

Program EVALPLOT  
(Version 2015-2)

by

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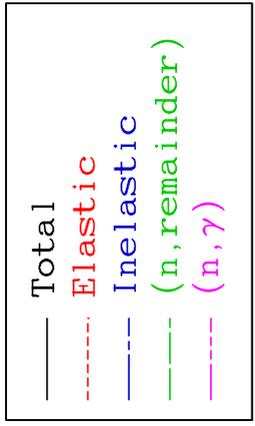
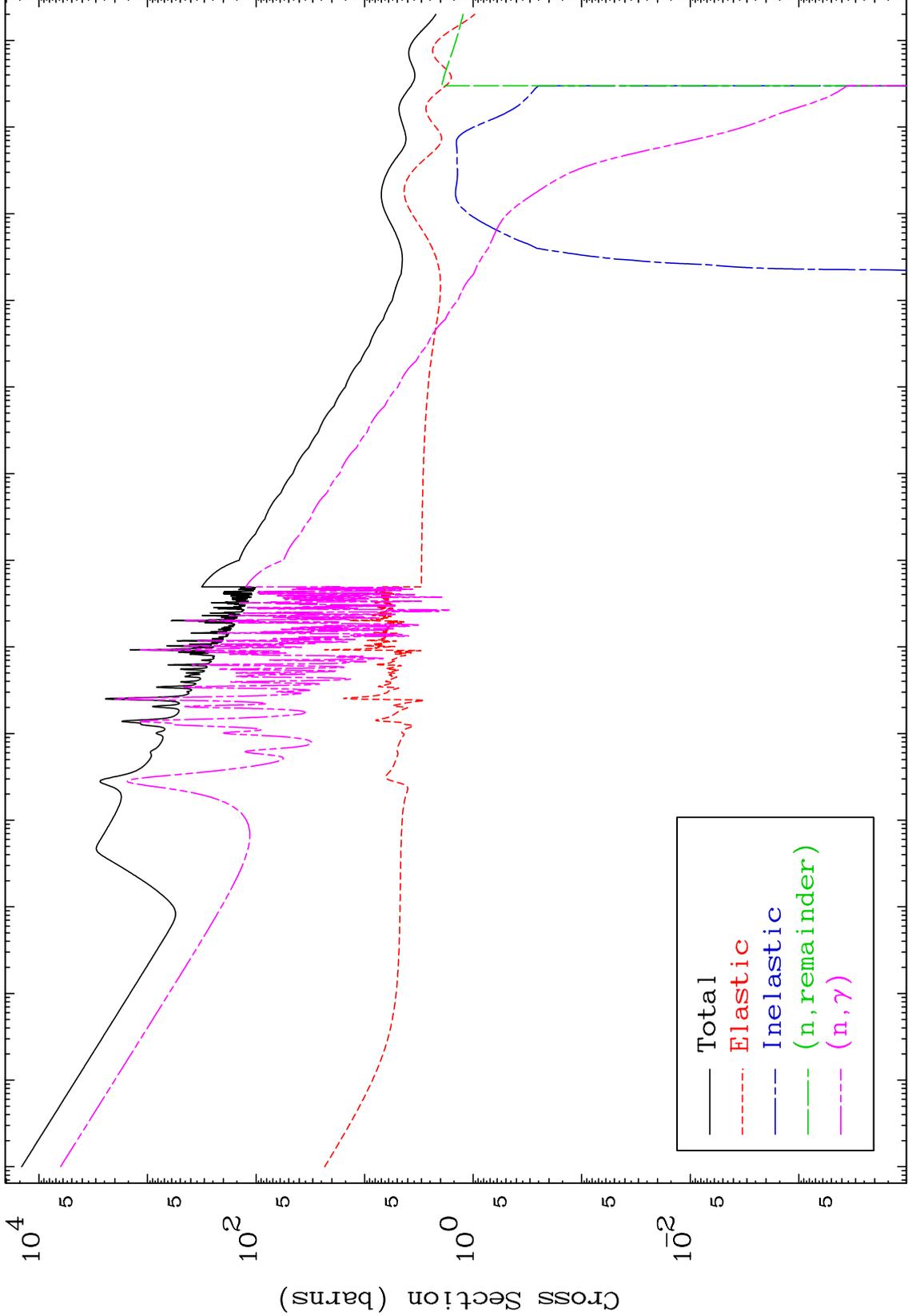
Press Mouse Button to Start

MAT 6116

Major

293 Kelvin Cross Sections

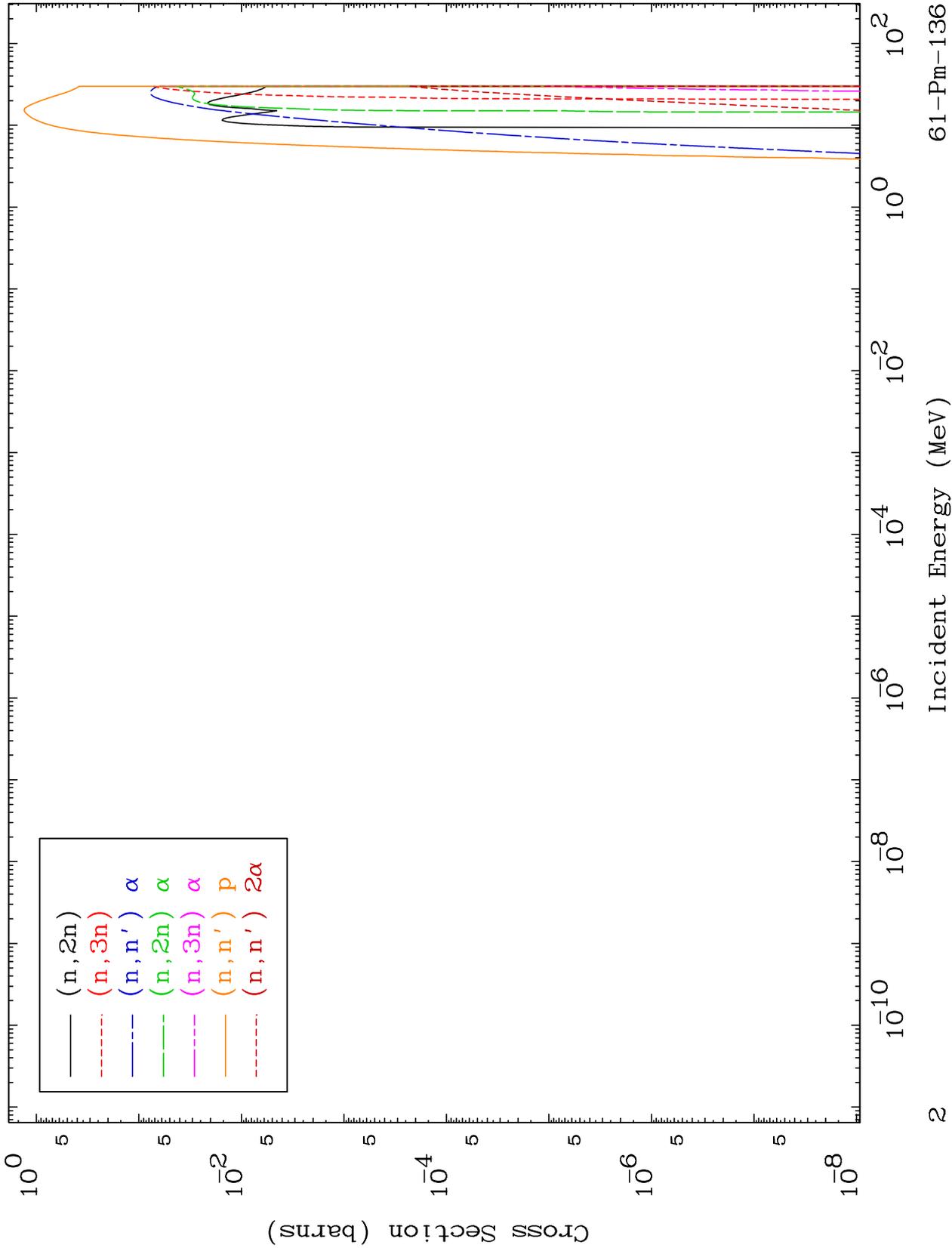
61-Pm-136

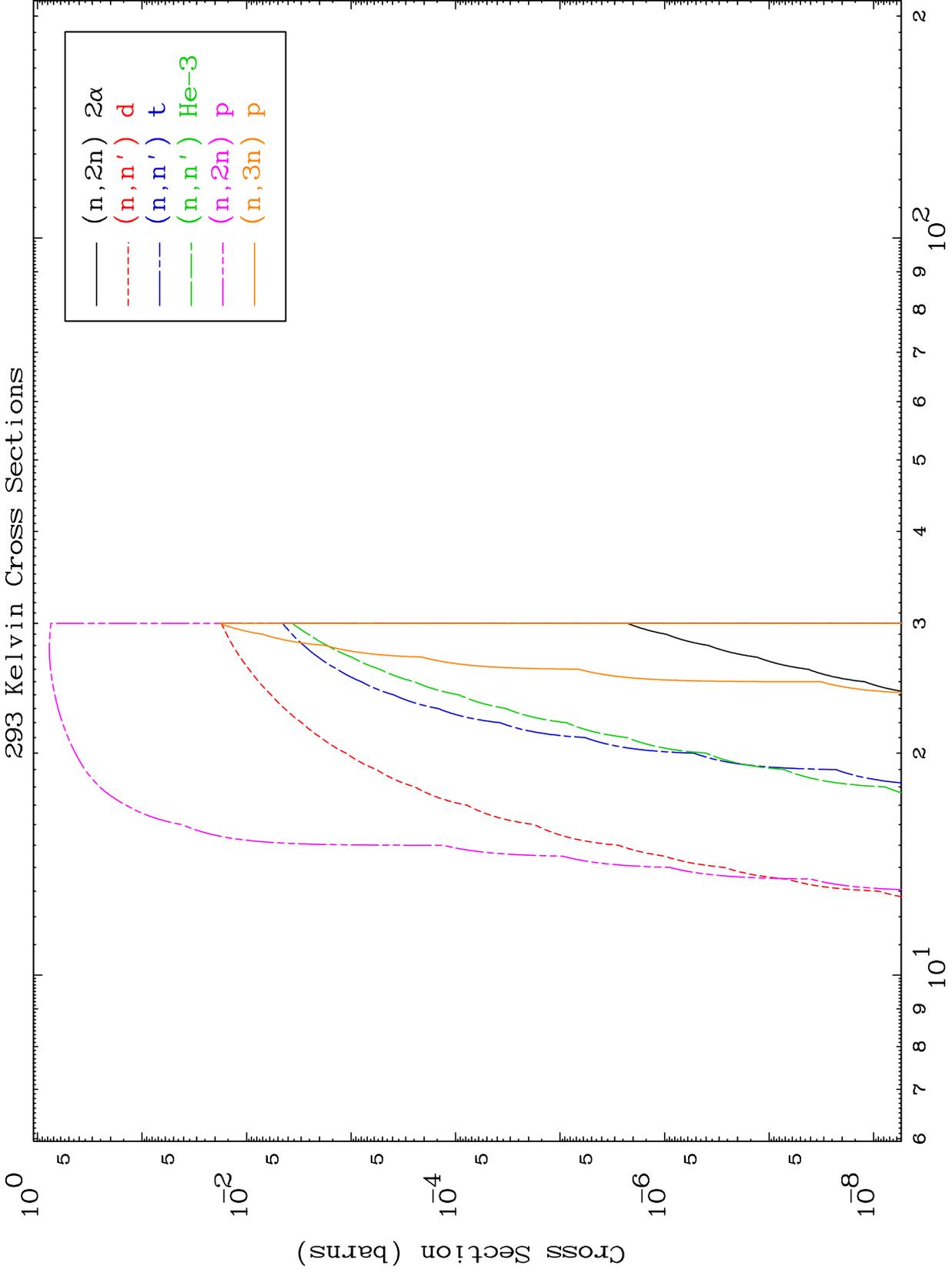


MAT 6116

Neutron Production  
293 Kelvin Cross Sections

61-Pm-136

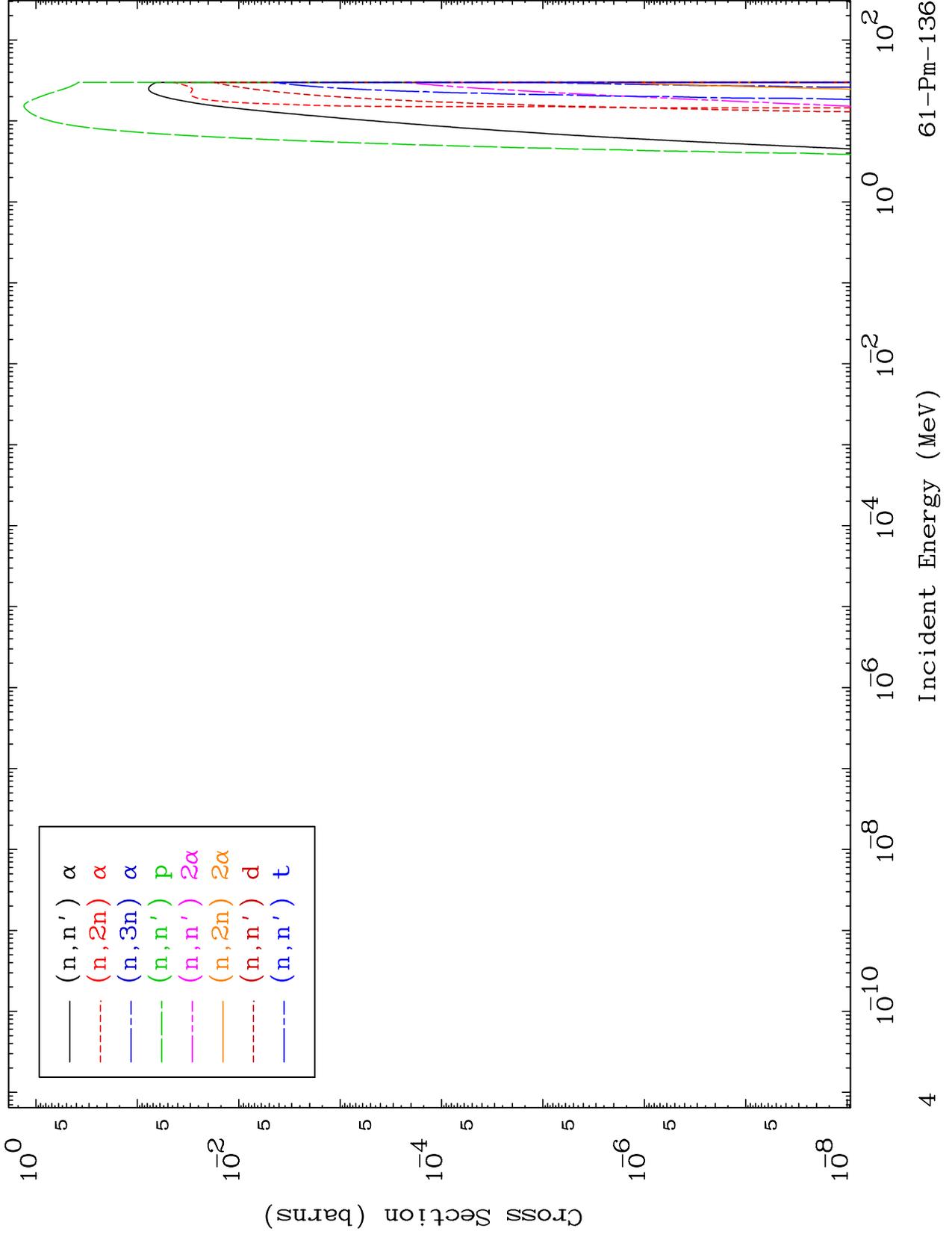


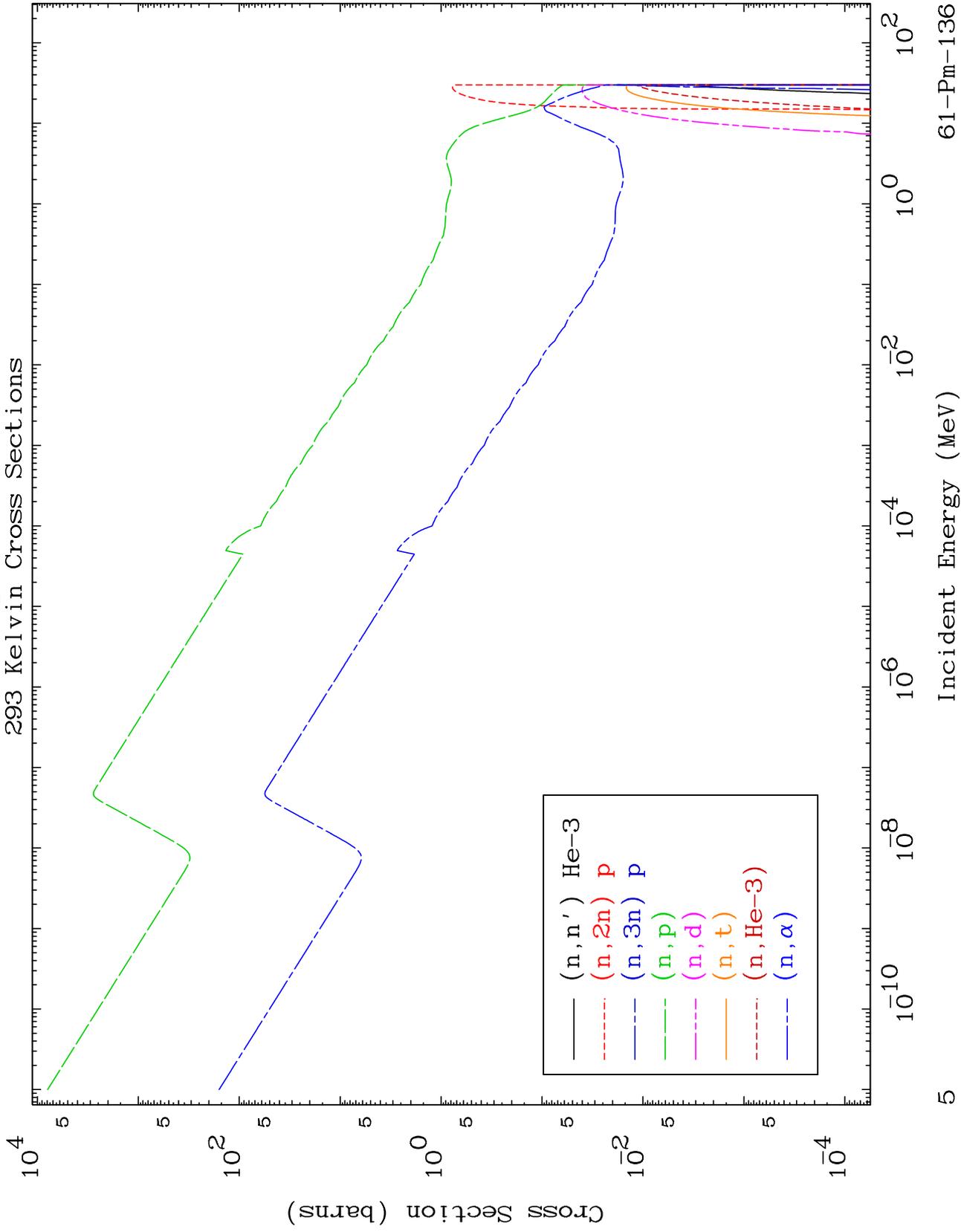


MAT 6116

Charged Particle  
293 Kelvin Cross Sections

61-Pm-136

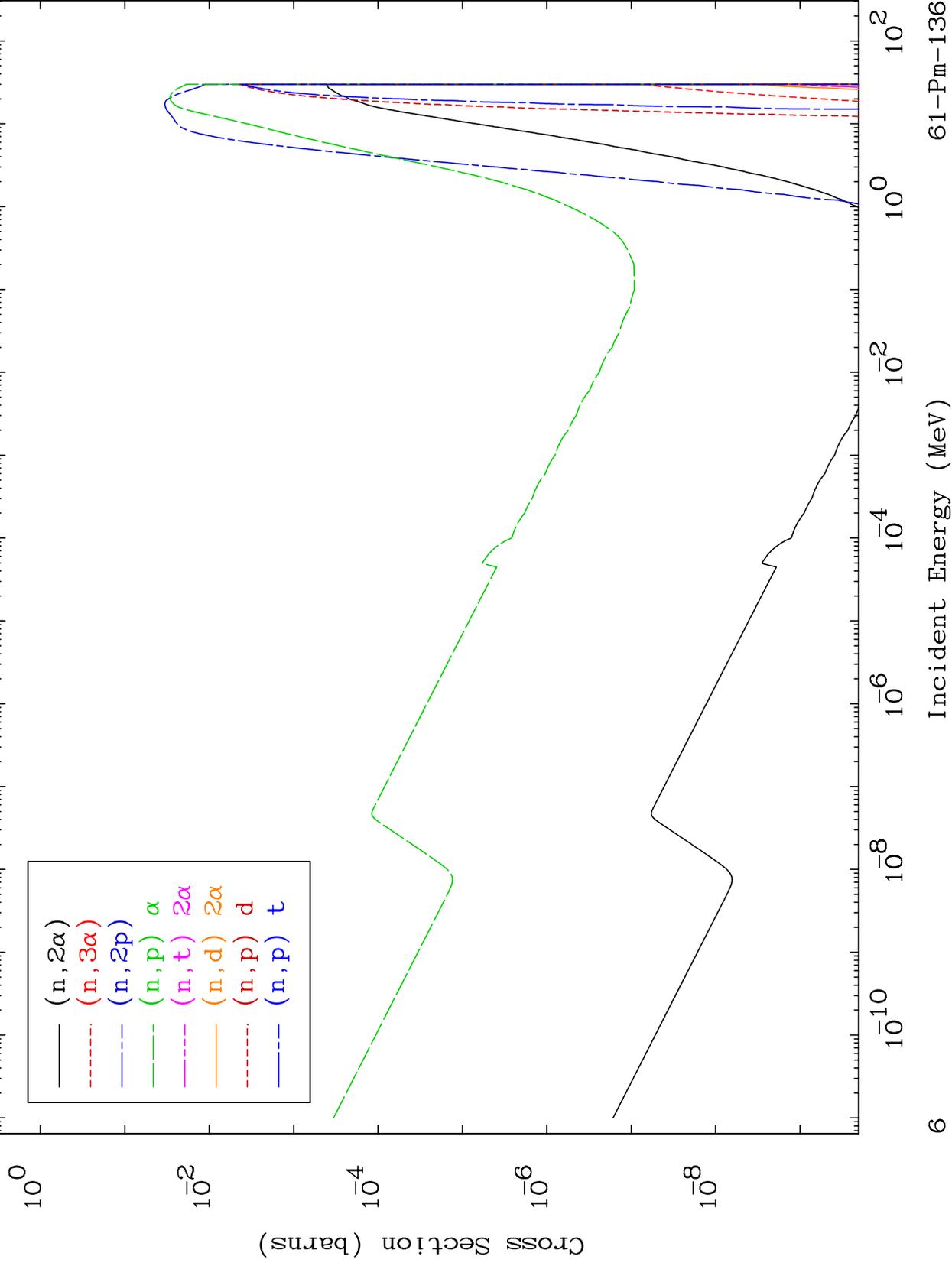




MAT 6116

Charged Particle  
293 Kelvin Cross Sections

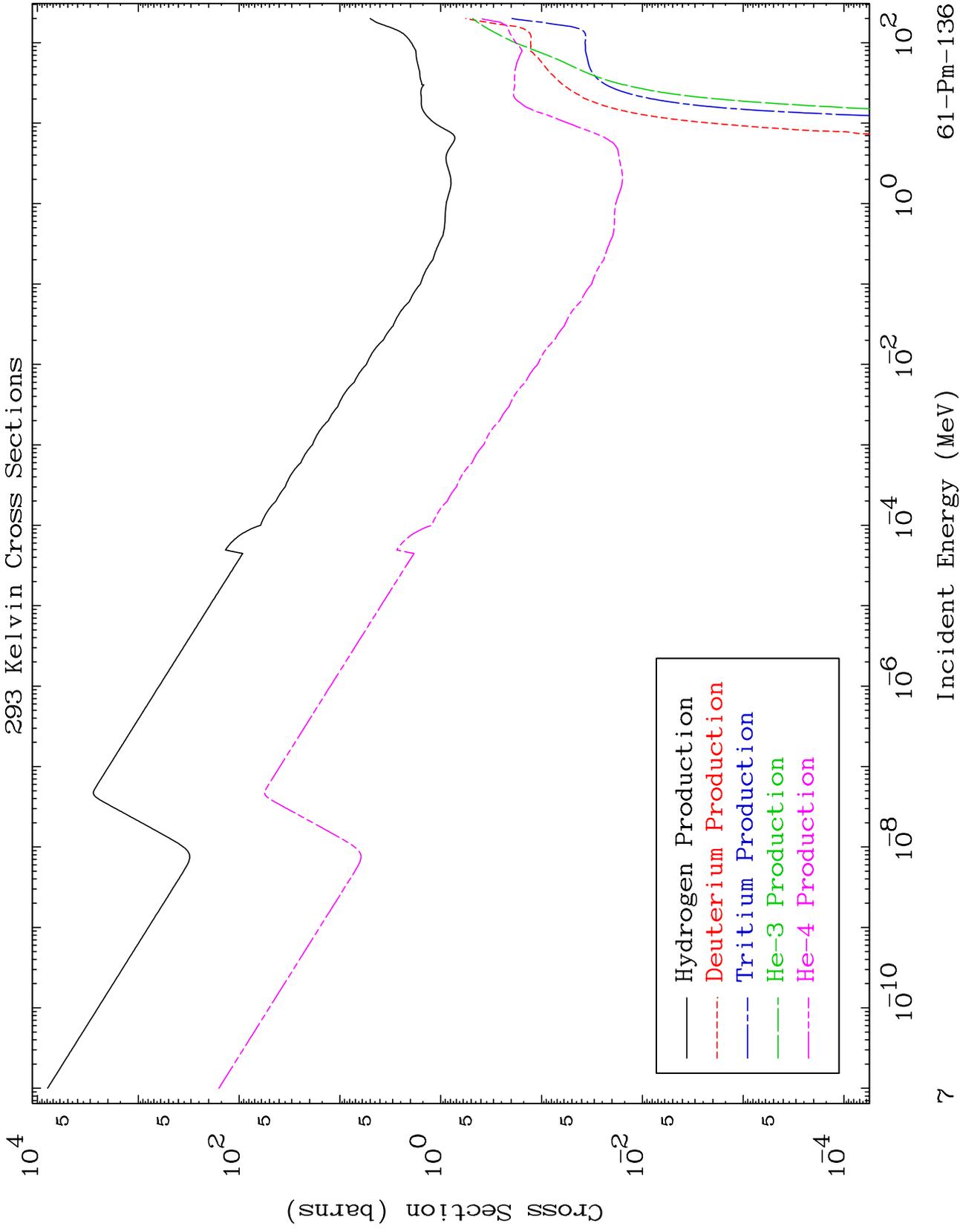
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MAT 6116

Particle Production  
293 Kelvin Cross Sections

61-Pm-136

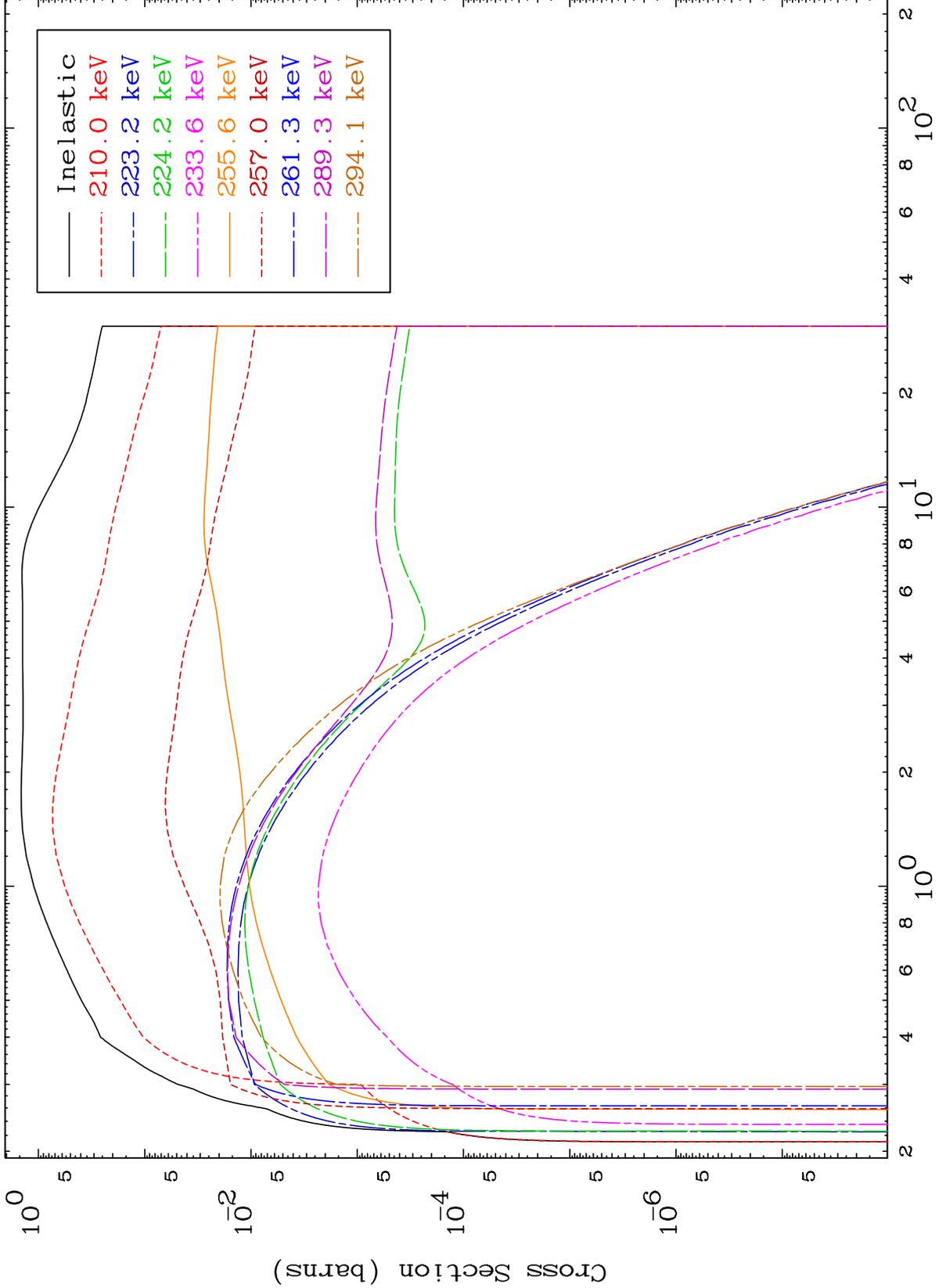


MAT 6116

(n,n') Level

61-Pm-136

293 Kelvin Cross Sections



8

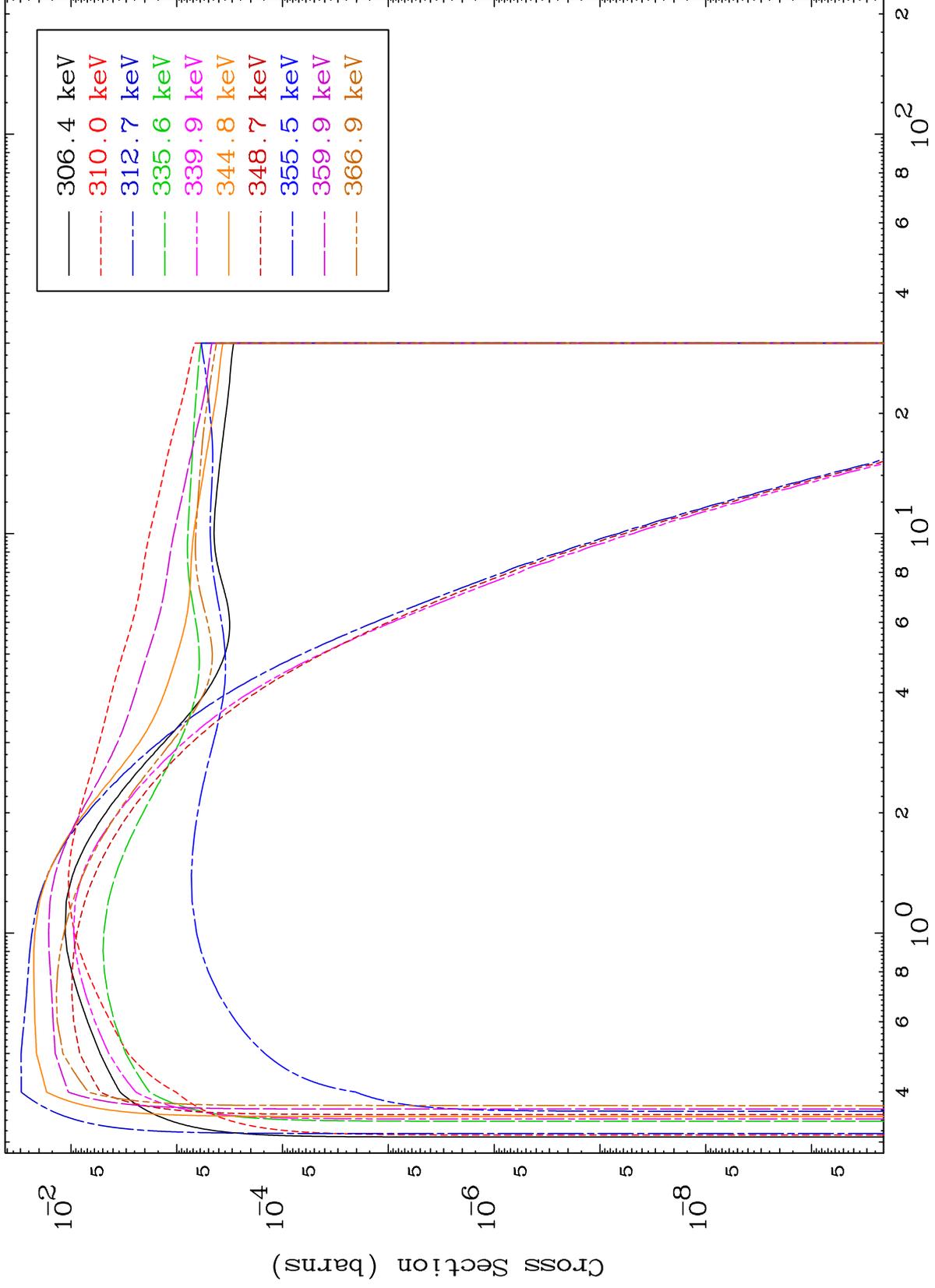
Incident Energy (MeV)

61-Pm-136

MAT 6116

(n,n') Level  
293 Kelvin Cross Sections

61-Pm-136



9

Incident Energy (MeV)

61-Pm-136

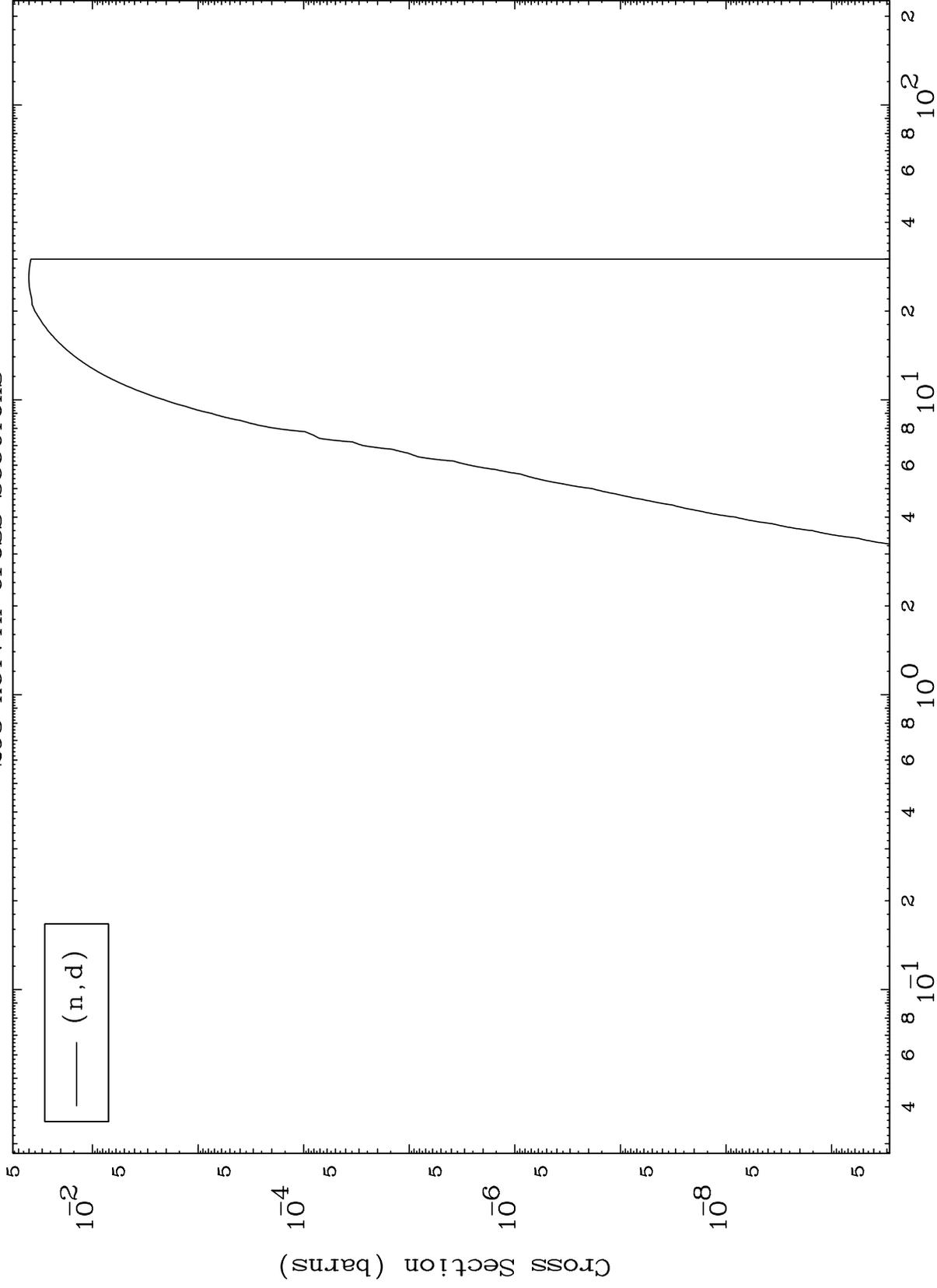




MAT 6116

(n,d) Levels  
293 Kelvin Cross Sections

61-Pm-136



12

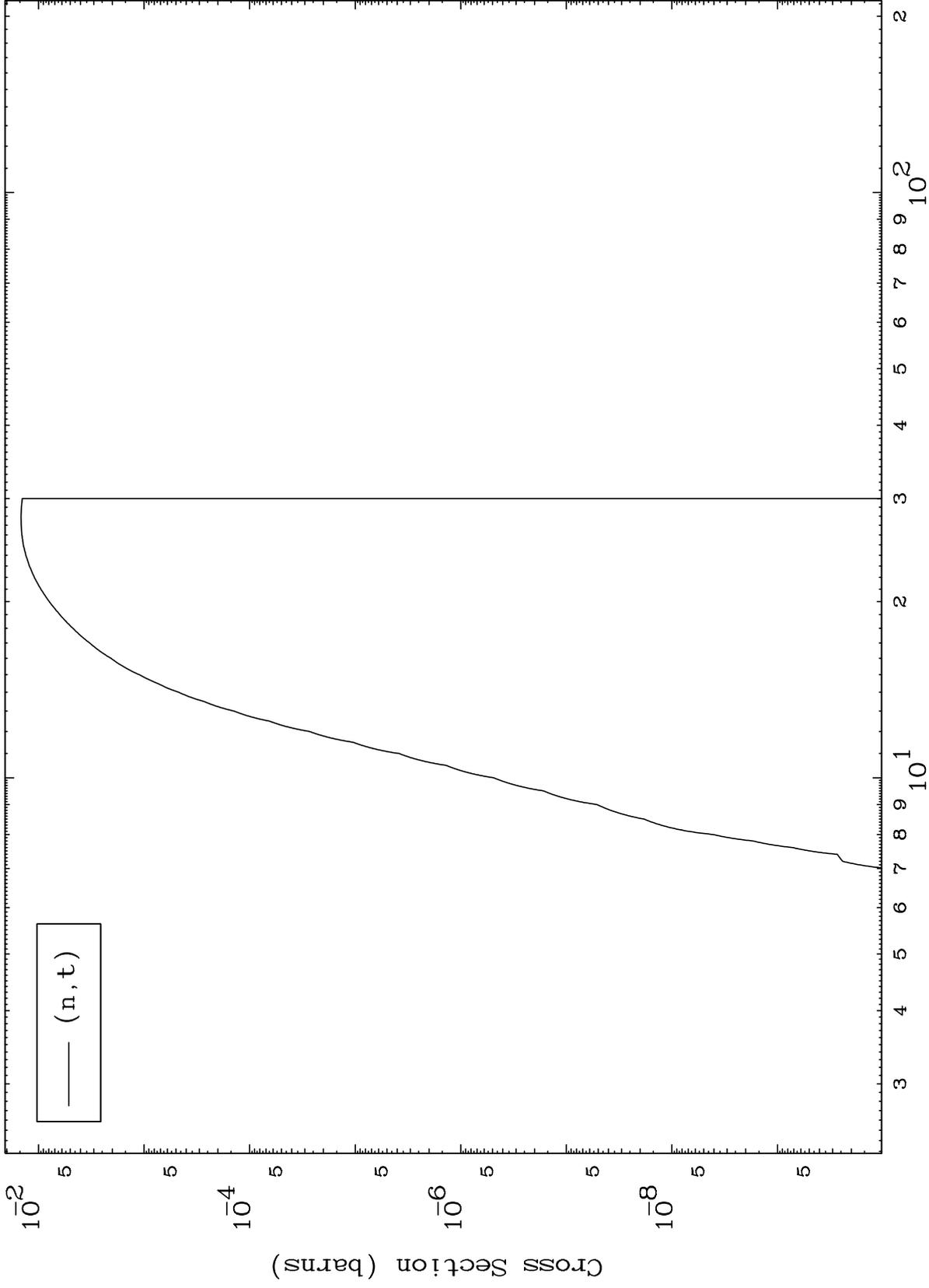
Incident Energy (MeV)

61-Pm-136

MAT 6116

(n,t) Levels  
293 Kelvin Cross Sections

61-Pm-136



13

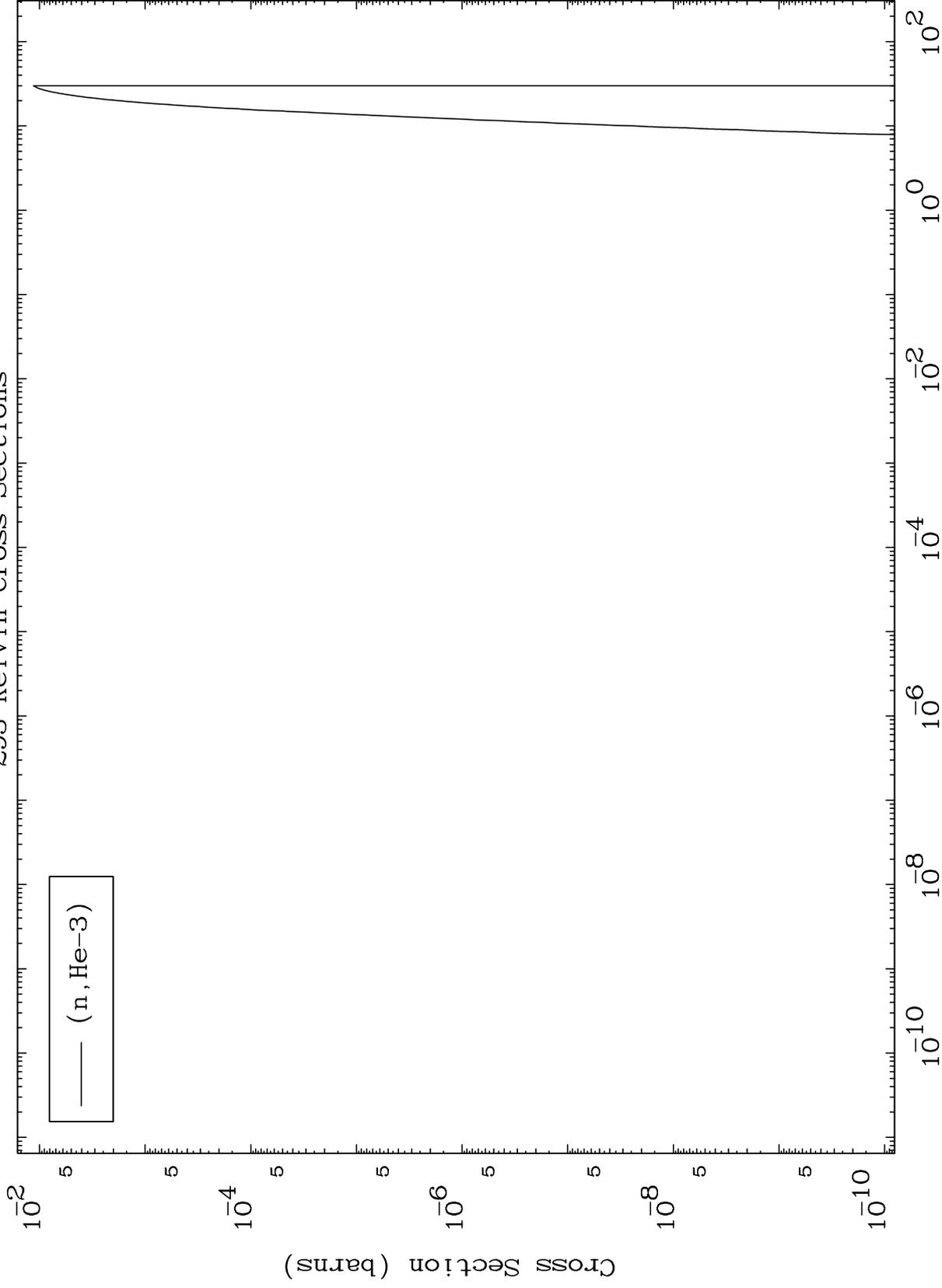
Incident Energy (MeV)

61-Pm-136

MAT 6116

(n,He3) Levels  
293 Kelvin Cross Sections

61-Pm-136



14

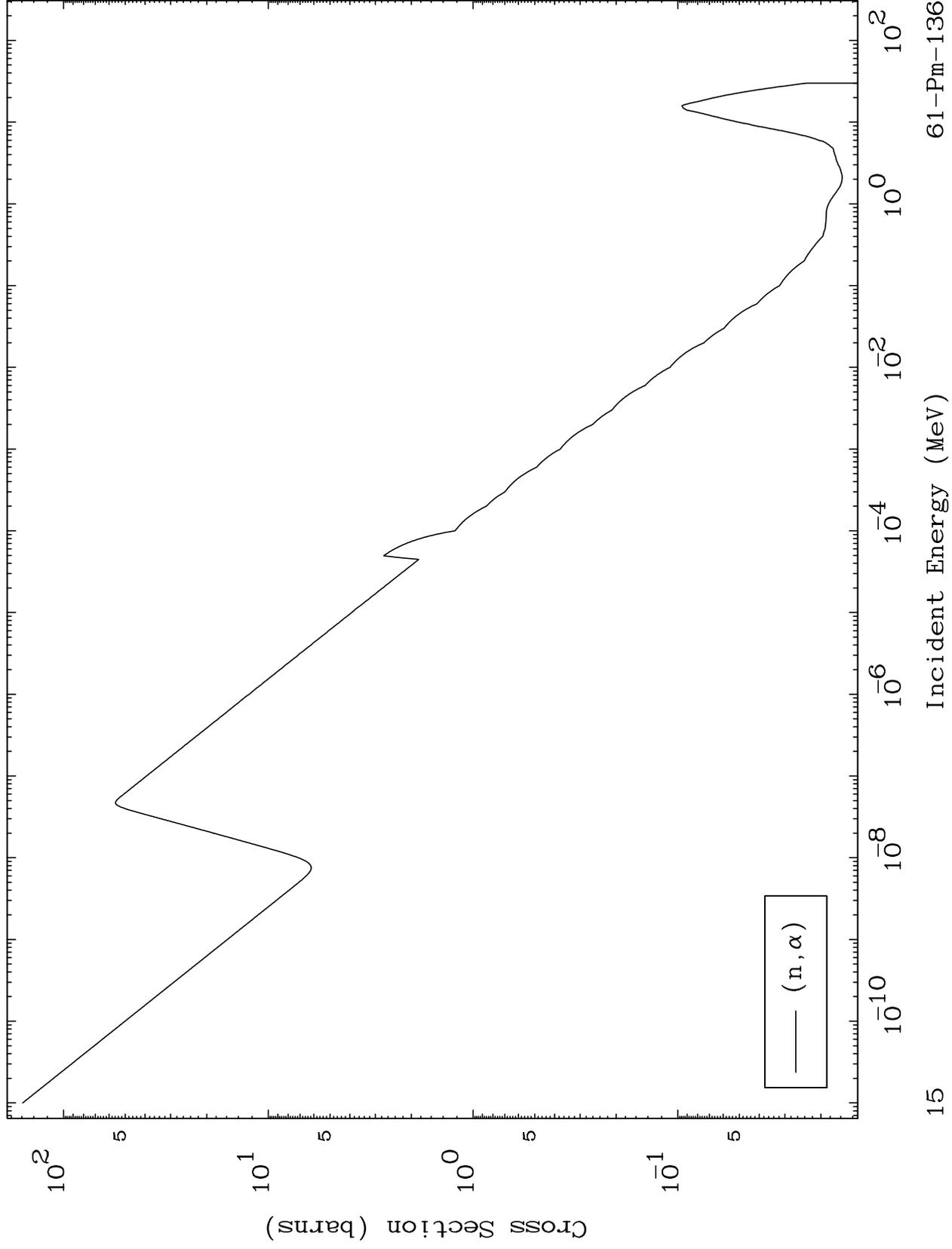
Incident Energy (MeV)

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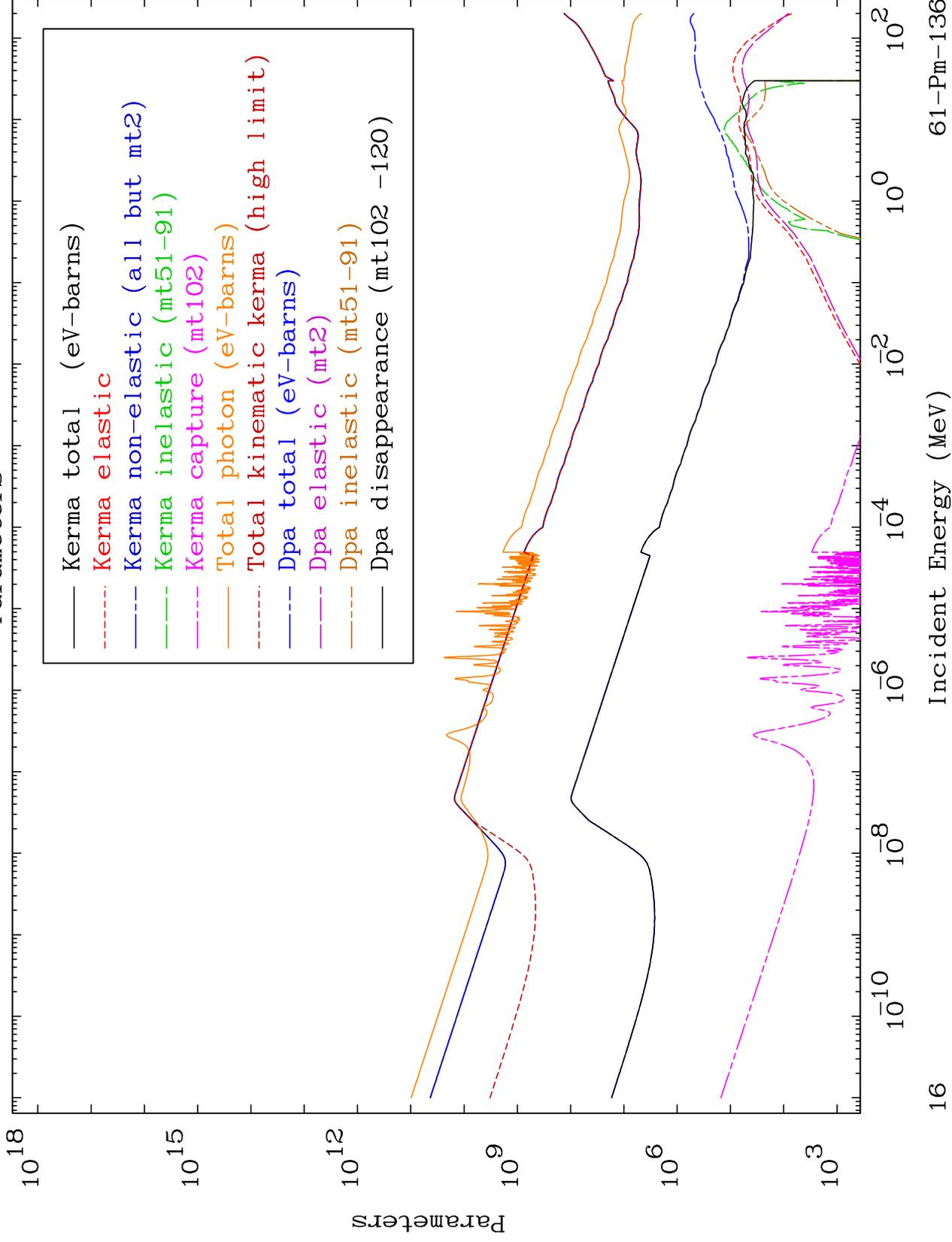
MAT 61116

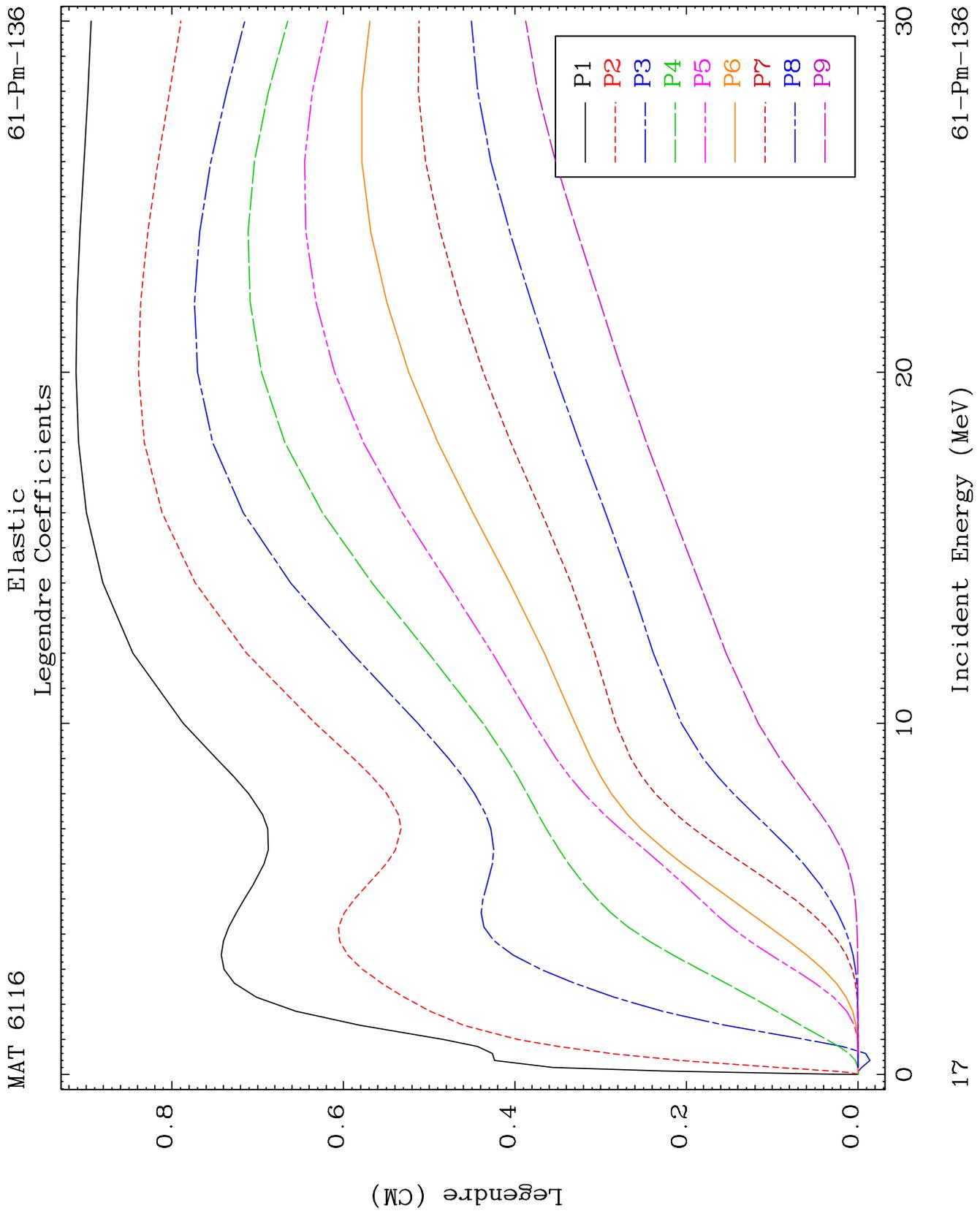
(n,α) Levels  
293 Kelvin Cross Sections

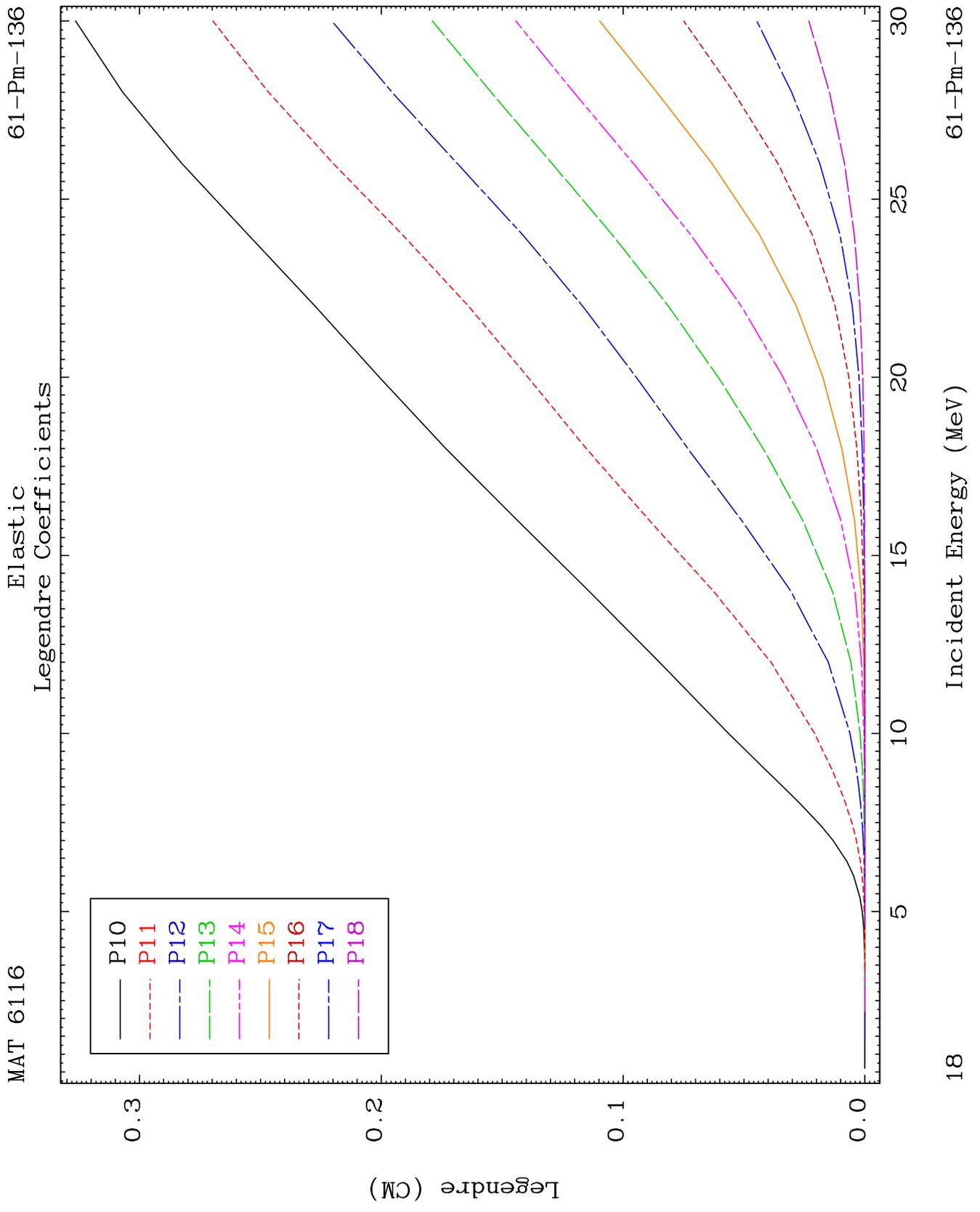
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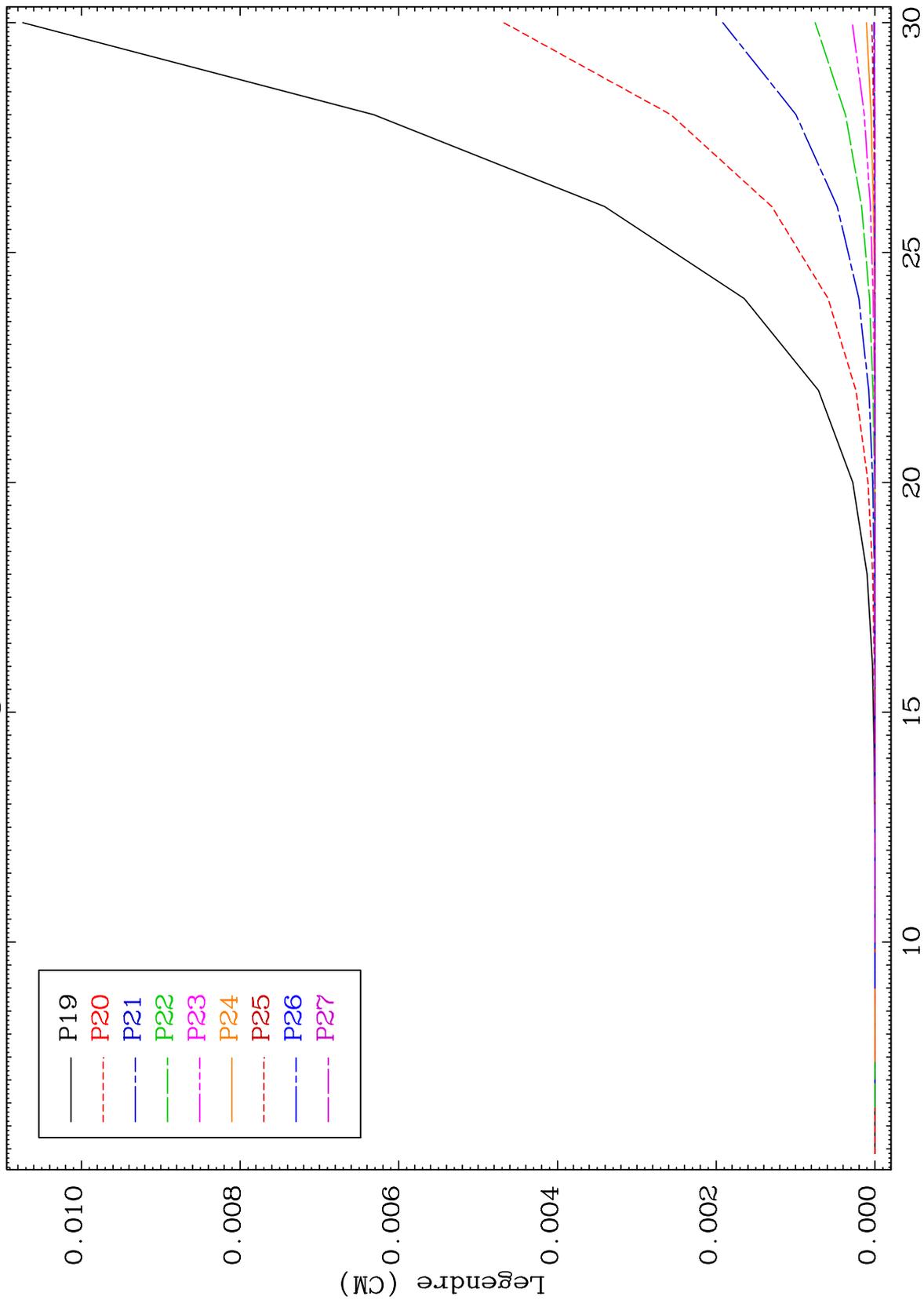




MAT 6116

### Elastic Legendre Coefficients

61-Pm-136



19

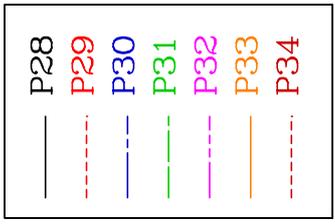
Incident Energy (MeV)

61-Pm-136

MAT 6116

Elastic  
Legendre Coefficients

61-Pm-136



$\times 10^{-6}$

1.0

0.8

0.6

0.4

0.2

0.0

Legendre (CM)

15

20

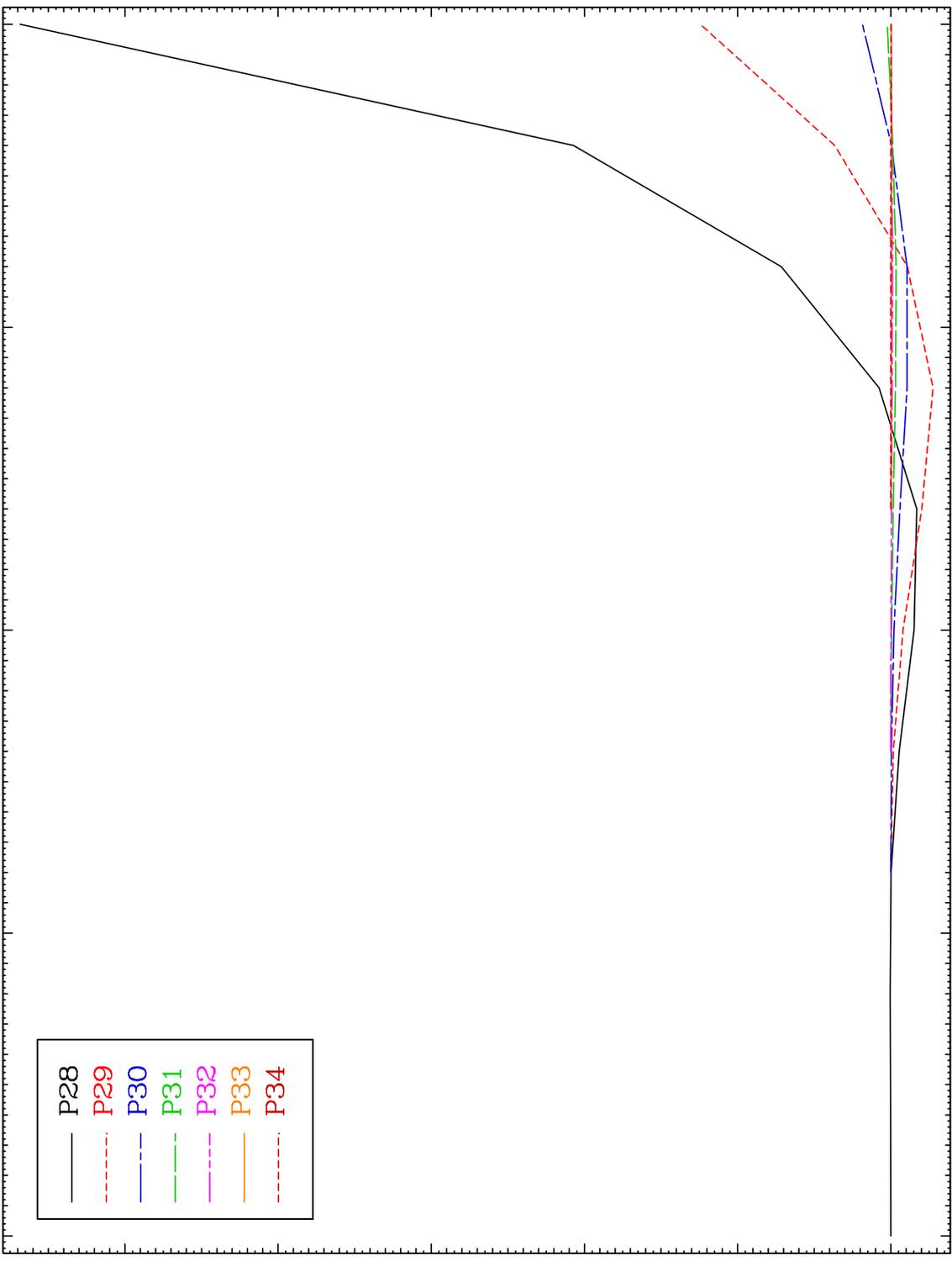
25

30

20

Incident Energy (MeV)

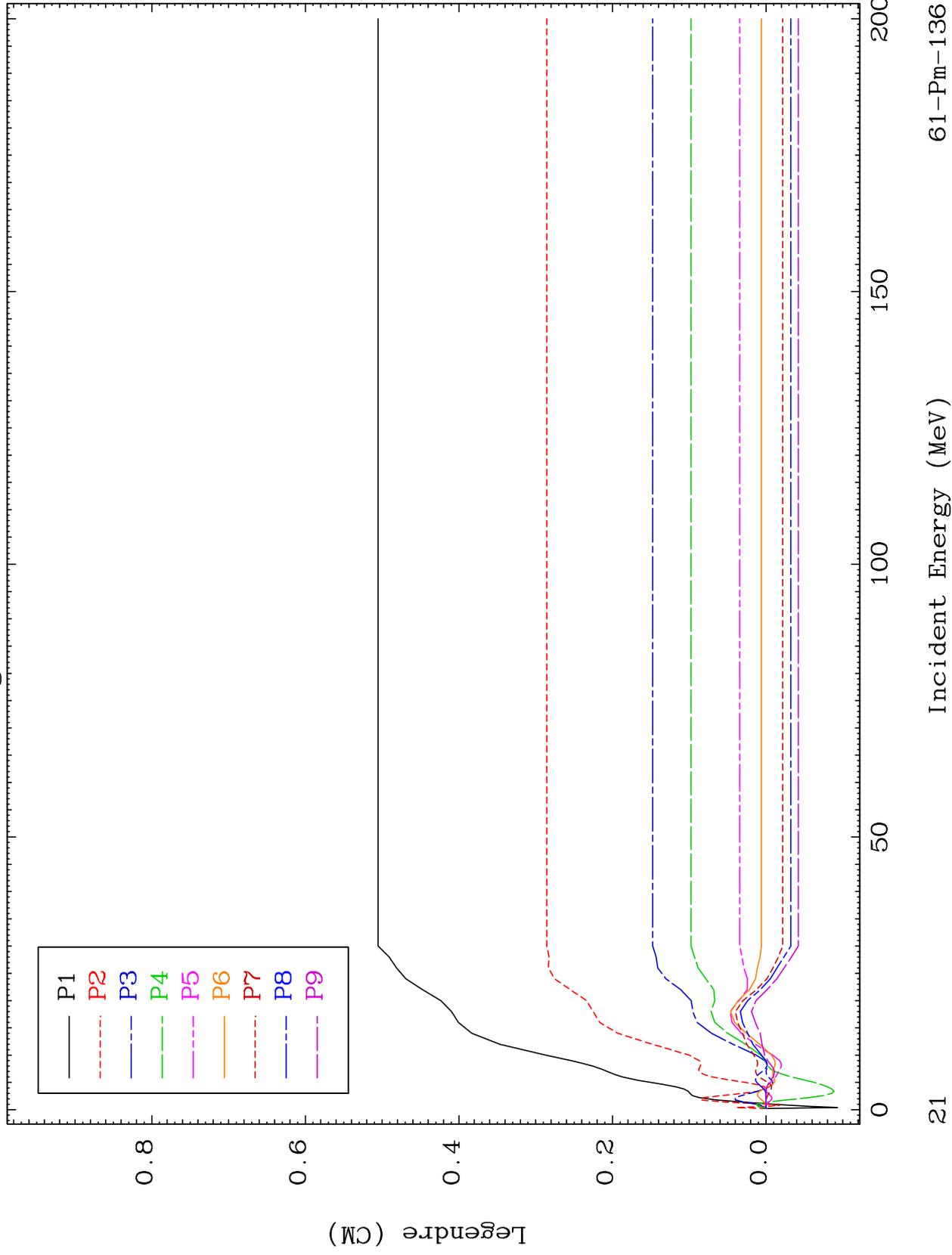
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MAT 6116

210.0 keV (n,n') Level  
Legendre Coefficients

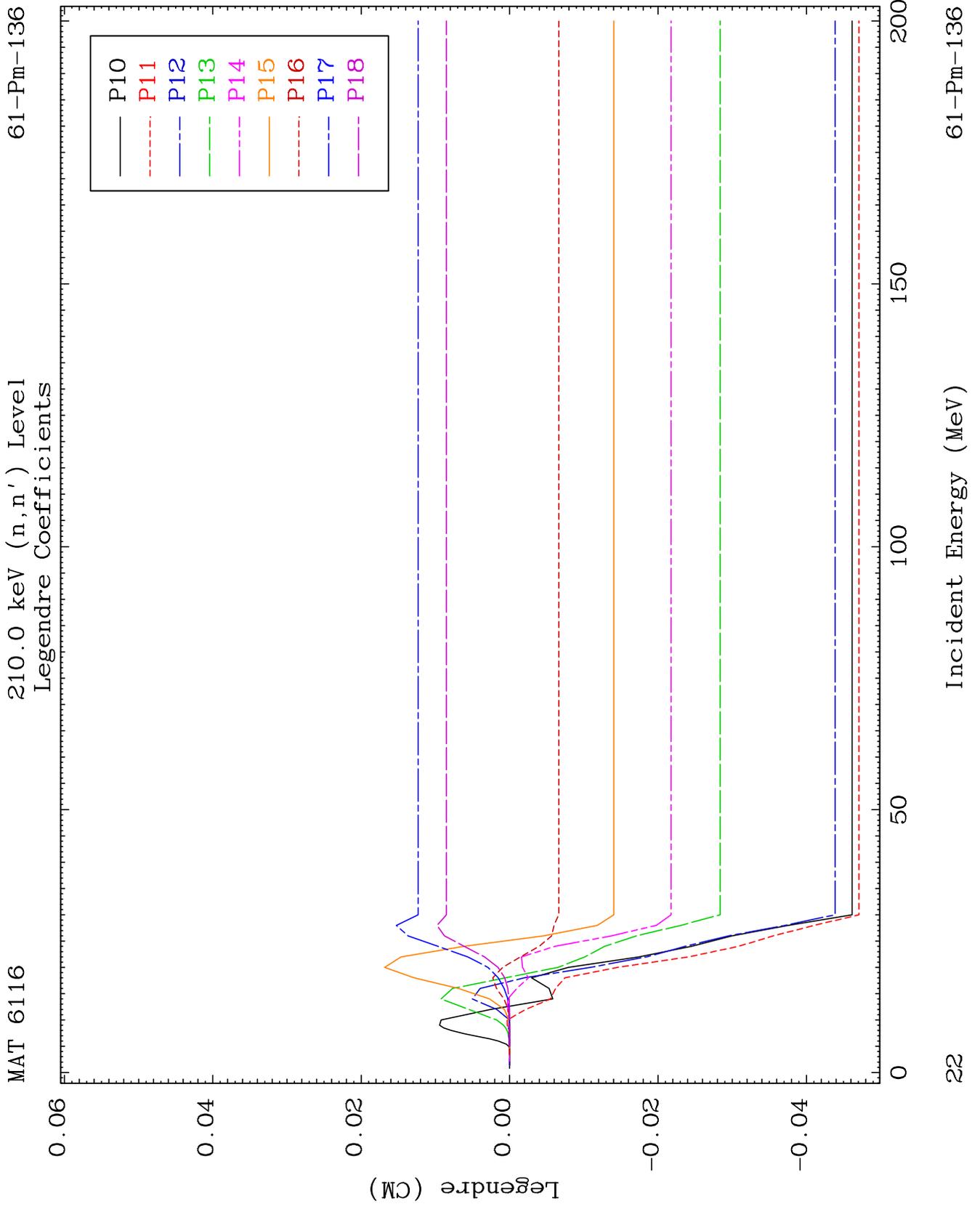
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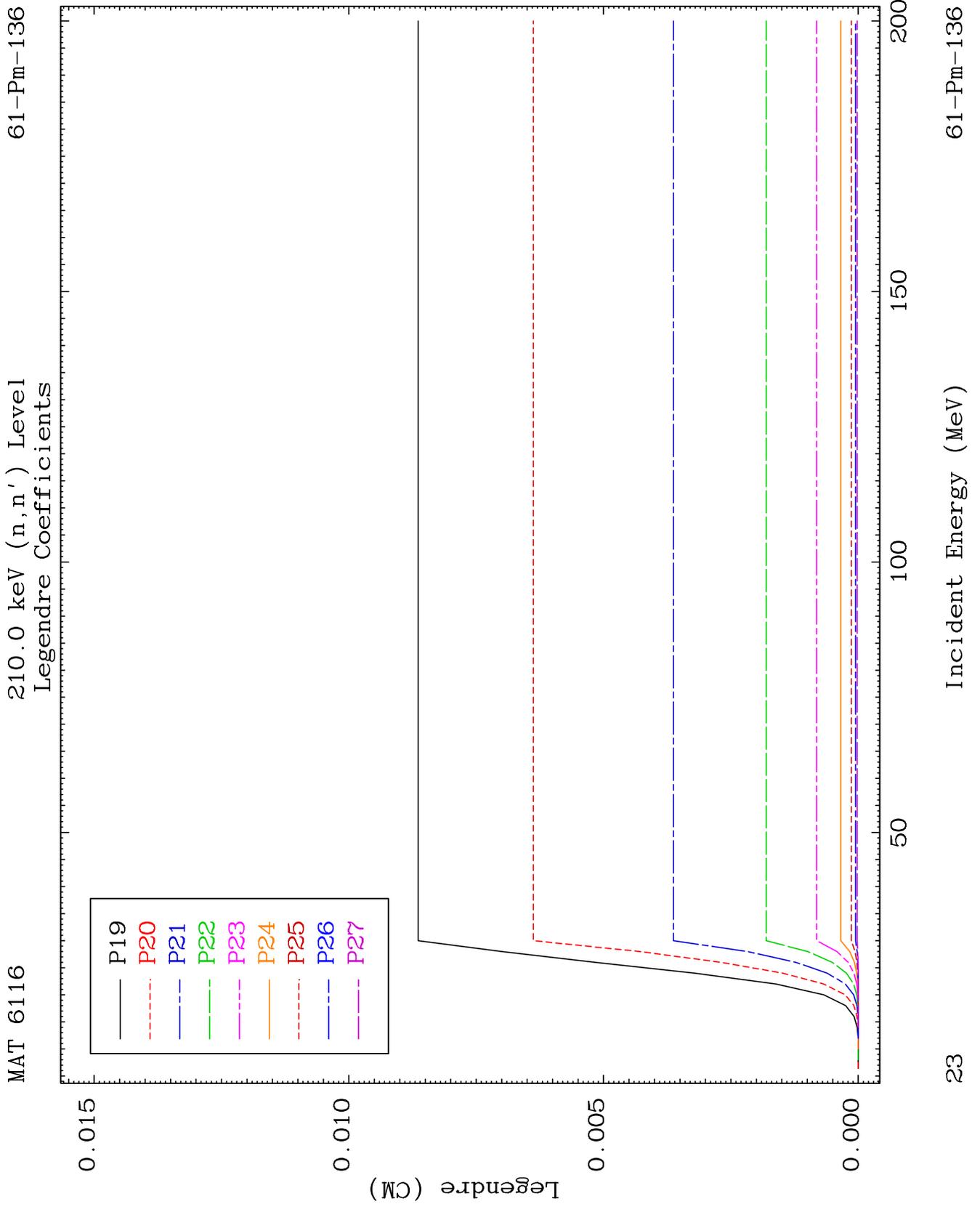


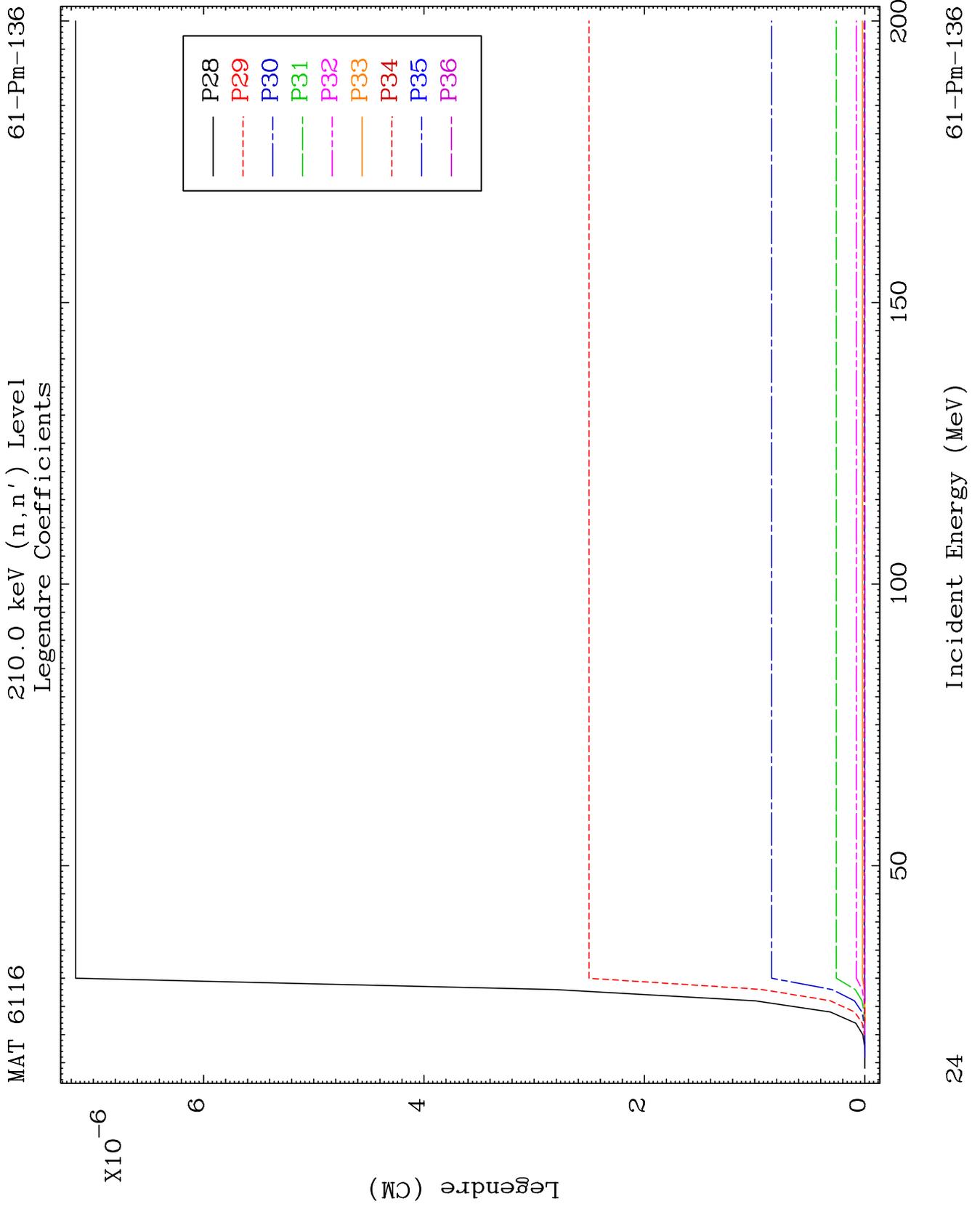
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Incident Energy (MeV)

21





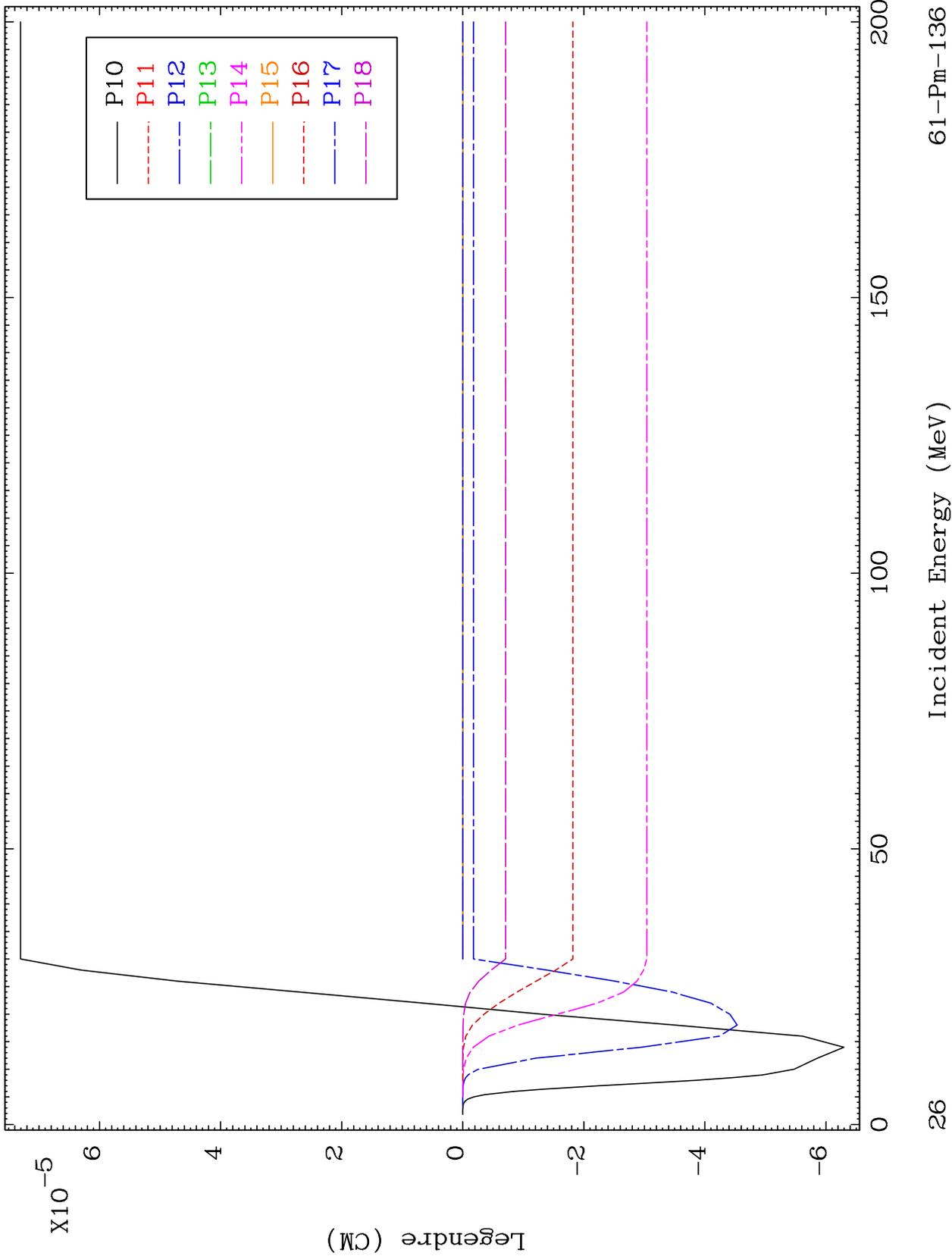




MAT 6116

223.2 keV (n,n') Level  
Legendre Coefficients

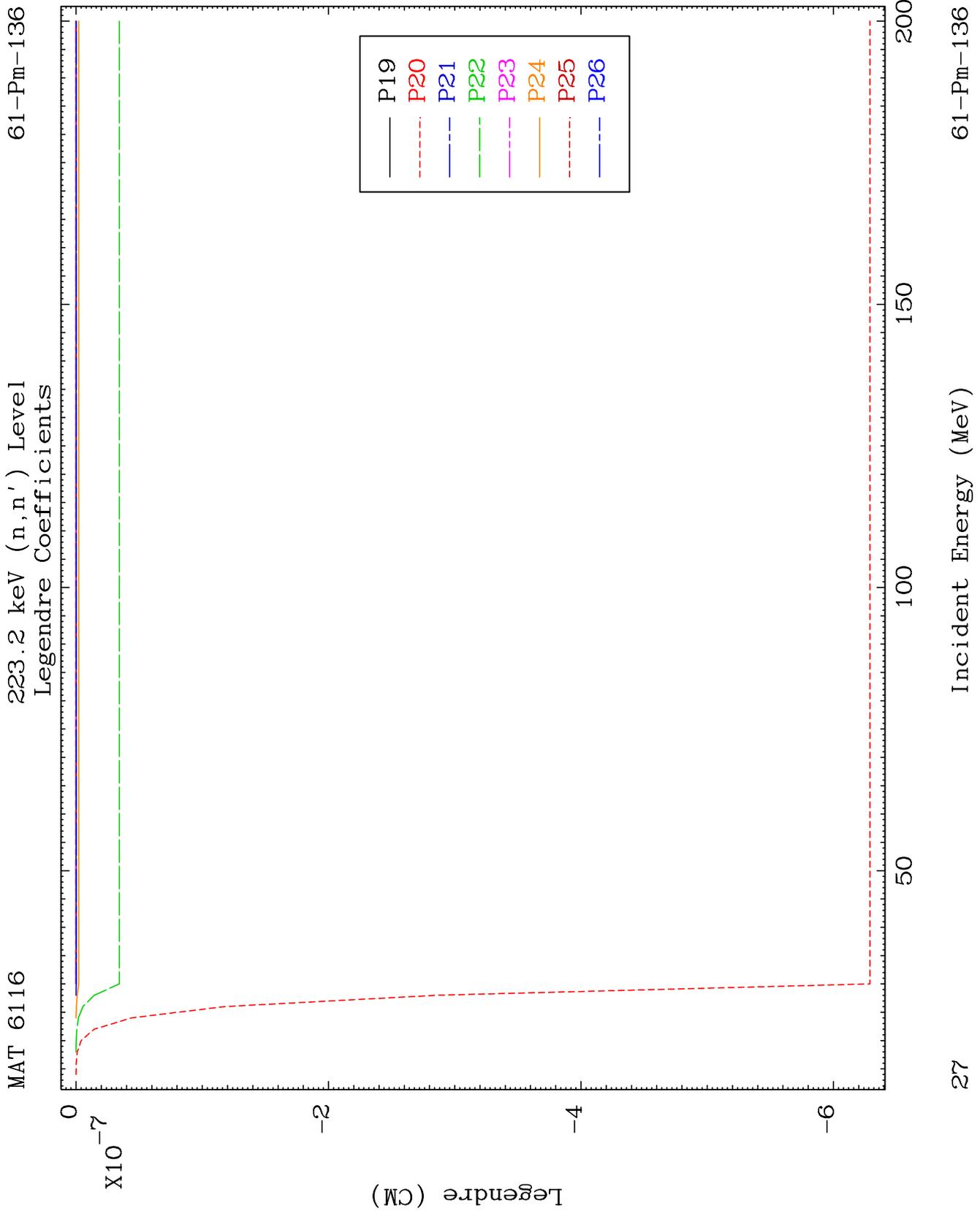
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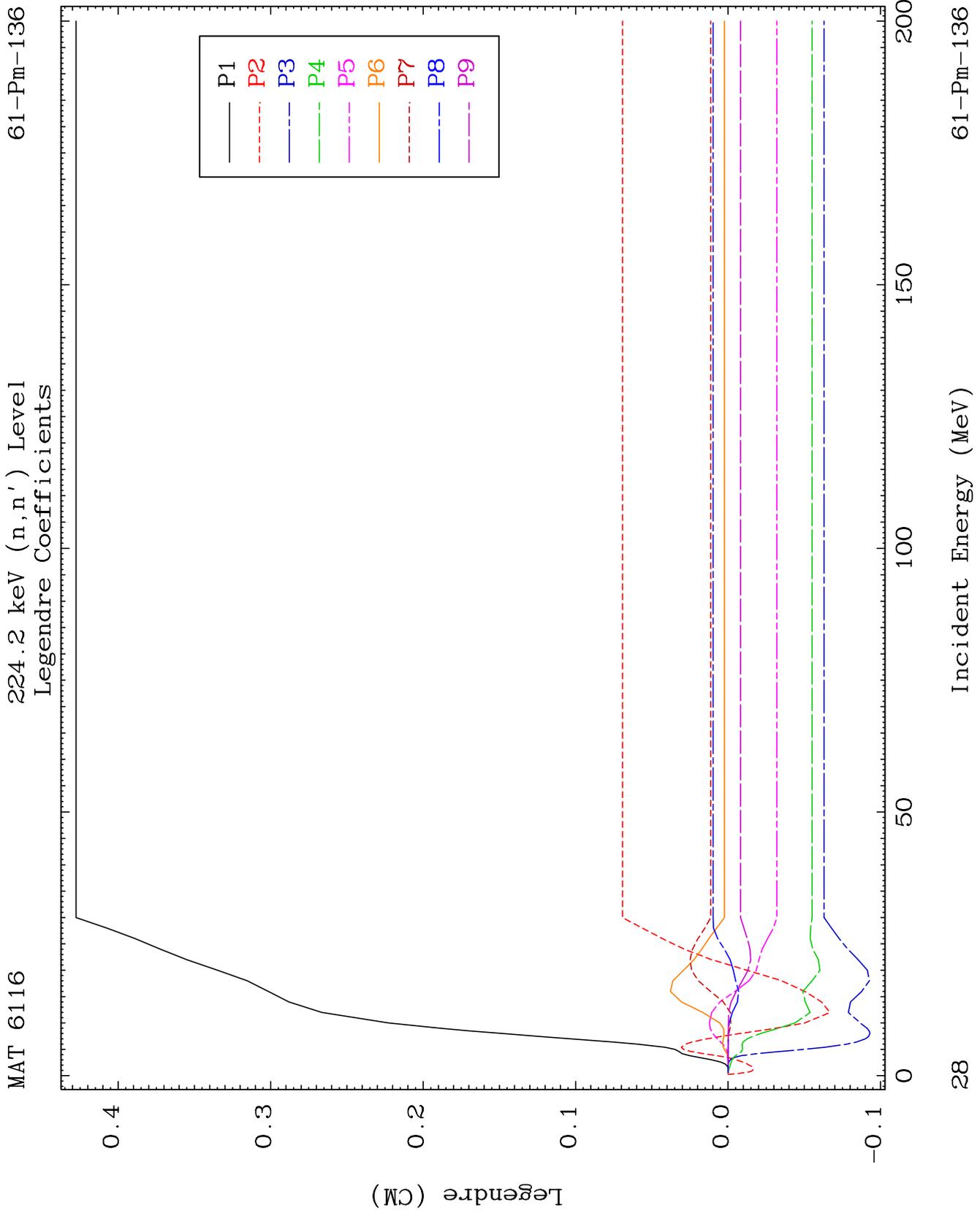


26

Incident Energy (MeV)

61-Pm-136

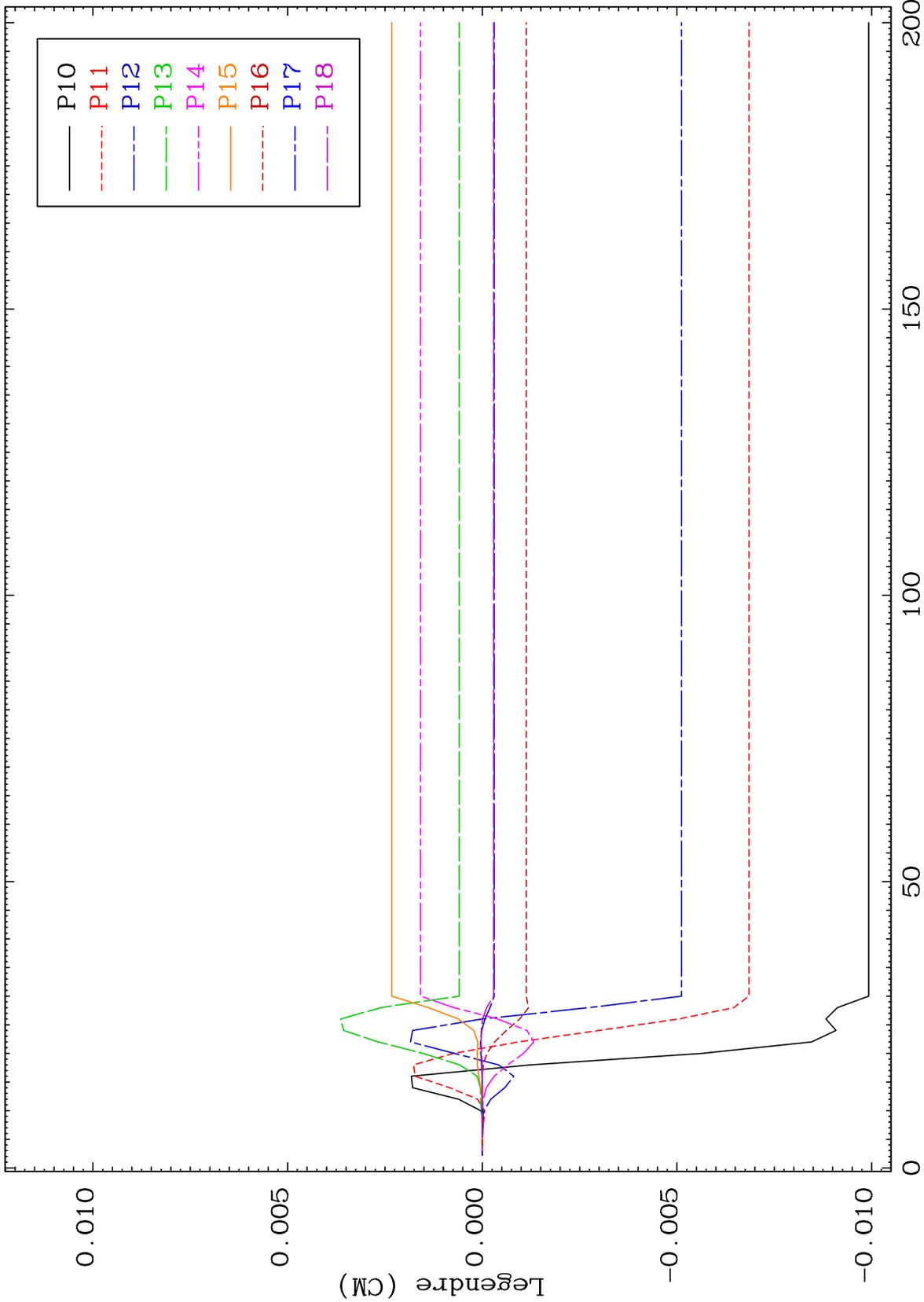




MAT 6116

224.2 keV (n,n') Level  
Legendre Coefficients

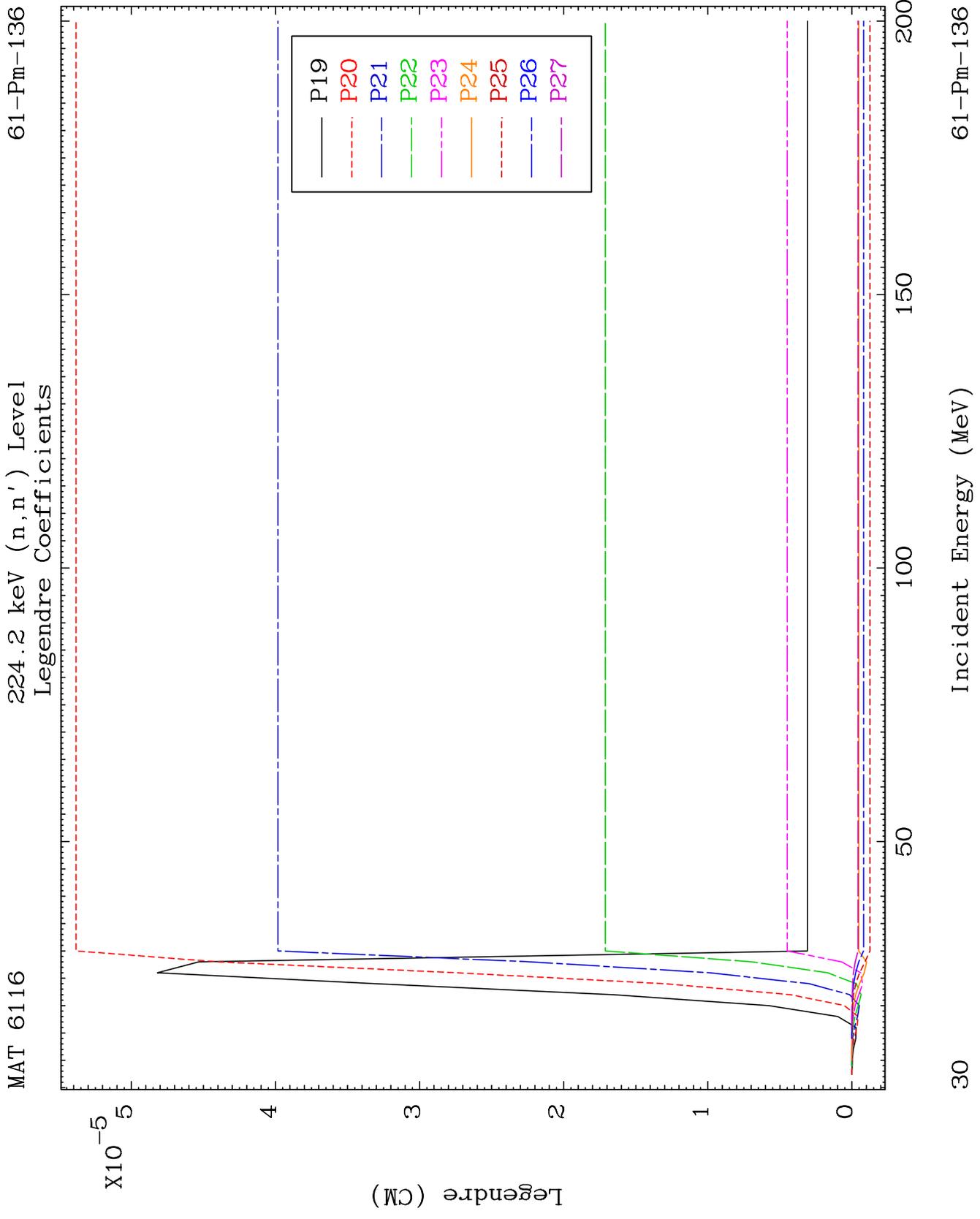
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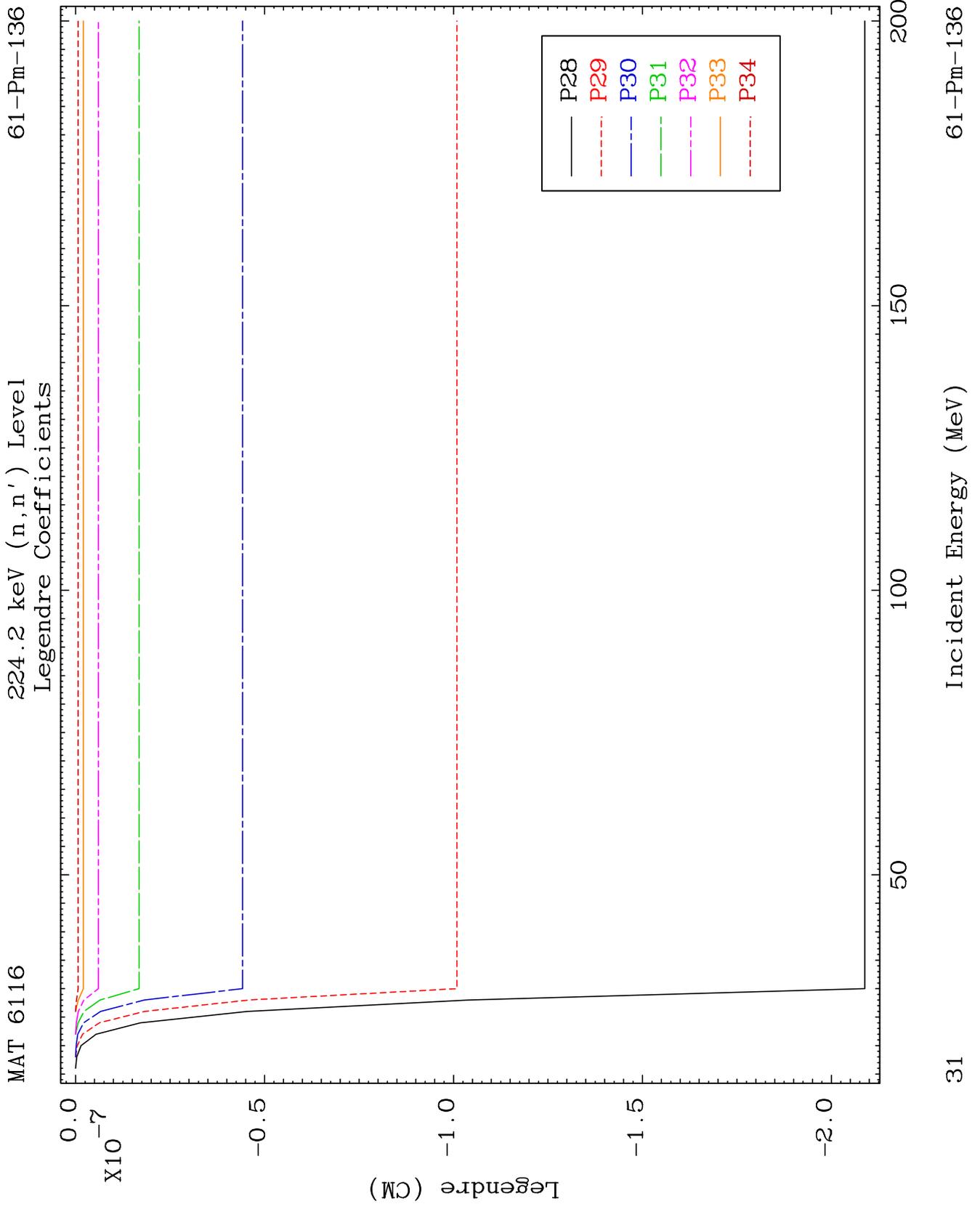


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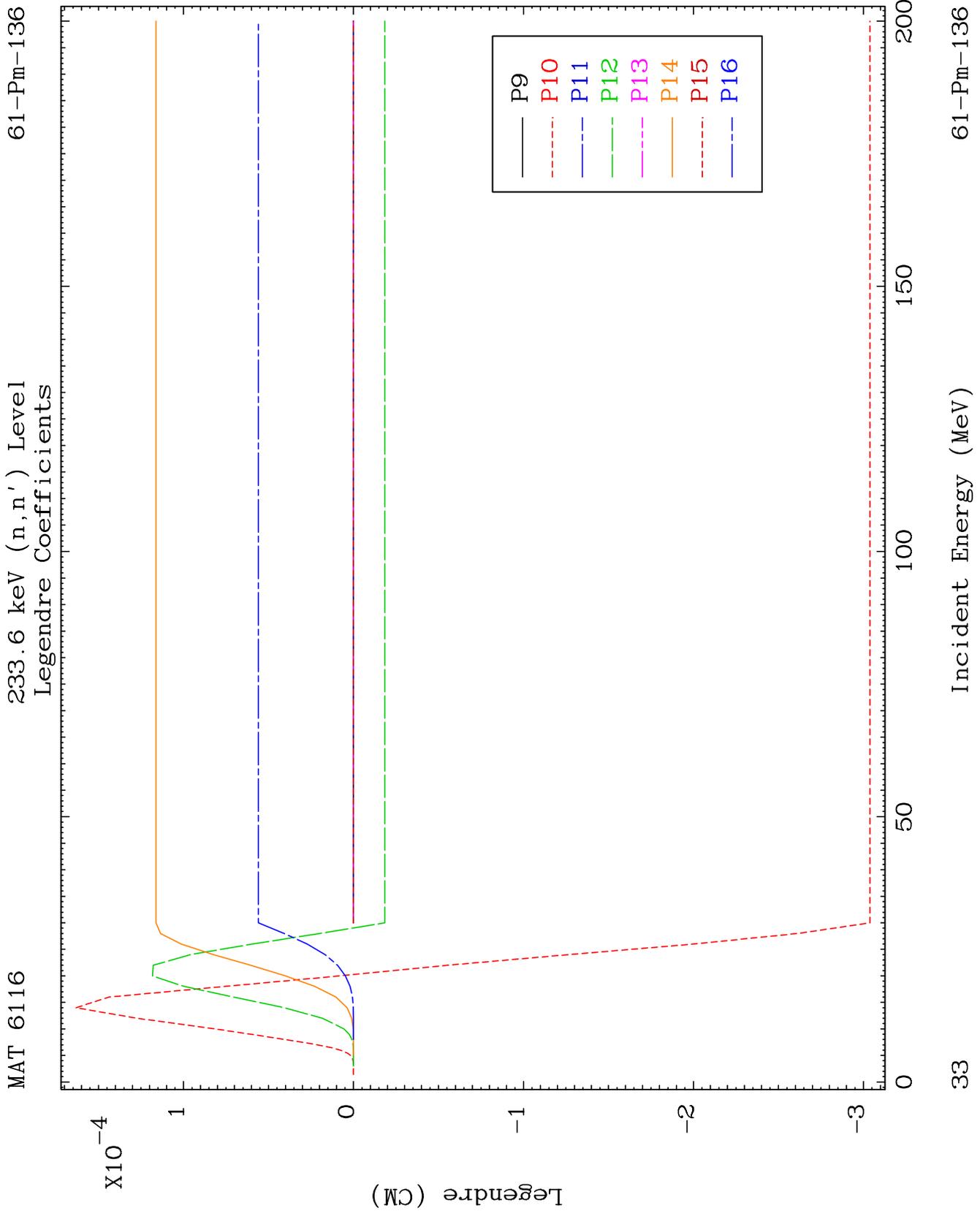
Incident Energy (MeV)

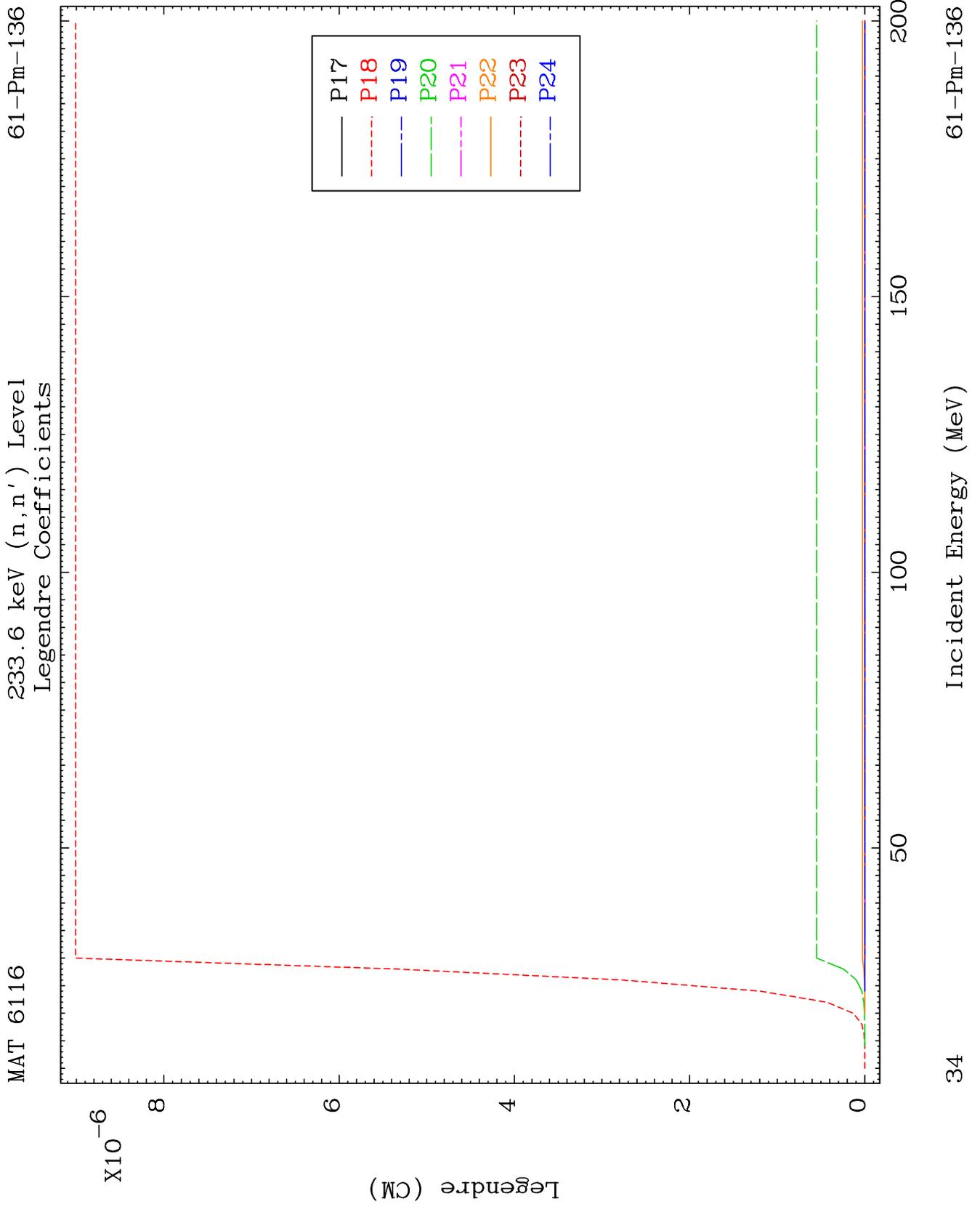
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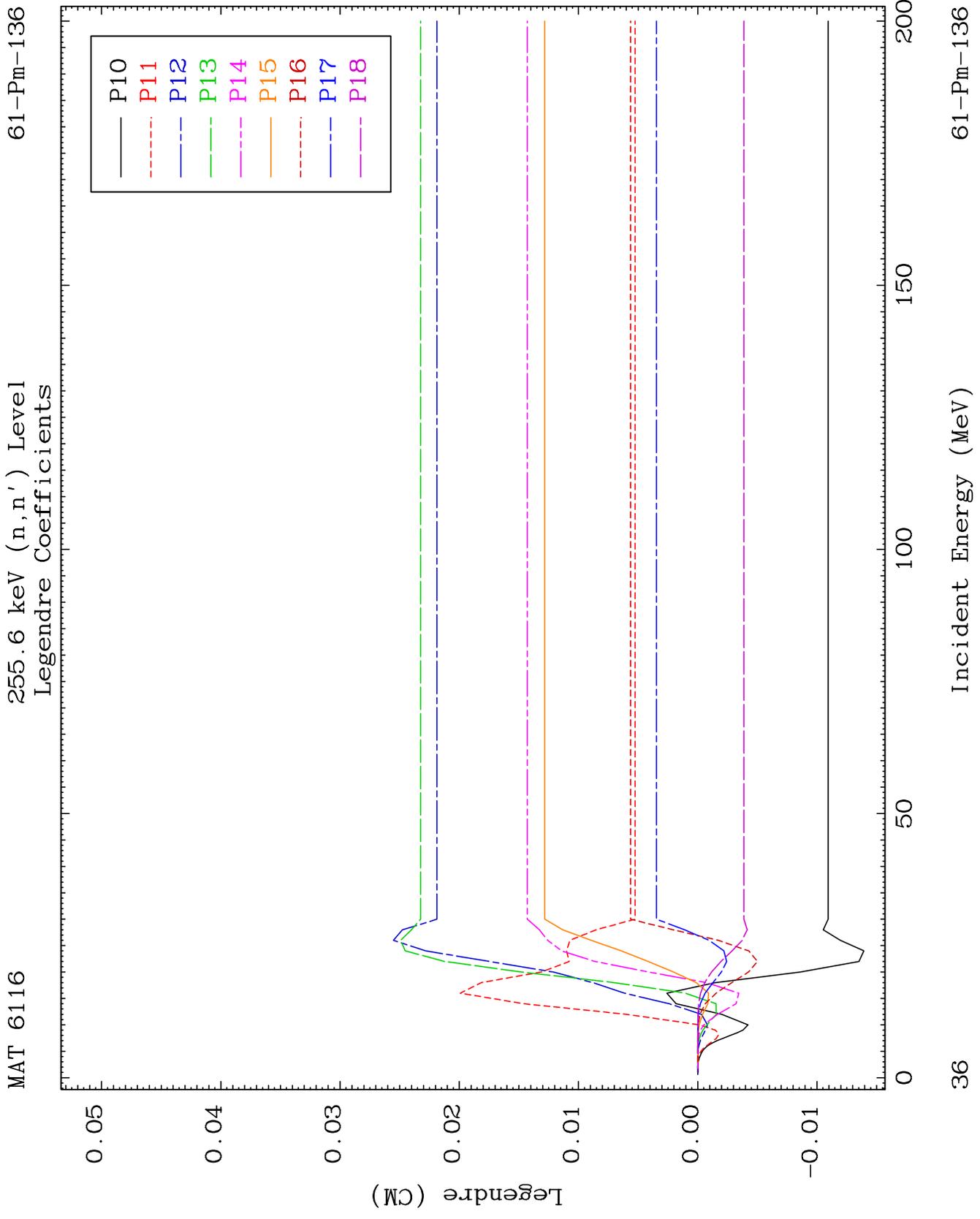








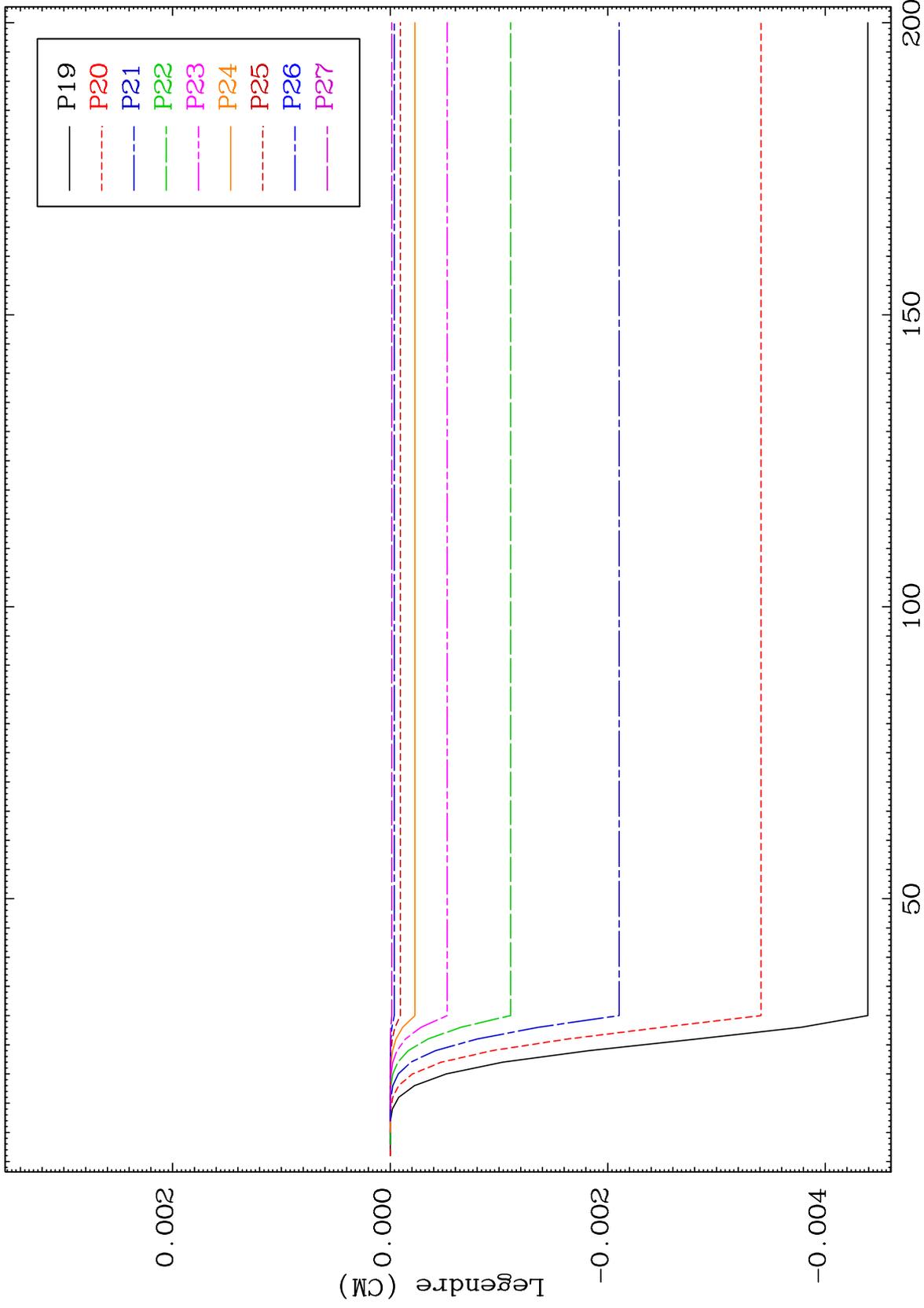




MAT 6116

255.6 keV (n,n') Level  
Legendre Coefficients

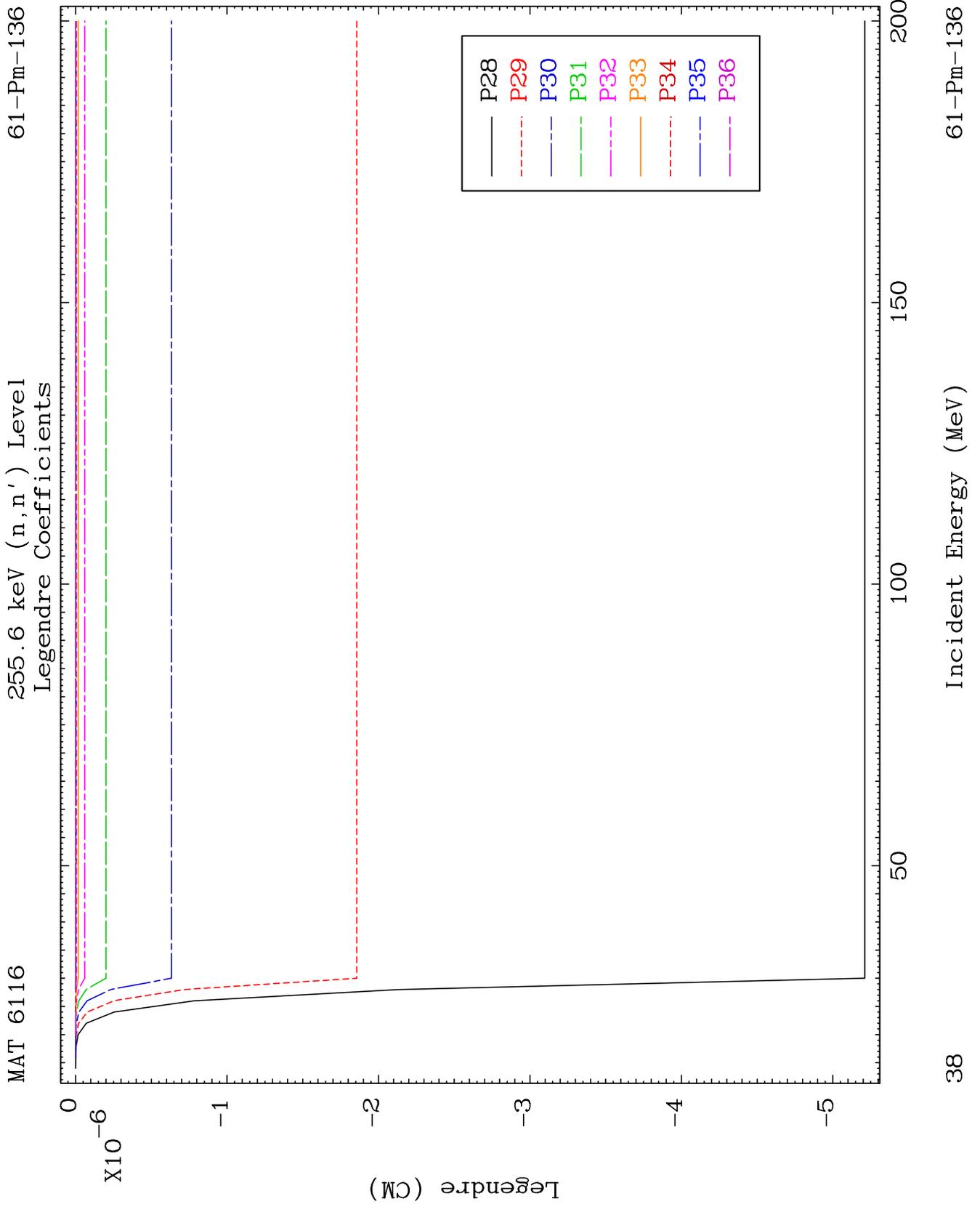
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37

Incident Energy (MeV)

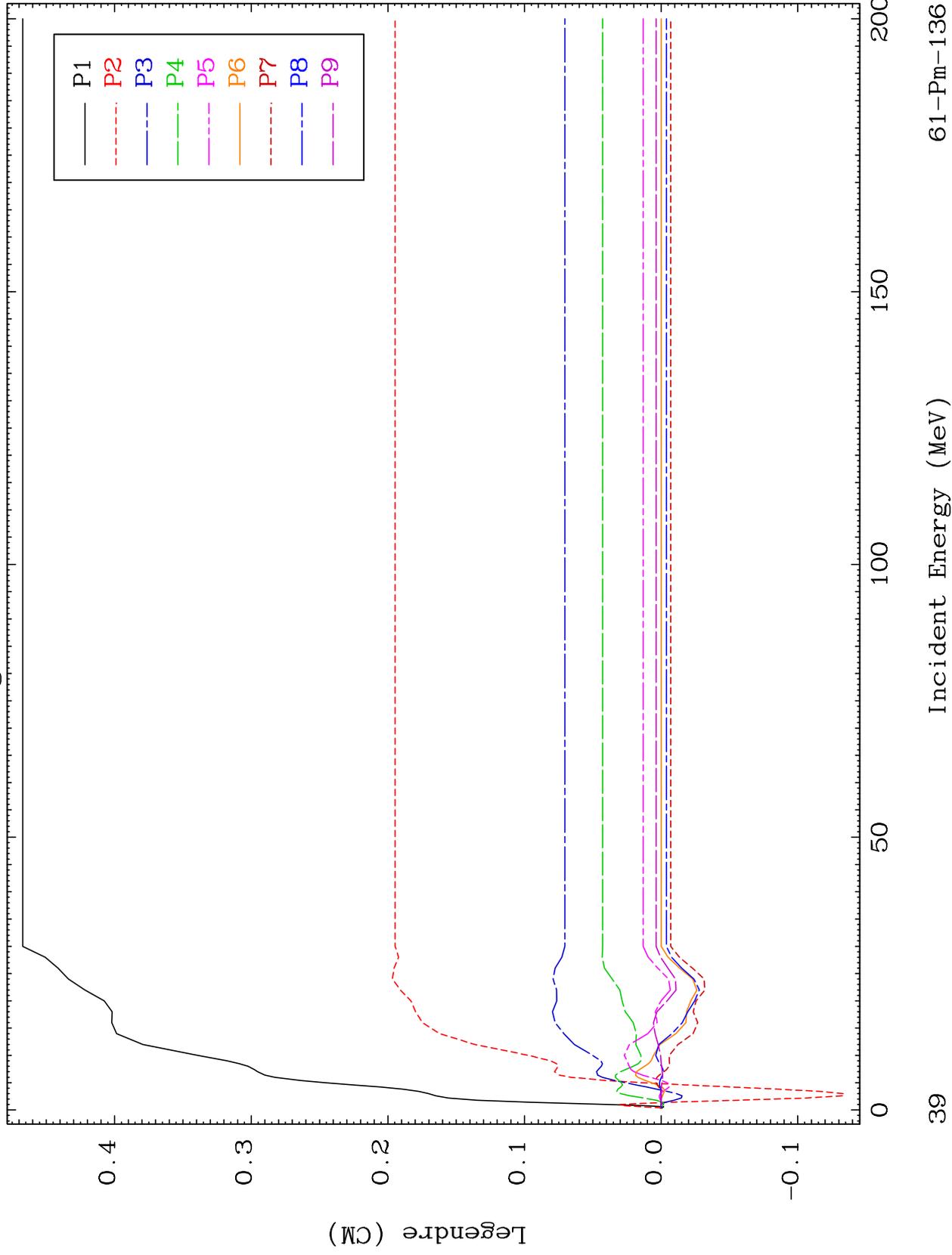
61-Pm-136



MAT 6116

257.0 keV (n,n') Level  
Legendre Coefficients

61-Pm-136



61-Pm-136

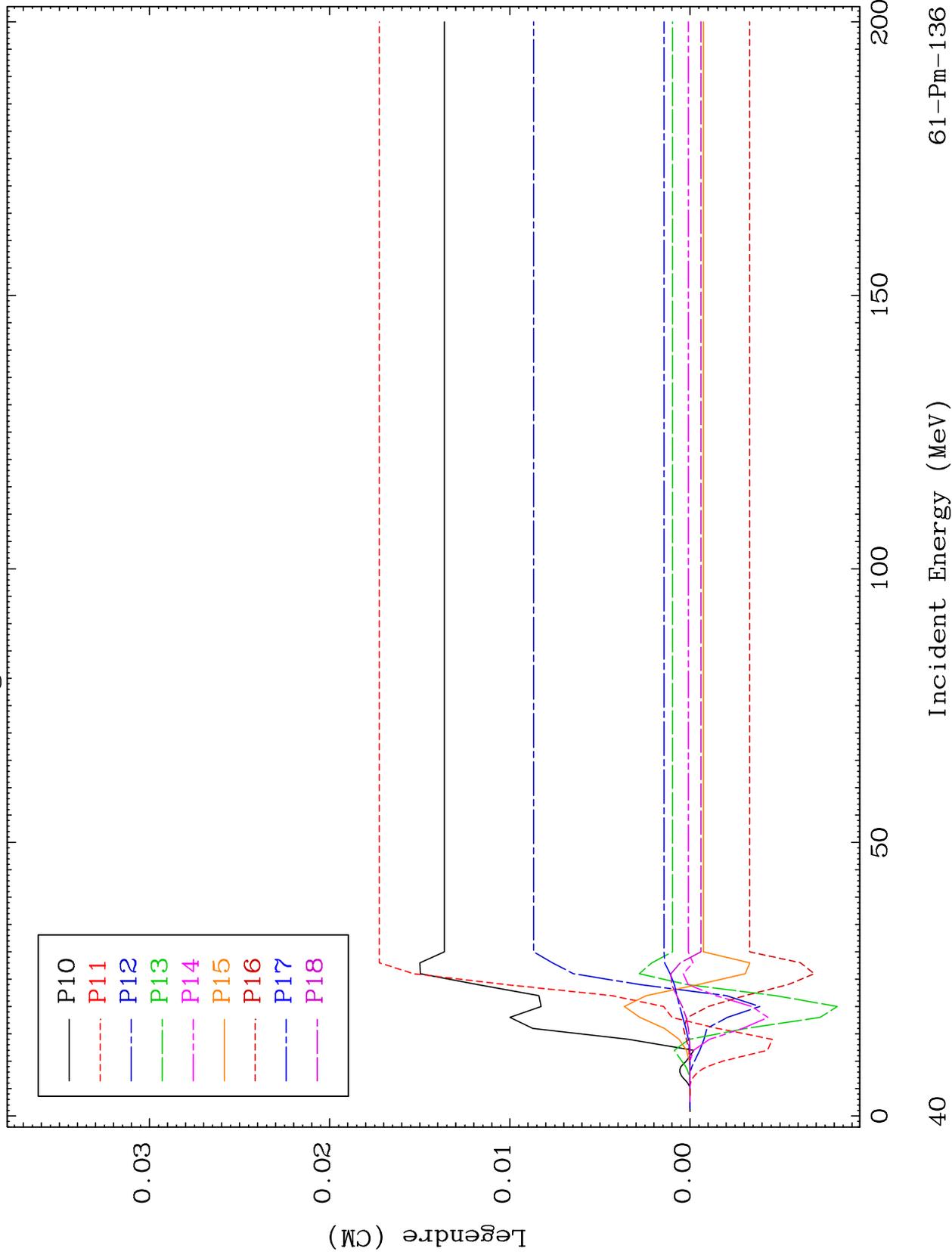
Incident Energy (MeV)

39

MAT 6116

257.0 keV (n,n') Level  
Legendre Coefficients

61-Pm-136



61-Pm-136

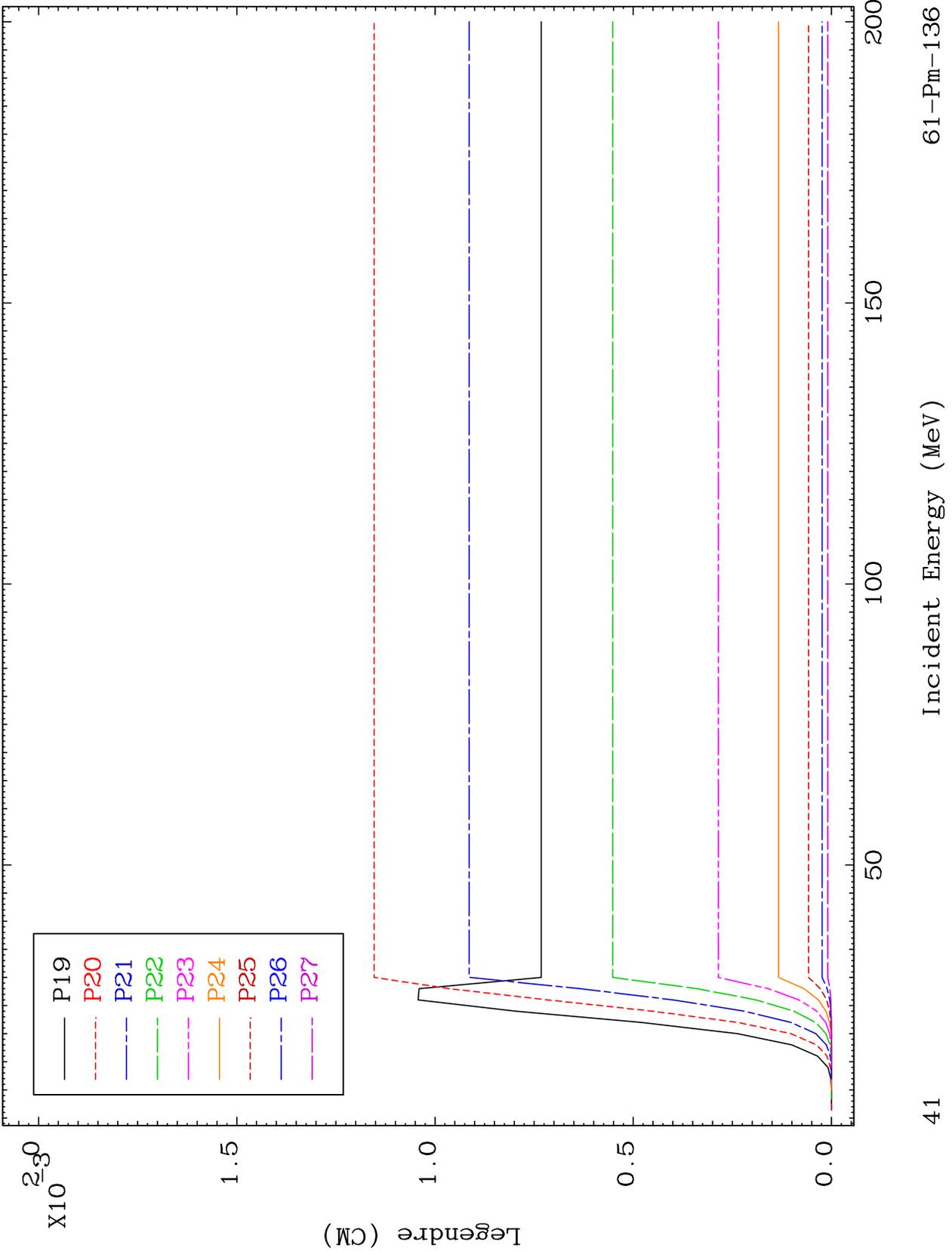
Incident Energy (MeV)

40

MAT 6116

257.0 keV (n,n') Level  
Legendre Coefficients

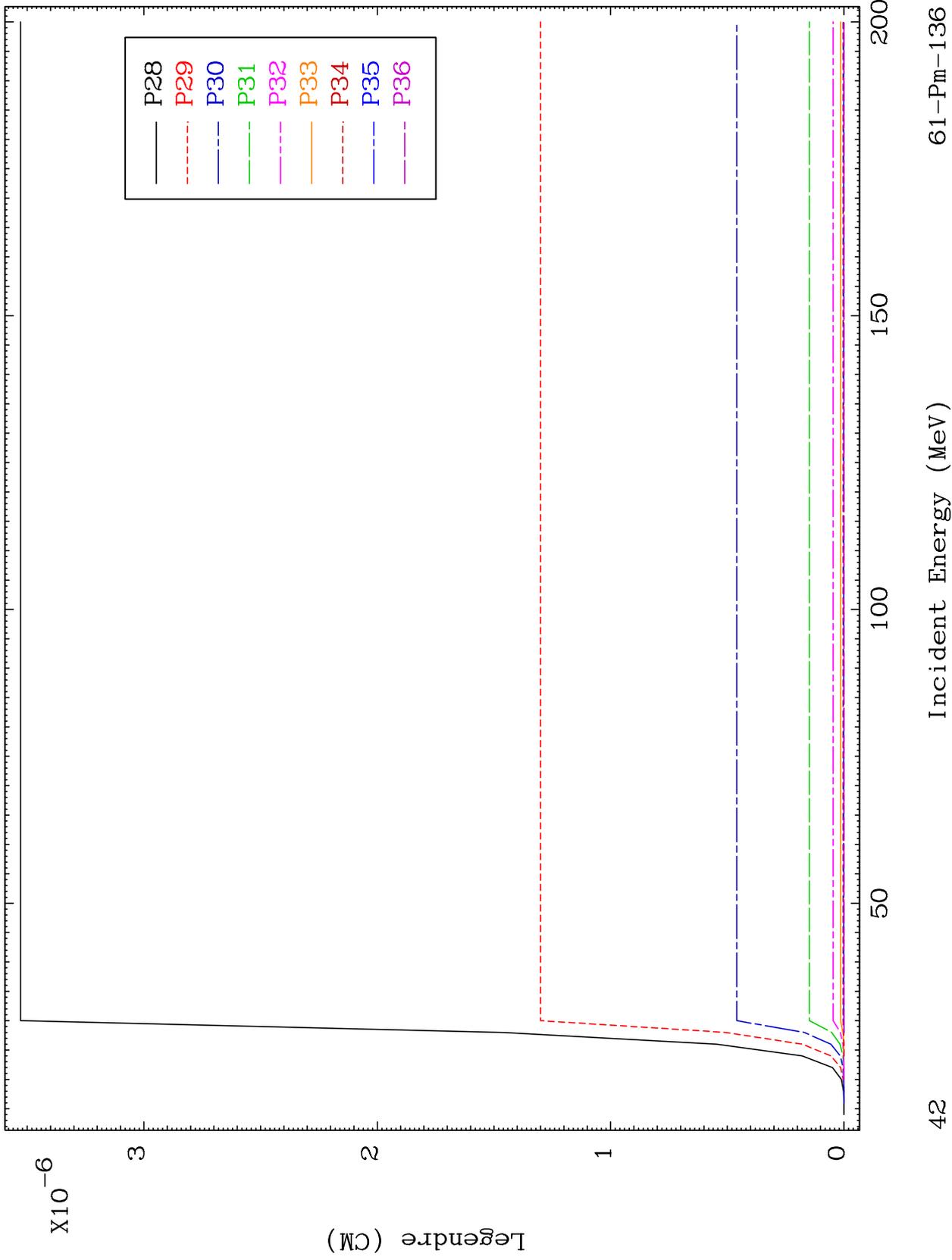
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MAT 6116

257.0 keV (n,n') Level  
Legendre Coefficients

61-Pm-136



42

Incident Energy (MeV)

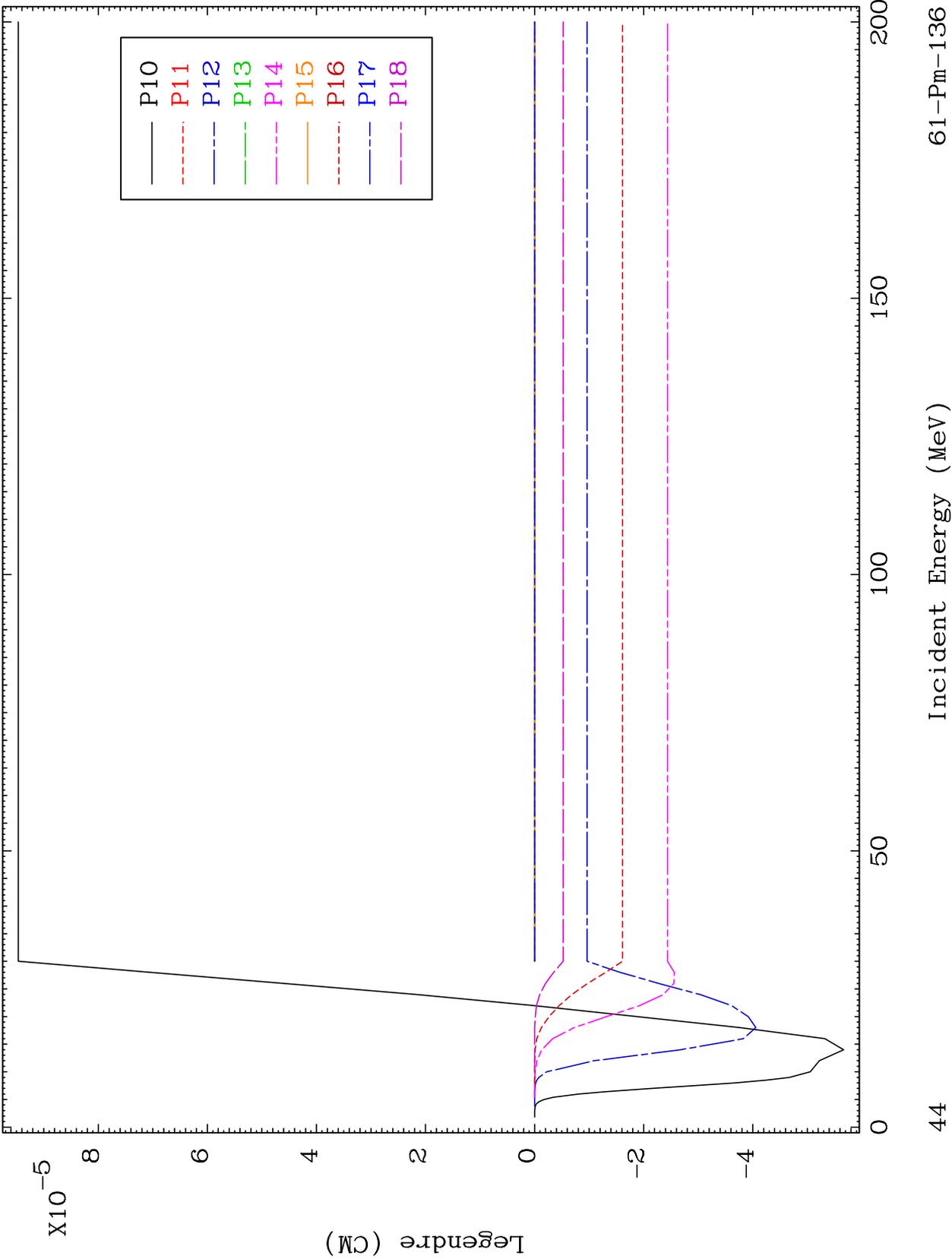
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MAT 6116

261.3 keV (n,n') Level  
Legendre Coefficients

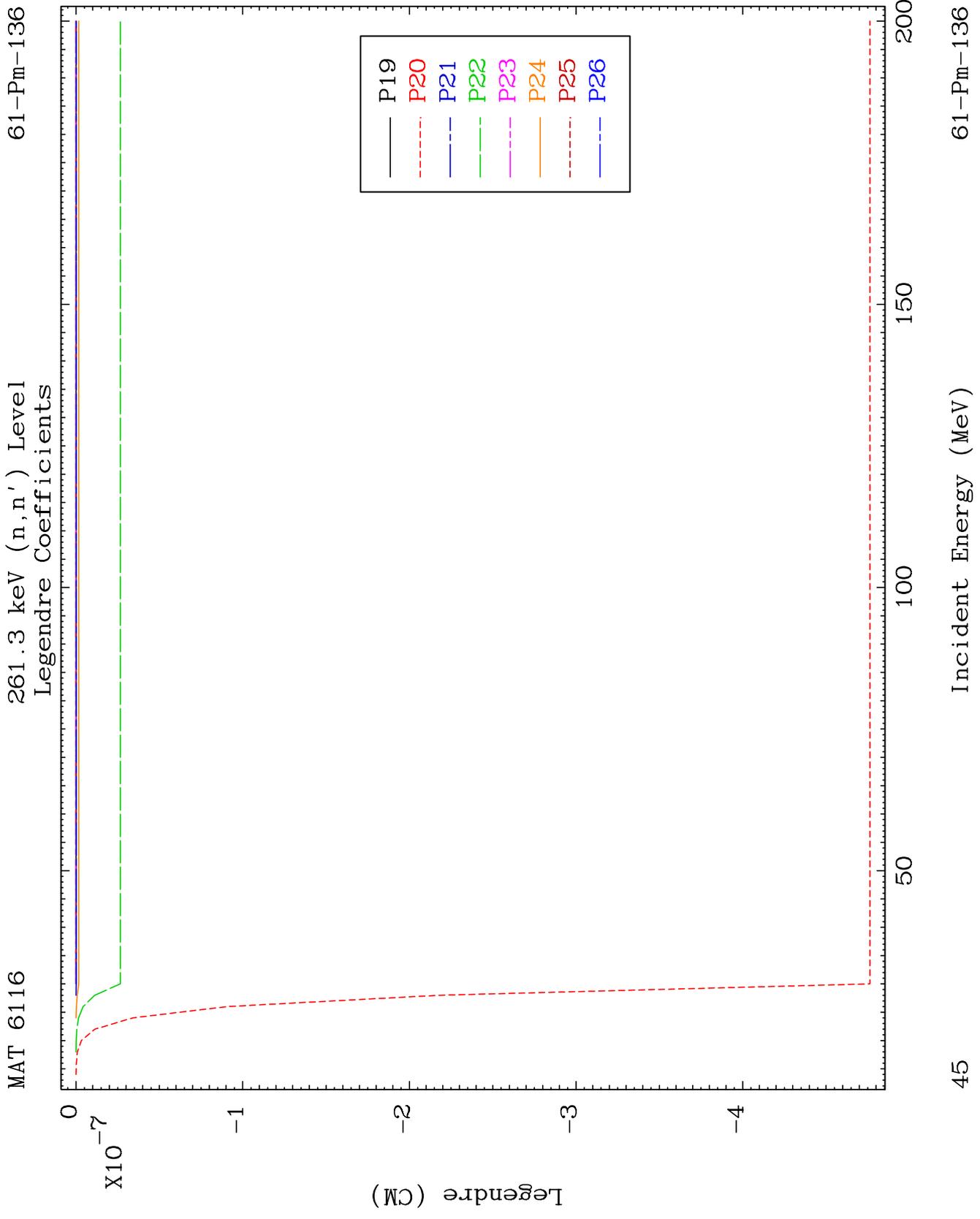
61-Pm-136



44

Incident Energy (MeV)

61-Pm-136

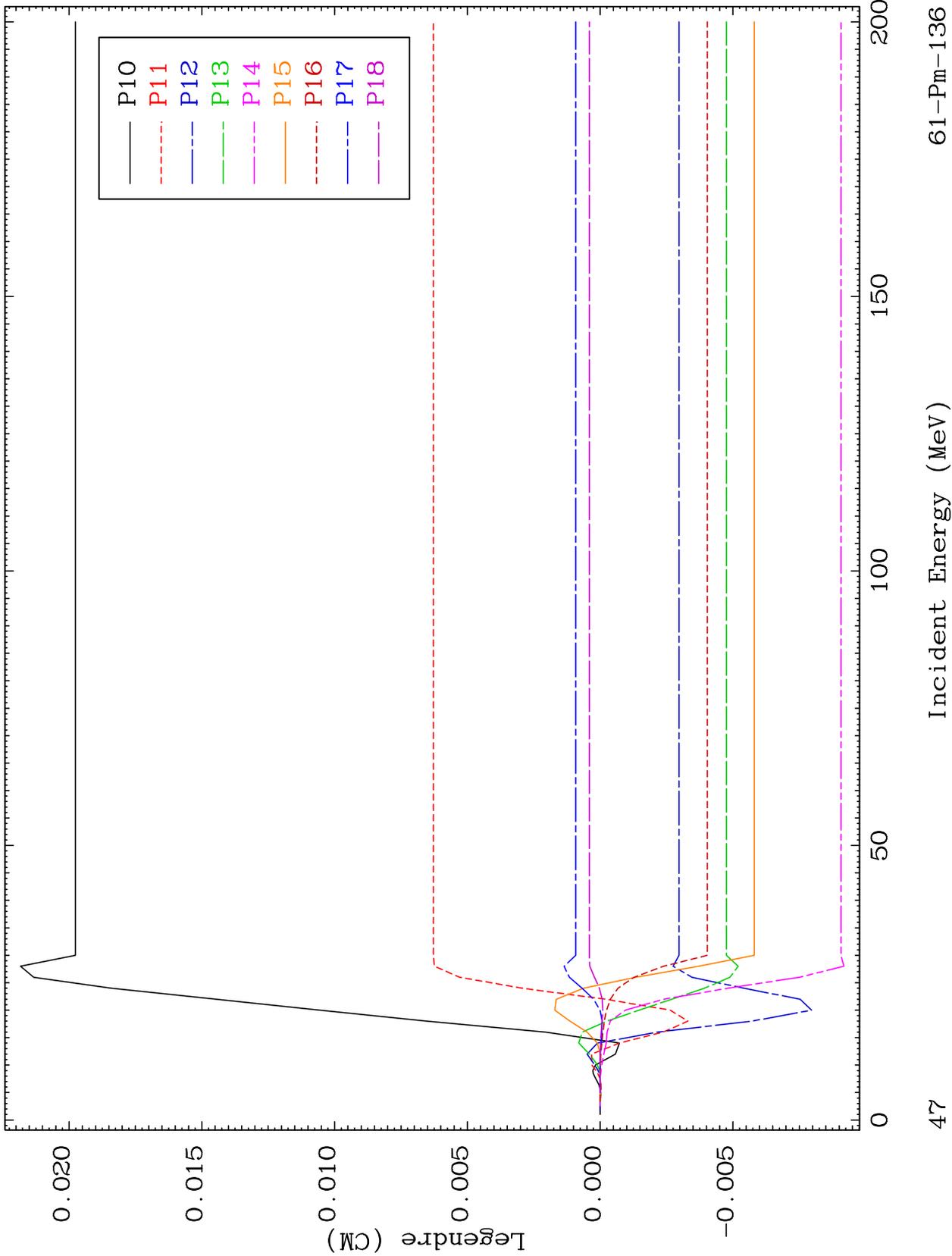




MAT 61116

289.3 keV (n,n') Level  
Legendre Coefficients

61-Pm-136



47

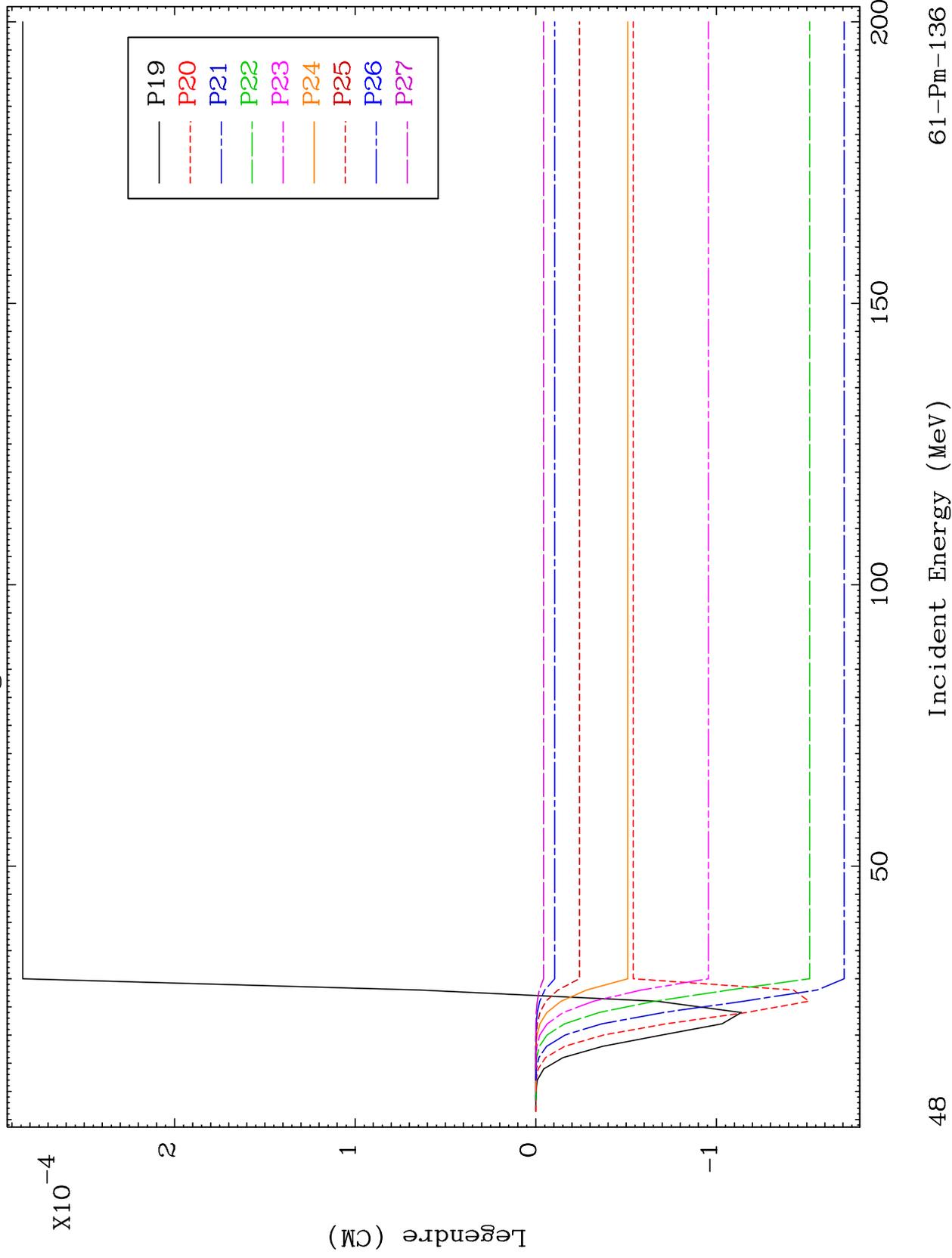
Incident Energy (MeV)

61-Pm-136

MAT 6116

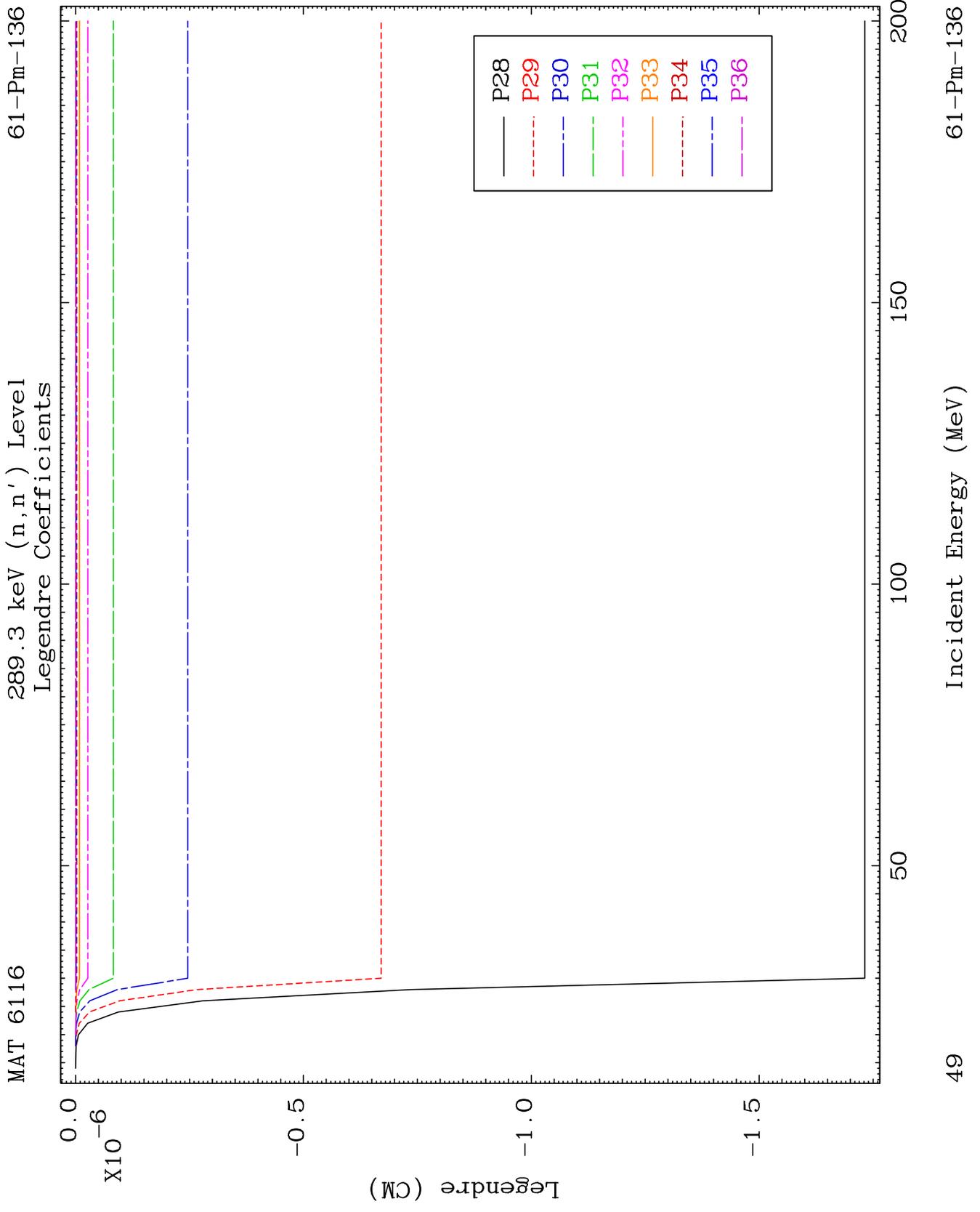
289.3 keV (n,n') Level  
Legendre Coefficients

61-Pm-136

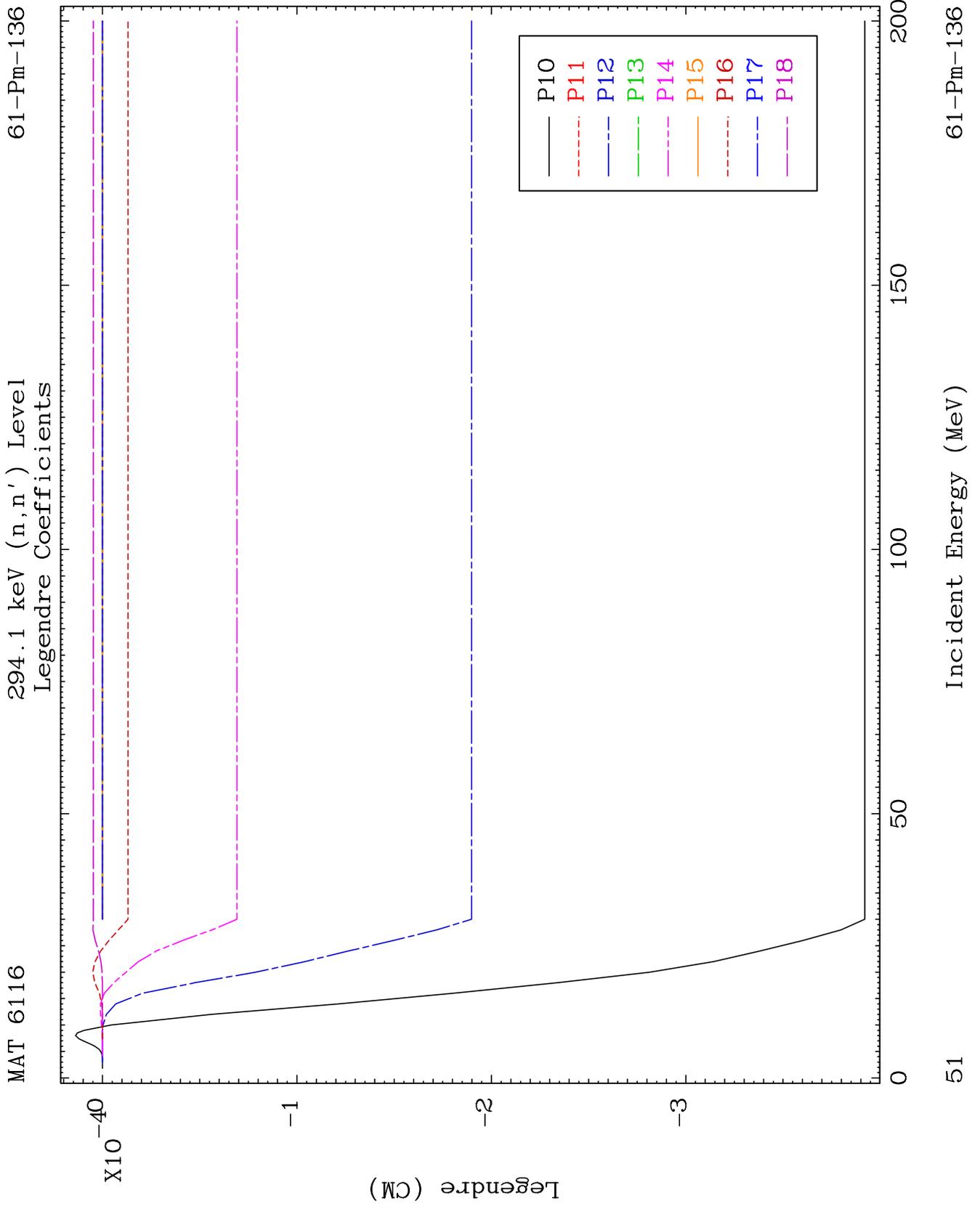


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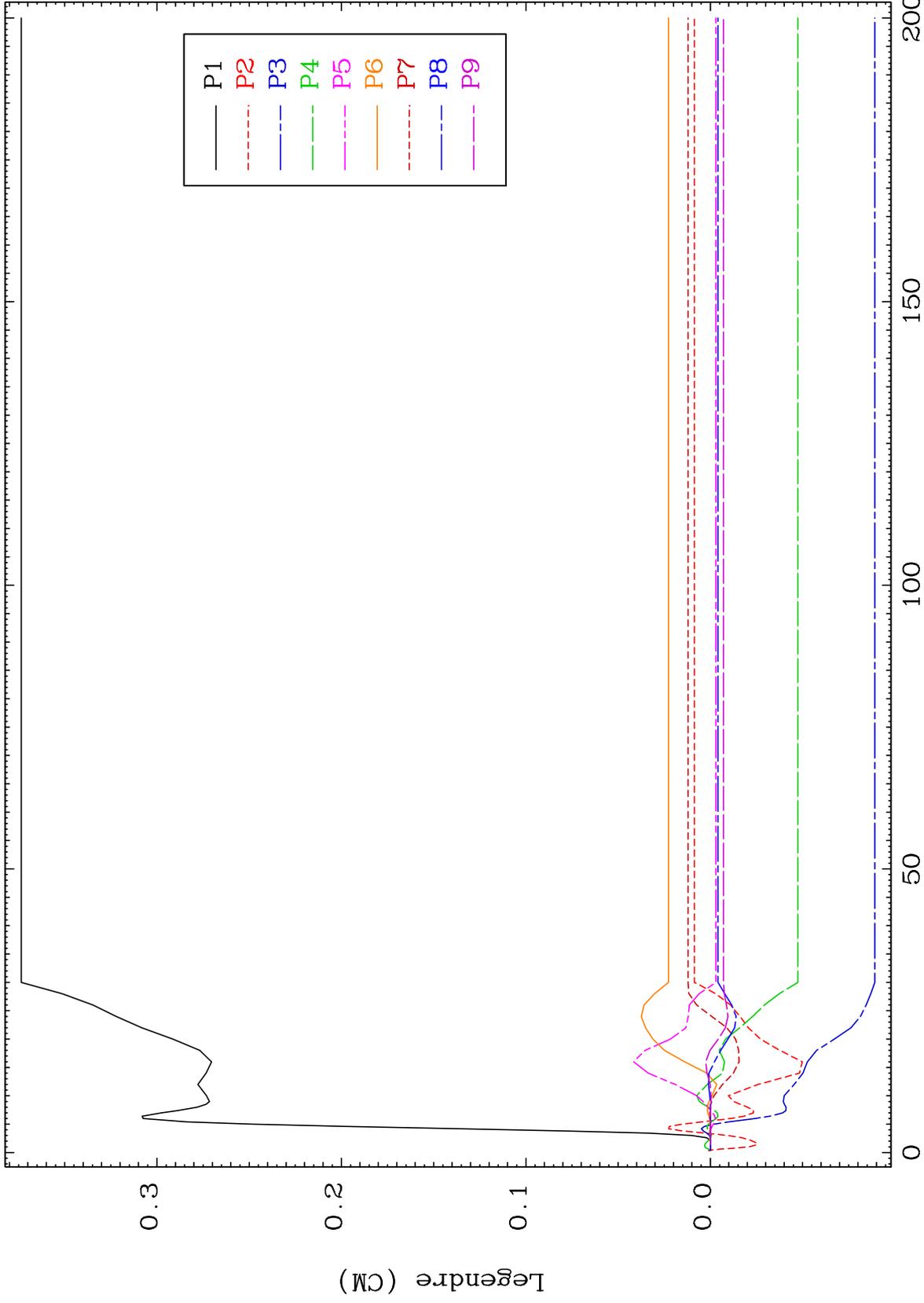
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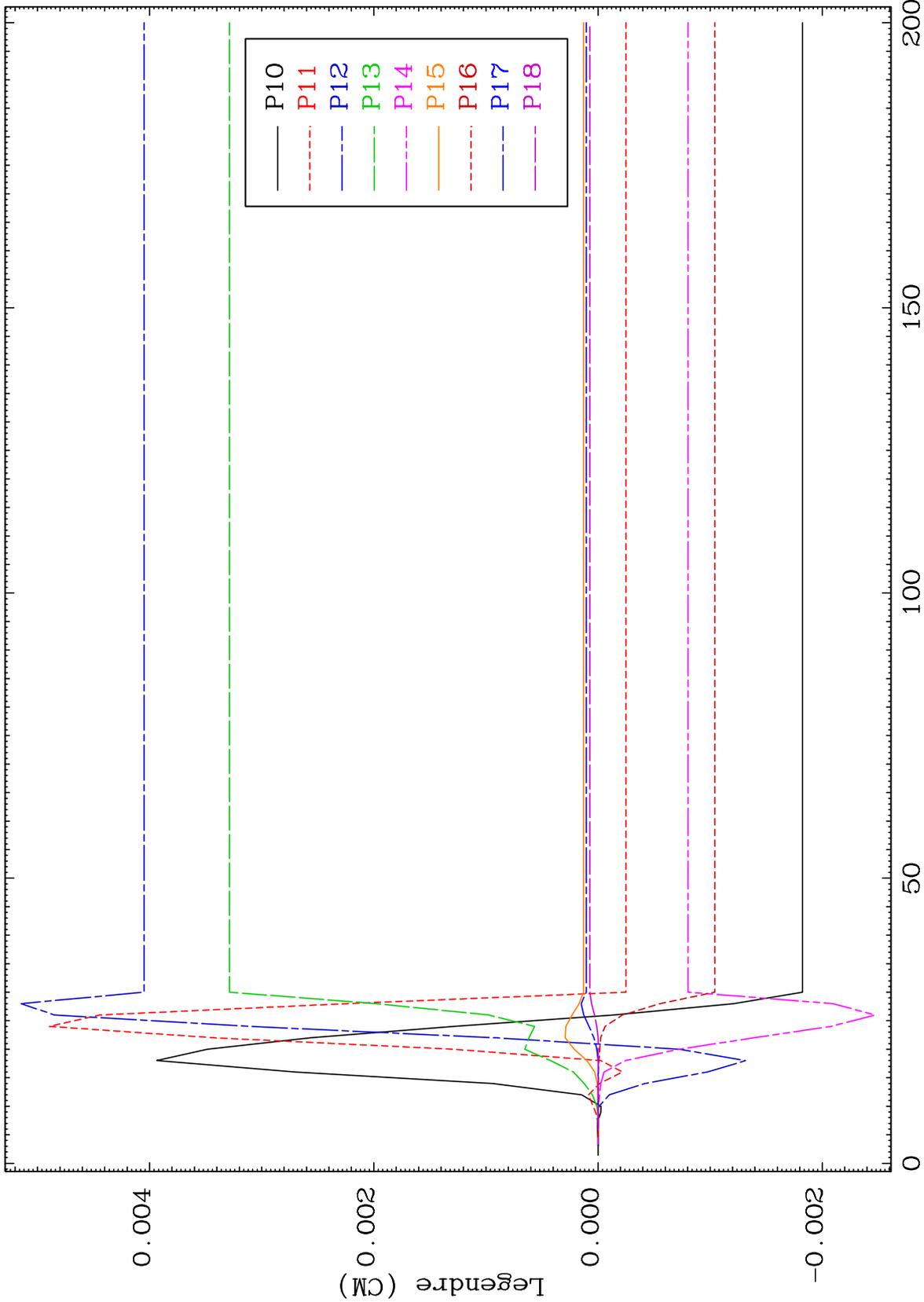




MAT 6116

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Legendre Coefficients

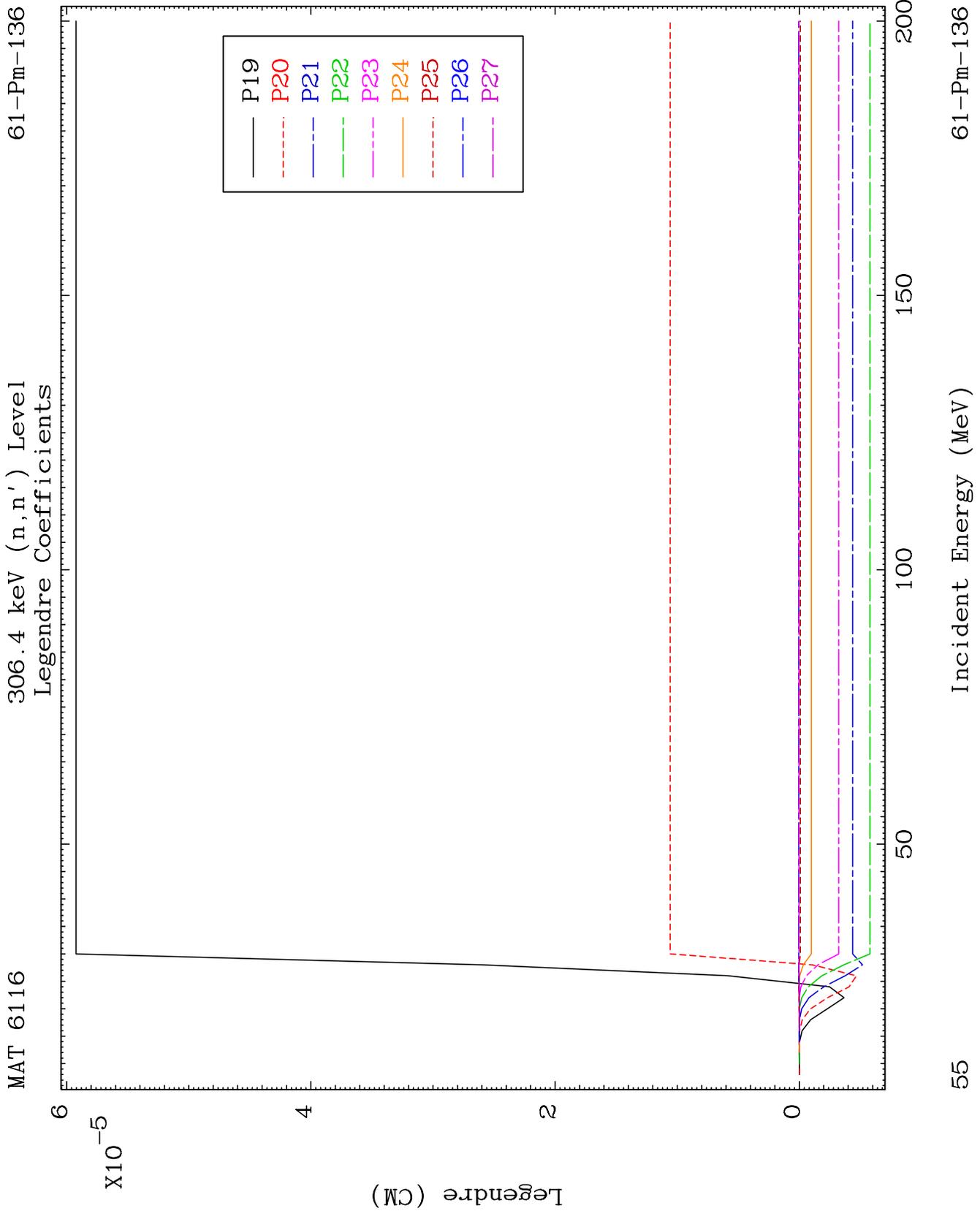
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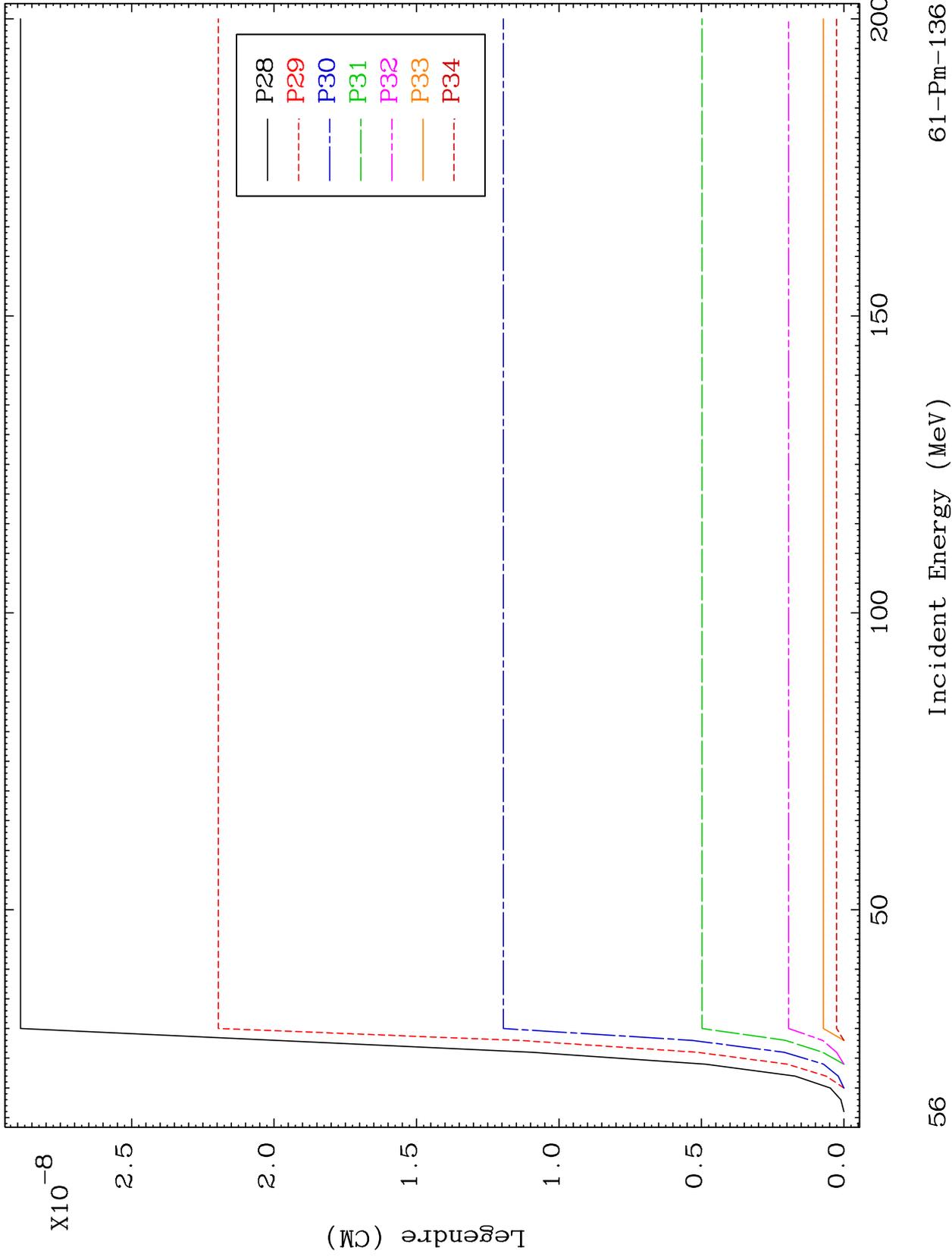


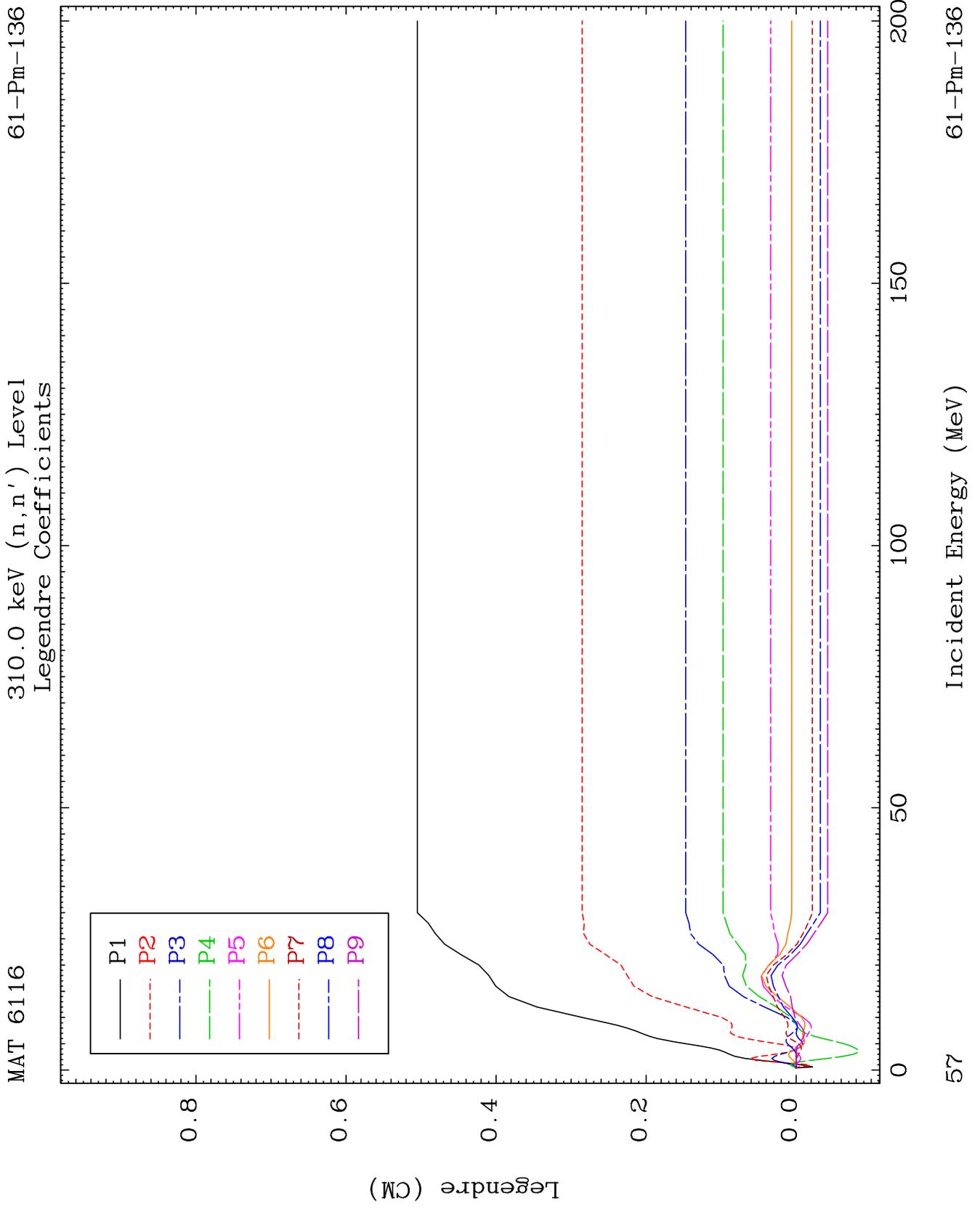
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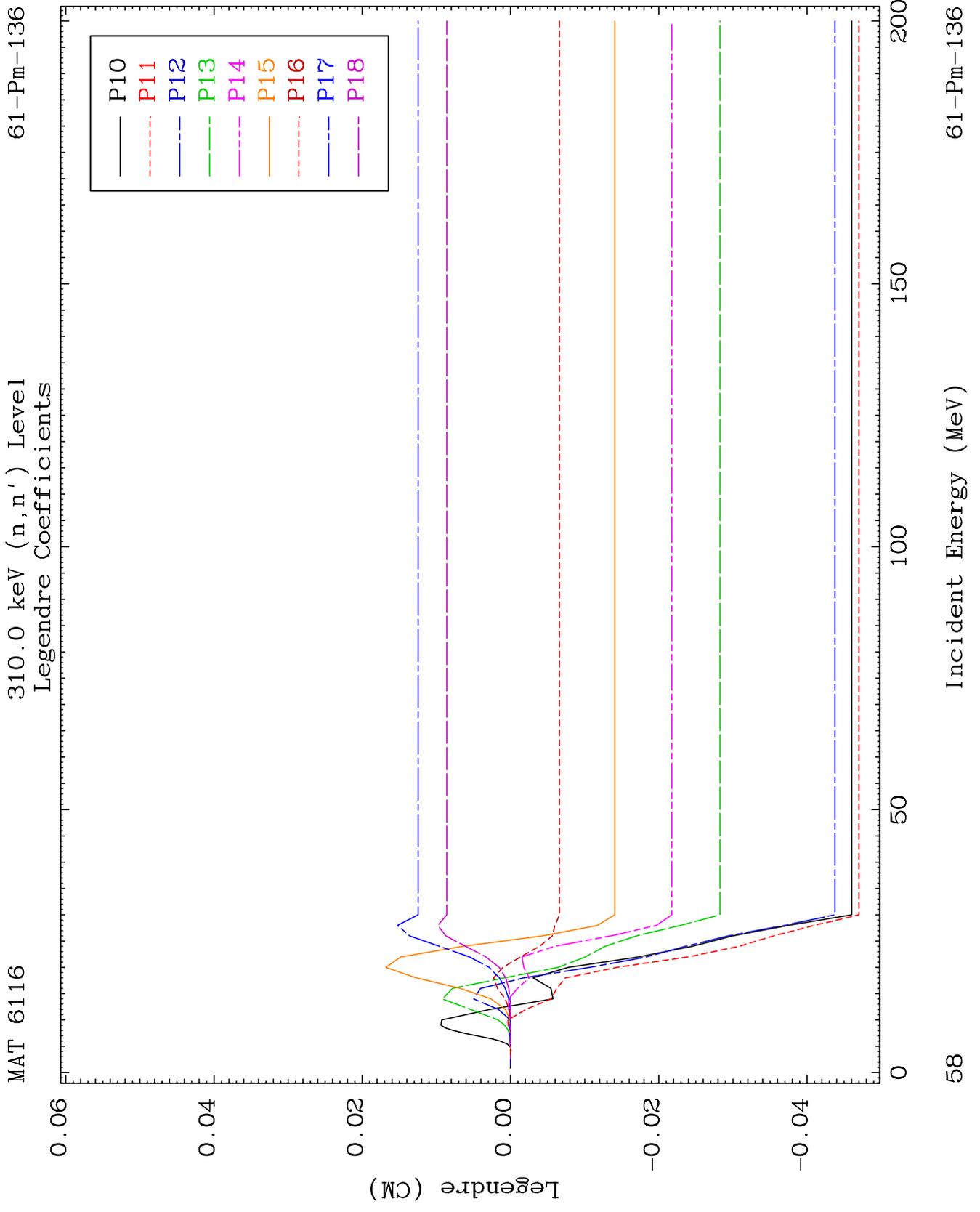
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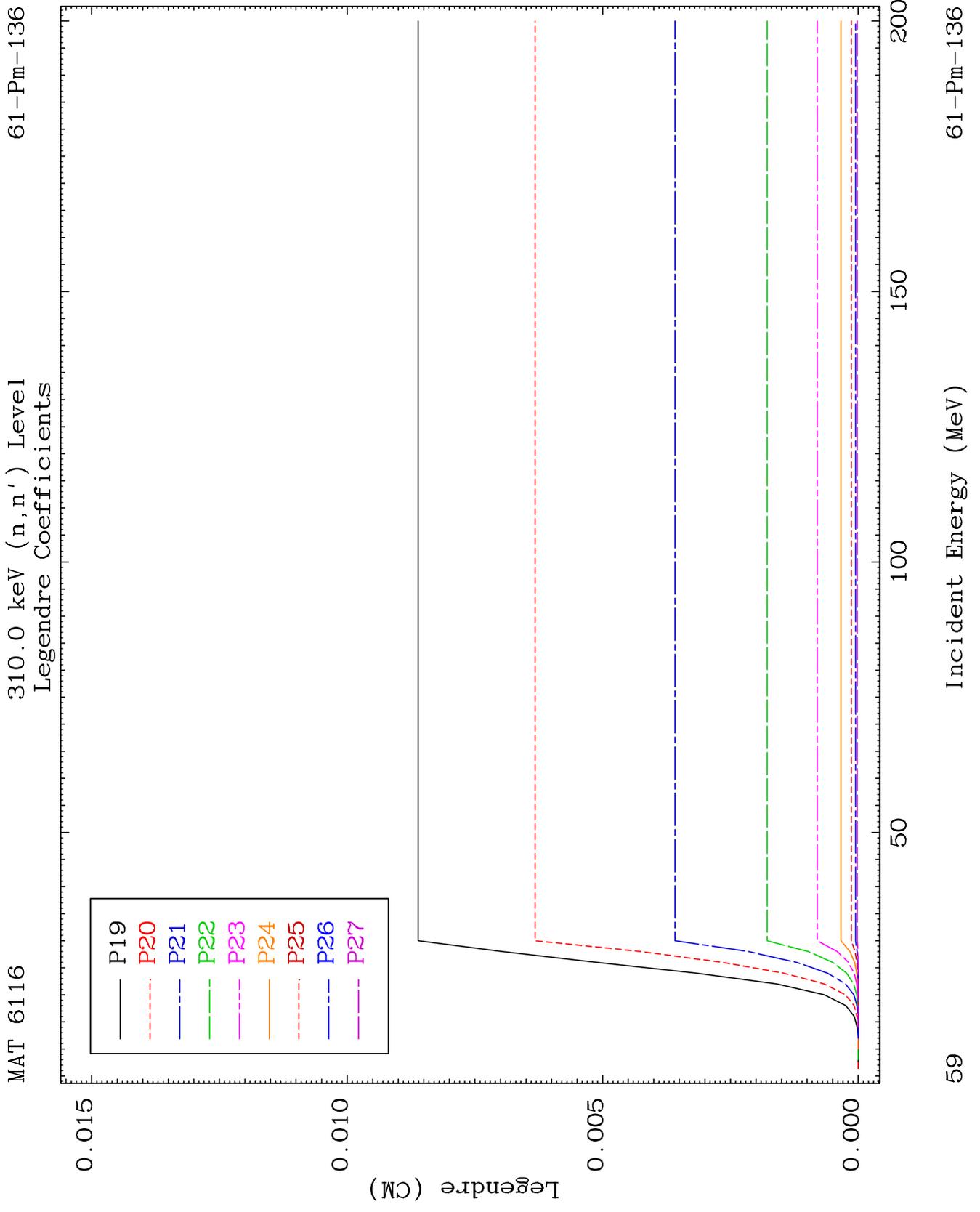
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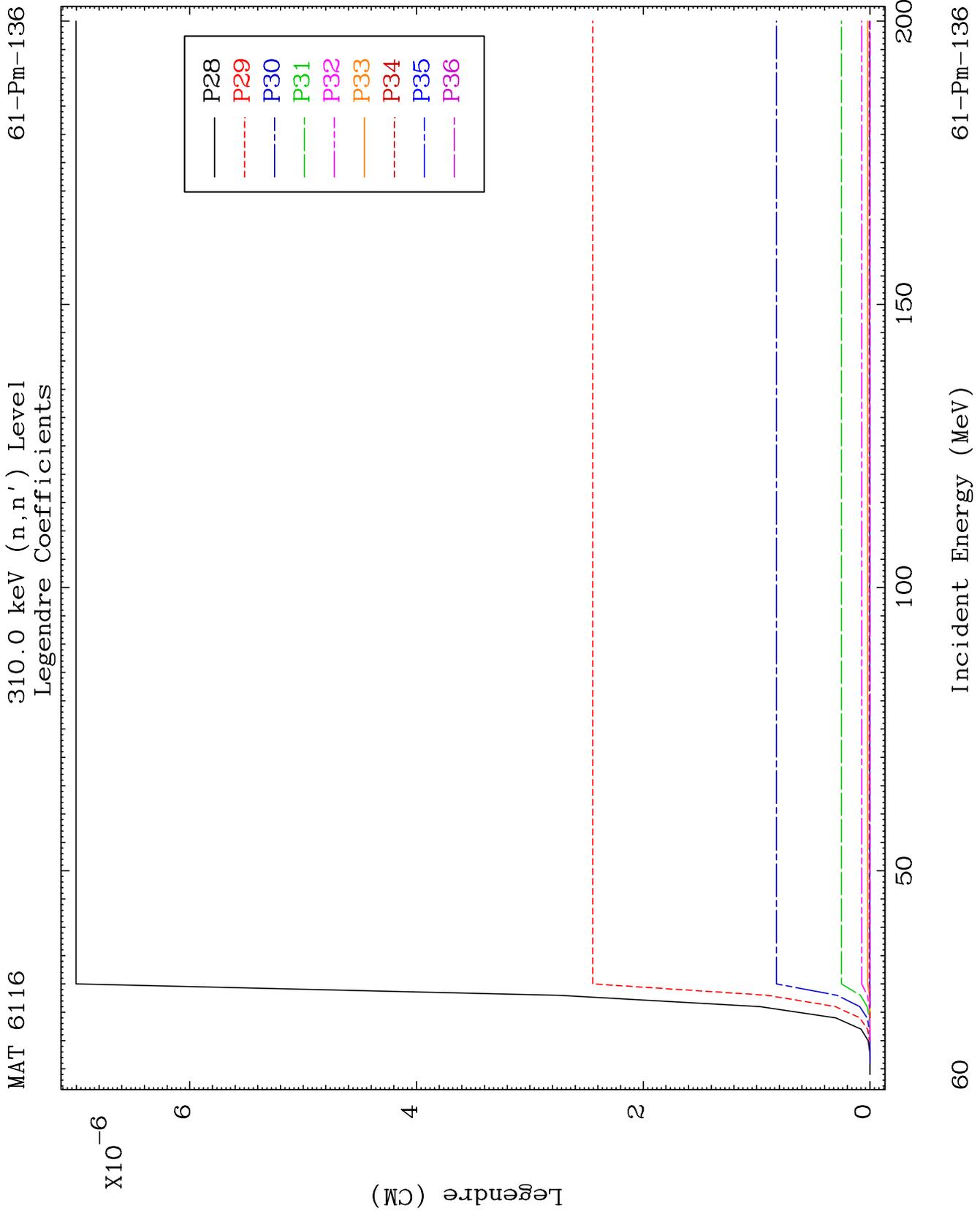


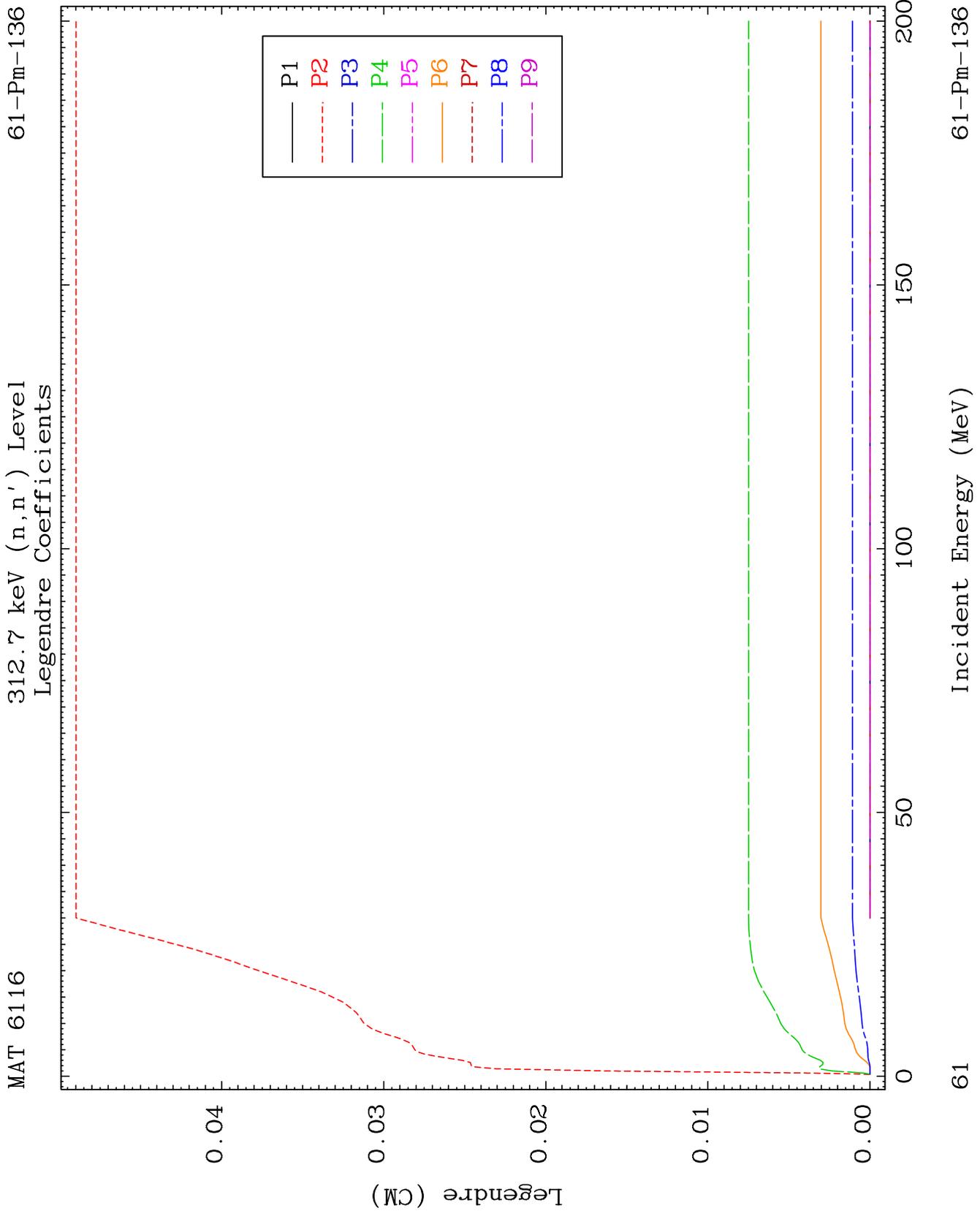








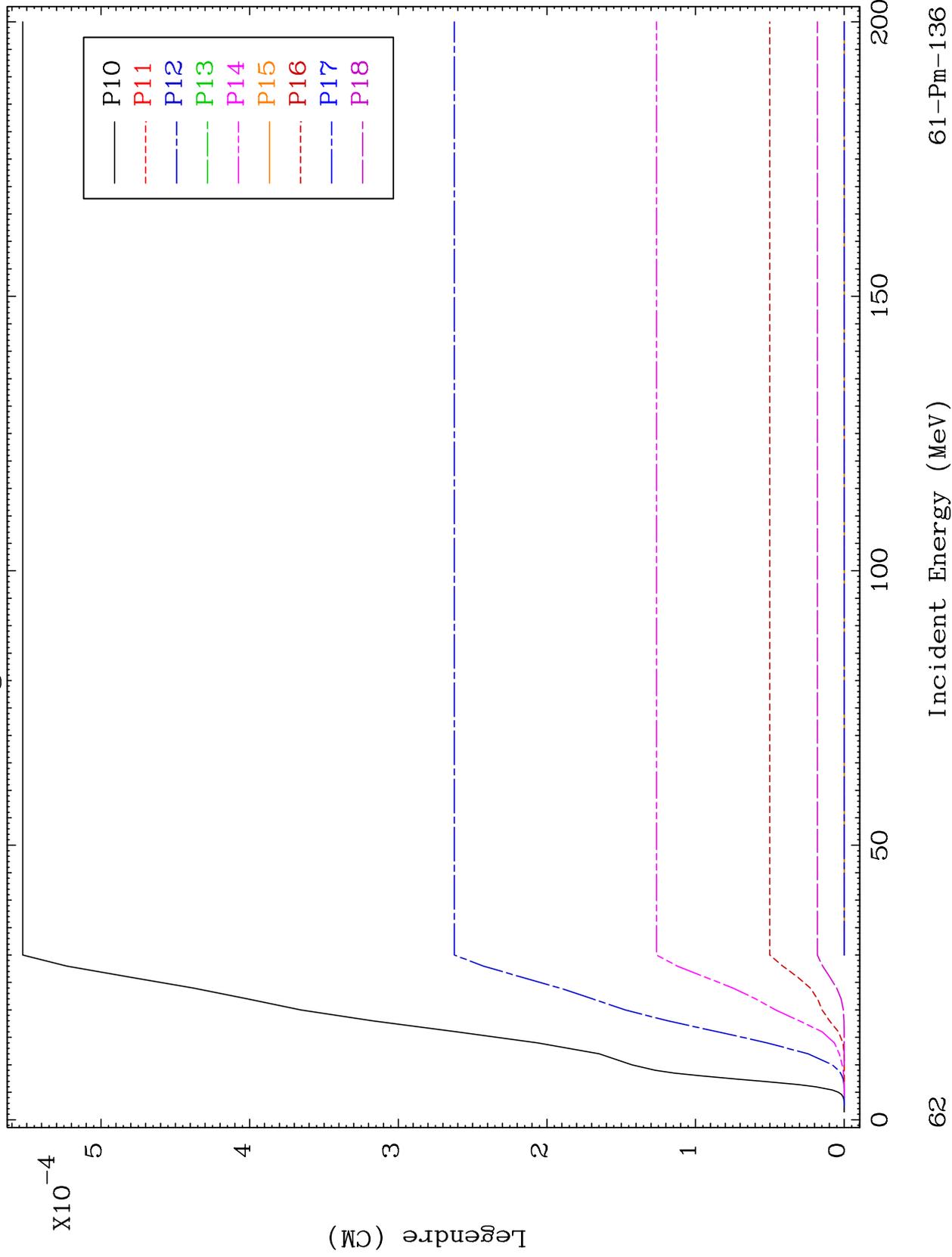




MAT 6116

312.7 keV (n,n') Level  
Legendre Coefficients

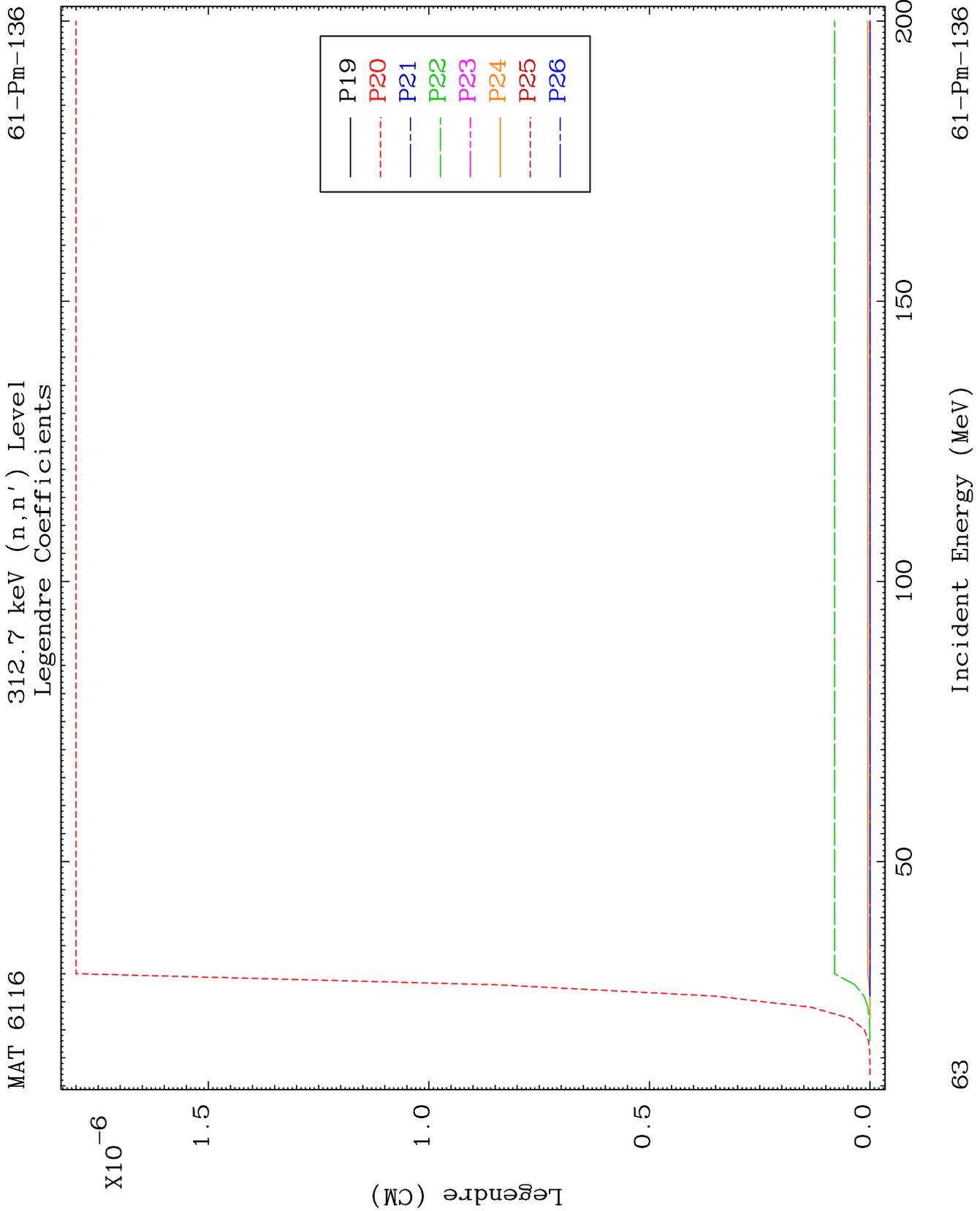
61-Pm-136



61-Pm-136

Incident Energy (MeV)

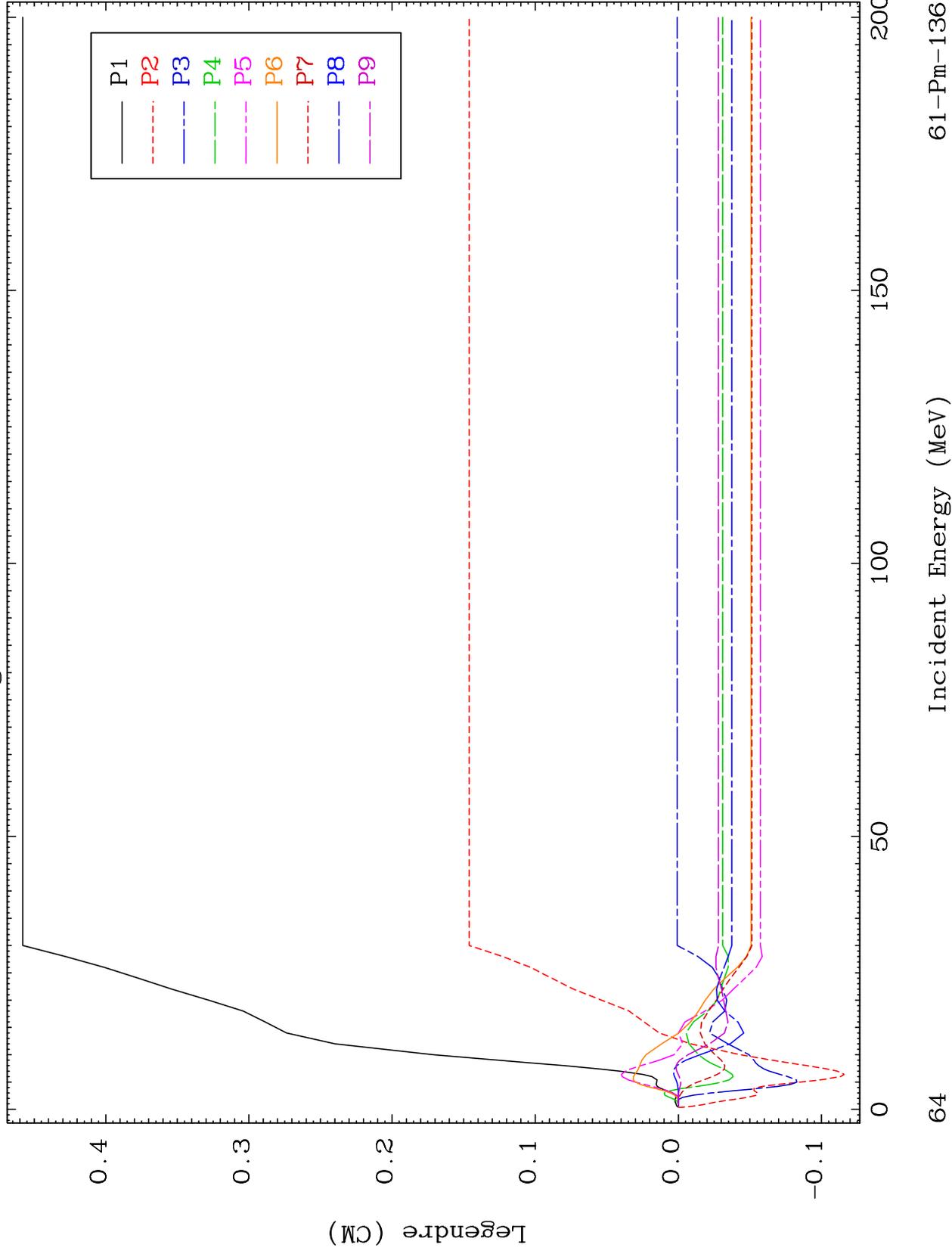
62



MAT 6116

335.6 keV (n,n') Level  
Legendre Coefficients

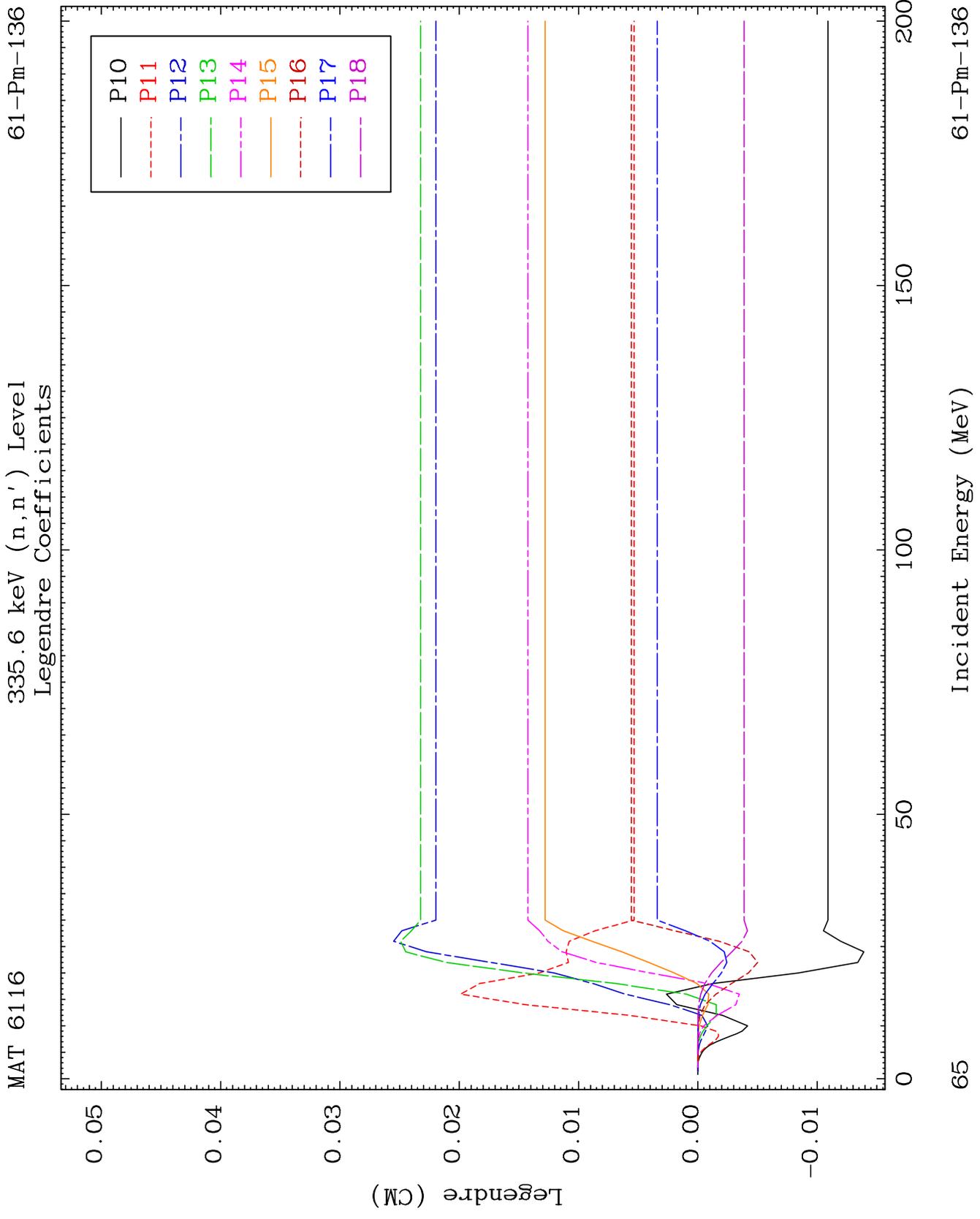
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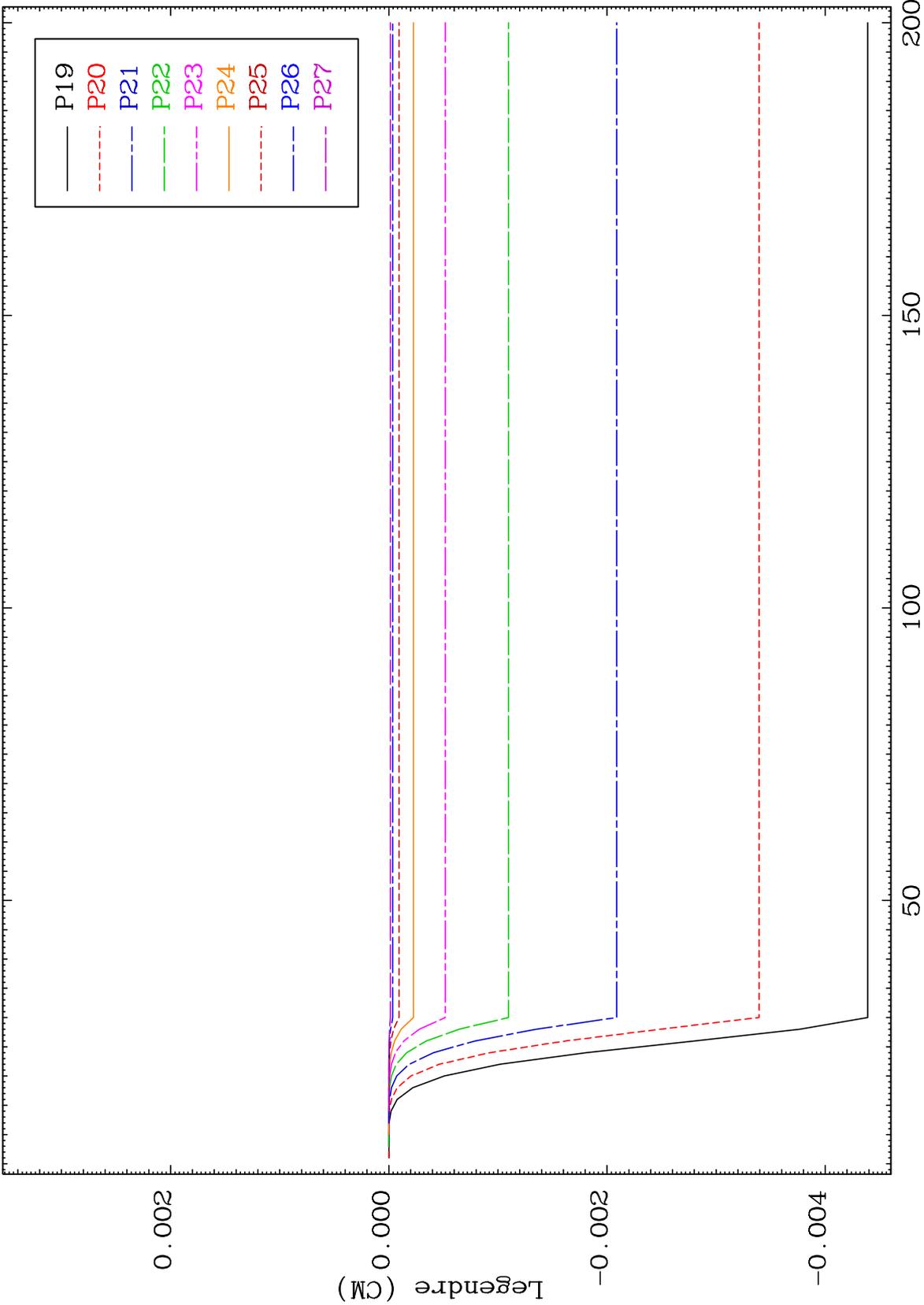


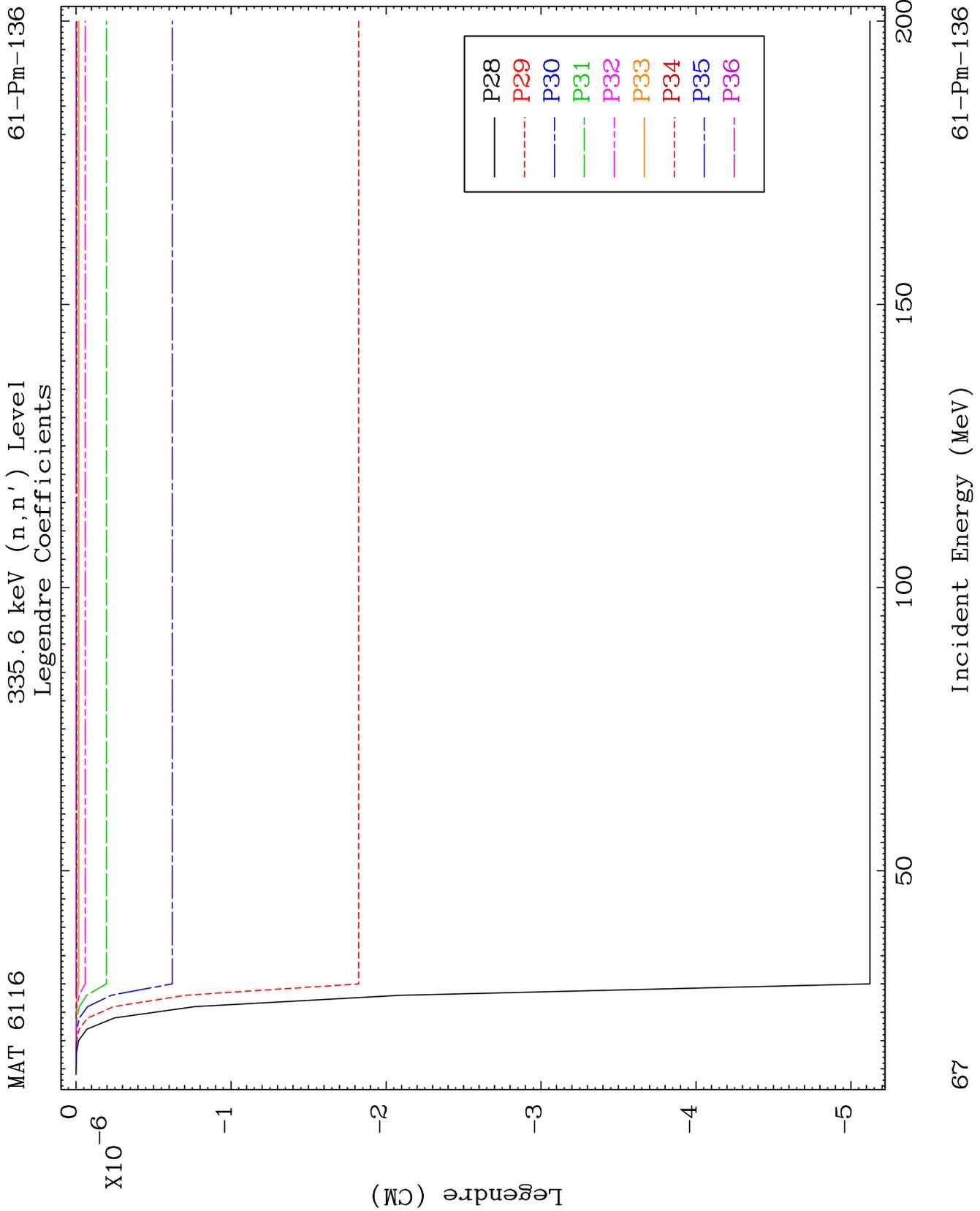
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Incident Energy (MeV)

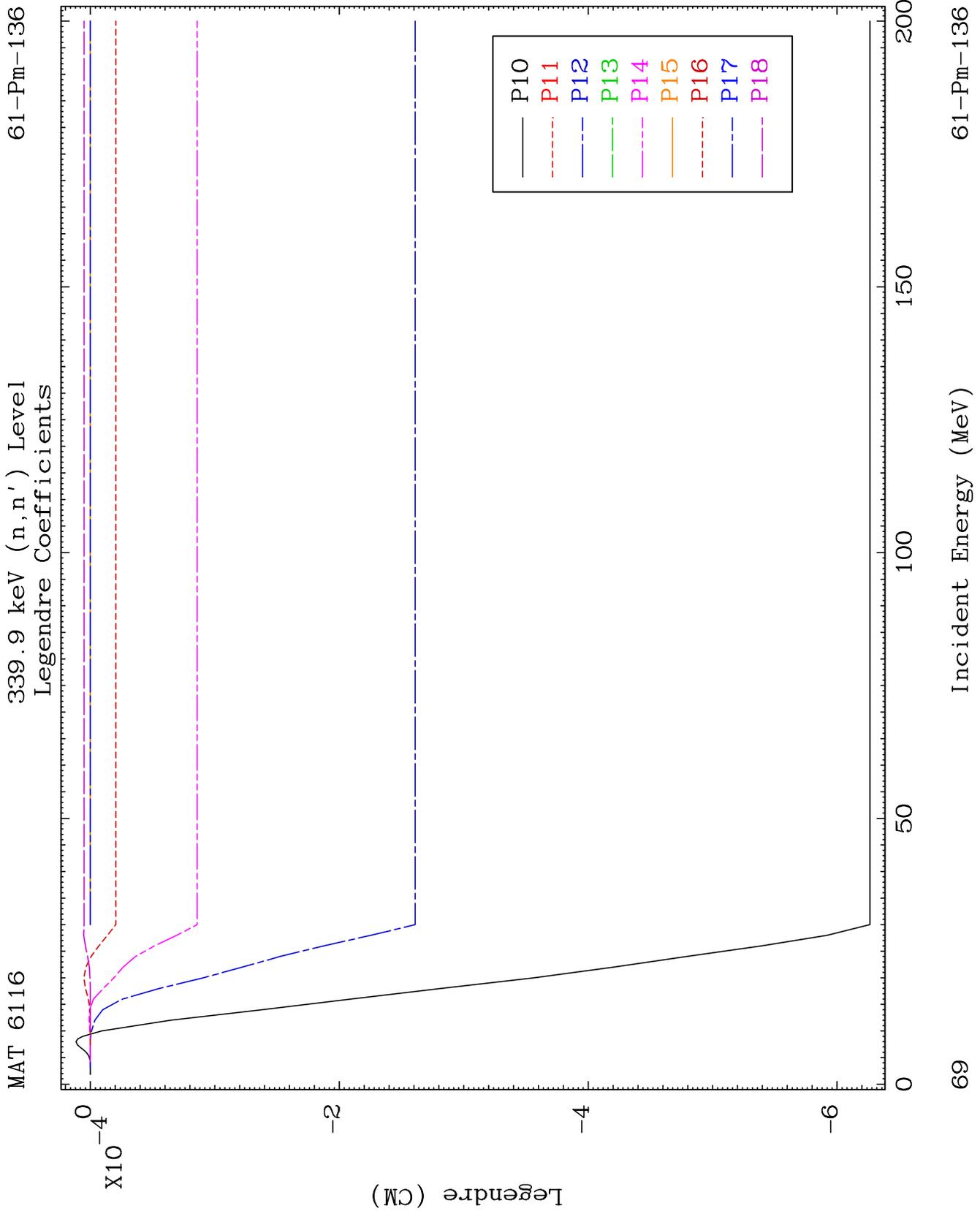
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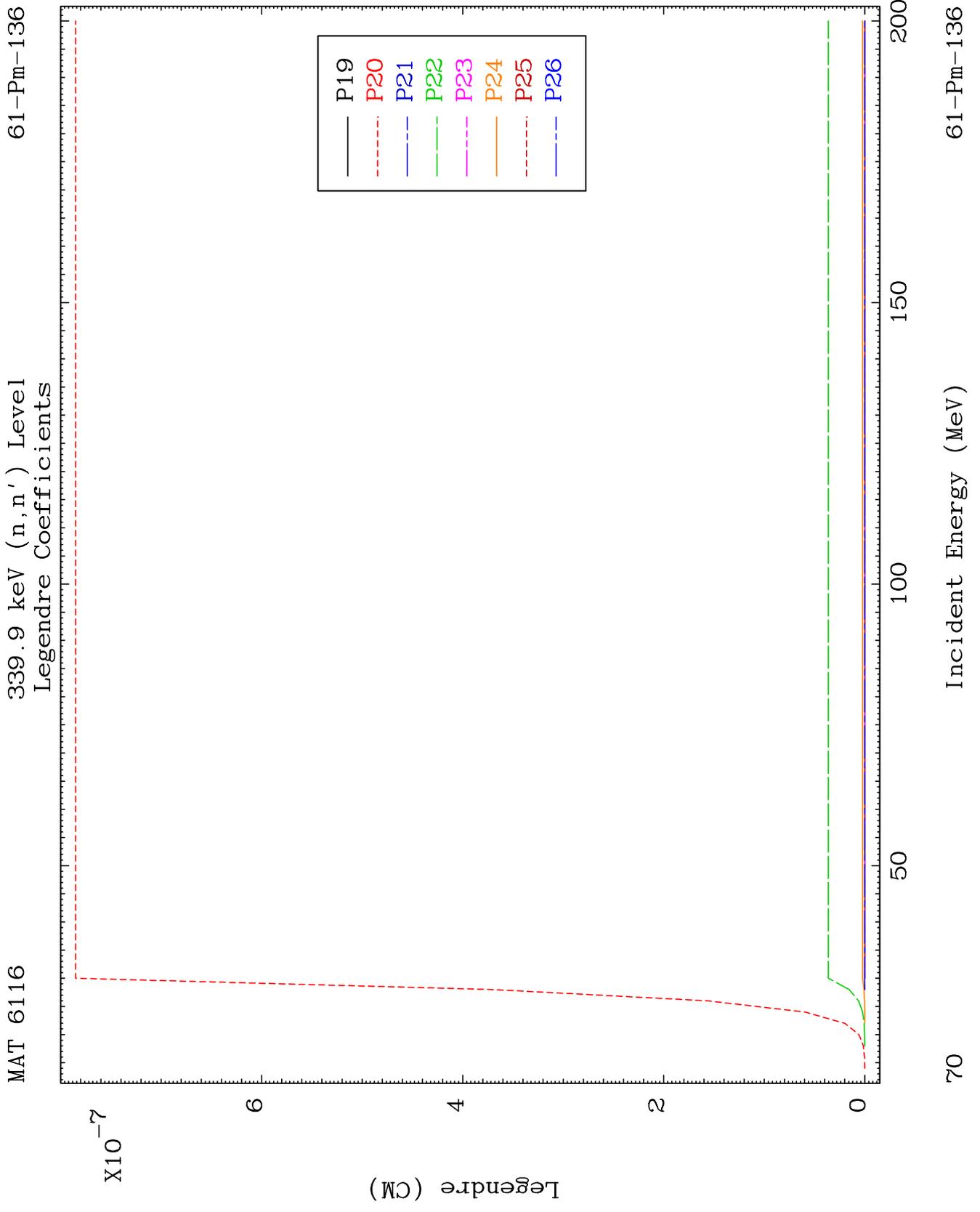








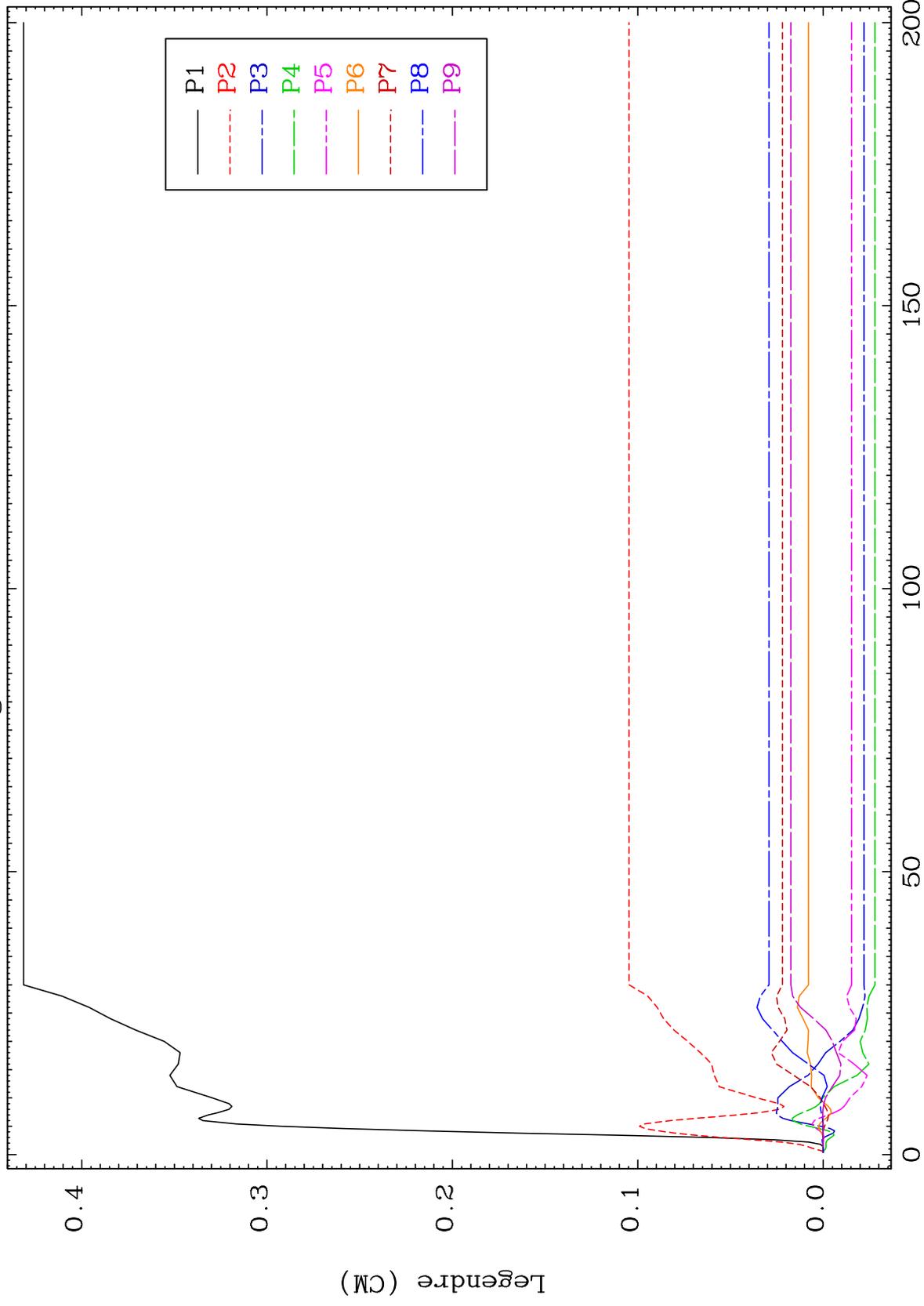




MAT 6116

344.8 keV (n, n') Level  
Legendre Coefficients

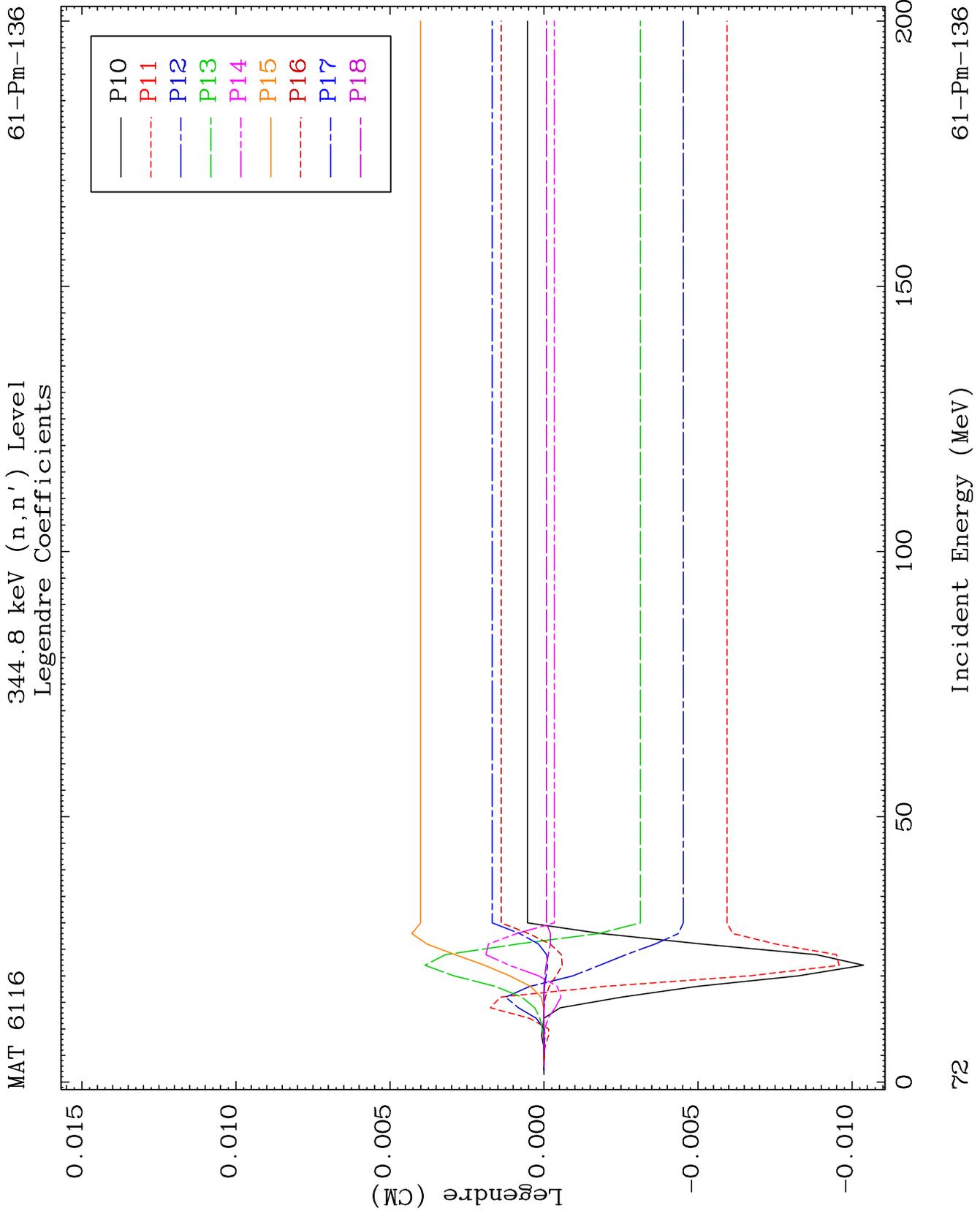
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71

Incident Energy (MeV)

61-Pm-136

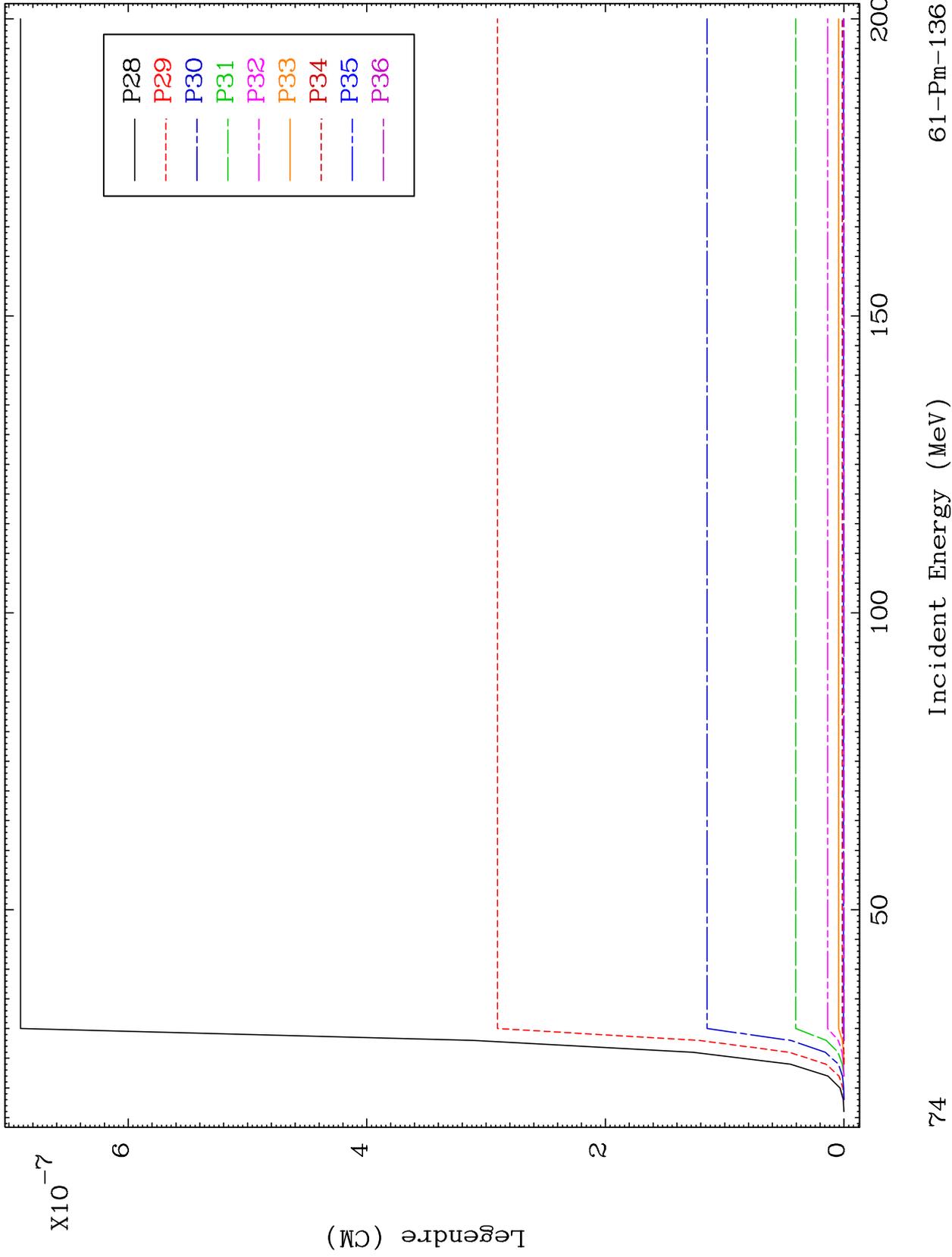




MAT 6116

344.8 keV (n,n') Level  
Legendre Coefficients

61-Pm-136

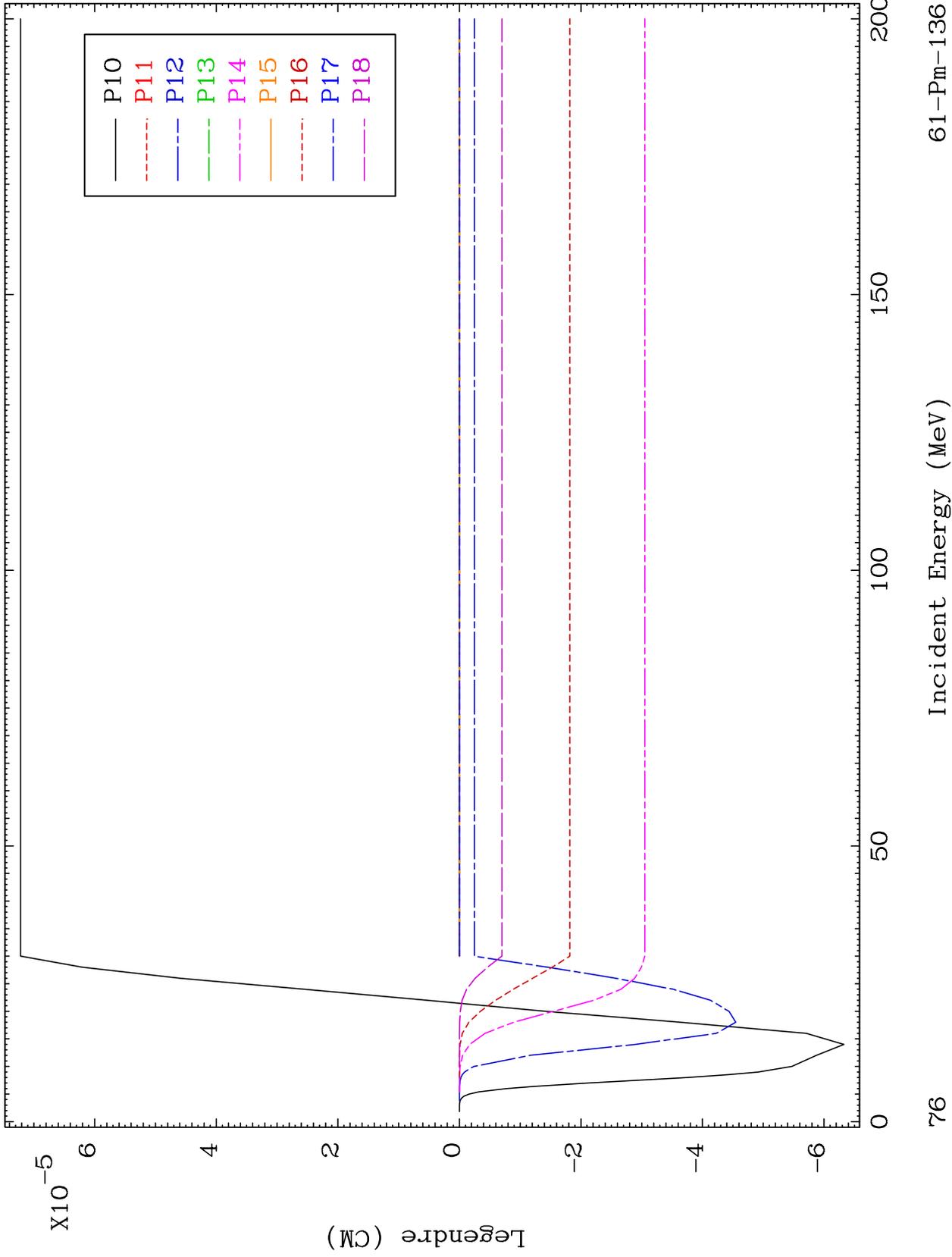




MAT 6116

348.7 keV (n,n') Level  
Legendre Coefficients

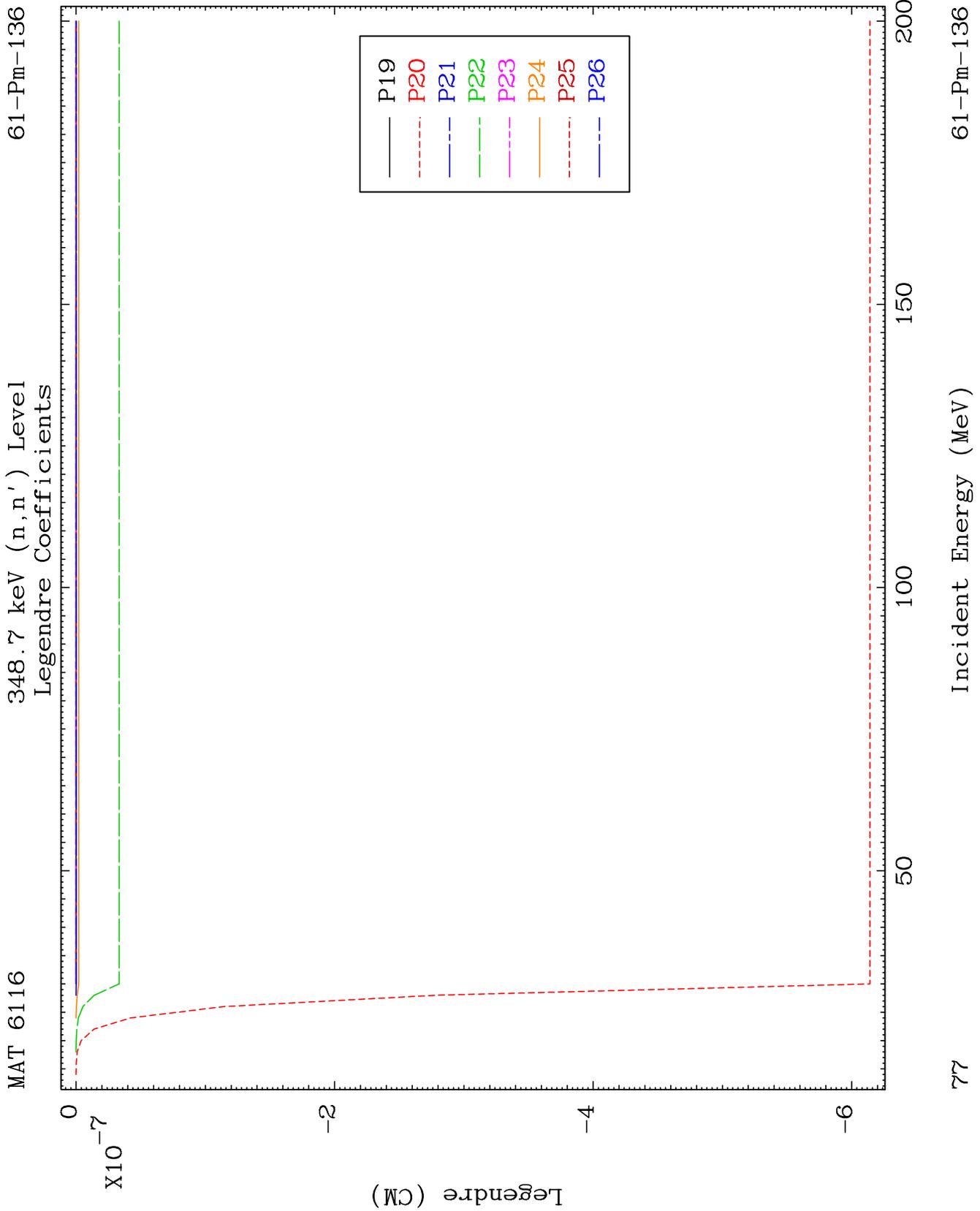
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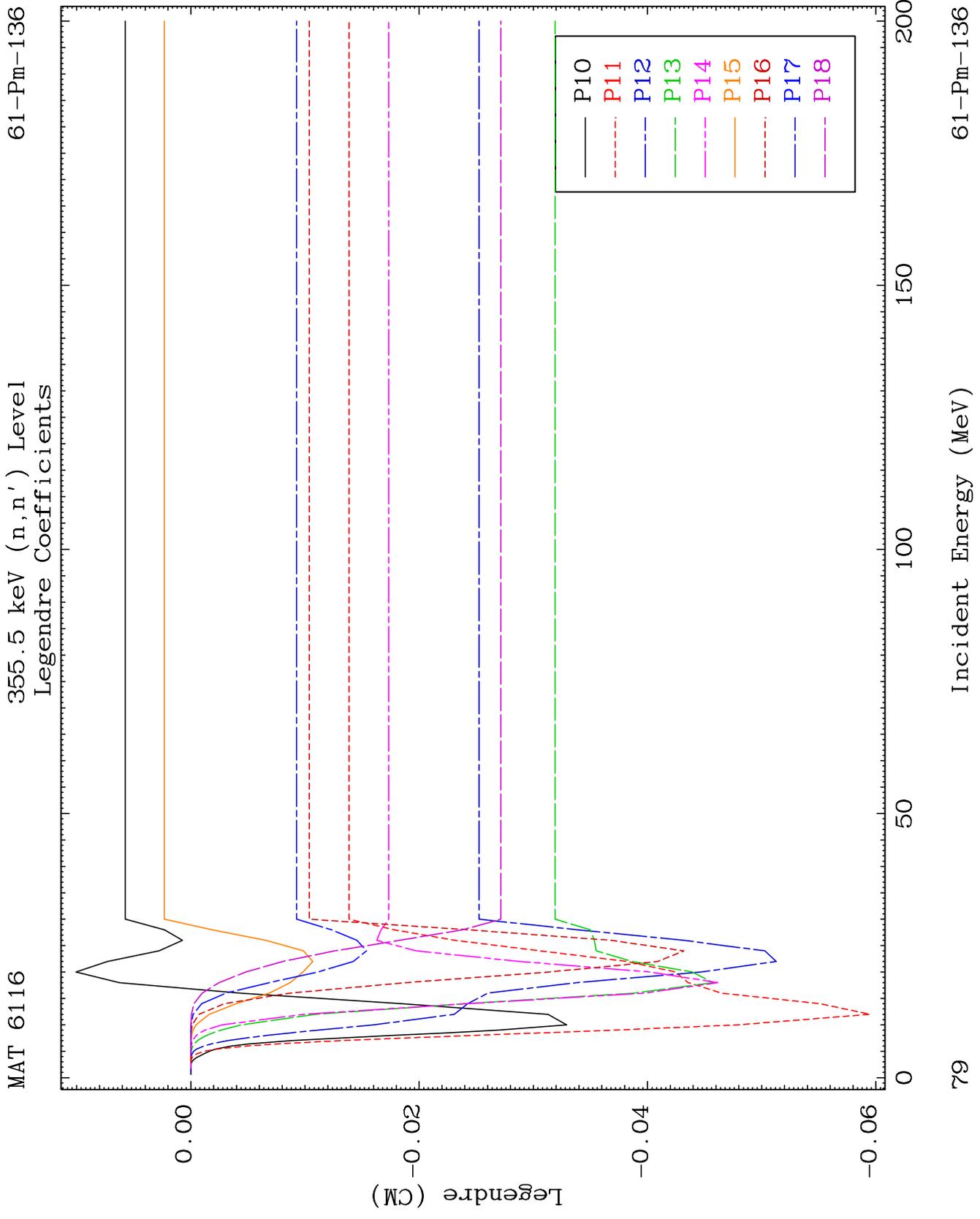
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Incident Energy (MeV)

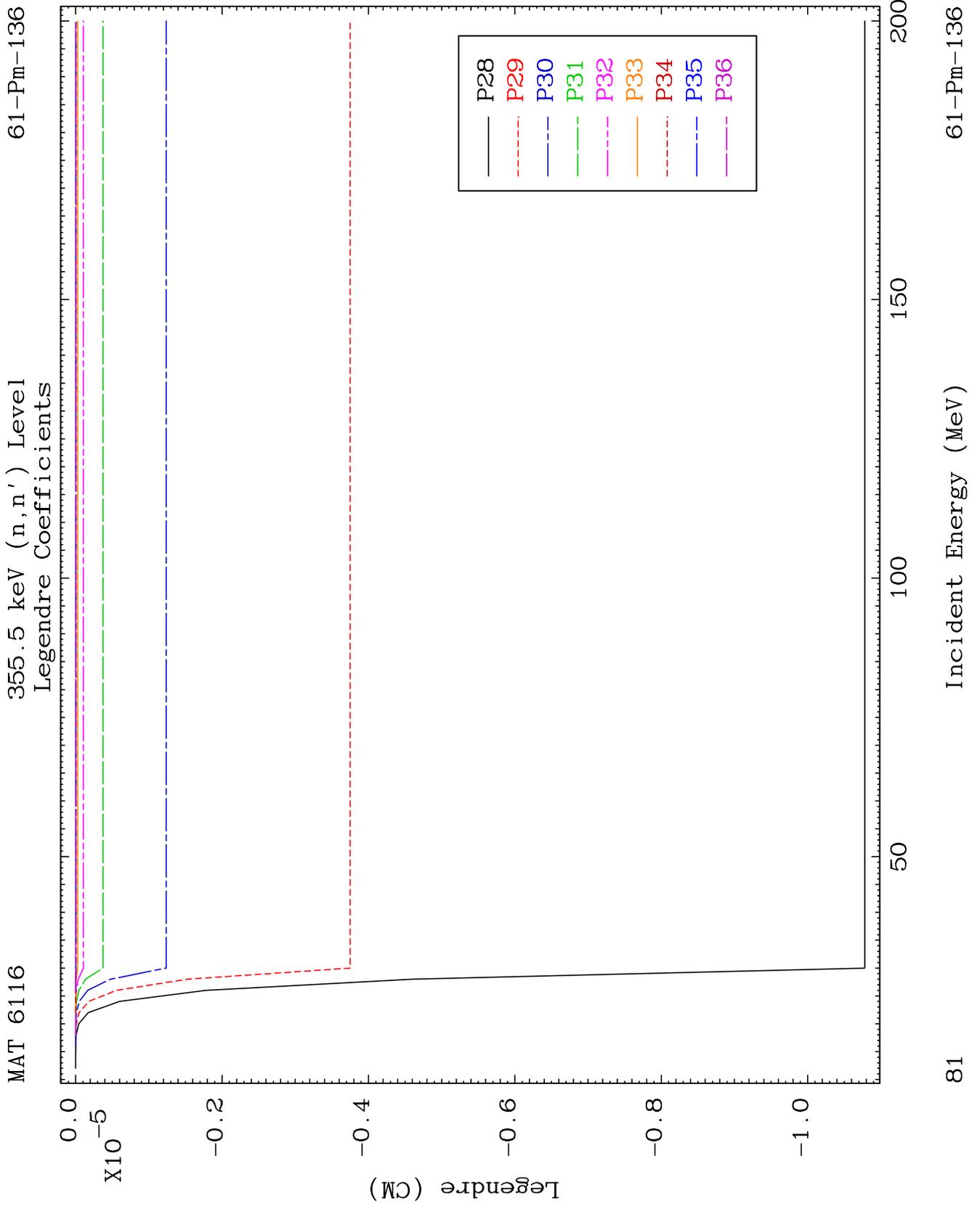
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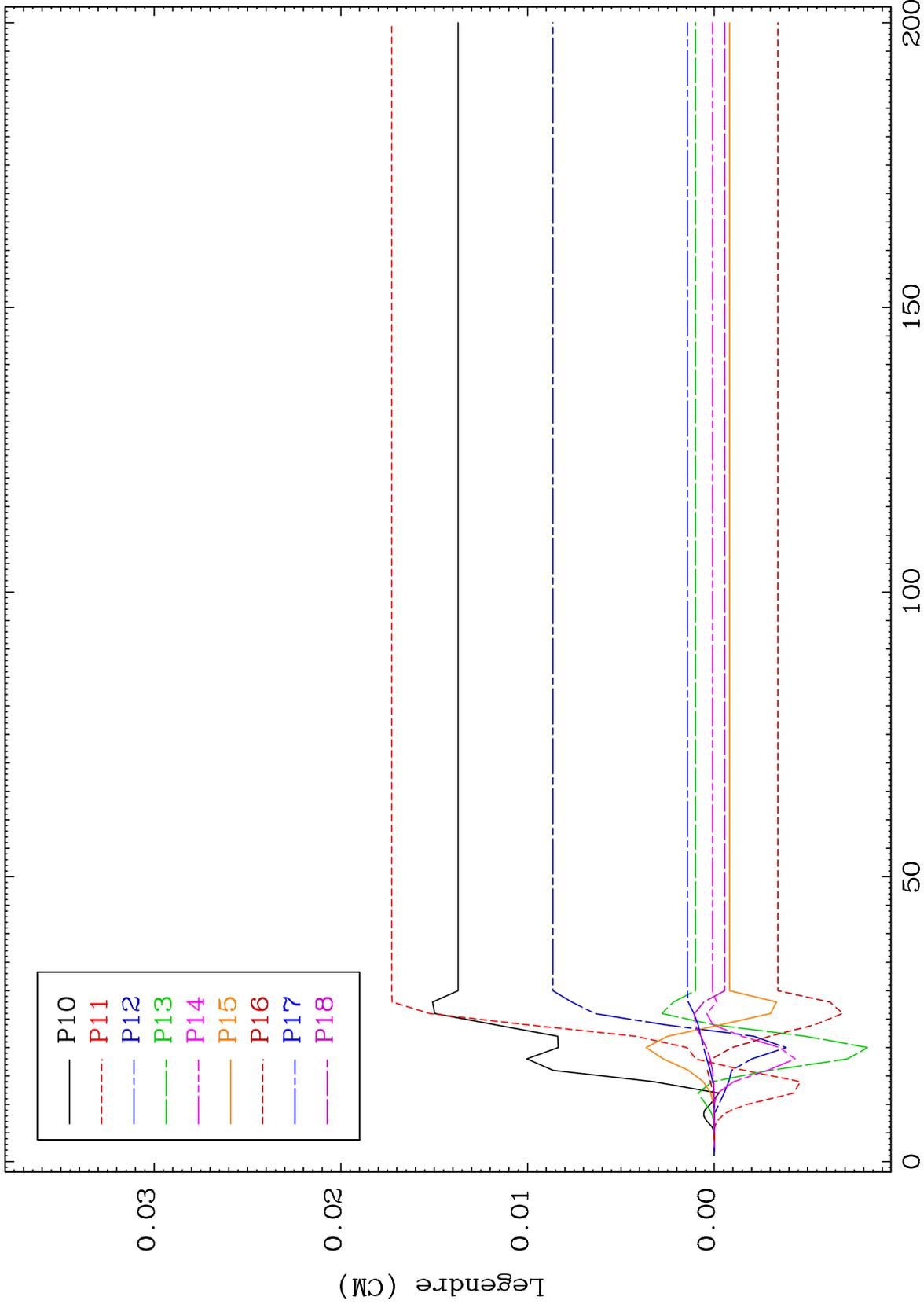




MAT 6116

359.9 keV (n,n') Level  
Legendre Coefficients

61-Pm-136



83

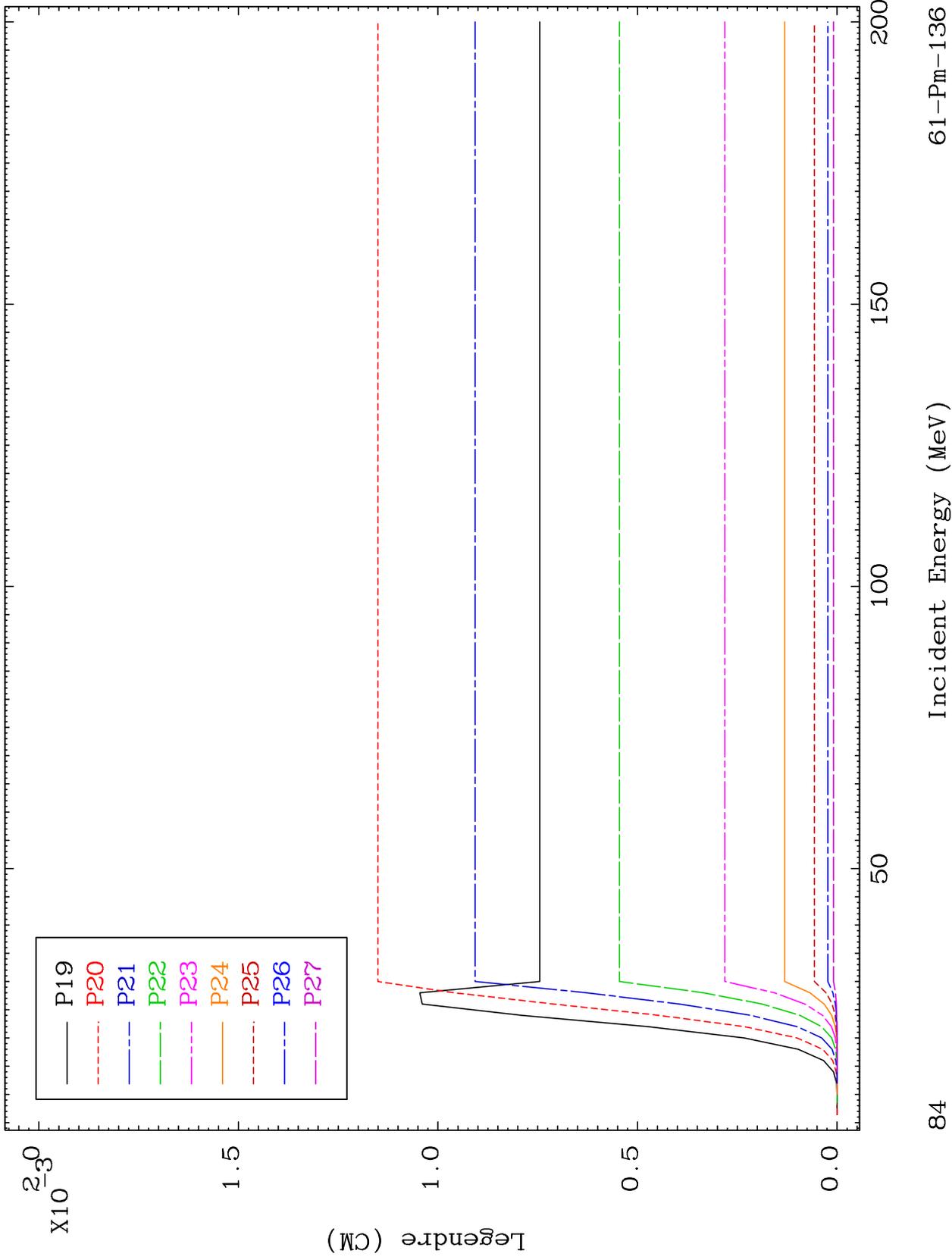
Incident Energy (MeV)

61-Pm-136

MAT 6116

359.9 keV (n,n') Level  
Legendre Coefficients

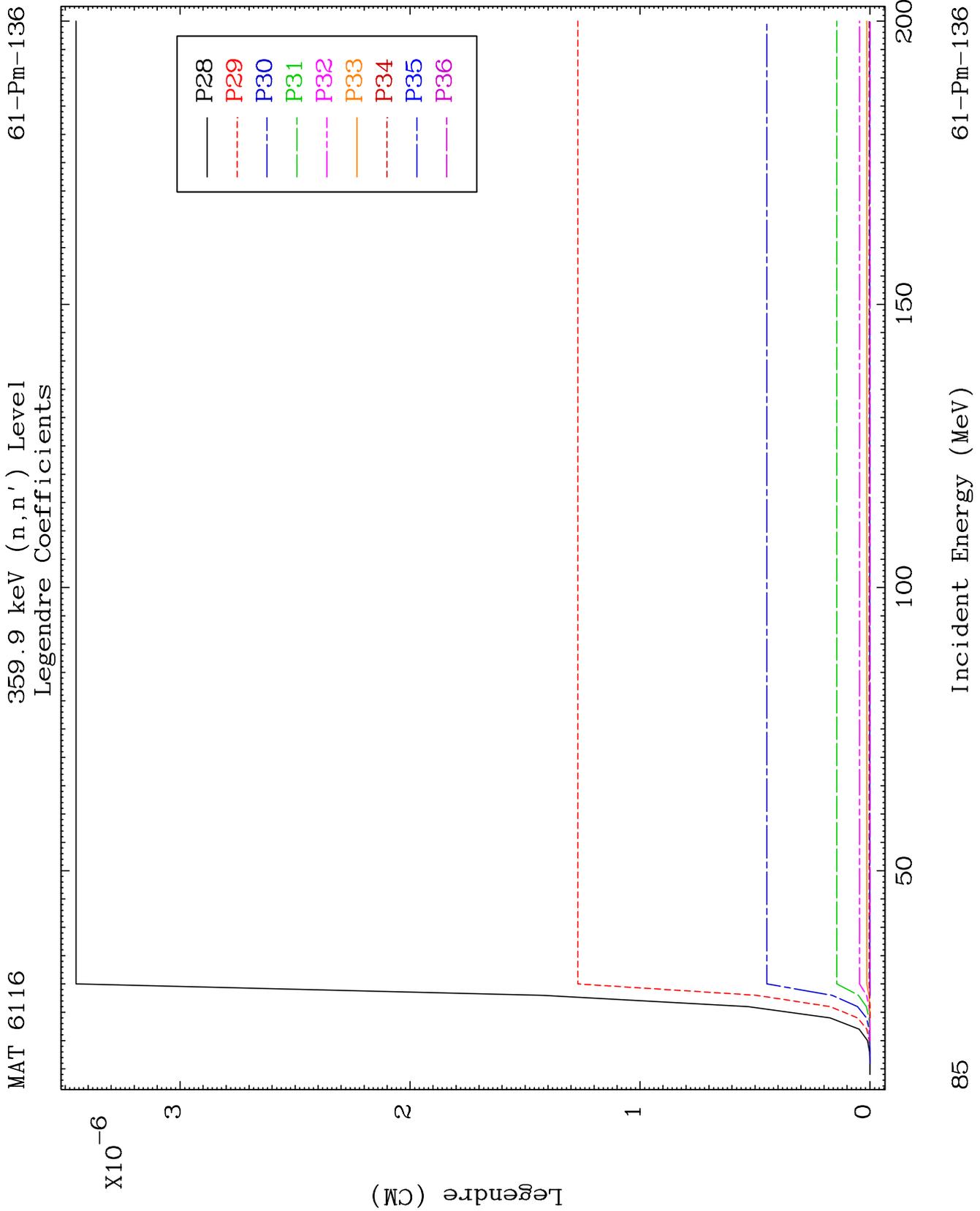
61-Pm-136



84

Incident Energy (MeV)

61-Pm-136

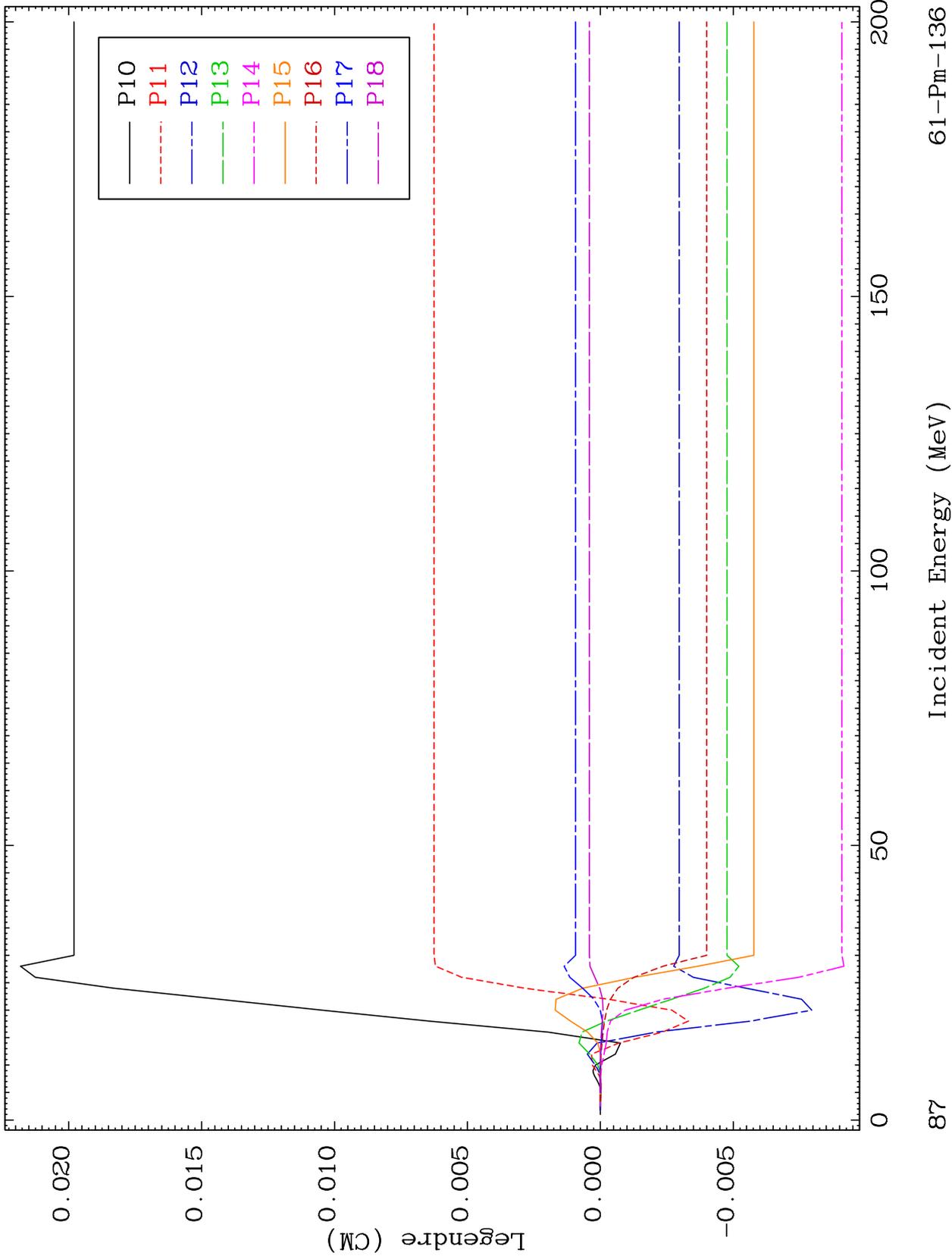




MAT 6116

366.9 keV (n,n') Level  
Legendre Coefficients

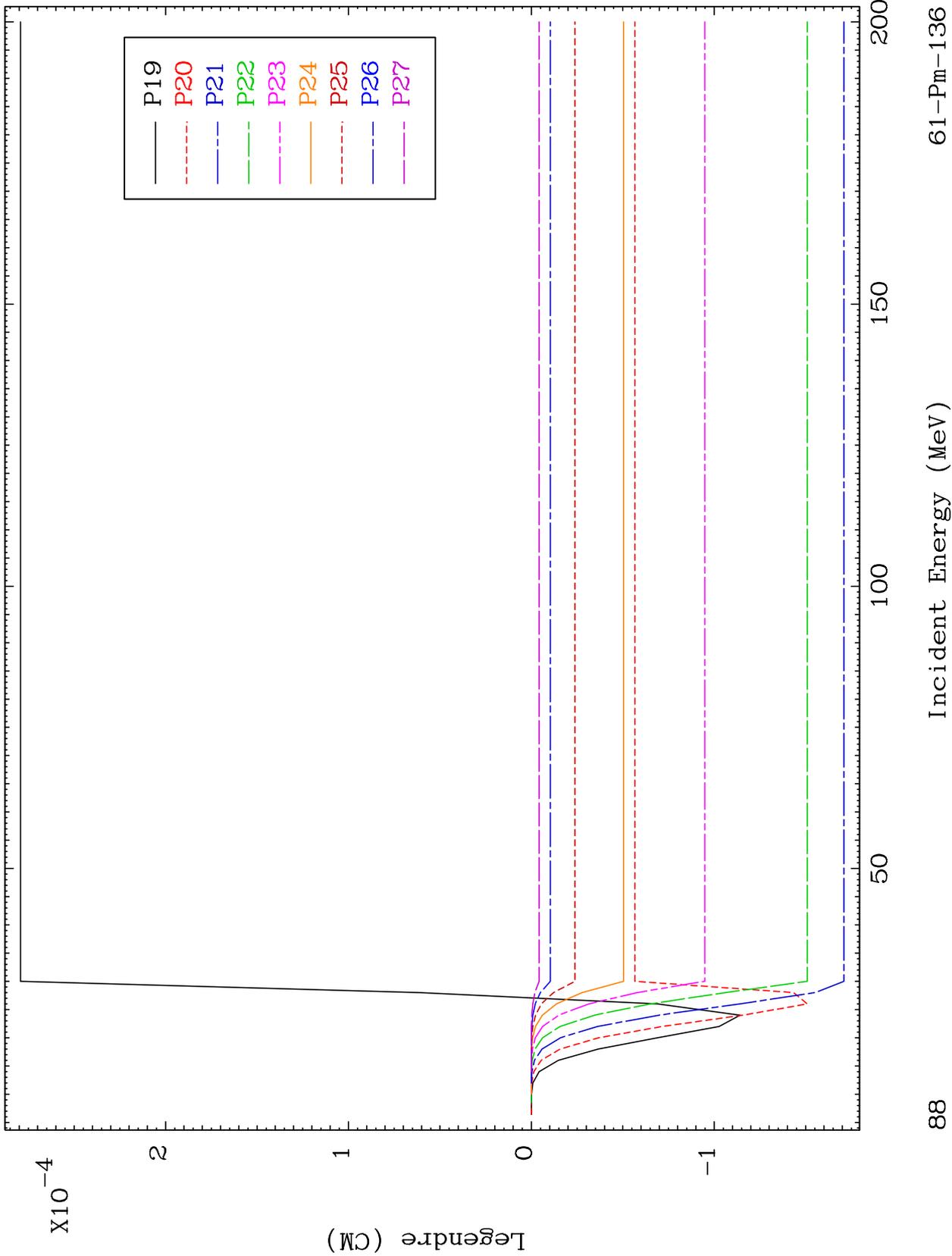
61-Pm-136



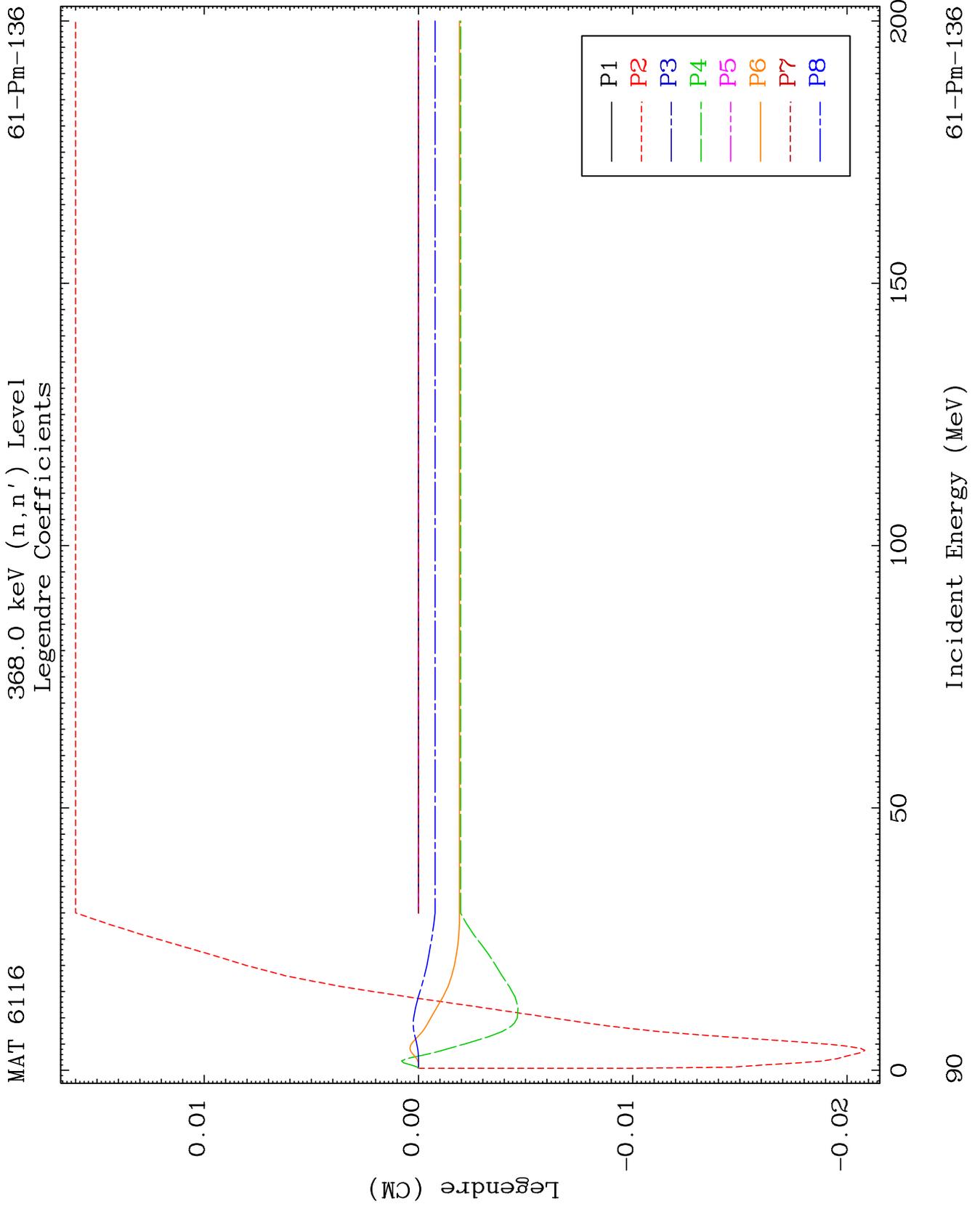
87

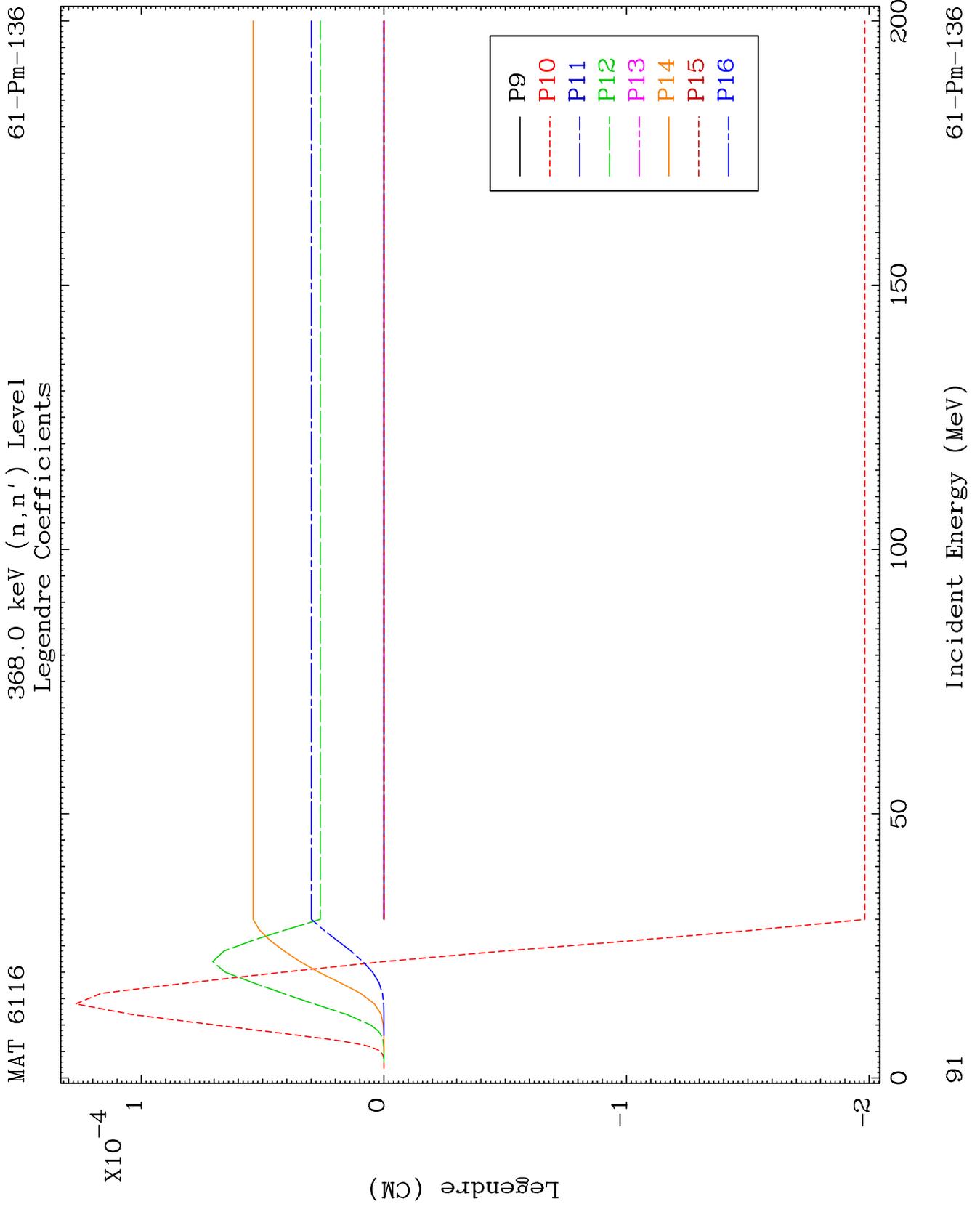
Incident Energy (MeV)

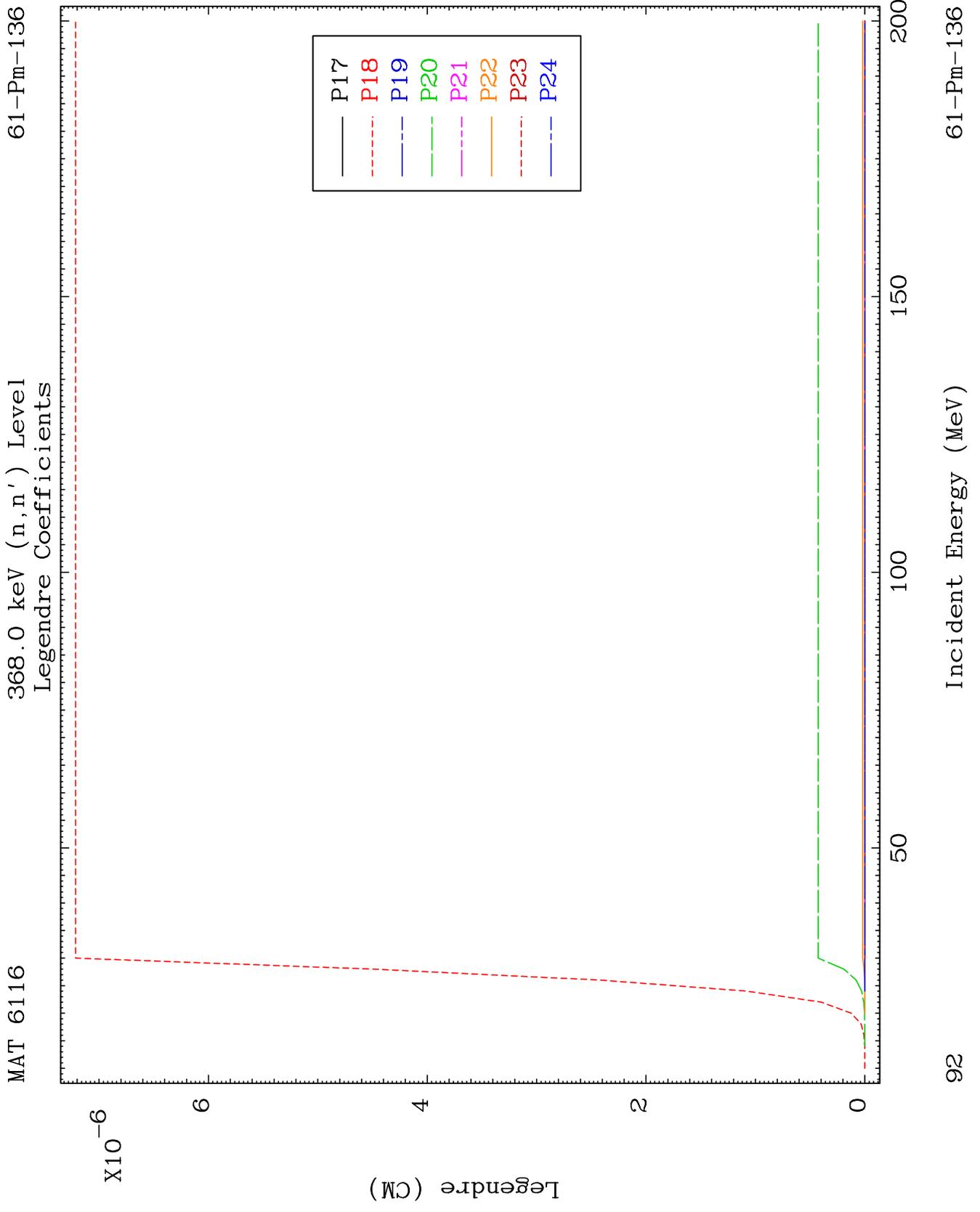
61-Pm-136







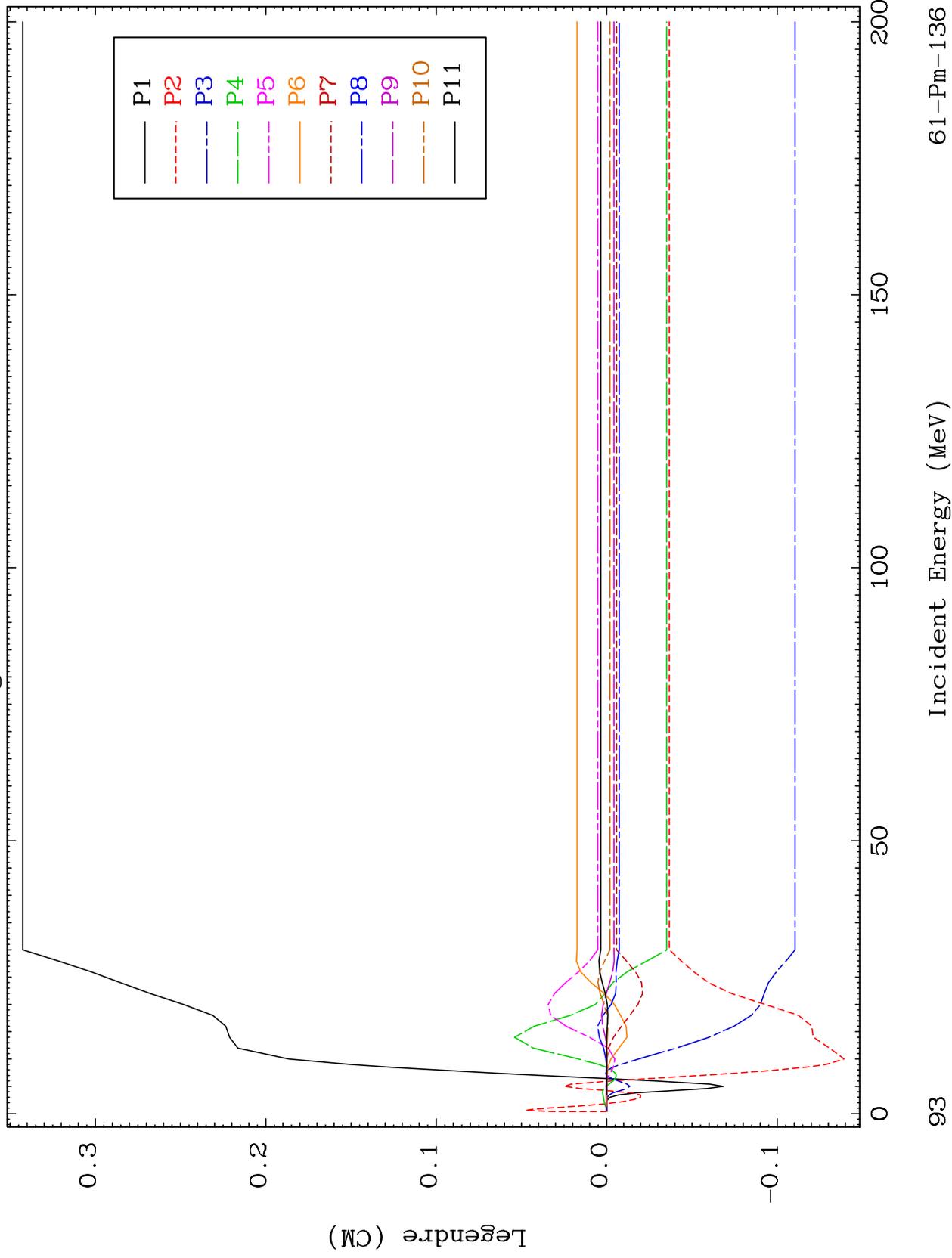


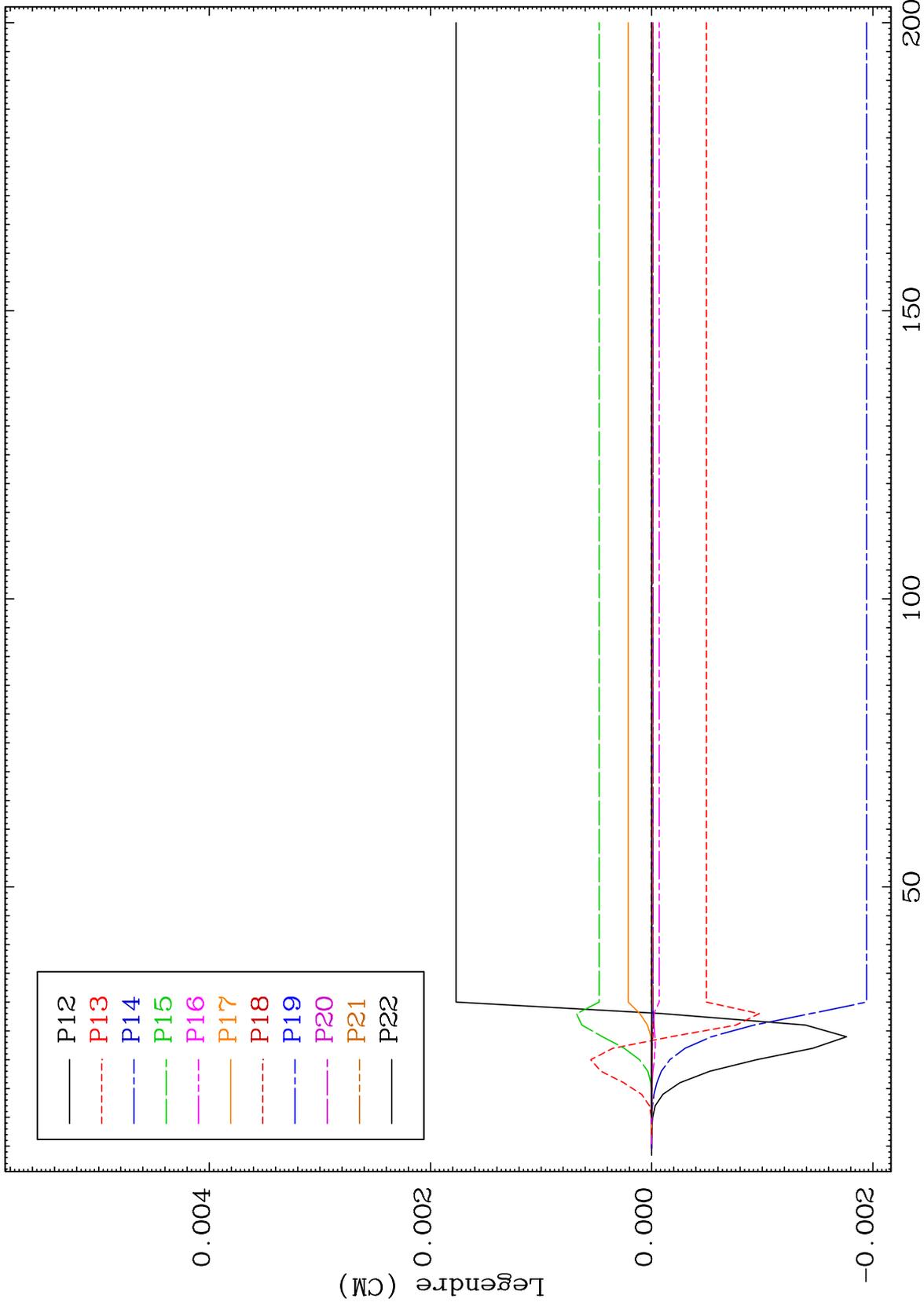


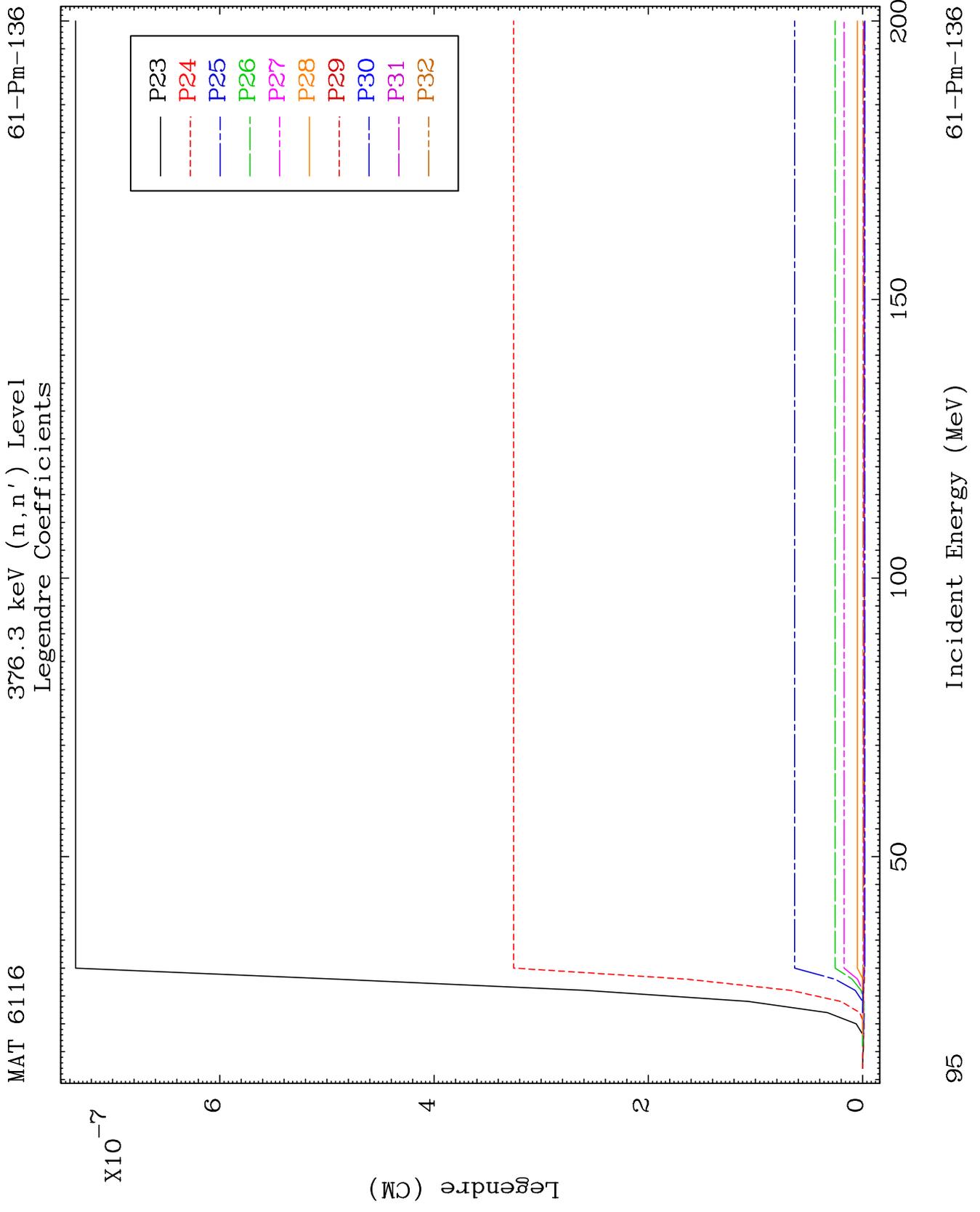
MAT 6116

376.3 keV (n,n') Level  
Legendre Coefficients

61-Pm-136





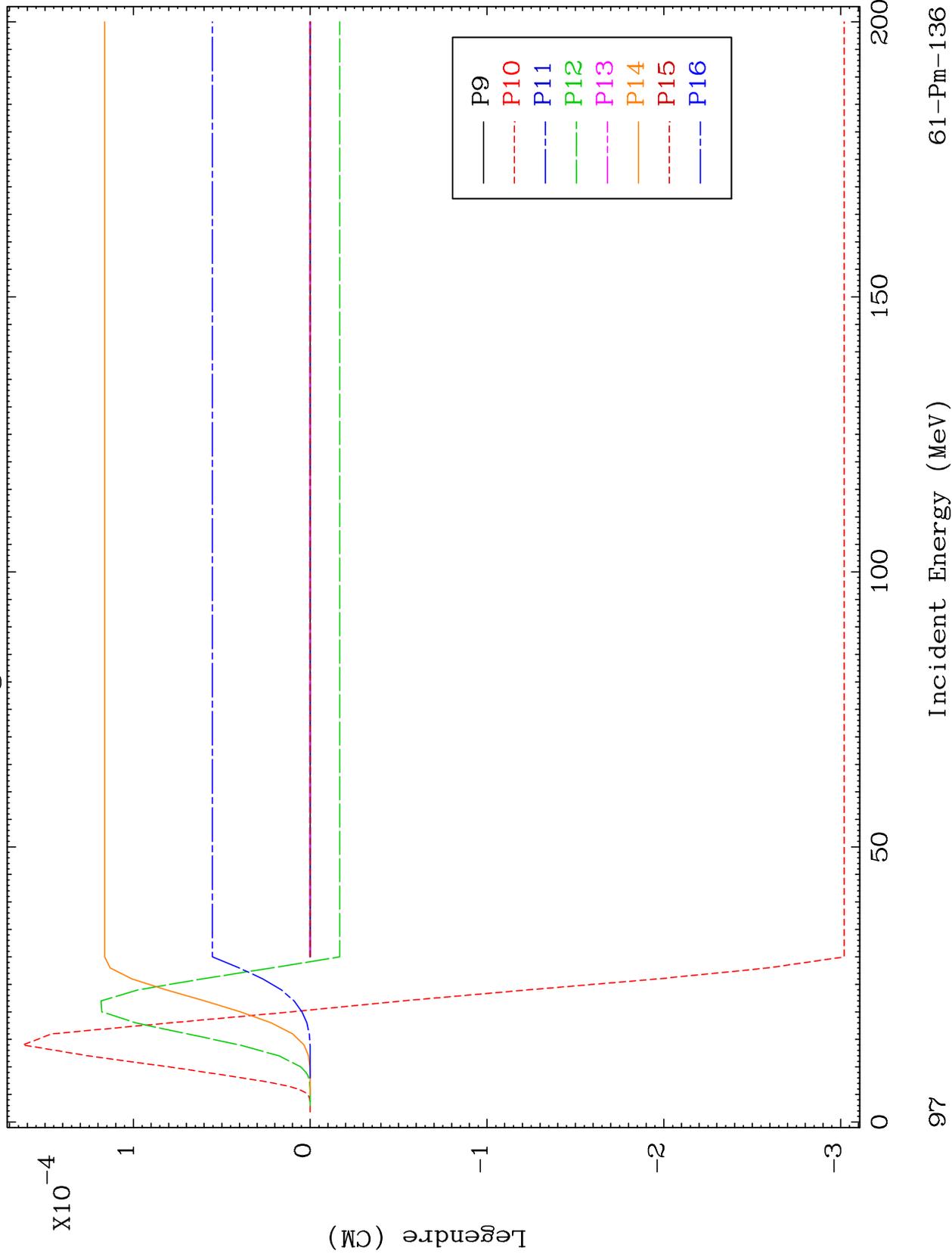




MAT 6116

383.6 keV (n,n') Level  
Legendre Coefficients

61-Pm-136

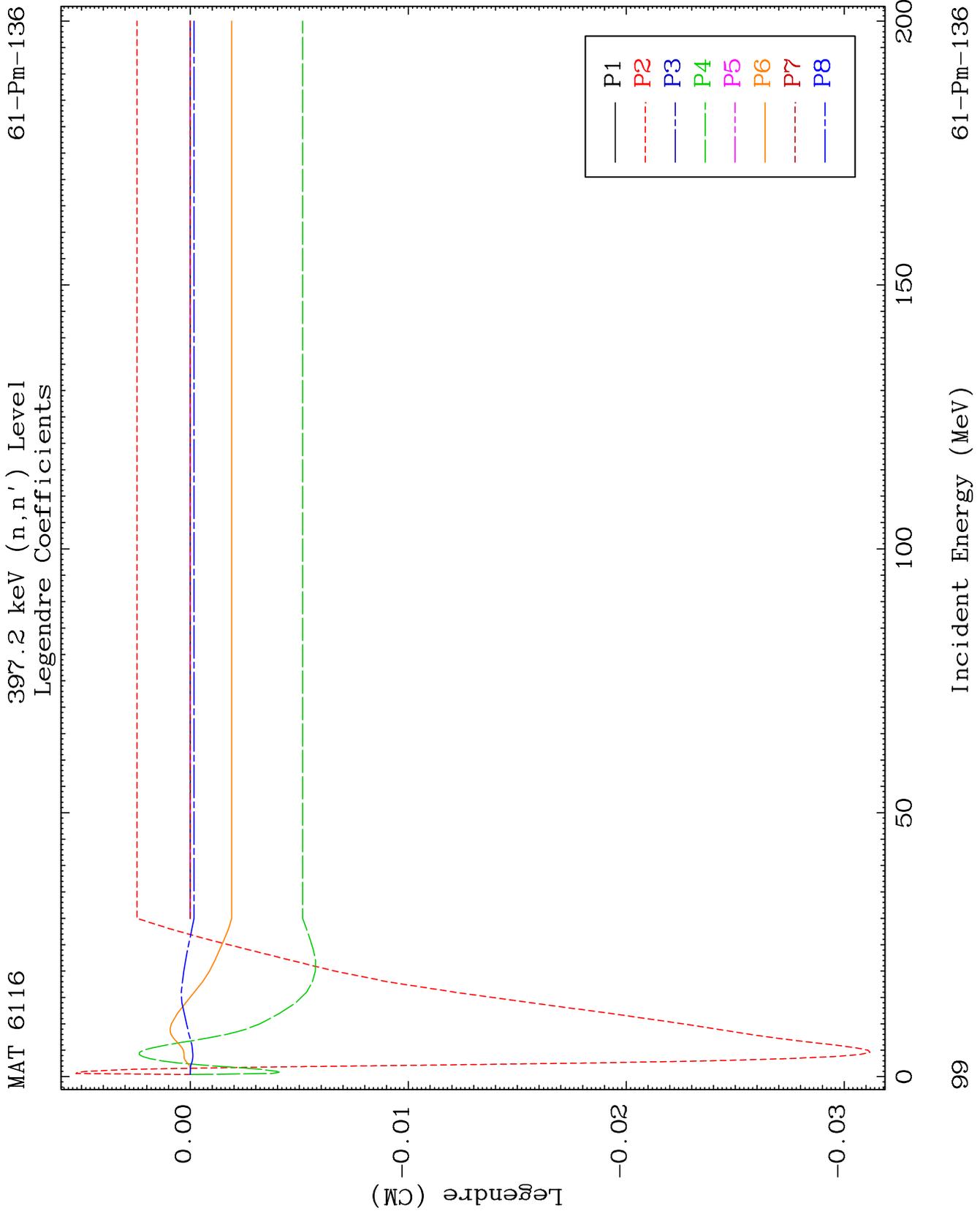


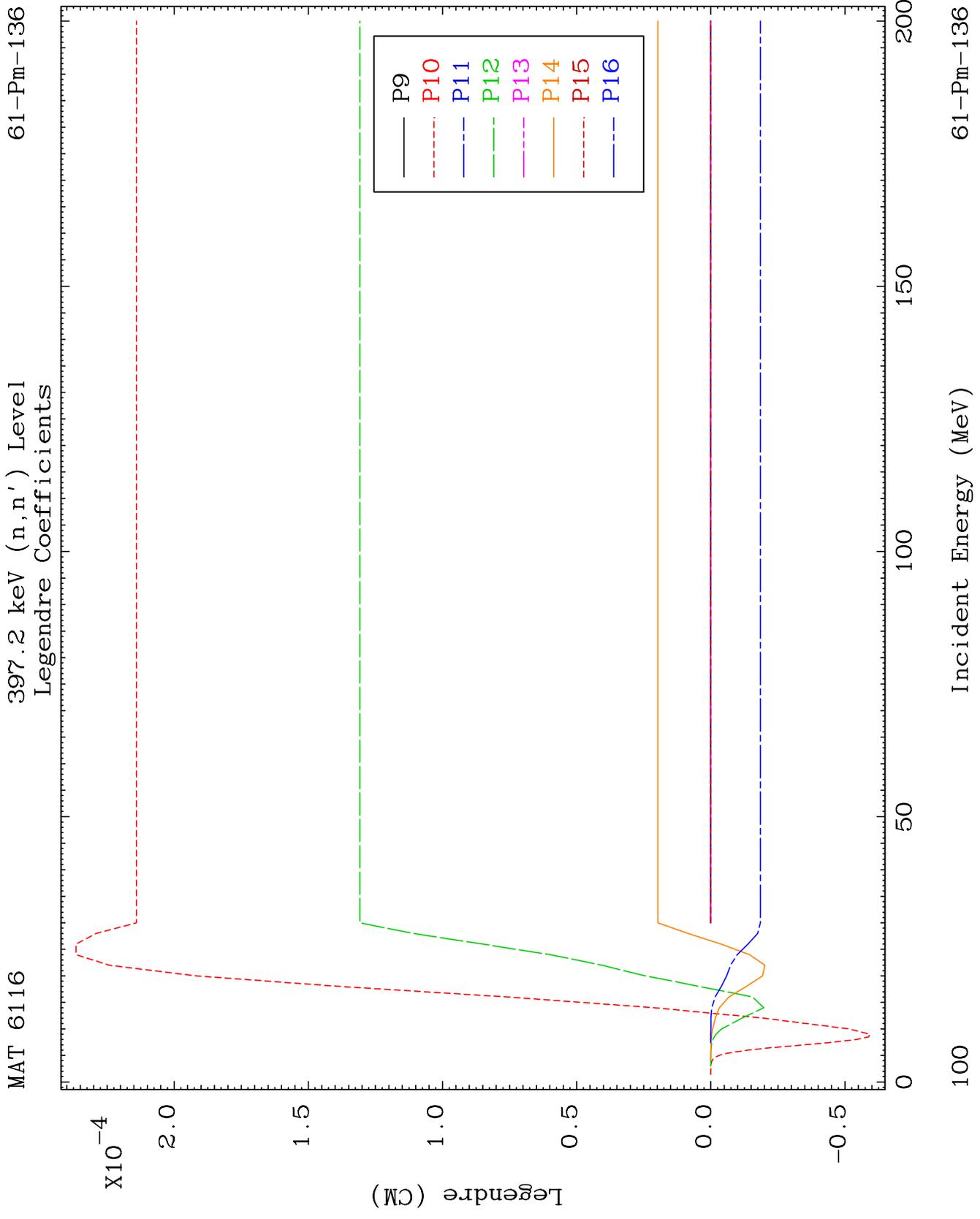
97

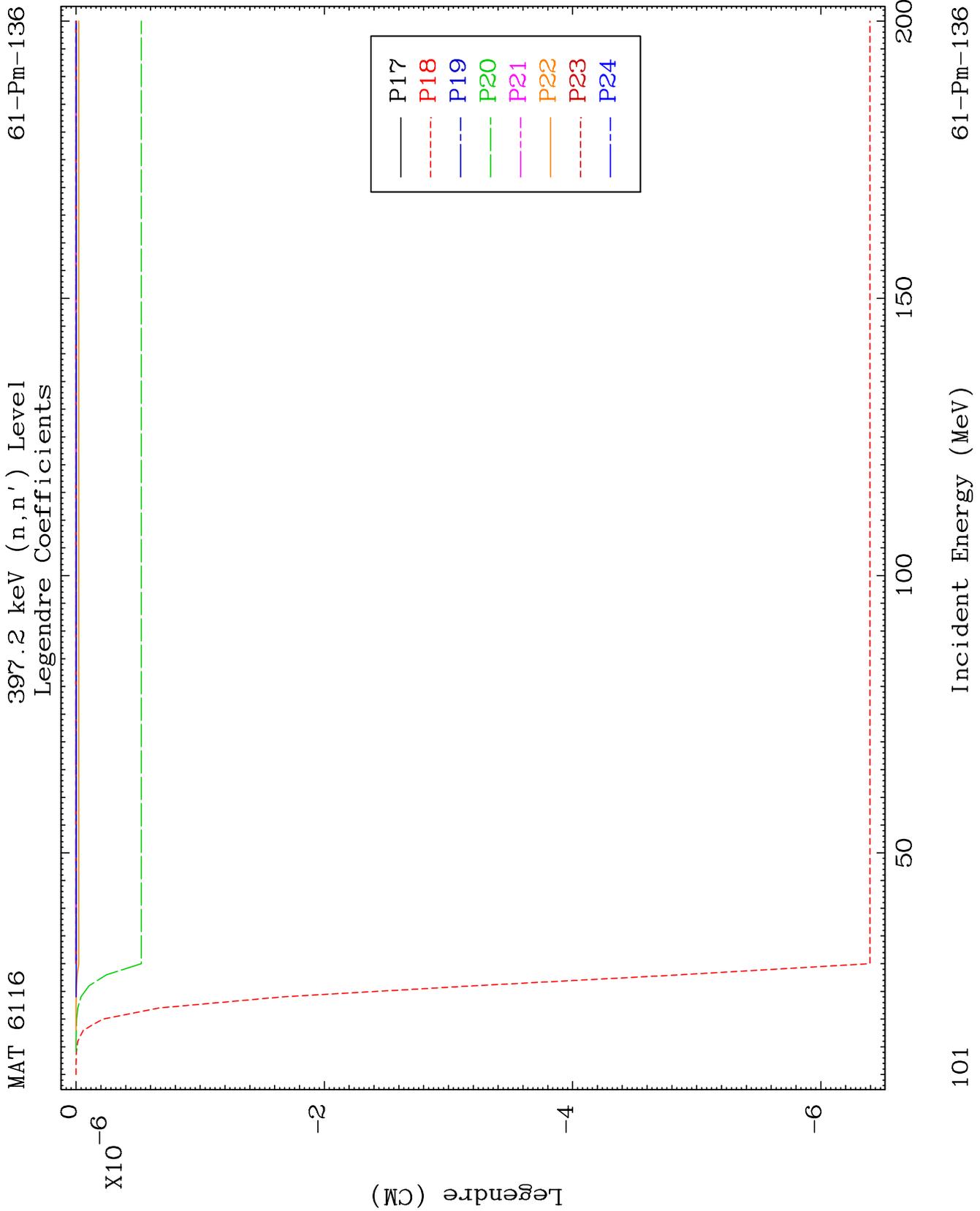
Incident Energy (MeV)

61-Pm-136





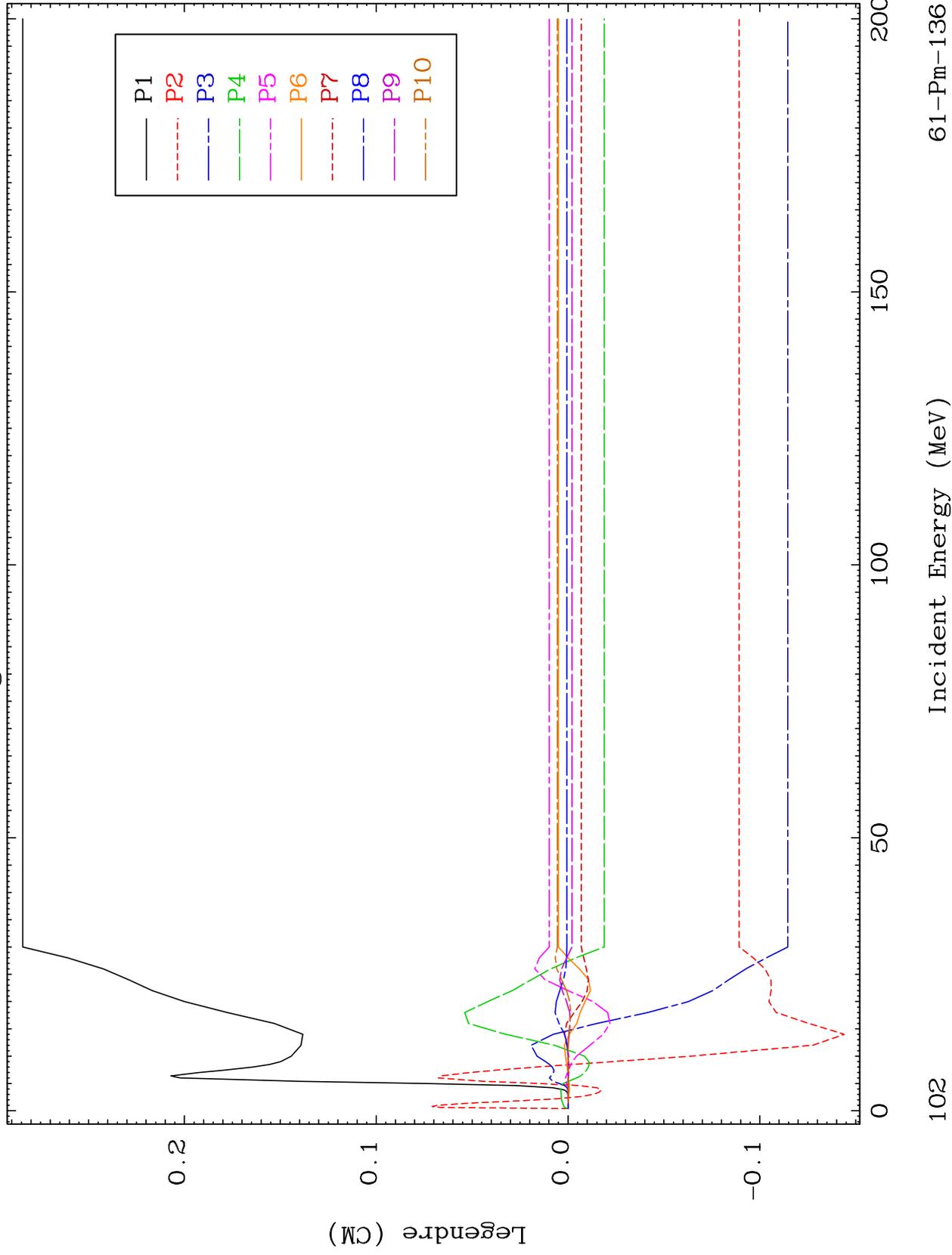




MAT 6116

402.8 keV (n,n') Level  
Legendre Coefficients

61-Pm-136



61-Pm-136

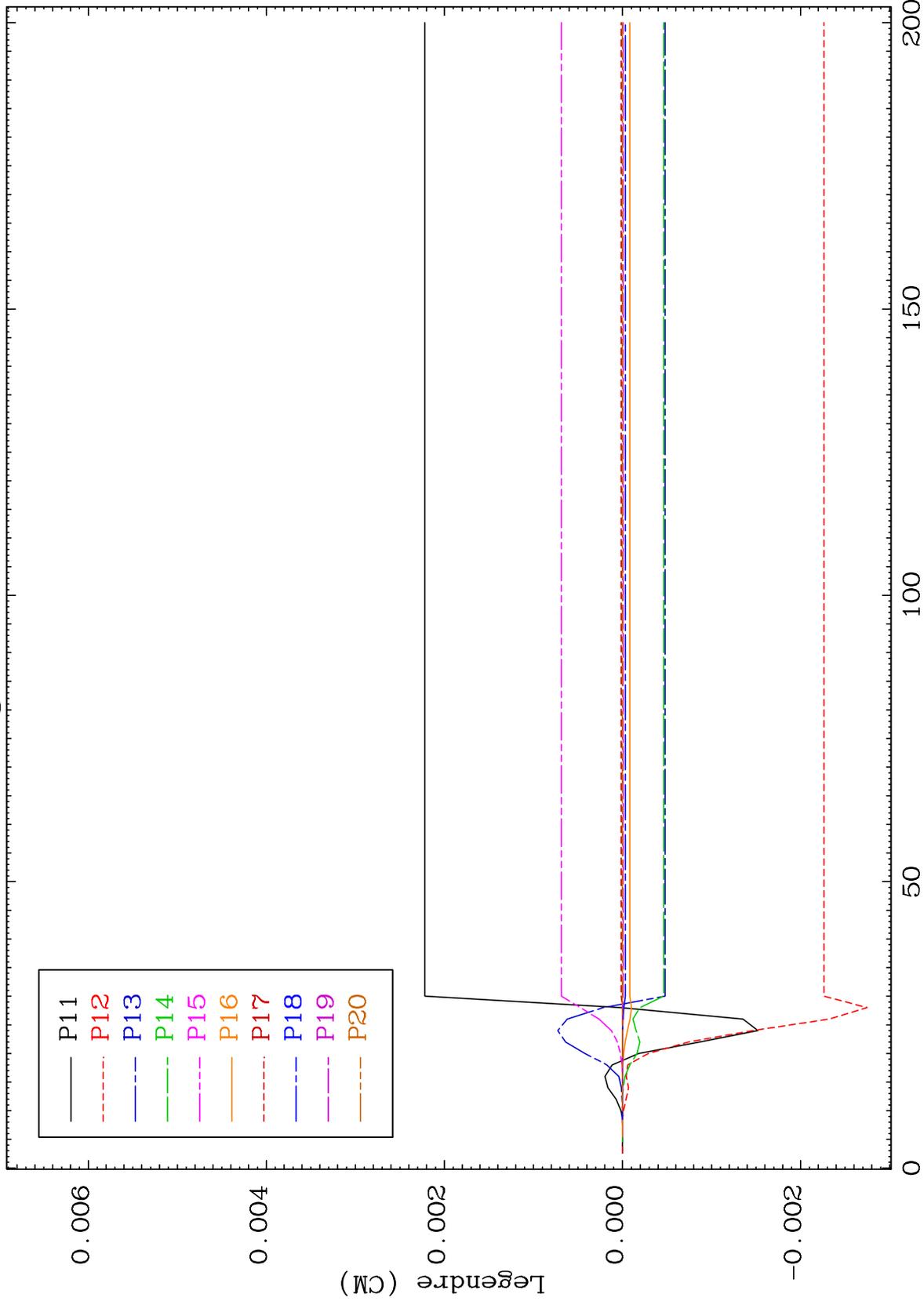
Incident Energy (MeV)

102

MAT 6116

402.8 keV (n,n') Level  
Legendre Coefficients

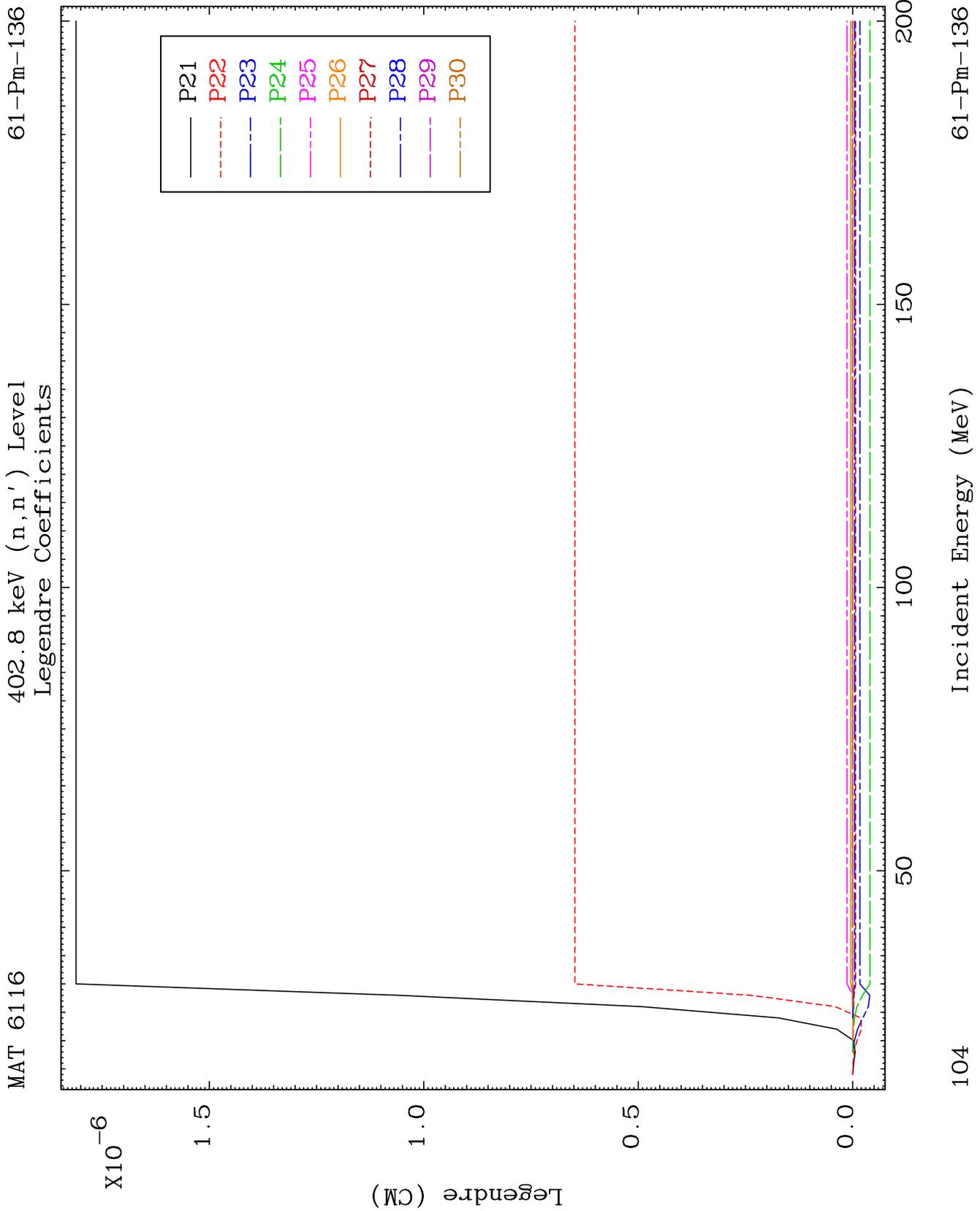
61-Pm-136



103

Incident Energy (MeV)

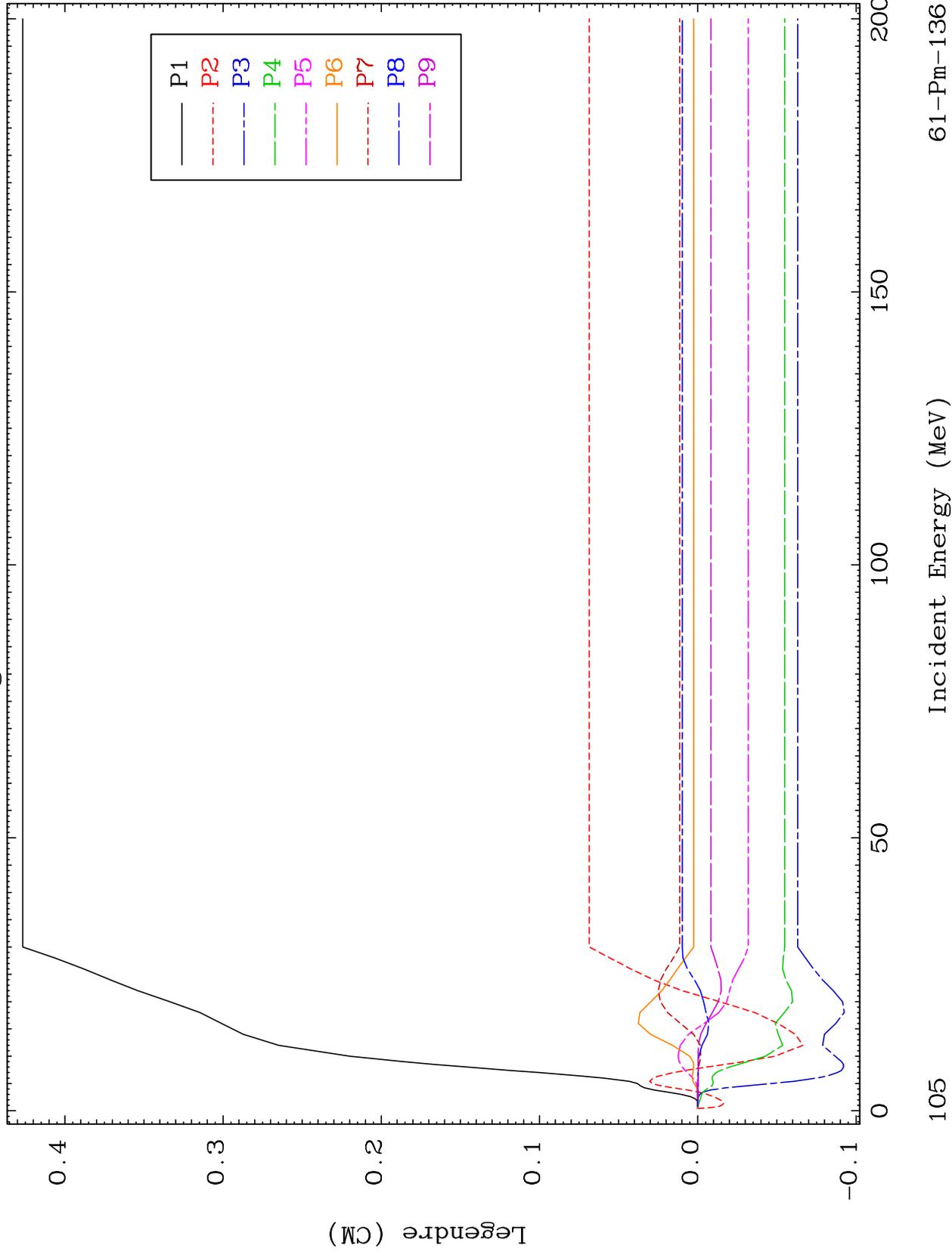
61-Pm-136



MAT 6116

407.4 keV (n,n') Level  
Legendre Coefficients

61-Pm-136



61-Pm-136

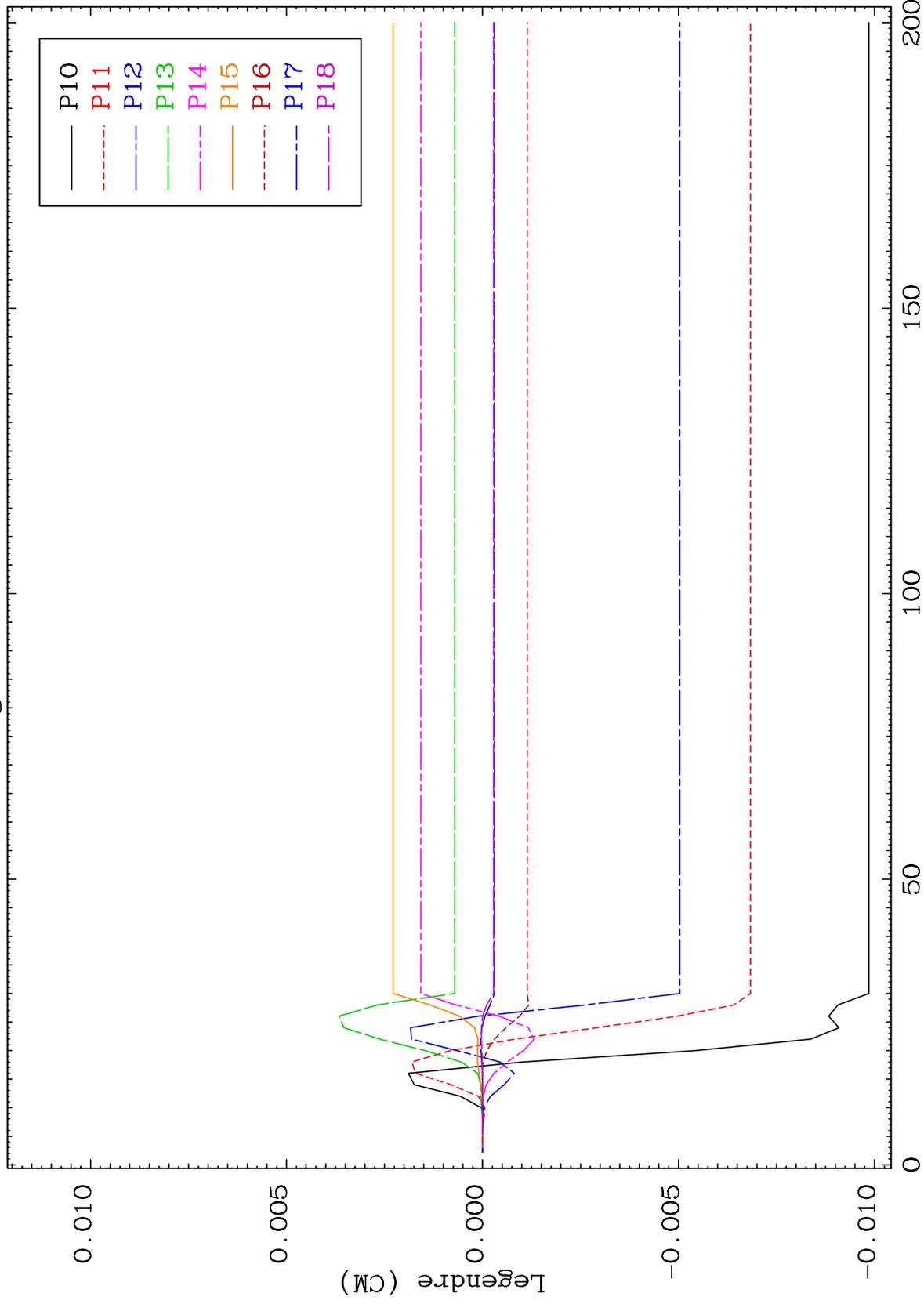
Incident Energy (MeV)

105

MAT 6116

407.4 keV (n,n') Level  
Legendre Coefficients

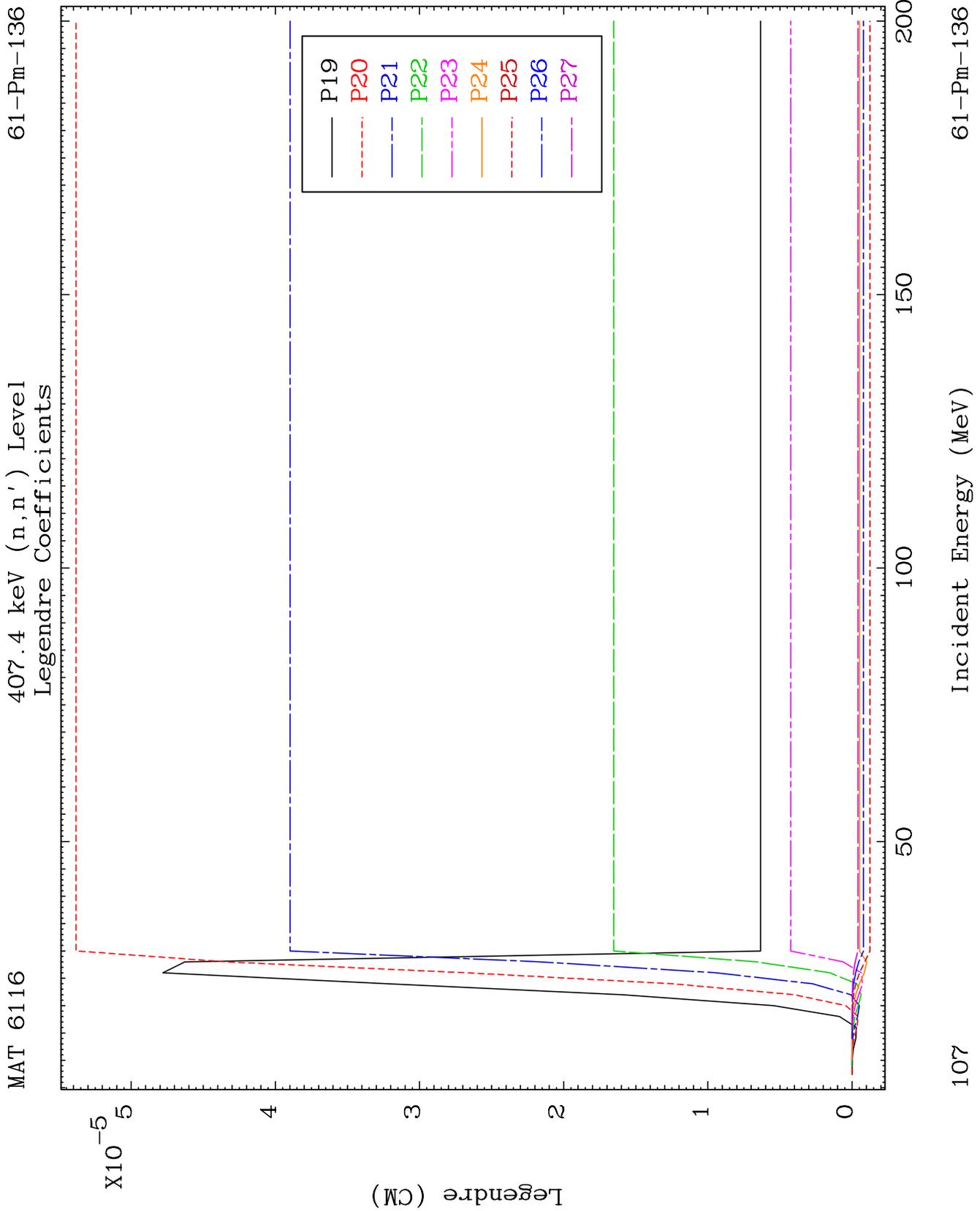
61-Pm-136

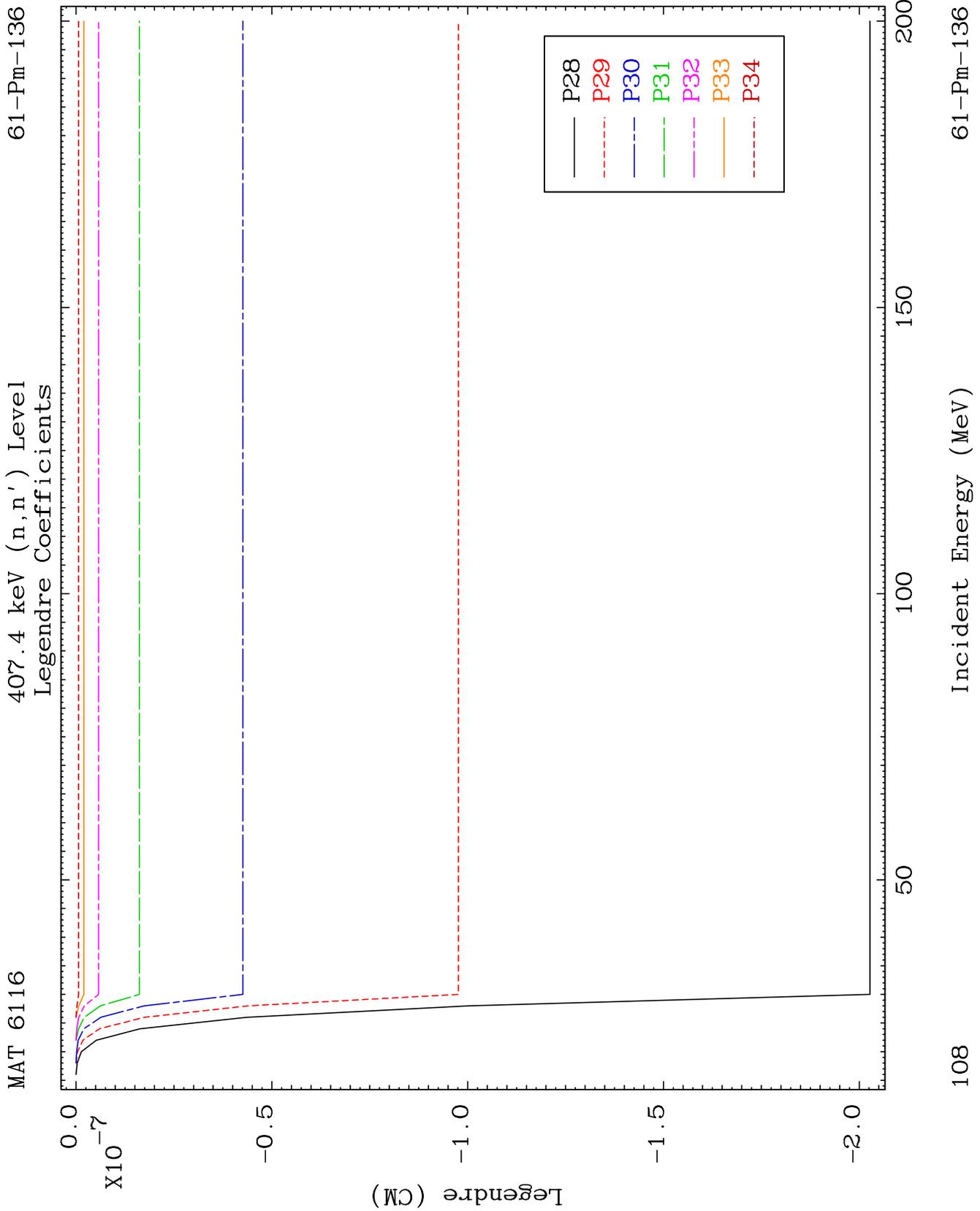


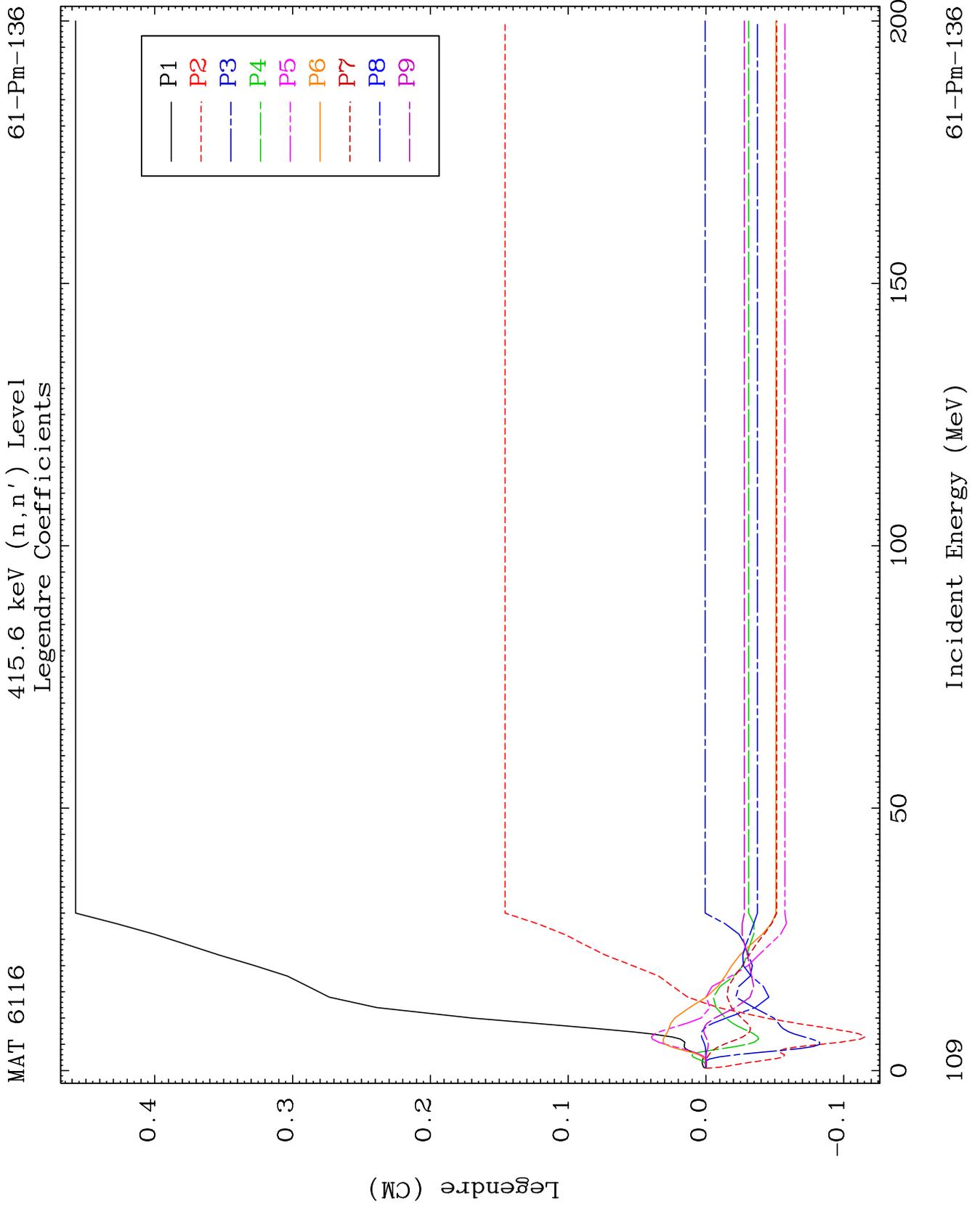
106

Incident Energy (MeV)

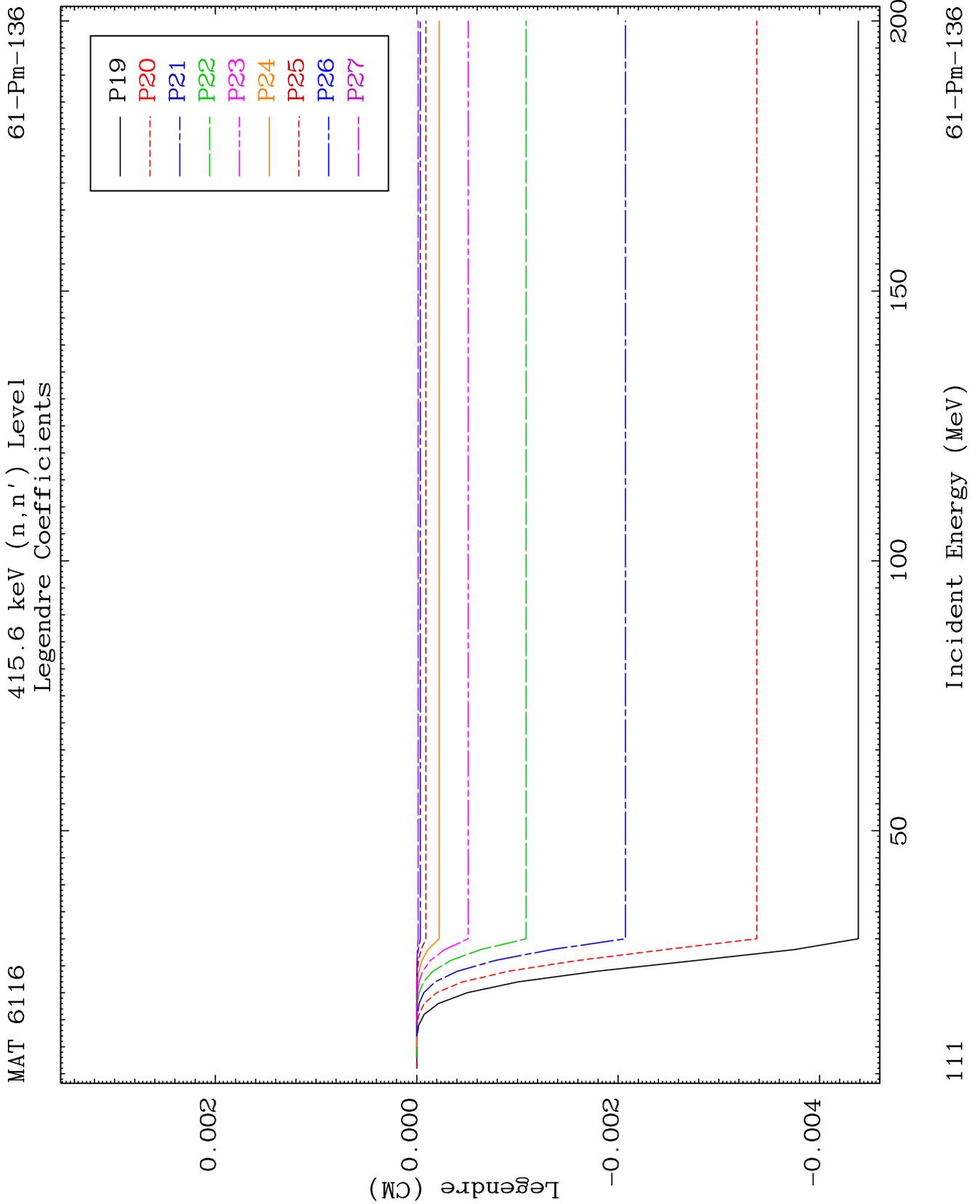
61-Pm-136

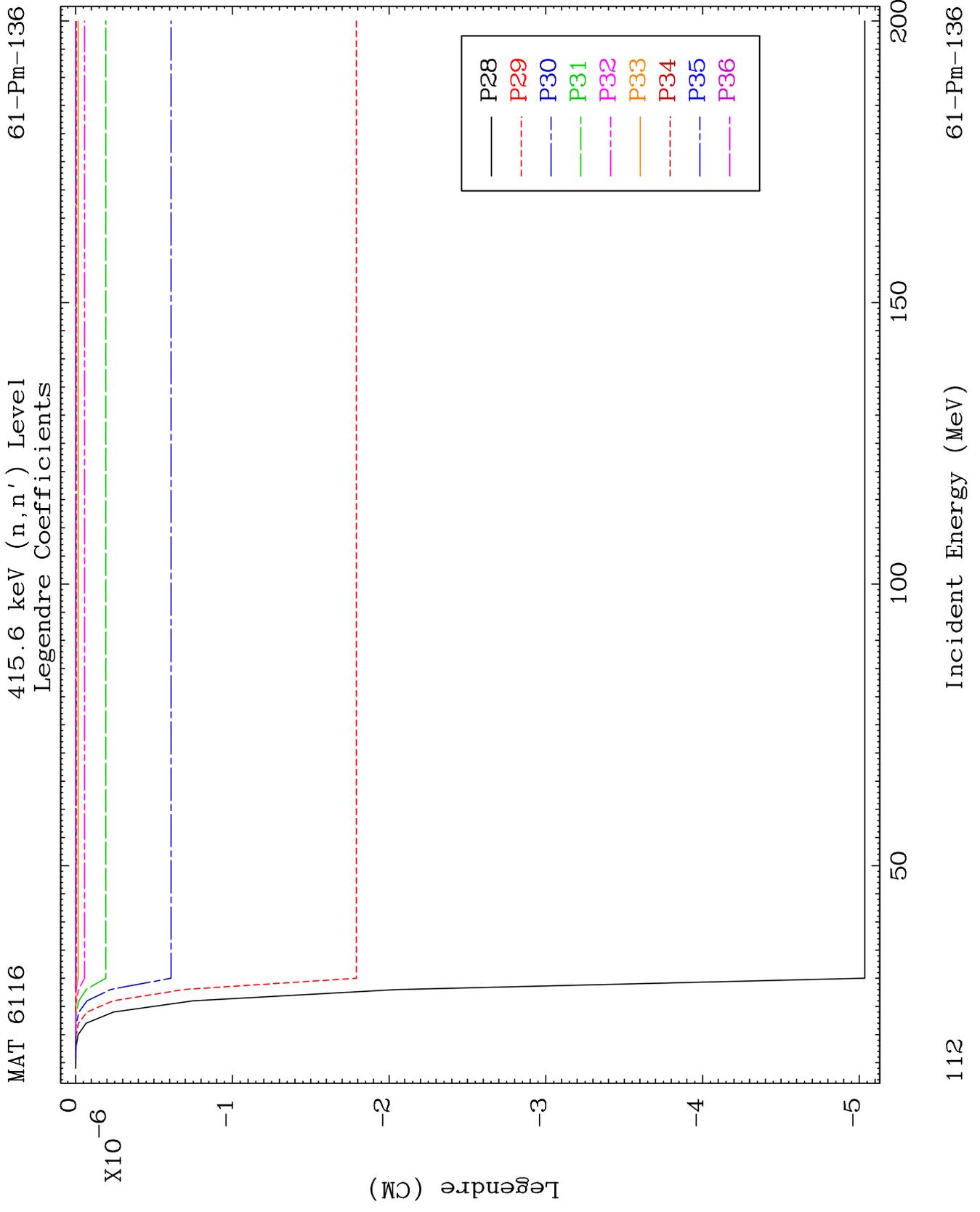








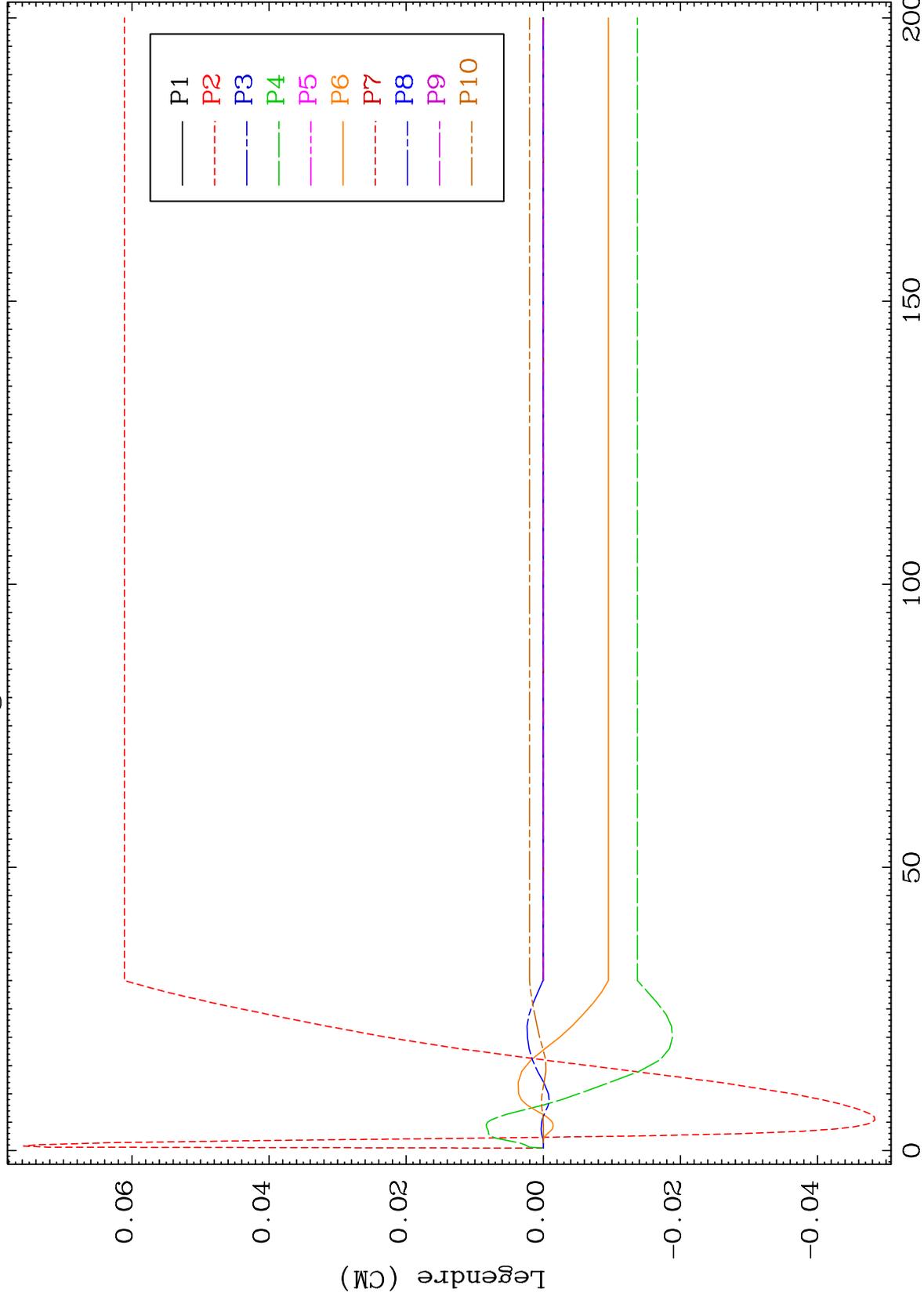




MAT 6116

423.6 keV (n,n') Level  
Legendre Coefficients

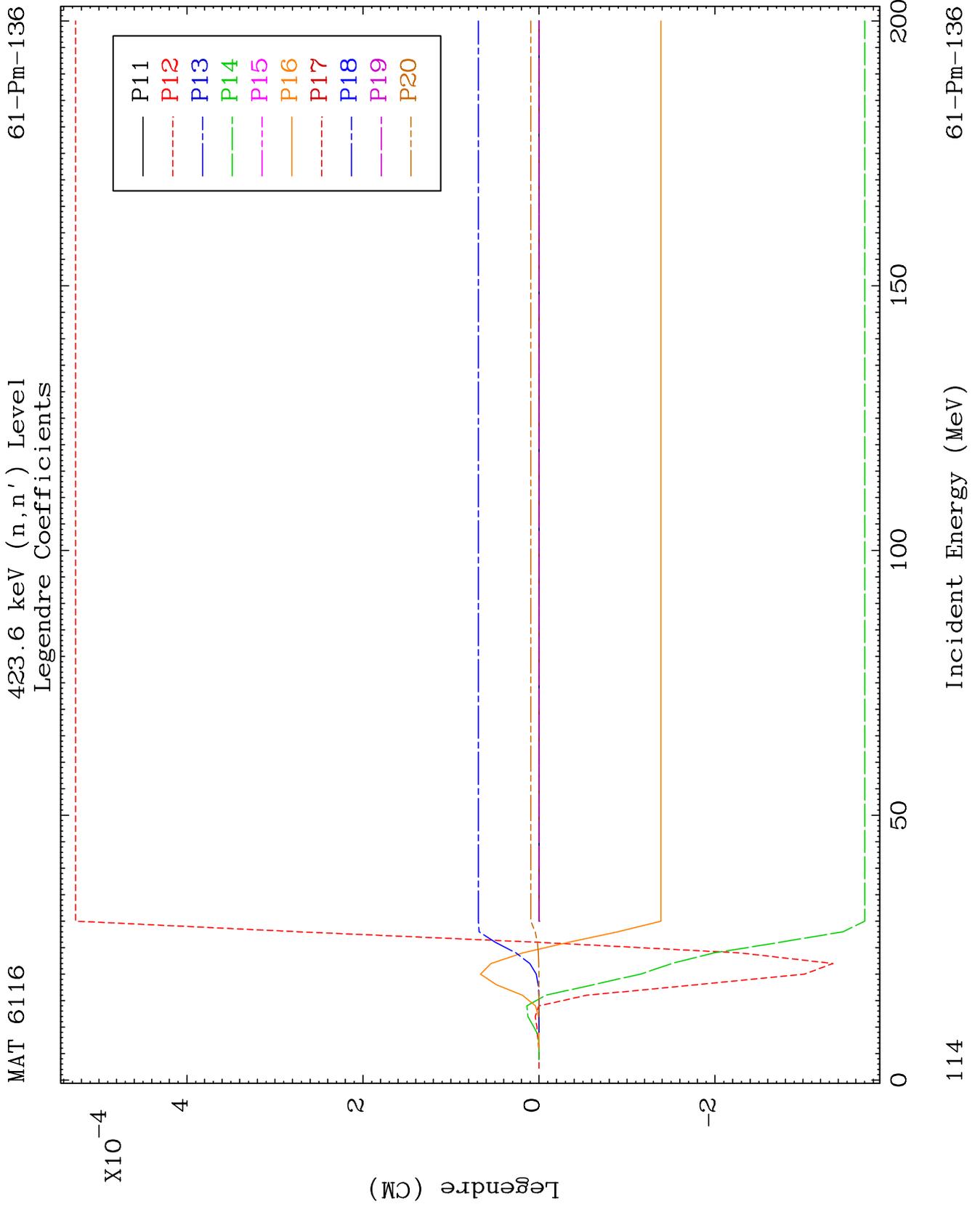
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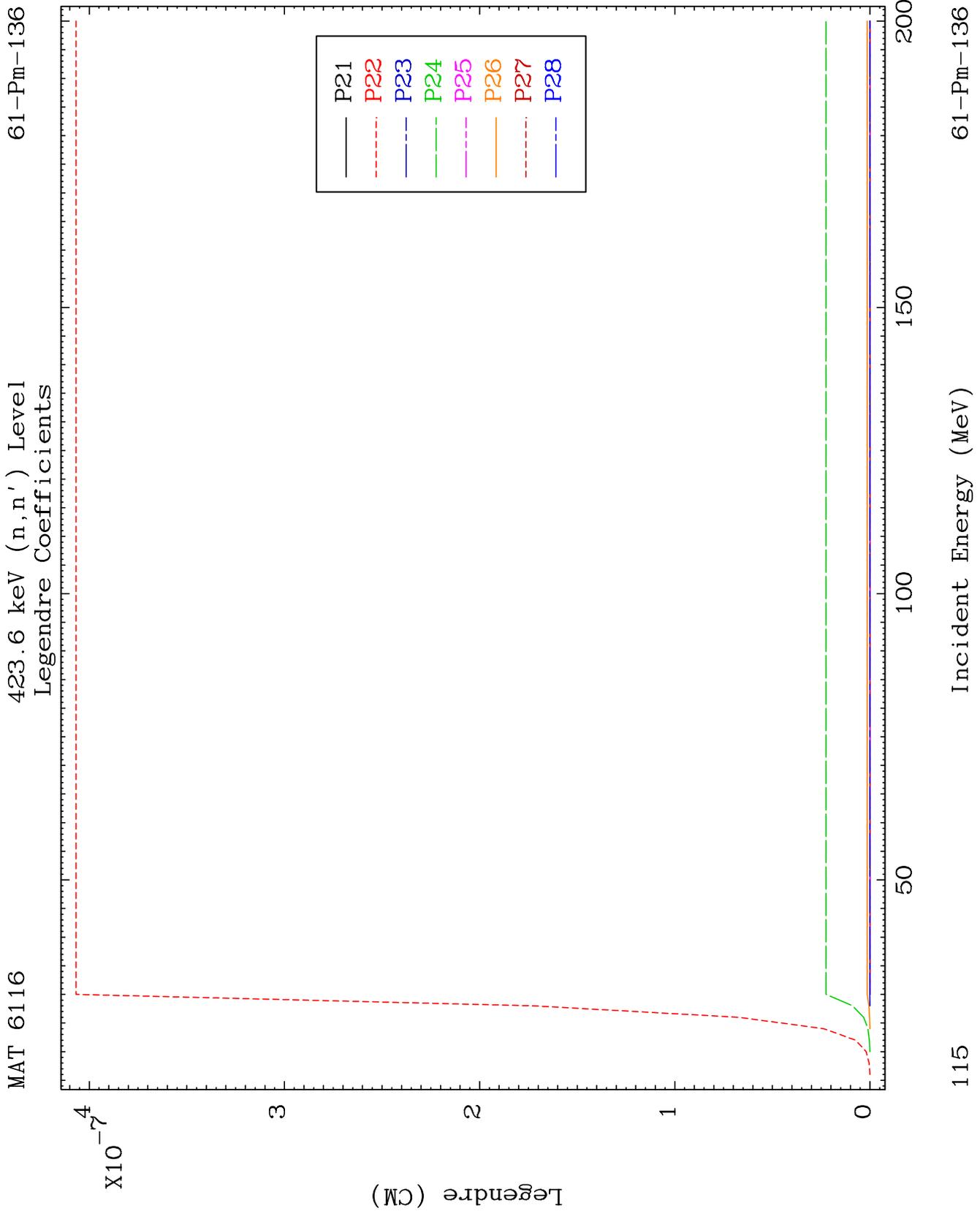


61-Pm-136

Incident Energy (MeV)

113



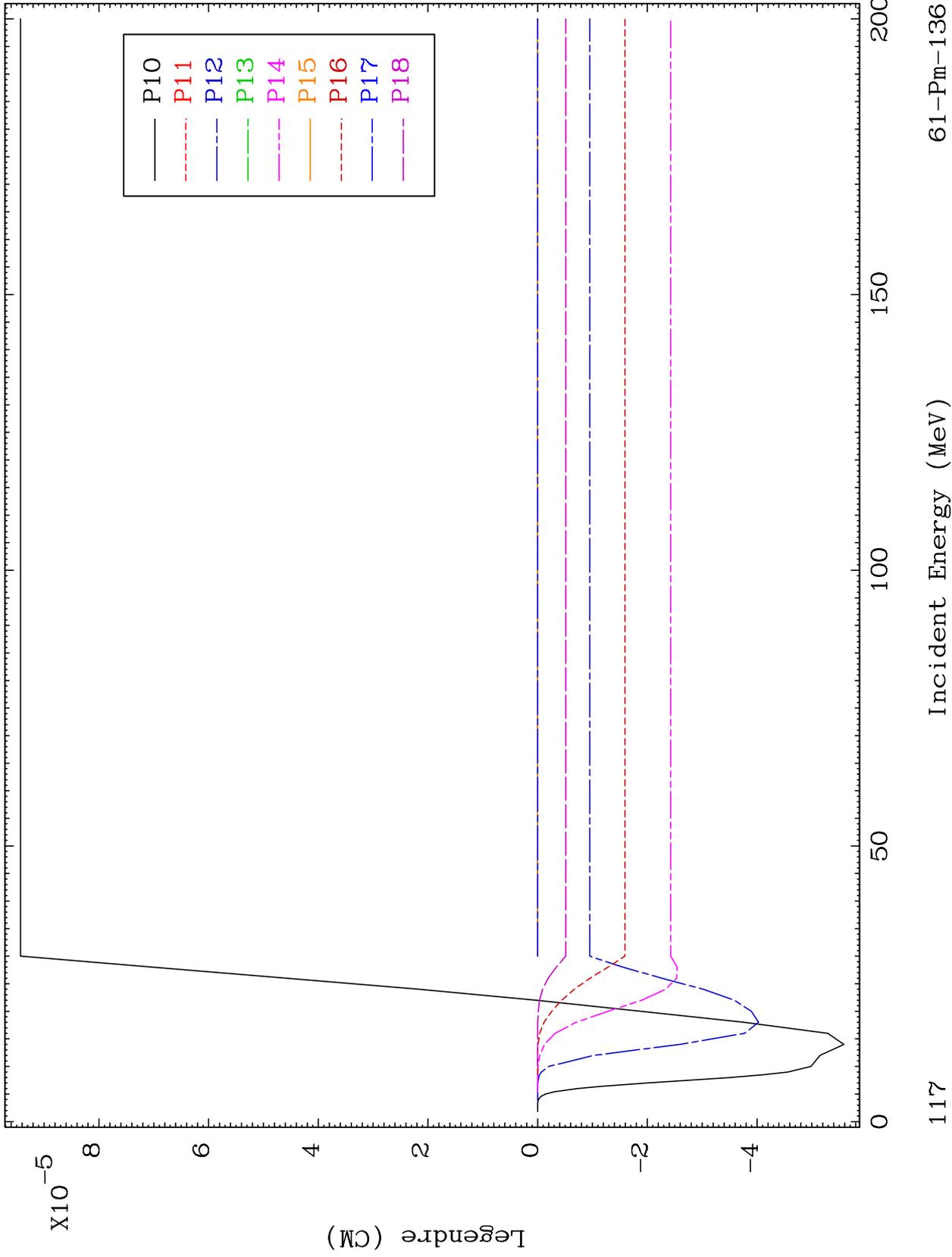




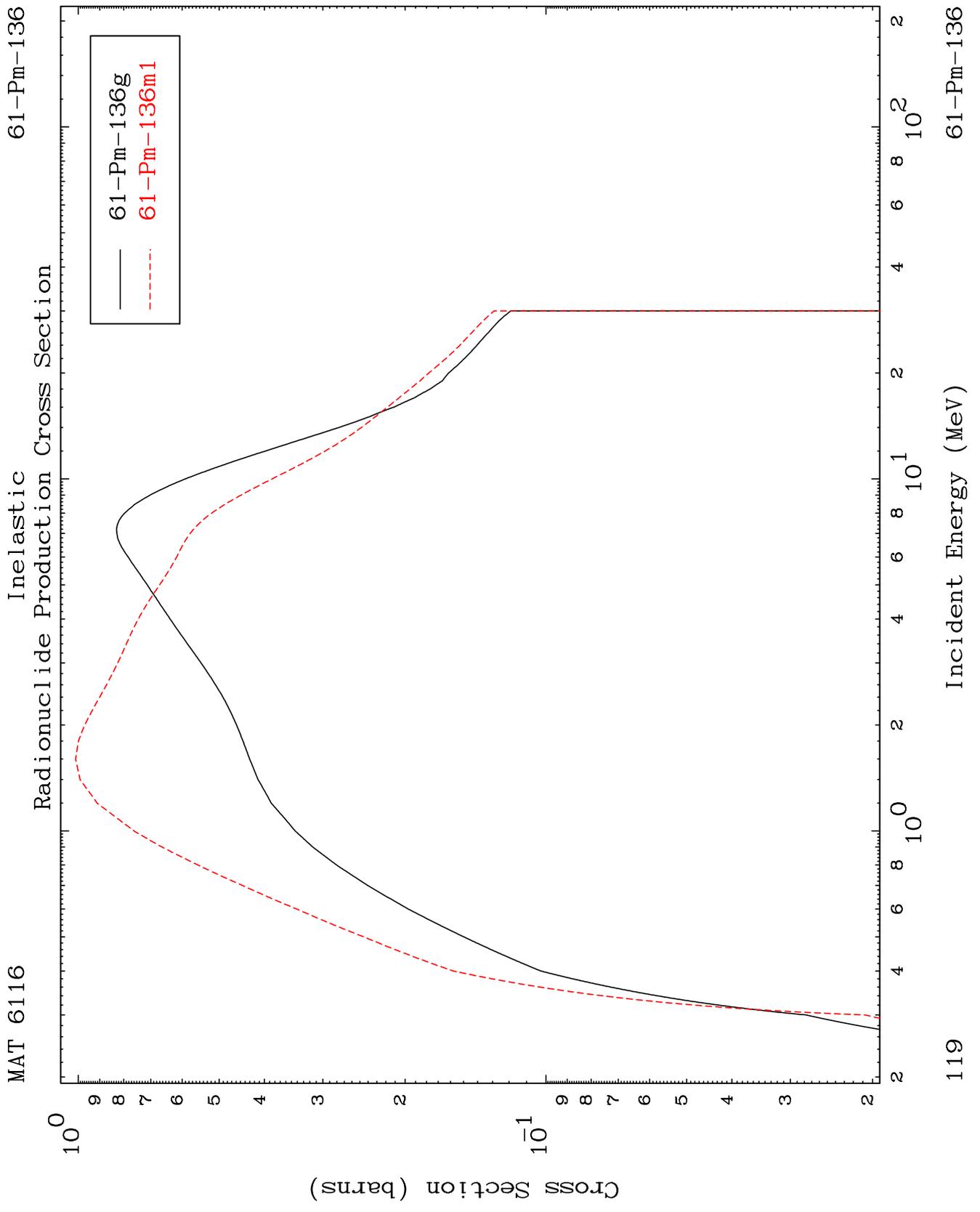
MAT 6116

428.8 keV (n,n') Level  
Legendre Coefficients

61-Pm-136





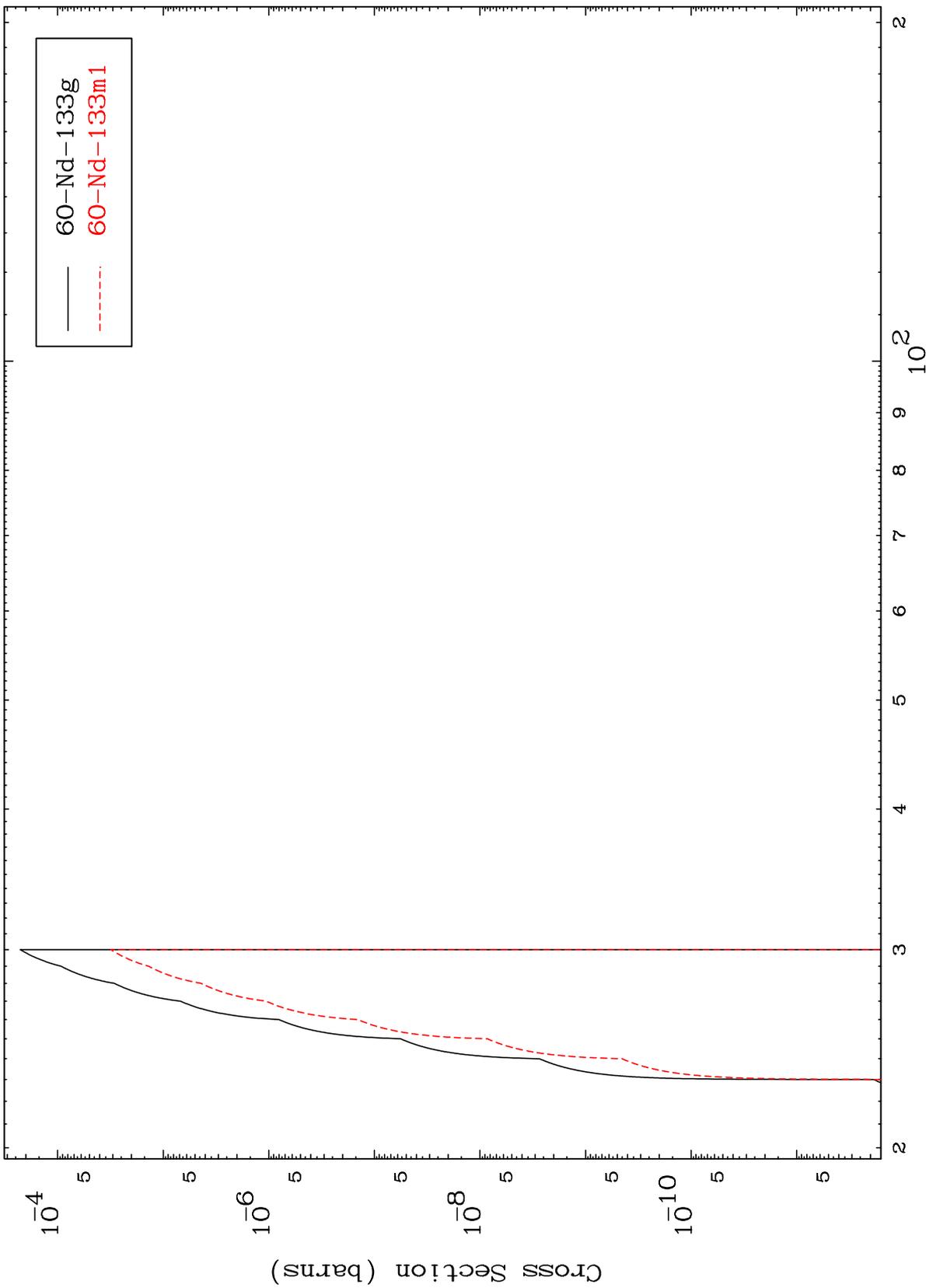


MAT 6116

(n,2n) d

61-Pm-136

Radionuclide Production Cross Section



120

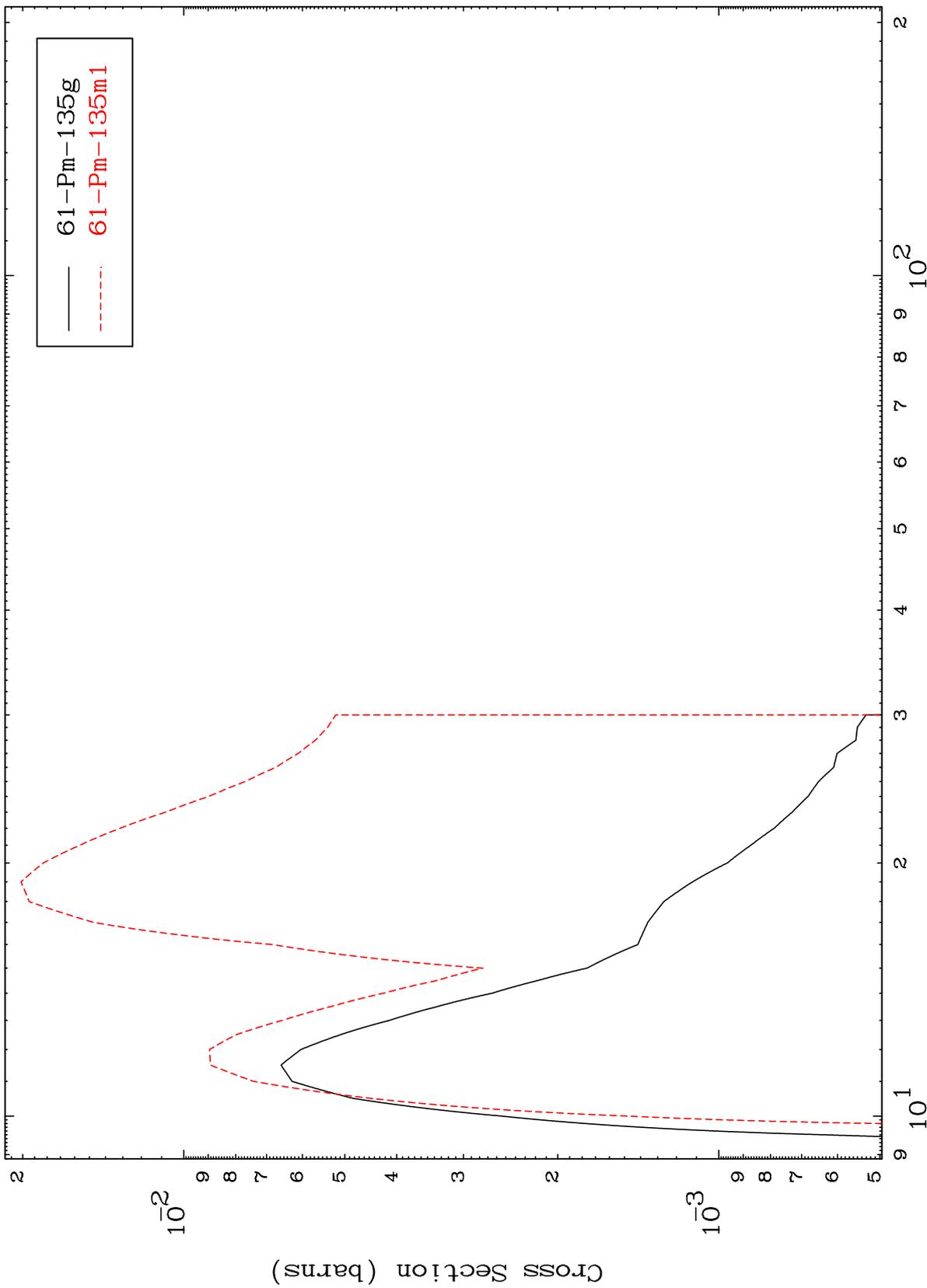
Incident Energy (MeV)

61-Pm-136

MAT 6116

61-Pm-136

(n,2n)  
Radionuclide Production Cross Section



61-Pm-136

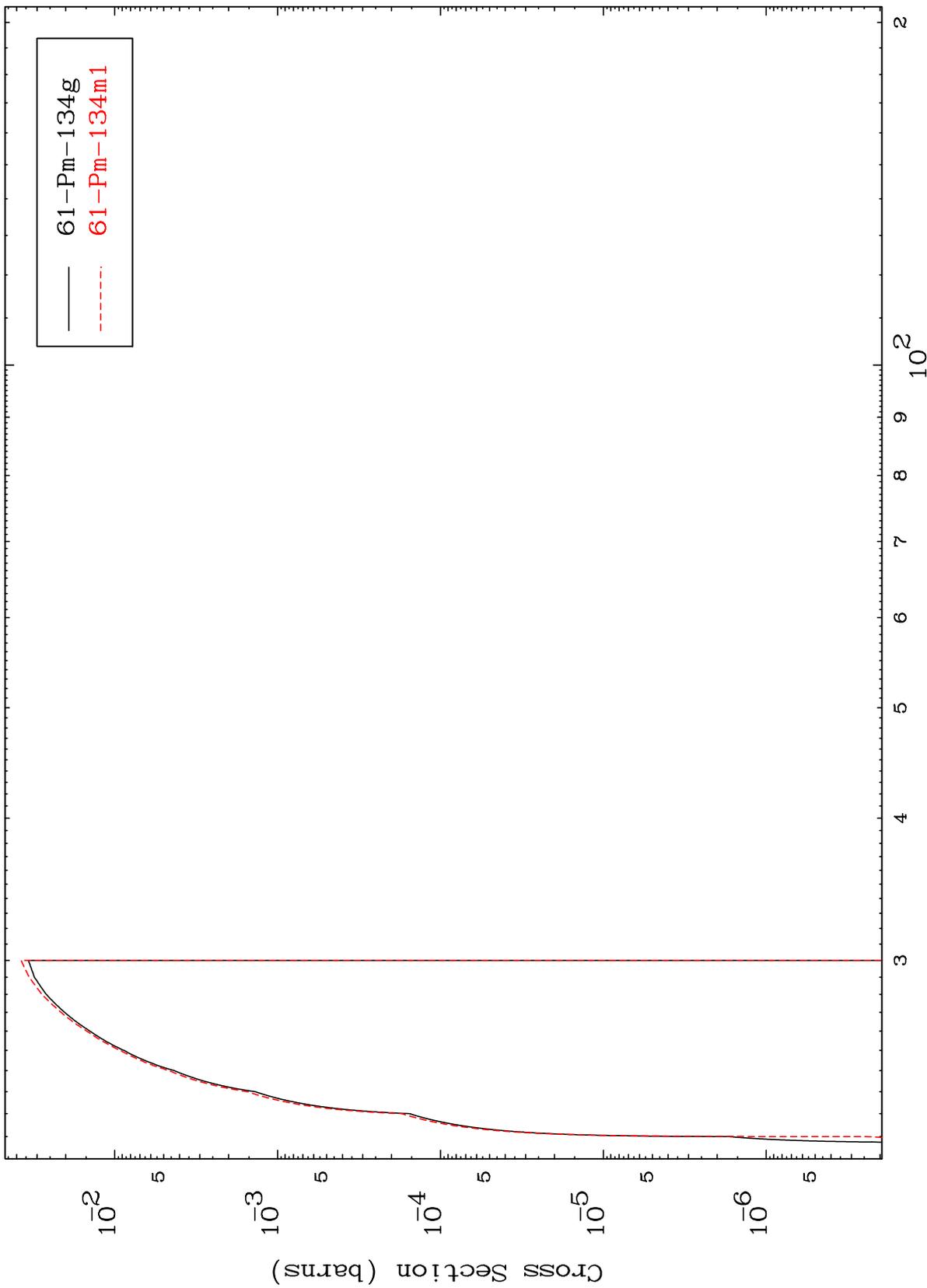
Incident Energy (MeV)

121

MAT 6116

61-Pm-136

(n,3n)  
Radionuclide Production Cross Section



61-Pm-134g  
61-Pm-134m1

61-Pm-136

Incident Energy (MeV)

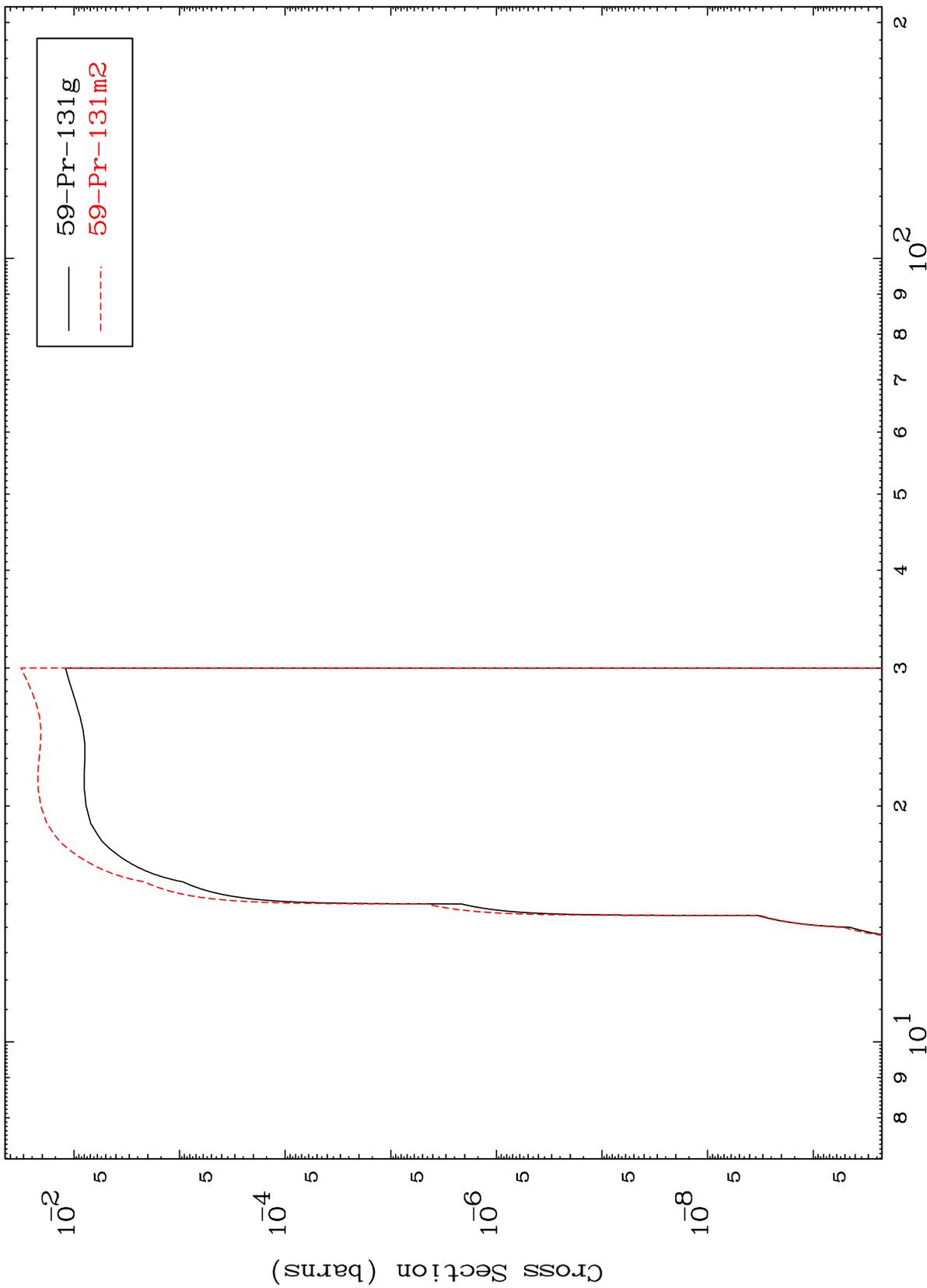
122

MAT 6116

61-Pm-136

(n,2n)  $\alpha$

Radionuclide Production Cross Section



123

Incident Energy (MeV)

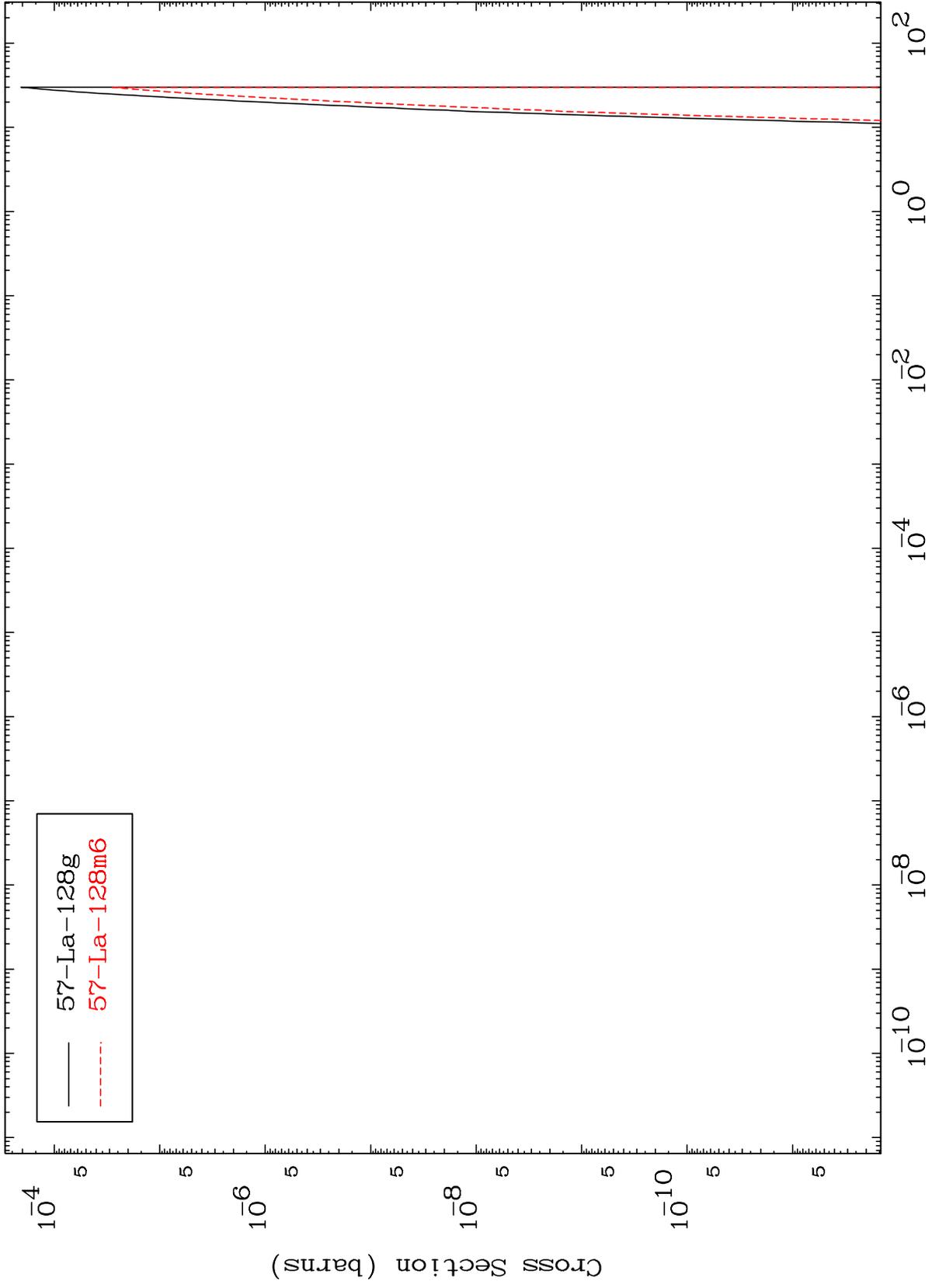
61-Pm-136

MAT 61116

(n,n') 2α

61-Pm-136

Radionuclide Production Cross Section



124

Incident Energy (MeV)

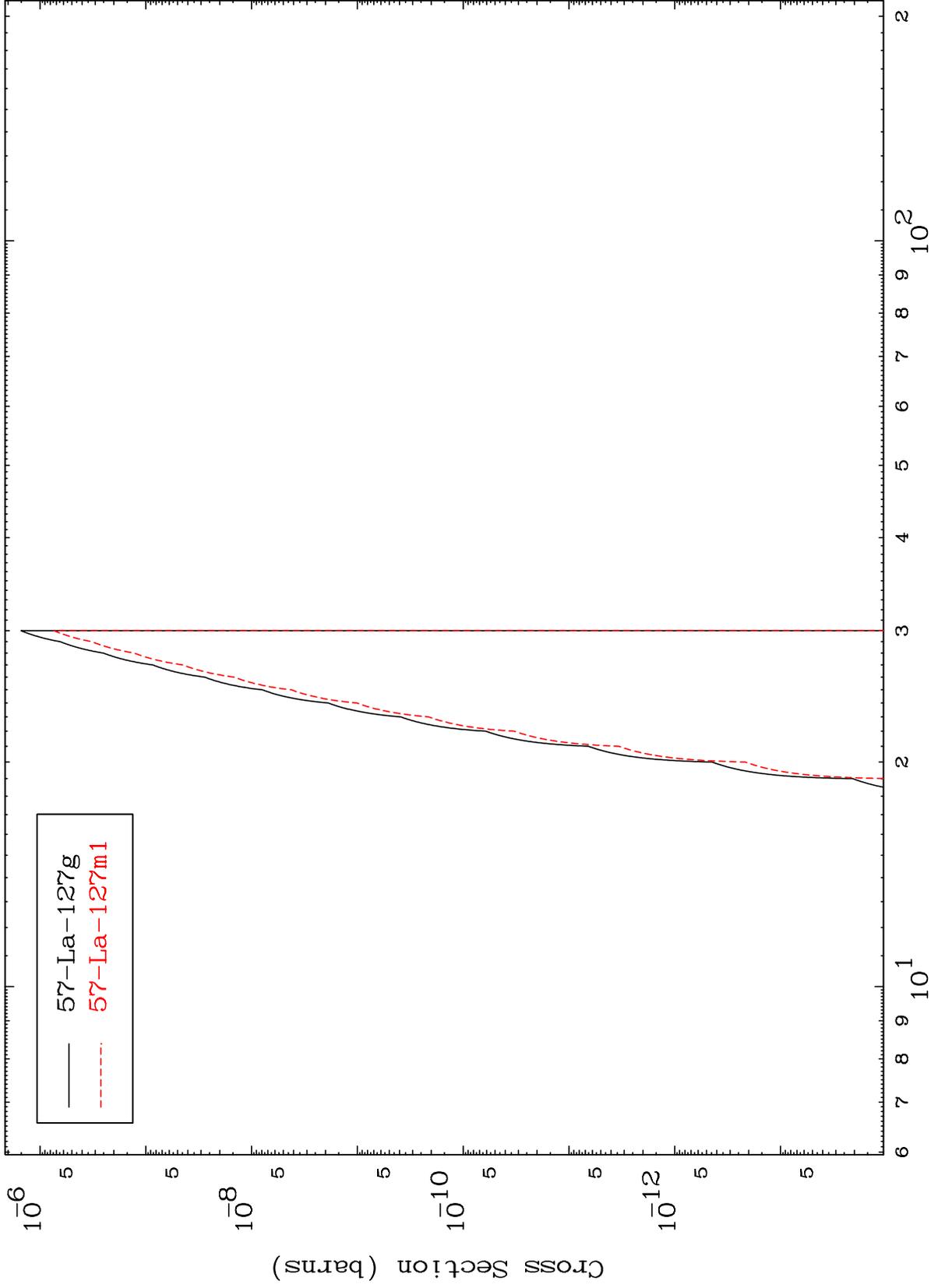
61-Pm-136

MAT 61116

(n,2n) 2α

61-Pm-136

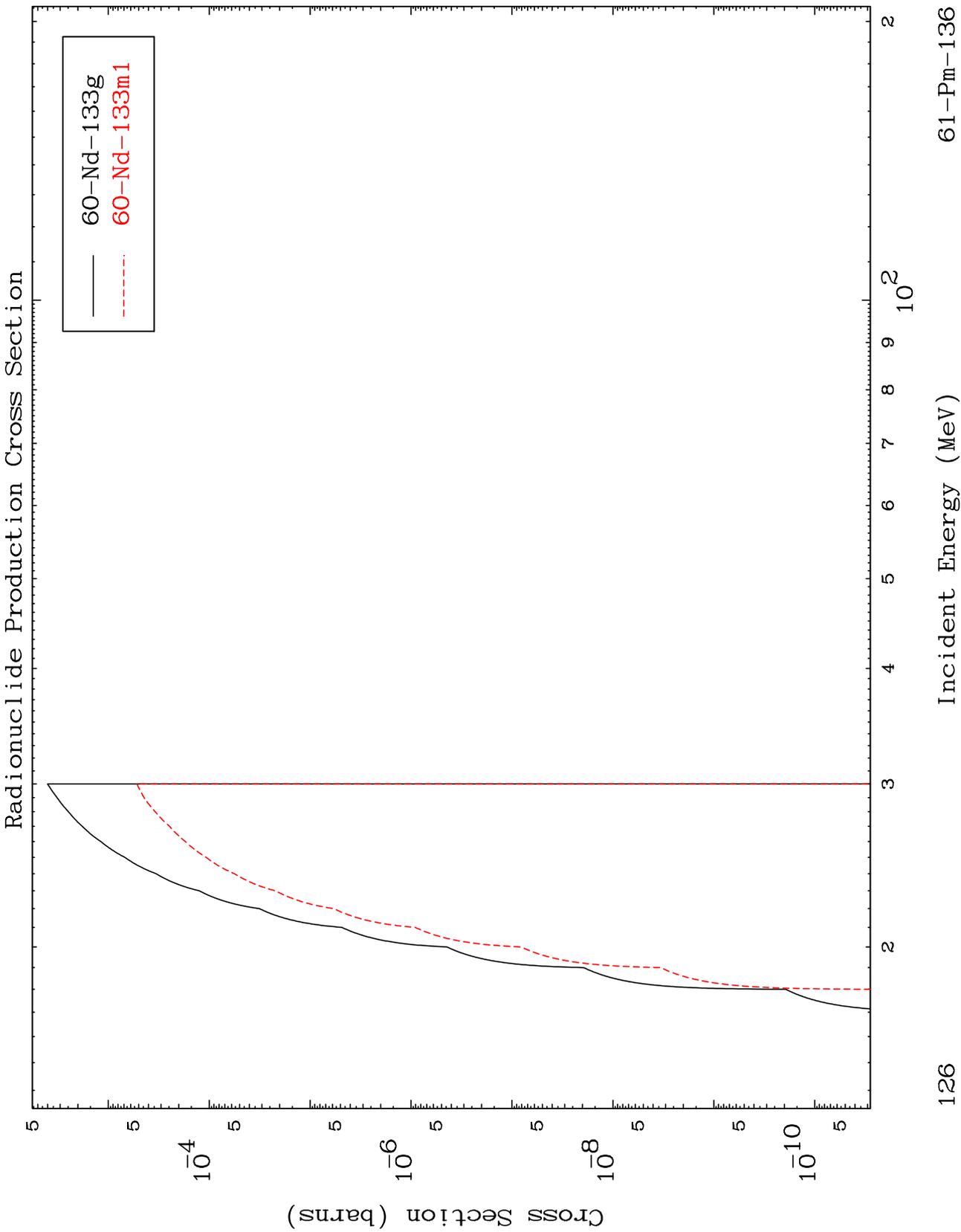
Radionuclide Production Cross Section



125

Incident Energy (MeV)

61-Pm-136

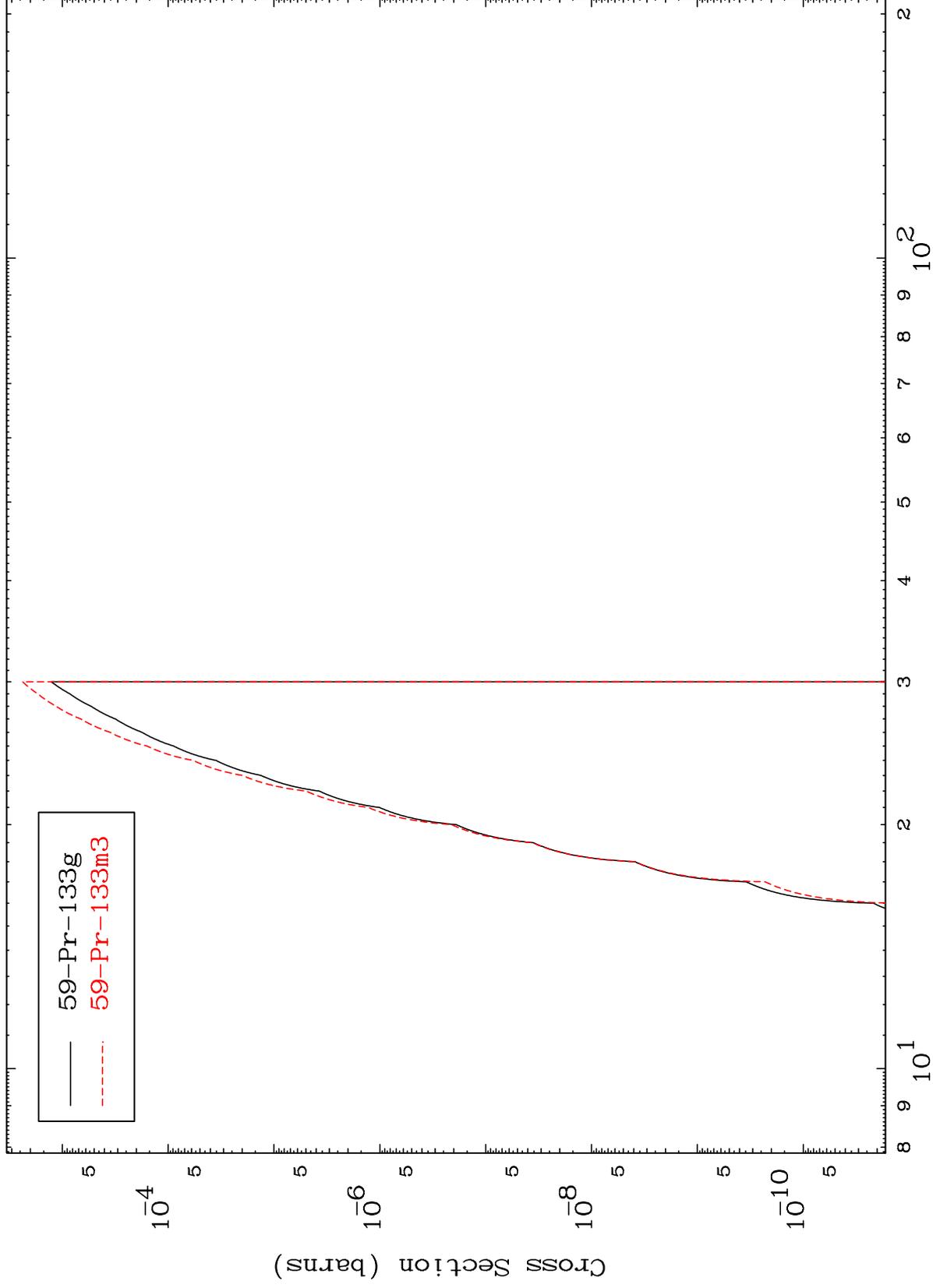


MAT 6116

(n,n') He-3

61-Pm-136

Radionuclide Production Cross Section



127

Incident Energy (MeV)

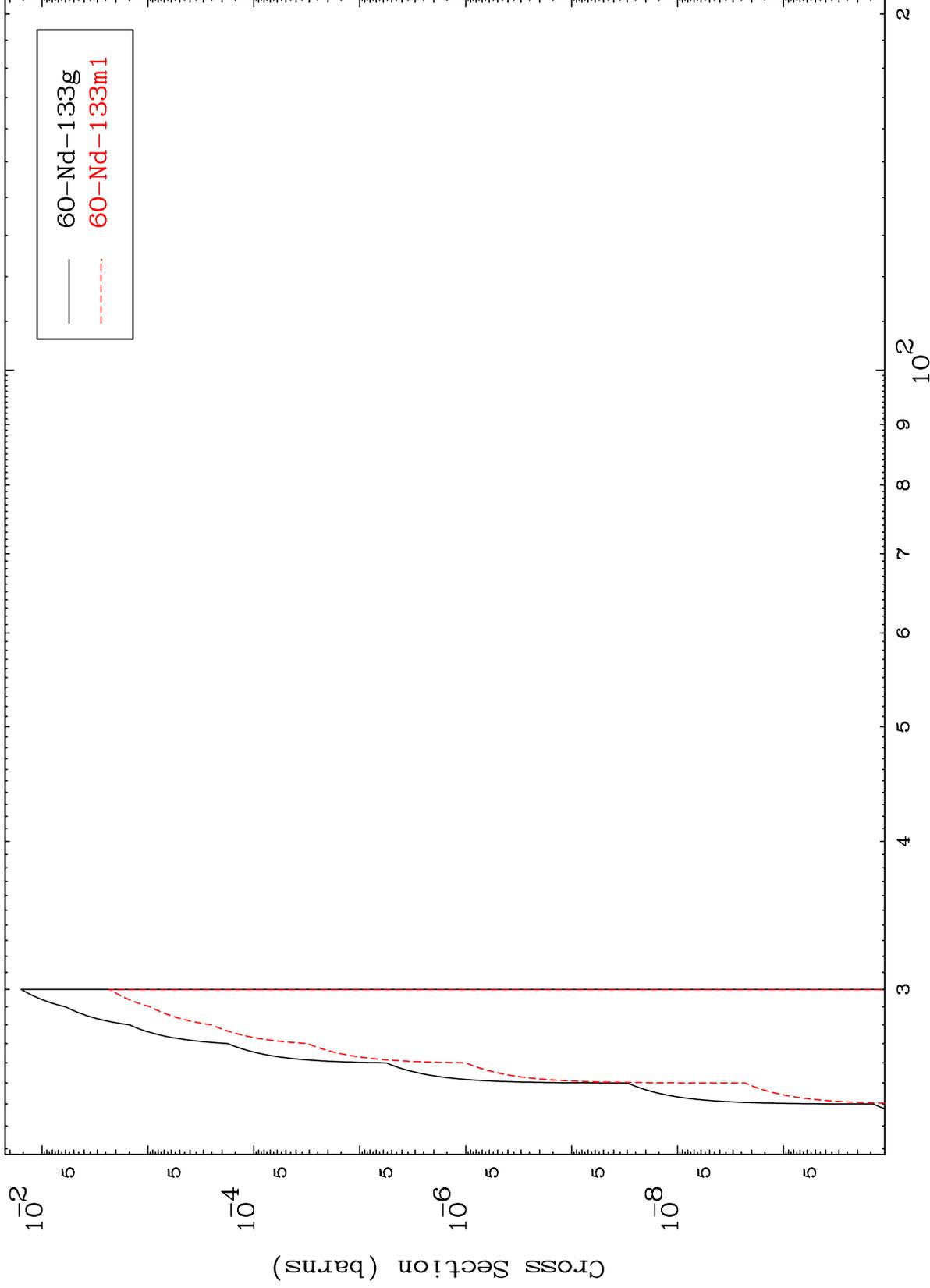
61-Pm-136

MAT 6116

(n,3n) p

61-Pm-136

Radionuclide Production Cross Section



128

Incident Energy (MeV)

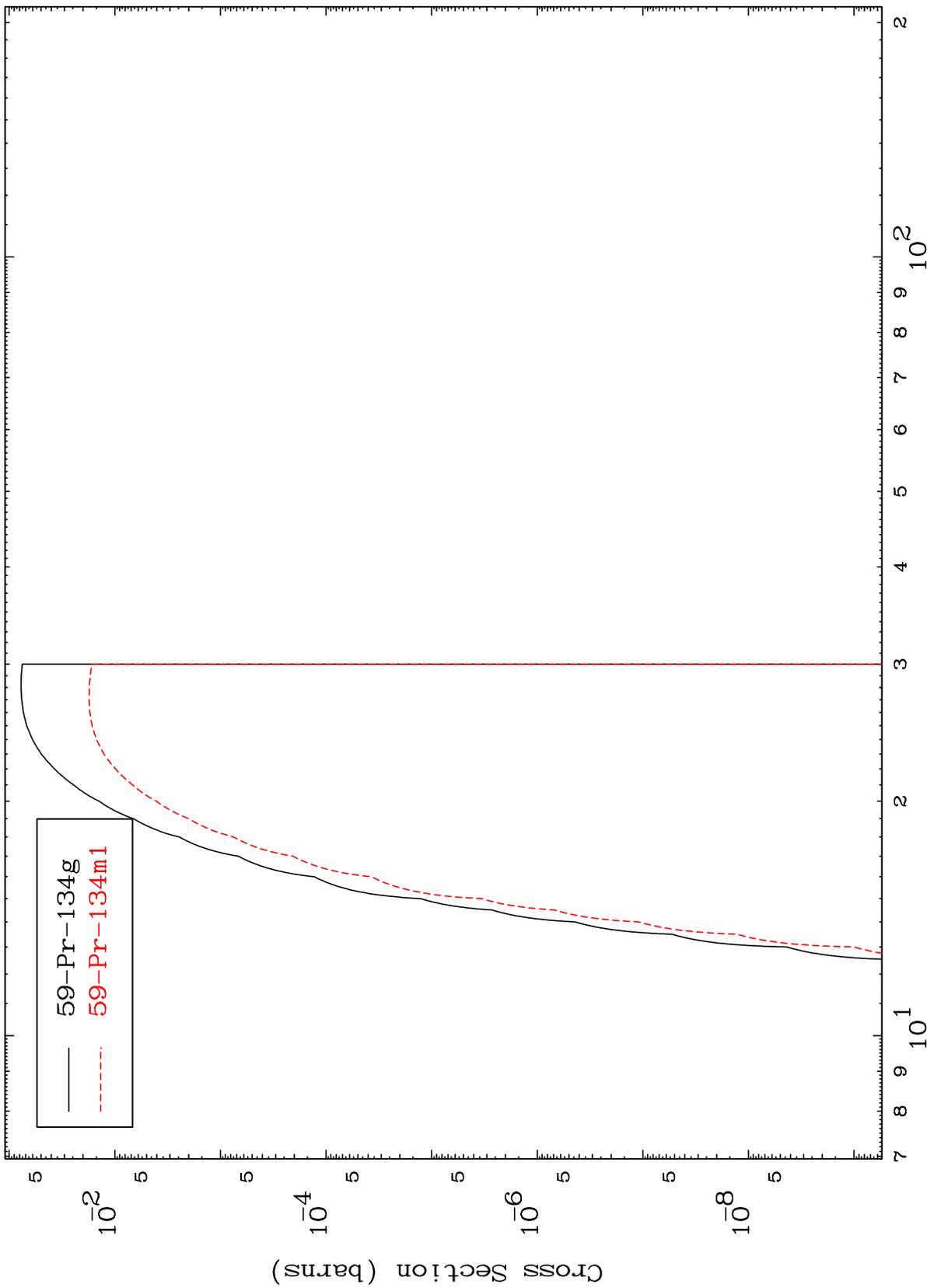
61-Pm-136

MAT 6116

(n,2n) p

61-Pm-136

Radionuclide Production Cross Section



129

Incident Energy (MeV)

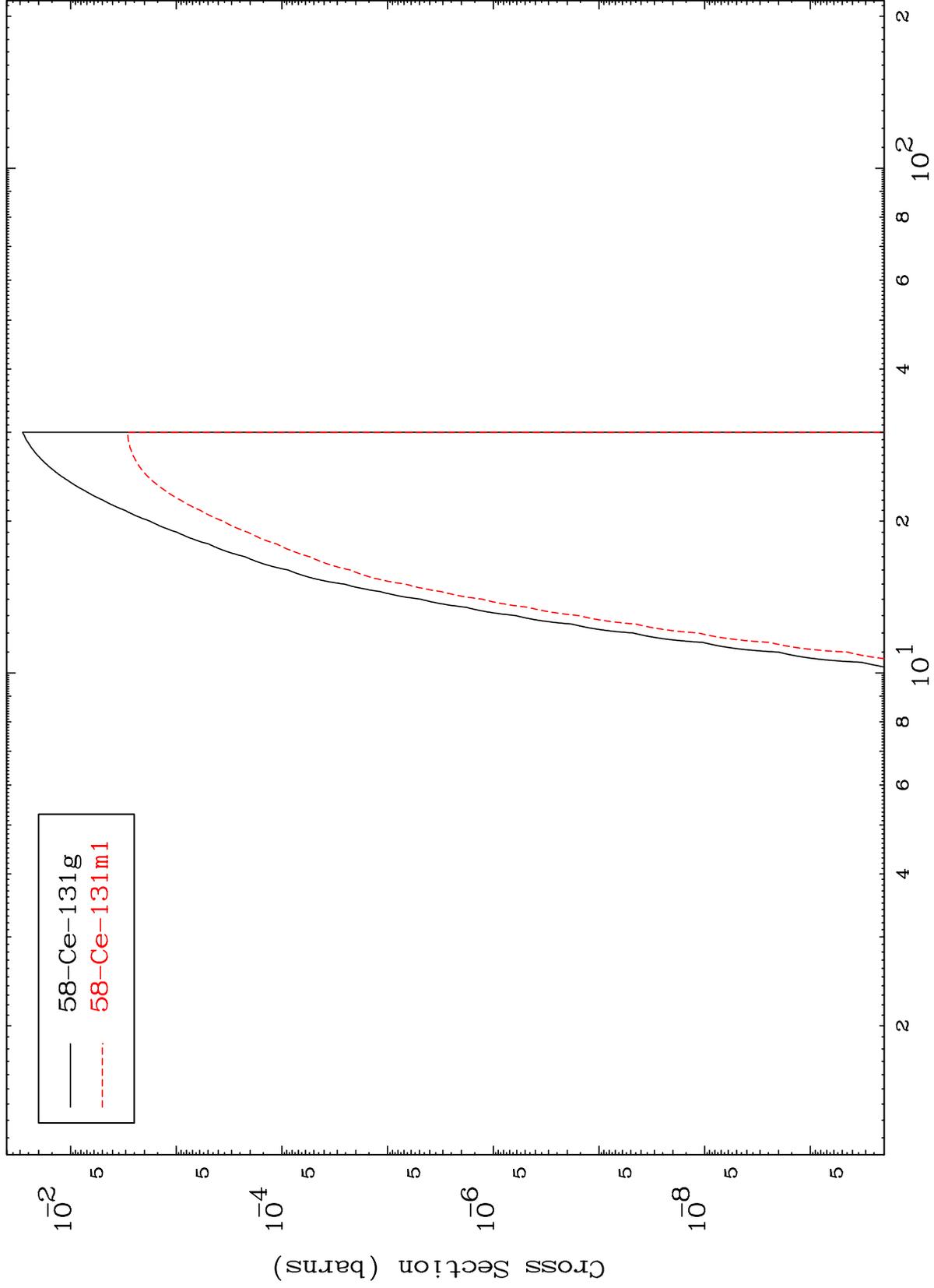
61-Pm-136

MAT 6116

(n,n') p  $\alpha$

61-Pm-136

Radionuclide Production Cross Section



— 58-Ce-131g  
- - - 58-Ce-131m1

130

Incident Energy (MeV)

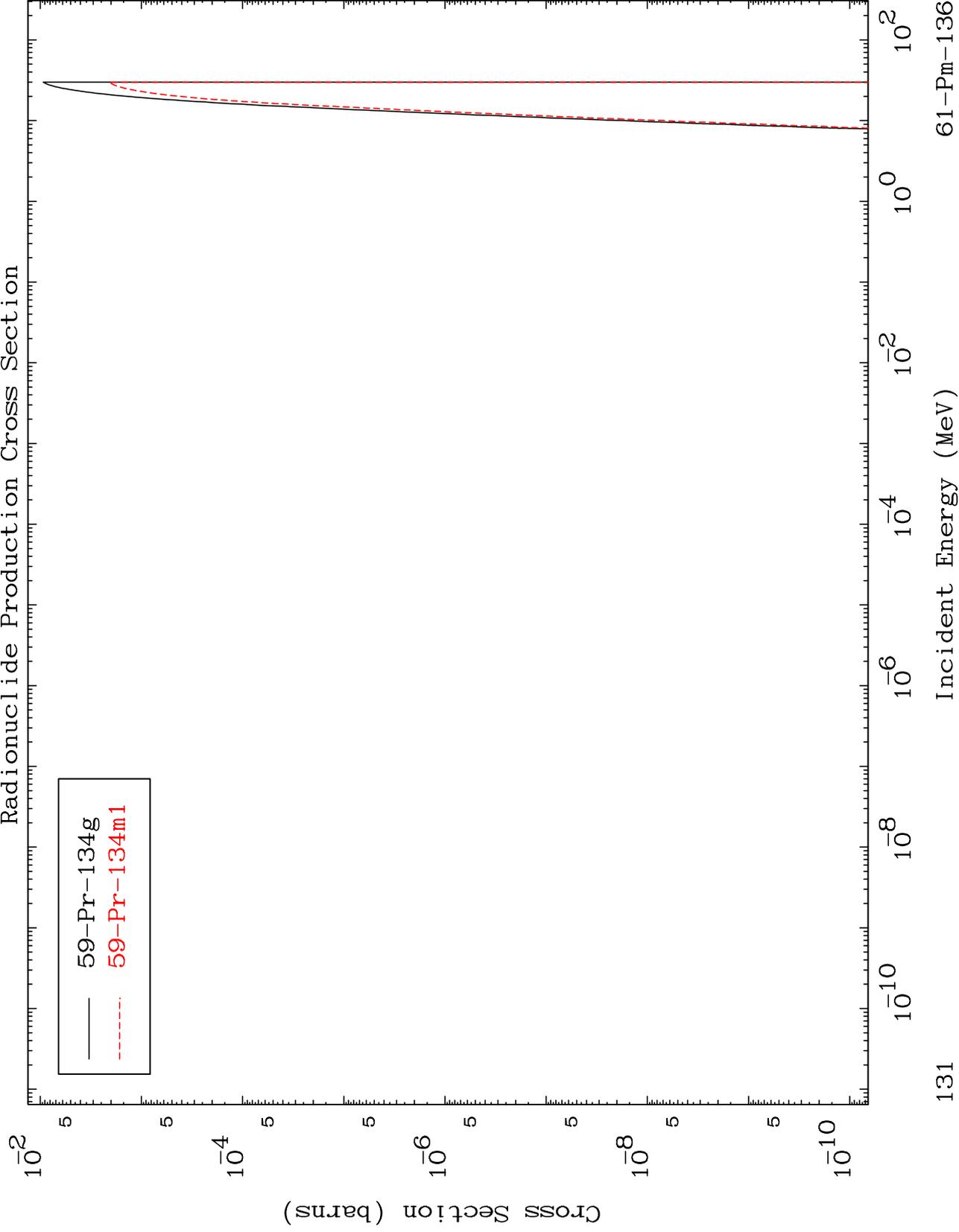
61-Pm-136

MAT 6116

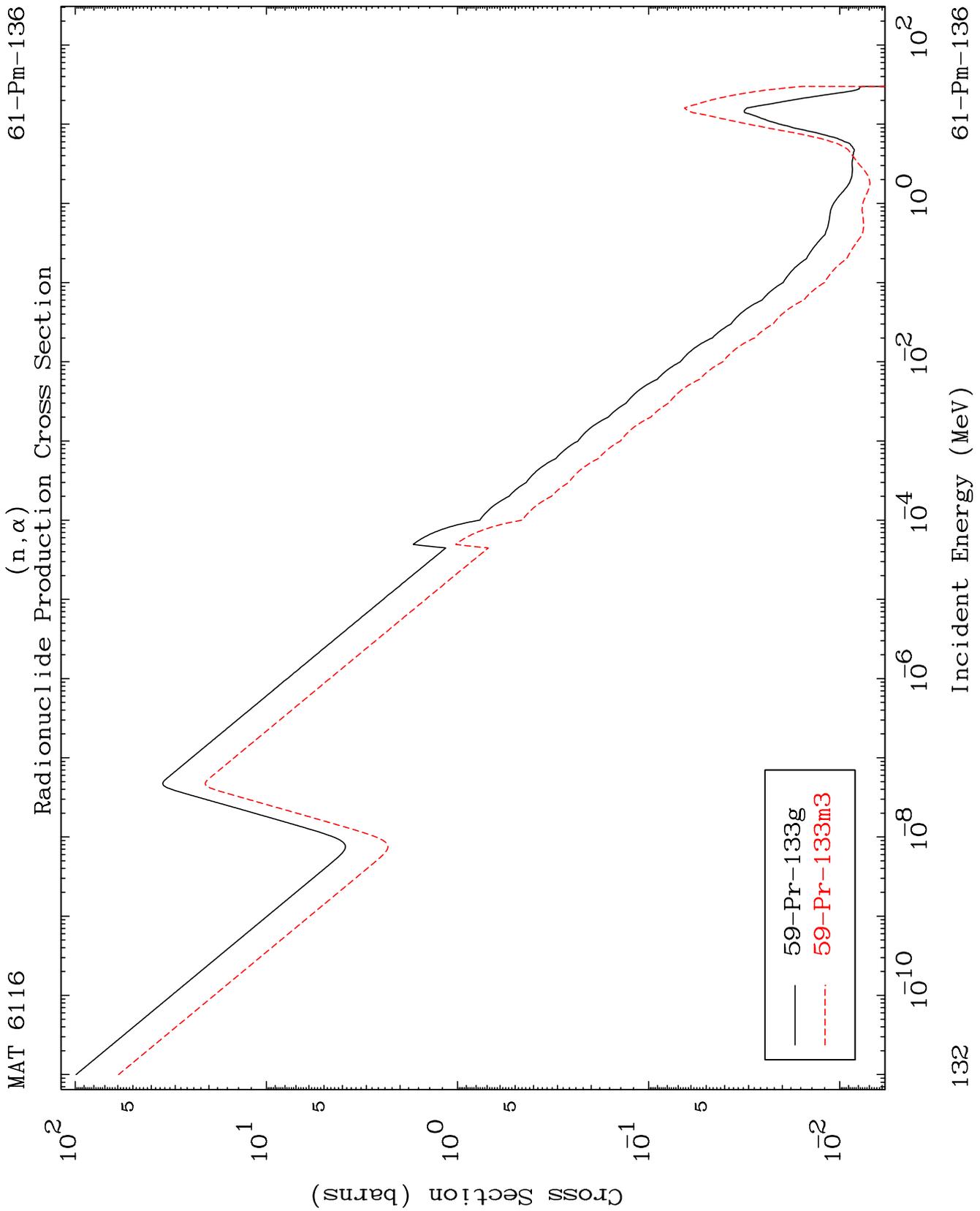
(n,He-3)

61-Pm-136

Radionuclide Production Cross Section



131

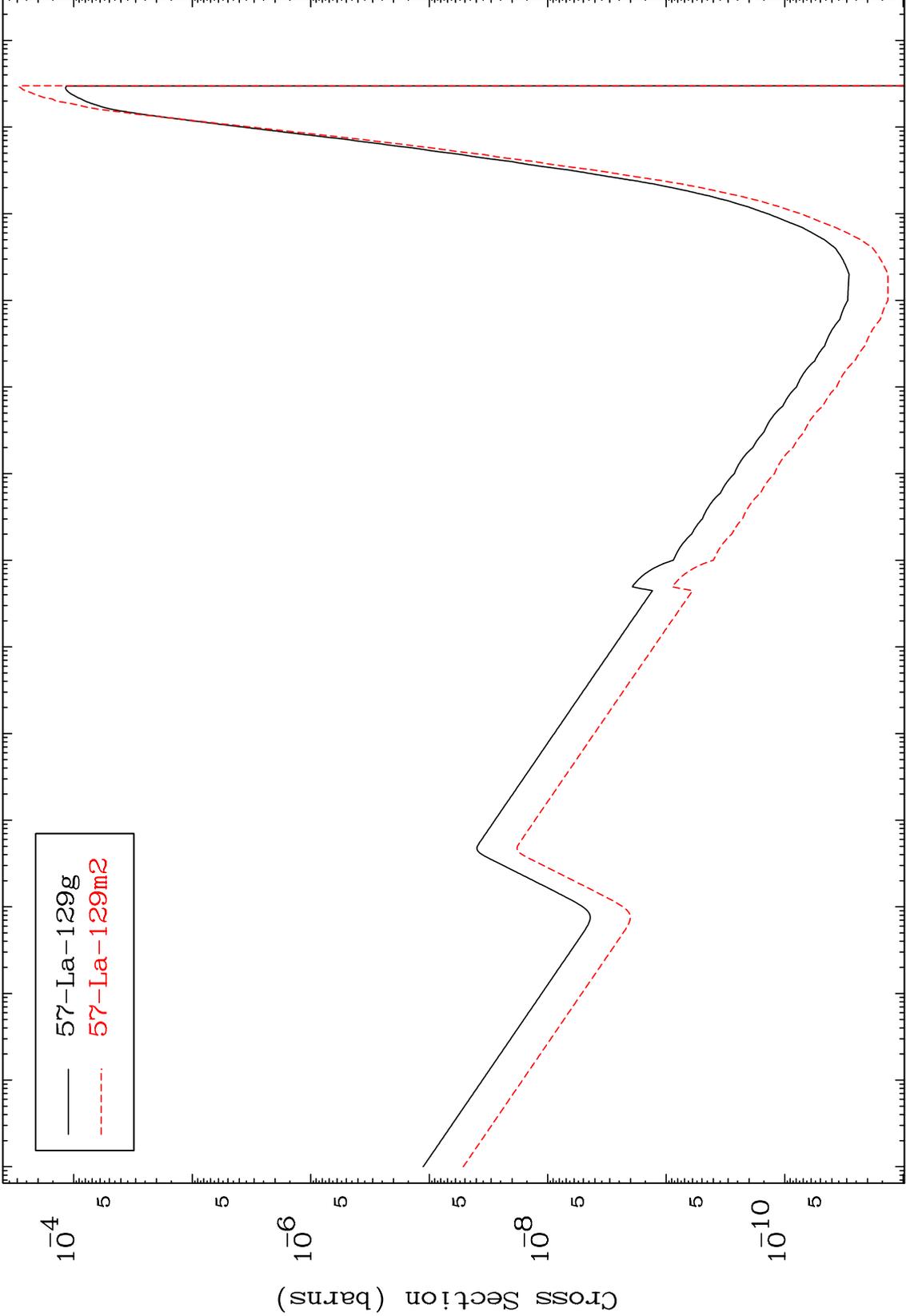
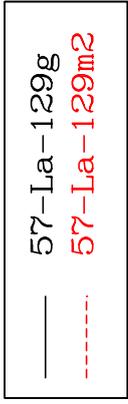


MAT 6116

(n,2α)

61-Pm-136

Radionuclide Production Cross Section



61-Pm-136

Incident Energy (MeV)

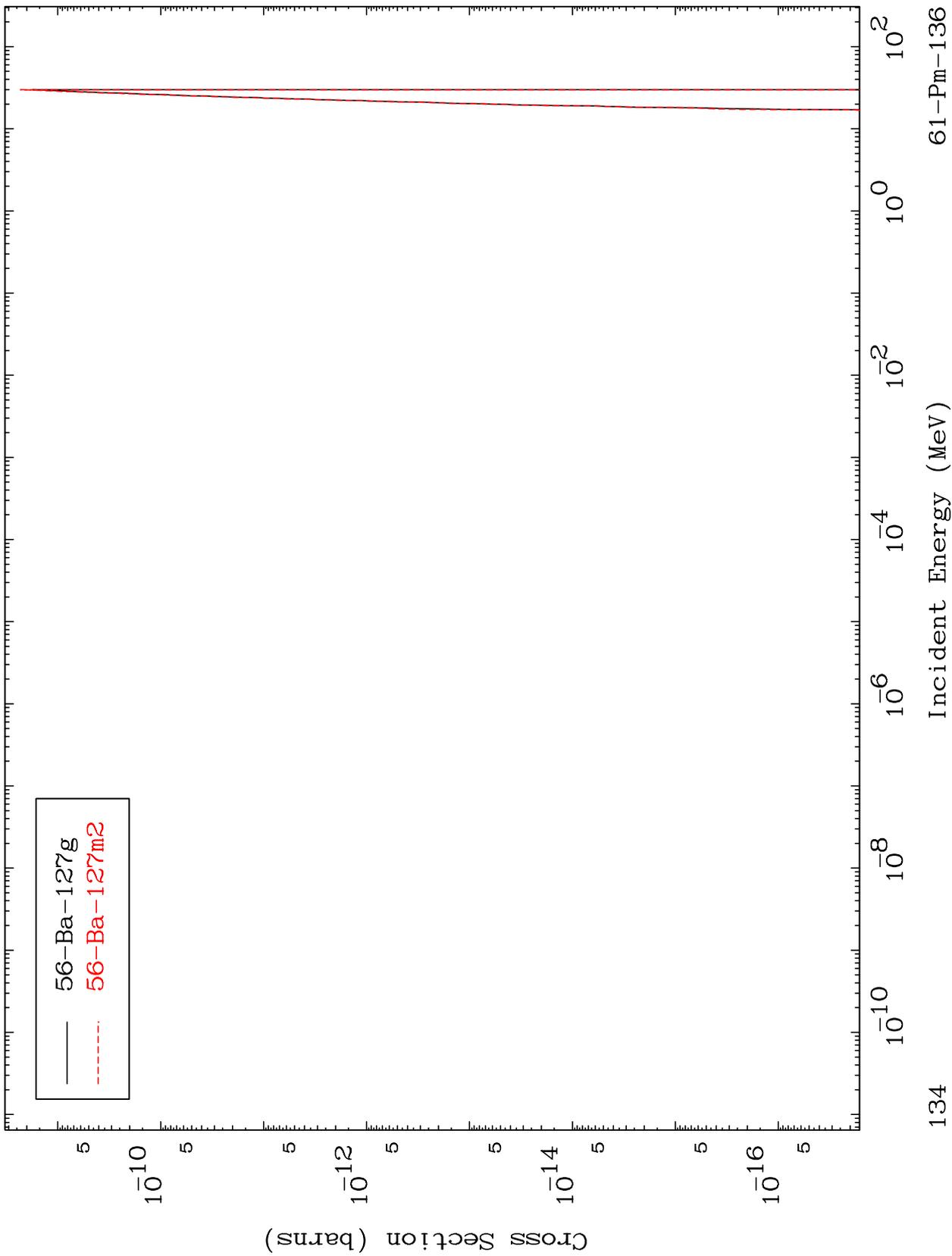
61-Pm-136

MAT 61116

(n,d) 2 $\alpha$

61-Pm-136

Radionuclide Production Cross Section



134

Incident Energy (MeV)

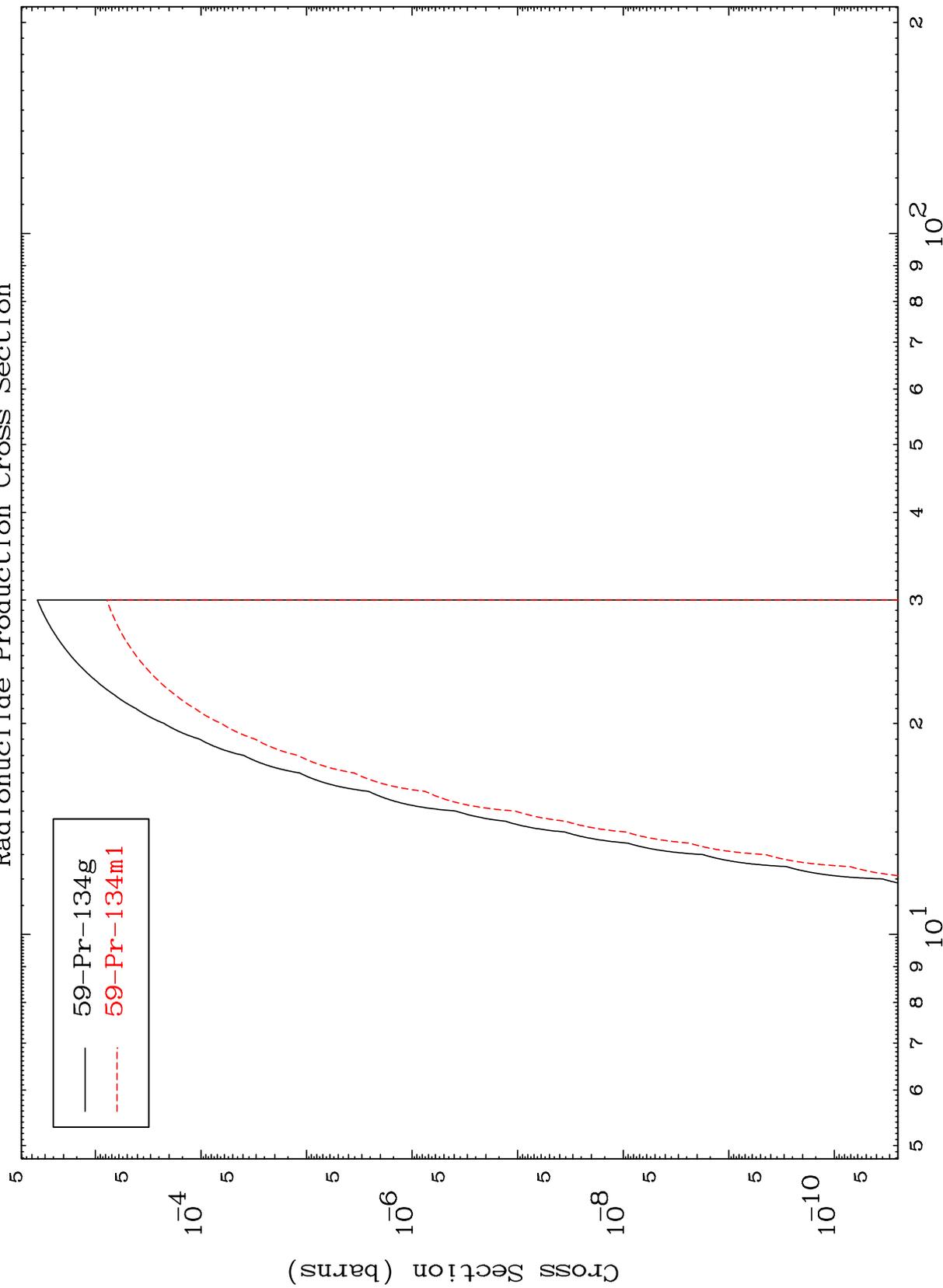
61-Pm-136

MAT 6116

(n,p) d

61-Pm-136

Radionuclide Production Cross Section



59-Pr-134g  
59-Pr-134m1

135

Incident Energy (MeV)

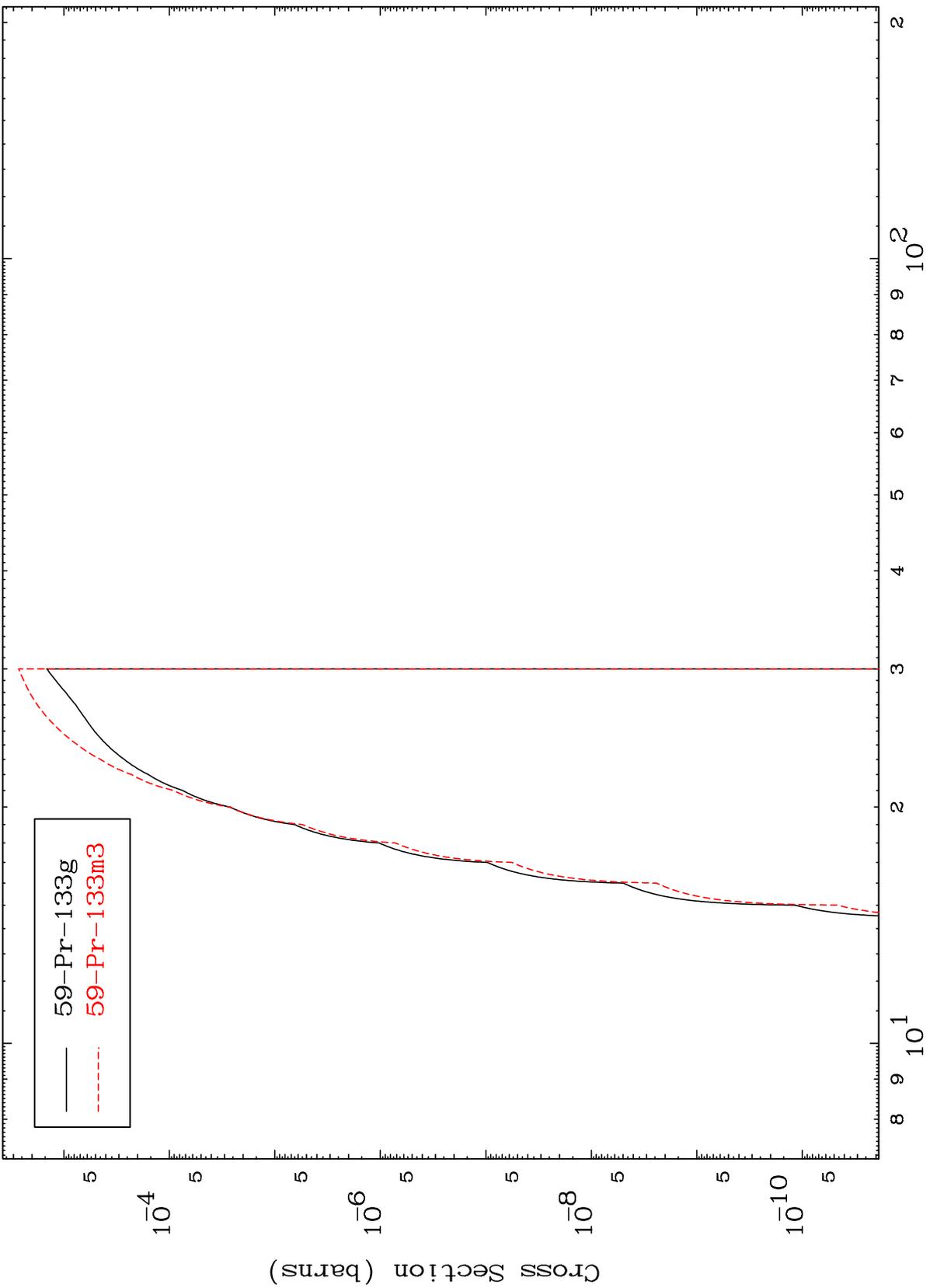
61-Pm-136

MAT 6116

(n,p) t

61-Pm-136

Radionuclide Production Cross Section



59-Pr-133g  
59-Pr-133m3

136

Incident Energy (MeV)

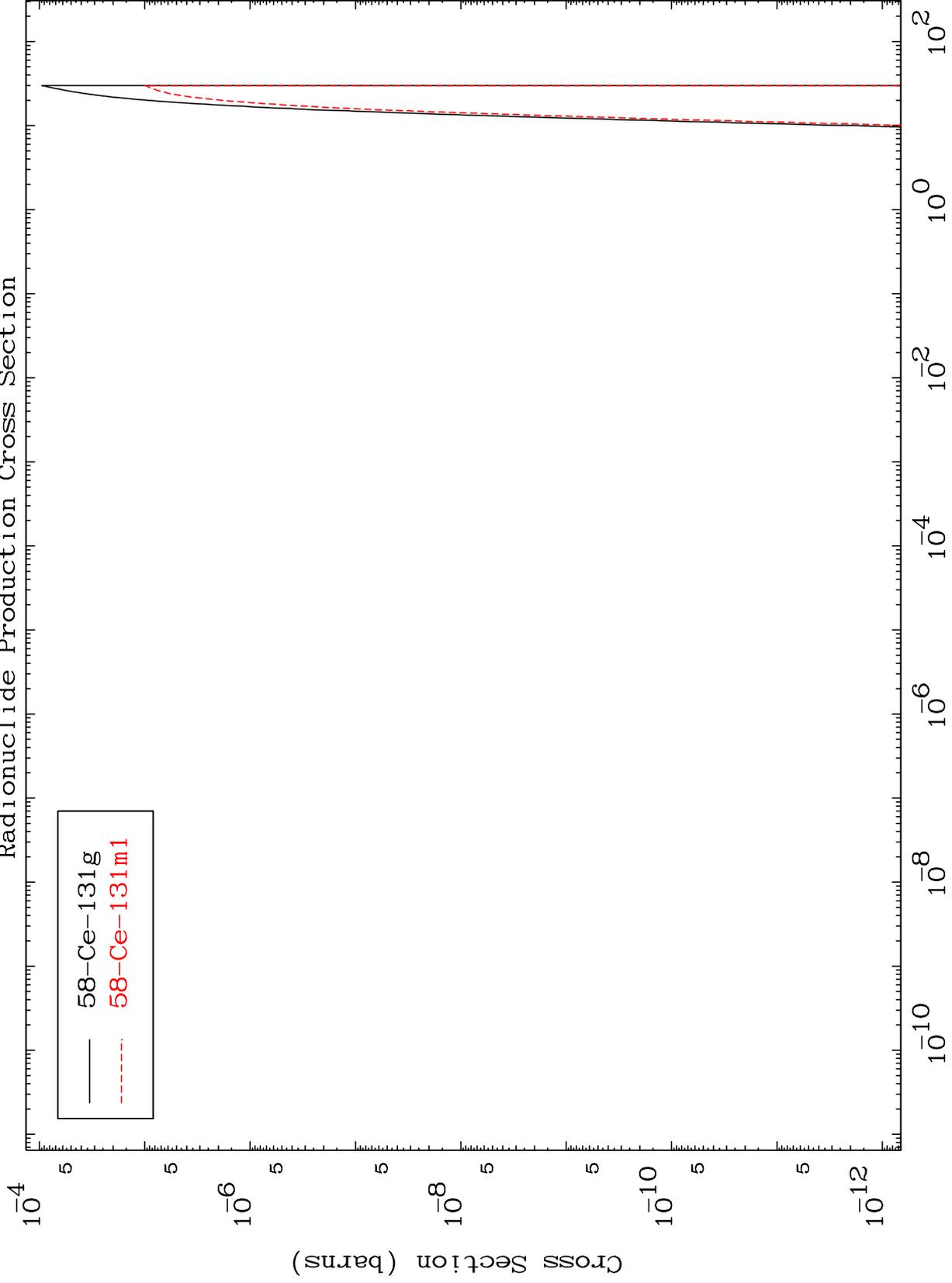
61-Pm-136

MAT 6116

(n,d)  $\alpha$

61-Pm-136

Radionuclide Production Cross Section



137

Incident Energy (MeV)

61-Pm-136