

Program EVALPLOT  
(Version 2015-2)

by

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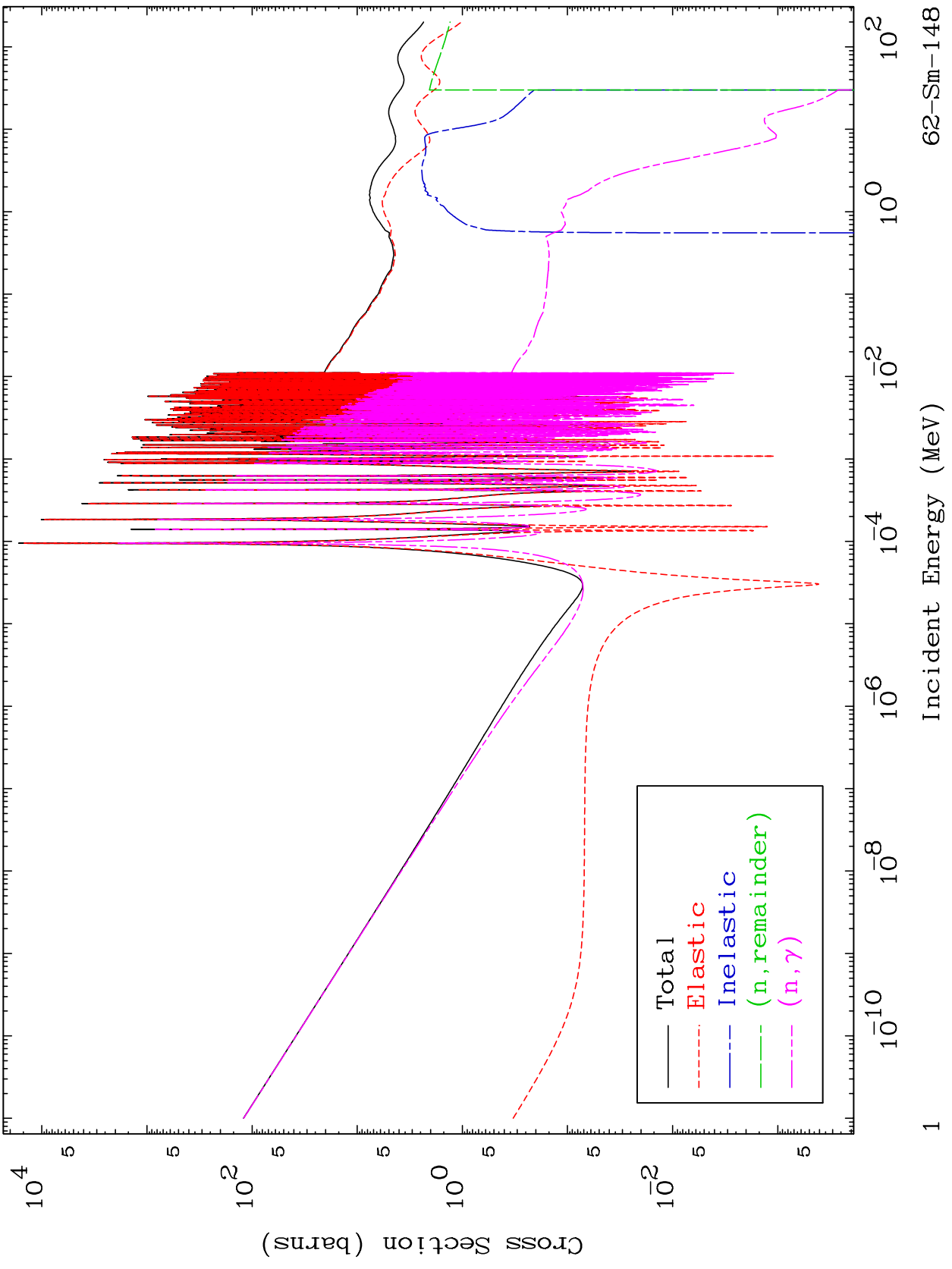
Press Mouse Button to Start

MAT 6237

Major

293 Kelvin Cross Sections

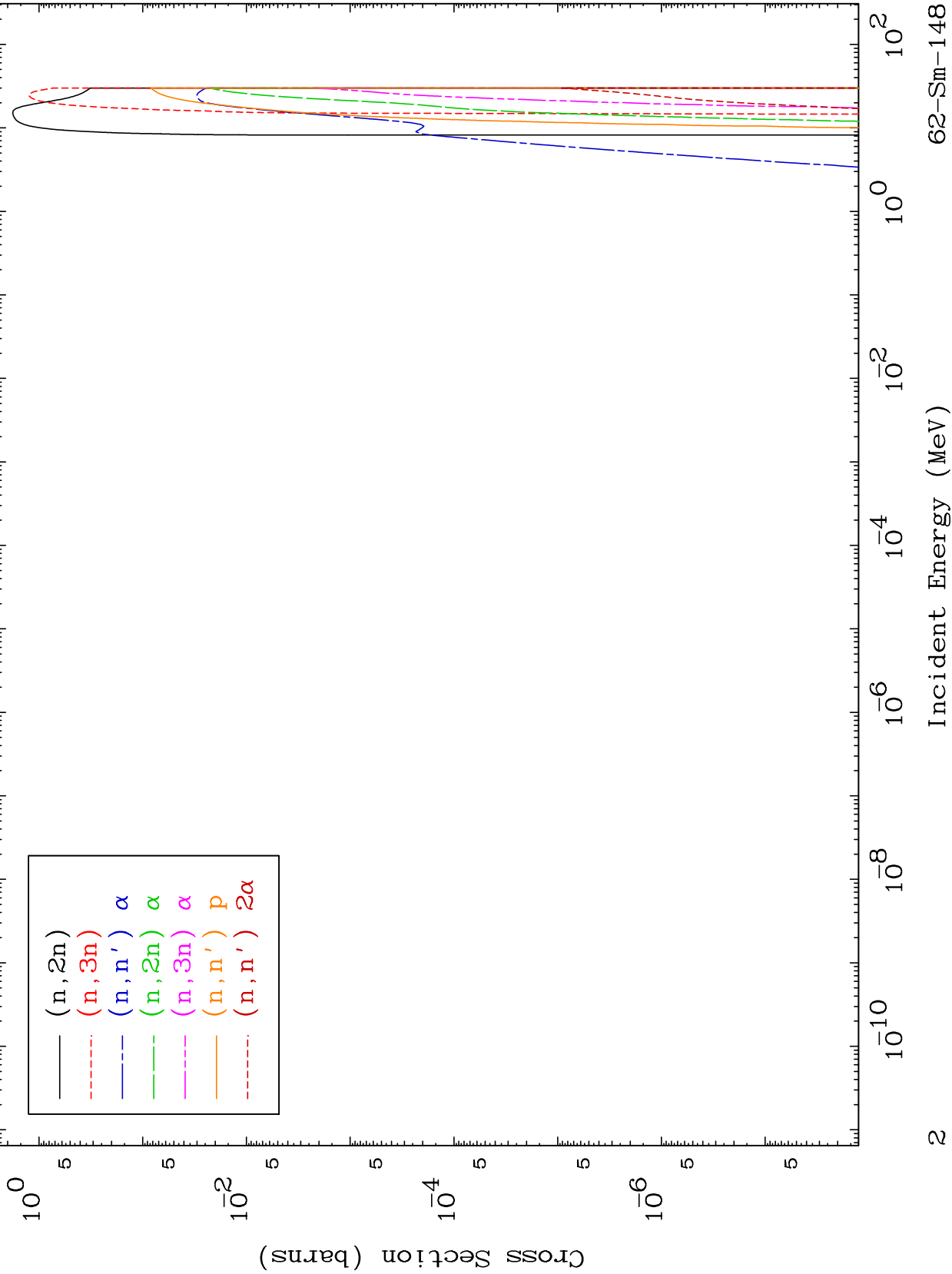
62-Sm-148

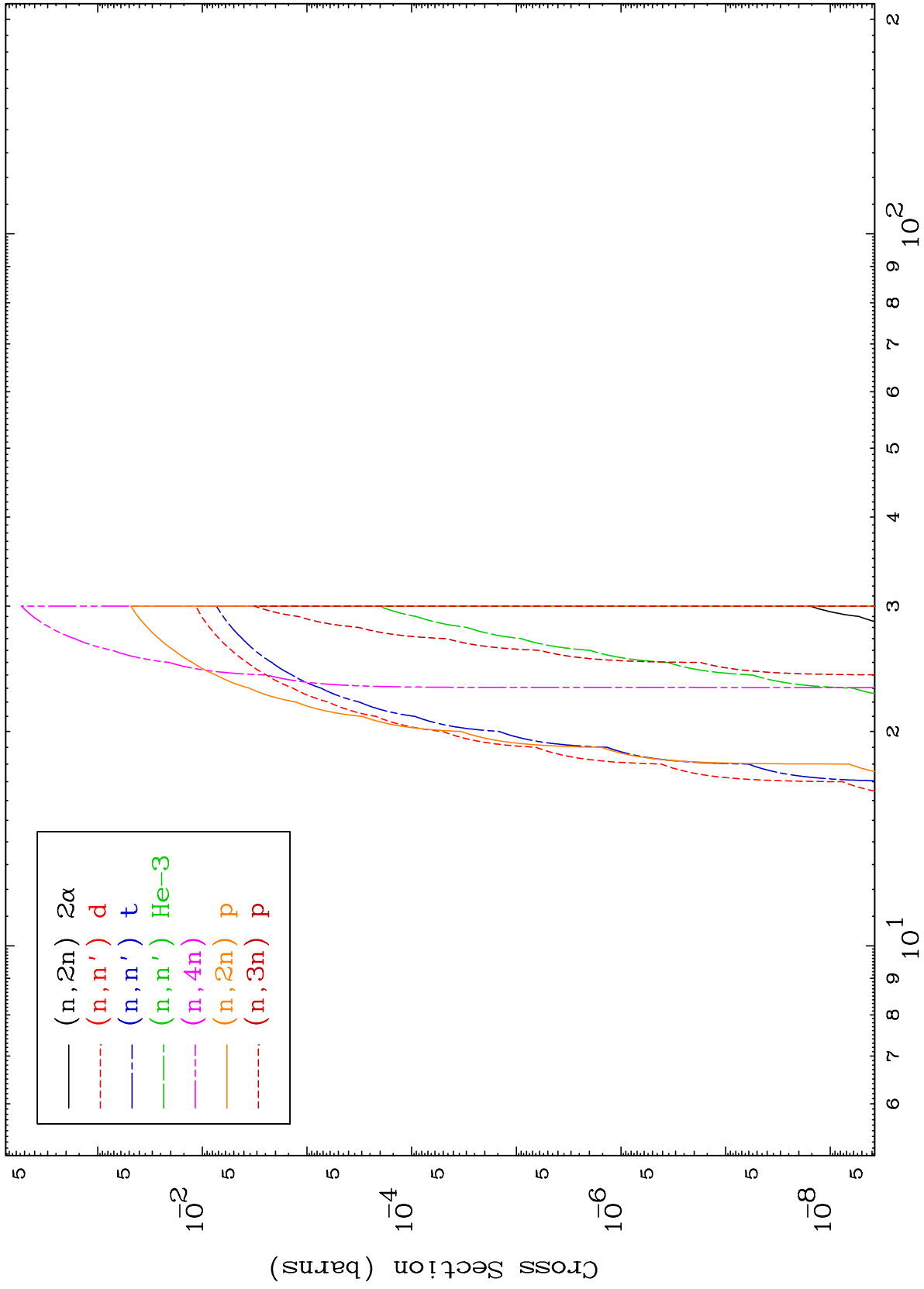


MAT 6237

Neutron Production  
293 Kelvin Cross Sections

62-Sm-148

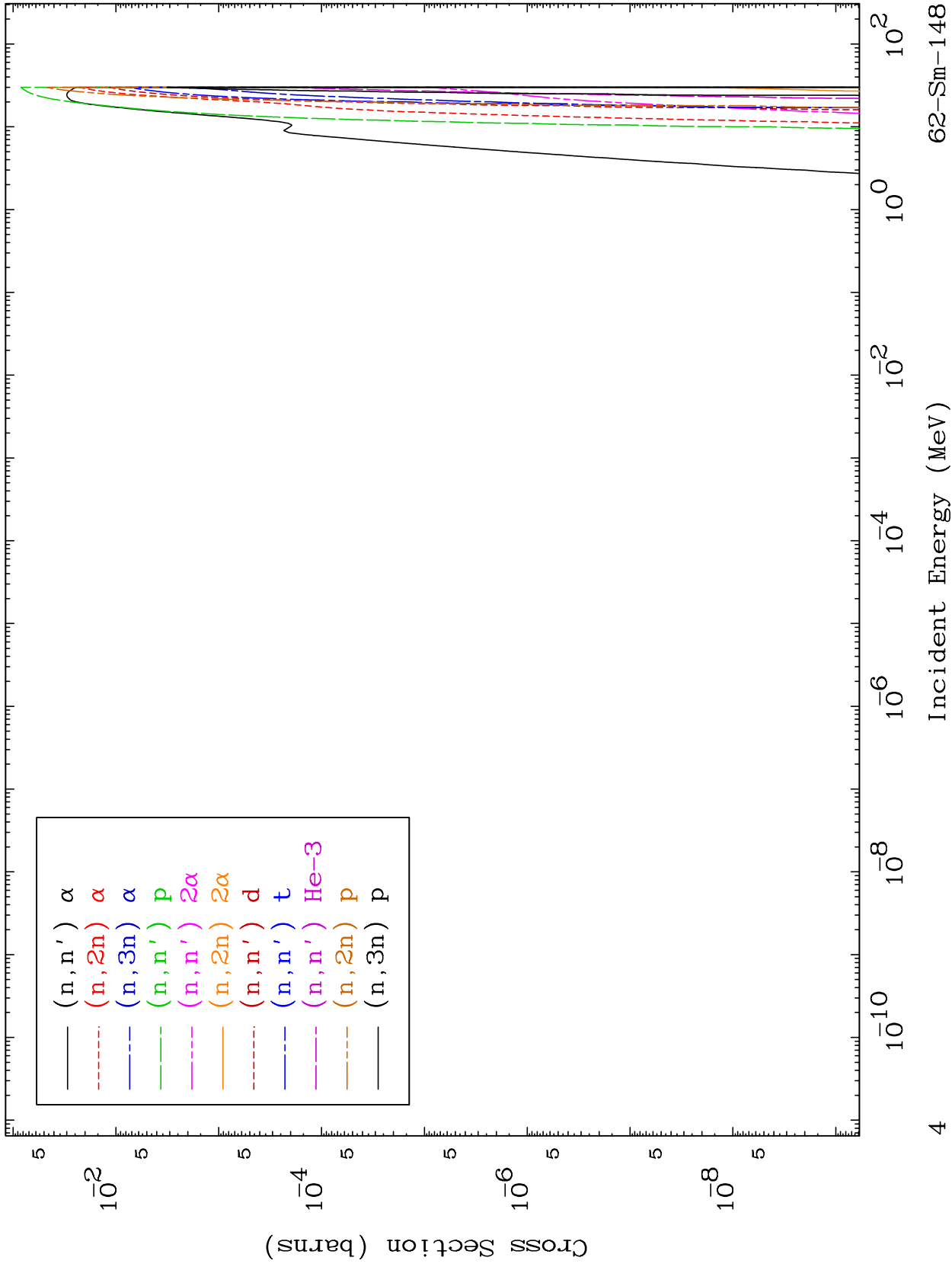




MAT 6237

Charged Particle  
293 Kelvin Cross Sections

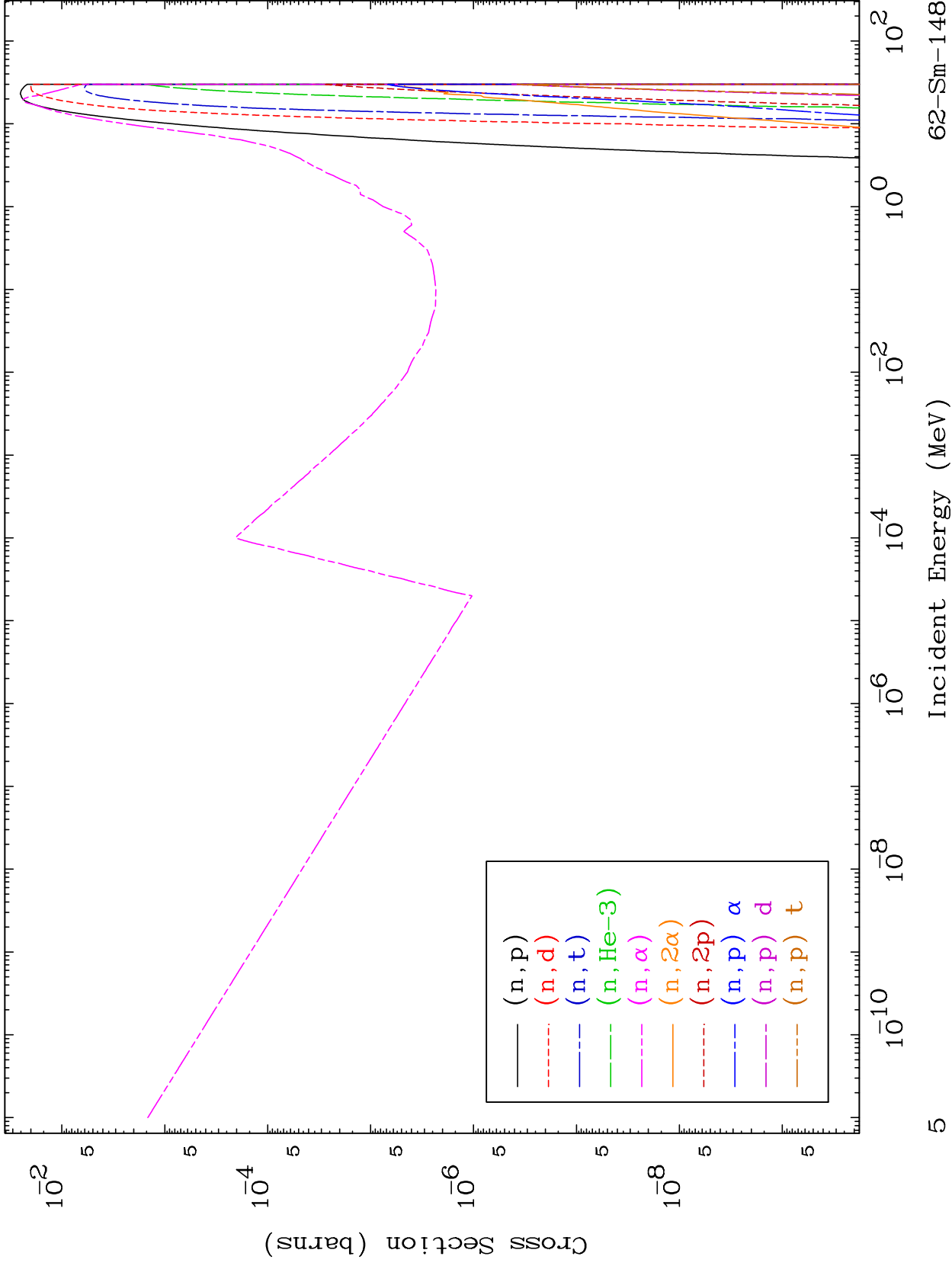
62-Sm-148

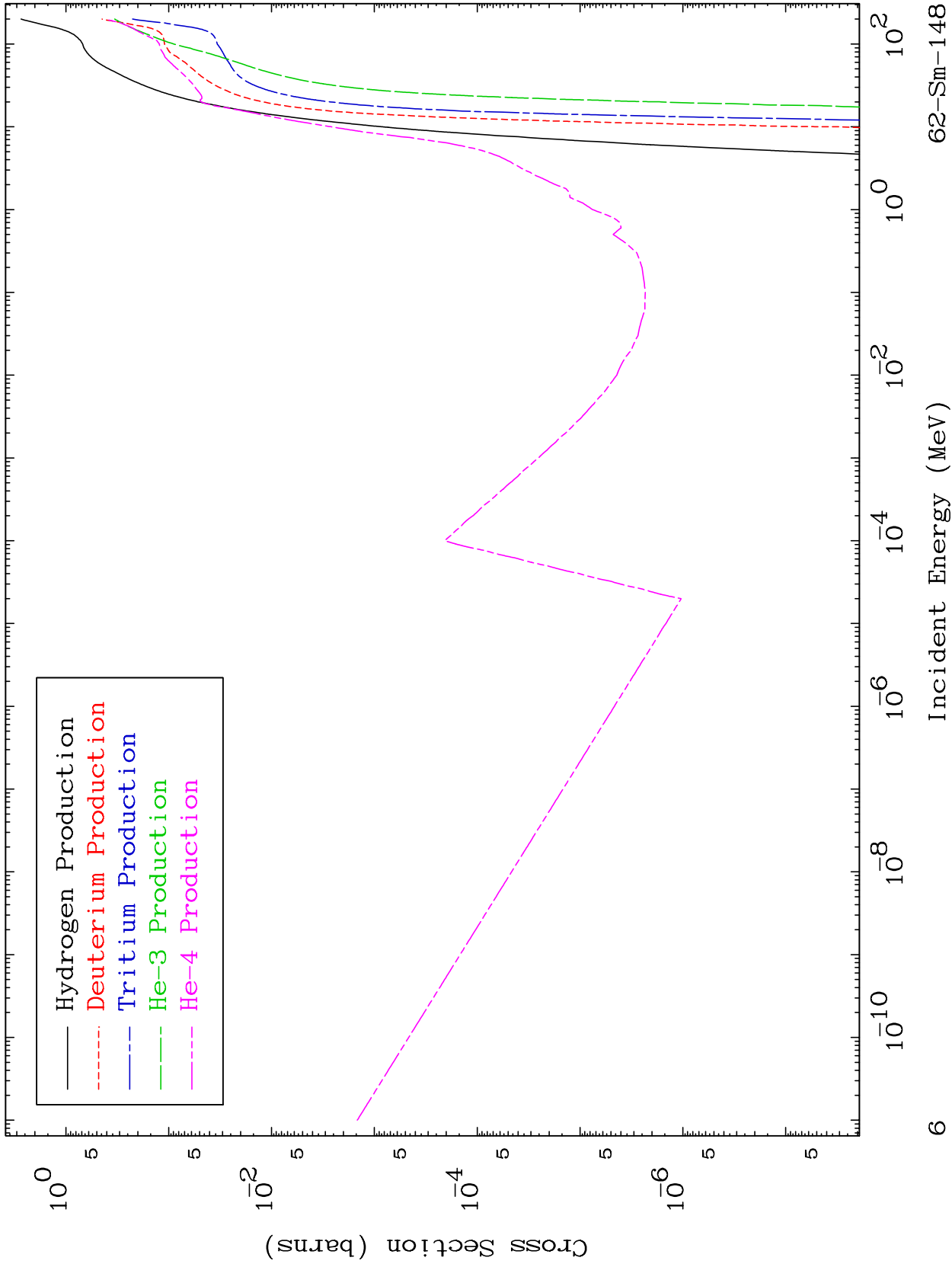


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Charged Particle  
293 Kelvin Cross Sections

62-Sm-148



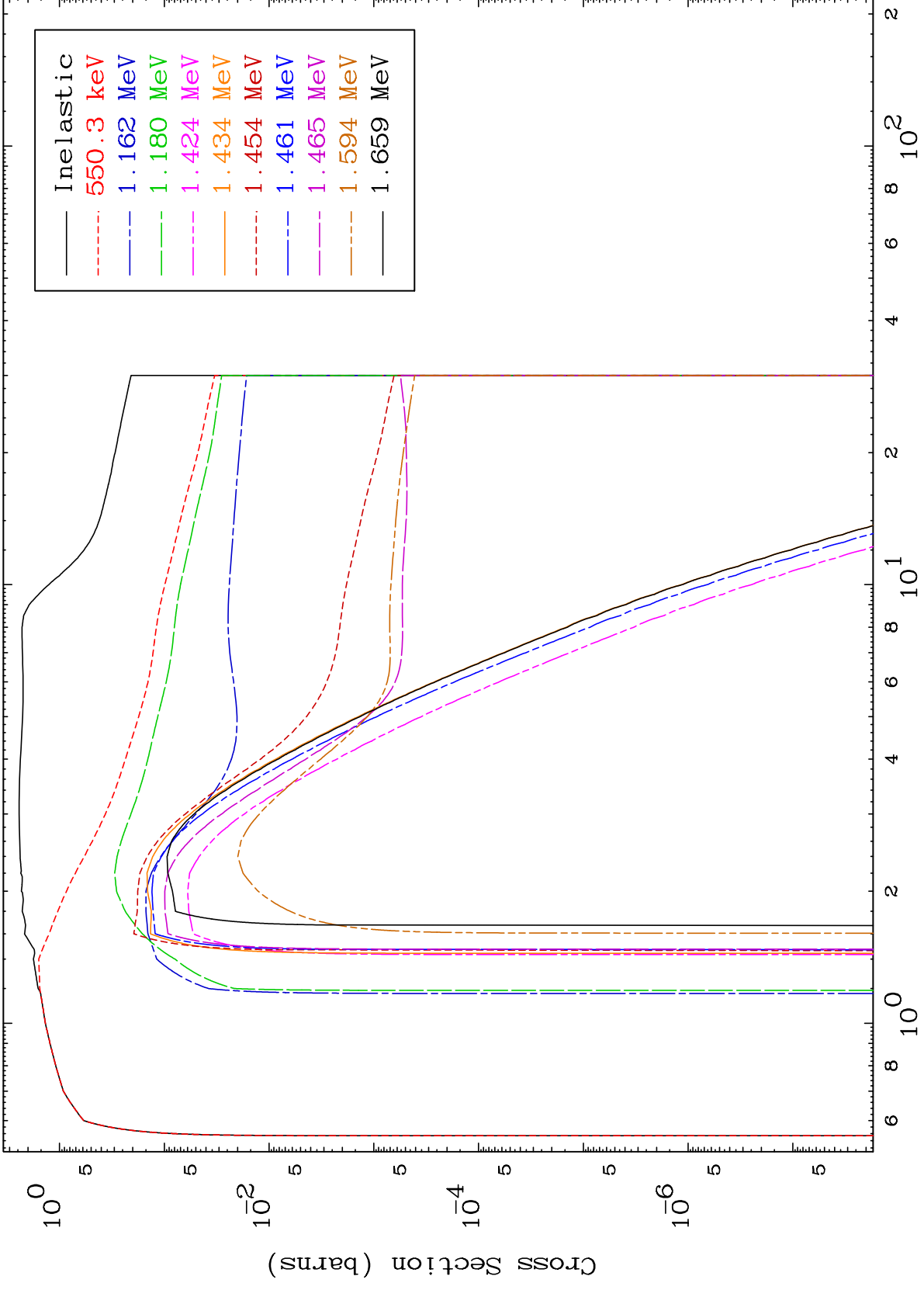


MAT 6237

(n,n') Level

62-Sm-148

293 Kelvin Cross Sections



Incident Energy (MeV)

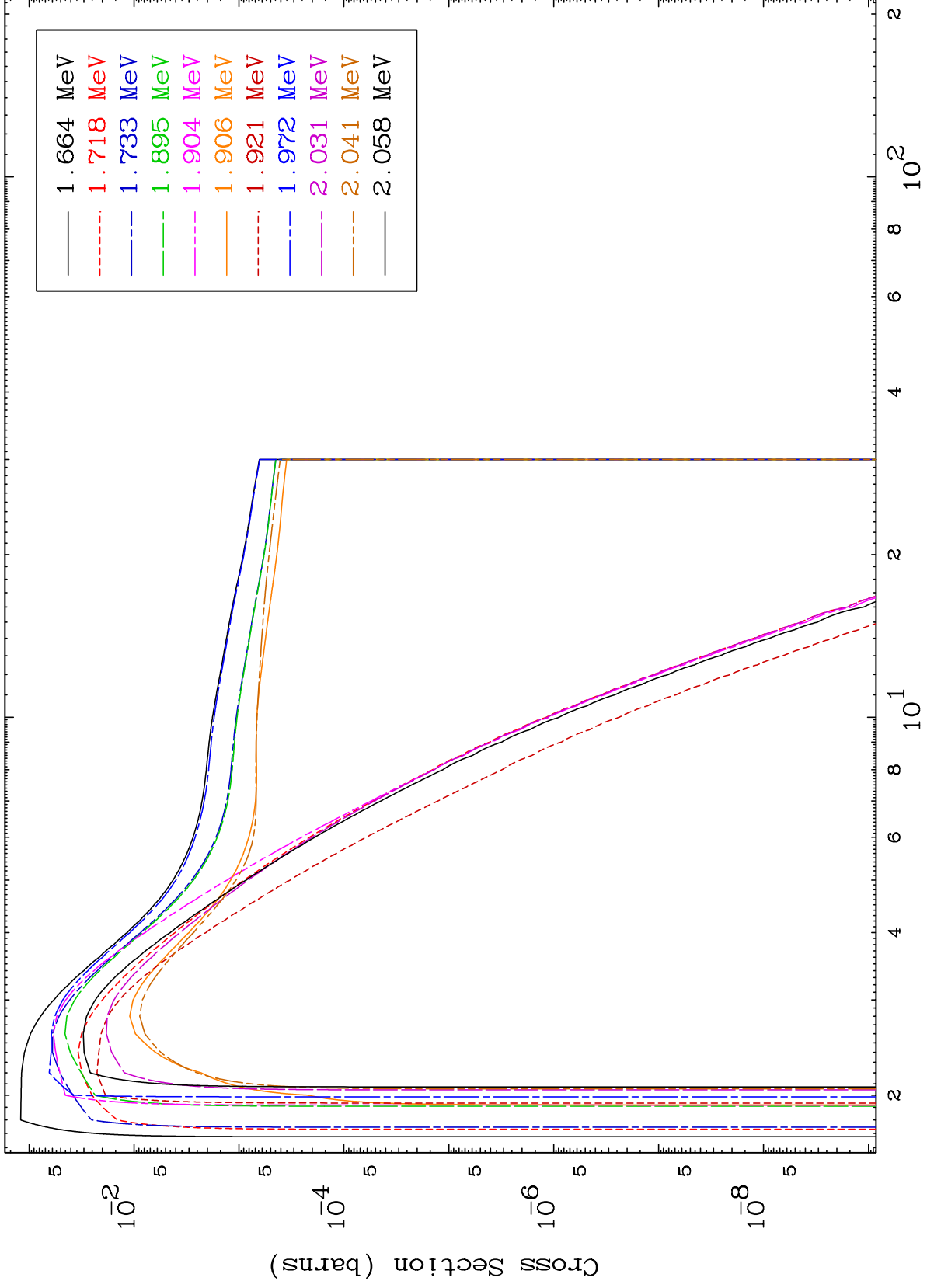
62-Sm-148



MAT 6237

(n,n') Level  
293 Kelvin Cross Sections

62-Sm-148



8

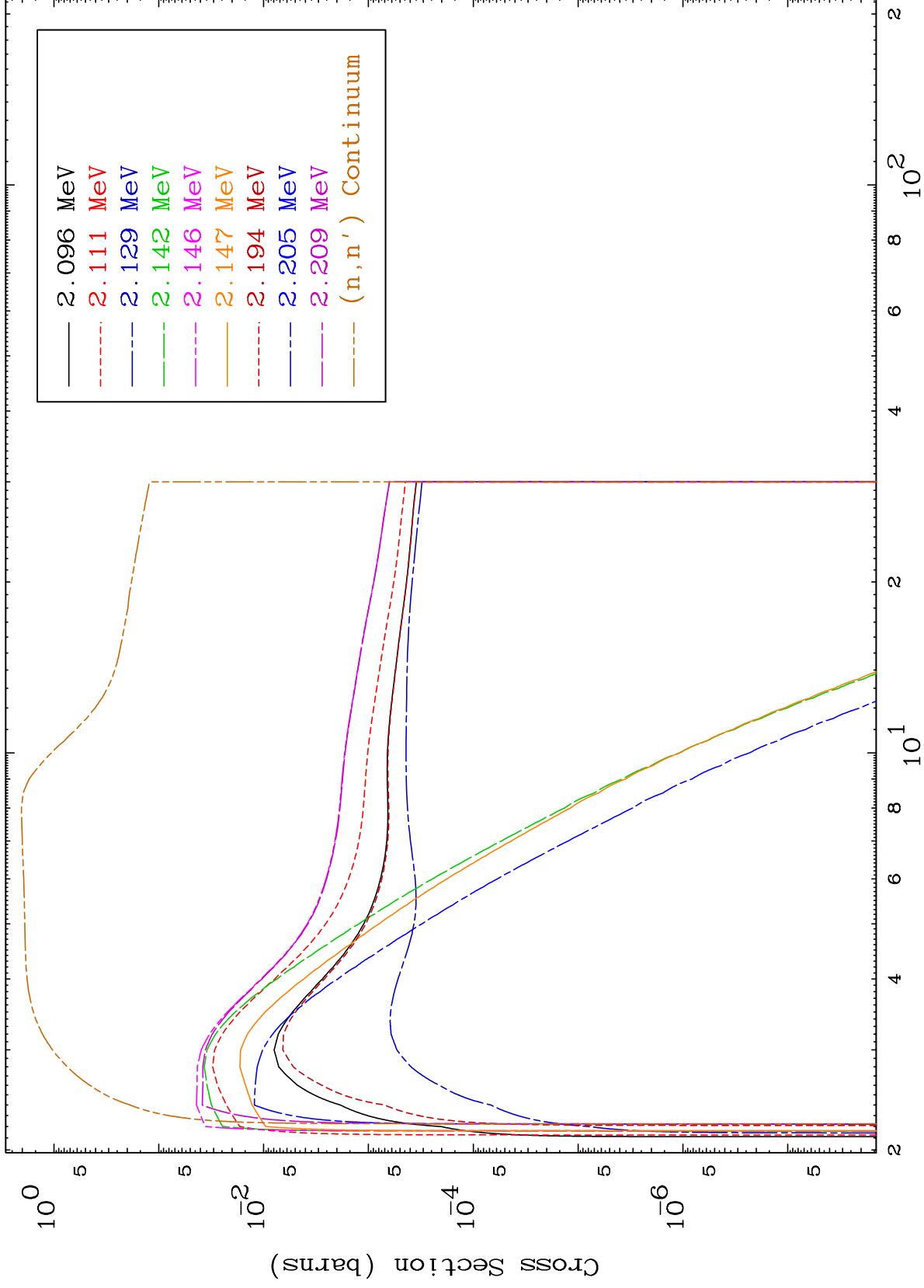
Incident Energy (MeV)

62-Sm-148

MAT 6237

(n,n') Level  
293 Kelvin Cross Sections

62-Sm-148



9

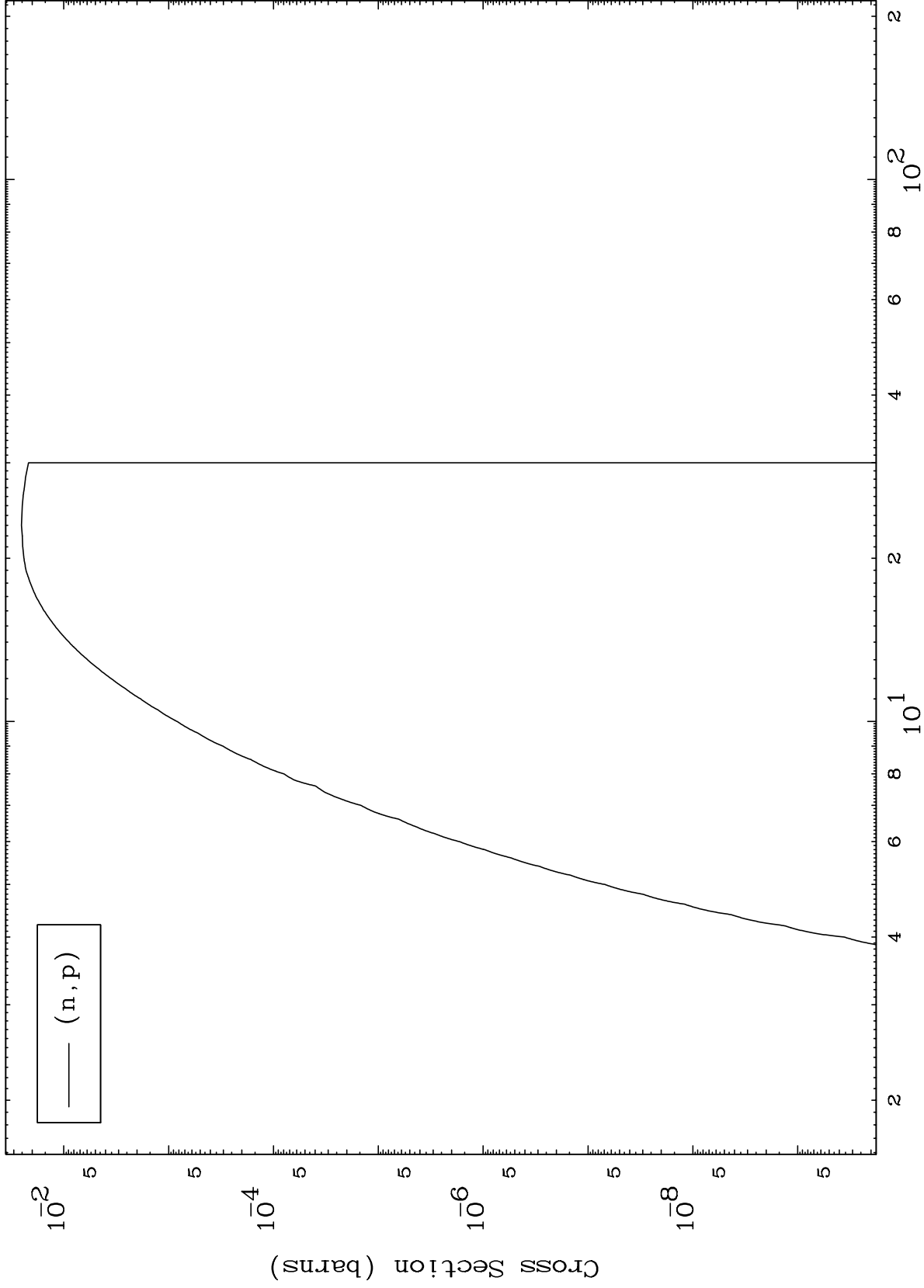
Incident Energy (MeV)

62-Sm-148

MAT 6237

(n,p) Levels  
293 Kelvin Cross Sections

62-Sm-148



10

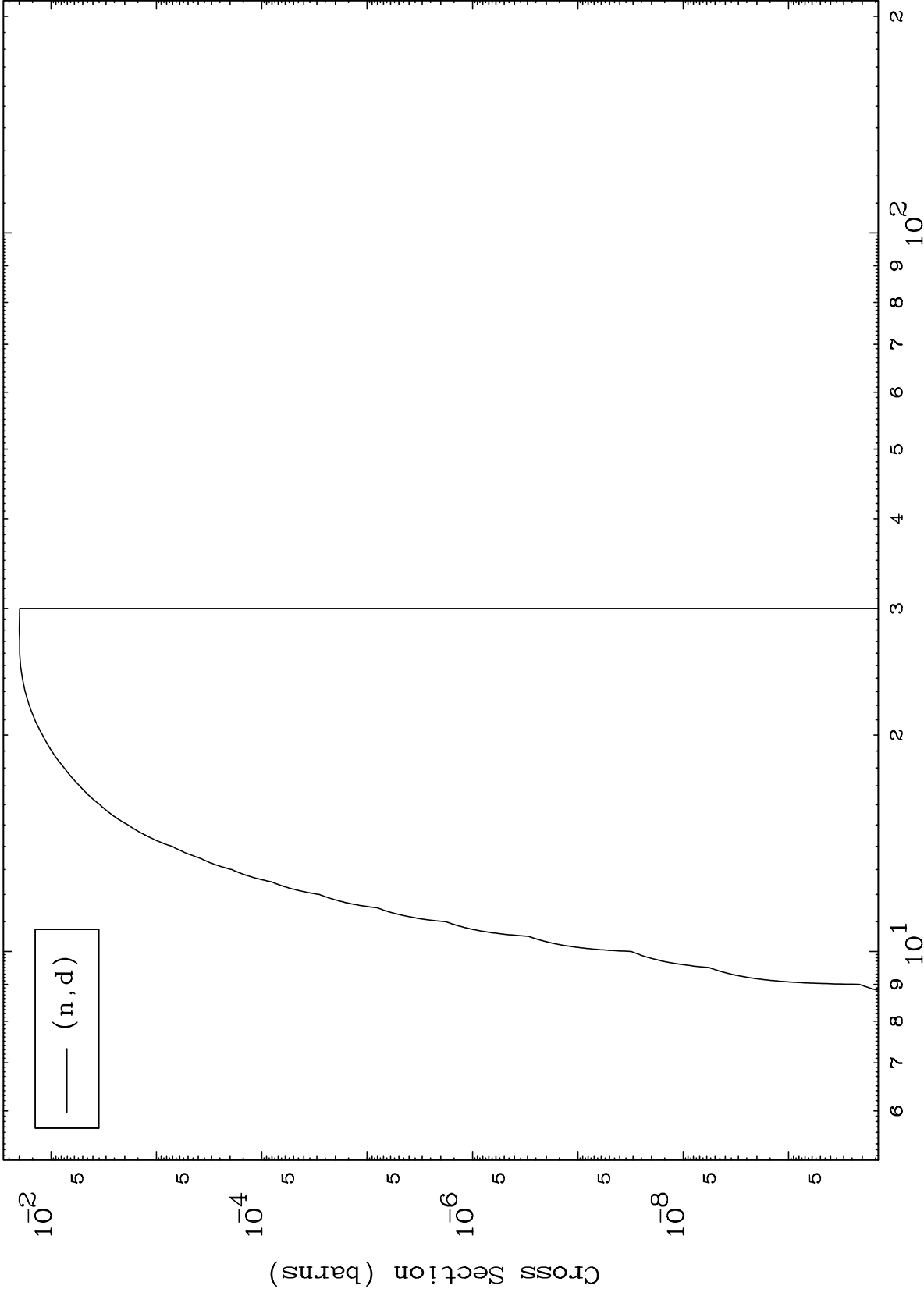
Incident Energy (MeV)

62-Sm-148

MAT 6237

(n,d) Levels  
293 Kelvin Cross Sections

62-Sm-148



11

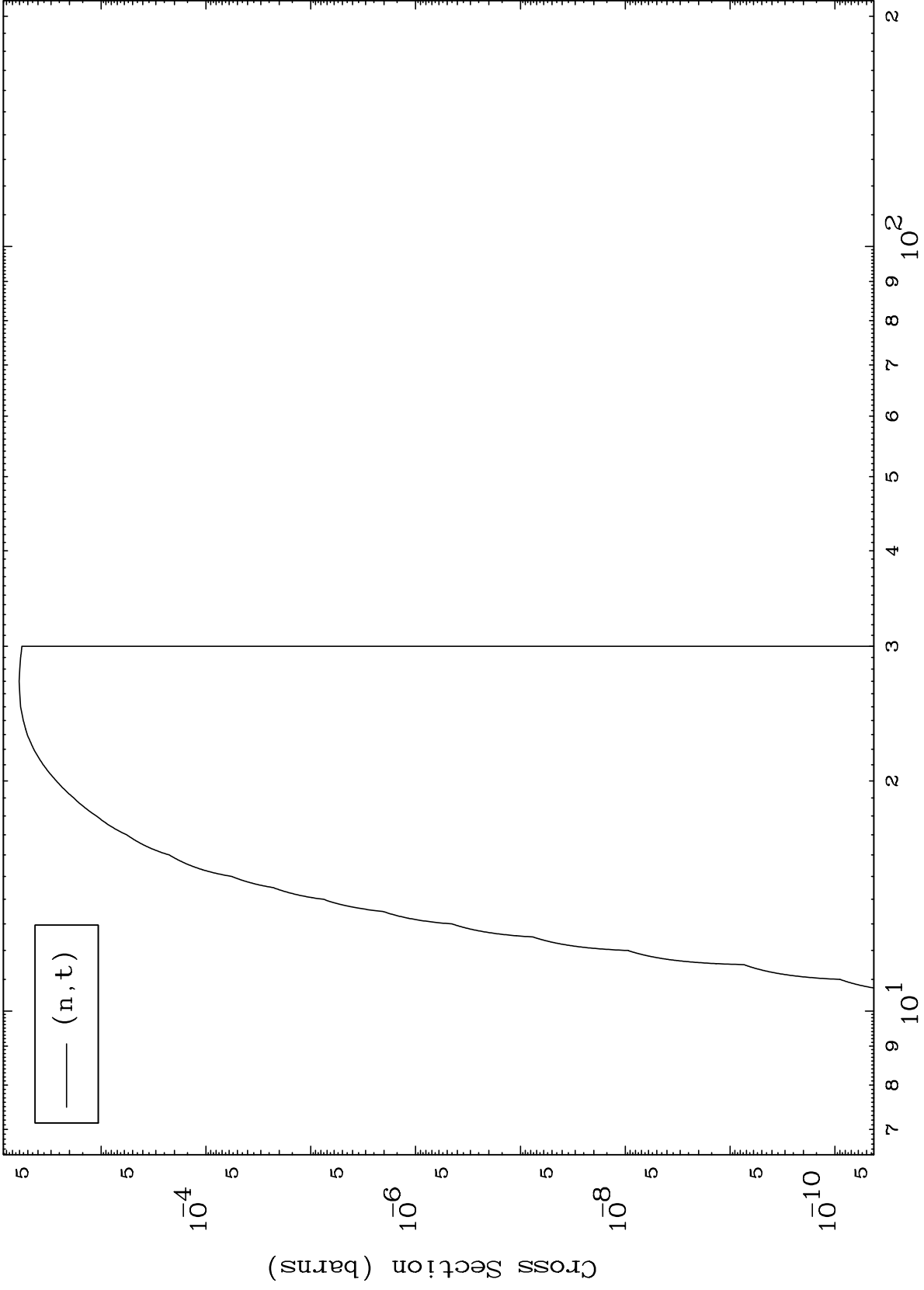
Incident Energy (MeV)

62-Sm-148

MAT 6237

(n,t) Levels  
293 Kelvin Cross Sections

62-Sm-148



12

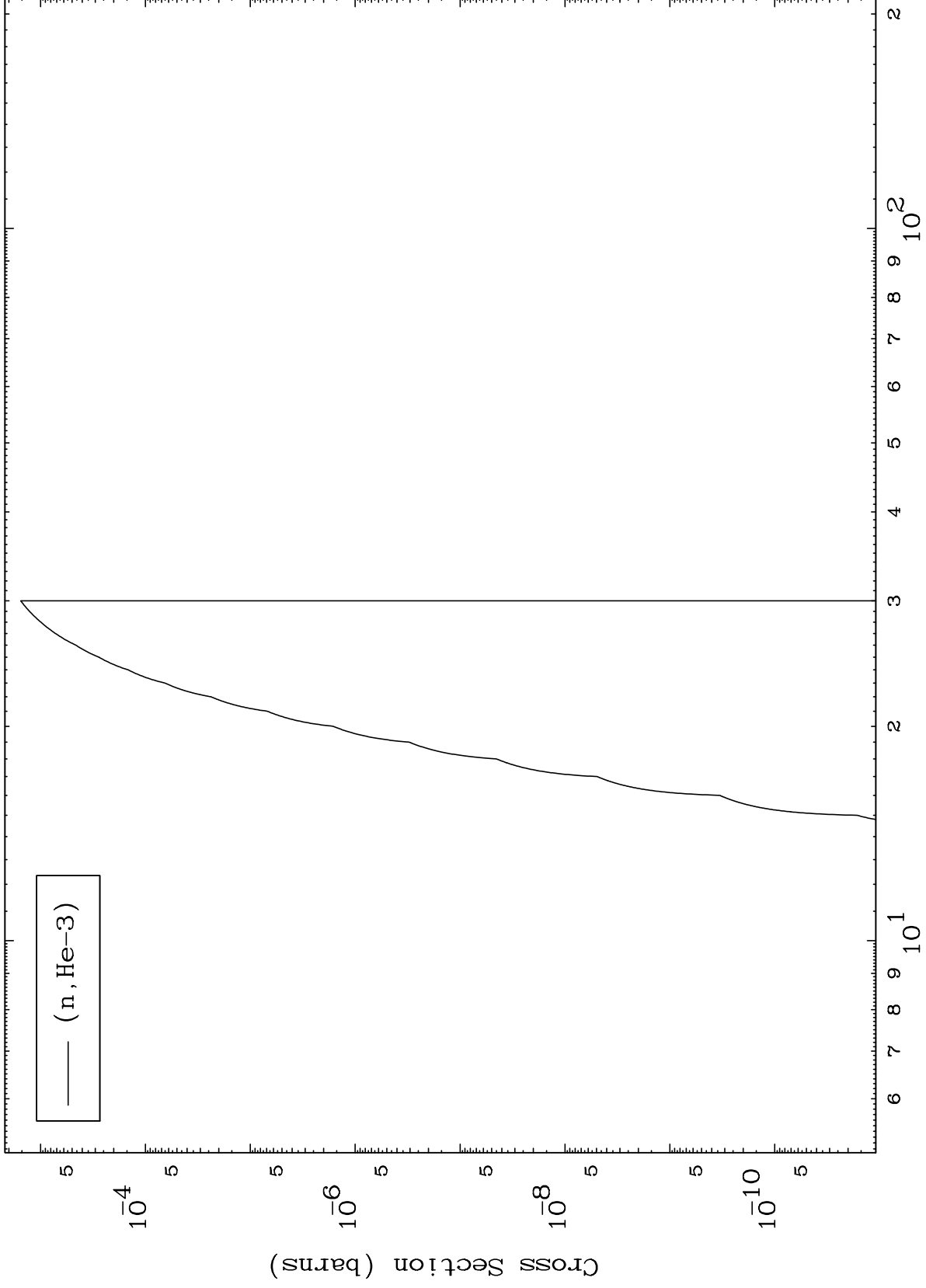
Incident Energy (MeV)

62-Sm-148

MAT 6237

(n,He3) Levels  
293 Kelvin Cross Sections

62-Sm-148



13

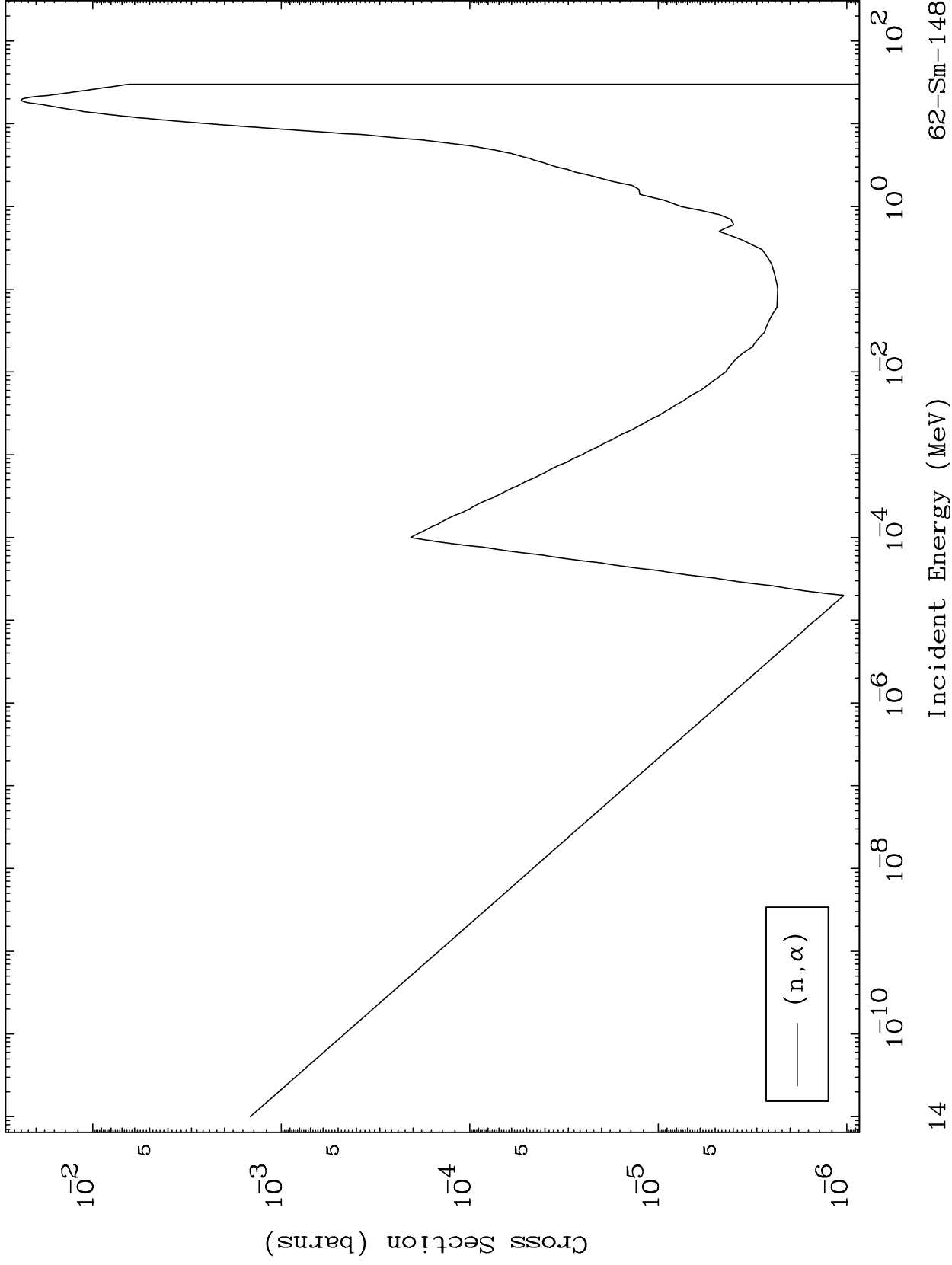
Incident Energy (MeV)

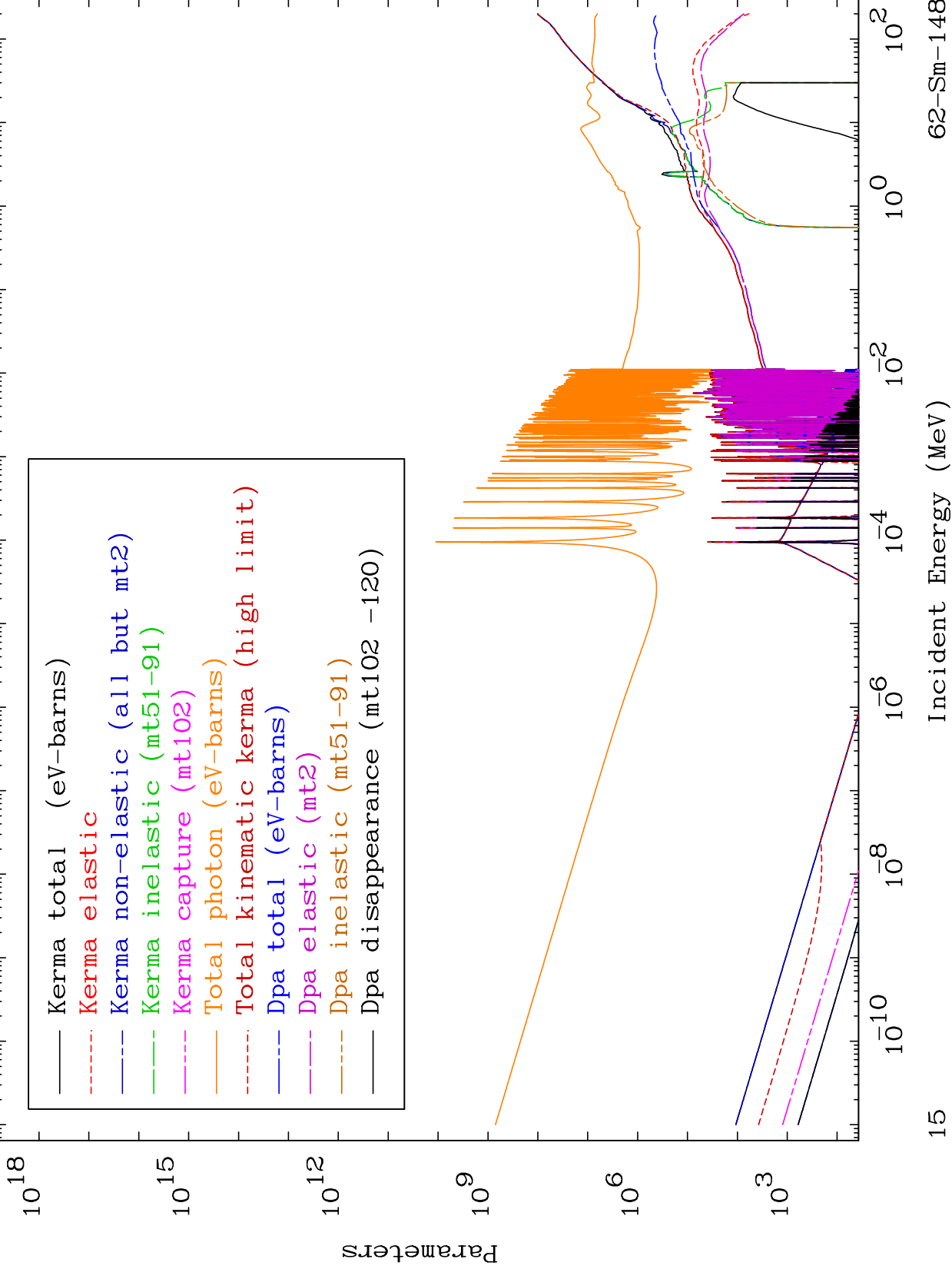
62-Sm-148

MAT 6237

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

62-Sm-148



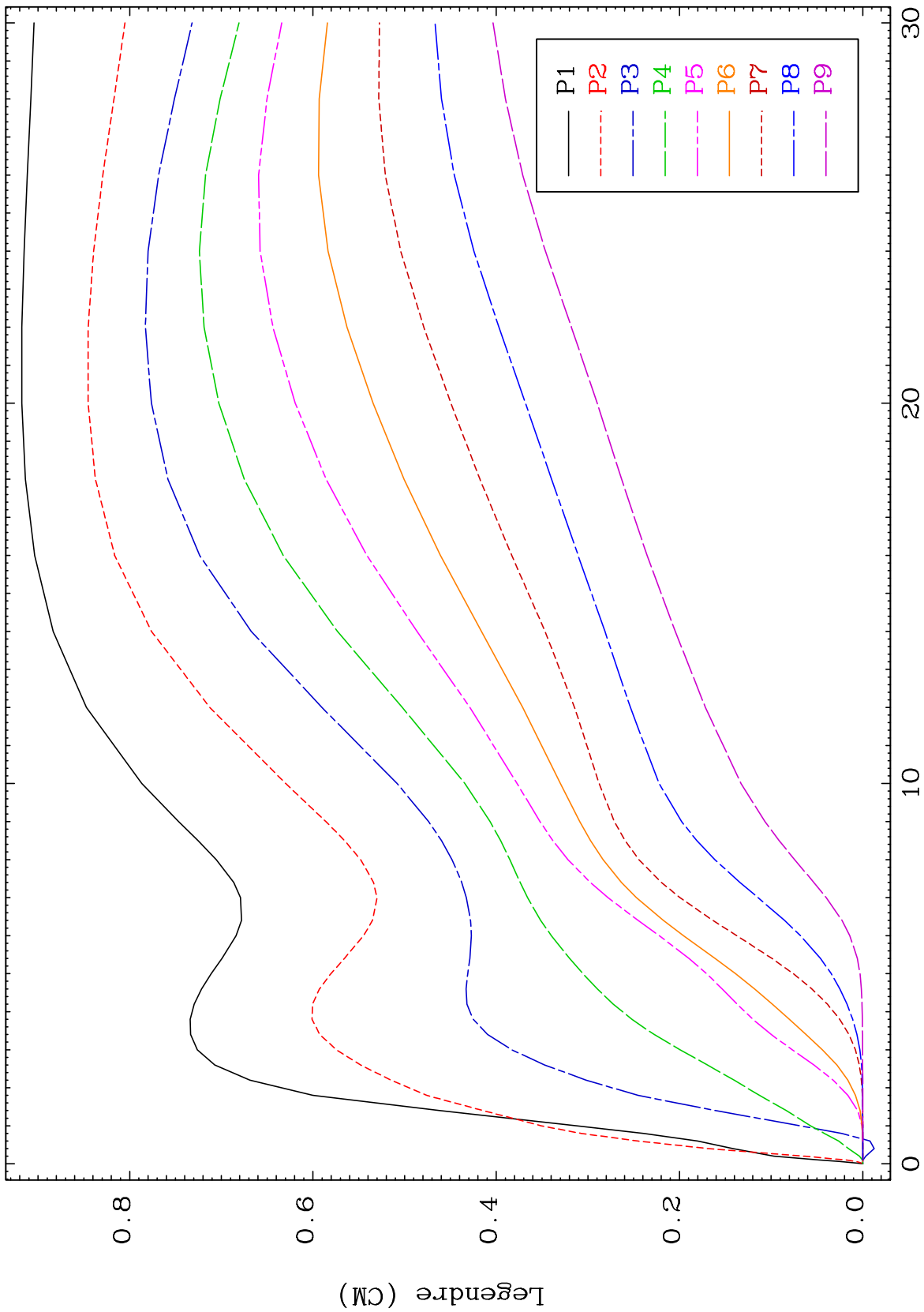




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Elastic Legendre Coefficients

62-Sm-148



16

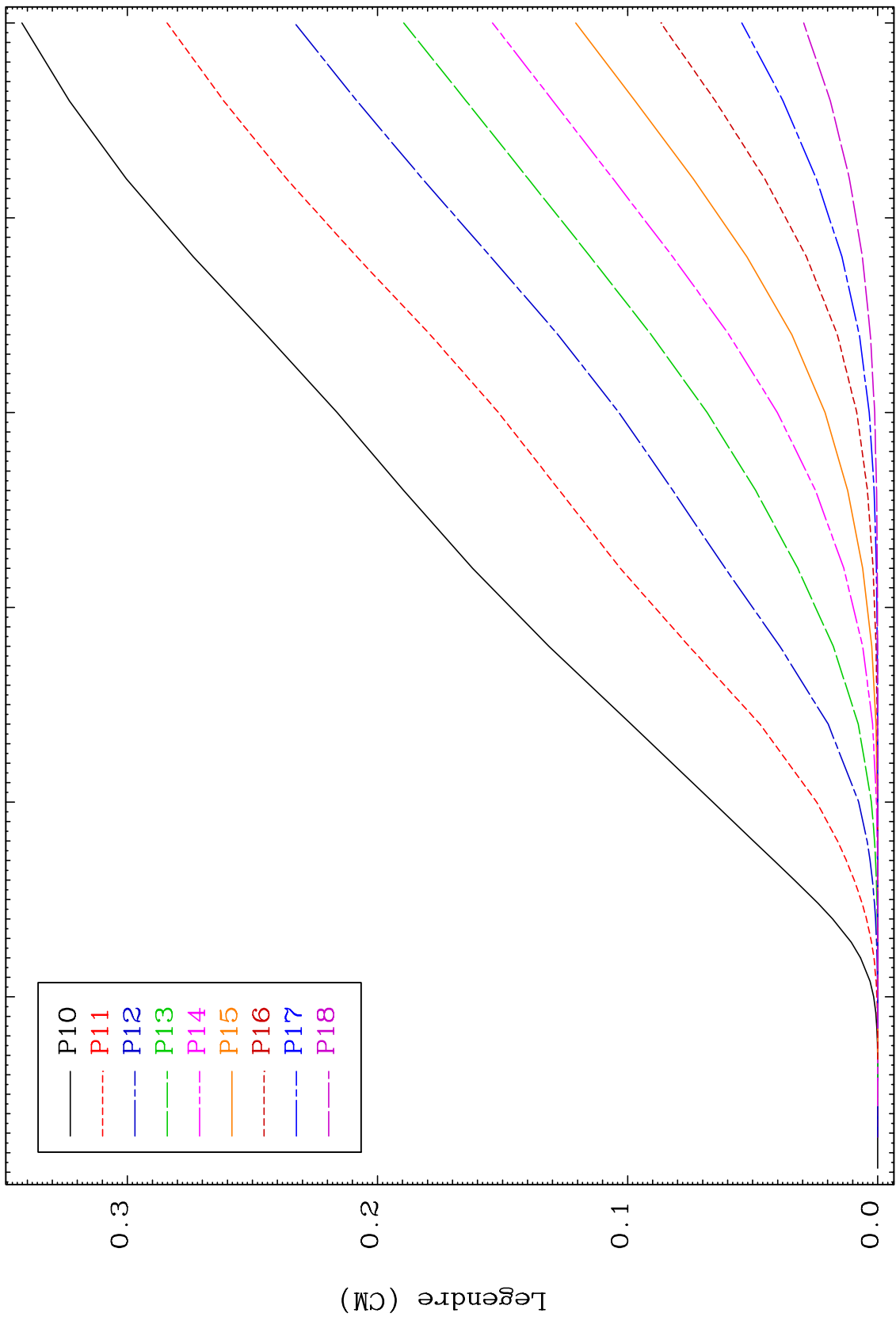
Incident Energy (MeV)

62-Sm-148

MAT 6237

Elastic Legendre Coefficients

62-Sm-148



17

62-Sm-148

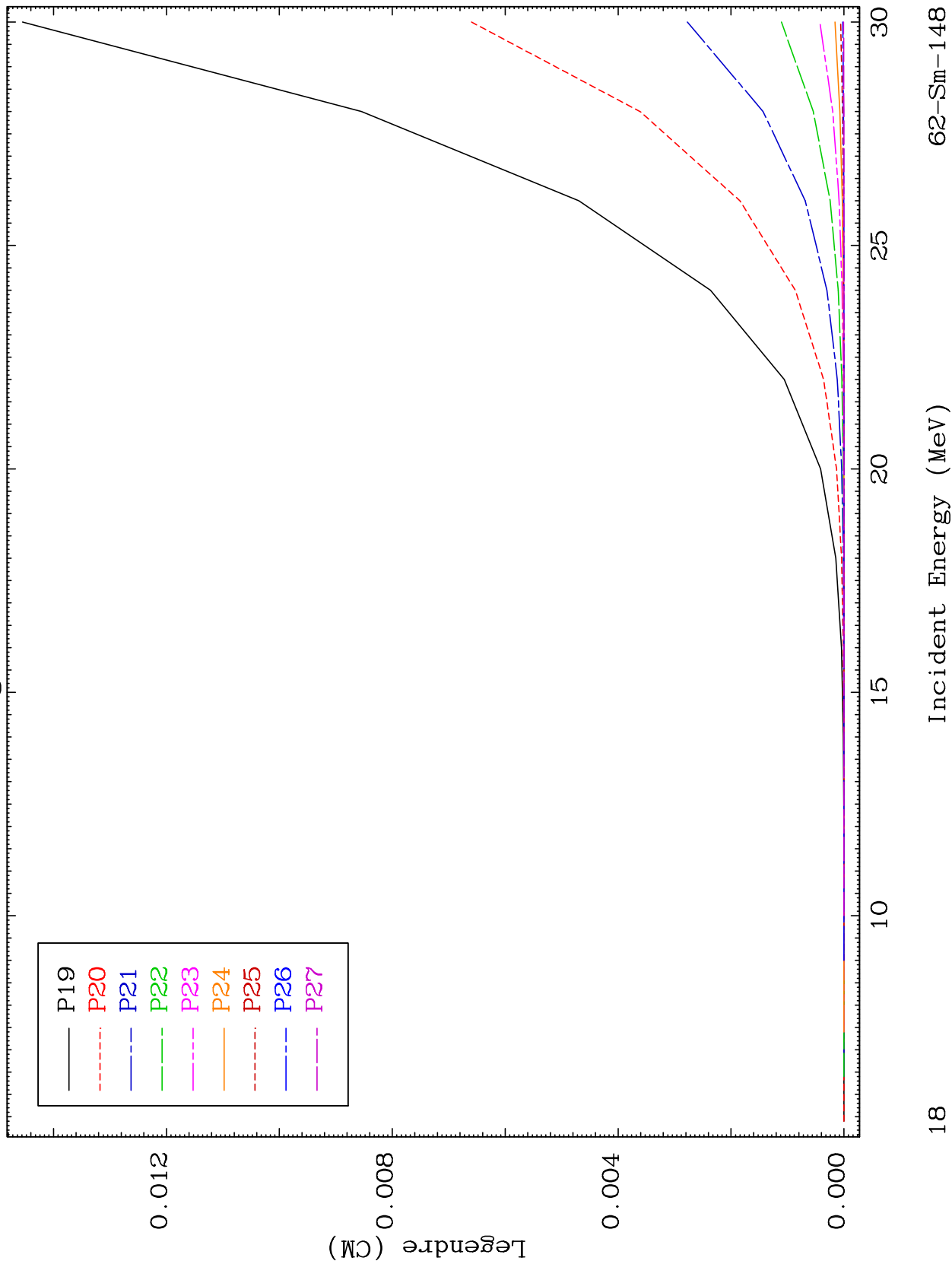
Incident Energy (MeV)

- P10 (solid black line)
- P11 (dashed red line)
- P12 (dash-dot blue line)
- P13 (dashed green line)
- P14 (dashed magenta line)
- P15 (solid orange line)
- P16 (dashed brown line)
- P17 (dash-dot blue line)
- P18 (dashed purple line)

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### Elastic Legendre Coefficients

62-Sm-148



18

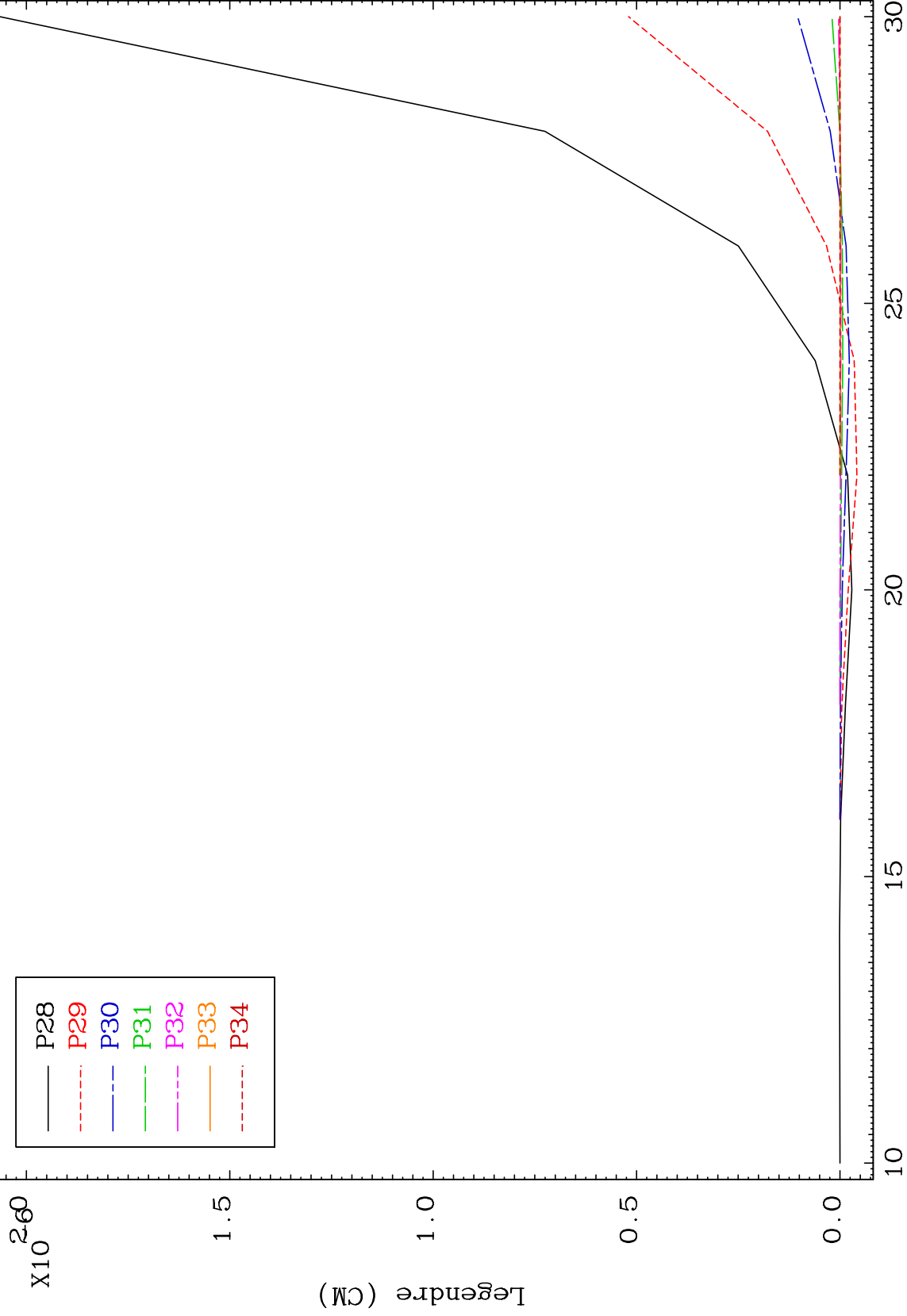
Incident Energy (MeV)

62-Sm-148

MAT 6237

Elastic  
Legendre Coefficients

62-Sm-148



19

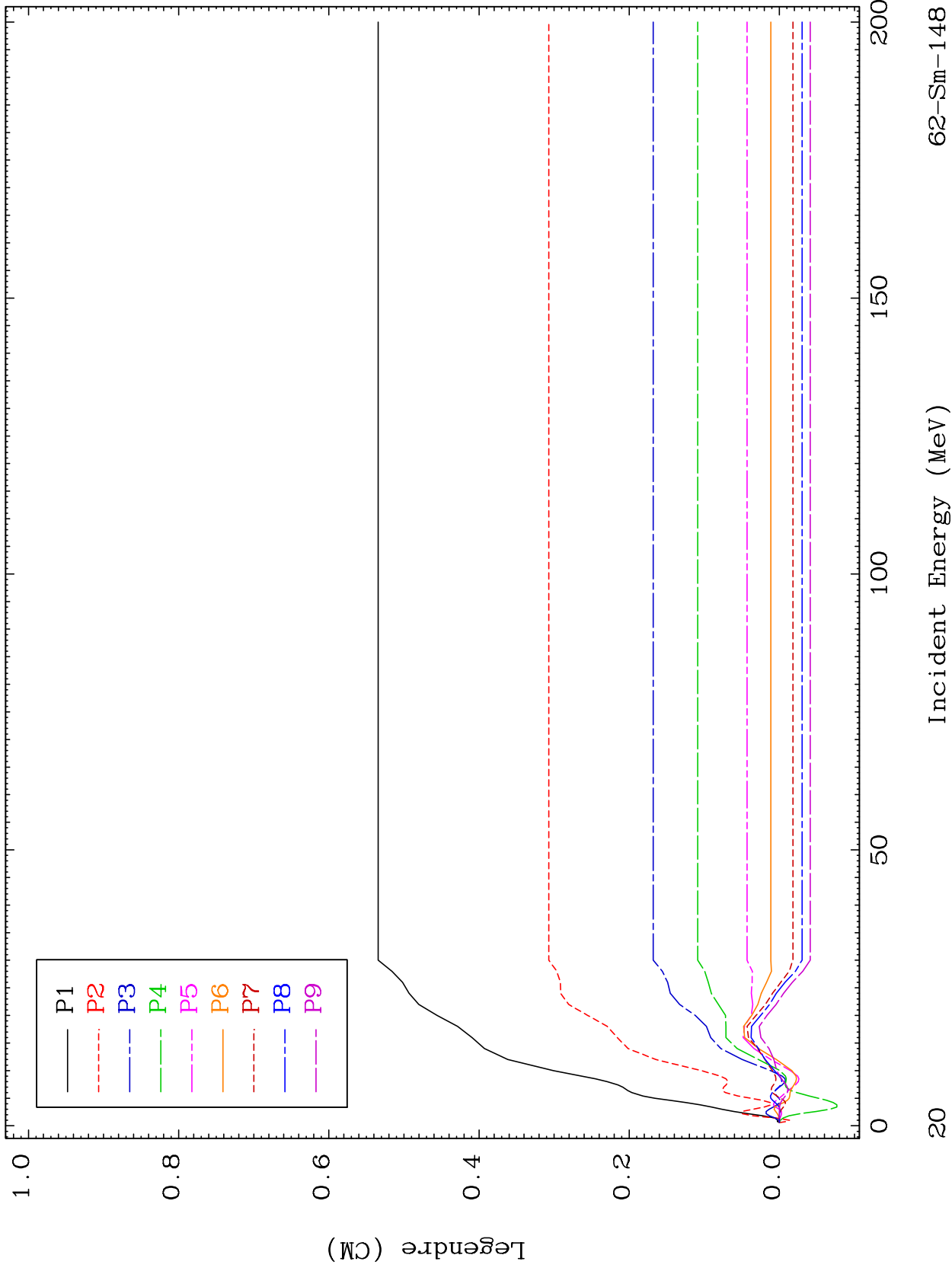
Incident Energy (MeV)

62-Sm-148

MAT 6237

550.3 keV (n,n') Level  
Legendre Coefficients

62-Sm-148



62-Sm-148

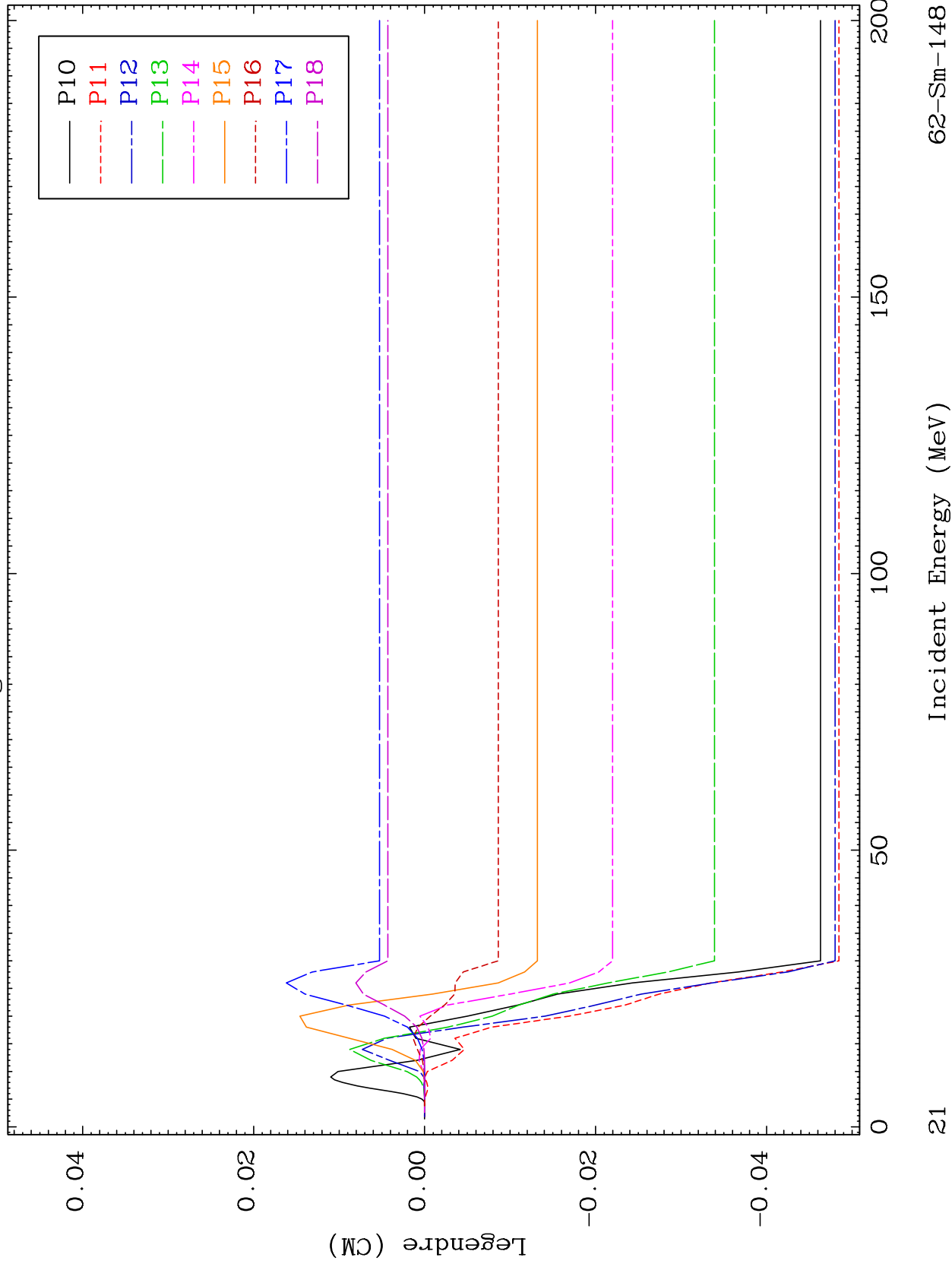
Incident Energy (MeV)

20

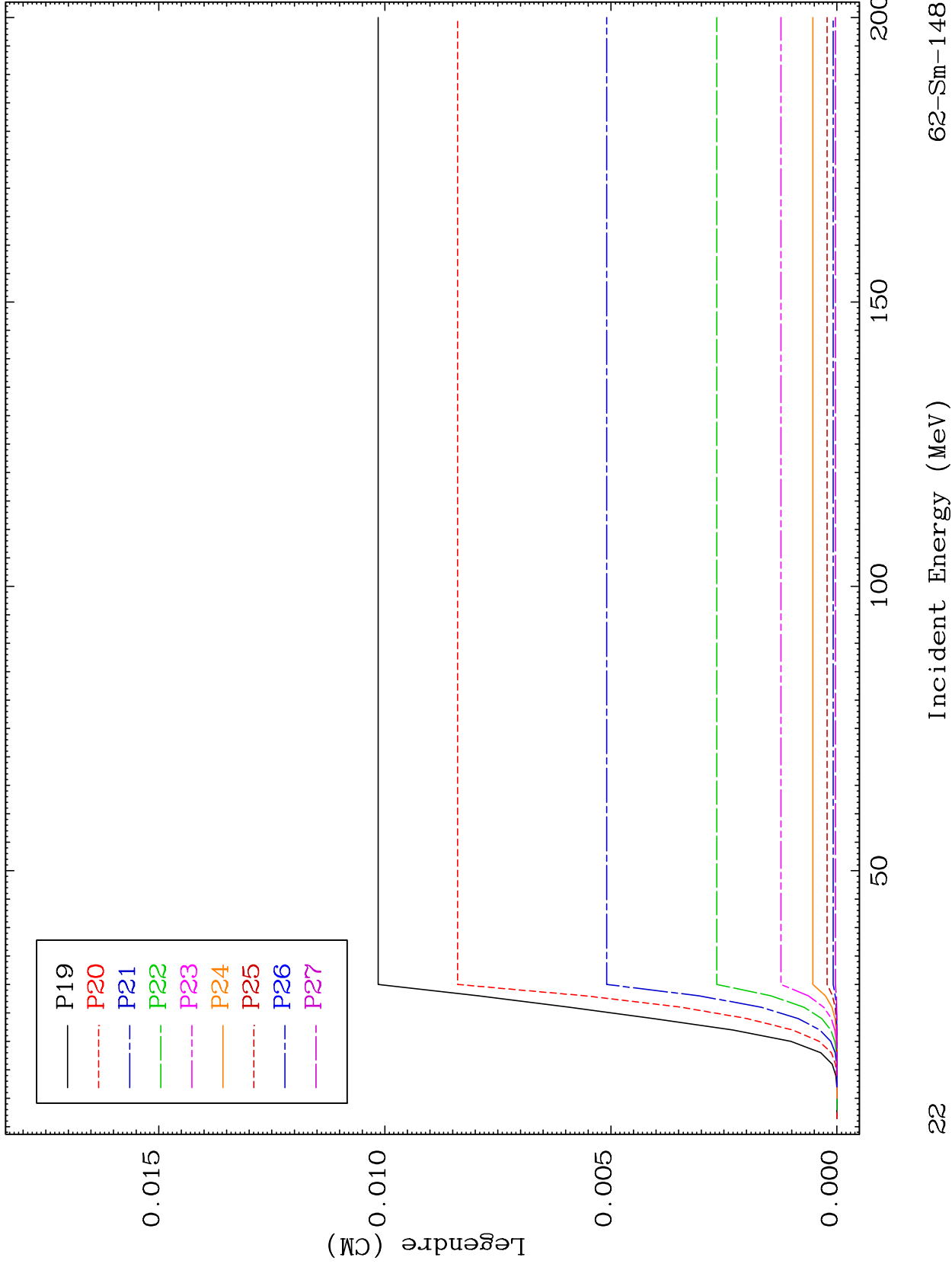
MAT 6237

550.3 keV (n,n') Level  
Legendre Coefficients

62-Sm-148



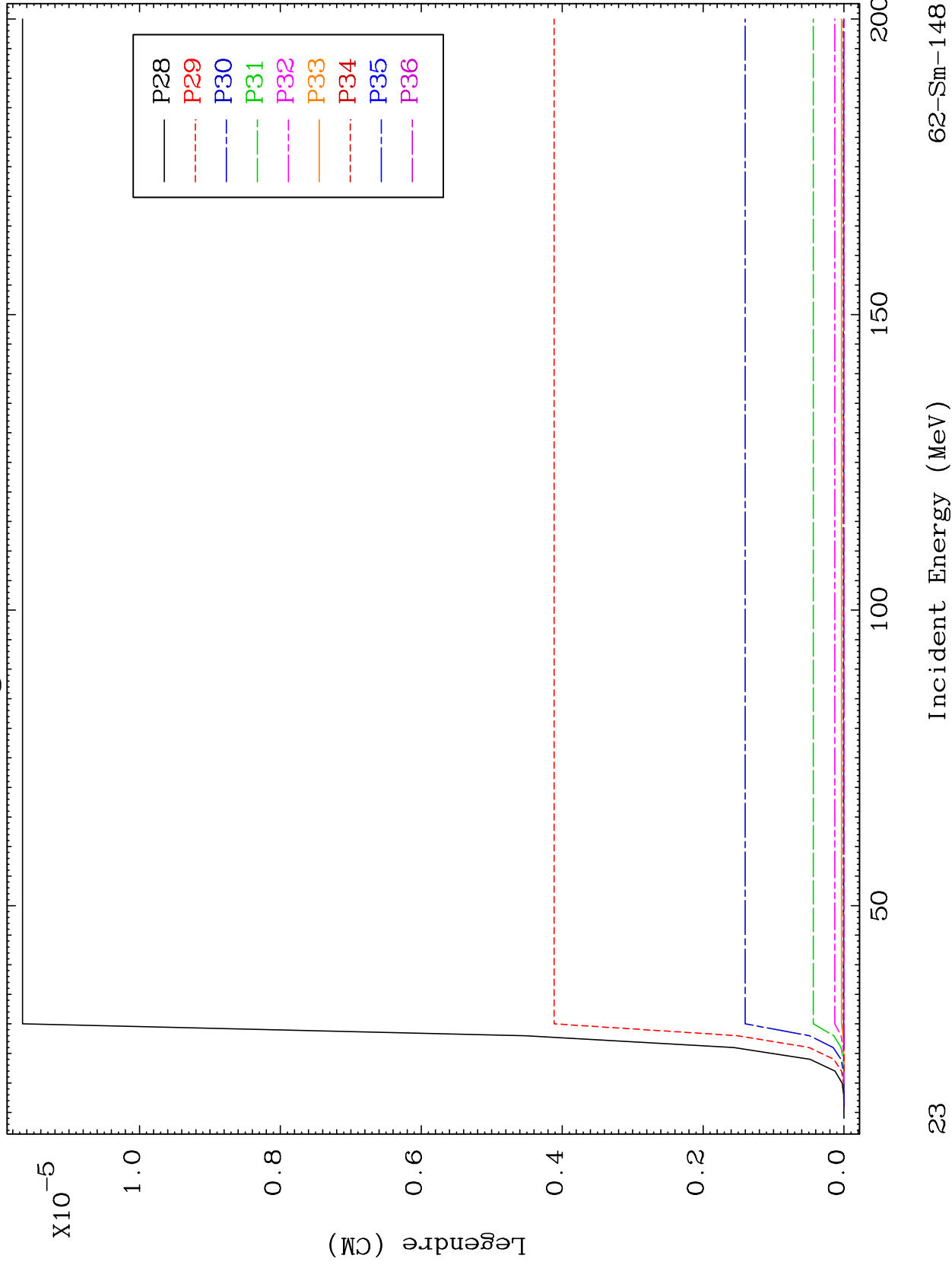
21



MAT 6237

550.3 keV (n,n') Level  
Legendre Coefficients

62-Sm-148



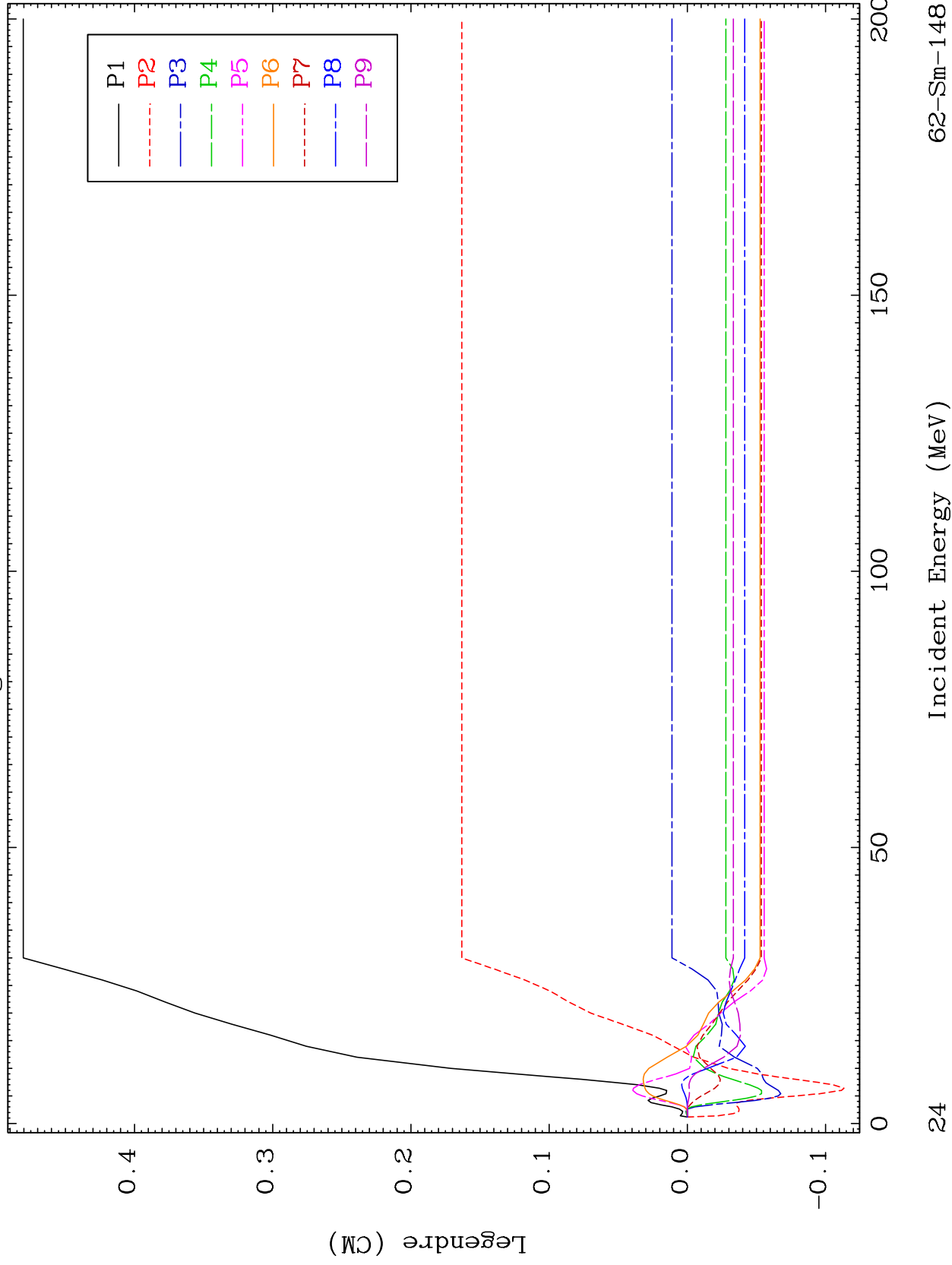
23



MAT 6237

1.162 MeV (n,n') Level  
Legendre Coefficients

62-Sm-148



62-Sm-148

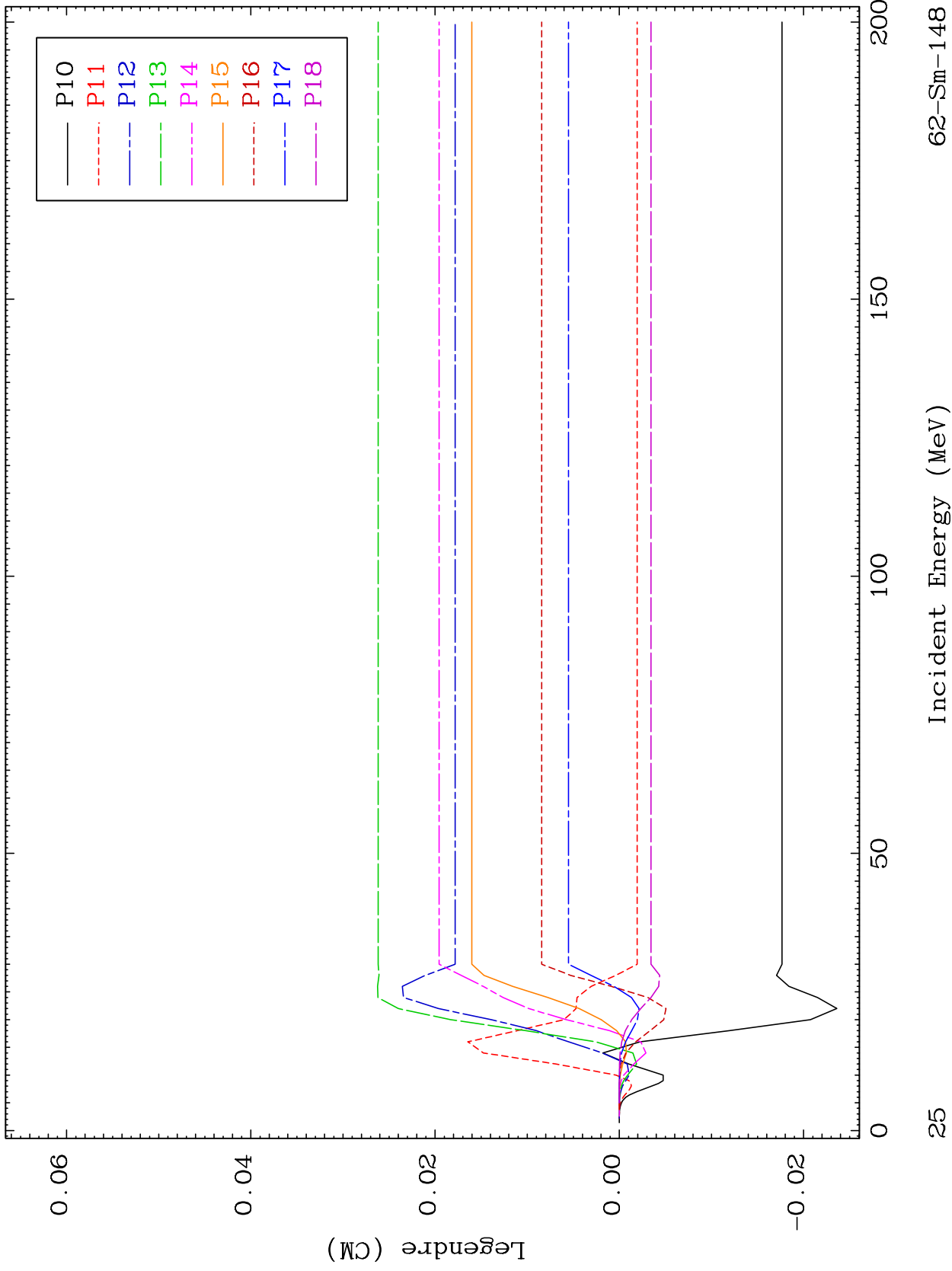
Incident Energy (MeV)

24

MAT 6237

1.162 MeV (n,n') Level  
Legendre Coefficients

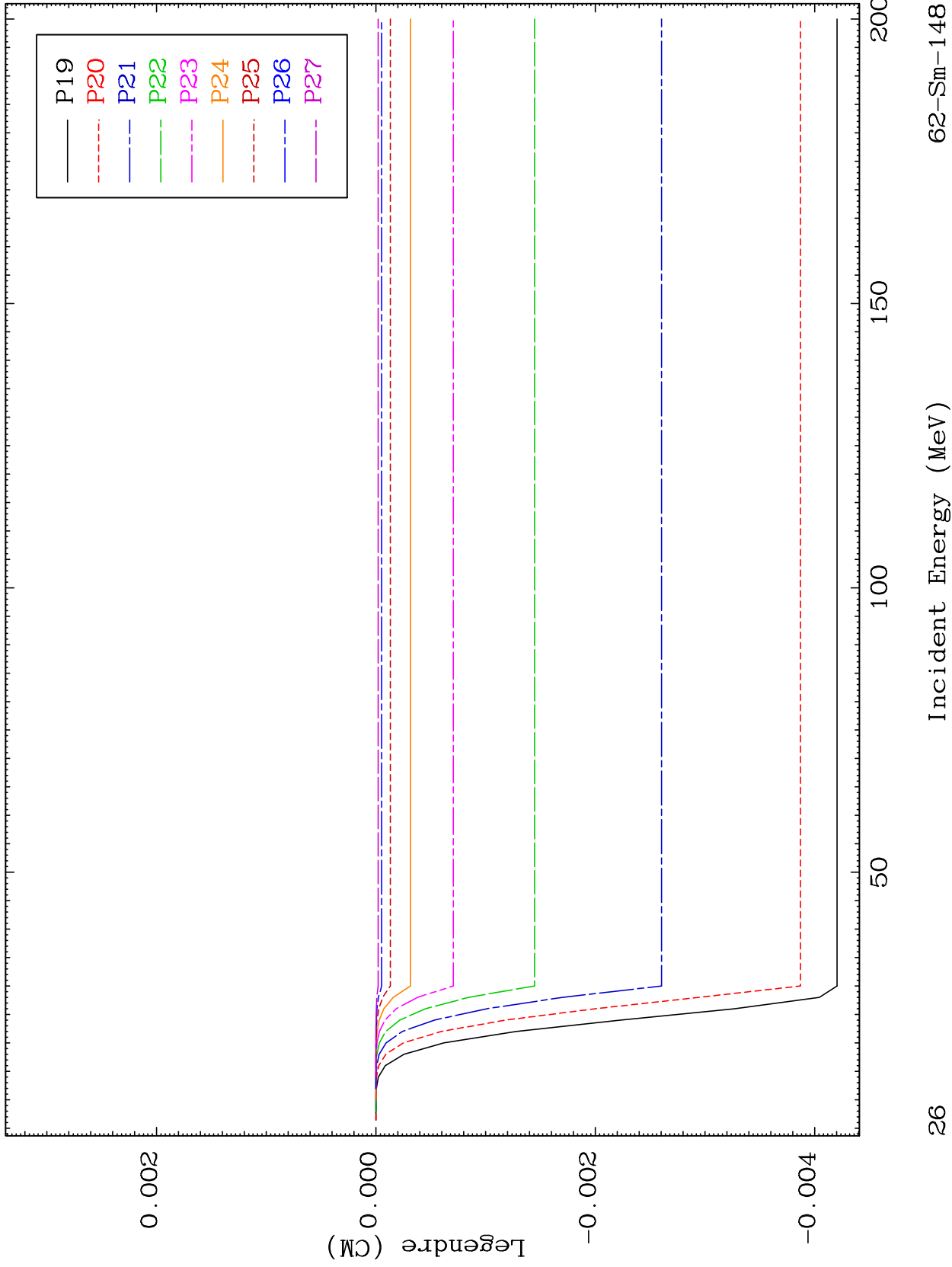
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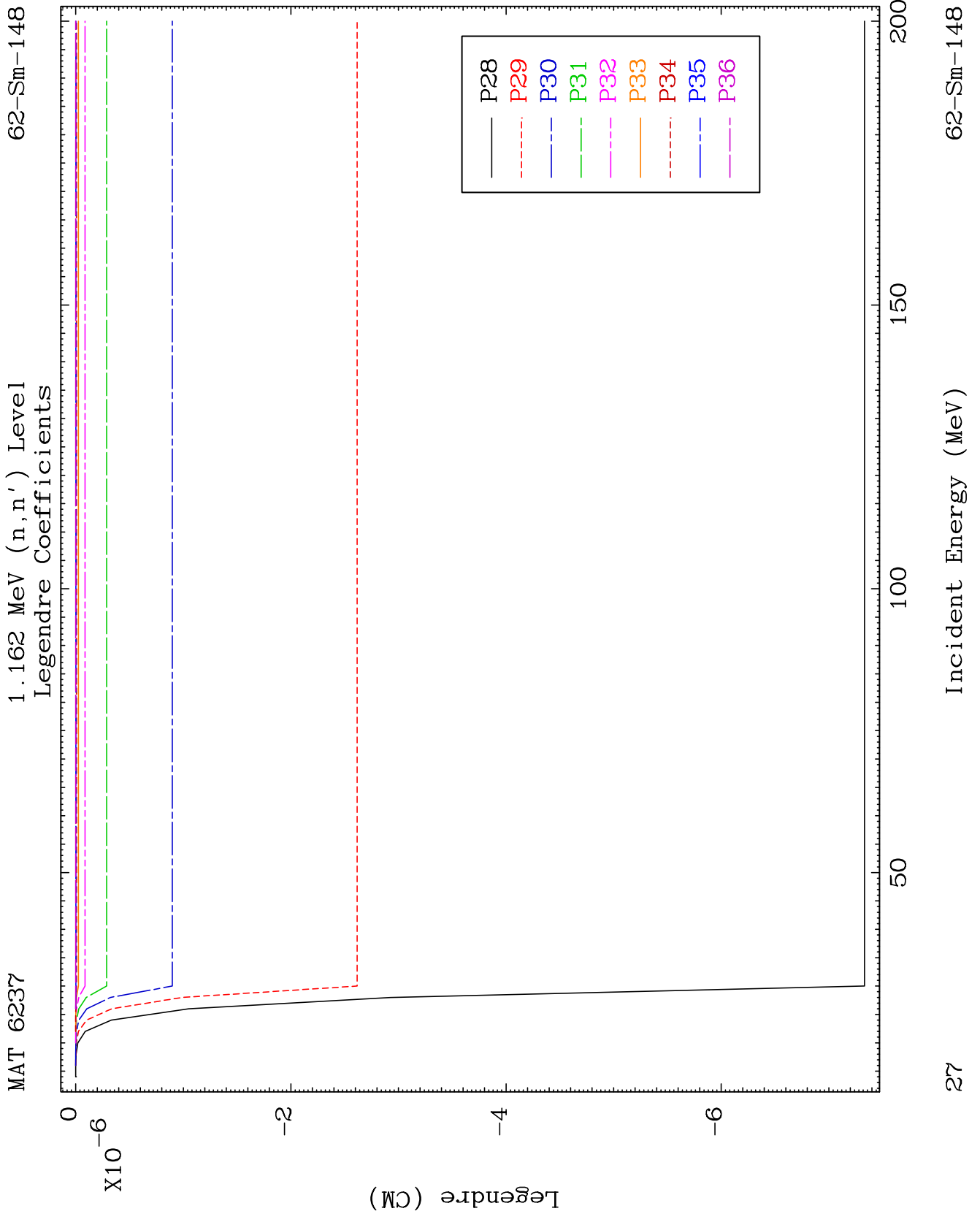


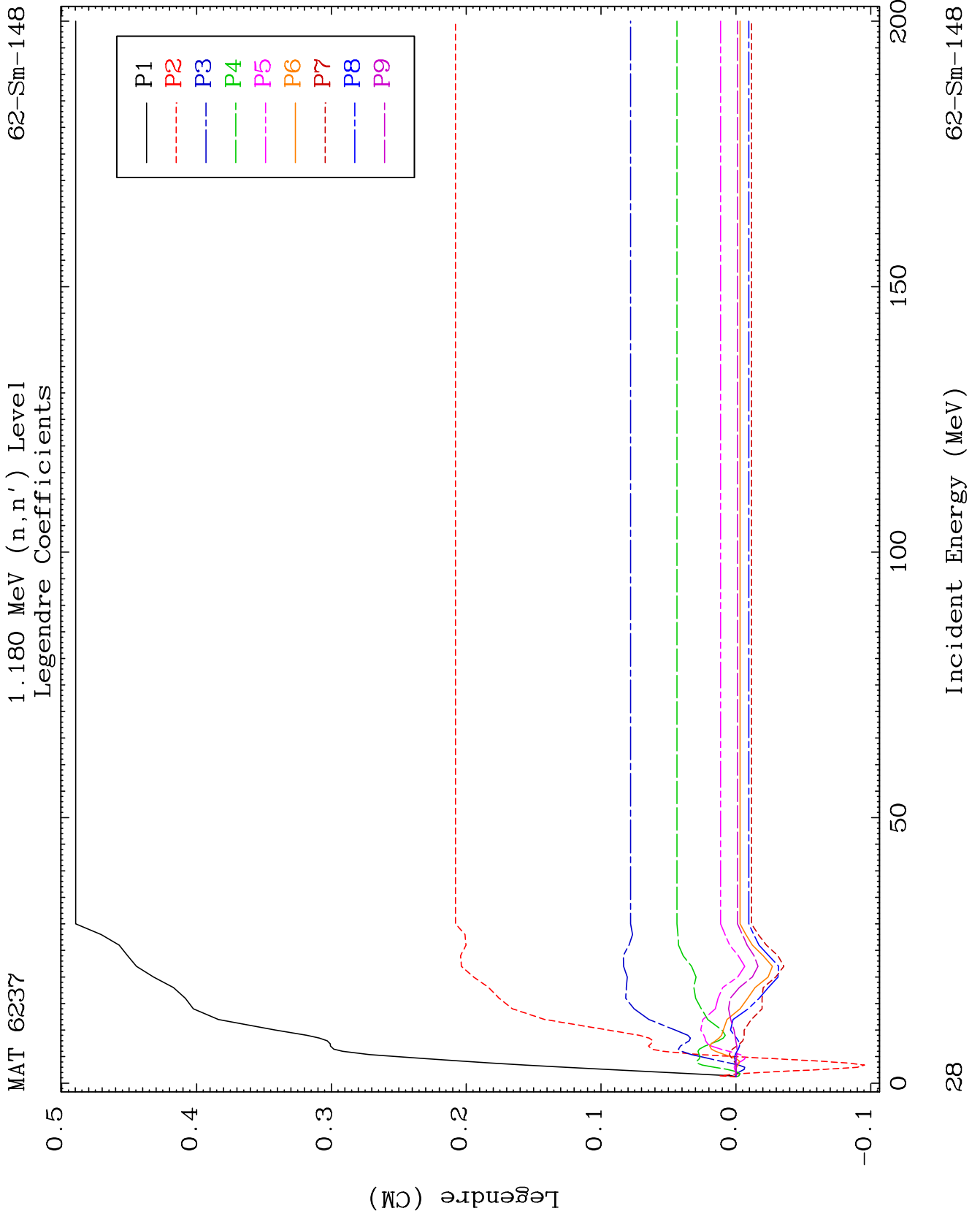
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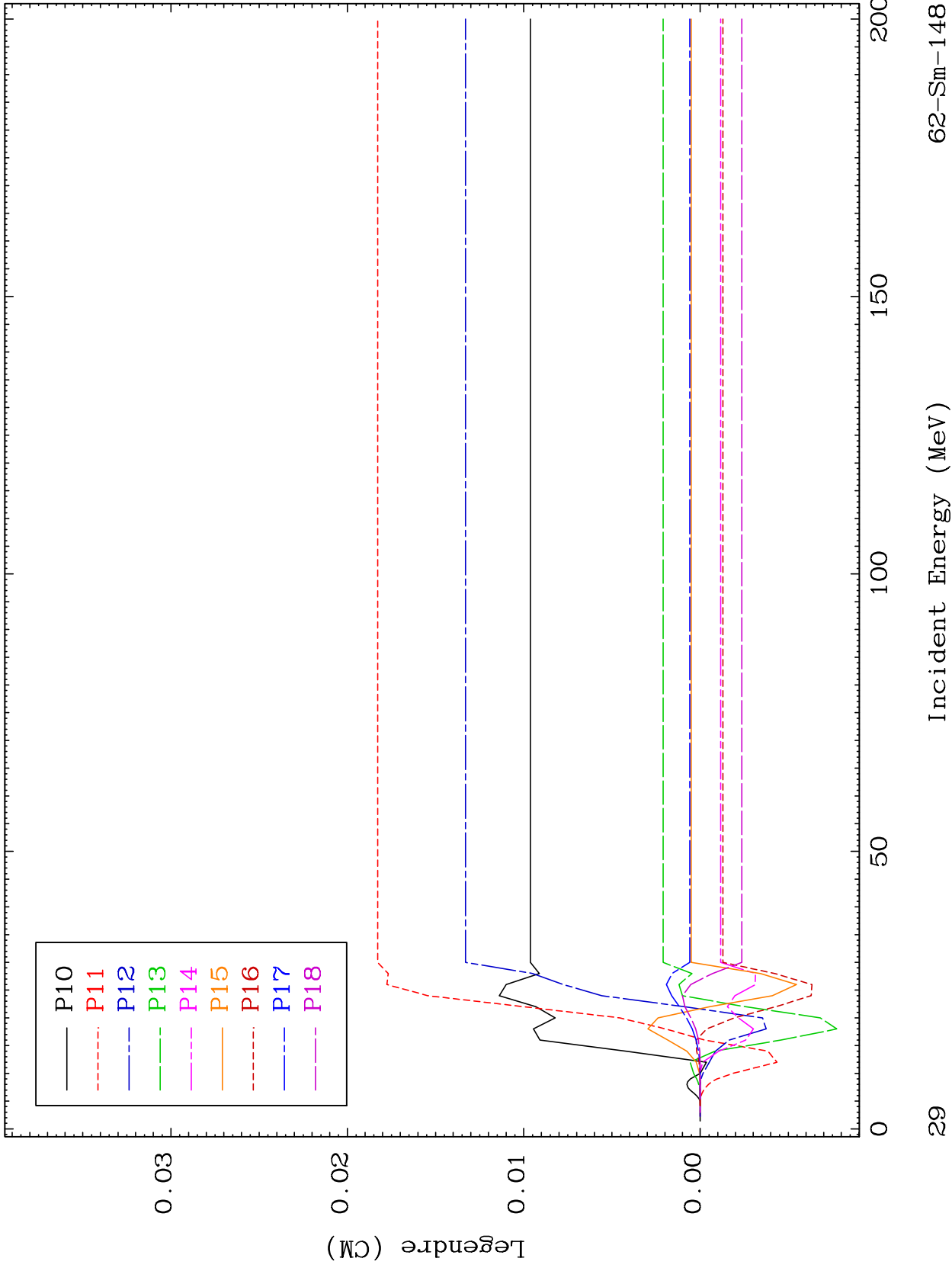
Incident Energy (MeV)

25





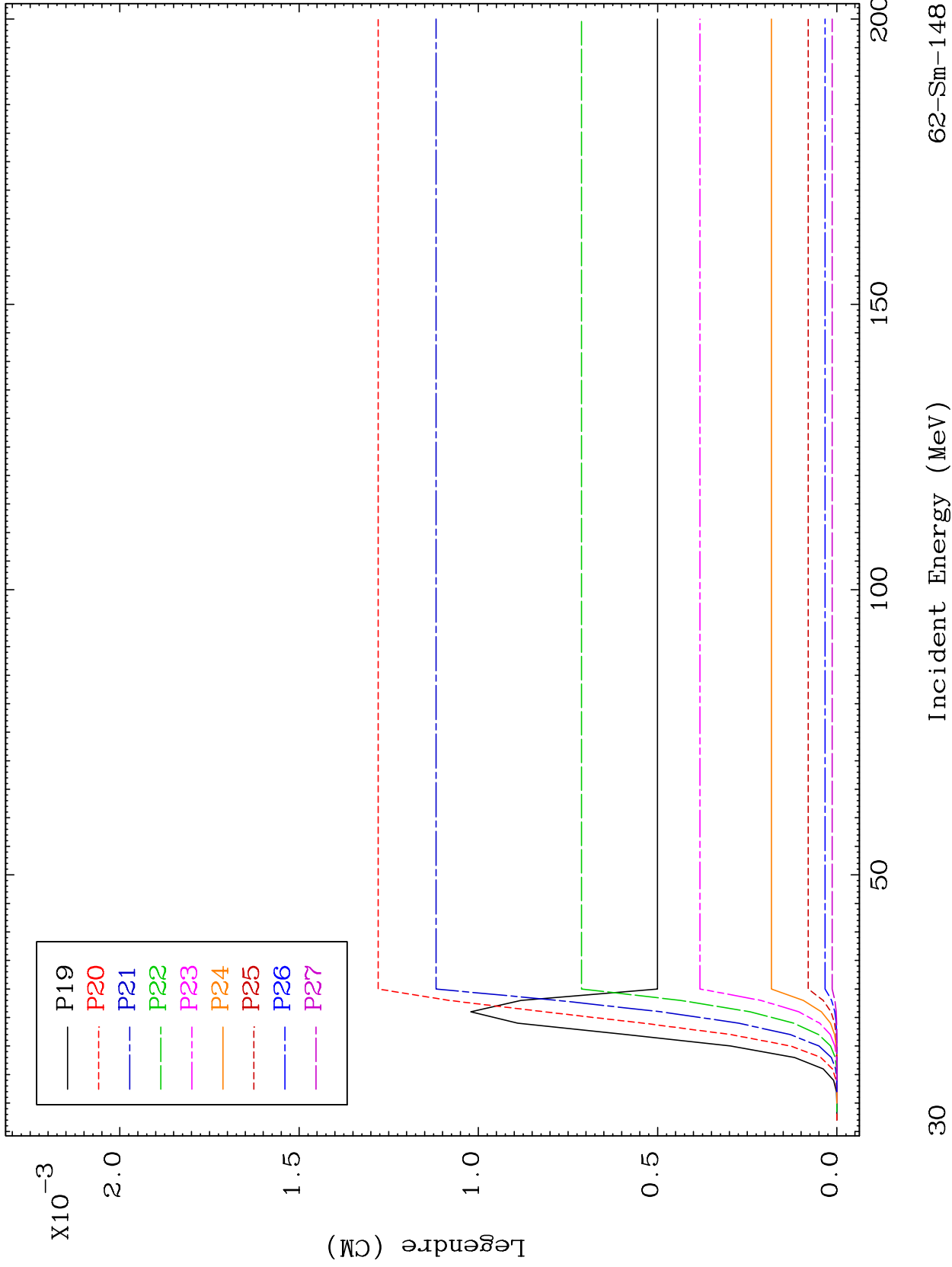




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1.180 MeV (n,n') Level  
Legendre Coefficients

62-Sm-148



30

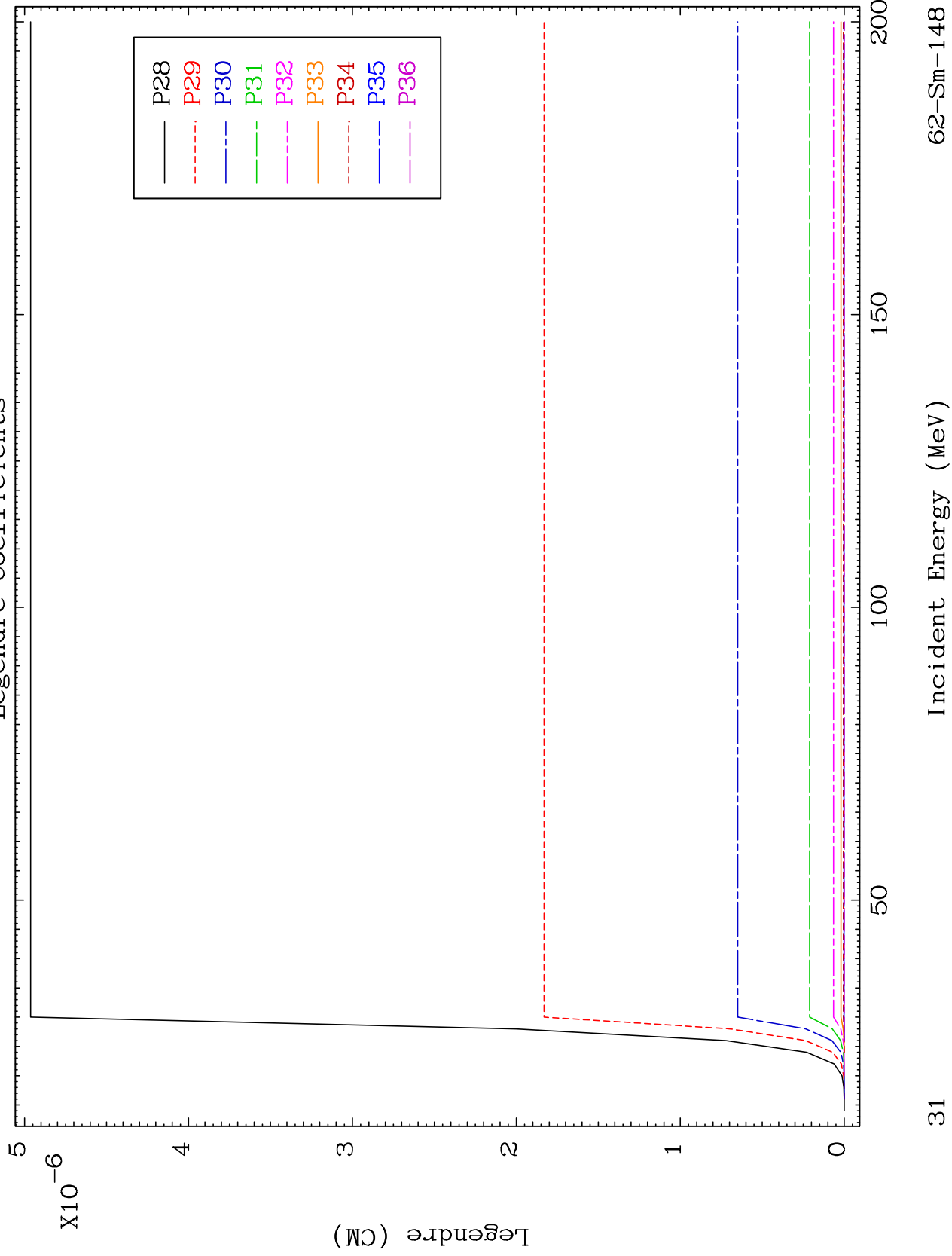
Incident Energy (MeV)

62-Sm-148

MAT 6237

1.180 MeV (n, n') Level  
Legendre Coefficients

62-Sm-148

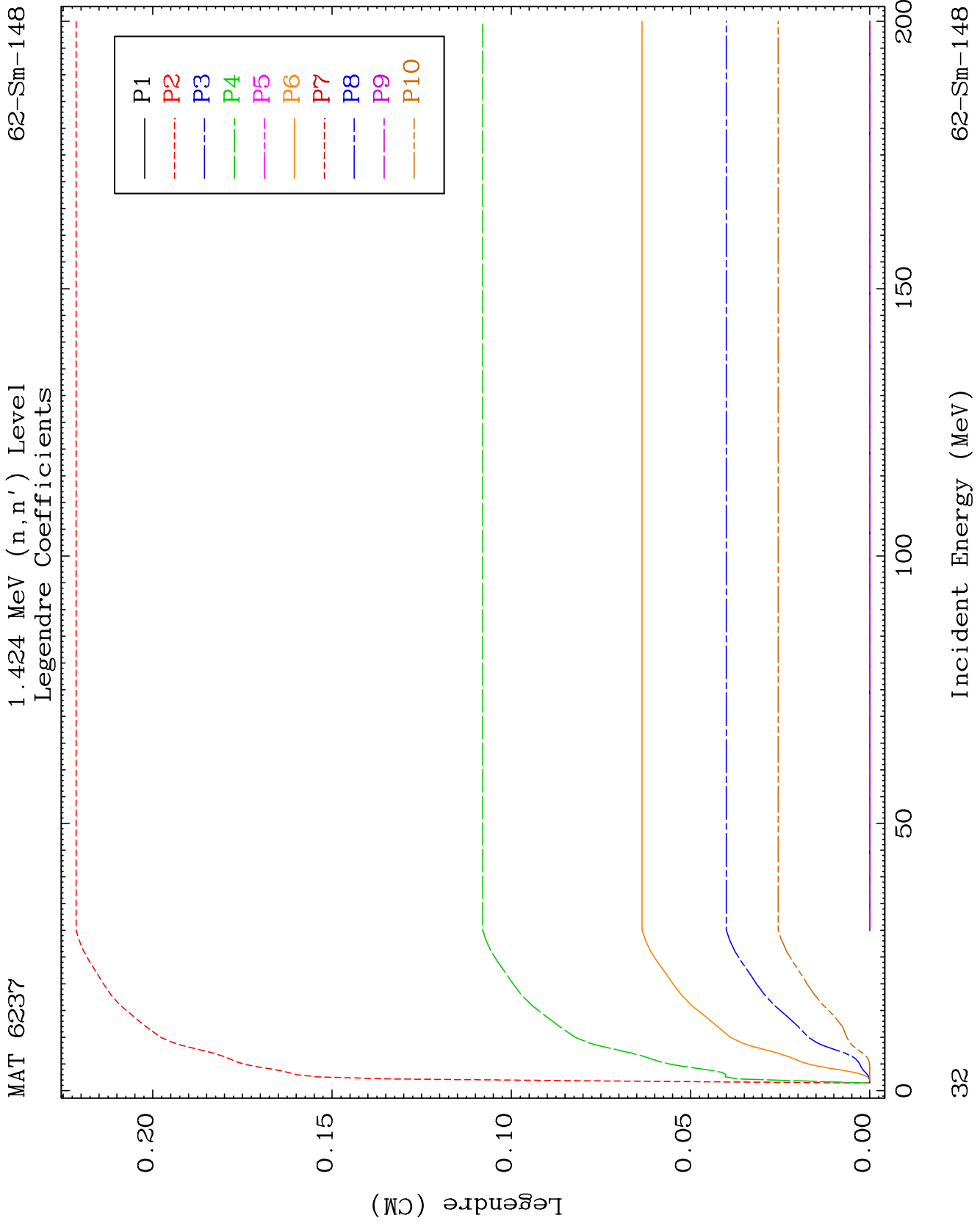


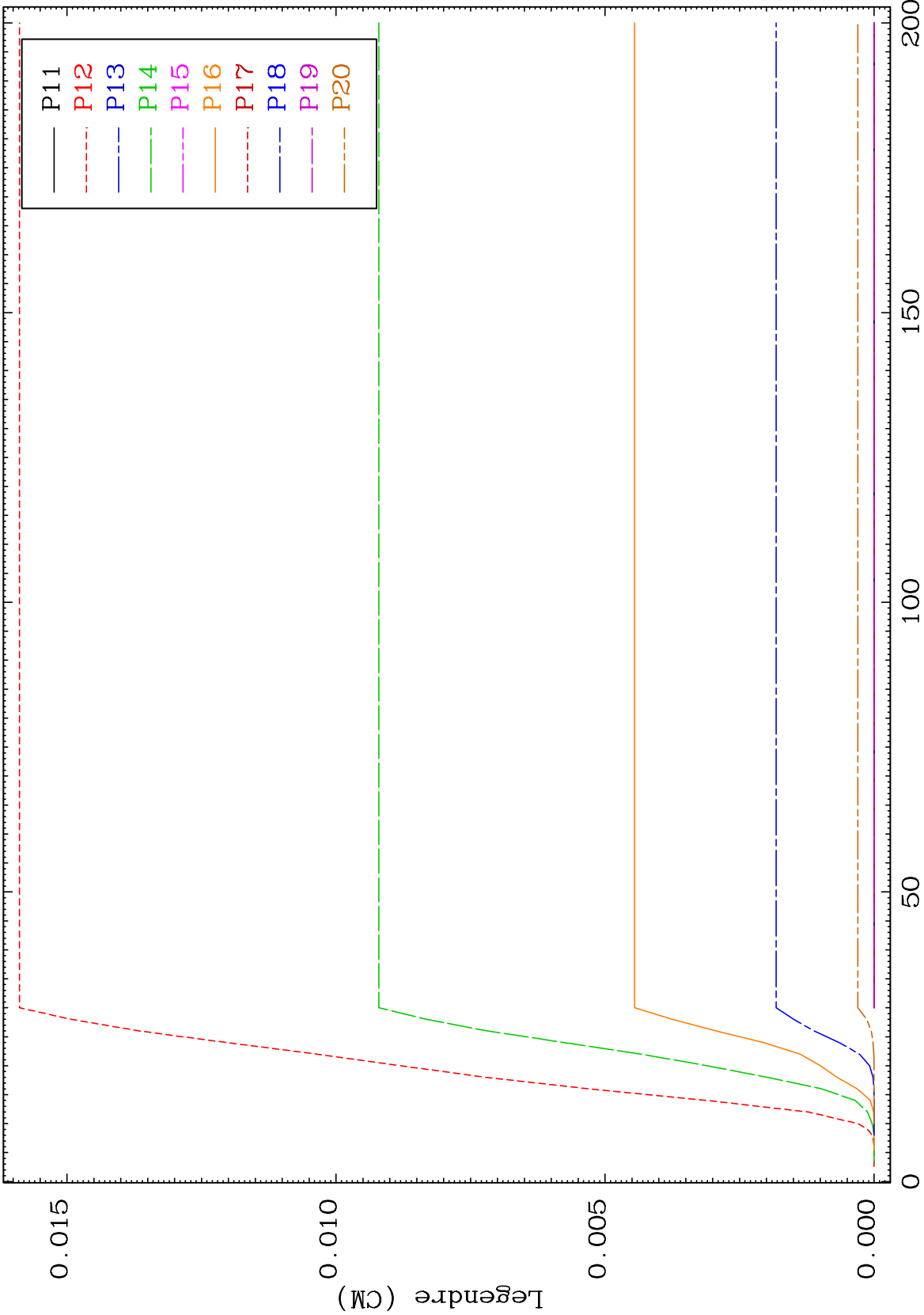
31

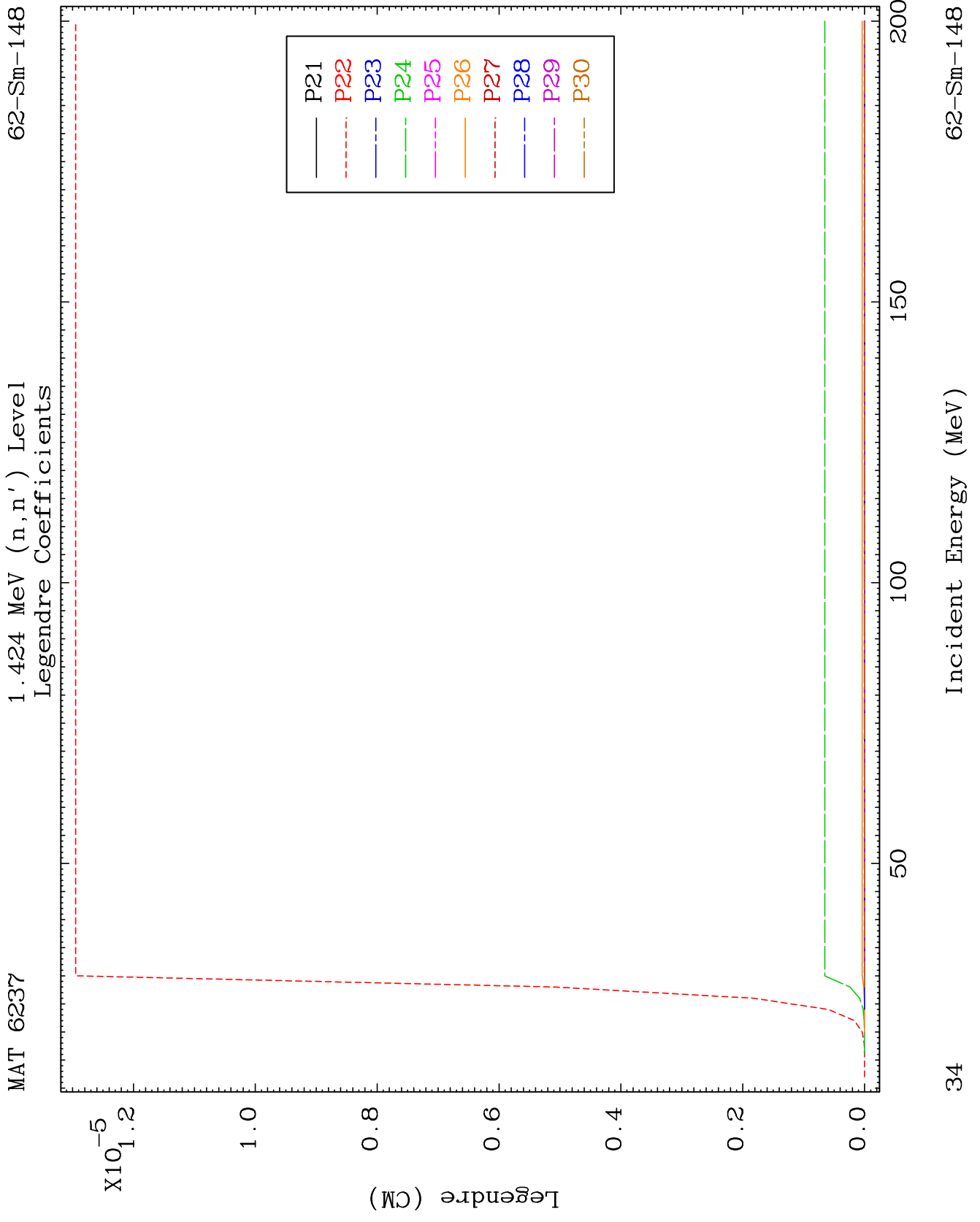
Incident Energy (MeV)

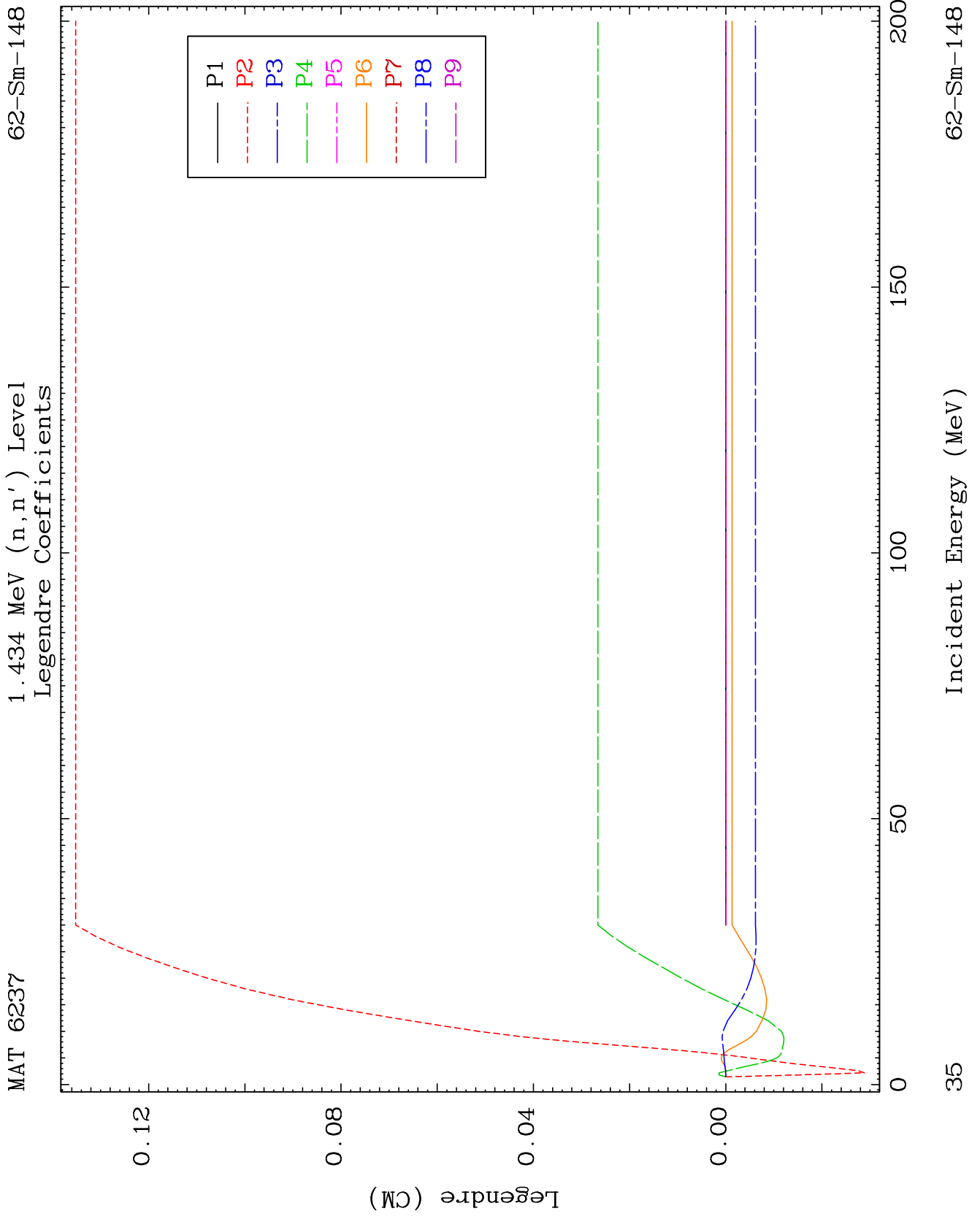
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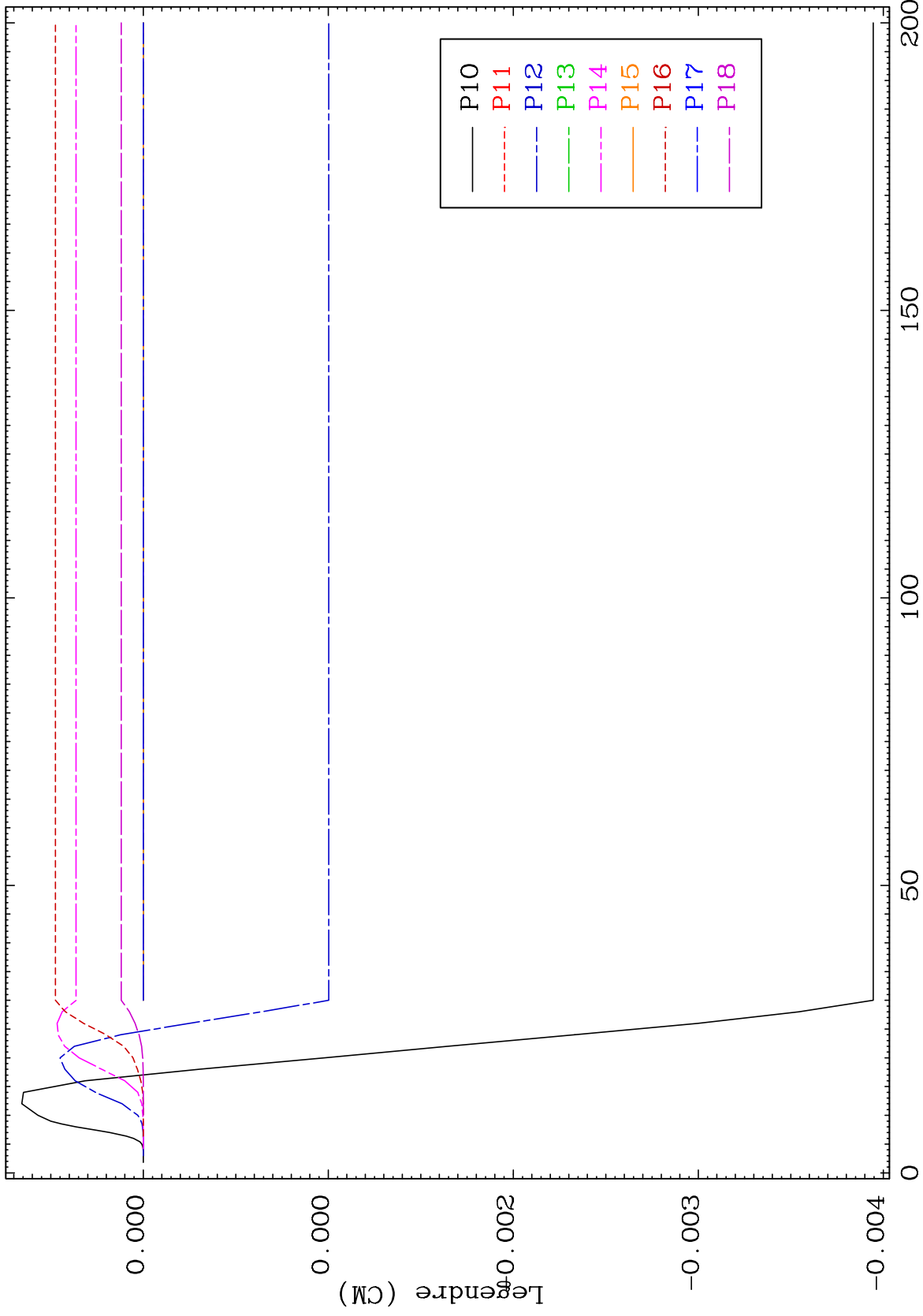




MAT 6237

1.434 MeV (n,n') Level  
Legendre Coefficients

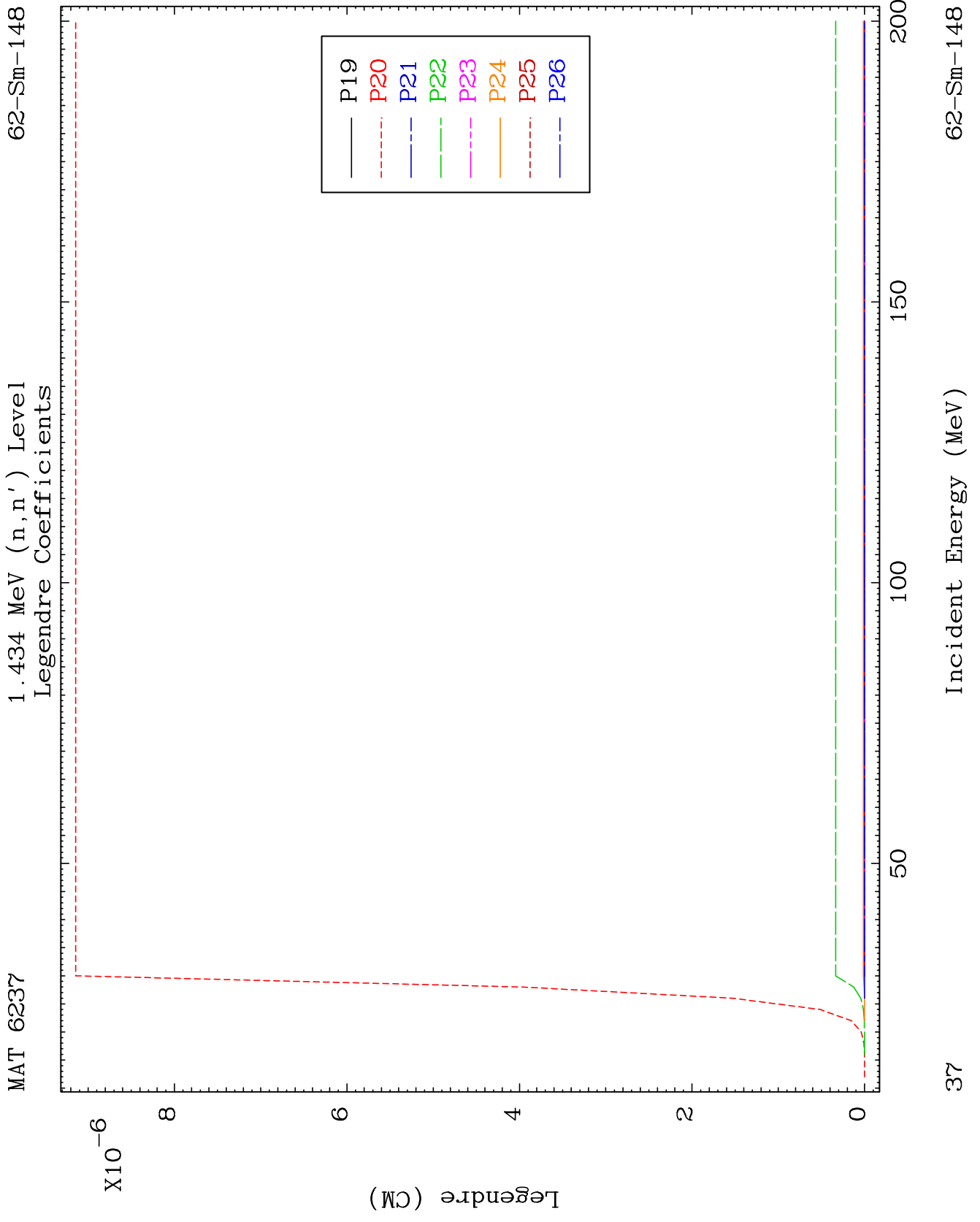
62-Sm-148



36

Incident Energy (MeV)

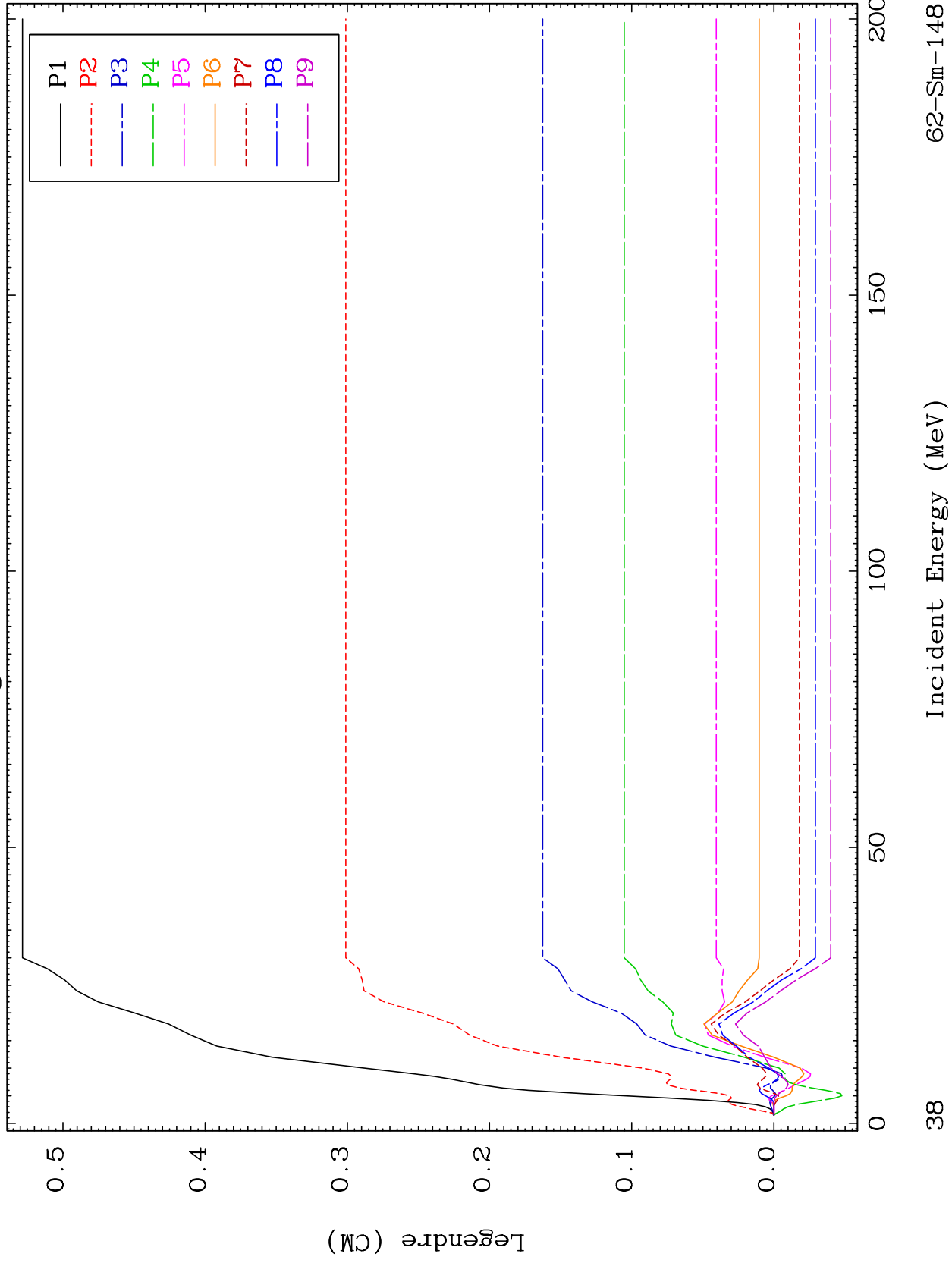
62-Sm-148



MAT 6237

1.454 MeV (n,n') Level  
Legendre Coefficients

62-Sm-148

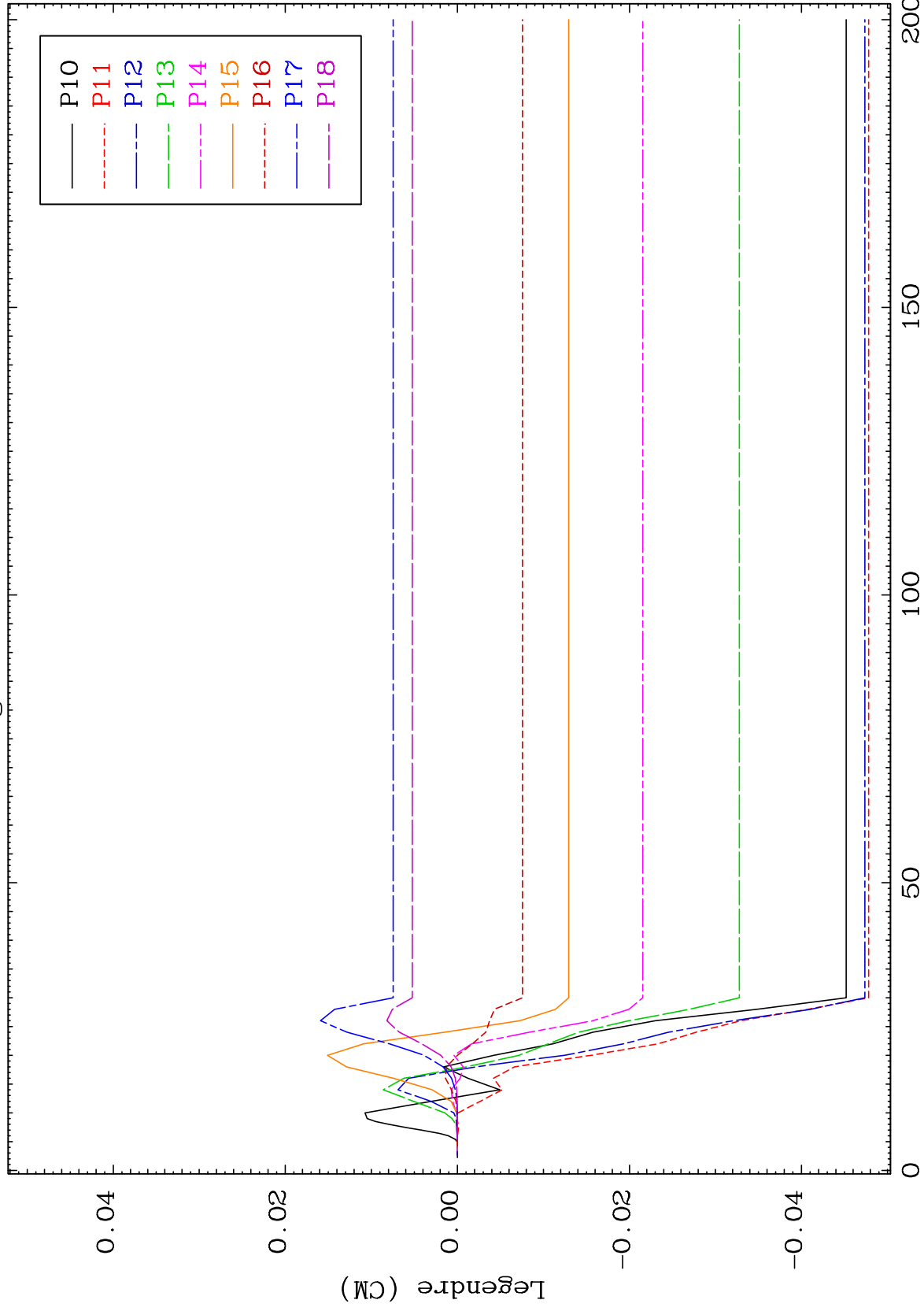


38

MAT 6237

1.454 MeV (n,n') Level  
Legendre Coefficients

62-Sm-148



39

Incident Energy (MeV)

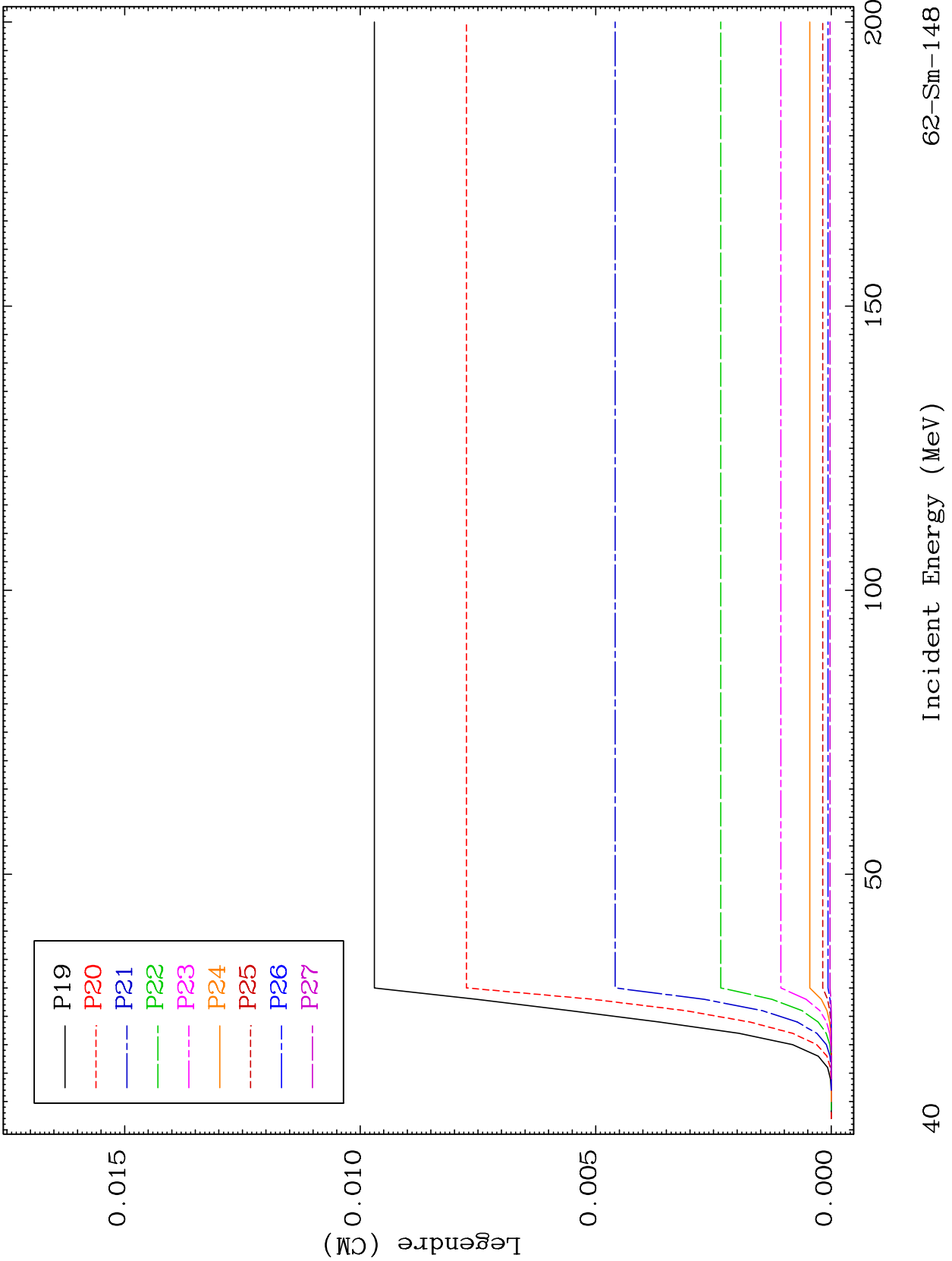
62-Sm-148



MAT 6237

1.454 MeV (n,n') Level  
Legendre Coefficients

62-Sm-148



40

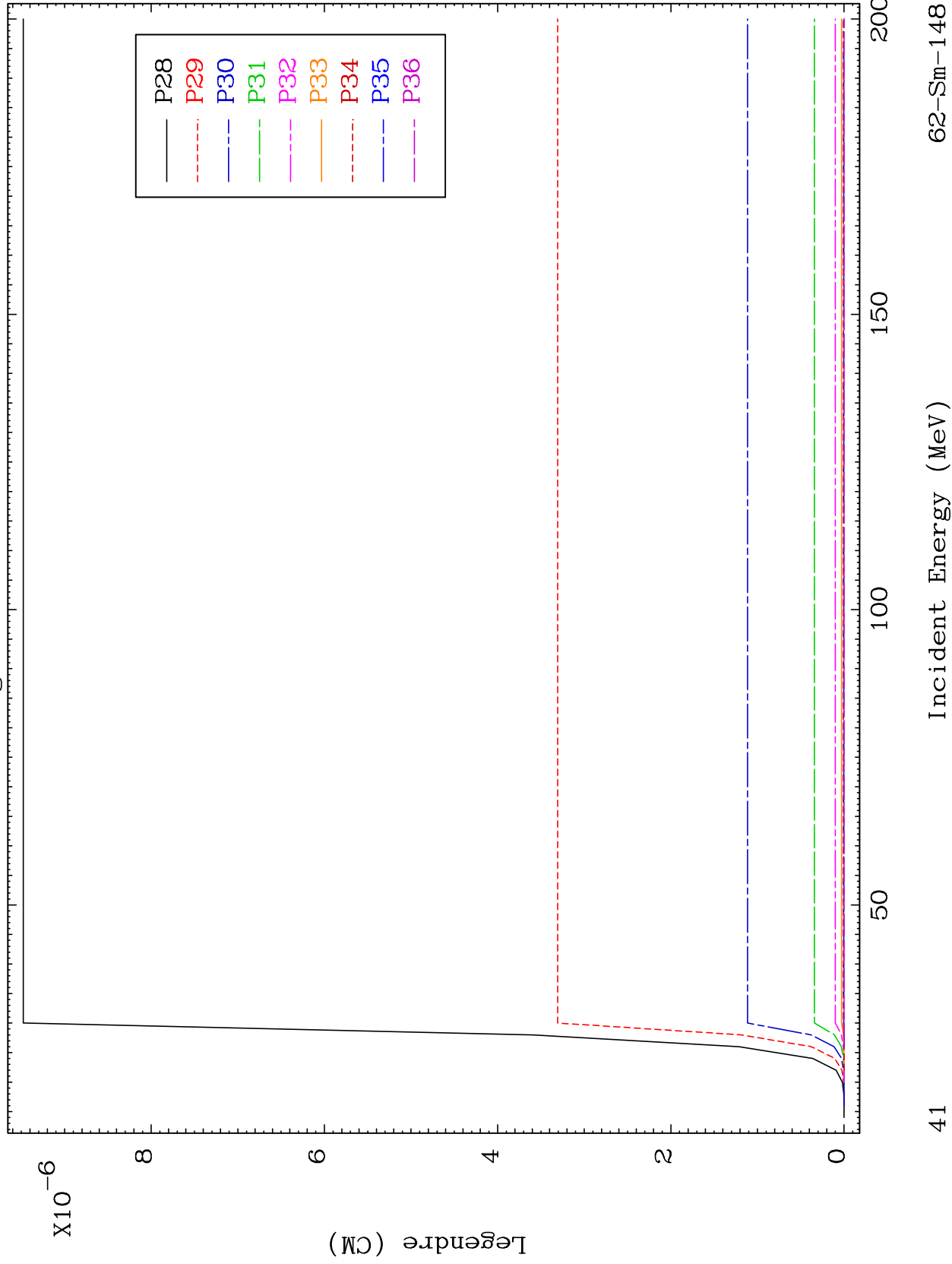
Incident Energy (MeV)

62-Sm-148

MAT 6237

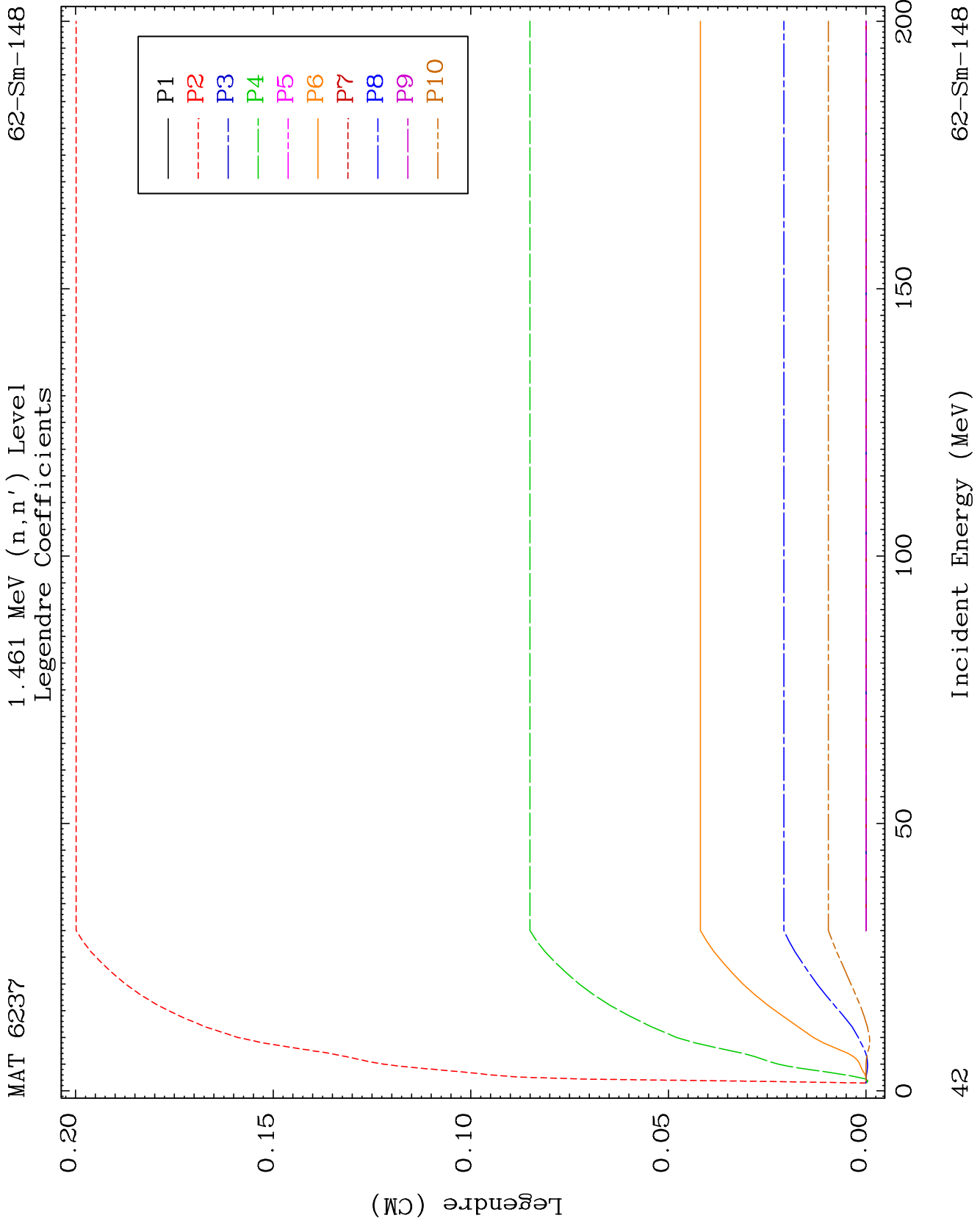
1.454 MeV (n,n') Level  
Legendre Coefficients

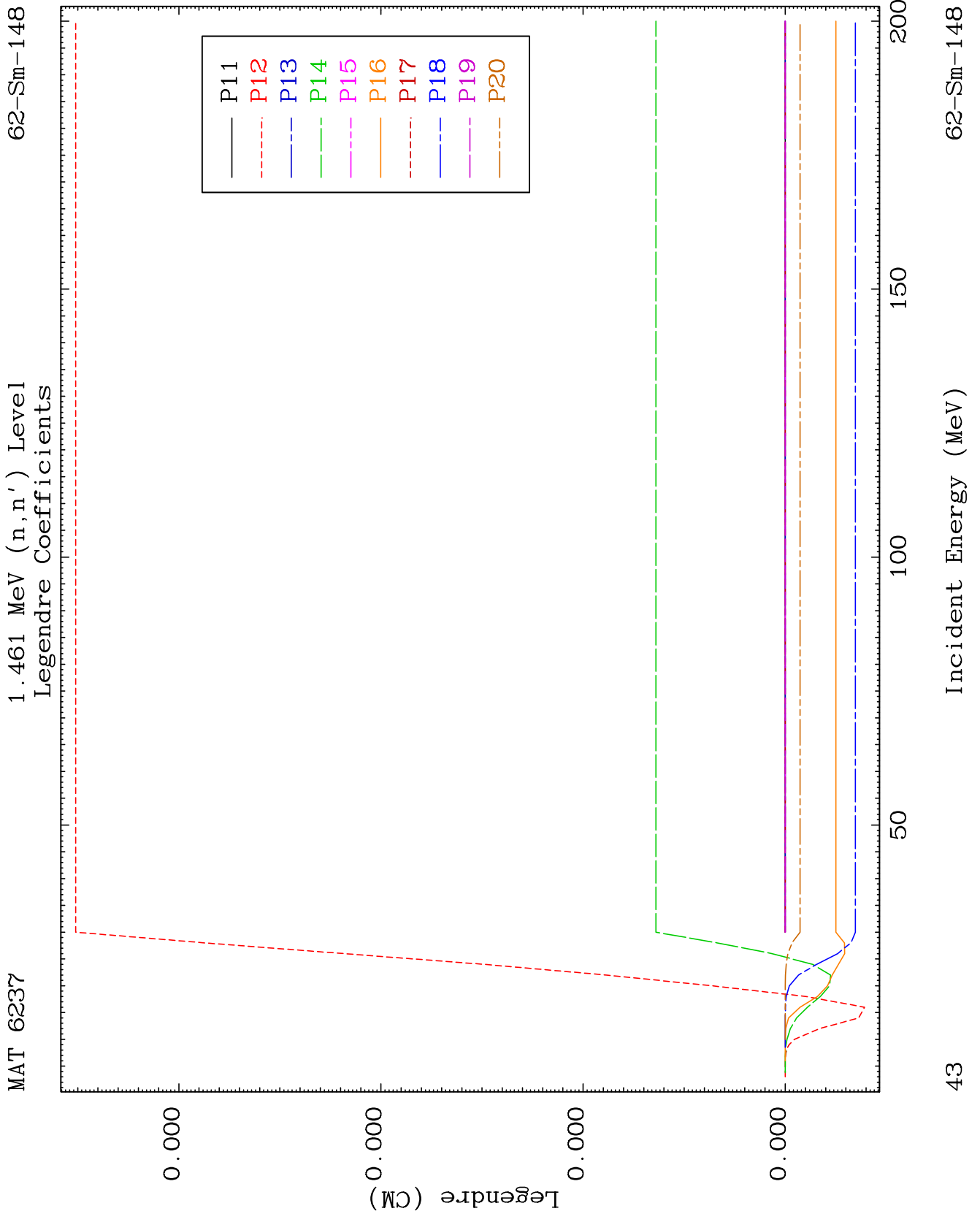
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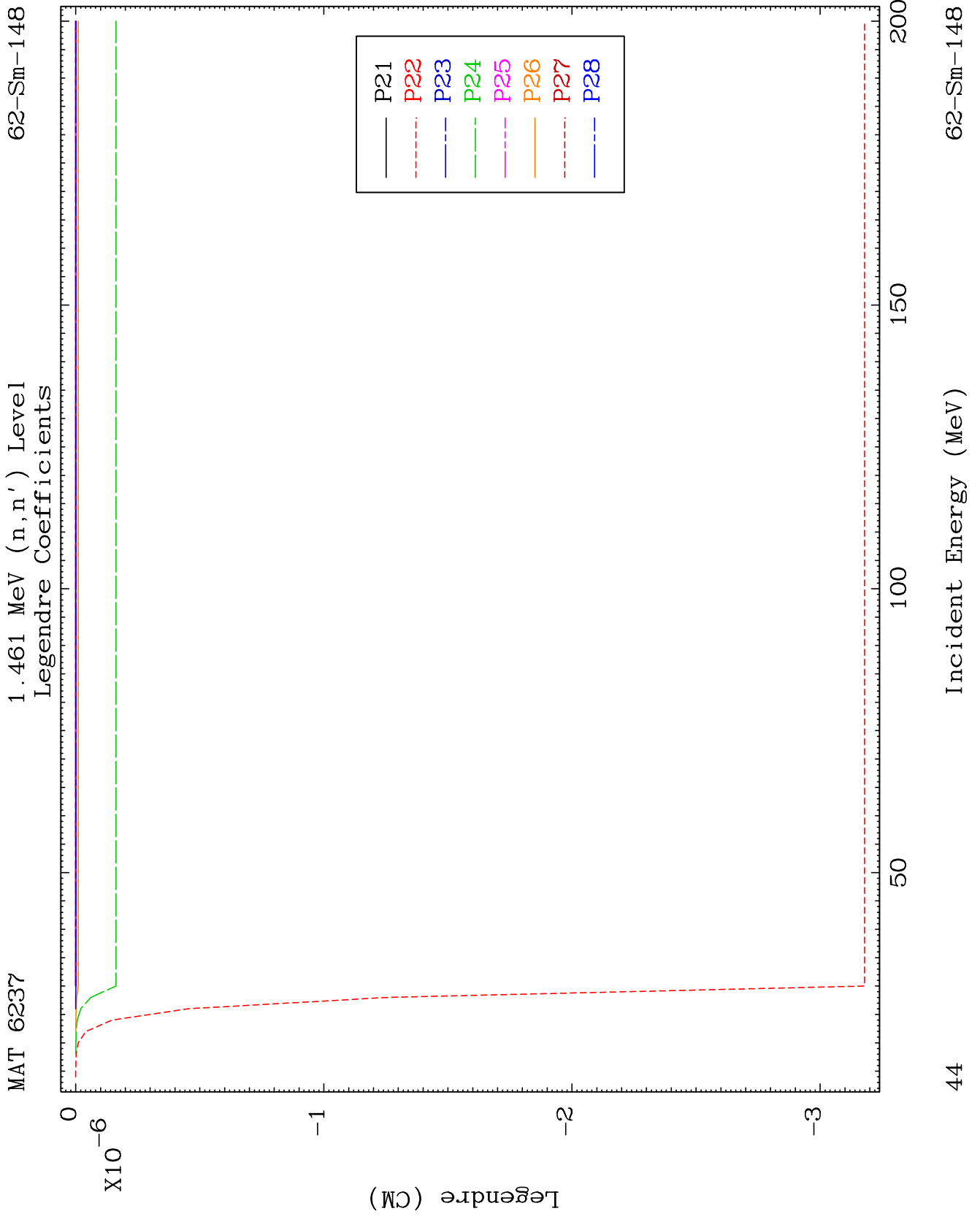


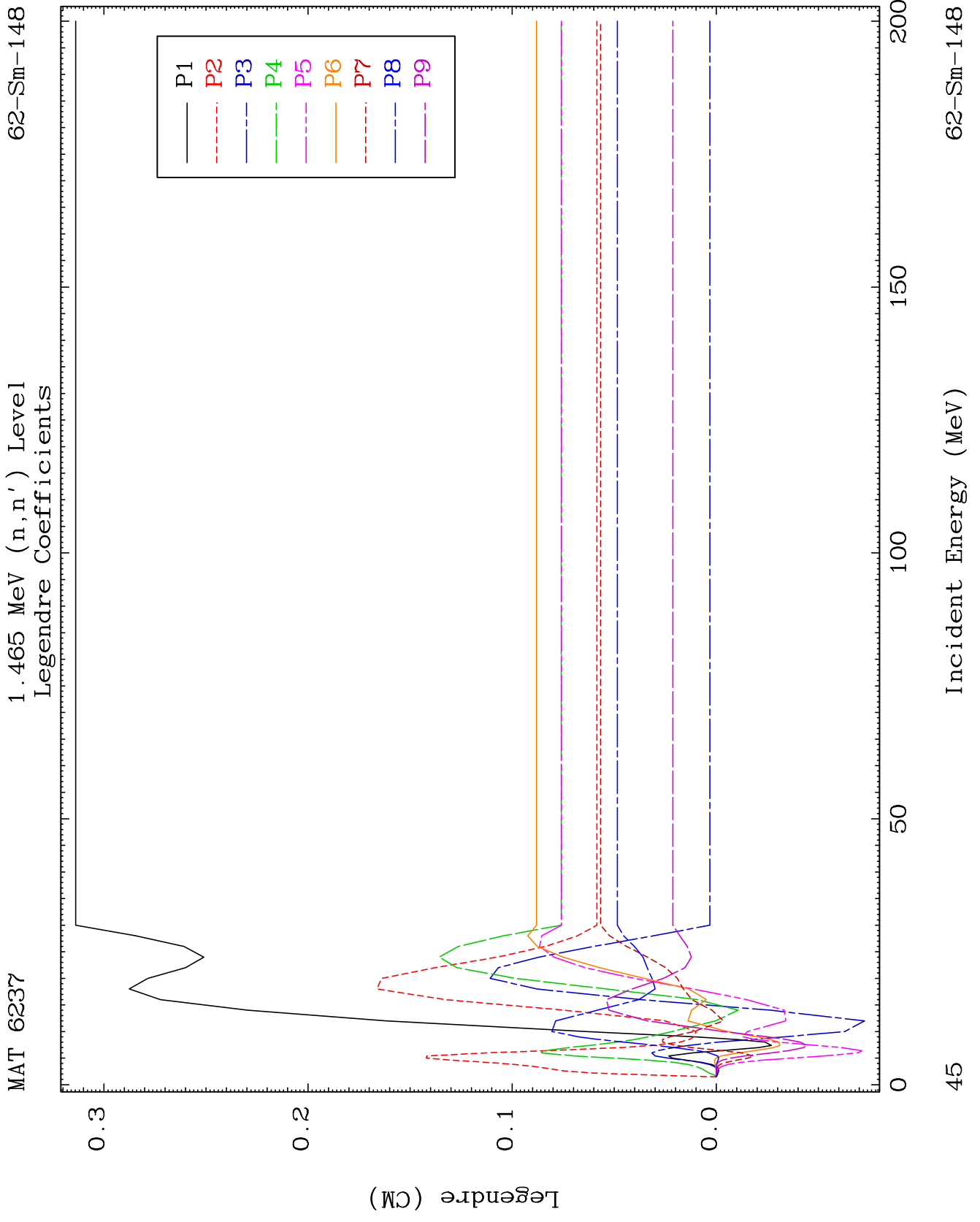
41

62-Sm-148





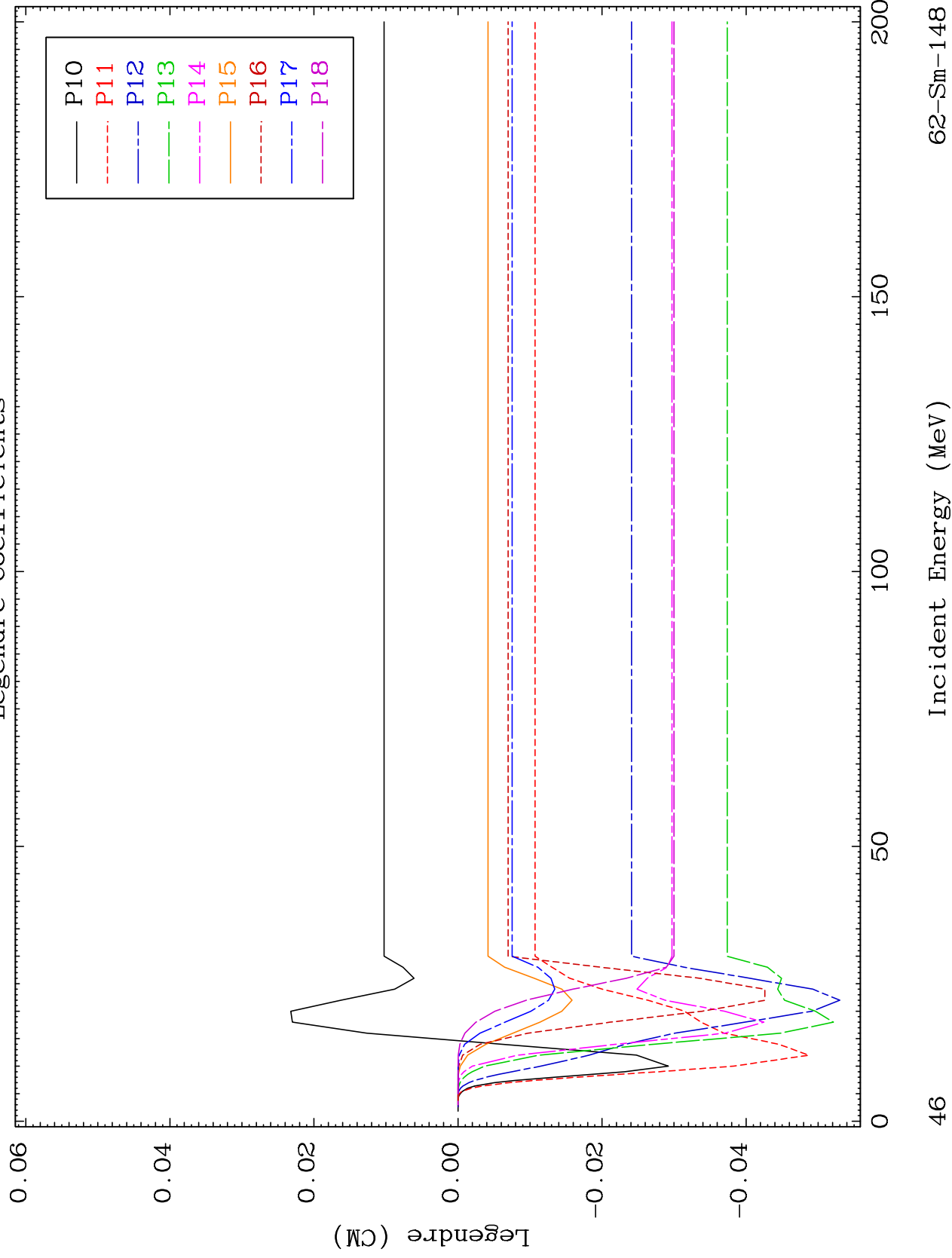




MAT 6237

1.465 MeV (n,n') Level  
Legendre Coefficients

62-Sm-148



46

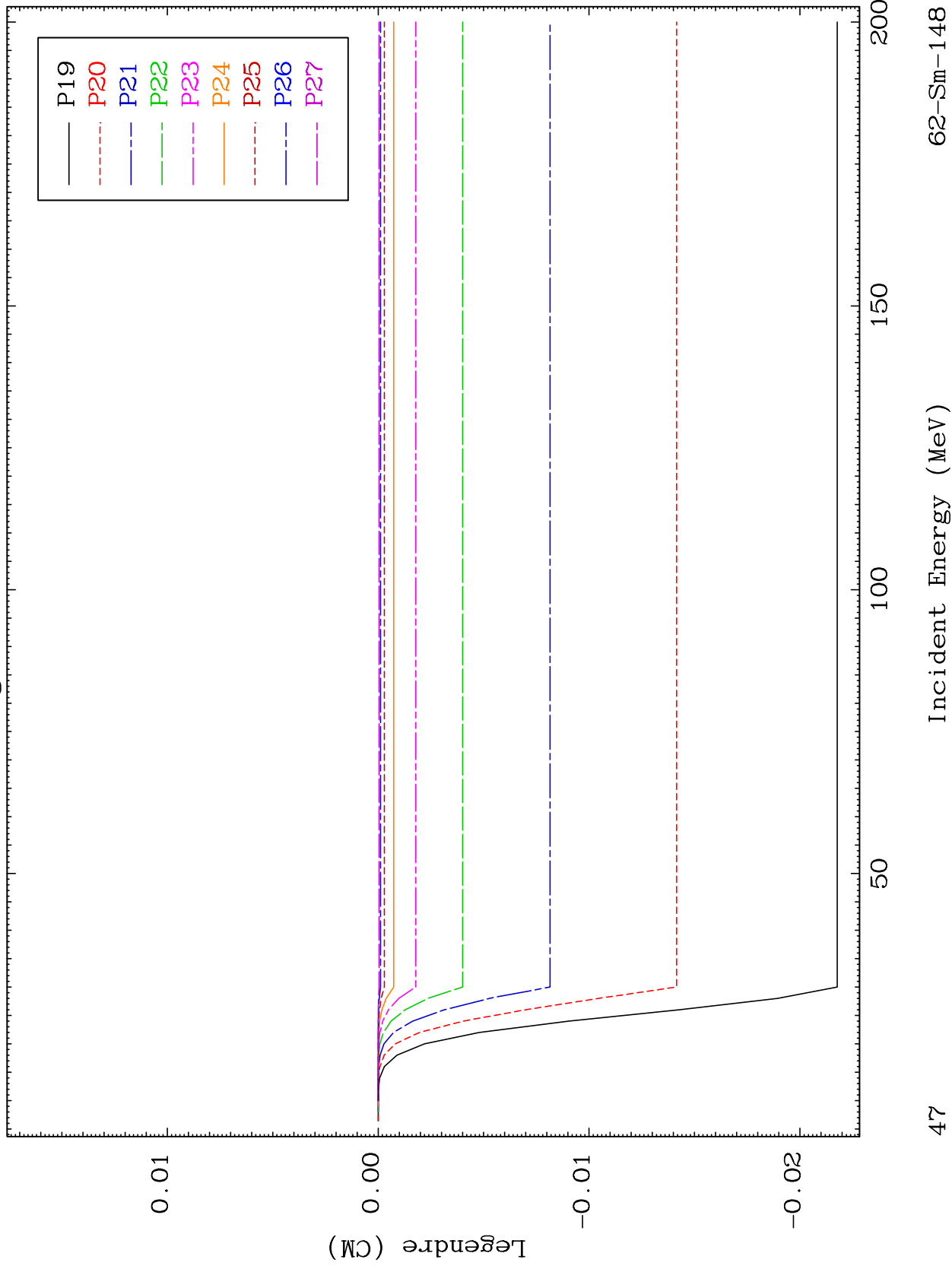
Incident Energy (MeV)

62-Sm-148

MAT 6237

1.465 MeV (n,n') Level  
Legendre Coefficients

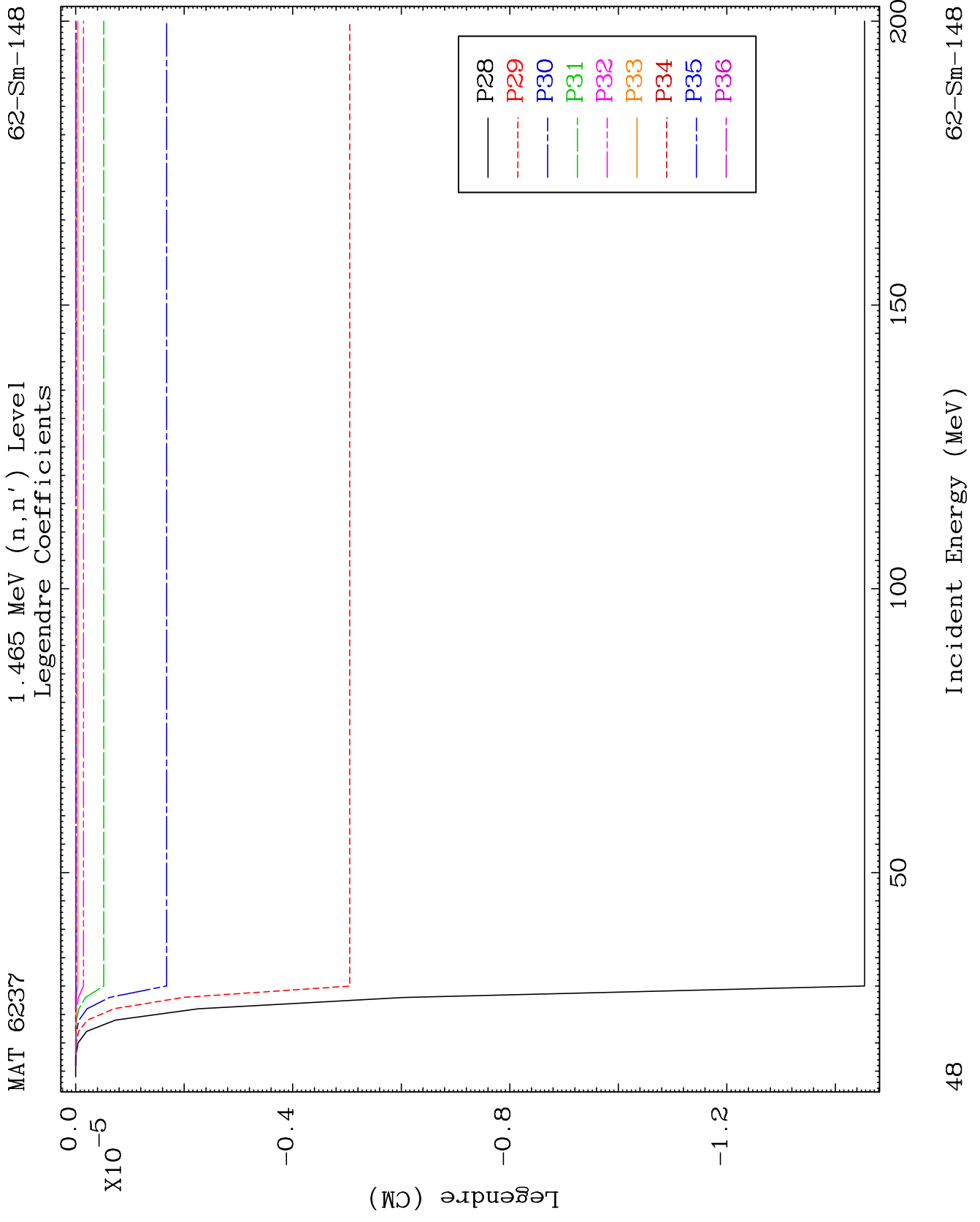
62-Sm-148



47

62-Sm-148

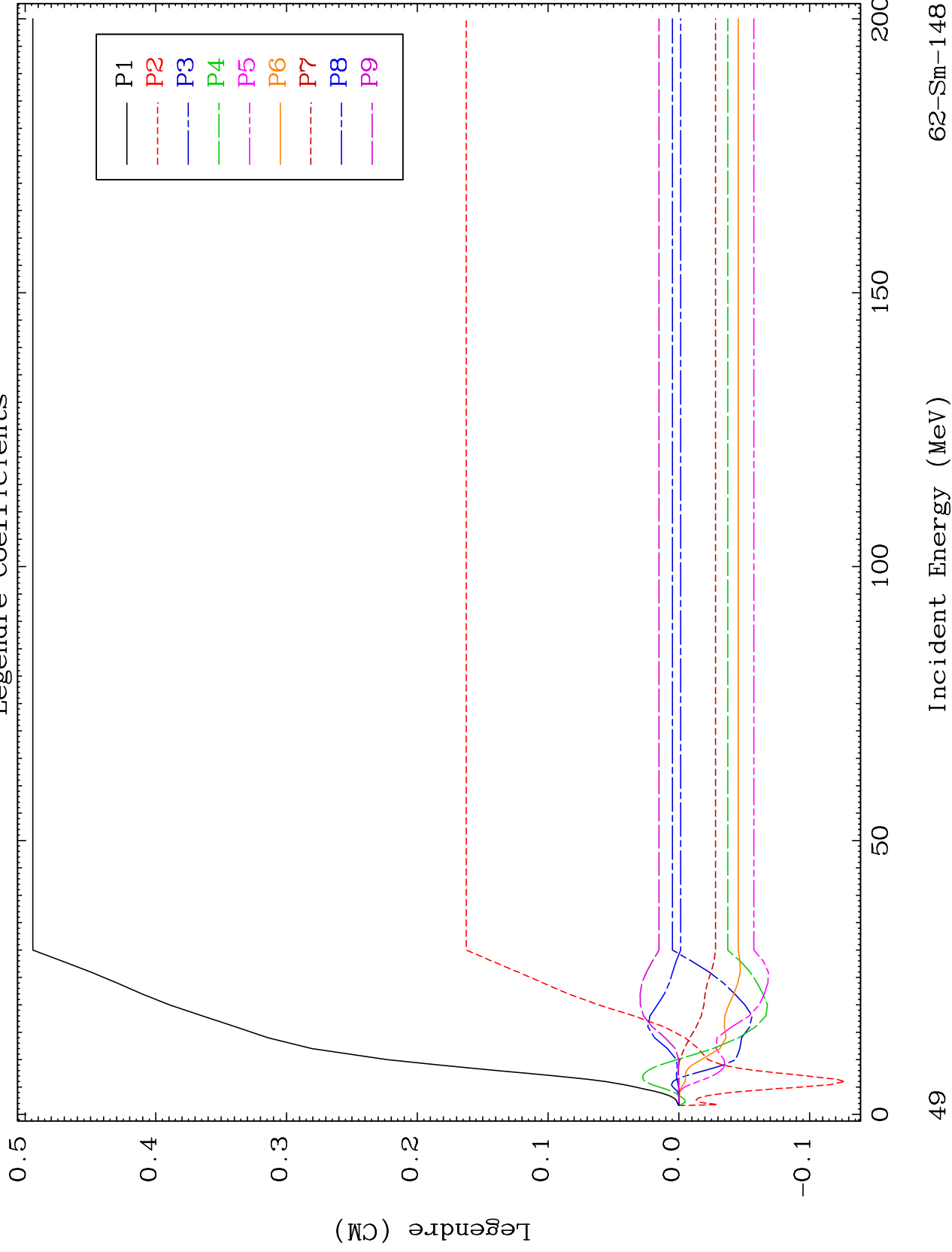




MAT 6237

1.594 MeV (n,n') Level  
Legendre Coefficients

62-Sm-148



62-Sm-148

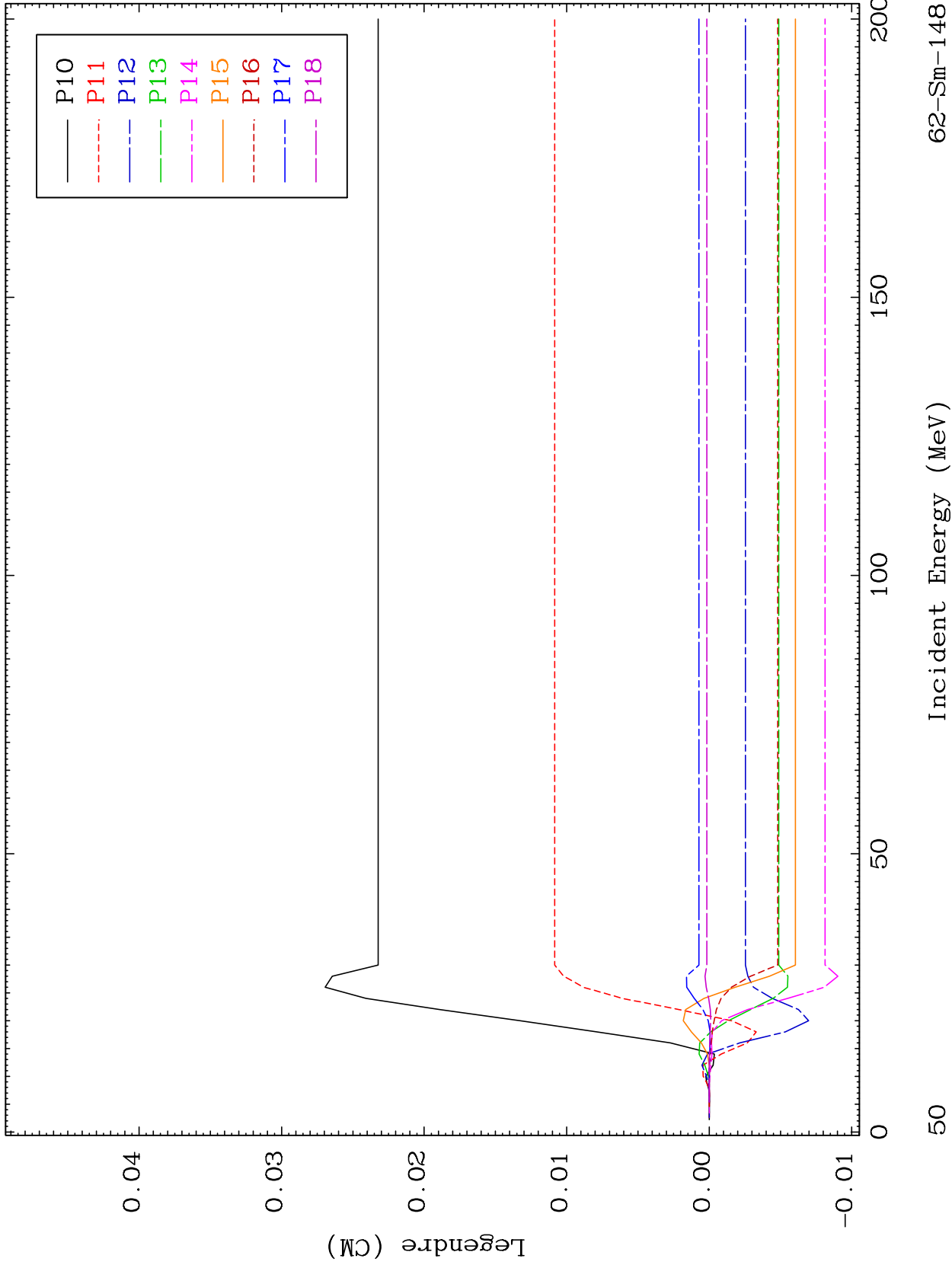
Incident Energy (MeV)

49

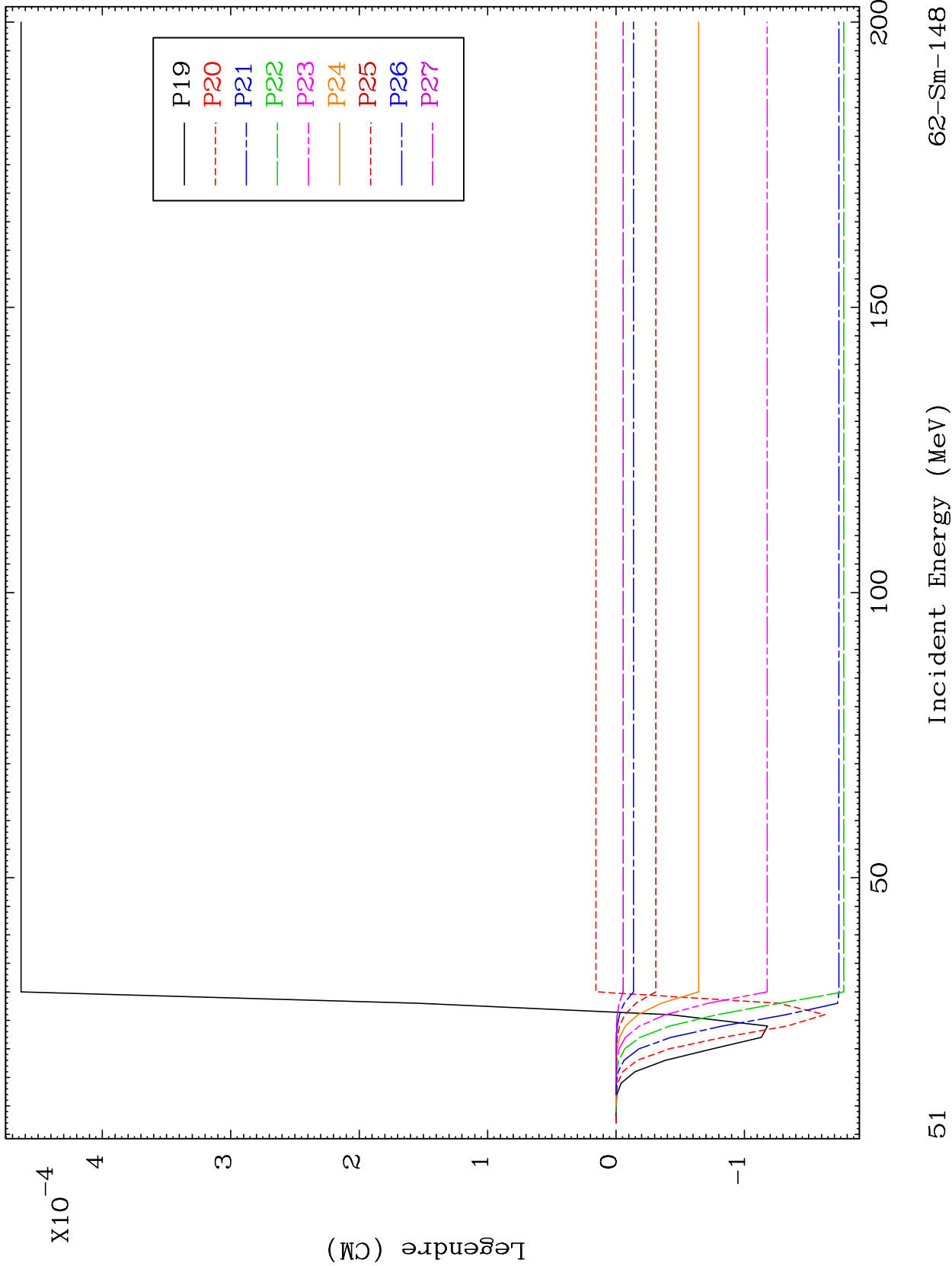
MAT 6237

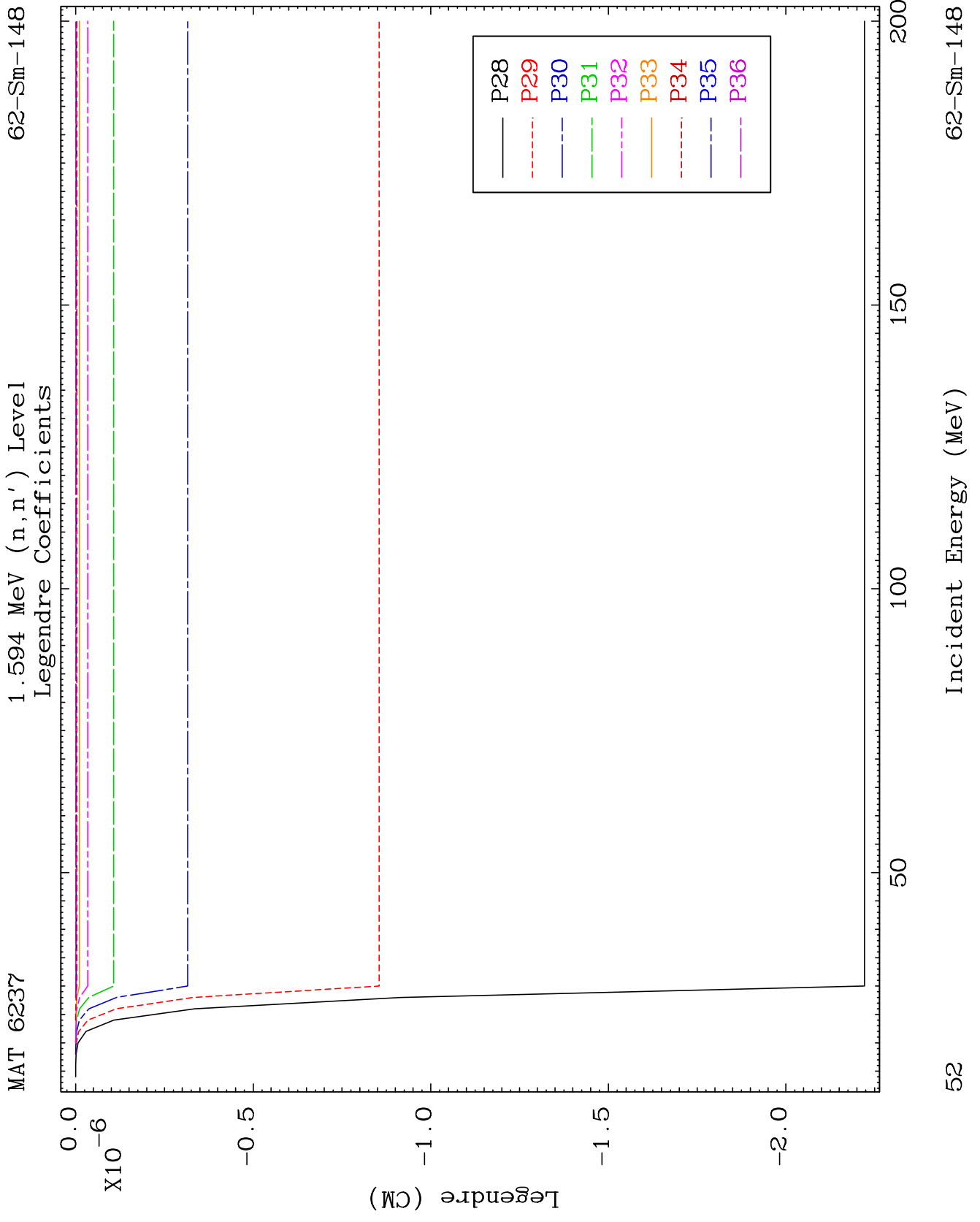
1.594 MeV (n,n') Level  
Legendre Coefficients

62-Sm-148



62-Sm-148

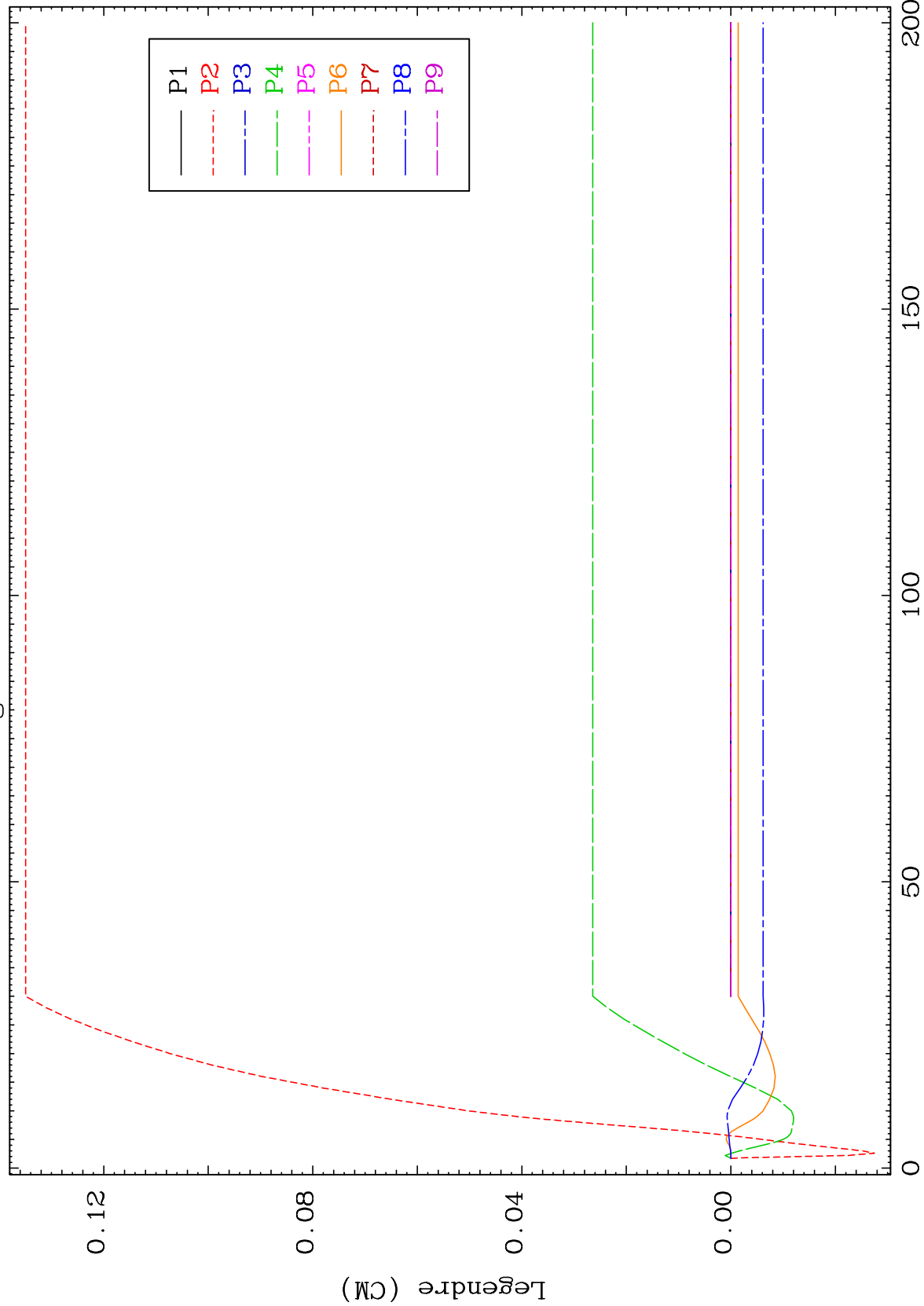




MAT 6237

1.659 MeV (n,n') Level  
Legendre Coefficients

62-Sm-148



62-Sm-148

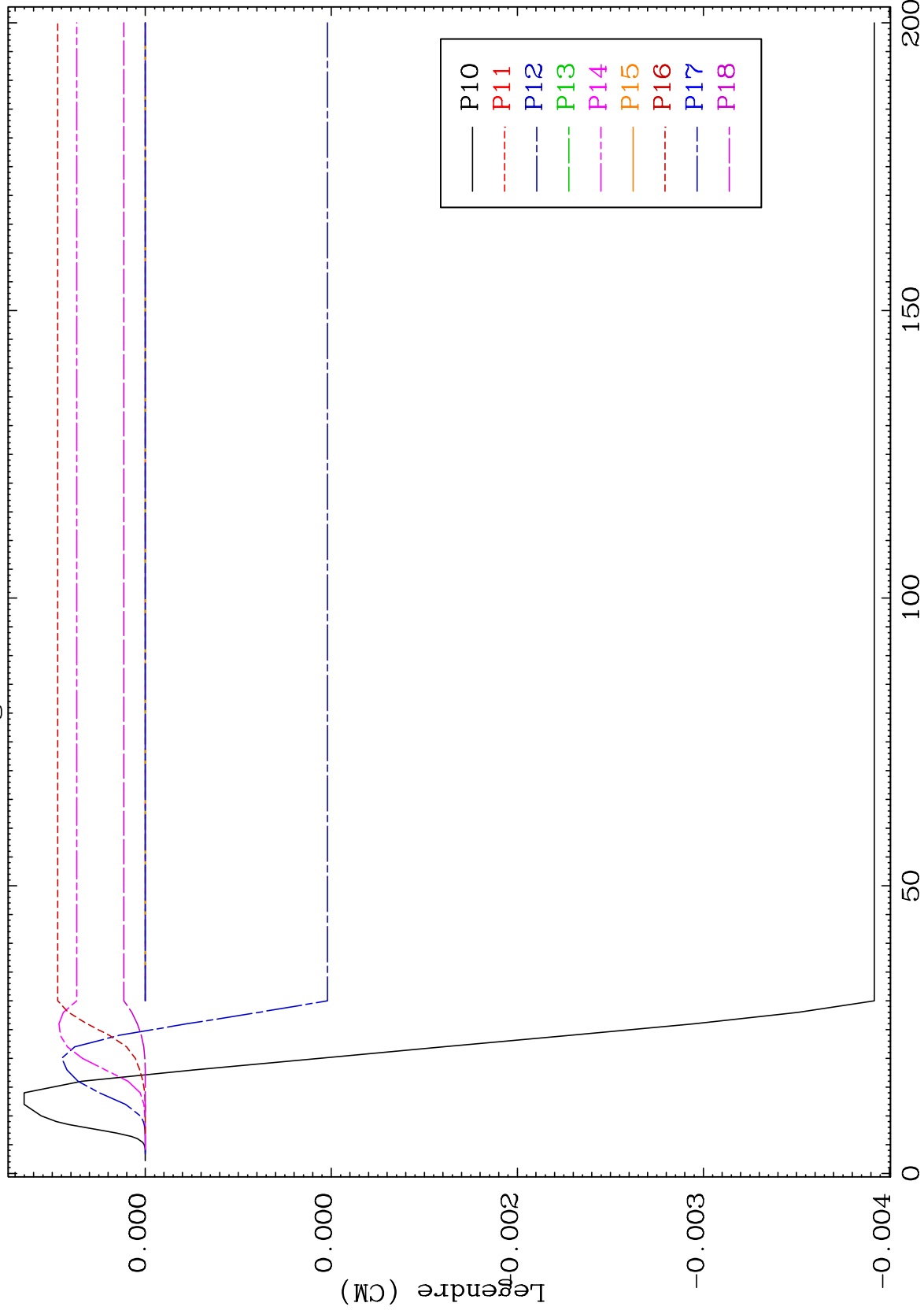
Incident Energy (MeV)

53

MAT 6237

1.659 MeV (n,n') Level  
Legendre Coefficients

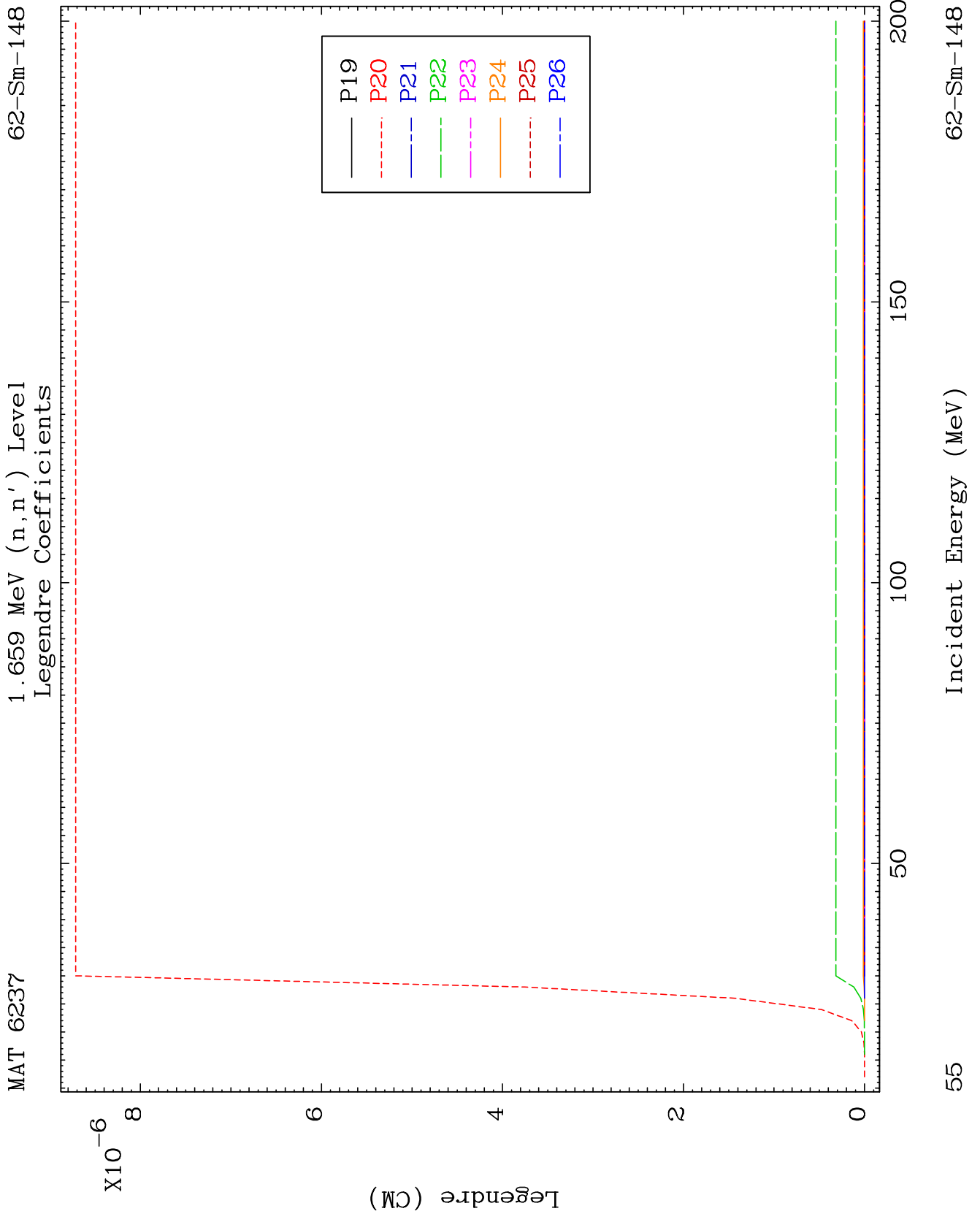
62-Sm-148



54

Incident Energy (MeV)

62-Sm-148

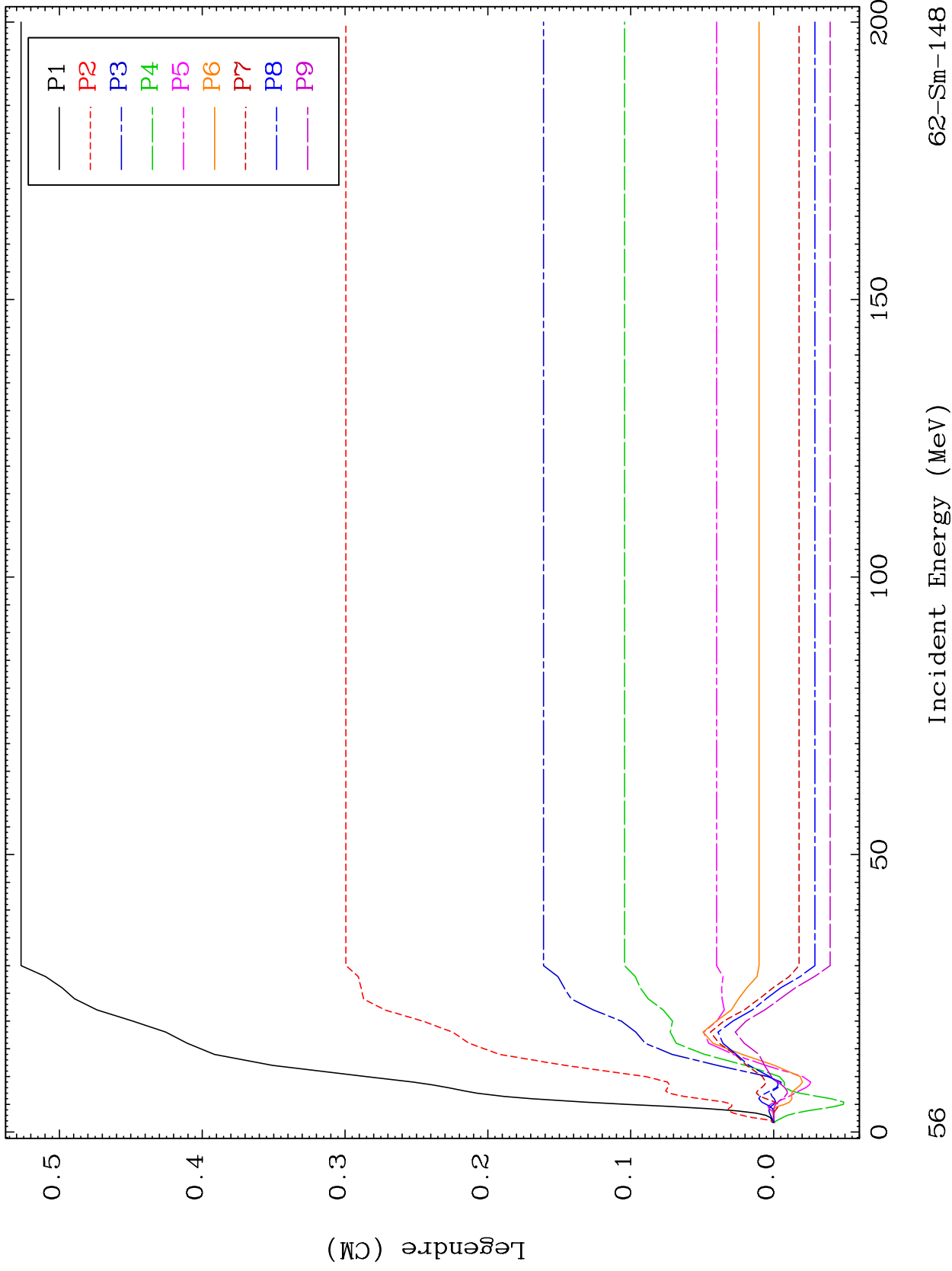




MAT 6237

1.664 MeV (n,n') Level  
Legendre Coefficients

62-Sm-148



56

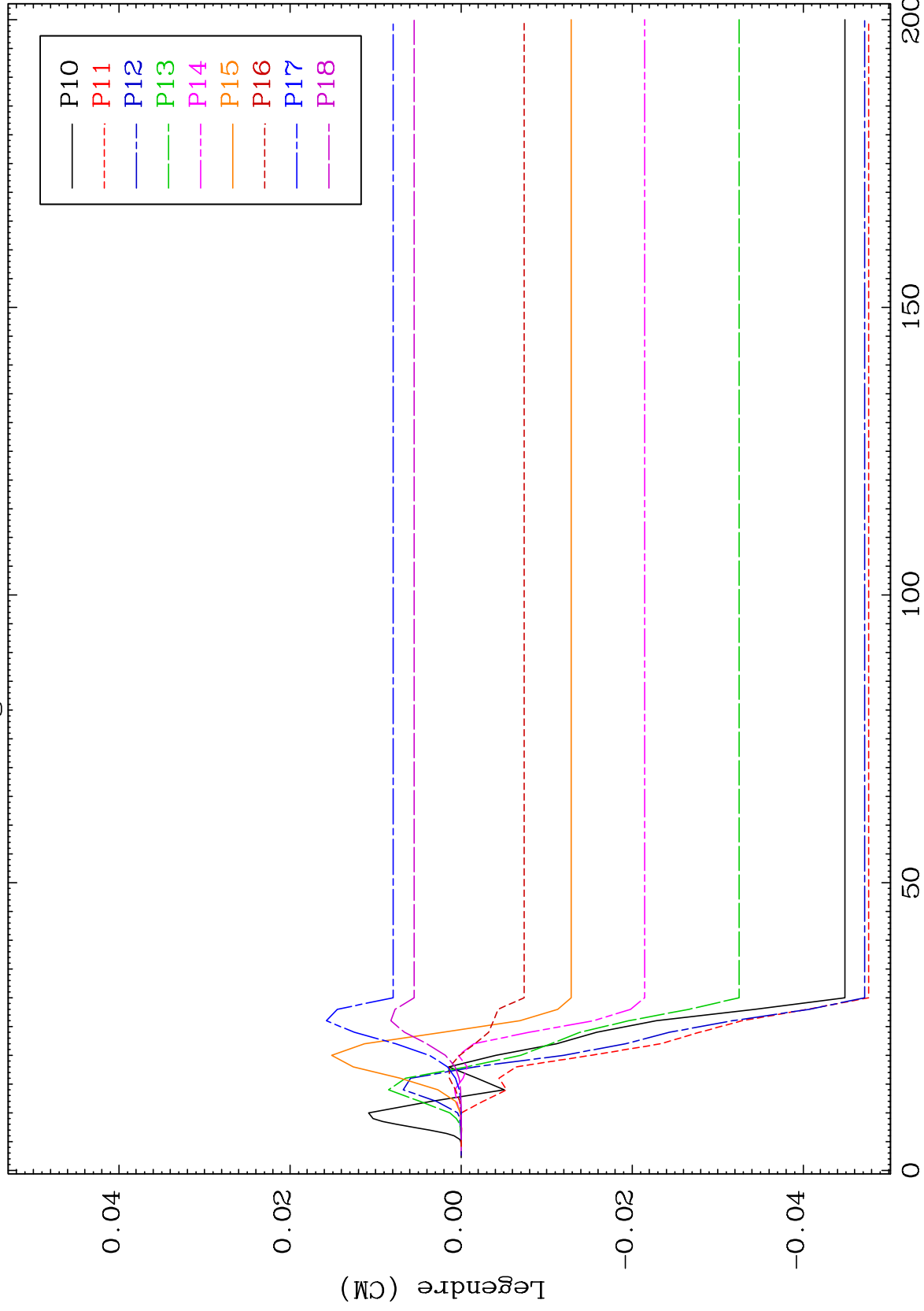
Incident Energy (MeV)

62-Sm-148

MAT 6237

1.664 MeV (n,n') Level  
Legendre Coefficients

62-Sm-148



57

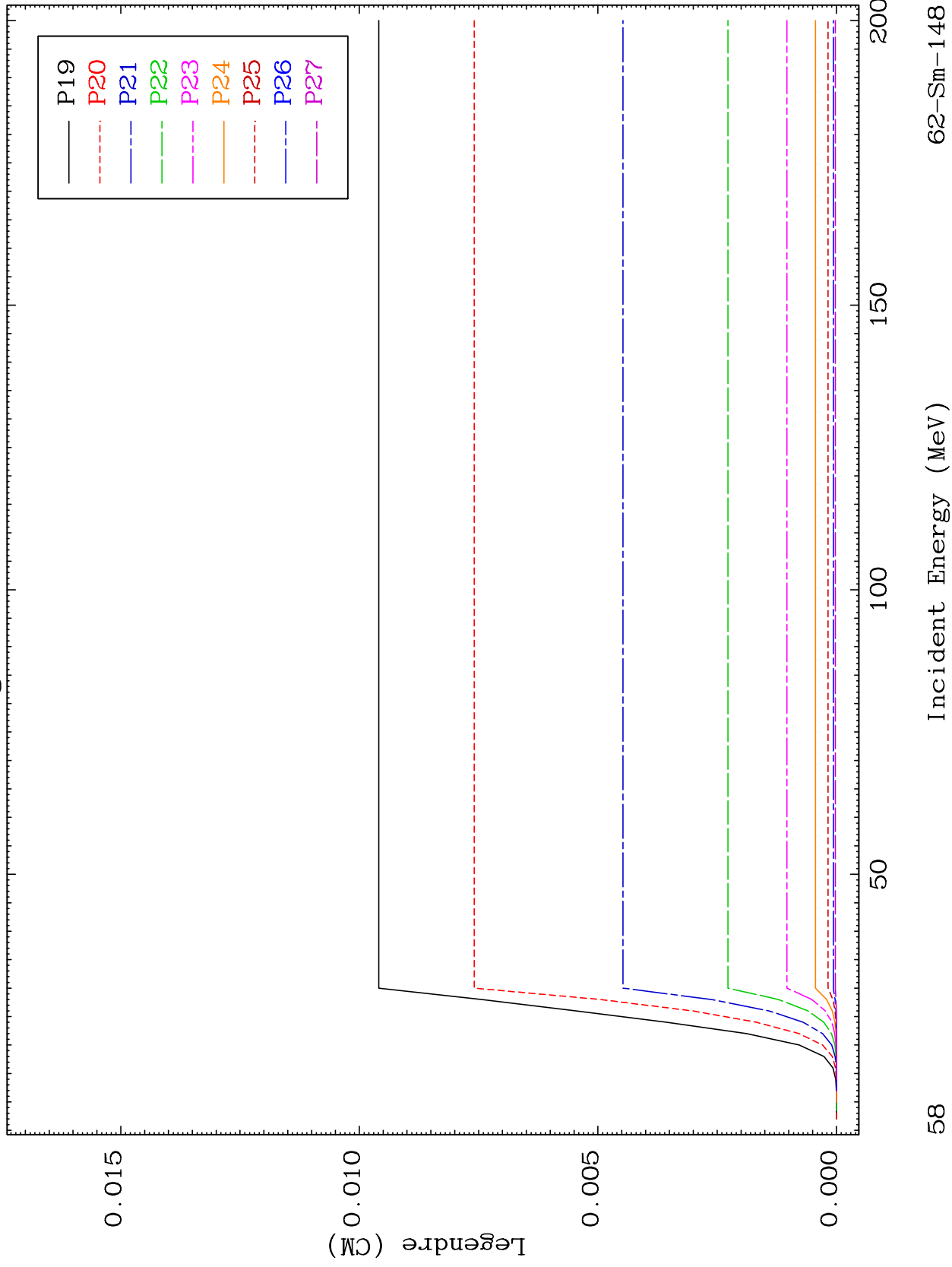
Incident Energy (MeV)

62-Sm-148

MAT 6237

1.664 MeV (n,n') Level  
Legendre Coefficients

62-Sm-148



58

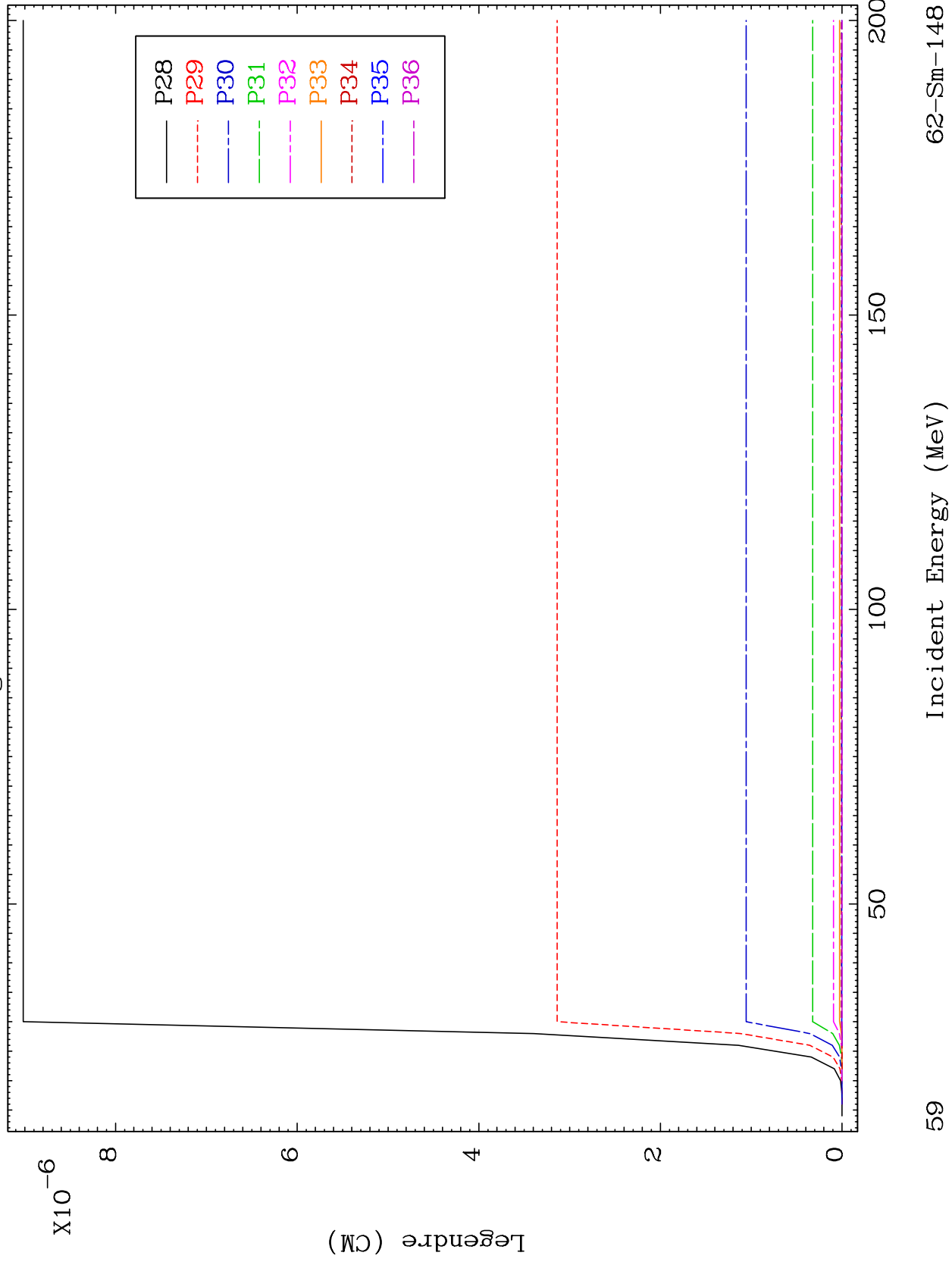
Incident Energy (MeV)

62-Sm-148

MAT 6237

1.664 MeV (n,n') Level  
Legendre Coefficients

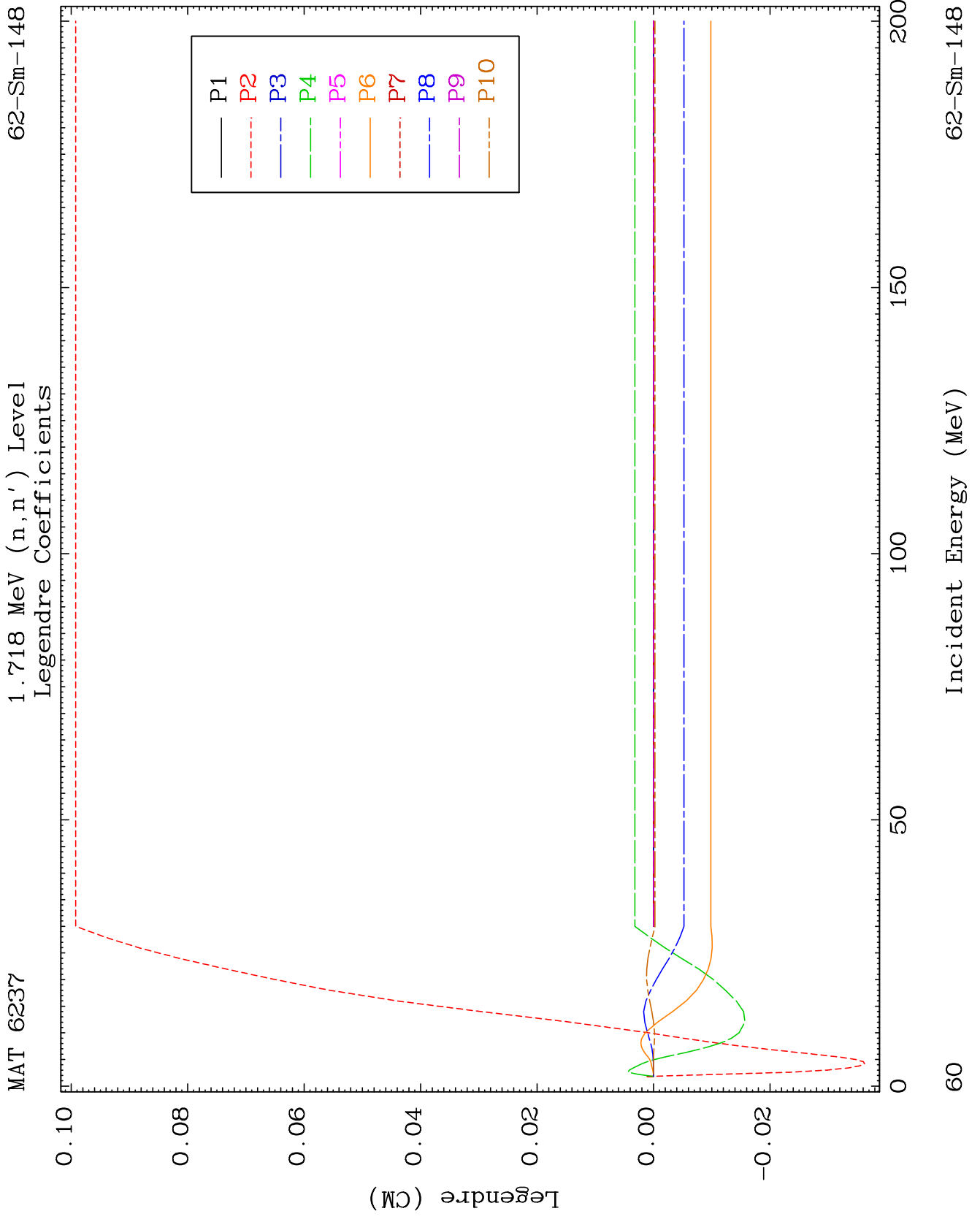
62-Sm-148

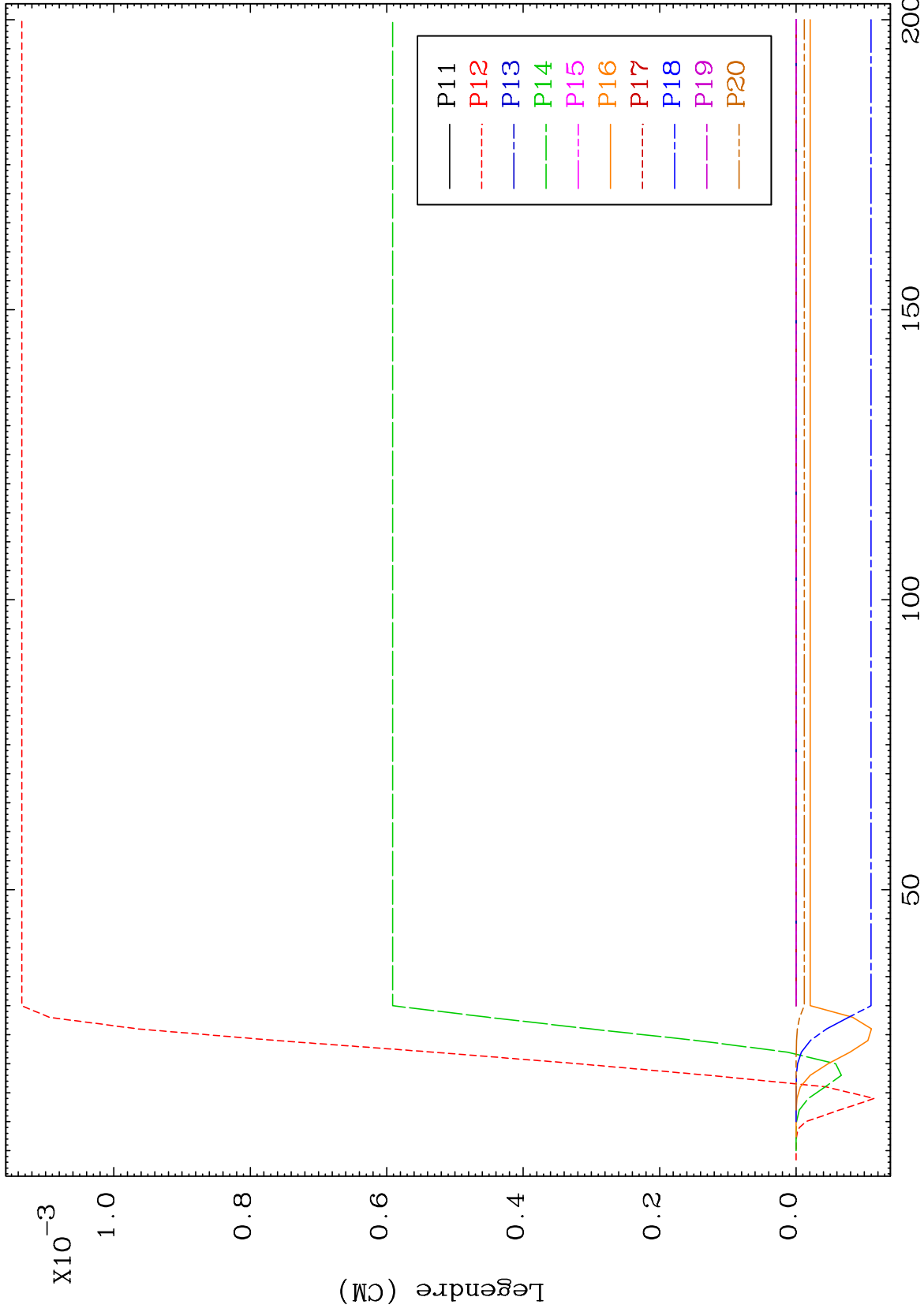


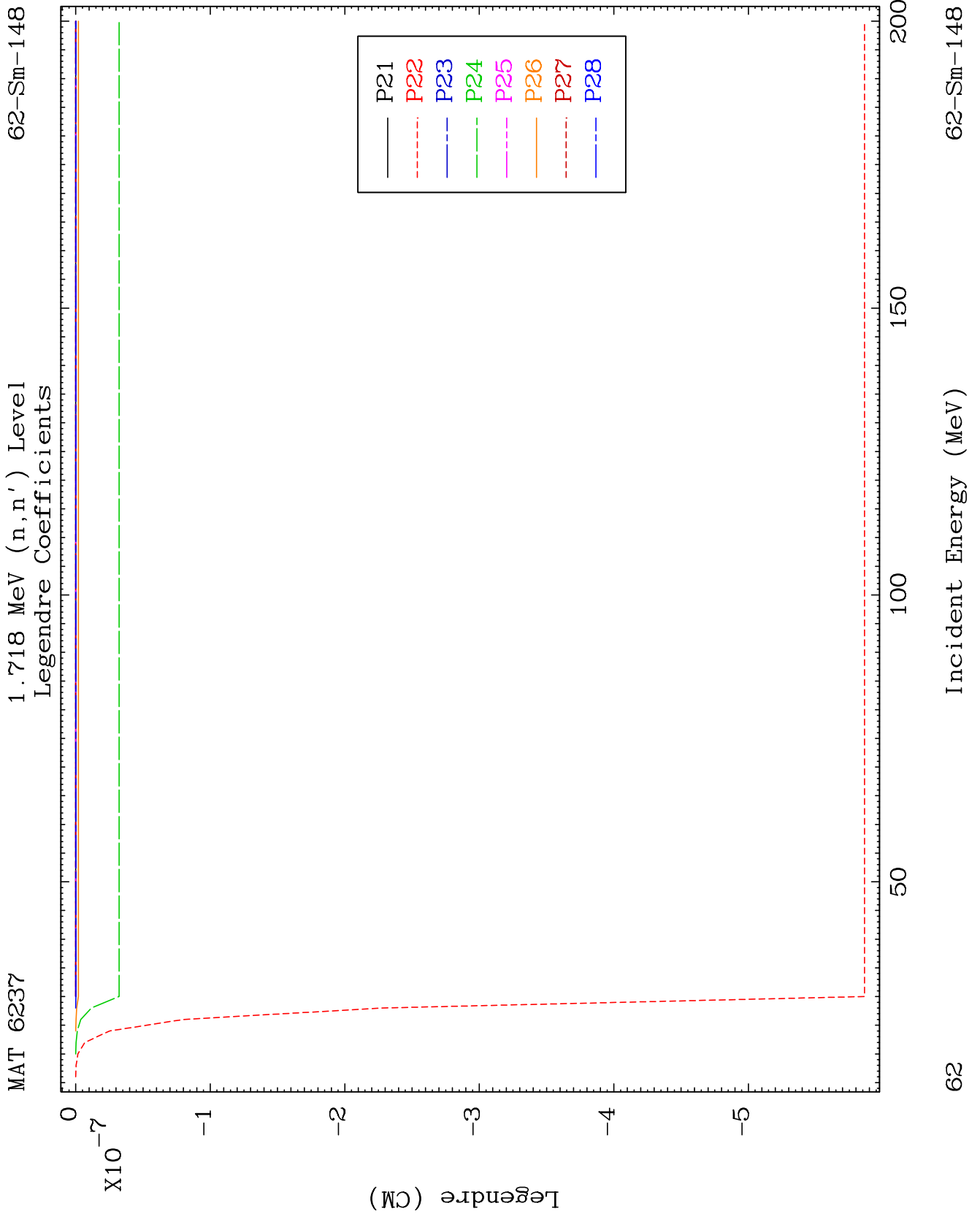
59

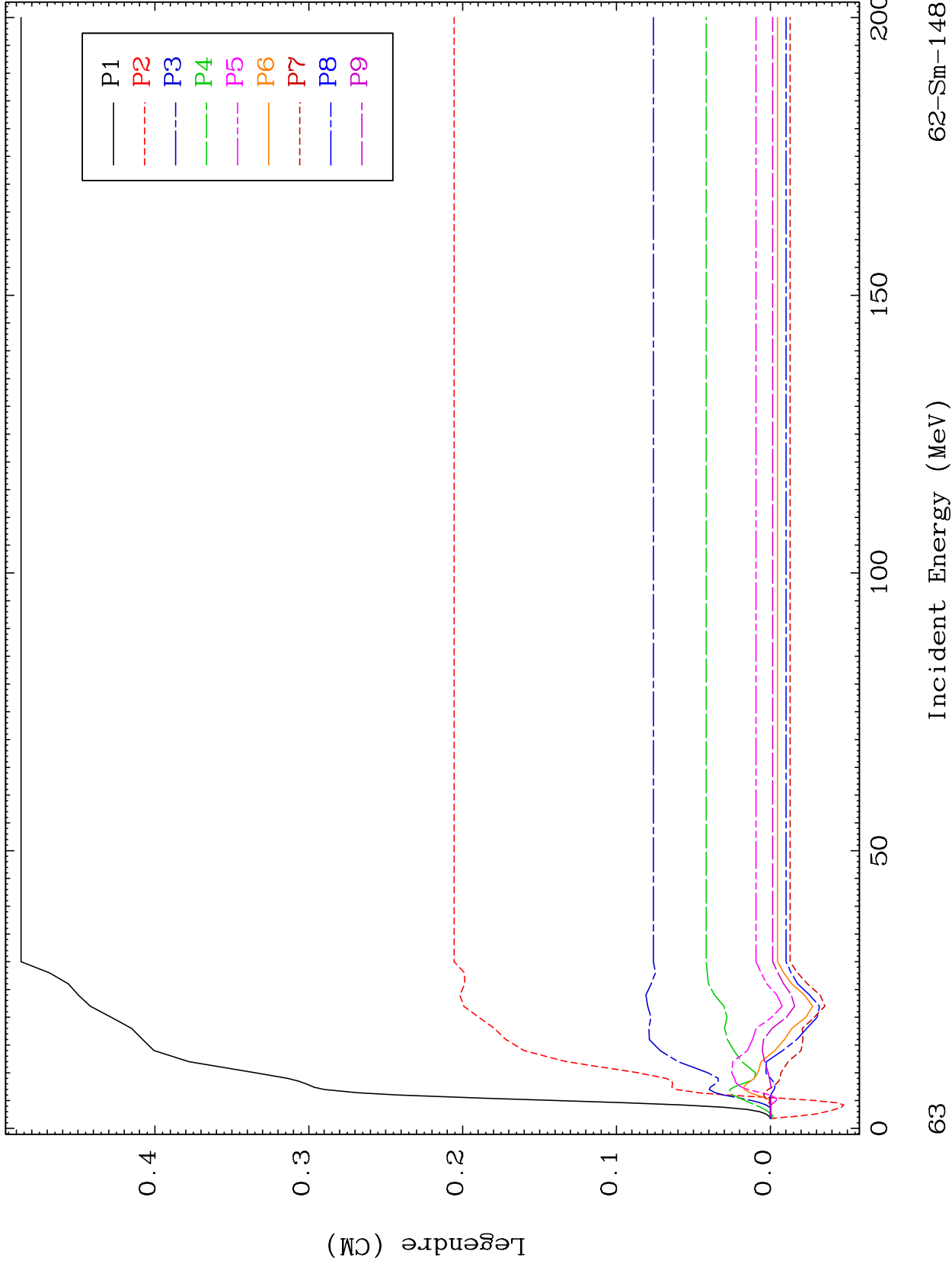
Incident Energy (MeV)

62-Sm-148







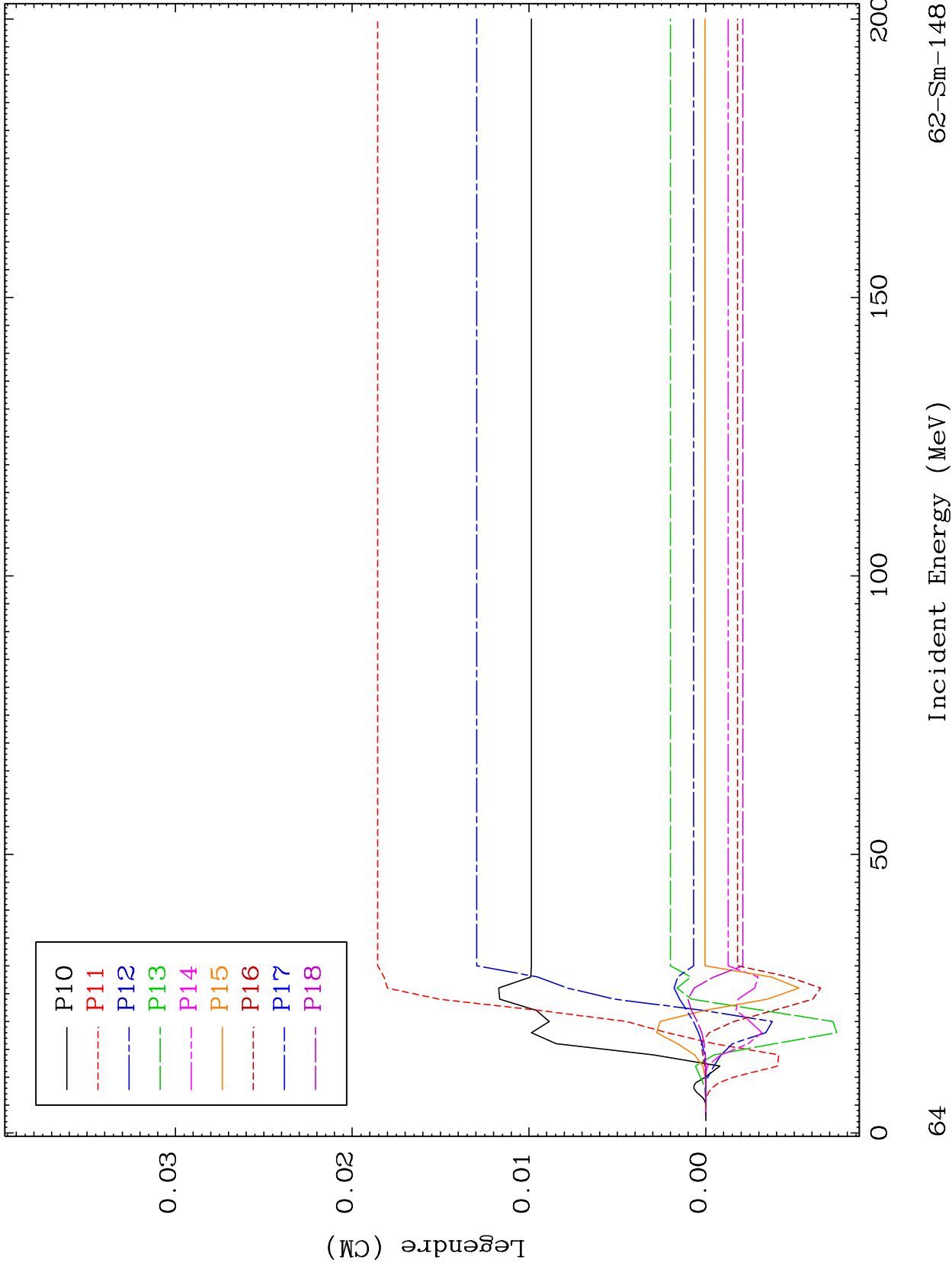




MAT 6237

1.733 MeV (n,n') Level  
Legendre Coefficients

62-Sm-148



64

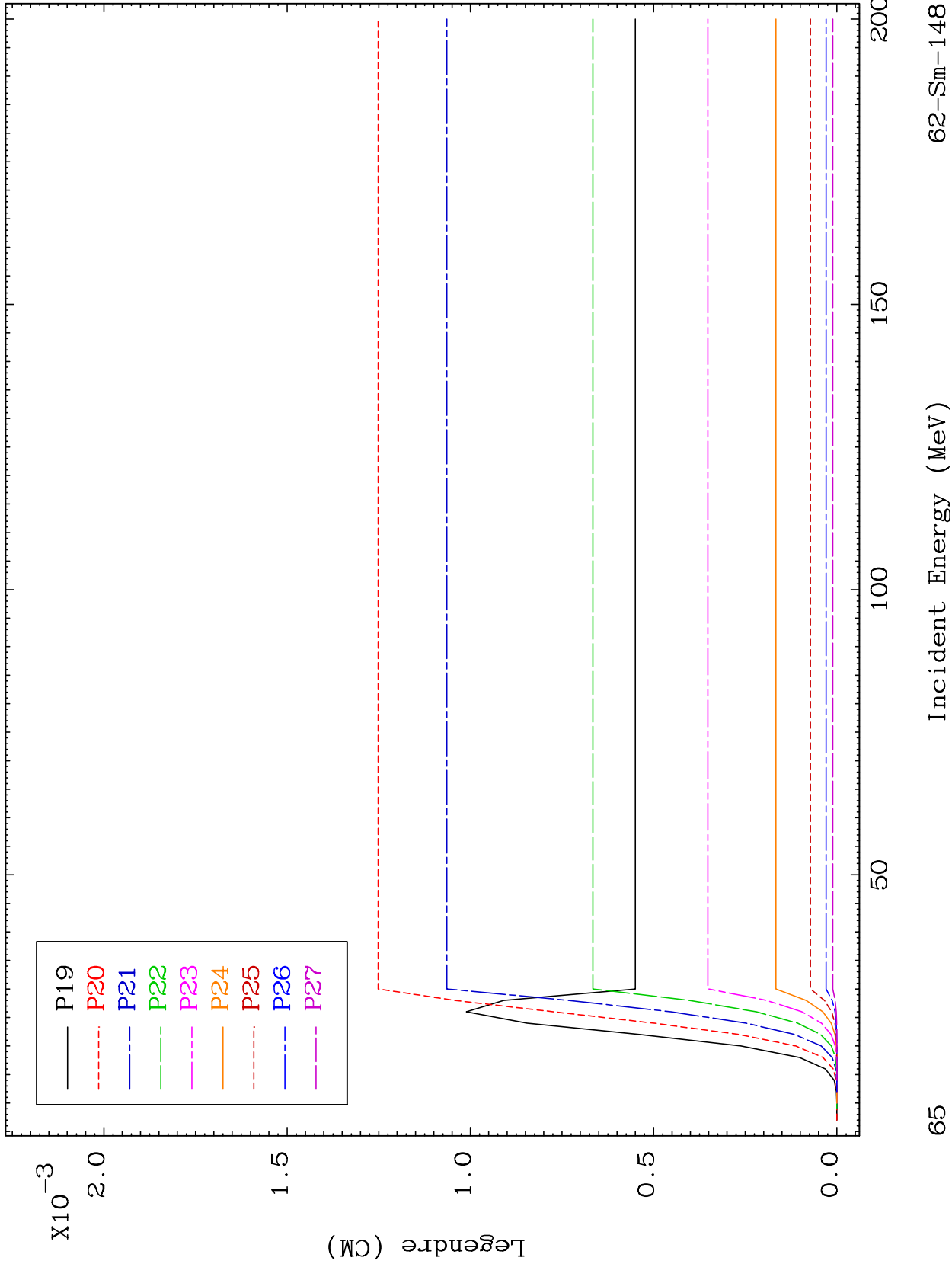
Incident Energy (MeV)

62-Sm-148

MAT 6237

1.733 MeV (n,n') Level  
Legendre Coefficients

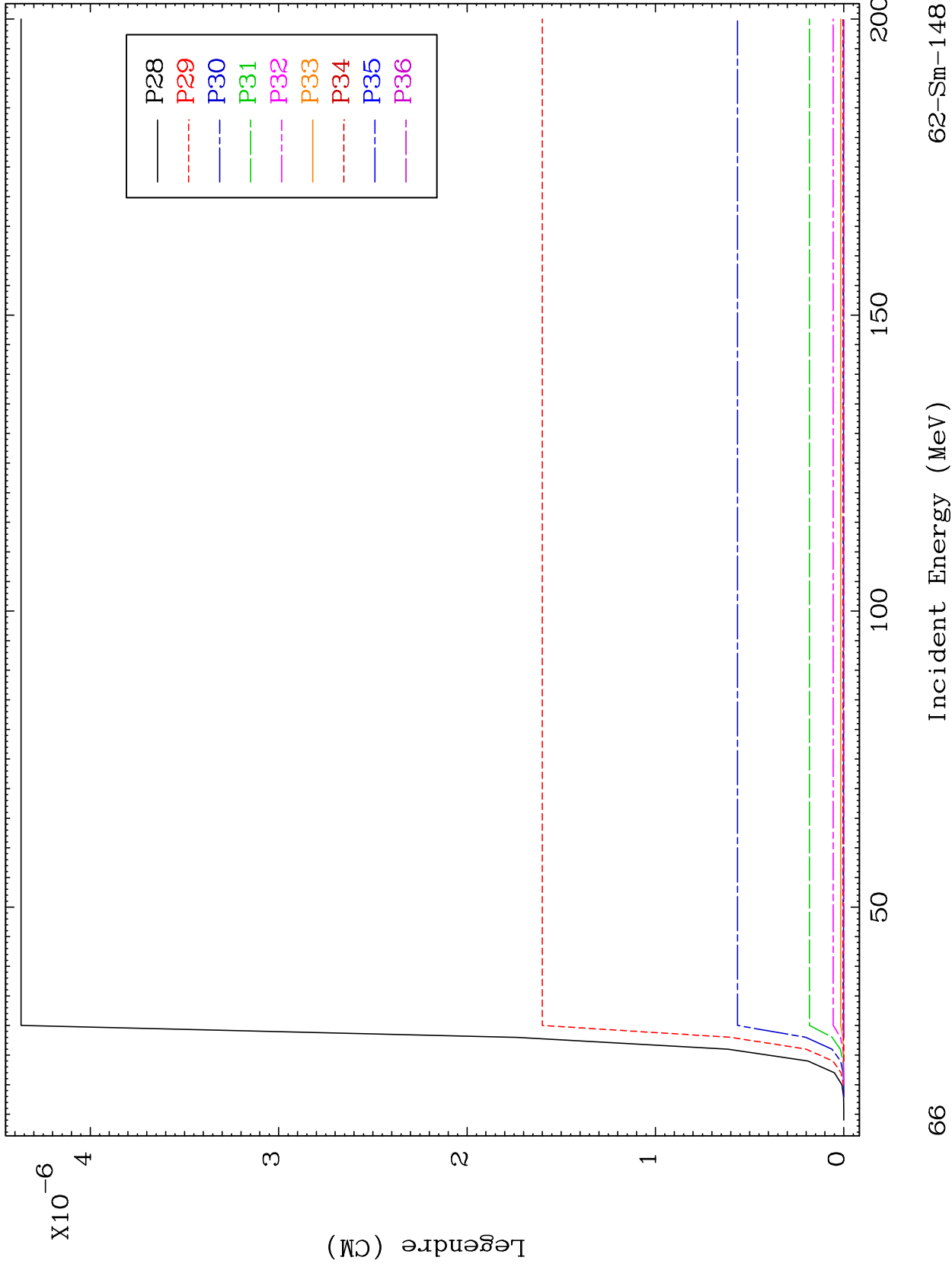
62-Sm-148



MAT 6237

1.733 MeV (n,n') Level  
Legendre Coefficients

62-Sm-148



66

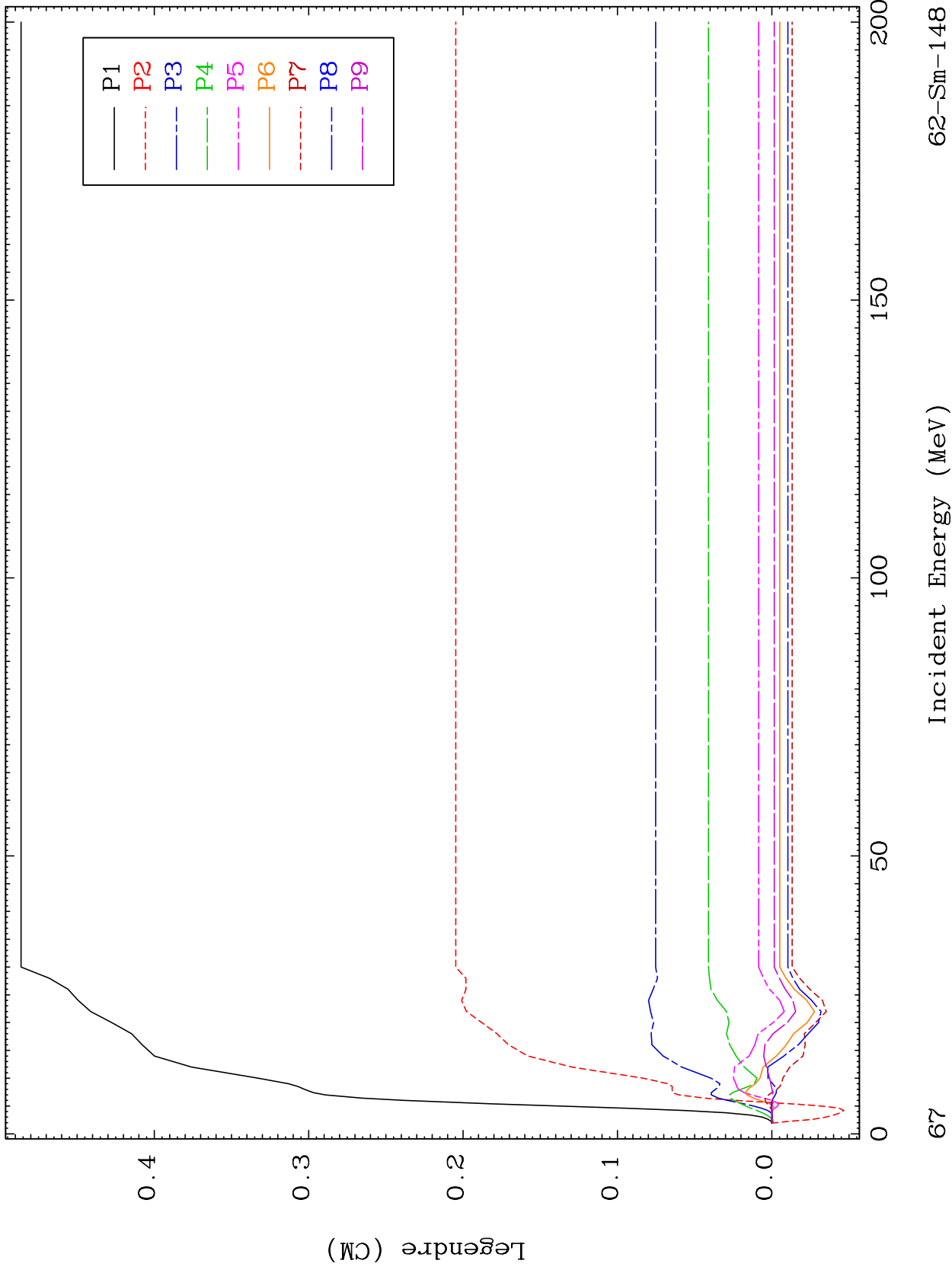
Incident Energy (MeV)

62-Sm-148

MAT 6237

1.895 MeV (n,n') Level  
Legendre Coefficients

62-Sm-148



62-Sm-148

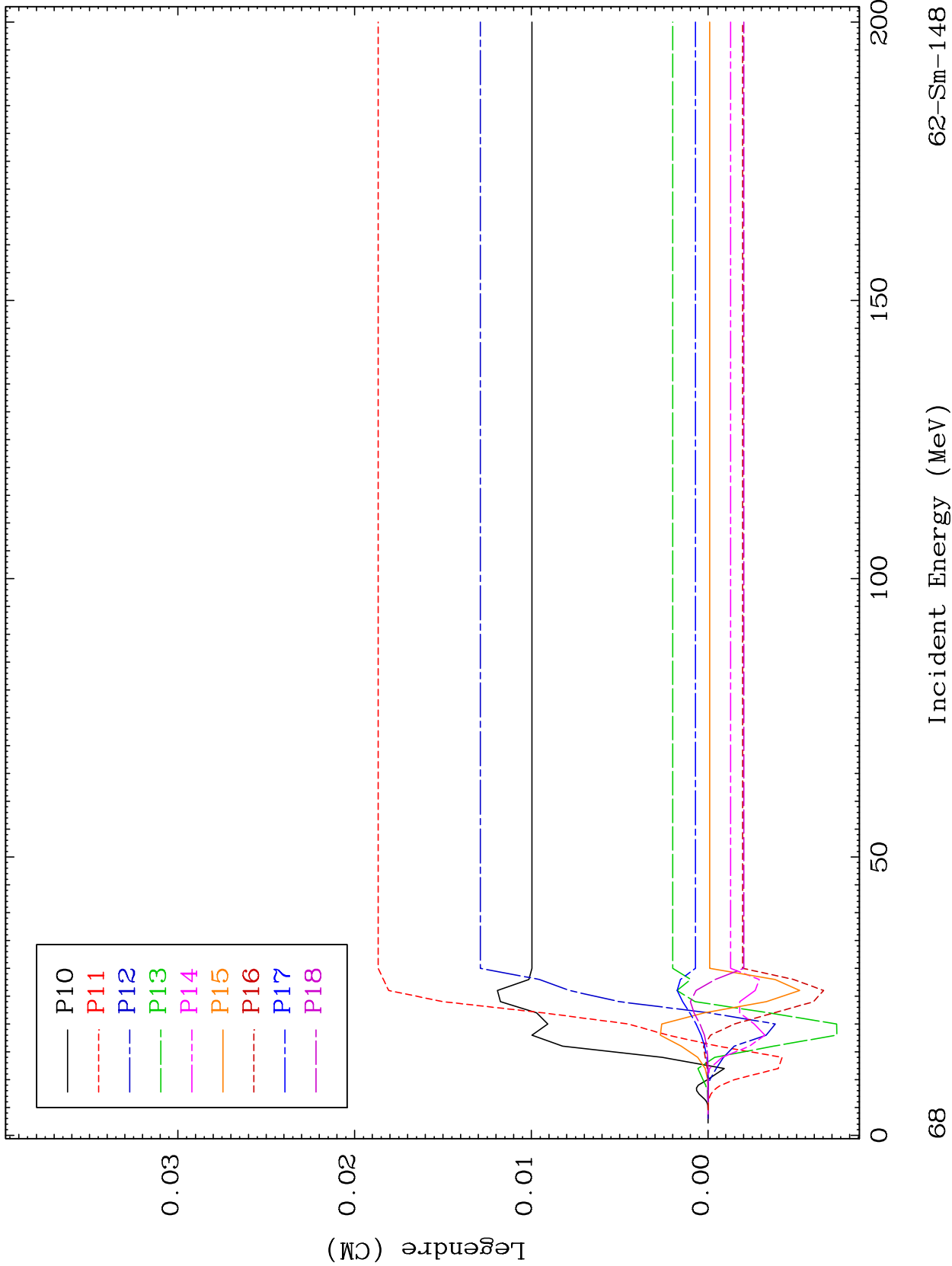
Incident Energy (MeV)

67

MAT 6237

1.895 MeV (n,n') Level  
Legendre Coefficients

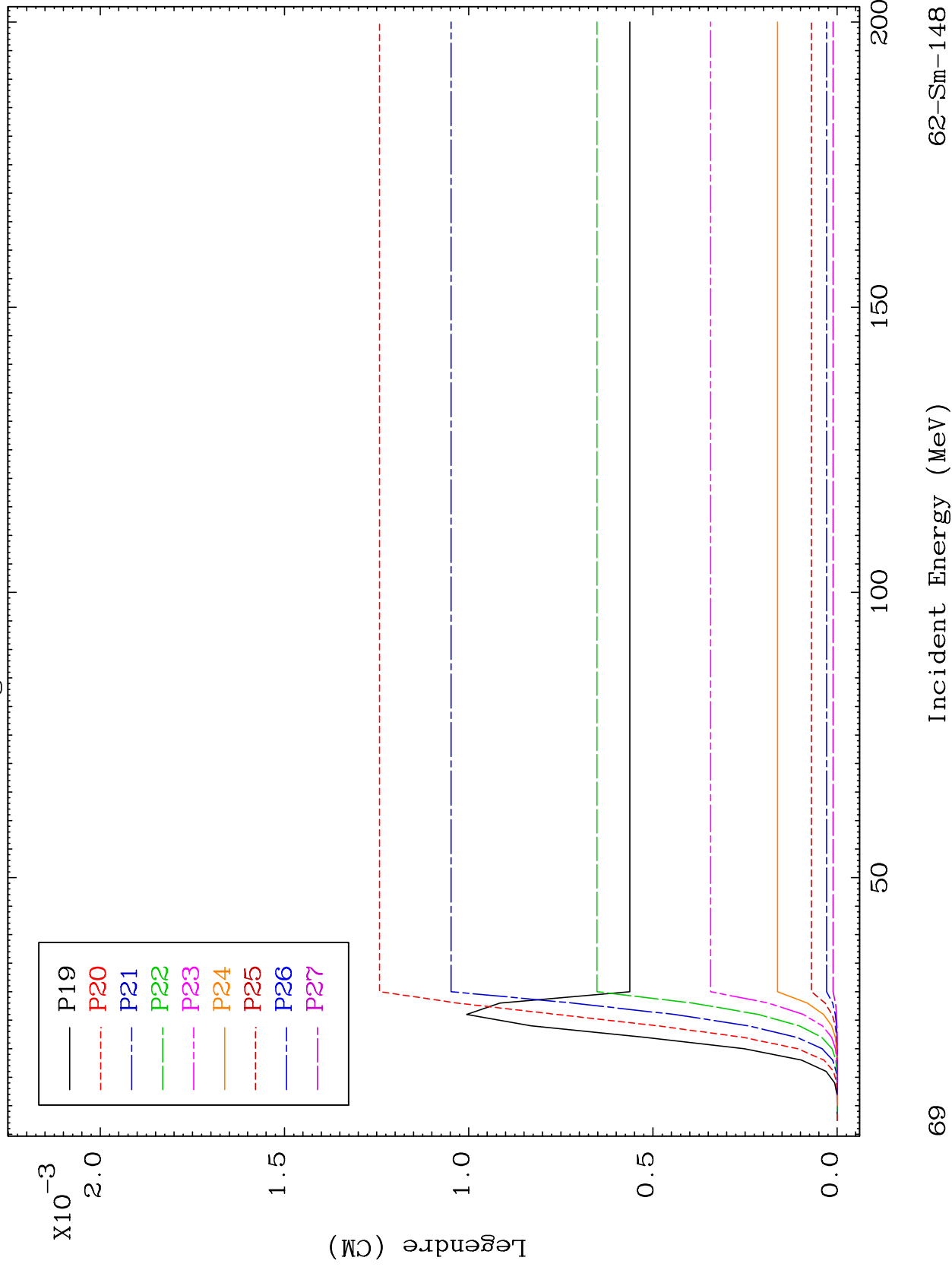
62-Sm-148



68

Incident Energy (MeV)

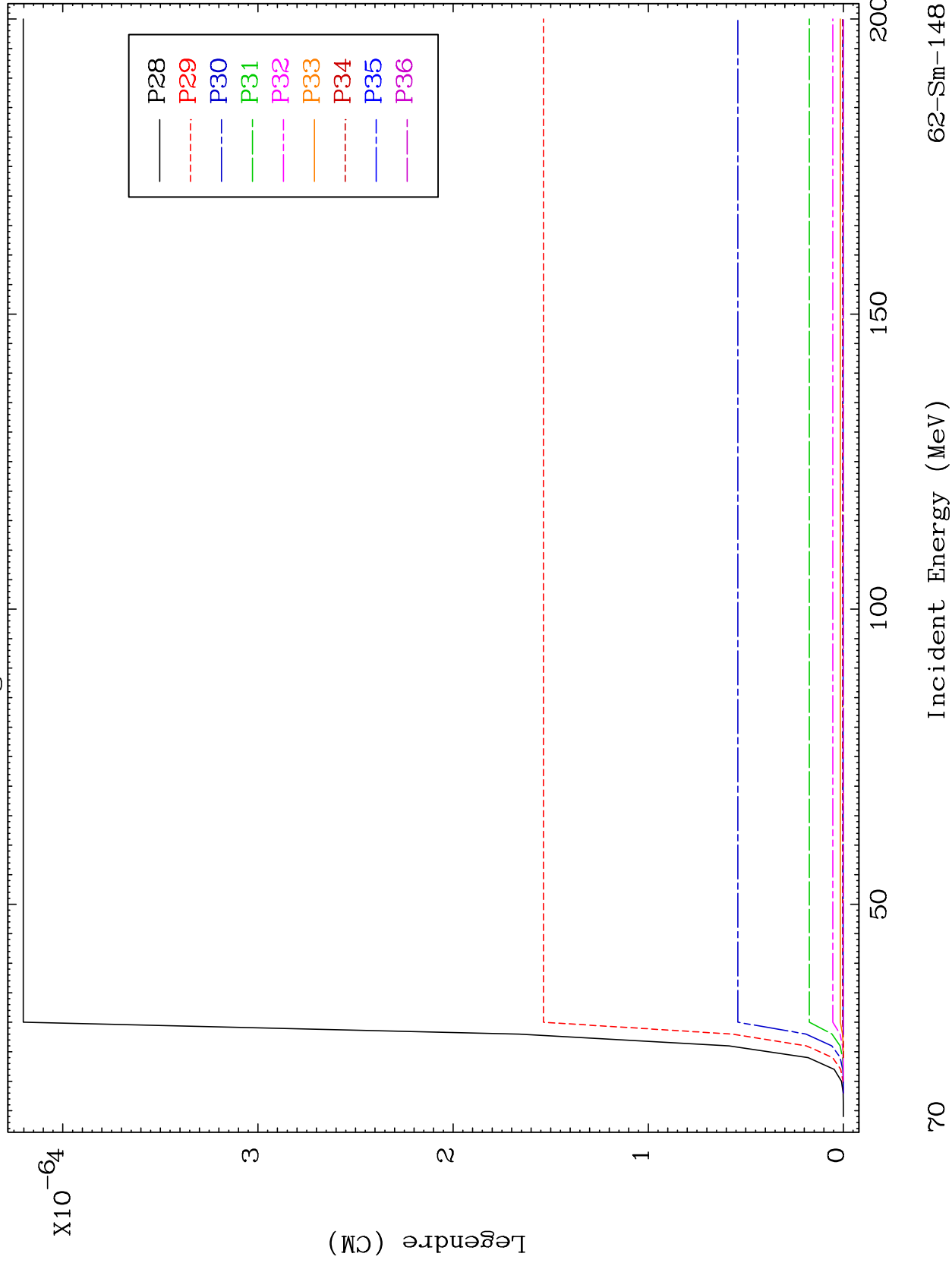
62-Sm-148

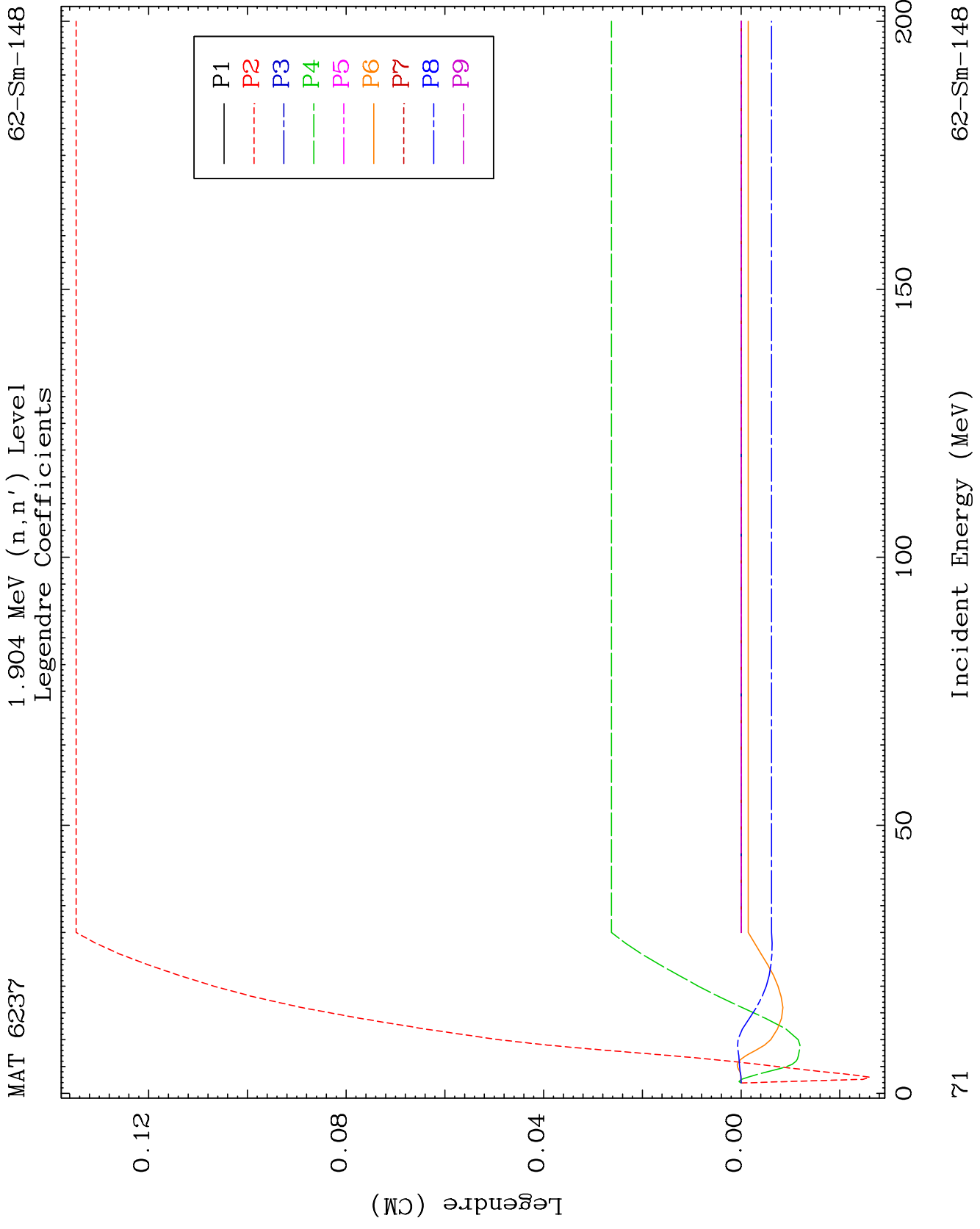


MAT 6237

1.895 MeV (n,n') Level  
Legendre Coefficients

62-Sm-148



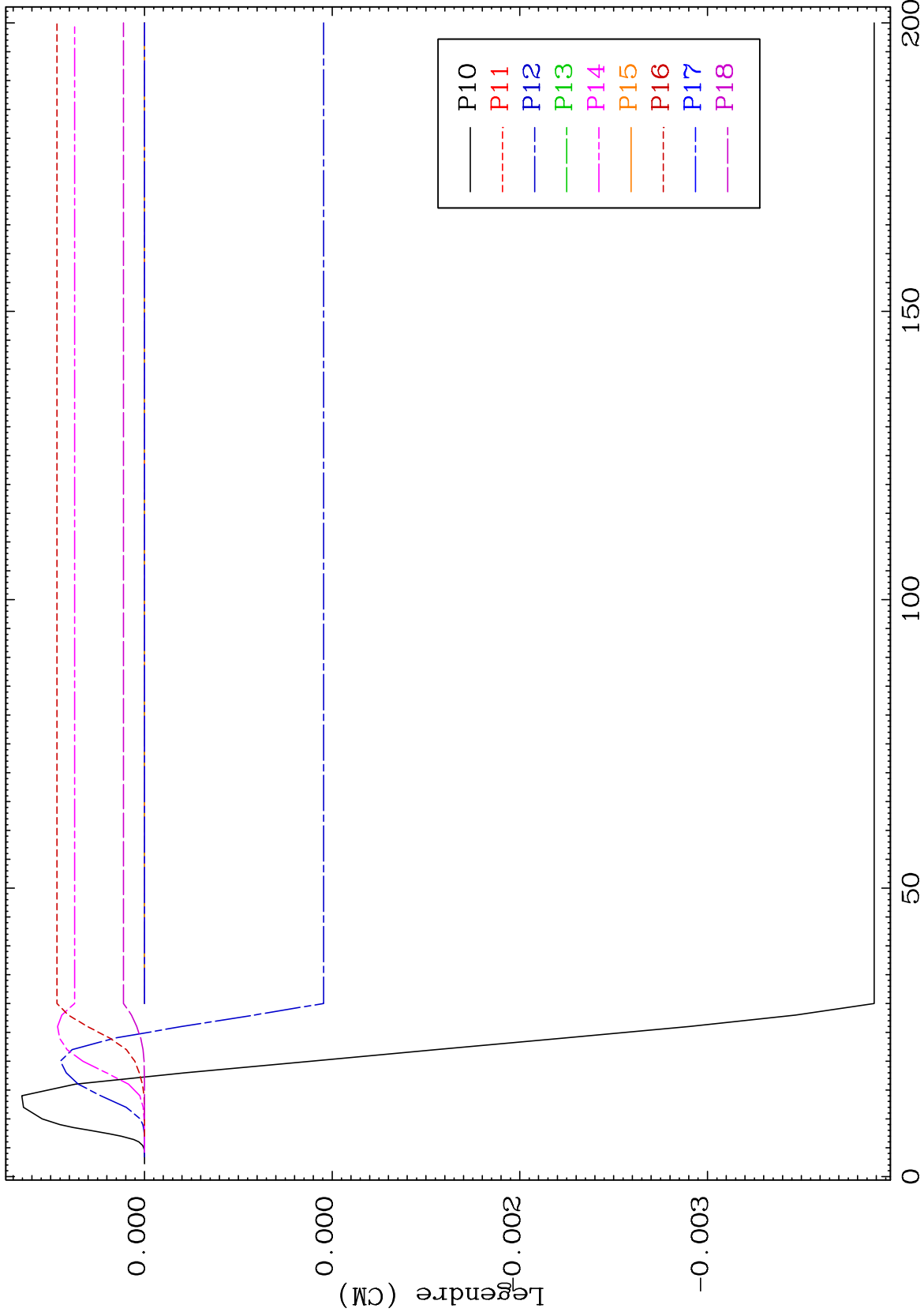




MAT 6237

1.904 MeV (n,n') Level  
Legendre Coefficients

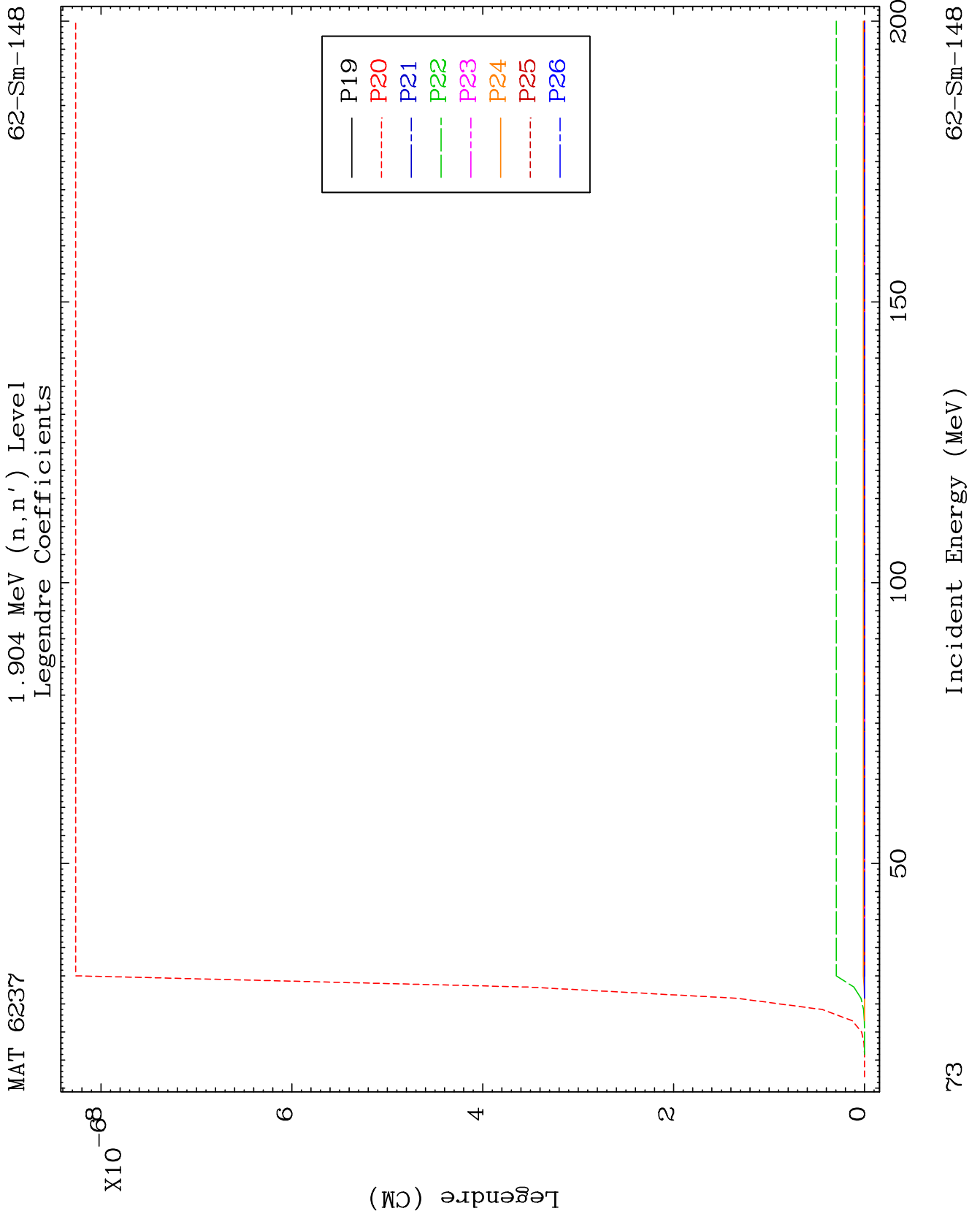
62-Sm-148



72

Incident Energy (MeV)

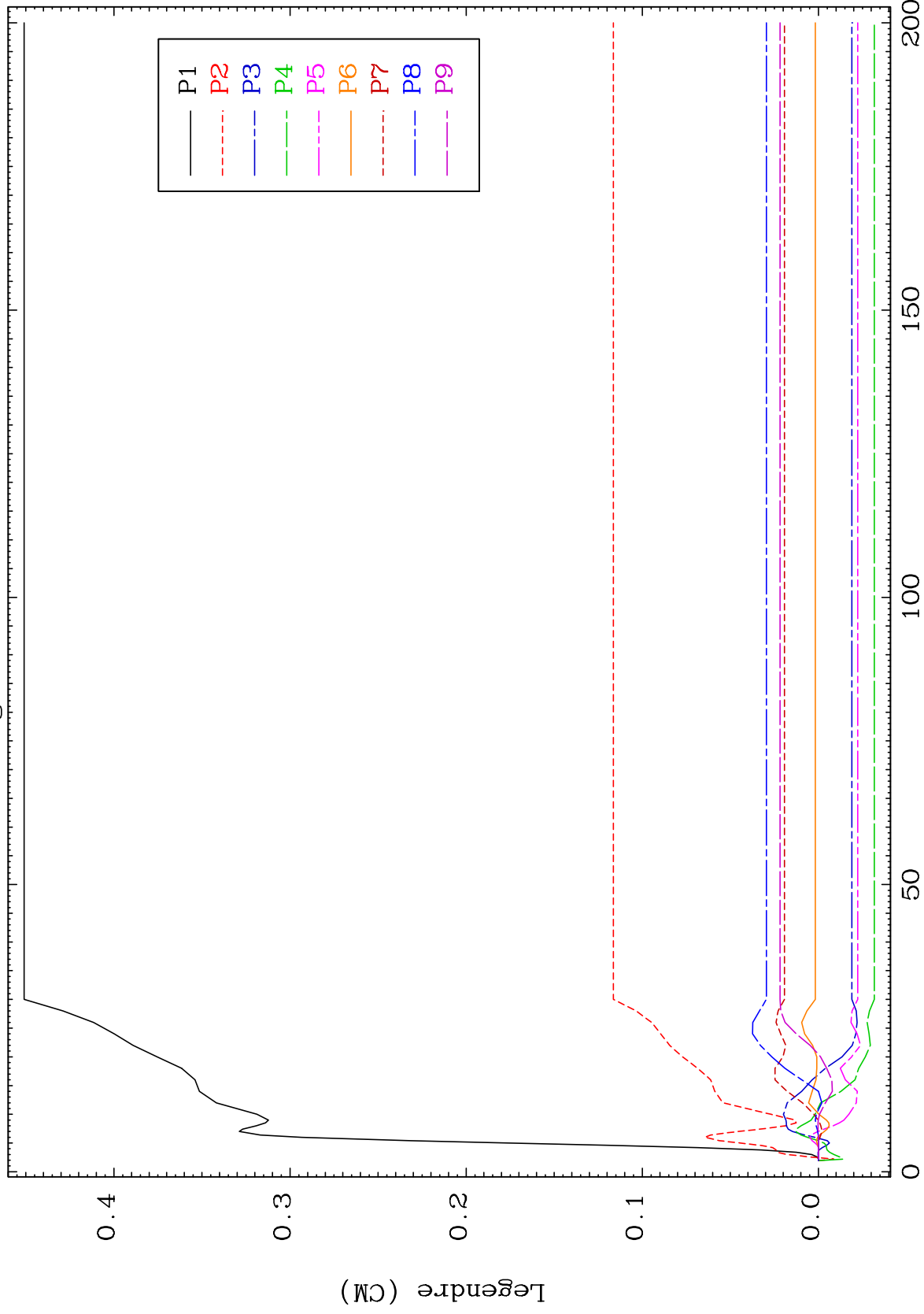
62-Sm-148



MAT 6237

1.906 MeV (n,n') Level  
Legendre Coefficients

62-Sm-148



74

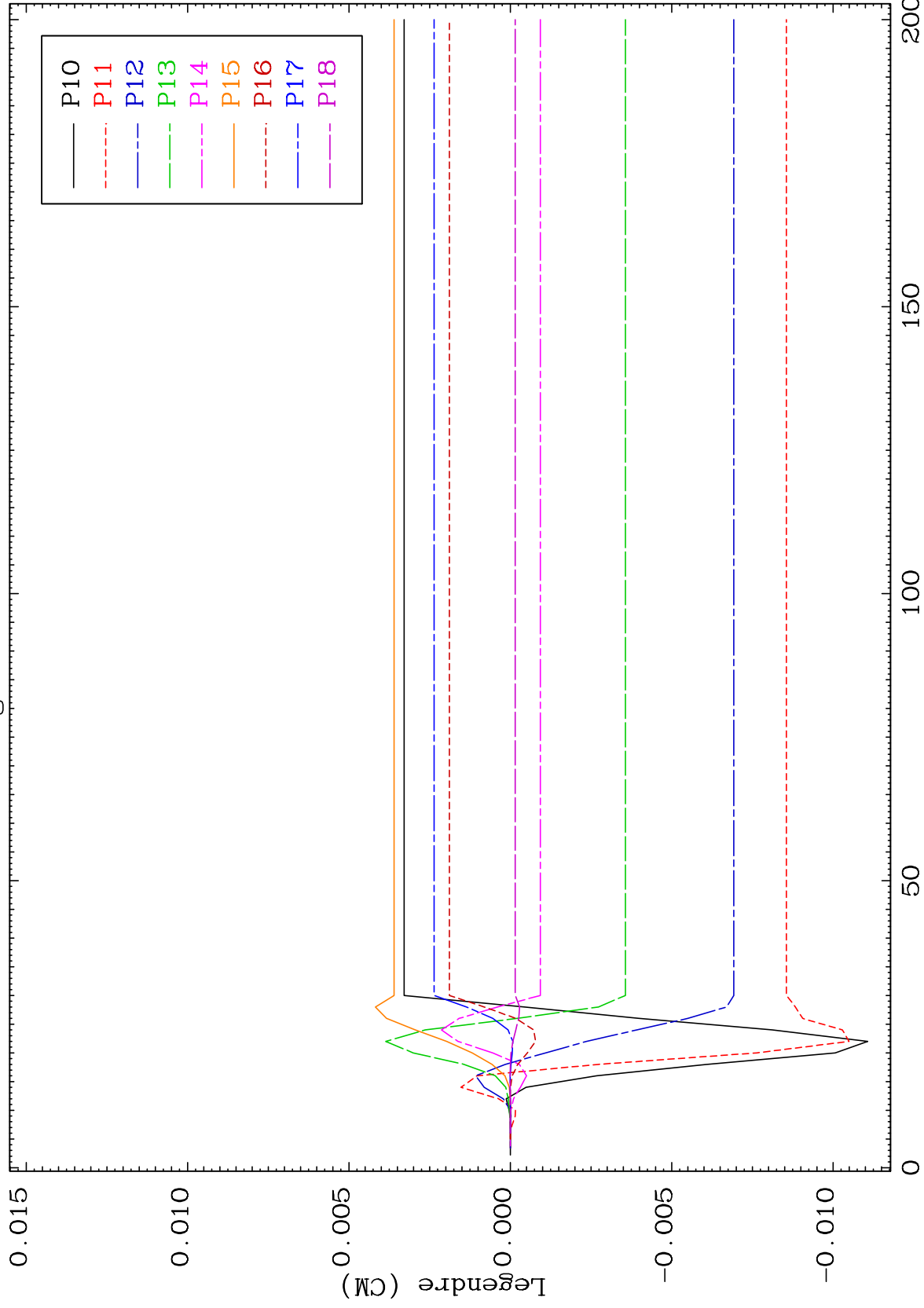
Incident Energy (MeV)

62-Sm-148

MAT 6237

1.906 MeV (n,n') Level  
Legendre Coefficients

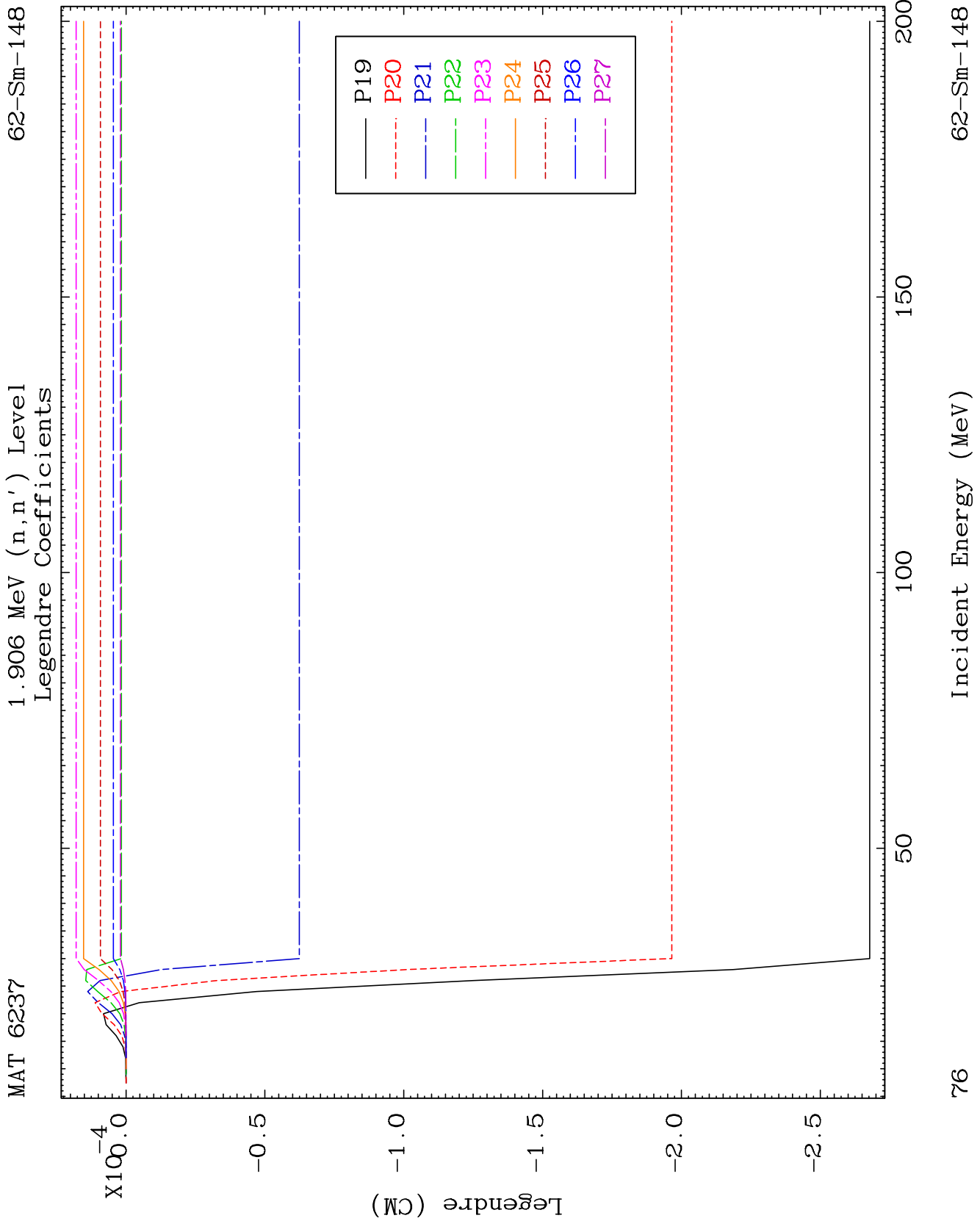
62-Sm-148



75

Incident Energy (MeV)

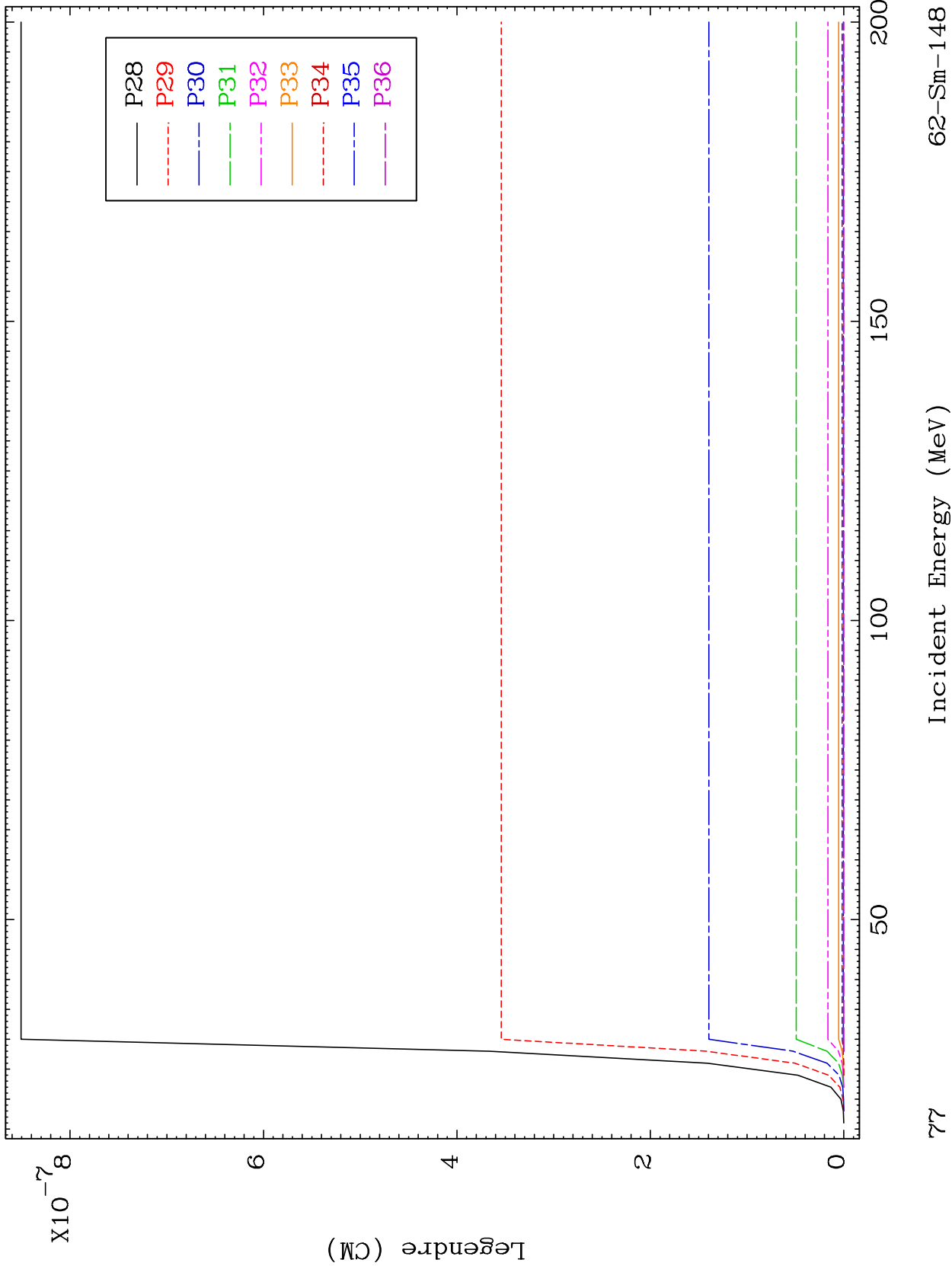
62-Sm-148

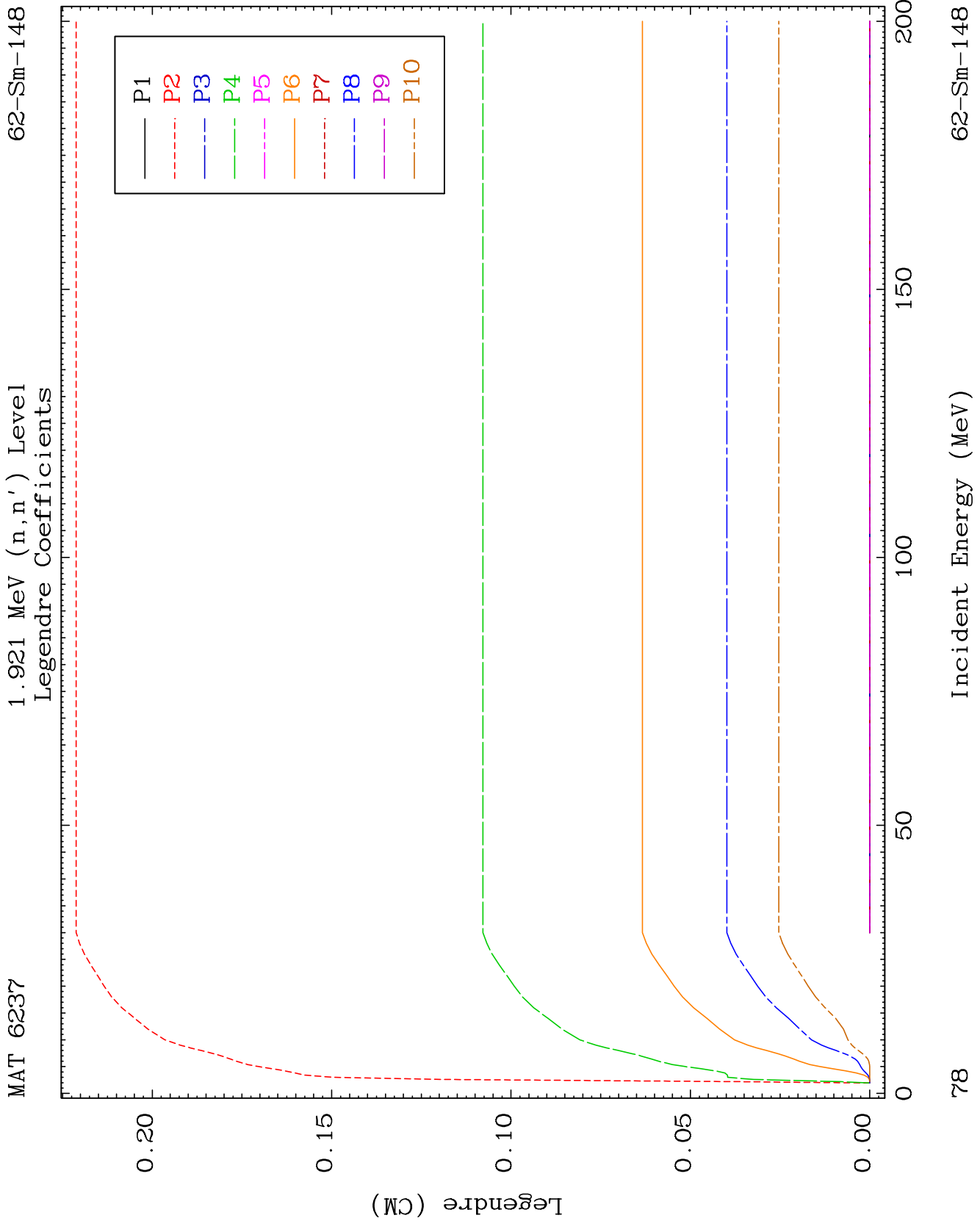


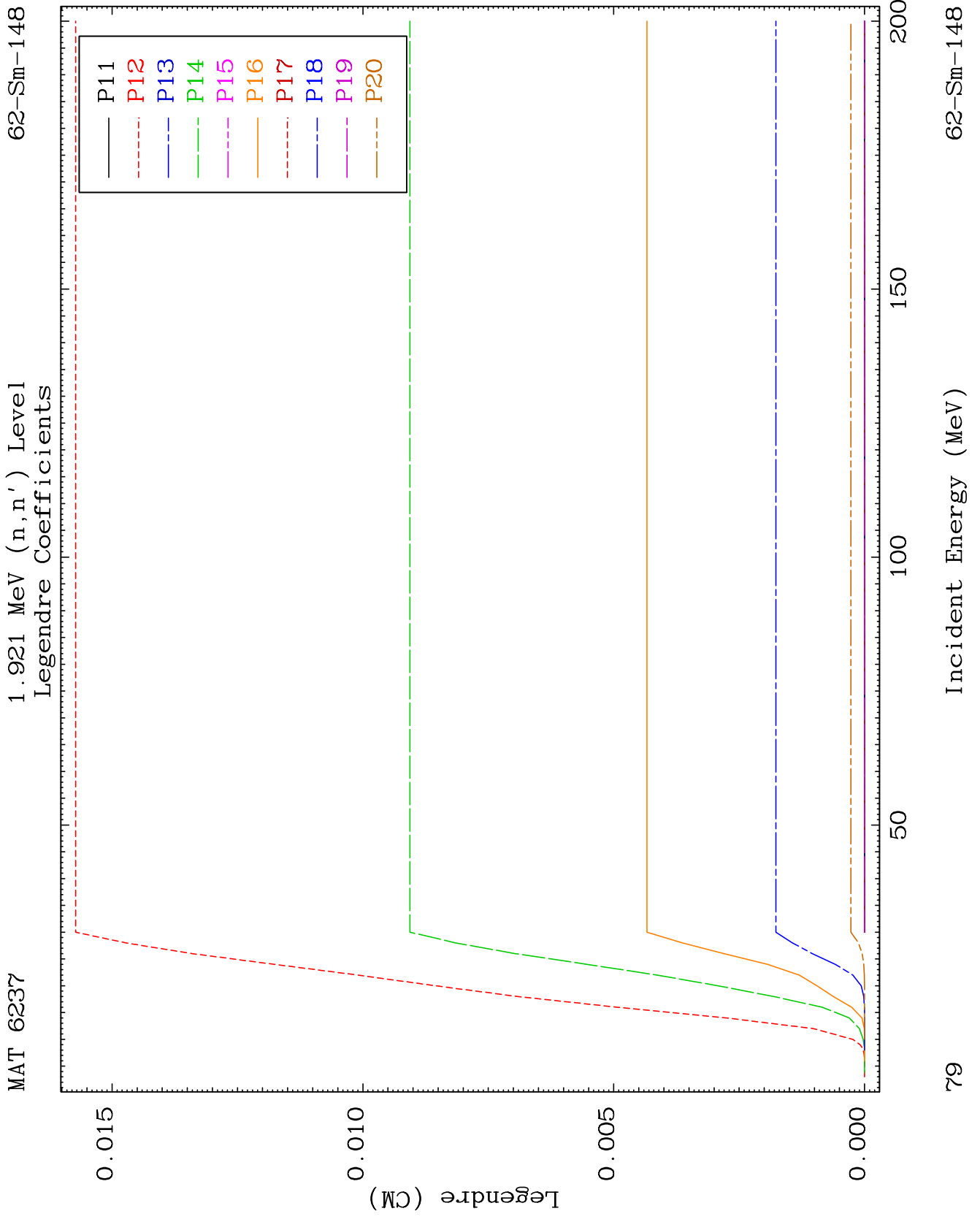
MAT 6237

1.906 MeV (n,n') Level  
Legendre Coefficients

62-Sm-148







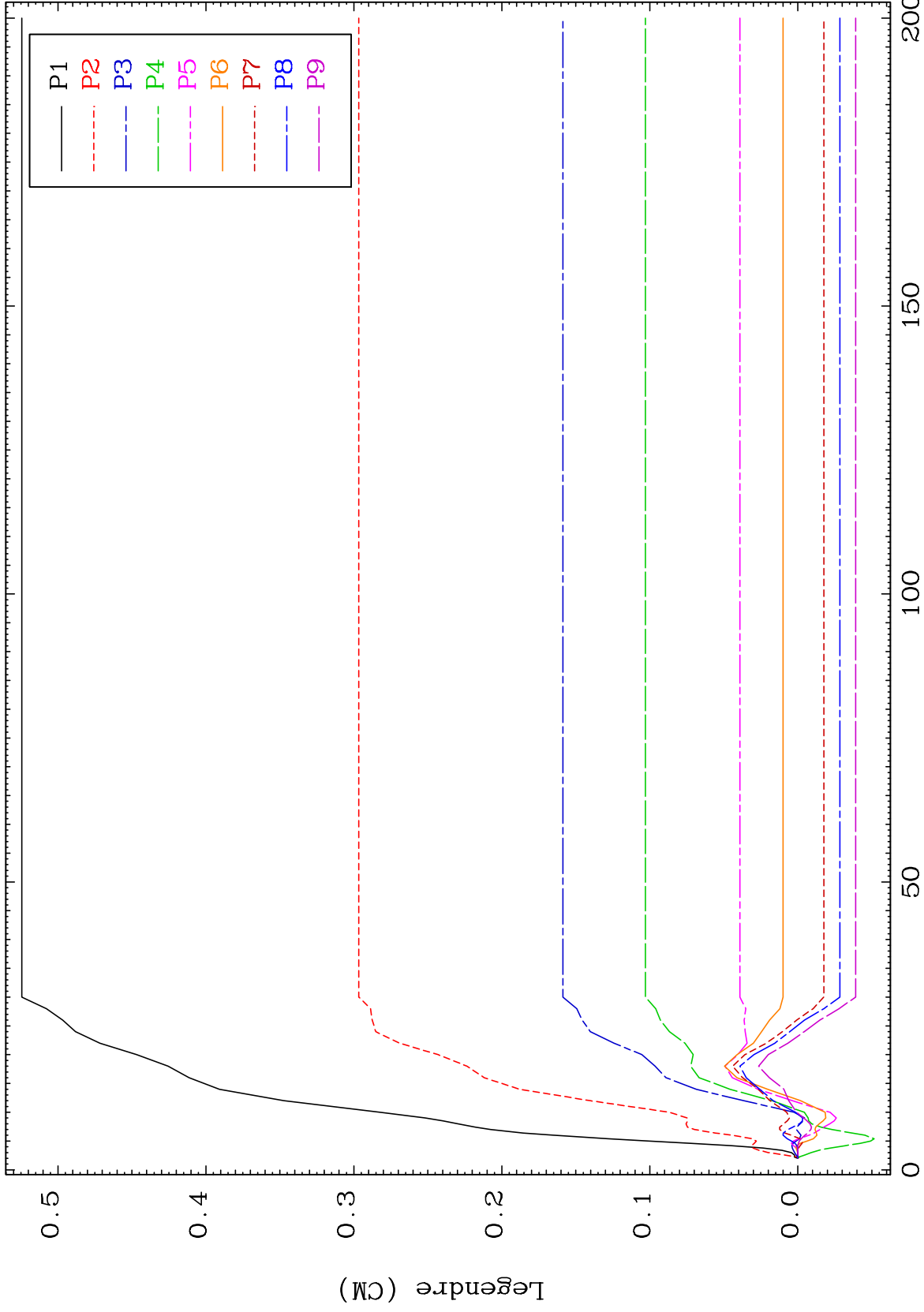




MAT 6237

1.972 MeV (n,n') Level  
Legendre Coefficients

62-Sm-148



81

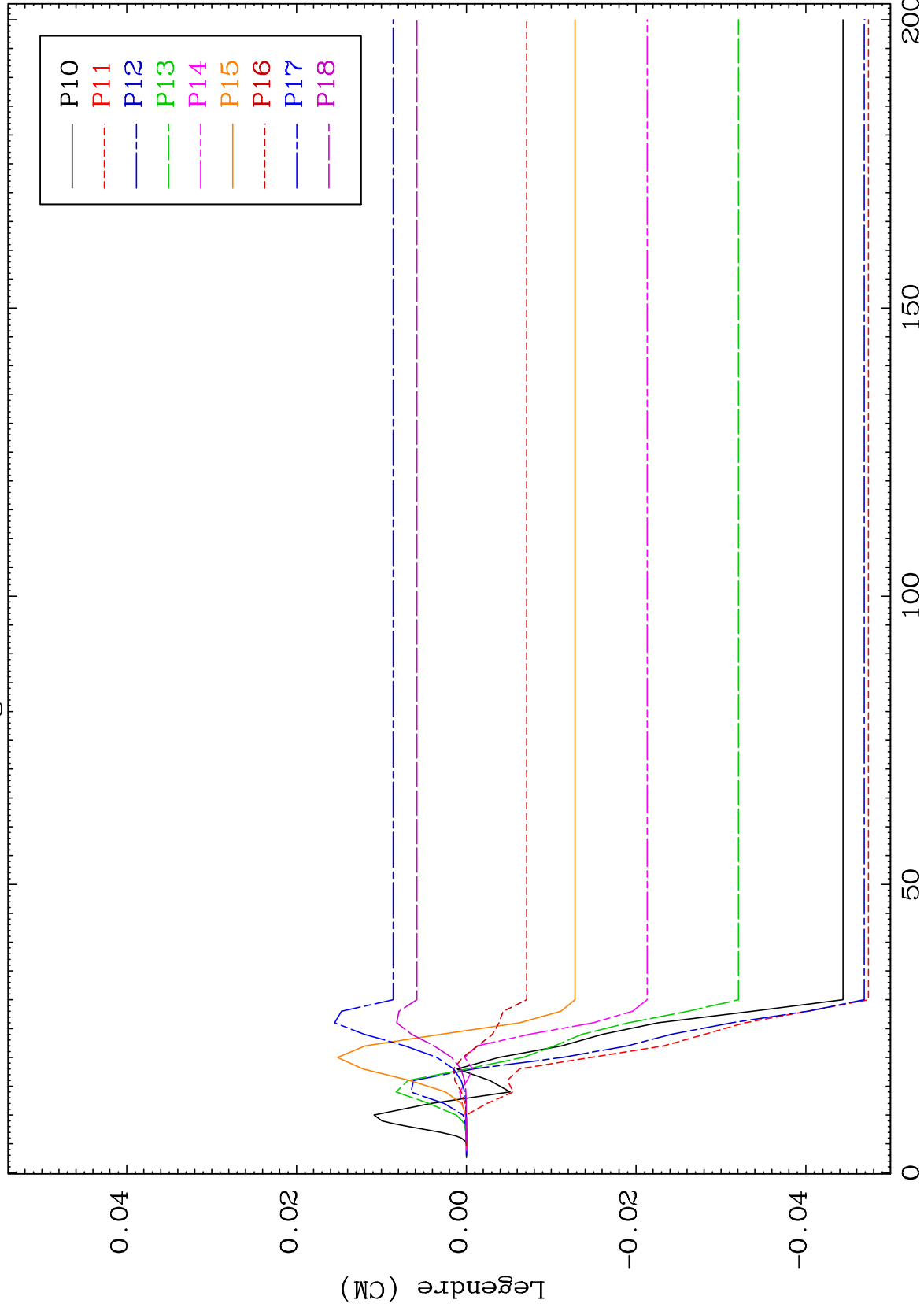
Incident Energy (MeV)

62-Sm-148

MAT 6237

1.972 MeV (n,n') Level  
Legendre Coefficients

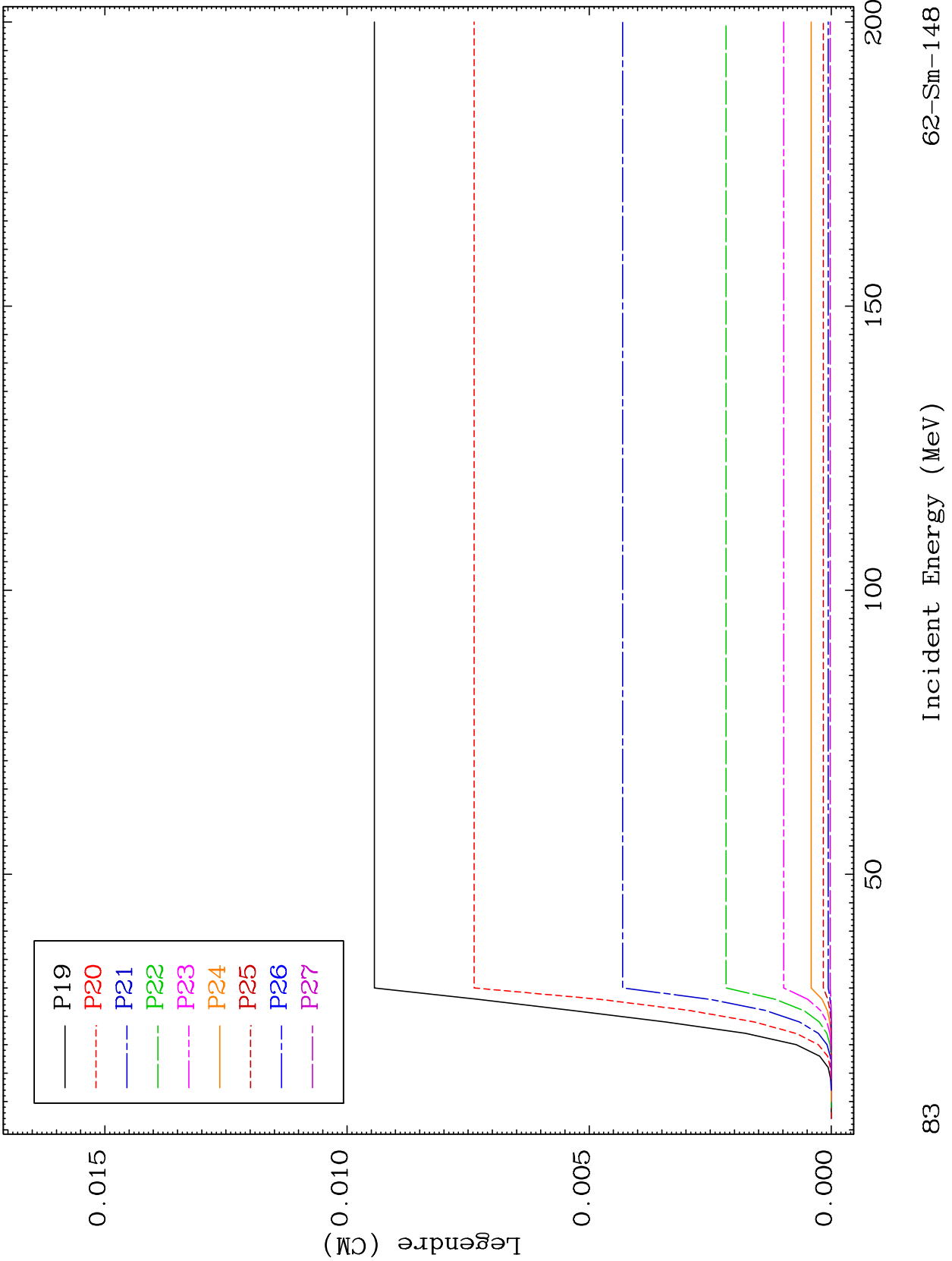
62-Sm-148



82

Incident Energy (MeV)

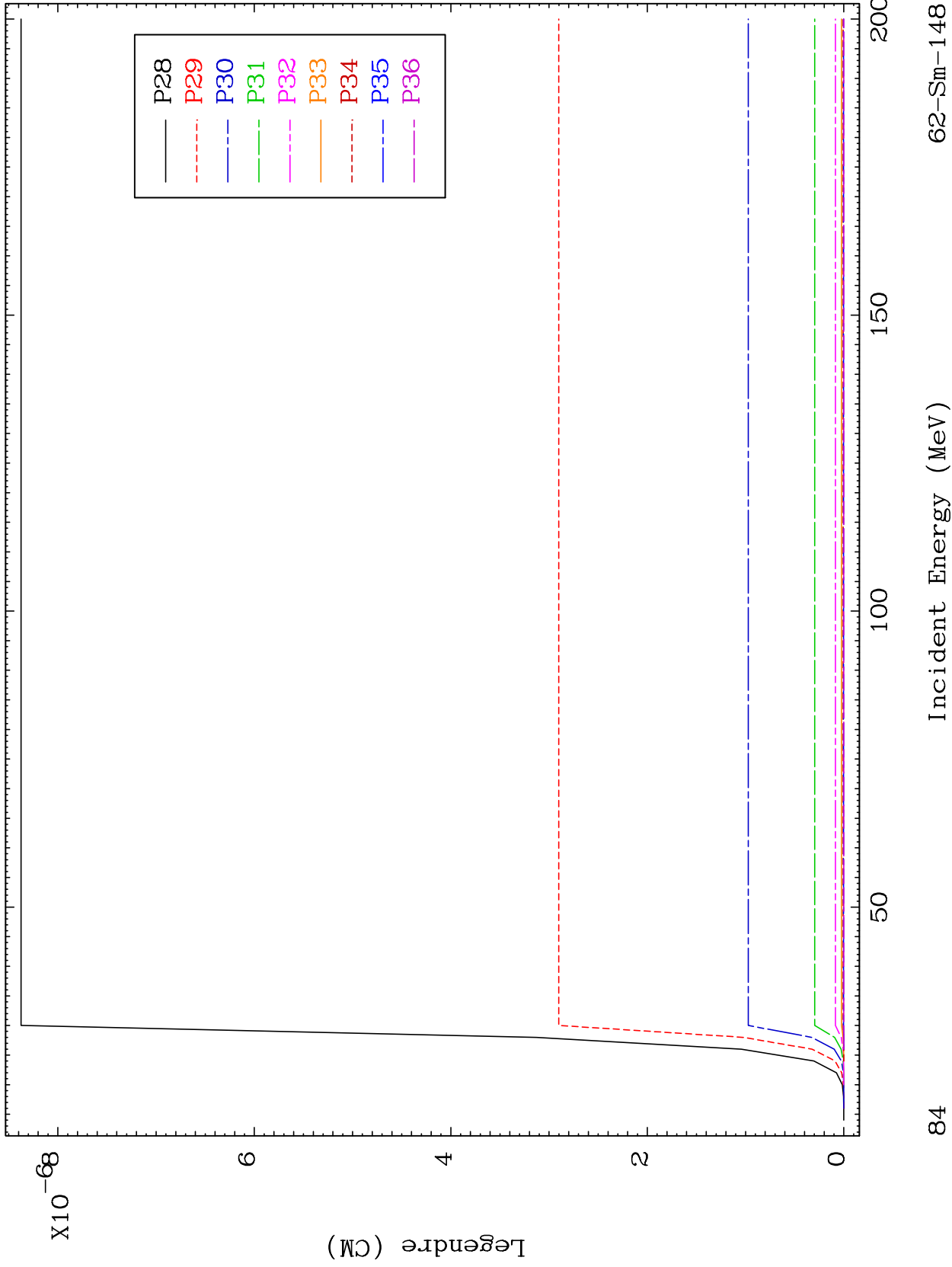
62-Sm-148



MAT 6237

1.972 MeV (n,n') Level  
Legendre Coefficients

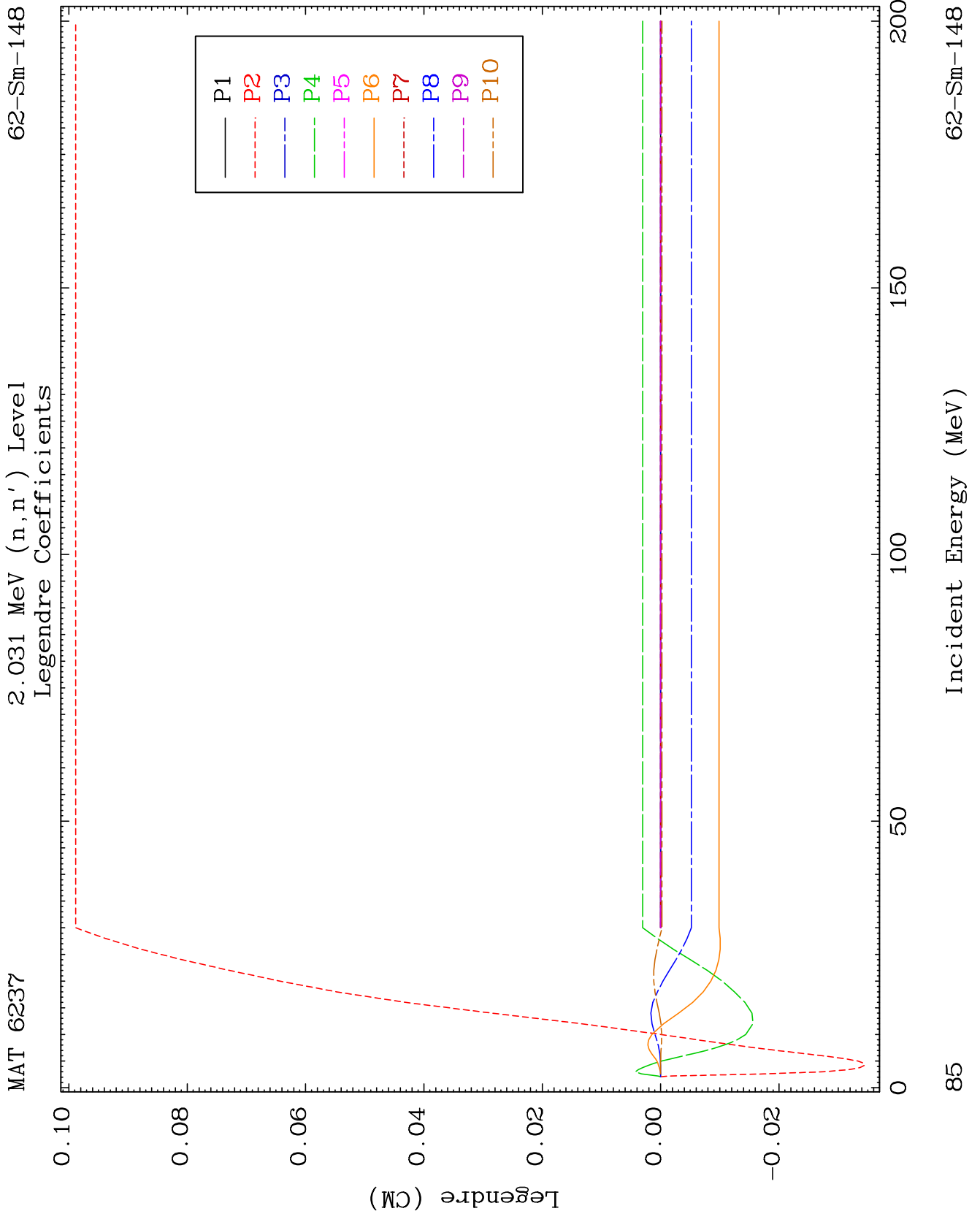
62-Sm-148

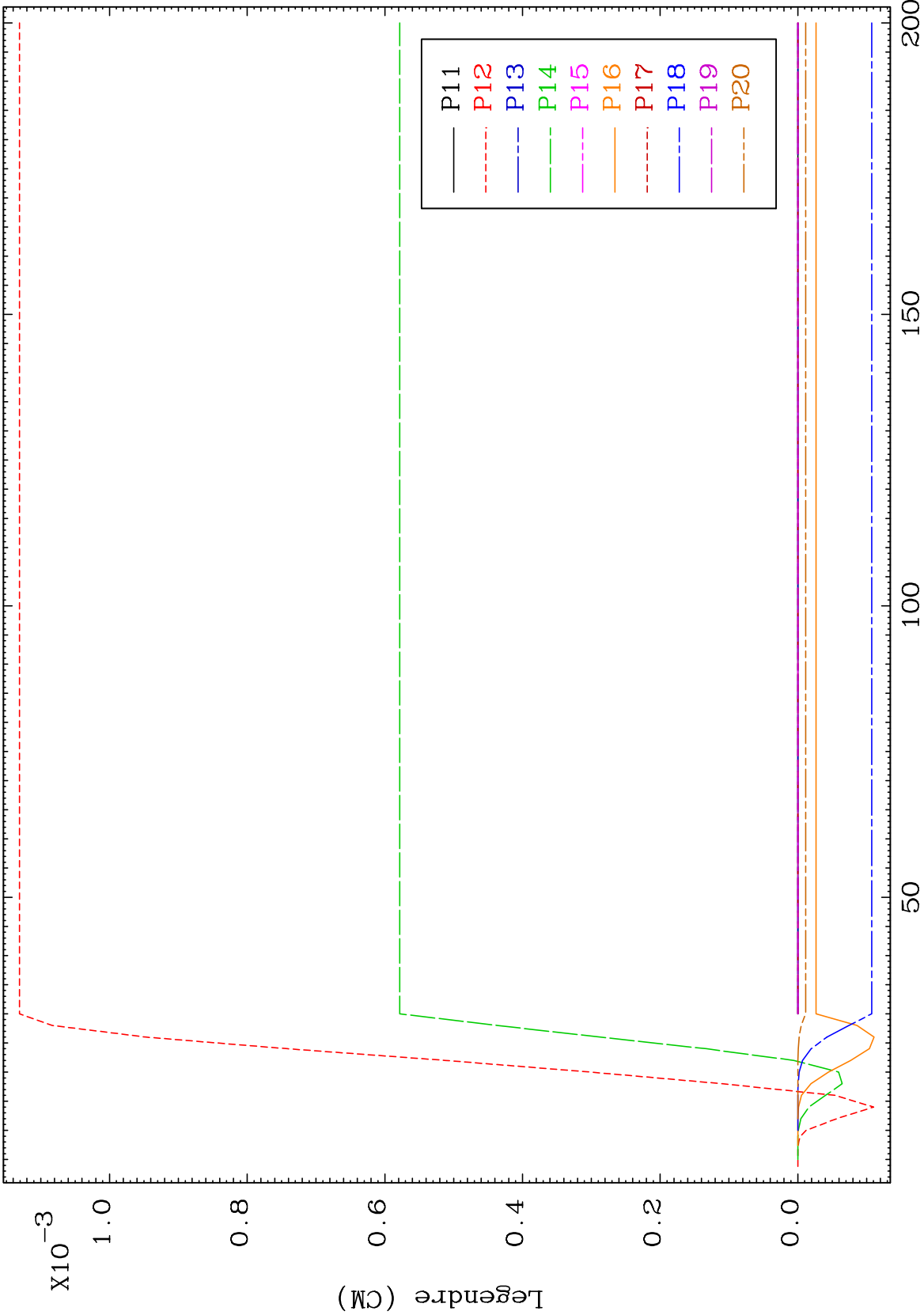


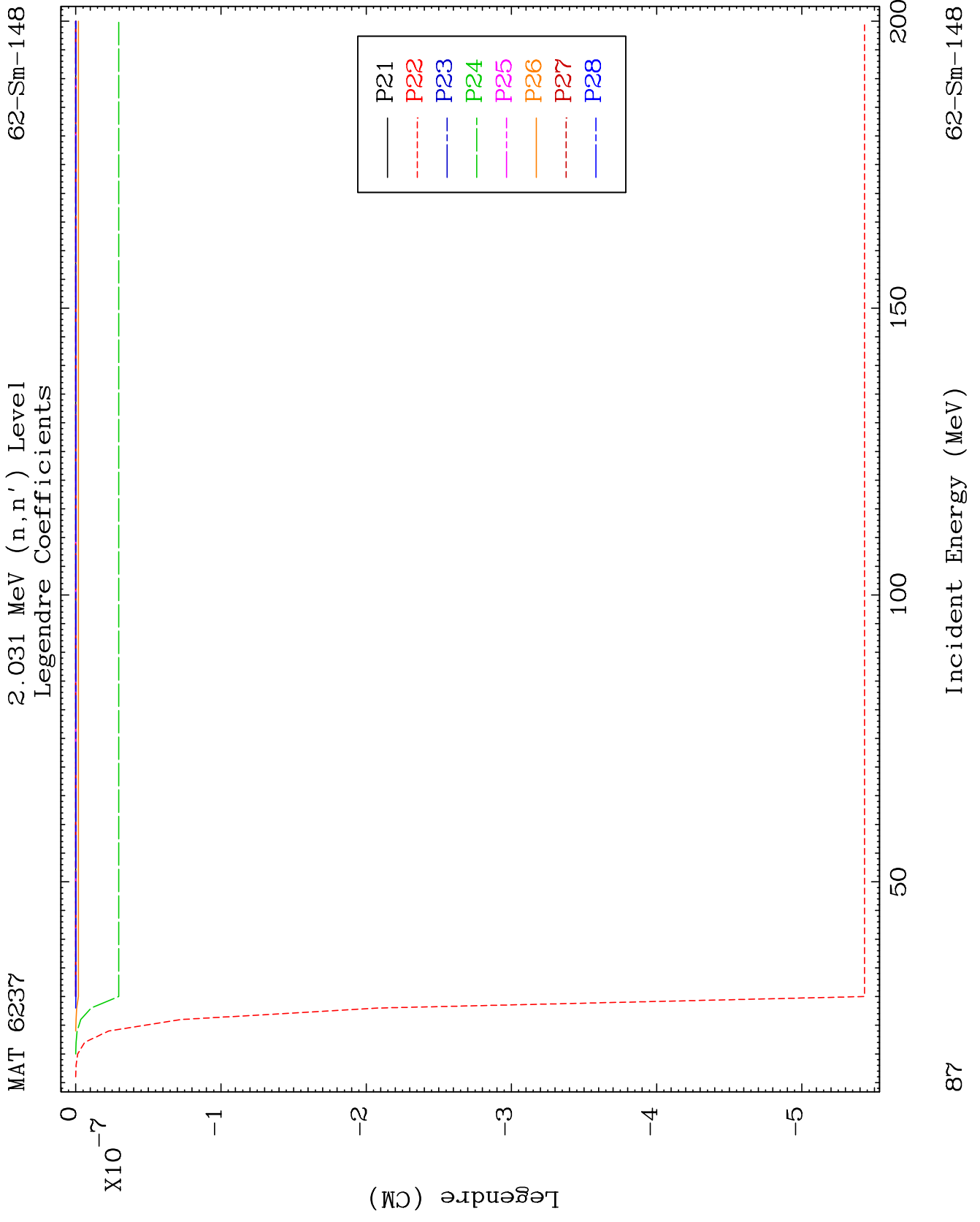
84

Incident Energy (MeV)

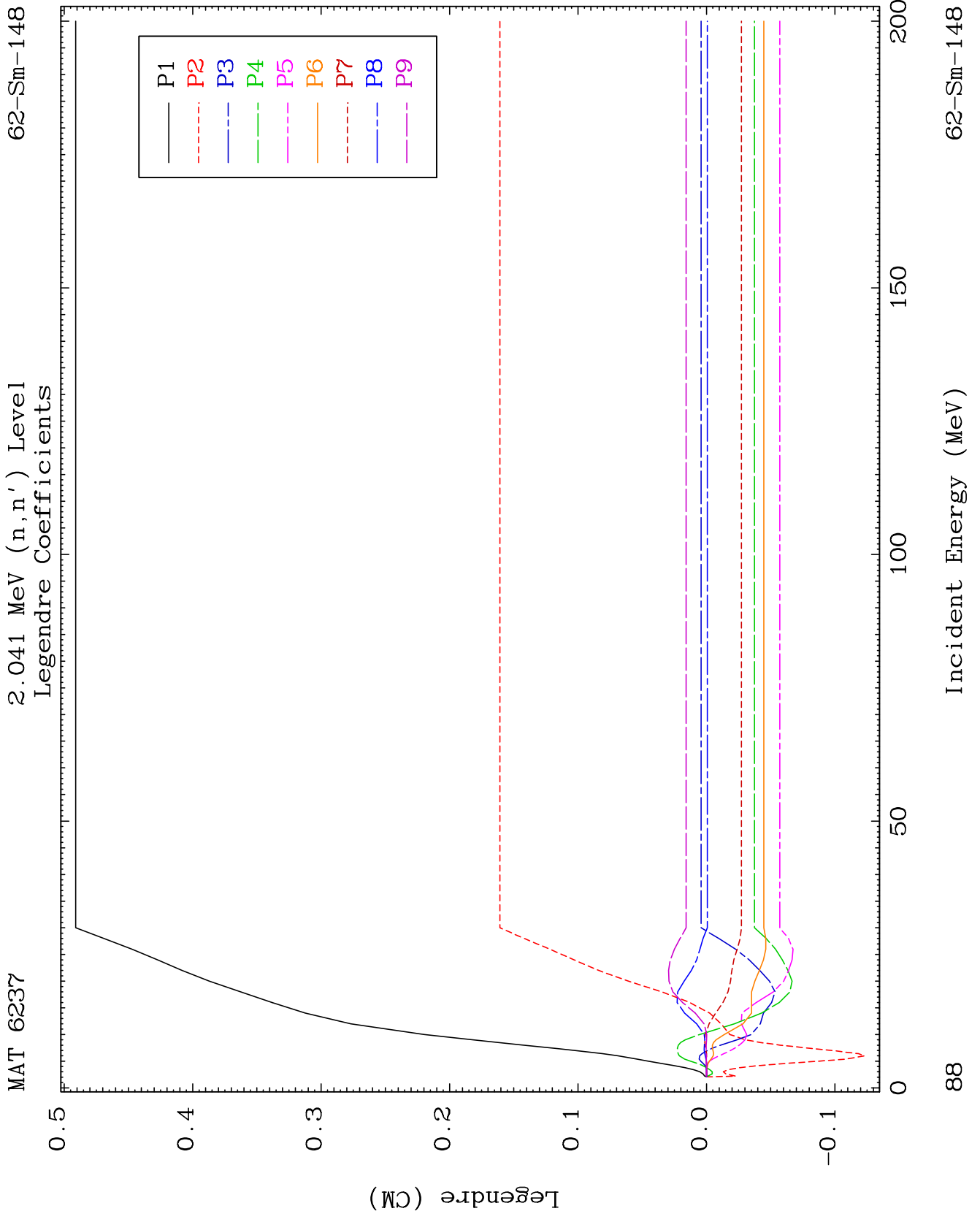
62-Sm-148

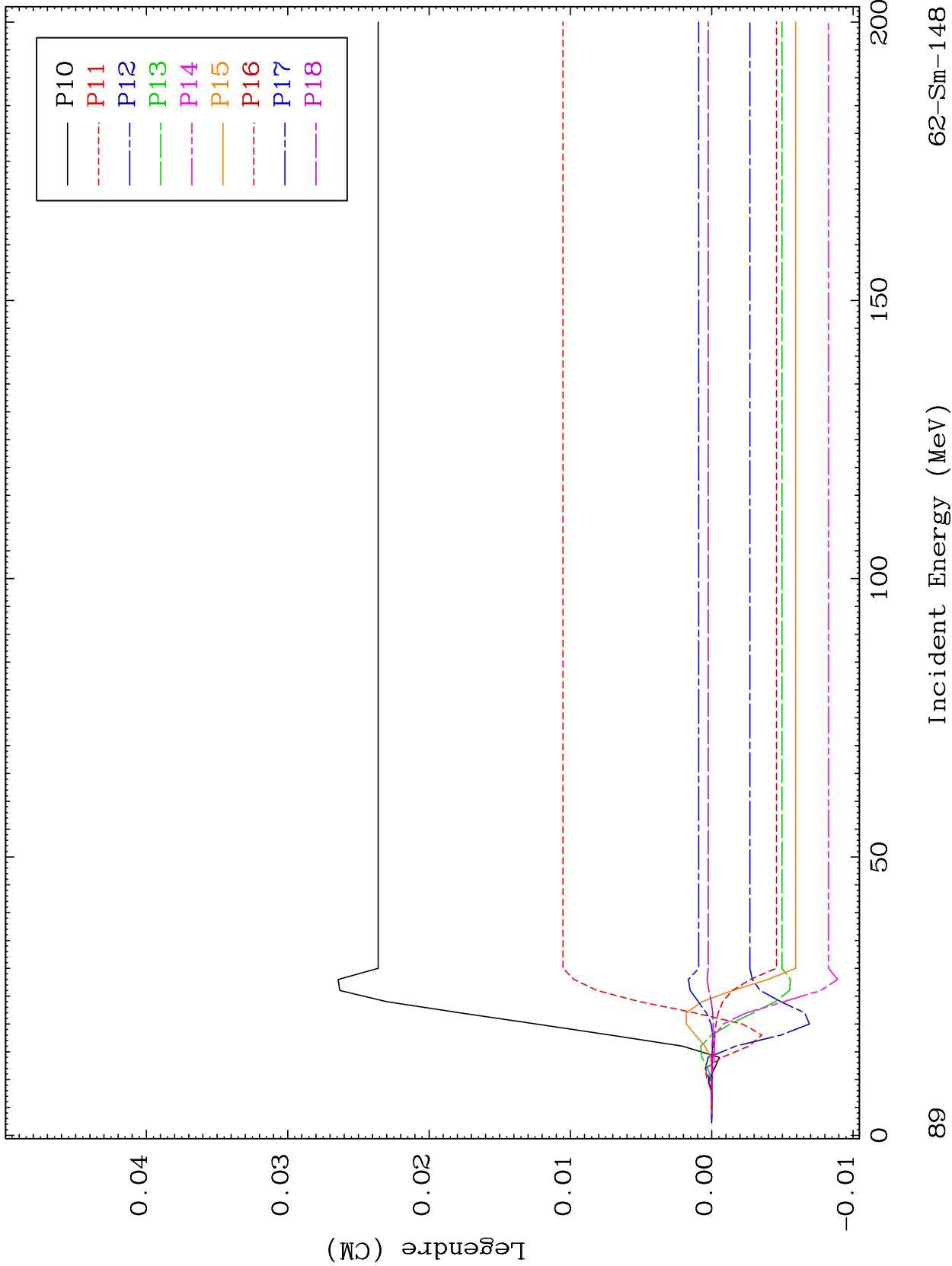








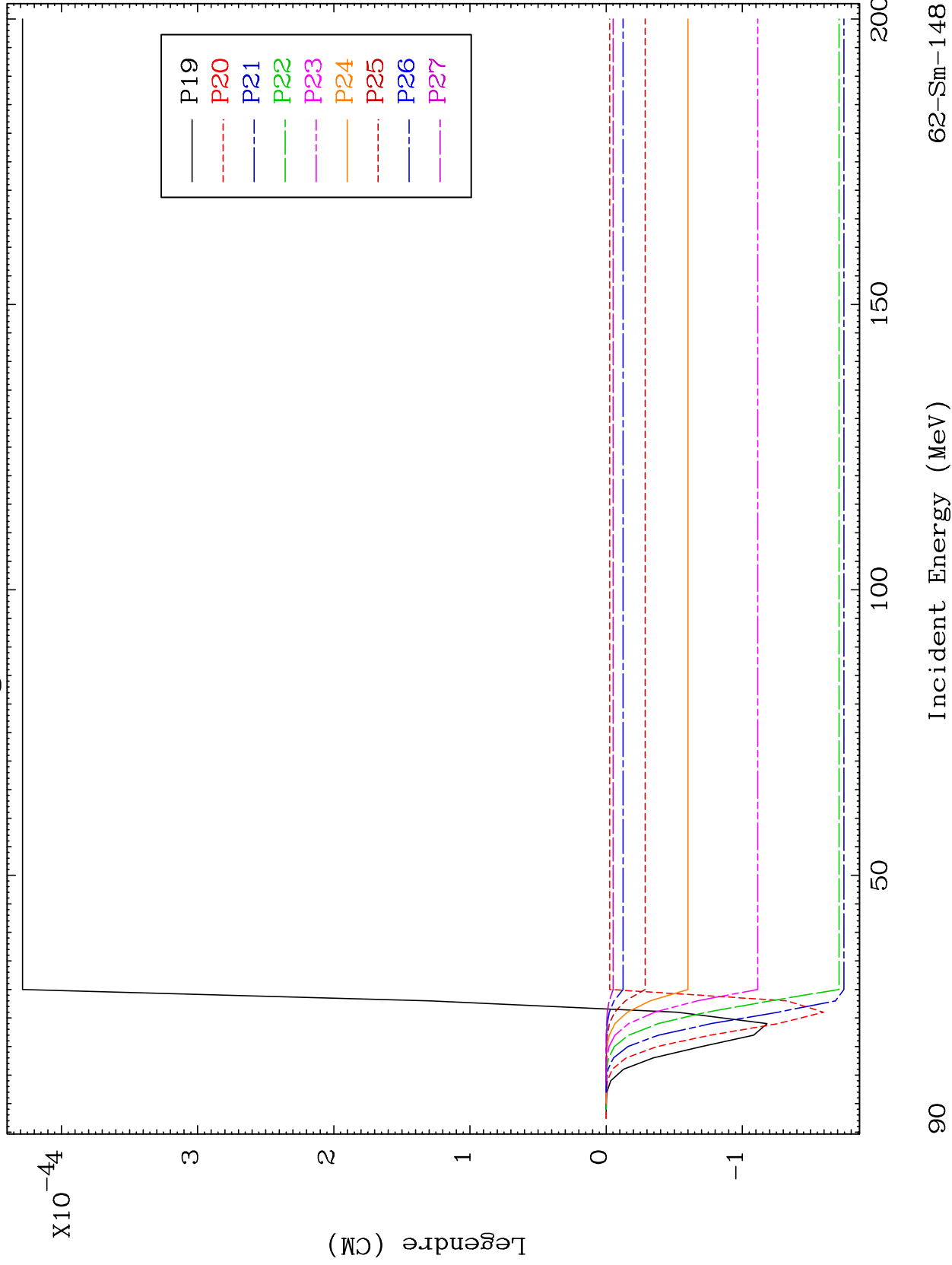




MAT 6237

2.041 MeV (n,n') Level  
Legendre Coefficients

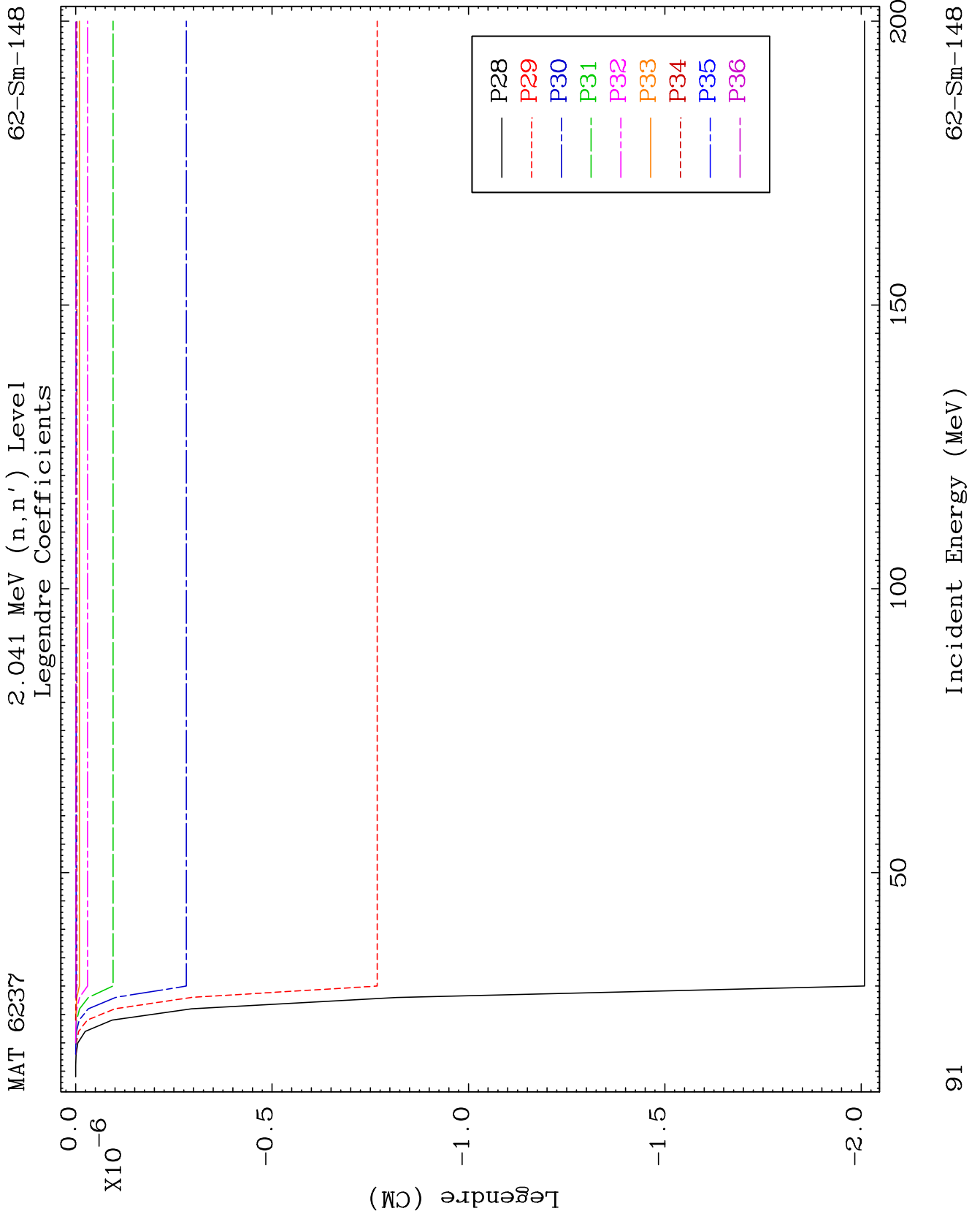
62-Sm-148

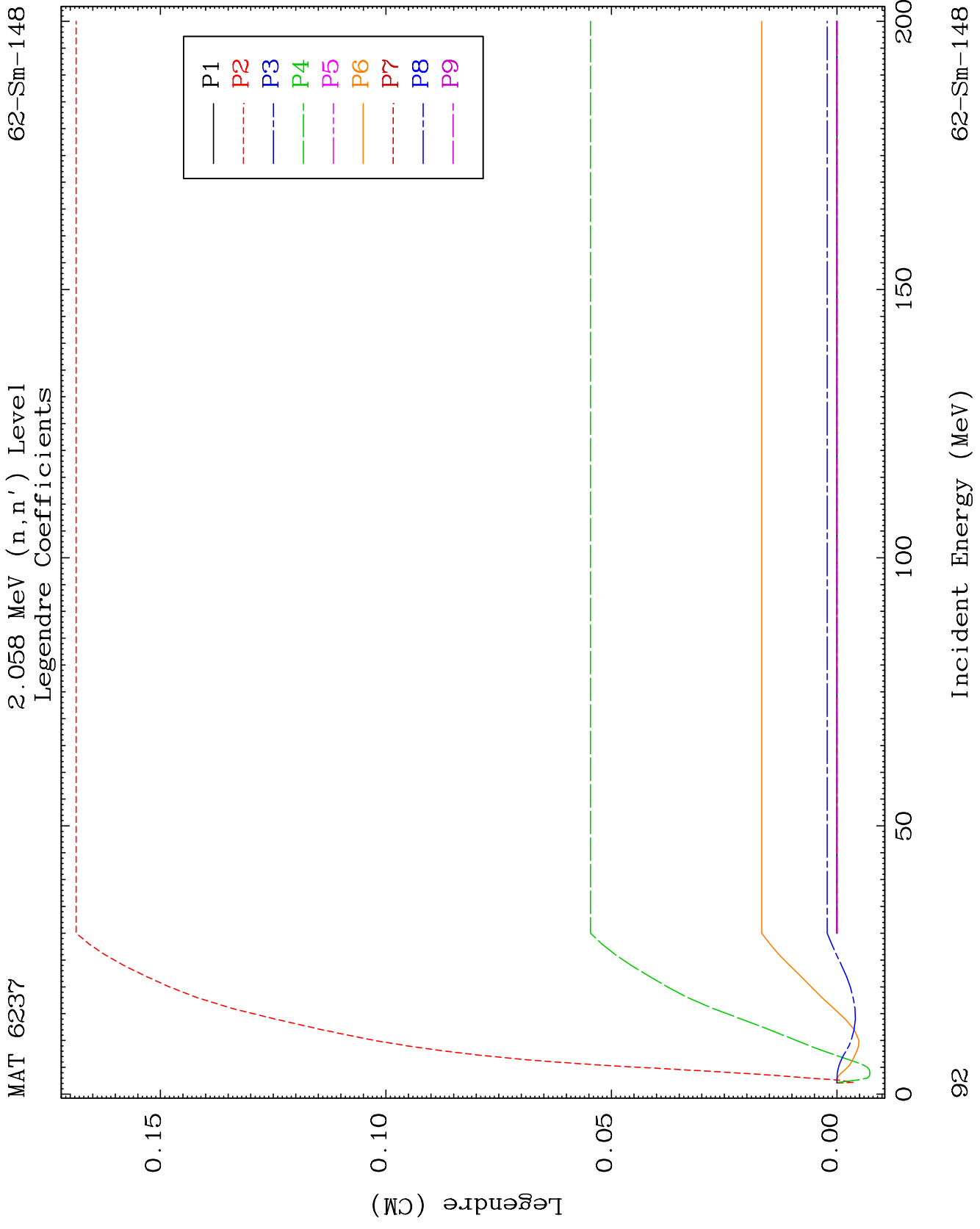


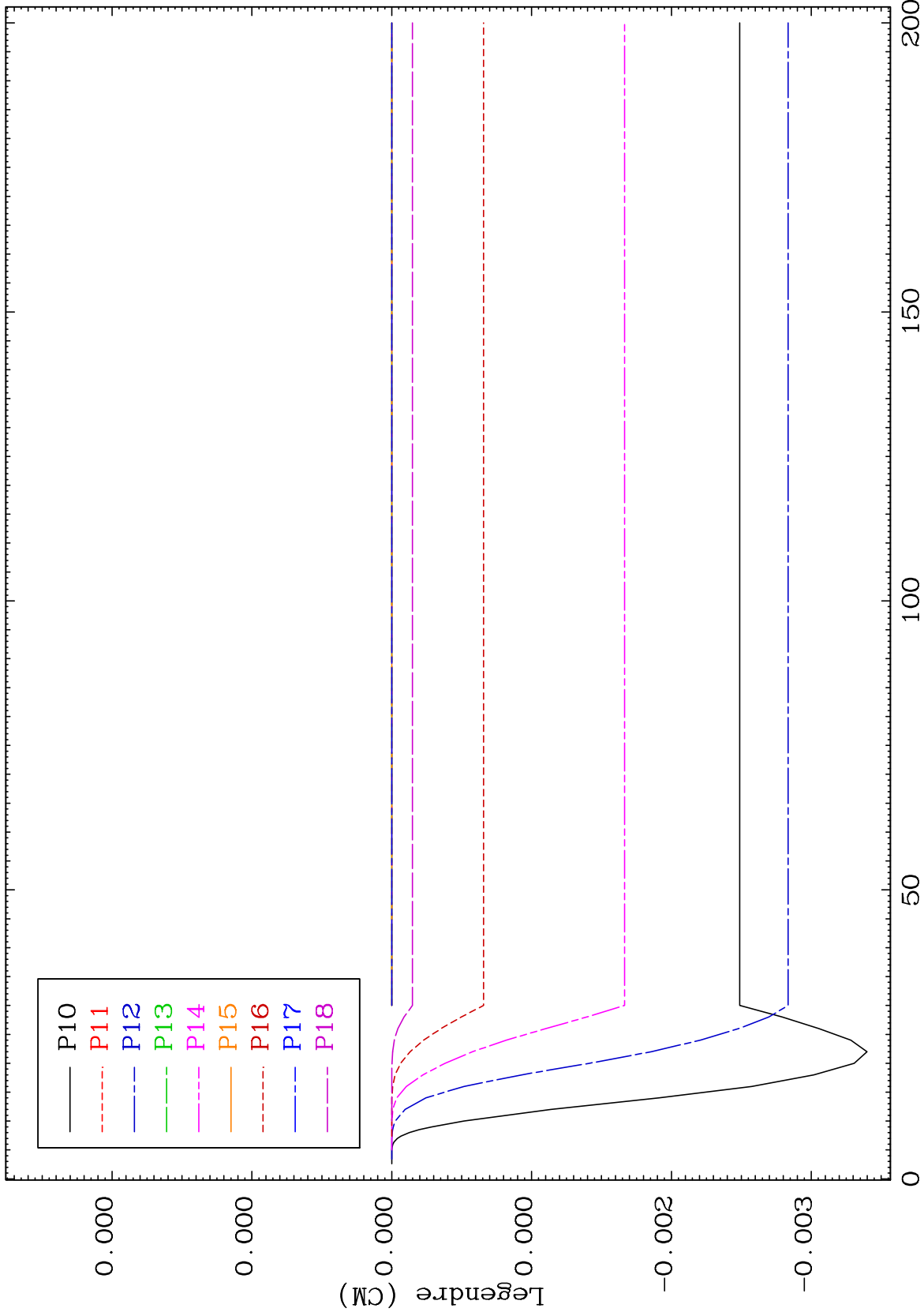
90

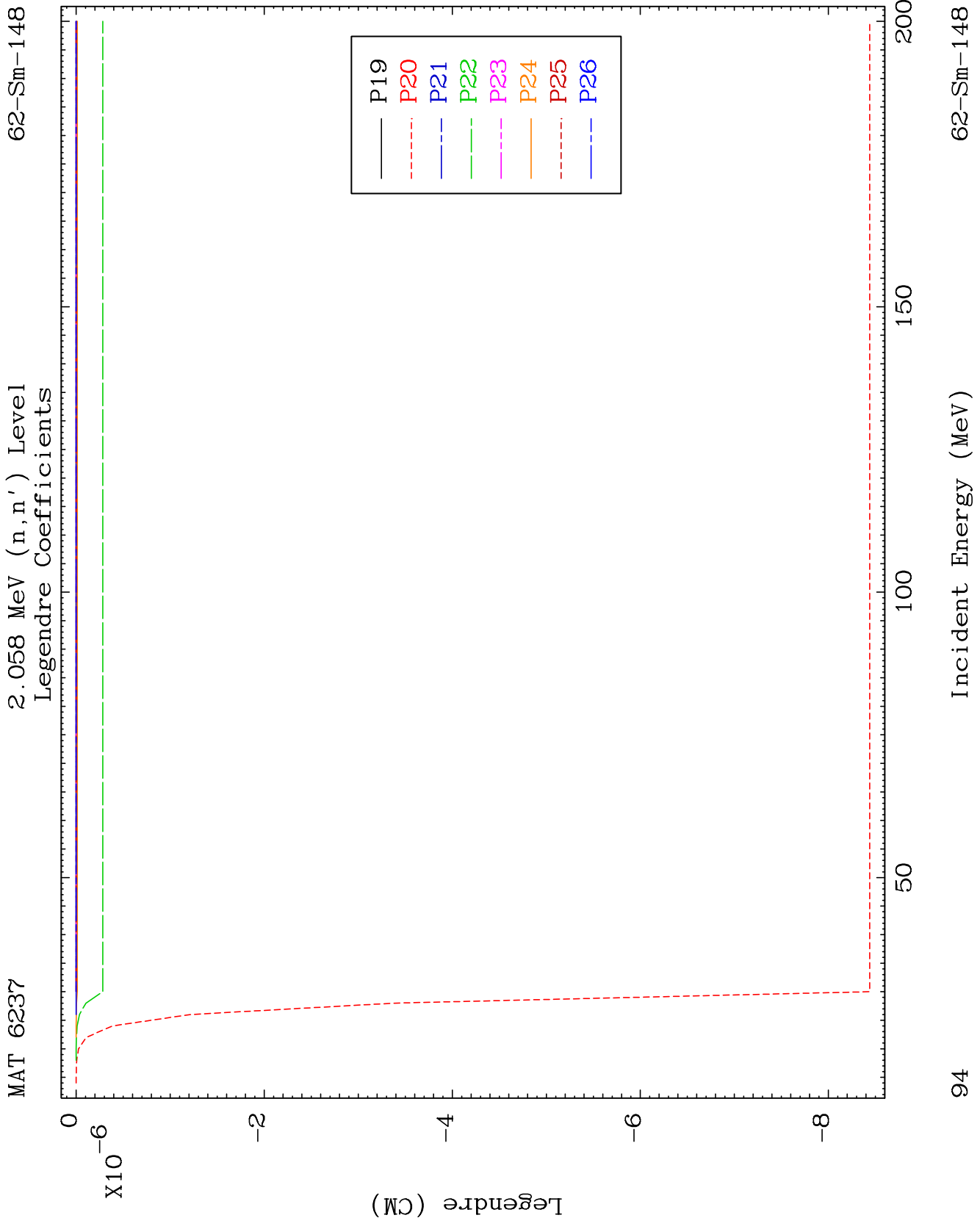
Incident Energy (MeV)

62-Sm-148





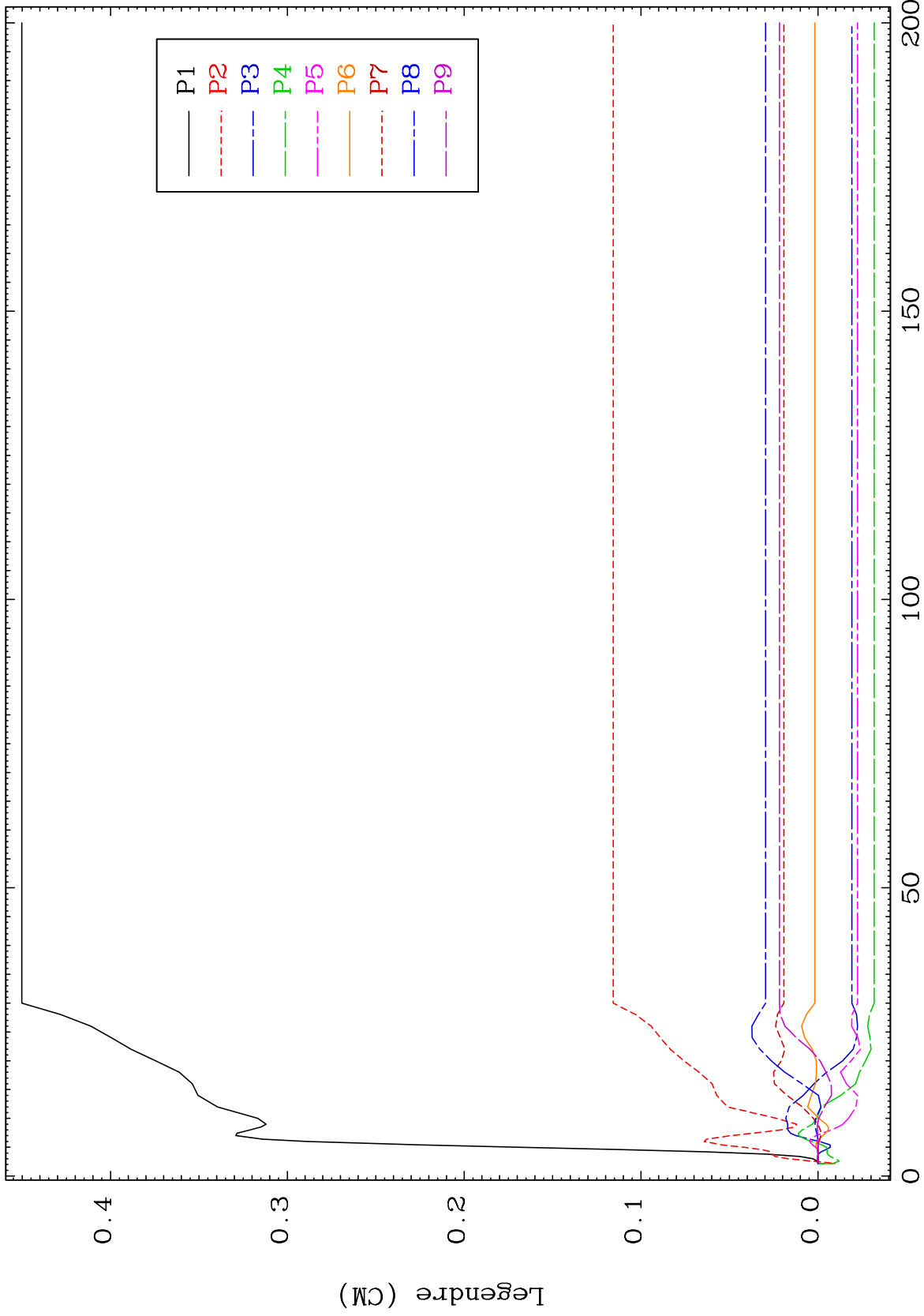




MAT 6237

2.096 MeV (n,n') Level  
Legendre Coefficients

62-Sm-148



95

Incident Energy (MeV)

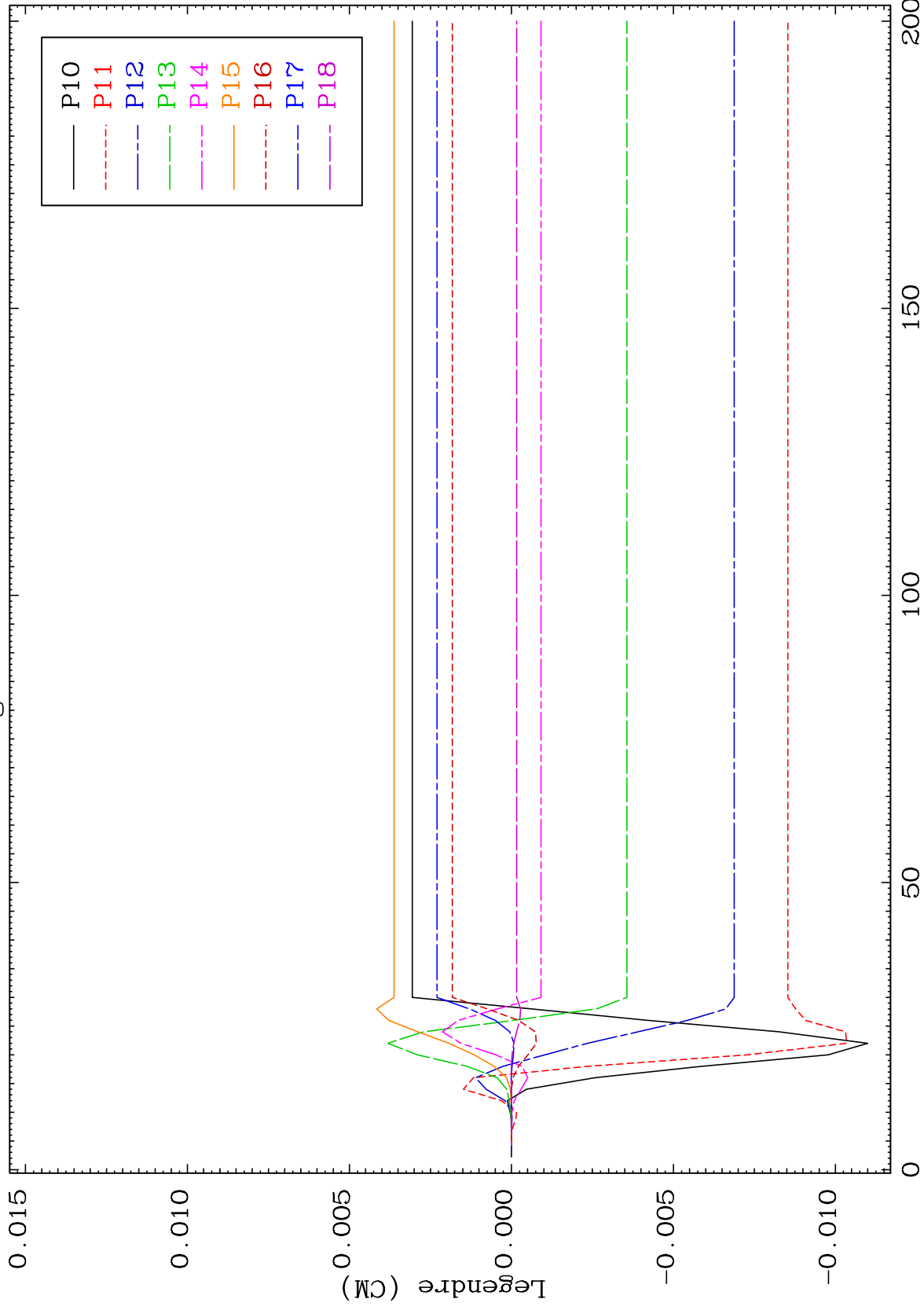
62-Sm-148



MAT 6237

2.096 MeV (n,n') Level  
Legendre Coefficients

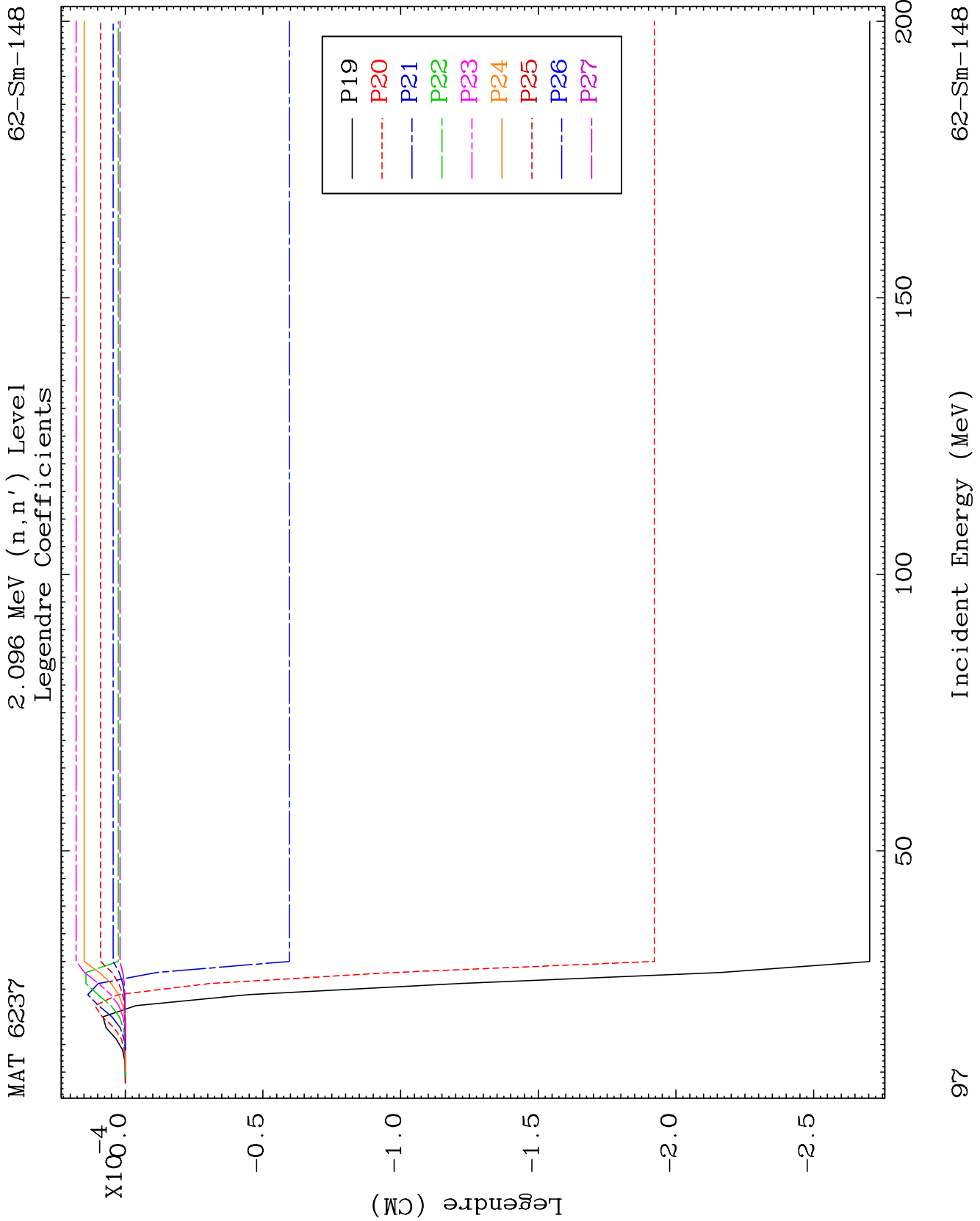
62-Sm-148



96

Incident Energy (MeV)

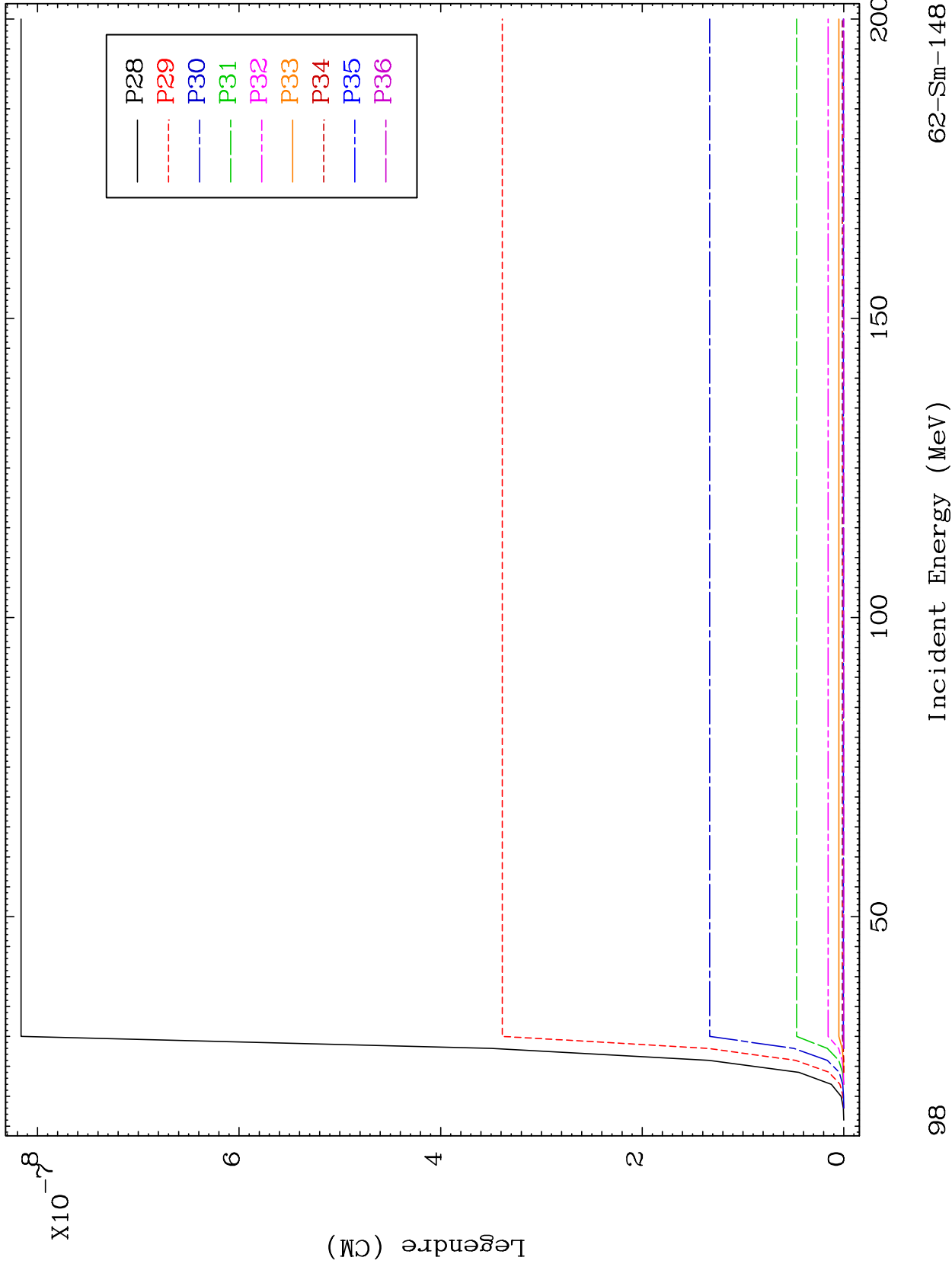
62-Sm-148



MAT 6237

2.096 MeV (n,n') Level  
Legendre Coefficients

62-Sm-148



98

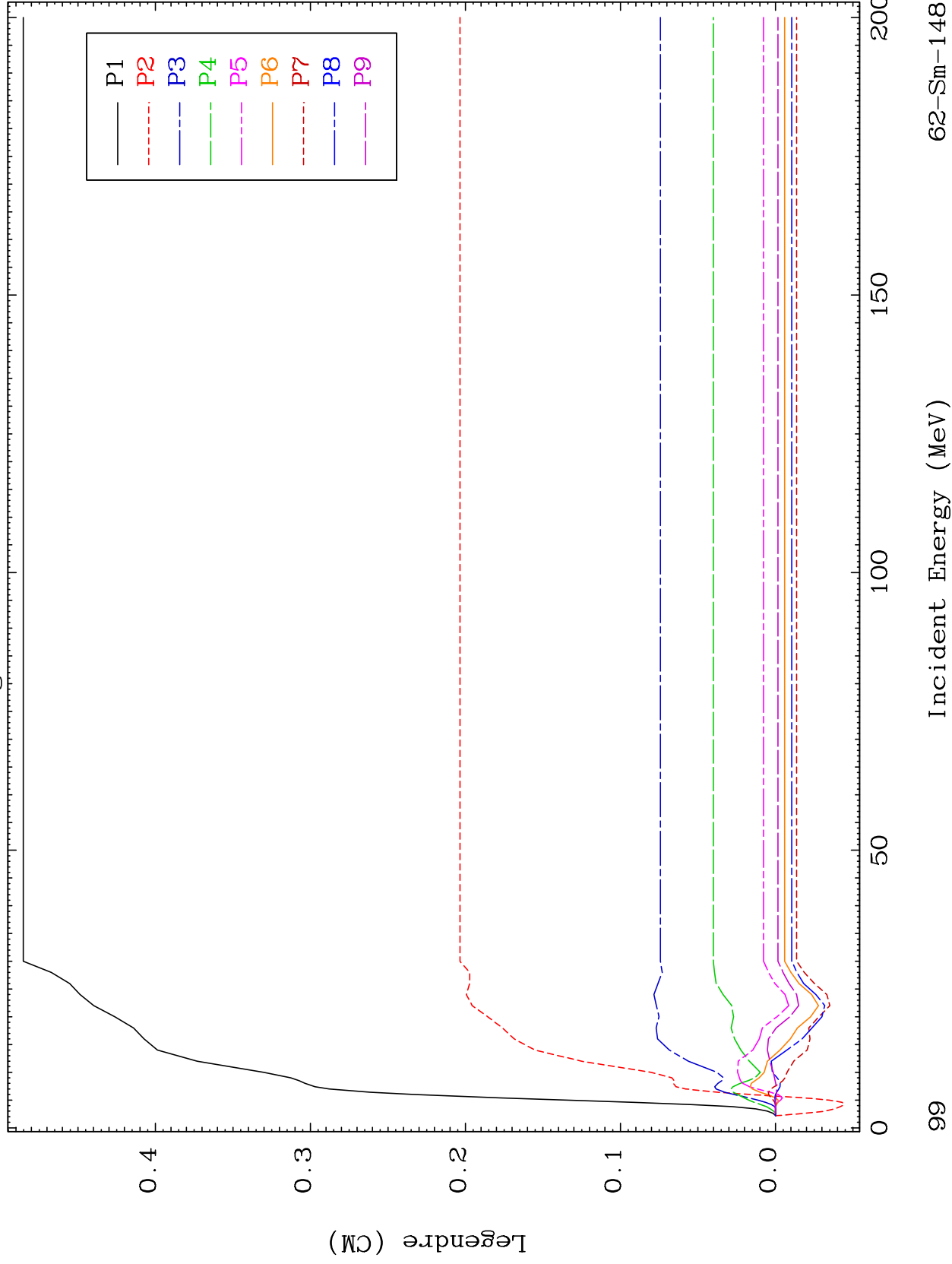
Incident Energy (MeV)

62-Sm-148

MAT 6237

2.111 MeV (n,n') Level  
Legendre Coefficients

62-Sm-148



62-Sm-148

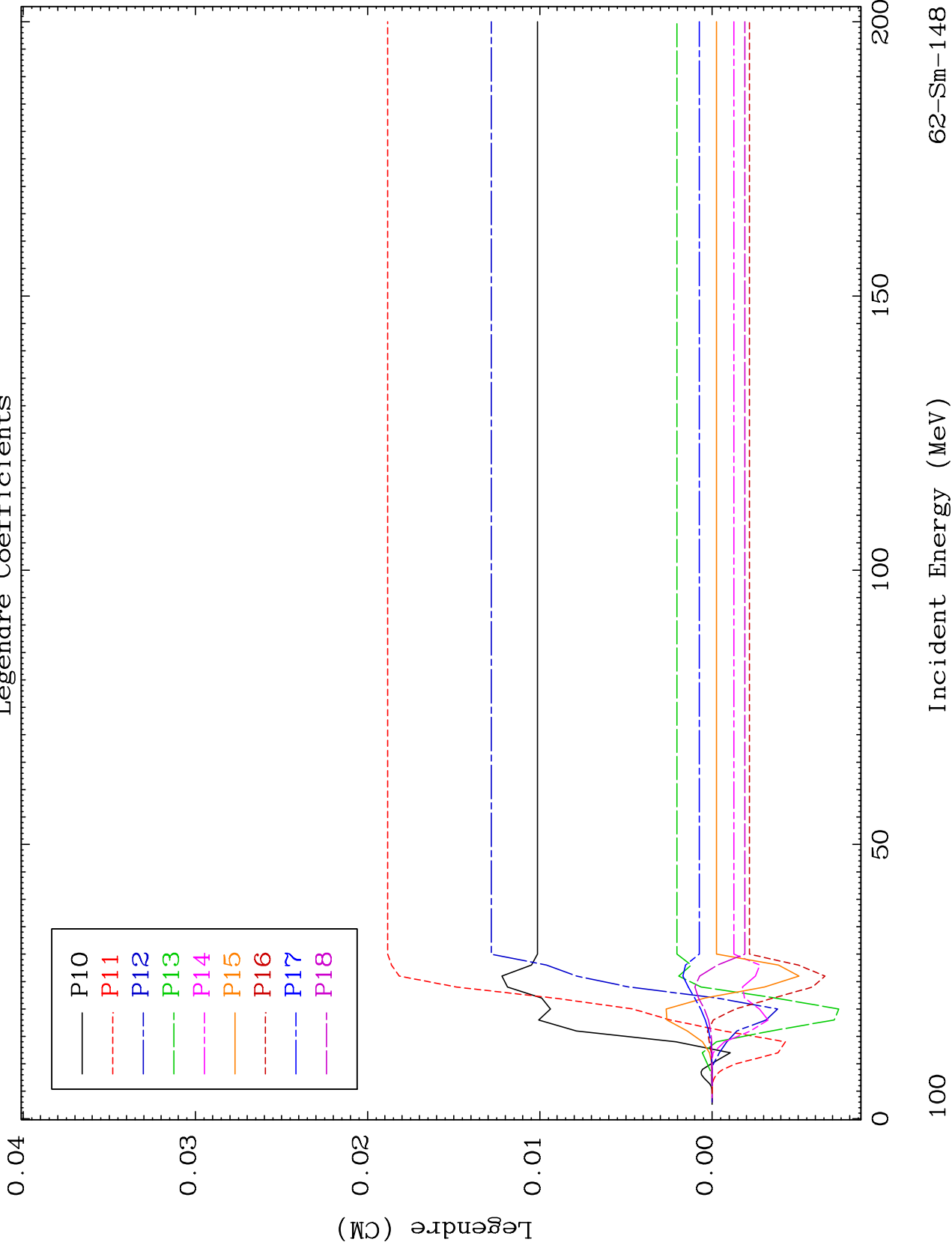
Incident Energy (MeV)

99

MAT 6237

2.111 MeV (n, n') Level  
Legendre Coefficients

62-Sm-148



62-Sm-148

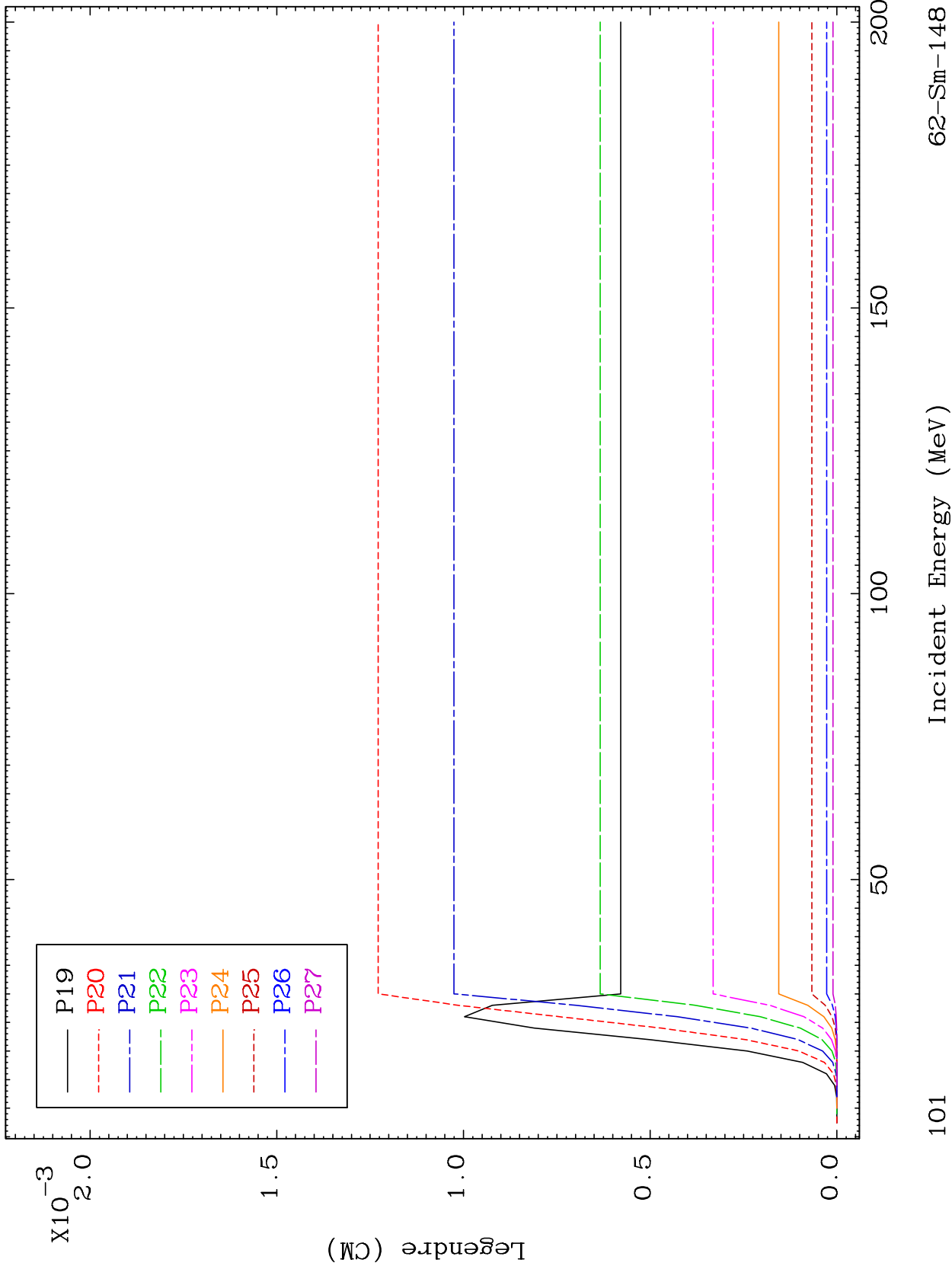
Incident Energy (MeV)

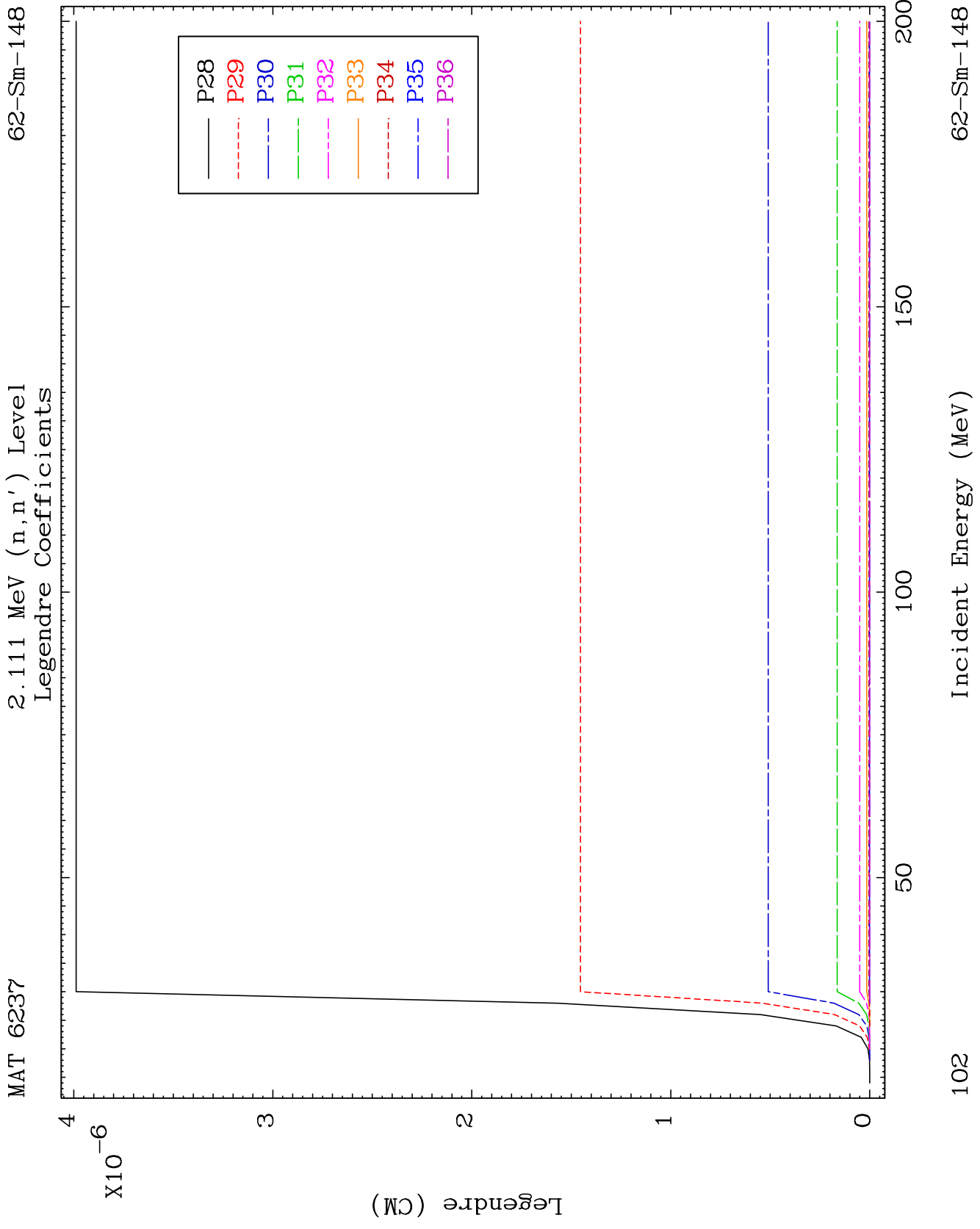
100

MAT 6237

2.111 MeV (n,n') Level  
Legendre Coefficients

62-Sm-148

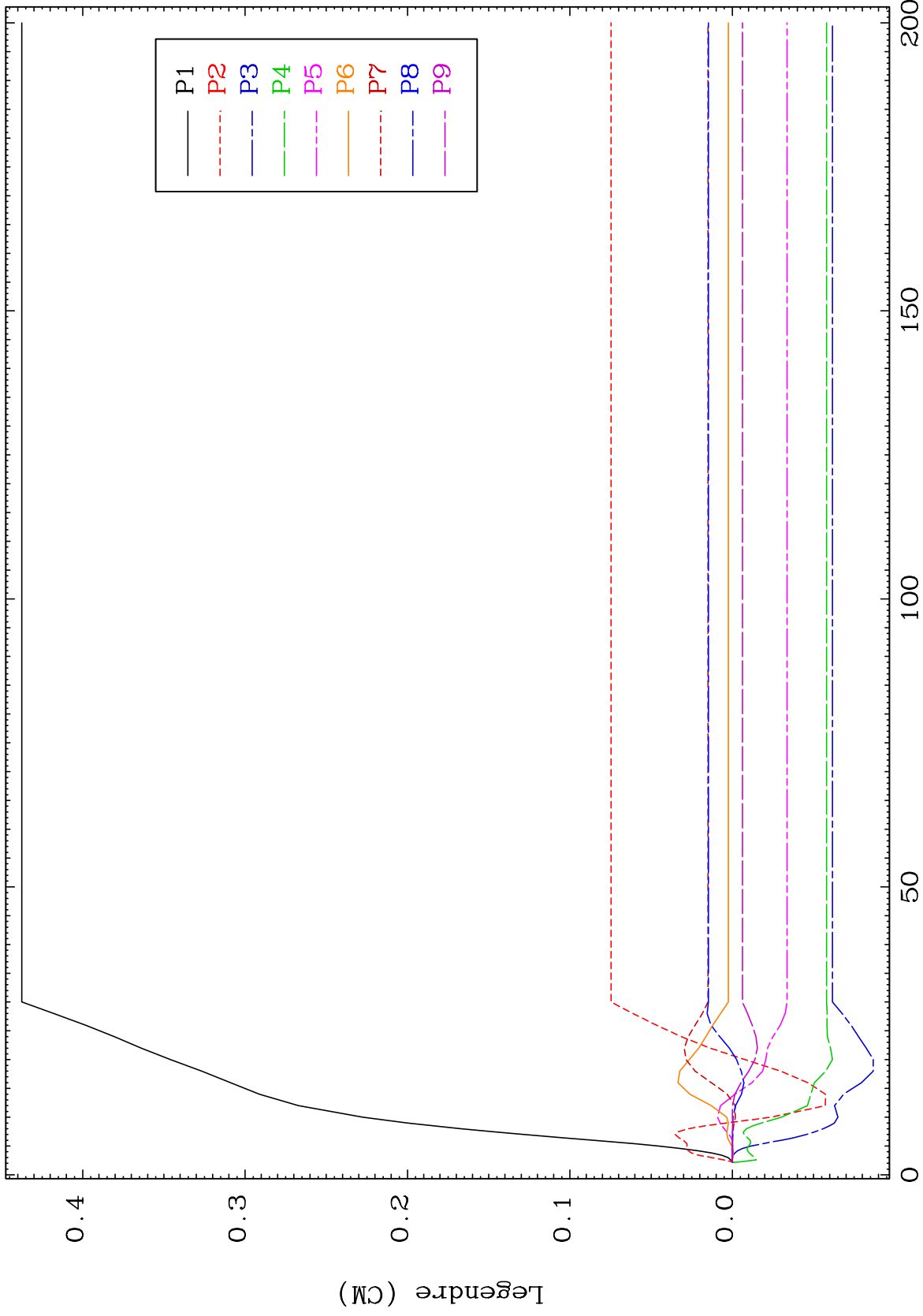




MAT 6237

2.129 MeV (n, n') Level  
Legendre Coefficients

62-Sm-148



62-Sm-148

Incident Energy (MeV)

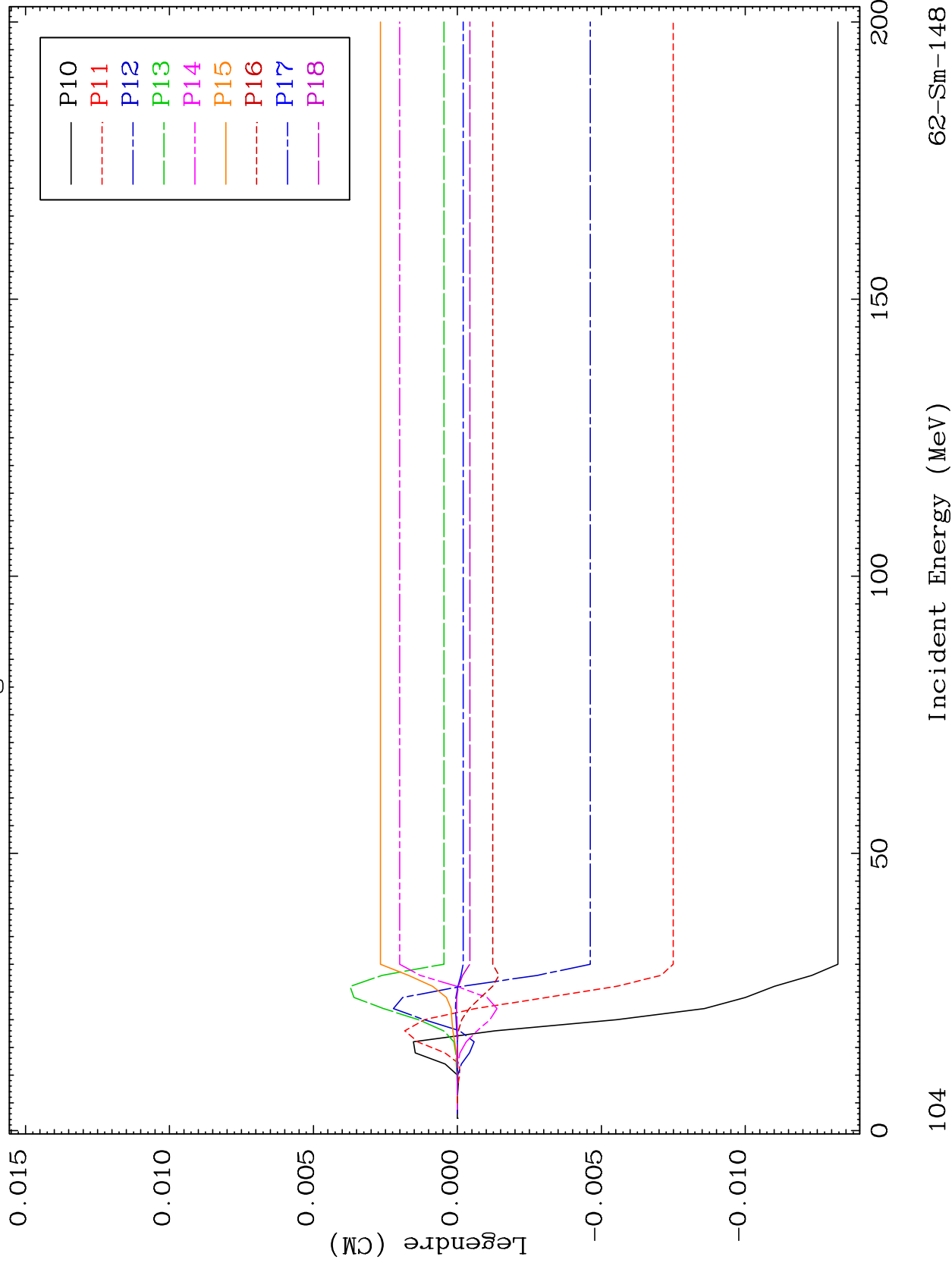
103



MAT 6237

2.129 MeV (n,n') Level  
Legendre Coefficients

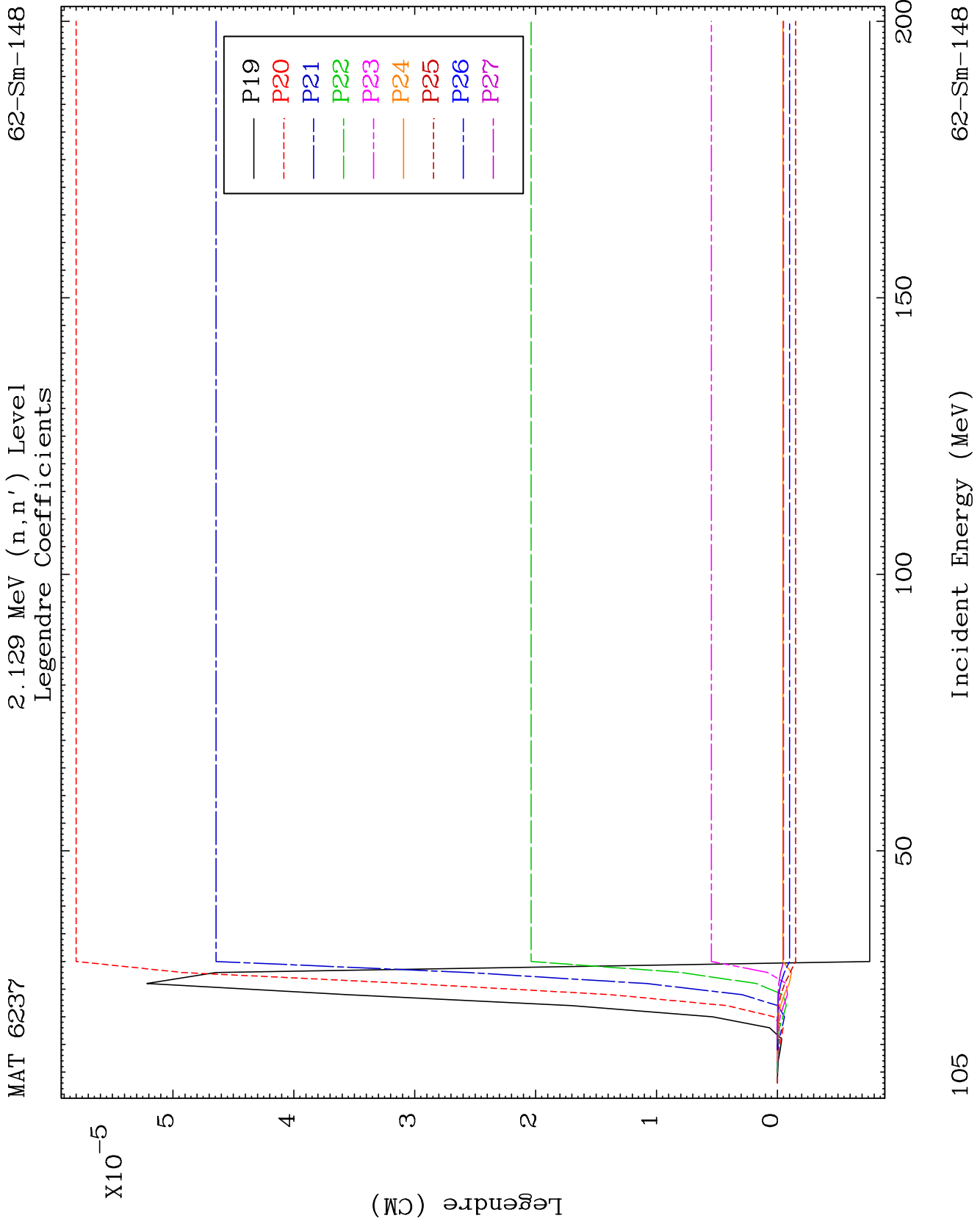
62-Sm-148

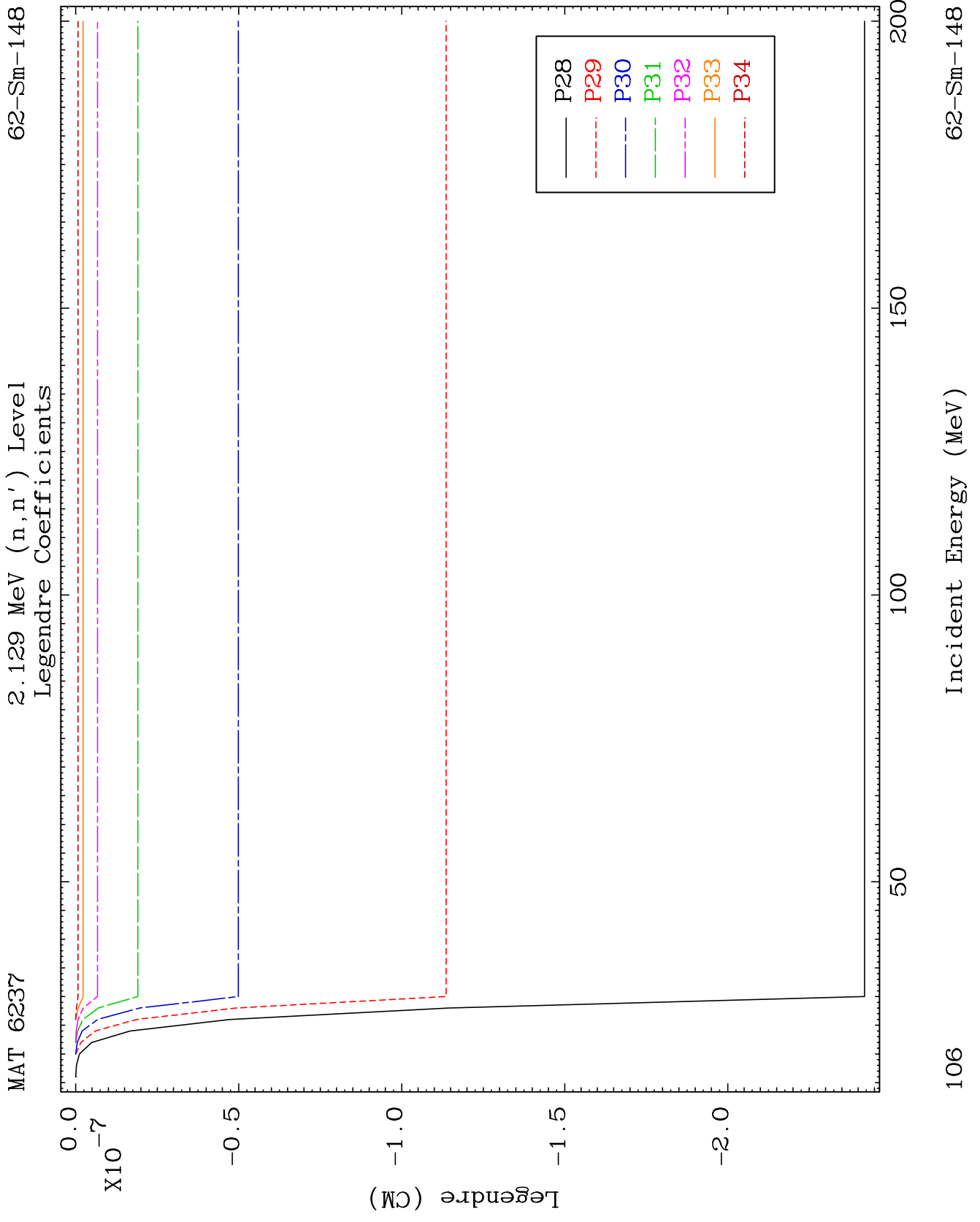


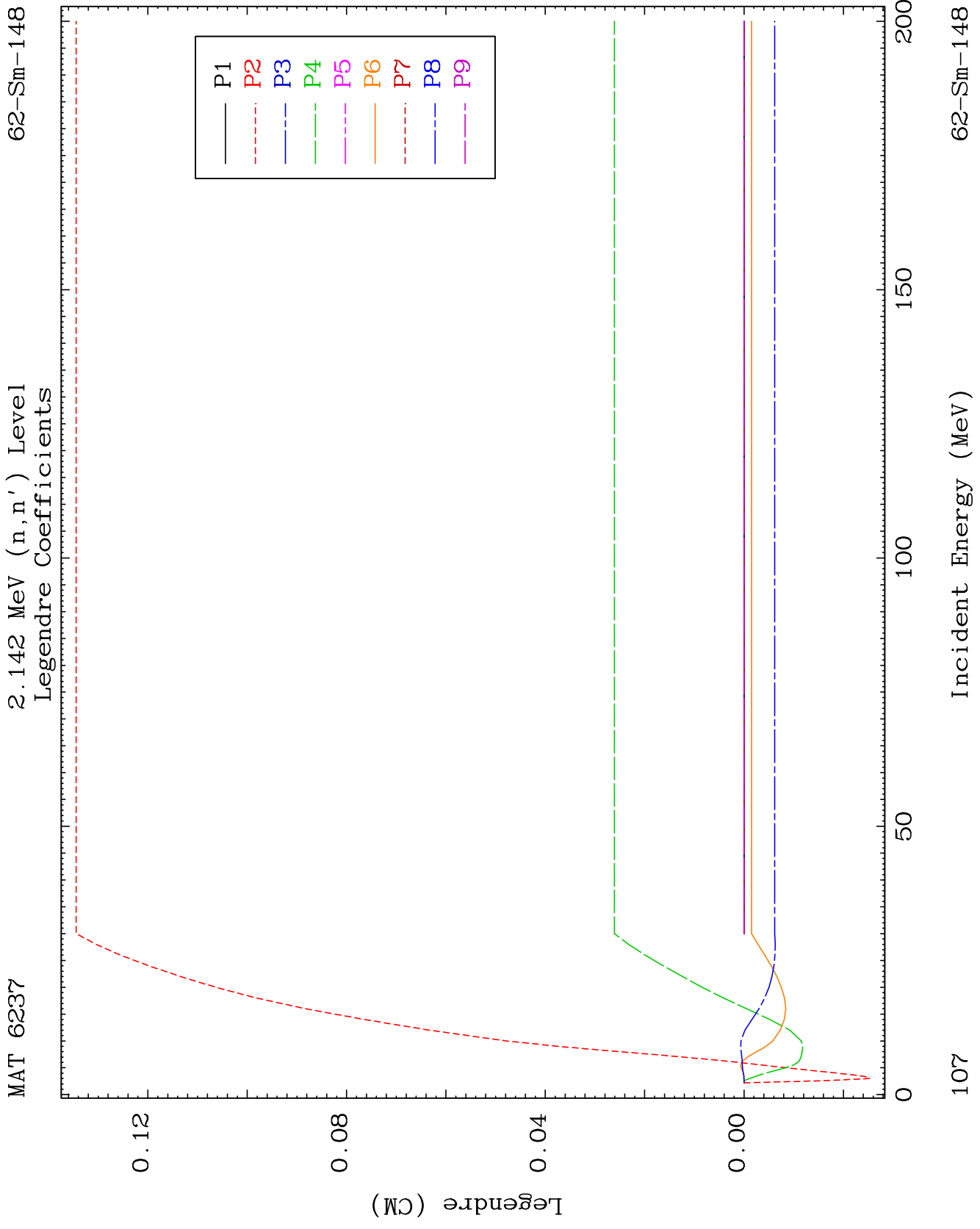
104

Incident Energy (MeV)

62-Sm-148



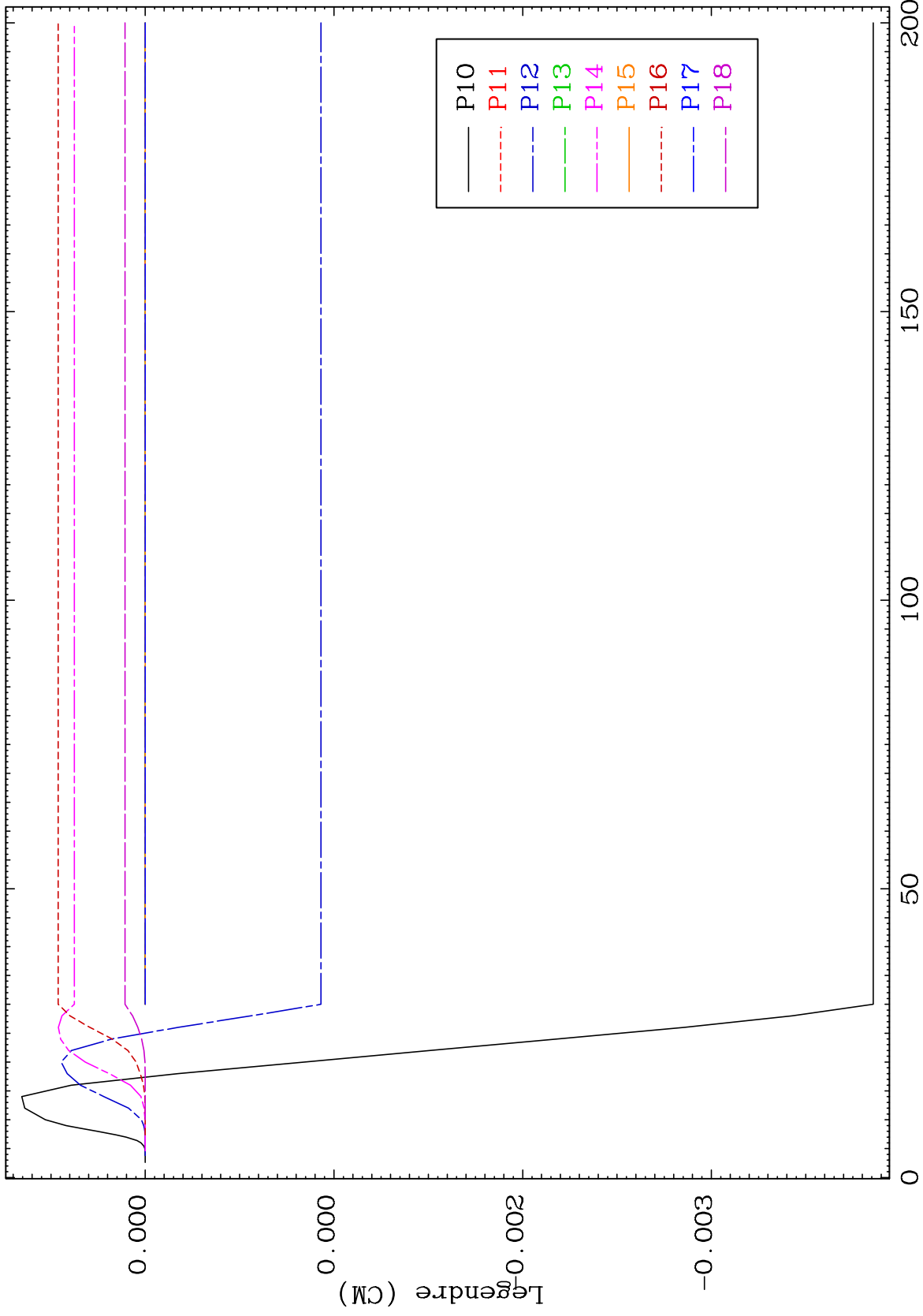




MAT 6237

2.142 MeV (n,n') Level  
Legendre Coefficients

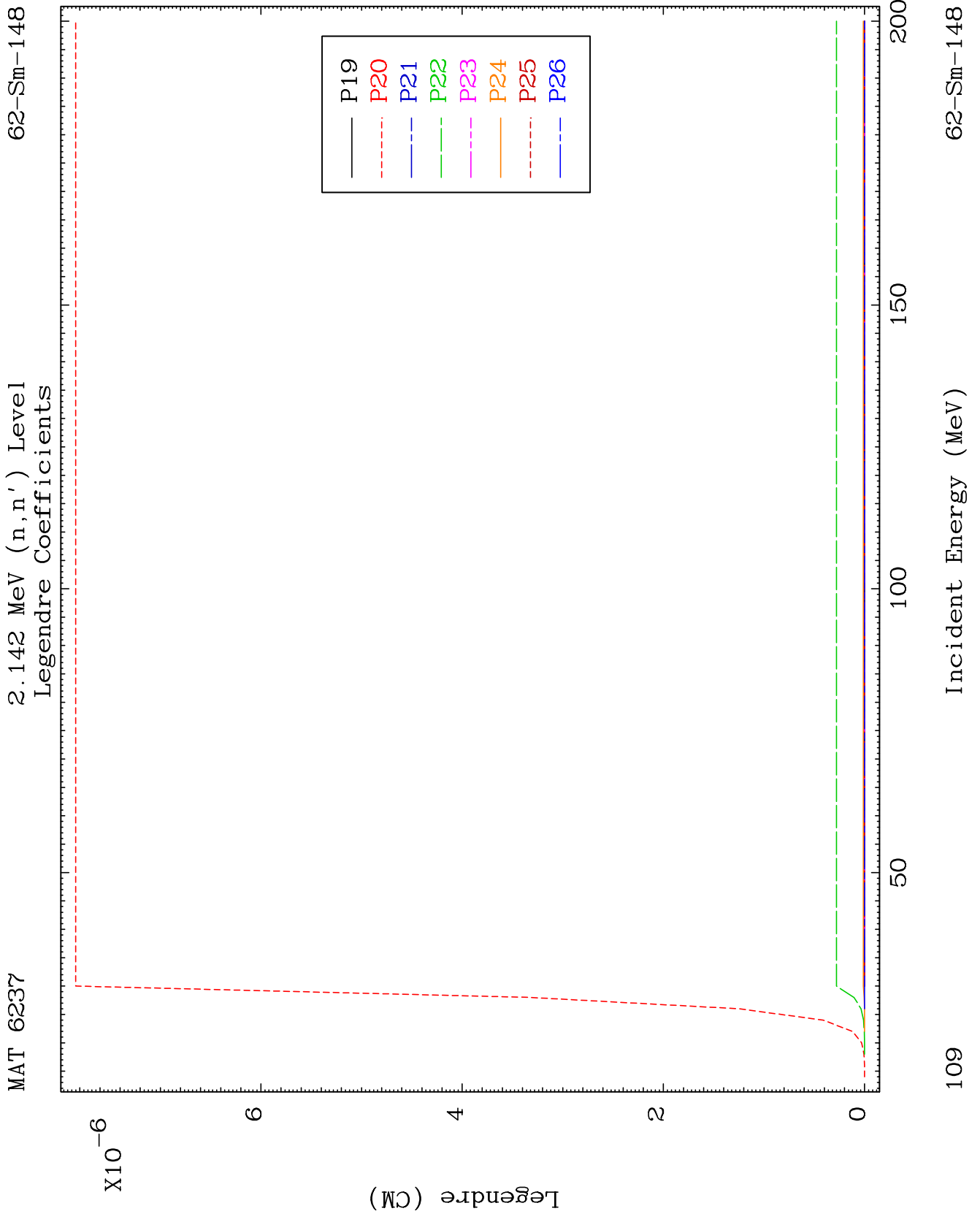
62-Sm-148



108

Incident Energy (MeV)

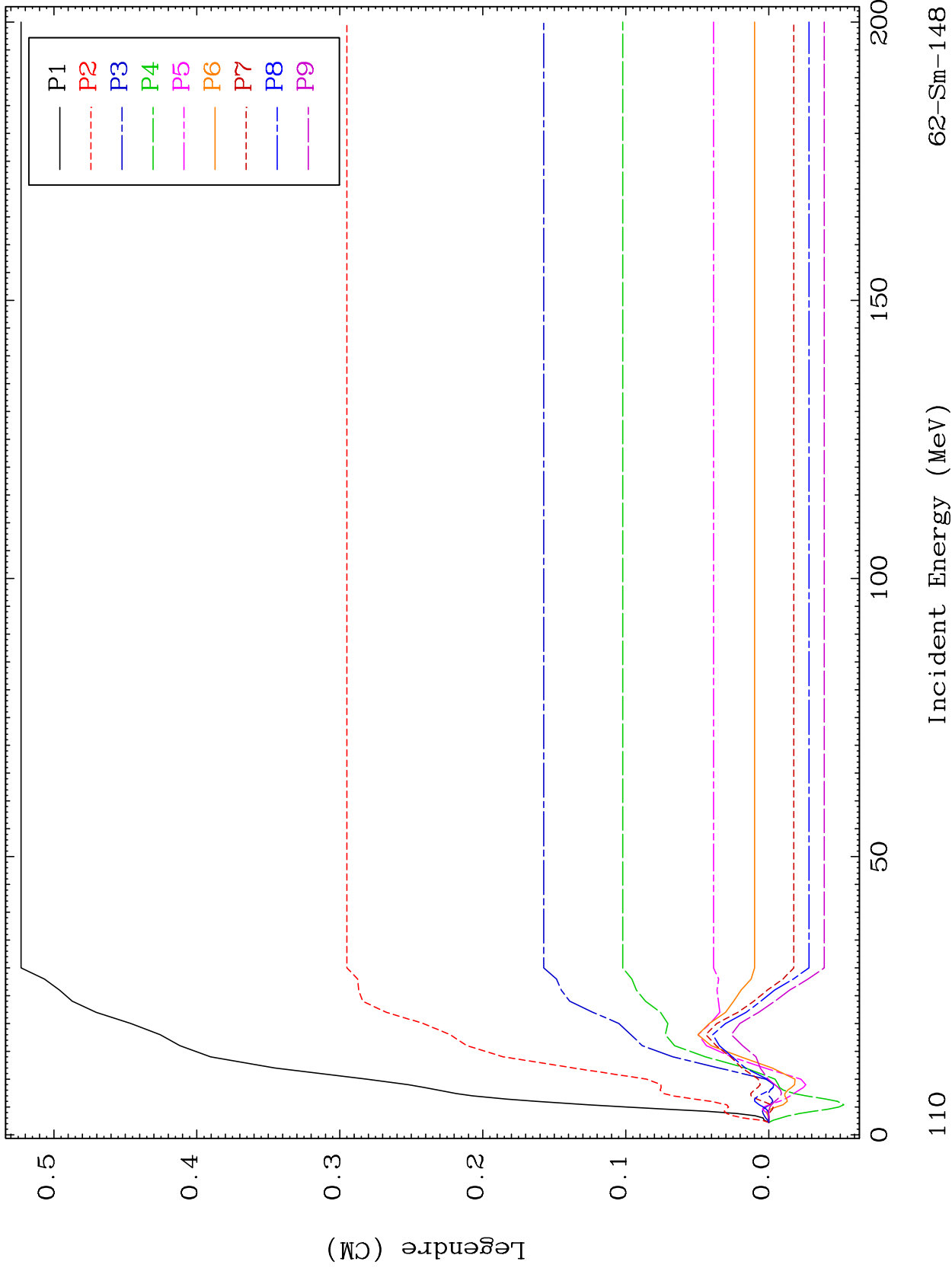
62-Sm-148



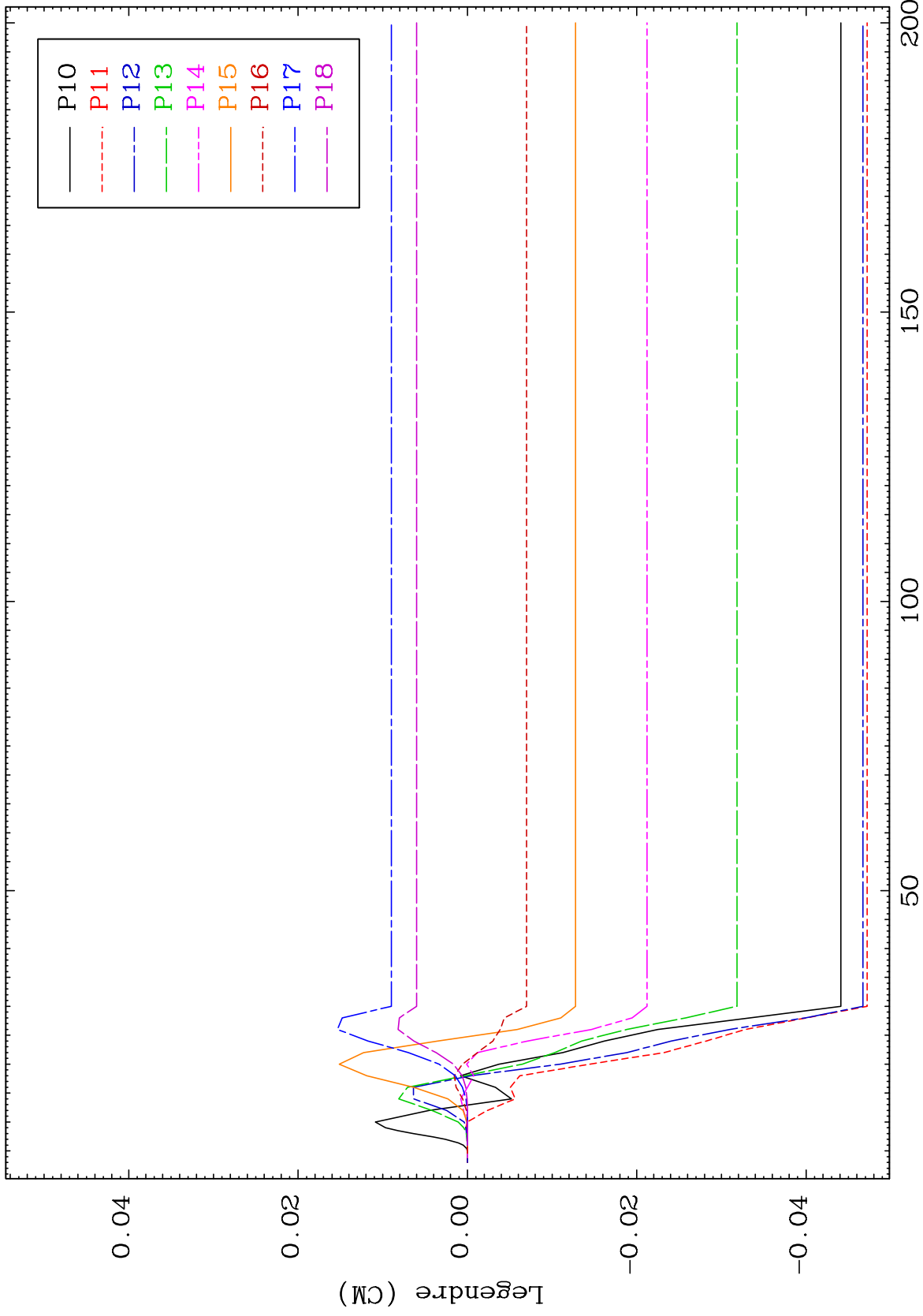
MAT 6237

2.146 MeV (n,n') Level  
Legendre Coefficients

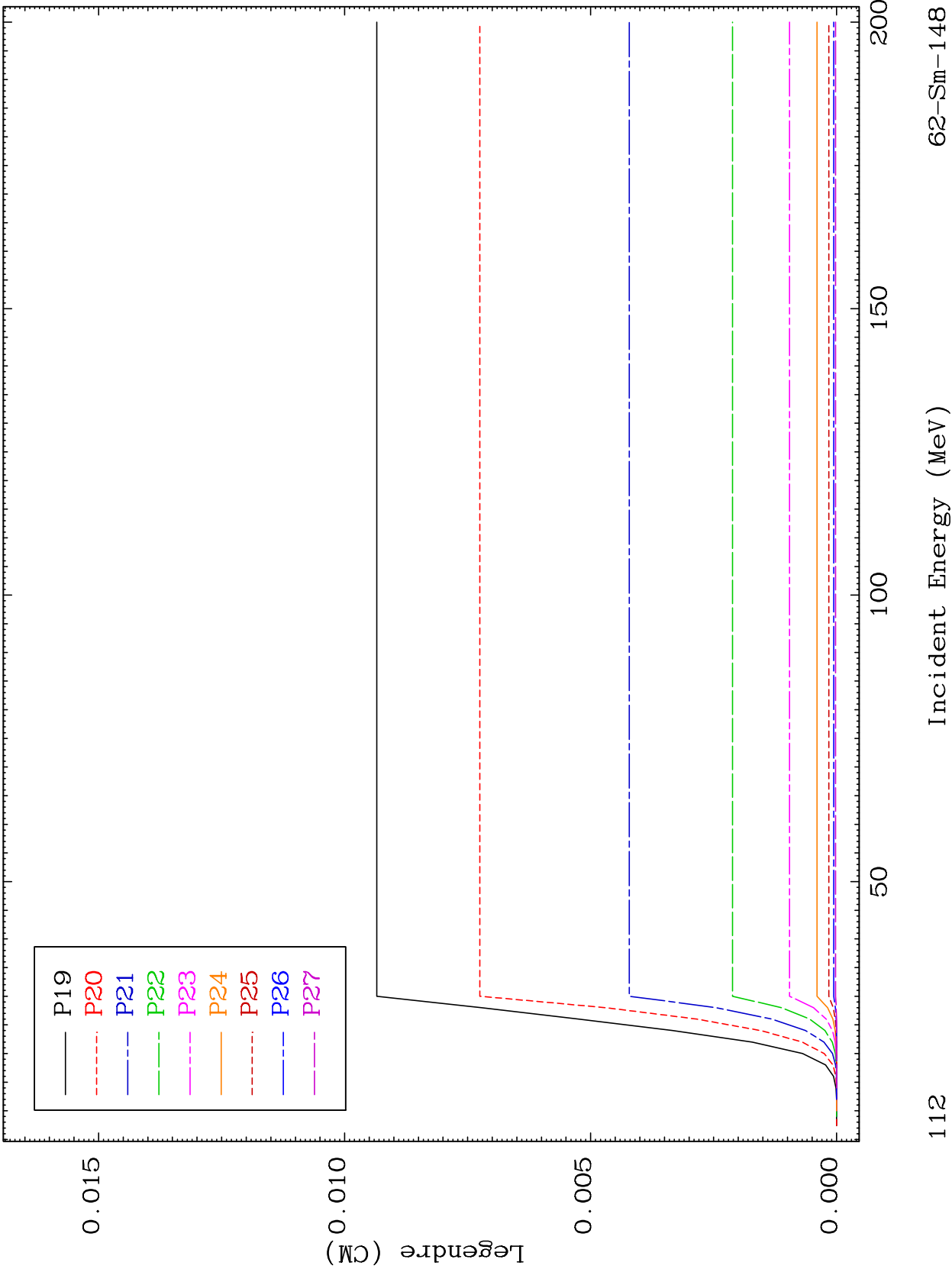
62-Sm-148



62-Sm-148



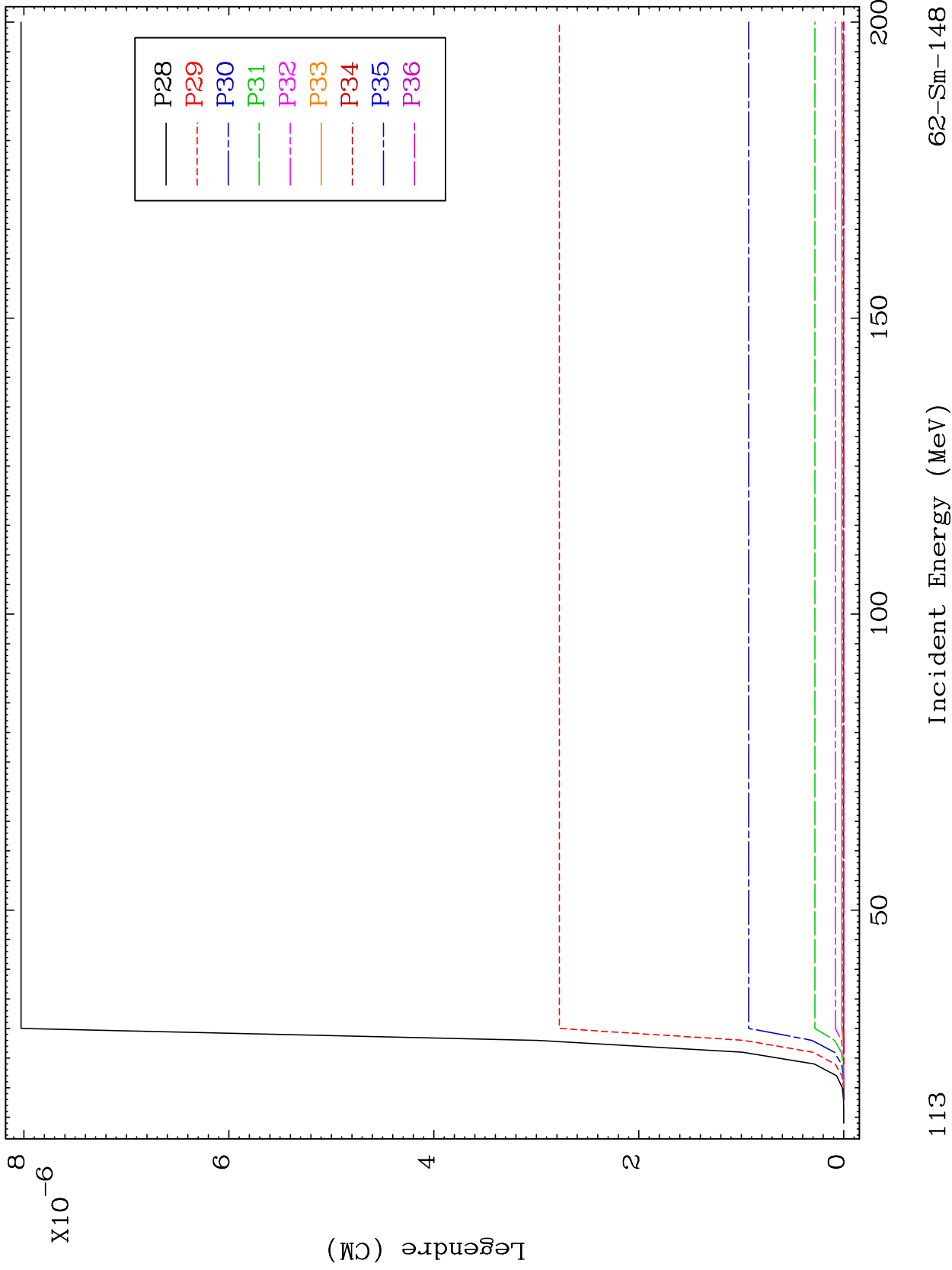




MAT 6237

2.146 MeV (n,n') Level  
Legendre Coefficients

62-Sm-148



113

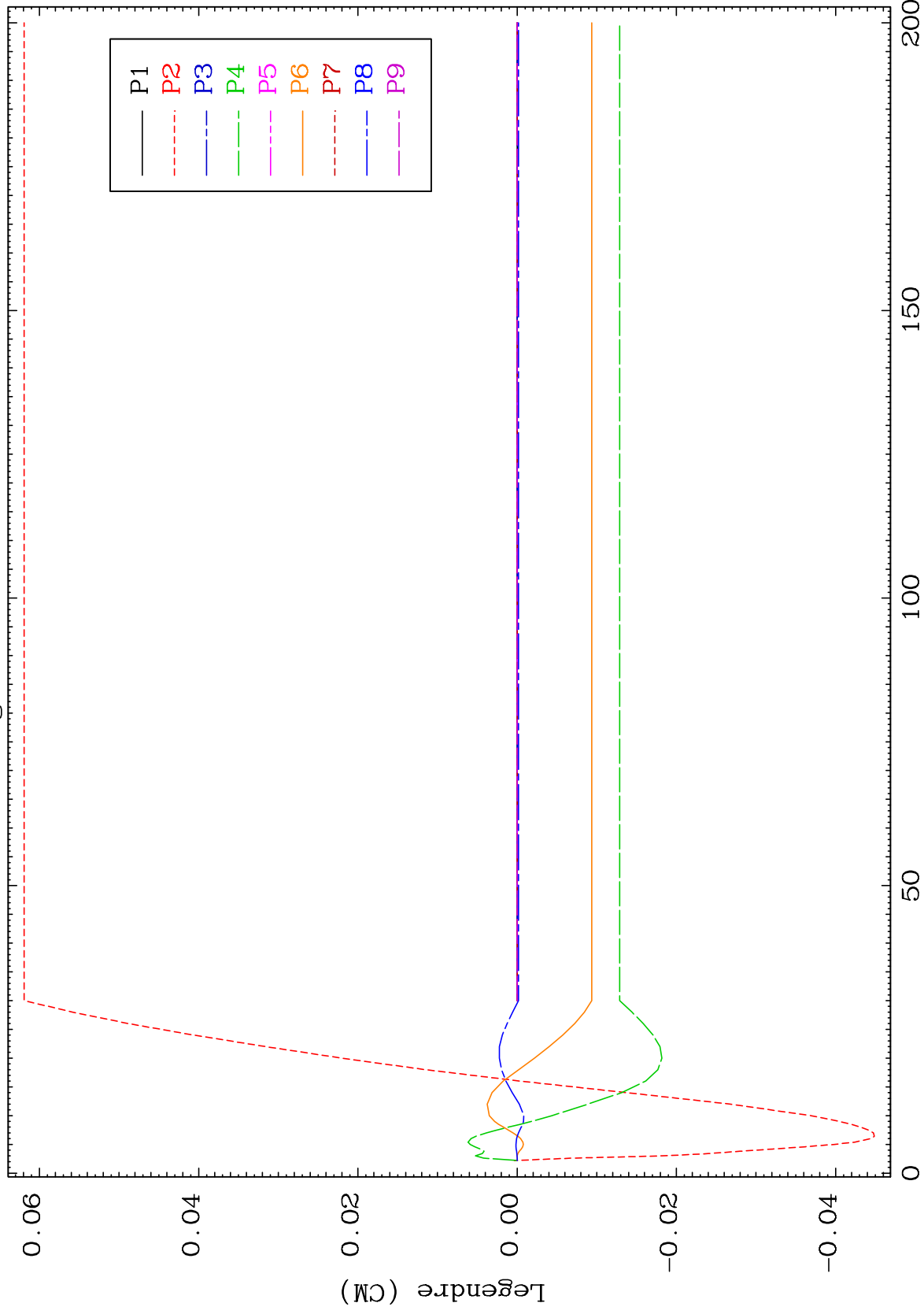
Incident Energy (MeV)

62-Sm-148

MAT 6237

2.147 MeV (n, n') Level  
Legendre Coefficients

62-Sm-148



114

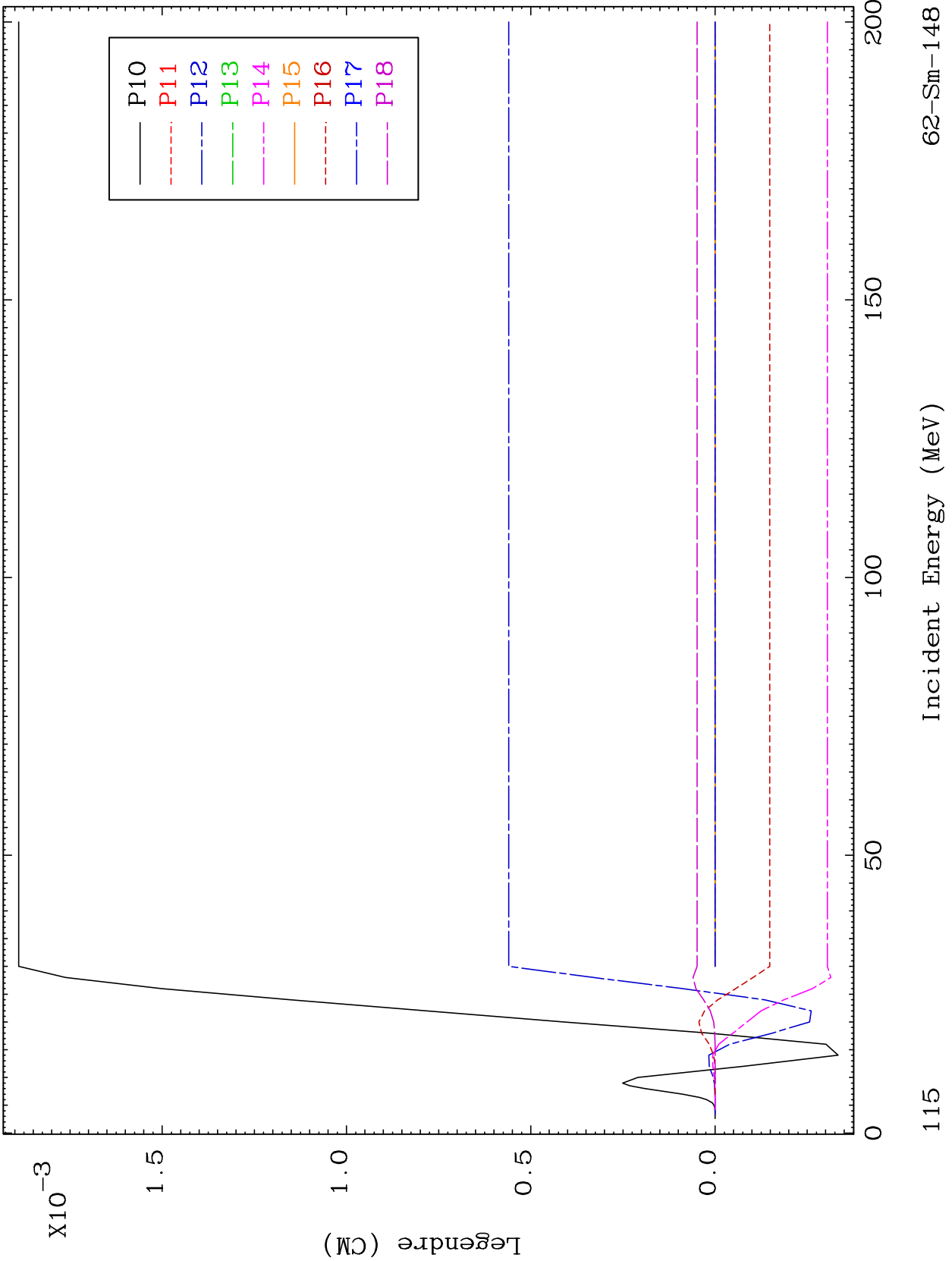
Incident Energy (MeV)

62-Sm-148

MAT 6237

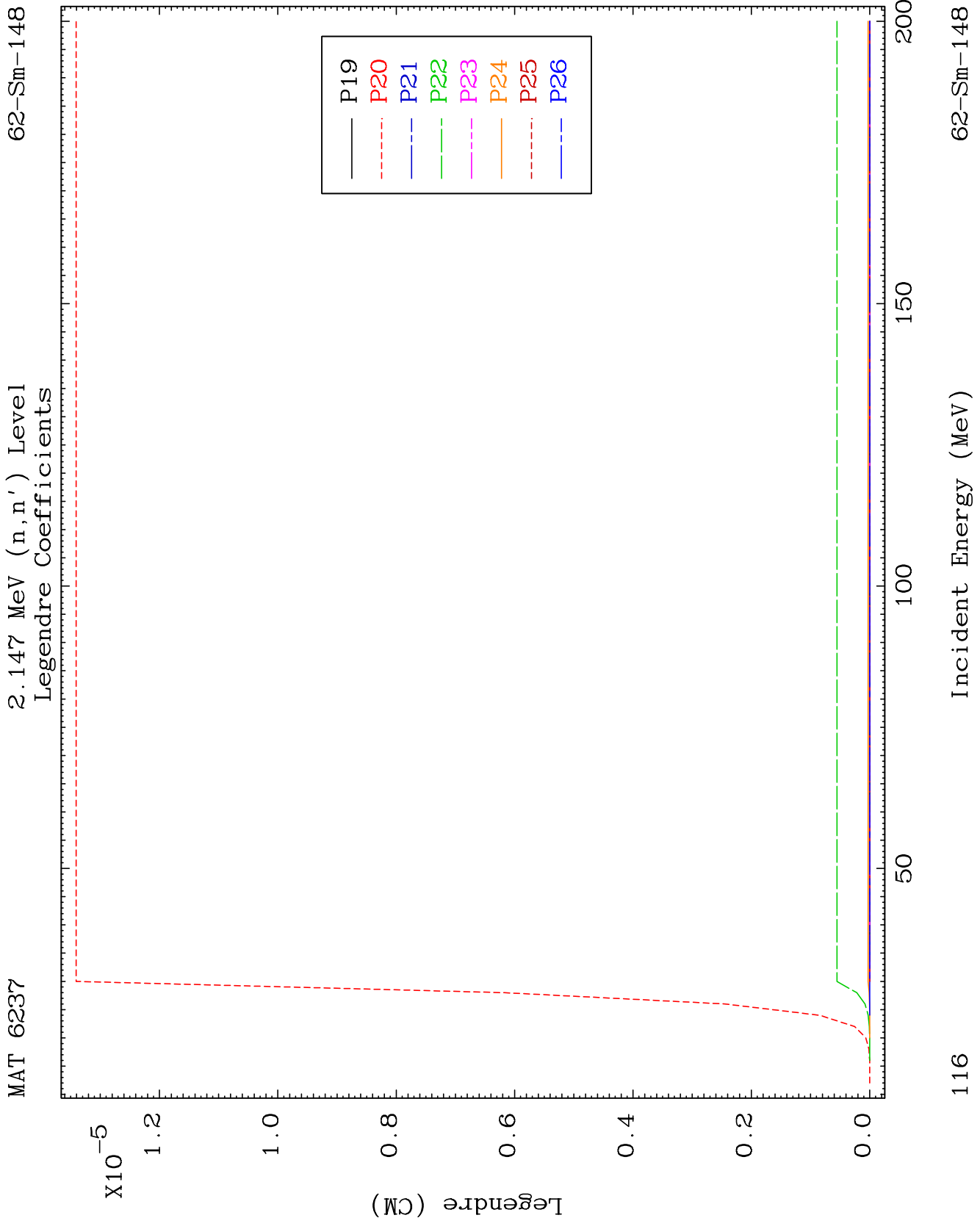
2.147 MeV (n,n') Level  
Legendre Coefficients

62-Sm-148



115

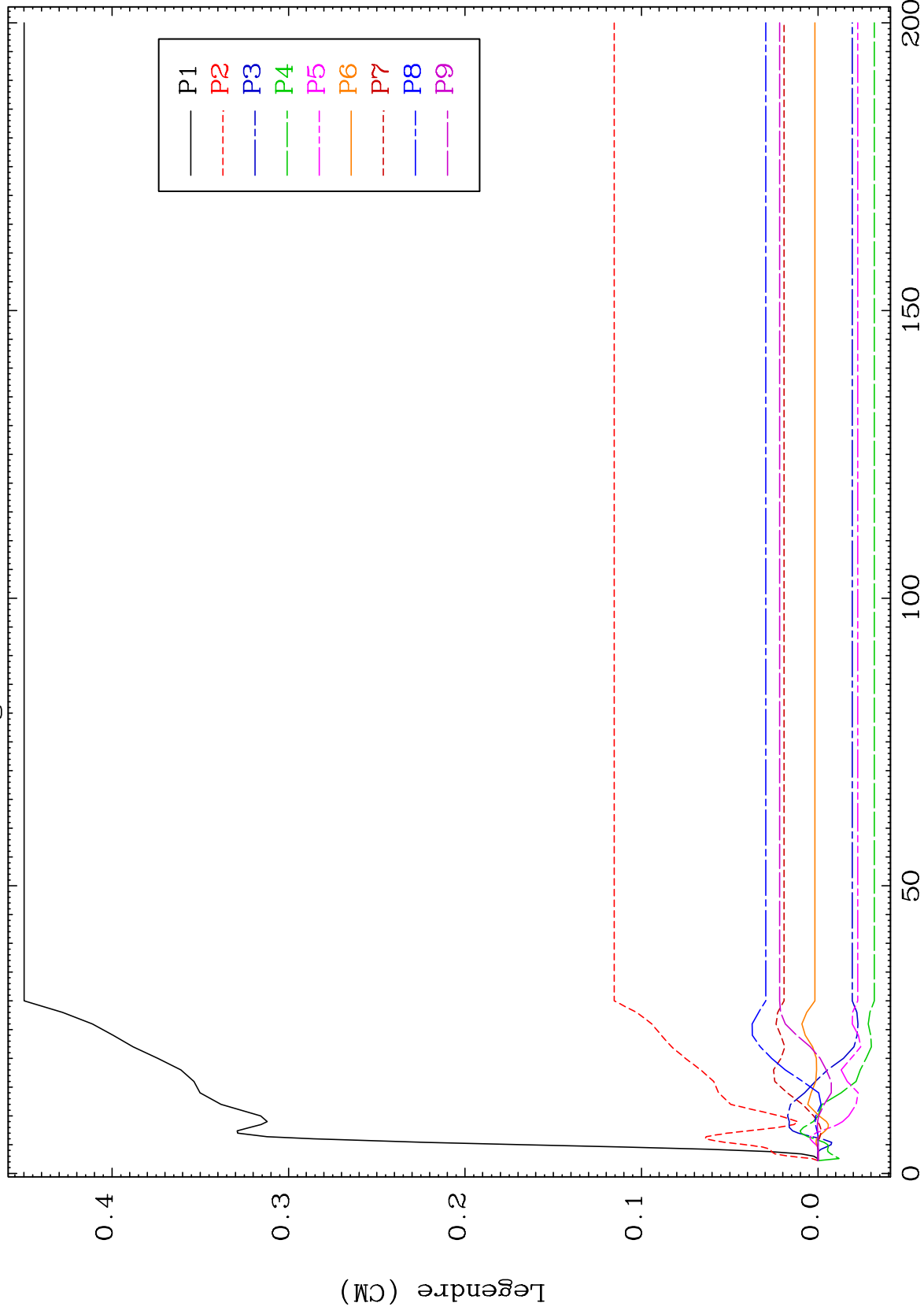
62-Sm-148



MAT 6237

2.194 MeV (n,n') Level  
Legendre Coefficients

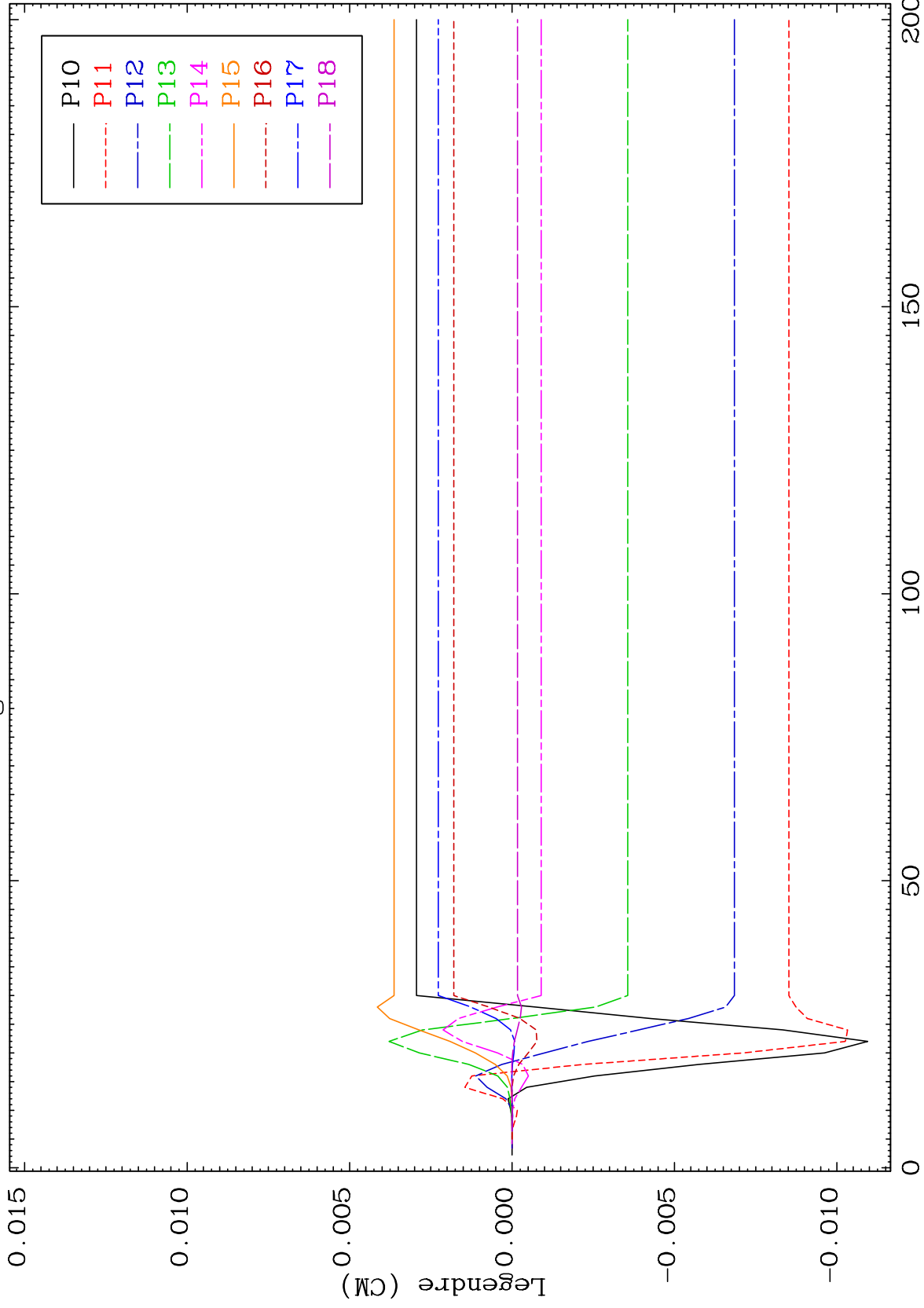
62-Sm-148

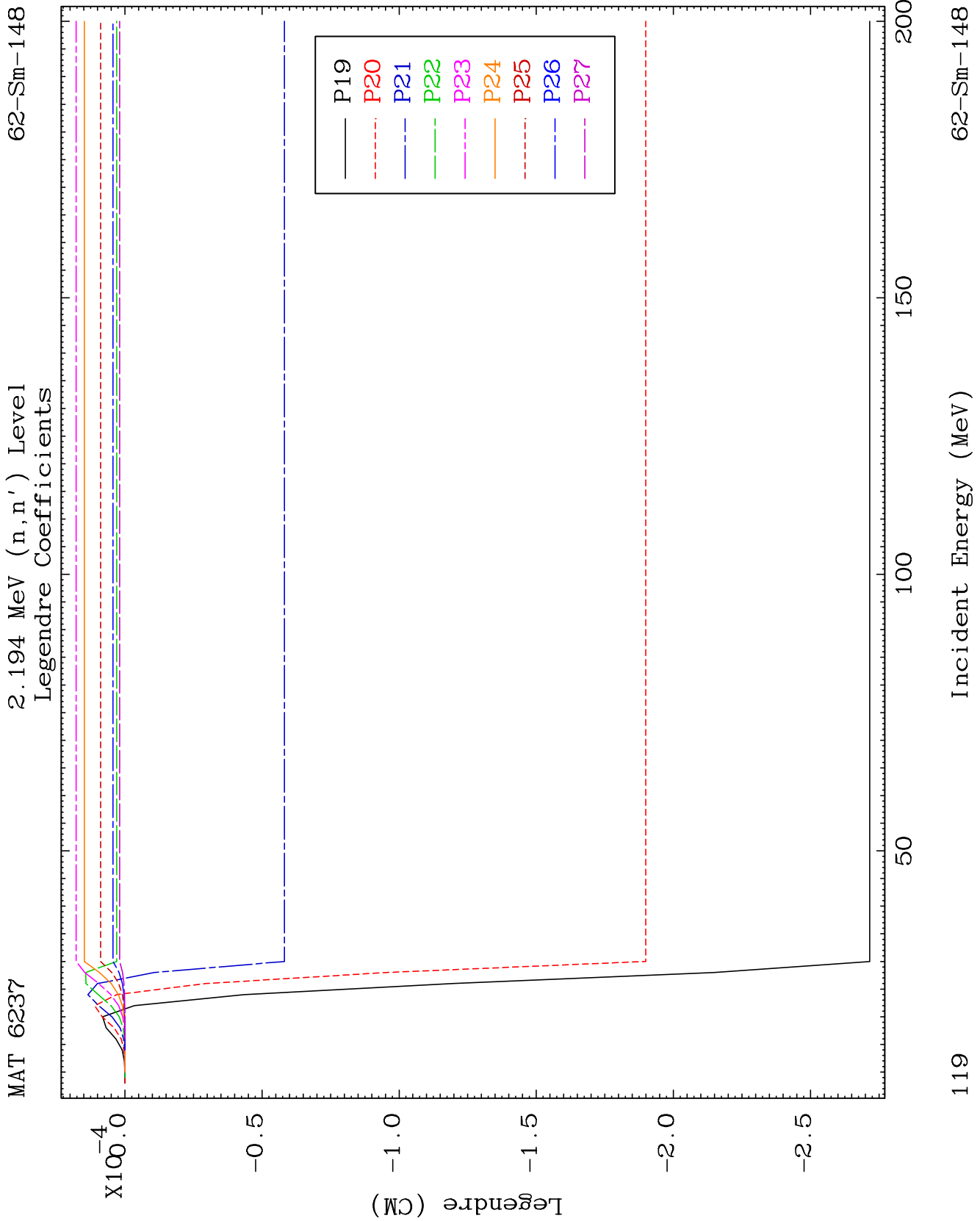


117

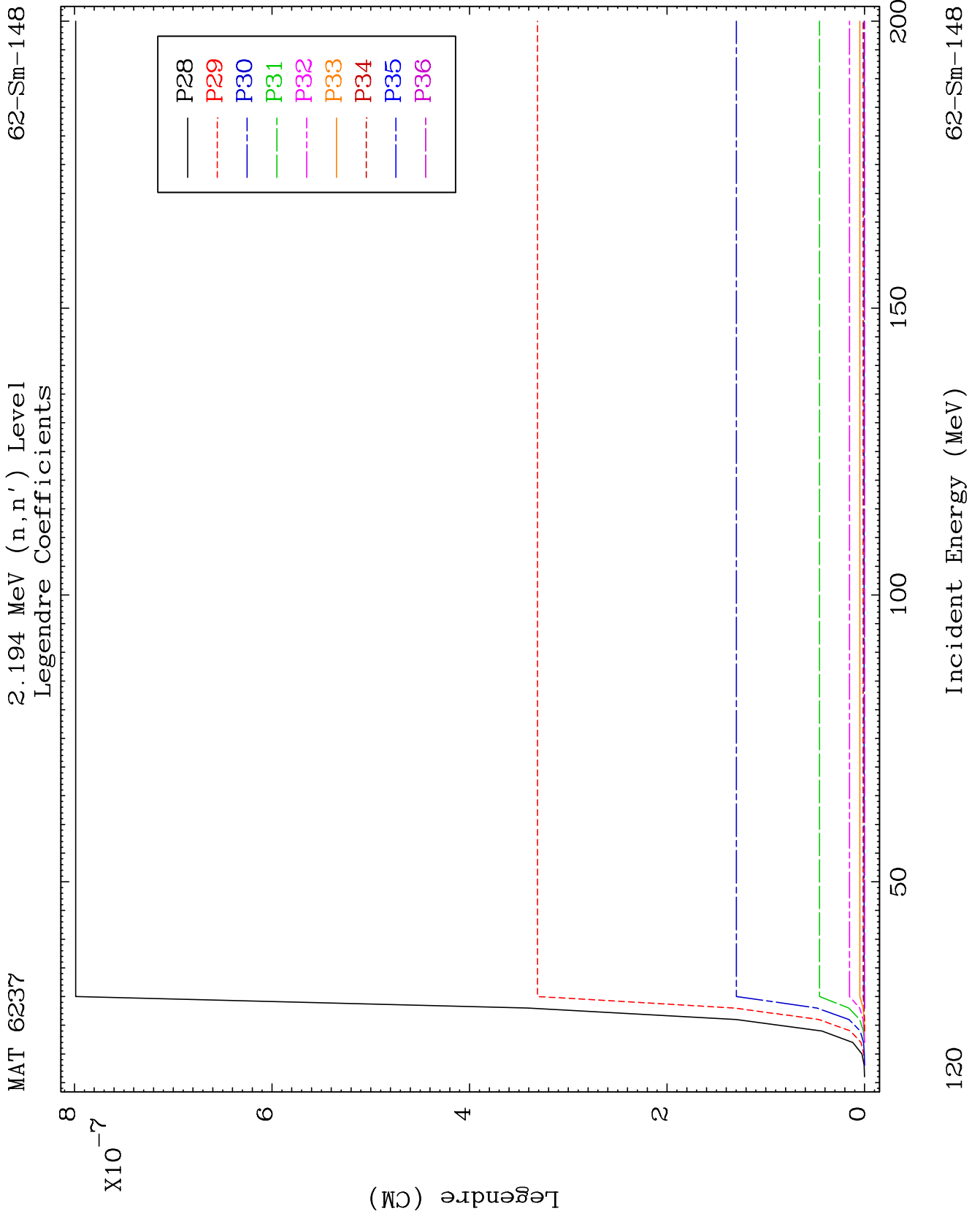
Incident Energy (MeV)

62-Sm-148







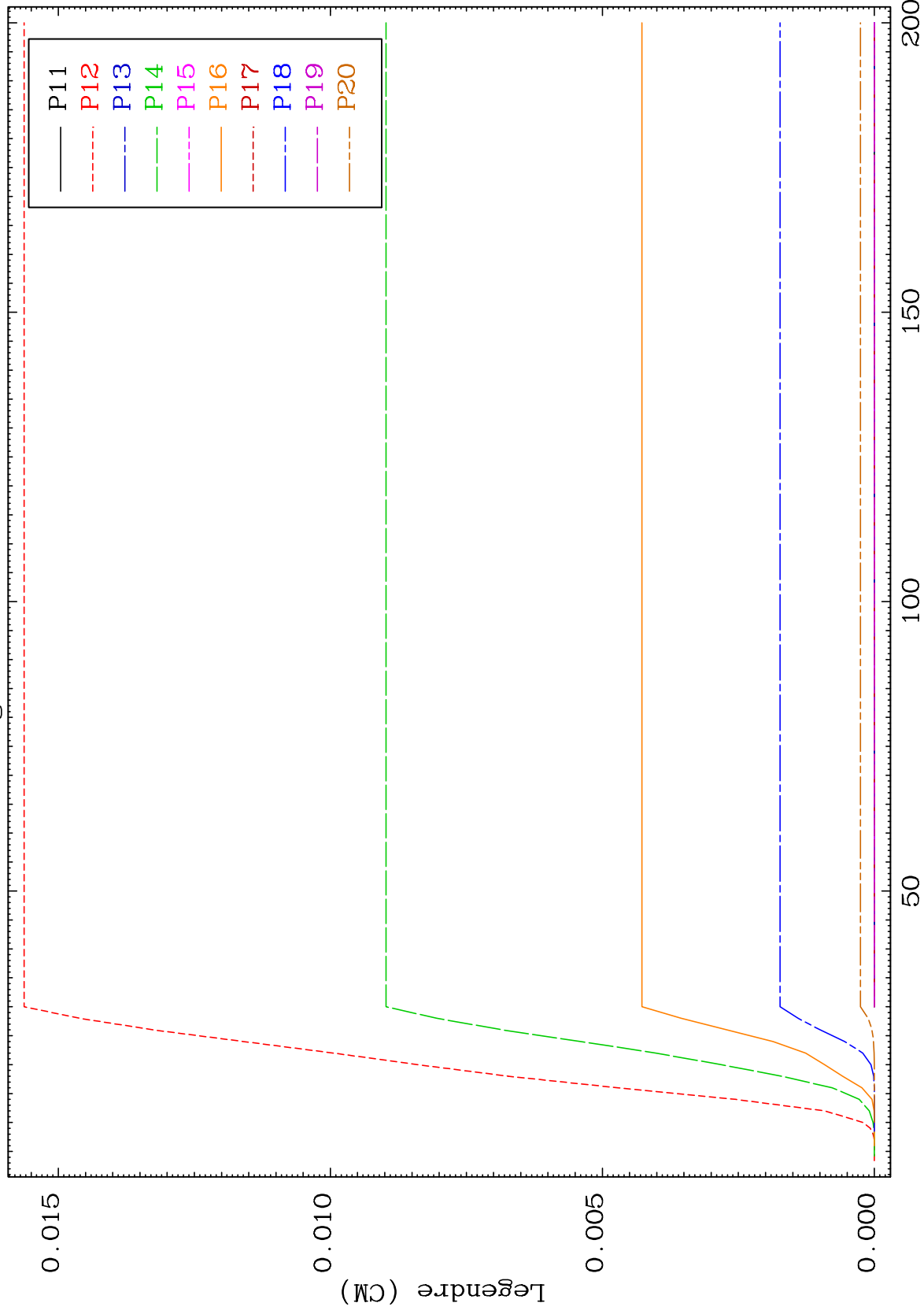




MAT 6237

2.205 MeV (n,n') Level  
Legendre Coefficients

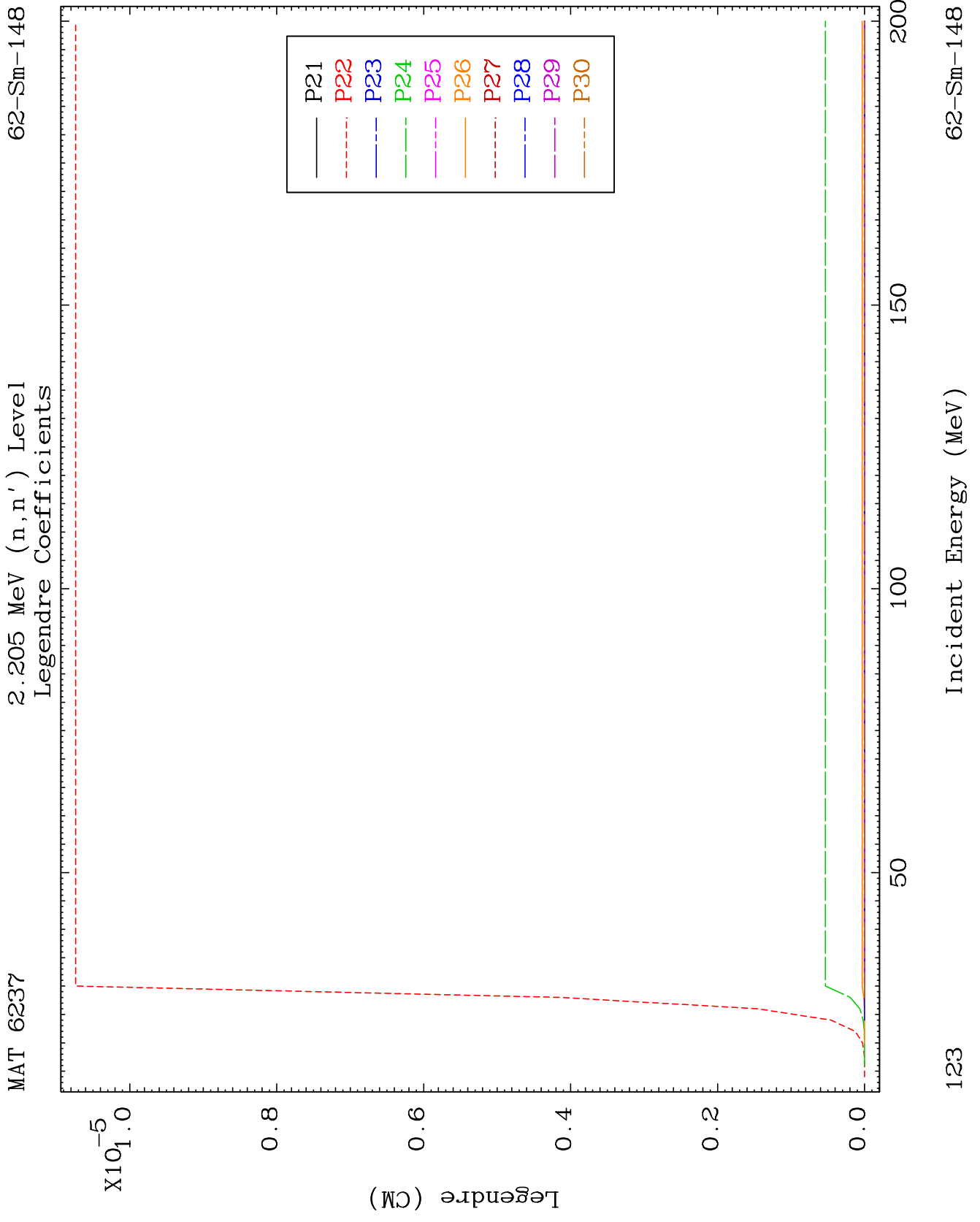
62-Sm-148



122

Incident Energy (MeV)

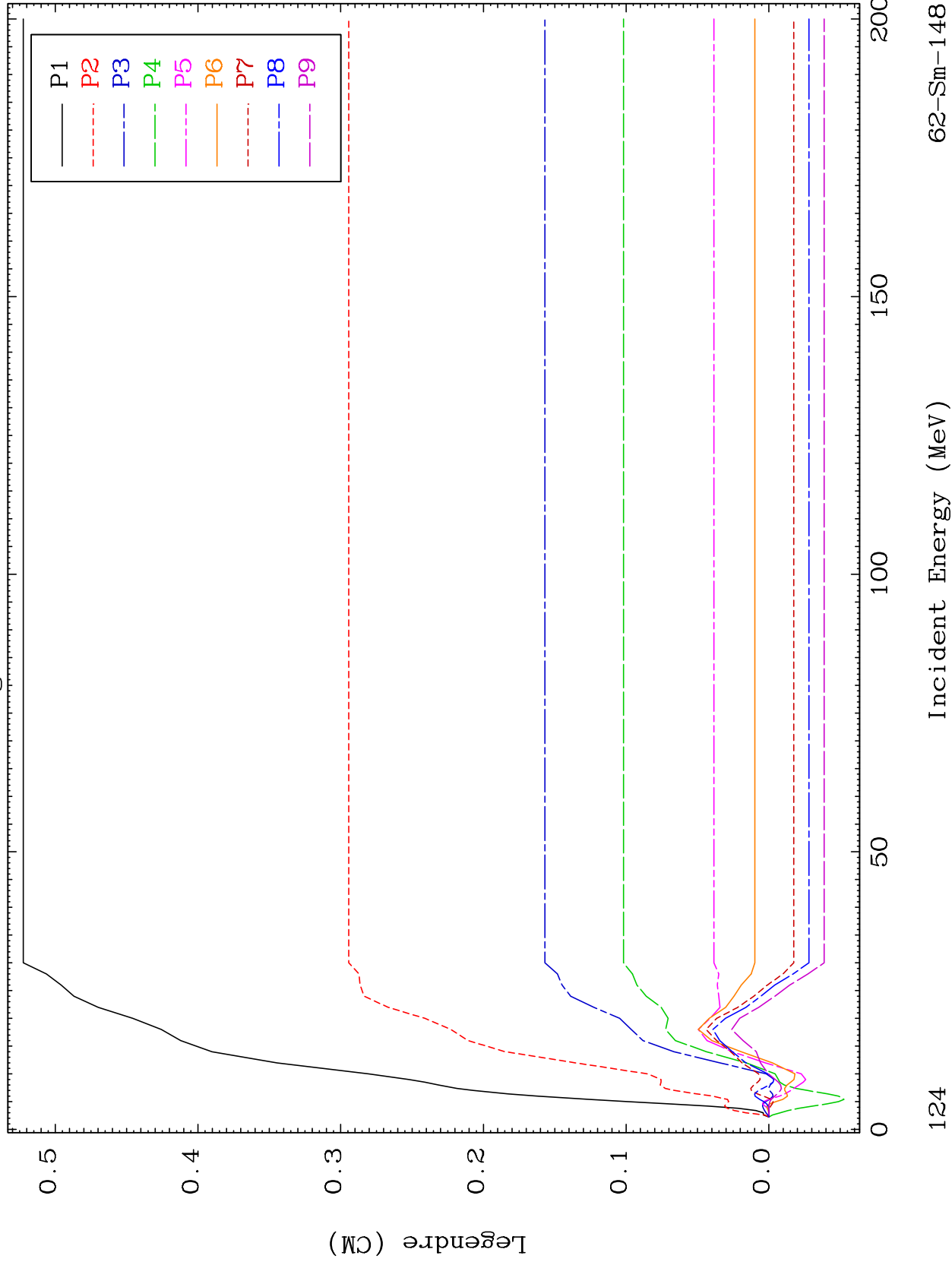
62-Sm-148



MAT 6237

2.209 MeV (n,n') Level  
Legendre Coefficients

62-Sm-148



62-Sm-148

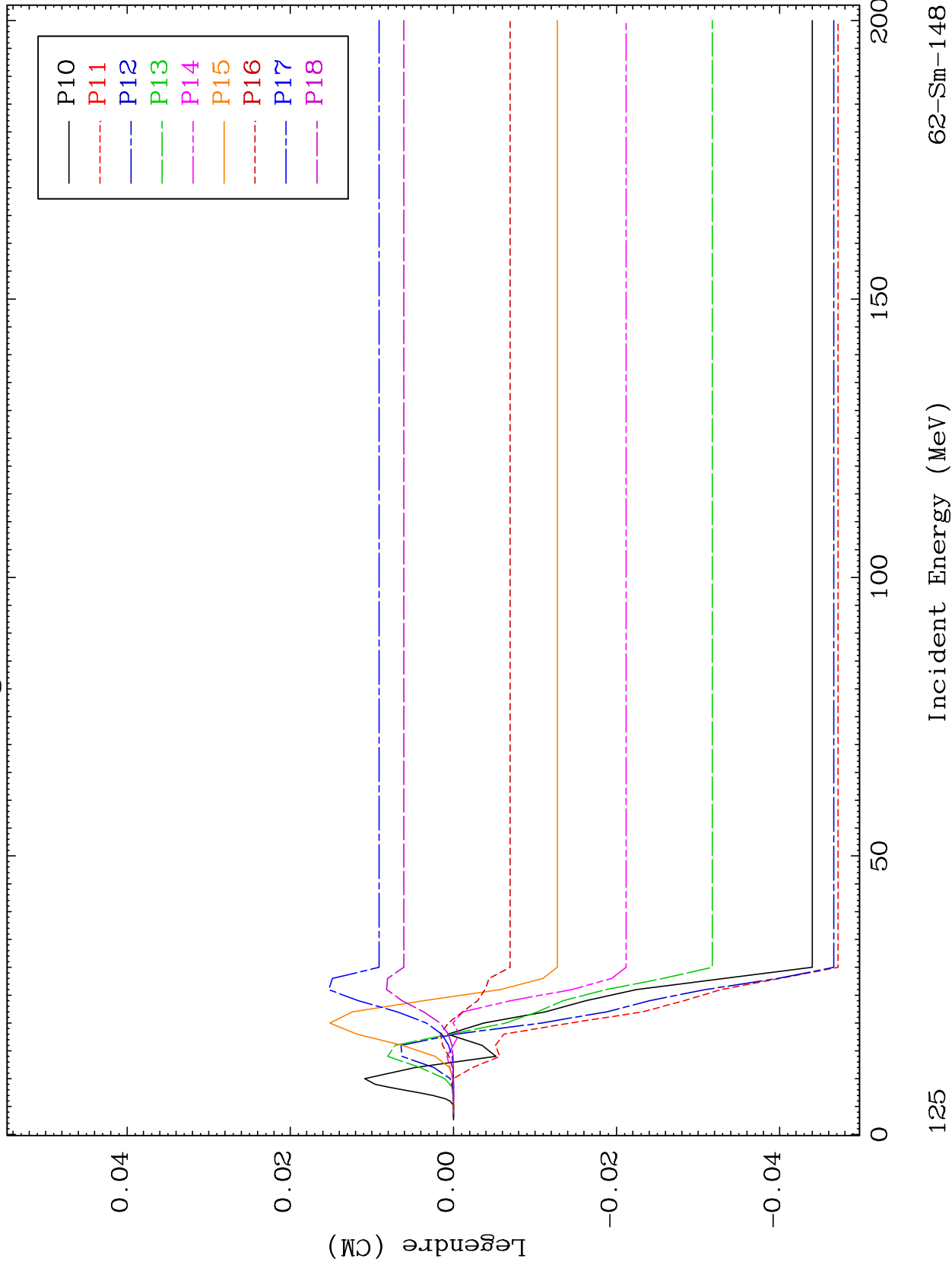
Incident Energy (MeV)

124

MAT 6237

2.209 MeV (n,n') Level  
Legendre Coefficients

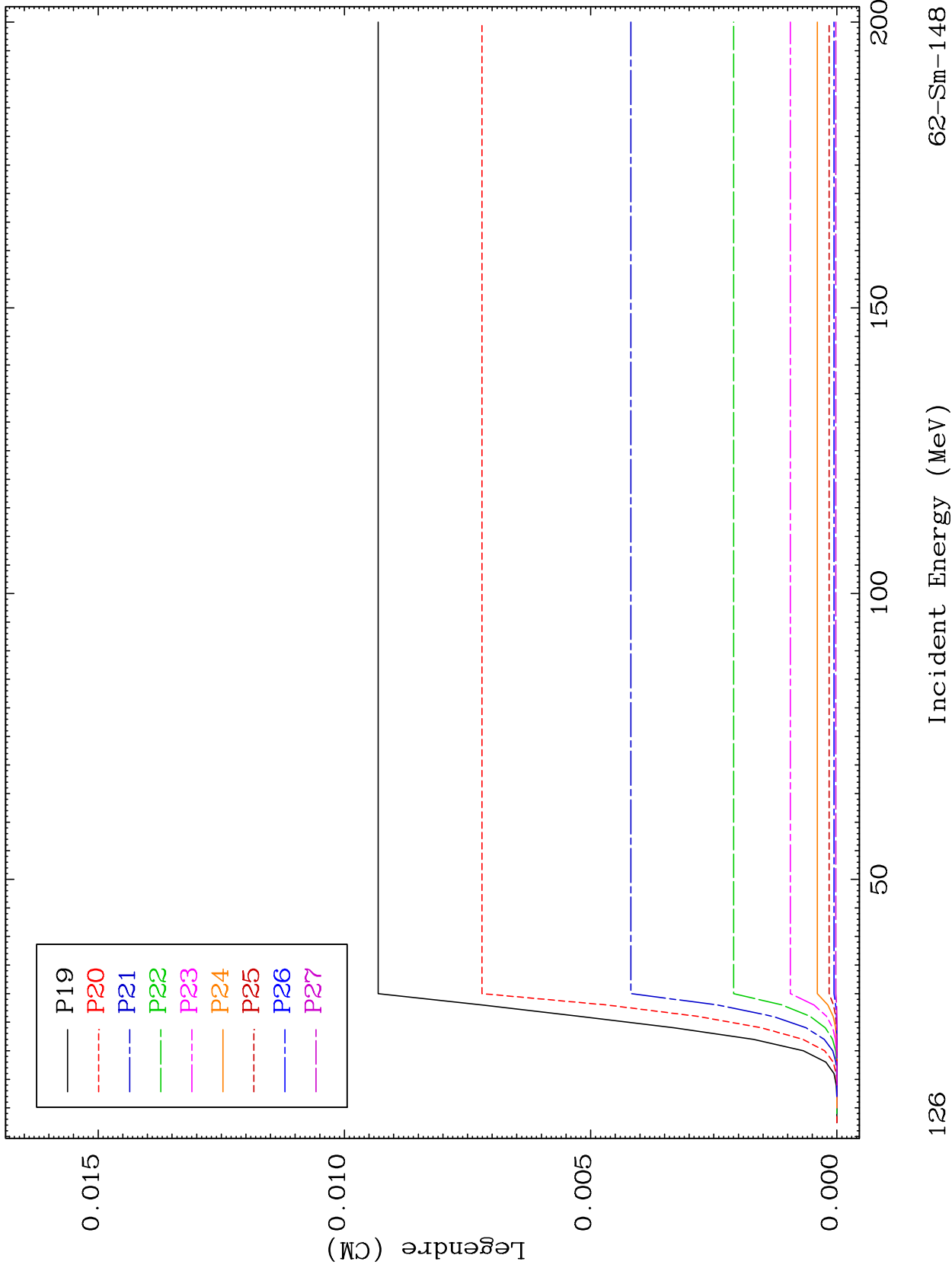
62-Sm-148

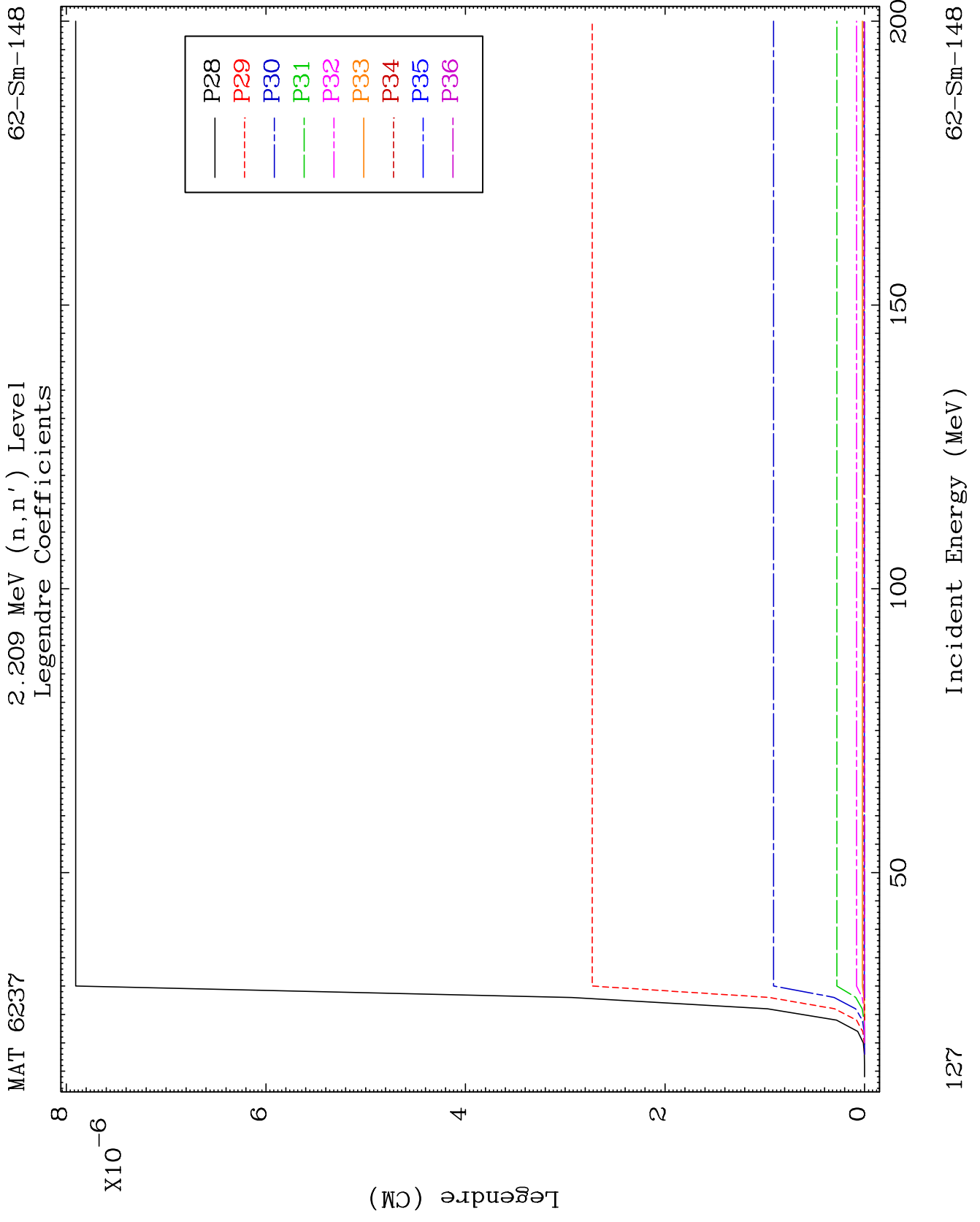


125

Incident Energy (MeV)

62-Sm-148



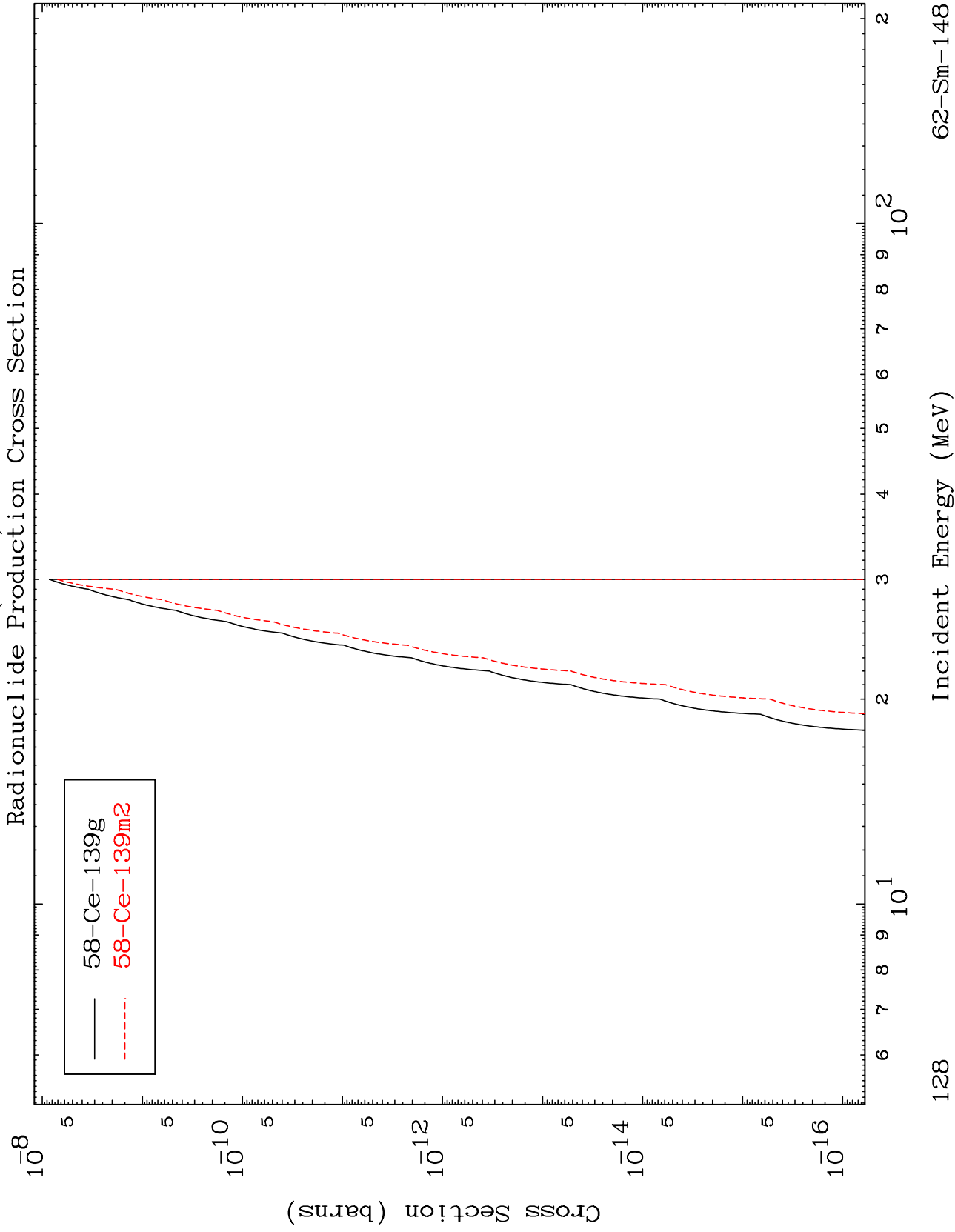




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(n,2n) 2 $\alpha$

62-Sm-148



128

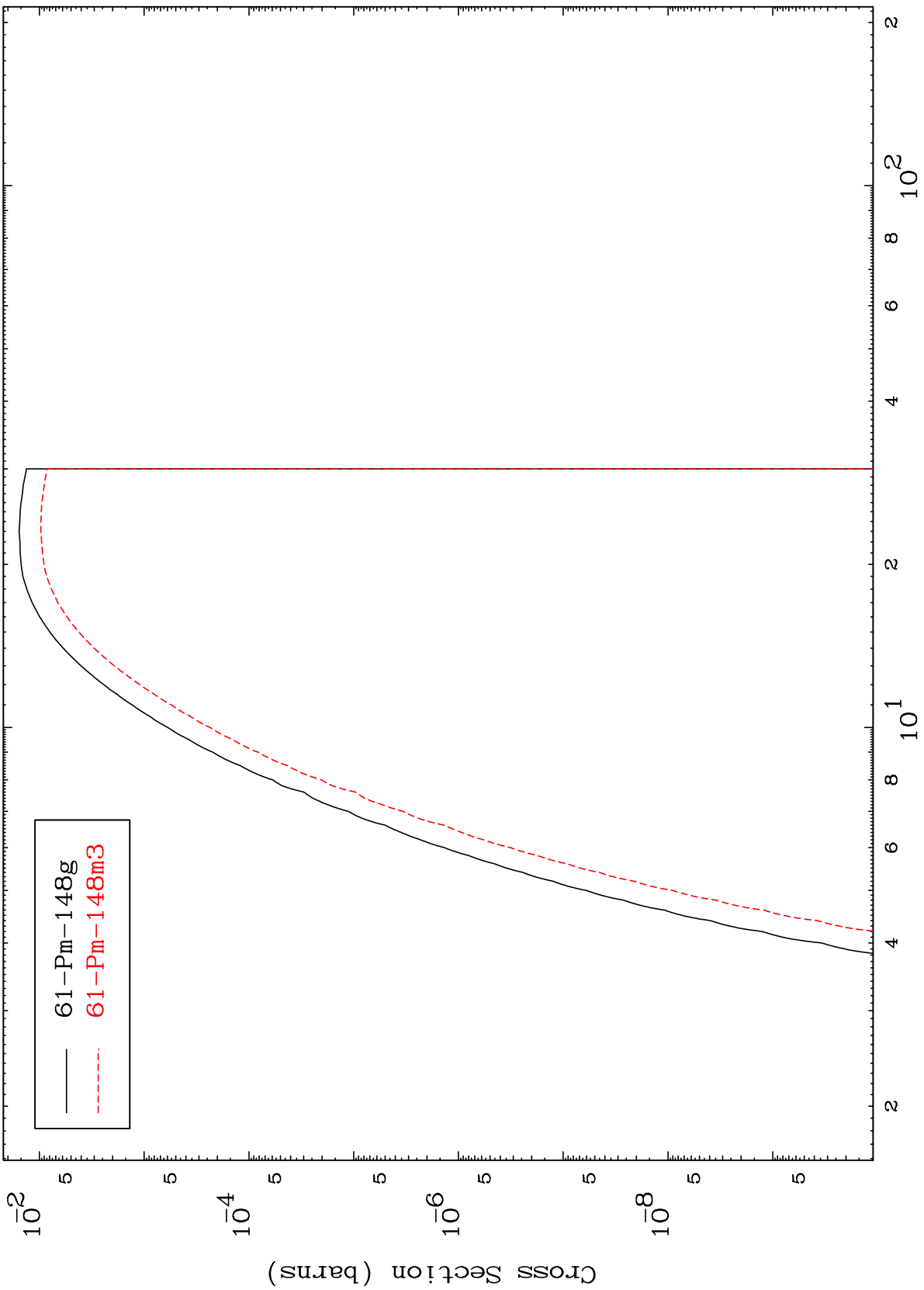
Incident Energy (MeV)

62-Sm-148

MAT 6237

62-Sm-148

(n,p)  
Radionuclide Production Cross Section



— 61-Pm-148g  
- - - 61-Pm-148m3

62-Sm-148

Incident Energy (MeV)

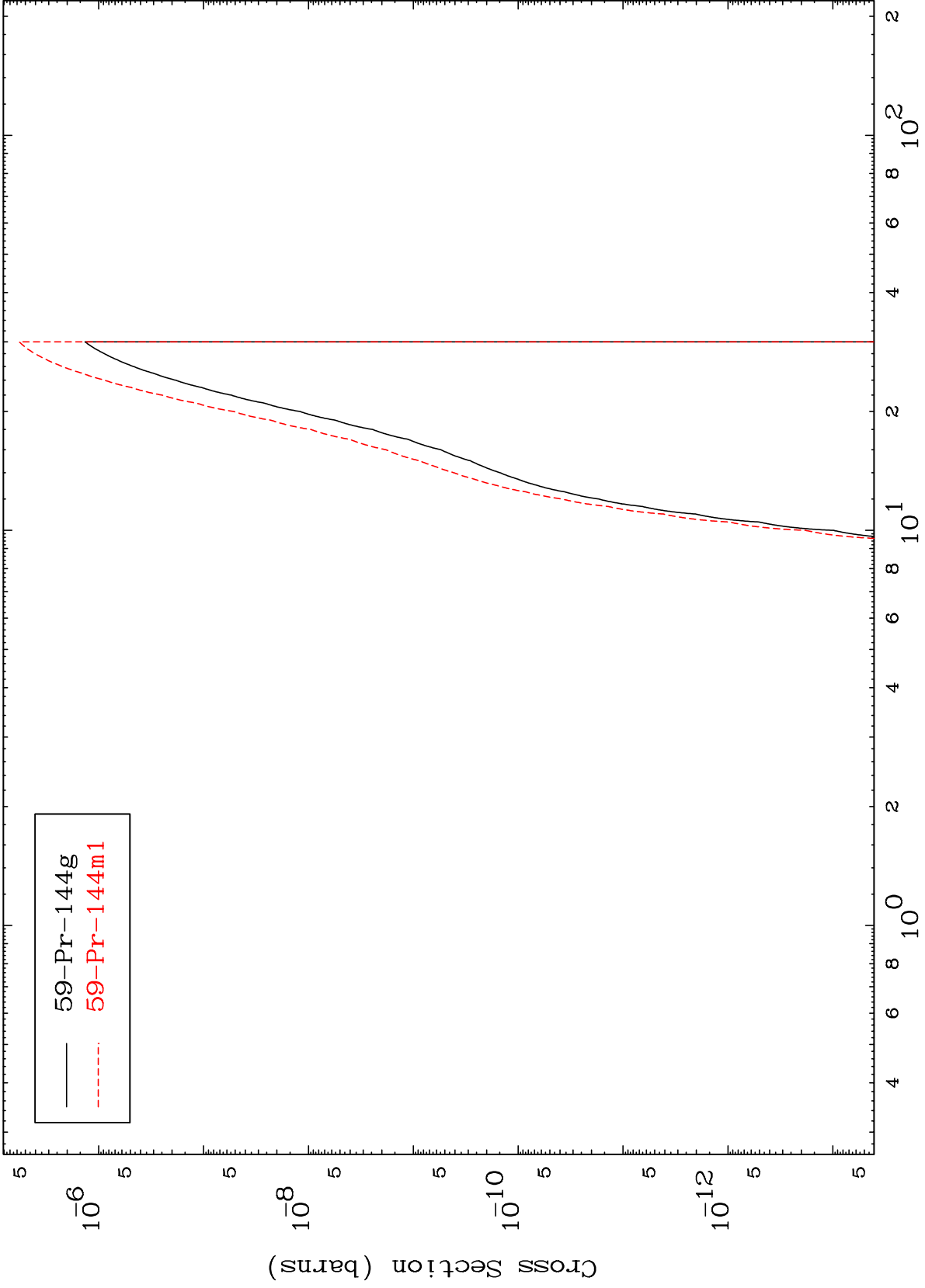
129

MAT 6237

(n,p)  $\alpha$

62-Sm-148

Radionuclide Production Cross Section



130

Incident Energy (MeV)

62-Sm-148