

Program EVALPLOT  
(Version 2021-1)

by

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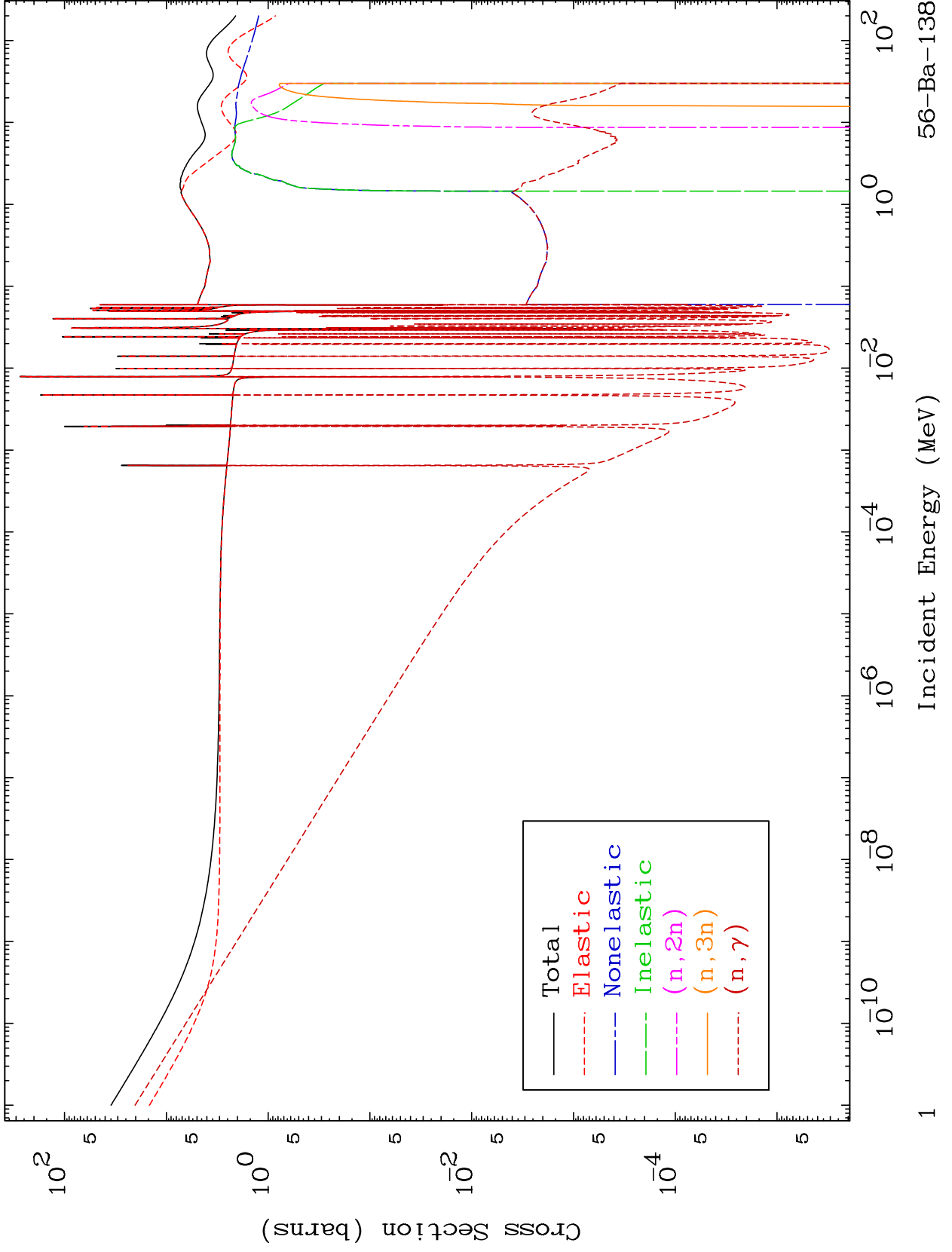
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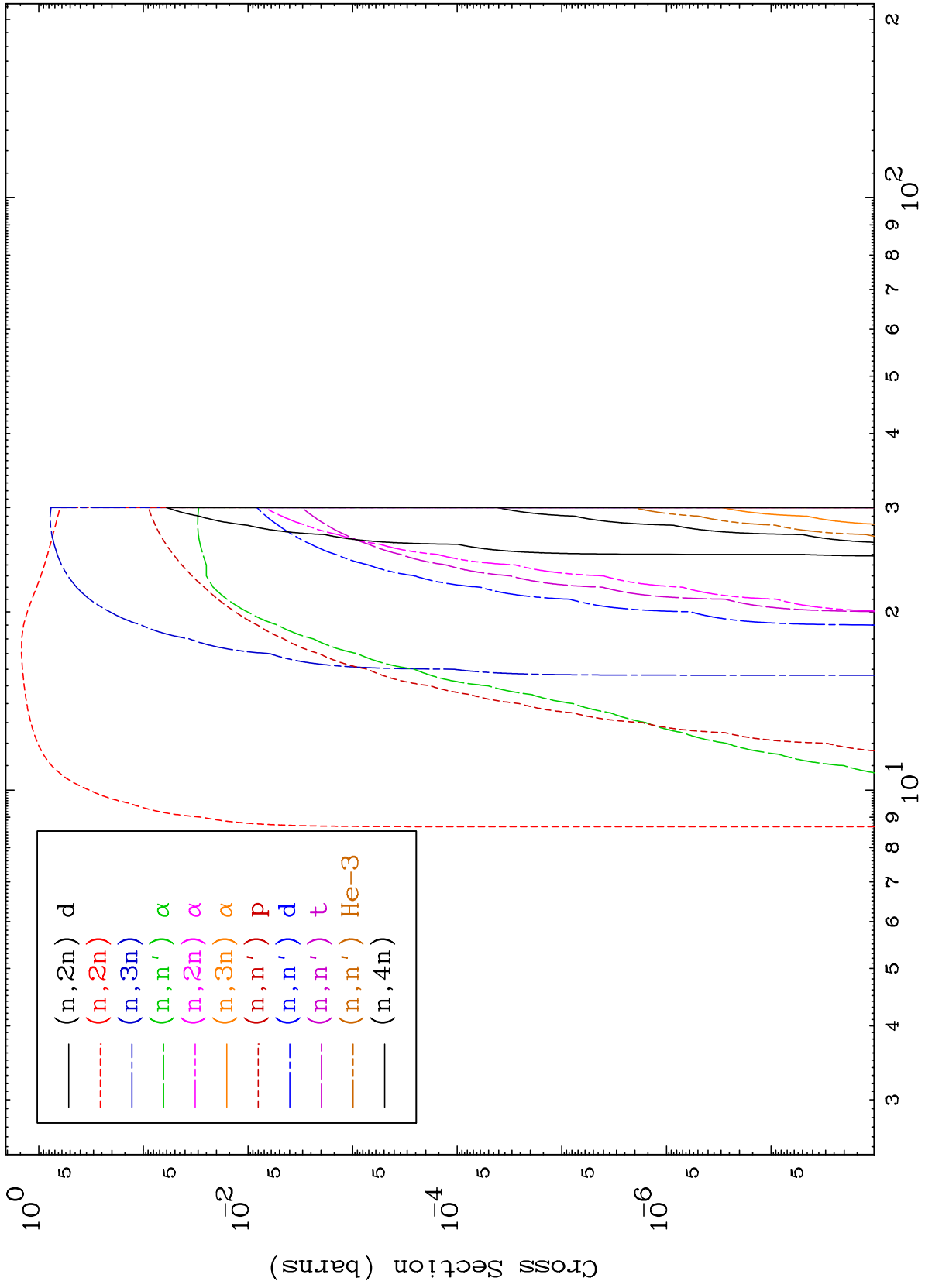
Press Mouse Button to Start

MAT 5649

Neutron Major  
293 Kelvin Cross Sections

56-Ba-138

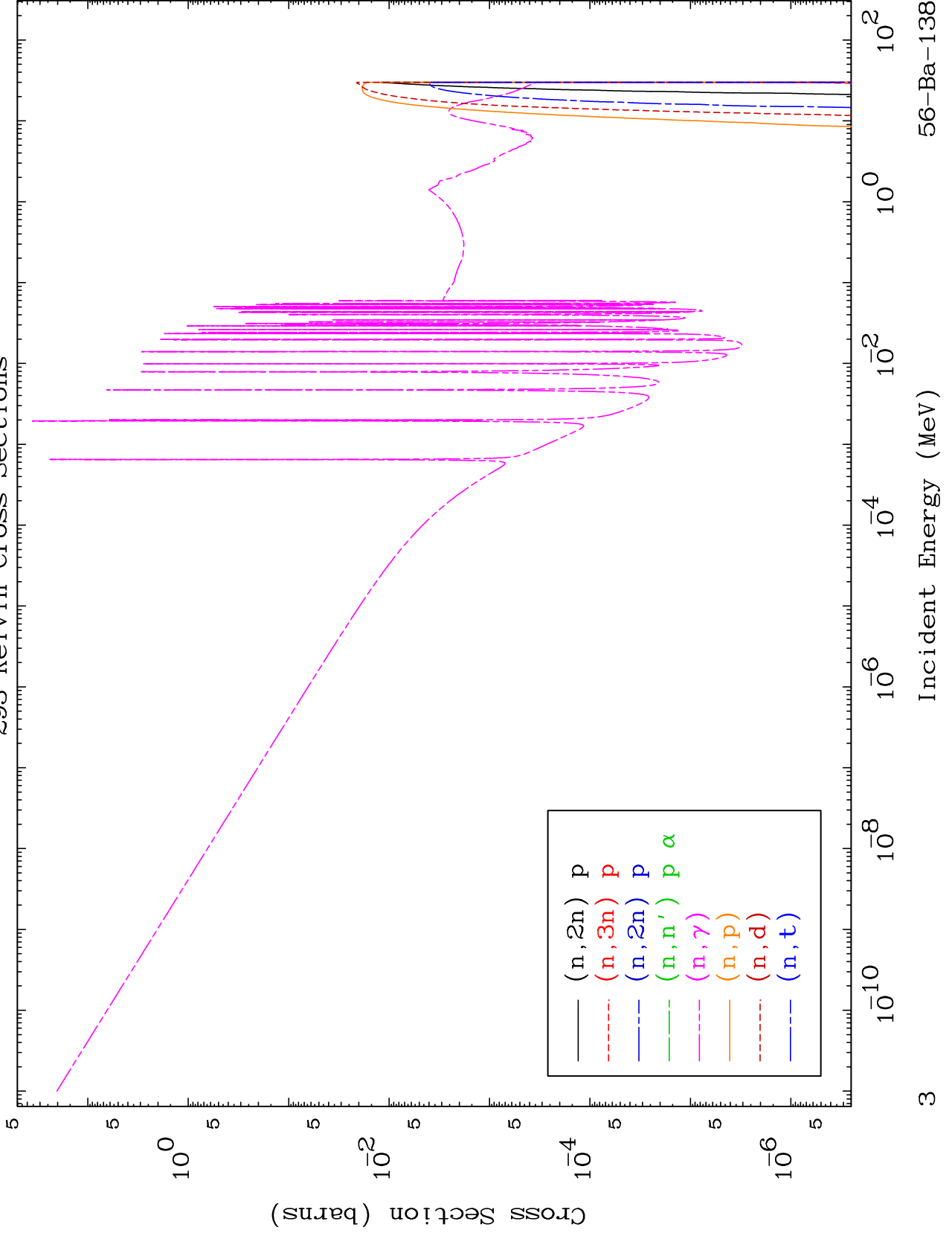




MAT 5649

Neutron Absorption  
293 Kelvin Cross Sections

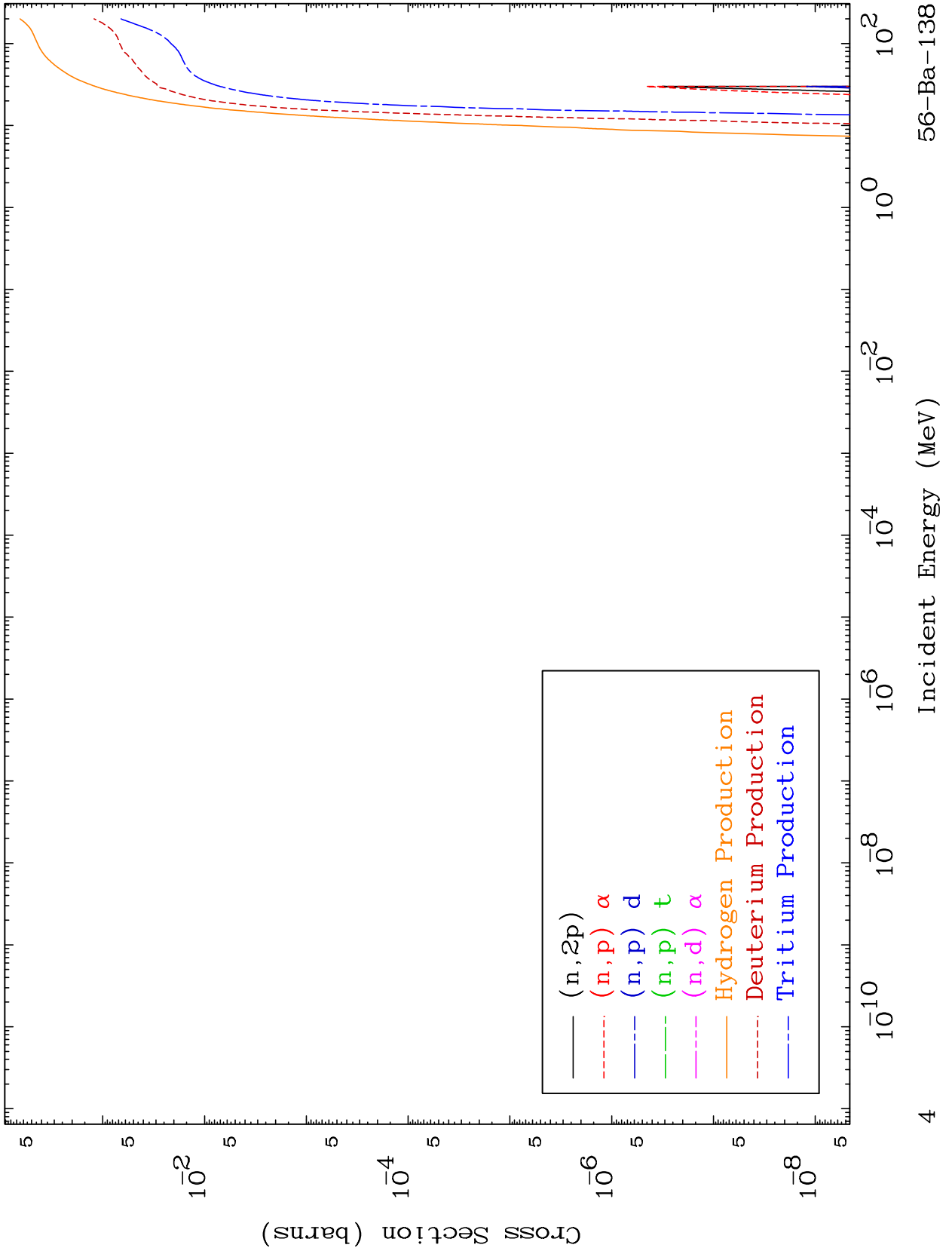
56-Ba-138

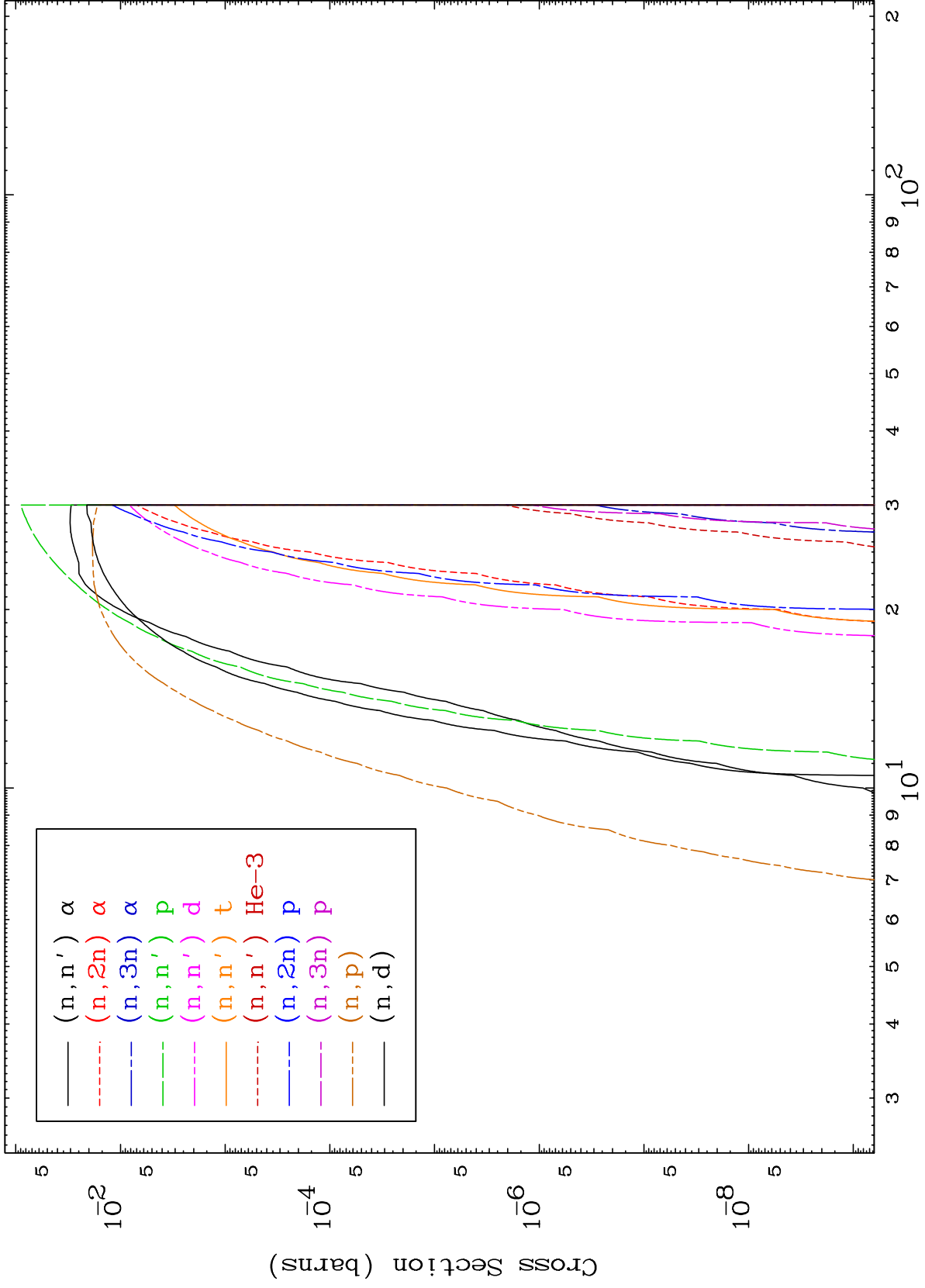


MAT 5649

Neutron Absorption  
293 Kelvin Cross Sections

56-Ba-138

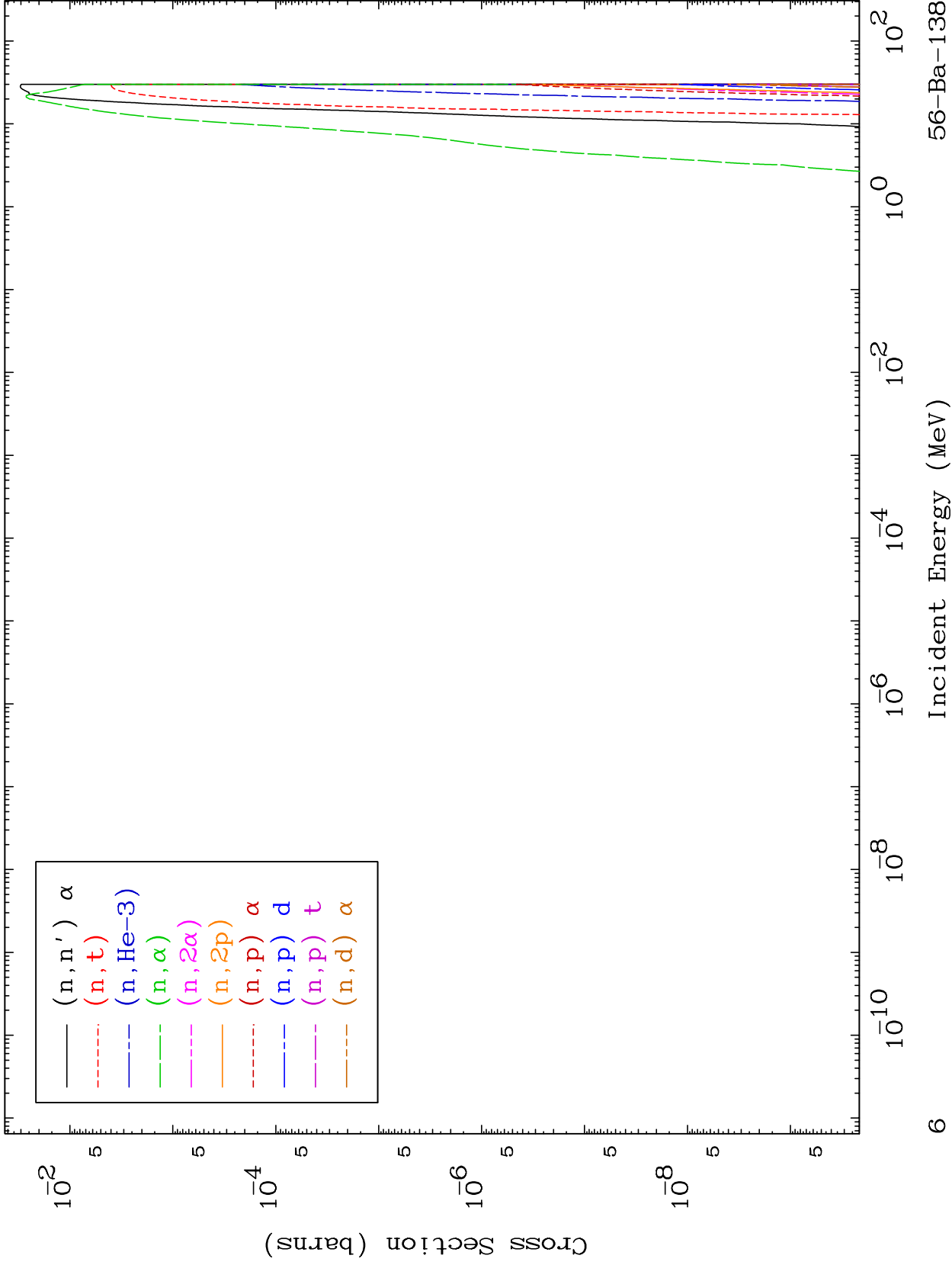


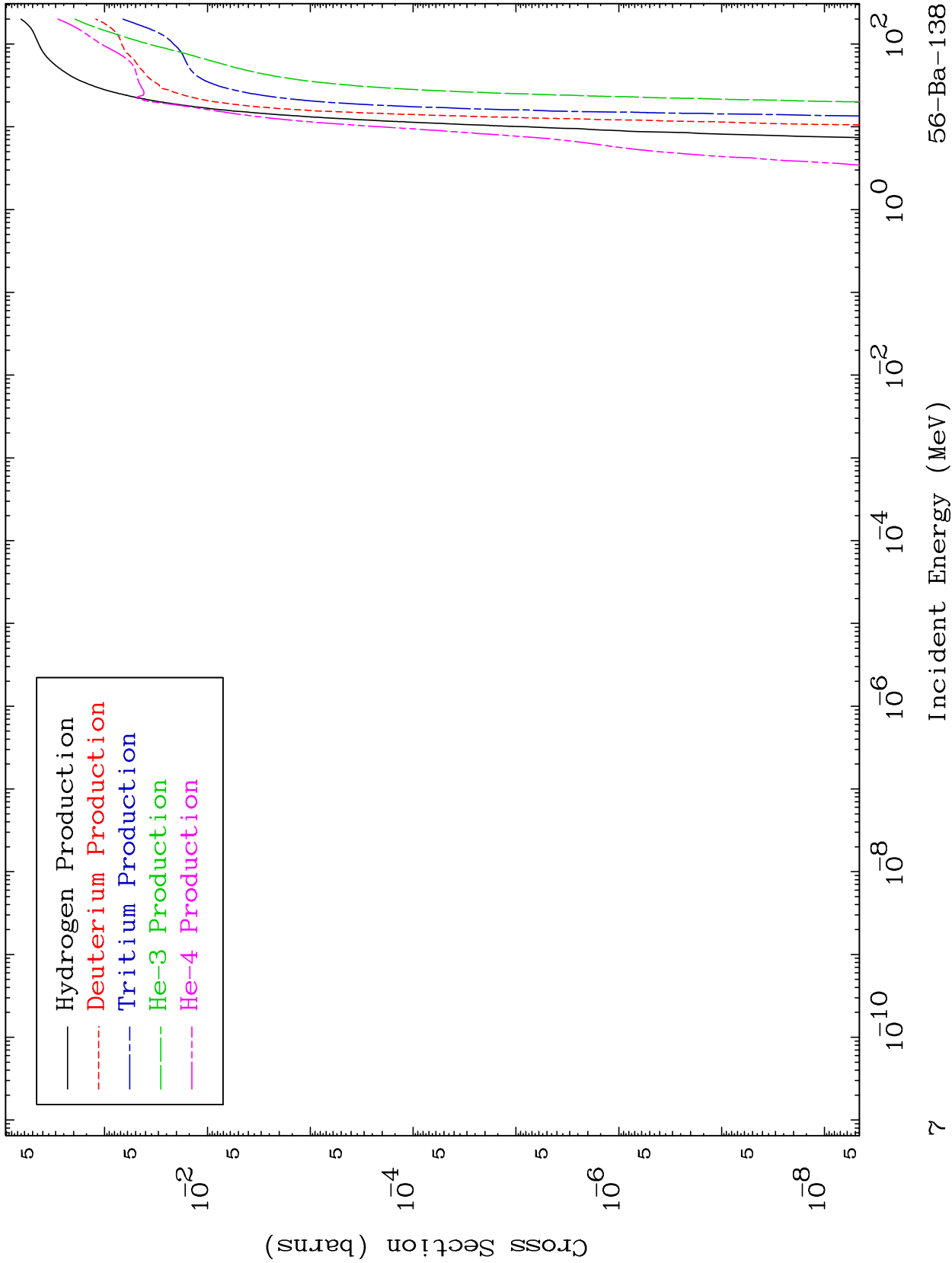


MAT 5649

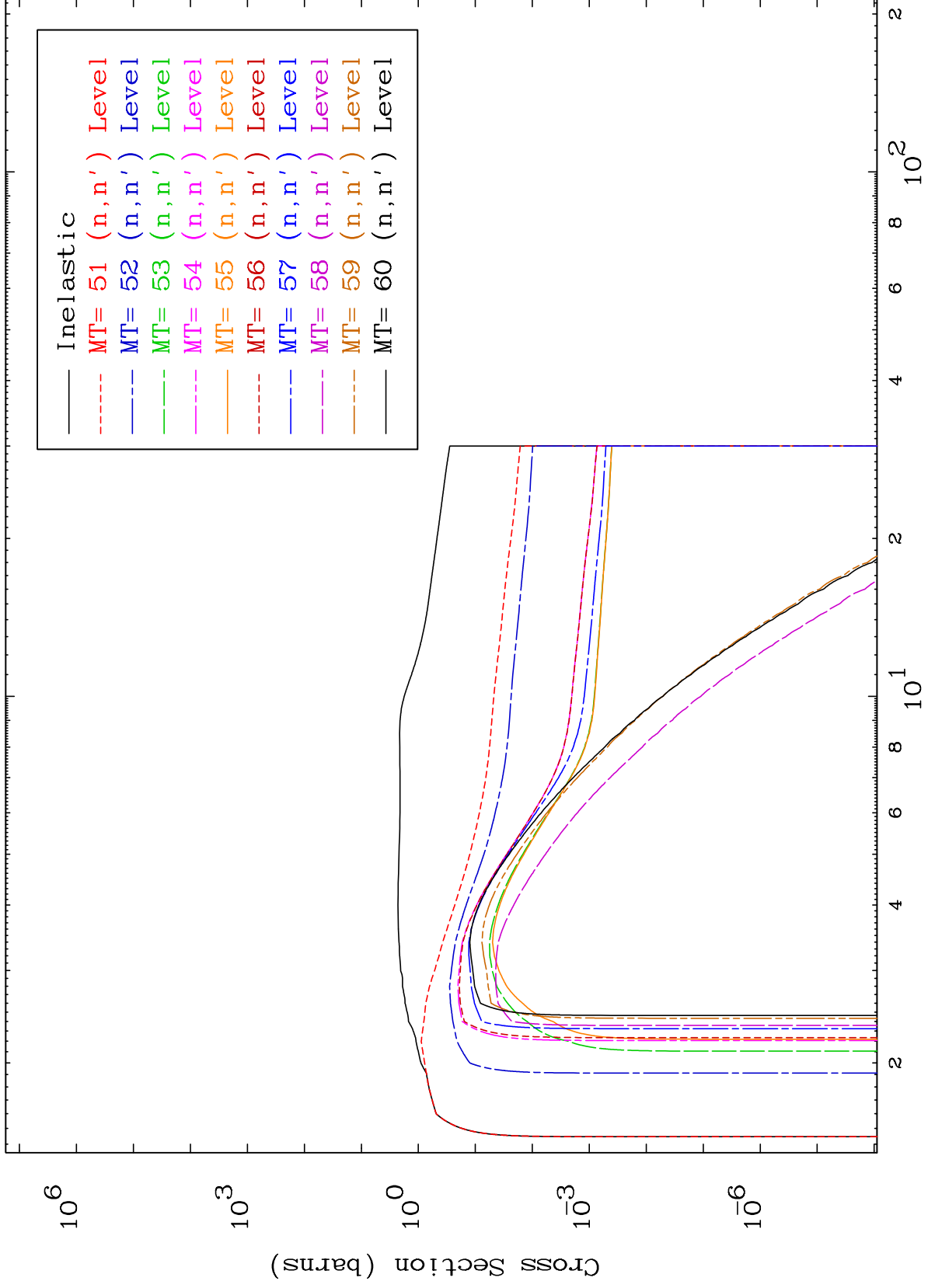
Charged Particle  
293 Kelvin Cross Sections

56-Ba-138

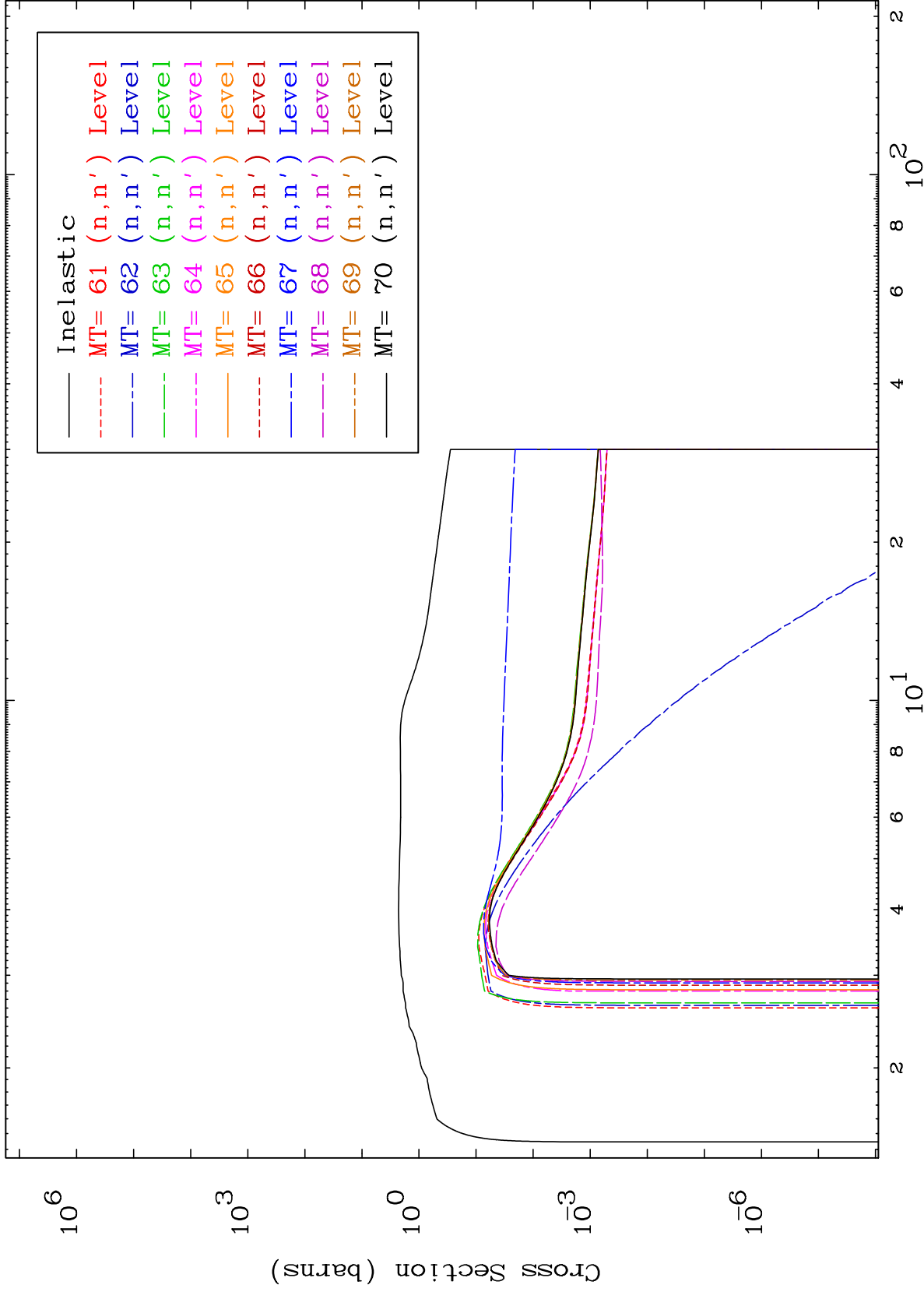








293 Kelvin Cross Sections

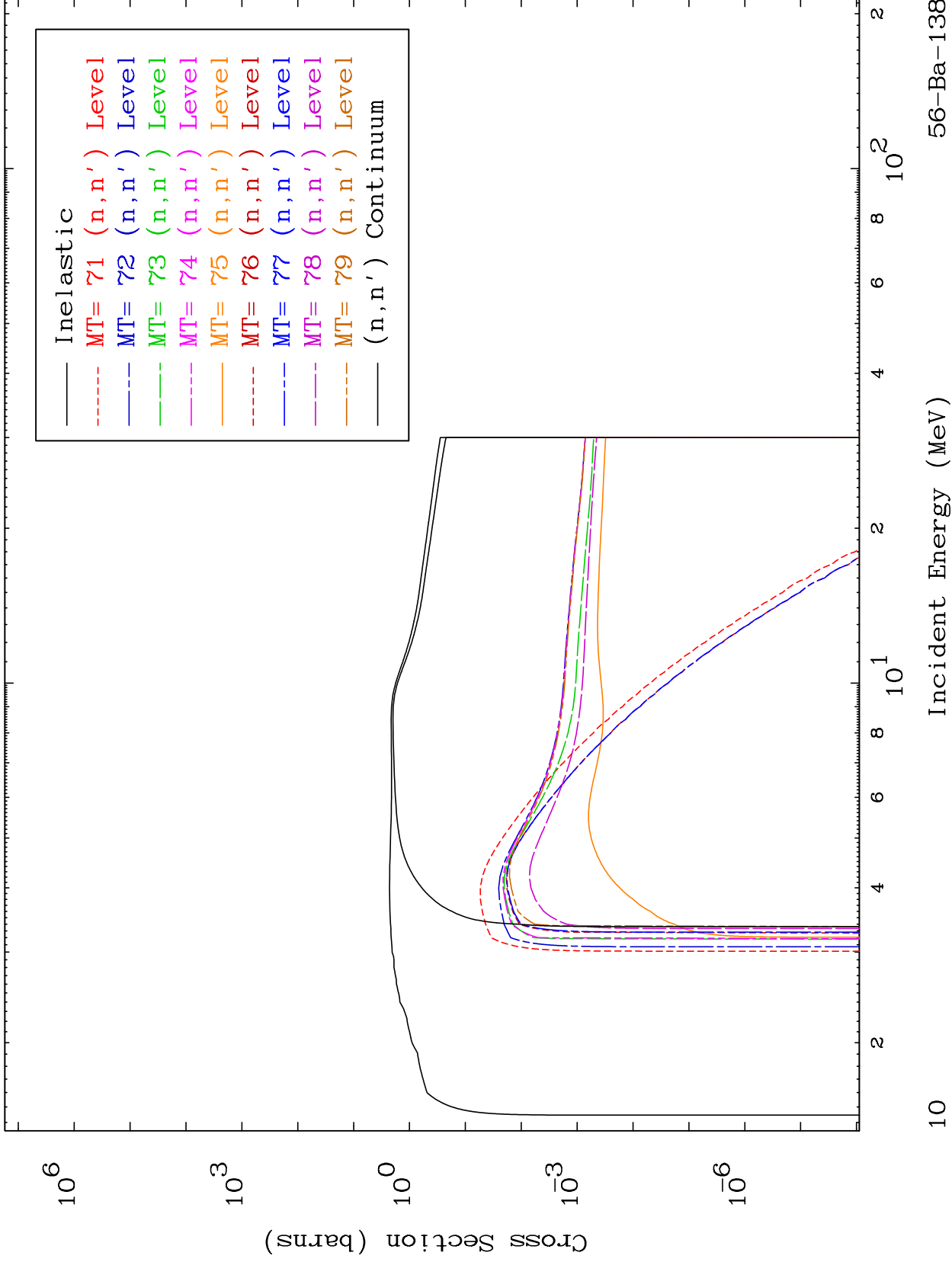


MAT 5649

(n,n') Levels

56-Ba-138

293 Kelvin Cross Sections



10

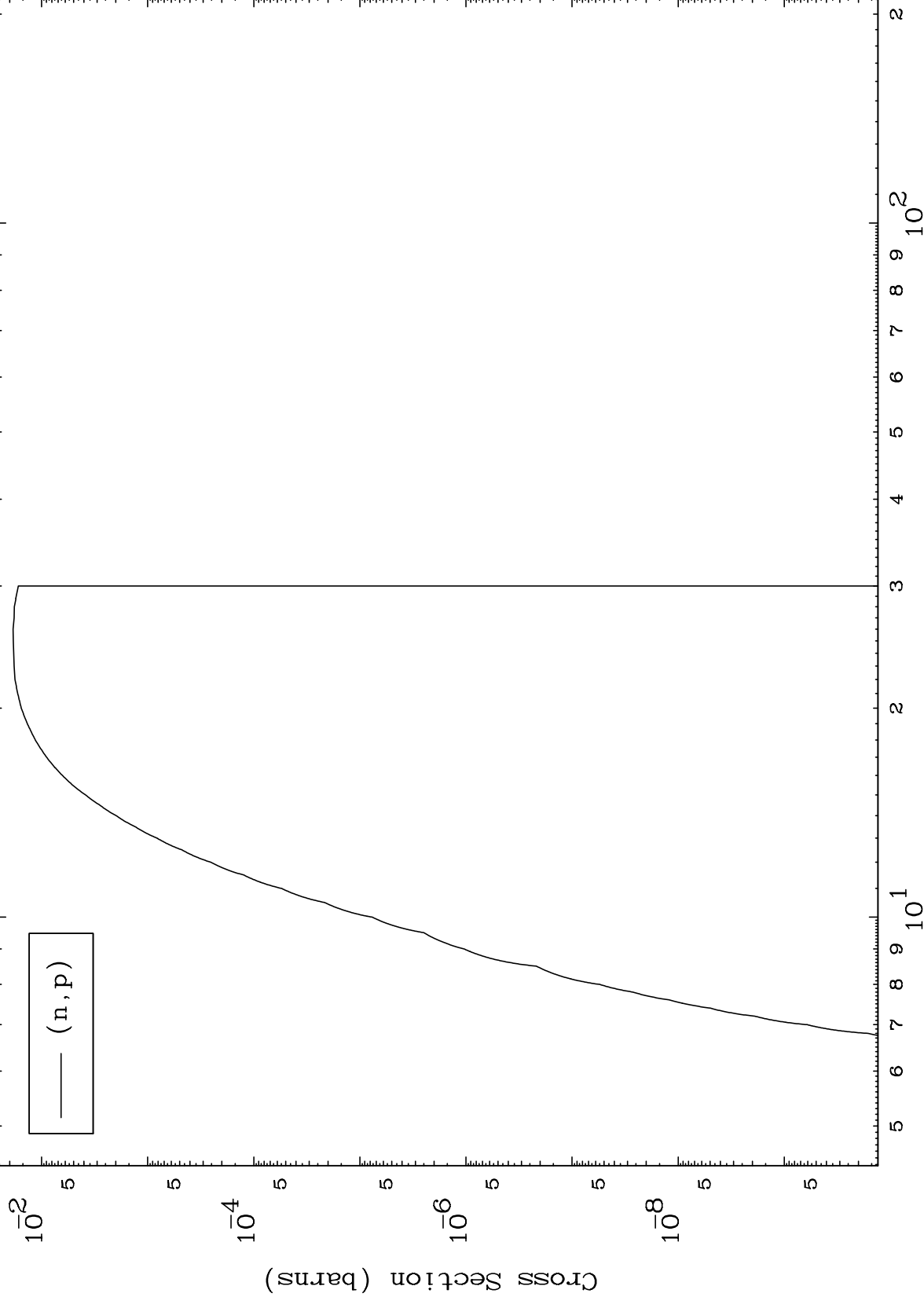
Incident Energy (MeV)

56-Ba-138

MAT 5649

(n,p) Levels  
293 Kelvin Cross Sections

56-Ba-138



11

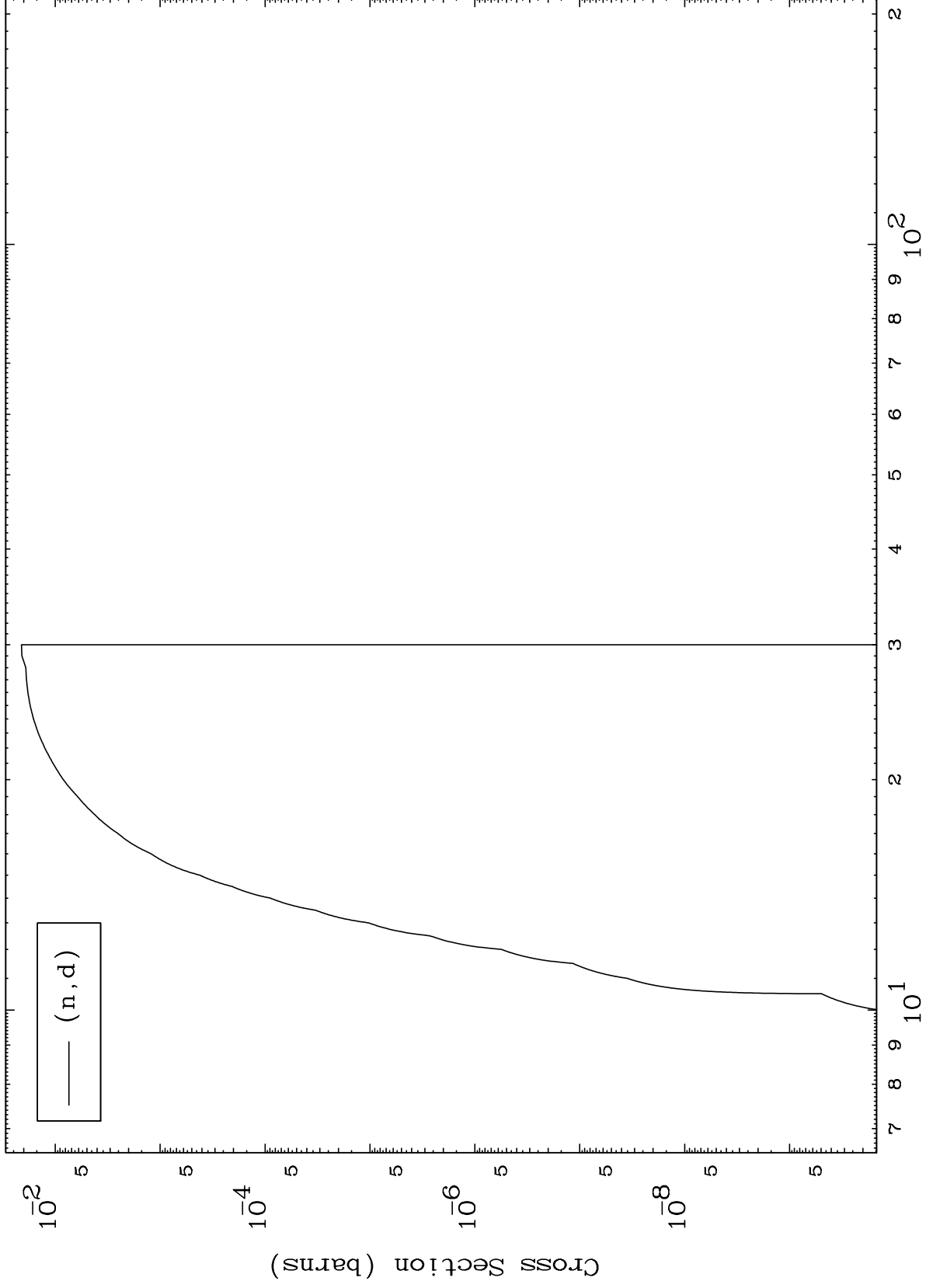
Incident Energy (MeV)

56-Ba-138

MAT 5649

(n,d) Levels  
293 Kelvin Cross Sections

56-Ba-138



12

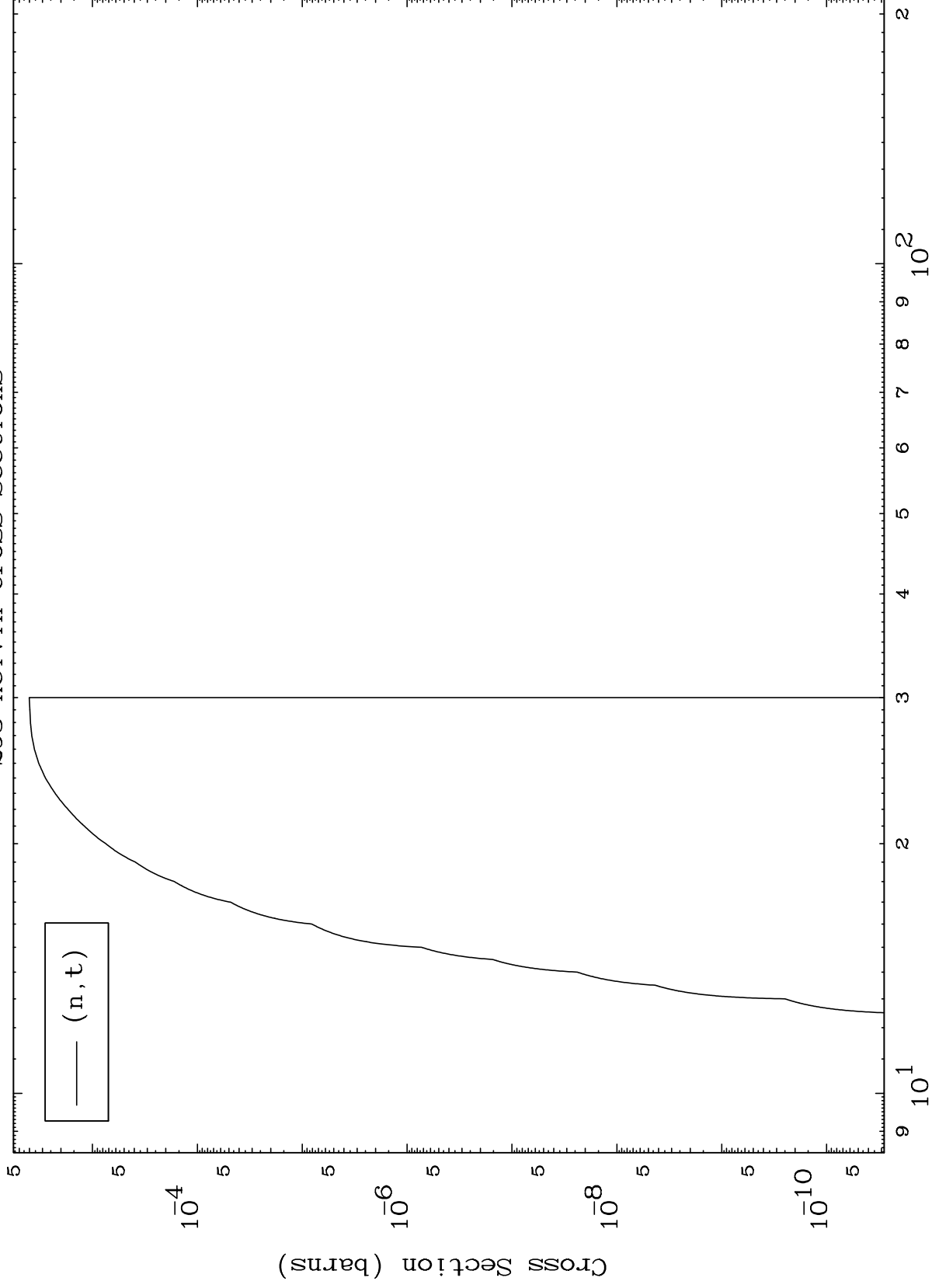
Incident Energy (MeV)

56-Ba-138

MAT 5649

(n,t) Levels  
293 Kelvin Cross Sections

56-Ba-138



Incident Energy (MeV)

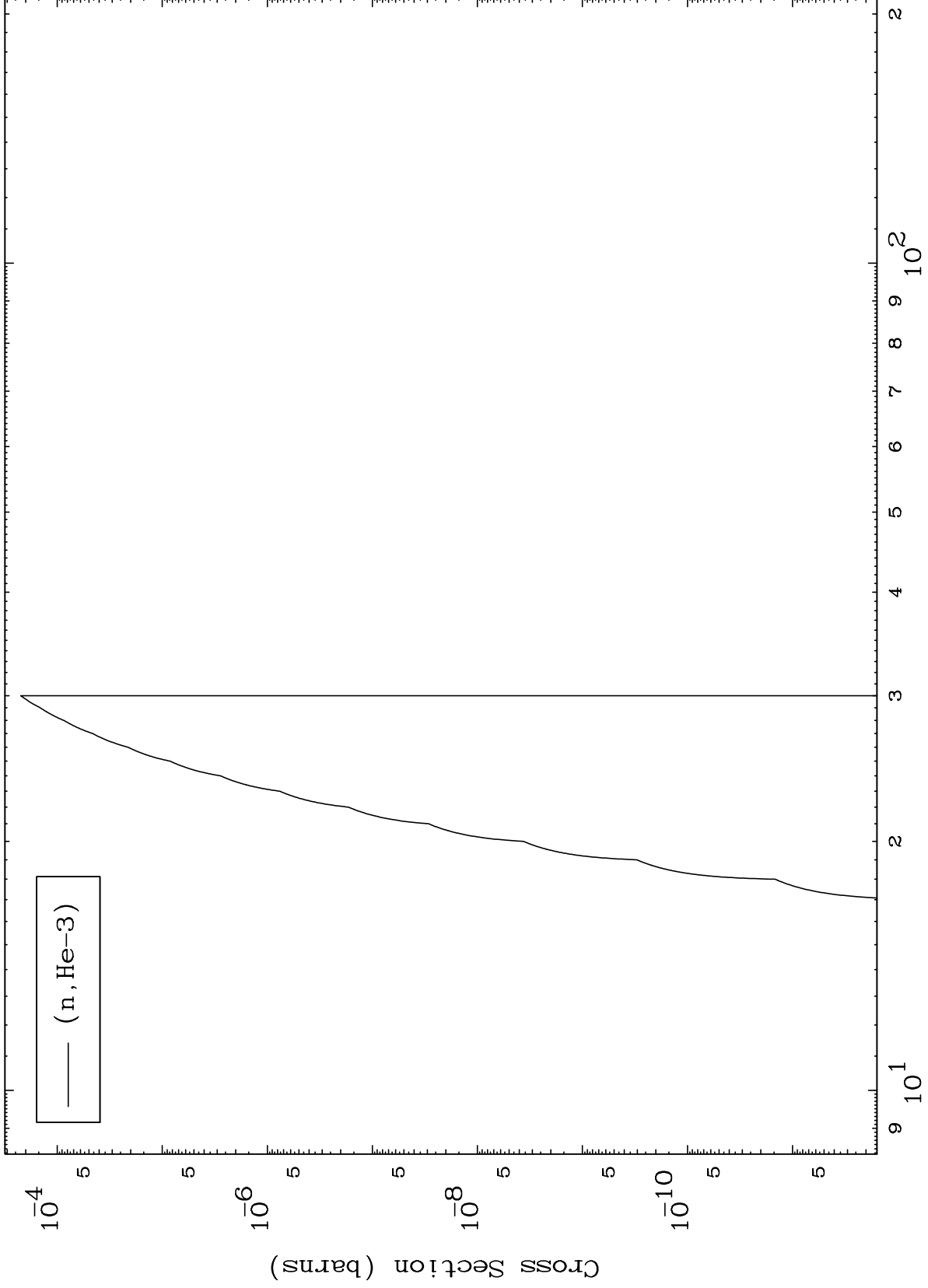
56-Ba-138

13

MAT 5649

(n,He3) Levels  
293 Kelvin Cross Sections

56-Ba-138



14

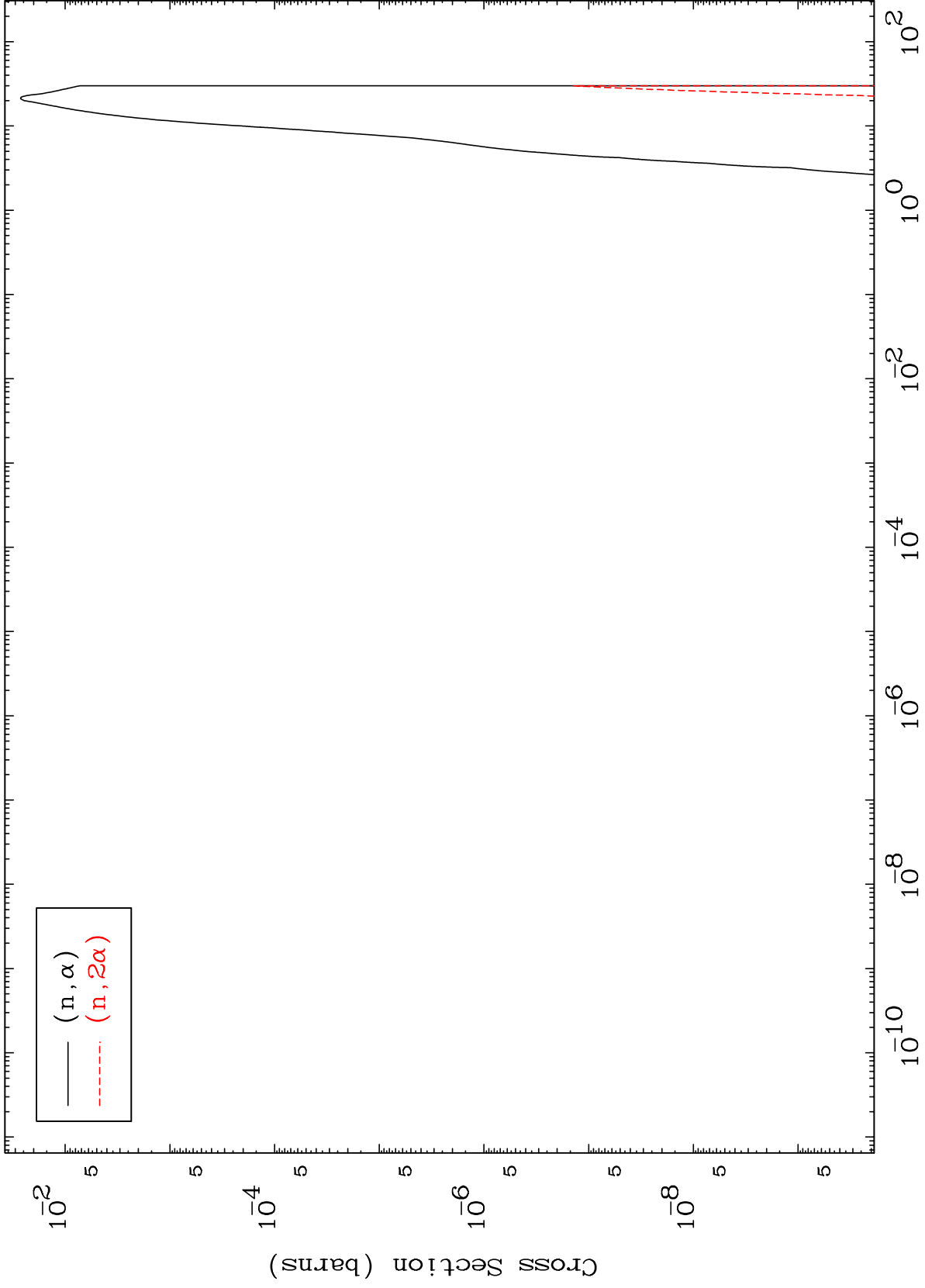
Incident Energy (MeV)

56-Ba-138

MAT 5649

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

56-Ba-138



15

Incident Energy (MeV)

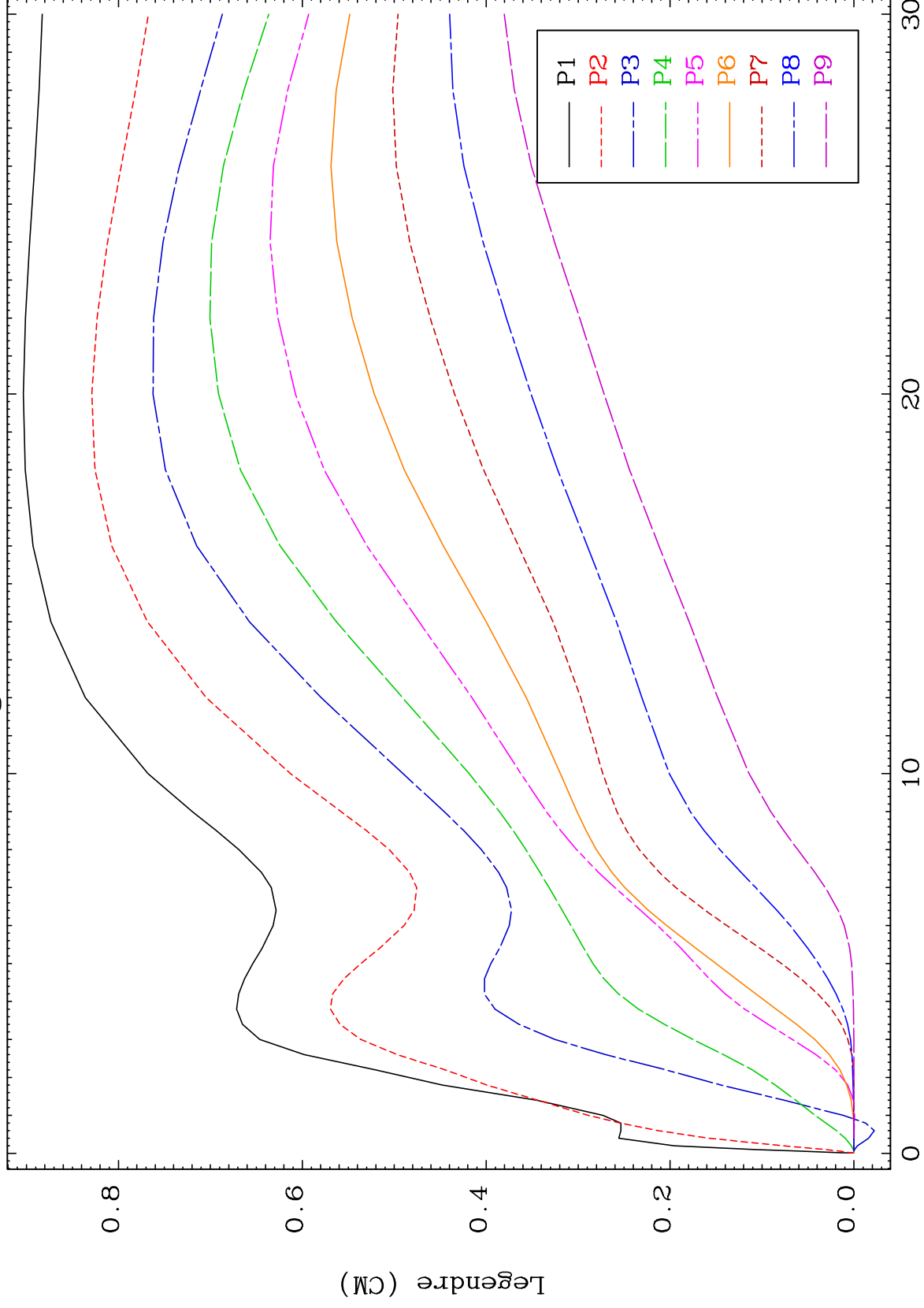
56-Ba-138



MAT 5649

Elastic Legendre Coefficients

56-Ba-138



16

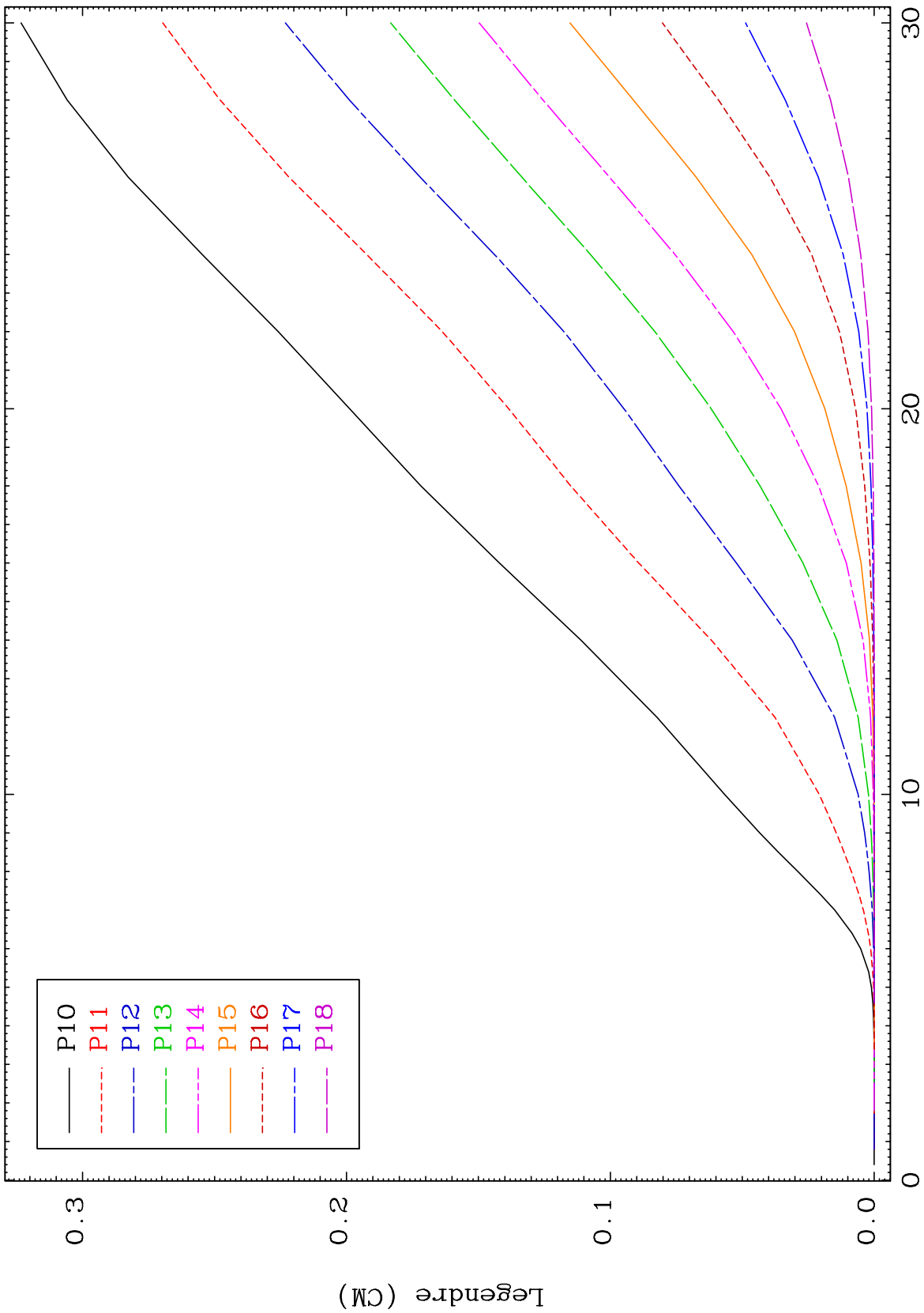
Incident Energy (MeV)

56-Ba-138

MAT 5649

Elastic Legendre Coefficients

56-Ba-138



17

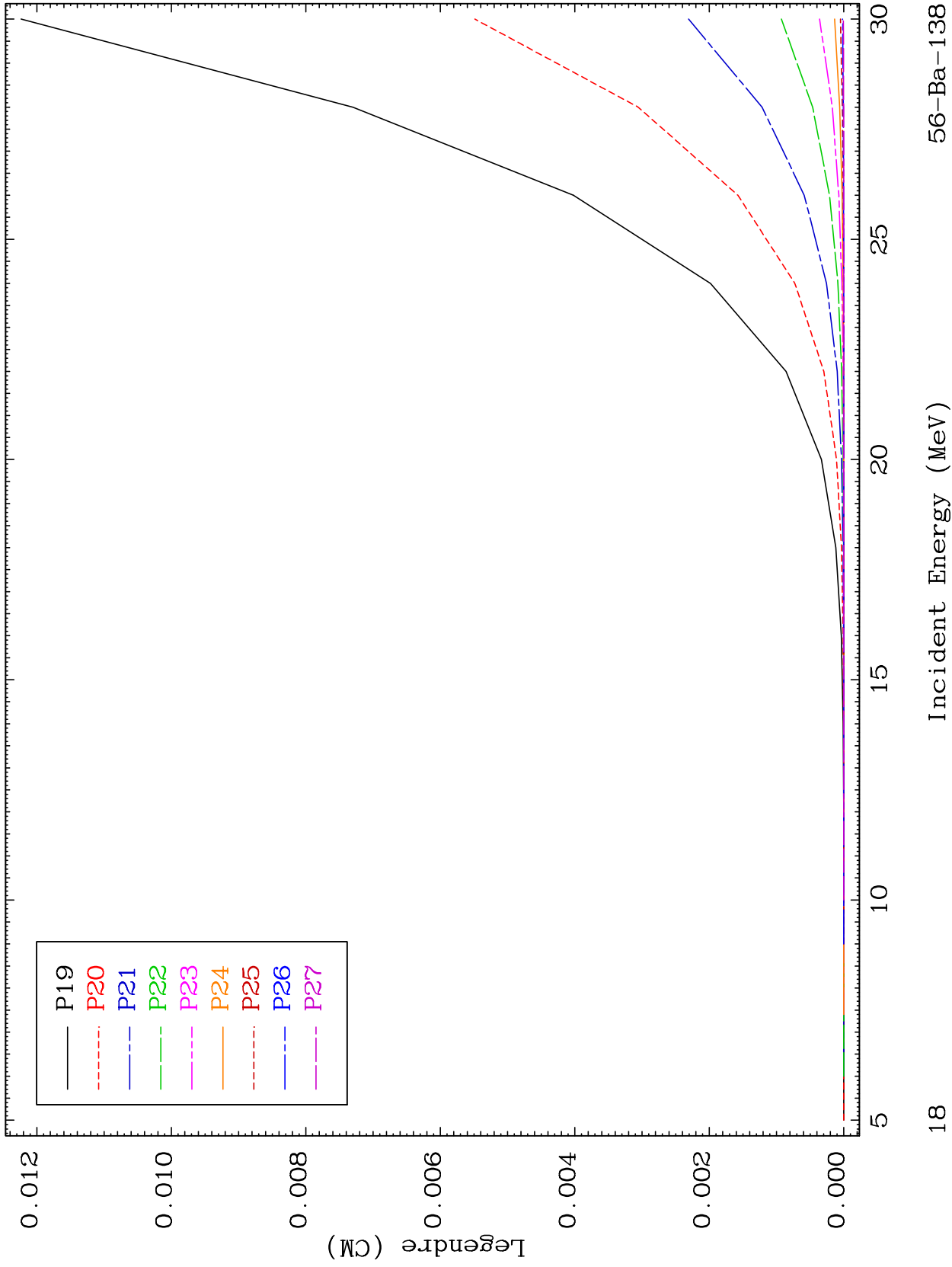
Incident Energy (MeV)

56-Ba-138

MAT 5649

### Elastic Legendre Coefficients

56-Ba-138



18

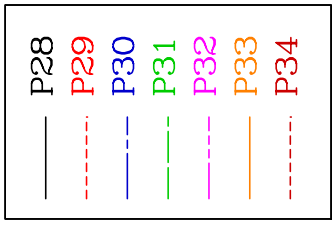
Incident Energy (MeV)

56-Ba-138

MAT 5649

Elastic Legendre Coefficients

56-Ba-138



$\times 10^{-6}$

1.5

Legendre (CM)

1.0

0.5

0.0

15

20

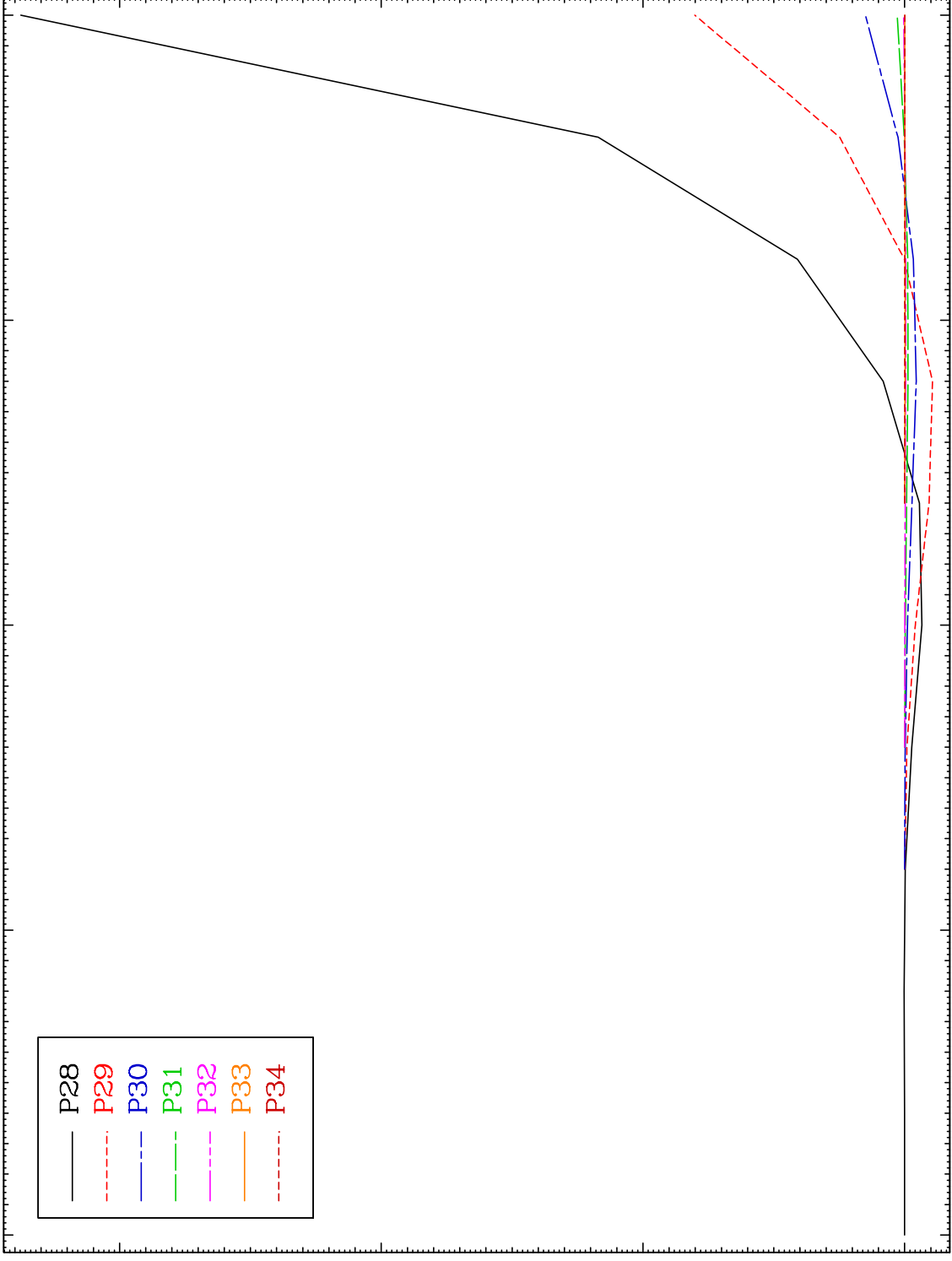
25

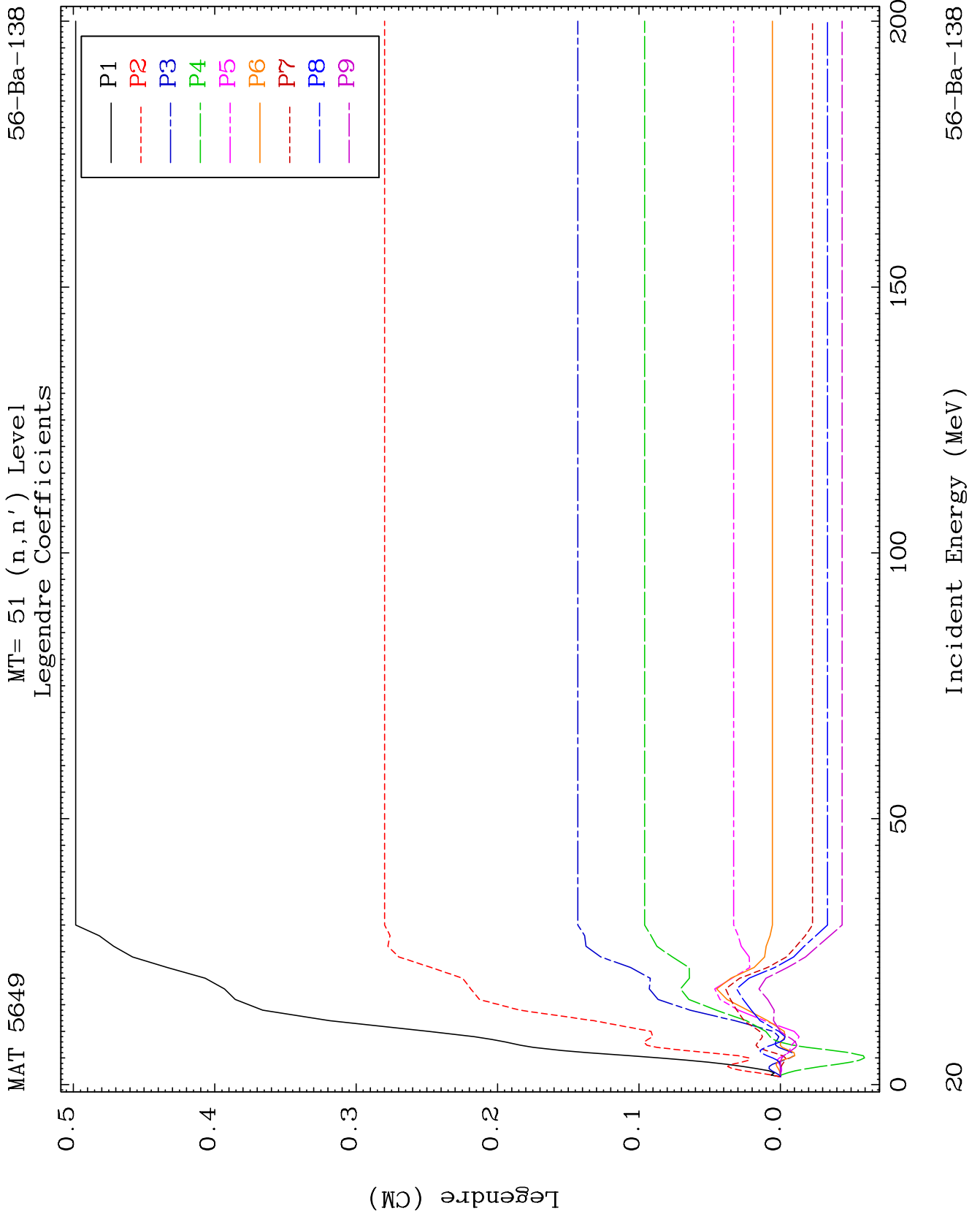
30

19

Incident Energy (MeV)

56-Ba-138

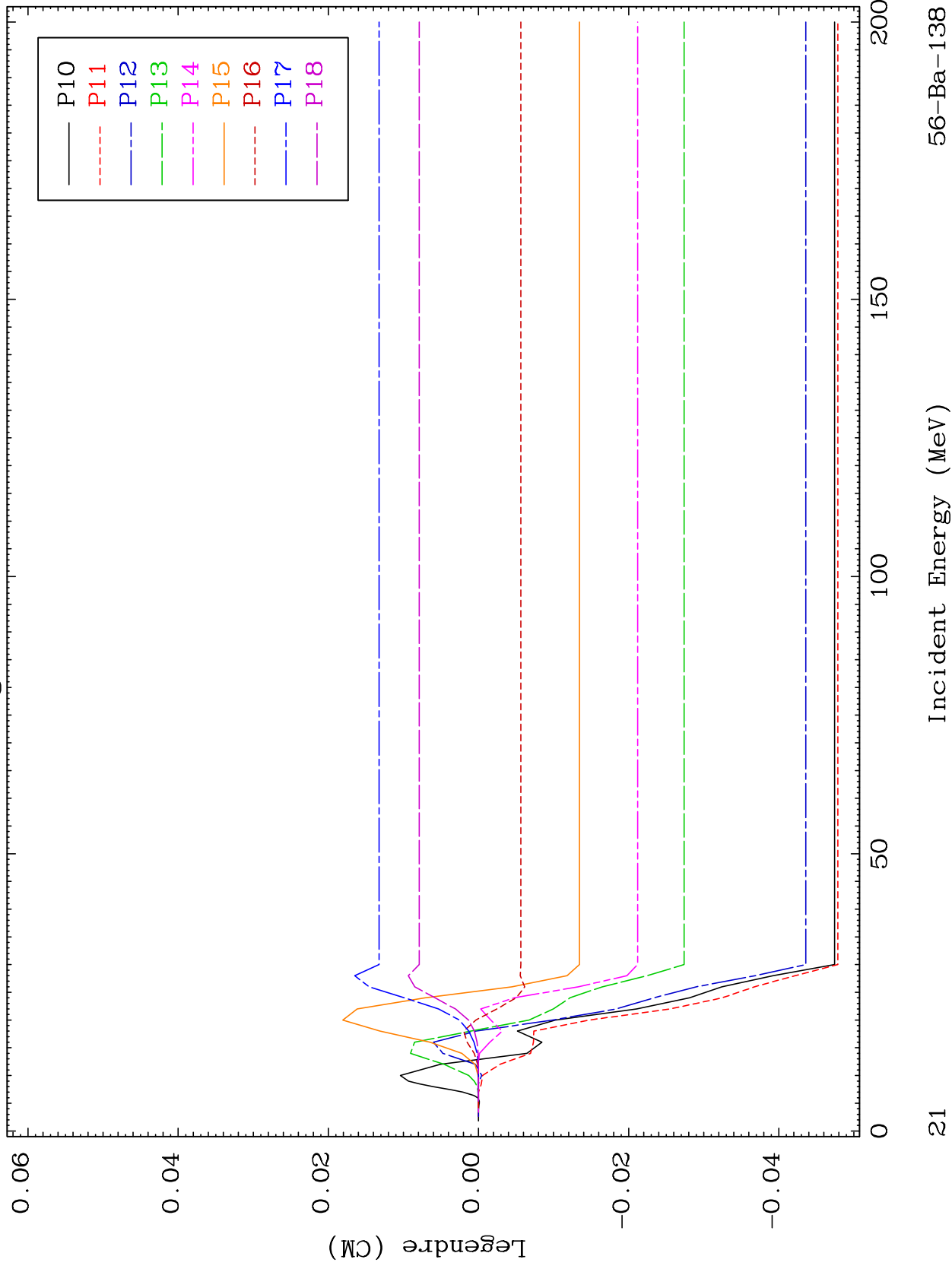




MAT 5649

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

56-Ba-138



21

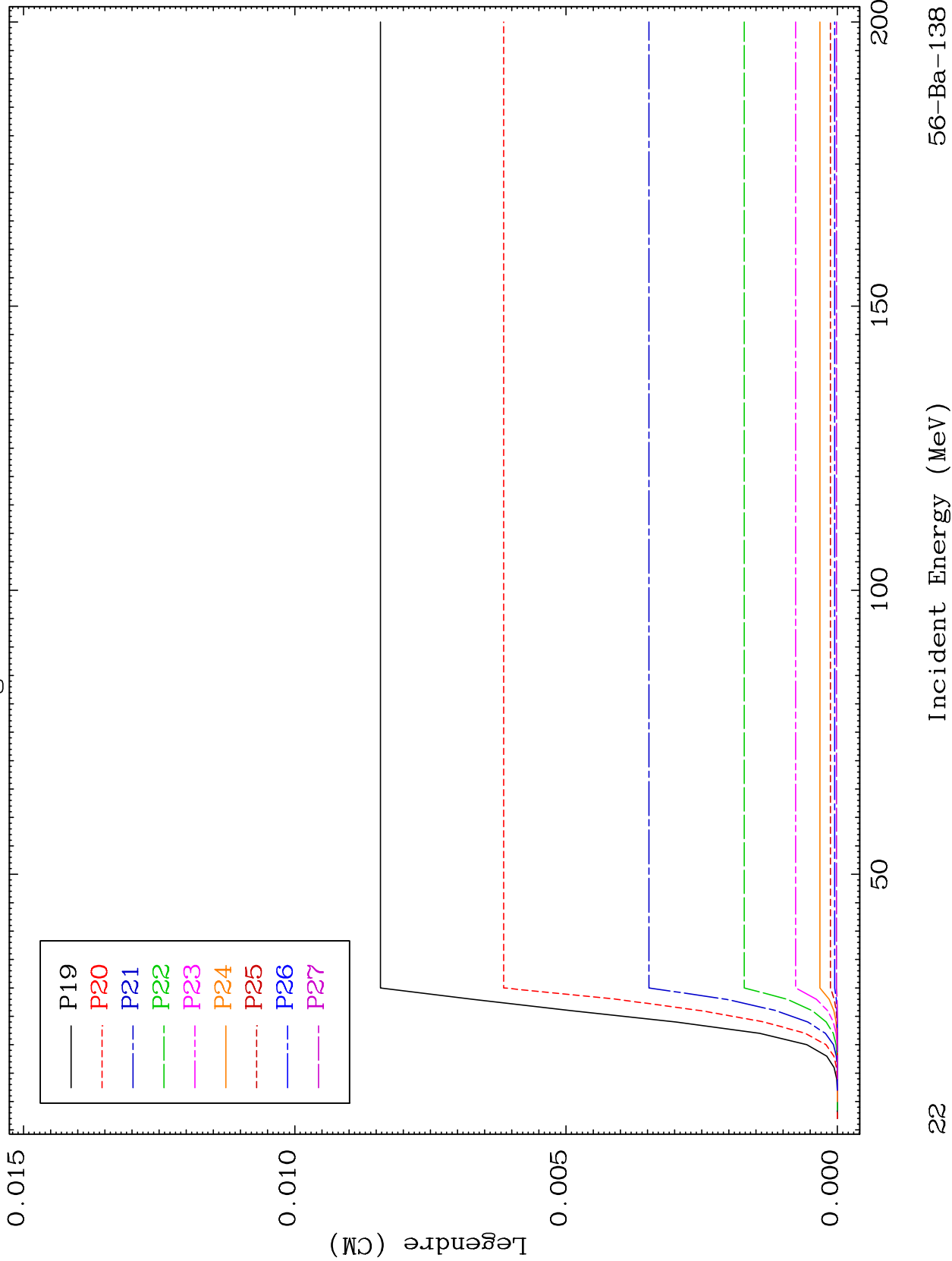
Incident Energy (MeV)

56-Ba-138

MAT 5649

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

56-Ba-138



22

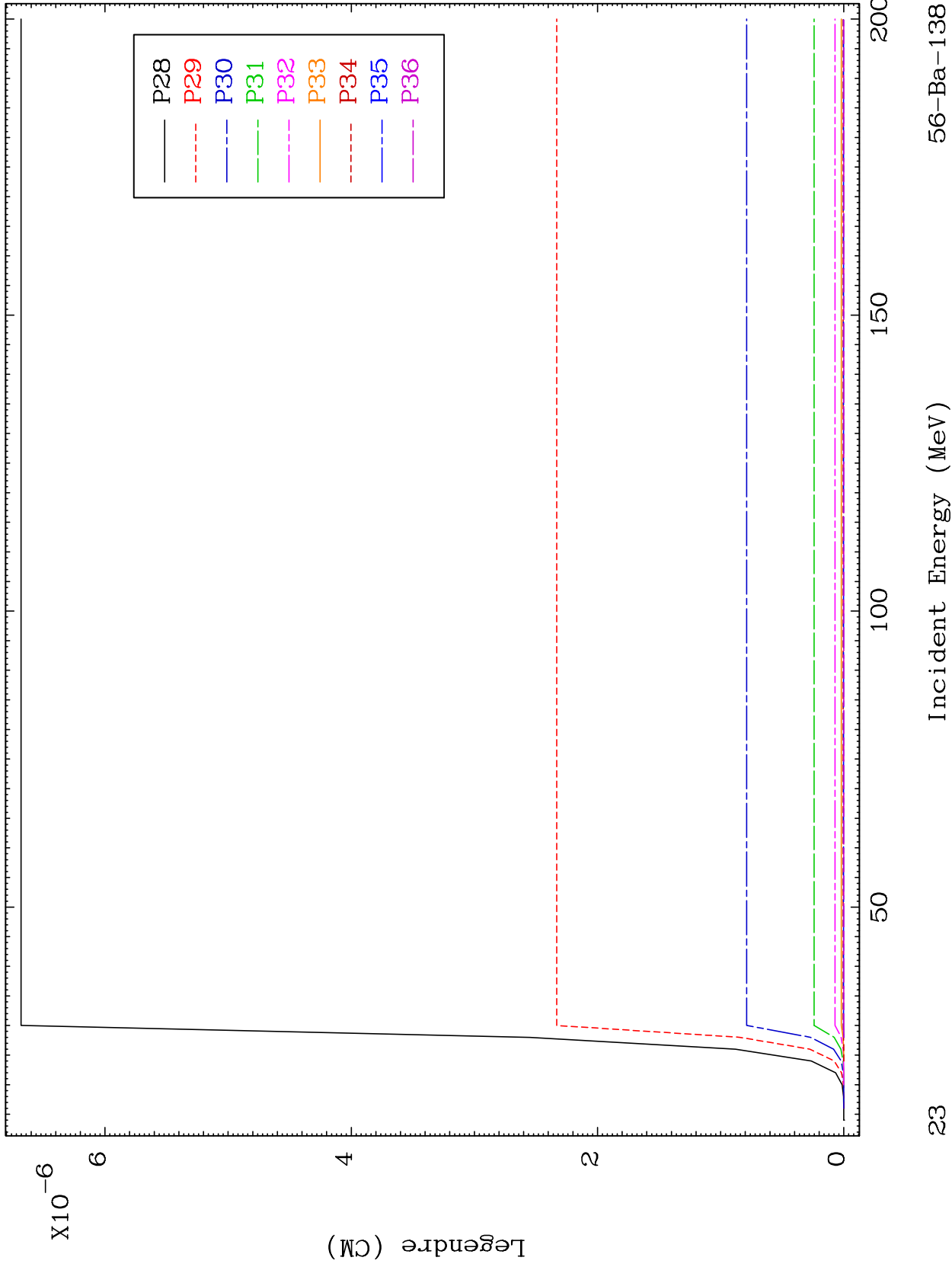
Incident Energy (MeV)

56-Ba-138

MAT 5649

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

56-Ba-138



23

Incident Energy (MeV)

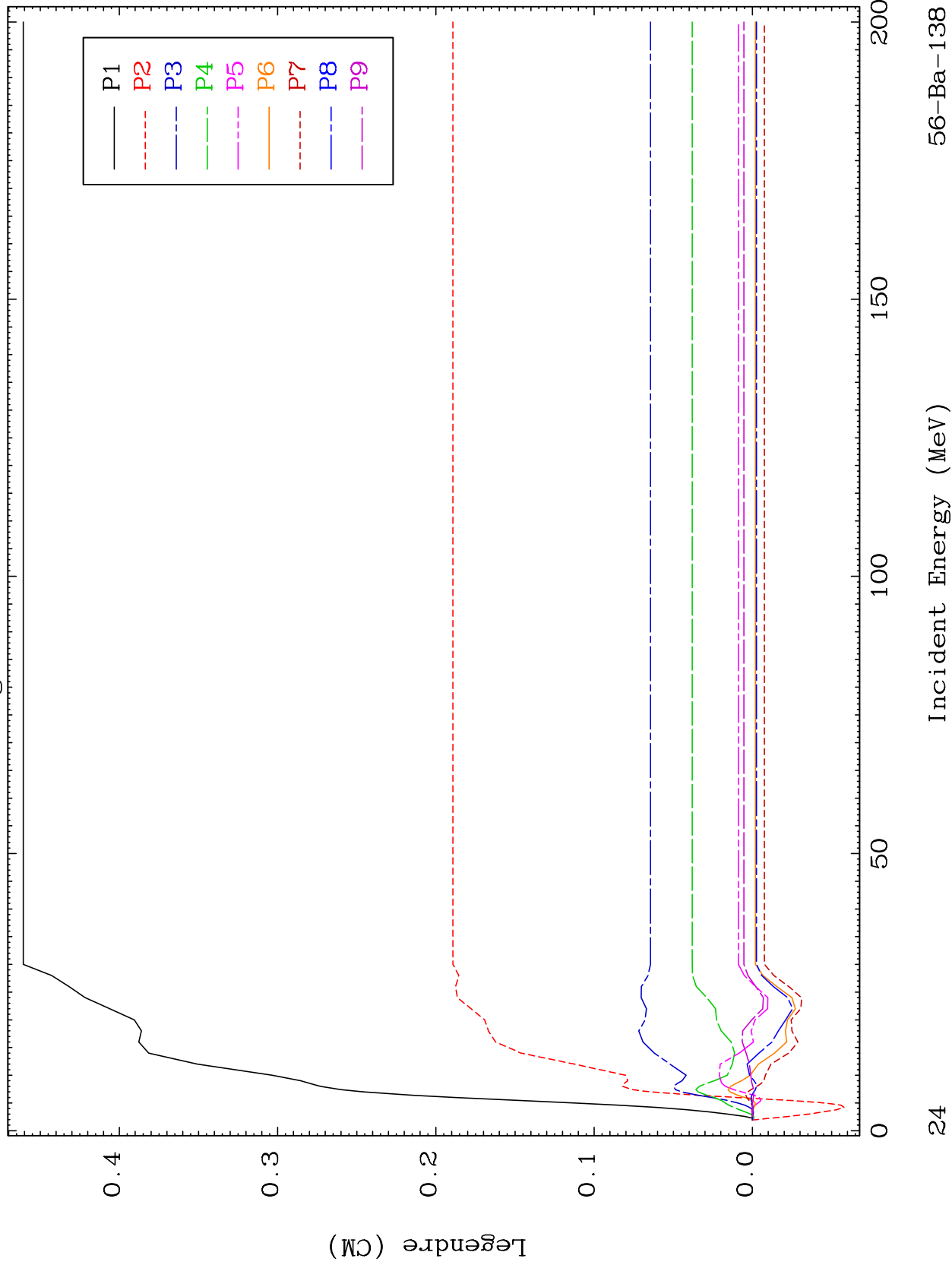
56-Ba-138



MAT 5649

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

56-Ba-138



56-Ba-138

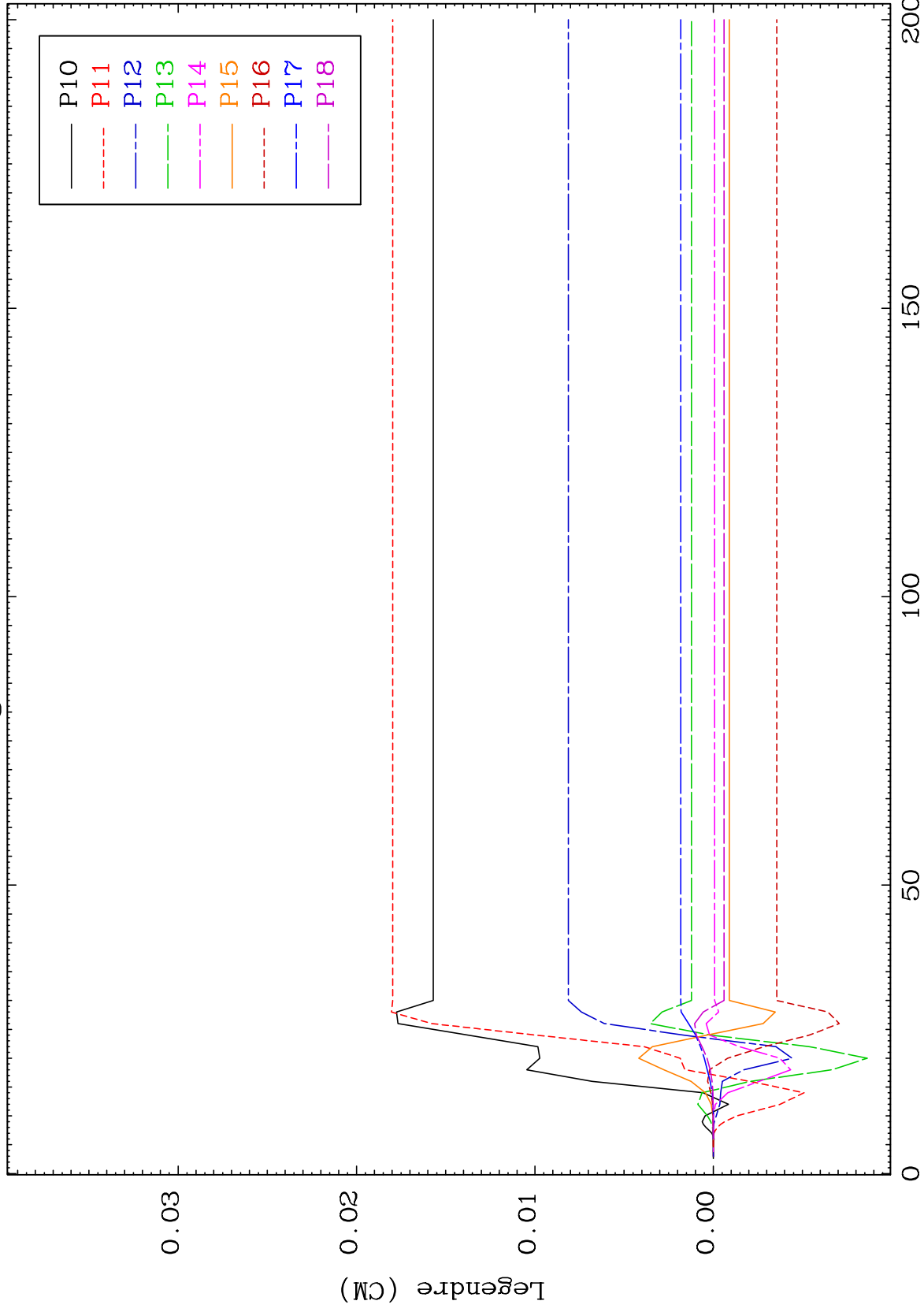
Incident Energy (MeV)

24

MAT 5649

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

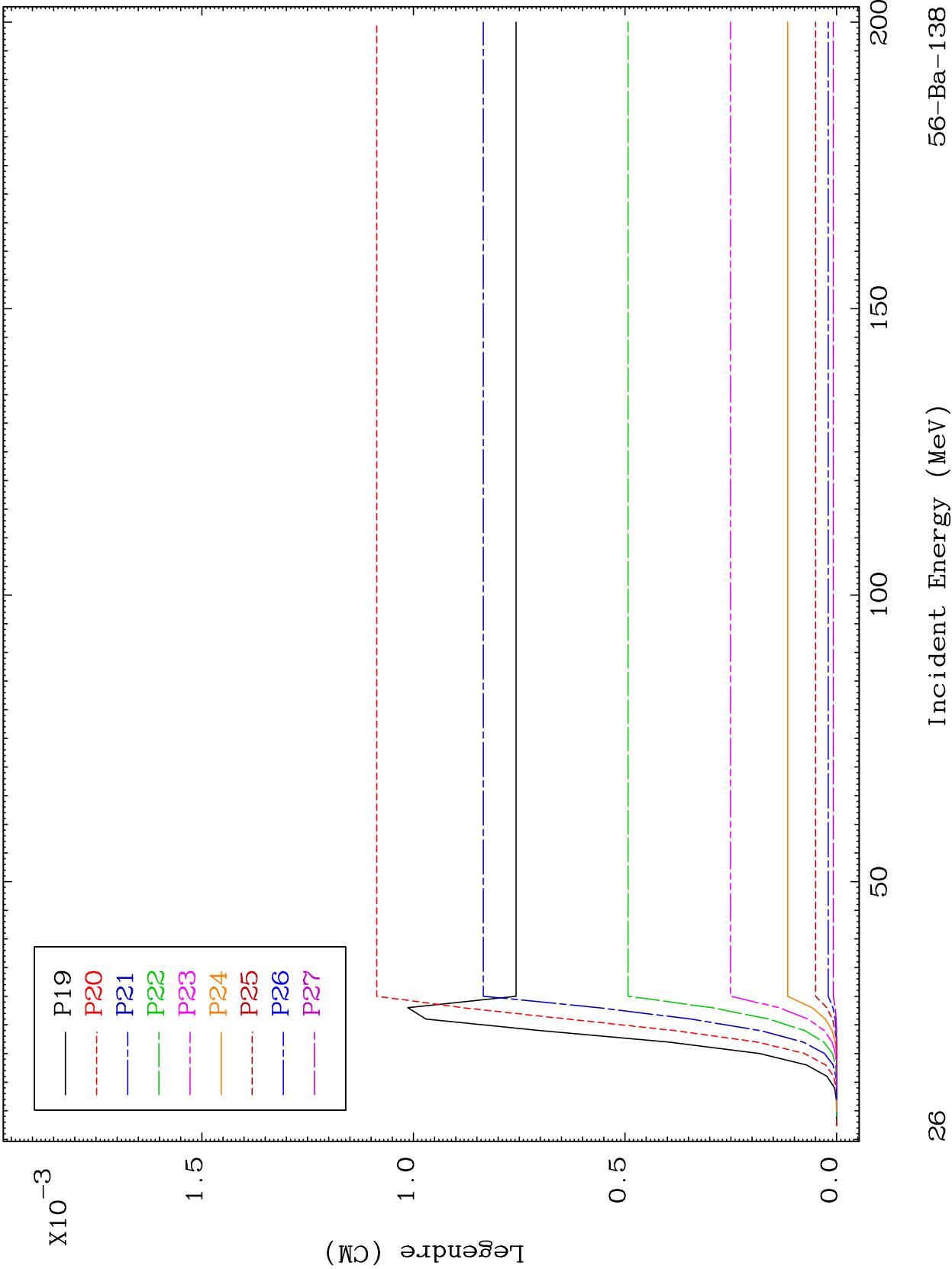
56-Ba-138



25

Incident Energy (MeV)

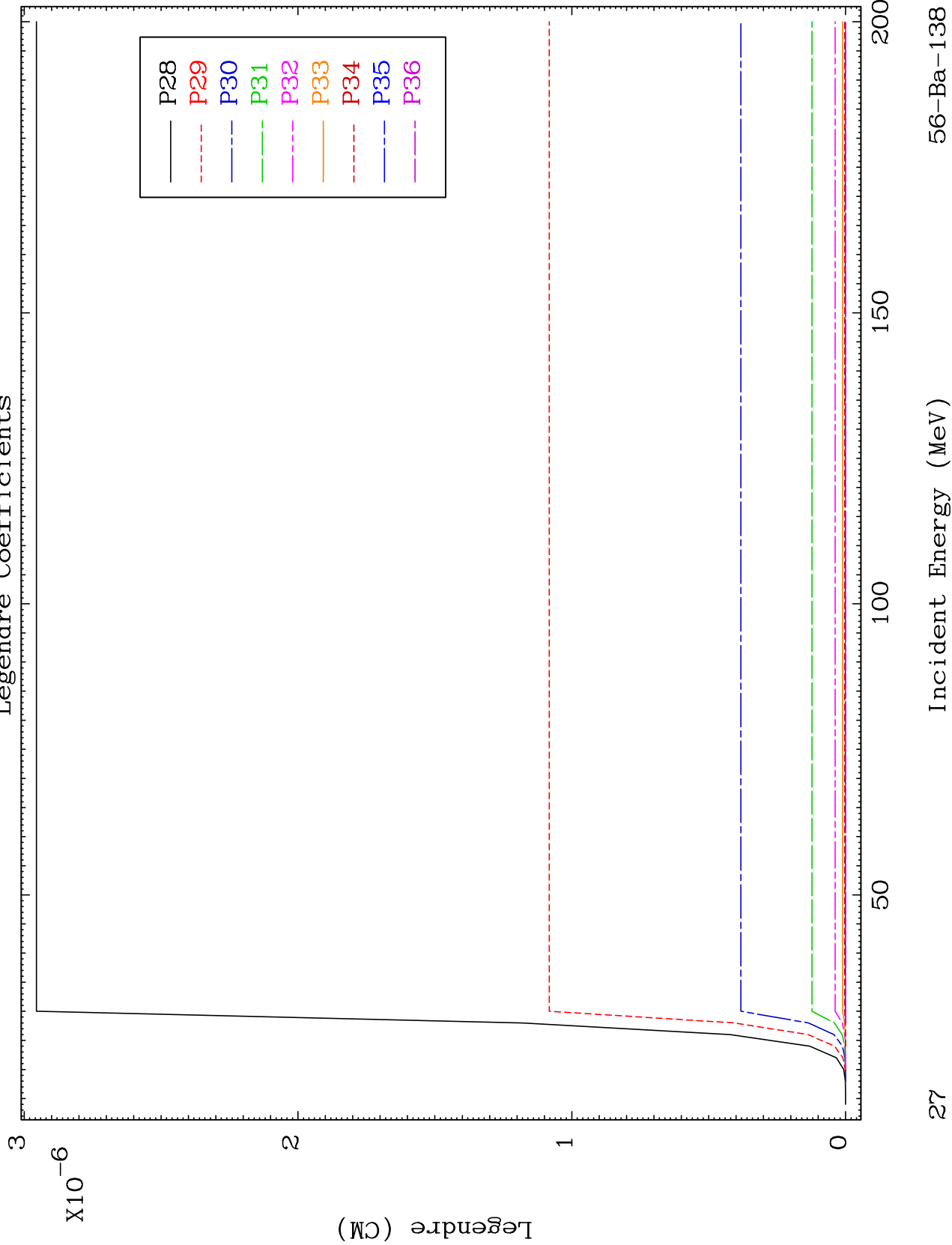
56-Ba-138



MAT 5649

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

56-Ba-138



27

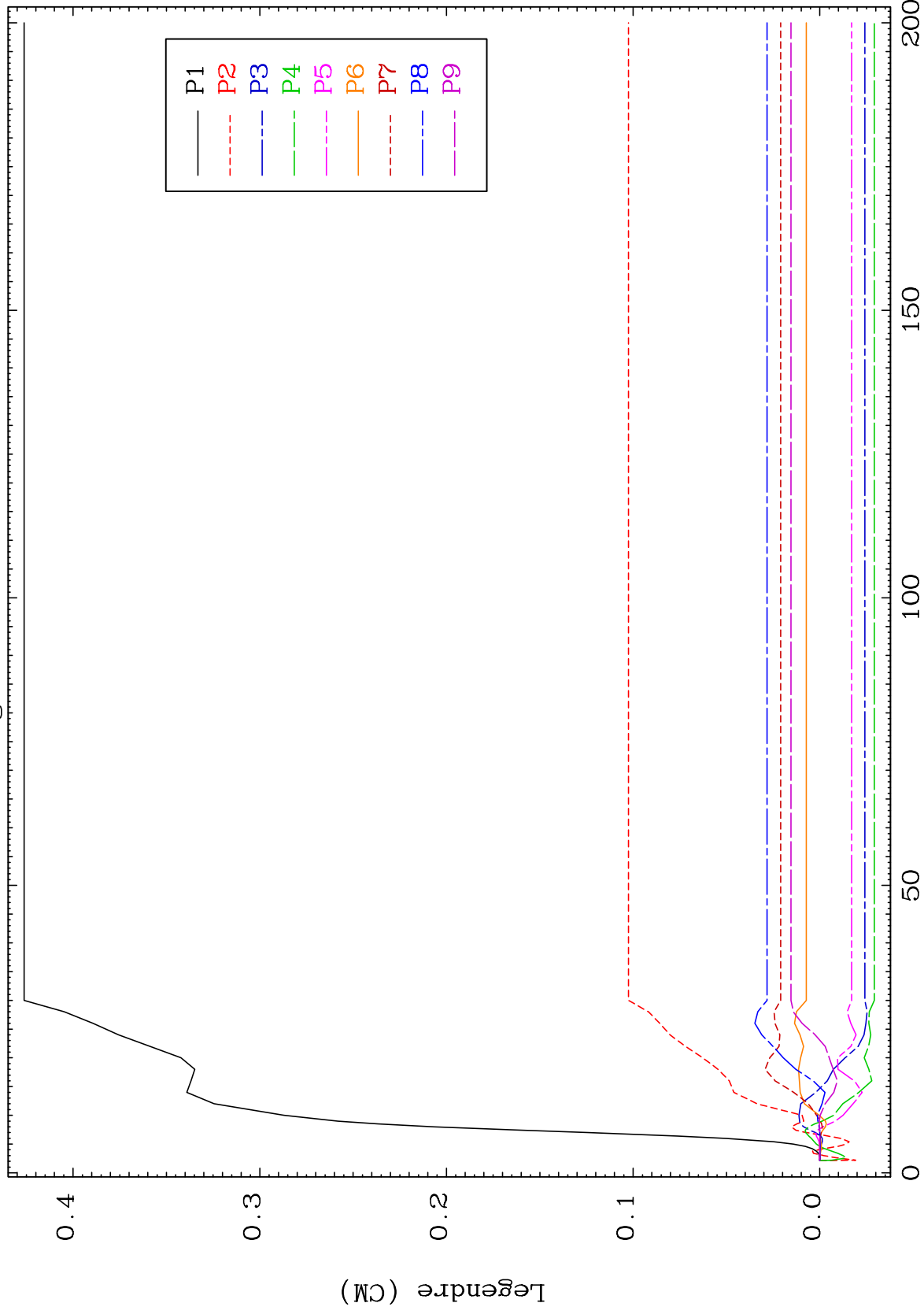
Incident Energy (MeV)

56-Ba-138

MAT 5649

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

56-Ba-138



28

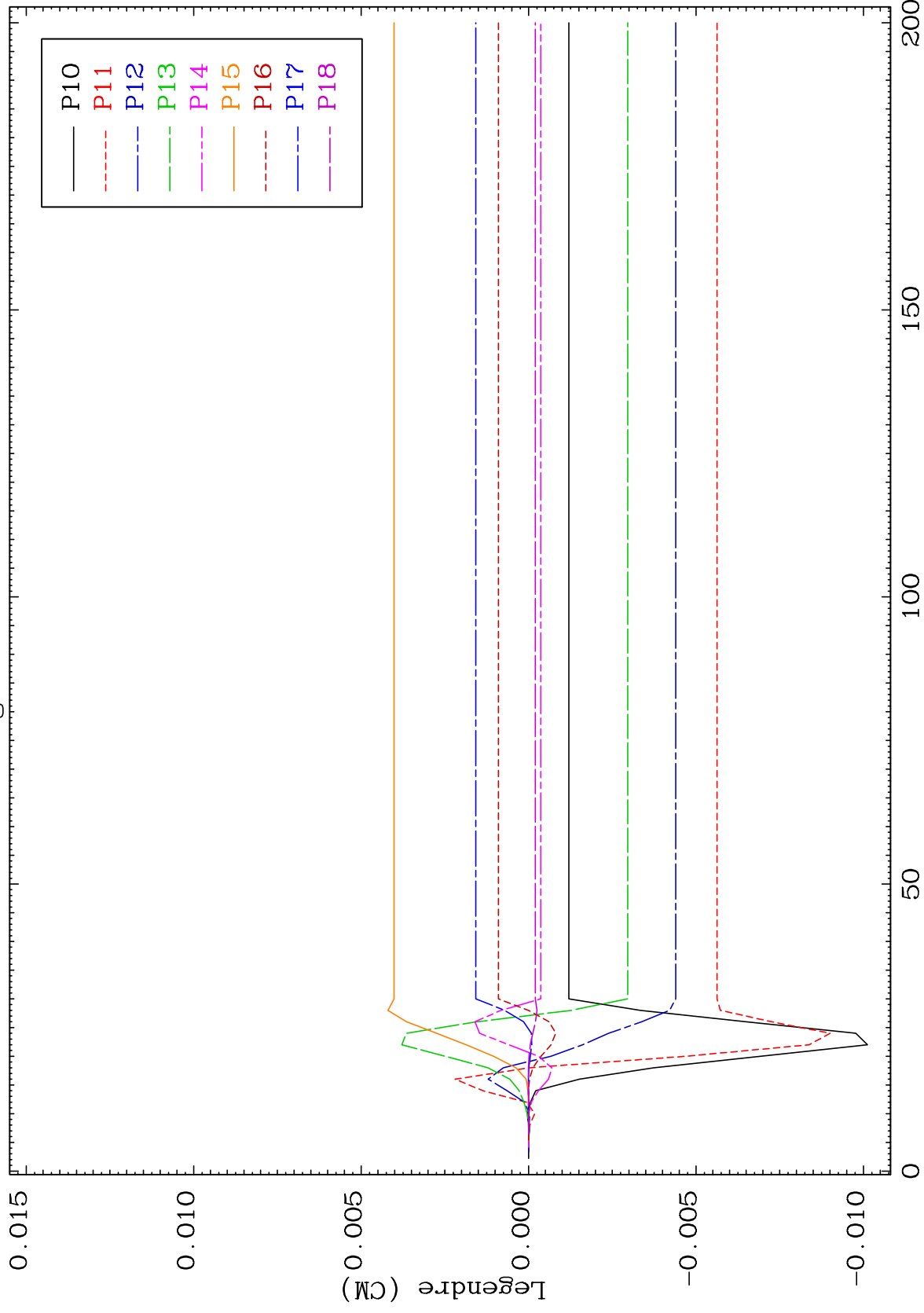
Incident Energy (MeV)

56-Ba-138

MAT 5649

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

56-Ba-138



29

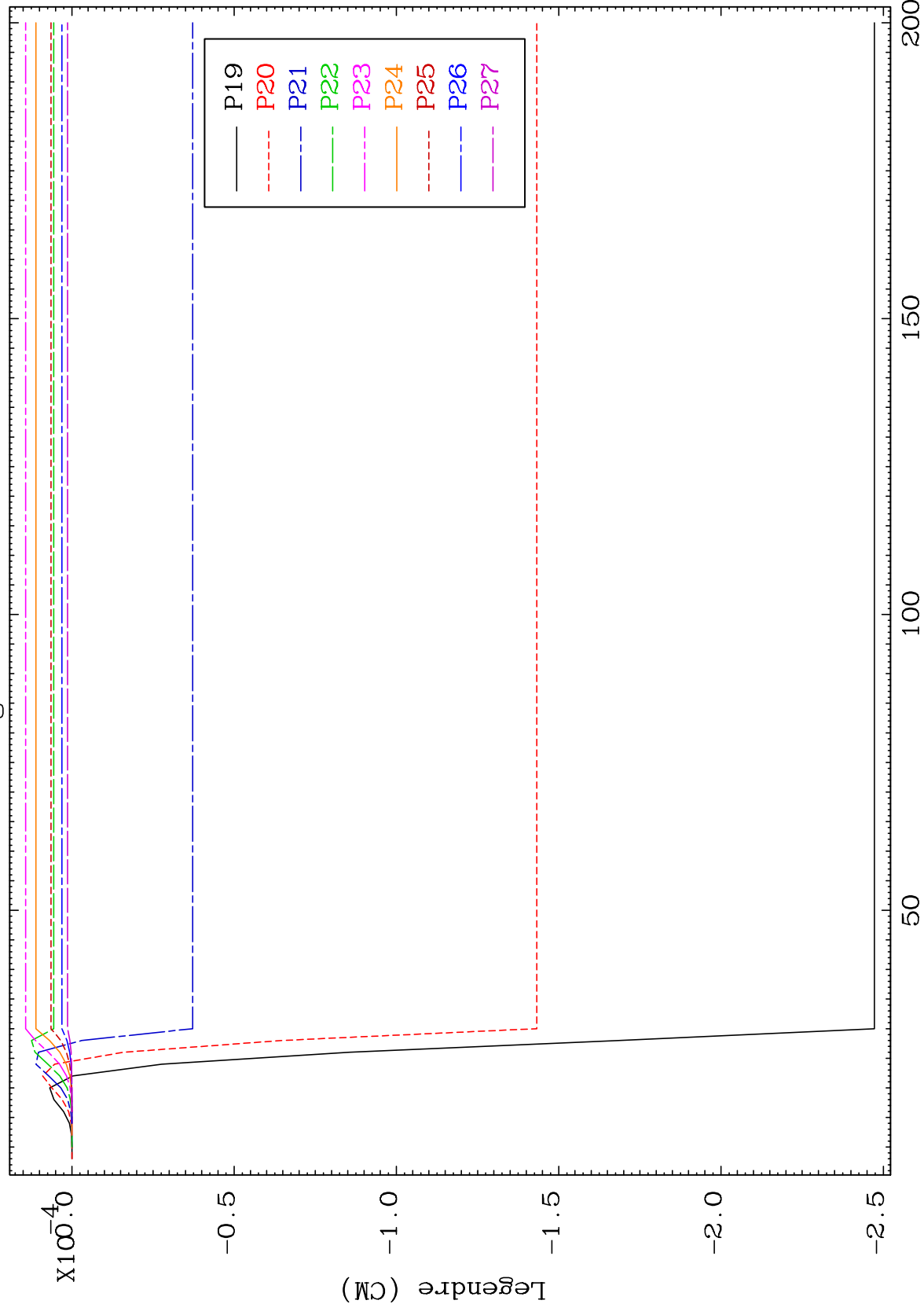
Incident Energy (MeV)

56-Ba-138

MAT 5649

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

56-Ba-138



30

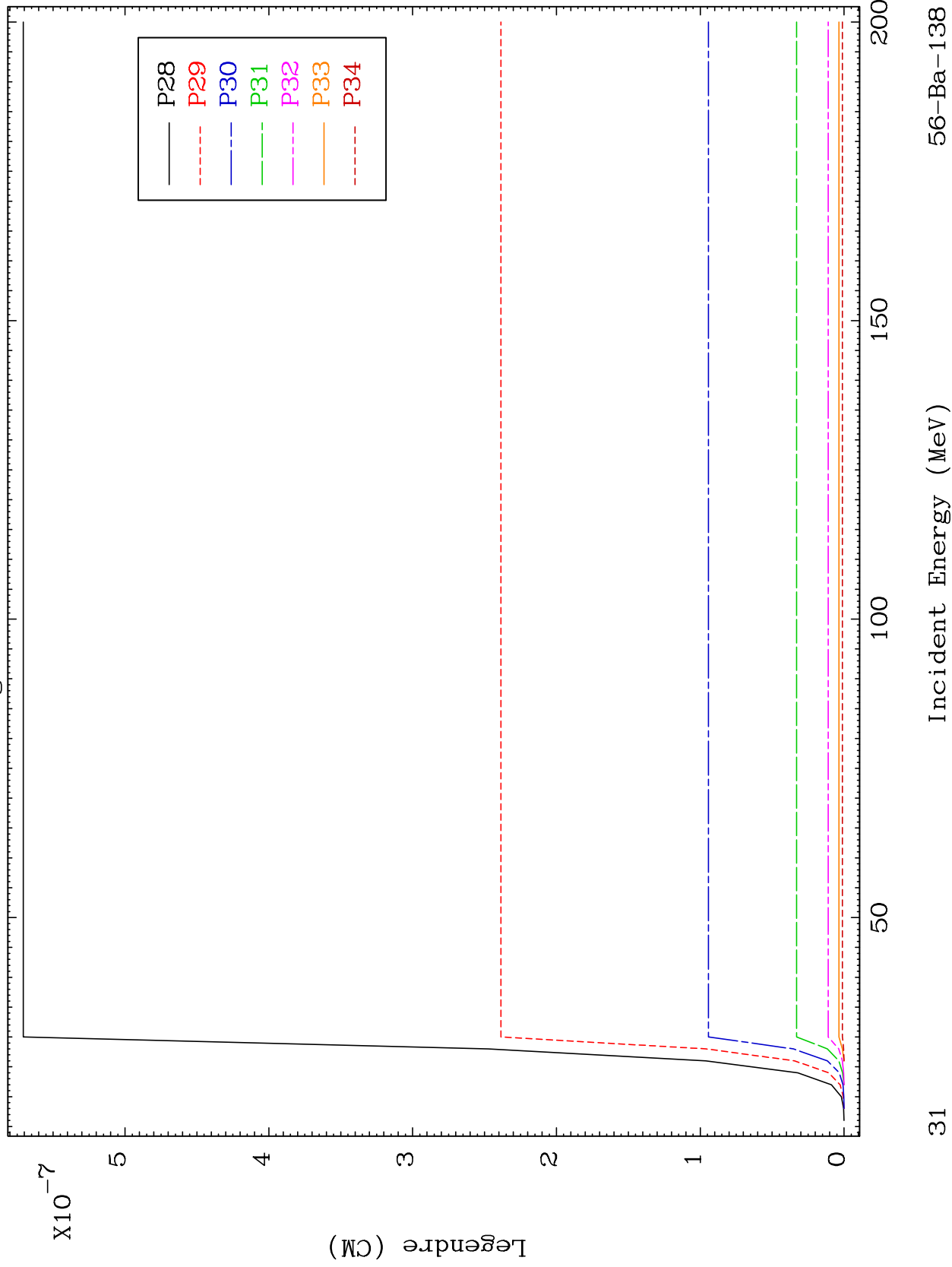
Incident Energy (MeV)

56-Ba-138

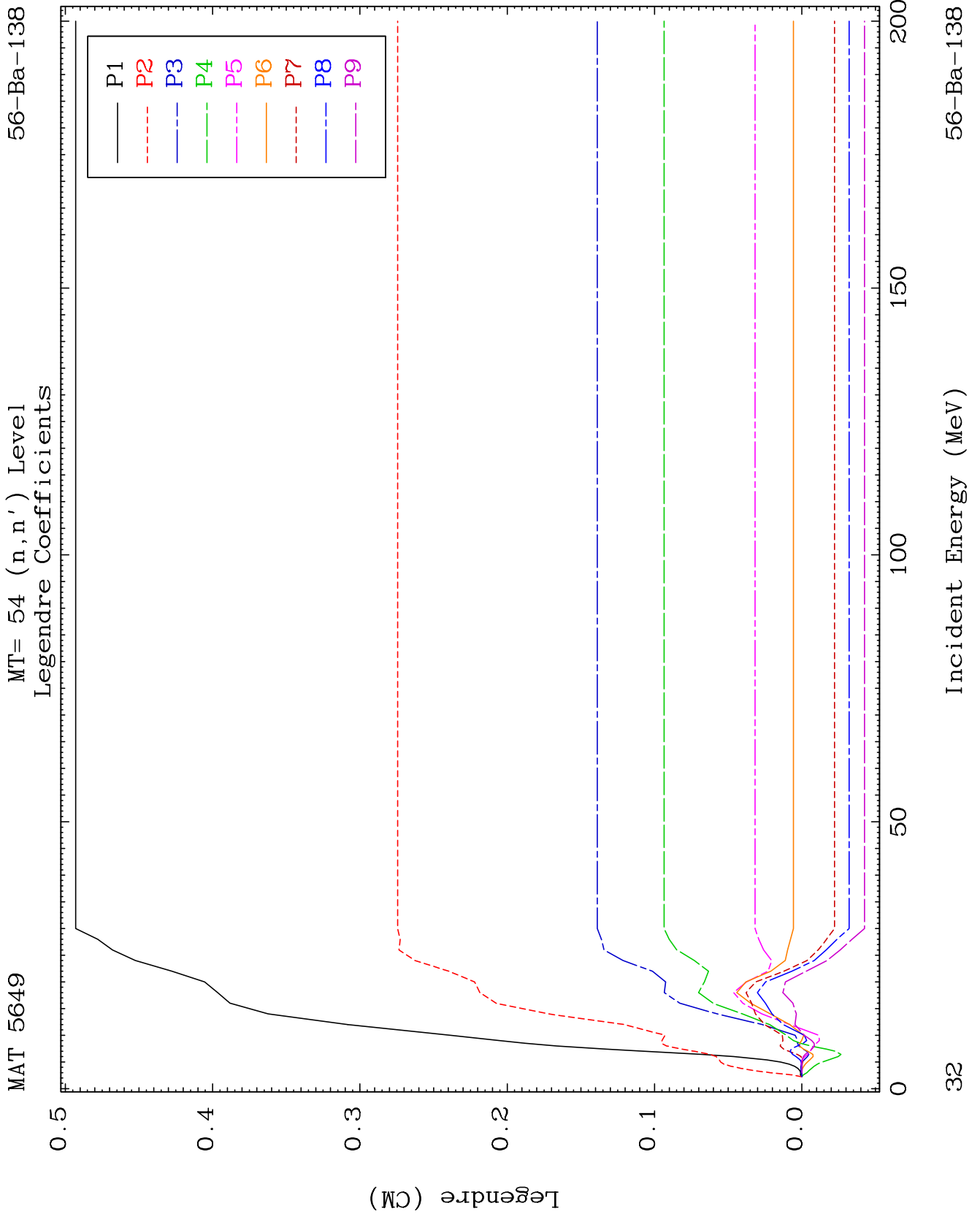
MAT 5649

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

56-Ba-138



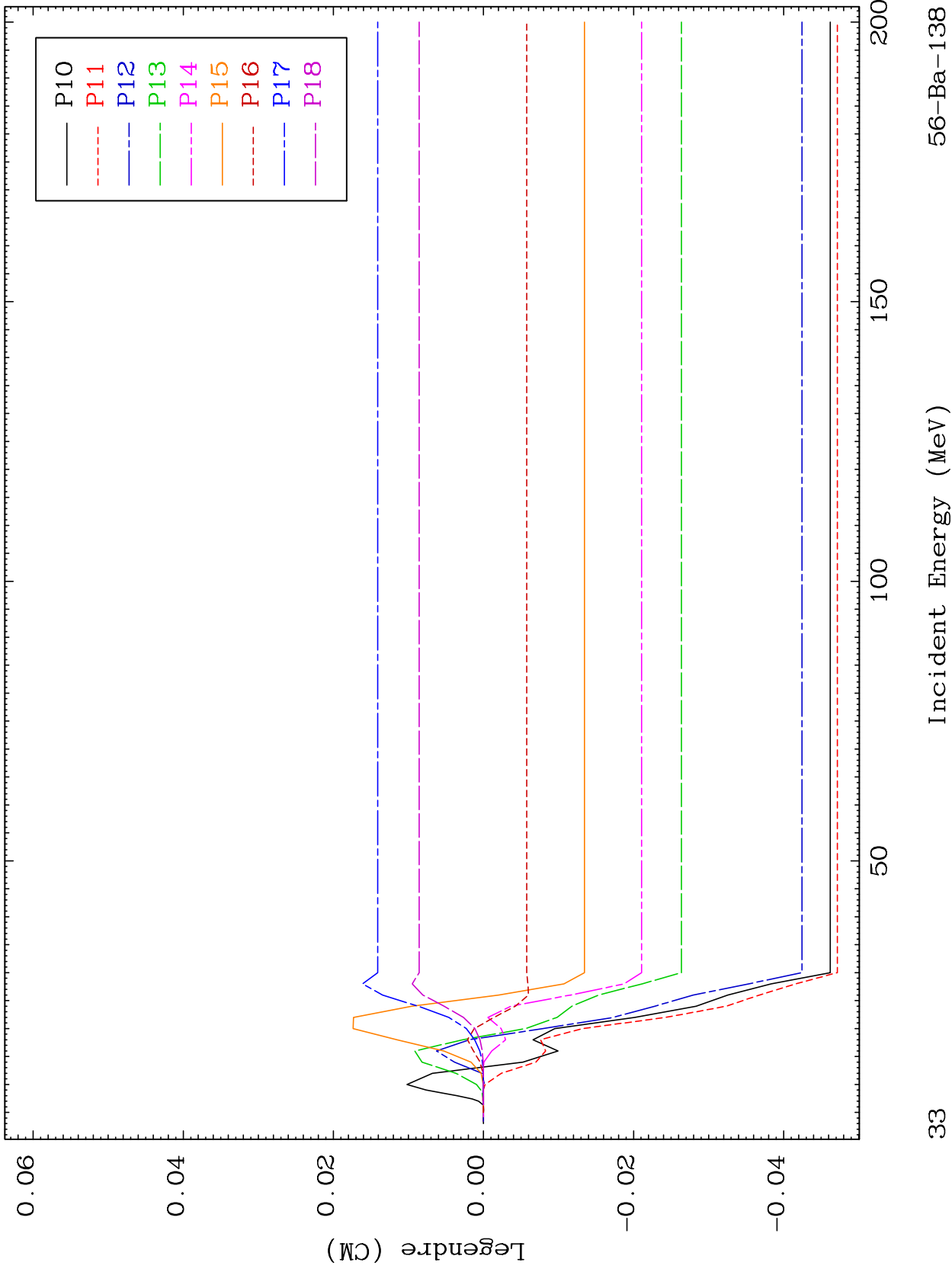




MAT 5649

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

56-Ba-138



33

Incident Energy (MeV)

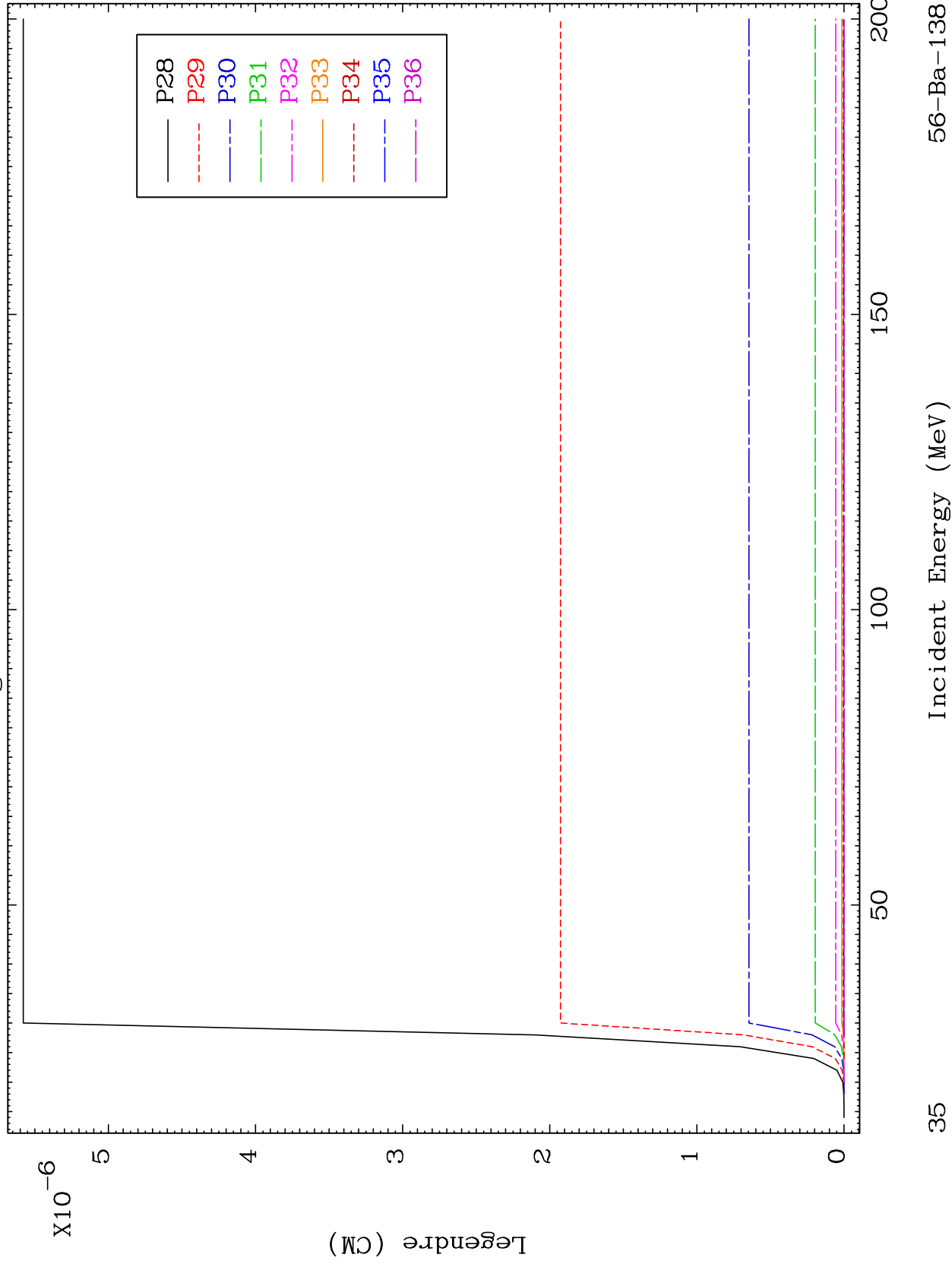
56-Ba-138



MAT 5649

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

56-Ba-138



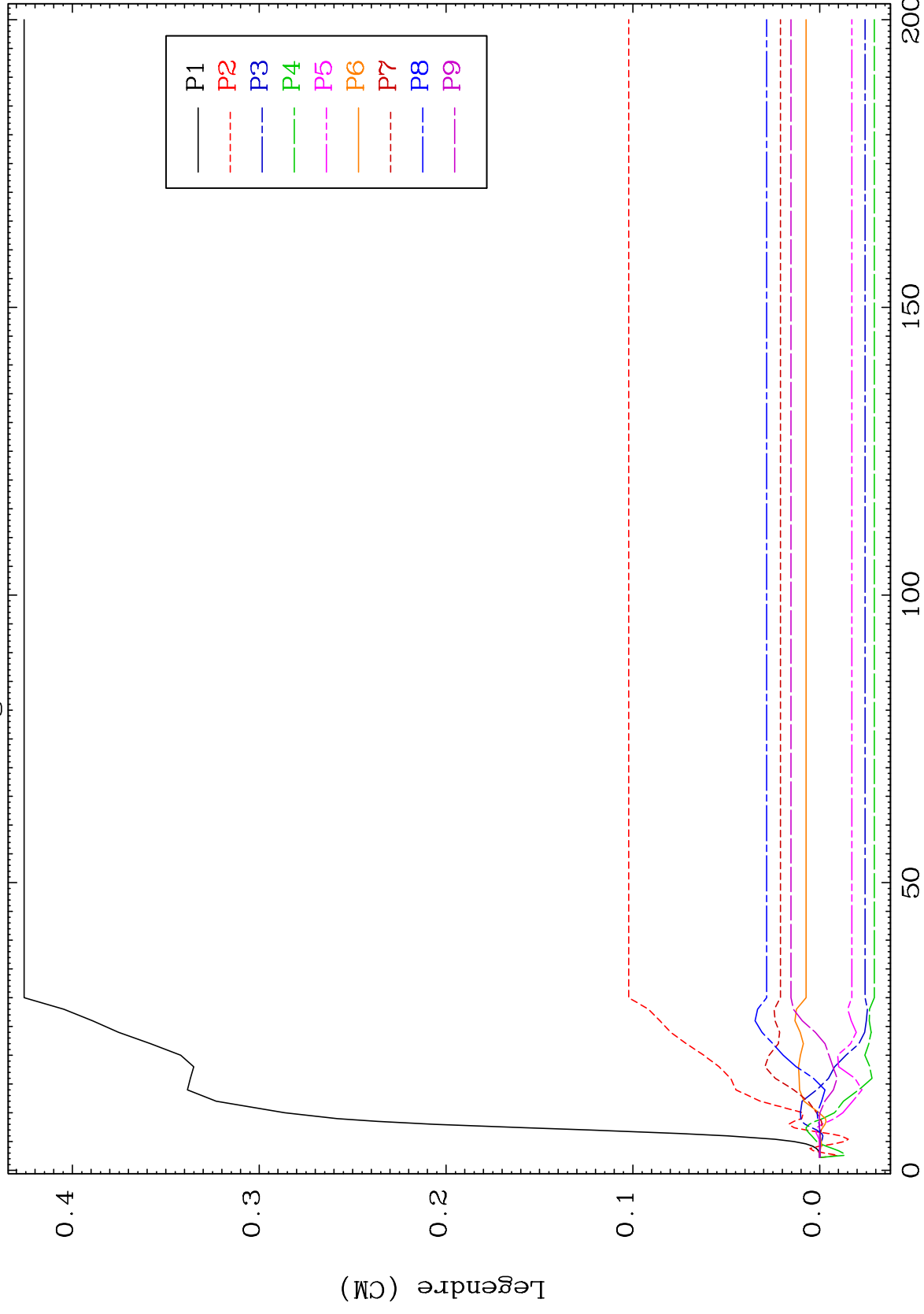
35

200

MAT 5649

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

56-Ba-138



36

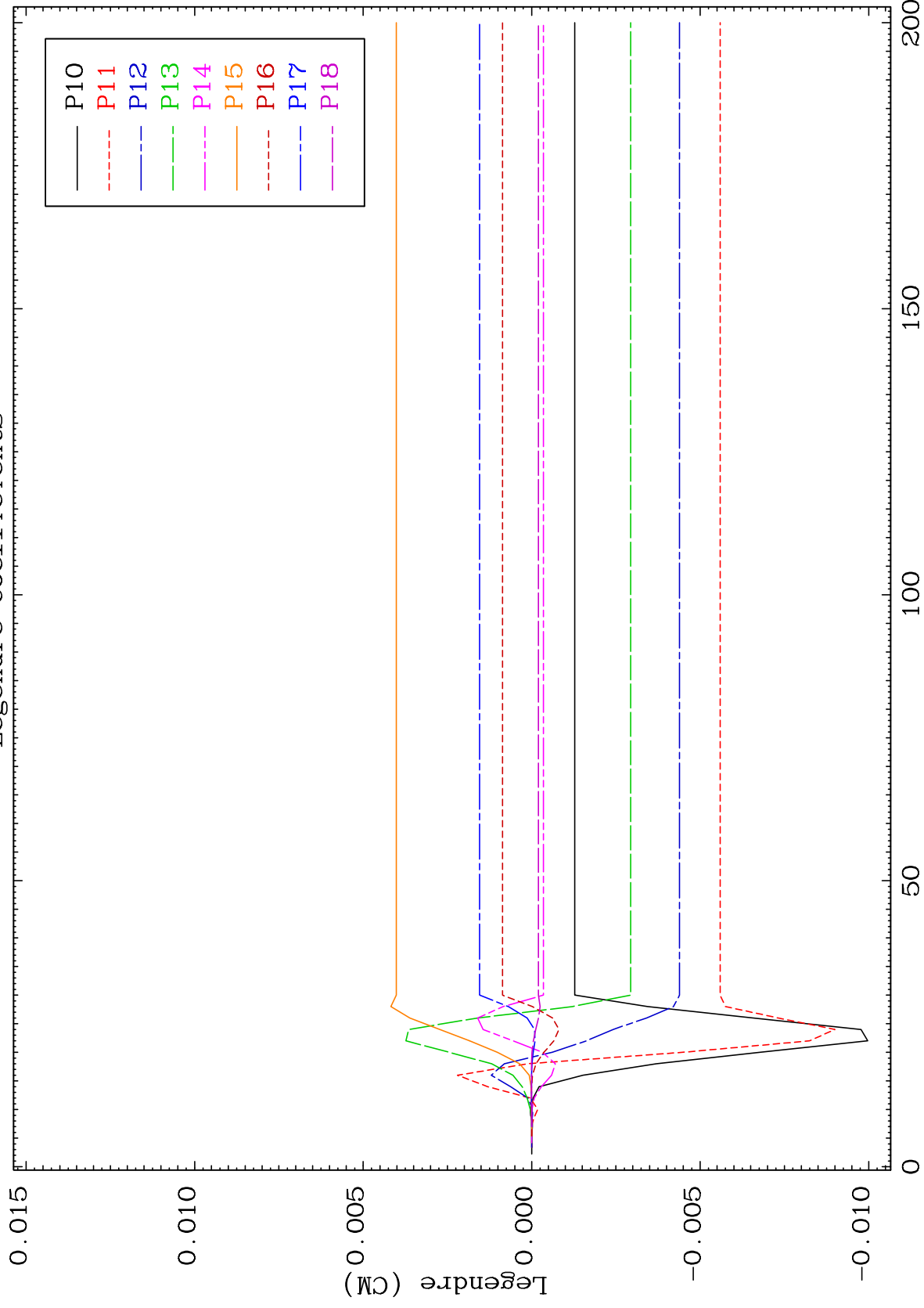
Incident Energy (MeV)

56-Ba-138

MAT 5649

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

56-Ba-138



37

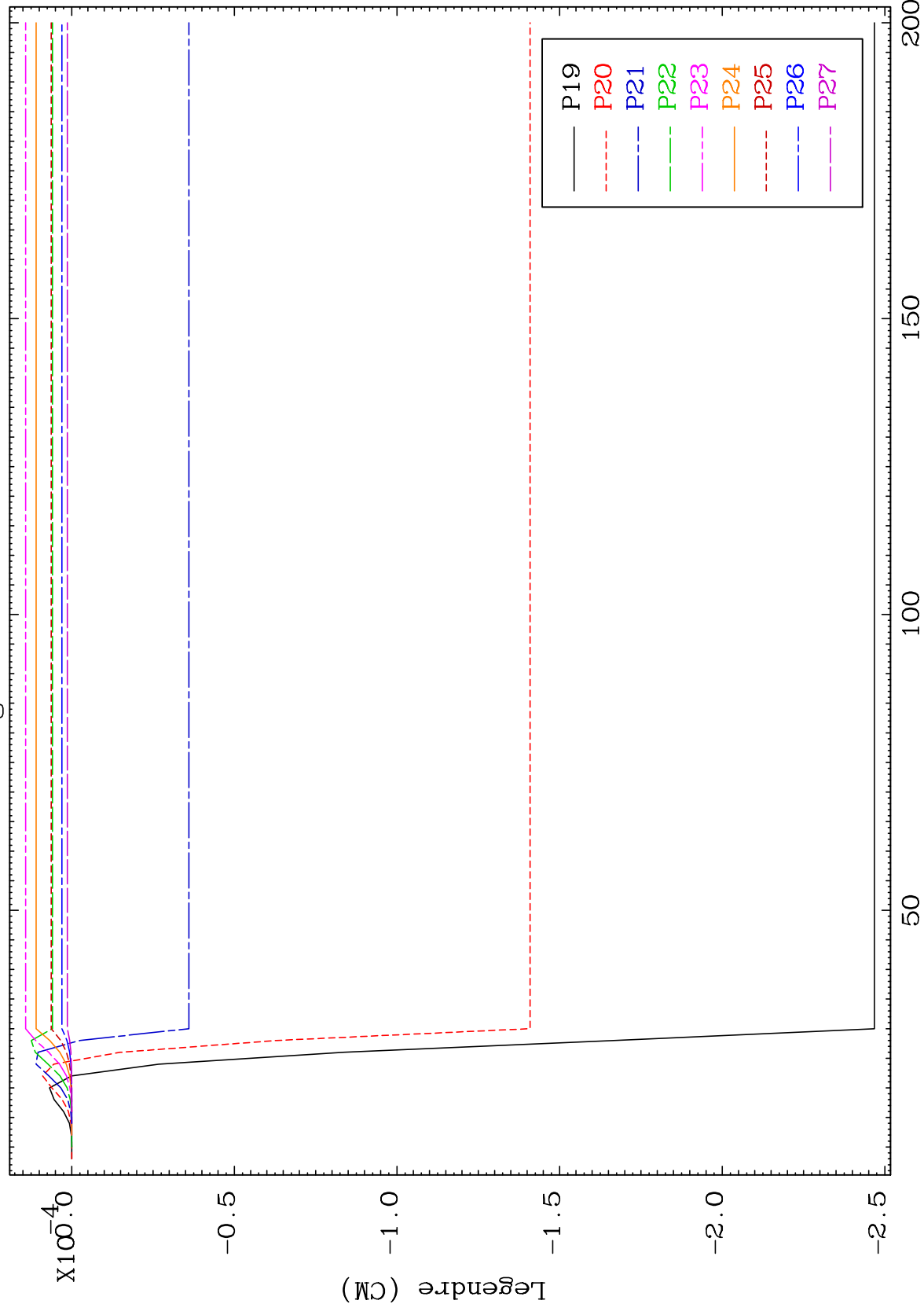
Incident Energy (MeV)

56-Ba-138

MAT 5649

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

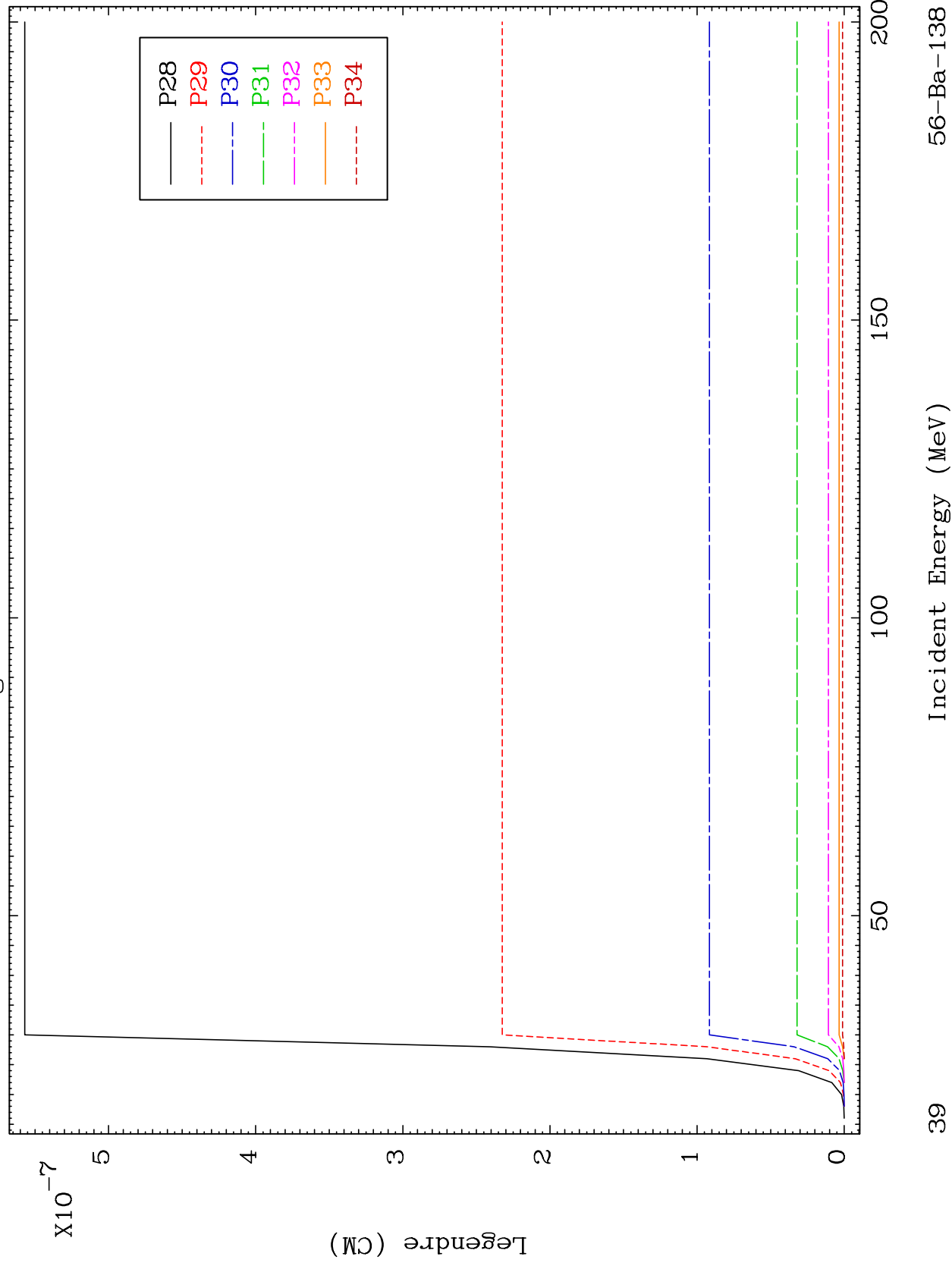
56-Ba-138



MAT 5649

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

56-Ba-138

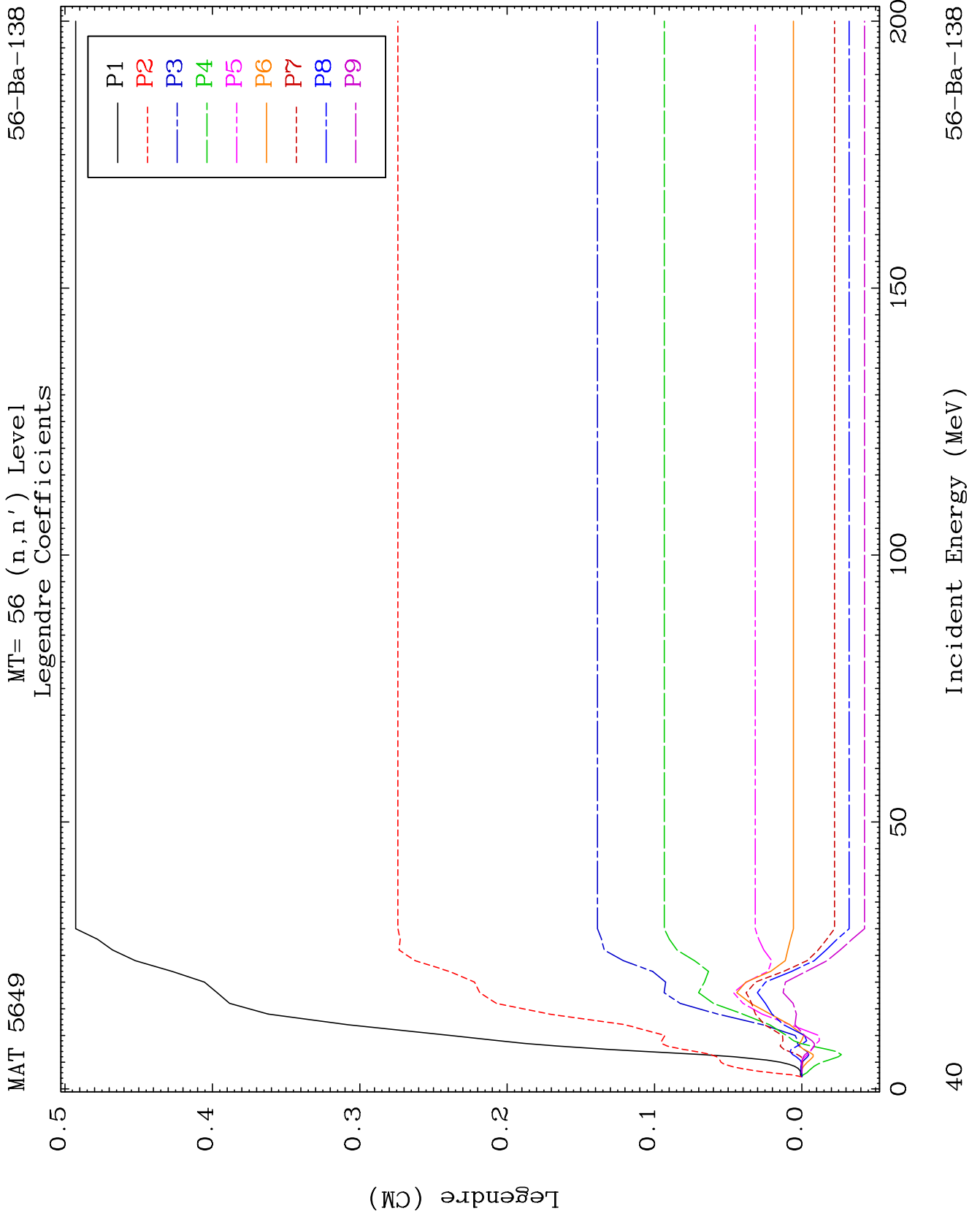


39

Incident Energy (MeV)

56-Ba-138

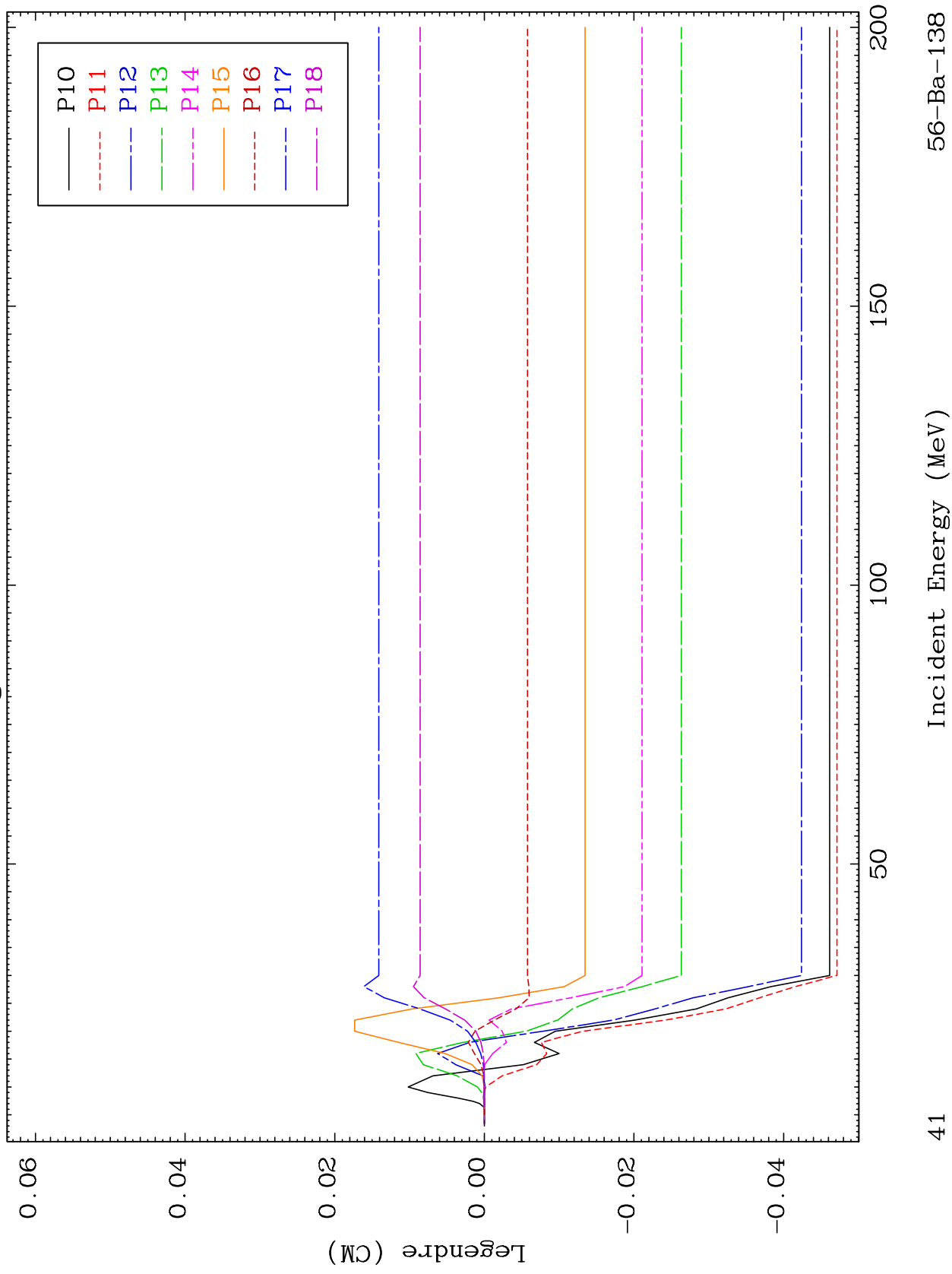




MAT 5649

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

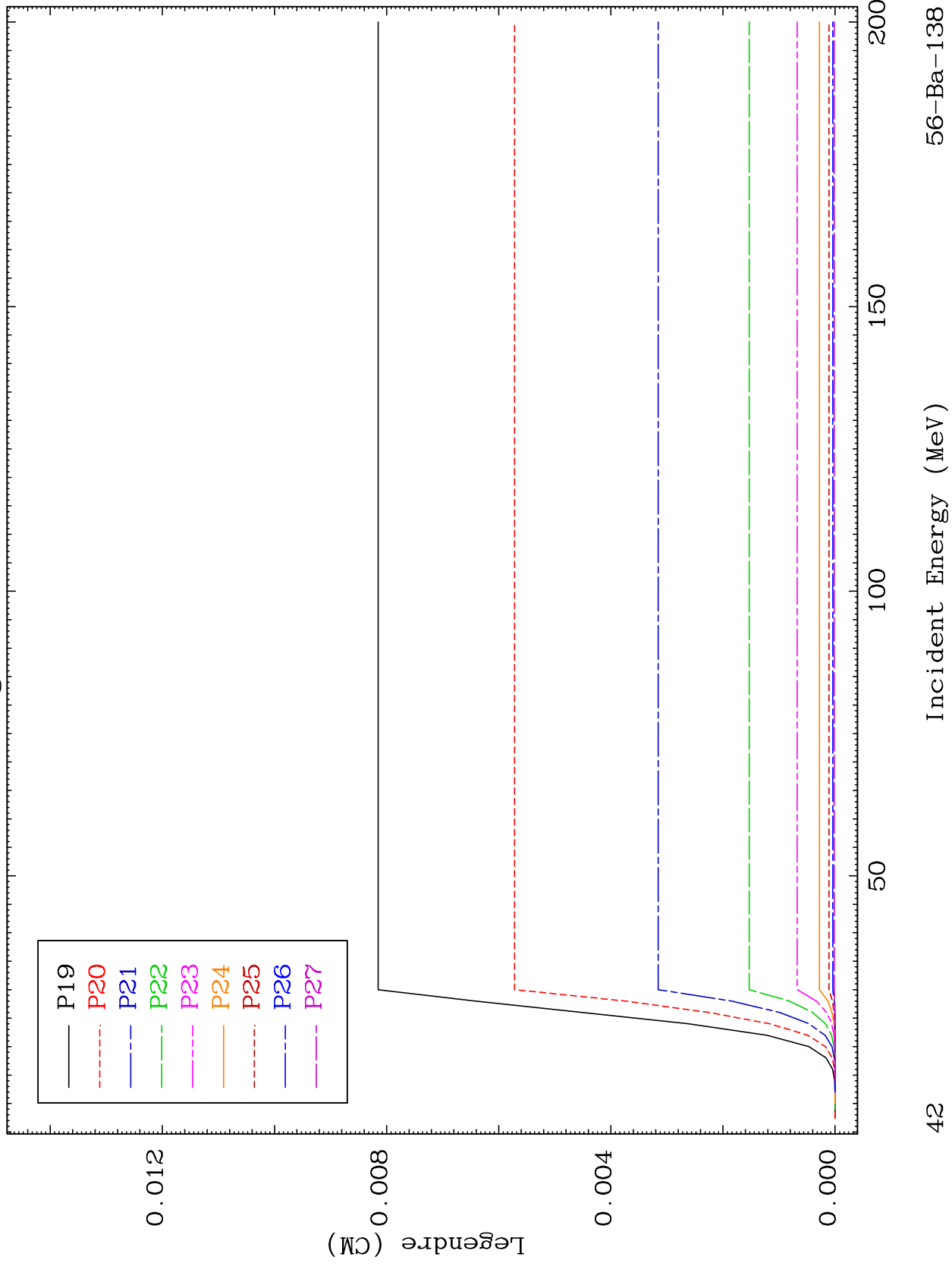
56-Ba-138



MAT 5649

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

56-Ba-138



42

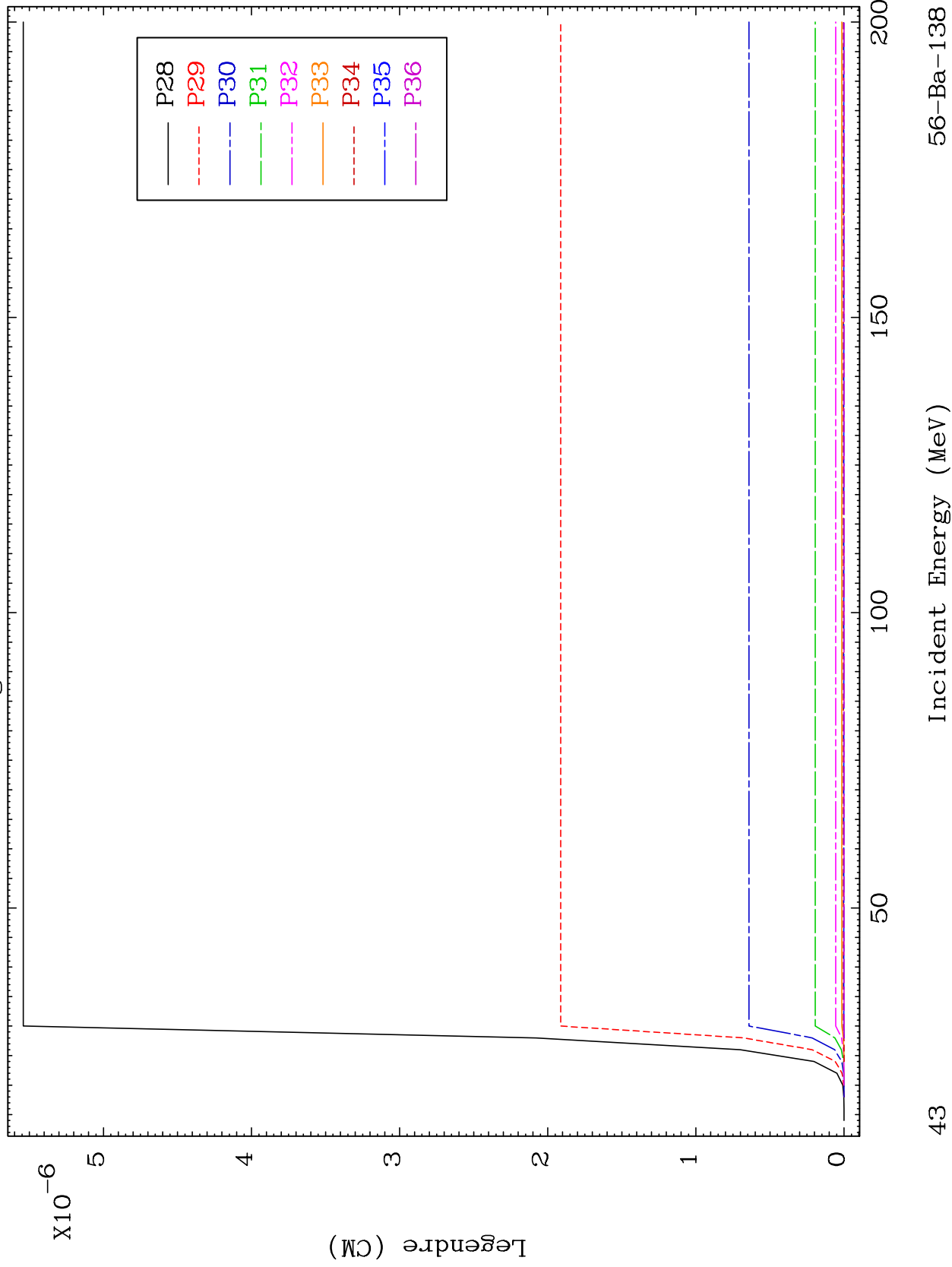
Incident Energy (MeV)

56-Ba-138

MAT 5649

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

56-Ba-138



43

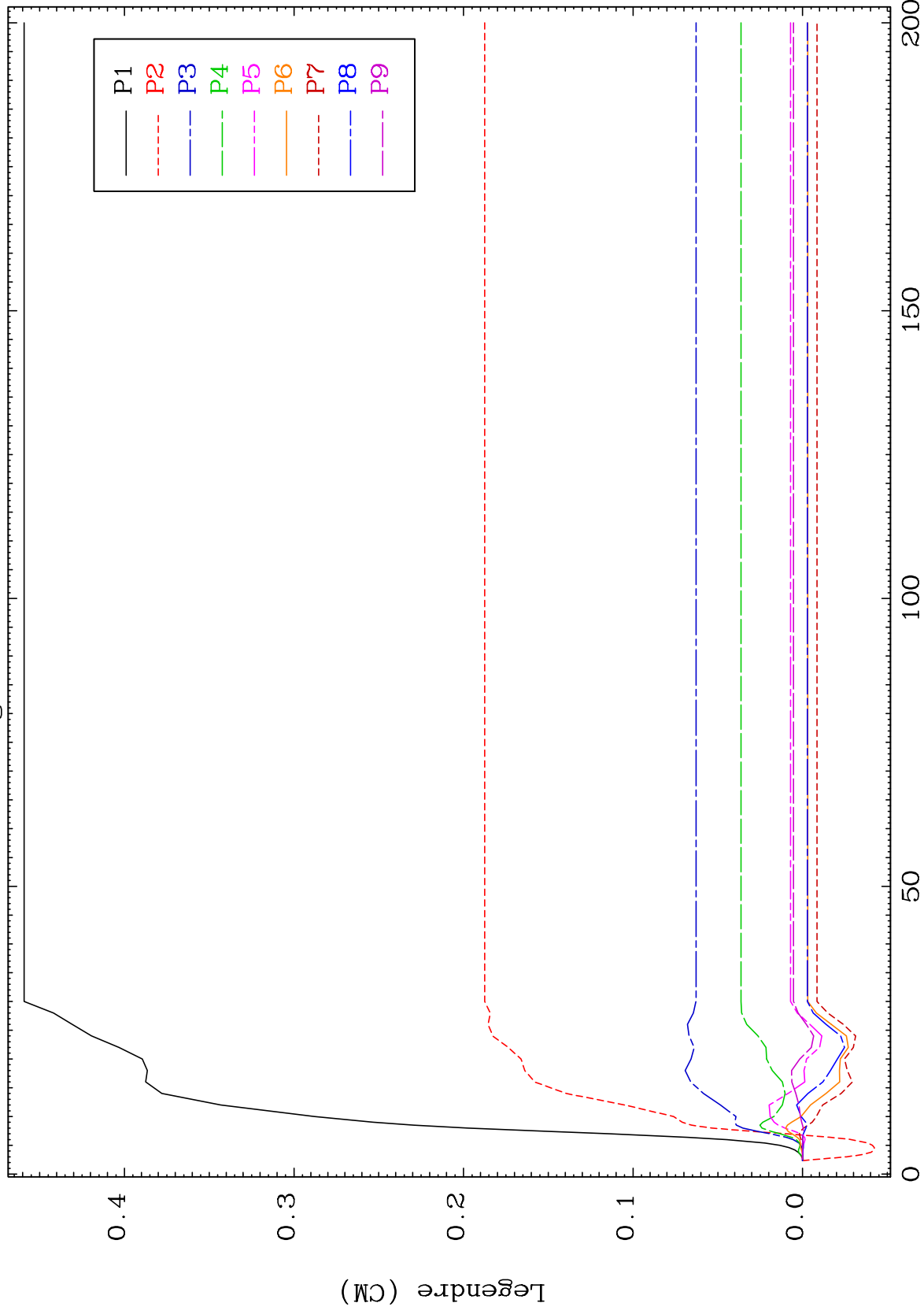
Incident Energy (MeV)

56-Ba-138

MAT 5649

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

56-Ba-138



44

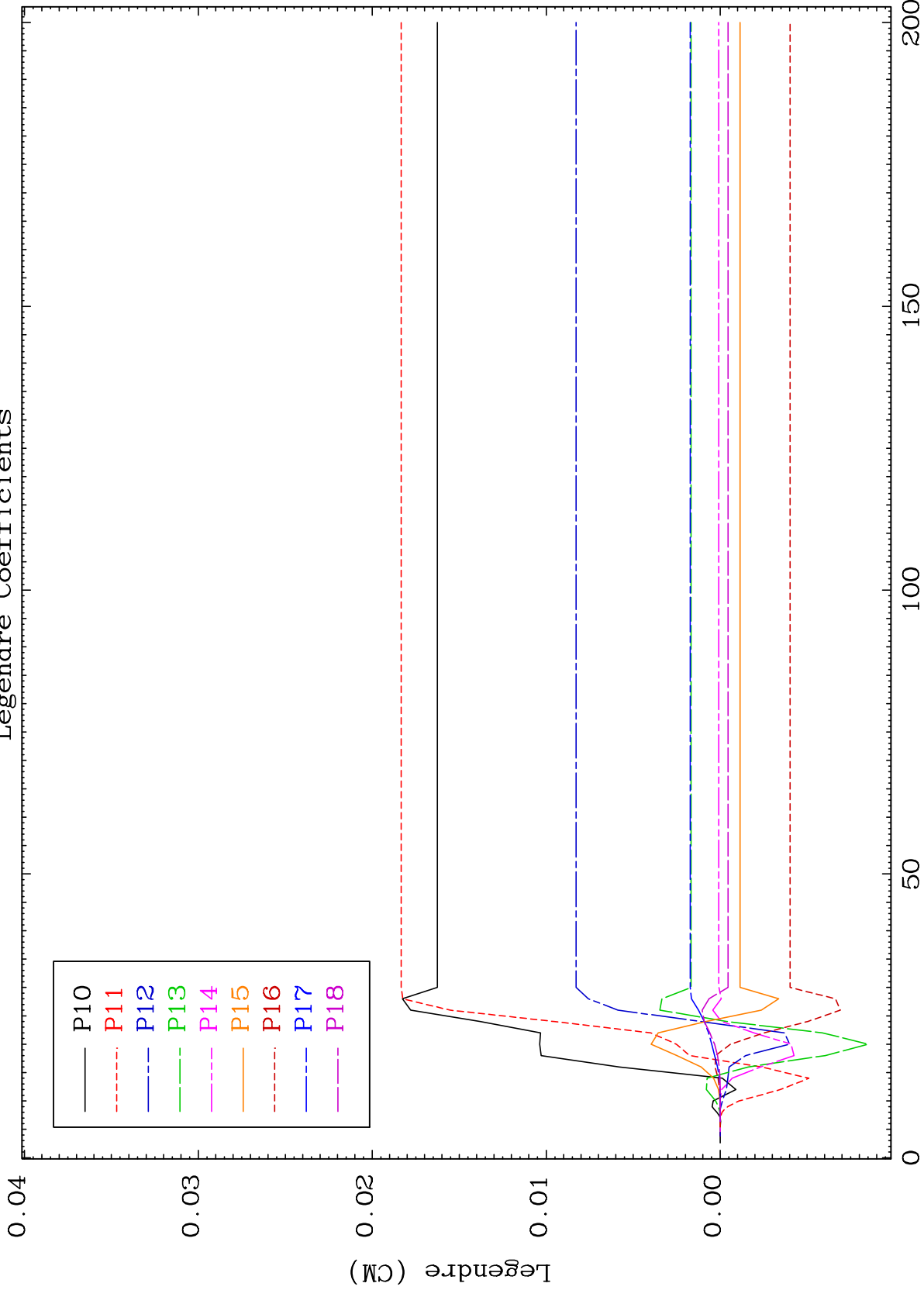
Incident Energy (MeV)

56-Ba-138

MAT 5649

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

56-Ba-138



45

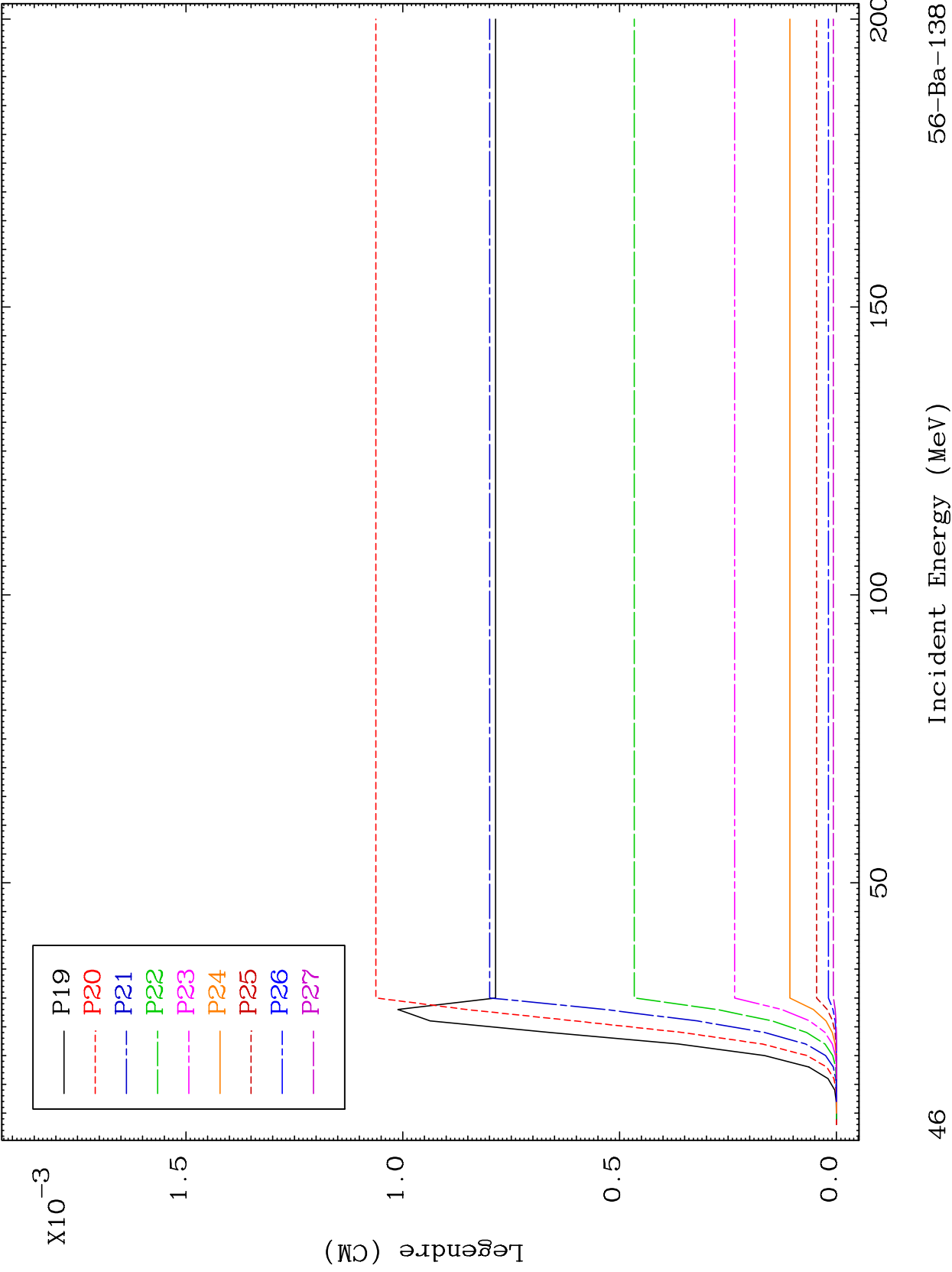
Incident Energy (MeV)

56-Ba-138

MAT 5649

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

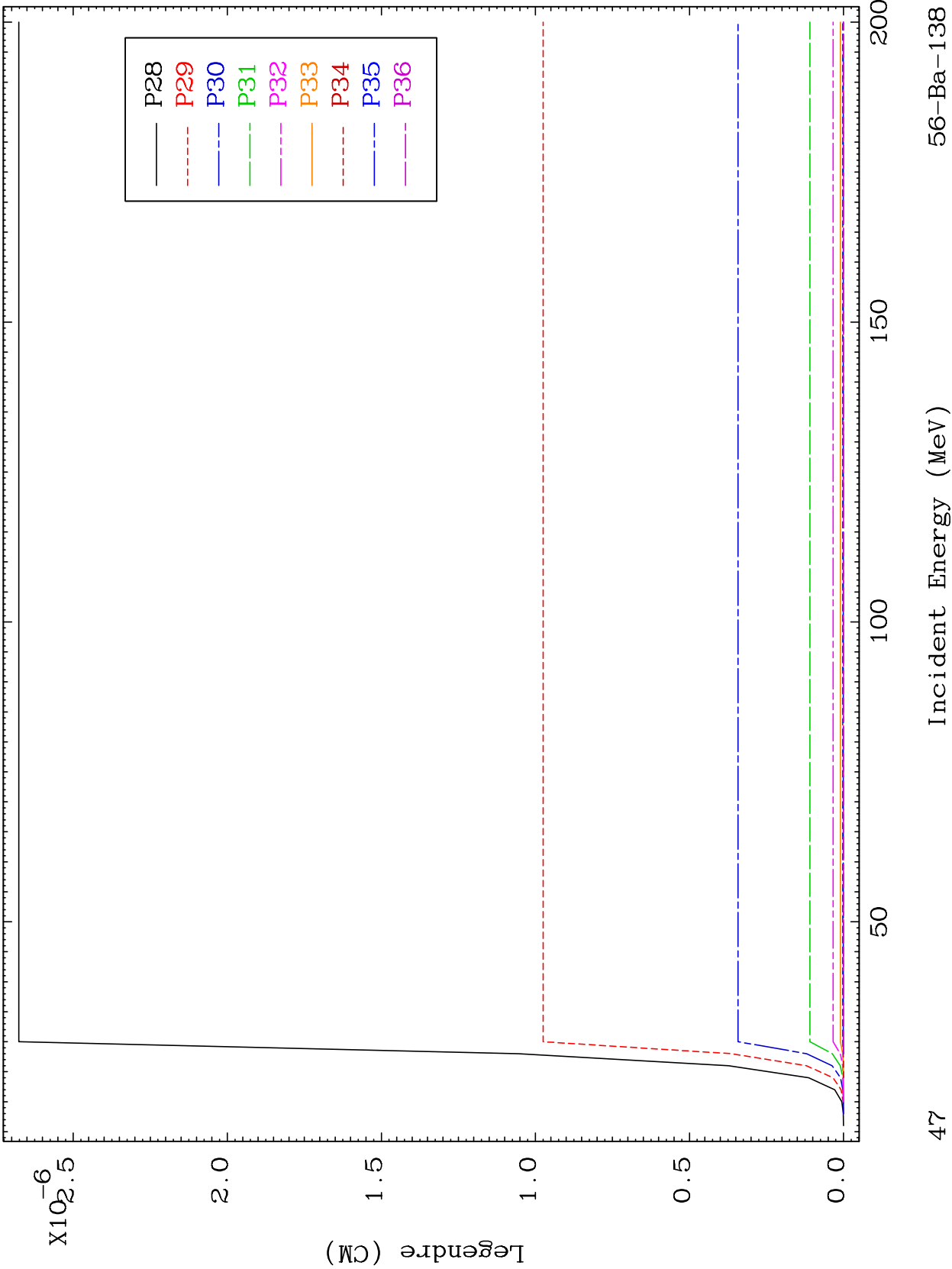
56-Ba-138



MAT 5649

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

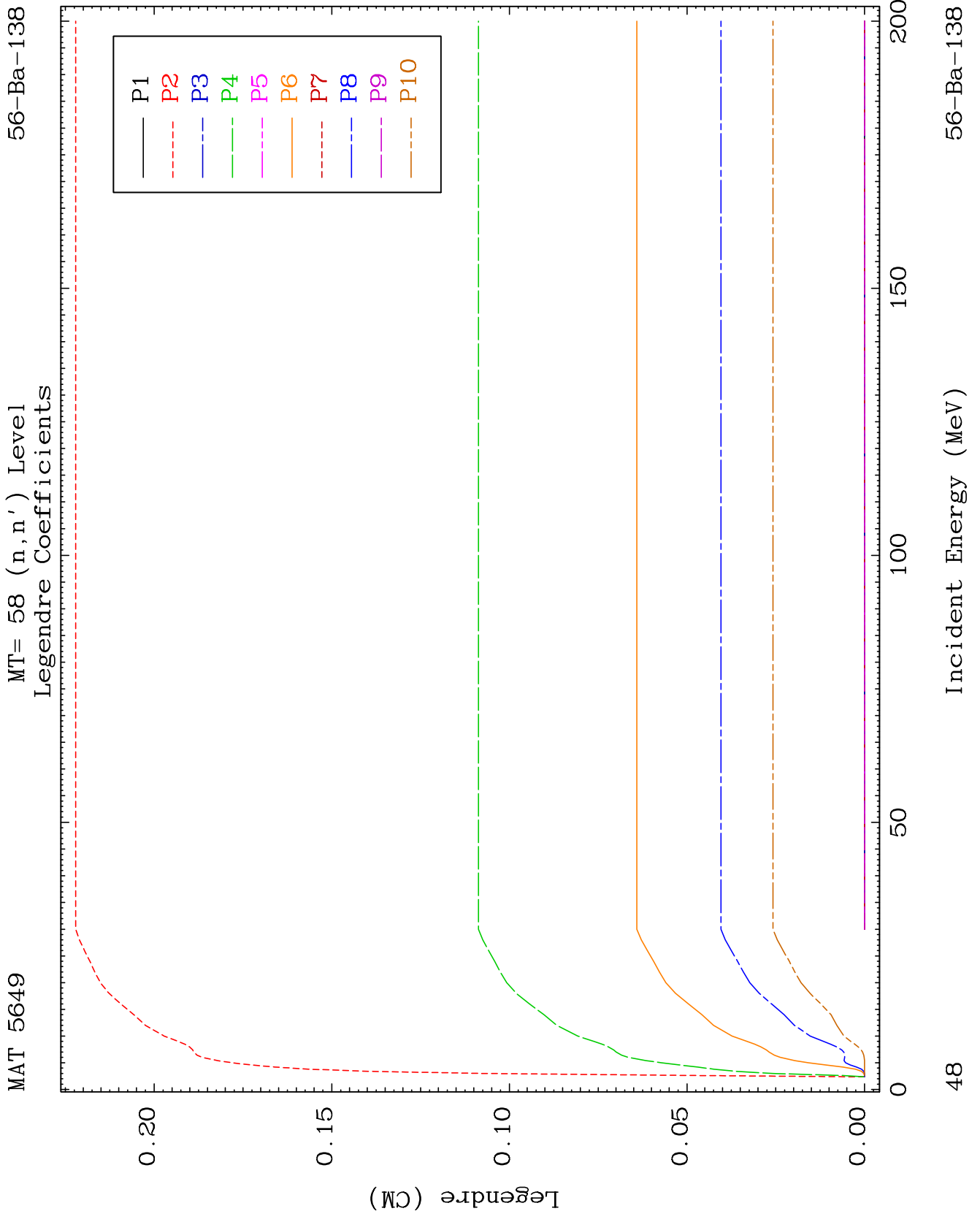
56-Ba-138

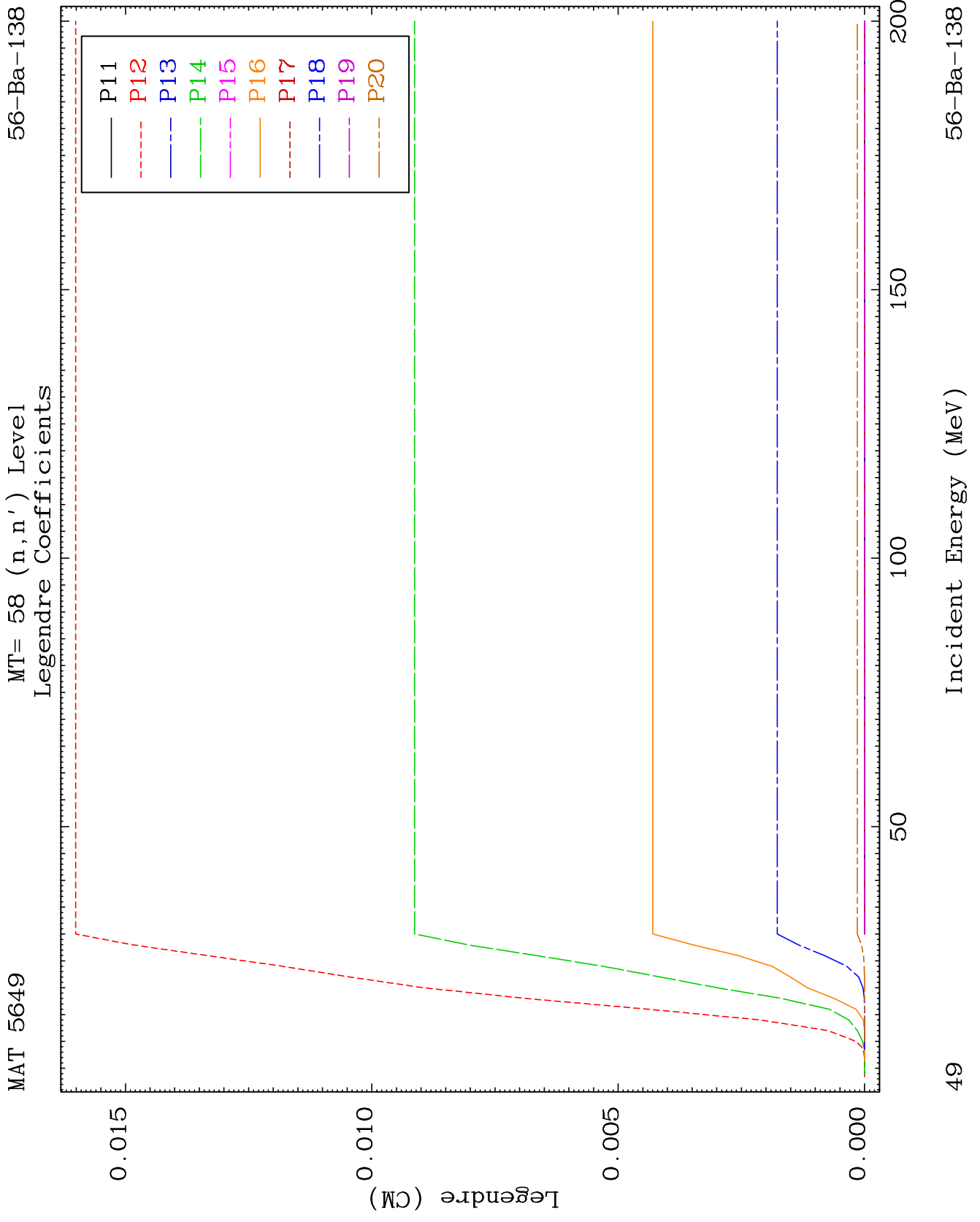


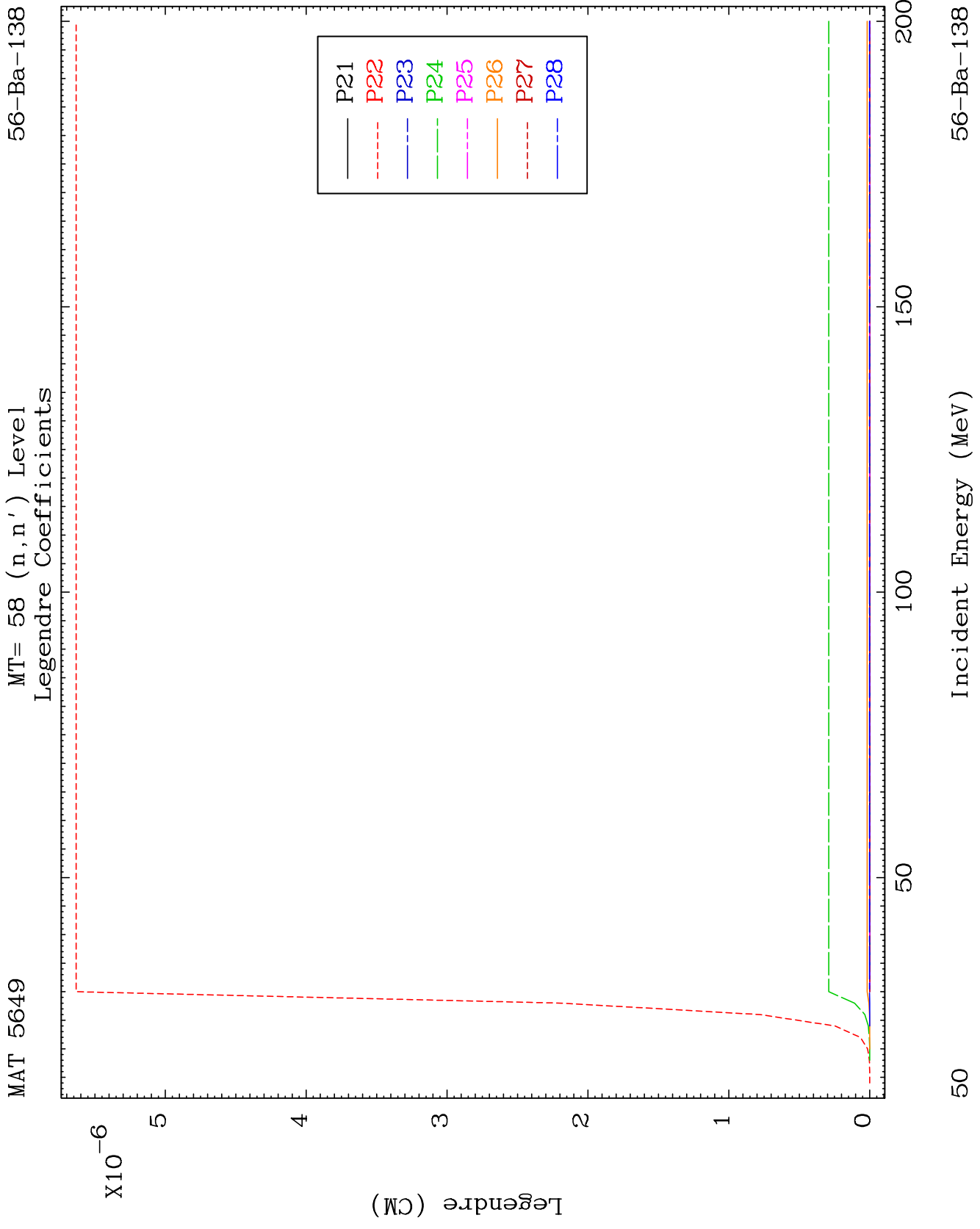
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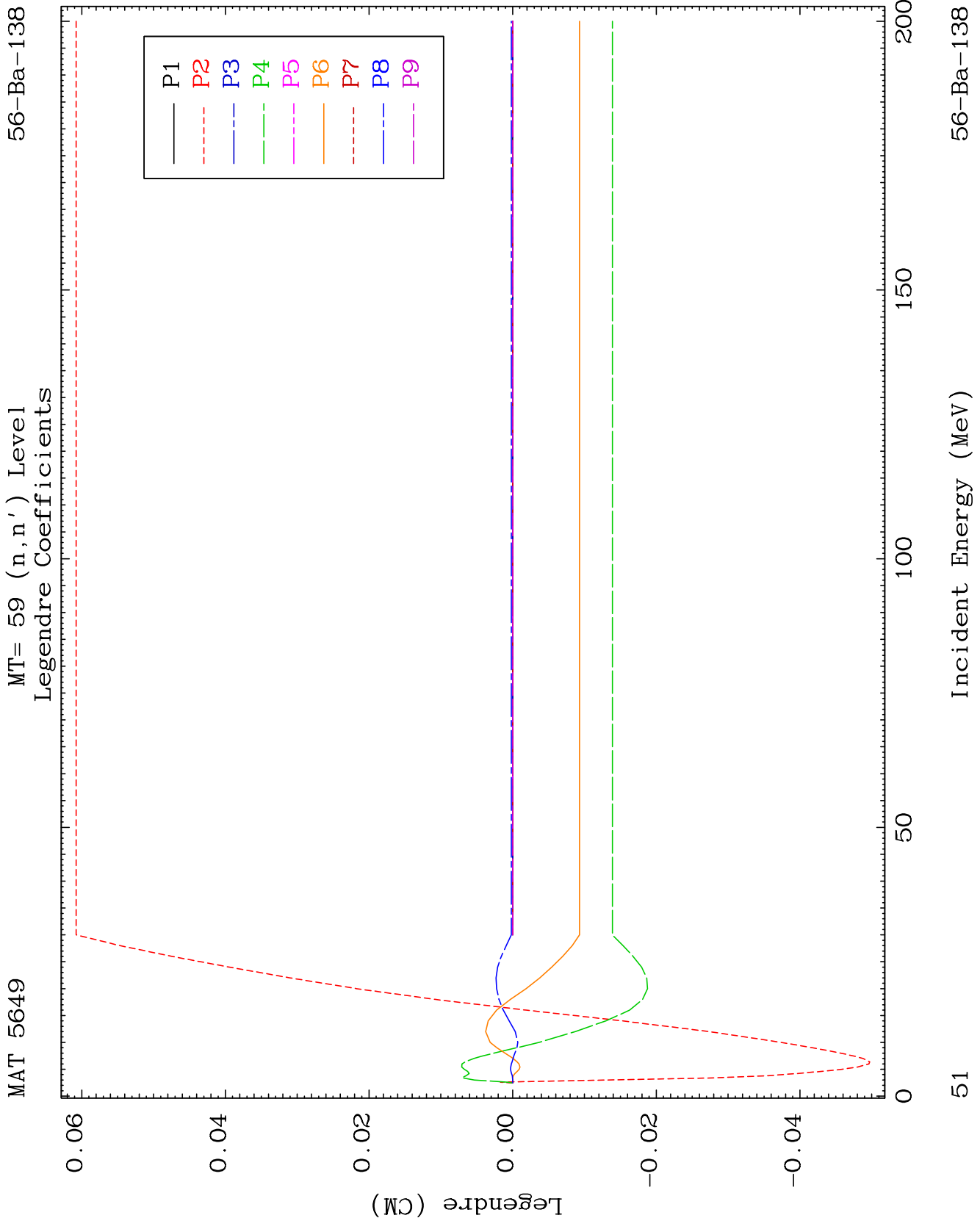
56-Ba-138







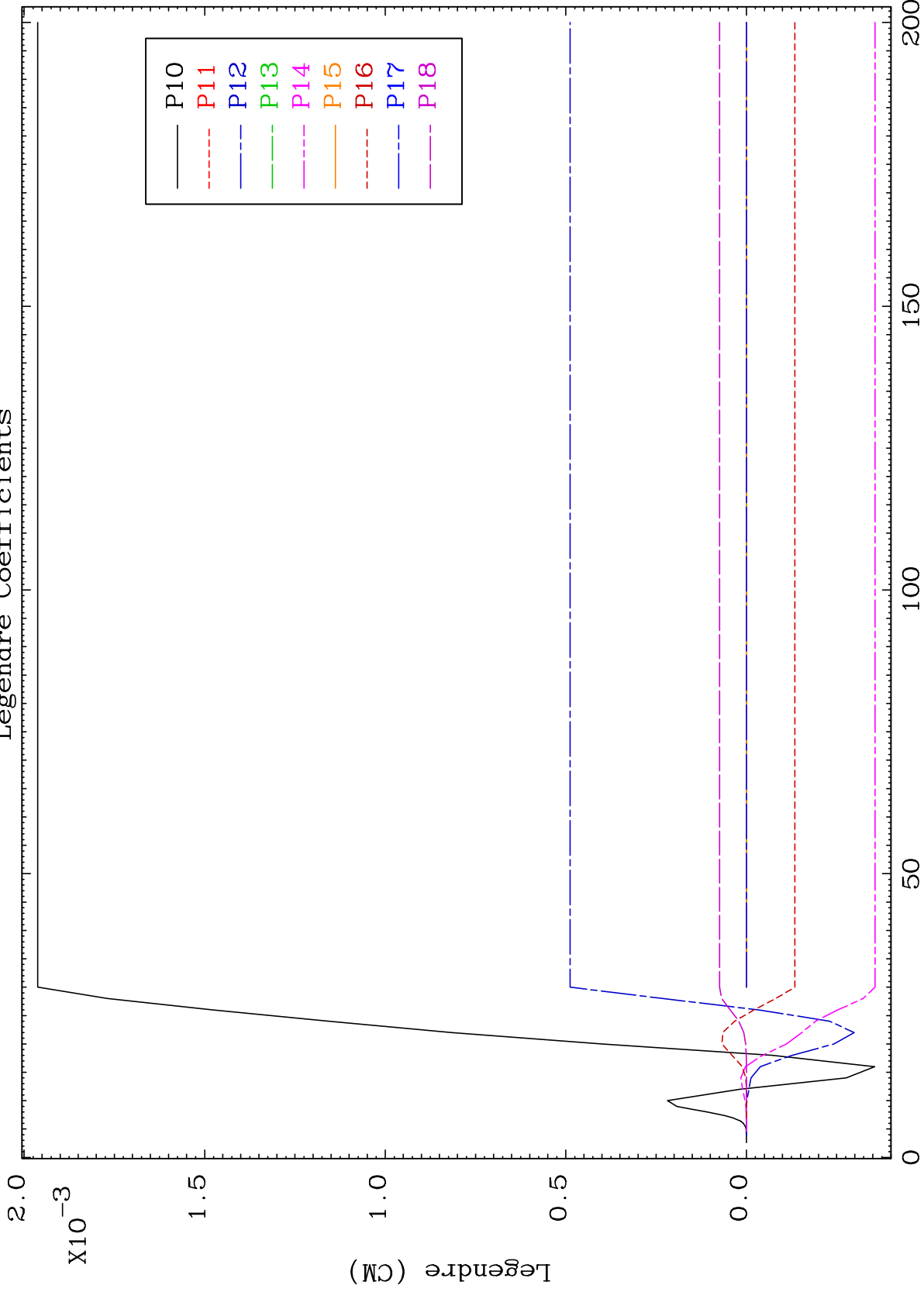




MAT 5649

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

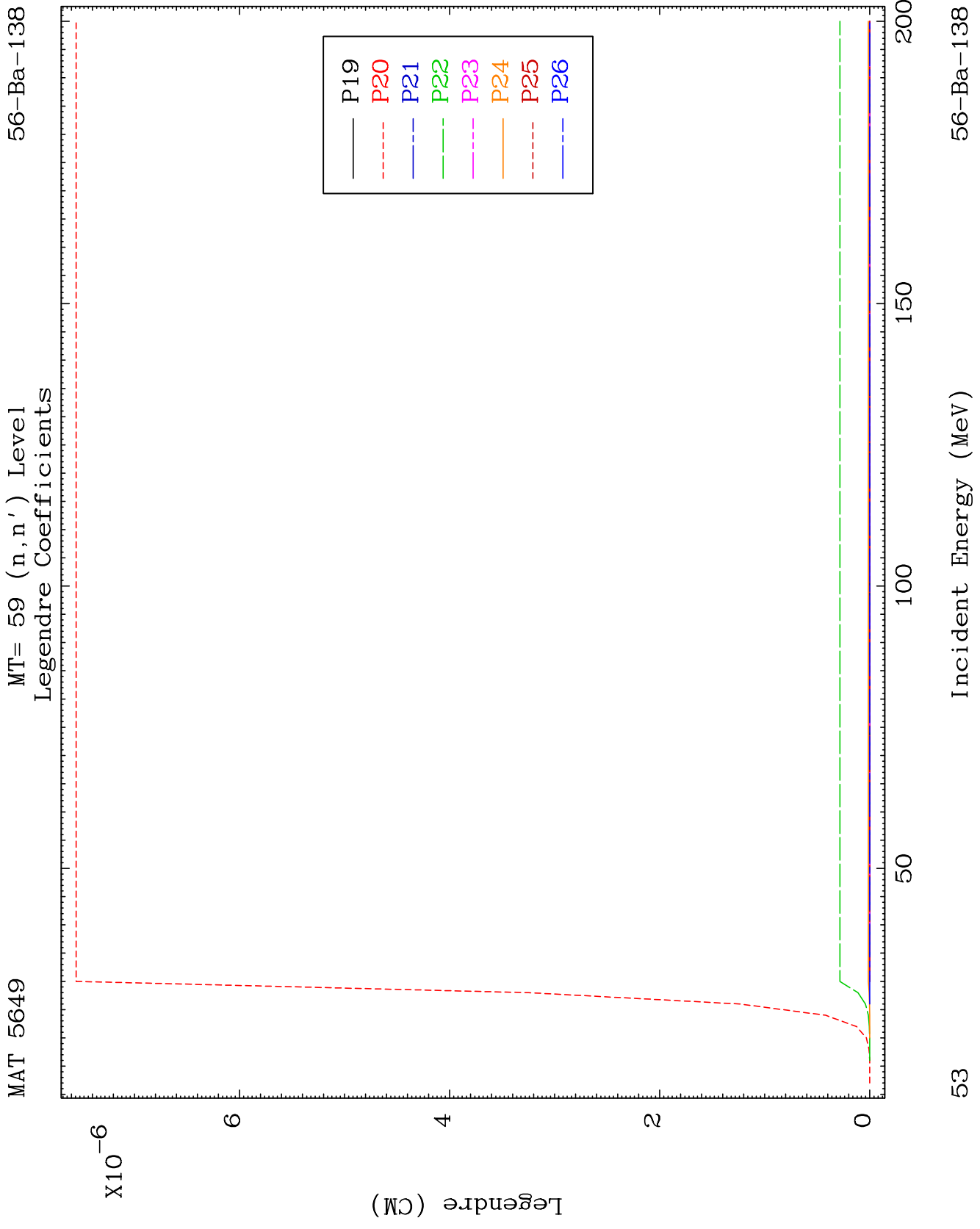
56-Ba-138

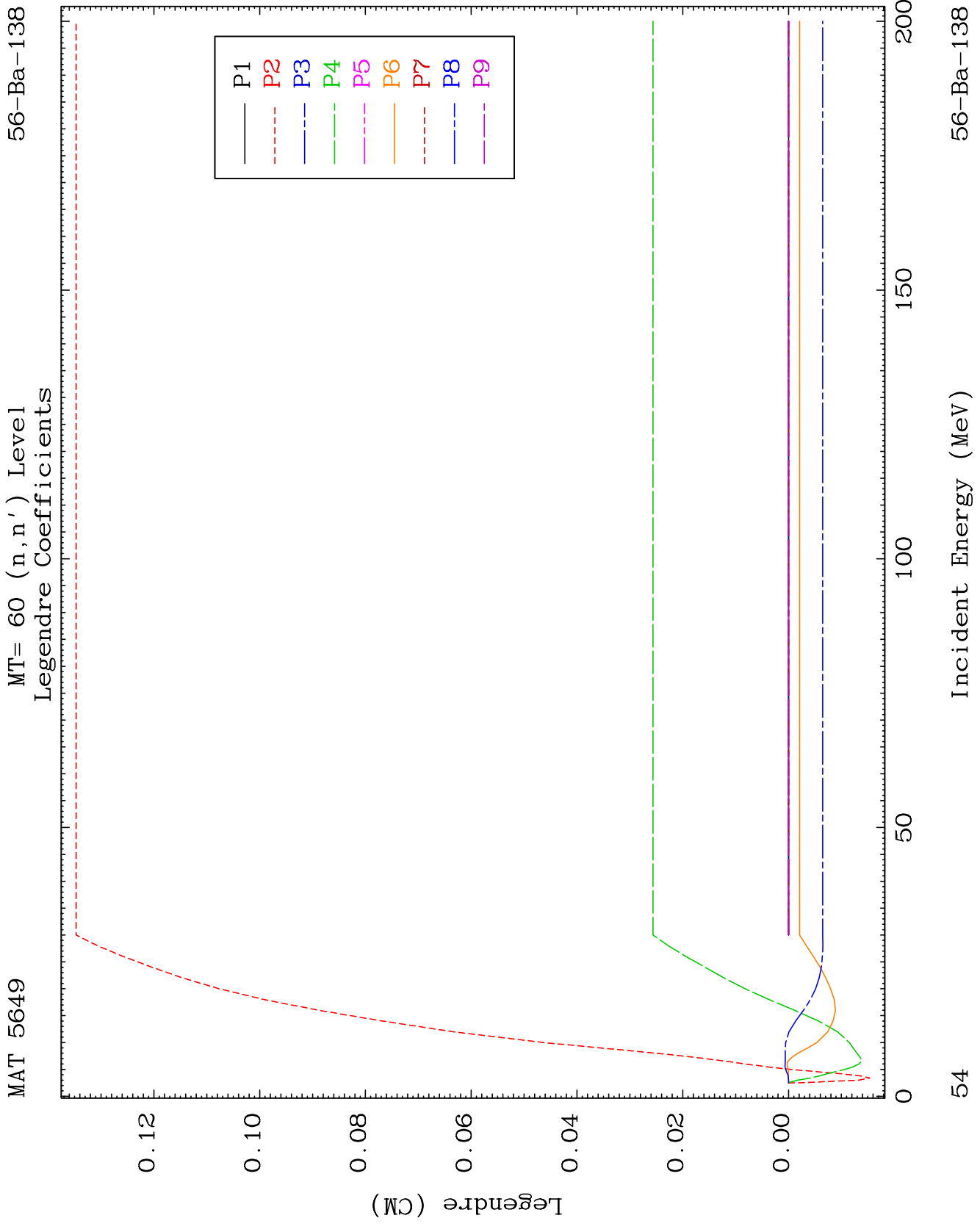


52

Incident Energy (MeV)

56-Ba-138

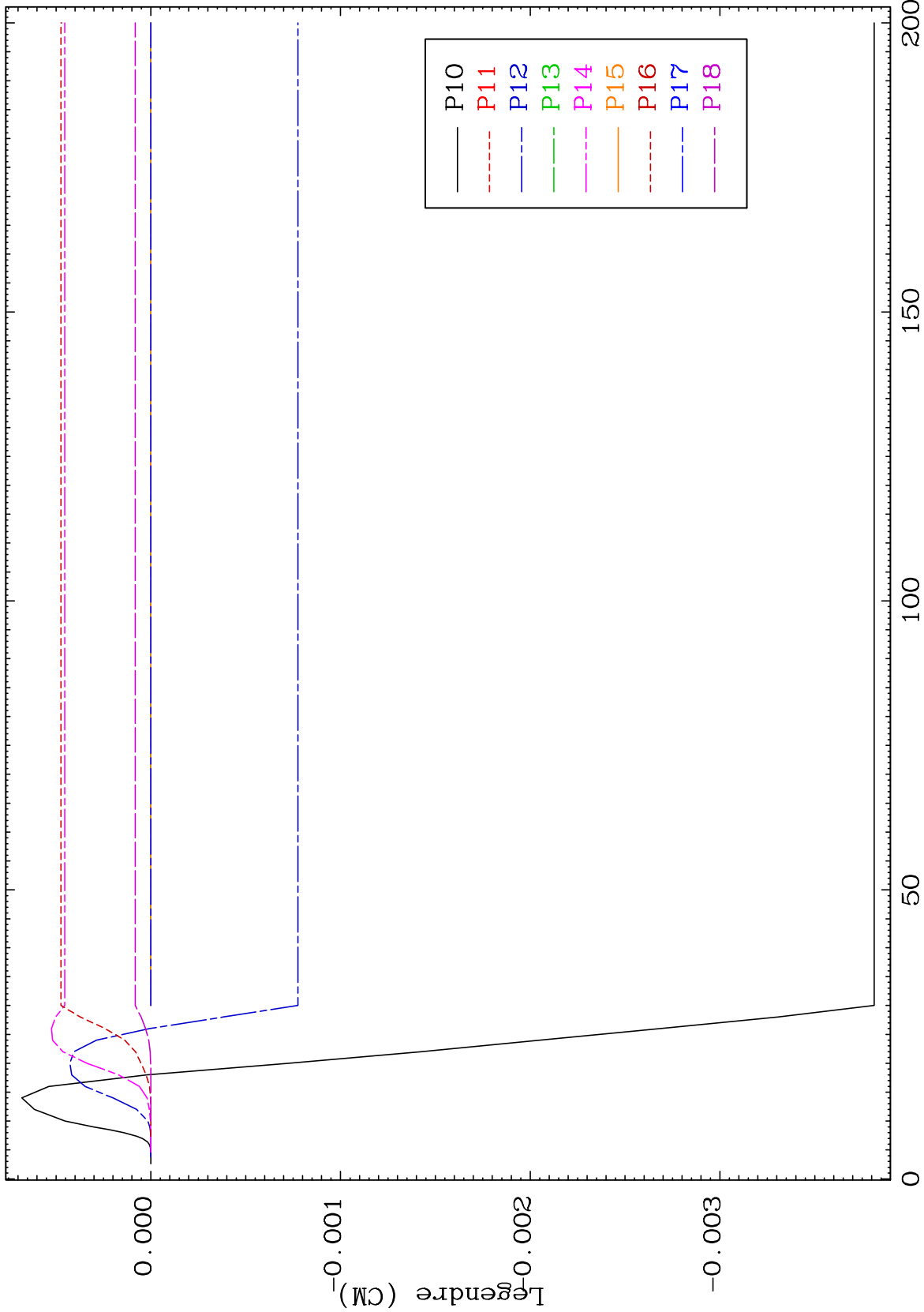




MAT 5649

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

56-Ba-138



55

Incident Energy (MeV)

56-Ba-138

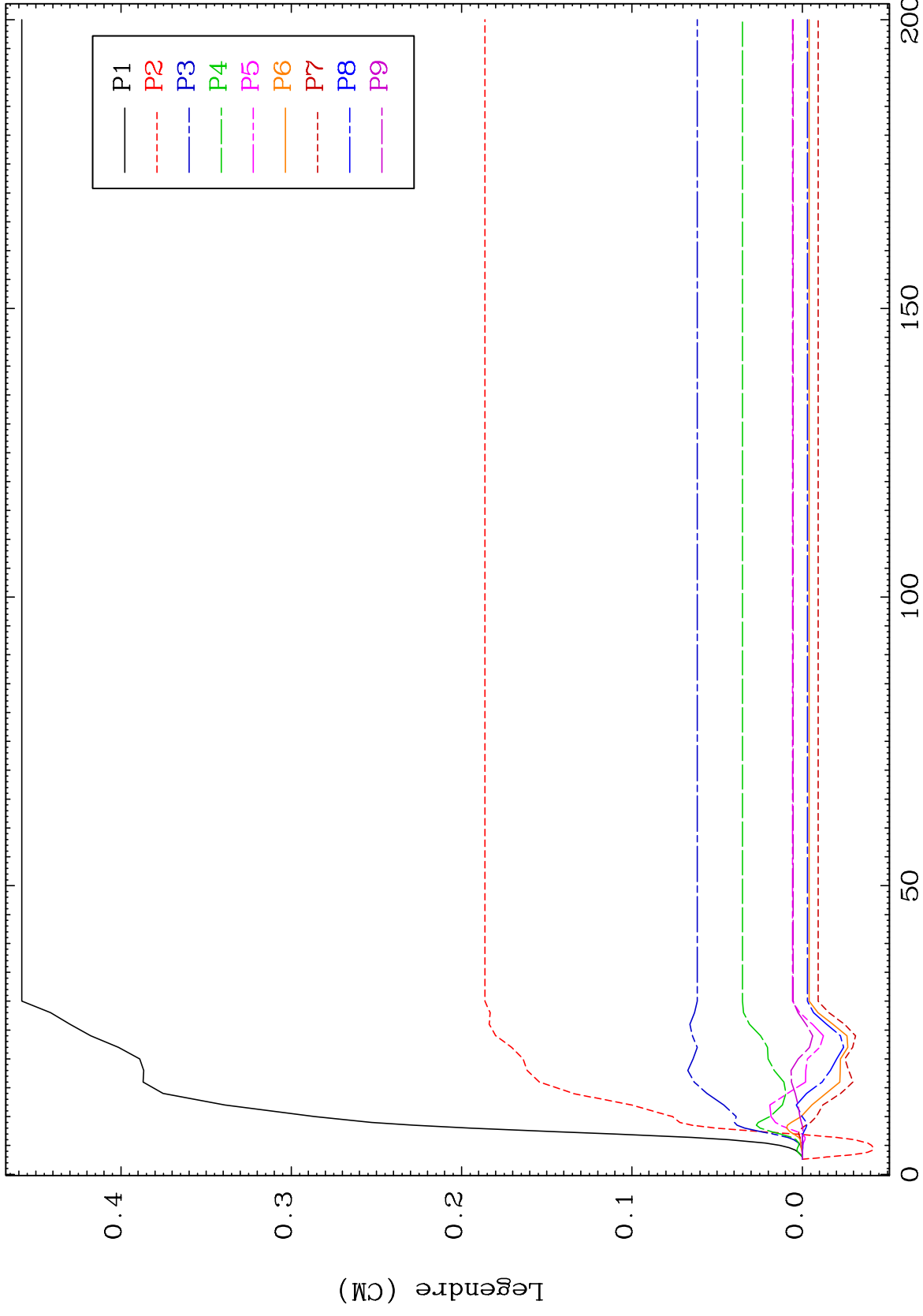




MAT 5649

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

56-Ba-138



57

Incident Energy (MeV)

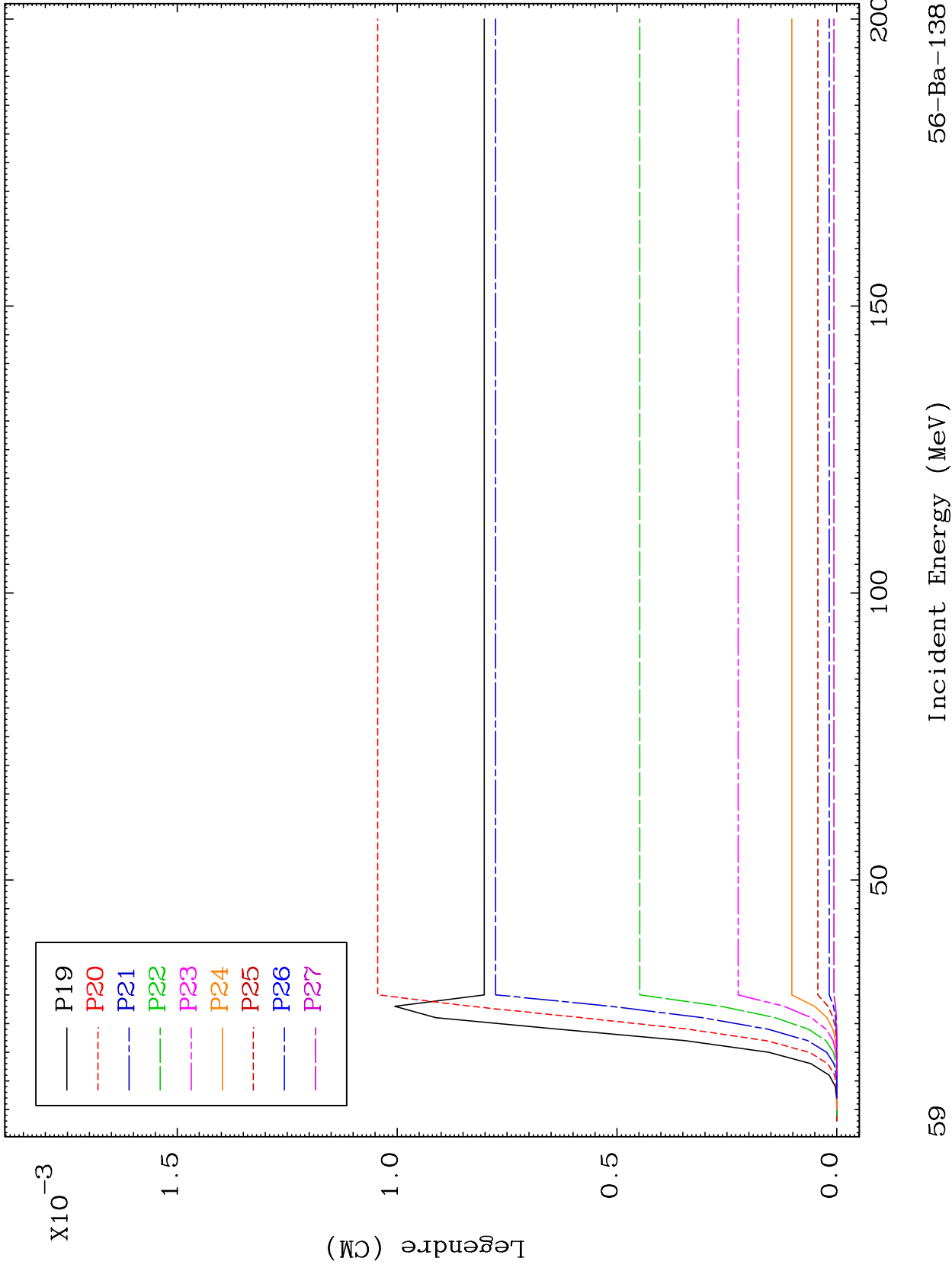
56-Ba-138



MAT 5649

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

56-Ba-138



59

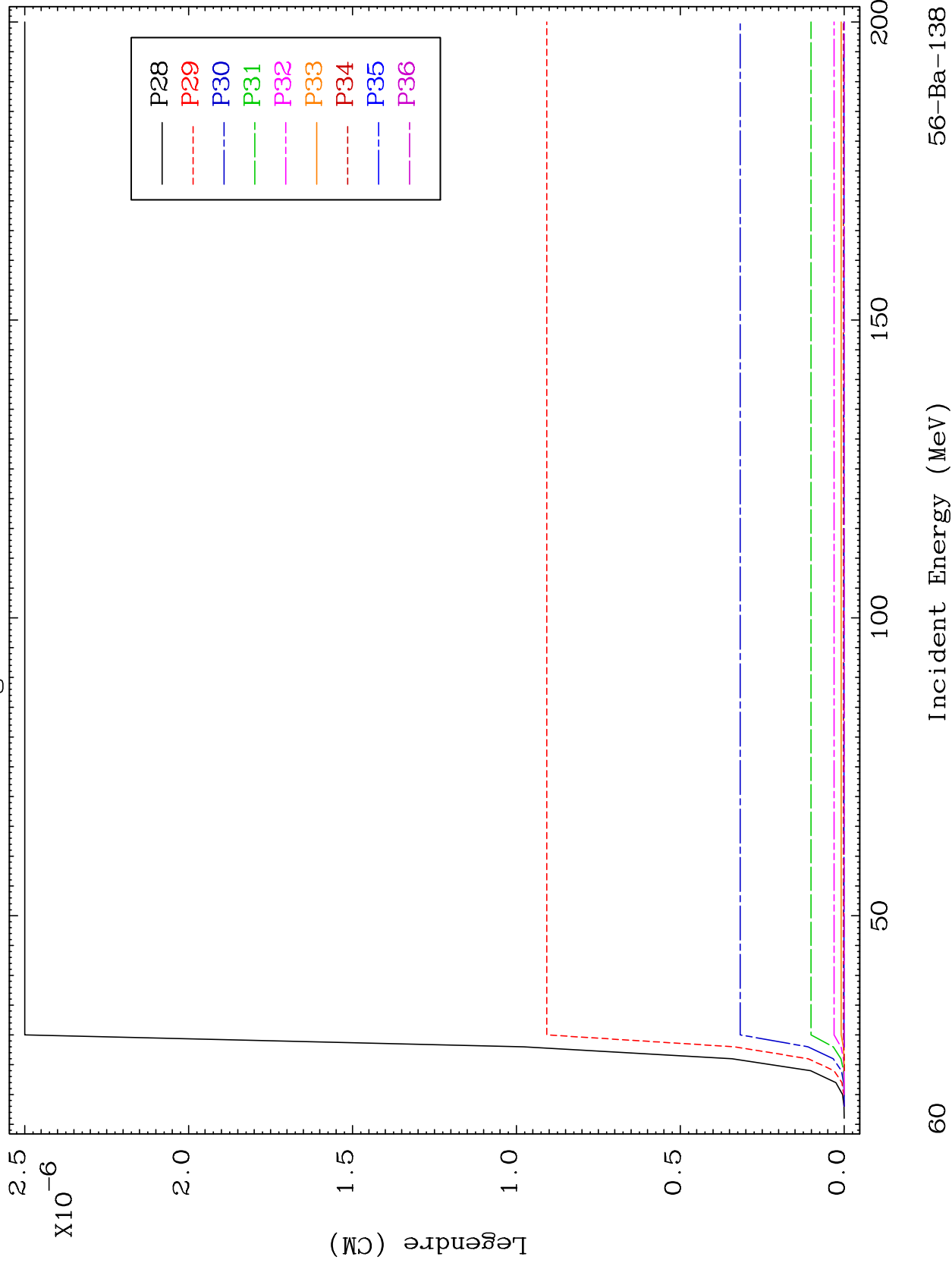
Incident Energy (MeV)

56-Ba-138

MAT 5649

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

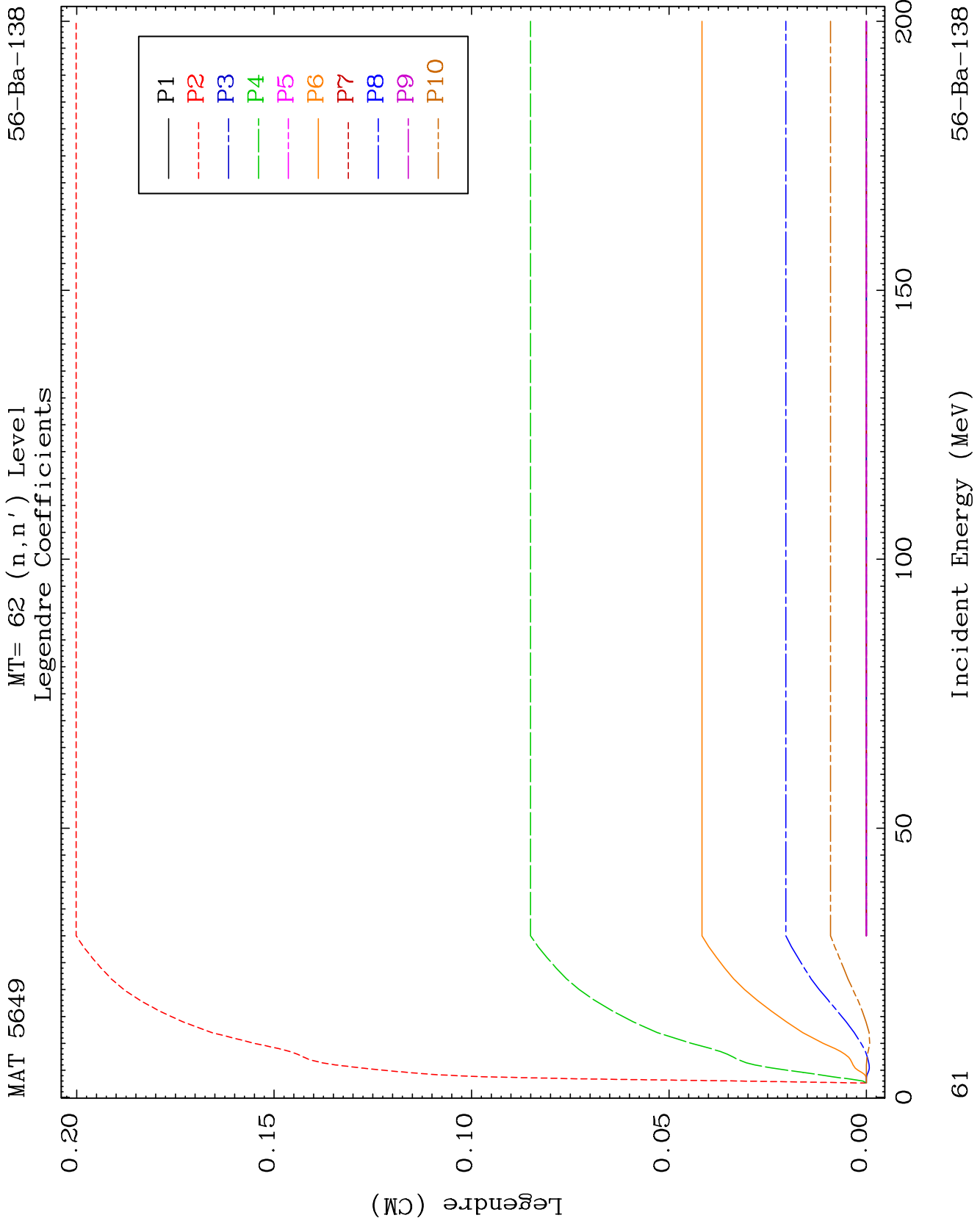
56-Ba-138



60

Incident Energy (MeV)

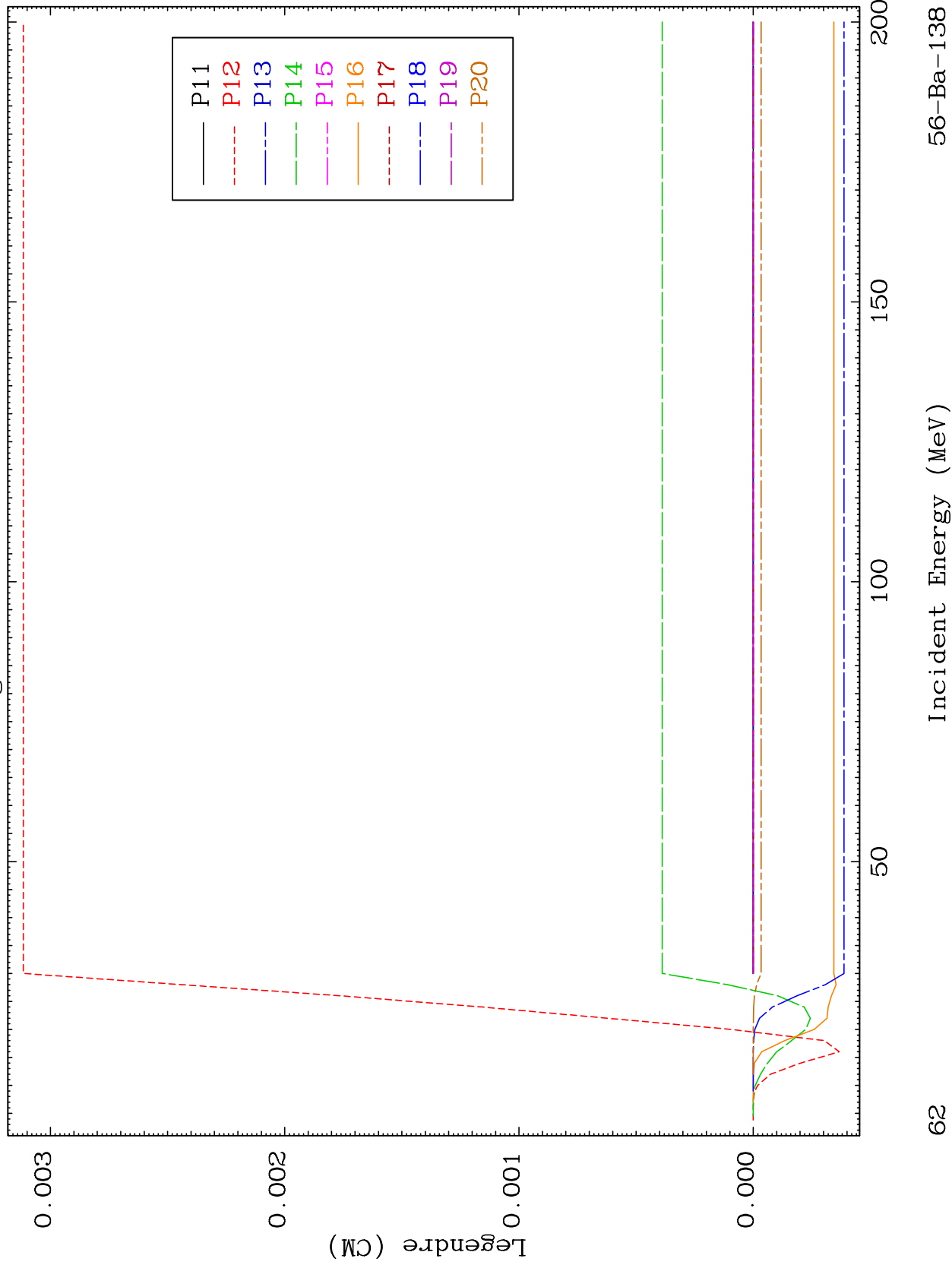
56-Ba-138



MAT 5649

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

56-Ba-138



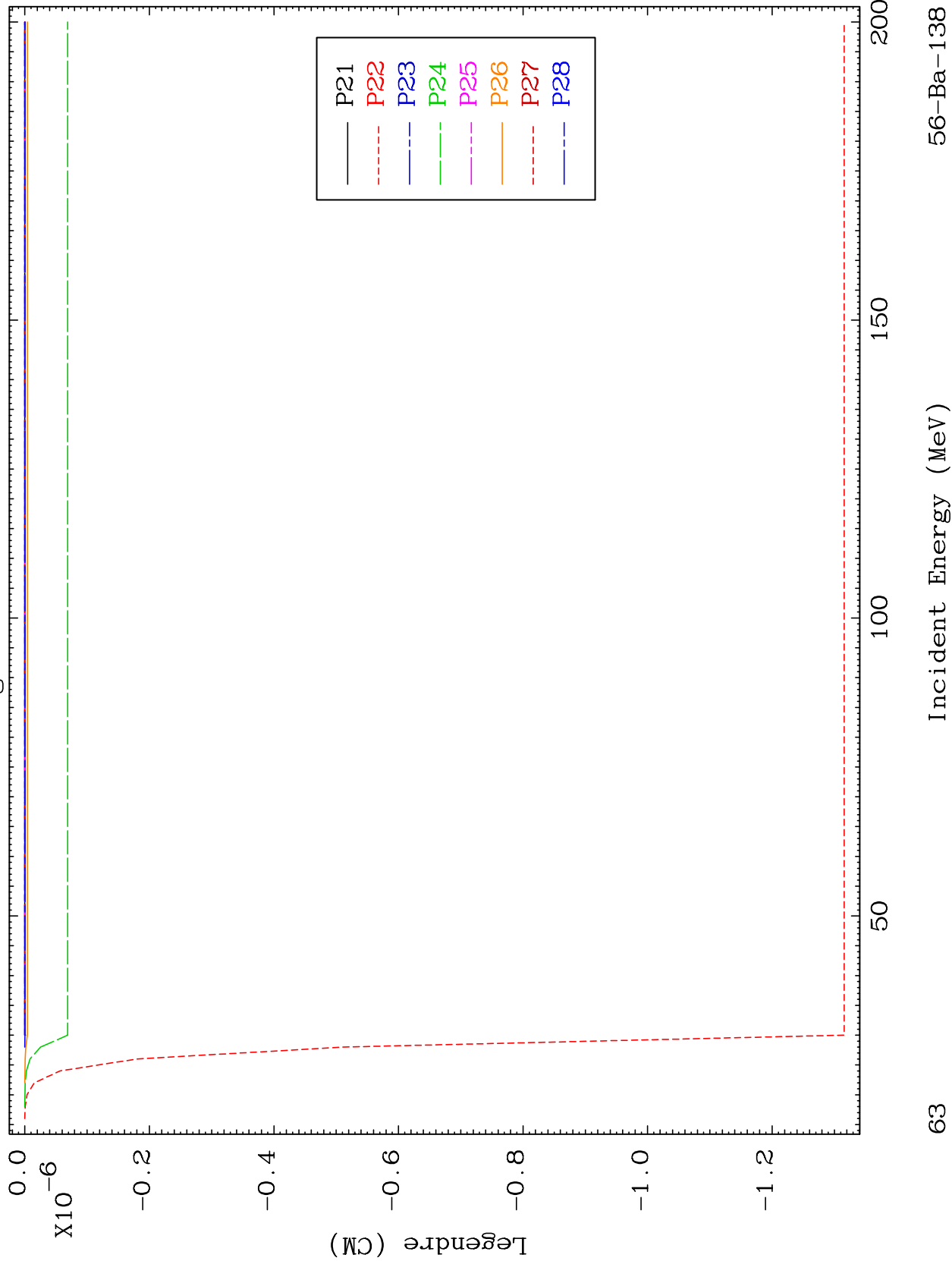
62

56-Ba-138

MAT 5649

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

56-Ba-138



63

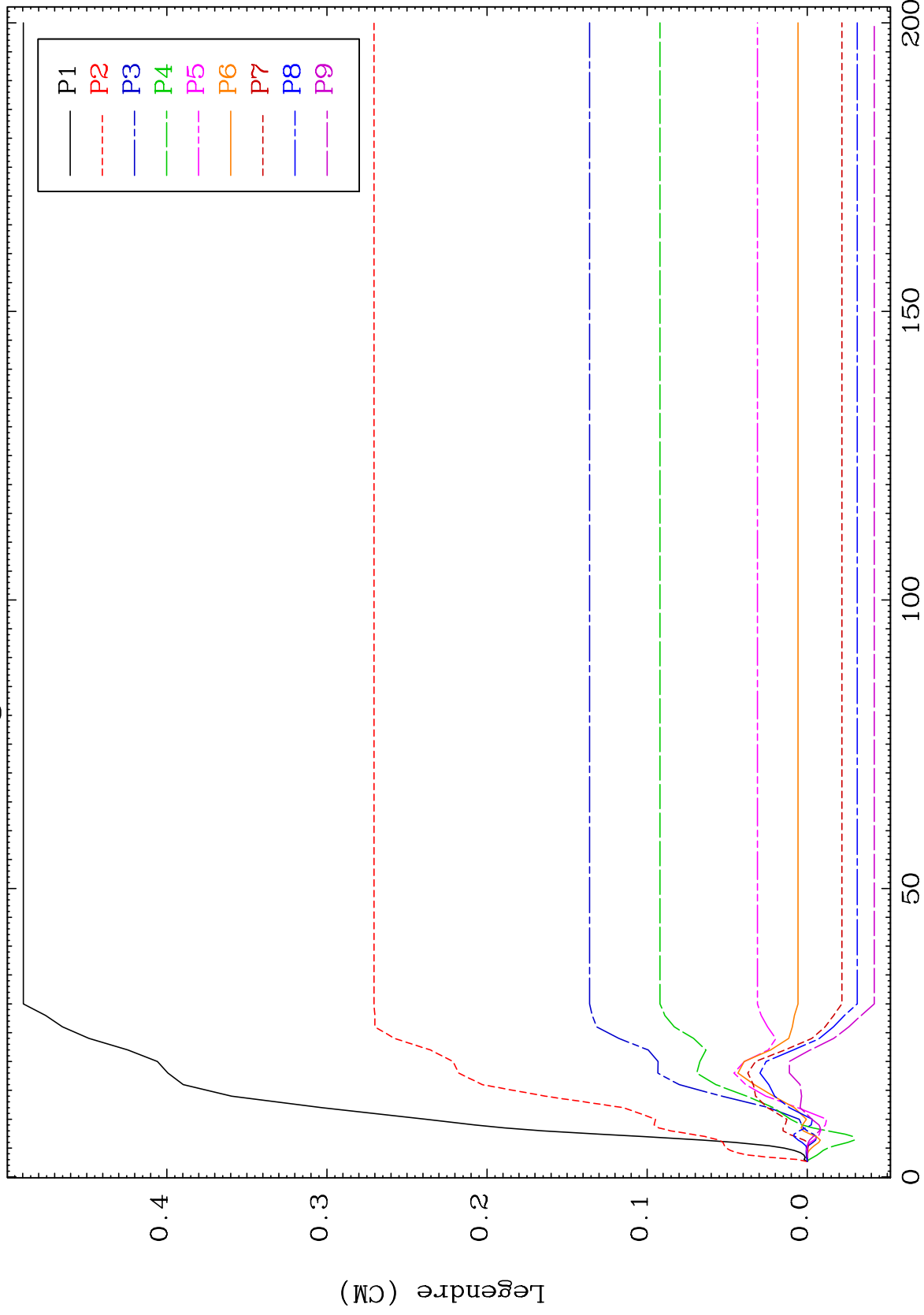
56-Ba-138



MAT 5649

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

56-Ba-138



64

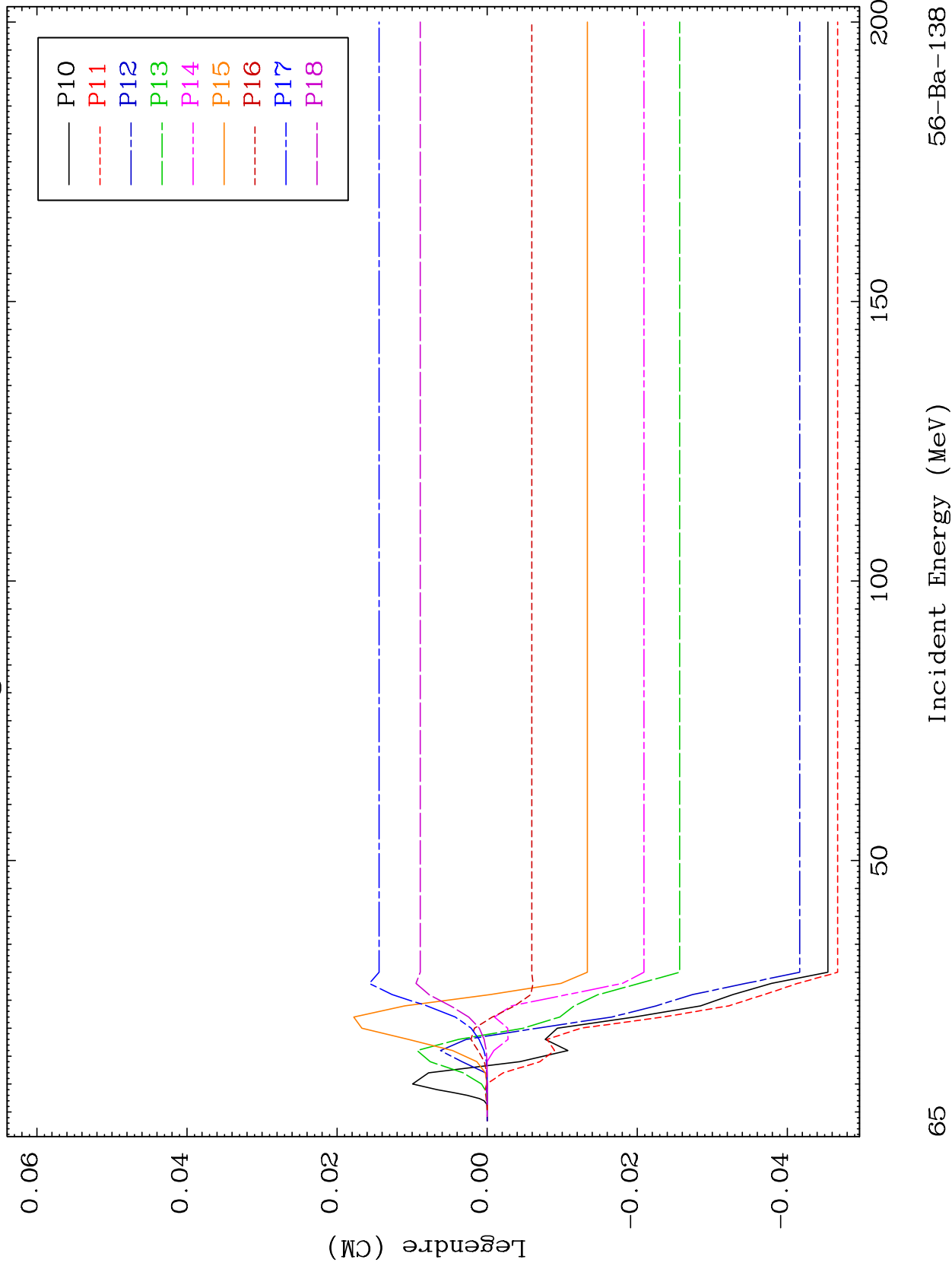
Incident Energy (MeV)

56-Ba-138

MAT 5649

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

56-Ba-138



65

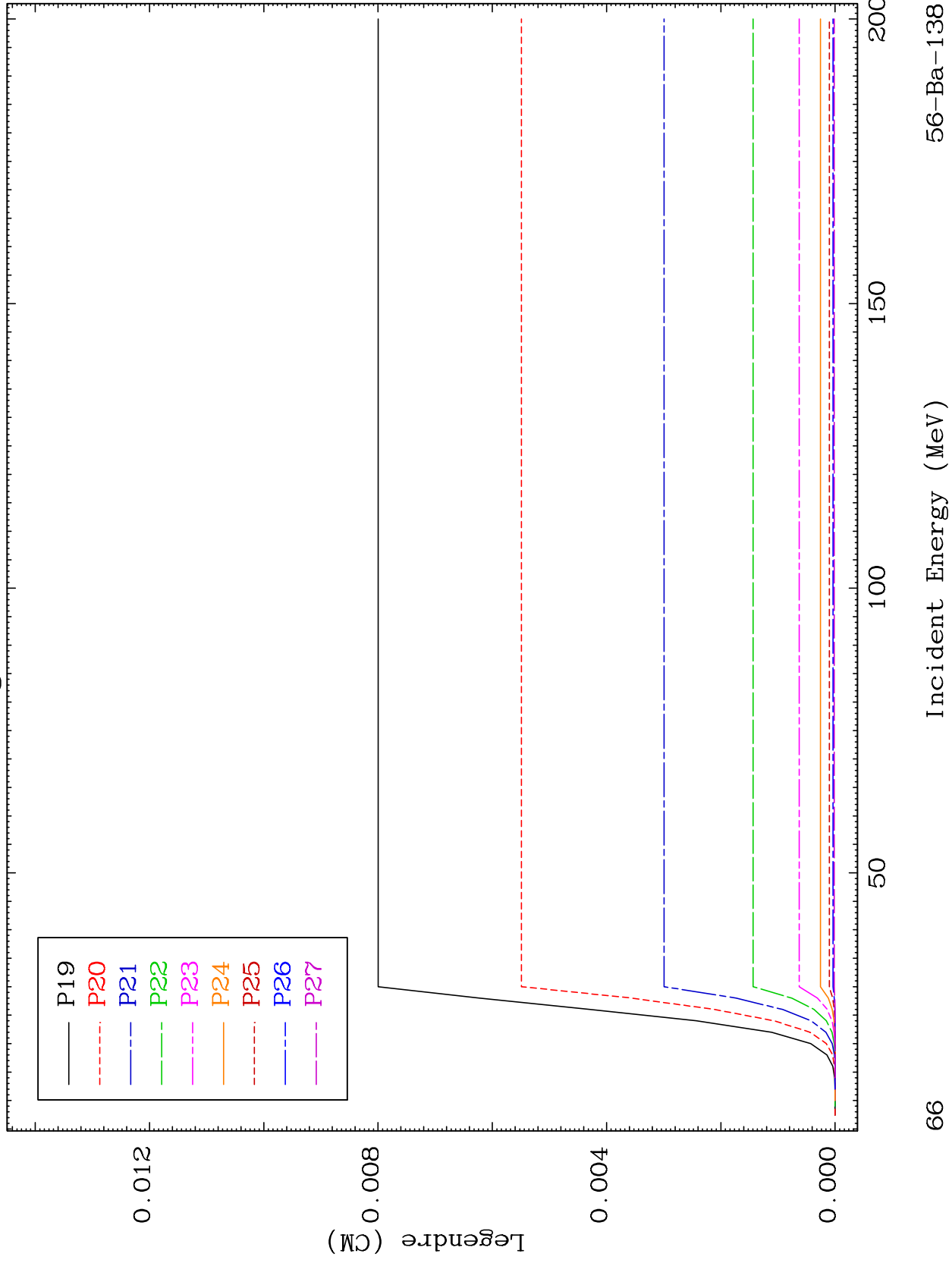
Incident Energy (MeV)

56-Ba-138

MAT 5649

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

56-Ba-138



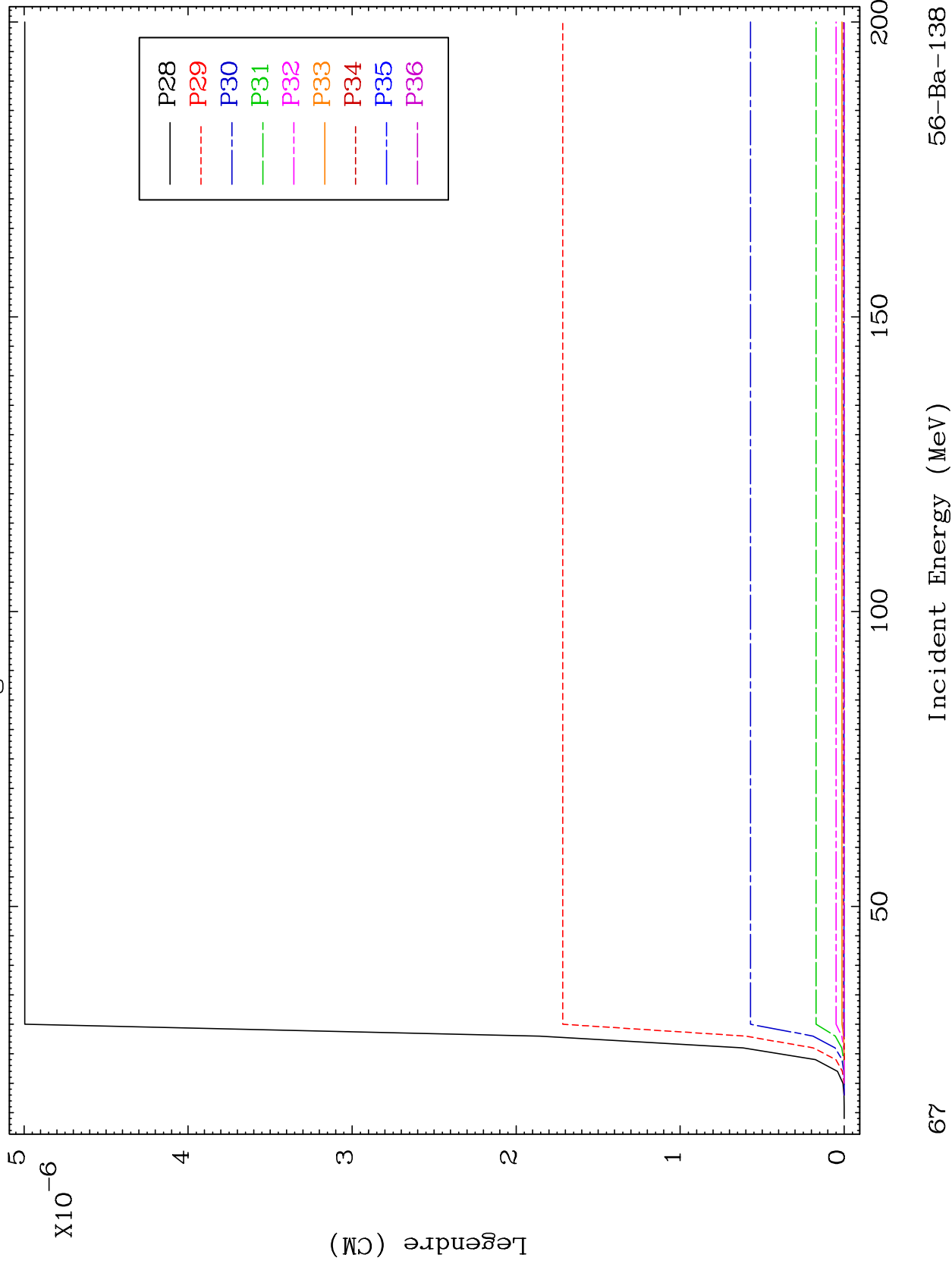
66

56-Ba-138

MAT 5649

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

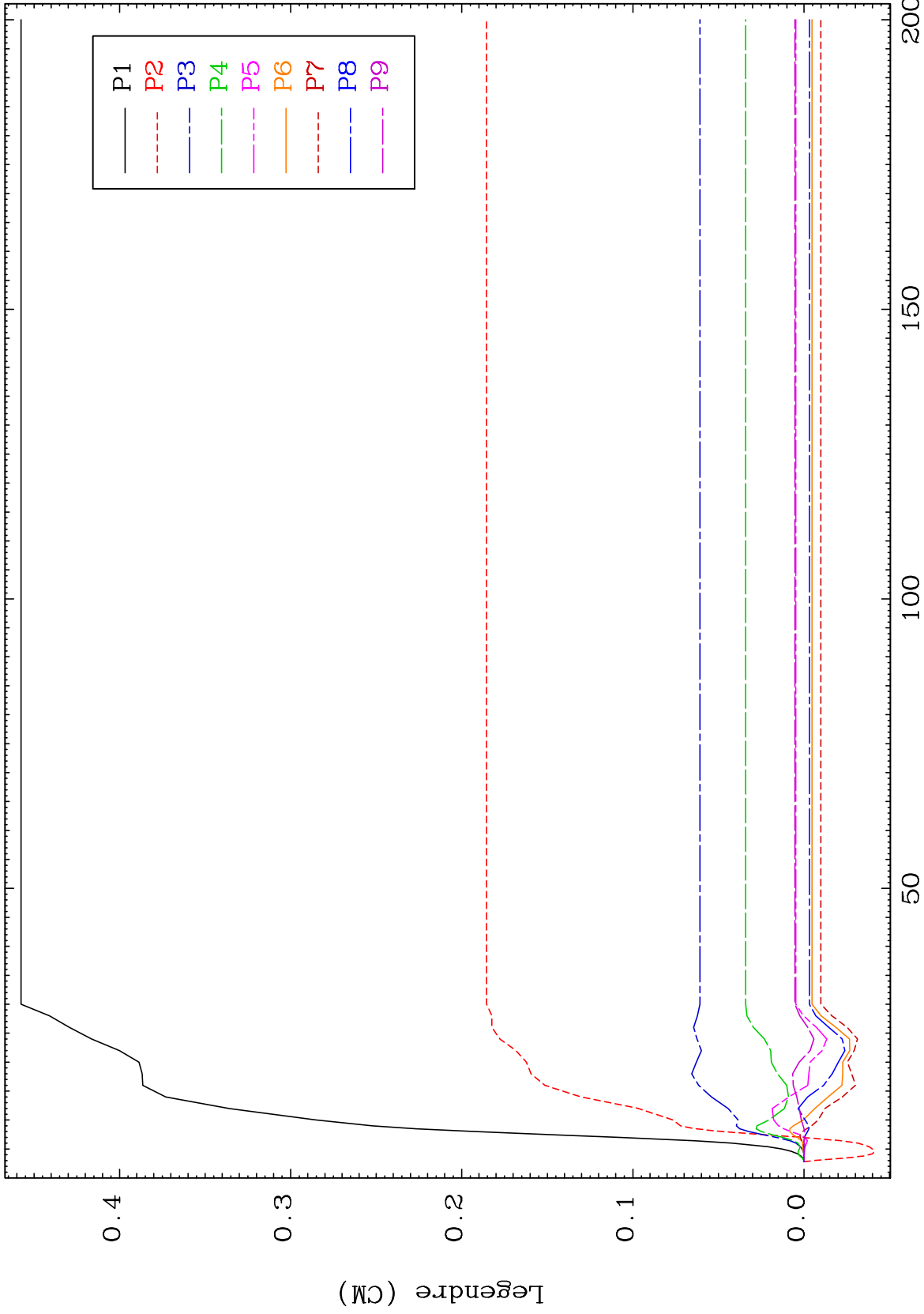
56-Ba-138



MAT 5649

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

56-Ba-138



68

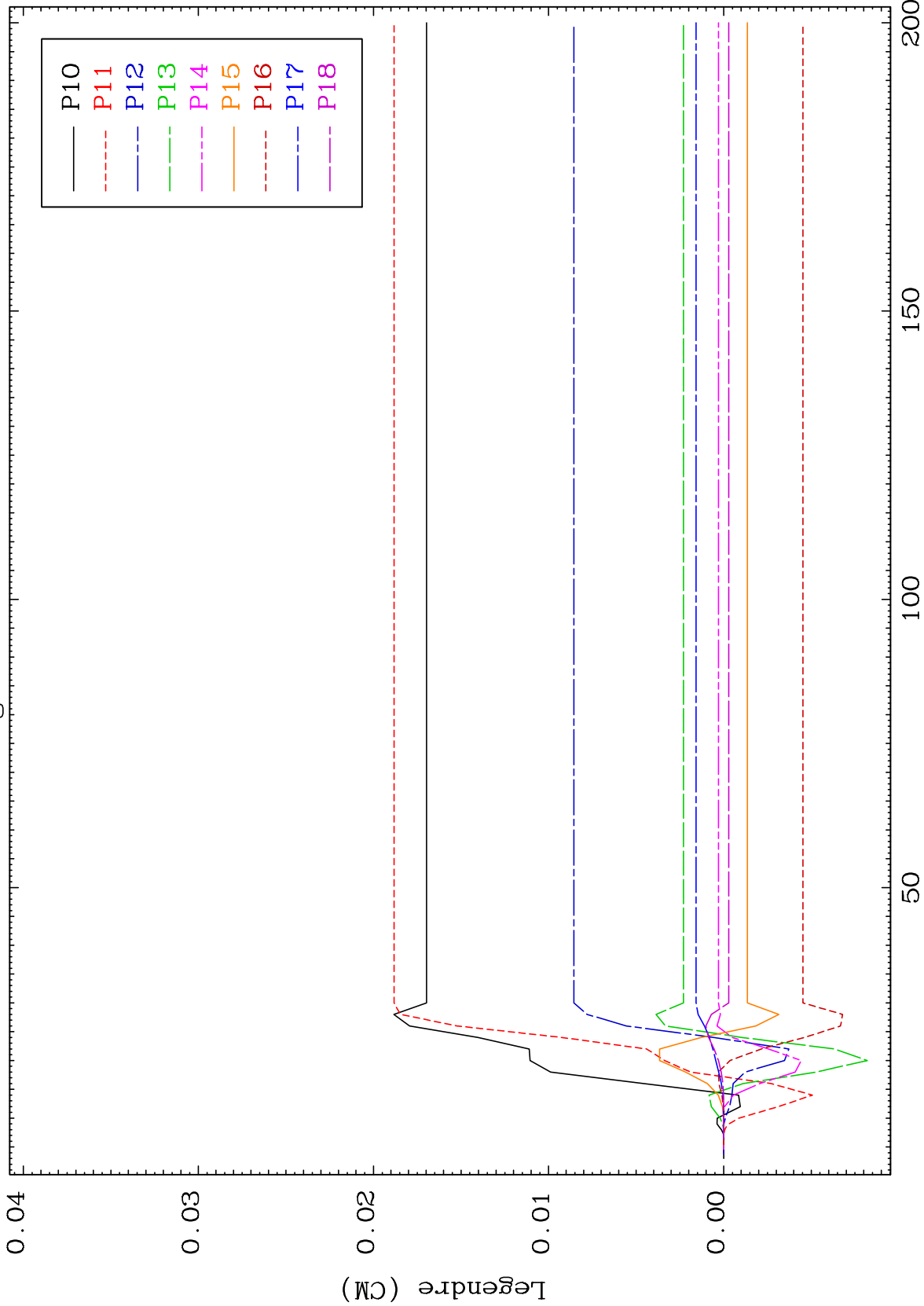
Incident Energy (MeV)

56-Ba-138

MAT 5649

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

56-Ba-138



69

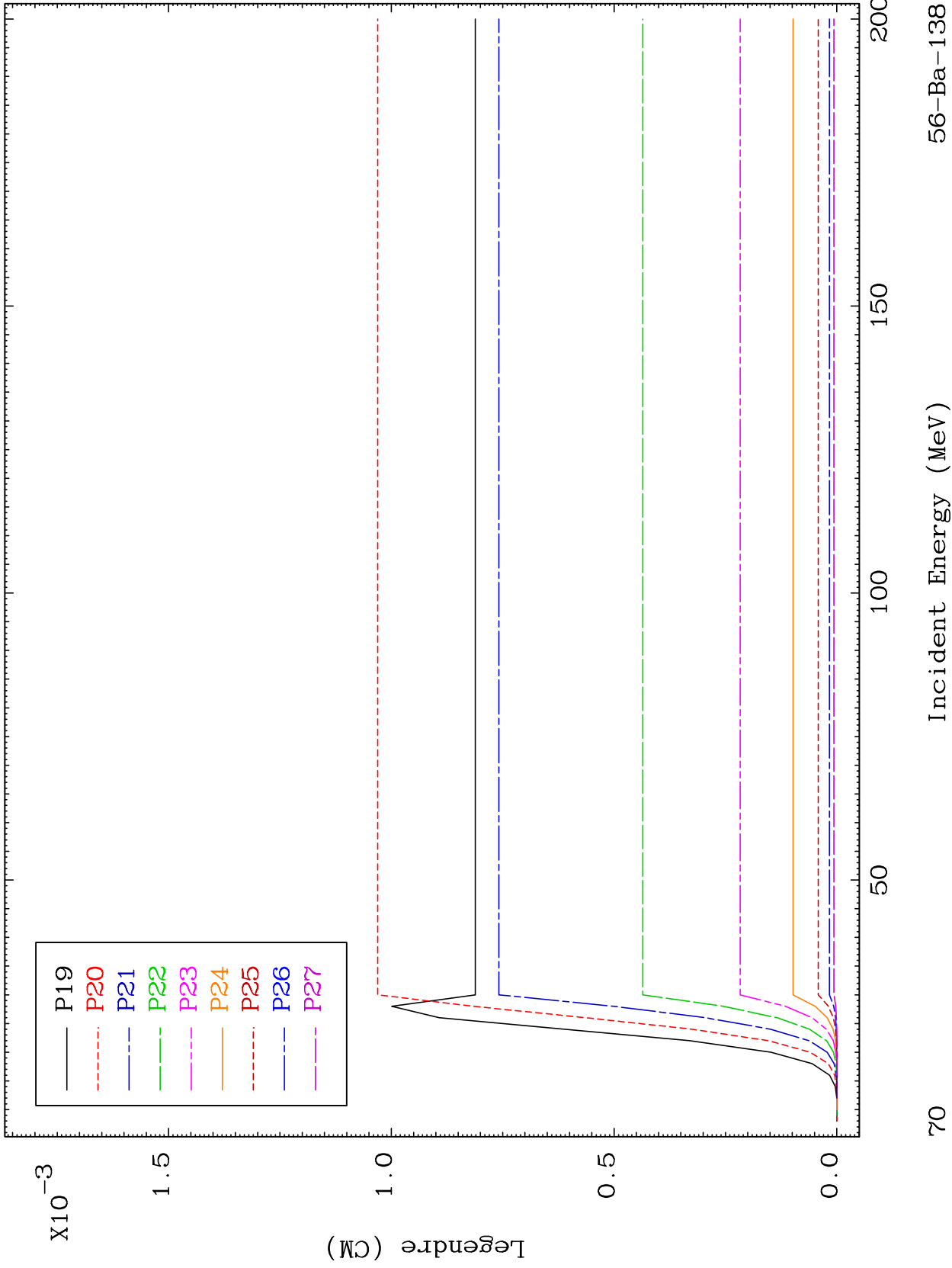
Incident Energy (MeV)

56-Ba-138

MAT 5649

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

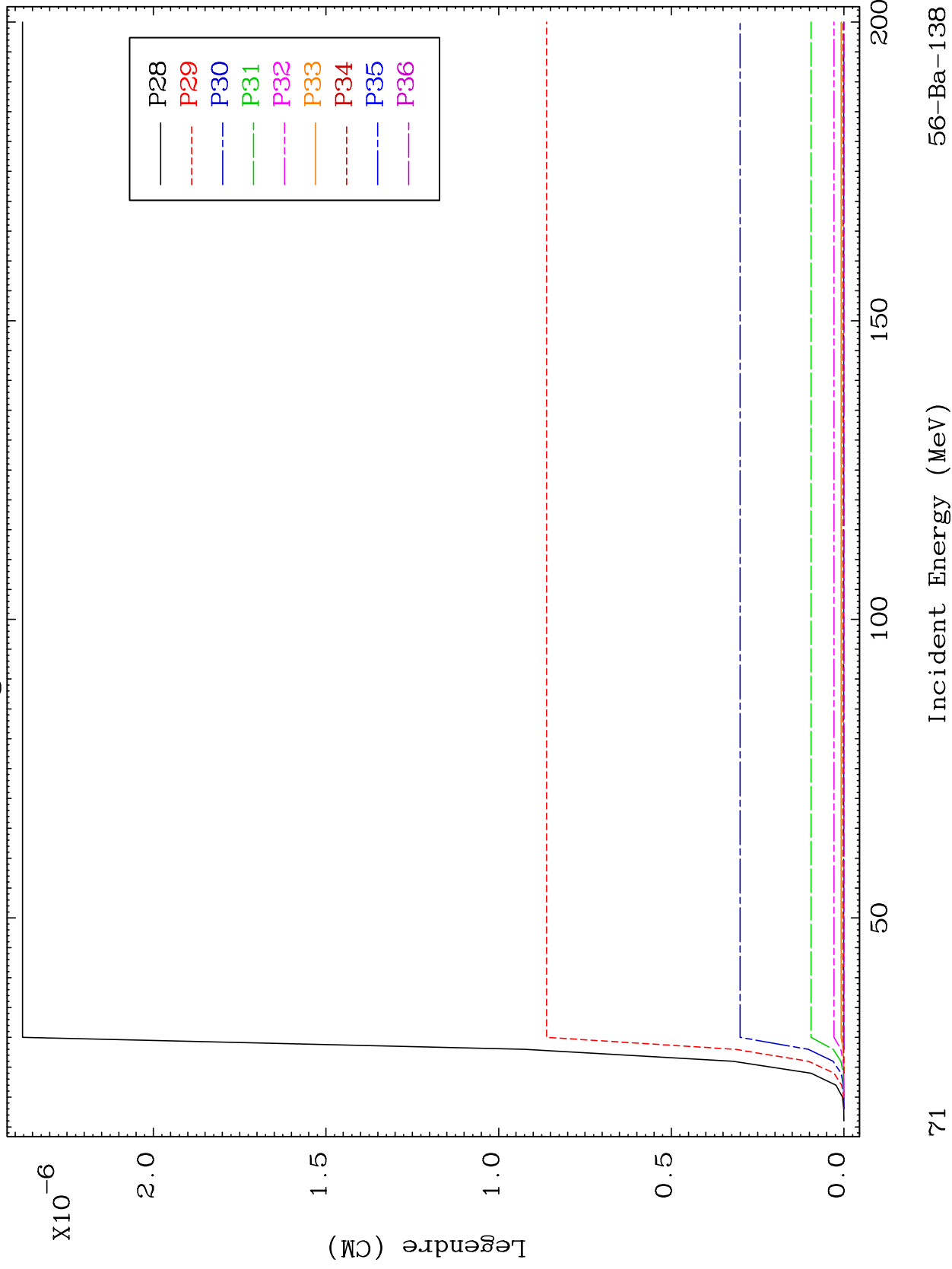
56-Ba-138



MAT 5649

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

56-Ba-138

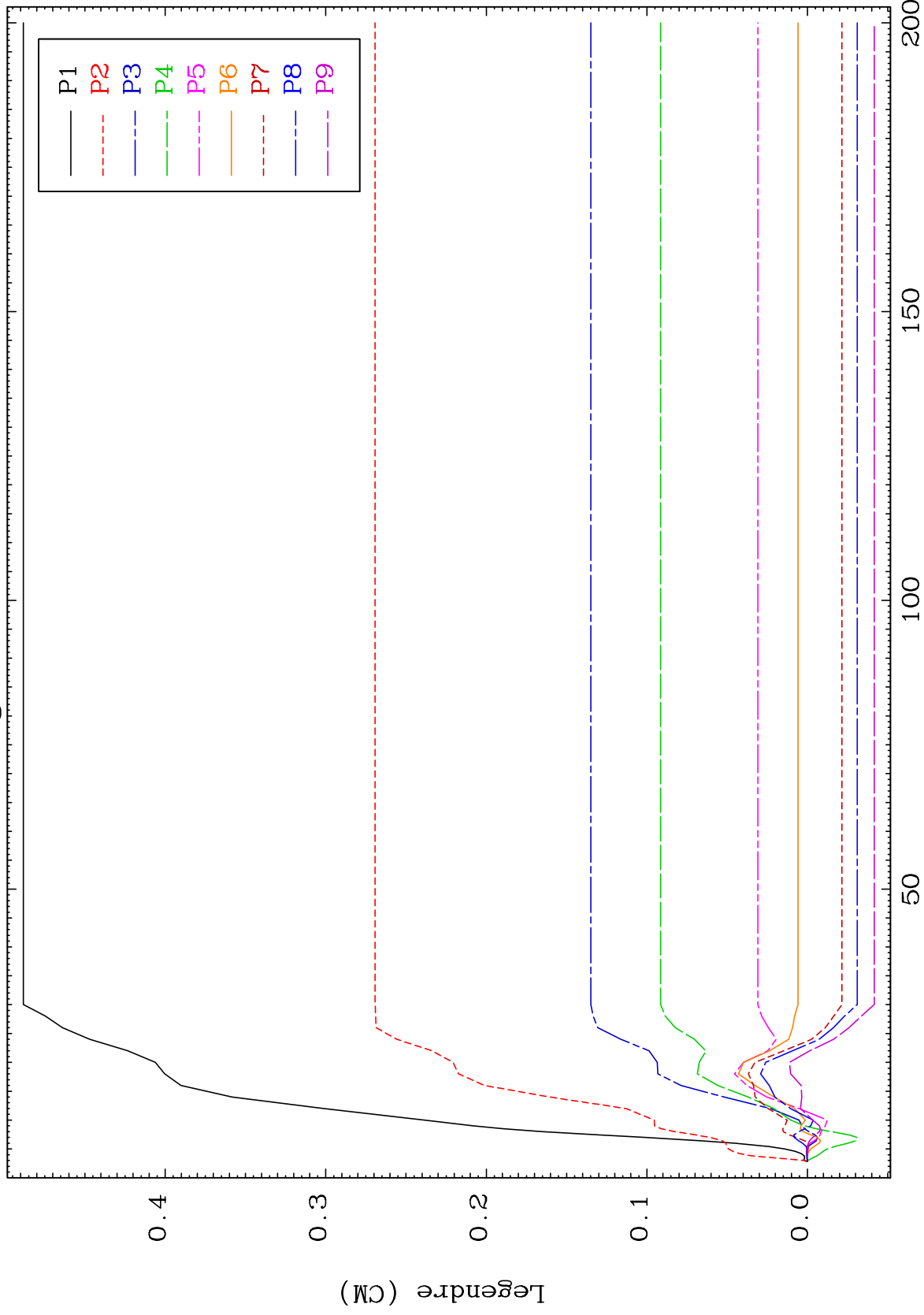




MAT 5649

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

56-Ba-138



72

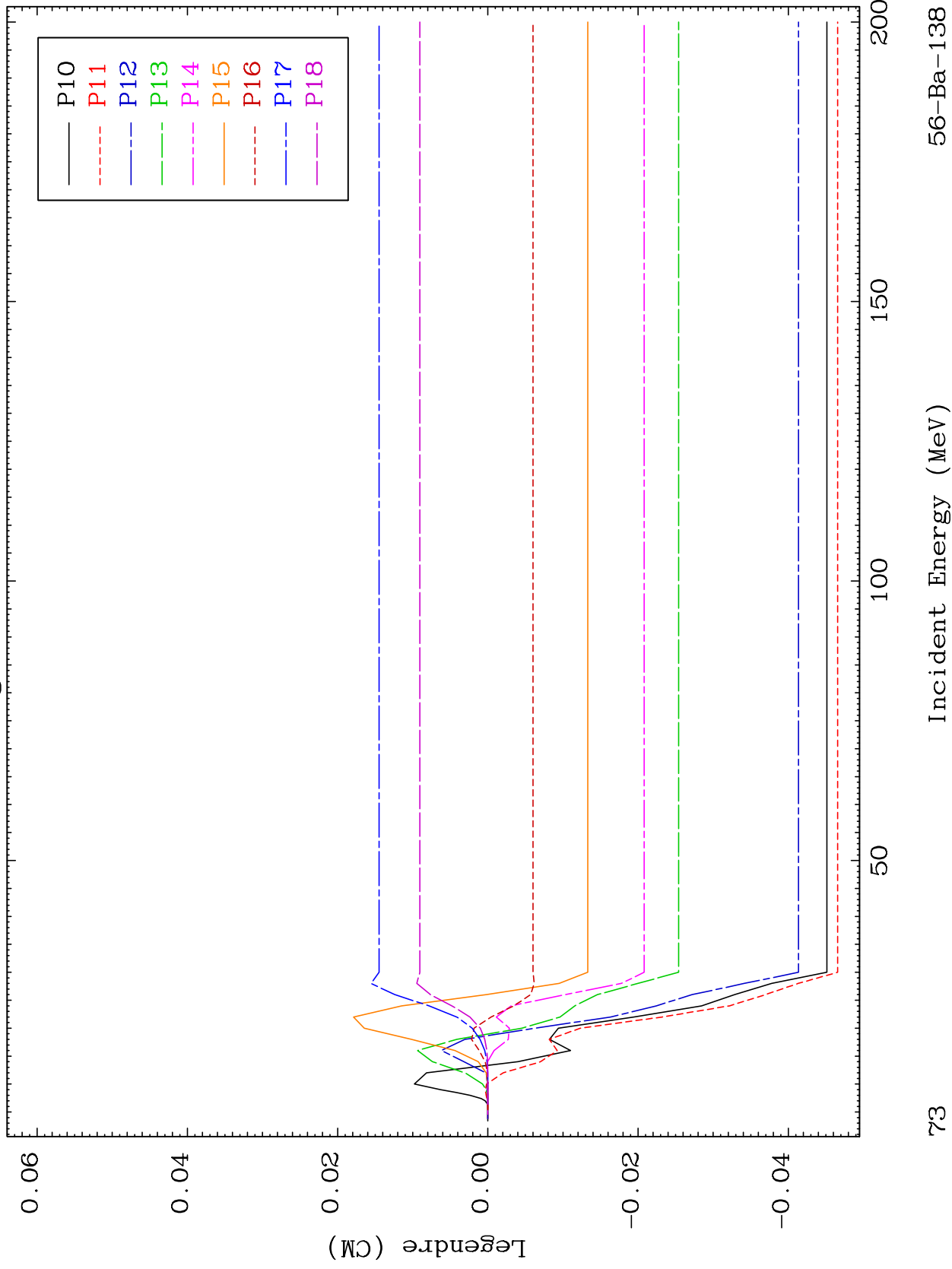
Incident Energy (MeV)

56-Ba-138

MAT 5649

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

56-Ba-138



73

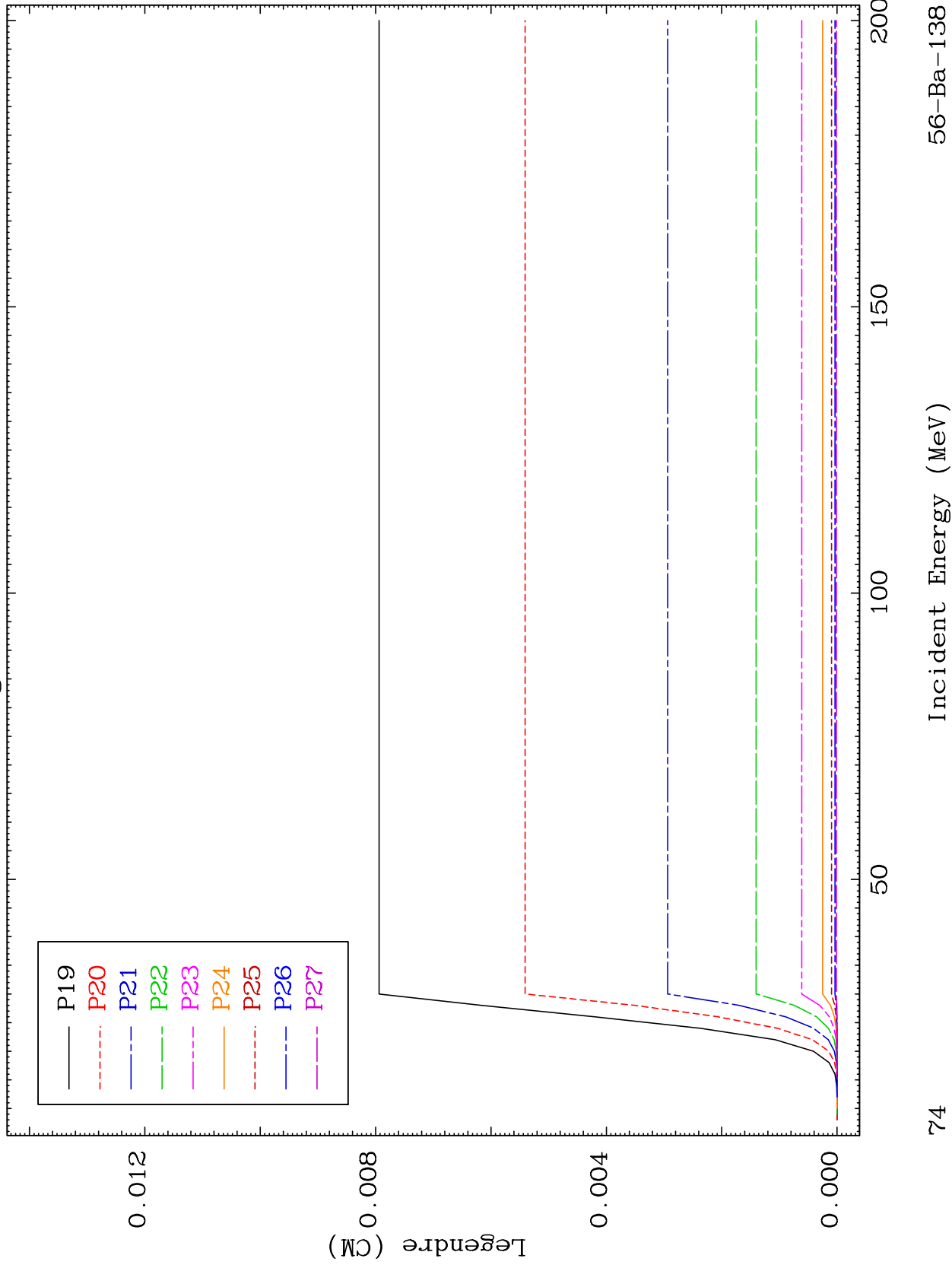
Incident Energy (MeV)

56-Ba-138

MAT 5649

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

56-Ba-138



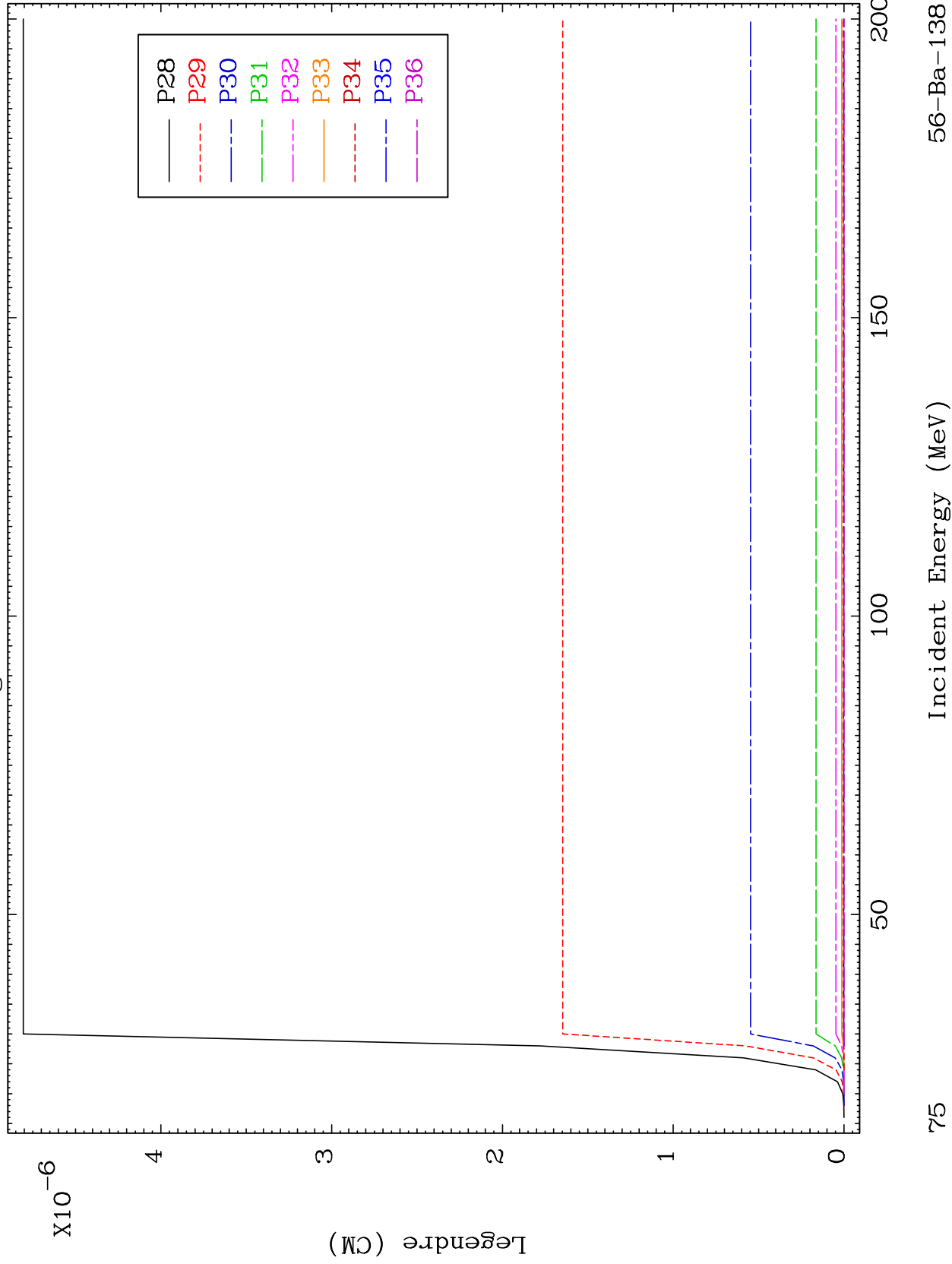
74

56-Ba-138

MAT 5649

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

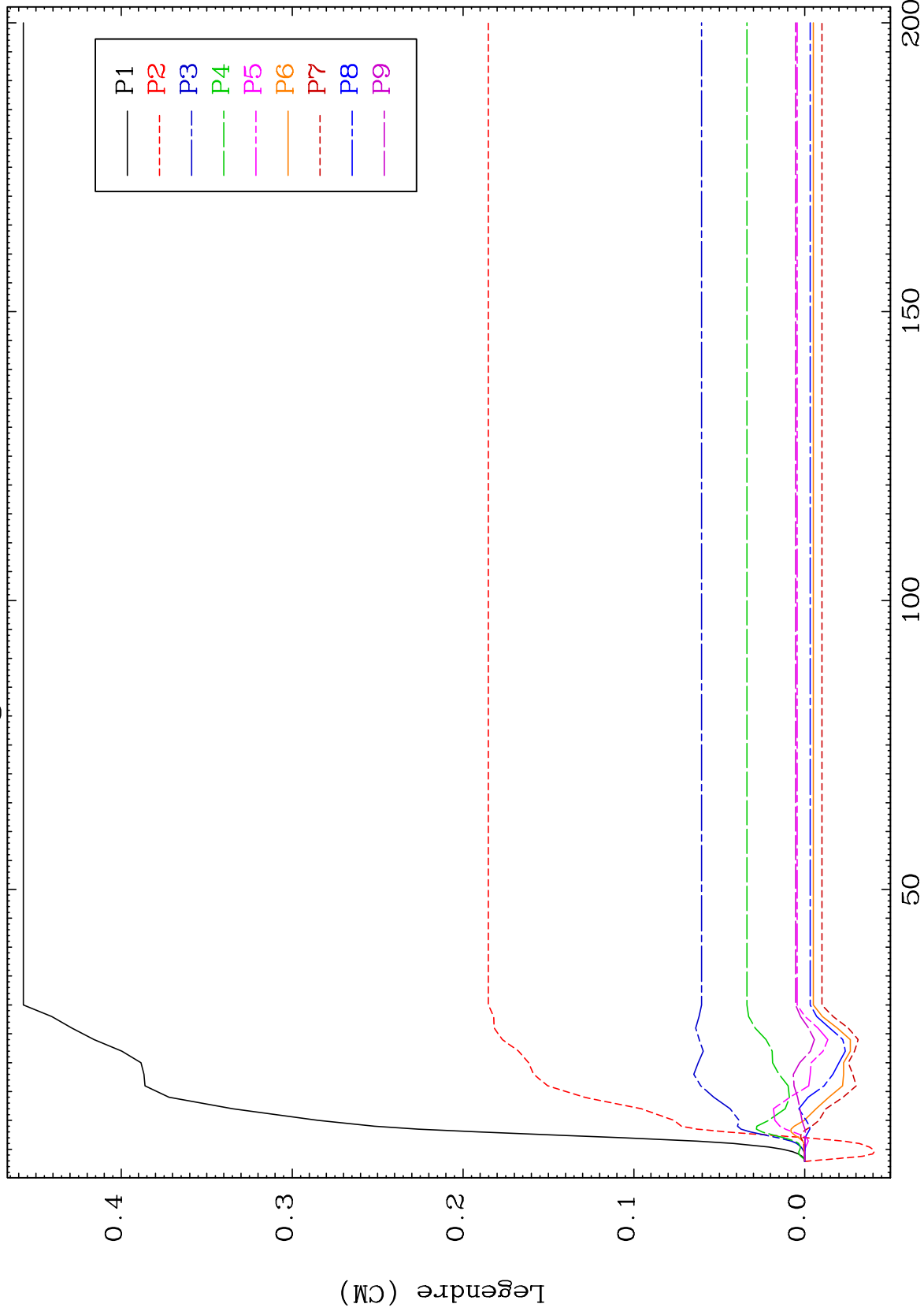
56-Ba-138



MAT 5649

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

56-Ba-138



76

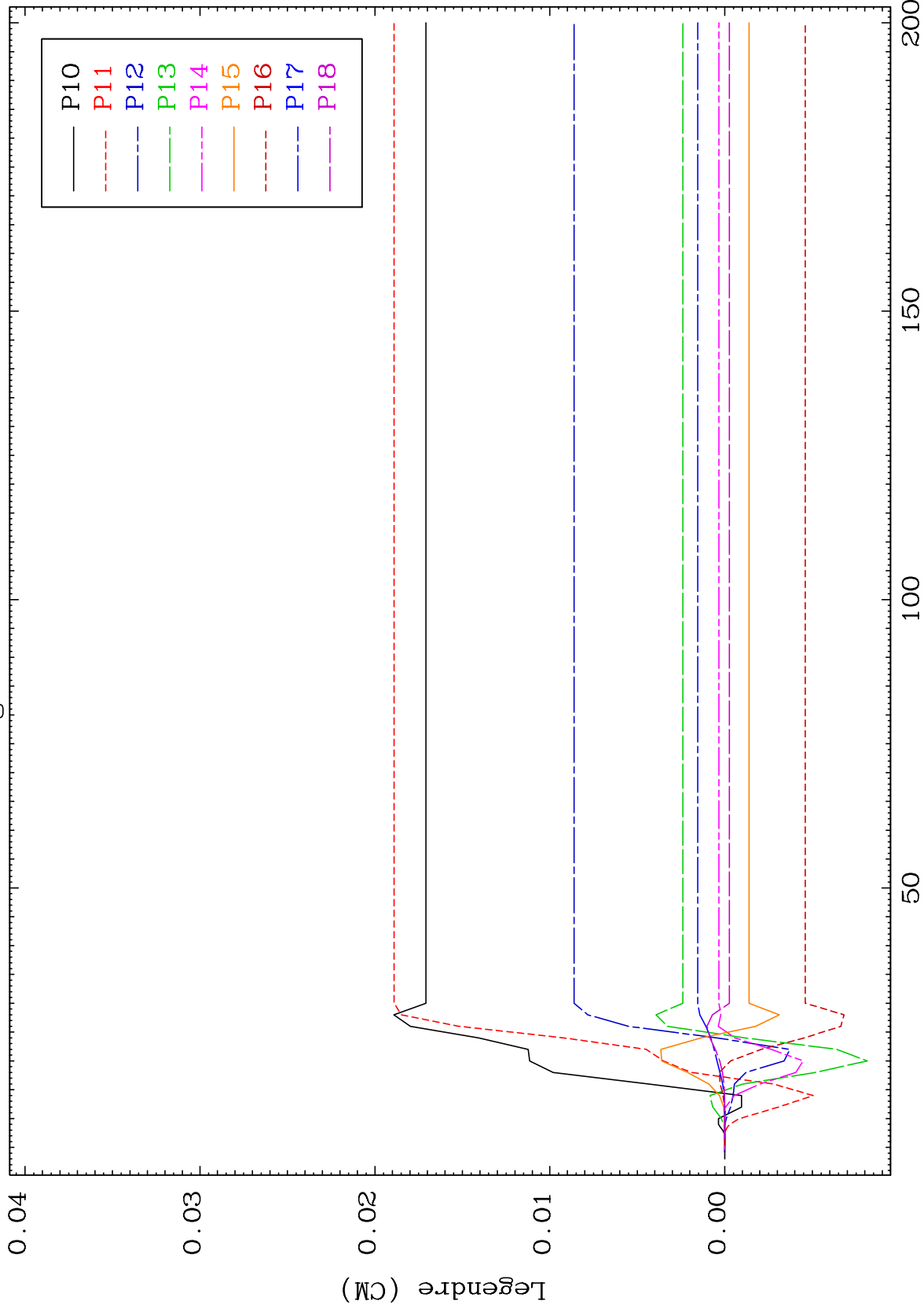
Incident Energy (MeV)

56-Ba-138

MAT 5649

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

56-Ba-138



77

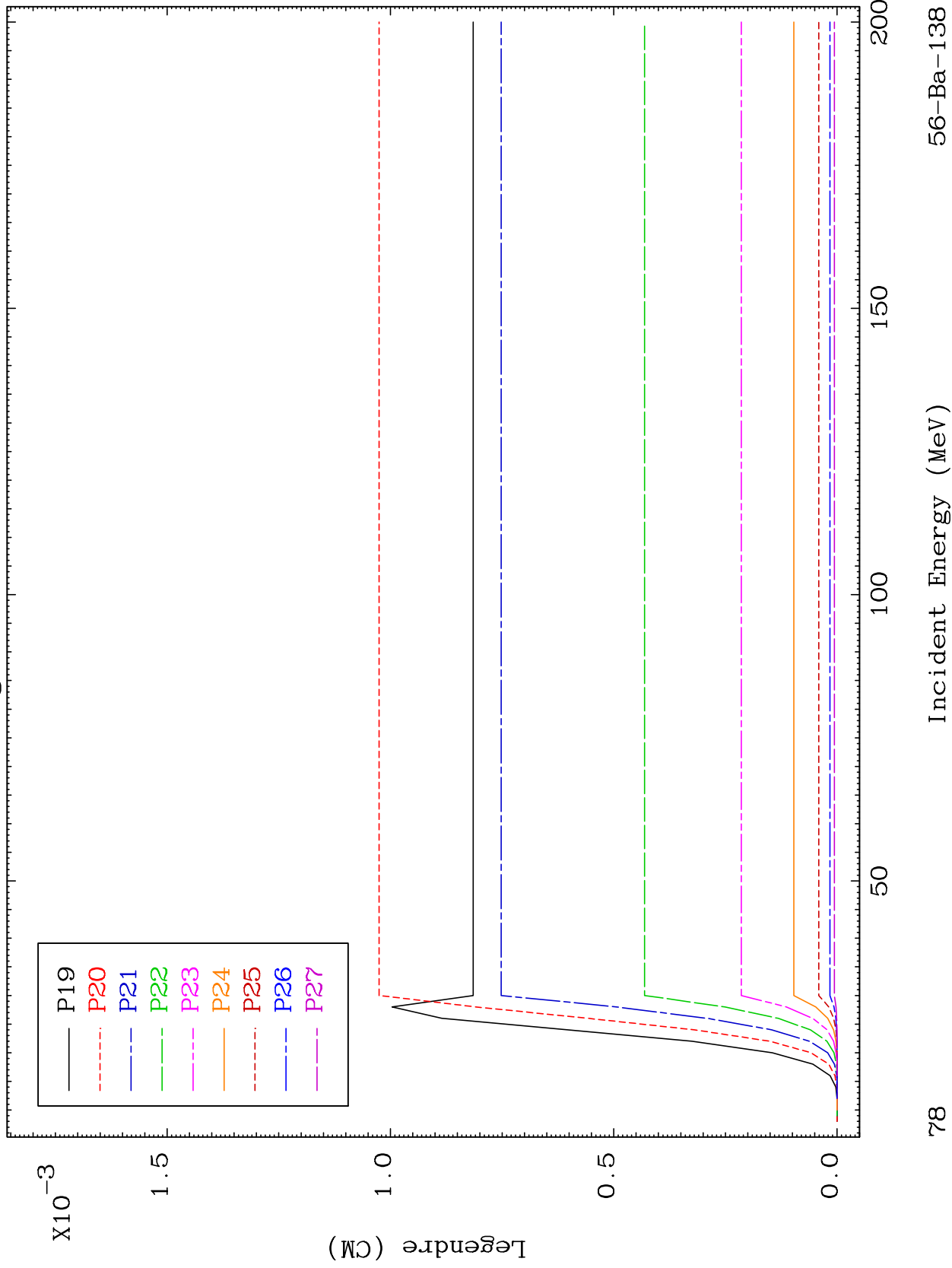
Incident Energy (MeV)

56-Ba-138

MAT 5649

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

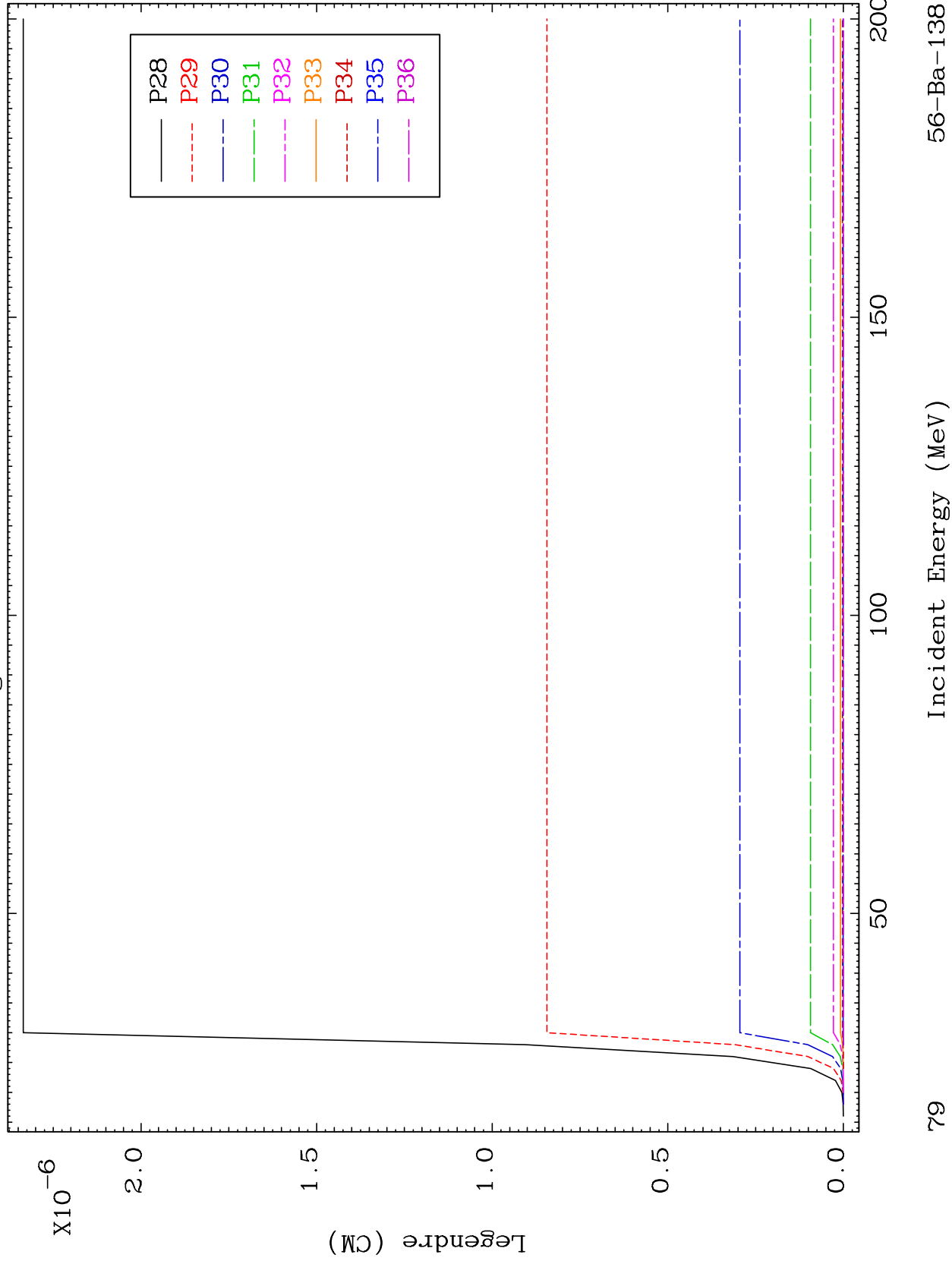
56-Ba-138



MAT 5649

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

56-Ba-138

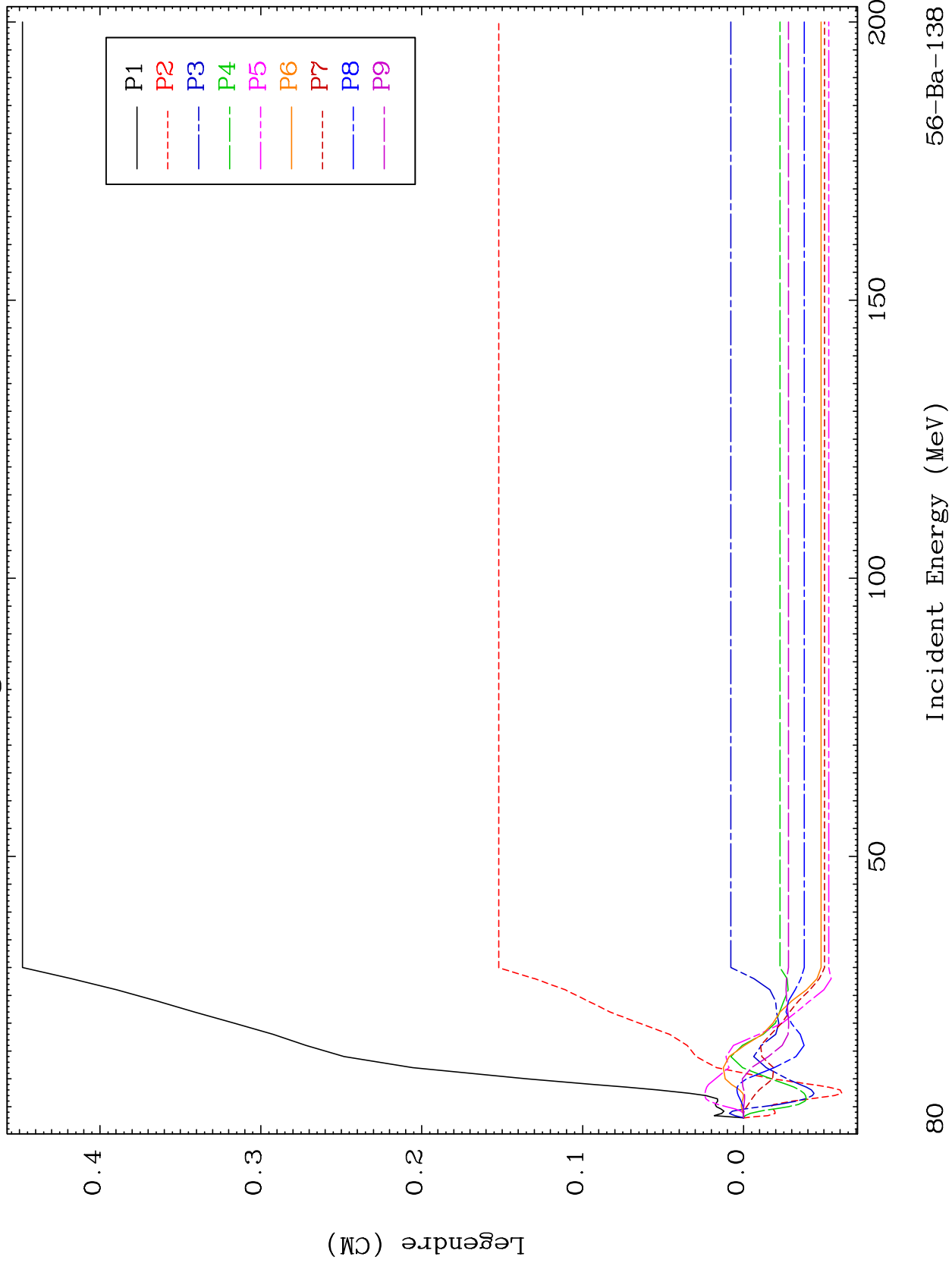




MAT 5649

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

56-Ba-138



56-Ba-138

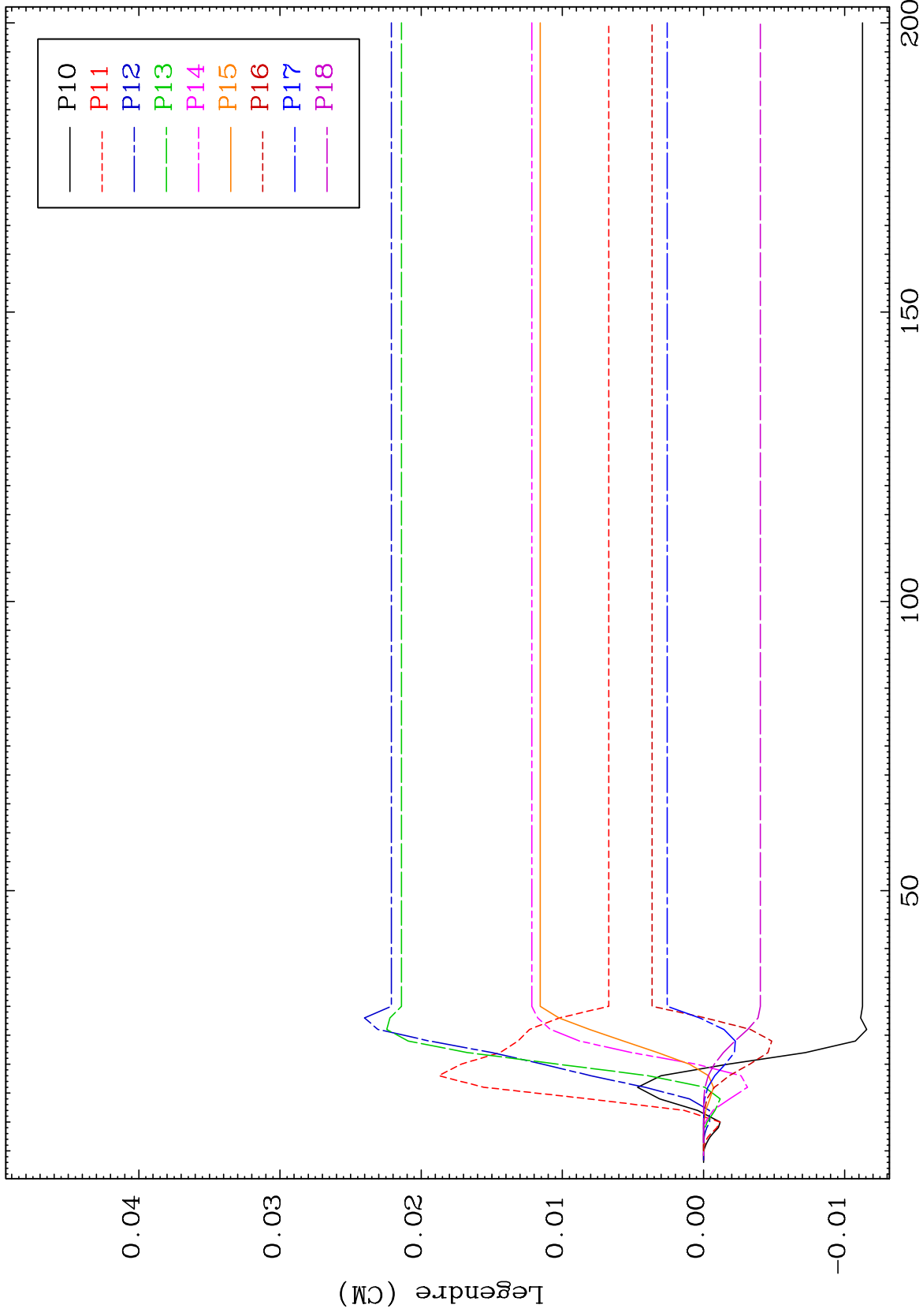
Incident Energy (MeV)

80

MAT 5649

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

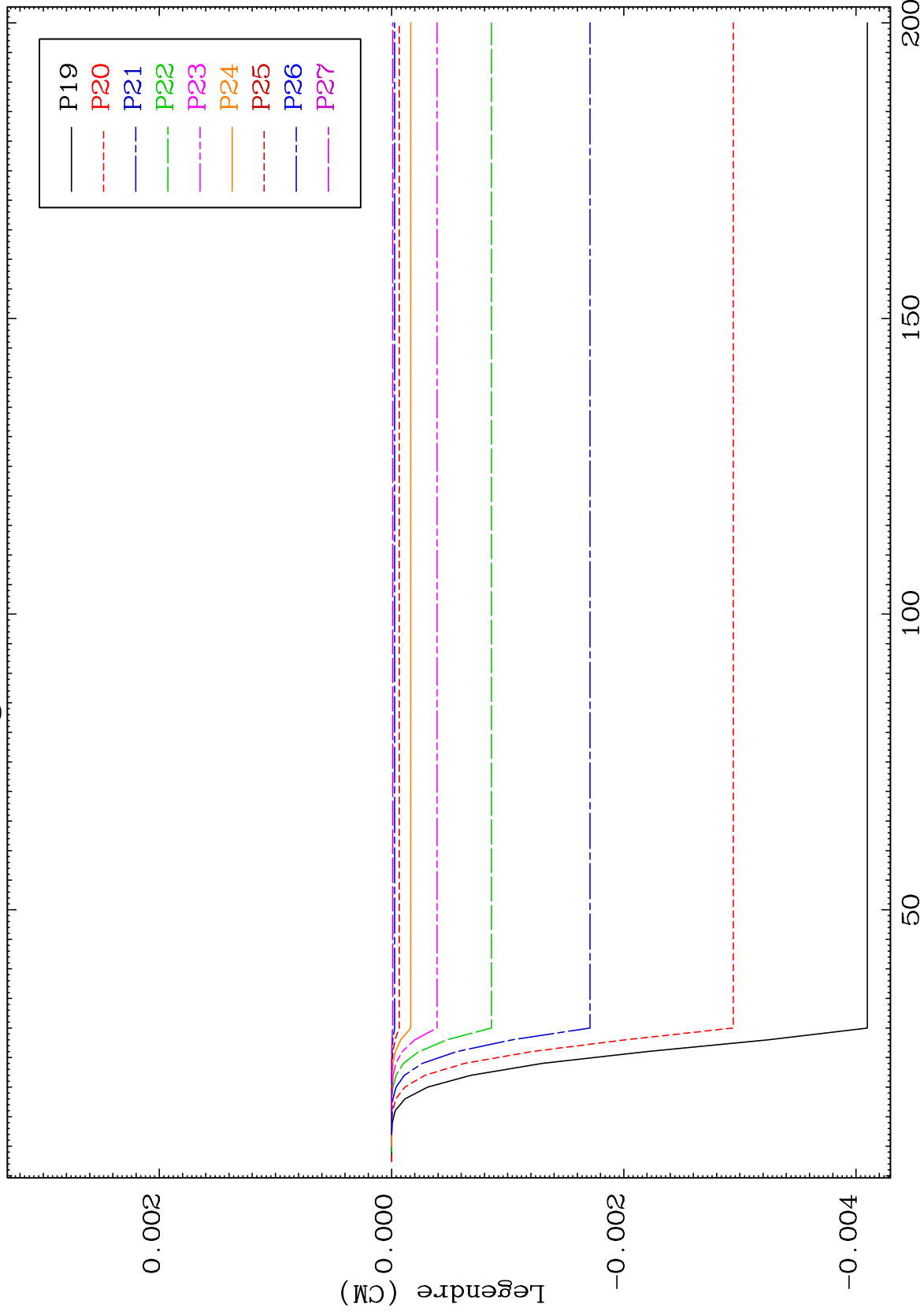
56-Ba-138



MAT 5649

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

56-Ba-138



82

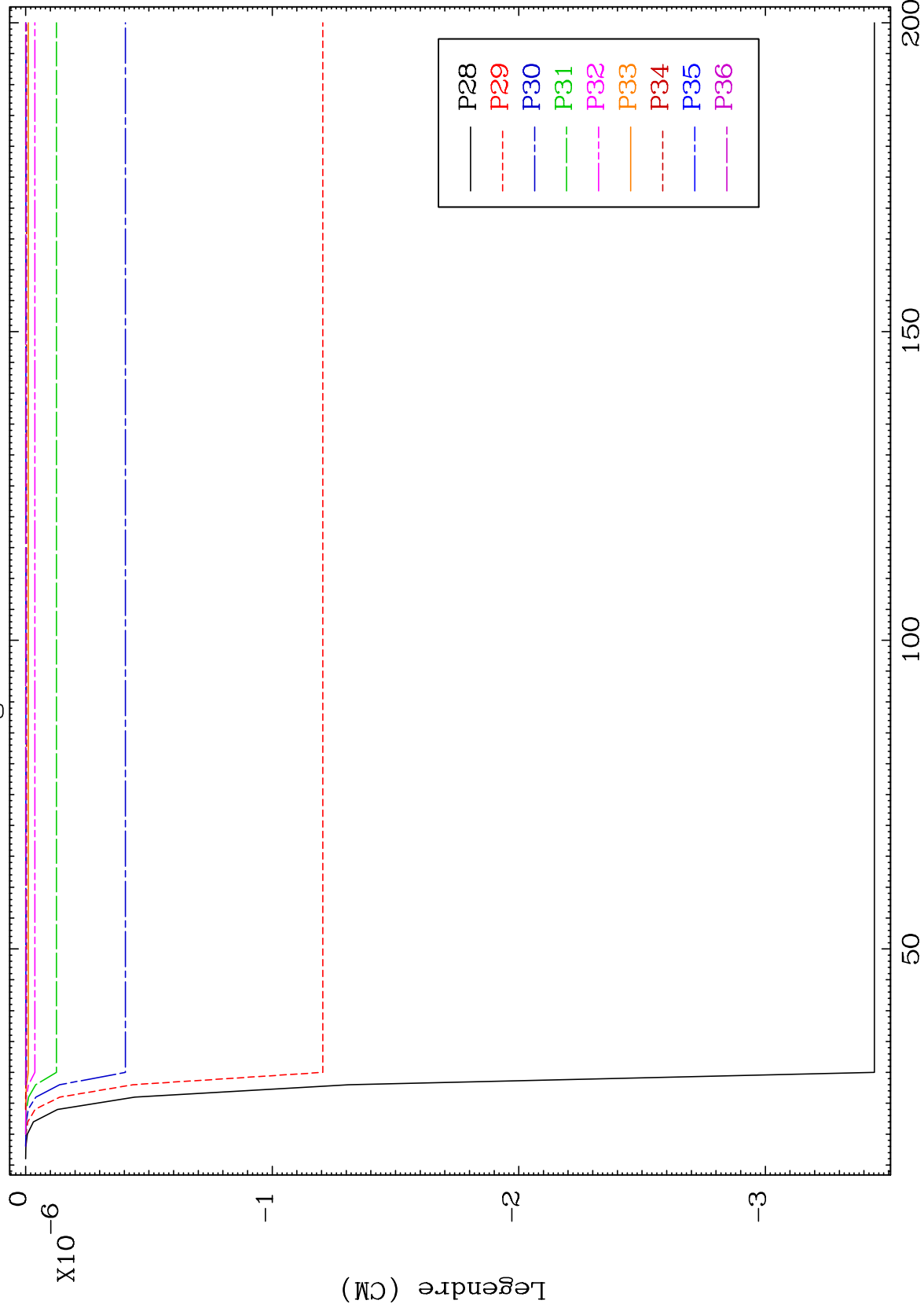
Incident Energy (MeV)

56-Ba-138

MAT 5649

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

56-Ba-138



83

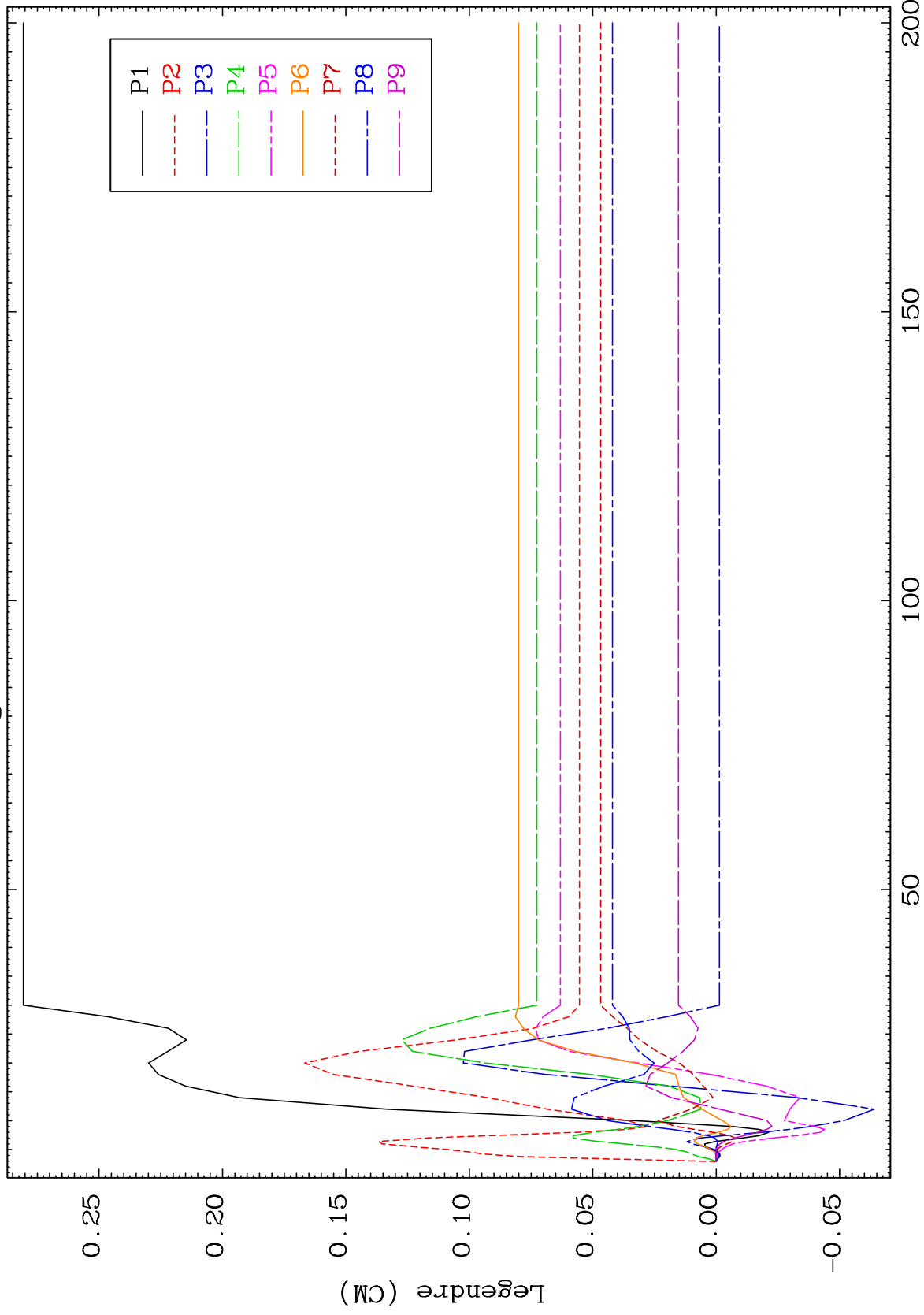
Incident Energy (MeV)

56-Ba-138

MAT 5649

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

56-Ba-138



84

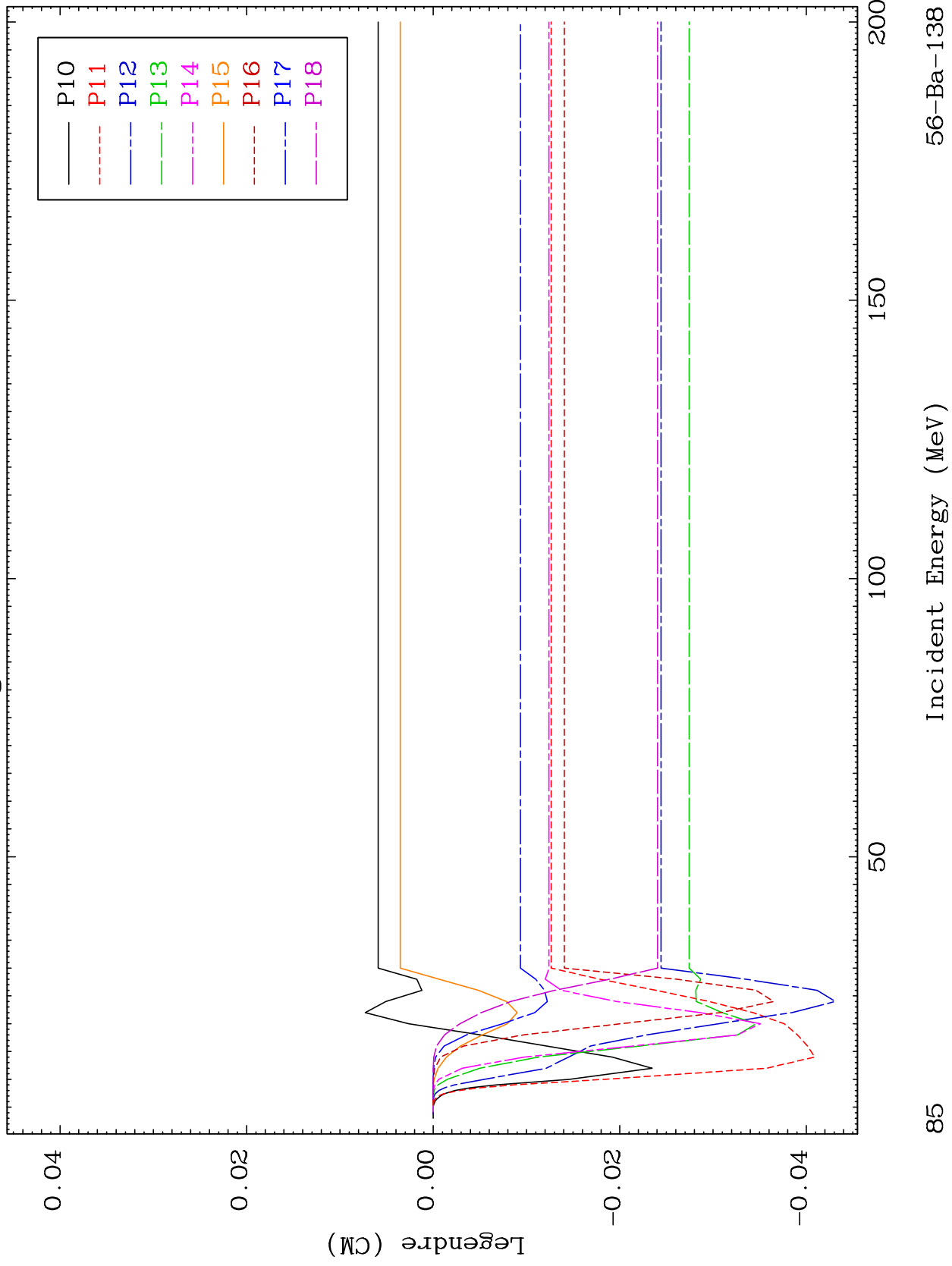
Incident Energy (MeV)

56-Ba-138

MAT 5649

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

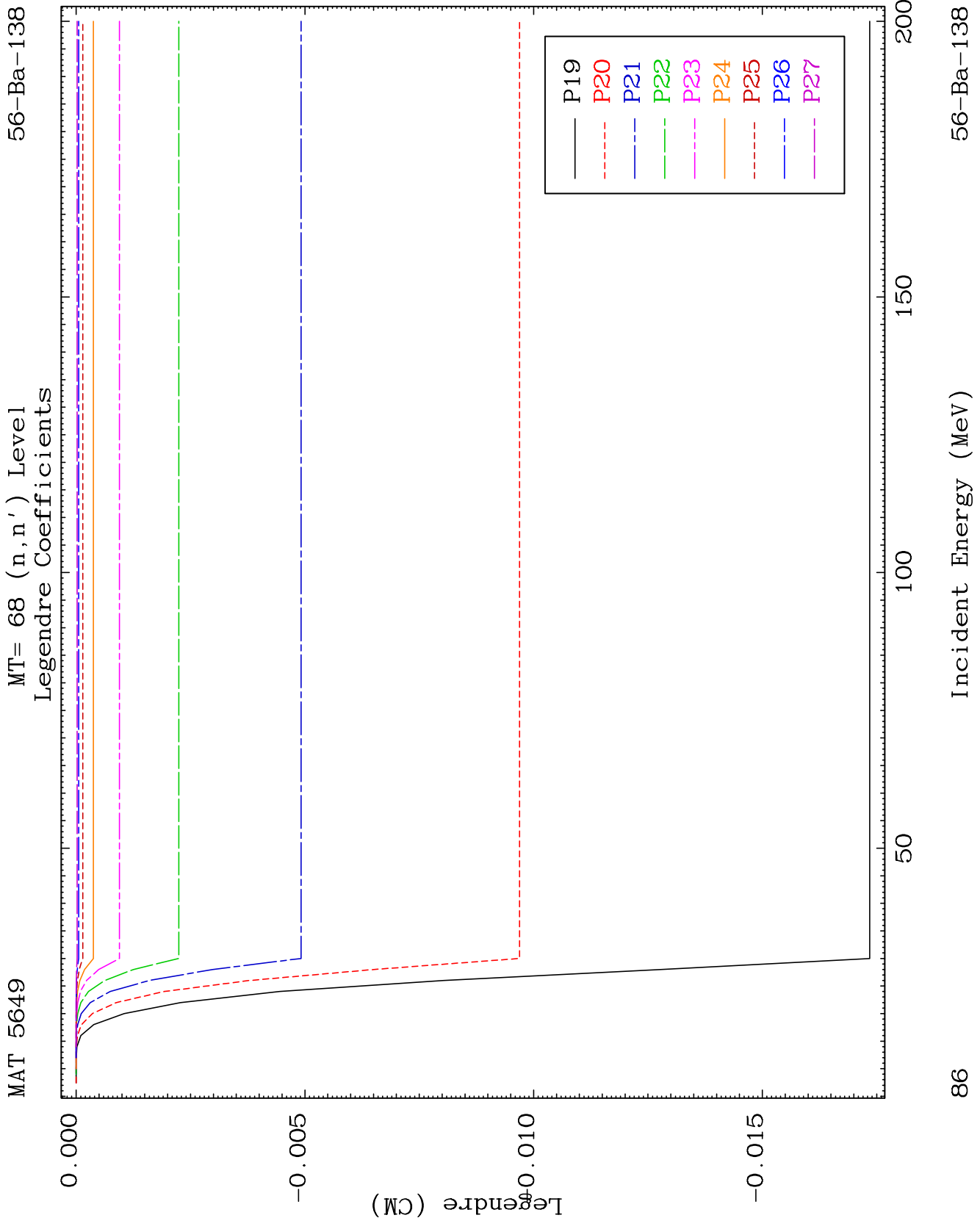
56-Ba-138

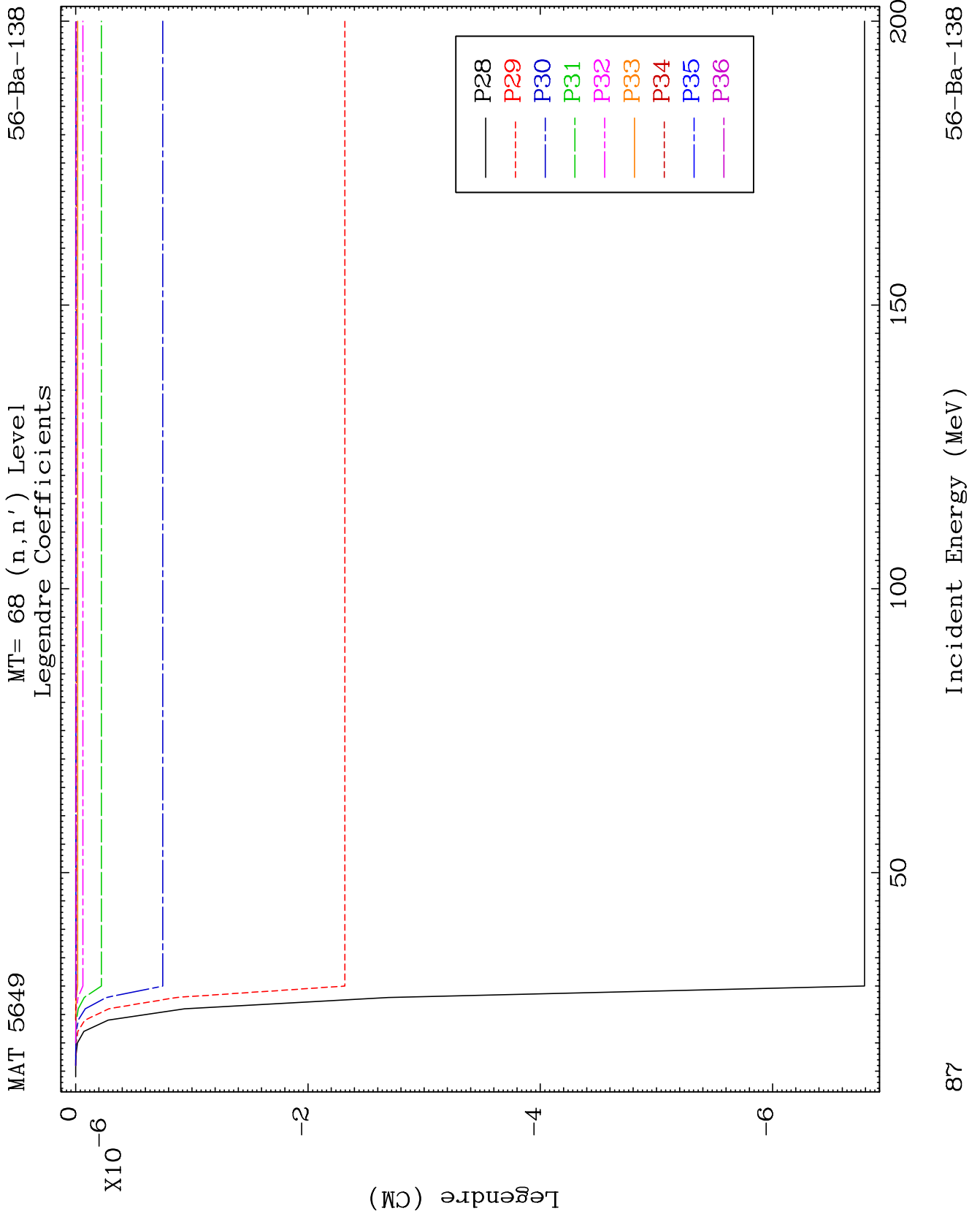


56-Ba-138

Incident Energy (MeV)

85



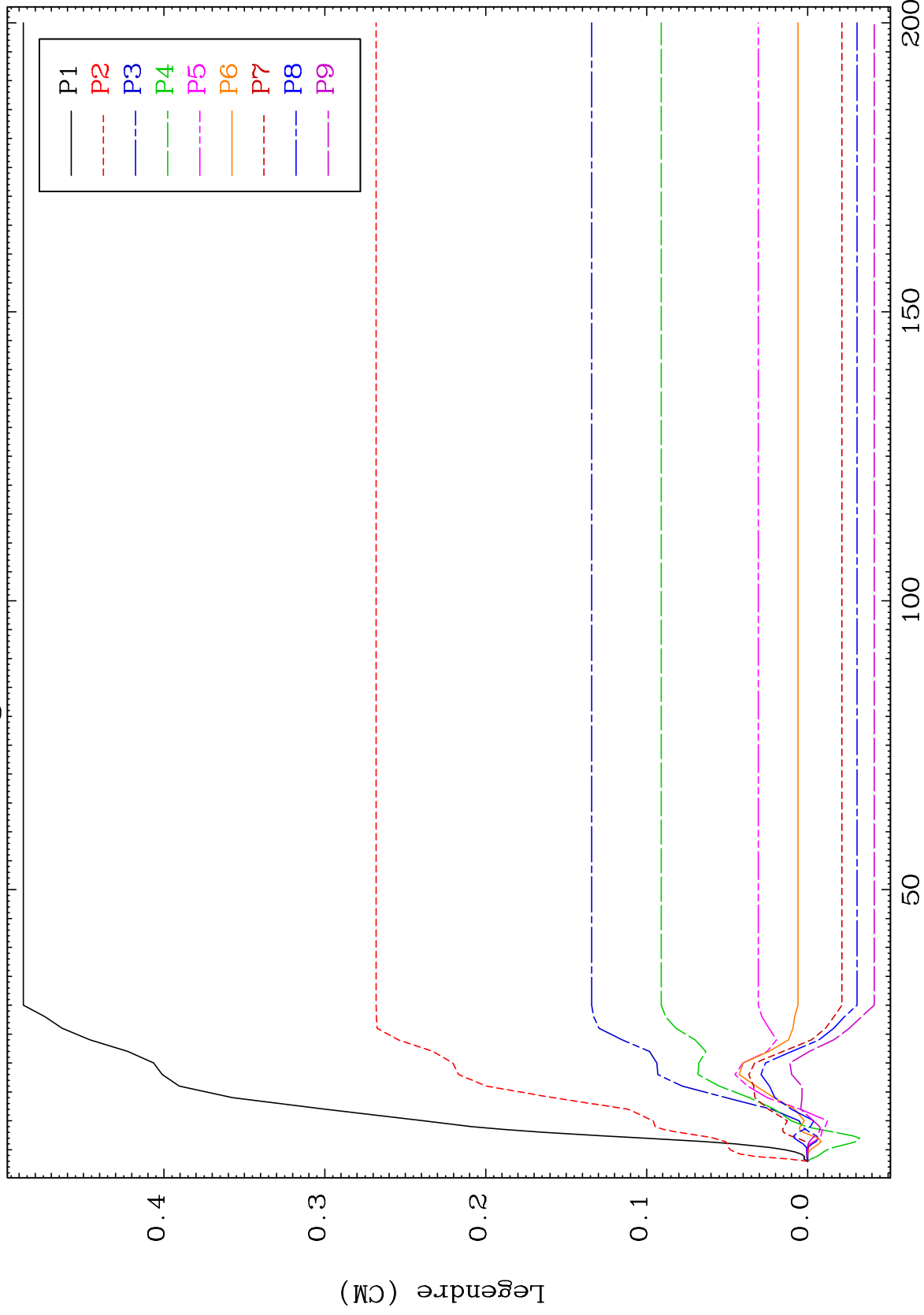




MAT 5649

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

56-Ba-138



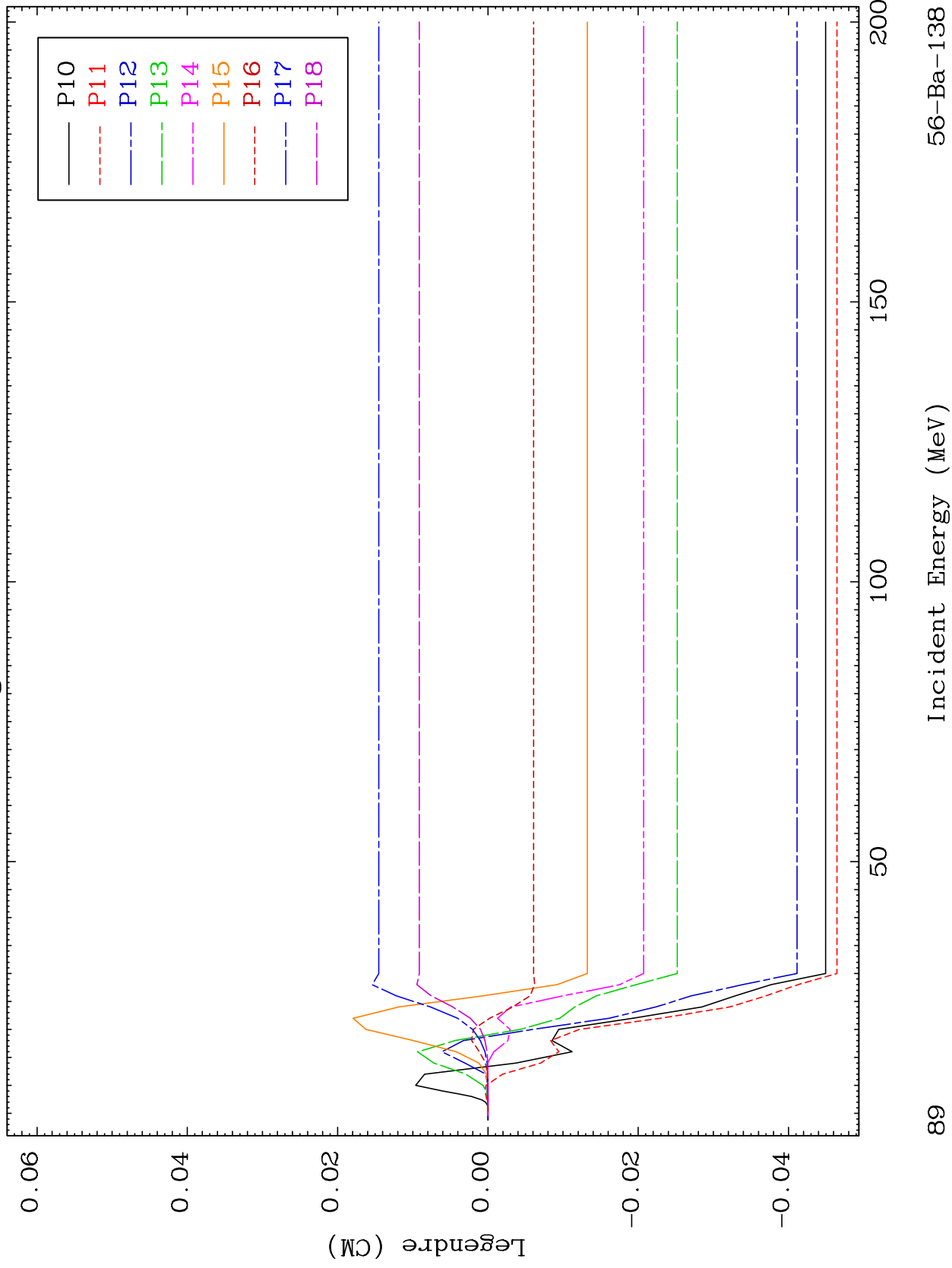
88

56-Ba-138

MAT 5649

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

56-Ba-138



89

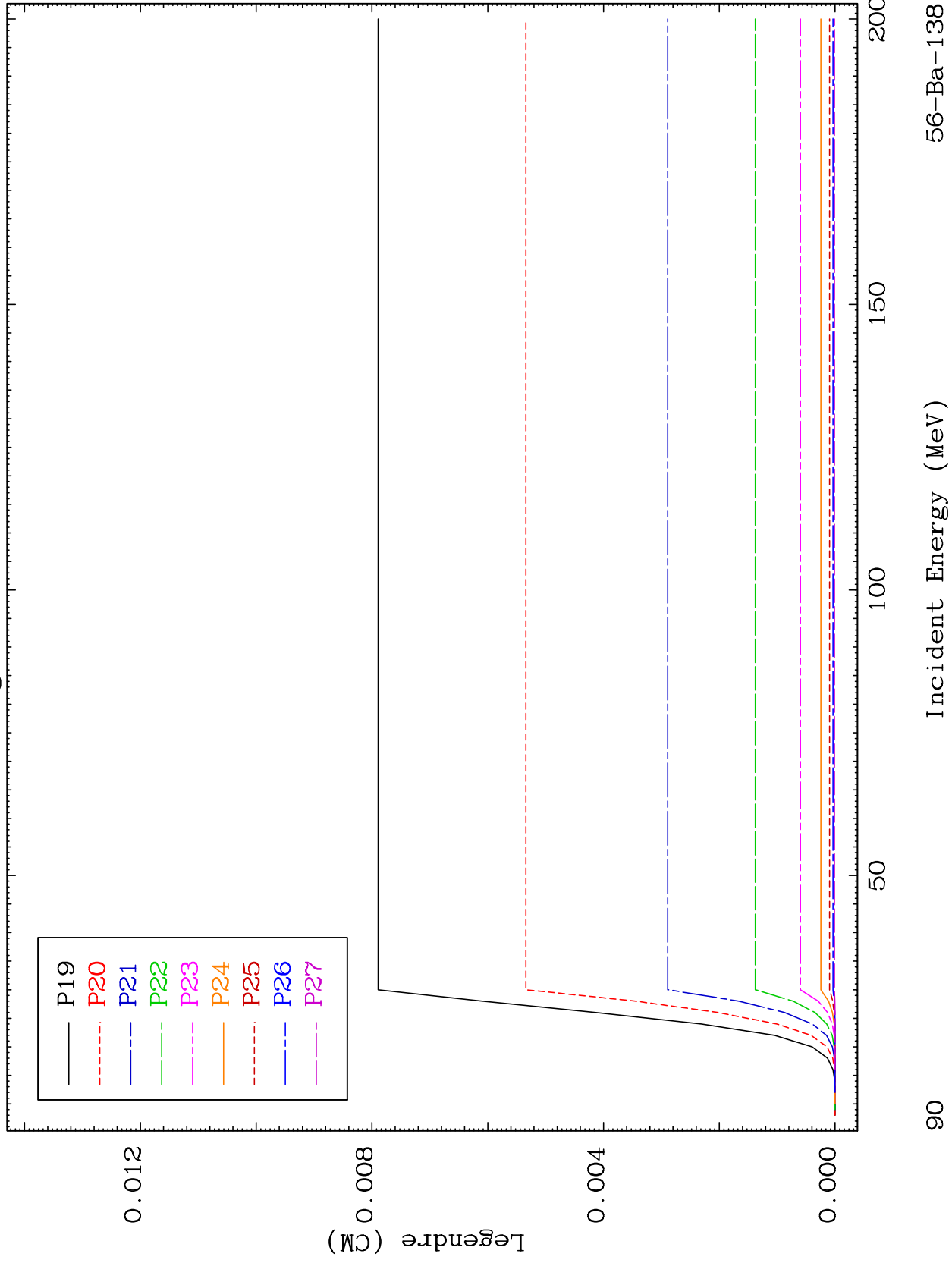
Incident Energy (MeV)

56-Ba-138

MAT 5649

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

56-Ba-138



56-Ba-138

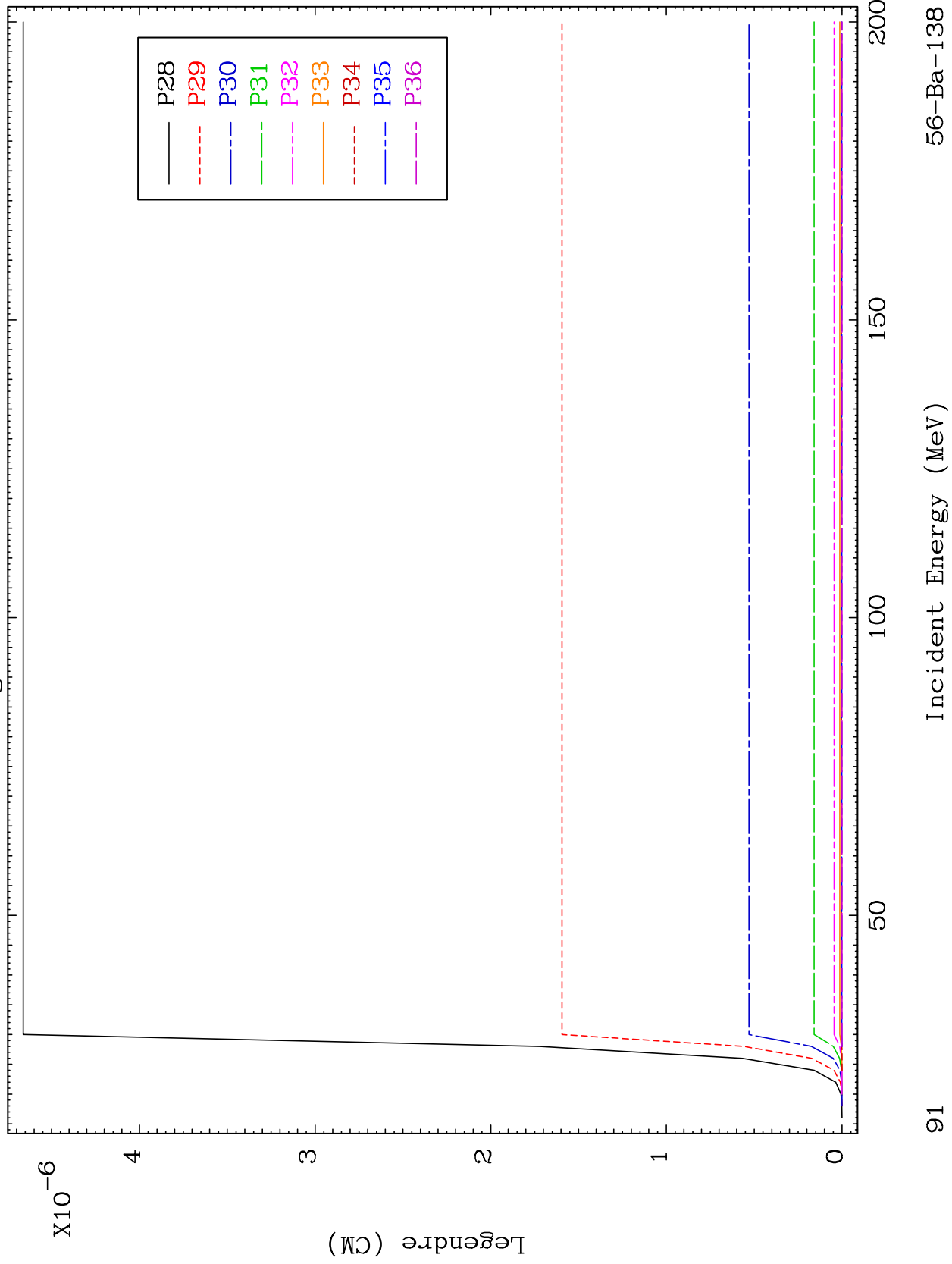
Incident Energy (MeV)

90

MAT 5649

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

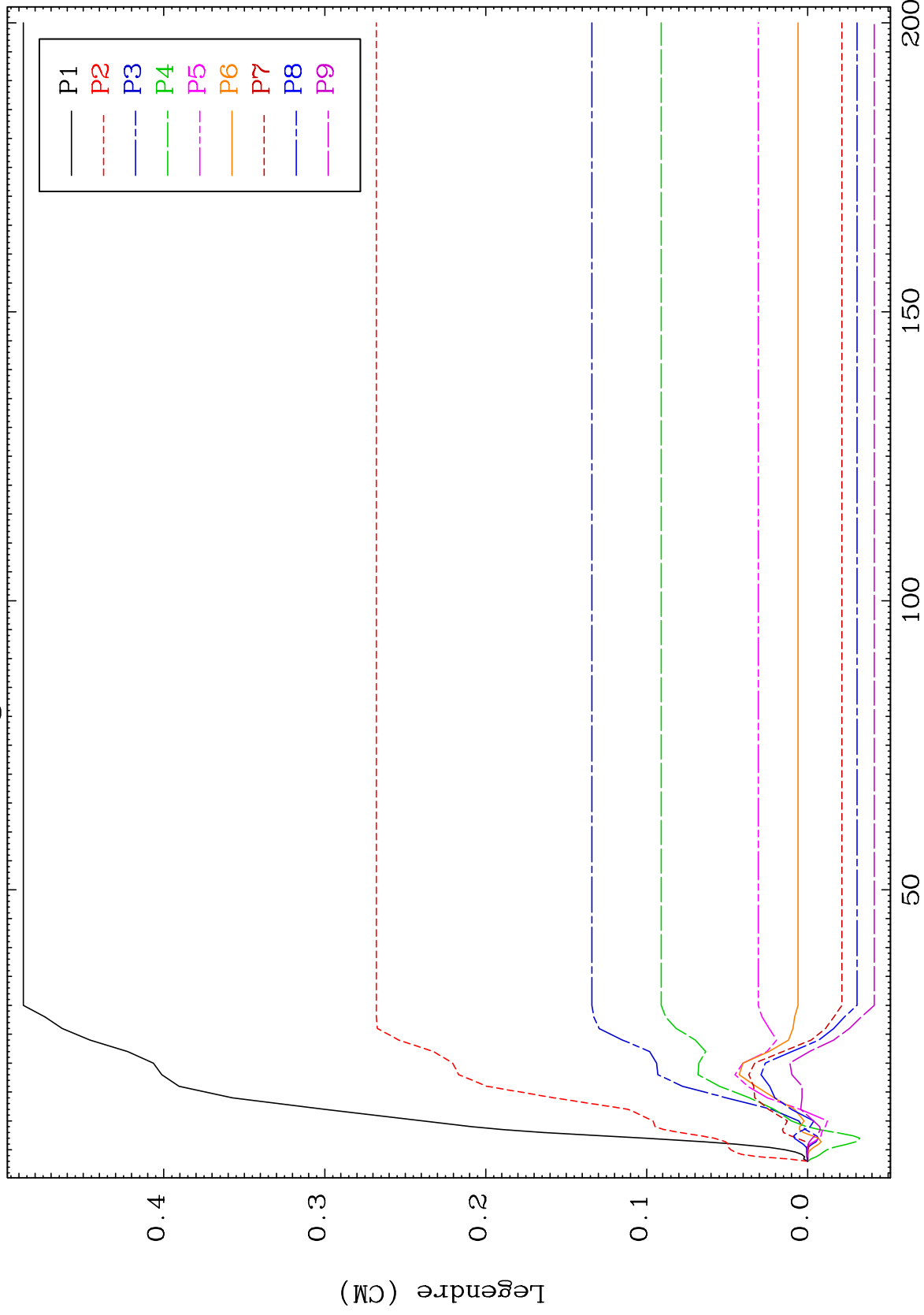
56-Ba-138



MAT 5649

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

56-Ba-138



92

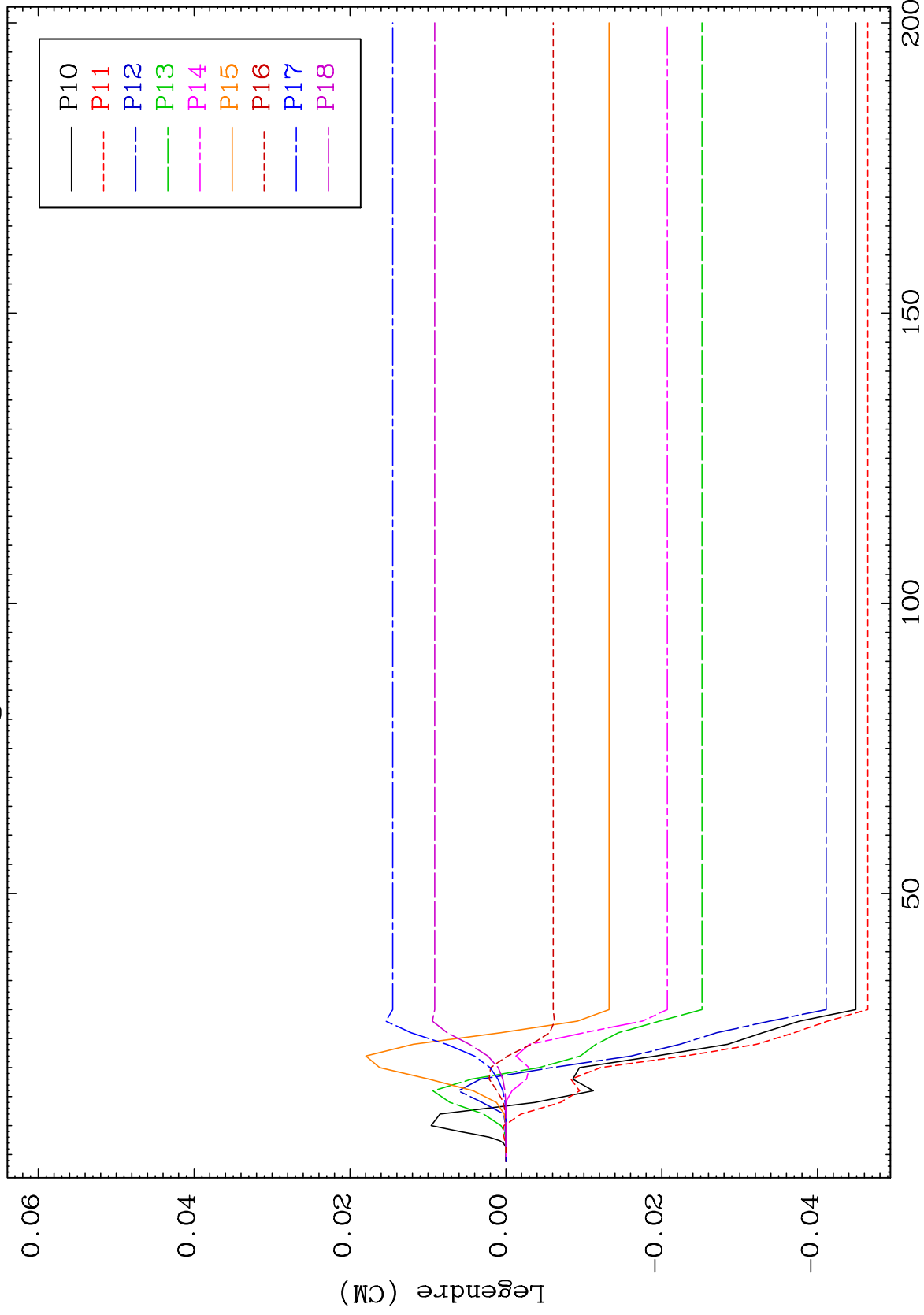
Incident Energy (MeV)

56-Ba-138

MAT 5649

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

56-Ba-138



93

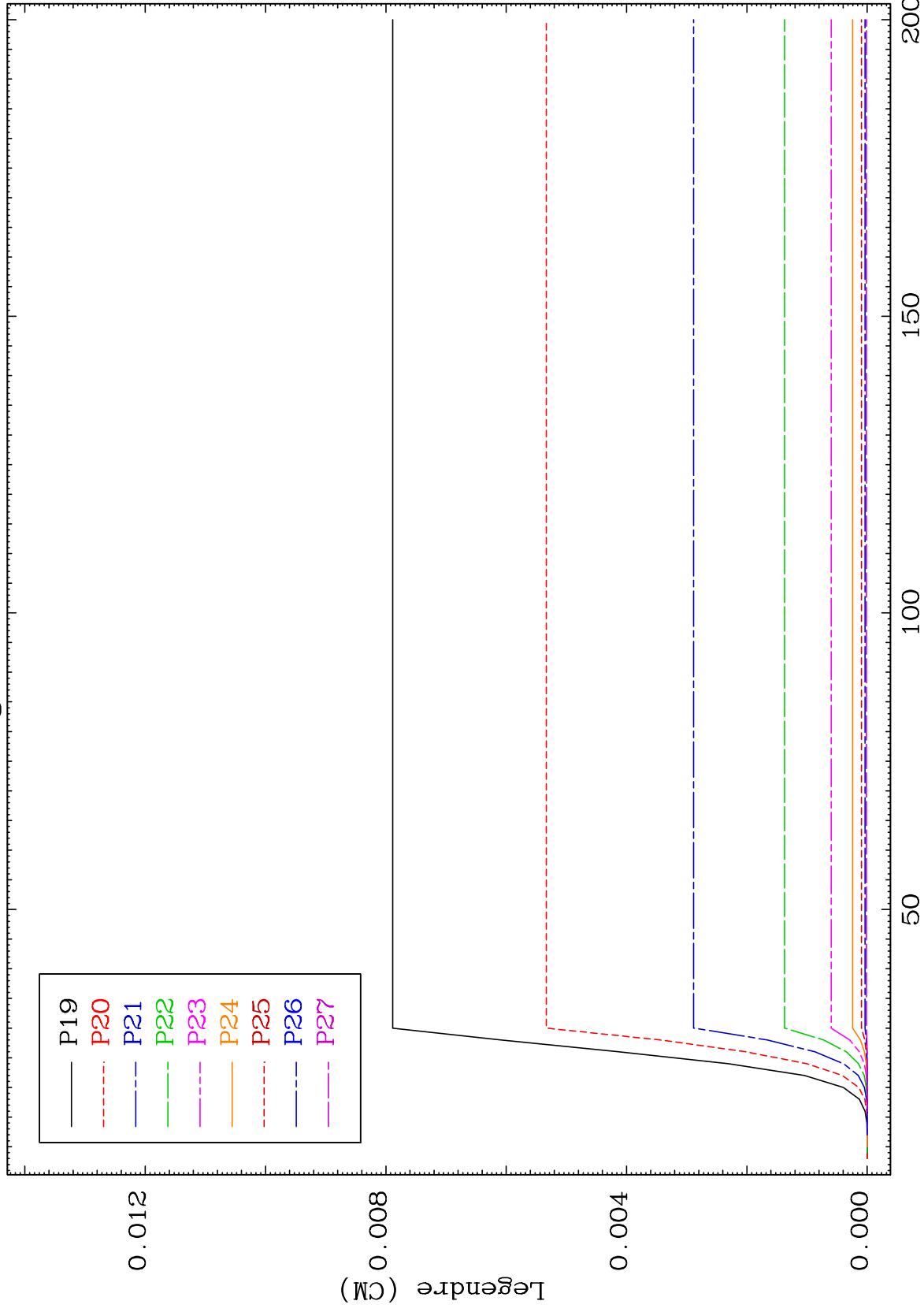
Incident Energy (MeV)

56-Ba-138

MAT 5649

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

56-Ba-138



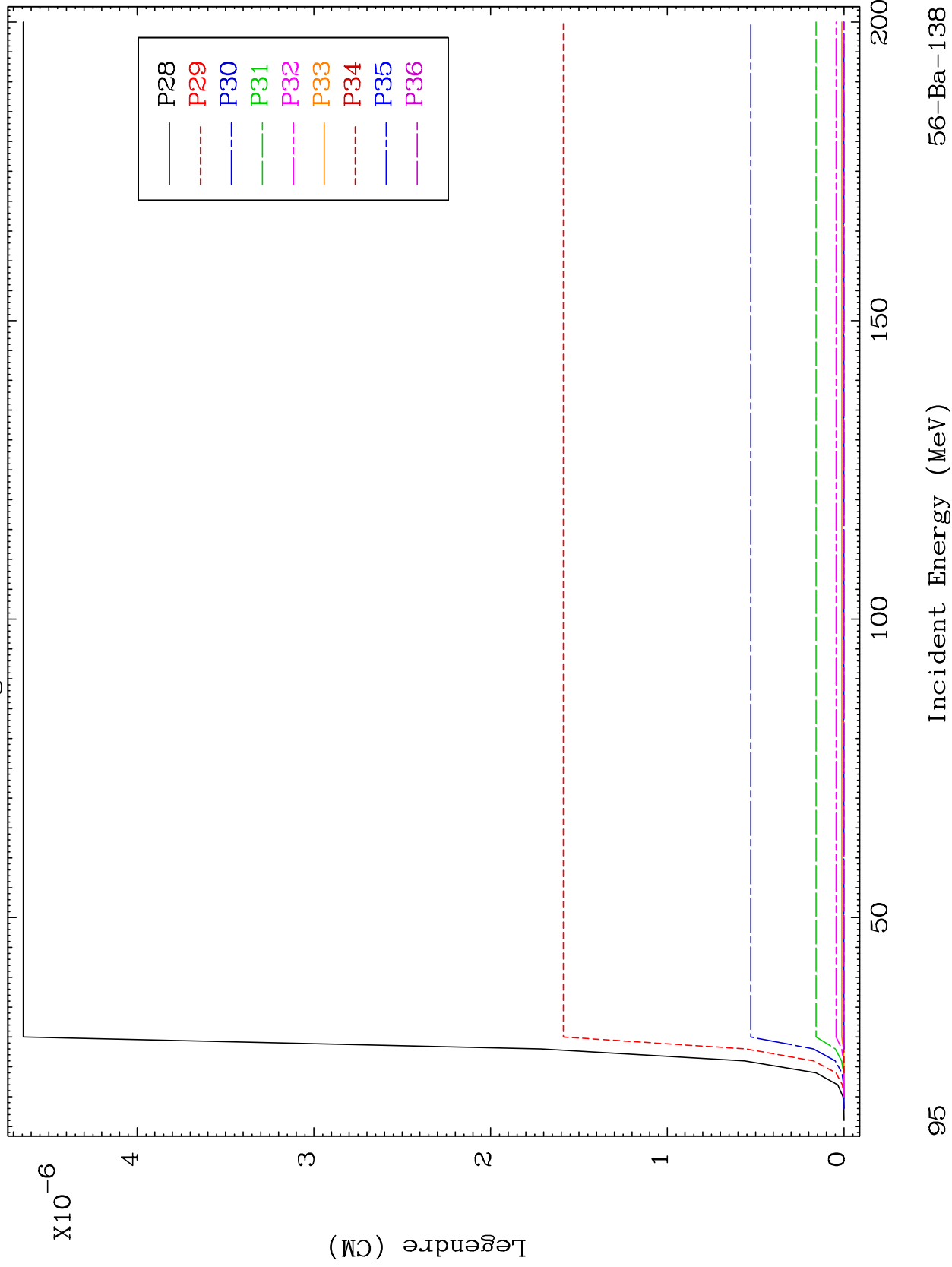
94

56-Ba-138

MAT 5649

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

56-Ba-138



95

Incident Energy (MeV)

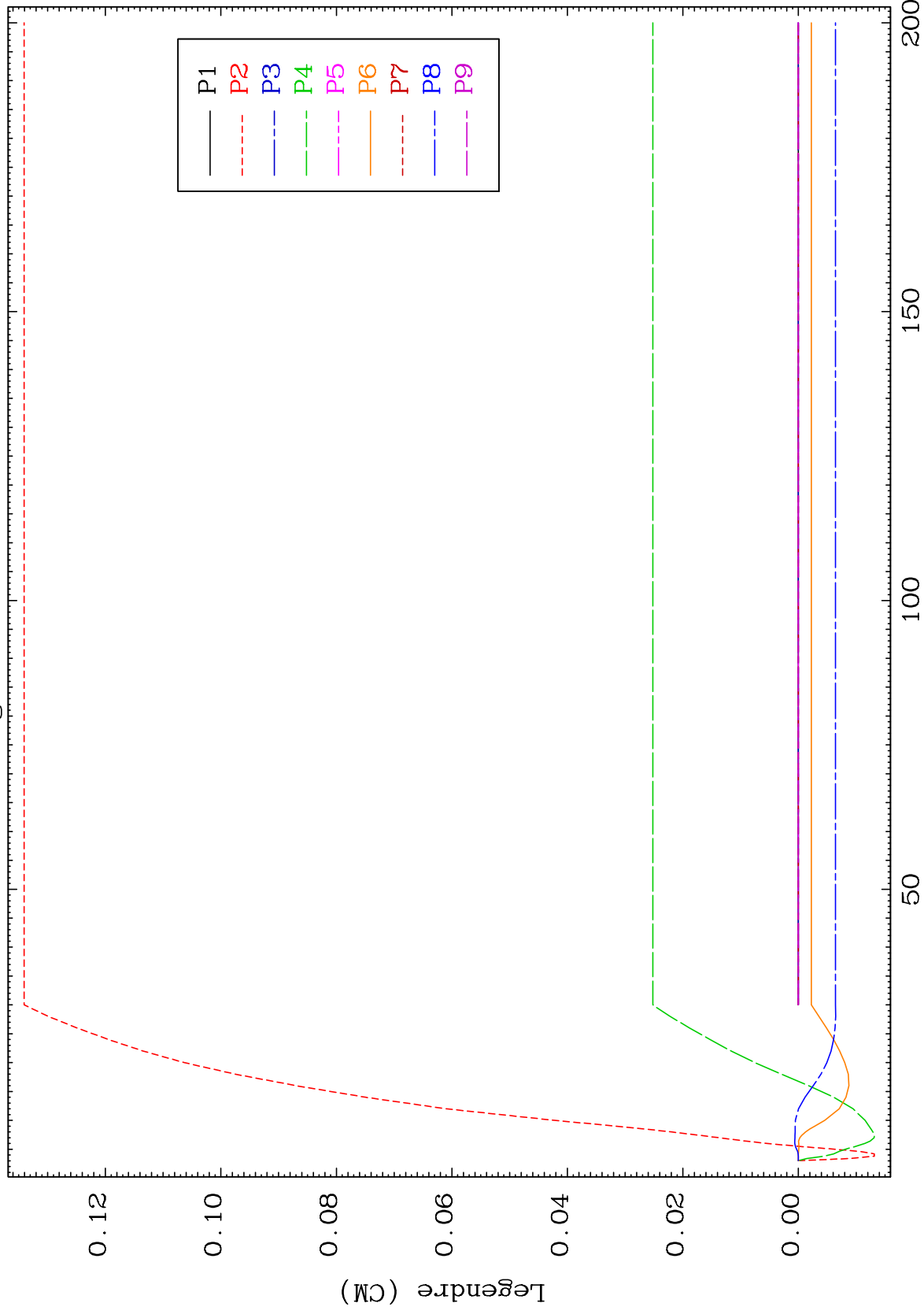
56-Ba-138



MAT 5649

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

56-Ba-138



96

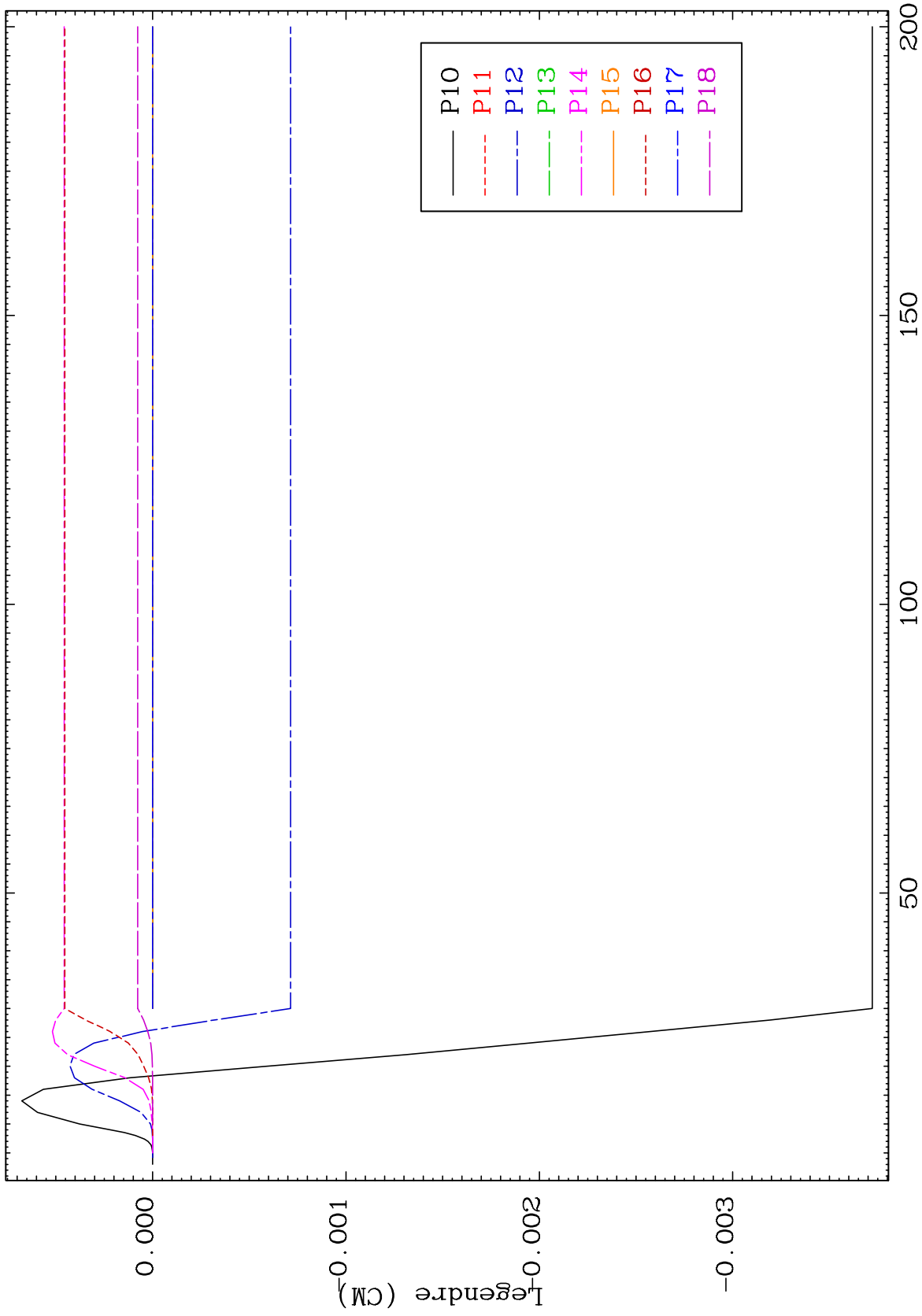
Incident Energy (MeV)

56-Ba-138

MAT 5649

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

56-Ba-138



97

Incident Energy (MeV)

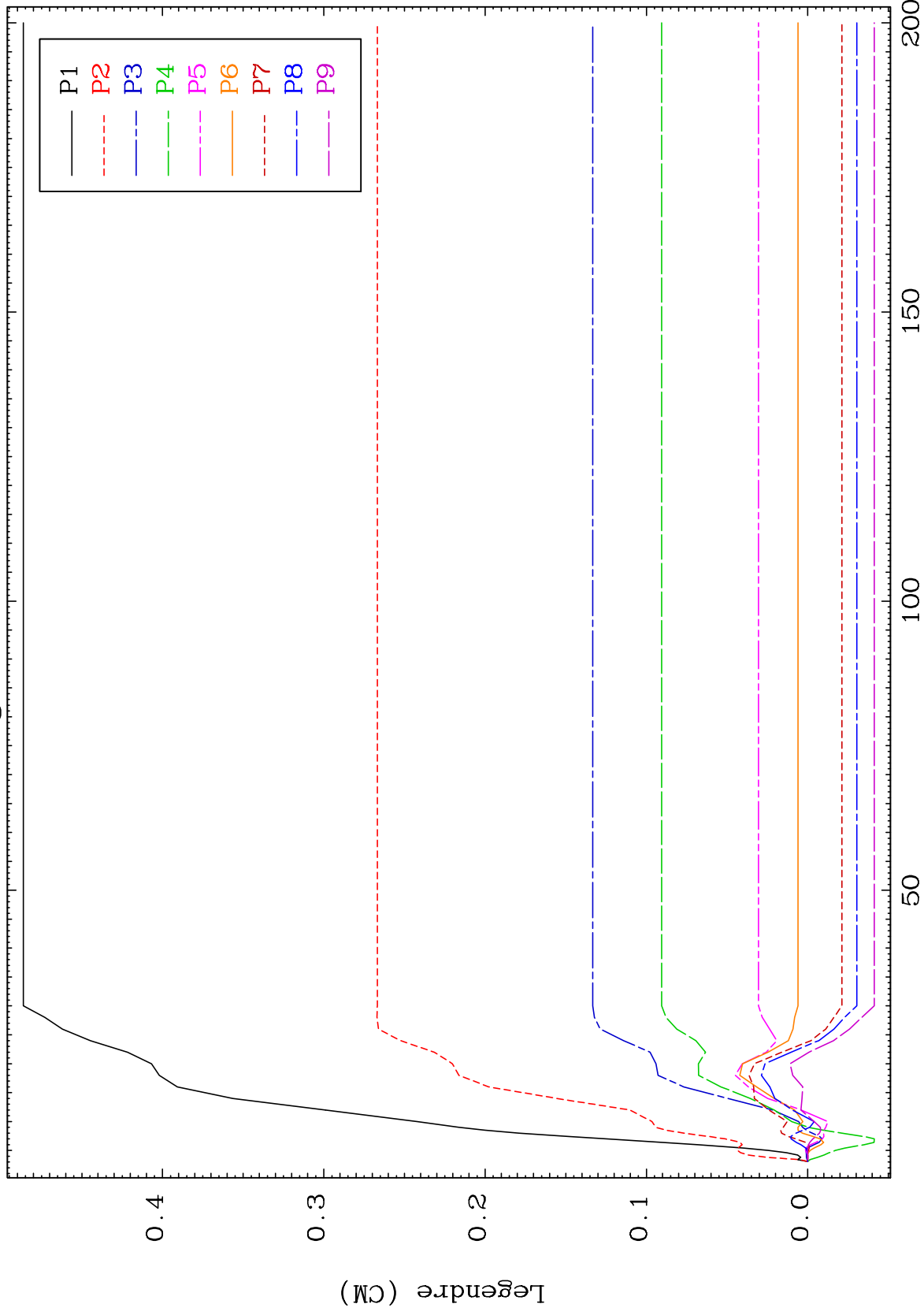
56-Ba-138



MAT 5649

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

56-Ba-138



99

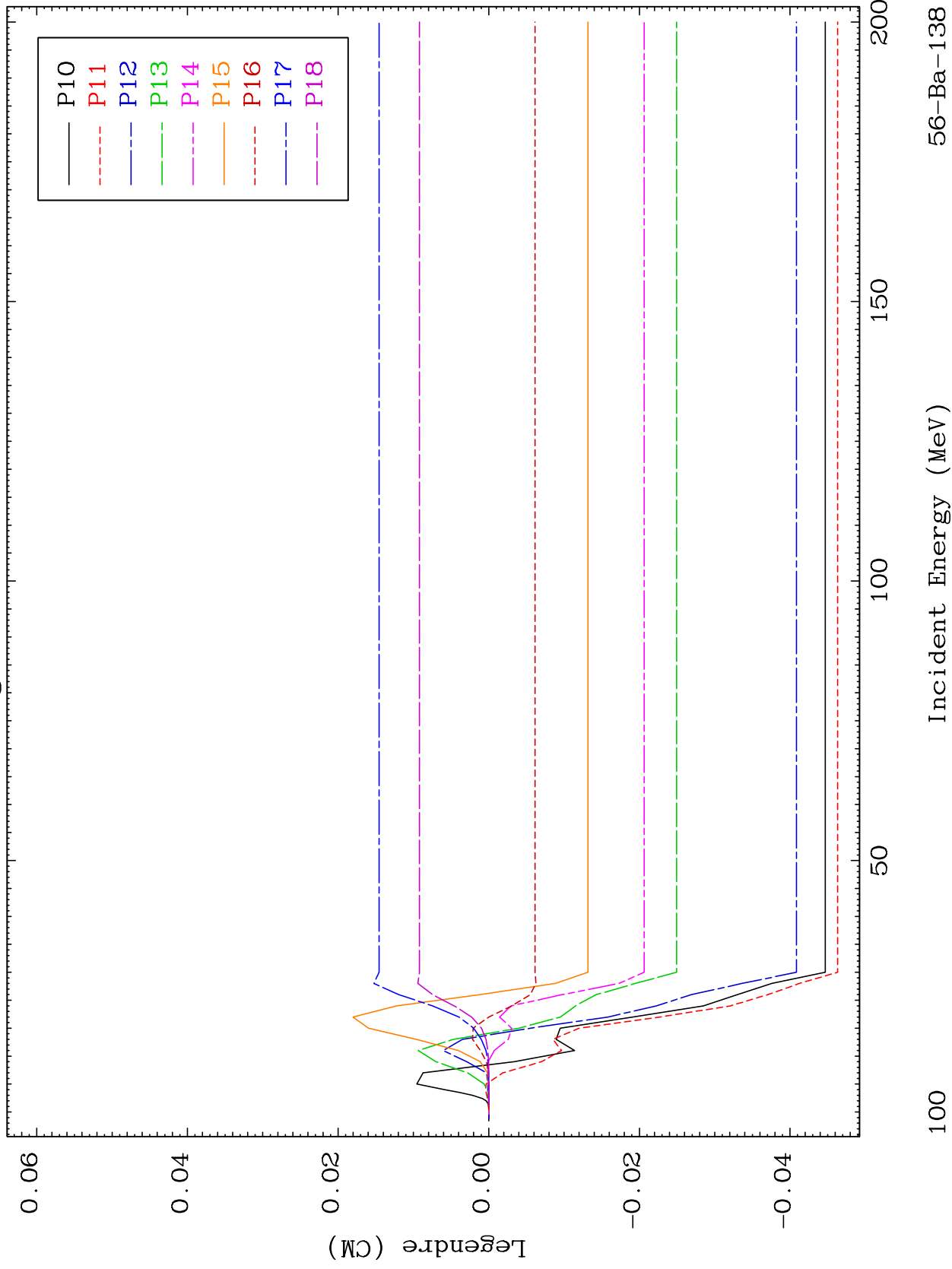
Incident Energy (MeV)

56-Ba-138

MAT 5649

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

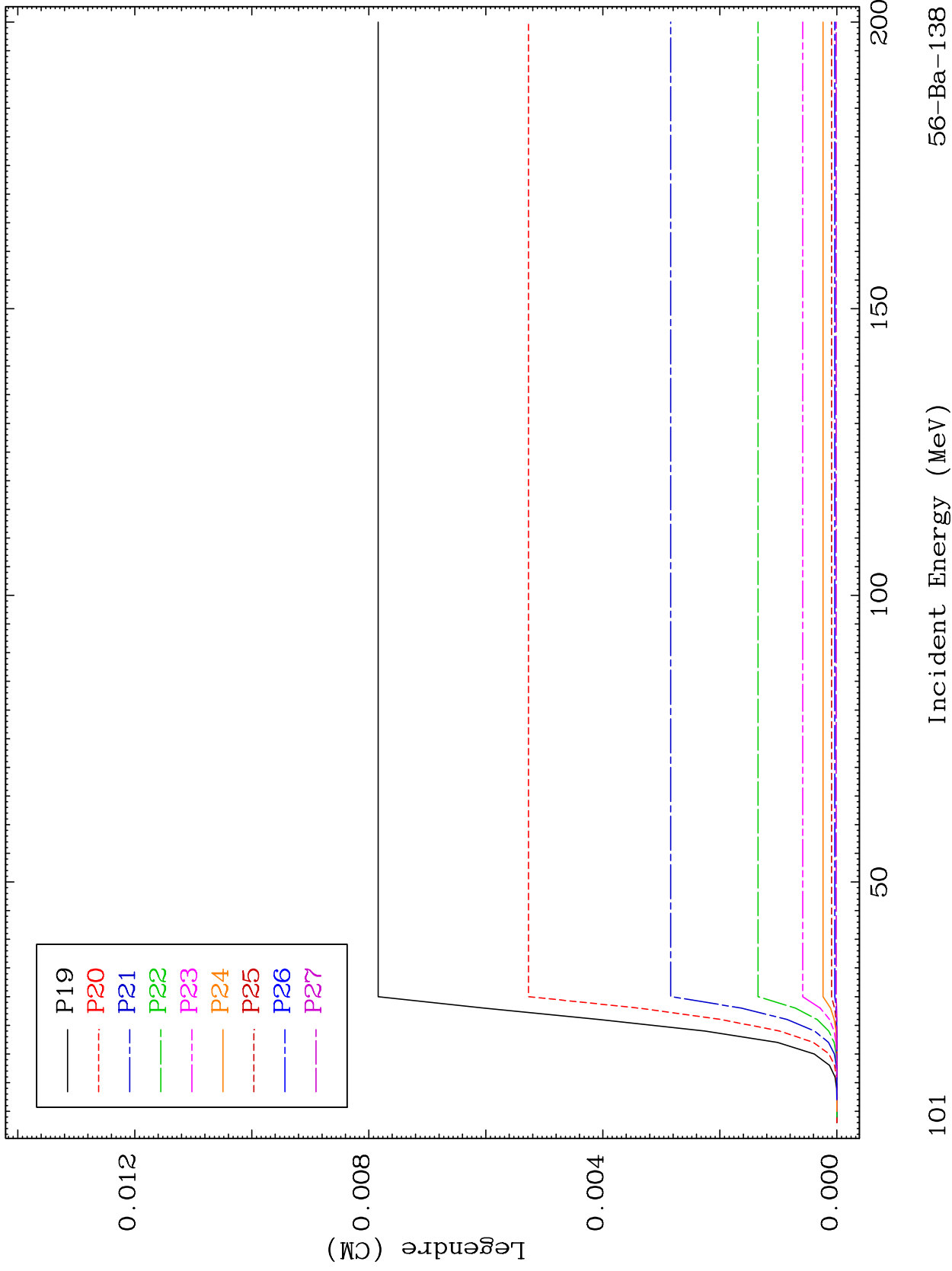
56-Ba-138



MAT 5649

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

56-Ba-138



101

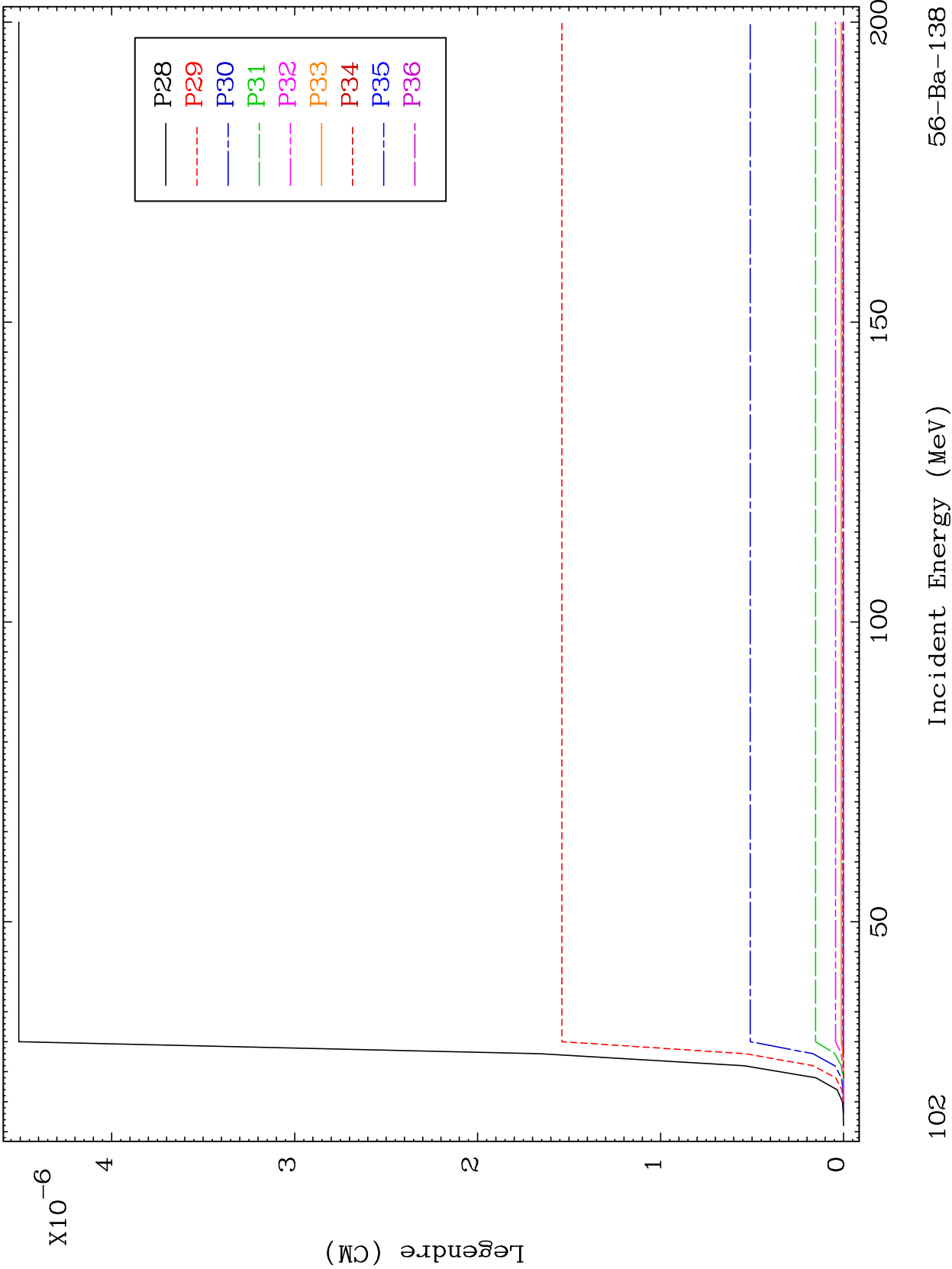
Incident Energy (MeV)

56-Ba-138

MAT 5649

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

56-Ba-138



102

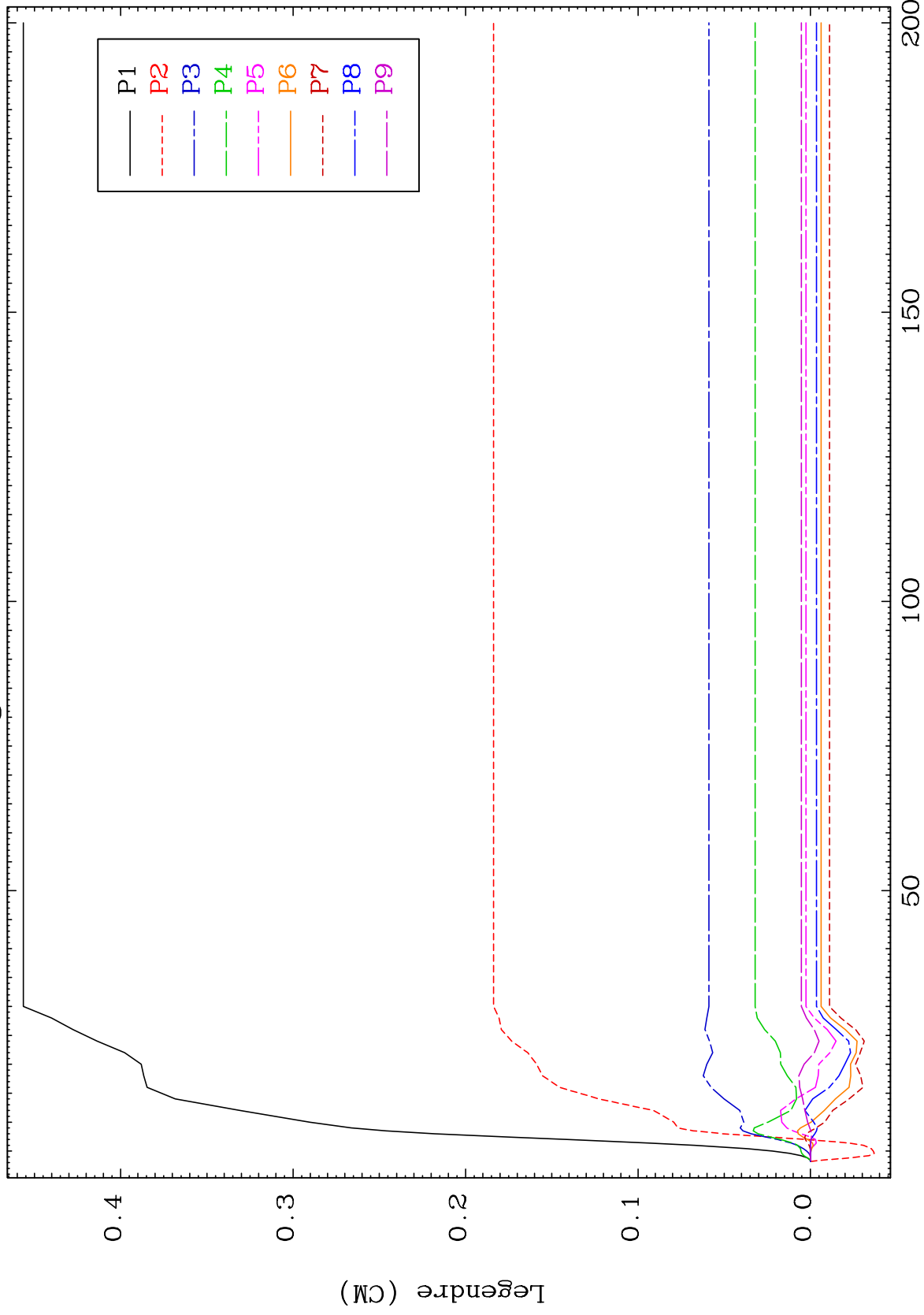
Incident Energy (MeV)

56-Ba-138

MAT 5649

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

56-Ba-138



103

Incident Energy (MeV)

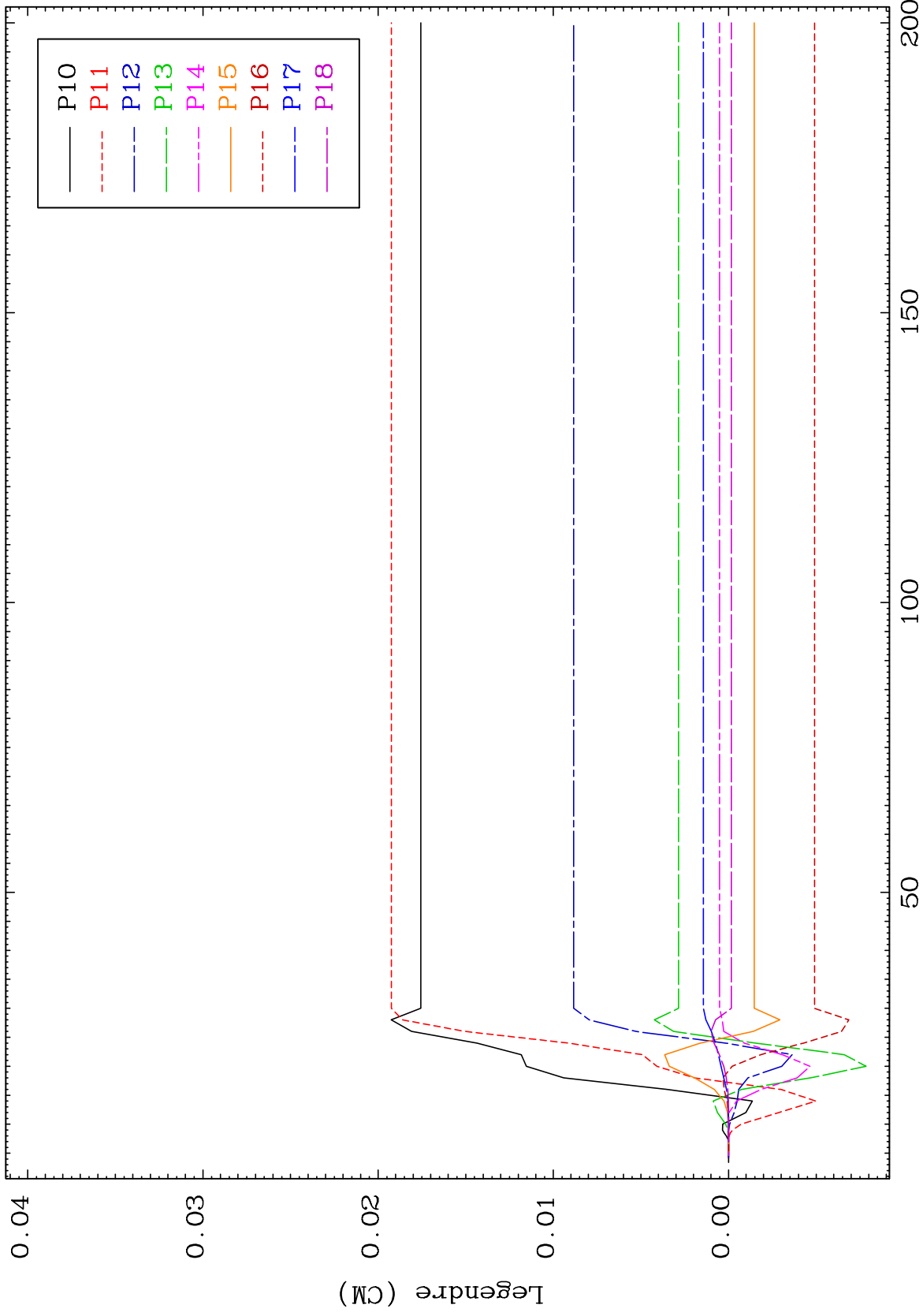
56-Ba-138



MAT 5649

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

56-Ba-138



104

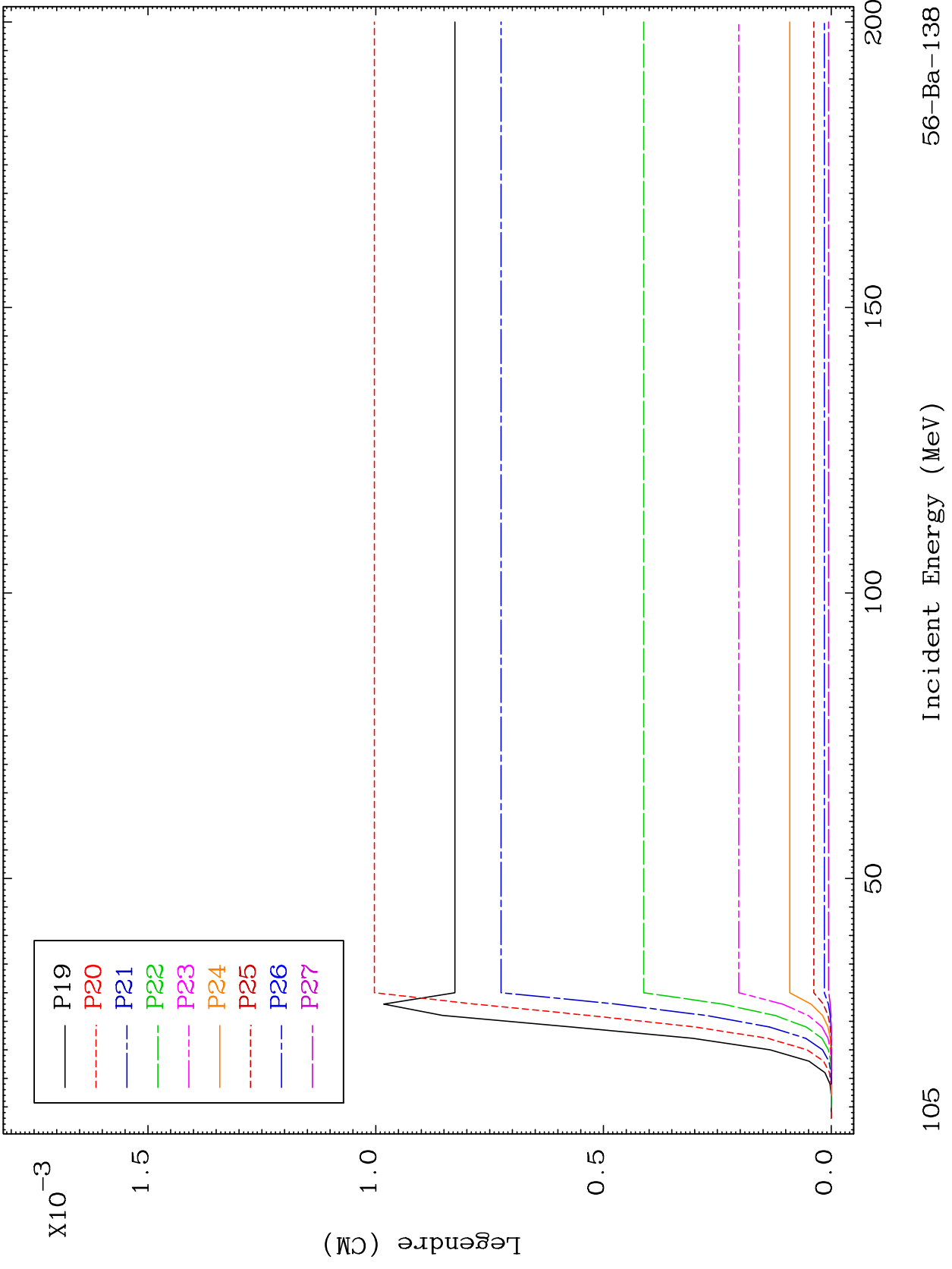
Incident Energy (MeV)

56-Ba-138

MAT 5649

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

56-Ba-138



105

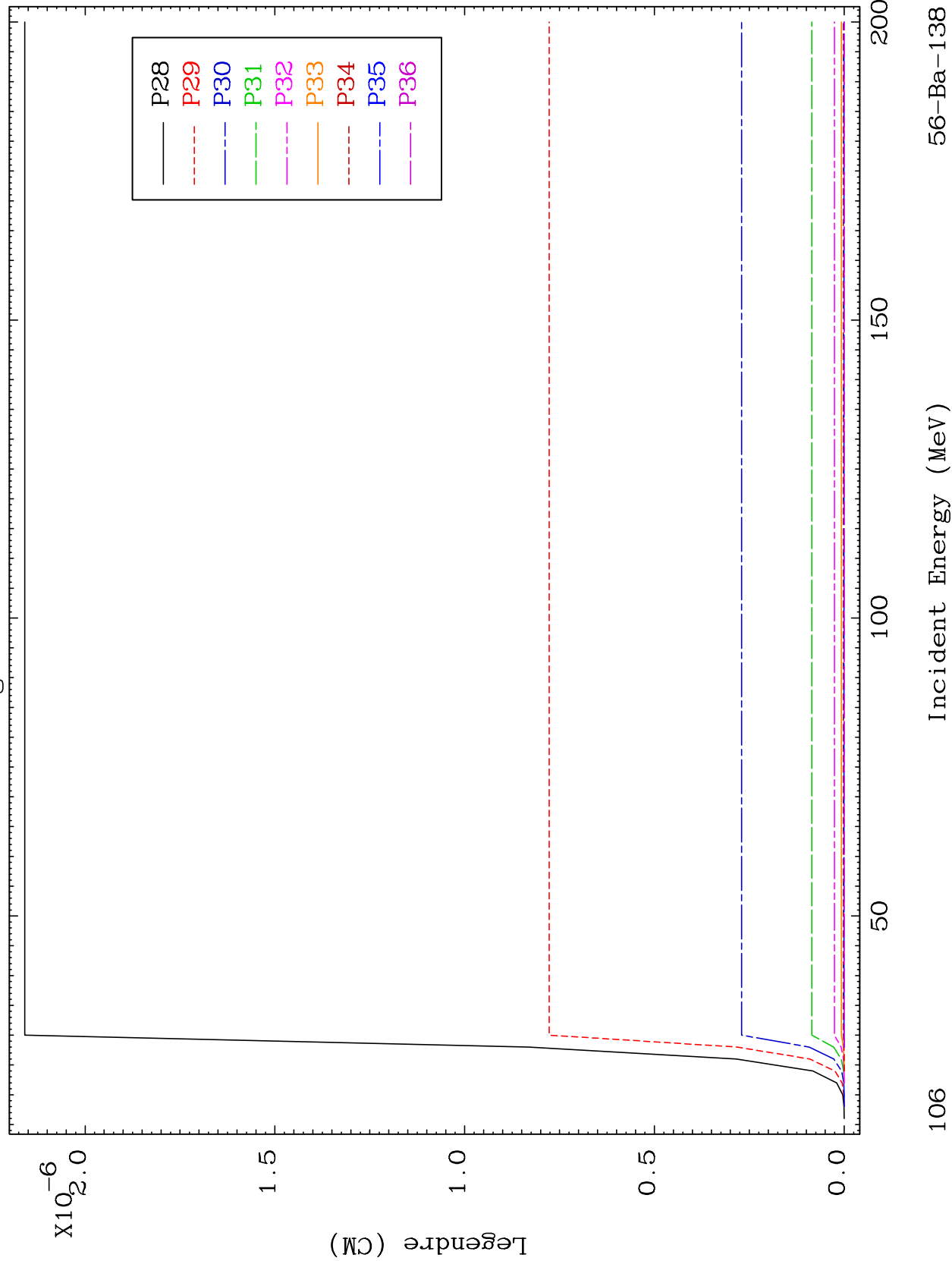
Incident Energy (MeV)

56-Ba-138

MAT 5649

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

56-Ba-138



106

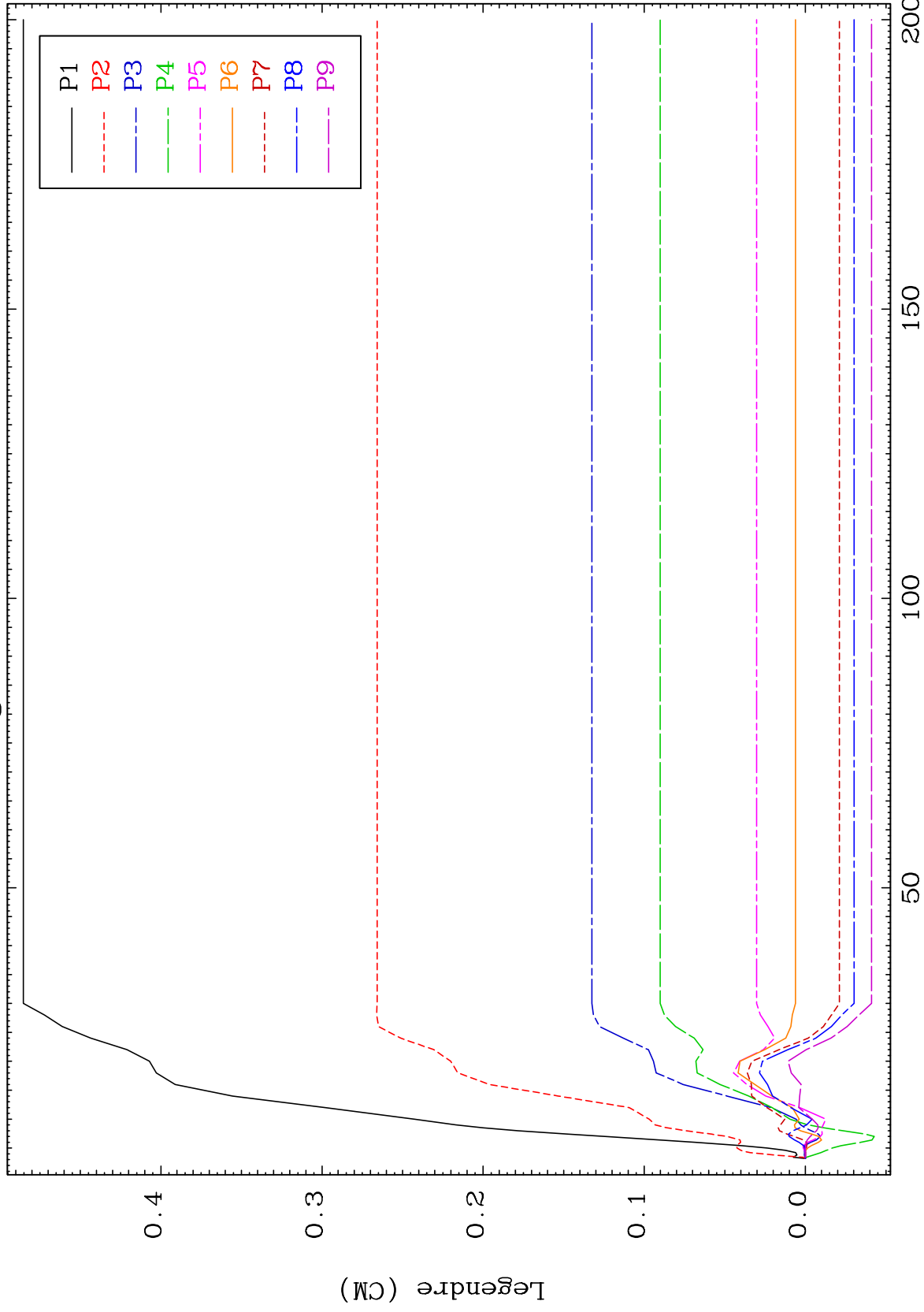
Incident Energy (MeV)

56-Ba-138

MAT 5649

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

56-Ba-138



107

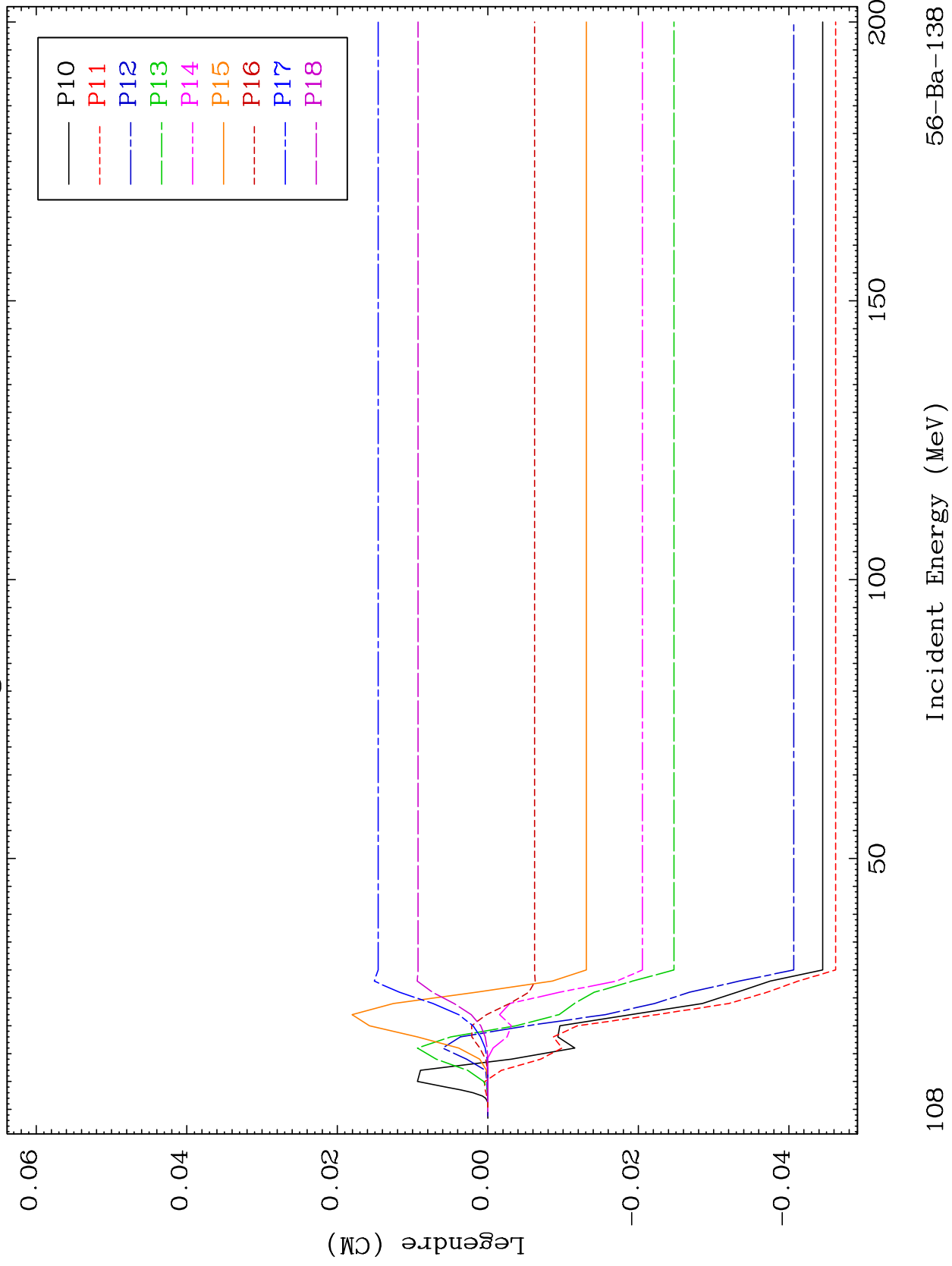
Incident Energy (MeV)

56-Ba-138

MAT 5649

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

56-Ba-138



108

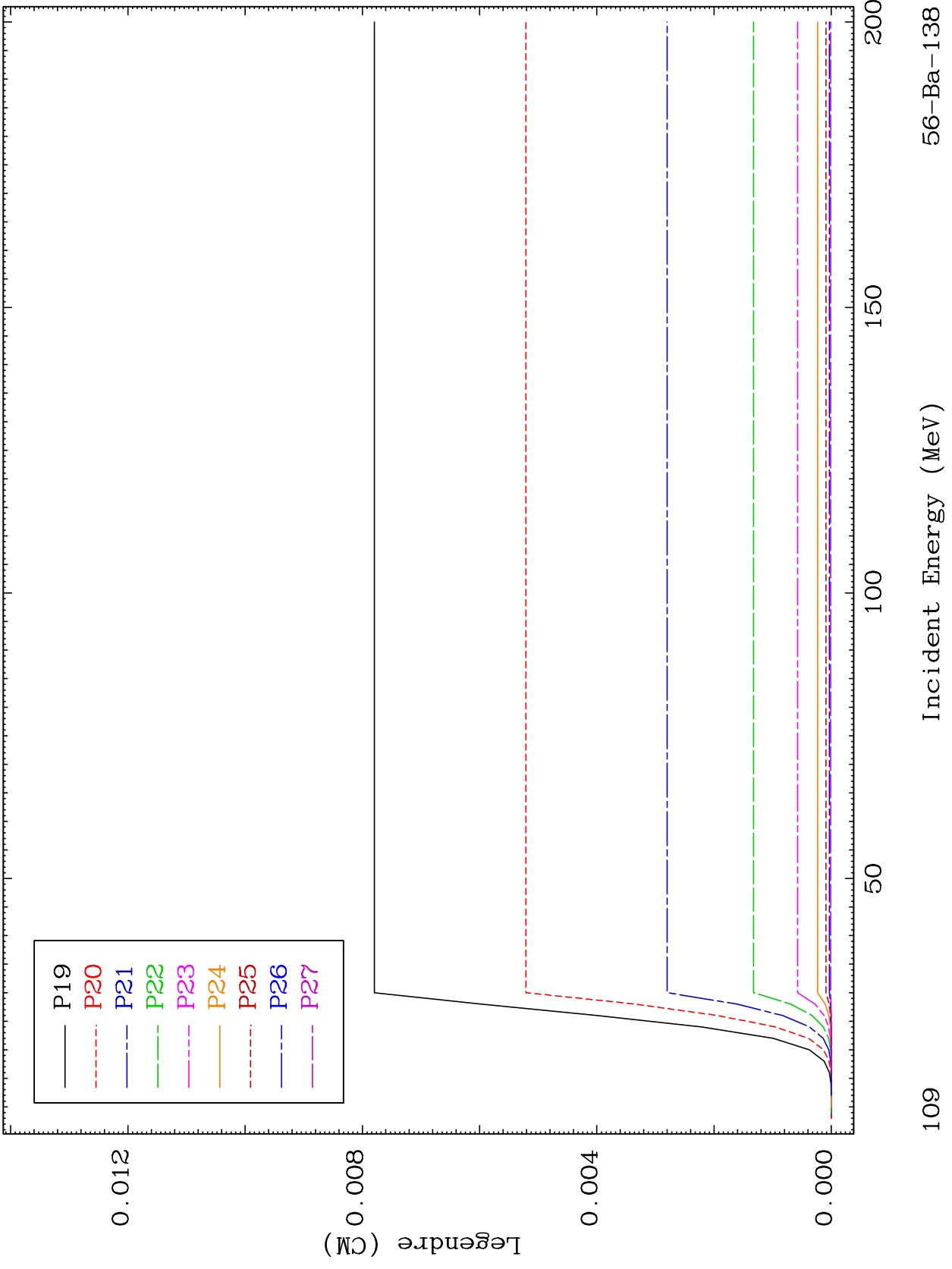
Incident Energy (MeV)

56-Ba-138

MAT 5649

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

56-Ba-138



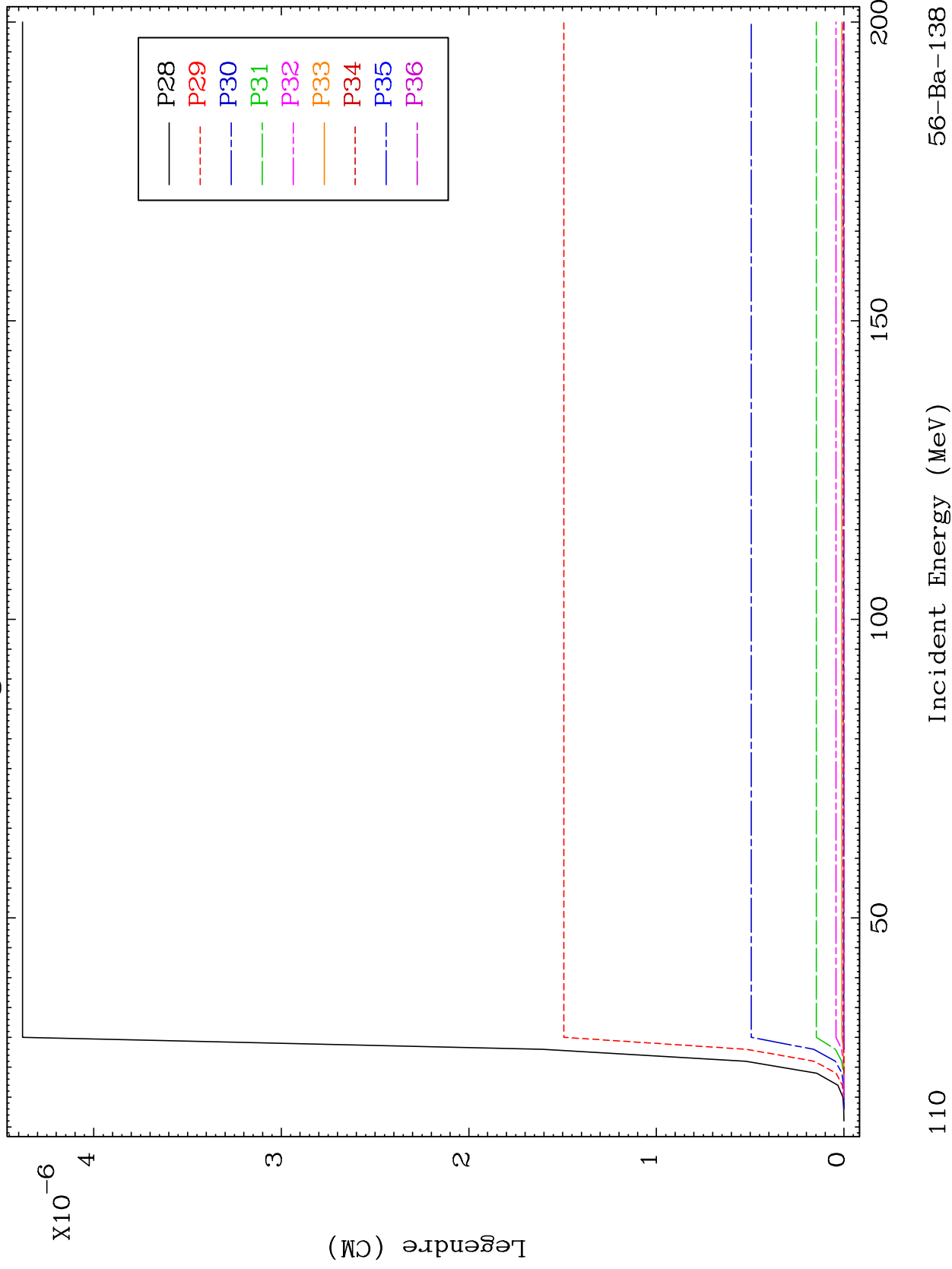
109

56-Ba-138

MAT 5649

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

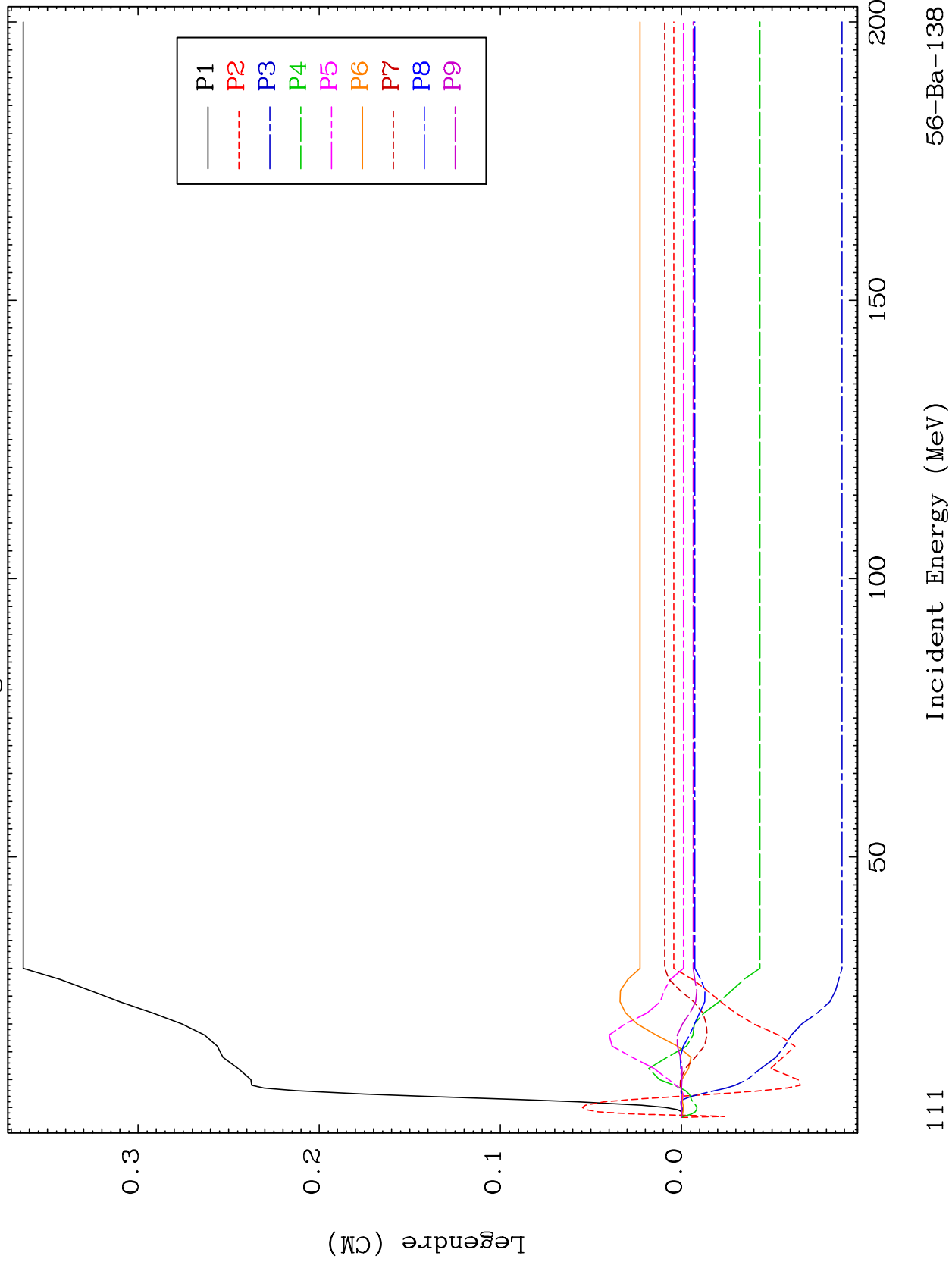
56-Ba-138



MAT 5649

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

56-Ba-138



111

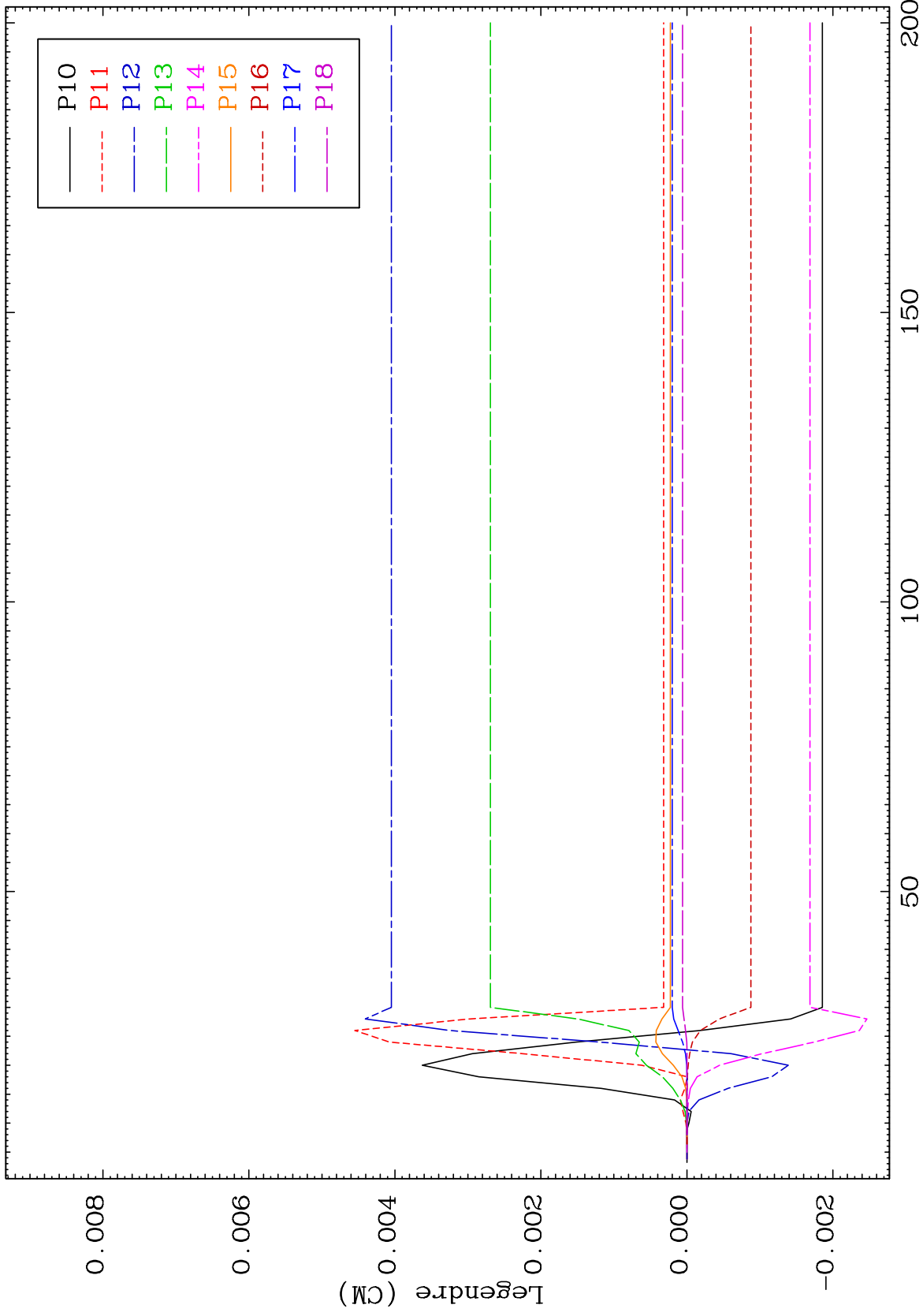
56-Ba-138



MAT 5649

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

56-Ba-138



112

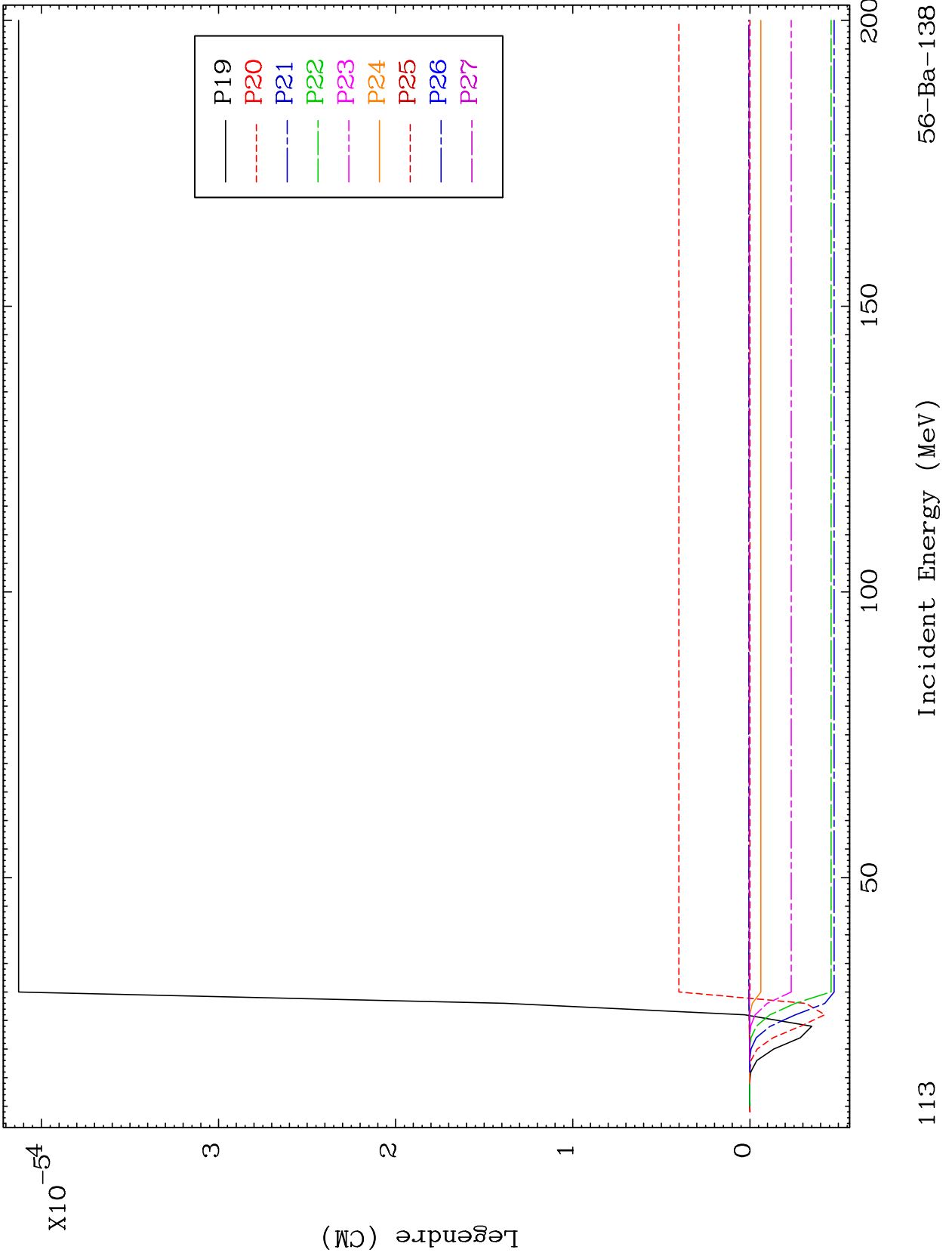
Incident Energy (MeV)

56-Ba-138

MAT 5649

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

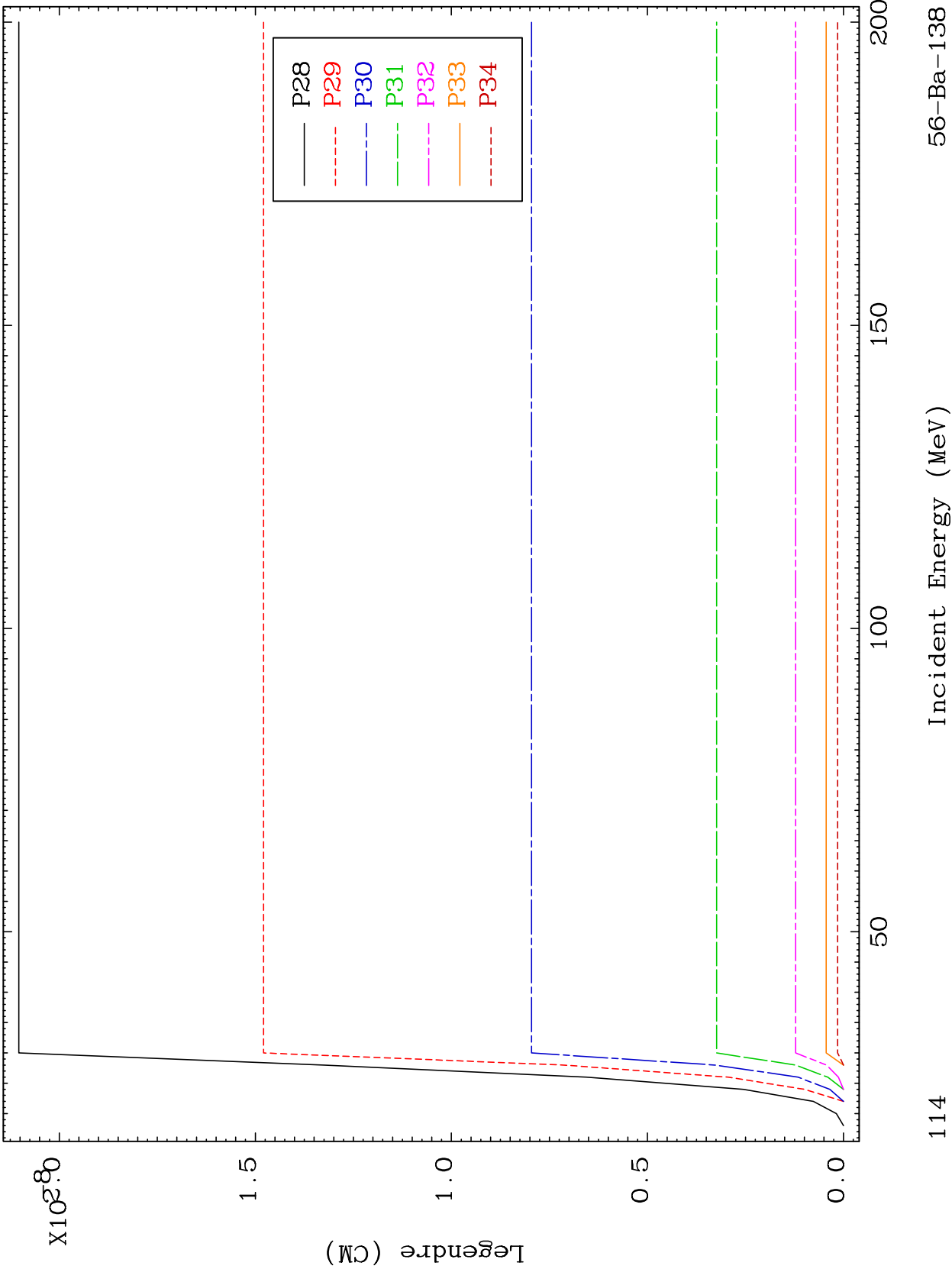
56-Ba-138



MAT 5649

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

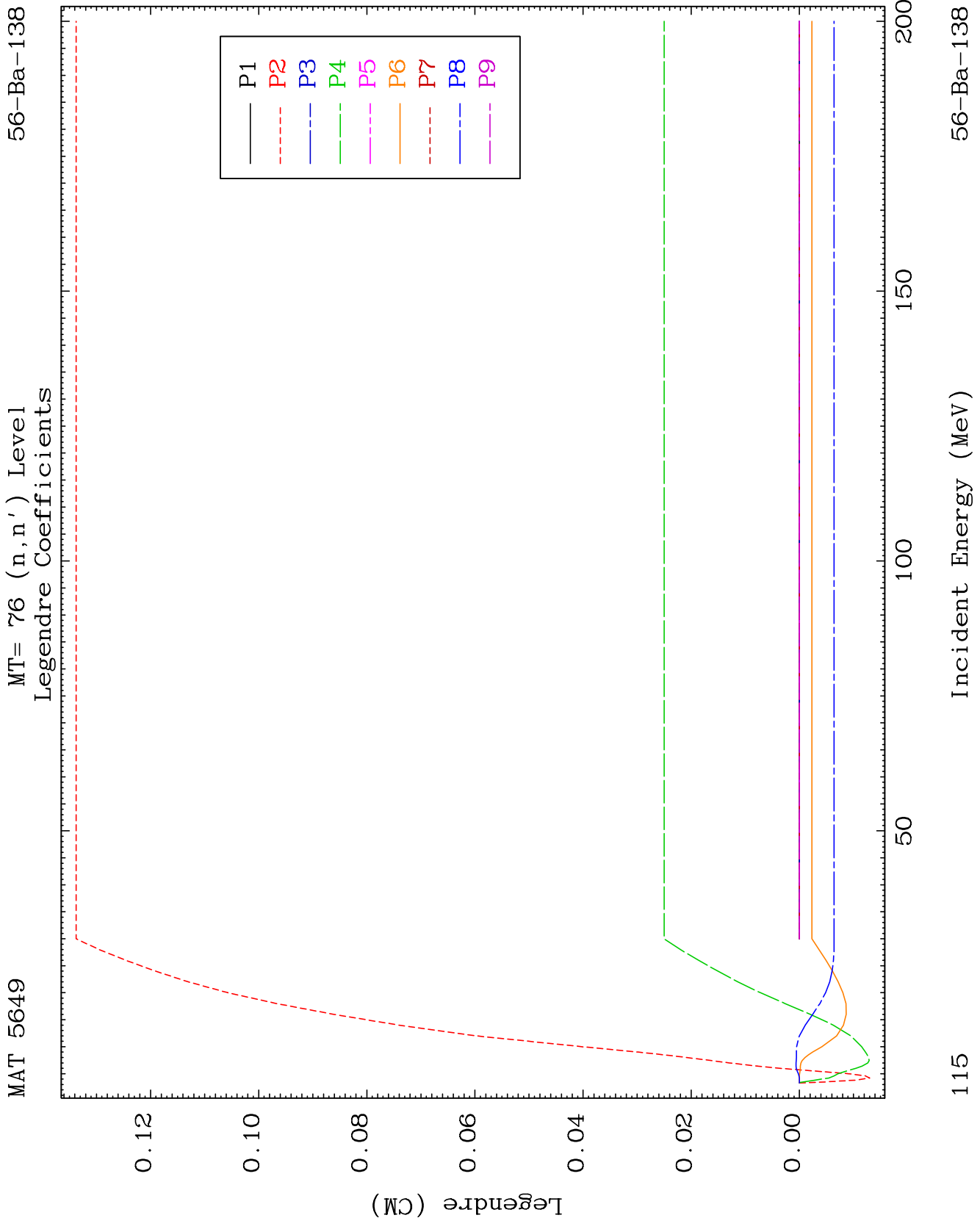
56-Ba-138



114

Incident Energy (MeV)

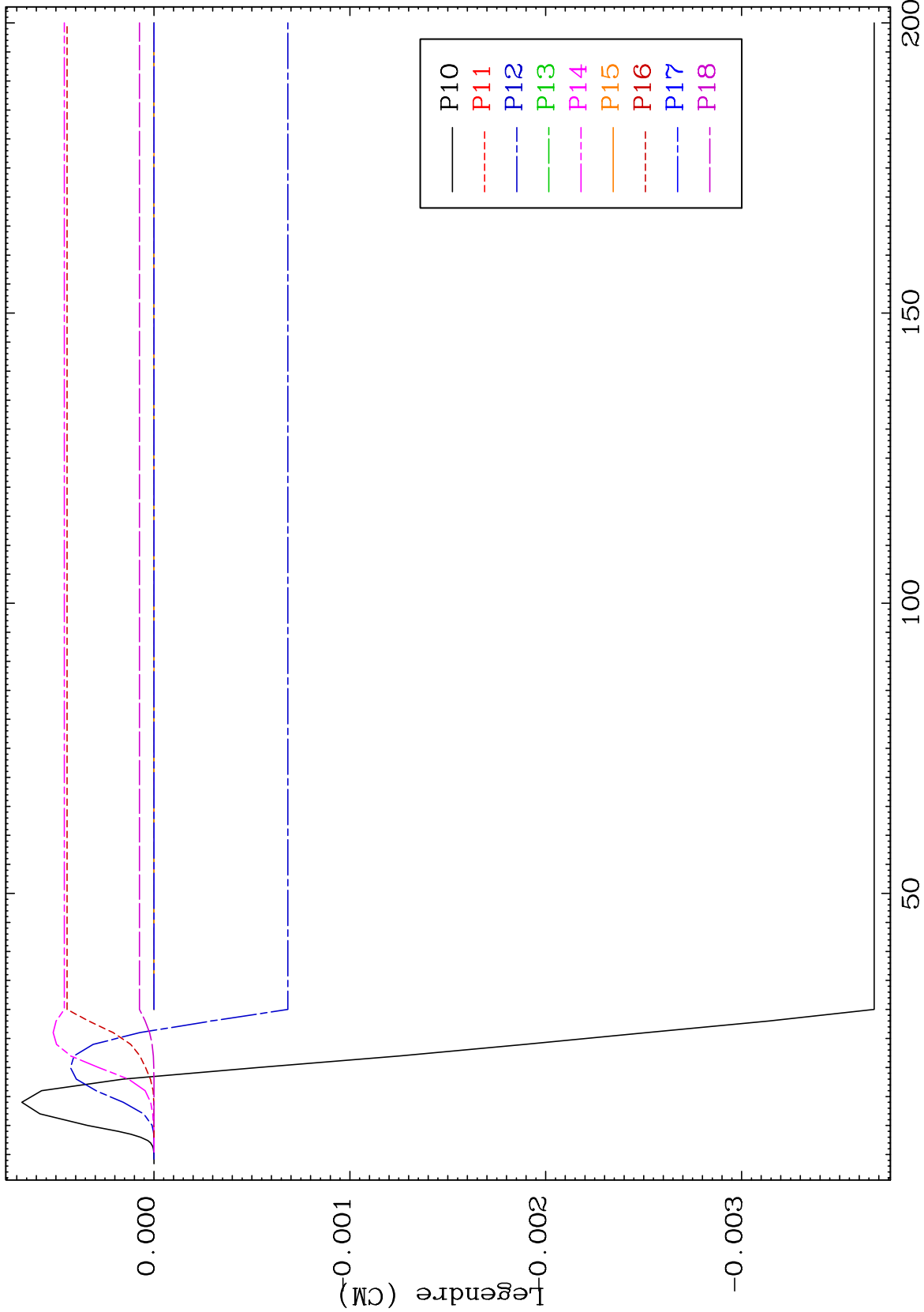
56-Ba-138



MAT 5649

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

56-Ba-138



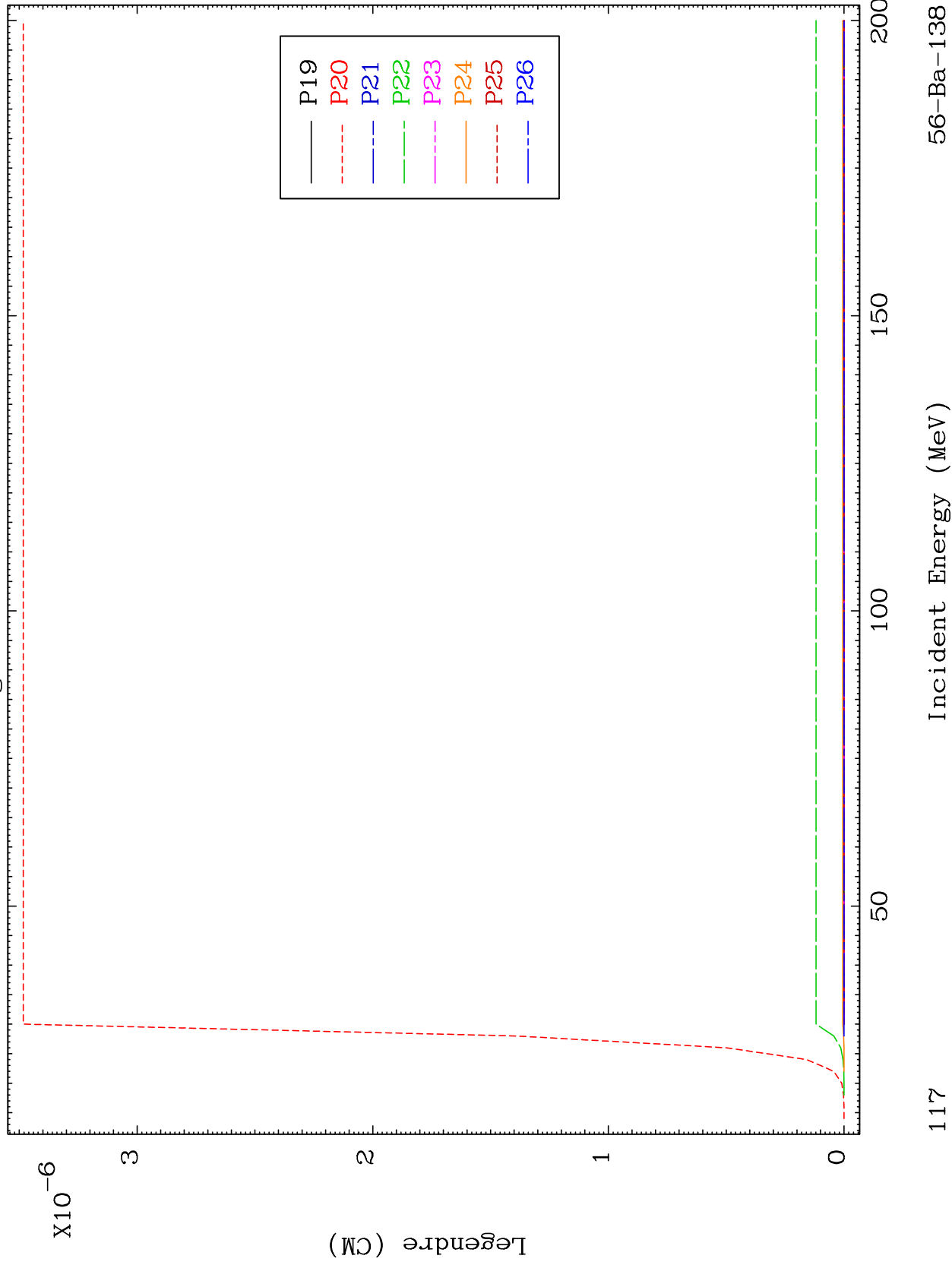
116

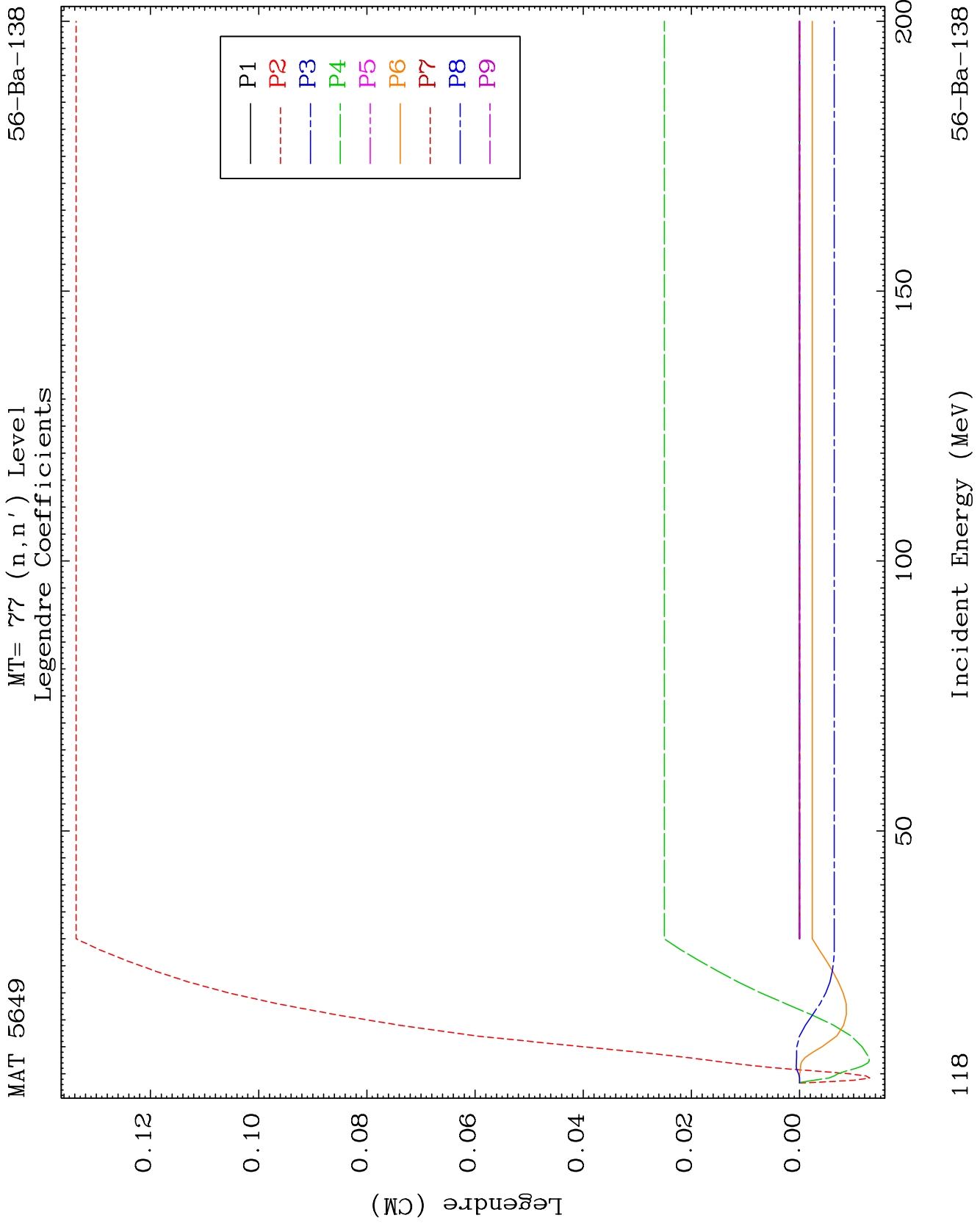
56-Ba-138

MAT 5649

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

56-Ba-138

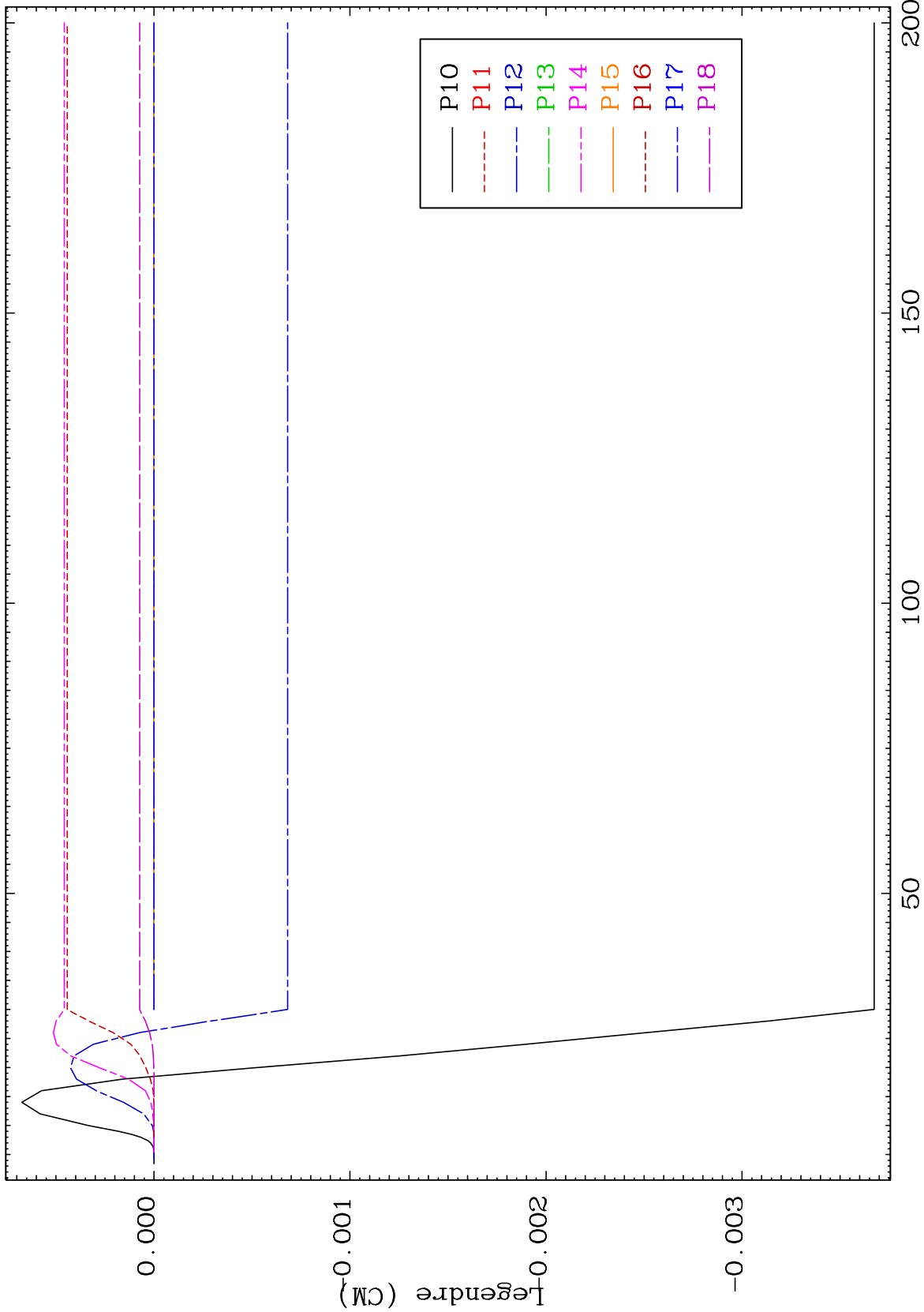




MAT 5649

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

56-Ba-138



119

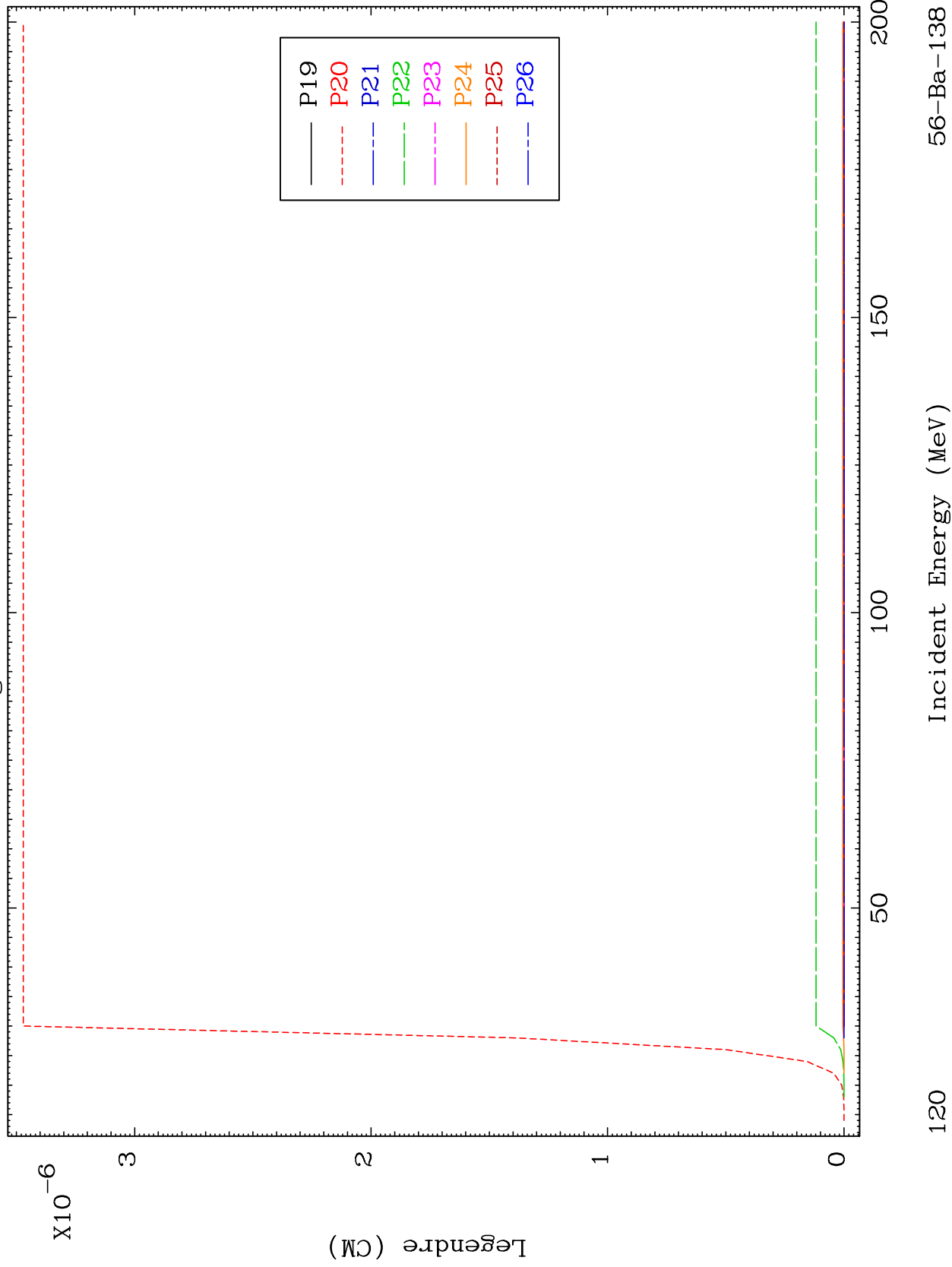
56-Ba-138



MAT 5649

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

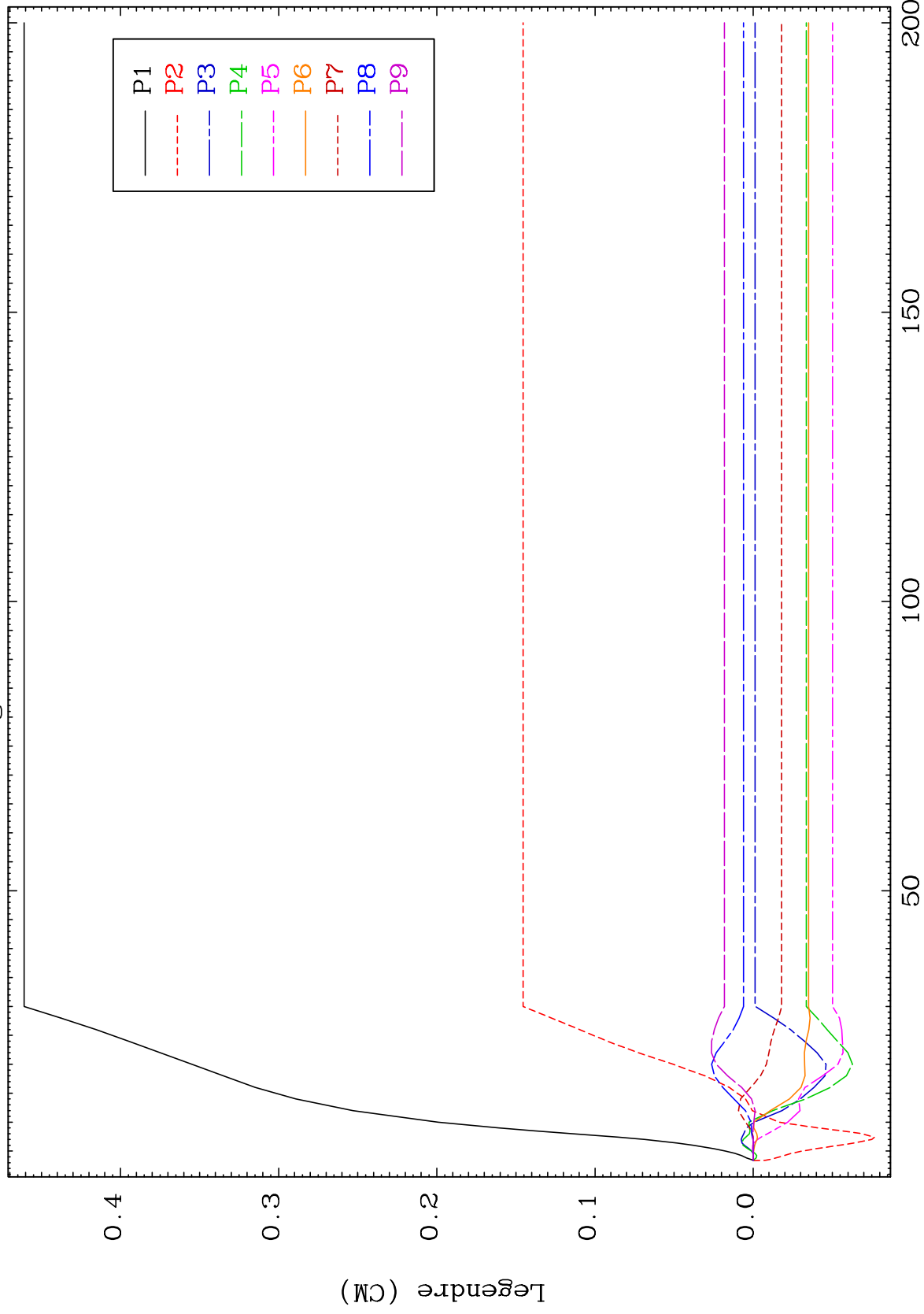
56-Ba-138



MAT 5649

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

56-Ba-138



121

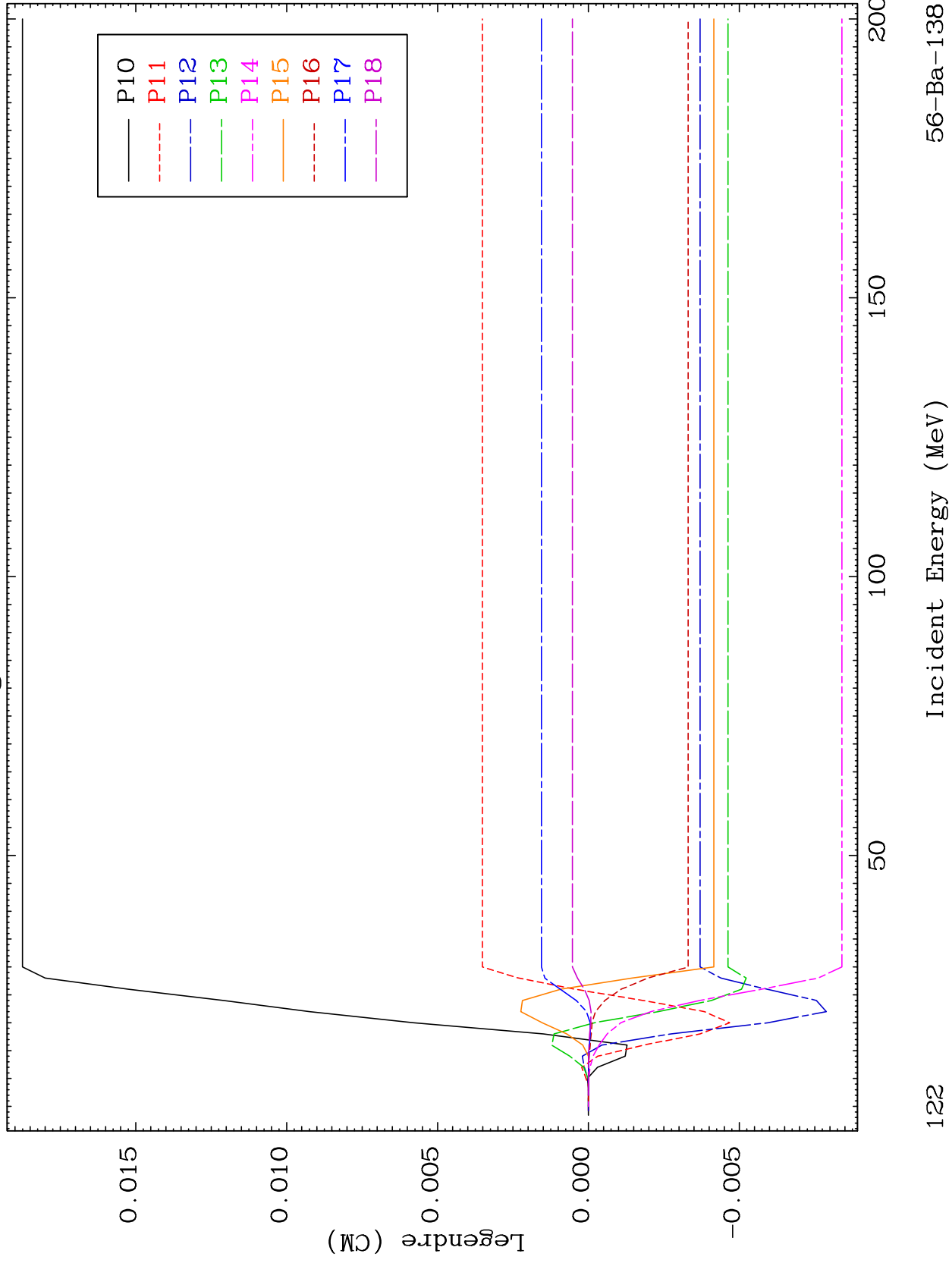
Incident Energy (MeV)

56-Ba-138

MAT 5649

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

56-Ba-138



122

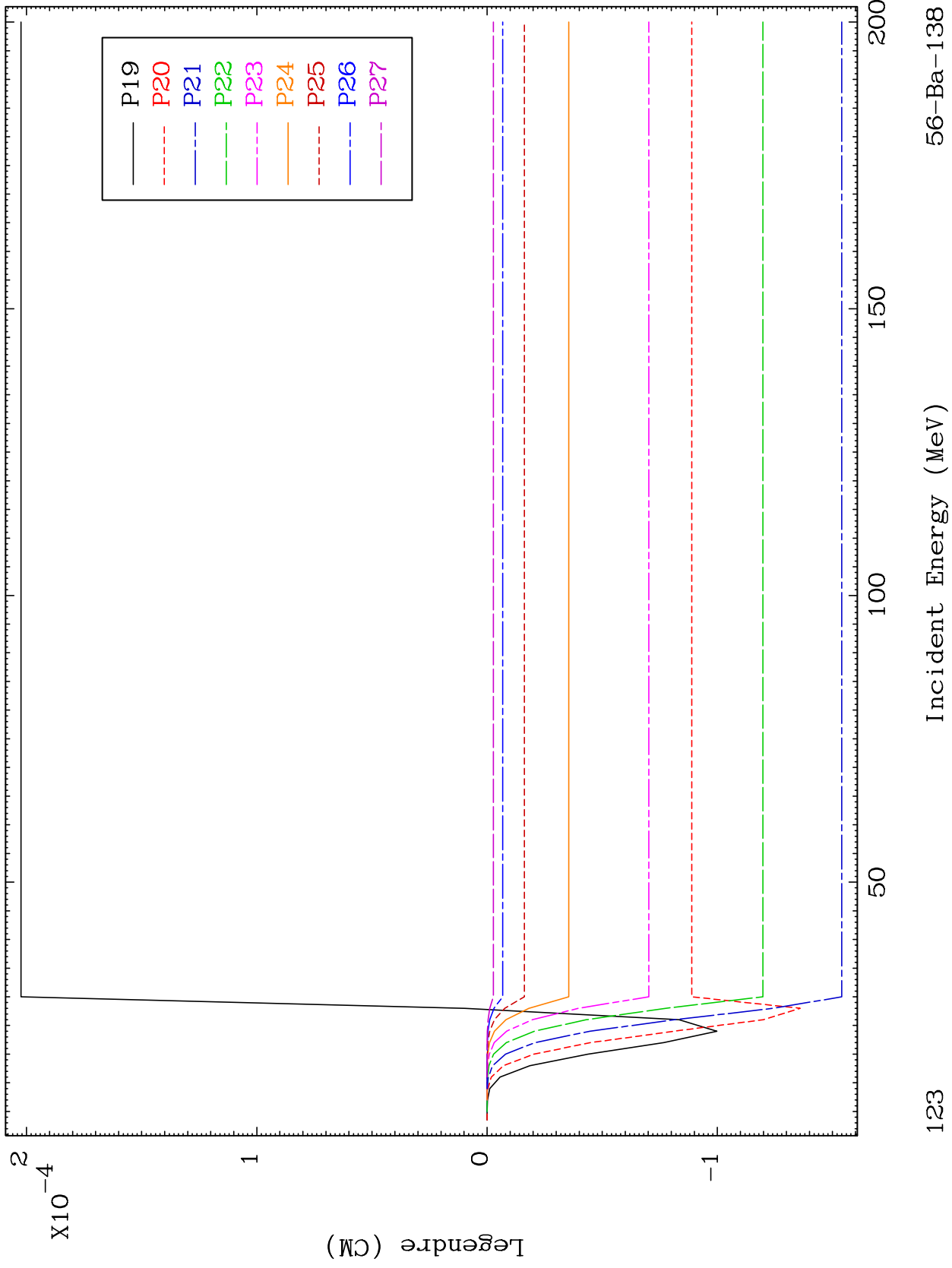
Incident Energy (MeV)

56-Ba-138

MAT 5649

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

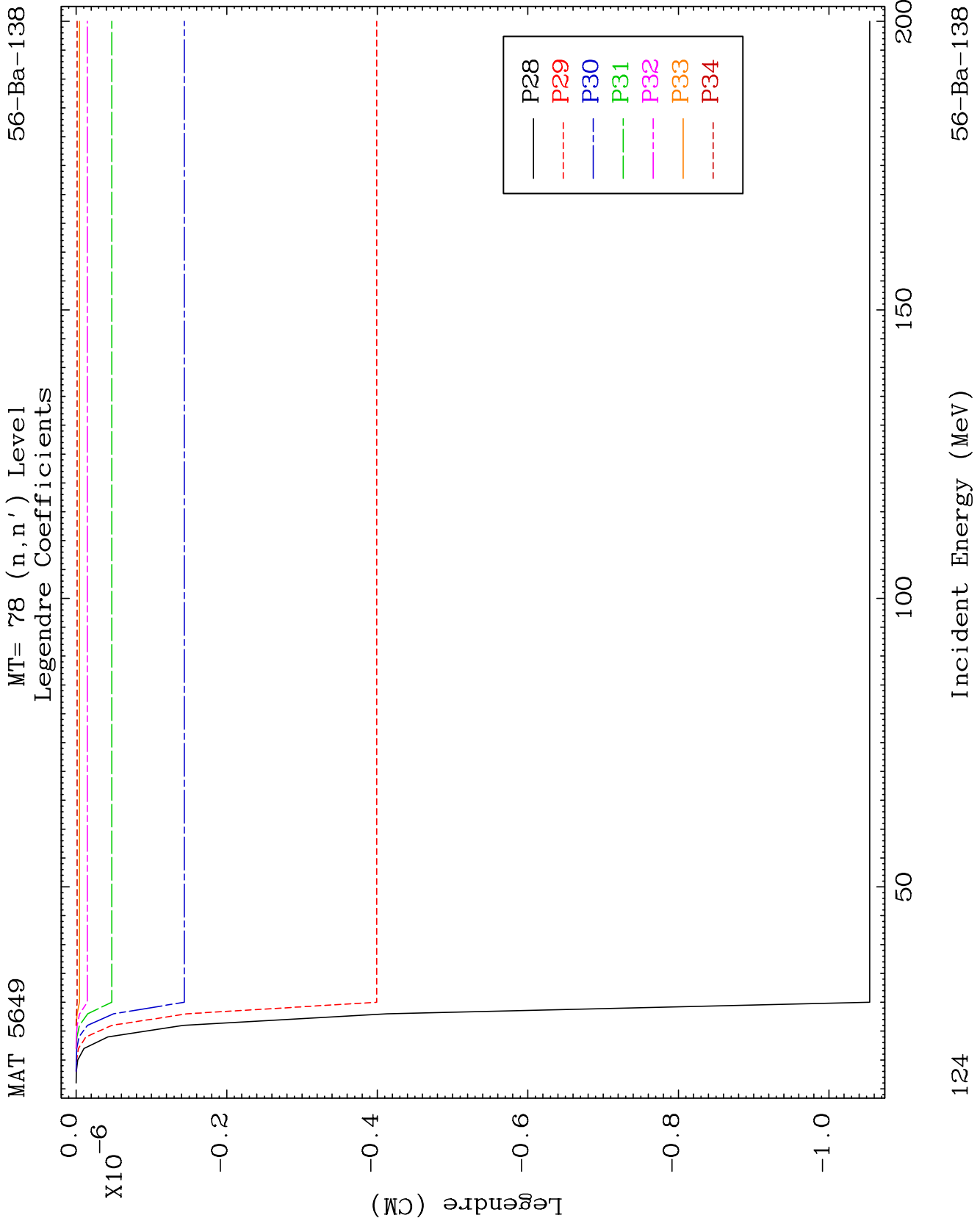
56-Ba-138



123

Incident Energy (MeV)

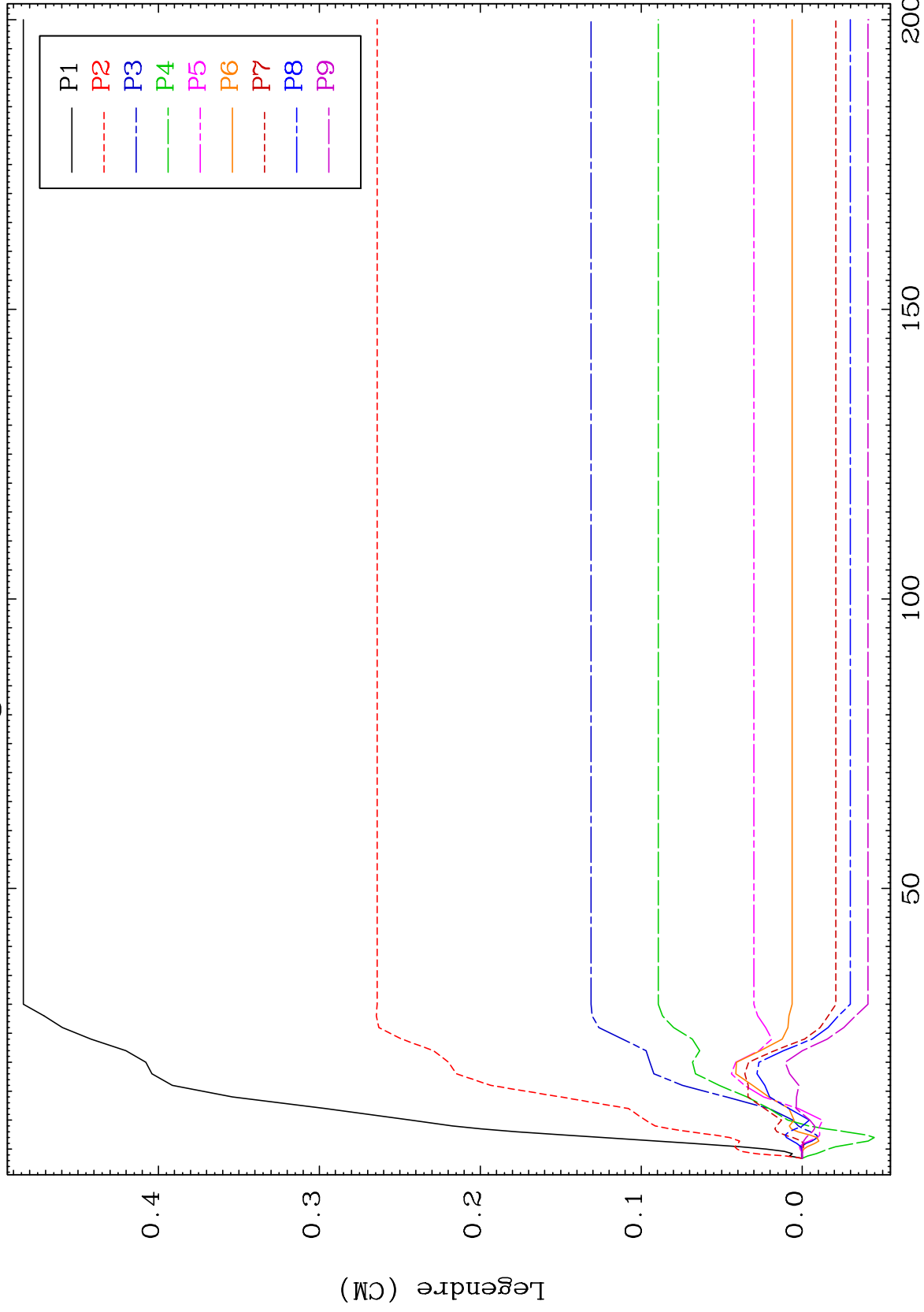
56-Ba-138



MAT 5649

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

56-Ba-138



125

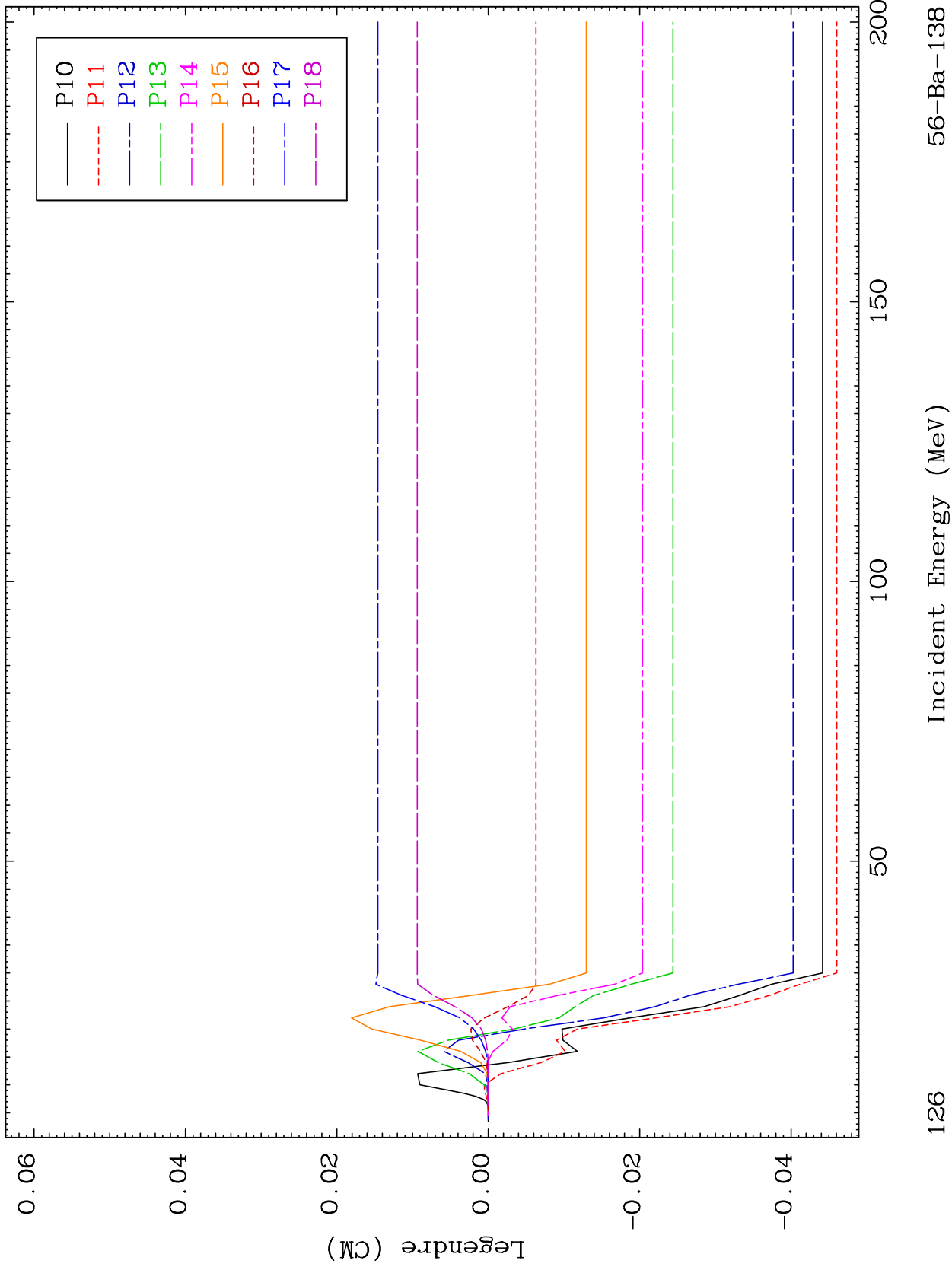
Incident Energy (MeV)

56-Ba-138

MAT 5649

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

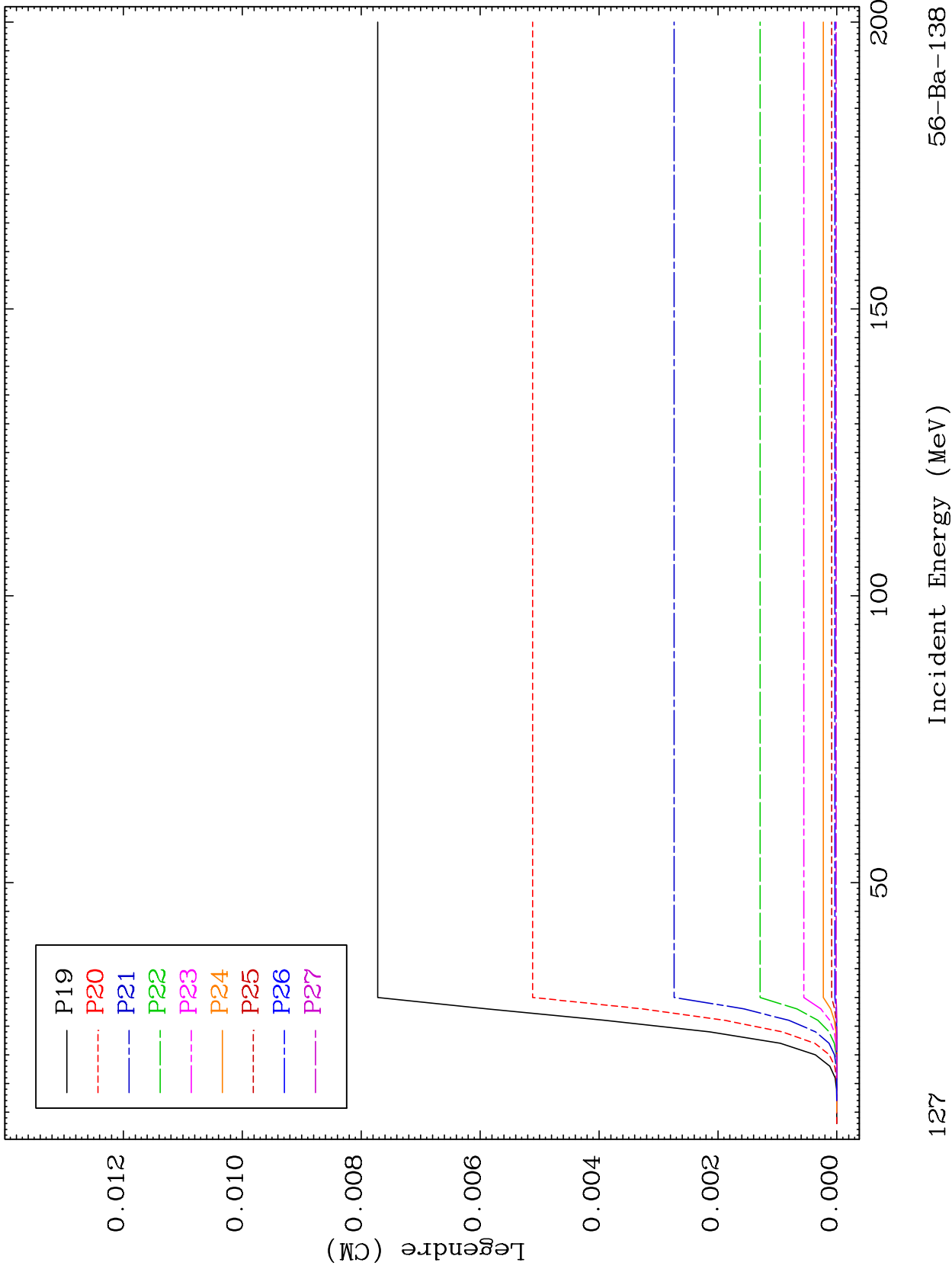
56-Ba-138



126

Incident Energy (MeV)

56-Ba-138

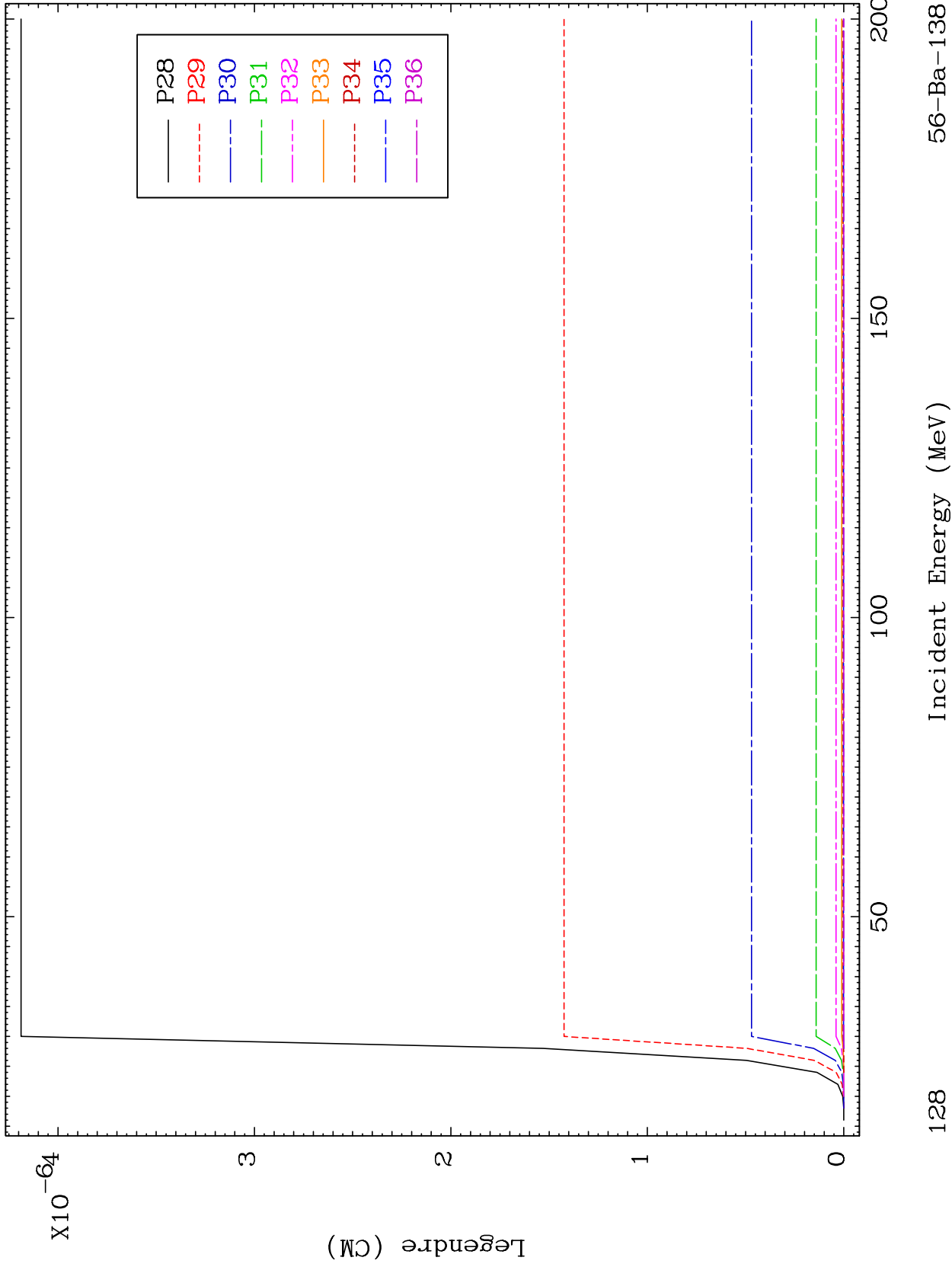




MAT 5649

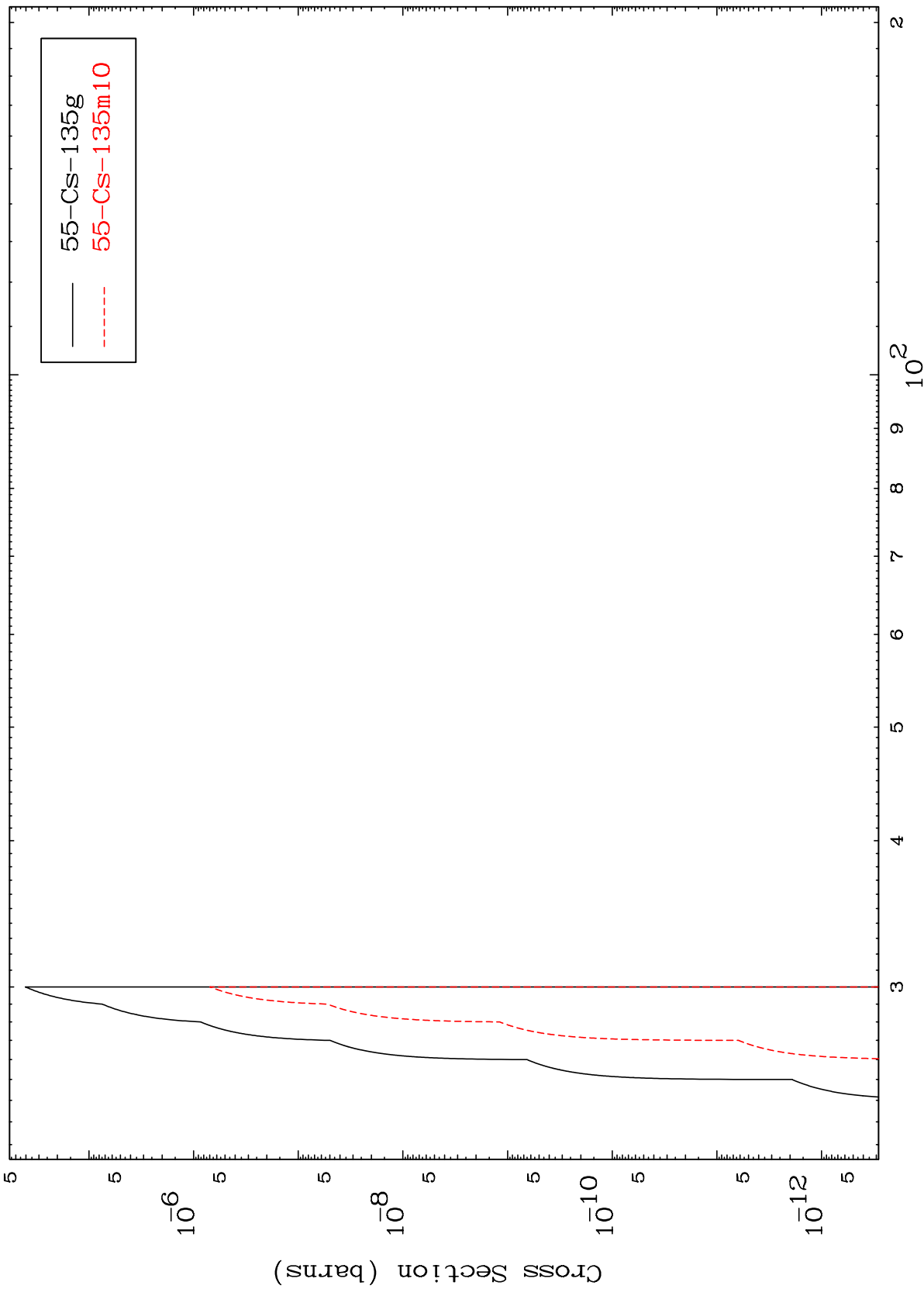
MT= 79 (n,n') Level  
Legendre Coefficients

56-Ba-138



128

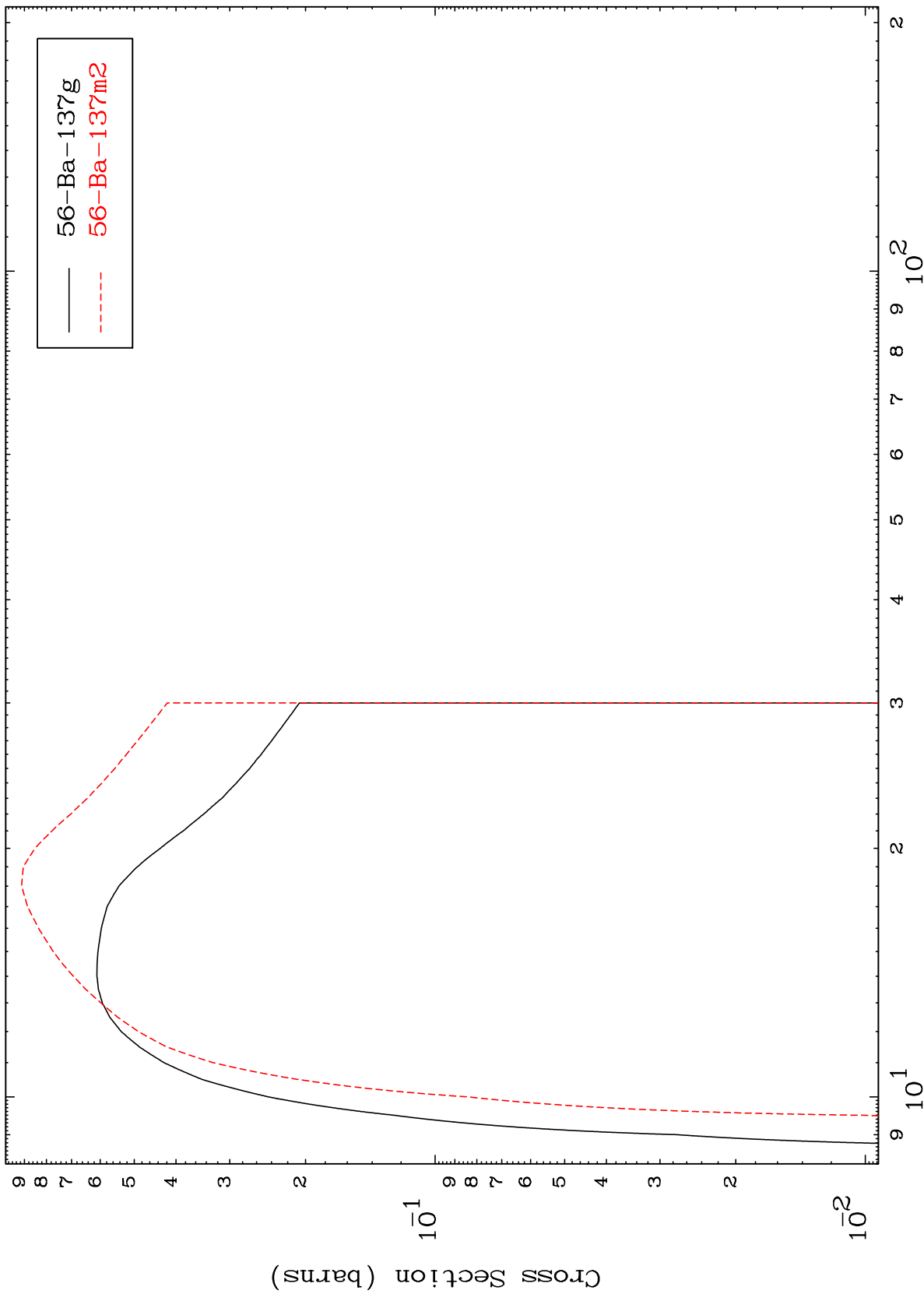
Radionuclide Production Cross Section



MAT 5649

56-Ba-138

(n,2n)  
Radionuclide Production Cross Section



56-Ba-138

Incident Energy (MeV)

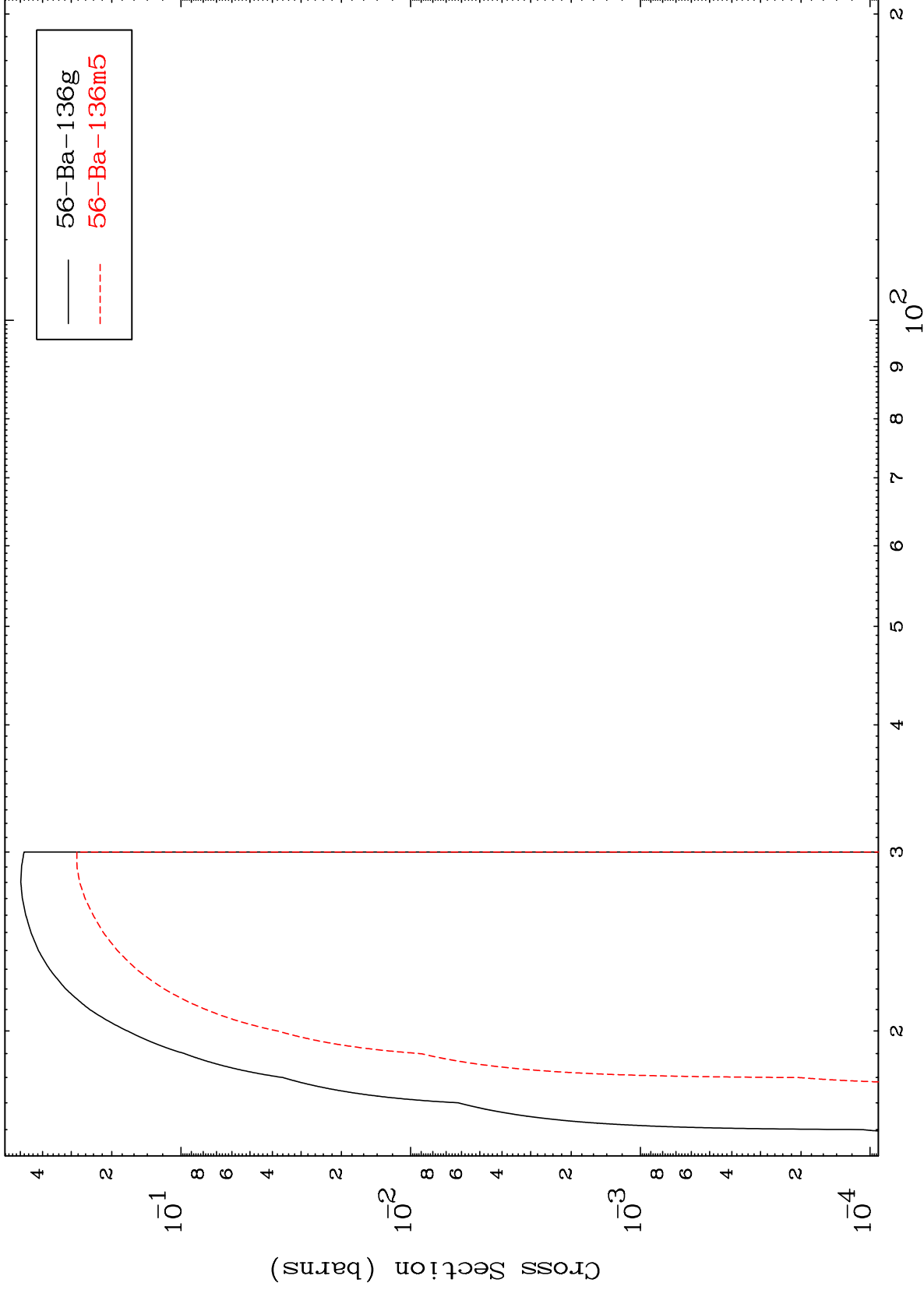
130

MAT 5649

(n,3n)

56-Ba-138

Radionuclide Production Cross Section



131

Incident Energy (MeV)

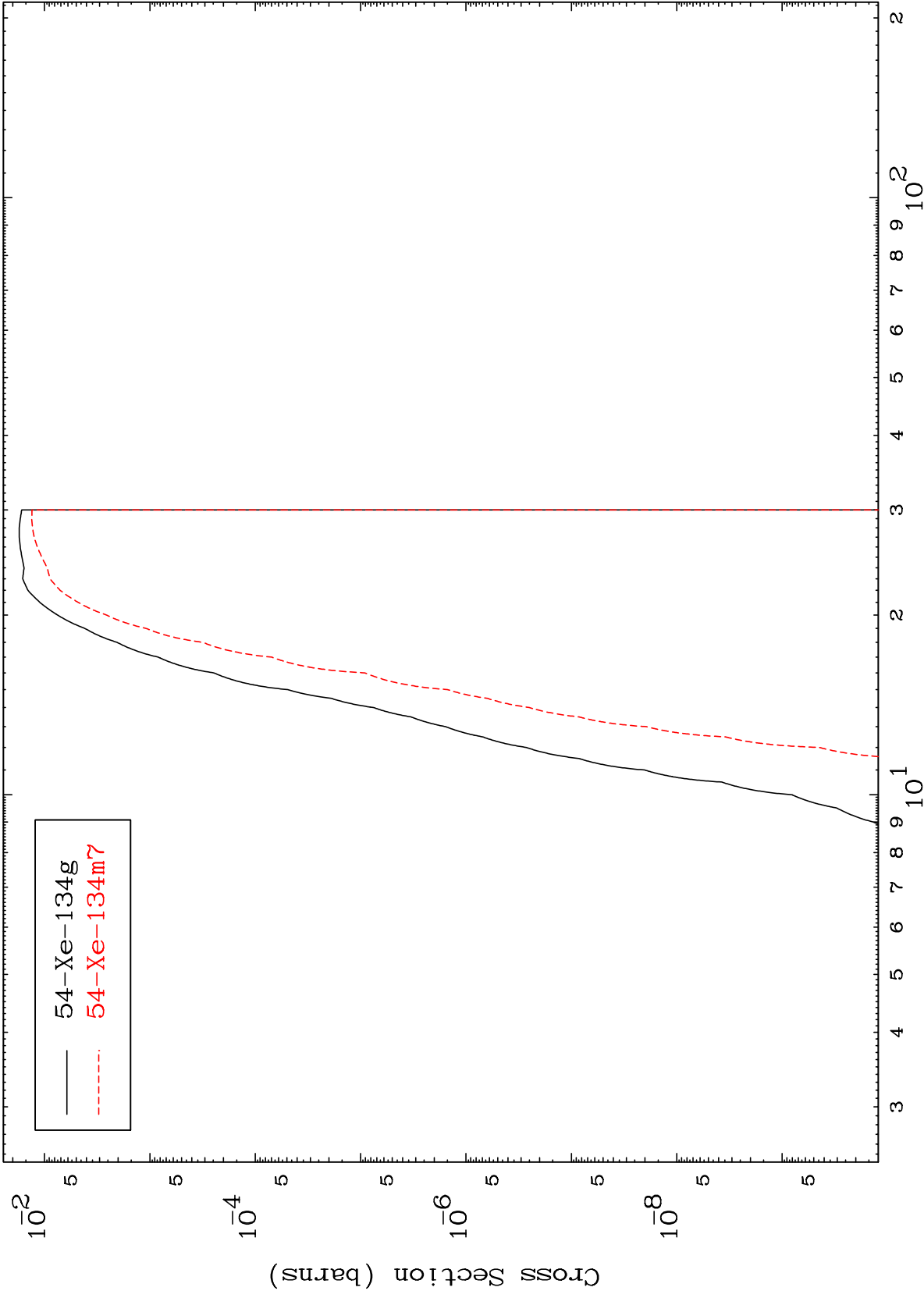
56-Ba-138

MAT 5649

56-Ba-138

(n,n')  $\alpha$

Radionuclide Production Cross Section



132

Incident Energy (MeV)

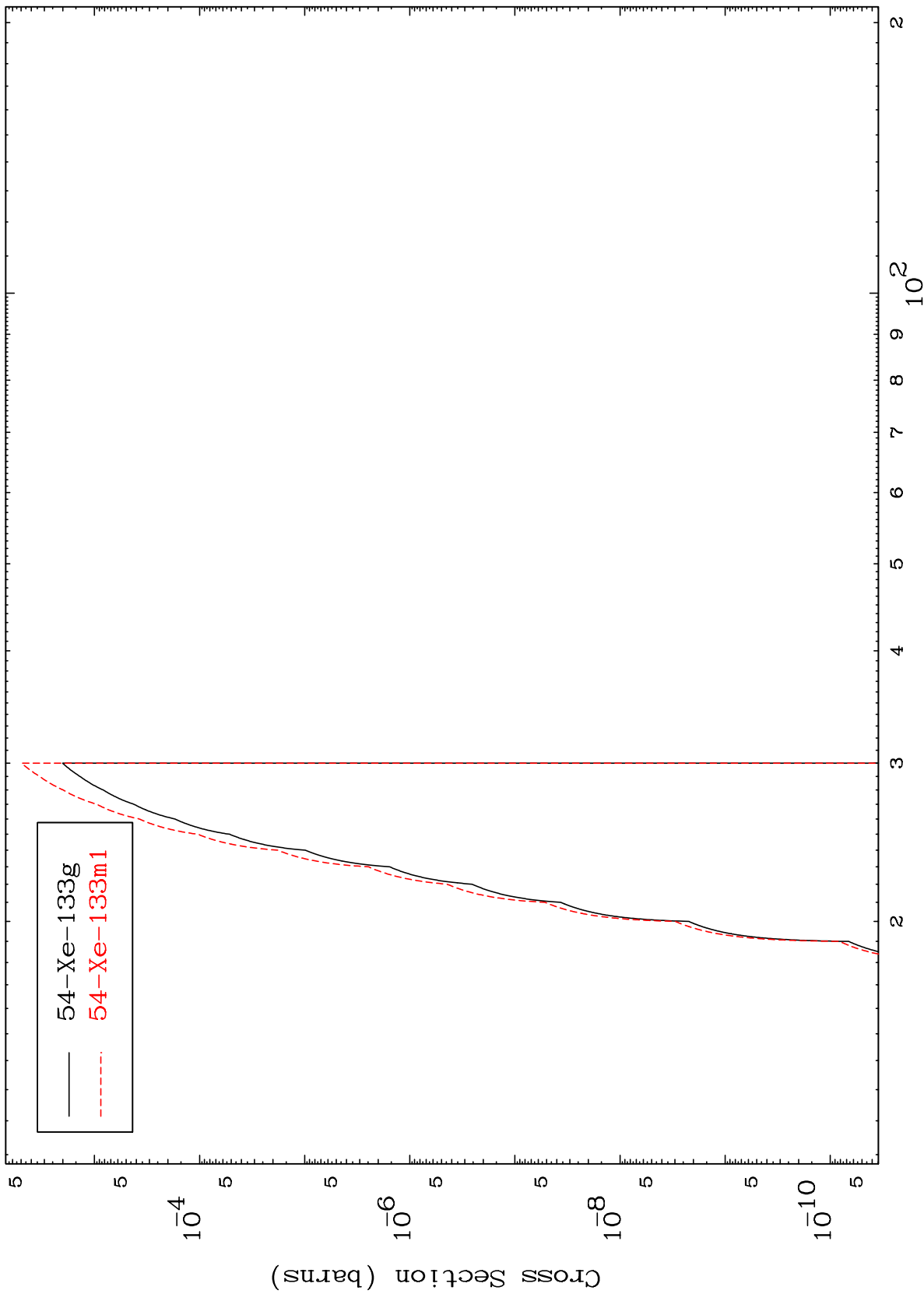
56-Ba-138

MAT 5649

(n,2n)  $\alpha$

56-Ba-138

Radionuclide Production Cross Section



133

Incident Energy (MeV)

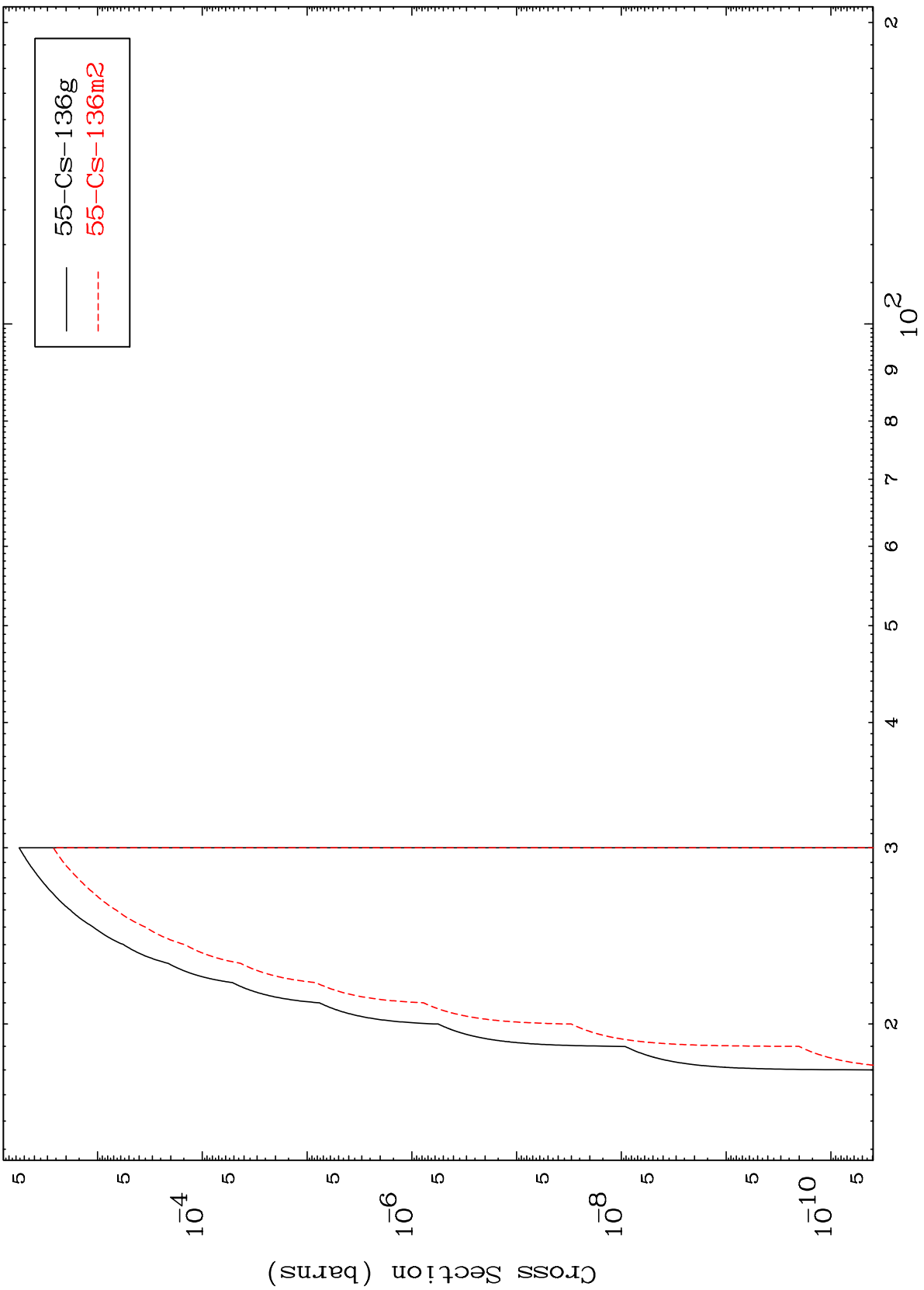
56-Ba-138

MAT 5649

(n,n') d

56-Ba-138

Radionuclide Production Cross Section



134

Incident Energy (MeV)

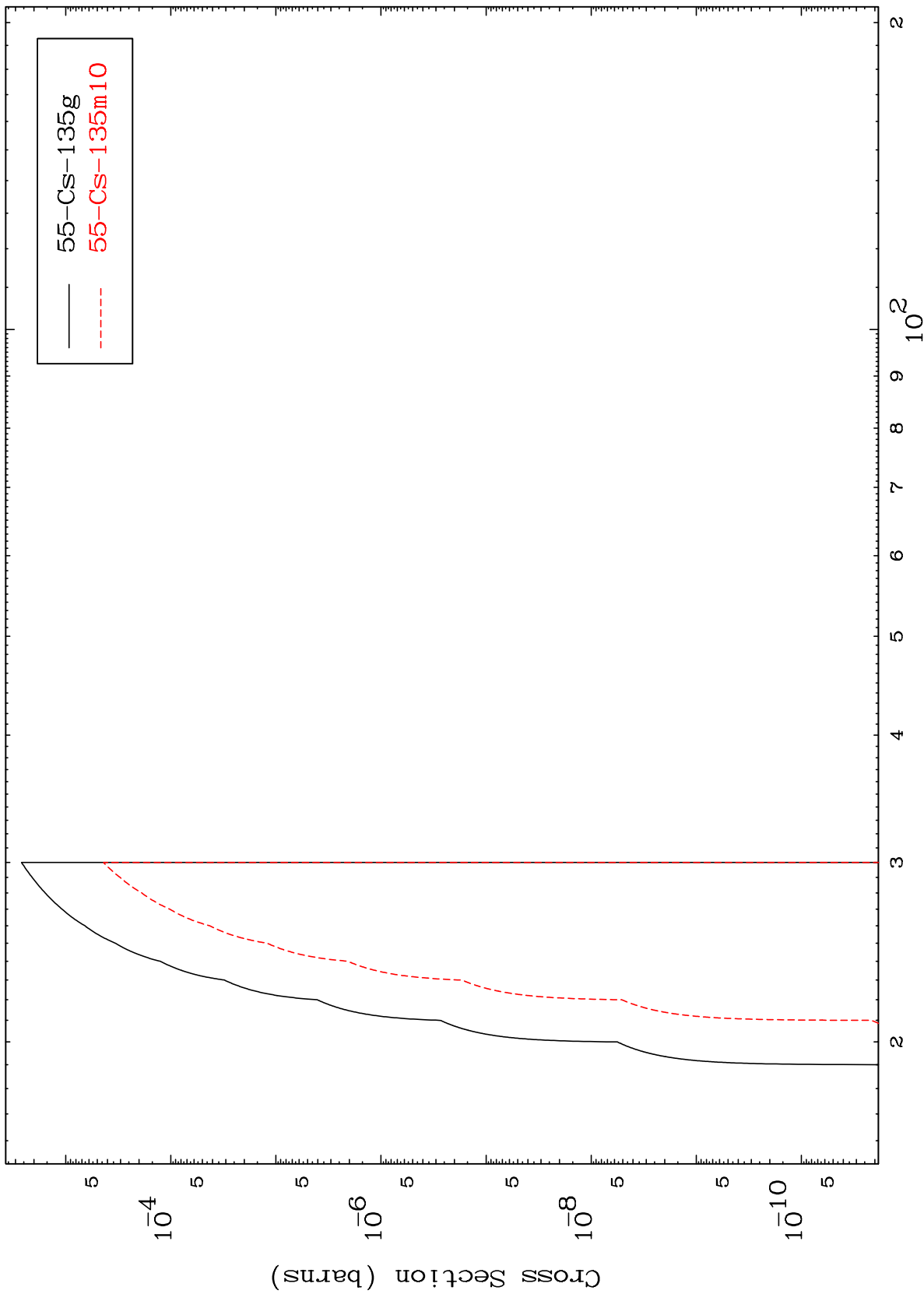
56-Ba-138

MAT 5649

(n,n') t

56-Ba-138

Radionuclide Production Cross Section



135

Incident Energy (MeV)

56-Ba-138

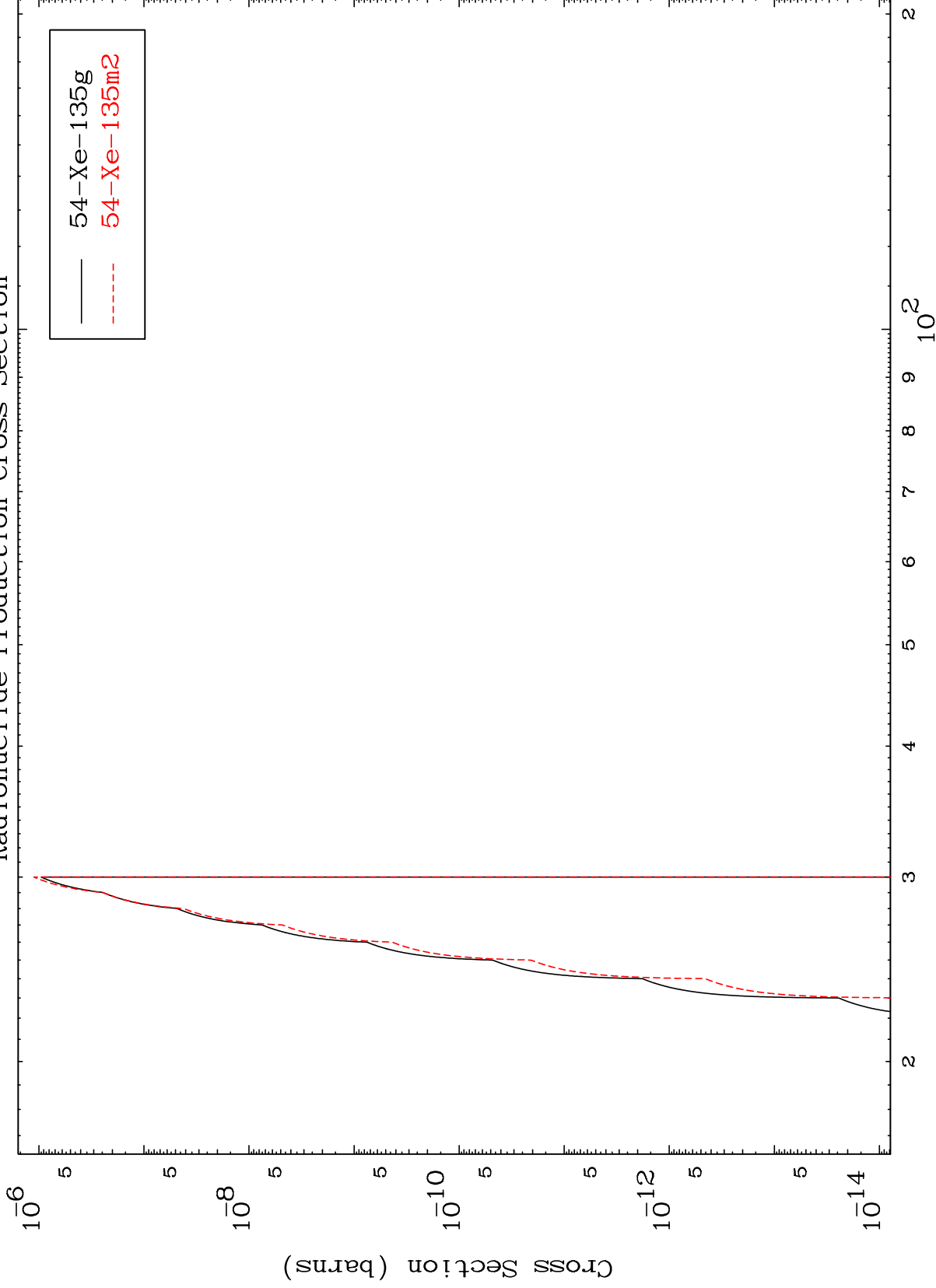


MAT 5649

(n,n') He-3

56-Ba-138

Radionuclide Production Cross Section



136

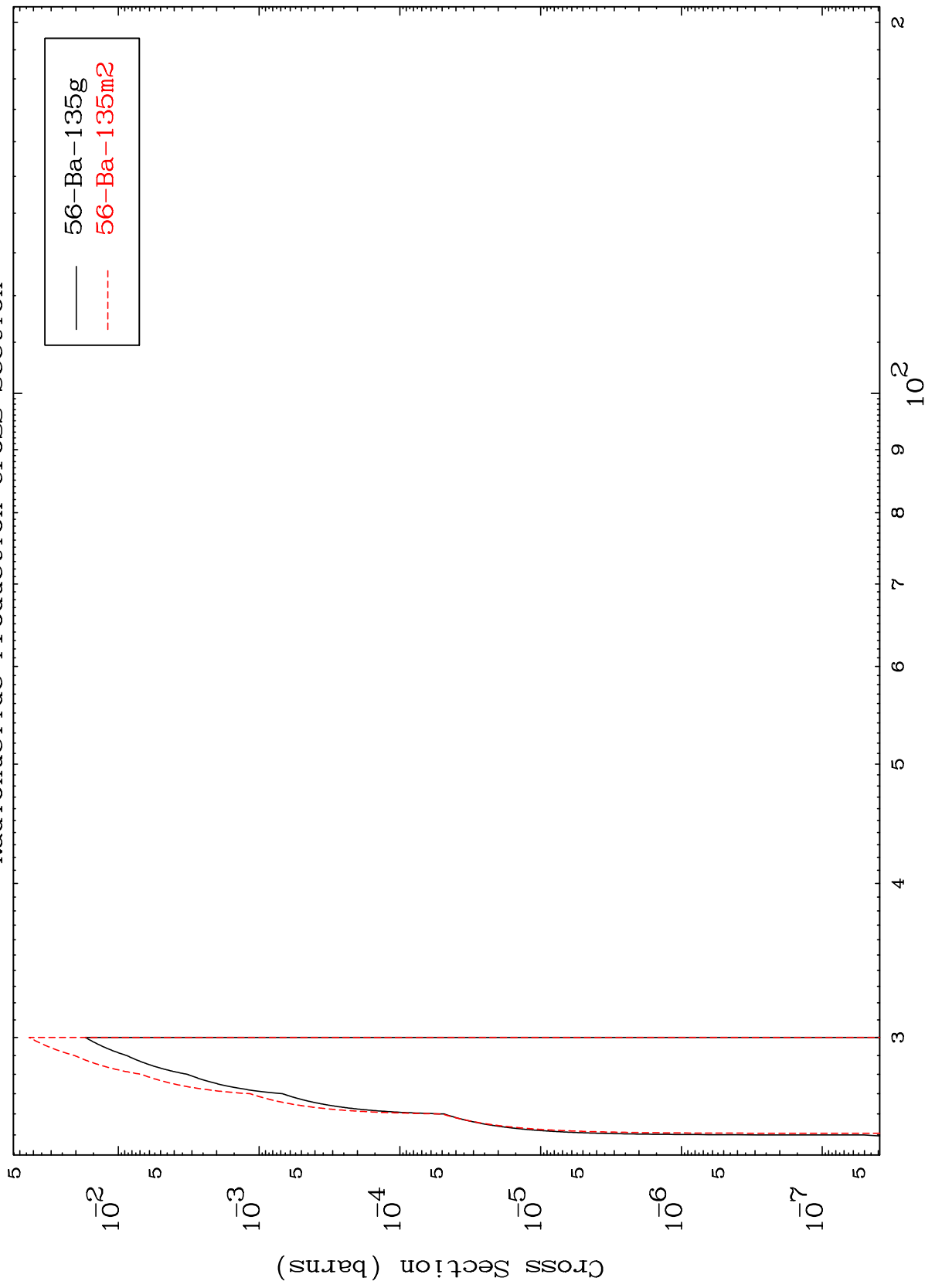
Incident Energy (MeV)

56-Ba-138

MAT 5649

56-Ba-138

(n,4n)  
Radionuclide Production Cross Section



137

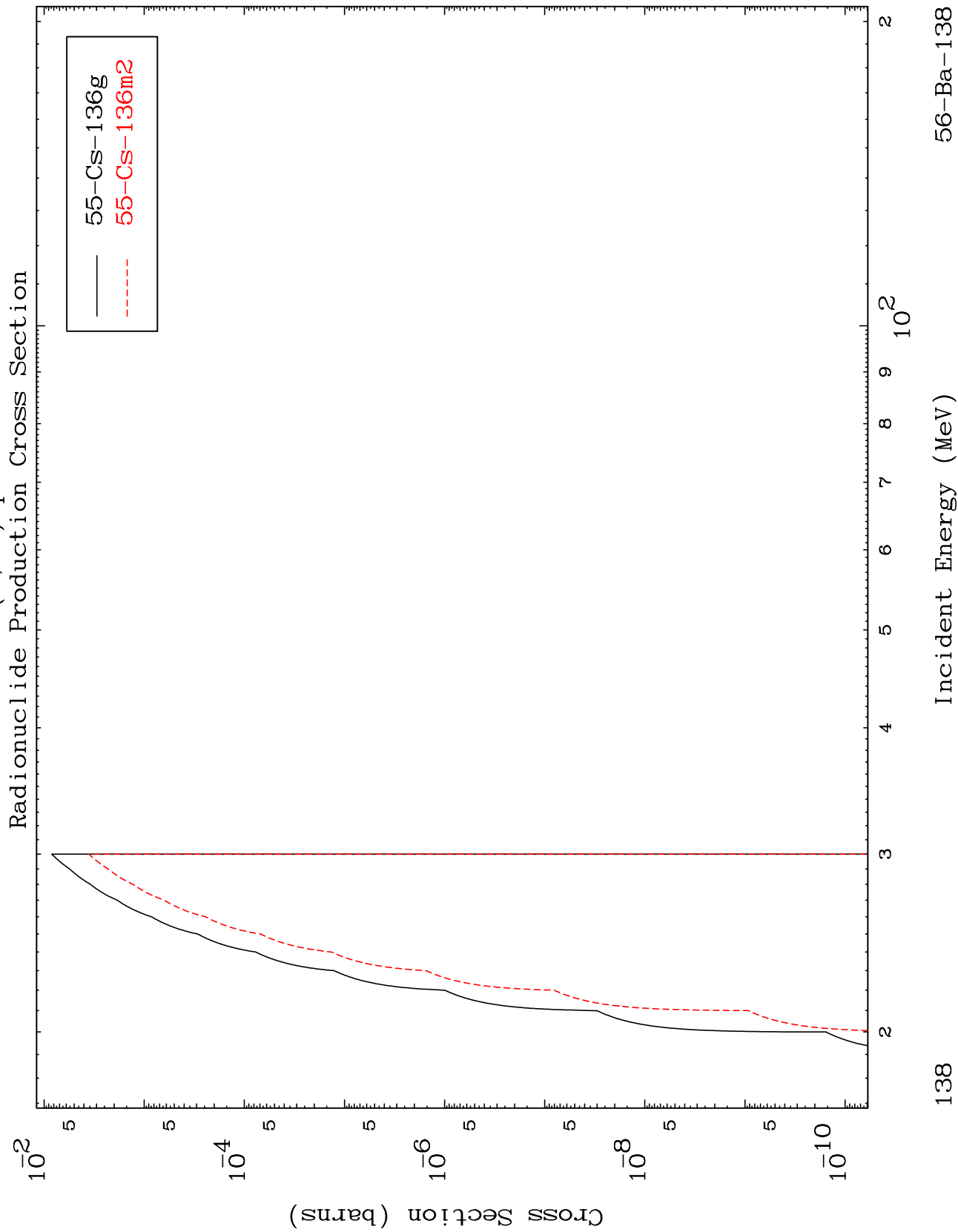
Incident Energy (MeV)

56-Ba-138

MAT 5649

(n,2n) p

56-Ba-138



56-Ba-138

Incident Energy (MeV)

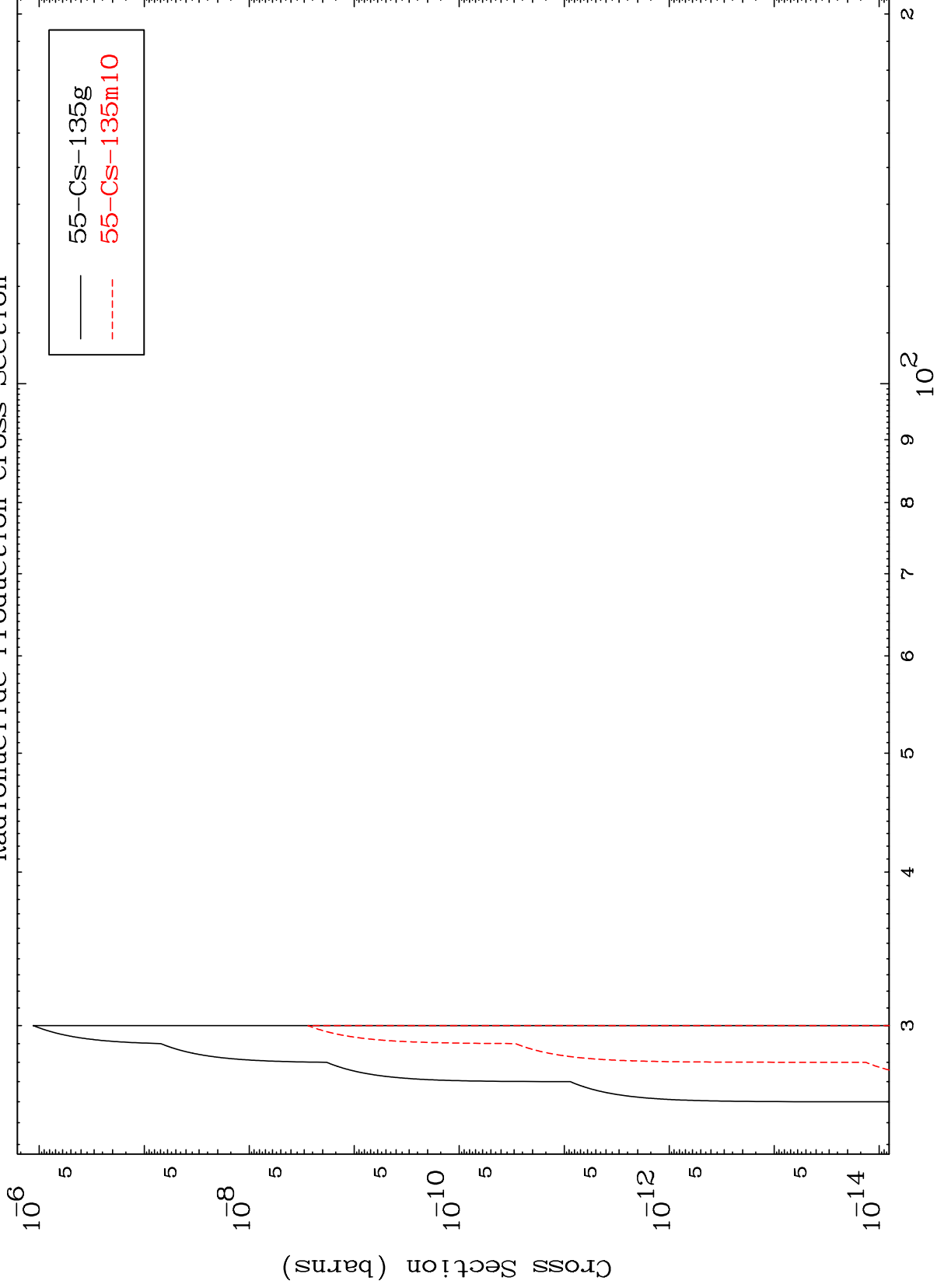
138

MAT 5649

(n,3n) p

56-Ba-138

Radionuclide Production Cross Section



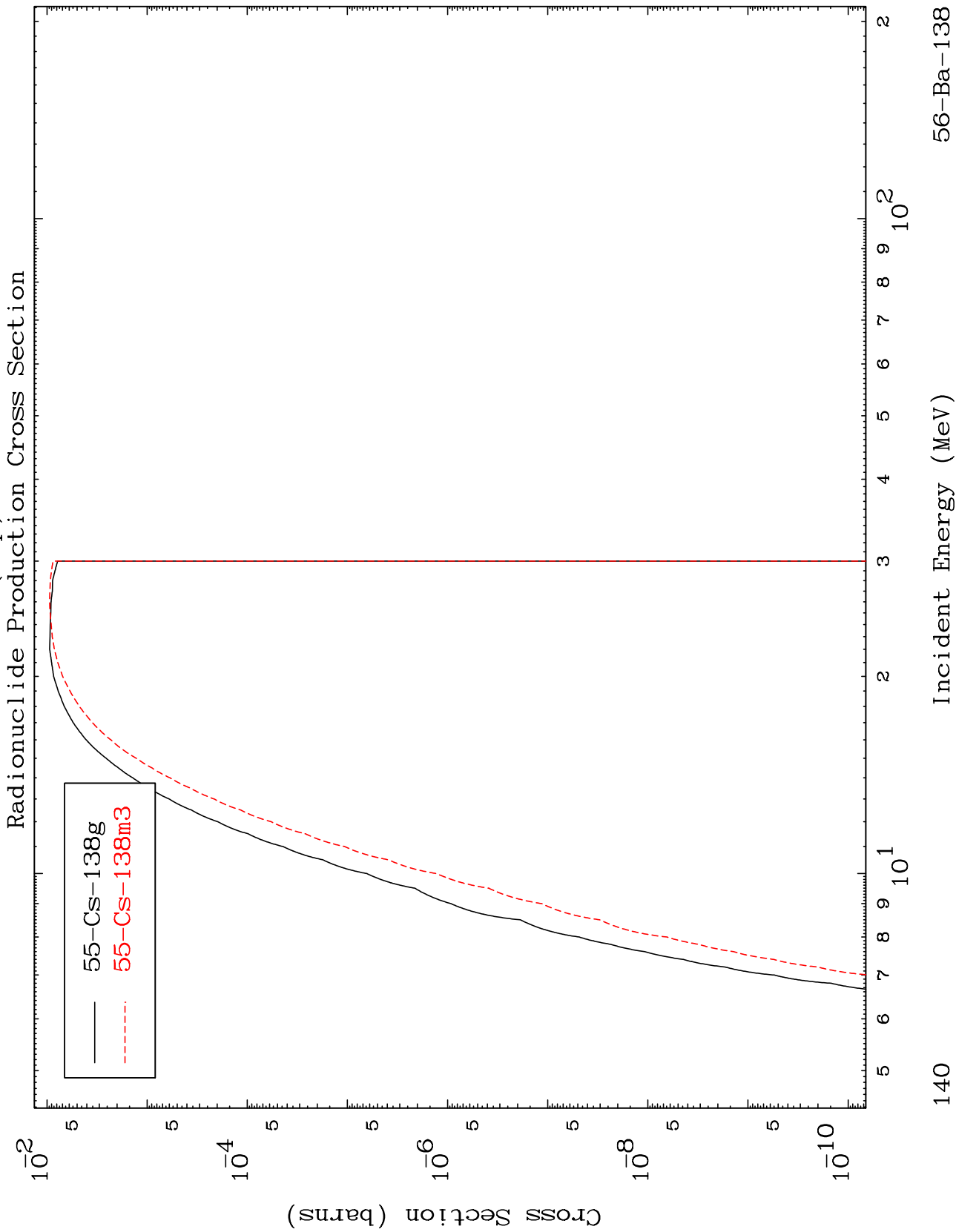
139

Incident Energy (MeV)

56-Ba-138

MAT 5649

56-Ba-138



56-Ba-138

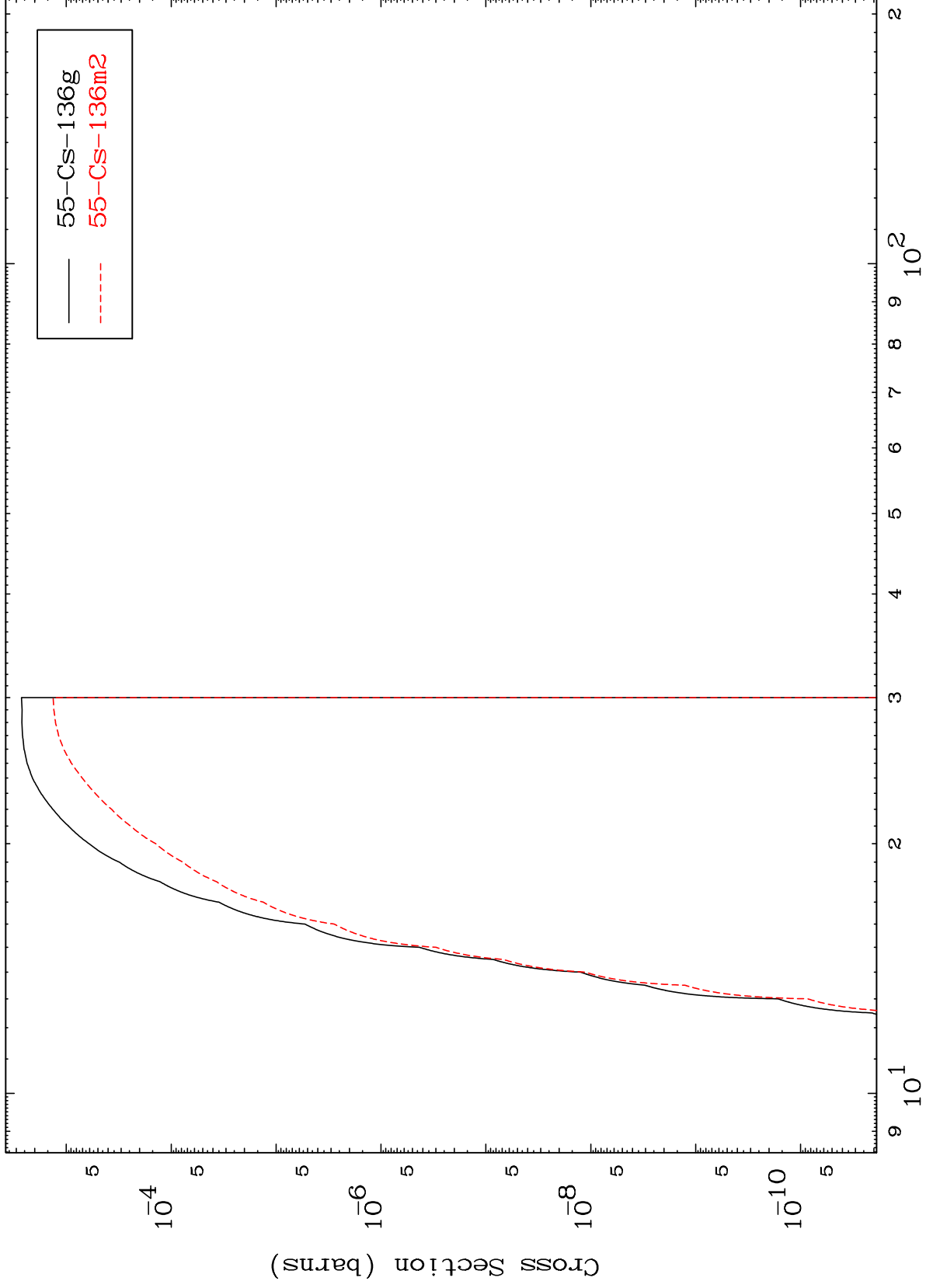
Incident Energy (MeV)

140

MAT 5649

56-Ba-138

(n,t)  
Radionuclide Production Cross Section



56-Ba-138

Incident Energy (MeV)

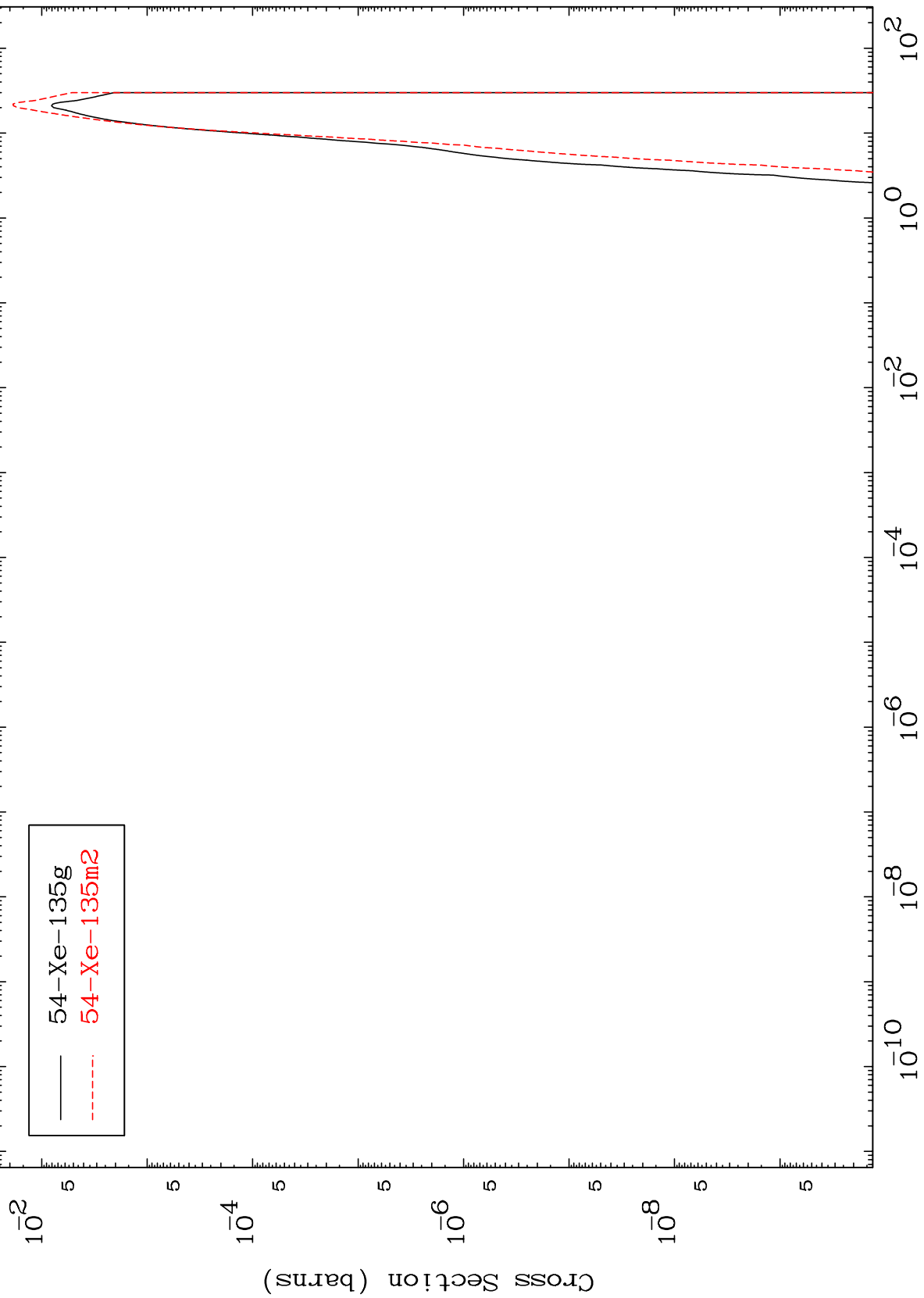
141

MAT 5649

(n,  $\alpha$ )

56-Ba-138

Radionuclide Production Cross Section



142

Incident Energy (MeV)

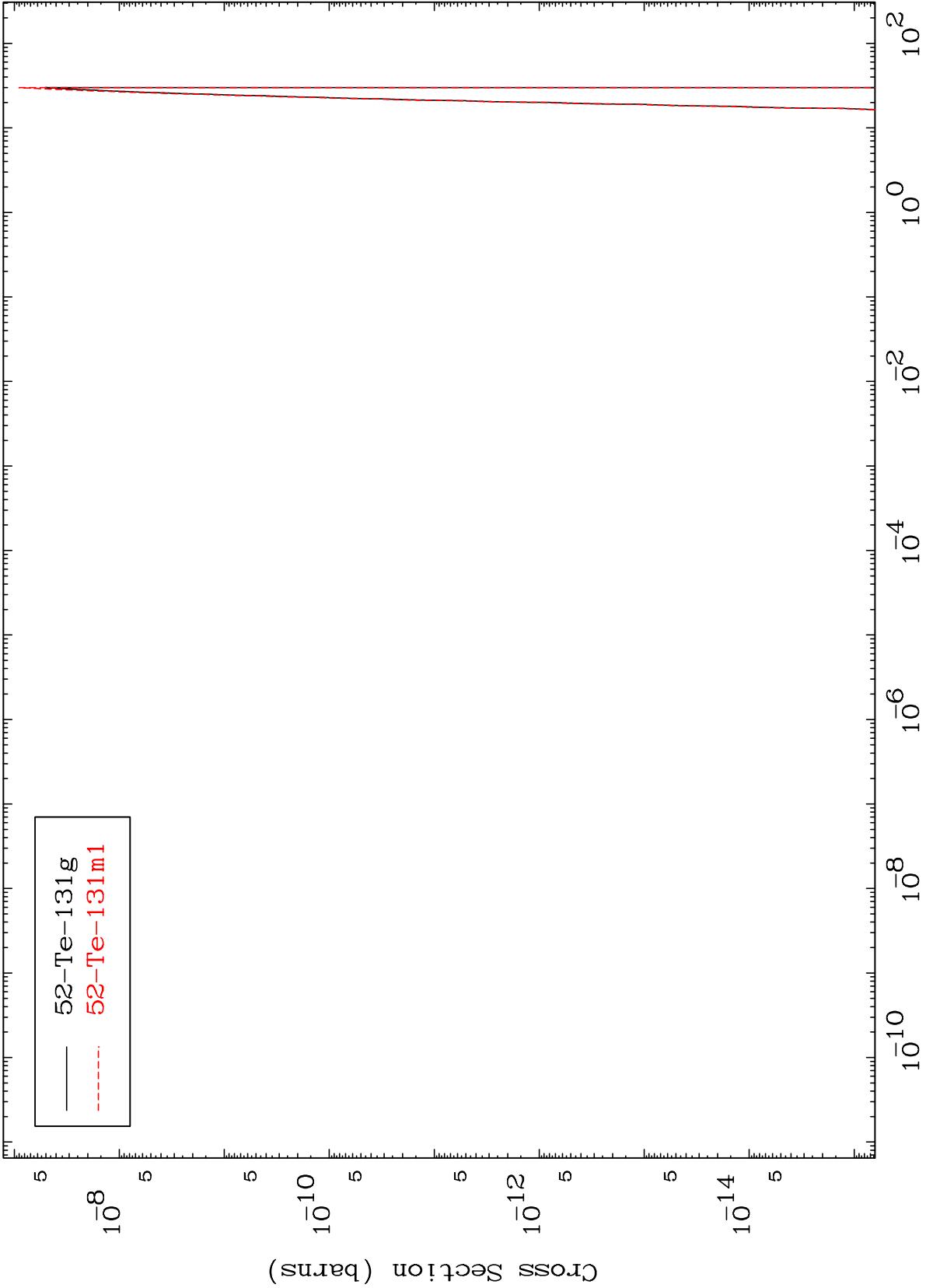
56-Ba-138

MAT 5649

(n,2α)

56-Ba-138

Radionuclide Production Cross Section



143

Incident Energy (MeV)

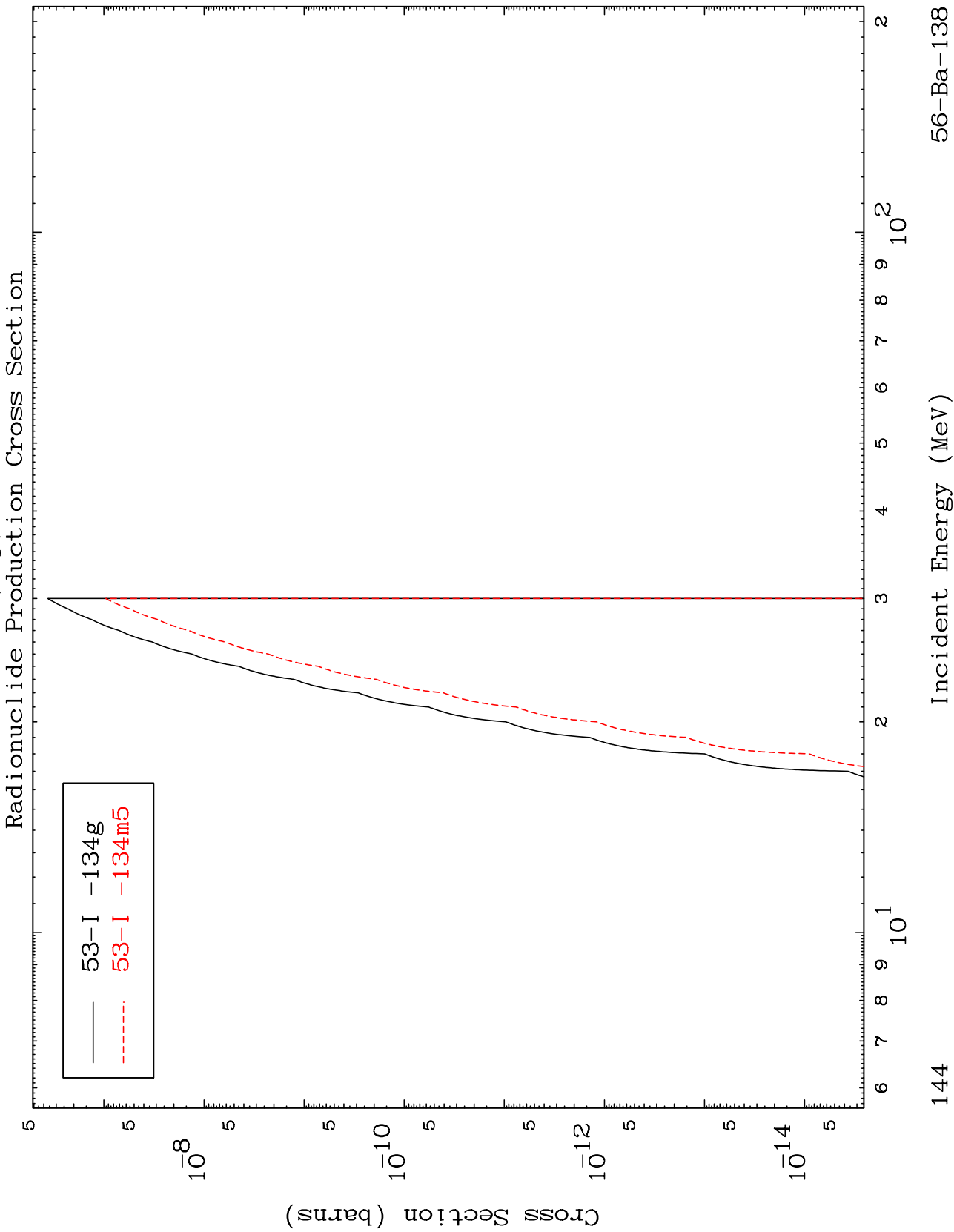
56-Ba-138



MAT 5649

(n,p)  $\alpha$

56-Ba-138

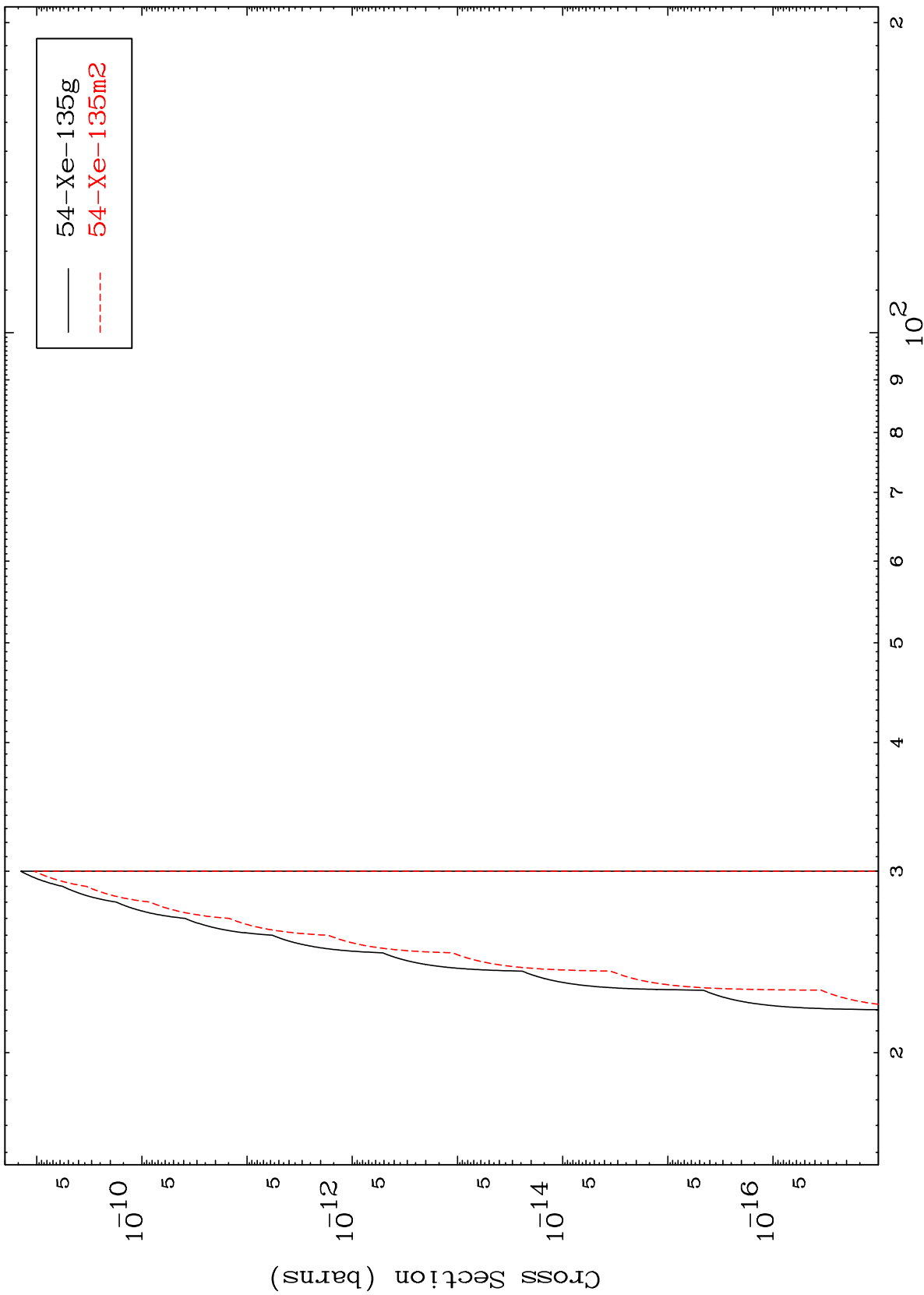


MAT 5649

(n,p) t

56-Ba-138

Radionuclide Production Cross Section



145

Incident Energy (MeV)

56-Ba-138