

Program EVALPLOT  
(Version 2015-2)

by

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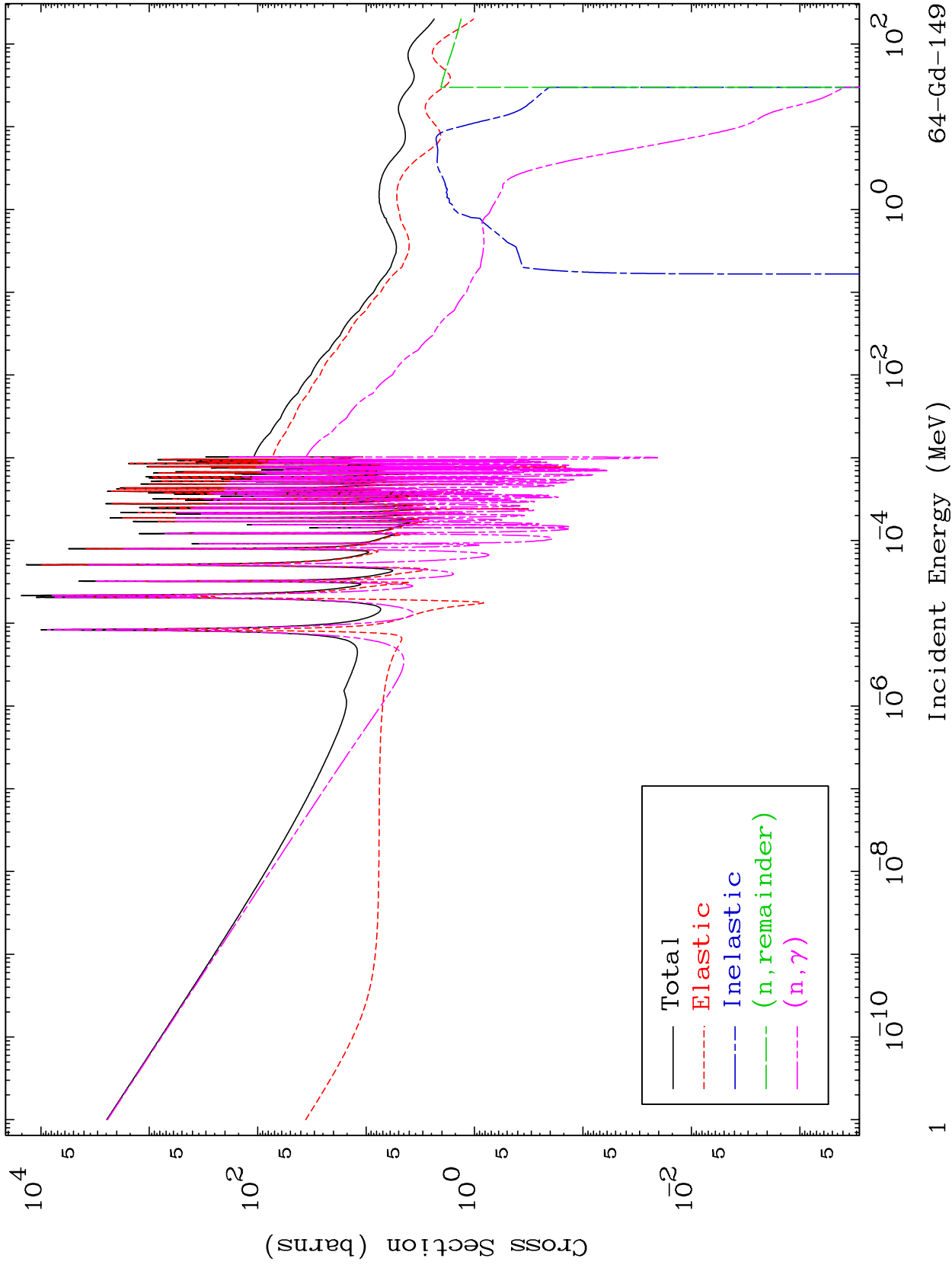
E.Mail:redcullen1@comcast.net  
Web:home.comcast.net/~redcullen1

Press Mouse Button to Start

MAT 6416

Major  
293 Kelvin Cross Sections

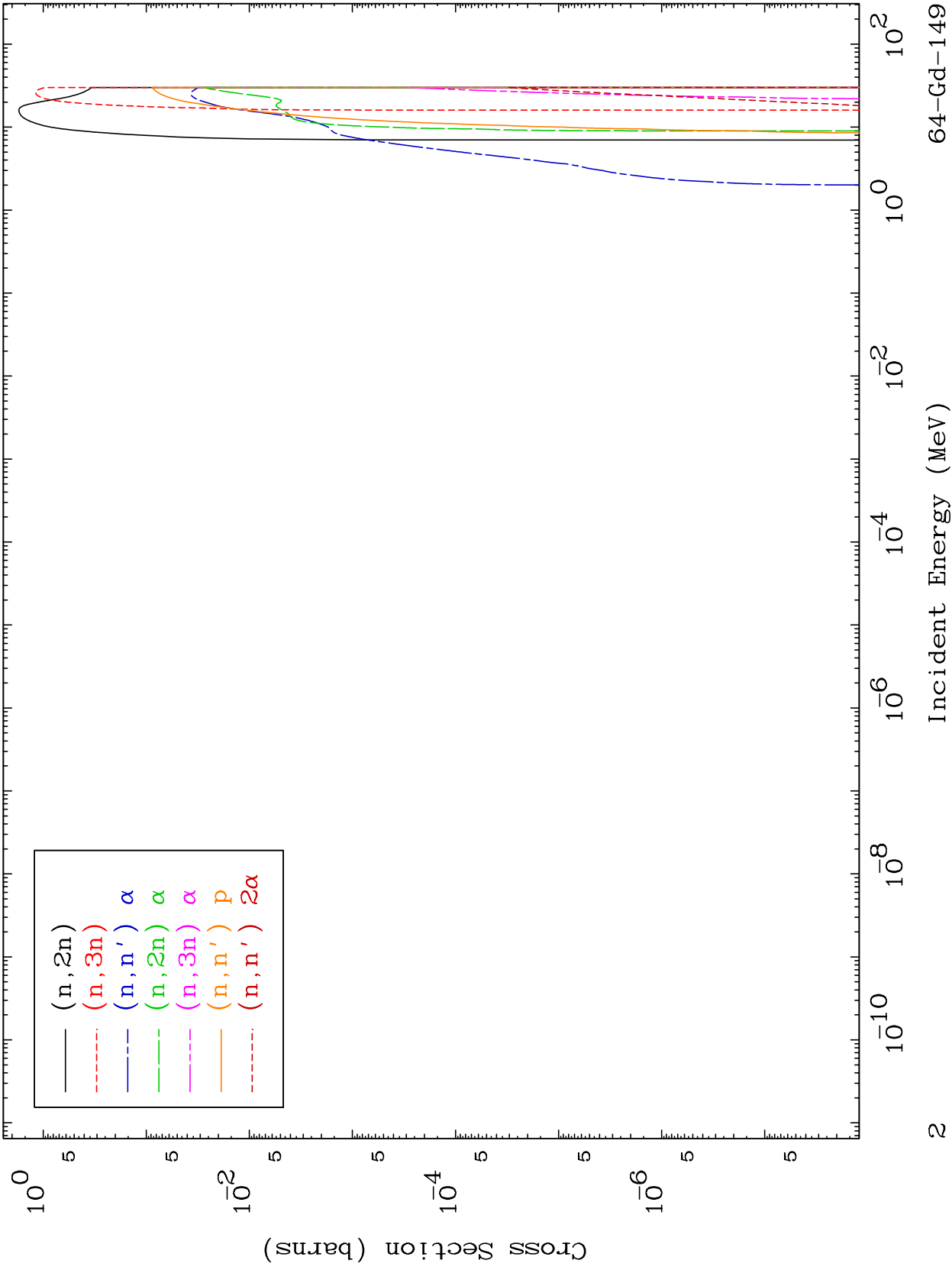
64-Gd-149

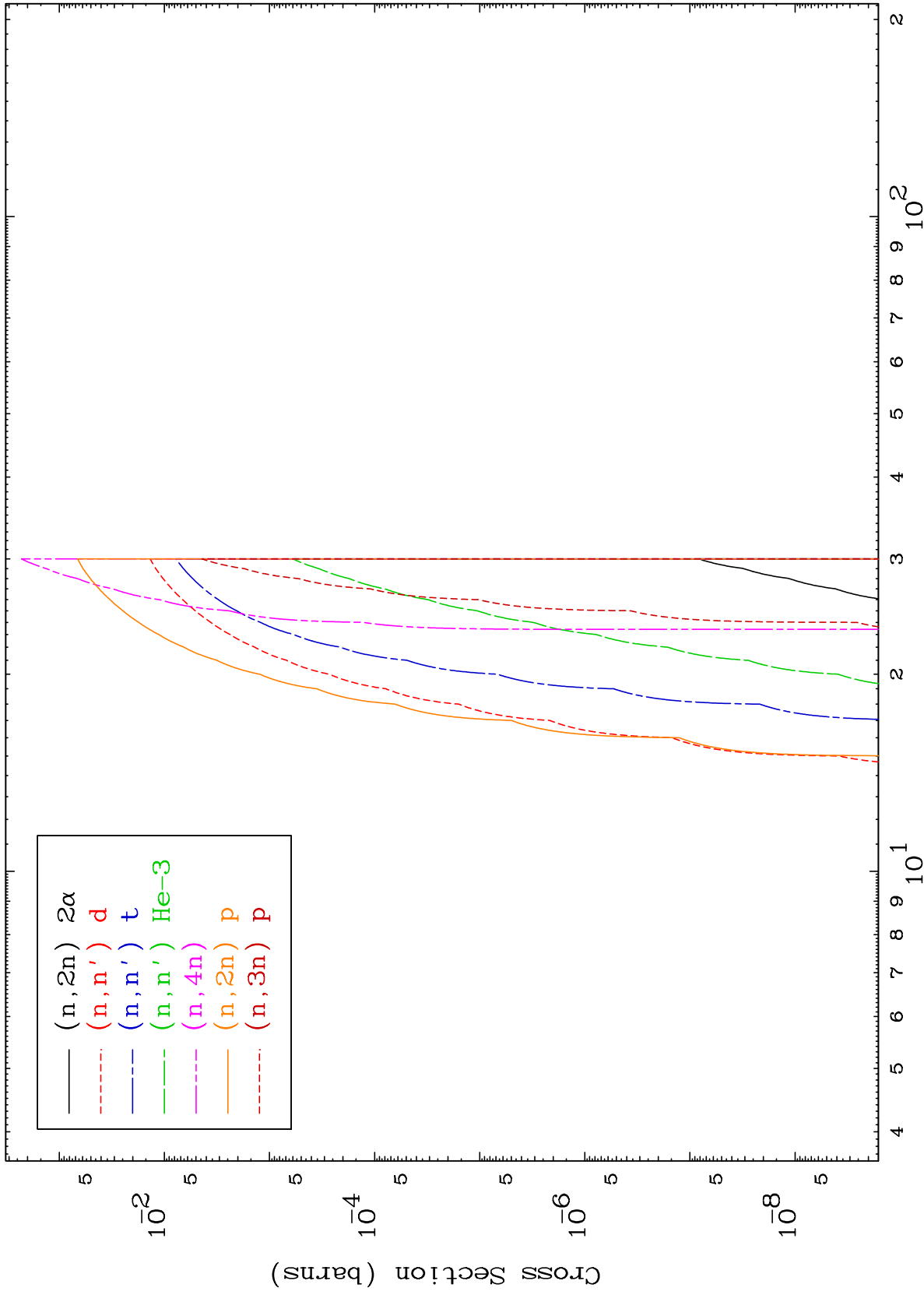


MAT 6416

Neutron Production  
293 Kelvin Cross Sections

64-Gd-149

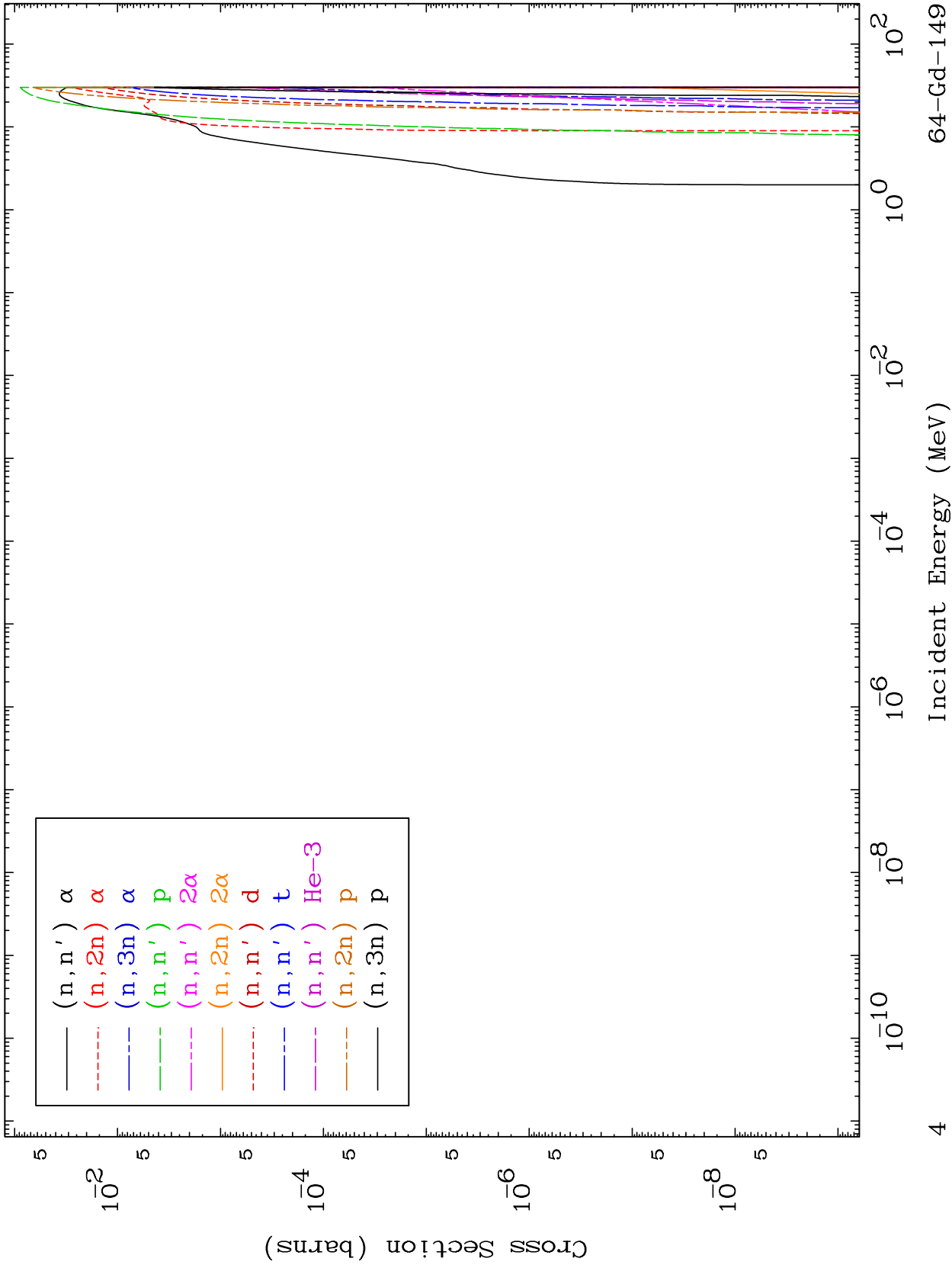




MAT 6416

Charged Particle  
293 Kelvin Cross Sections

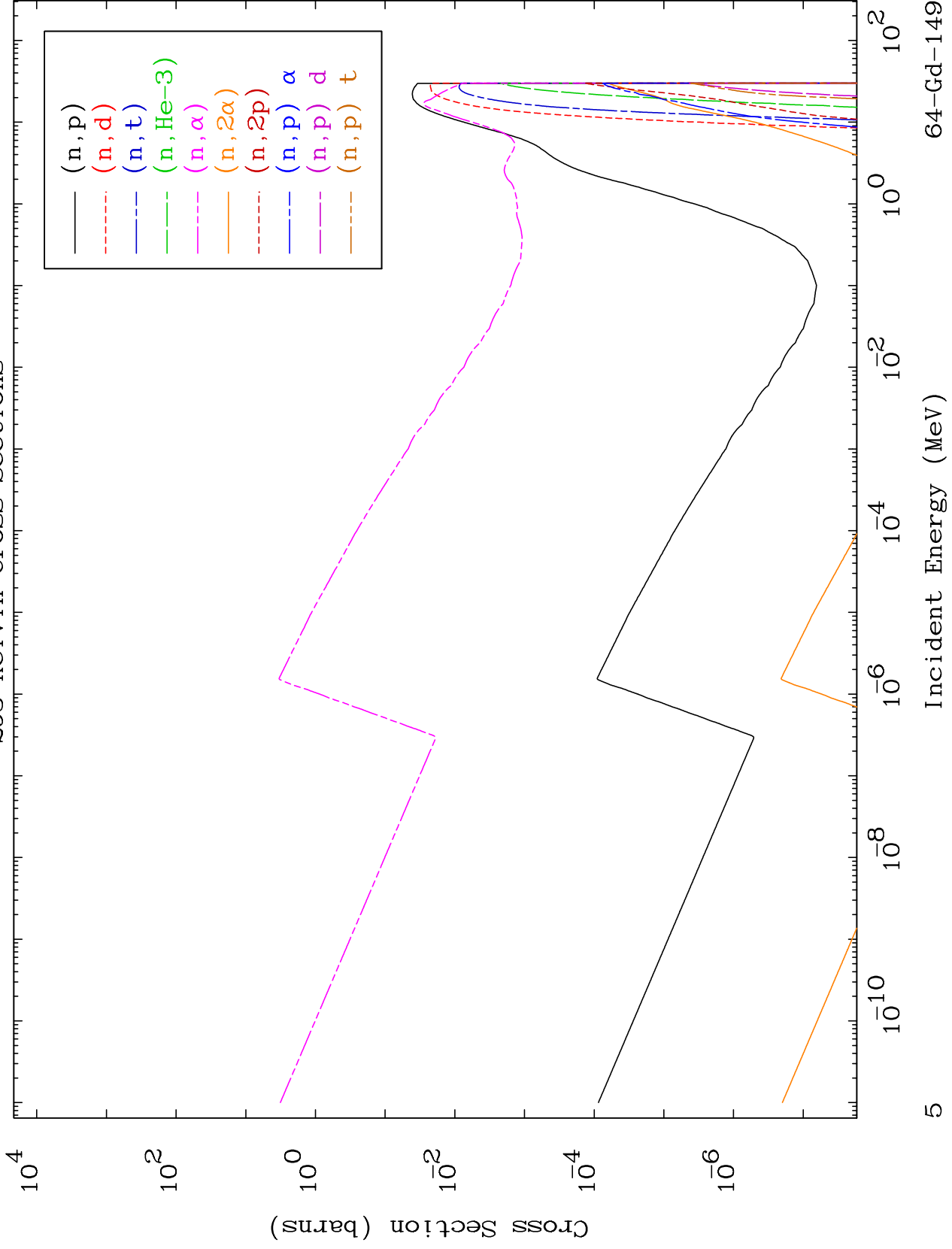
64-Gd-149



MAT 6416

Charged Particle  
293 Kelvin Cross Sections

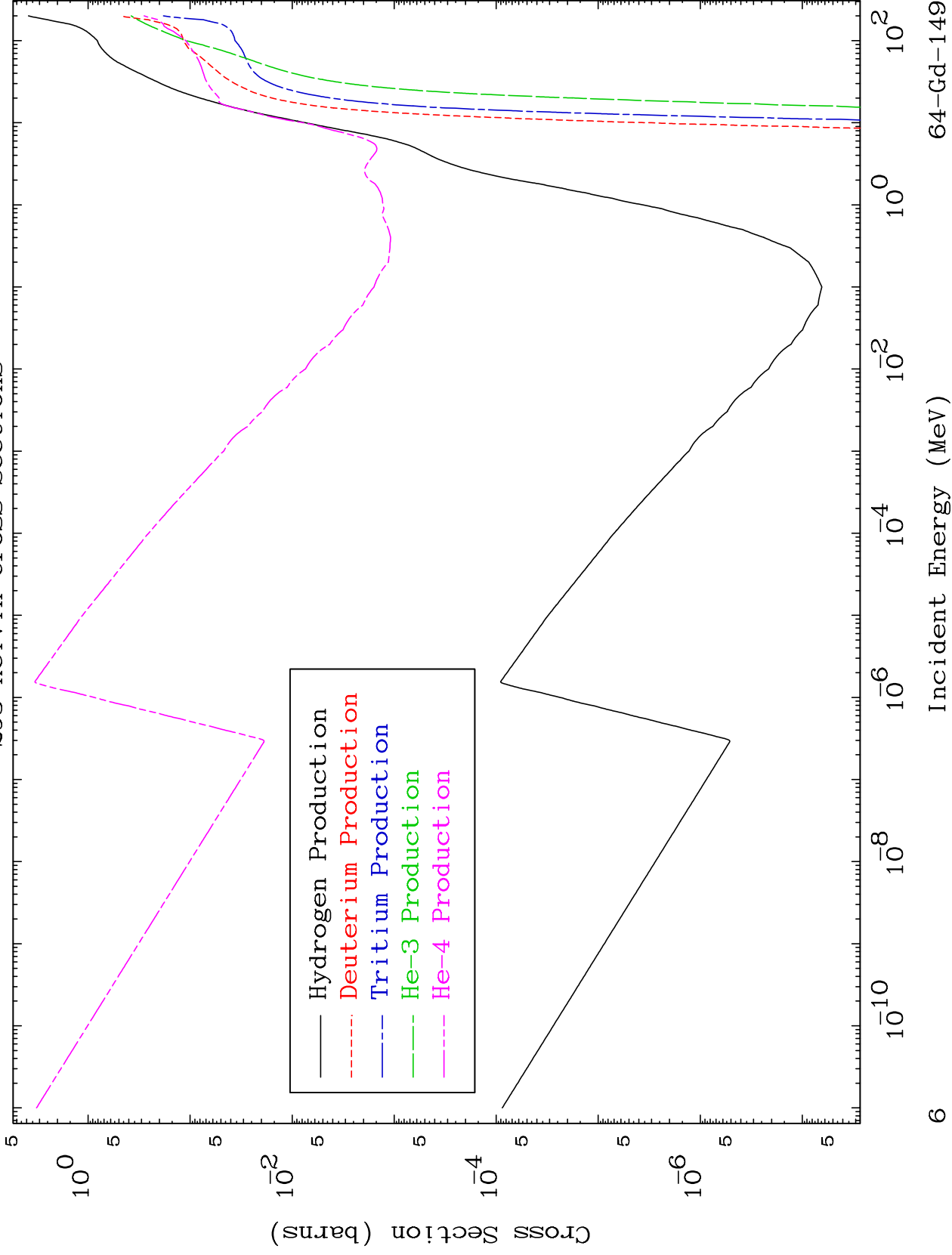
64-Gd-149



MAT 6416

Particle Production  
293 Kelvin Cross Sections

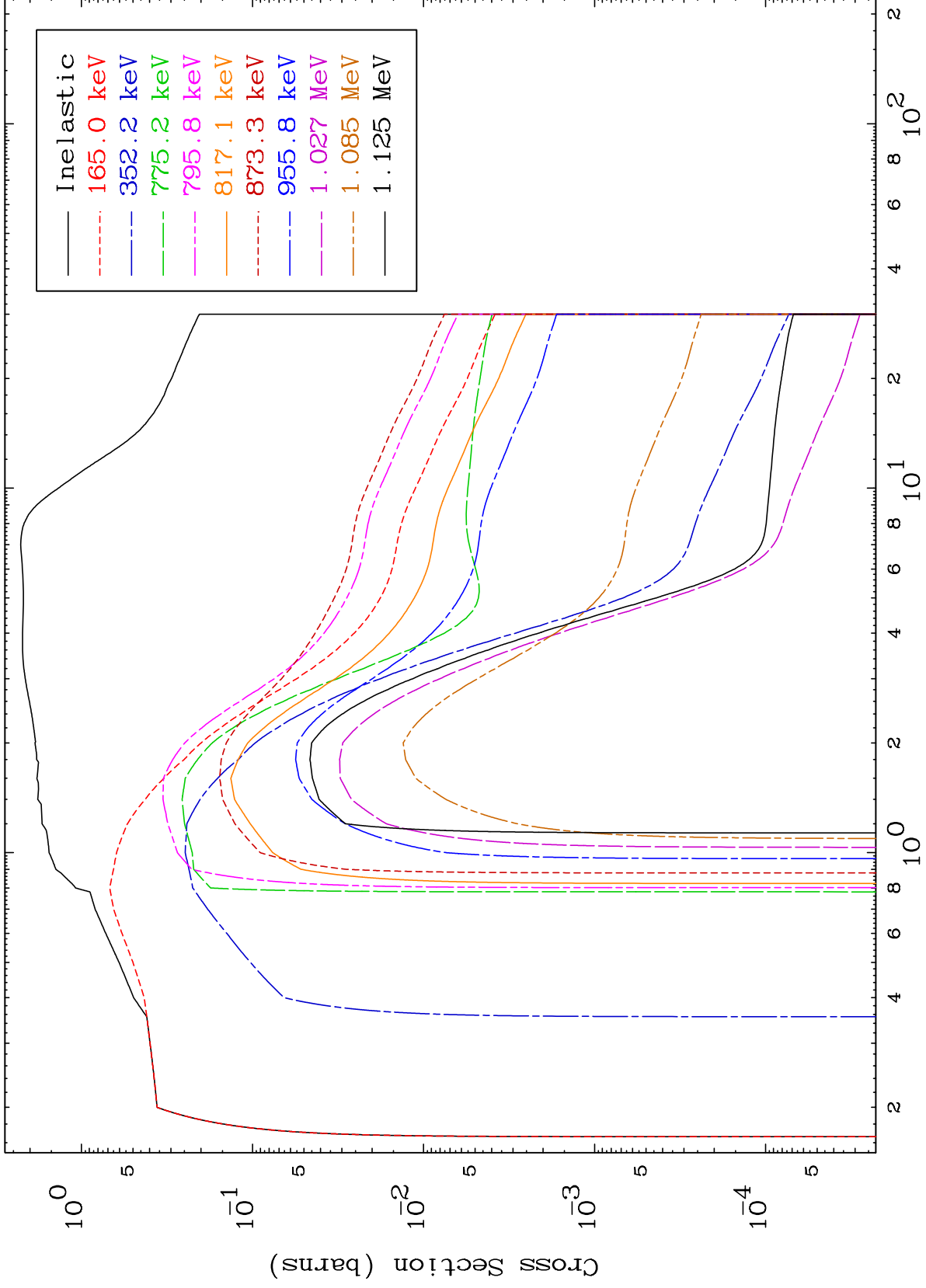
64-Gd-149



MAT 6416

(n,n') Level  
293 Kelvin Cross Sections

64-Gd-149

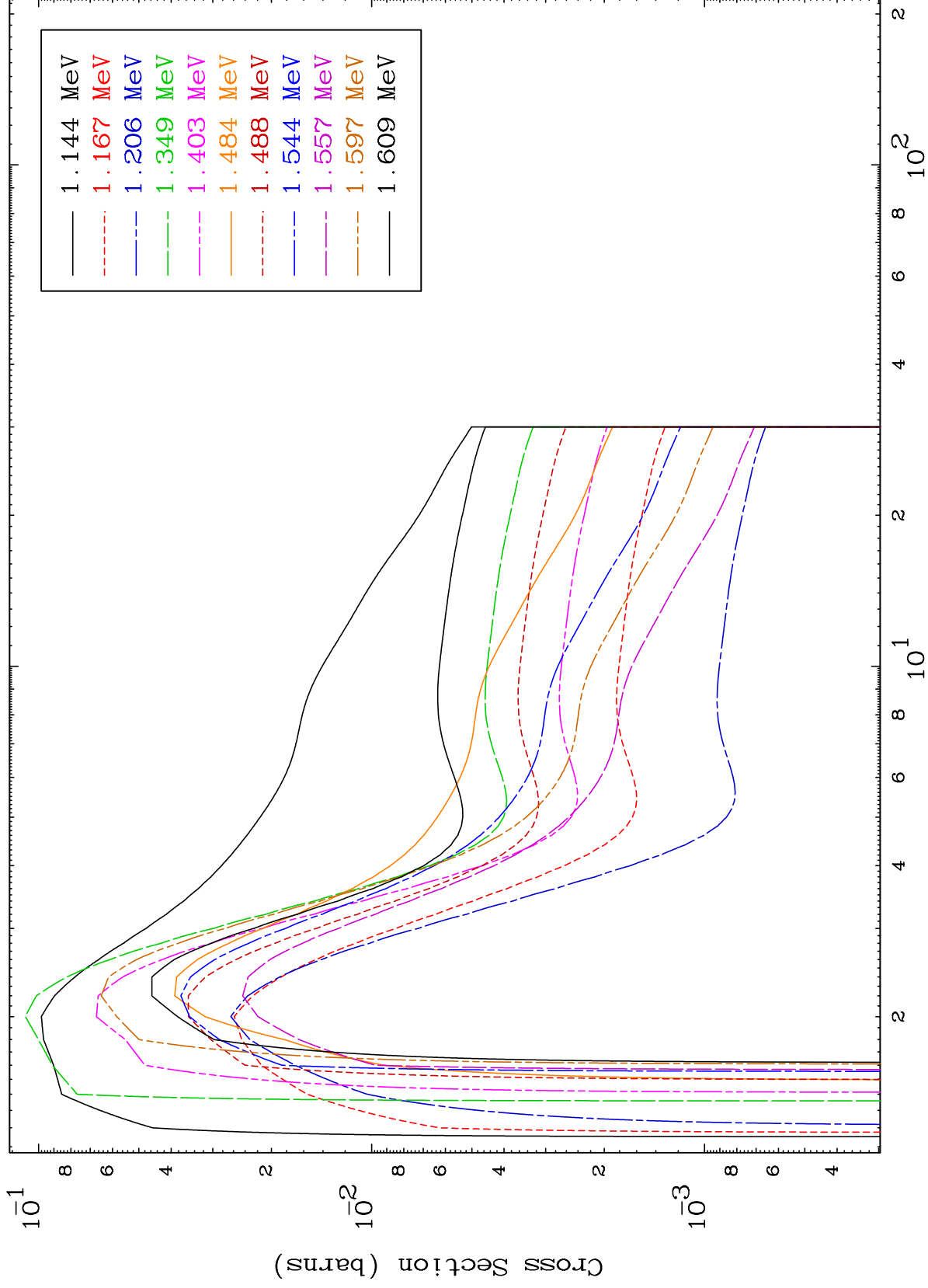




MAT 6416

(n,n') Level  
293 Kelvin Cross Sections

64-Gd-149



8

Incident Energy (MeV)

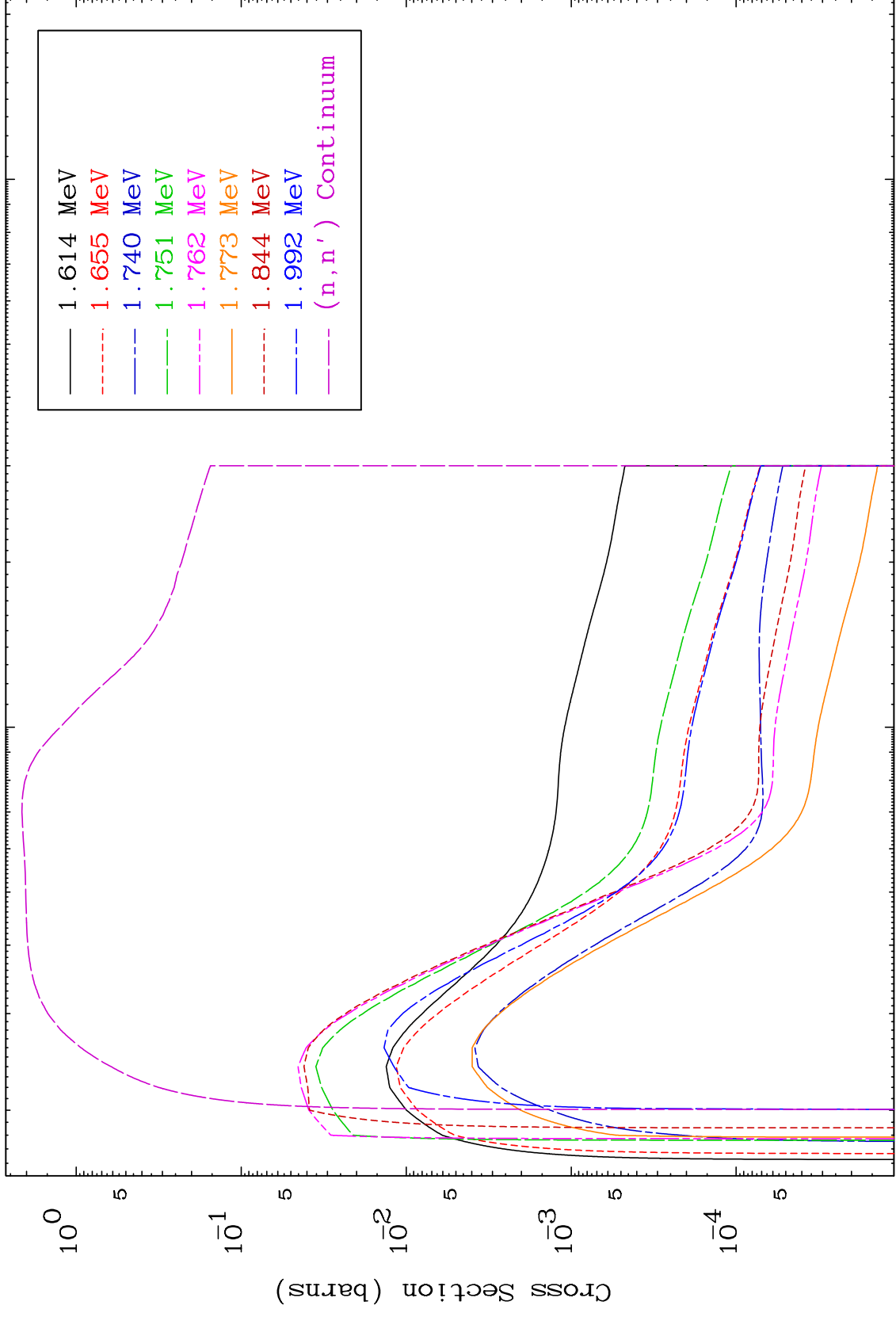
64-Gd-149

MAT 6416

(n,n') Level

64-Gd-149

293 Kelvin Cross Sections



64-Gd-149

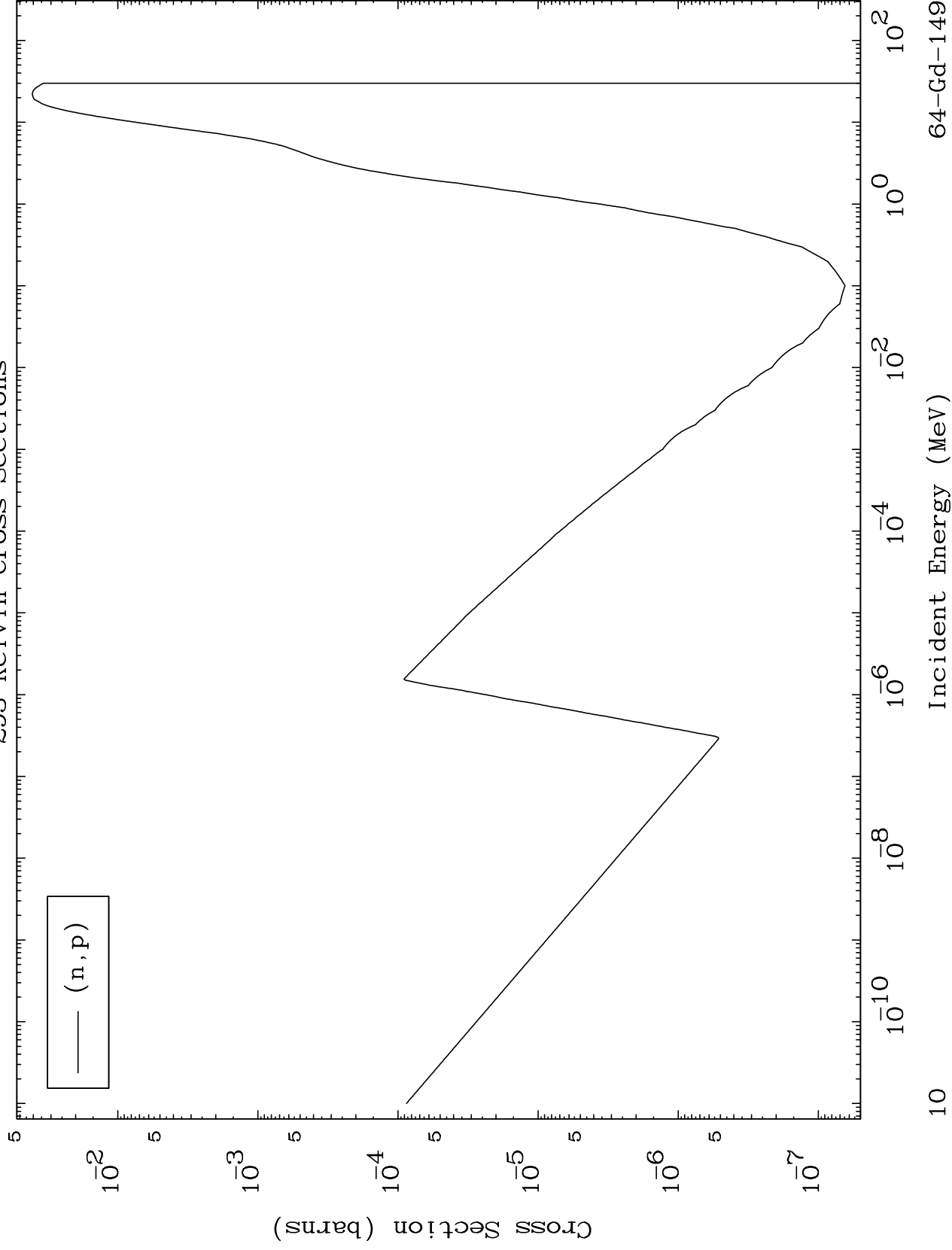
Incident Energy (MeV)

9

MAT 6416

(n,p) Levels  
293 Kelvin Cross Sections

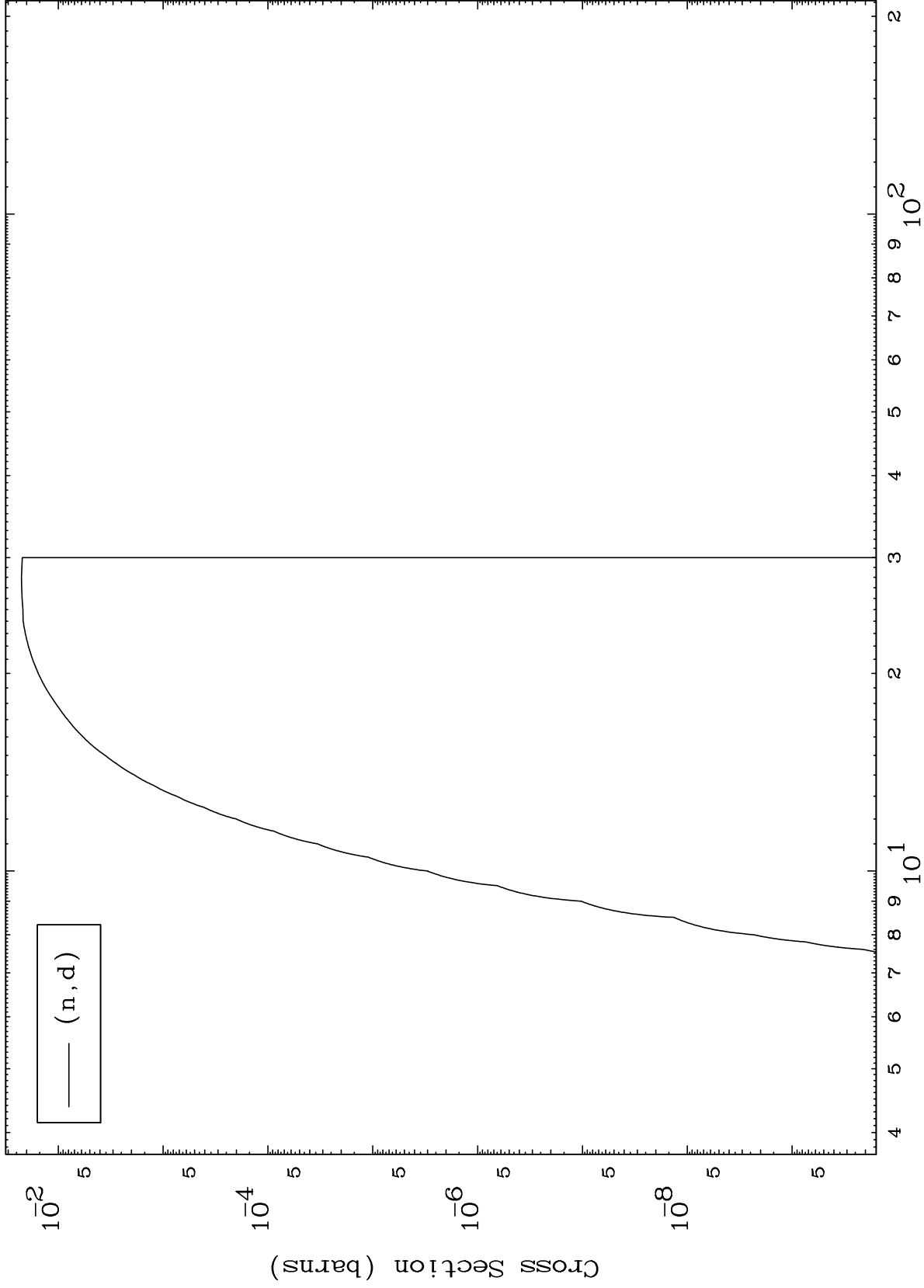
64-Gd-149



MAT 6416

(n,d) Levels  
293 Kelvin Cross Sections

64-Gd-149



11

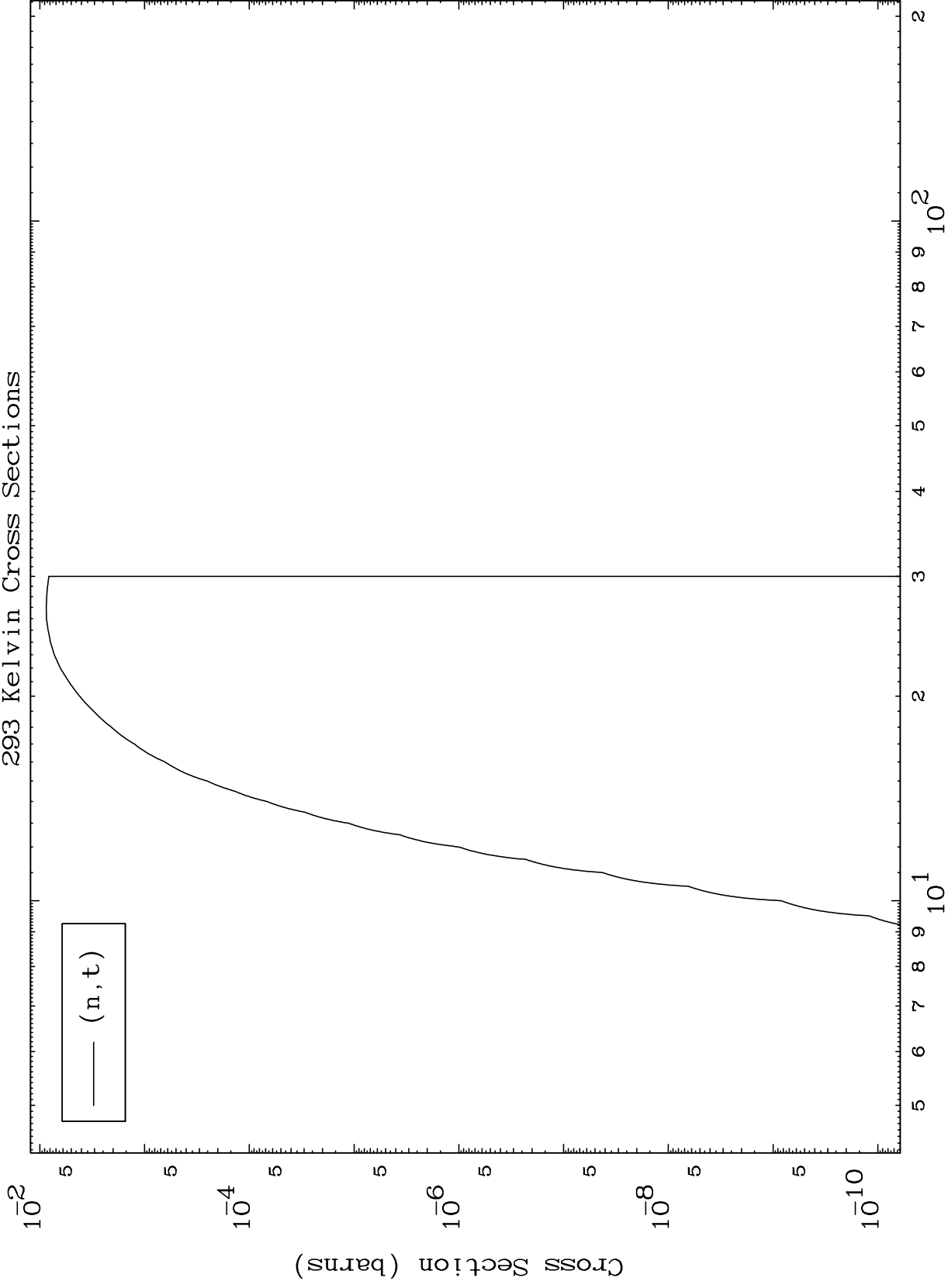
Incident Energy (MeV)

64-Gd-149

MAT 6416

(n,t) Levels  
293 Kelvin Cross Sections

64-Gd-149



12

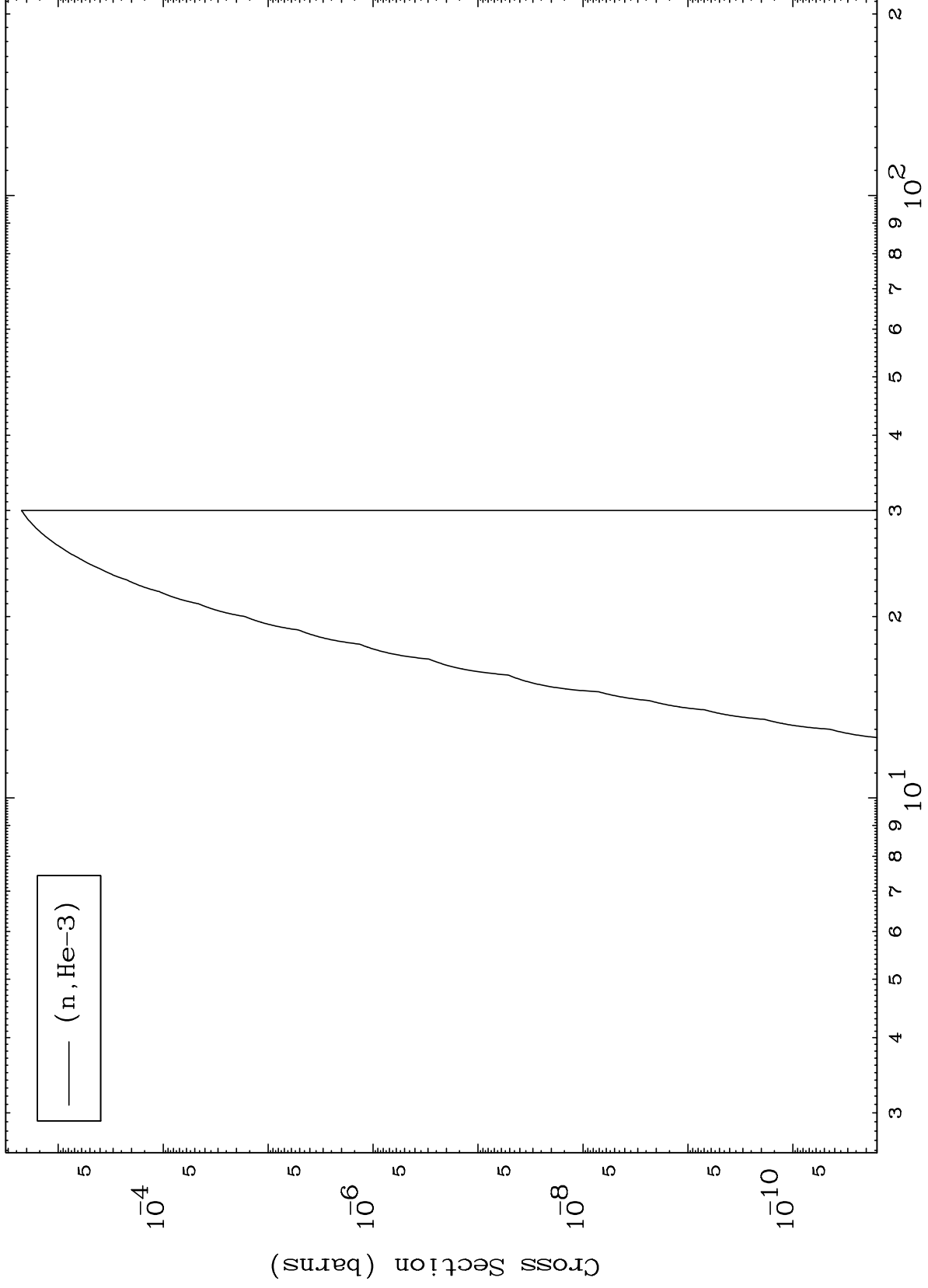
Incident Energy (MeV)

64-Gd-149

MAT 6416

(n,He3) Levels  
293 Kelvin Cross Sections

64-Gd-149



13

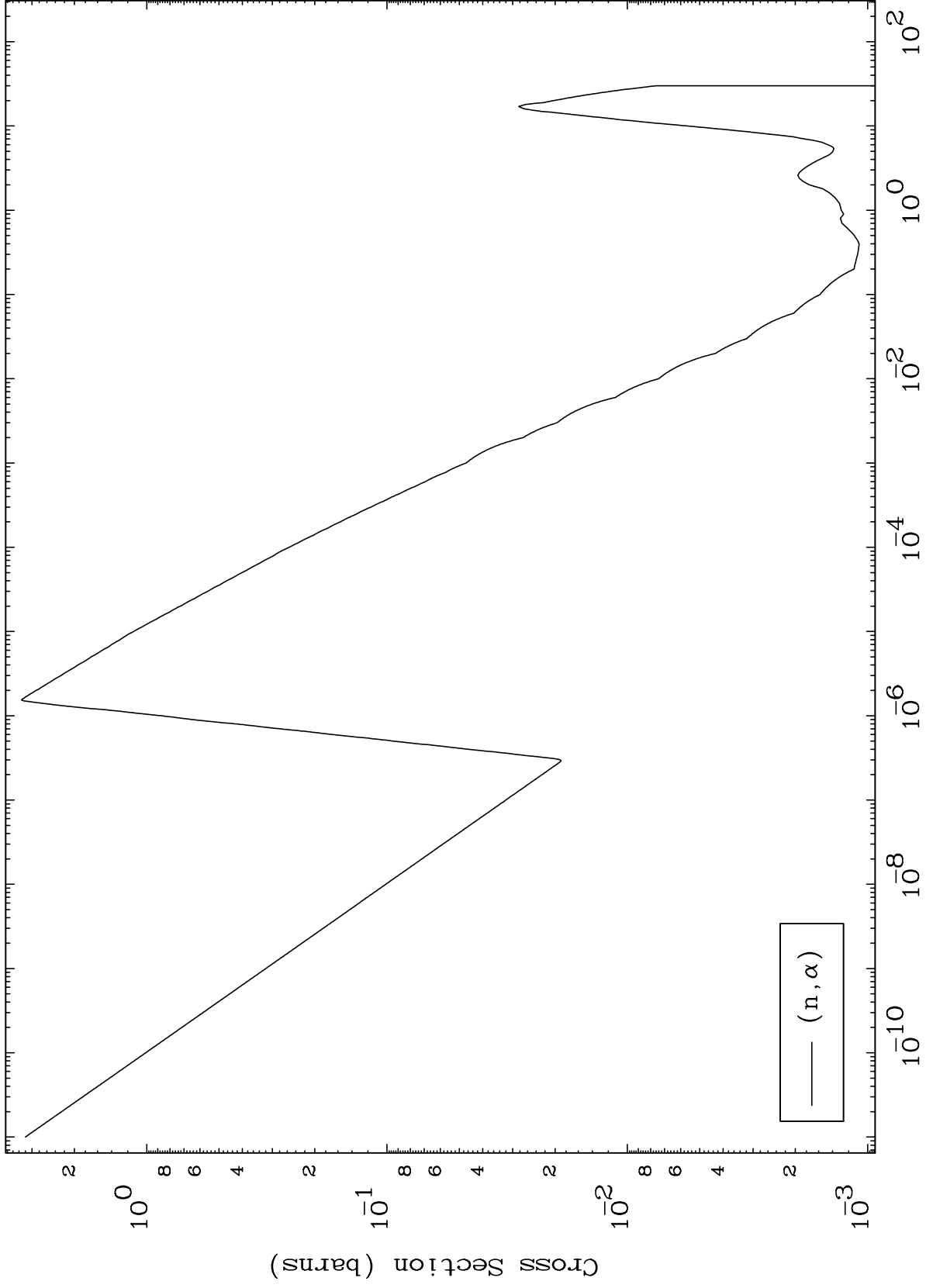
Incident Energy (MeV)

64-Gd-149

MAT 6416

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

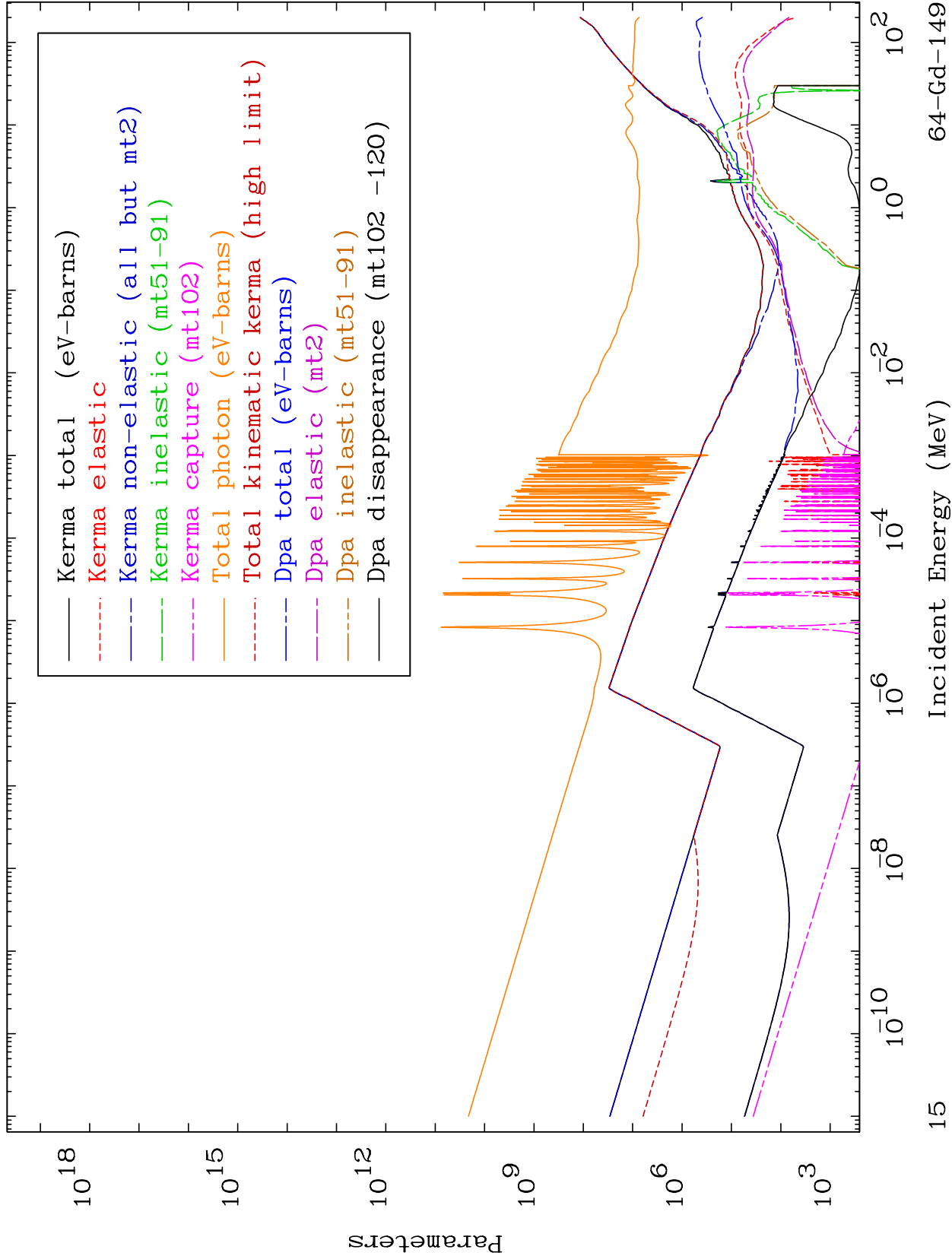
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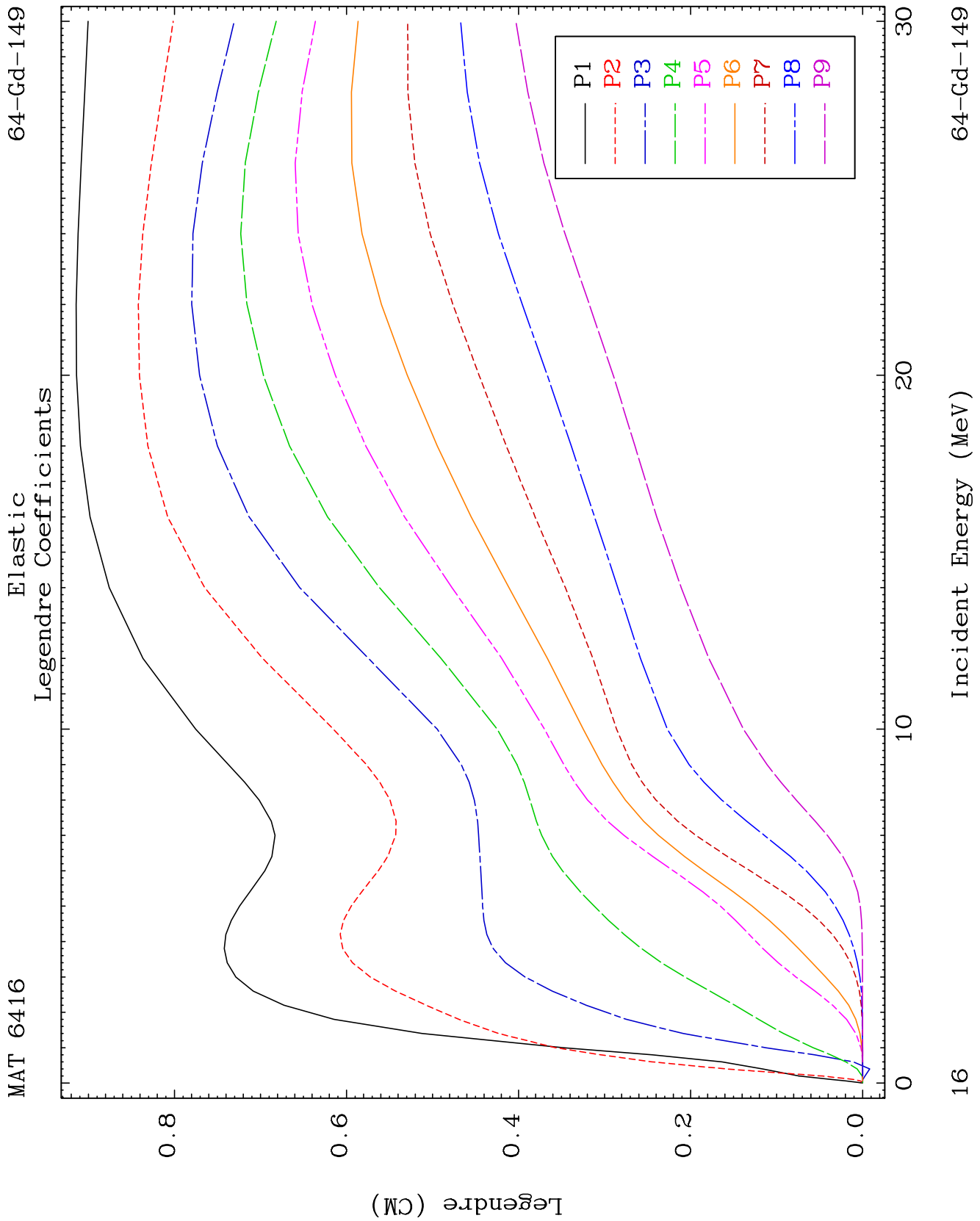
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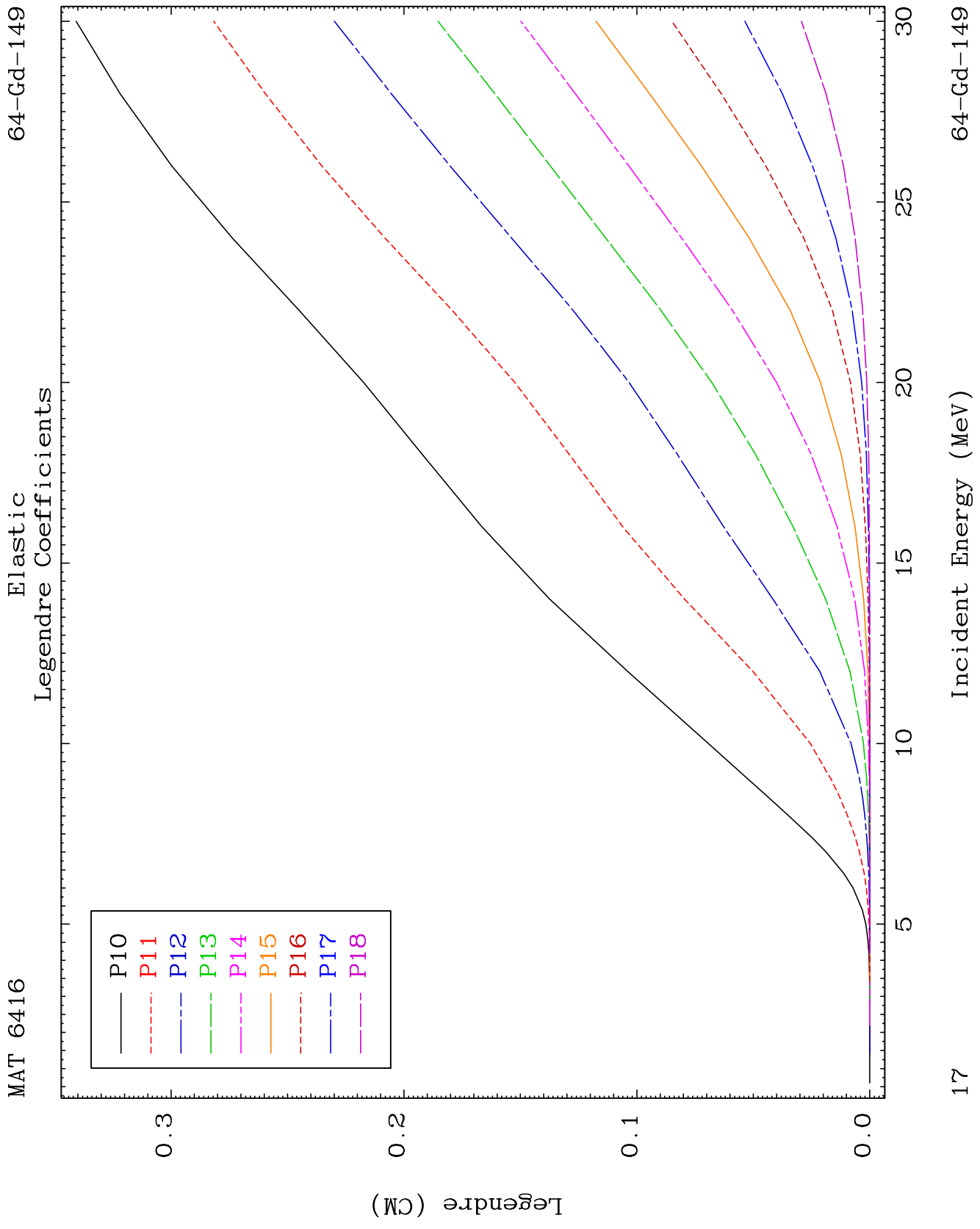
Incident Energy (MeV)

64-Gd-149





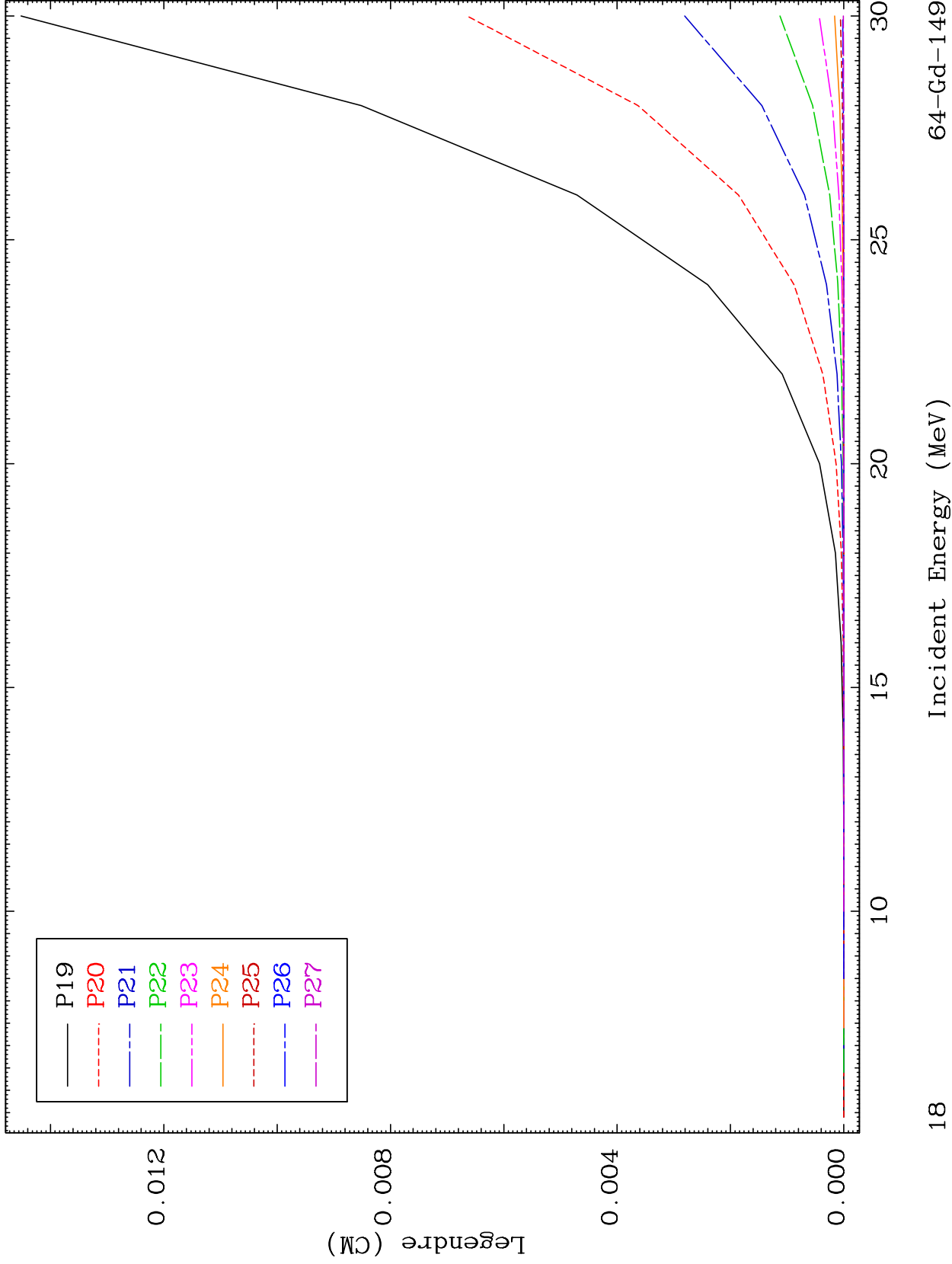




MAT 6416

### Elastic Legendre Coefficients

64-Gd-149



18

Incident Energy (MeV)

64-Gd-149

30

25

20

15

10

Legendre (CM)

0.012

0.008

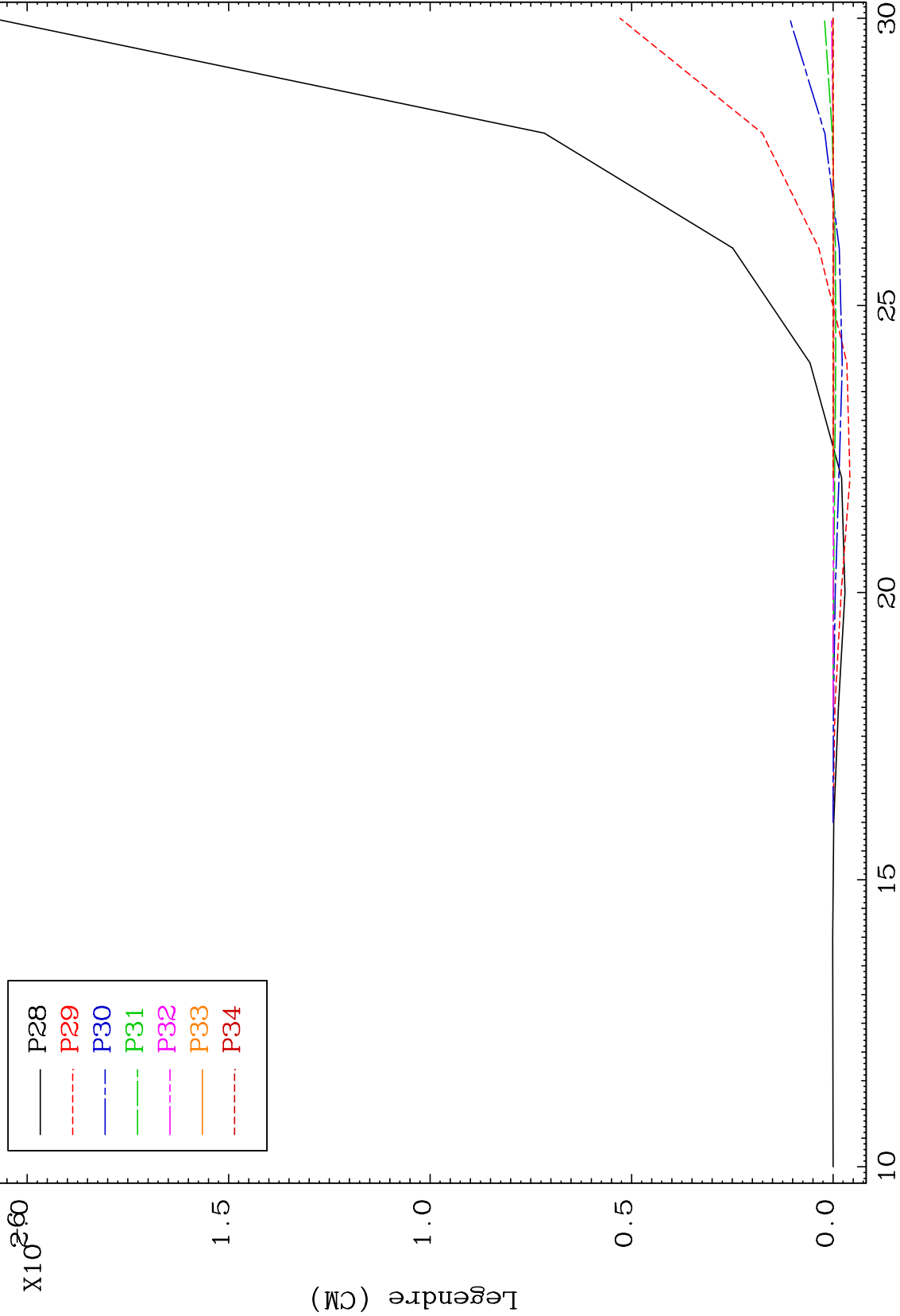
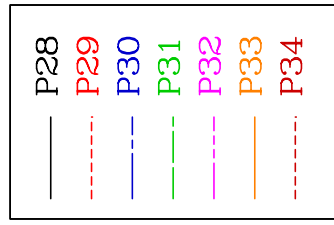
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0.000

MAT 6416

Elastic Legendre Coefficients

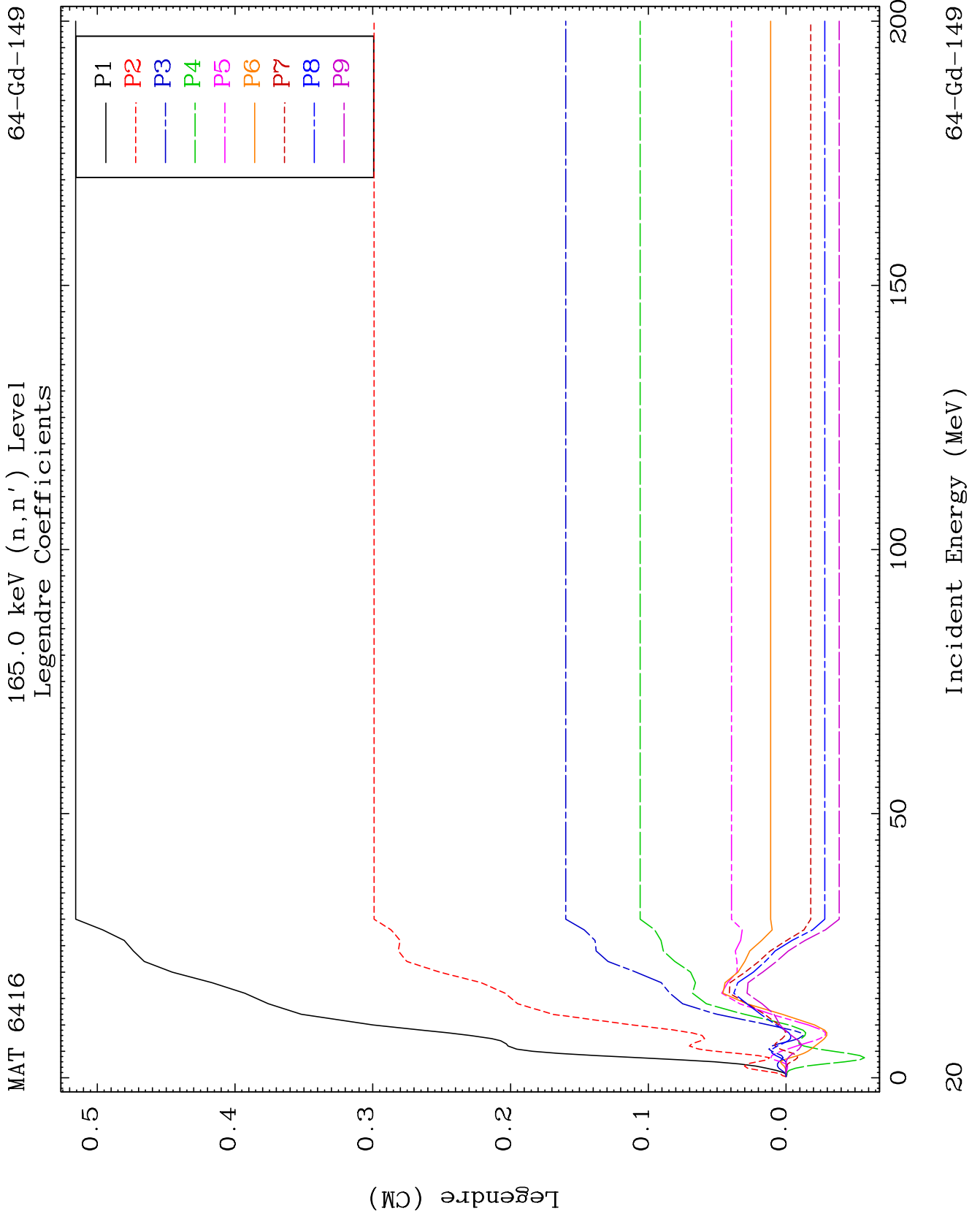
64-Gd-149



19

Incident Energy (MeV)

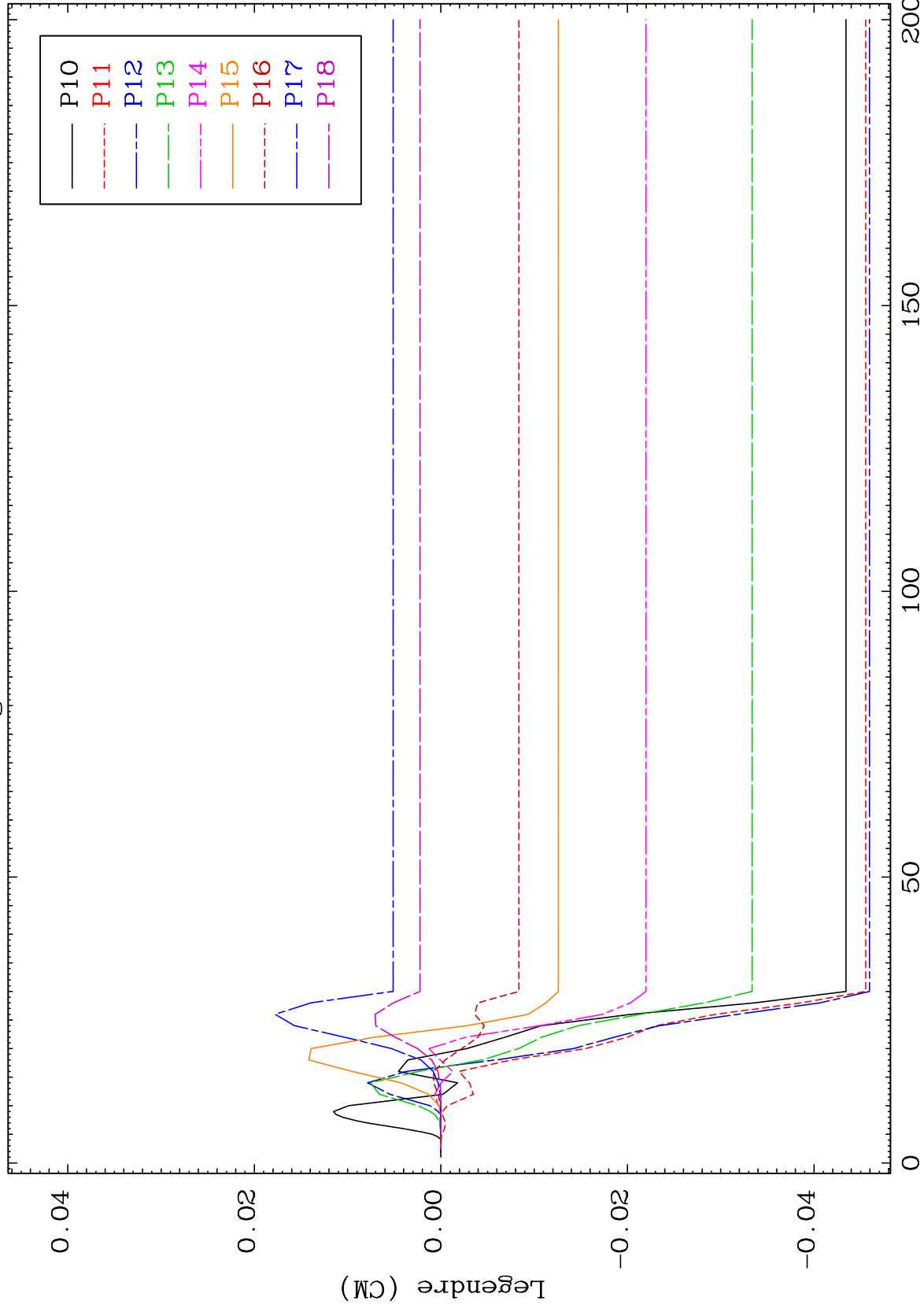
64-Gd-149



MAT 6416

165.0 keV (n,n') Level  
Legendre Coefficients

64-Gd-149



21

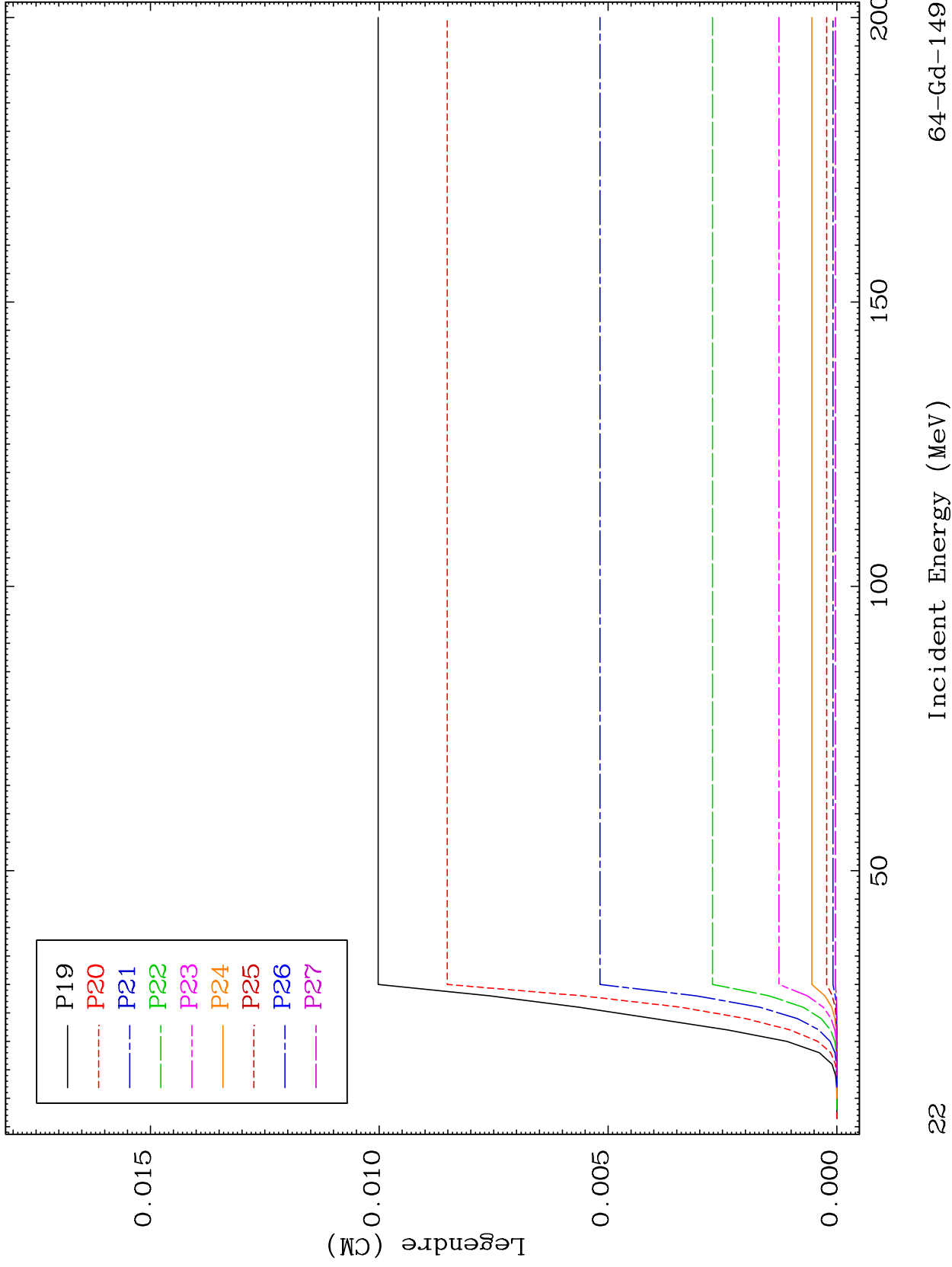
Incident Energy (MeV)

64-Gd-149

MAT 6416

165.0 keV (n,n') Level  
Legendre Coefficients

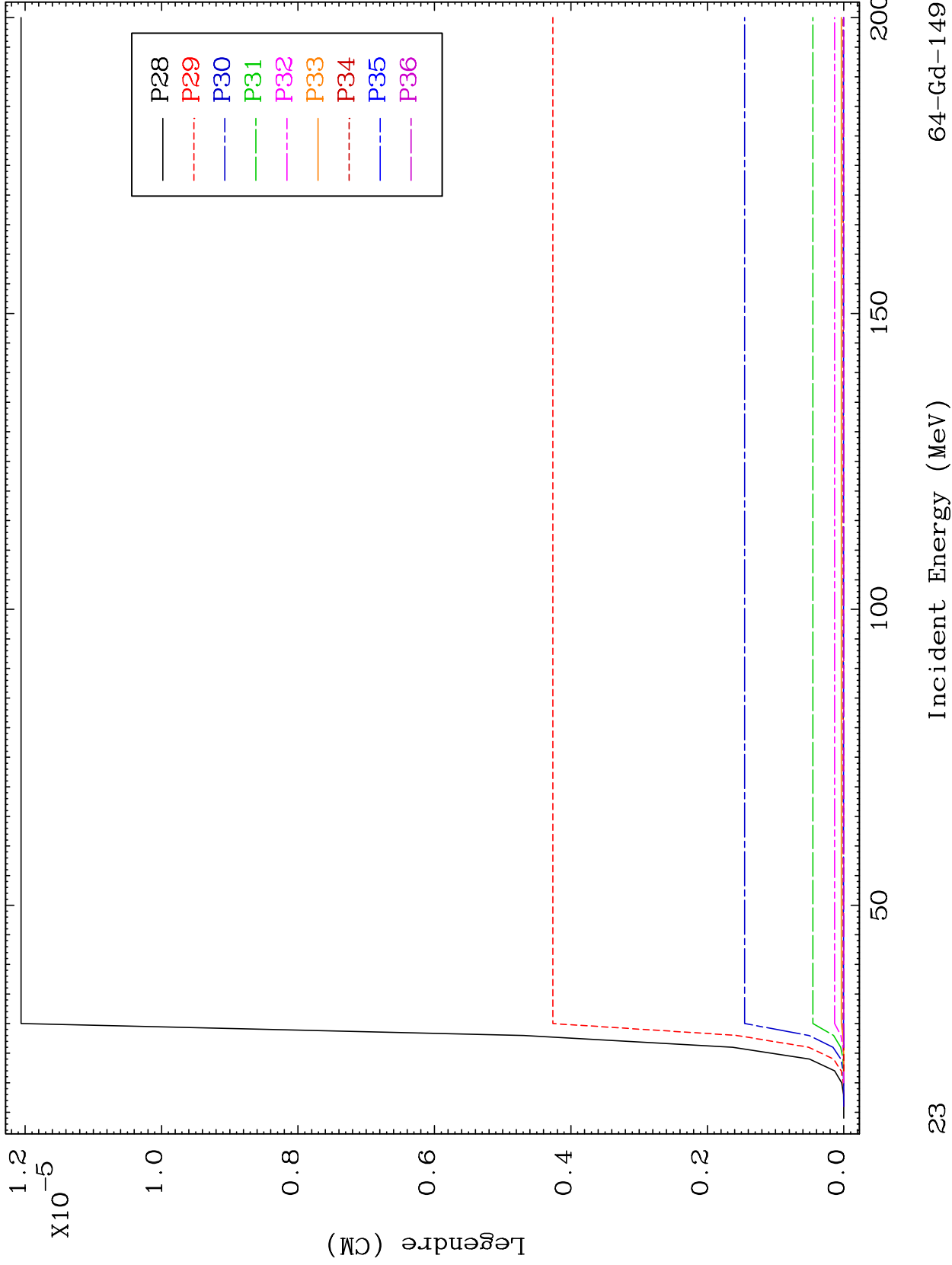
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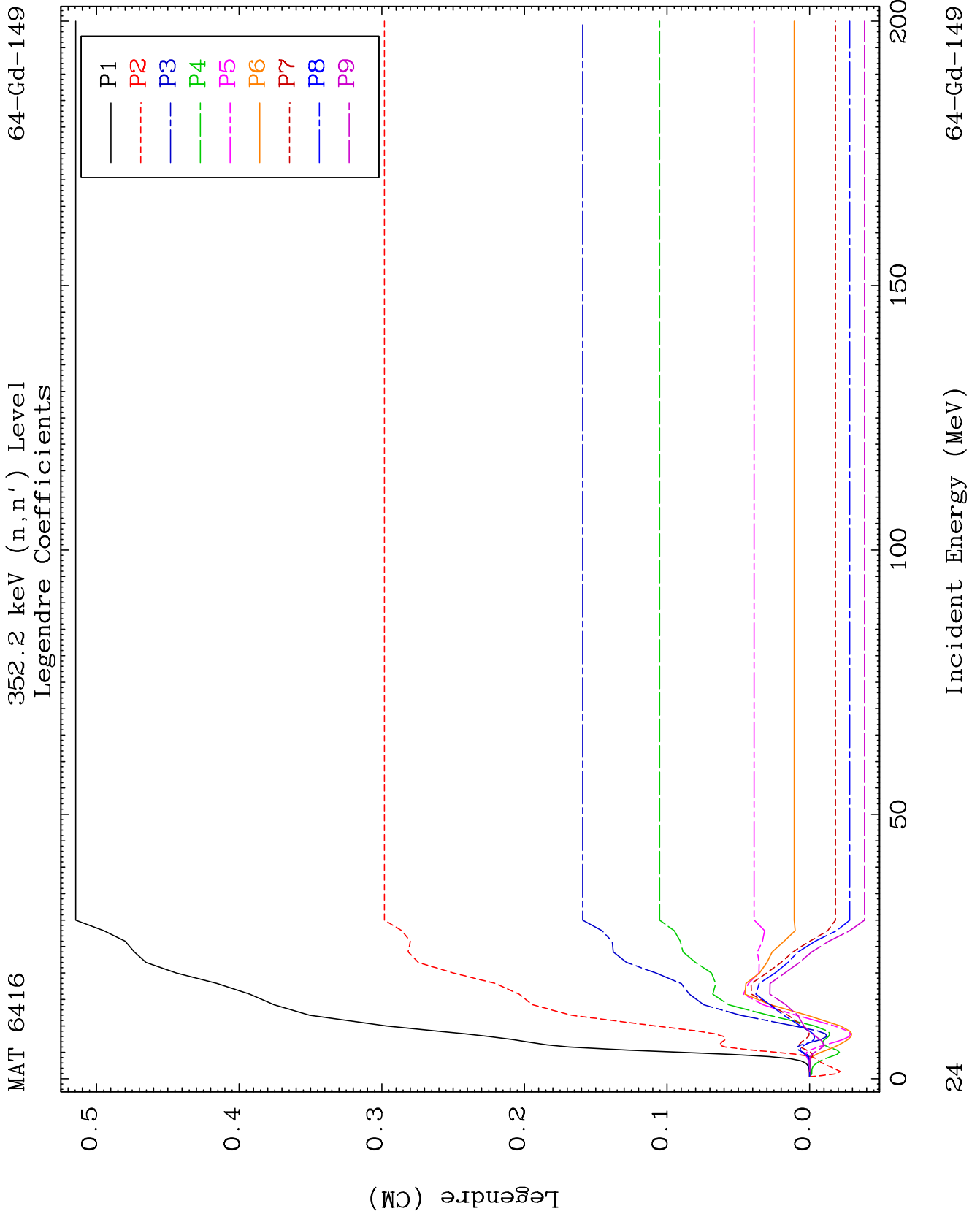
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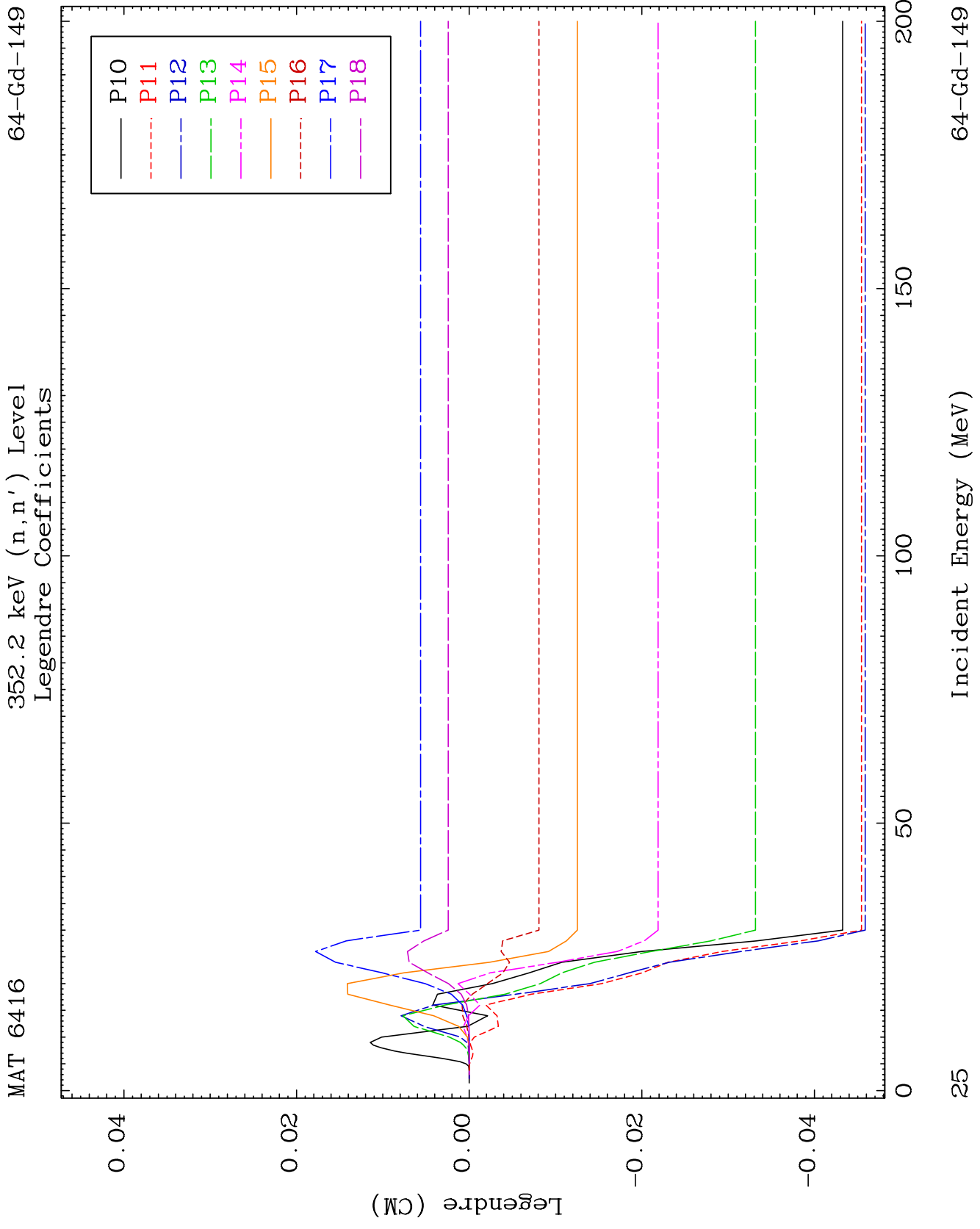
Incident Energy (MeV)

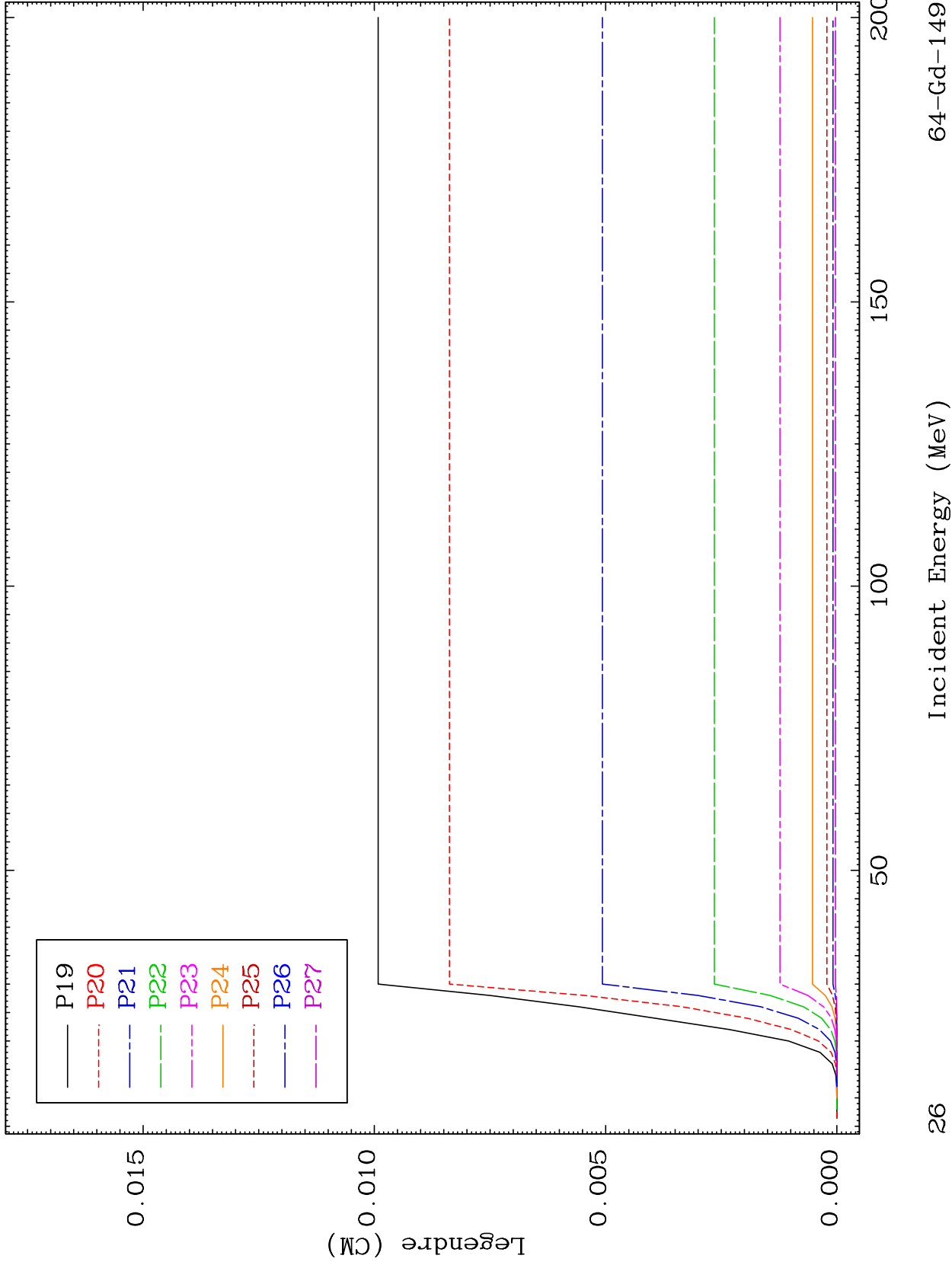
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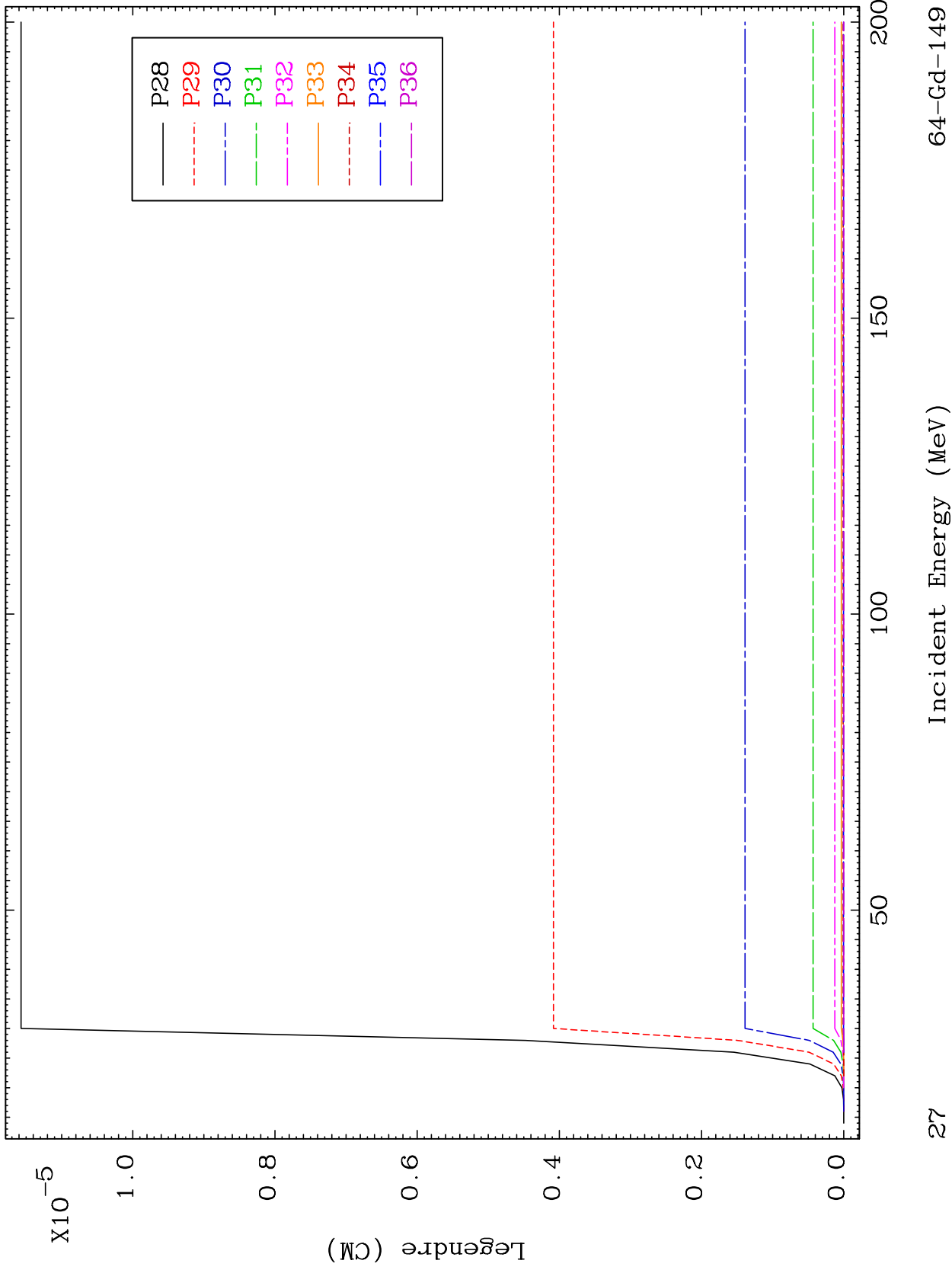








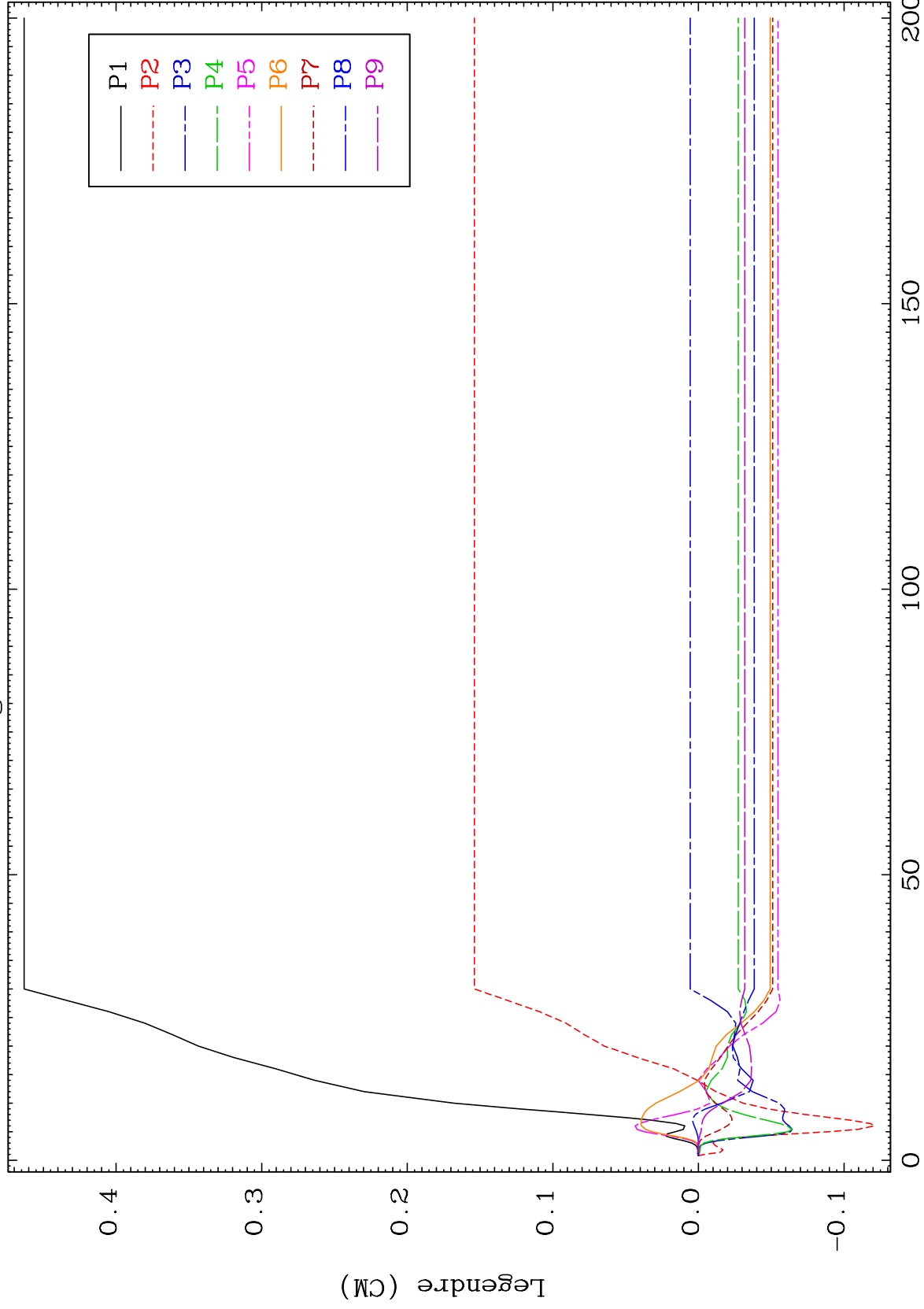




MAT 6416

775.2 keV (n,n') Level  
Legendre Coefficients

64-Gd-149



64-Gd-149

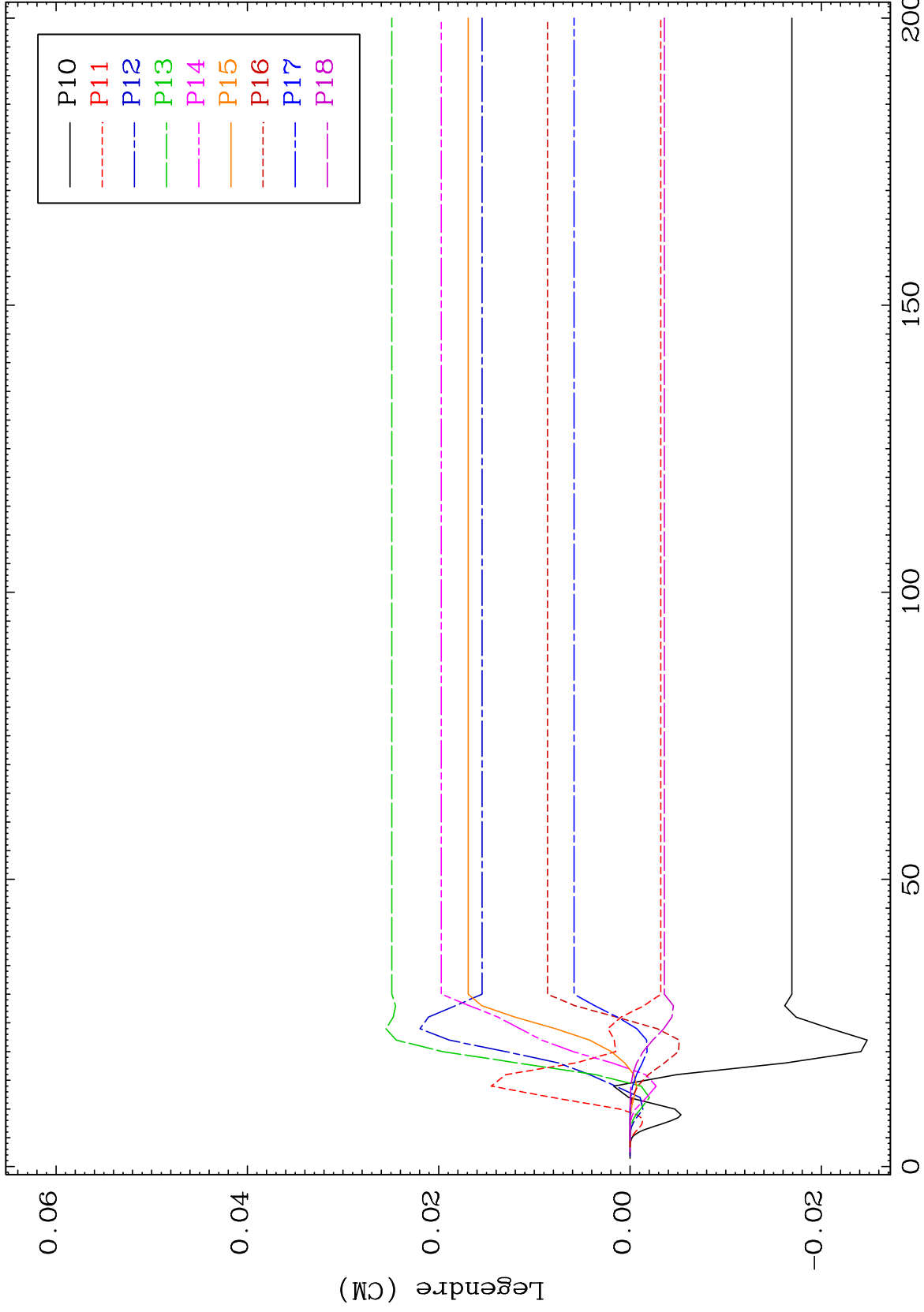
Incident Energy (MeV)

28

MAT 6416

775.2 keV (n,n') Level  
Legendre Coefficients

64-Gd-149



29

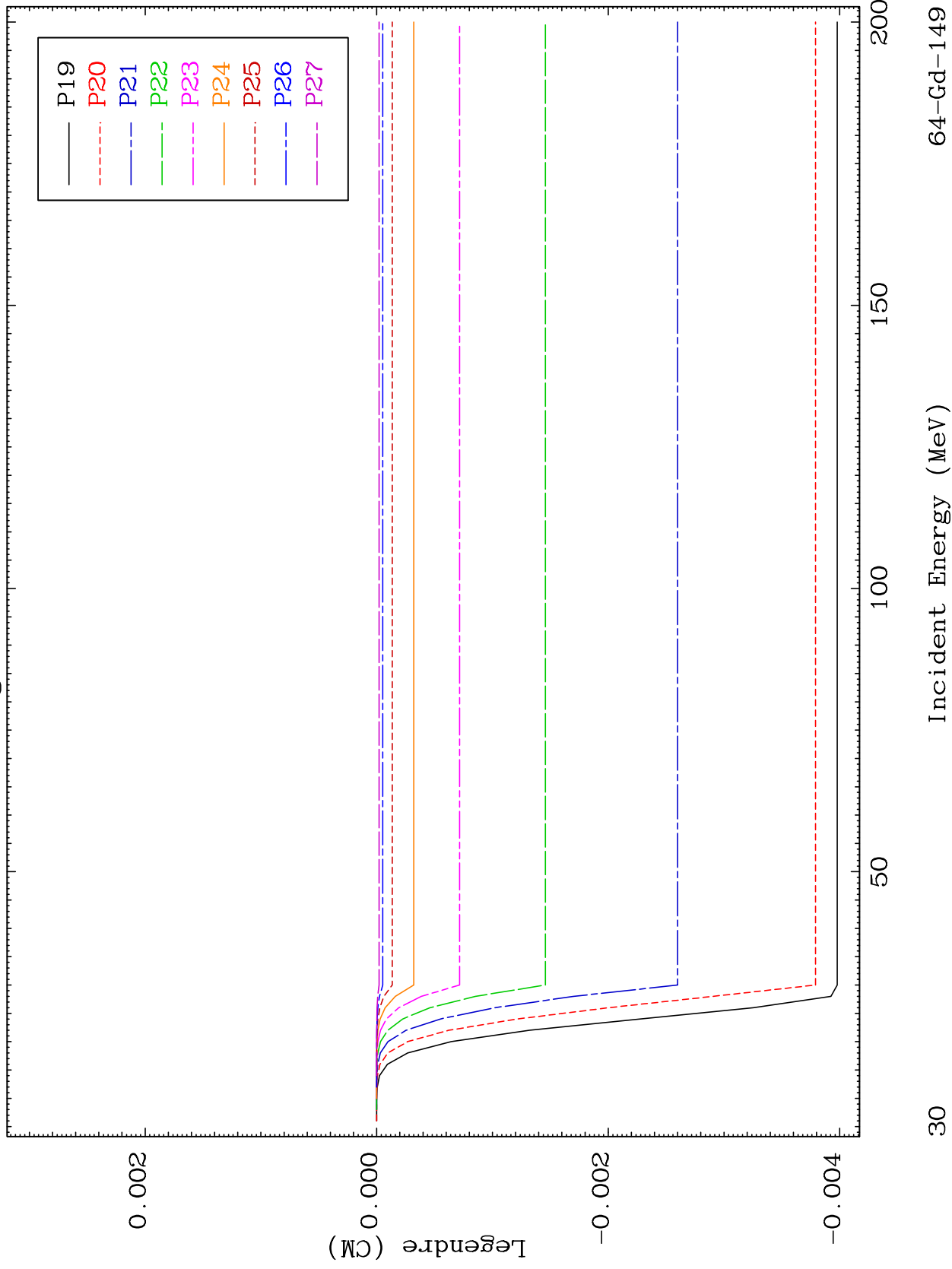
Incident Energy (MeV)

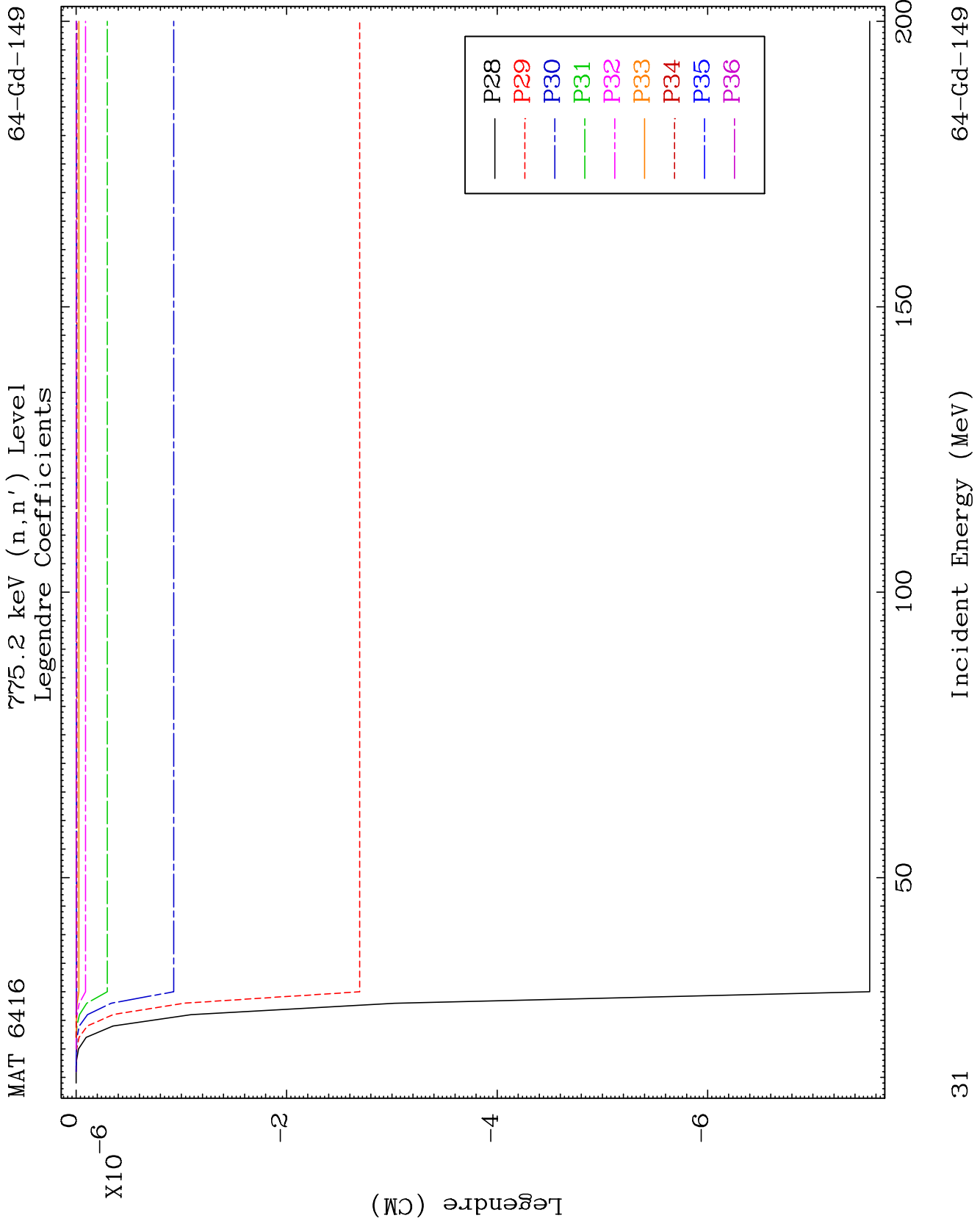
64-Gd-149

MAT 6416

775.2 keV (n,n') Level  
Legendre Coefficients

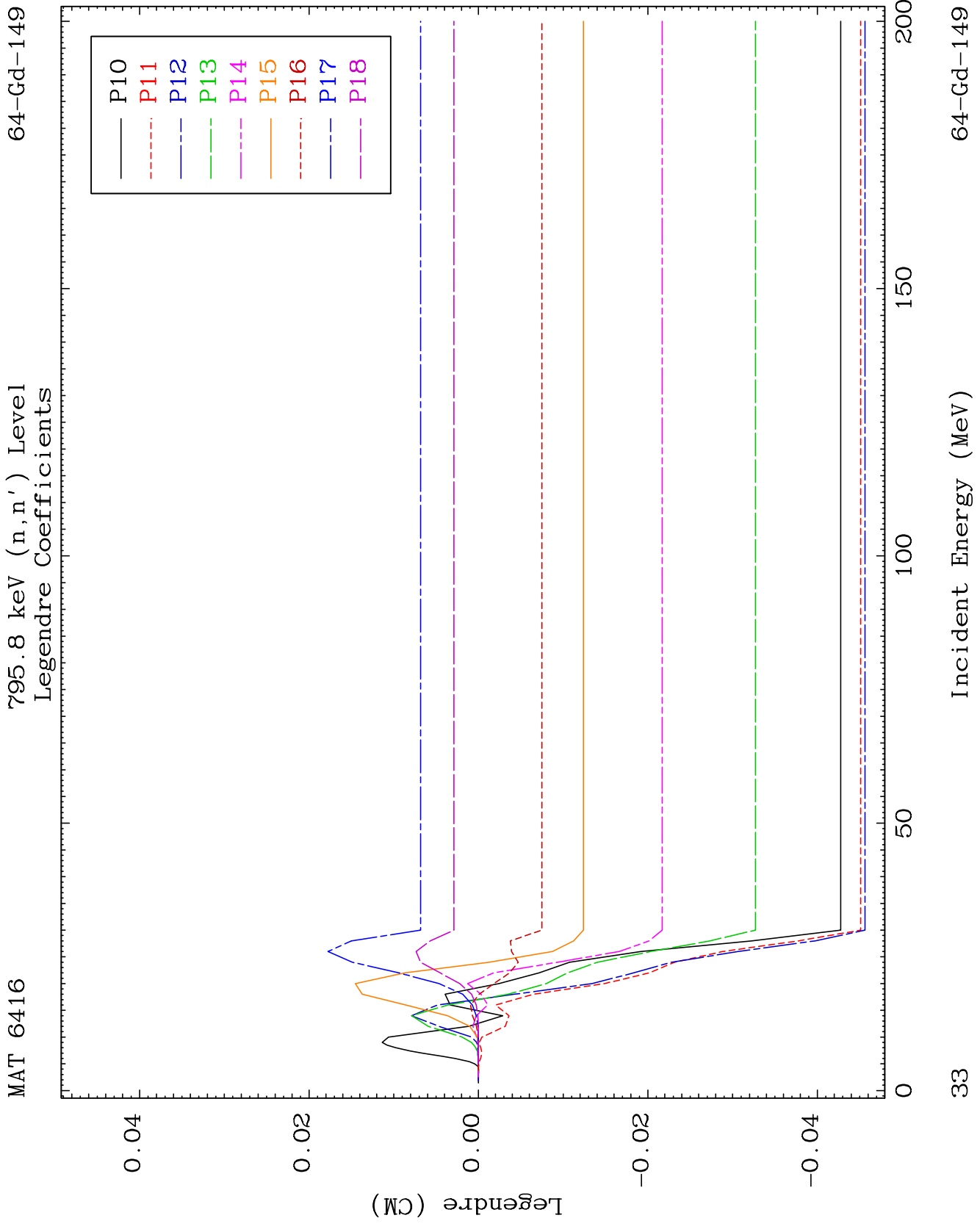
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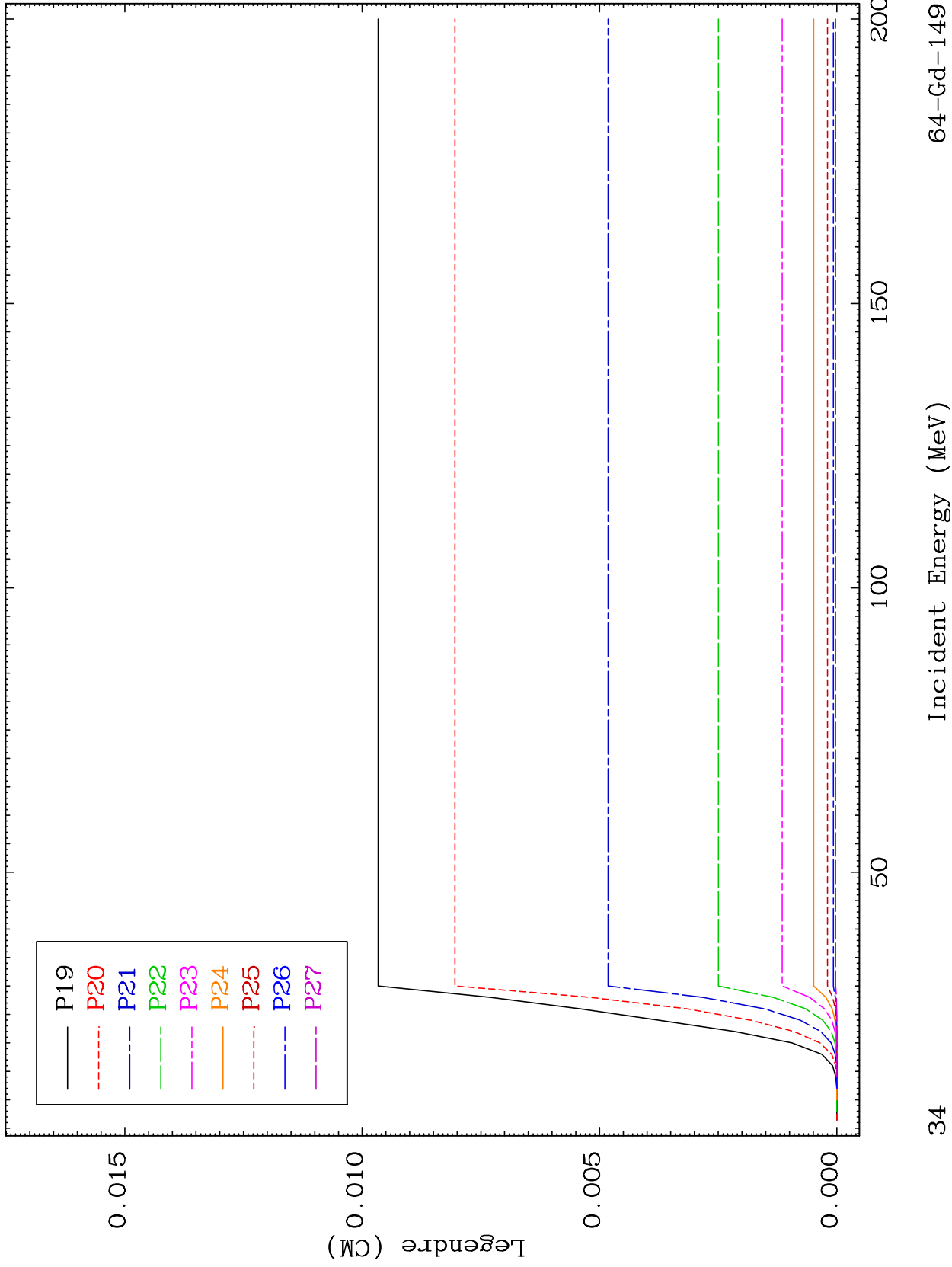




MAT 6416

795.8 keV (n,n') Level  
Legendre Coefficients

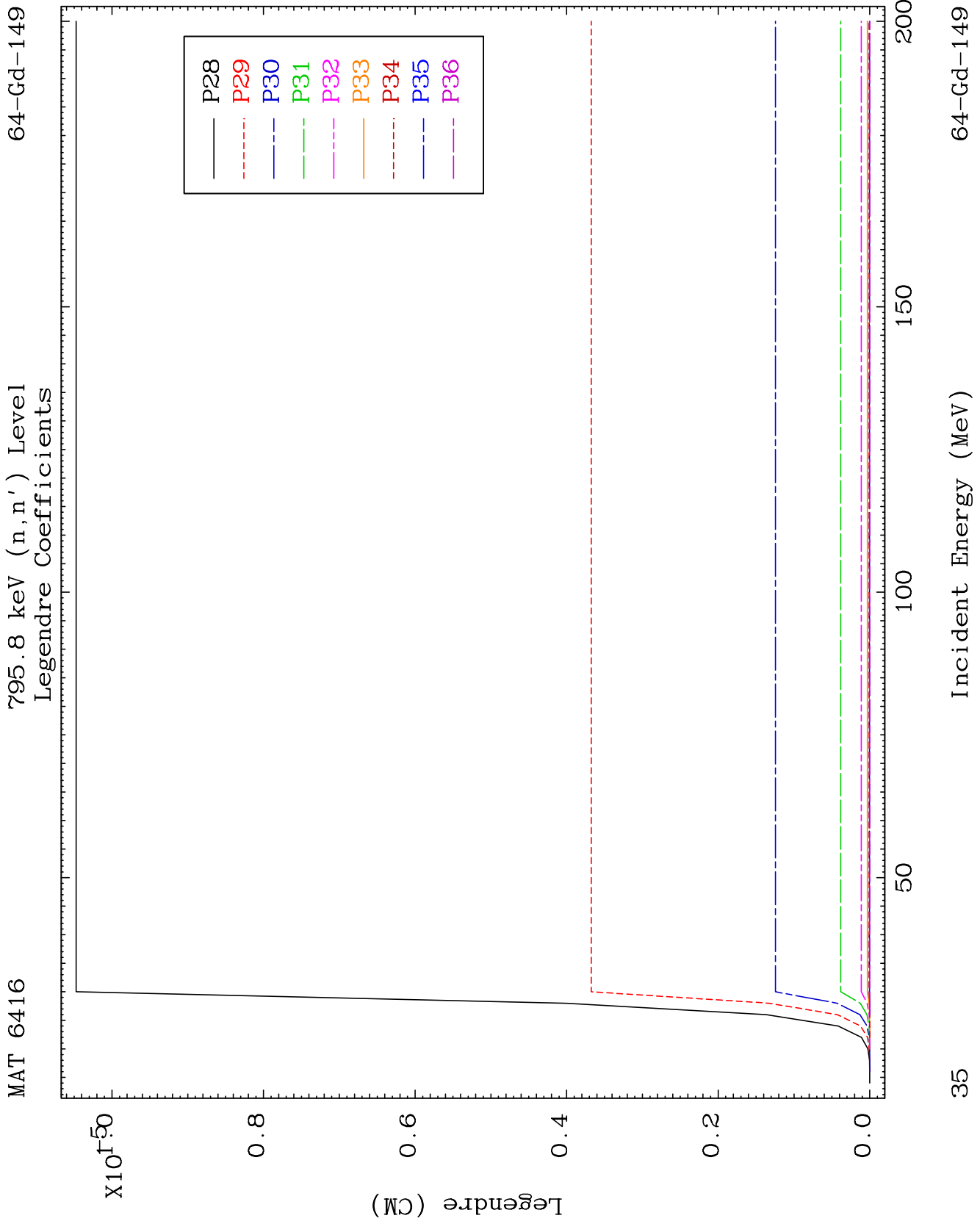
64-Gd-149



34

Incident Energy (MeV)

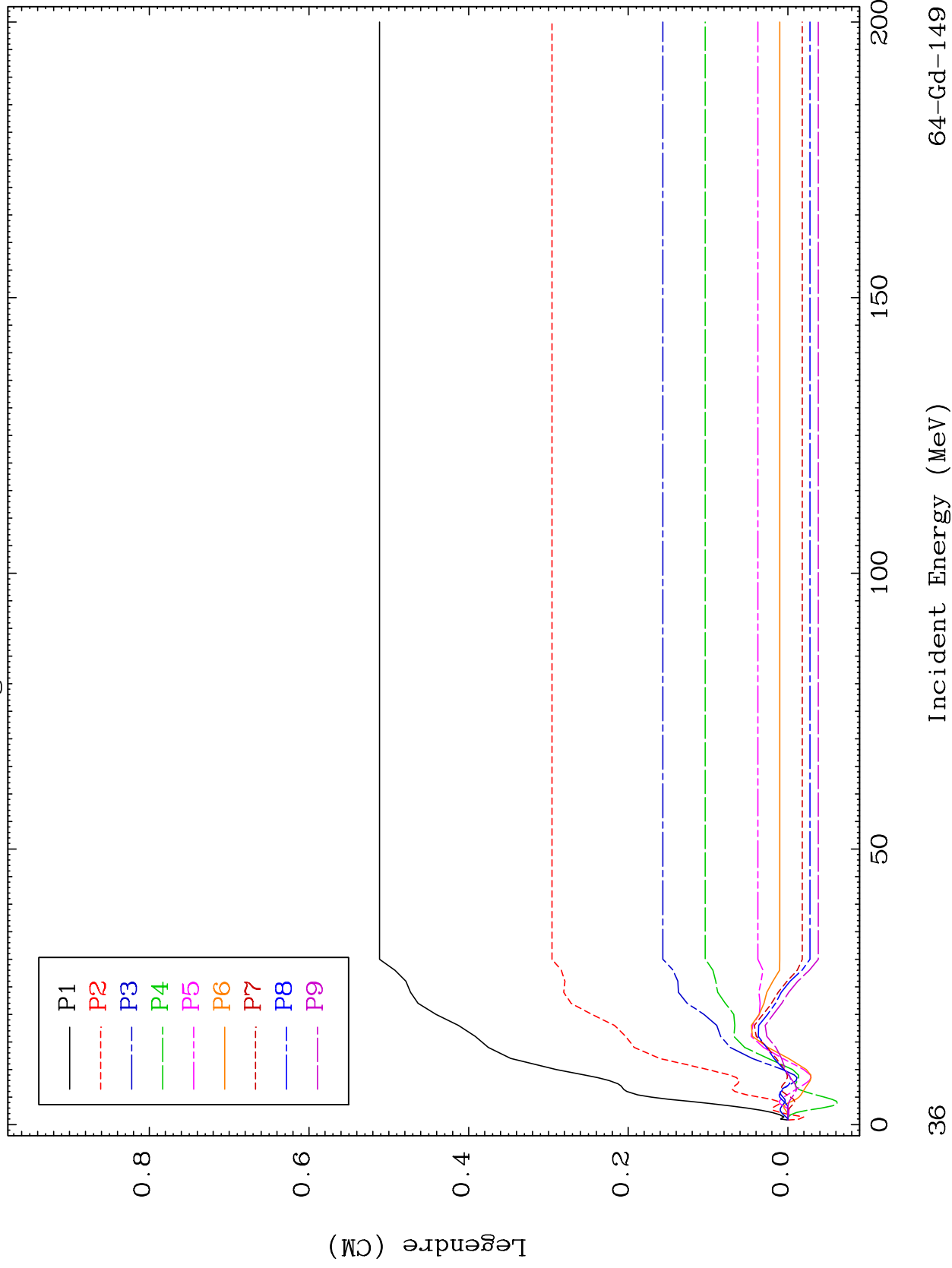
64-Gd-149



MAT 6416

817.1 keV (n,n') Level  
Legendre Coefficients

64-Gd-149



64-Gd-149

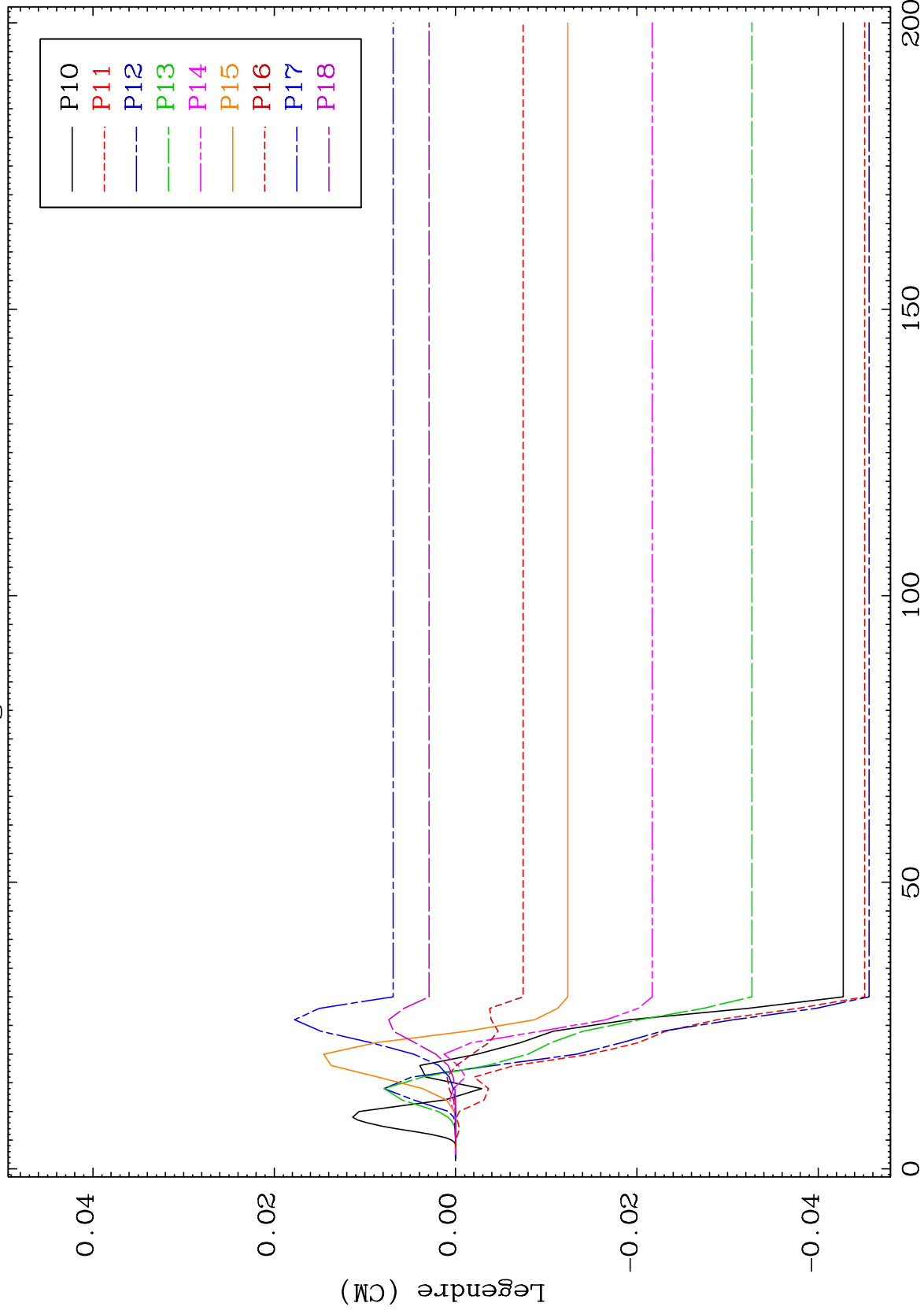
Incident Energy (MeV)

36

MAT 6416

817.1 keV (n,n') Level  
Legendre Coefficients

64-Gd-149



37

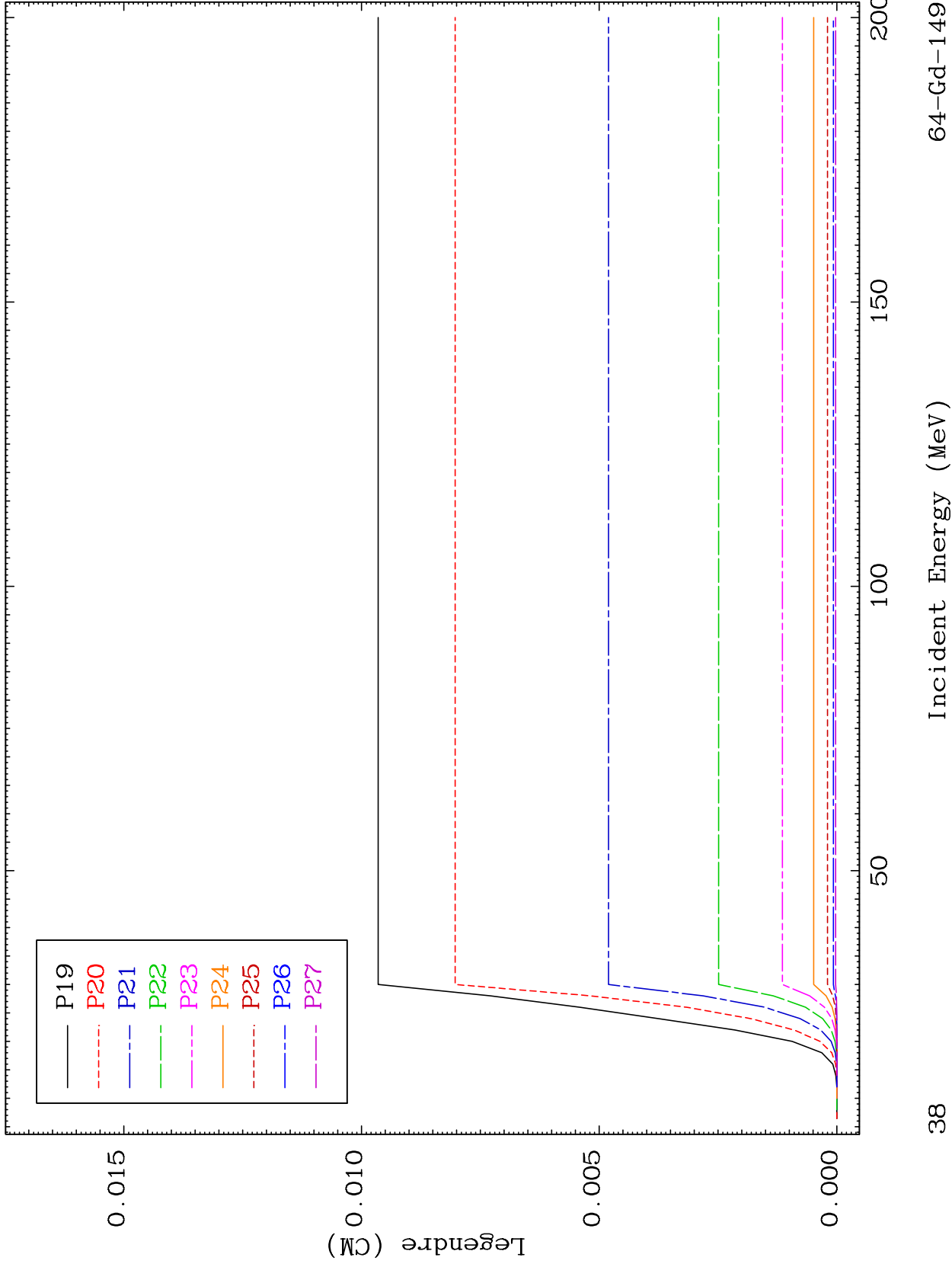
Incident Energy (MeV)

64-Gd-149

MAT 6416

817.1 keV (n,n') Level  
Legendre Coefficients

64-Gd-149



38

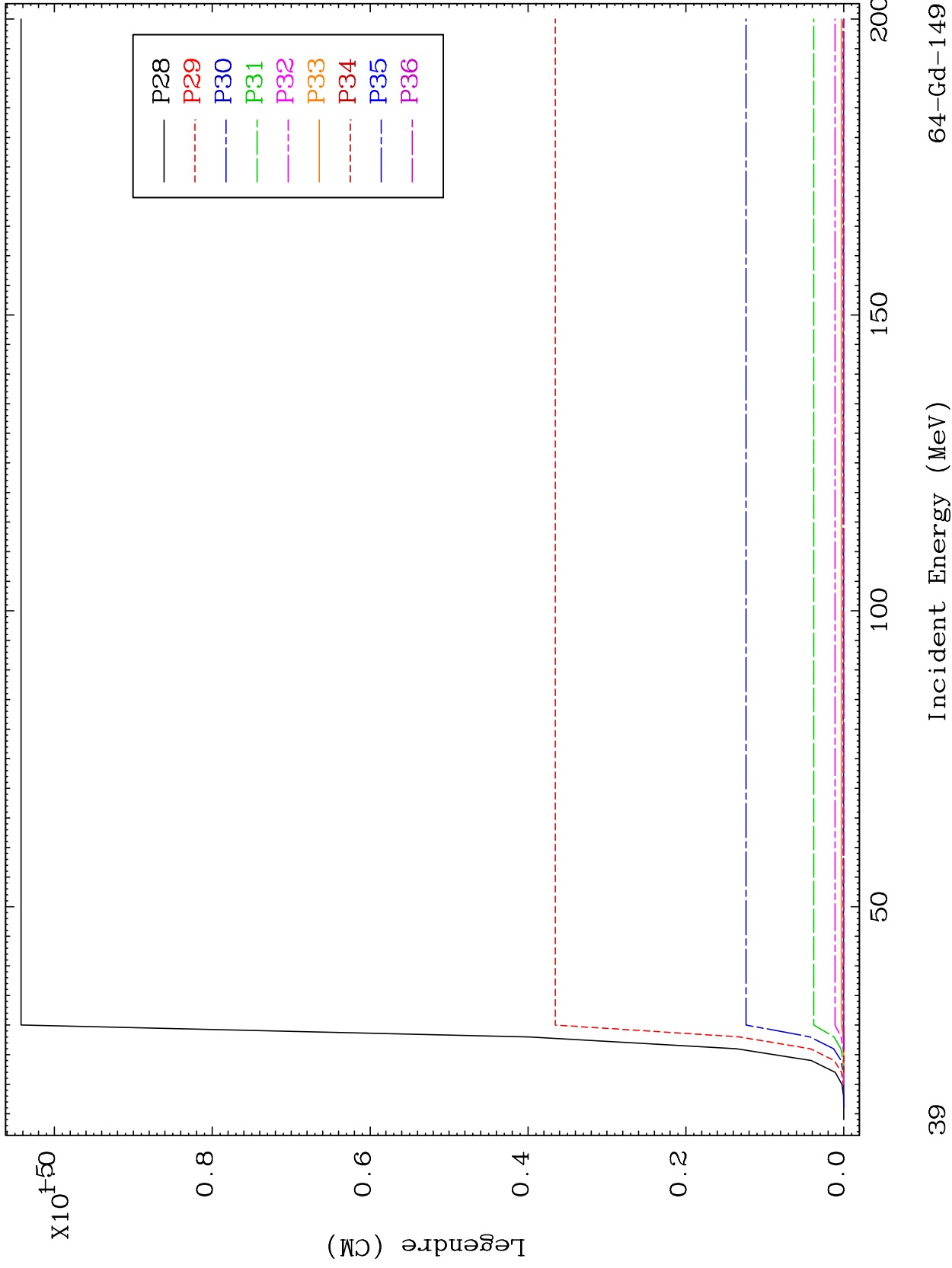
Incident Energy (MeV)

64-Gd-149

MAT 6416

817.1 keV (n,n') Level  
Legendre Coefficients

64-Gd-149



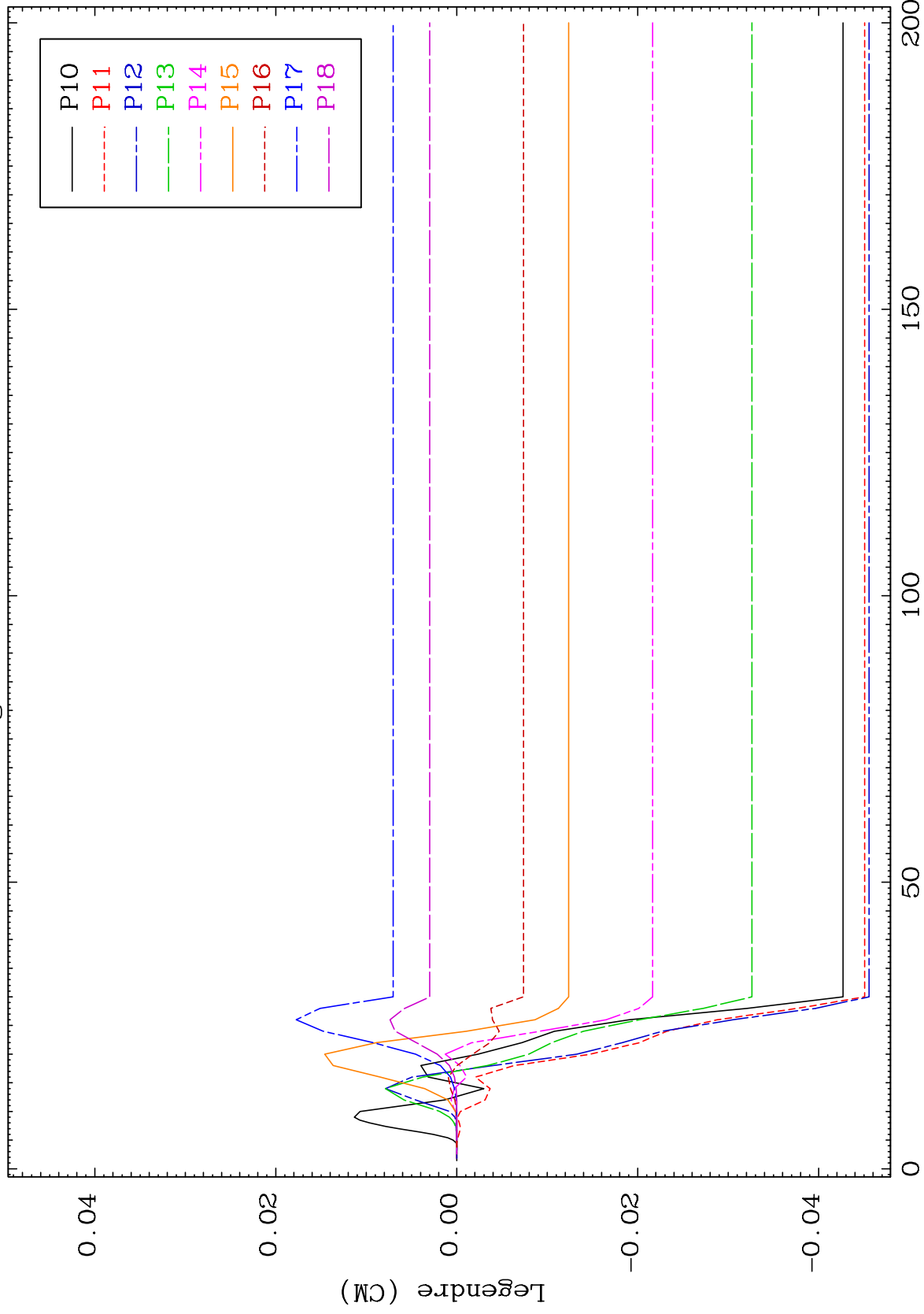




MAT 6416

873.3 keV (n,n') Level  
Legendre Coefficients

64-Gd-149



41

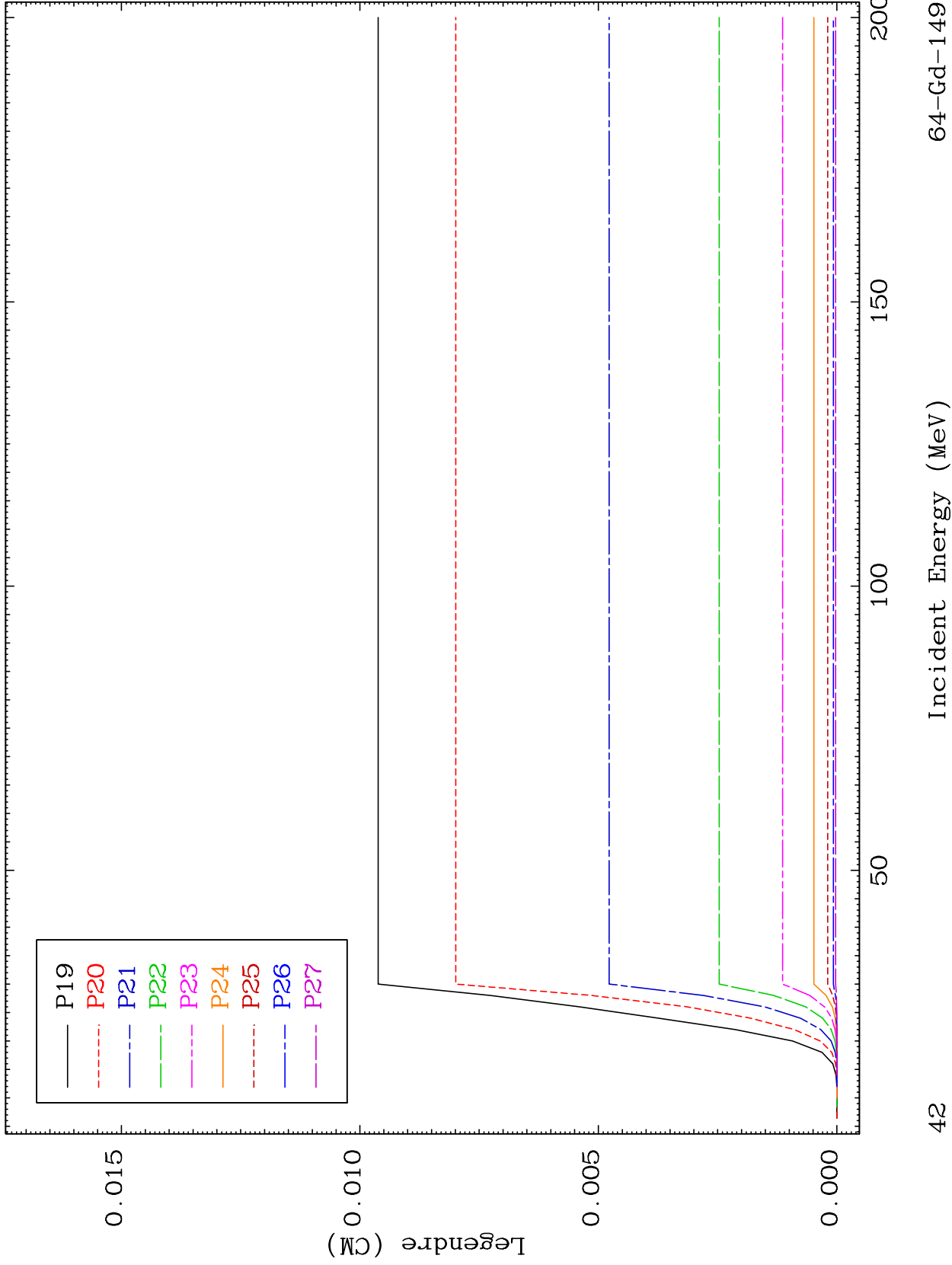
Incident Energy (MeV)

64-Gd-149

MAT 6416

873.3 keV (n,n') Level  
Legendre Coefficients

64-Gd-149



42

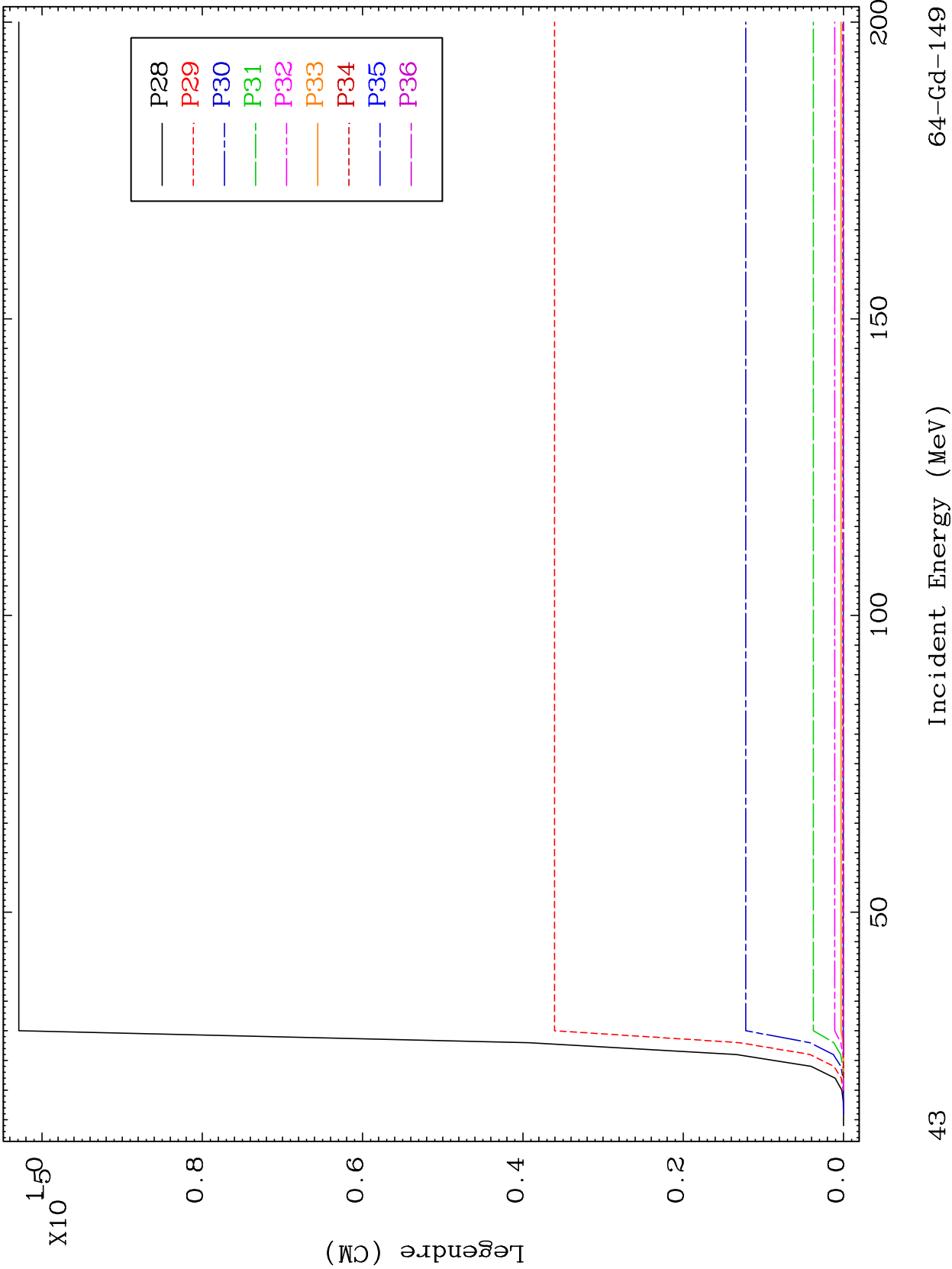
Incident Energy (MeV)

64-Gd-149

MAT 6416

873.3 keV (n, n') Level  
Legendre Coefficients

64-Gd-149



43

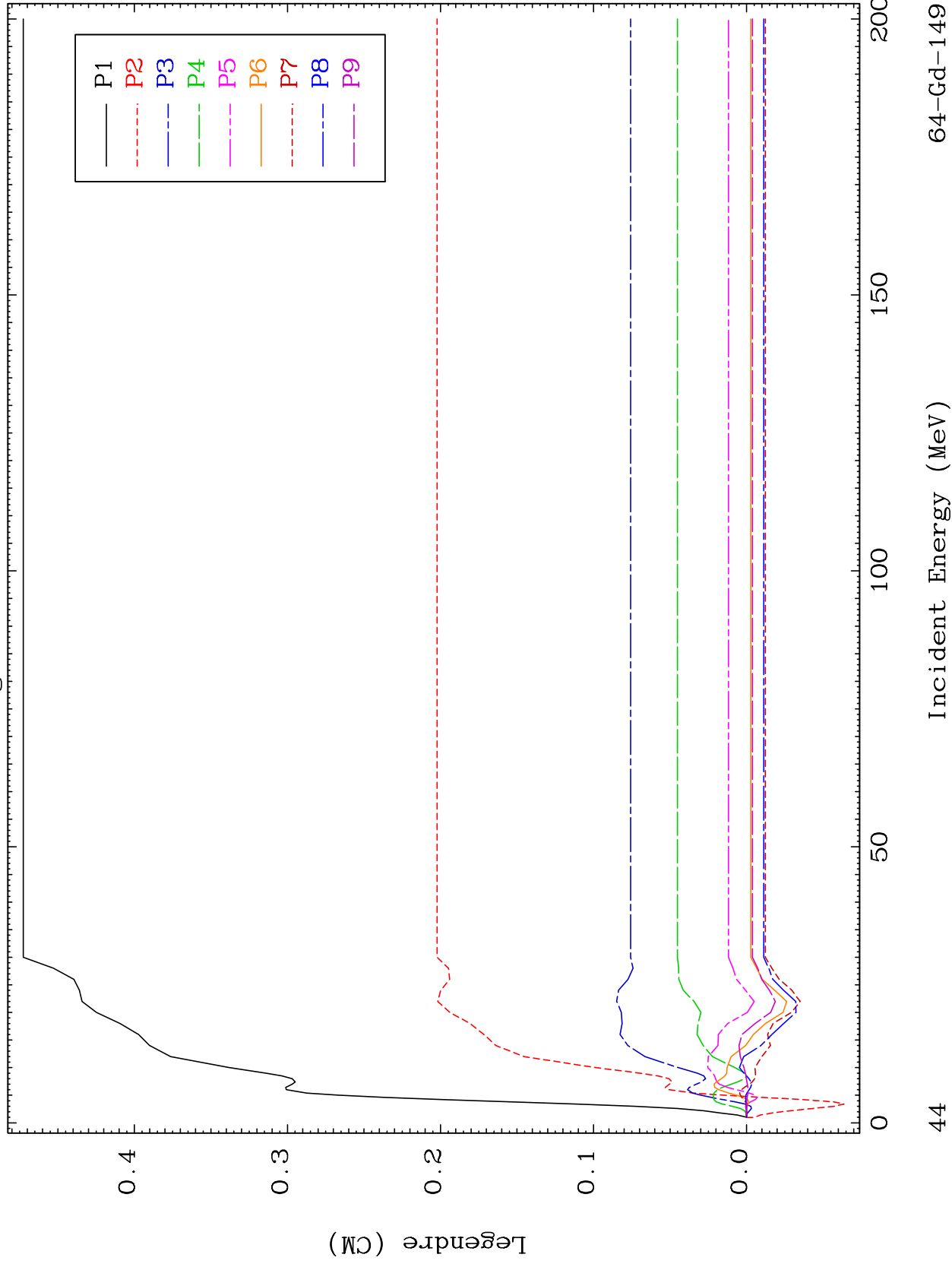
Incident Energy (MeV)

64-Gd-149

MAT 6416

955.8 keV (n,n') Level  
Legendre Coefficients

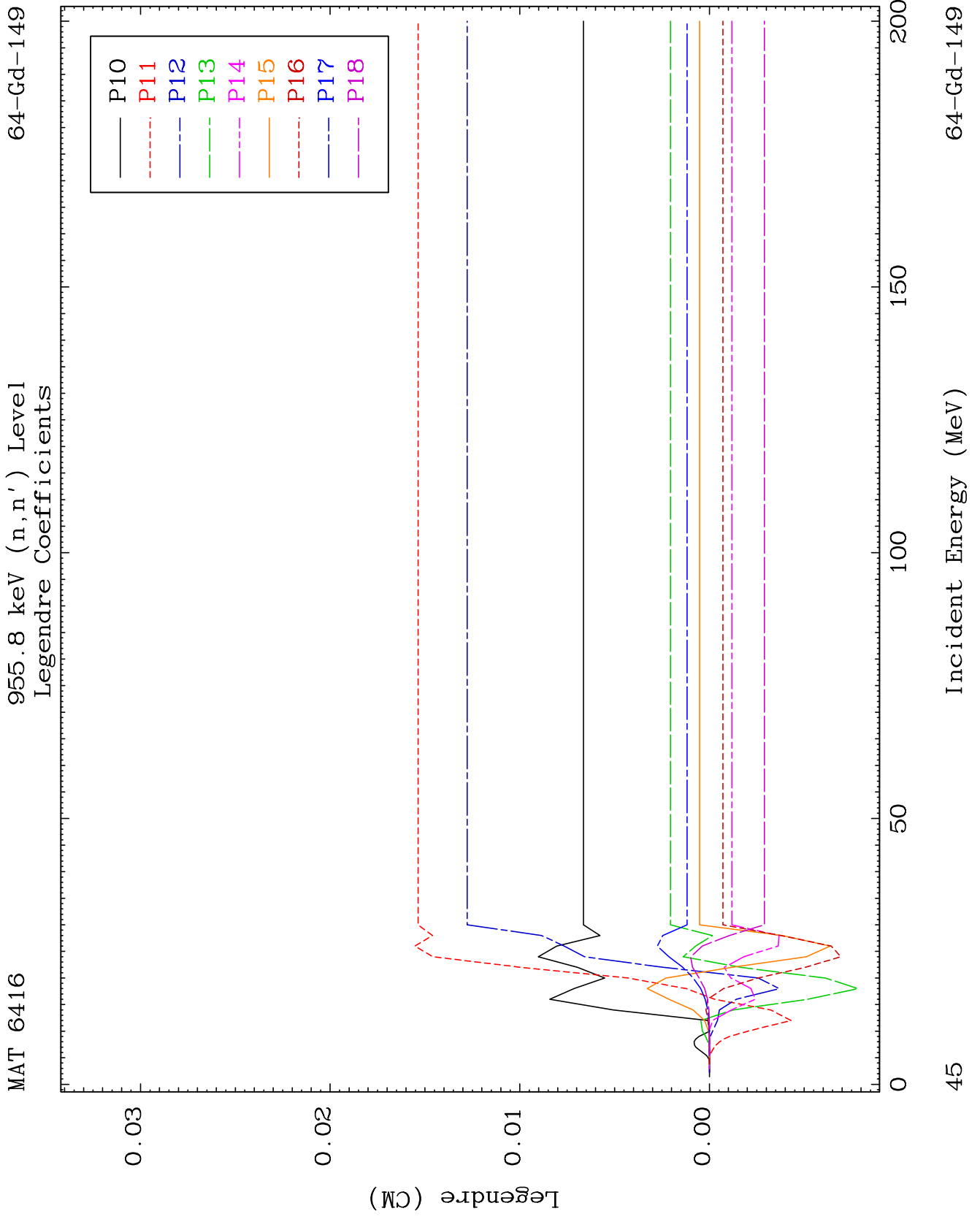
64-Gd-149



64-Gd-149

Incident Energy (MeV)

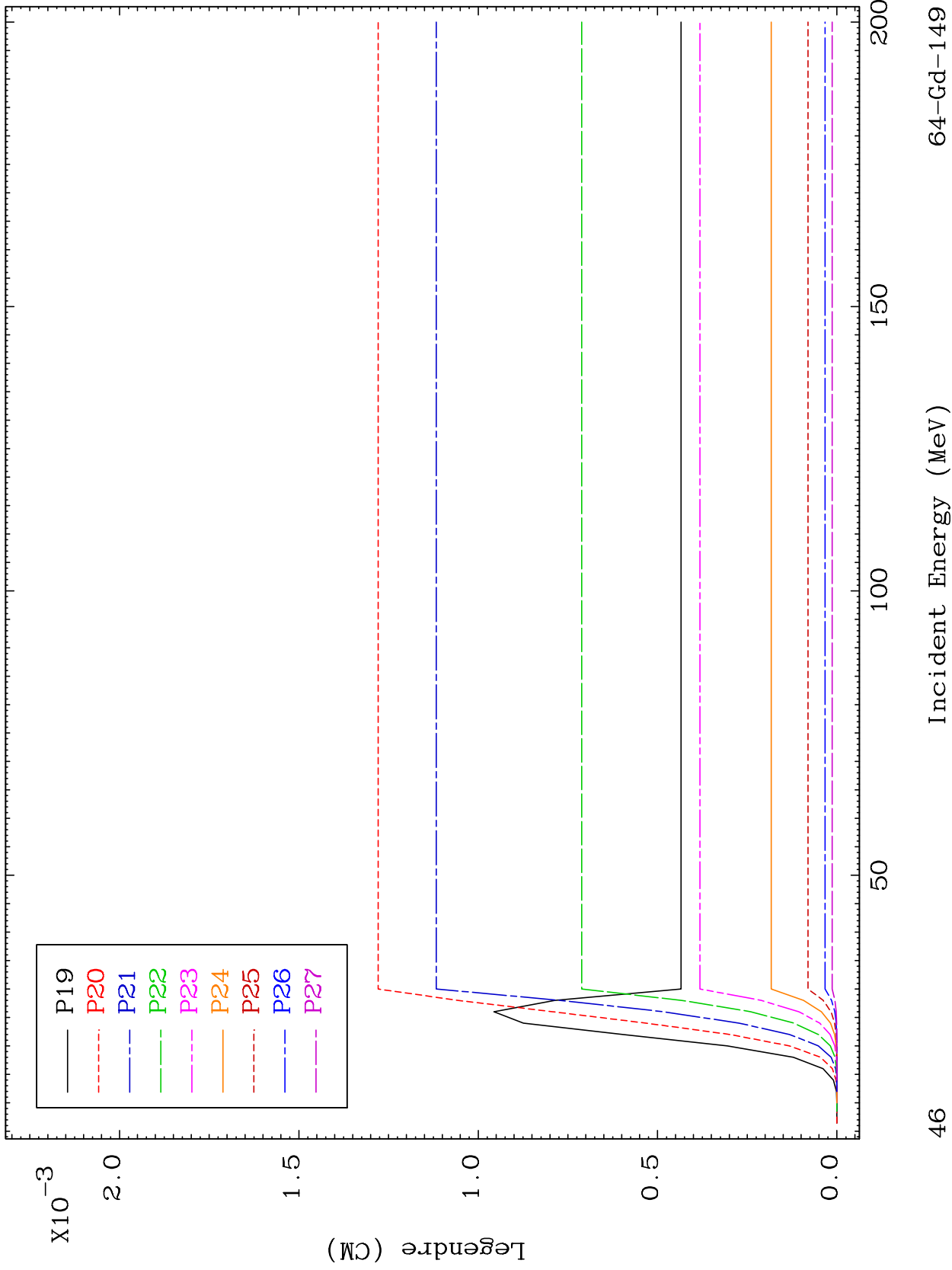
44



MAT 6416

955.8 keV (n, n') Level  
Legendre Coefficients

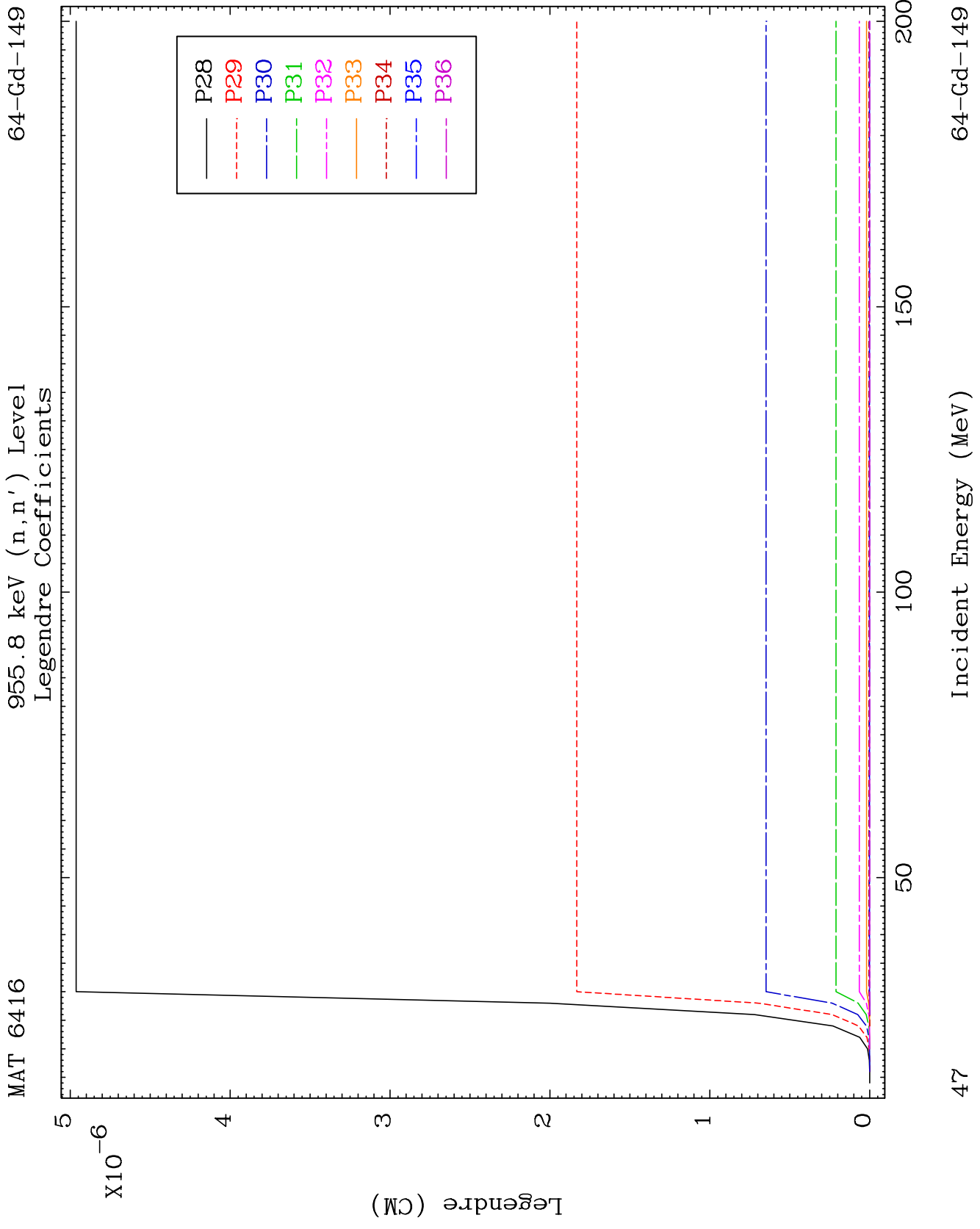
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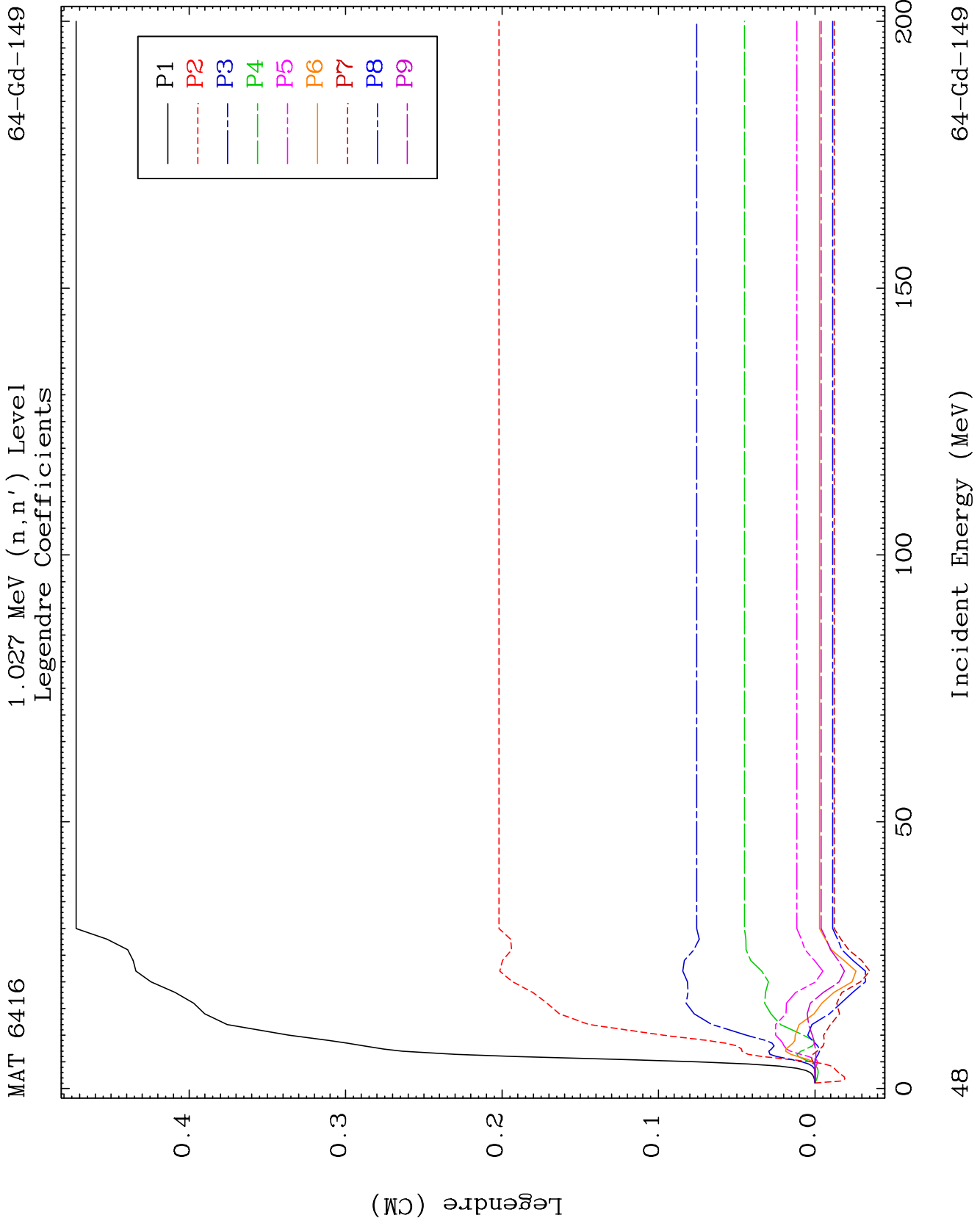
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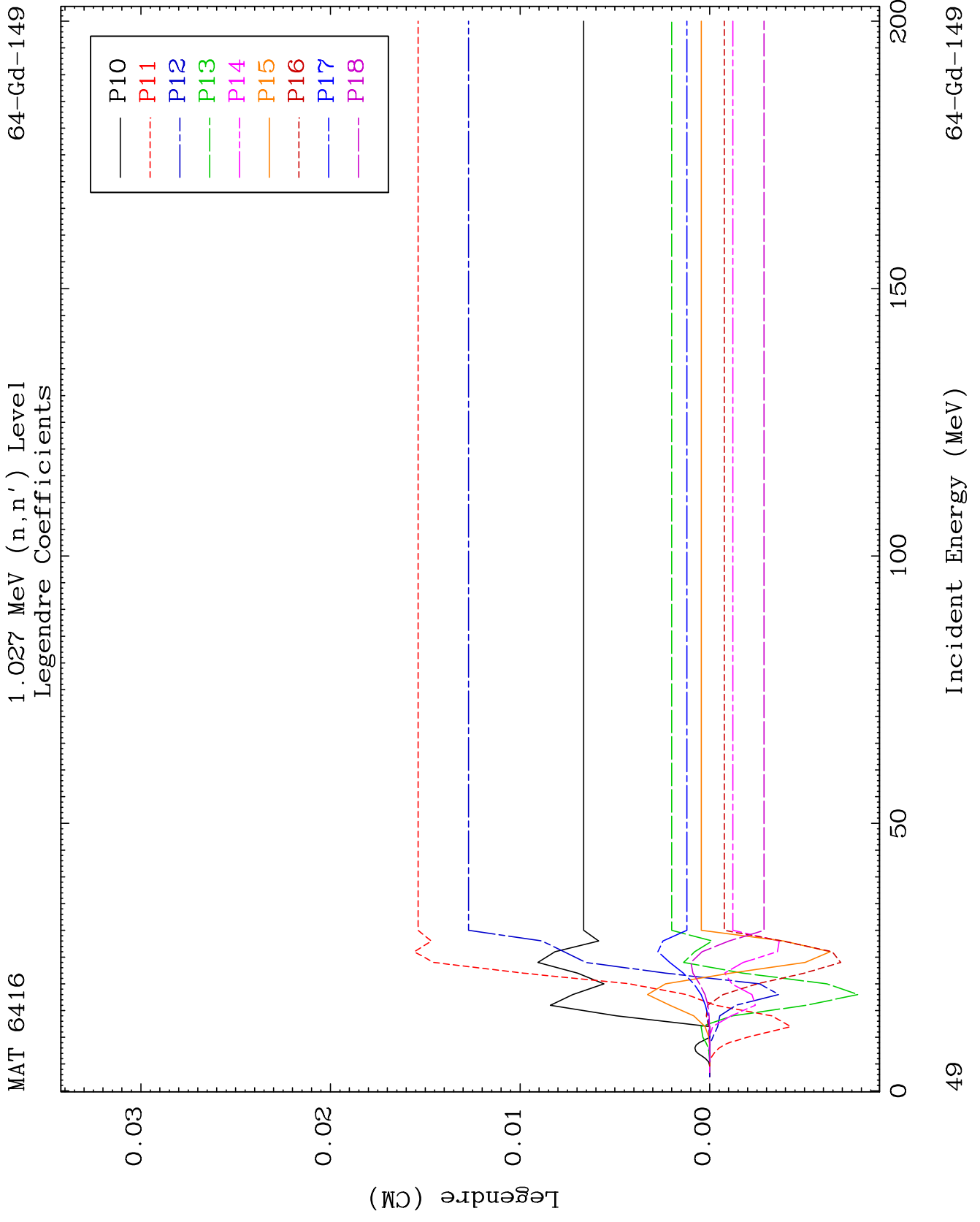
Incident Energy (MeV)

64-Gd-149





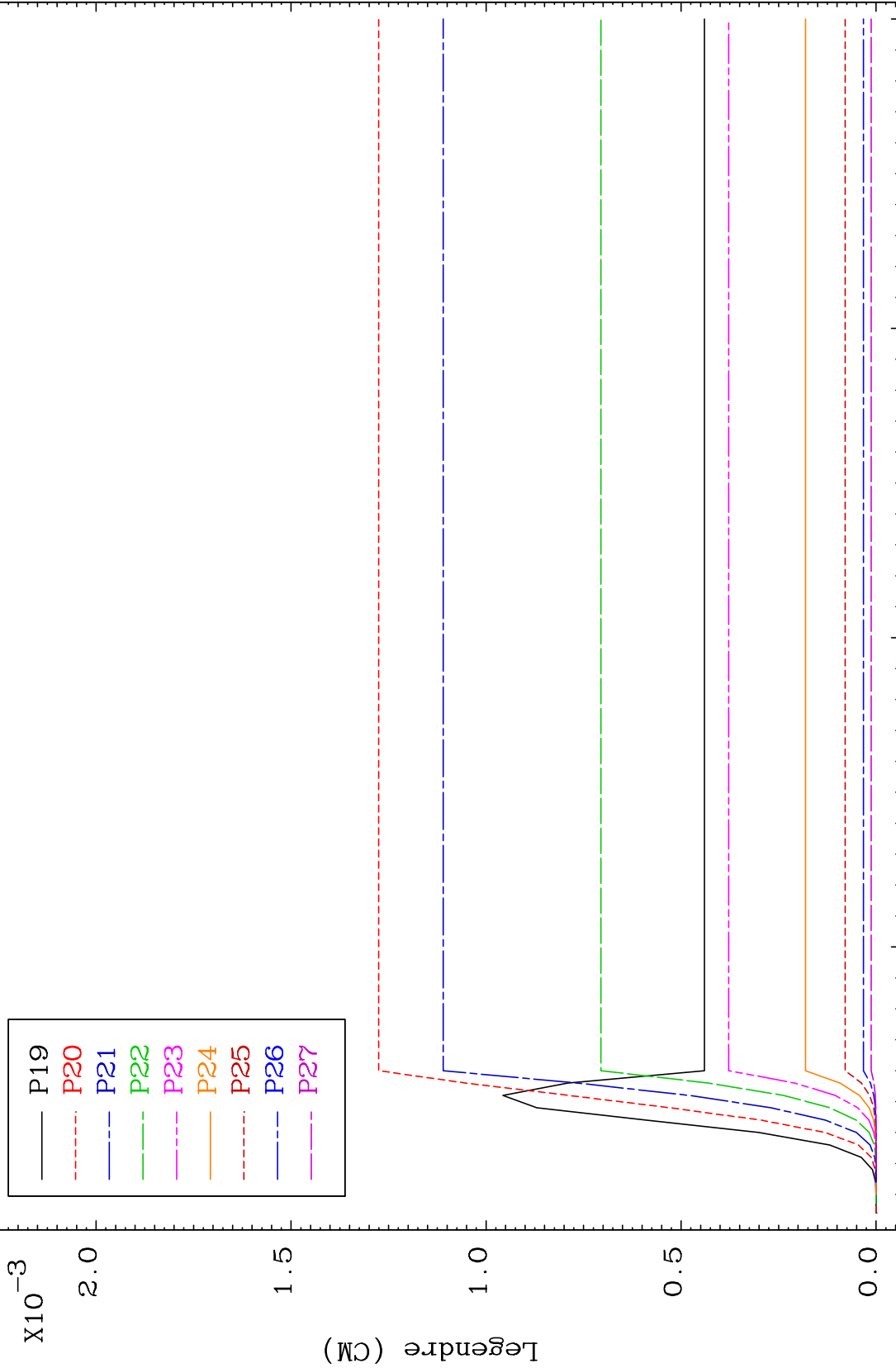
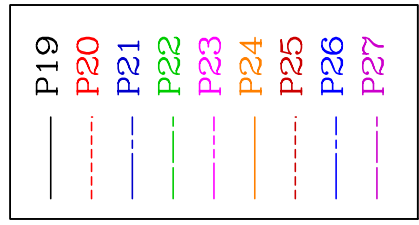




MAT 6416

1.027 MeV (n,n') Level  
Legendre Coefficients

64-Gd-149



50

50

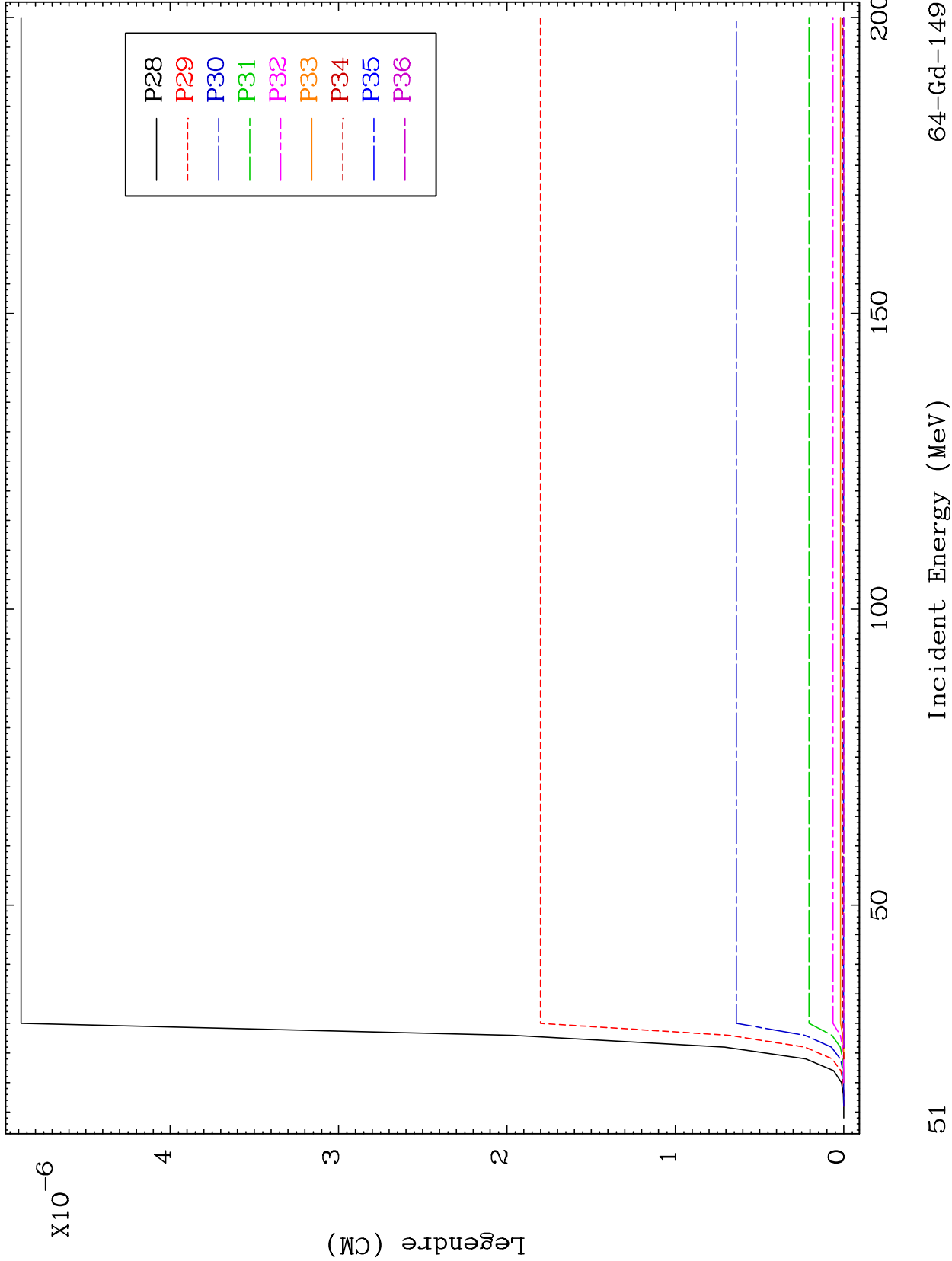
100

150

200

Incident Energy (MeV)

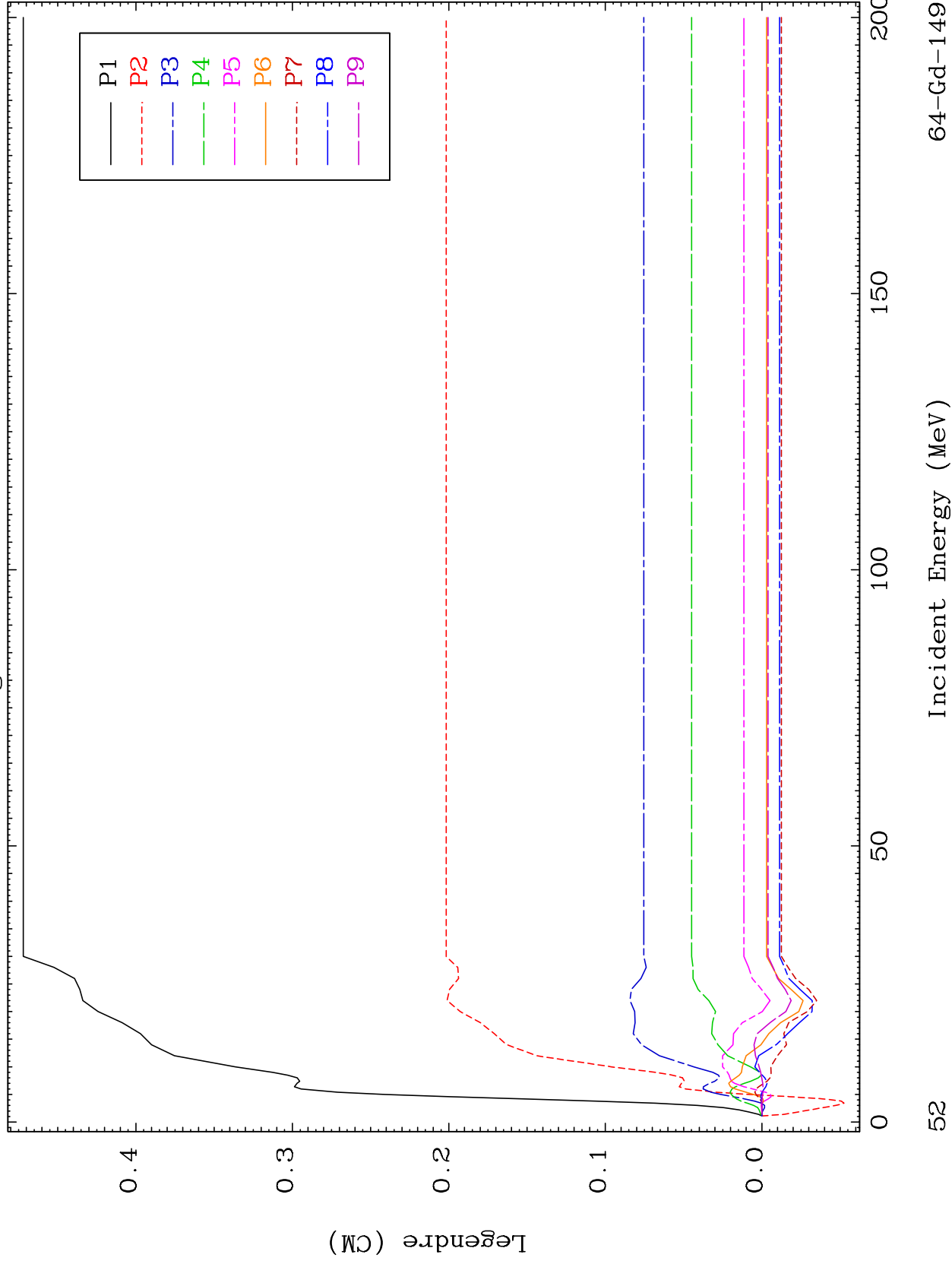
64-Gd-149



MAT 6416

1.085 MeV (n,n') Level  
Legendre Coefficients

64-Gd-149



64-Gd-149

Incident Energy (MeV)

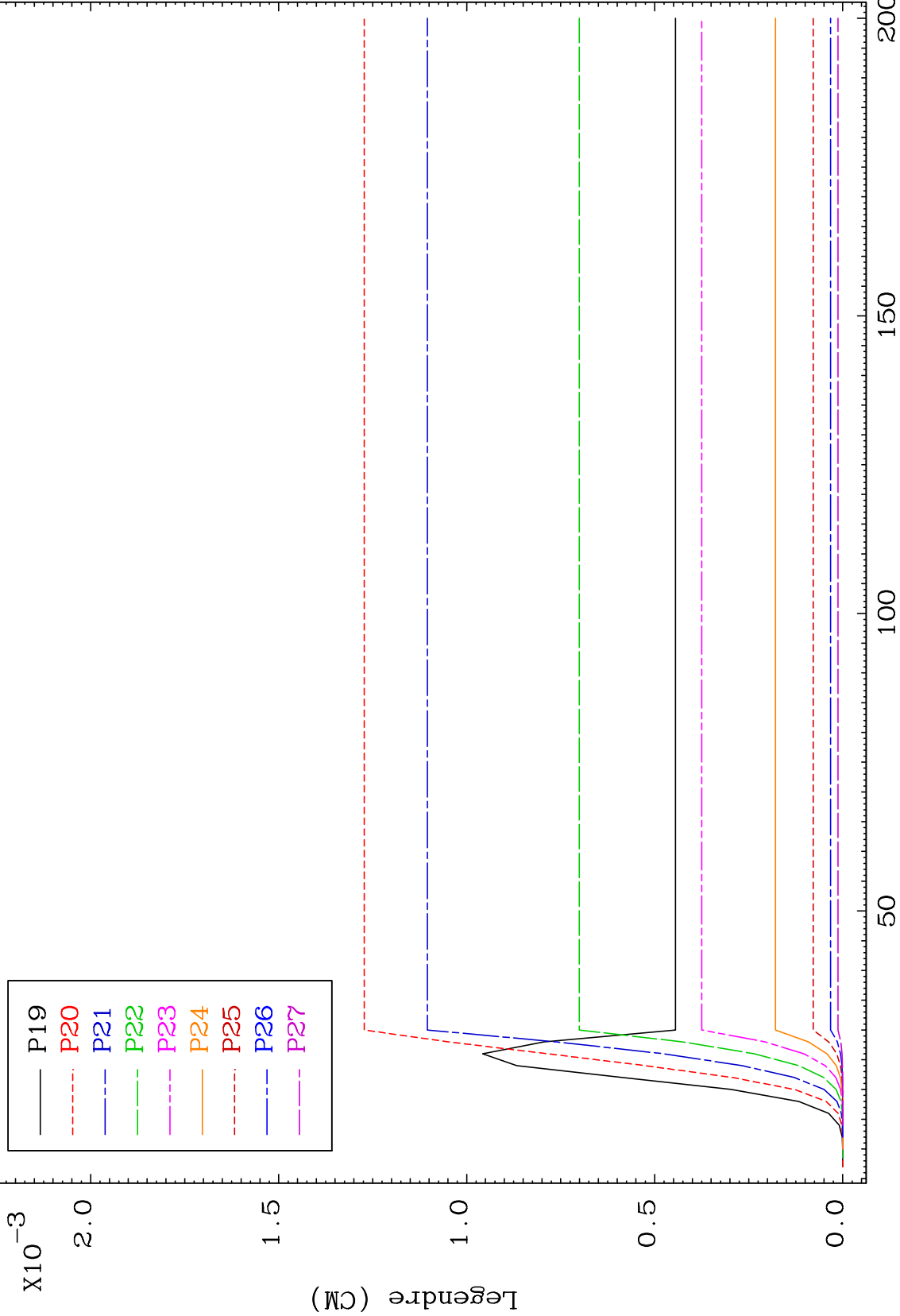
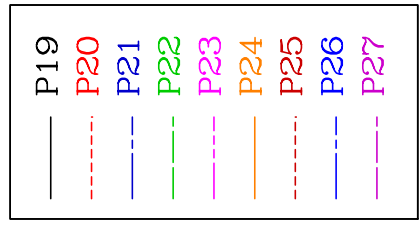
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MAT 6416

1.085 MeV (n, n') Level  
Legendre Coefficients

64-Gd-149



54

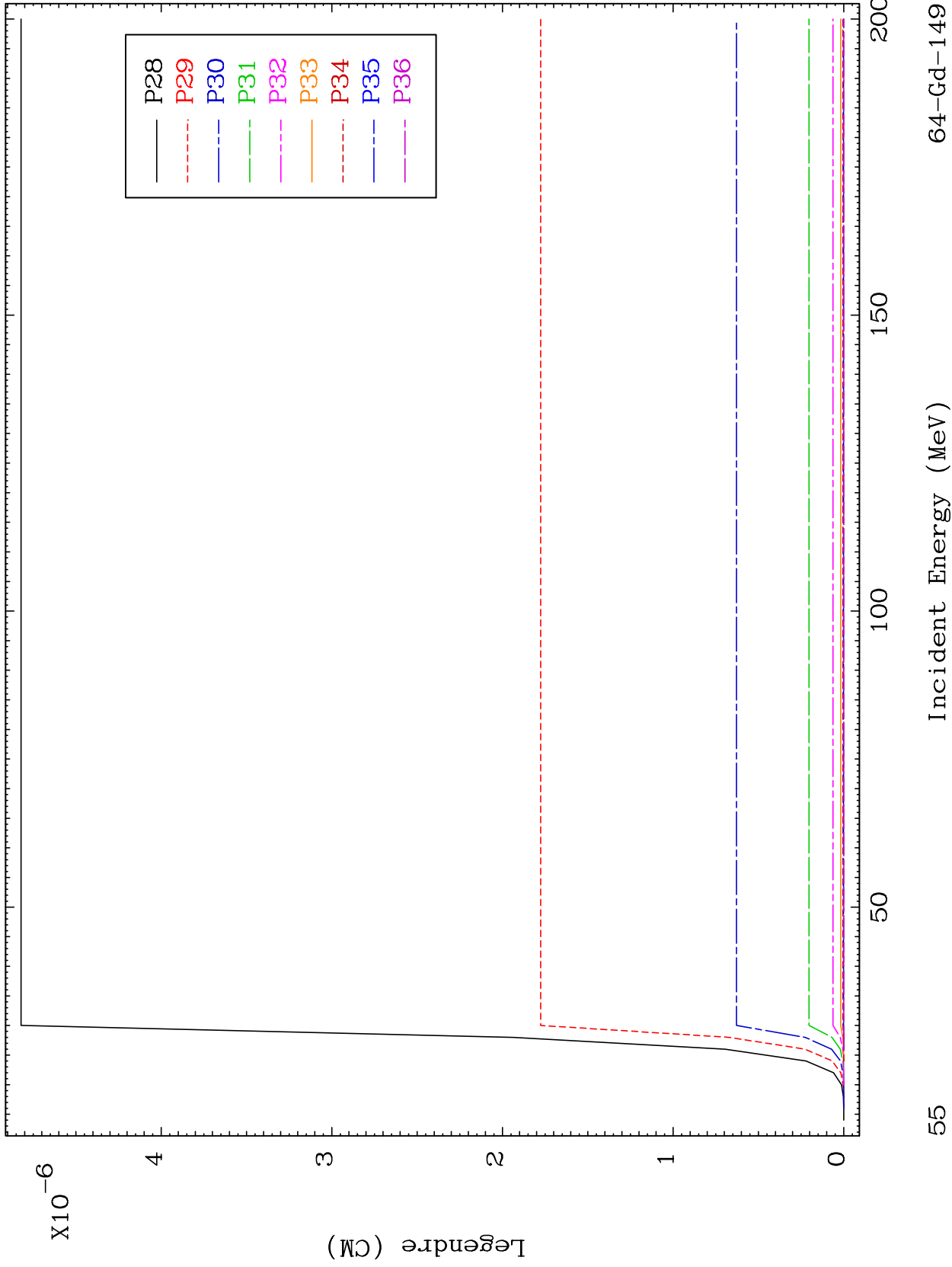
Incident Energy (MeV)

64-Gd-149

MAT 6416

1.085 MeV (n,n') Level  
Legendre Coefficients

64-Gd-149

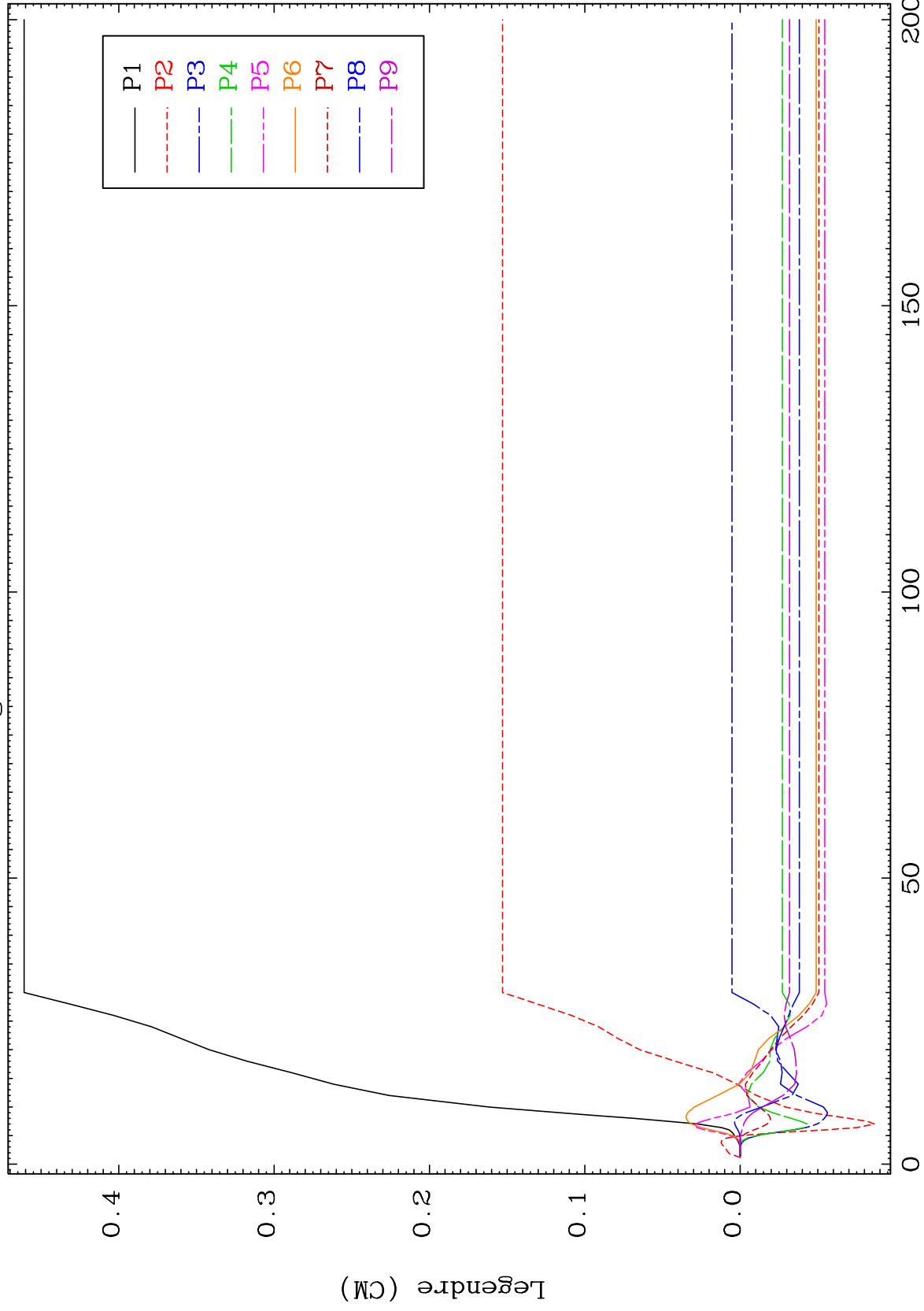




MAT 6416

1.125 MeV (n,n') Level  
Legendre Coefficients

64-Gd-149

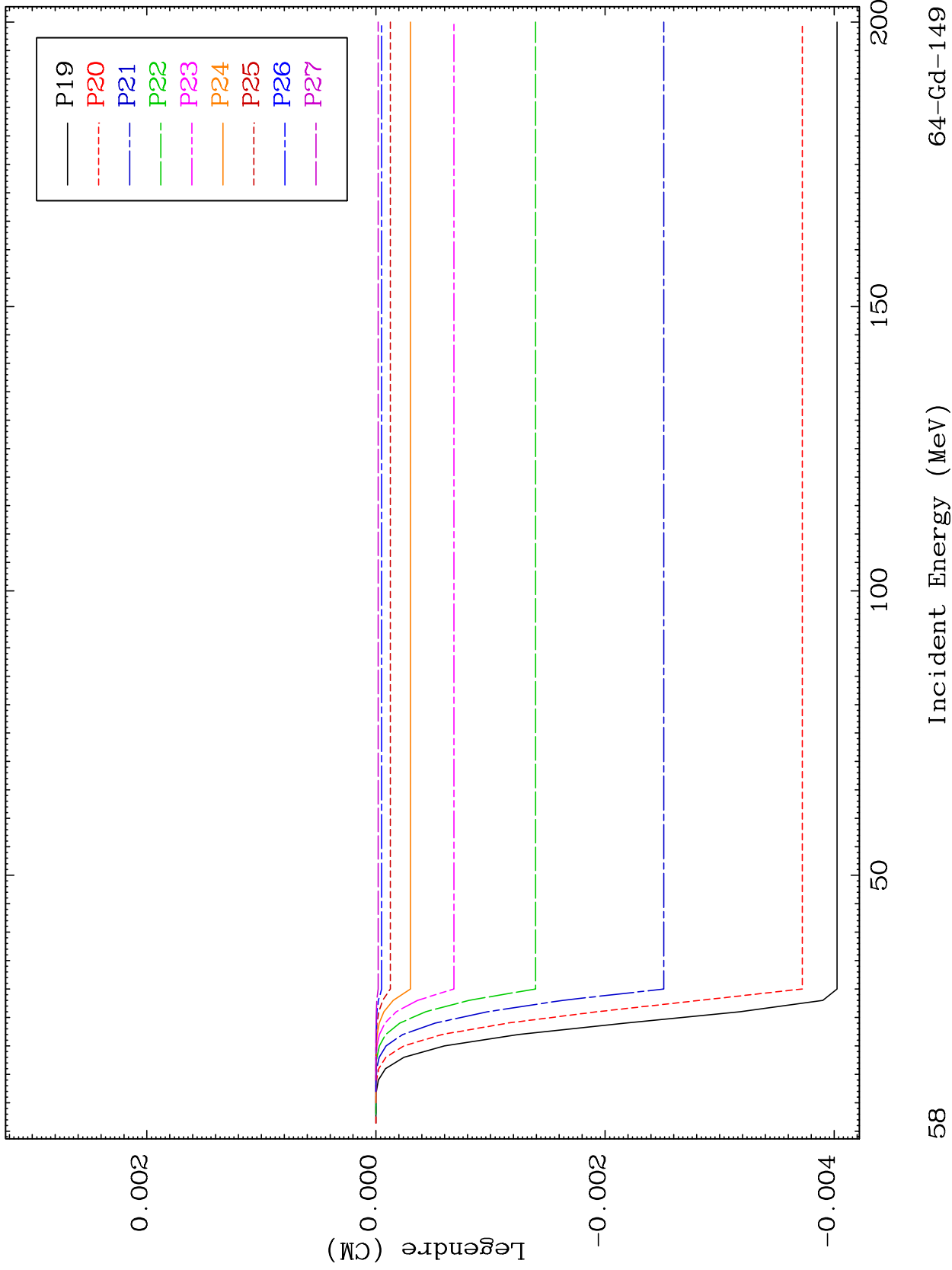


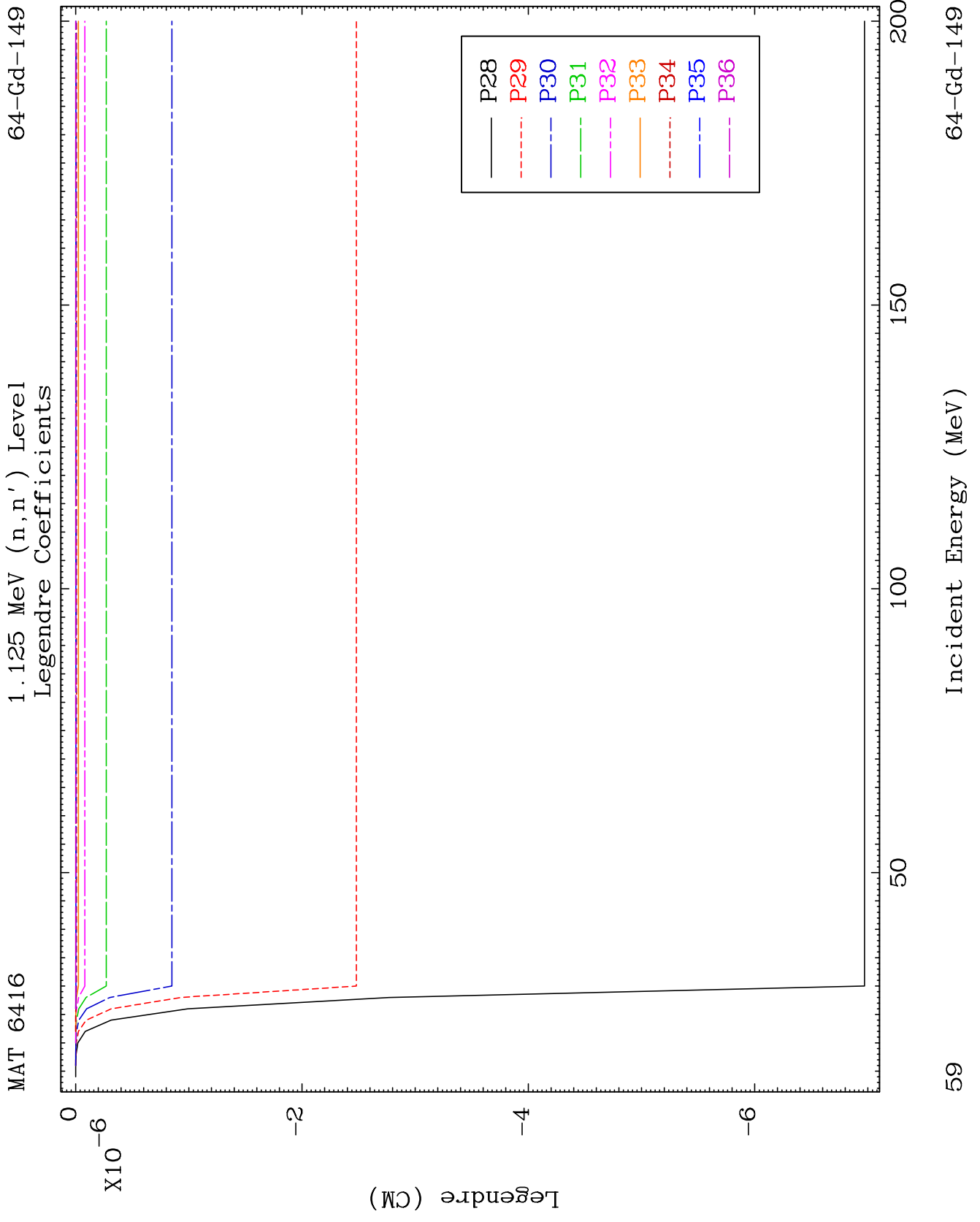
56

Incident Energy (MeV)

64-Gd-149



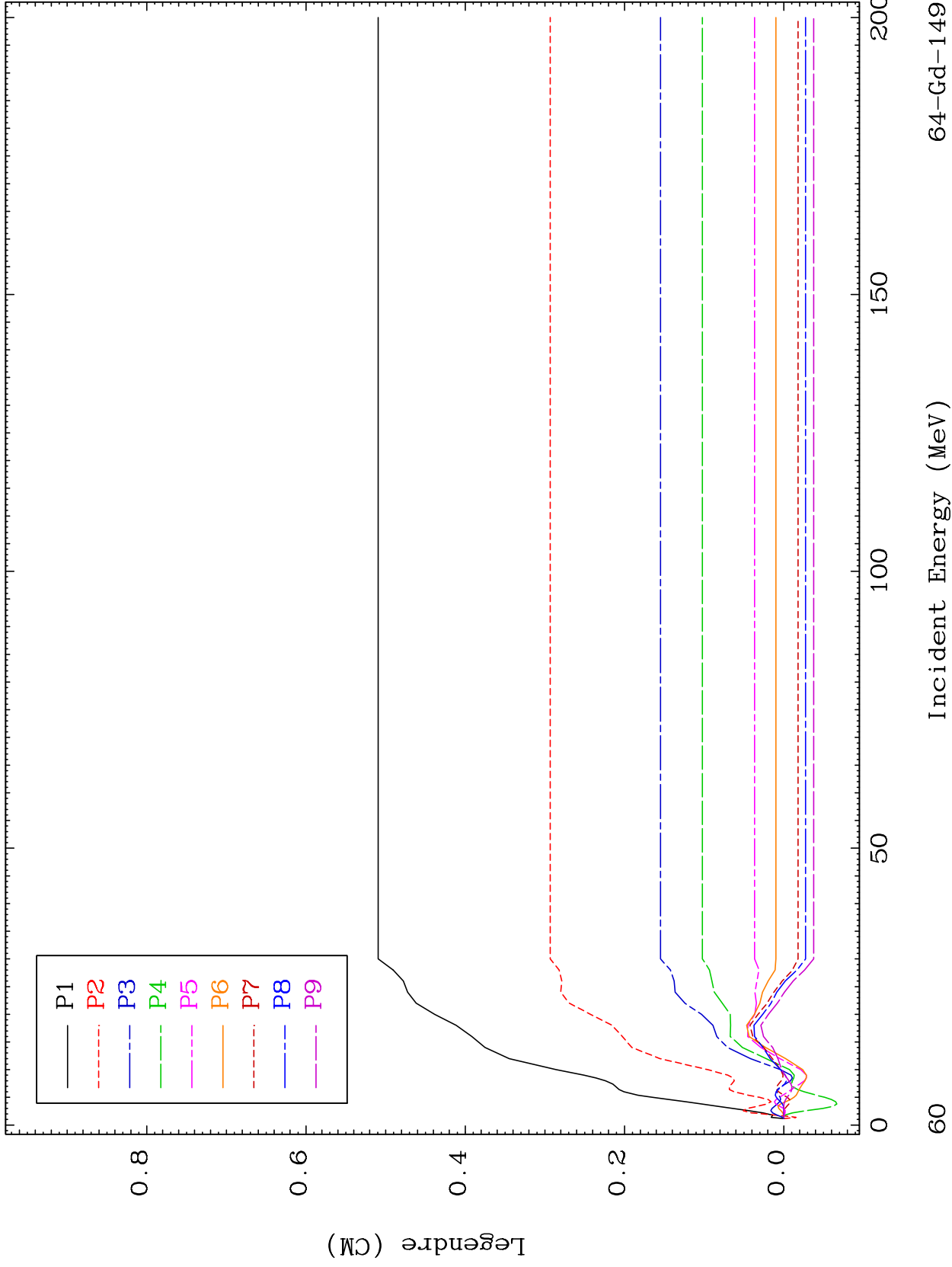




MAT 6416

1.144 MeV (n,n') Level  
Legendre Coefficients

64-Gd-149



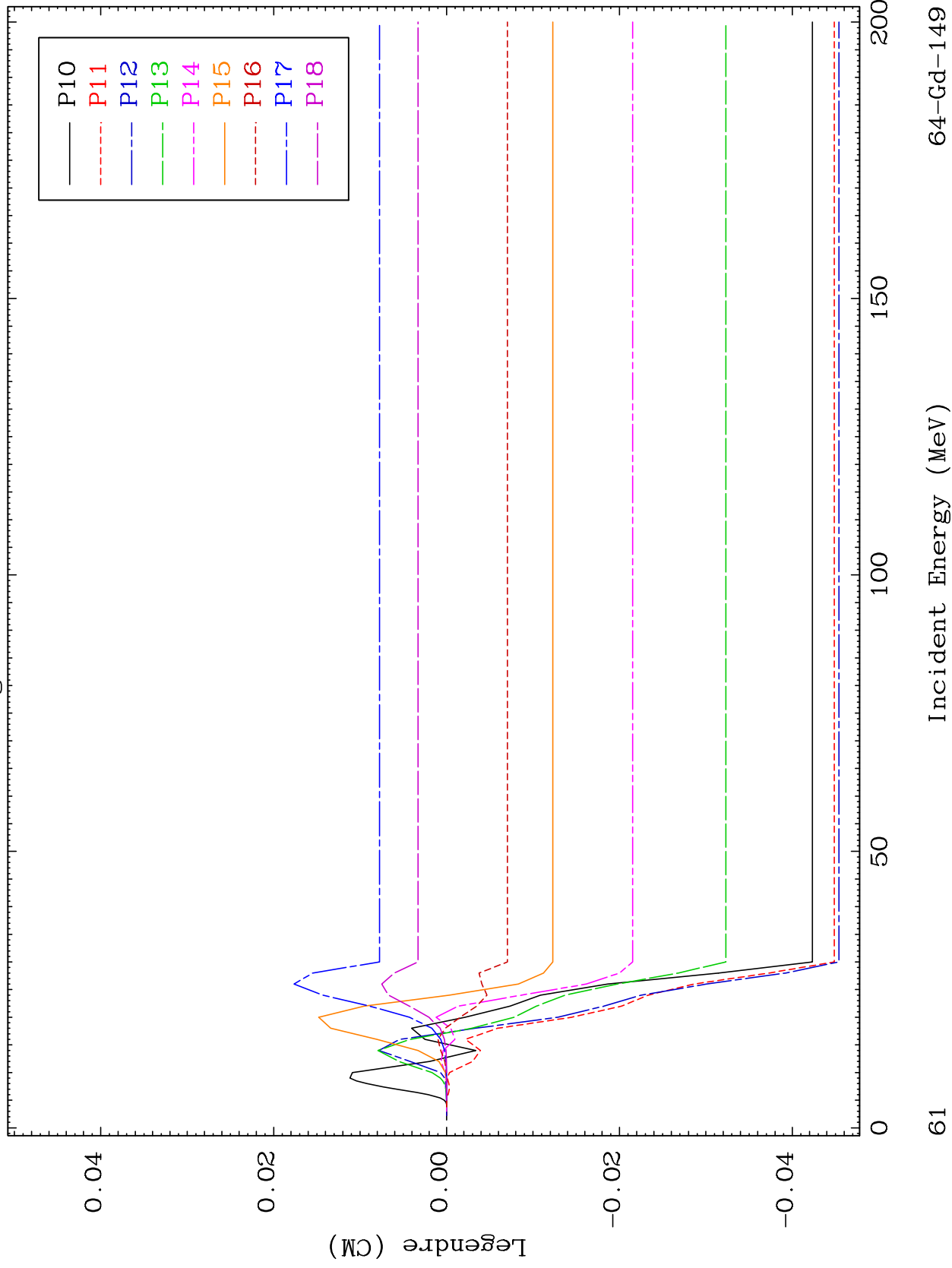
64-Gd-149

Incident Energy (MeV)

MAT 6416

1.144 MeV (n,n') Level  
Legendre Coefficients

64-Gd-149



61

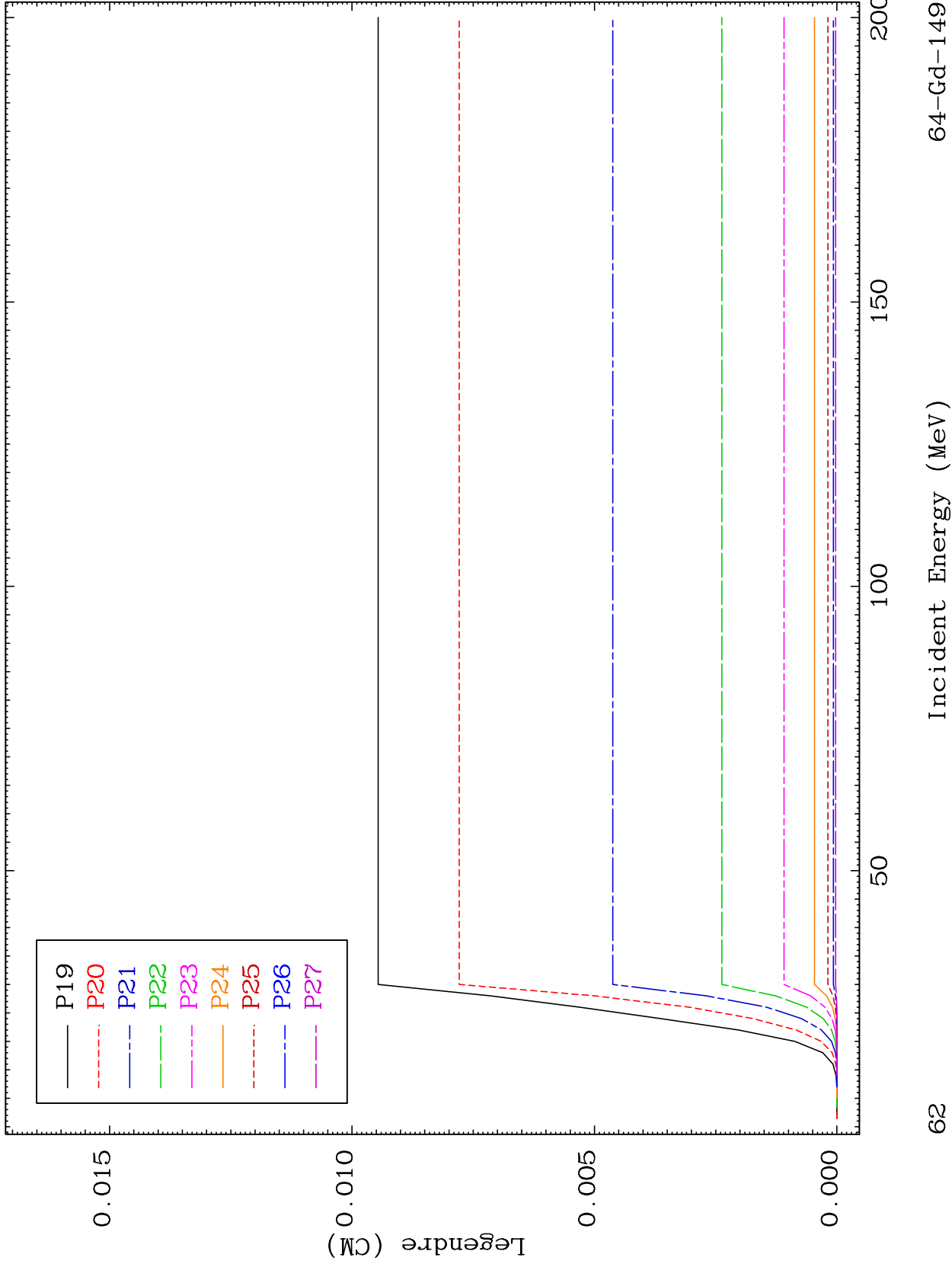
Incident Energy (MeV)

64-Gd-149

MAT 6416

1.144 MeV (n,n') Level  
Legendre Coefficients

64-Gd-149



64-Gd-149

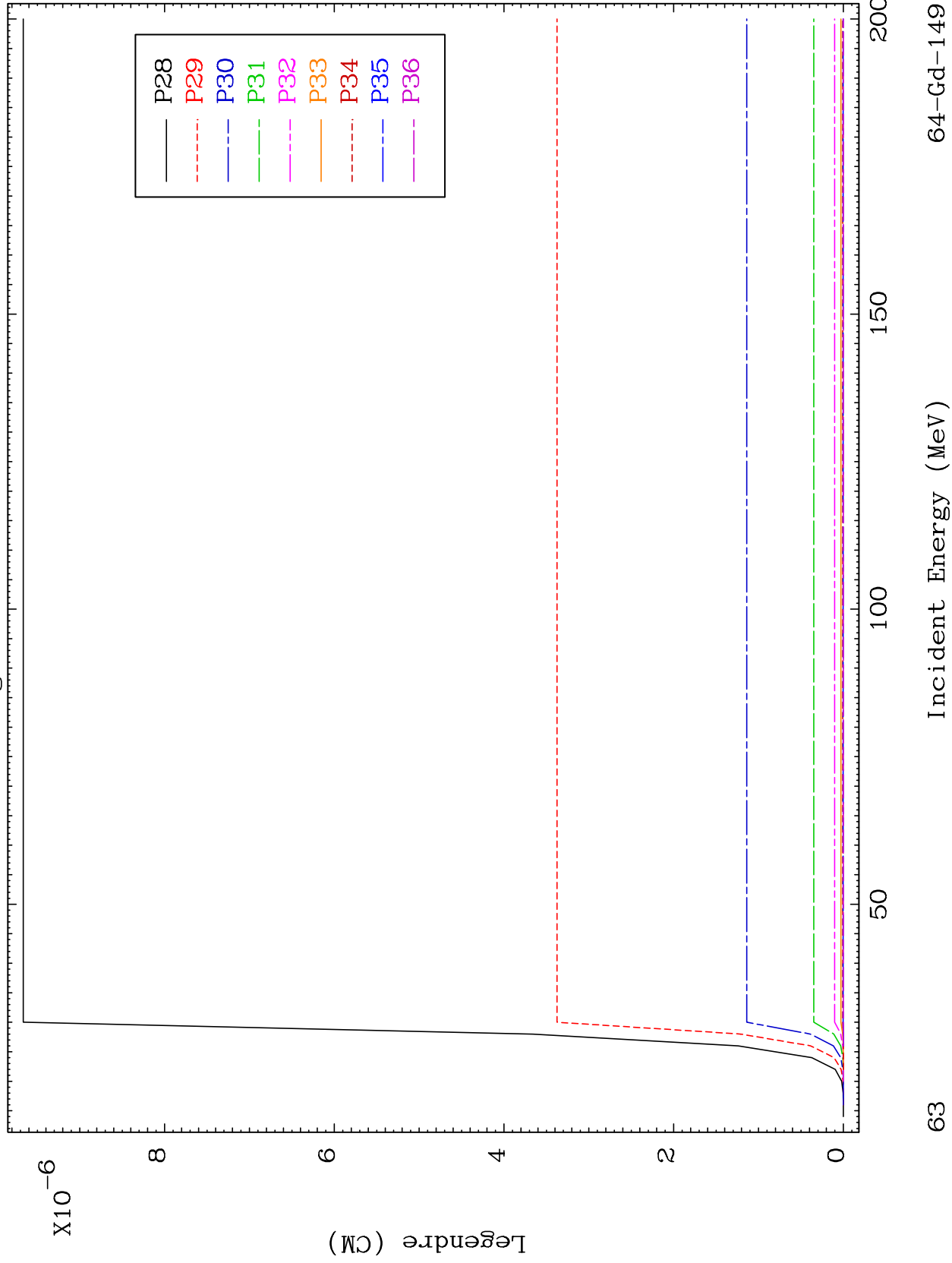
Incident Energy (MeV)

62

MAT 6416

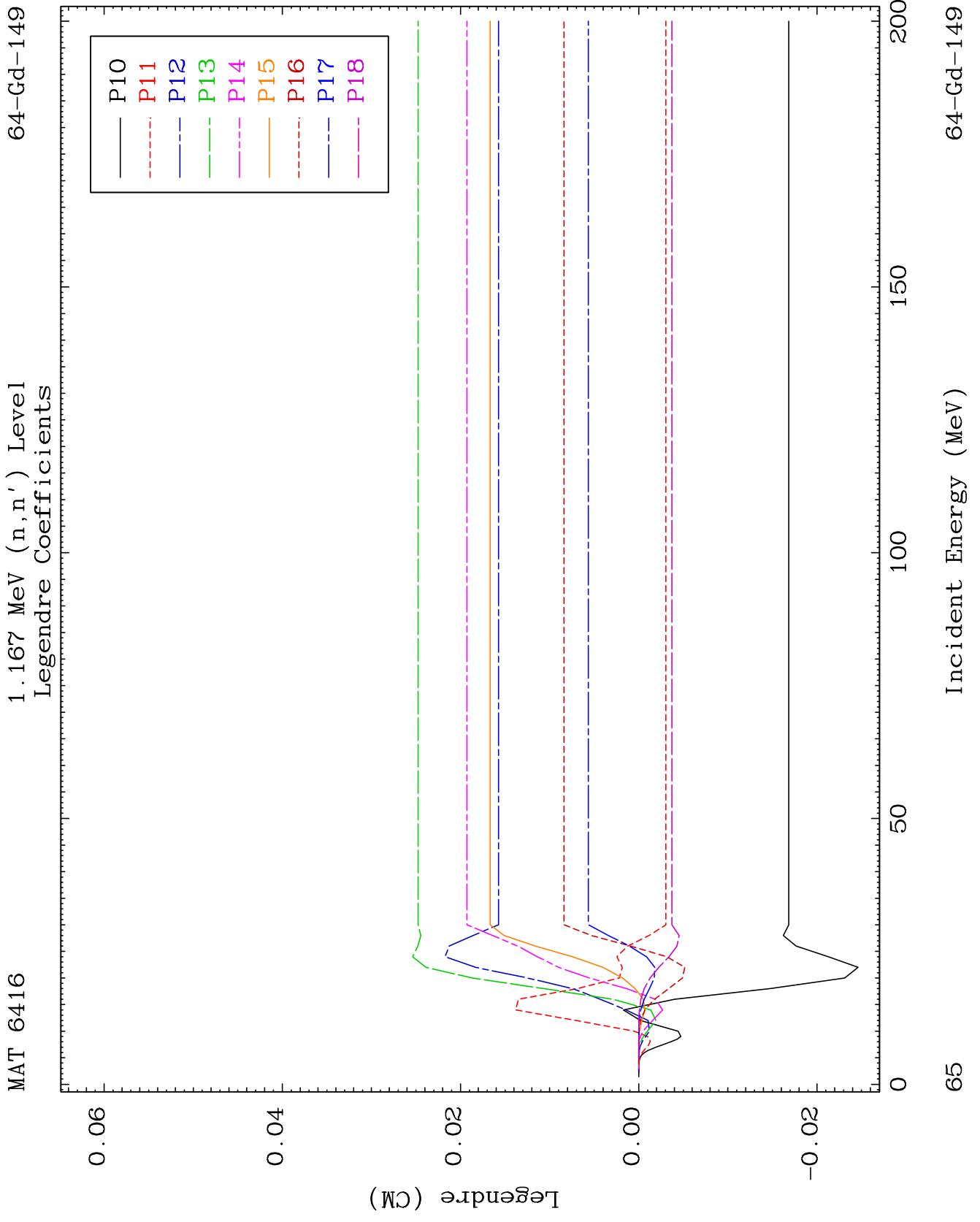
1.144 MeV (n,n') Level  
Legendre Coefficients

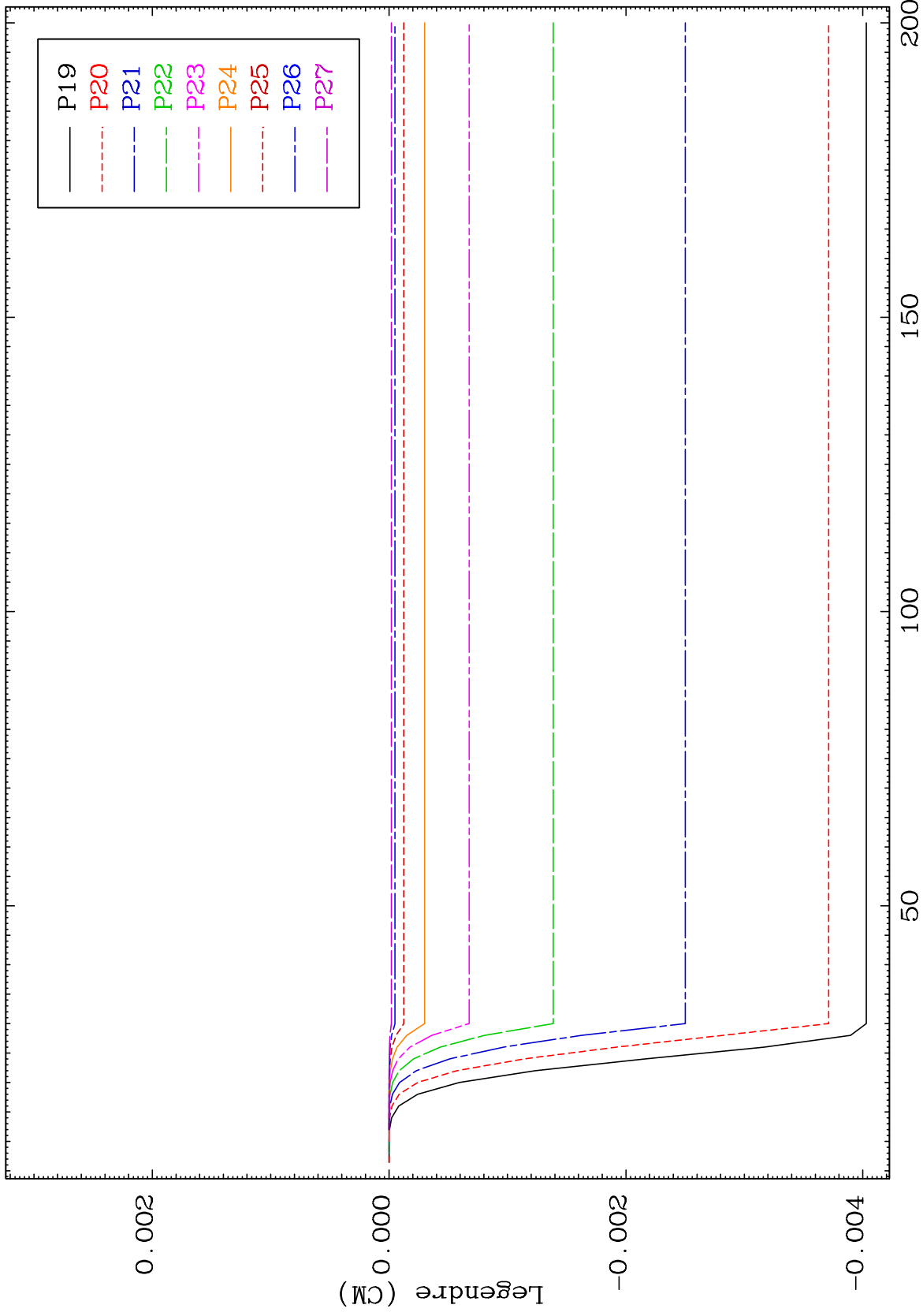
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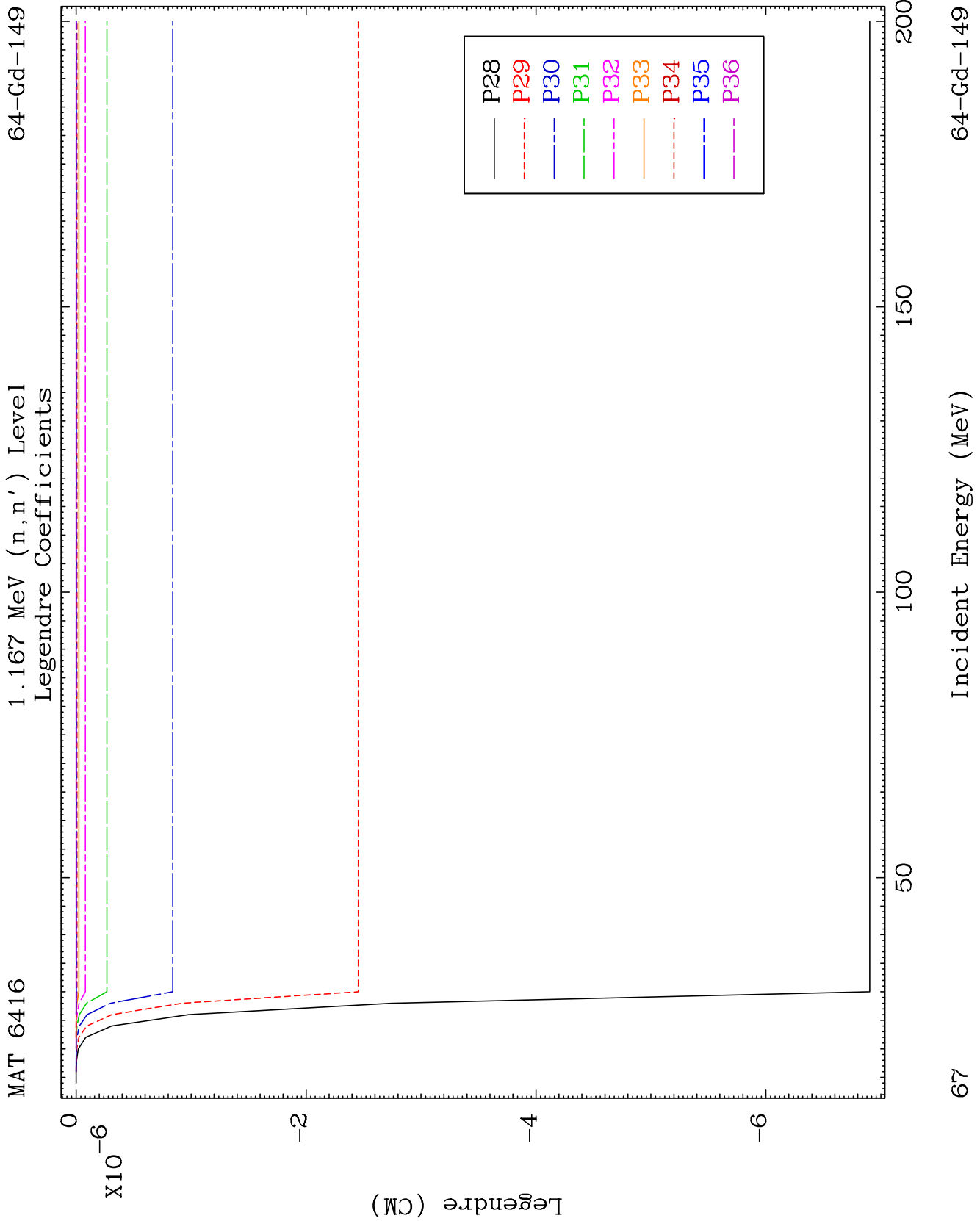




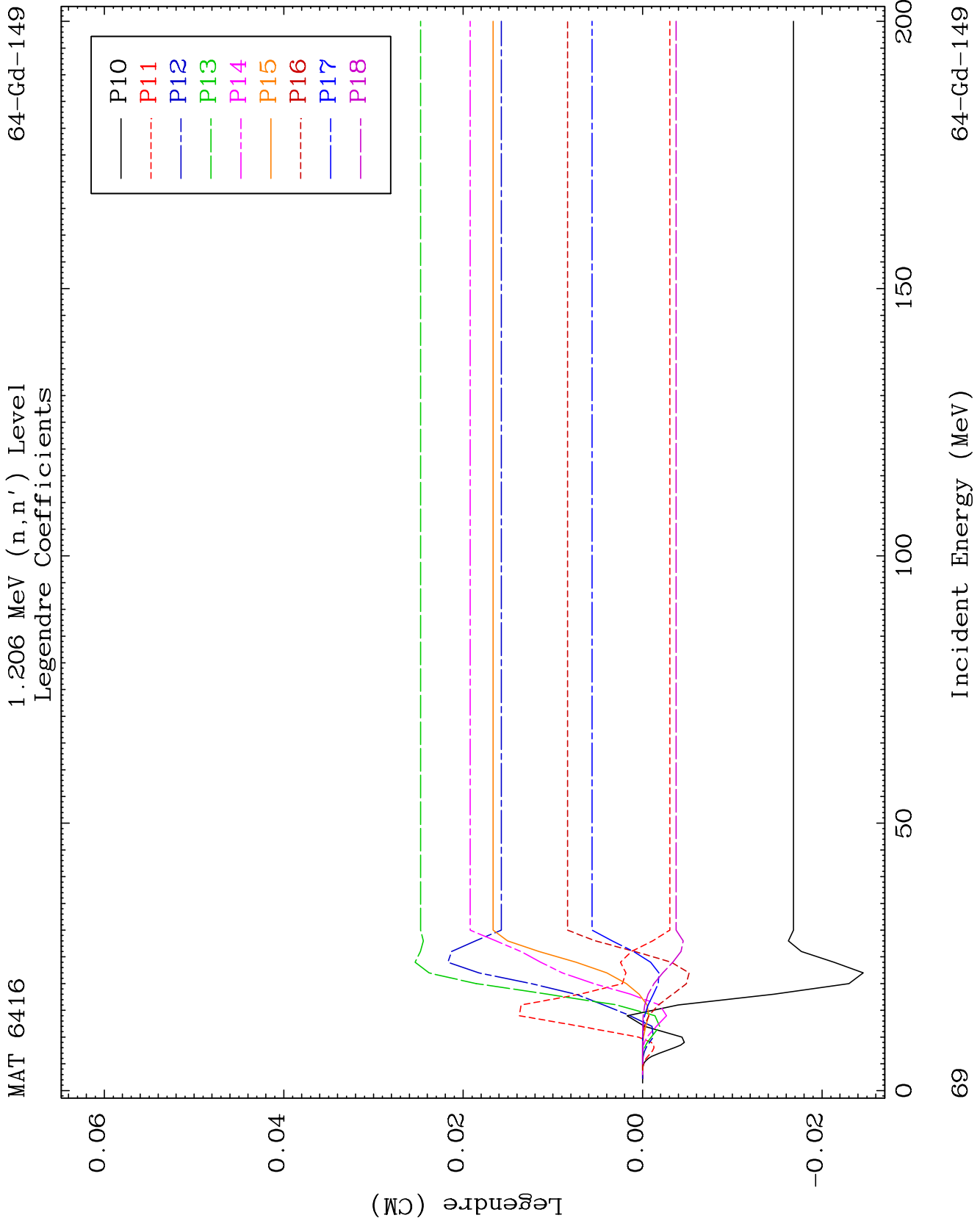


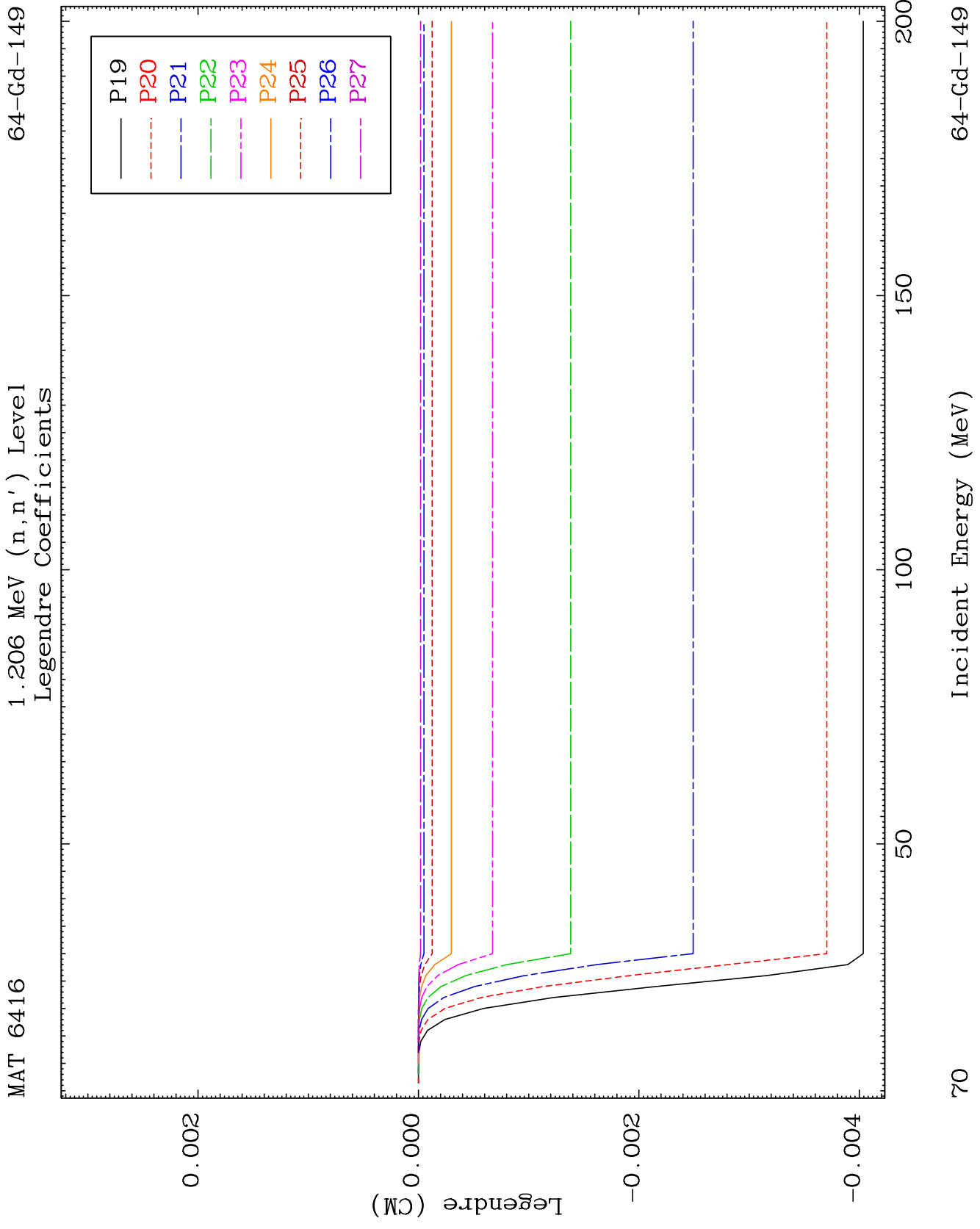


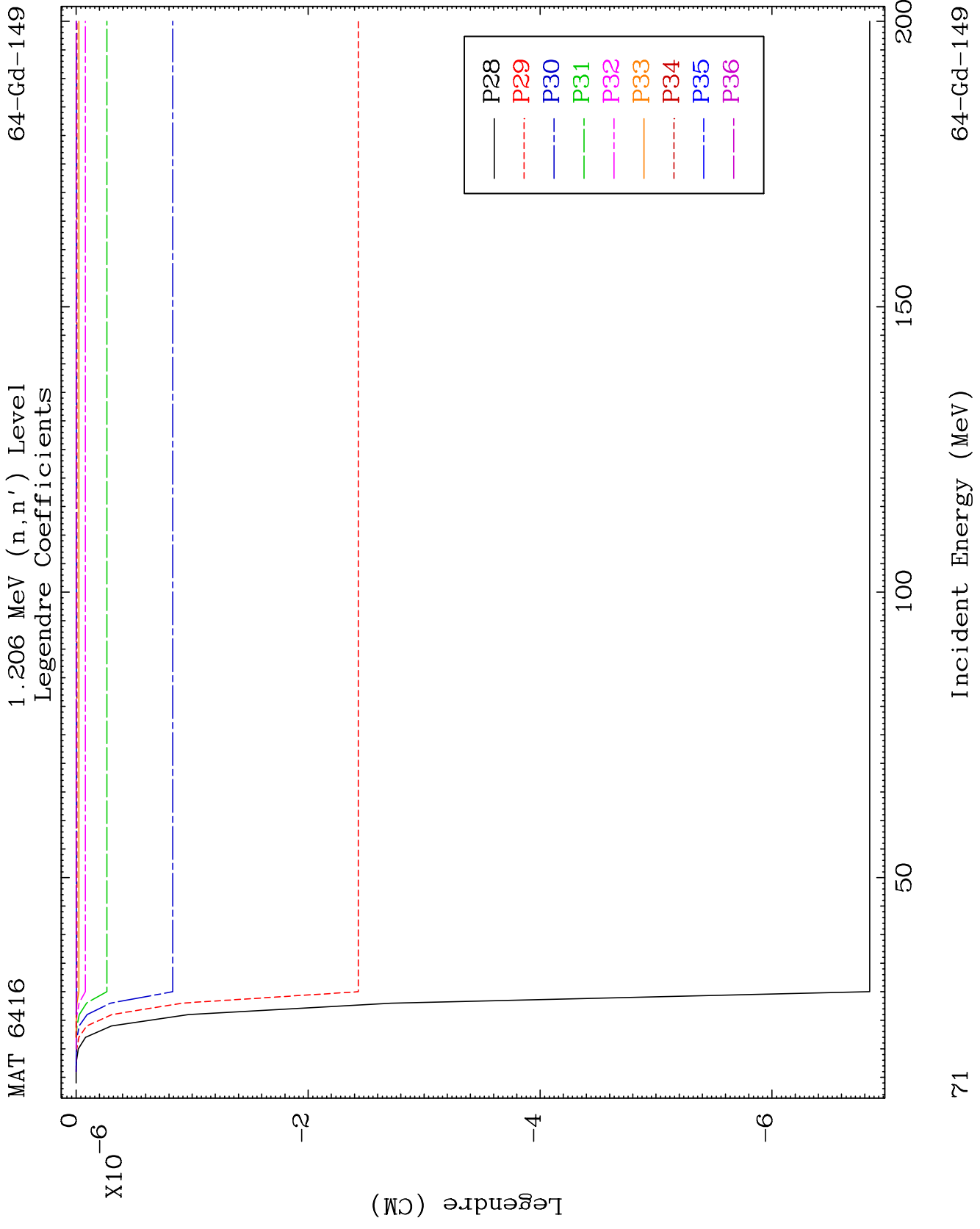












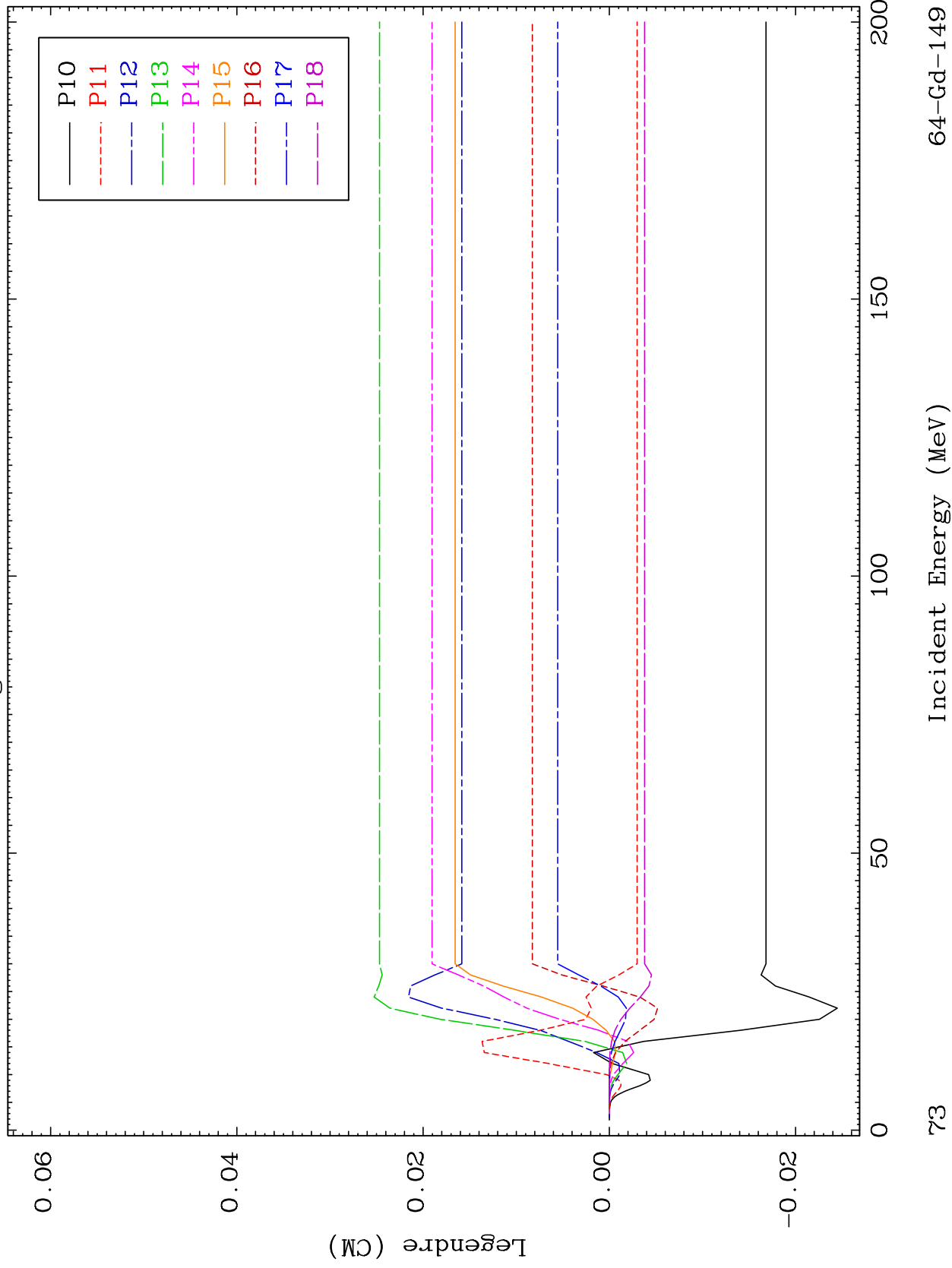




MAT 6416

1.349 MeV (n,n') Level  
Legendre Coefficients

64-Gd-149



73

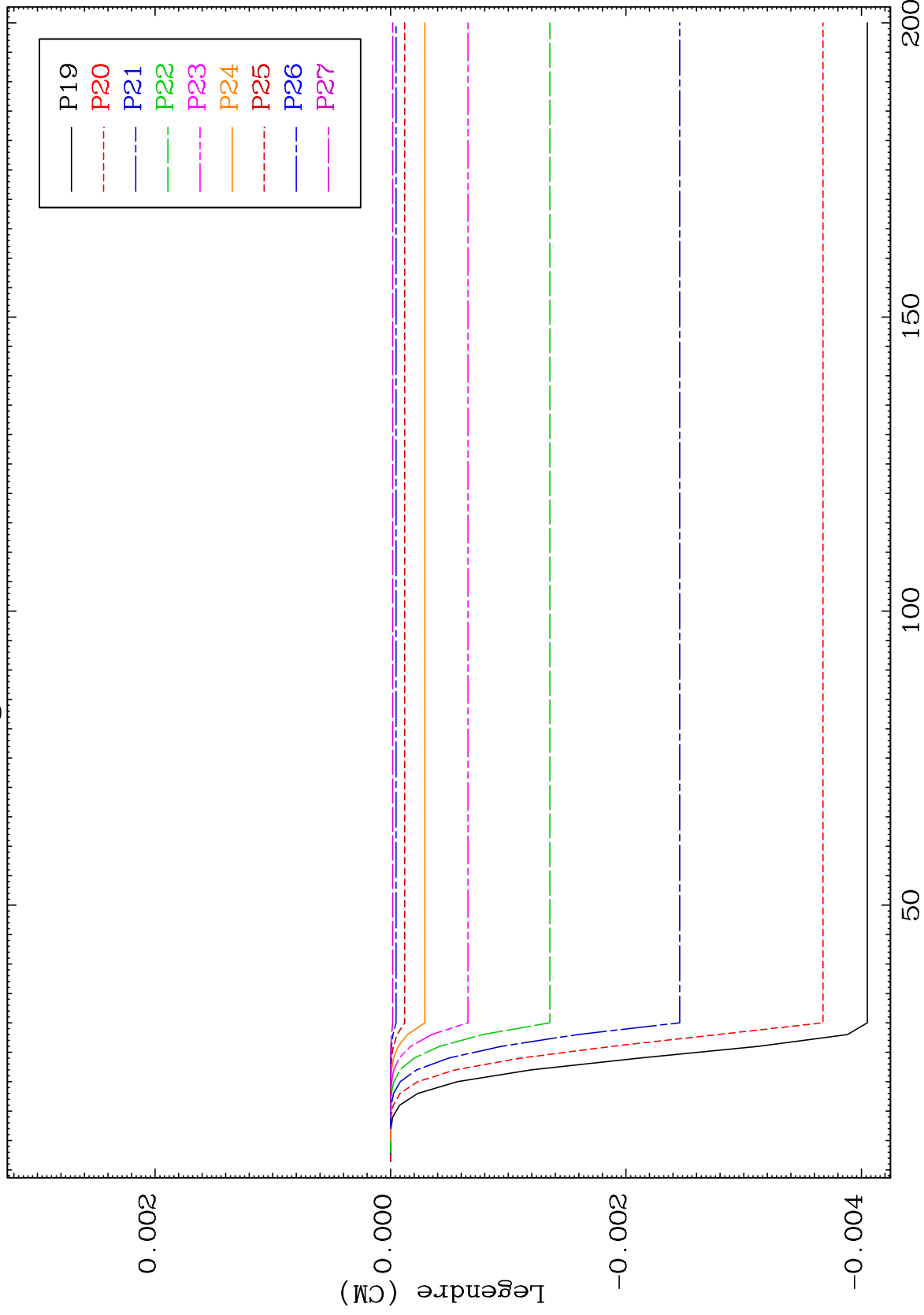
Incident Energy (MeV)

64-Gd-149

MAT 6416

1.349 MeV (n,n') Level  
Legendre Coefficients

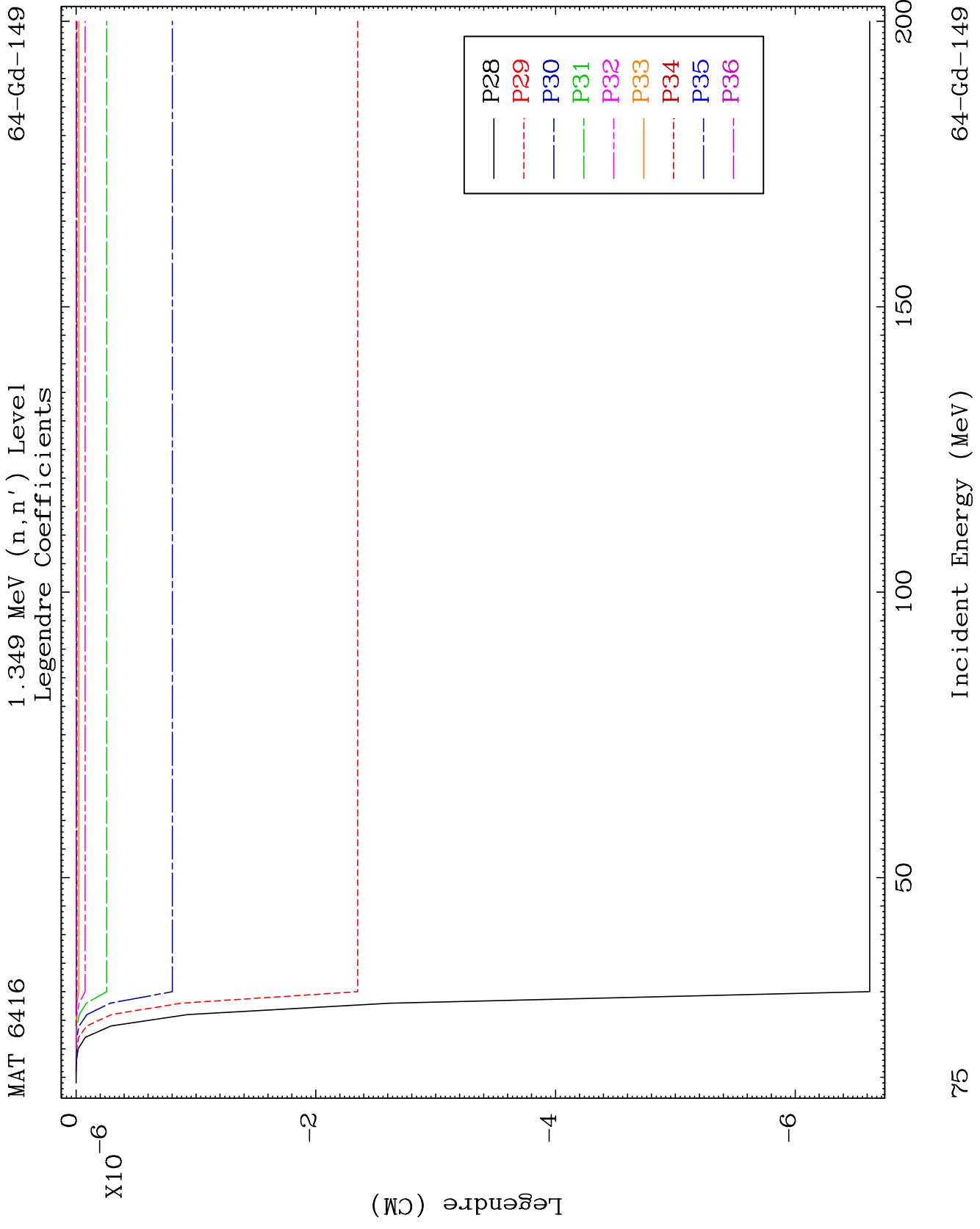
64-Gd-149



74

Incident Energy (MeV)

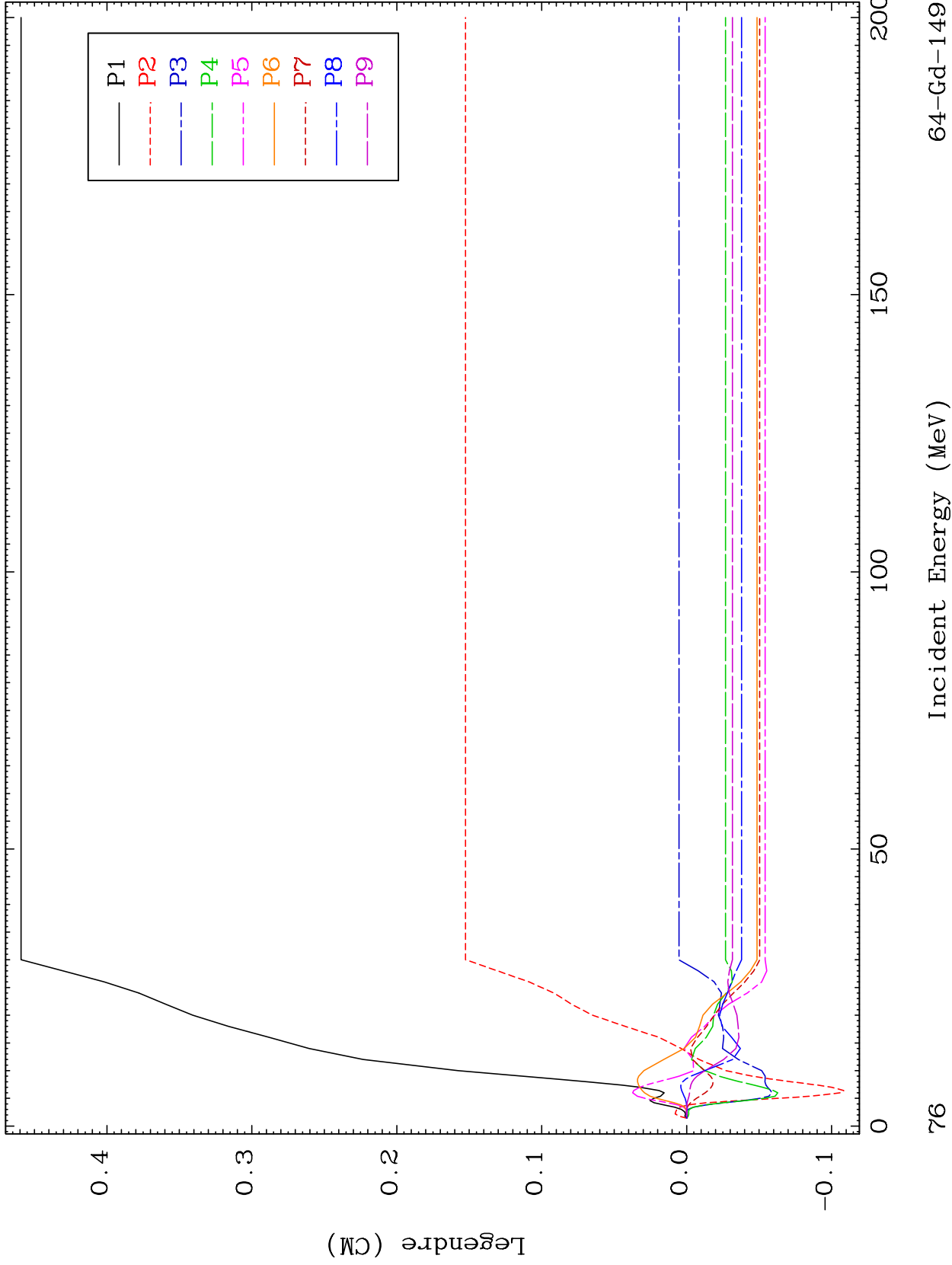
64-Gd-149



MAT 6416

1.403 MeV (n,n') Level  
Legendre Coefficients

64-Gd-149

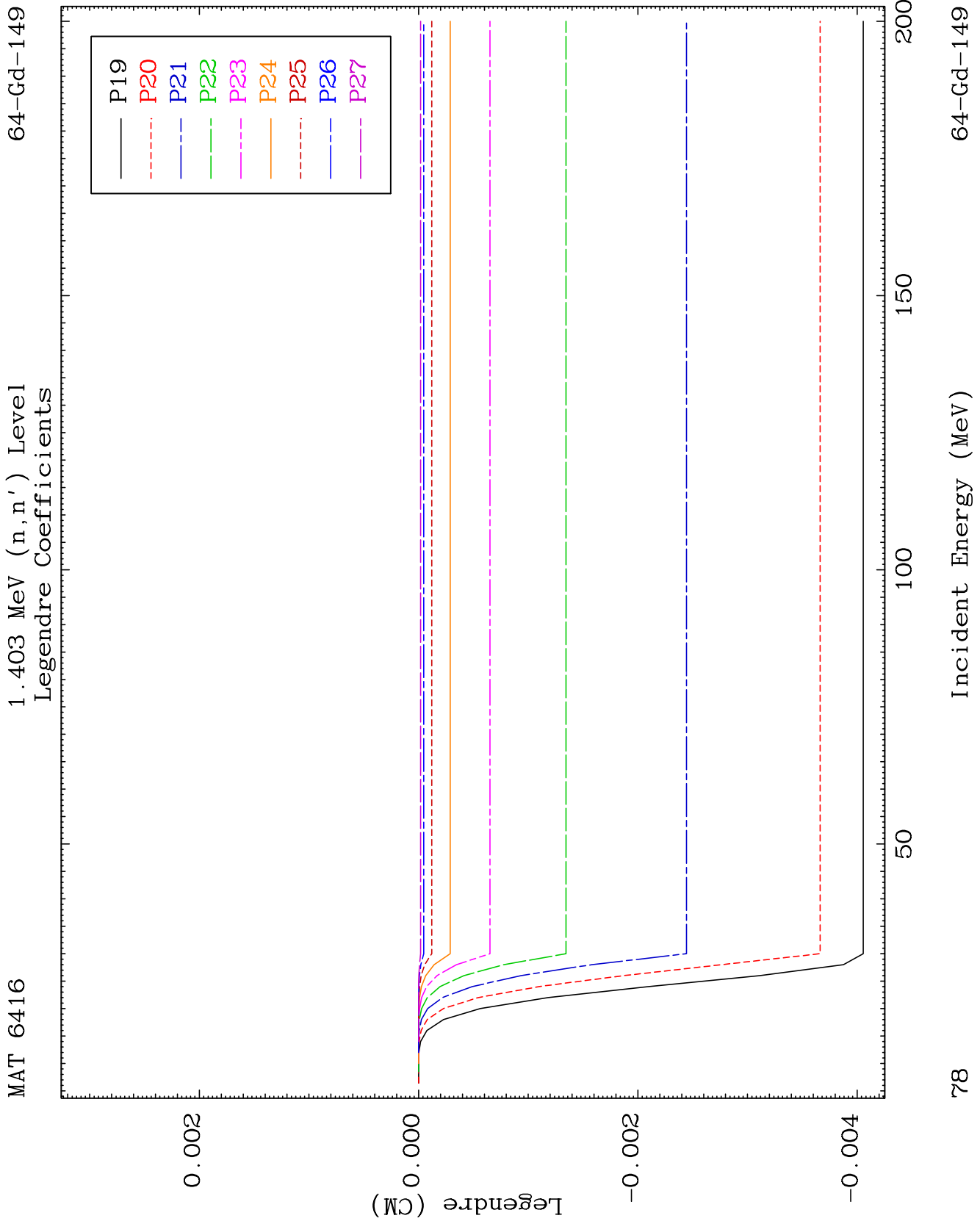


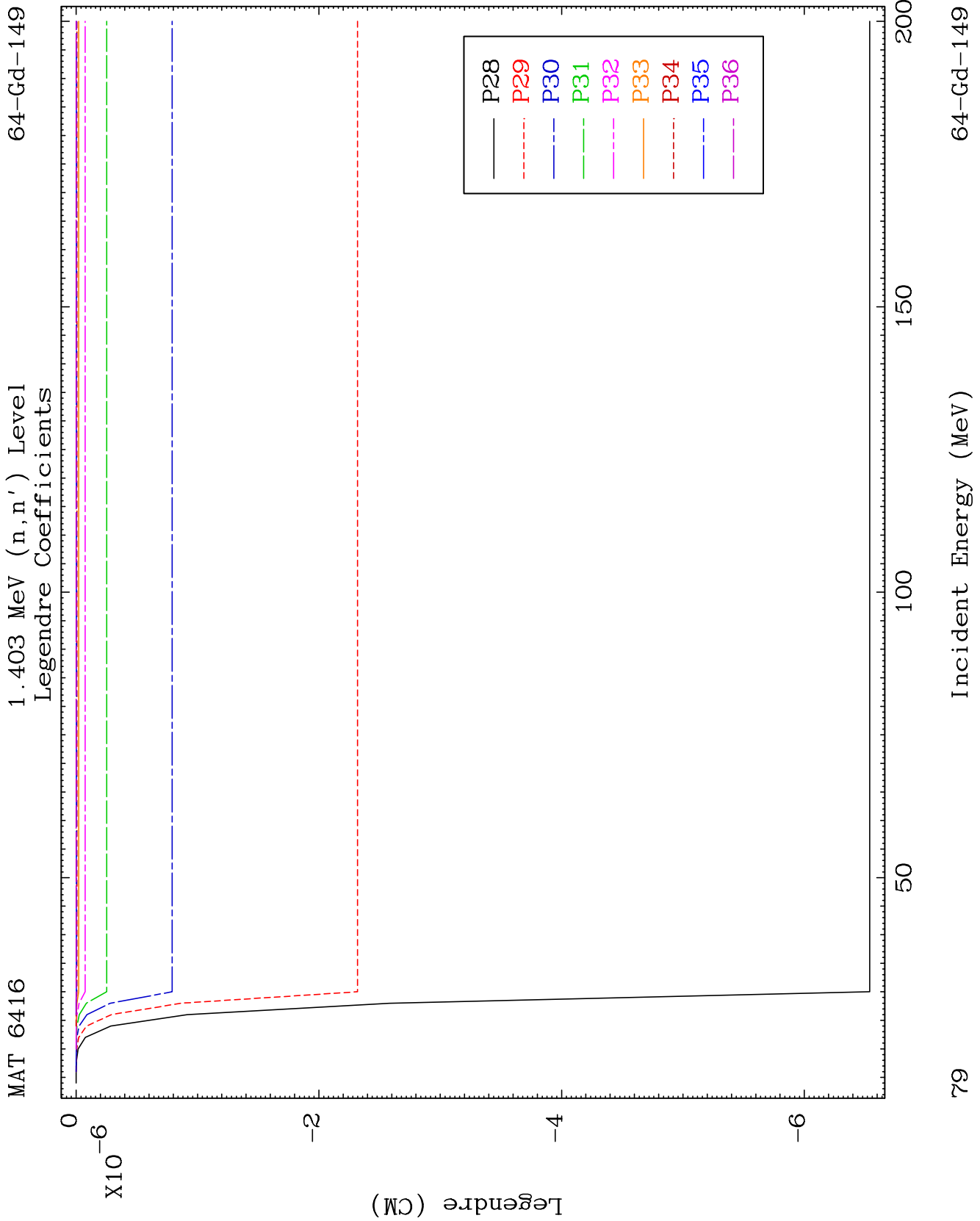
64-Gd-149

Incident Energy (MeV)

76





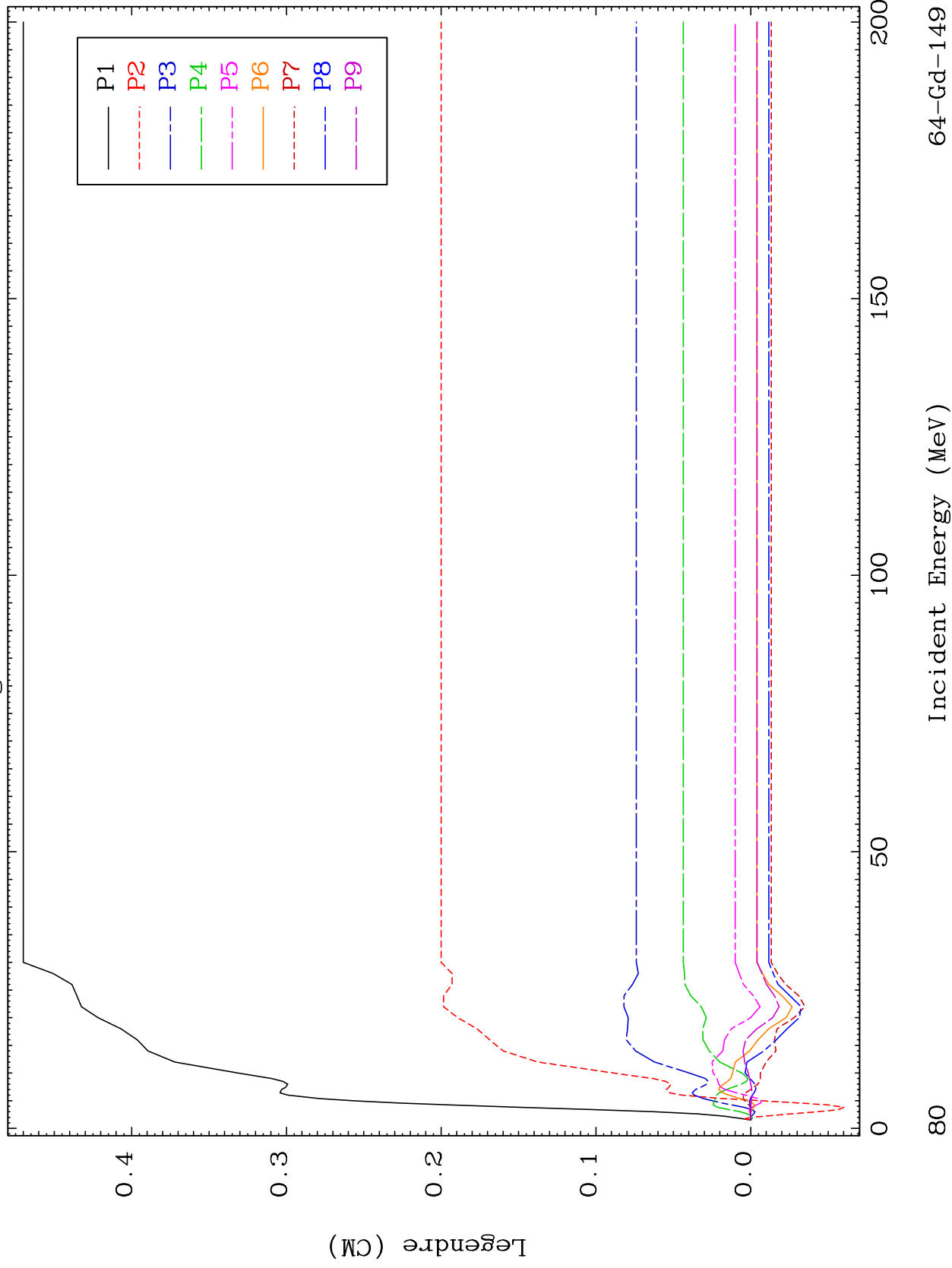




MAT 6416

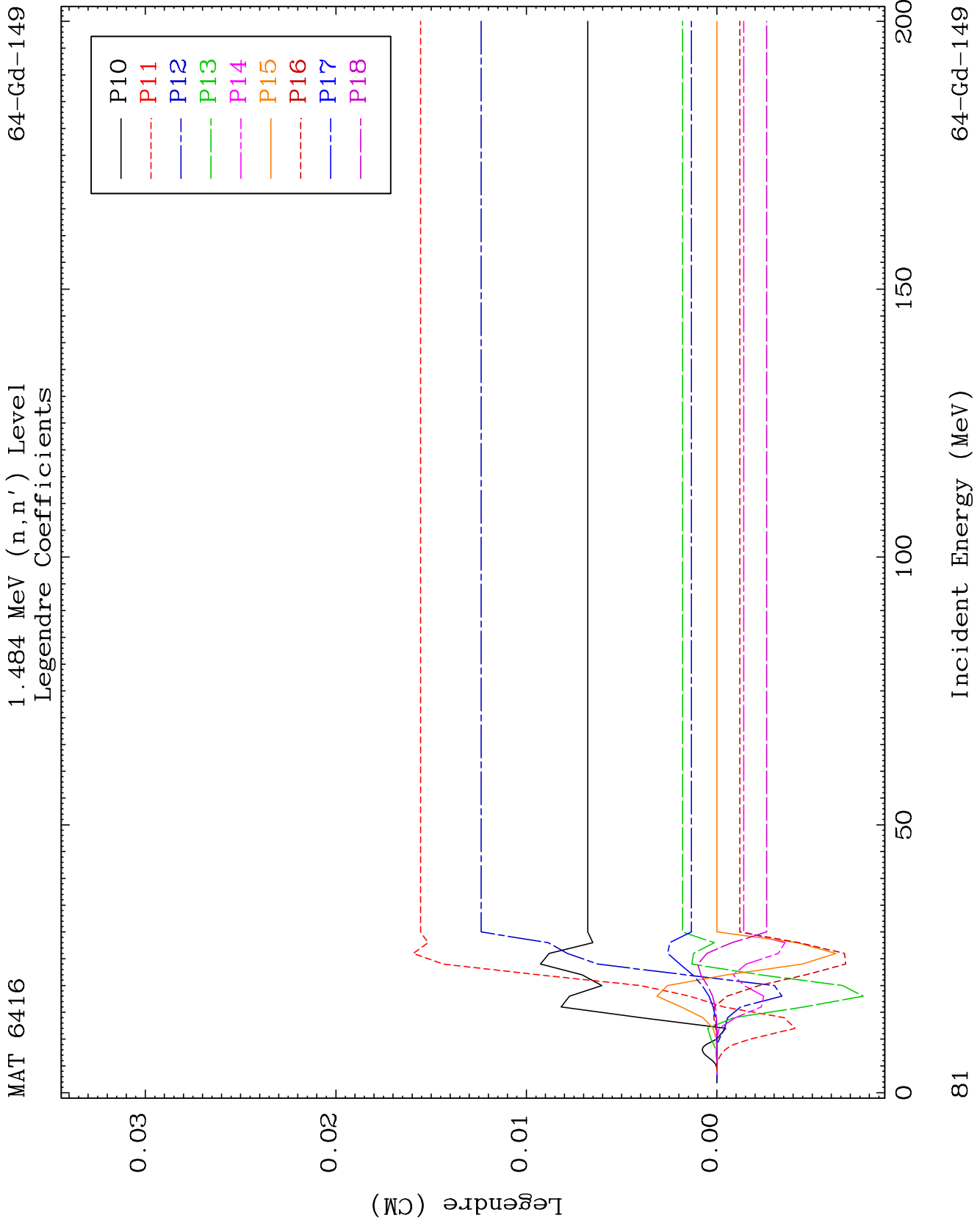
1.484 MeV (n,n') Level  
Legendre Coefficients

64-Gd-149



64-Gd-149

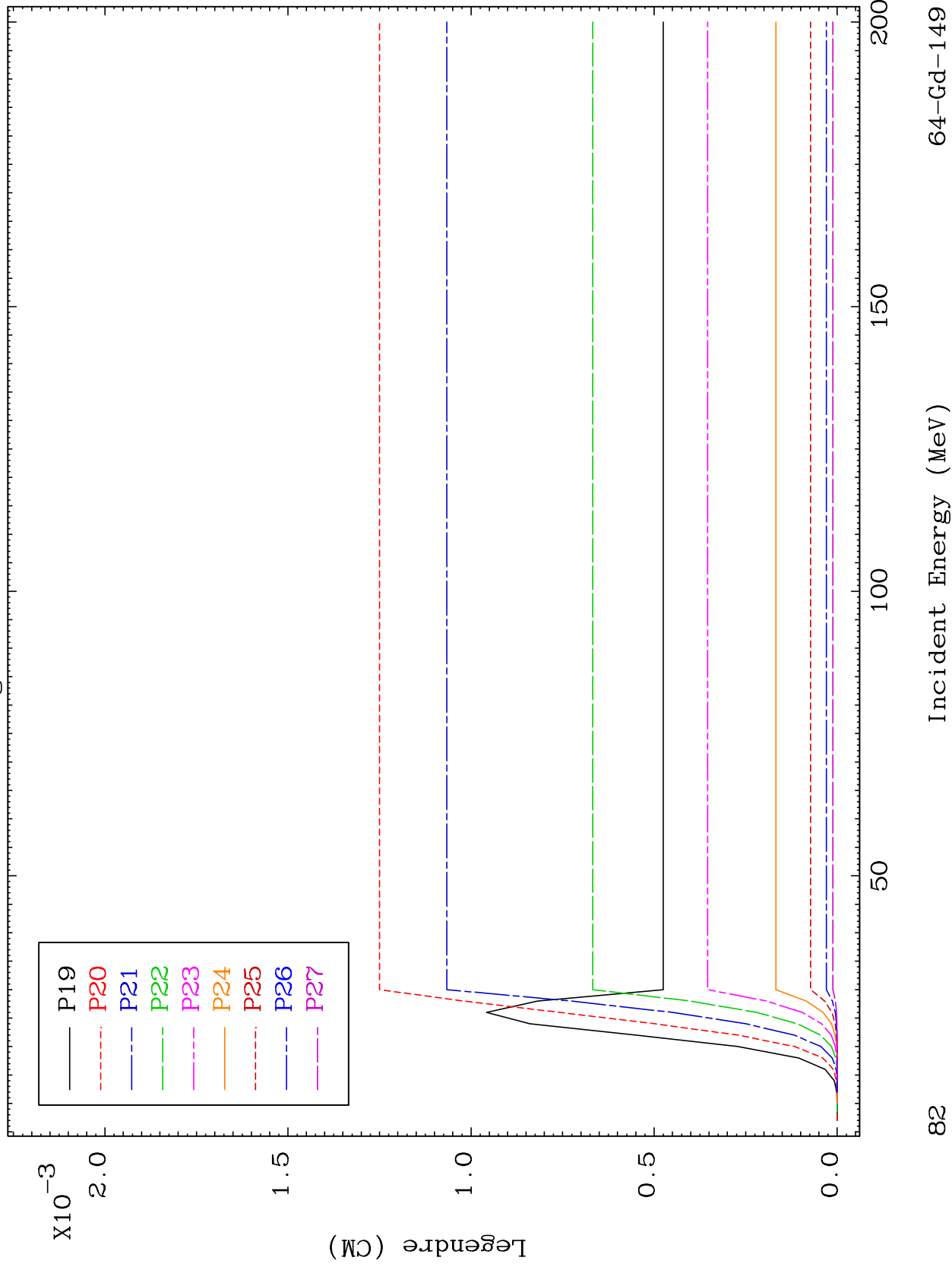
Incident Energy (MeV)



MAT 6416

1.484 MeV (n,n') Level  
Legendre Coefficients

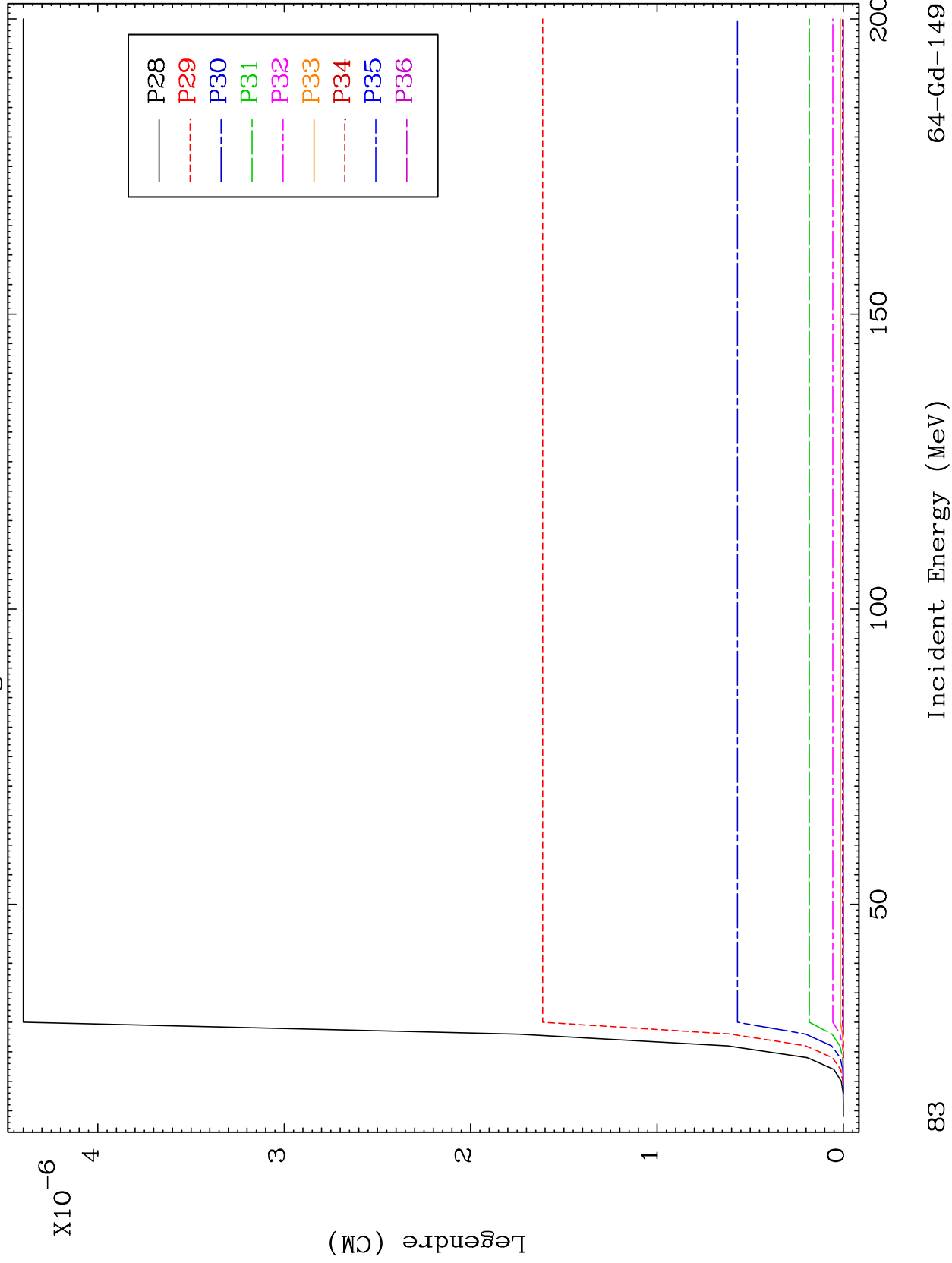
64-Gd-149



MAT 6416

1.484 MeV (n,n') Level  
Legendre Coefficients

64-Gd-149



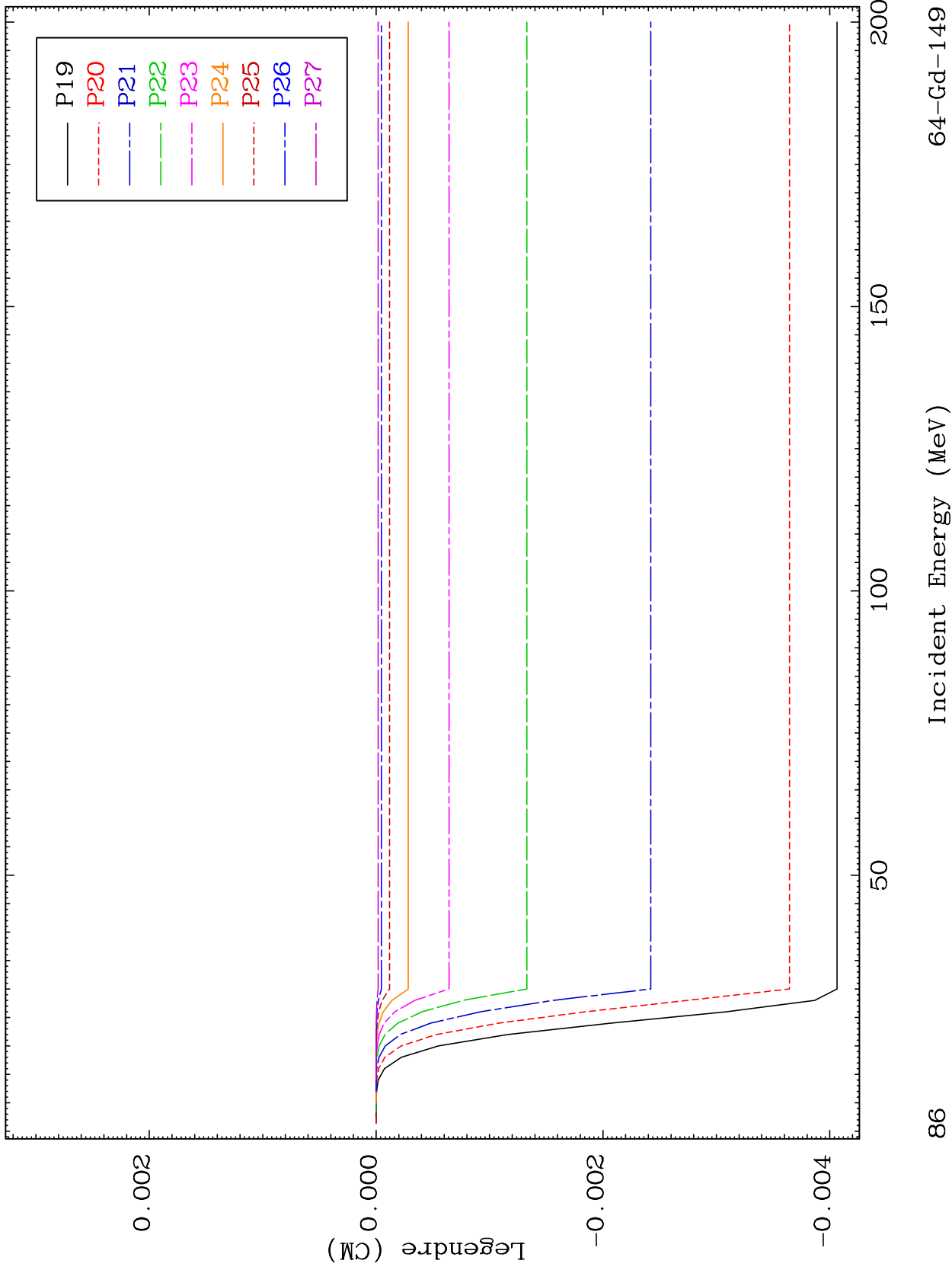
83

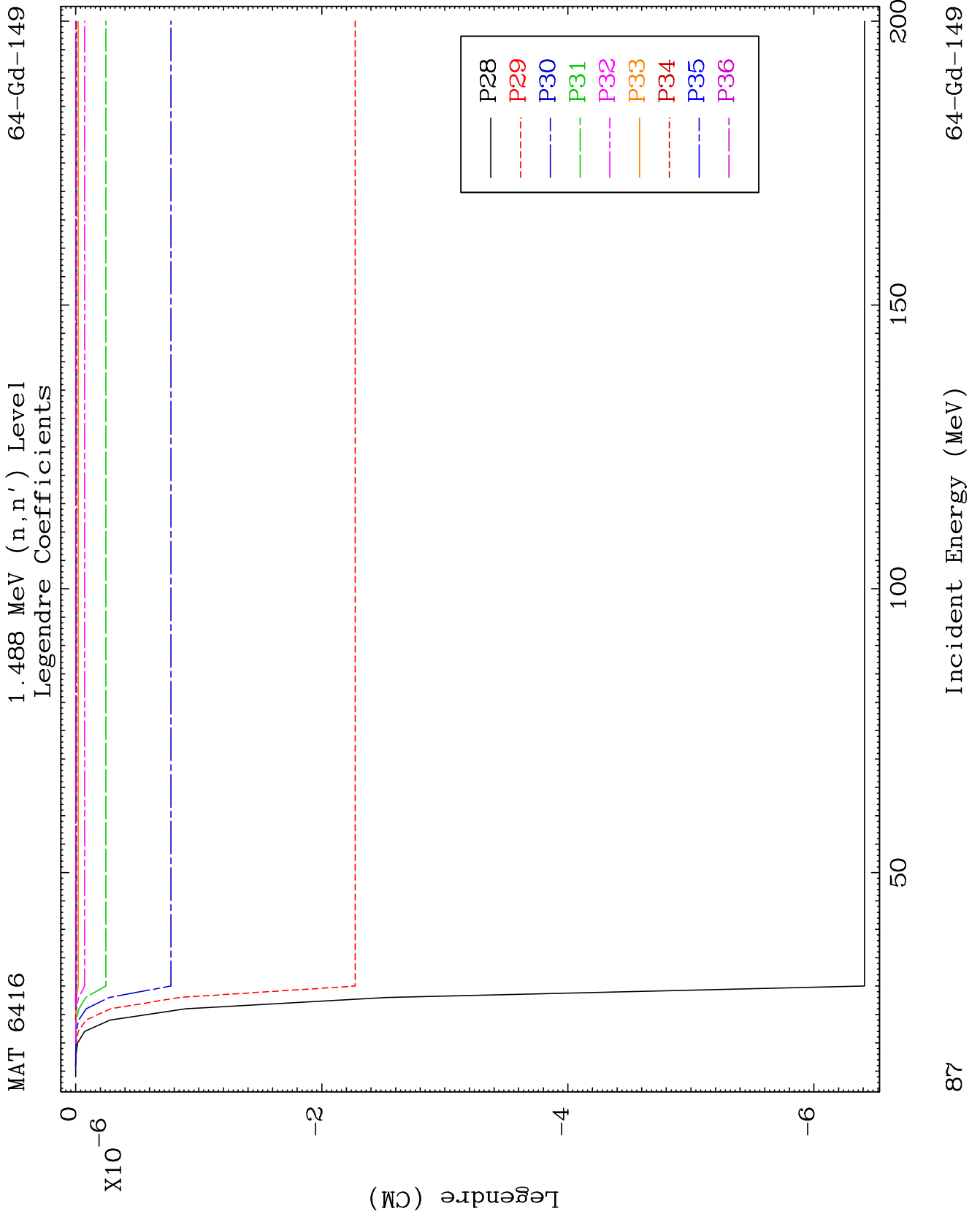
Incident Energy (MeV)

64-Gd-149







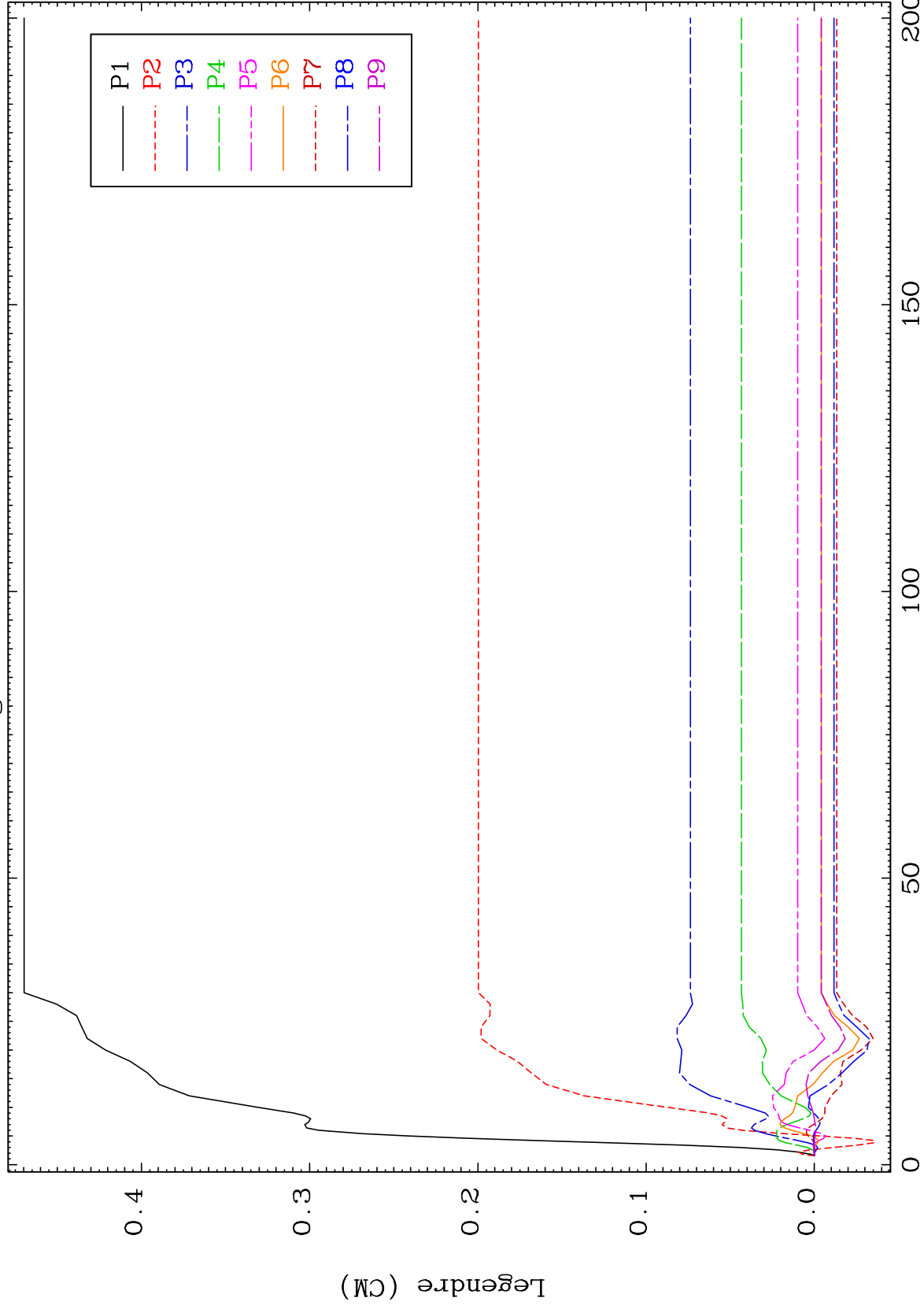




MAT 6416

1.544 MeV (n,n') Level  
Legendre Coefficients

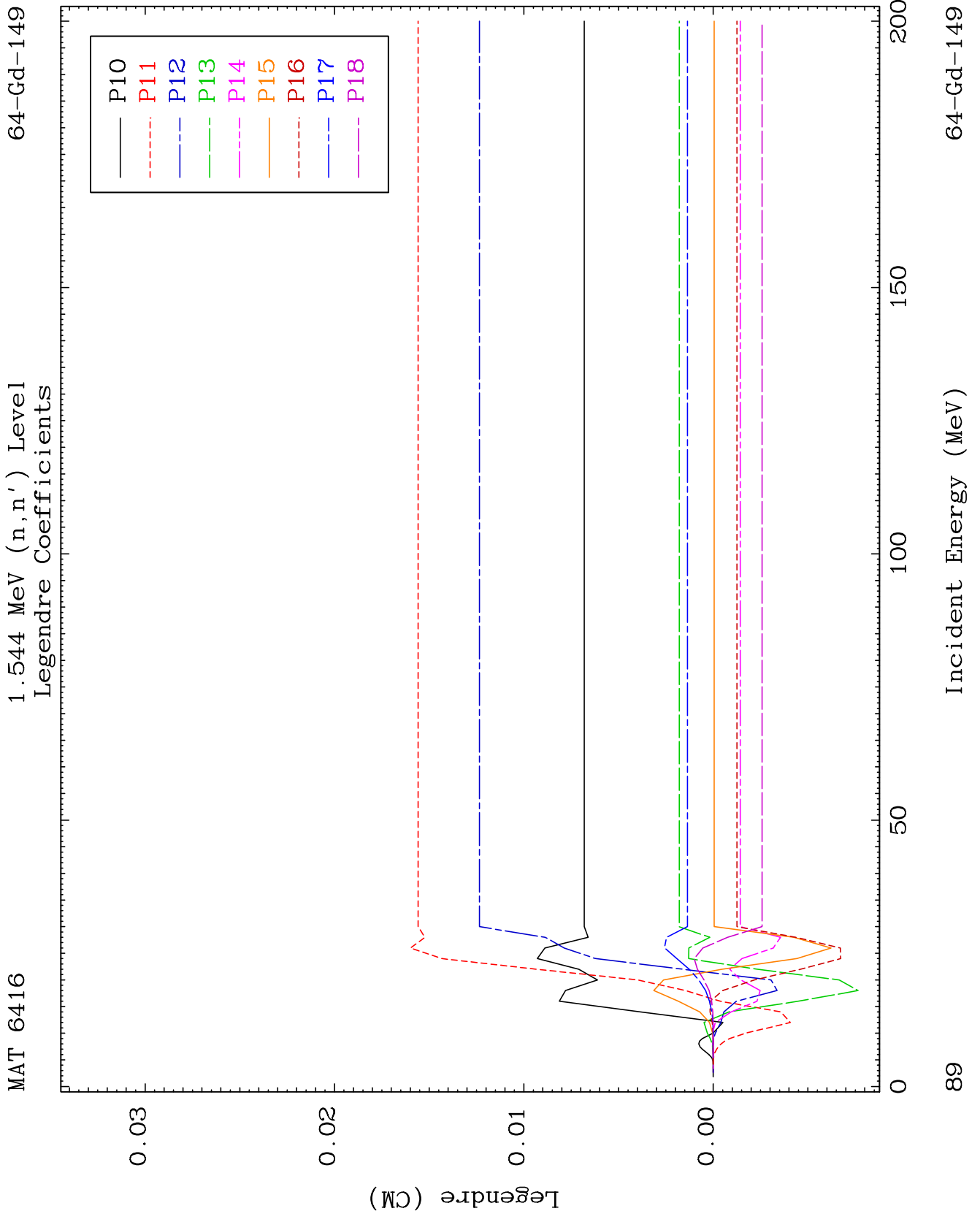
64-Gd-149



88

Incident Energy (MeV)

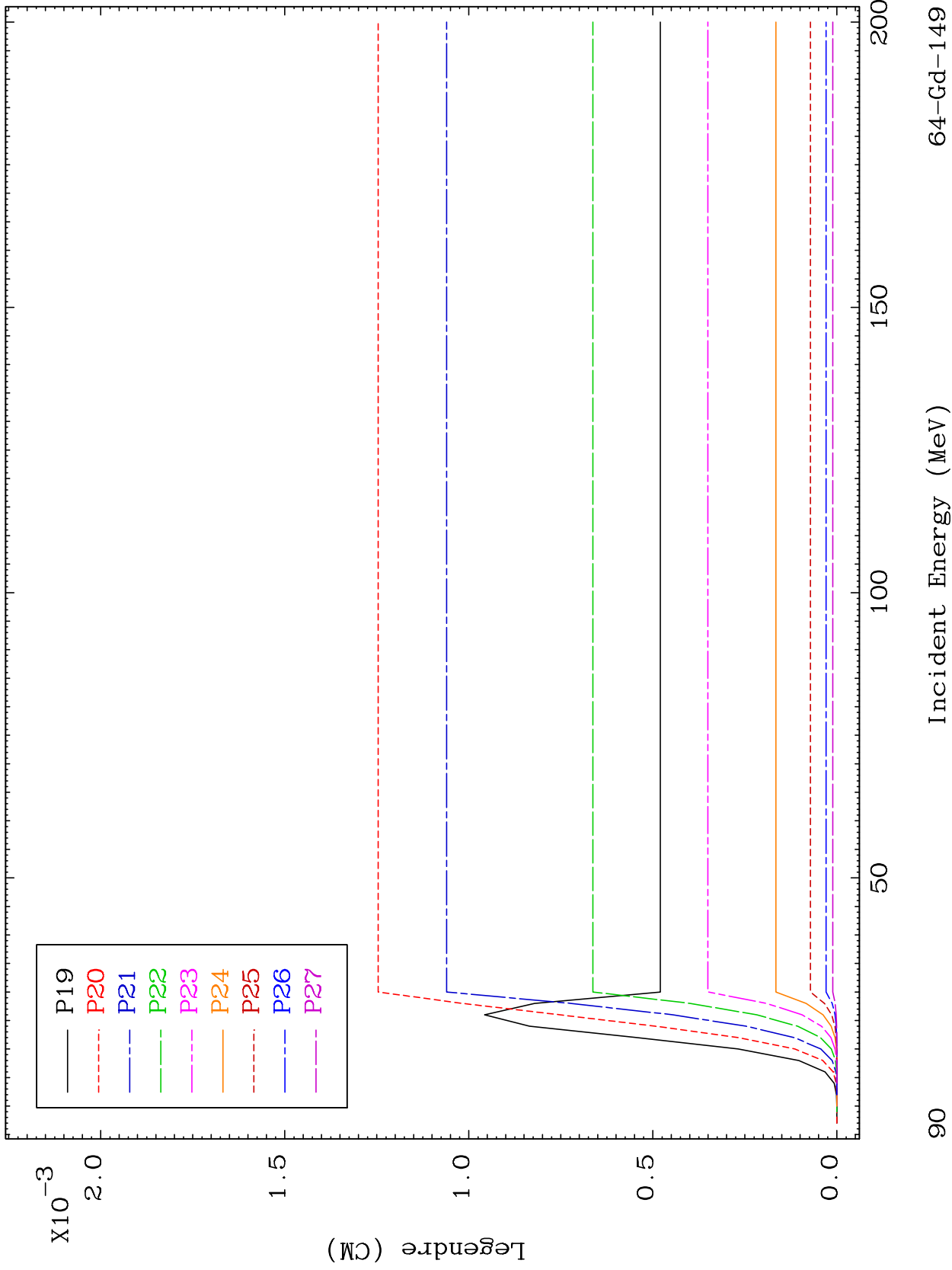
64-Gd-149



MAT 6416

1.544 MeV (n, n') Level  
Legendre Coefficients

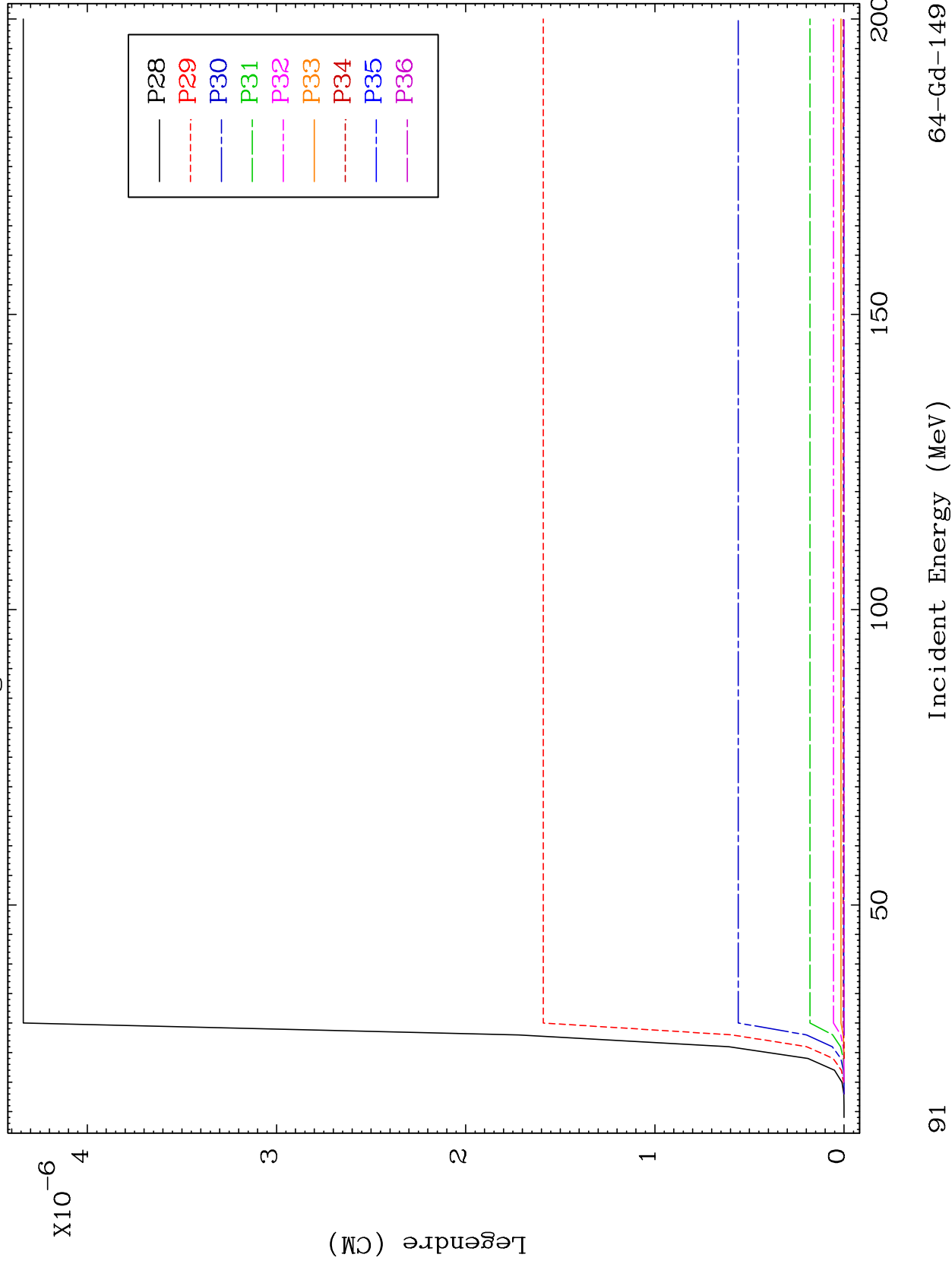
64-Gd-149



MAT 6416

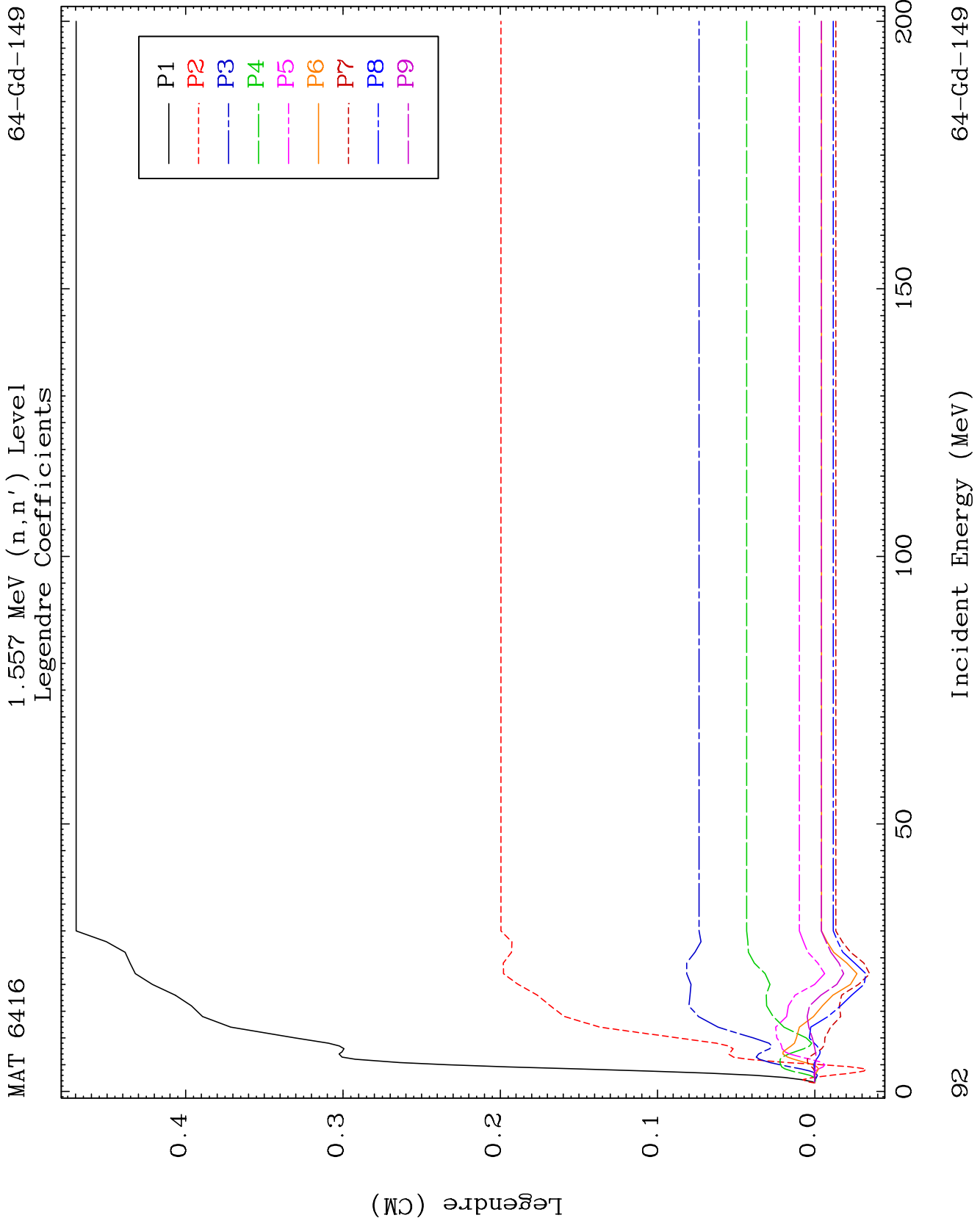
1.544 MeV (n, n') Level  
Legendre Coefficients

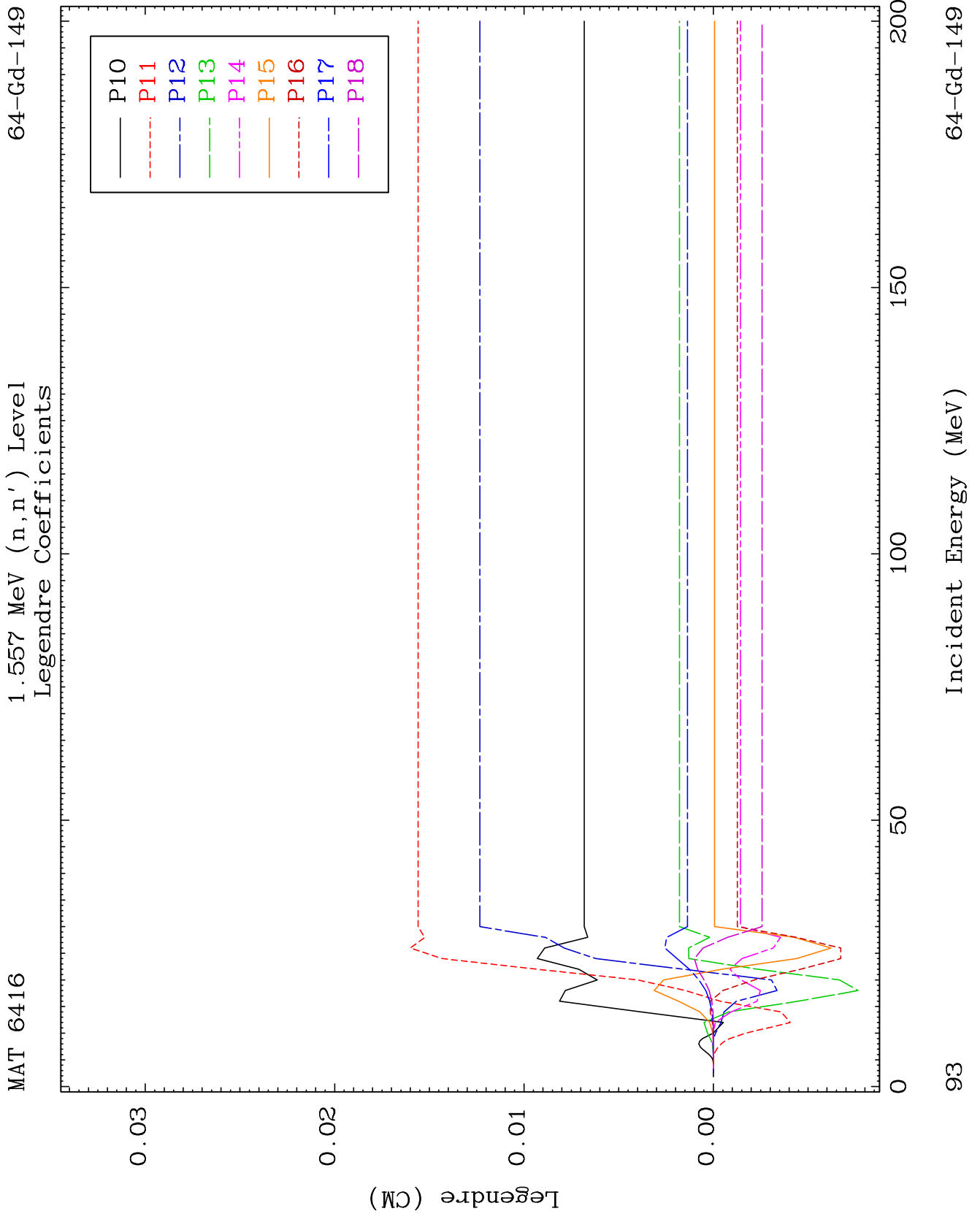
64-Gd-149



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64-Gd-149

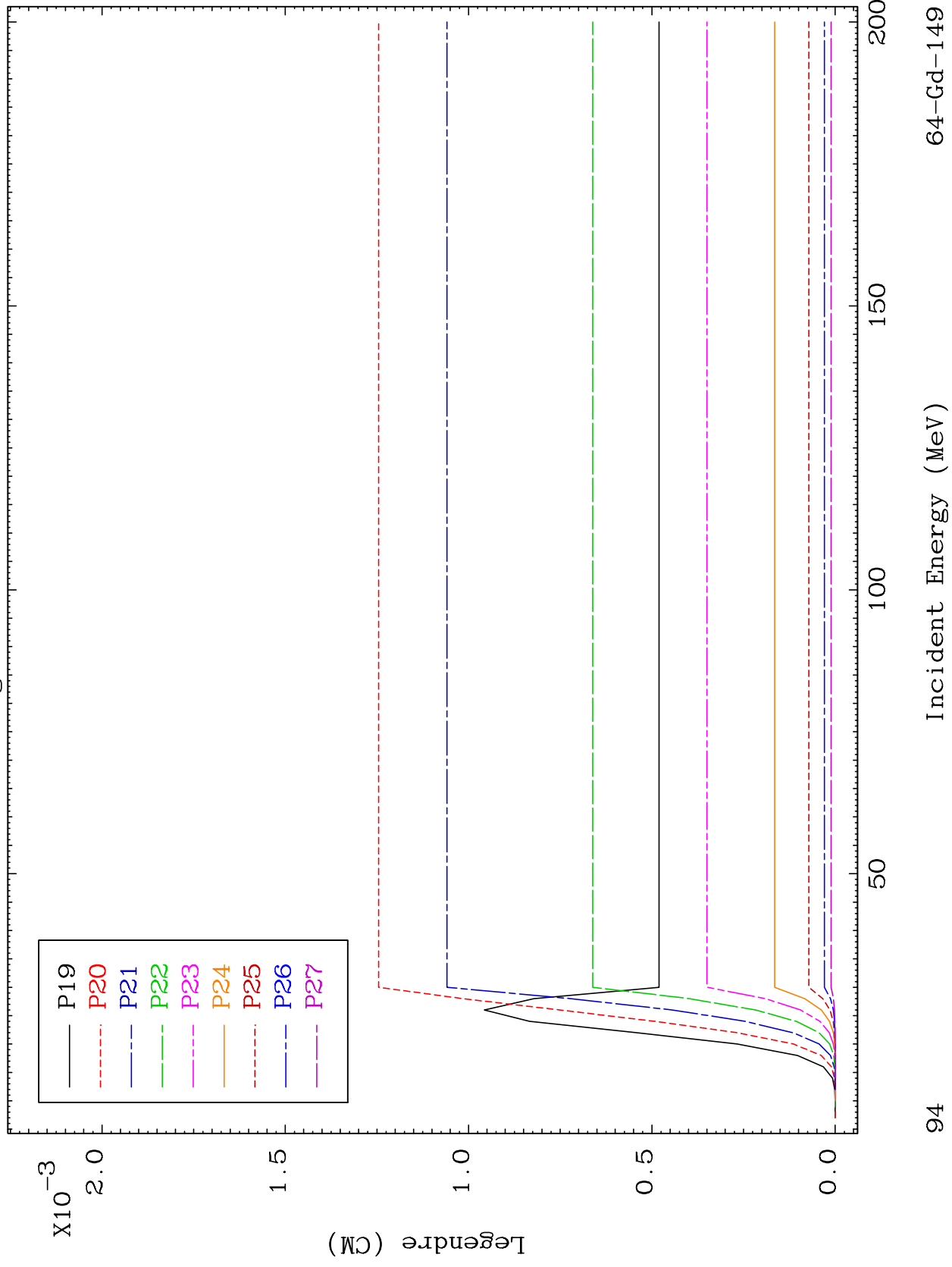


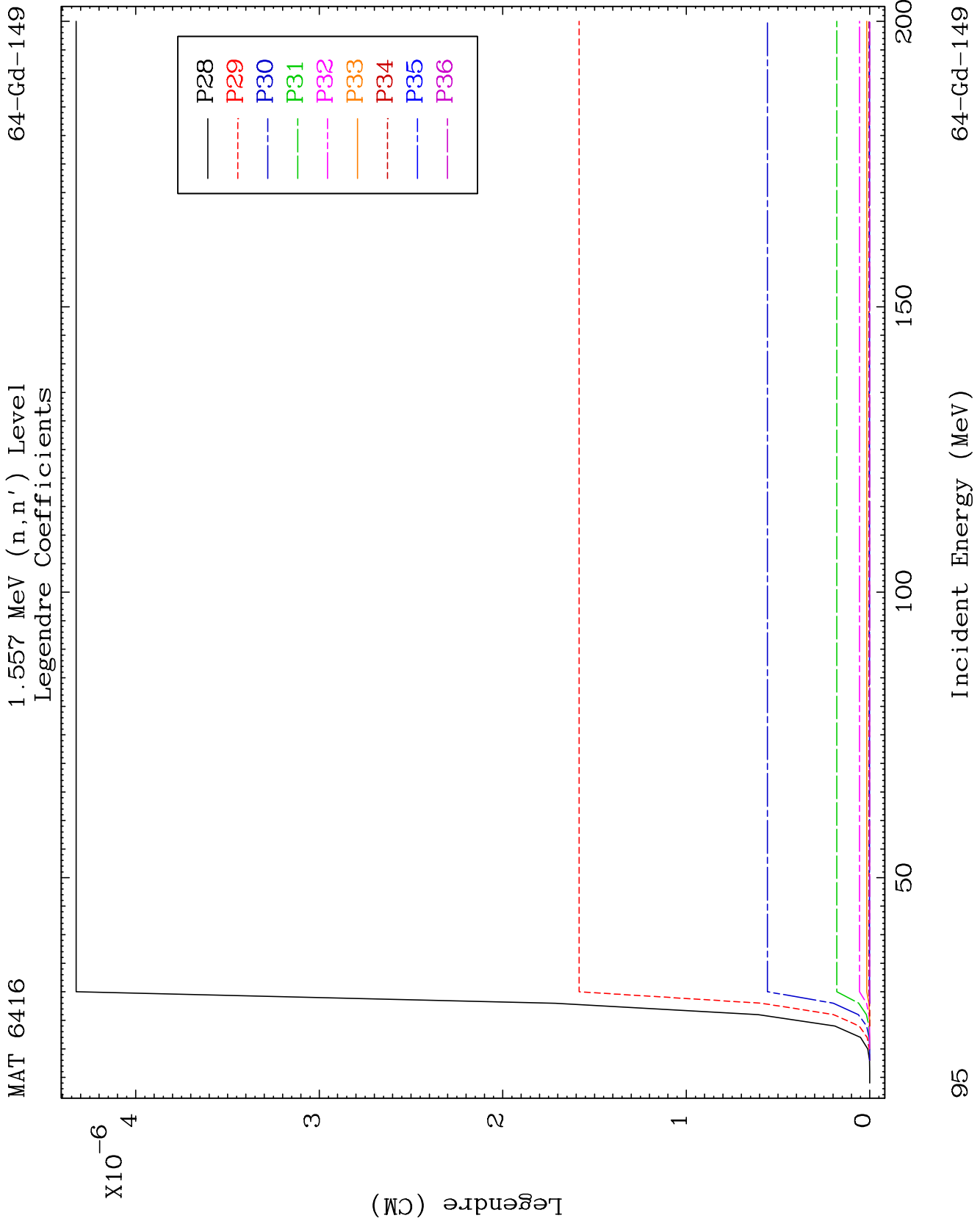


MAT 6416

1.557 MeV (n, n') Level  
Legendre Coefficients

64-Gd-149

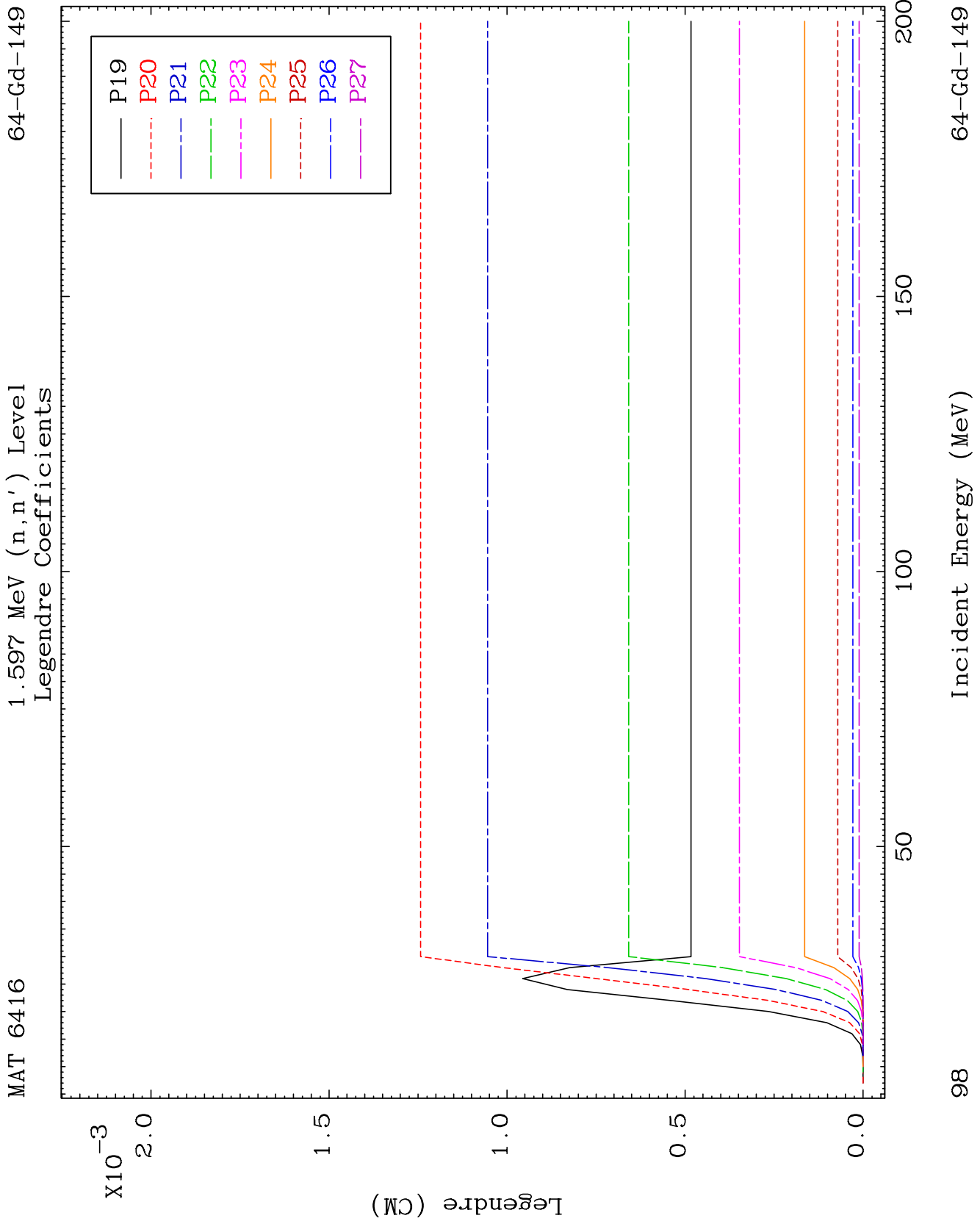


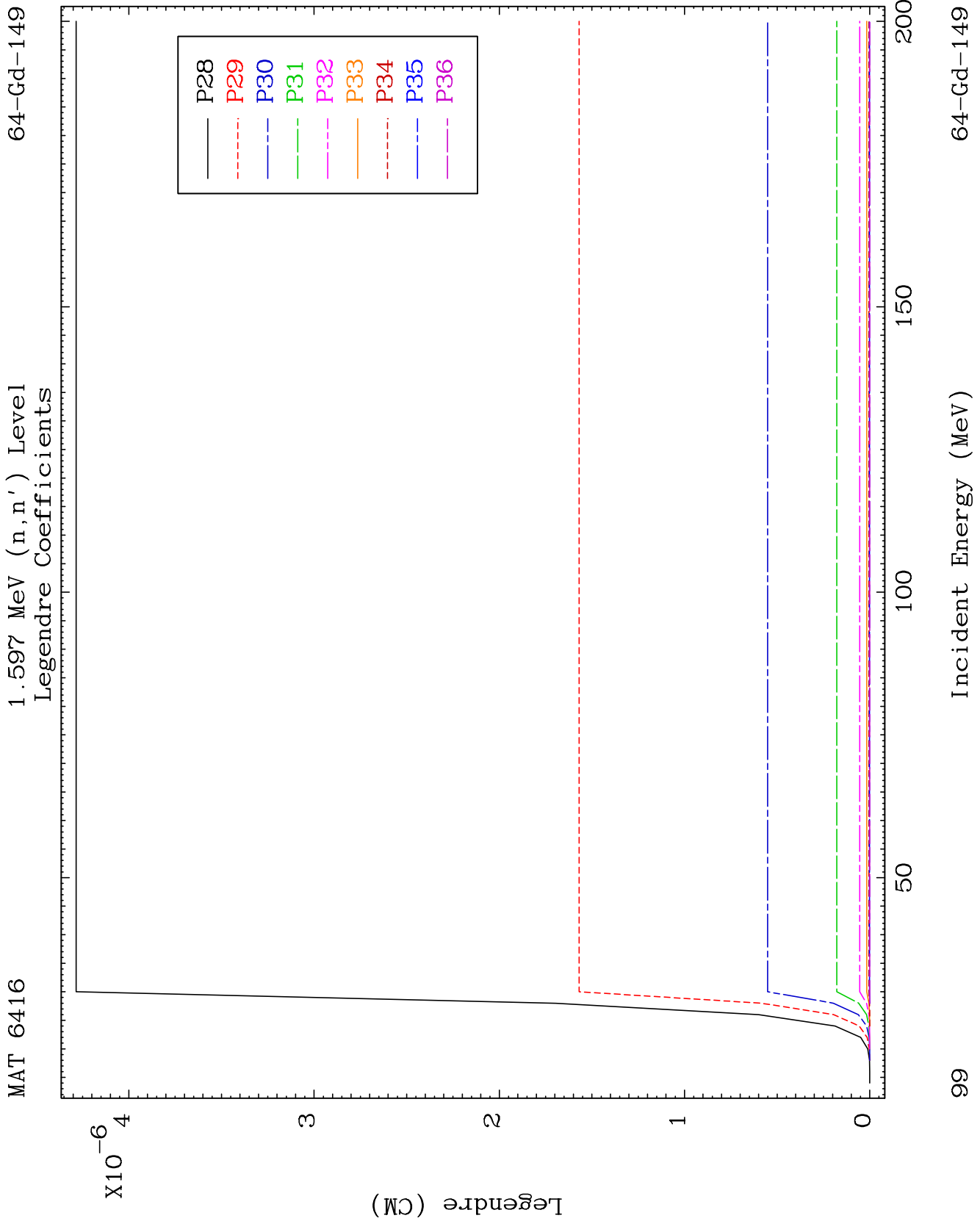


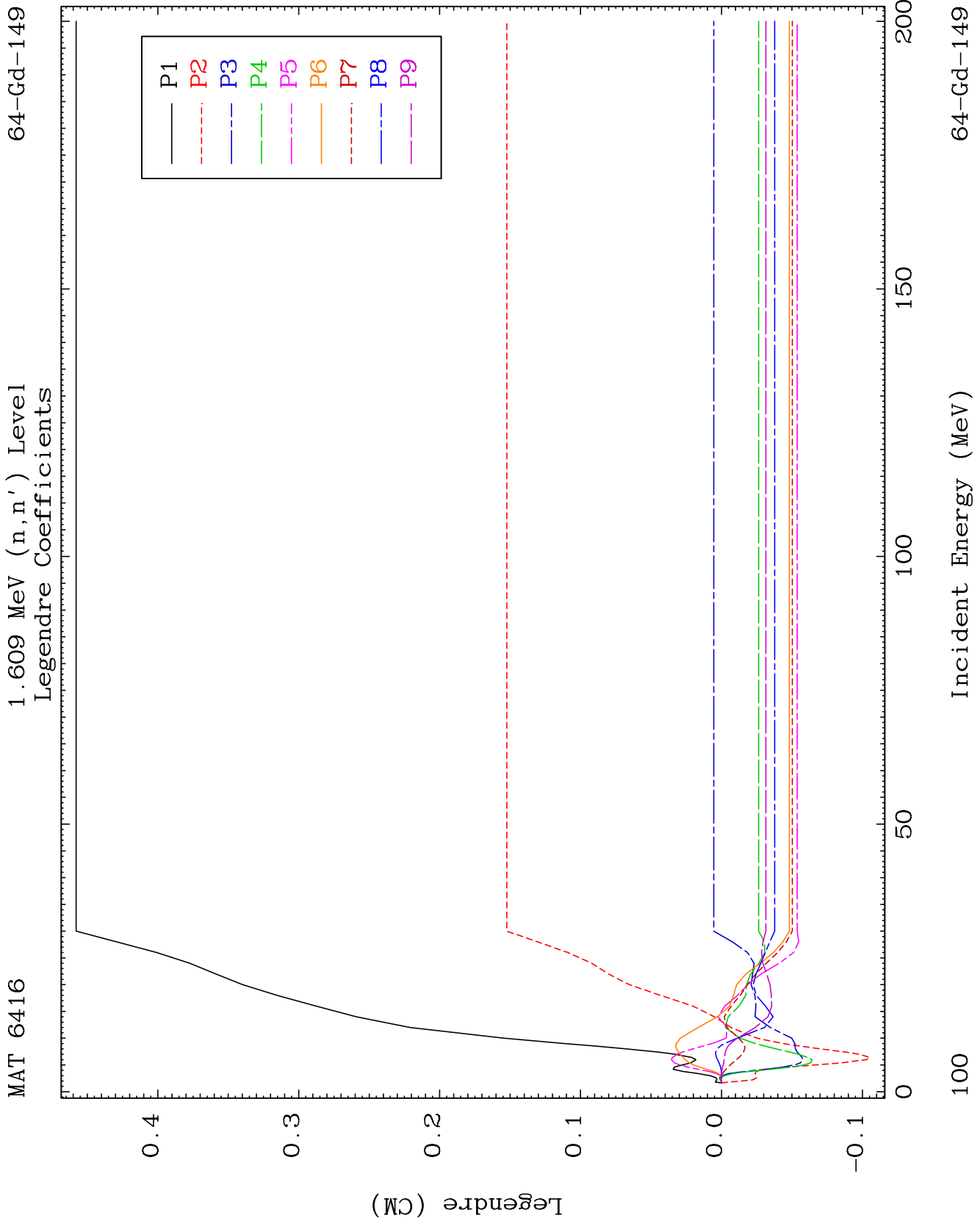


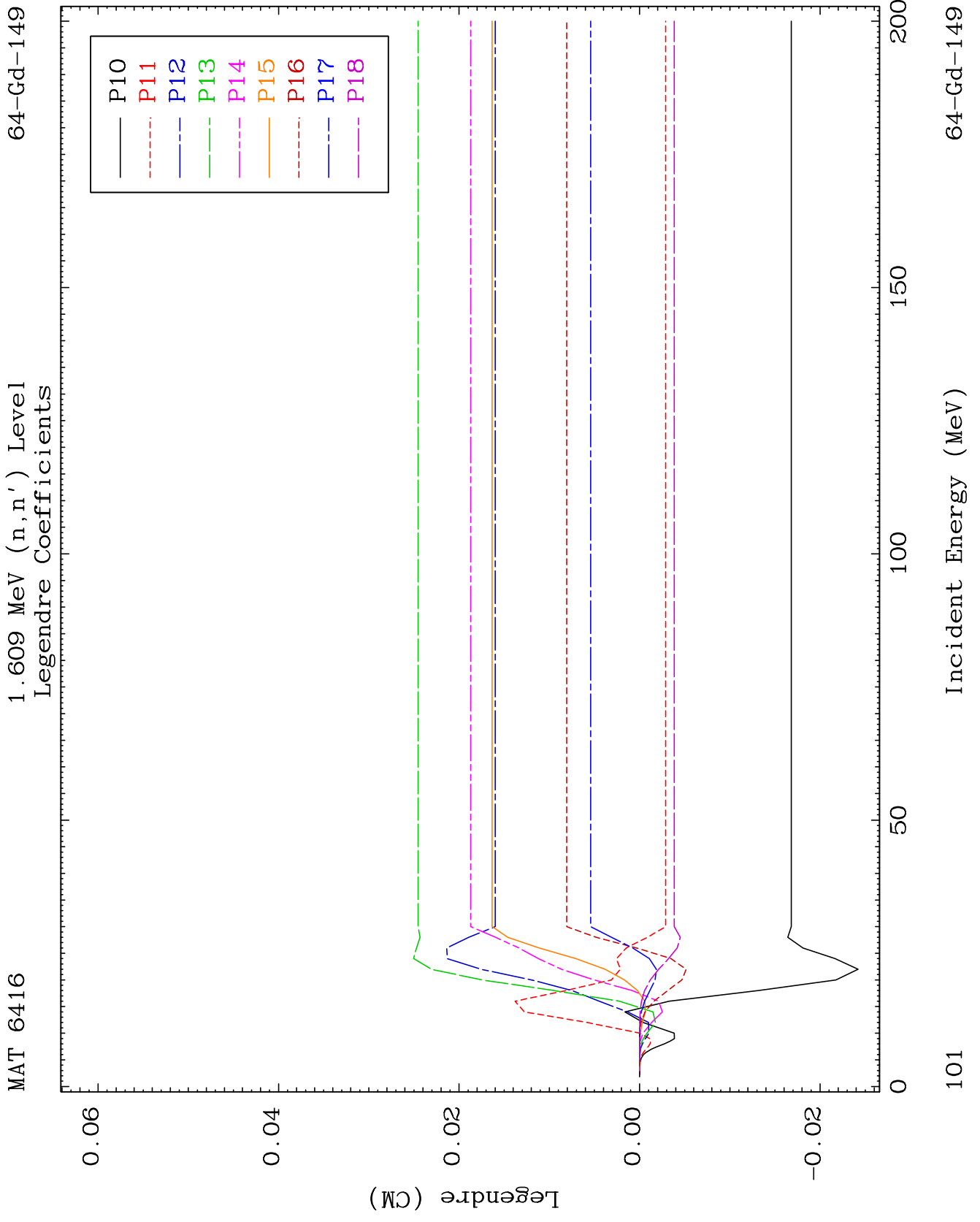




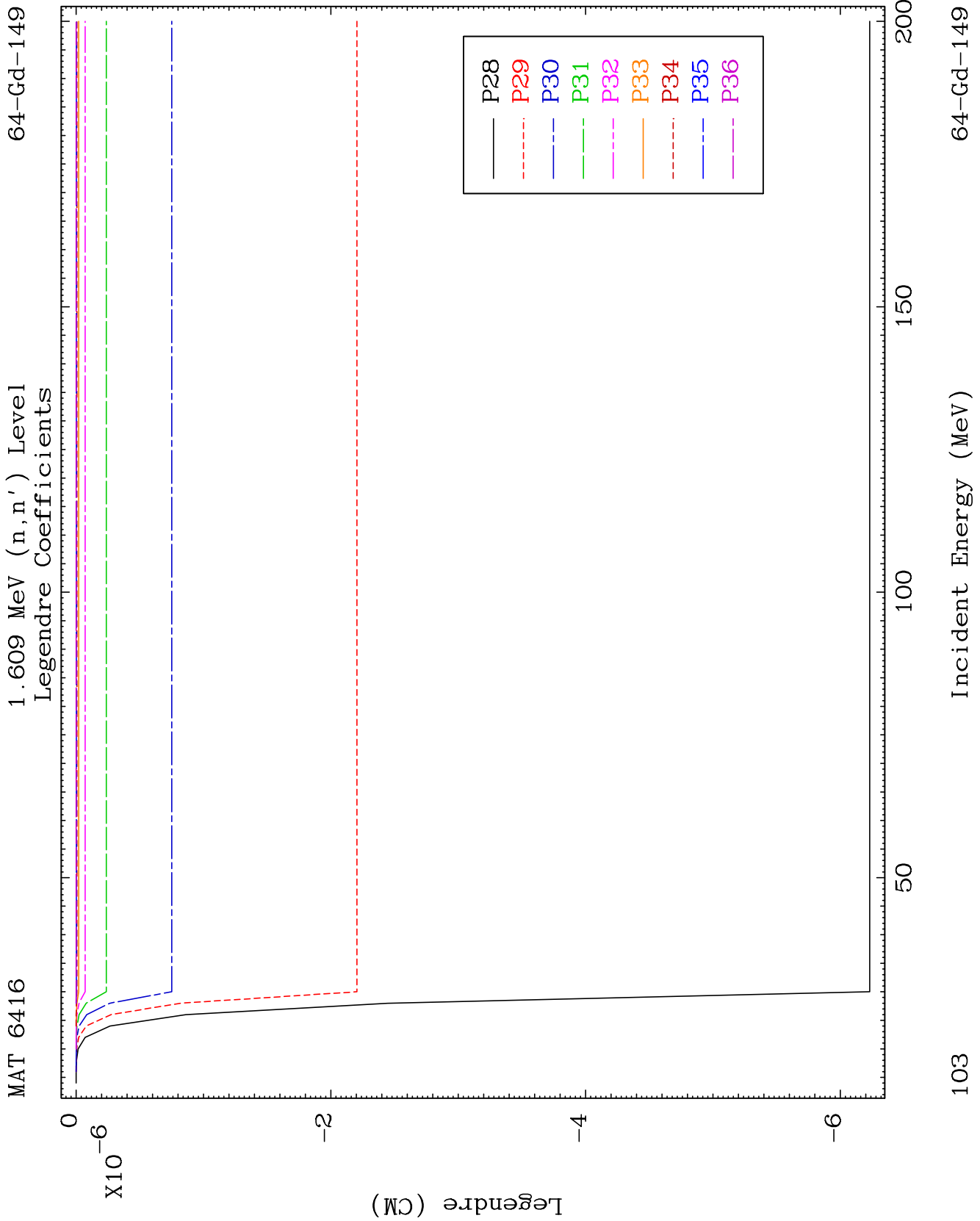










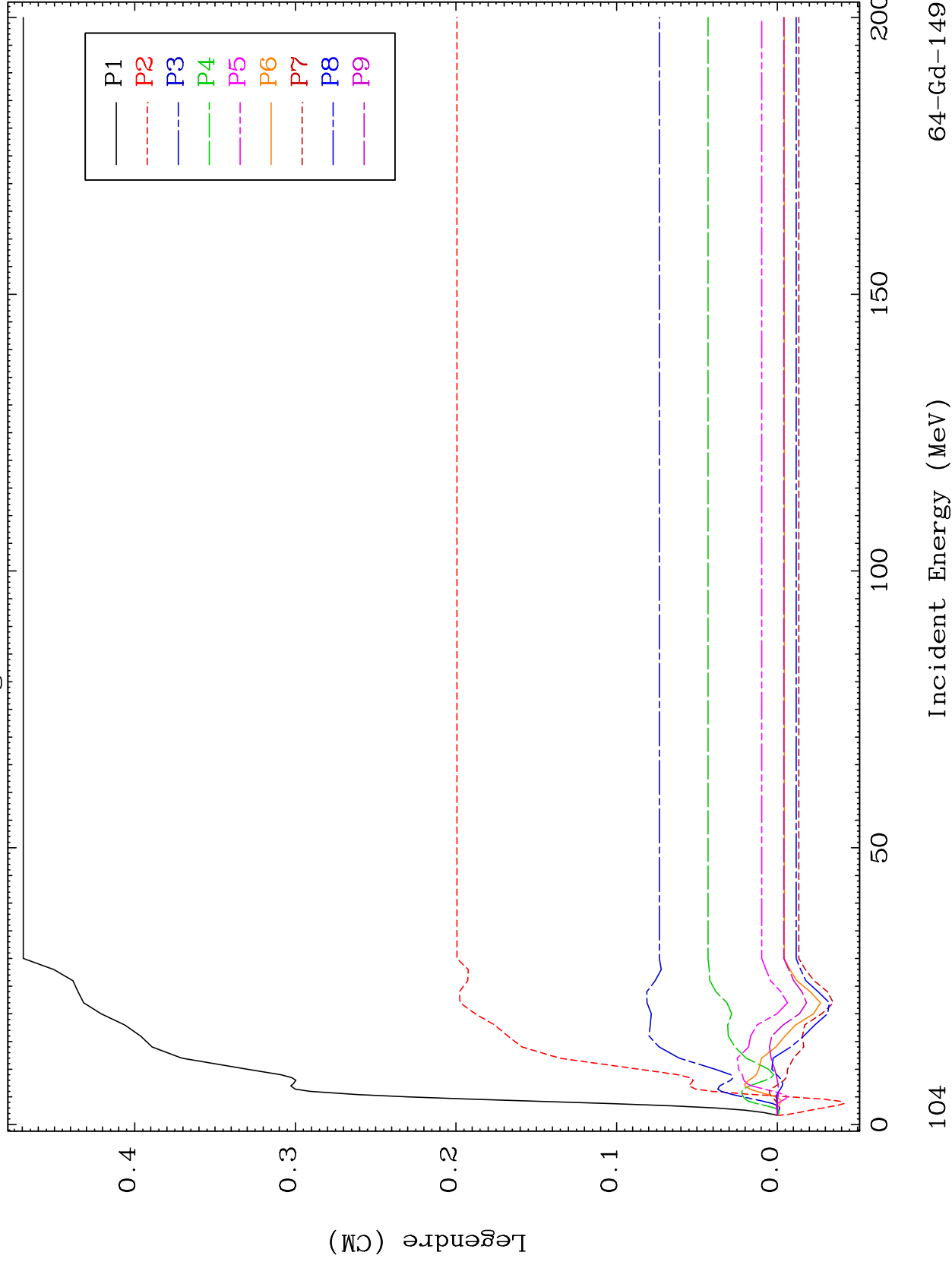




MAT 6416

1.614 MeV (n,n') Level  
Legendre Coefficients

64-Gd-149



64-Gd-149

Incident Energy (MeV)

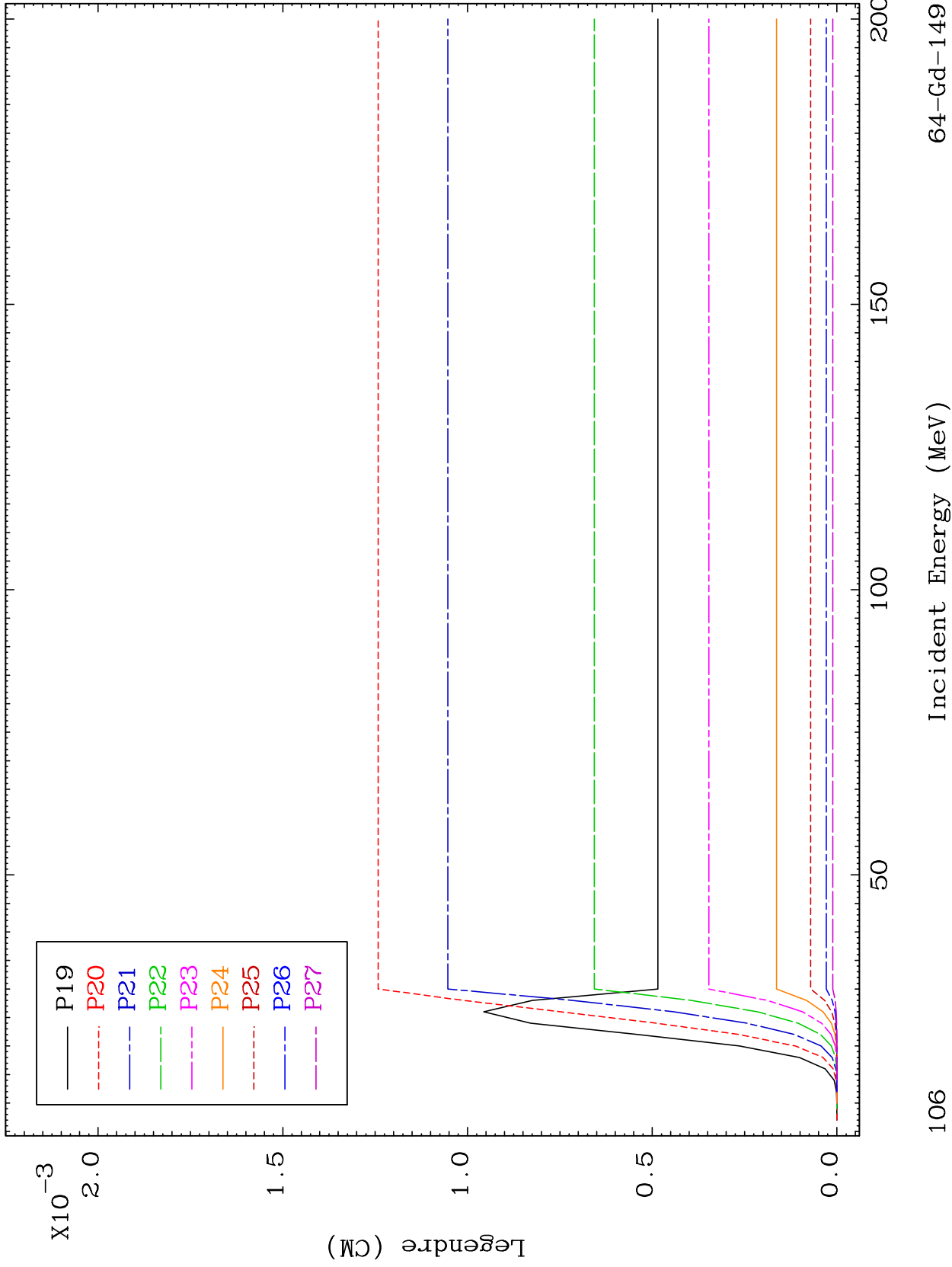
104



MAT 6416

1.614 MeV (n,n') Level  
Legendre Coefficients

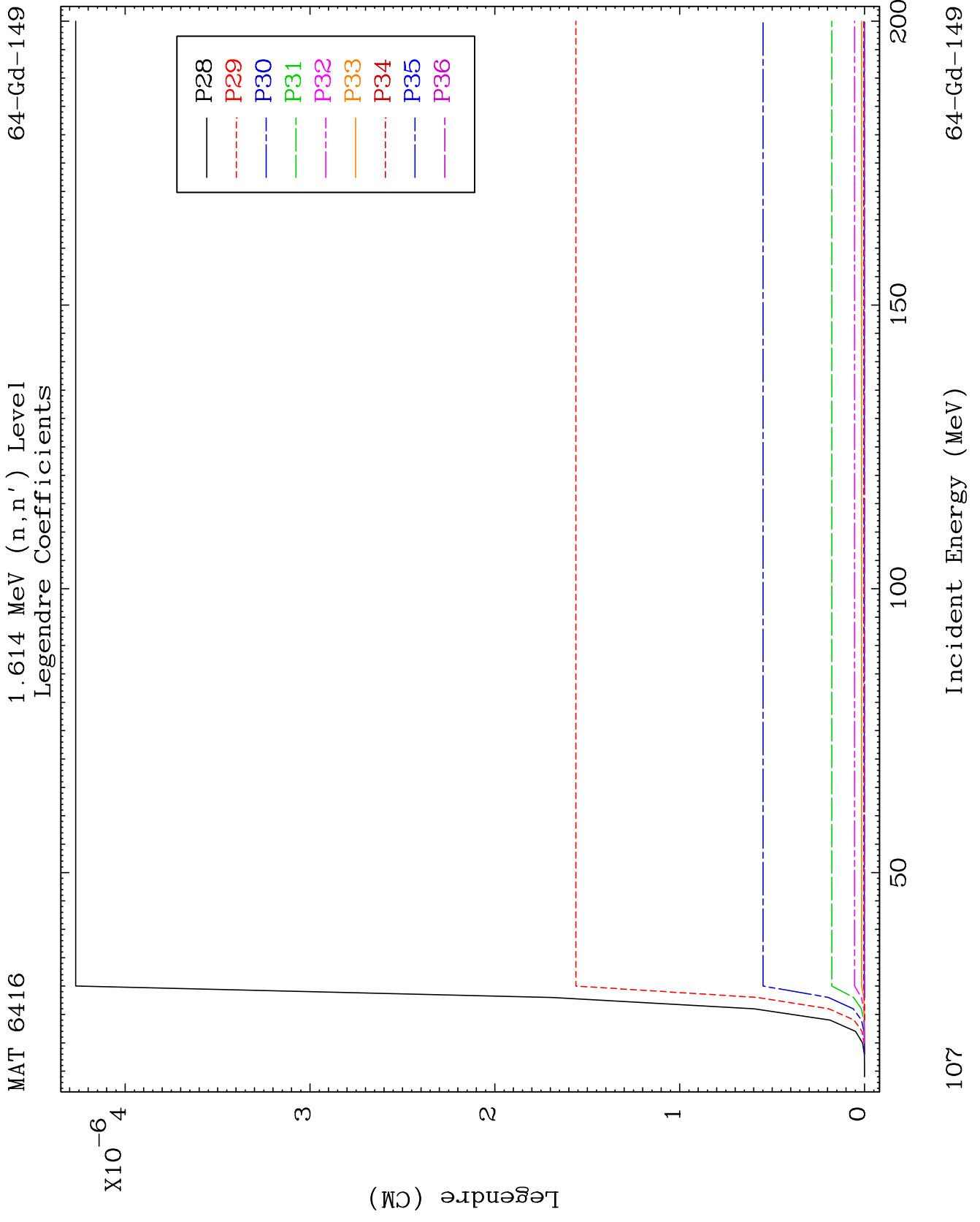
64-Gd-149

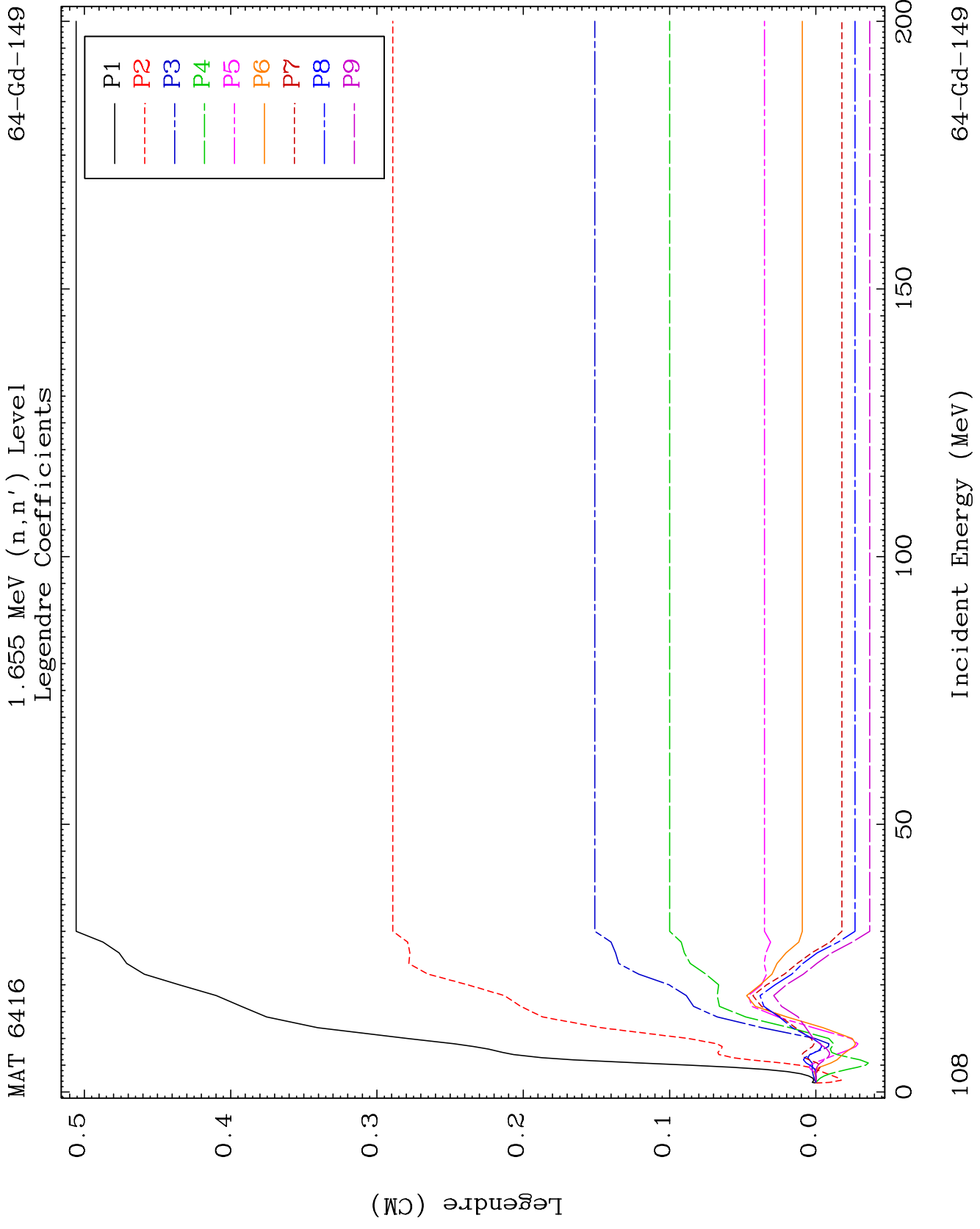


106

Incident Energy (MeV)

64-Gd-149



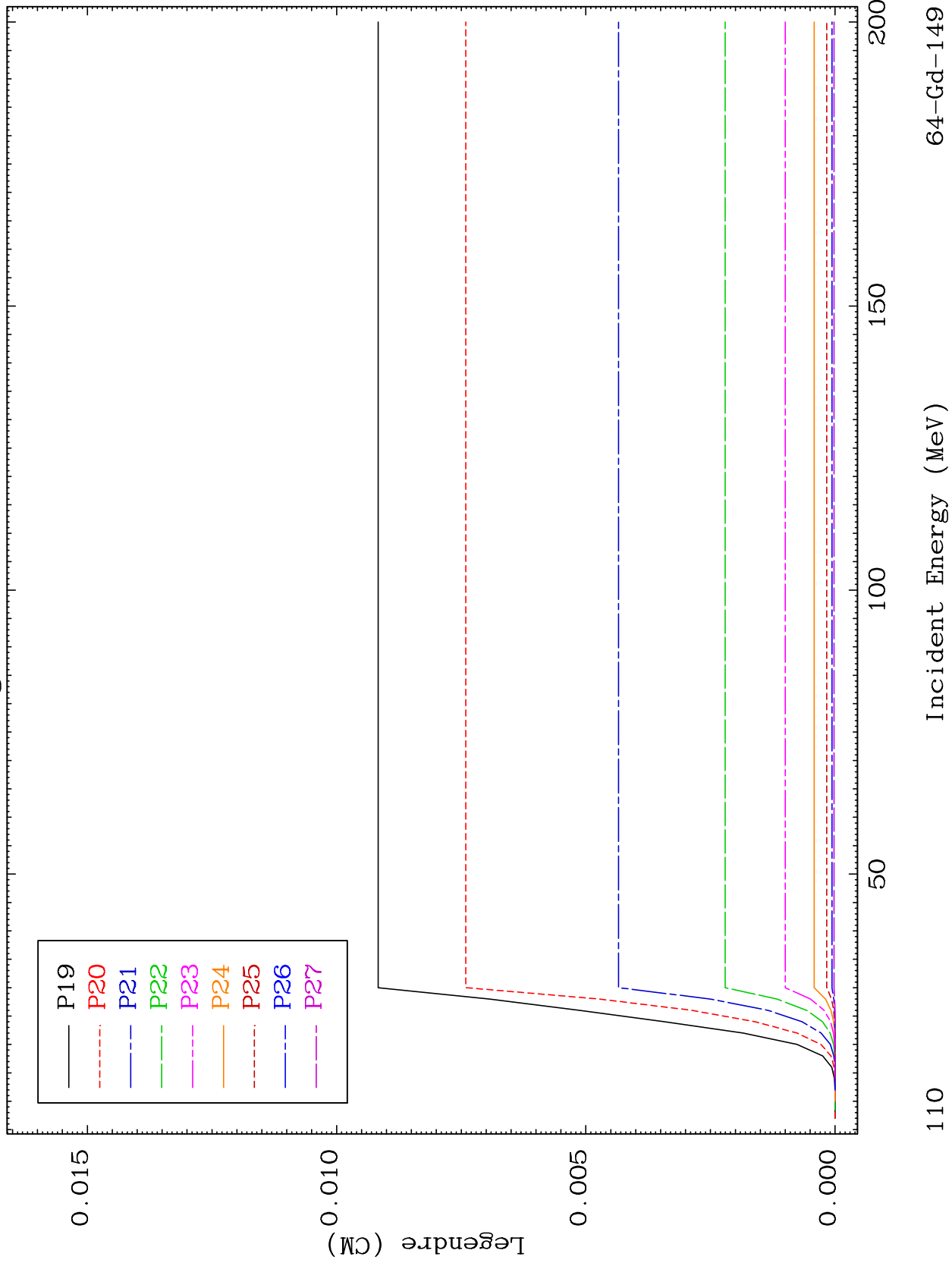




MAT 6416

1.655 MeV (n, n') Level  
Legendre Coefficients

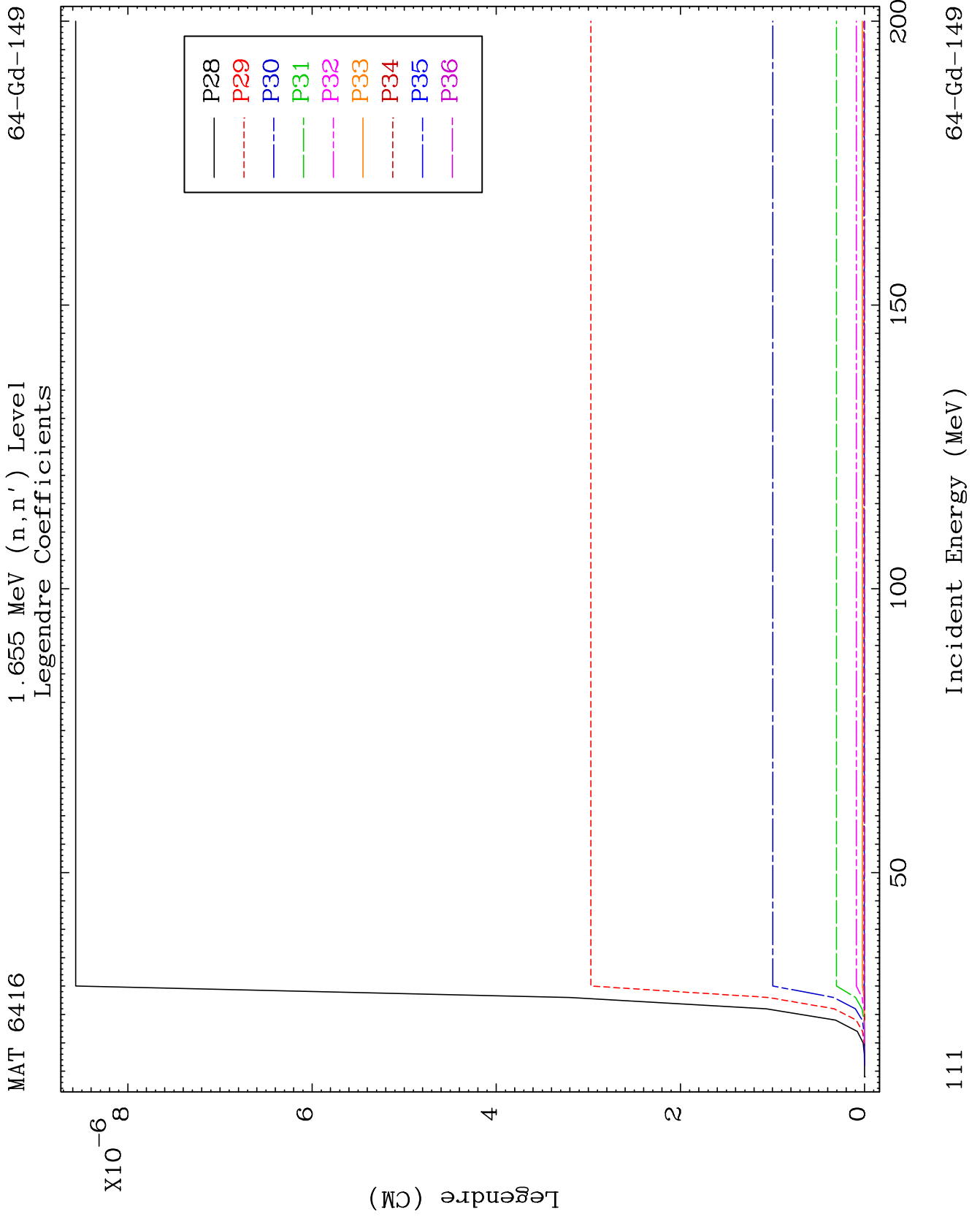
64-Gd-149



110

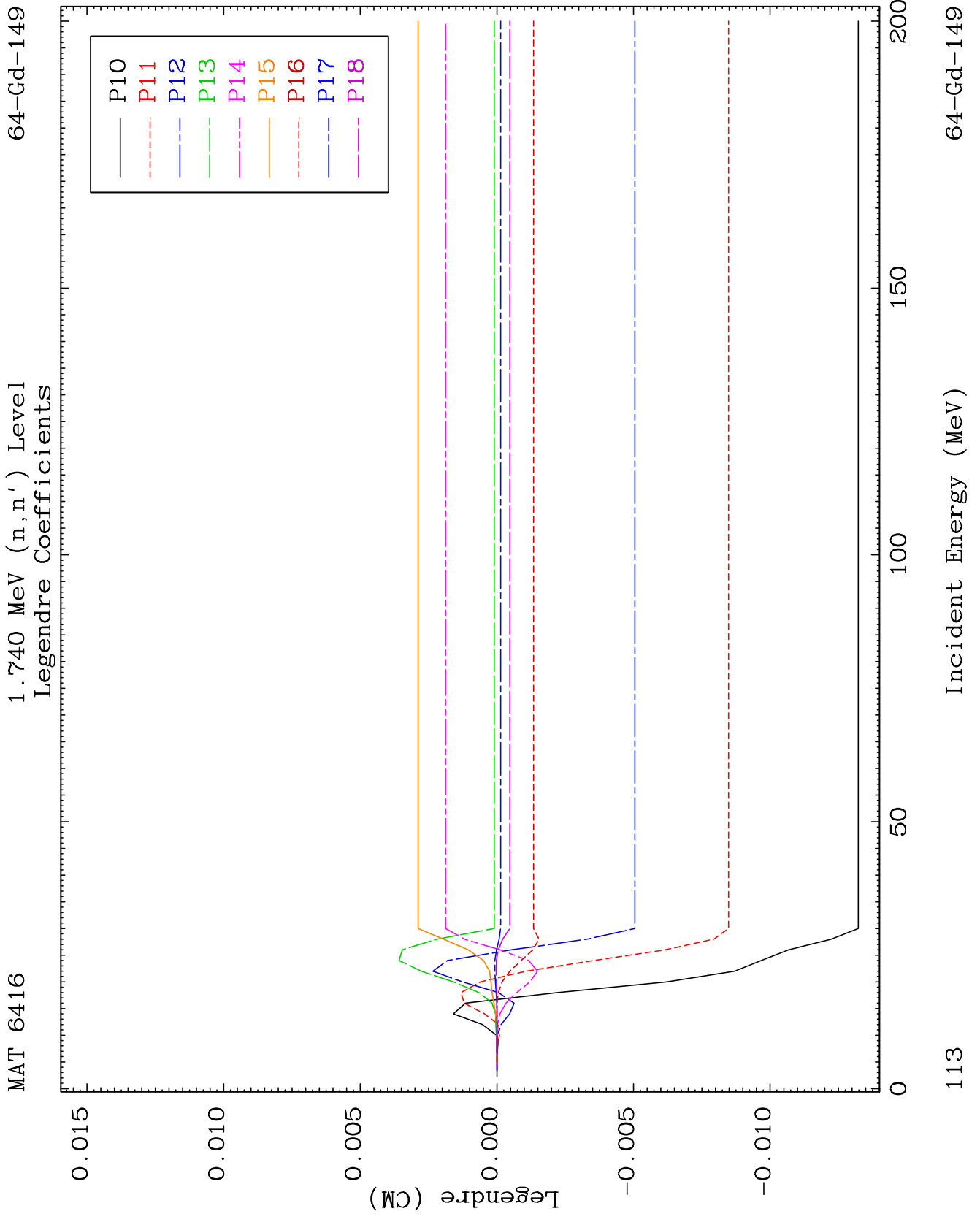
Incident Energy (MeV)

64-Gd-149





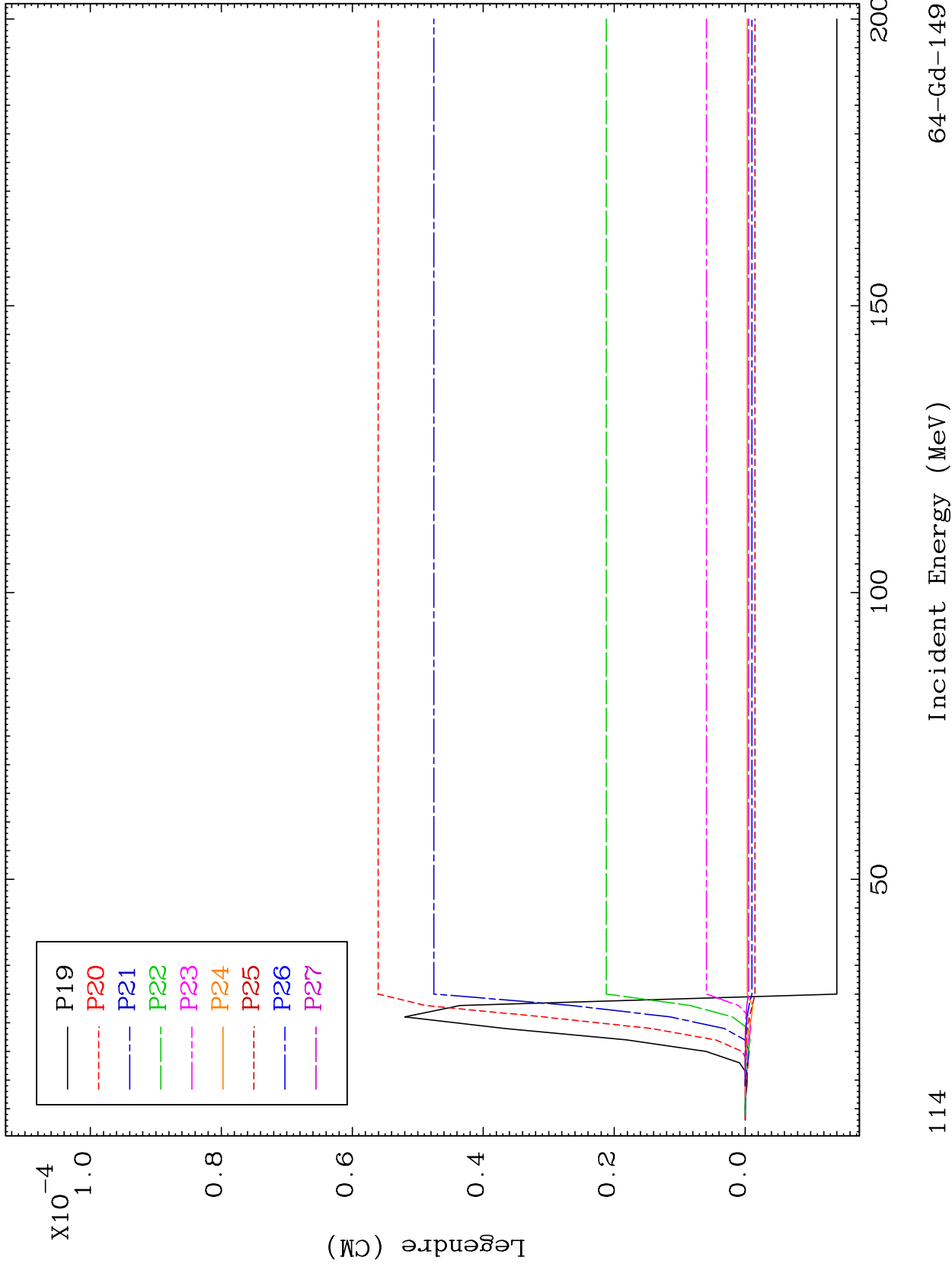




MAT 6416

1.740 MeV (n,n') Level  
Legendre Coefficients

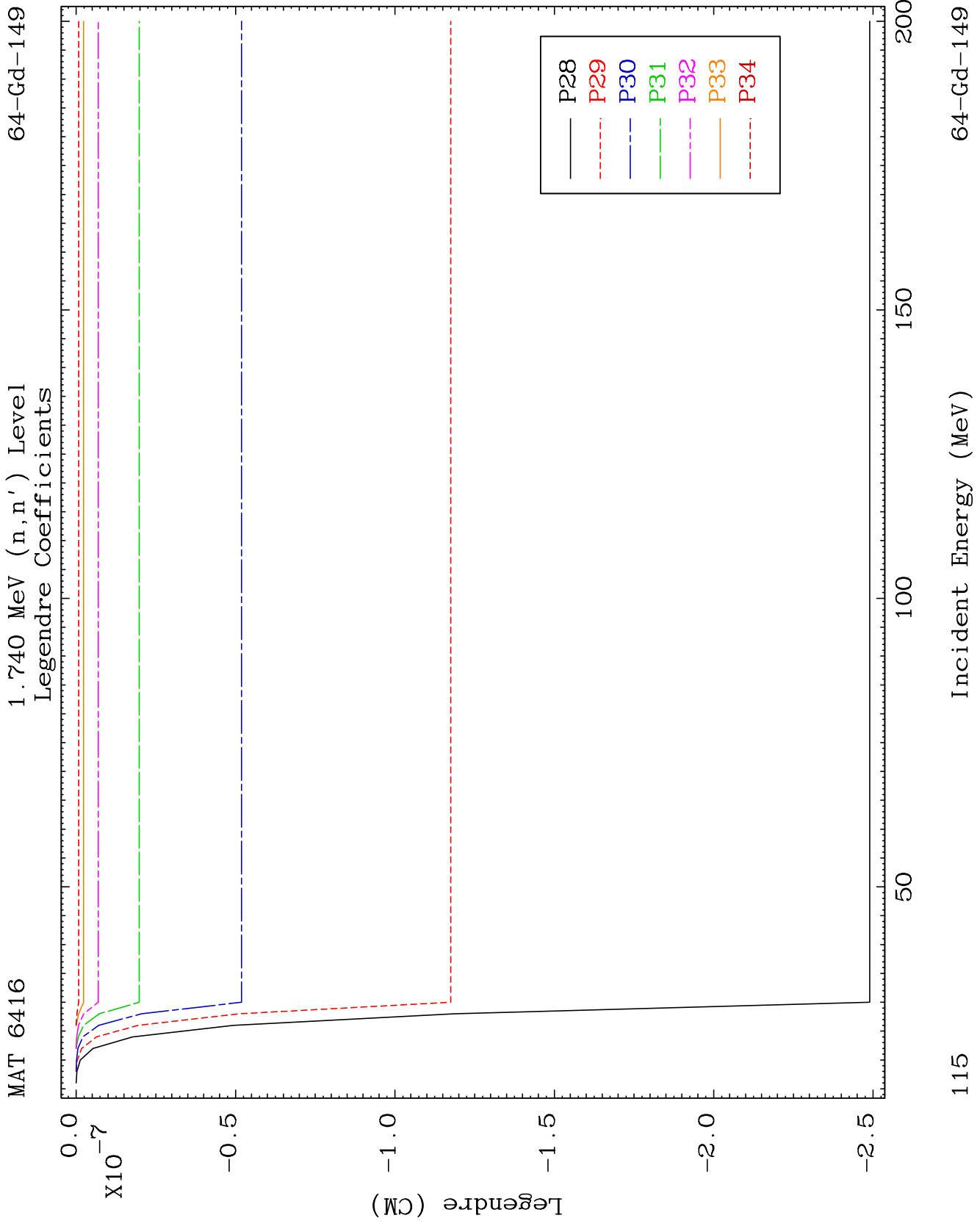
64-Gd-149

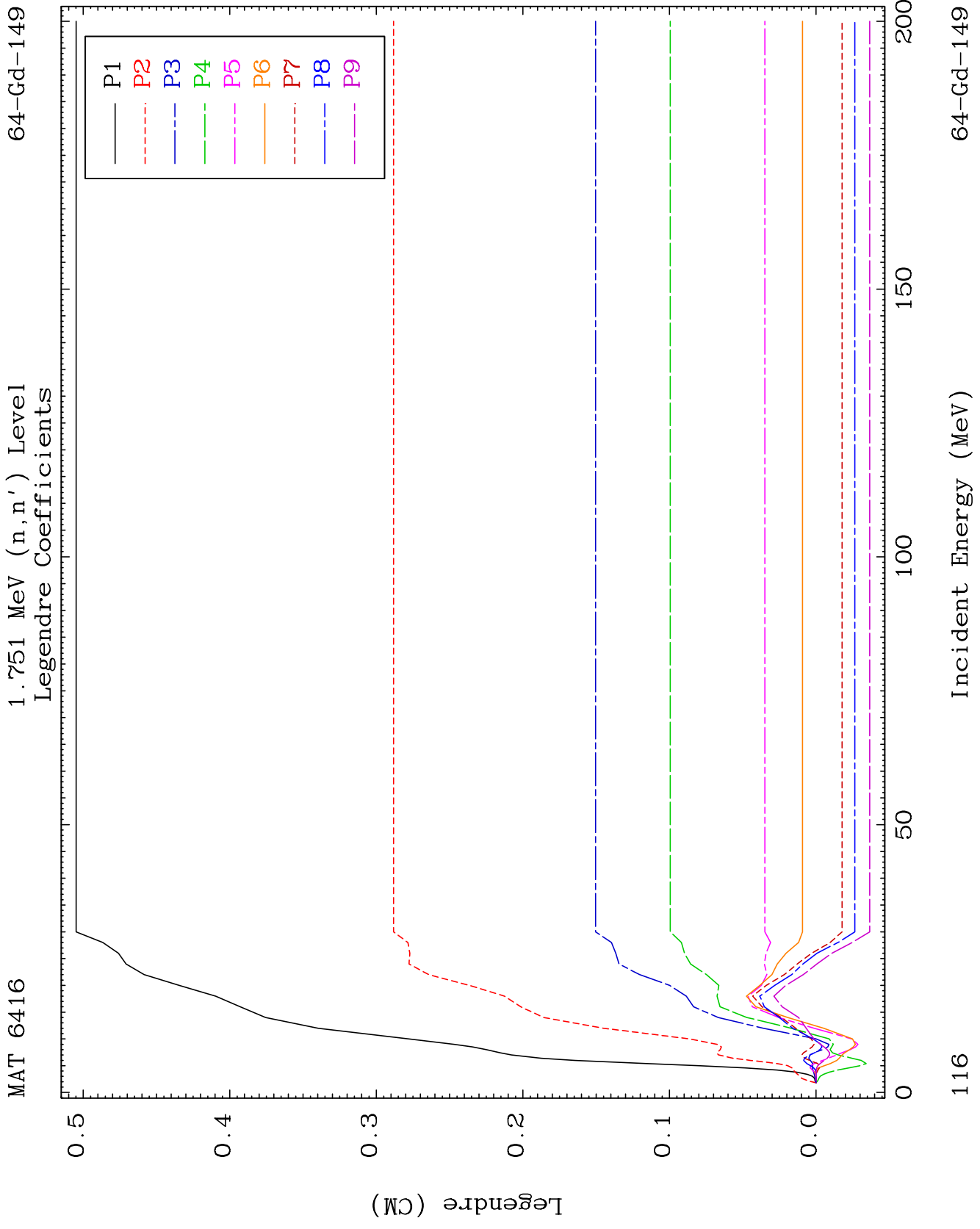


114

Incident Energy (MeV)

64-Gd-149



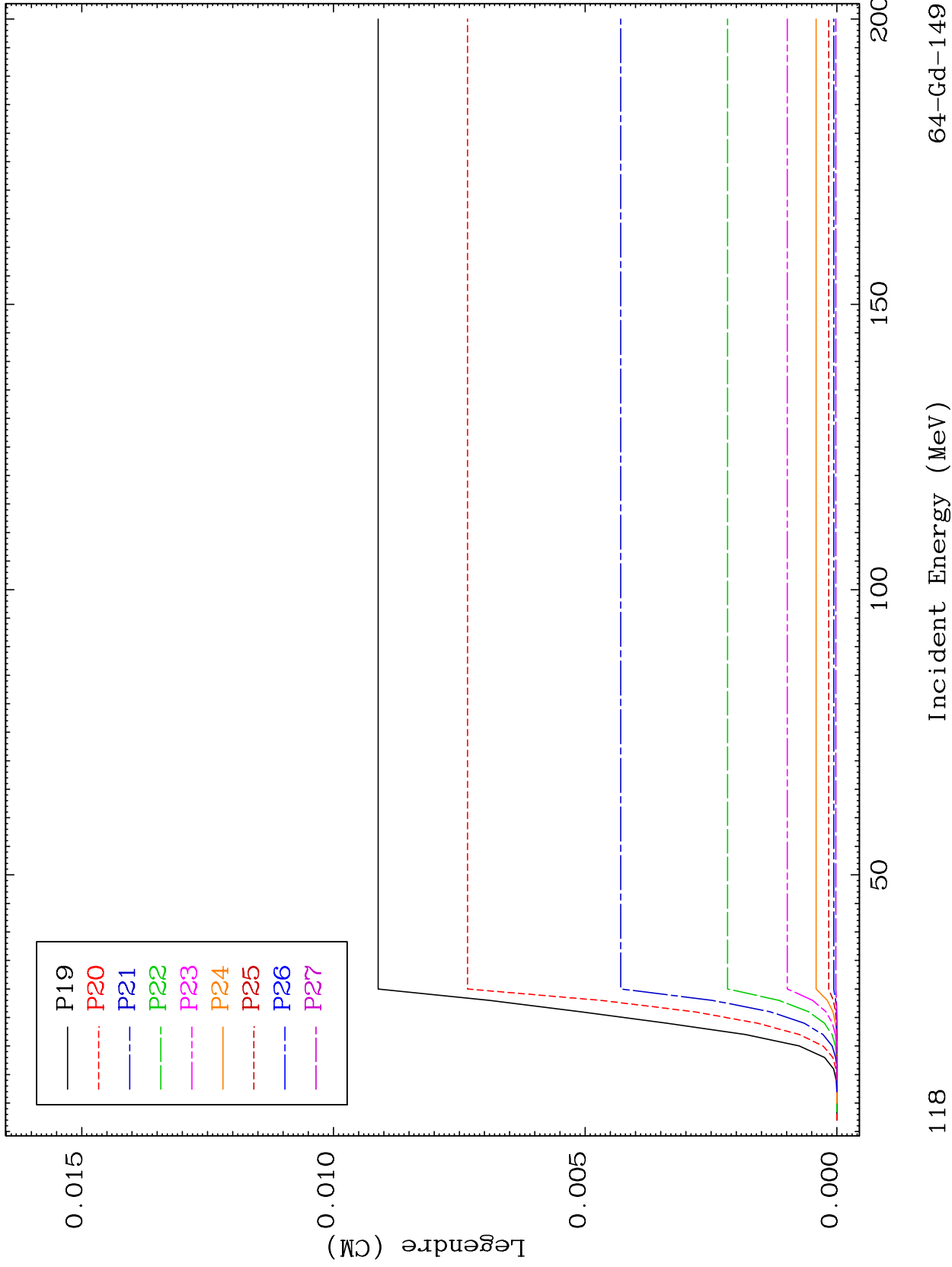




MAT 6416

1.751 MeV (n, n') Level  
Legendre Coefficients

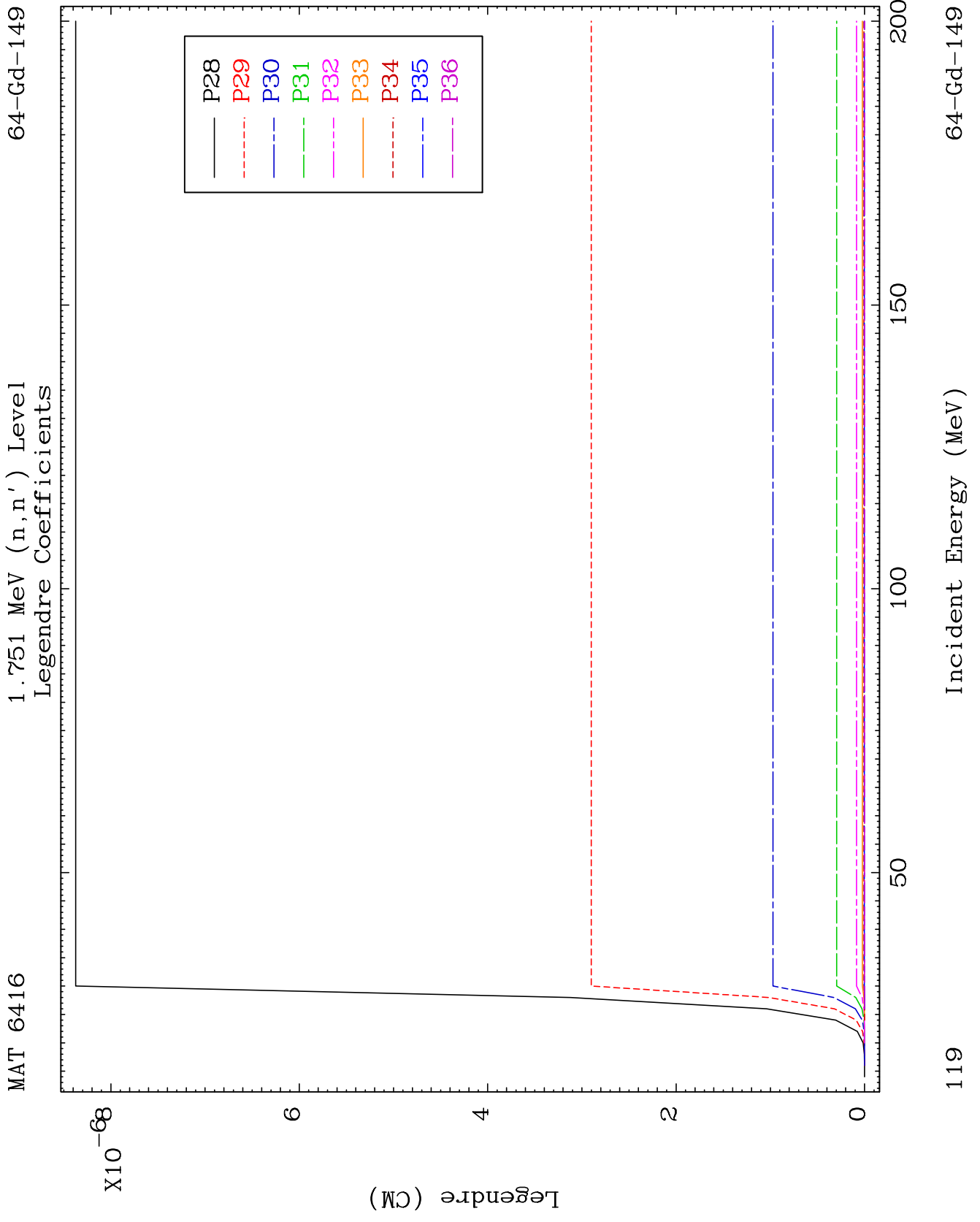
64-Gd-149



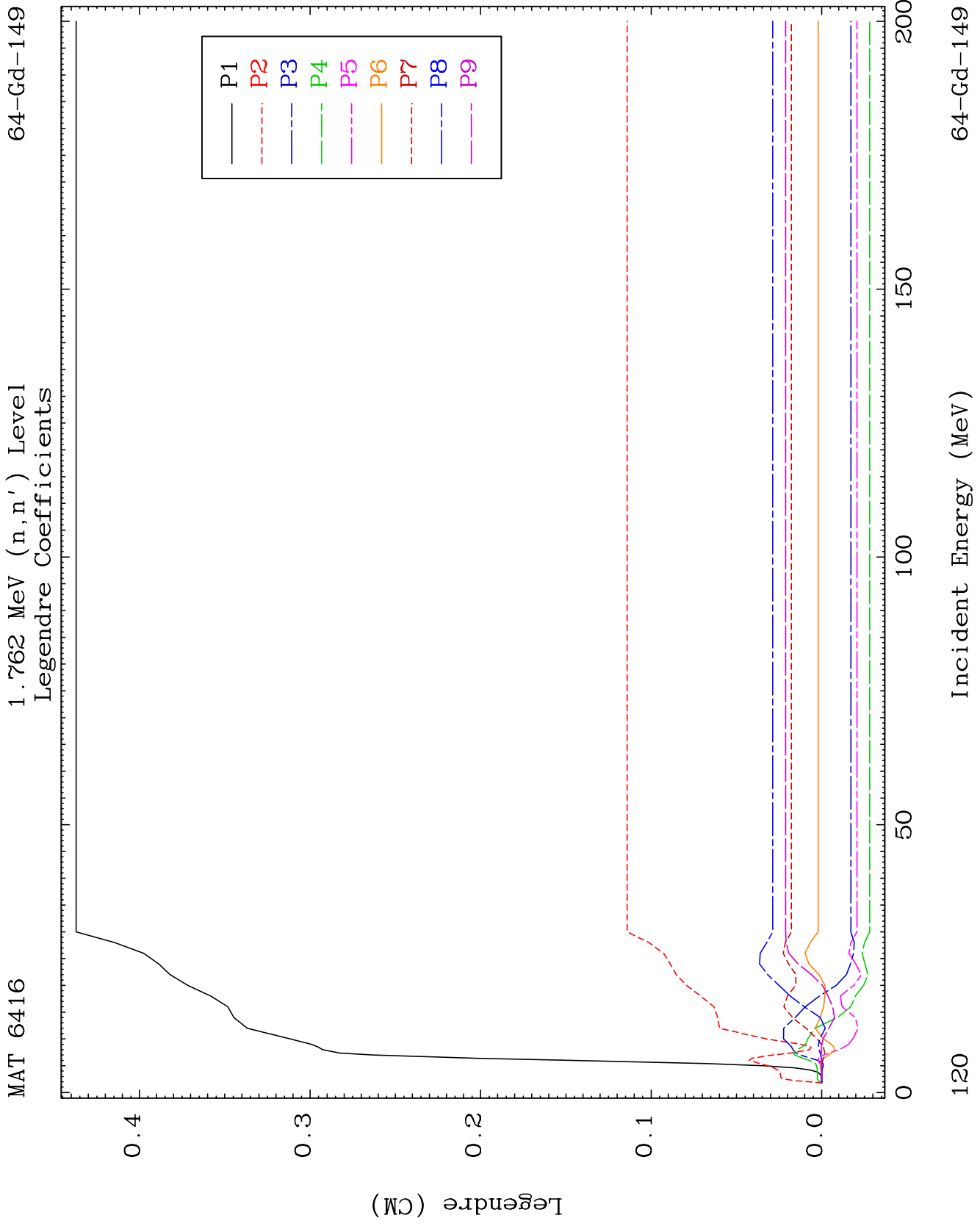
118

Incident Energy (MeV)

64-Gd-149



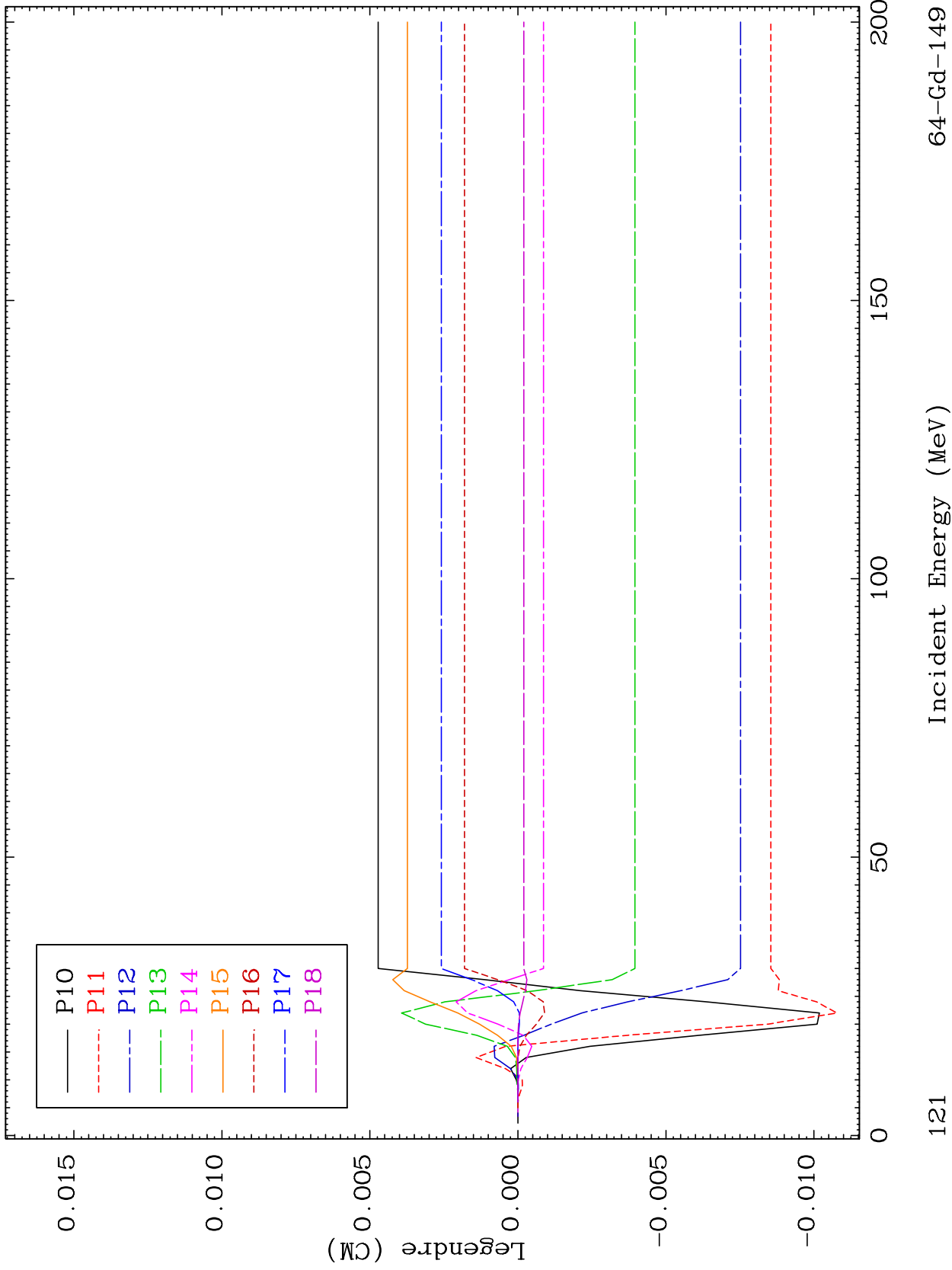




MAT 6416

1.762 MeV (n,n') Level  
Legendre Coefficients

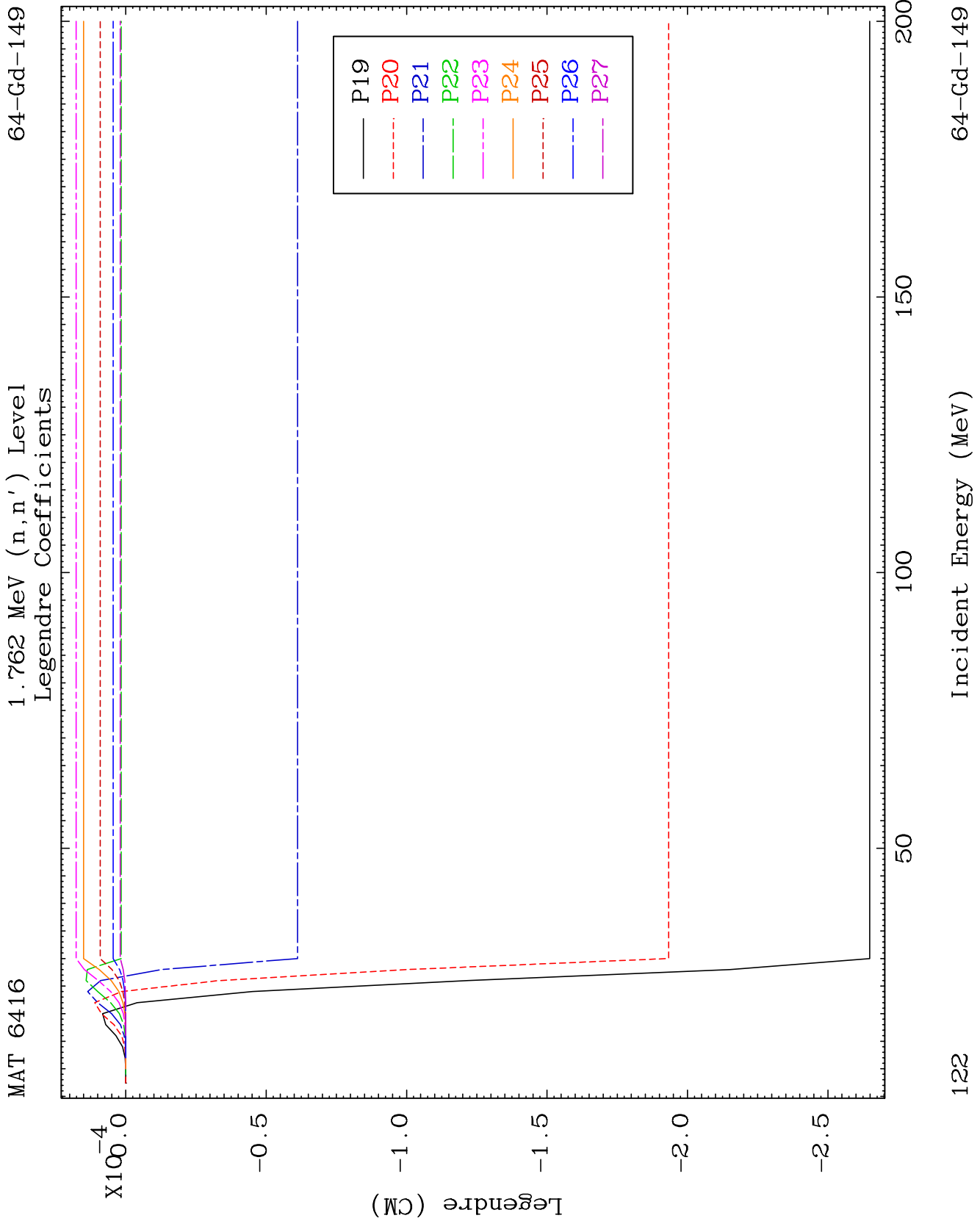
64-Gd-149



121

Incident Energy (MeV)

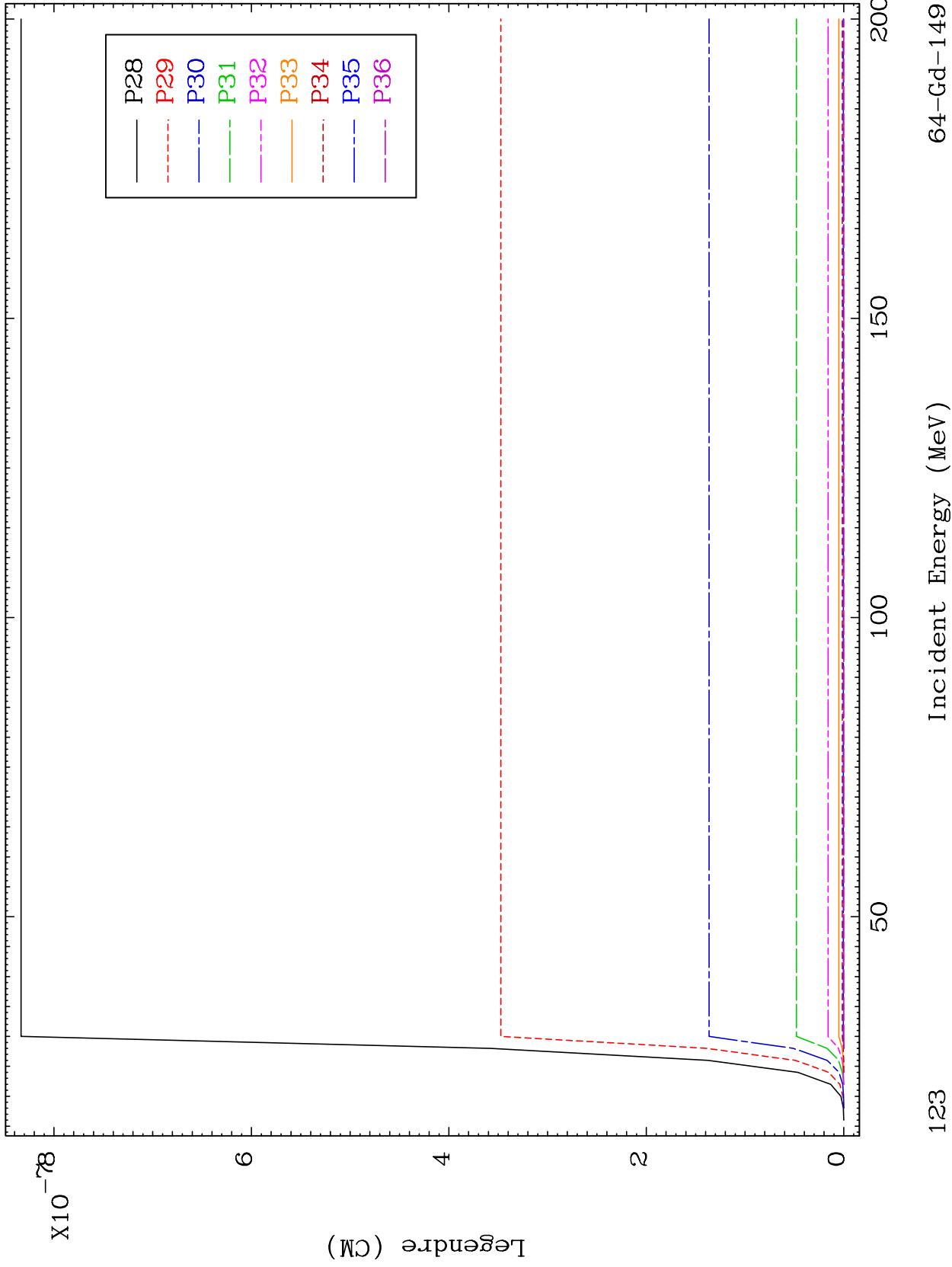
64-Gd-149



MAT 6416

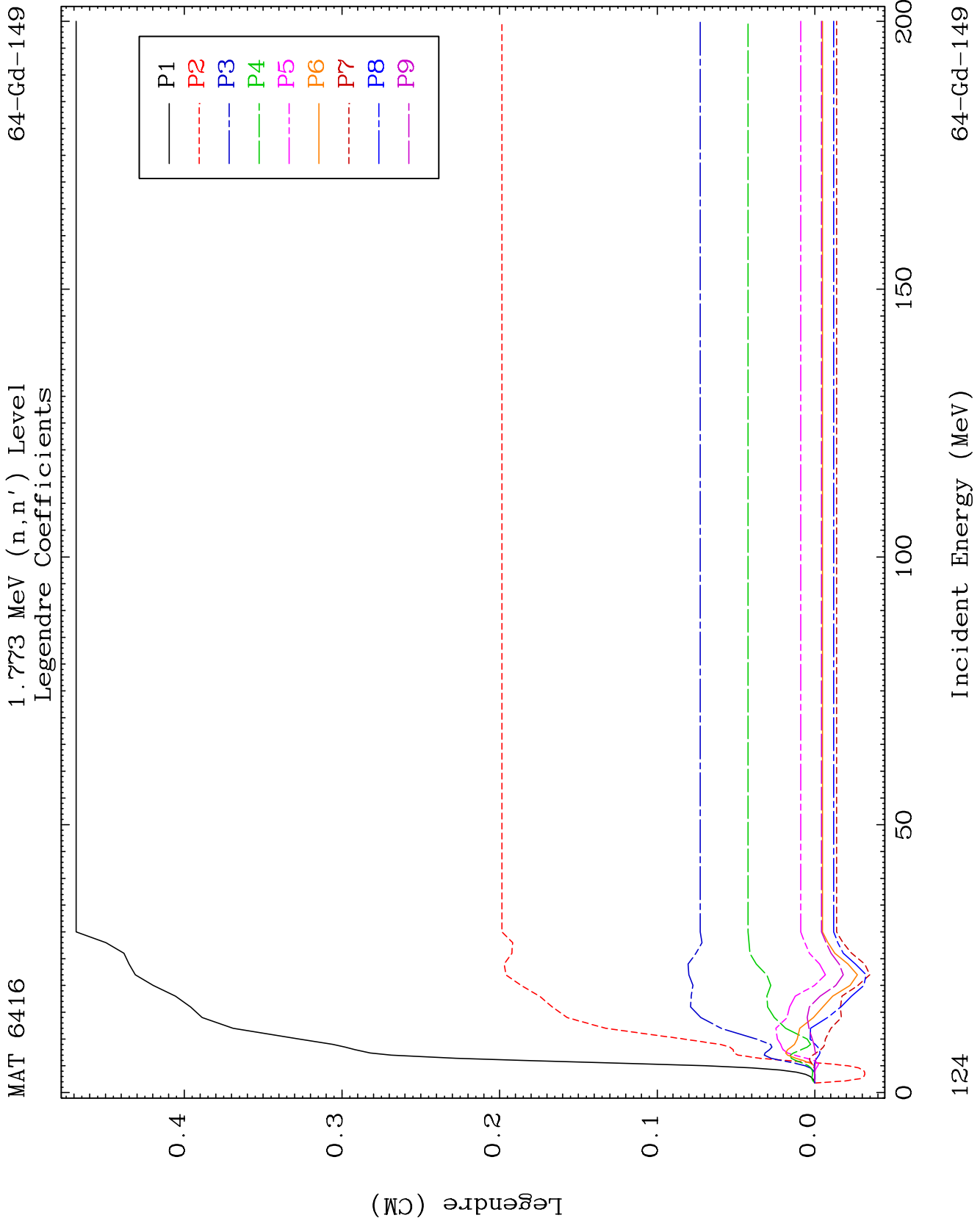
1.762 MeV (n,n') Level  
Legendre Coefficients

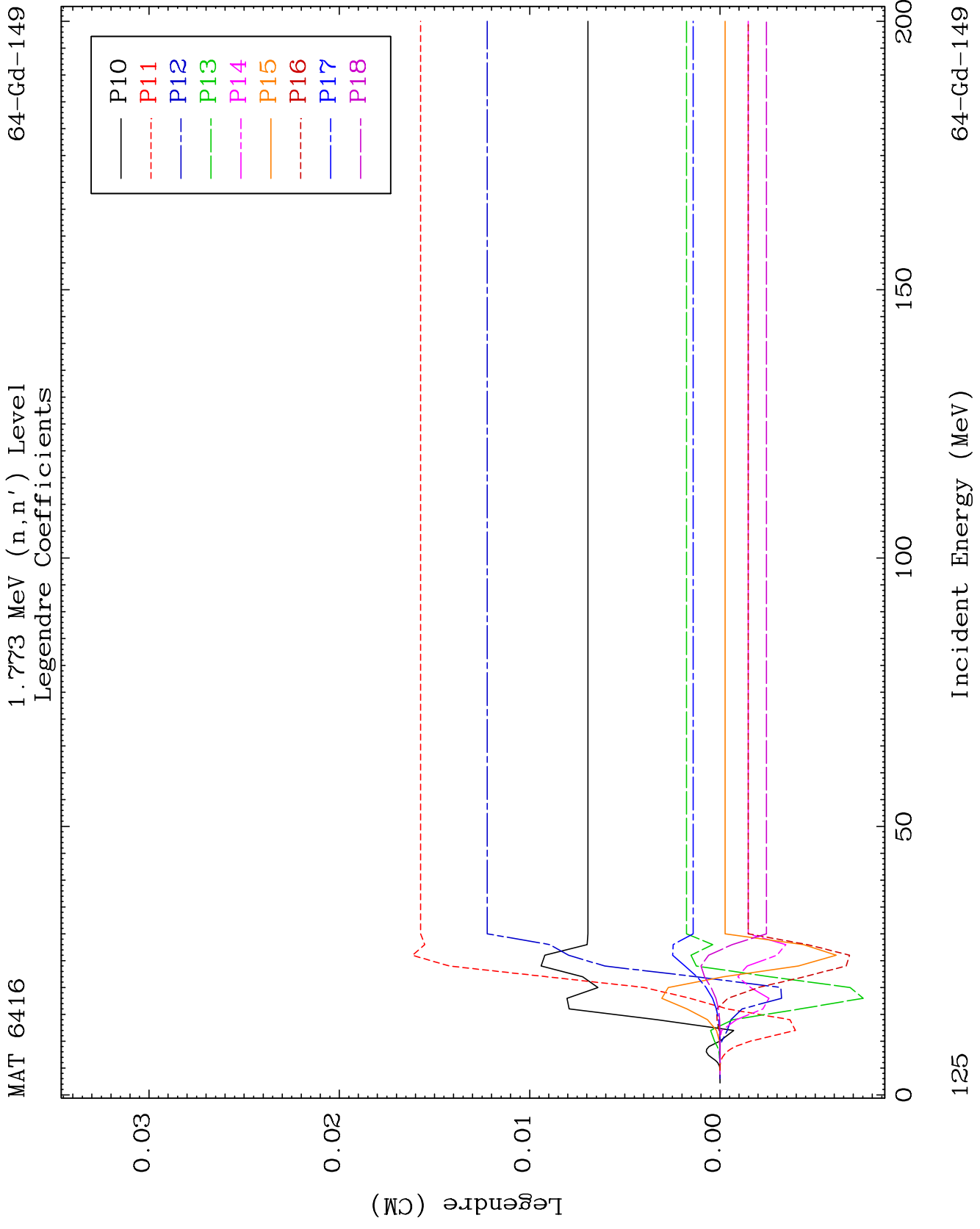
64-Gd-149



123

64-Gd-149

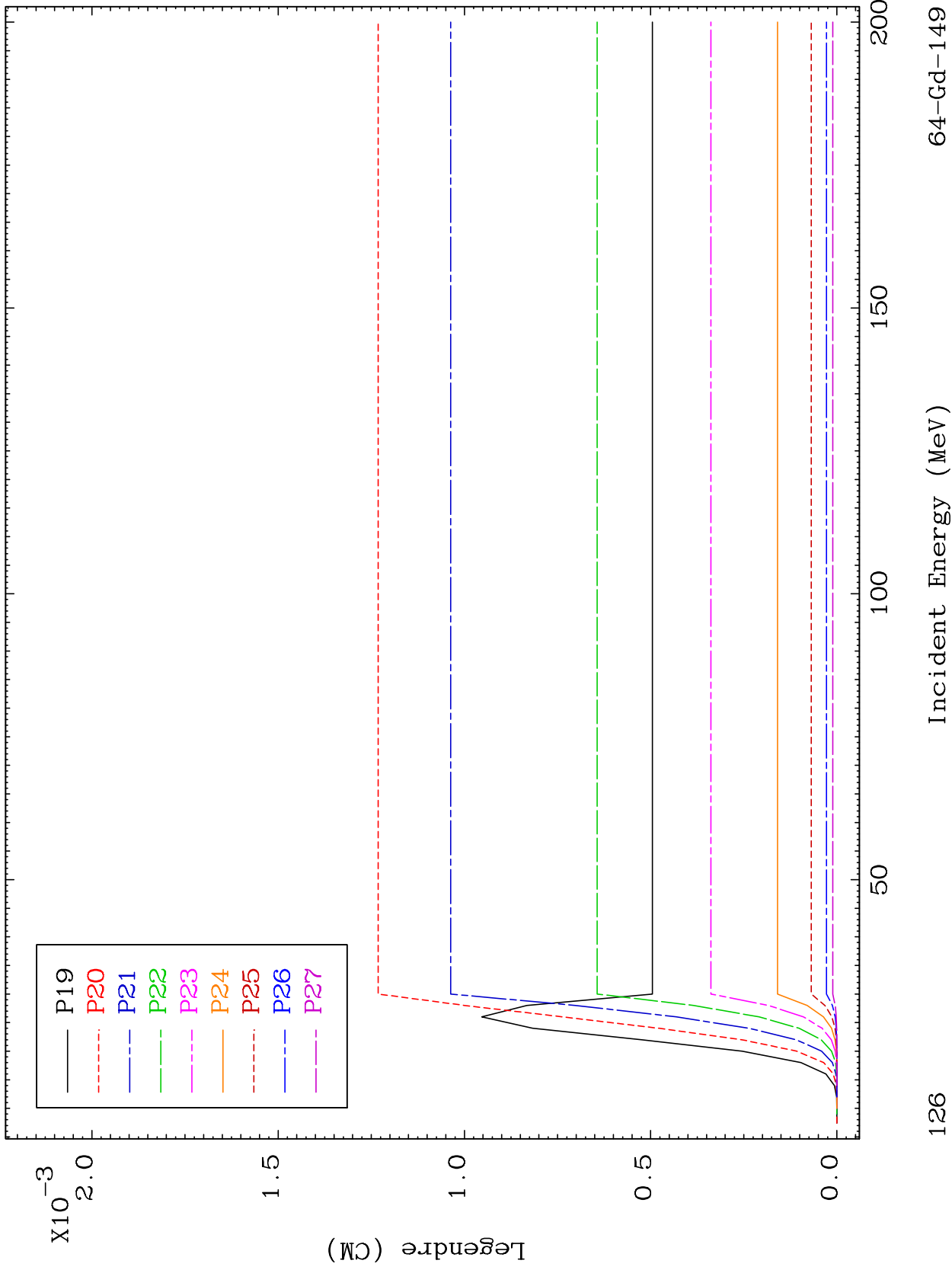




MAT 6416

1.773 MeV (n,n') Level  
Legendre Coefficients

64-Gd-149



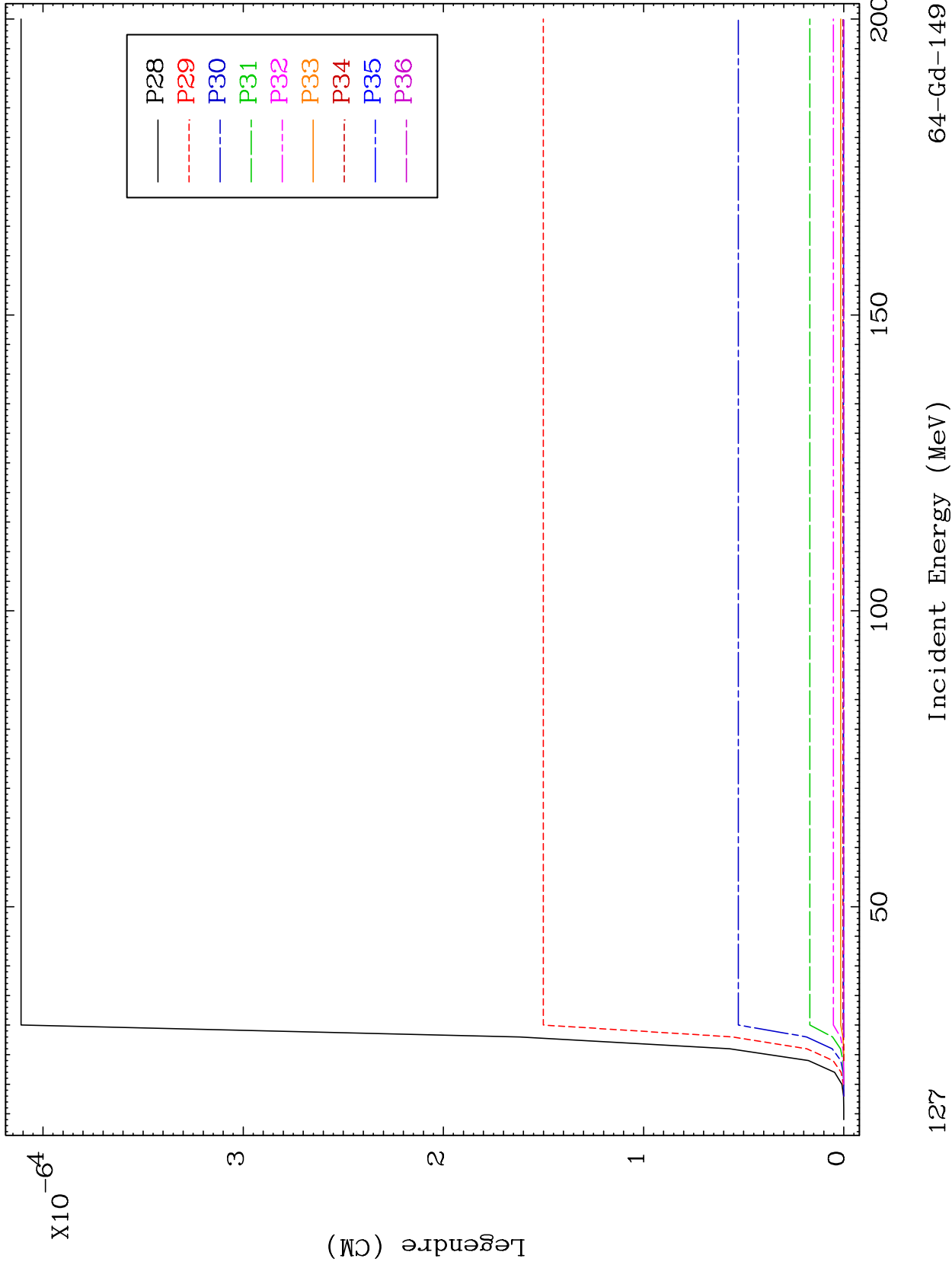
126

64-Gd-149

MAT 6416

1.773 MeV (n,n') Level  
Legendre Coefficients

64-Gd-149

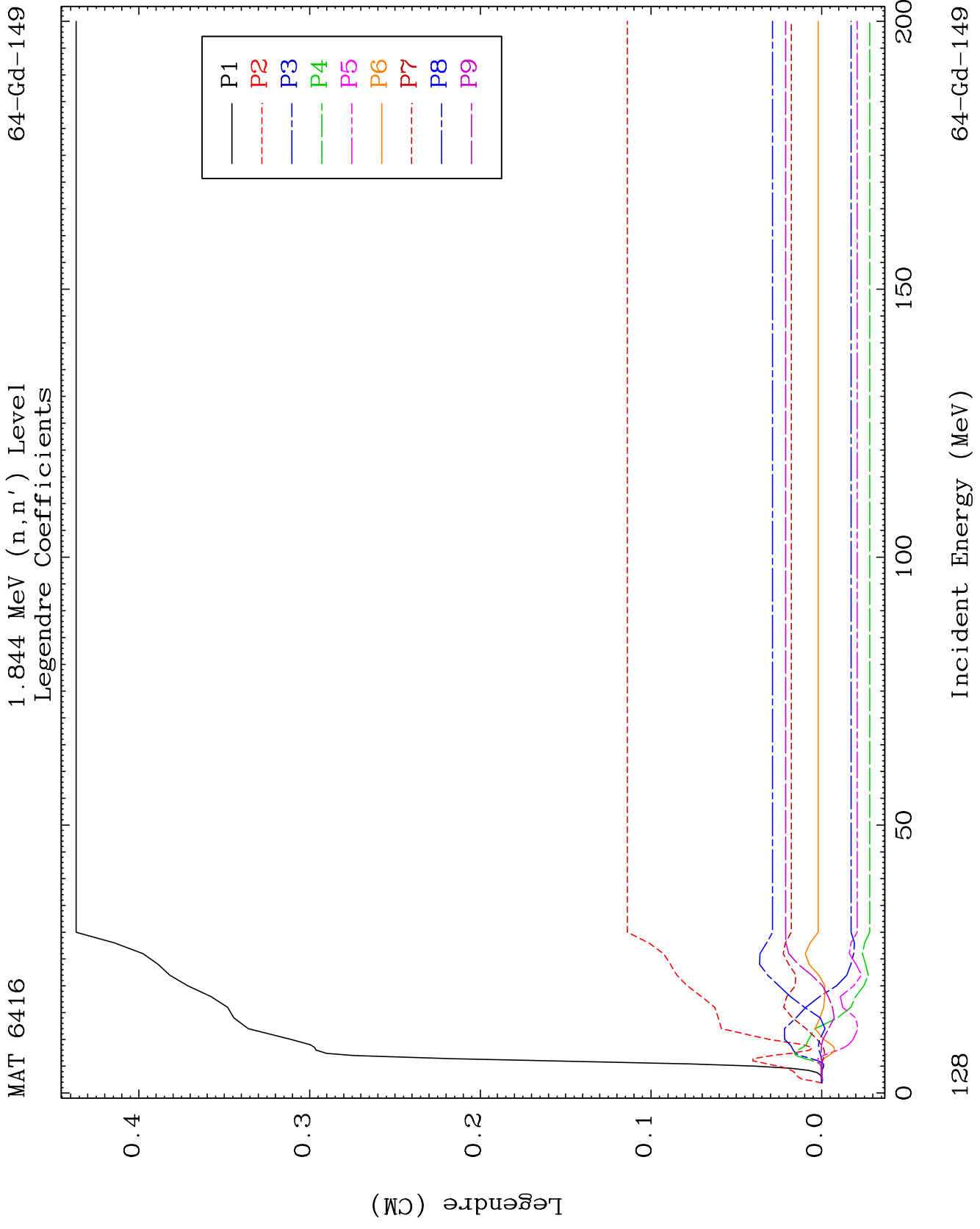


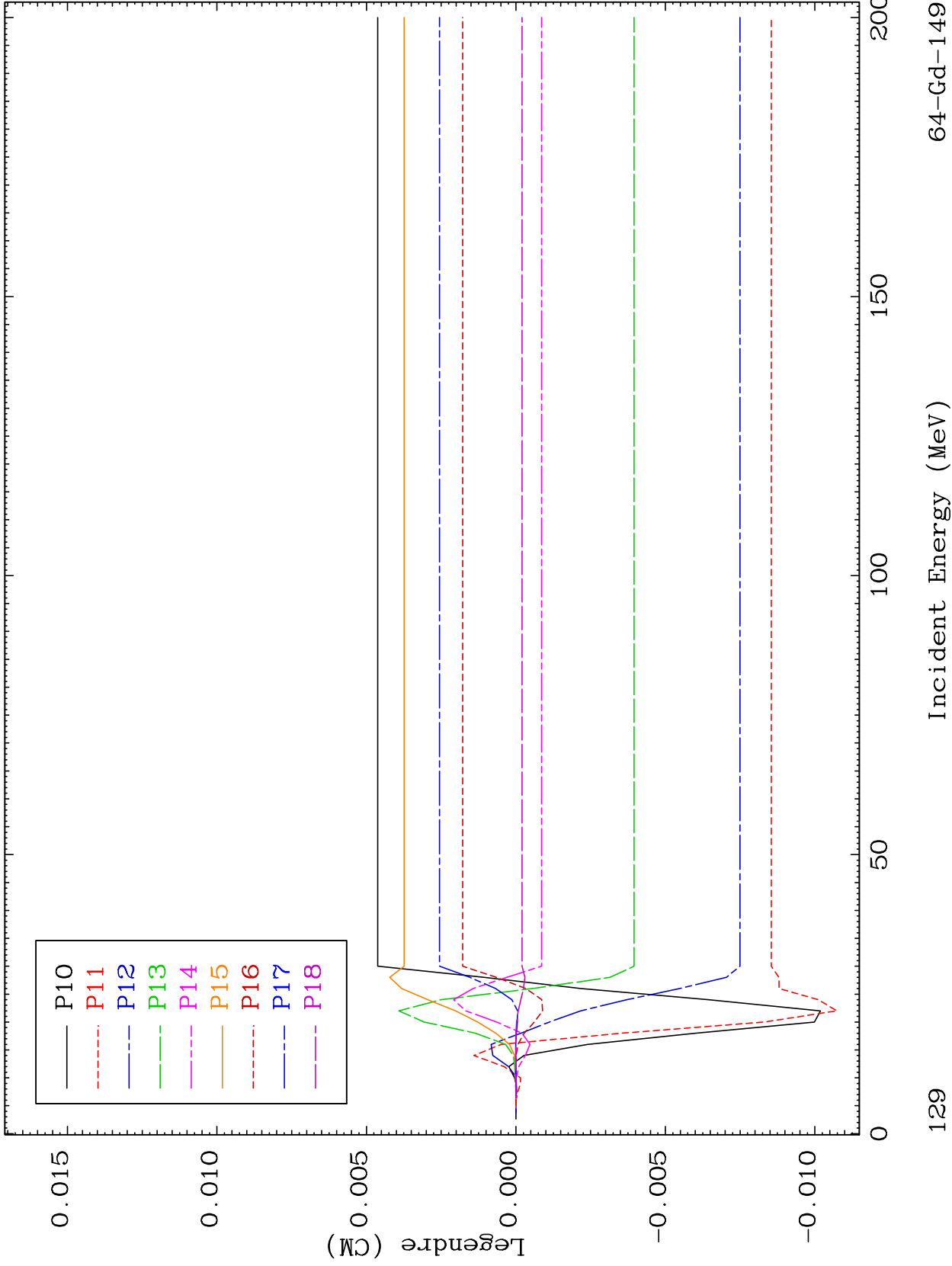
127

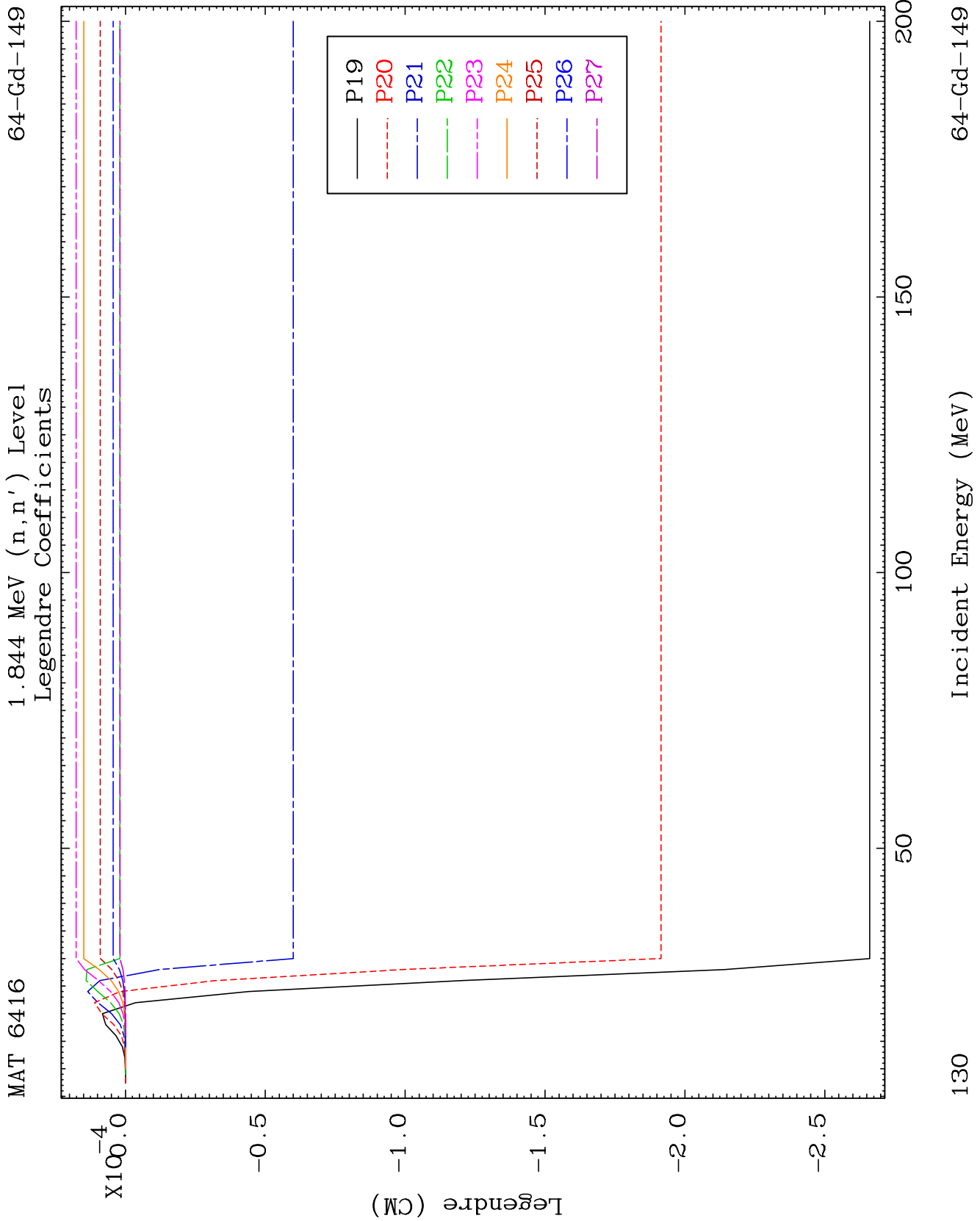
Incident Energy (MeV)

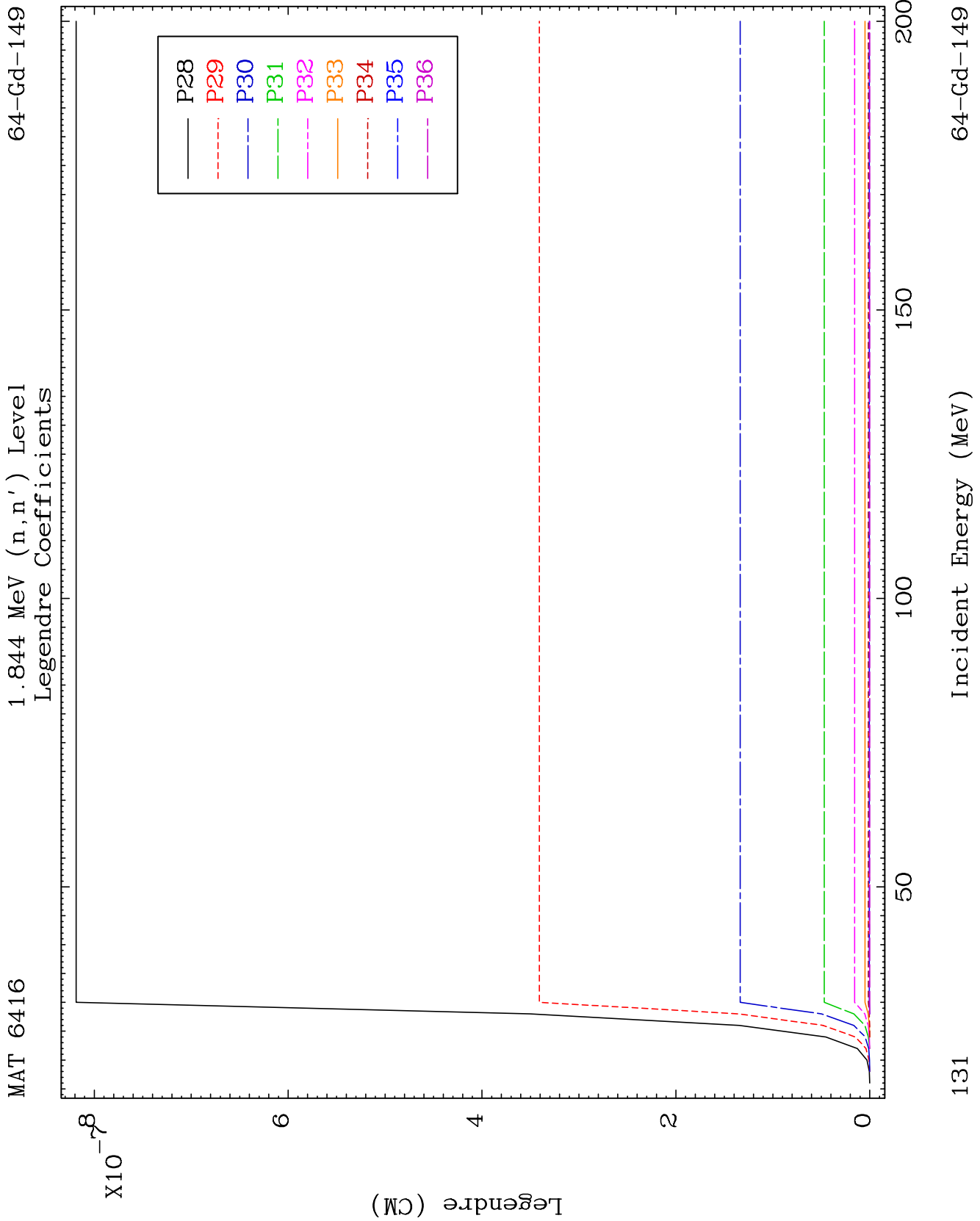
64-Gd-149

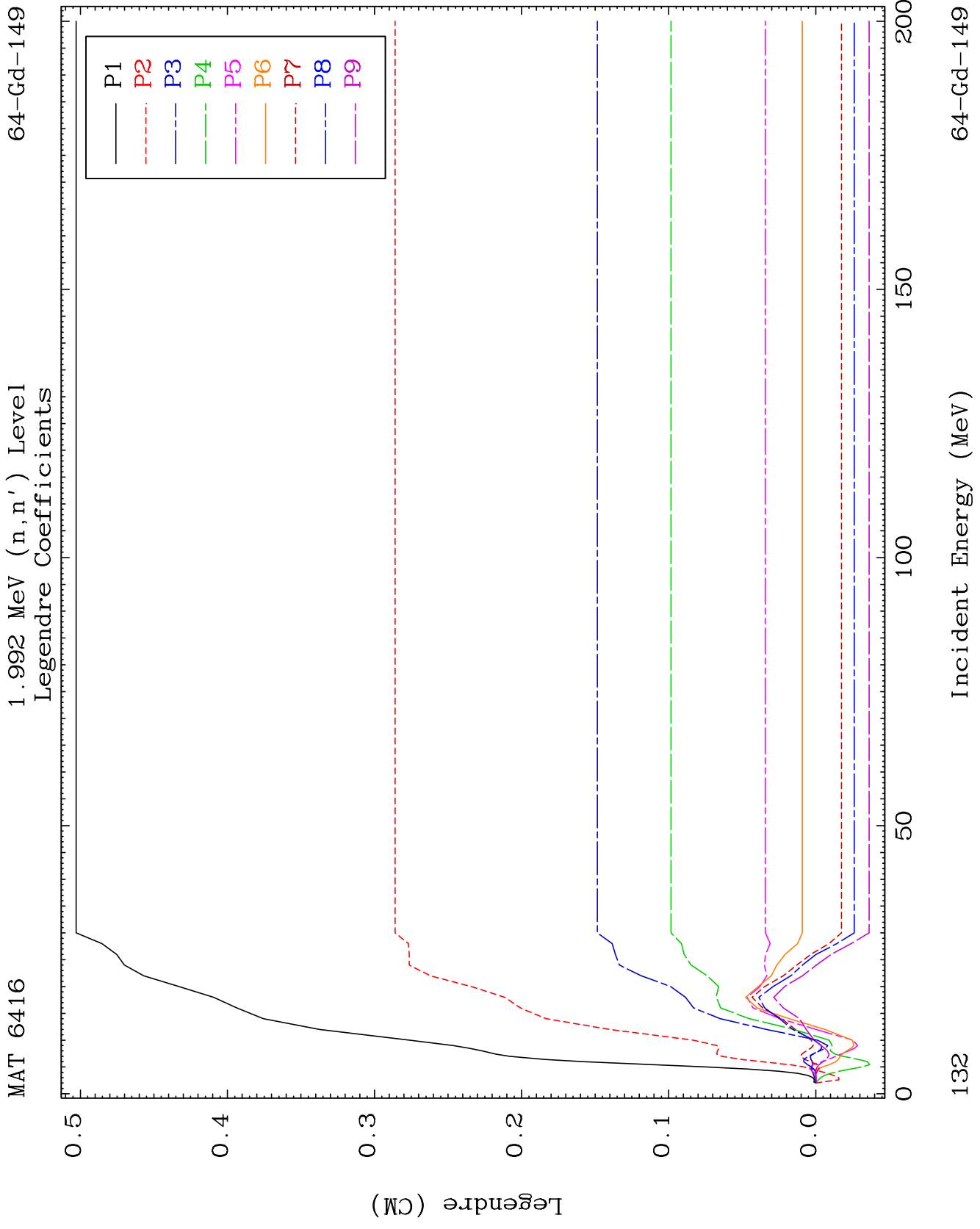








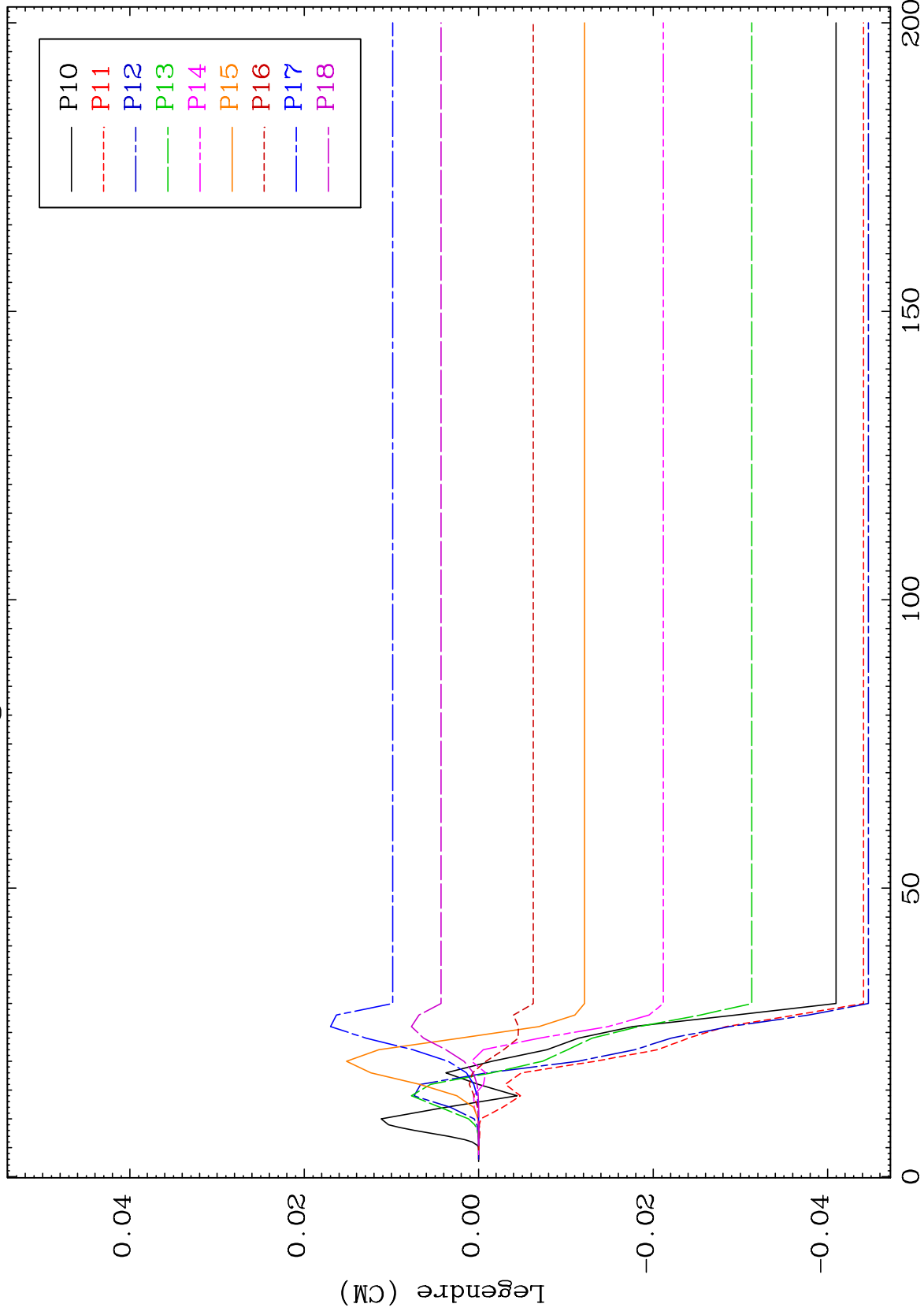




MAT 6416

1.992 MeV (n,n') Level  
Legendre Coefficients

64-Gd-149



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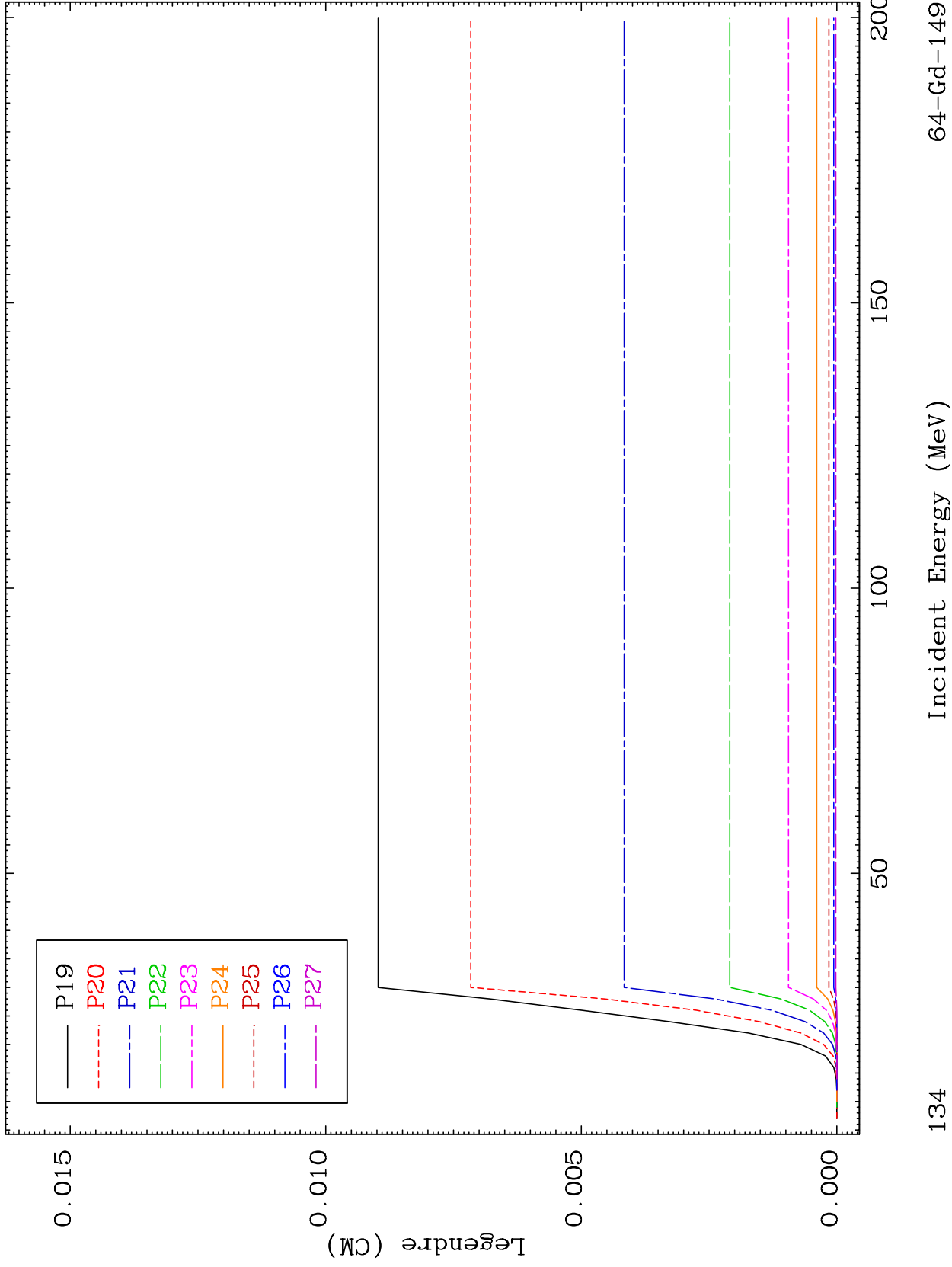
Incident Energy (MeV)

64-Gd-149

MAT 6416

1.992 MeV (n,n') Level  
Legendre Coefficients

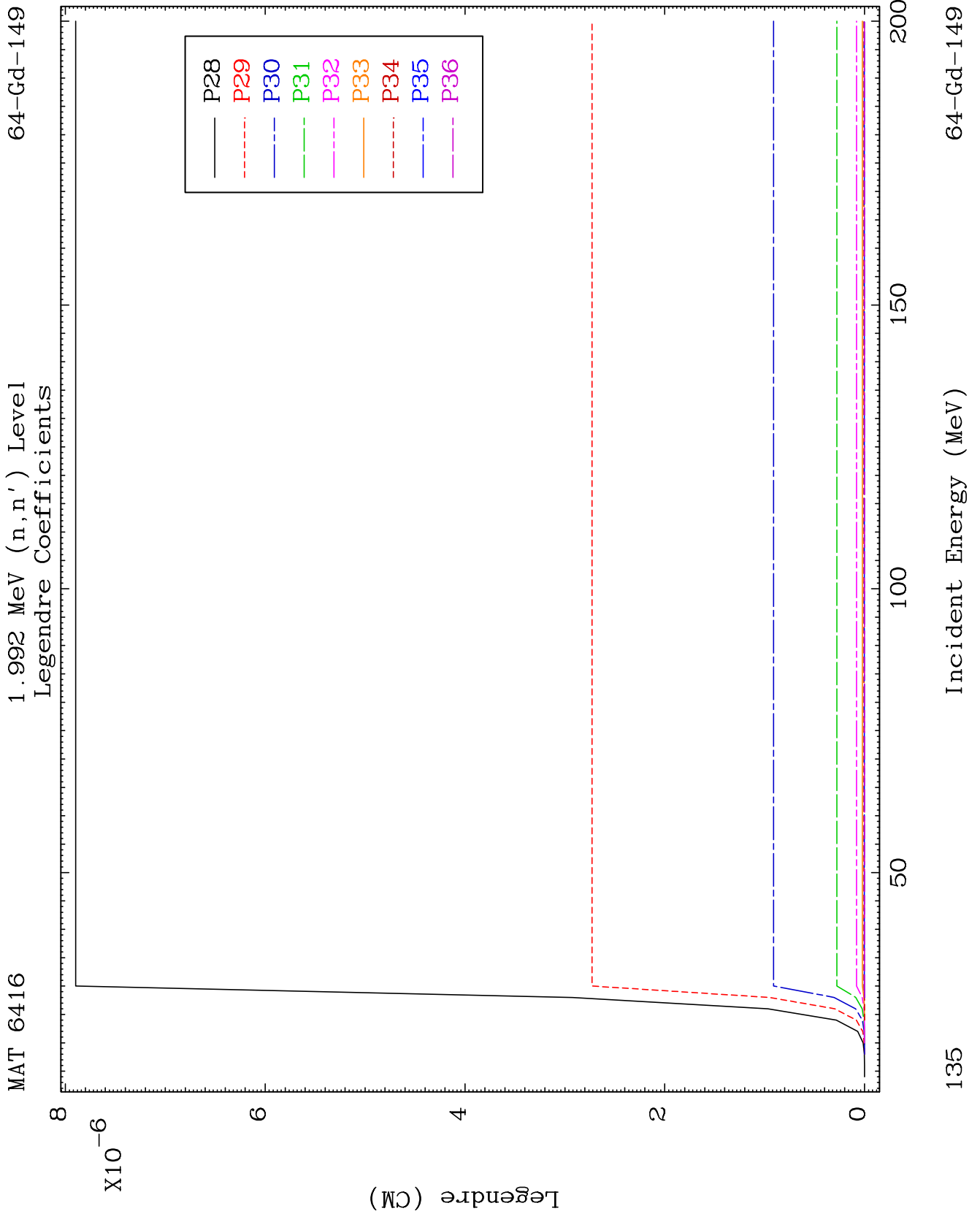
64-Gd-149



134

Incident Energy (MeV)

64-Gd-149



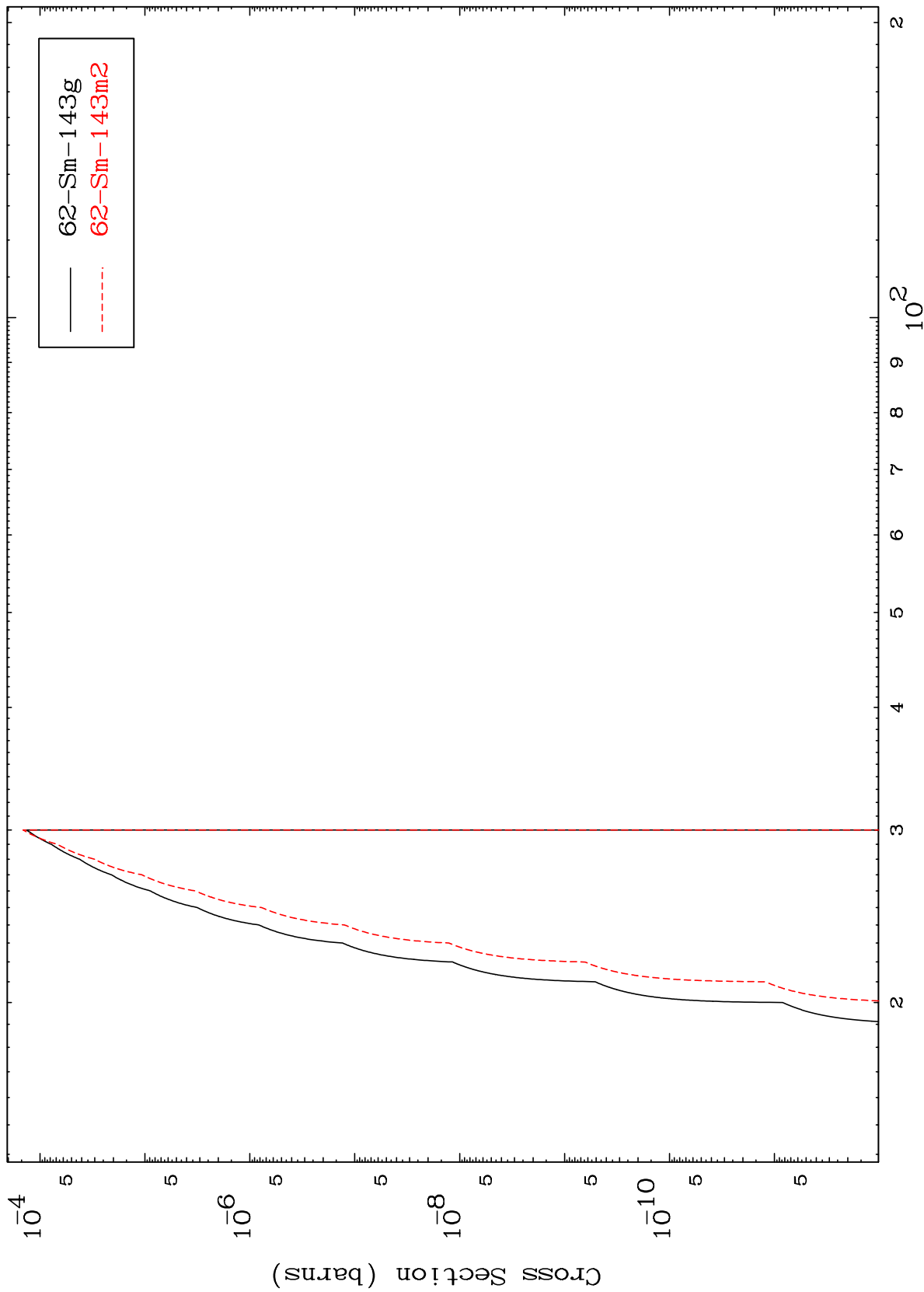


MAT 6416

(n,3n)  $\alpha$

64-Gd-149

Radionuclide Production Cross Section



136

Incident Energy (MeV)

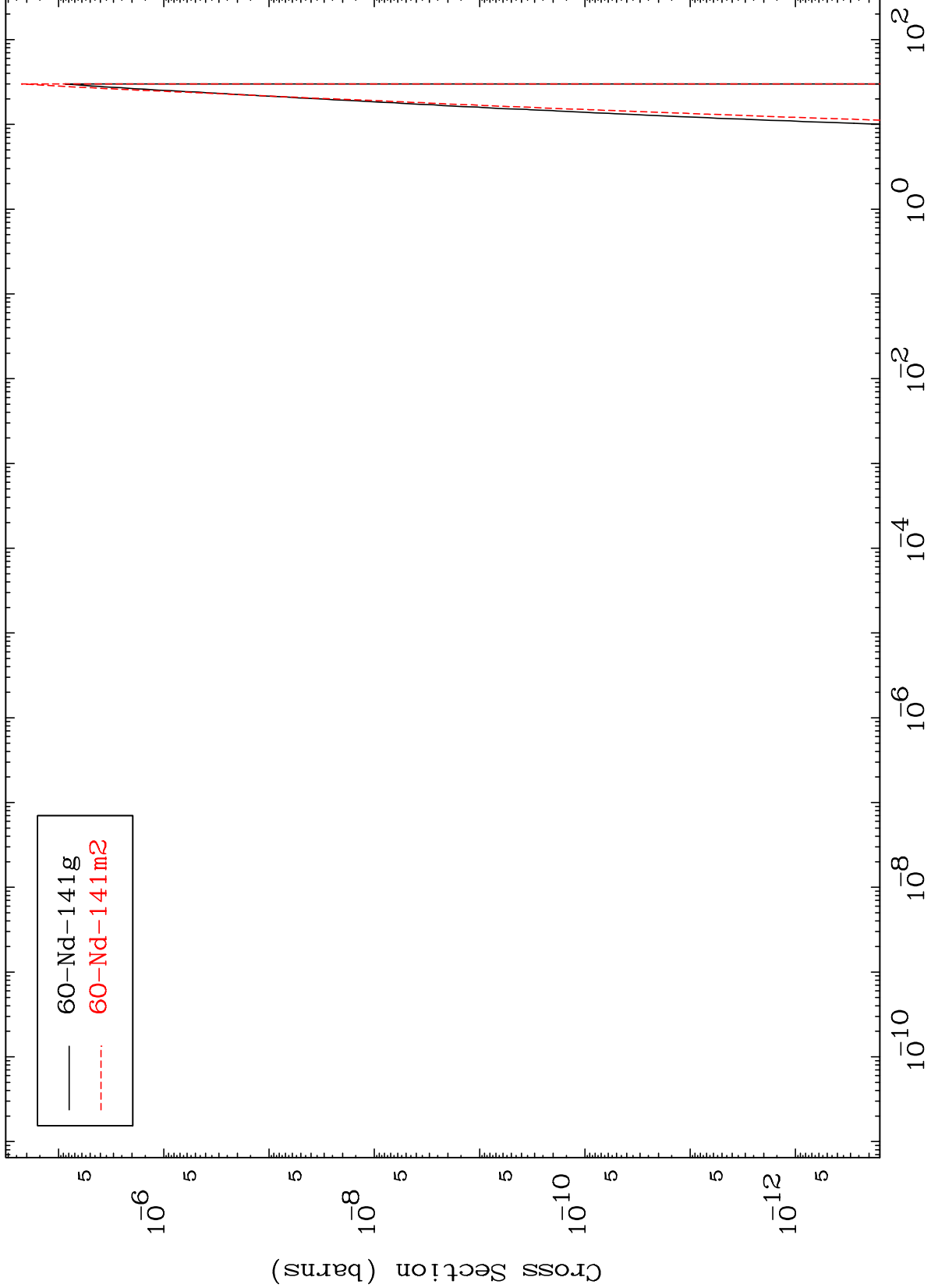
64-Gd-149

MAT 6416

(n,n') 2α

64-Gd-149

Radionuclide Production Cross Section



60-Nd-141 g  
60-Nd-141 m2