

Program EVALPLOT
(Version 2015-2)

by

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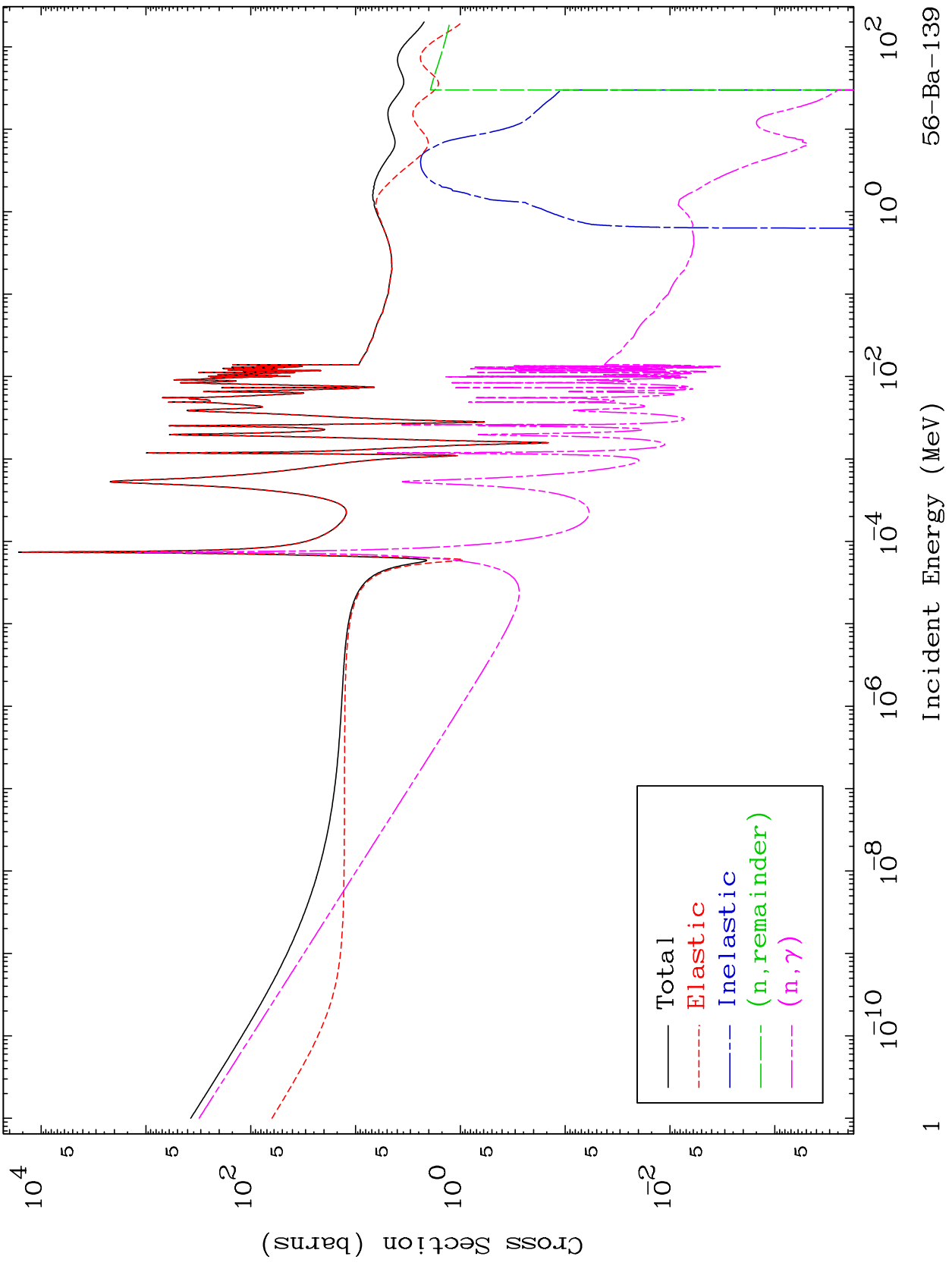
Press Mouse Button to Start

MAT 5652

Major

293 Kelvin Cross Sections

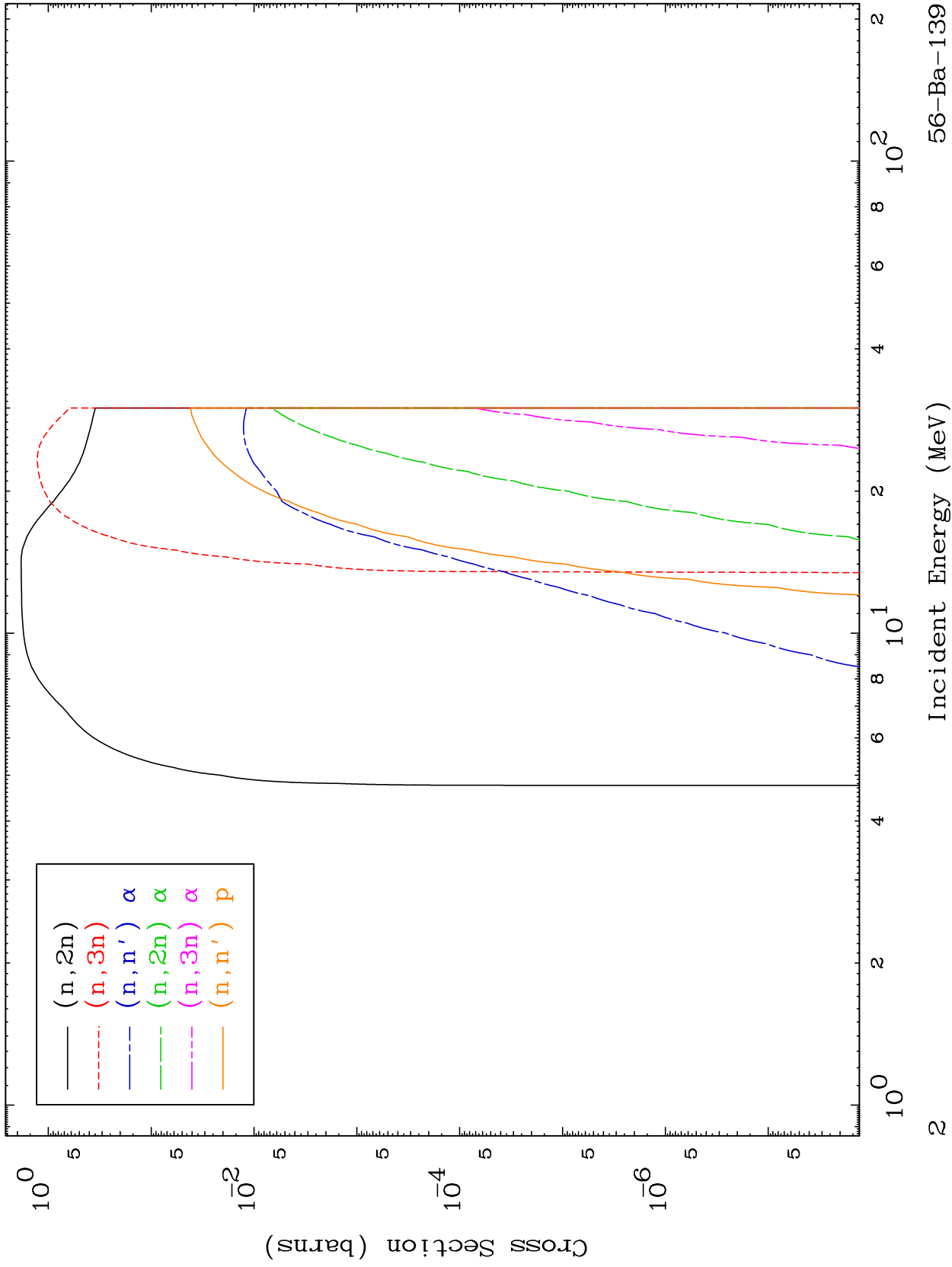
56-Ba-139



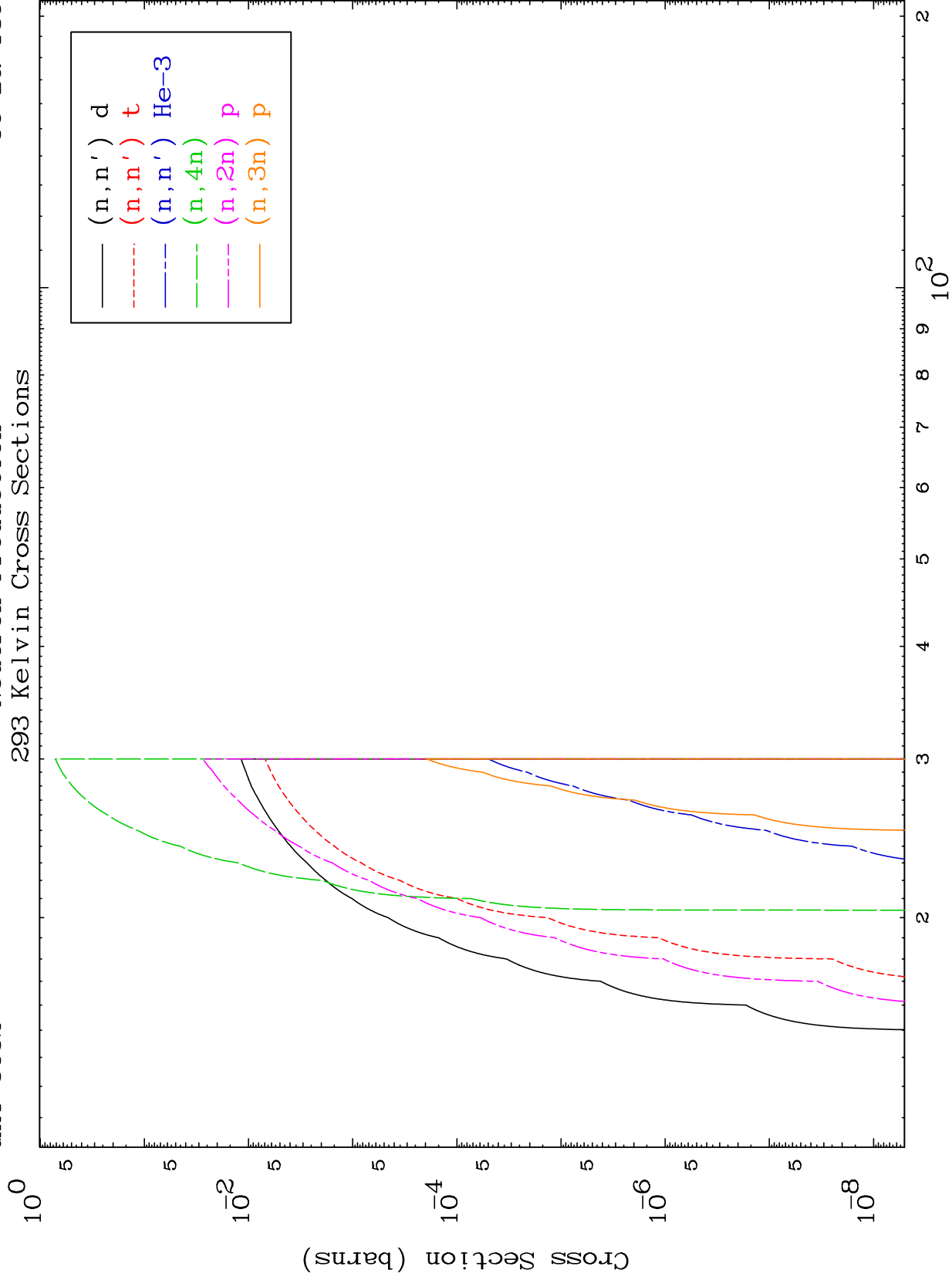
MAT 5652

Neutron Production
293 Kelvin Cross Sections

56-Ba-139



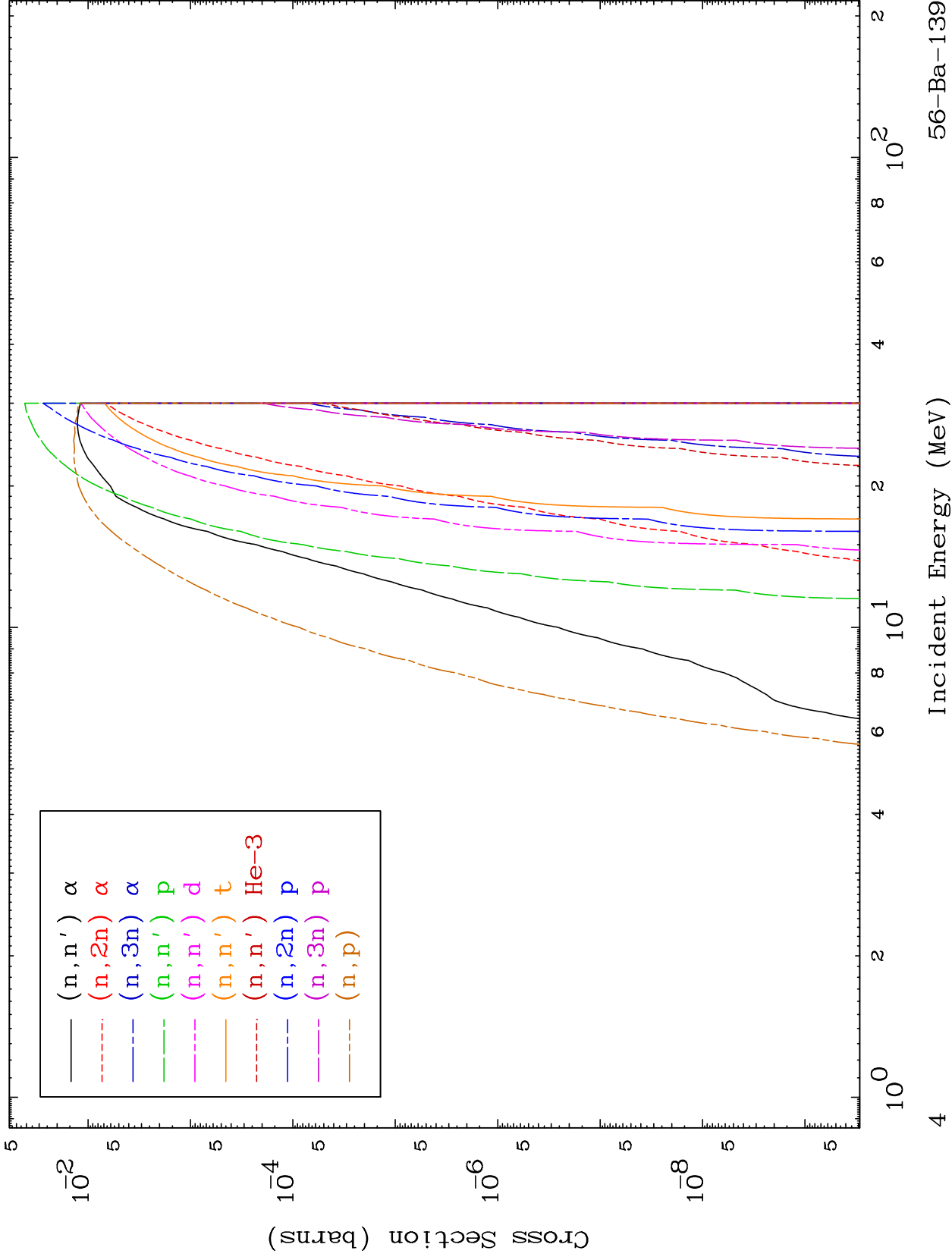
56-Ba-139



MAT 5652

Charged Particle
293 Kelvin Cross Sections

56-Ba-139



56-Ba-139

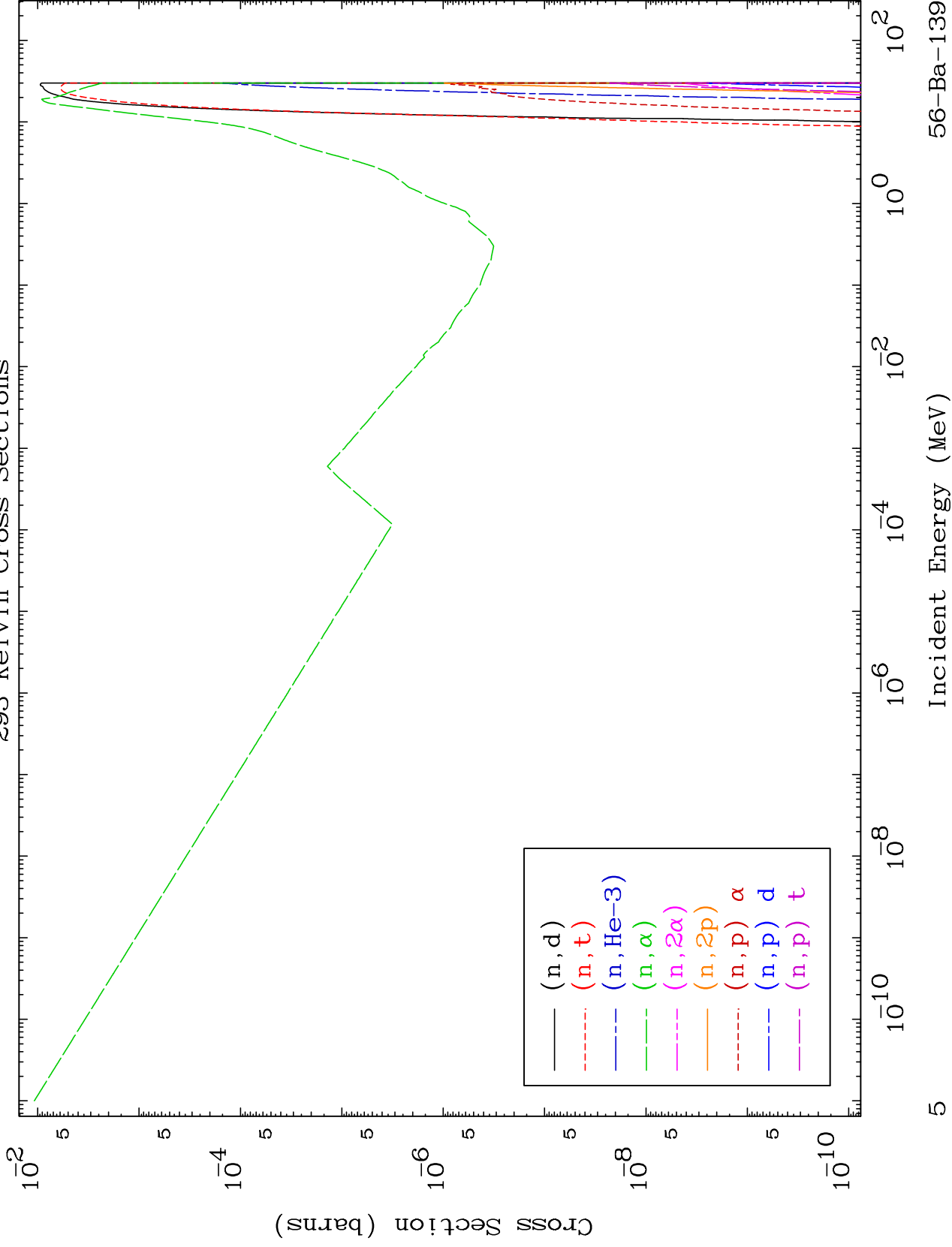
Incident Energy (MeV)

4

MAT 5652

Charged Particle
293 Kelvin Cross Sections

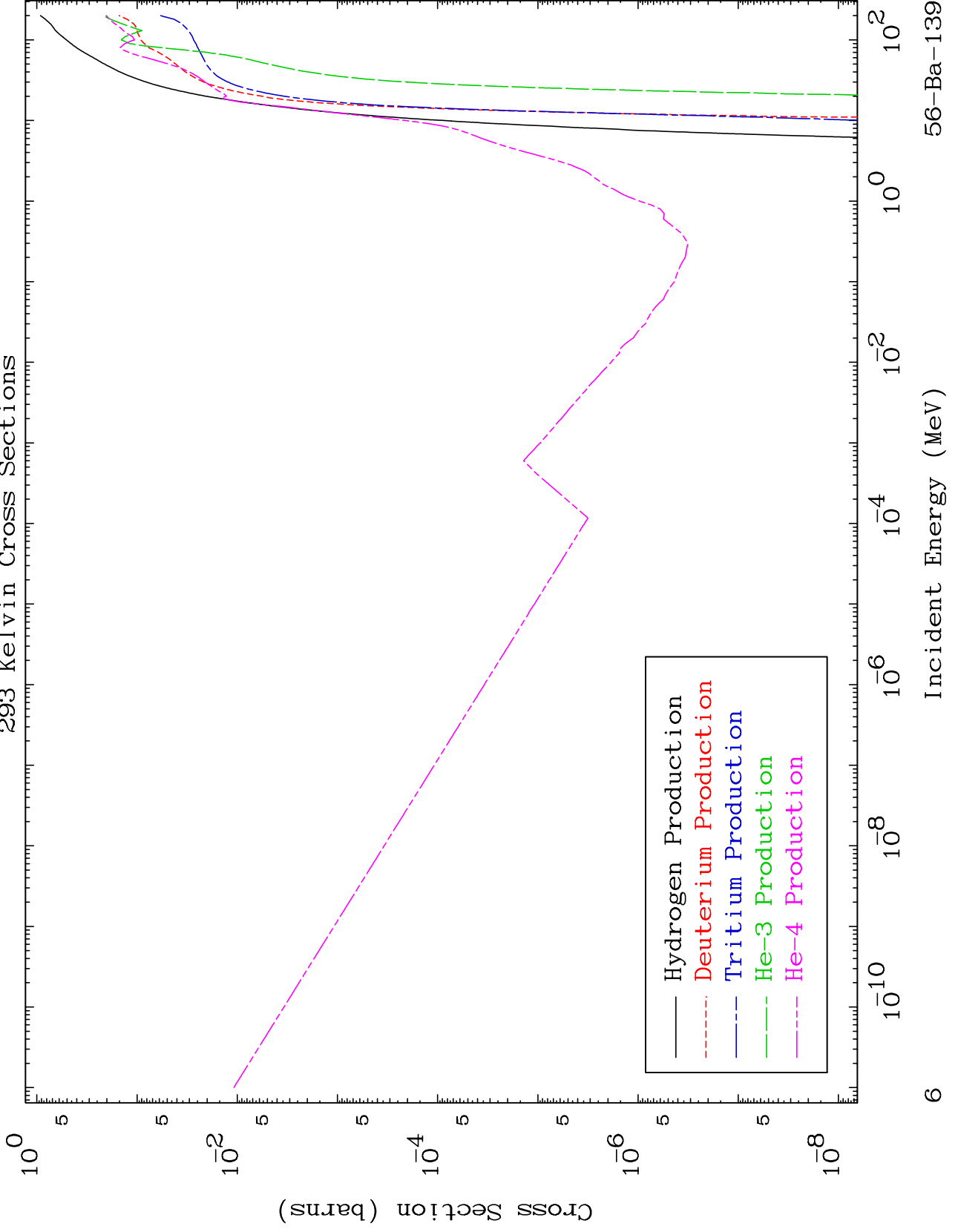
56-Ba-139



MAT 5652

Particle Production
293 Kelvin Cross Sections

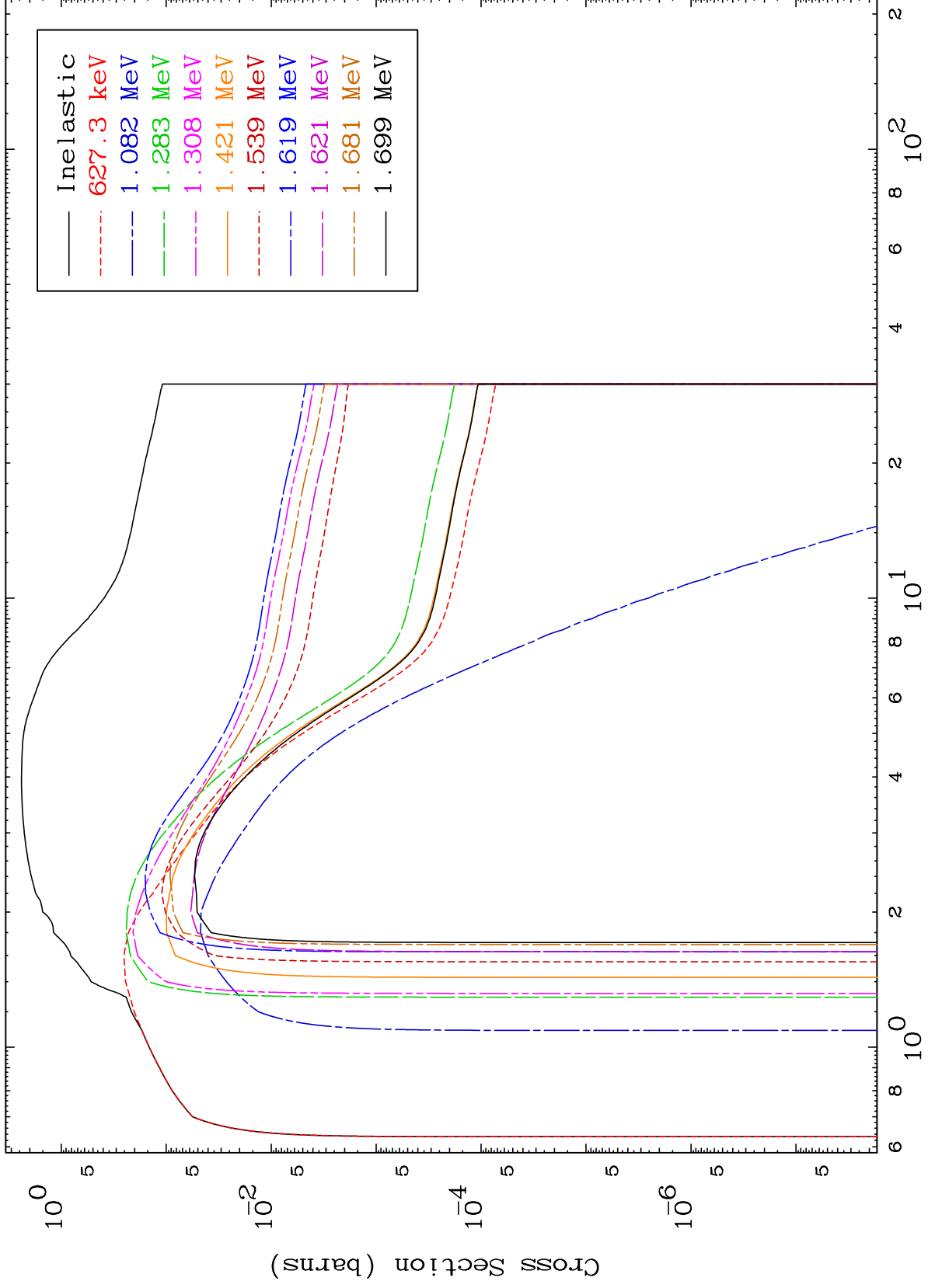
56-Ba-139



MAT 5652

(n,n') Level
293 Kelvin Cross Sections

56-Ba-139



7

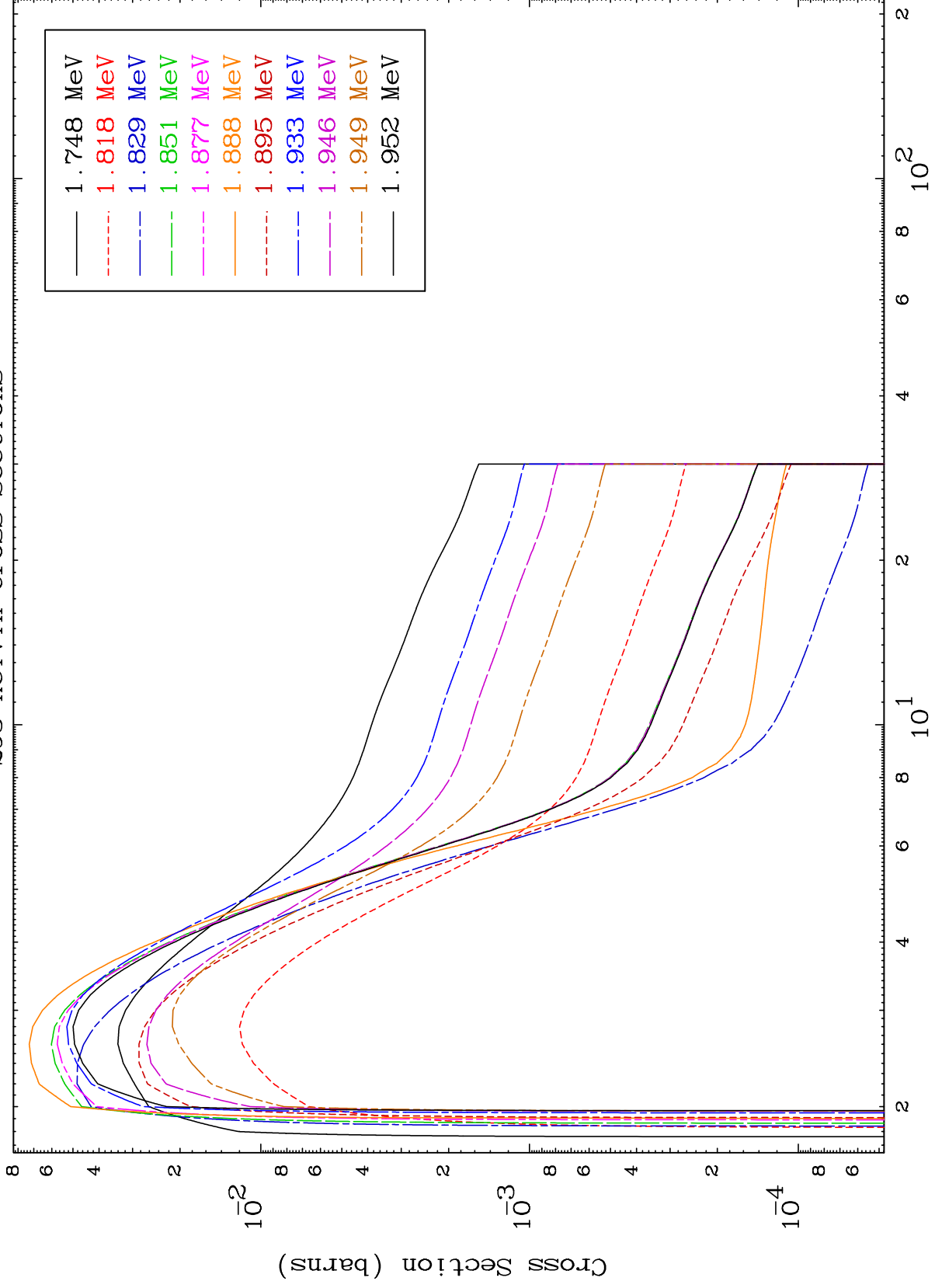
Incident Energy (MeV)

56-Ba-139

MAT 5652

(n,n') Level
293 Kelvin Cross Sections

56-Ba-139



8

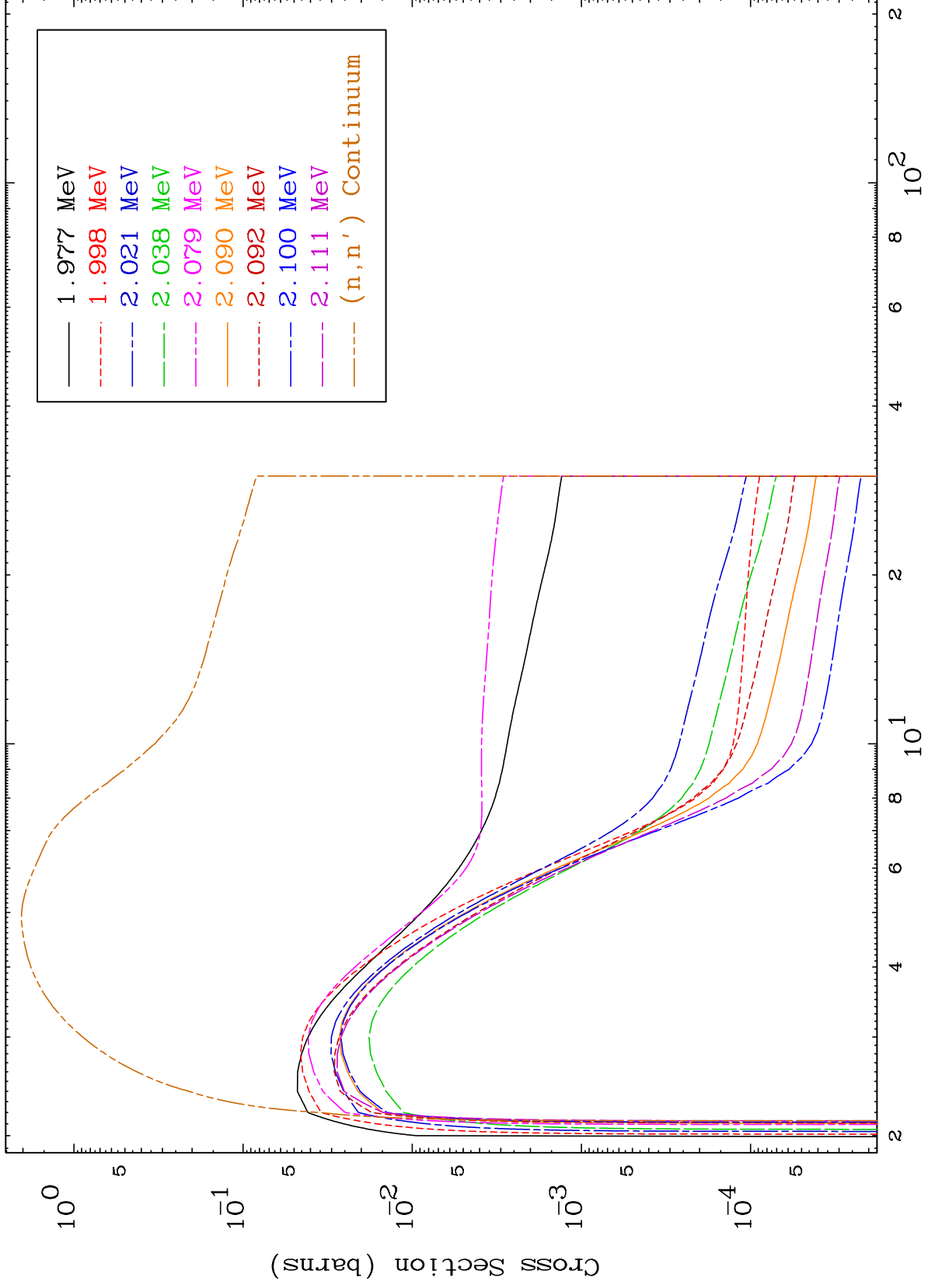
Incident Energy (MeV)

56-Ba-139

MAT 5652

(n,n') Level
293 Kelvin Cross Sections

56-Ba-139



9

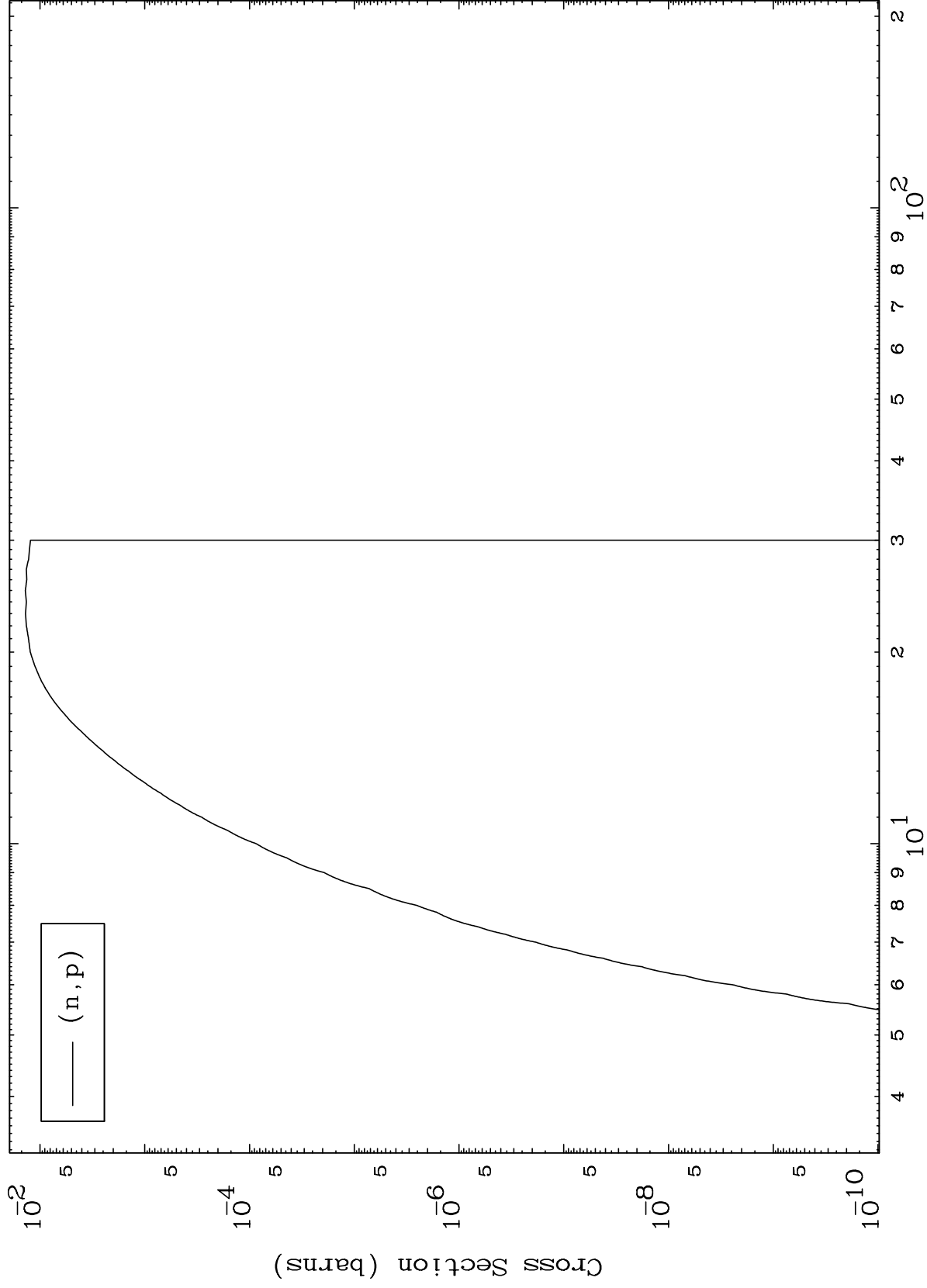
Incident Energy (MeV)

56-Ba-139

MAT 5652

(n,p) Levels
293 Kelvin Cross Sections

56-Ba-139



10

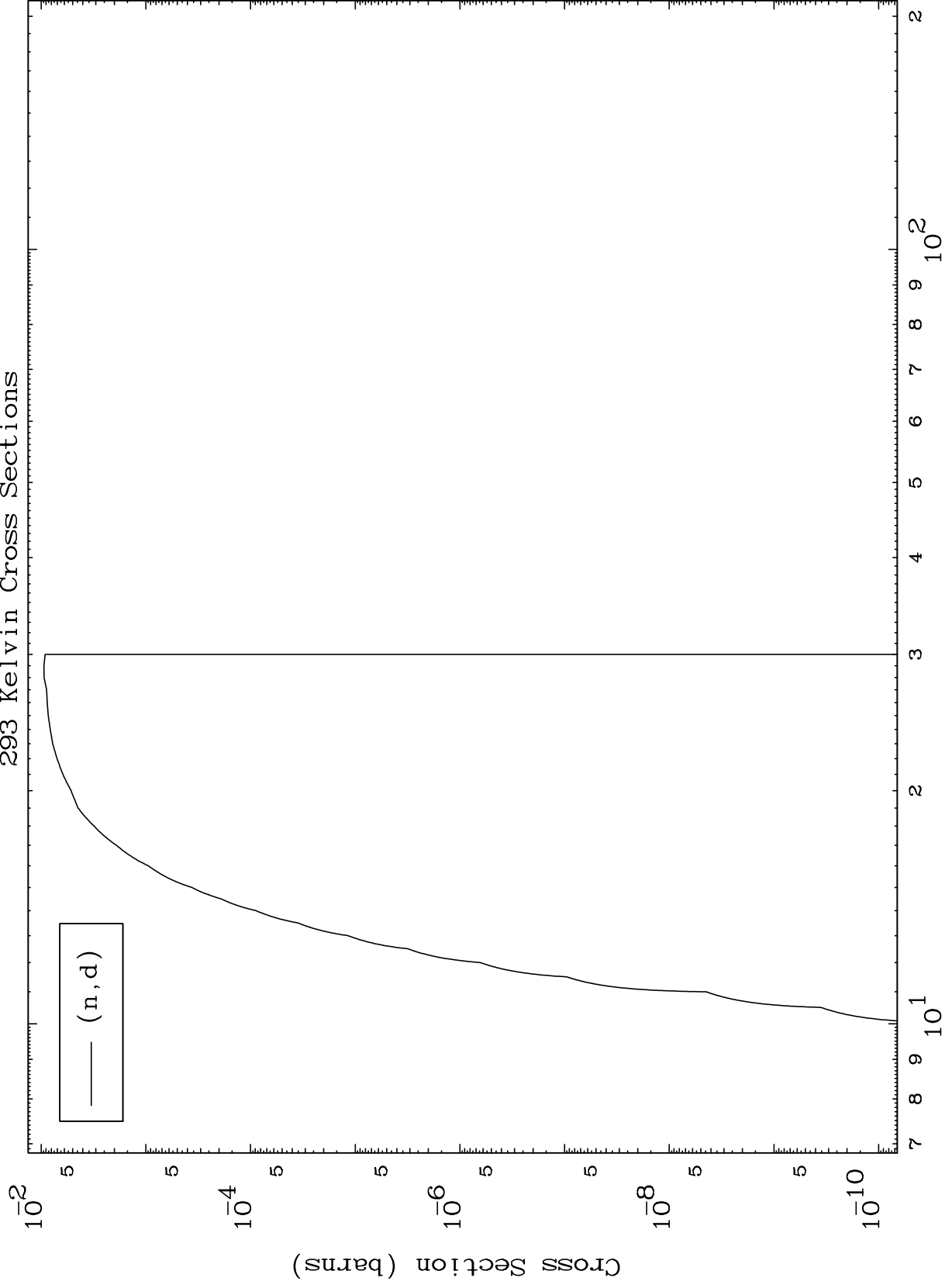
Incident Energy (MeV)

56-Ba-139

MAT 5652

(n,d) Levels
293 Kelvin Cross Sections

56-Ba-139



11

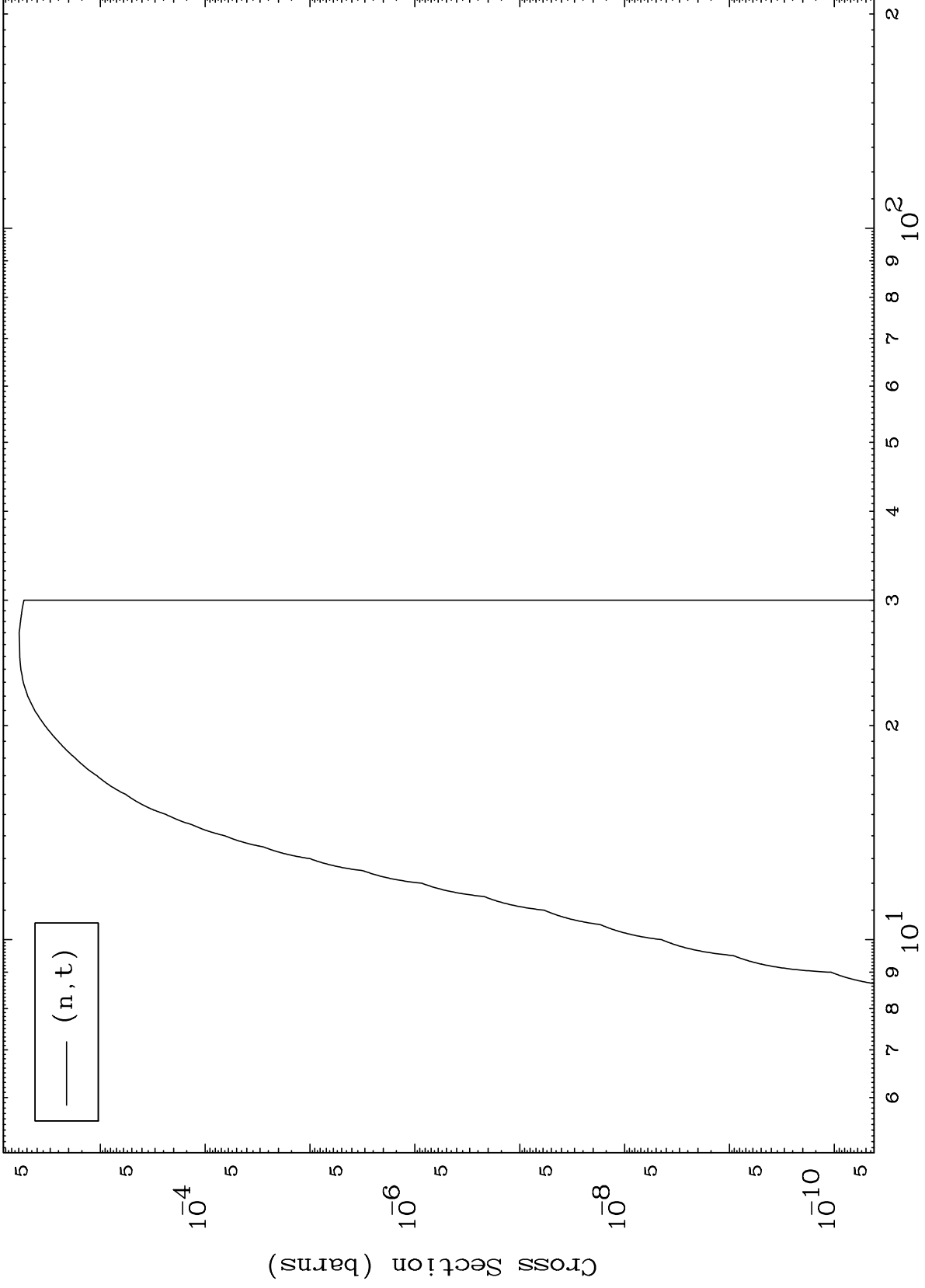
Incident Energy (MeV)

56-Ba-139

MAT 5652

(n,t) Levels
293 Kelvin Cross Sections

56-Ba-139



12

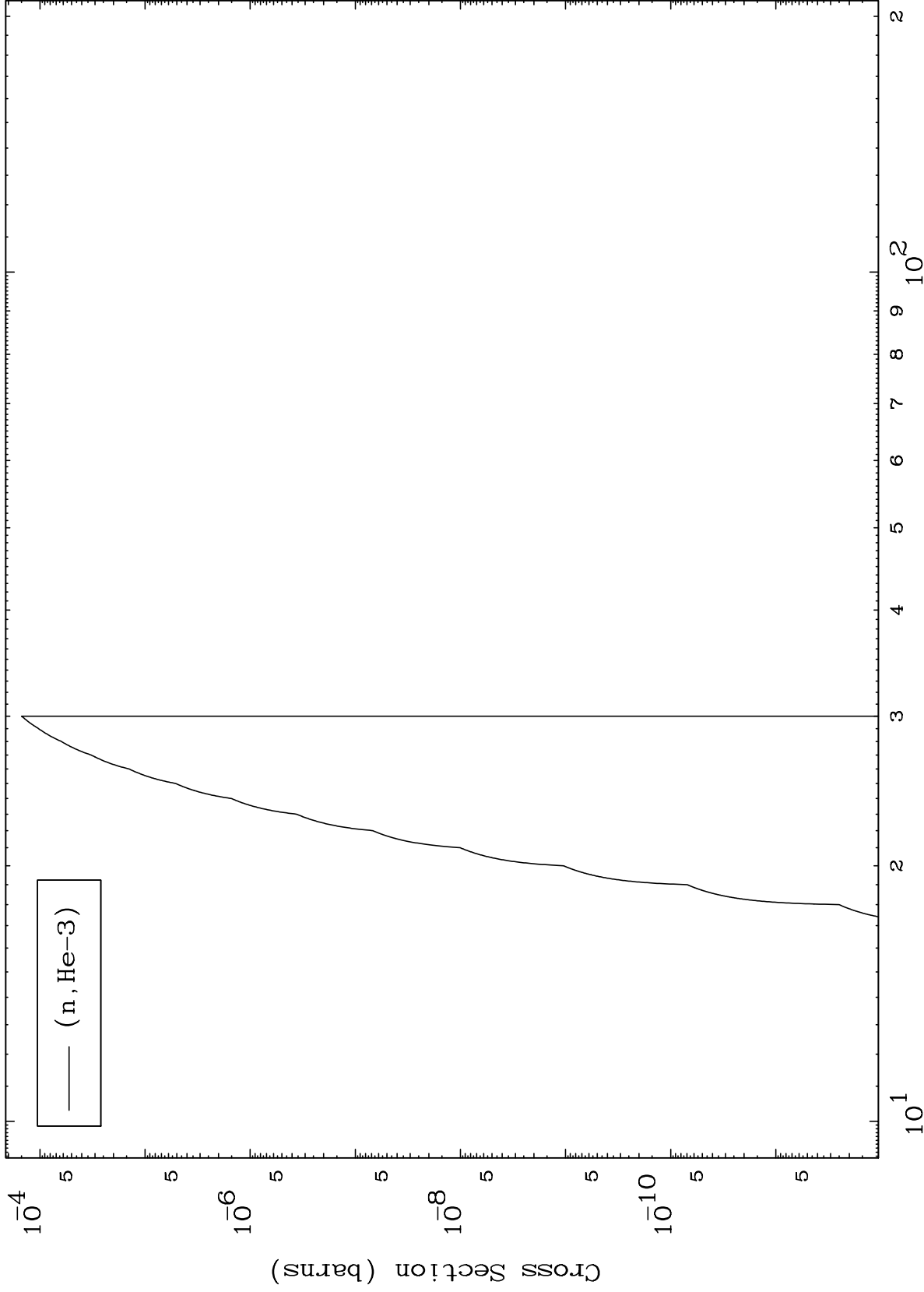
Incident Energy (MeV)

56-Ba-139

MAT 5652

(n,He3) Levels
293 Kelvin Cross Sections

56-Ba-139



13

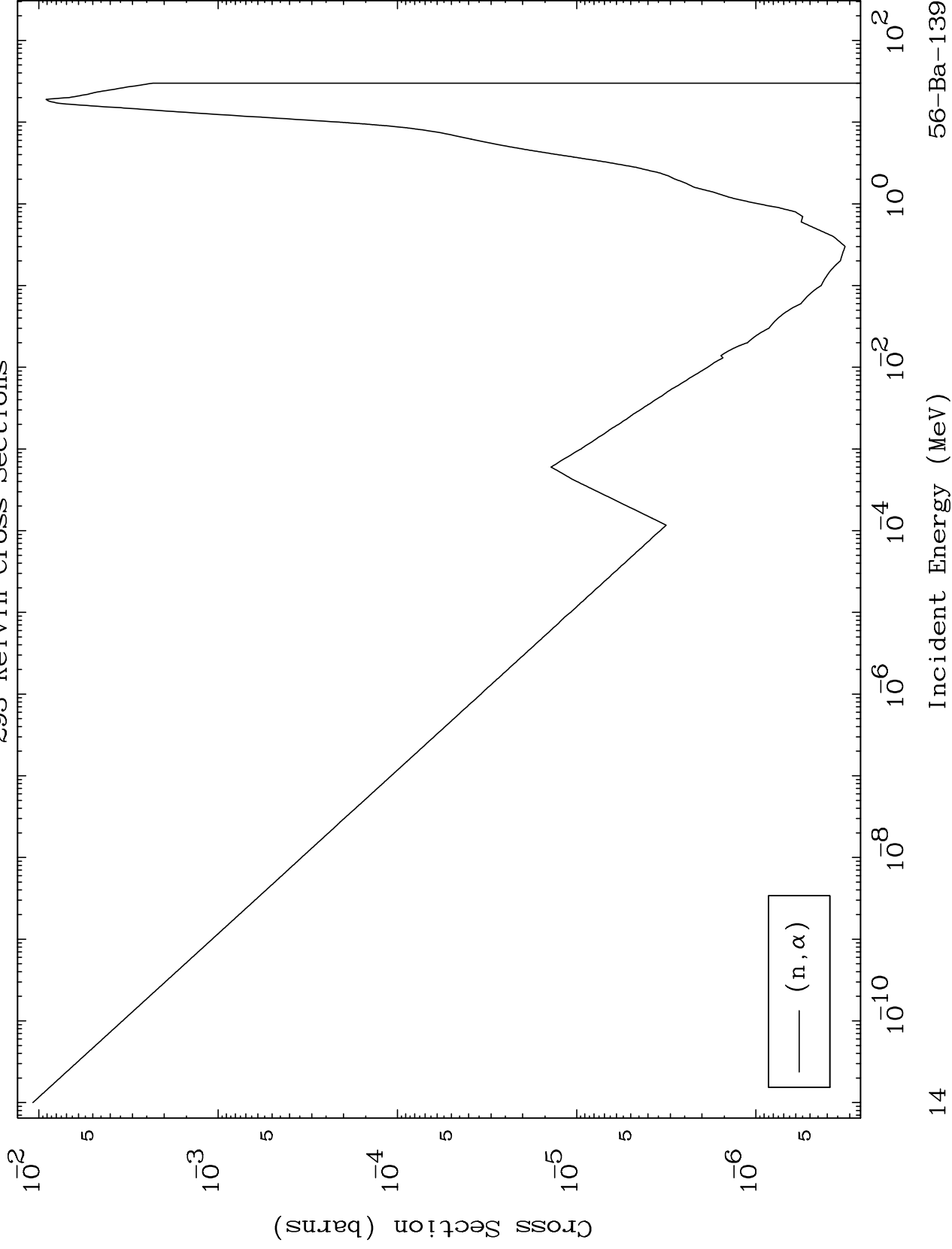
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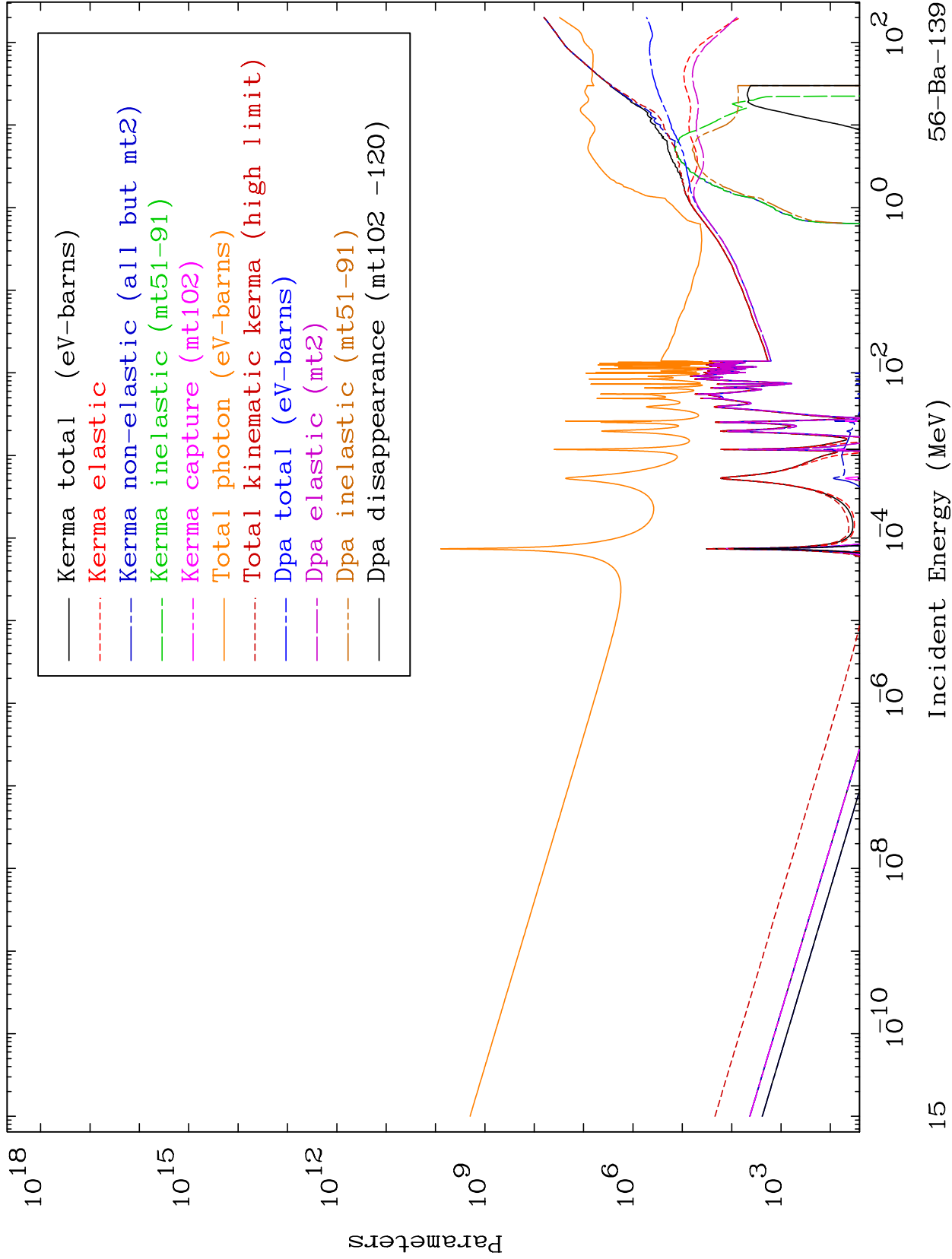
56-Ba-139

MAT 5652

(n,α) Levels
293 Kelvin Cross Sections

56-Ba-139

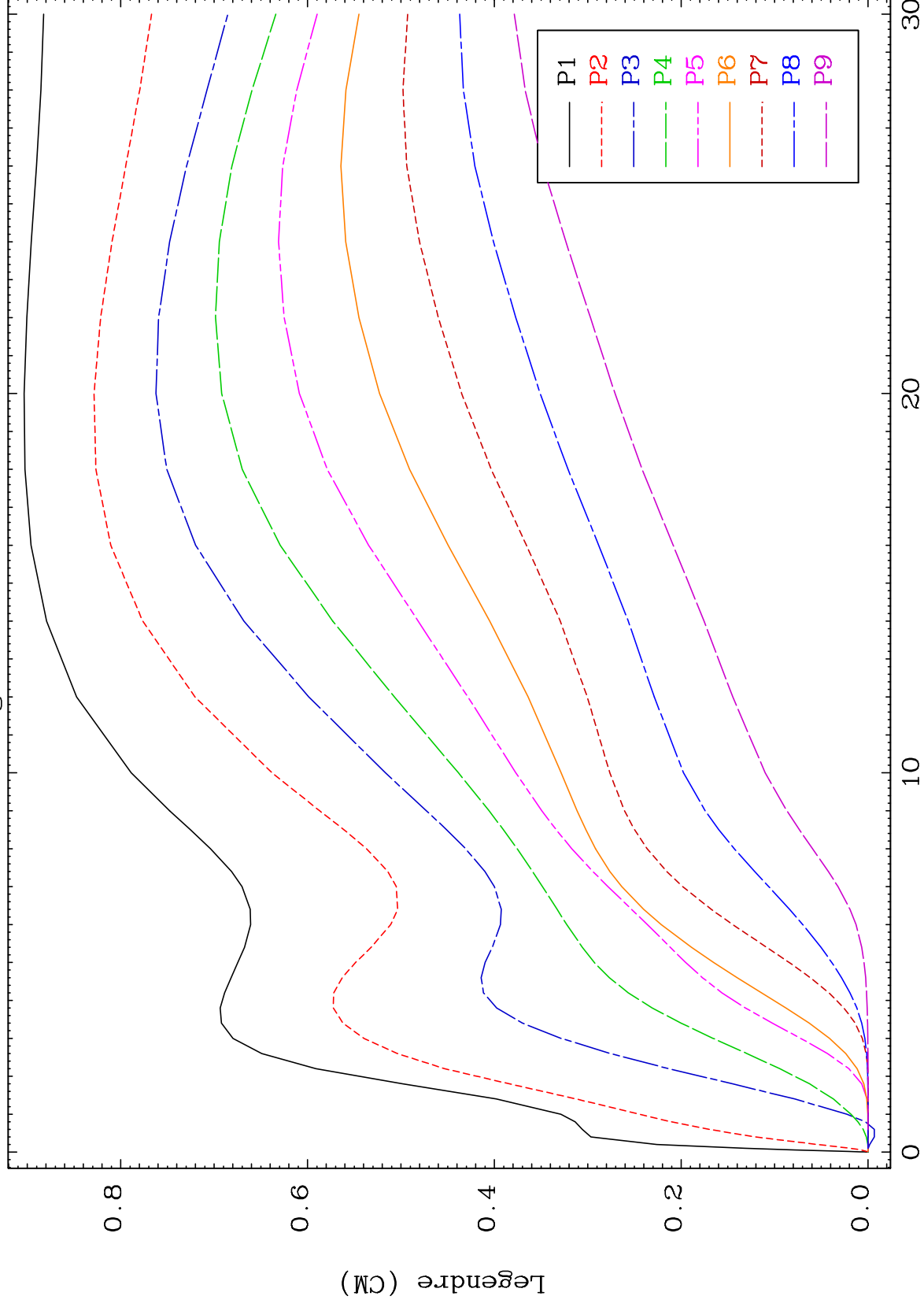




MAT 5652

Elastic Legendre Coefficients

56-Ba-139



16

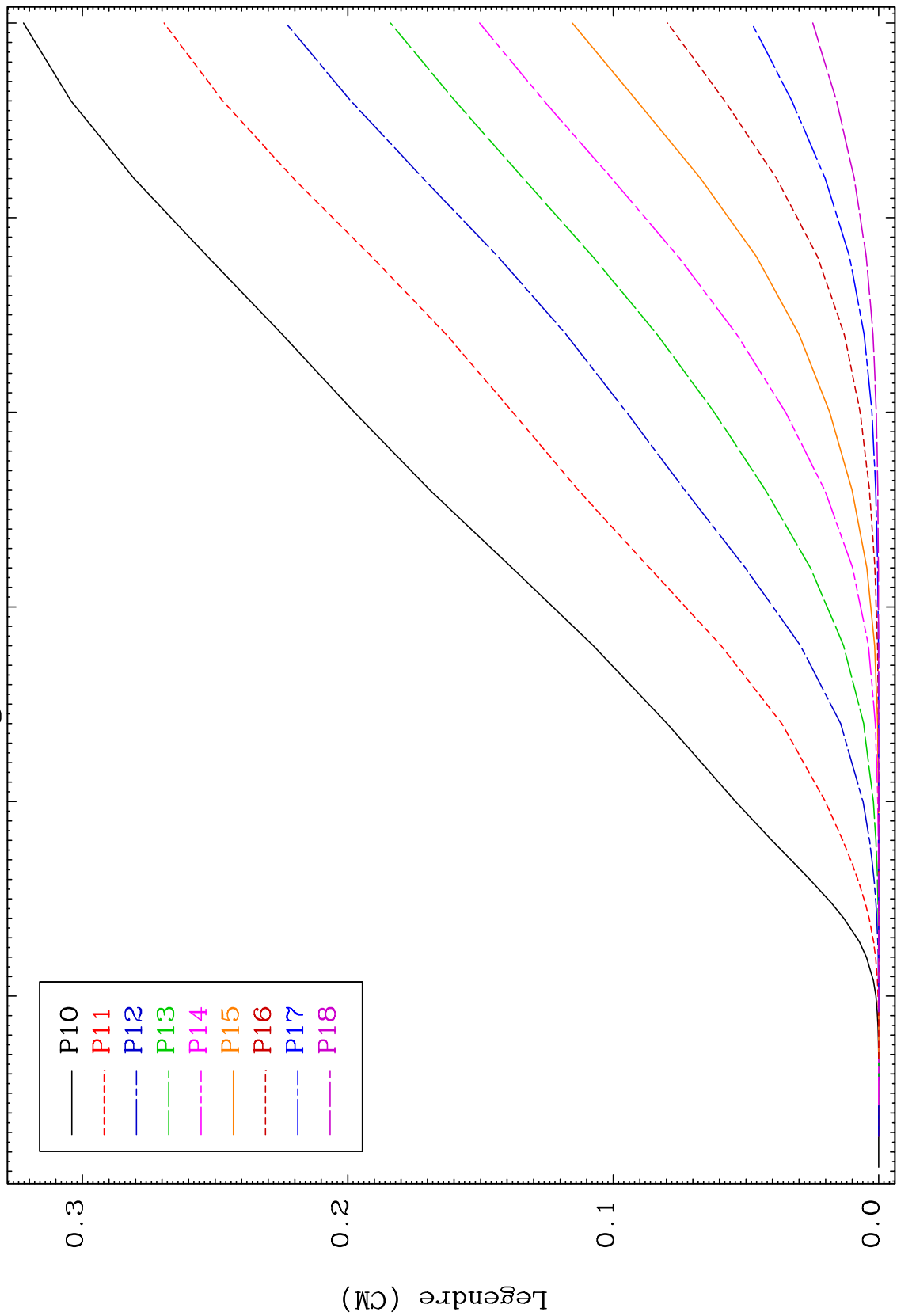
Incident Energy (MeV)

56-Ba-139

MAT 5652

Elastic Legendre Coefficients

56-Ba-139



17

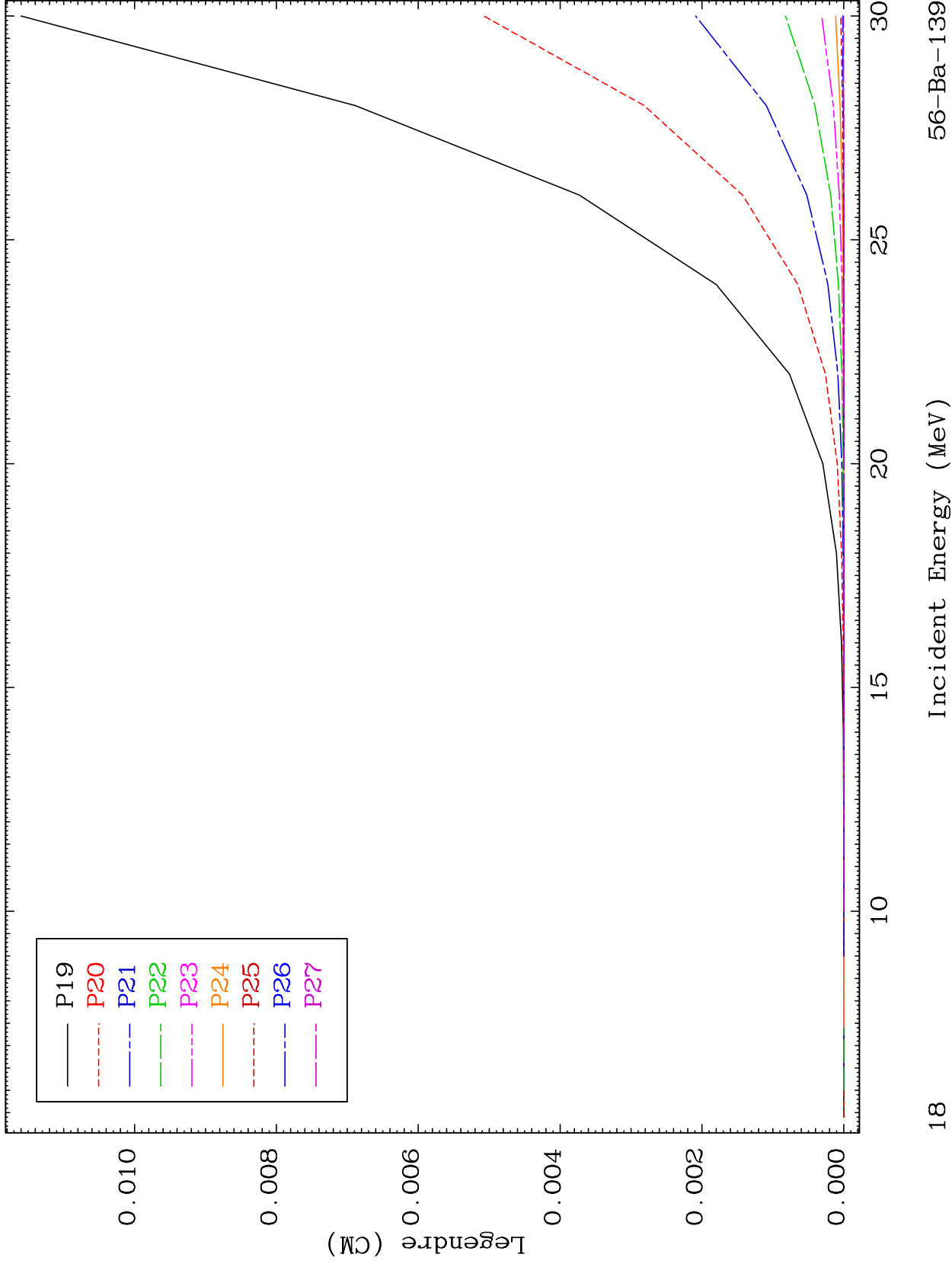
Incident Energy (MeV)

56-Ba-139

MAT 5652

Elastic Legendre Coefficients

56-Ba-139



18

Incident Energy (MeV)

56-Ba-139

30

25

20

15

10

Legendre (CM)

0.010

0.008

0.006

0.004

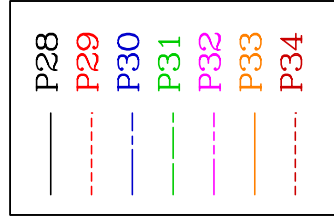
0.002

0.000

MAT 5652

Elastic
Legendre Coefficients

56-Ba-139



$\times 10^{-6}$

Legendre (CM)

1.0

0.8

0.6

0.4

0.2

0.0

15

20

25

30

10

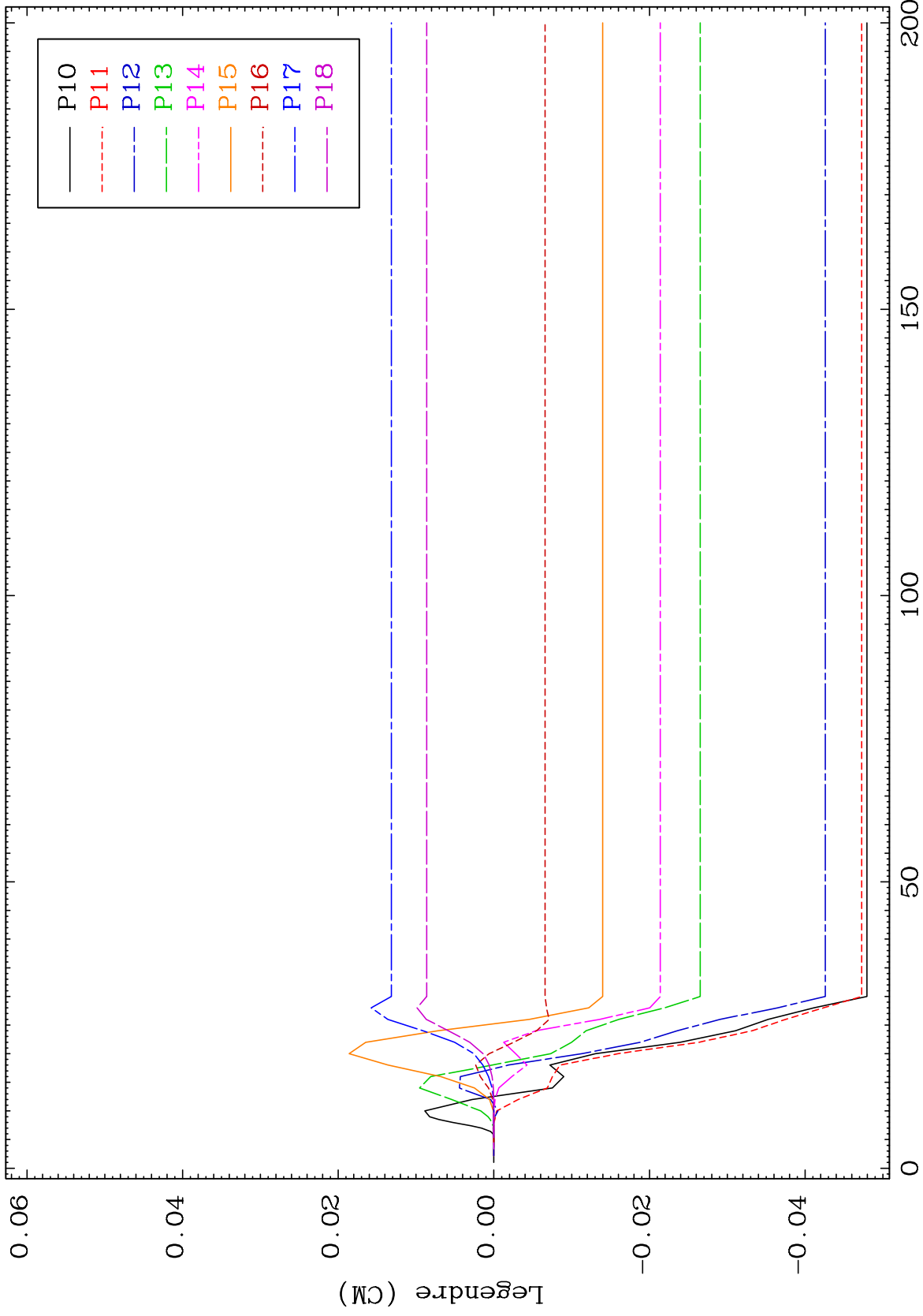
Incident Energy (MeV)

56-Ba-139

MAT 5652

627.3 keV (n,n') Level
Legendre Coefficients

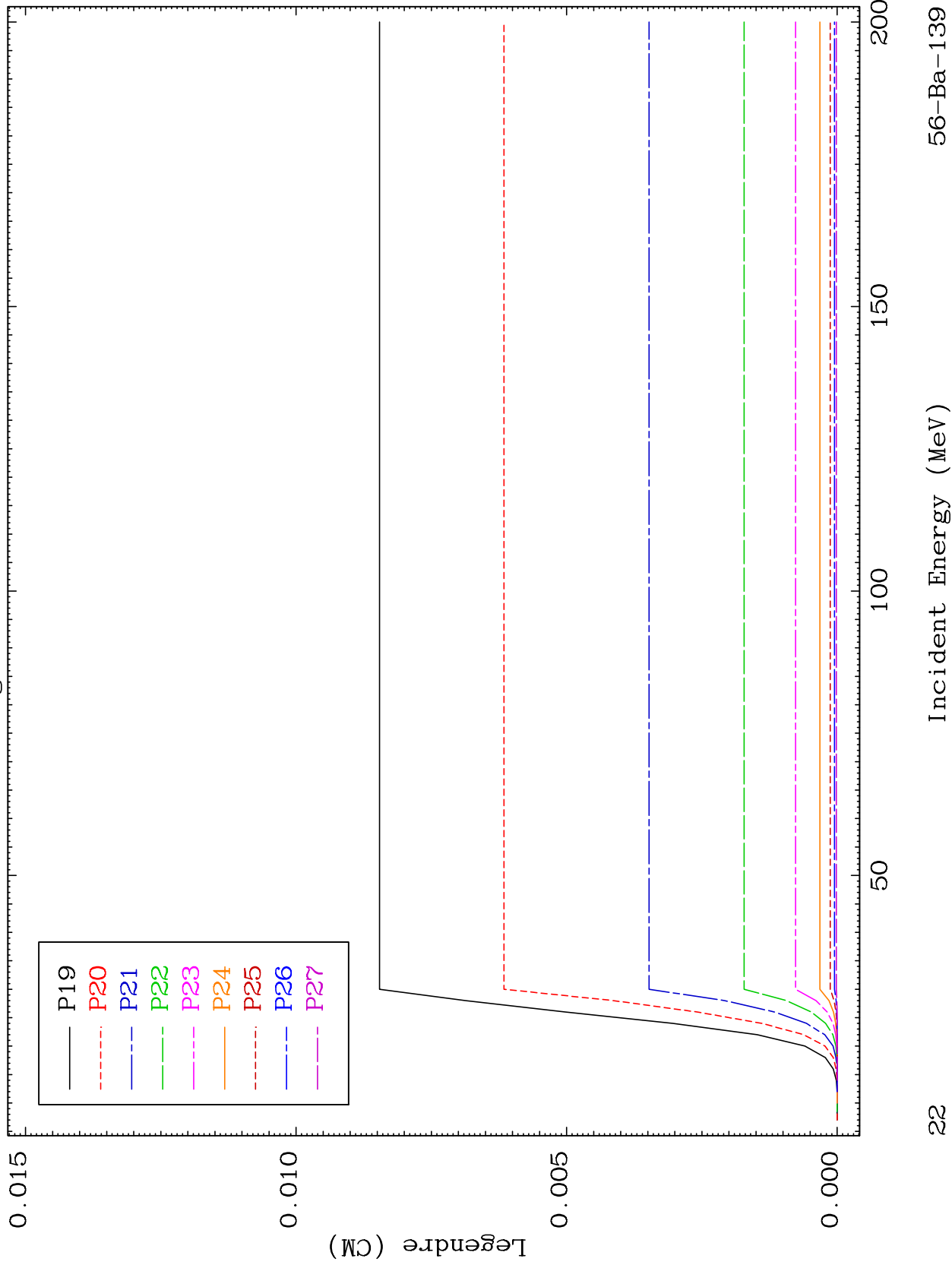
56-Ba-139



21

Incident Energy (MeV)

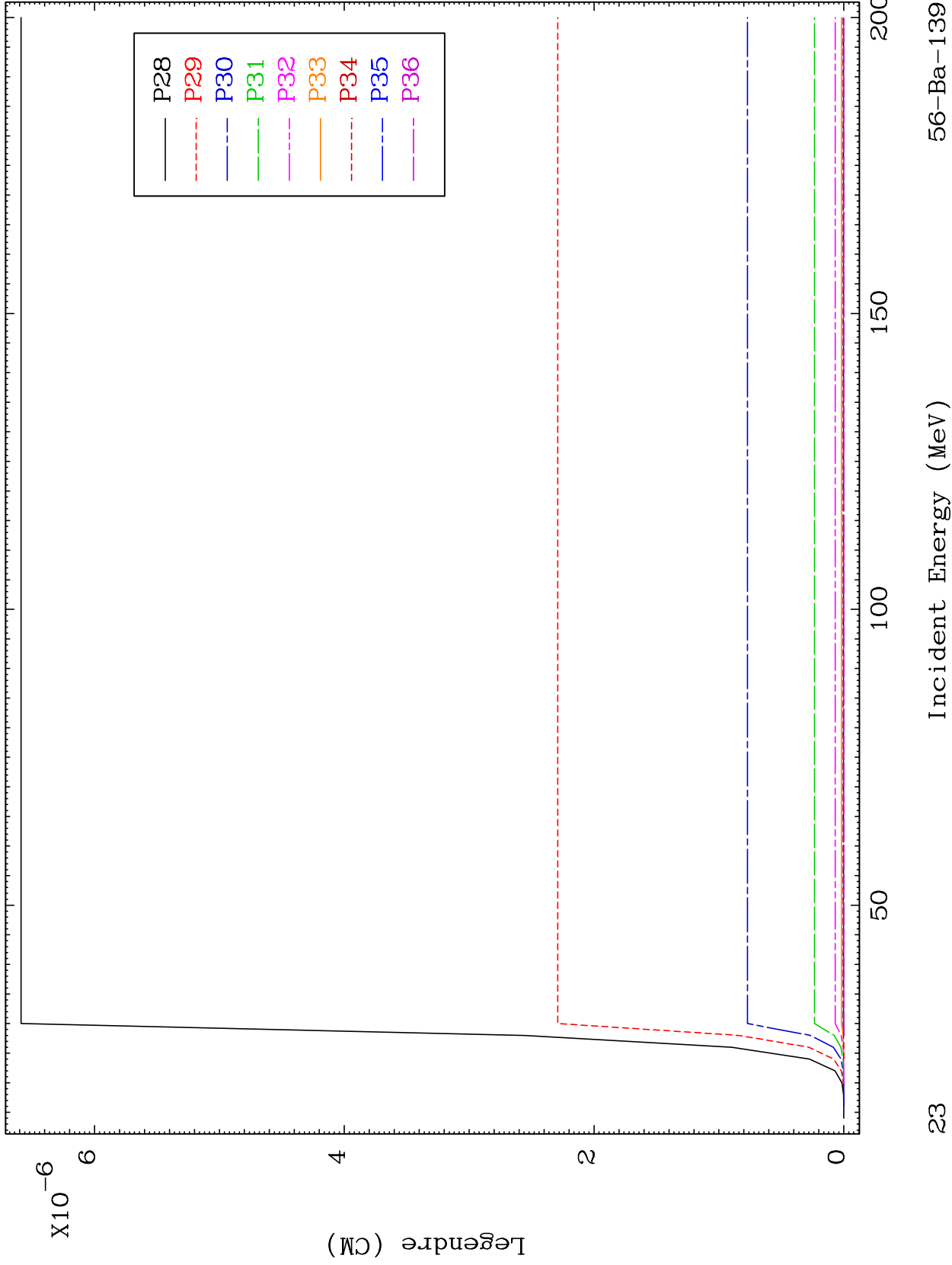
56-Ba-139



MAT 5652

627.3 keV (n,n') Level
Legendre Coefficients

56-Ba-139

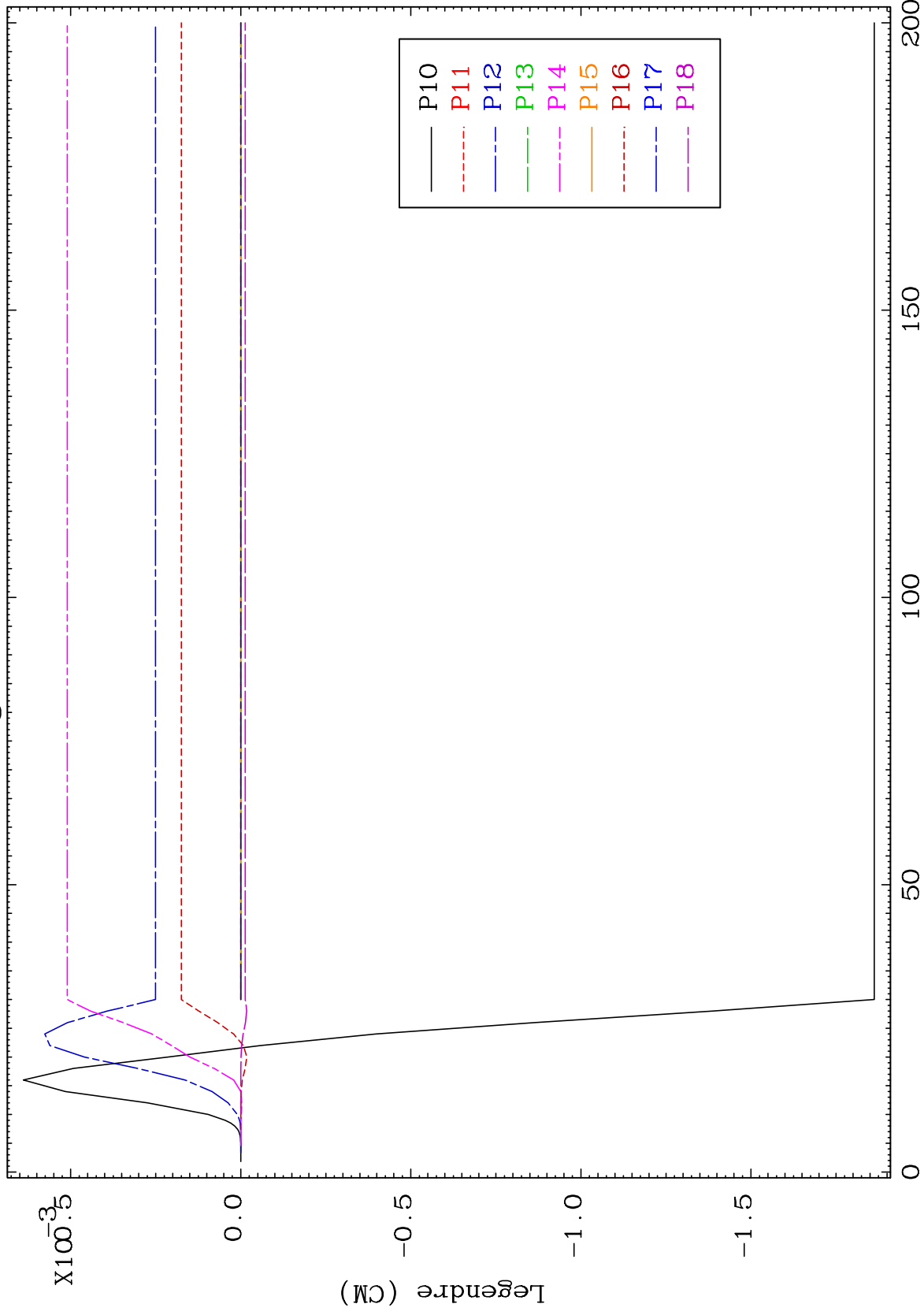


23

MAT 5652

1.082 MeV (n,n') Level
Legendre Coefficients

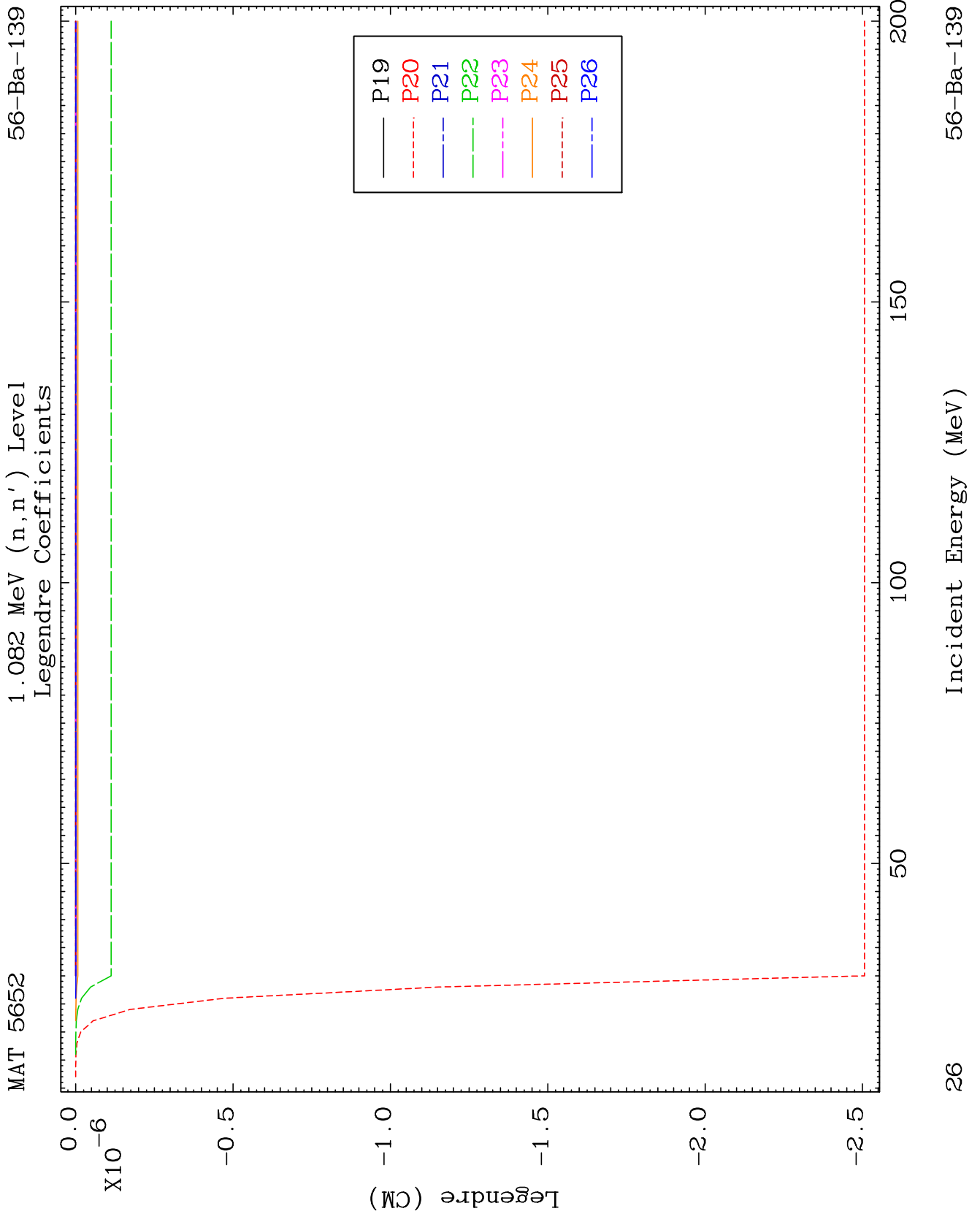
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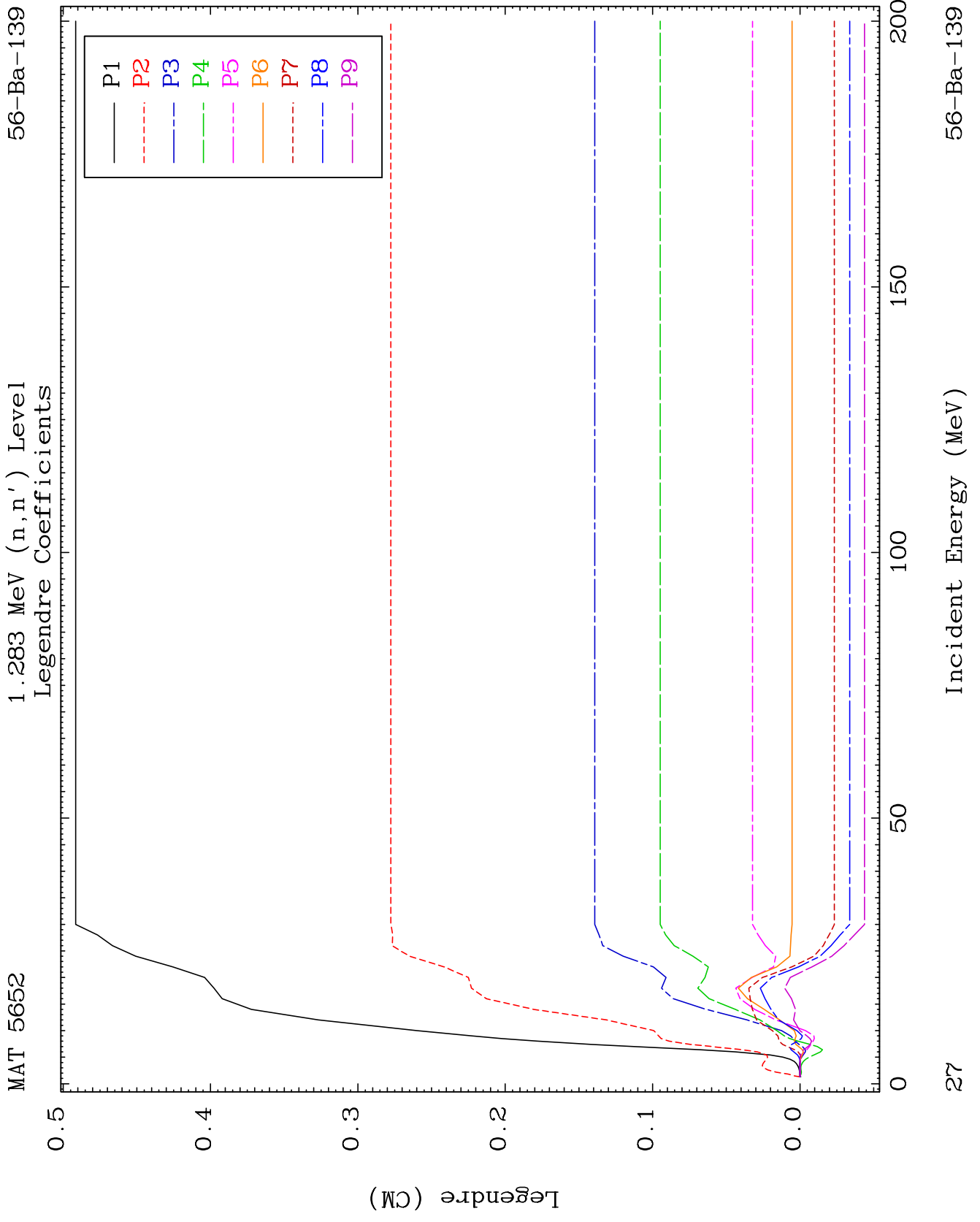


25

Incident Energy (MeV)

56-Ba-139

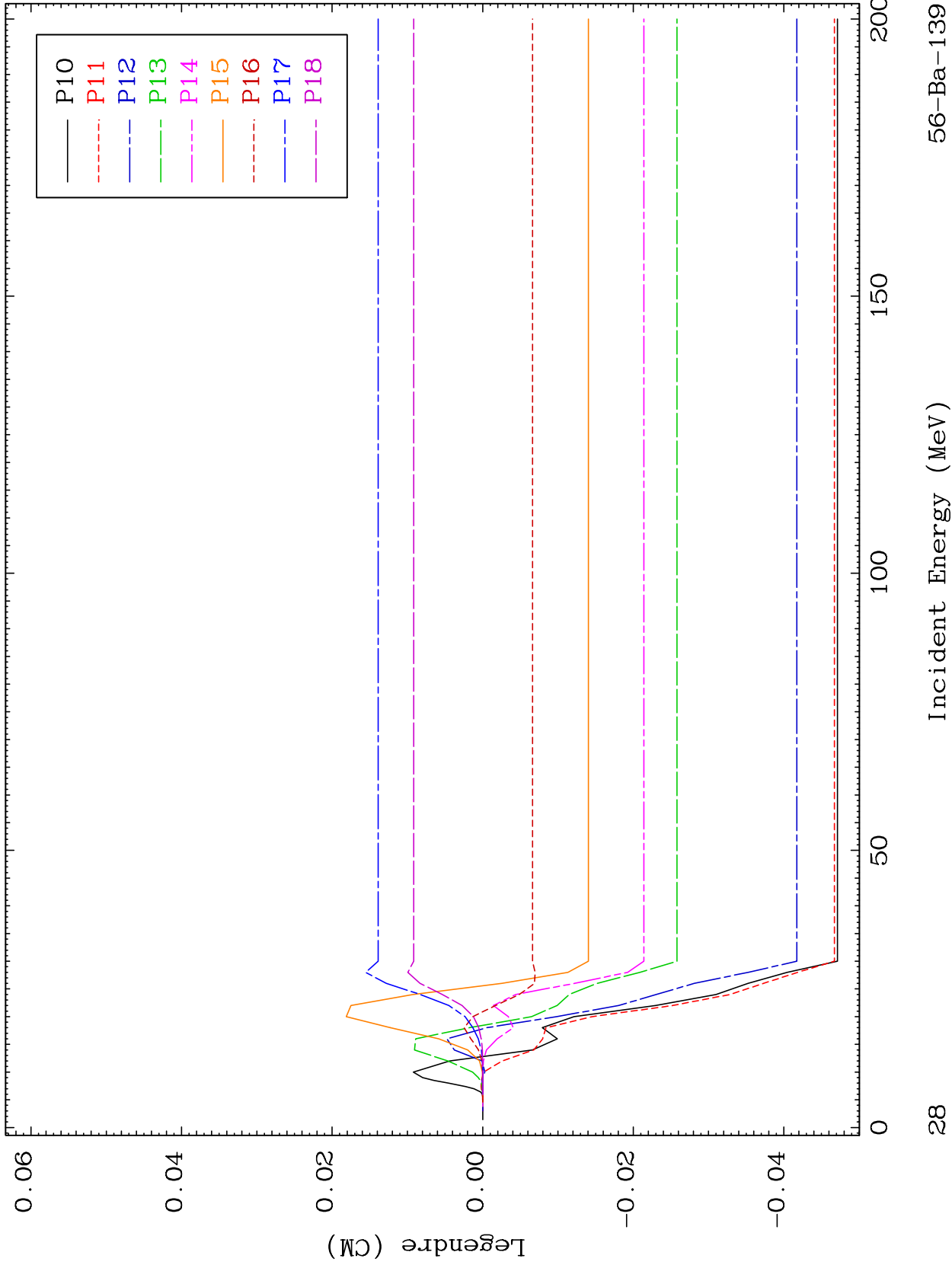




MAT 5652

1.283 MeV (n,n') Level
Legendre Coefficients

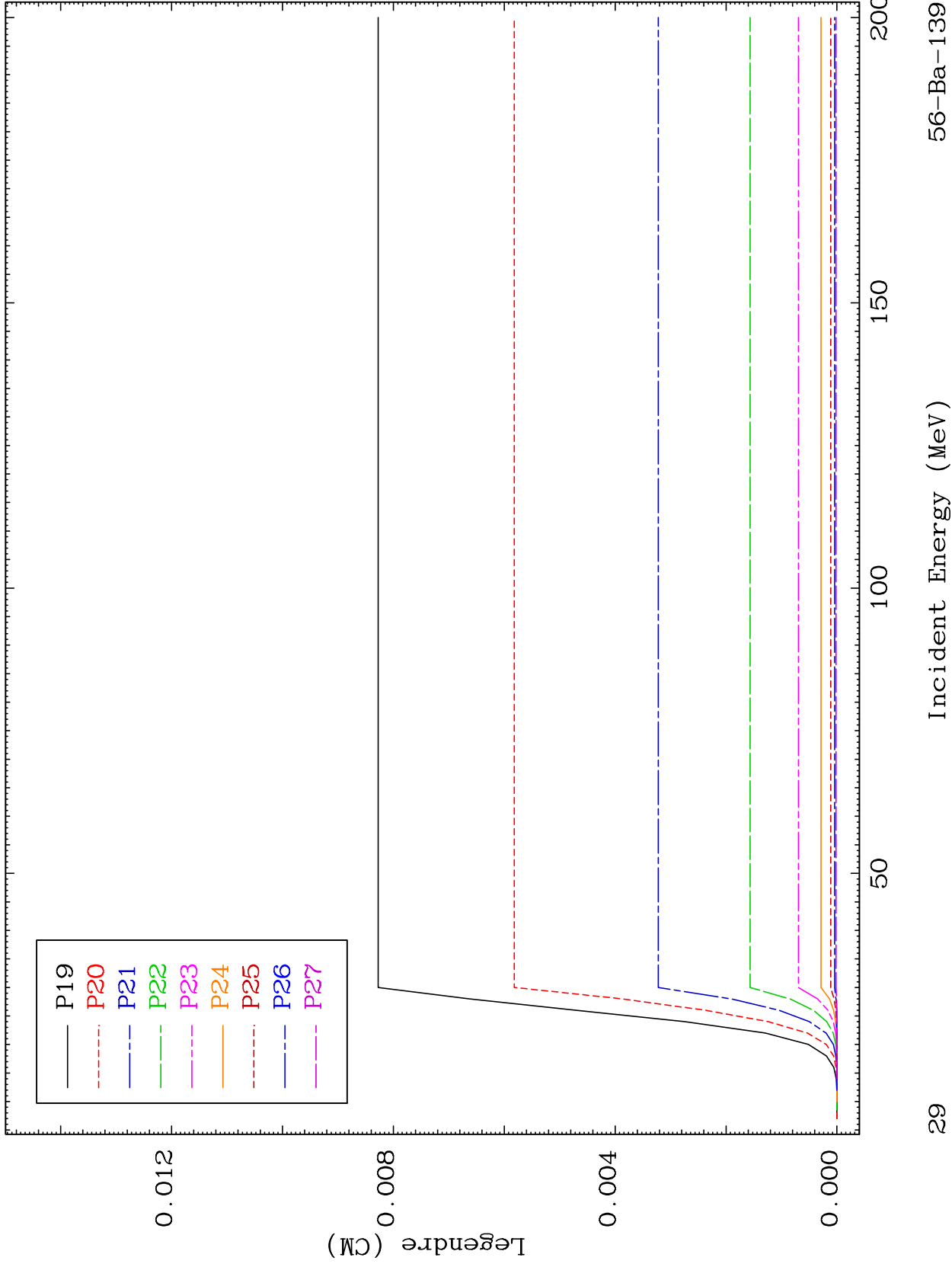
56-Ba-139



56-Ba-139

Incident Energy (MeV)

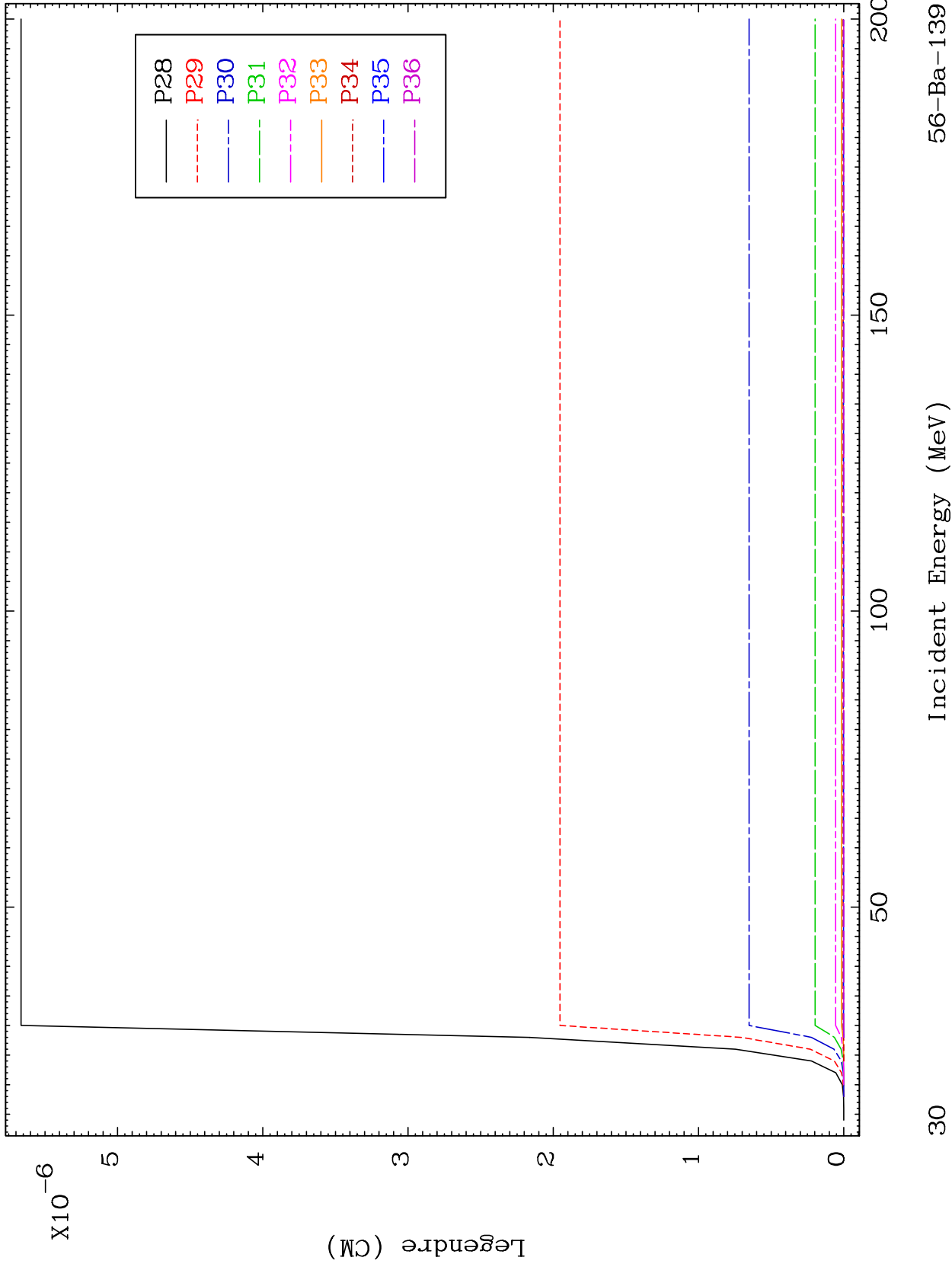
28

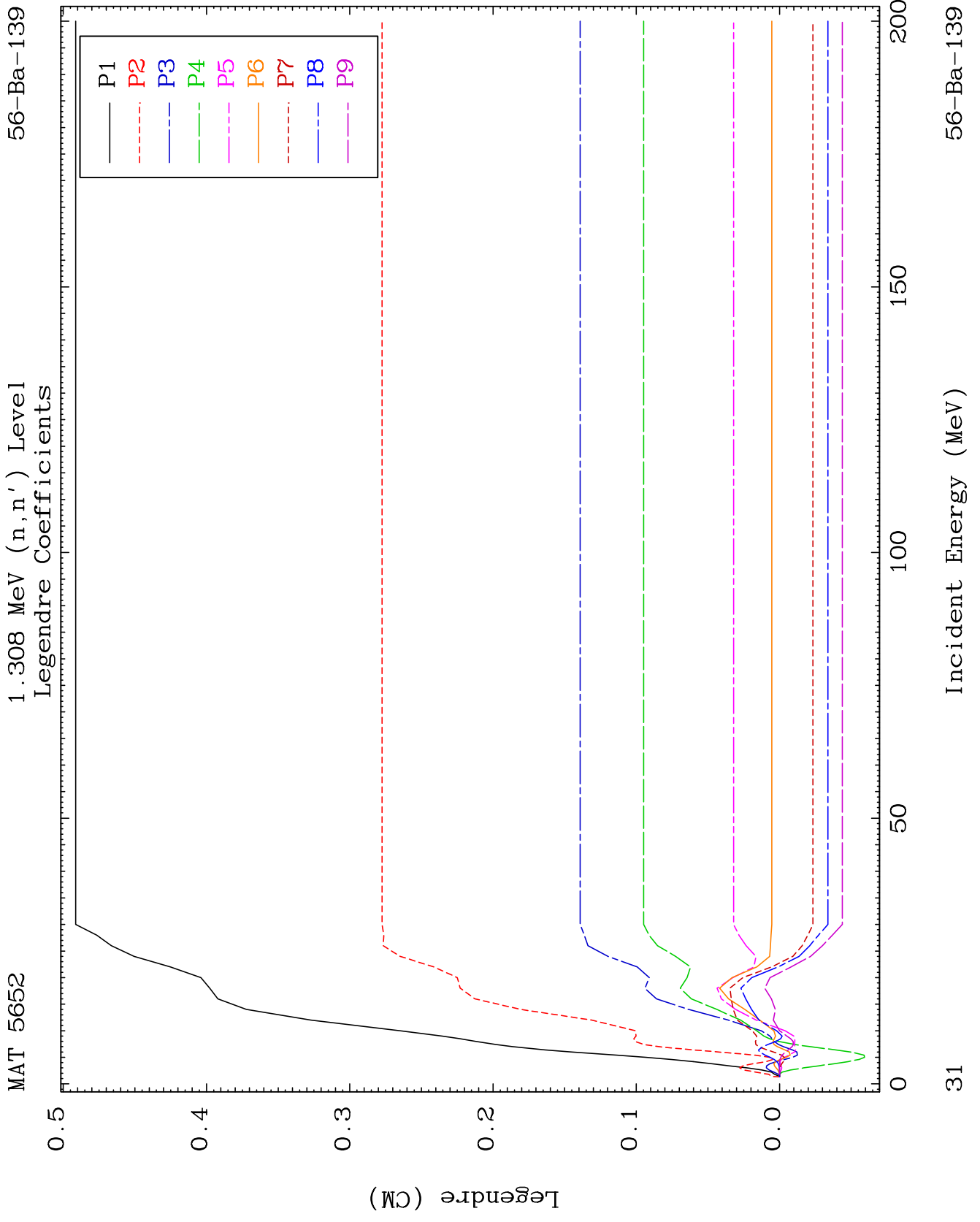


MAT 5652

1.283 MeV (n,n') Level
Legendre Coefficients

56-Ba-139

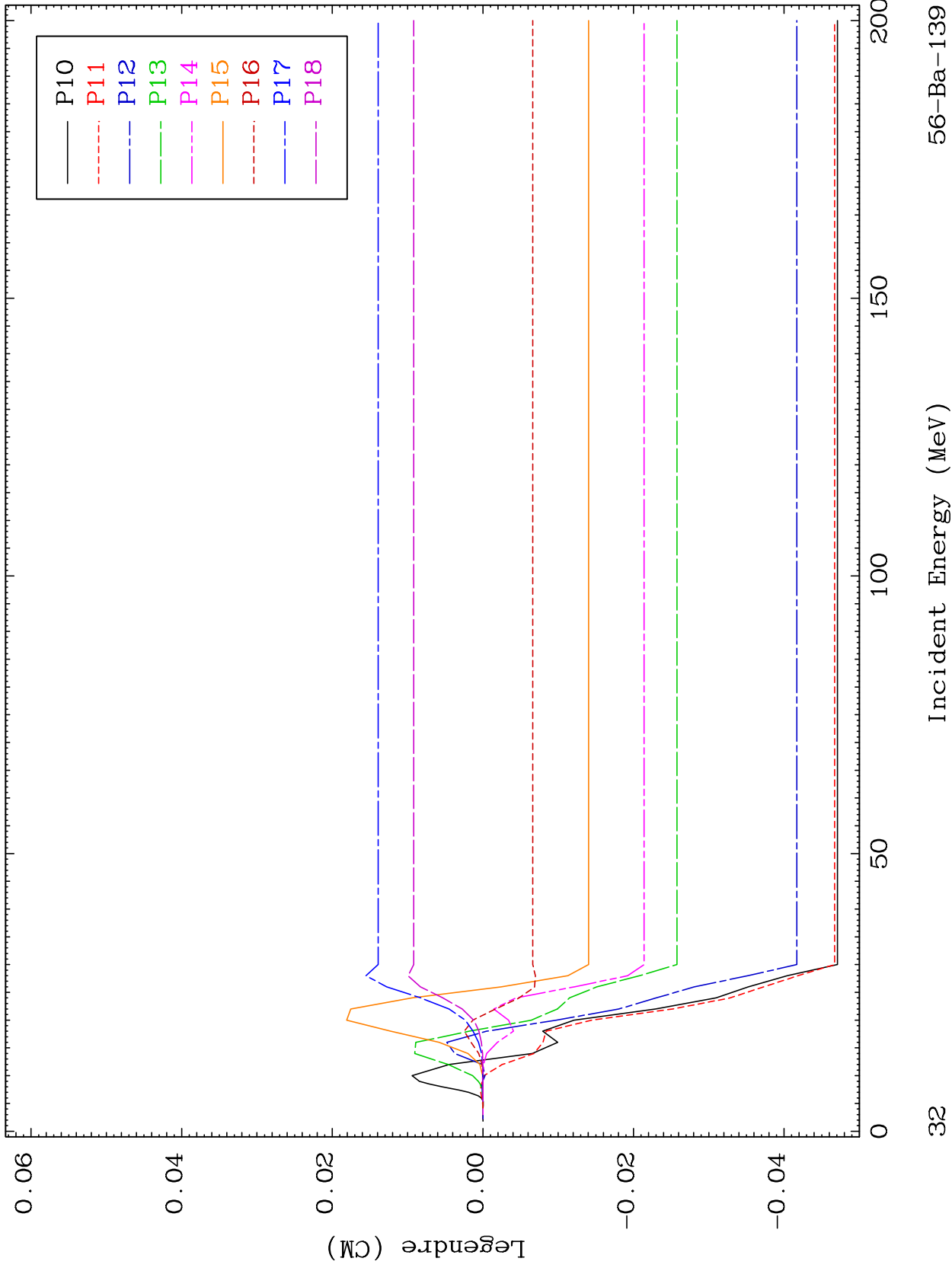




MAT 5652

1.308 MeV (n,n') Level
Legendre Coefficients

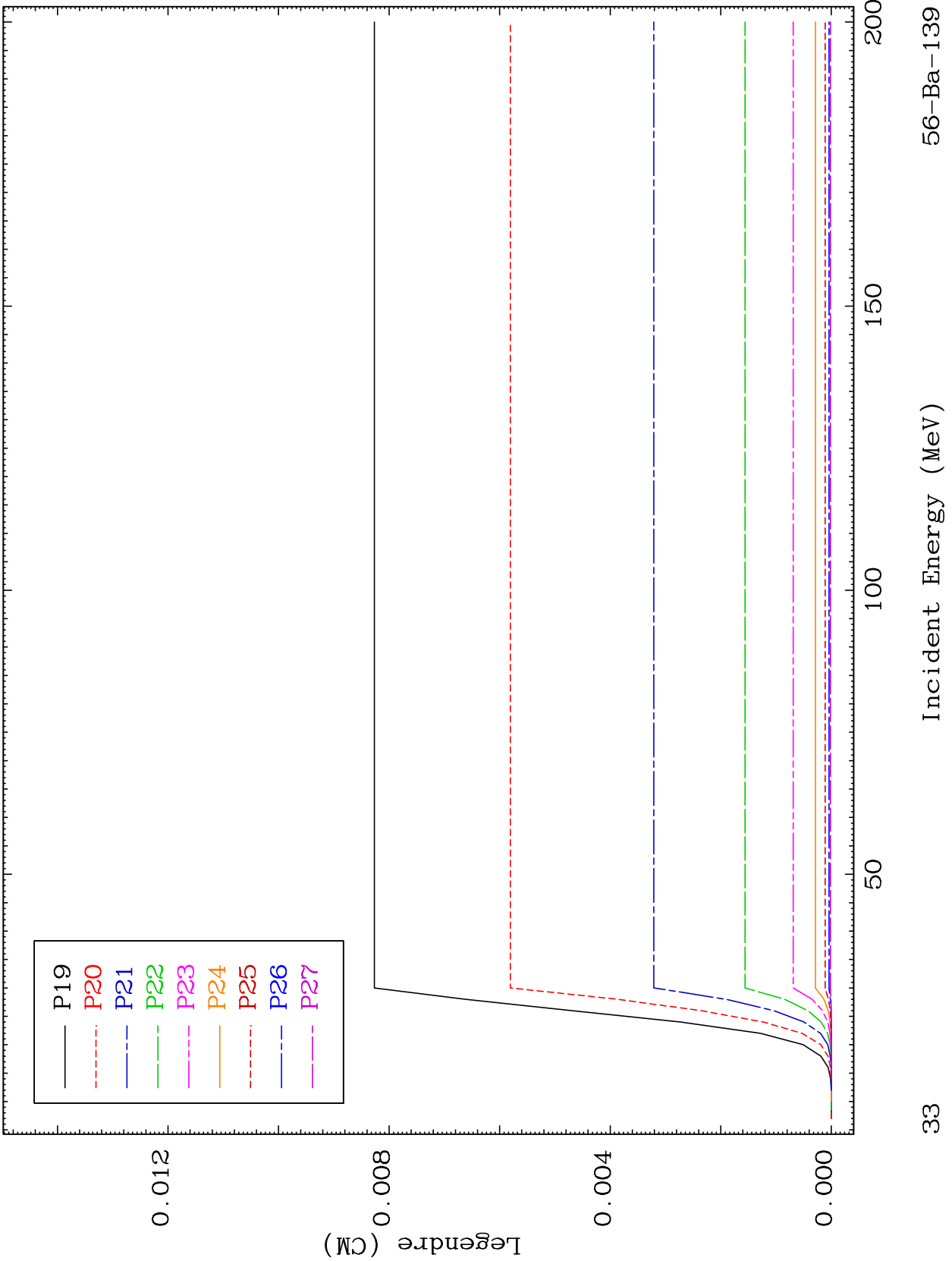
56-Ba-139



56-Ba-139

Incident Energy (MeV)

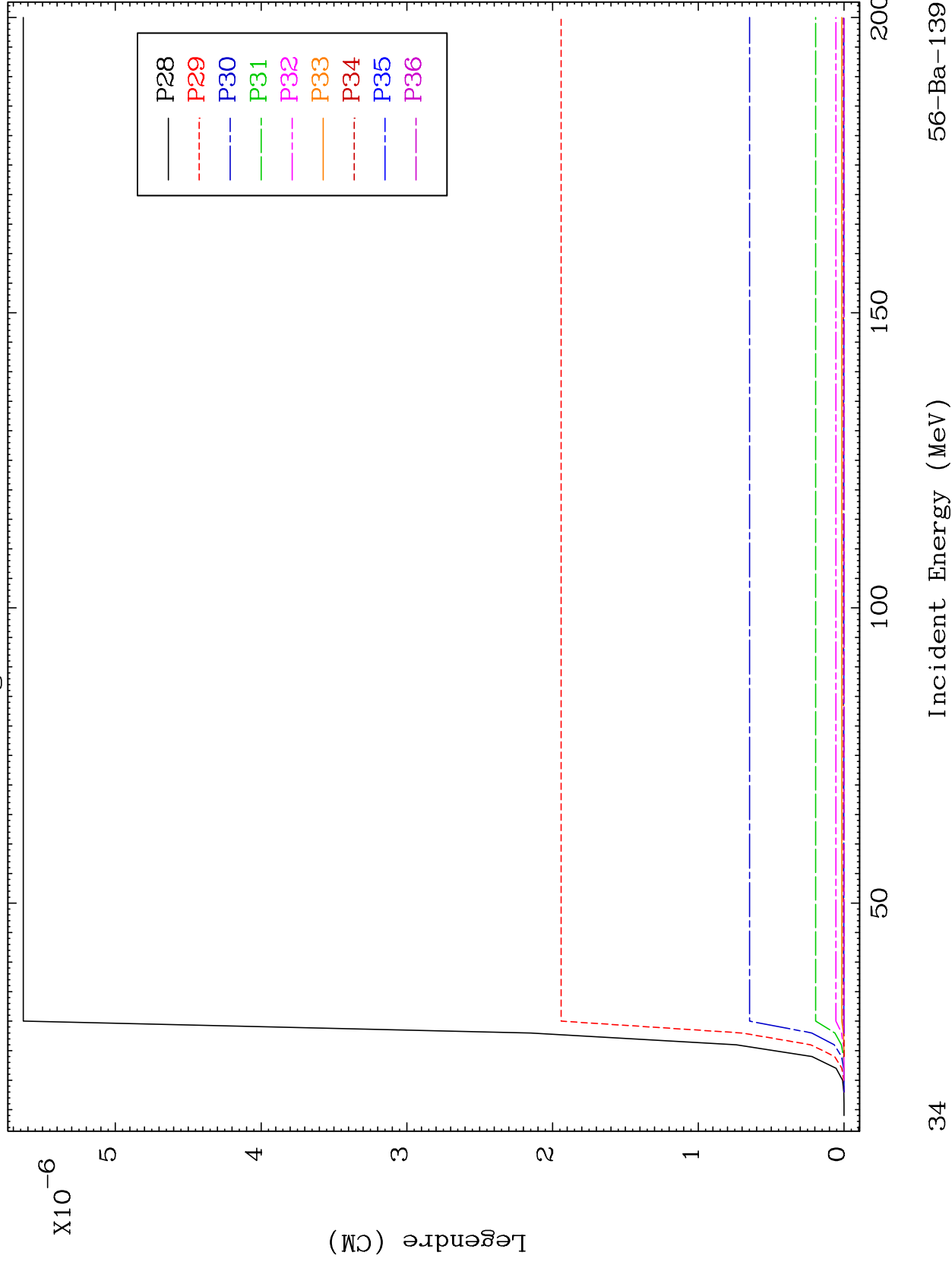
32



MAT 5652

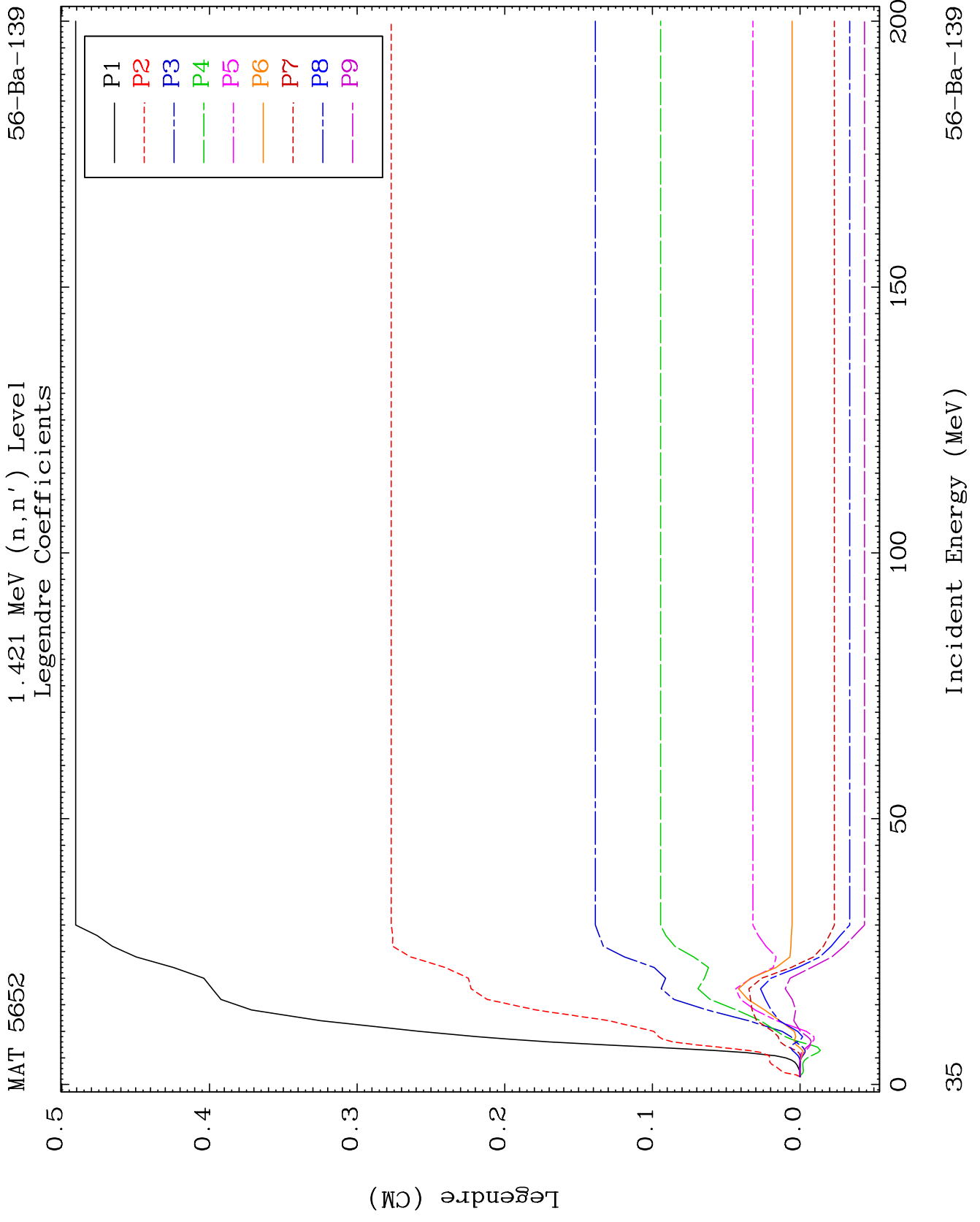
1.308 MeV (n,n') Level
Legendre Coefficients

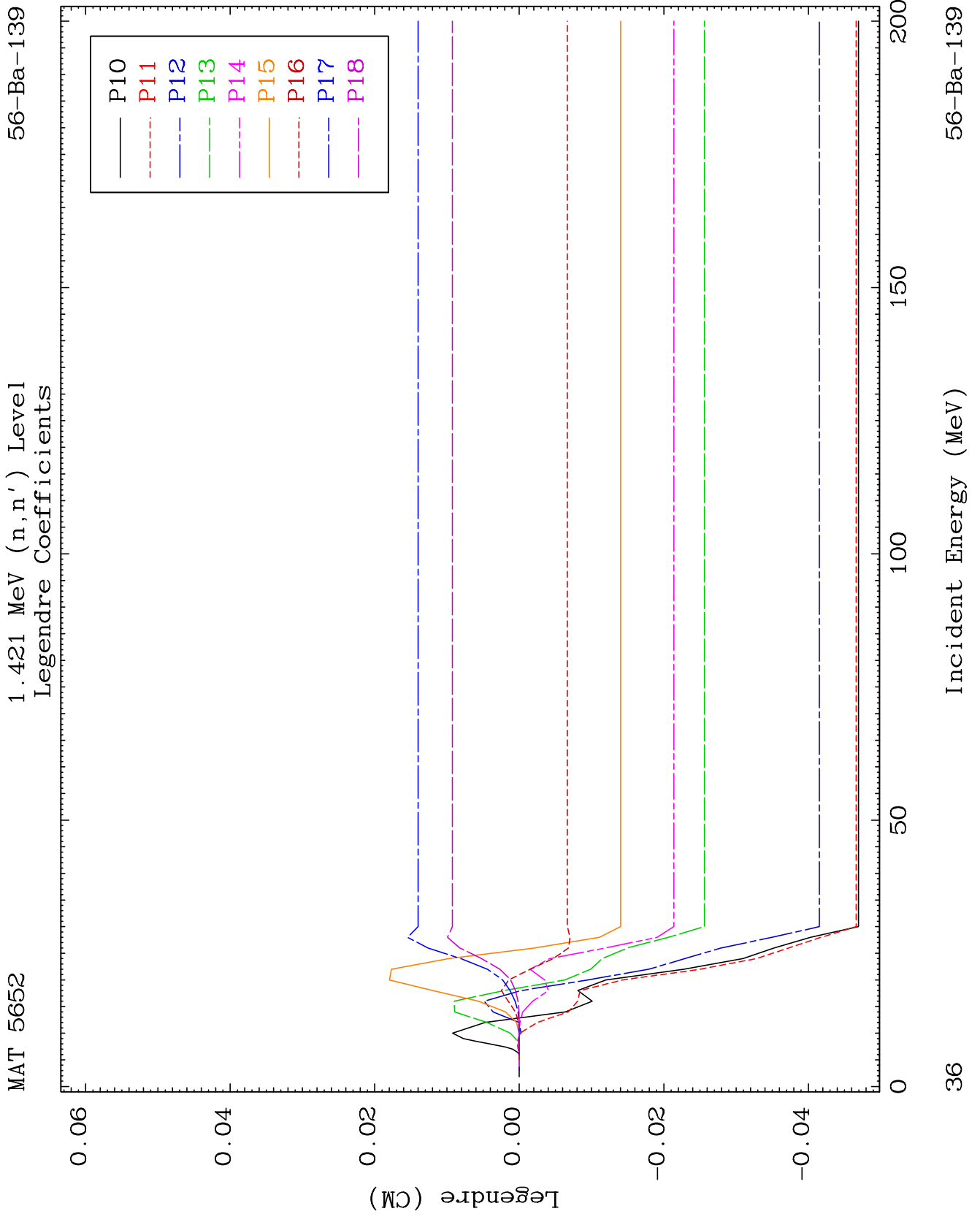
56-Ba-139

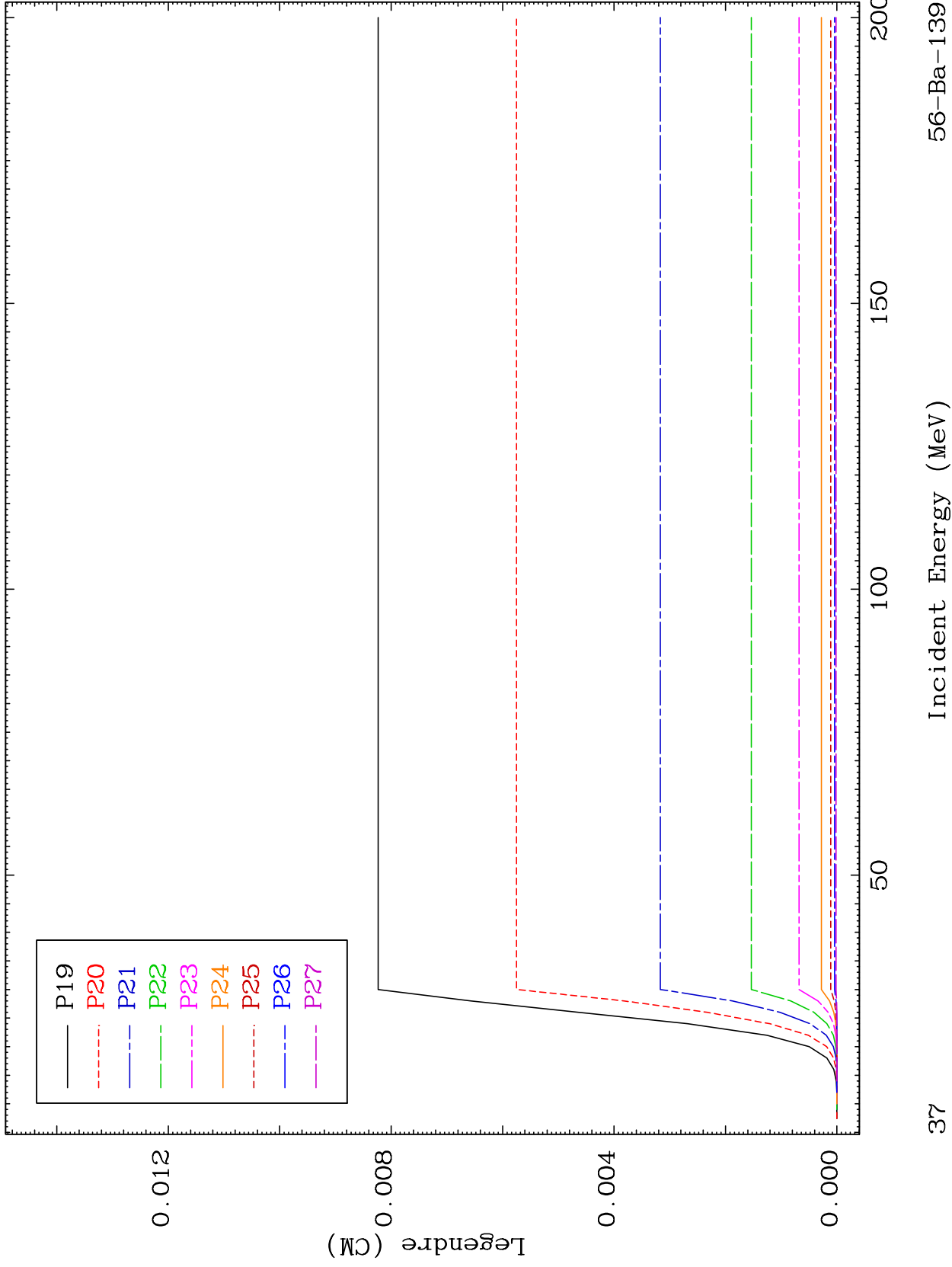


34

56-Ba-139



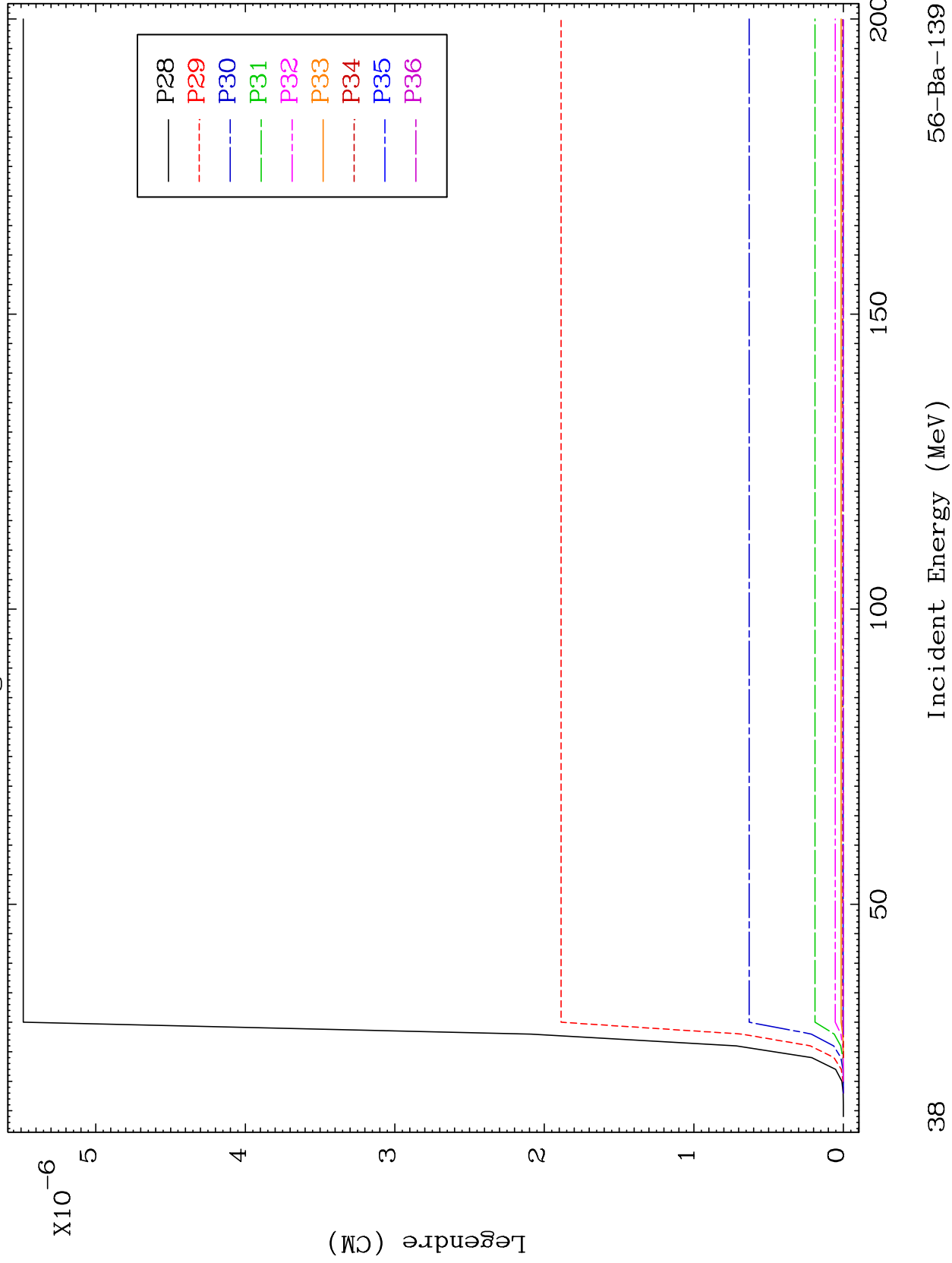




MAT 5652

1.421 MeV (n, n') Level
Legendre Coefficients

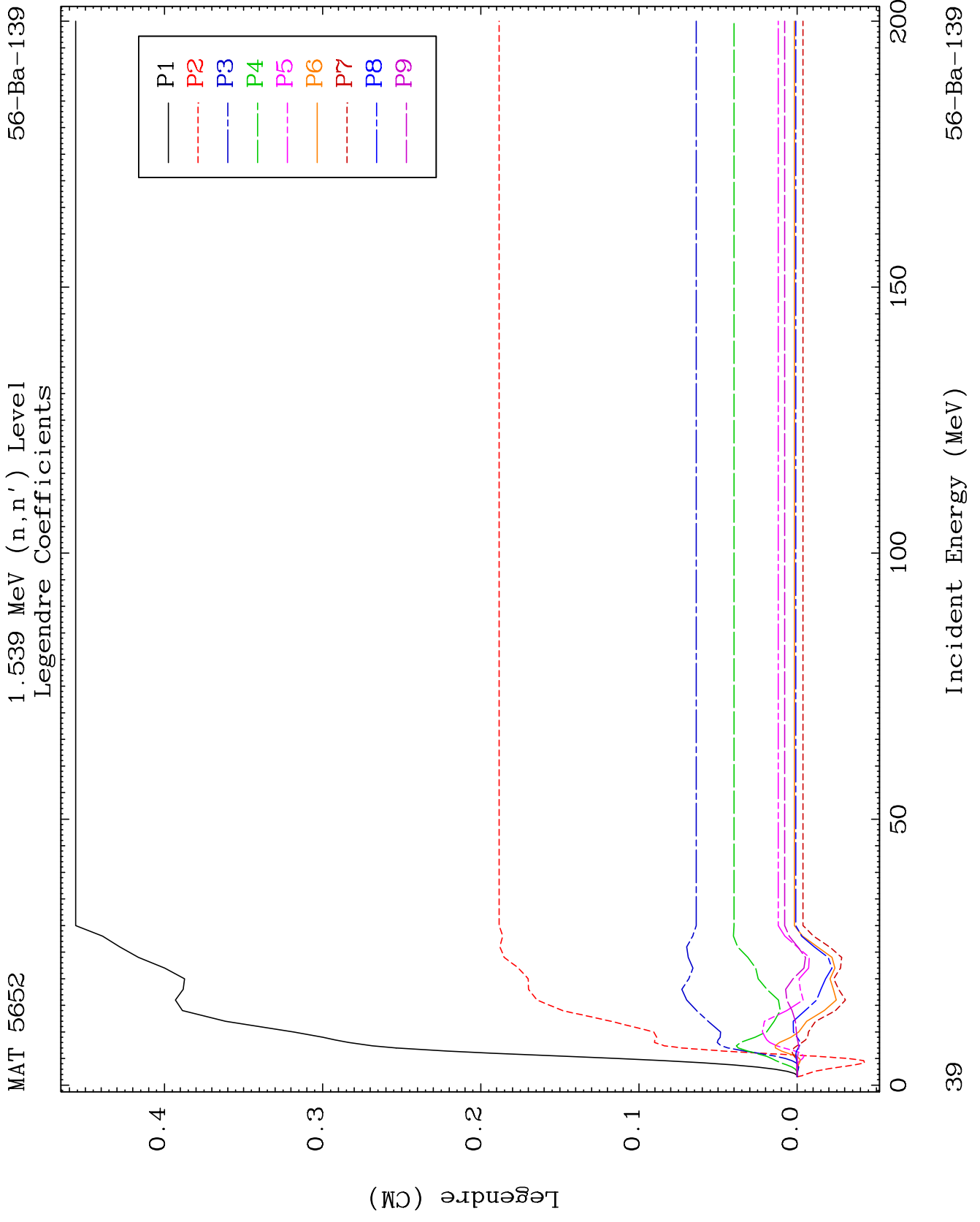
56-Ba-139



38

Incident Energy (MeV)

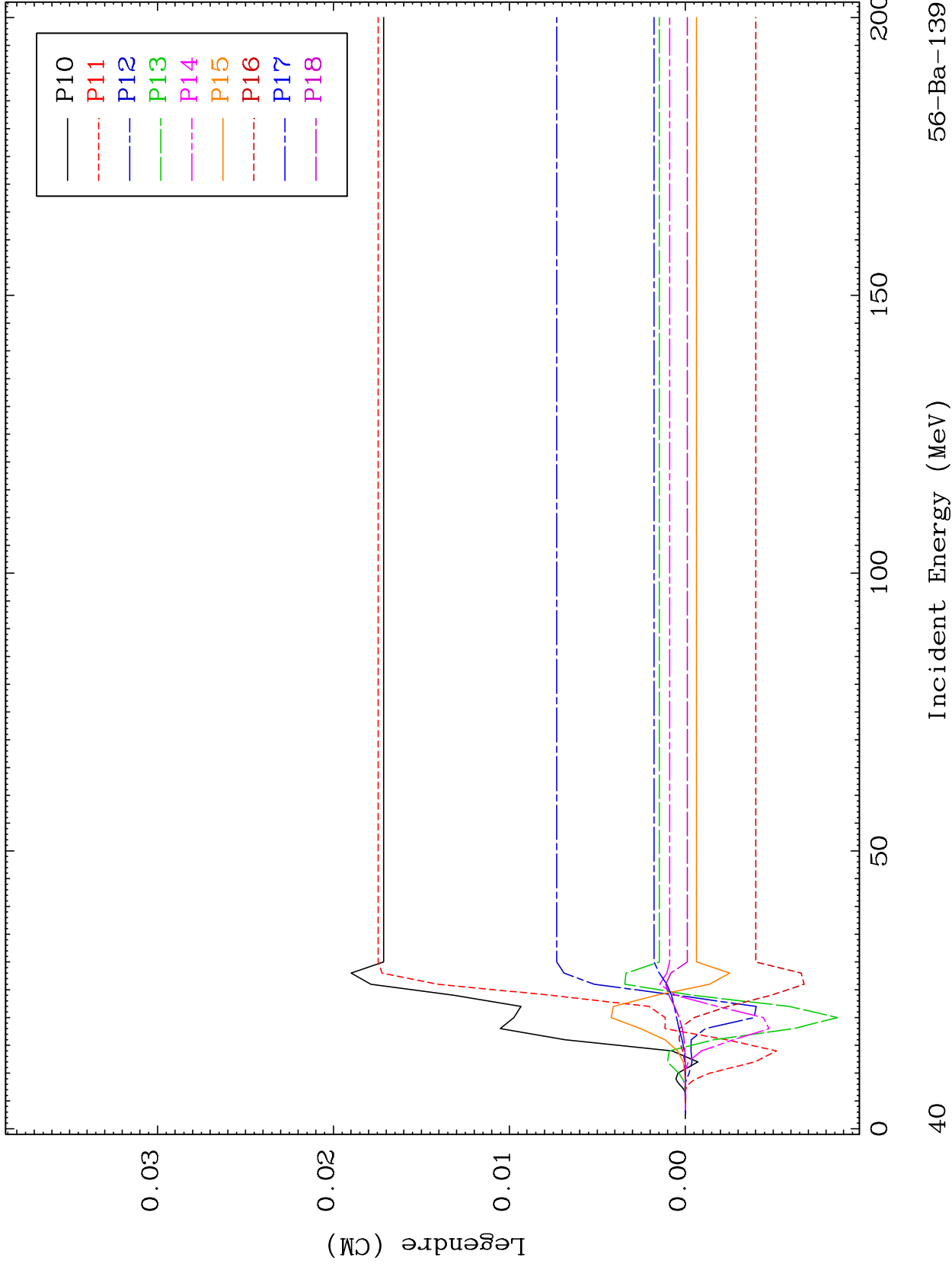
56-Ba-139



MAT 5652

1.539 MeV (n,n') Level
Legendre Coefficients

56-Ba-139

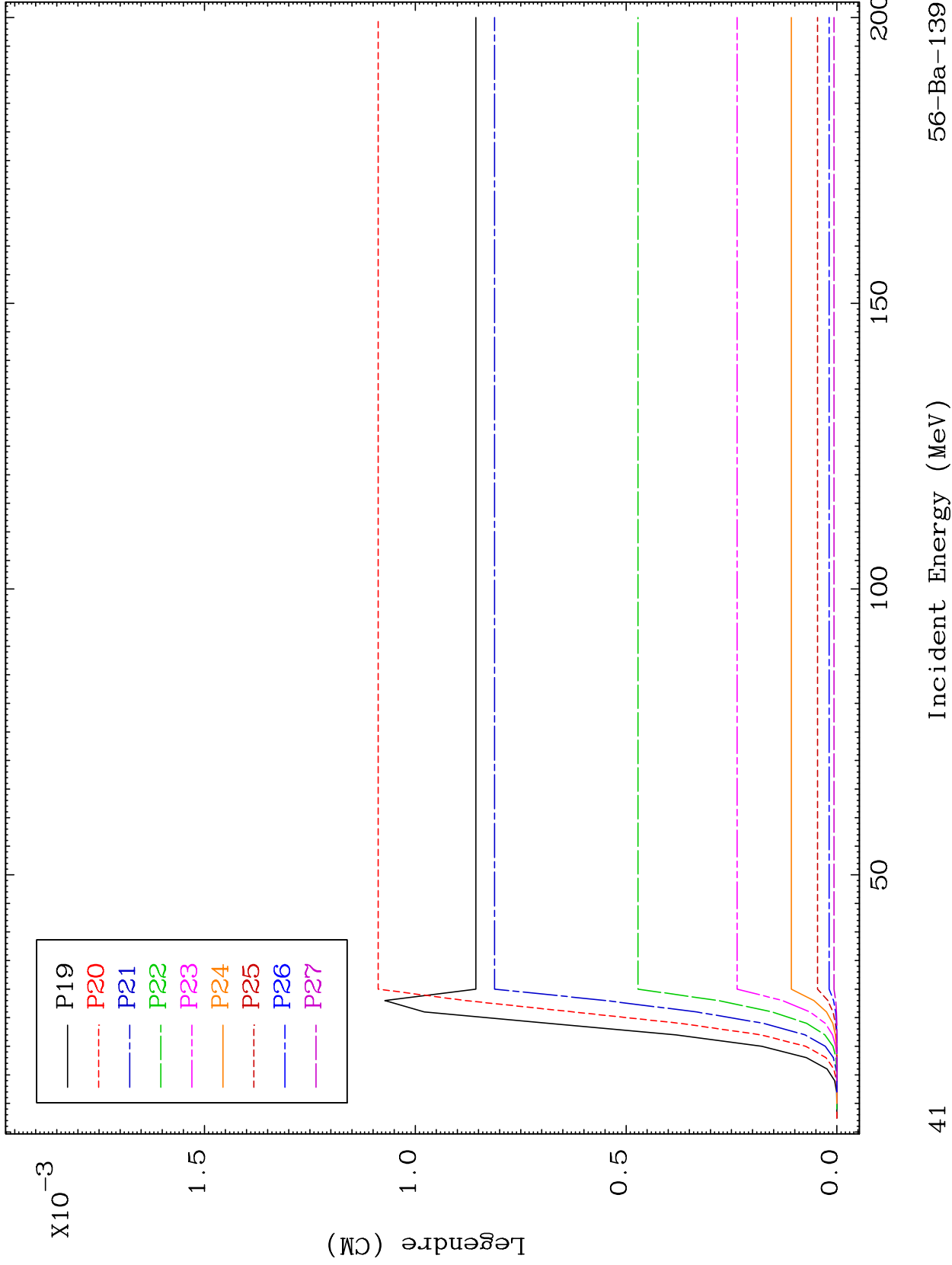


56-Ba-139

MAT 5652

1.539 MeV (n,n') Level
Legendre Coefficients

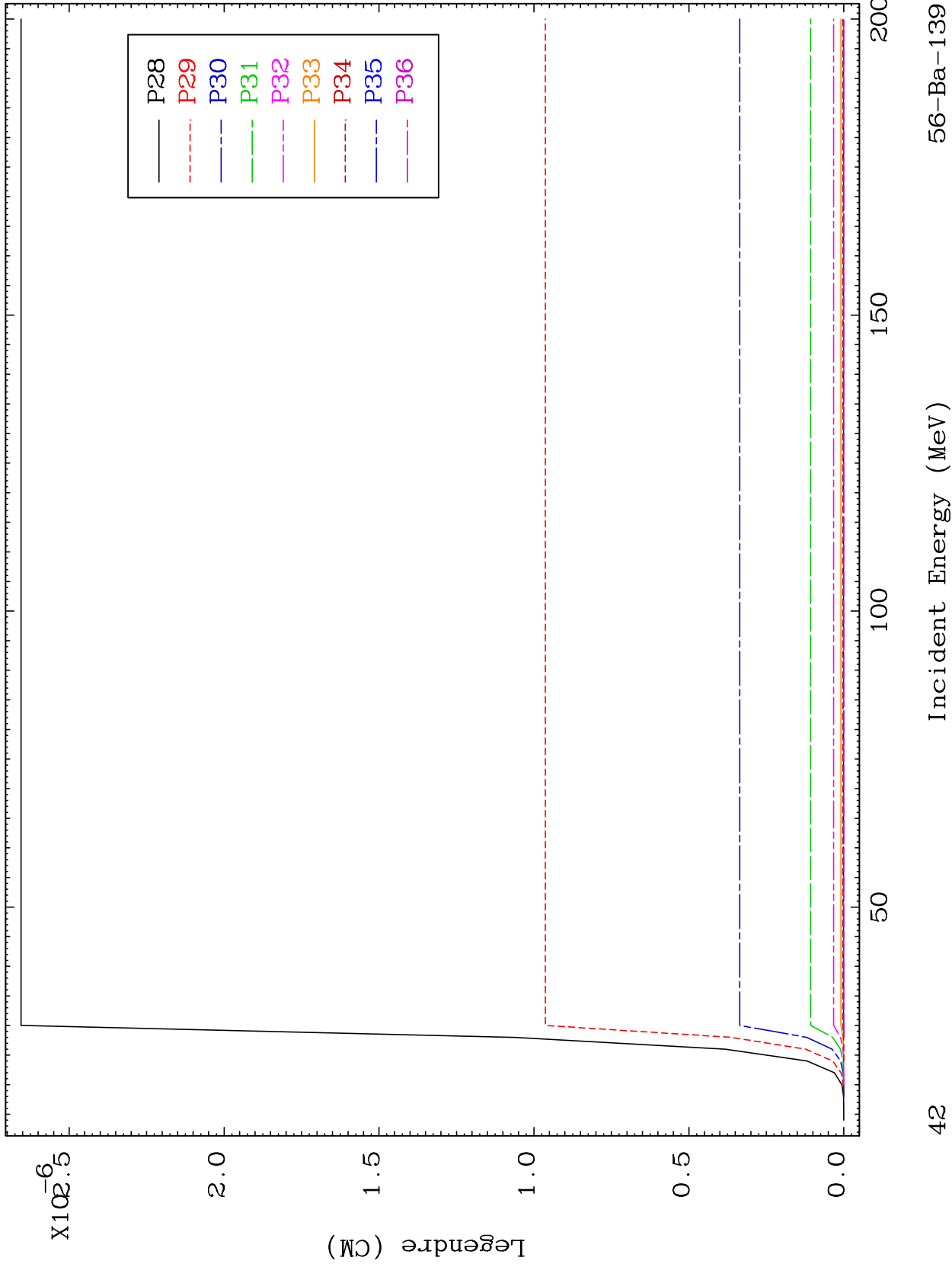
56-Ba-139



MAT 5652

1.539 MeV (n, n') Level
Legendre Coefficients

56-Ba-139



42

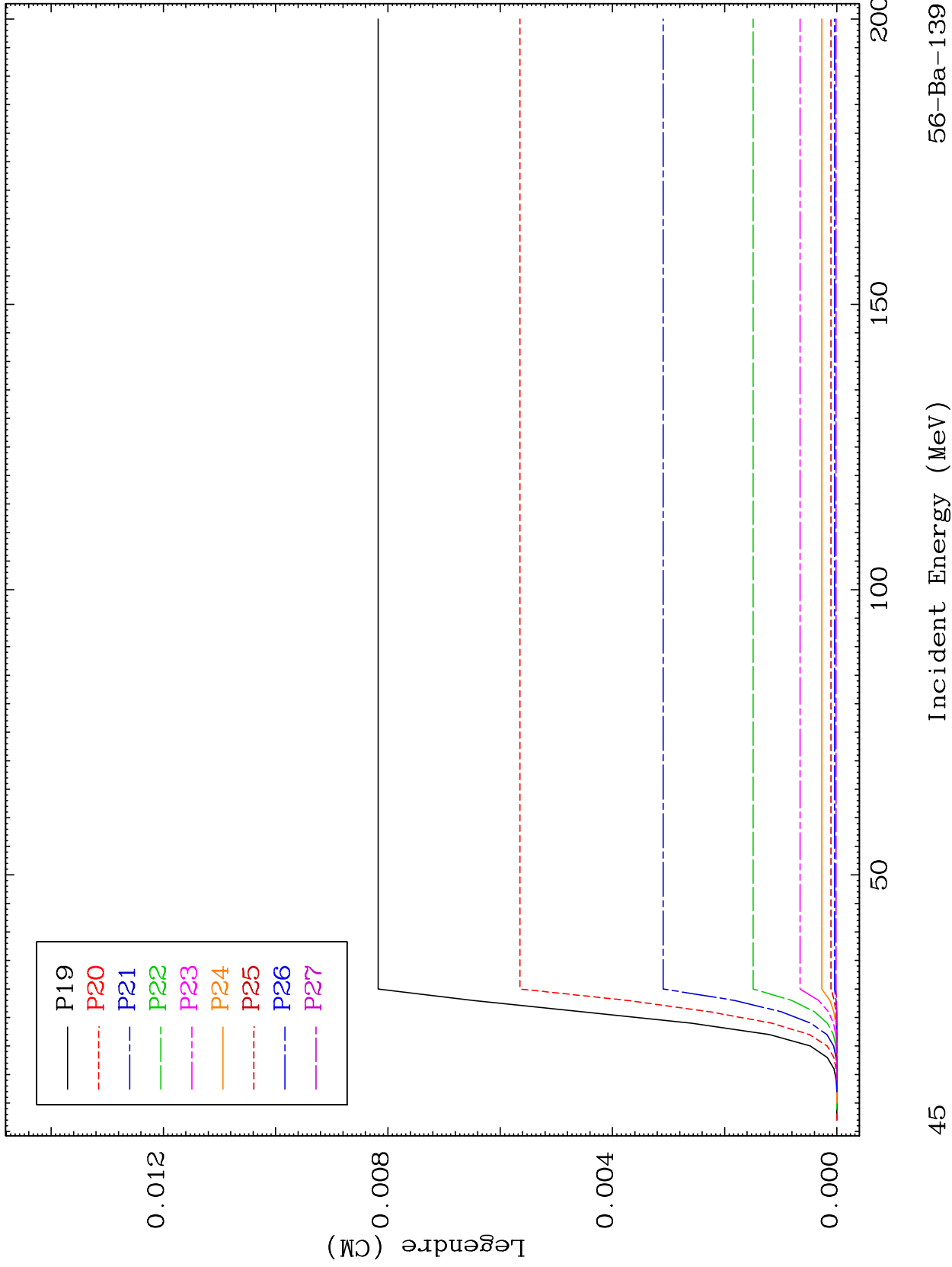
Incident Energy (MeV)

56-Ba-139

MAT 5652

1.619 MeV (n,n') Level
Legendre Coefficients

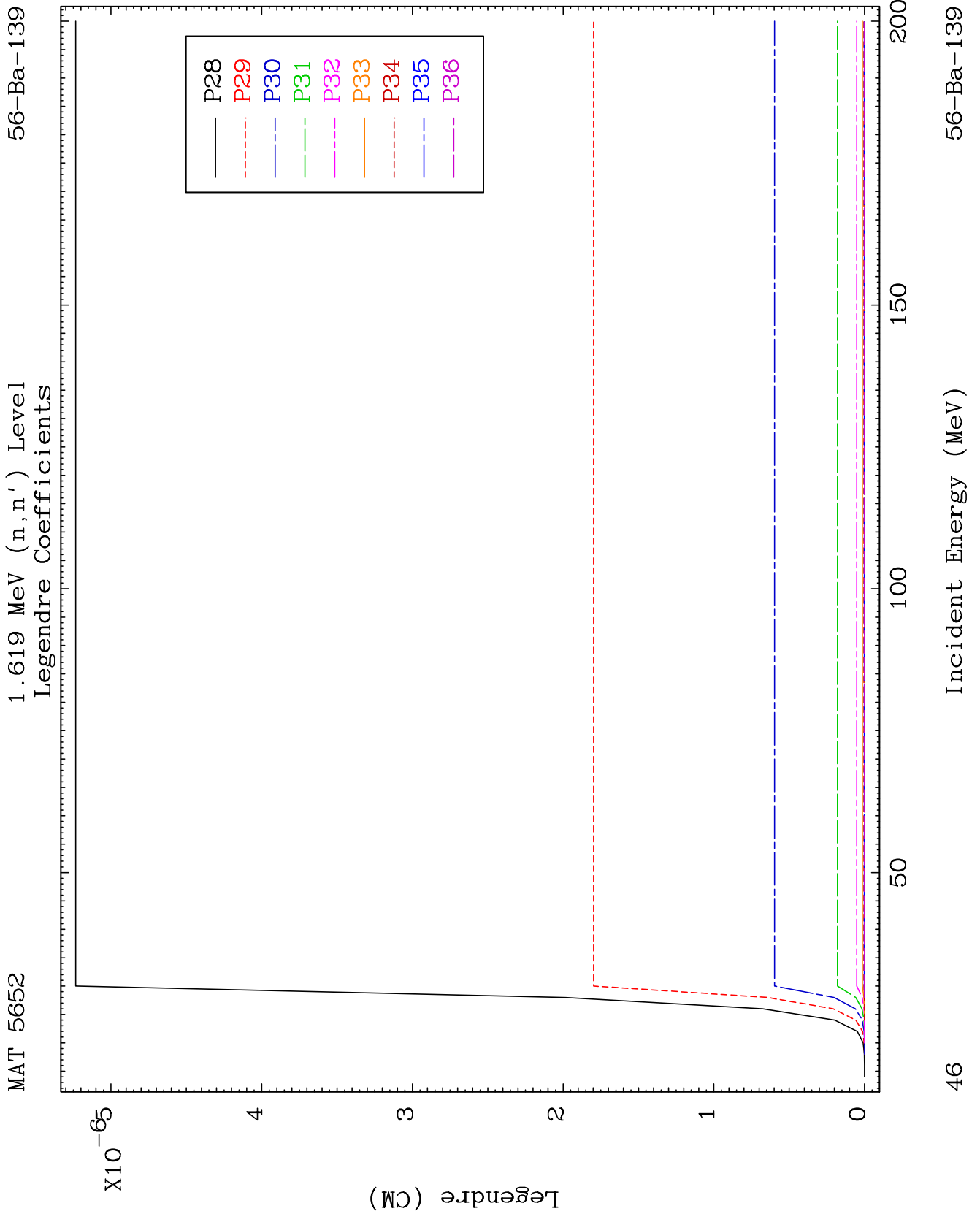
56-Ba-139



56-Ba-139

Incident Energy (MeV)

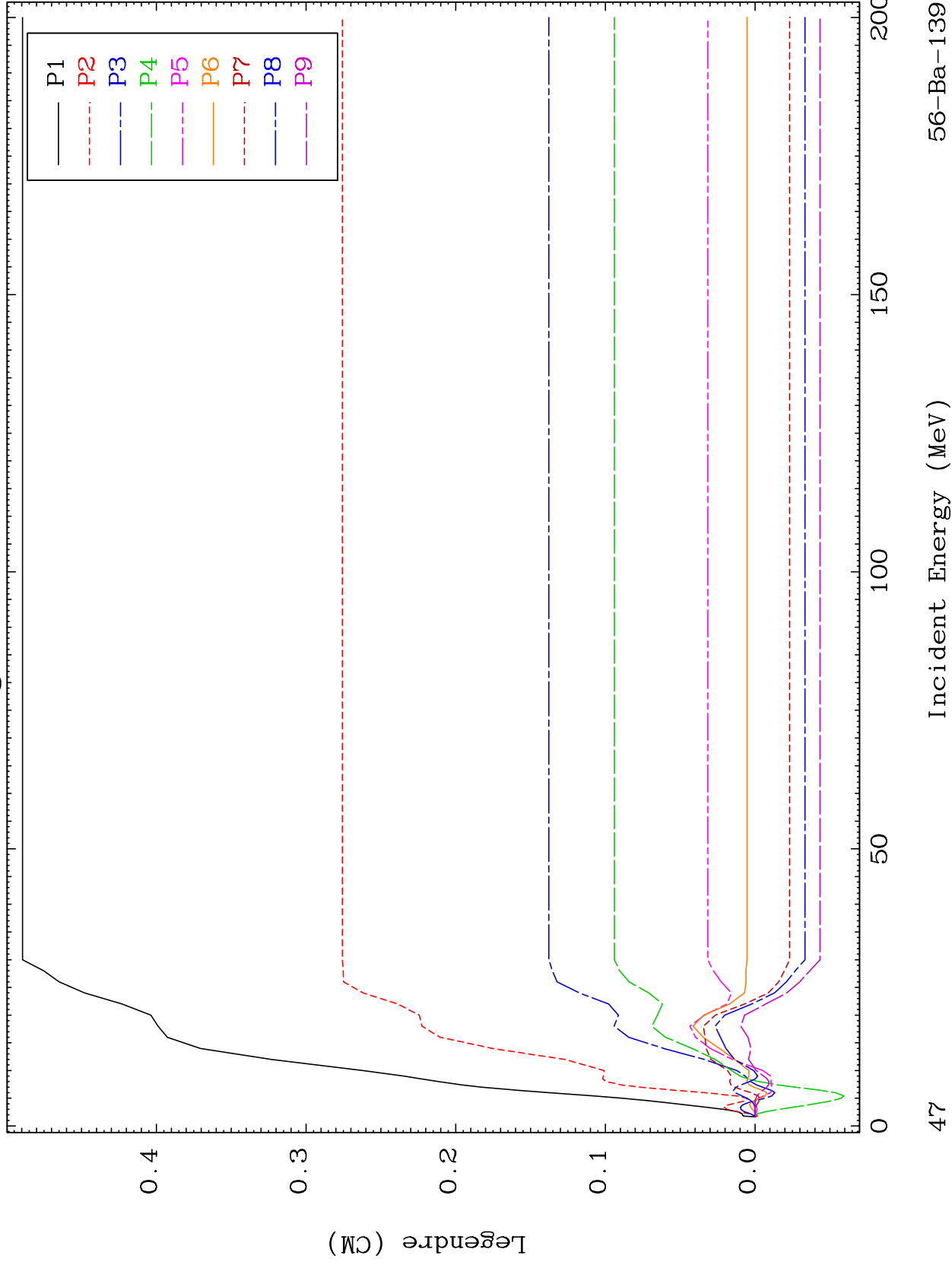
45



MAT 5652

1.621 MeV (n,n') Level
Legendre Coefficients

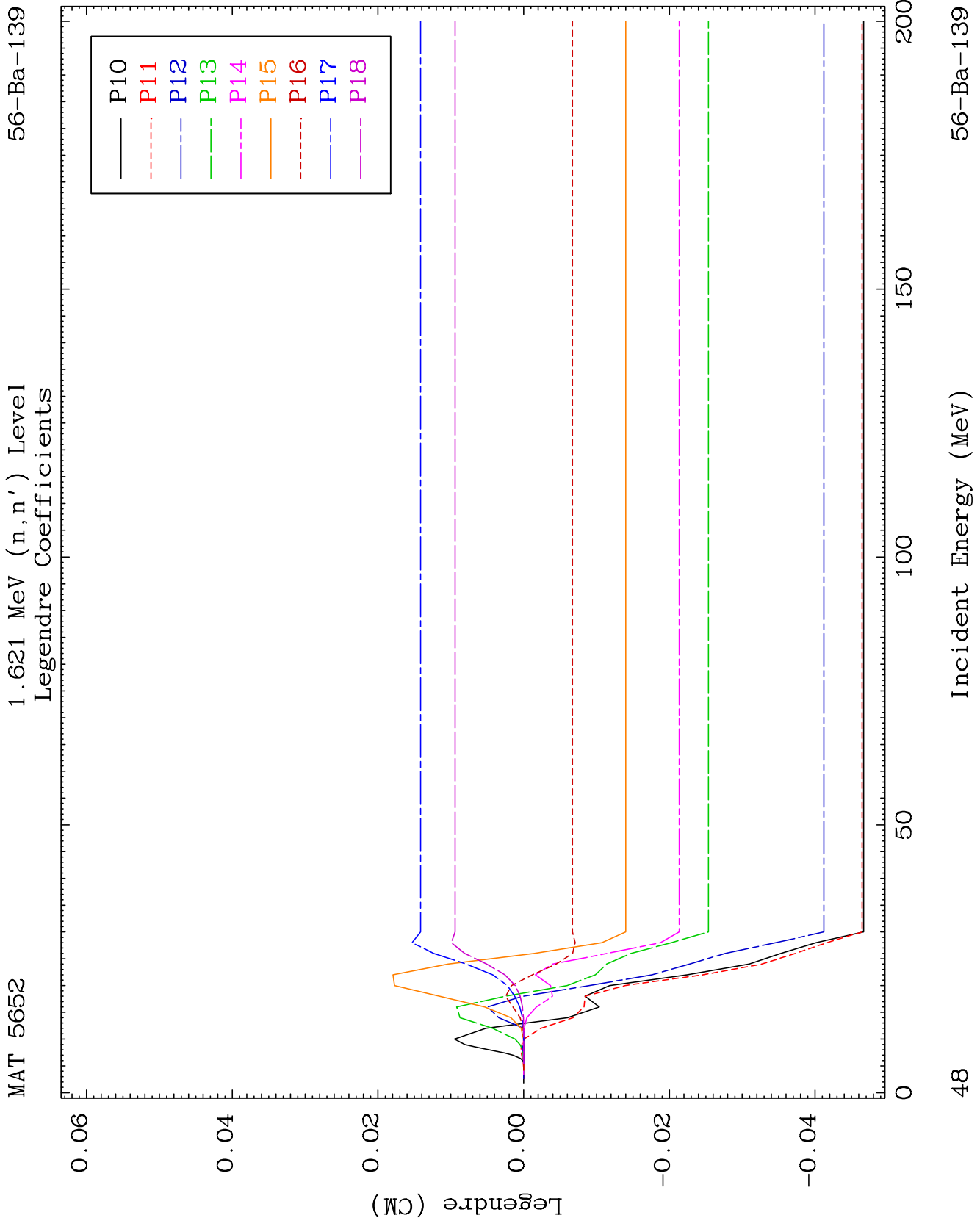
56-Ba-139



47

Incident Energy (MeV)

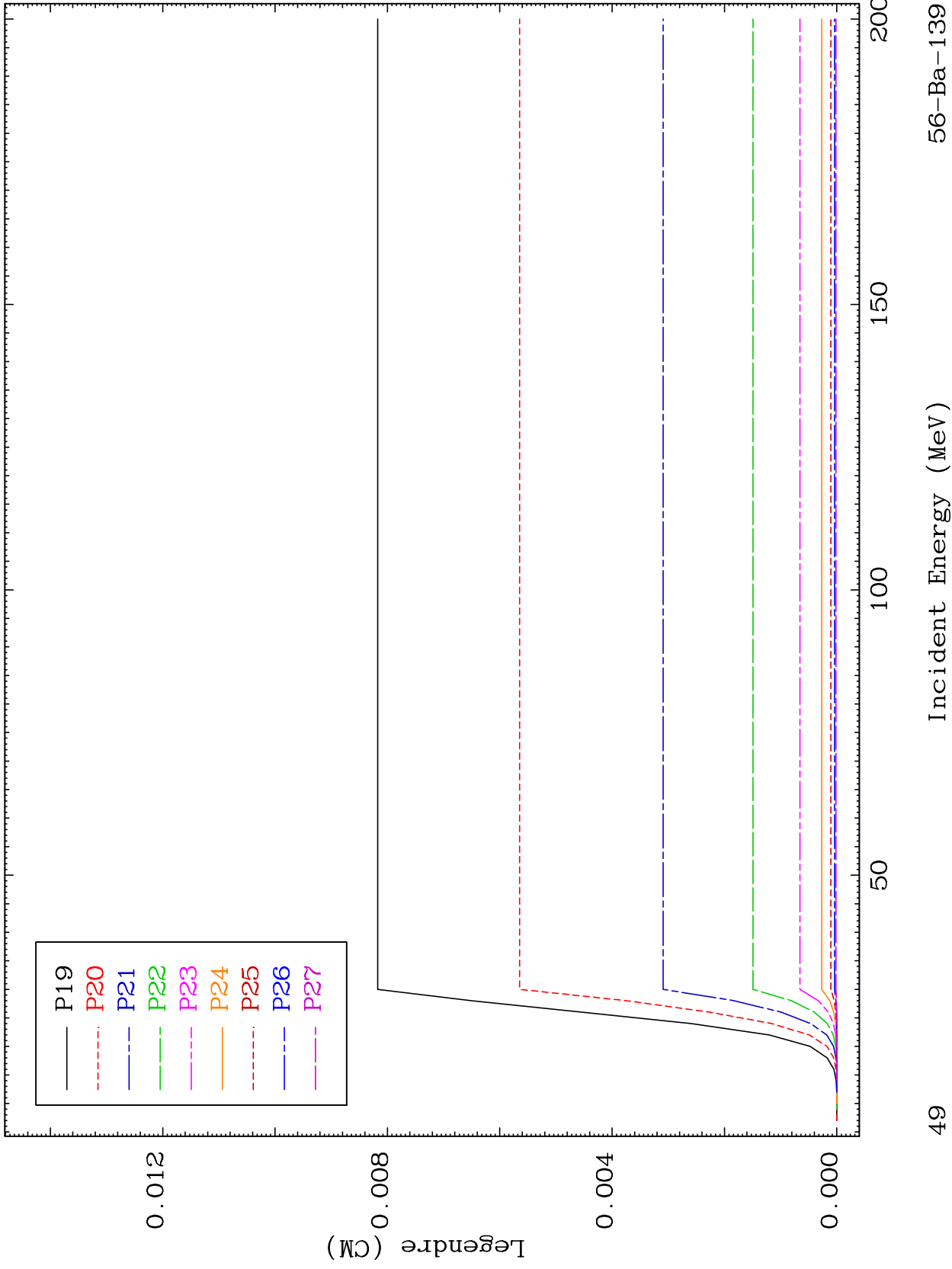
56-Ba-139



MAT 5652

1.621 MeV (n,n') Level
Legendre Coefficients

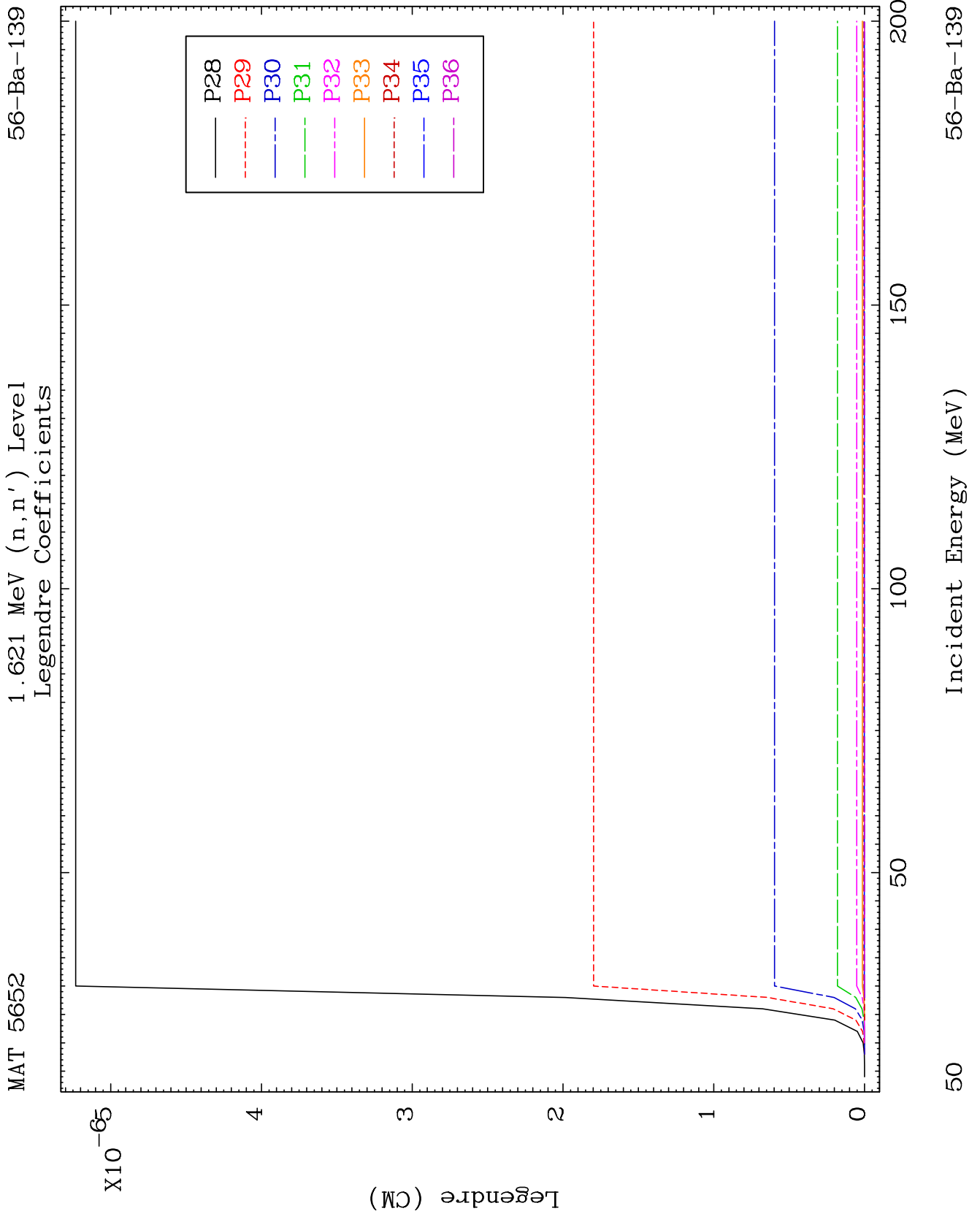
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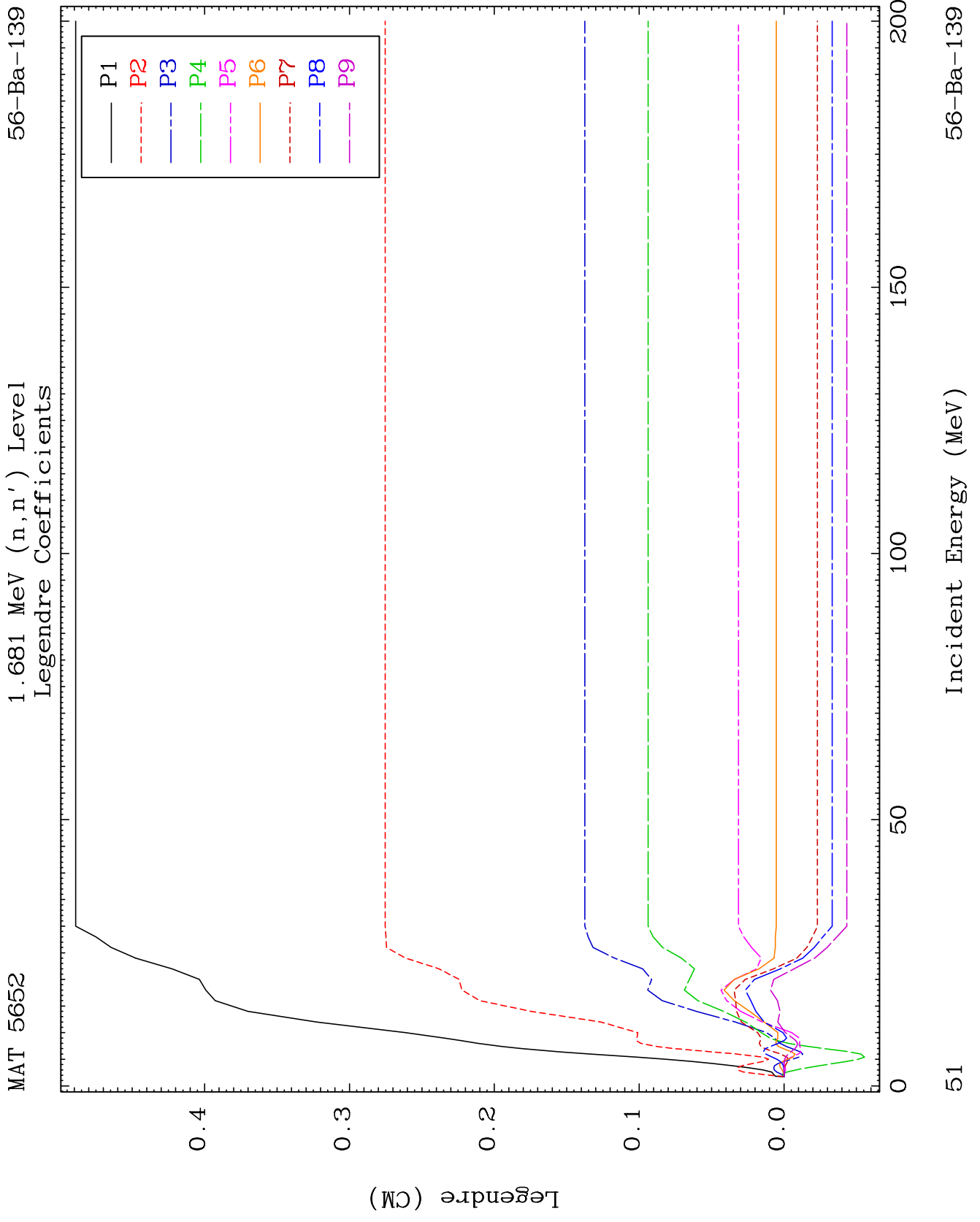


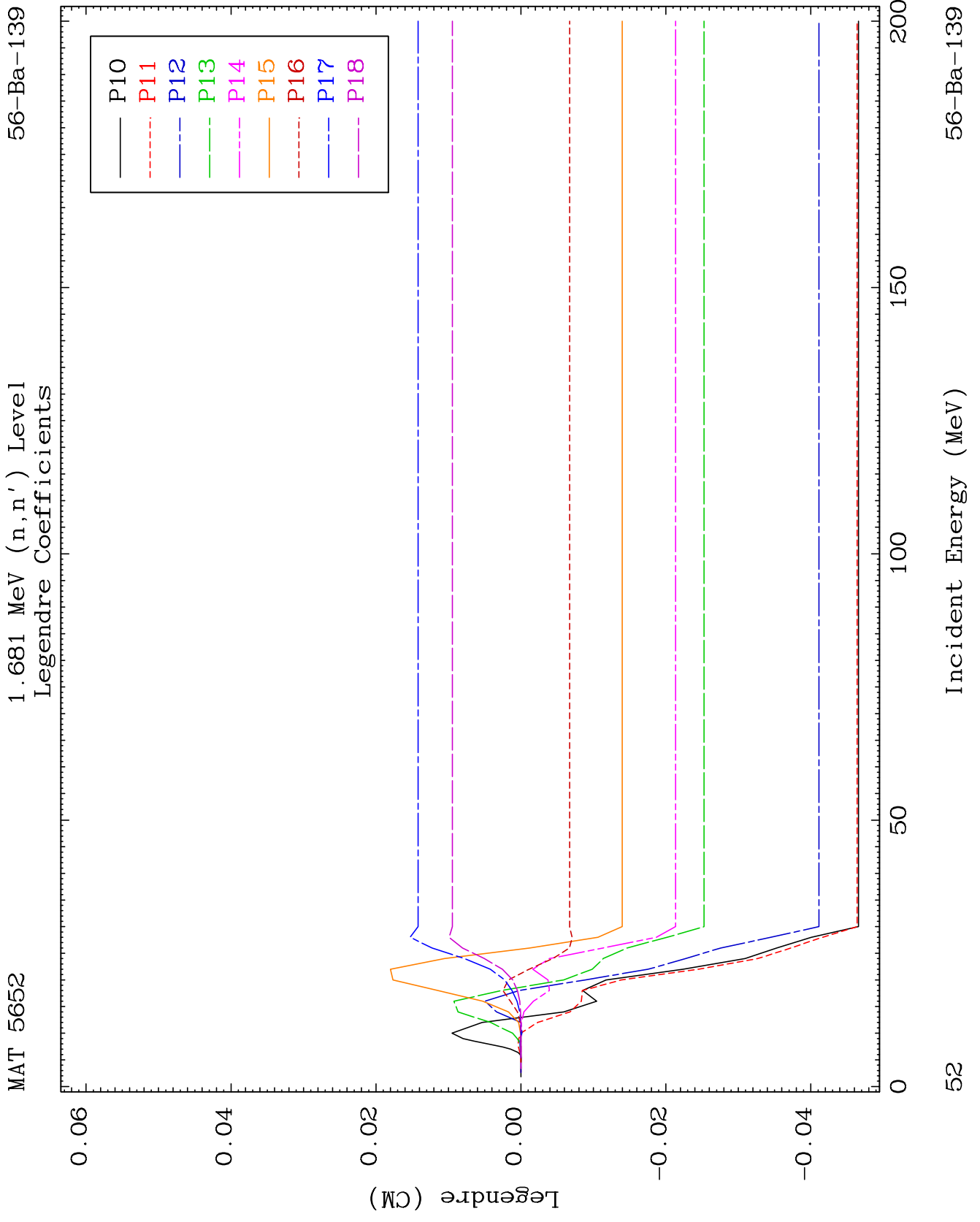
49

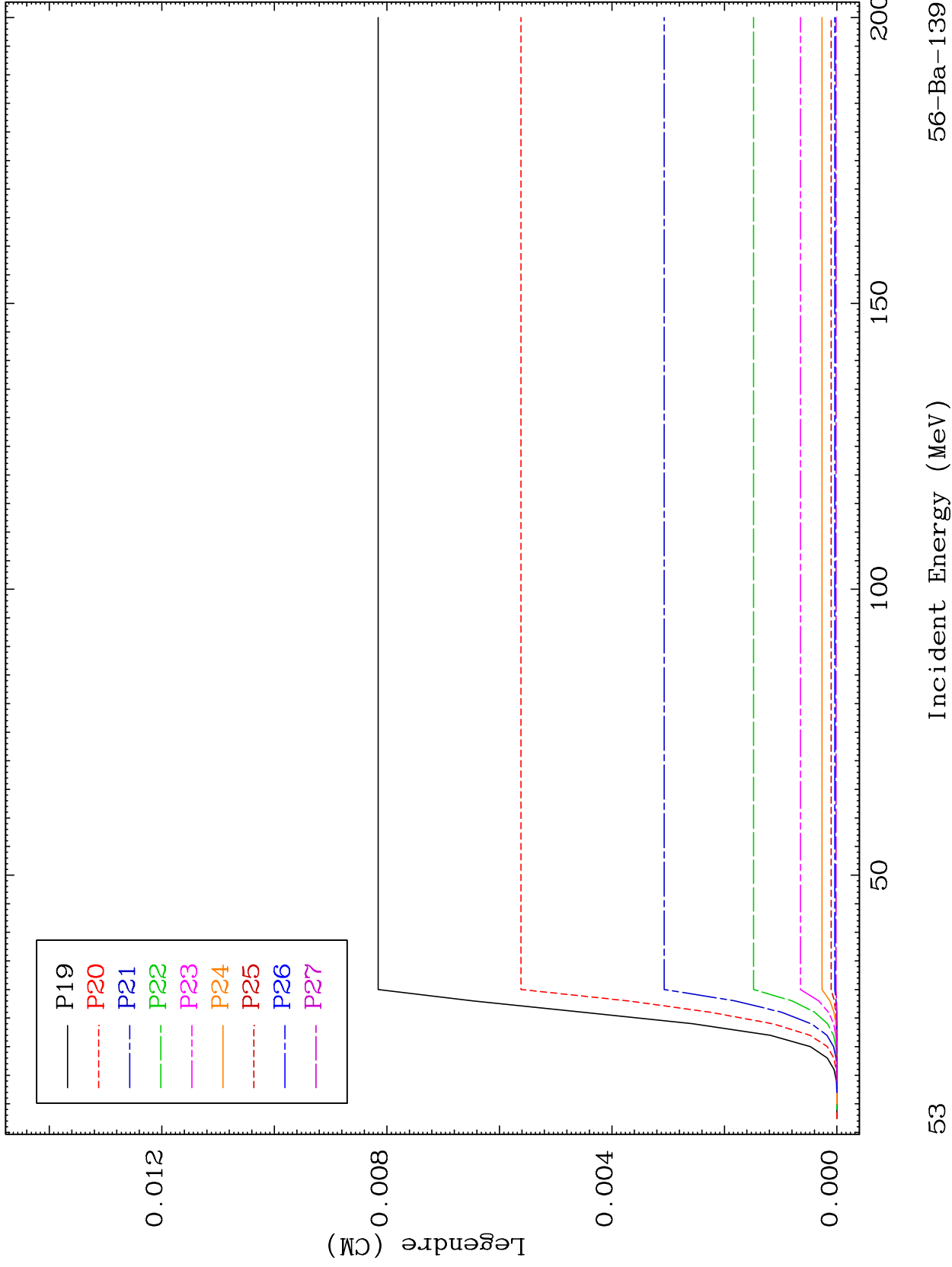
Incident Energy (MeV)

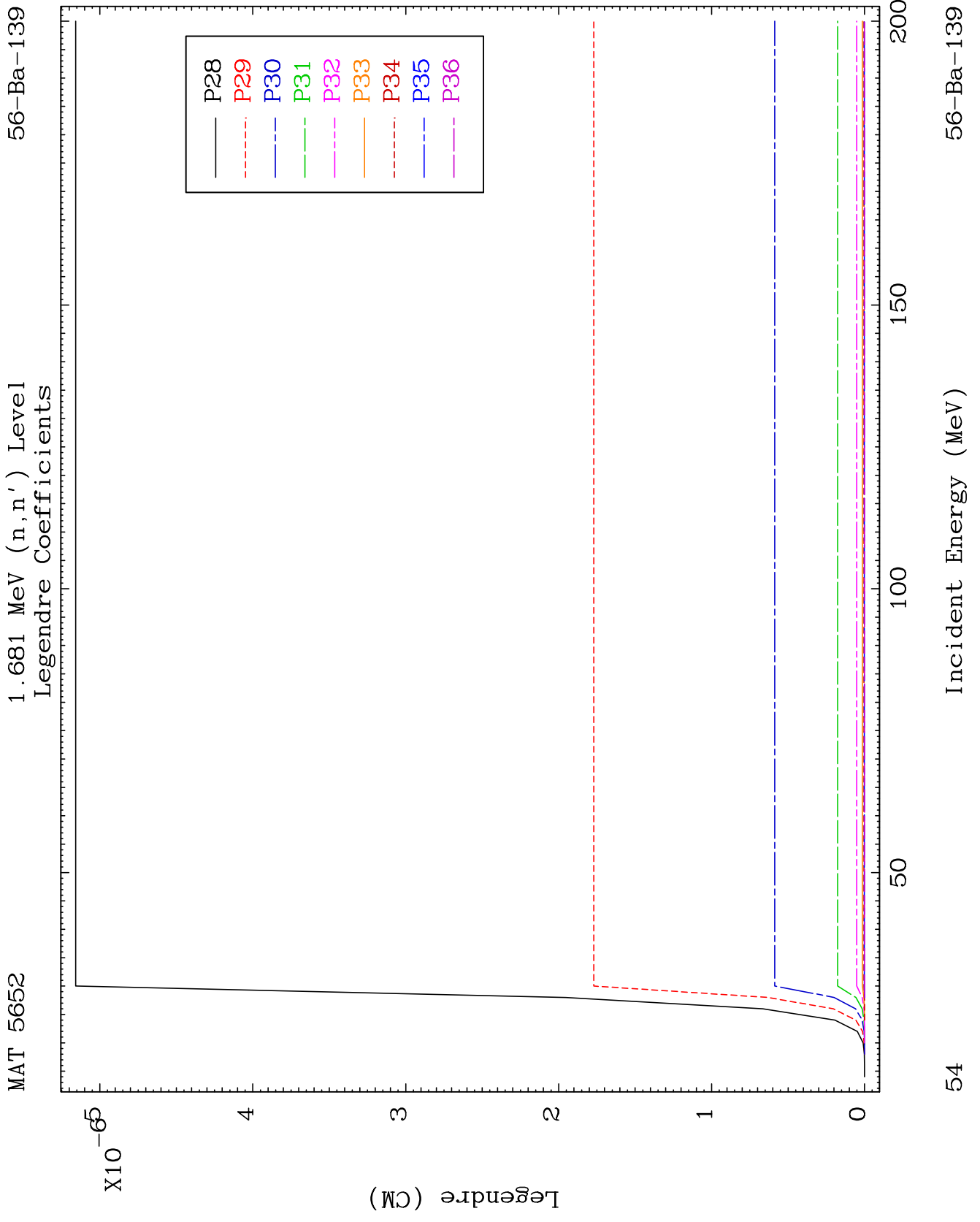
56-Ba-139

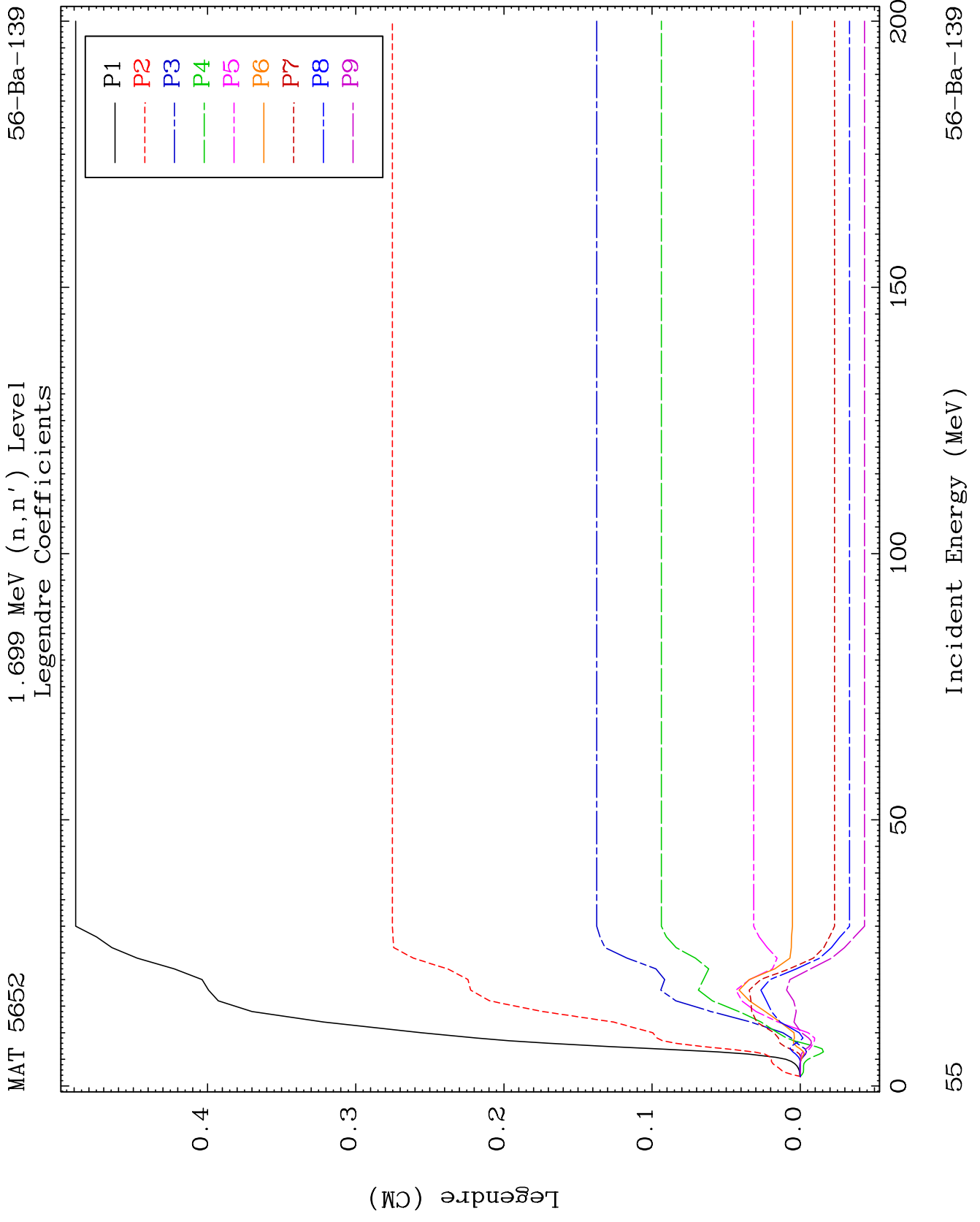


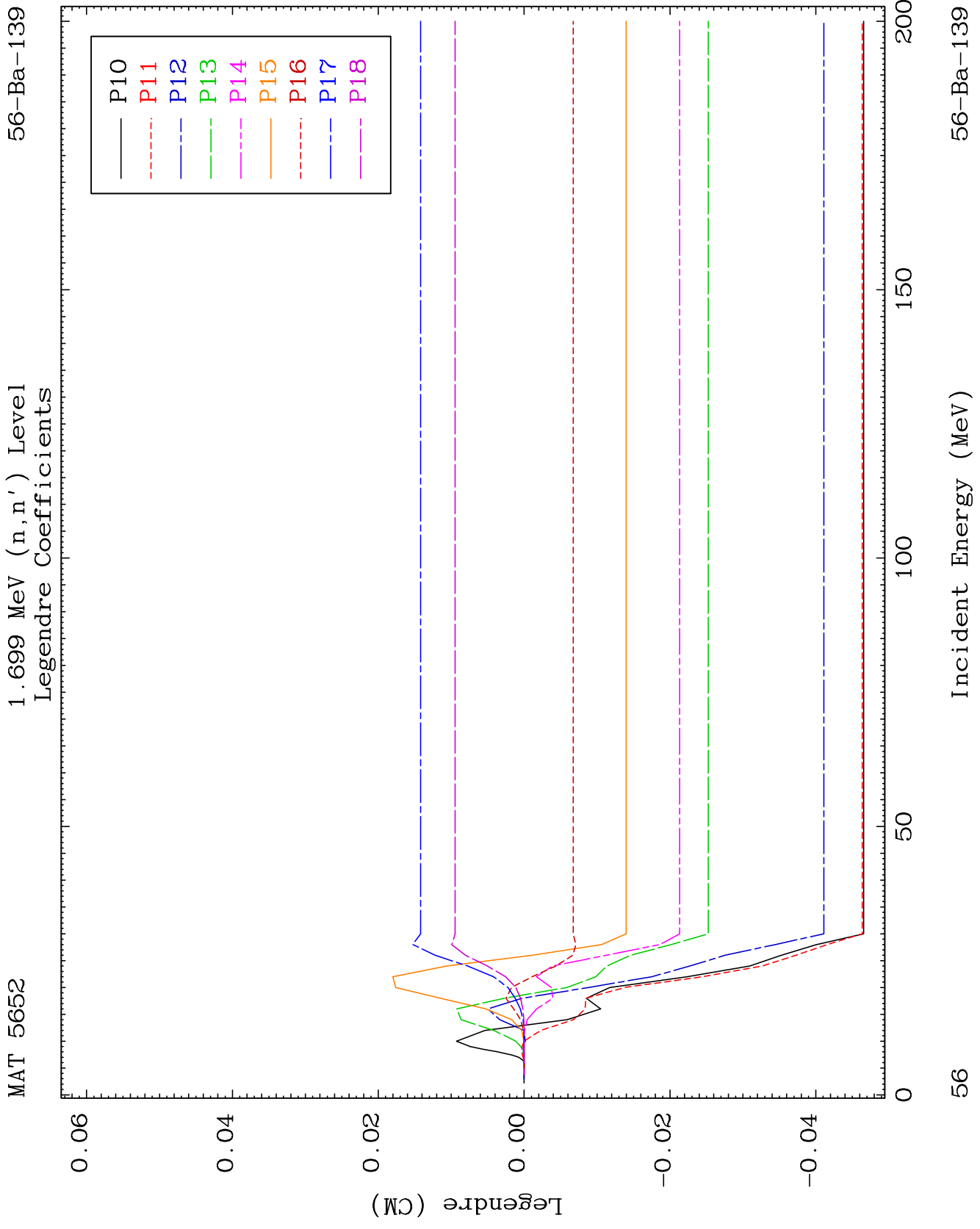








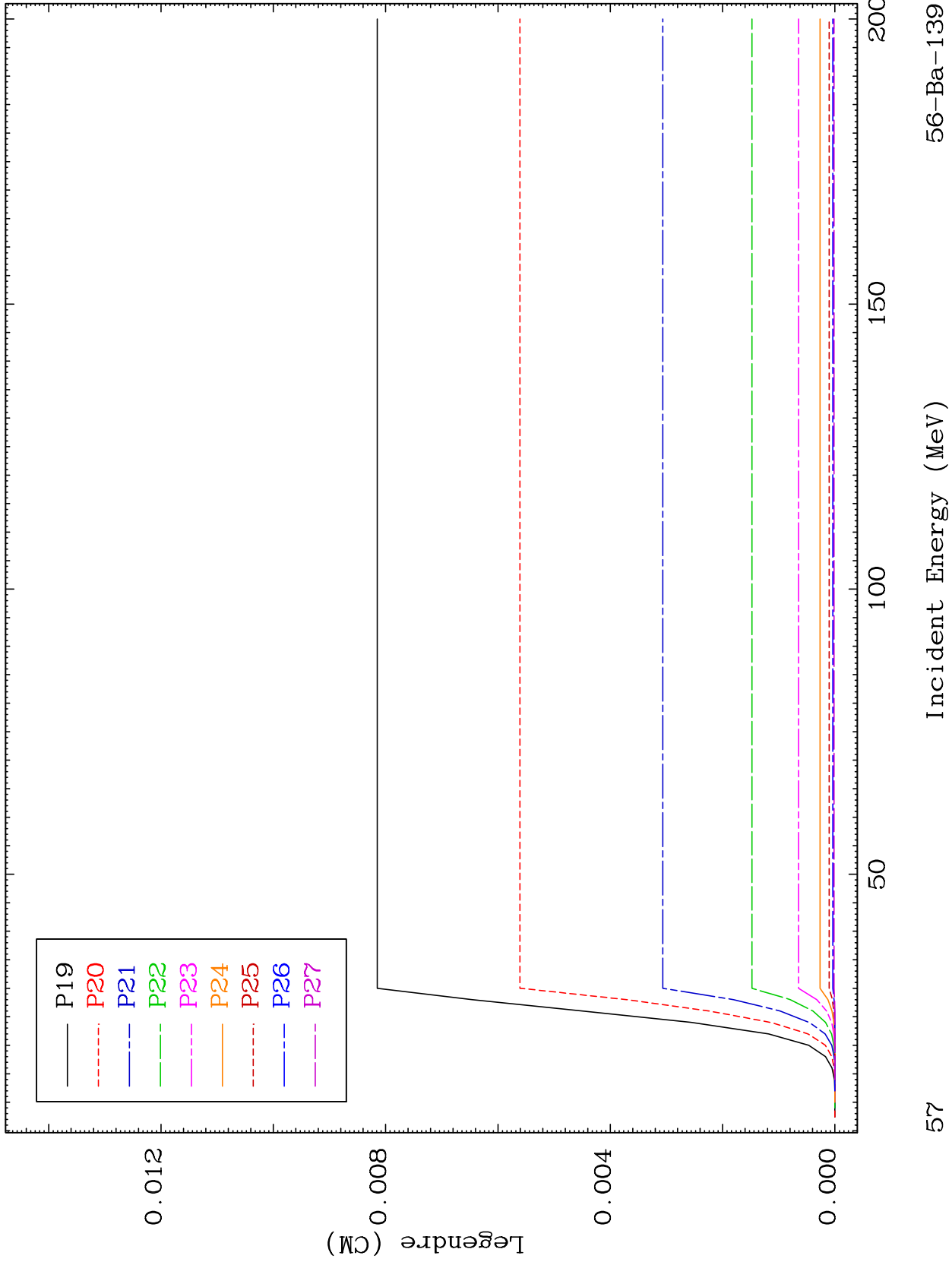




MAT 5652

1.699 MeV (n,n') Level
Legendre Coefficients

56-Ba-139



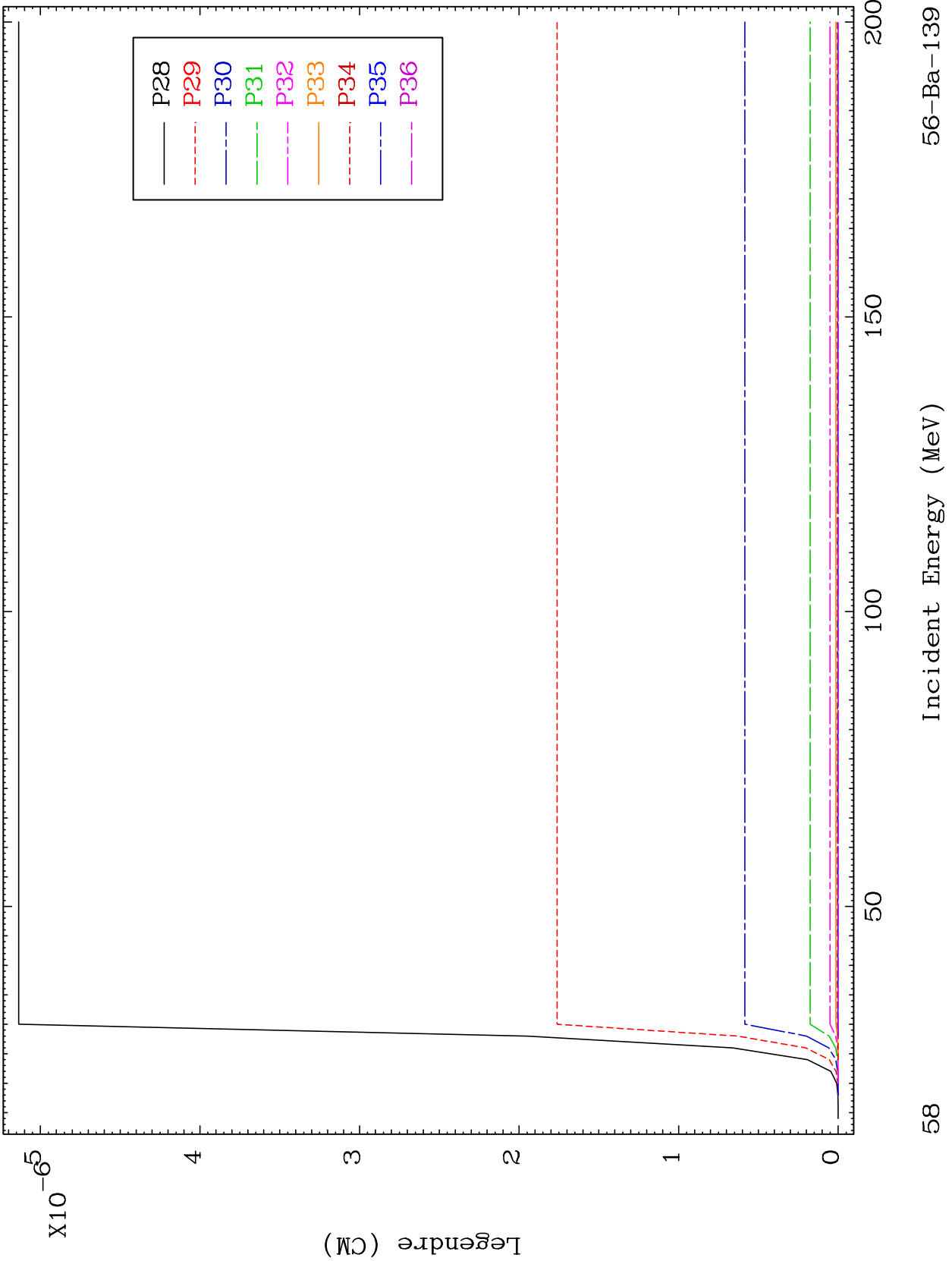
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56-Ba-139

MAT 5652

1.699 MeV (n,n') Level
Legendre Coefficients

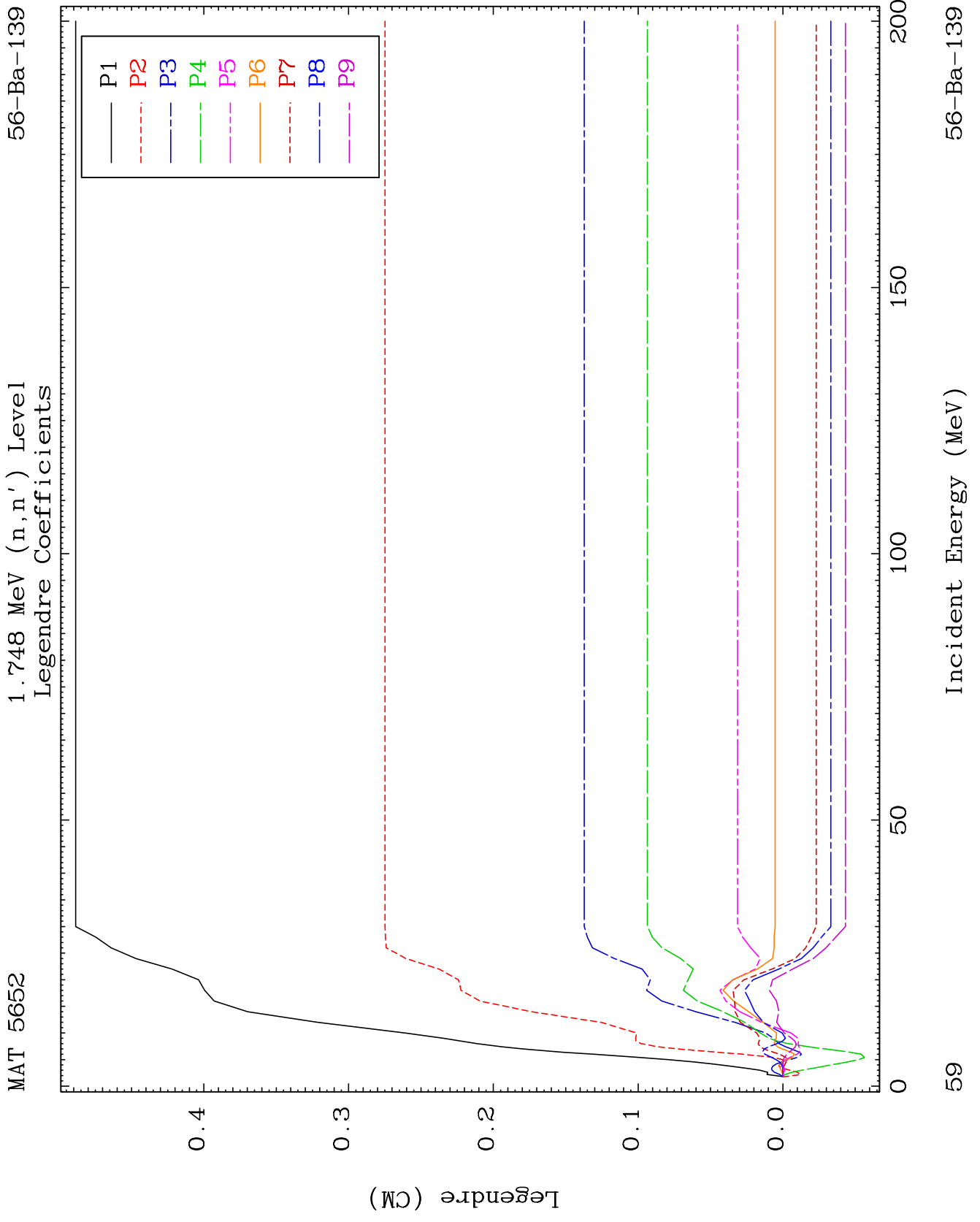
56-Ba-139



58

Incident Energy (MeV)

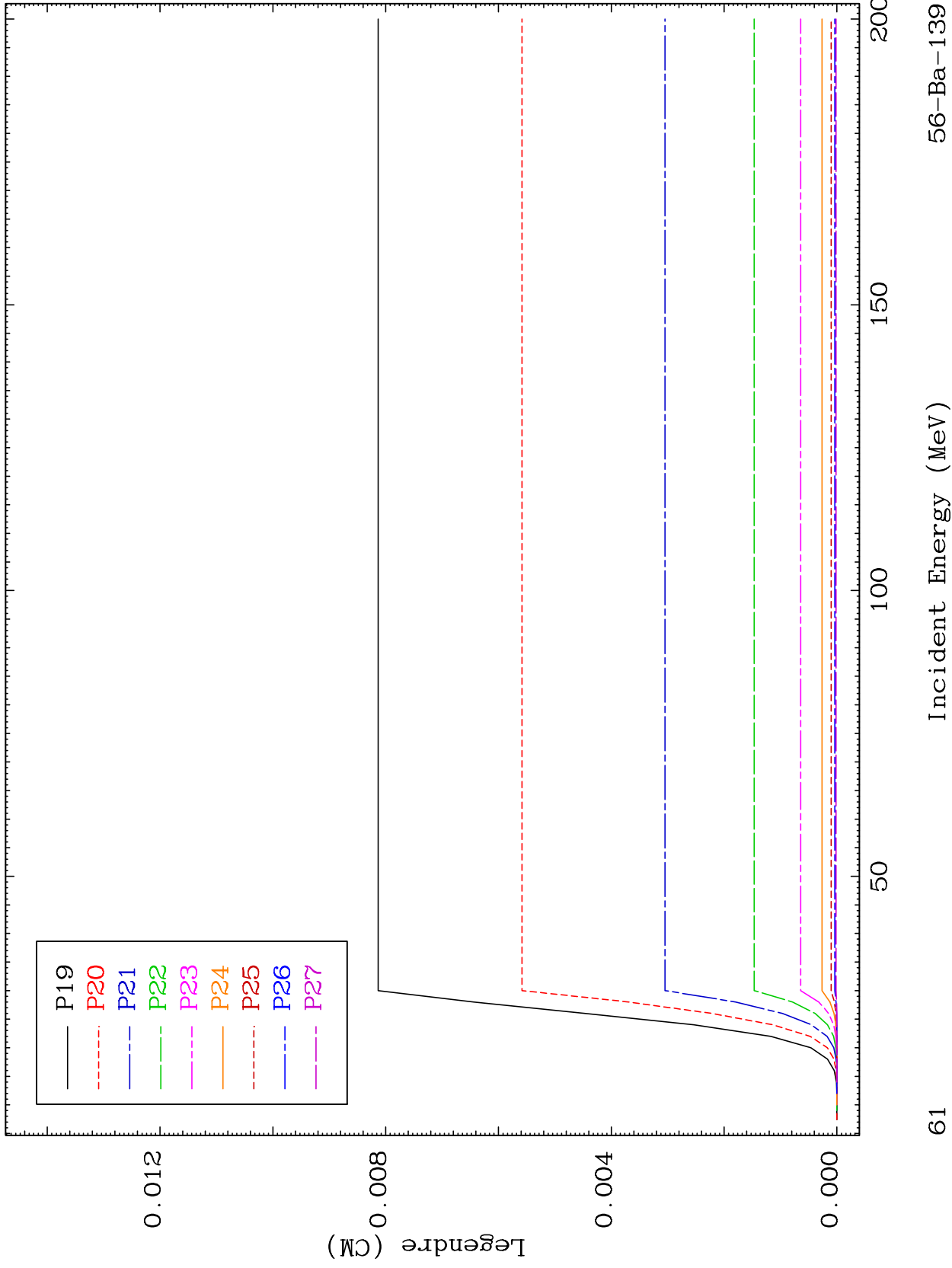
56-Ba-139



MAT 5652

1.748 MeV (n,n') Level
Legendre Coefficients

56-Ba-139



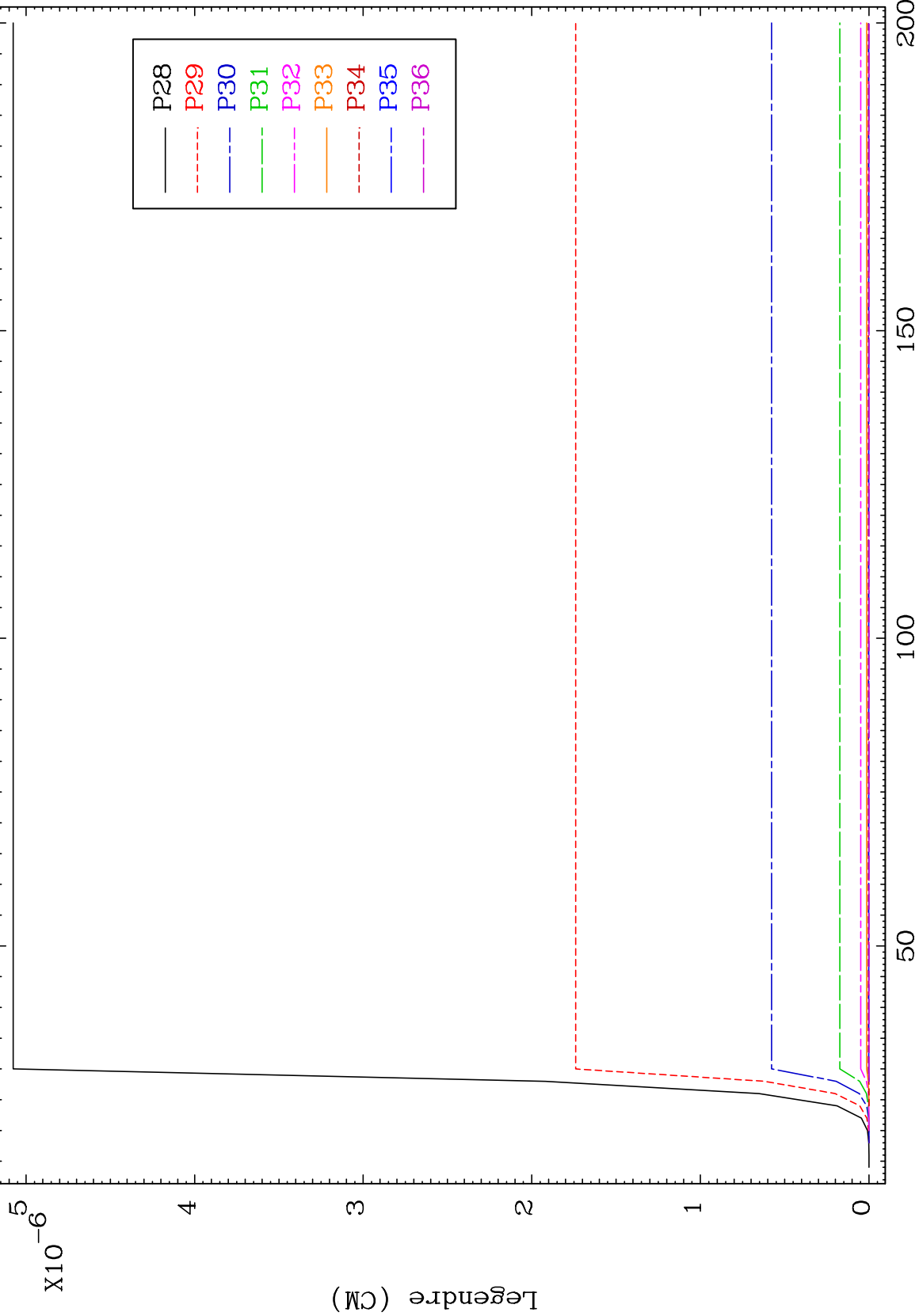
61

56-Ba-139

MAT 5652

1.748 MeV (n, n') Level
Legendre Coefficients

56-Ba-139



62

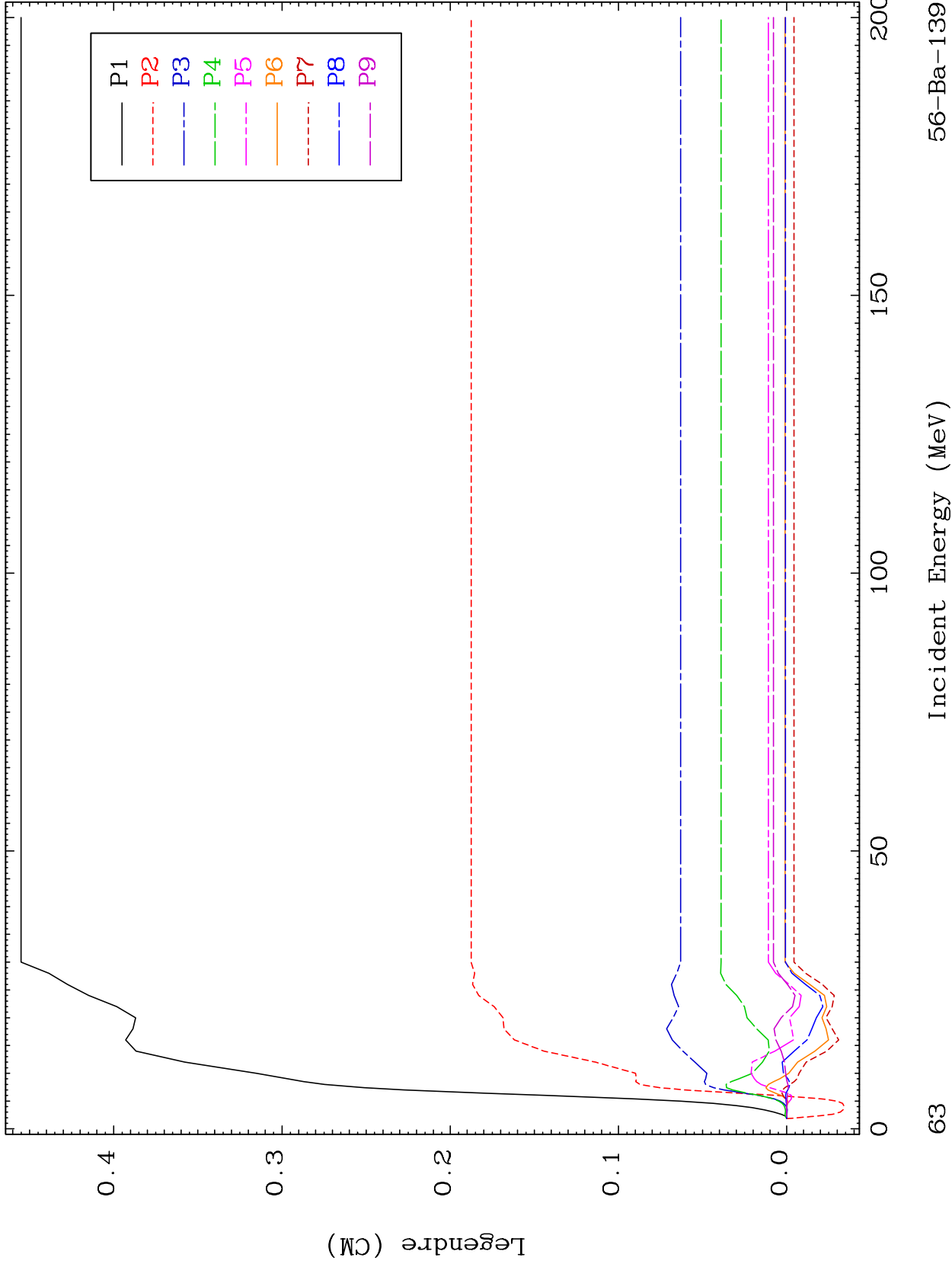
Incident Energy (MeV)

56-Ba-139

MAT 5652

1.818 MeV (n,n') Level
Legendre Coefficients

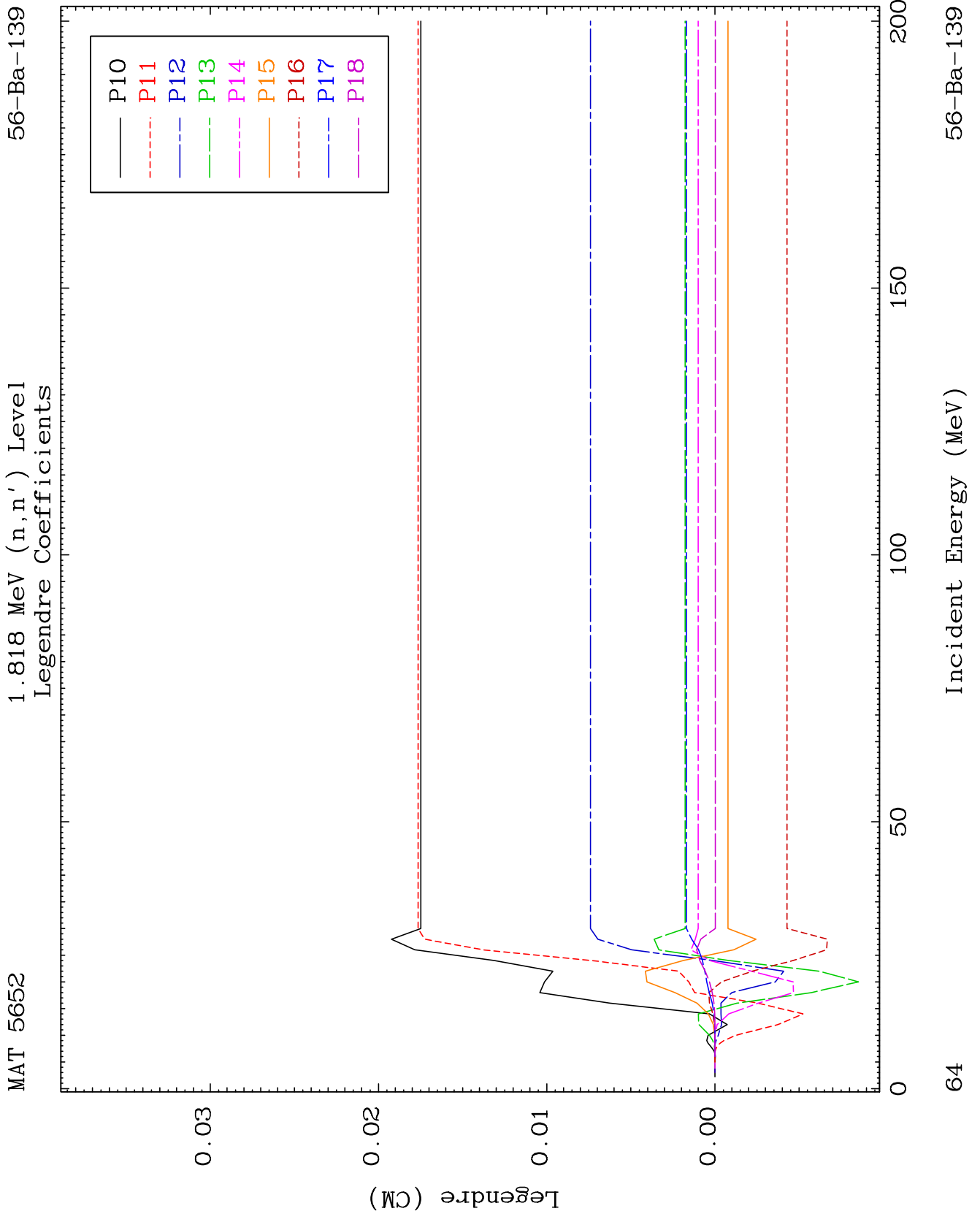
56-Ba-139



56-Ba-139

Incident Energy (MeV)

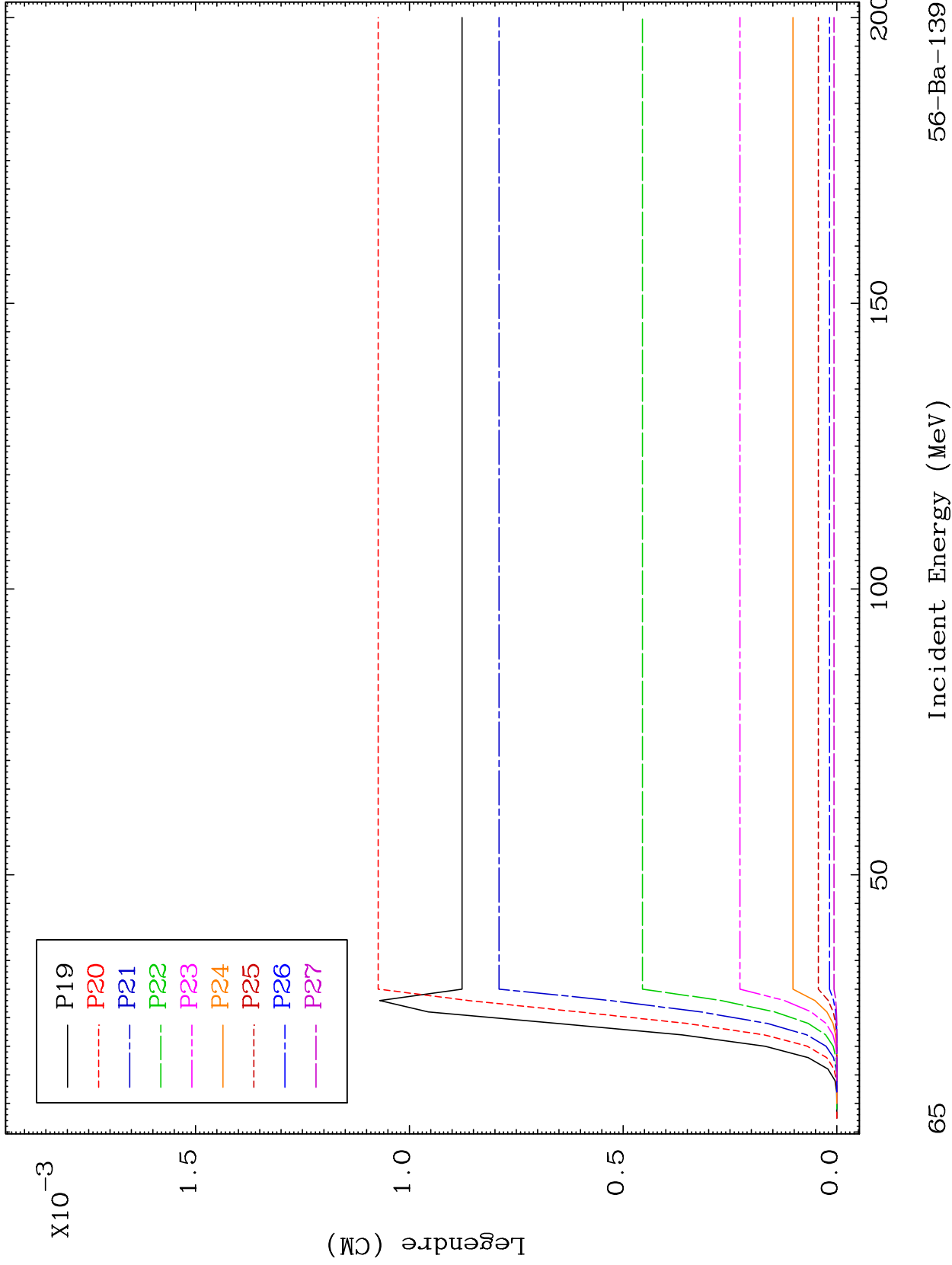
63



MAT 5652

1.818 MeV (n, n') Level
Legendre Coefficients

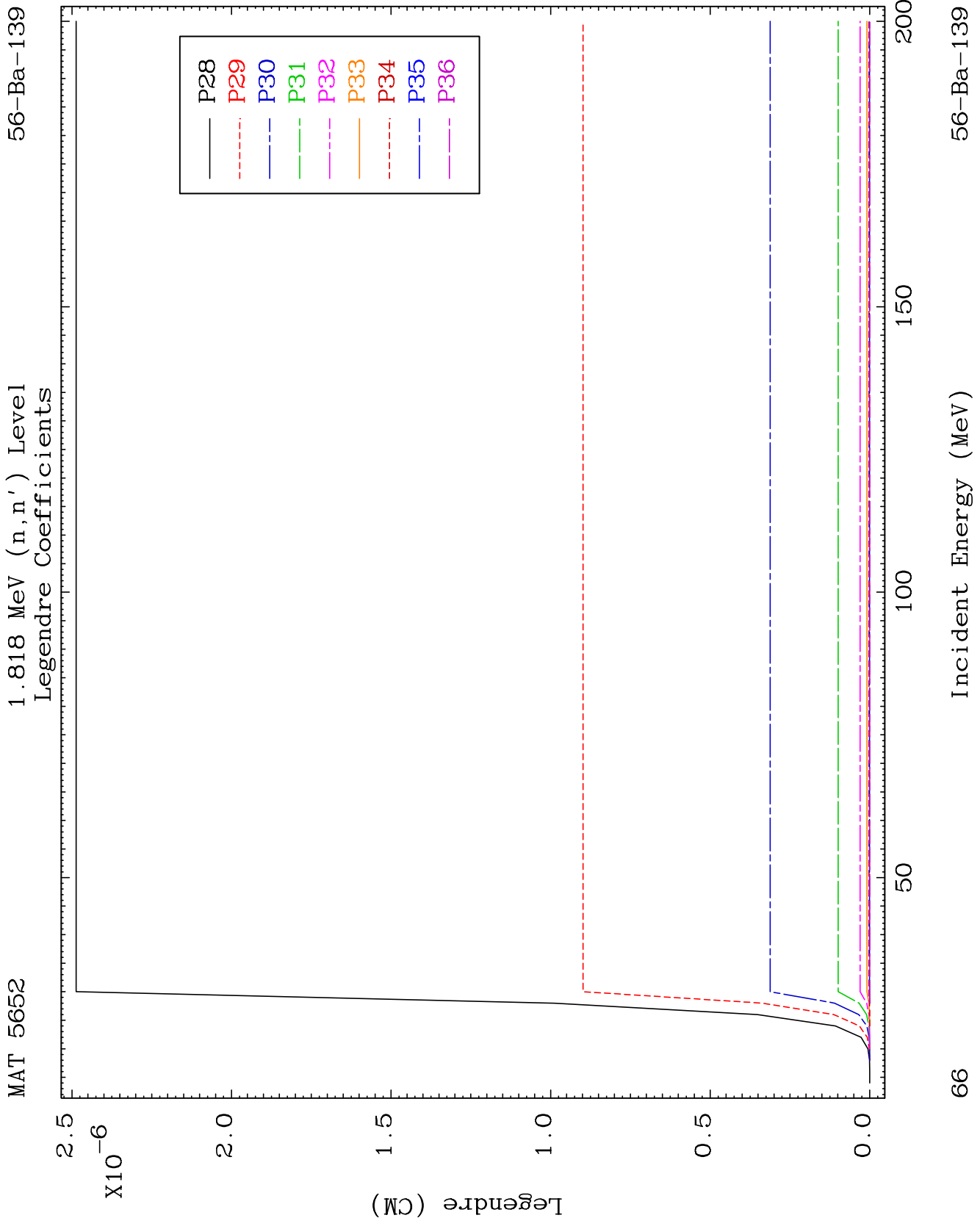
56-Ba-139



65

Incident Energy (MeV)

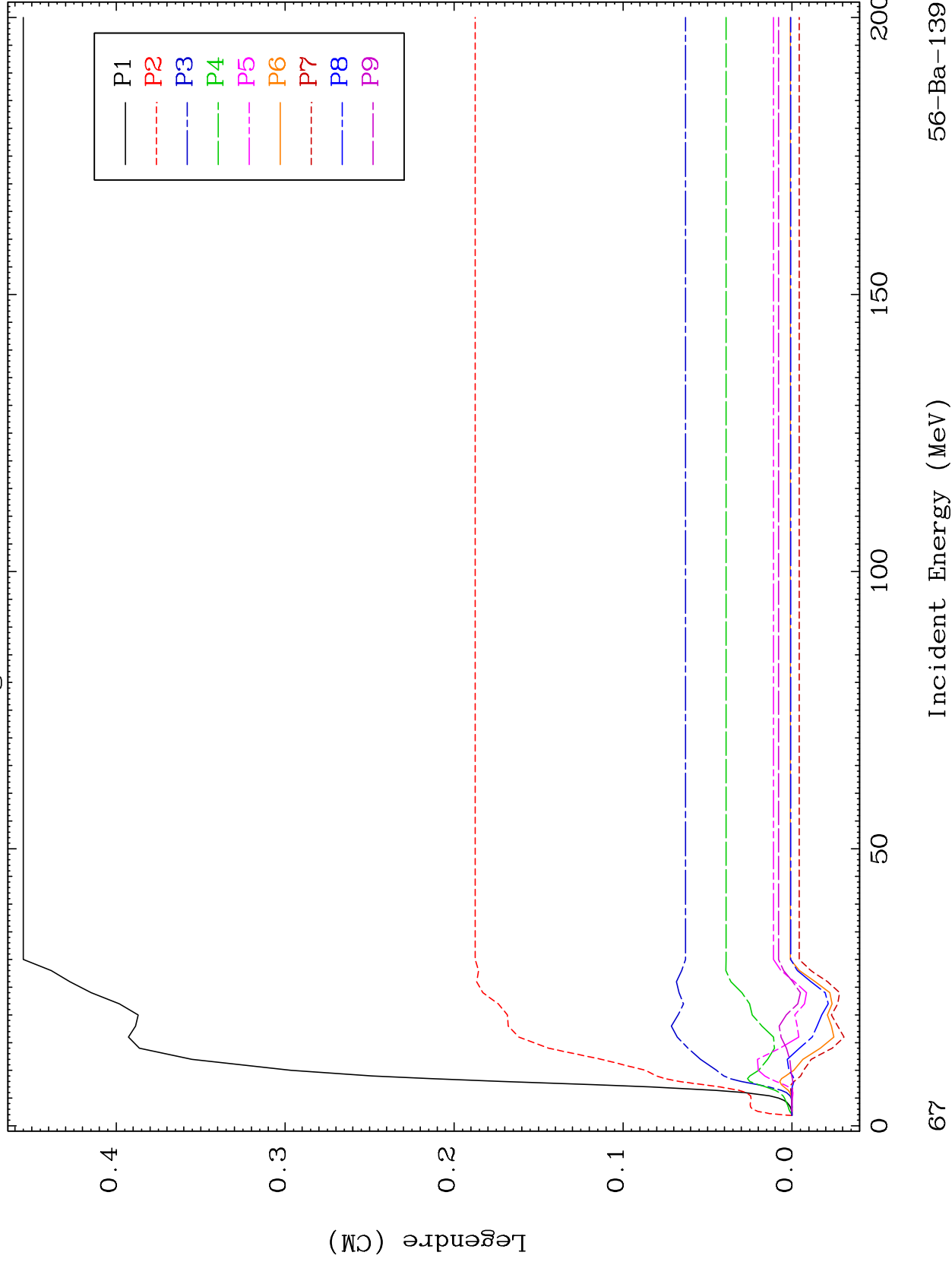
56-Ba-139



MAT 5652

1.829 MeV (n,n') Level
Legendre Coefficients

56-Ba-139



56-Ba-139

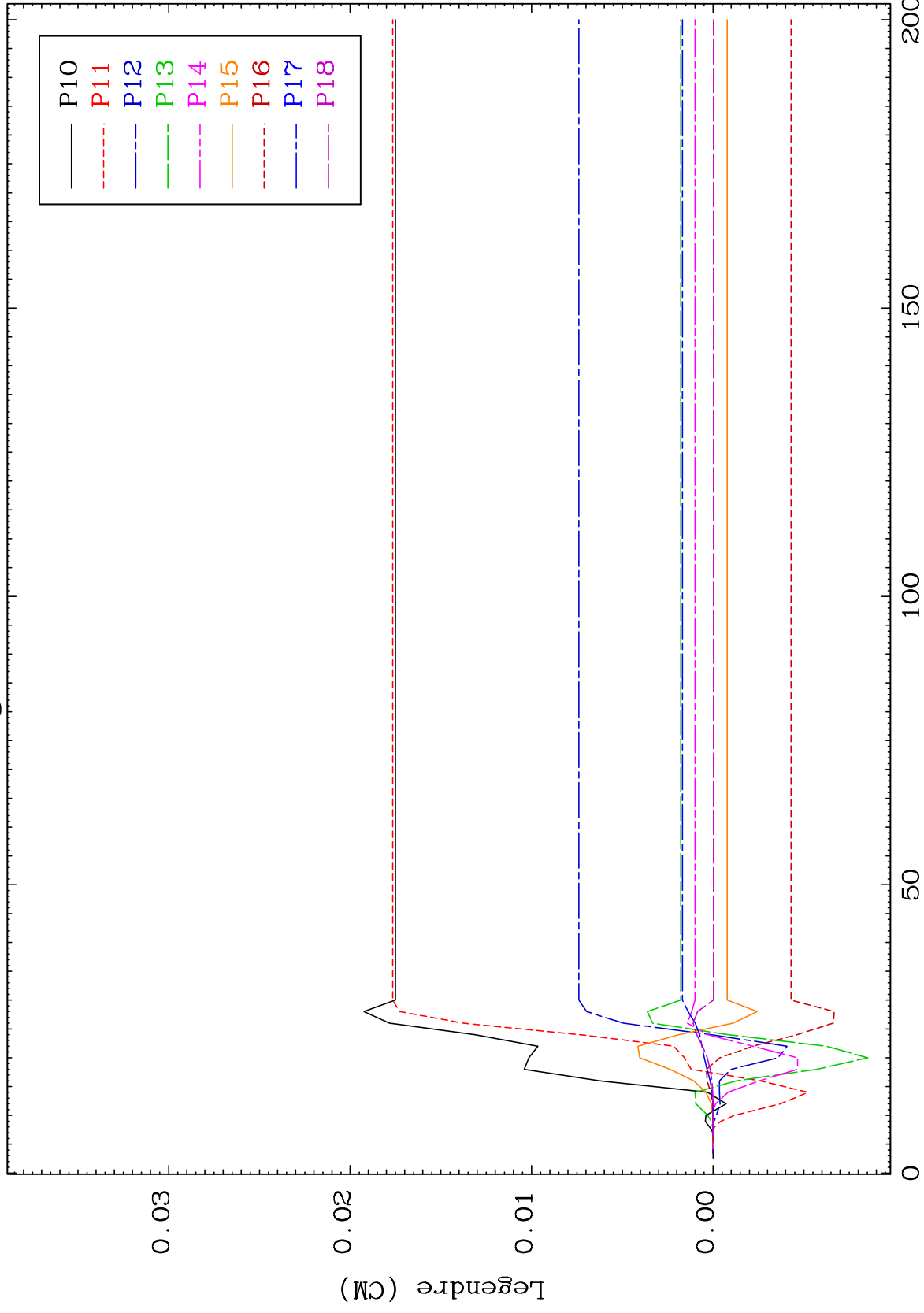
Incident Energy (MeV)

67

MAT 5652

1.829 MeV (n, n') Level
Legendre Coefficients

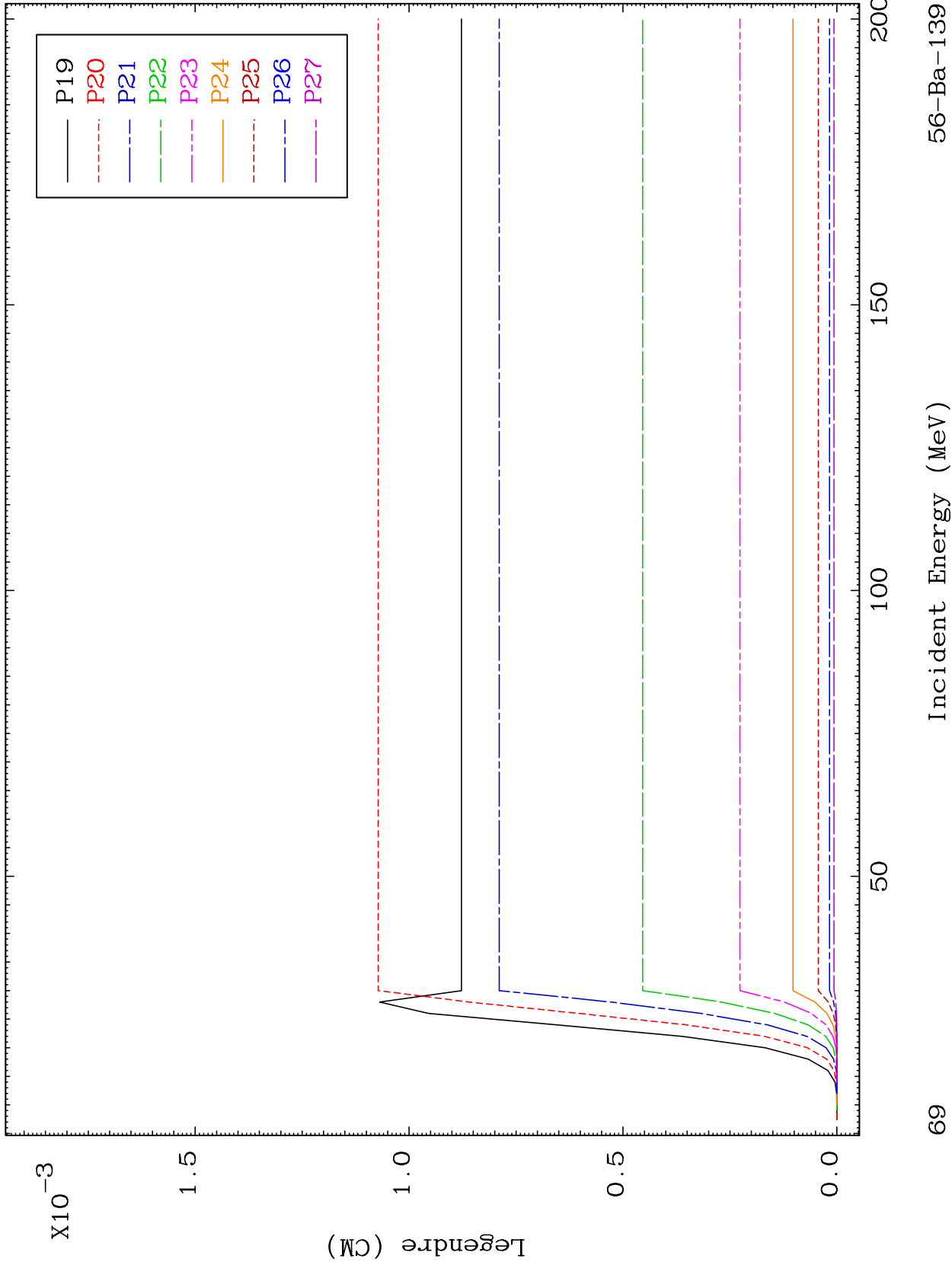
56-Ba-139



68

Incident Energy (MeV)

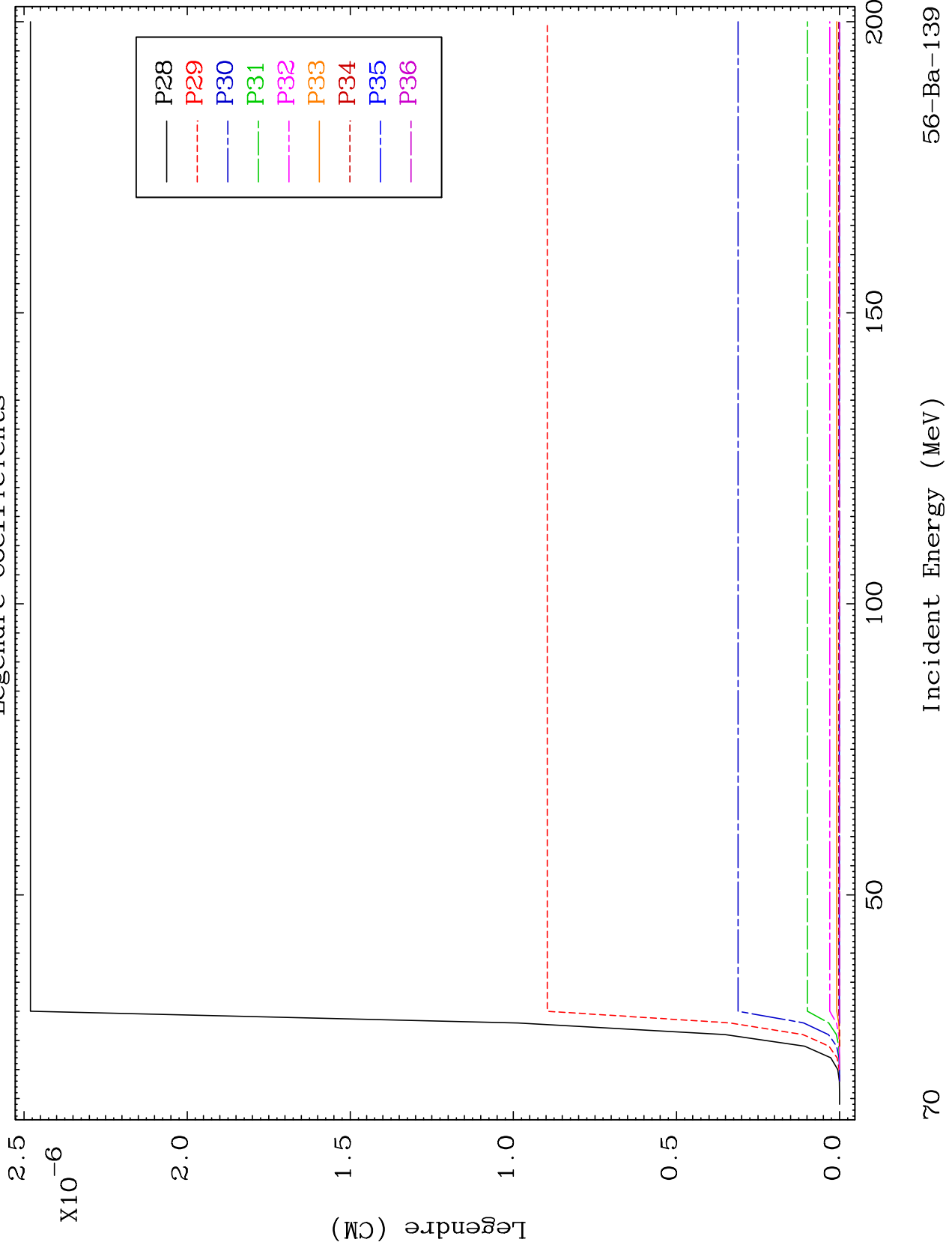
56-Ba-139



MAT 5652

1.829 MeV (n, n') Level
Legendre Coefficients

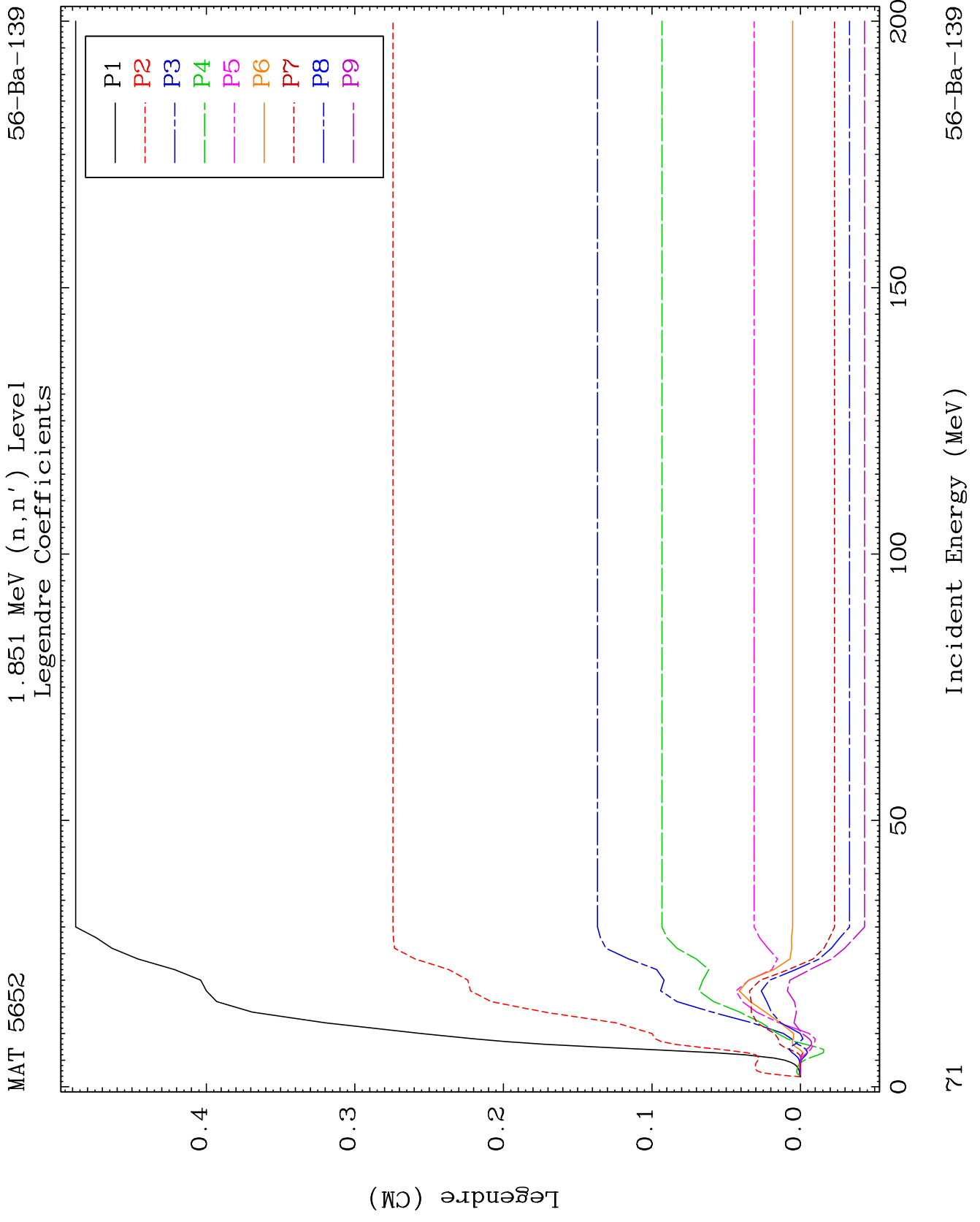
56-Ba-139



56-Ba-139

Incident Energy (MeV)

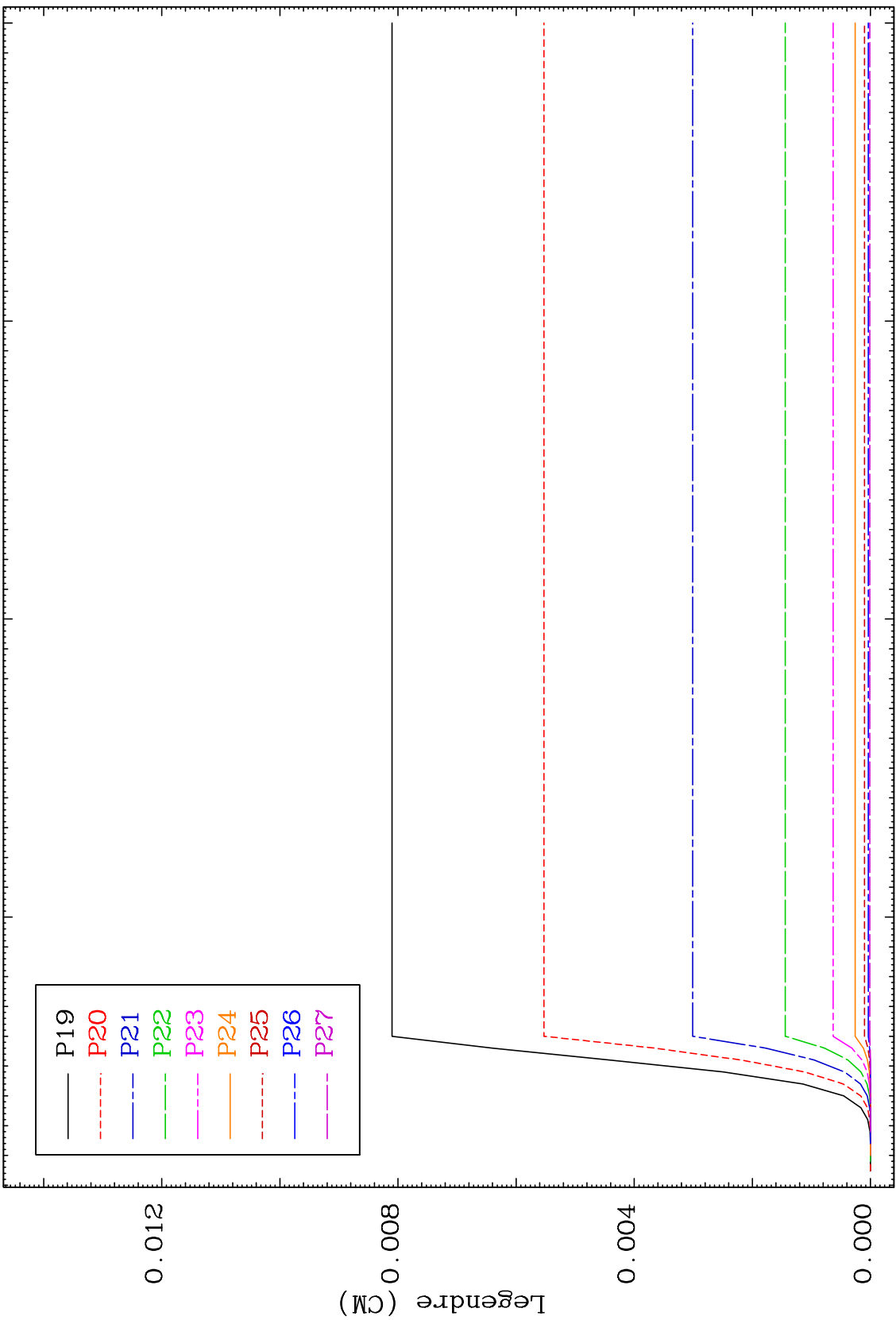
70



MAT 5652

1.851 MeV (n,n') Level
Legendre Coefficients

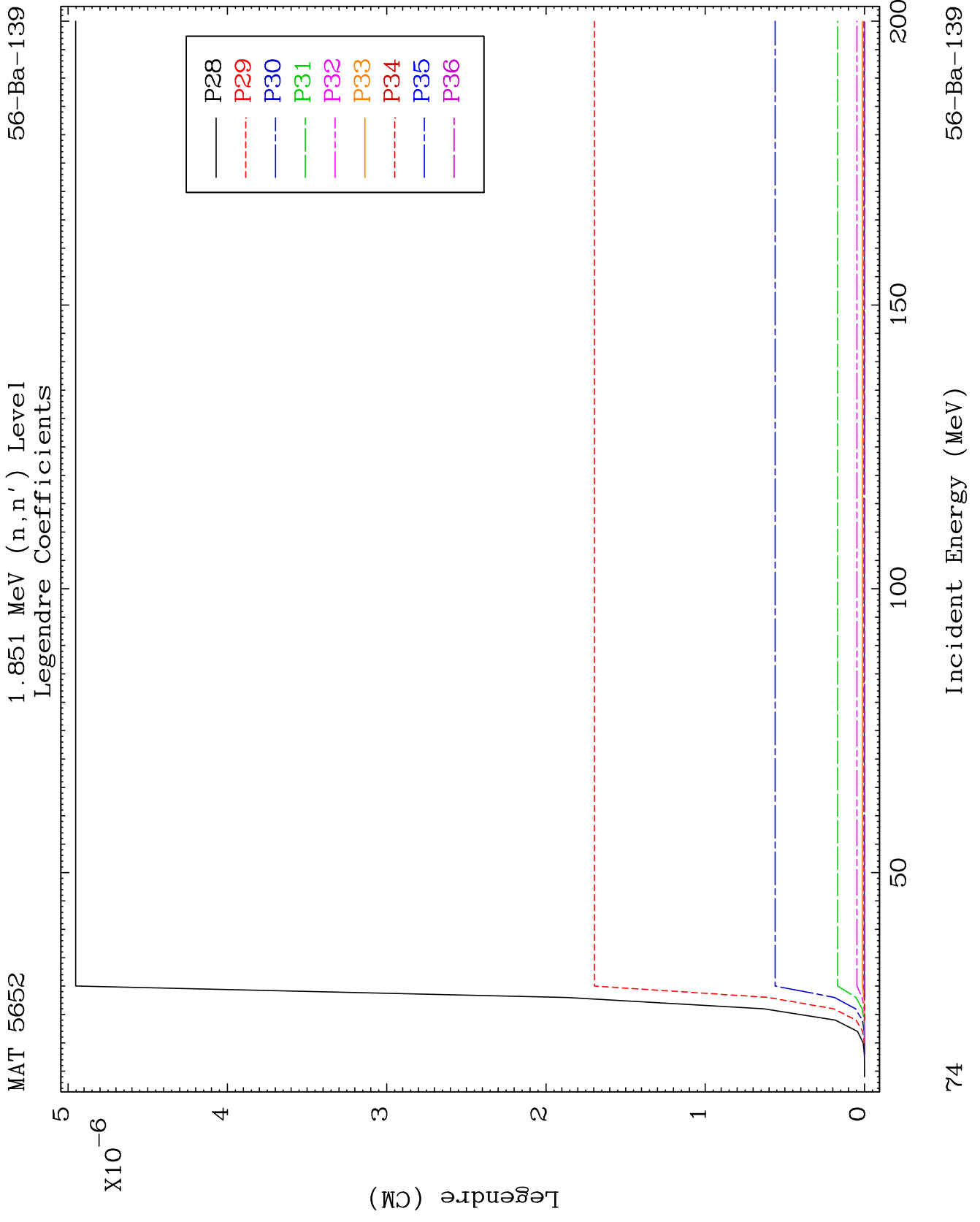
56-Ba-139

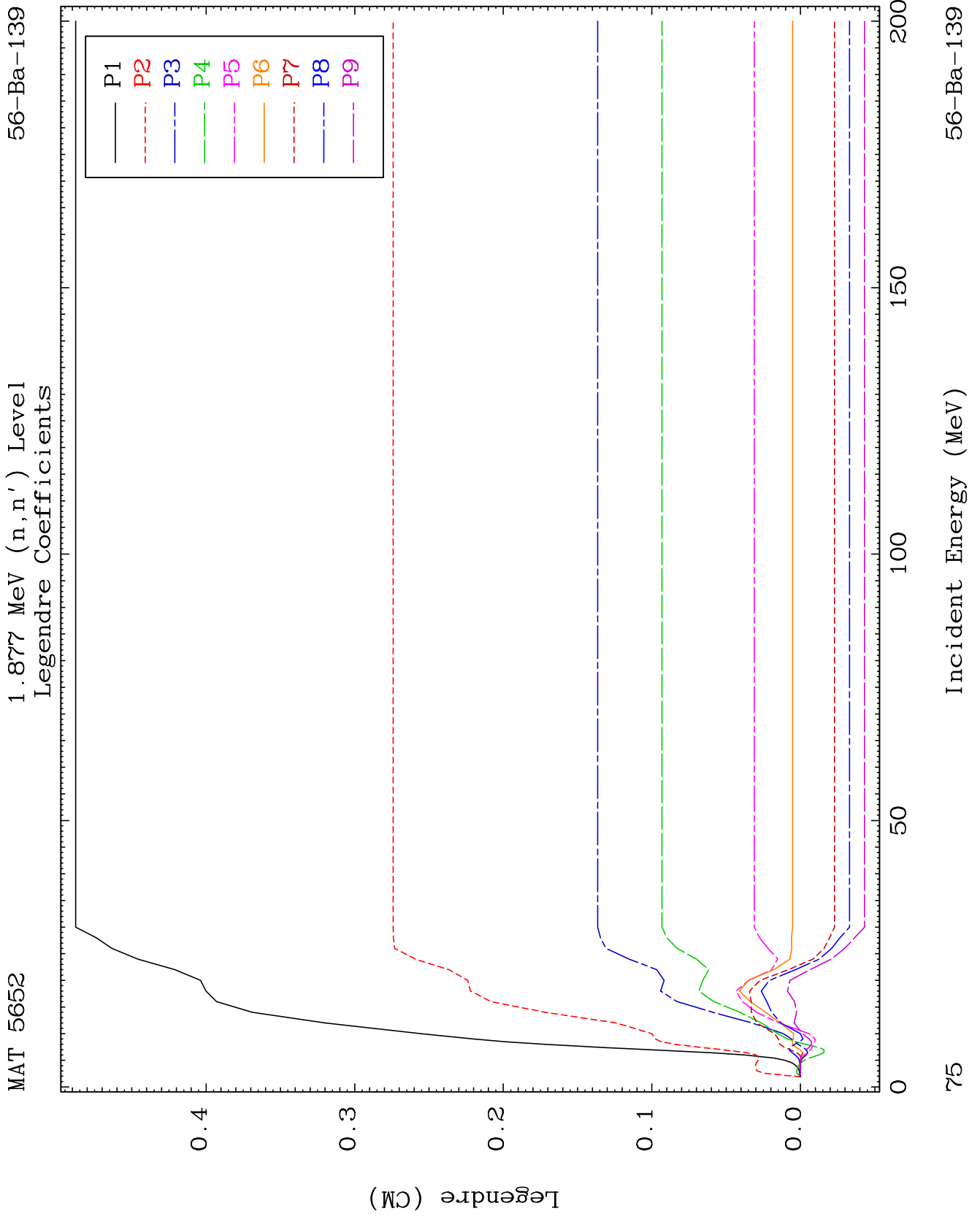


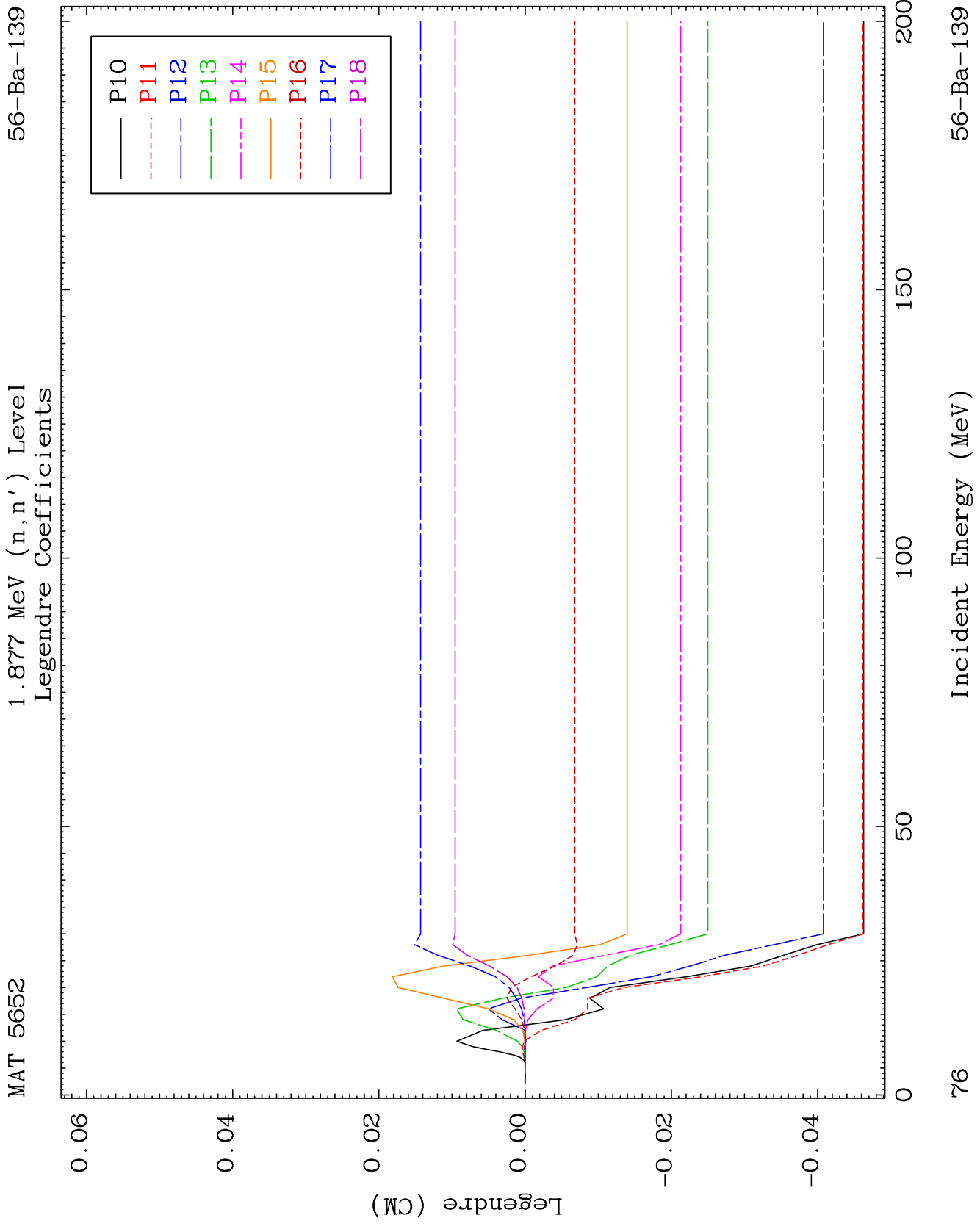
73

Incident Energy (MeV)

56-Ba-139



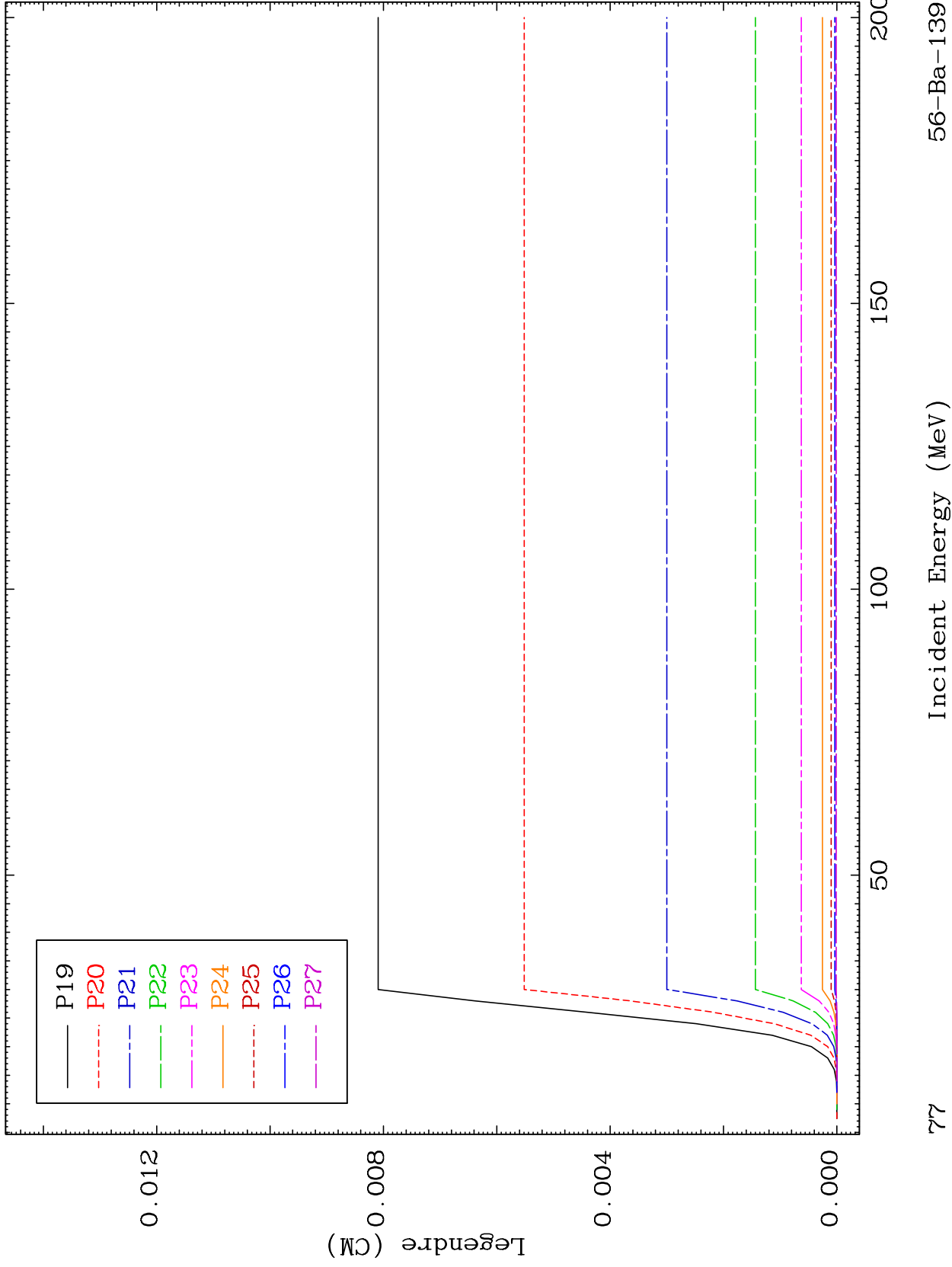




MAT 5652

1.877 MeV (n,n') Level
Legendre Coefficients

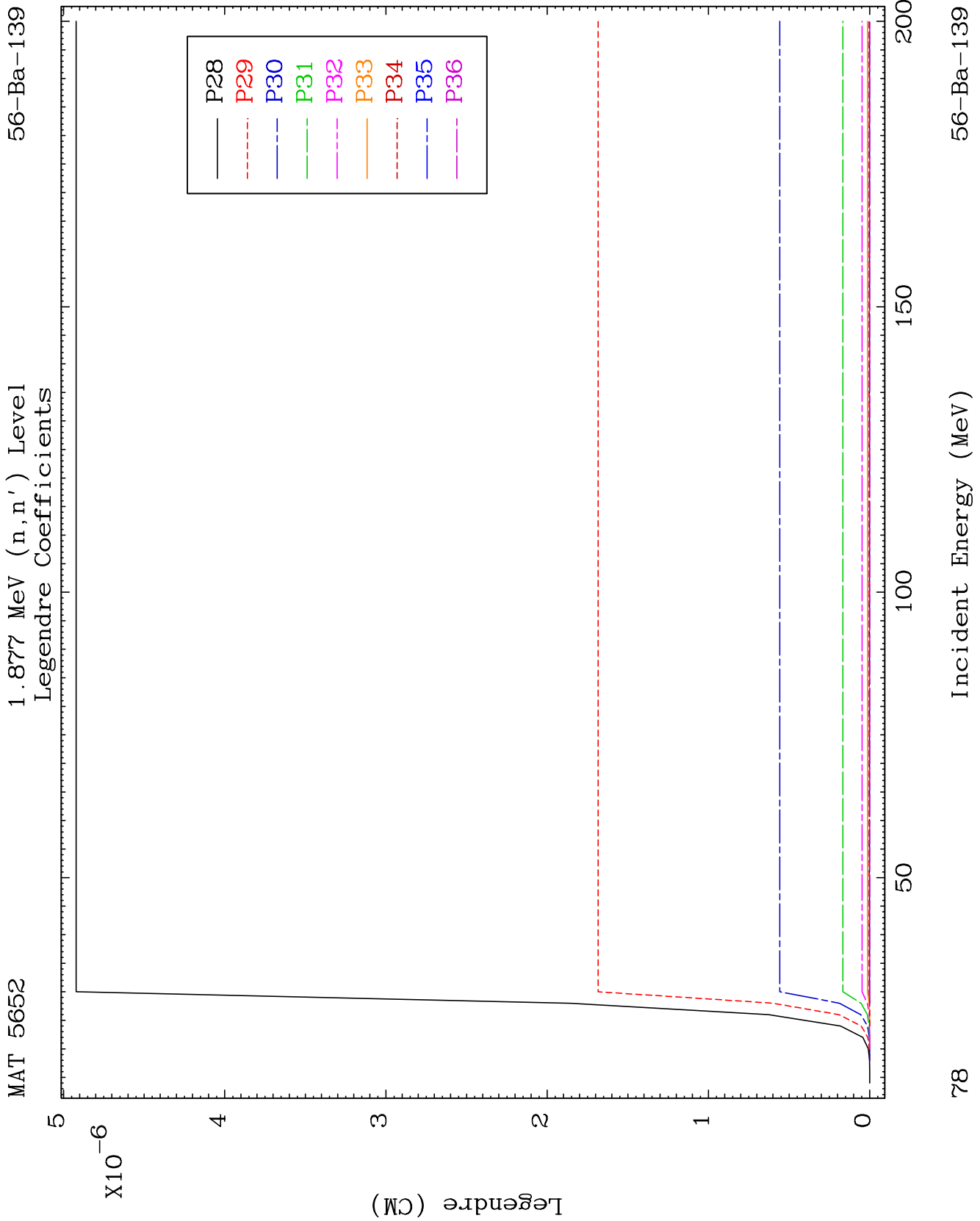
56-Ba-139



77

Incident Energy (MeV)

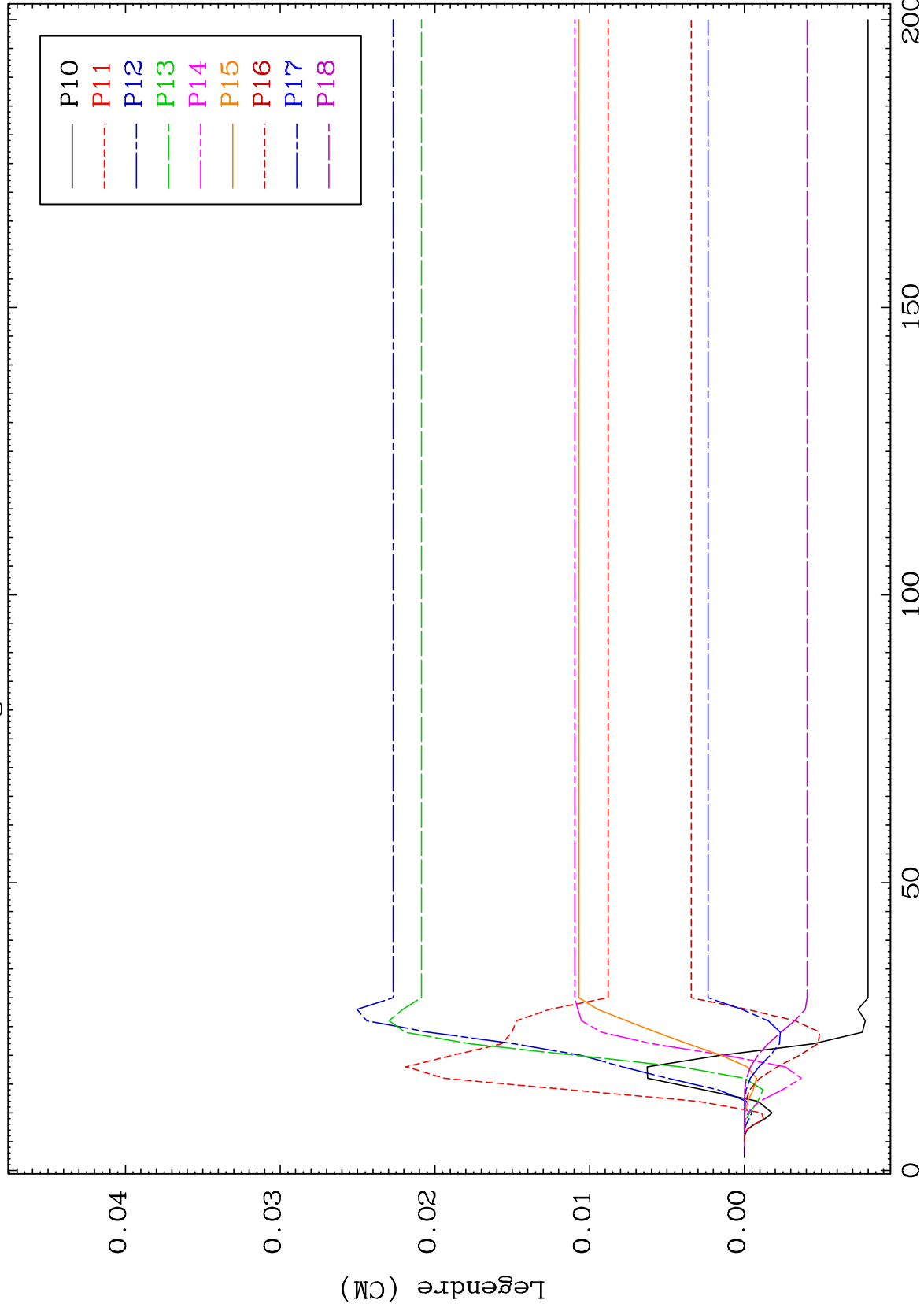
56-Ba-139



MAT 5652

1.888 MeV (n,n') Level
Legendre Coefficients

56-Ba-139



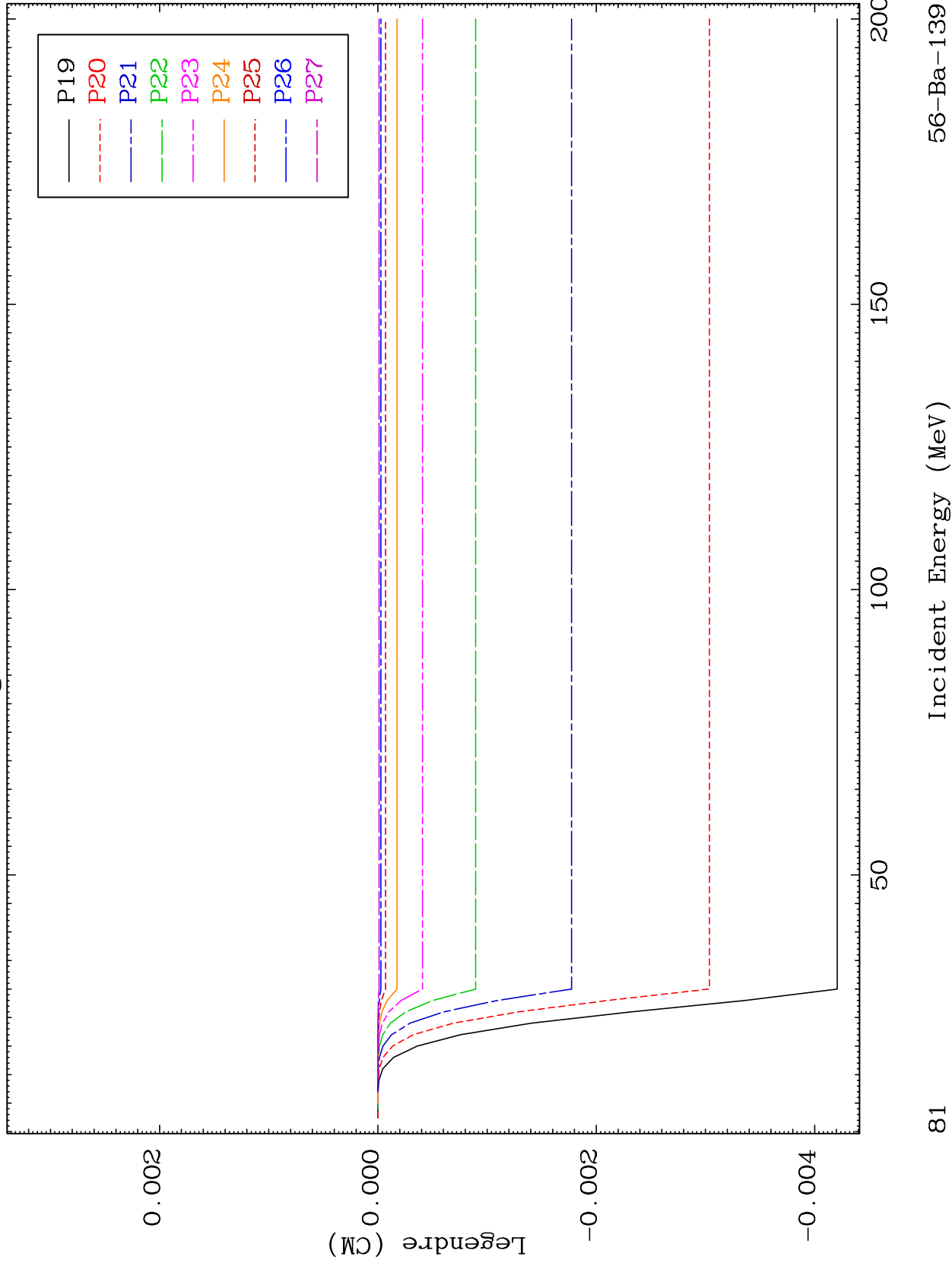
80

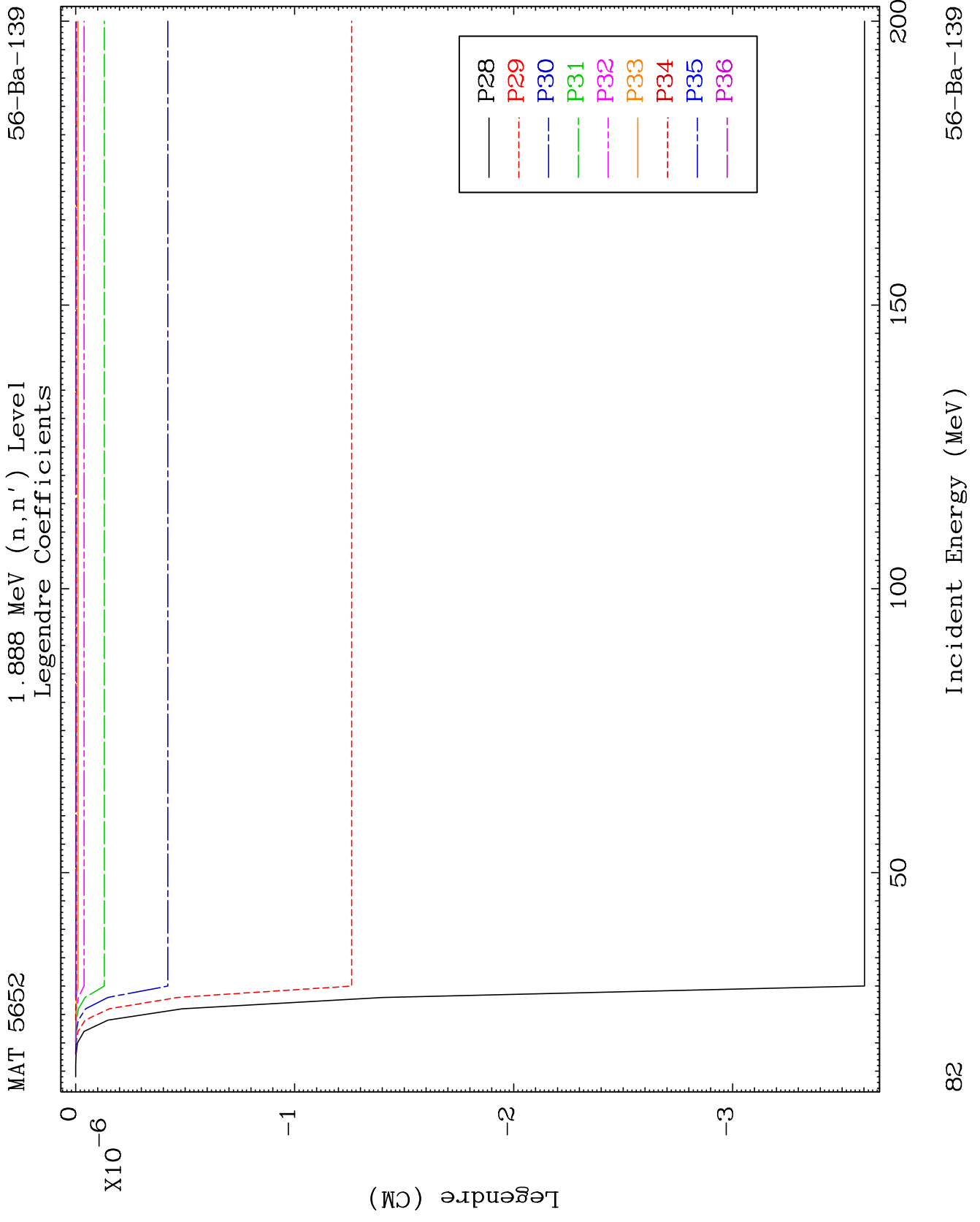
Incident Energy (MeV)

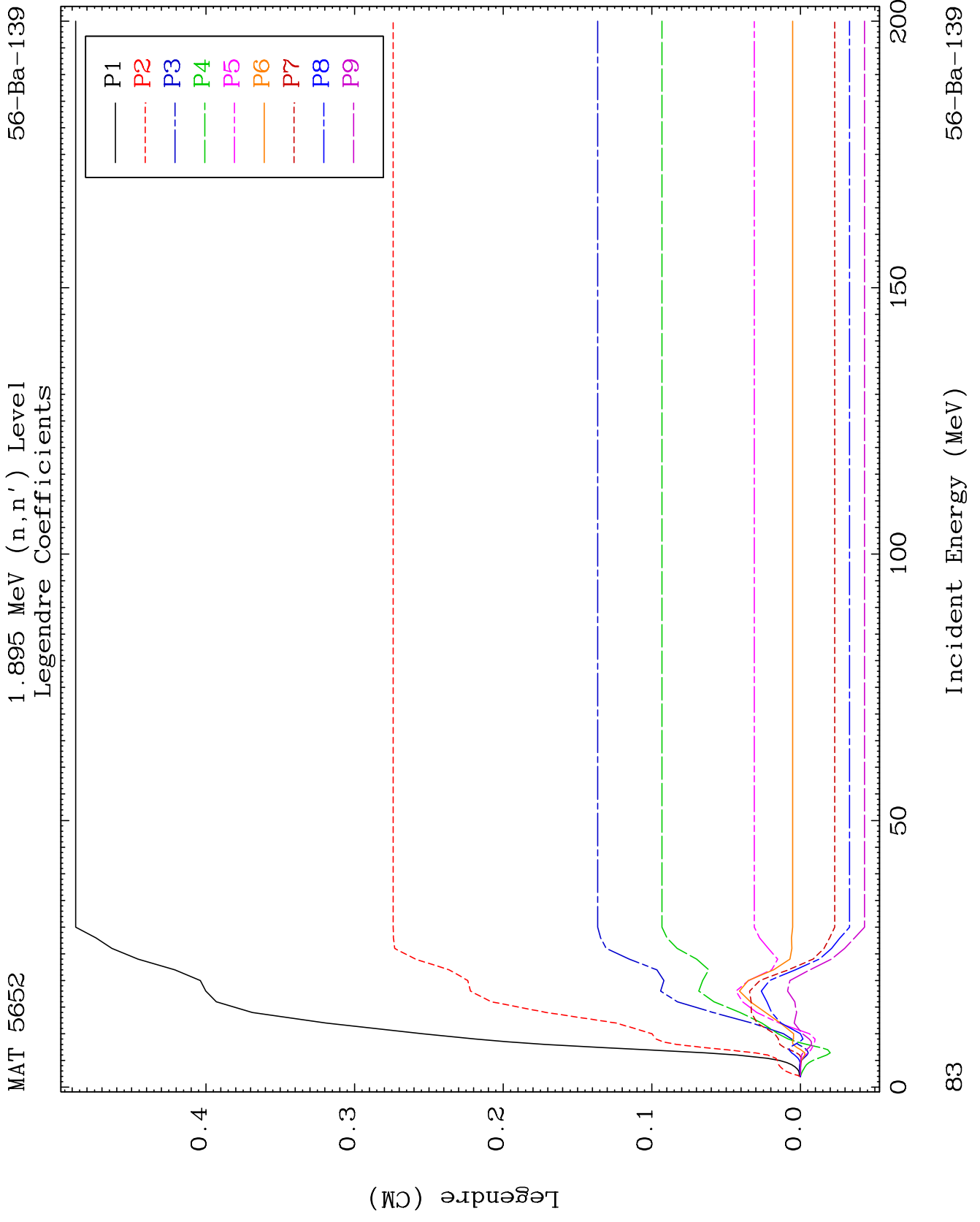
150

200

56-Ba-139



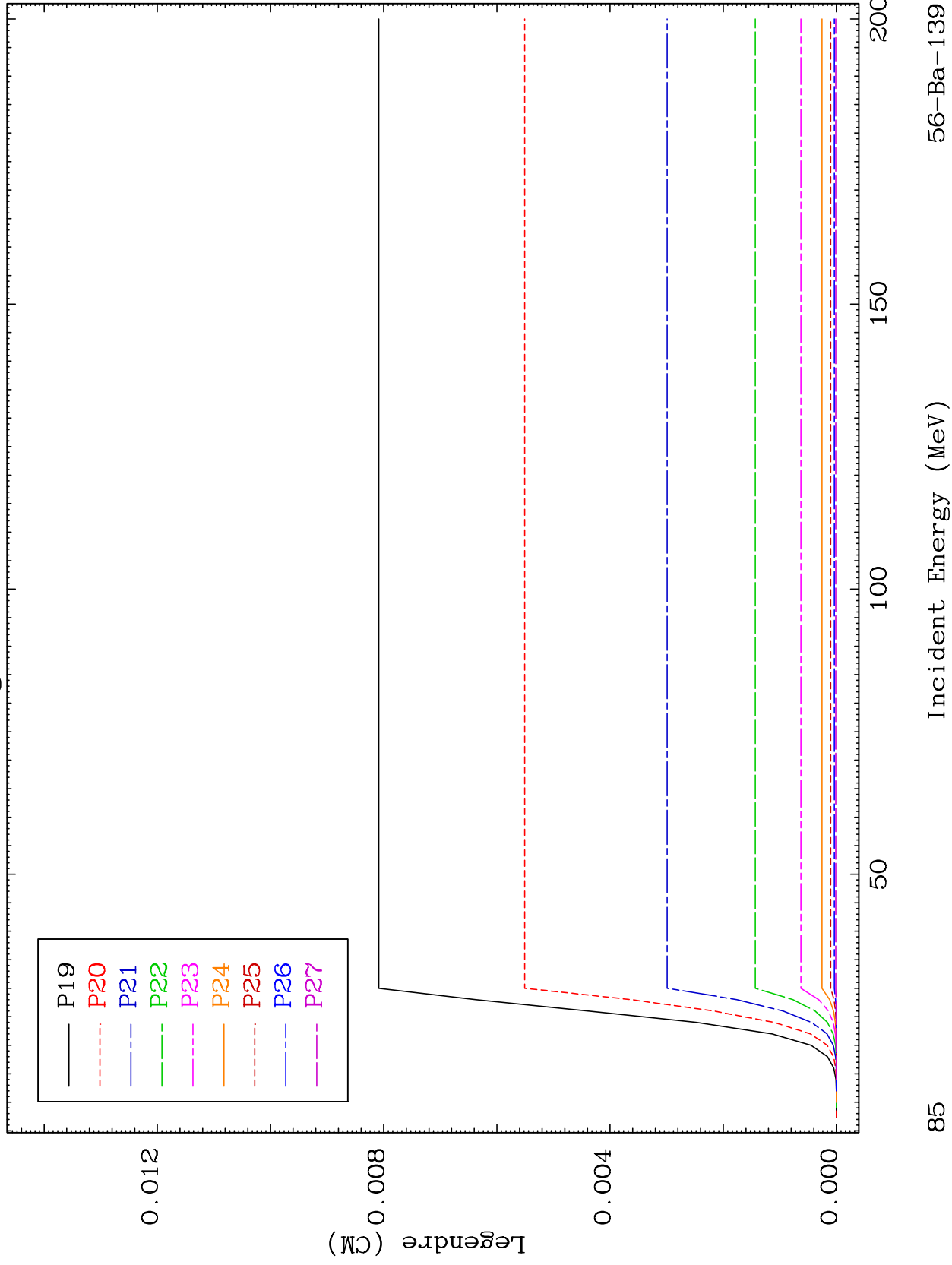




MAT 5652

1.895 MeV (n,n') Level
Legendre Coefficients

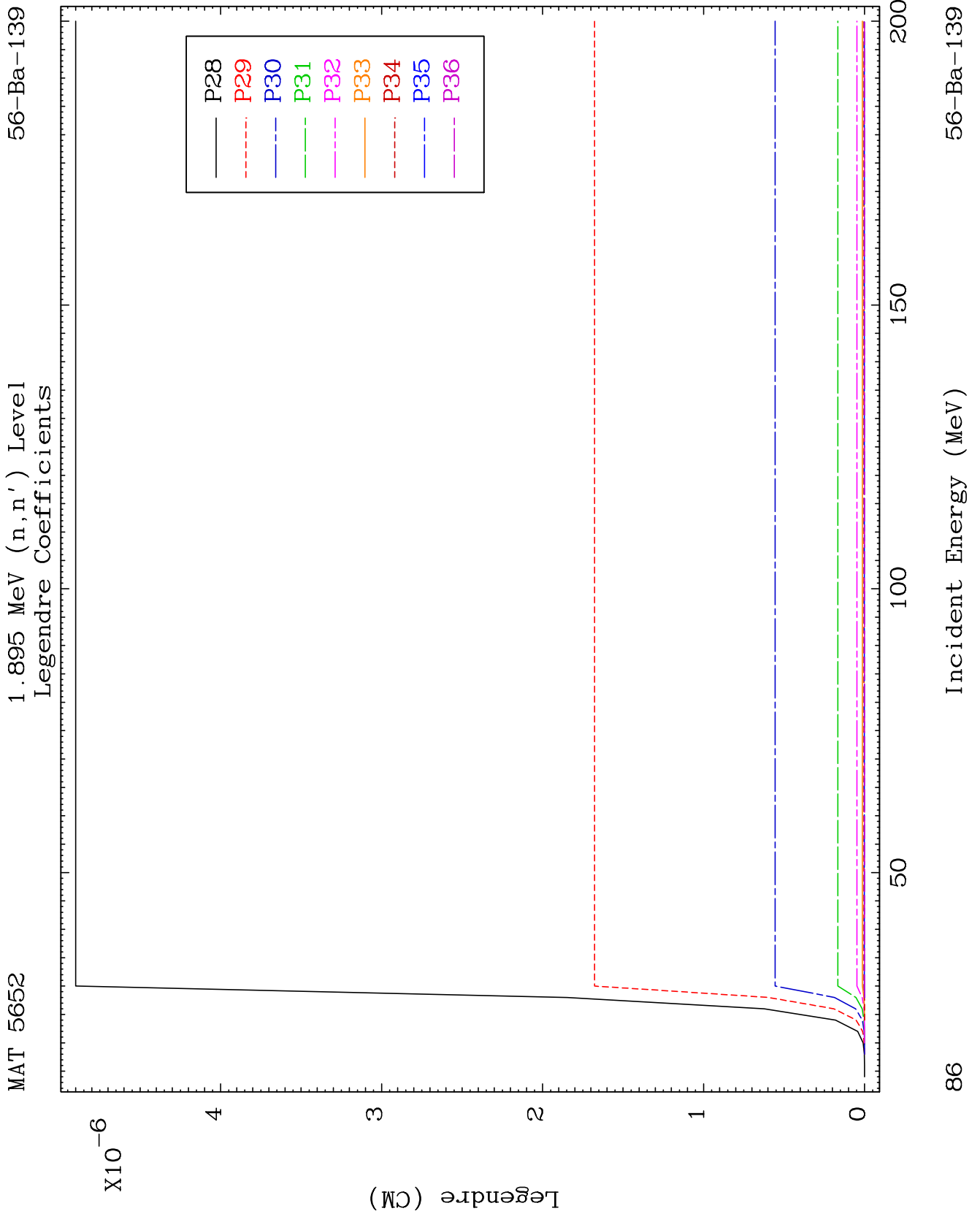
56-Ba-139



85

Incident Energy (MeV)

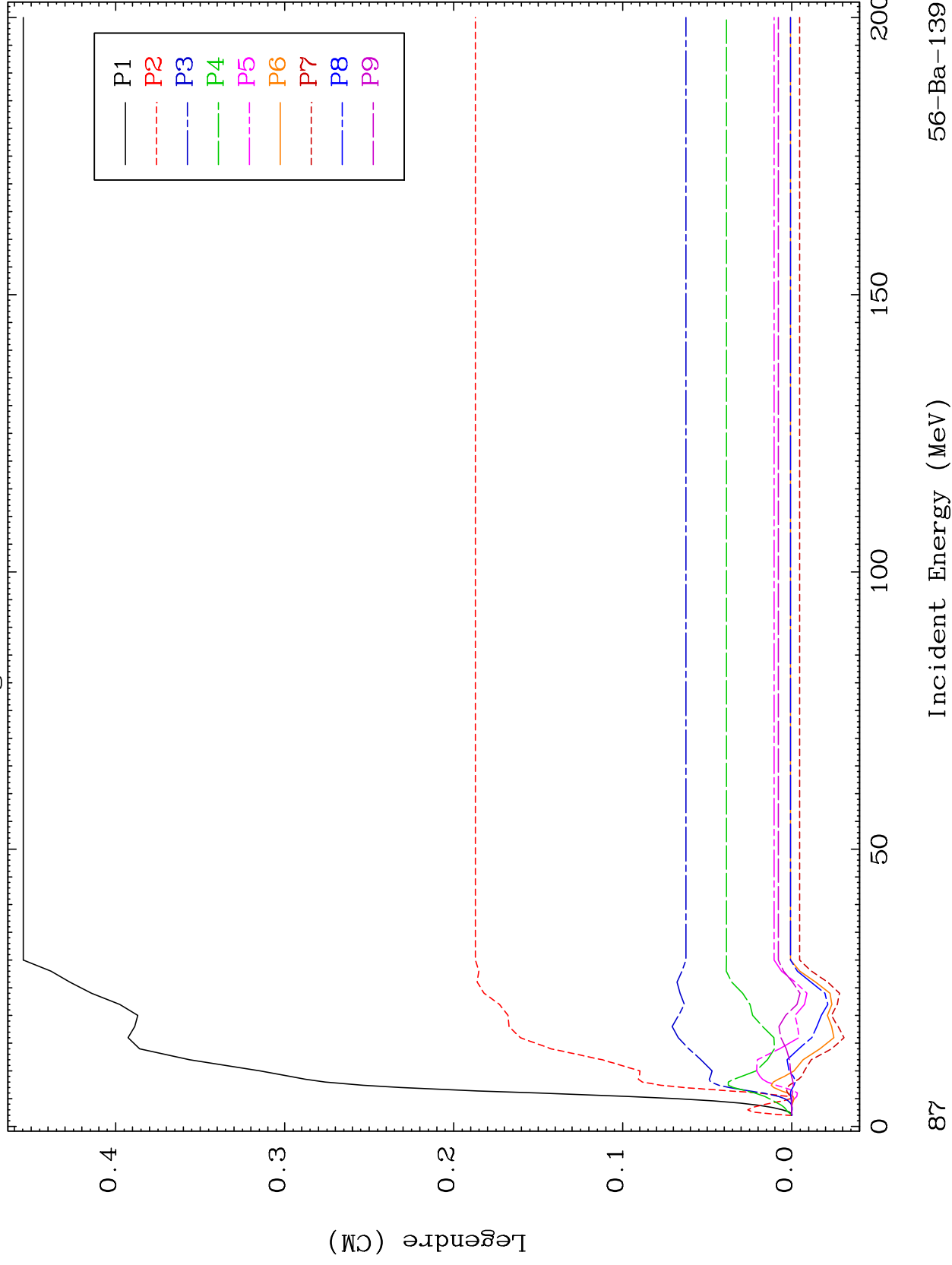
56-Ba-139



MAT 5652

1.933 MeV (n,n') Level
Legendre Coefficients

56-Ba-139



56-Ba-139

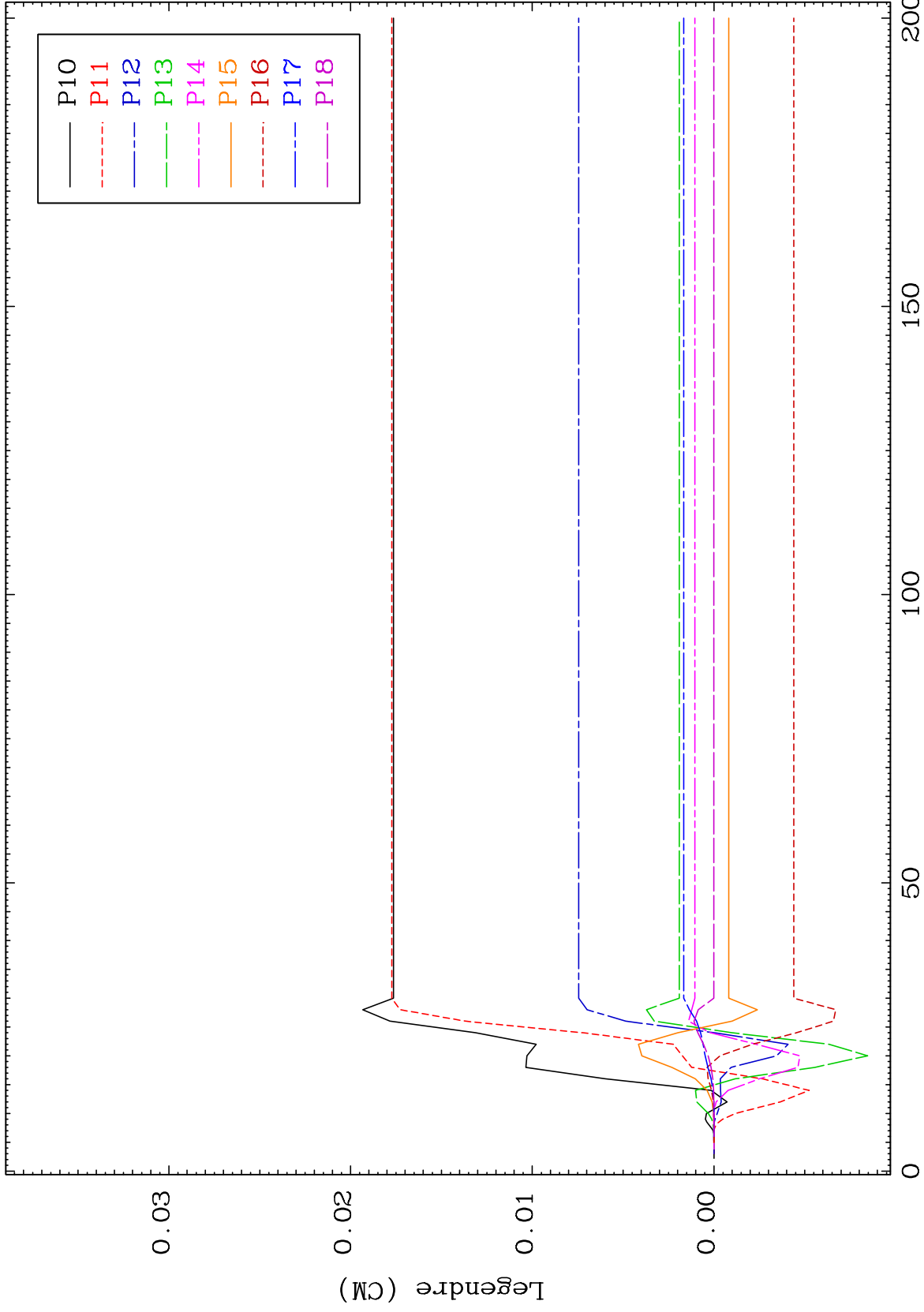
Incident Energy (MeV)

87

MAT 5652

1.933 MeV (n,n') Level Legendre Coefficients

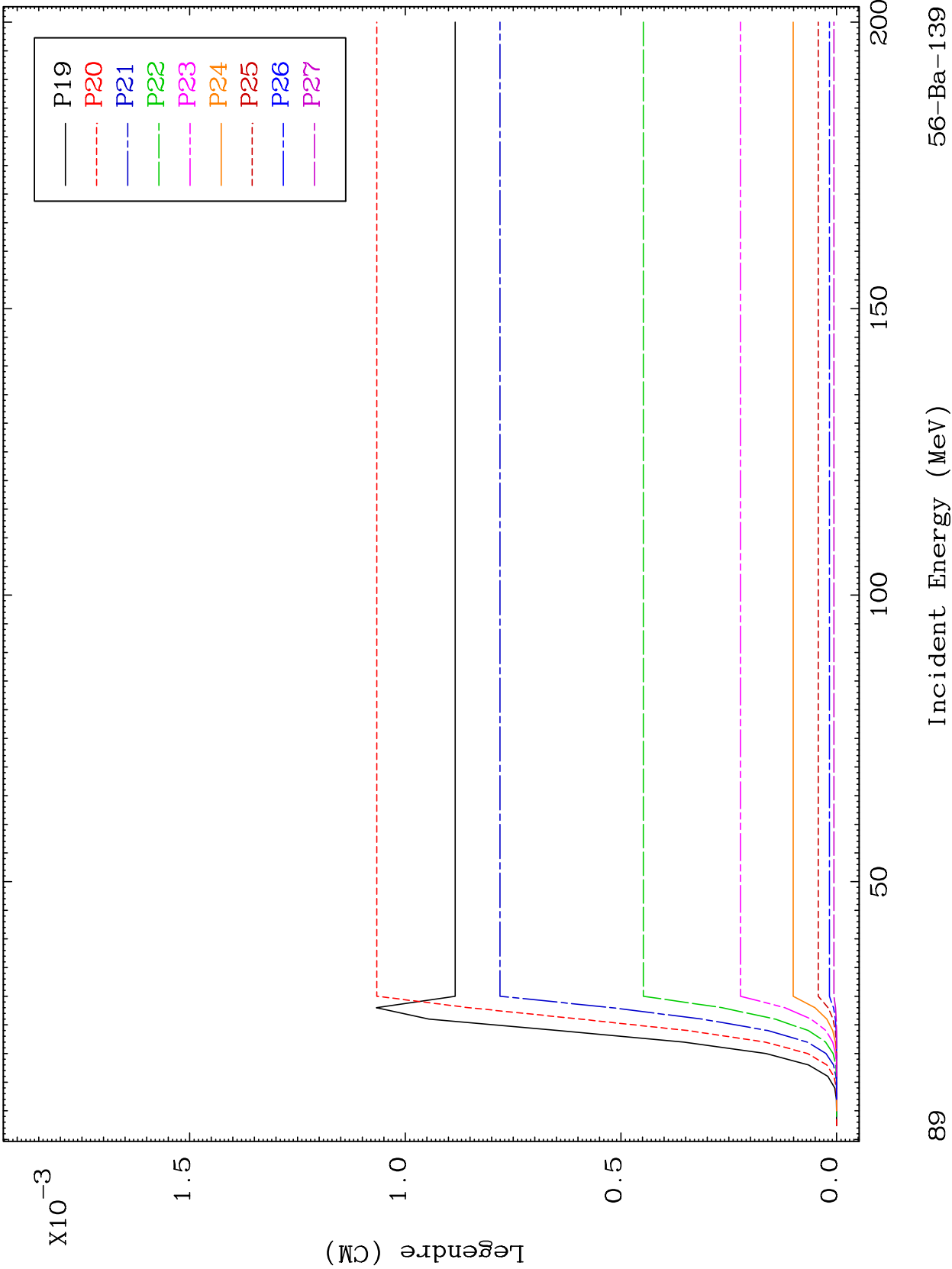
56-Ba-139



88

Incident Energy (MeV)

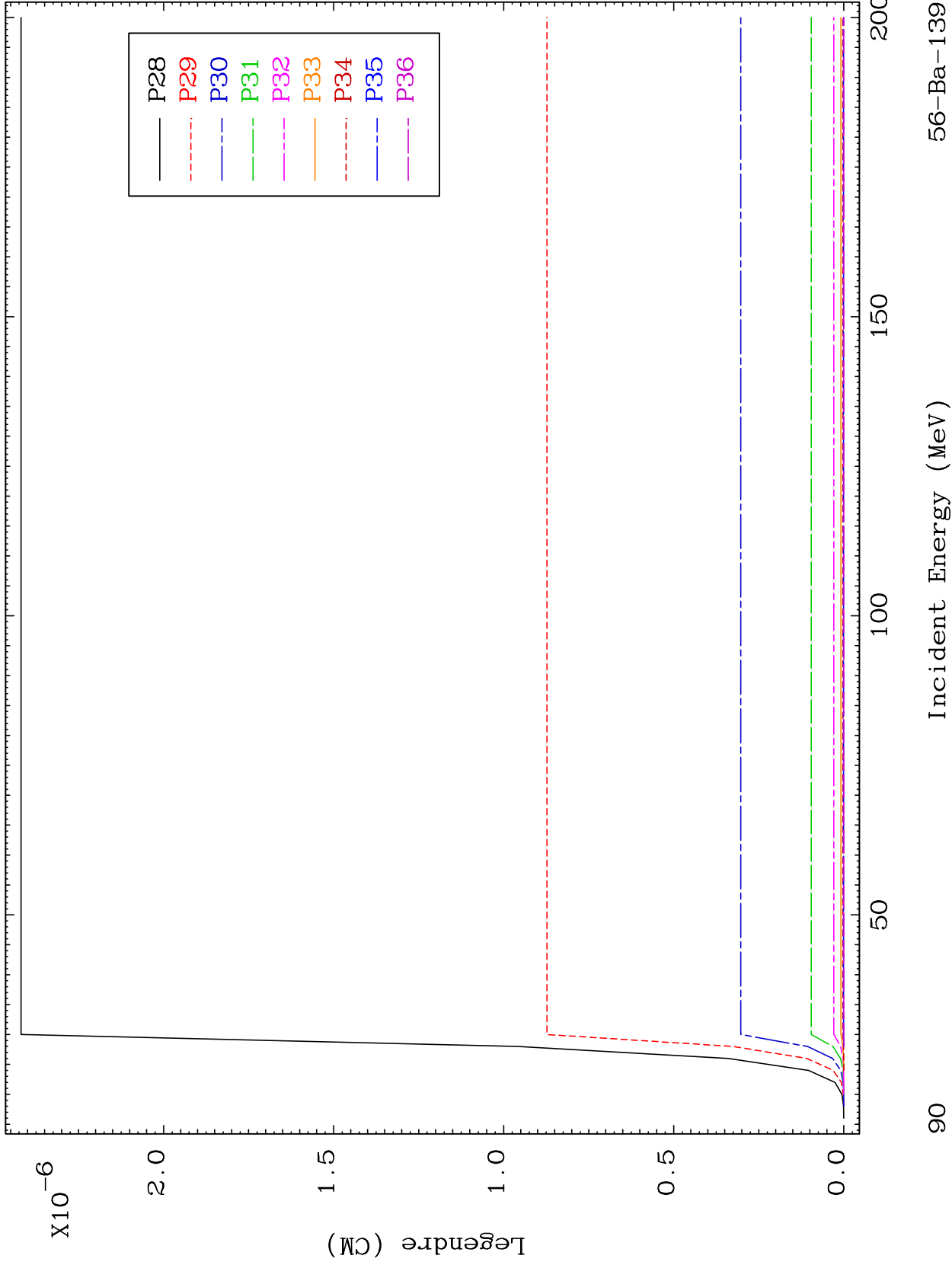
56-Ba-139



MAT 5652

1.933 MeV (n,n') Level
Legendre Coefficients

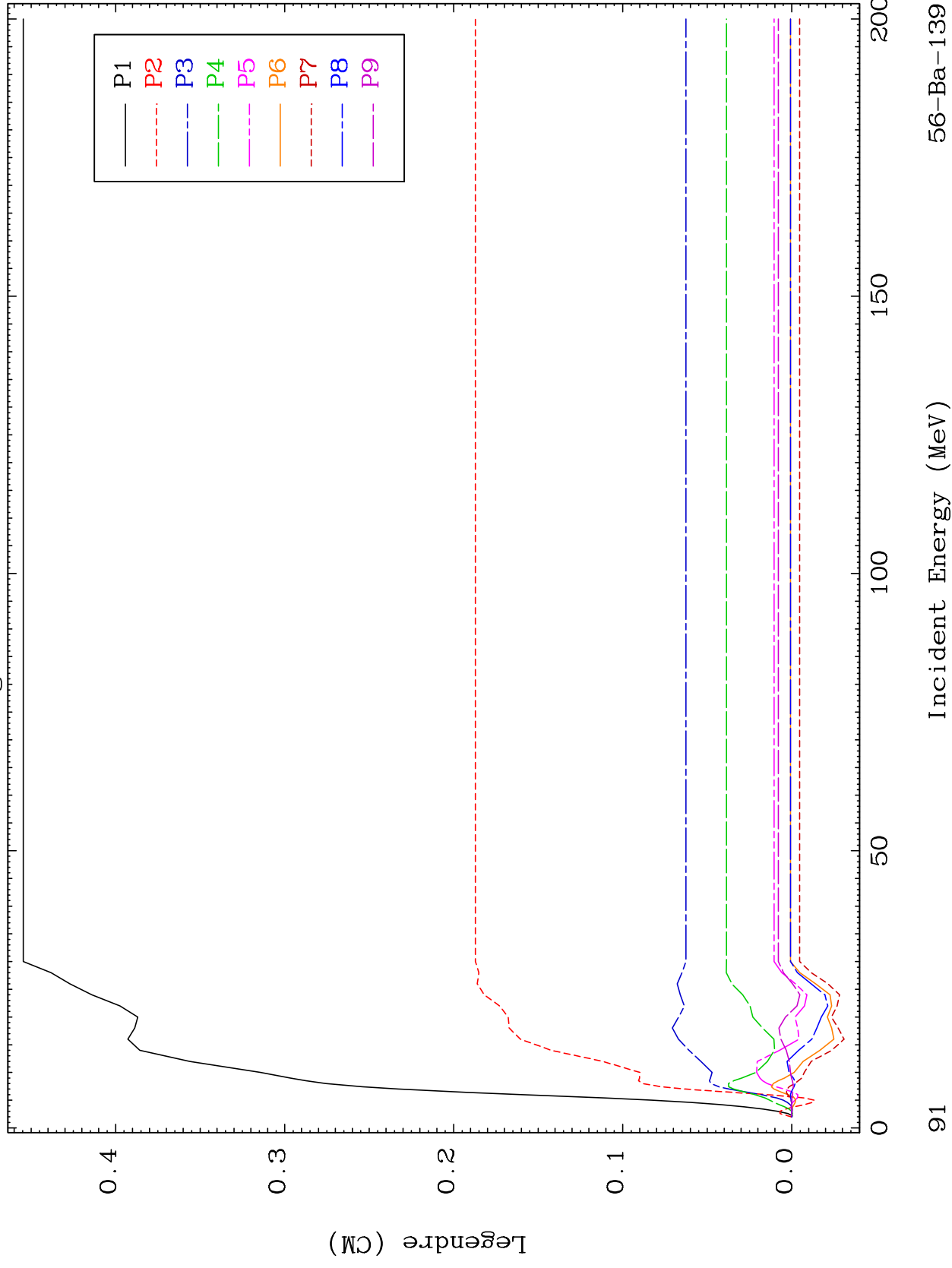
56-Ba-139



MAT 5652

1.946 MeV (n,n') Level
Legendre Coefficients

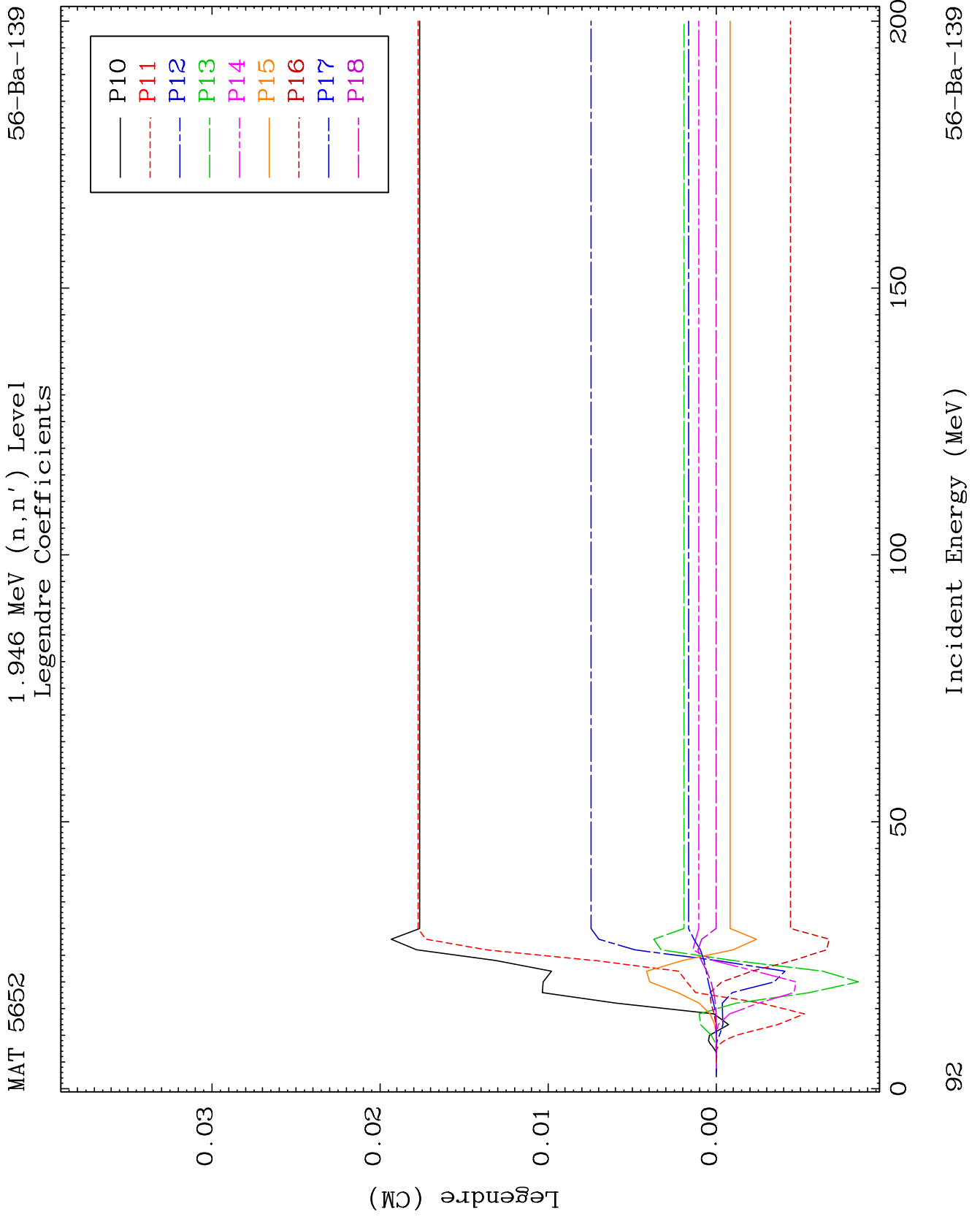
56-Ba-139

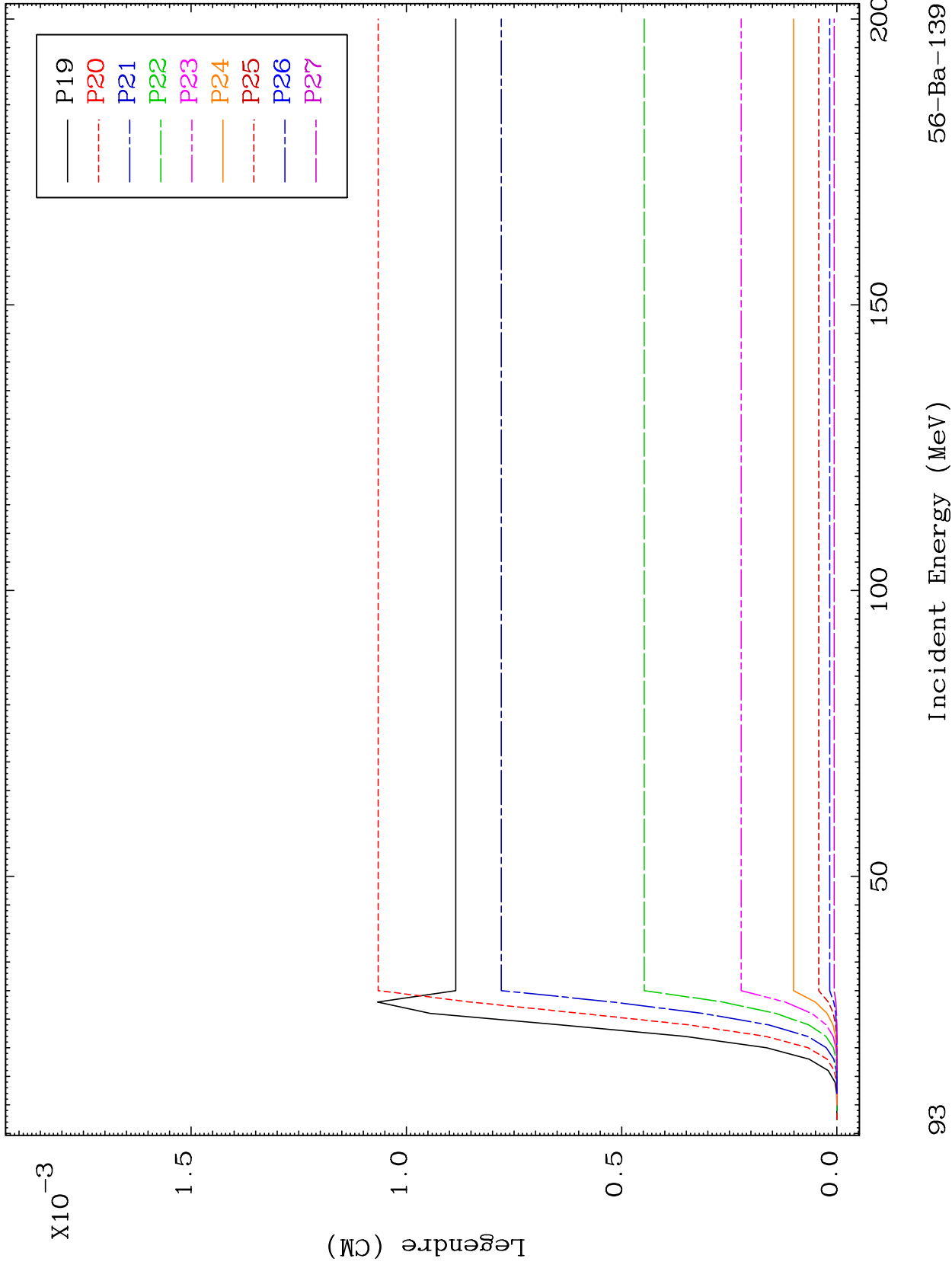


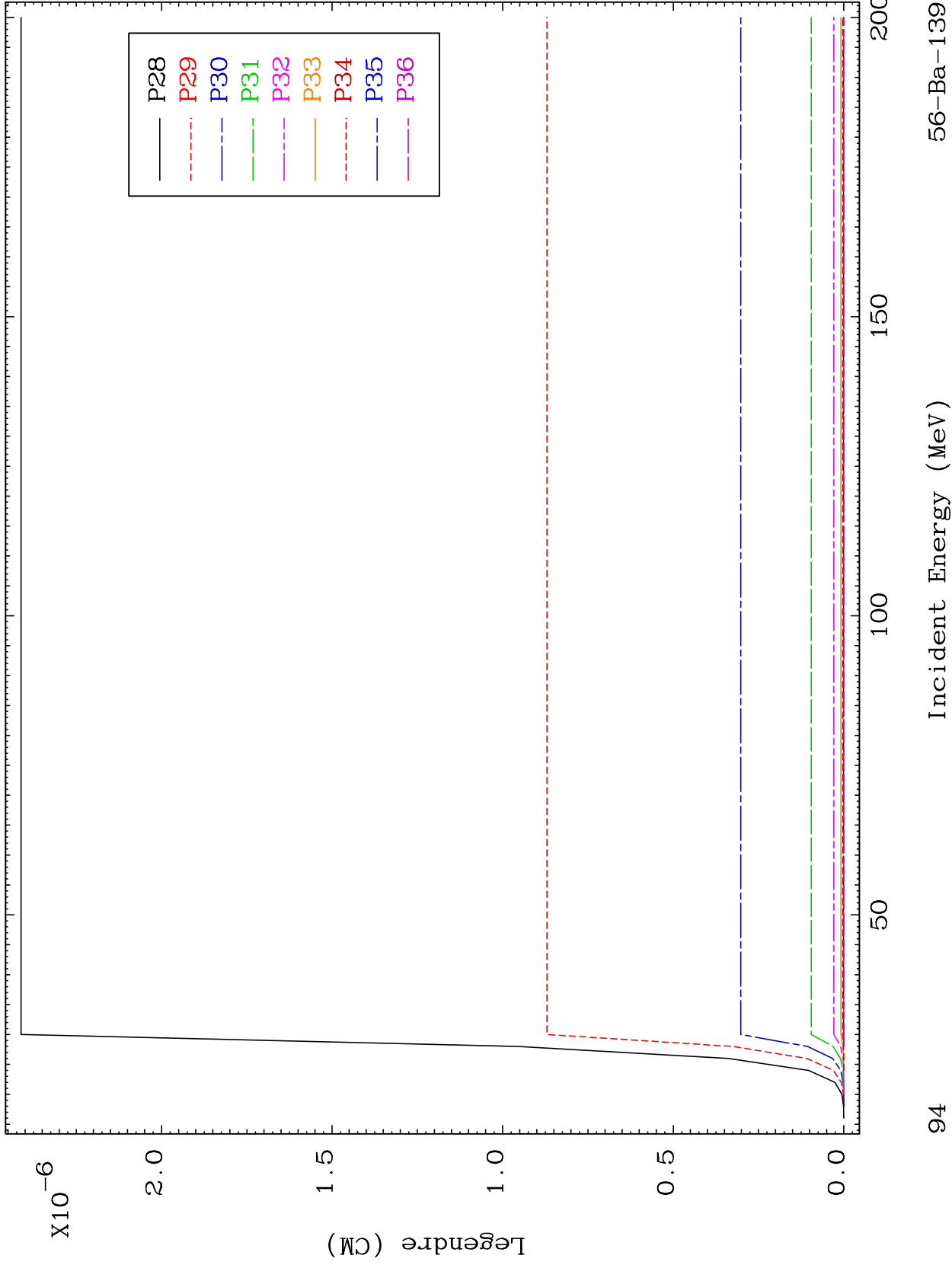
56-Ba-139

Incident Energy (MeV)

91



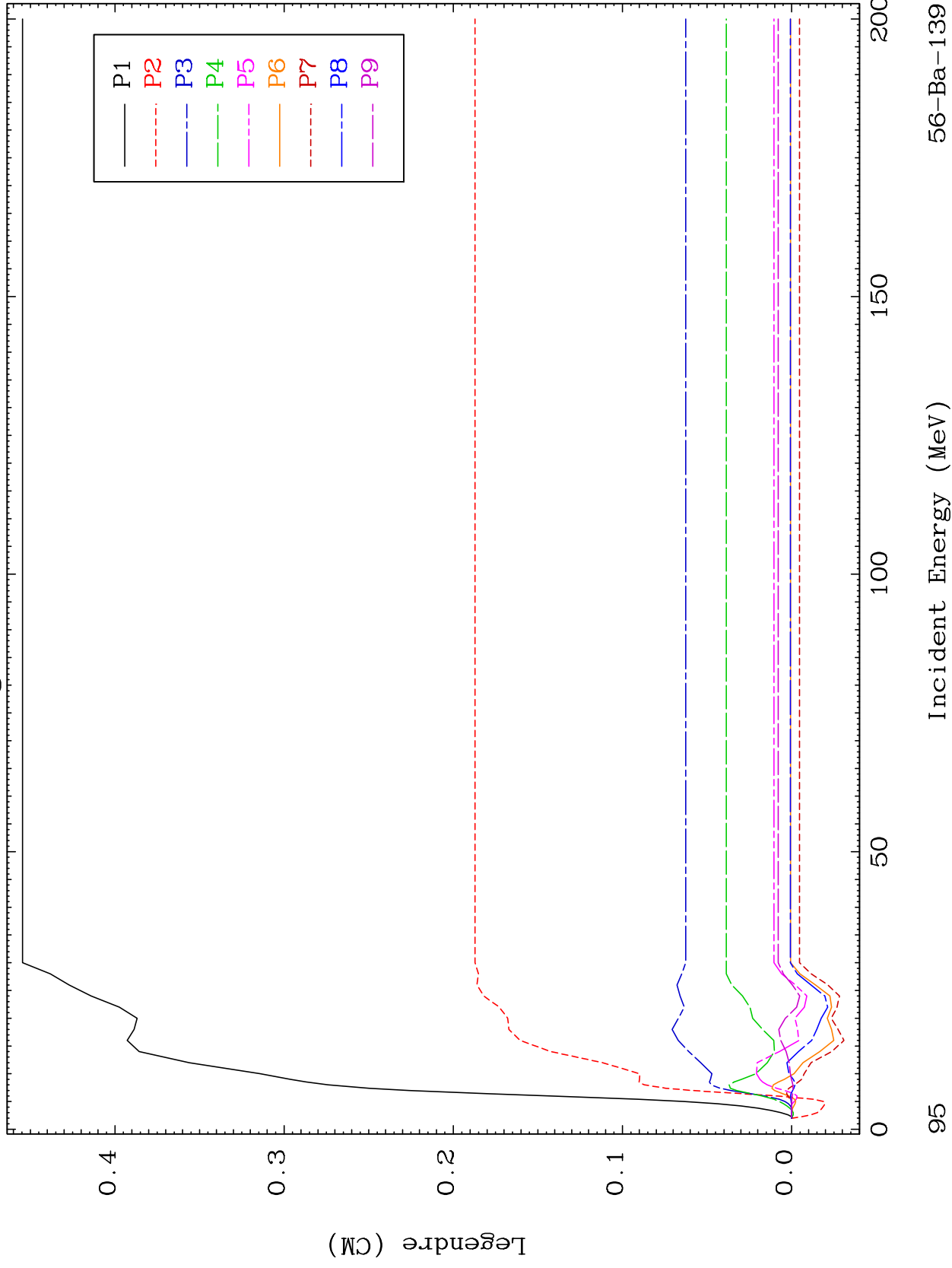




MAT 5652

1.949 MeV (n,n') Level
Legendre Coefficients

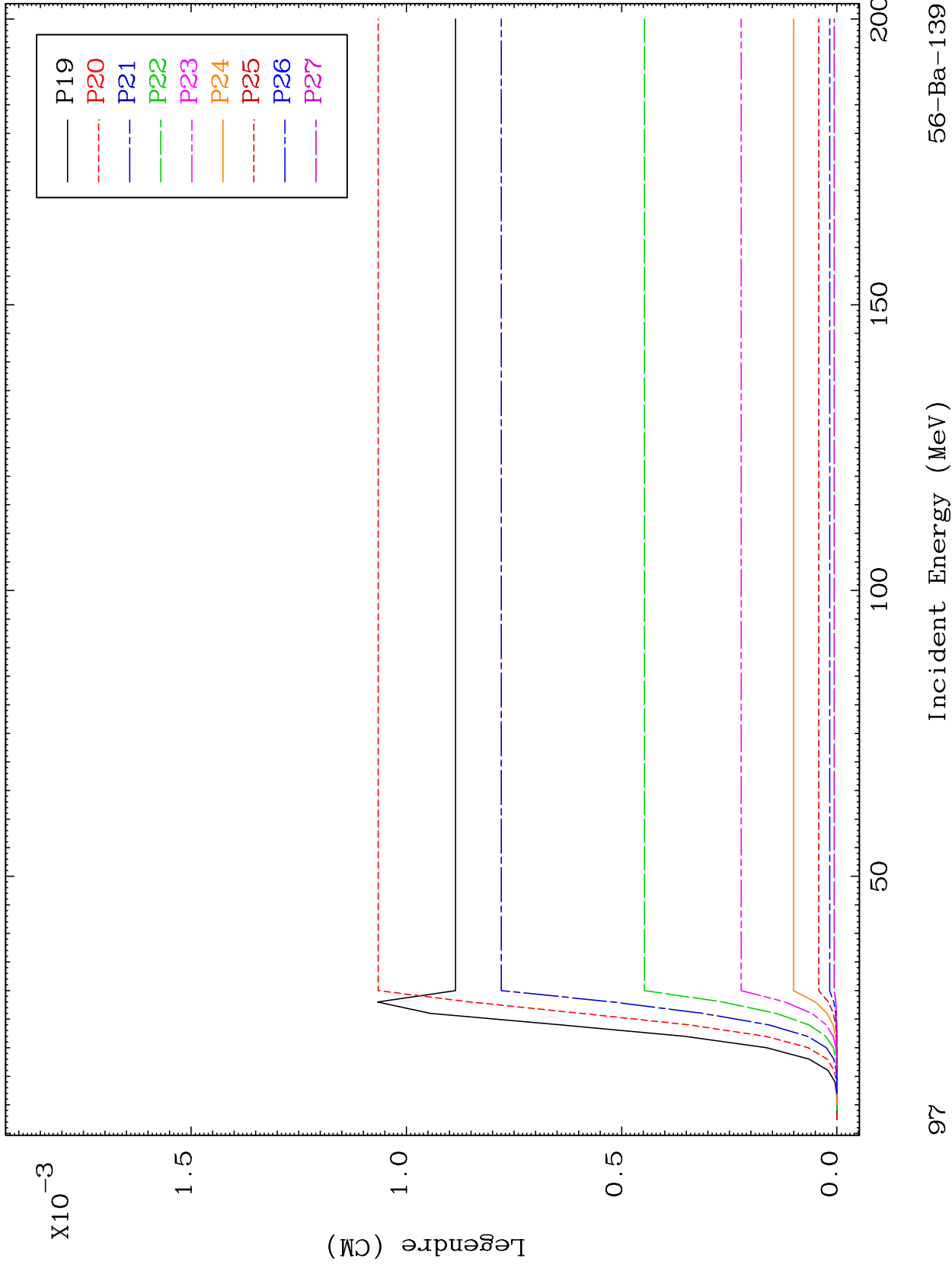
56-Ba-139



MAT 5652

1.949 MeV (n,n') Level
Legendre Coefficients

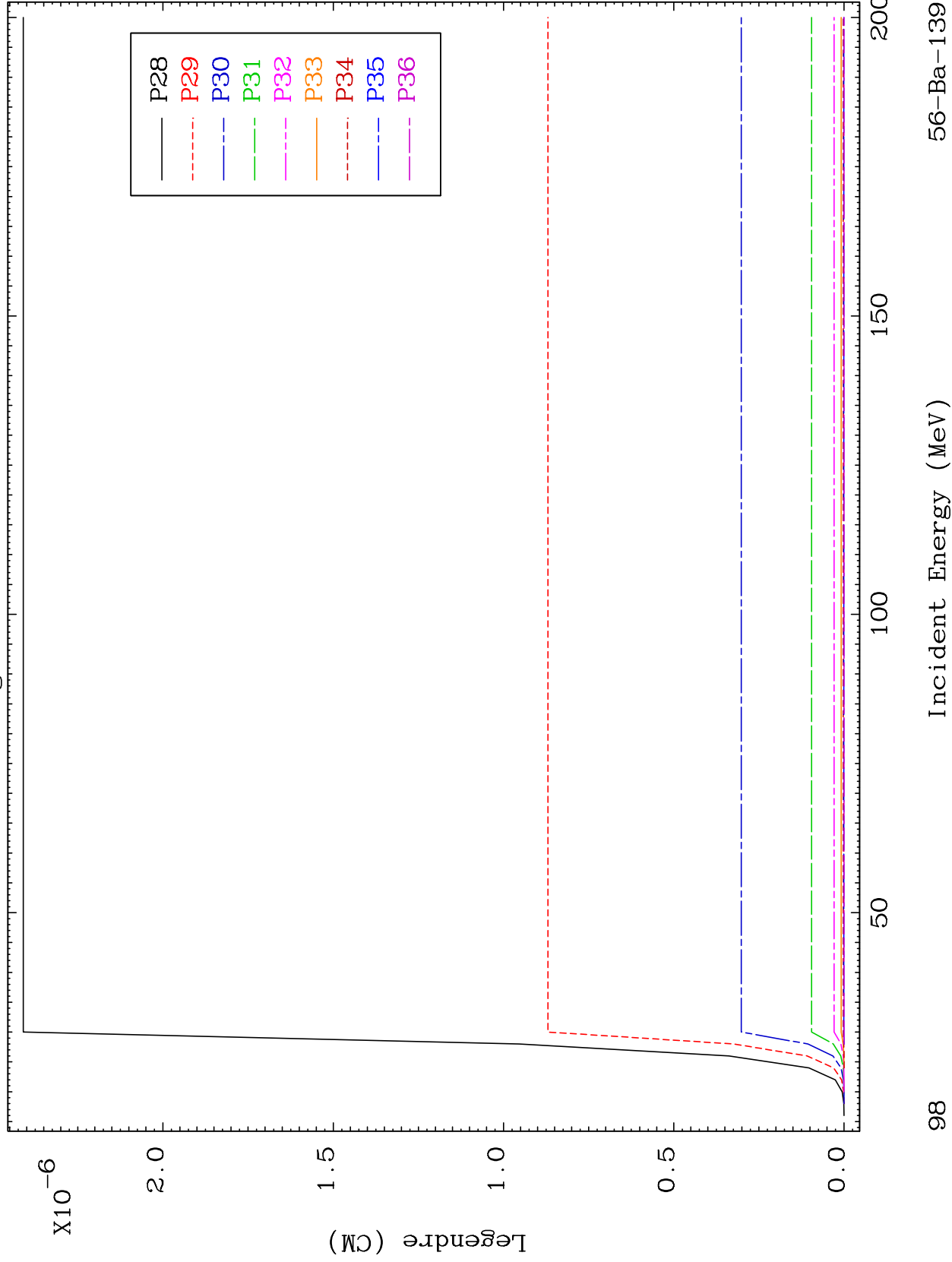
56-Ba-139



MAT 5652

1.949 MeV (n, n') Level
Legendre Coefficients

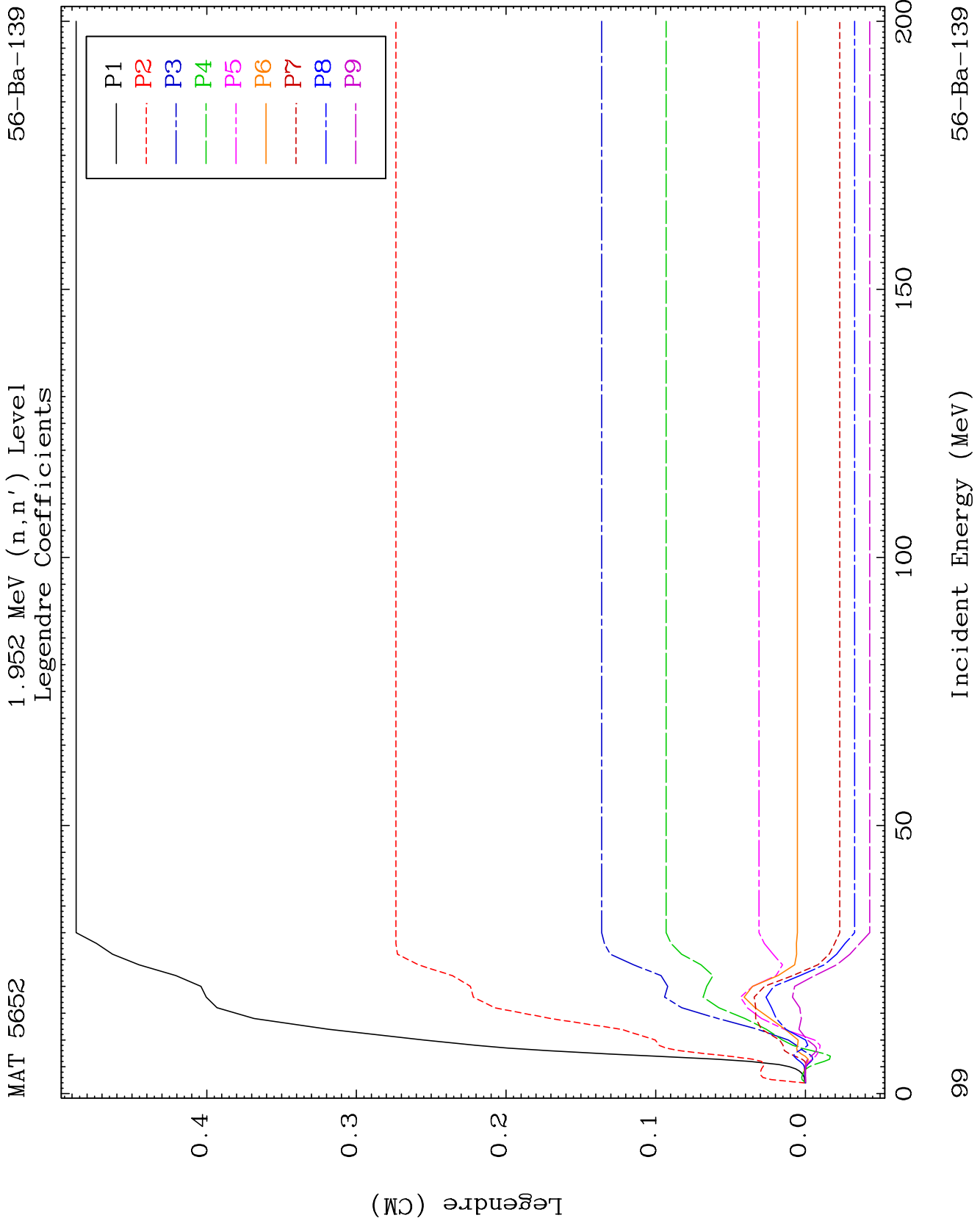
56-Ba-139



98

Incident Energy (MeV)

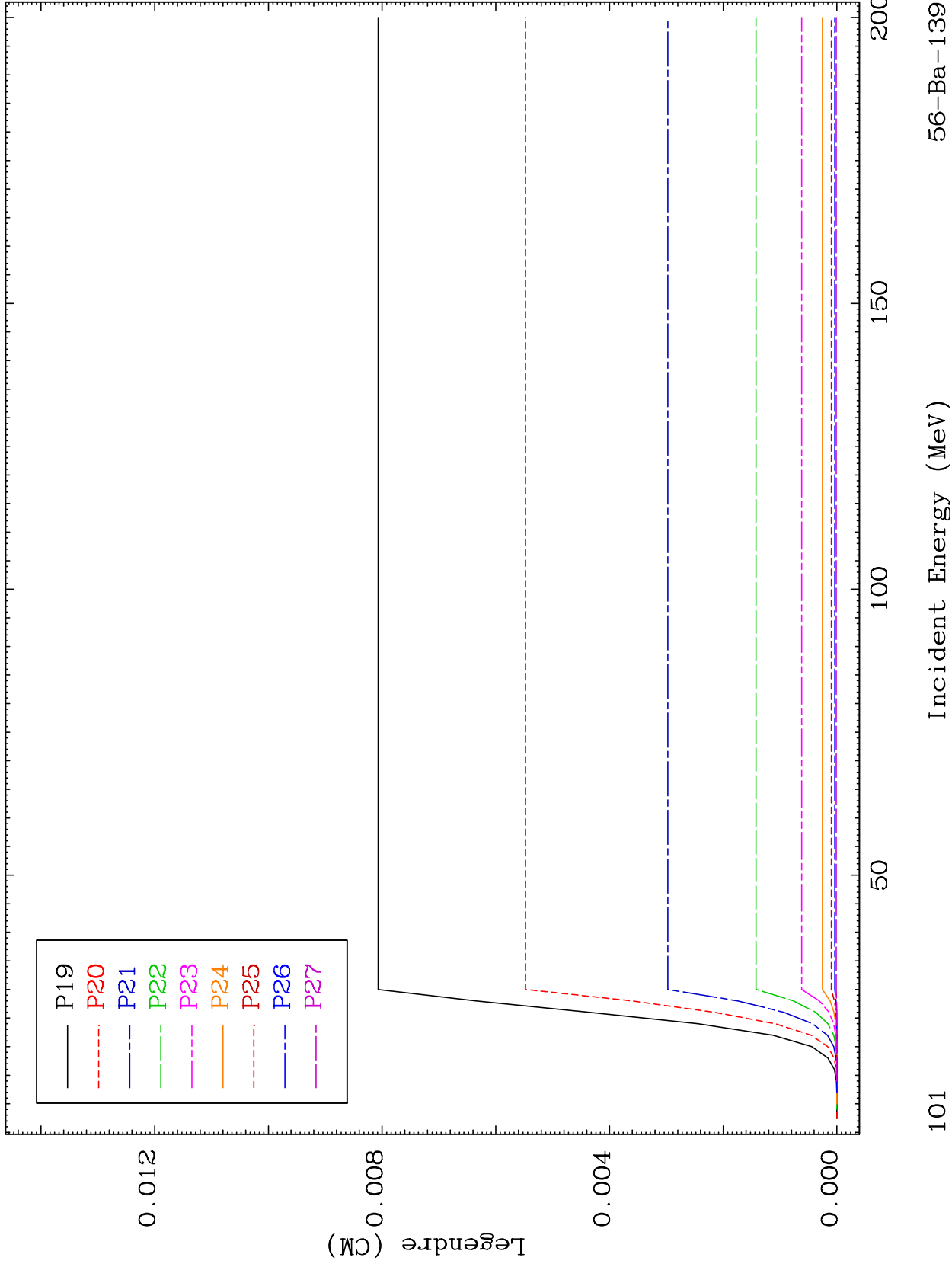
56-Ba-139



MAT 5652

1.952 MeV (n,n') Level
Legendre Coefficients

56-Ba-139



101

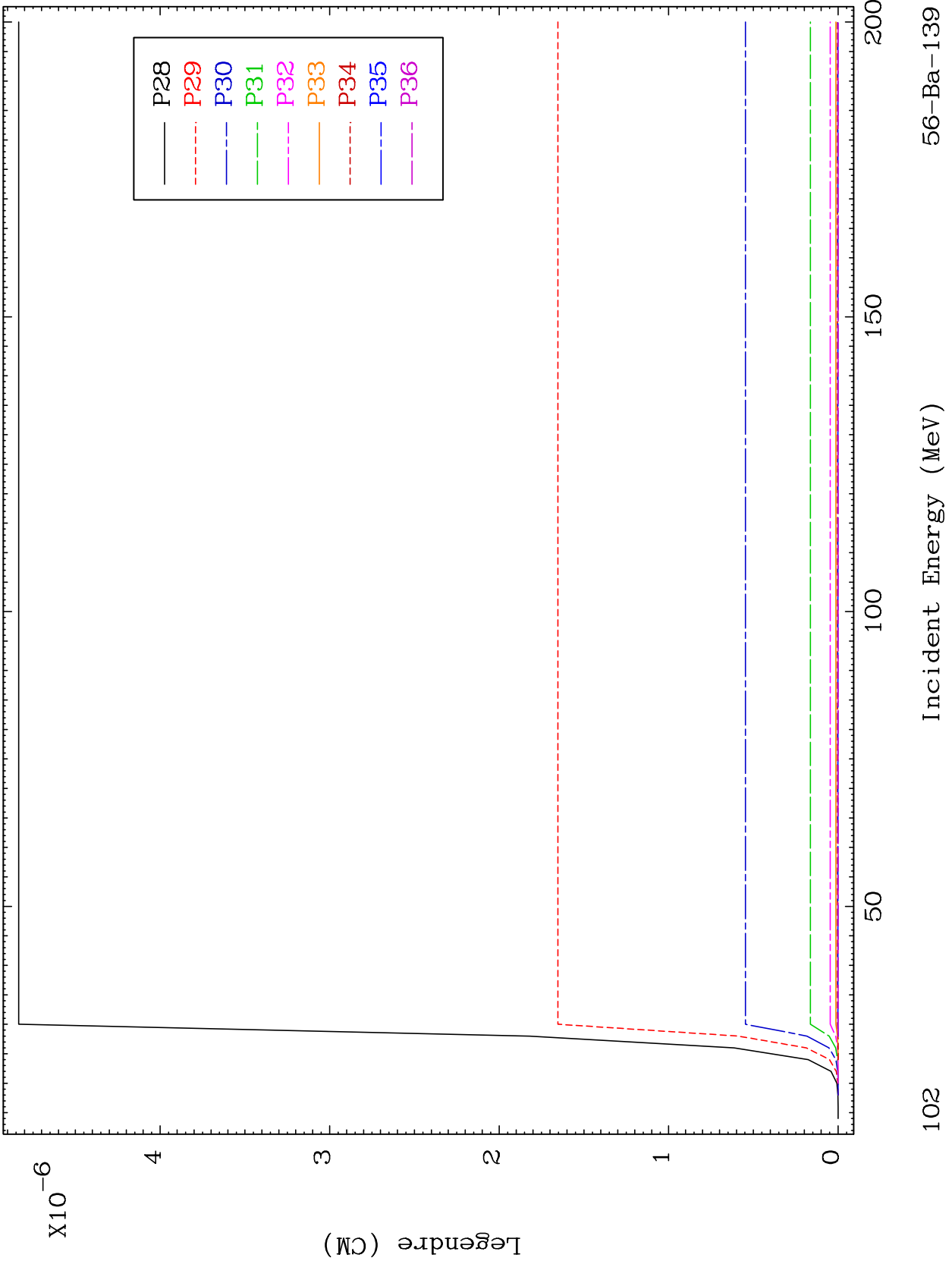
Incident Energy (MeV)

56-Ba-139

MAT 5652

1.952 MeV (n,n') Level
Legendre Coefficients

56-Ba-139



56-Ba-139

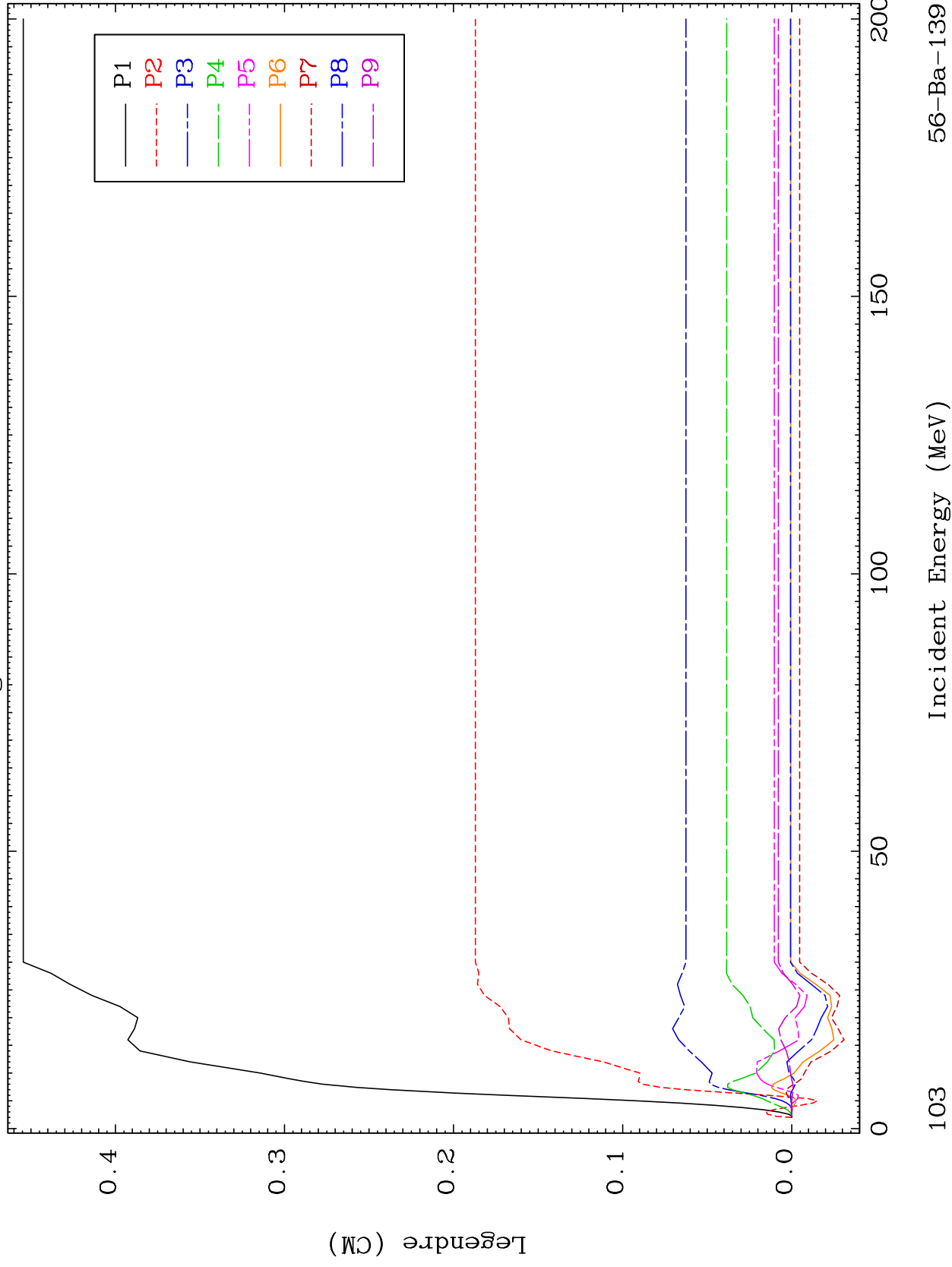
Incident Energy (MeV)

102

MAT 5652

1.977 MeV (n,n') Level
Legendre Coefficients

56-Ba-139



56-Ba-139

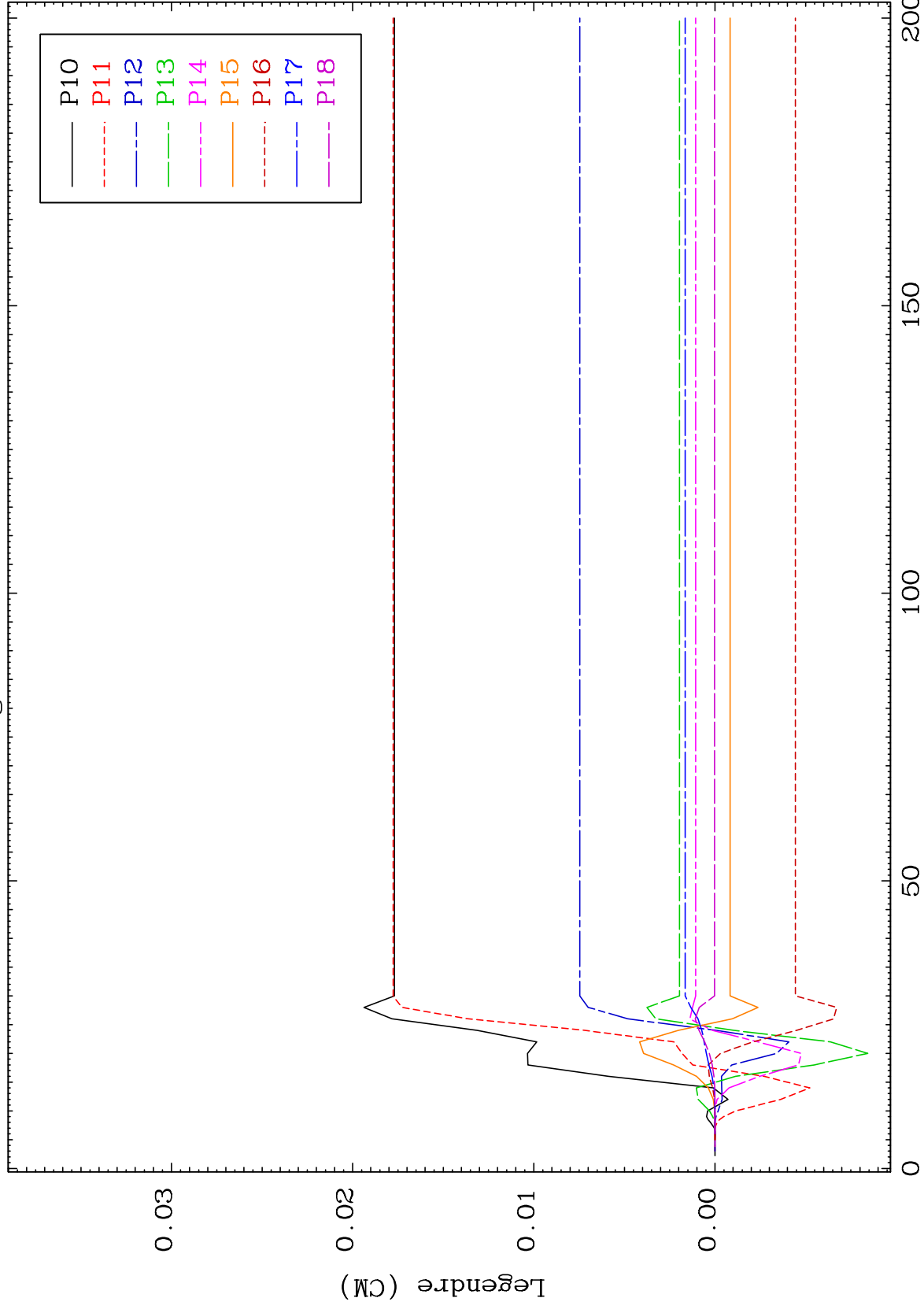
Incident Energy (MeV)

103

MAT 5652

1.977 MeV (n,n') Level
Legendre Coefficients

56-Ba-139



104

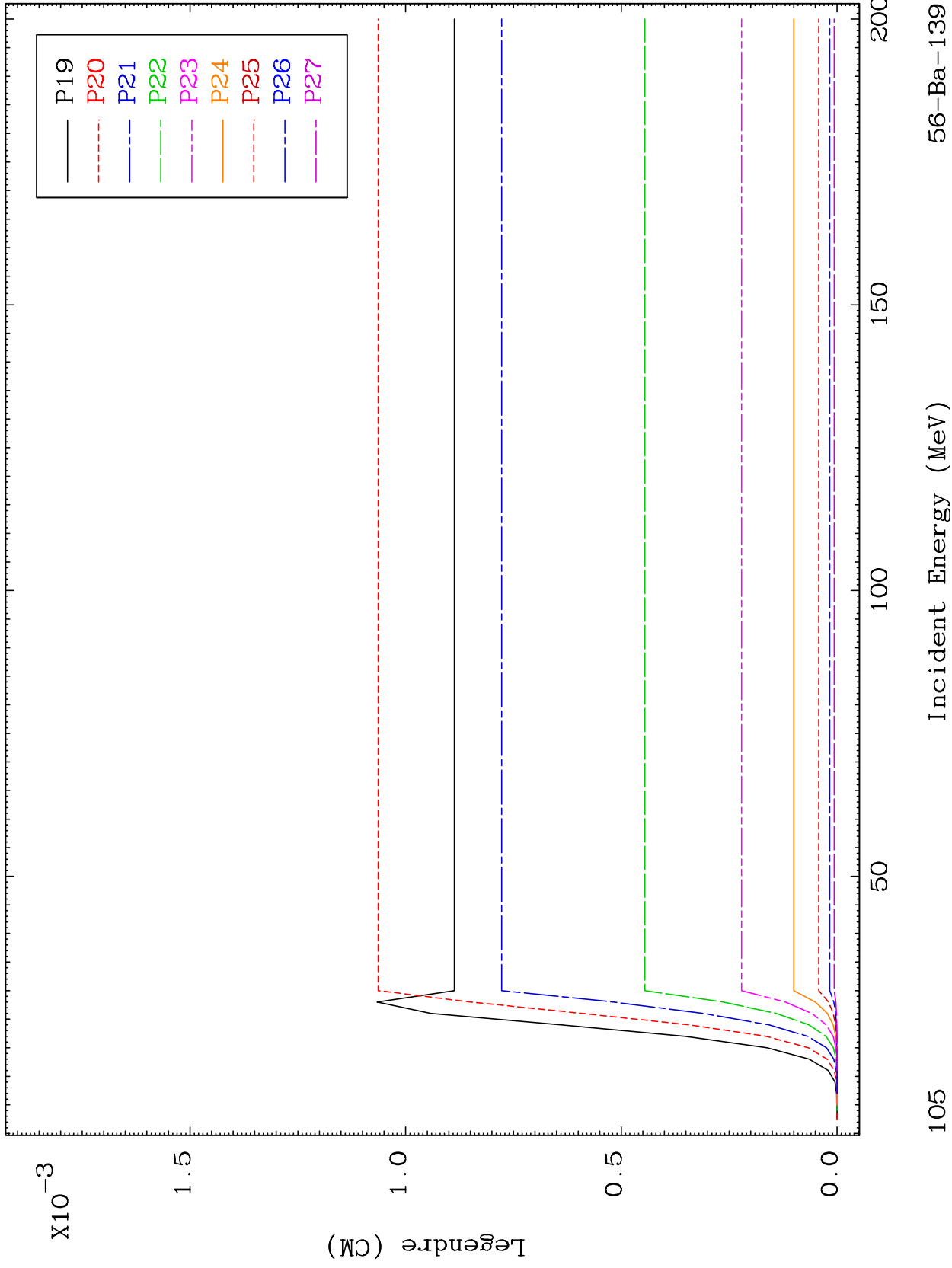
Incident Energy (MeV)

56-Ba-139

MAT 5652

1.977 MeV (n,n') Level
Legendre Coefficients

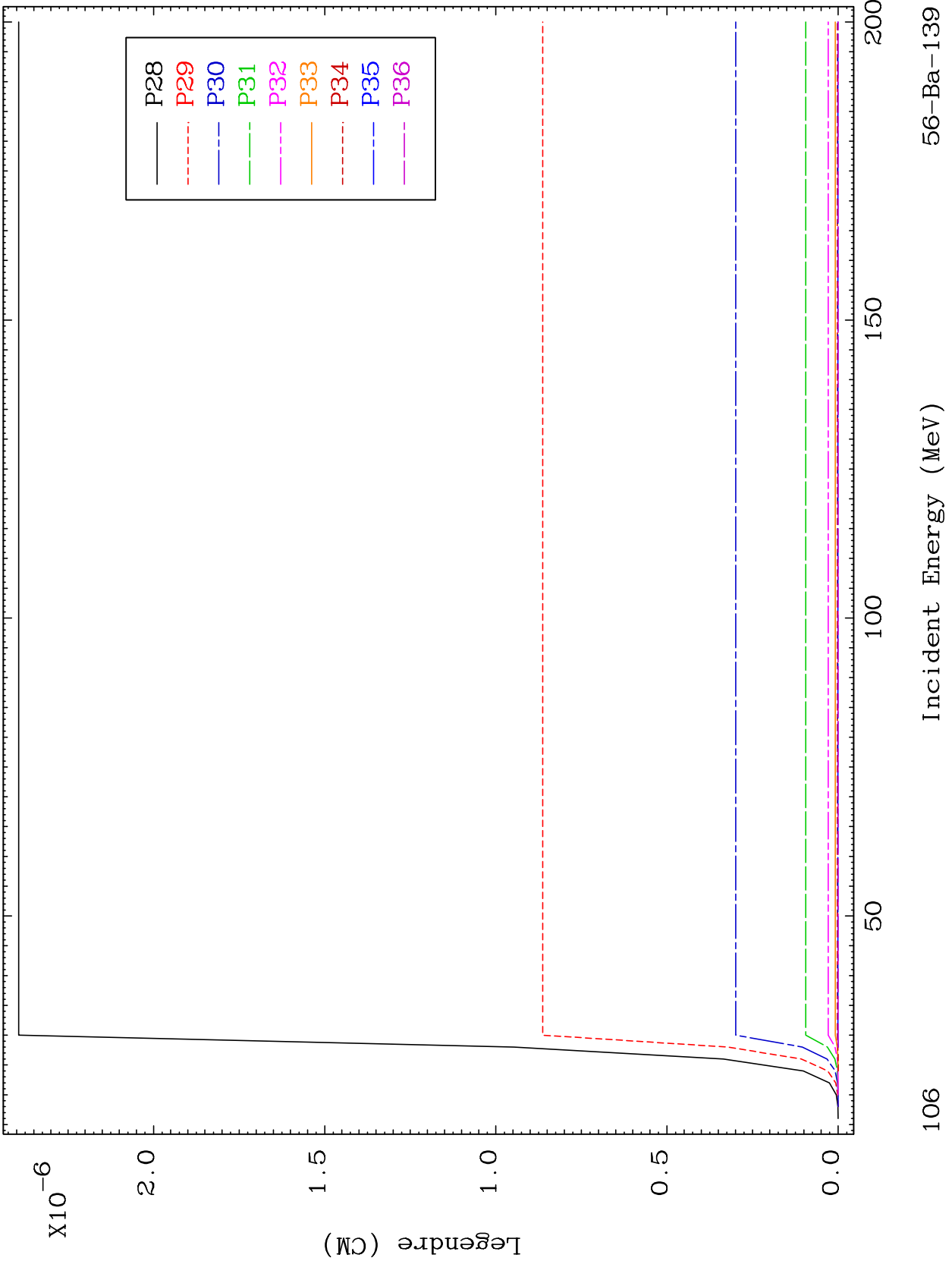
56-Ba-139



MAT 5652

1.977 MeV (n, n') Level
Legendre Coefficients

56-Ba-139



106

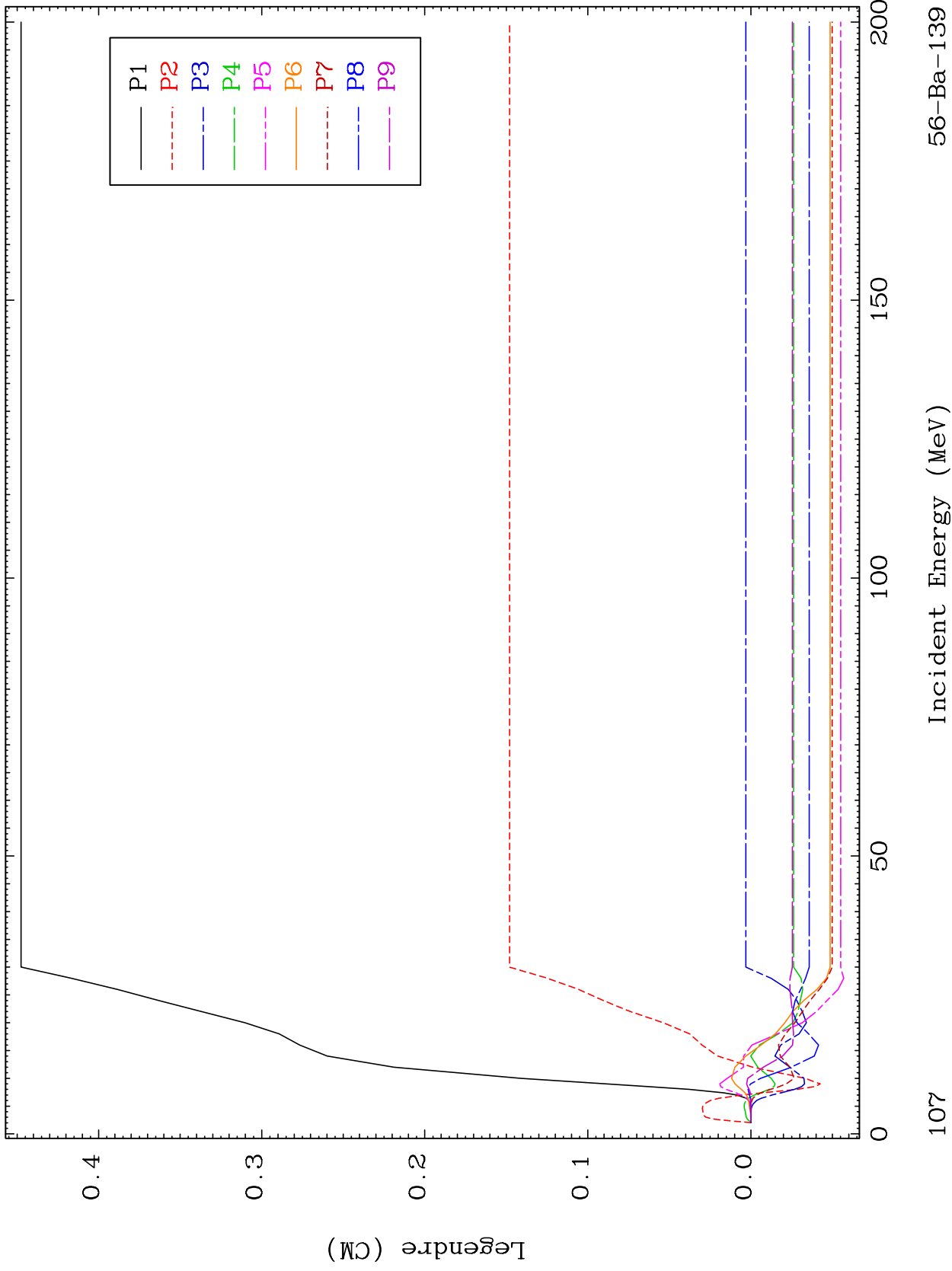
Incident Energy (MeV)

56-Ba-139

MAT 5652

1.998 MeV (n,n') Level
Legendre Coefficients

56-Ba-139



56-Ba-139

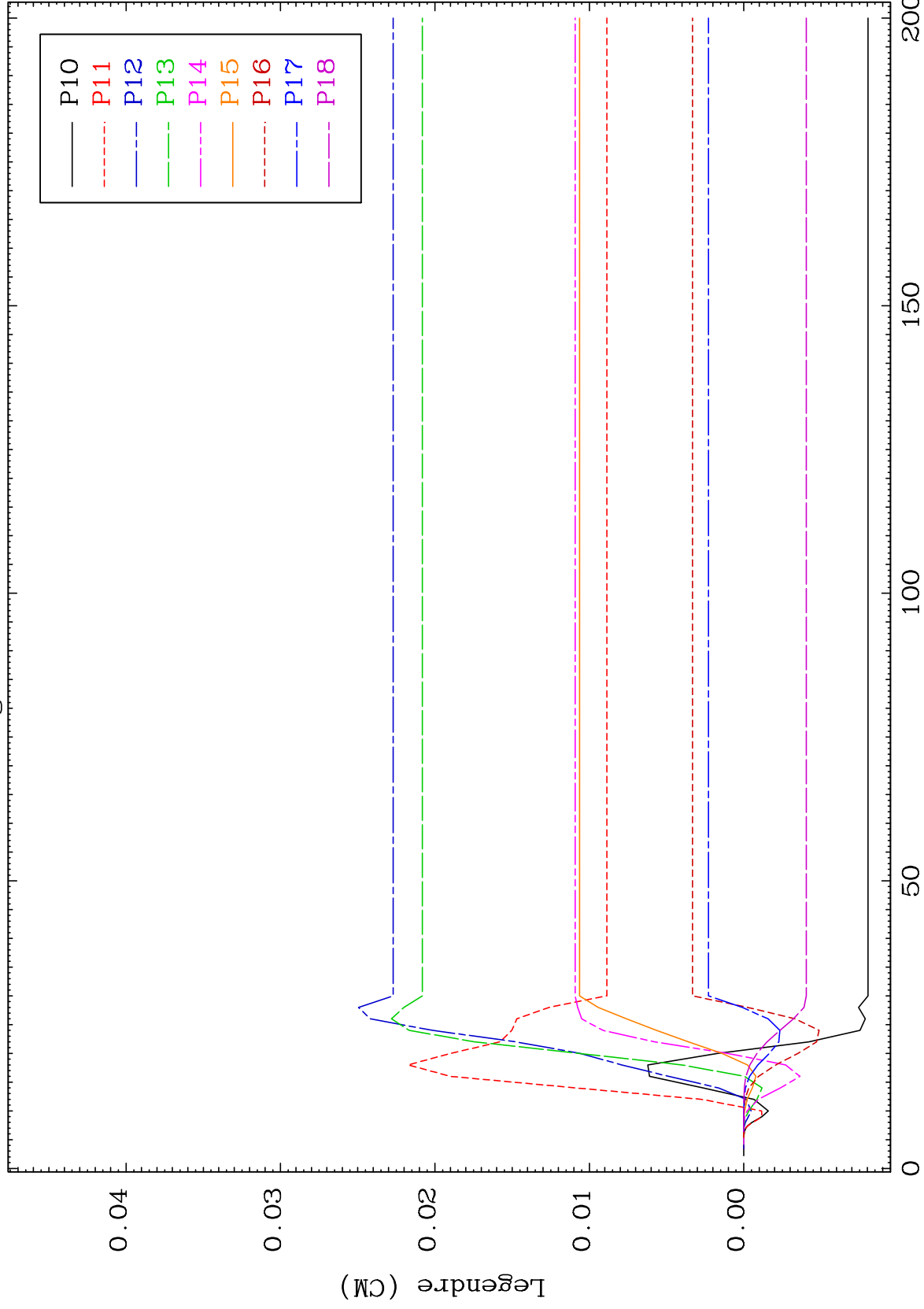
Incident Energy (MeV)

107

MAT 5652

1.998 MeV (n,n') Level
Legendre Coefficients

56-Ba-139



108

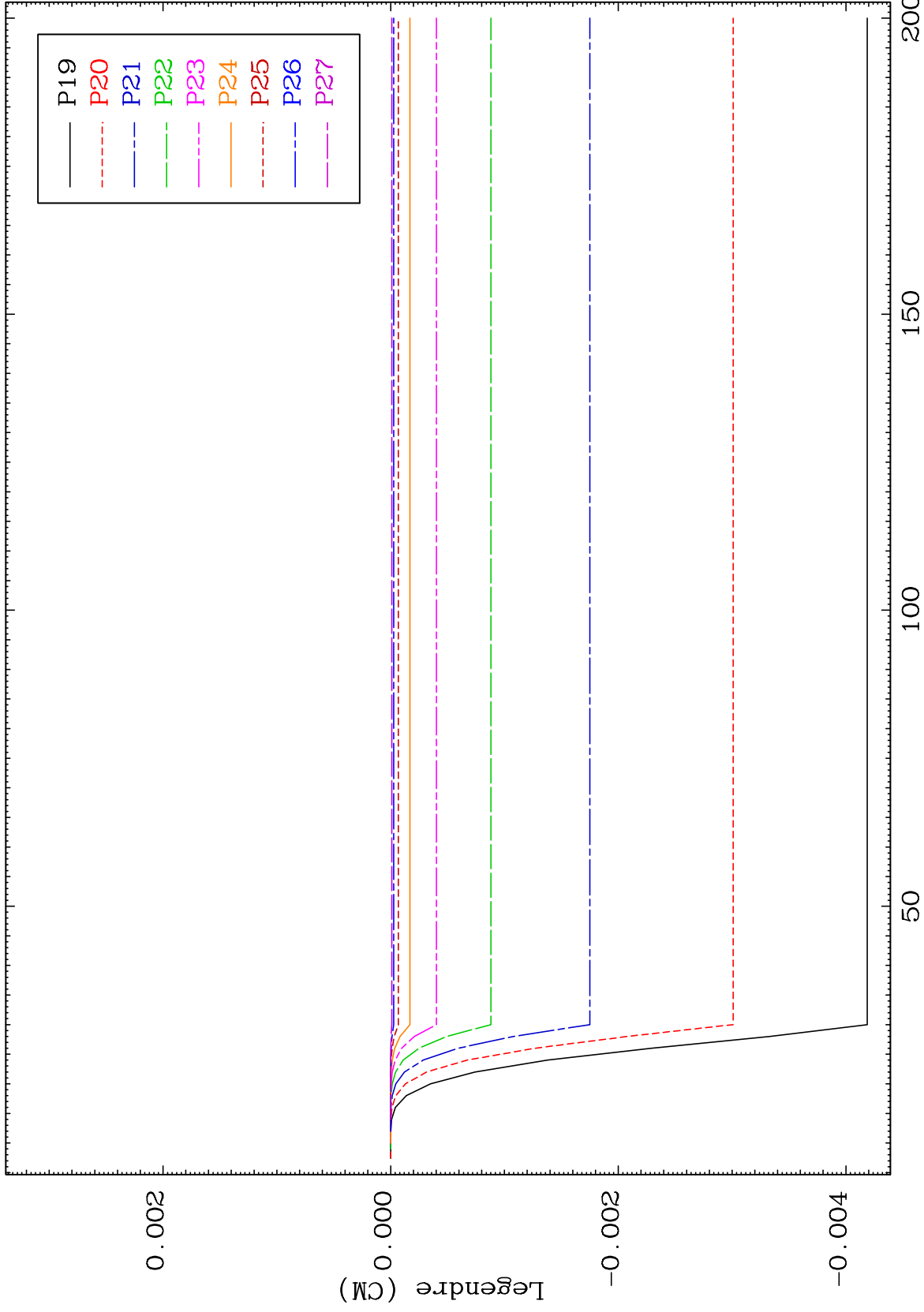
Incident Energy (MeV)

56-Ba-139

MAT 5652

1.998 MeV (n,n') Level
Legendre Coefficients

56-Ba-139



109

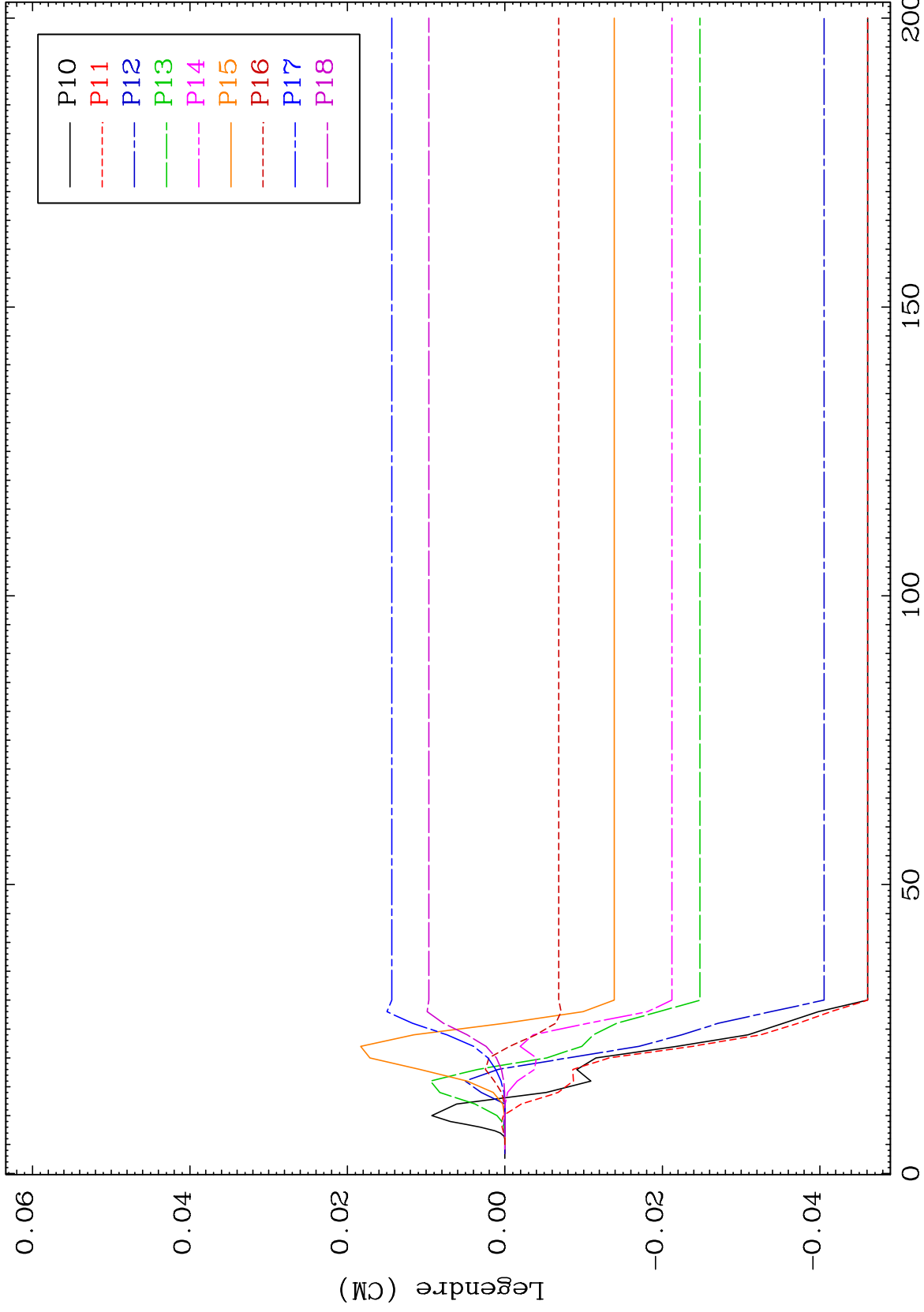
Incident Energy (MeV)

56-Ba-139

MAT 5652

2.021 MeV (n,n') Level
Legendre Coefficients

56-Ba-139



112

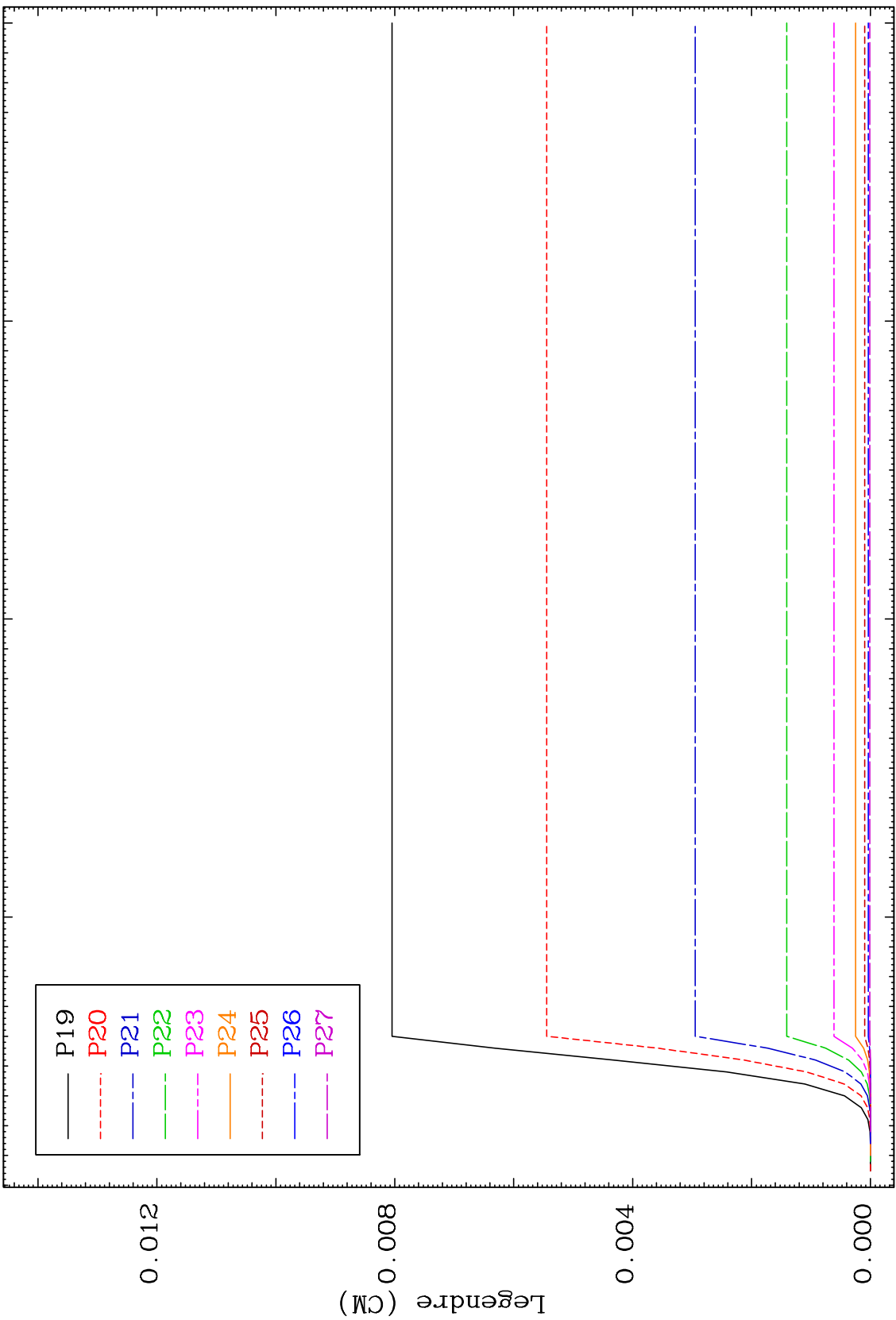
Incident Energy (MeV)

56-Ba-139

MAT 5652

2.021 MeV (n,n') Level
Legendre Coefficients

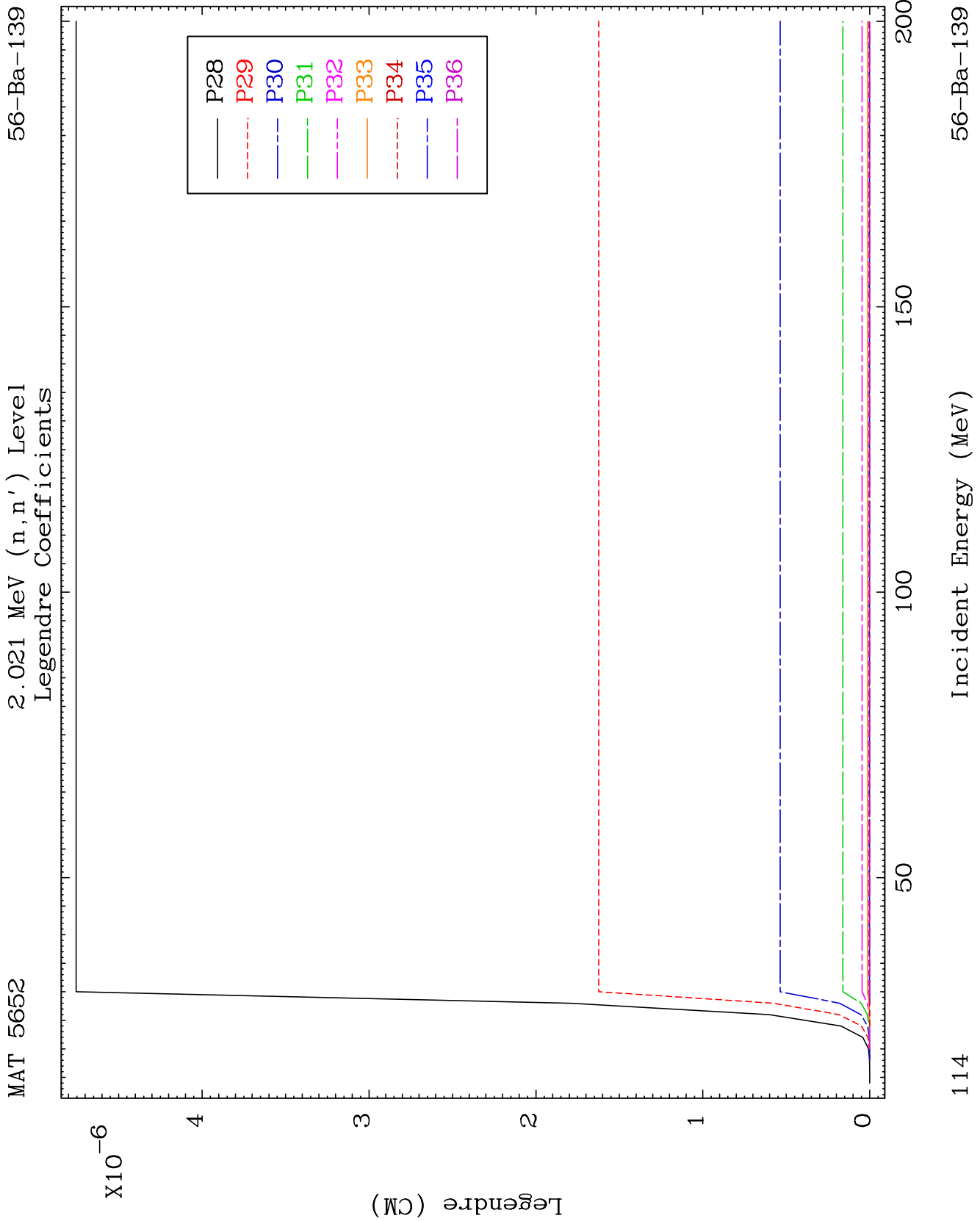
56-Ba-139

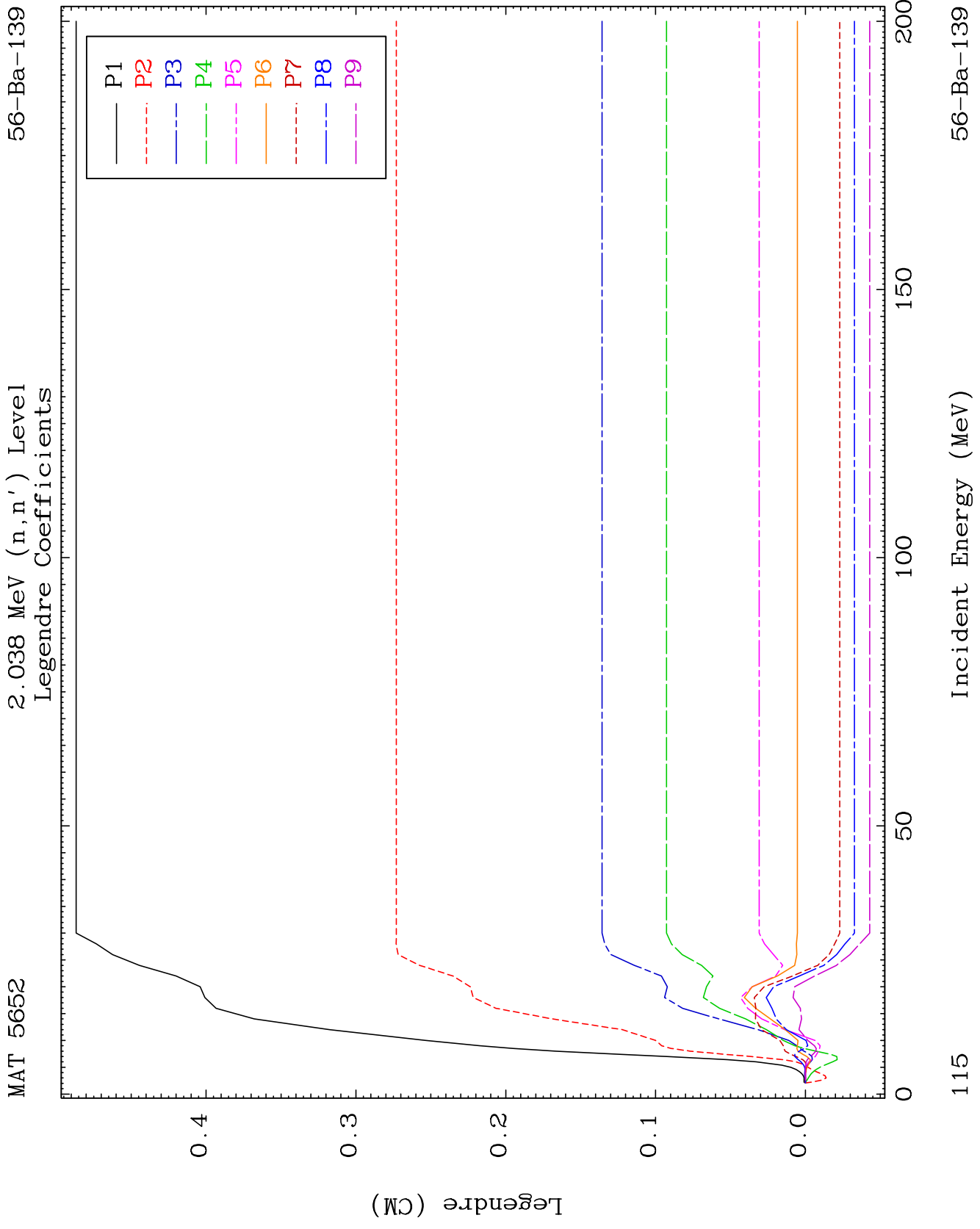


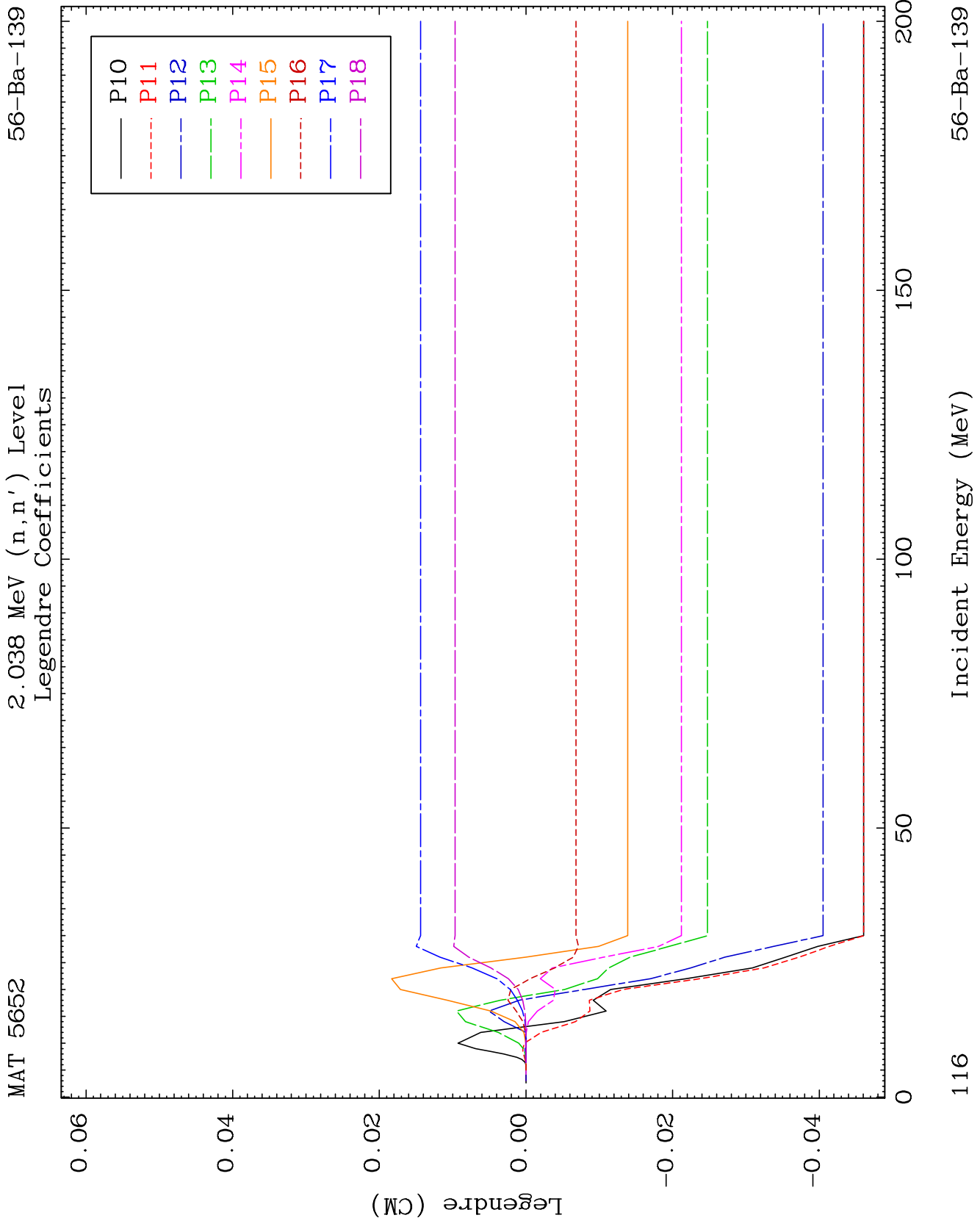
113

Incident Energy (MeV)

56-Ba-139



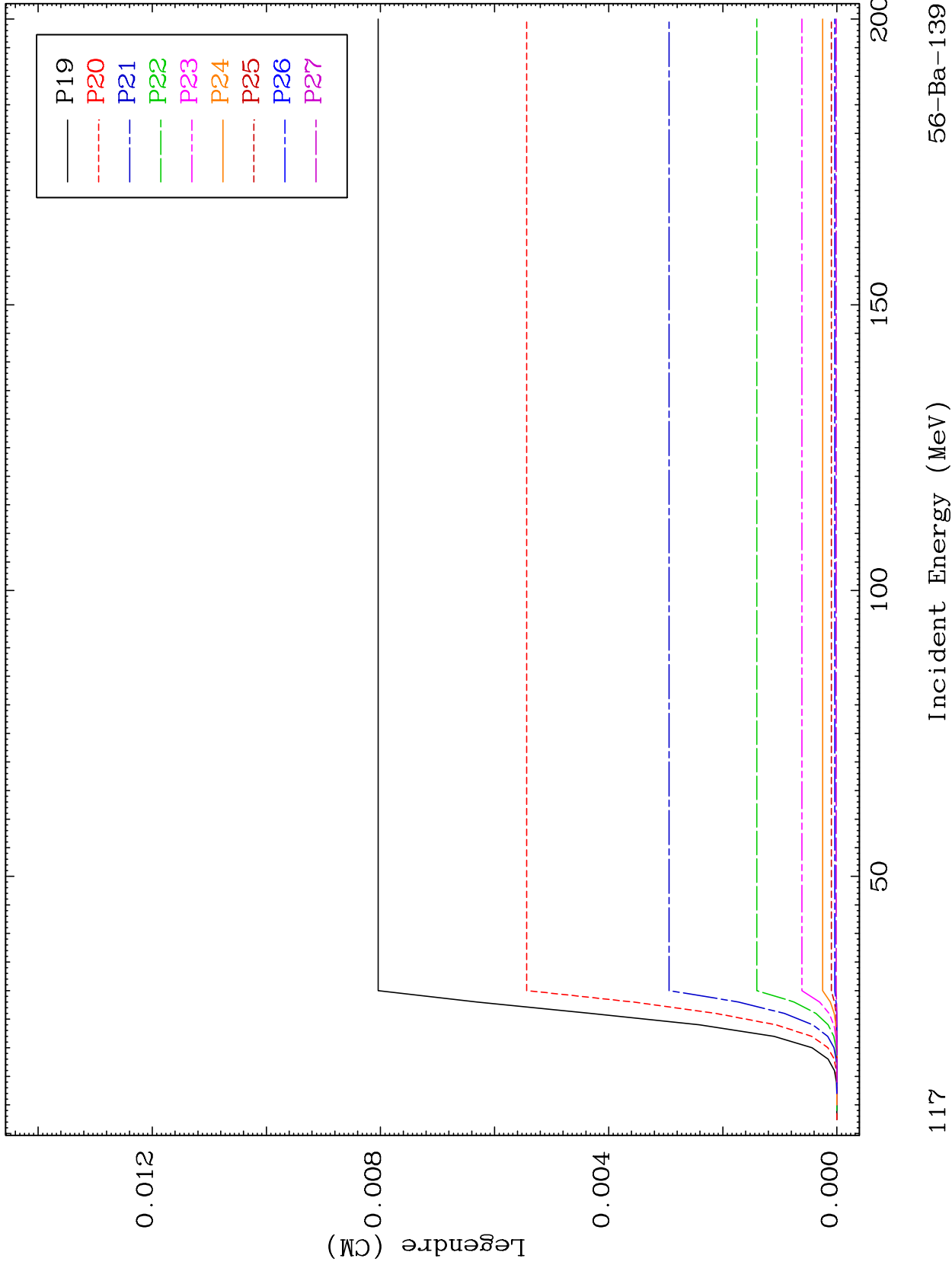




MAT 5652

2.038 MeV (n,n') Level
Legendre Coefficients

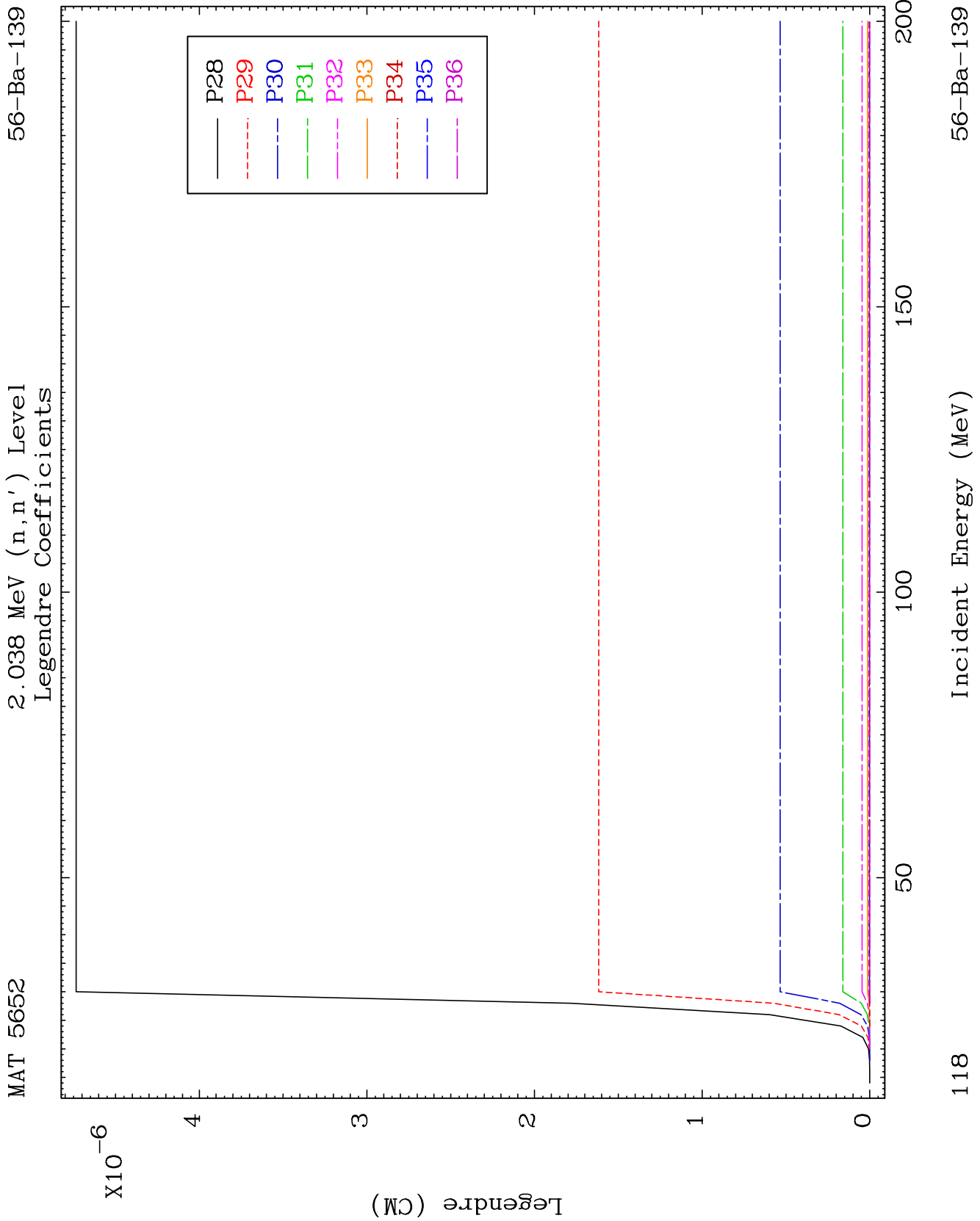
56-Ba-139



117

Incident Energy (MeV)

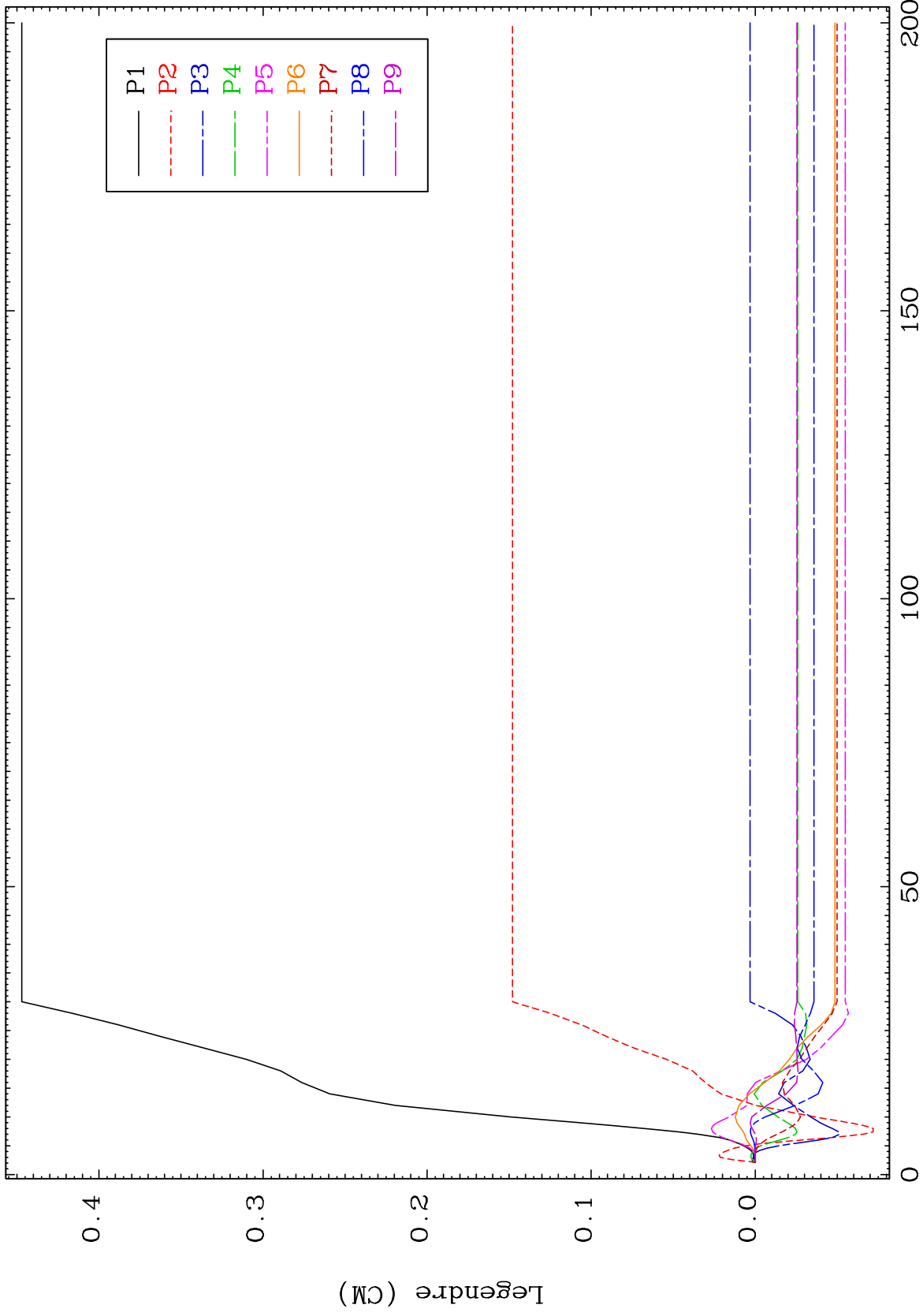
56-Ba-139



MAT 5652

2.079 MeV (n,n') Level
Legendre Coefficients

56-Ba-139



119

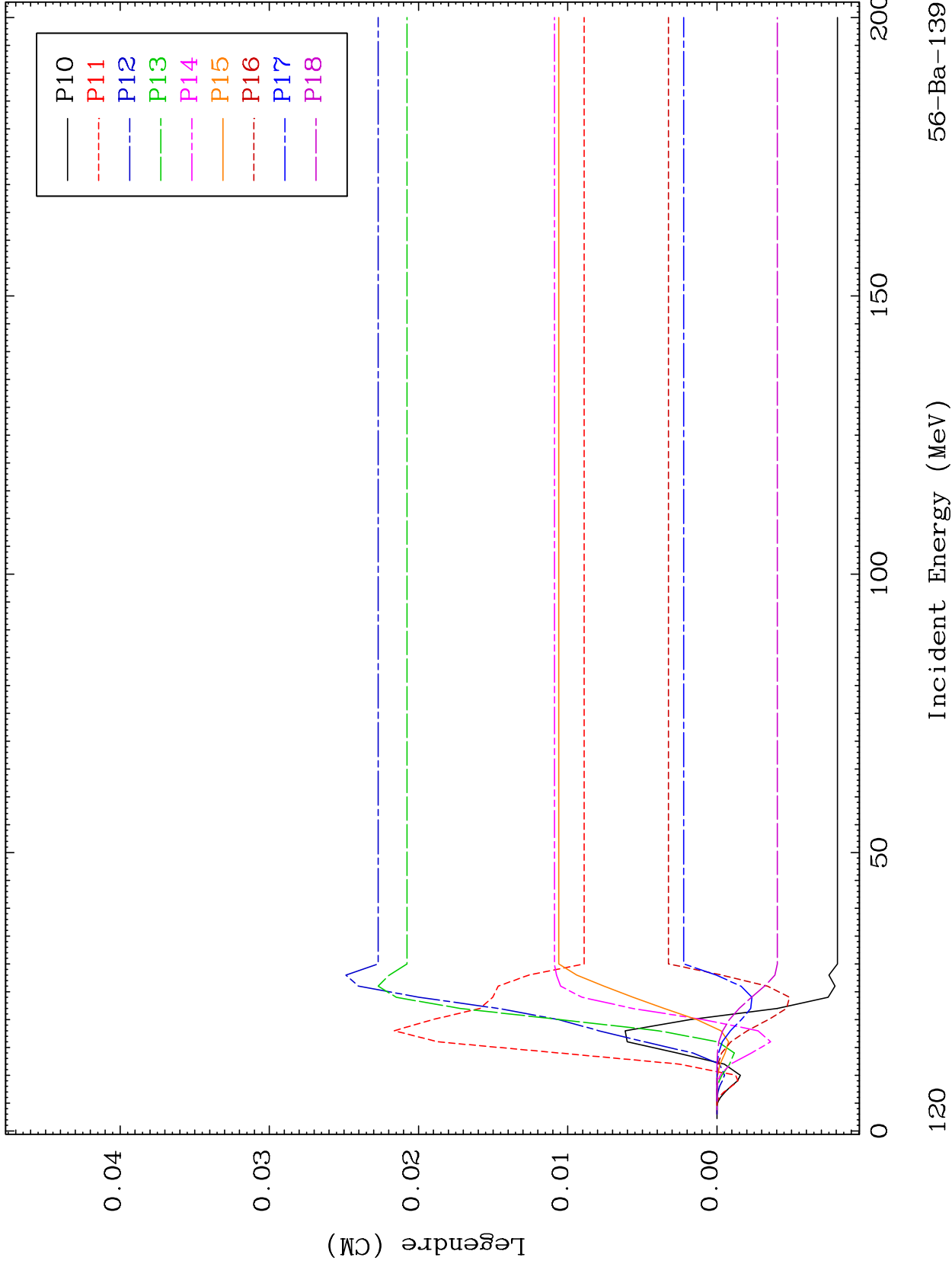
Incident Energy (MeV)

56-Ba-139

MAT 5652

2.079 MeV (n,n') Level
Legendre Coefficients

56-Ba-139

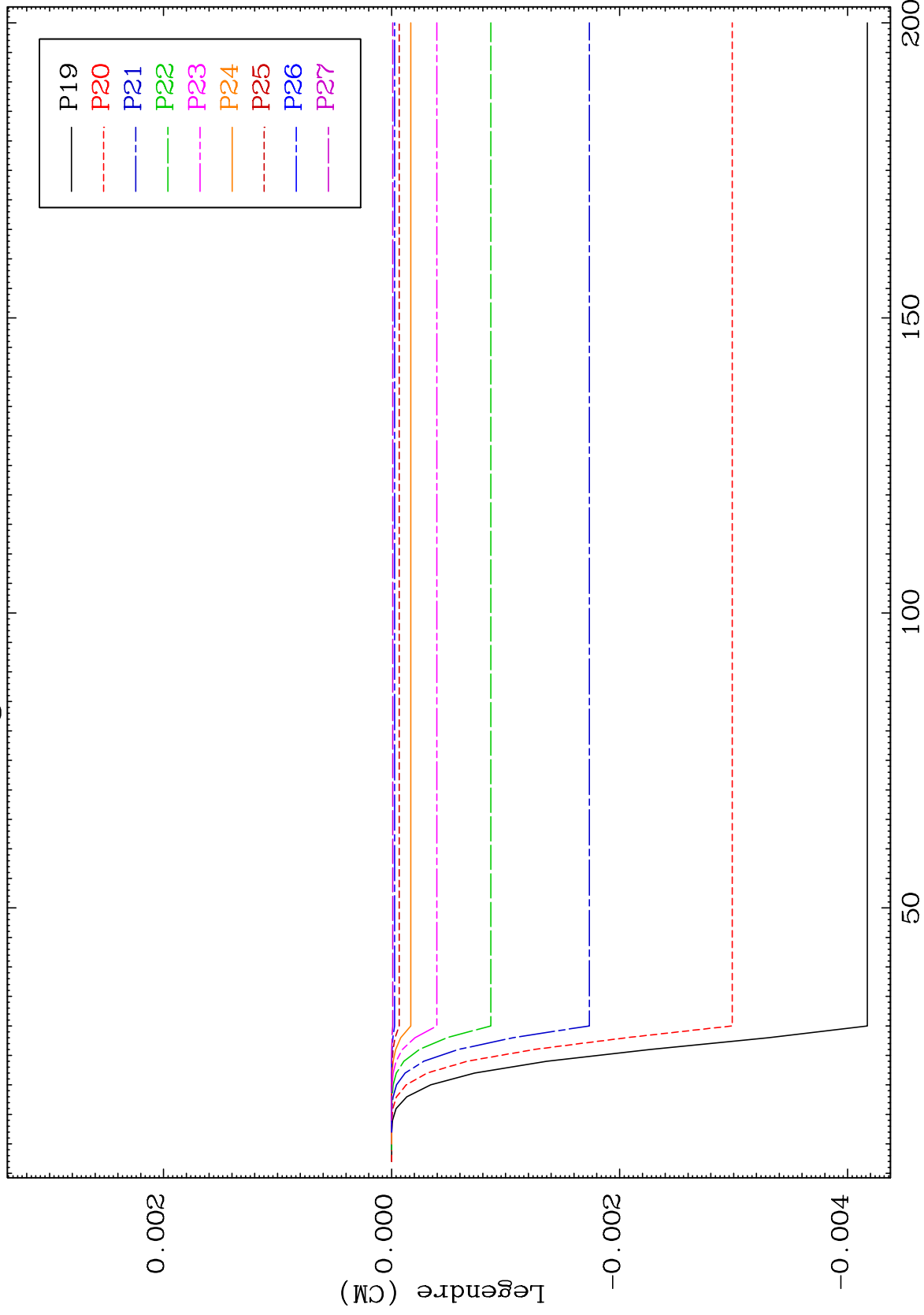


56-Ba-139

MAT 5652

2.079 MeV (n,n') Level
Legendre Coefficients

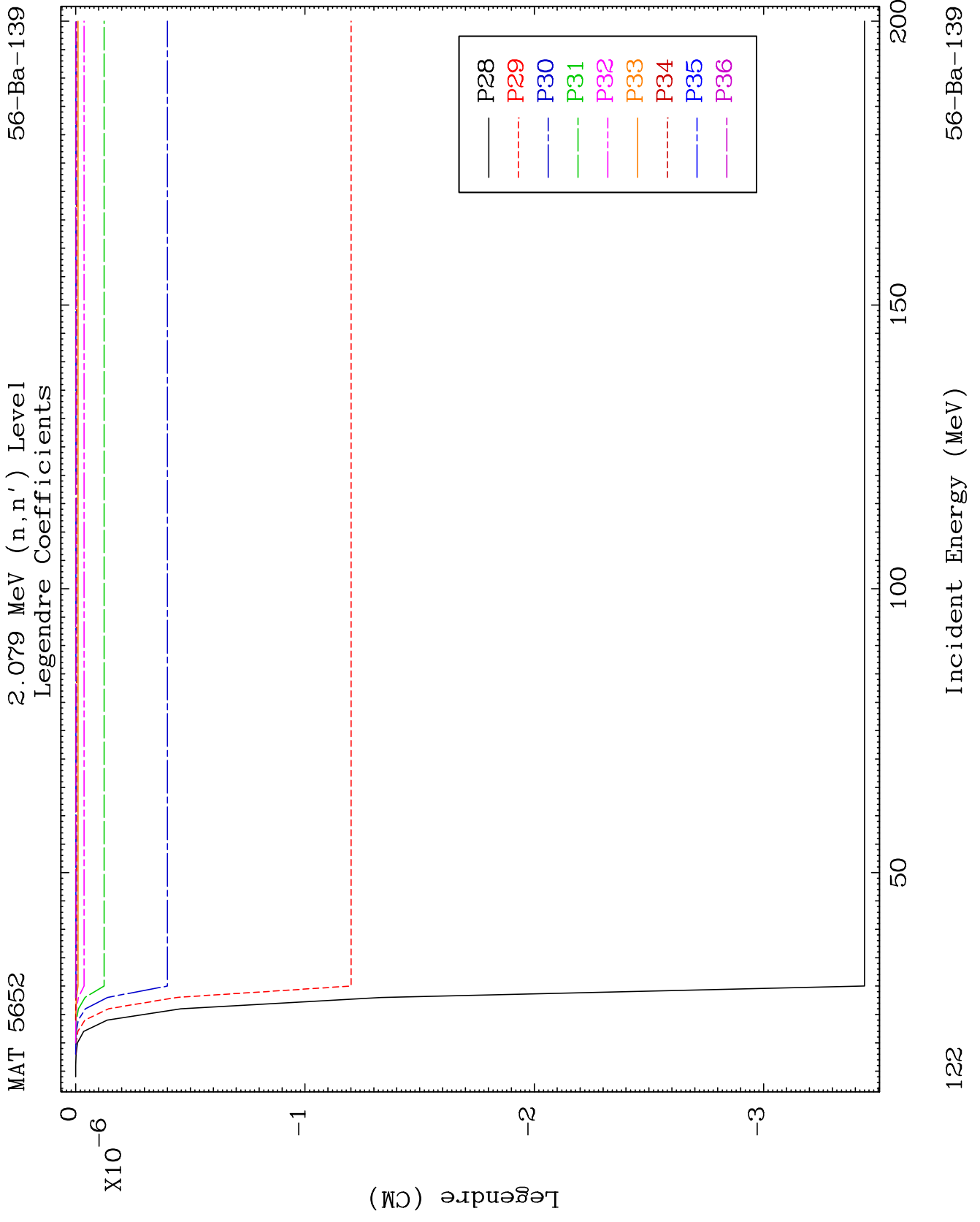
56-Ba-139



121

Incident Energy (MeV)

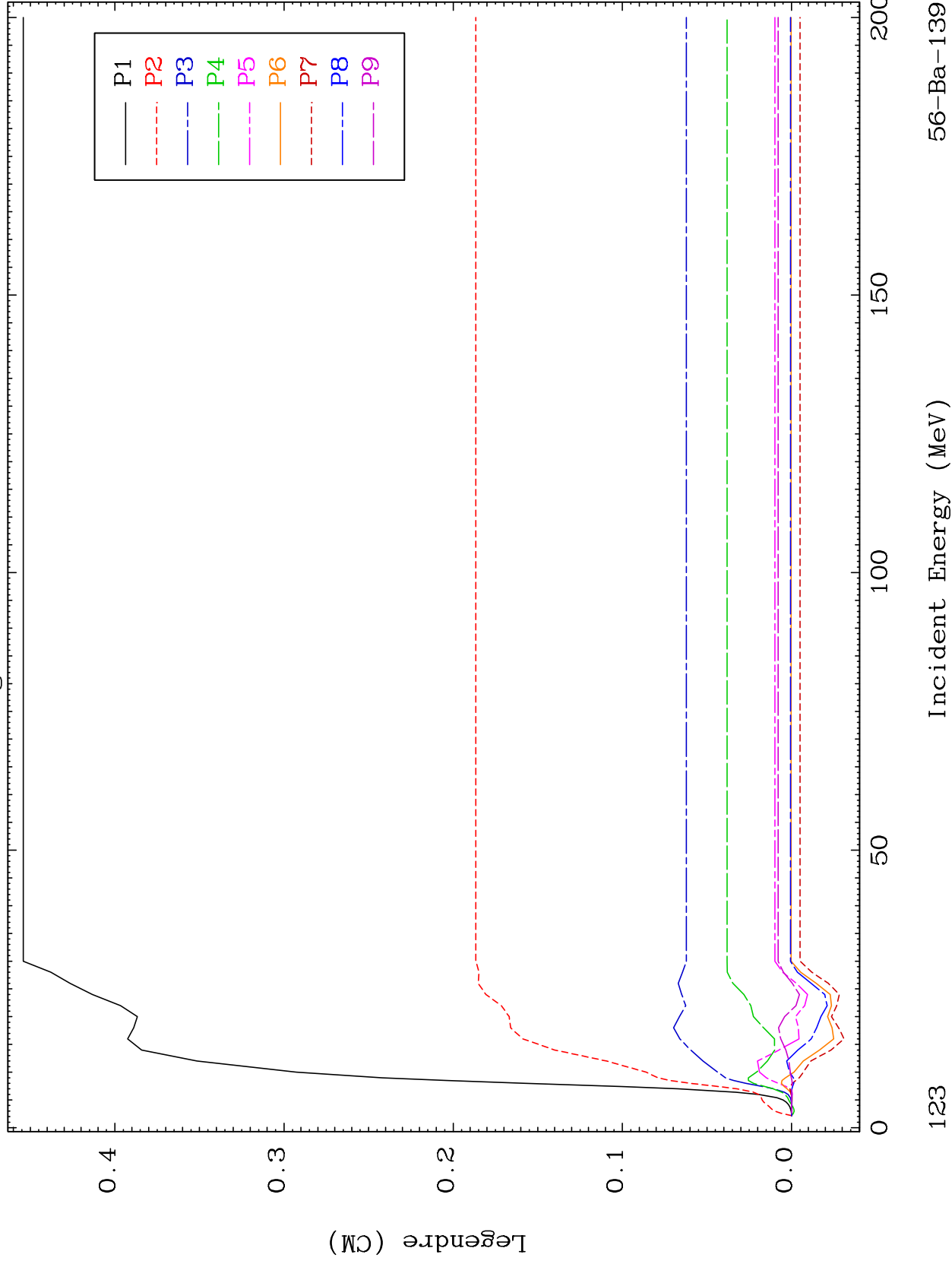
56-Ba-139



MAT 5652

2.090 MeV (n,n') Level
Legendre Coefficients

56-Ba-139



56-Ba-139

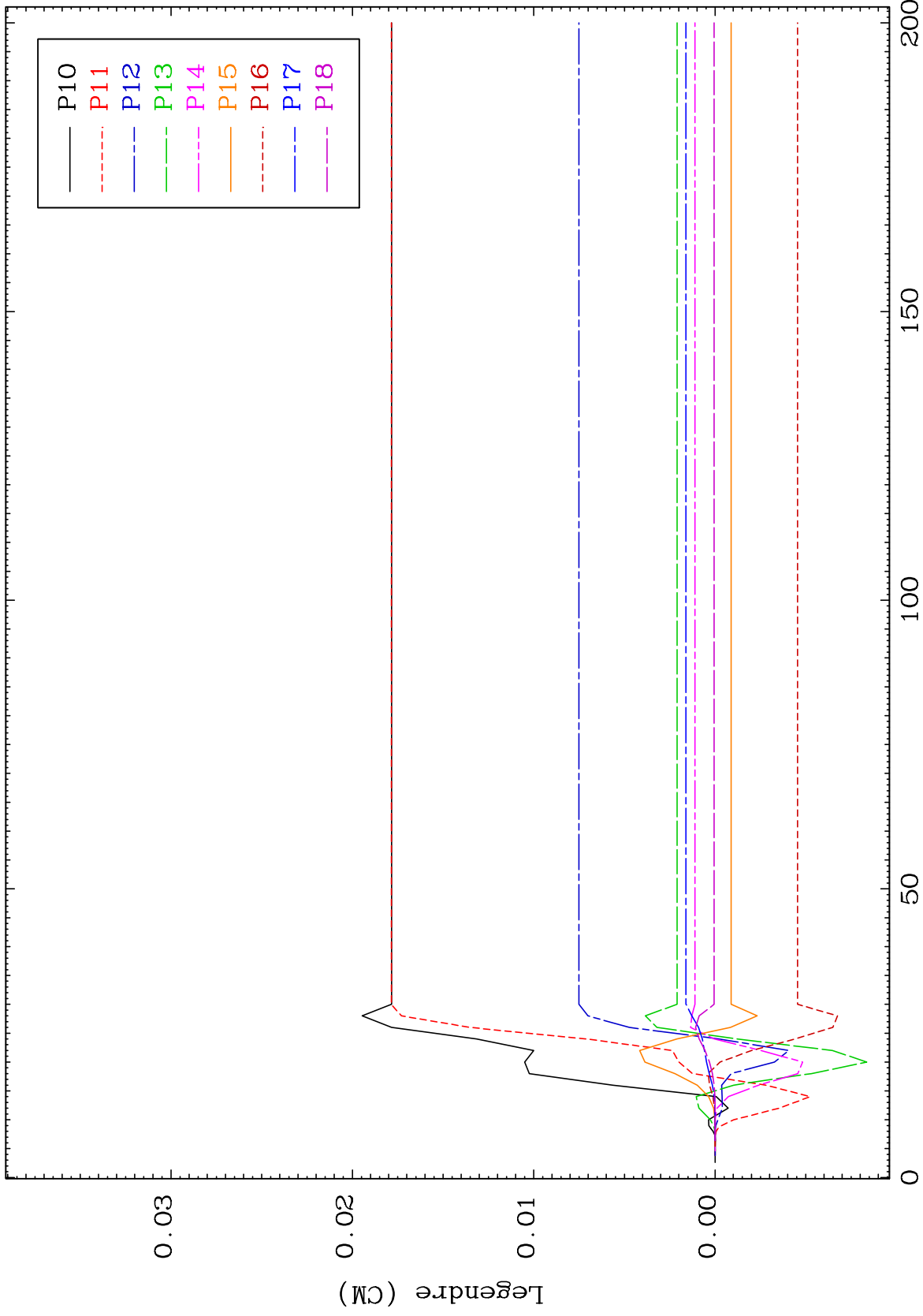
Incident Energy (MeV)

123

MAT 5652

2.090 MeV (n,n') Level
Legendre Coefficients

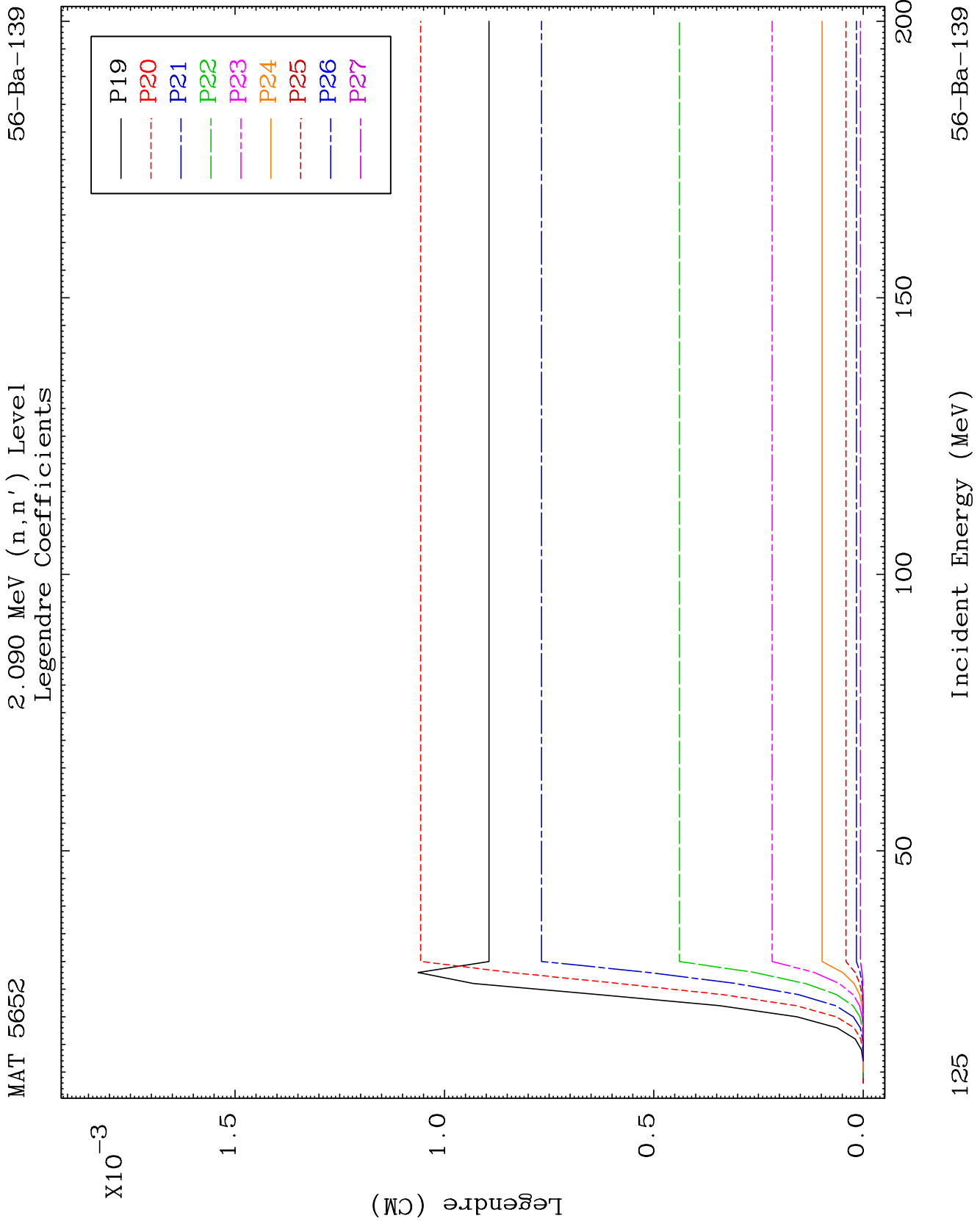
56-Ba-139



124

Incident Energy (MeV)

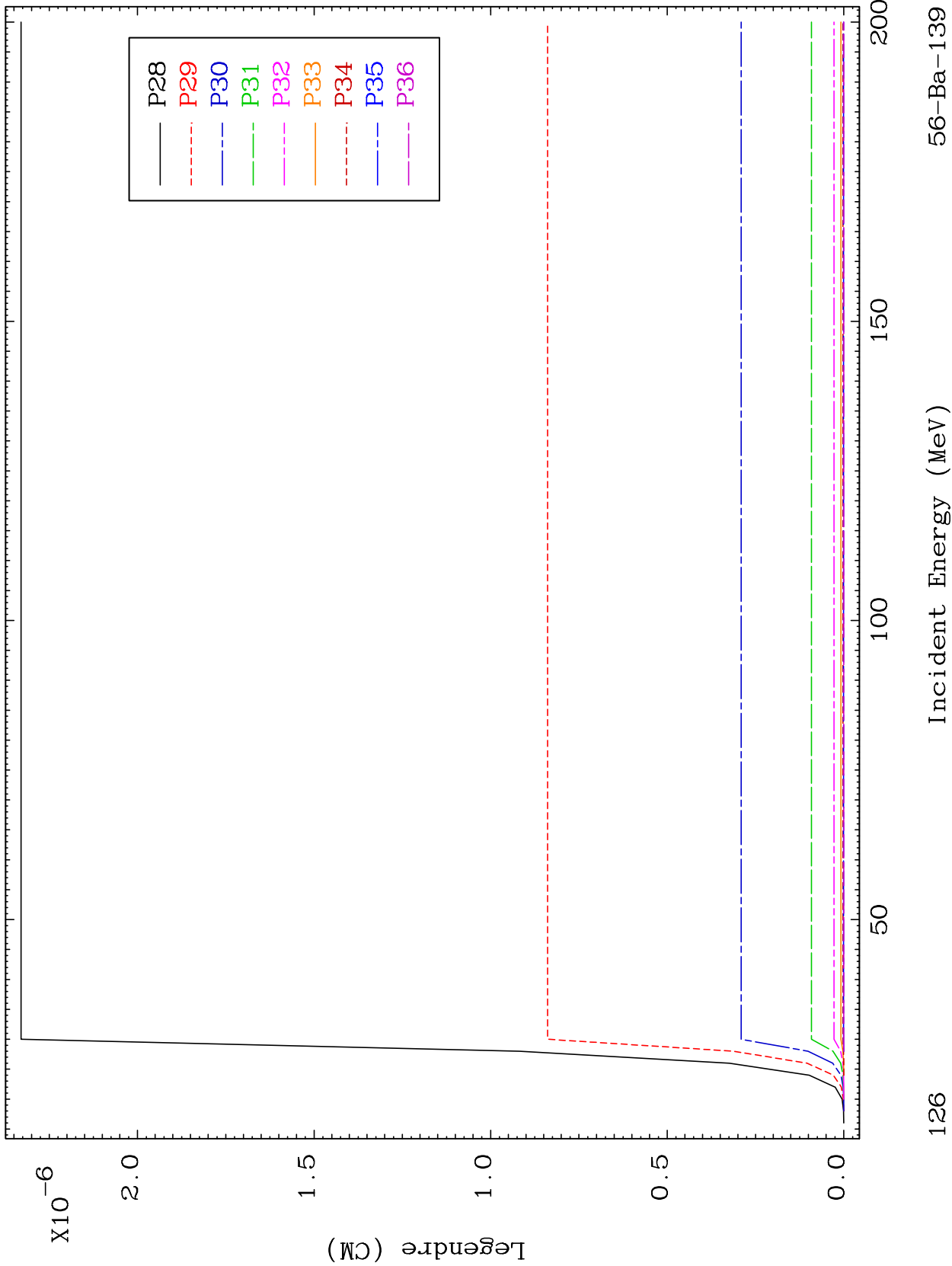
56-Ba-139



MAT 5652

2.090 MeV (n, n') Level
Legendre Coefficients

56-Ba-139



126

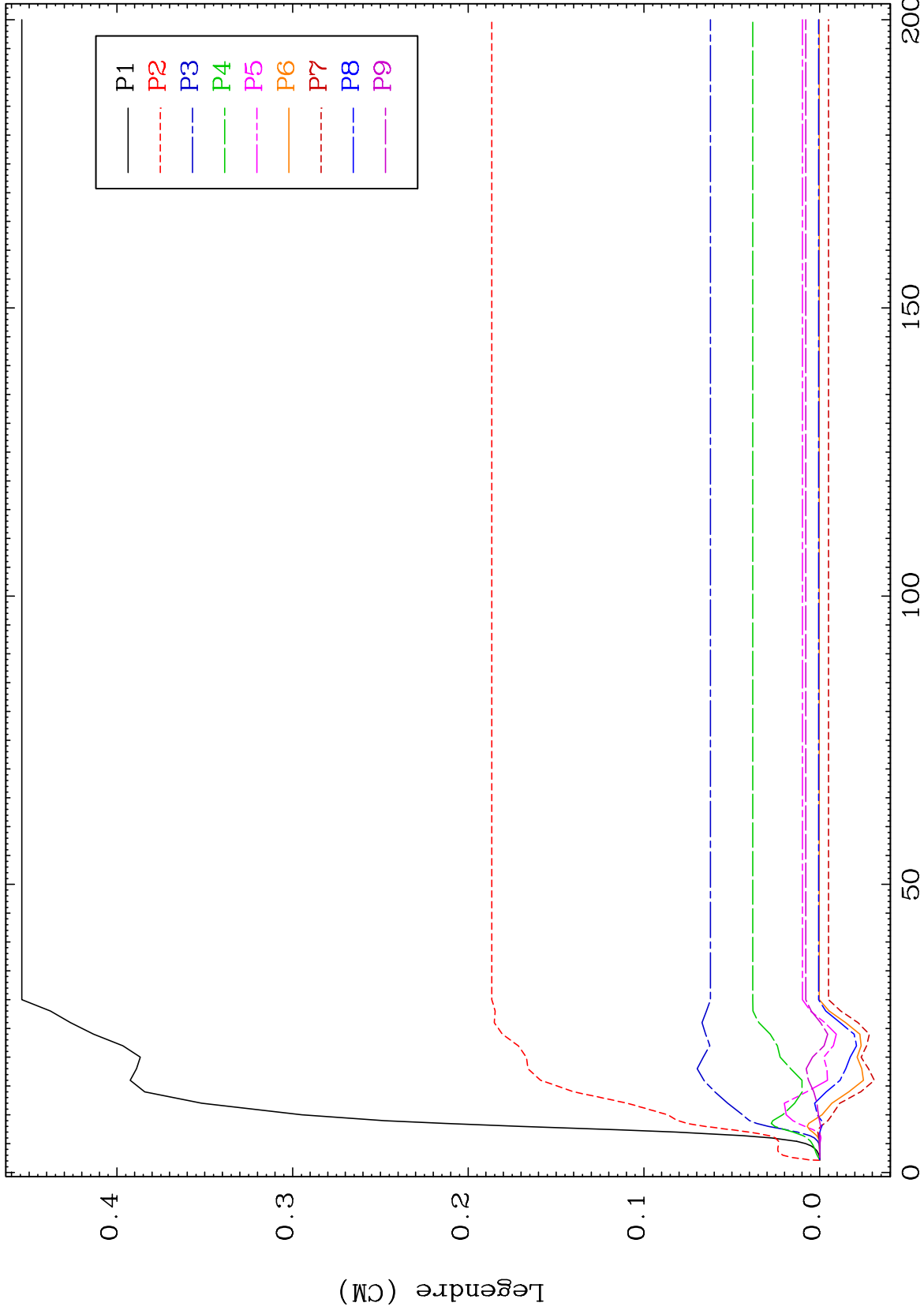
Incident Energy (MeV)

56-Ba-139

MAT 5652

2.092 MeV (n, n') Level
Legendre Coefficients

56-Ba-139



127

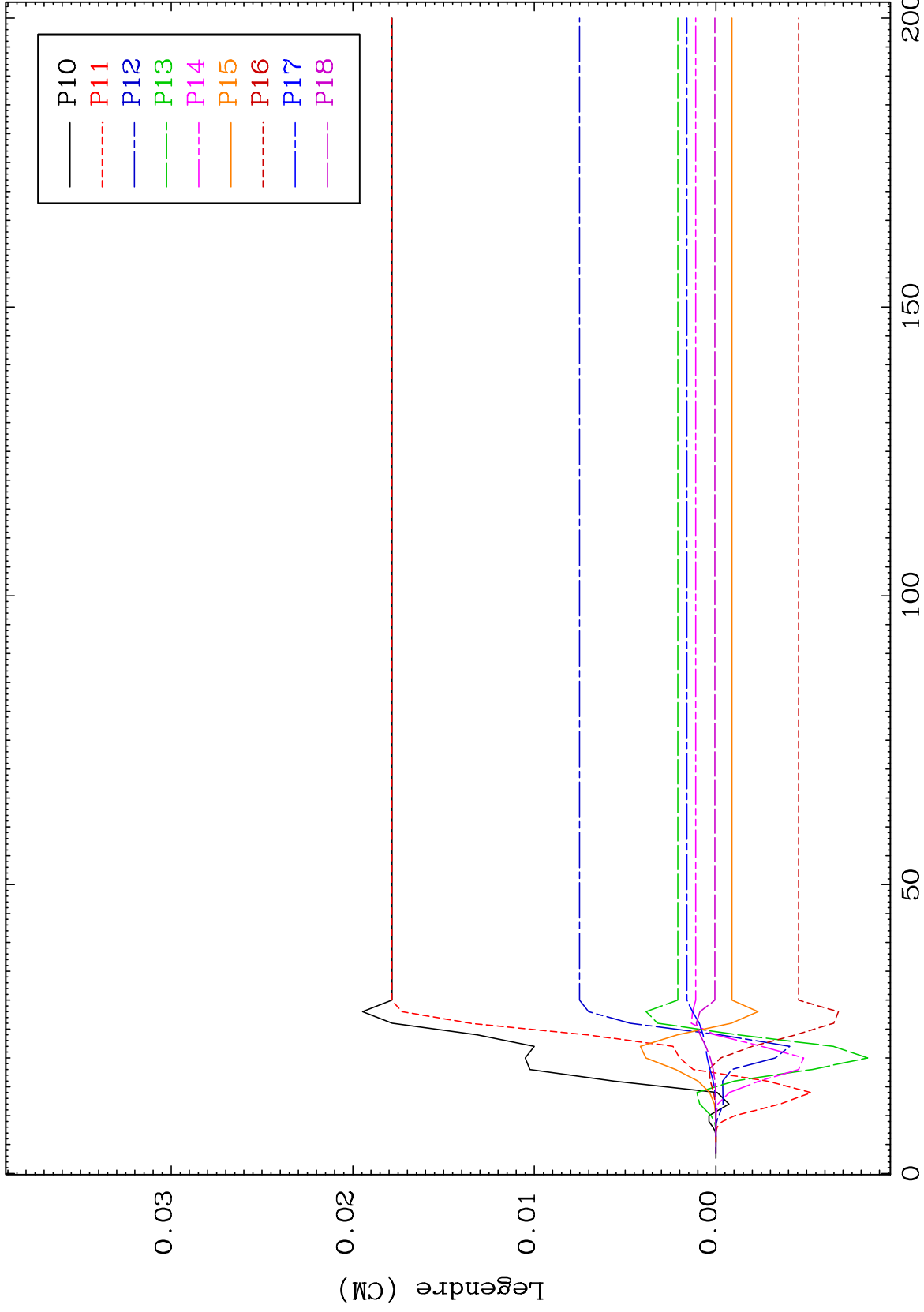
Incident Energy (MeV)

56-Ba-139

MAT 5652

2.092 MeV (n,n') Level
Legendre Coefficients

56-Ba-139



128

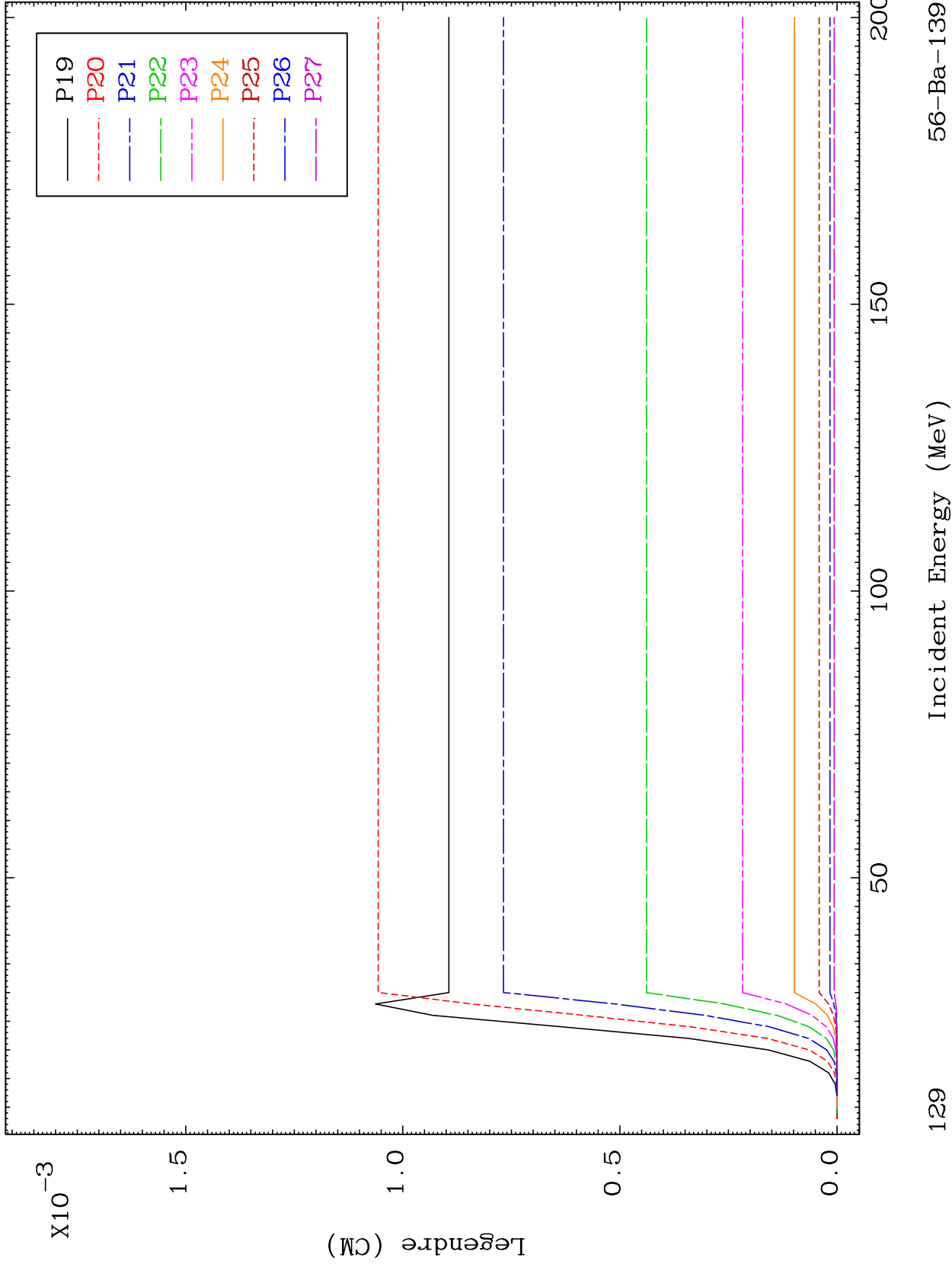
Incident Energy (MeV)

56-Ba-139

MAT 5652

2.092 MeV (n,n') Level
Legendre Coefficients

56-Ba-139

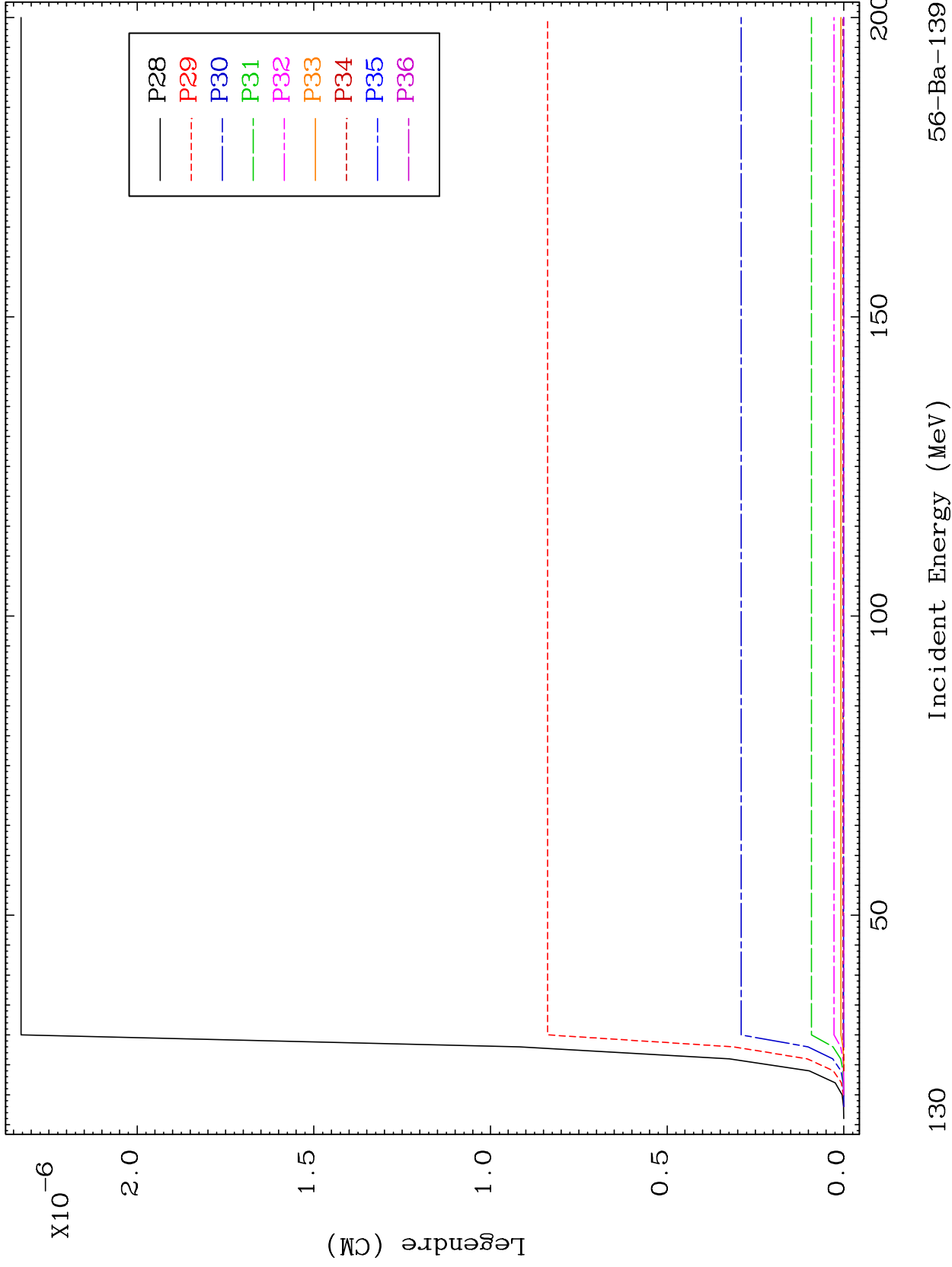


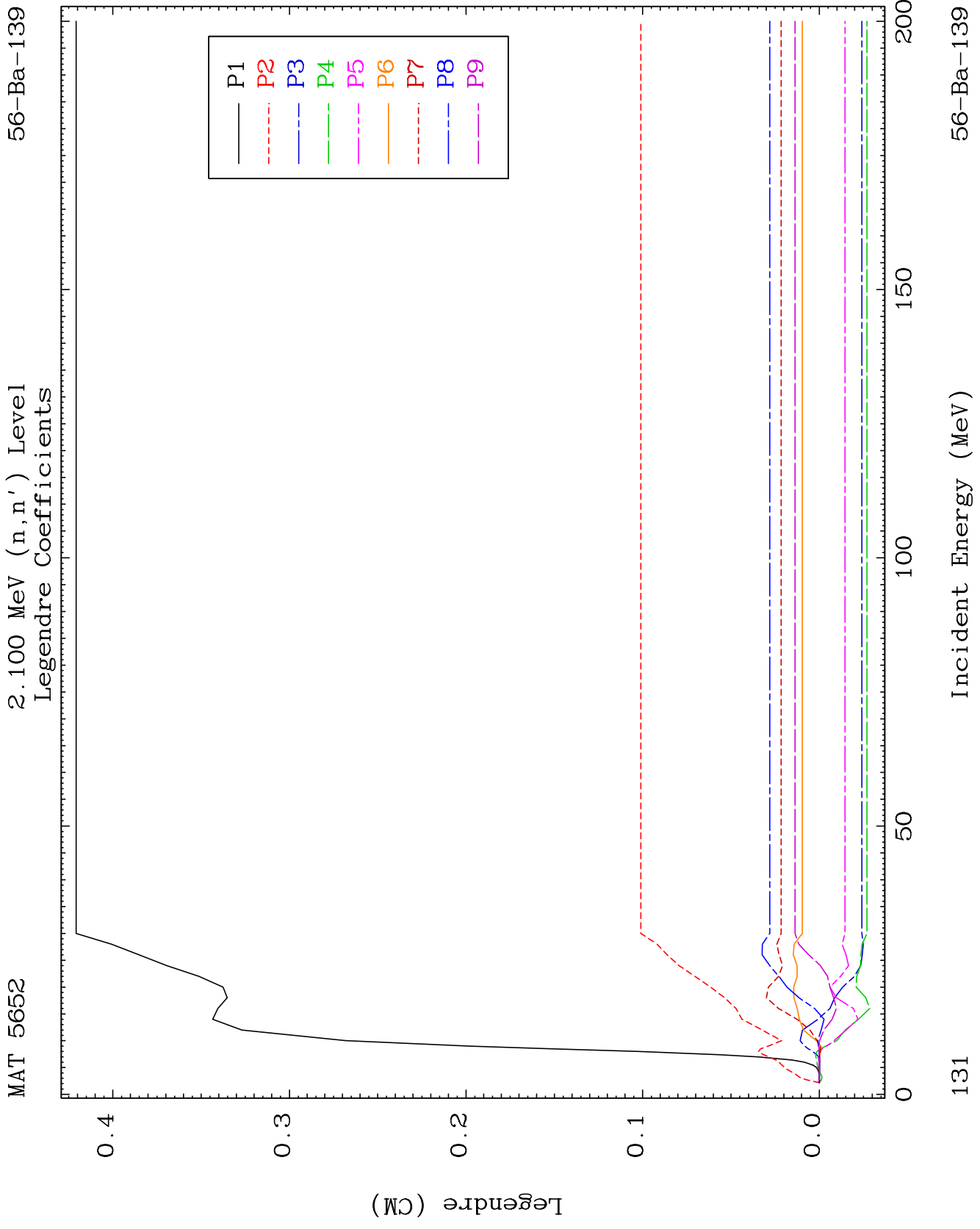
129

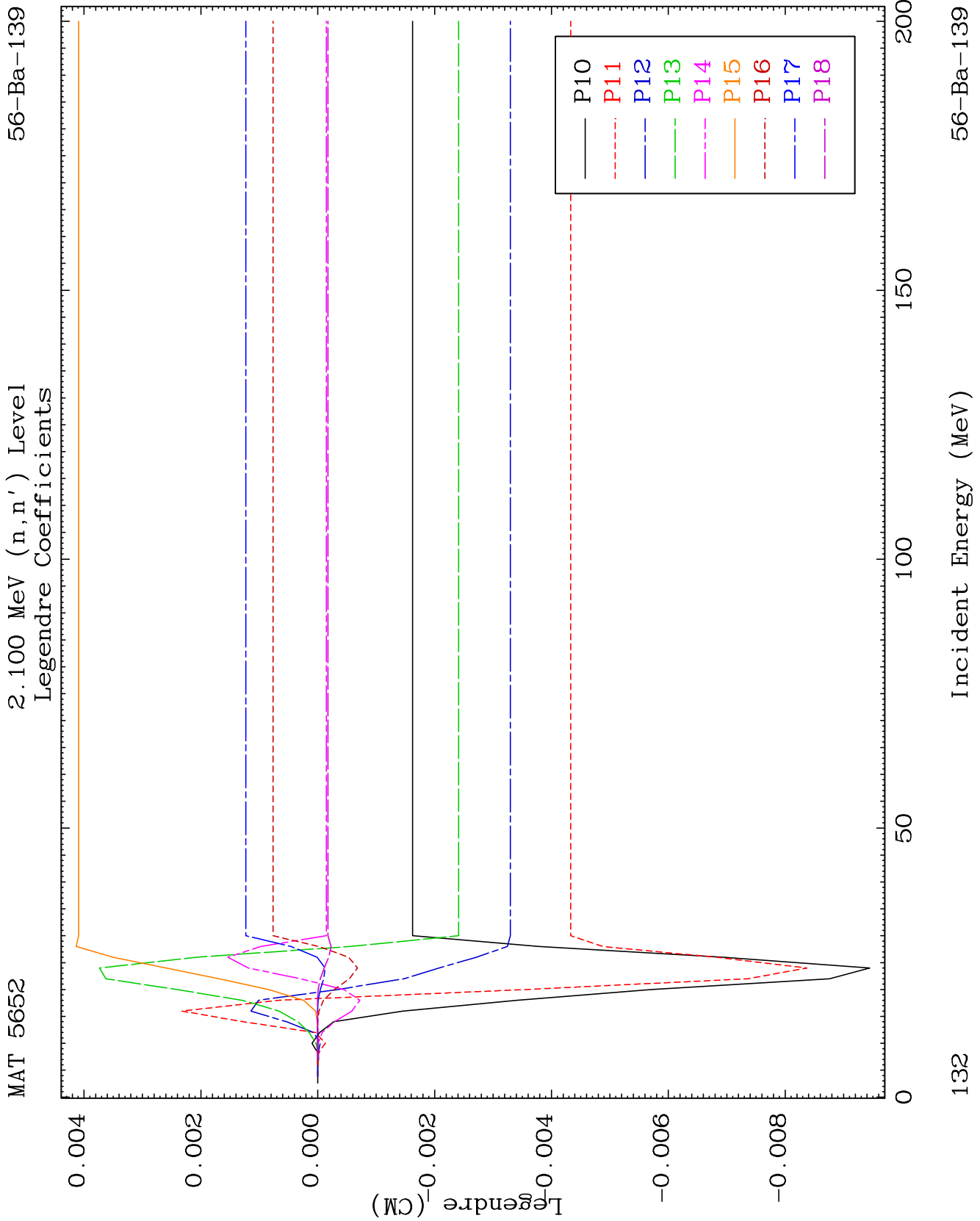
MAT 5652

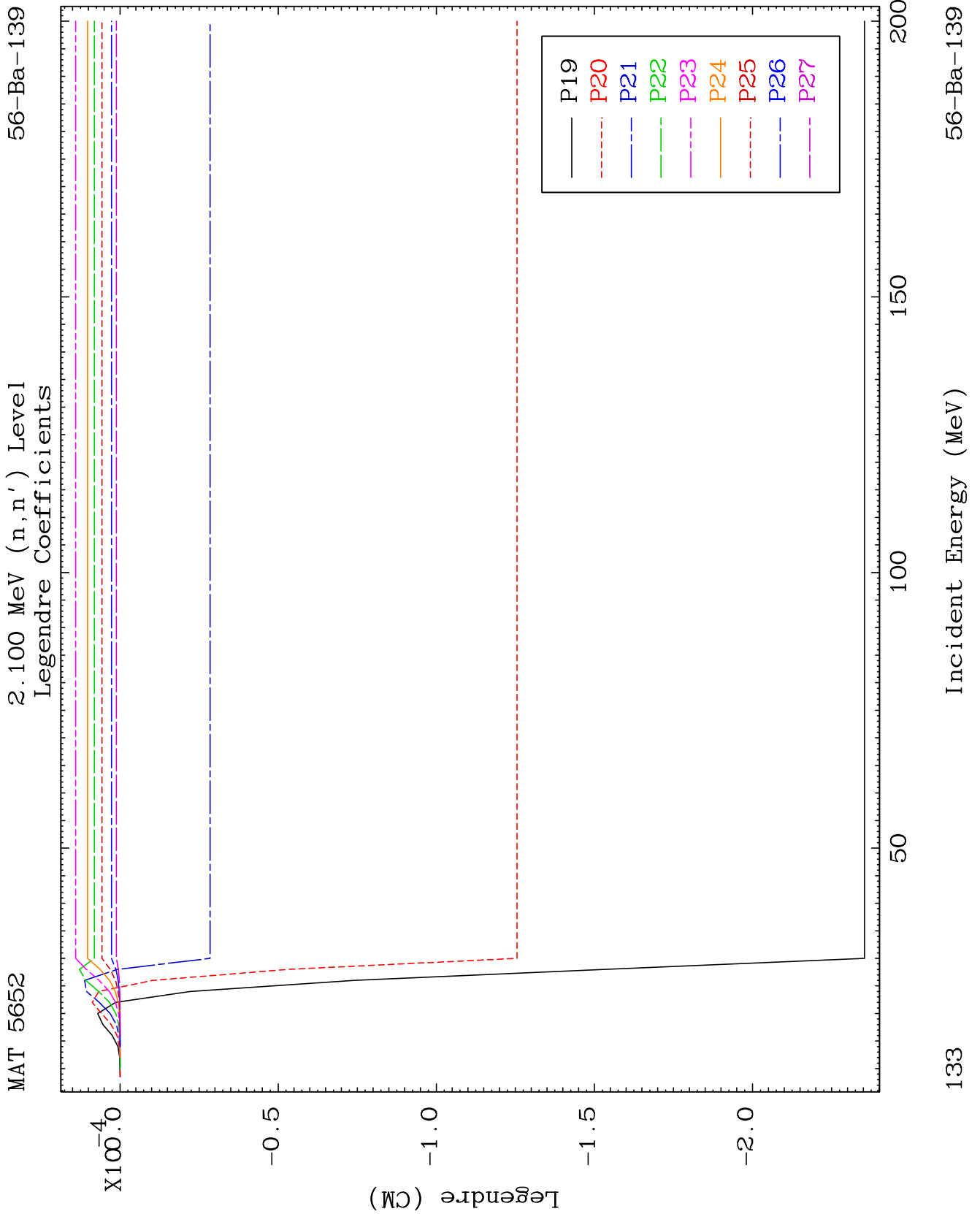
2.092 MeV (n,n') Level
Legendre Coefficients

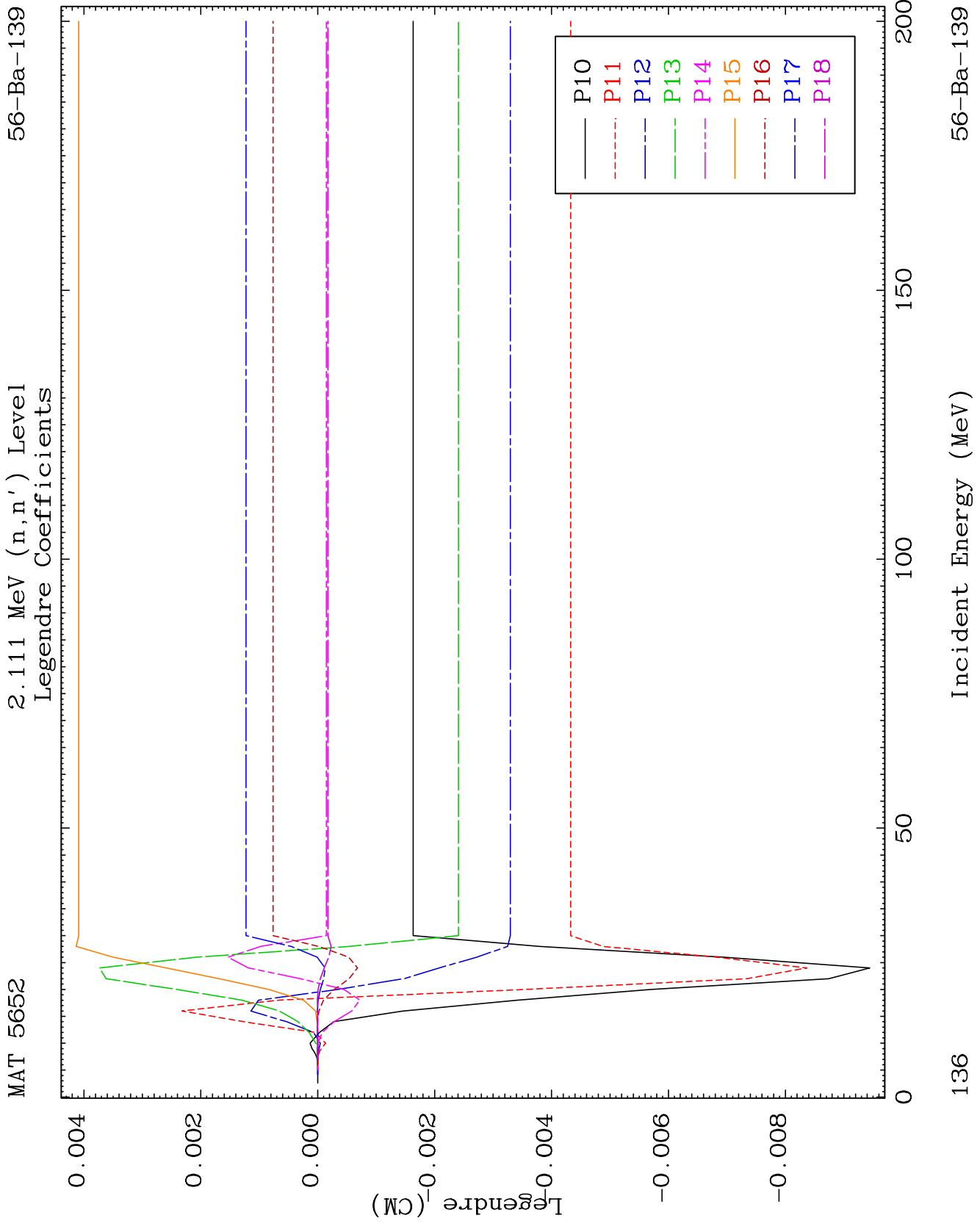
56-Ba-139

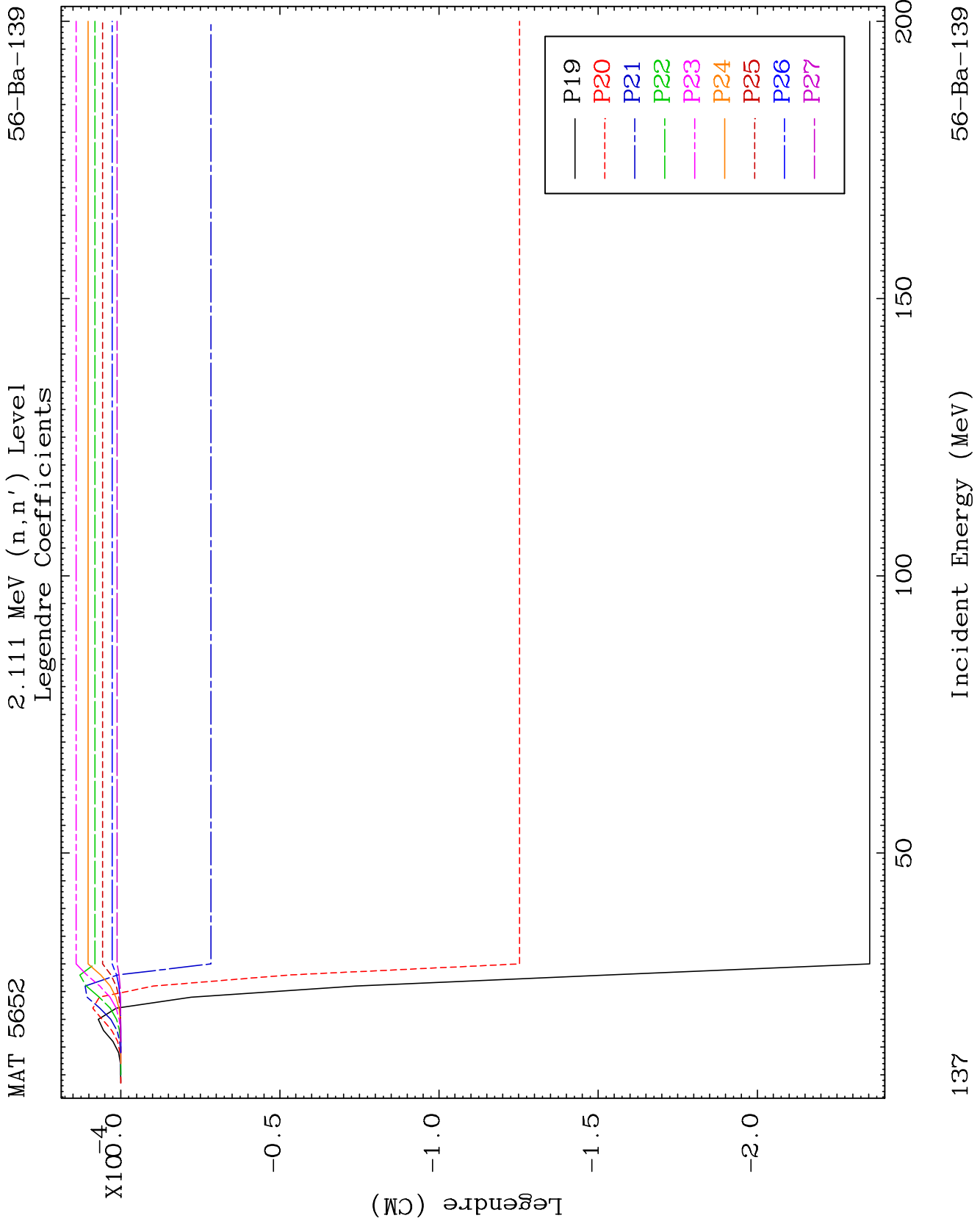


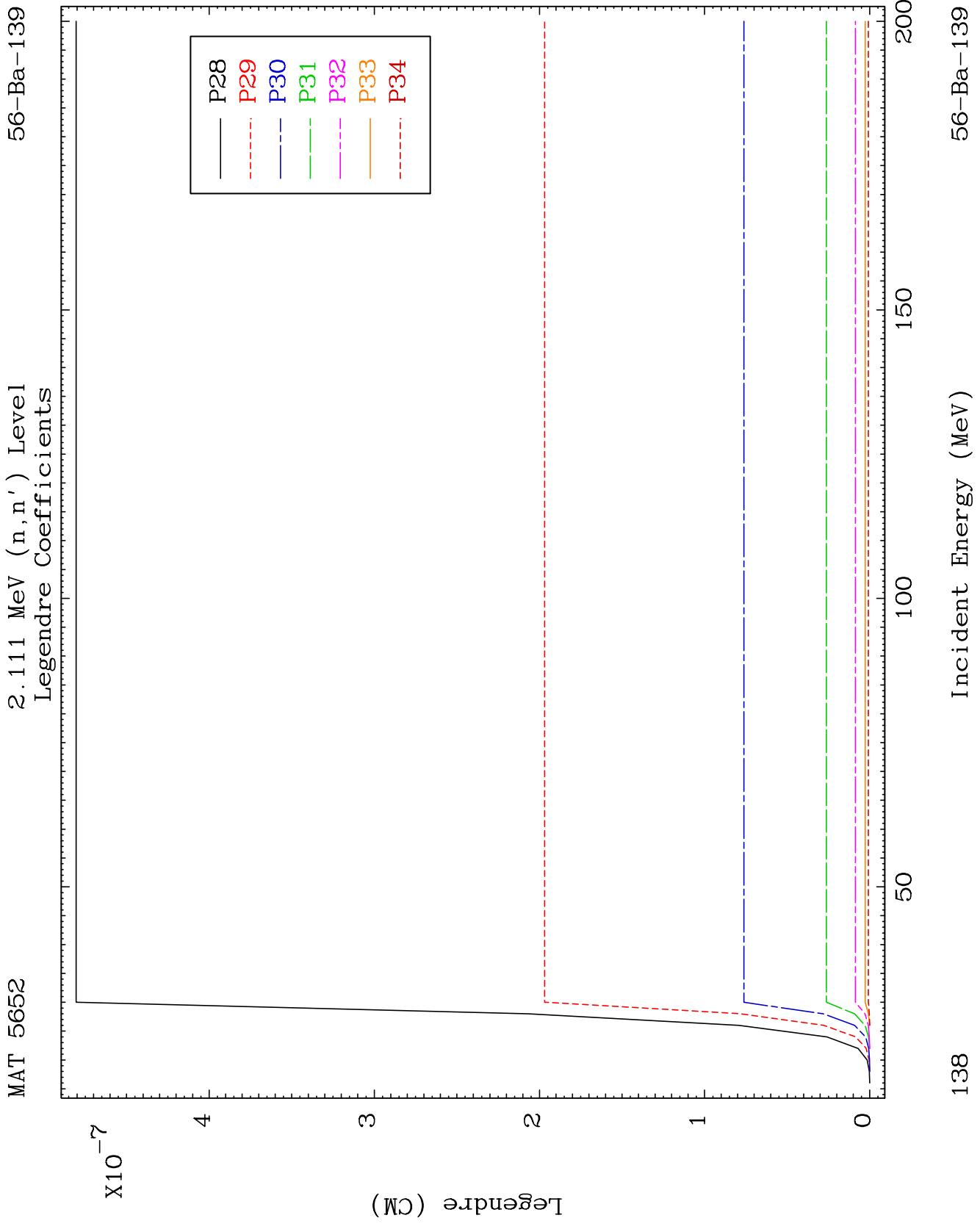










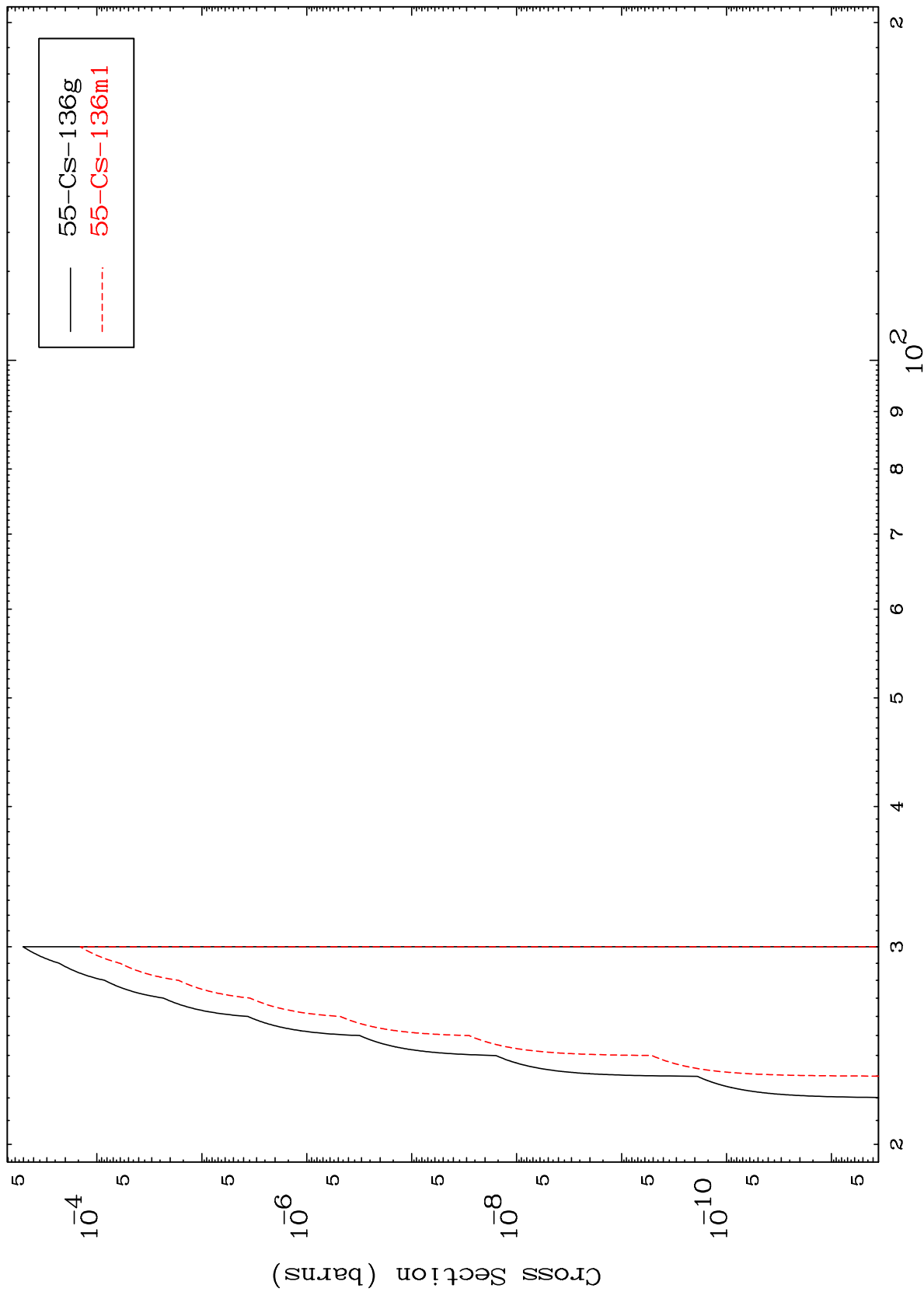


MAT 5652

(n,2n) d

56-Ba-139

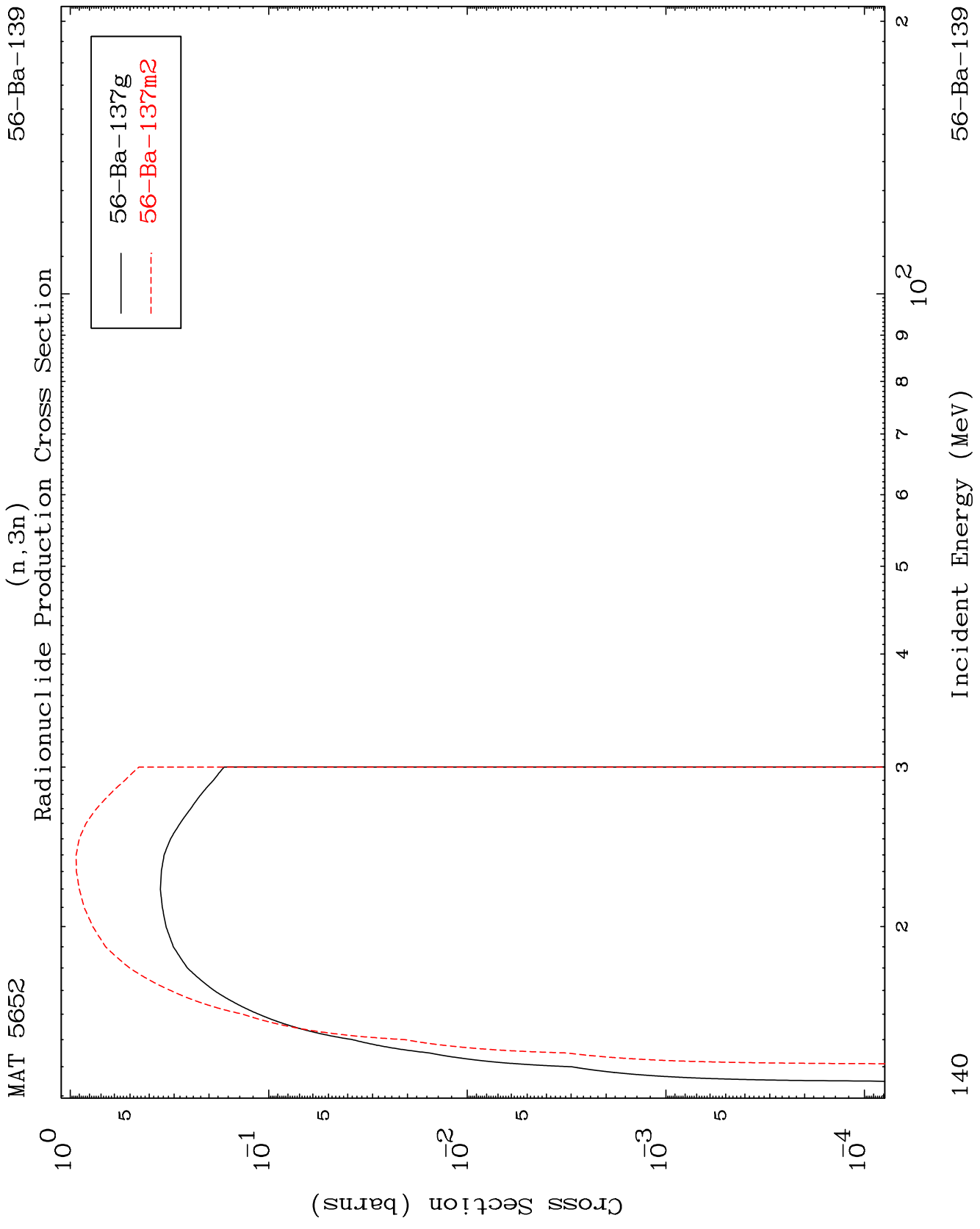
Radionuclide Production Cross Section



139

Incident Energy (MeV)

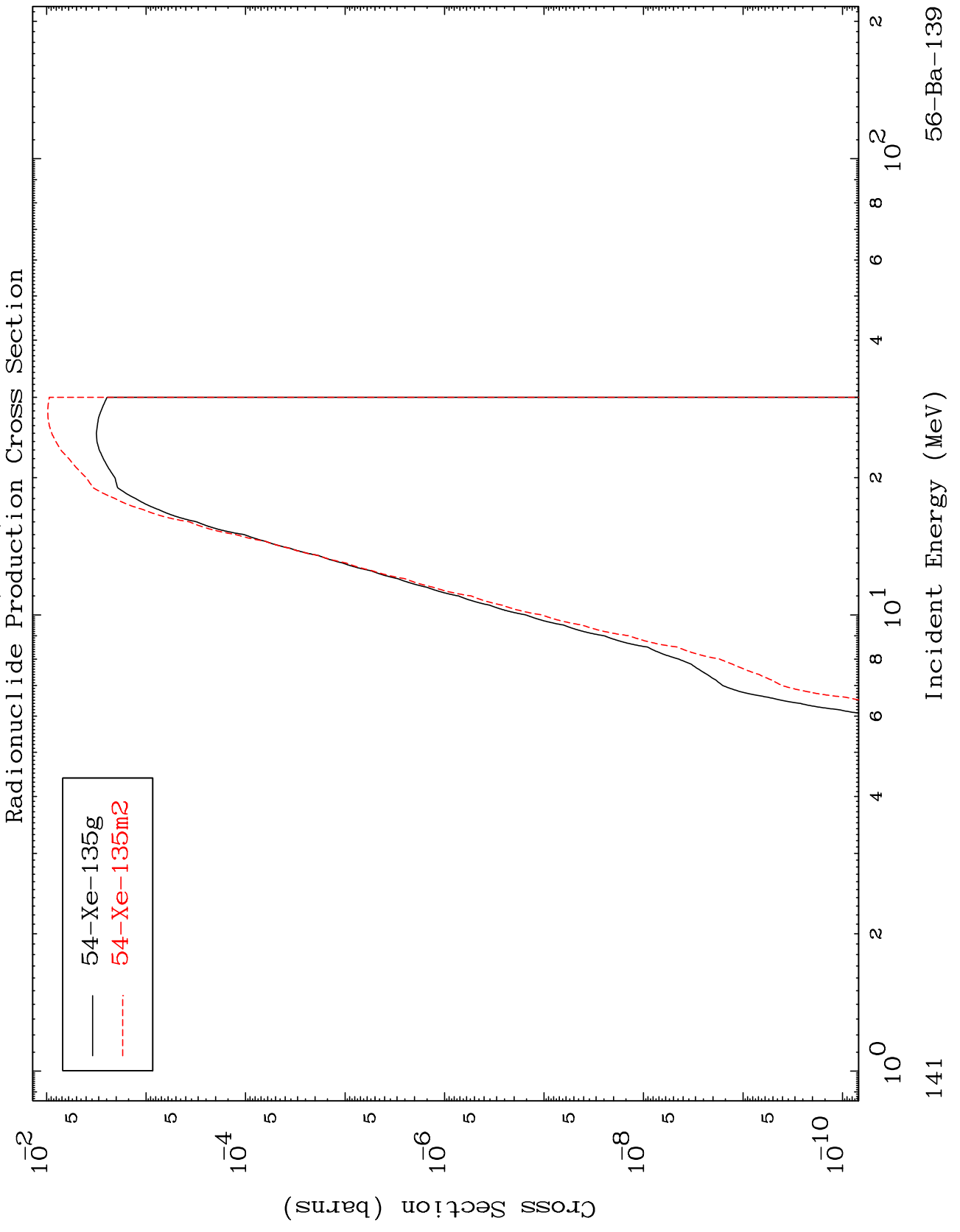
56-Ba-139



MAT 5652

(n,n') α

56-Ba-139

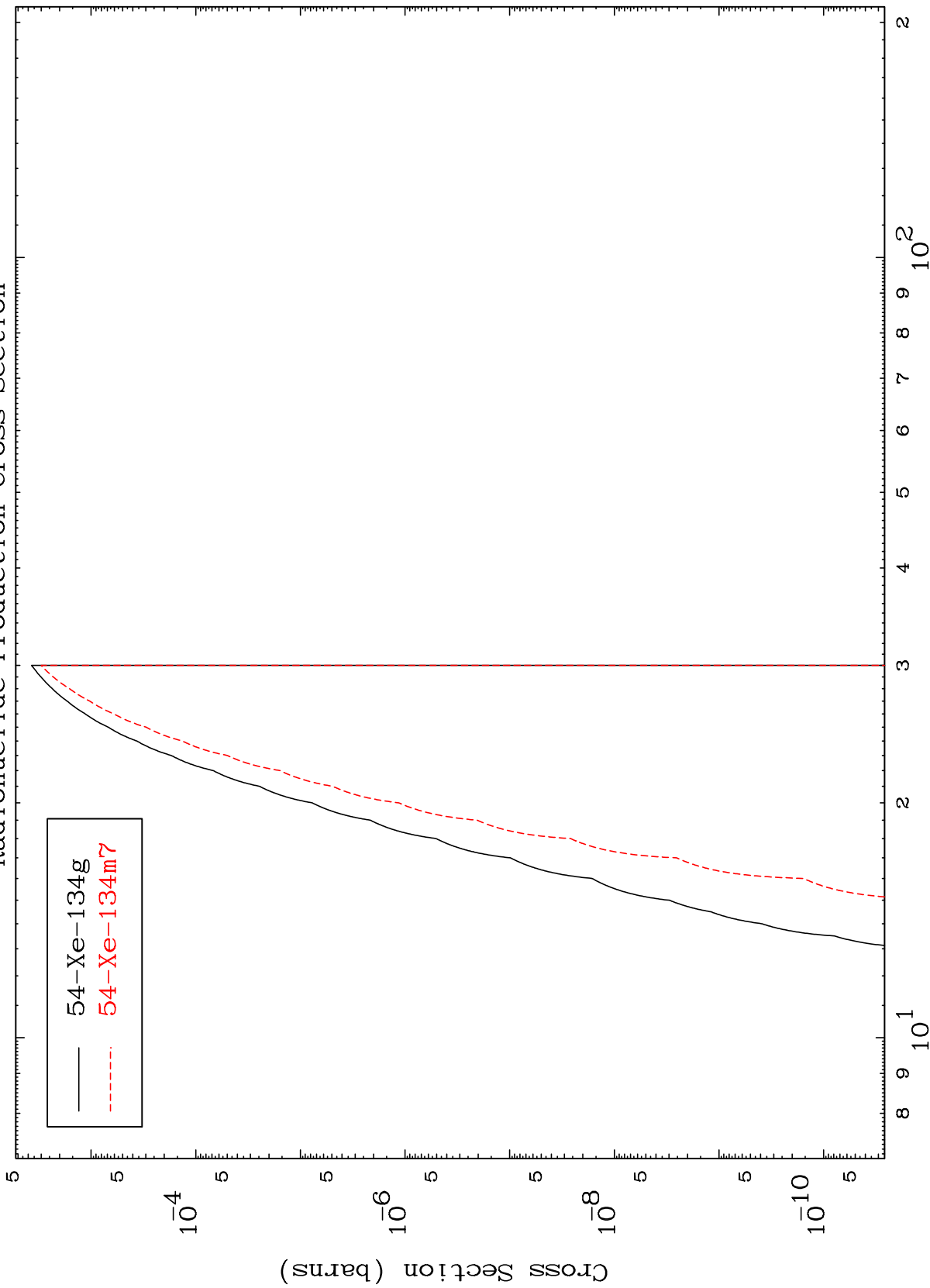


MAT 5652

(n,2n) α

56-Ba-139

Radionuclide Production Cross Section



142

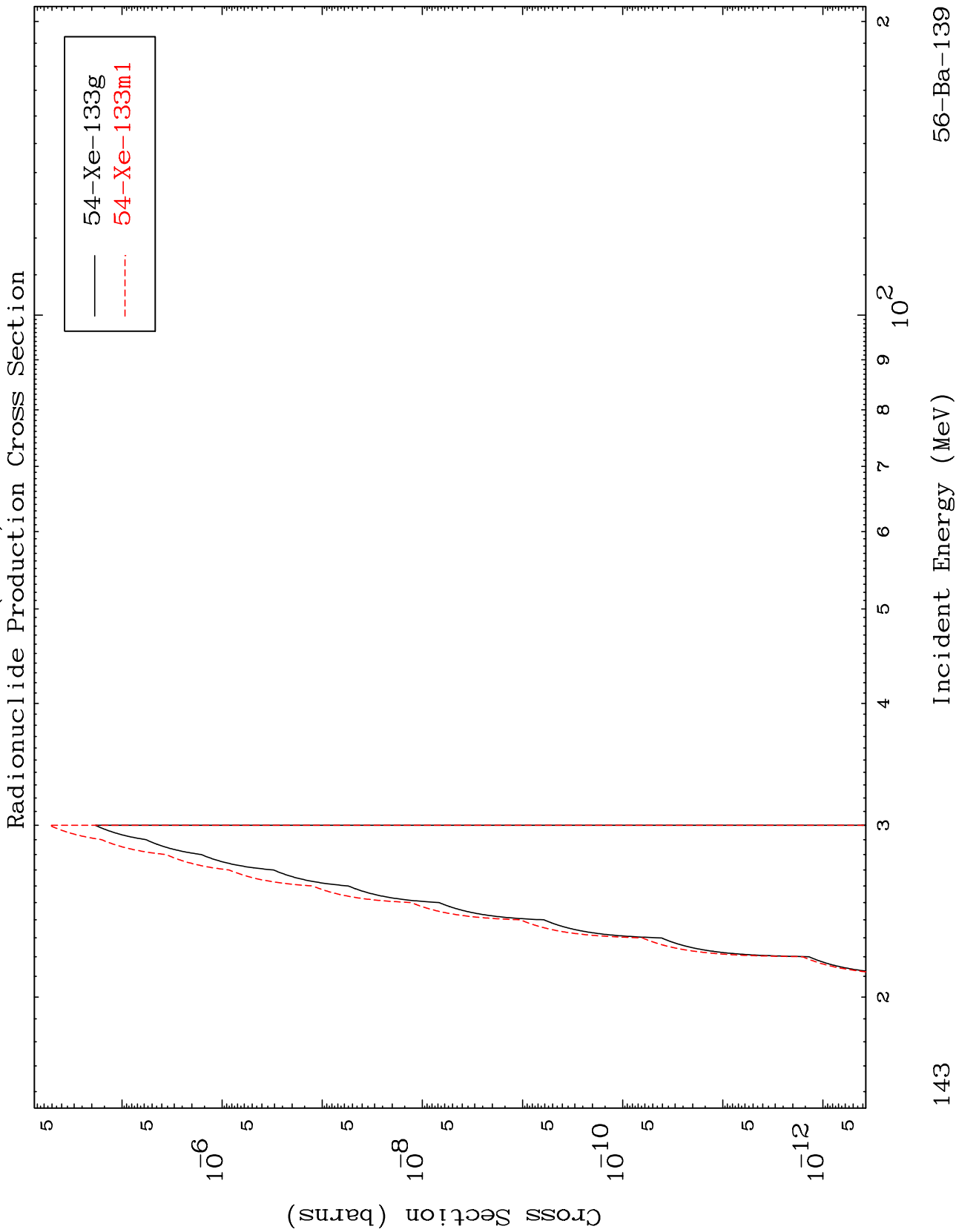
Incident Energy (MeV)

56-Ba-139

MAT 5652

(n,3n) α

56-Ba-139



143

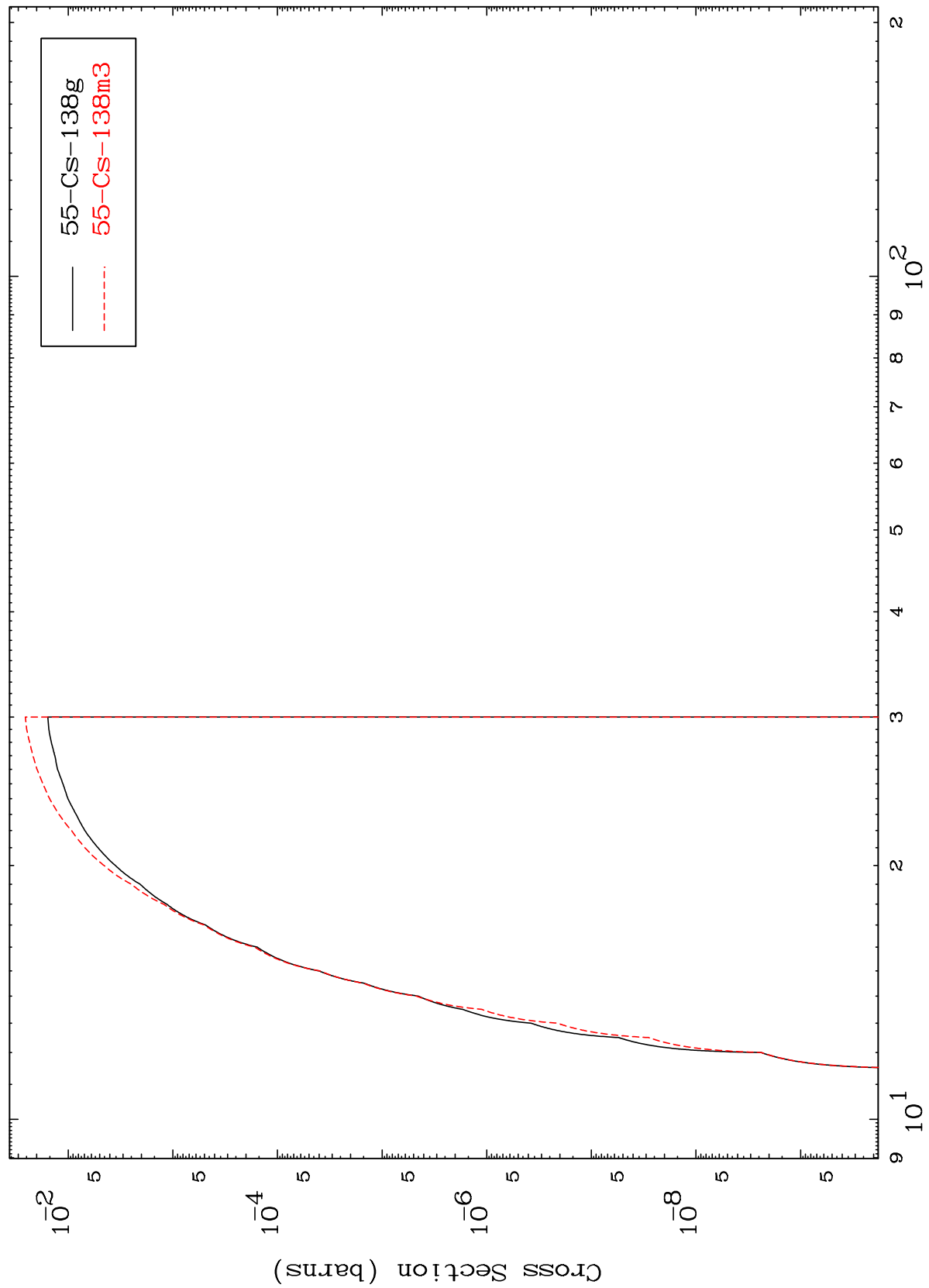
Incident Energy (MeV)

56-Ba-139

MAT 5652

56-Ba-139

(n,n') p
Radionuclide Production Cross Section



56-Ba-139

Incident Energy (MeV)

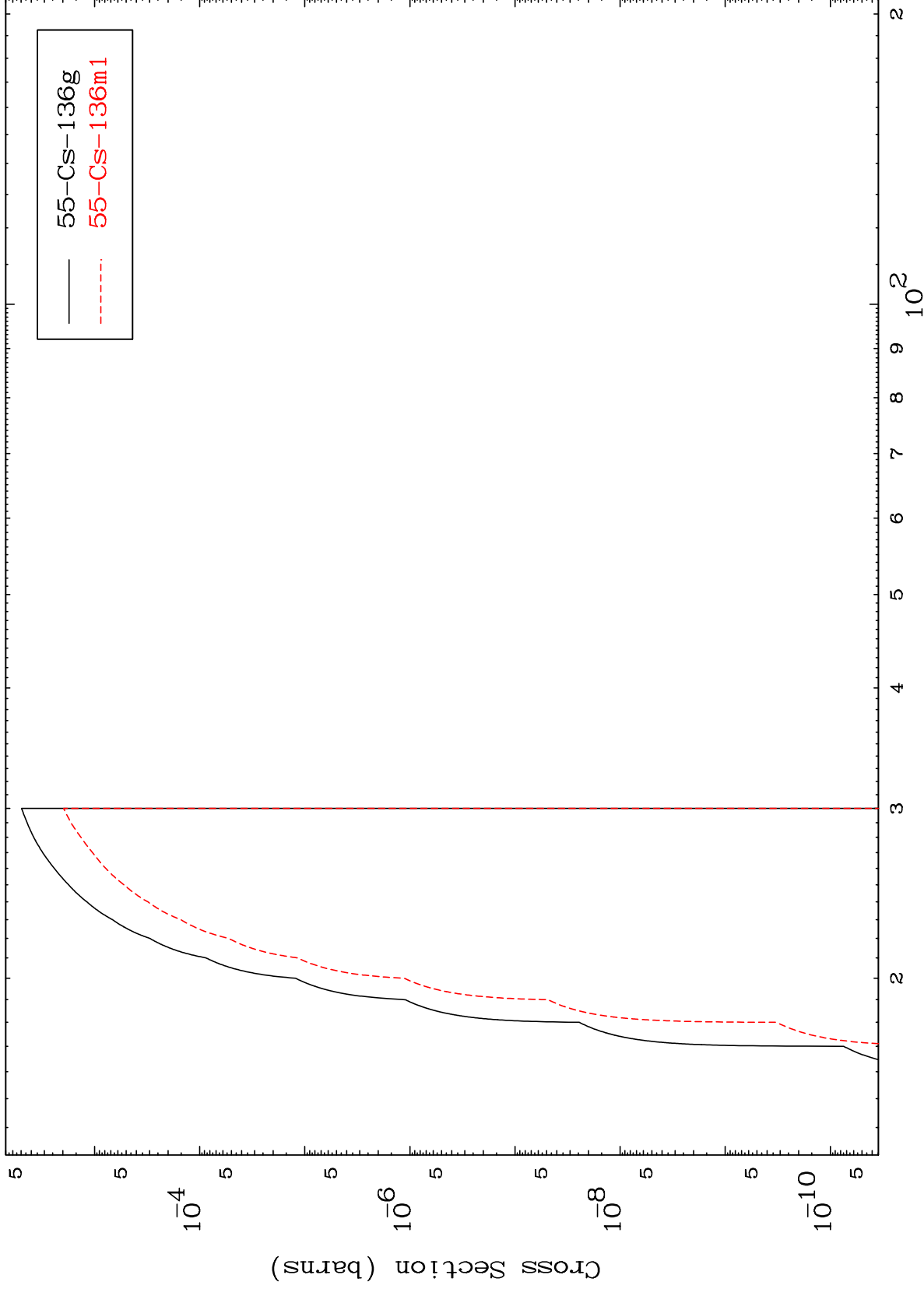
144

MAT 5652

(n,n') t

56-Ba-139

Radionuclide Production Cross Section



145

Incident Energy (MeV)

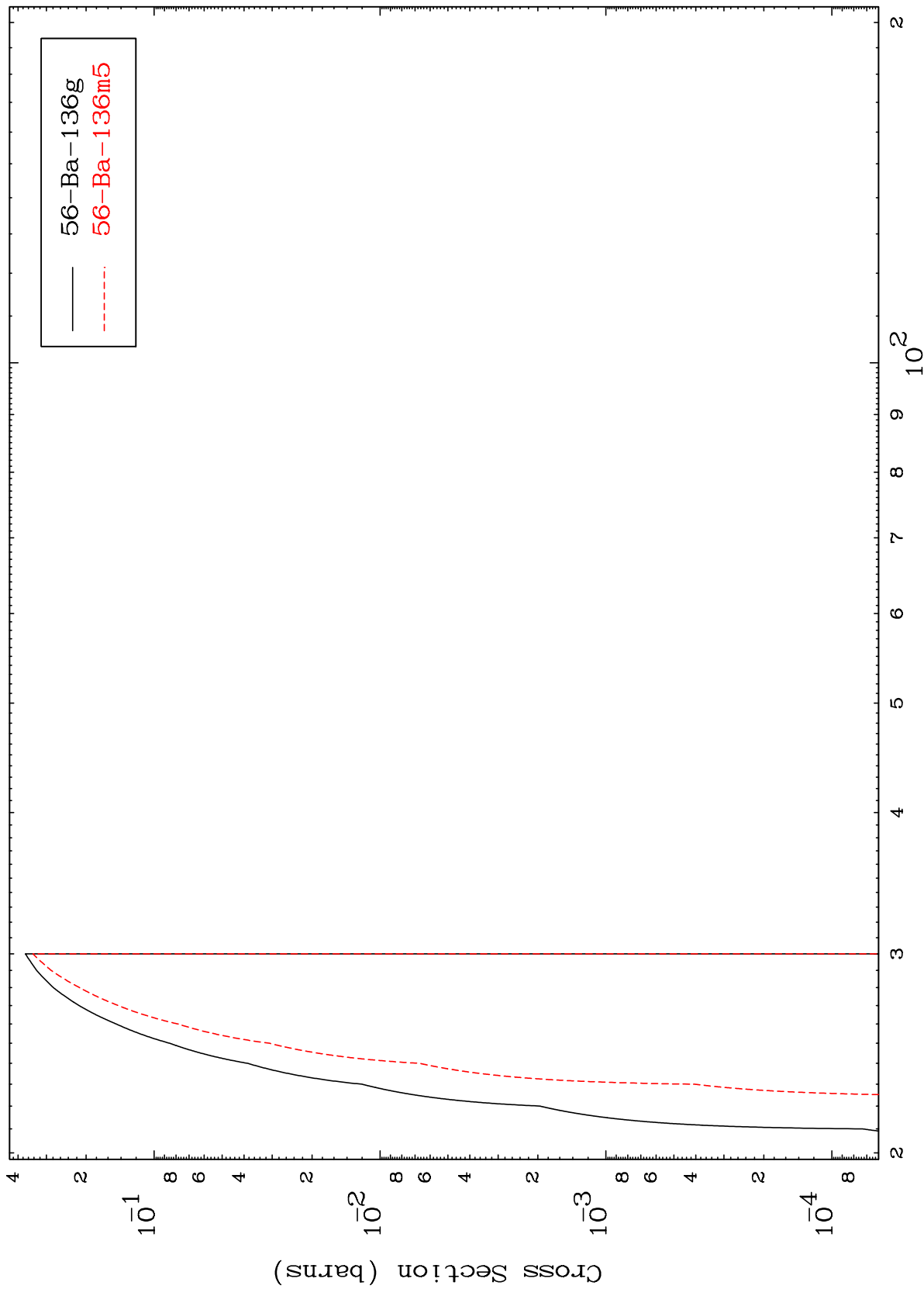
56-Ba-139

MAT 5652

56-Ba-139

(n,4n)

Radionuclide Production Cross Section



146

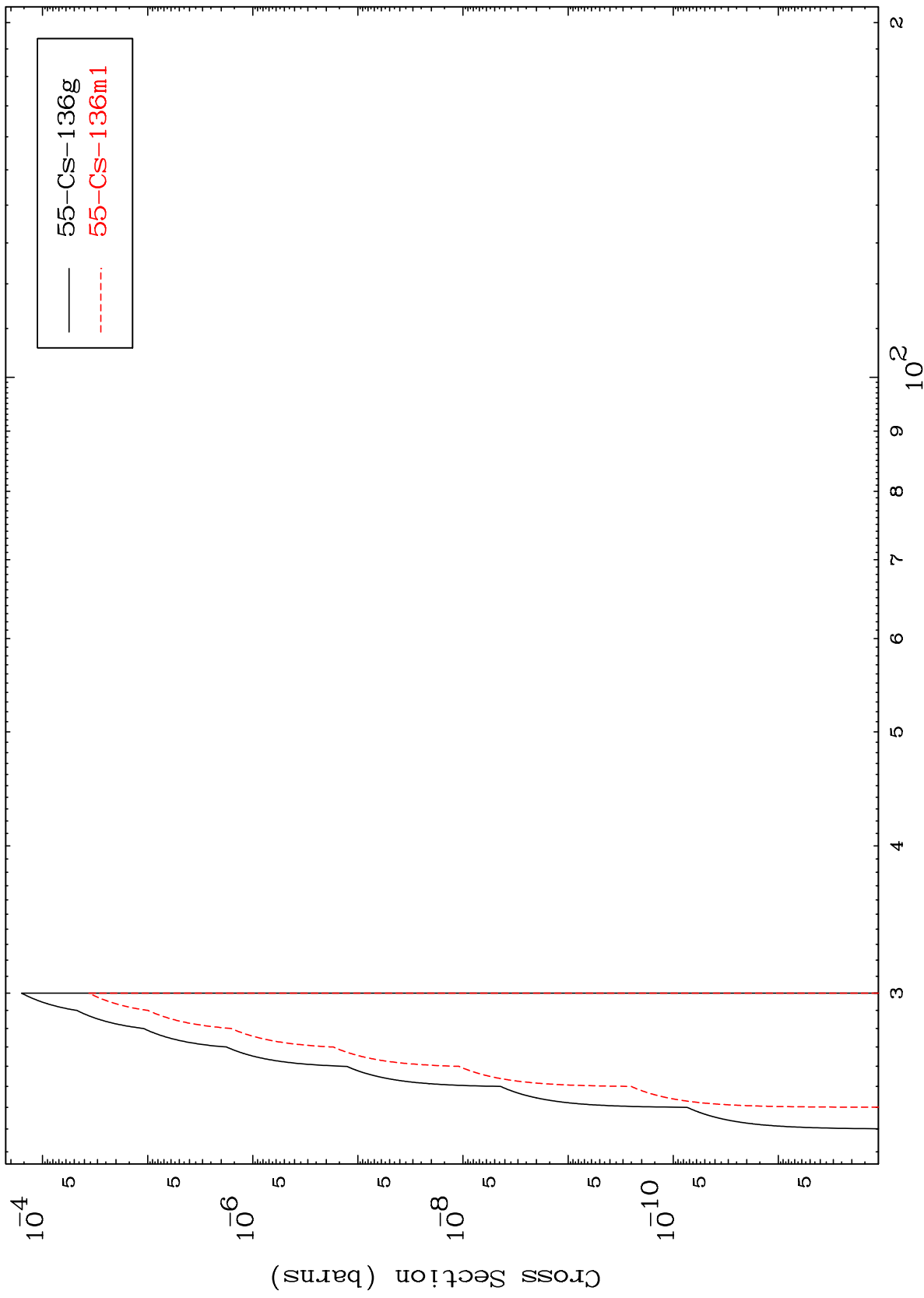
56-Ba-139

Incident Energy (MeV)

MAT 5652

56-Ba-139

(n,3n) p
Radionuclide Production Cross Section



147

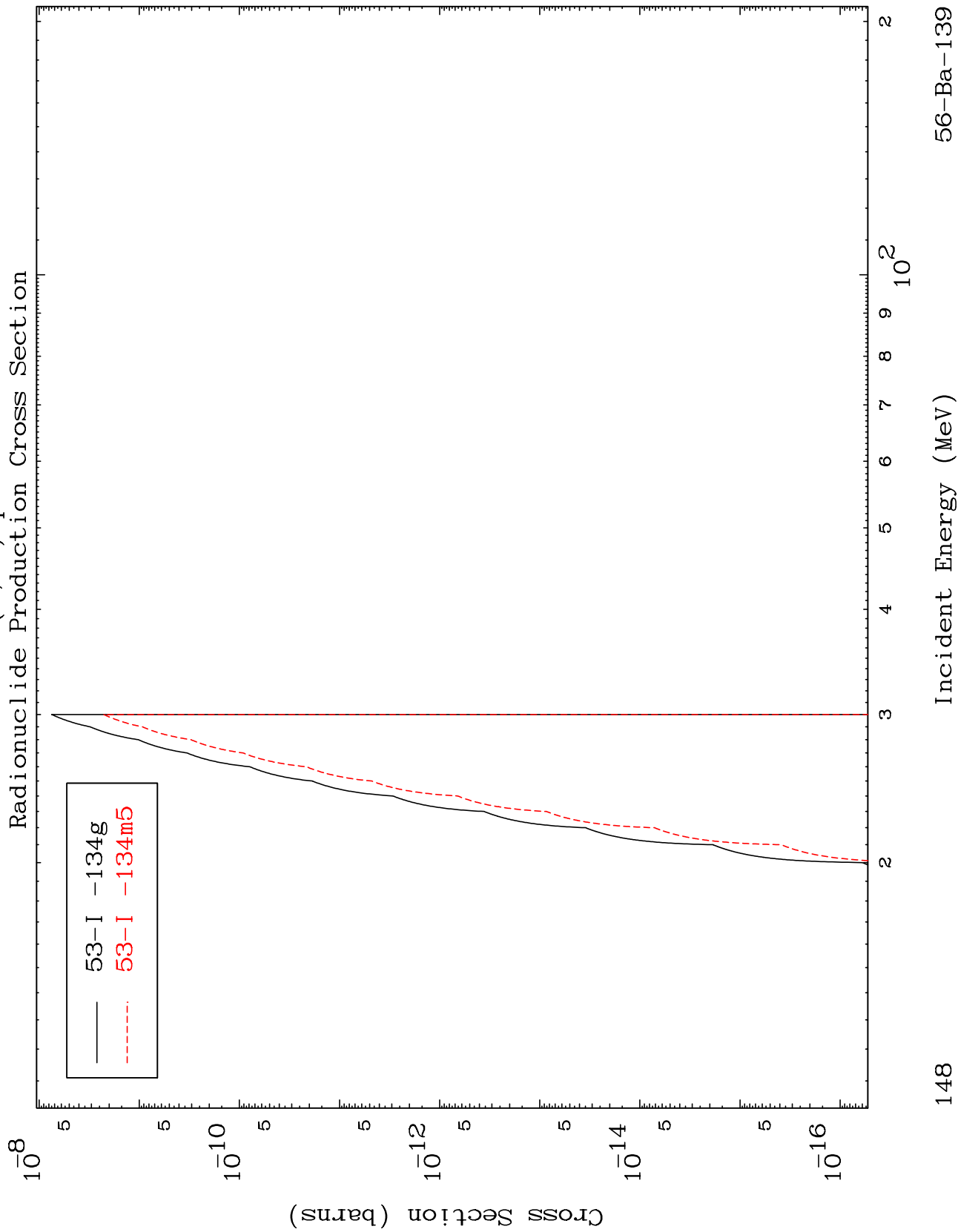
56-Ba-139

Incident Energy (MeV)

MAT 5652

(n,n') p α

56-Ba-139

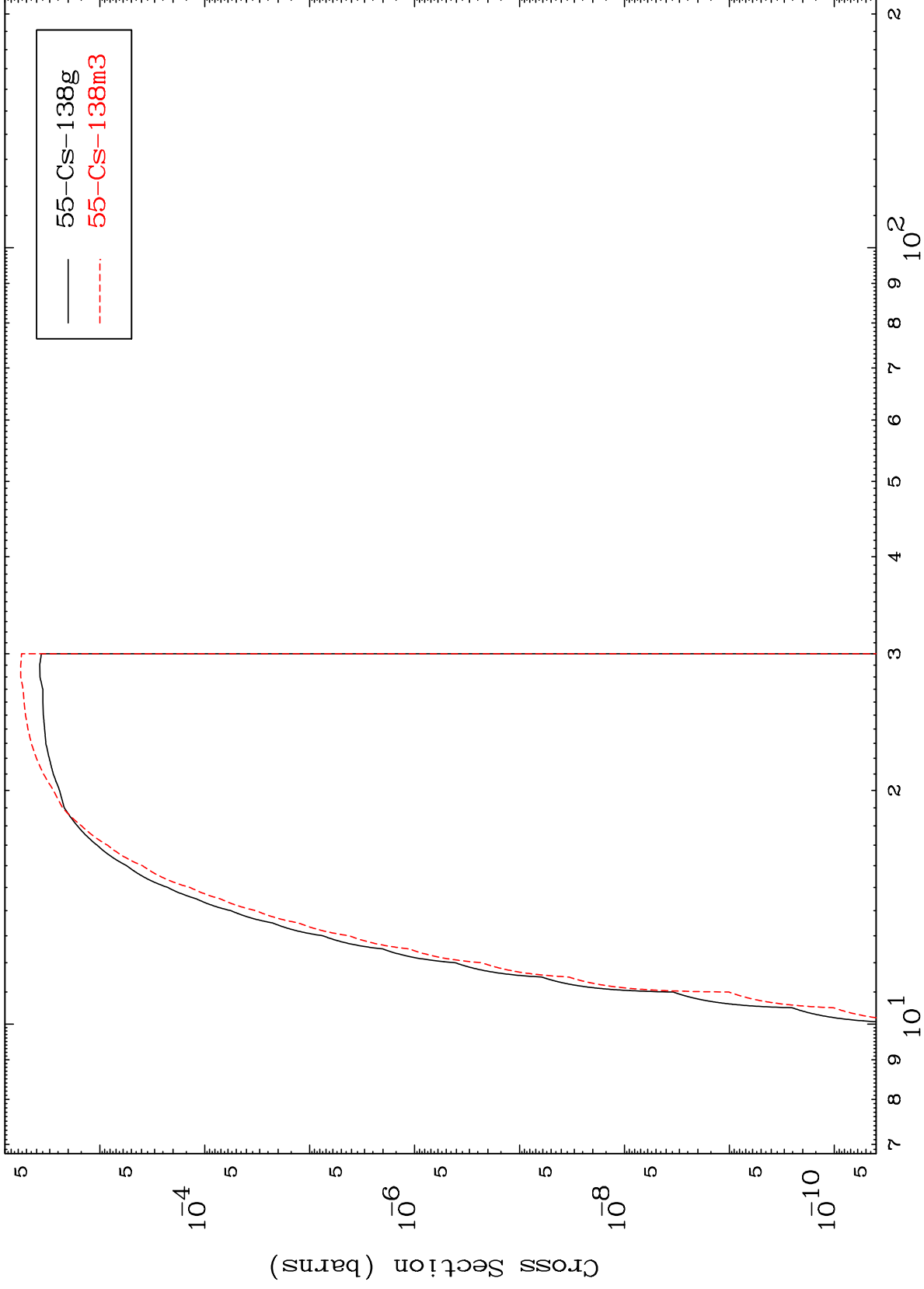


MAT 5652

(n,d)

56-Ba-139

Radionuclide Production Cross Section



149

Incident Energy (MeV)

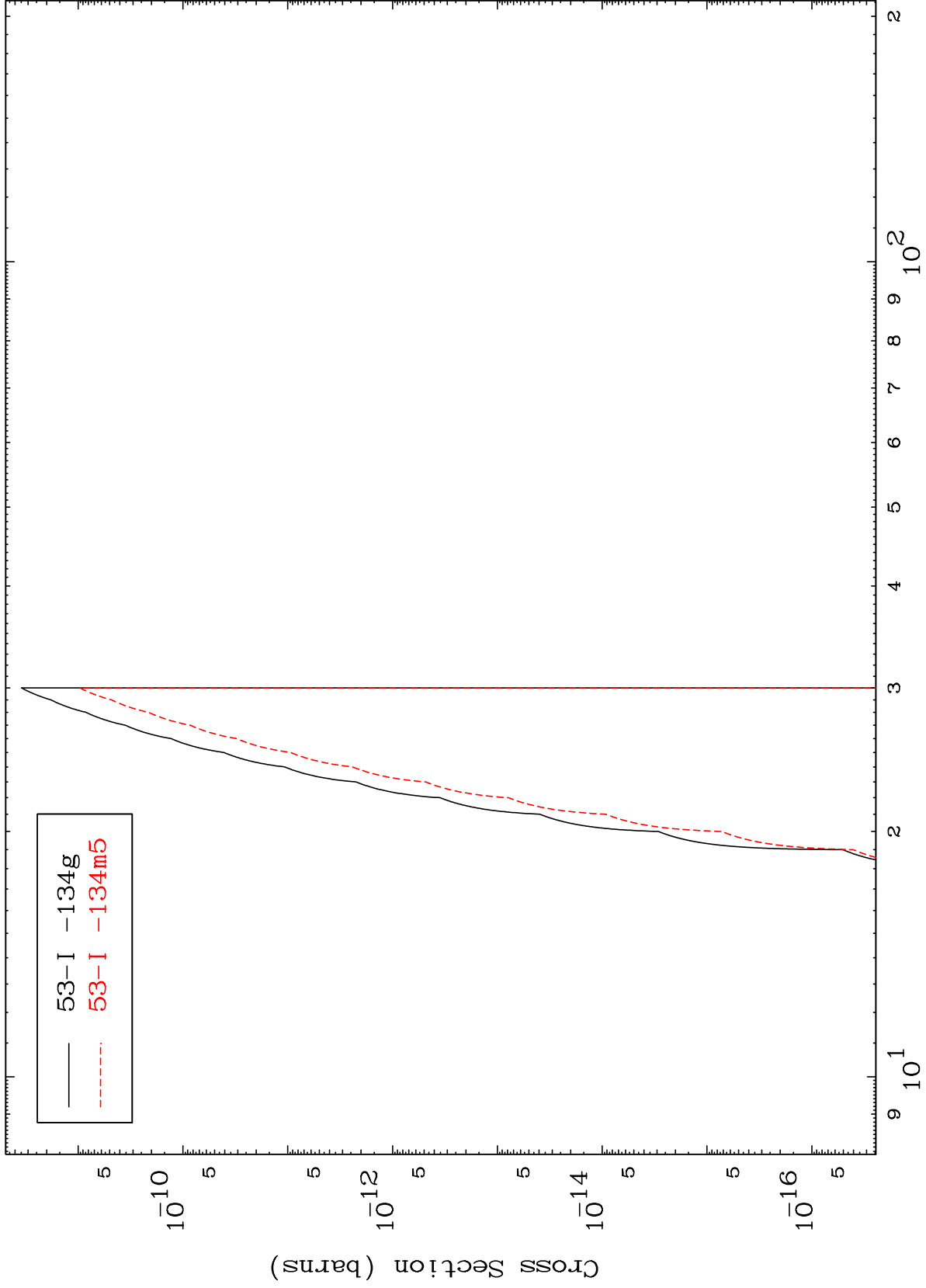
56-Ba-139

MAT 5652

(n,d) α

56-Ba-139

Radionuclide Production Cross Section



150

Incident Energy (MeV)

56-Ba-139