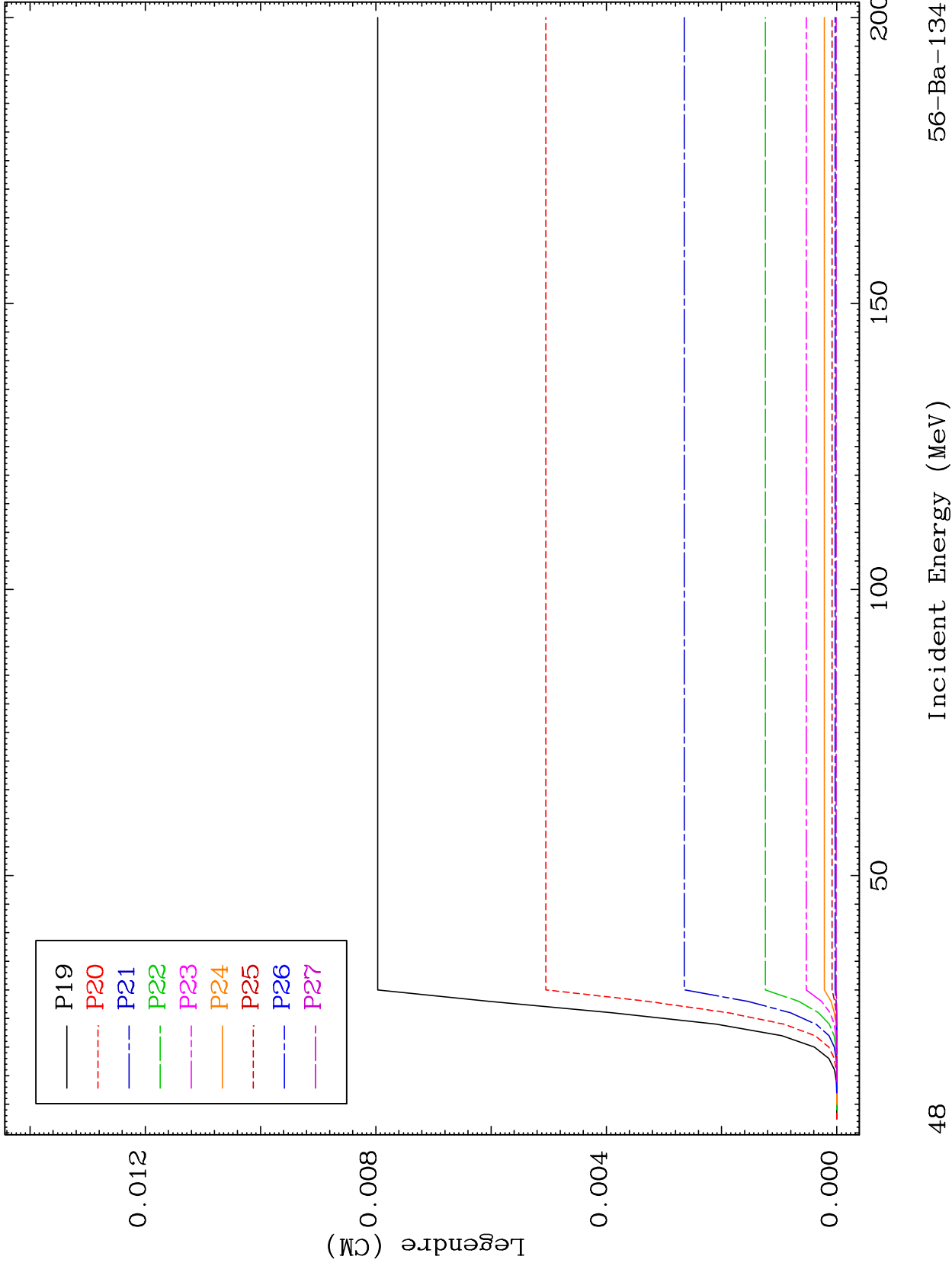
56-Ba-134



MAT 5637

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

56-Ba-134



48

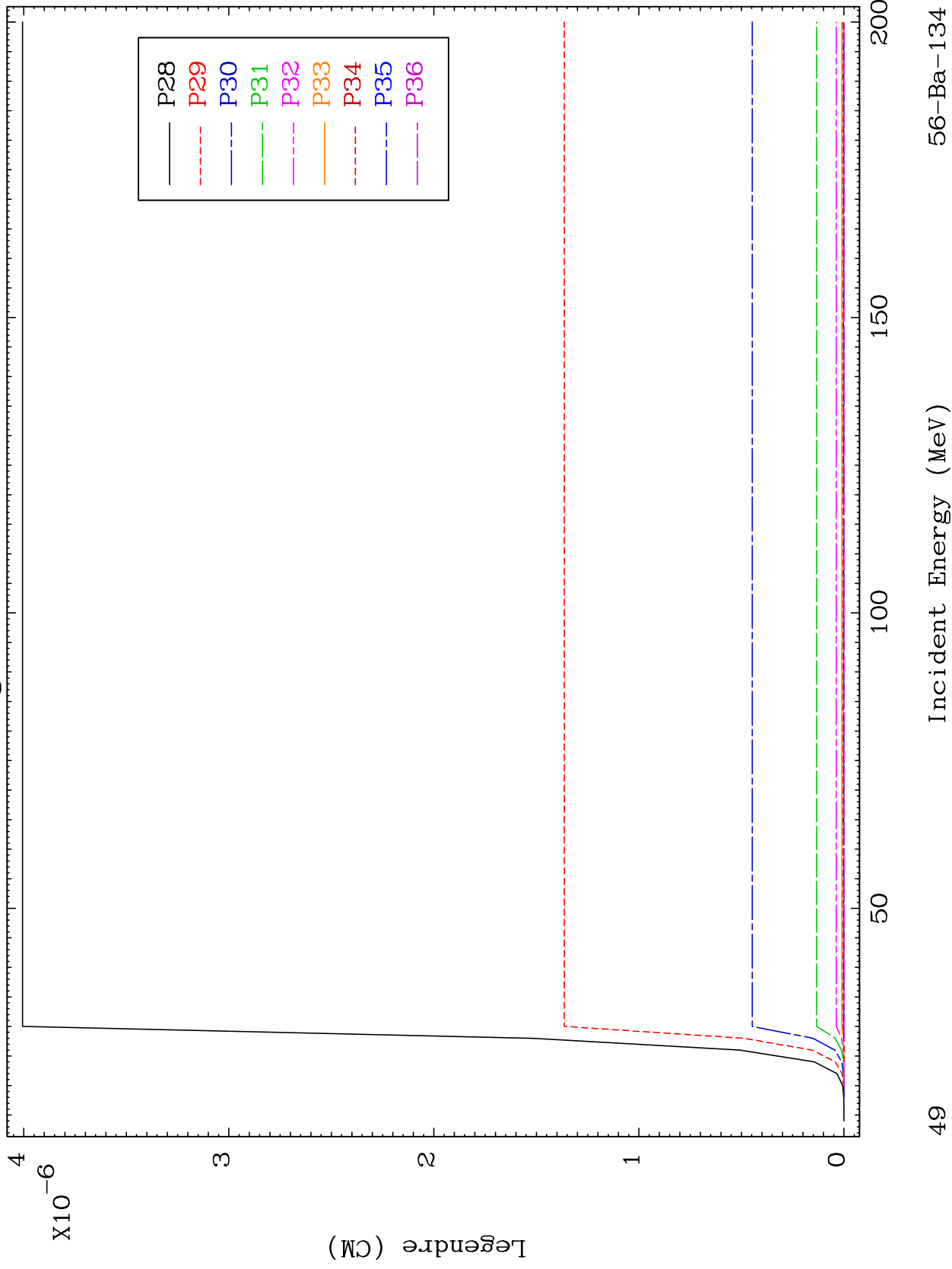
Incident Energy (MeV)

56-Ba-134

MAT 5637

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

56-Ba-134



49

Incident Energy (MeV)

56-Ba-134

200

150

100

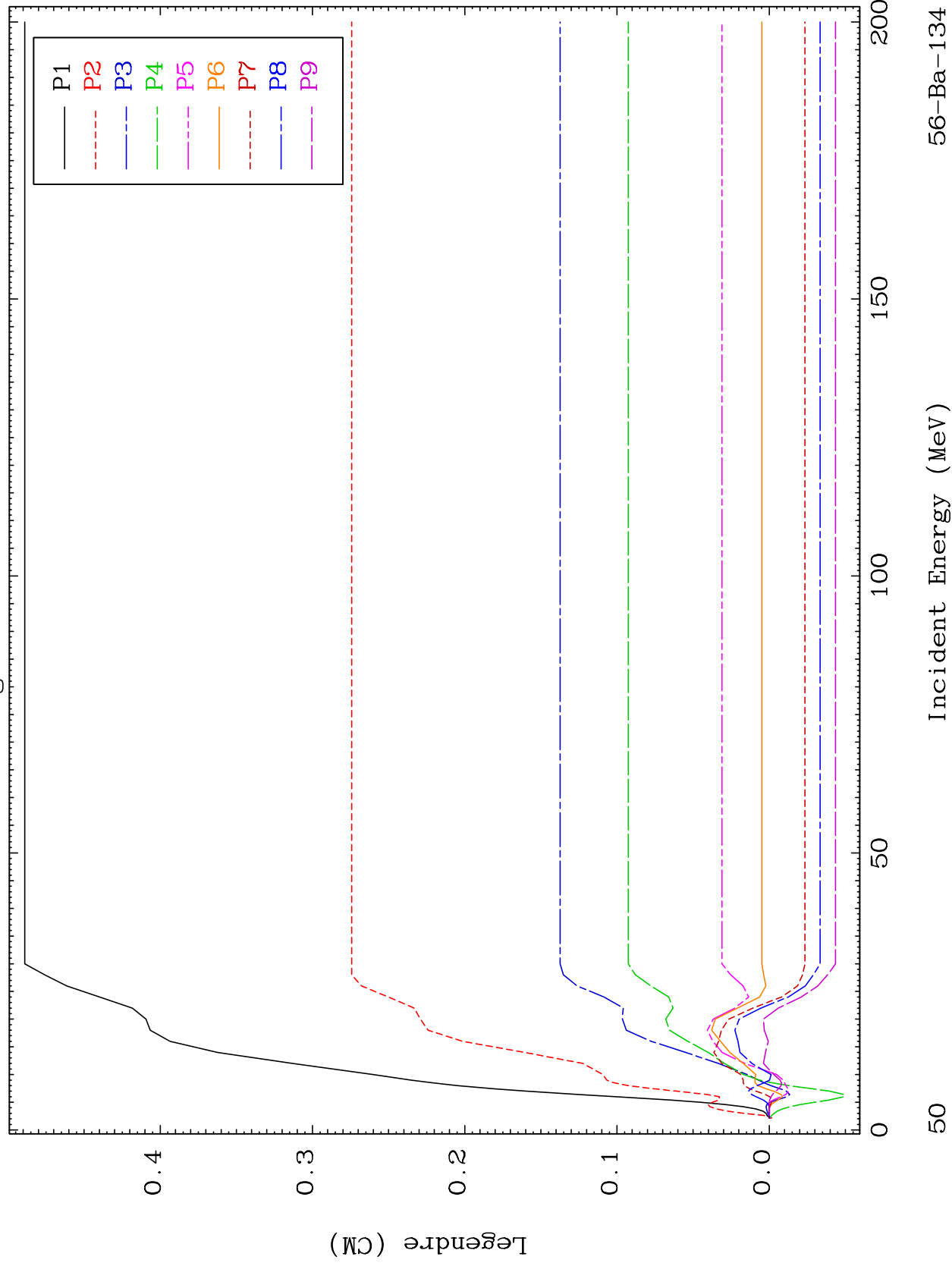
50

$\times 10^{-6}$

MAT 5637

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

56-Ba-134



56-Ba-134

Incident Energy (MeV)

0

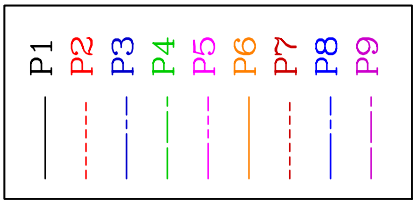
50

100

150

200

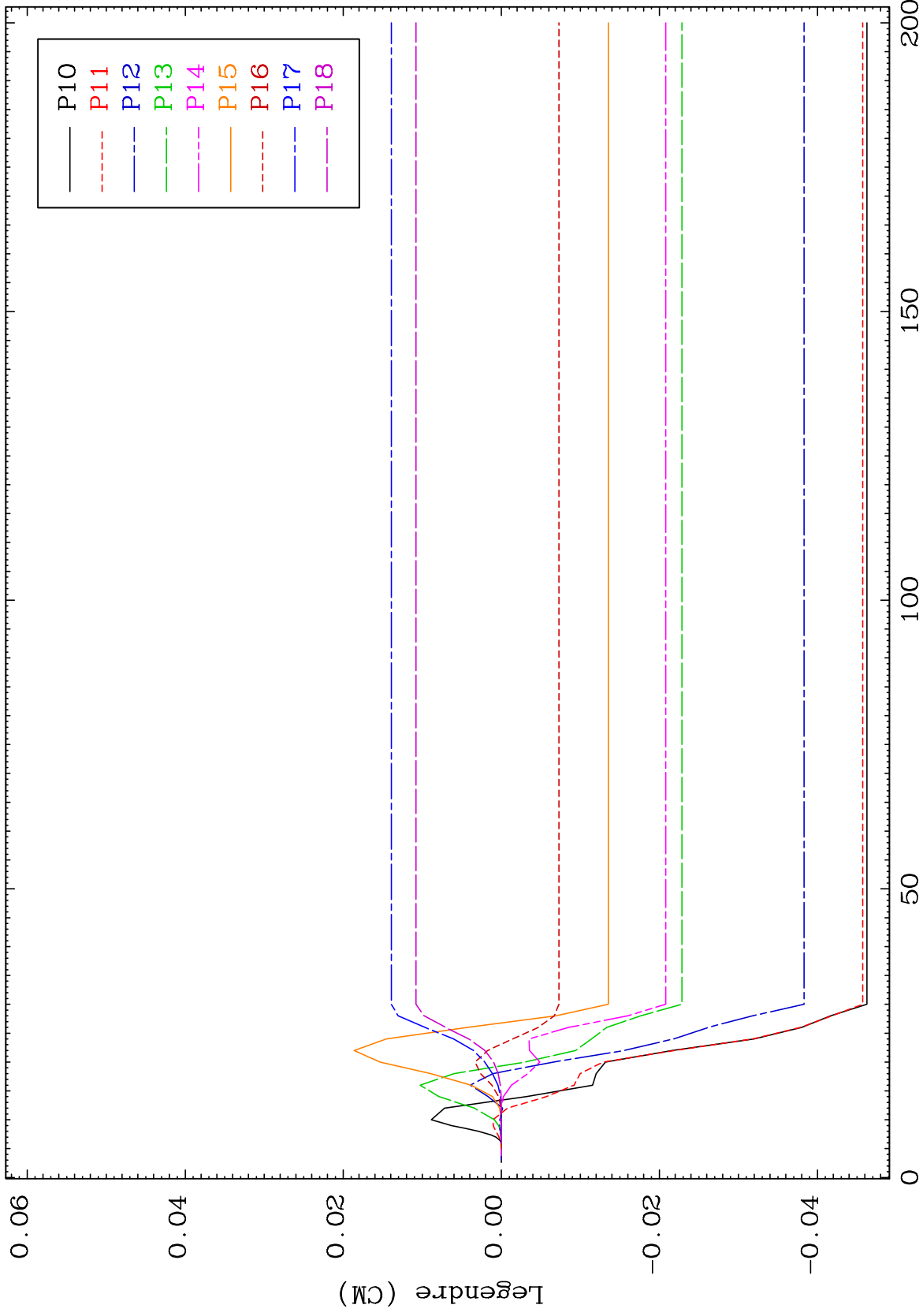
Legendre (CM)



MAT 5637

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

56-Ba-134



51

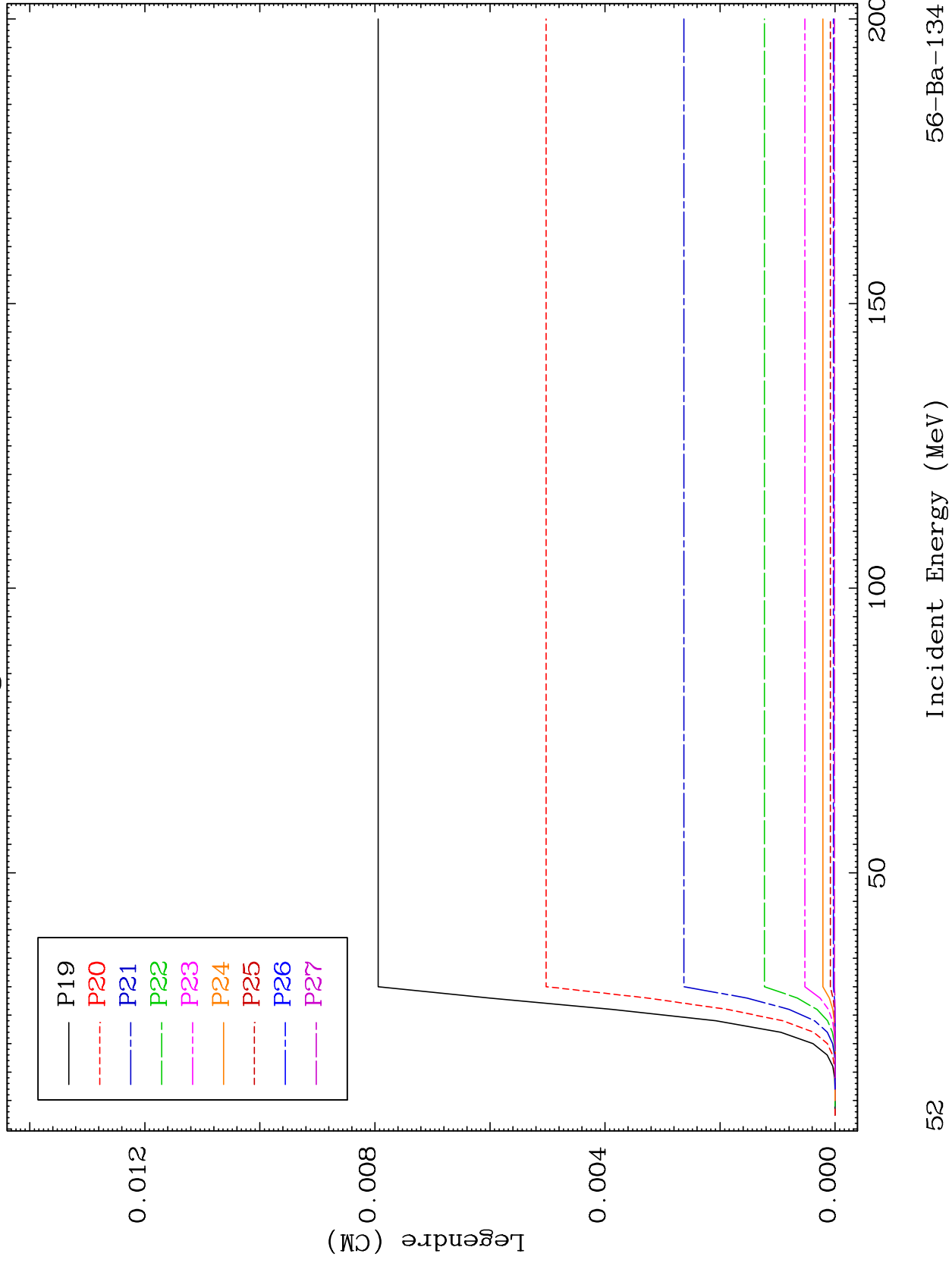
Incident Energy (MeV)

56-Ba-134

MAT 5637

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

56-Ba-134



52

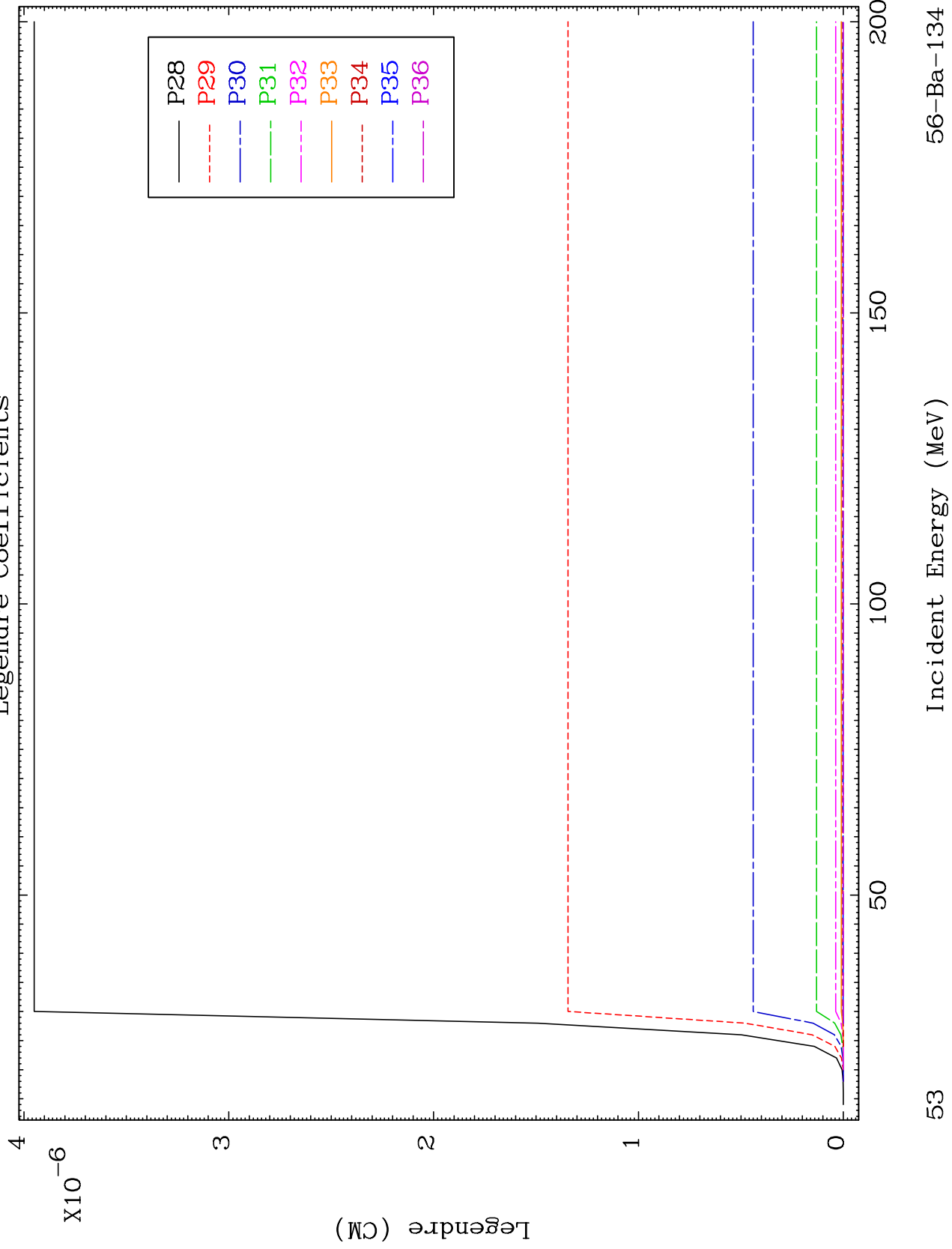
Incident Energy (MeV)

56-Ba-134

MAT 5637

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

56-Ba-134



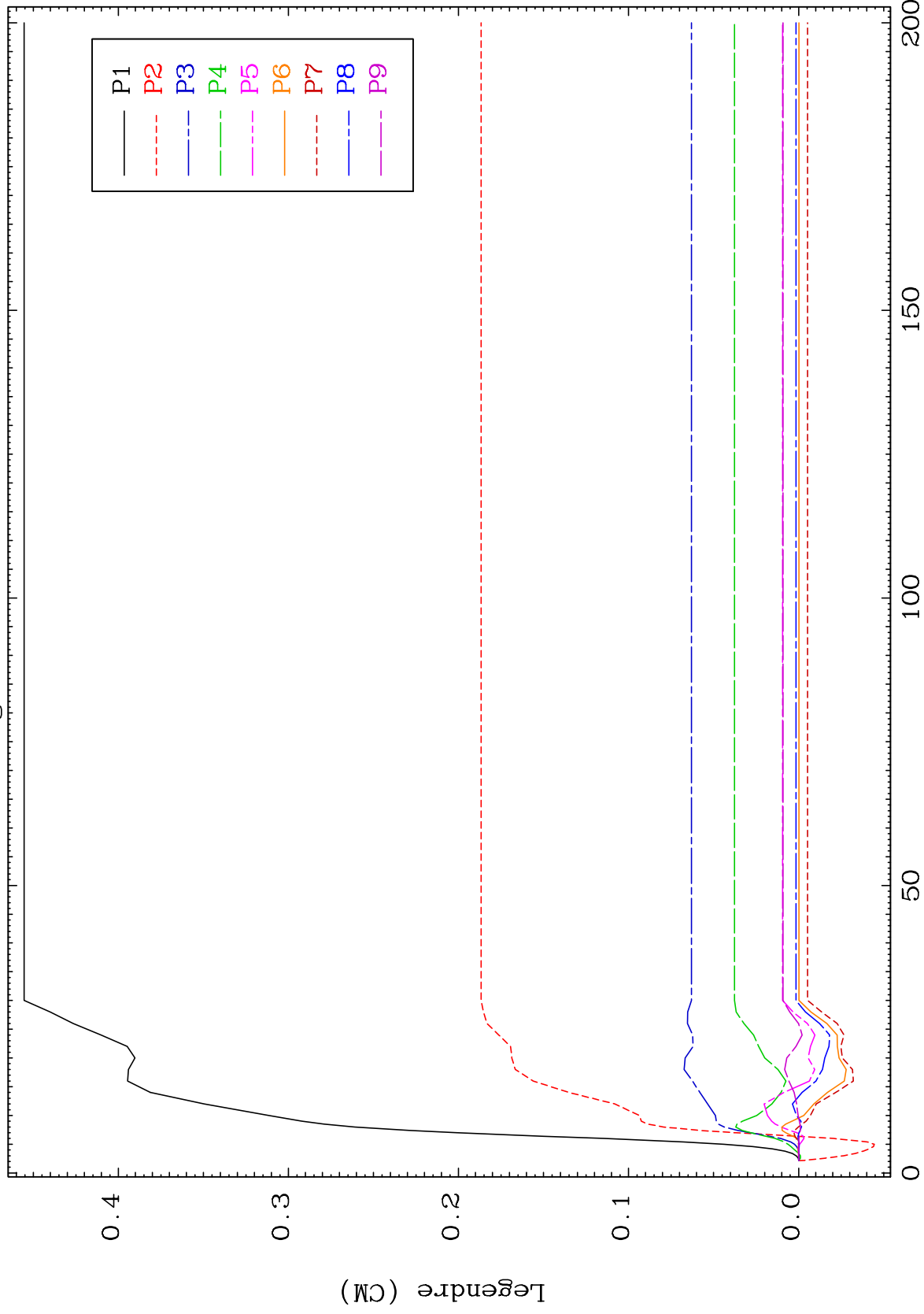
53

56-Ba-134

MAT 5637

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

56-Ba-134



54

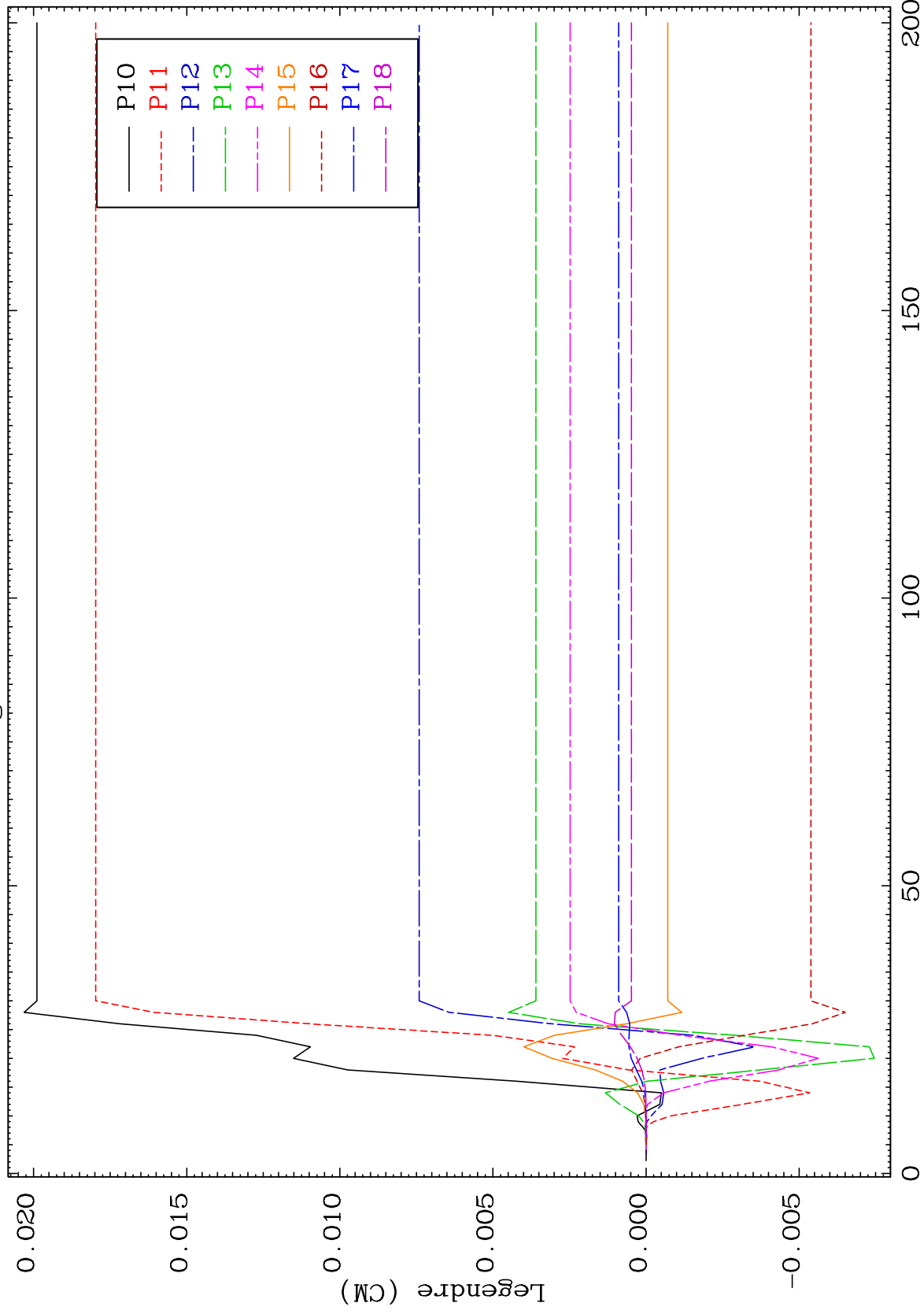
Incident Energy (MeV)

56-Ba-134

MAT 5637

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

56-Ba-134



55

Incident Energy (MeV)

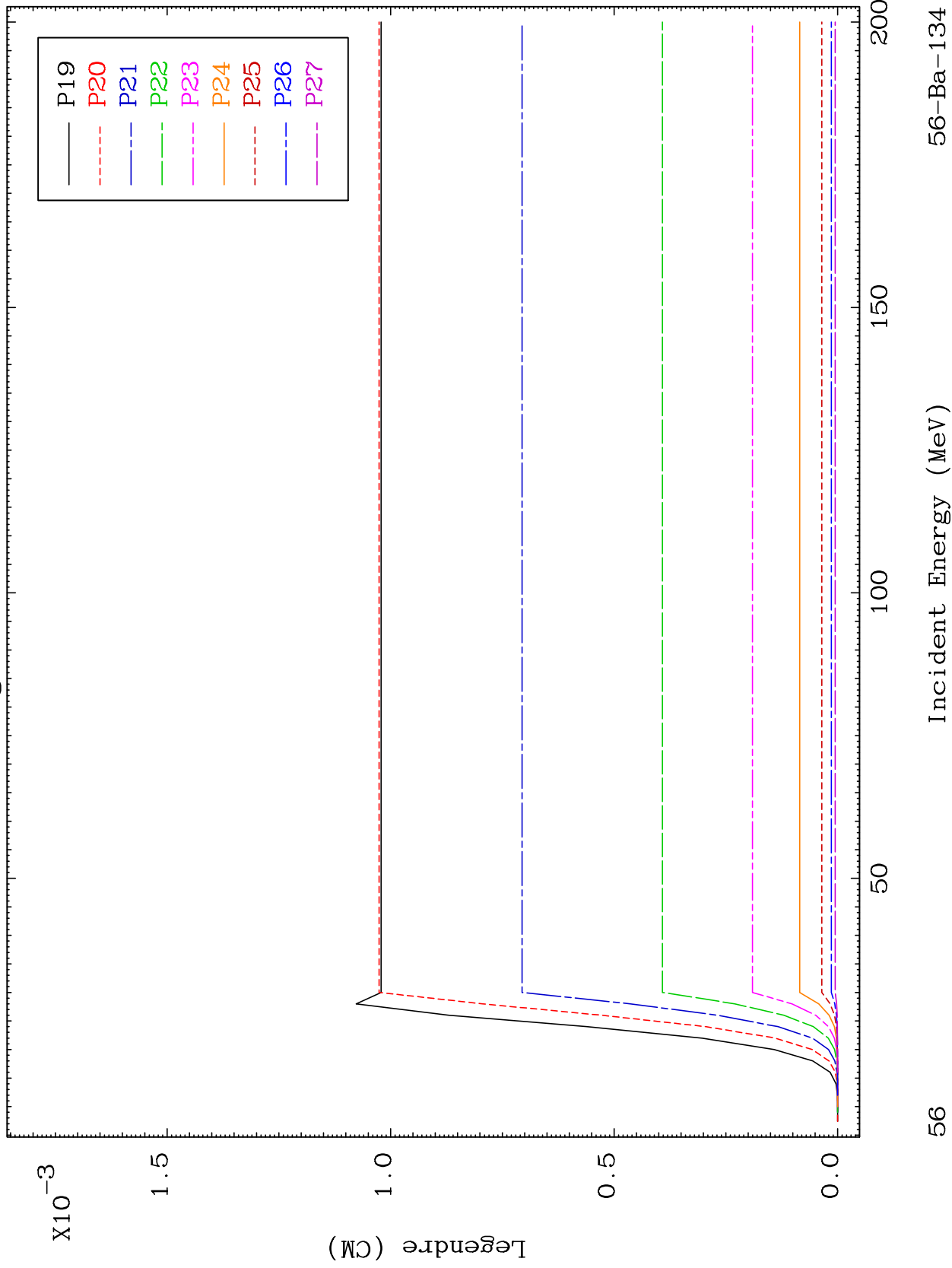
56-Ba-134



MAT 5637

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

56-Ba-134



56

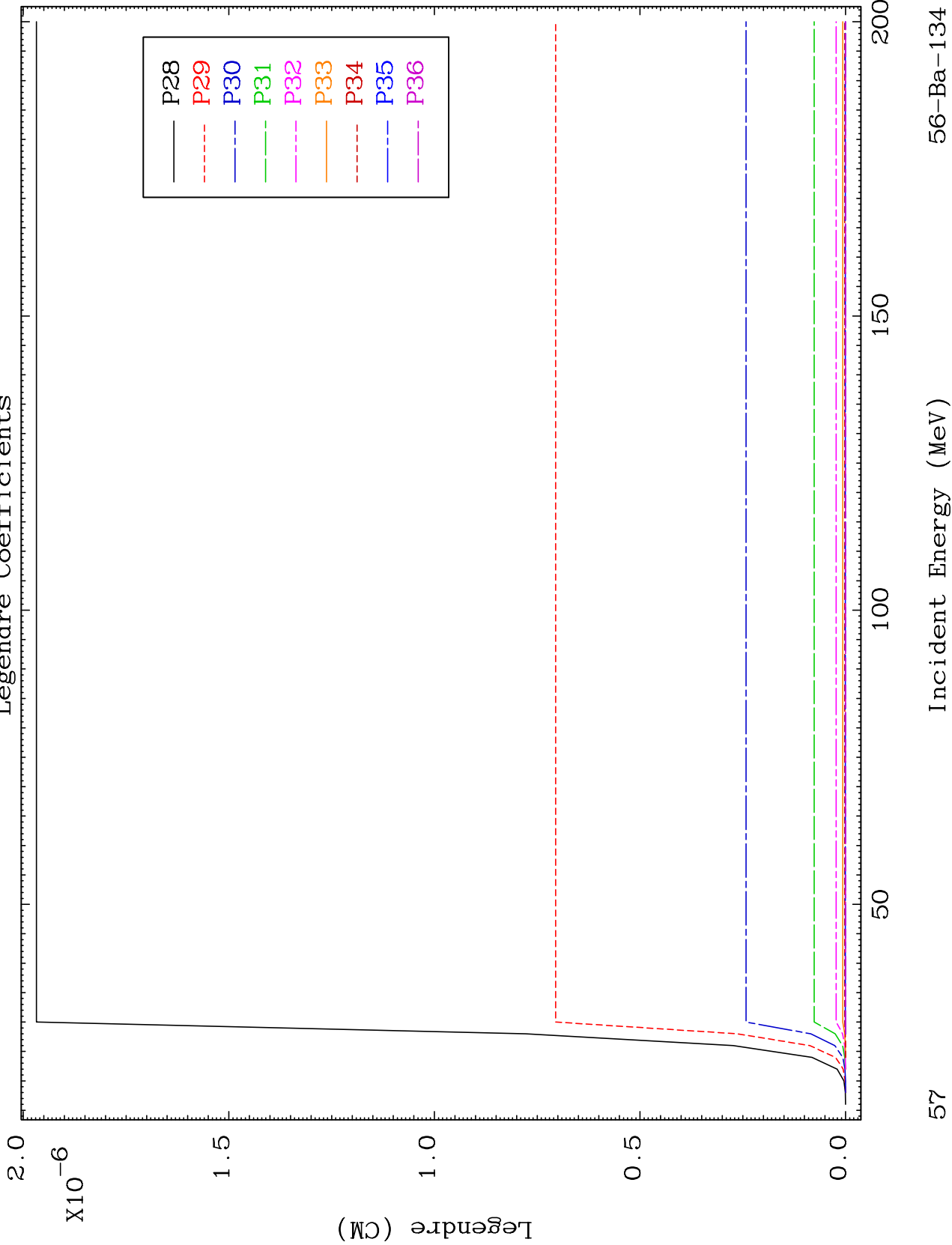
Incident Energy (MeV)

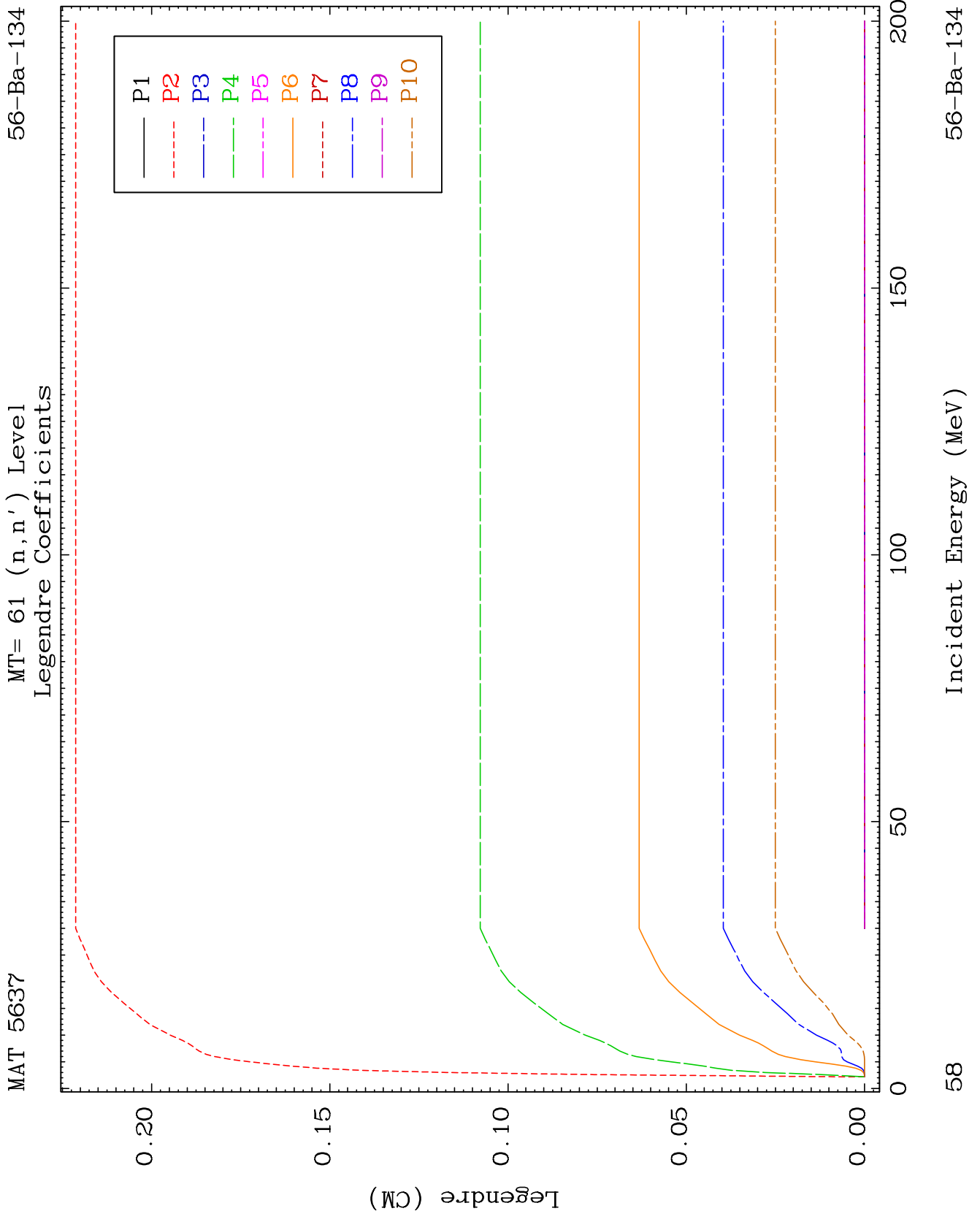
56-Ba-134

MAT 5637

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

56-Ba-134

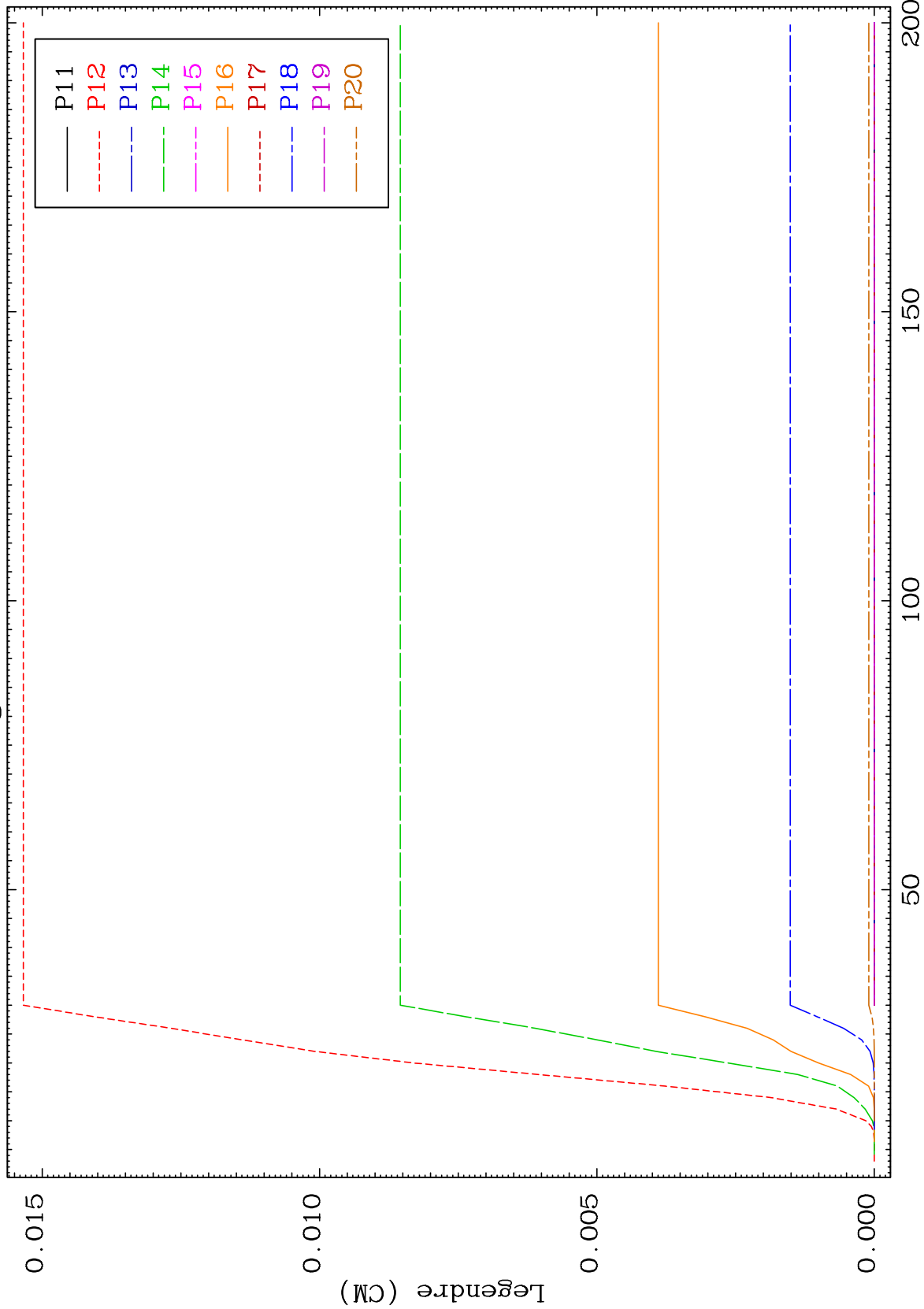




MAT 5637

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

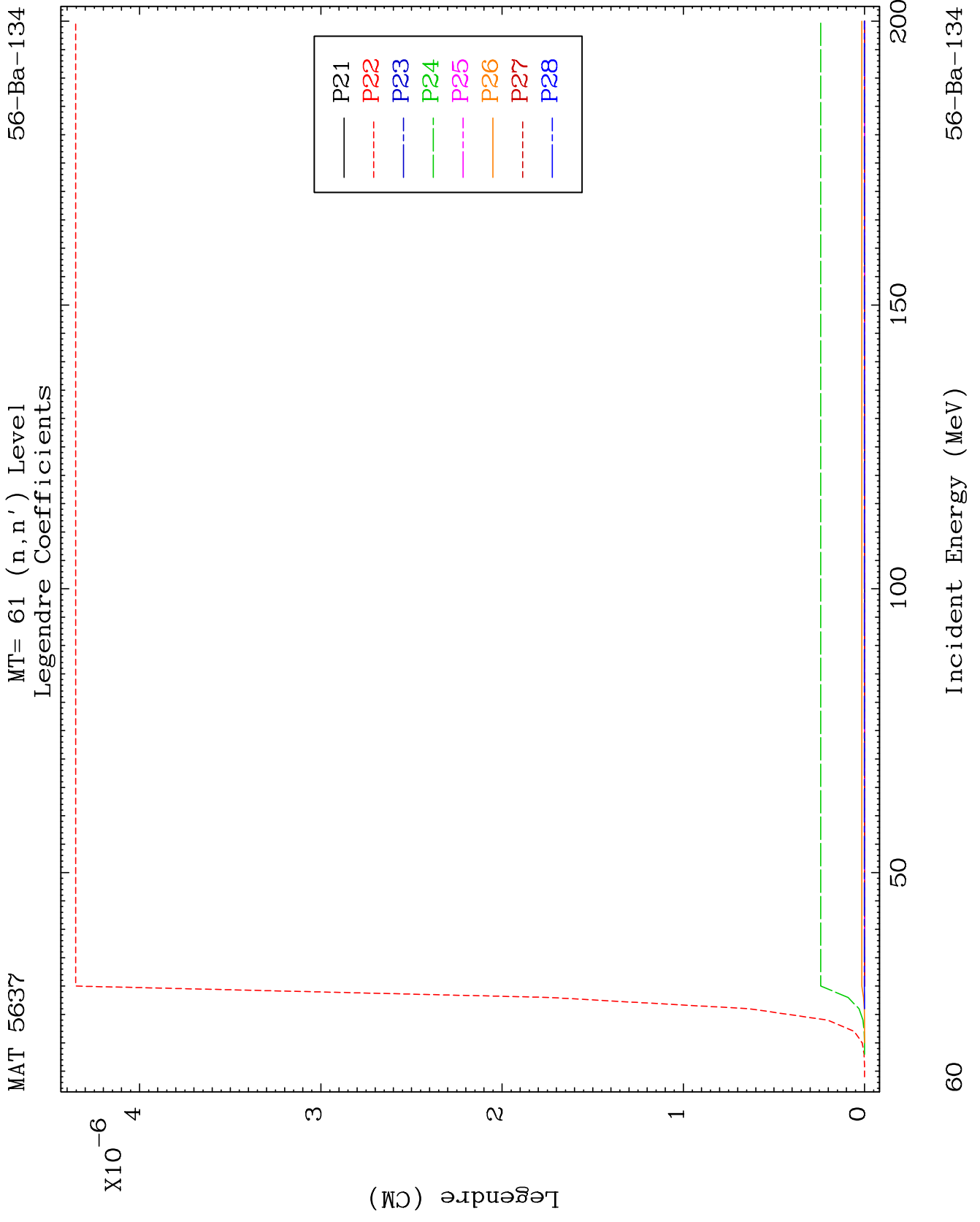
56-Ba-134



59

Incident Energy (MeV)

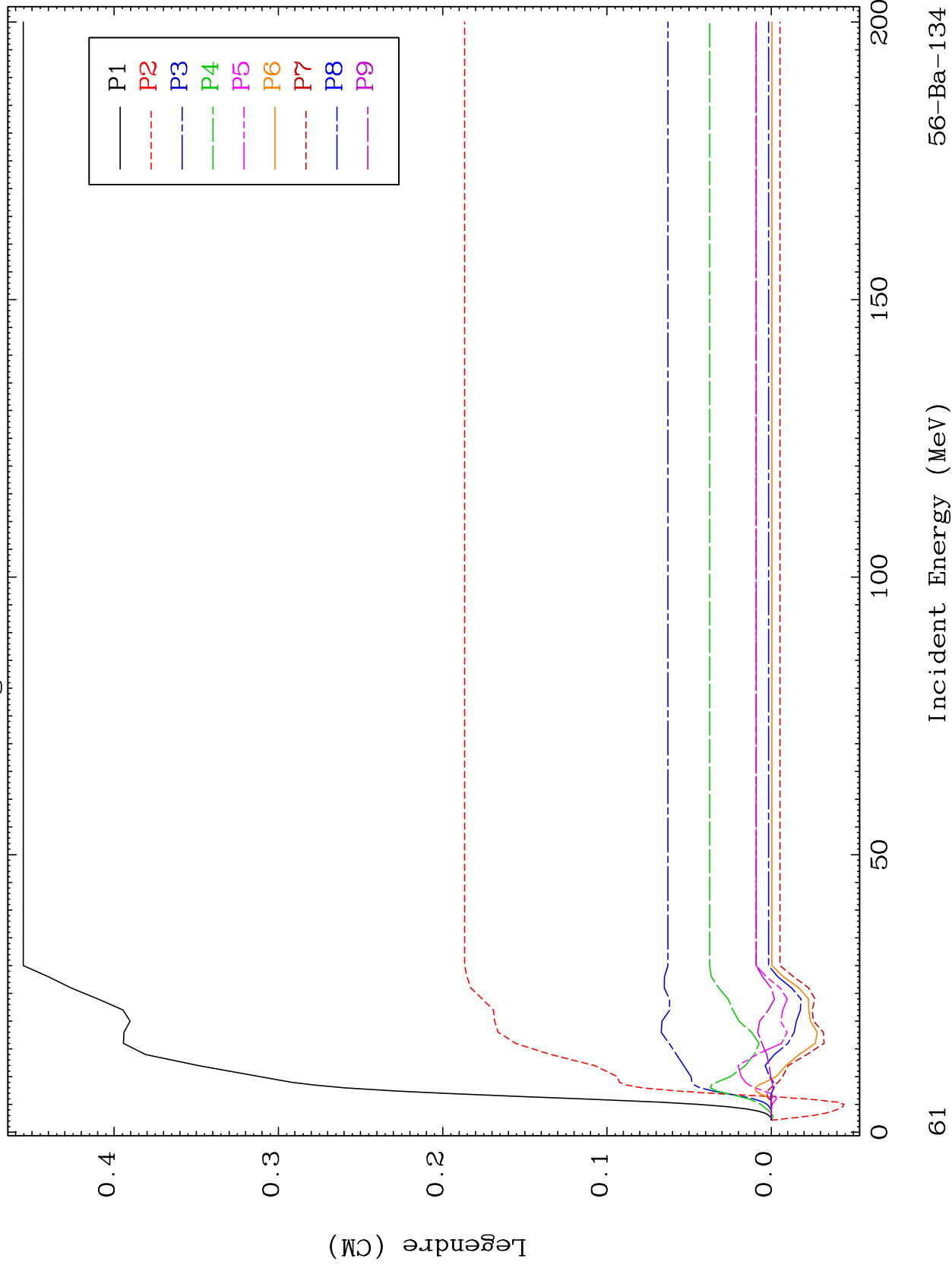
56-Ba-134



MAT 5637

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

56-Ba-134



56-Ba-134

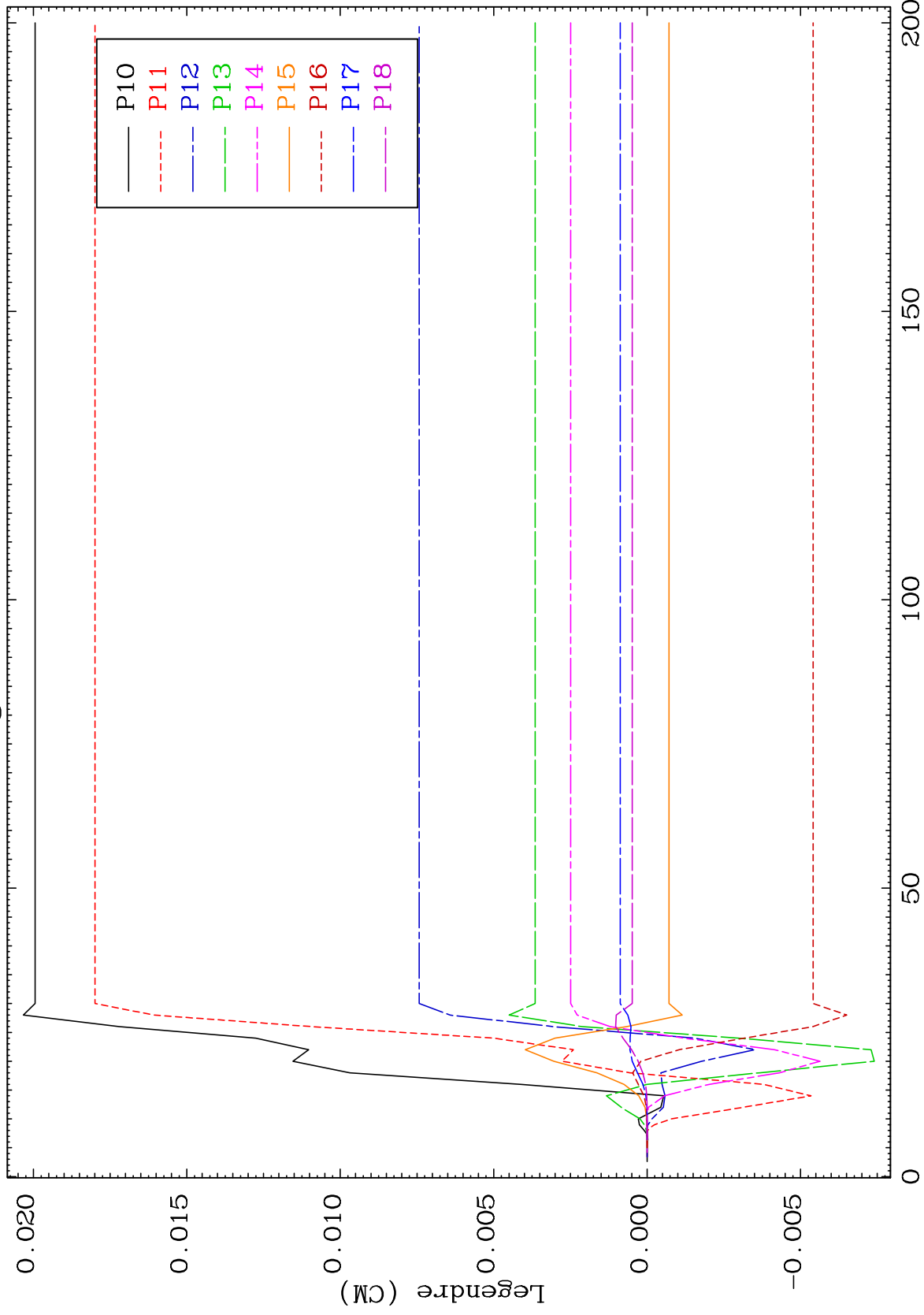
Incident Energy (MeV)

61

MAT 5637

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

56-Ba-134



62

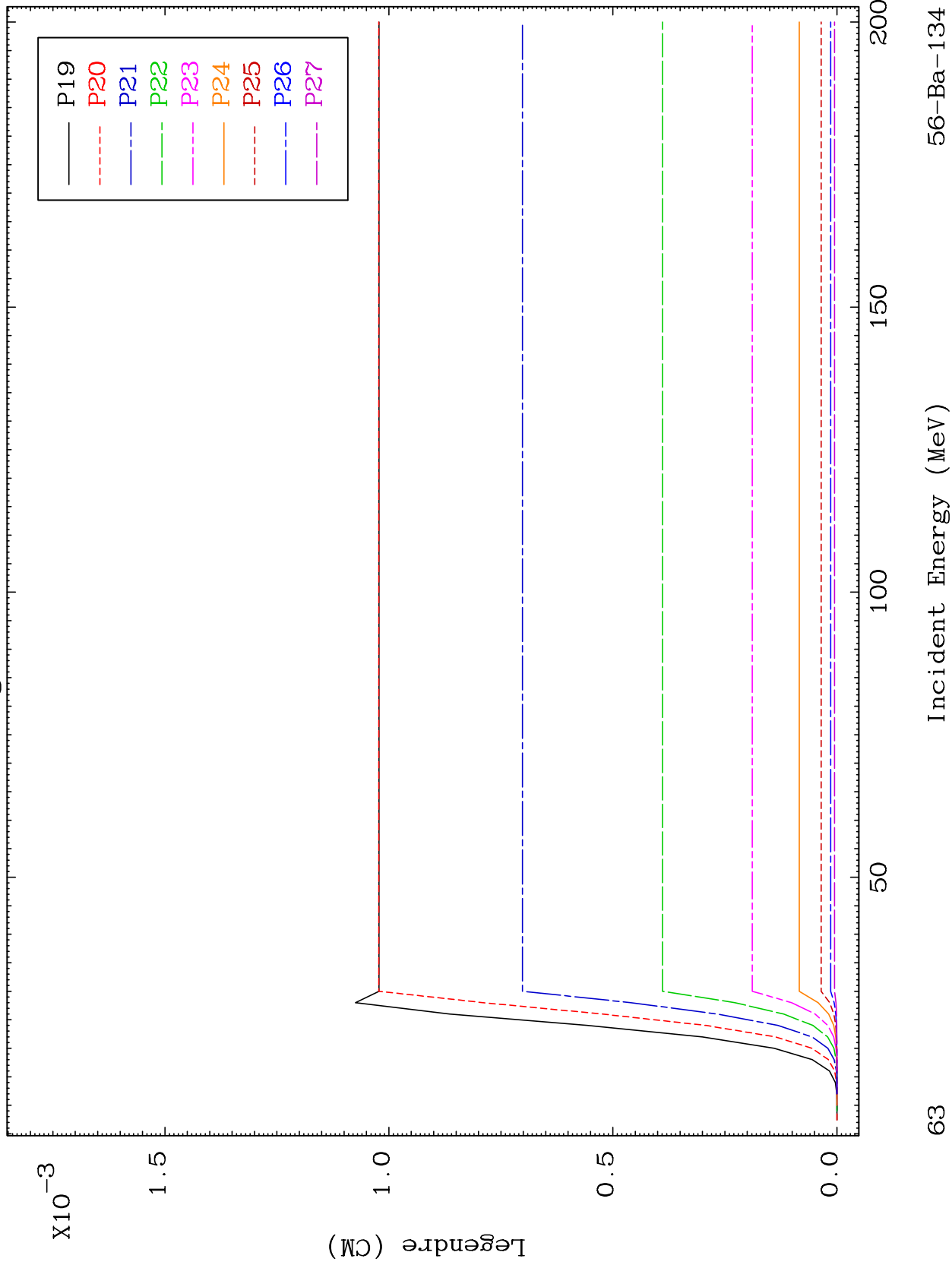
Incident Energy (MeV)

56-Ba-134

MAT 5637

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

56-Ba-134



63

Incident Energy (MeV)

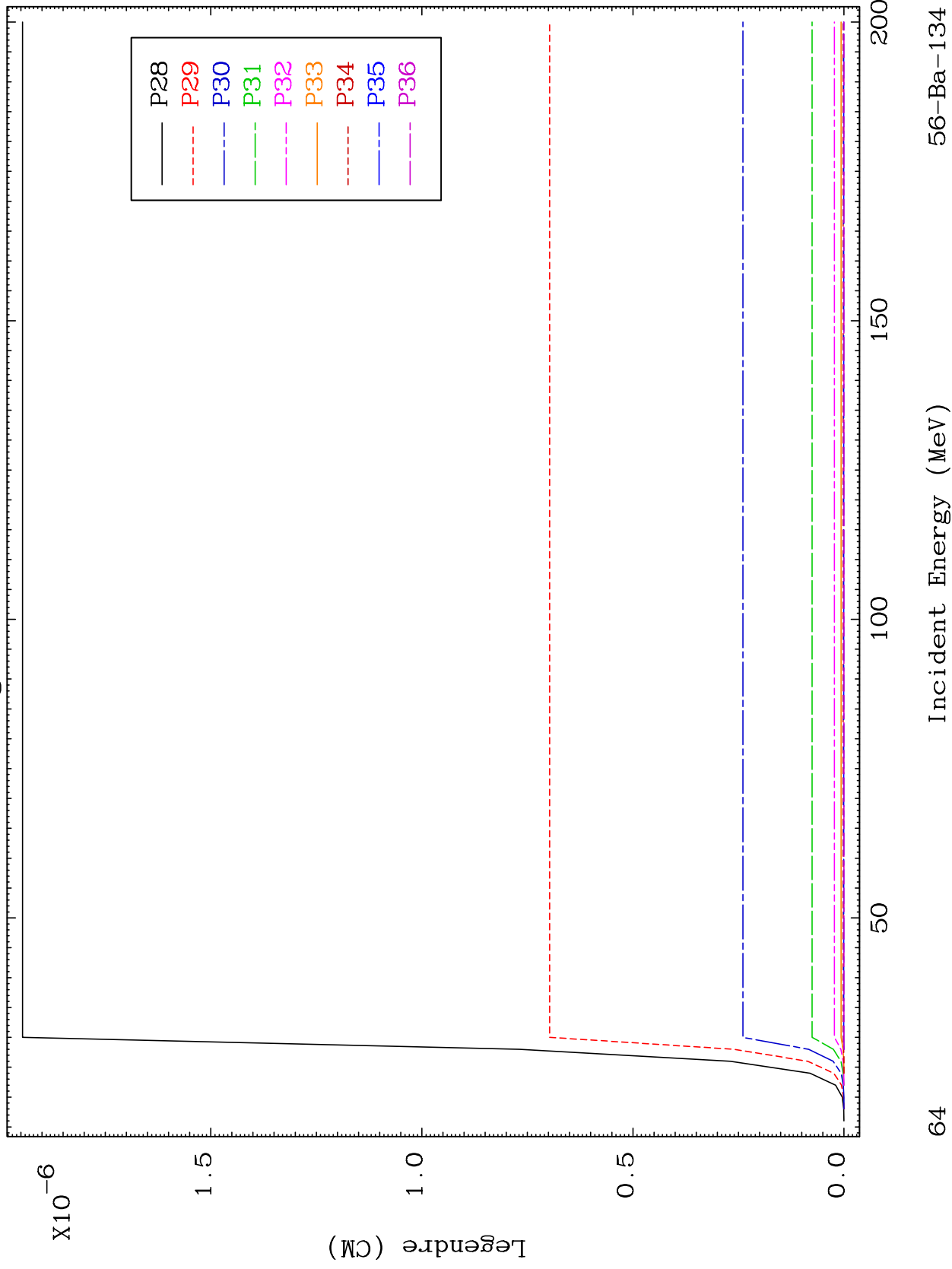
56-Ba-134



MAT 5637

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

56-Ba-134



64

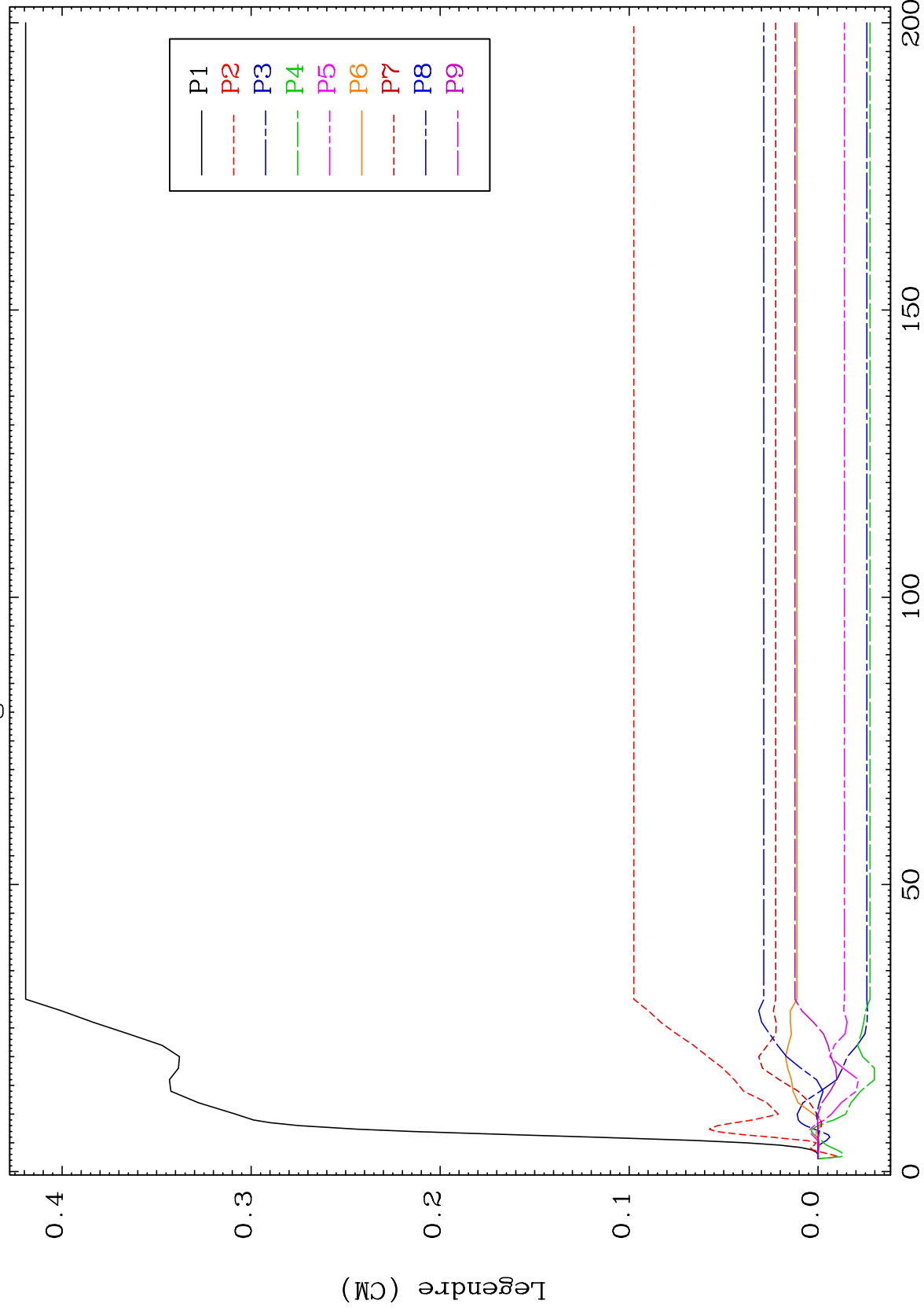
Incident Energy (MeV)

56-Ba-134

MAT 5637

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

56-Ba-134



56-Ba-134

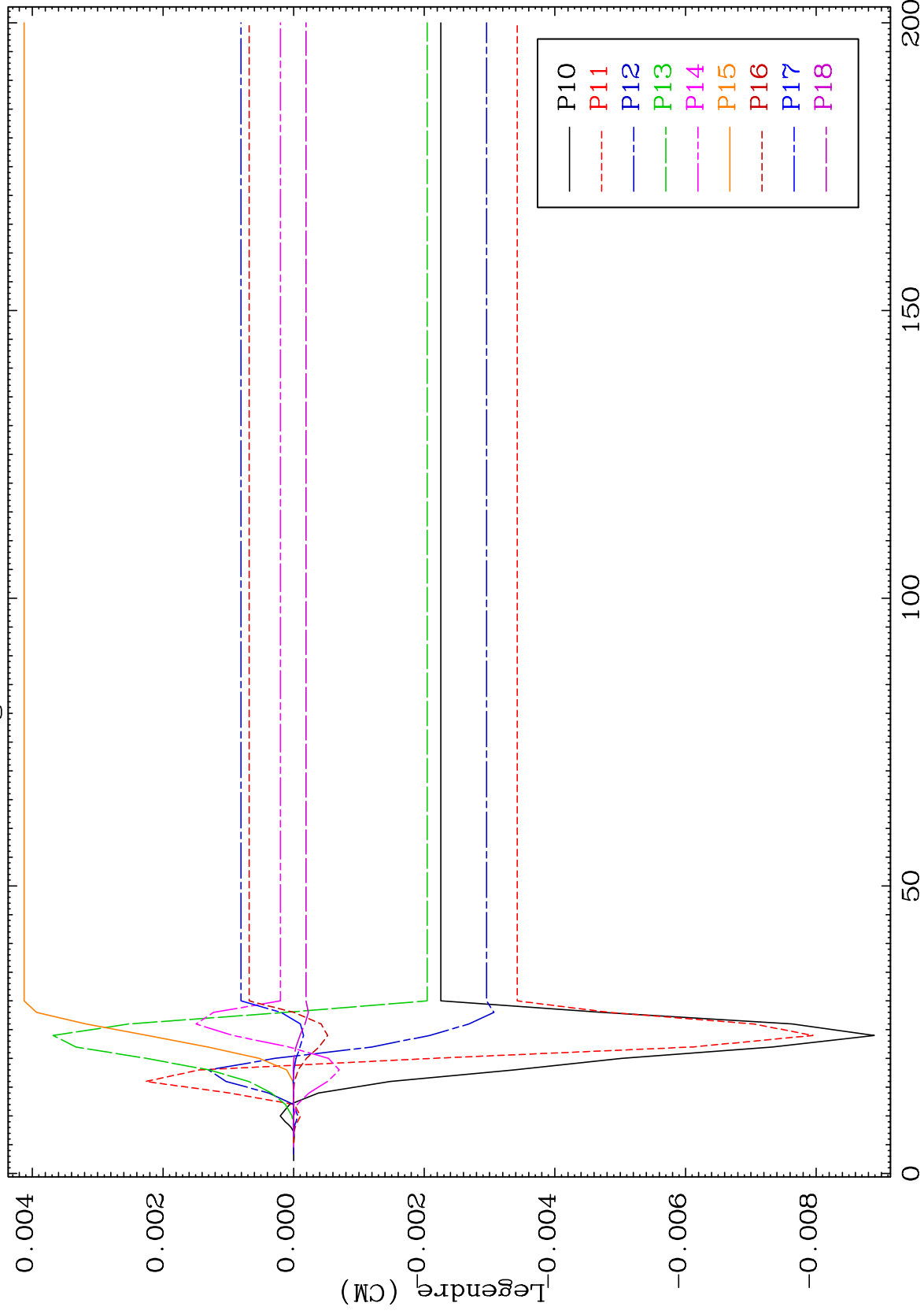
Incident Energy (MeV)

65

MAT 5637

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

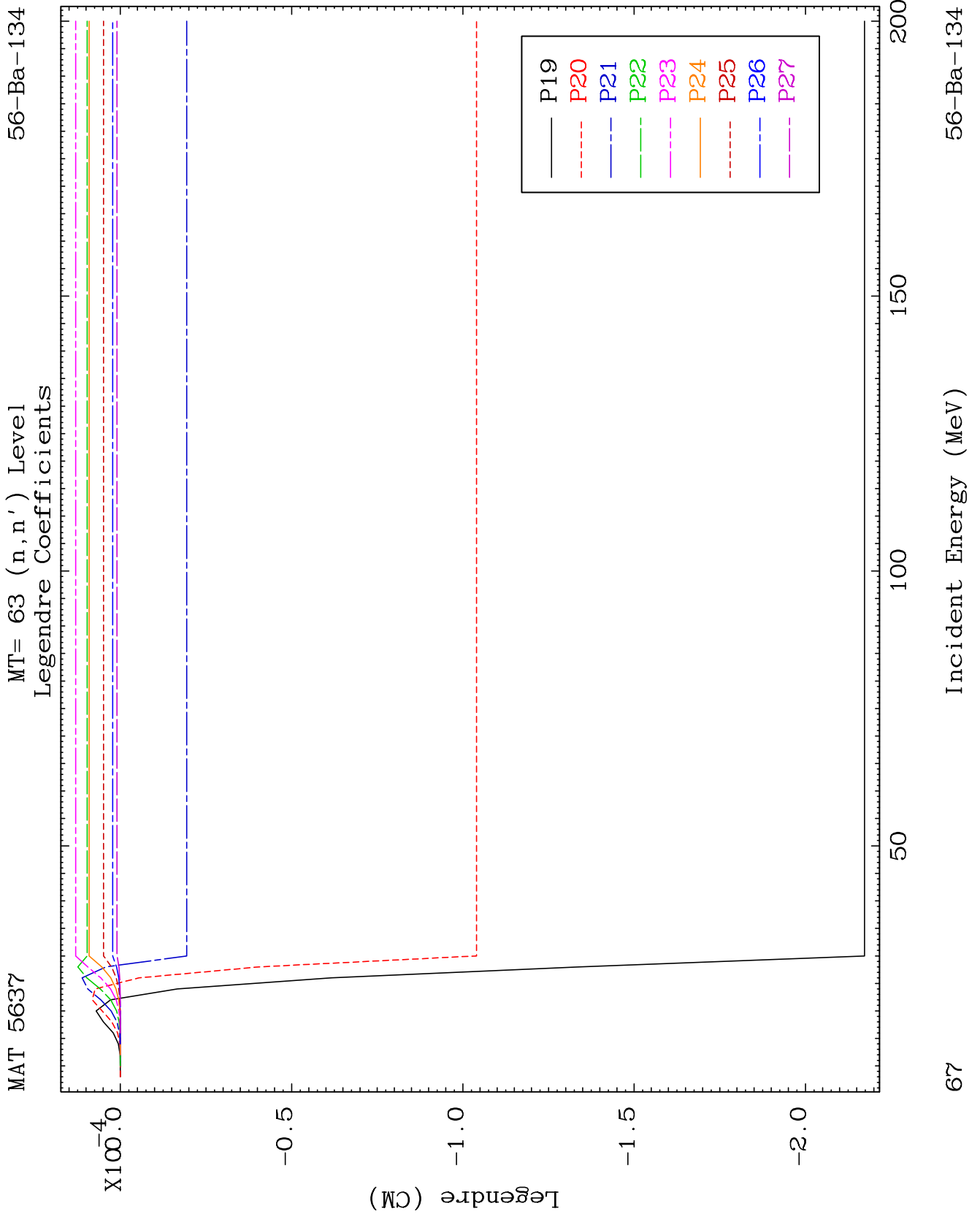
56-Ba-134



66

Incident Energy (MeV)

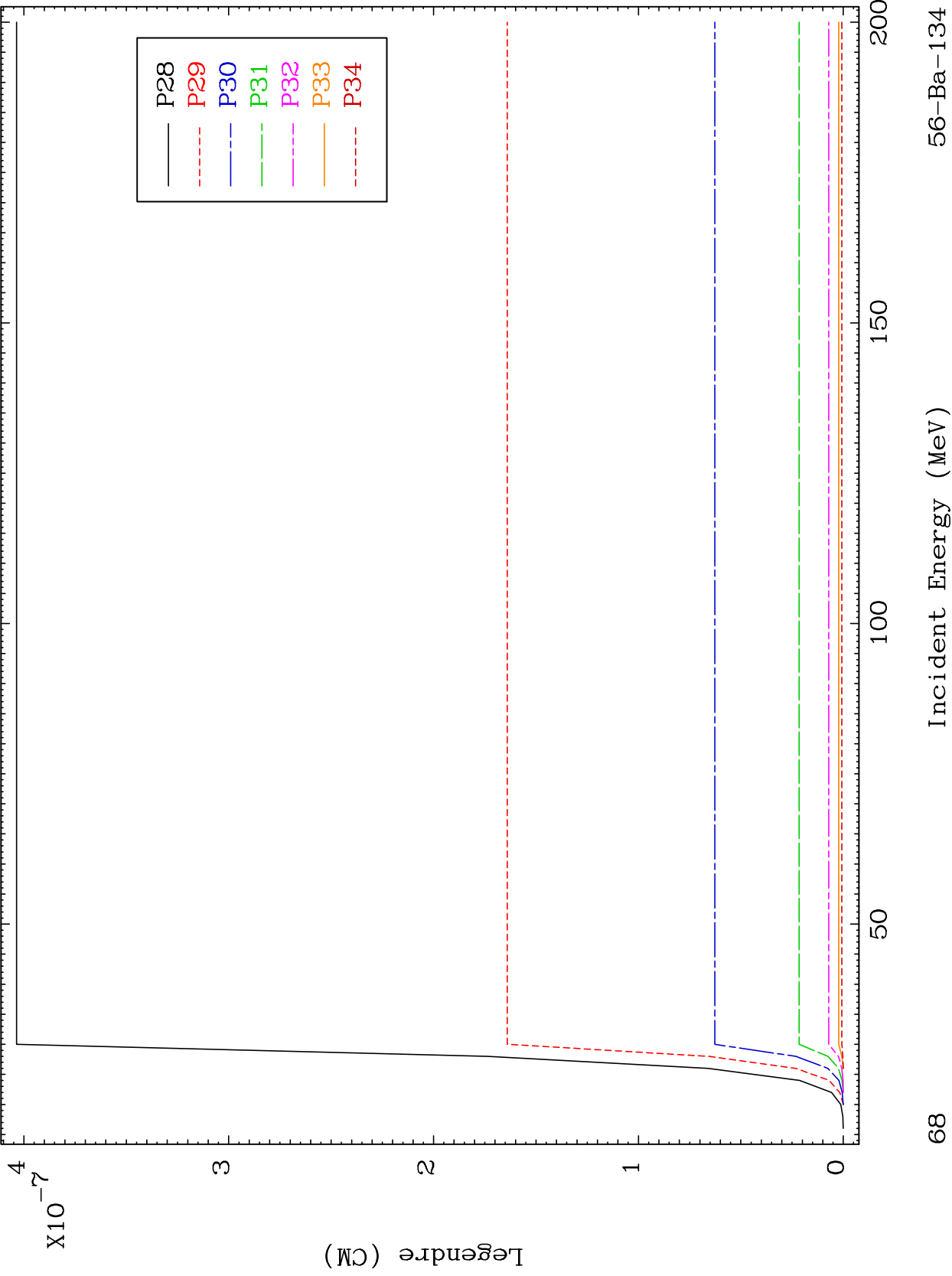
56-Ba-134

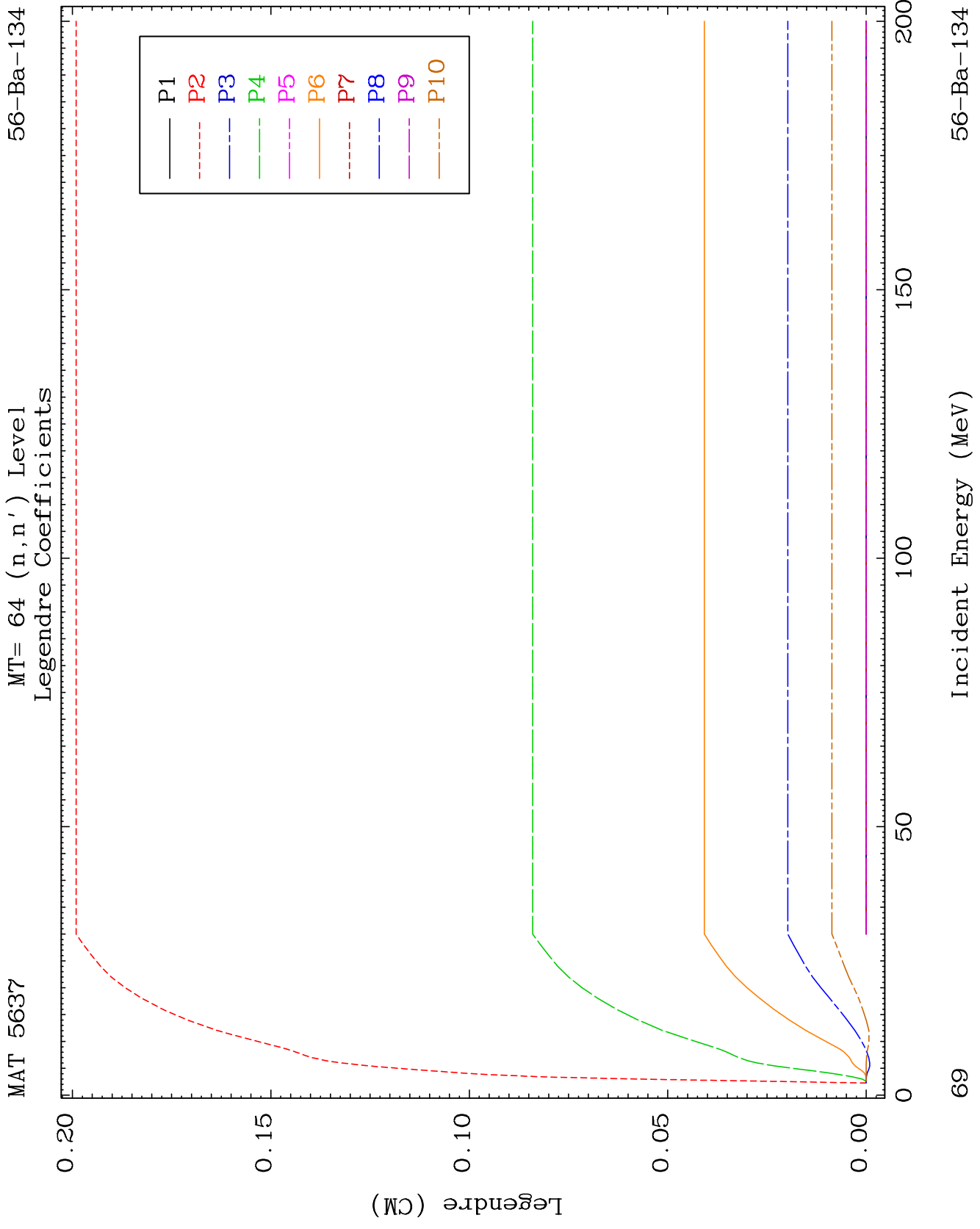


MAT 5637

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

56-Ba-134

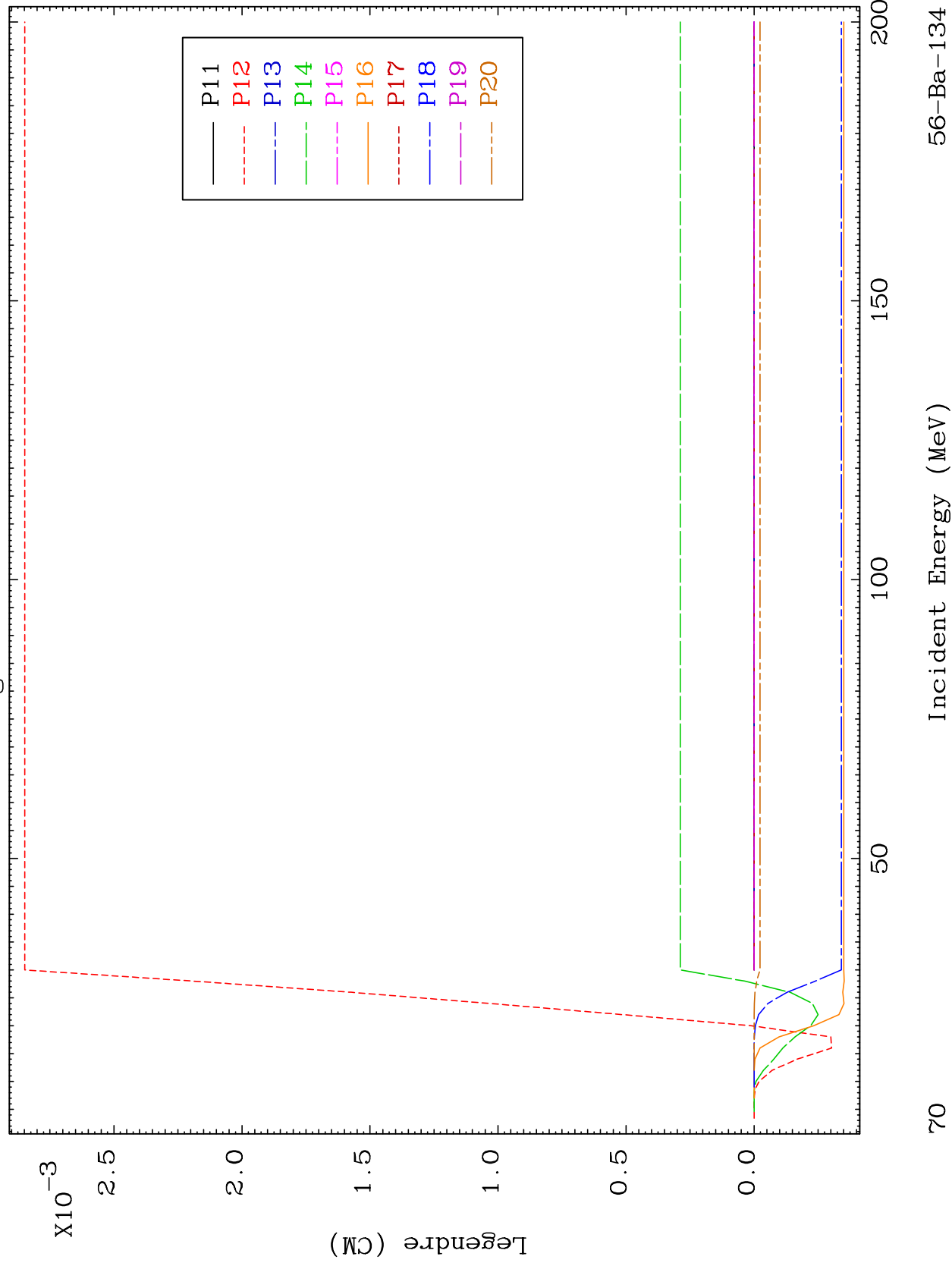




MAT 5637

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

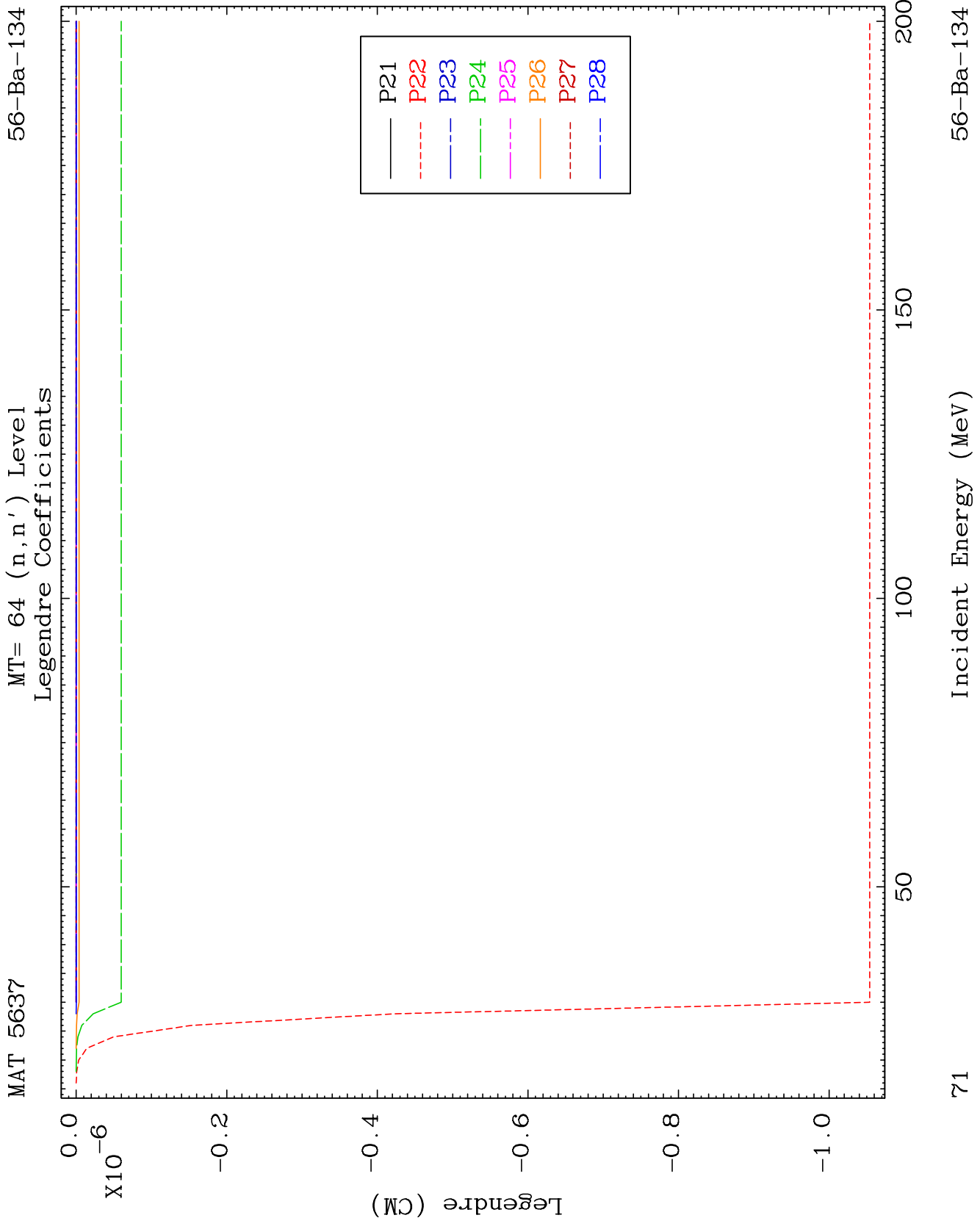
56-Ba-134



70

Incident Energy (MeV)

56-Ba-134

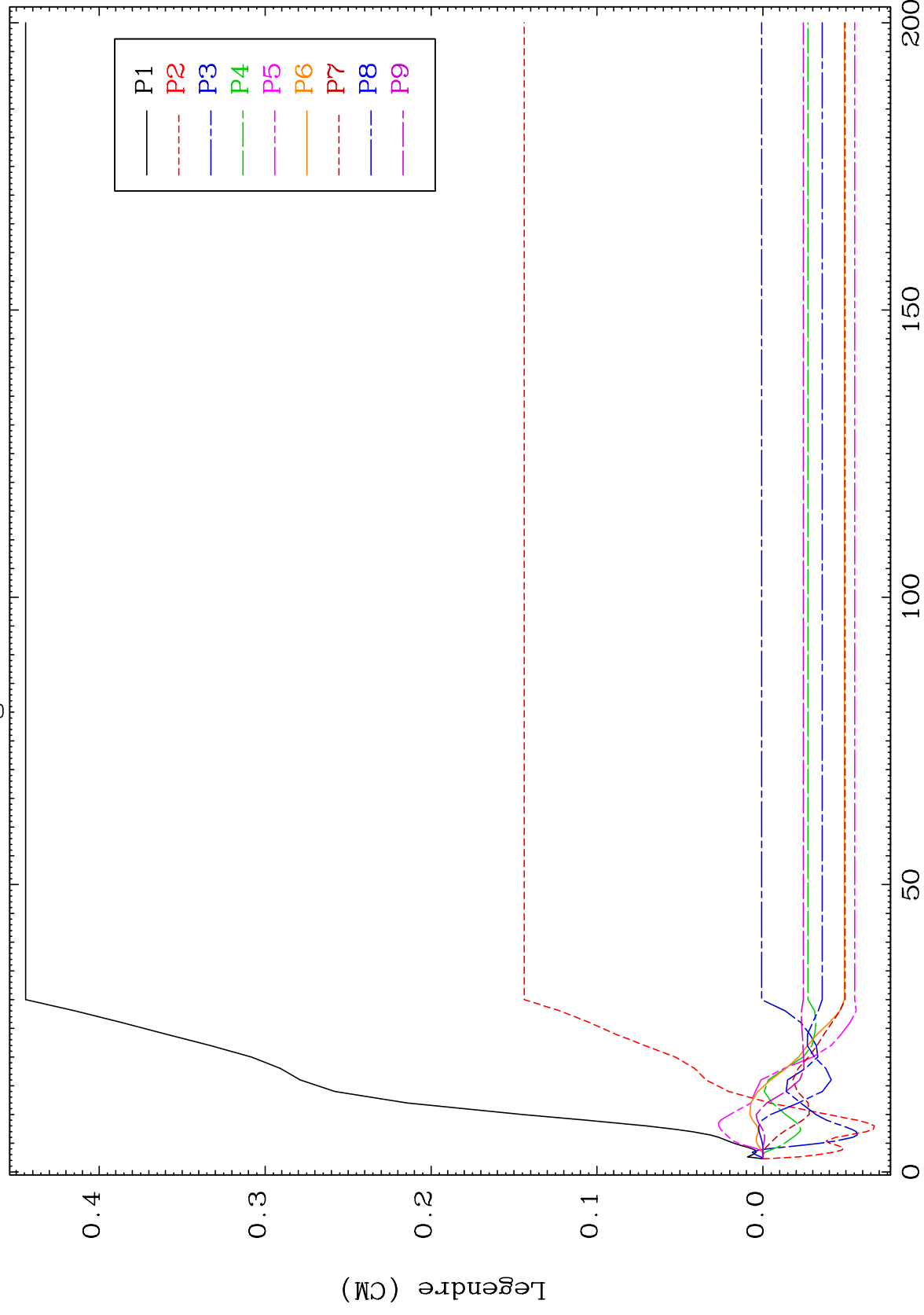




MAT 5637

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

56-Ba-134



72

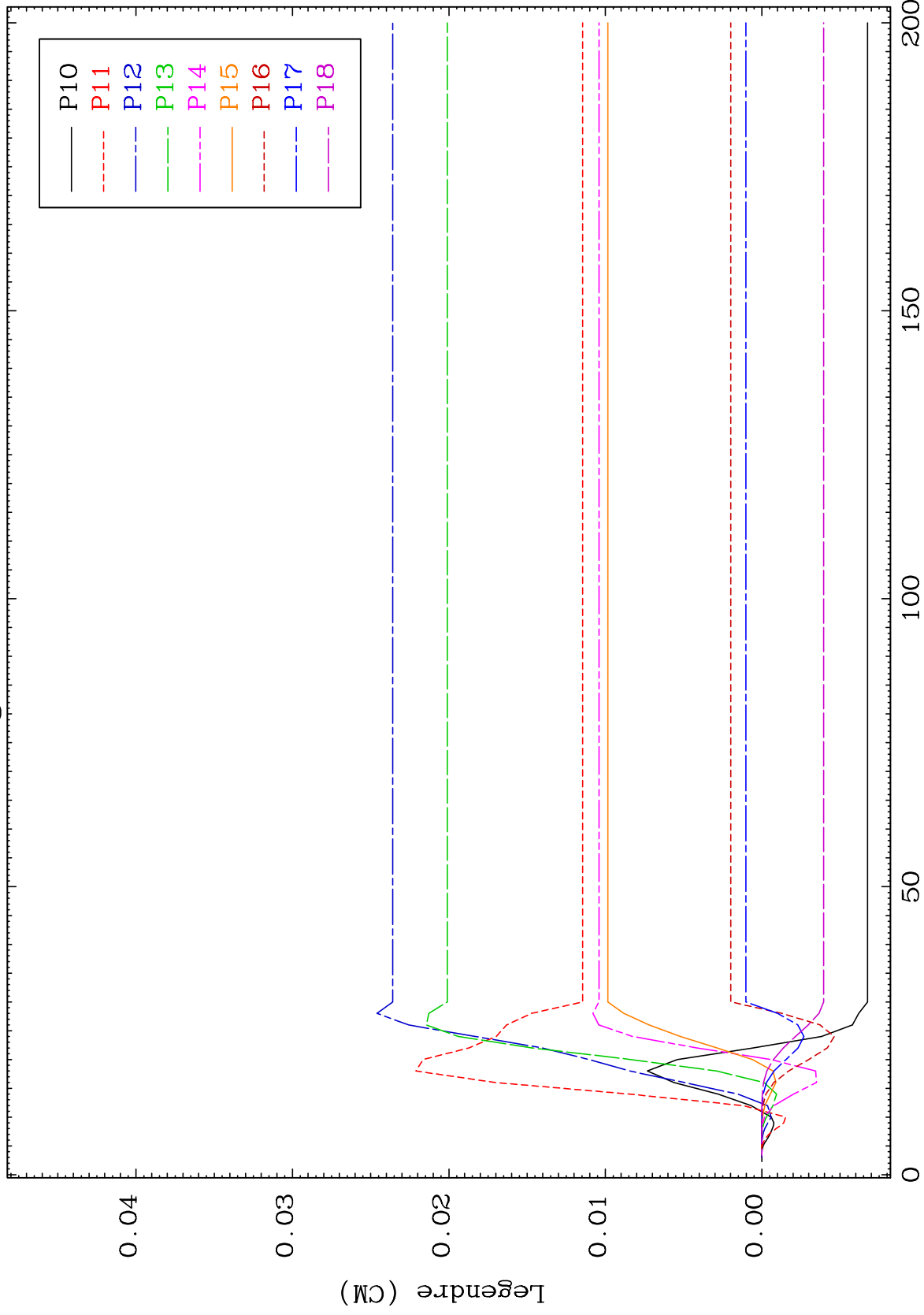
Incident Energy (MeV)

56-Ba-134

MAT 5637

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

56-Ba-134



73

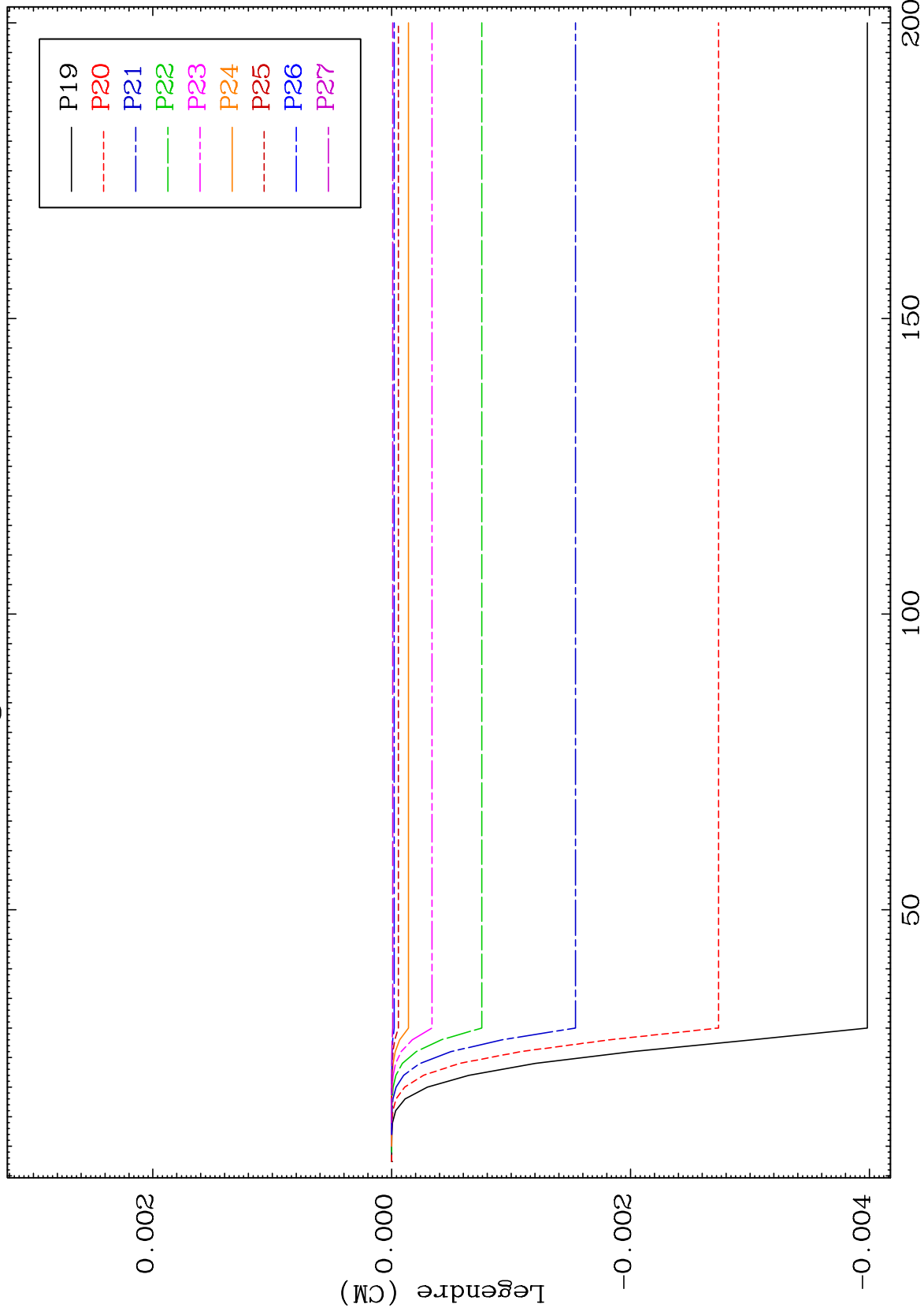
Incident Energy (MeV)

56-Ba-134

MAT 5637

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

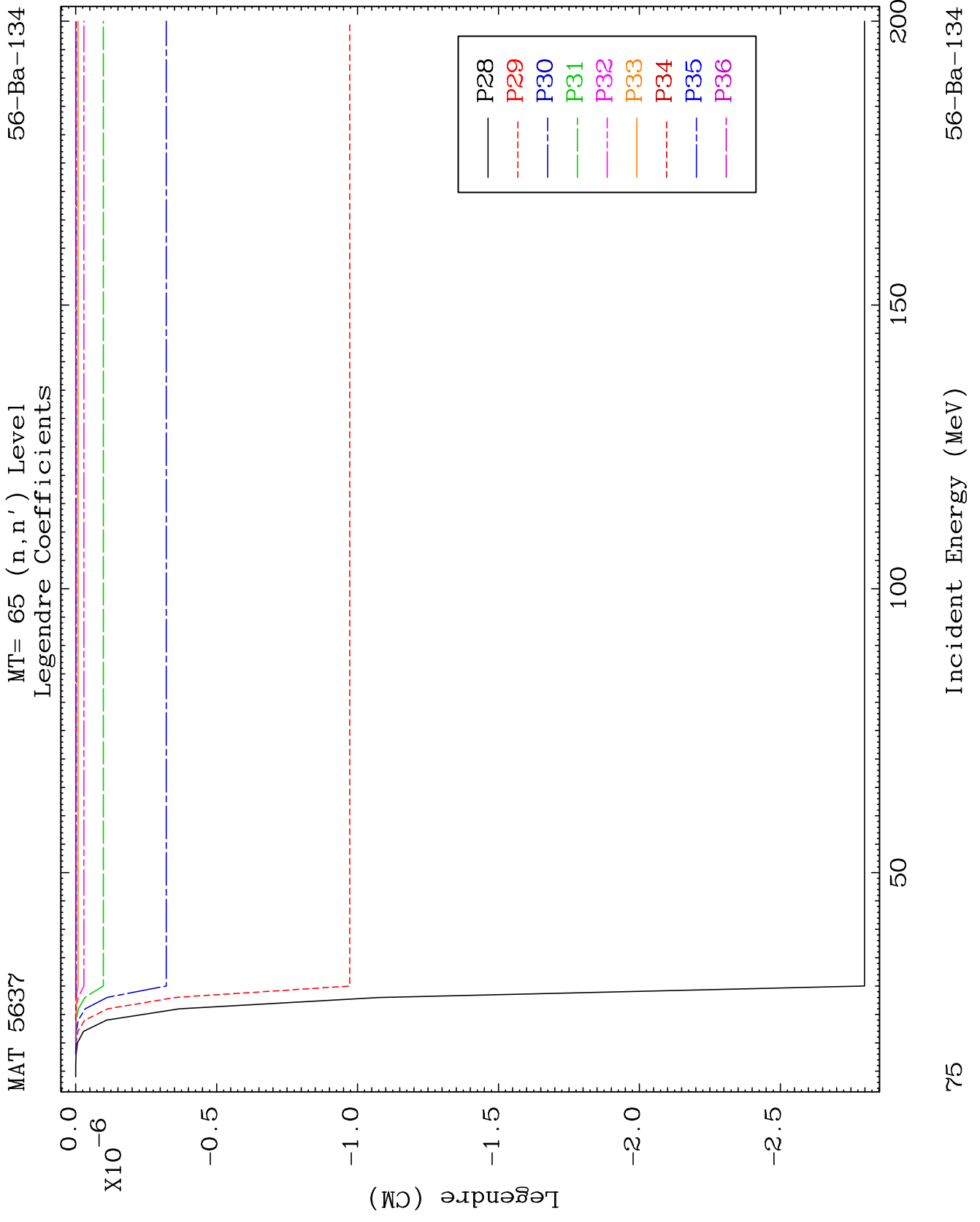
56-Ba-134



74

Incident Energy (MeV)

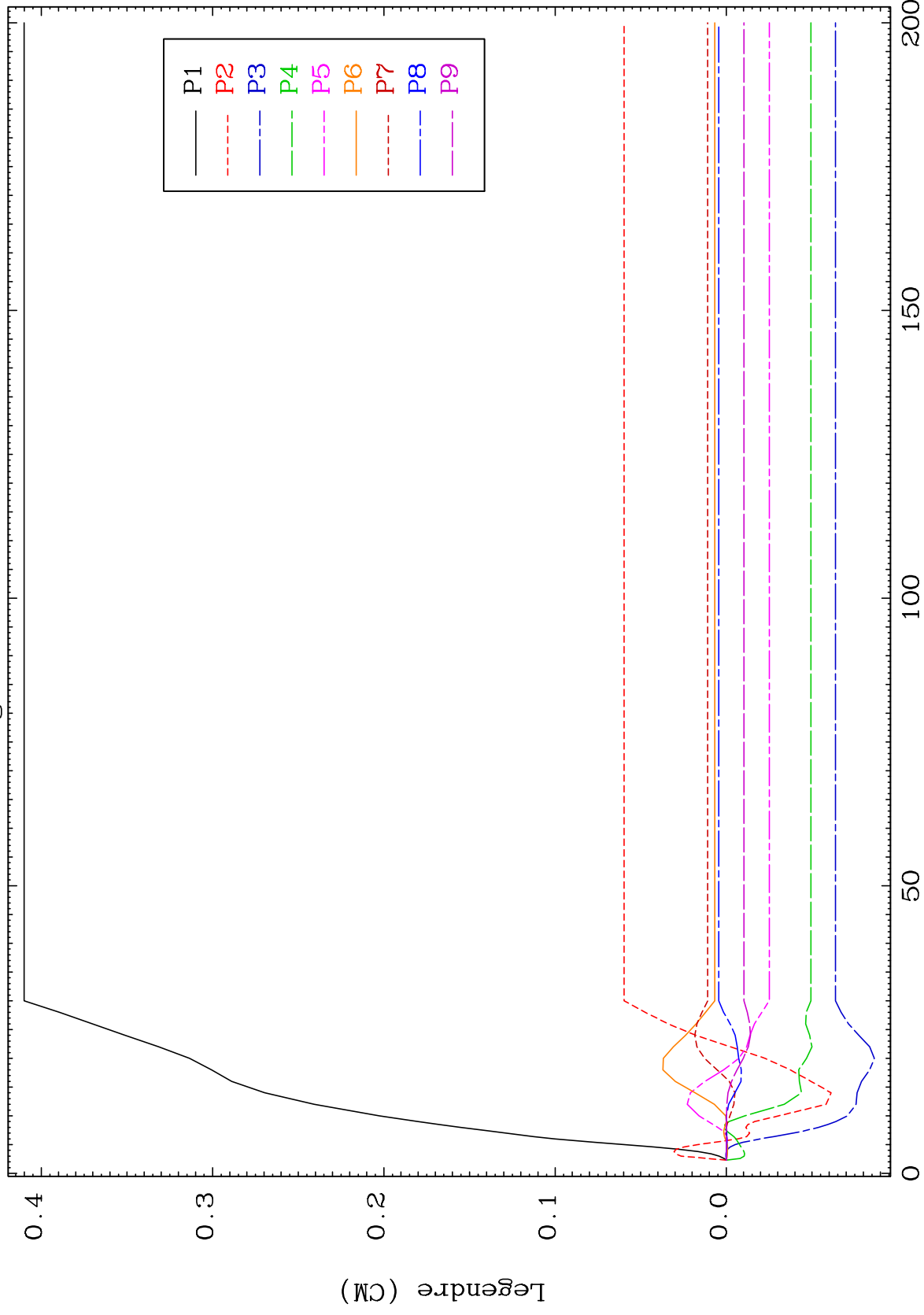
56-Ba-134



MAT 5637

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

56-Ba-134



76

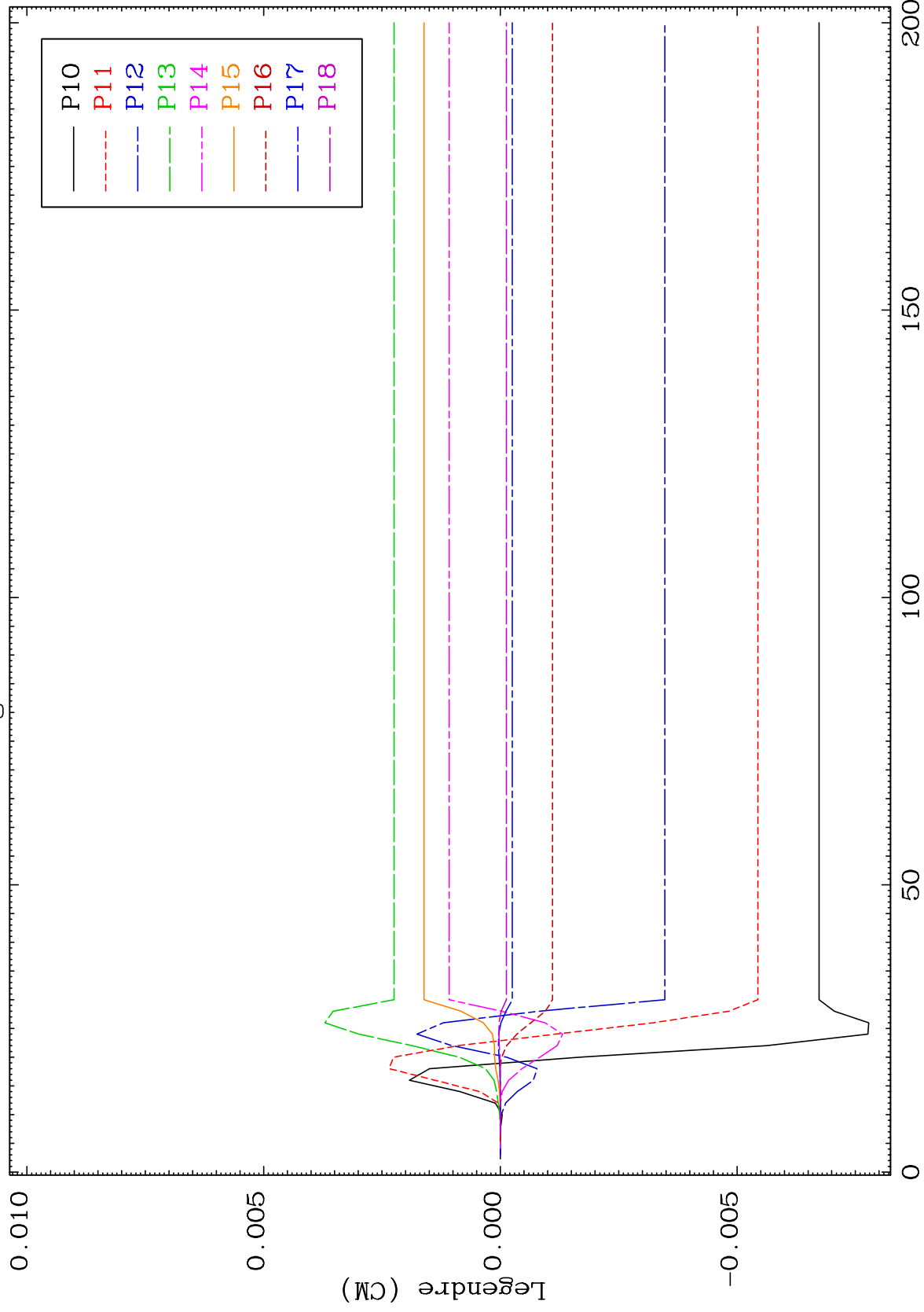
Incident Energy (MeV)

56-Ba-134

MAT 5637

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

56-Ba-134



77

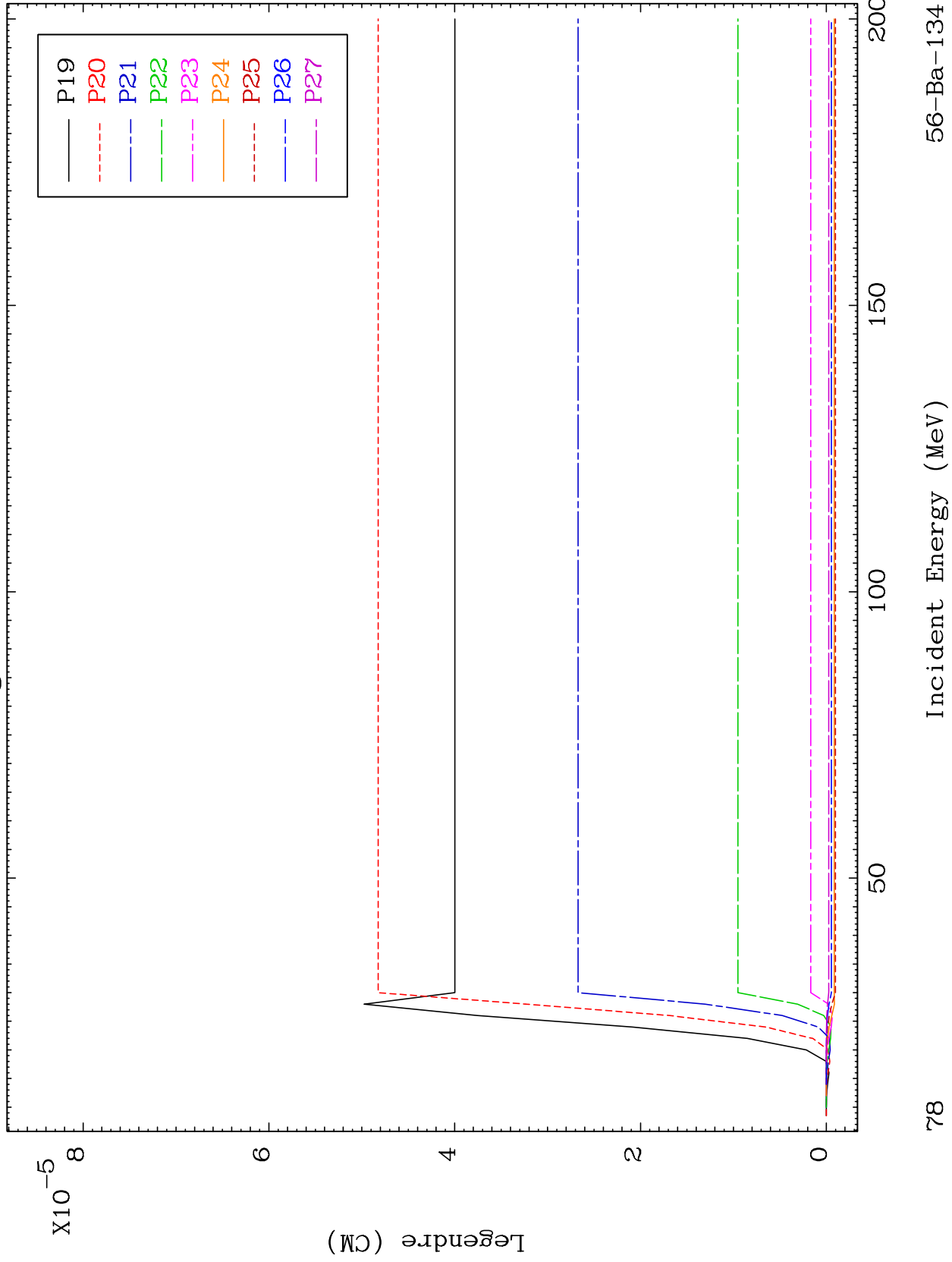
Incident Energy (MeV)

56-Ba-134

MAT 5637

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

56-Ba-134



78

Incident Energy (MeV)

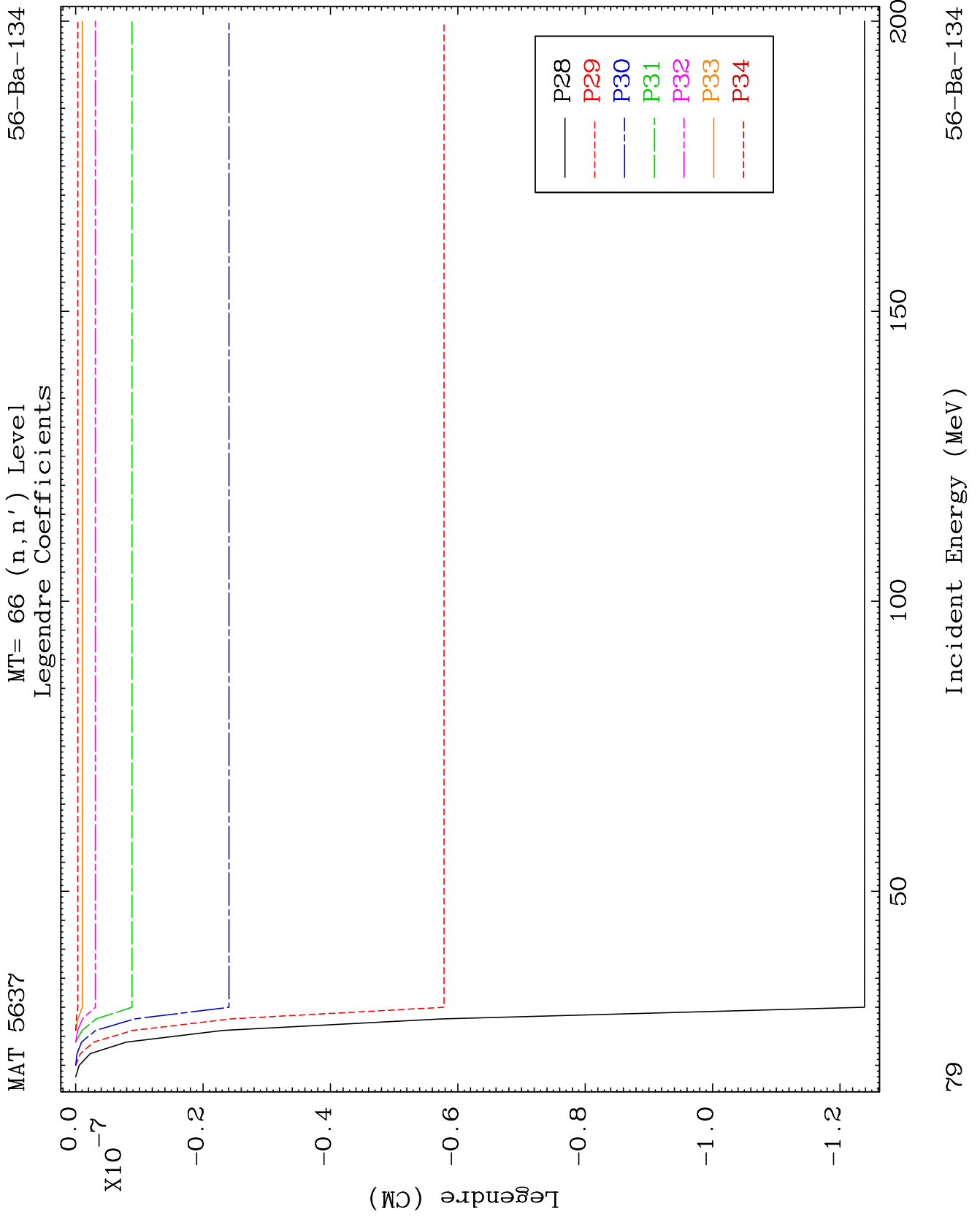
56-Ba-134

200

150

100

50

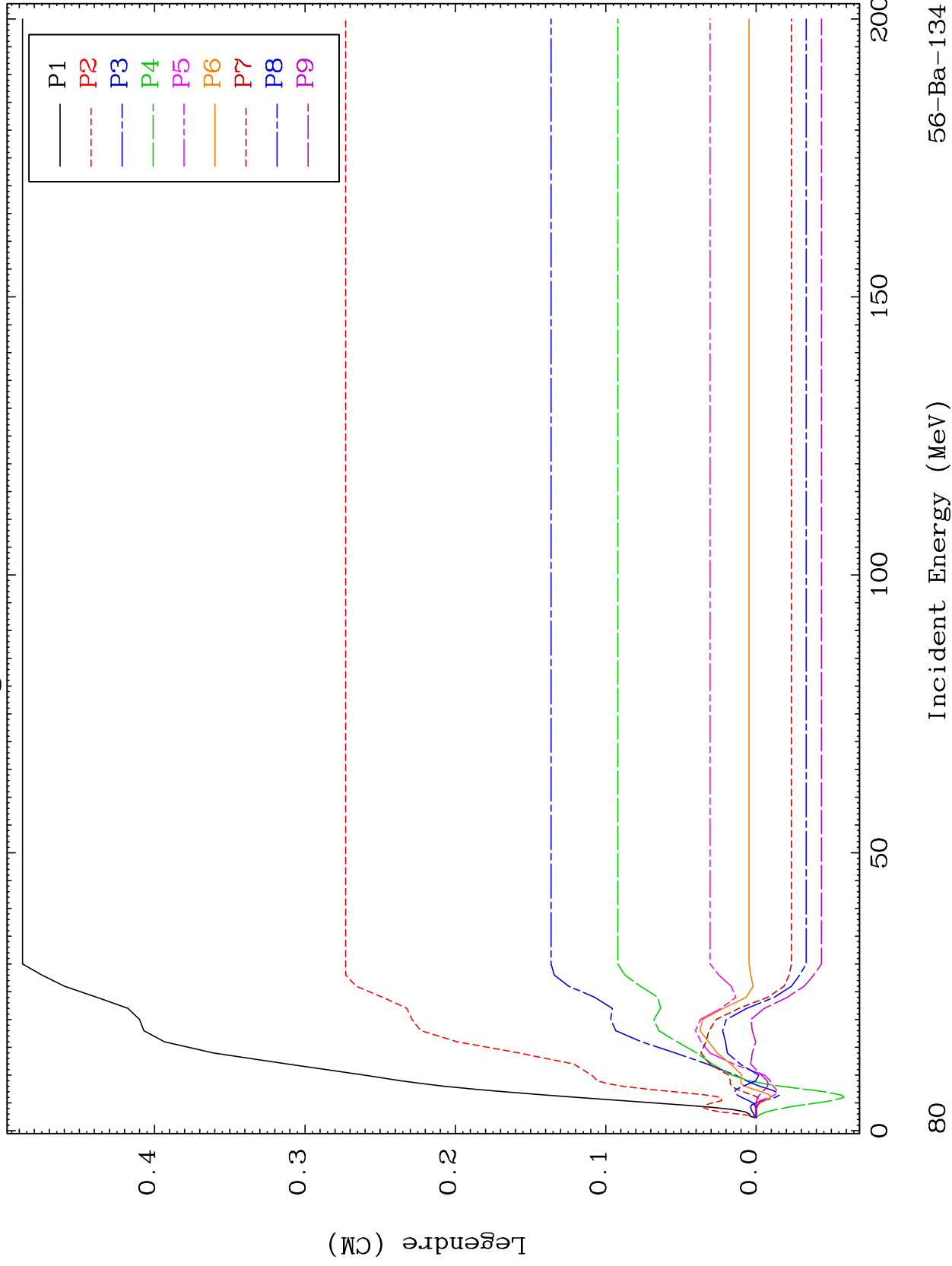




MAT 5637

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

56-Ba-134

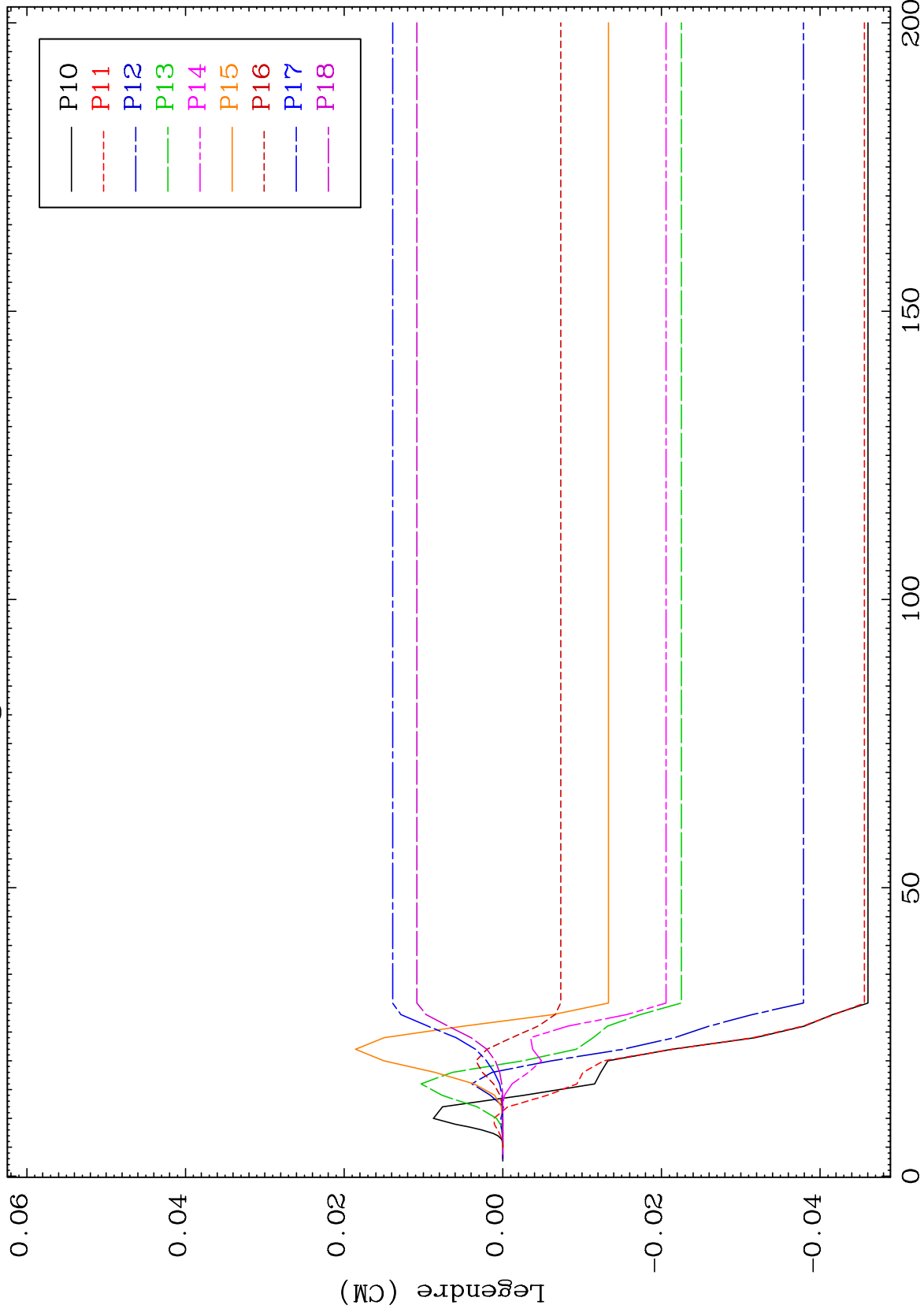


56-Ba-134

MAT 5637

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

56-Ba-134



81

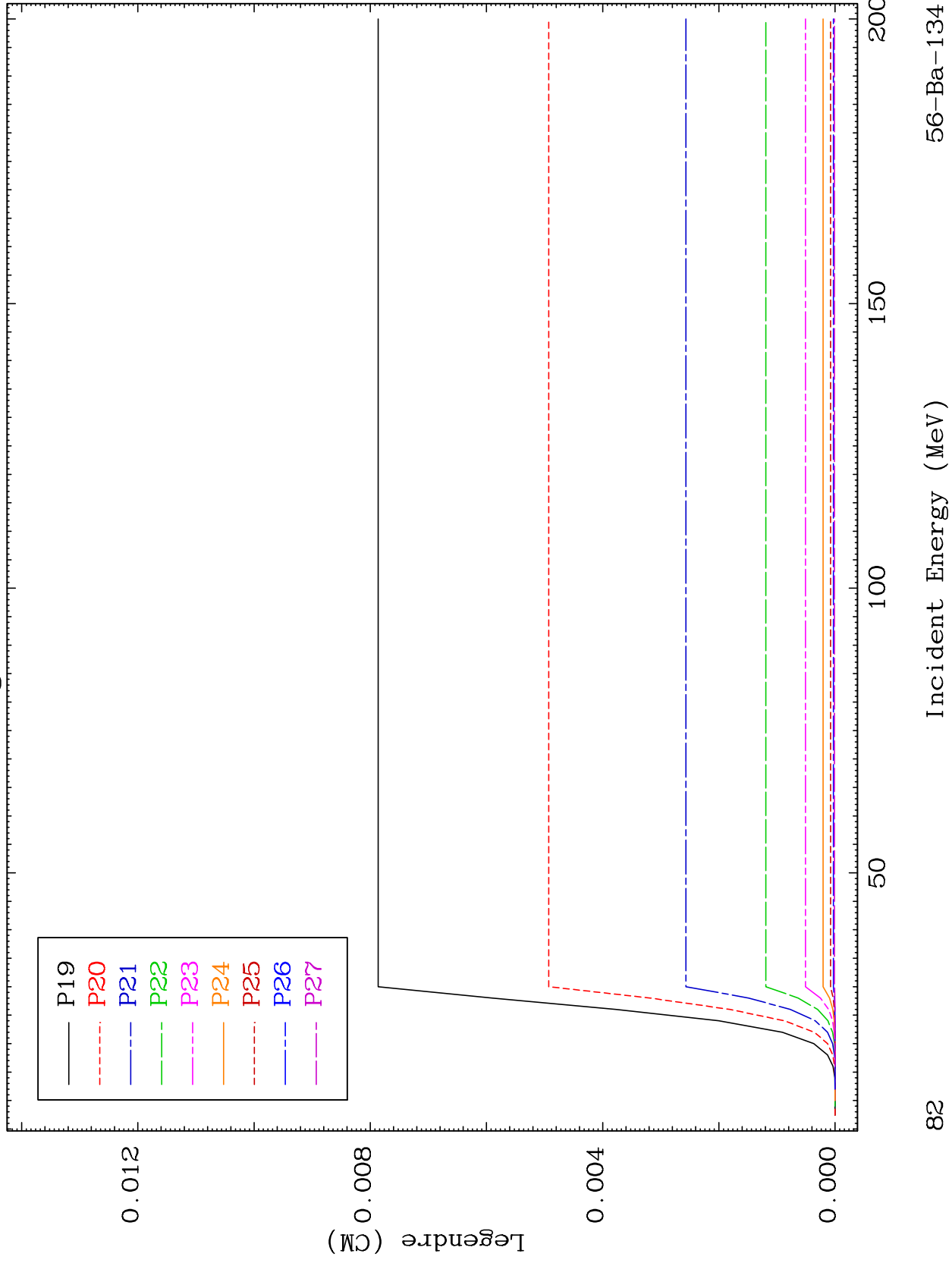
Incident Energy (MeV)

56-Ba-134

MAT 5637

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

56-Ba-134



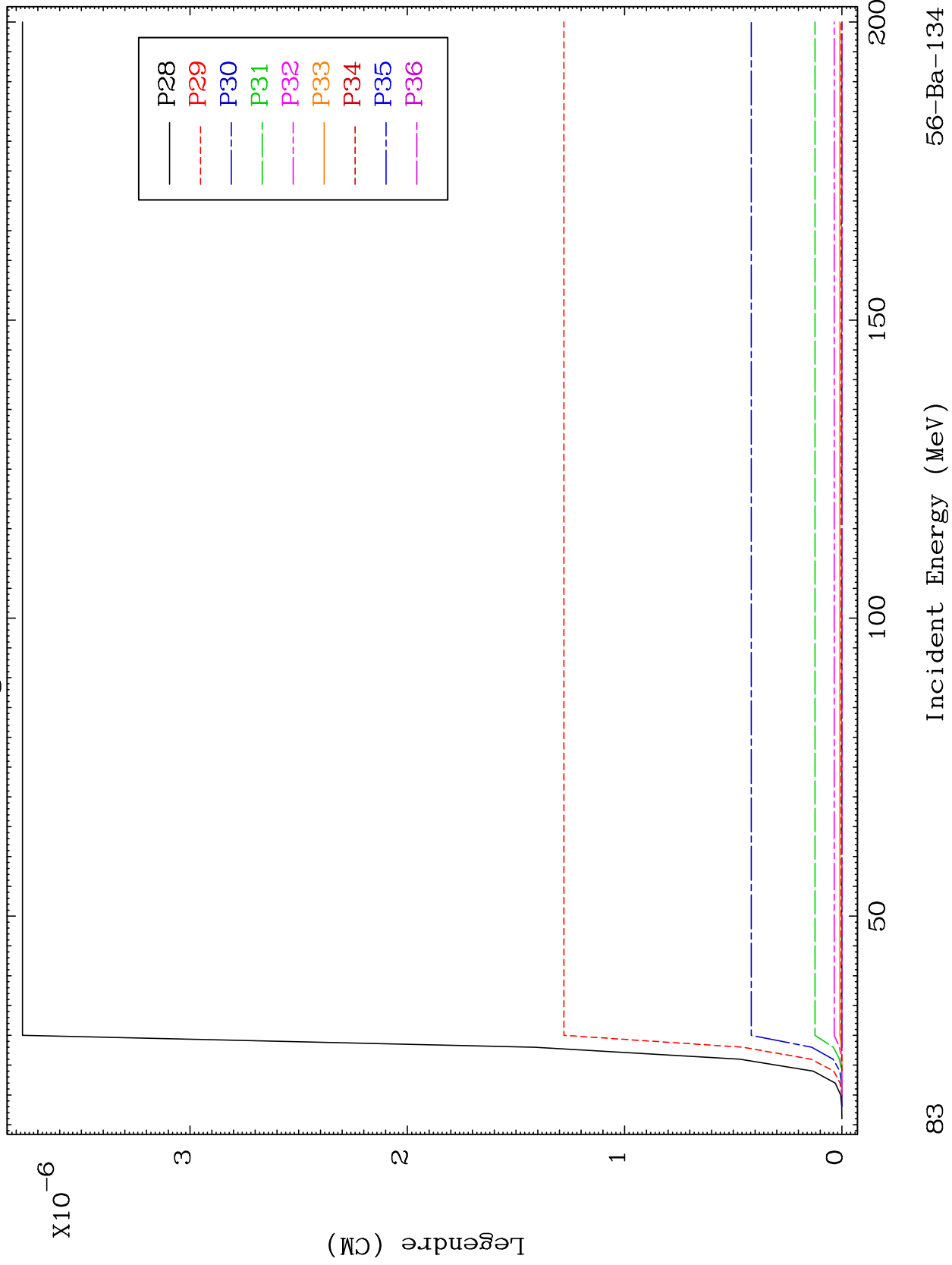
82

56-Ba-134

MAT 5637

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

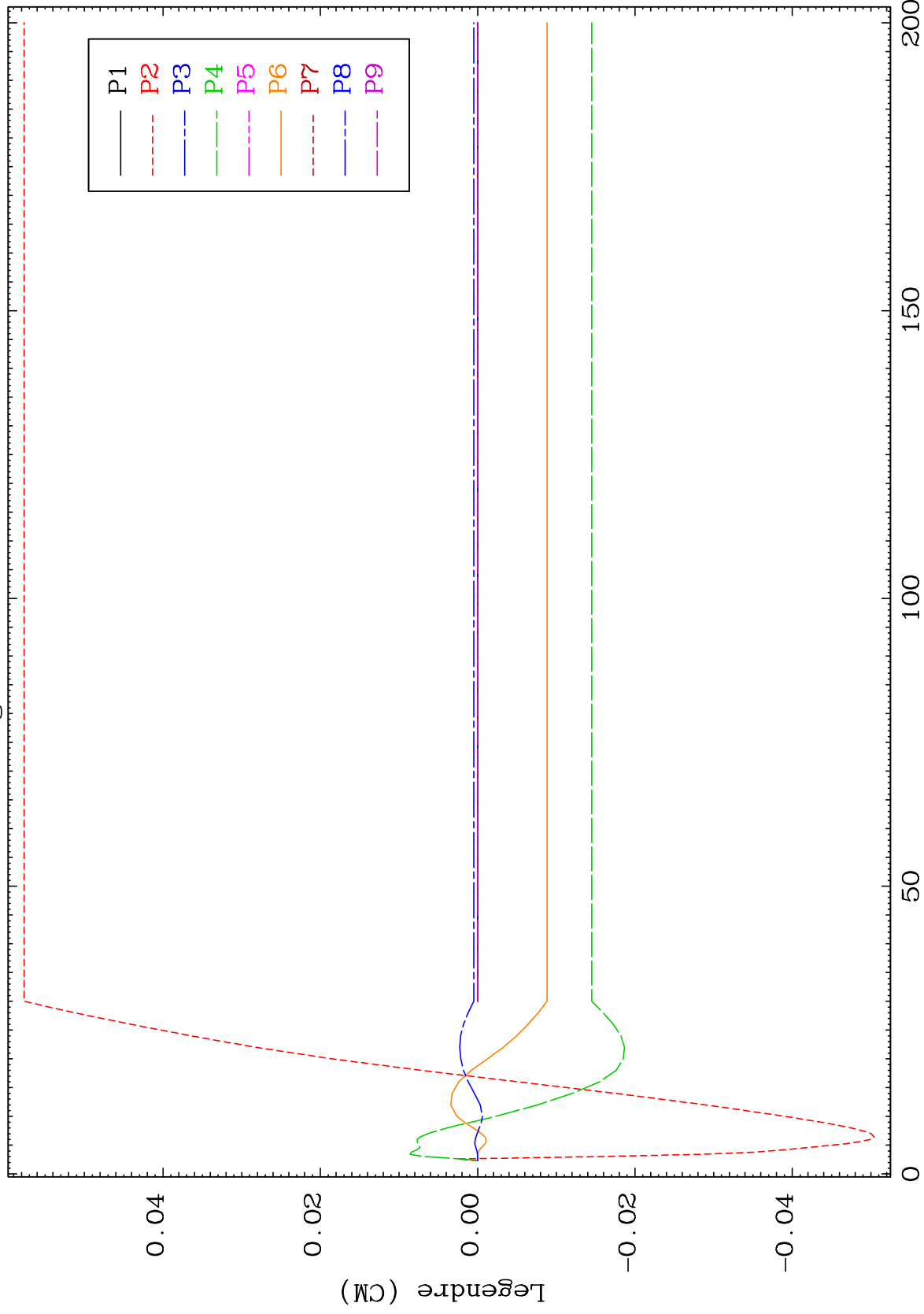
56-Ba-134



MAT 5637

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

56-Ba-134



84

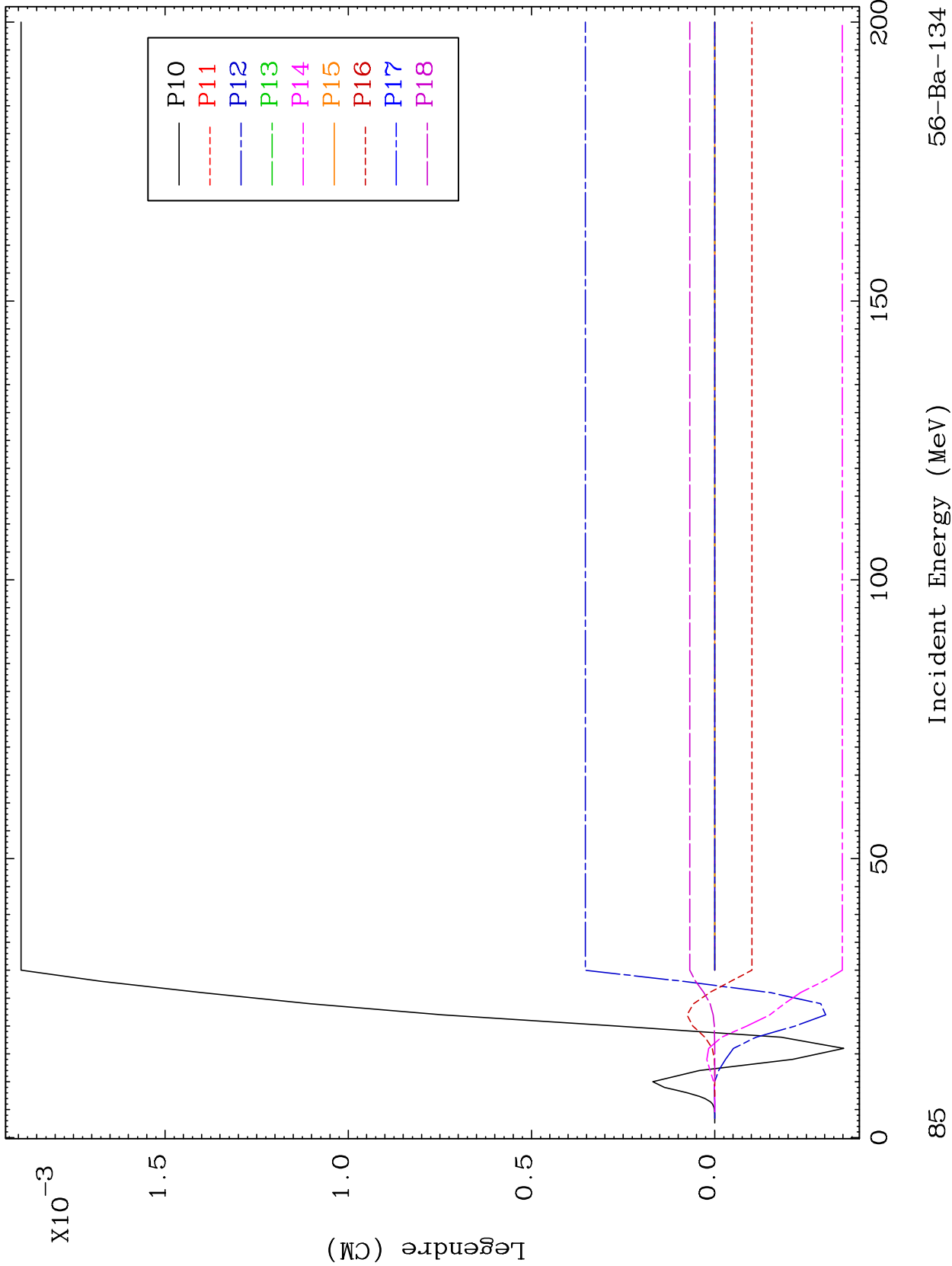
Incident Energy (MeV)

56-Ba-134

MAT 5637

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

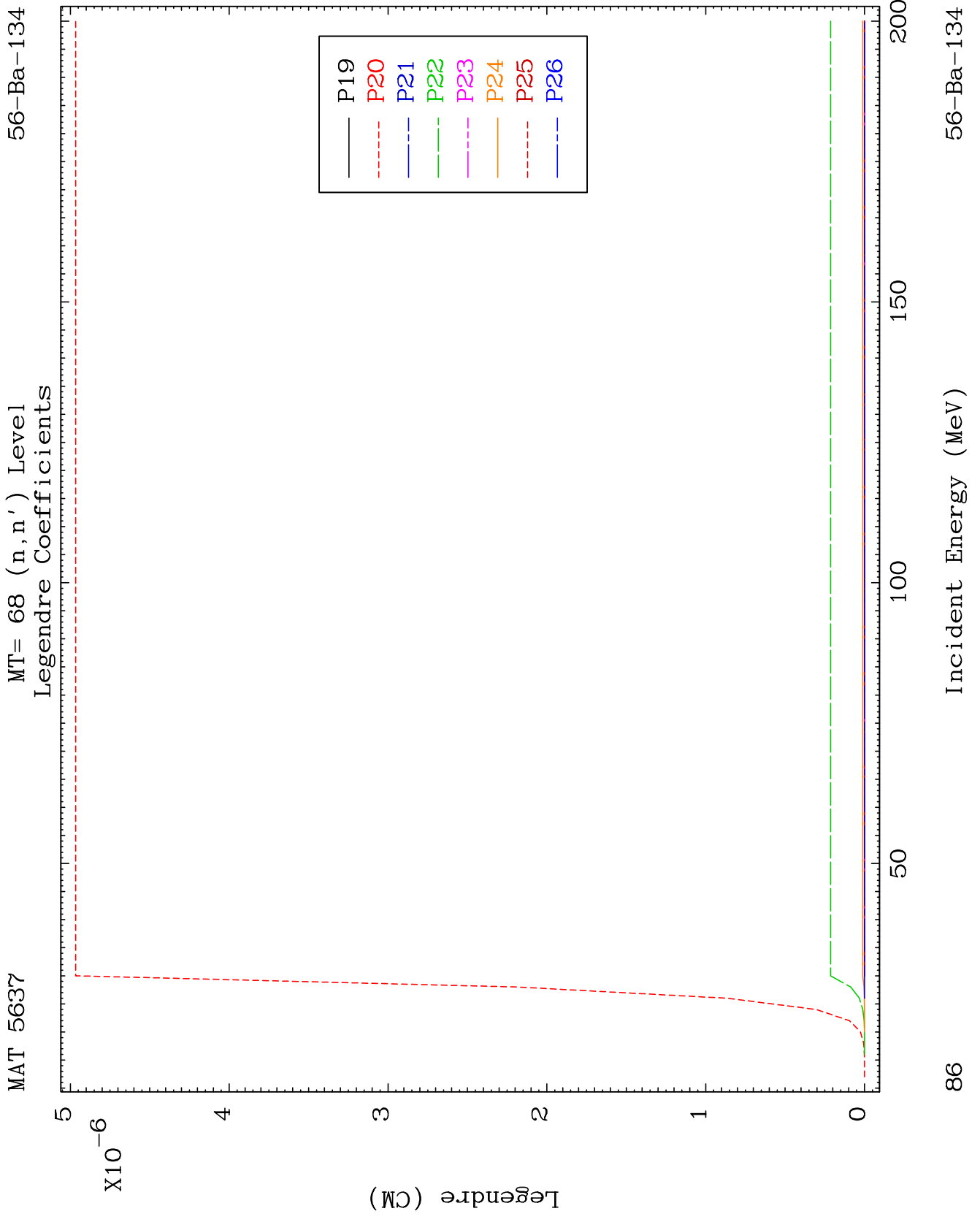
56-Ba-134



85

Incident Energy (MeV)

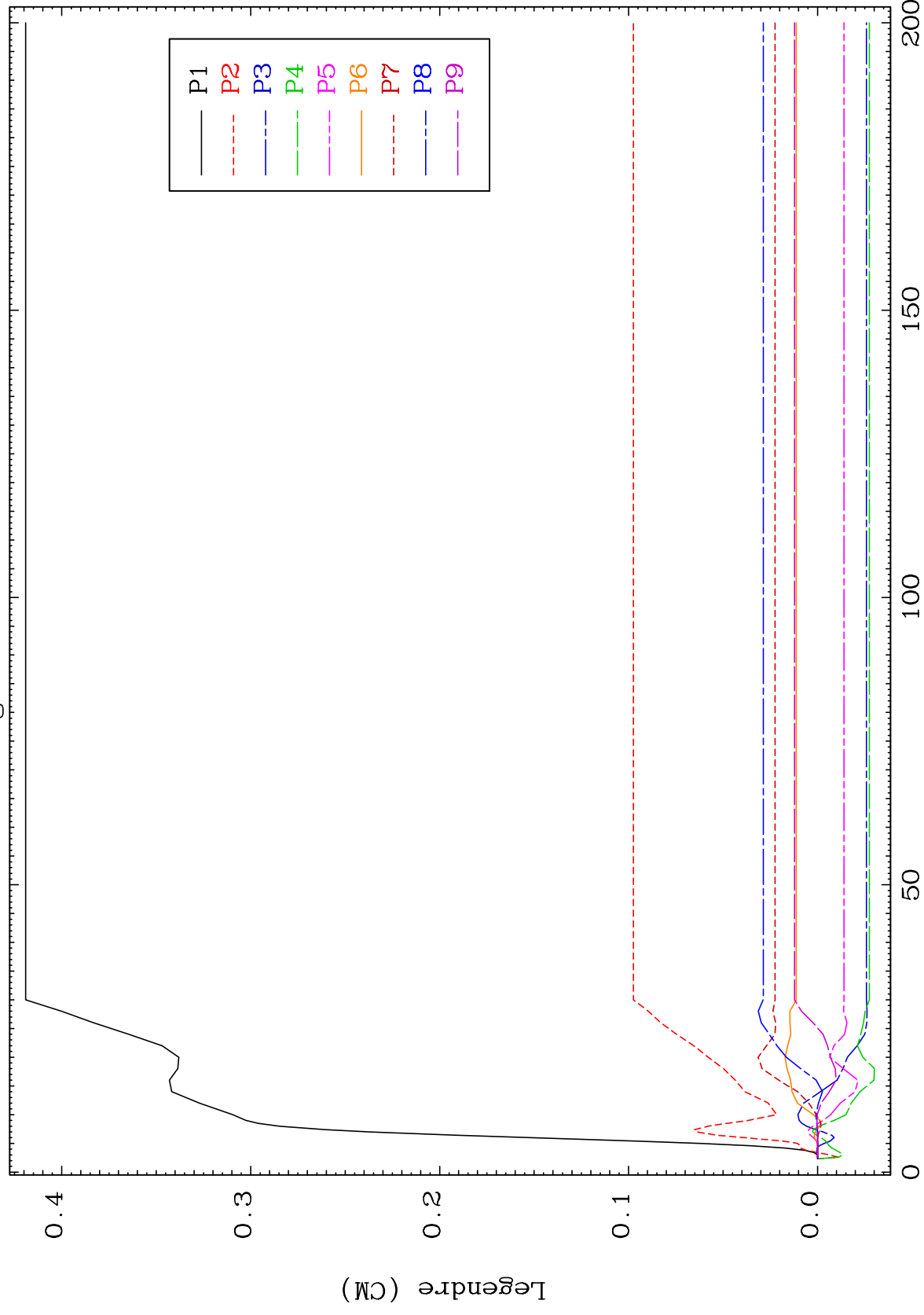
56-Ba-134



MAT 5637

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

56-Ba-134



87

Incident Energy (MeV)

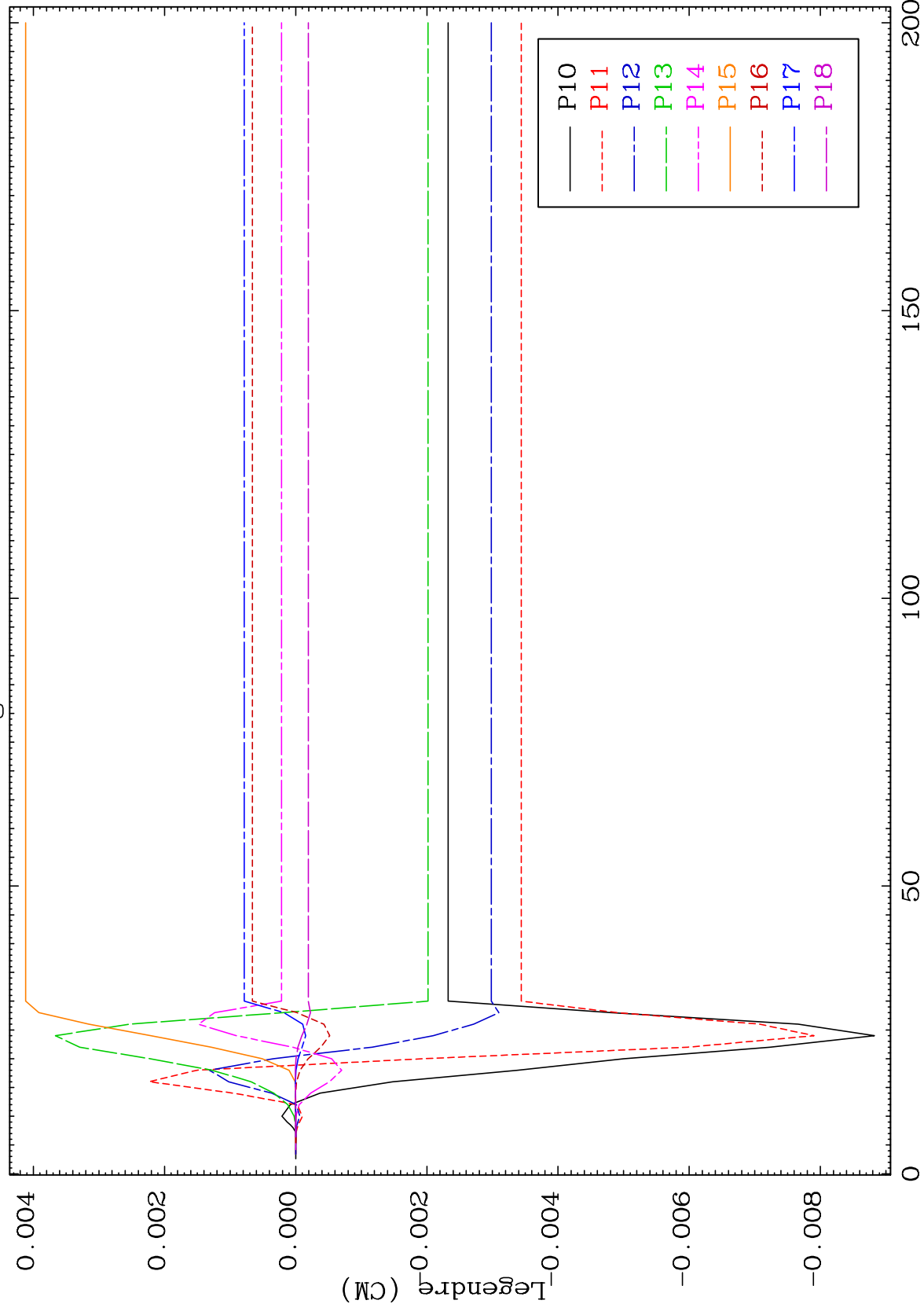
56-Ba-134



MAT 5637

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

56-Ba-134



88

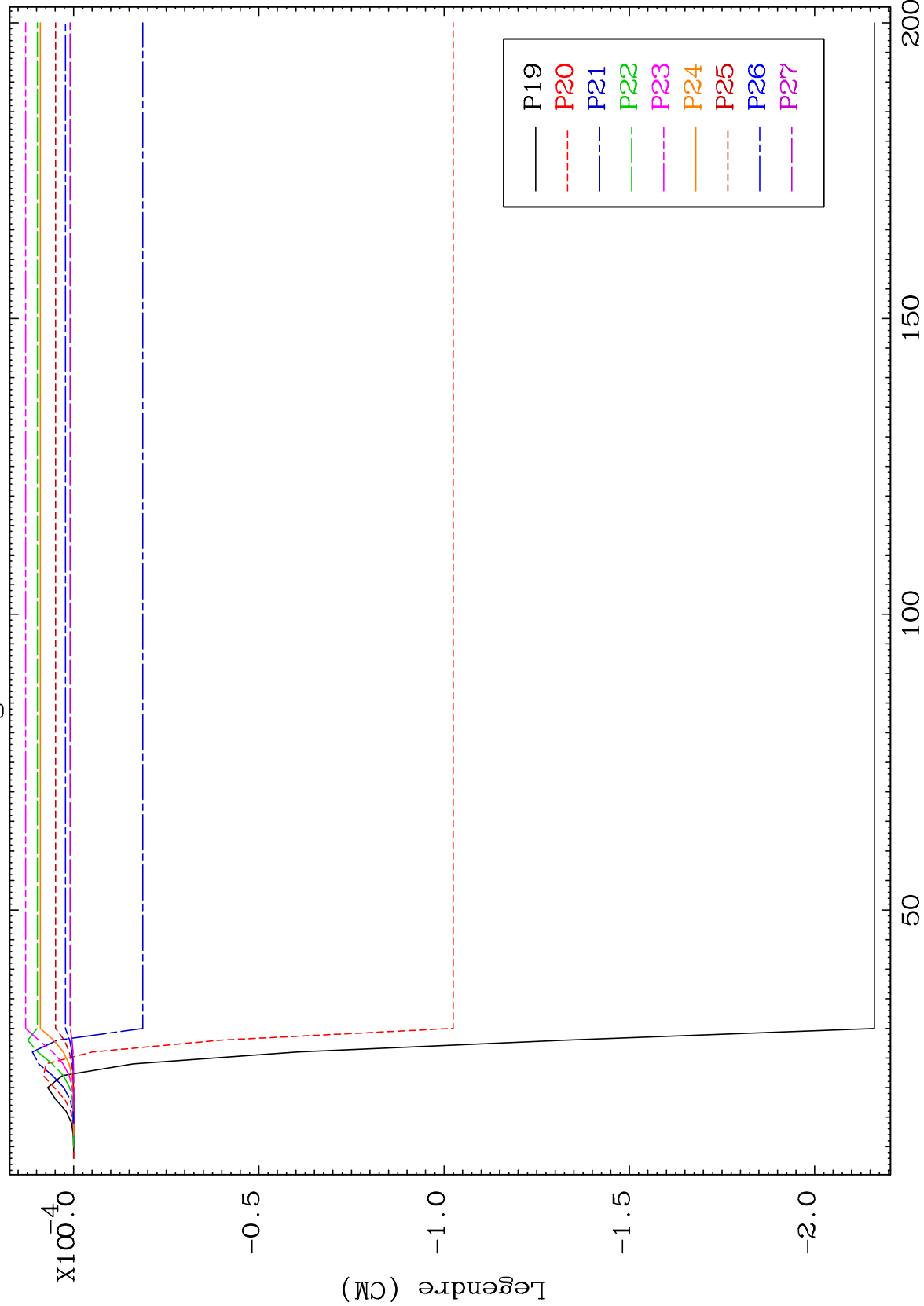
Incident Energy (MeV)

56-Ba-134

MAT 5637

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

56-Ba-134



89

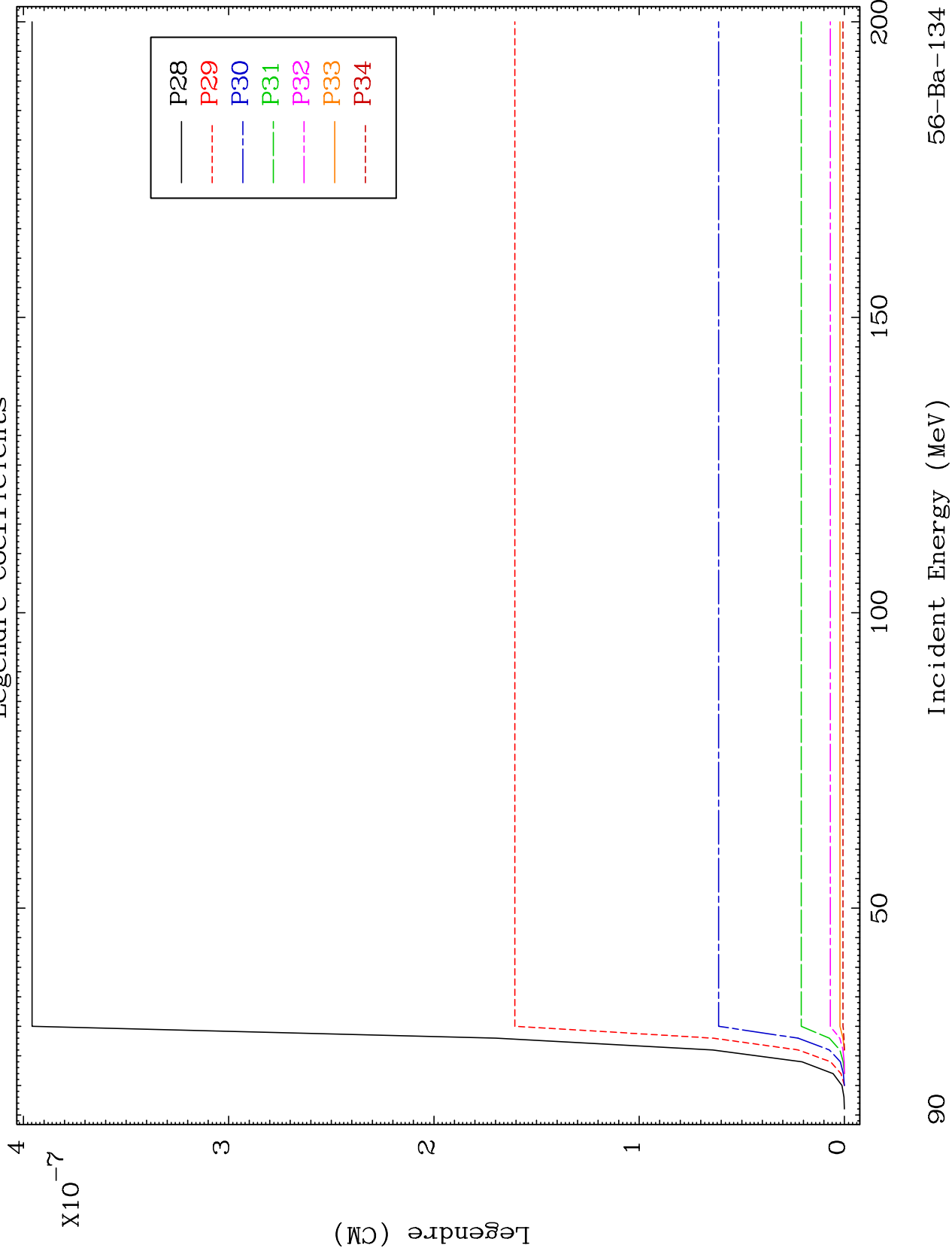
Incident Energy (MeV)

56-Ba-134

MAT 5637

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

56-Ba-134

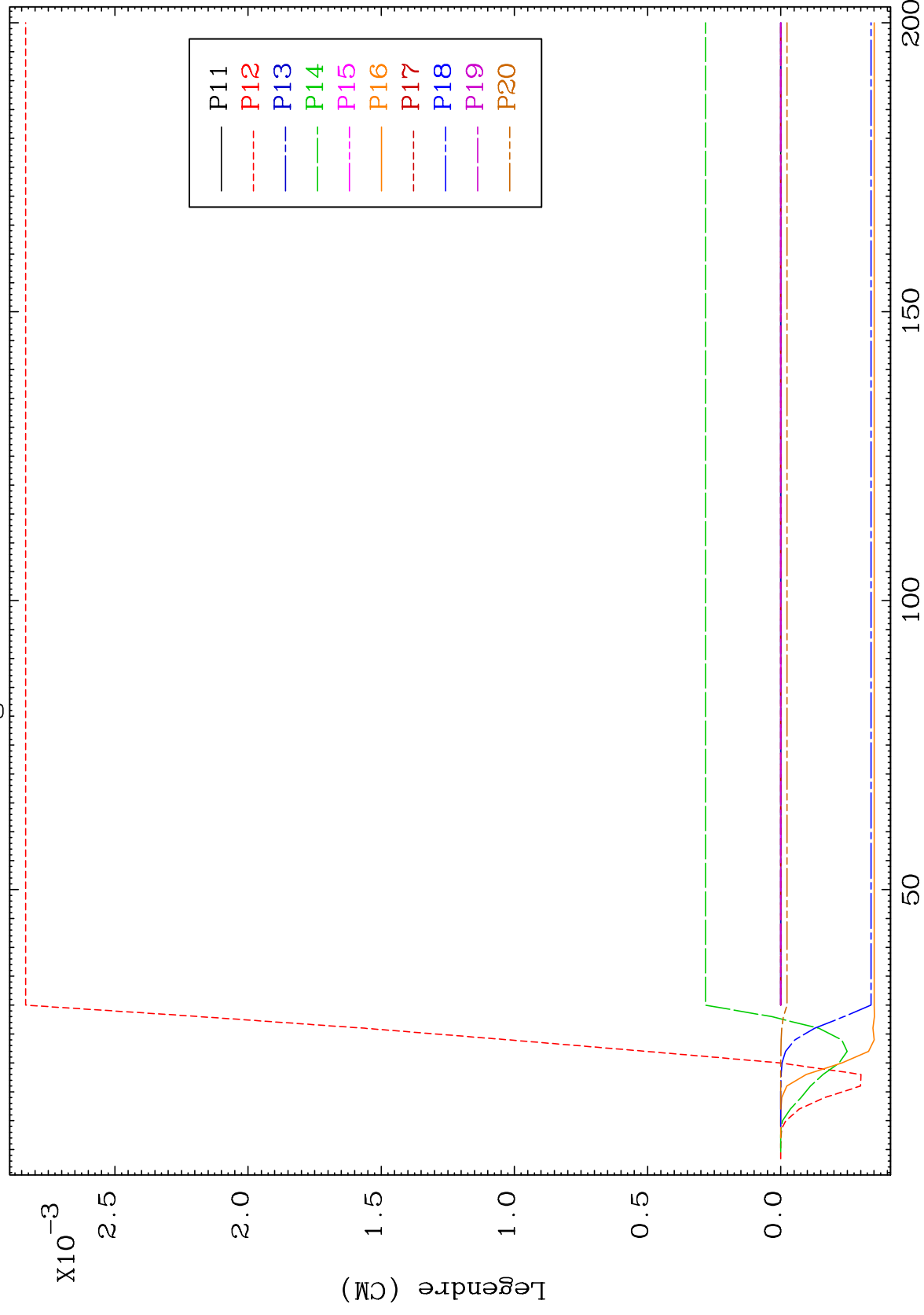


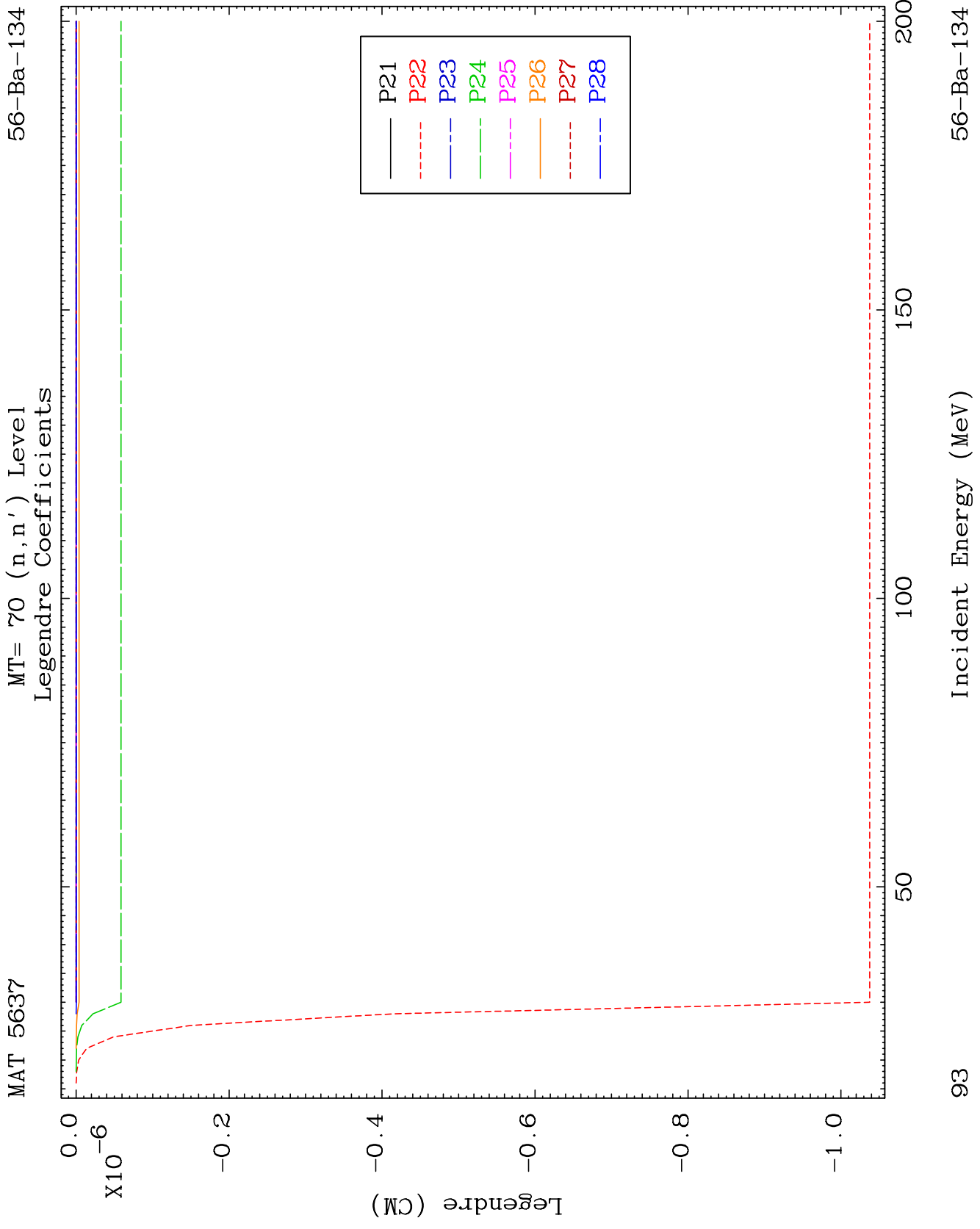


MAT 5637

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

56-Ba-134

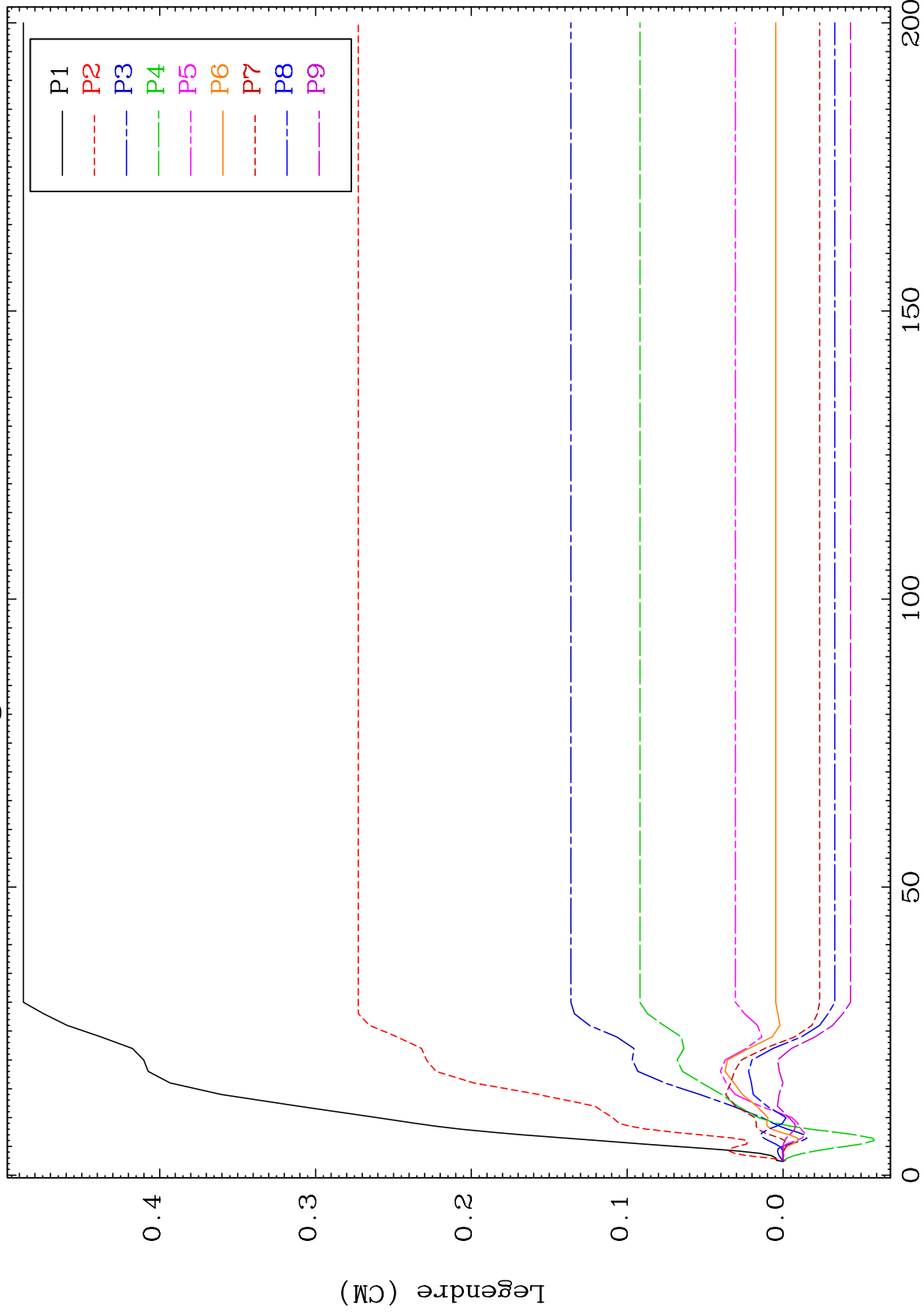




MAT 5637

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

56-Ba-134



94

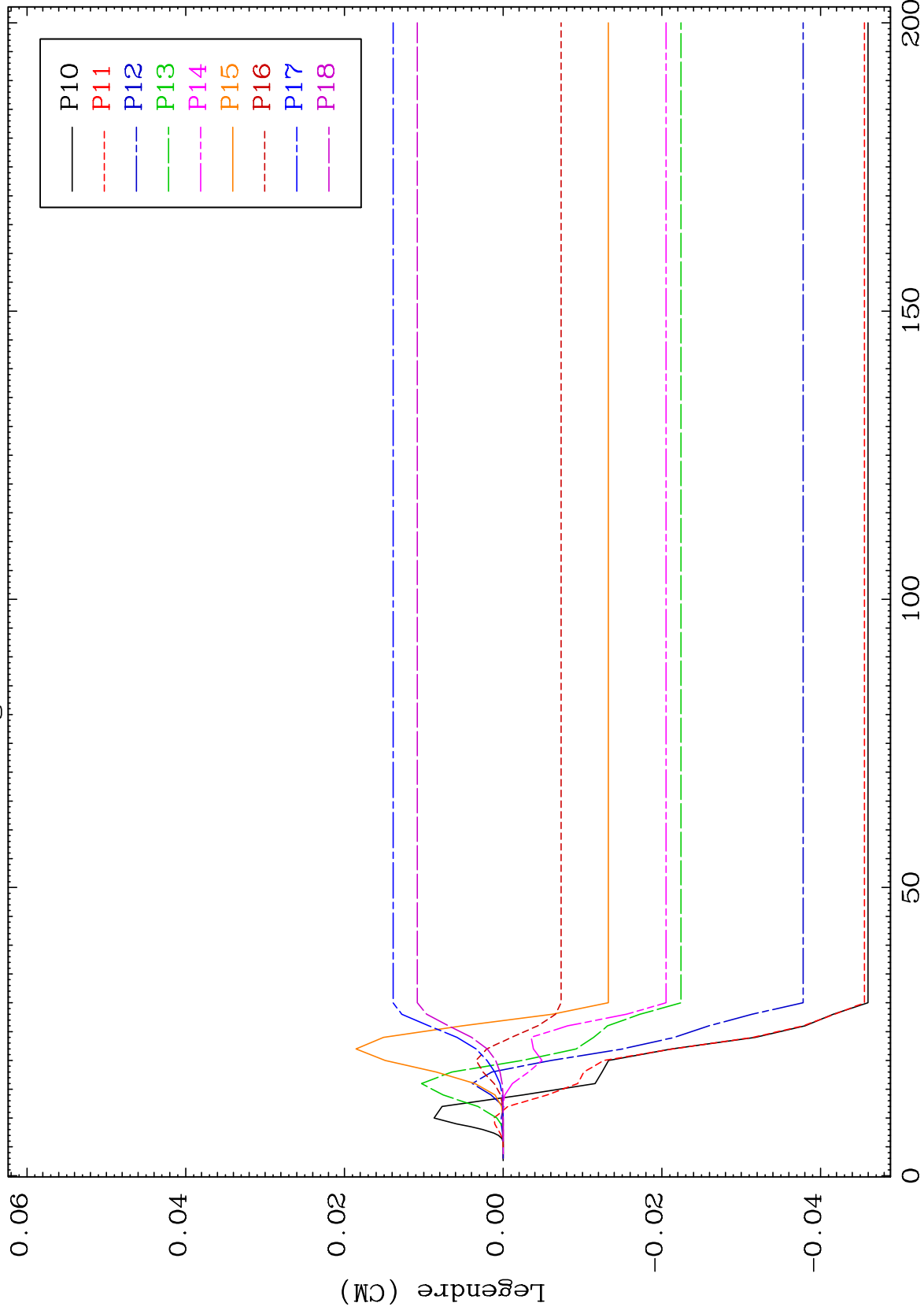
Incident Energy (MeV)

56-Ba-134

MAT 5637

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

56-Ba-134



95

Incident Energy (MeV)

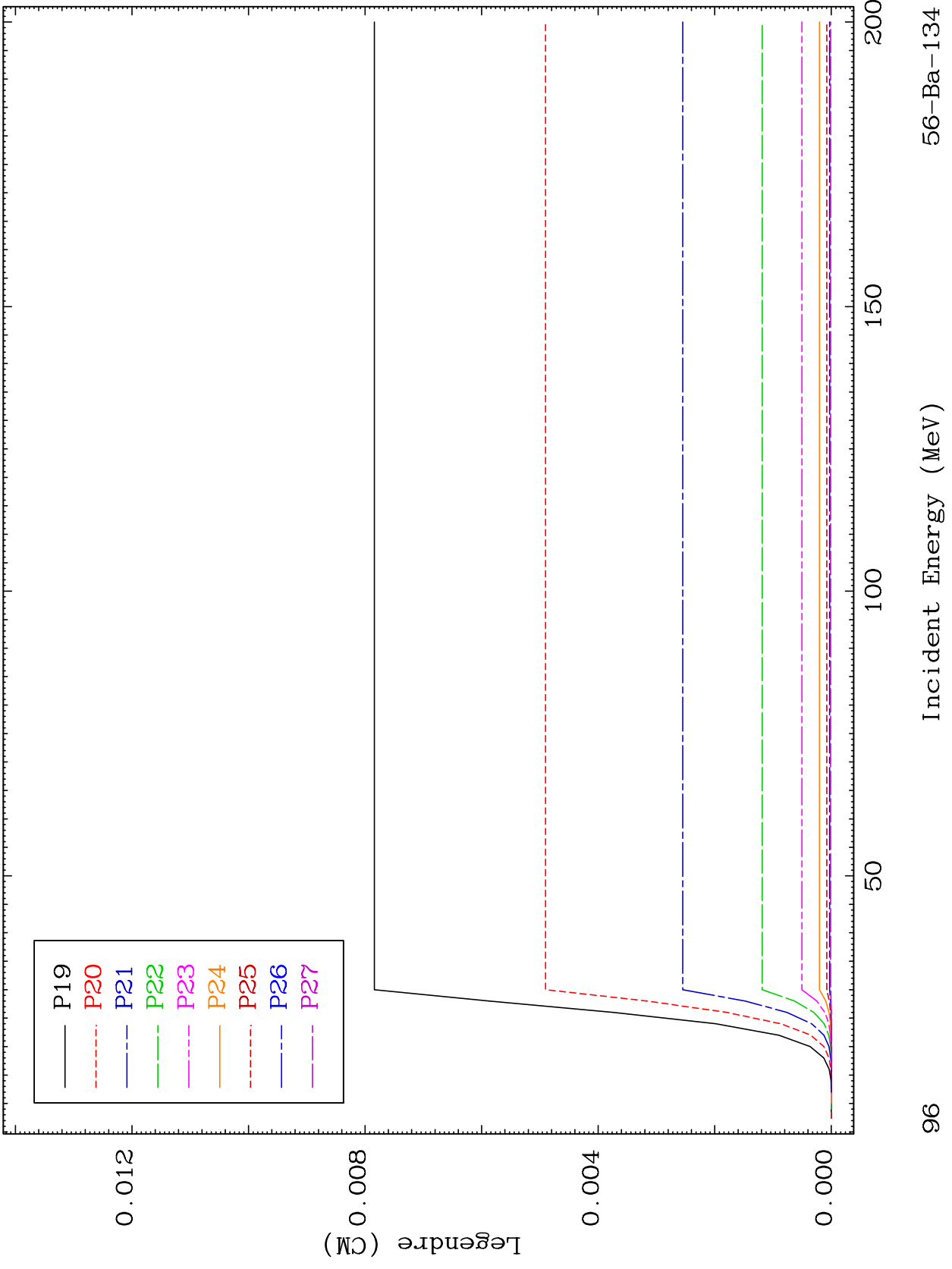
56-Ba-134



MAT 5637

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

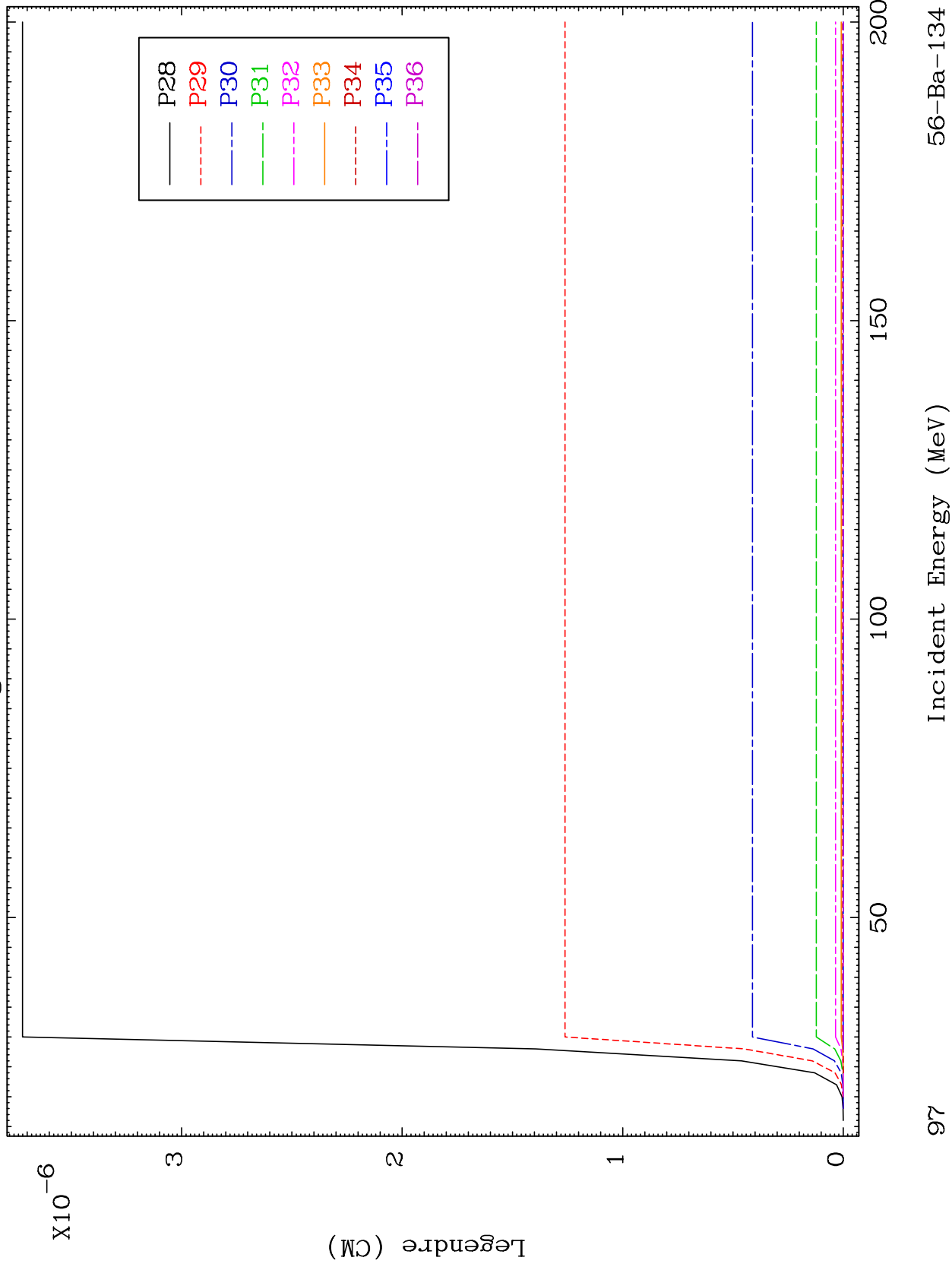
56-Ba-134



MAT 5637

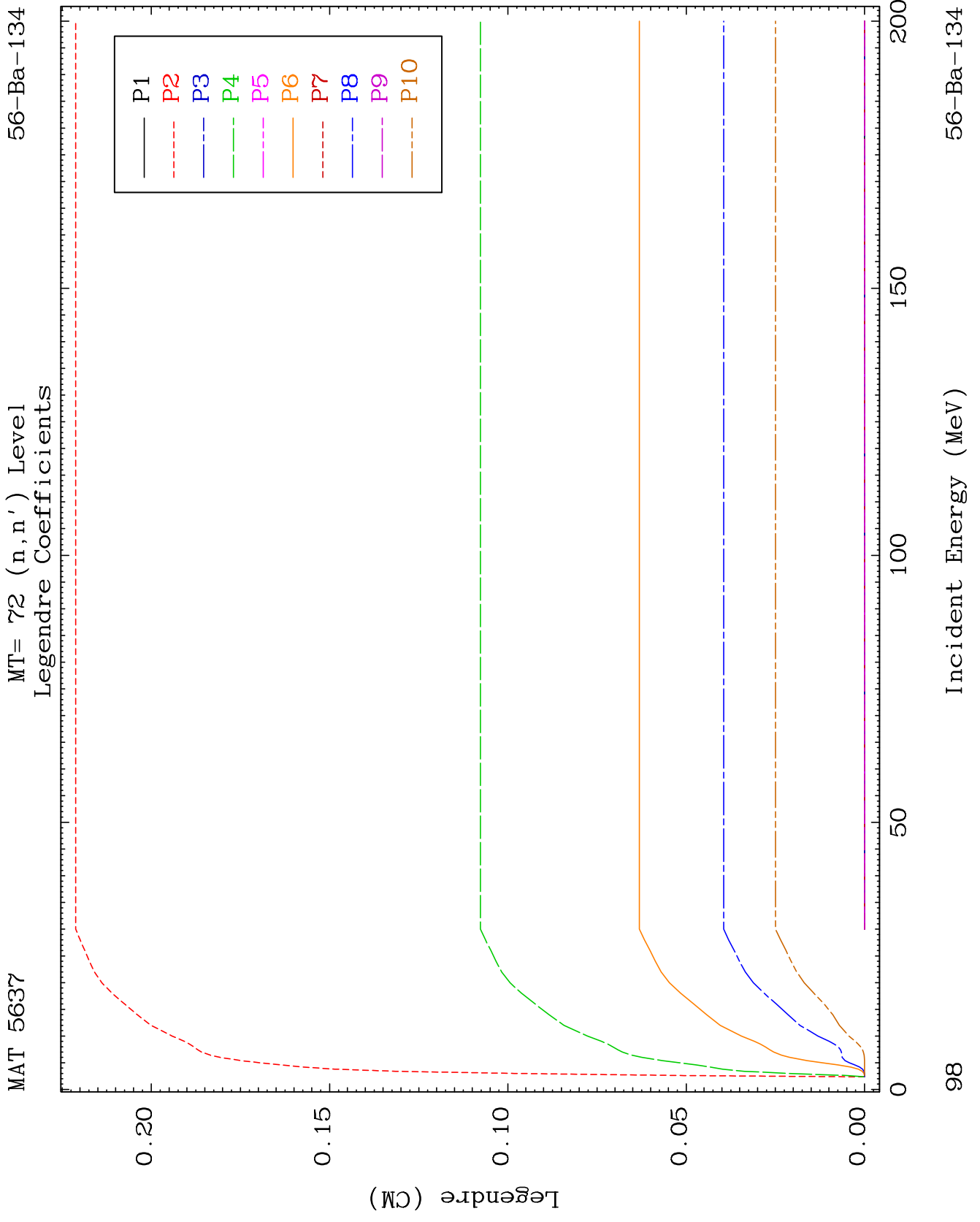
MT= 71 (n,n') Level  
Legendre Coefficients

56-Ba-134



97

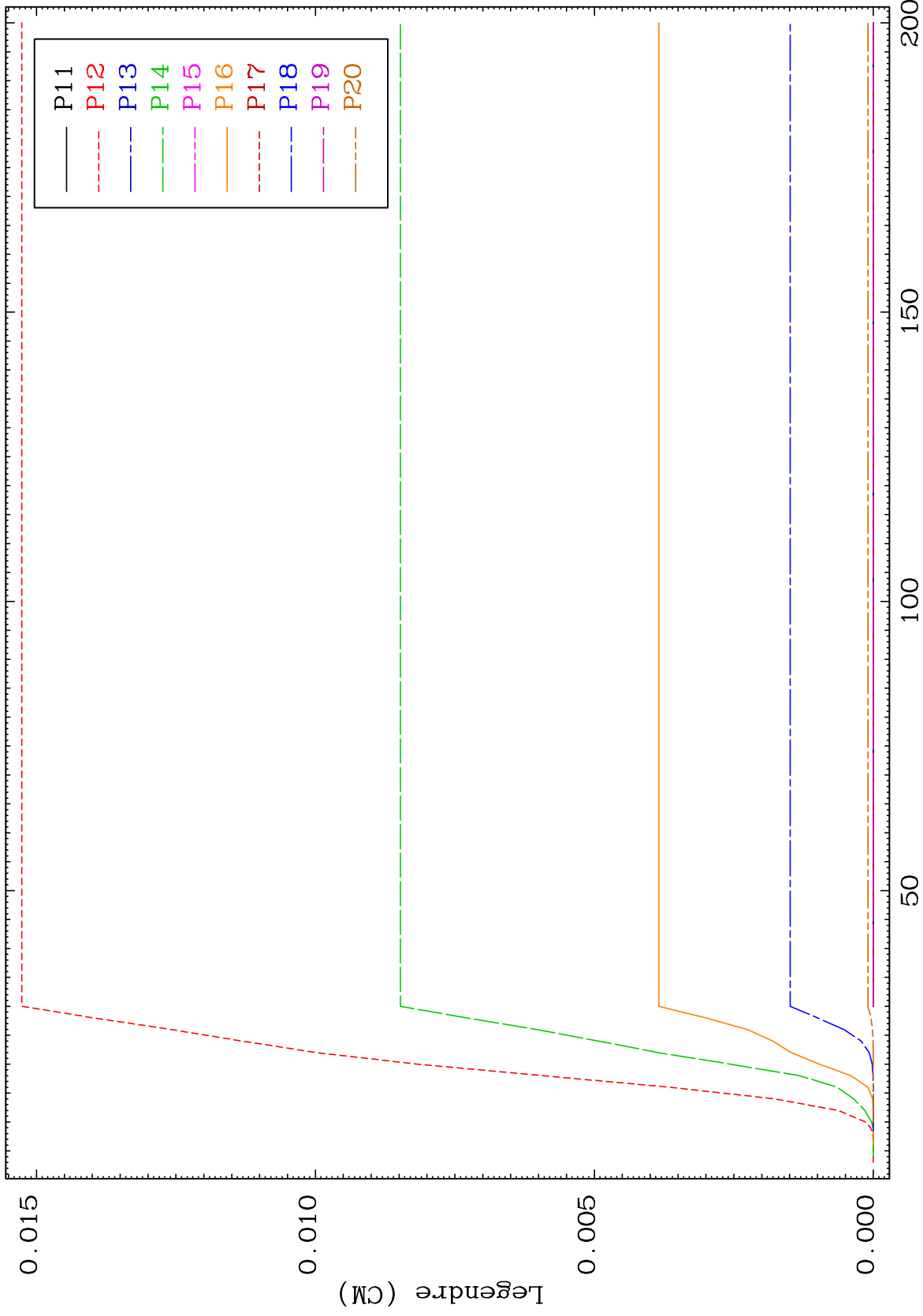
56-Ba-134



MAT 5637

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

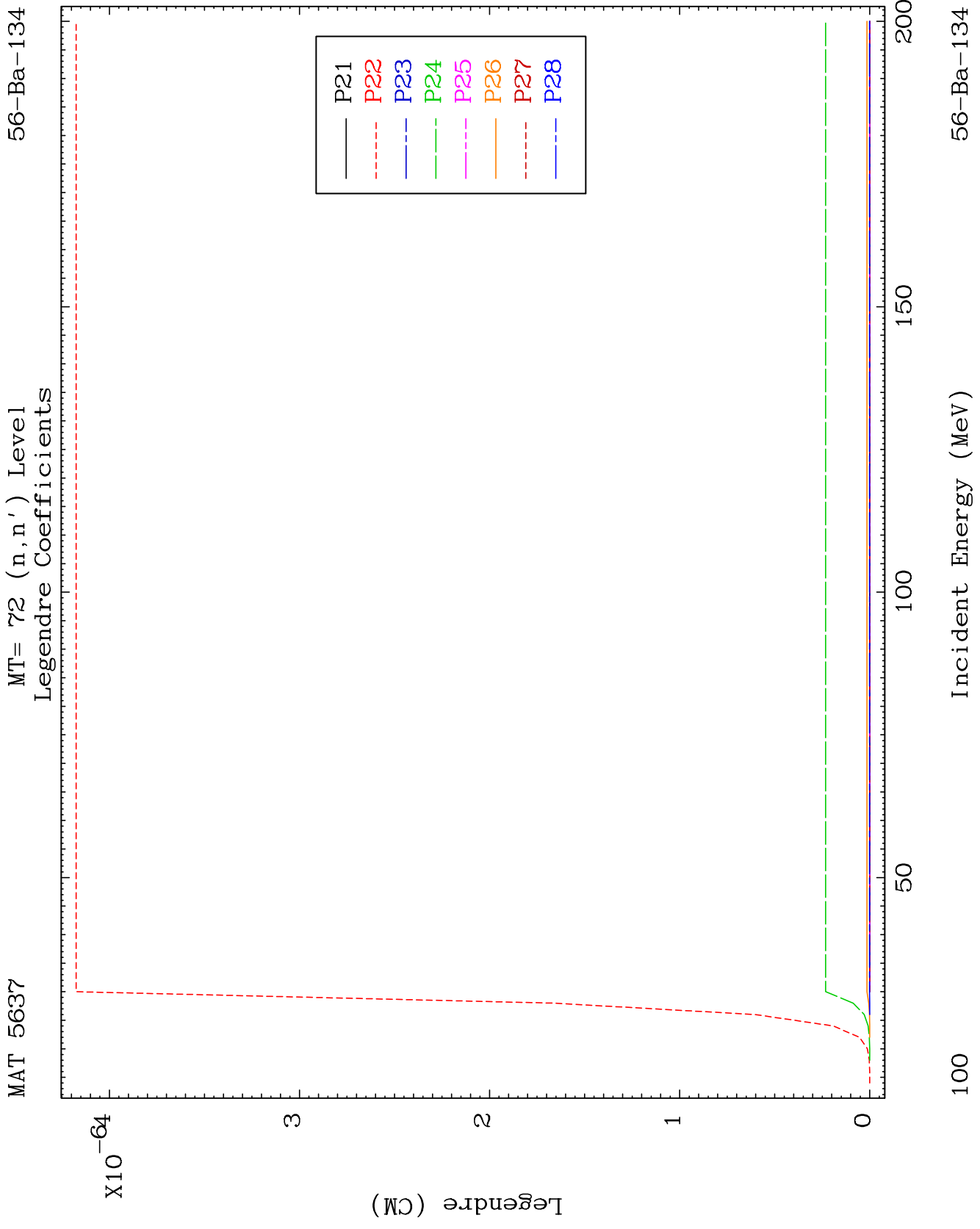
56-Ba-134



99

Incident Energy (MeV)

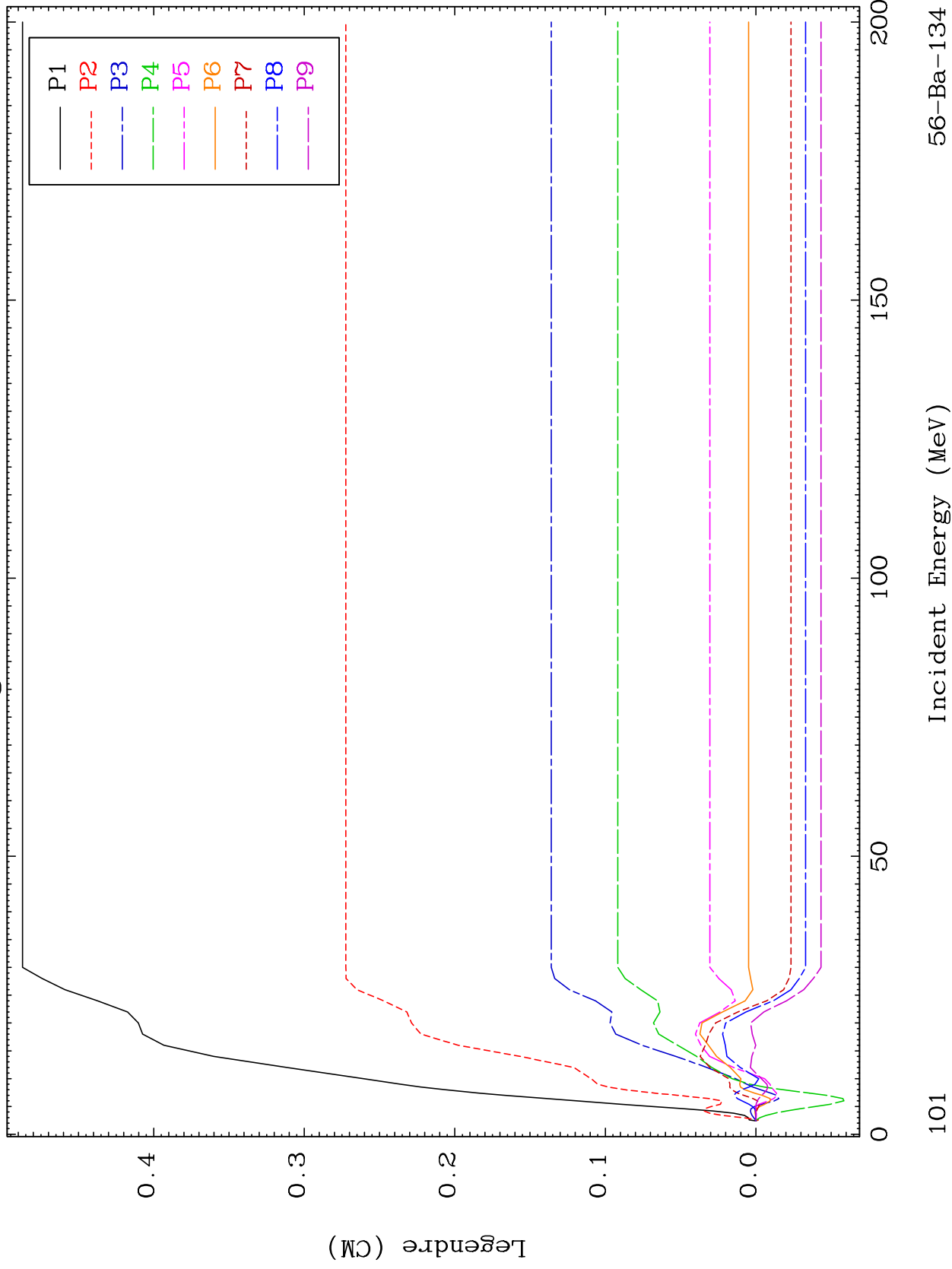
56-Ba-134



MAT 5637

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

56-Ba-134



56-Ba-134

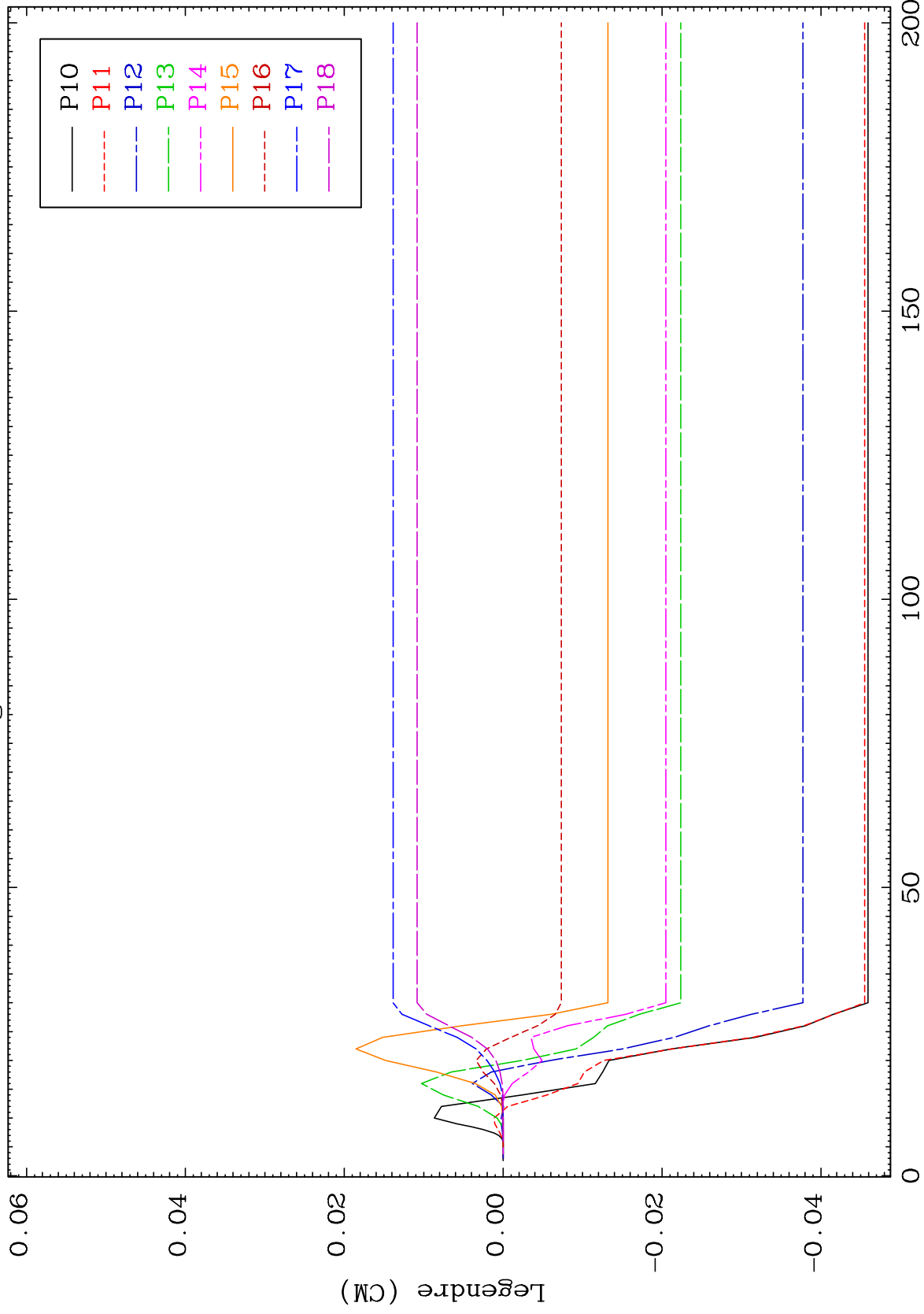
Incident Energy (MeV)

101

MAT 5637

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

56-Ba-134



102

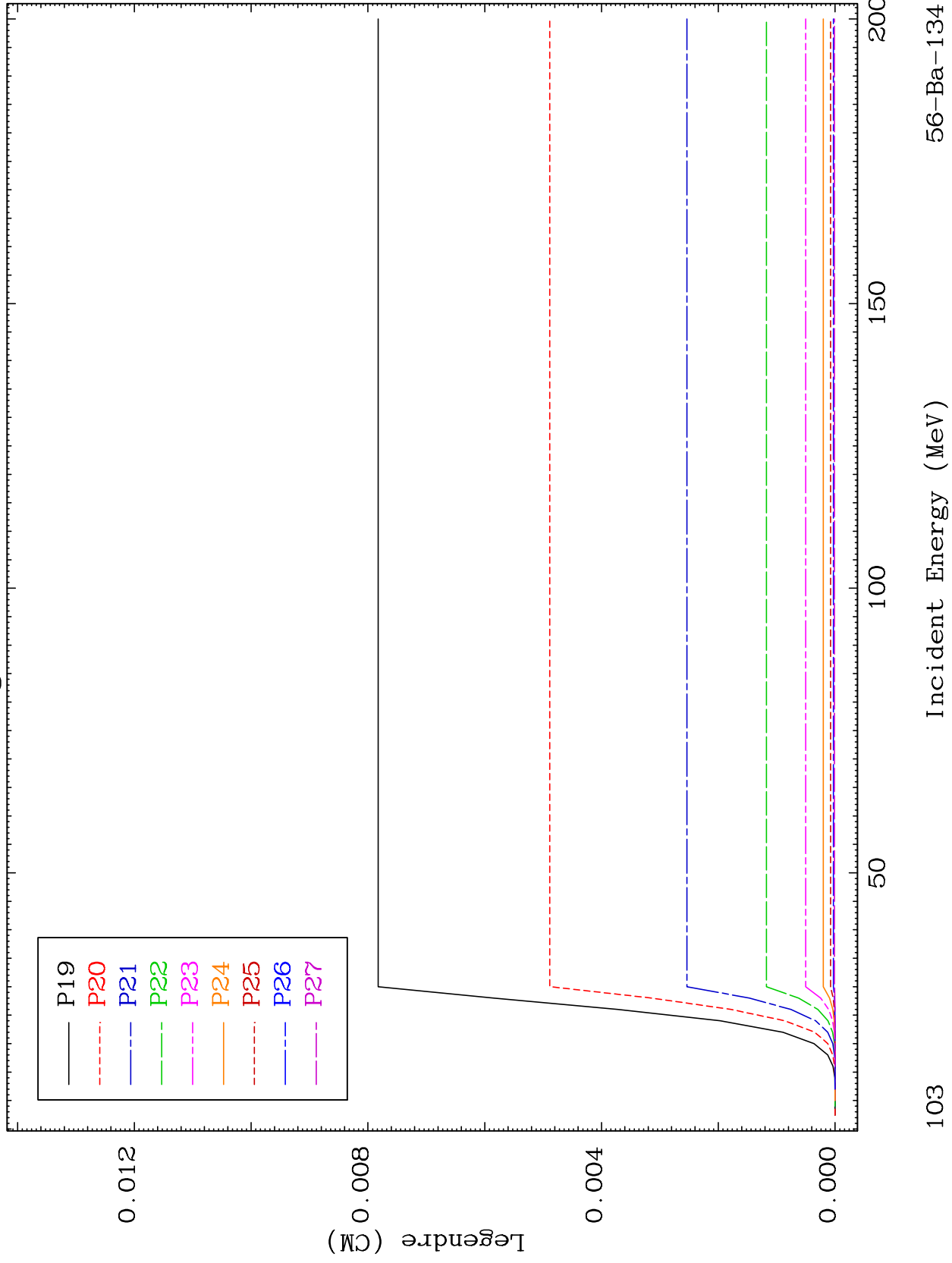
Incident Energy (MeV)

56-Ba-134

MAT 5637

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

56-Ba-134



103

Incident Energy (MeV)

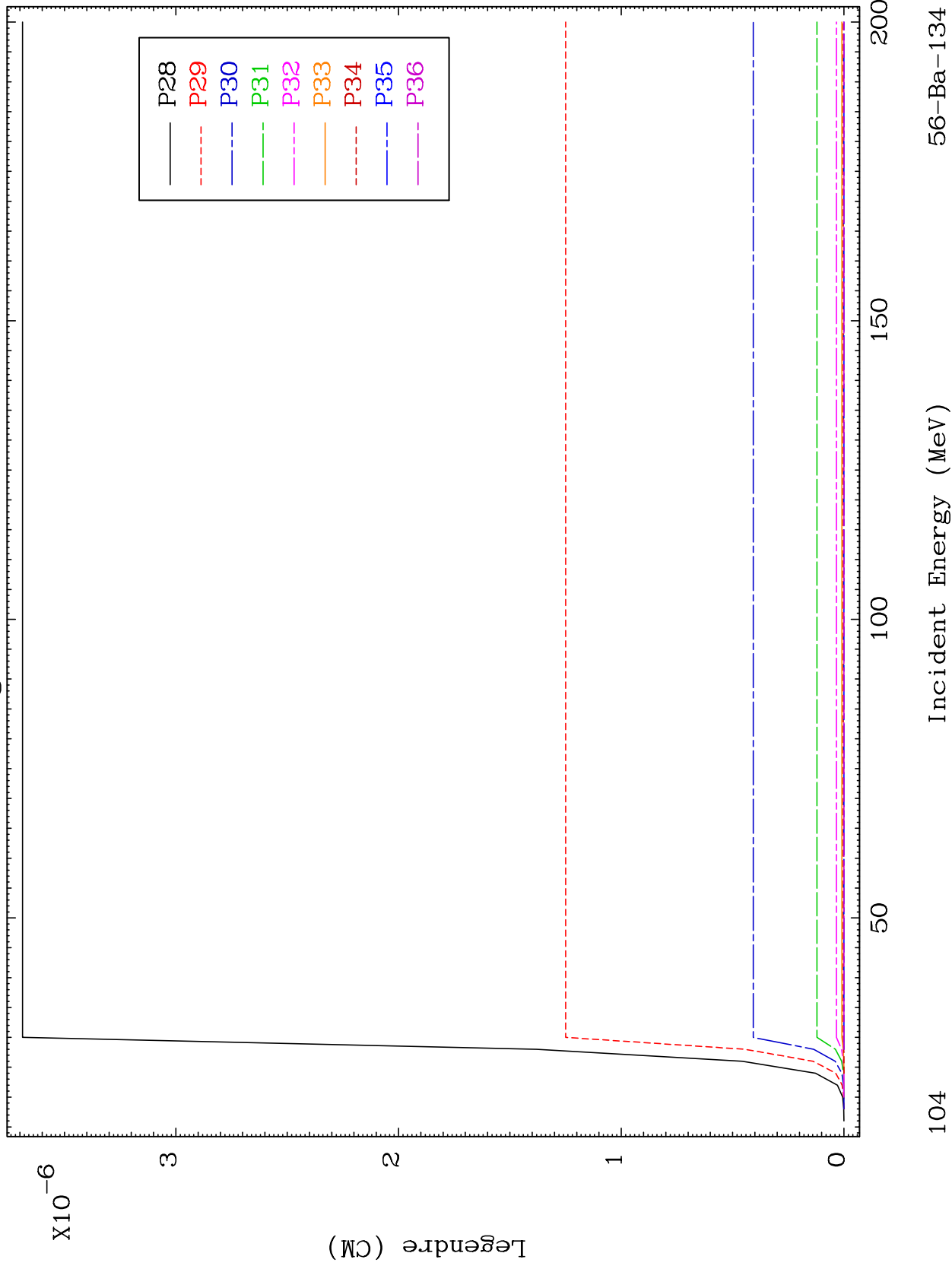
56-Ba-134



MAT 5637

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

56-Ba-134



104

Incident Energy (MeV)

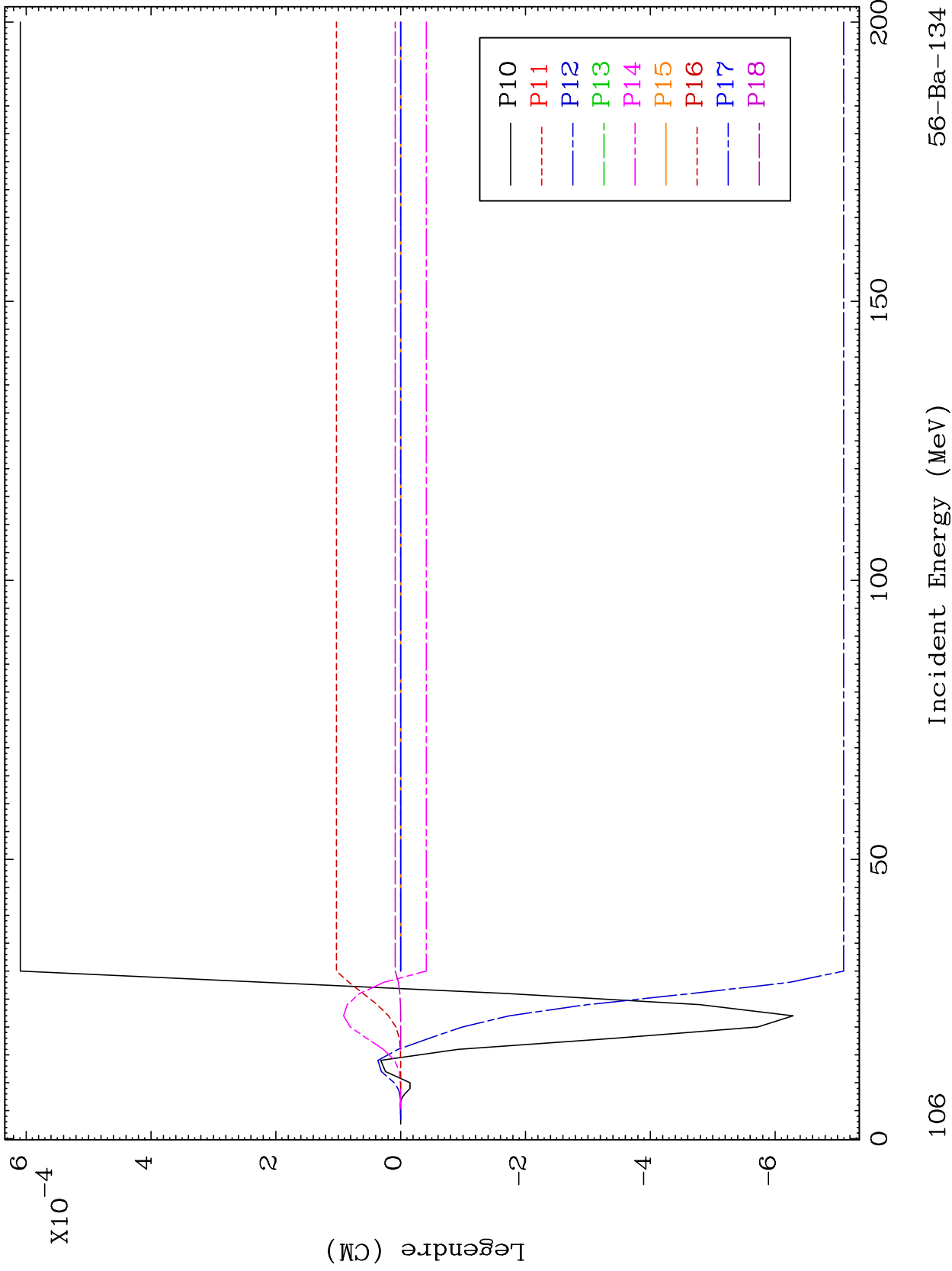
56-Ba-134



MAT 5637

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

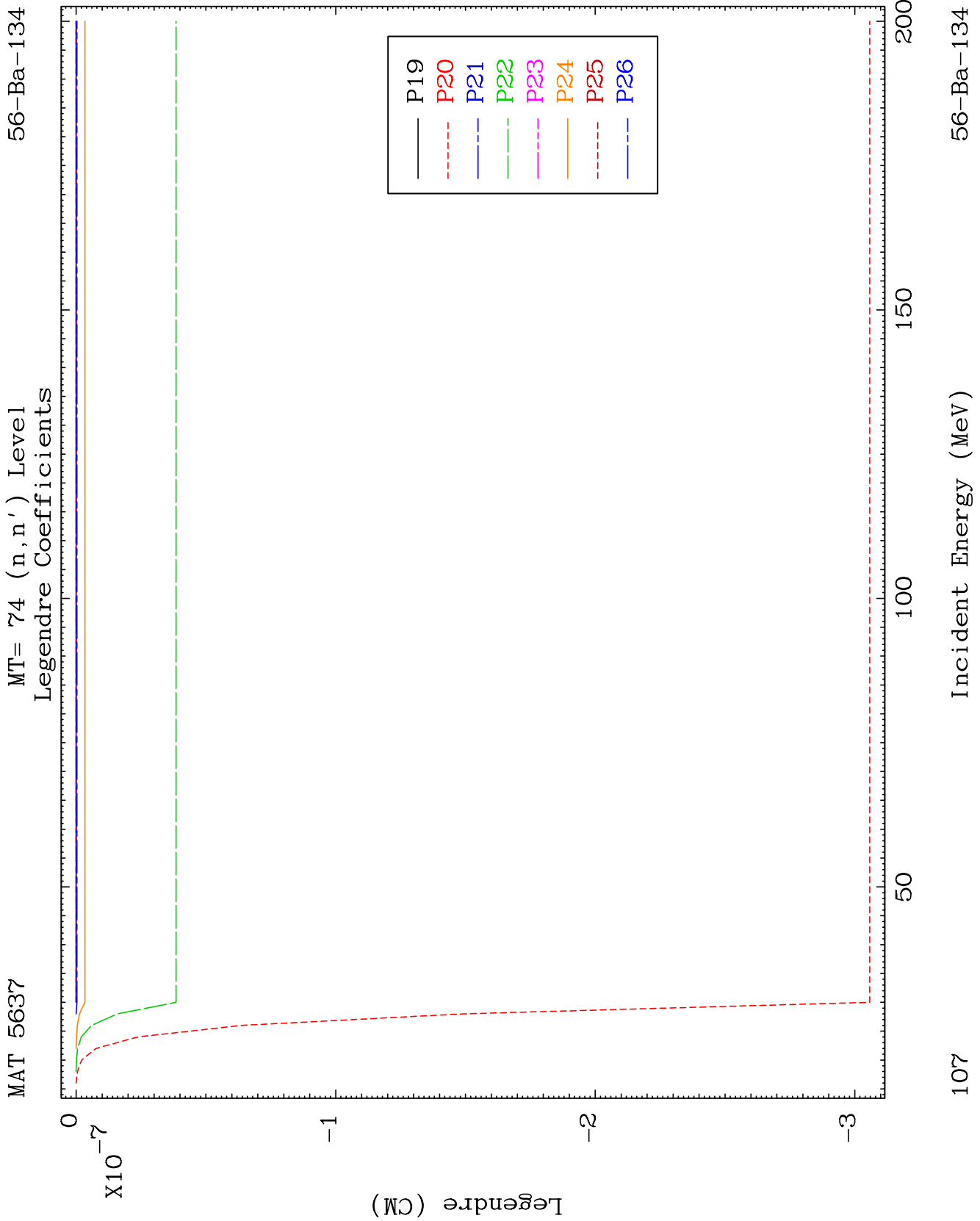
56-Ba-134

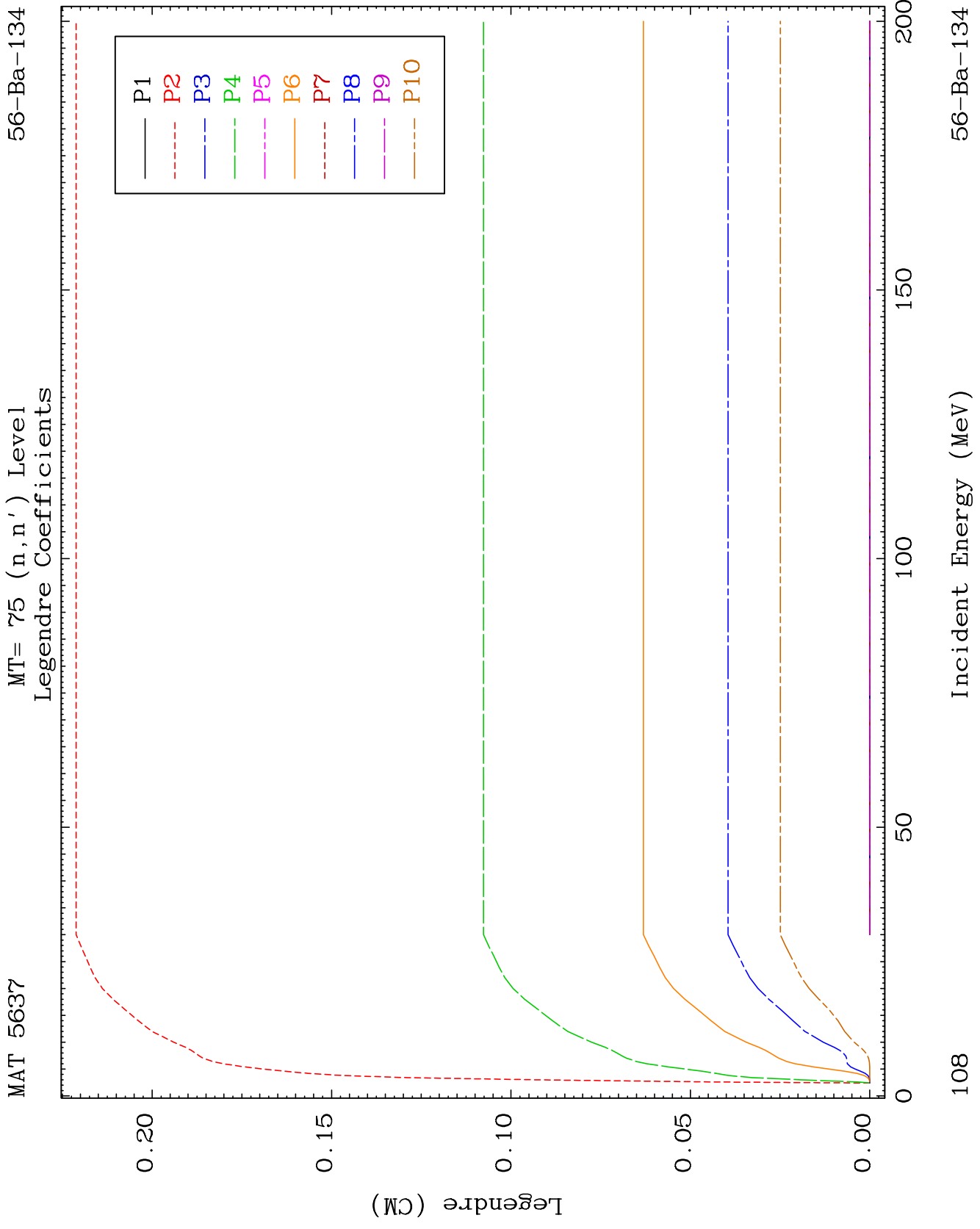


56-Ba-134

Incident Energy (MeV)

106

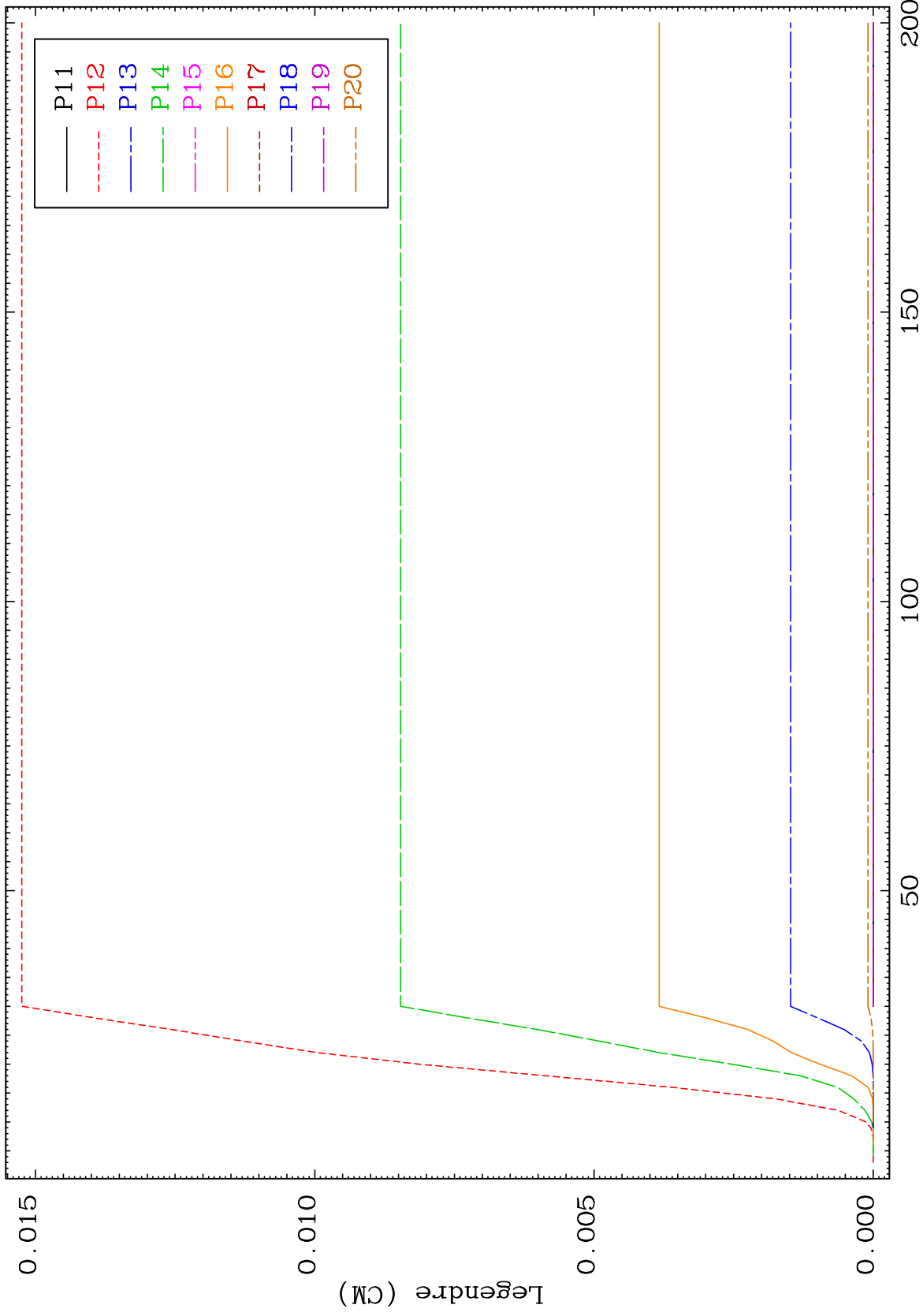




MAT 5637

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

56-Ba-134



109

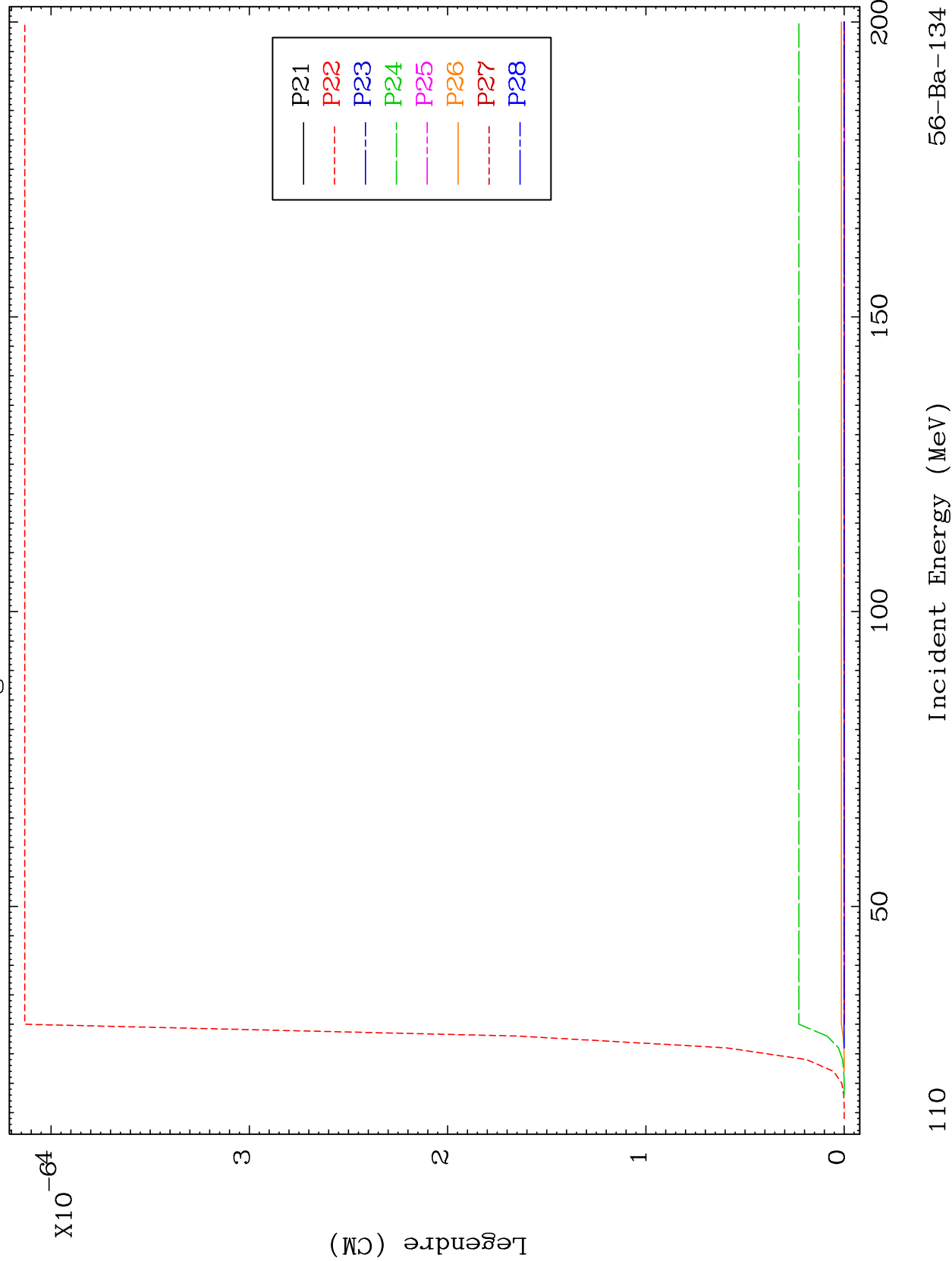
Incident Energy (MeV)

56-Ba-134

MAT 5637

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

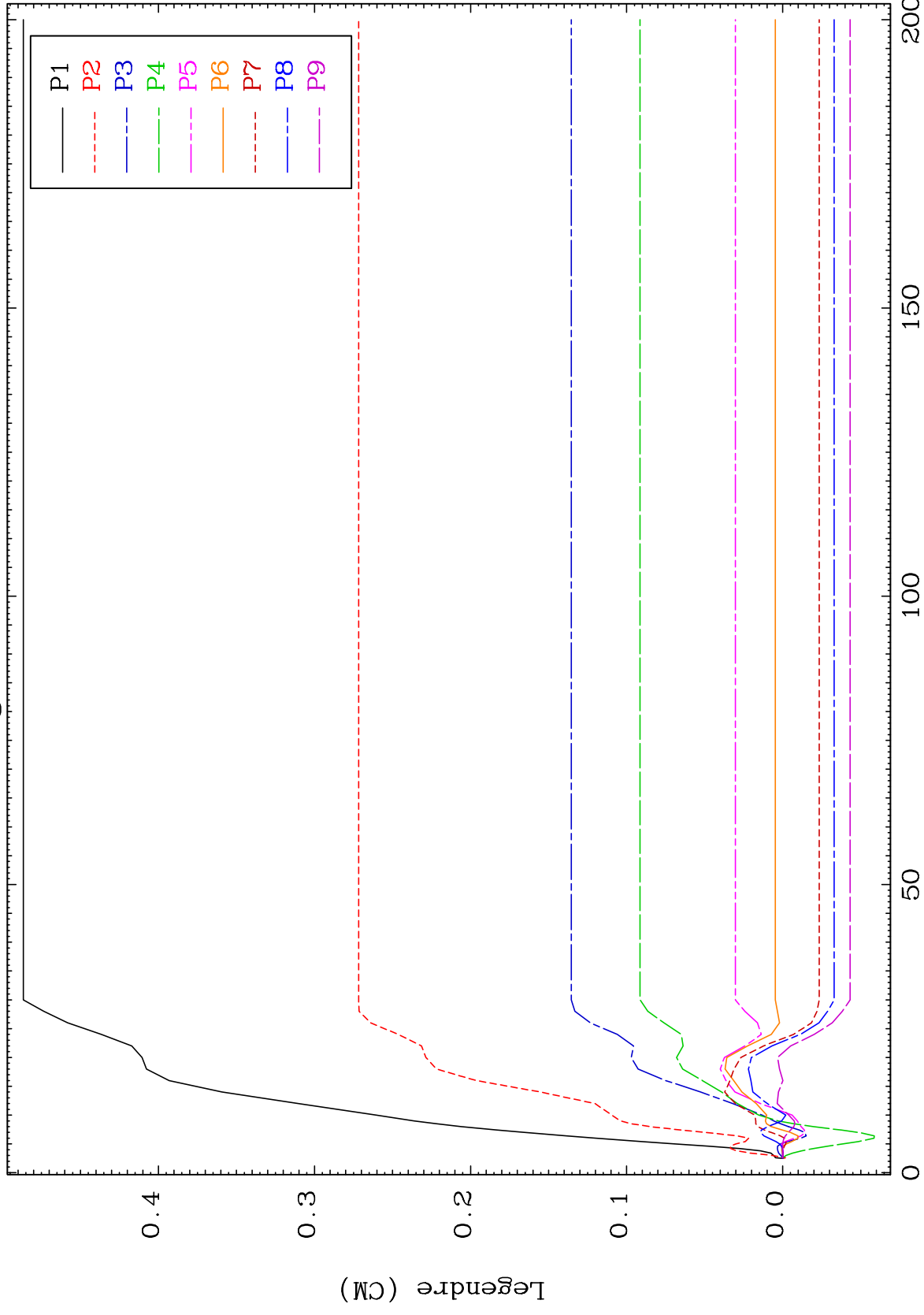
56-Ba-134



MAT 5637

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

56-Ba-134



111

Incident Energy (MeV)

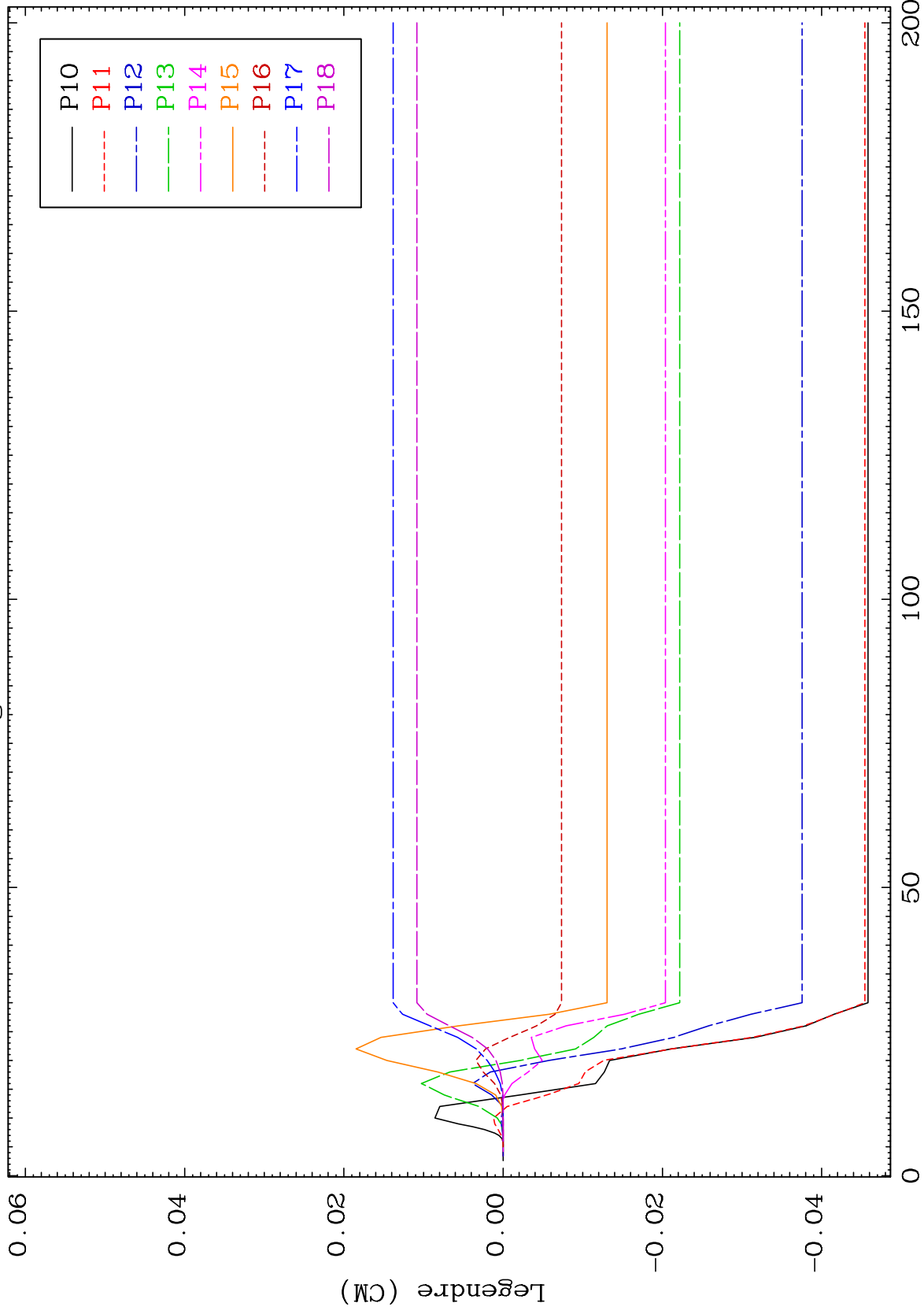
56-Ba-134



MAT 5637

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

56-Ba-134



112

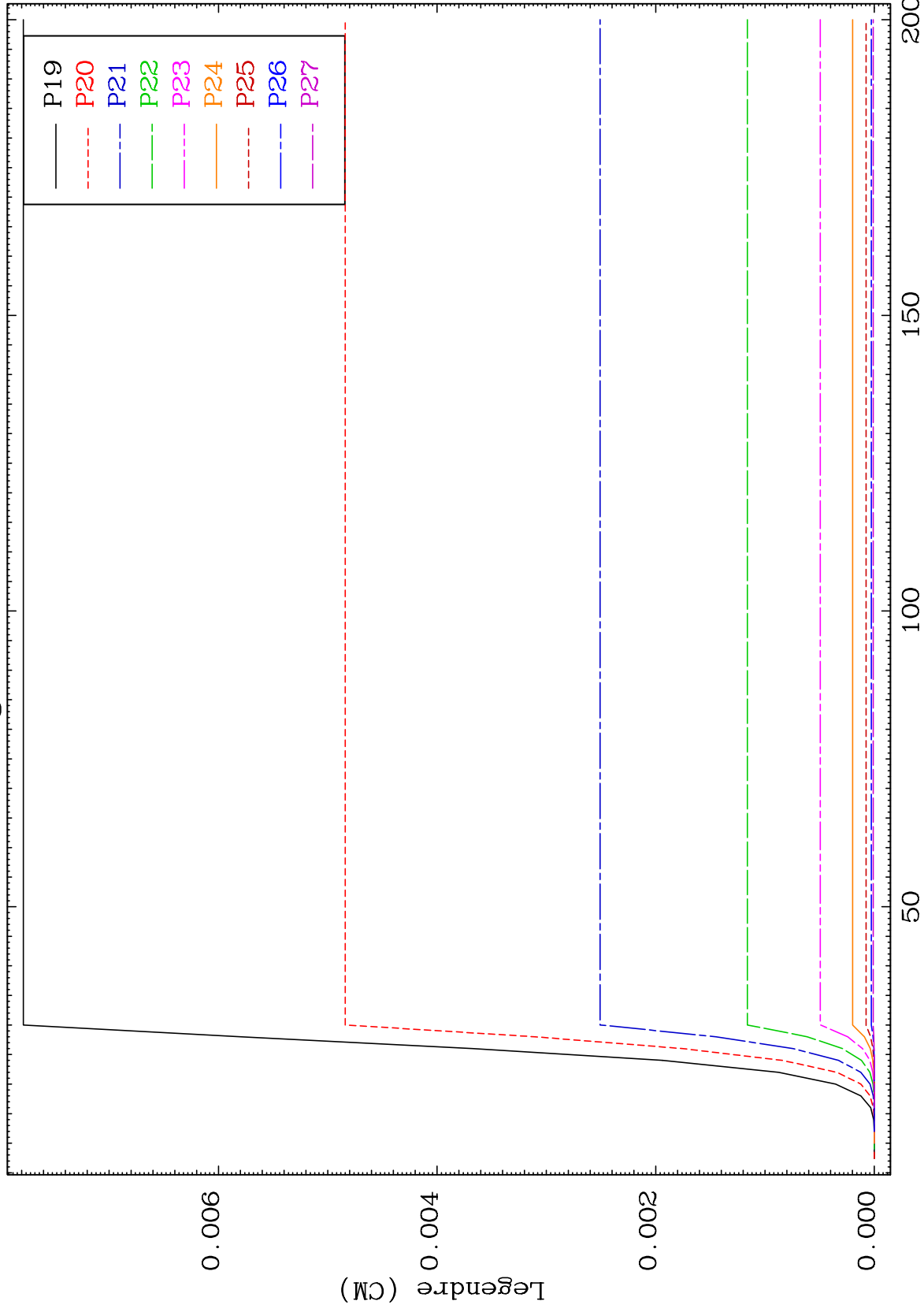
Incident Energy (MeV)

56-Ba-134

MAT 5637

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

56-Ba-134



113

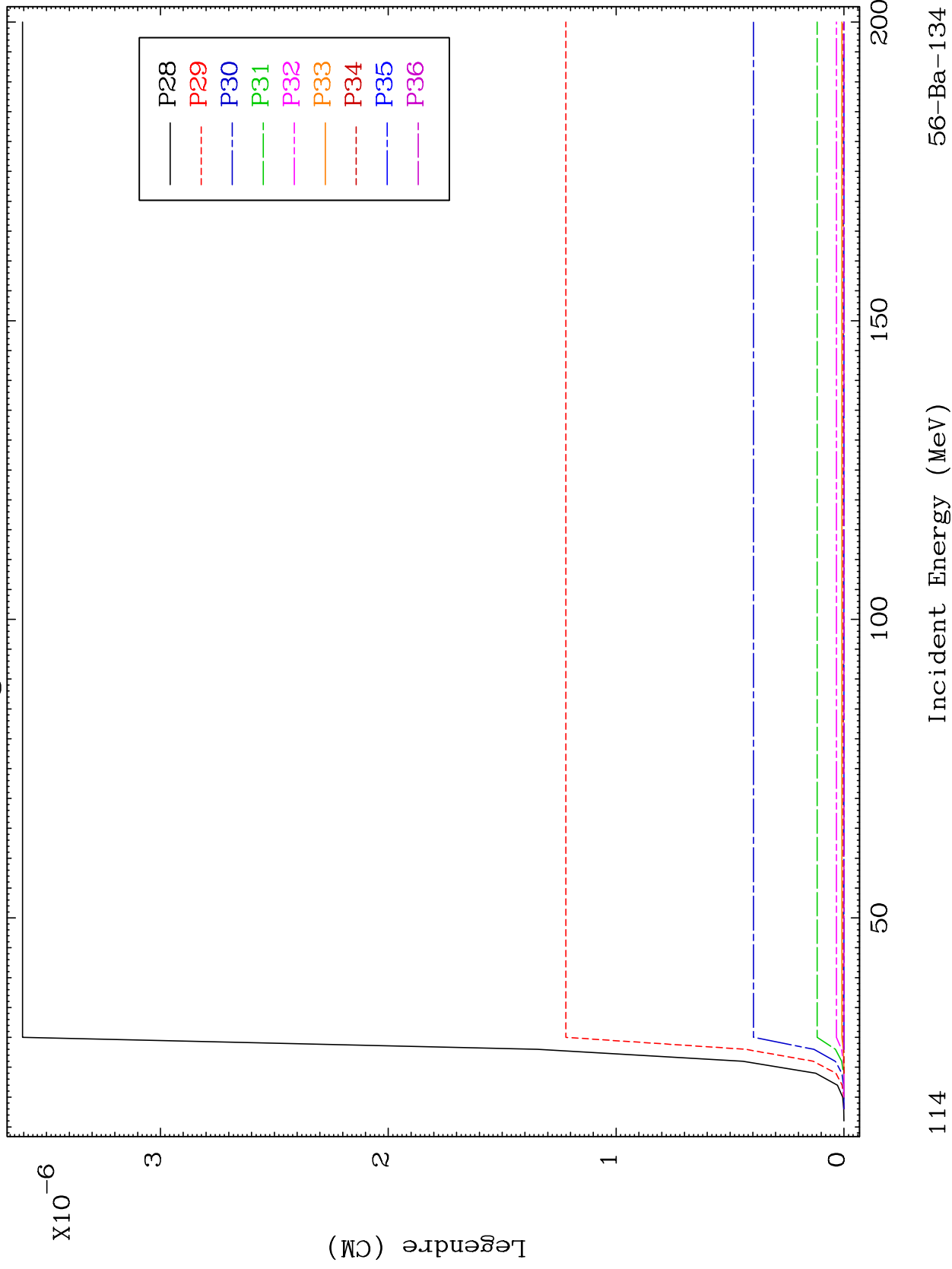
Incident Energy (MeV)

56-Ba-134

MAT 5637

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

56-Ba-134

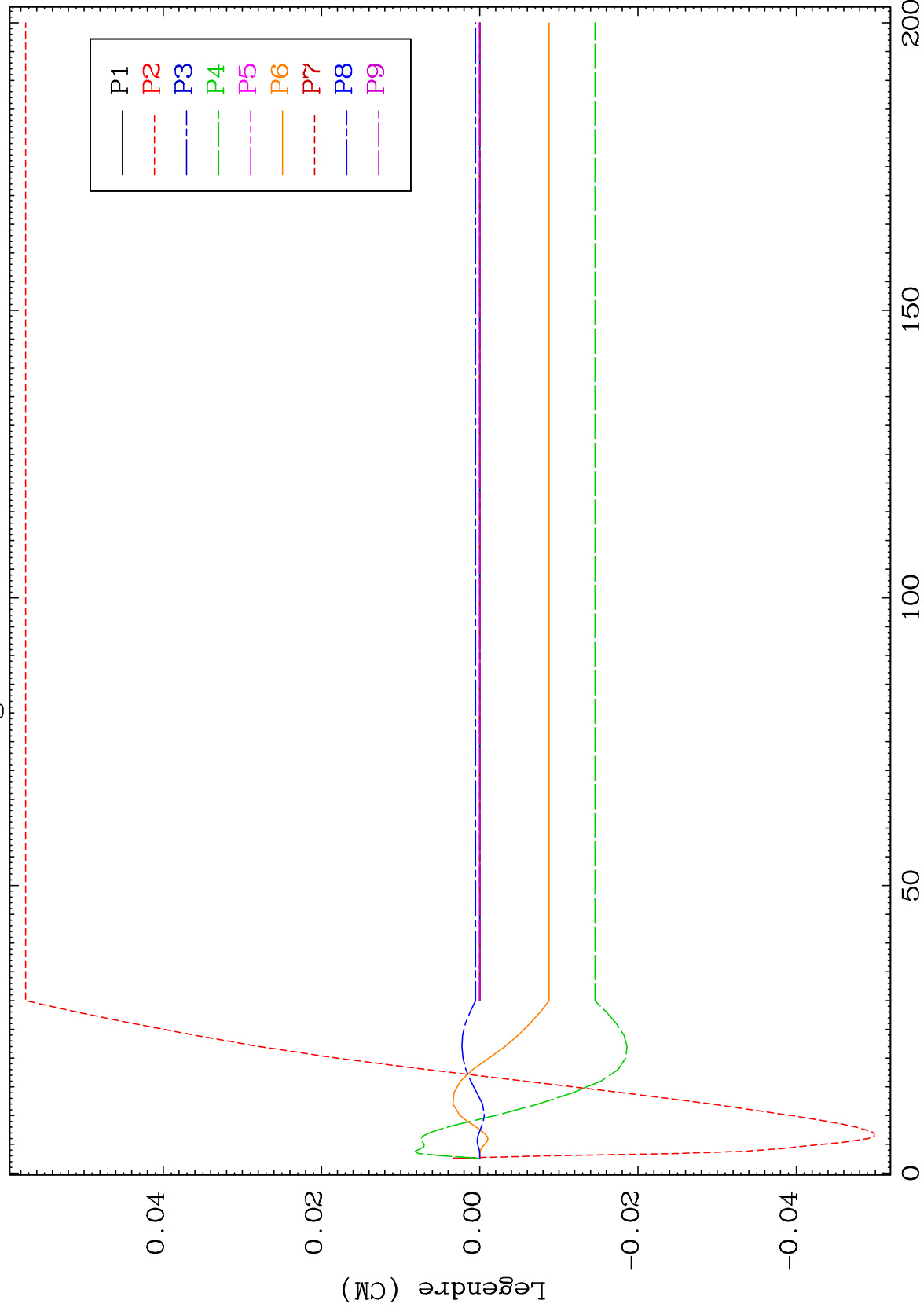


114

MAT 5637

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

56-Ba-134



56-Ba-134

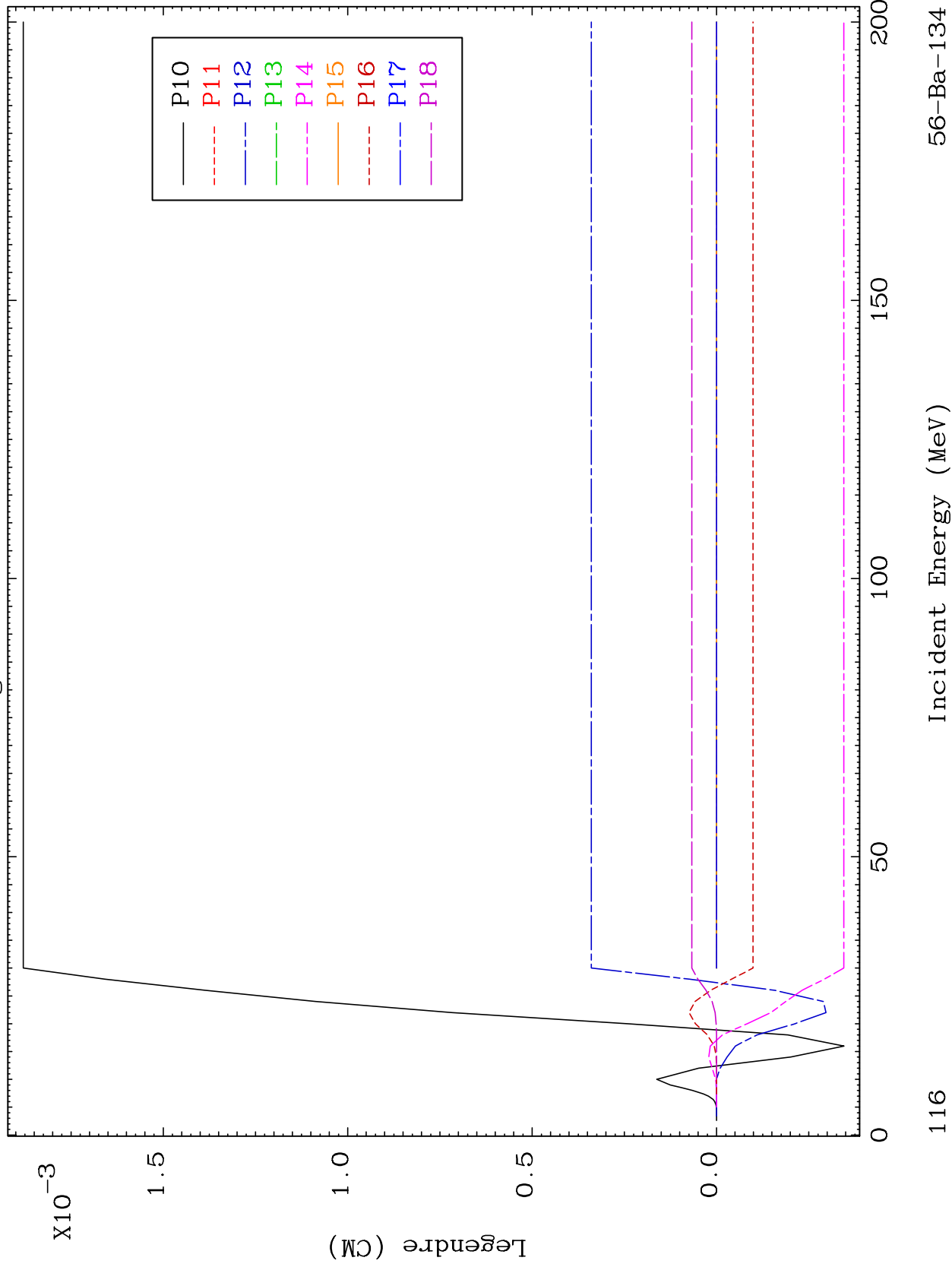
Incident Energy (MeV)

115

MAT 5637

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

56-Ba-134

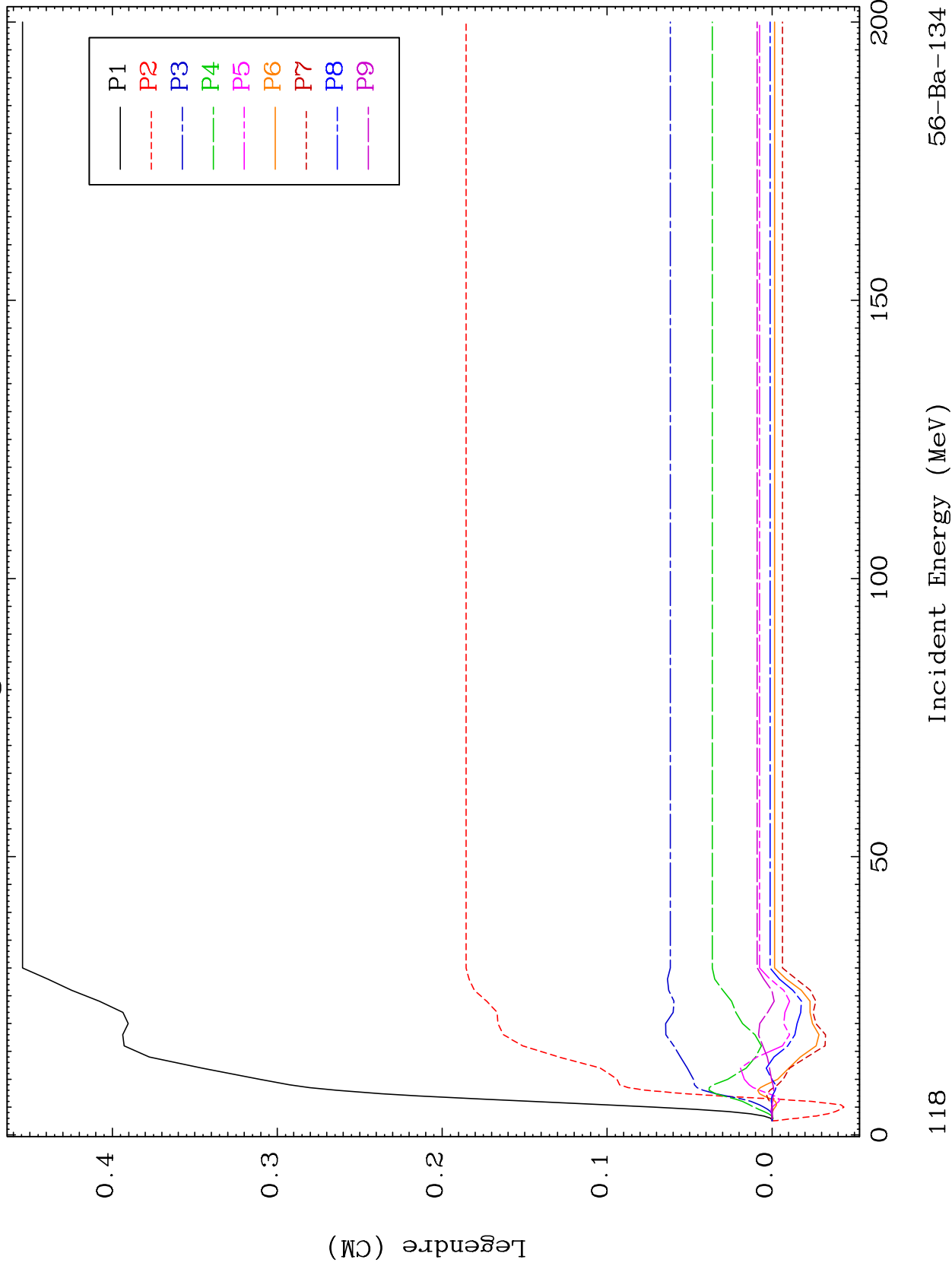




MAT 5637

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

56-Ba-134



56-Ba-134

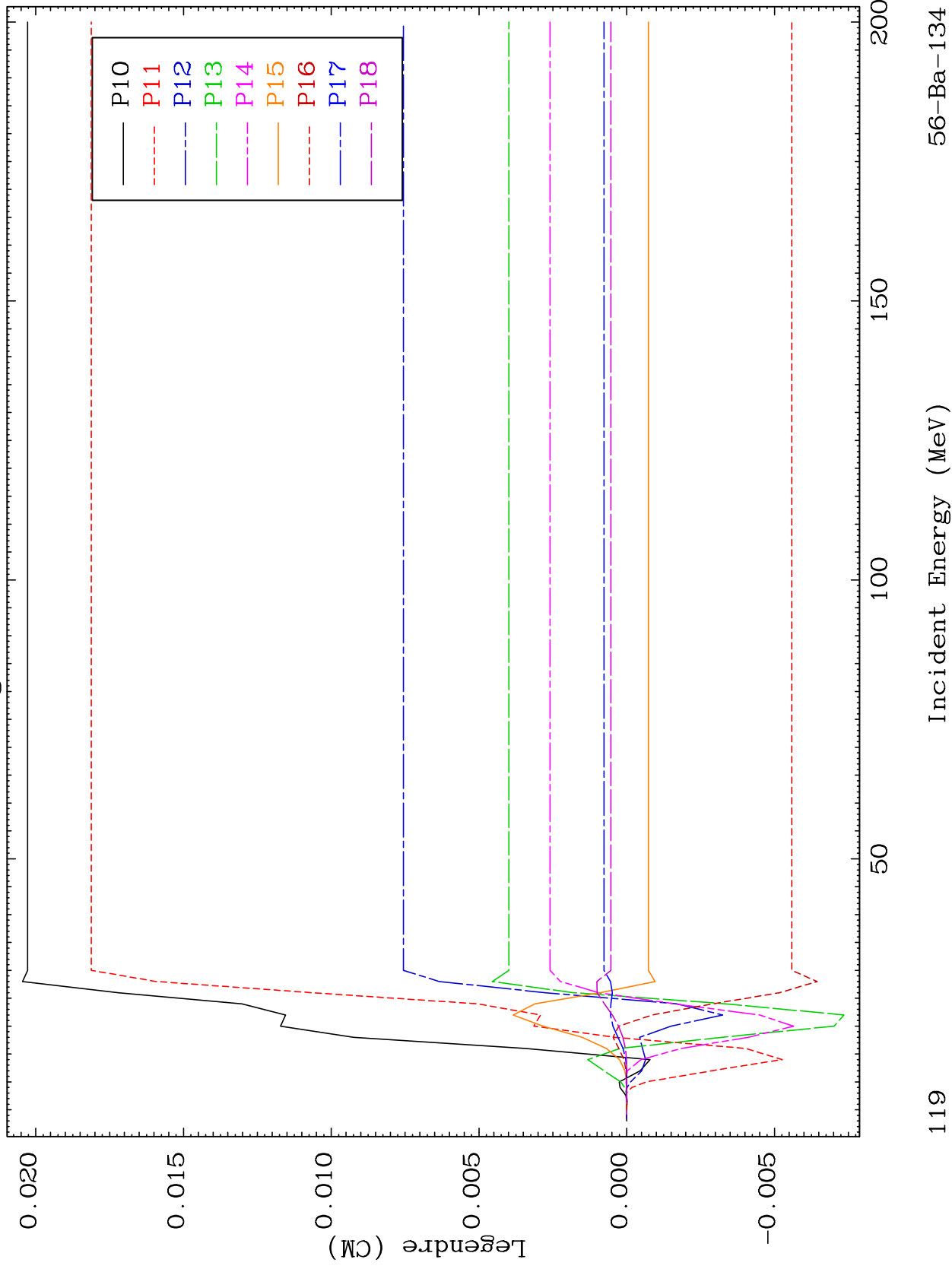
Incident Energy (MeV)

118

MAT 5637

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

56-Ba-134



119

Incident Energy (MeV)

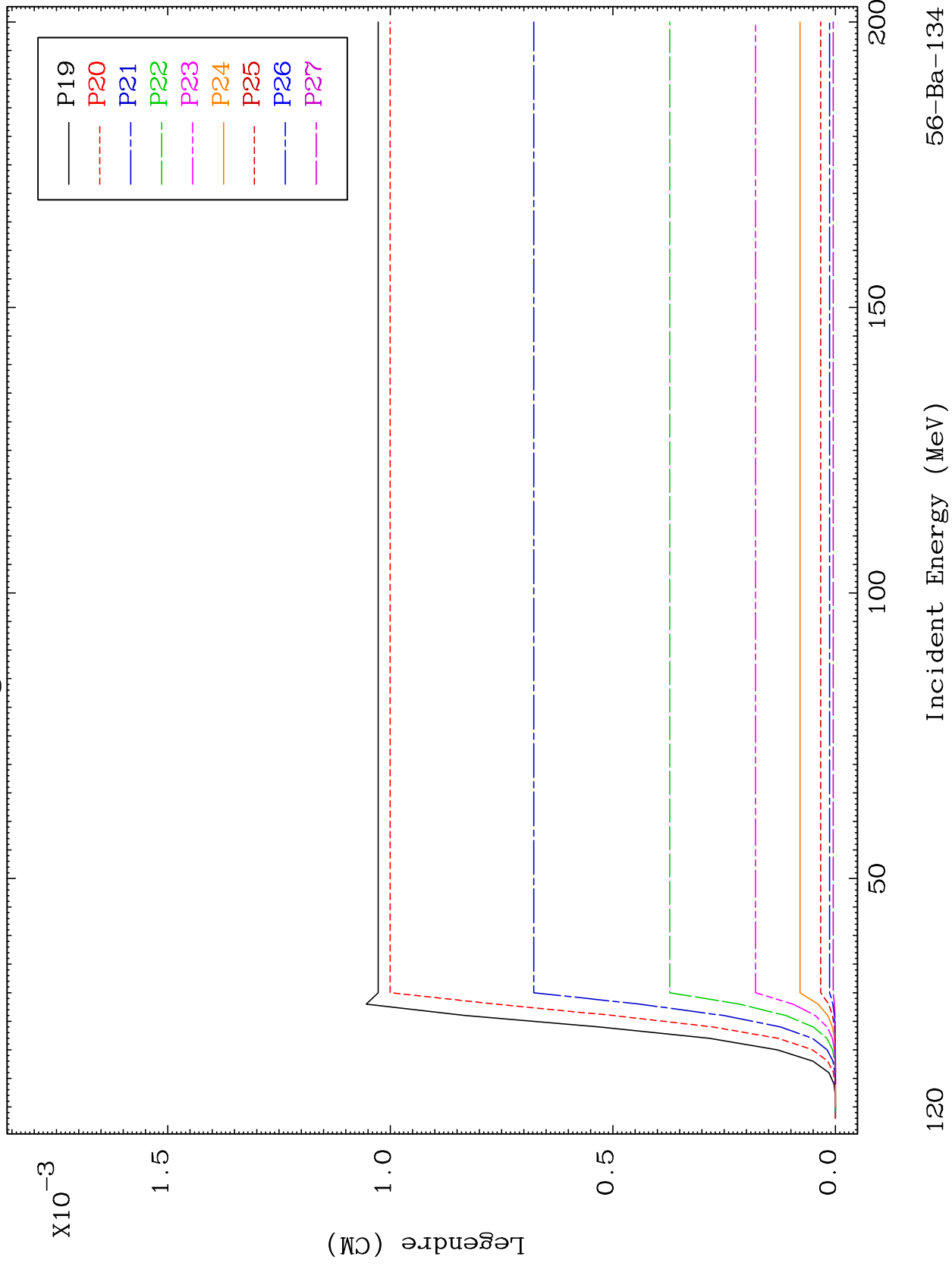
56-Ba-134



MAT 5637

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

56-Ba-134

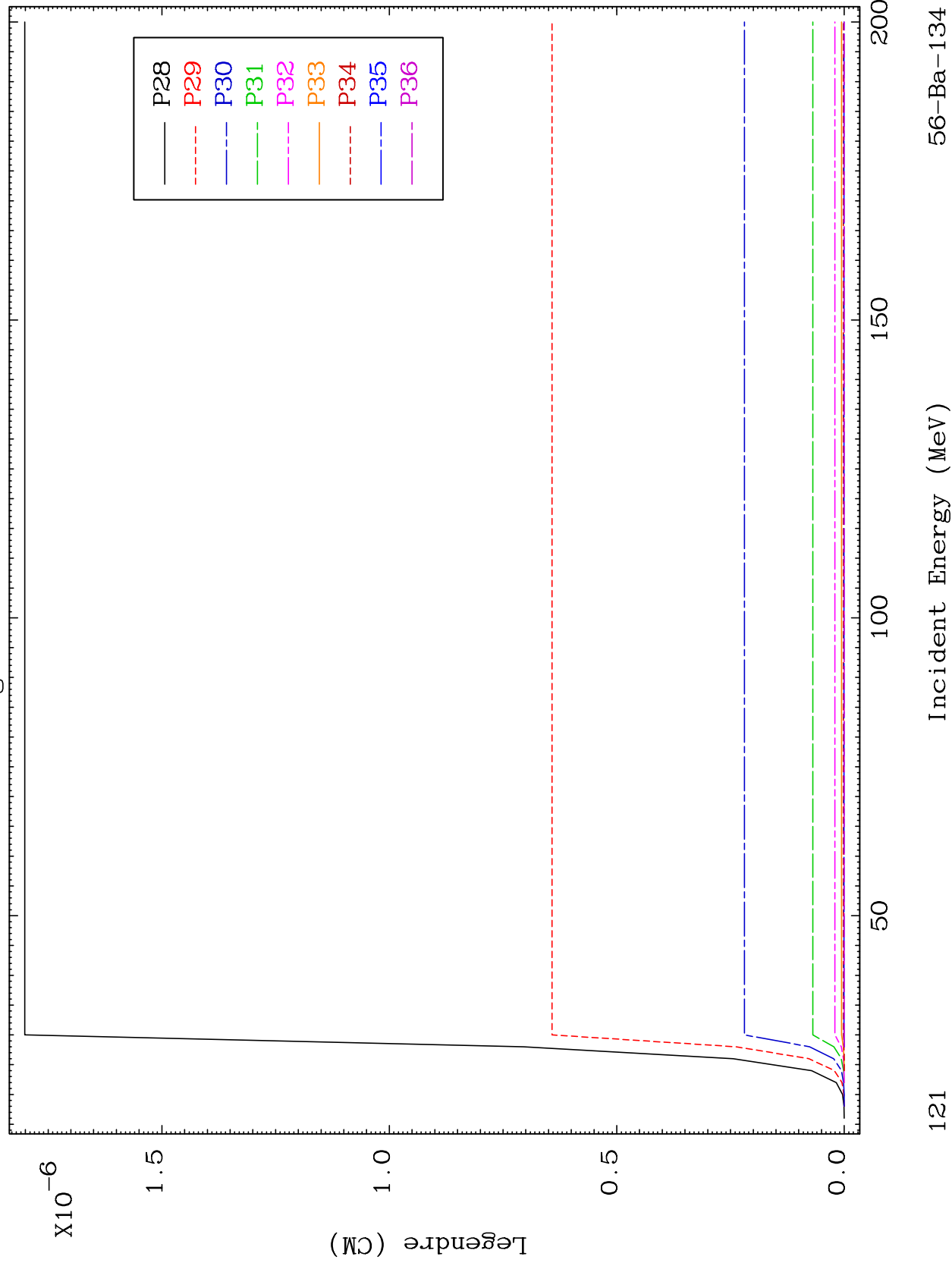


56-Ba-134

MAT 5637

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

56-Ba-134



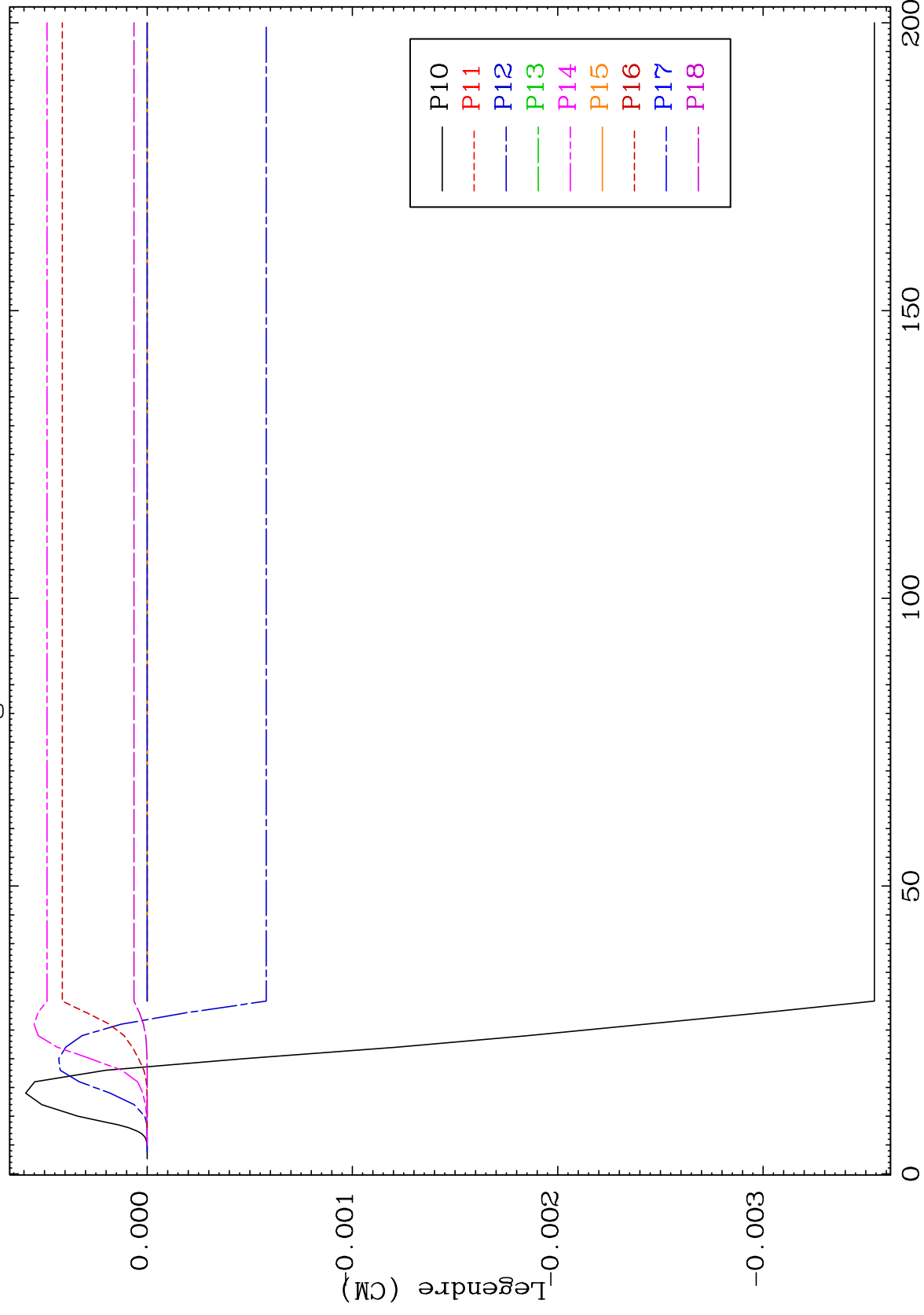
121



MAT 5637

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

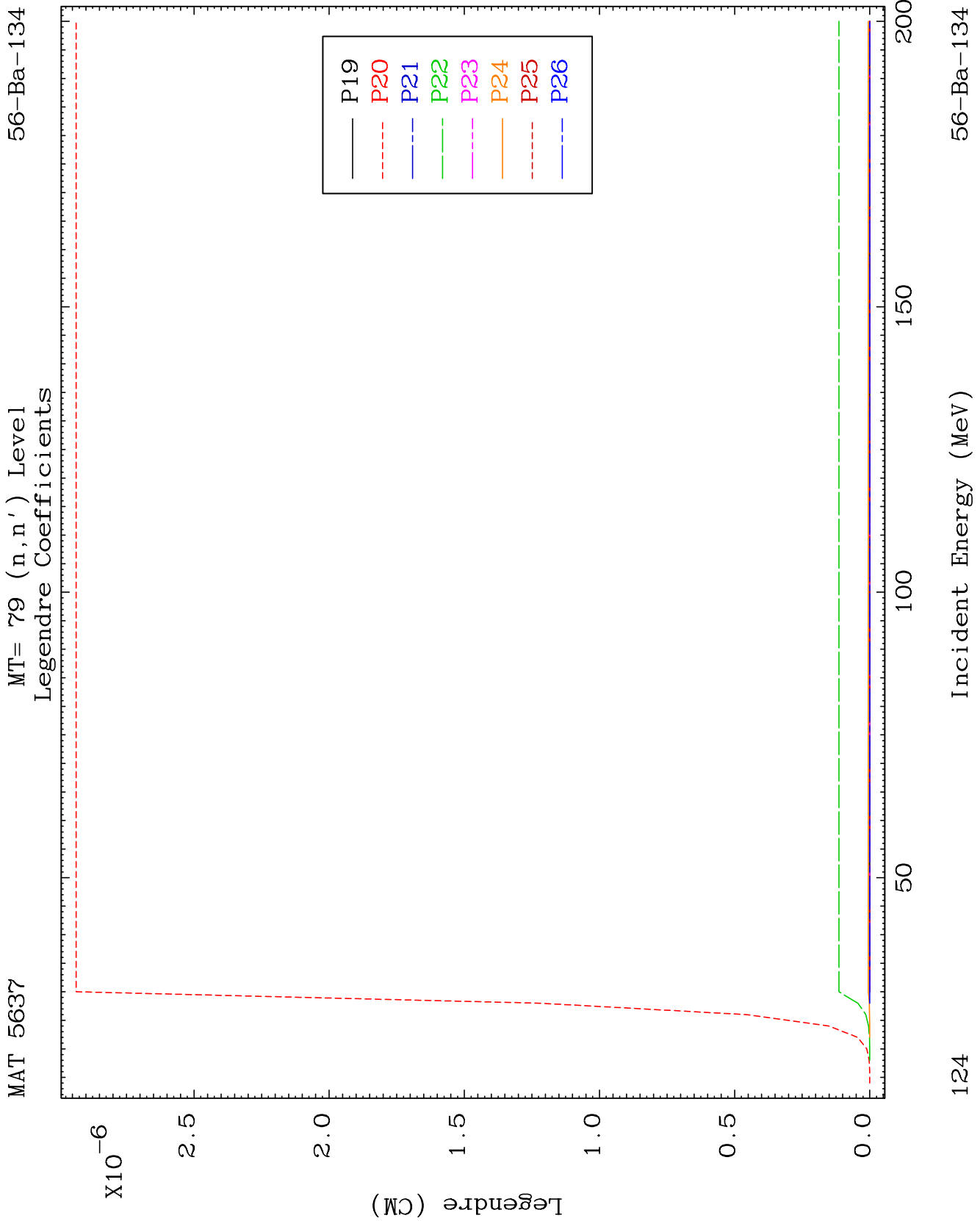
56-Ba-134



123

Incident Energy (MeV)

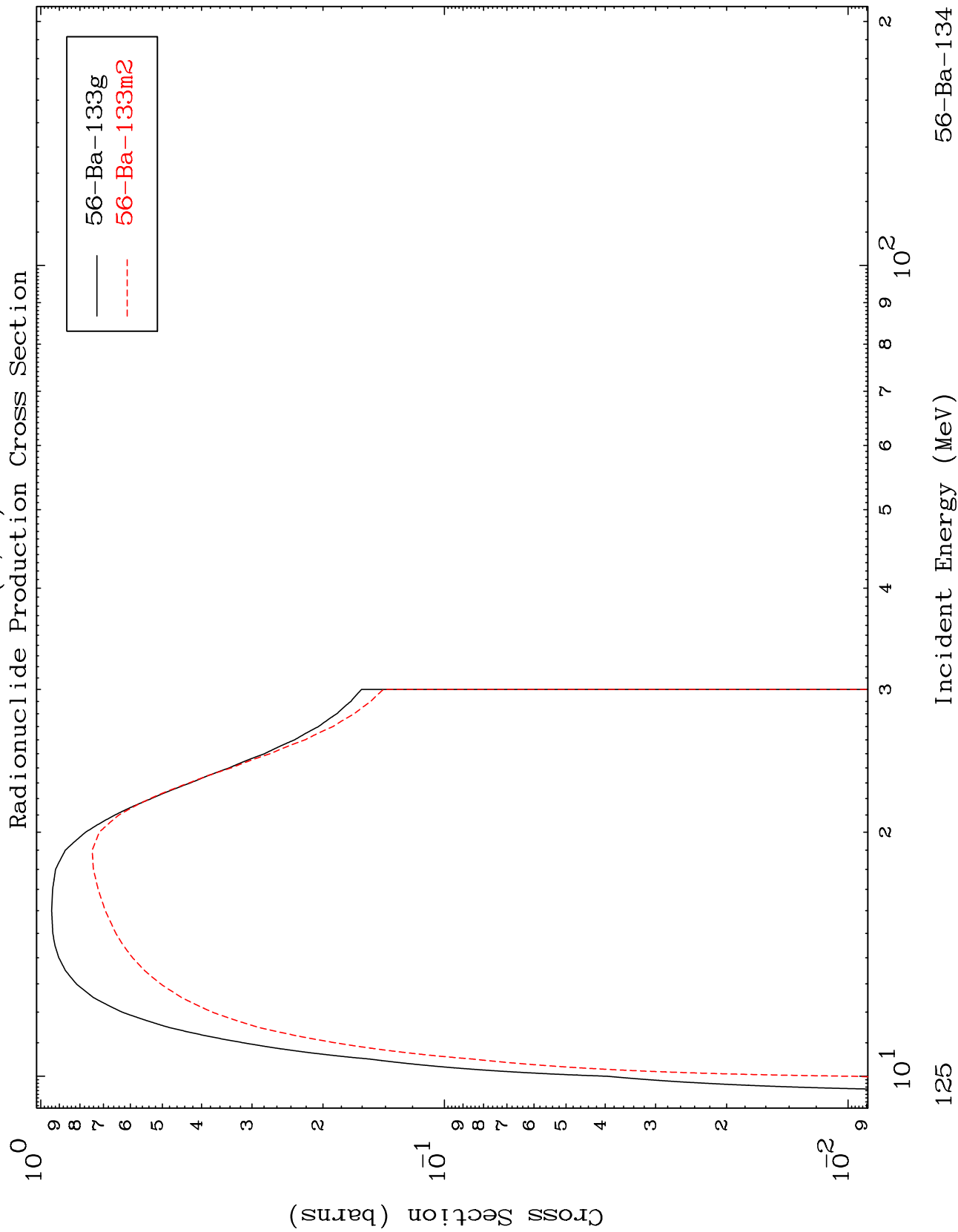
56-Ba-134



MAT 5637

56-Ba-134

(n,2n)



56-Ba-134

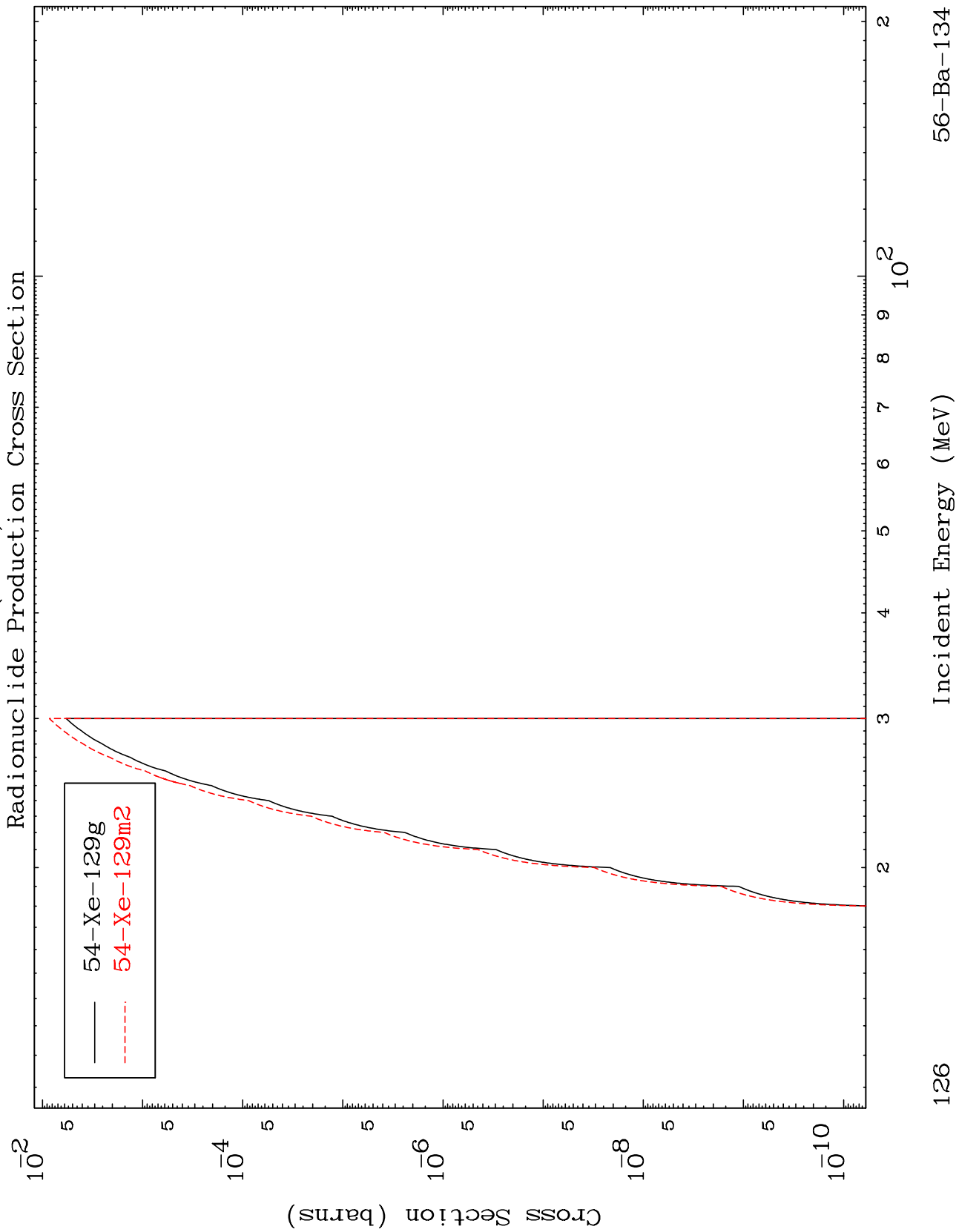
Incident Energy (MeV)

125

MAT 5637

(n,2n)  $\alpha$

56-Ba-134



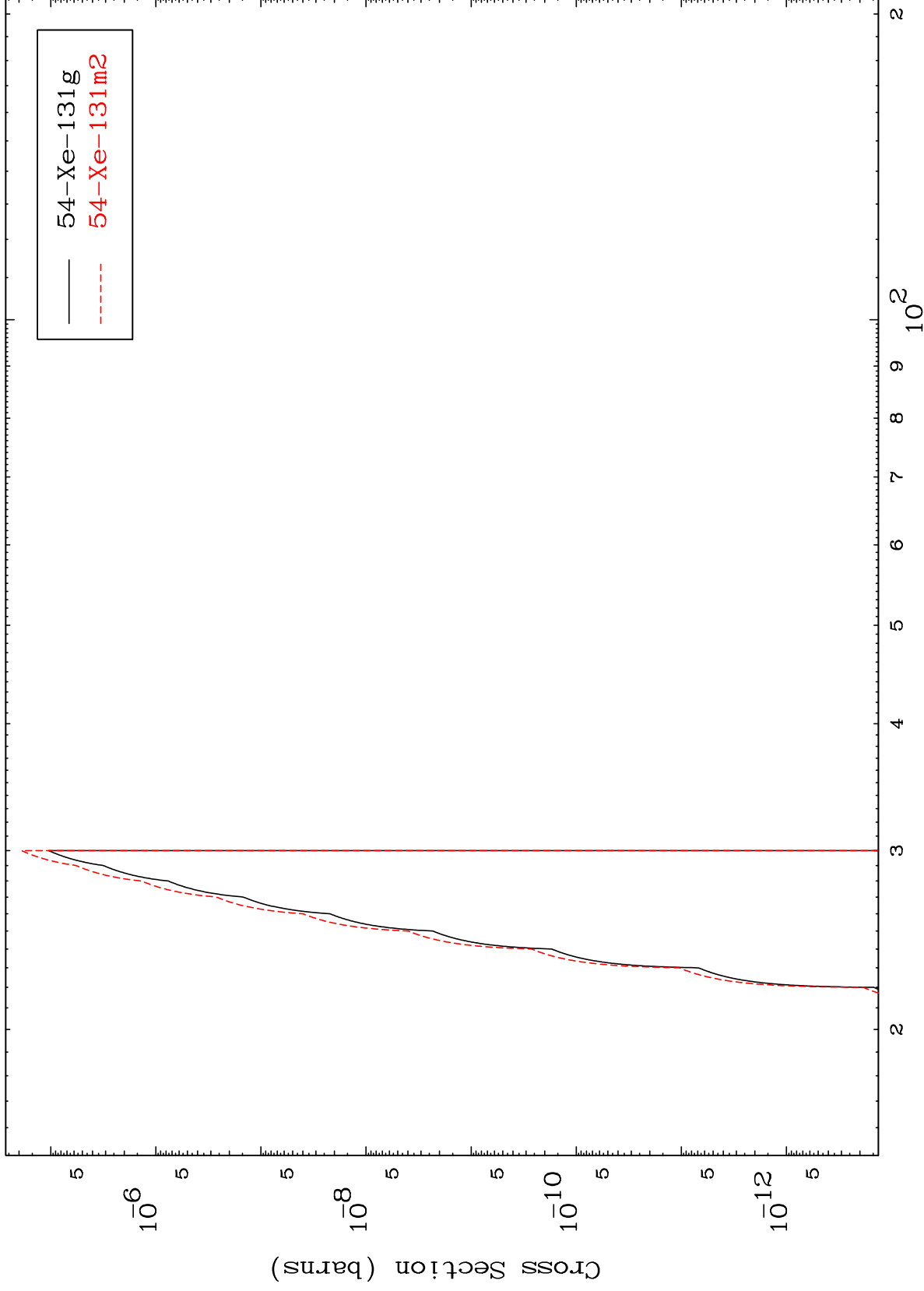
126

MAT 5637

(n,n') He-3

56-Ba-134

Radionuclide Production Cross Section



127

Incident Energy (MeV)

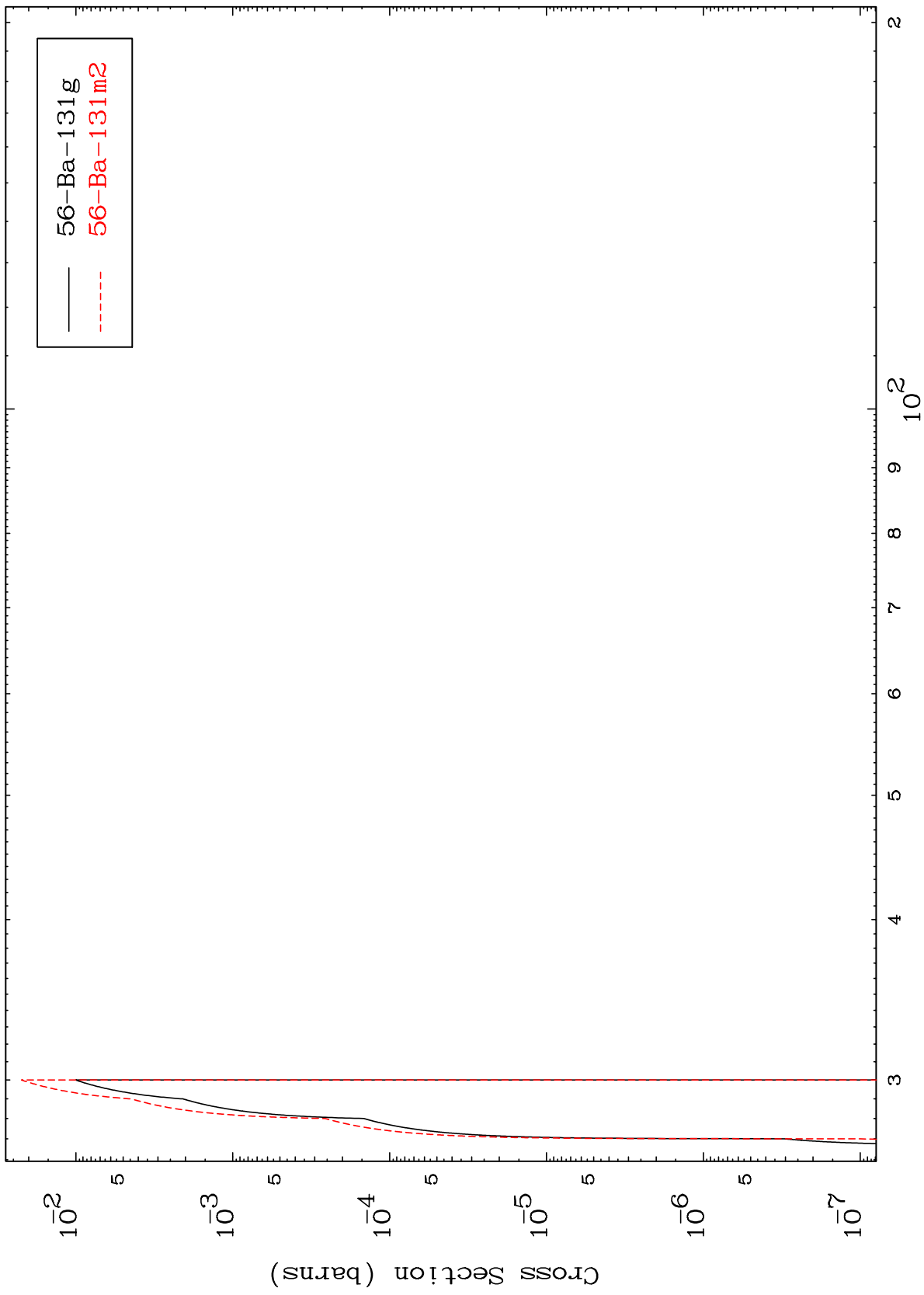
56-Ba-134



MAT 5637

56-Ba-134

(n,4n)  
Radionuclide Production Cross Section



128

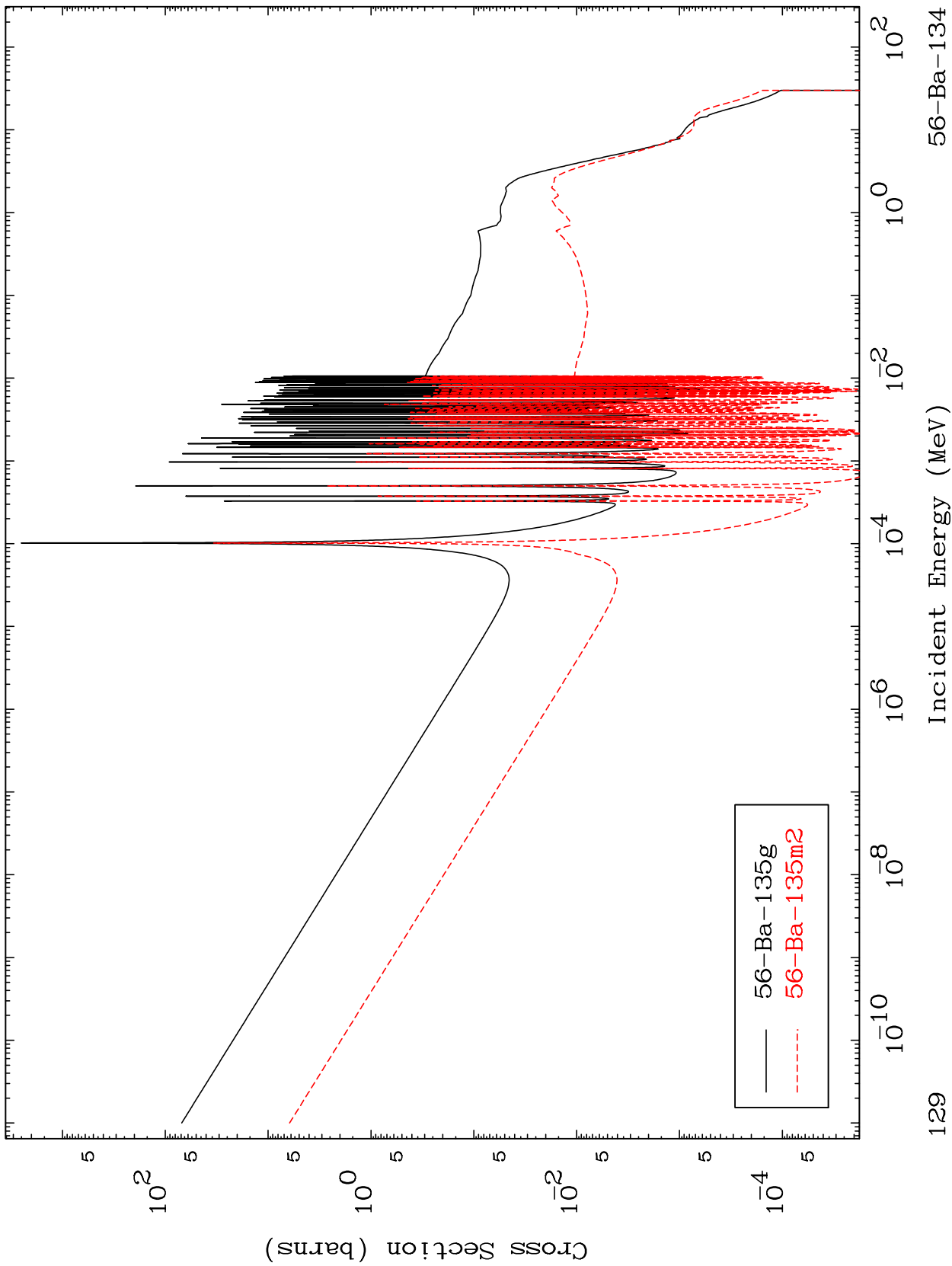
56-Ba-134

Incident Energy (MeV)

MAT 5637

56-Ba-134

$(n, \gamma)$   
Radionuclide Production Cross Section



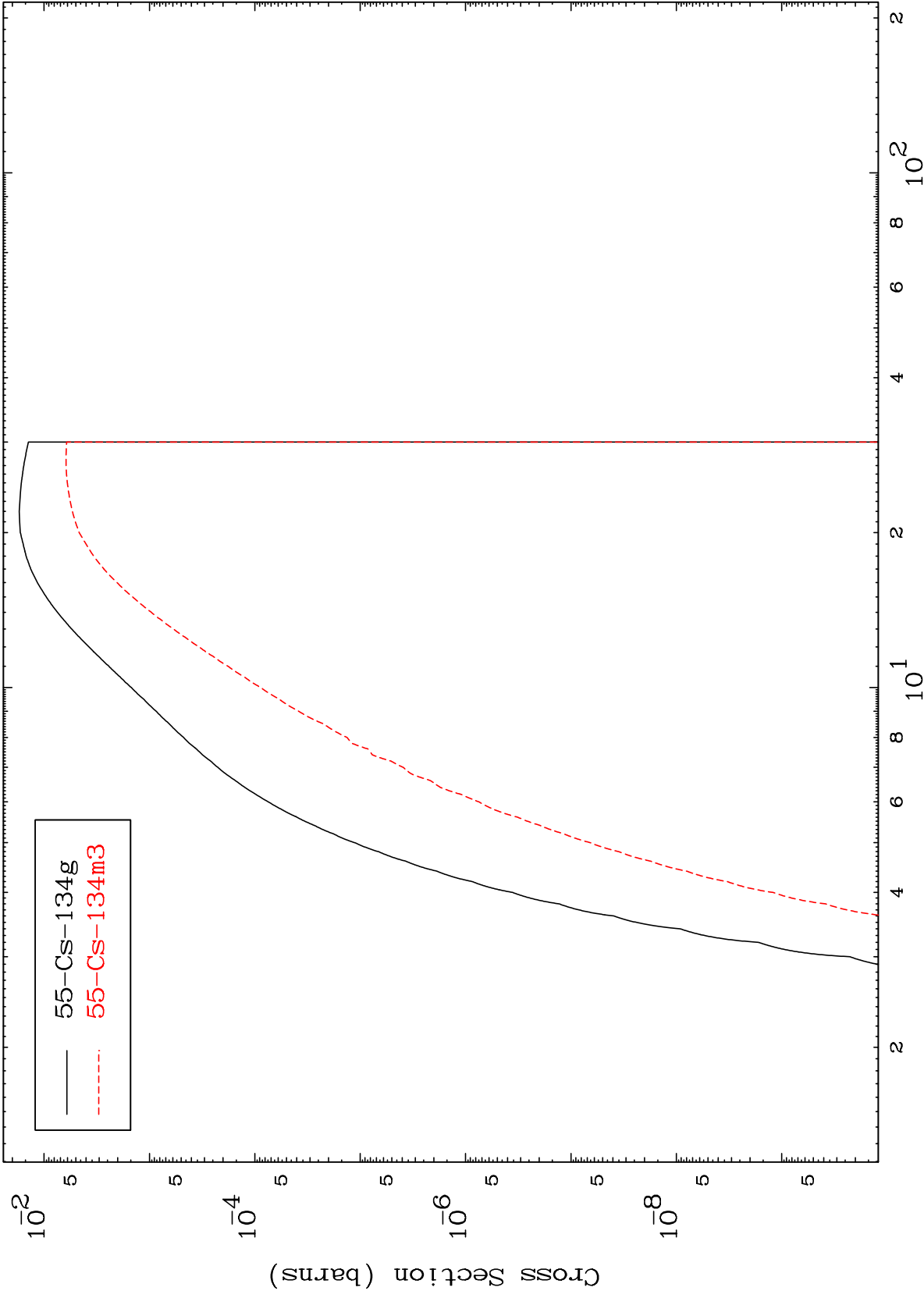
129

56-Ba-134

MAT 5637

56-Ba-134

(n,p)  
Radionuclide Production Cross Section



130

Incident Energy (MeV)

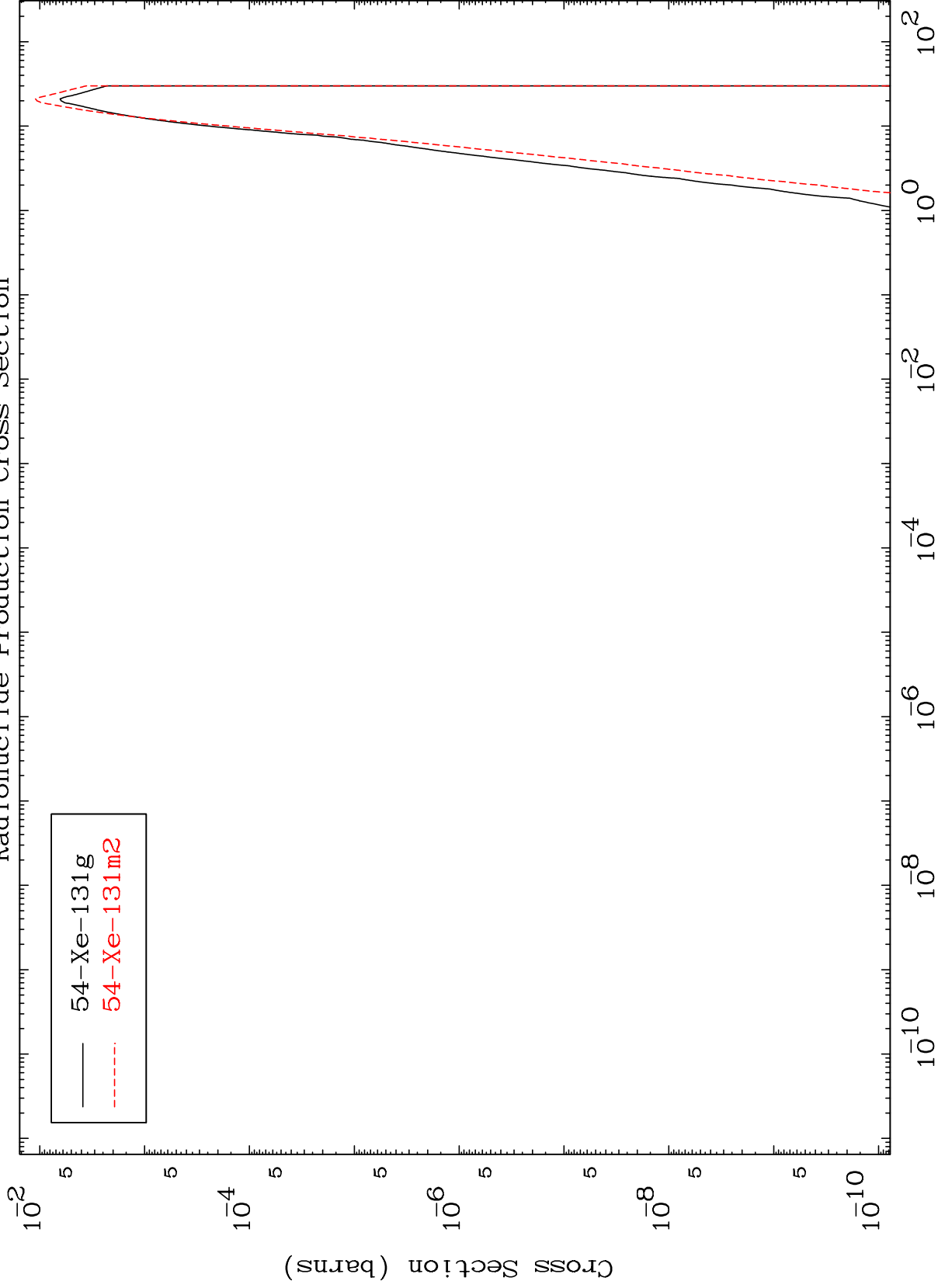
56-Ba-134

MAT 5637

(n,  $\alpha$ )

56-Ba-134

Radionuclide Production Cross Section



131

Incident Energy (MeV)

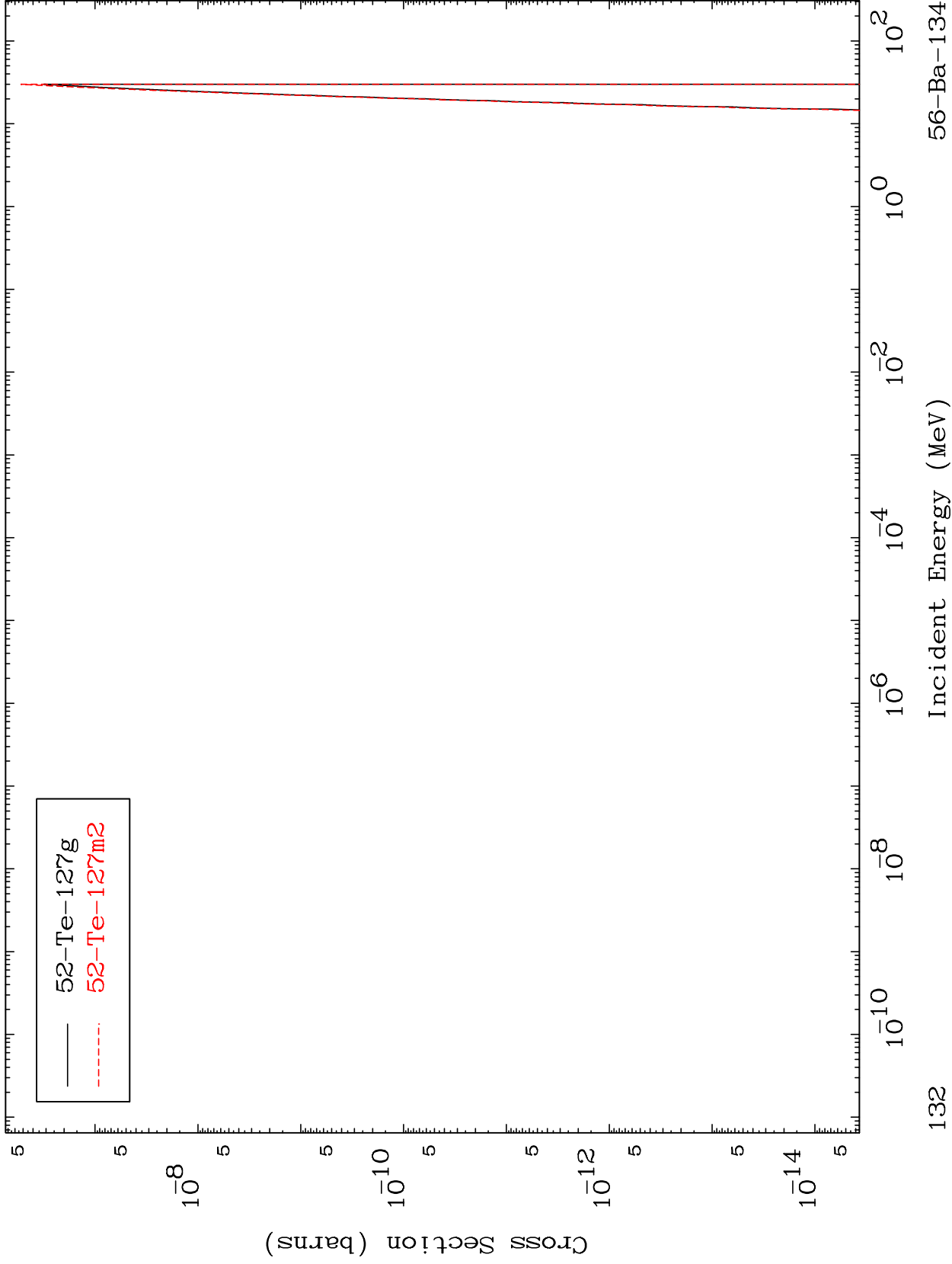
56-Ba-134

MAT 5637

(n,2α)

56-Ba-134

Radionuclide Production Cross Section



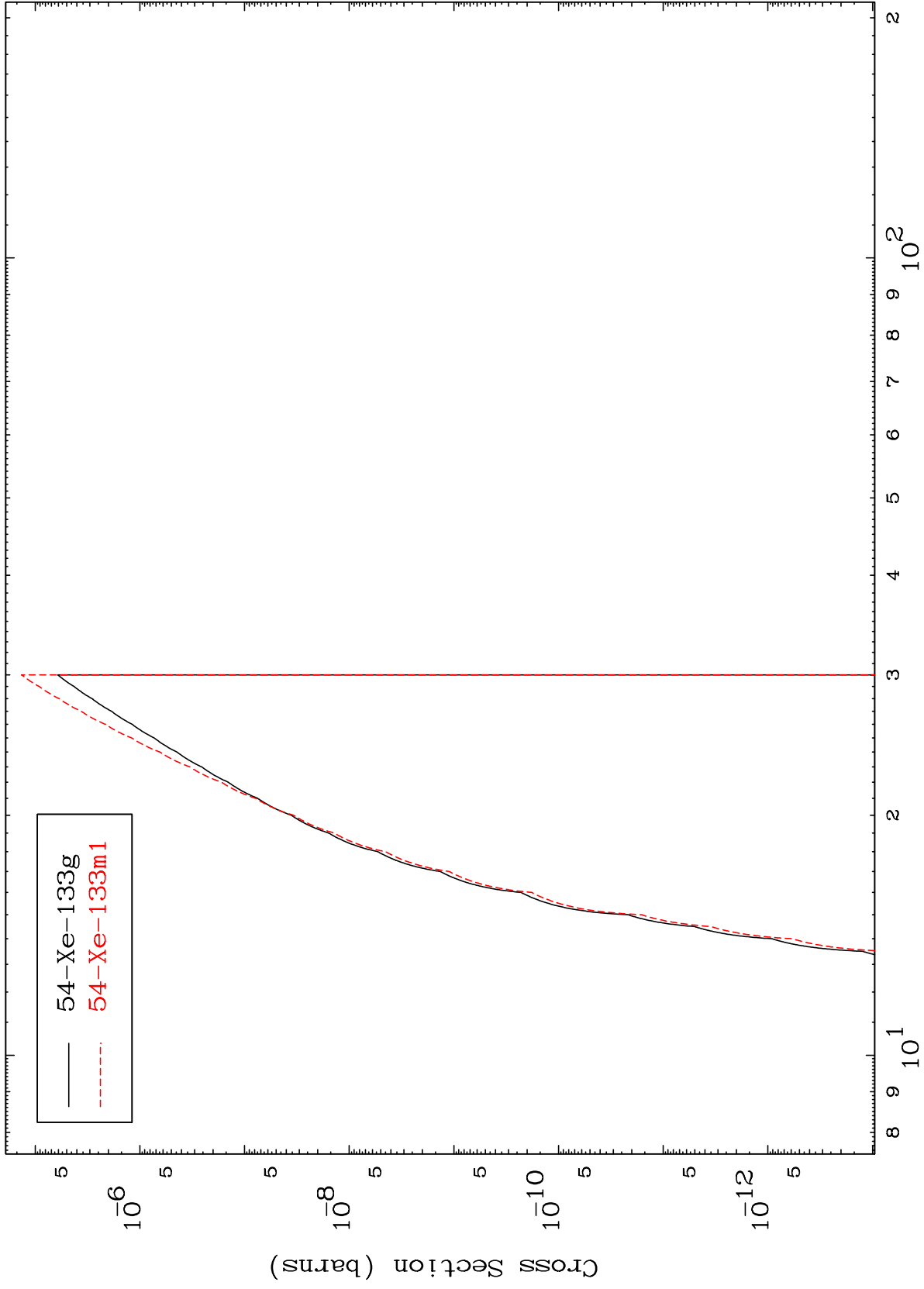
132

56-Ba-134

MAT 5637

56-Ba-134

(n,2p)  
Radionuclide Production Cross Section



54-Xe-133g  
54-Xe-133m1

56-Ba-134

Incident Energy (MeV)

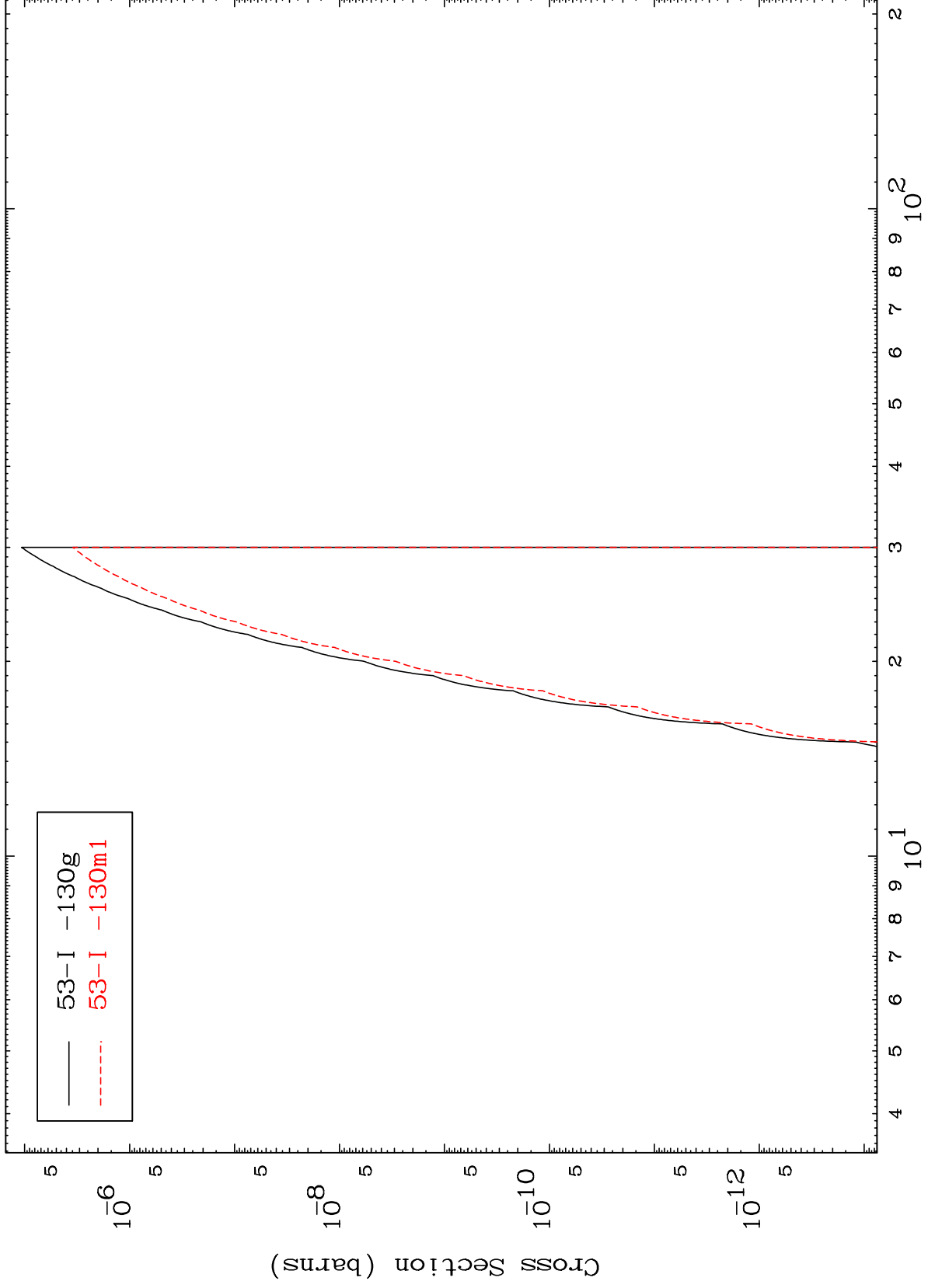
133

MAT 5637

(n,p)  $\alpha$

56-Ba-134

Radionuclide Production Cross Section



134

Incident Energy (MeV)

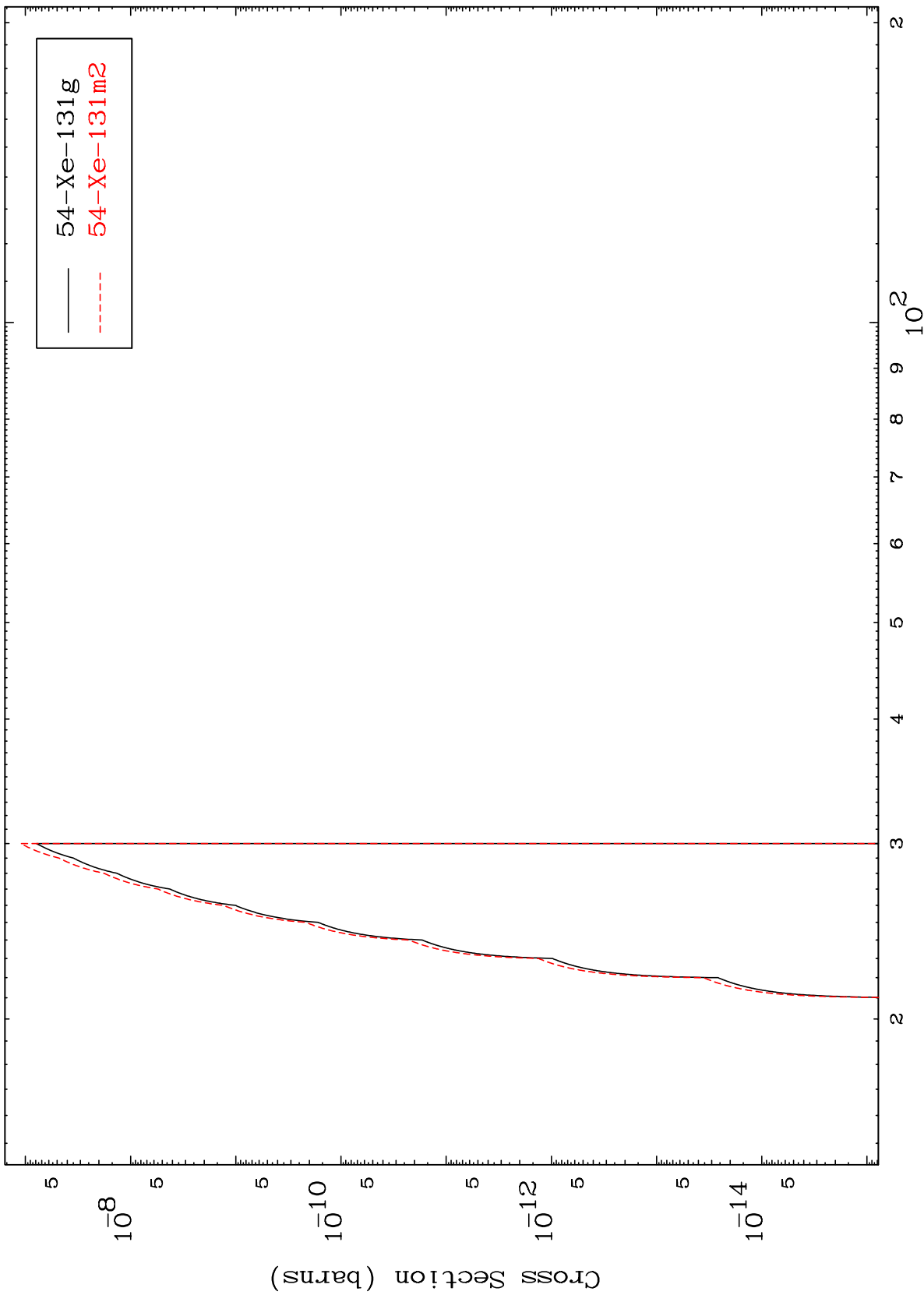
56-Ba-134

MAT 5637

(n,p) t

56-Ba-134

Radionuclide Production Cross Section



135

Incident Energy (MeV)

56-Ba-134