

Program EVALPLOT  
(Version 2015-2)

by

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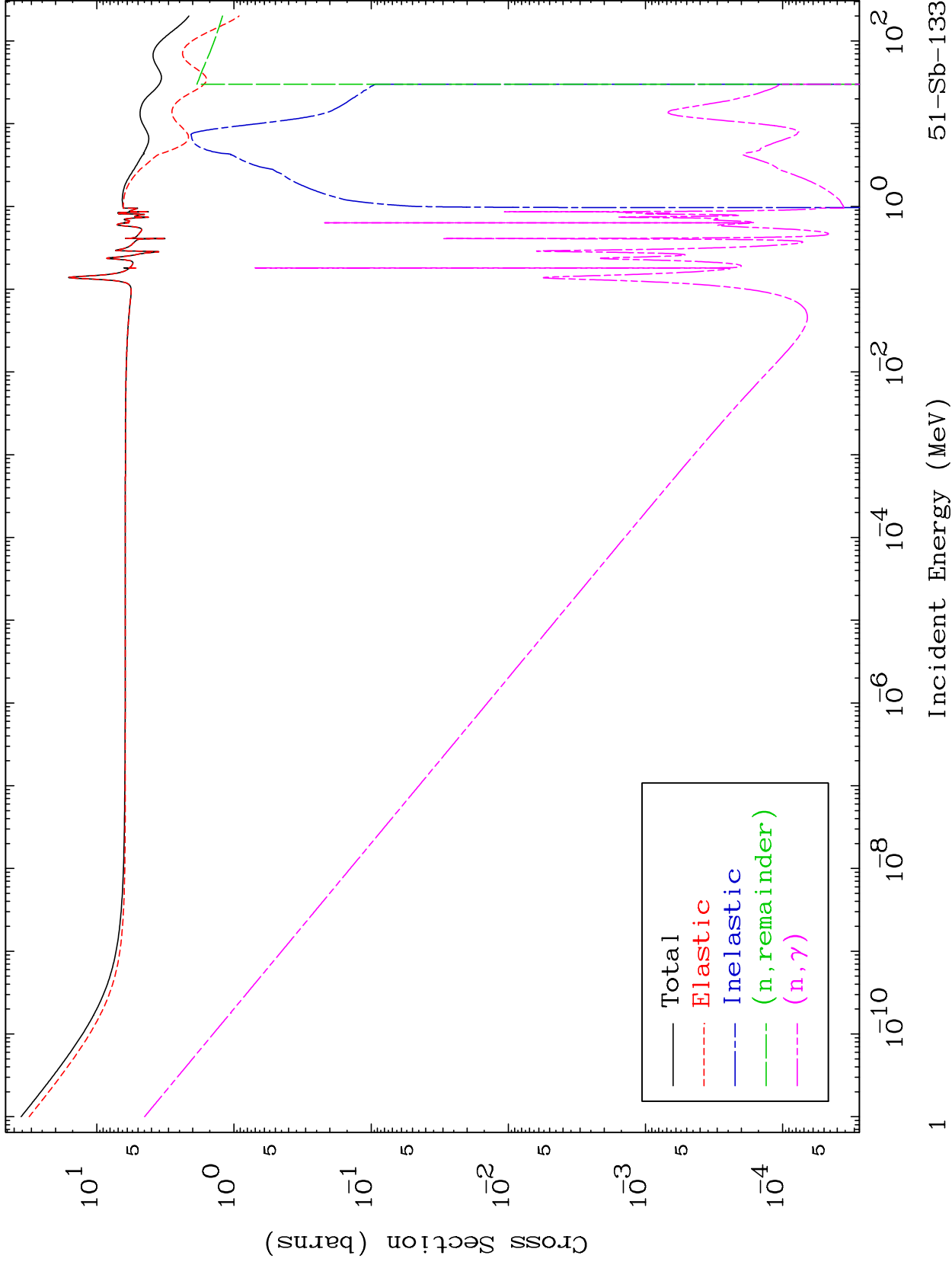
E.Mail:redcullen1@comcast.net  
Web:home.comcast.net/~redcullen1

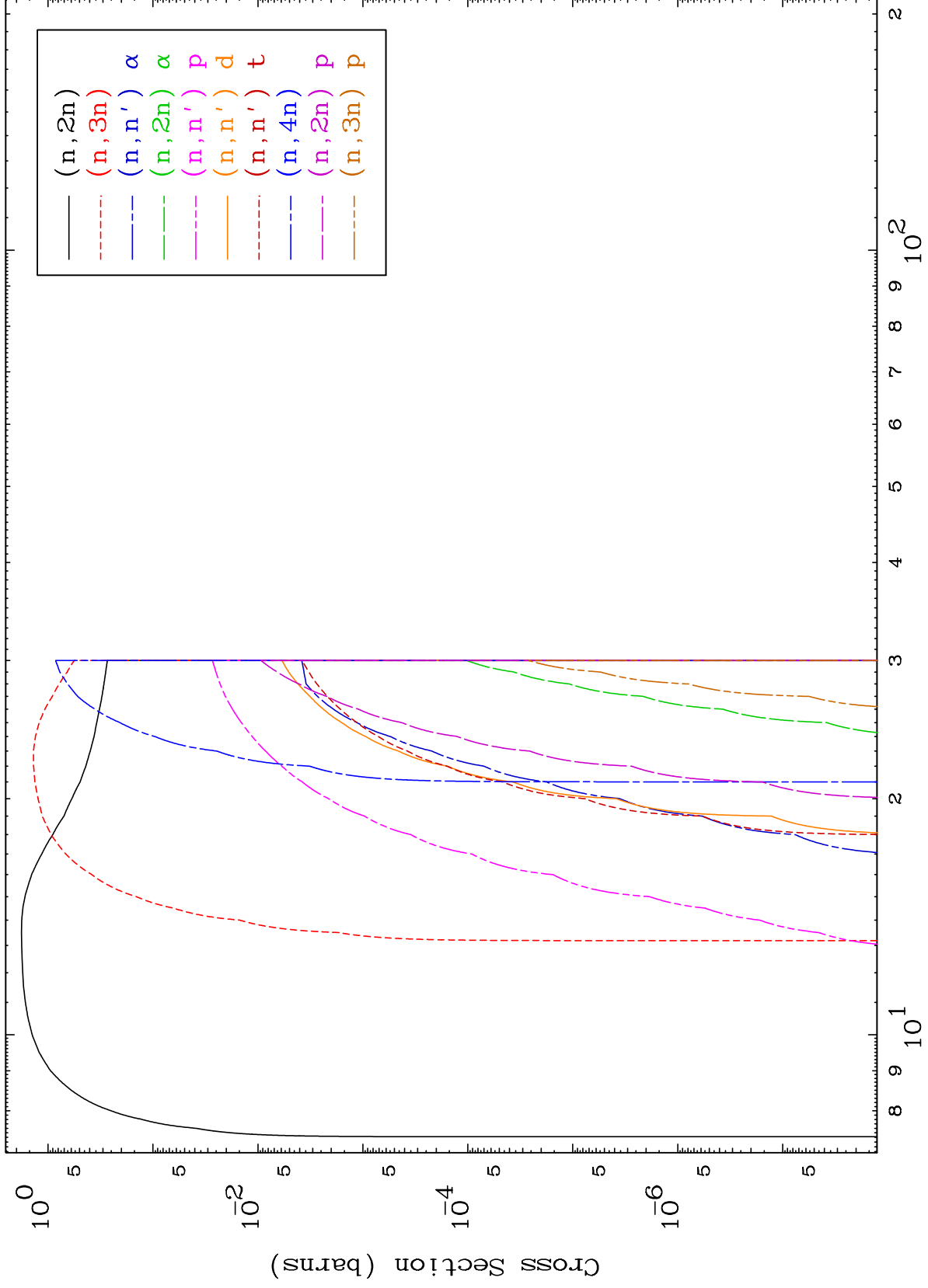
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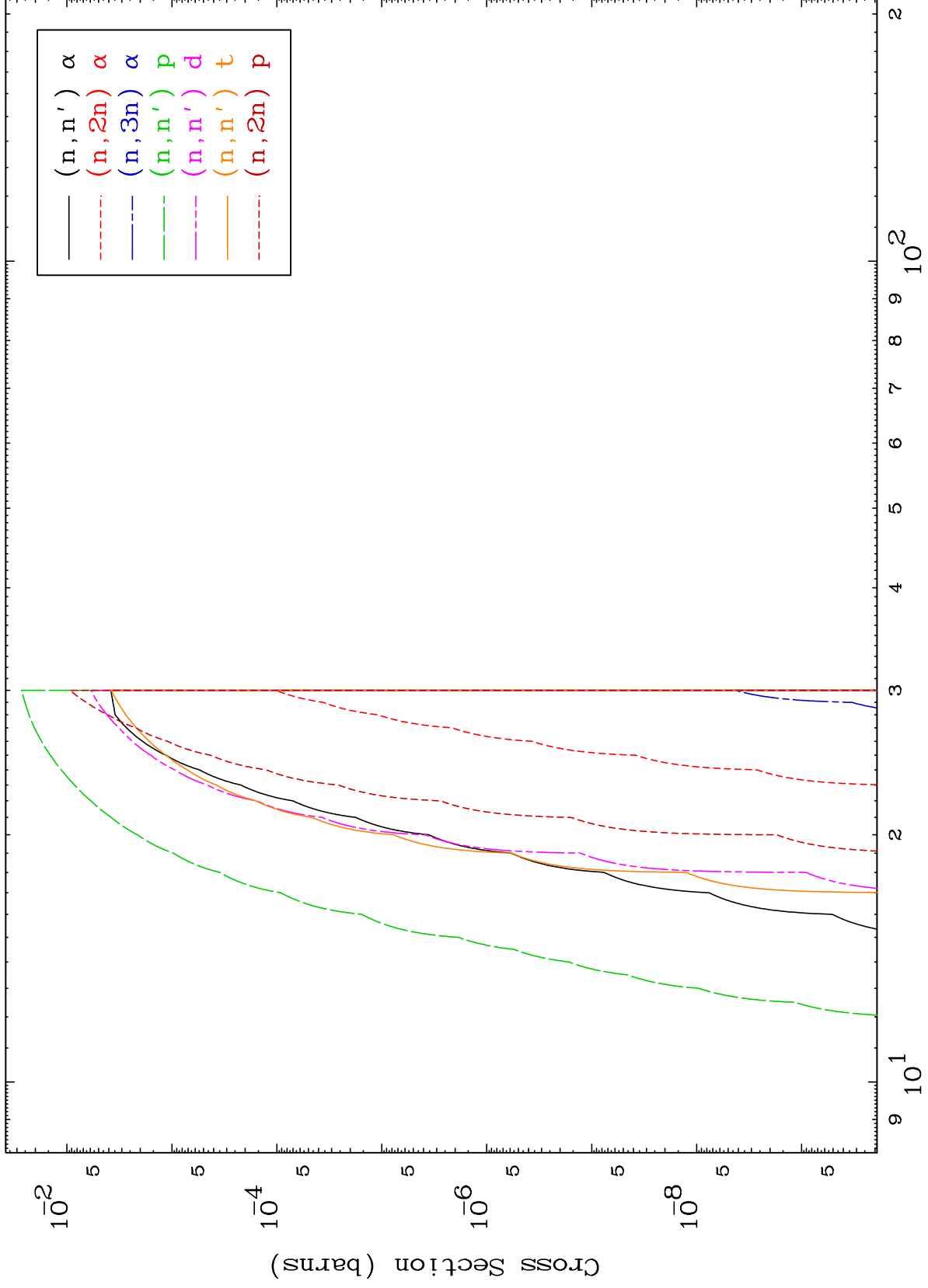
MAT 5161

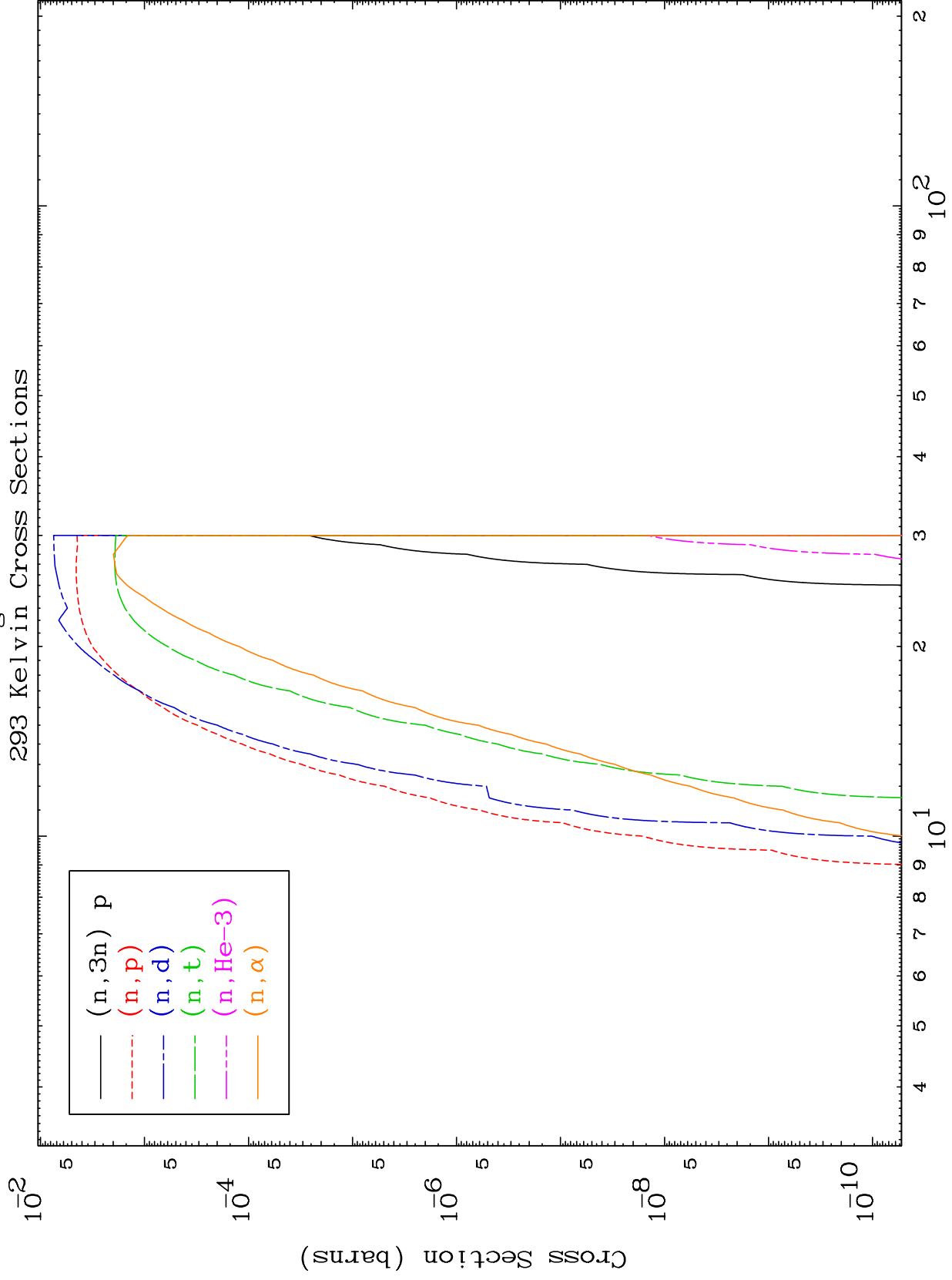
Major  
293 Kelvin Cross Sections

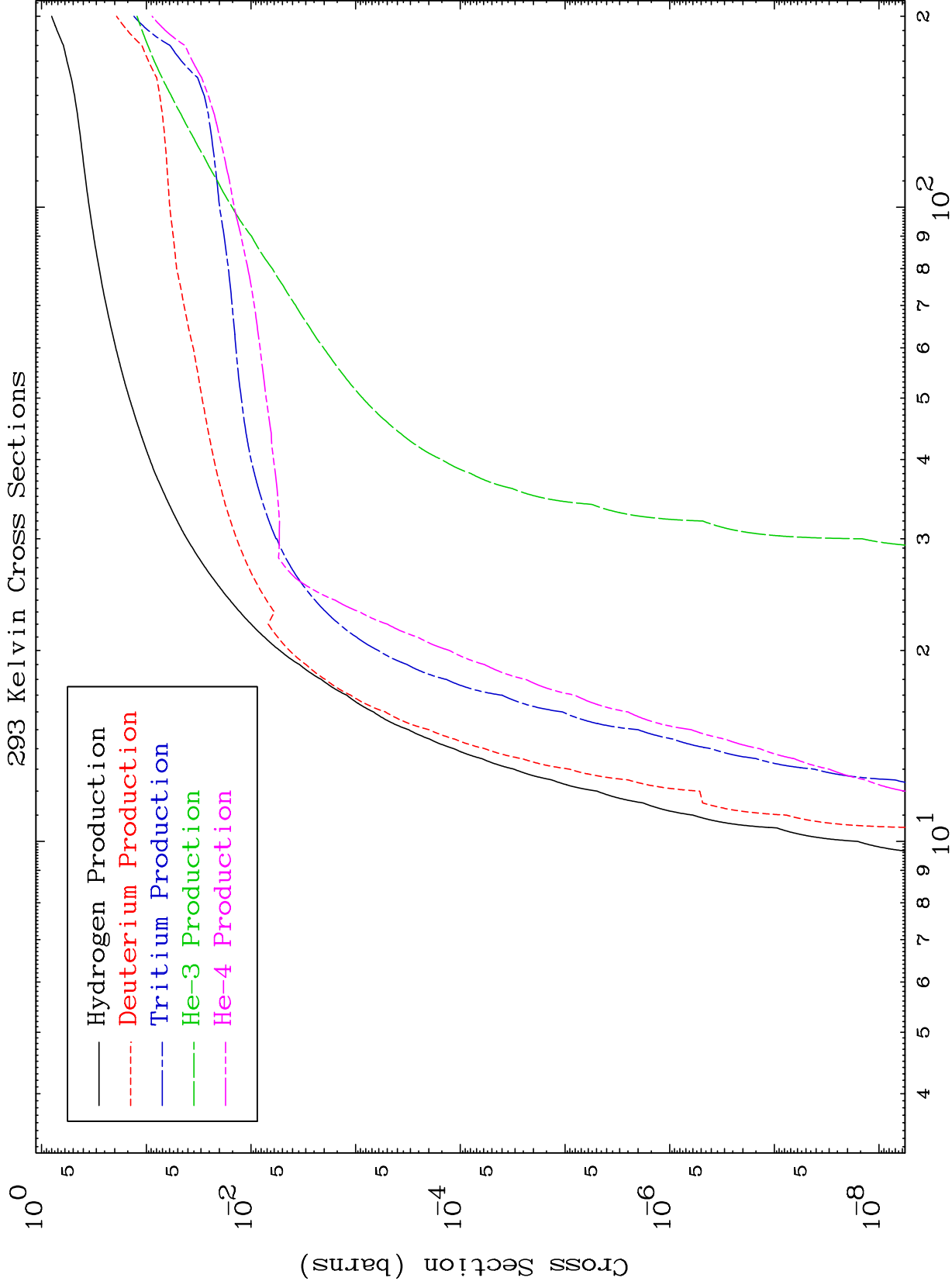
51-Sb-133







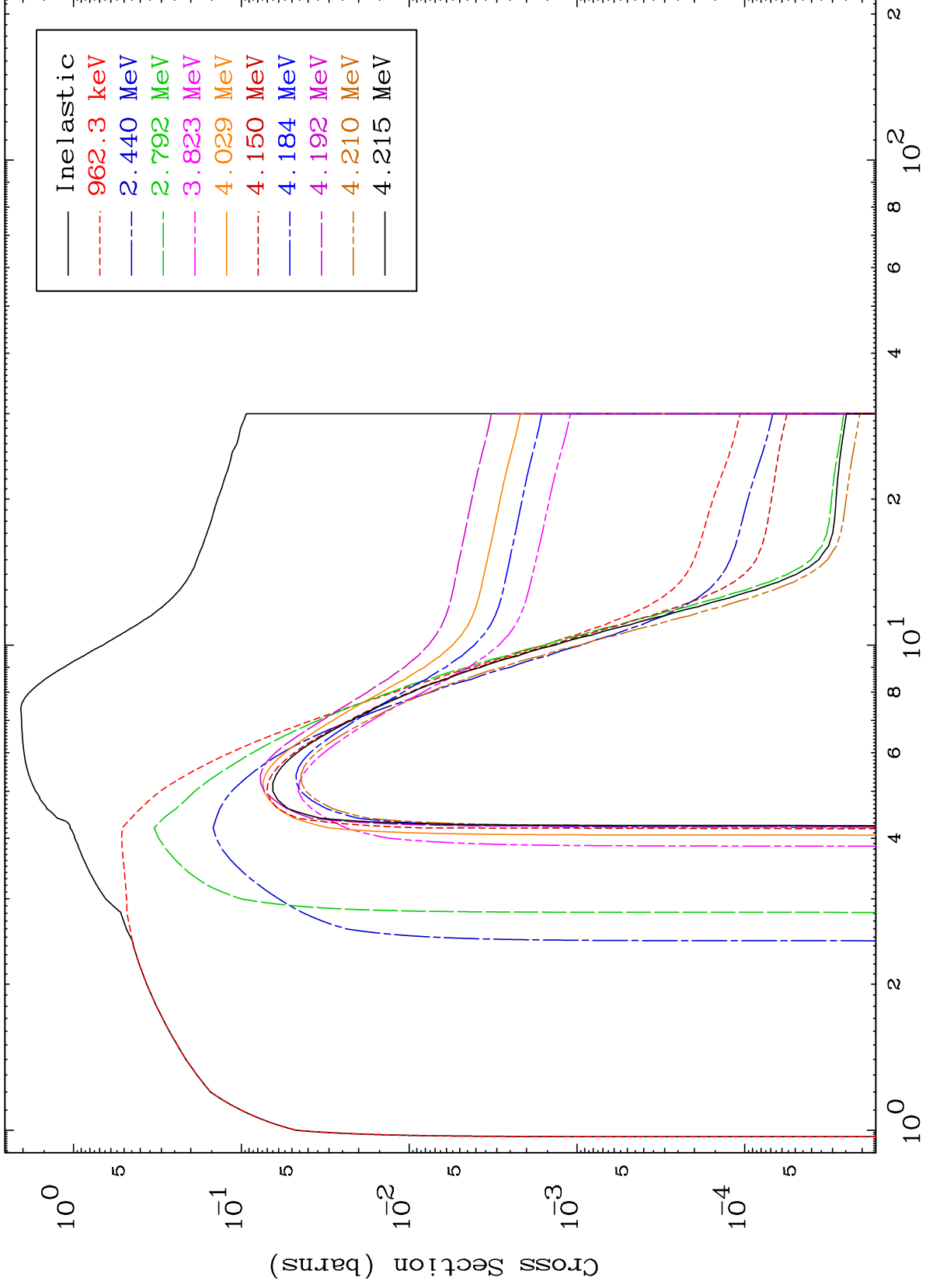




MAT 5161

(n,n') Level  
293 Kelvin Cross Sections

51-Sb-133



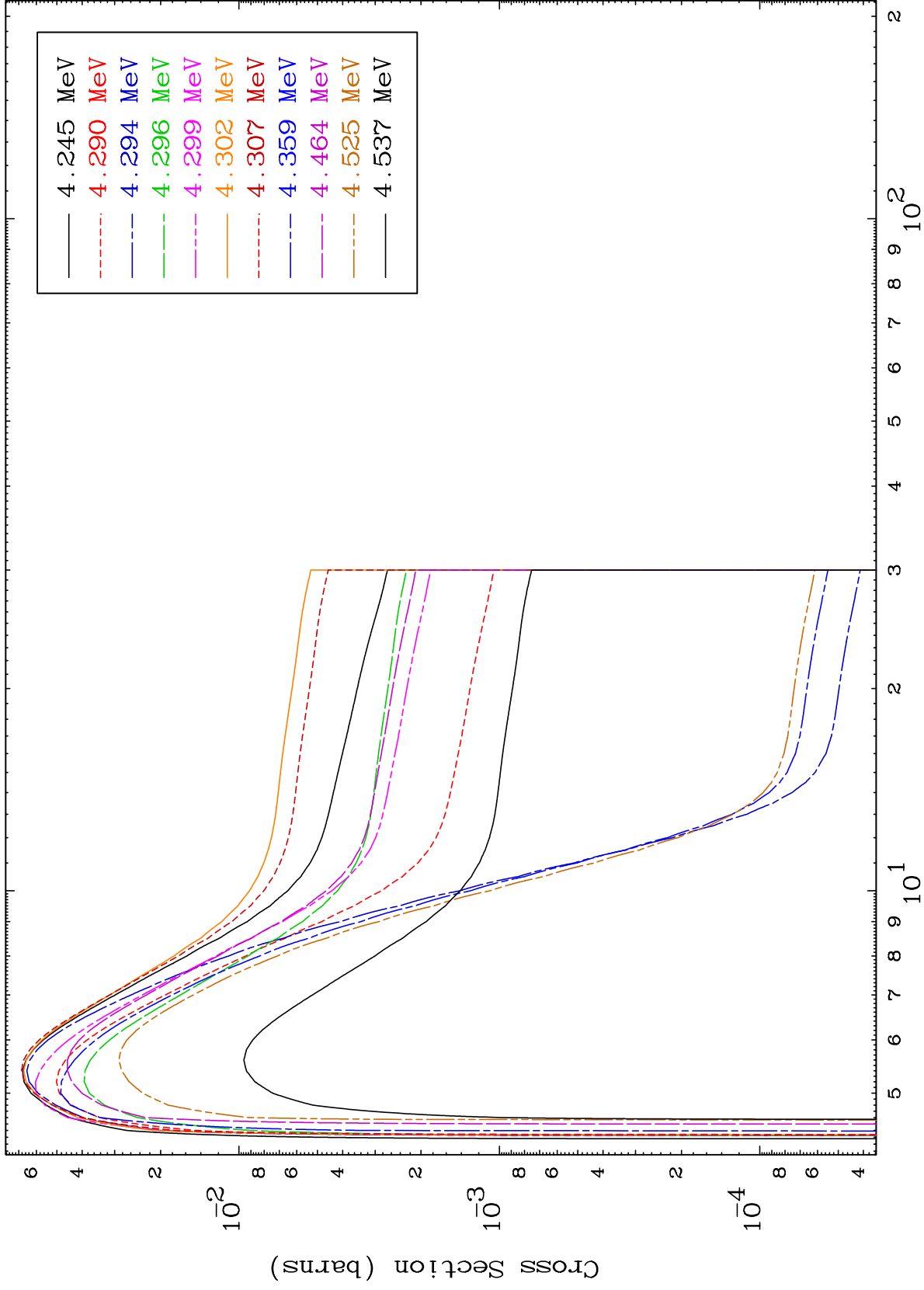
Incident Energy (MeV)

51-Sb-133

MAT 5161

(n,n') Level  
293 Kelvin Cross Sections

51-Sb-133

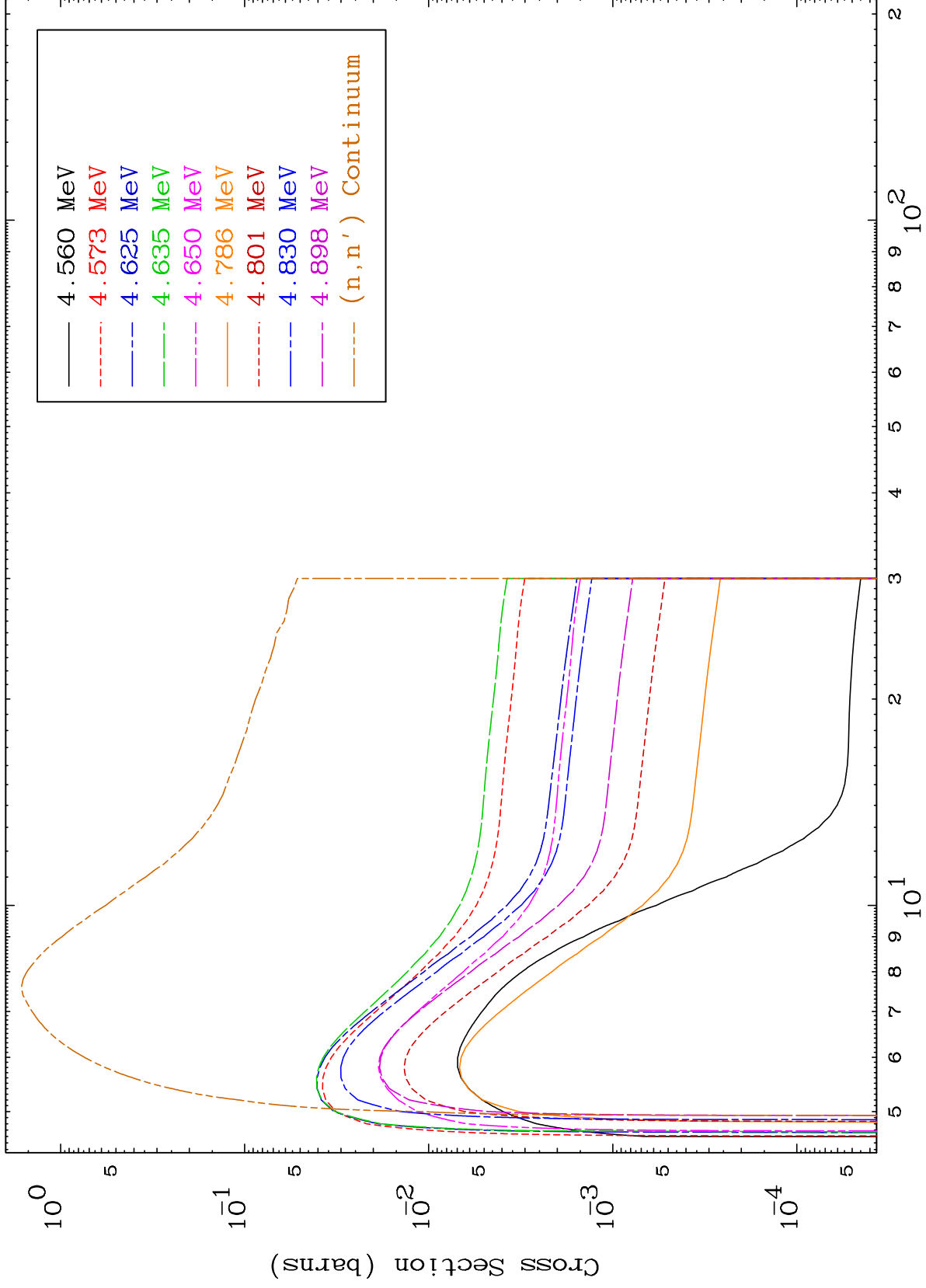


7

Incident Energy (MeV)

51-Sb-133

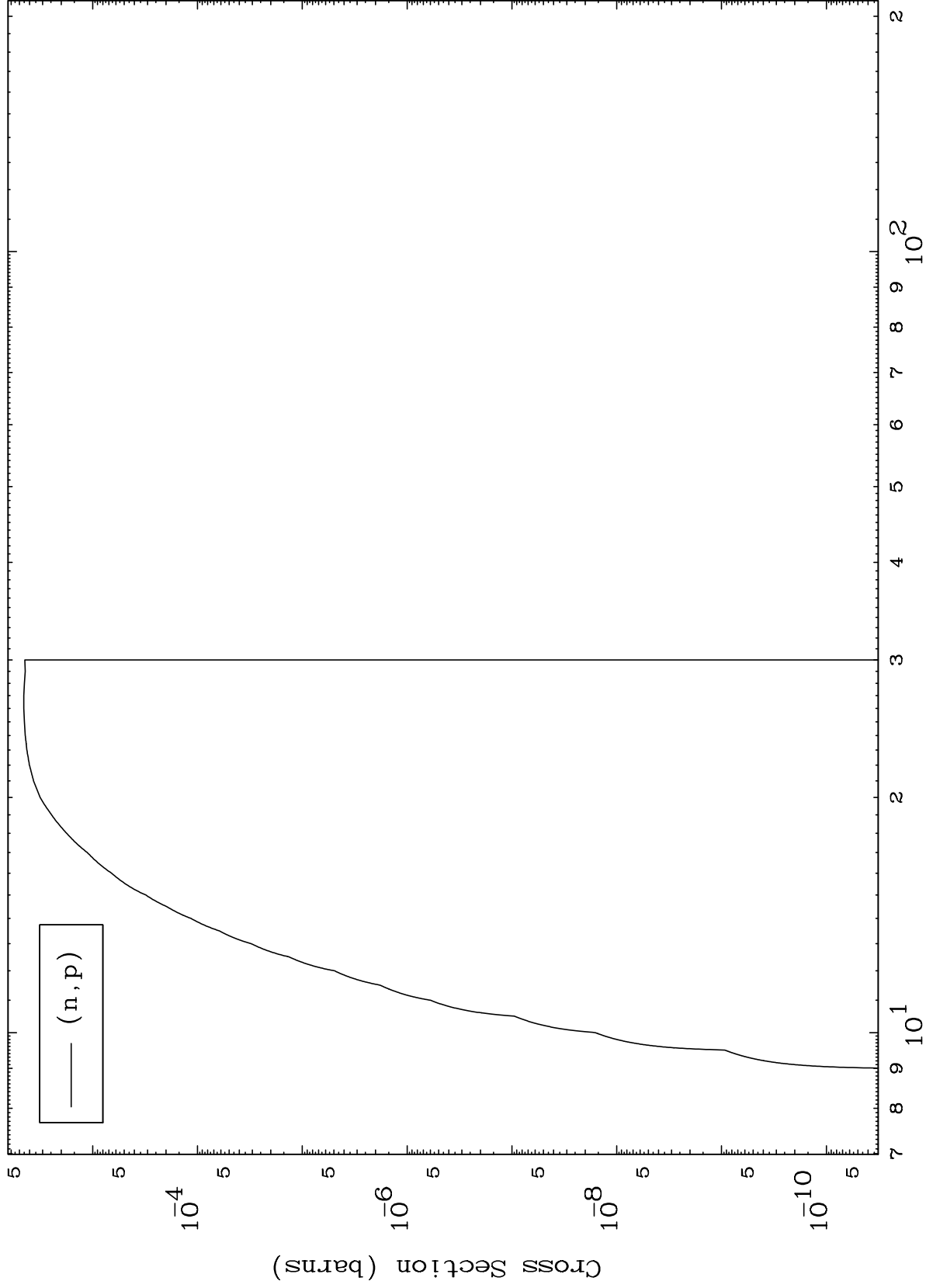




MAT 5161

(n,p) Levels  
293 Kelvin Cross Sections

51-Sb-133



9

Incident Energy (MeV)

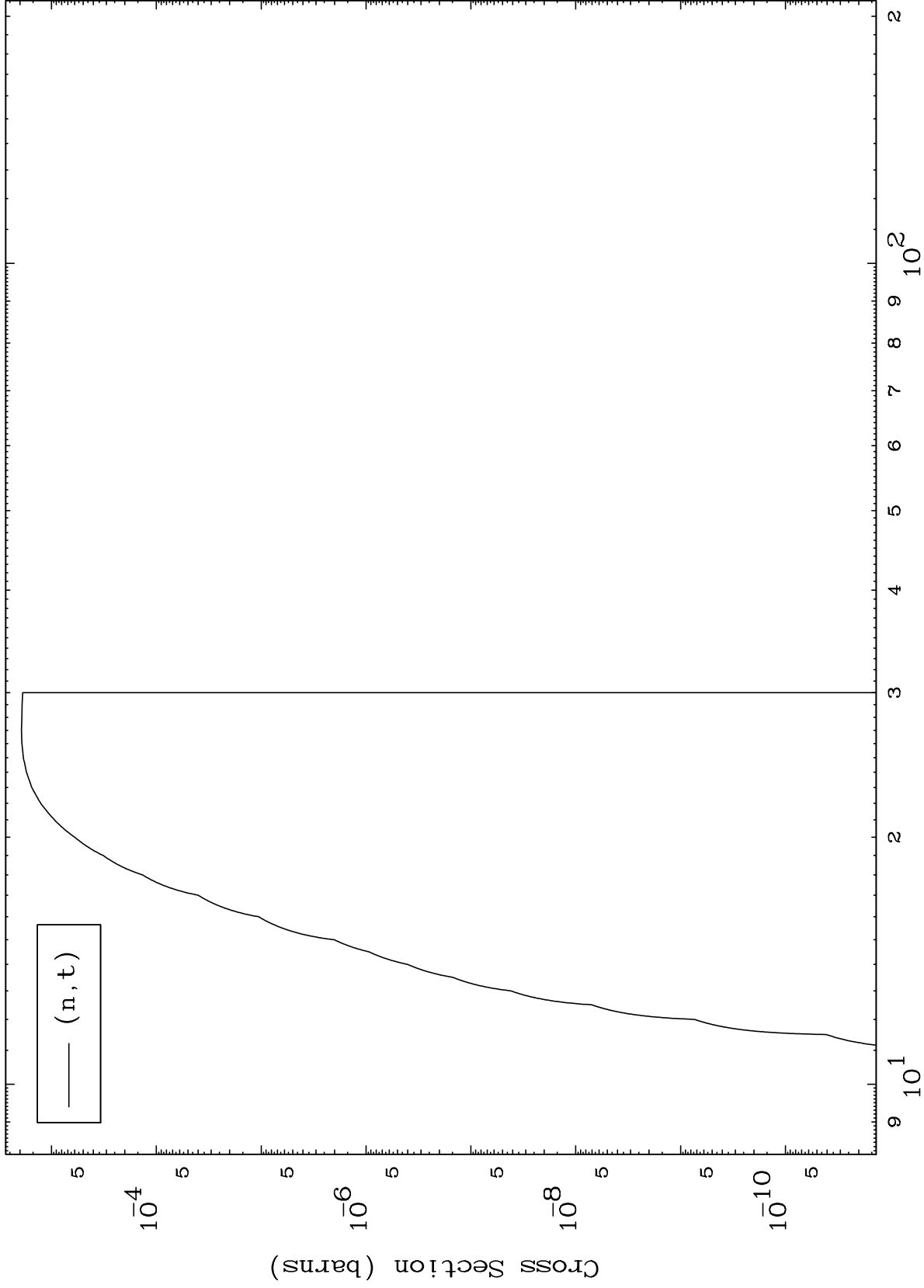
51-Sb-133



MAT 5161

(n,t) Levels  
293 Kelvin Cross Sections

51-Sb-133



11

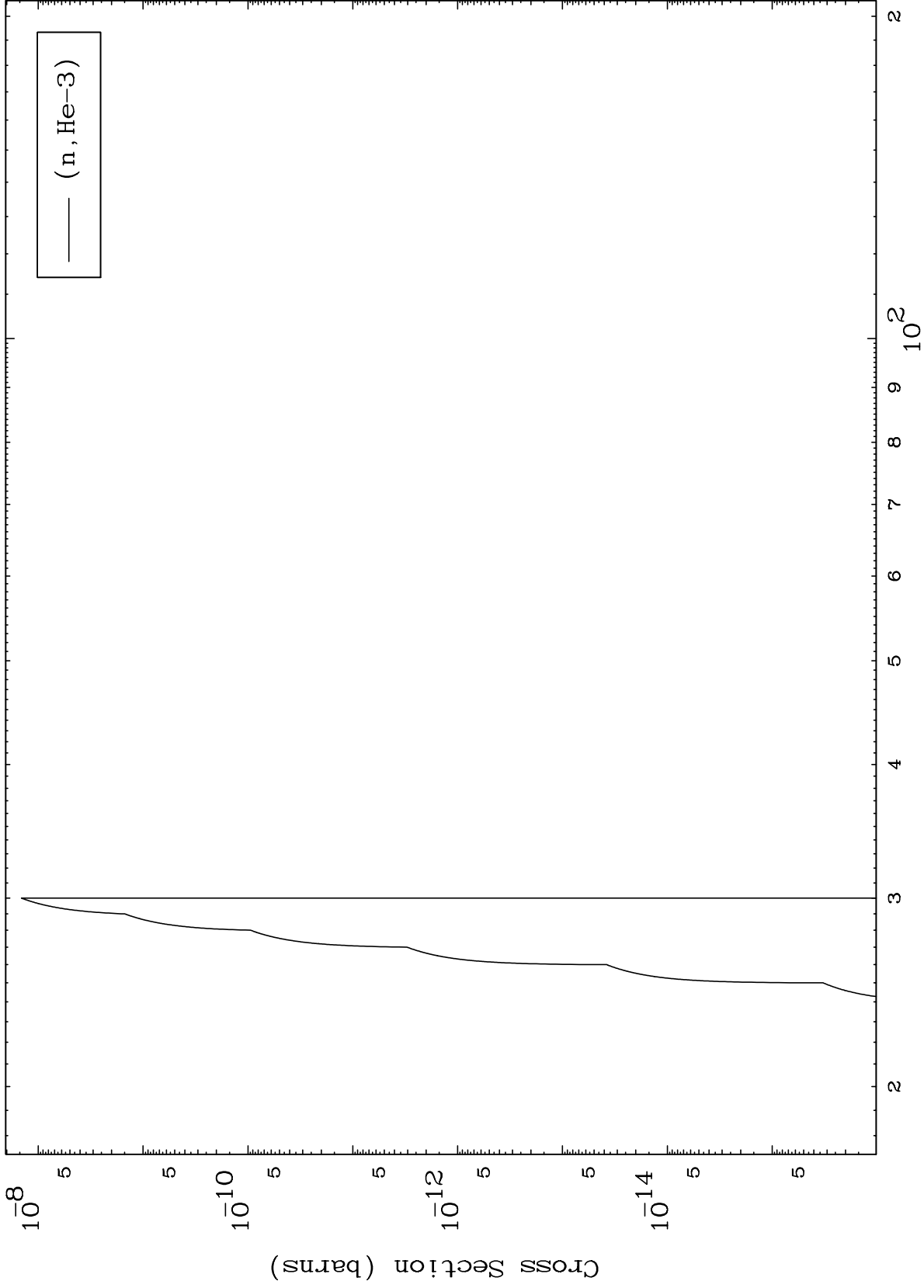
Incident Energy (MeV)

51-Sb-133

MAT 5161

(n,He3) Levels  
293 Kelvin Cross Sections

51-Sb-133



12

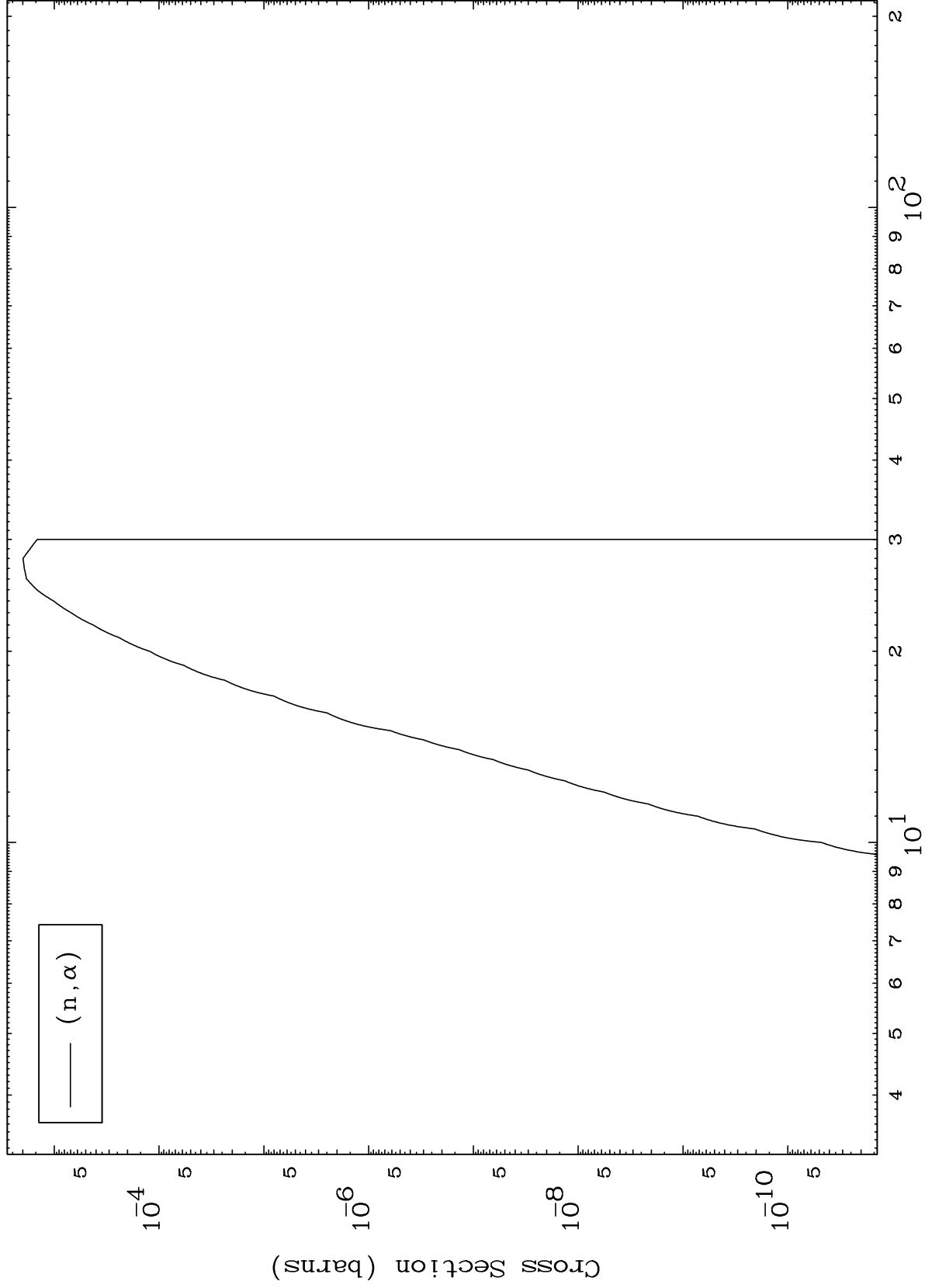
Incident Energy (MeV)

51-Sb-133

MAT 5161

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

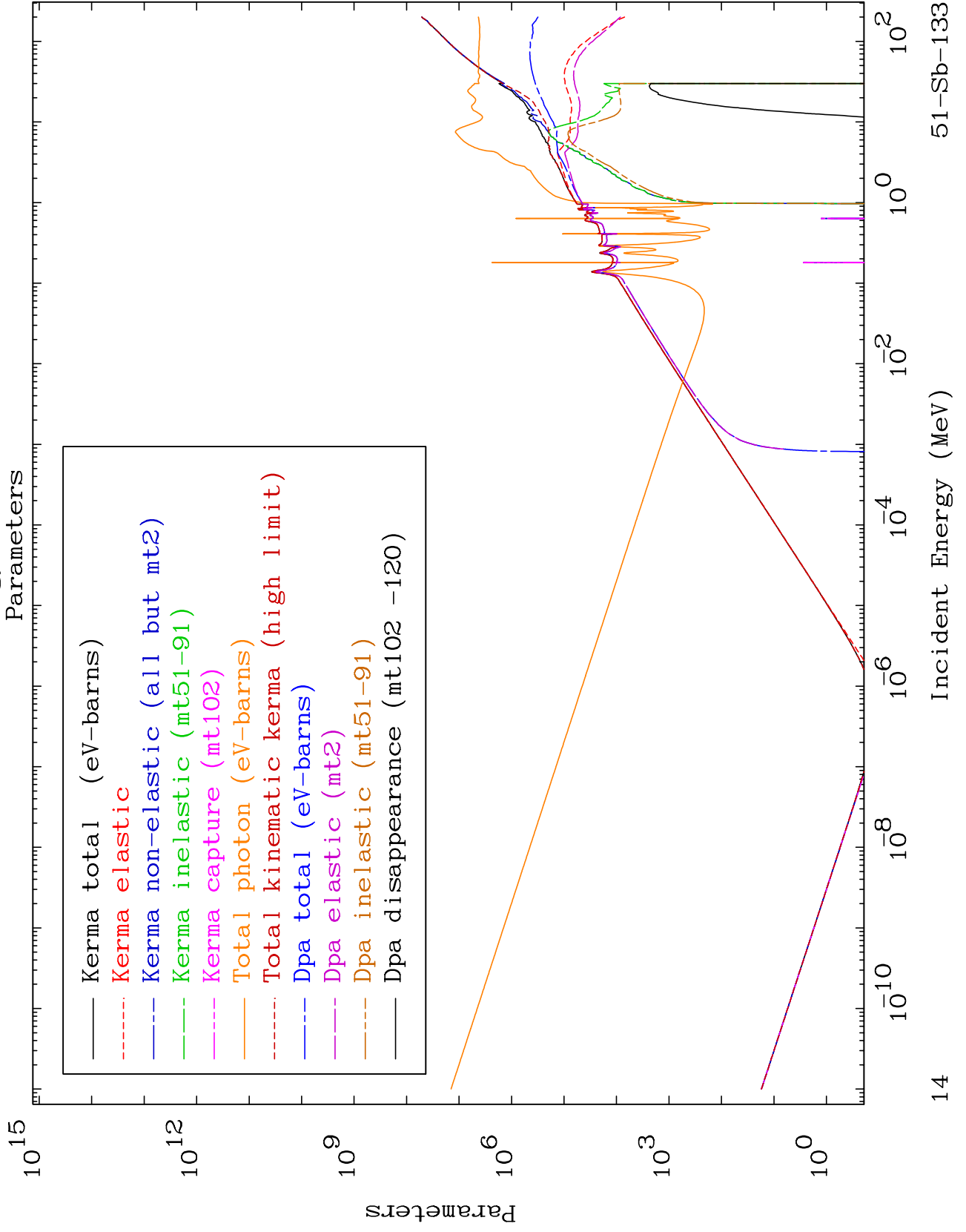
51-Sb-133



13

Incident Energy (MeV)

51-Sb-133



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51-Sb-133

Elastic Legendre Coefficients

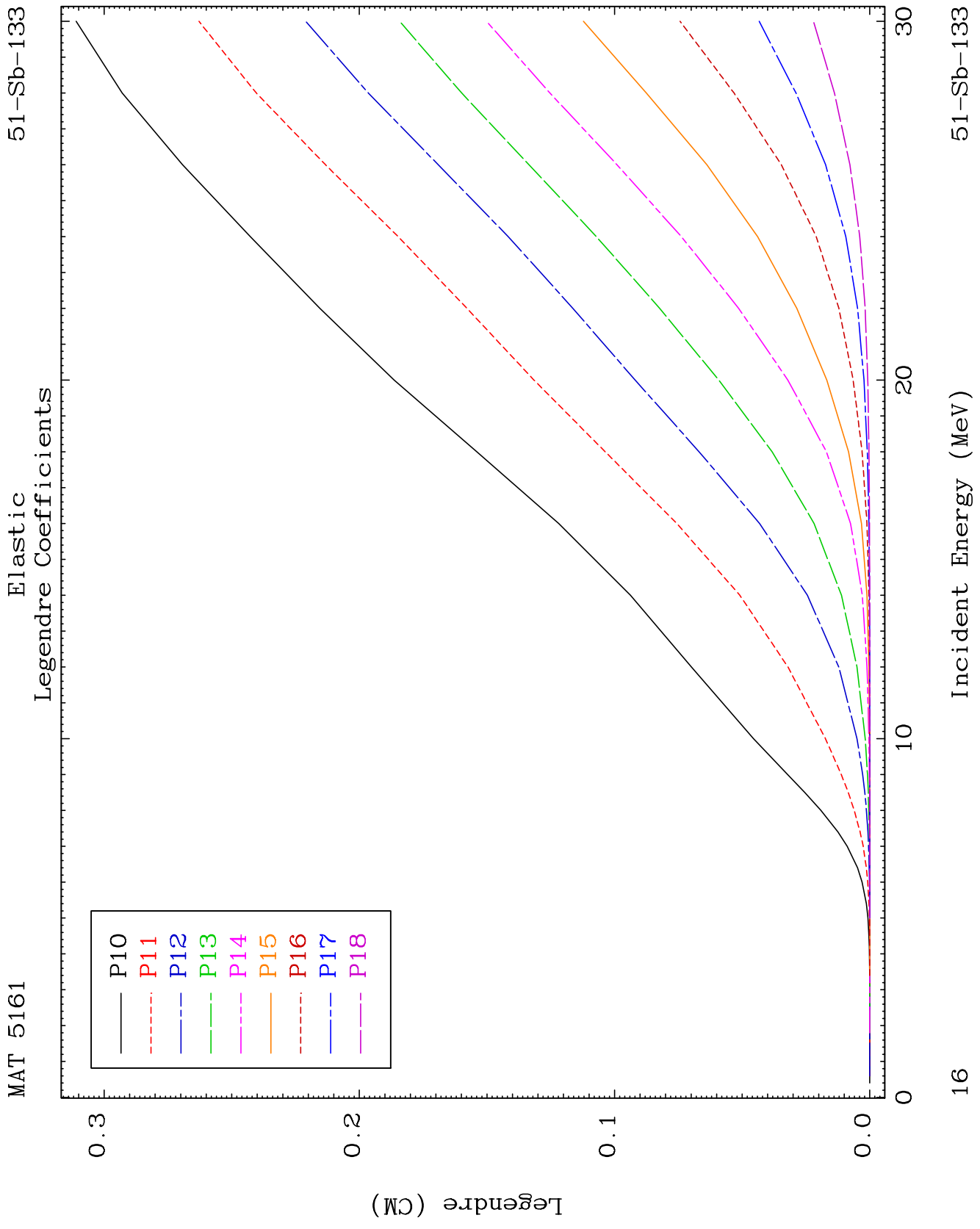


51-Sb-133

Incident Energy (MeV)

15

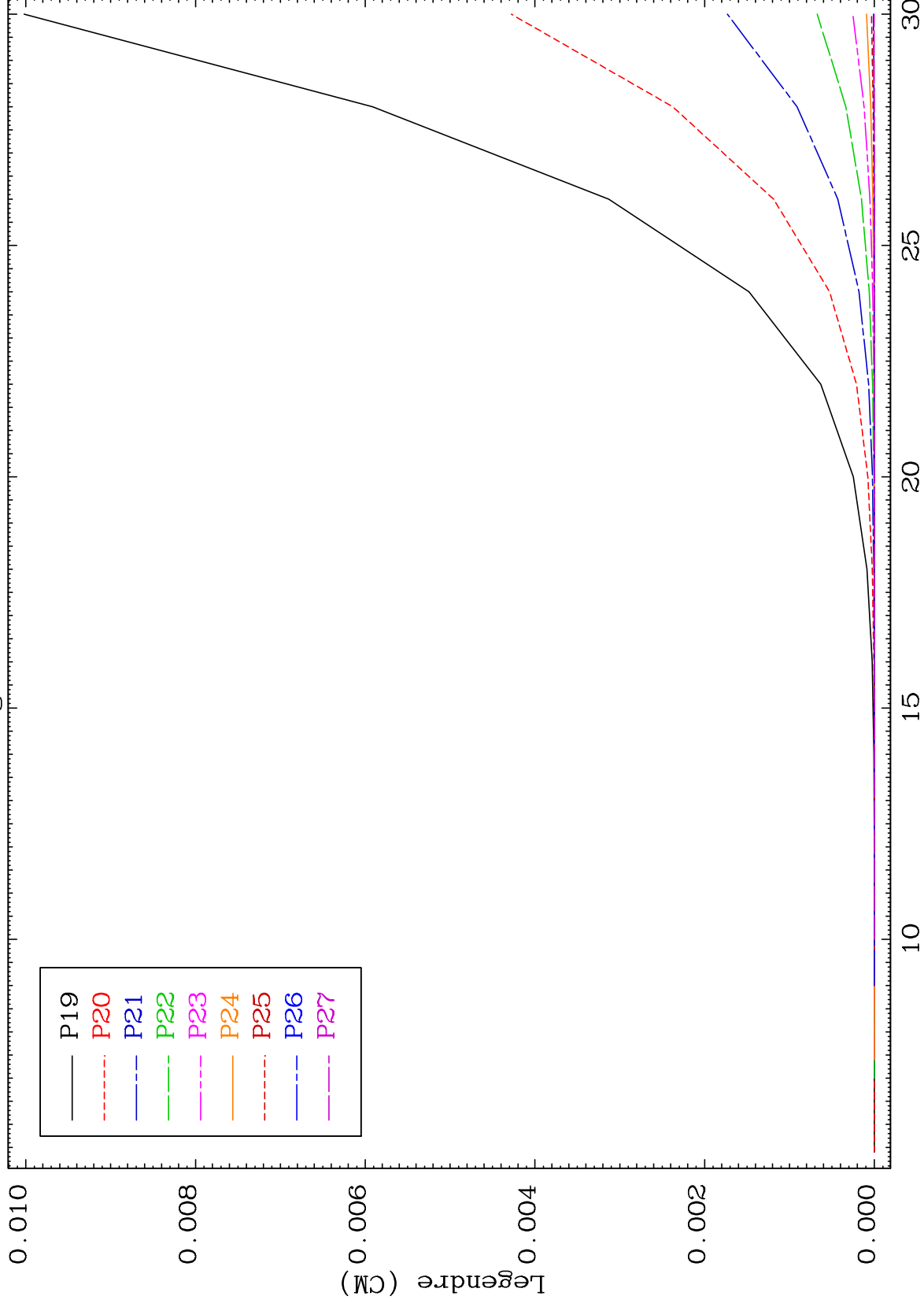




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Elastic  
Legendre Coefficients

51-Sb-133



17

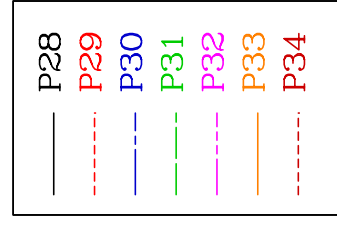
Incident Energy (MeV)

51-Sb-133

MAT 5161

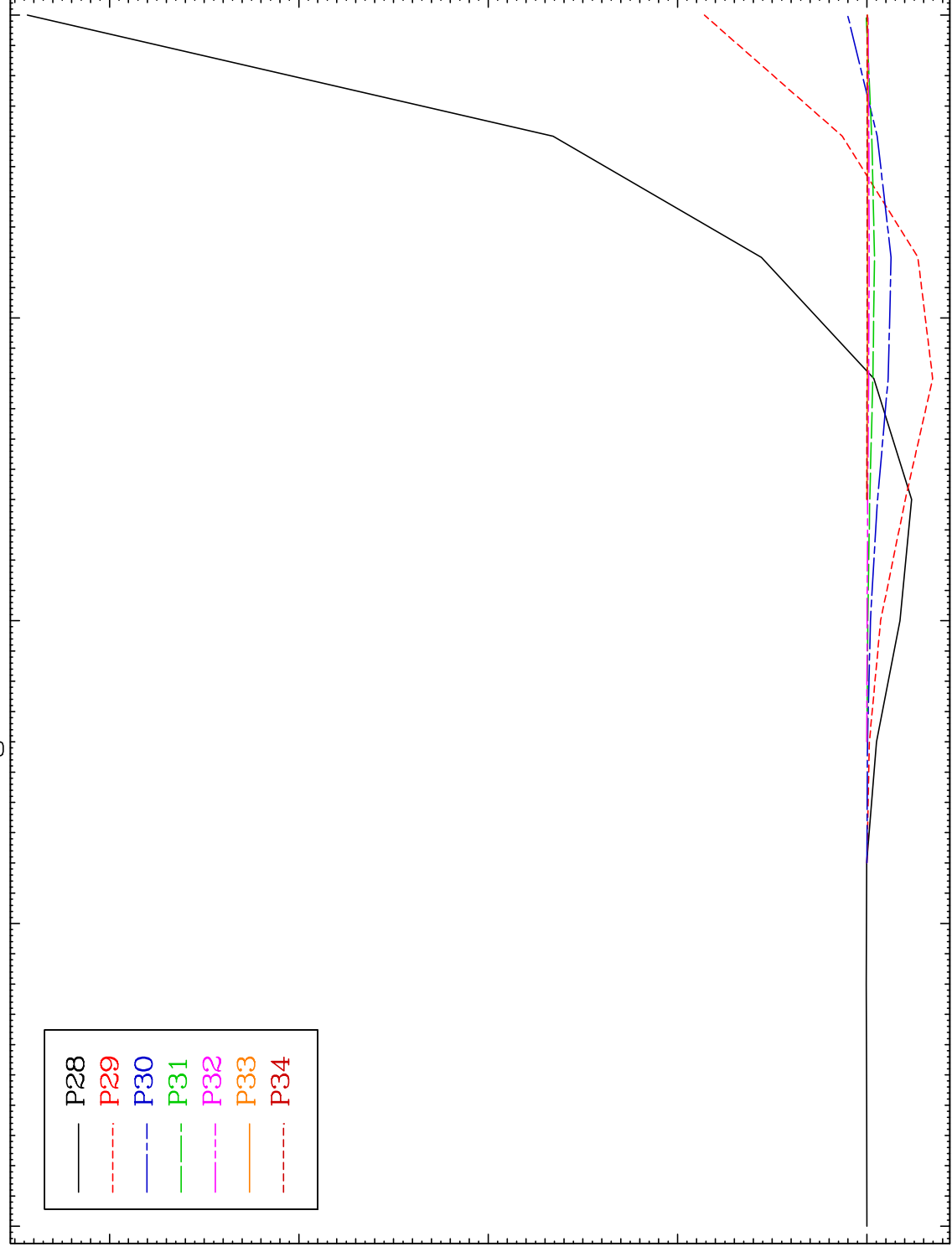
Elastic Legendre Coefficients

51-Sb-133



$\times 10^{-7}$

Legendre (CM)



10

15

20

25

30

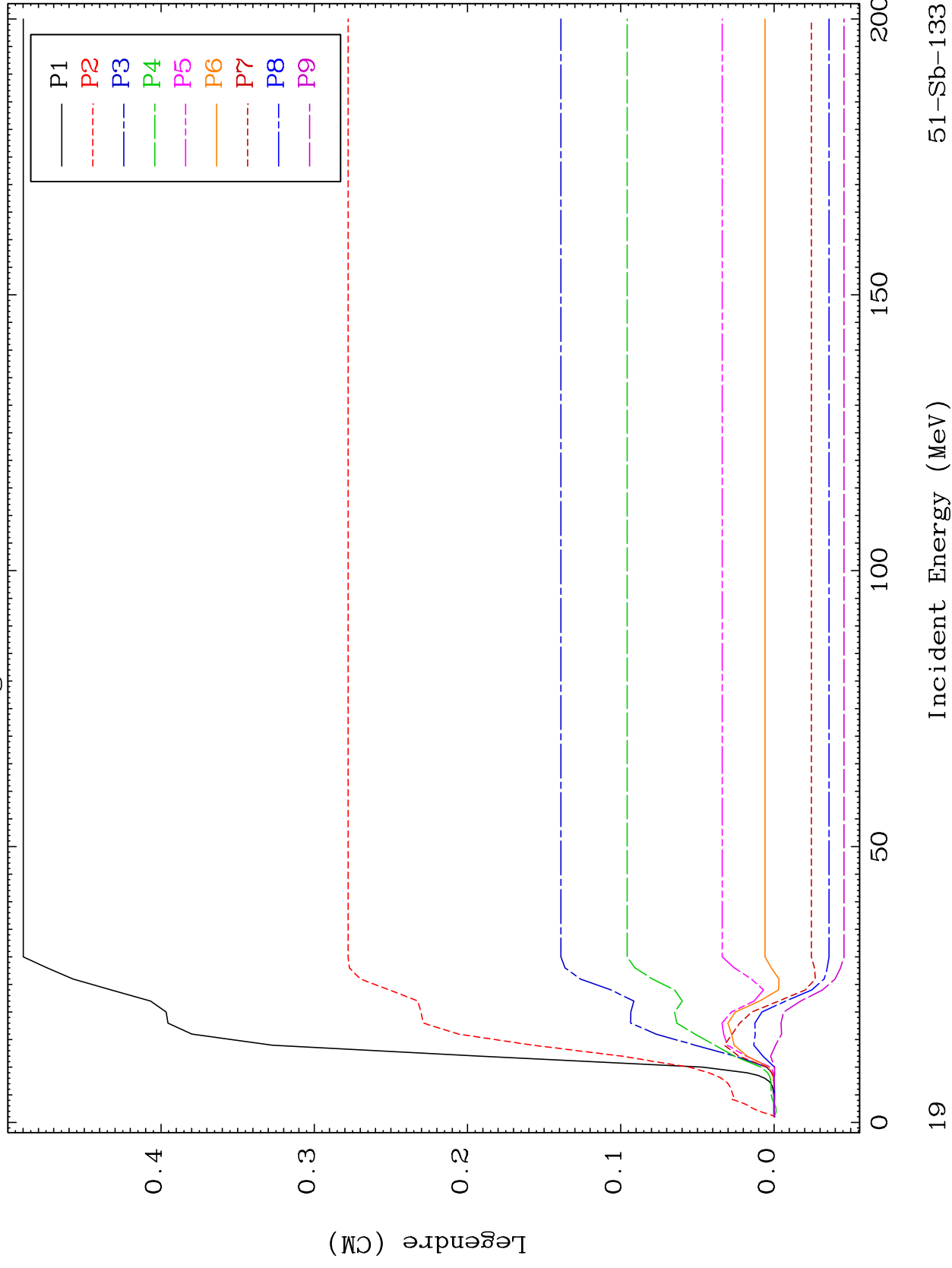
Incident Energy (MeV)

51-Sb-133

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962.3 keV (n,n') Level  
Legendre Coefficients

51-Sb-133



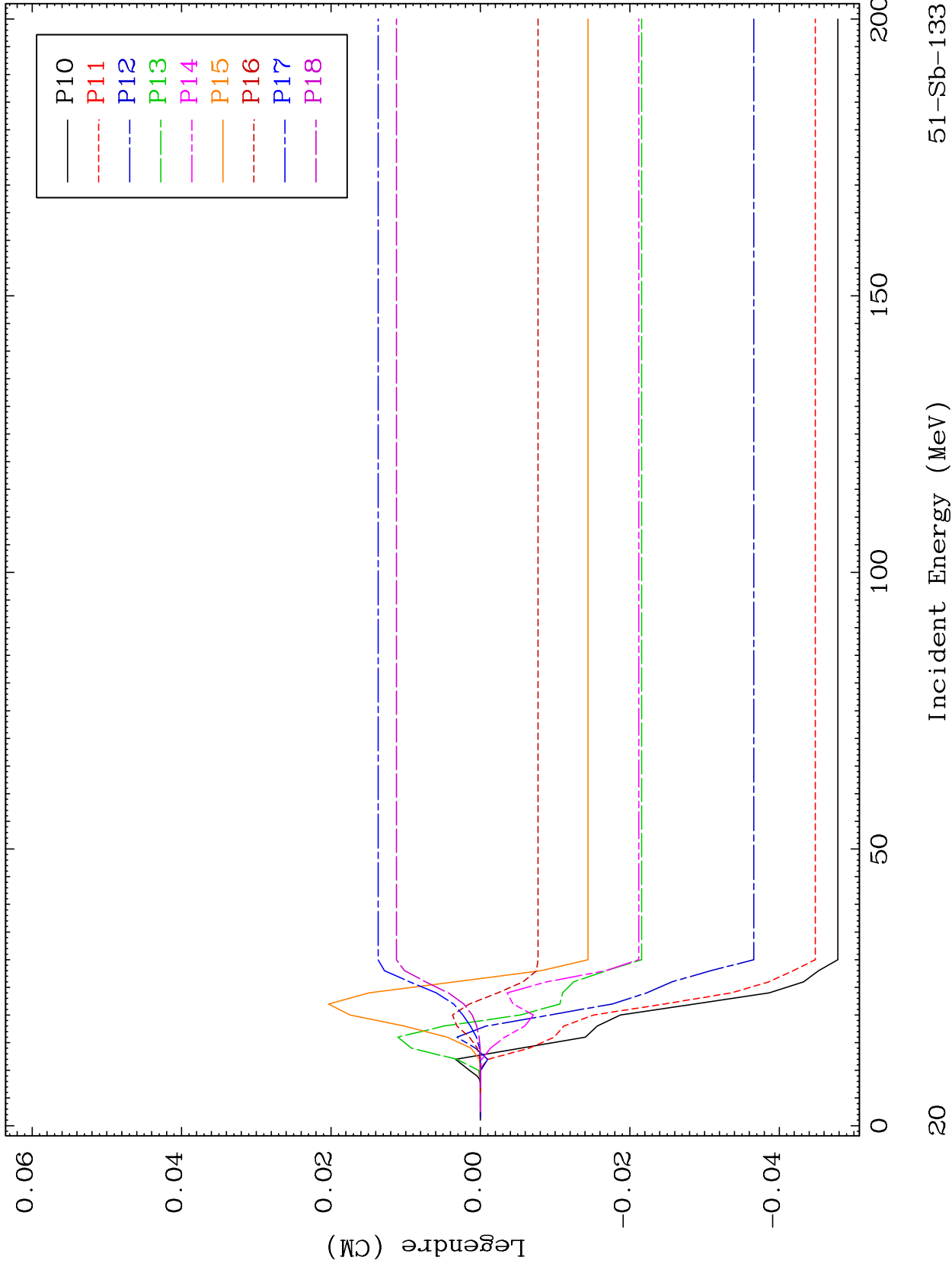
19

51-Sb-133

MAT 5161

962.3 keV (n,n') Level  
Legendre Coefficients

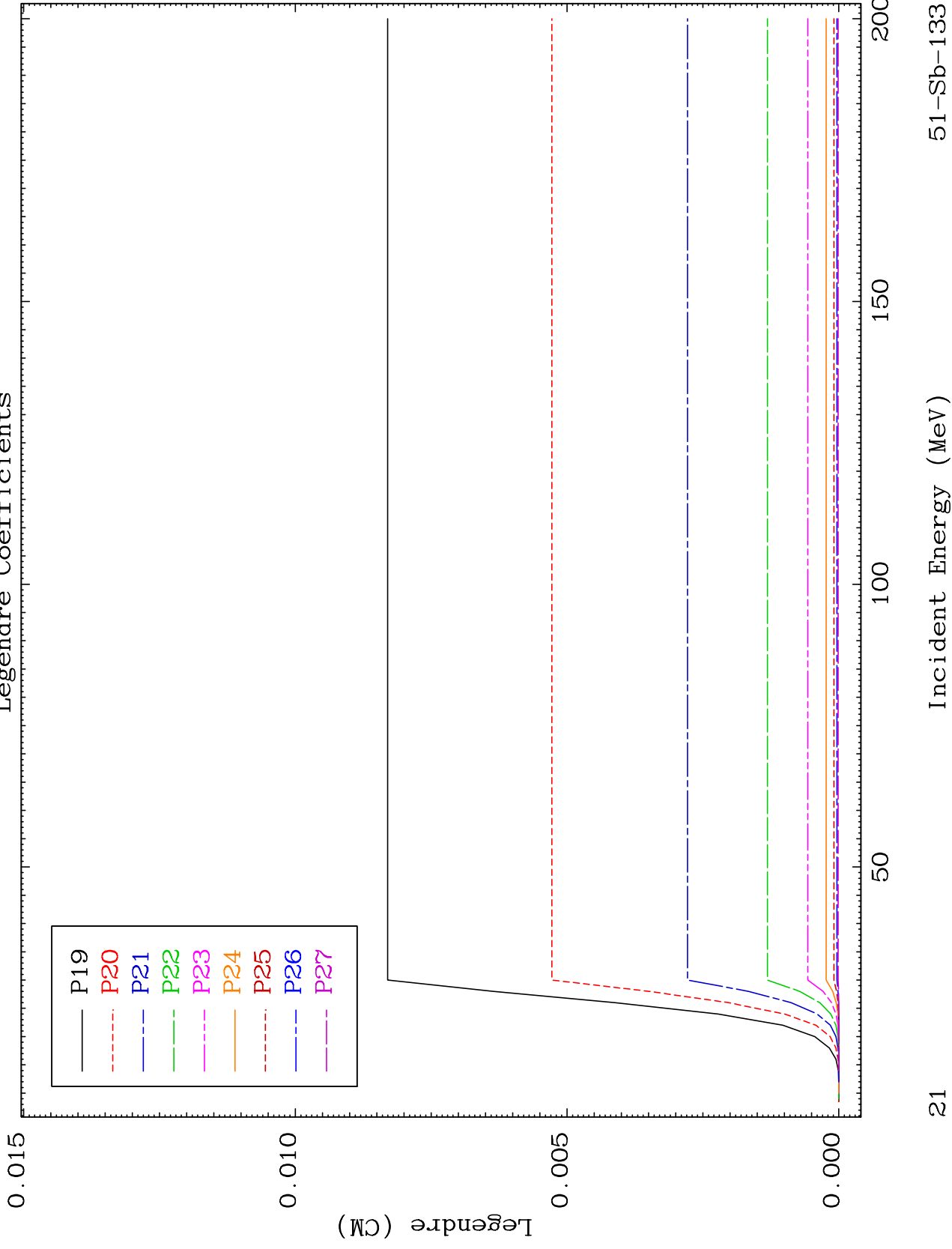
51-Sb-133



MAT 5161

962.3 keV (n,n') Level  
Legendre Coefficients

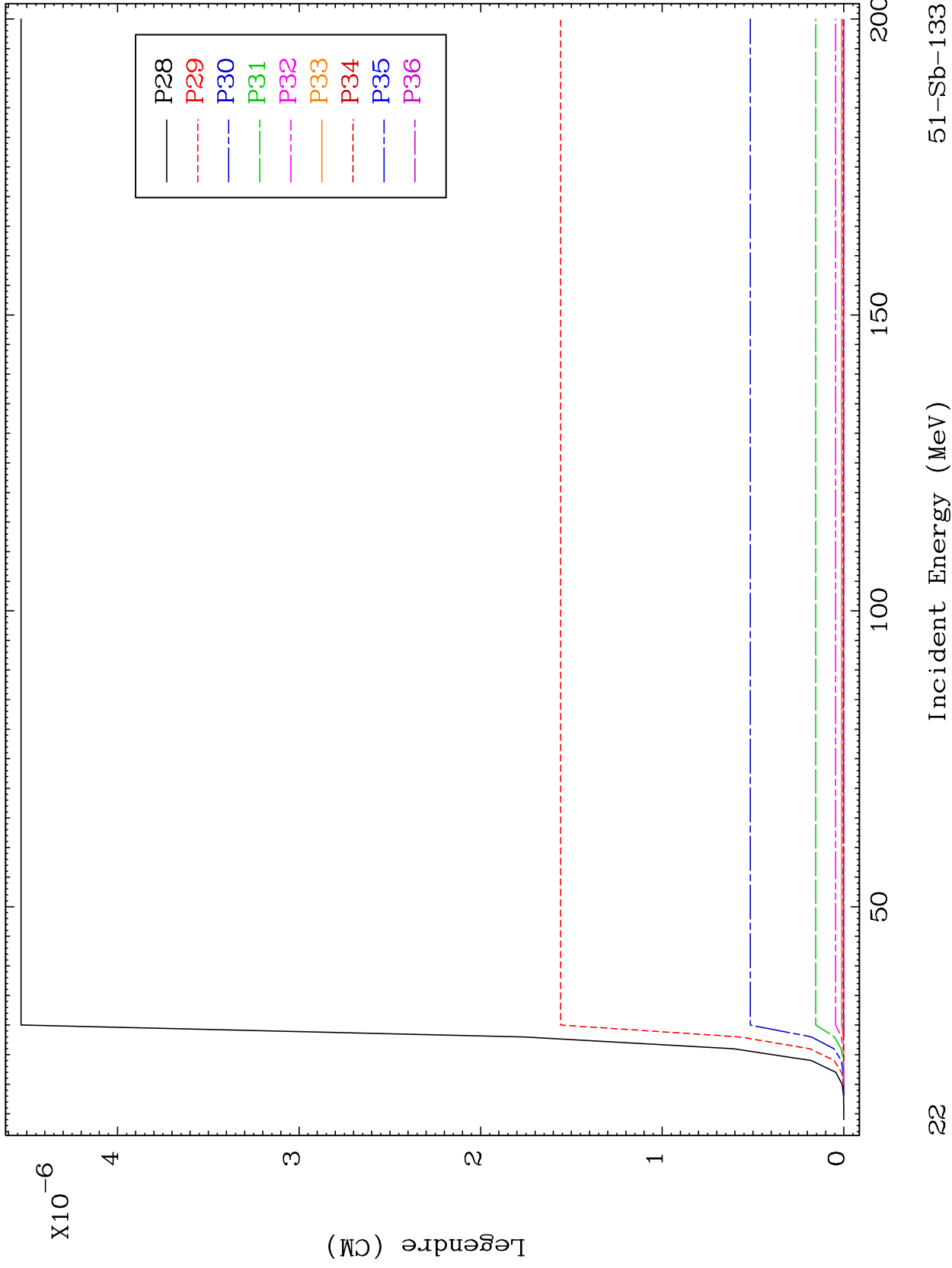
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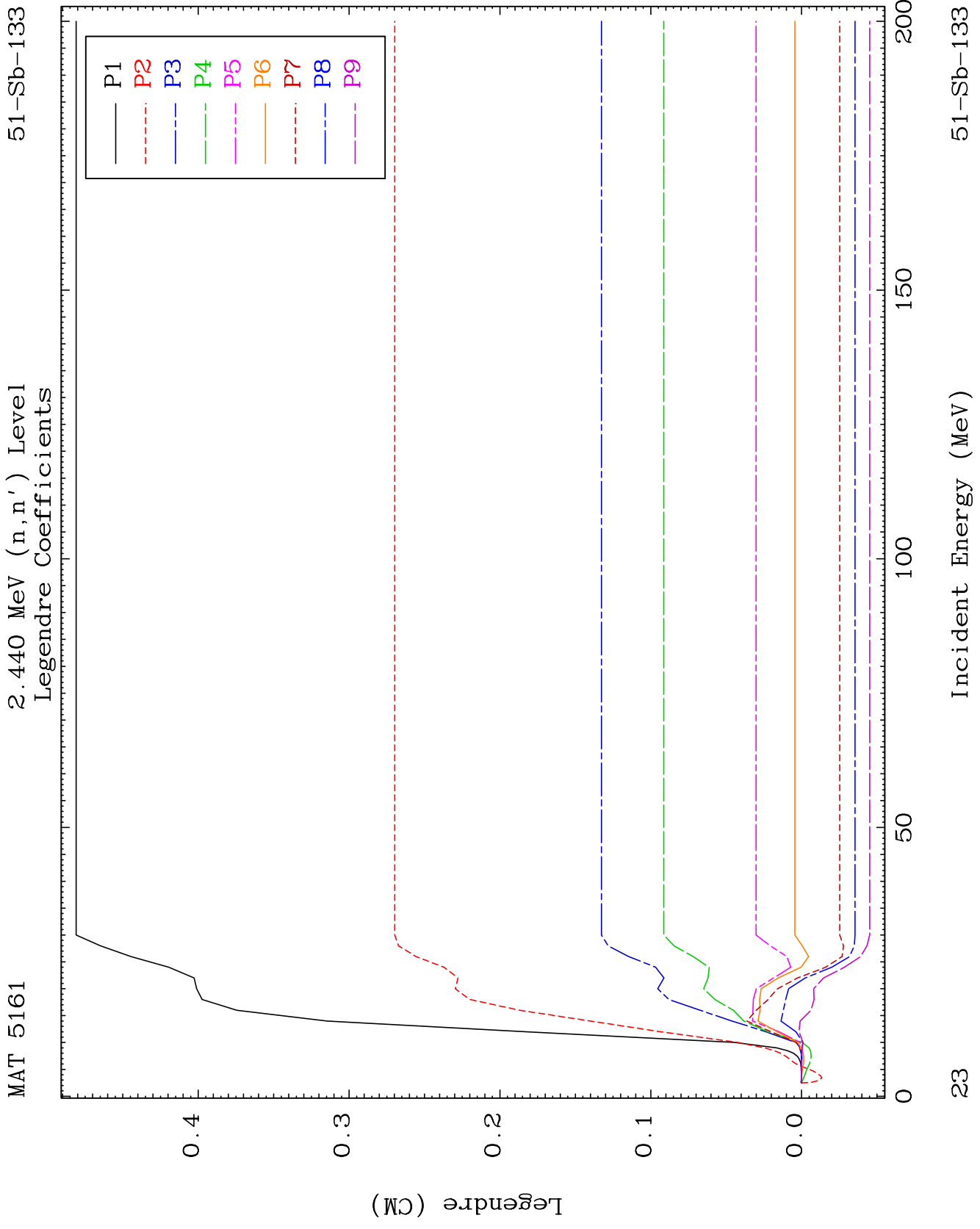


21

Incident Energy (MeV)

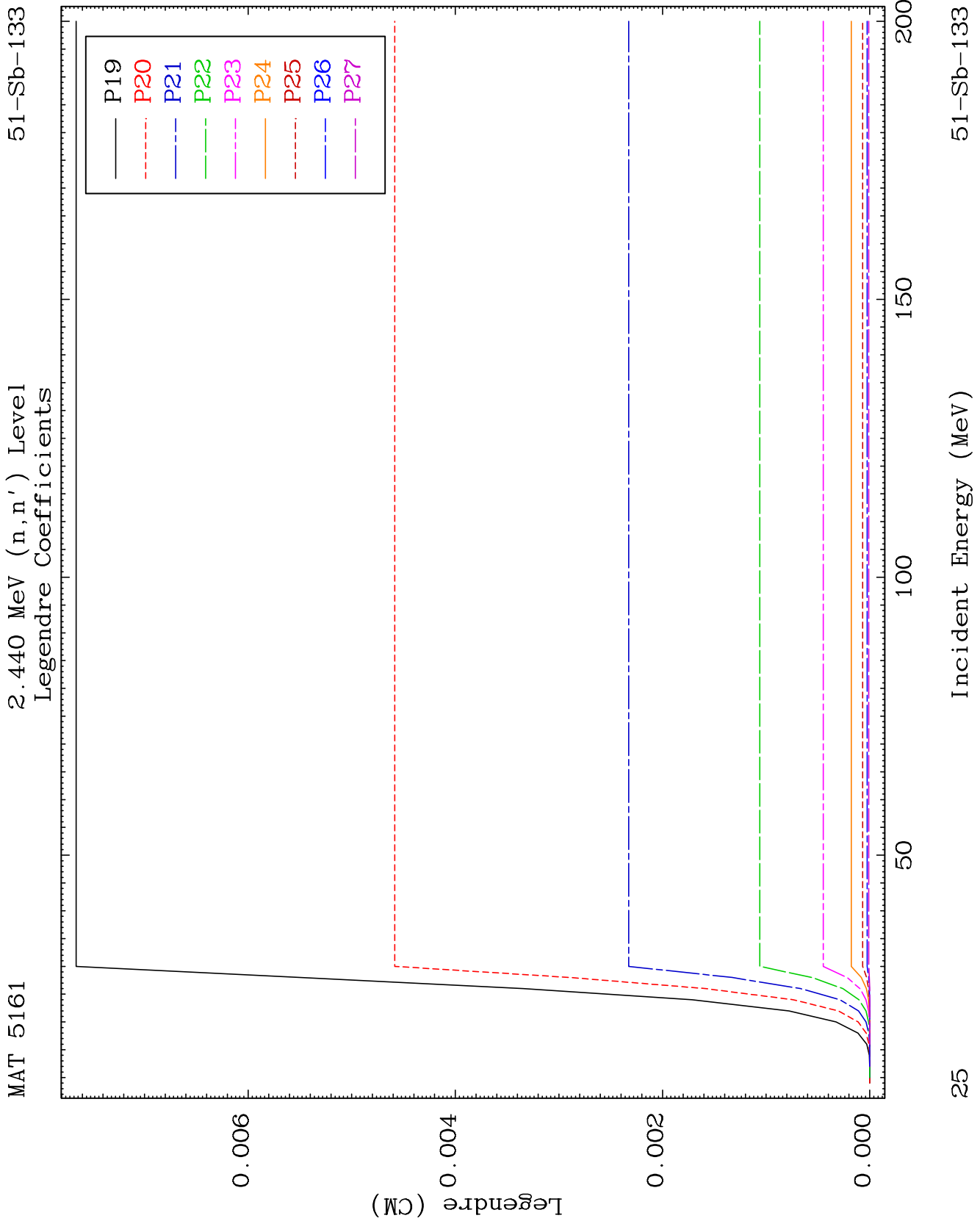
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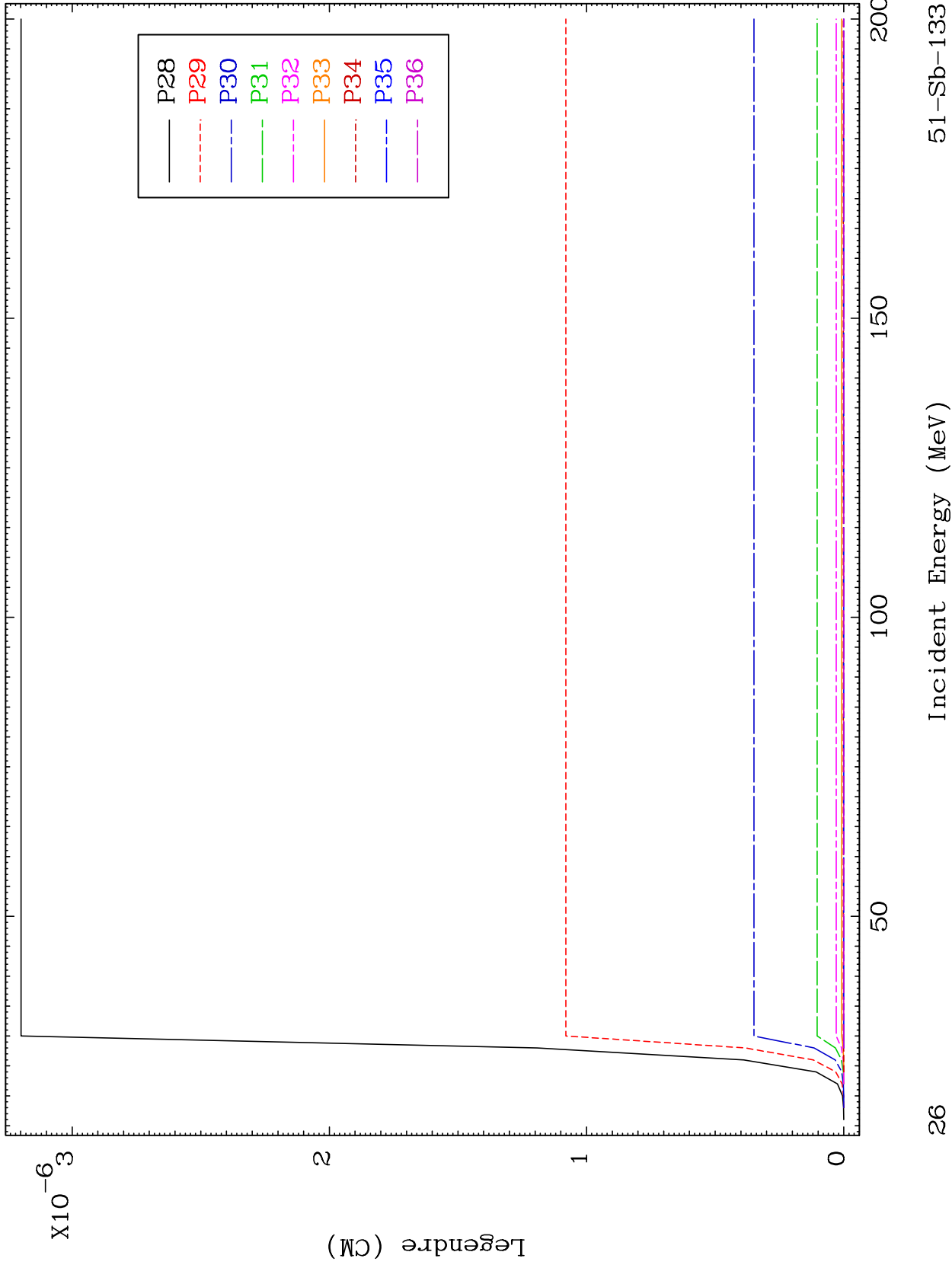








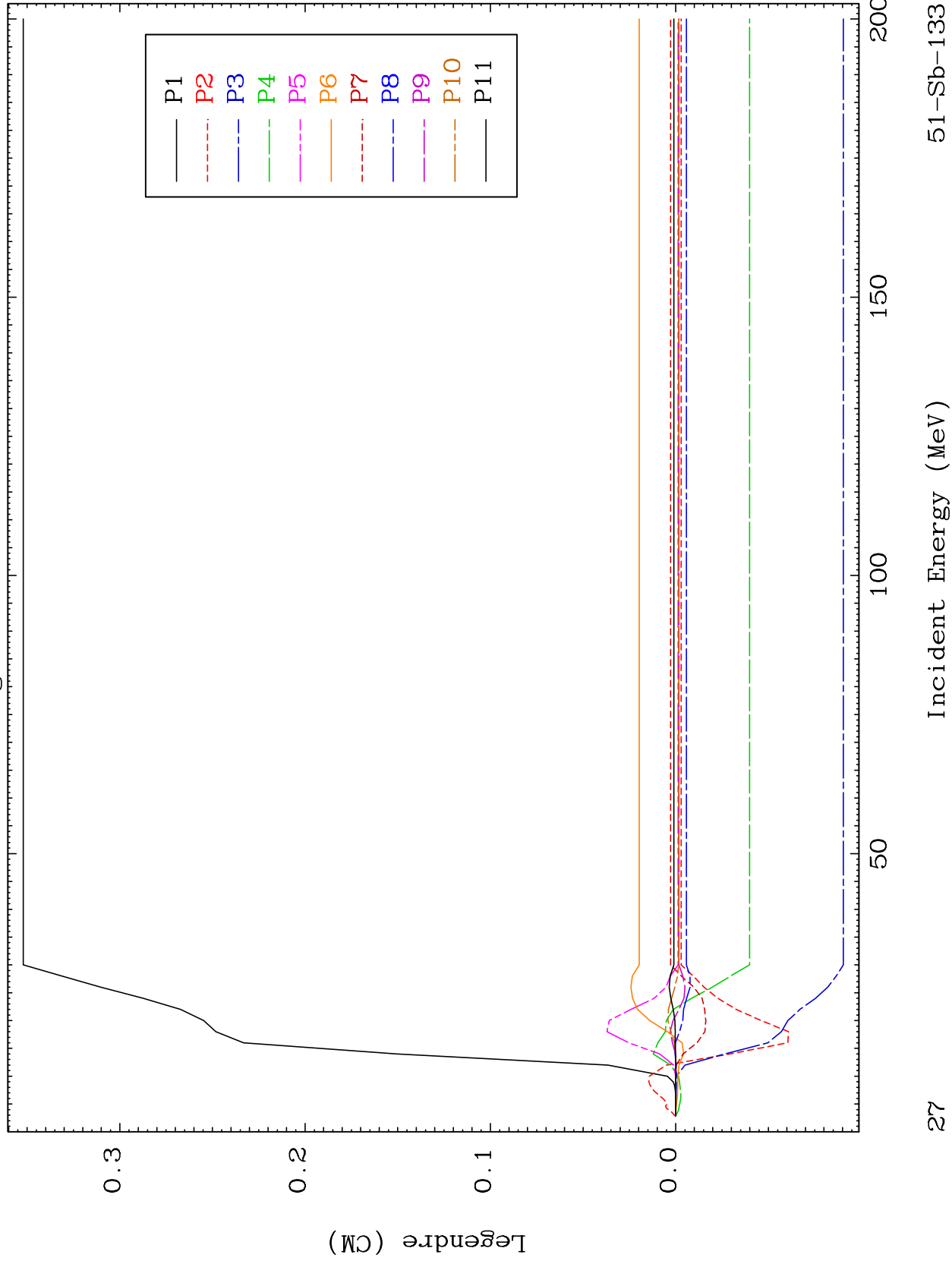




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2.792 MeV (n,n') Level  
Legendre Coefficients

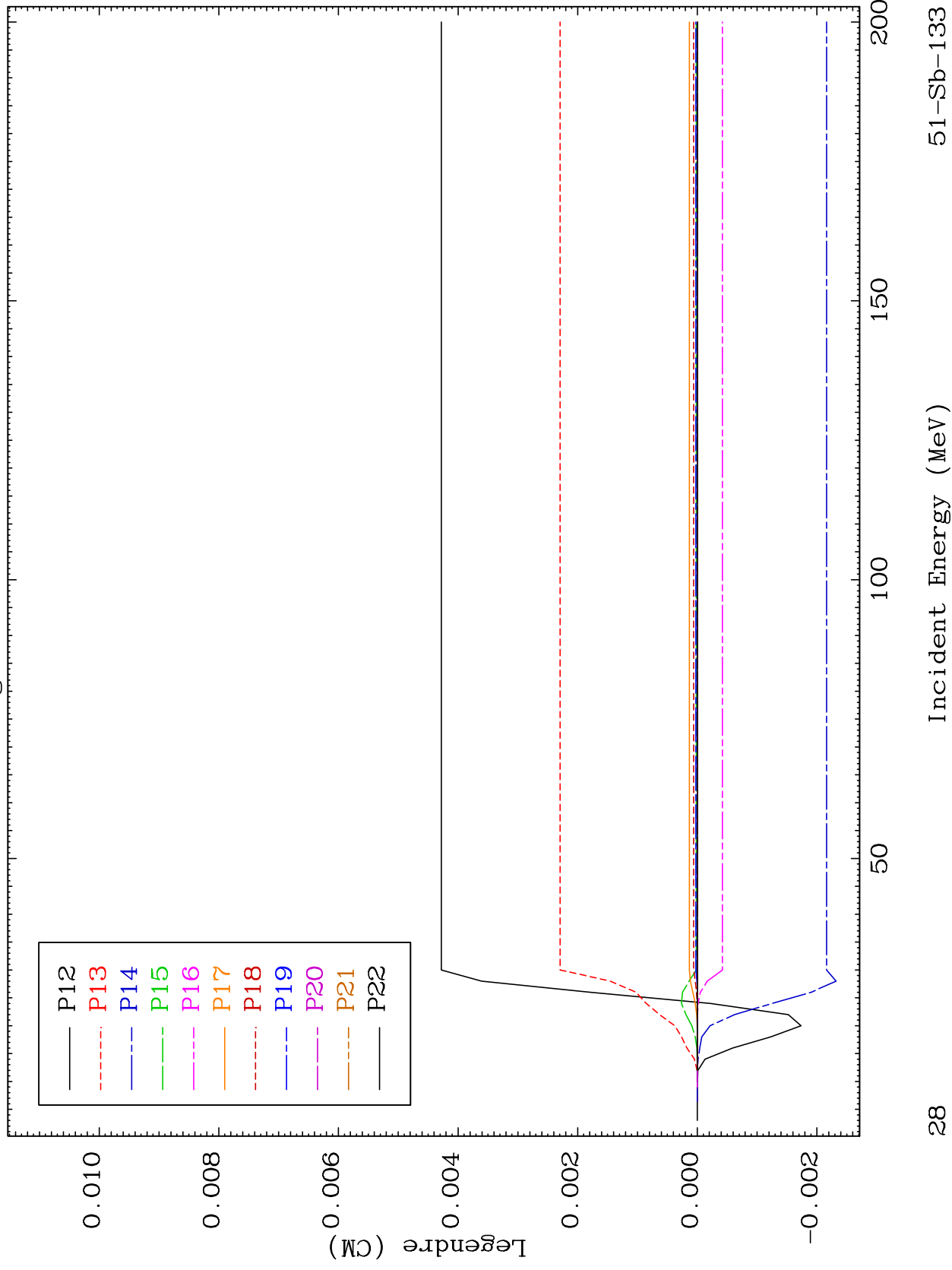
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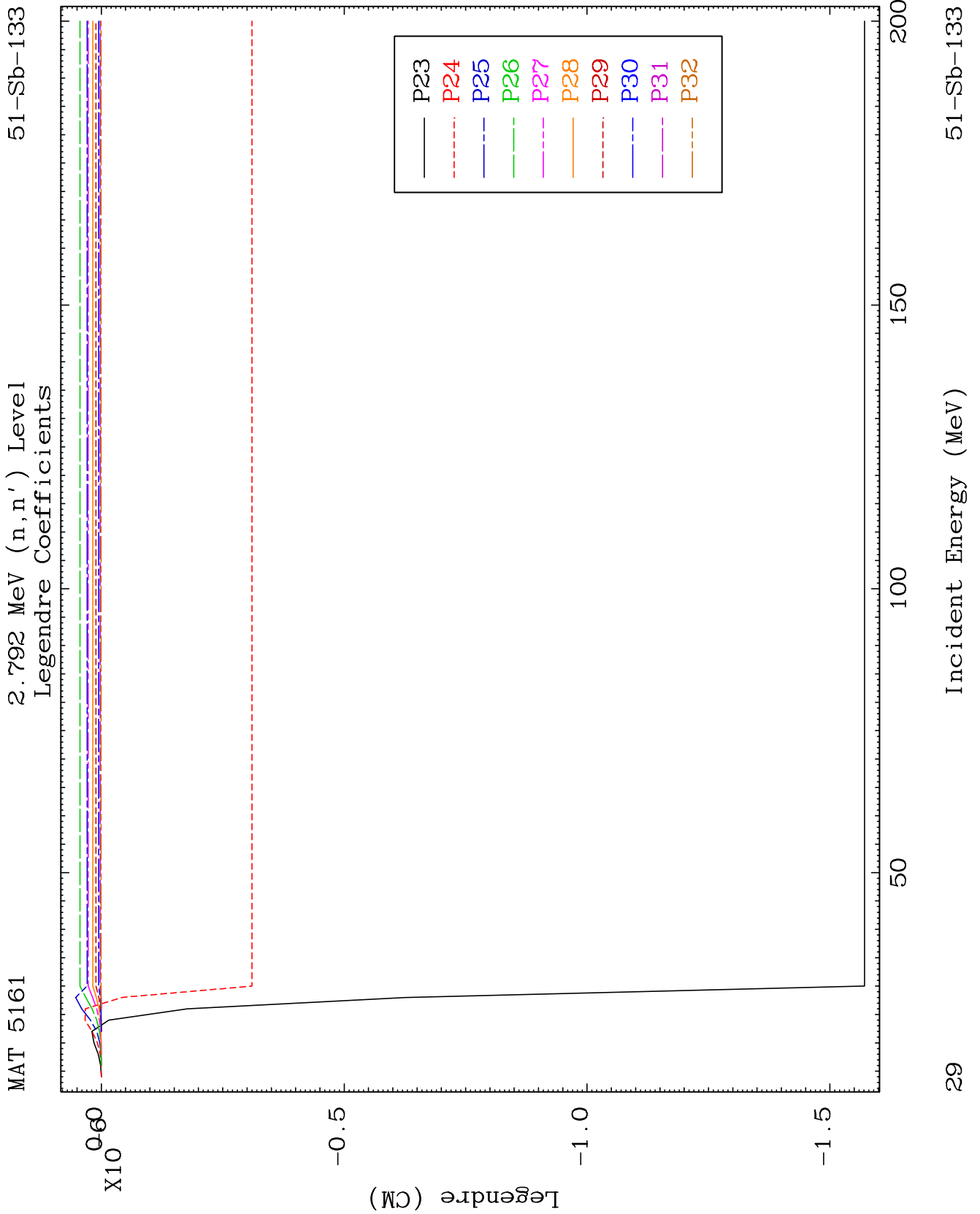


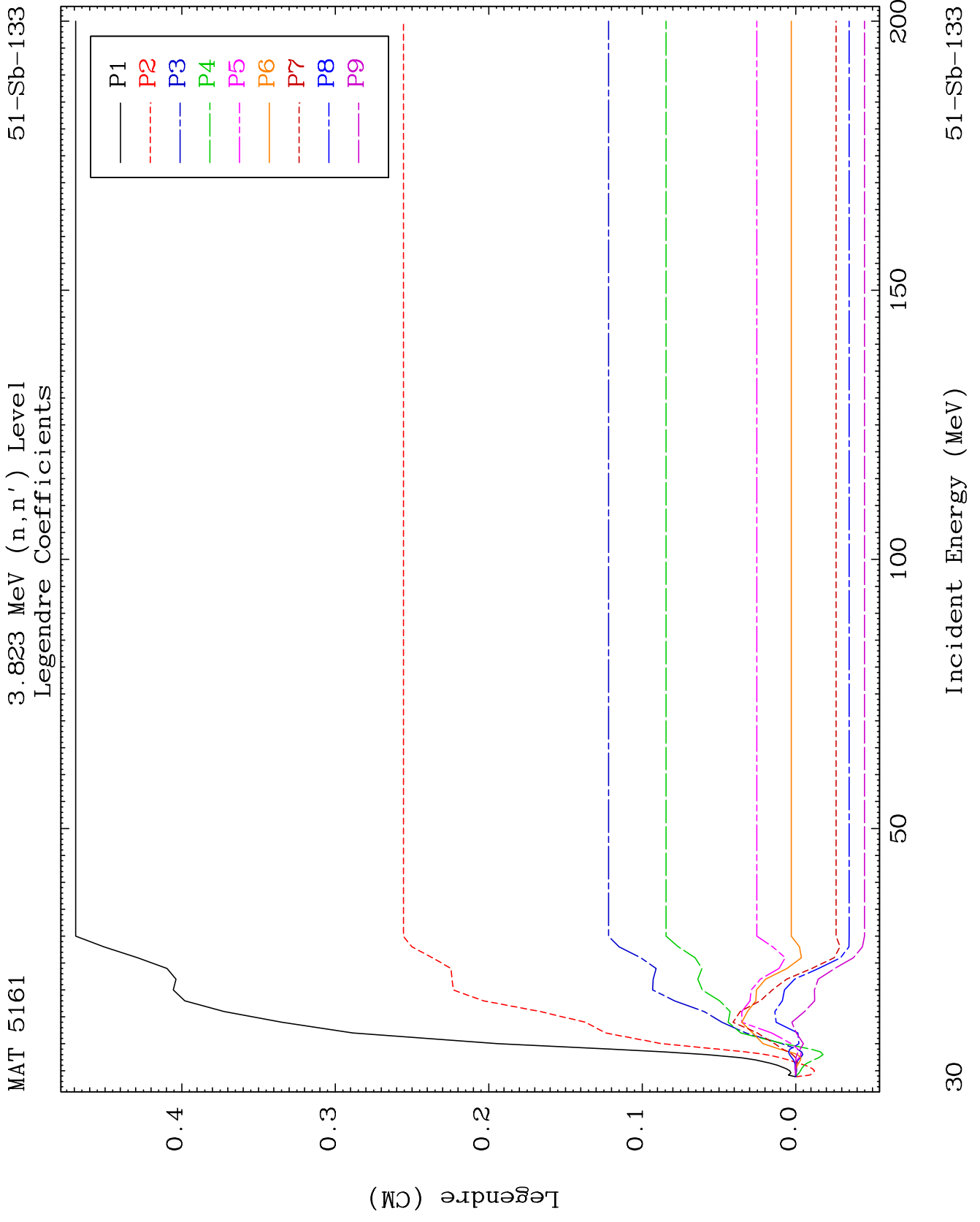
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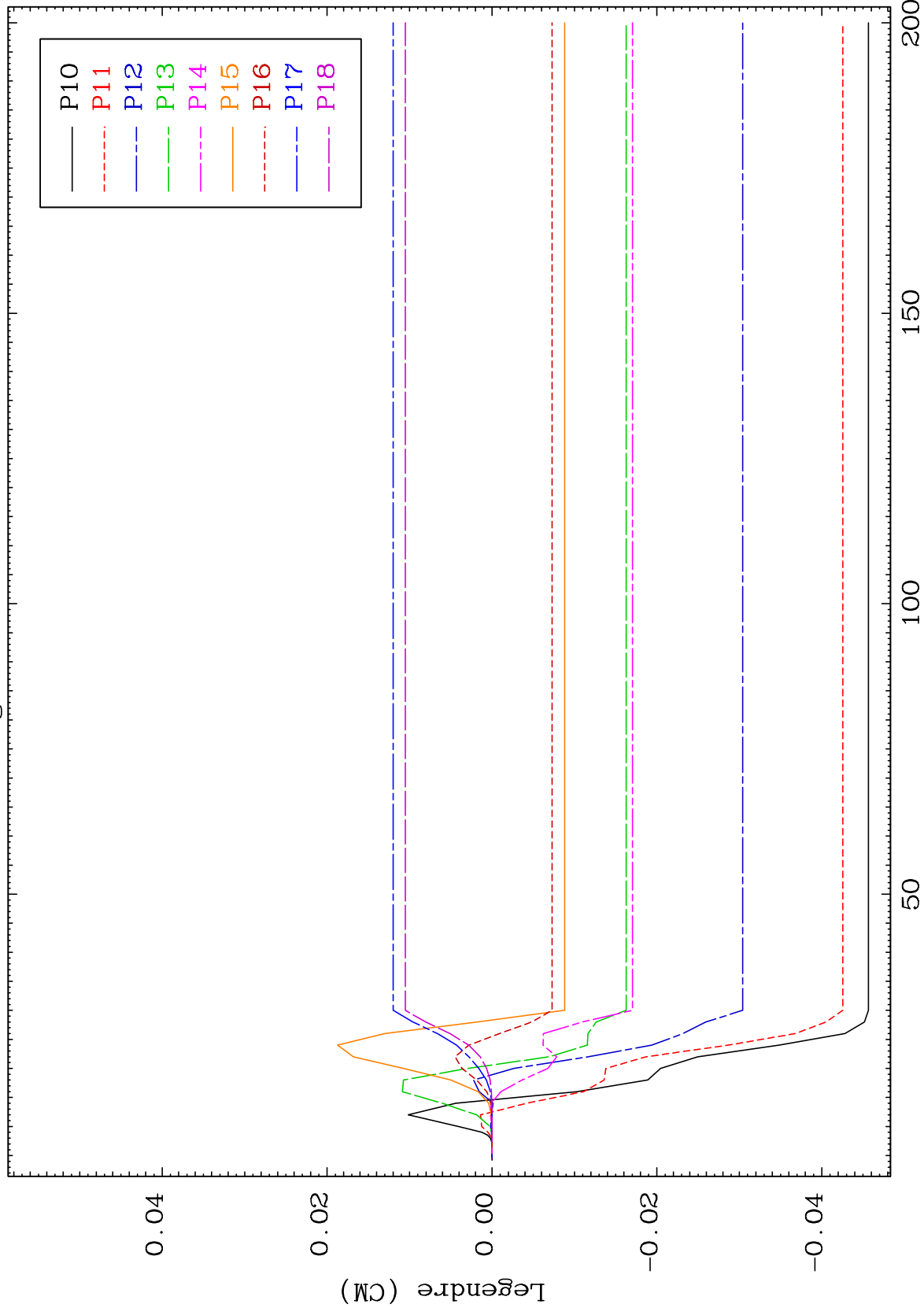
Incident Energy (MeV)

51-Sb-133



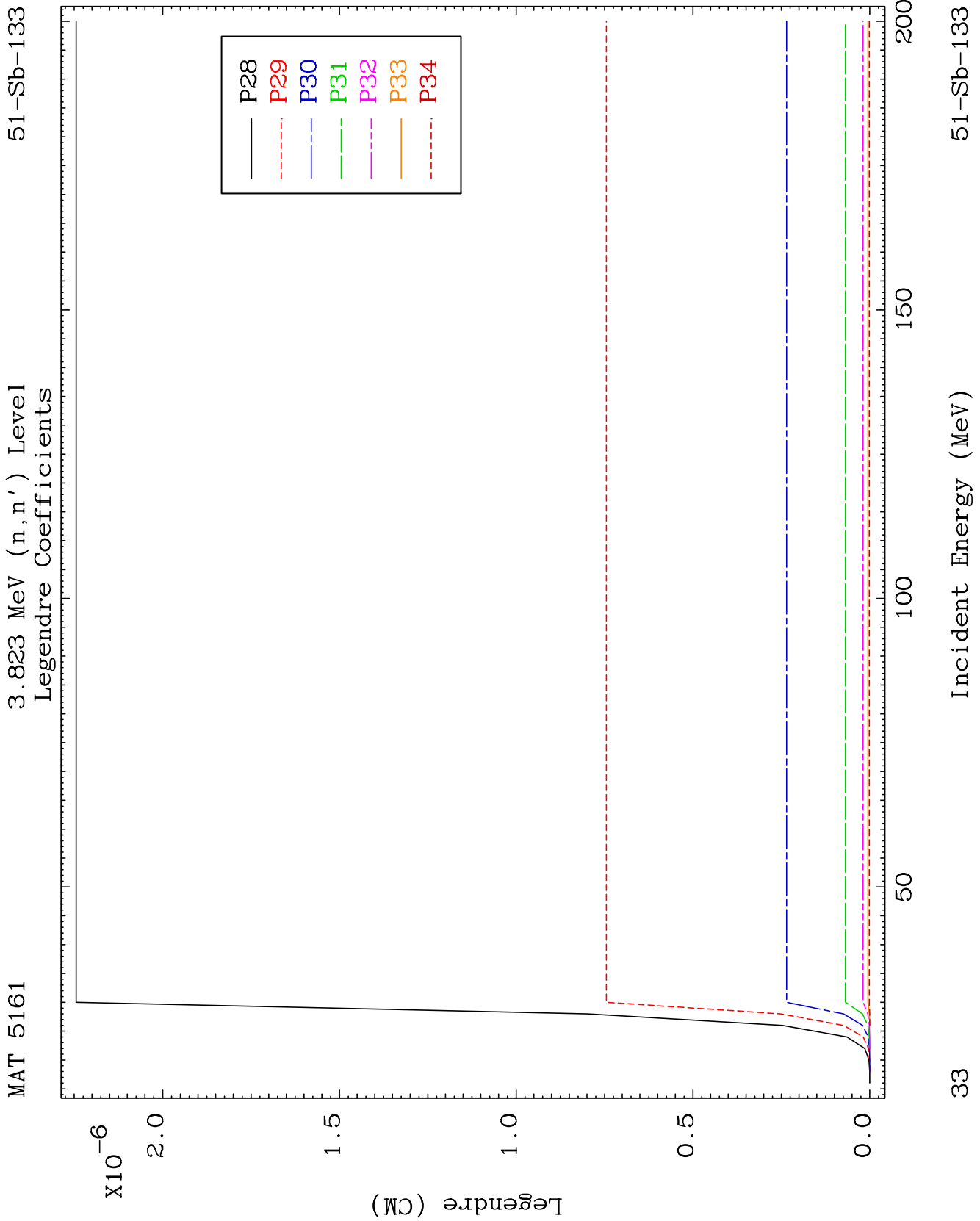


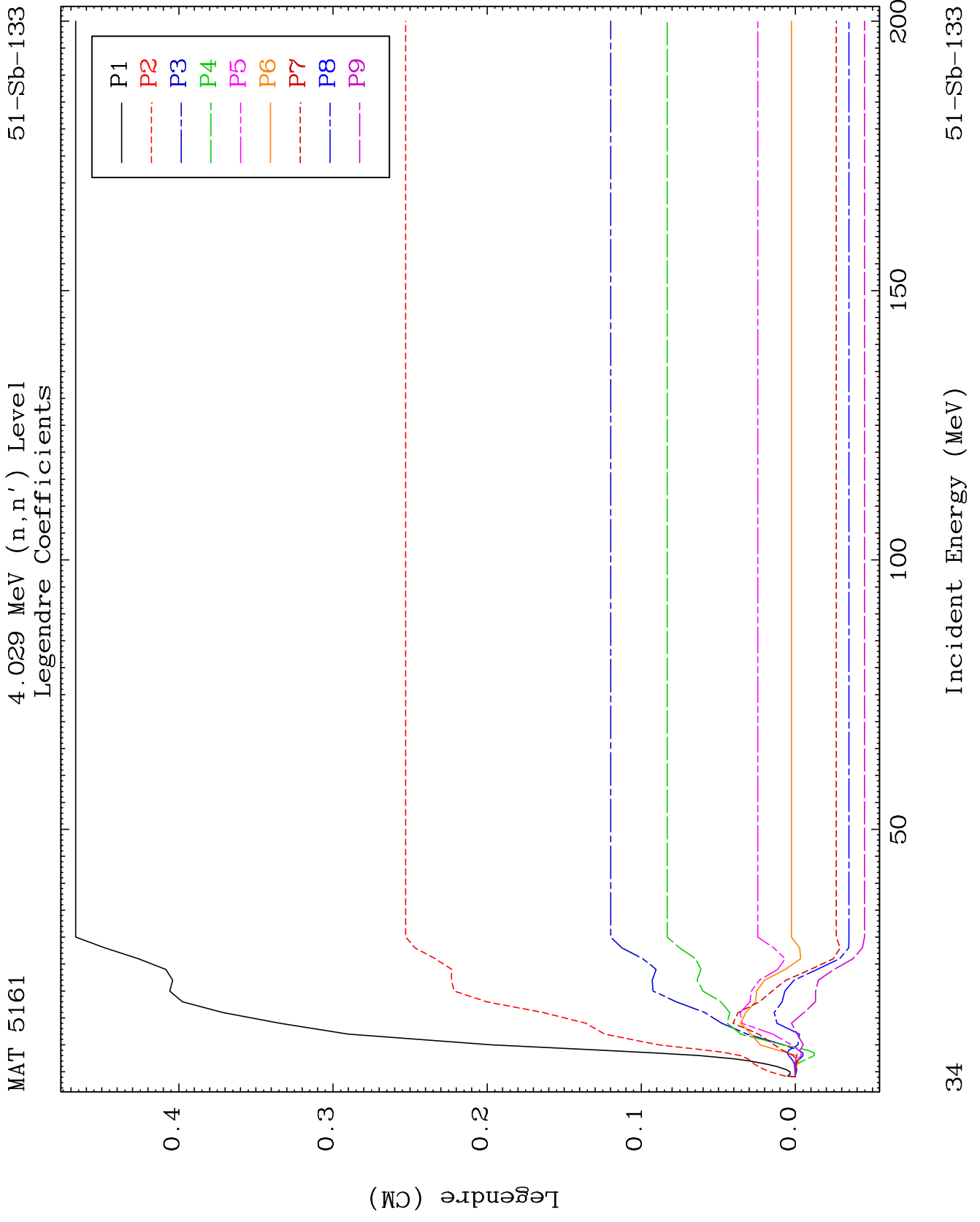








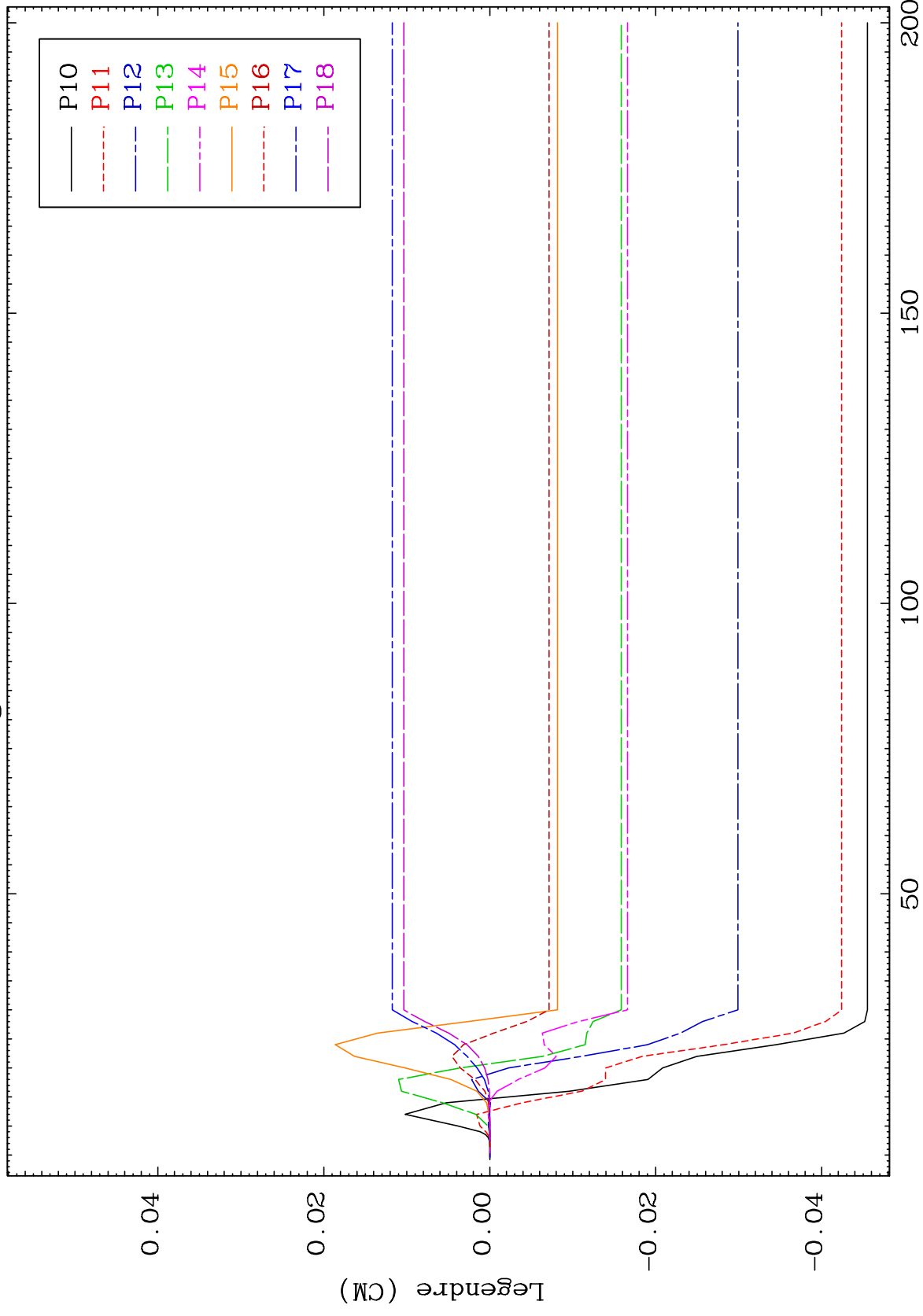




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4.029 MeV (n,n') Level  
Legendre Coefficients

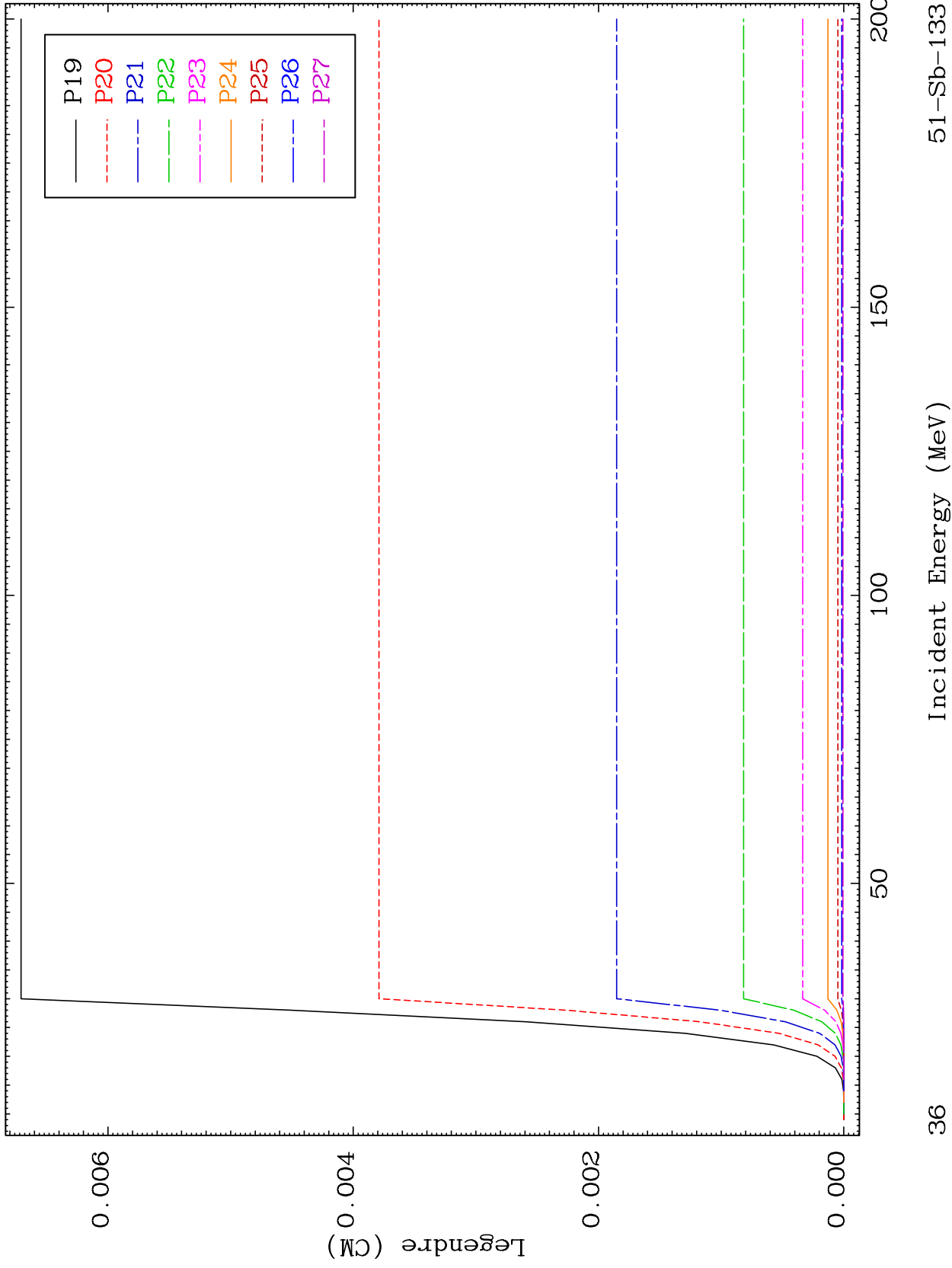
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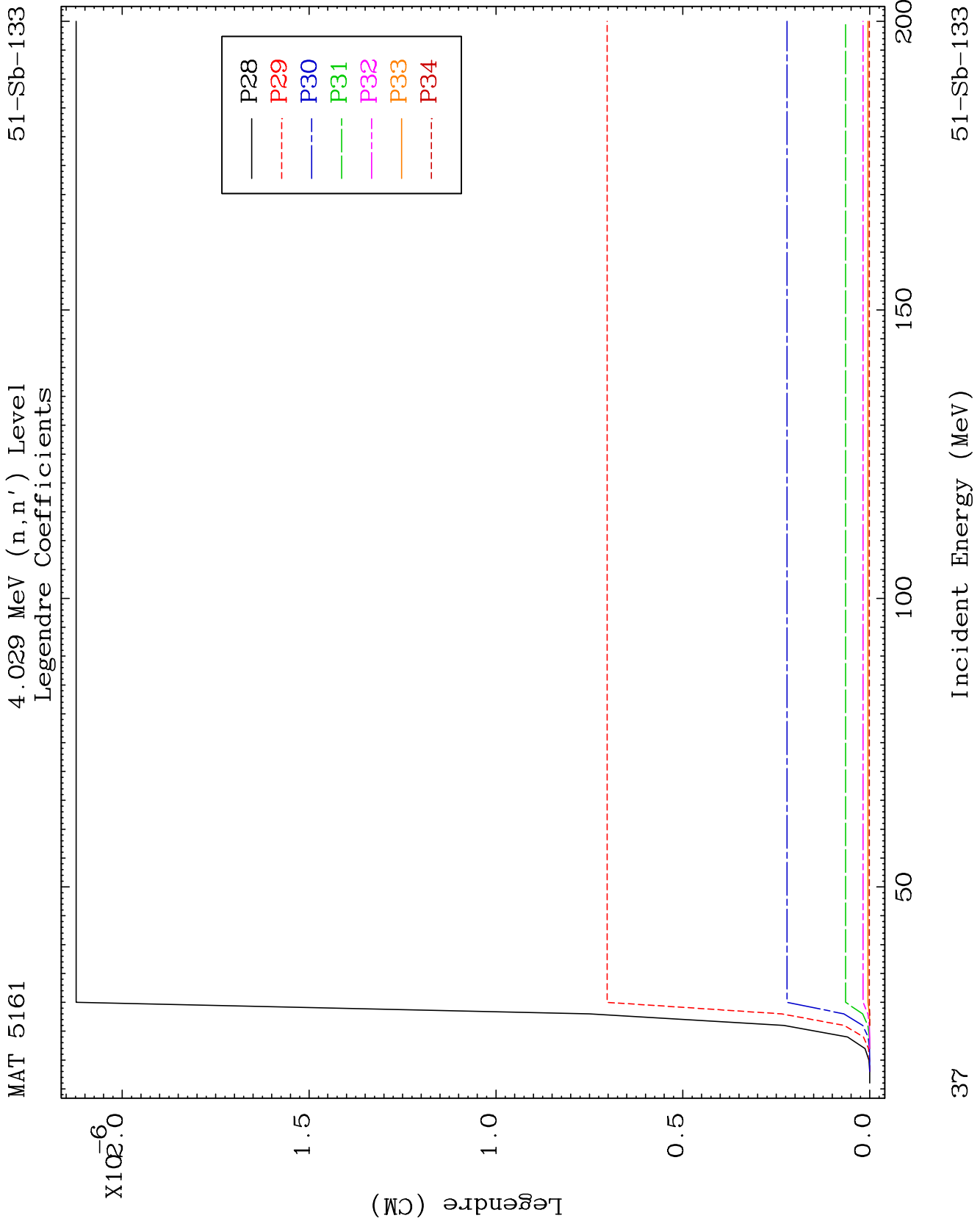


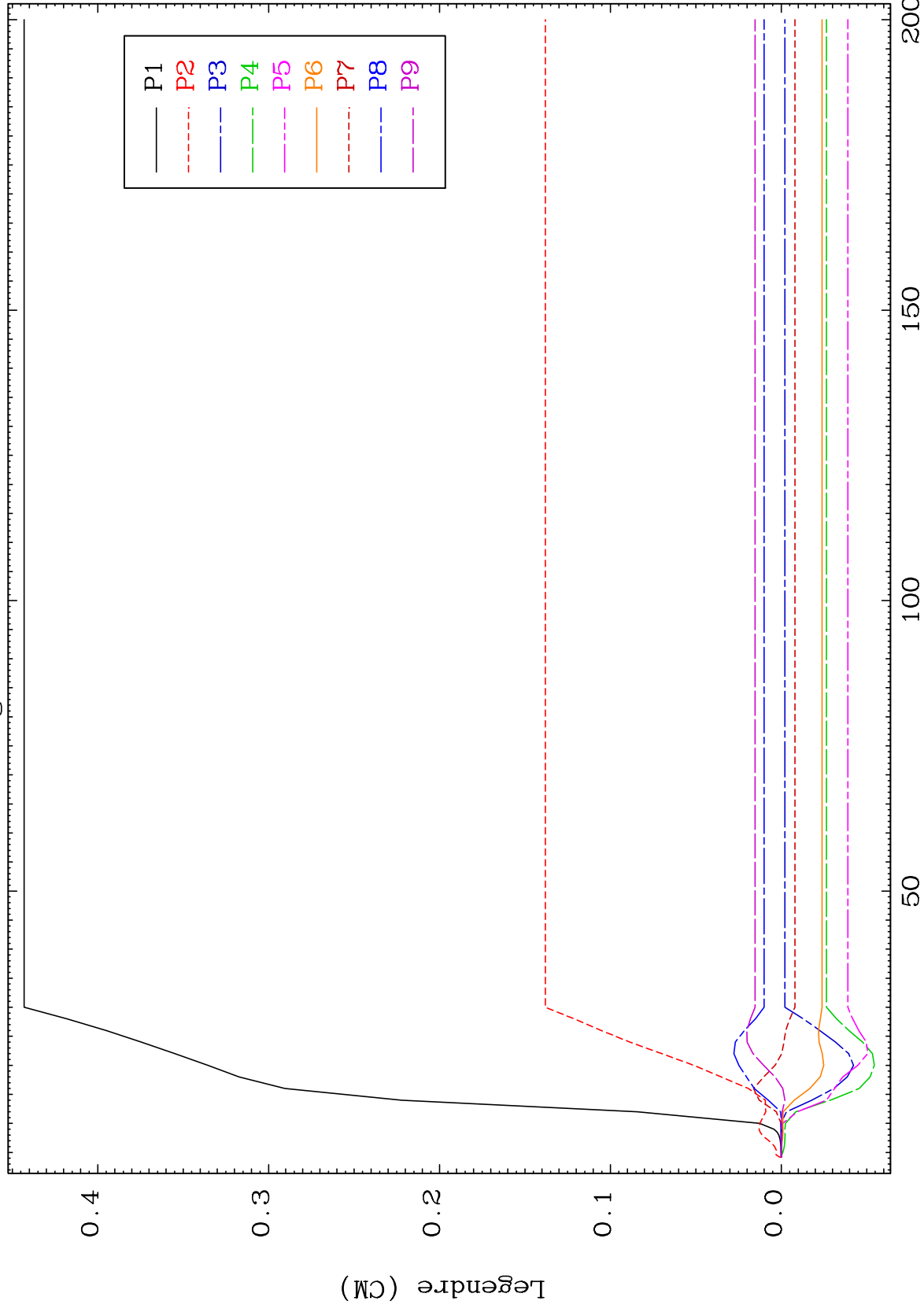
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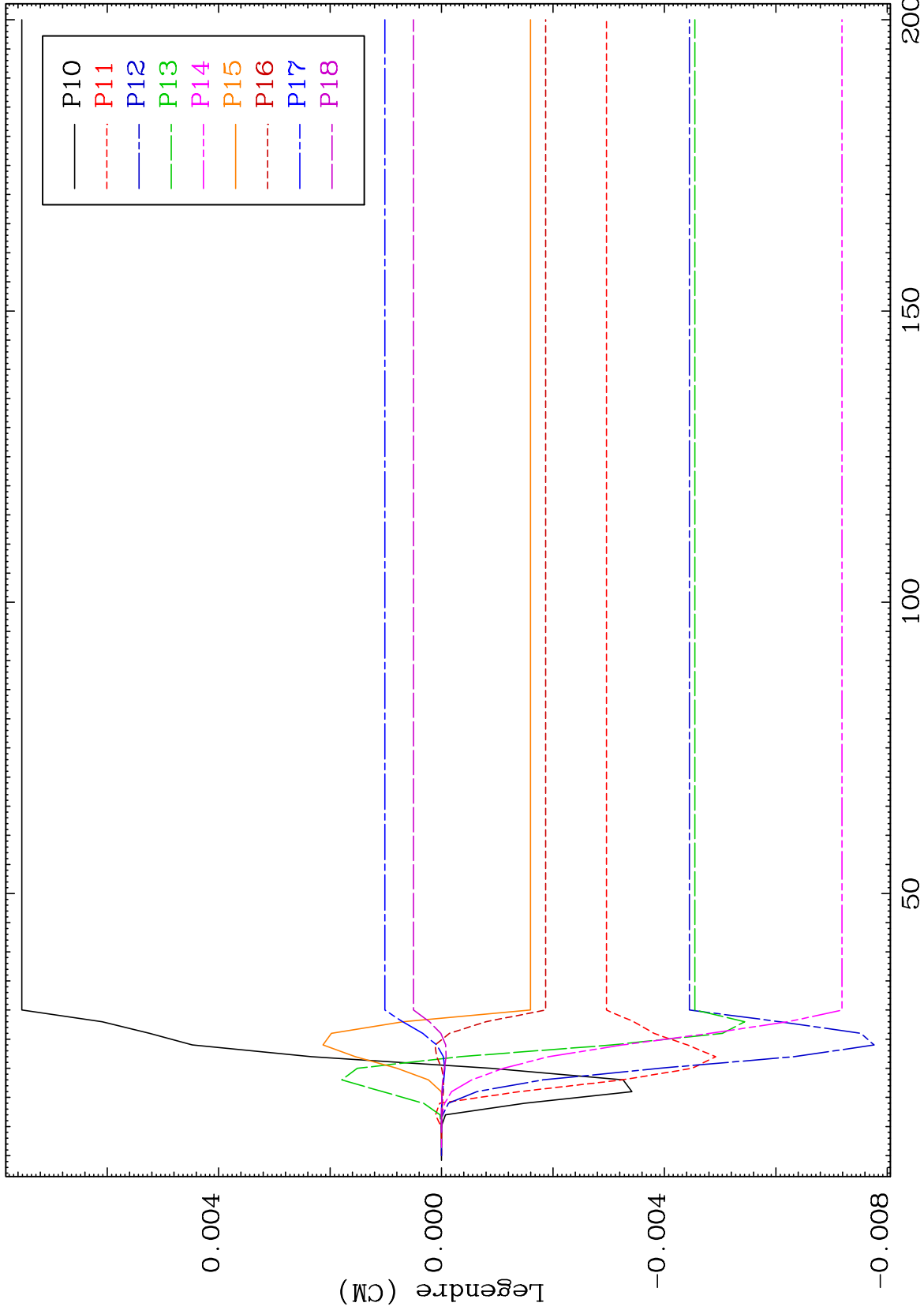
Incident Energy (MeV)

51-Sb-133







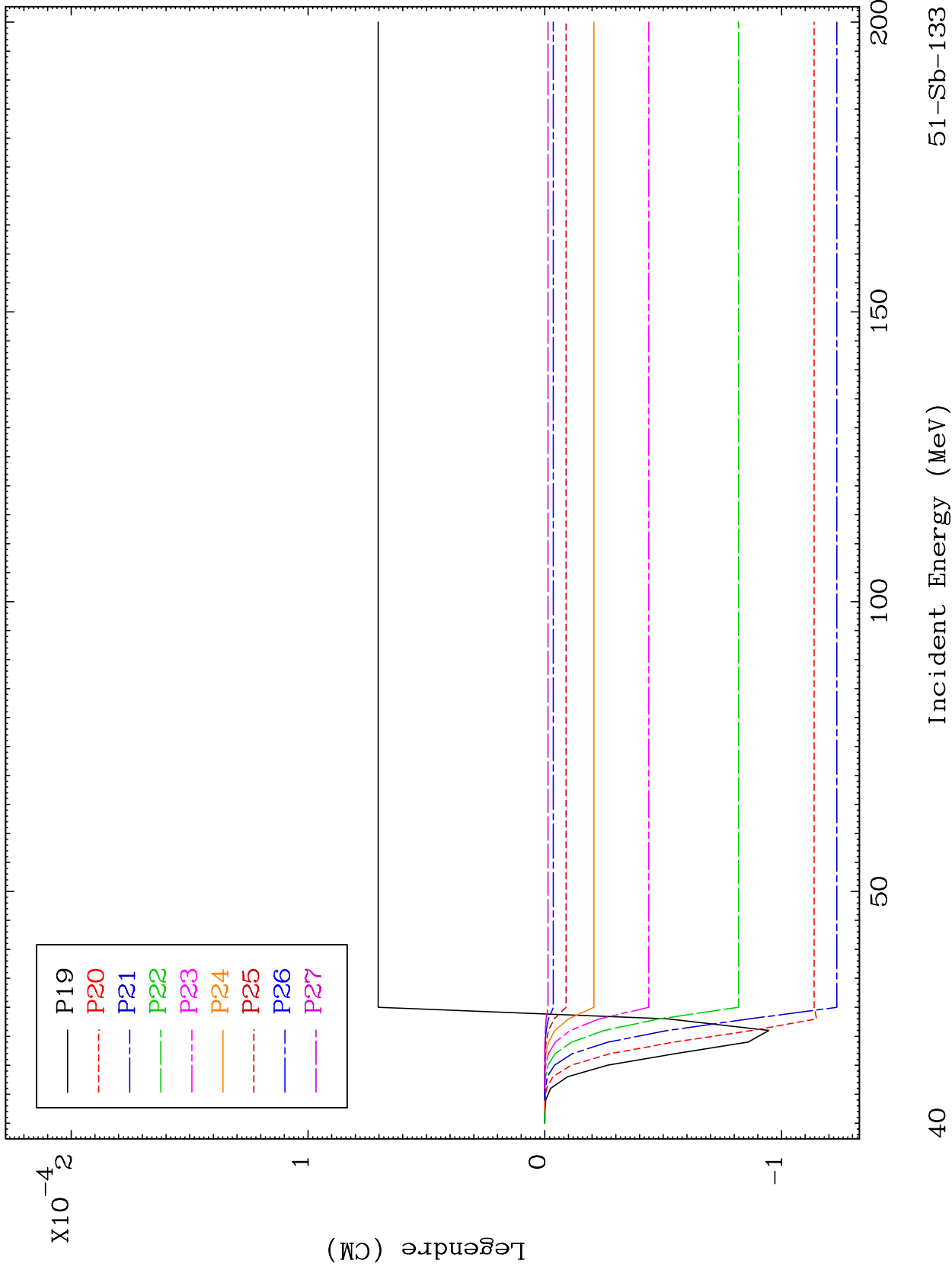




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4.150 MeV (n,n') Level  
Legendre Coefficients

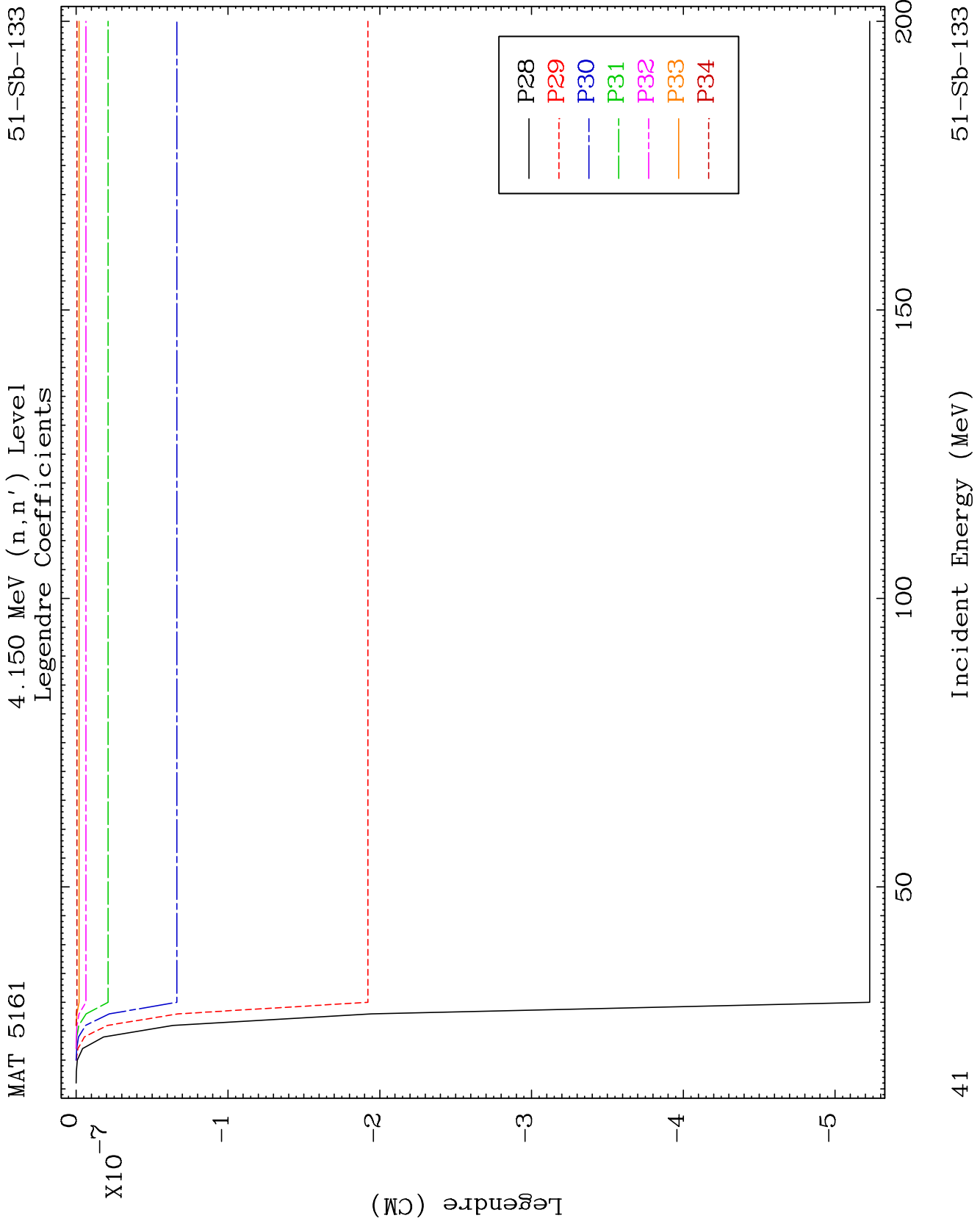
51-Sb-133

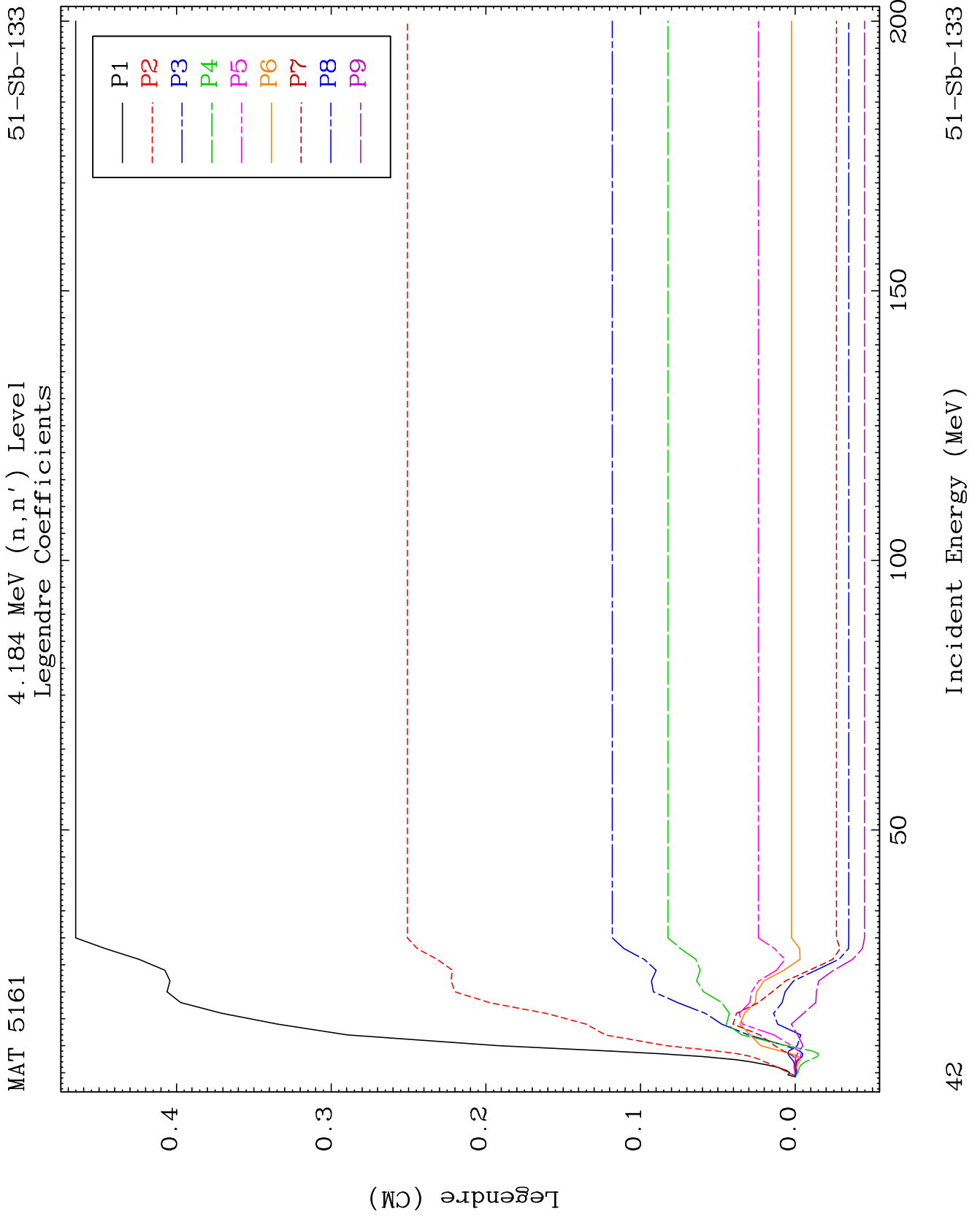


51-Sb-133

Incident Energy (MeV)

40

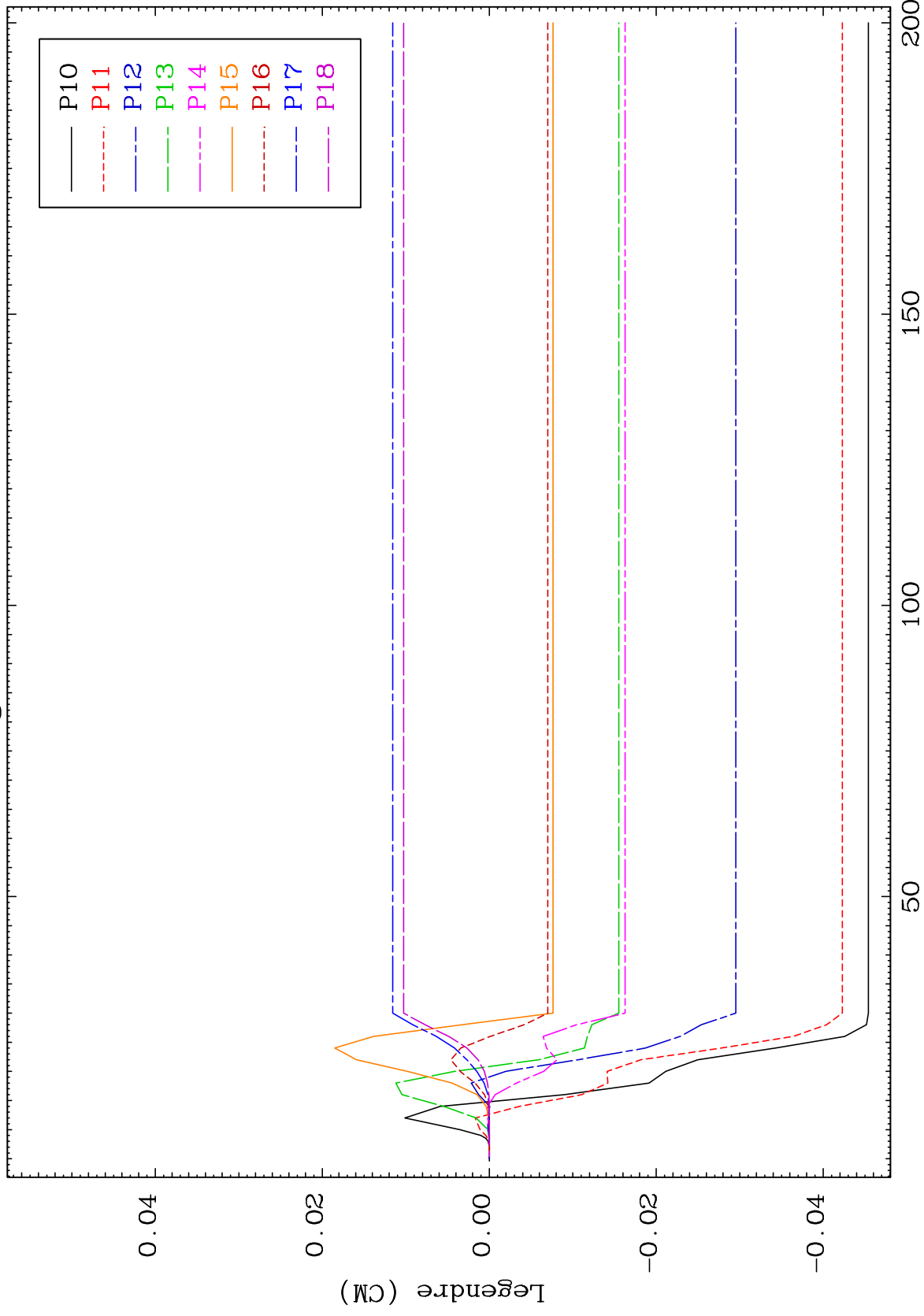




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4.184 MeV (n,n') Level  
Legendre Coefficients

51-Sb-133



43

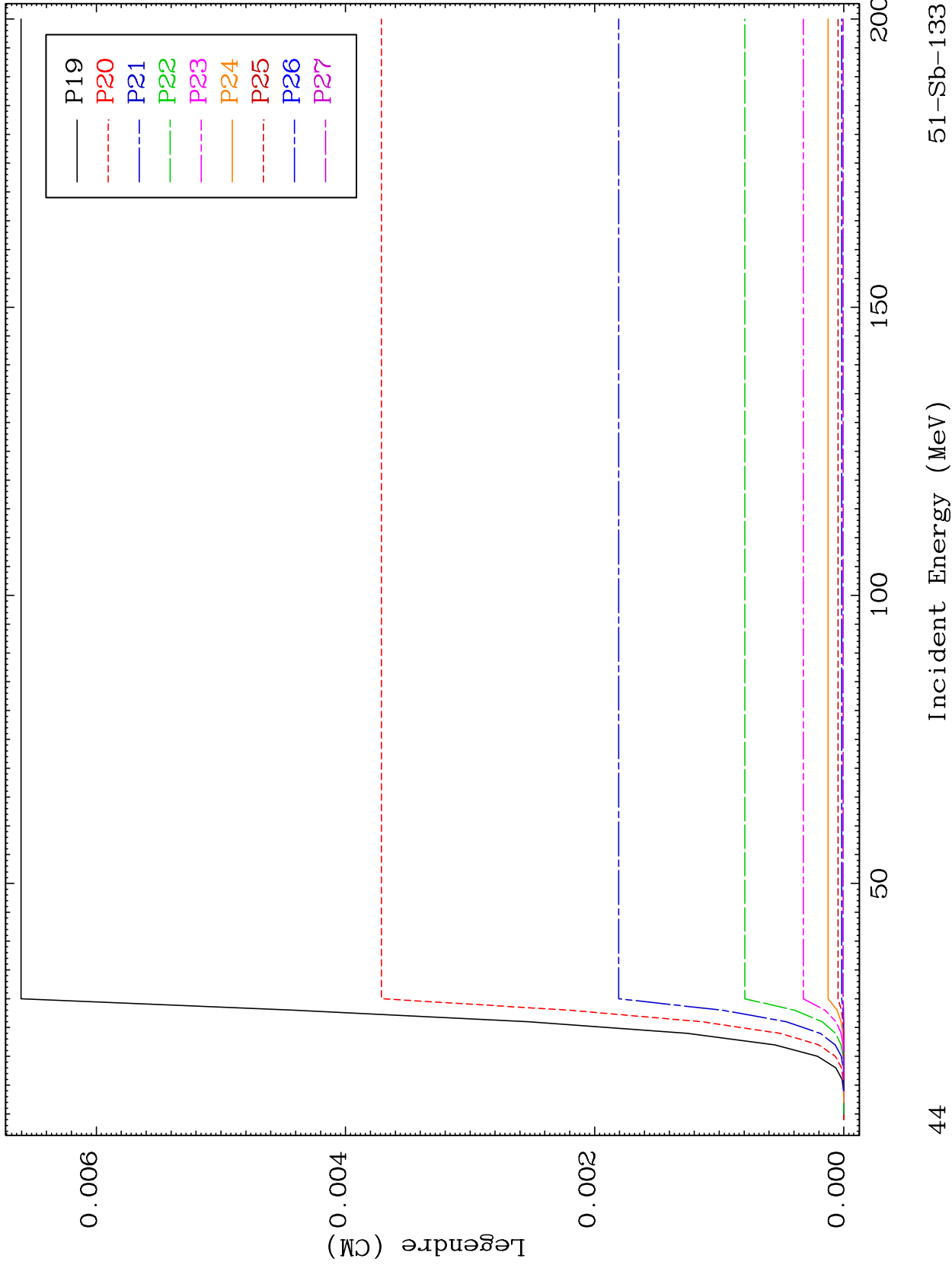
Incident Energy (MeV)

51-Sb-133

MAT 5161

4.184 MeV (n,n') Level  
Legendre Coefficients

51-Sb-133



44

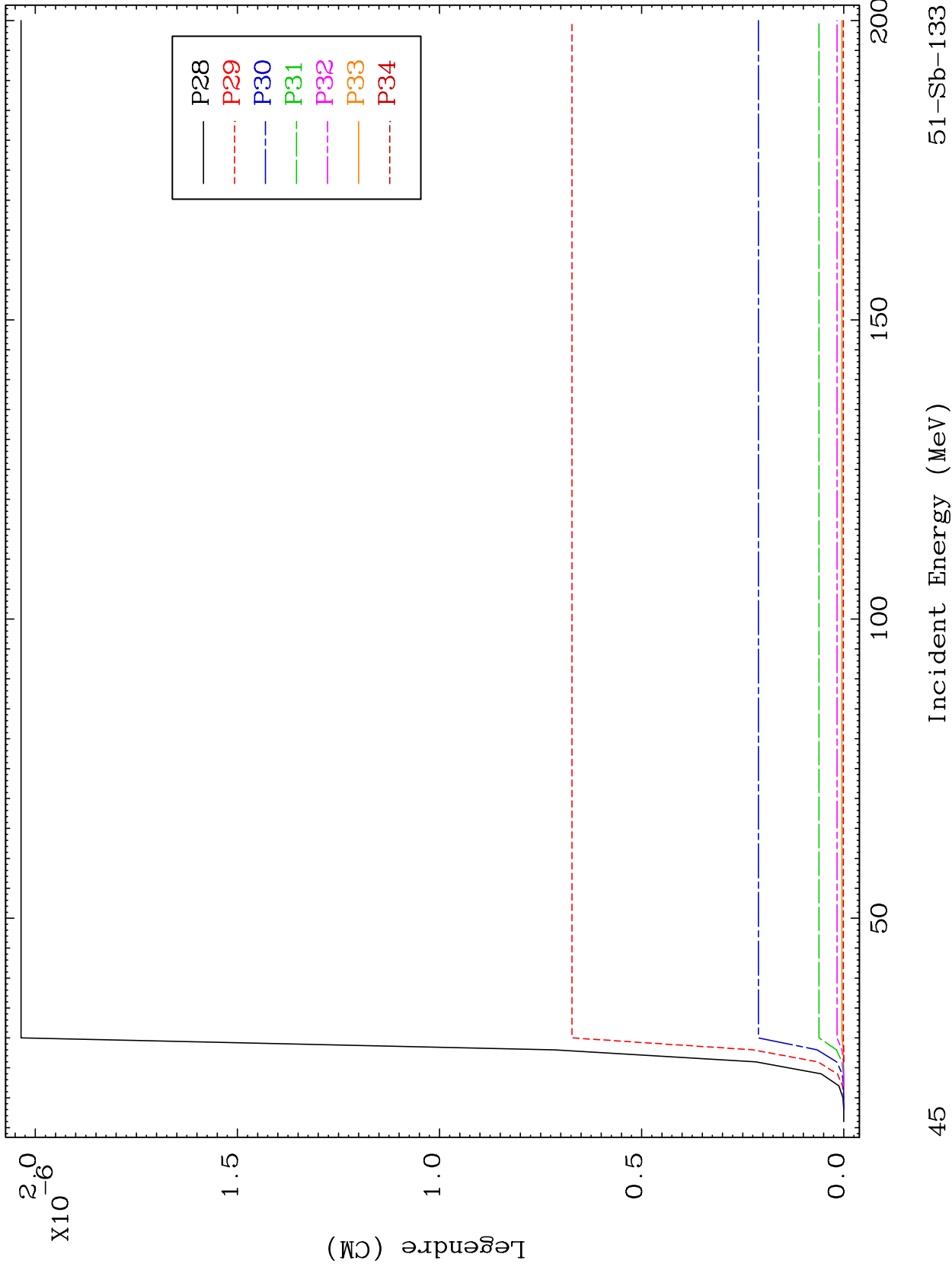
Incident Energy (MeV)

51-Sb-133

MAT 5161

4.184 MeV (n, n') Level  
Legendre Coefficients

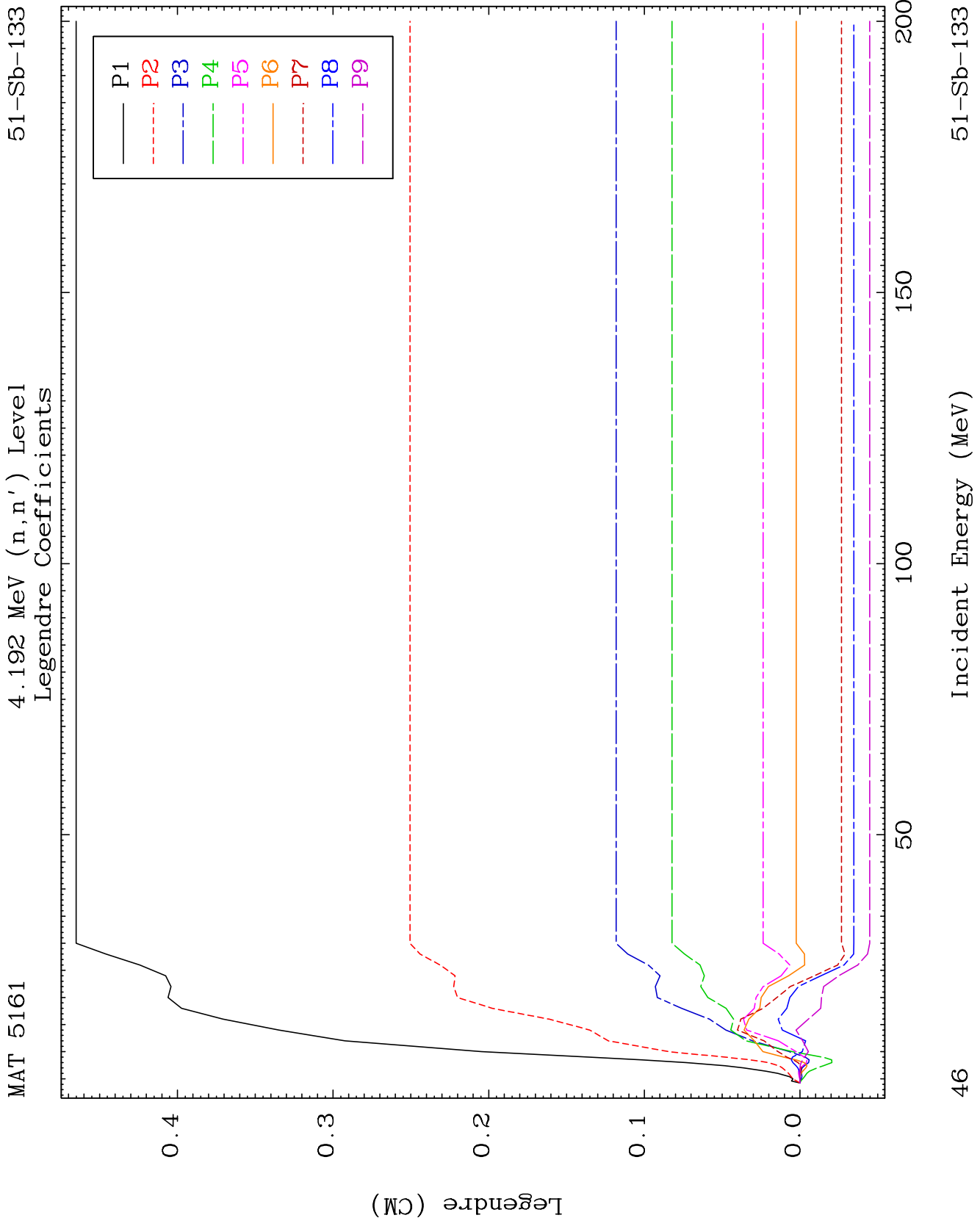
51-Sb-133



45

Incident Energy (MeV)

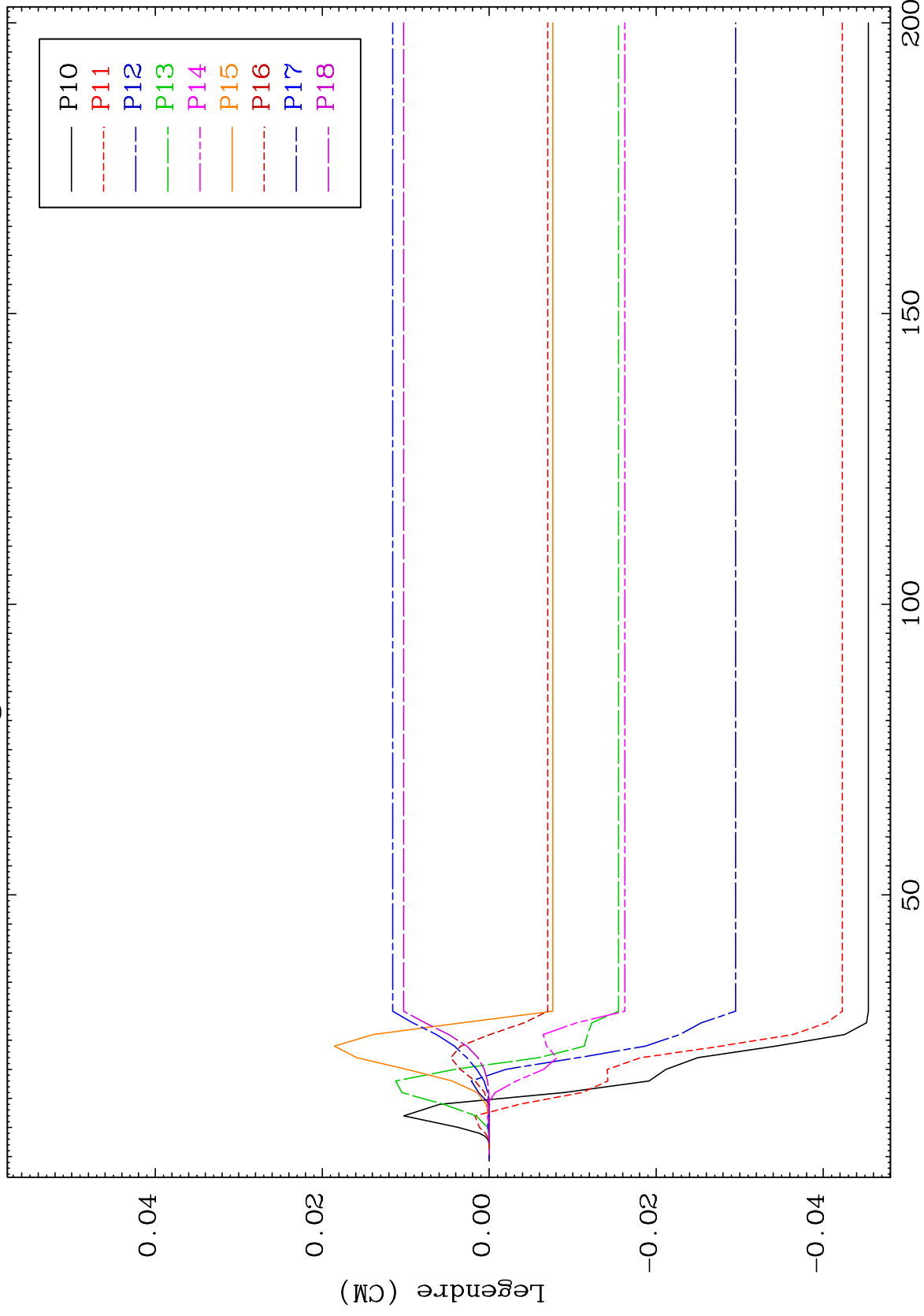
51-Sb-133



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4.192 MeV (n,n') Level  
Legendre Coefficients

51-Sb-133



47

Incident Energy (MeV)

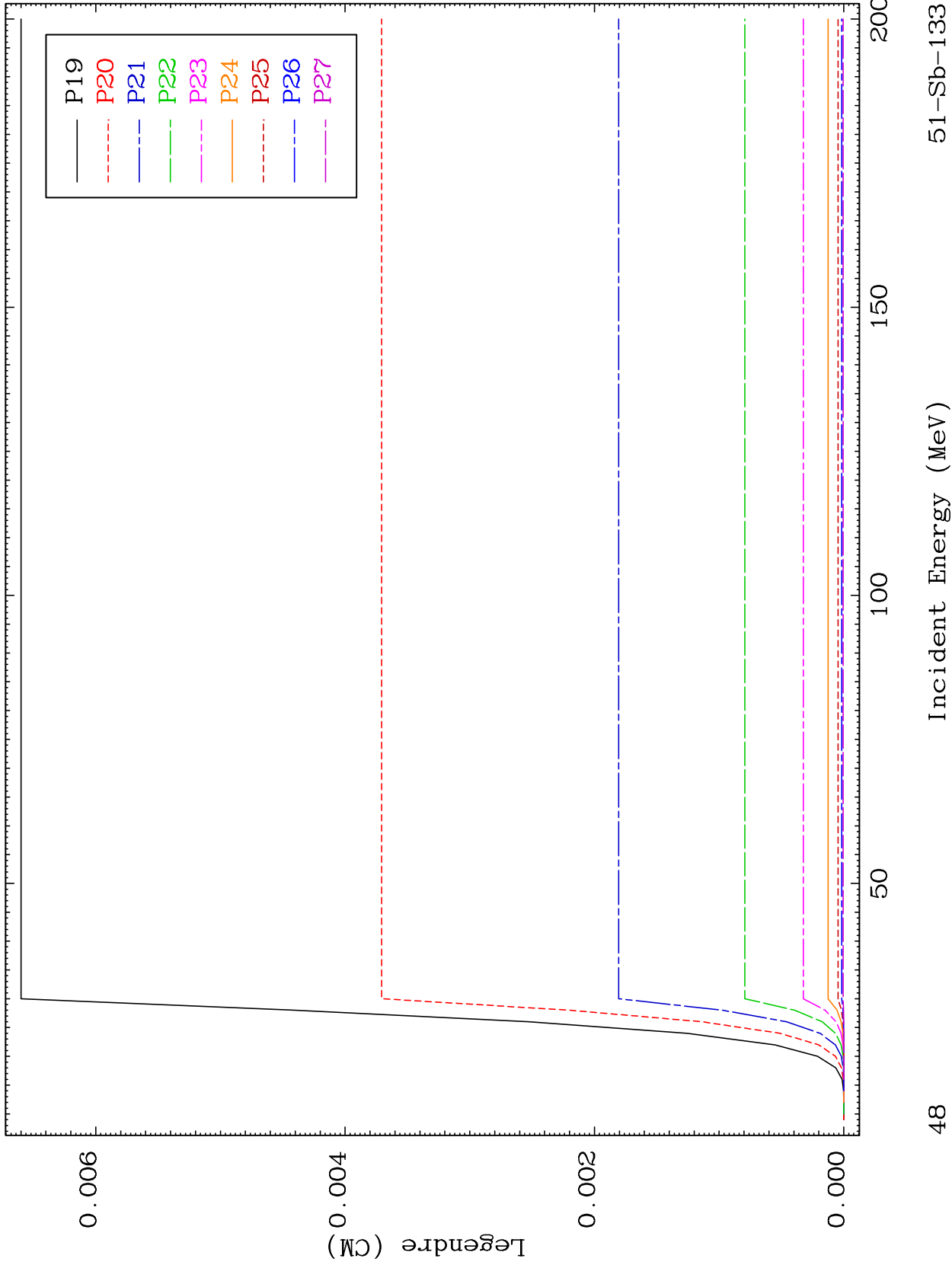
51-Sb-133



MAT 5161

4.192 MeV (n,n') Level  
Legendre Coefficients

51-Sb-133



48

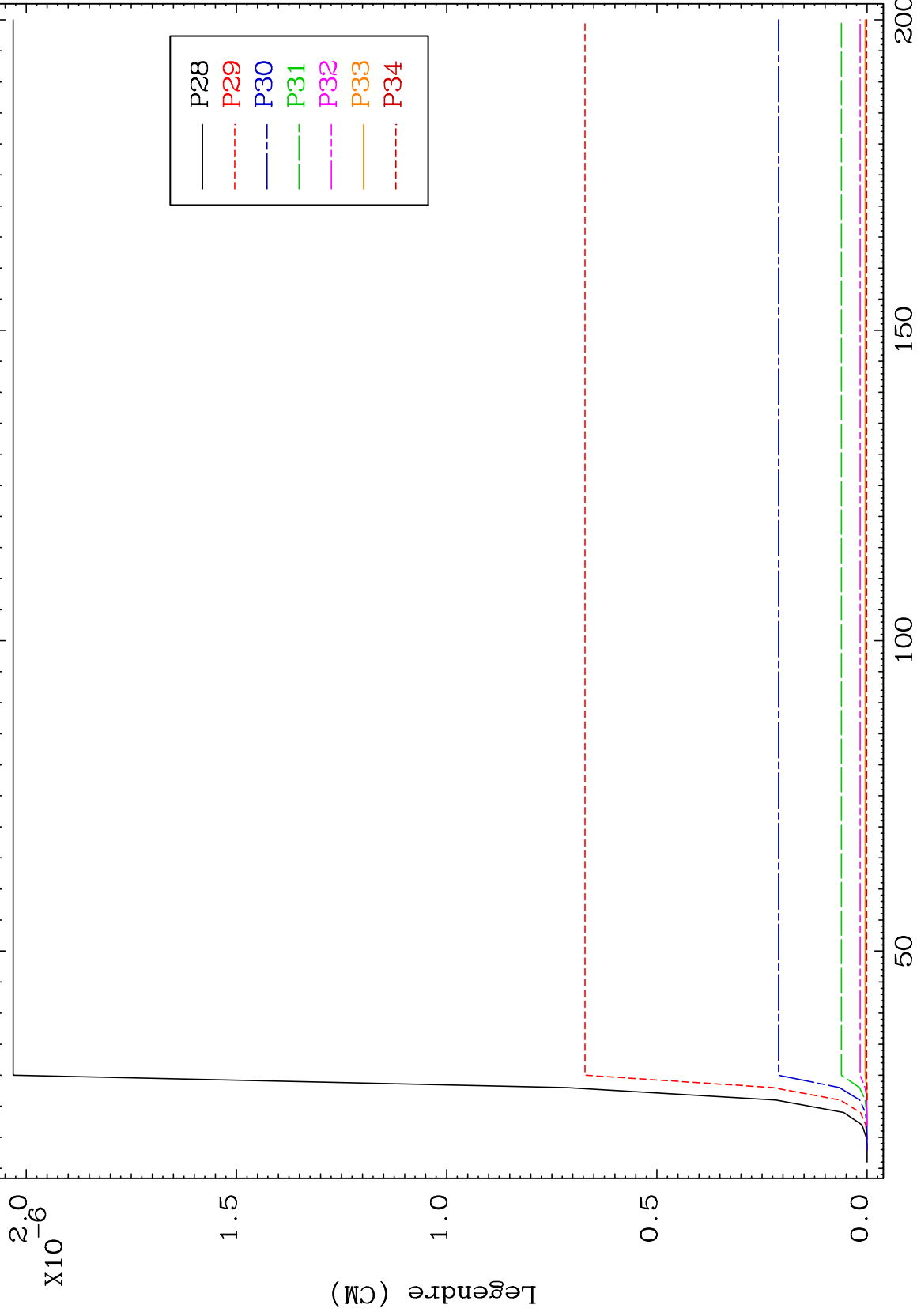
Incident Energy (MeV)

51-Sb-133

MAT 5161

4.192 MeV (n,n') Level  
Legendre Coefficients

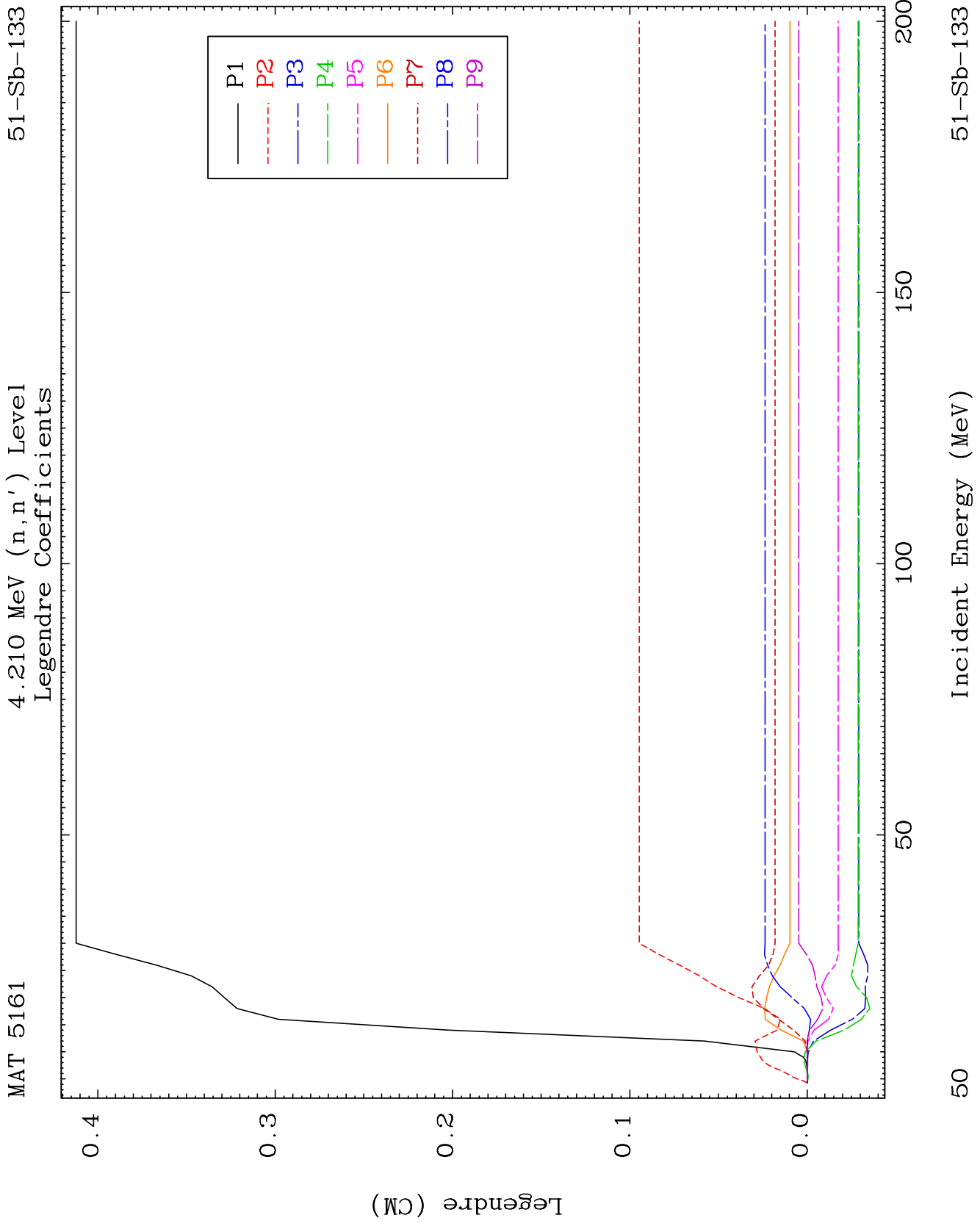
51-Sb-133



49

Incident Energy (MeV)

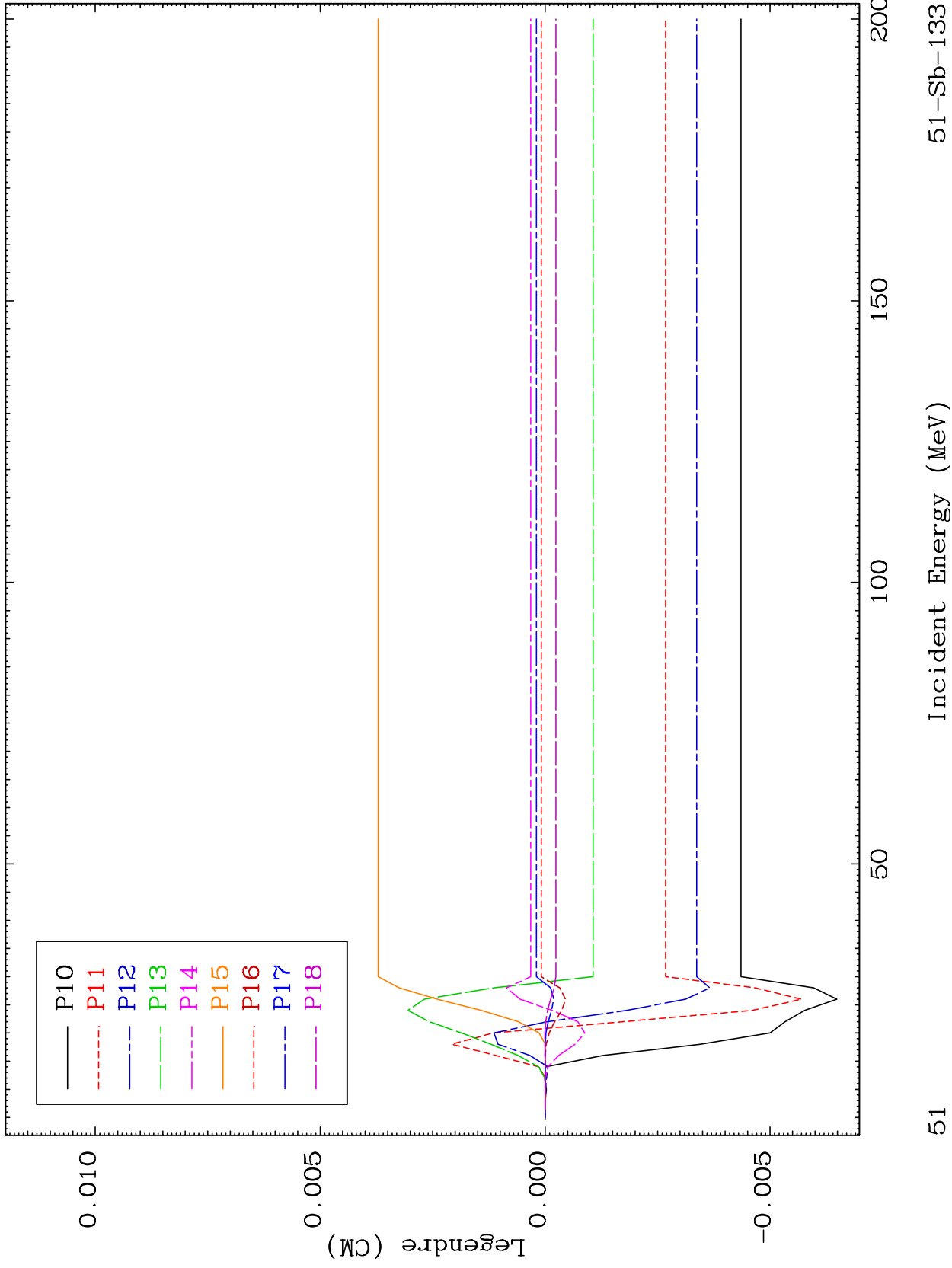
51-Sb-133



MAT 5161

4.210 MeV (n,n') Level  
Legendre Coefficients

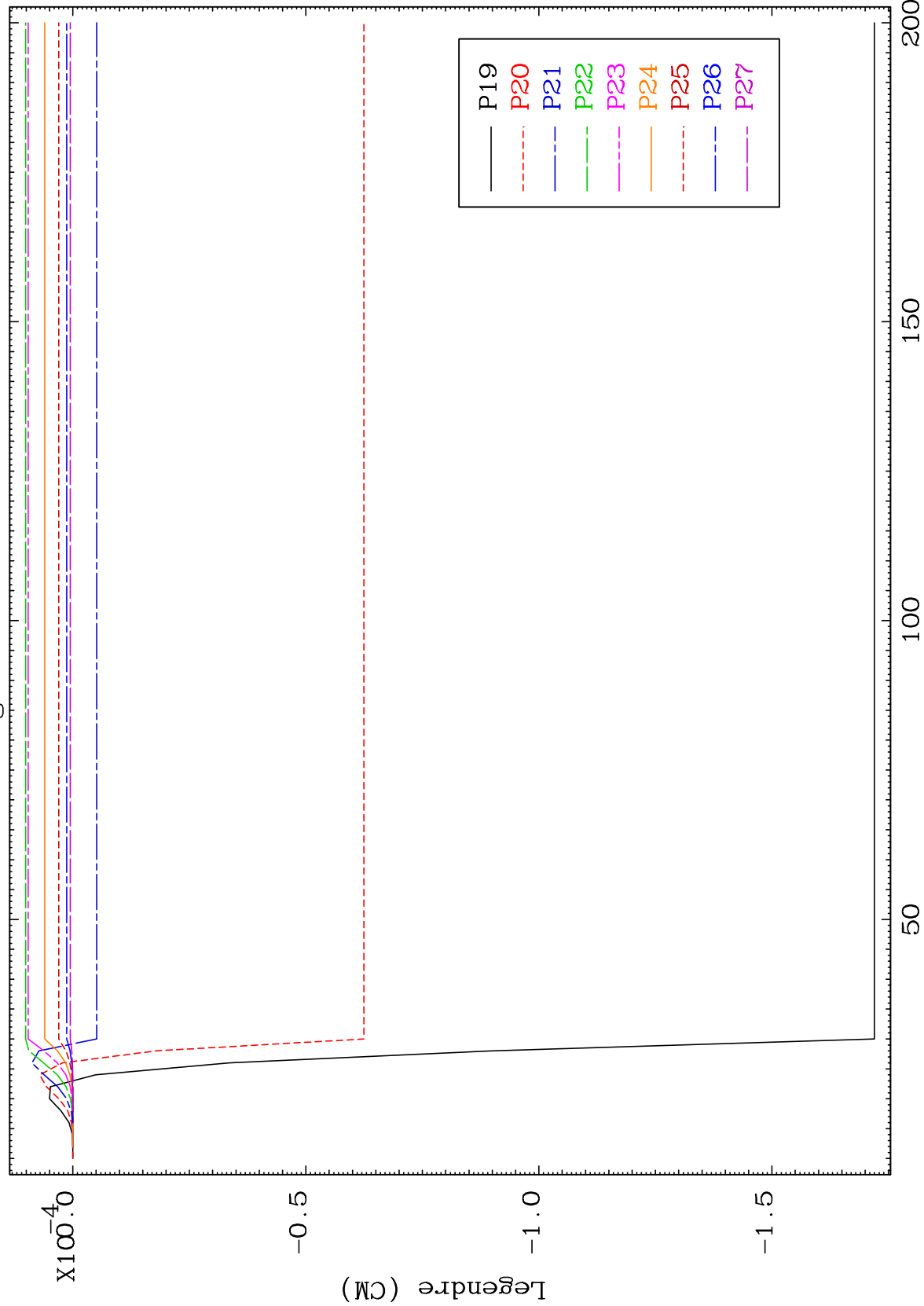
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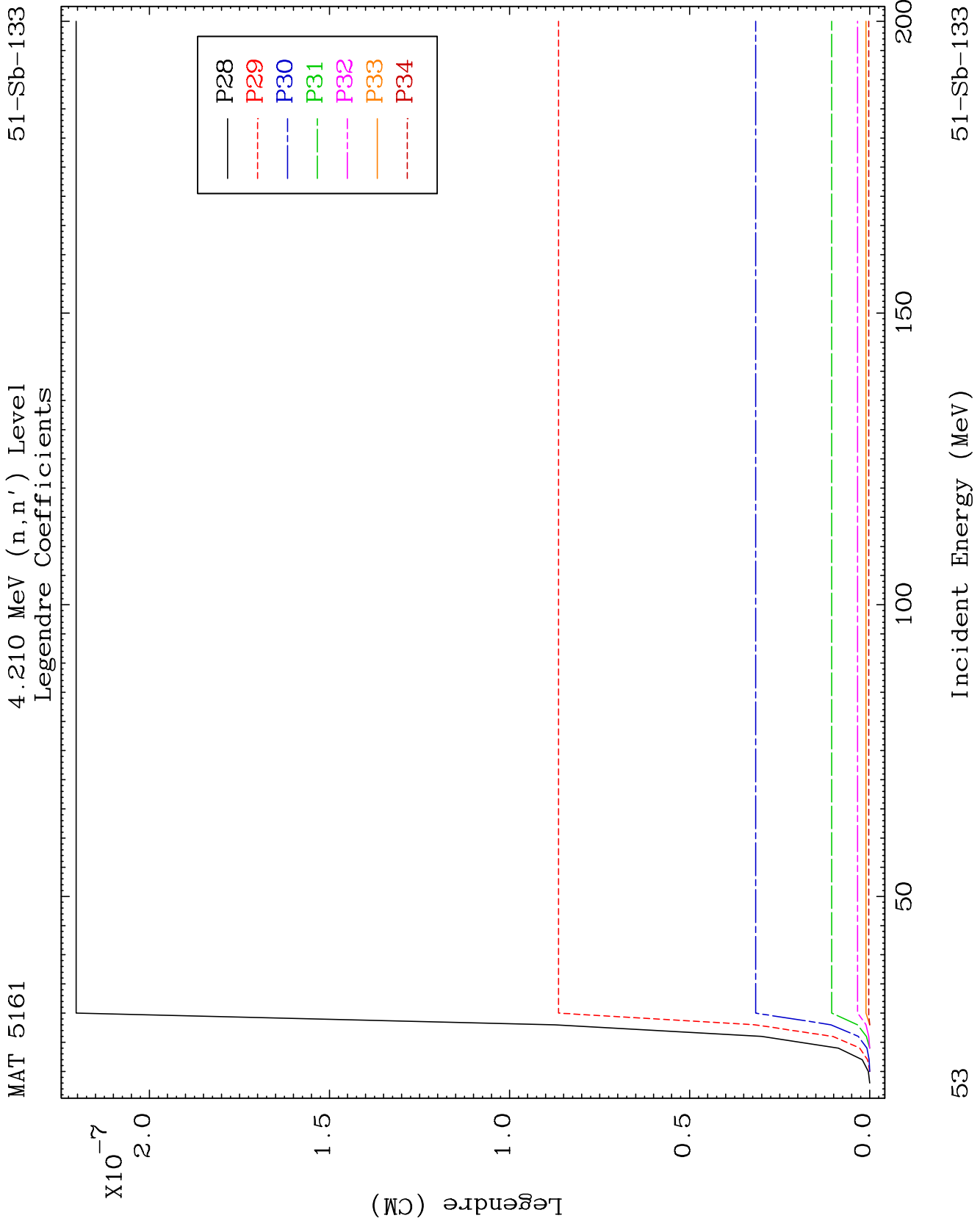


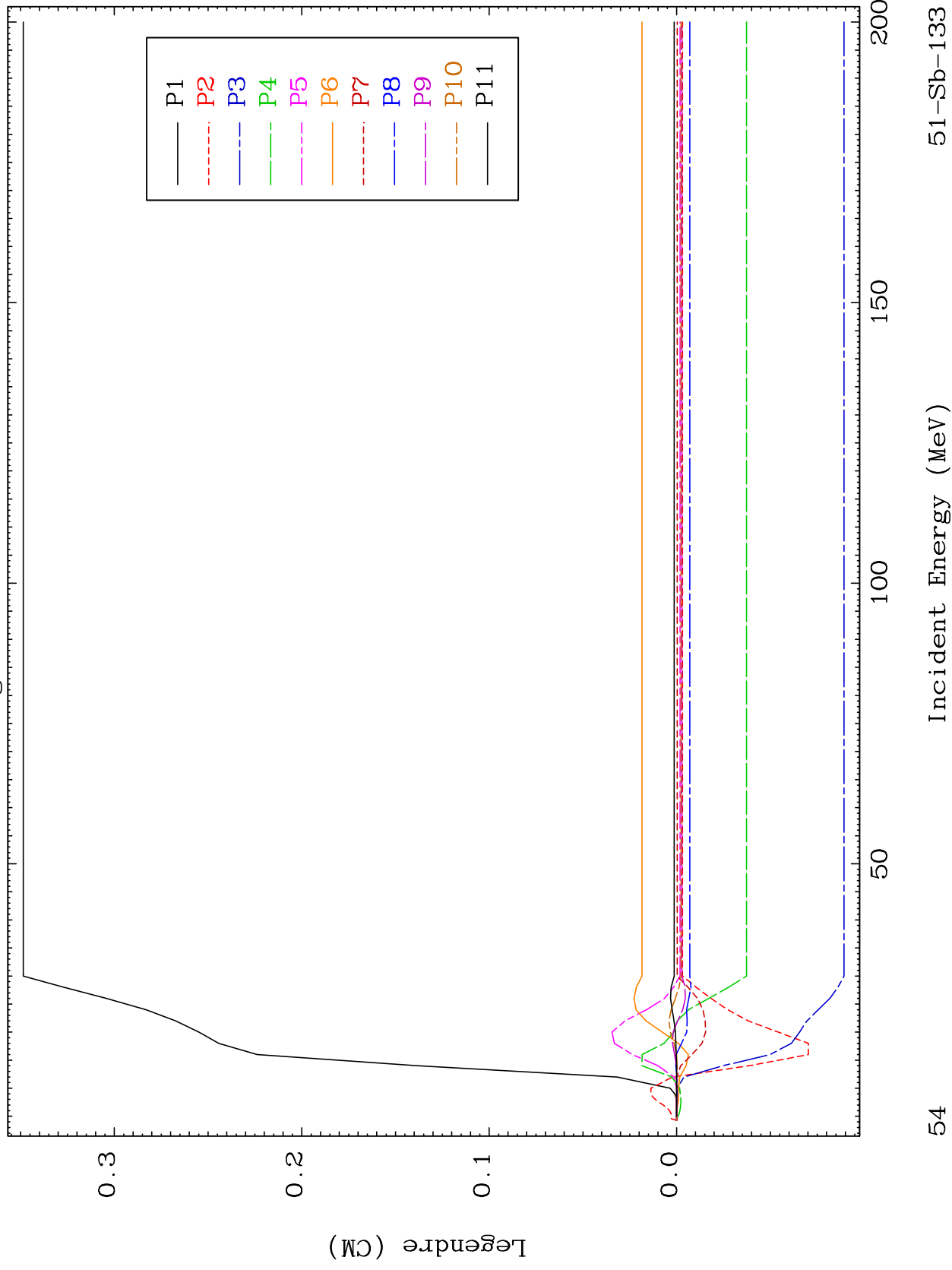
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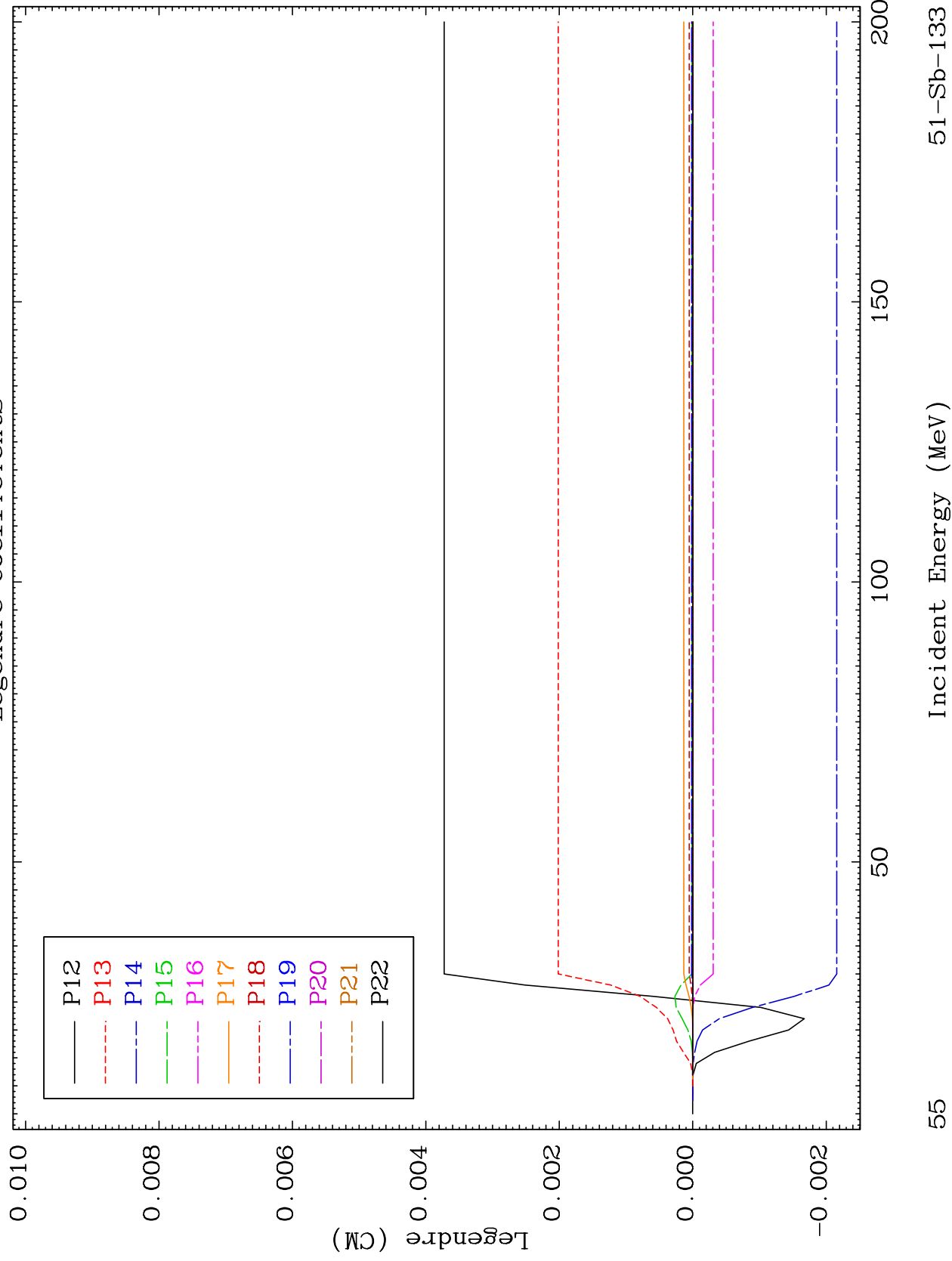
Incident Energy (MeV)

51-Sb-133

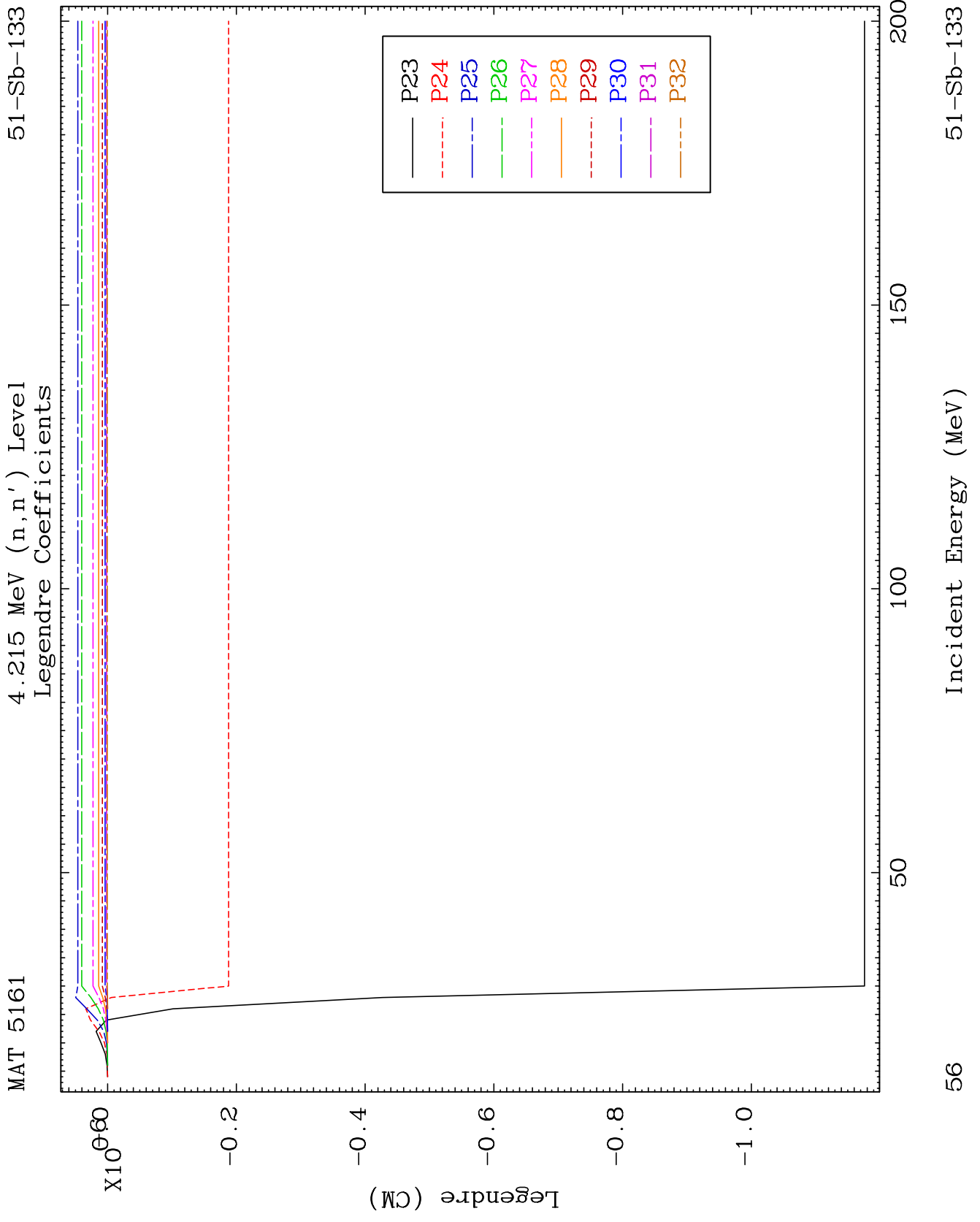


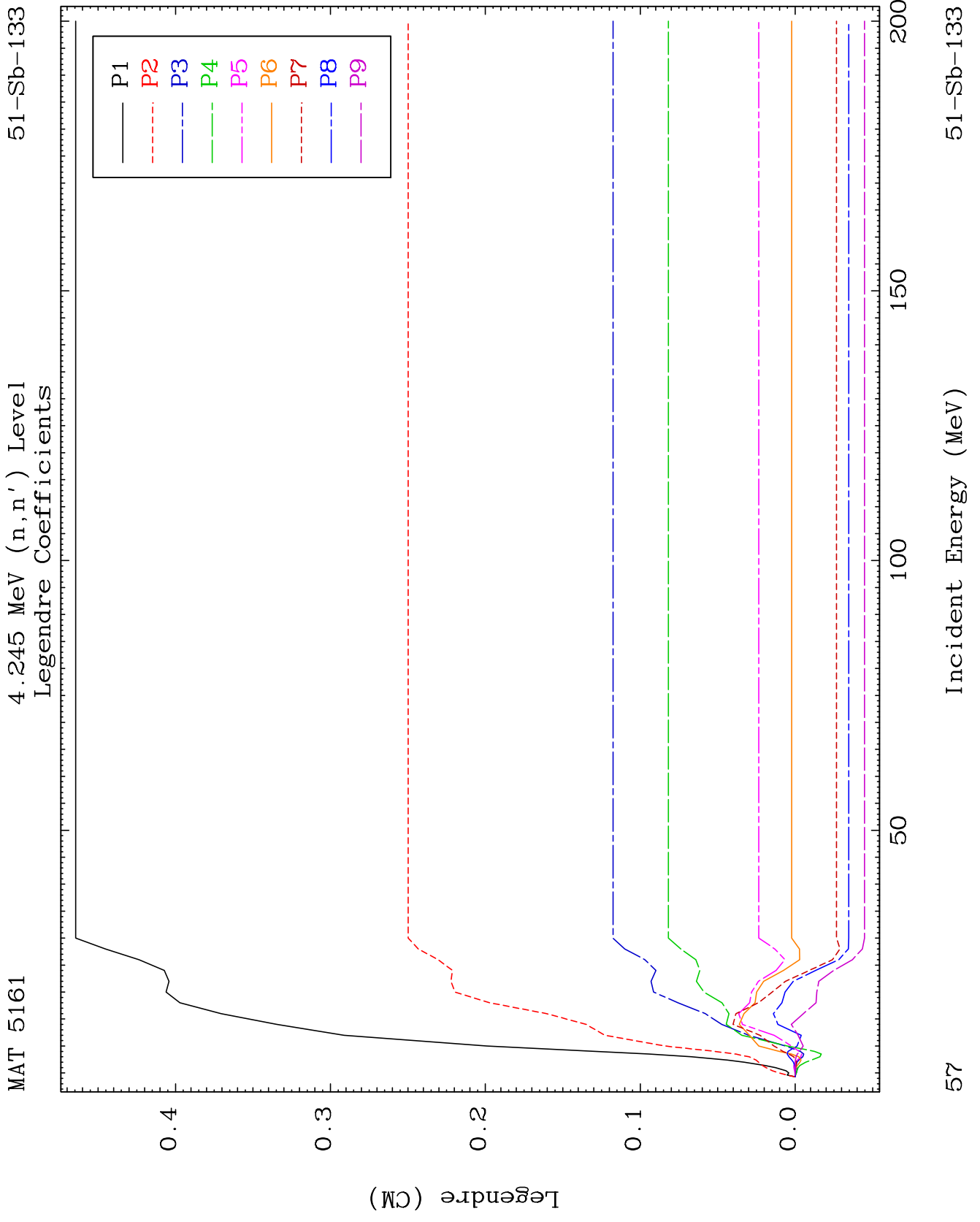


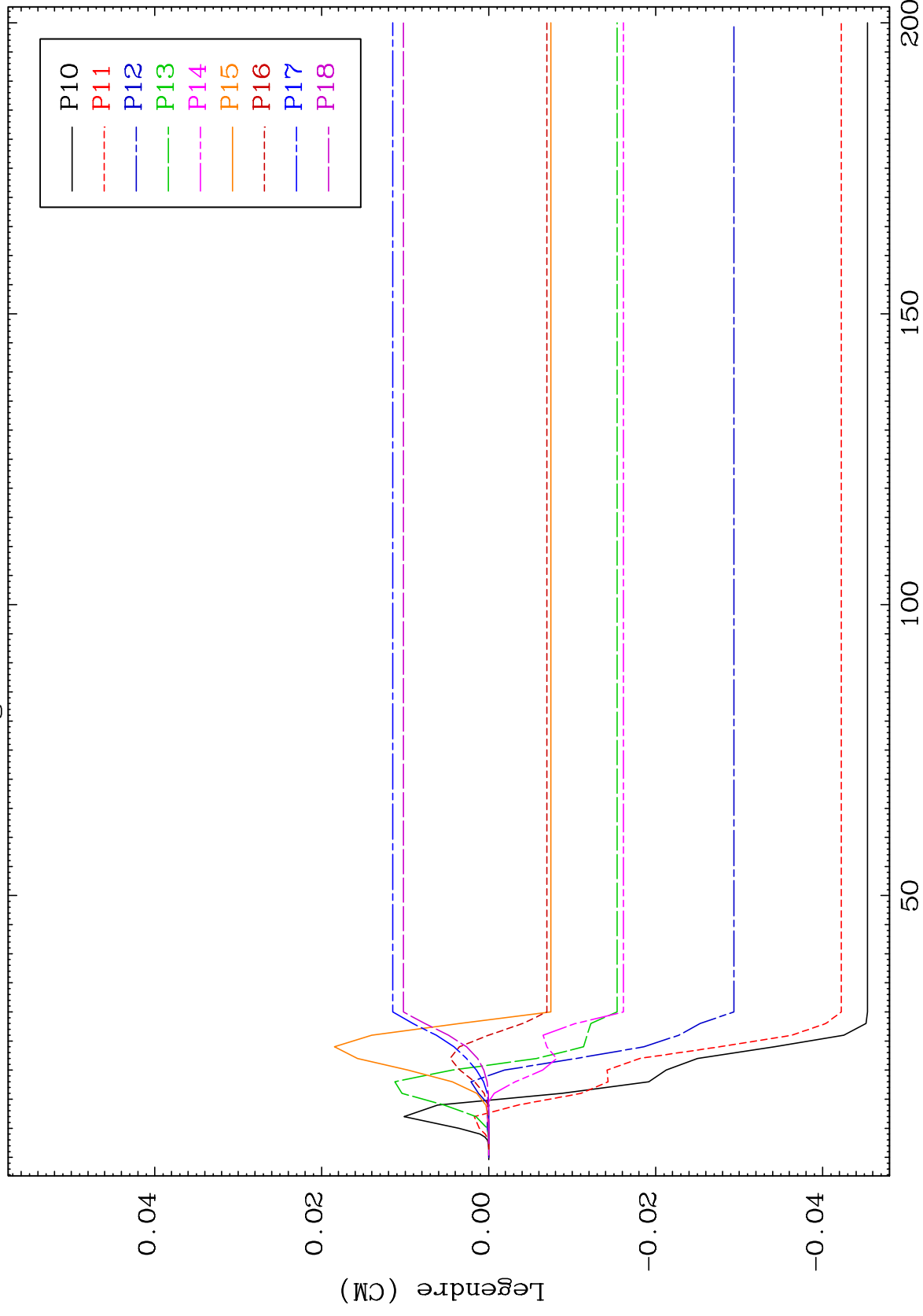


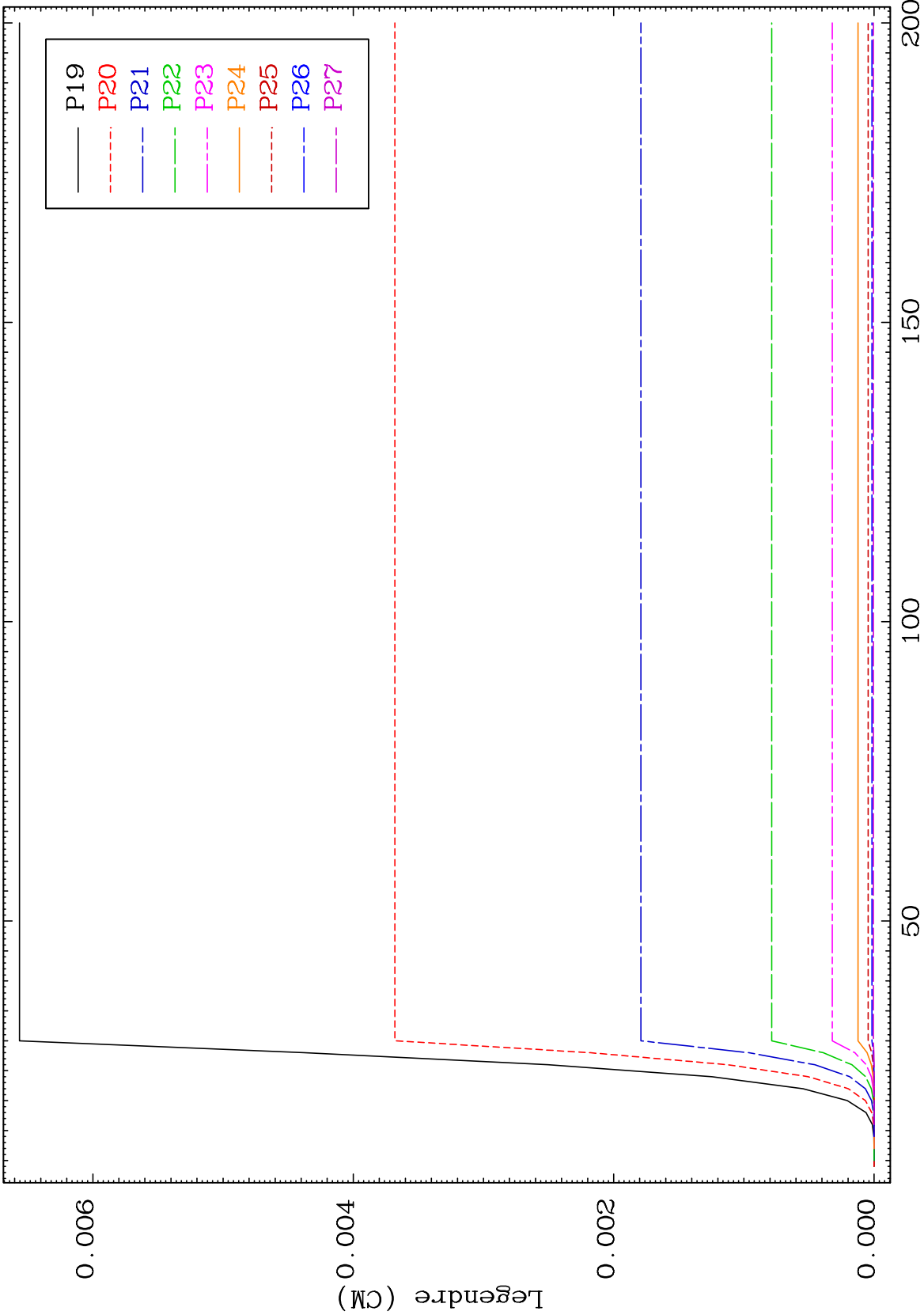


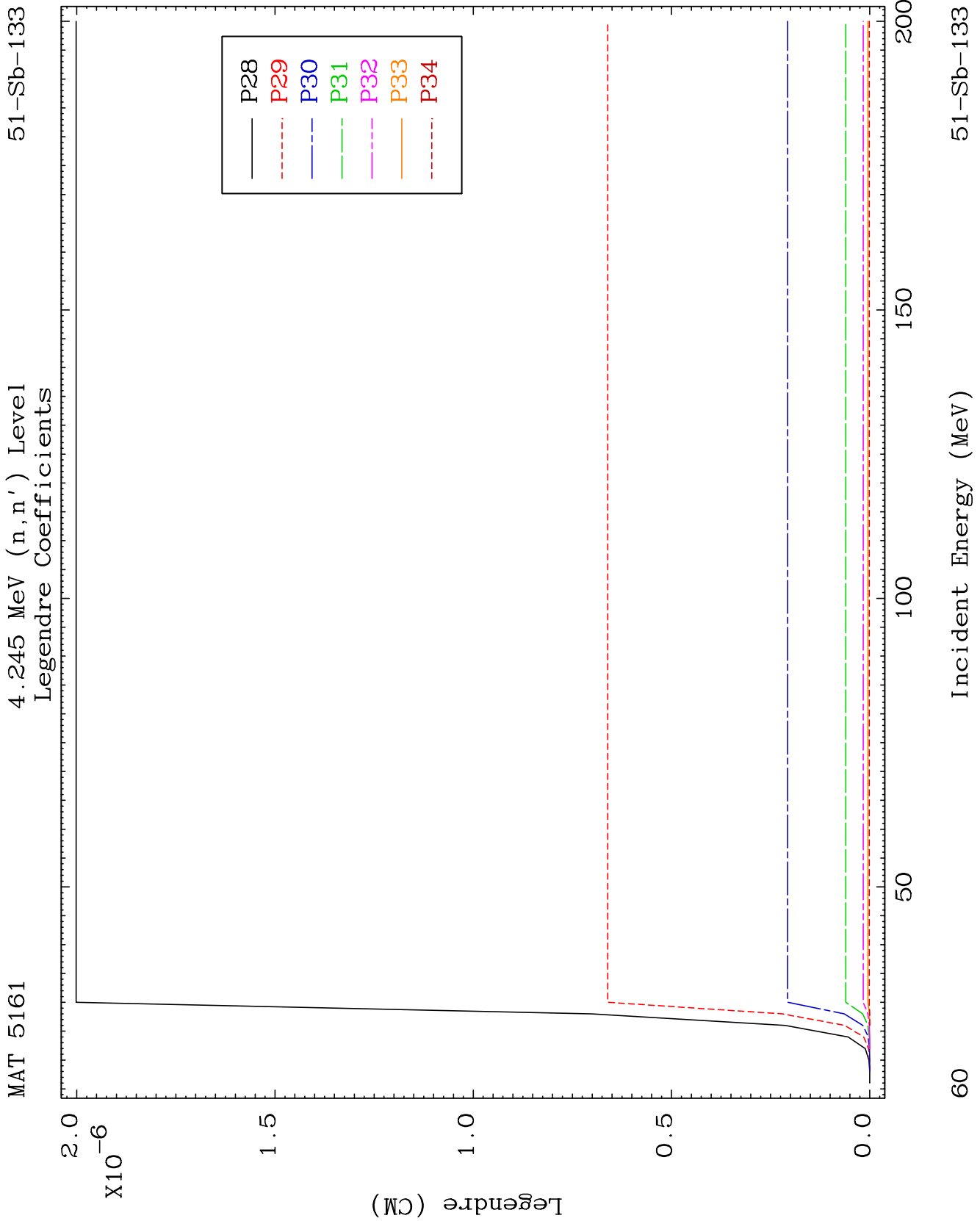


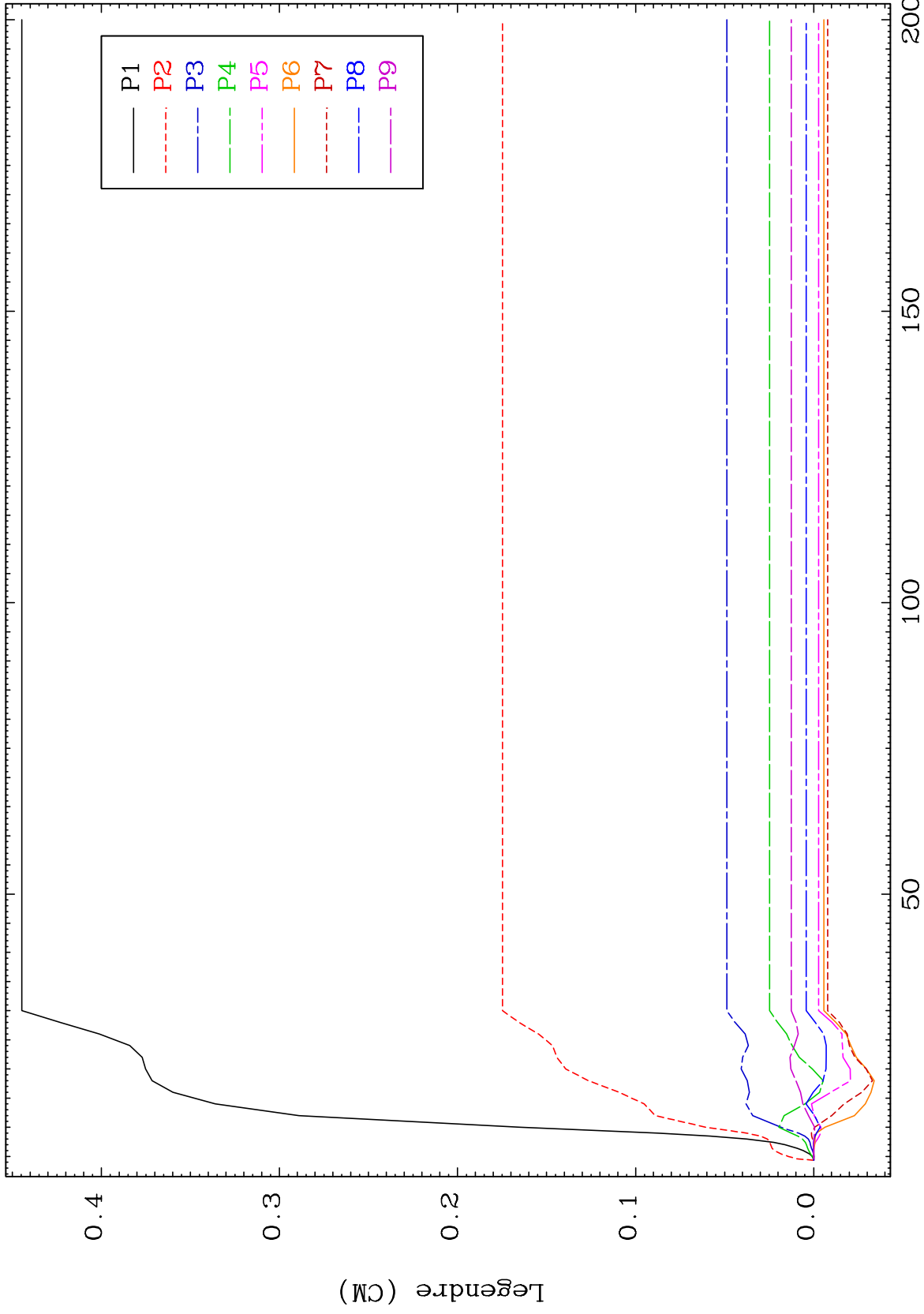








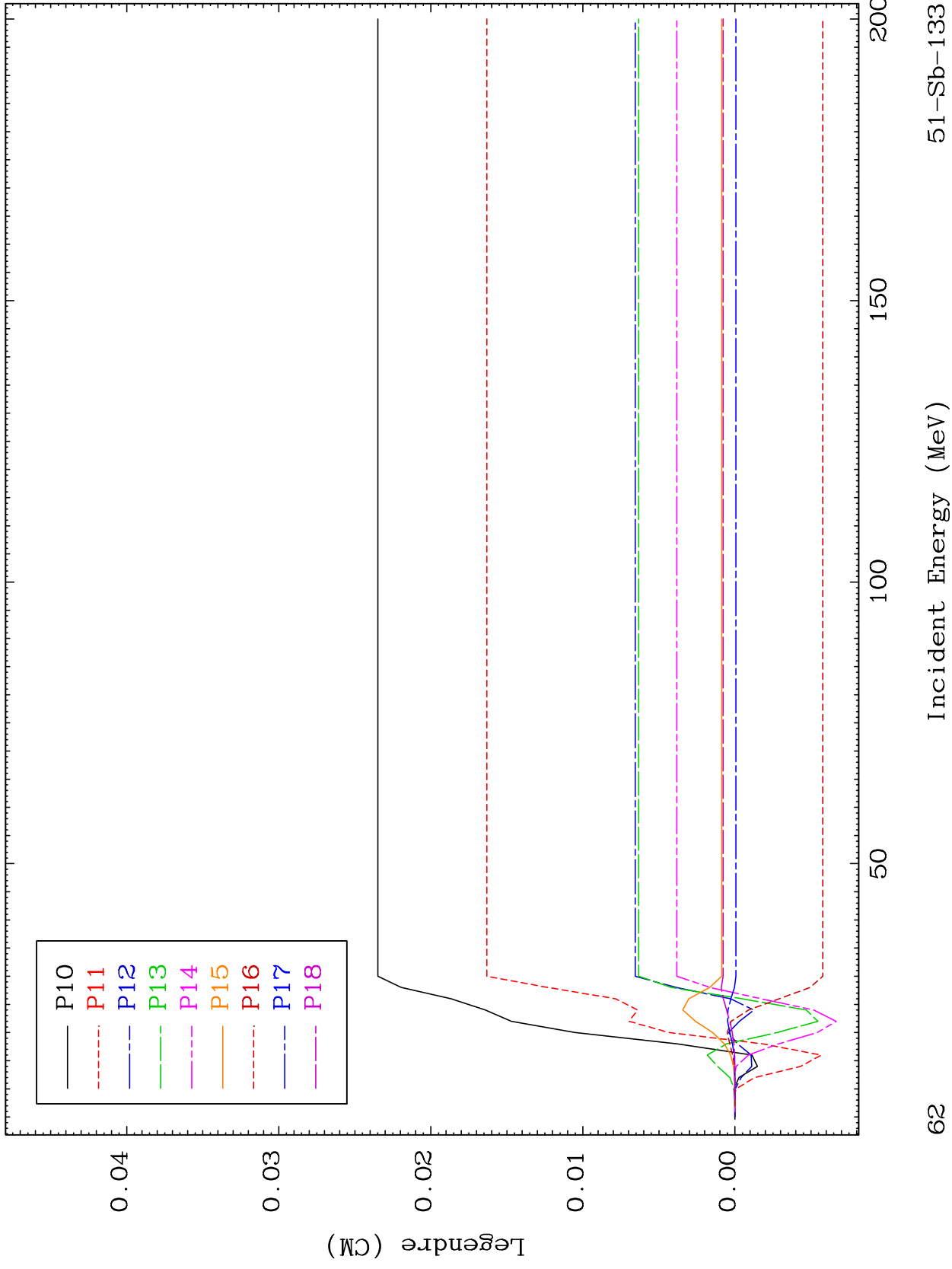




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4.290 MeV (n,n') Level  
Legendre Coefficients

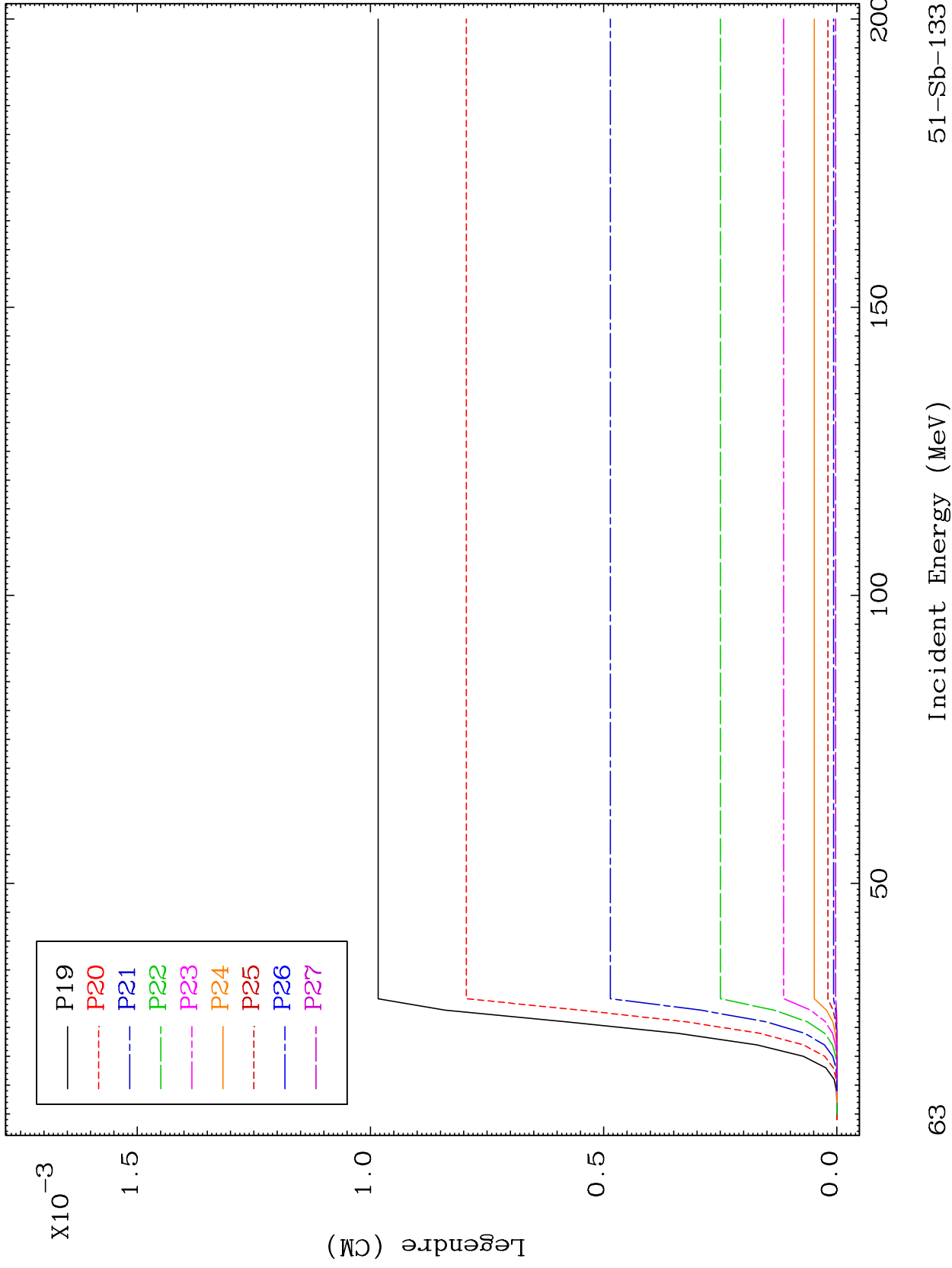
51-Sb-133



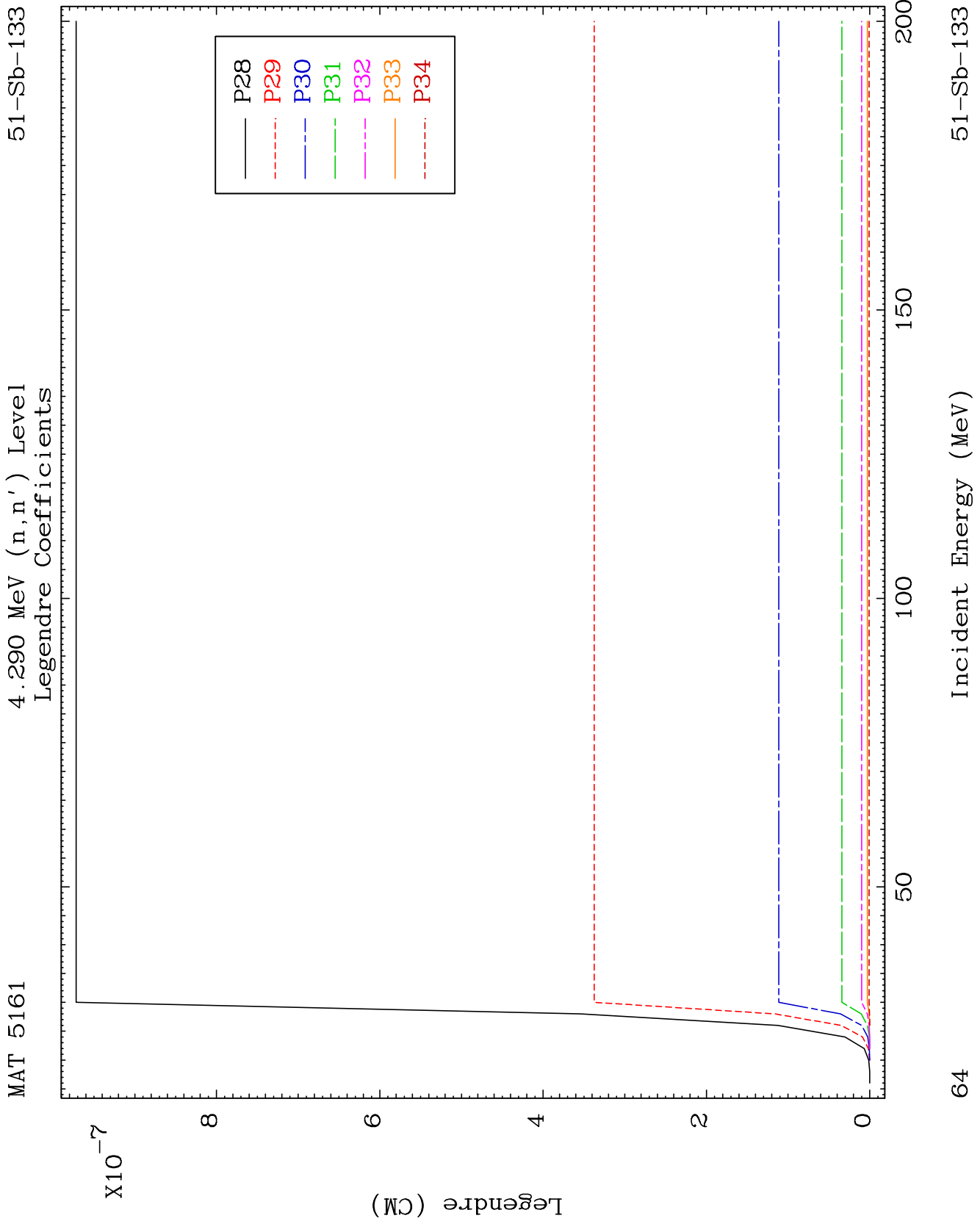
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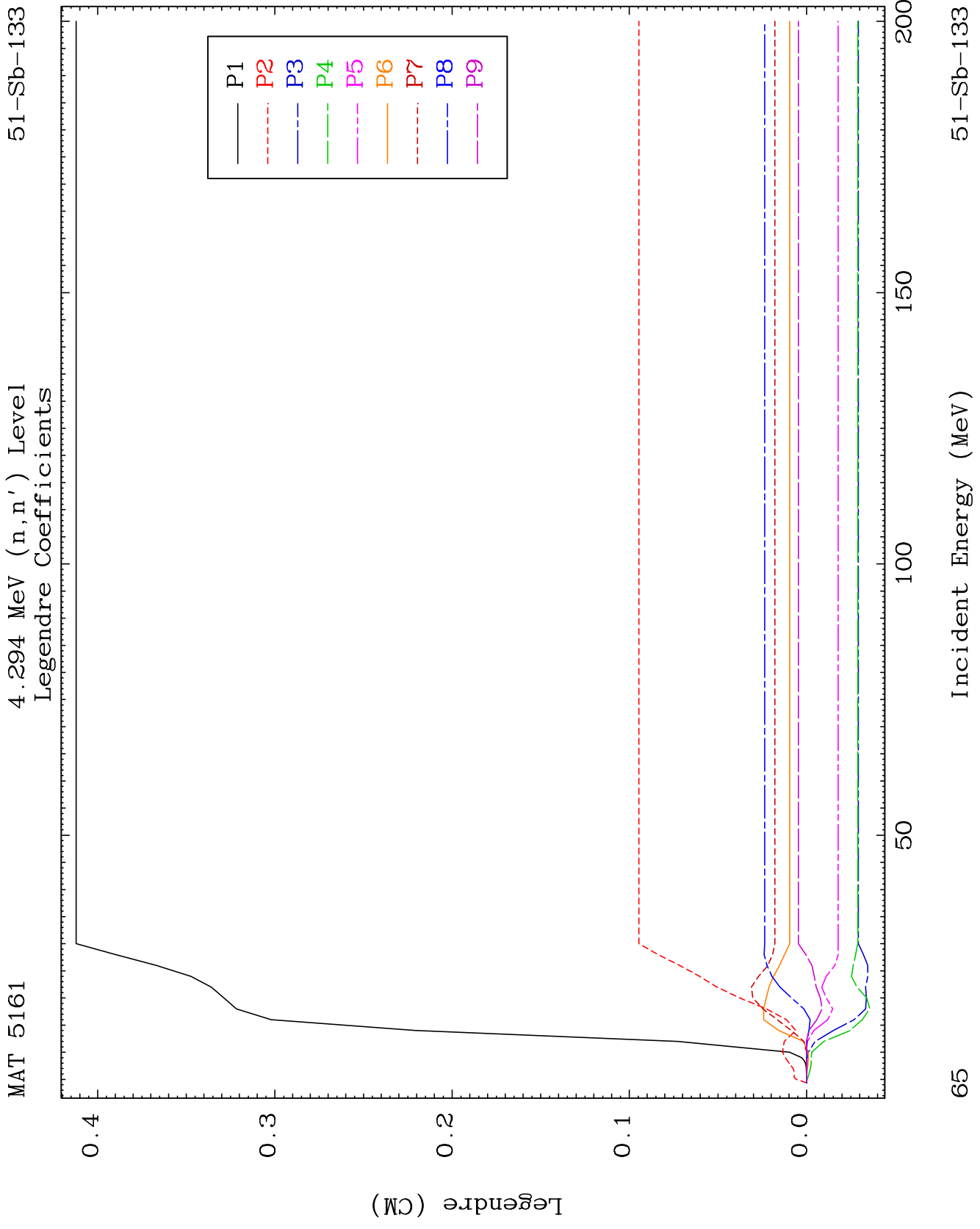
Incident Energy (MeV)

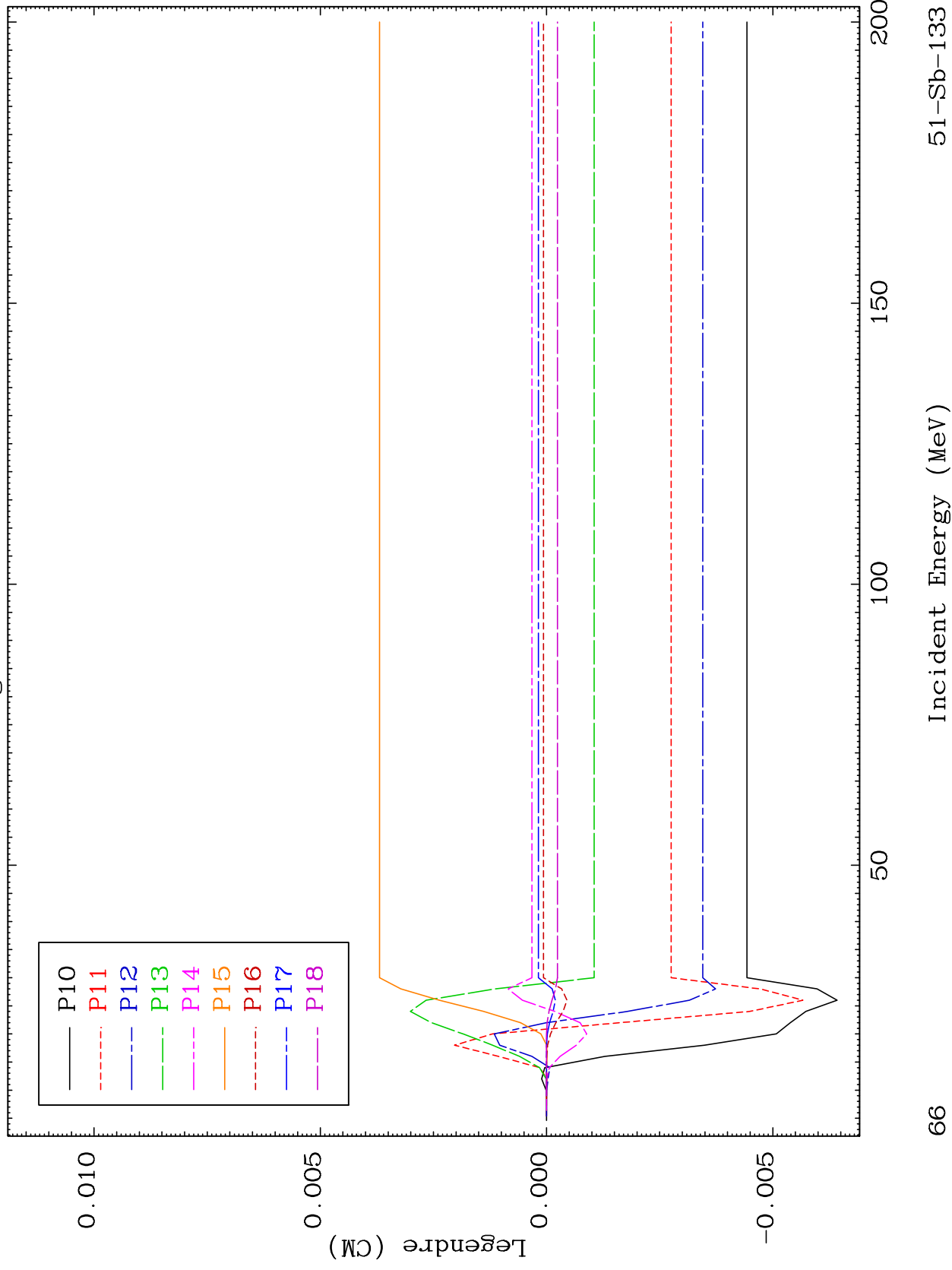
51-Sb-133

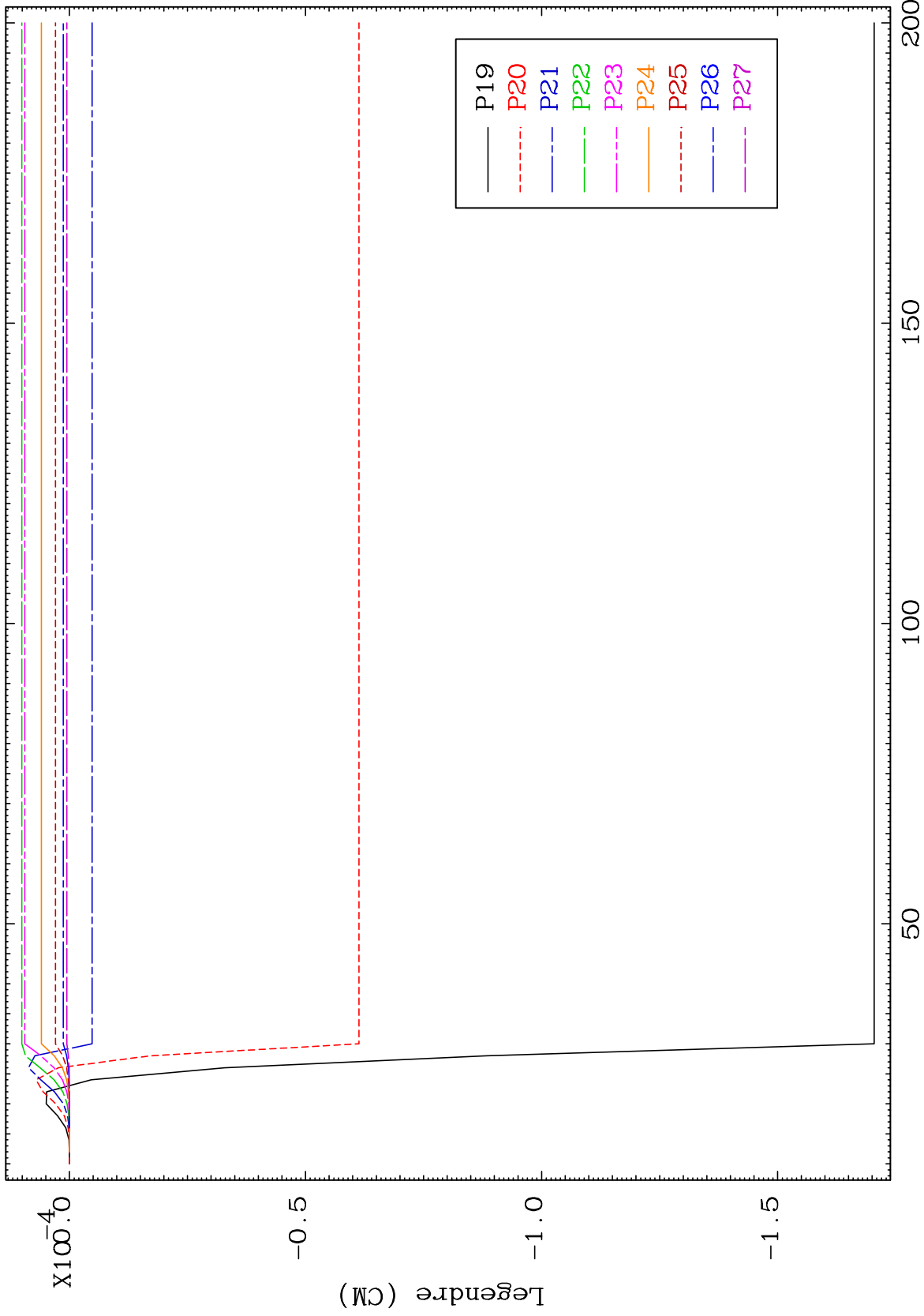


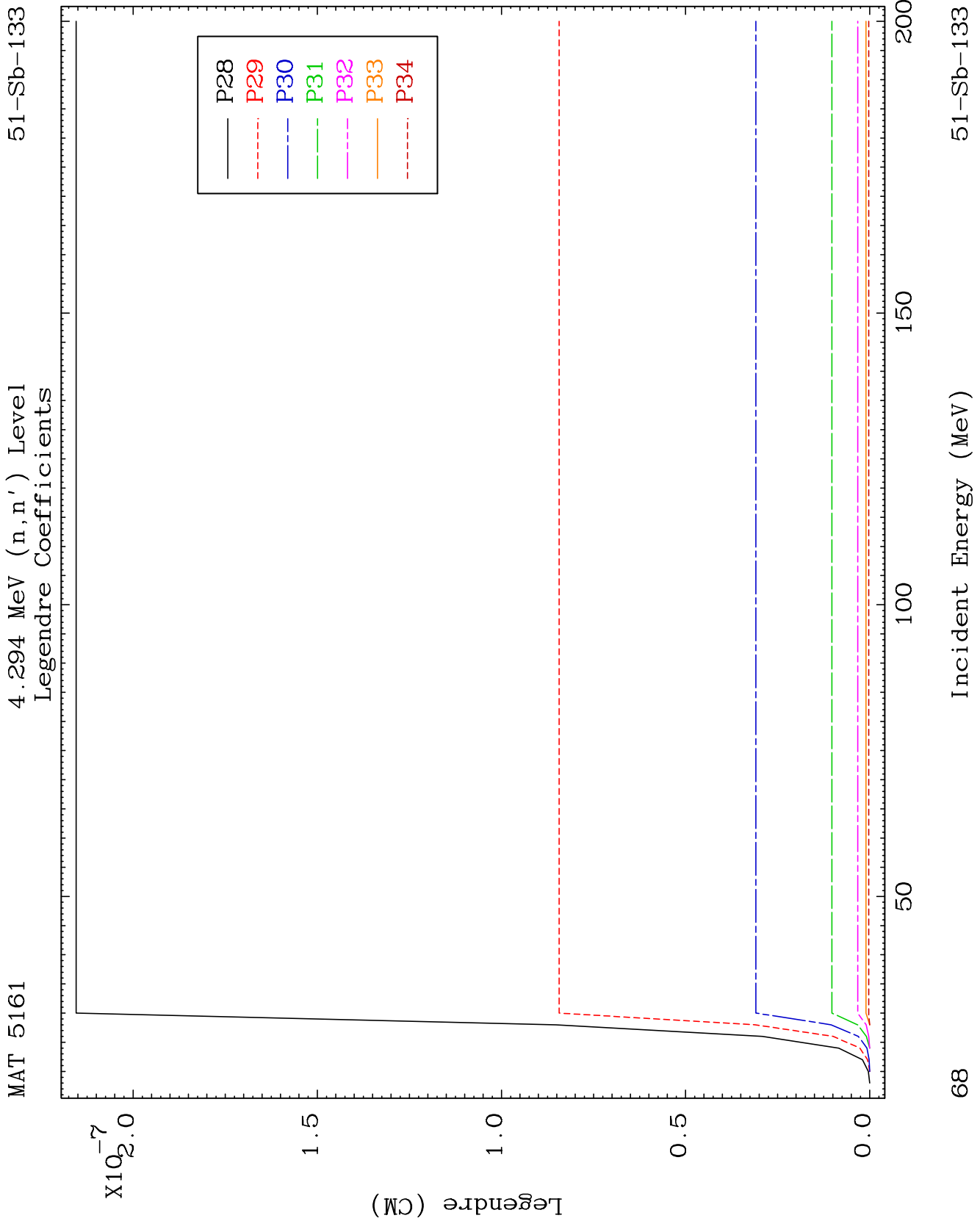


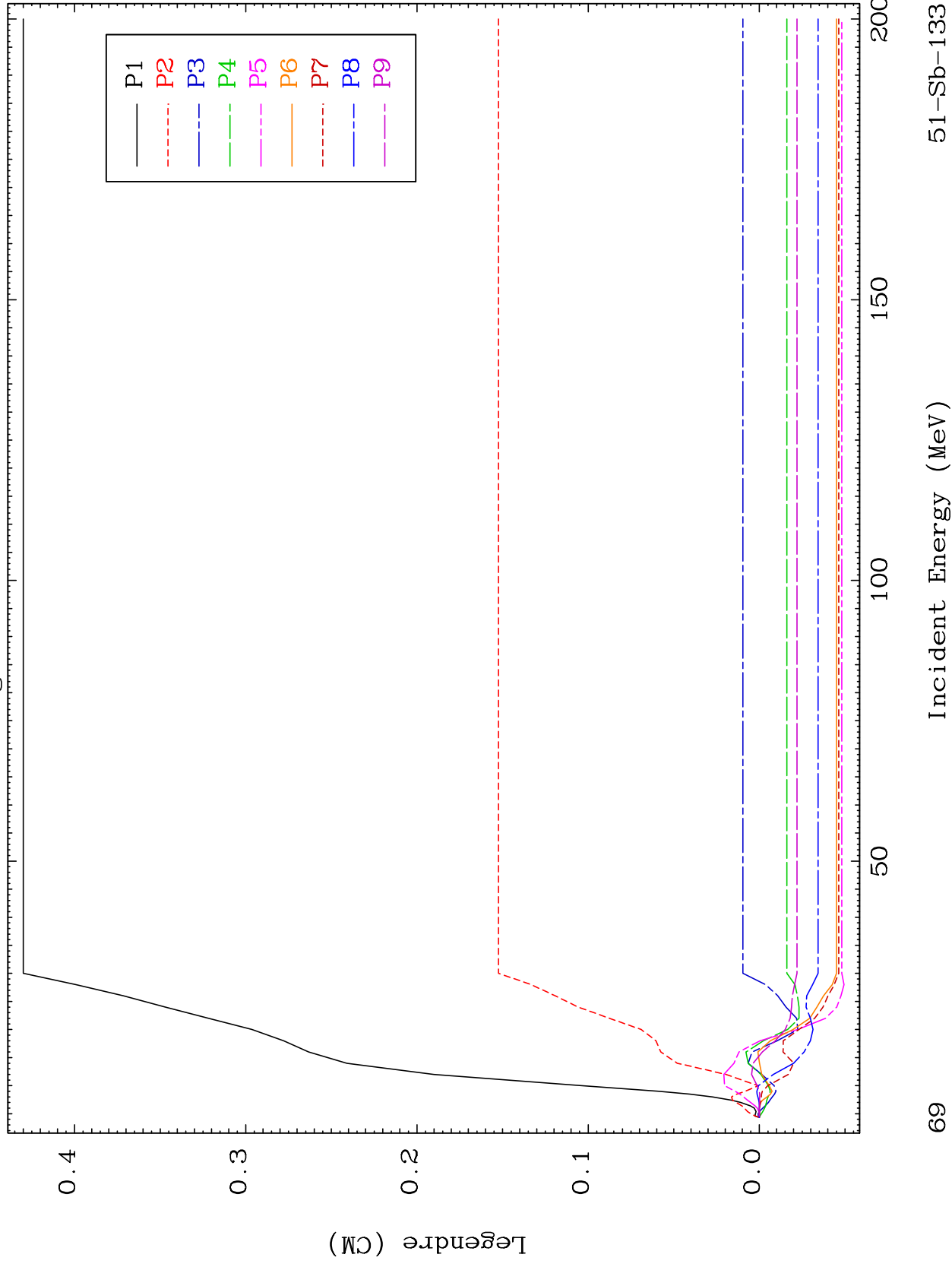








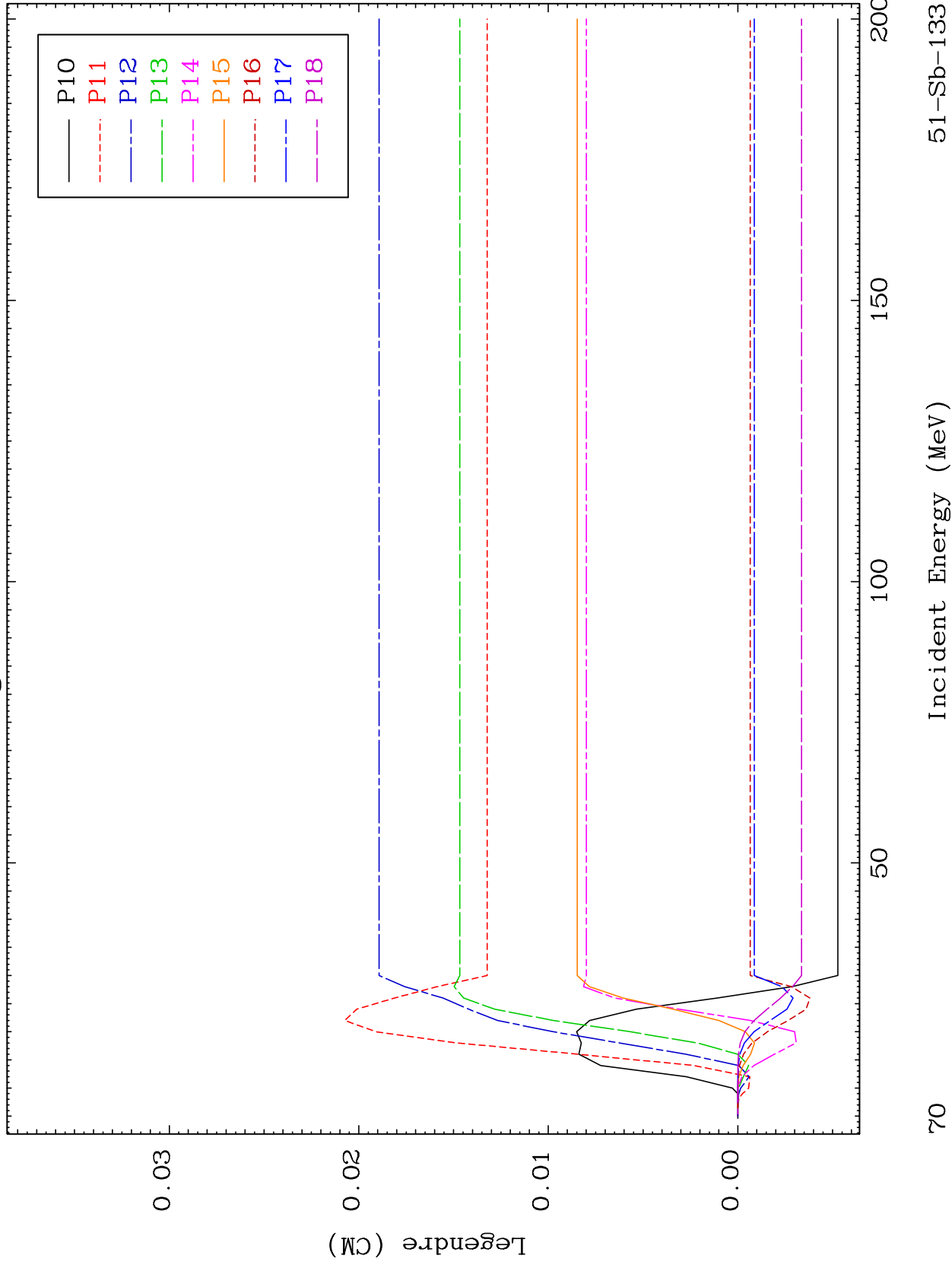




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4.296 MeV (n,n') Level  
Legendre Coefficients

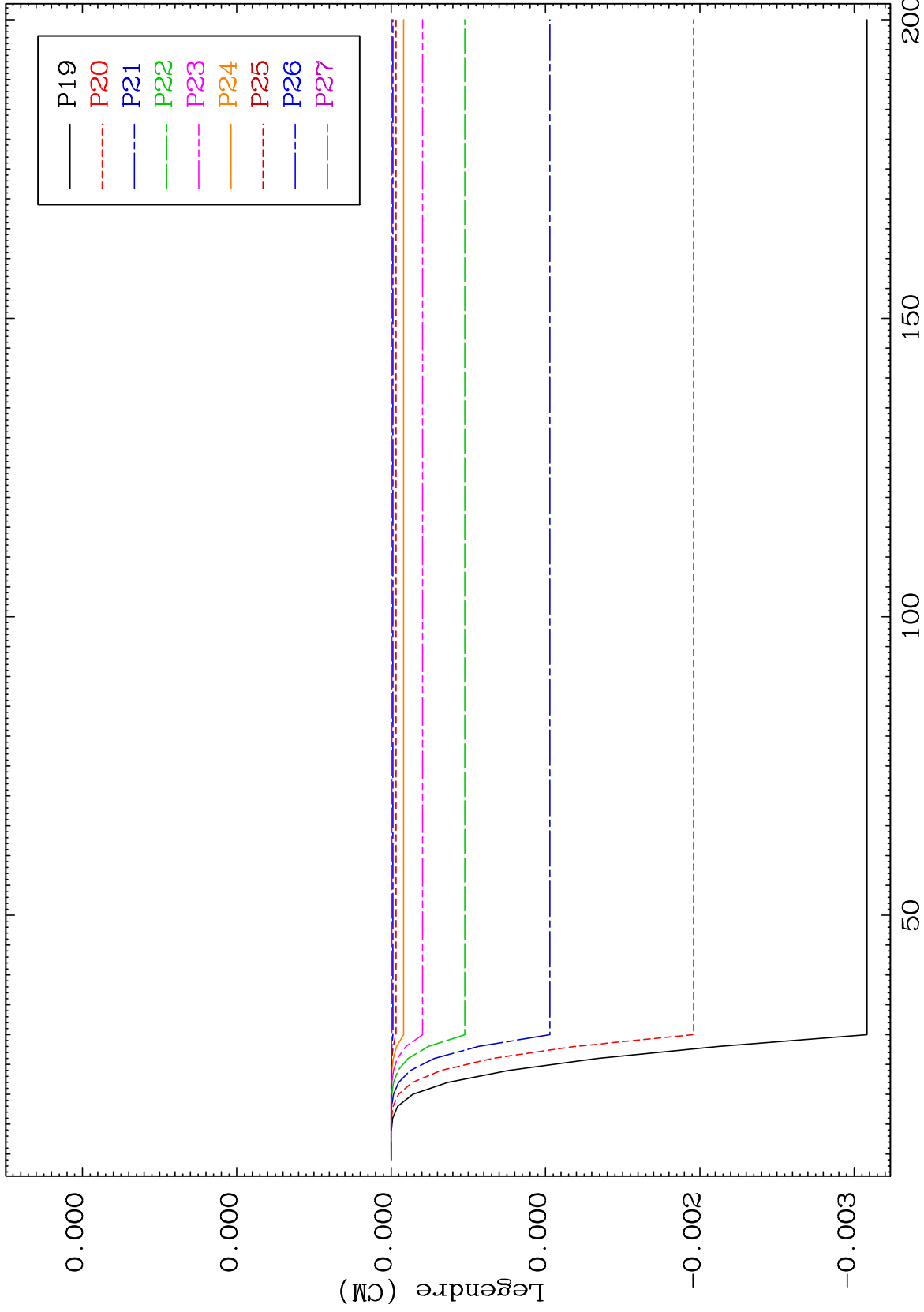
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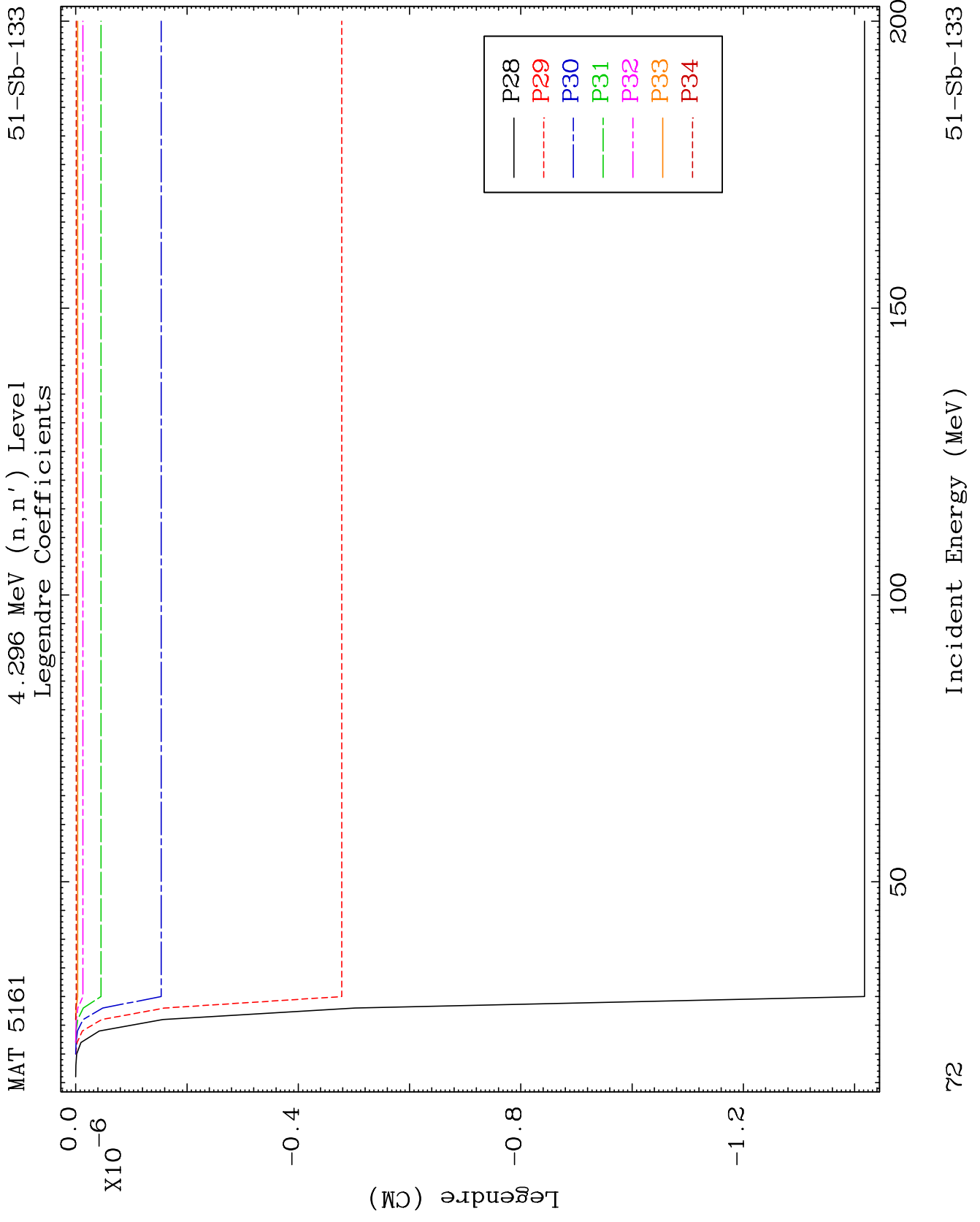
70

Incident Energy (MeV)

51-Sb-133



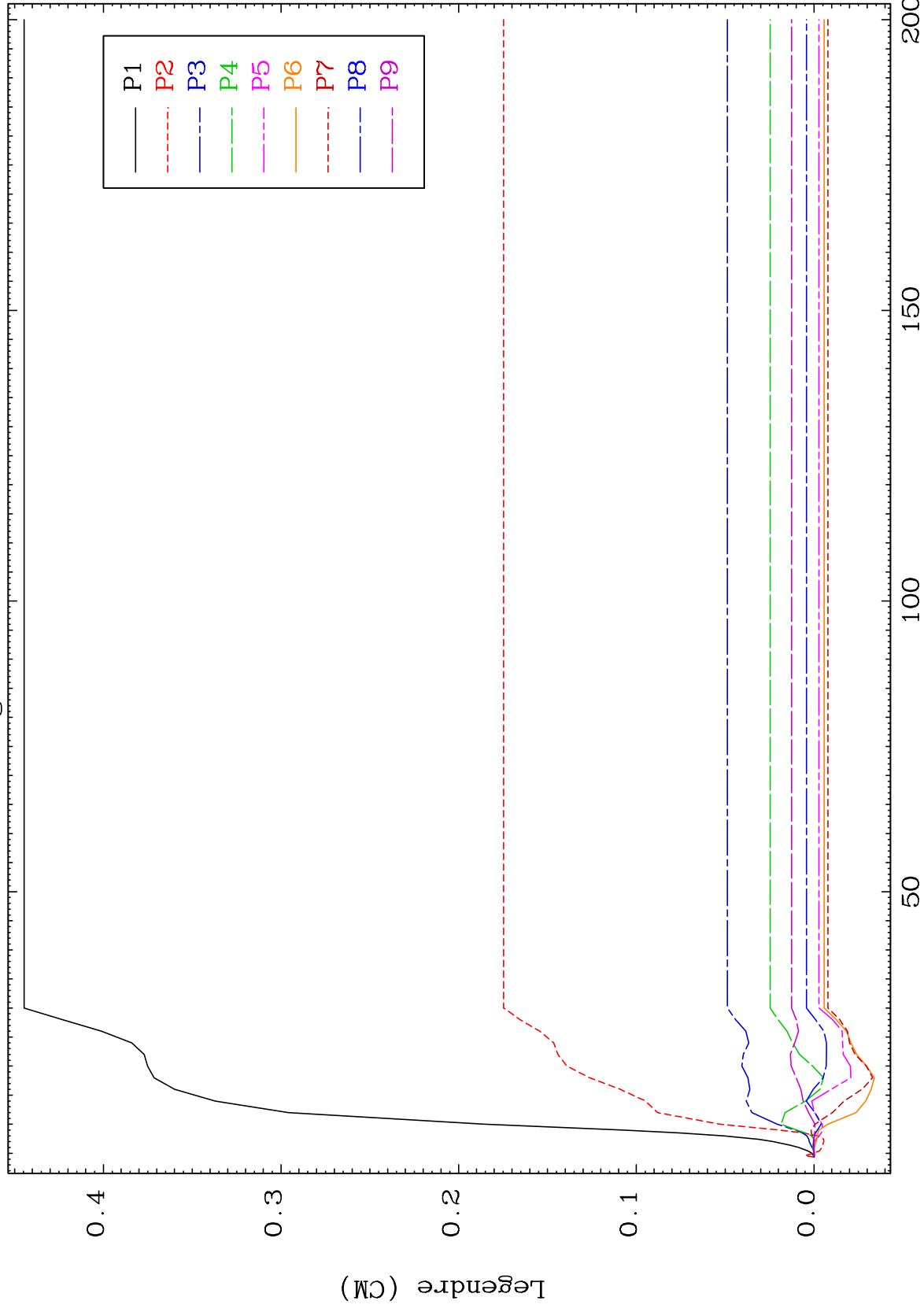




MAT 5161

4.299 MeV (n,n') Level  
Legendre Coefficients

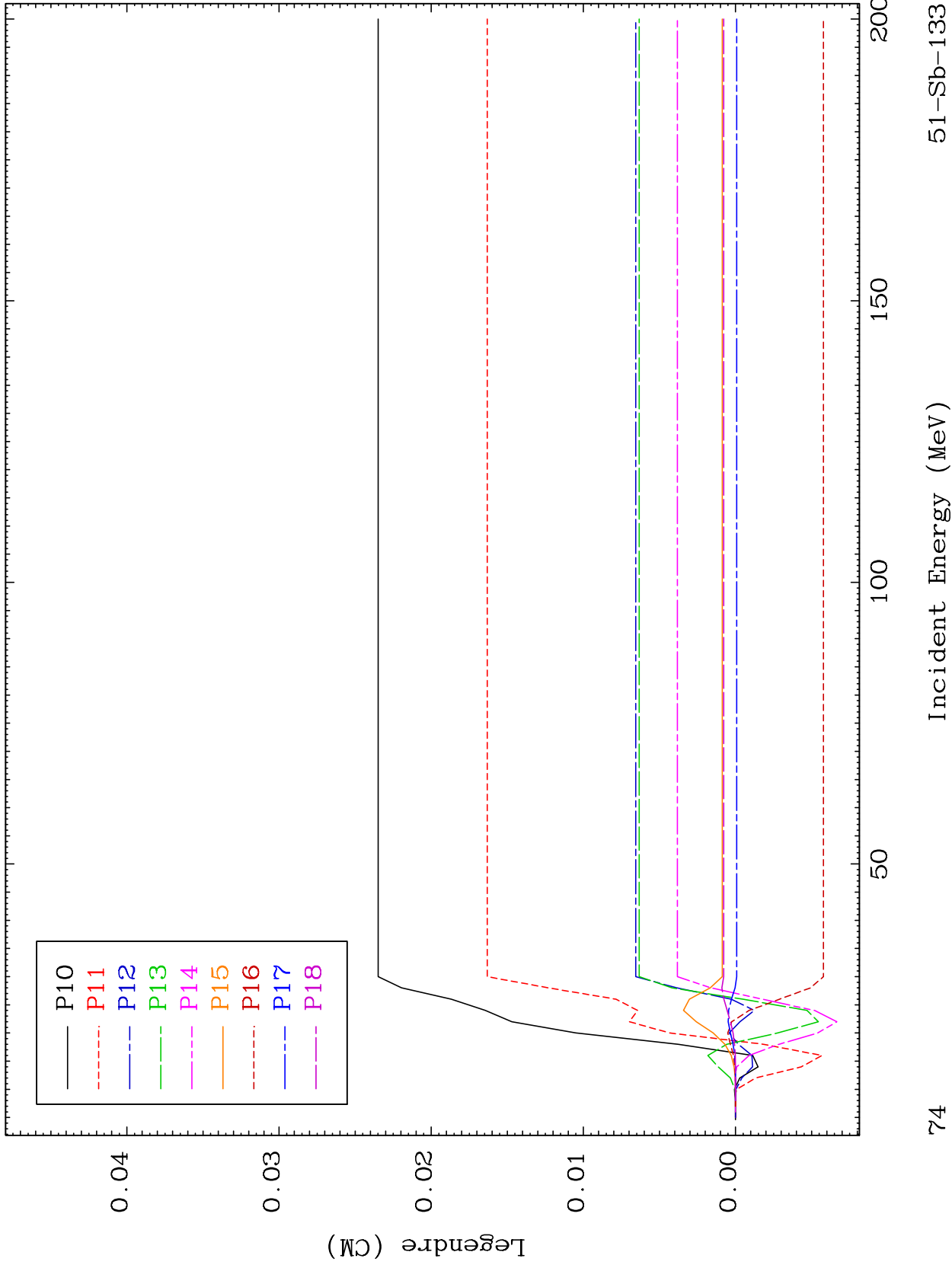
51-Sb-133



73

Incident Energy (MeV)

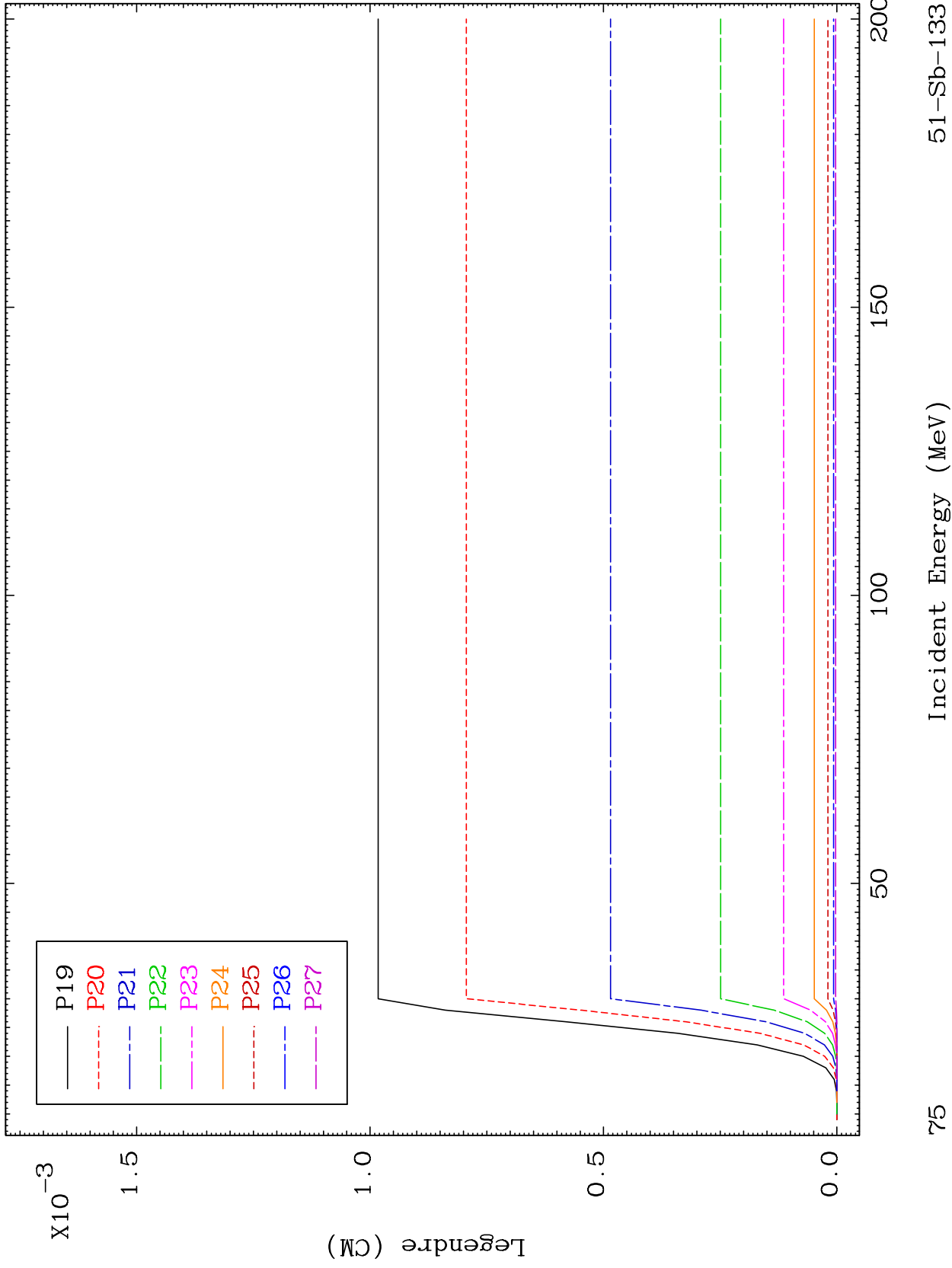
51-Sb-133



MAT 5161

4.299 MeV (n, n') Level  
Legendre Coefficients

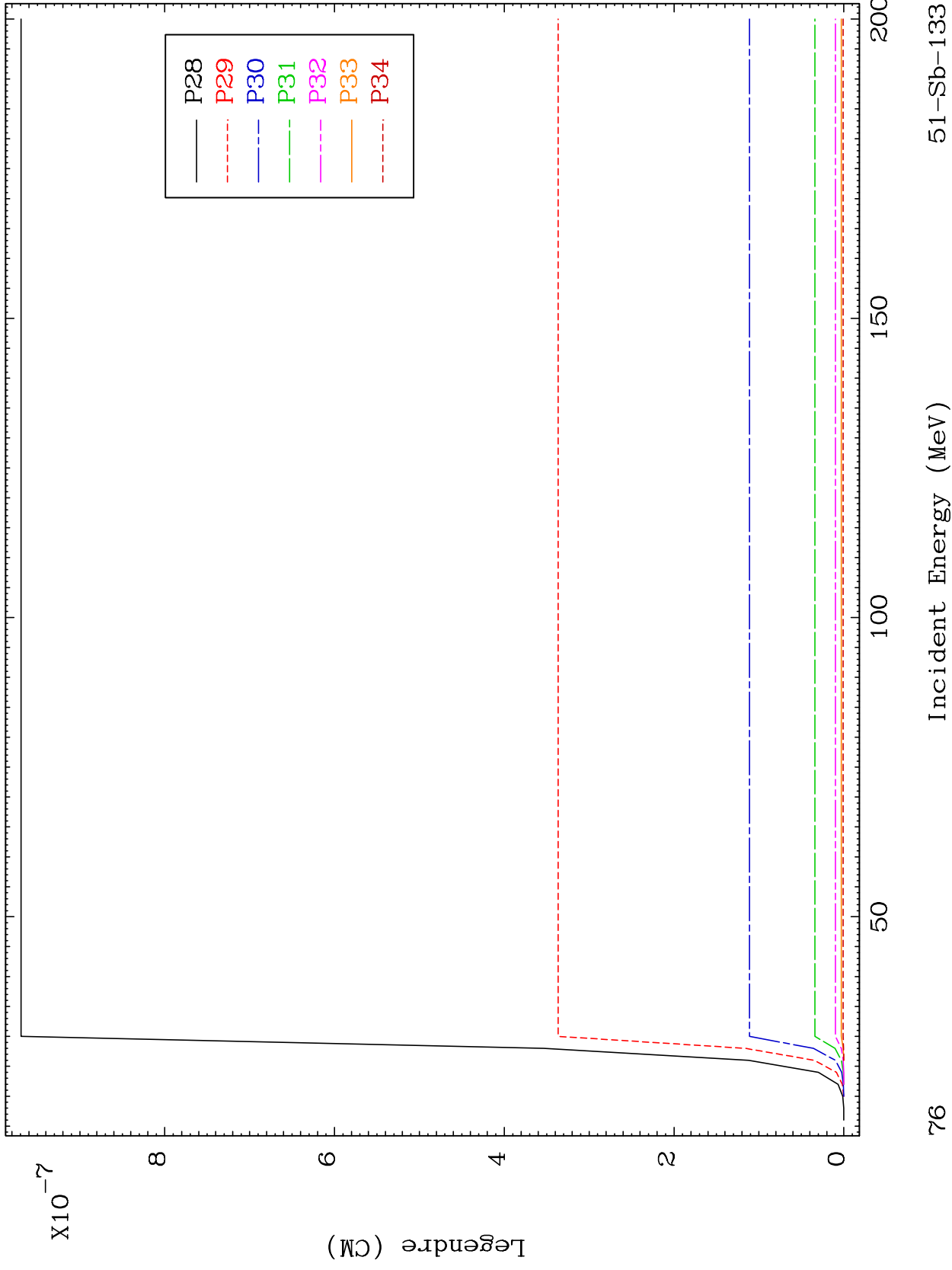
51-Sb-133

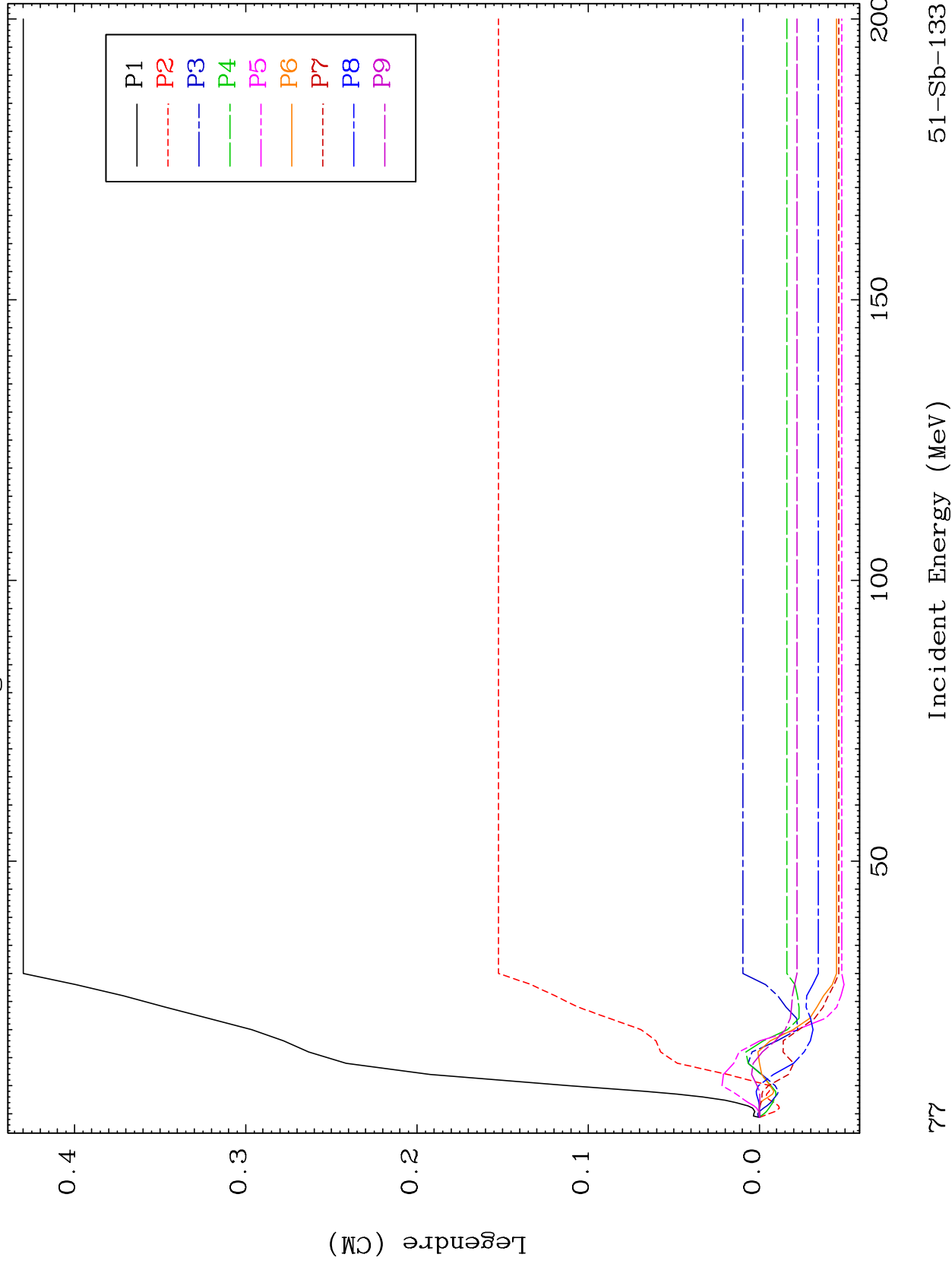


MAT 5161

4.299 MeV (n, n') Level  
Legendre Coefficients

51-Sb-133

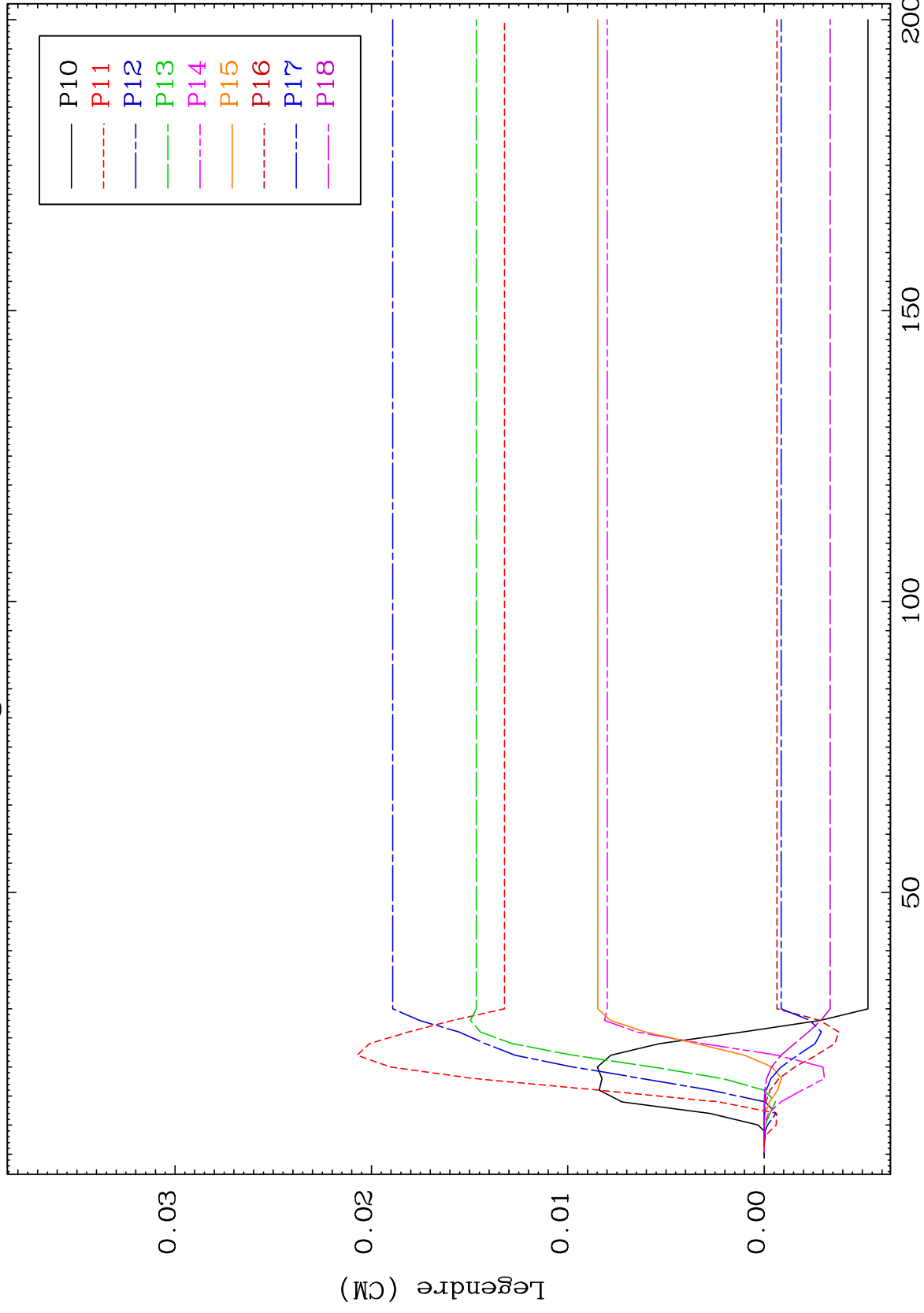




MAT 5161

4.302 MeV (n,n') Level  
Legendre Coefficients

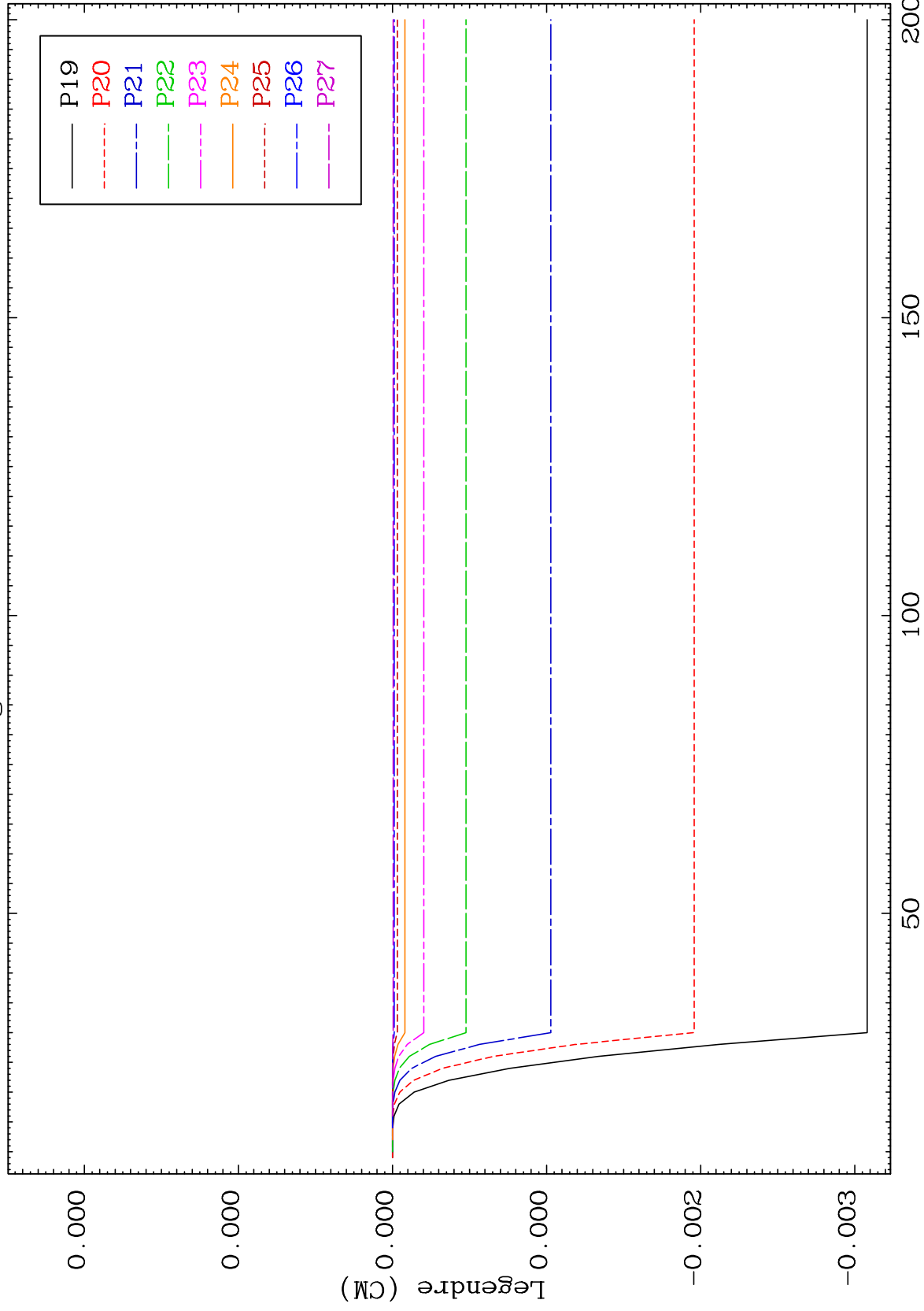
51-Sb-133



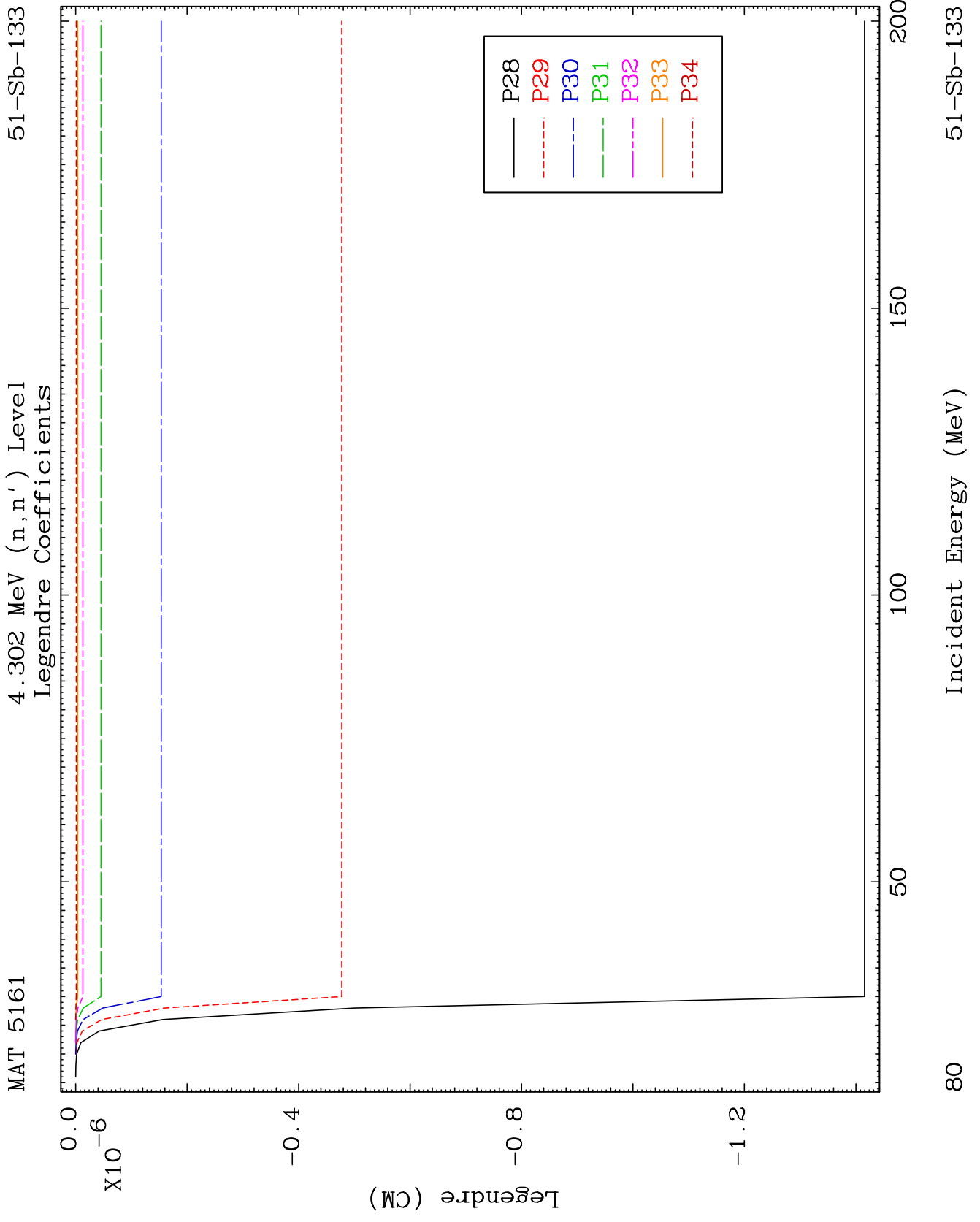
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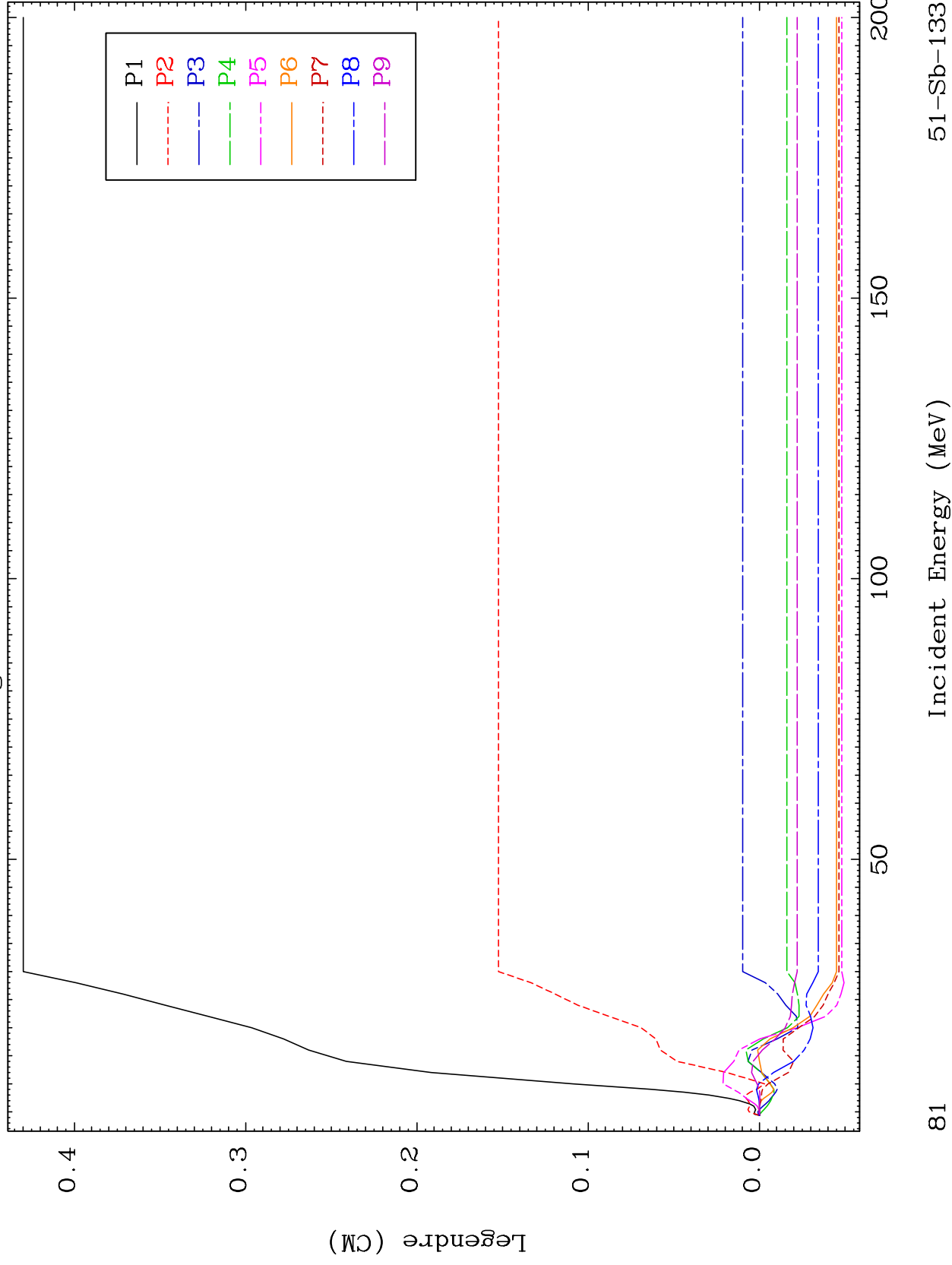
Incident Energy (MeV)

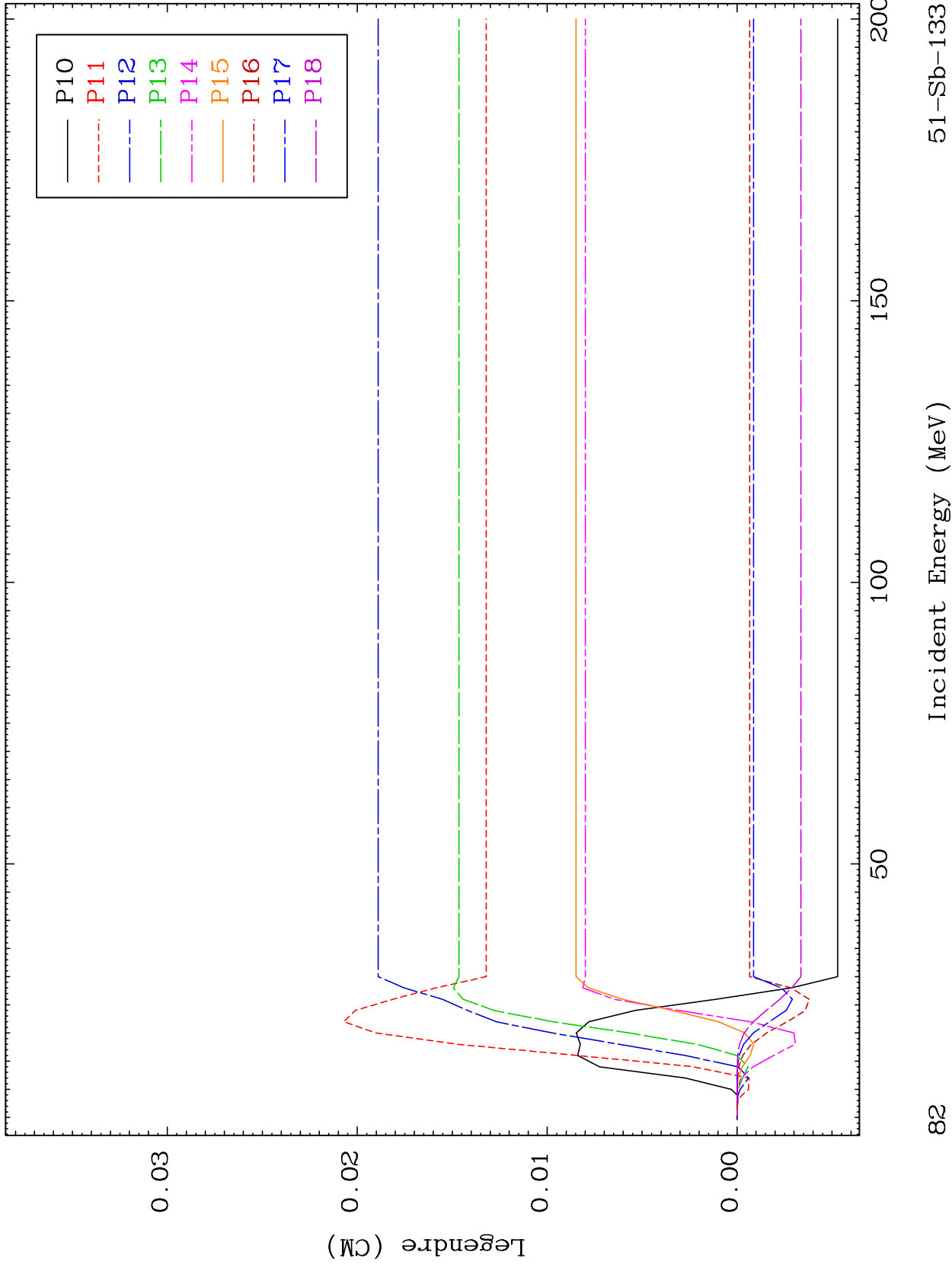
51-Sb-133

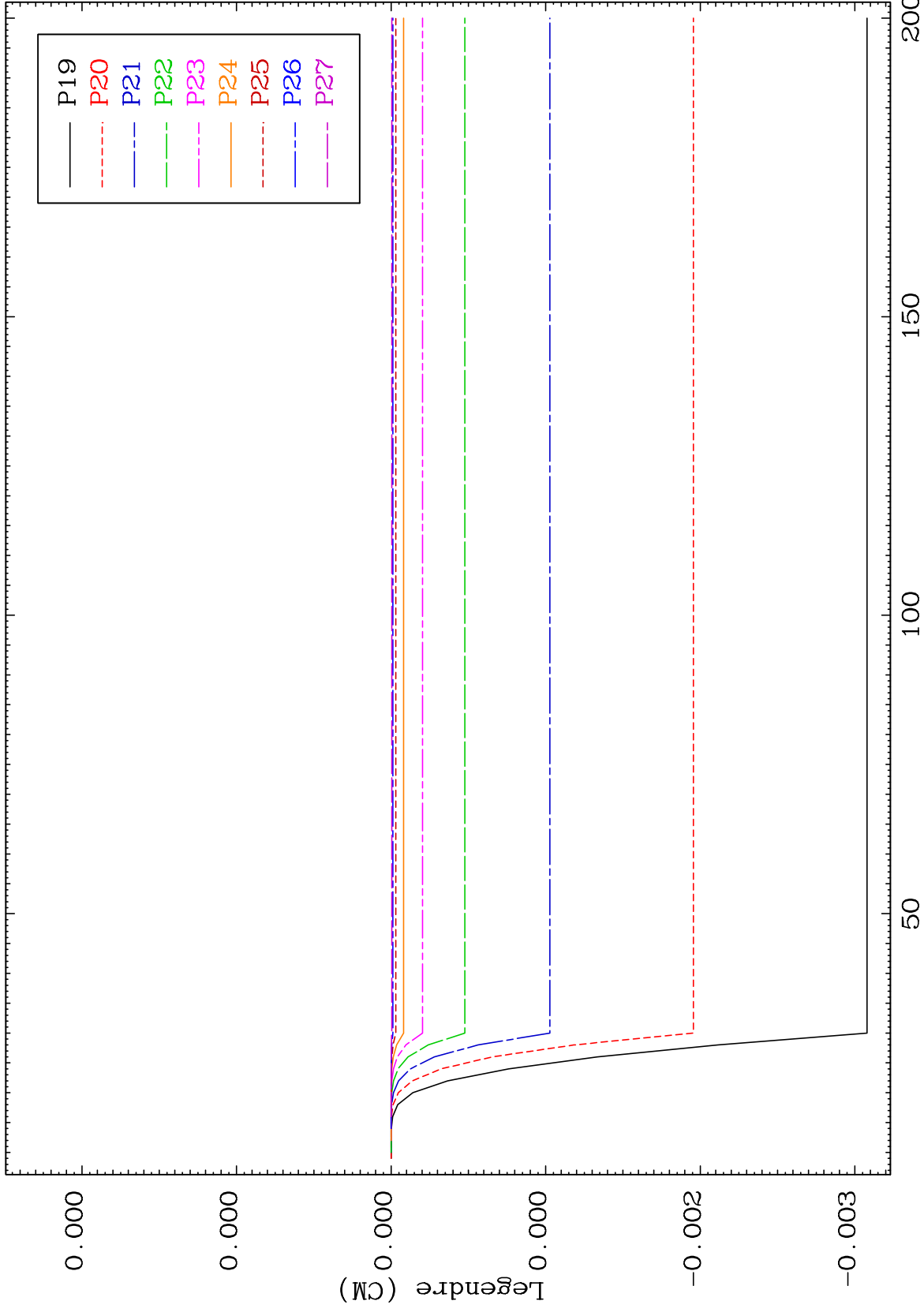


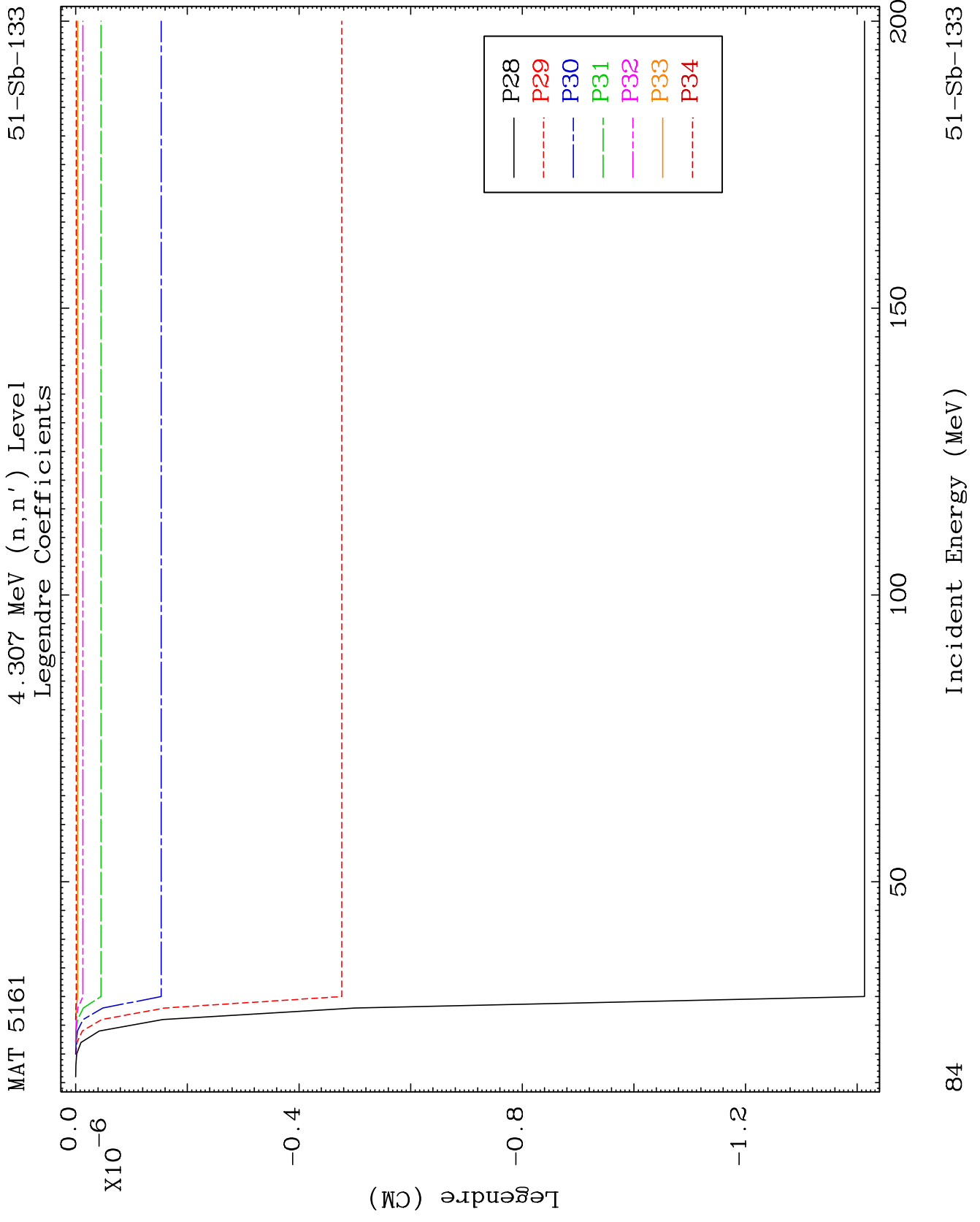










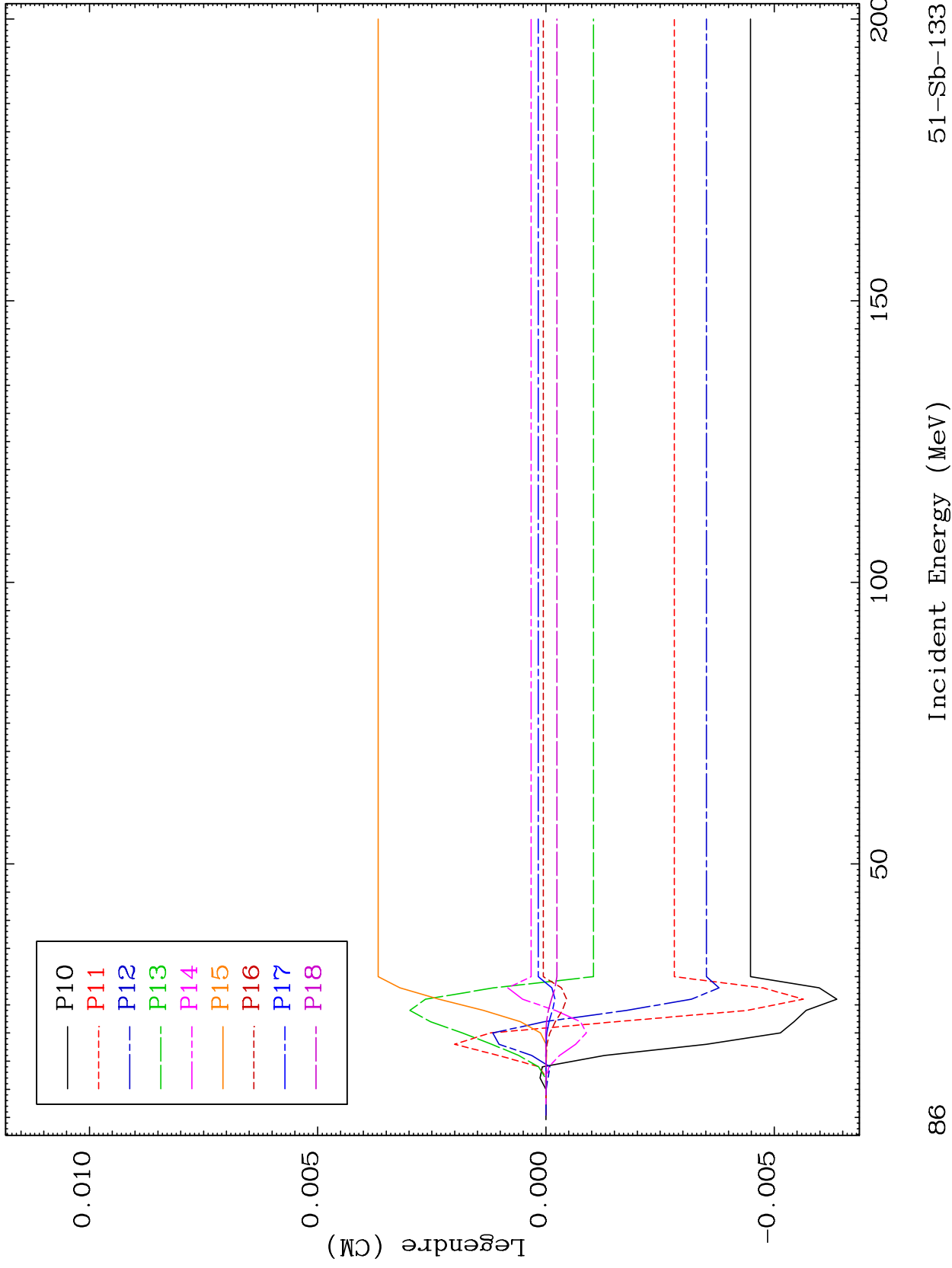




MAT 5161

4.359 MeV (n, n') Level  
Legendre Coefficients

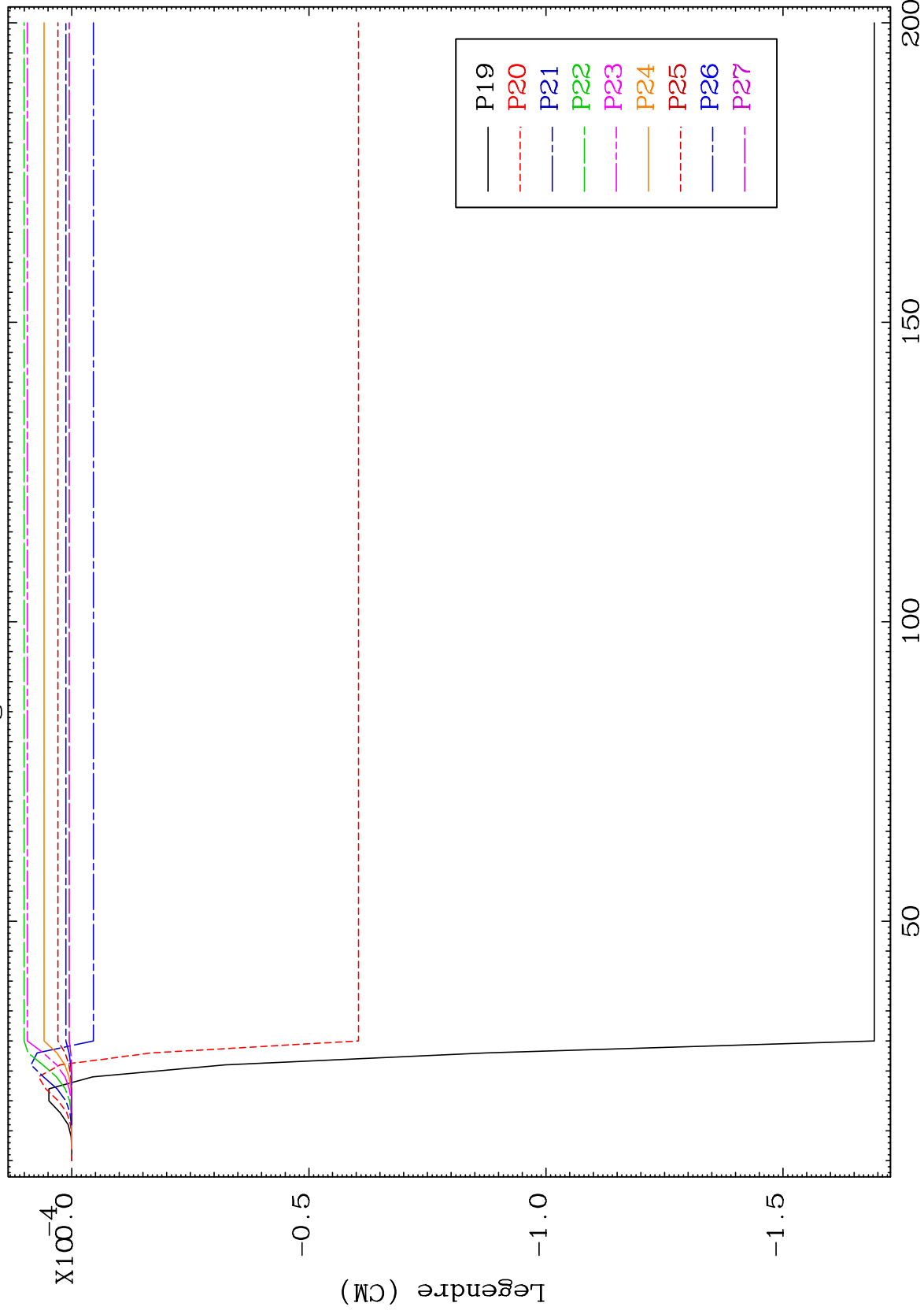
51-Sb-133



86

Incident Energy (MeV)

51-Sb-133

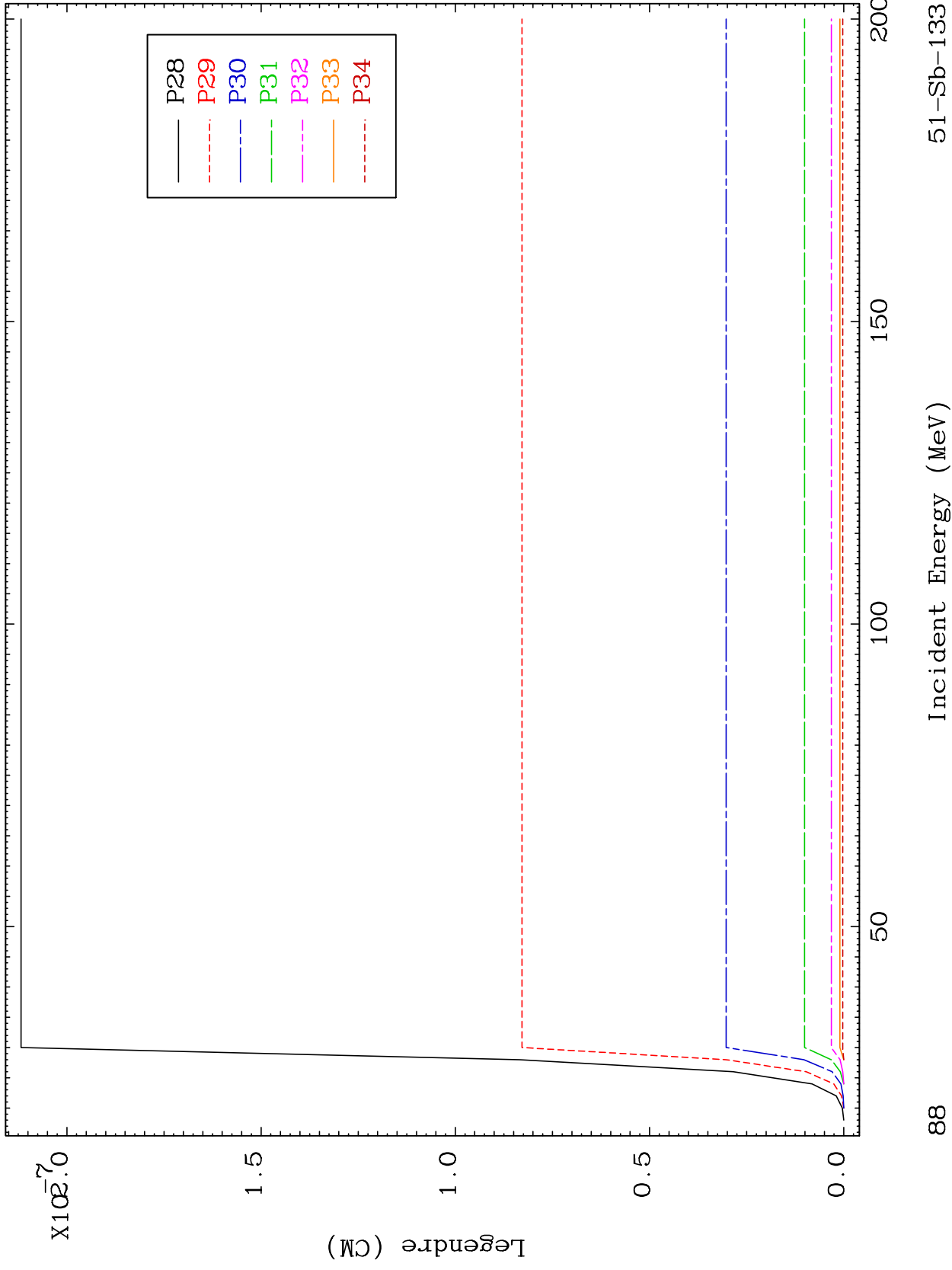




MAT 5161

4.359 MeV (n,n') Level  
Legendre Coefficients

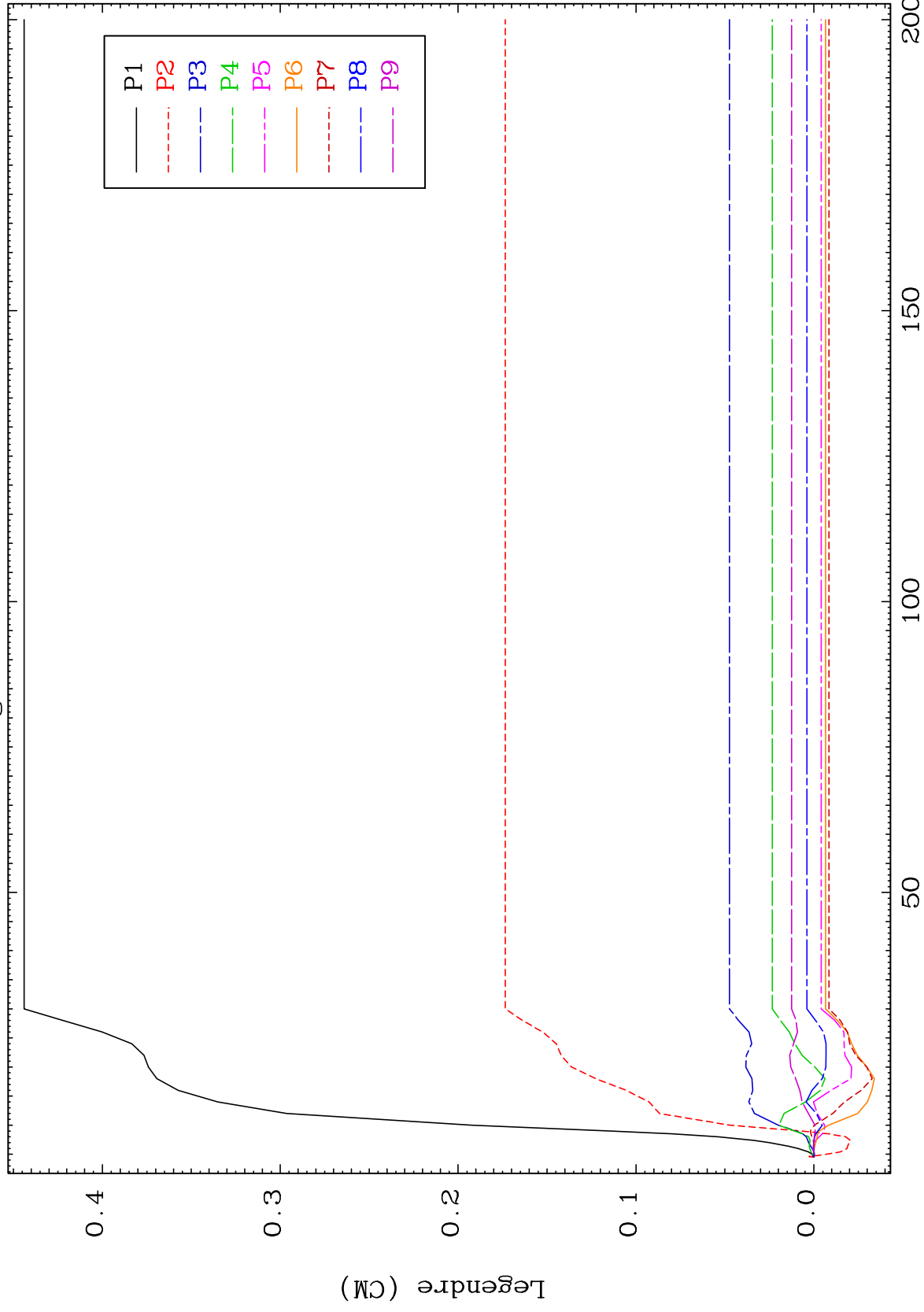
51-Sb-133



88

Incident Energy (MeV)

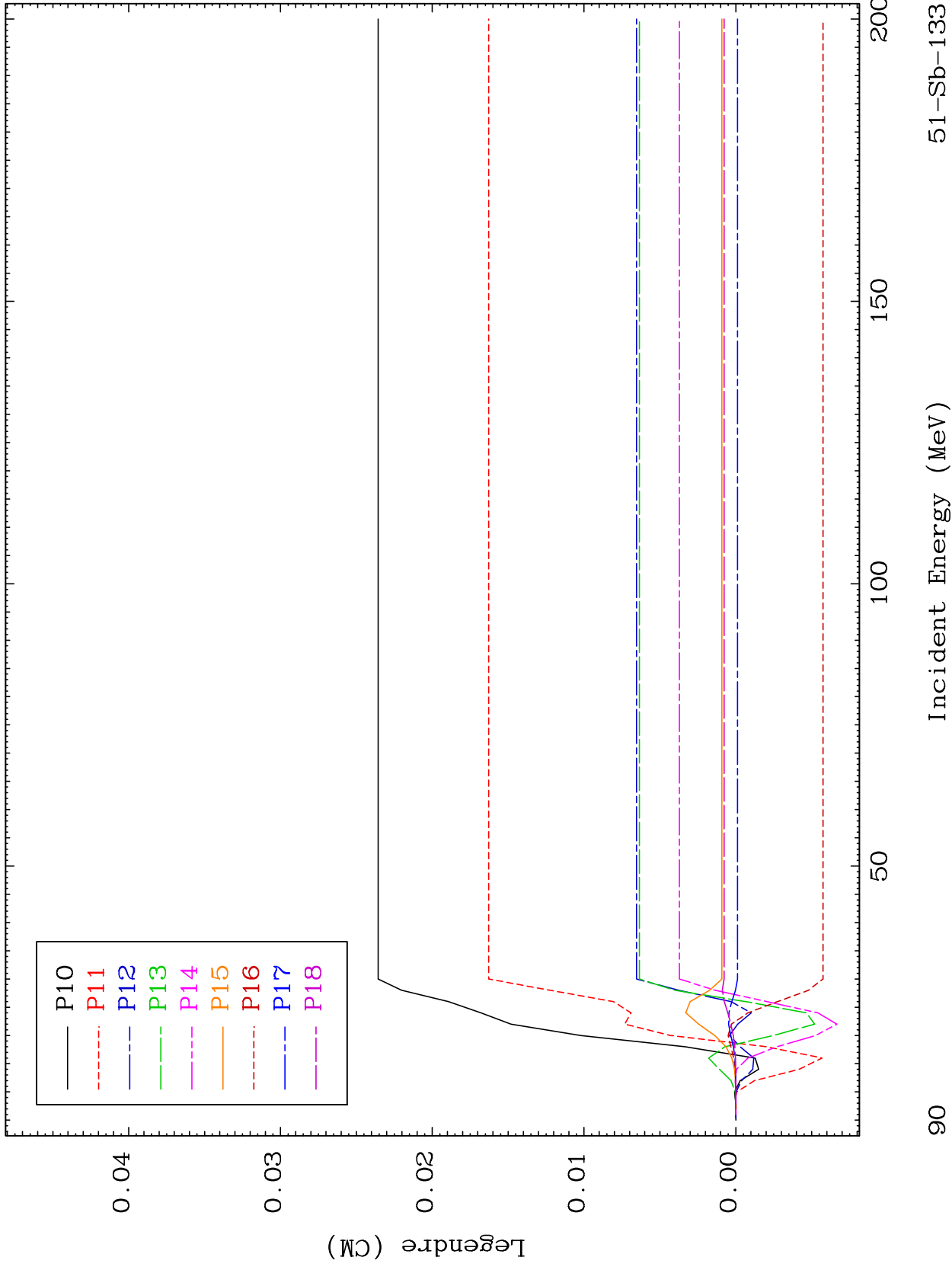
51-Sb-133



MAT 5161

4.464 MeV (n,n') Level  
Legendre Coefficients

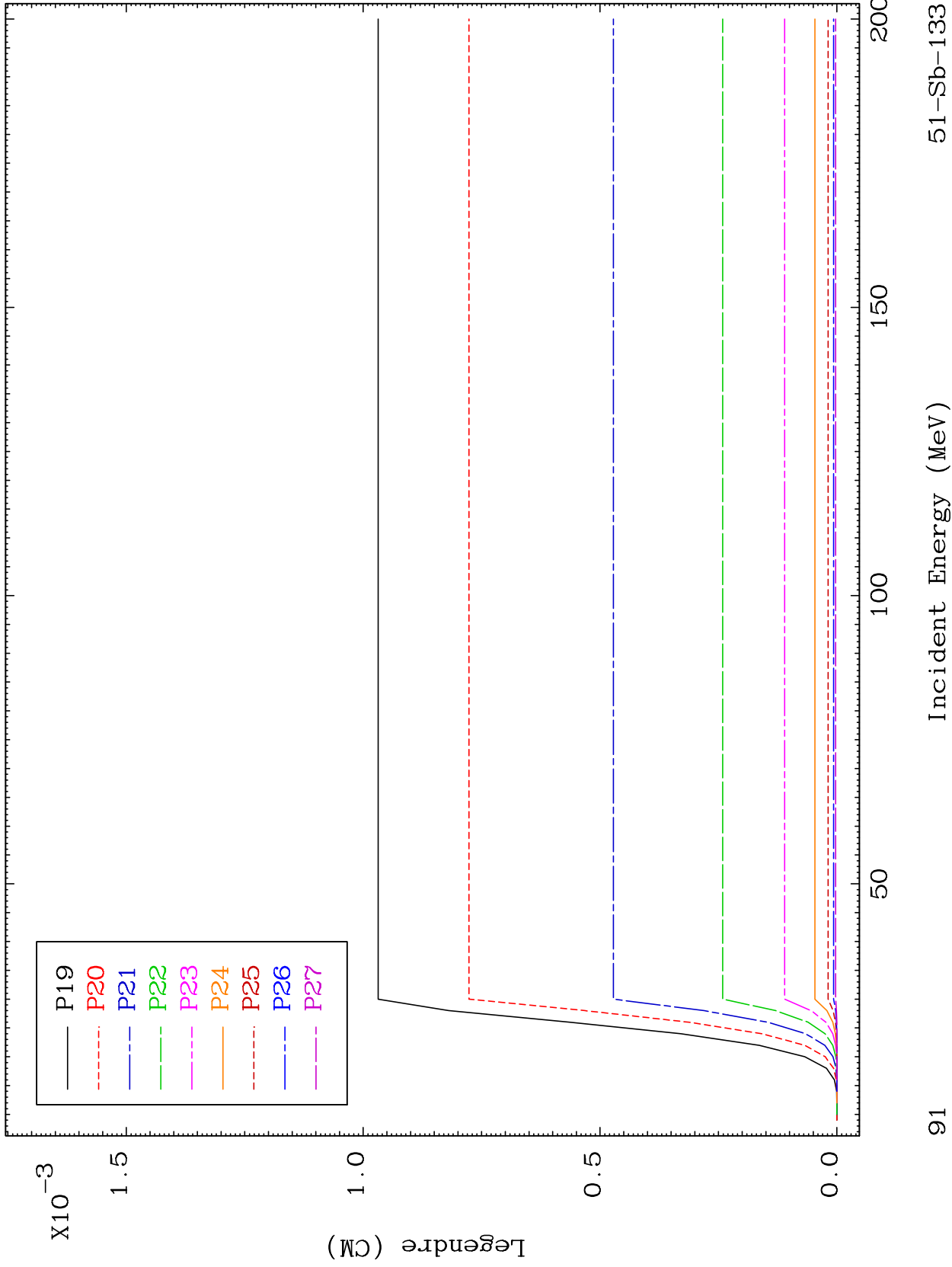
51-Sb-133



51-Sb-133

Incident Energy (MeV)

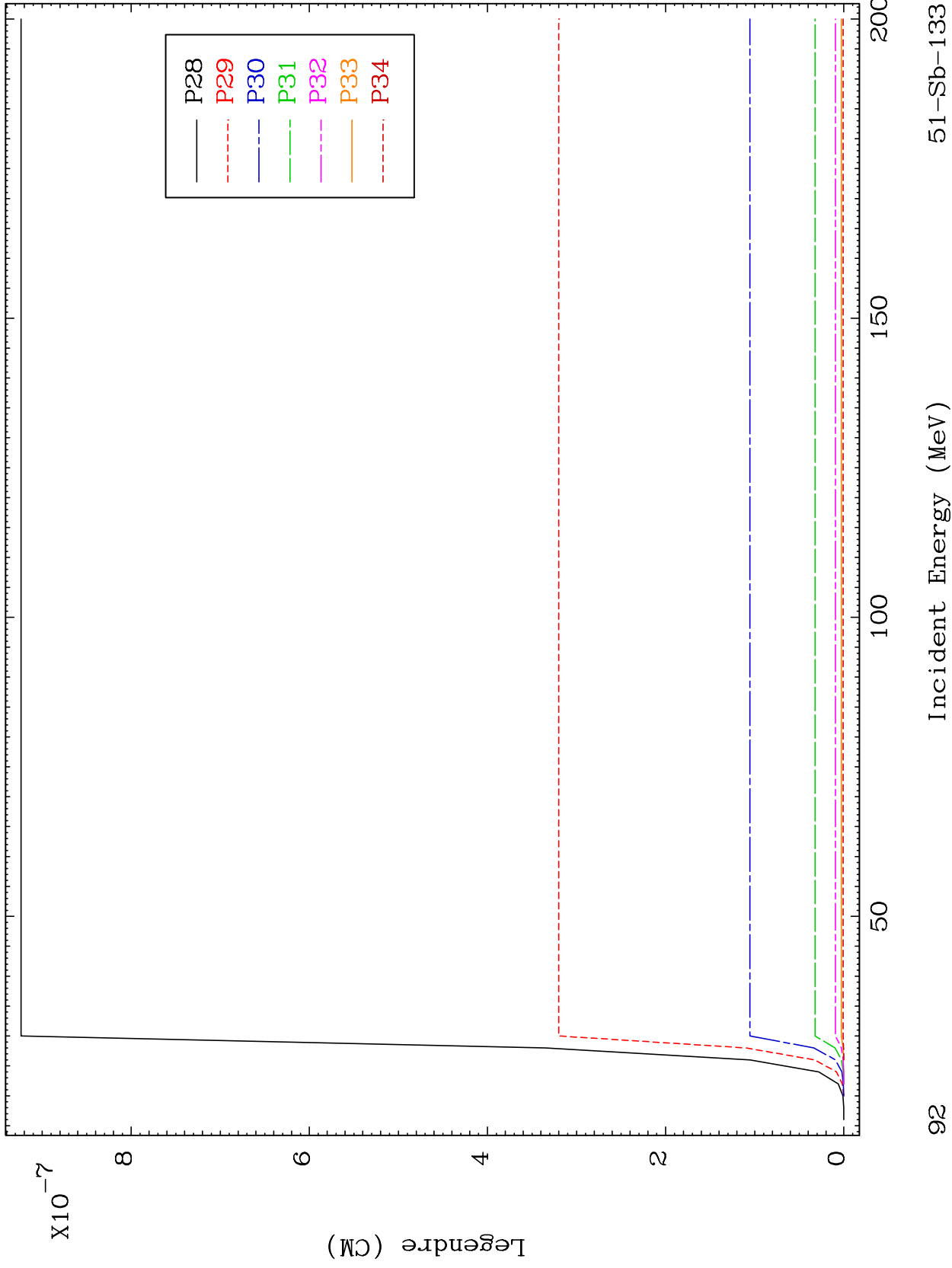
90



MAT 5161

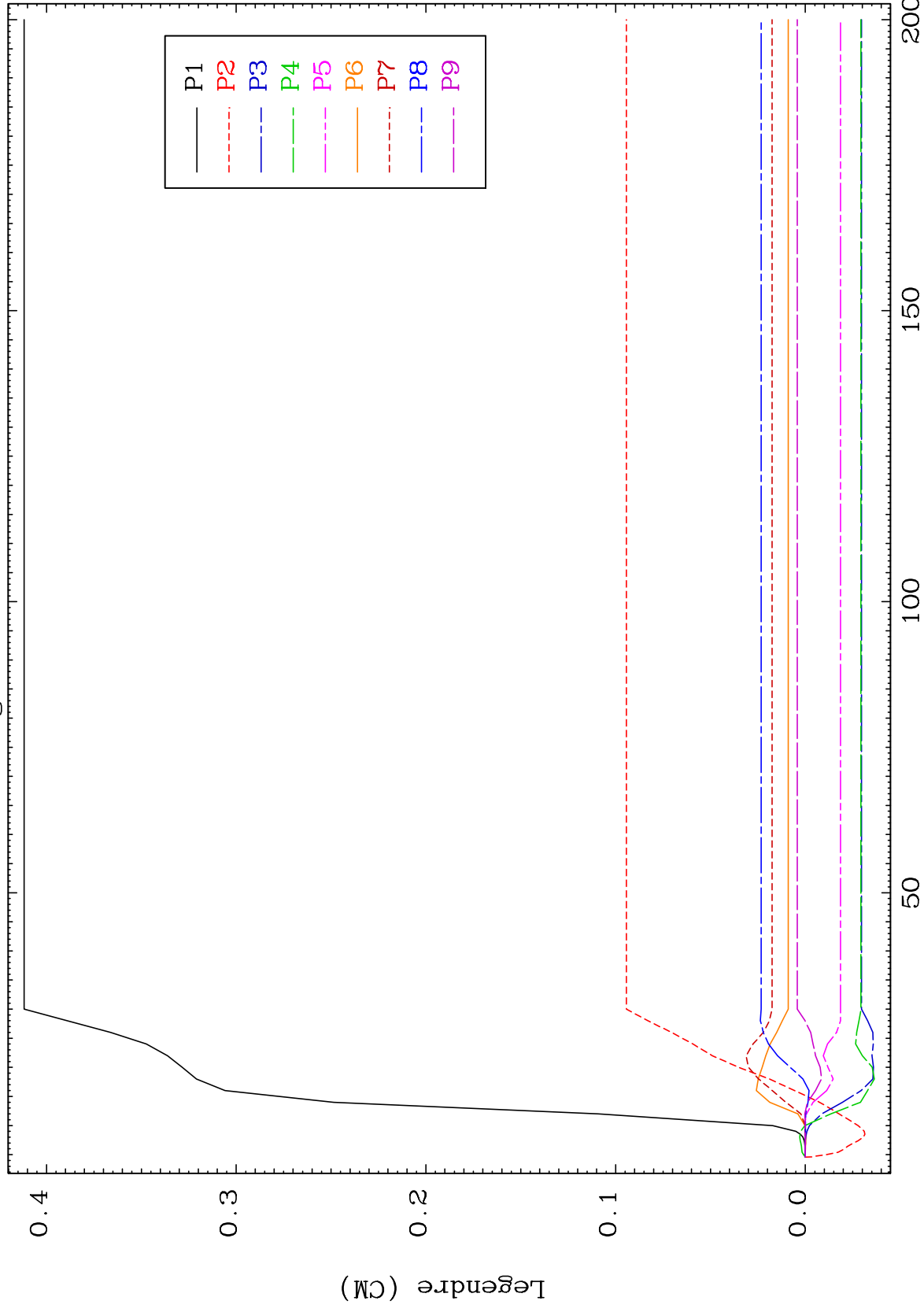
4.464 MeV (n,n') Level  
Legendre Coefficients

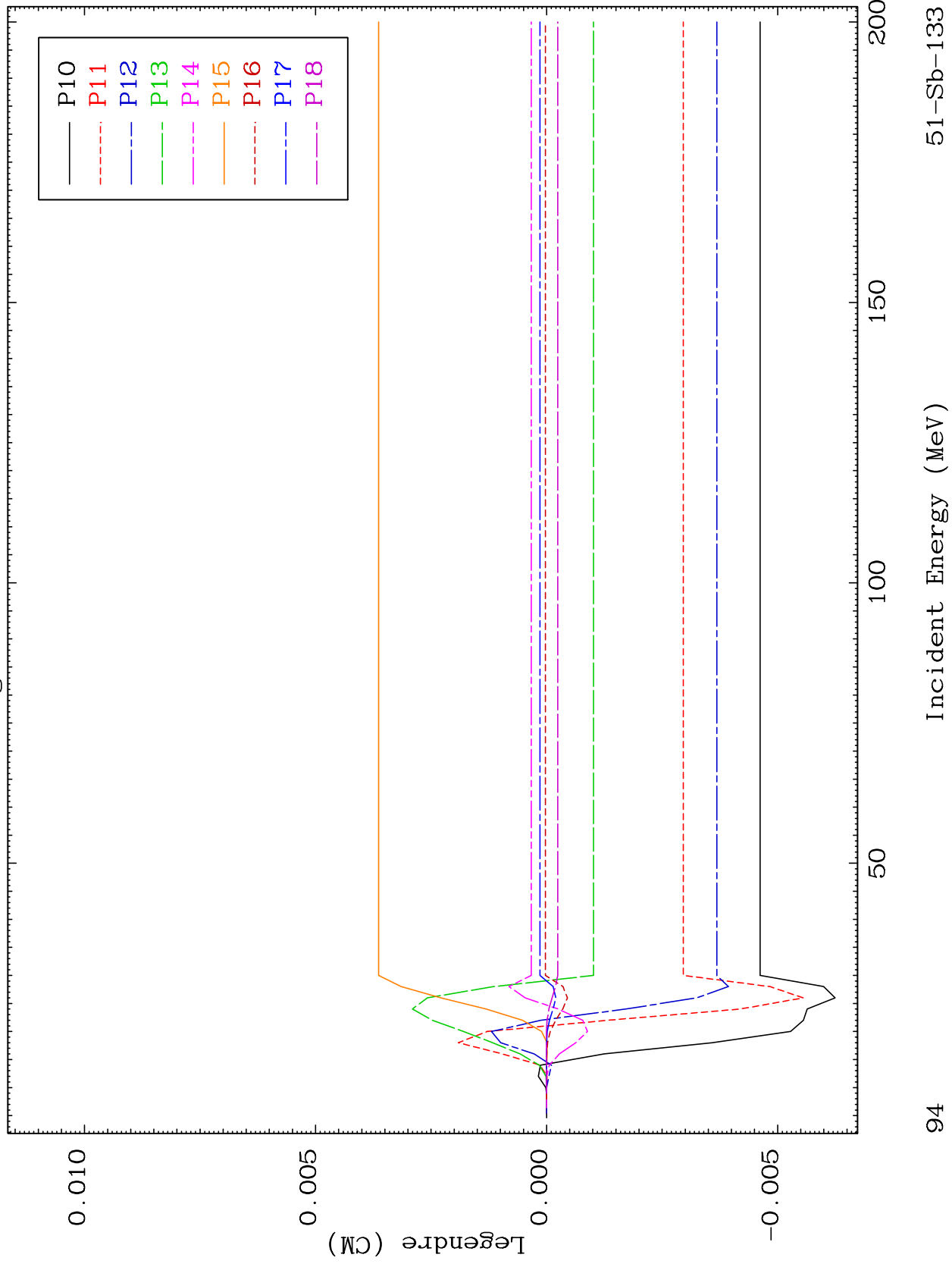
51-Sb-133

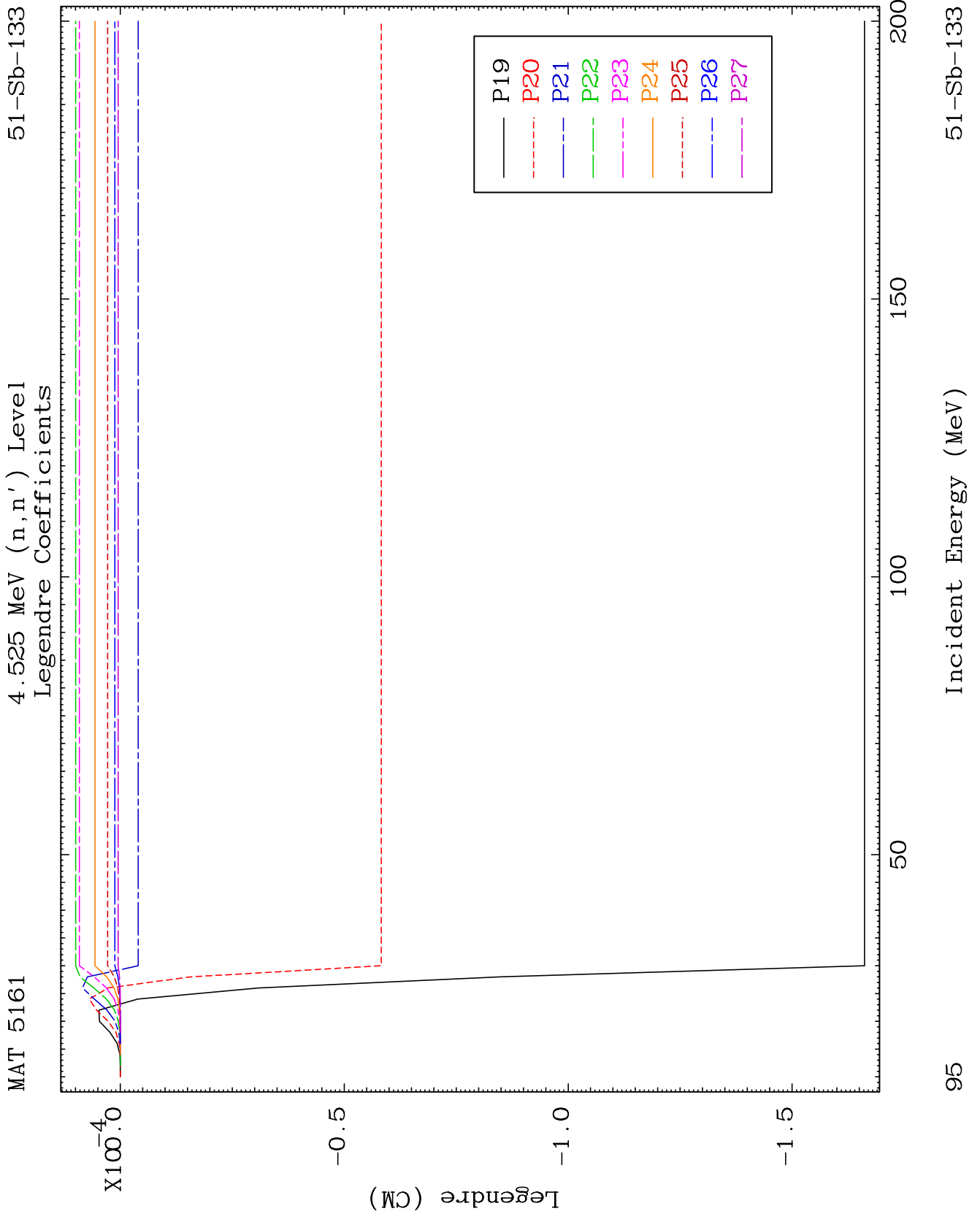


92

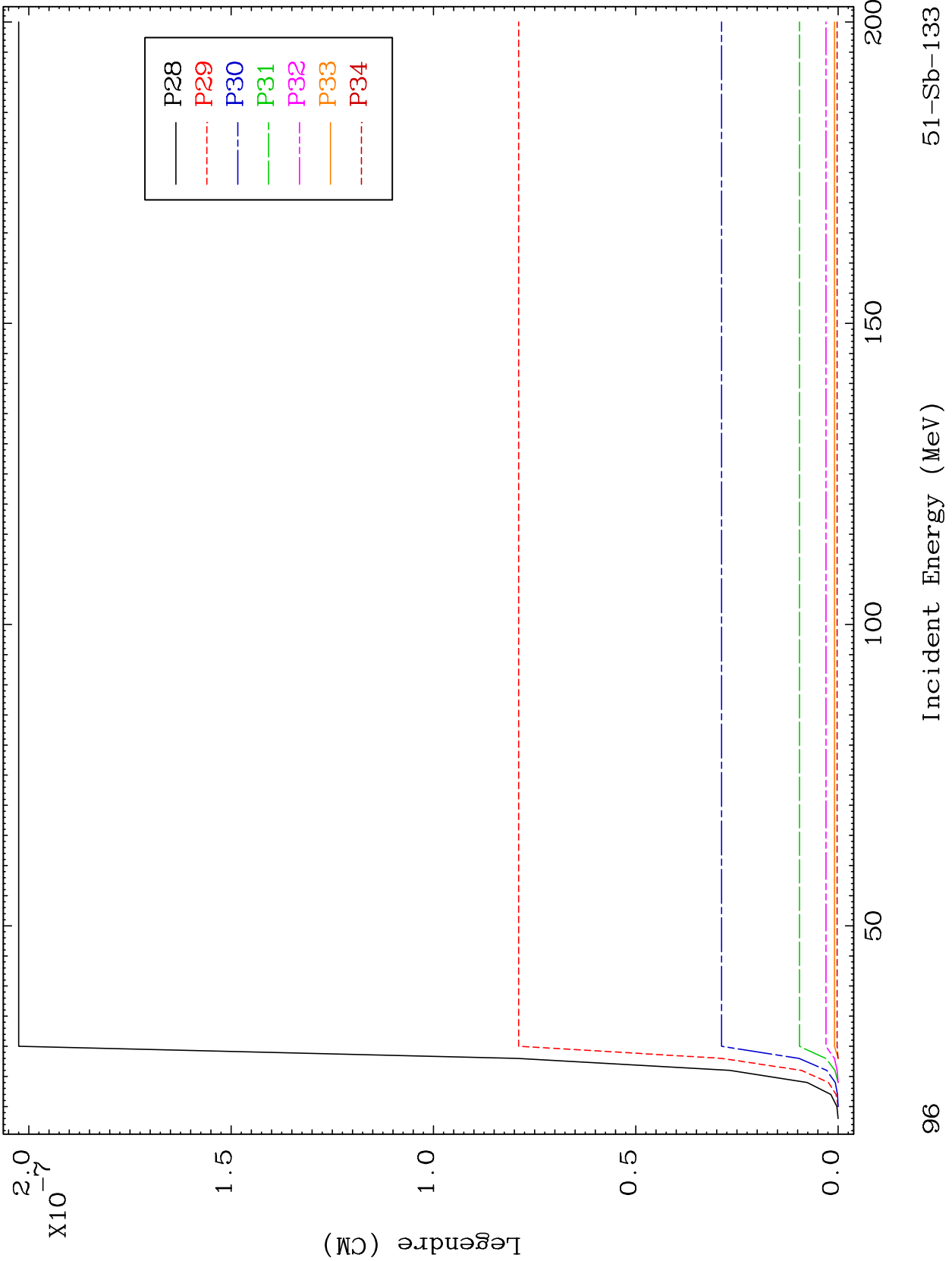
51-Sb-133

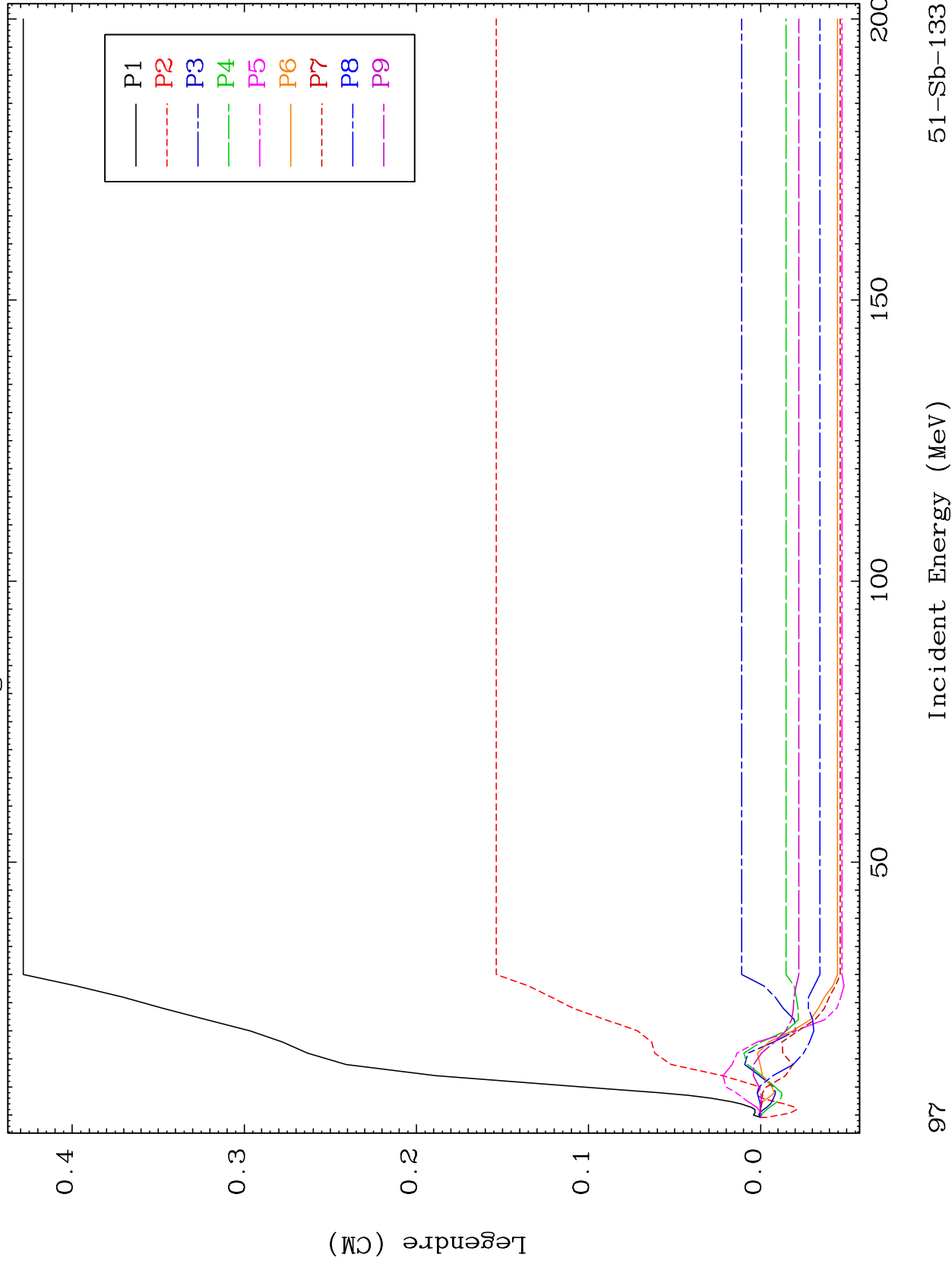


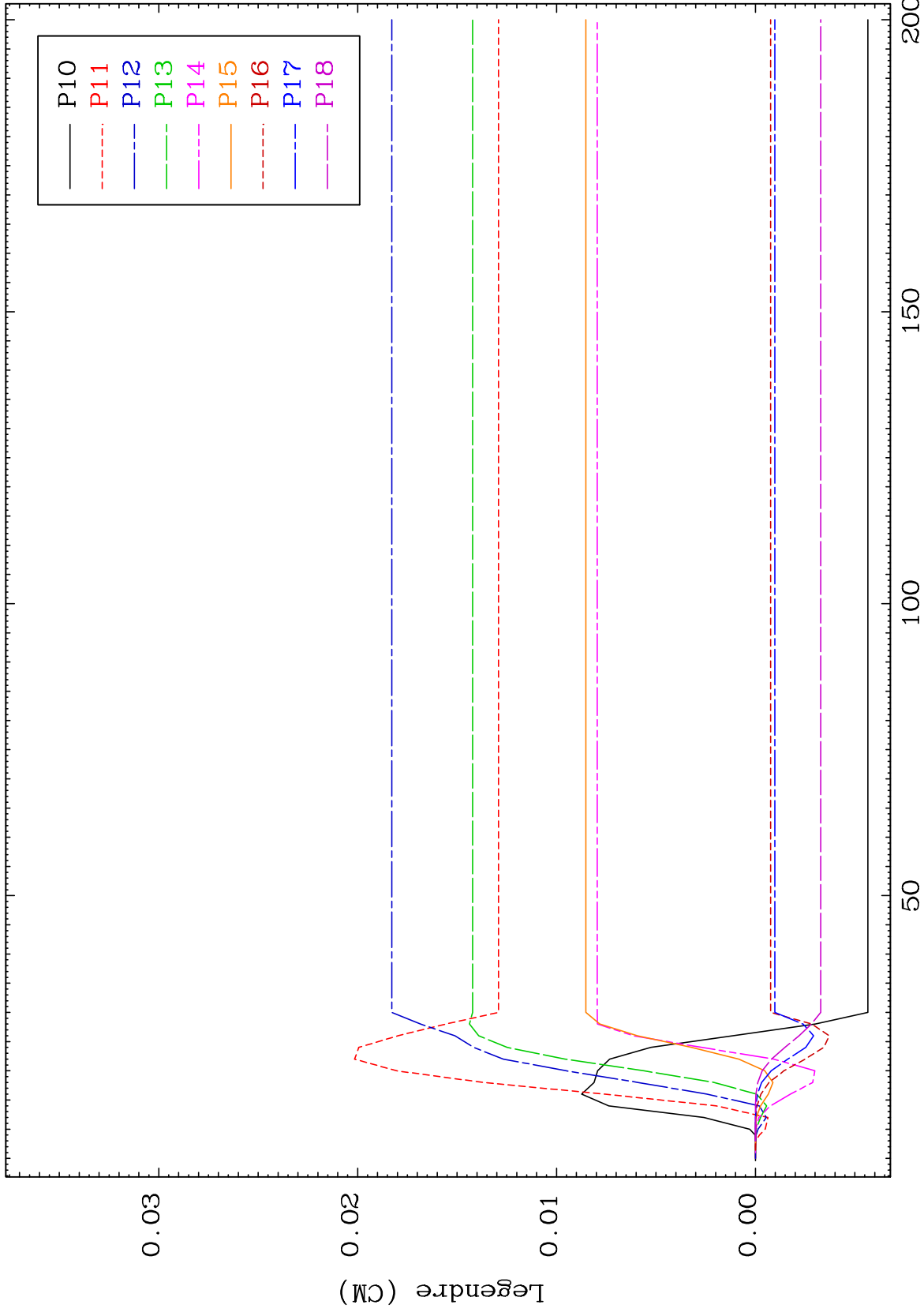


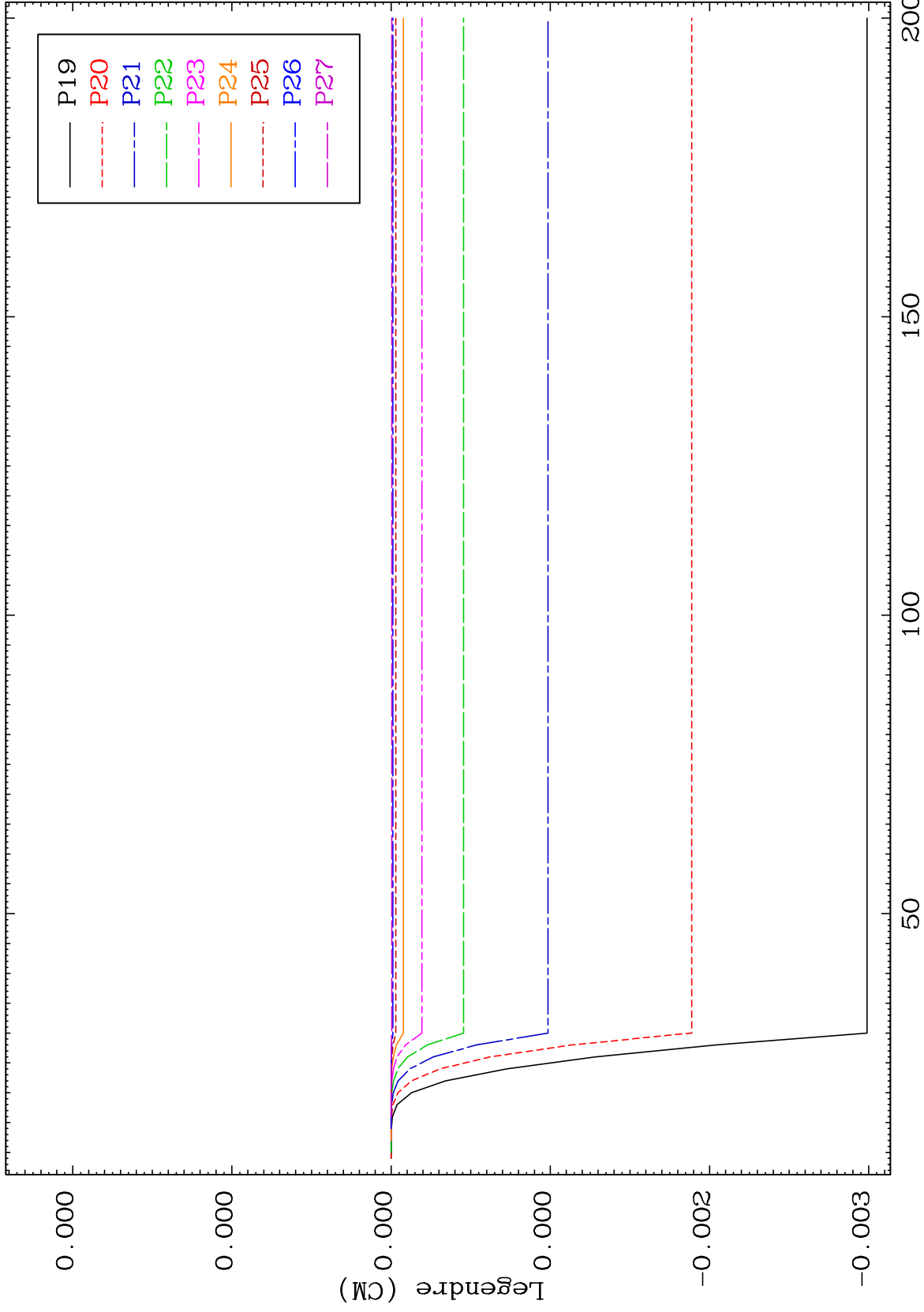


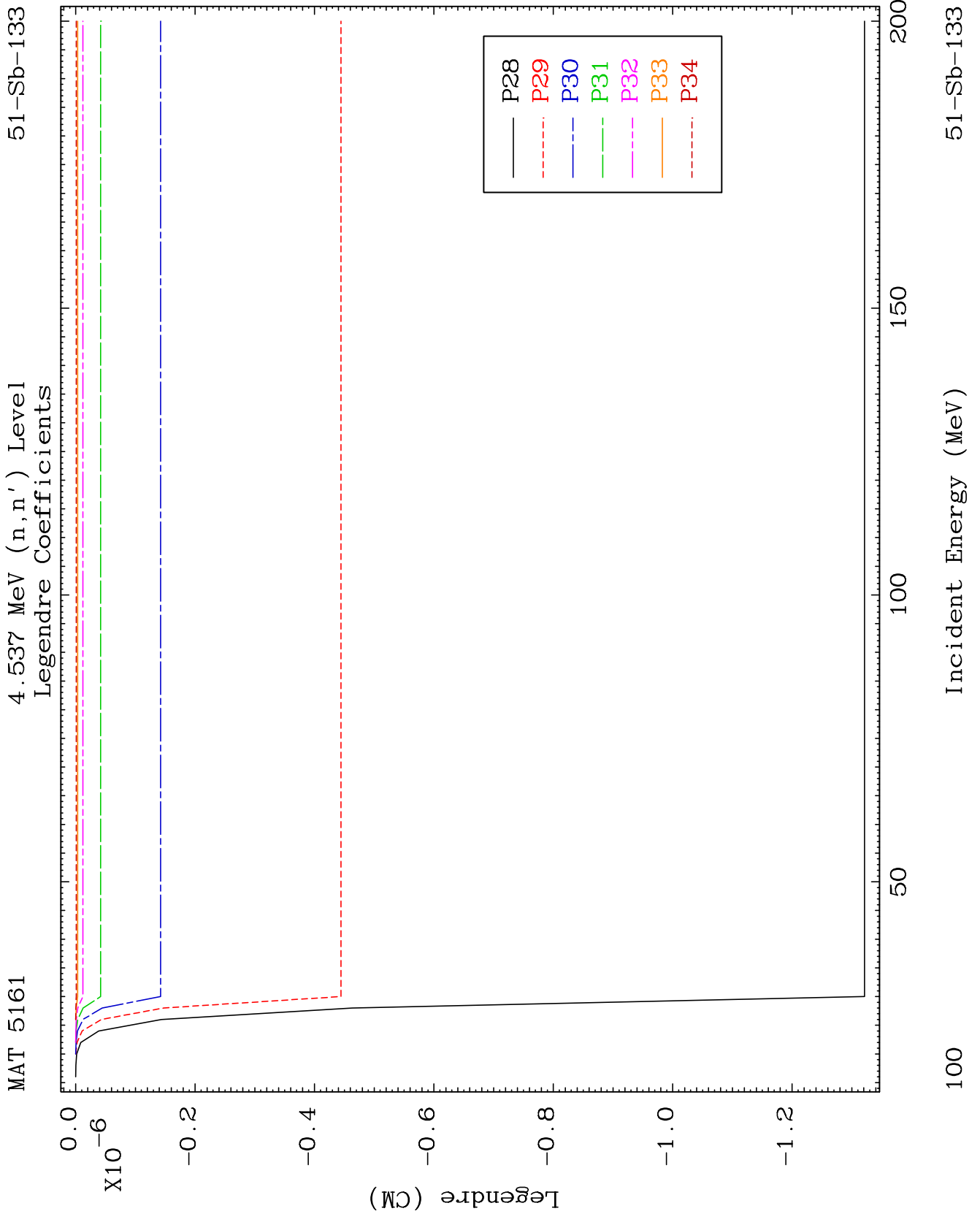


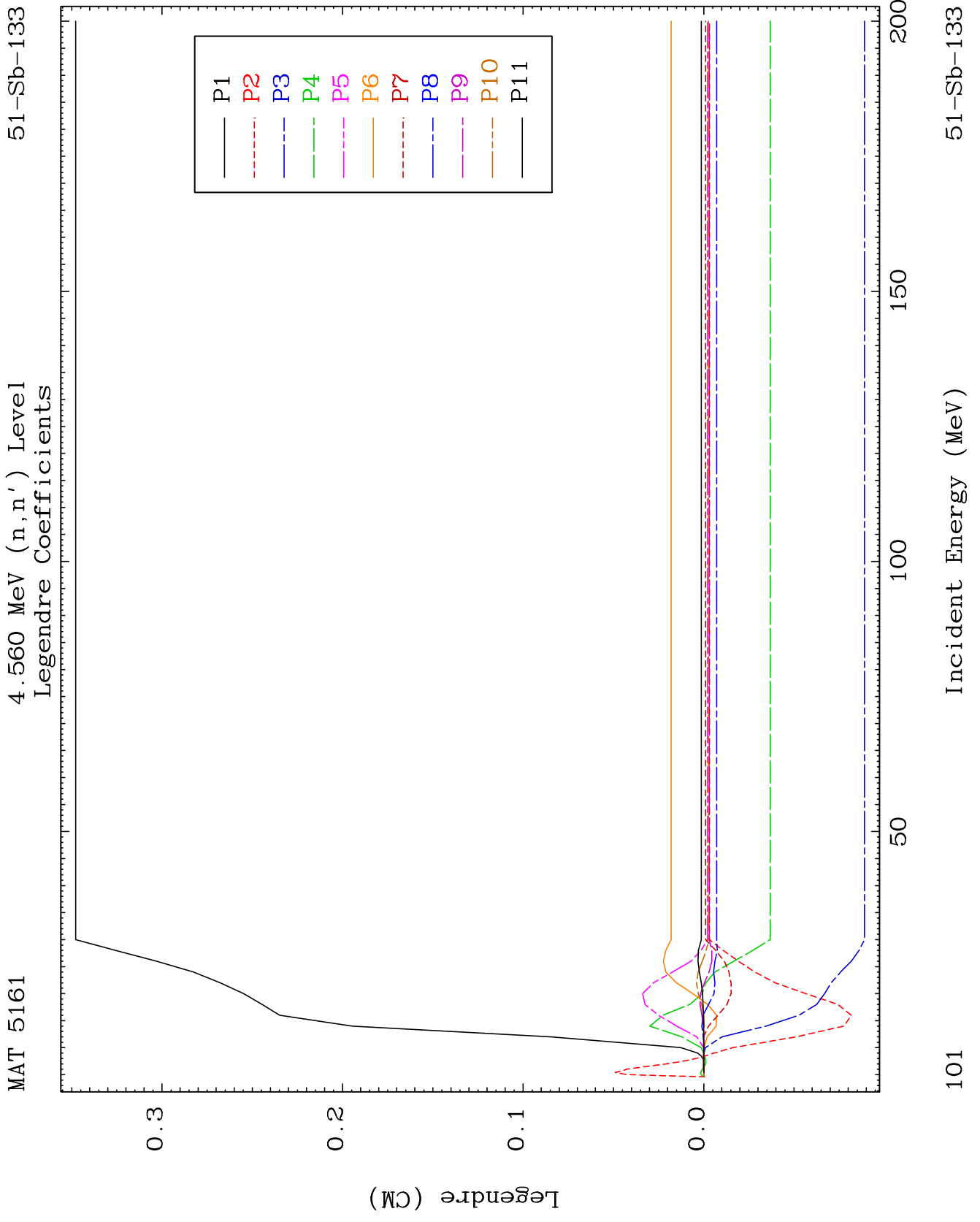


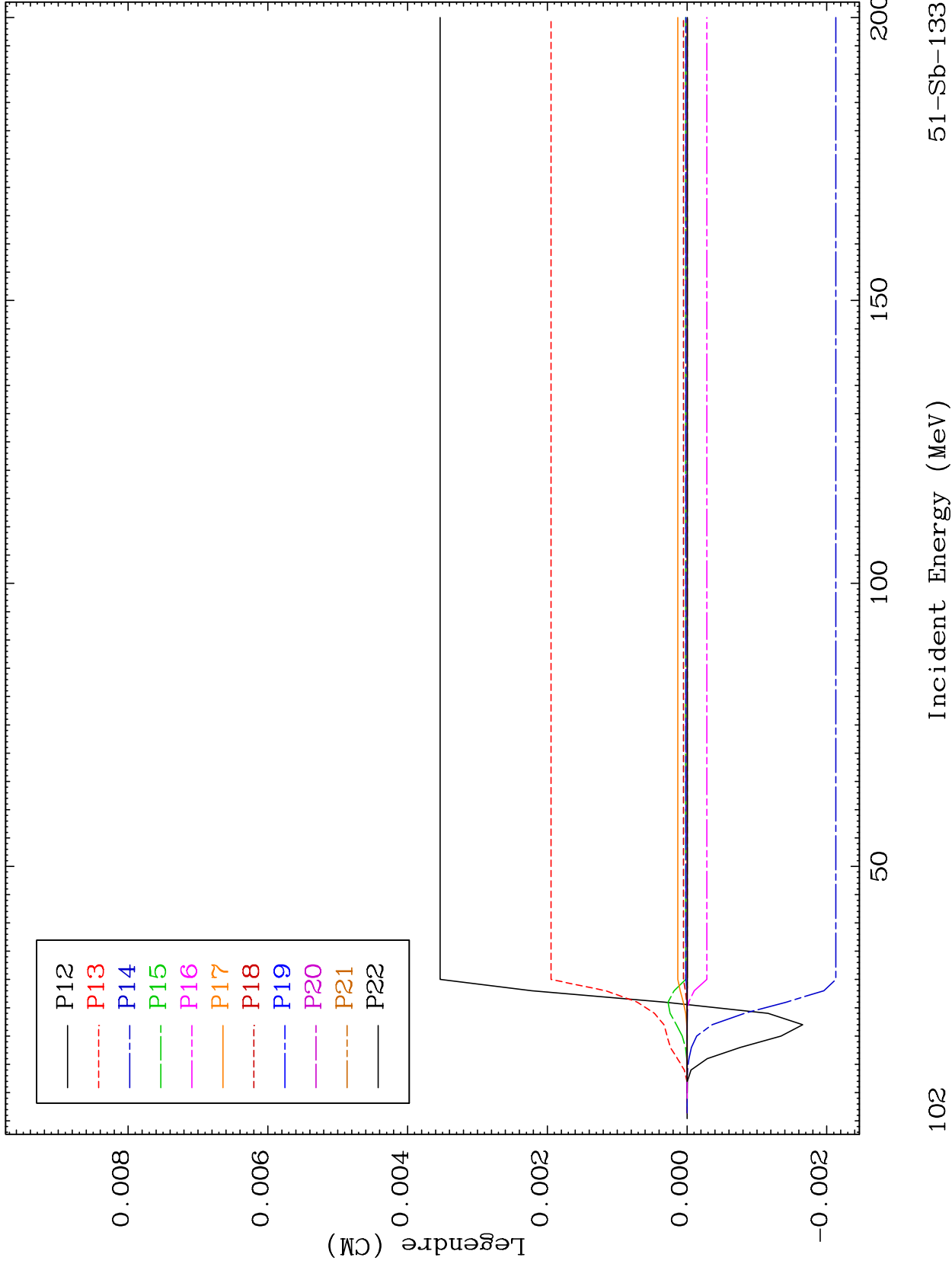


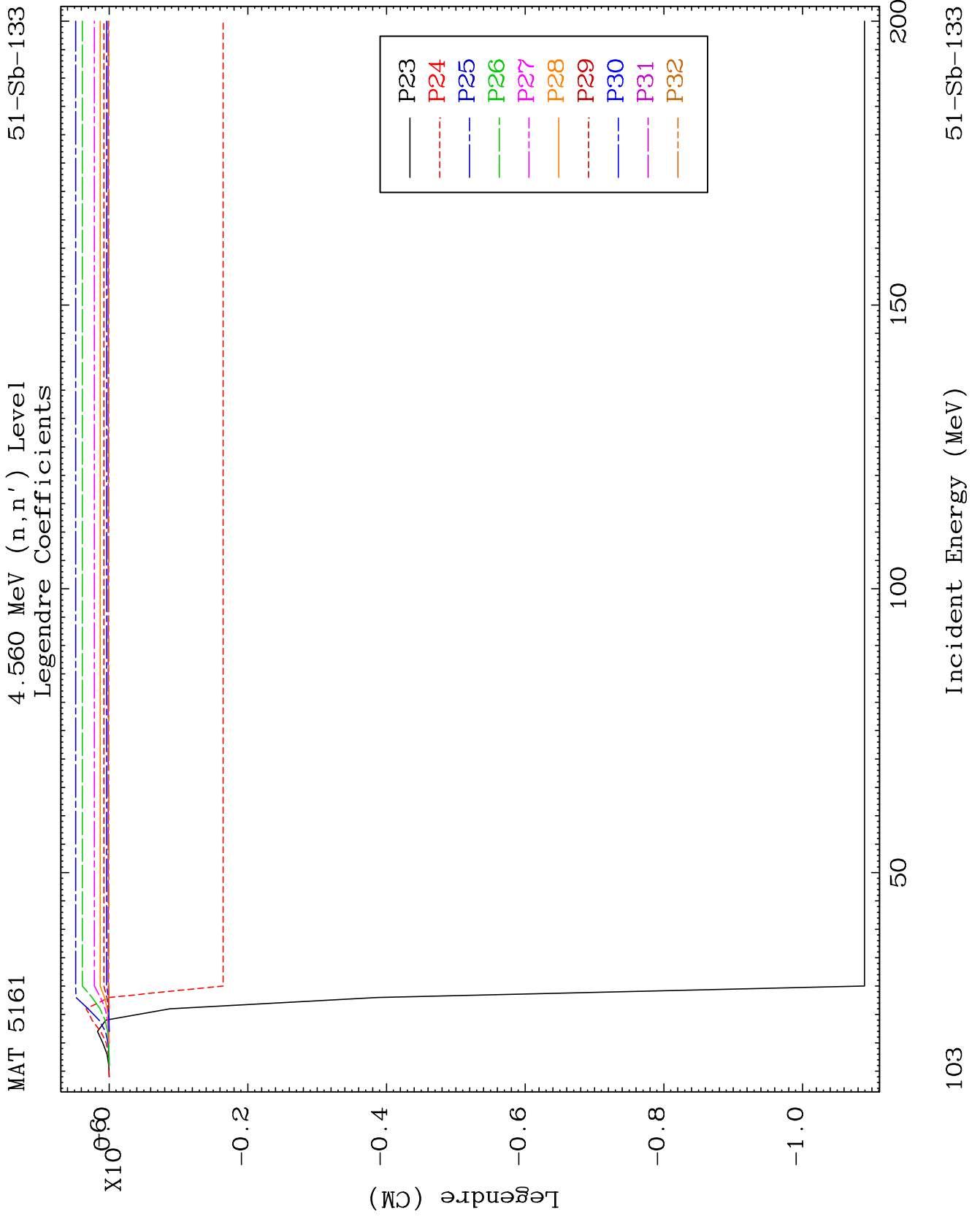




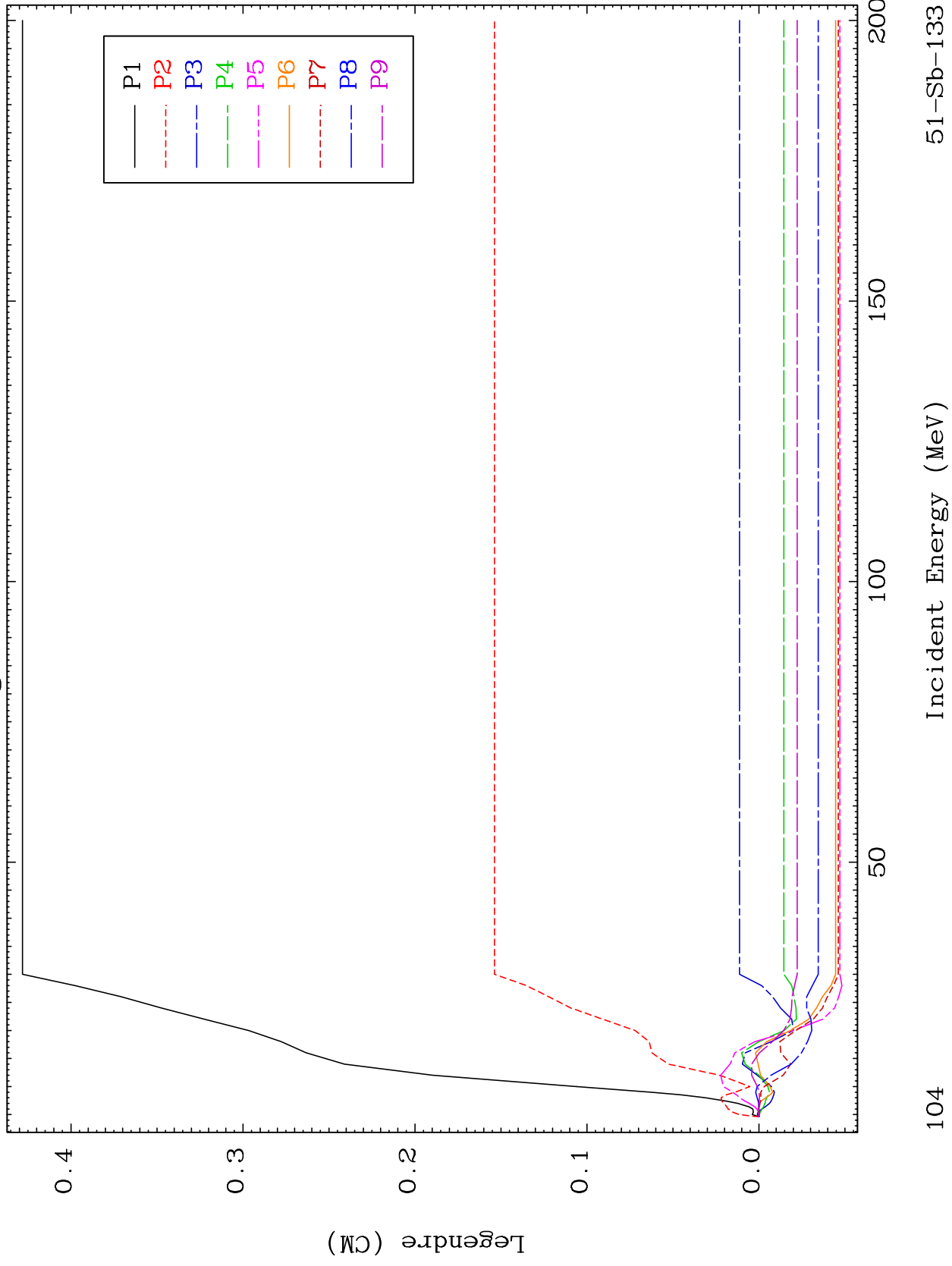








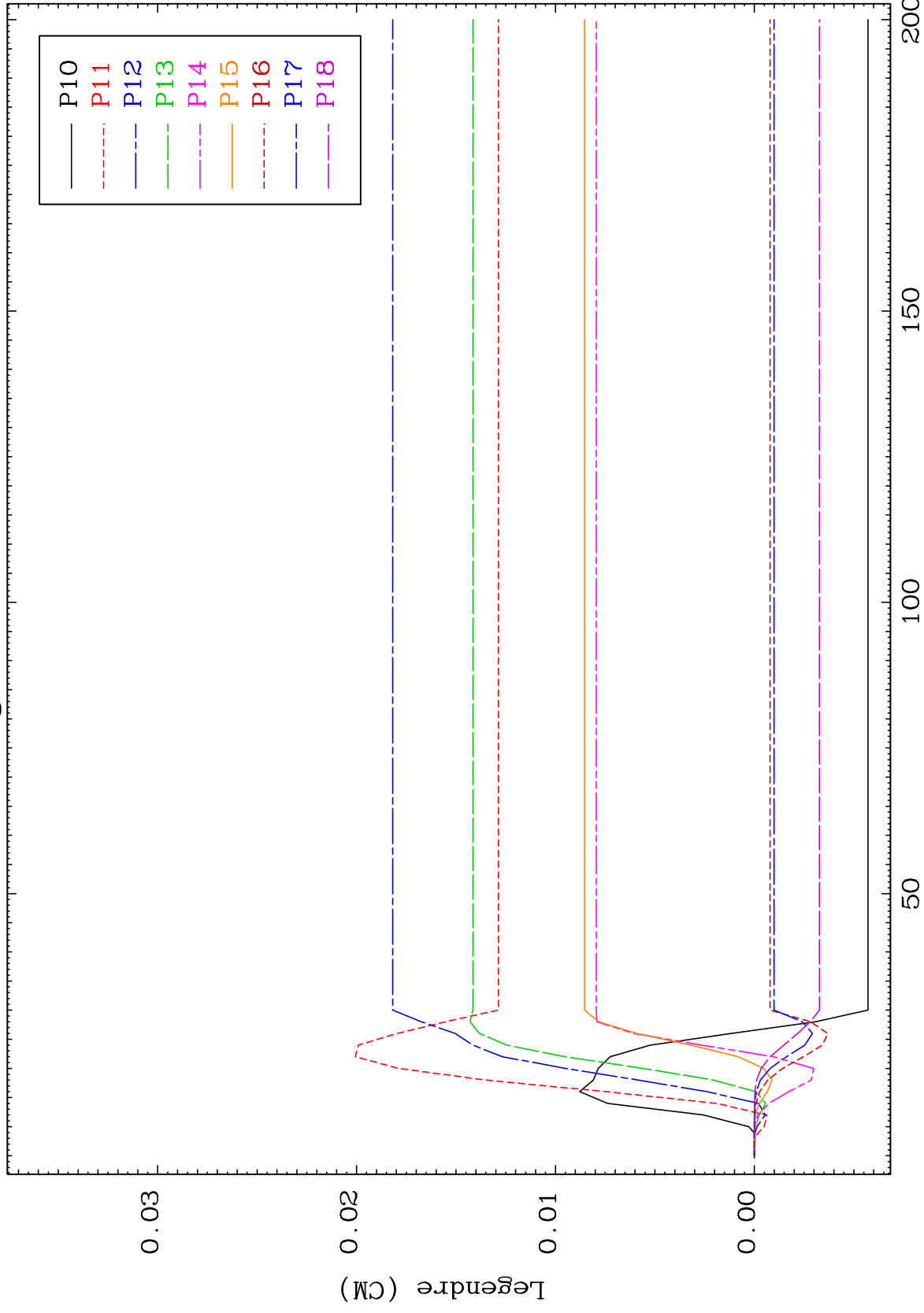




MAT 5161

4.573 MeV (n,n') Level  
Legendre Coefficients

51-Sb-133



105

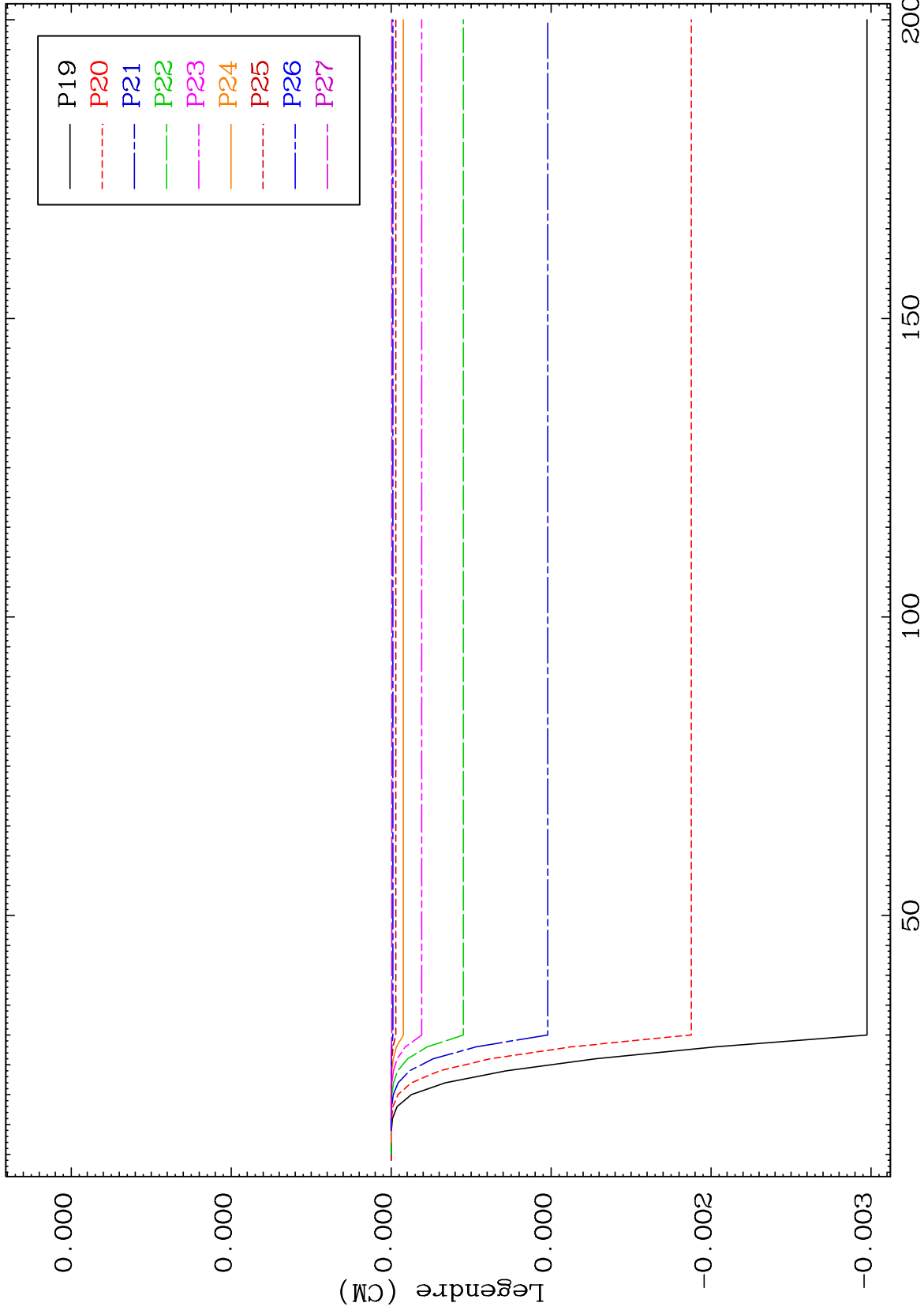
Incident Energy (MeV)

51-Sb-133

MAT 5161

4.573 MeV (n,n') Level  
Legendre Coefficients

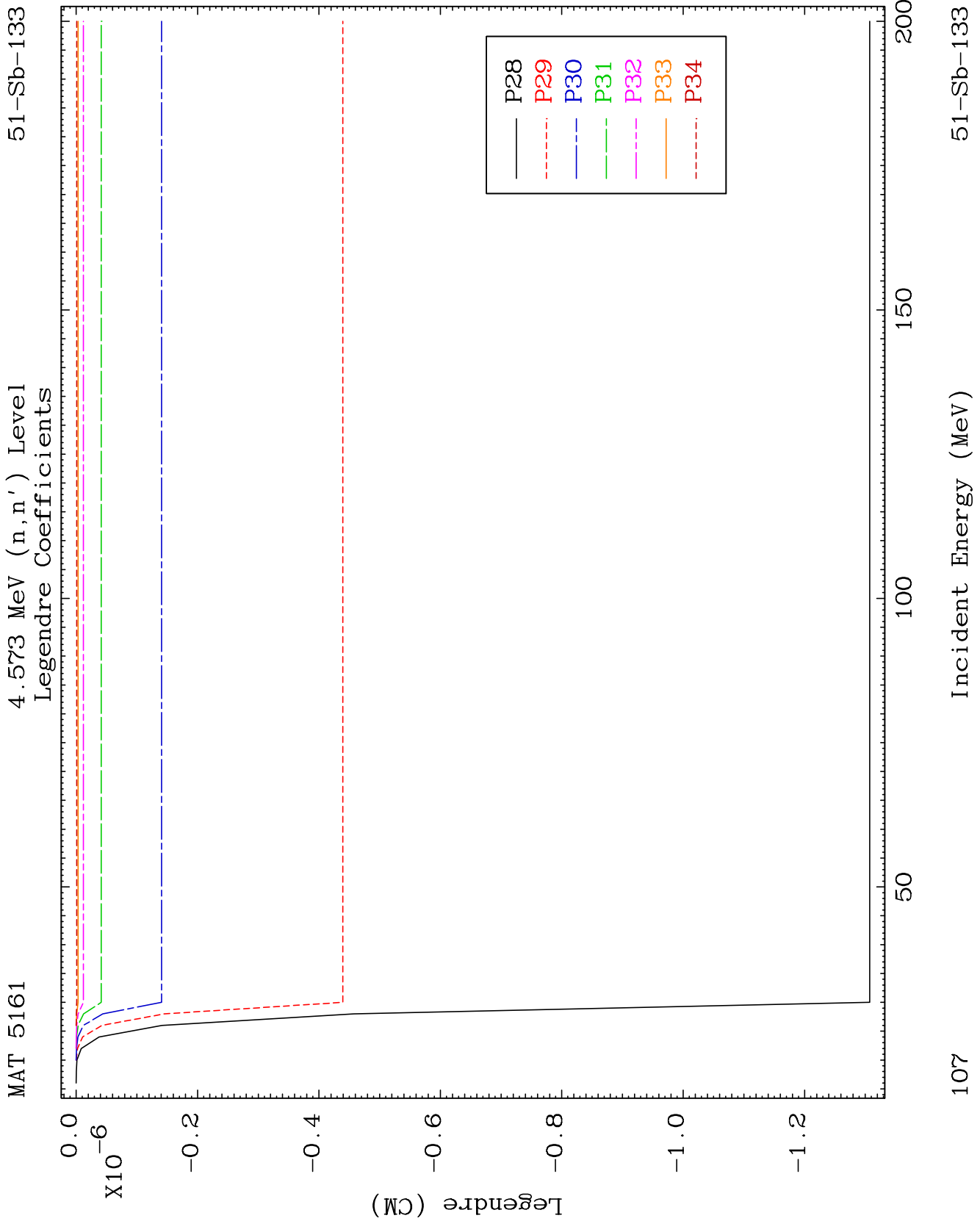
51-Sb-133



106

Incident Energy (MeV)

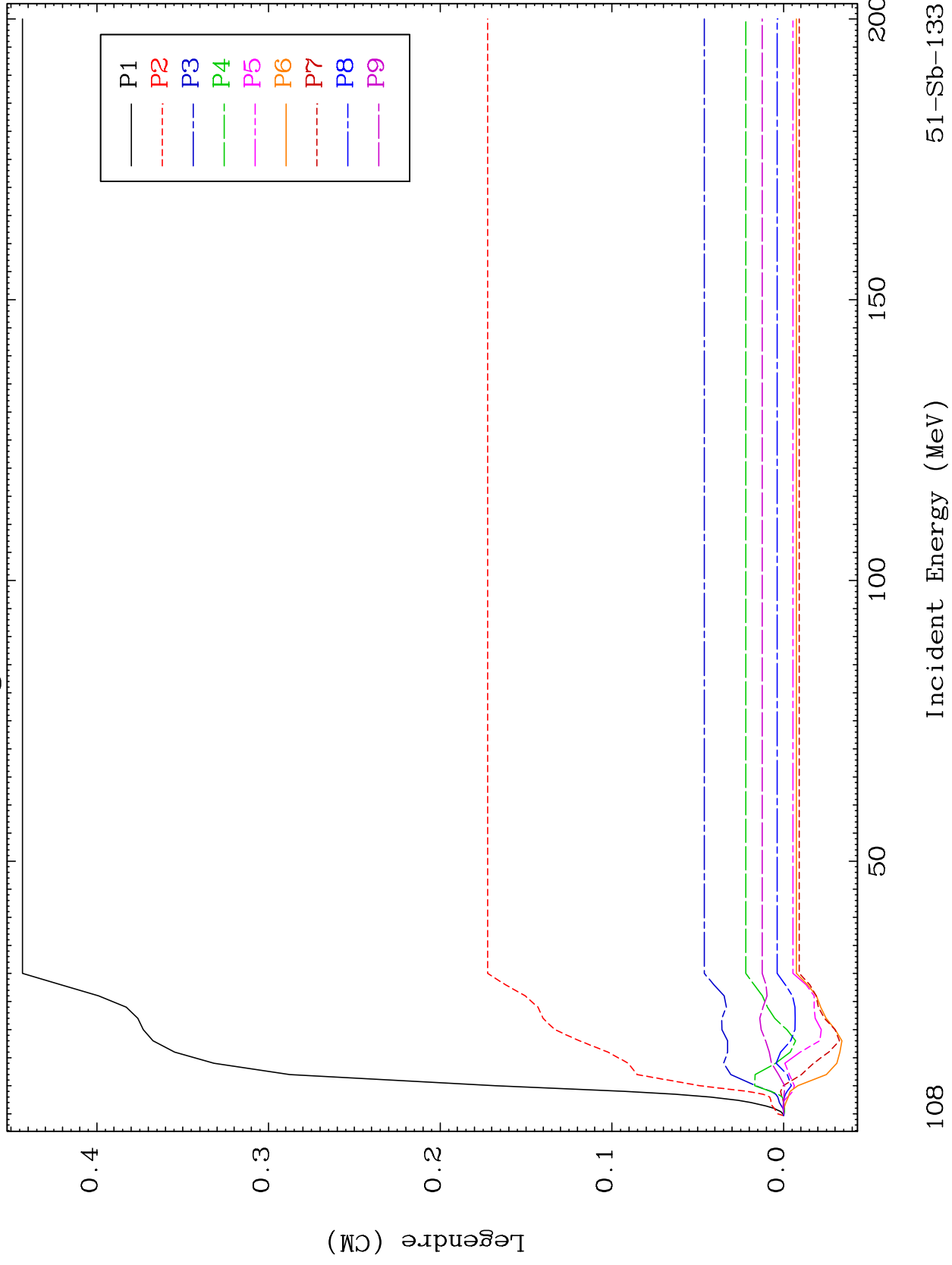
51-Sb-133



MAT 5161

4.625 MeV (n,n') Level  
Legendre Coefficients

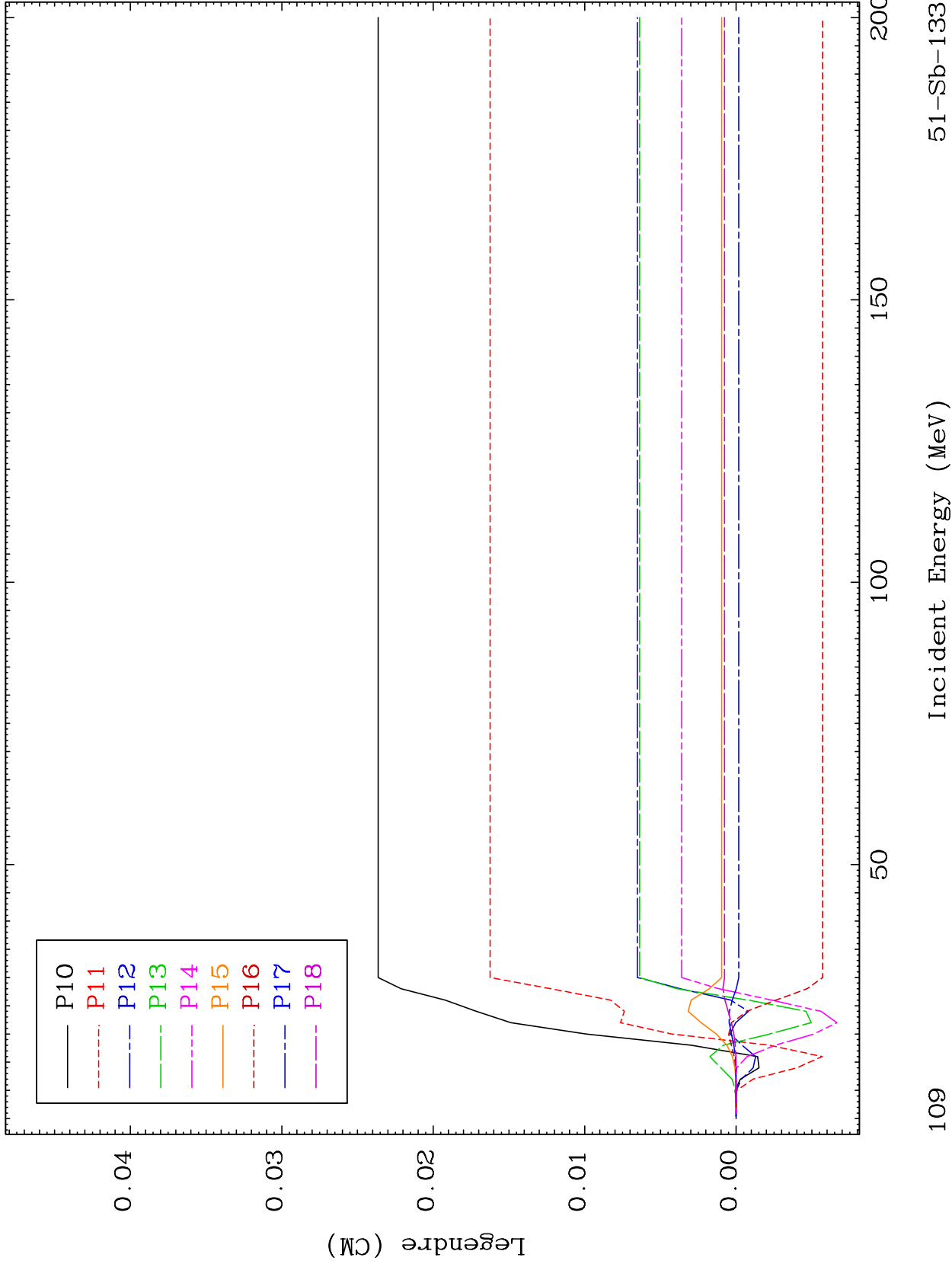
51-Sb-133



51-Sb-133

Incident Energy (MeV)

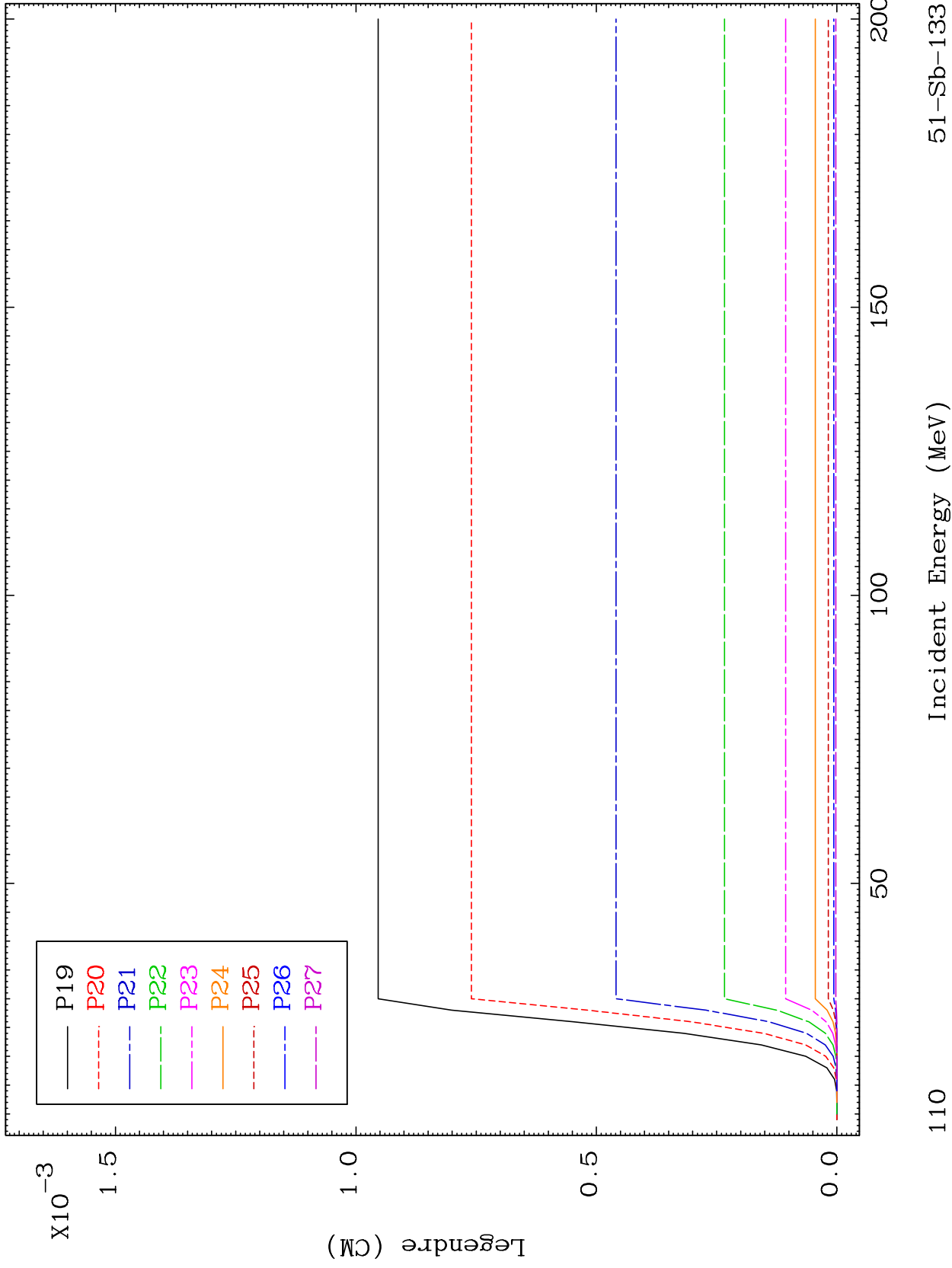
108



MAT 5161

4.625 MeV (n,n') Level  
Legendre Coefficients

51-Sb-133



51-Sb-133

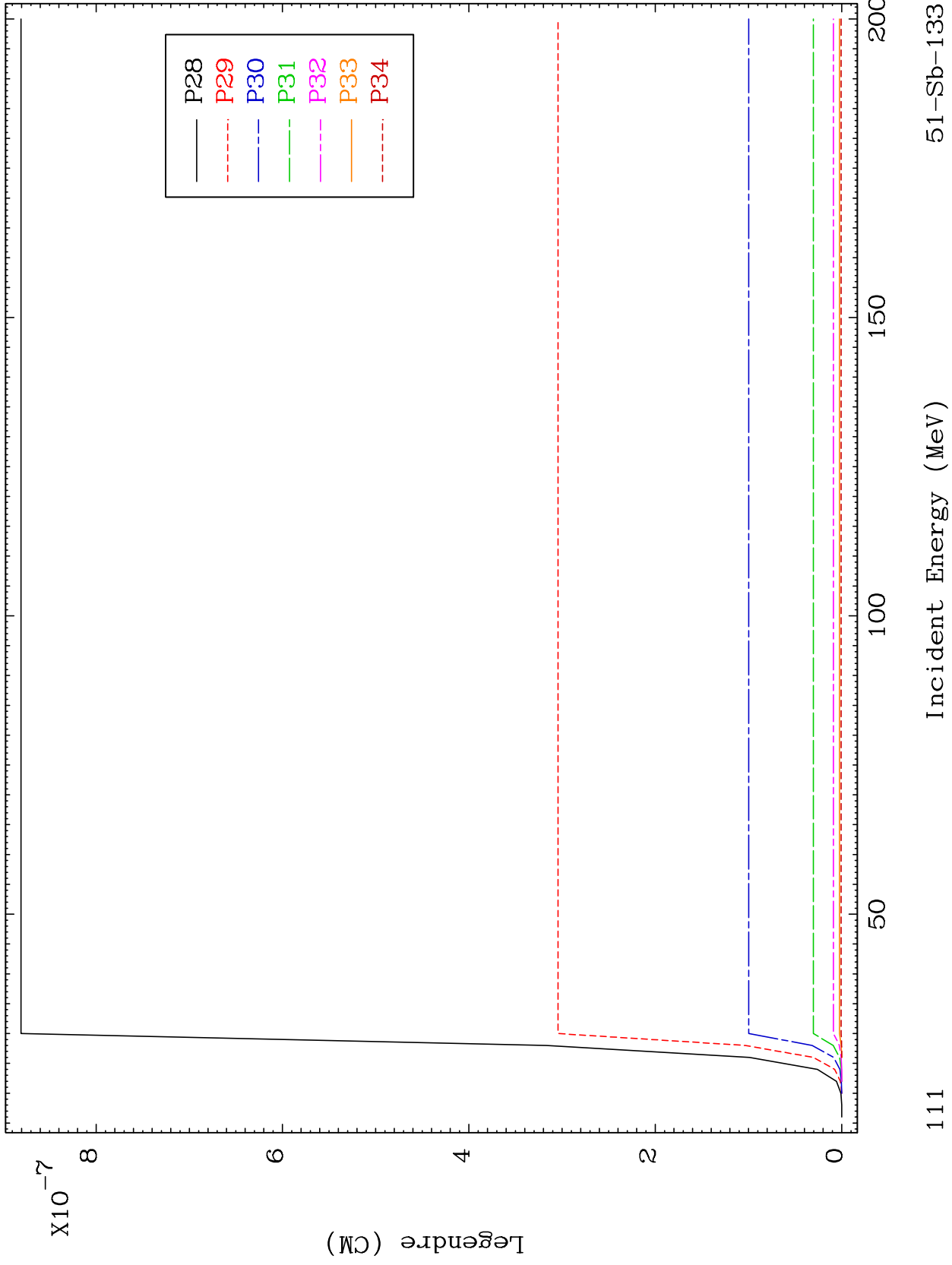
Incident Energy (MeV)

110

MAT 5161

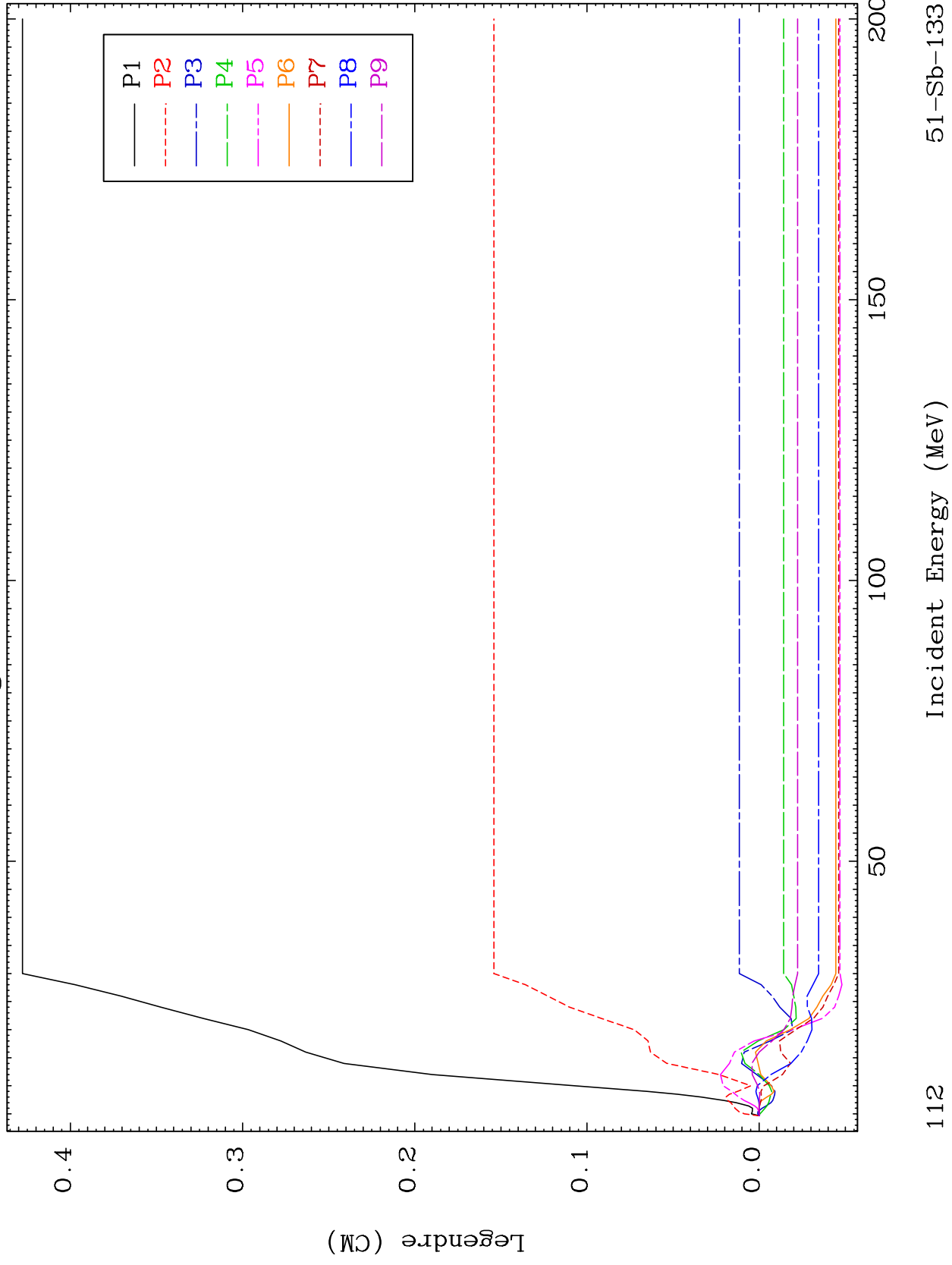
4.625 MeV (n,n') Level  
Legendre Coefficients

51-Sb-133



111

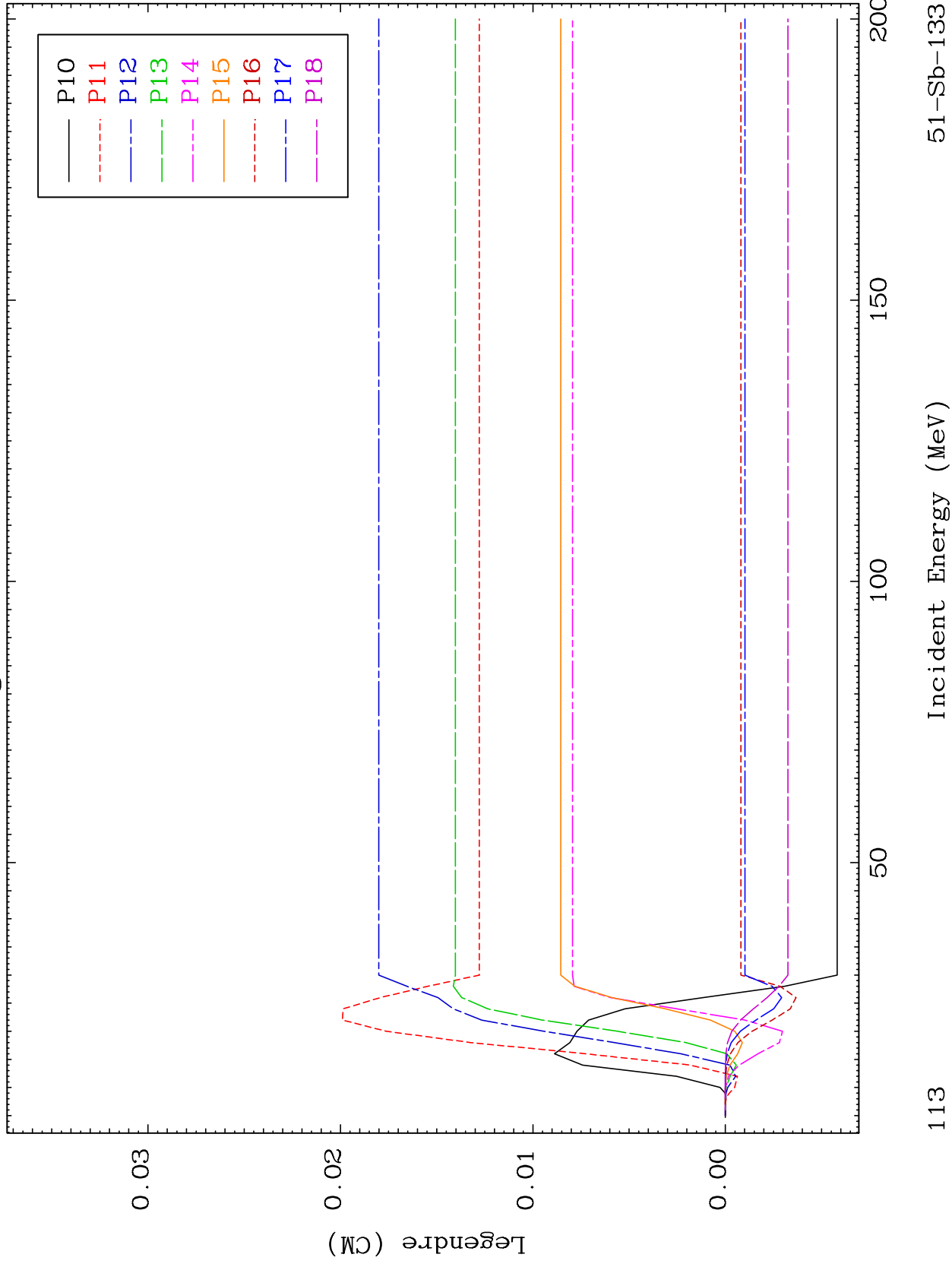




MAT 5161

4.635 MeV (n,n') Level  
Legendre Coefficients

51-Sb-133



113

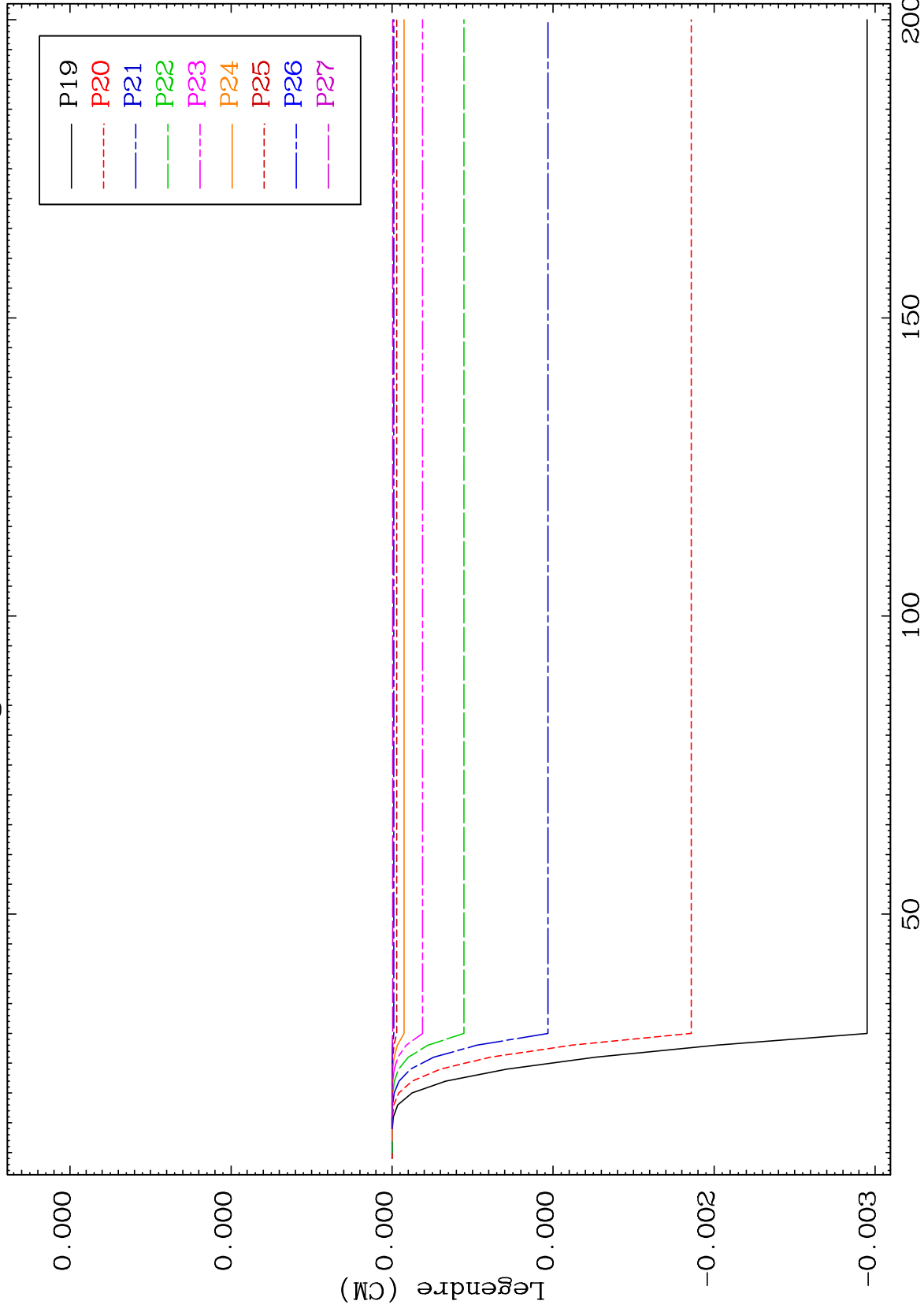
Incident Energy (MeV)

51-Sb-133

MAT 5161

4.635 MeV (n,n') Level  
Legendre Coefficients

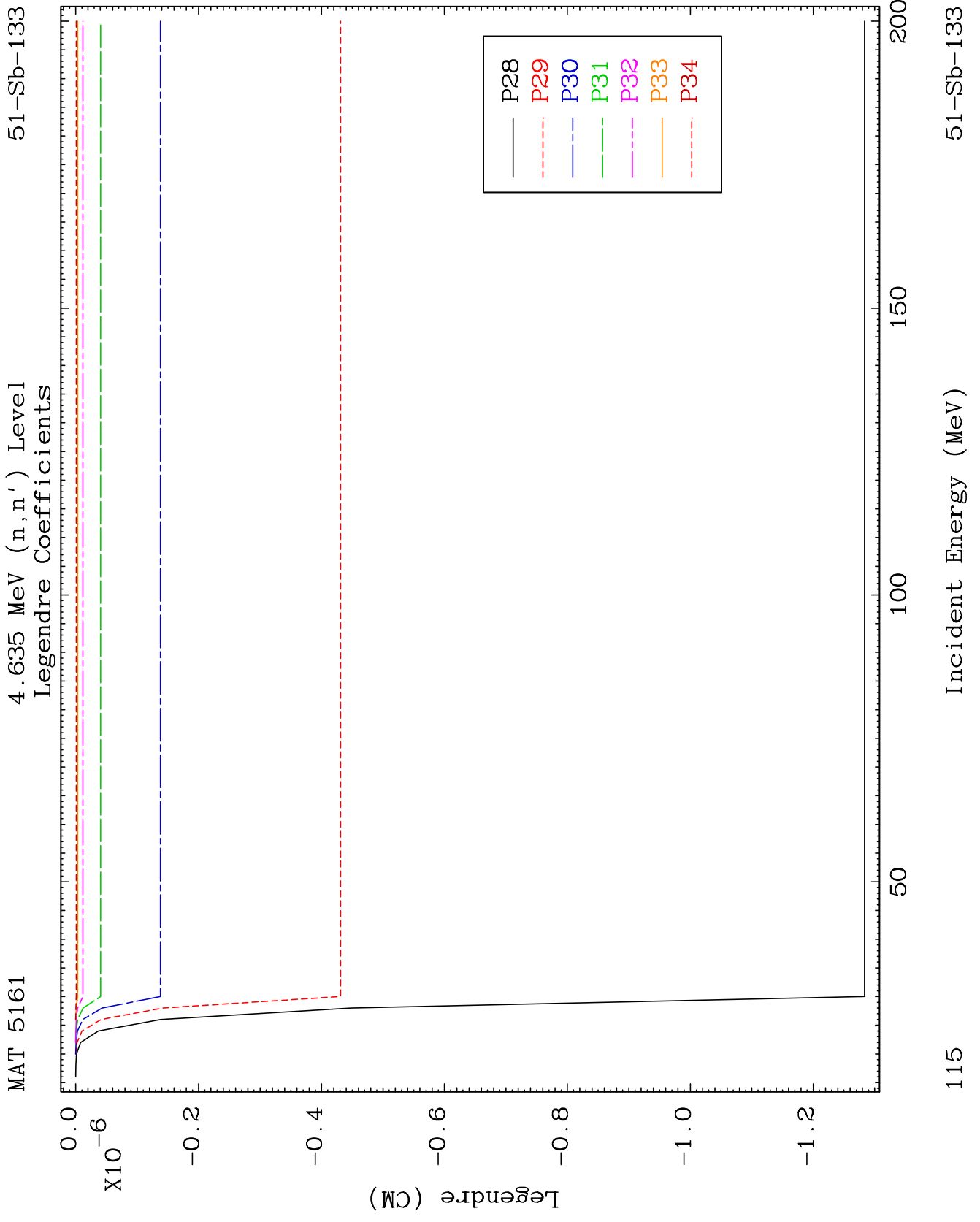
51-Sb-133

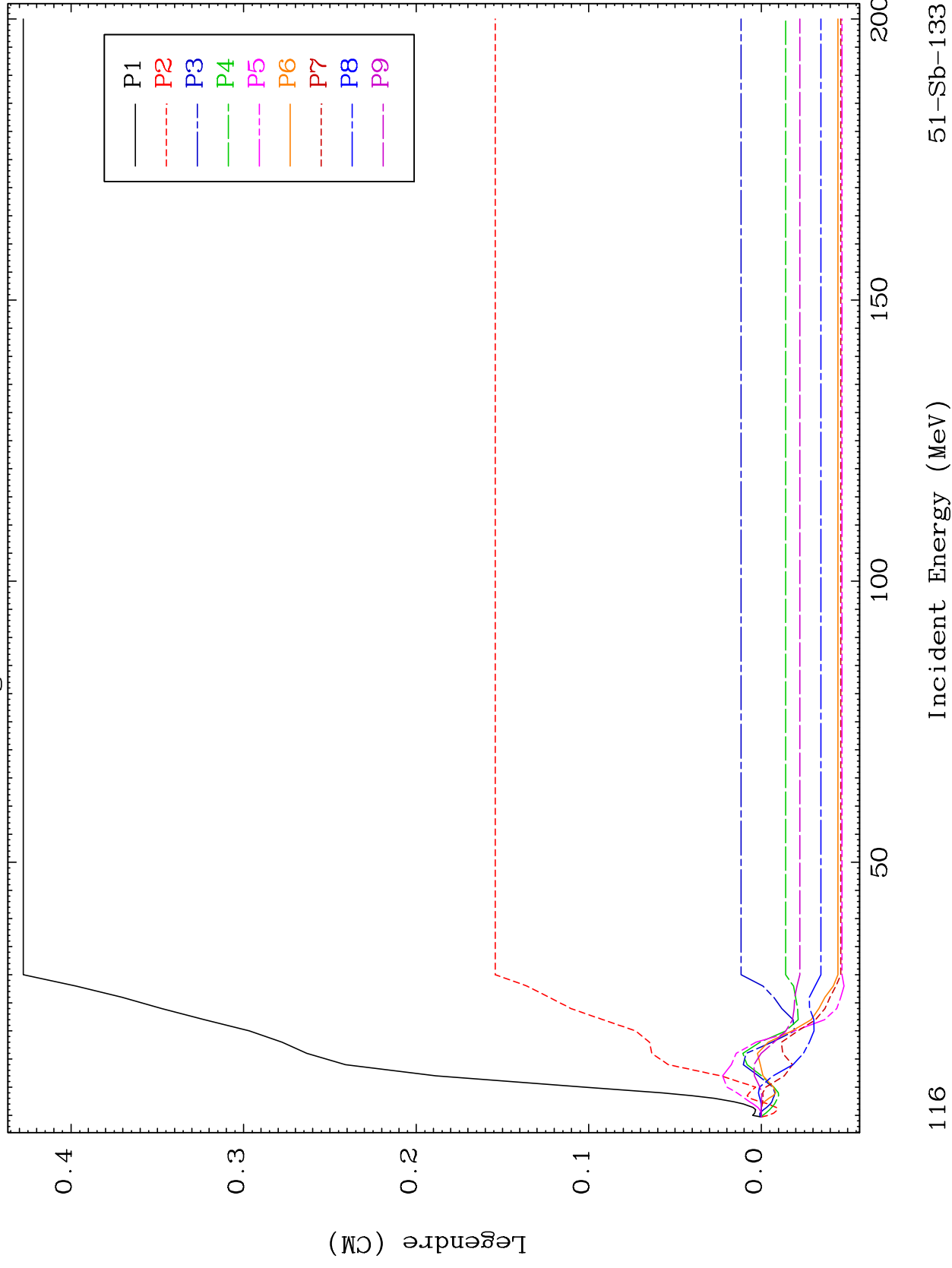


114

Incident Energy (MeV)

51-Sb-133

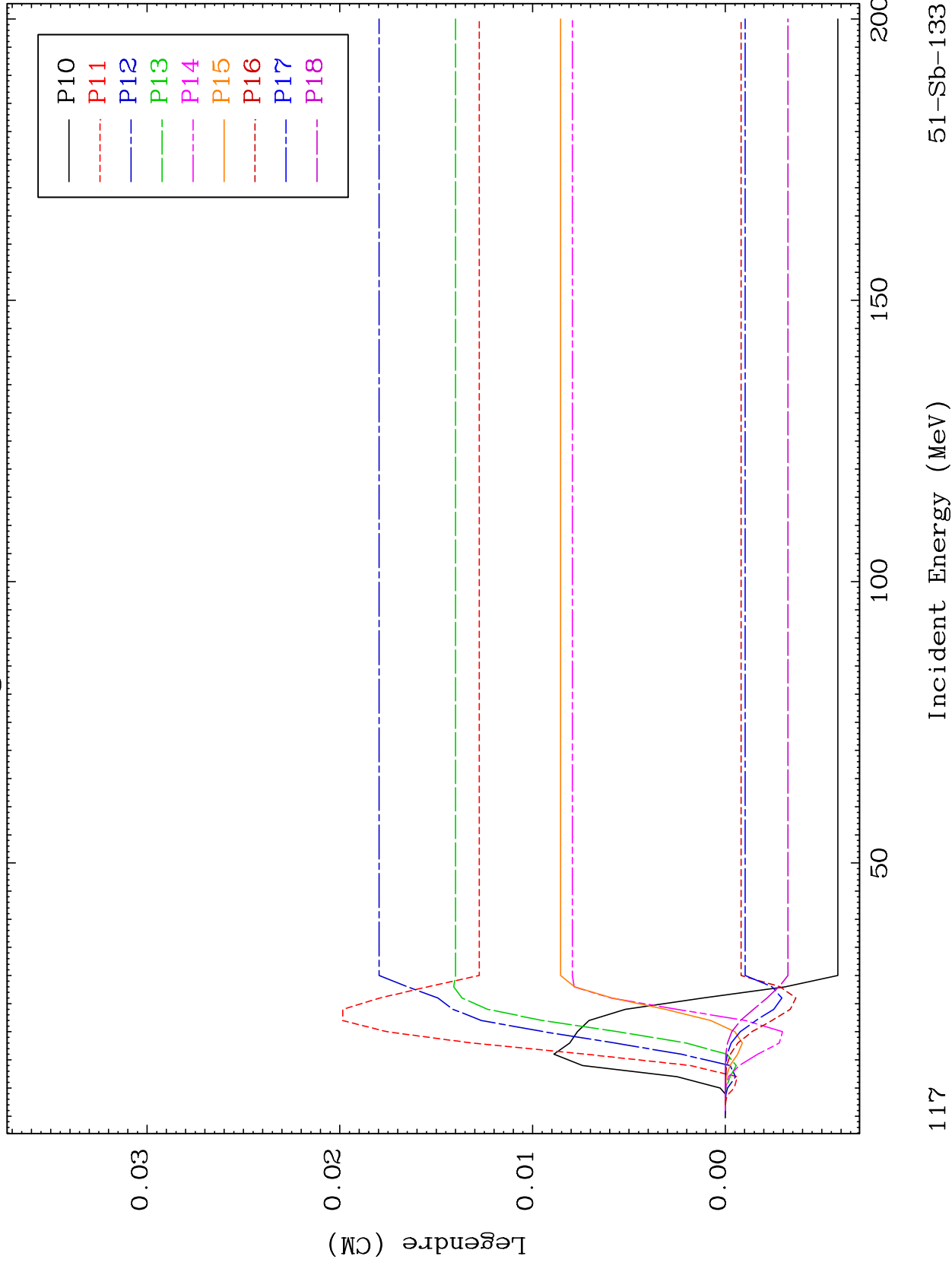




MAT 5161

4.650 MeV (n,n') Level  
Legendre Coefficients

51-Sb-133



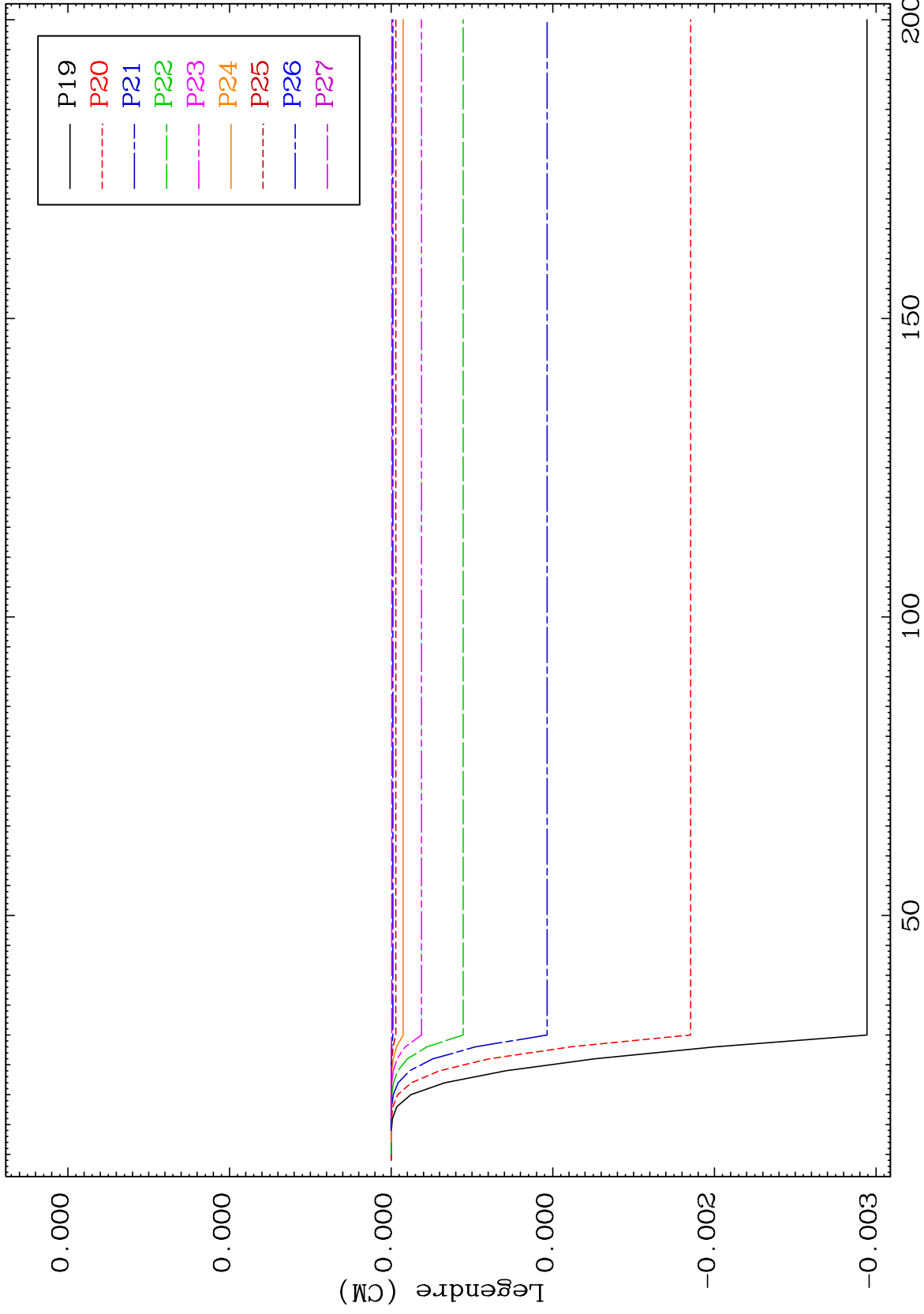
117

51-Sb-133

MAT 5161

4.650 MeV (n,n') Level  
Legendre Coefficients

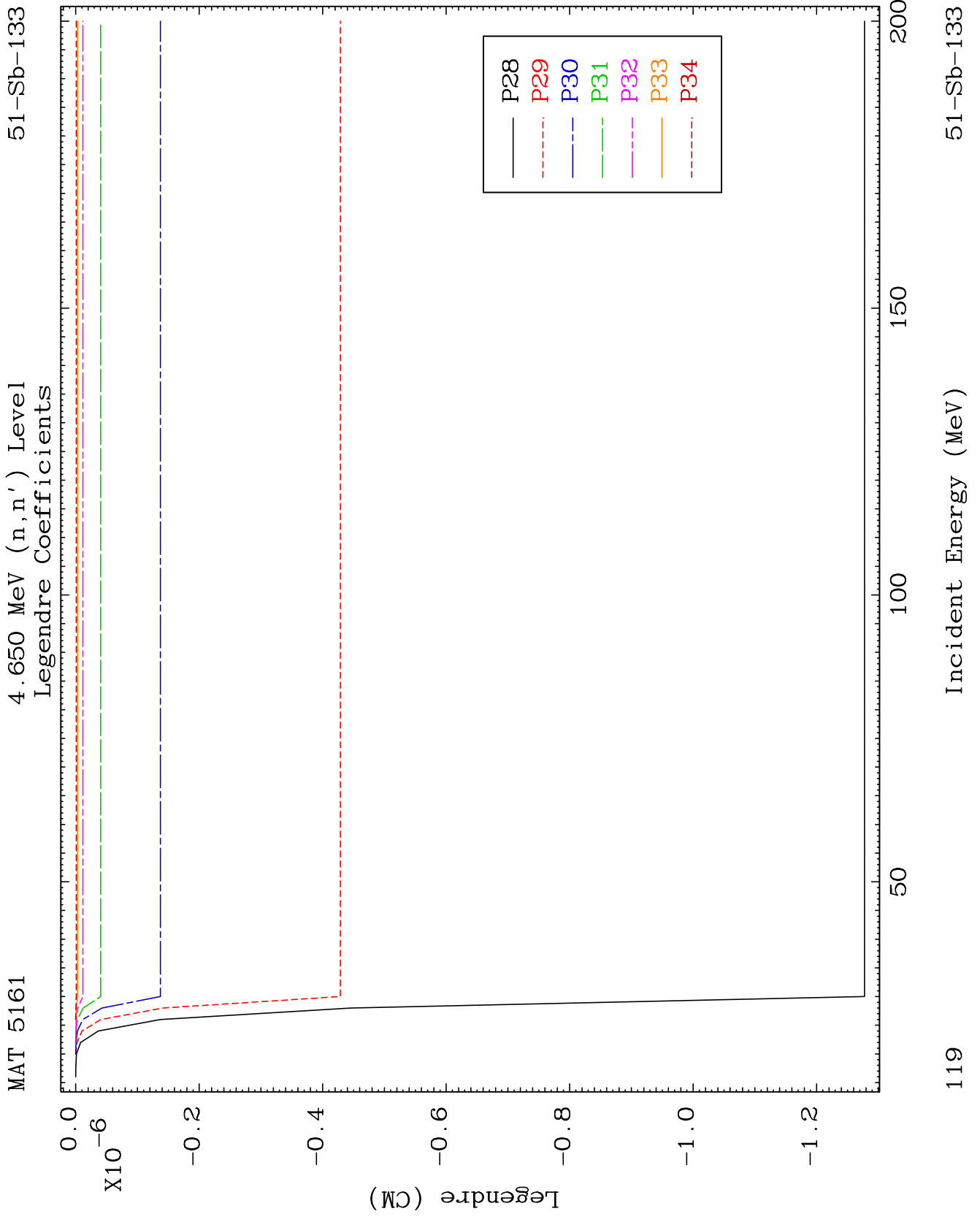
51-Sb-133



118

Incident Energy (MeV)

51-Sb-133

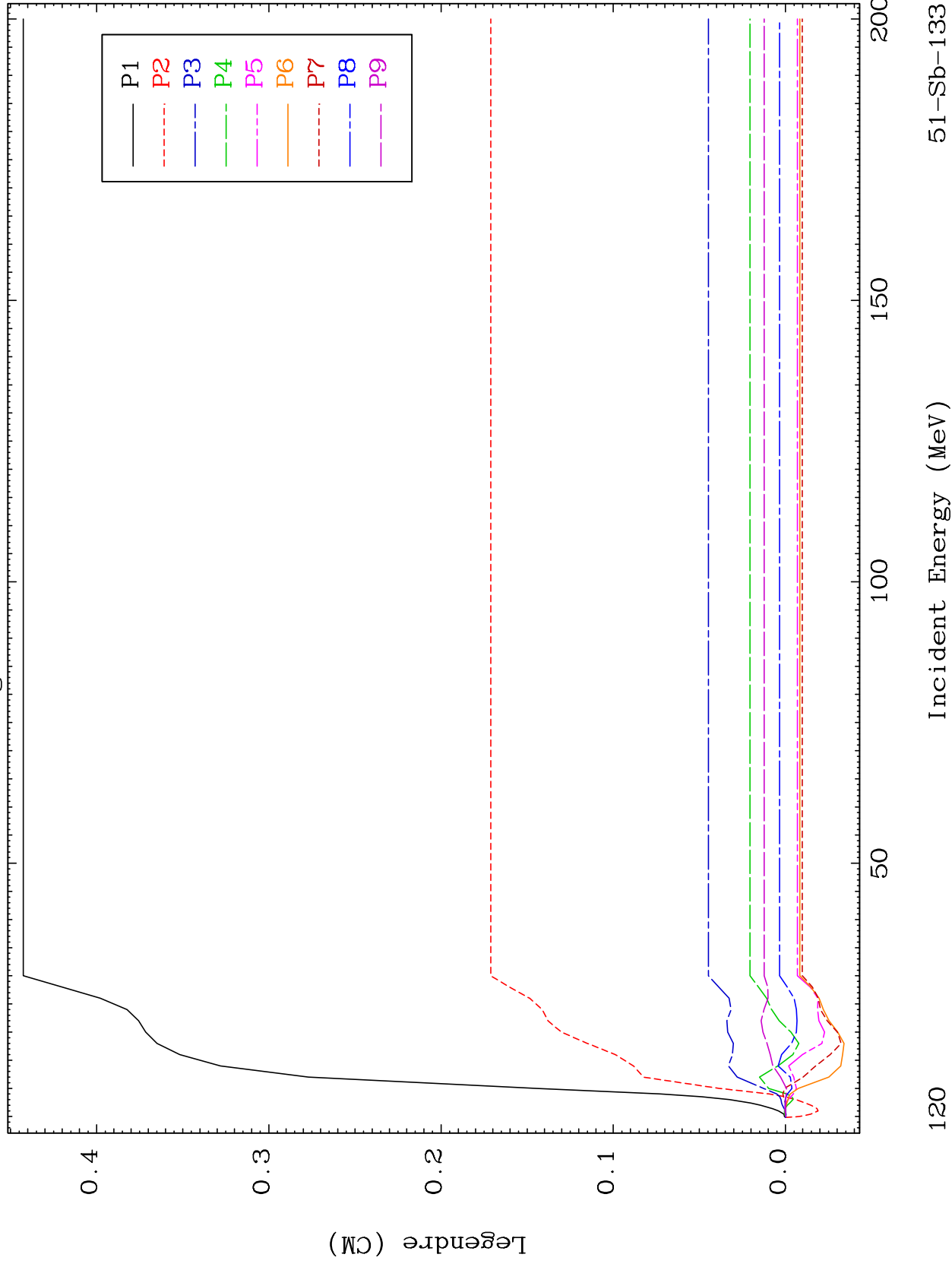




MAT 5161

4.786 MeV (n,n') Level  
Legendre Coefficients

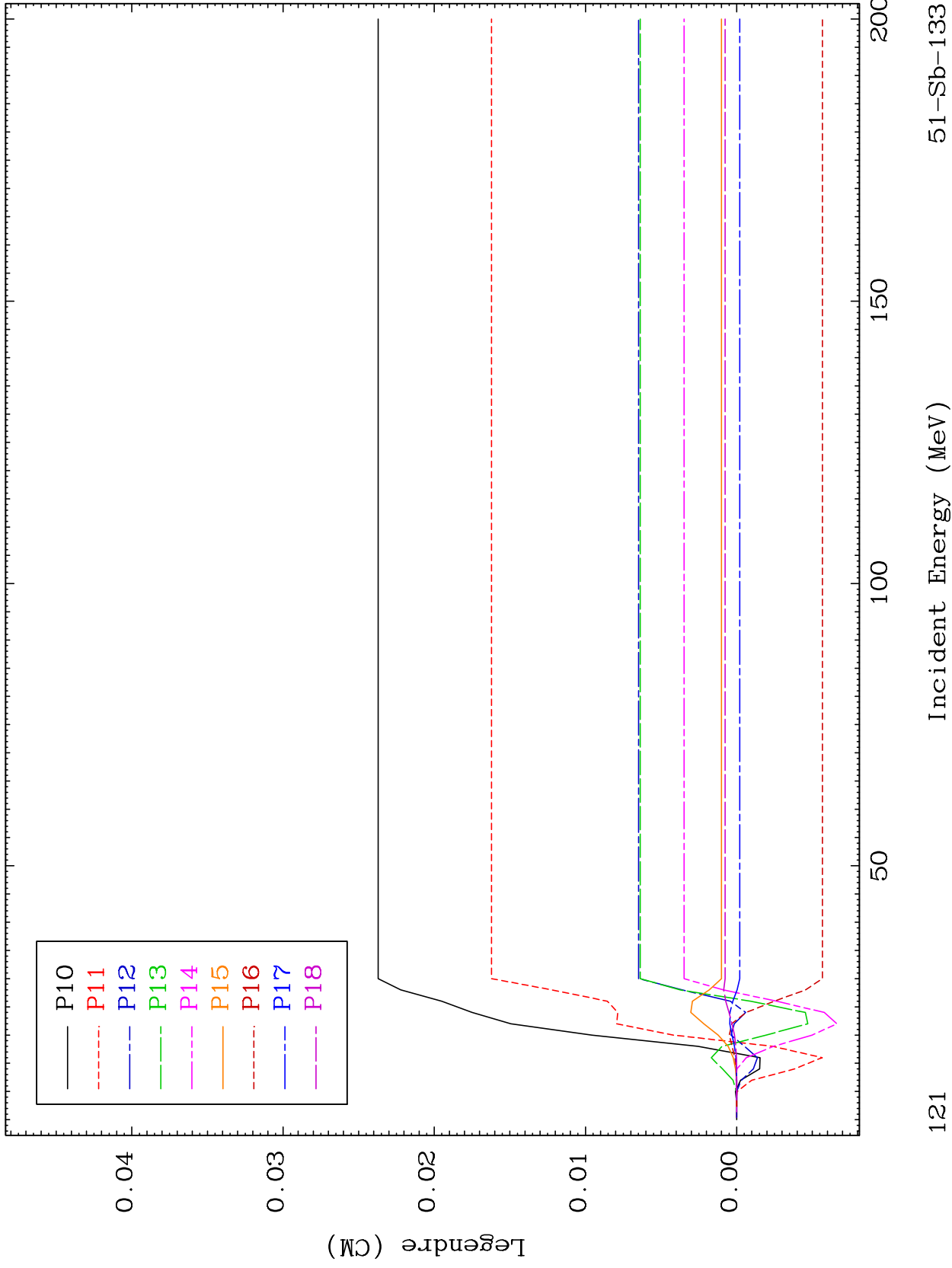
51-Sb-133

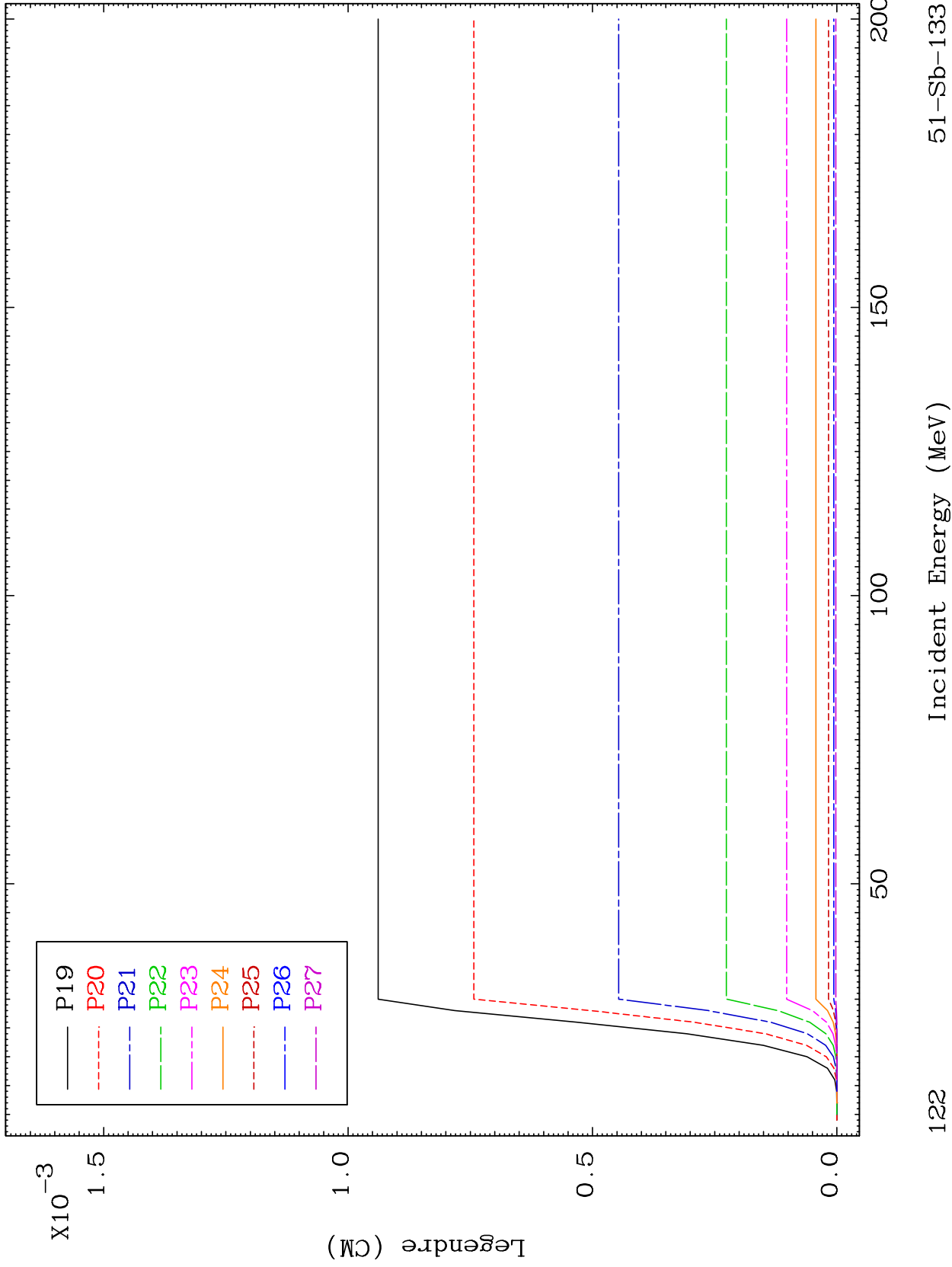


51-Sb-133

Incident Energy (MeV)

120

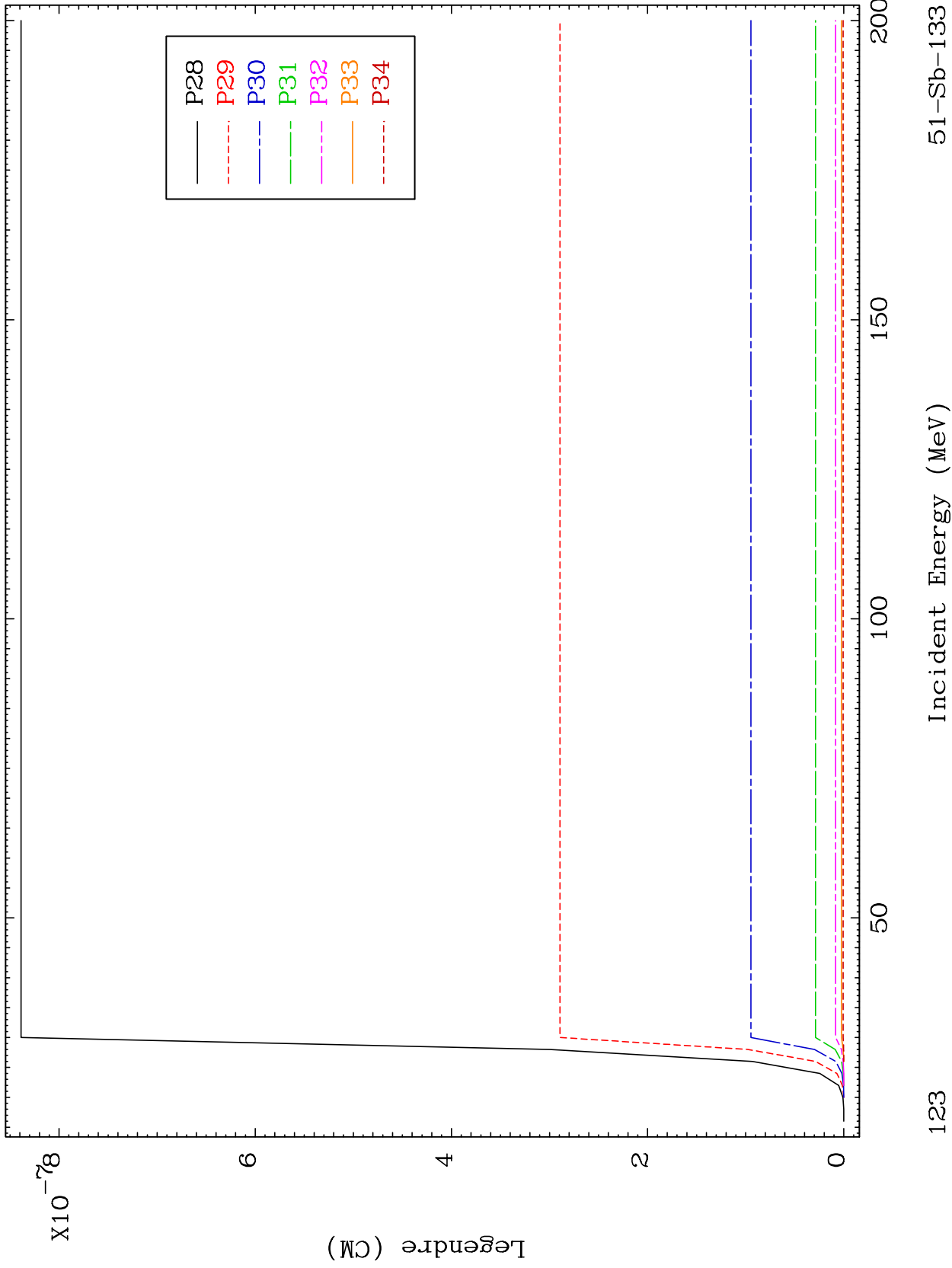




MAT 5161

4.786 MeV (n, n') Level  
Legendre Coefficients

51-Sb-133



123

Incident Energy (MeV)

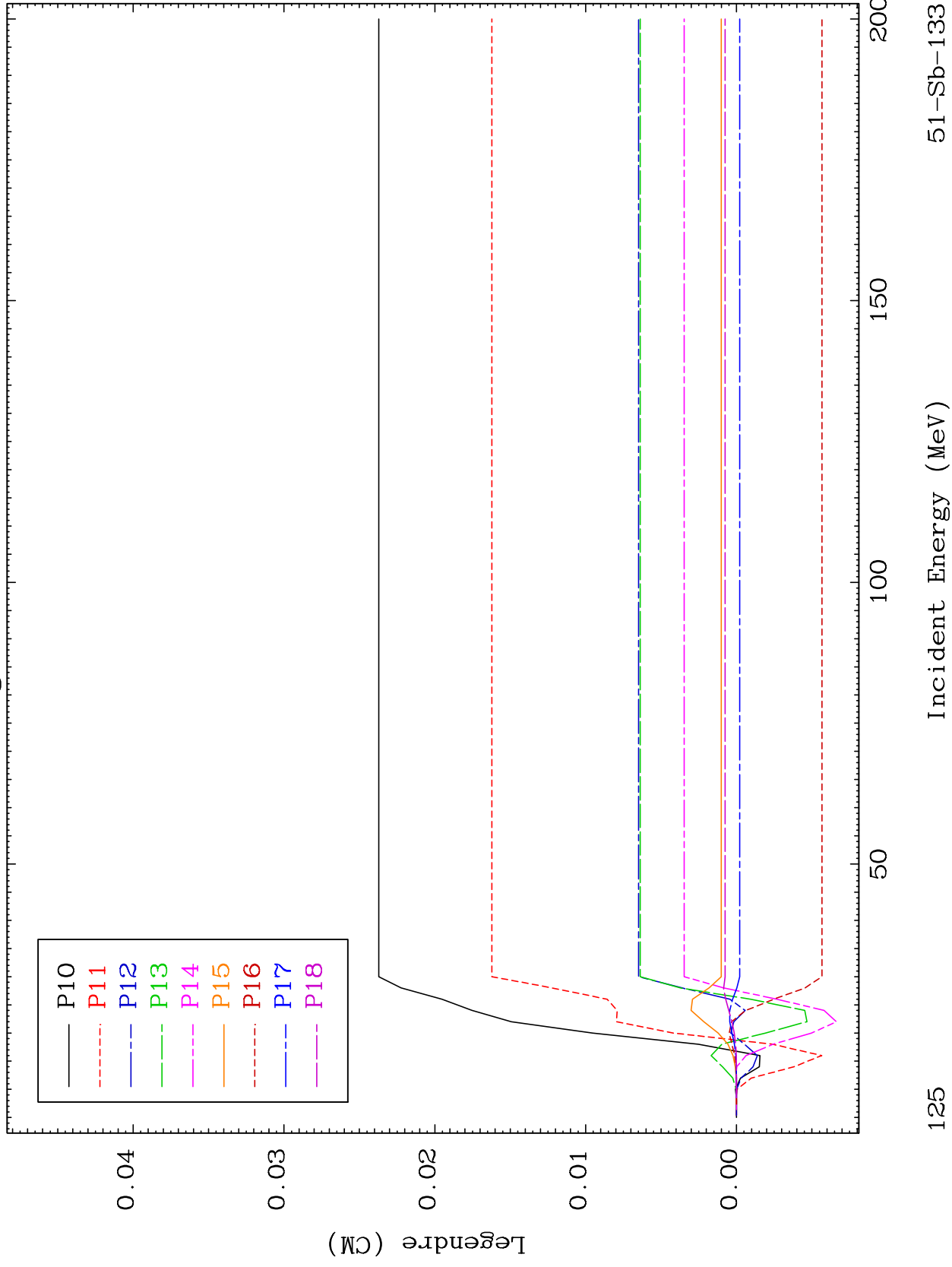
51-Sb-133



MAT 5161

4.801 MeV (n,n') Level  
Legendre Coefficients

51-Sb-133



51-Sb-133

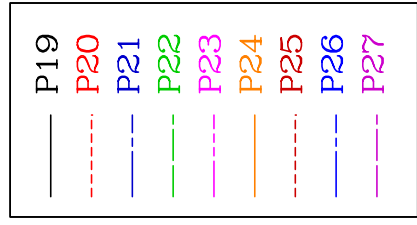
Incident Energy (MeV)

125

MAT 5161

4.801 MeV (n,n') Level  
Legendre Coefficients

51-Sb-133



$\times 10^{-3}$   
1.5

Legendre (CM)

1.0

0.5

0.0

50

100

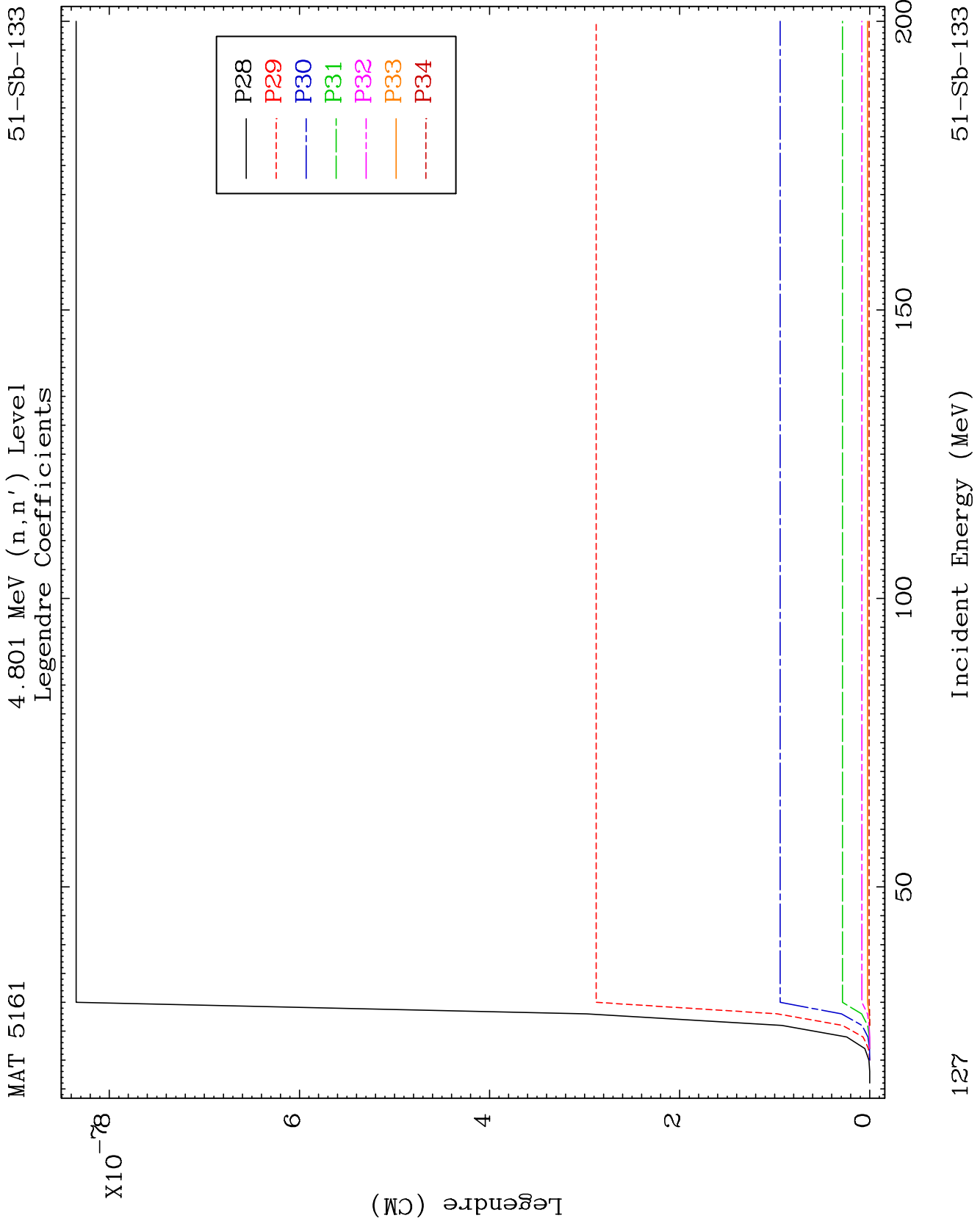
150

200

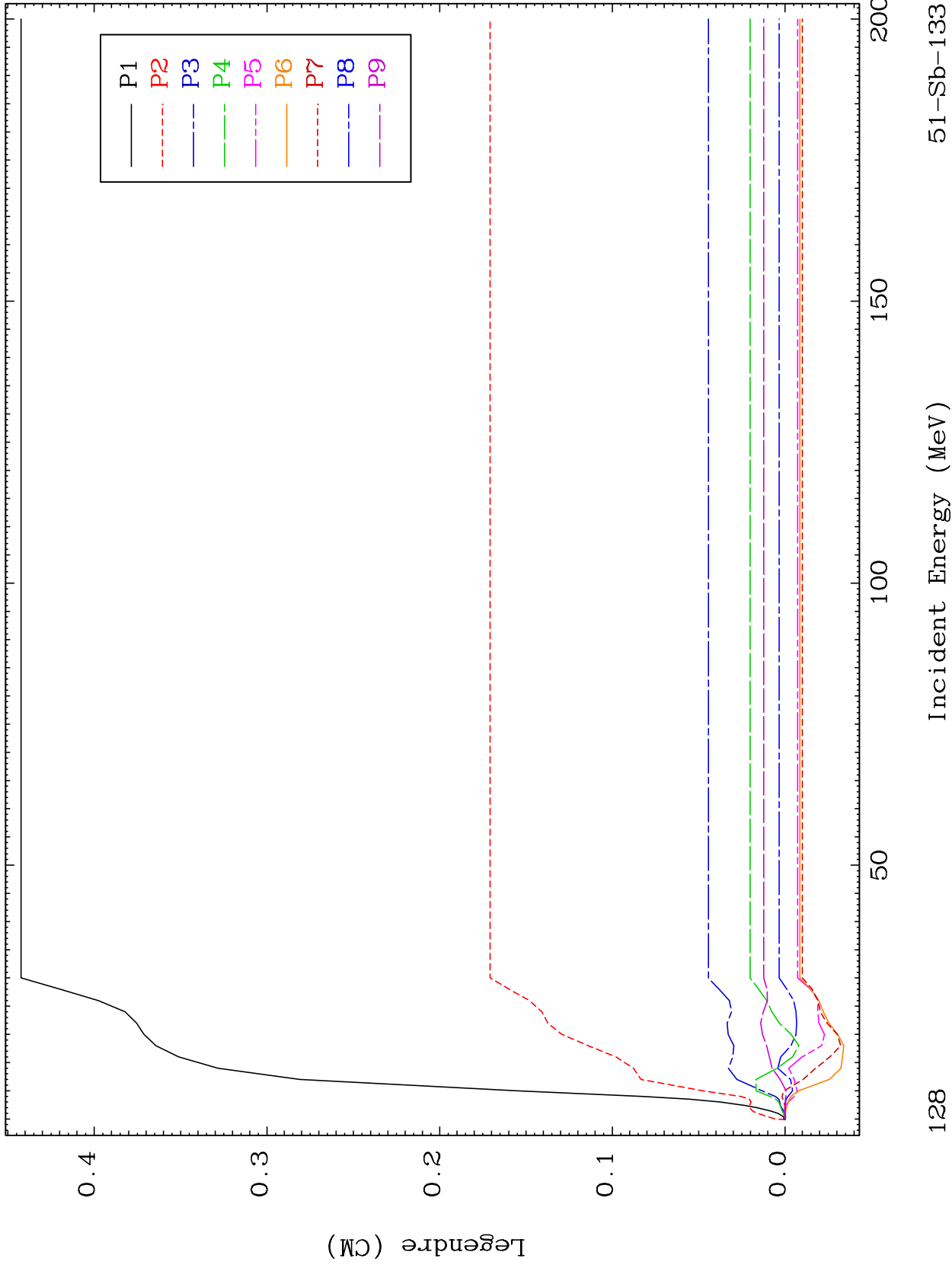
126

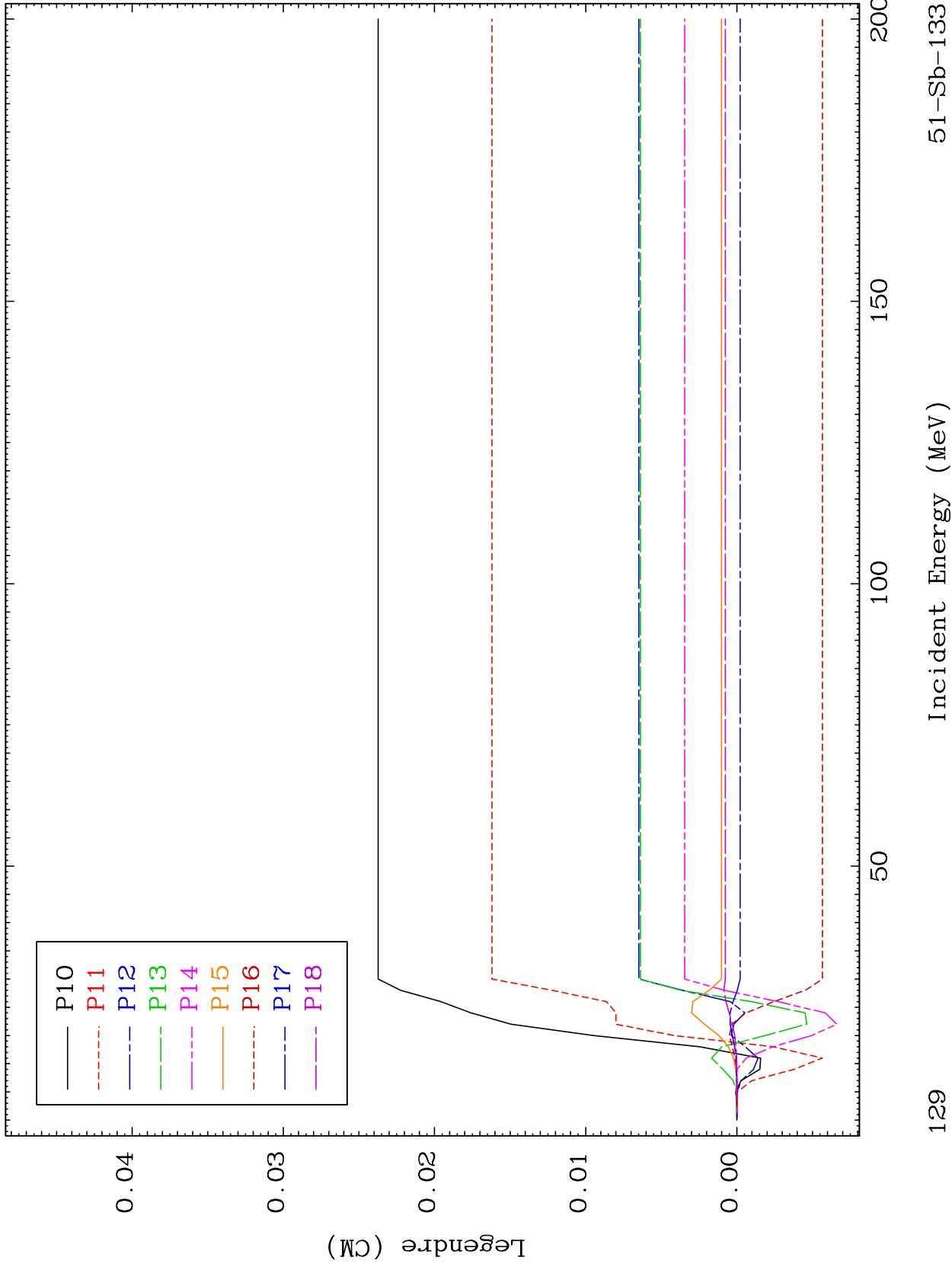
Incident Energy (MeV)

51-Sb-133





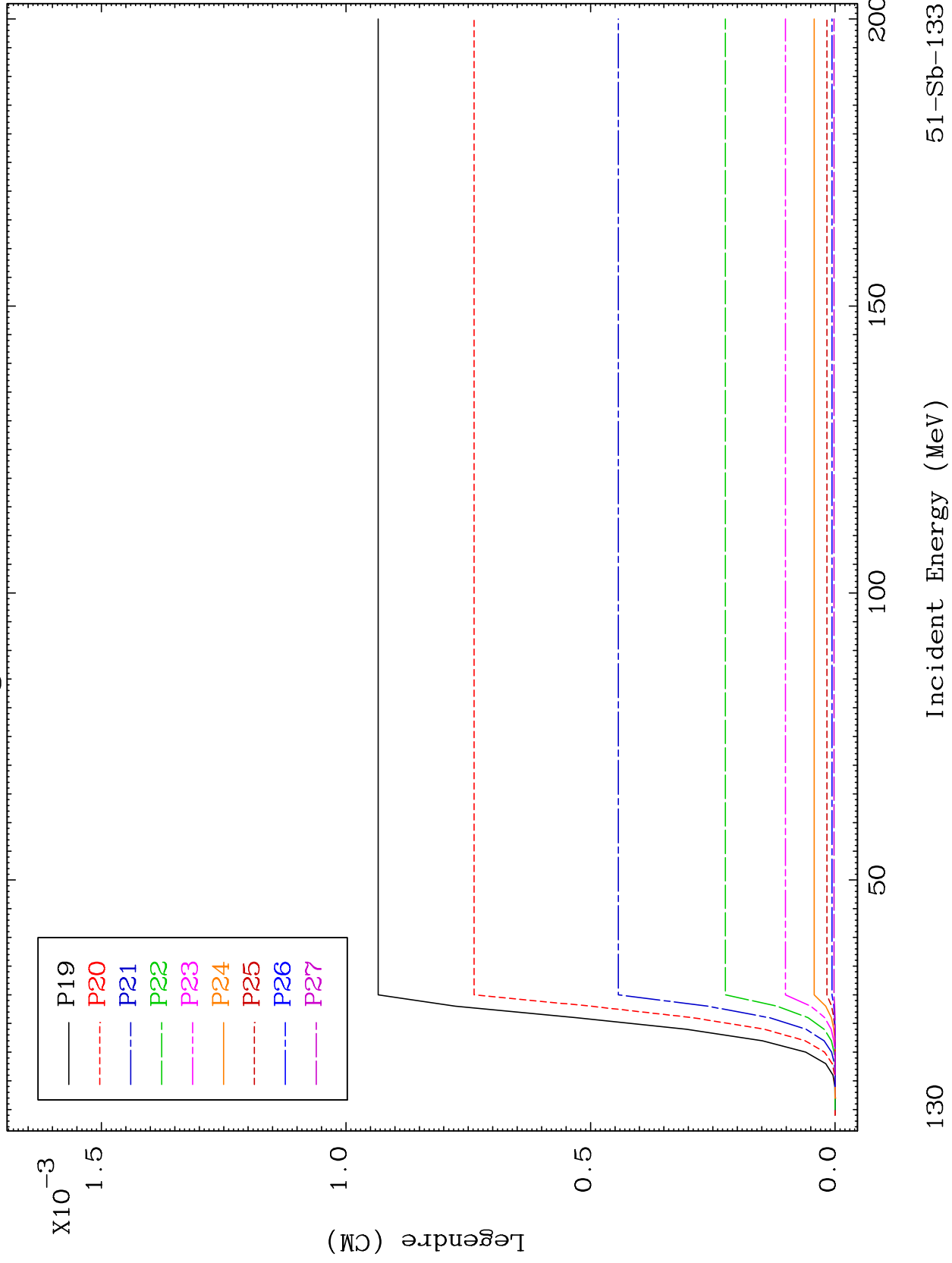


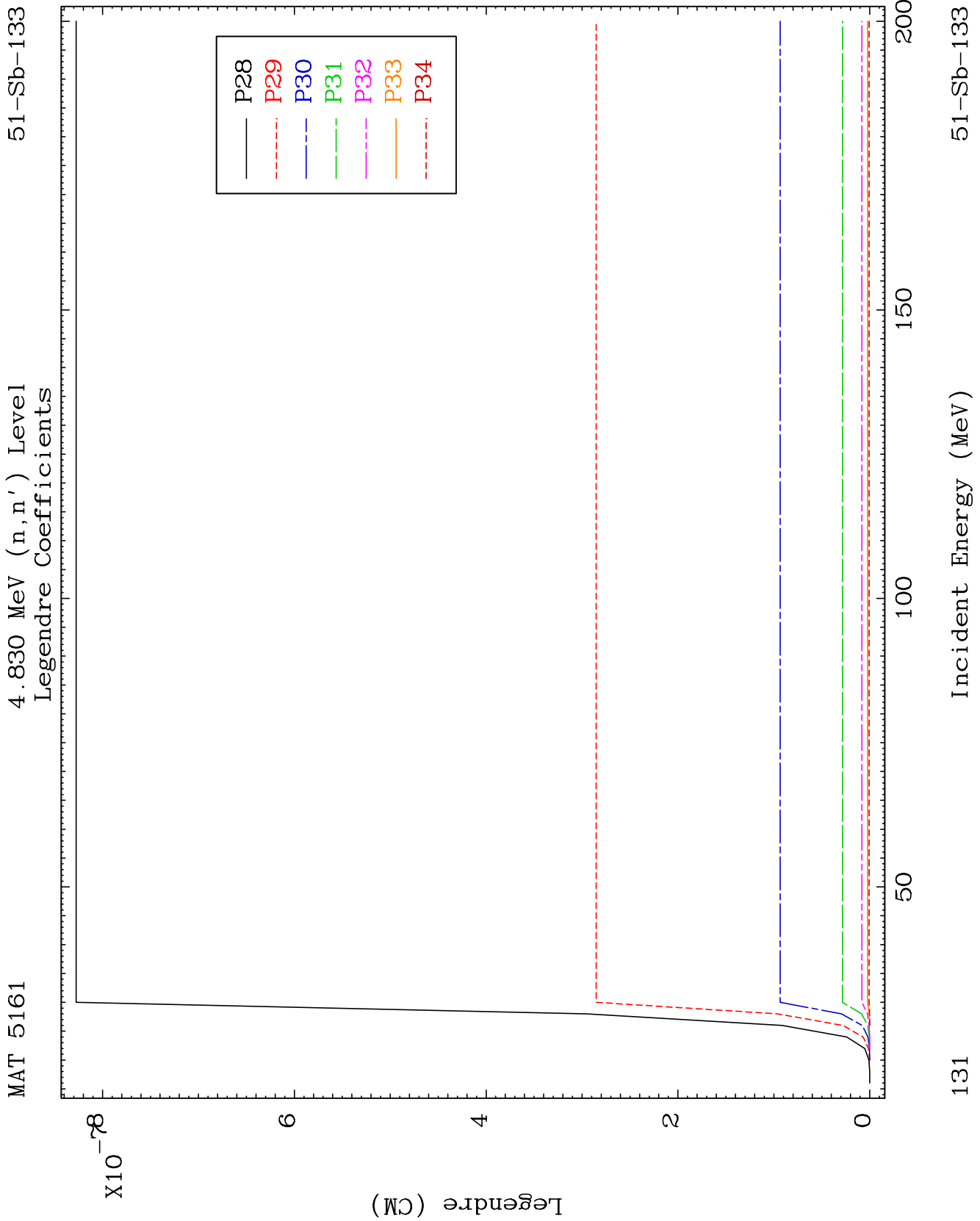


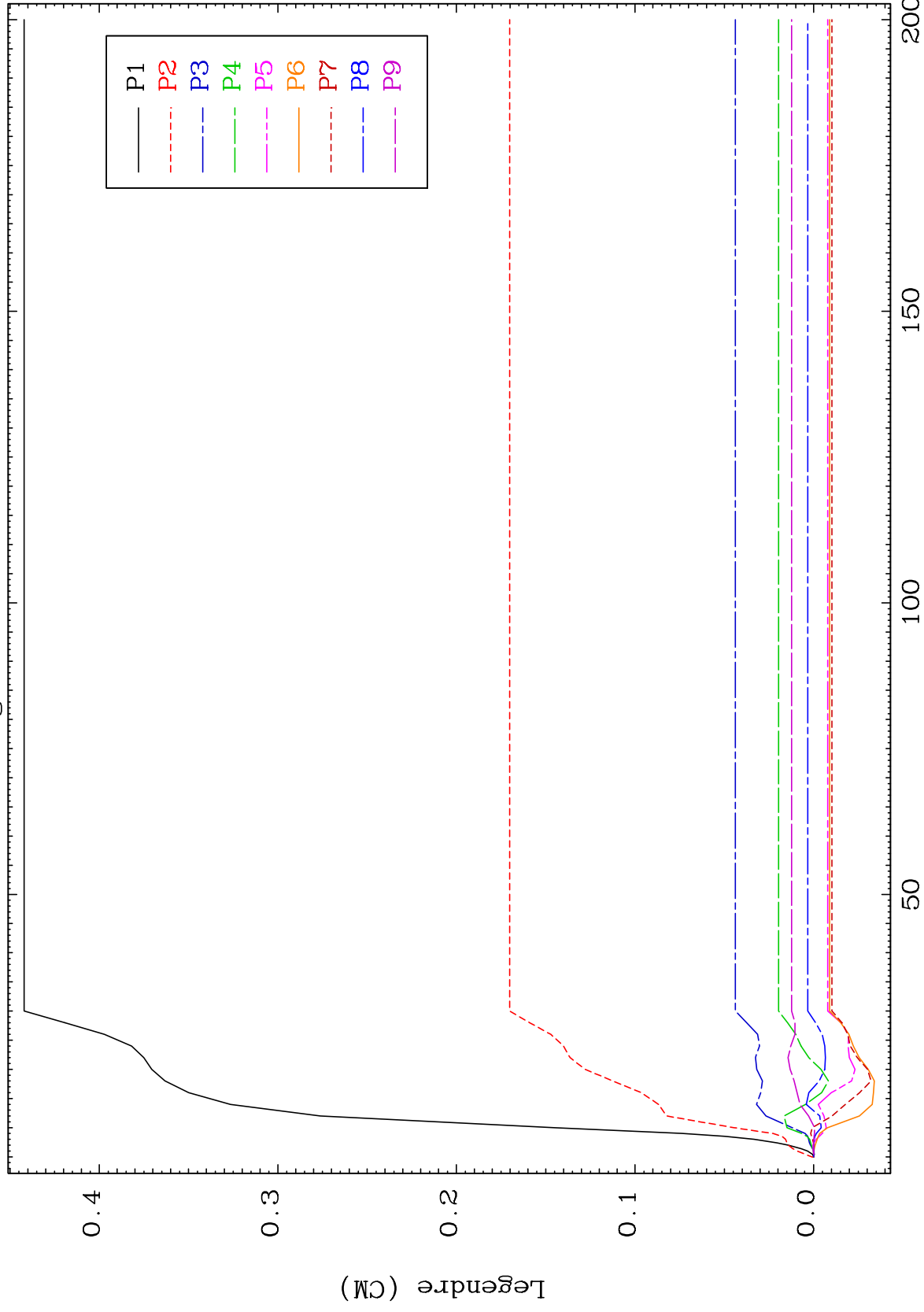
MAT 5161

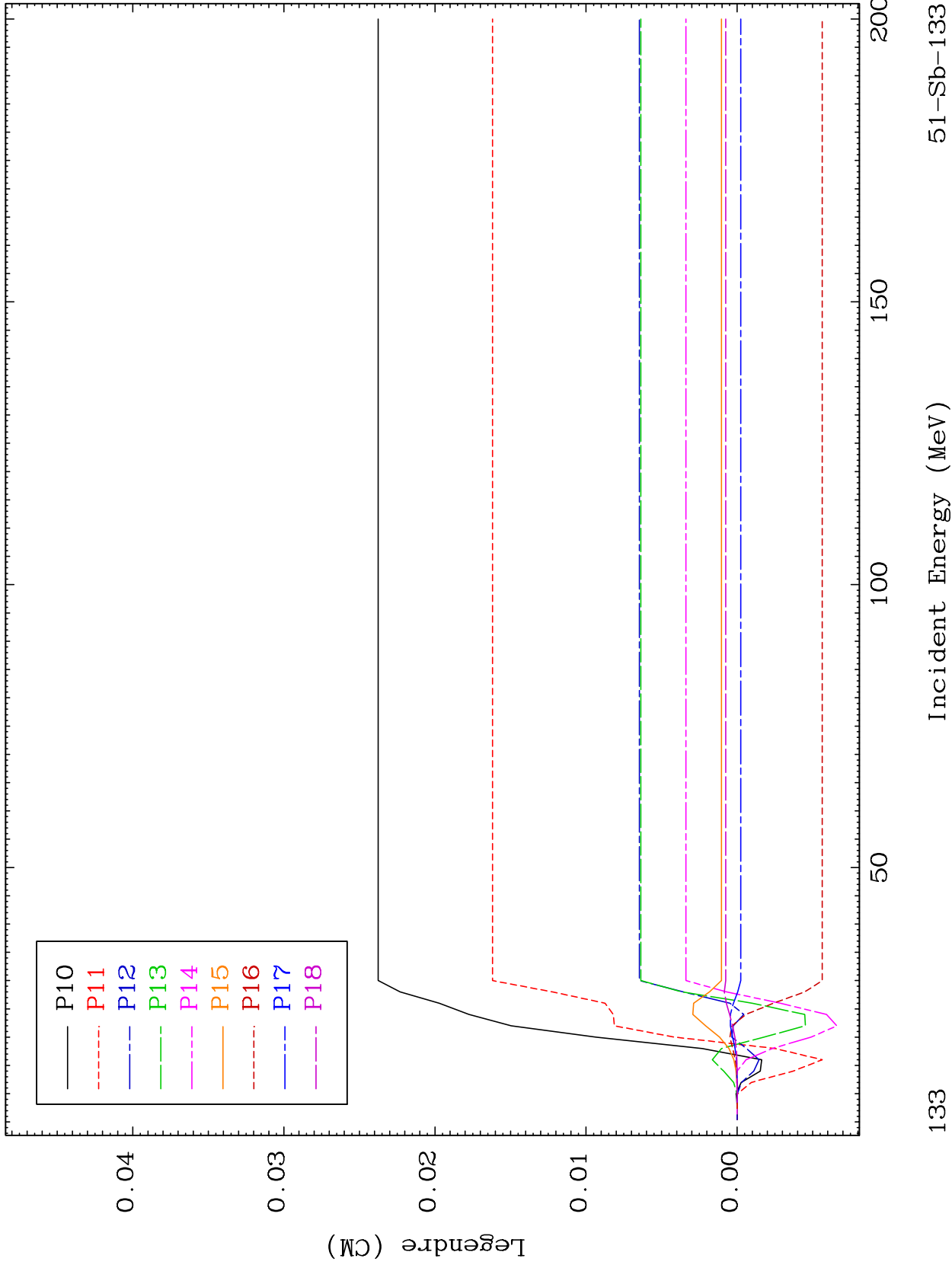
4.830 MeV (n,n') Level  
Legendre Coefficients

51-Sb-133





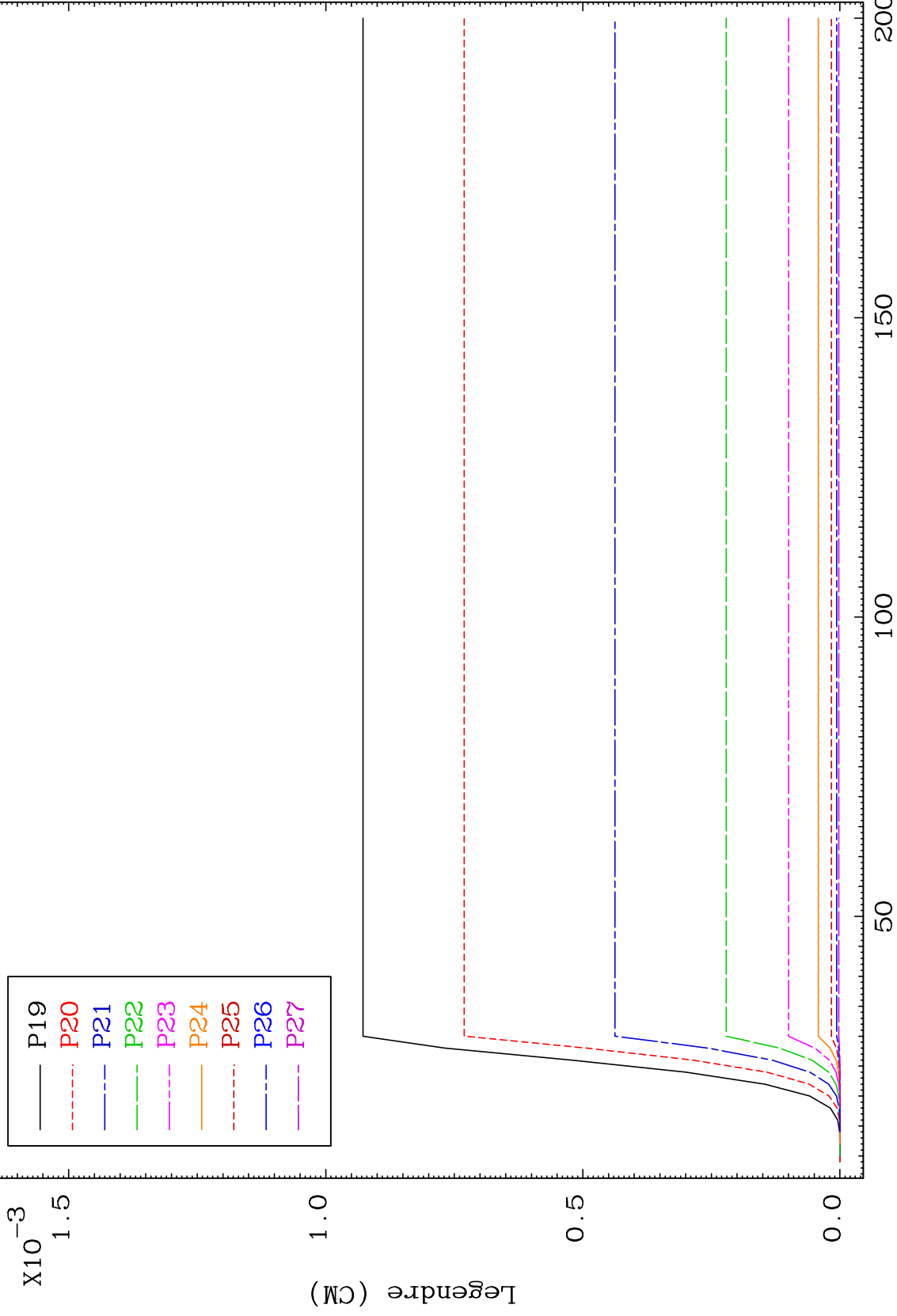
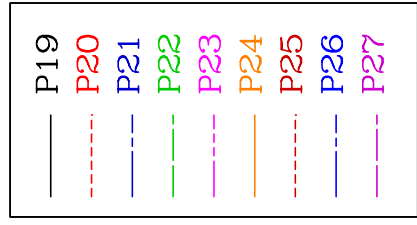




MAT 5161

4.898 MeV (n,n') Level  
Legendre Coefficients

51-Sb-133



134

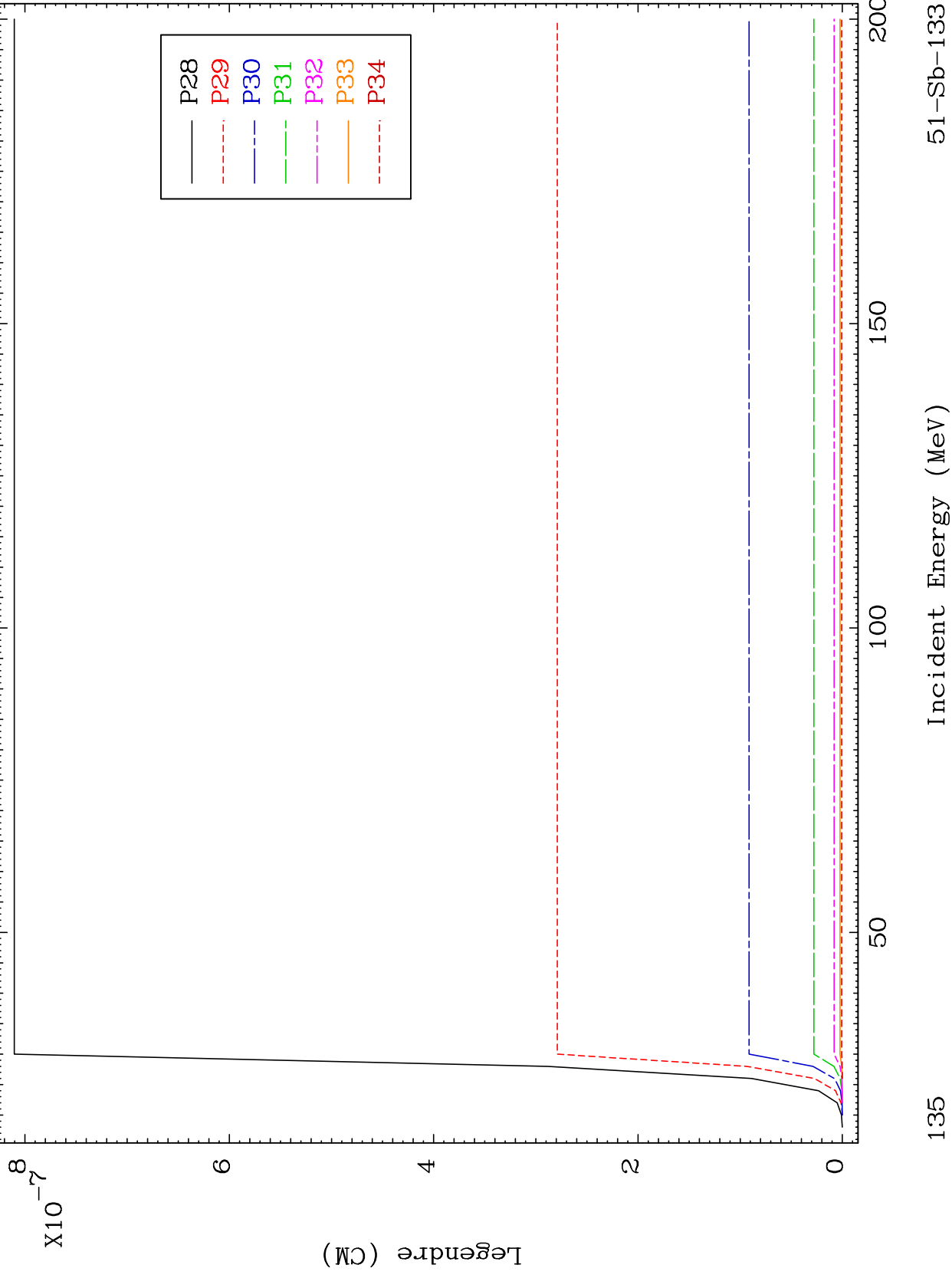
Incident Energy (MeV)

51-Sb-133

MAT 5161

4.898 MeV (n,n') Level  
Legendre Coefficients

51-Sb-133



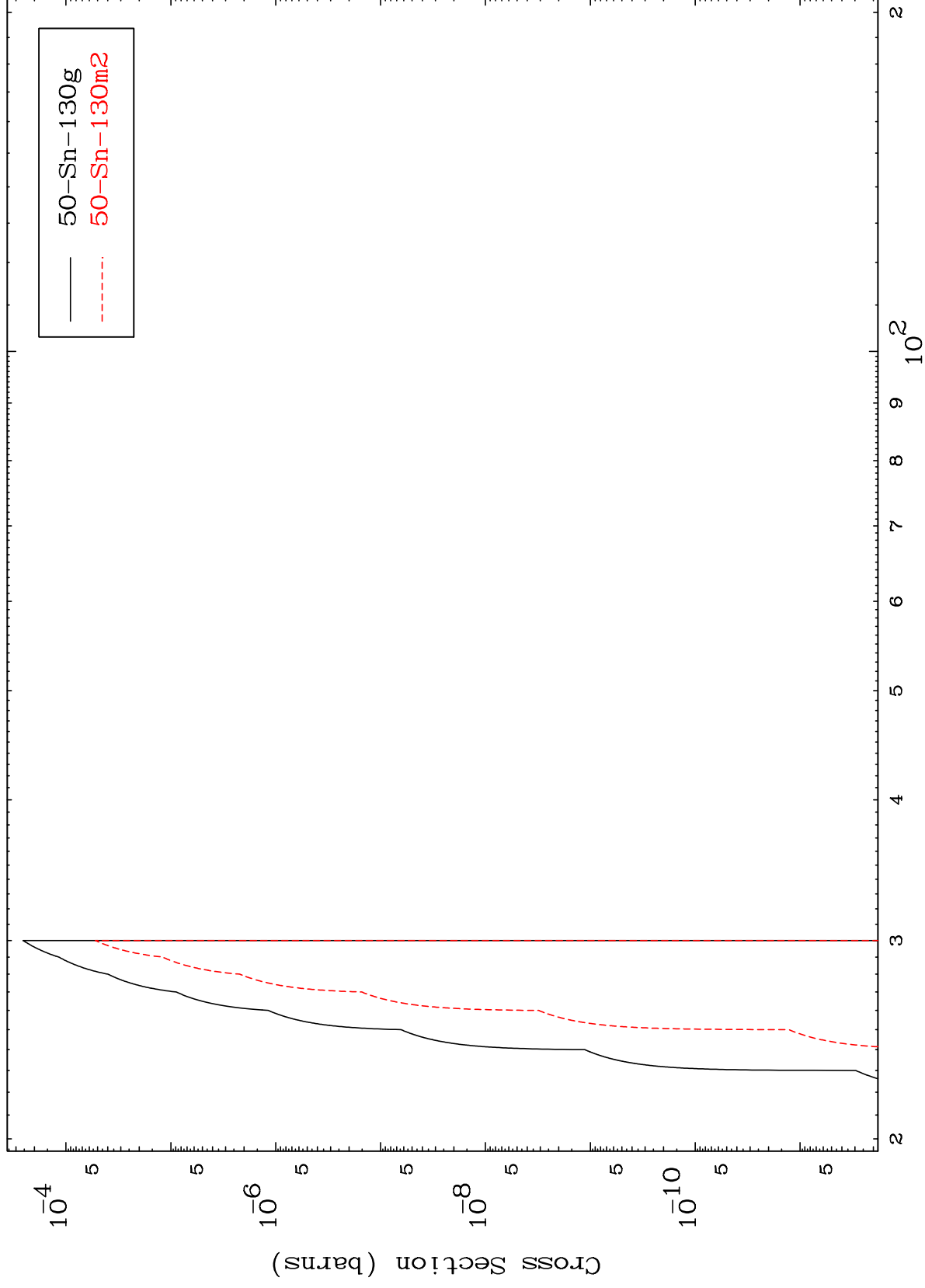


MAT 5161

(n,2n) d

51-Sb-133

Radionuclide Production Cross Section



136

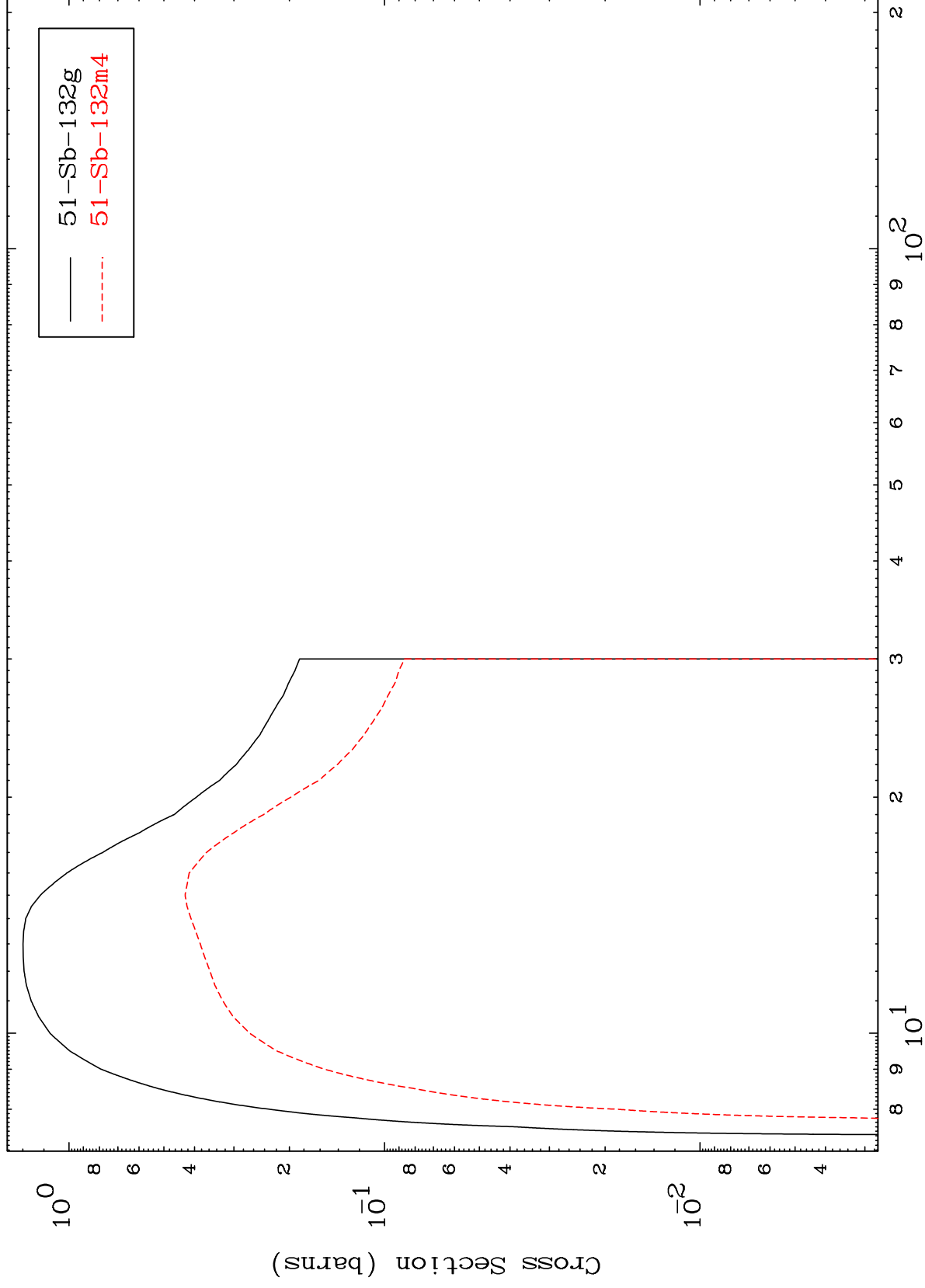
Incident Energy (MeV)

51-Sb-133

MAT 5161

51-Sb-133

(n,2n)  
Radionuclide Production Cross Section



137

Incident Energy (MeV)

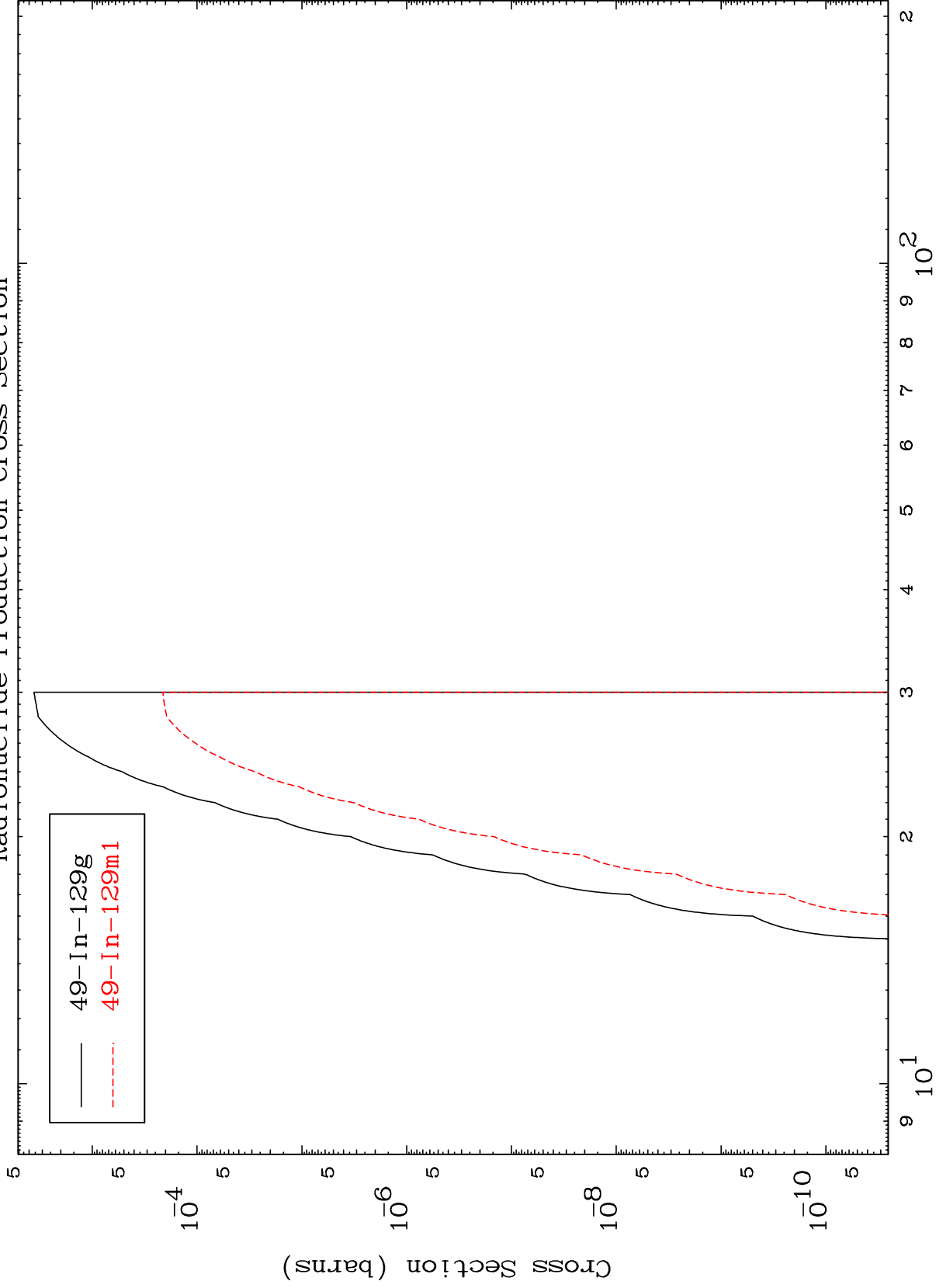
51-Sb-133

MAT 5161

(n,n')  $\alpha$

51-Sb-133

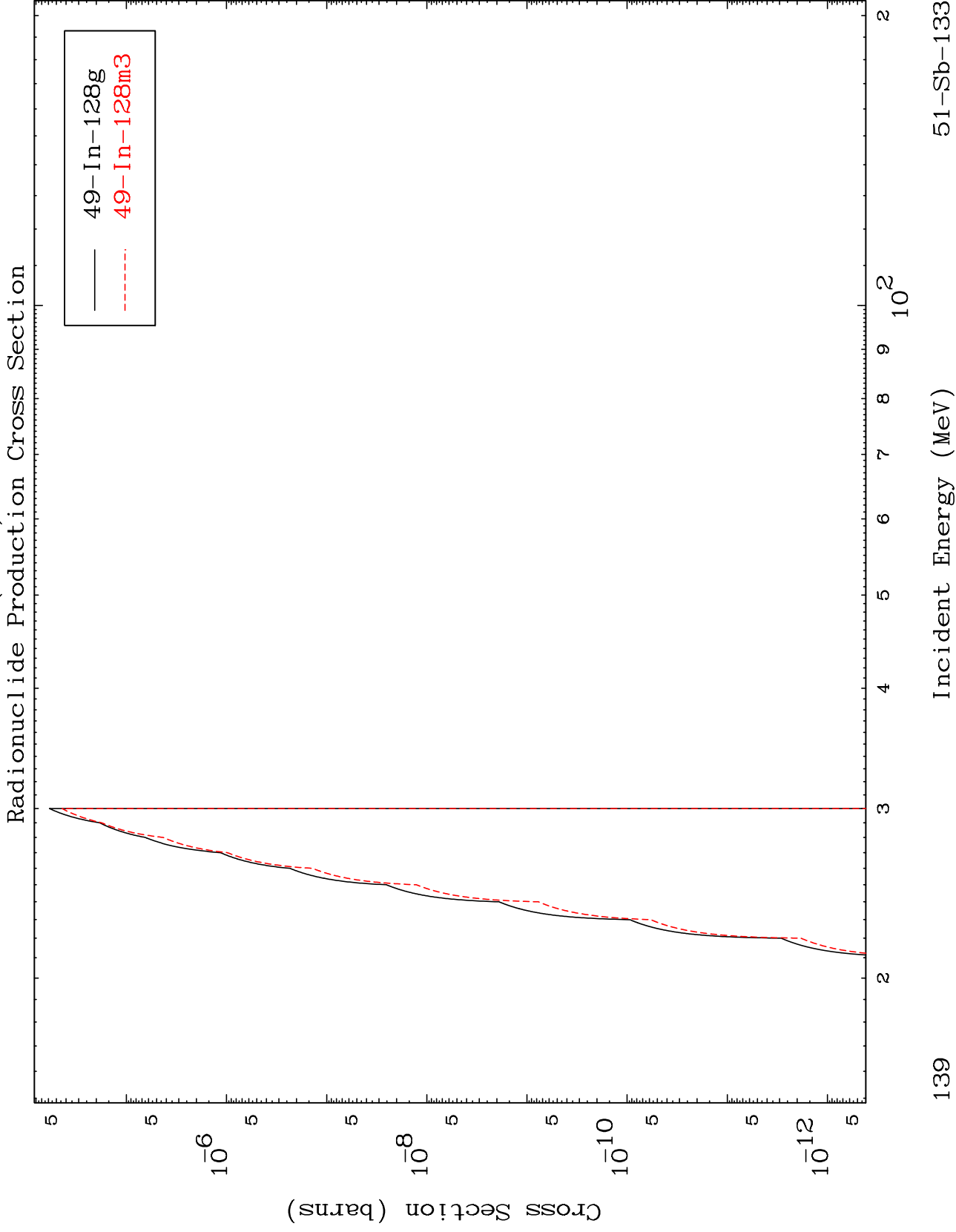
Radionuclide Production Cross Section



138

Incident Energy (MeV)

51-Sb-133

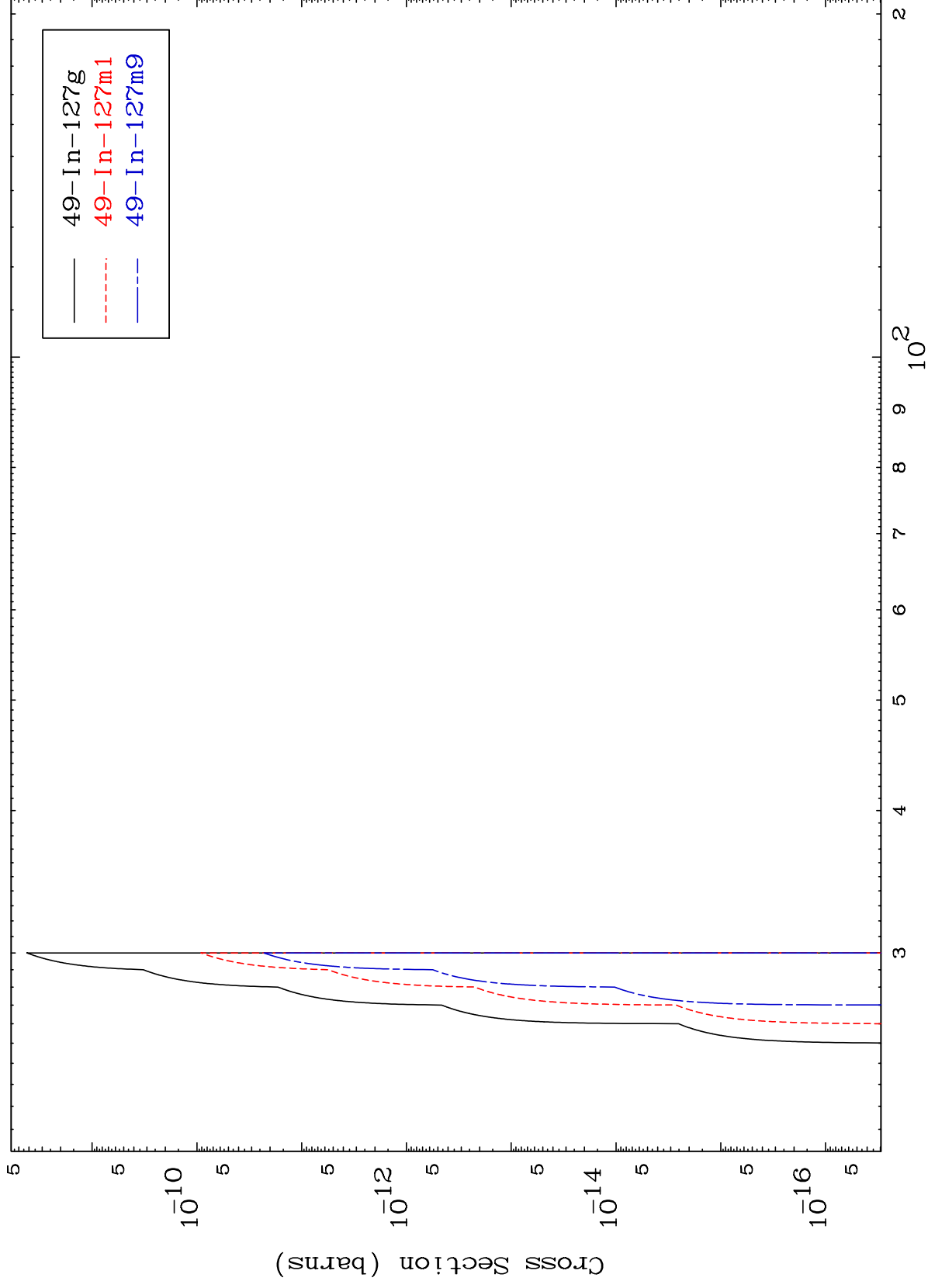


MAT 5161

(n,3n)  $\alpha$

51-Sb-133

Radionuclide Production Cross Section



140

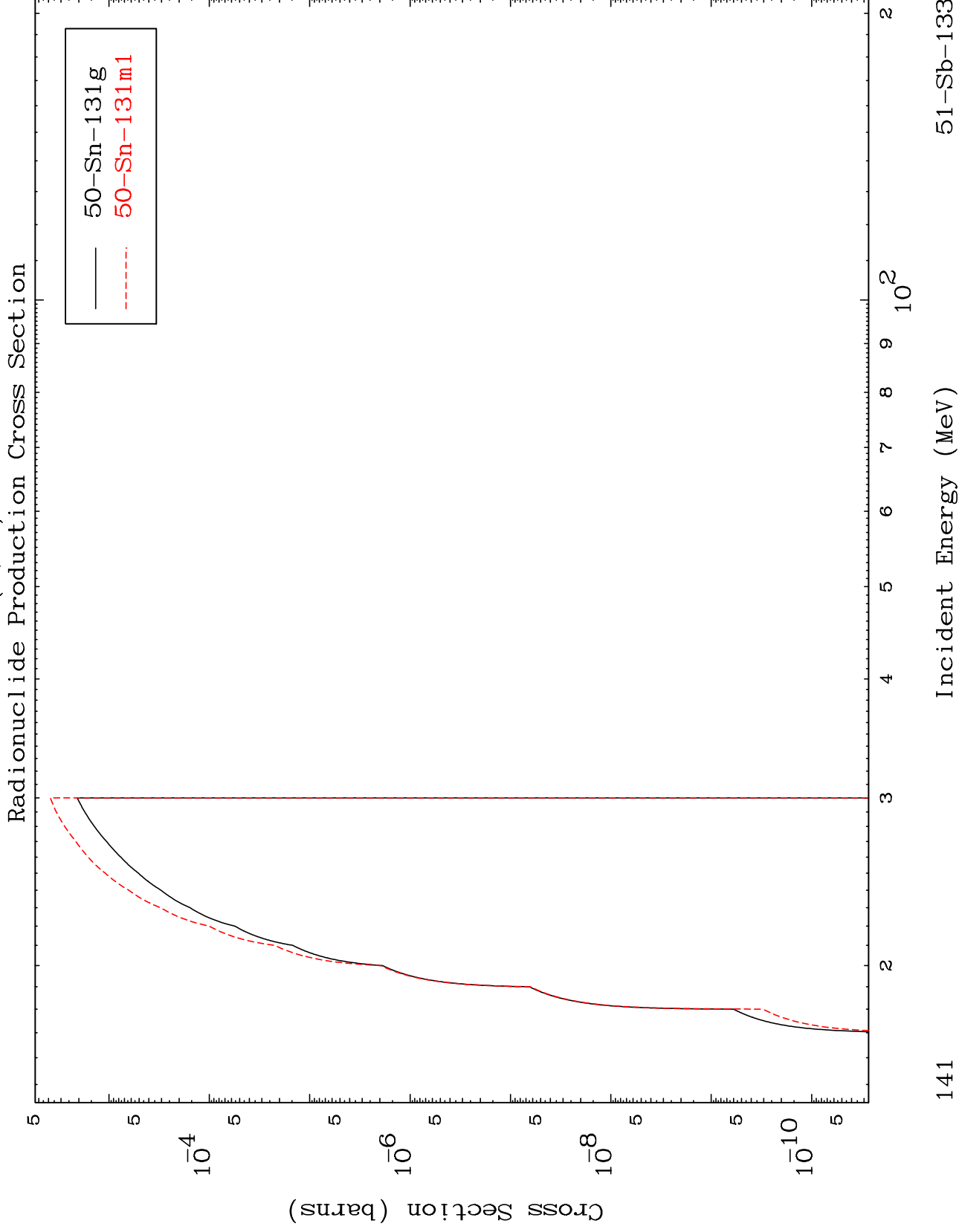
Incident Energy (MeV)

51-Sb-133

MAT 5161

(n,n') d

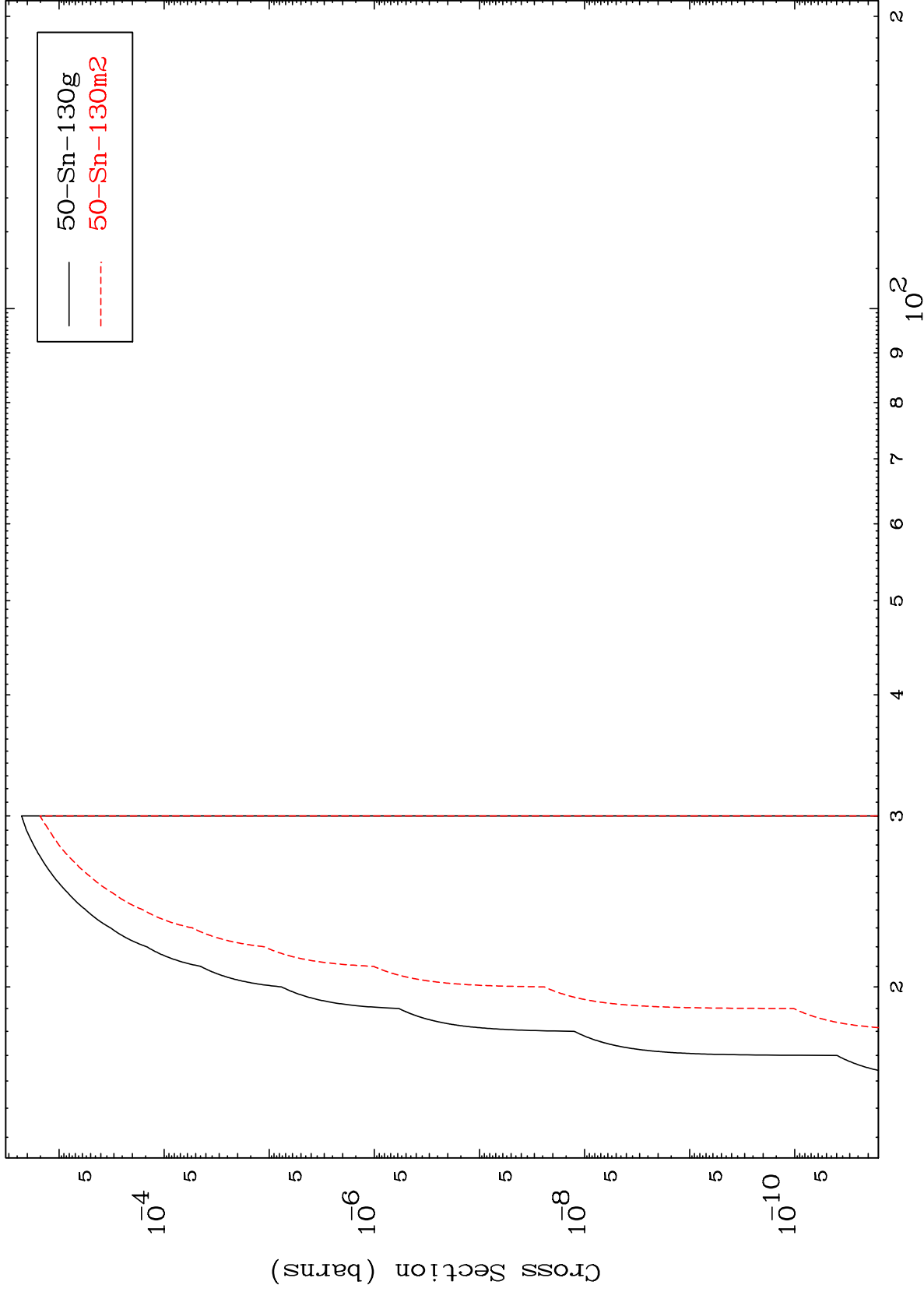
51-Sb-133



141

51-Sb-133

Radionuclide Production Cross Section

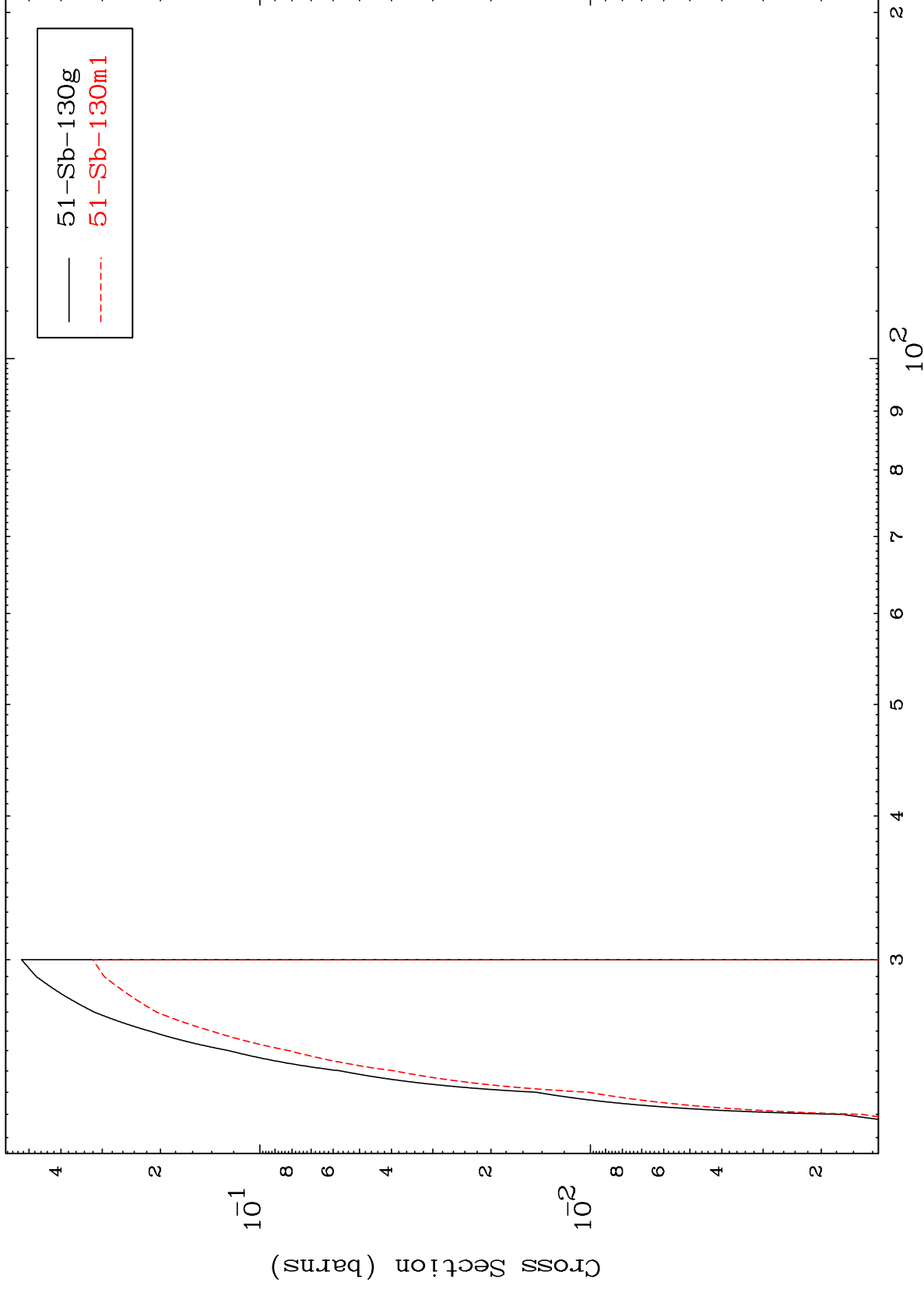


MAT 5161

(n,4n)

51-Sb-133

Radionuclide Production Cross Section



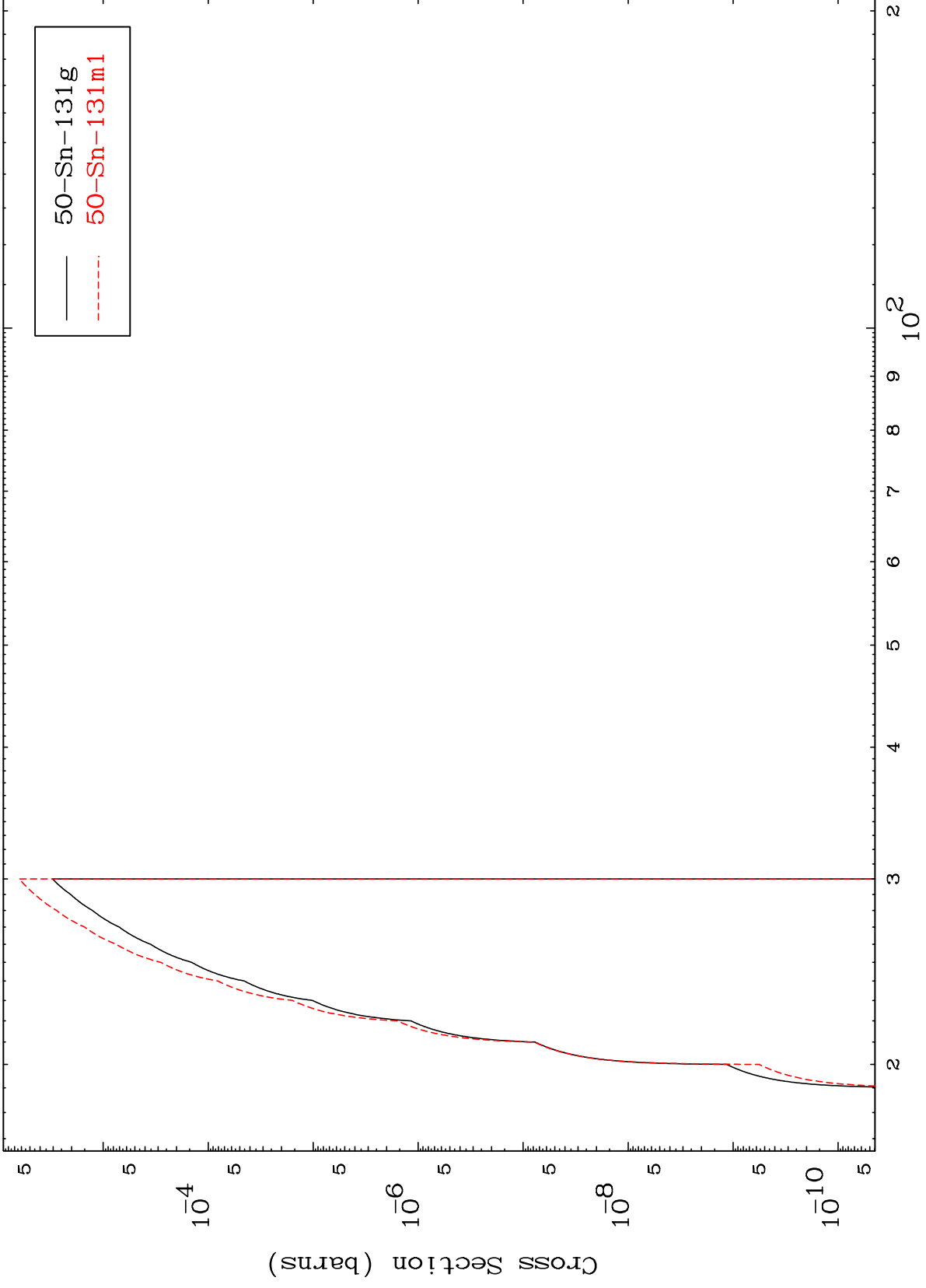
143

Incident Energy (MeV)

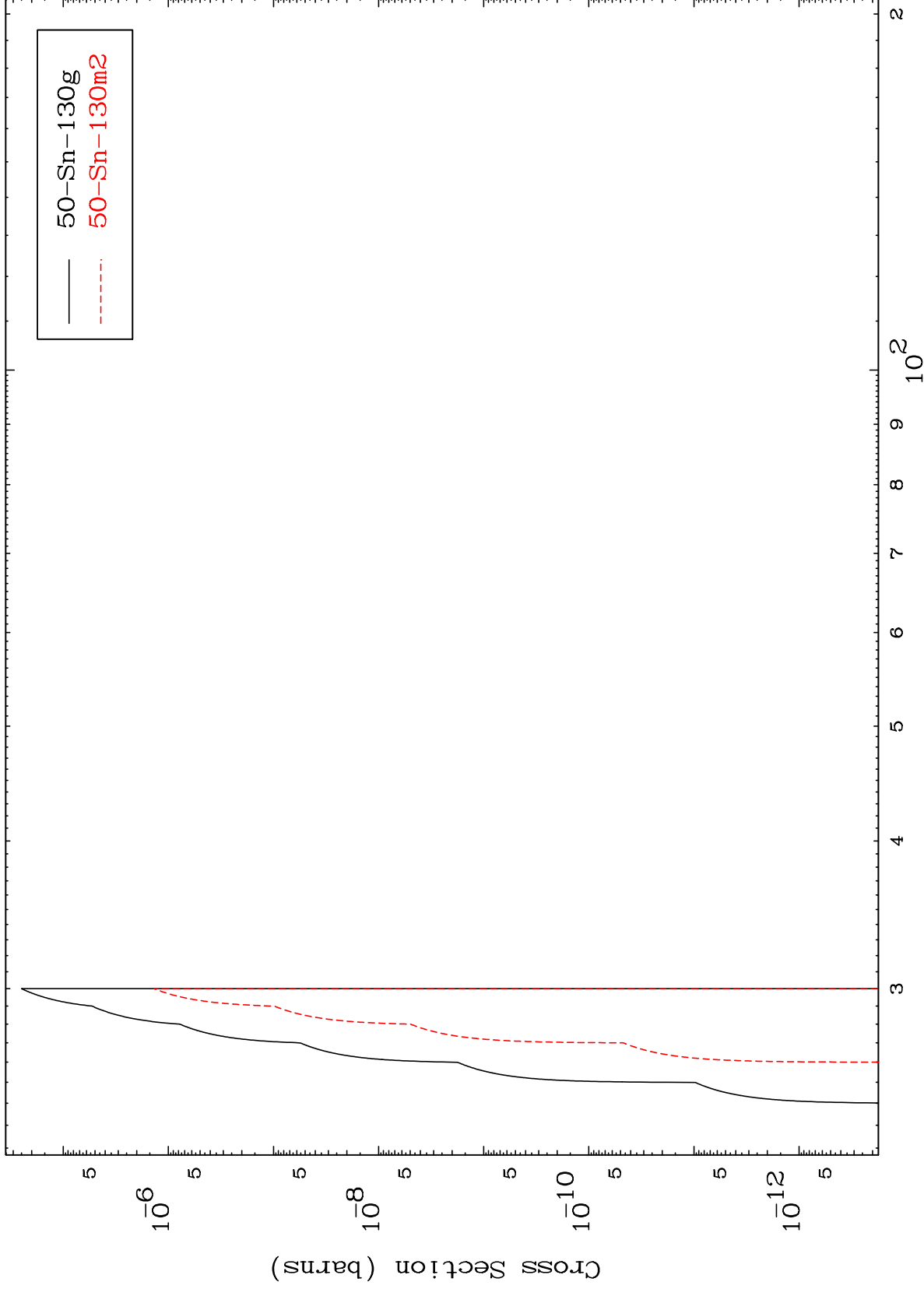
51-Sb-133



Radionuclide Production Cross Section



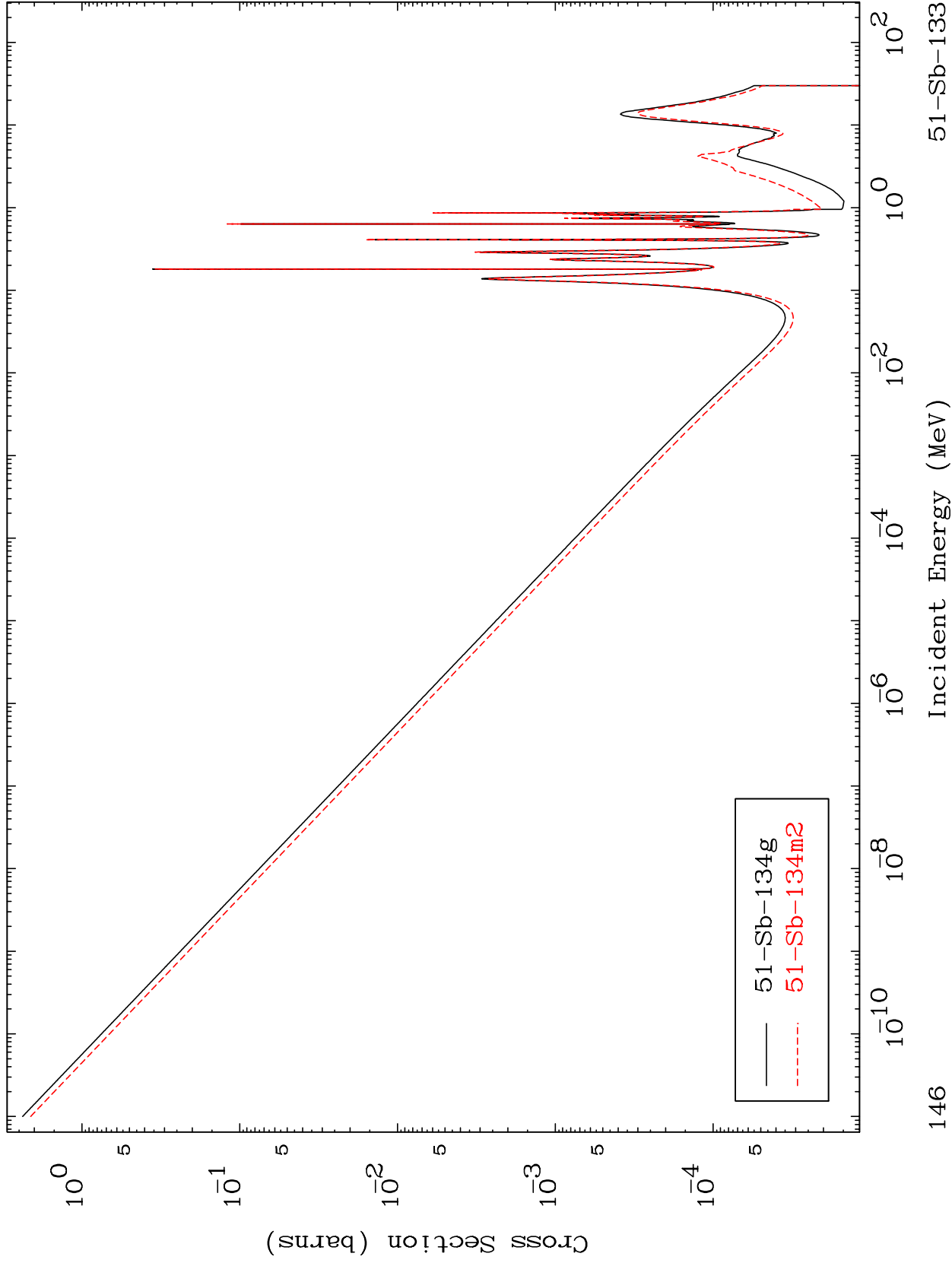
Radionuclide Production Cross Section



MAT 5161

51-Sb-133

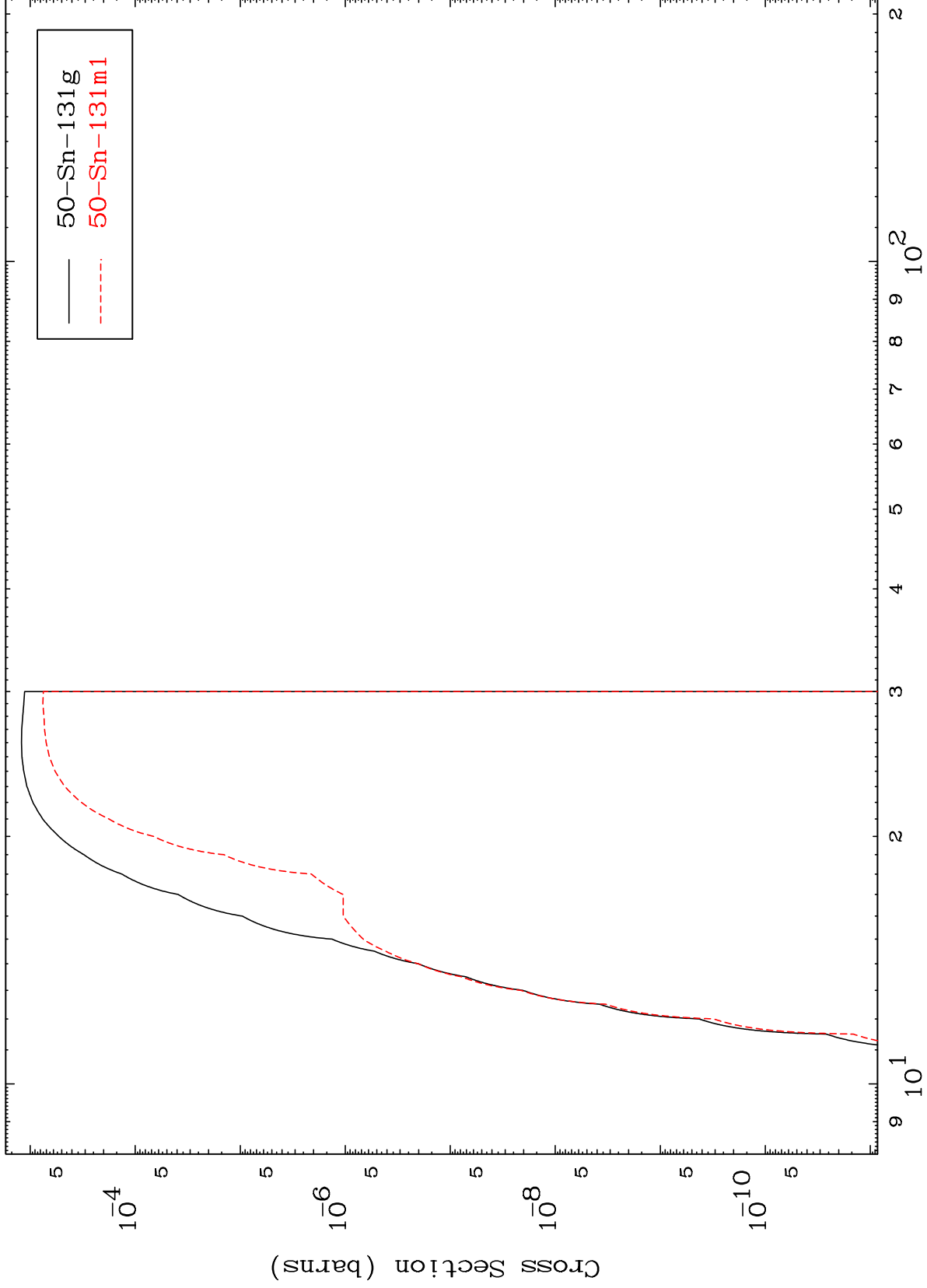
$(n, \gamma)$   
Radionuclide Production Cross Section



MAT 5161

51-Sb-133

(n,t)  
Radionuclide Production Cross Section

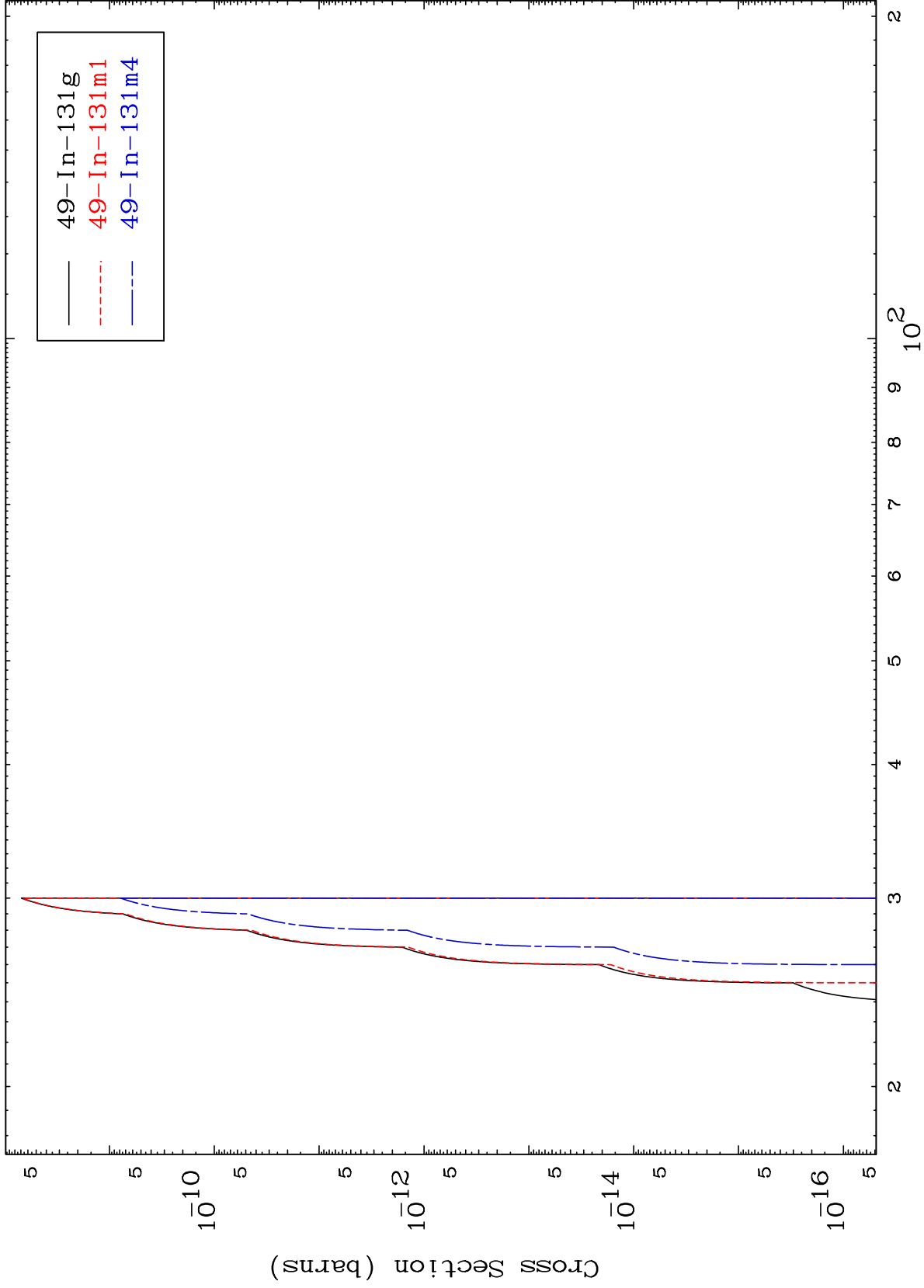


147

Incident Energy (MeV)

51-Sb-133

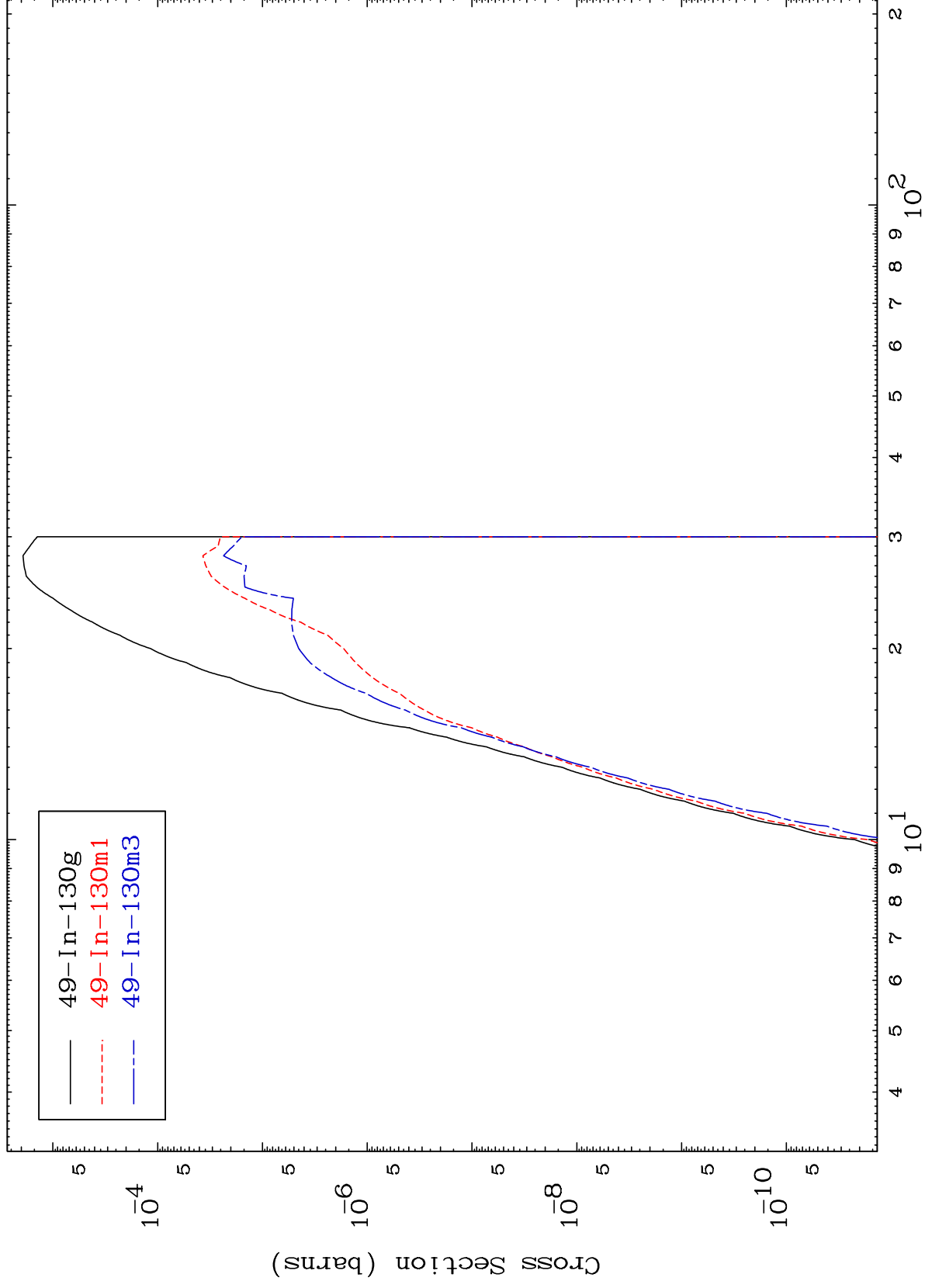
Radionuclide Production Cross Section



MAT 5161

51-Sb-133

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



149

Incident Energy (MeV)

51-Sb-133