

Program EVALPLOT  
(Version 2015-2)

by

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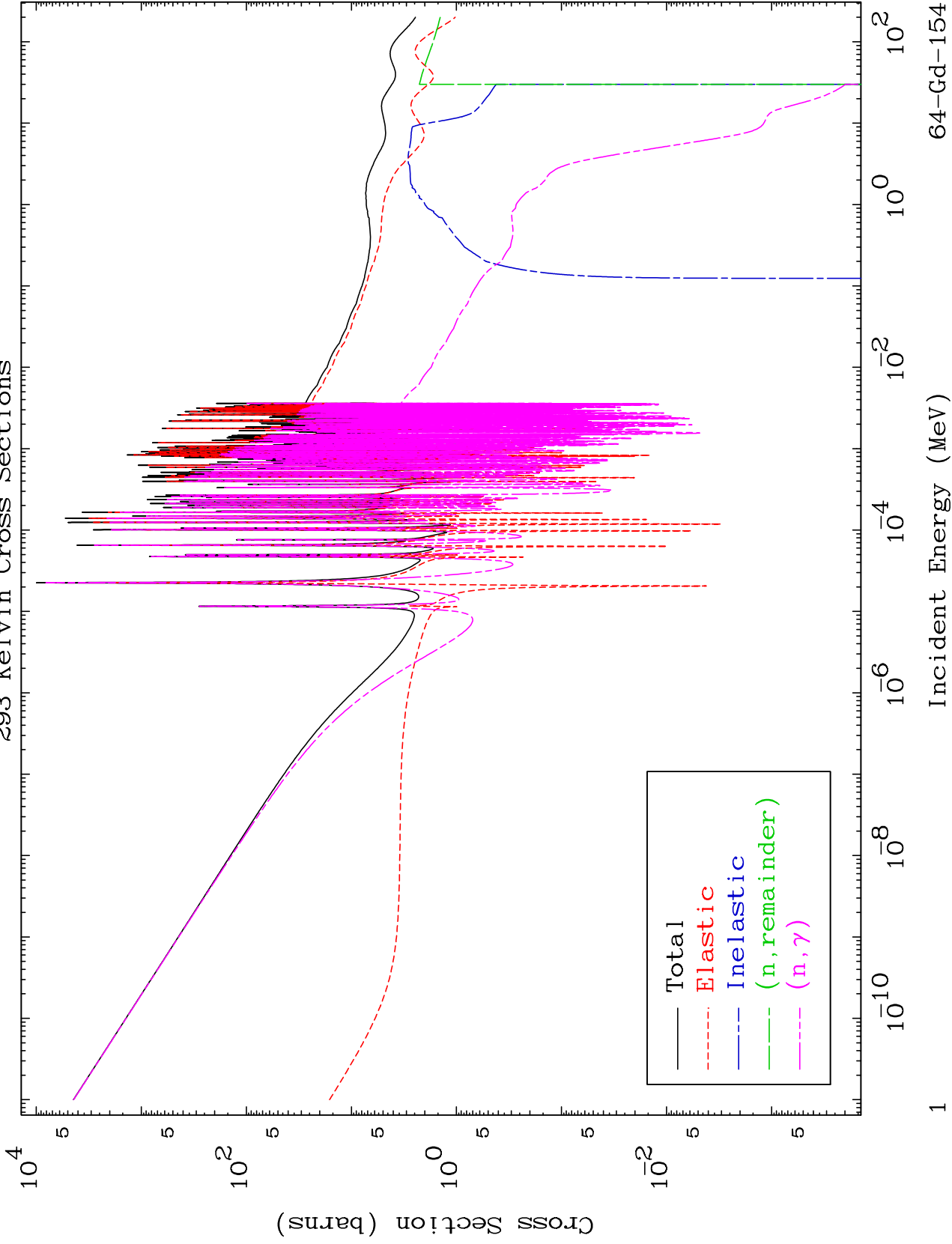
Press Mouse Button to Start

MAT 6431

Major

293 Kelvin Cross Sections

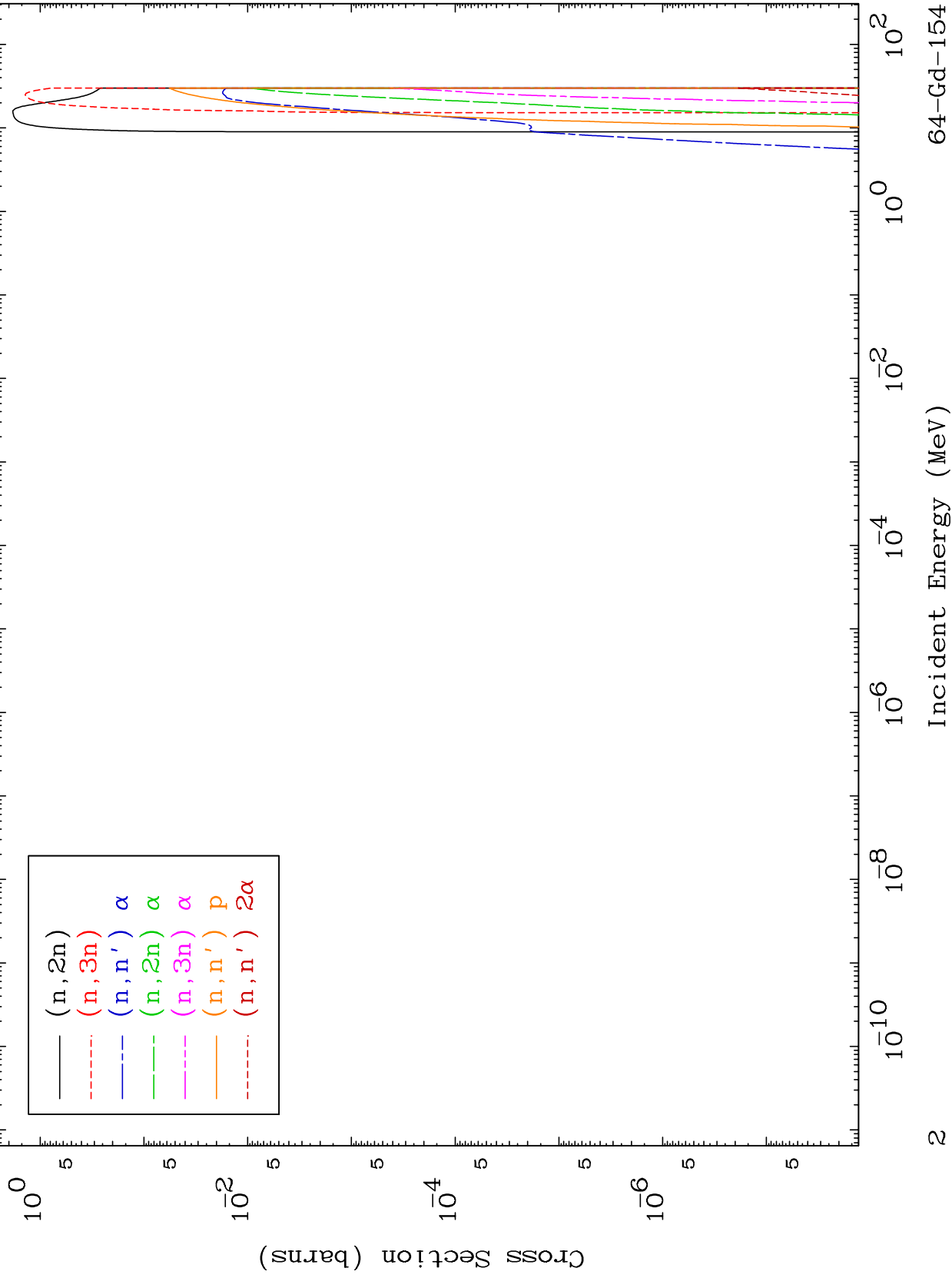
64-Gd-154

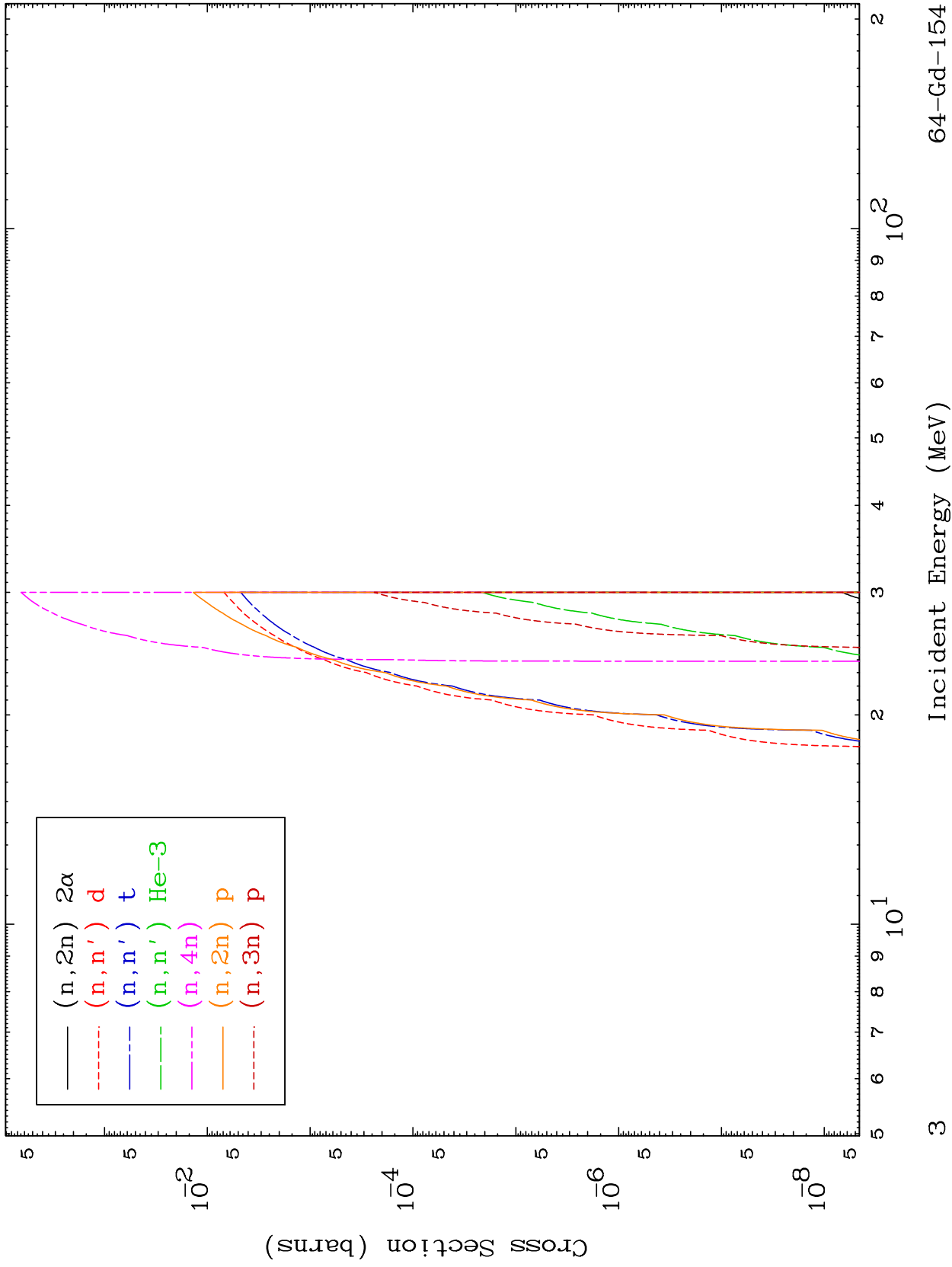


MAT 6431

Neutron Production  
293 Kelvin Cross Sections

64-Gd-154

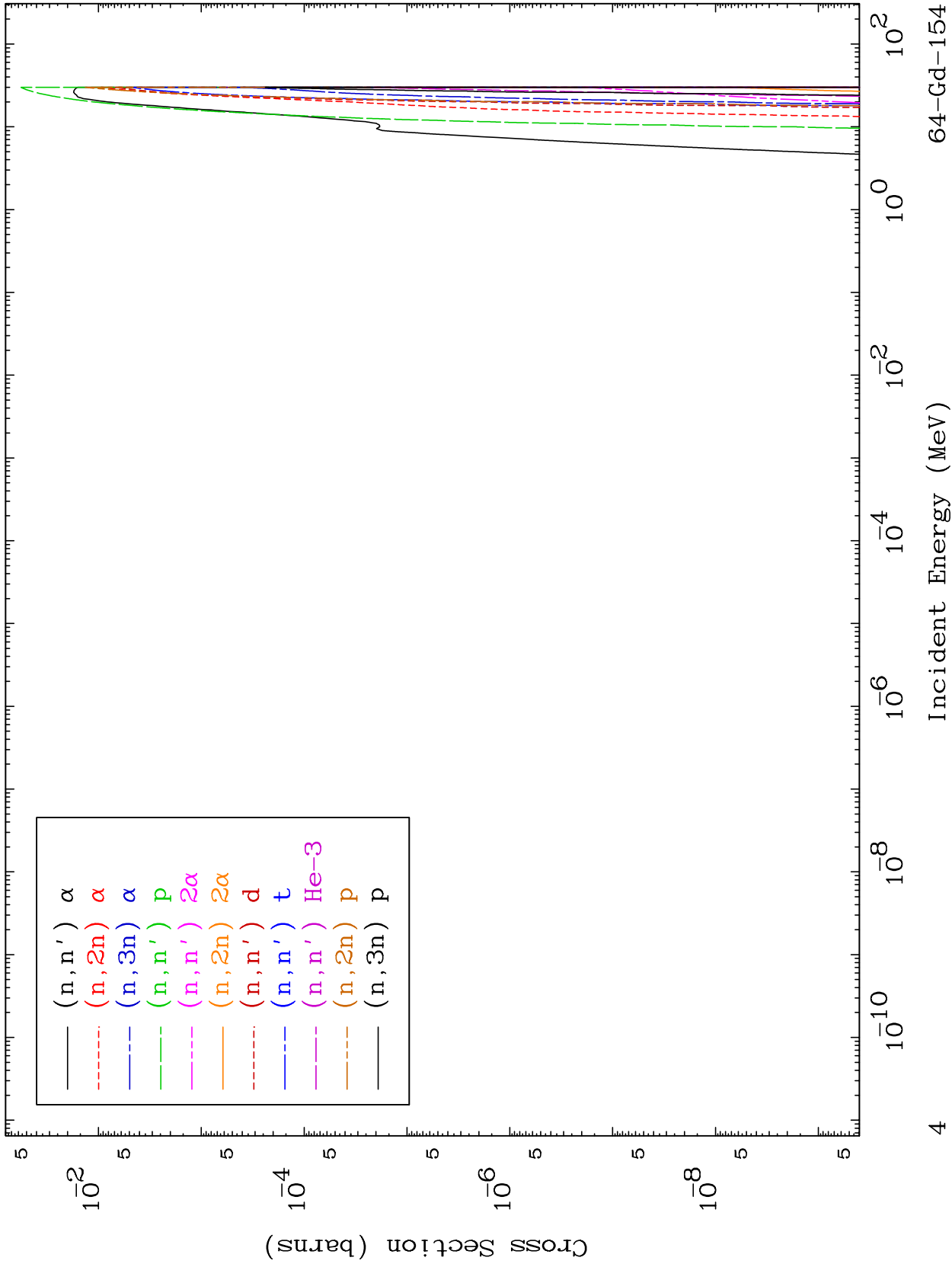




MAT 6431

Charged Particle  
293 Kelvin Cross Sections

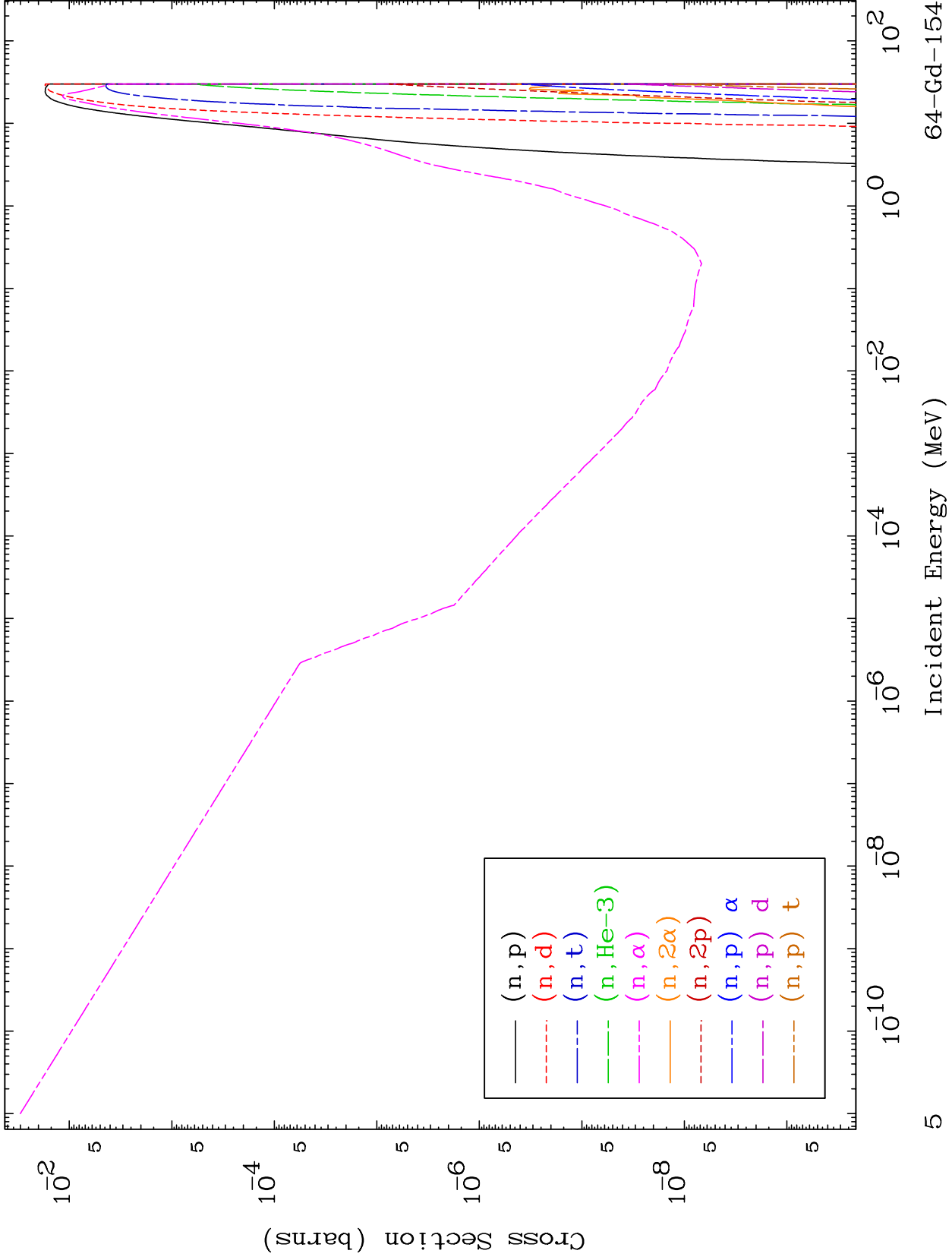
64-Gd-154



MAT 6431

Charged Particle  
293 Kelvin Cross Sections

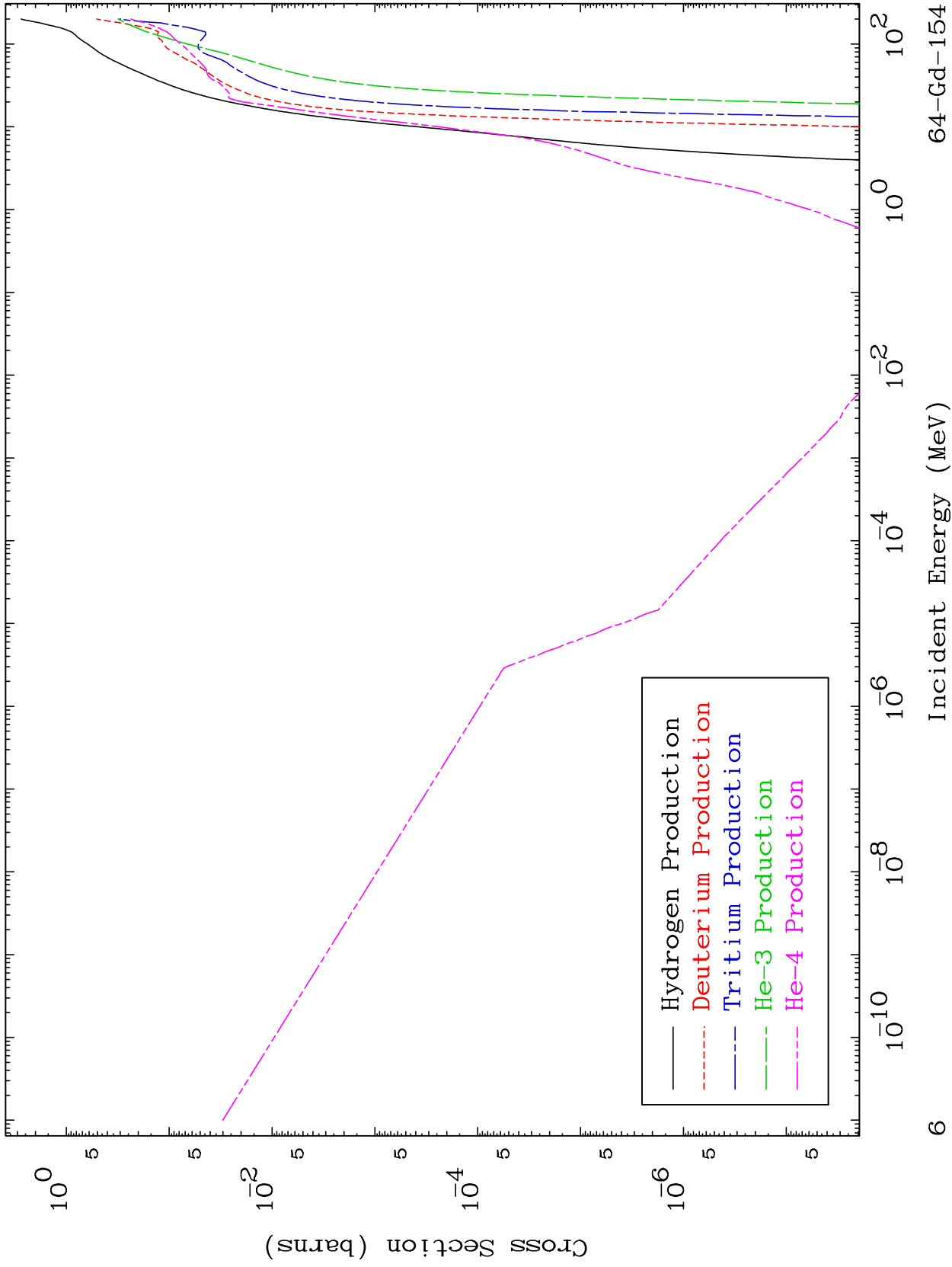
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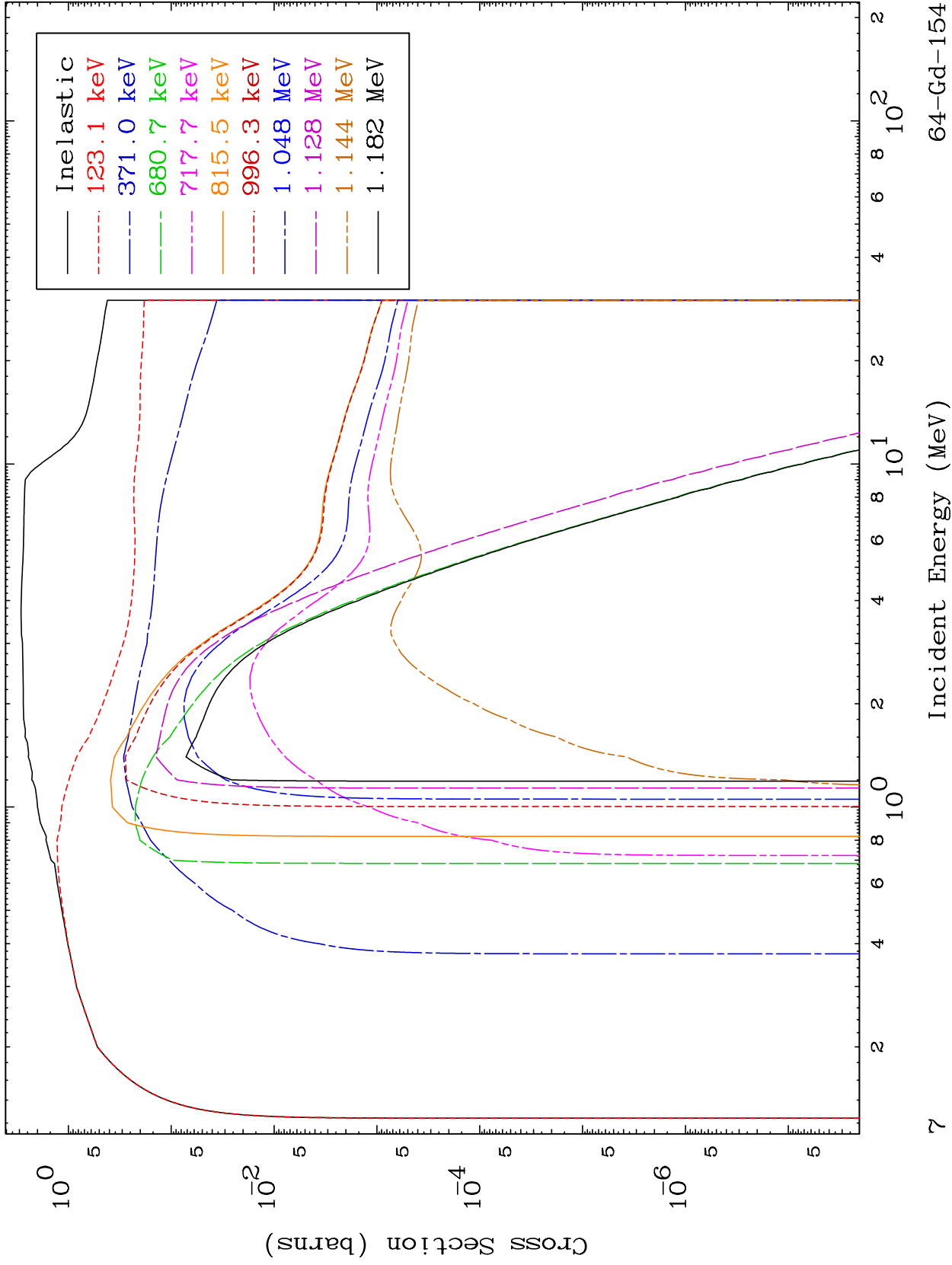


MAT 6431

Particle Production  
293 Kelvin Cross Sections

64-Gd-154



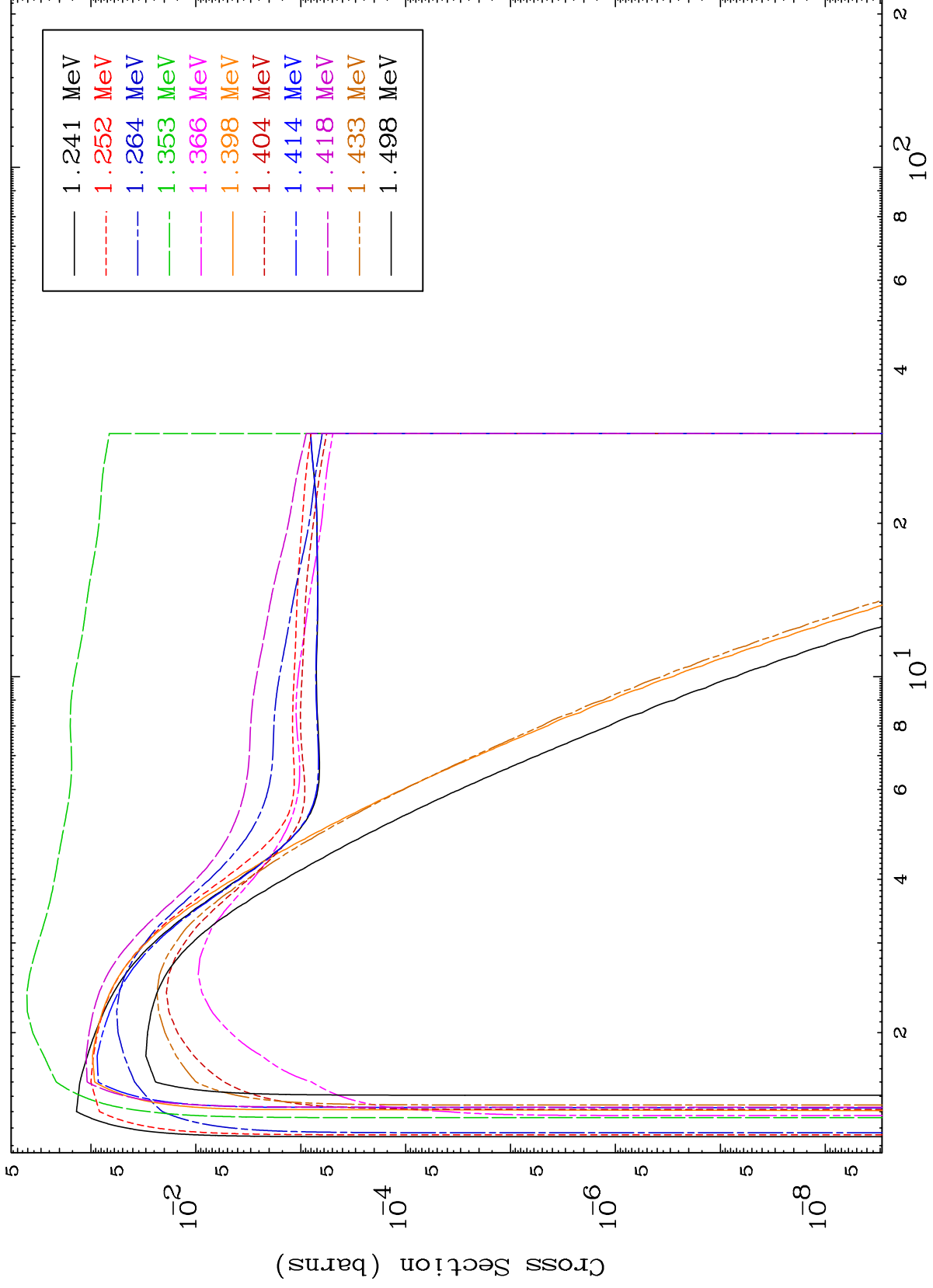




MAT 6431

(n,n') Level  
293 Kelvin Cross Sections

64-Gd-154



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Incident Energy (MeV)

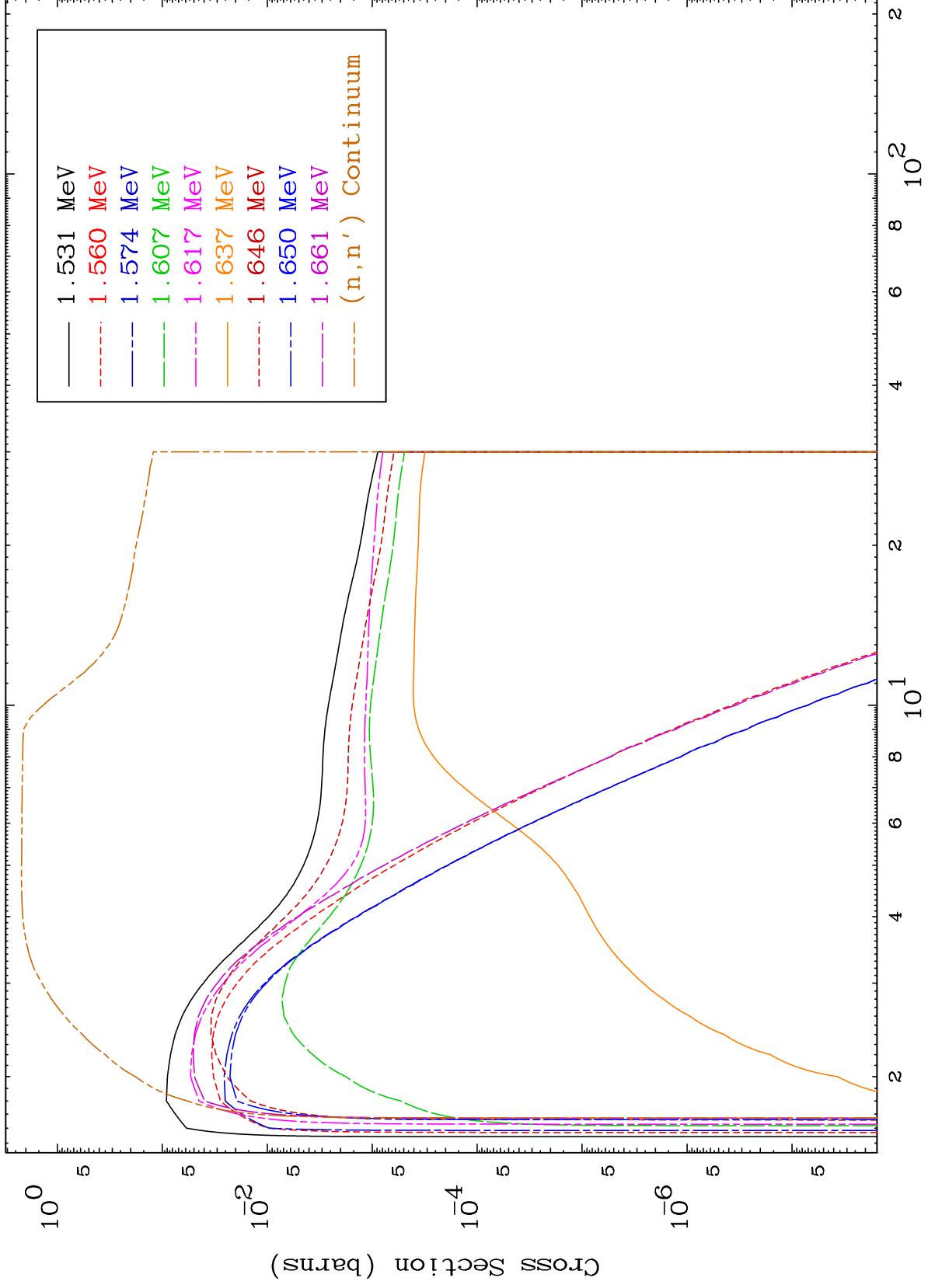
64-Gd-154

MAT 6431

(n,n') Level

64-Gd-154

293 Kelvin Cross Sections



9

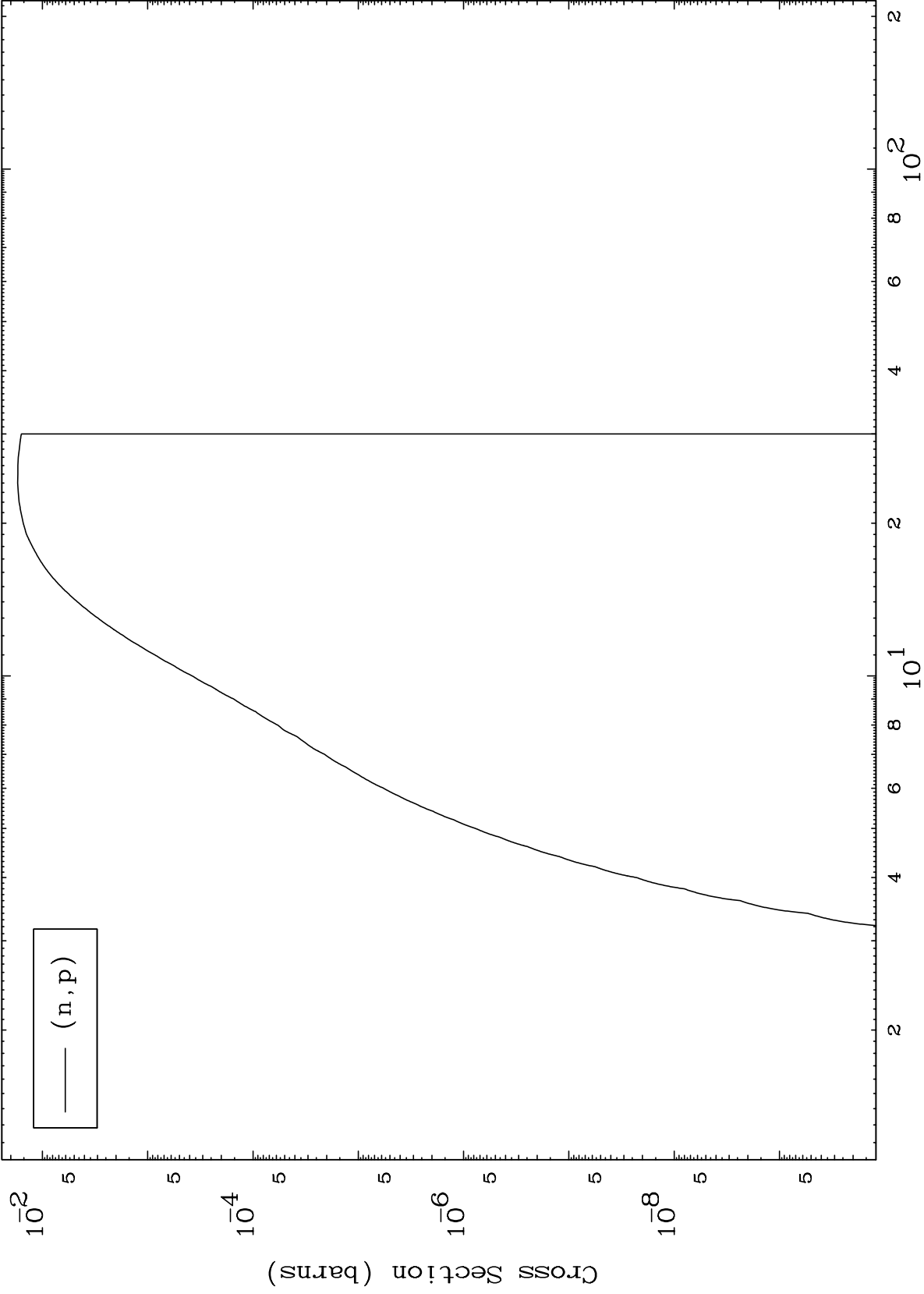
Incident Energy (MeV)

64-Gd-154

MAT 6431

(n,p) Levels  
293 Kelvin Cross Sections

64-Gd-154



10

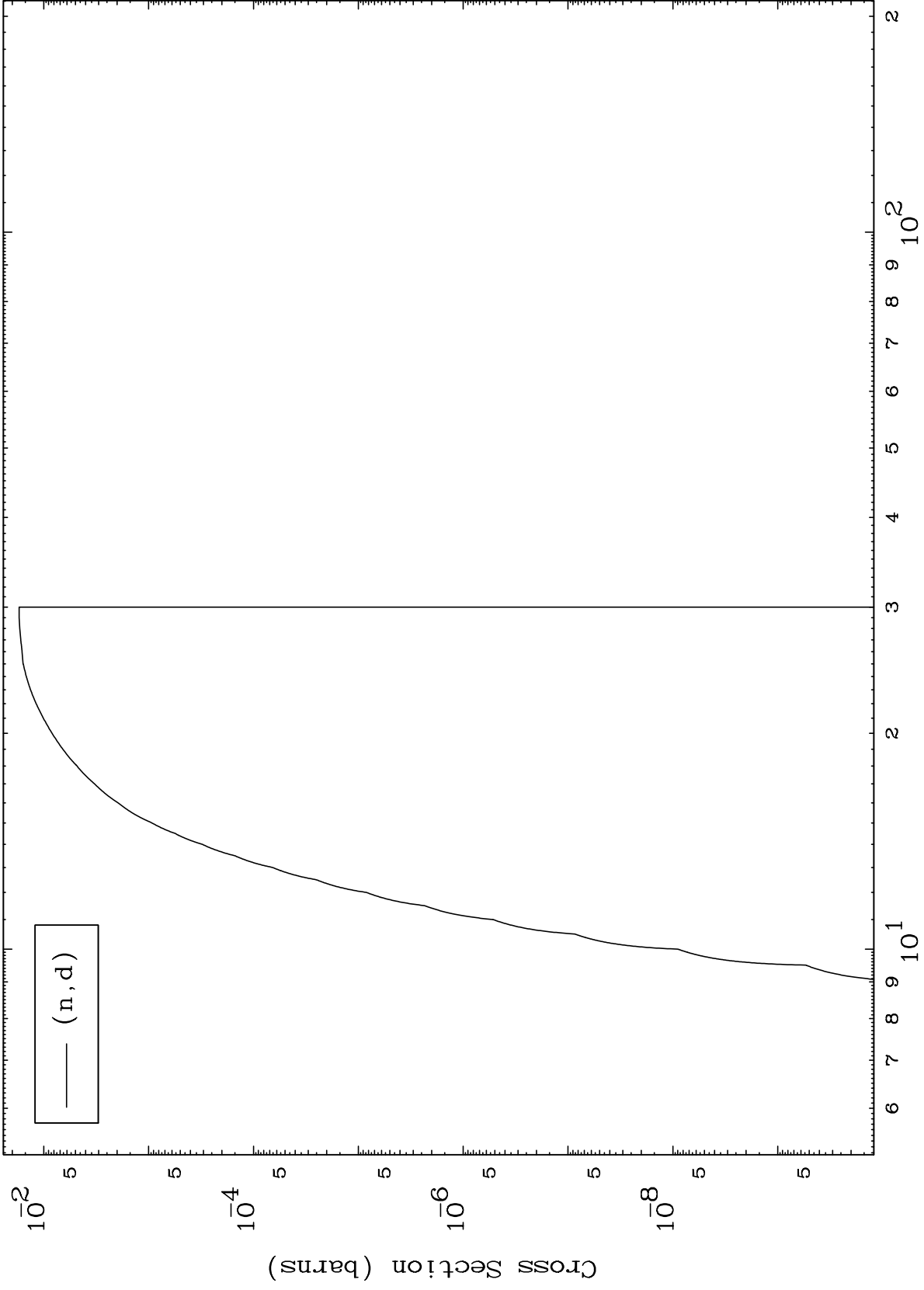
Incident Energy (MeV)

64-Gd-154

MAT 6431

(n,d) Levels  
293 Kelvin Cross Sections

64-Gd-154



11

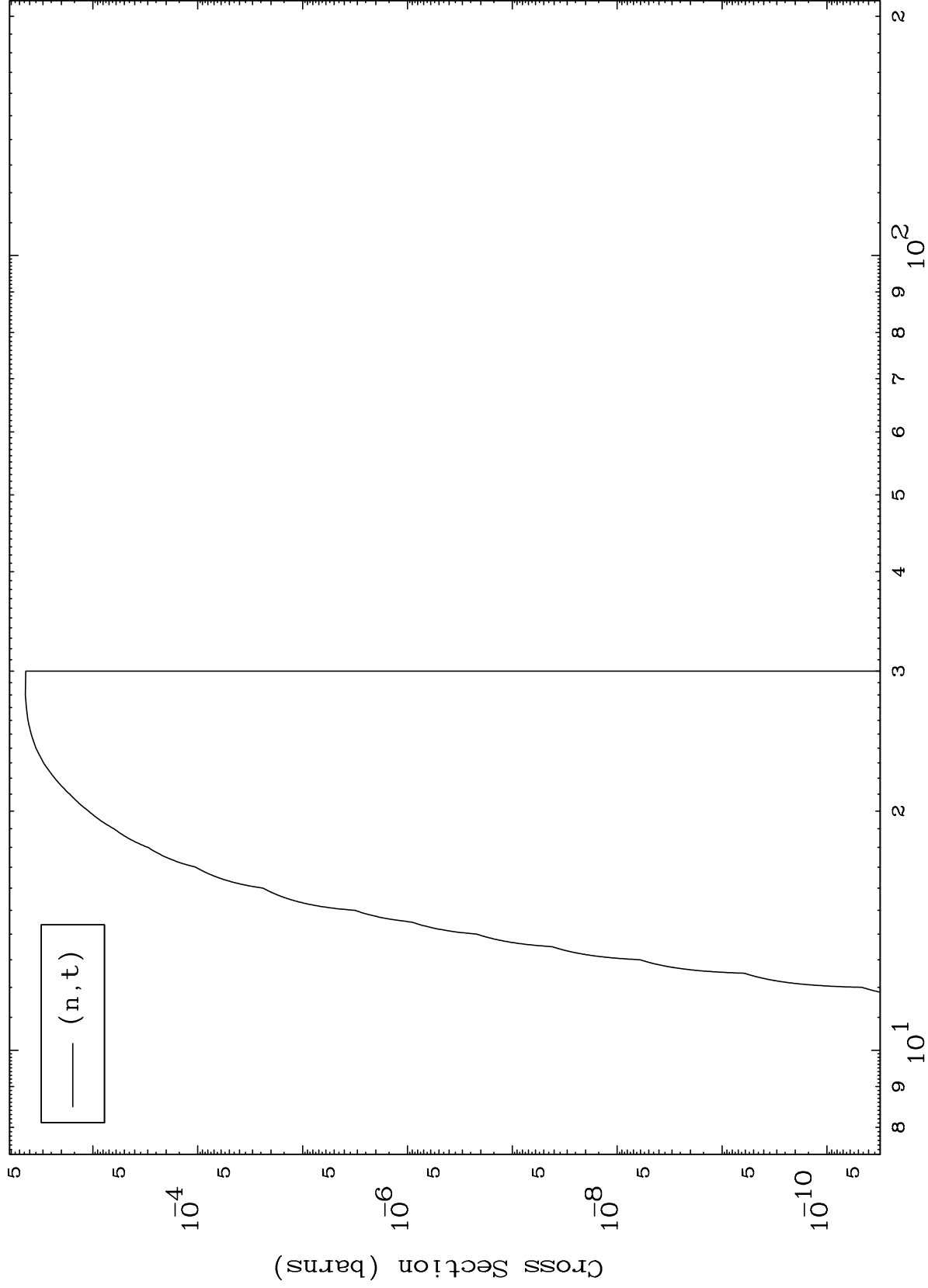
Incident Energy (MeV)

64-Gd-154

MAT 6431

(n,t) Levels  
293 Kelvin Cross Sections

64-Gd-154



12

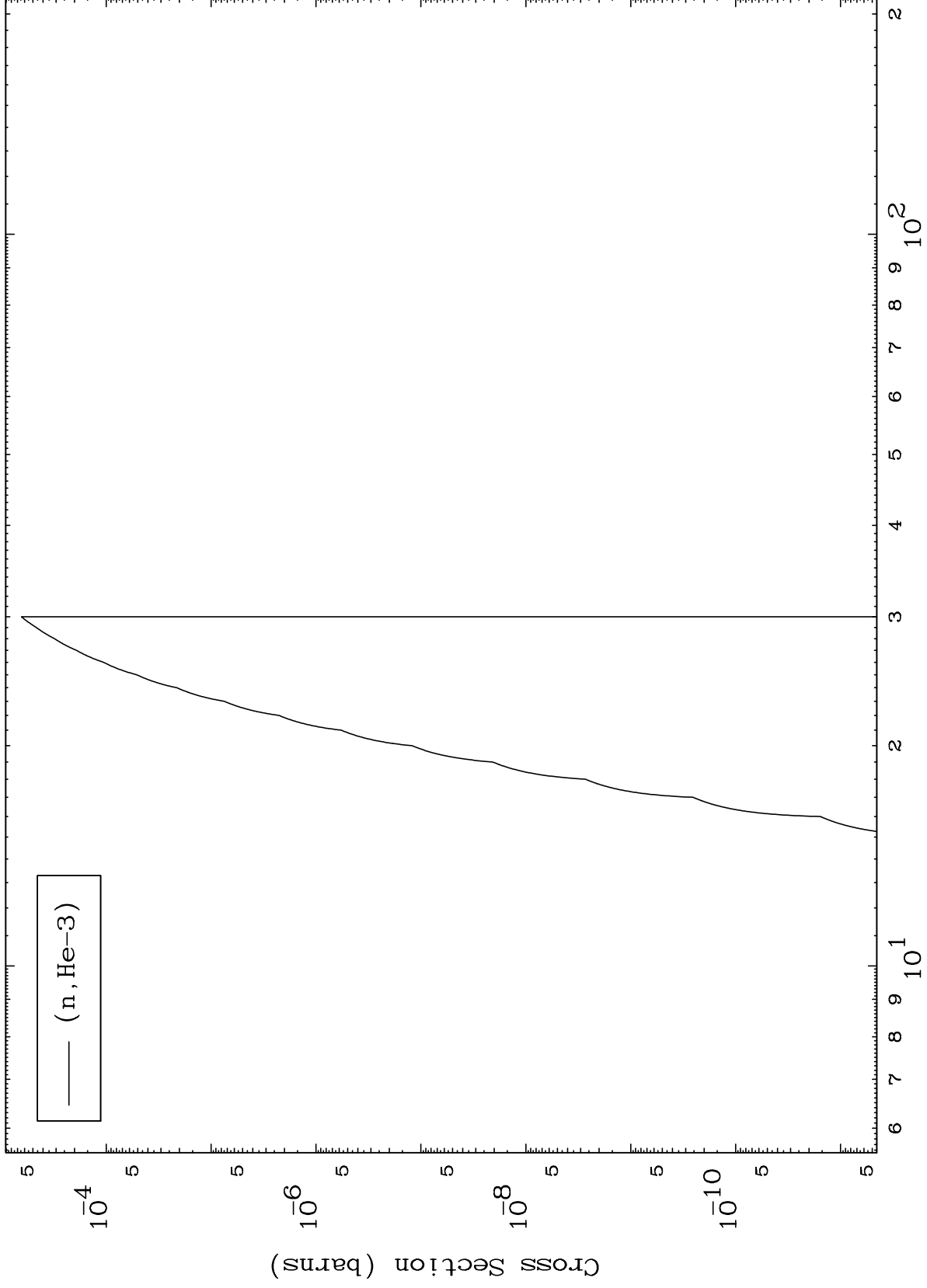
Incident Energy (MeV)

64-Gd-154

MAT 6431

(n,He3) Levels  
293 Kelvin Cross Sections

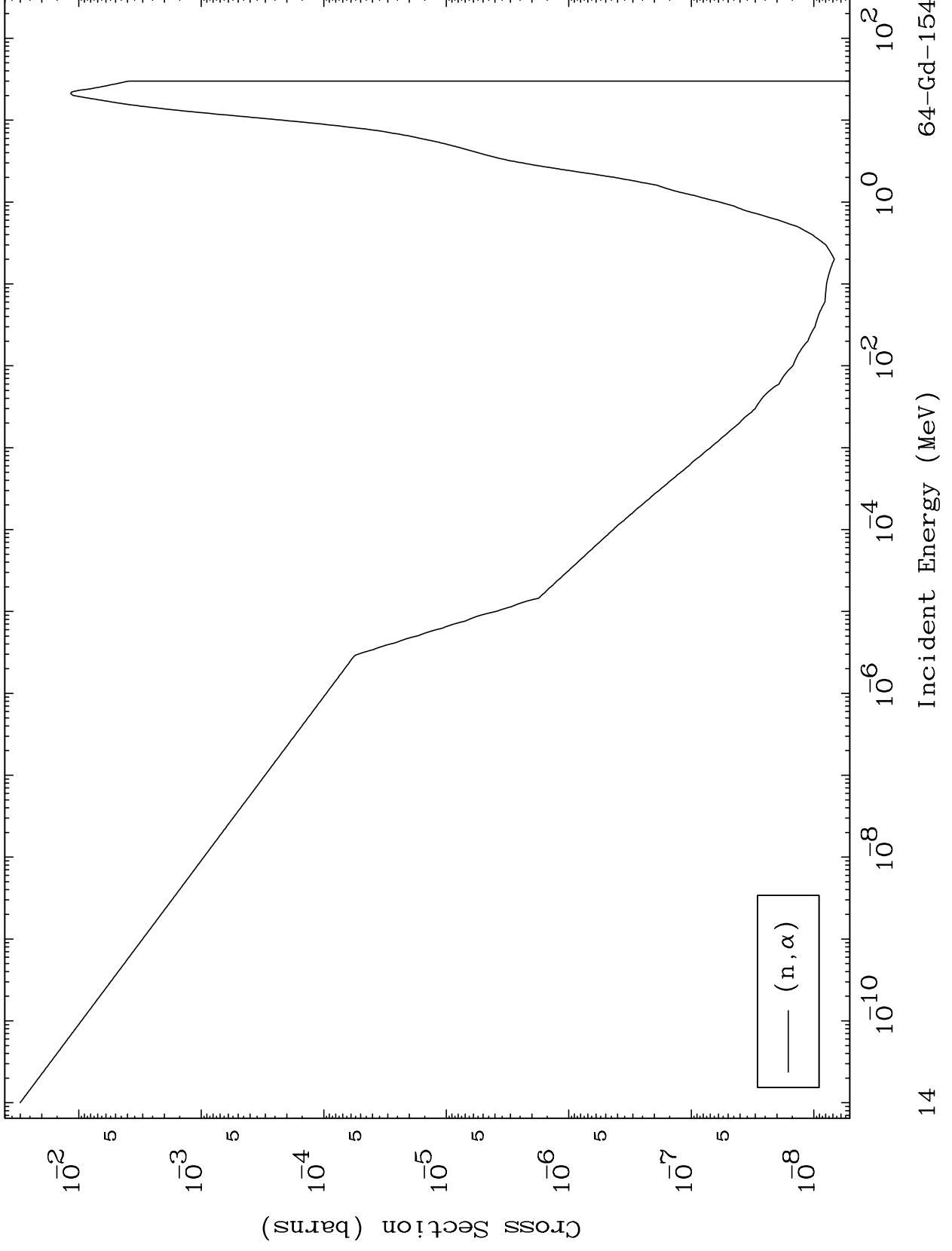
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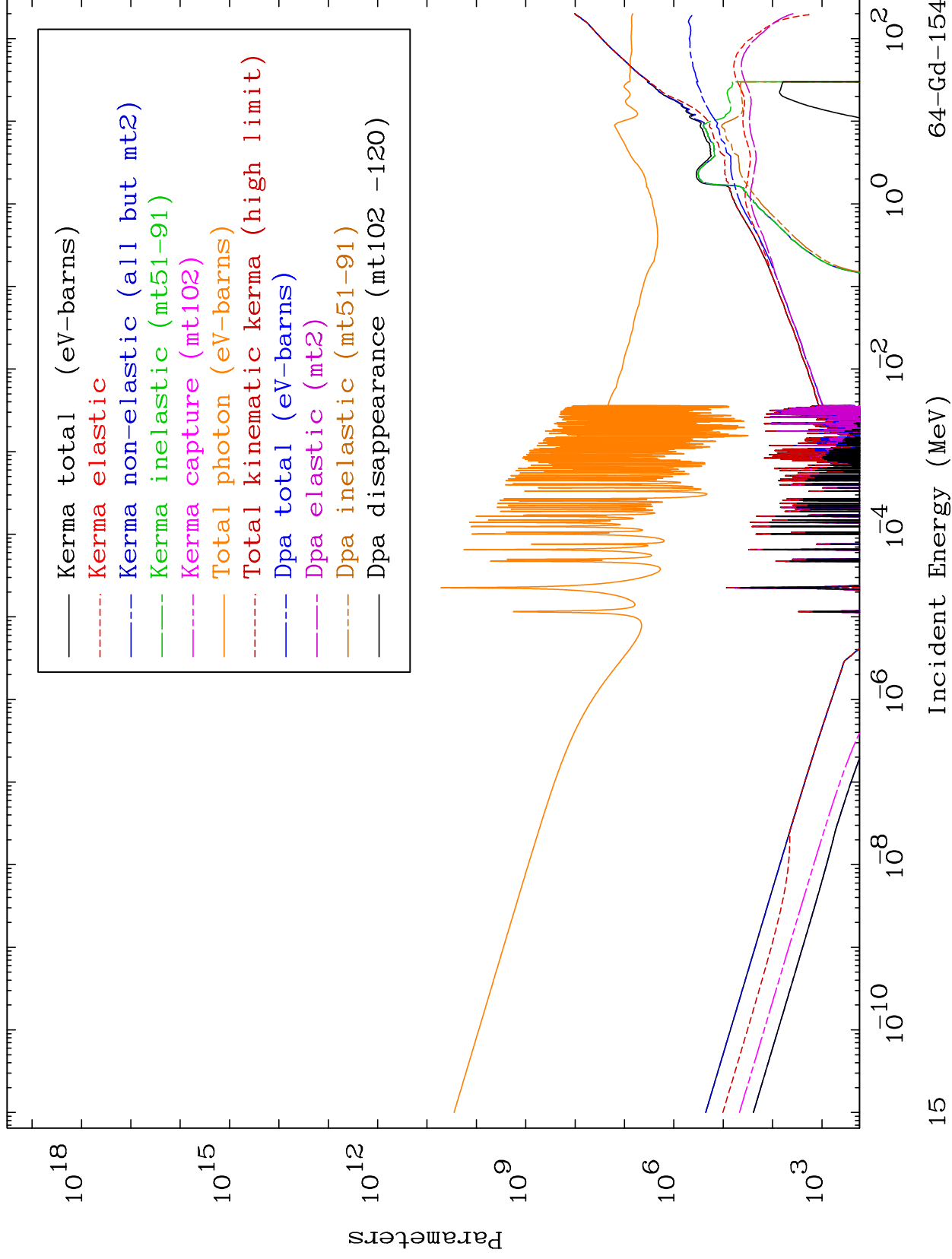


MAT 6431

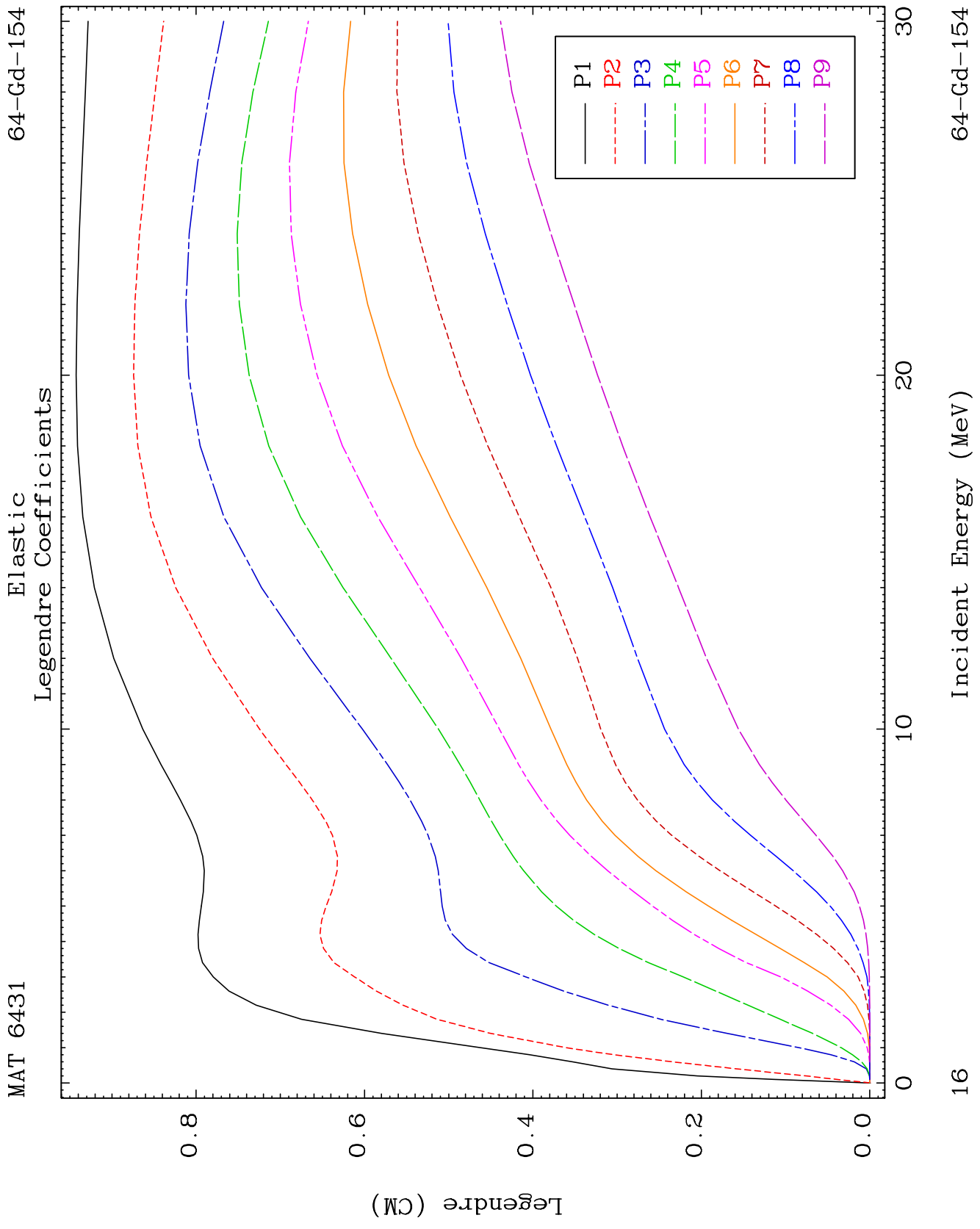
(n,  $\alpha$ ) Levels  
293 Kelvin Cross Sections

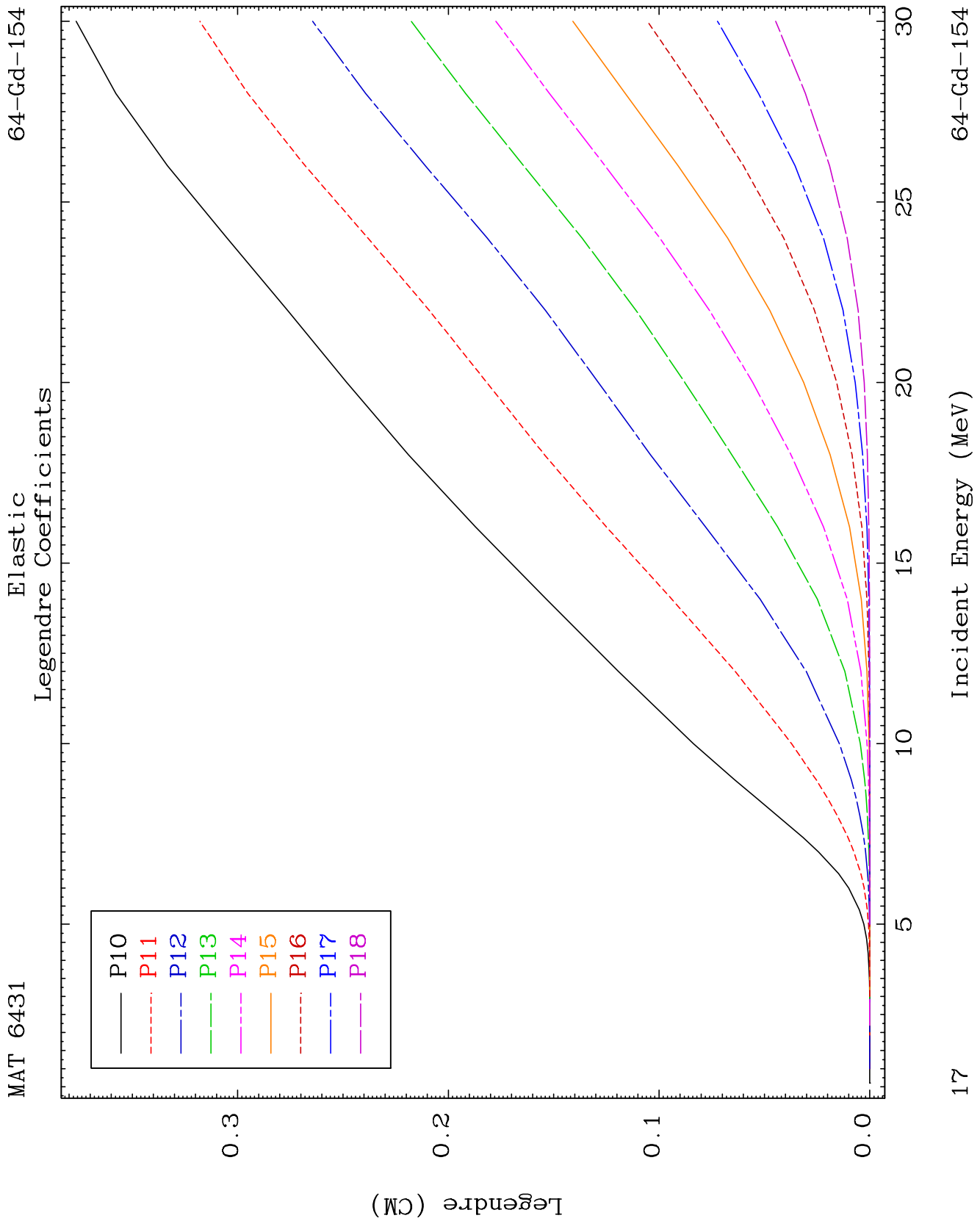
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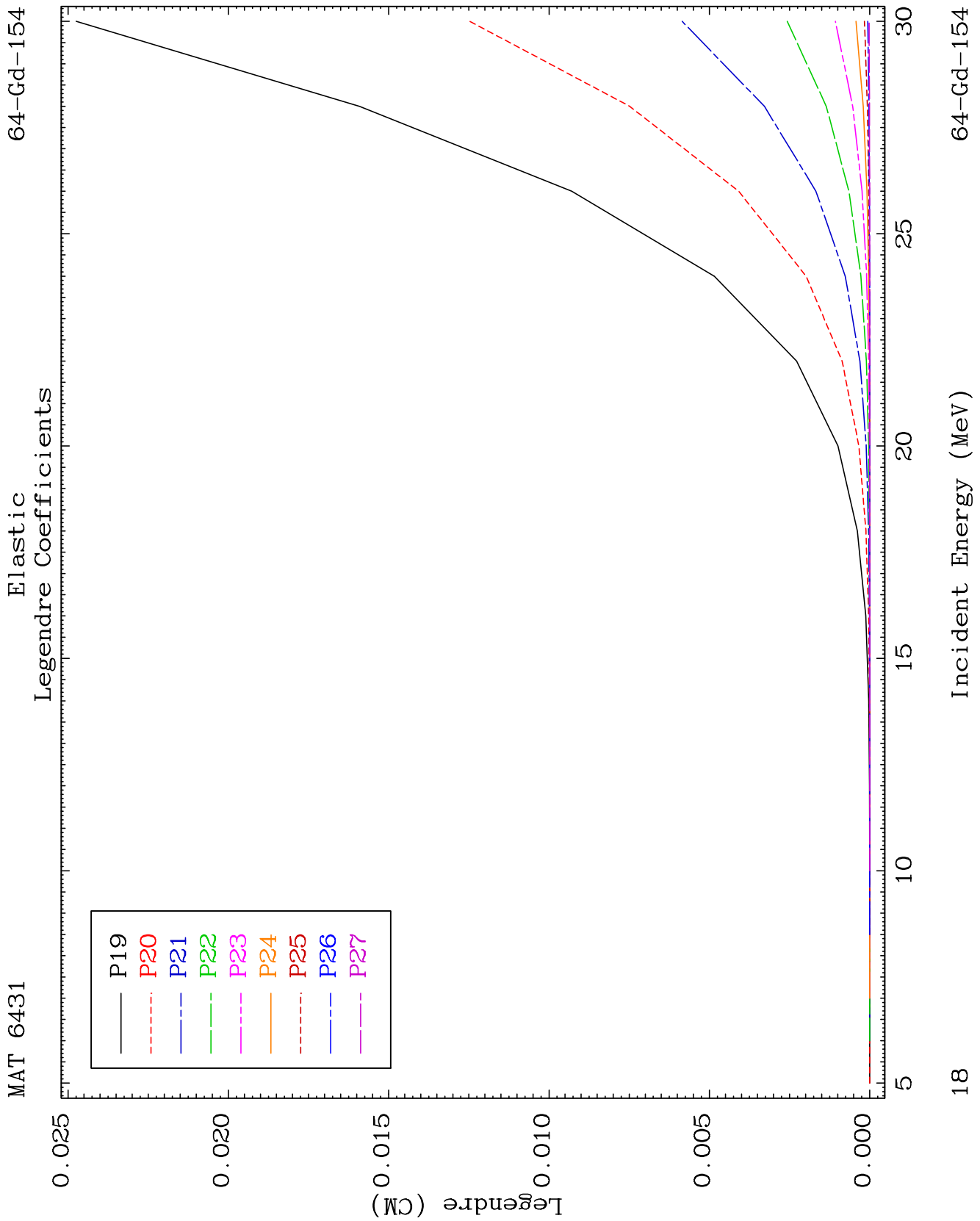








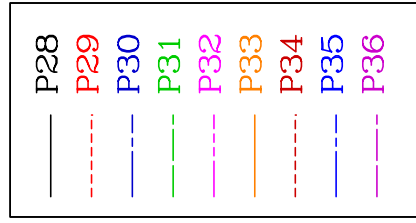




MAT 6431

Elastic  
Legendre Coefficients

64-Gd-154



$\times 10^{-6}$

Legendre (CM)

6

4

2

0

15

20

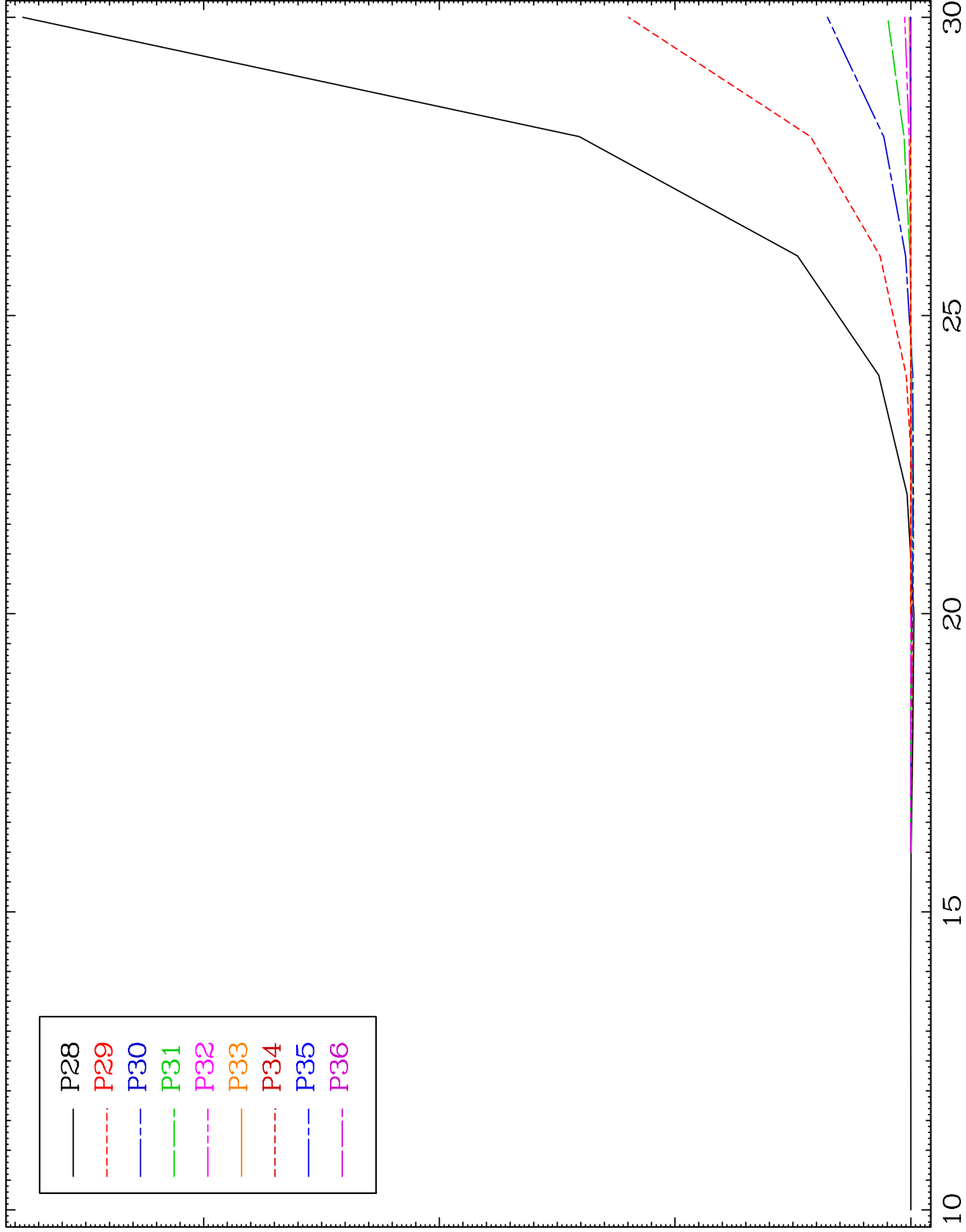
25

30

19

Incident Energy (MeV)

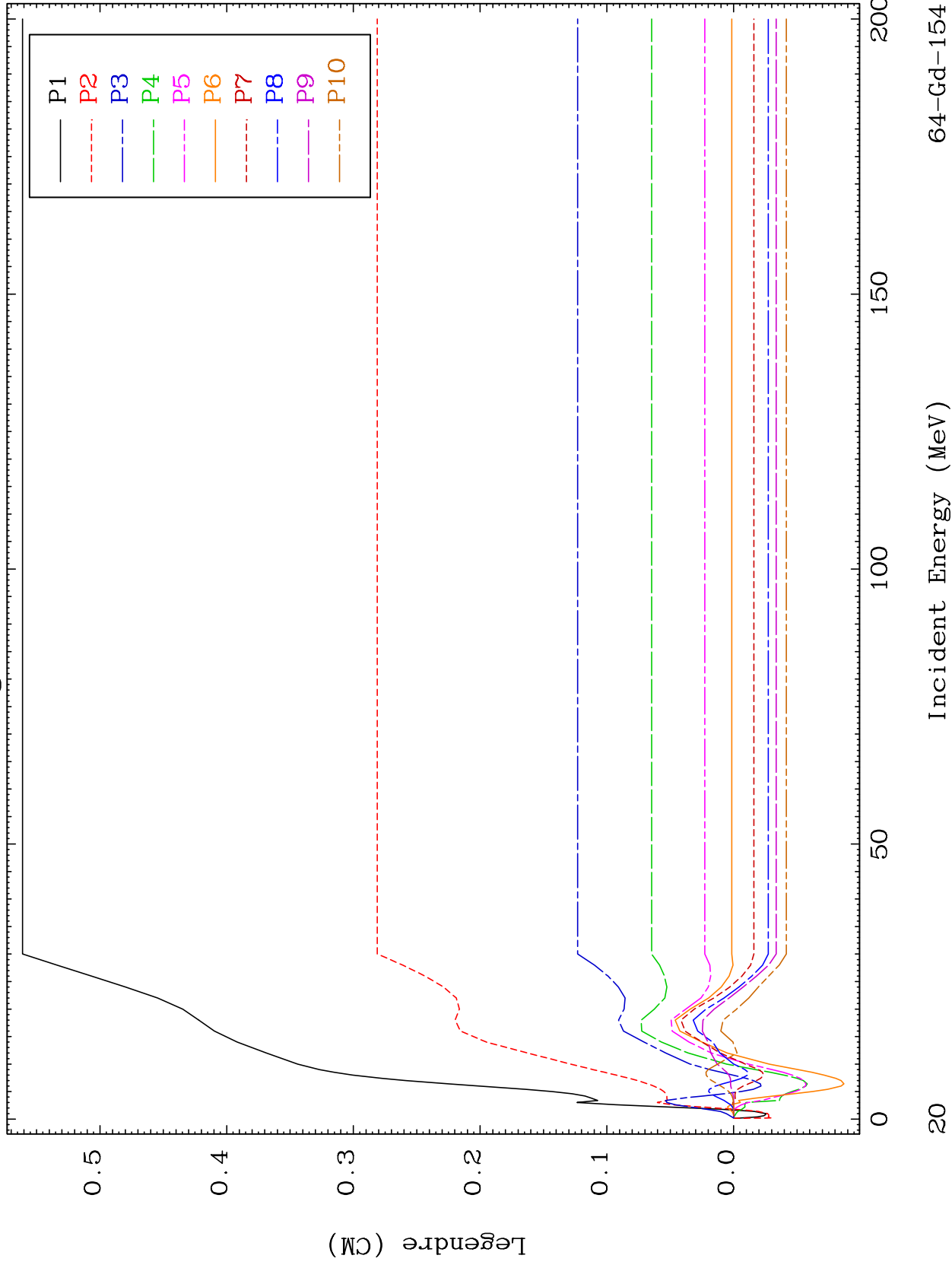
64-Gd-154



MAT 6431

123.1 keV (n,n') Level  
Legendre Coefficients

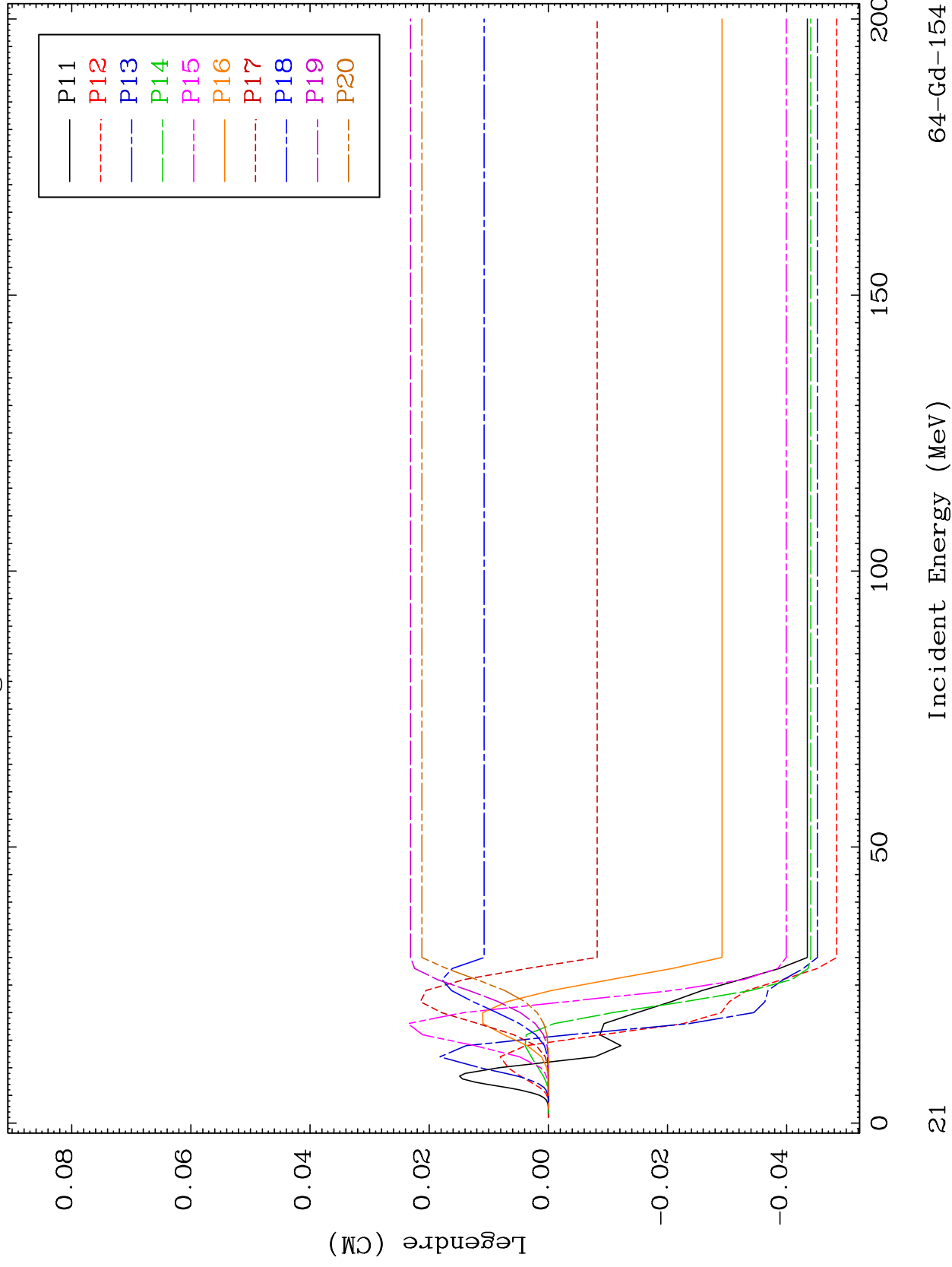
64-Gd-154



MAT 6431

123.1 keV (n,n') Level  
Legendre Coefficients

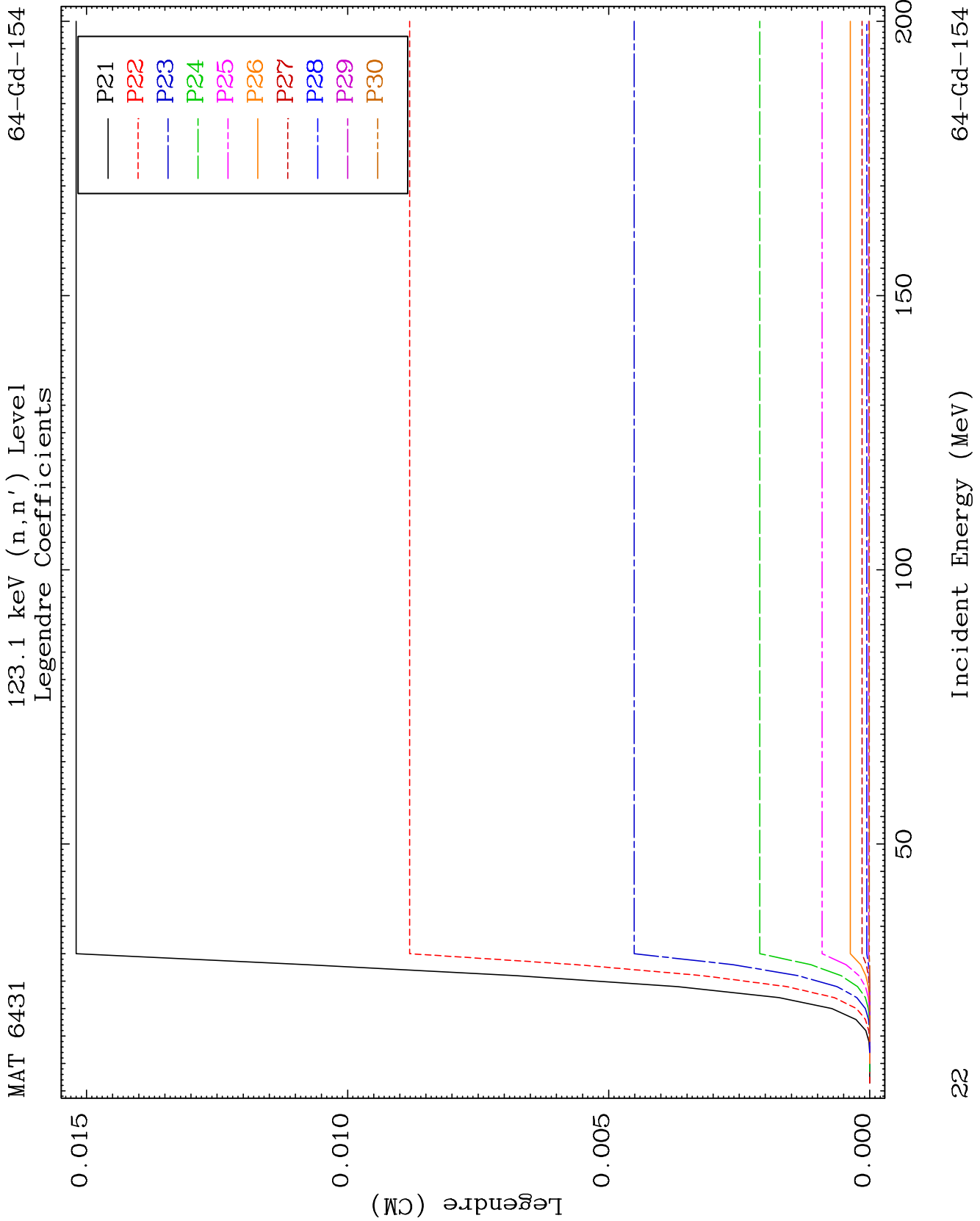
64-Gd-154



21

Incident Energy (MeV)

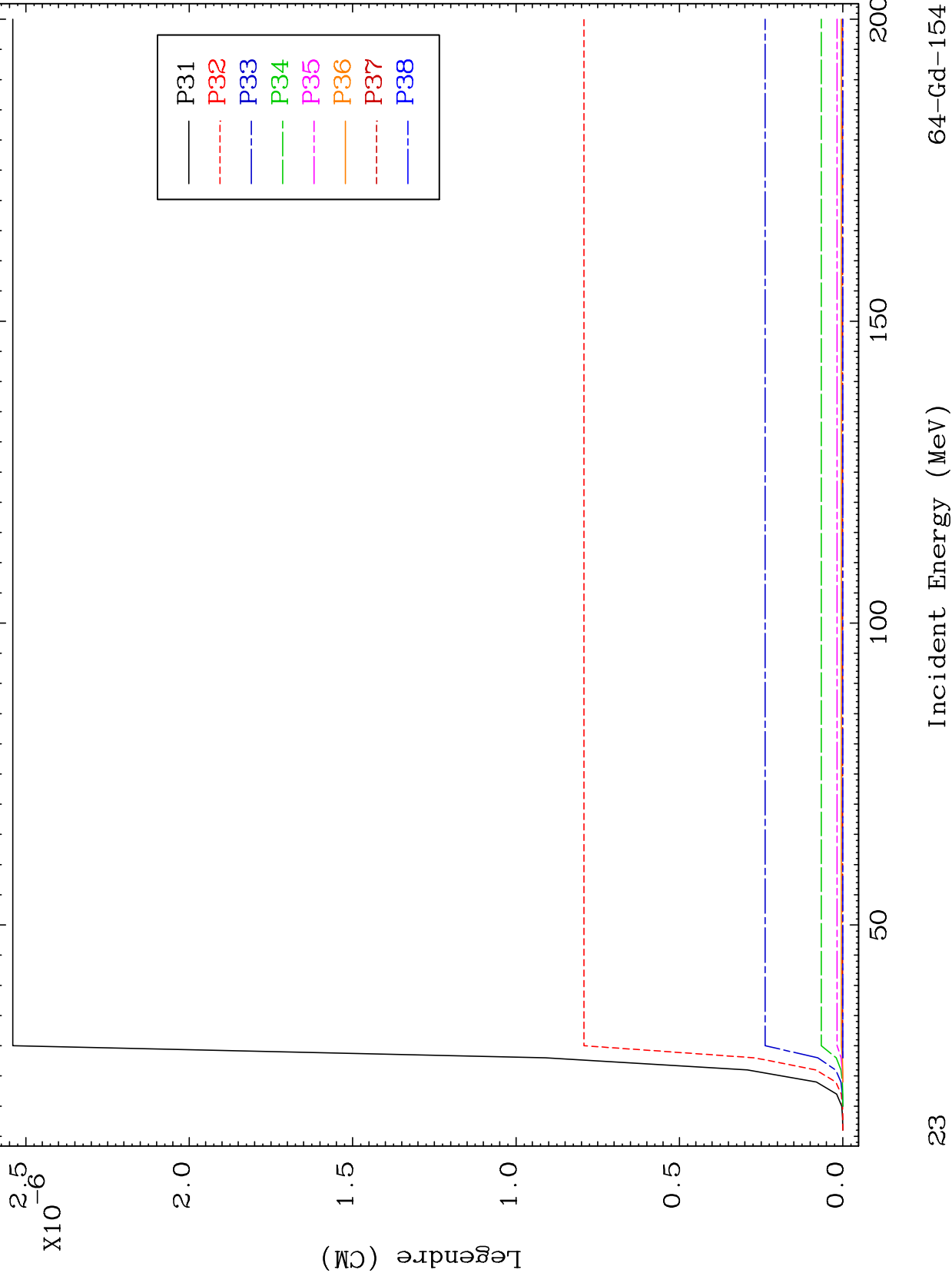
64-Gd-154



MAT 6431

123.1 keV (n, n') Level  
Legendre Coefficients

64-Gd-154

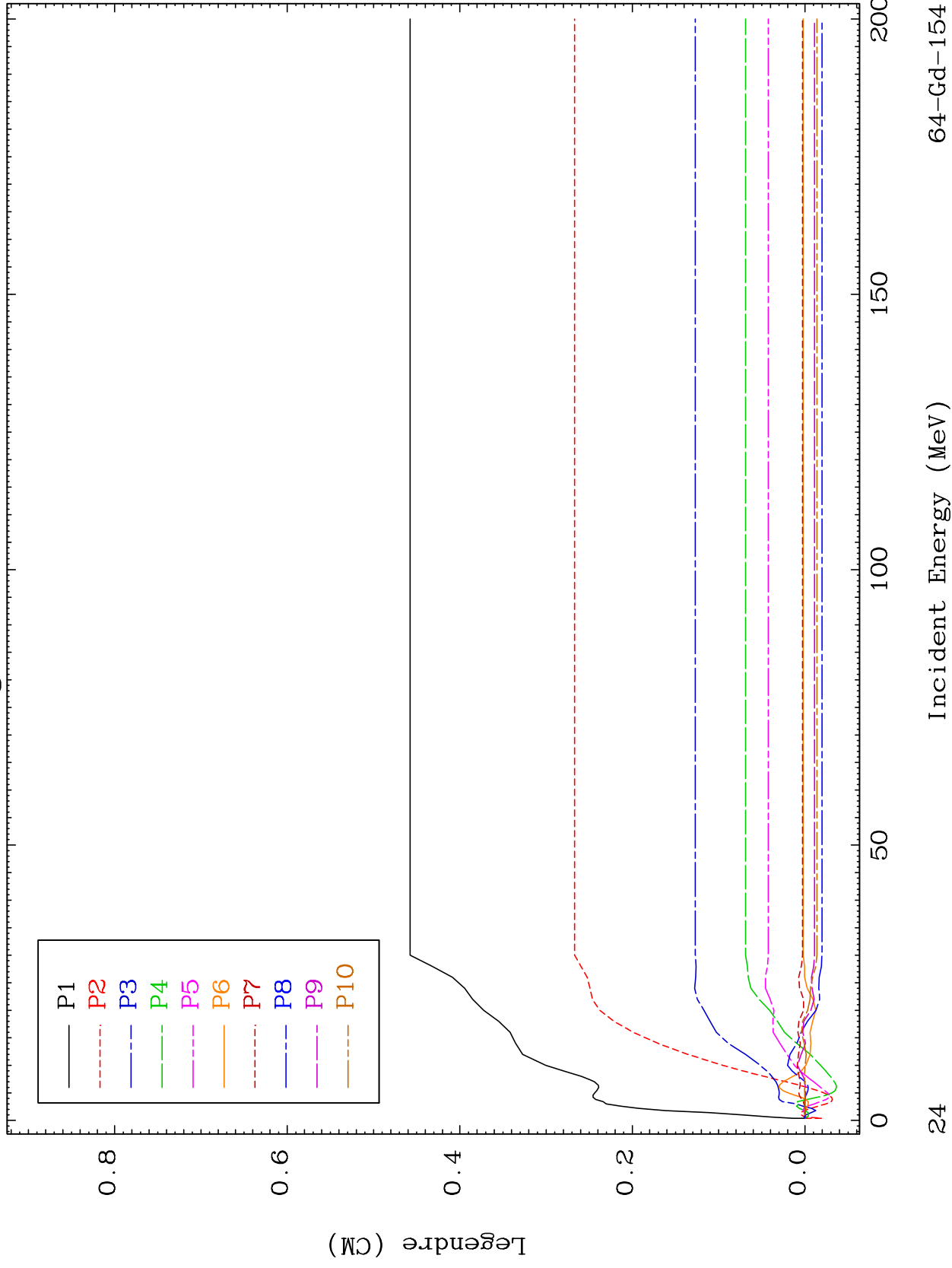




MAT 6431

371.0 keV (n,n') Level  
Legendre Coefficients

64-Gd-154



64-Gd-154

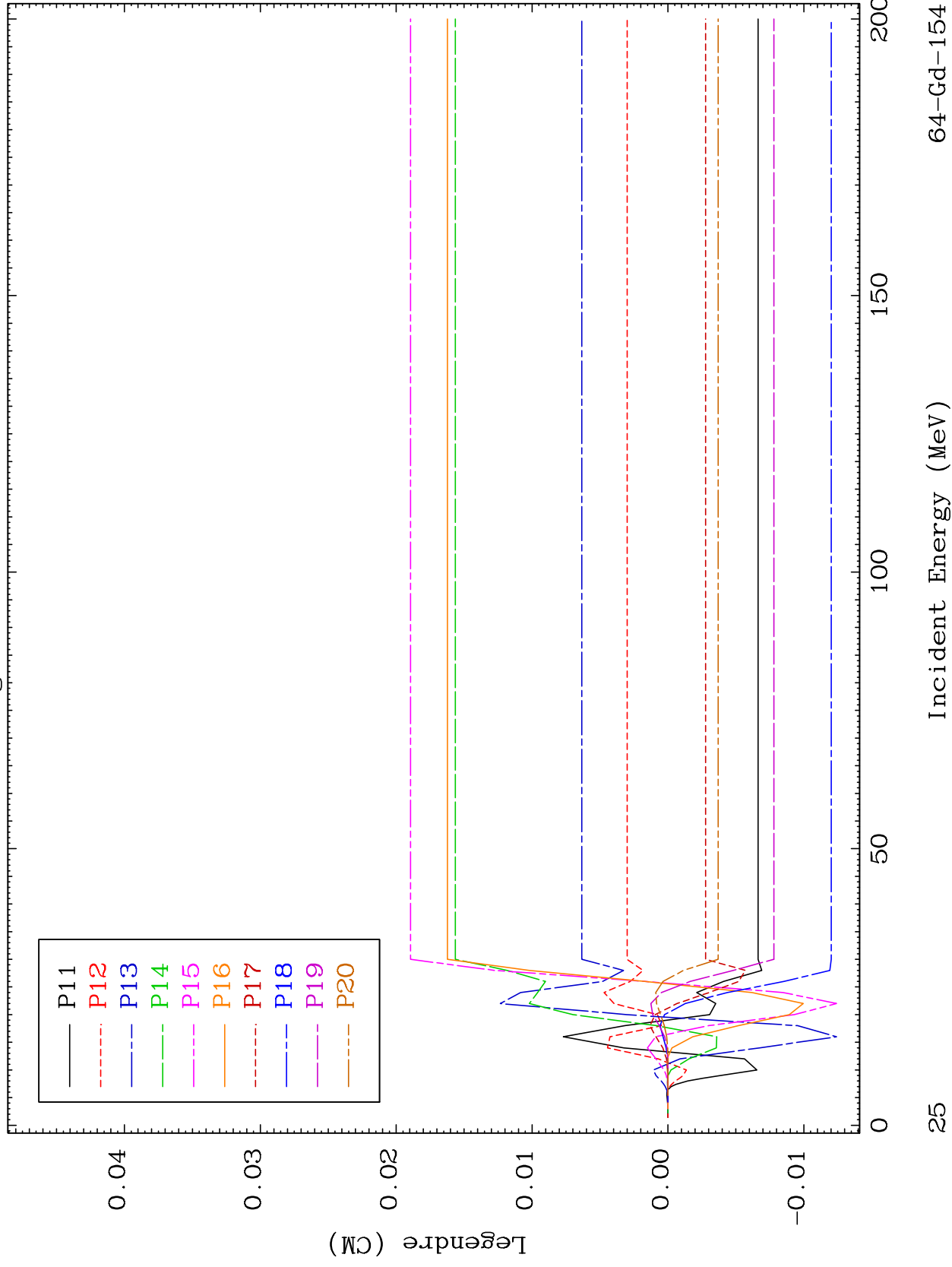
Incident Energy (MeV)

24

MAT 6431

371.0 keV (n,n') Level  
Legendre Coefficients

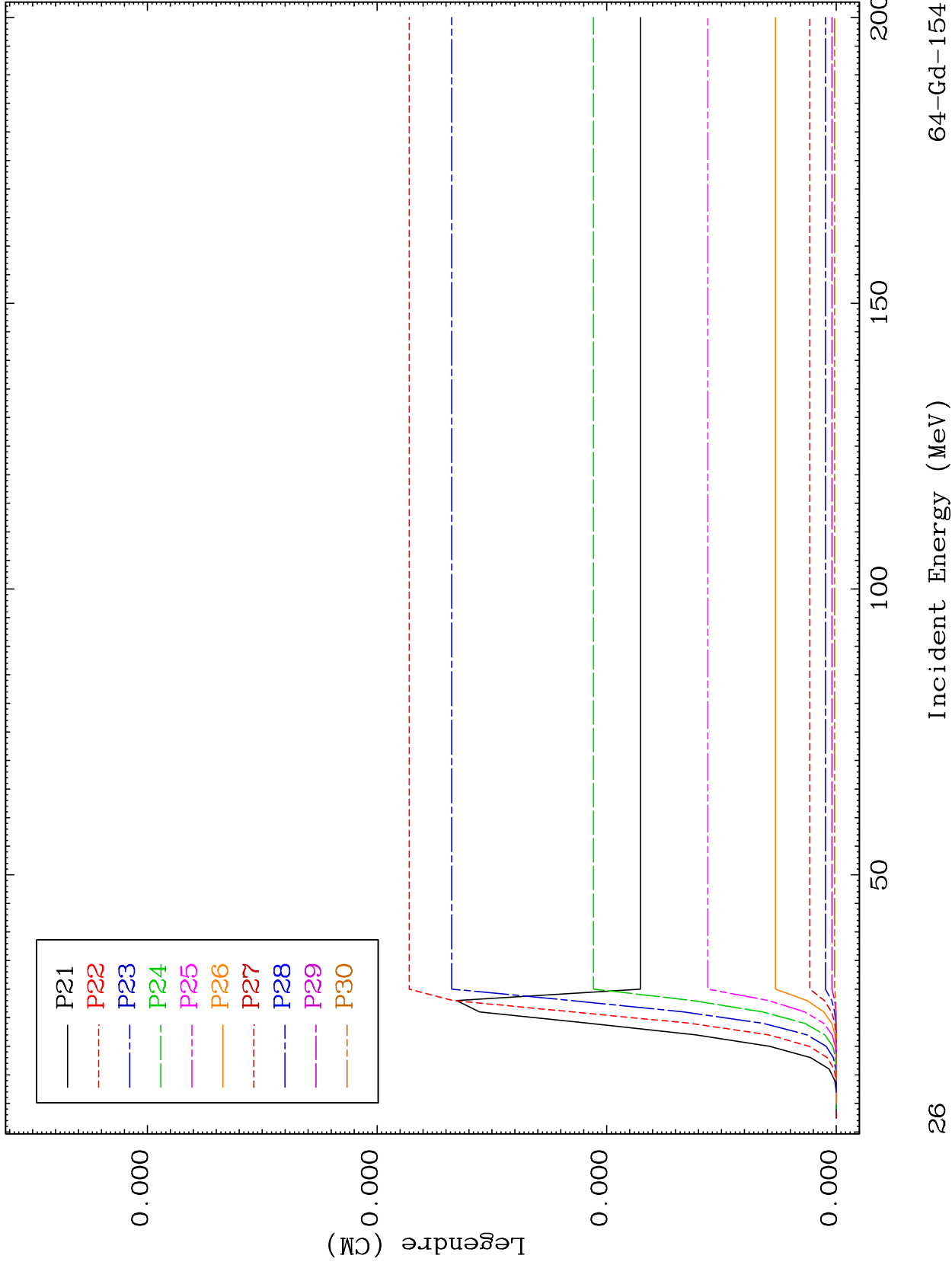
64-Gd-154



64-Gd-154

Incident Energy (MeV)

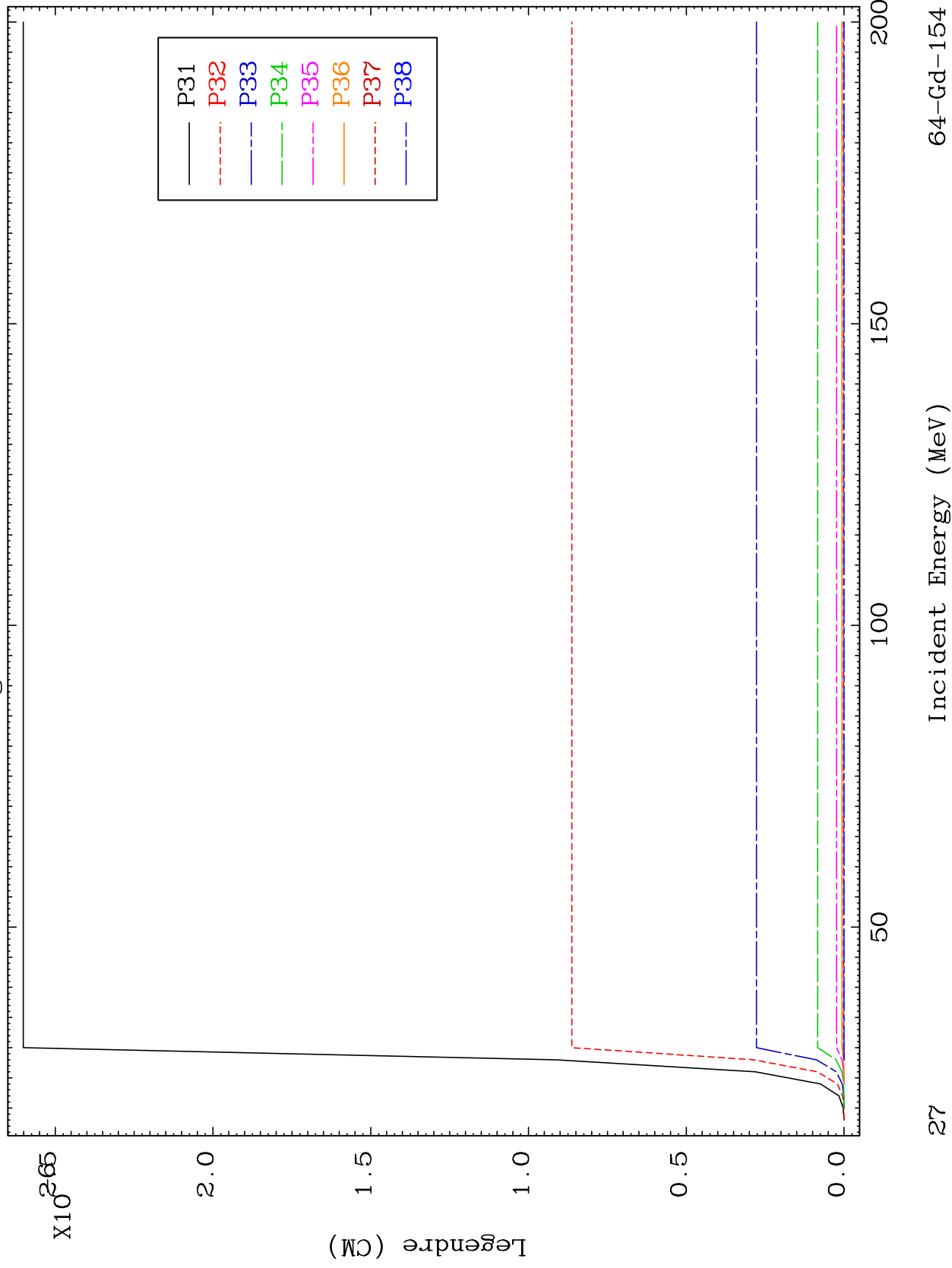
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MAT 6431

371.0 keV (n, n') Level  
Legendre Coefficients

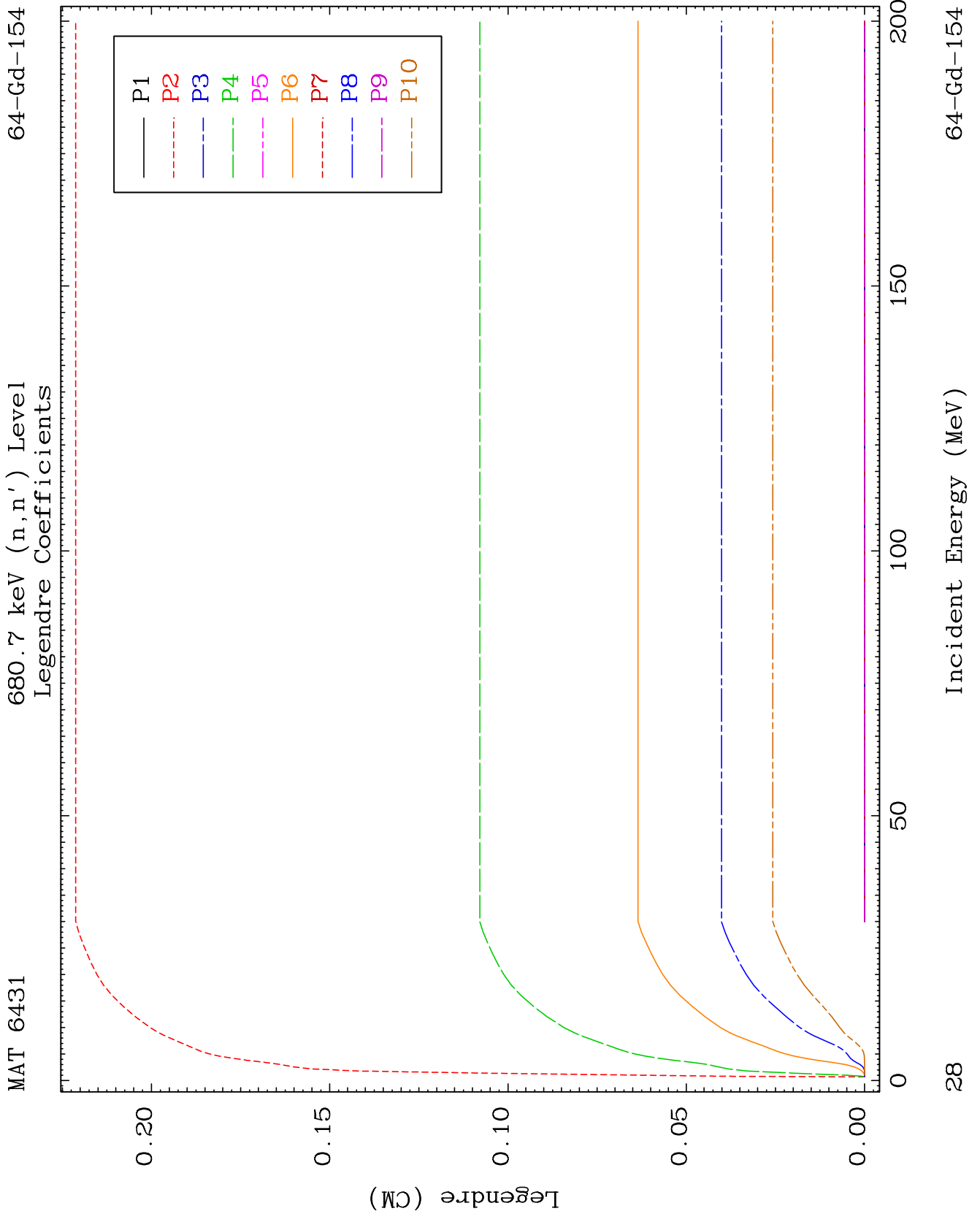
64-Gd-154



27

Incident Energy (MeV)

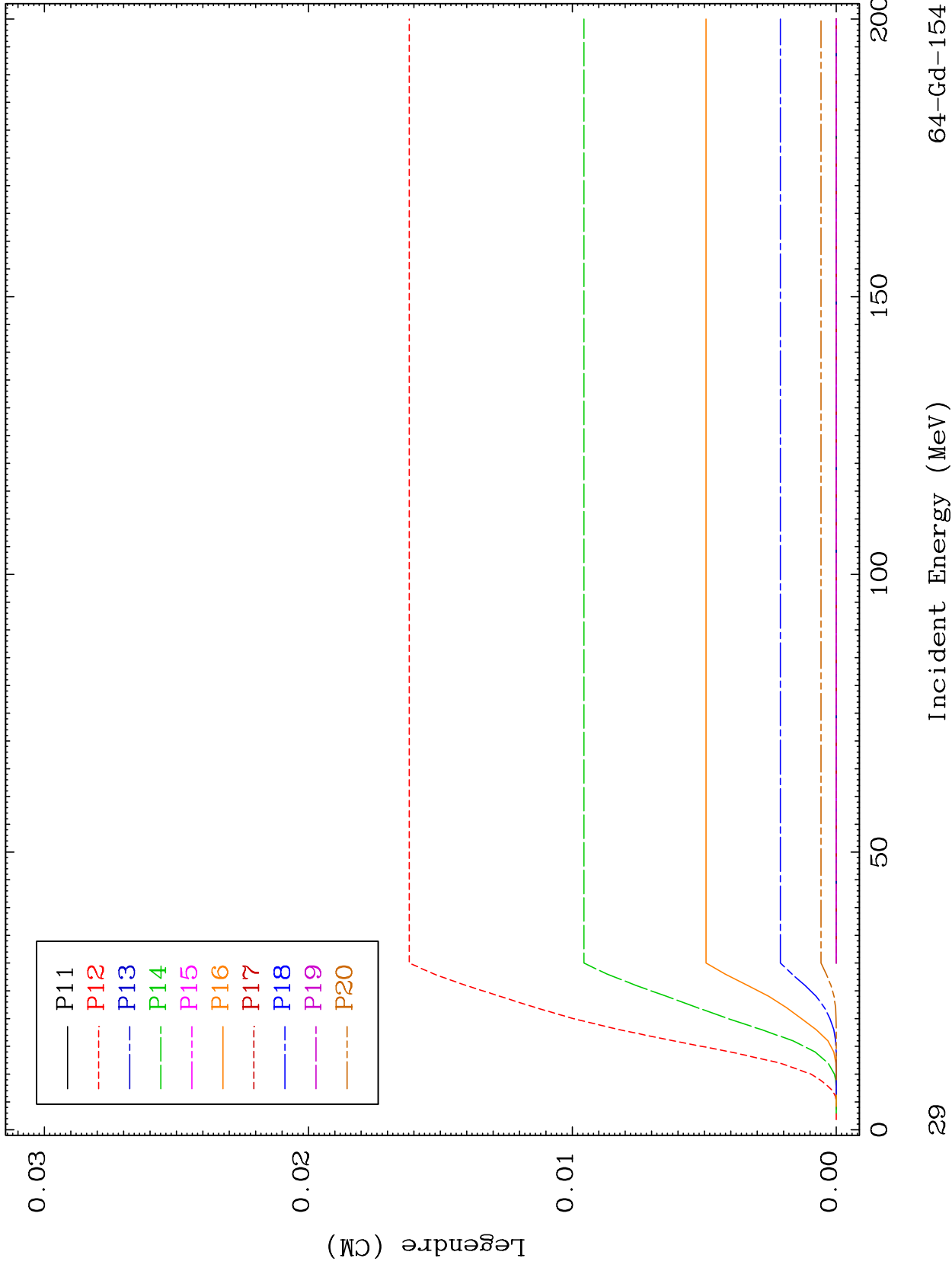
64-Gd-154



MAT 6431

680.7 keV (n,n') Level  
Legendre Coefficients

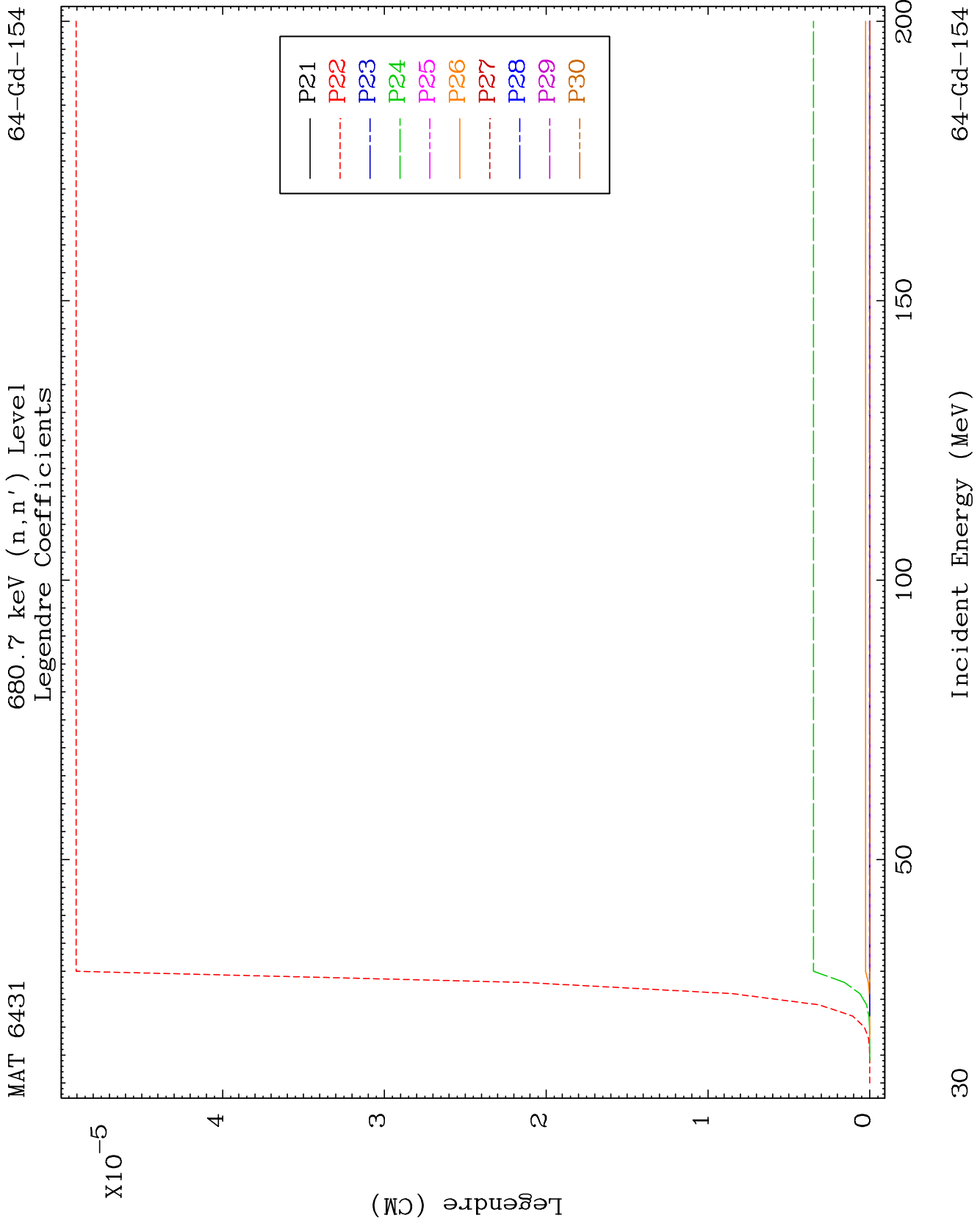
64-Gd-154



29

Incident Energy (MeV)

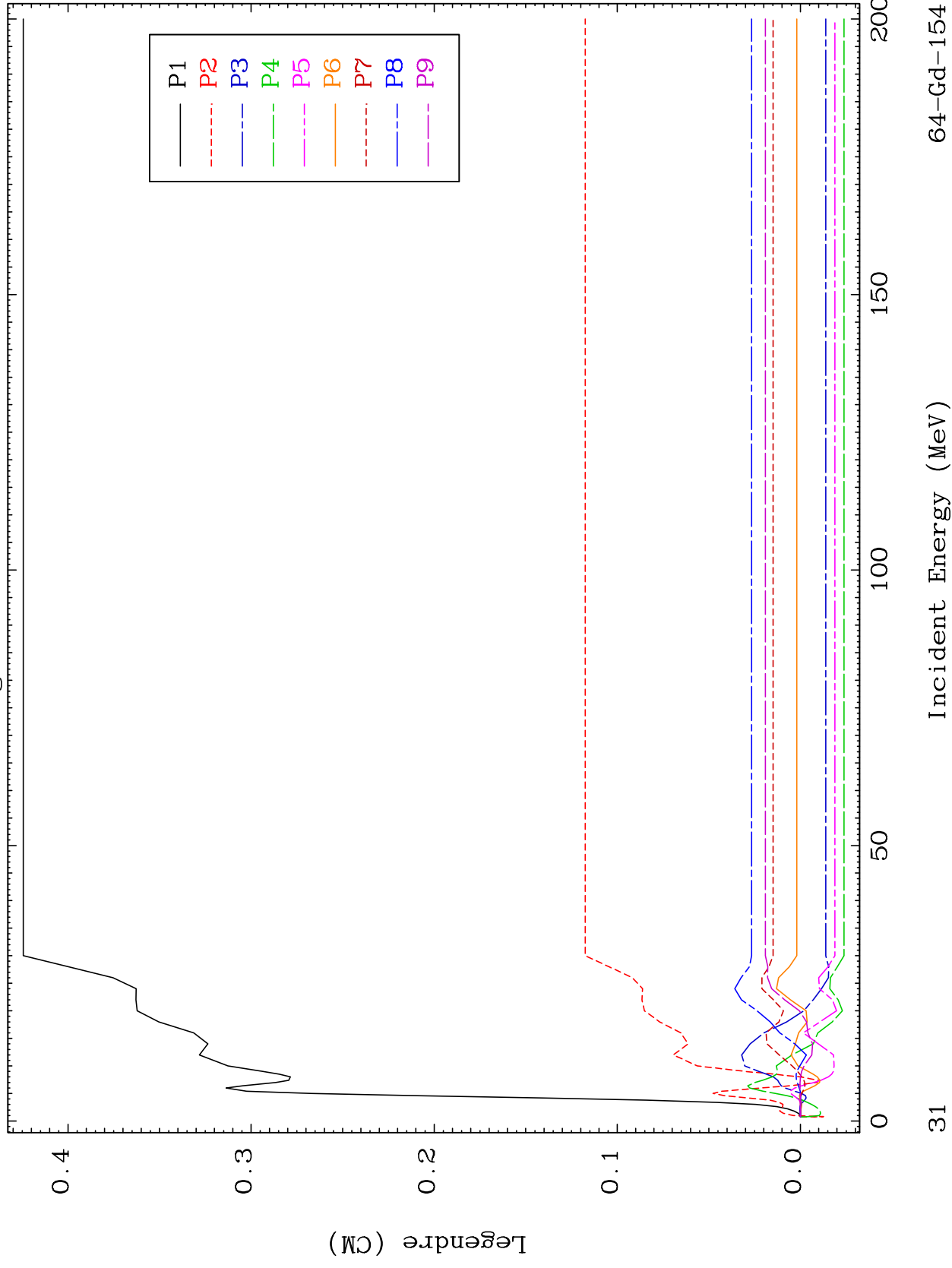
64-Gd-154



MAT 6431

717.7 keV (n,n') Level  
Legendre Coefficients

64-Gd-154



31

Incident Energy (MeV)

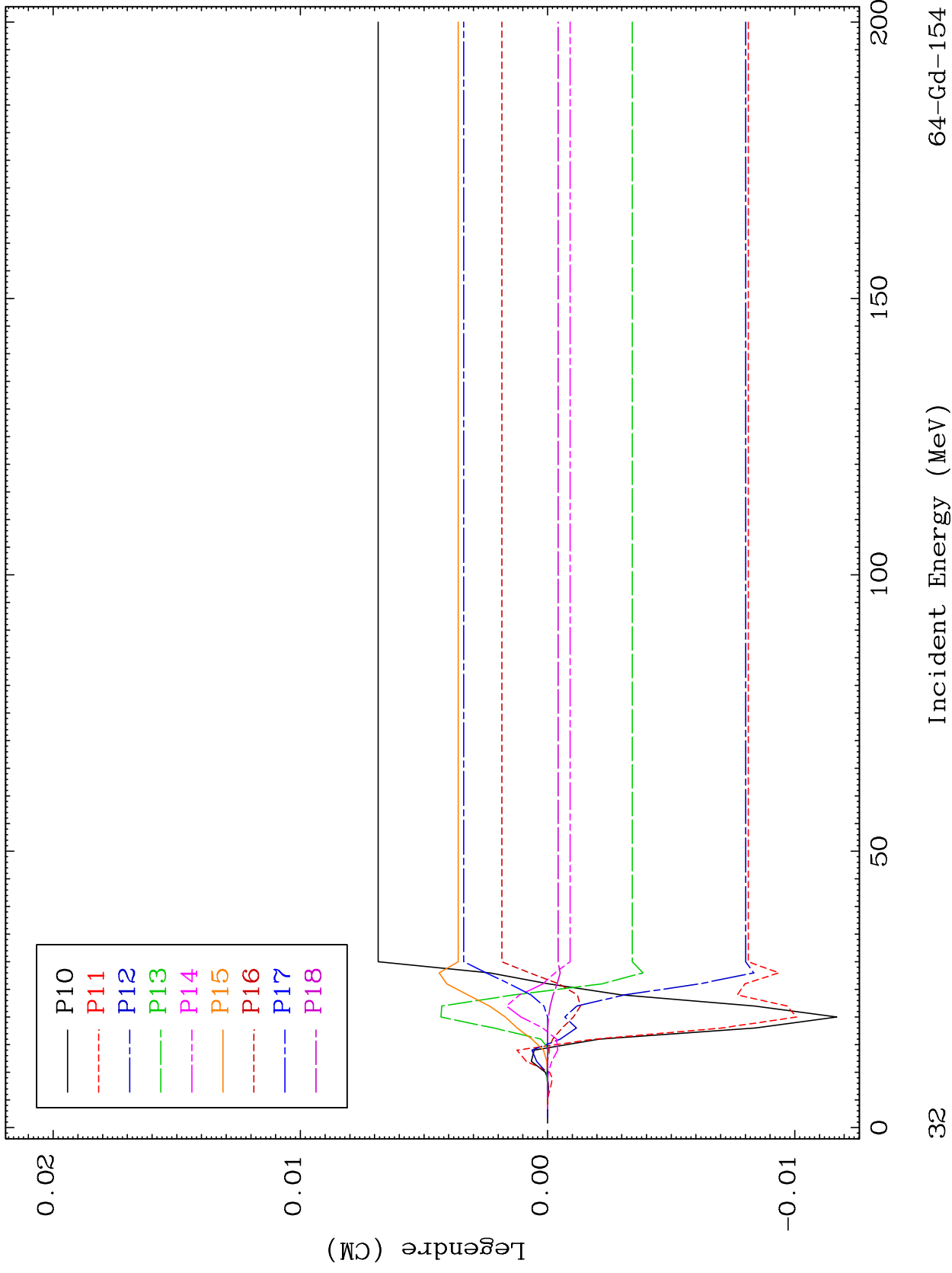
64-Gd-154



MAT 6431

717.7 keV (n,n') Level  
Legendre Coefficients

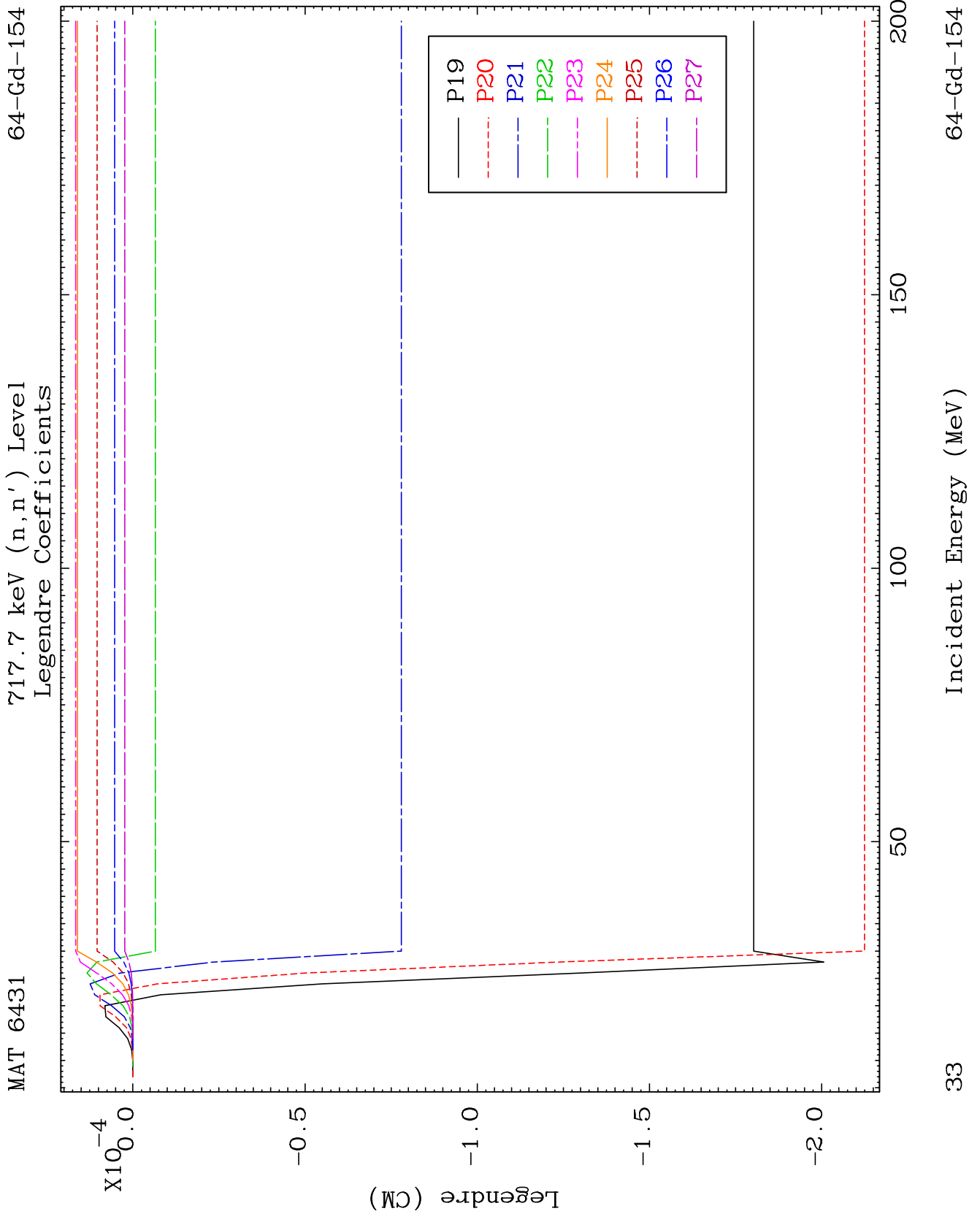
64-Gd-154



32

Incident Energy (MeV)

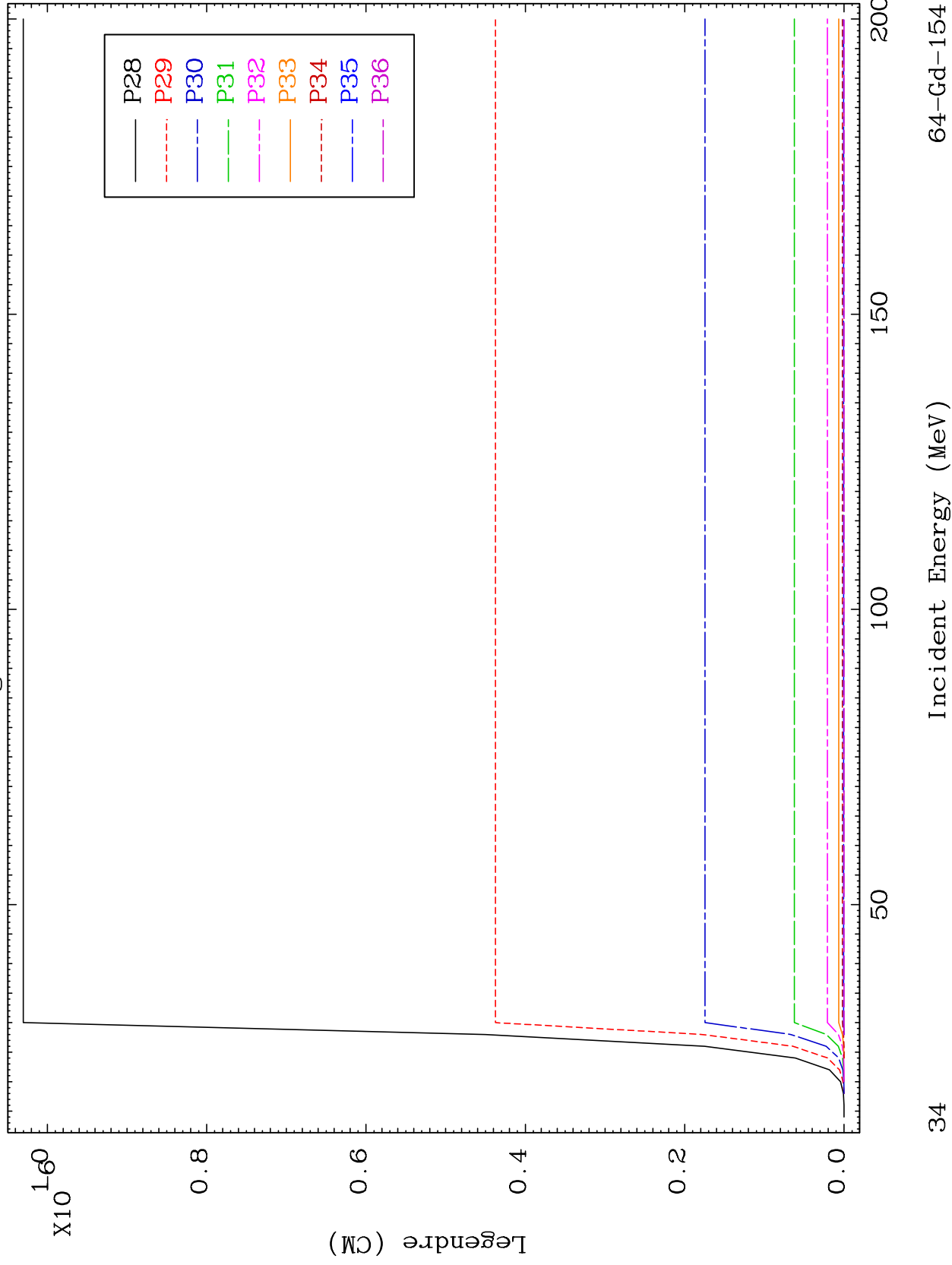
64-Gd-154



MAT 6431

717.7 keV (n,n') Level  
Legendre Coefficients

64-Gd-154



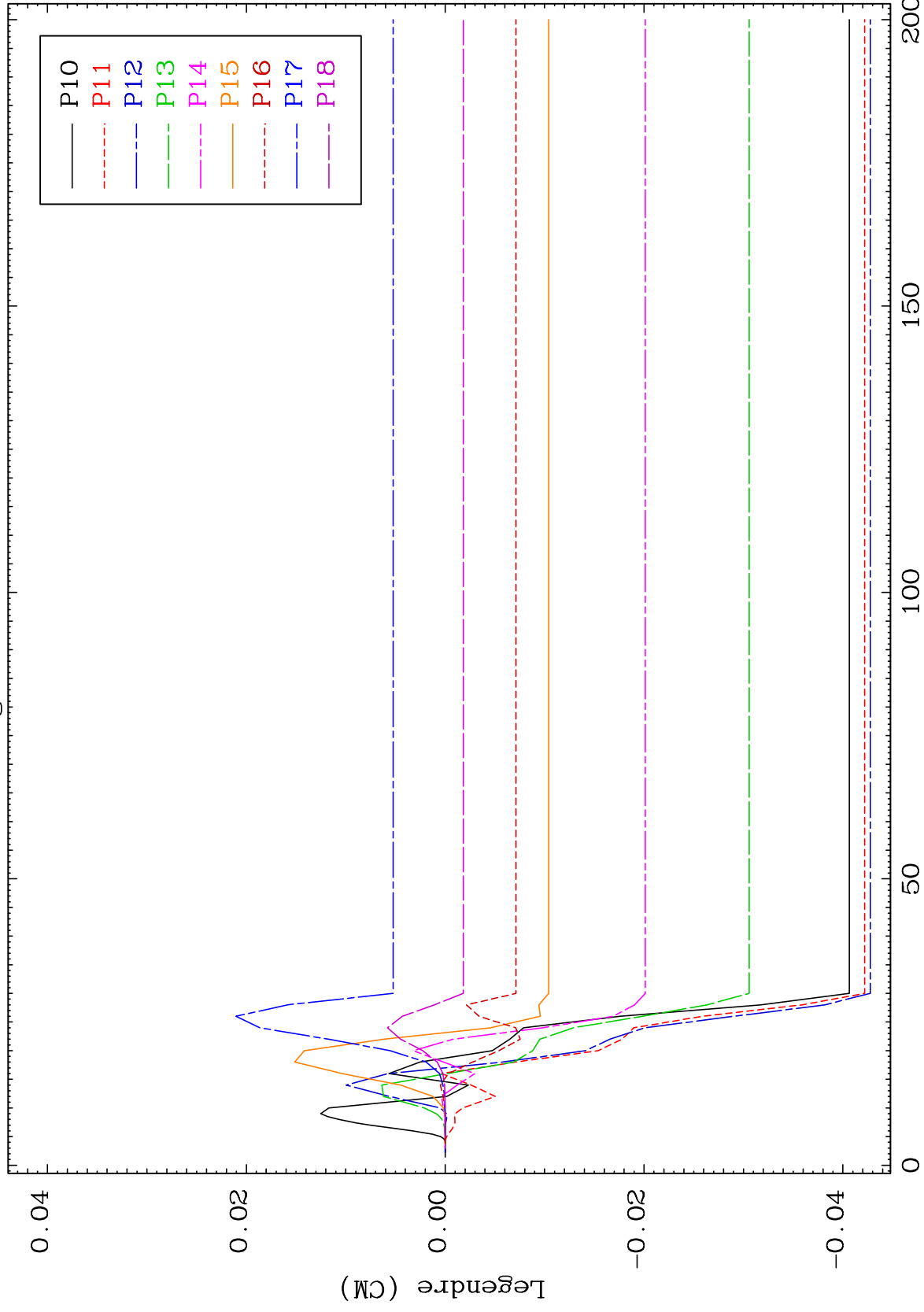
34



MAT 6431

815.5 keV (n,n') Level  
Legendre Coefficients

64-Gd-154



36

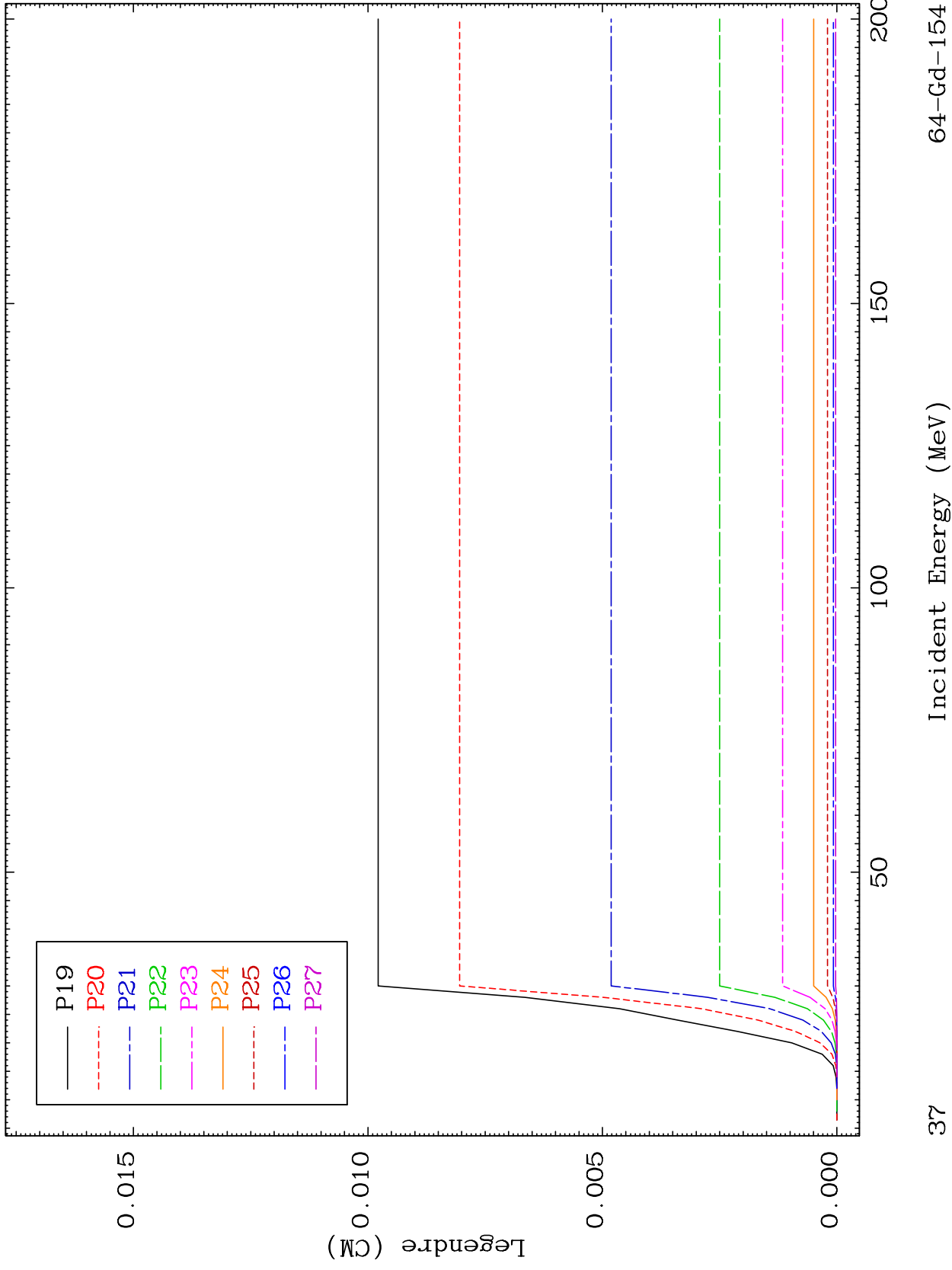
Incident Energy (MeV)

64-Gd-154

MAT 6431

815.5 keV (n,n') Level  
Legendre Coefficients

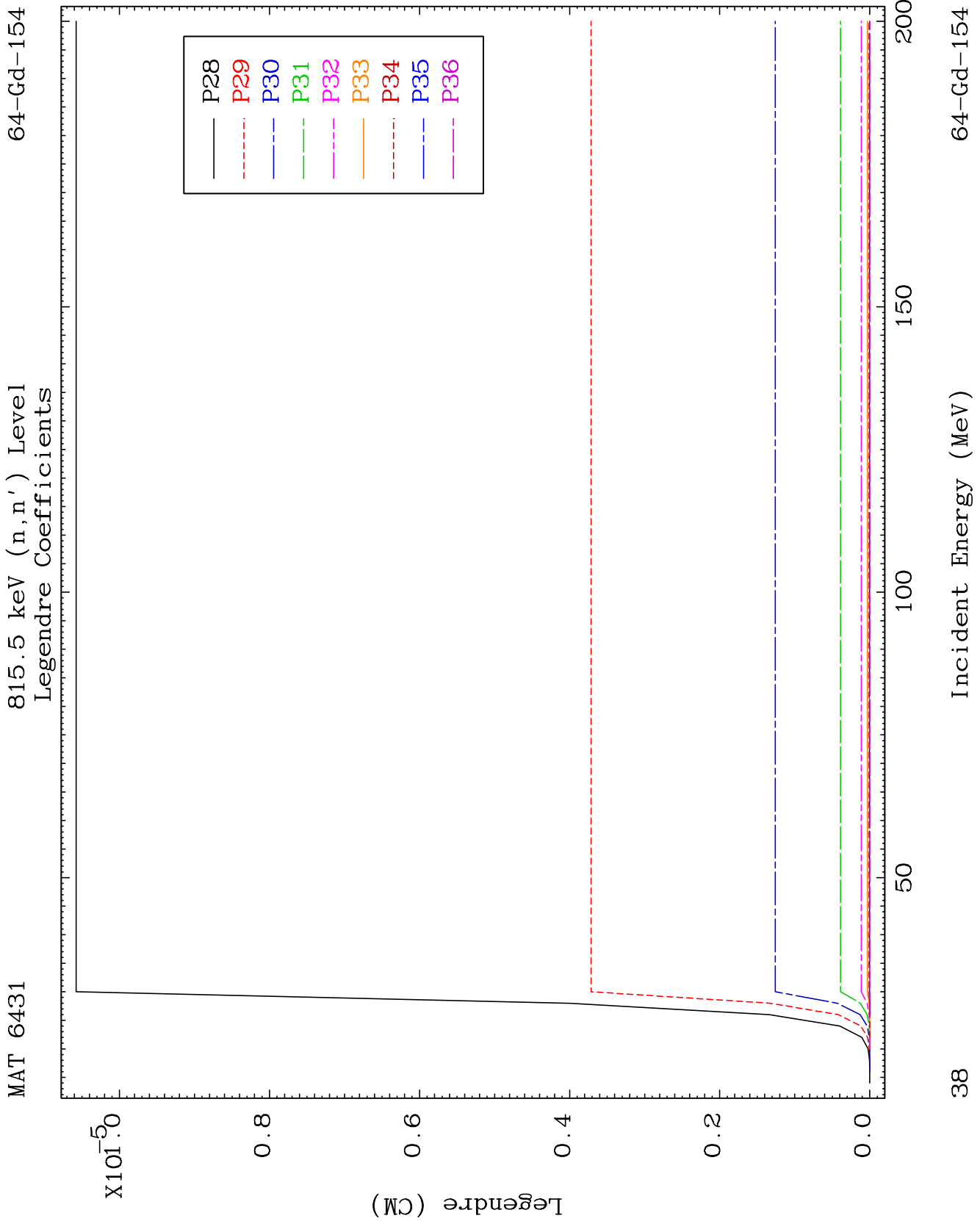
64-Gd-154



37

Incident Energy (MeV)

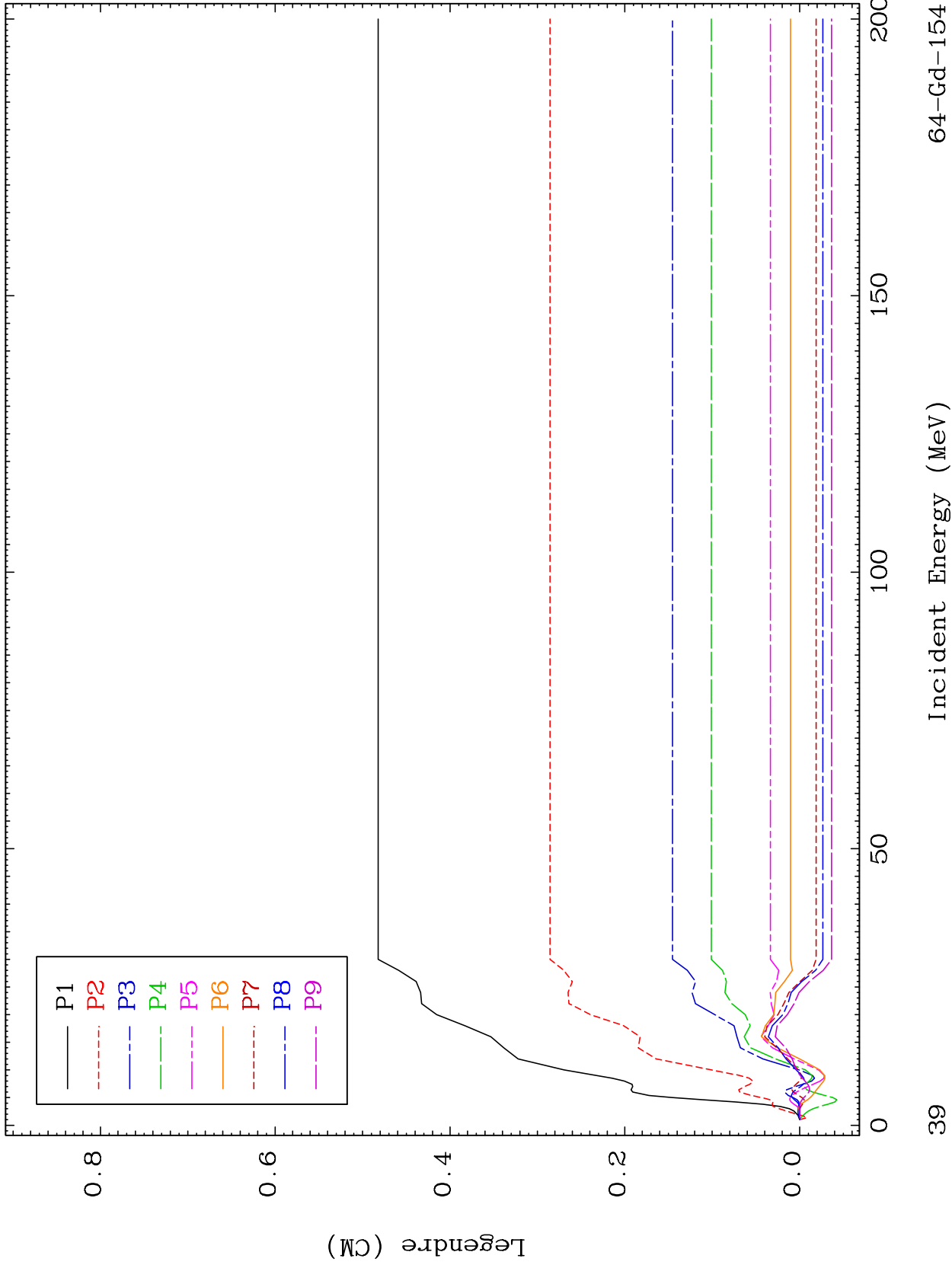
64-Gd-154



MAT 6431

996.3 keV (n,n') Level  
Legendre Coefficients

64-Gd-154

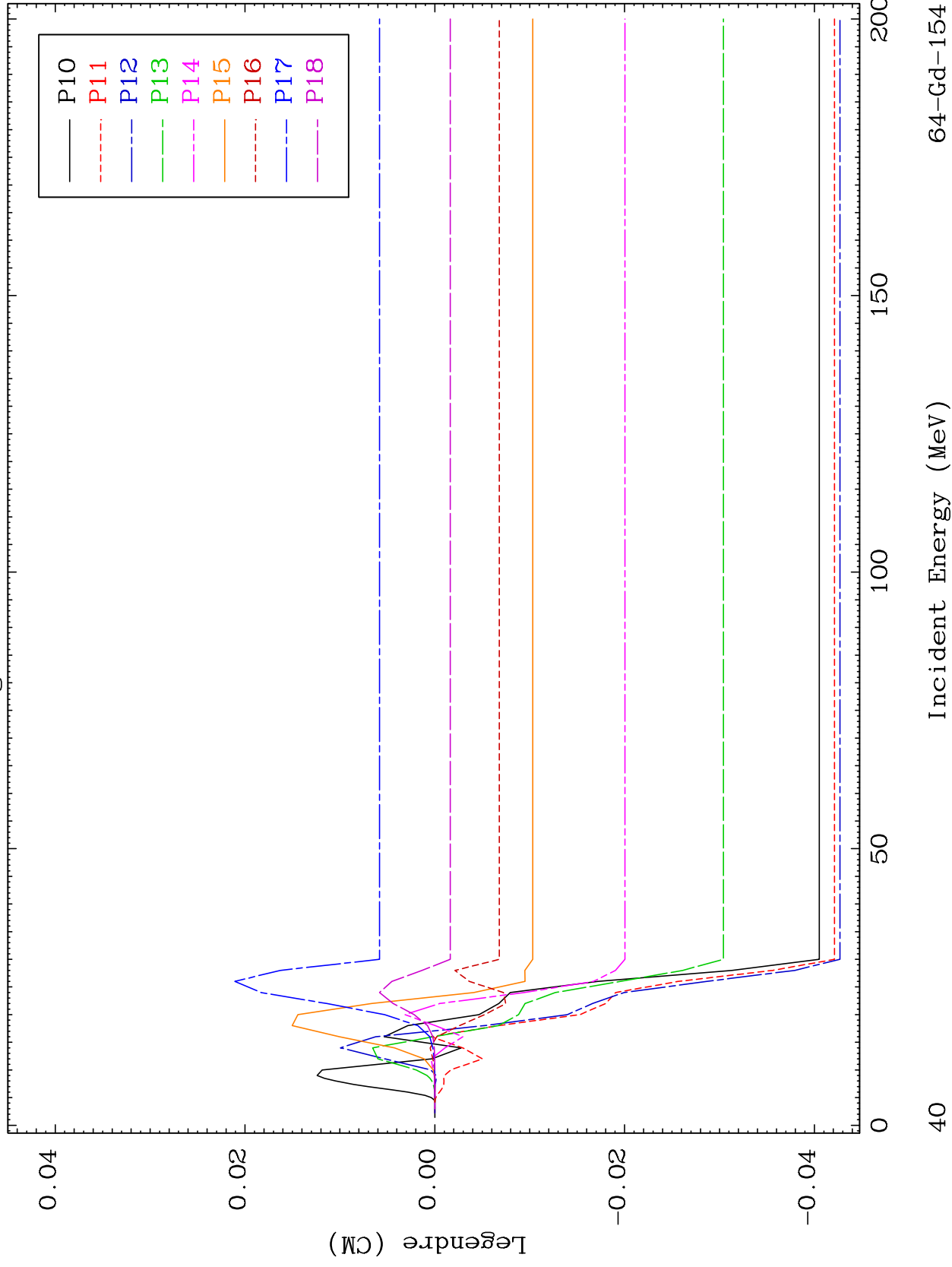




MAT 6431

996.3 keV (n,n') Level  
Legendre Coefficients

64-Gd-154



64-Gd-154

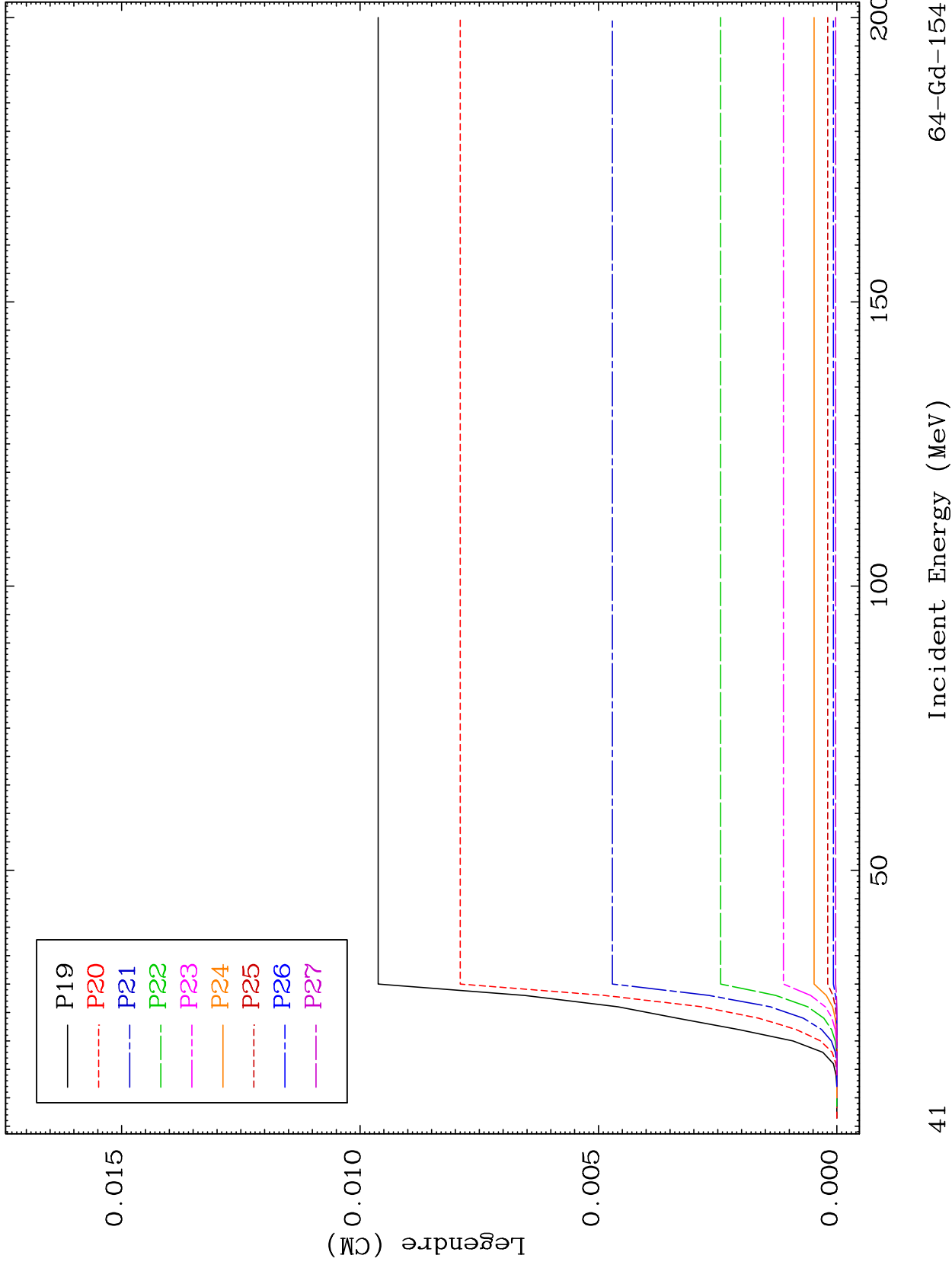
Incident Energy (MeV)

40

MAT 6431

996.3 keV (n,n') Level  
Legendre Coefficients

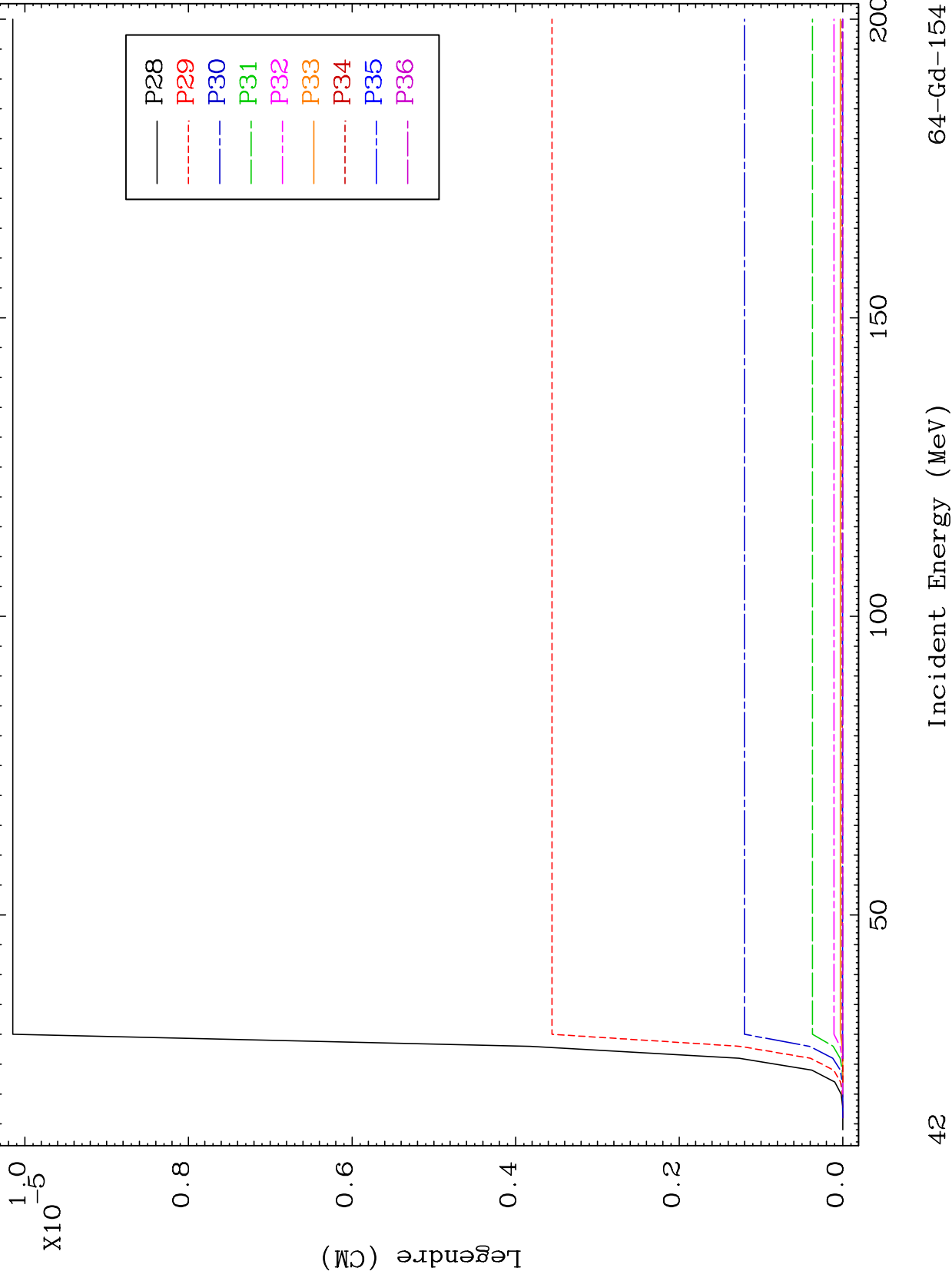
64-Gd-154



MAT 6431

996.3 keV (n,n') Level  
Legendre Coefficients

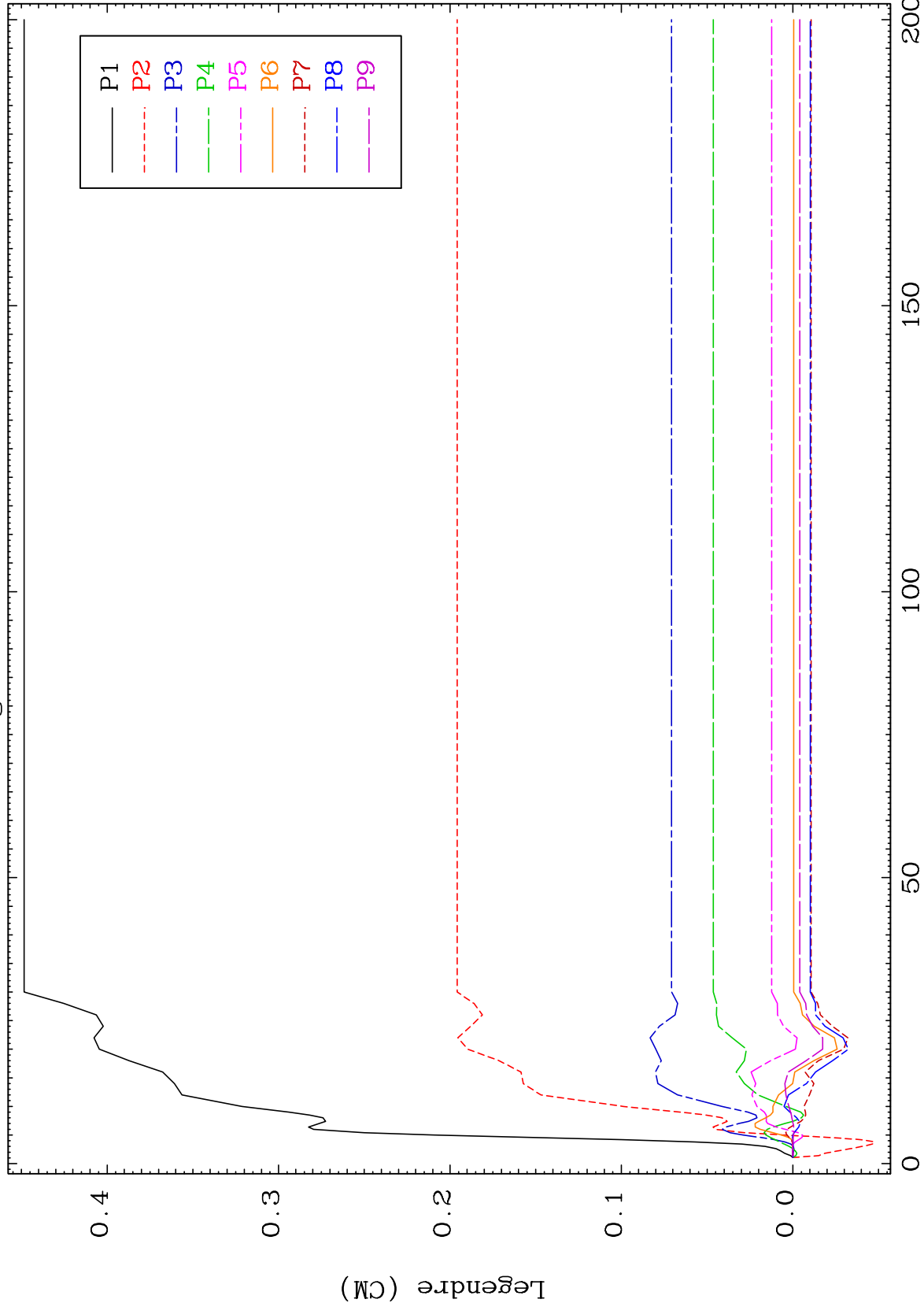
64-Gd-154



MAT 6431

1.048 MeV (n,n') Level  
Legendre Coefficients

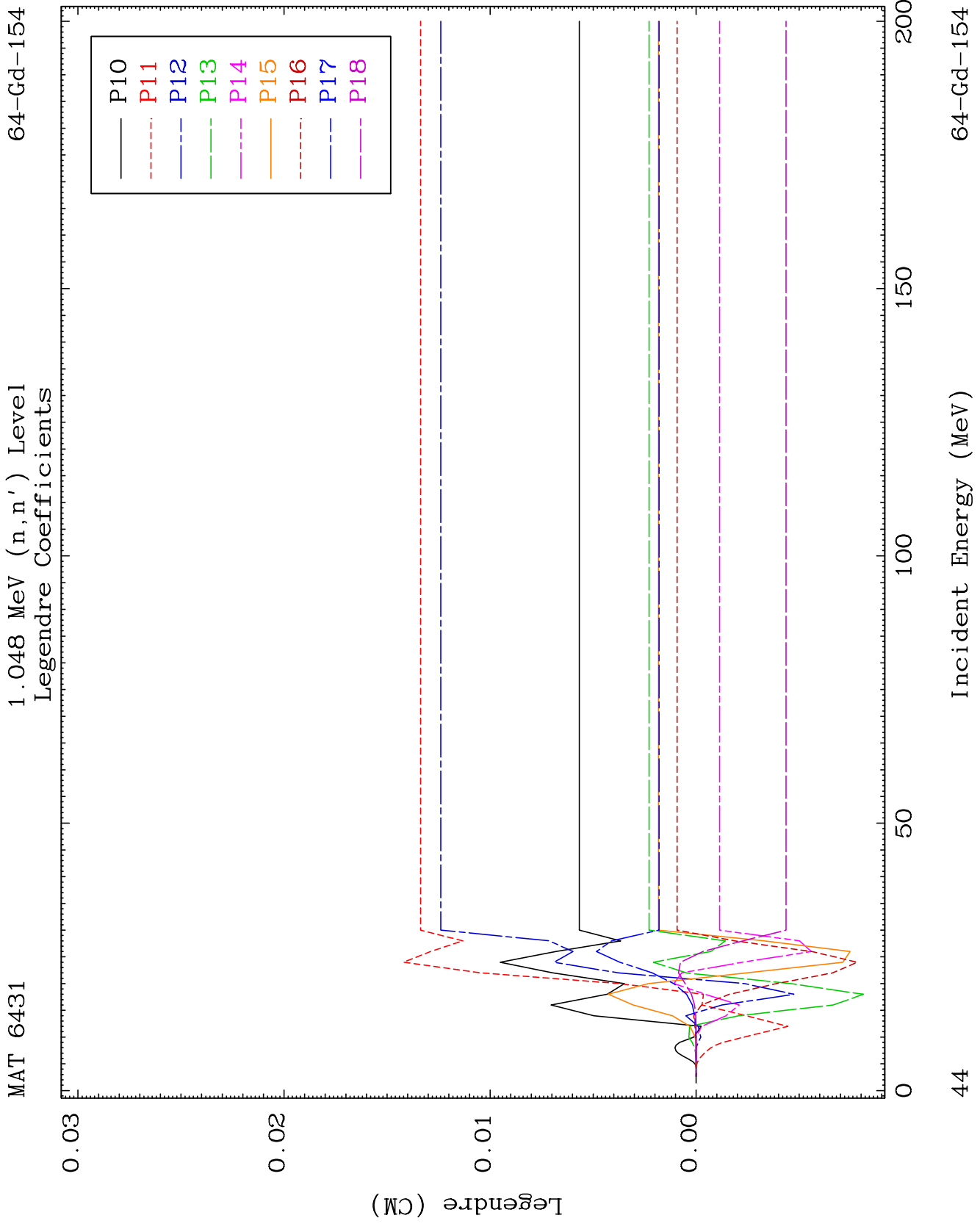
64-Gd-154



43

Incident Energy (MeV)

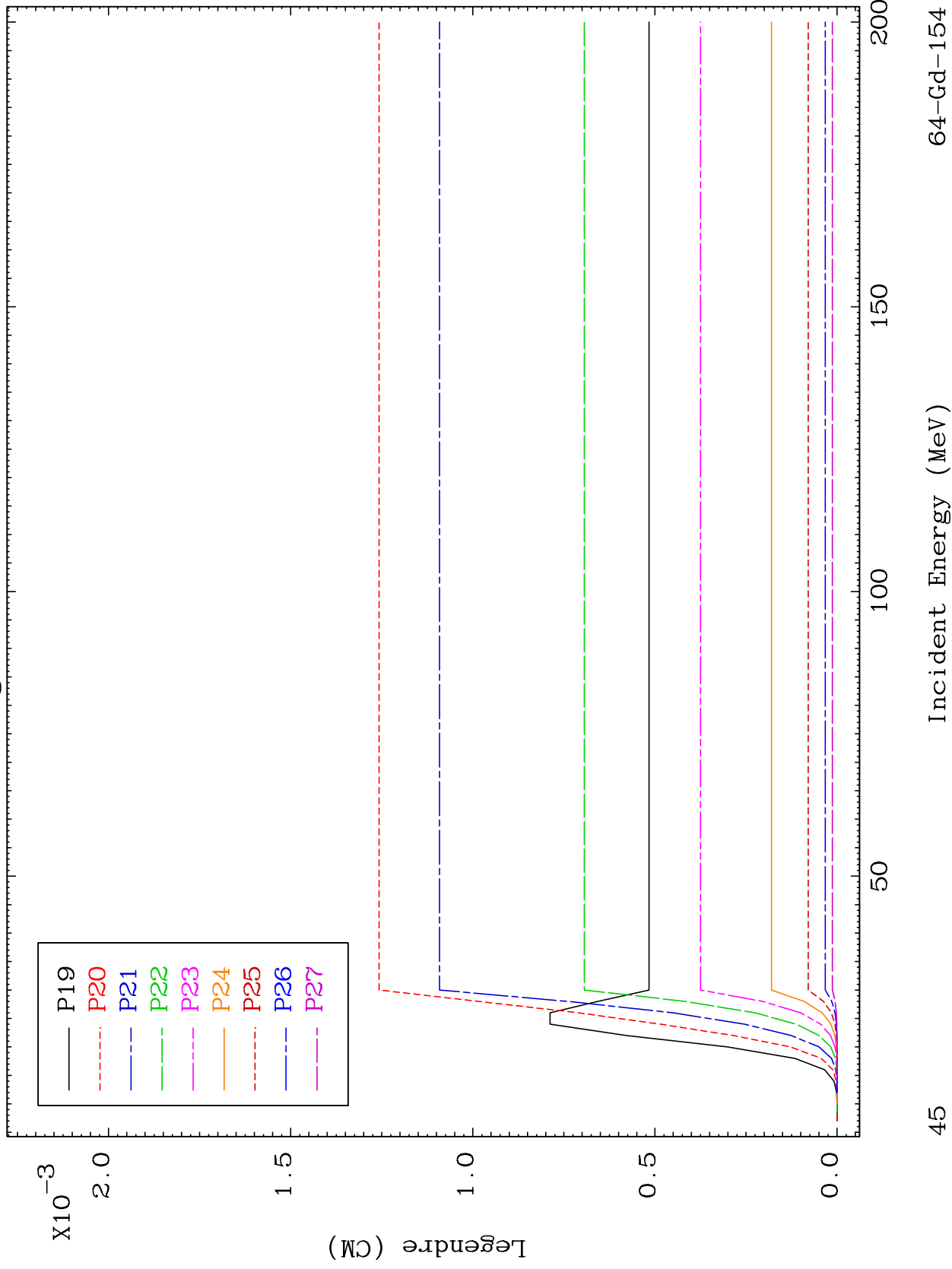
64-Gd-154



MAT 6431

1.048 MeV (n,n') Level  
Legendre Coefficients

64-Gd-154



45

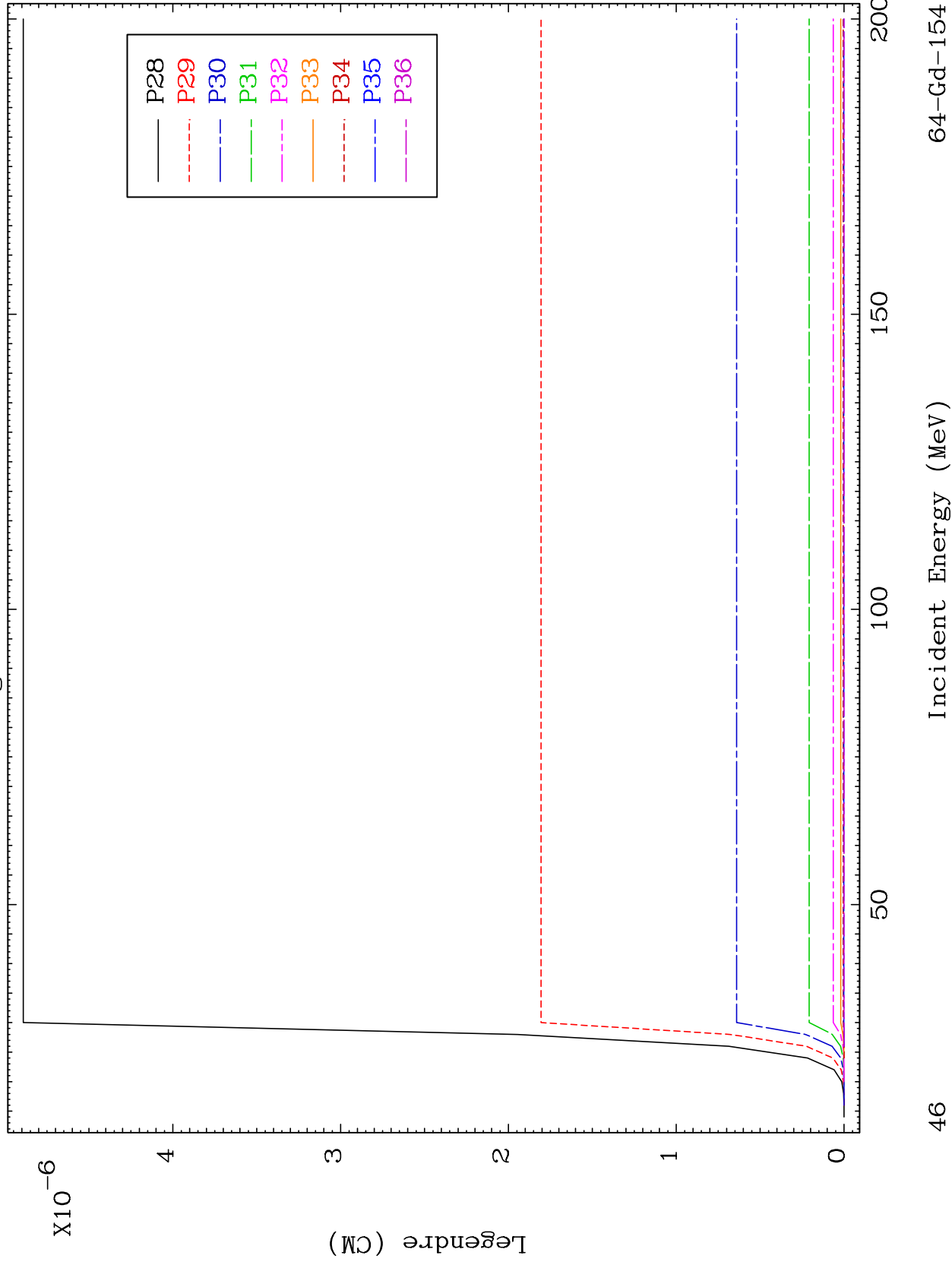
Incident Energy (MeV)

64-Gd-154

MAT 6431

1.048 MeV (n, n') Level  
Legendre Coefficients

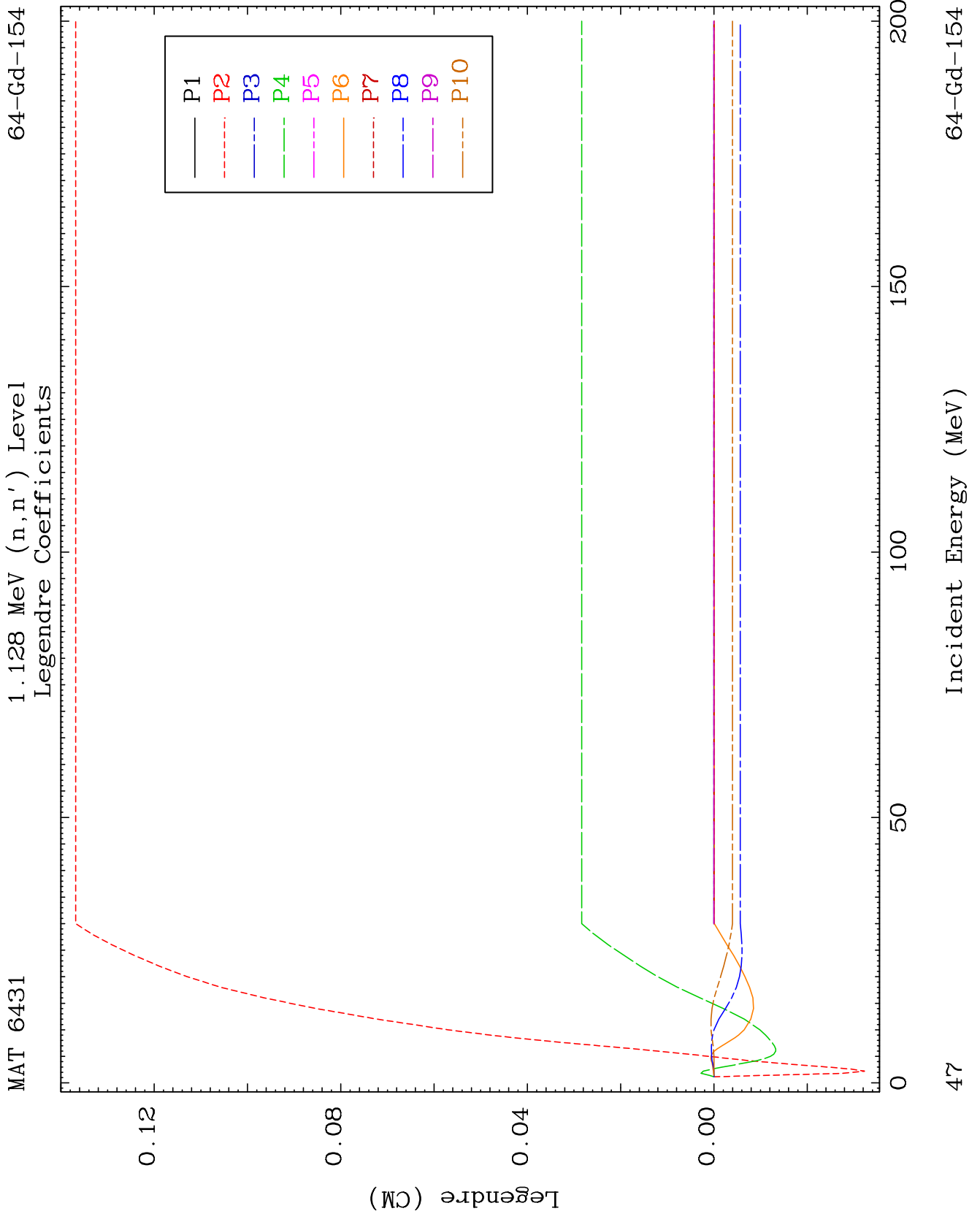
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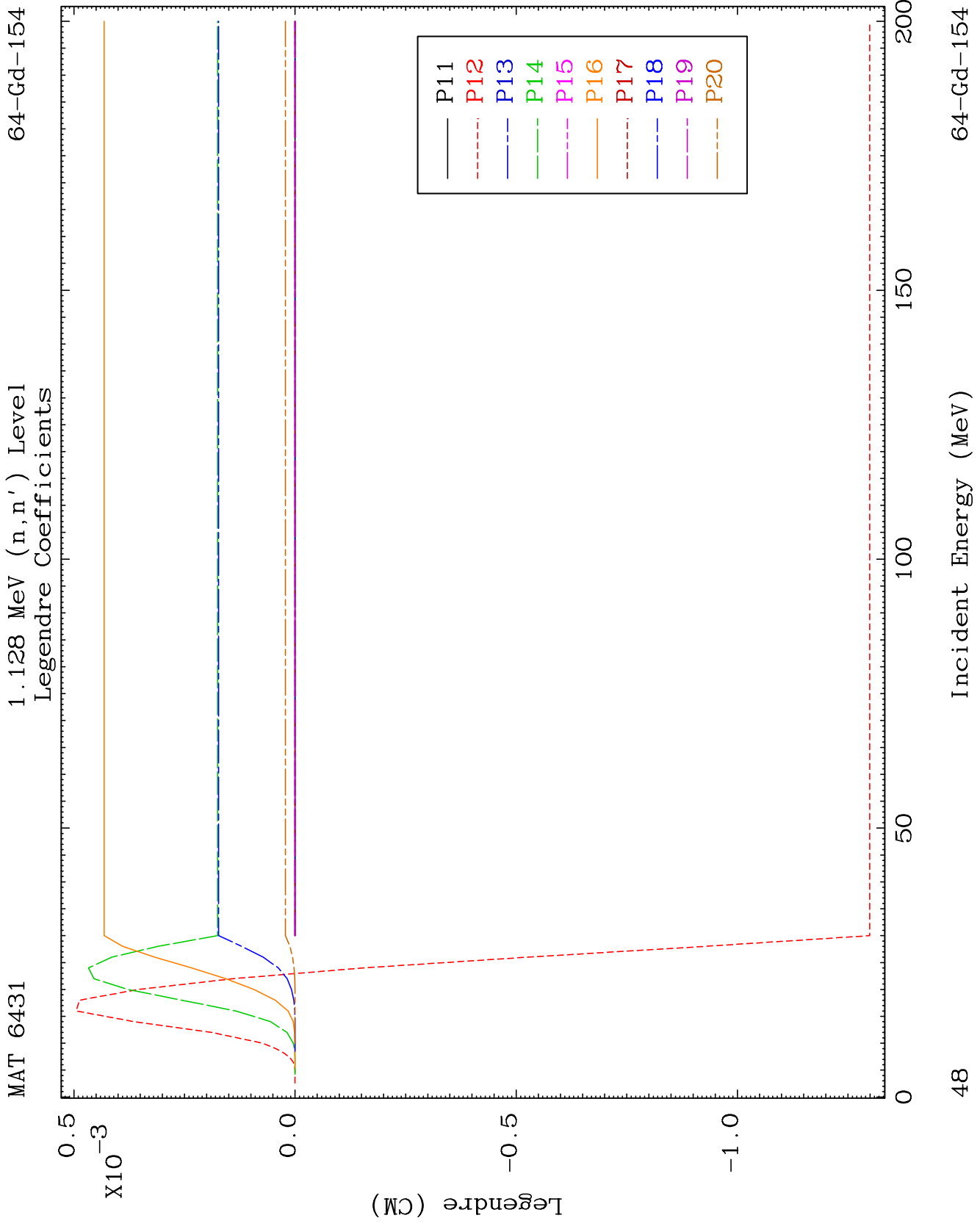
46

Incident Energy (MeV)

64-Gd-154





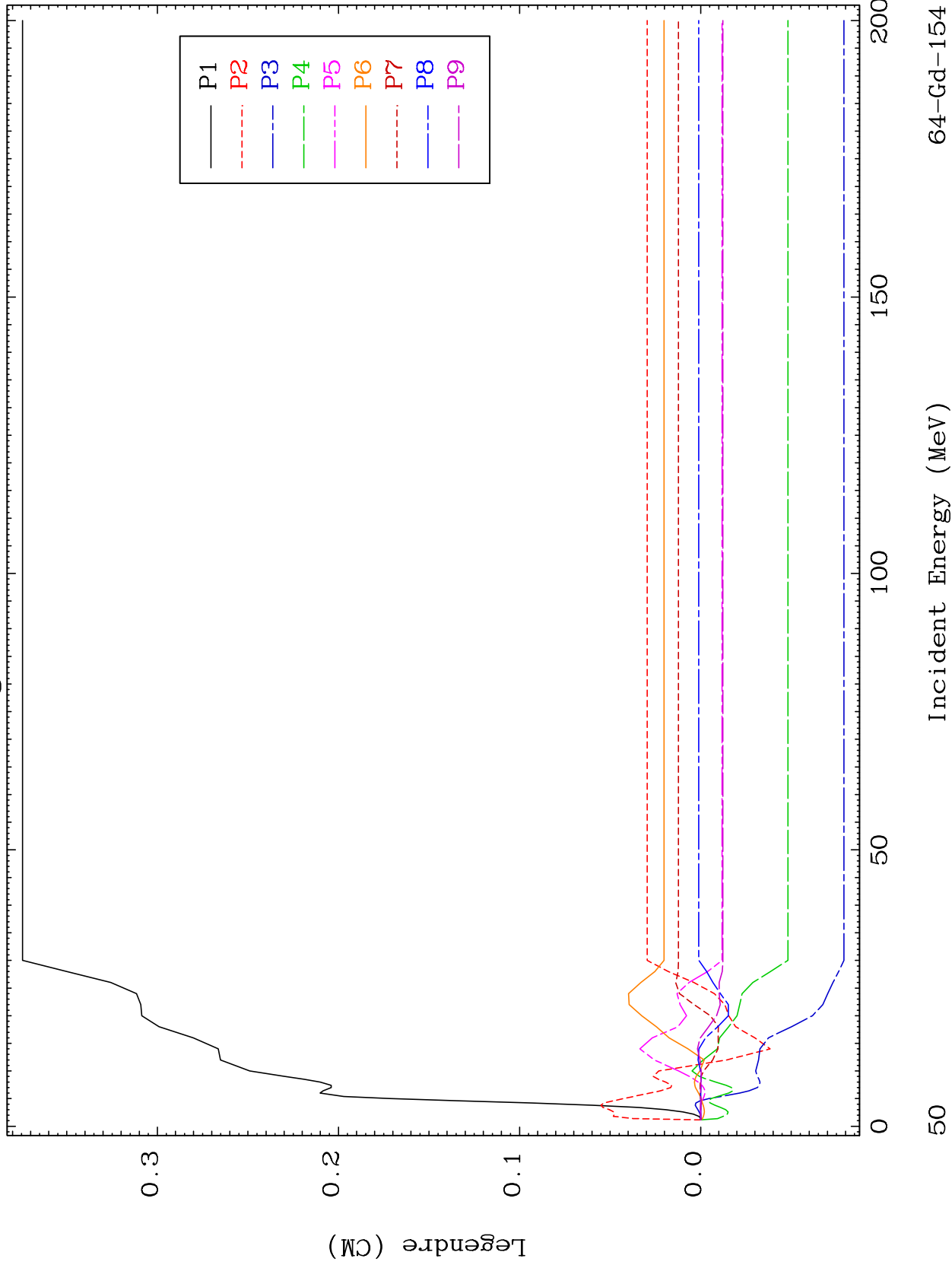




MAT 6431

1.144 MeV (n,n') Level  
Legendre Coefficients

64-Gd-154

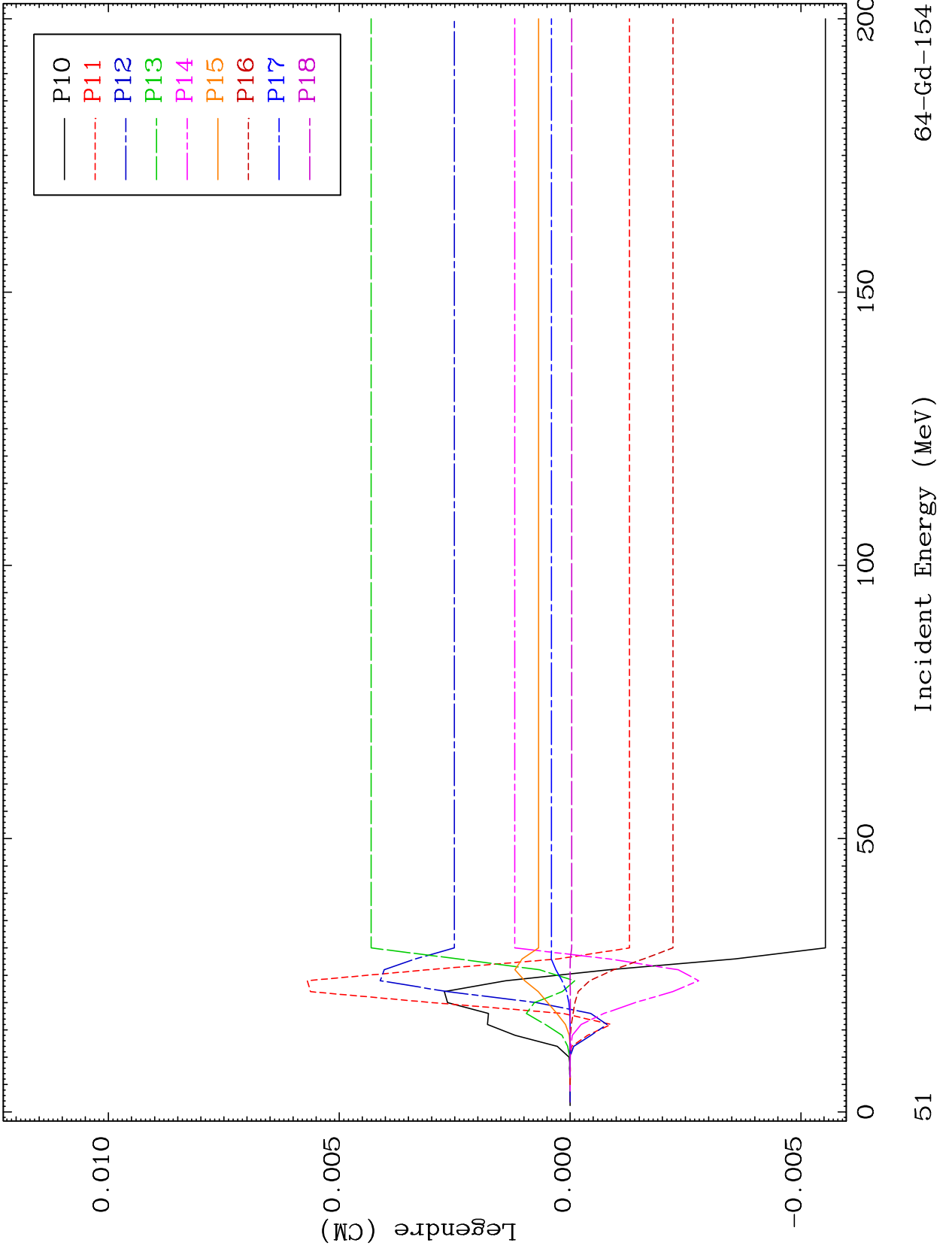


64-Gd-154

MAT 6431

1.144 MeV (n,n') Level  
Legendre Coefficients

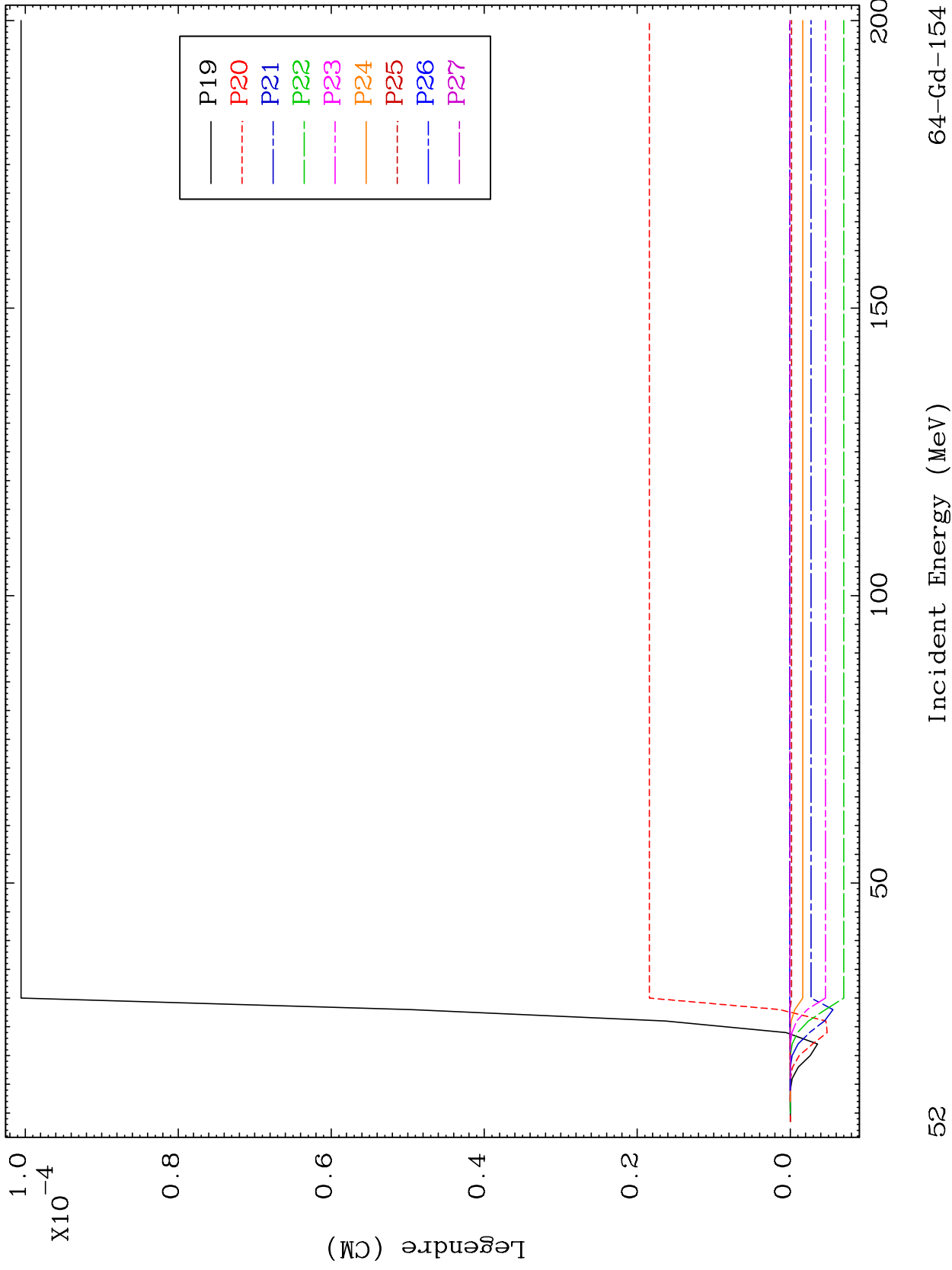
64-Gd-154



51

Incident Energy (MeV)

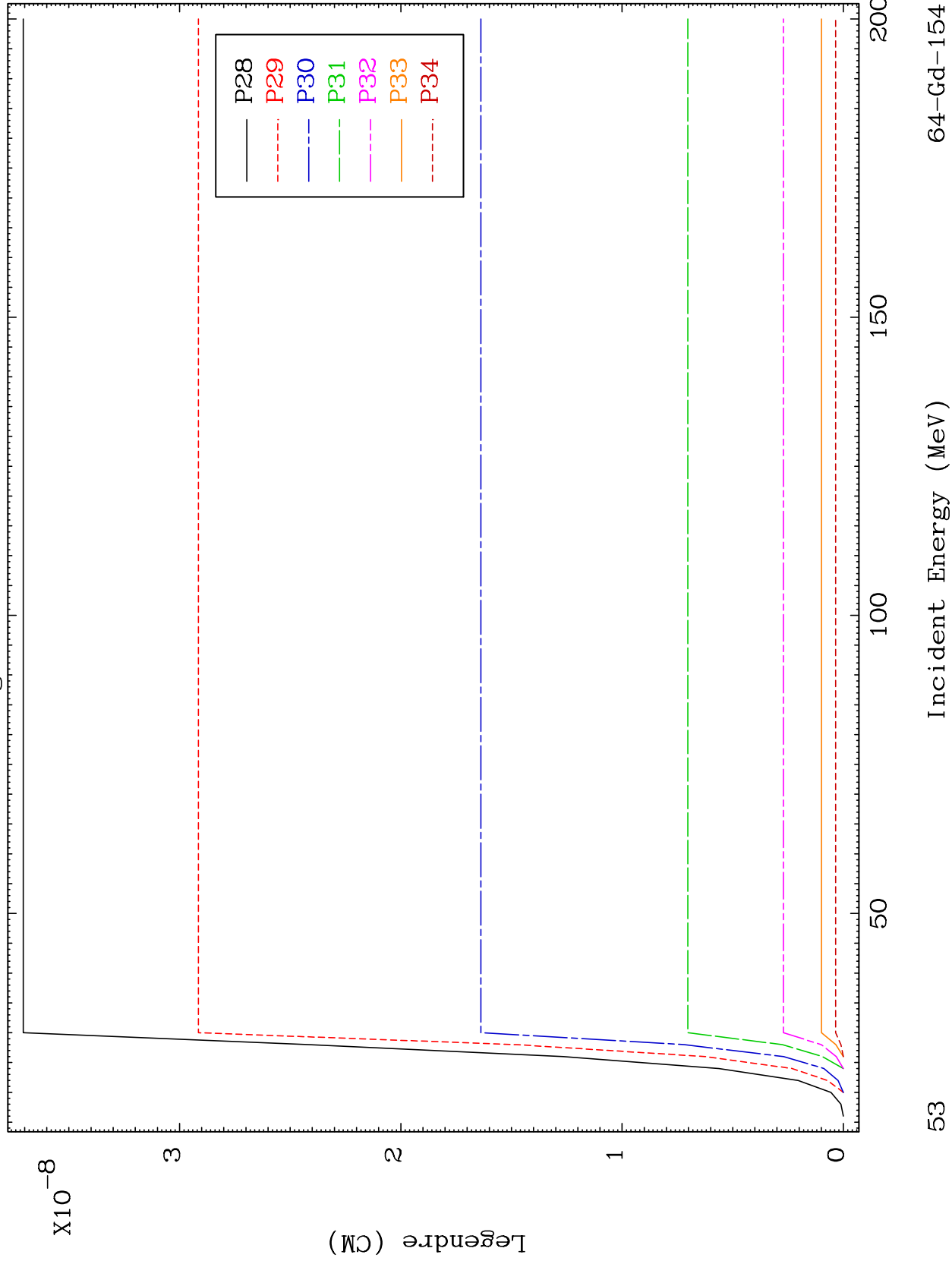
64-Gd-154

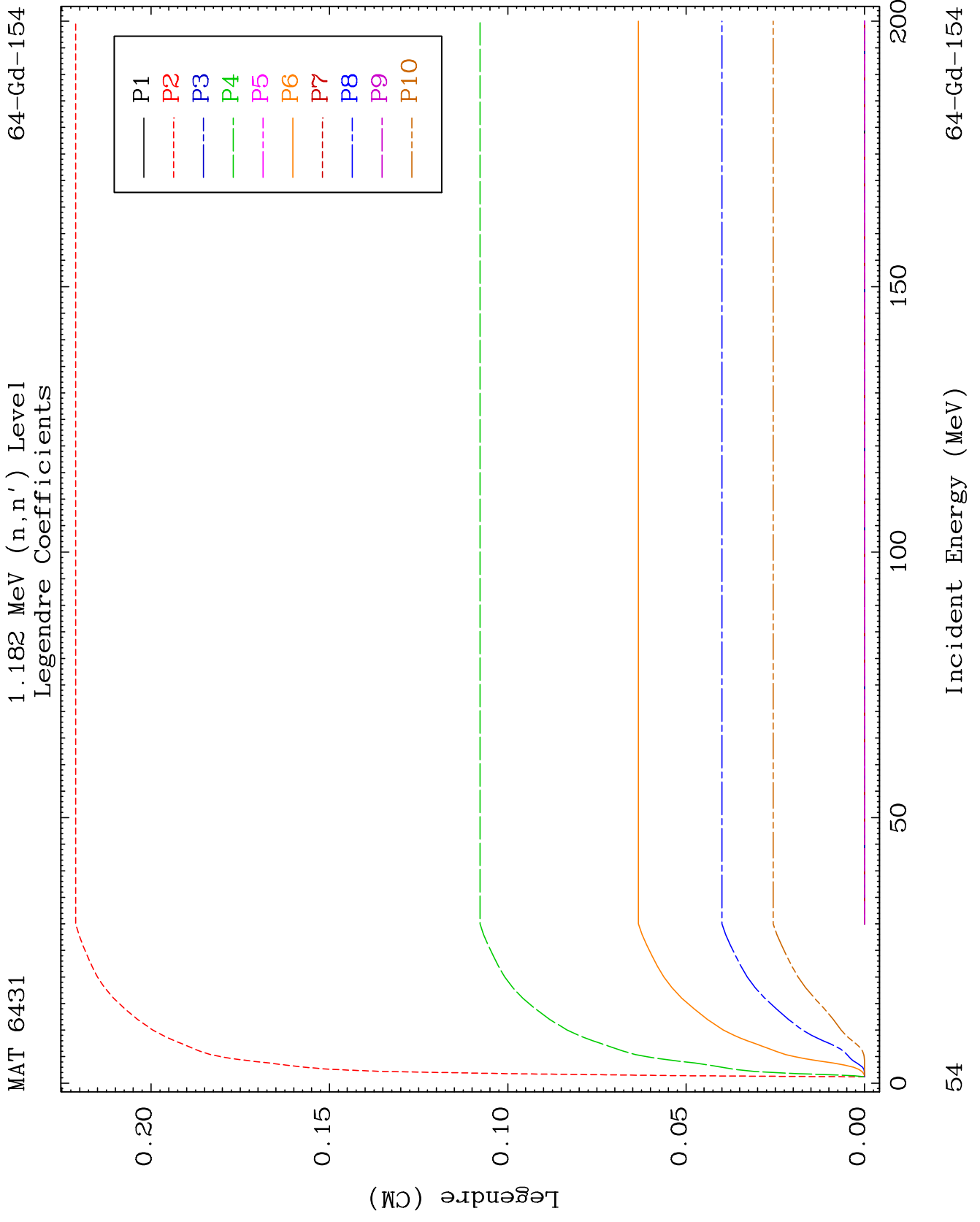


MAT 6431

1.144 MeV (n, n') Level  
Legendre Coefficients

64-Gd-154

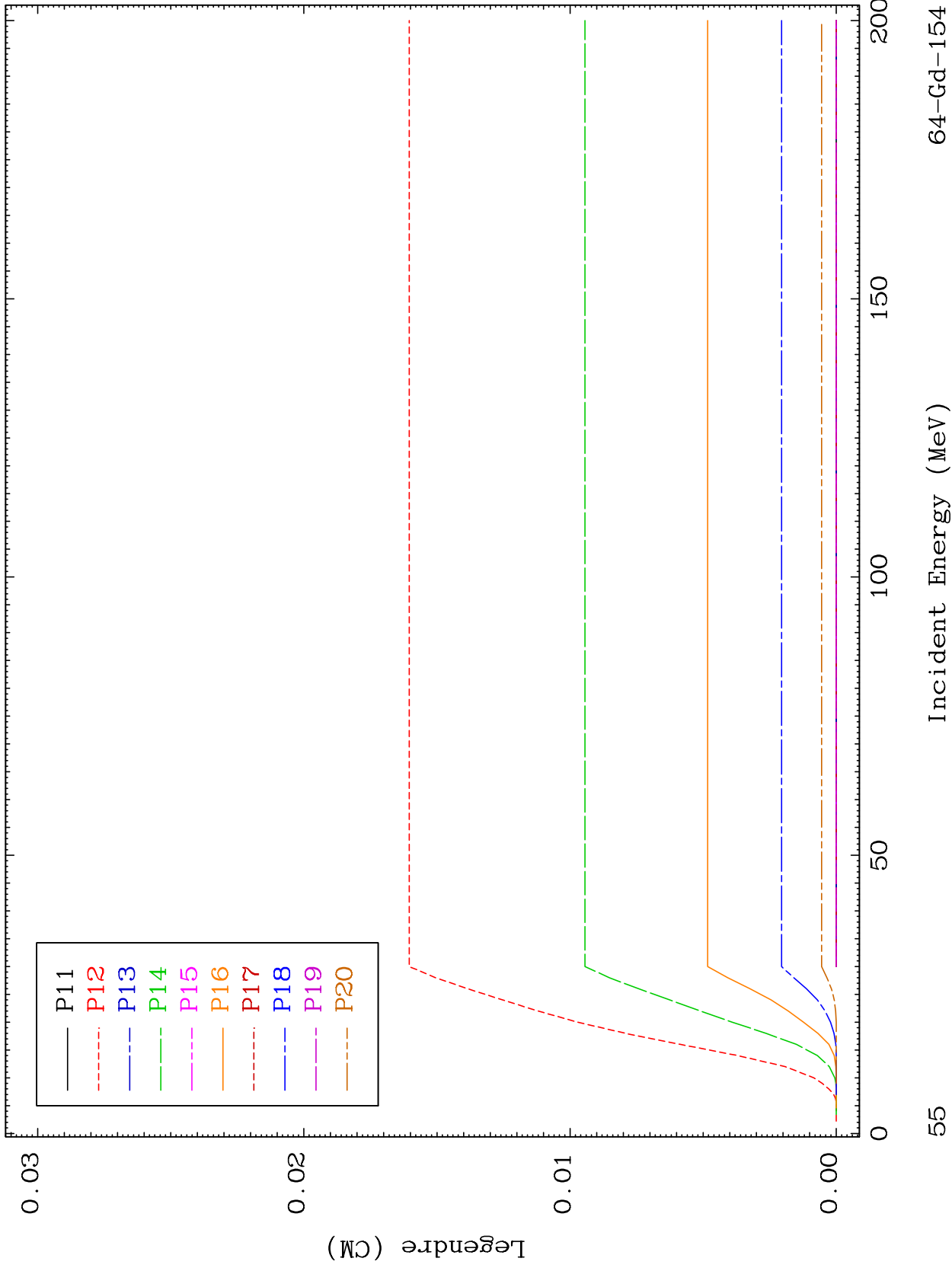




MAT 6431

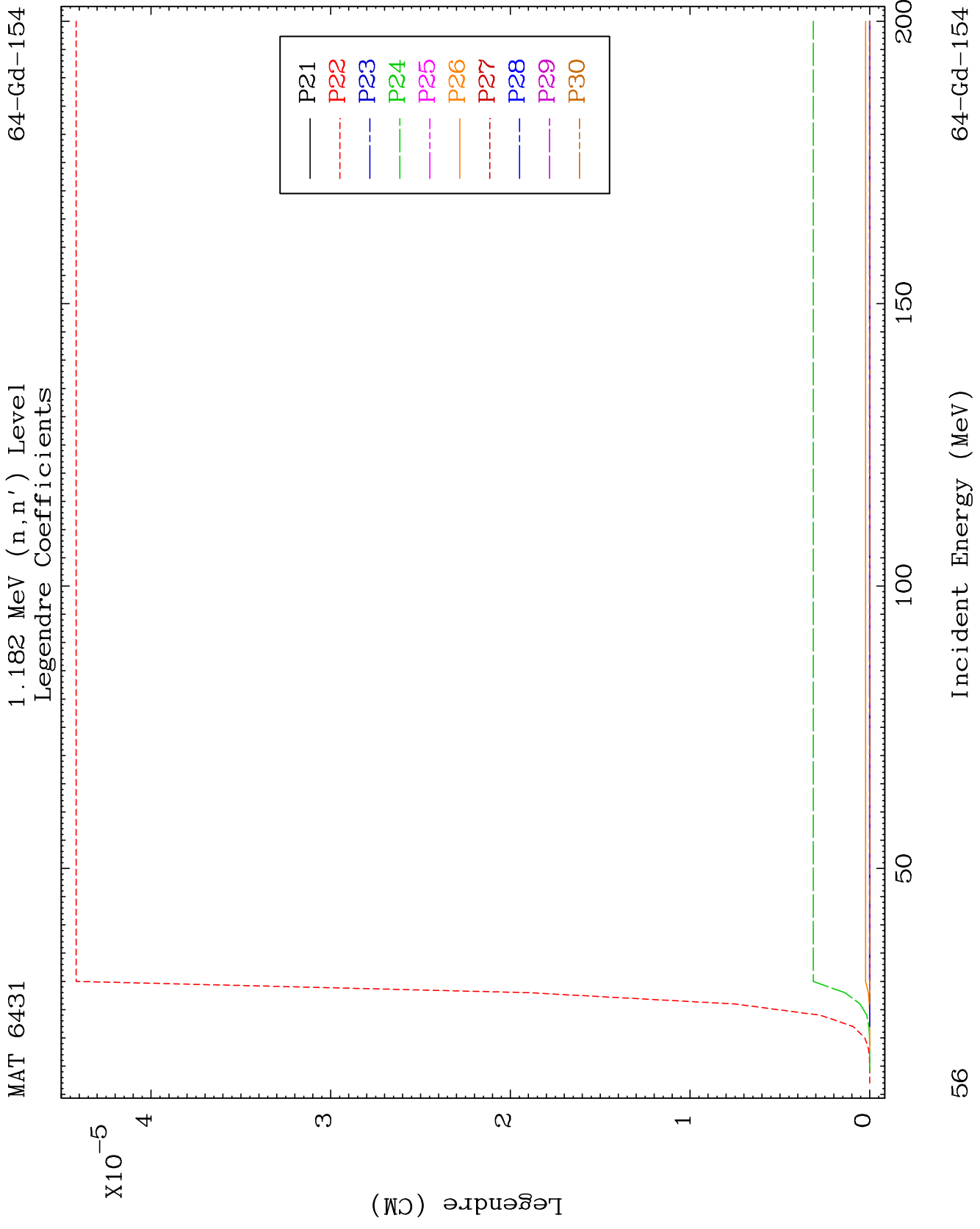
1.182 MeV (n,n') Level  
Legendre Coefficients

64-Gd-154



55

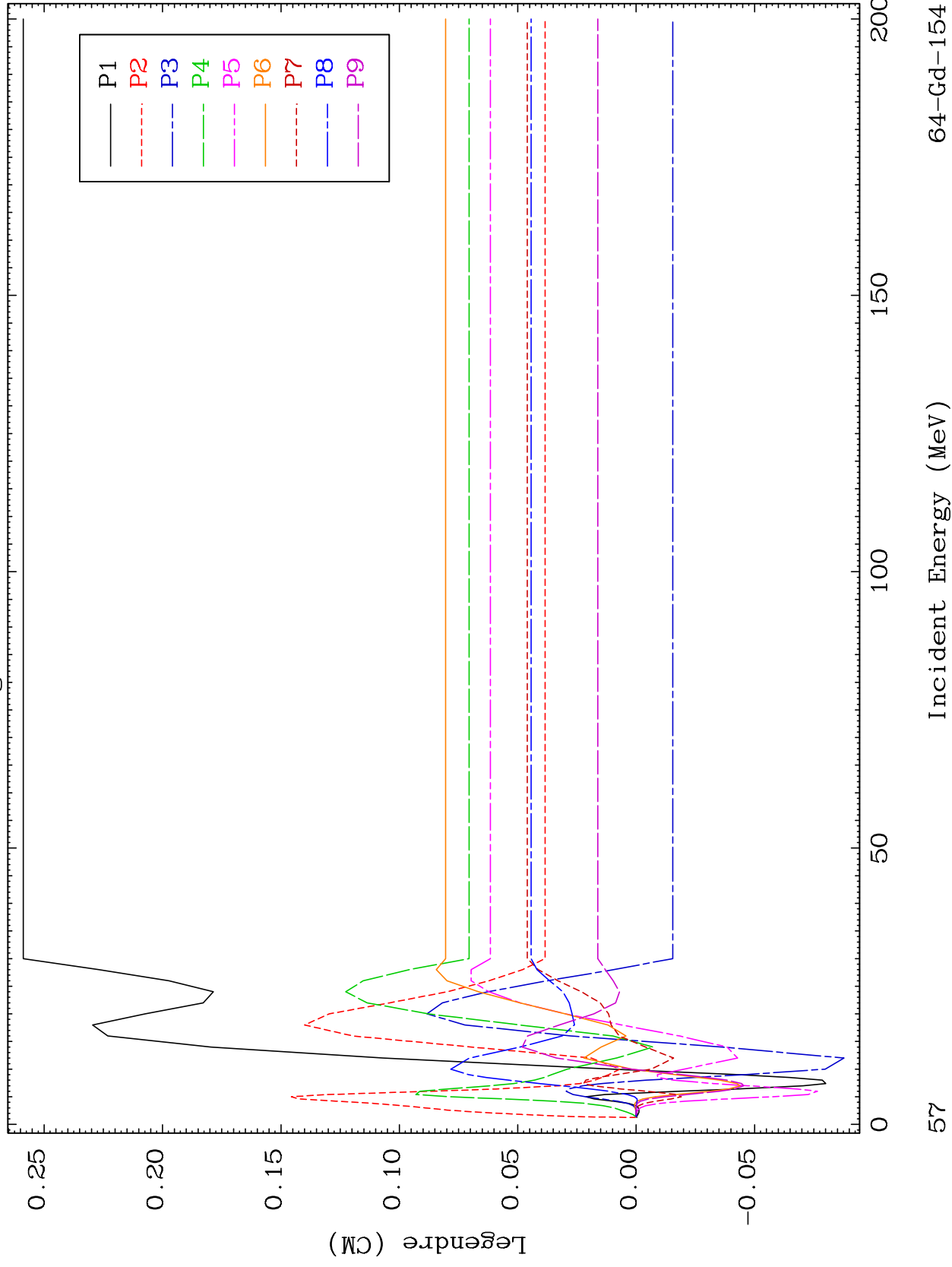




MAT 6431

1.241 MeV (n,n') Level  
Legendre Coefficients

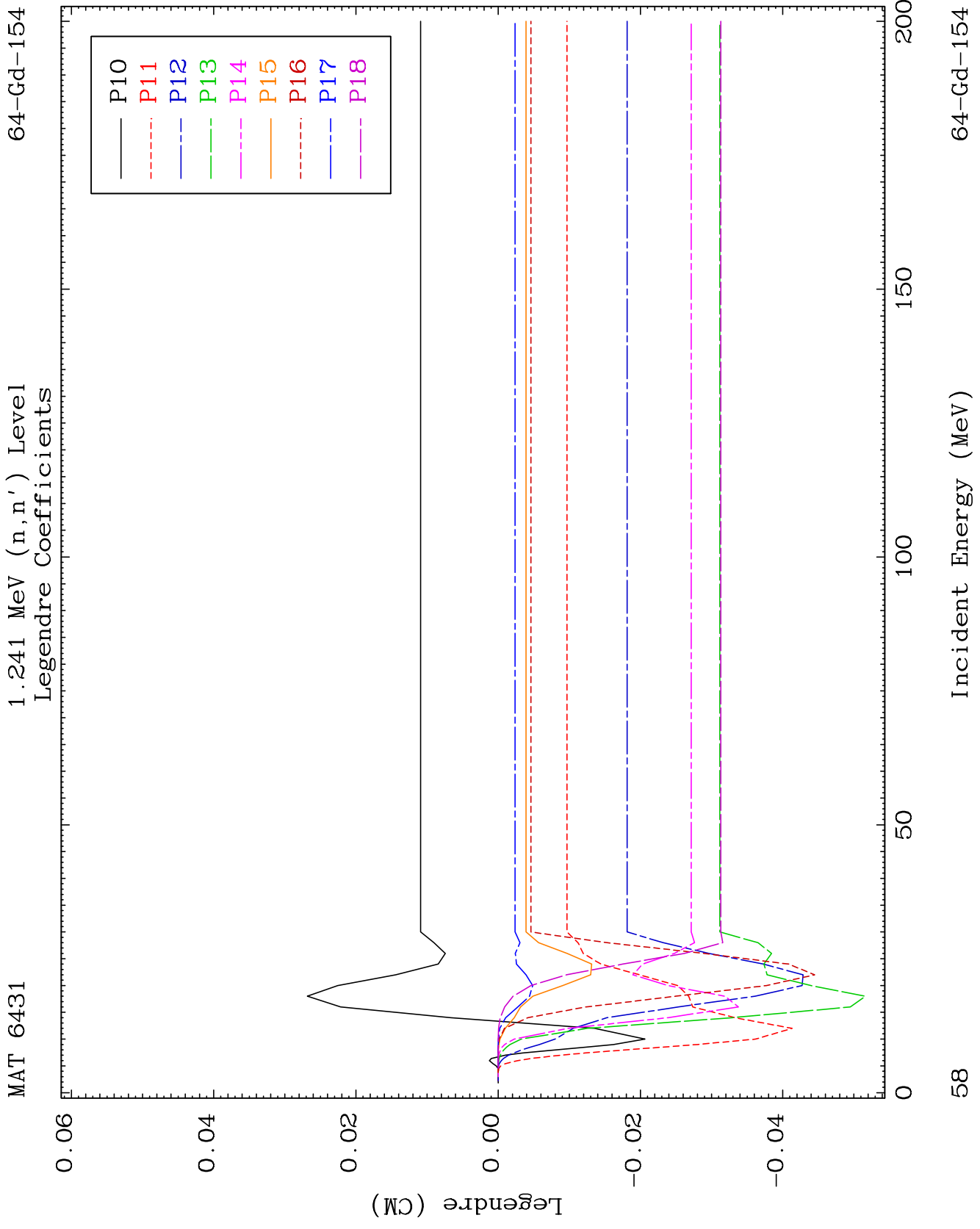
64-Gd-154

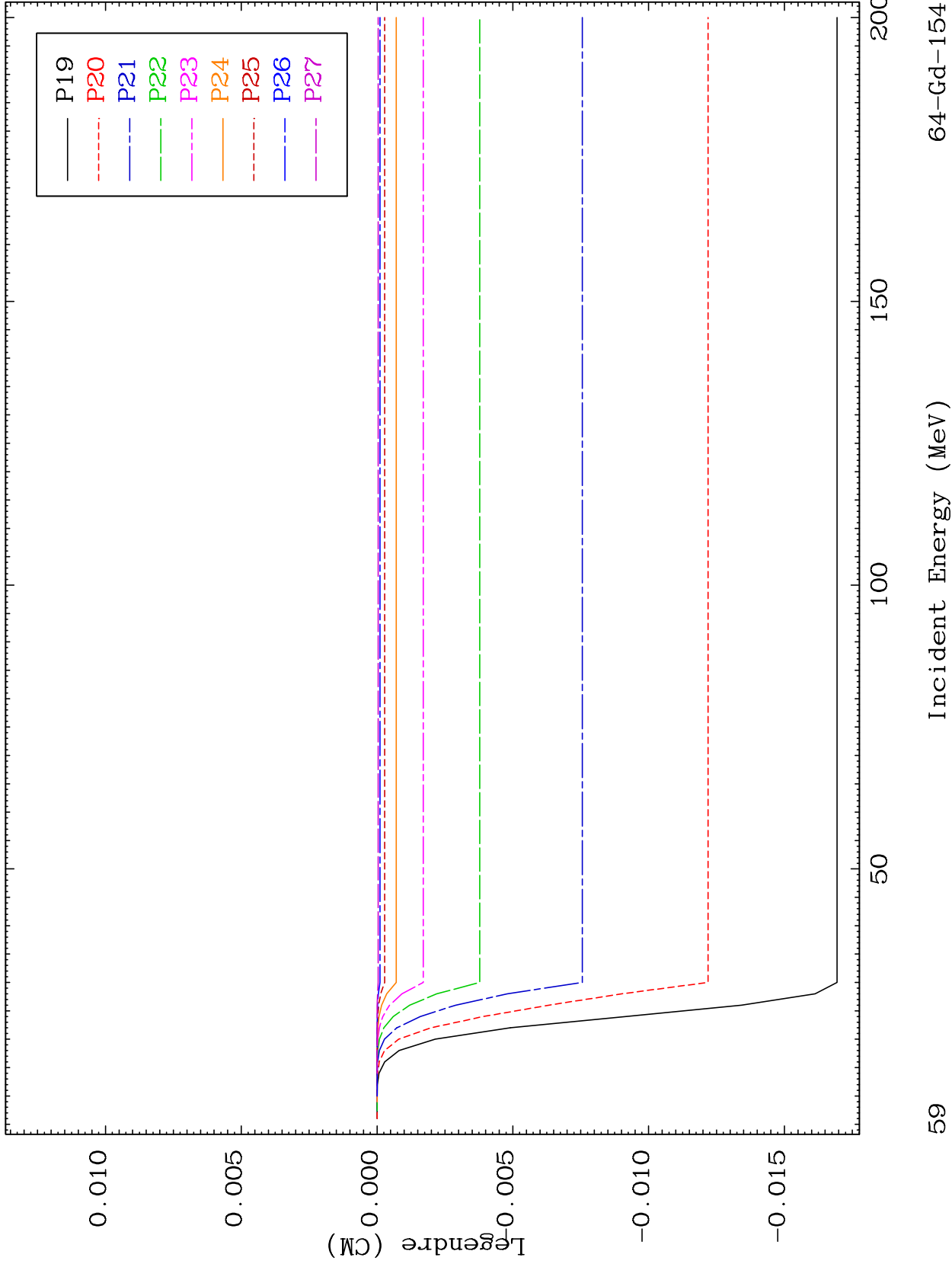


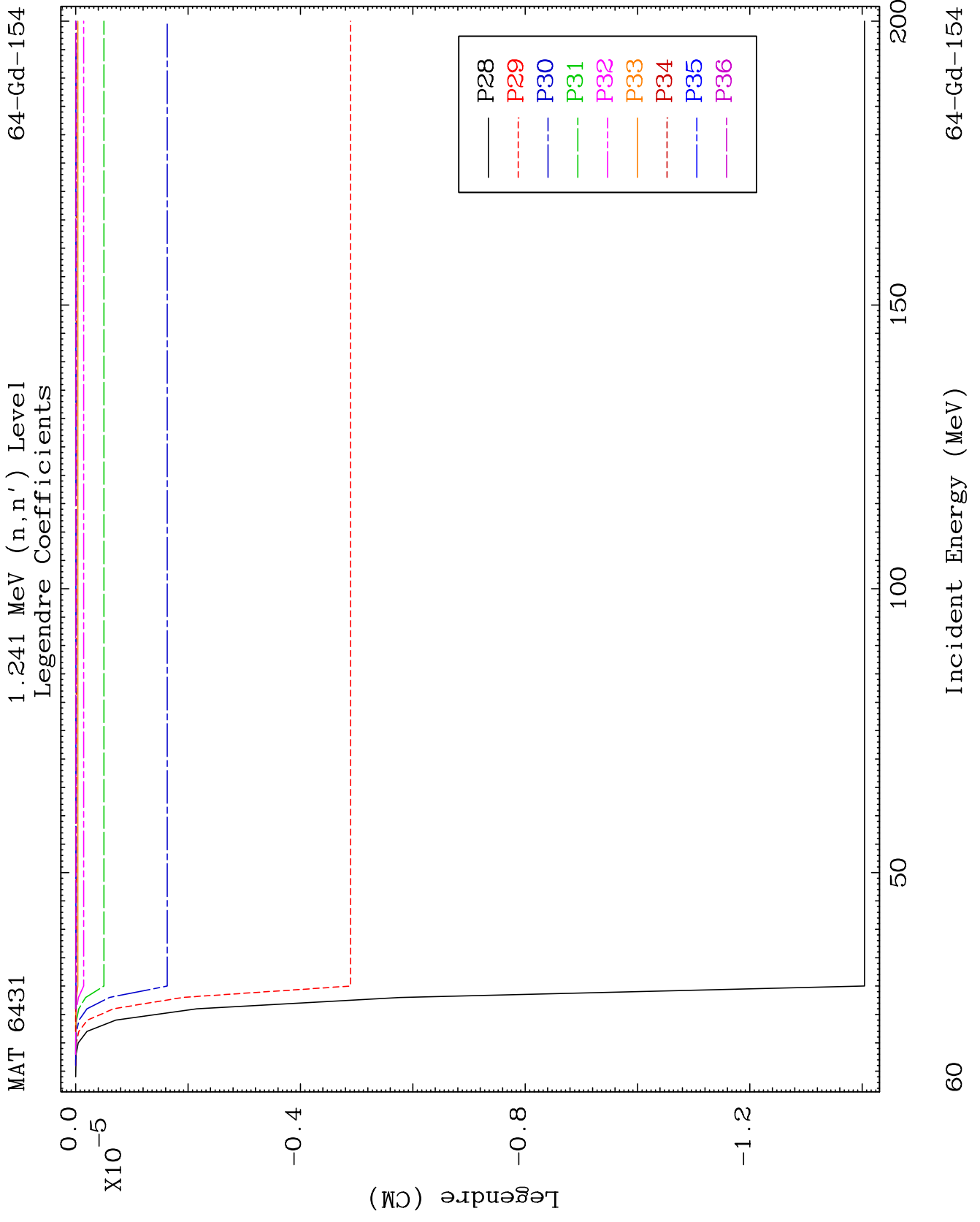
57

Incident Energy (MeV)

64-Gd-154



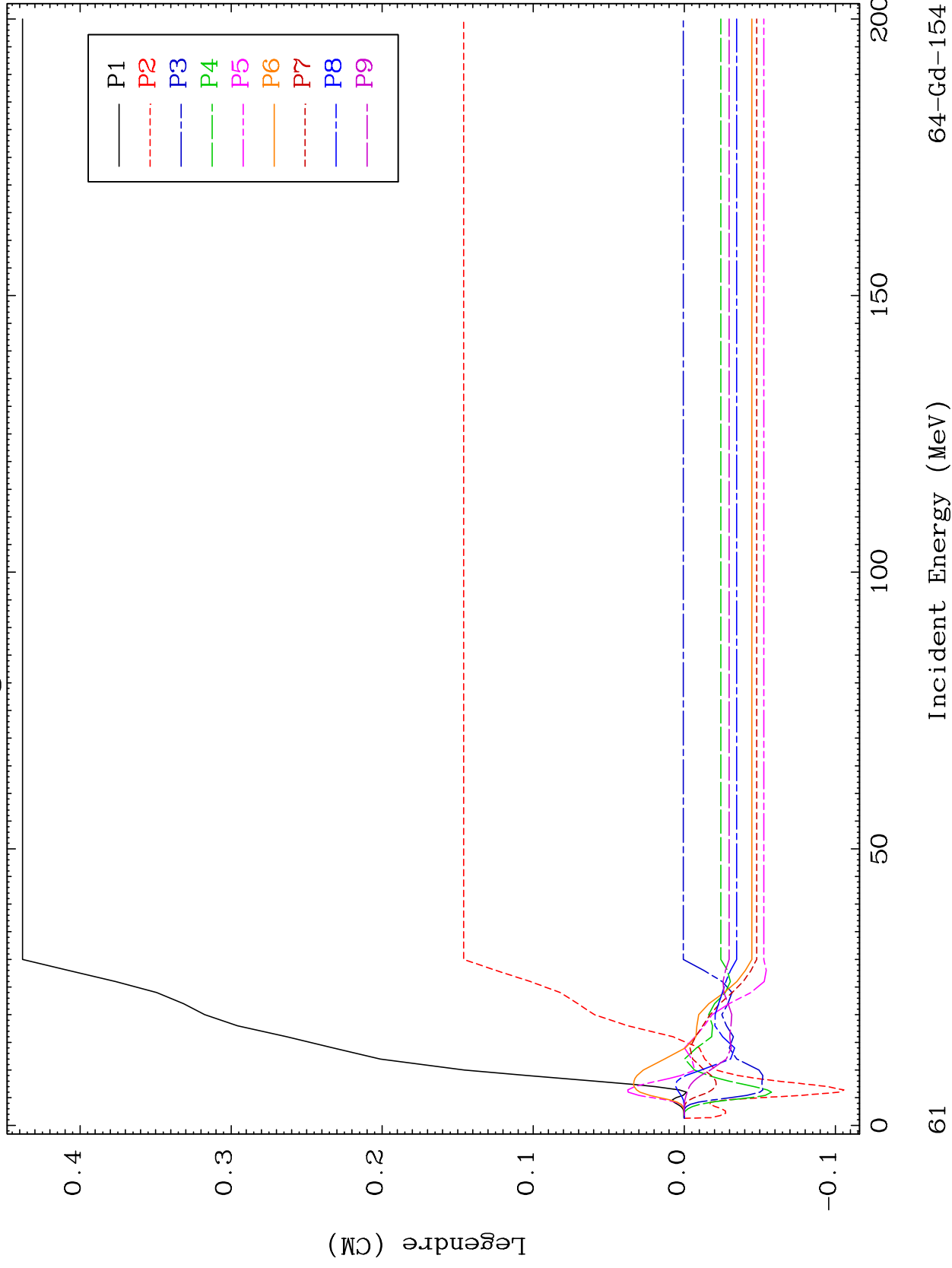




MAT 6431

1.252 MeV (n,n') Level  
Legendre Coefficients

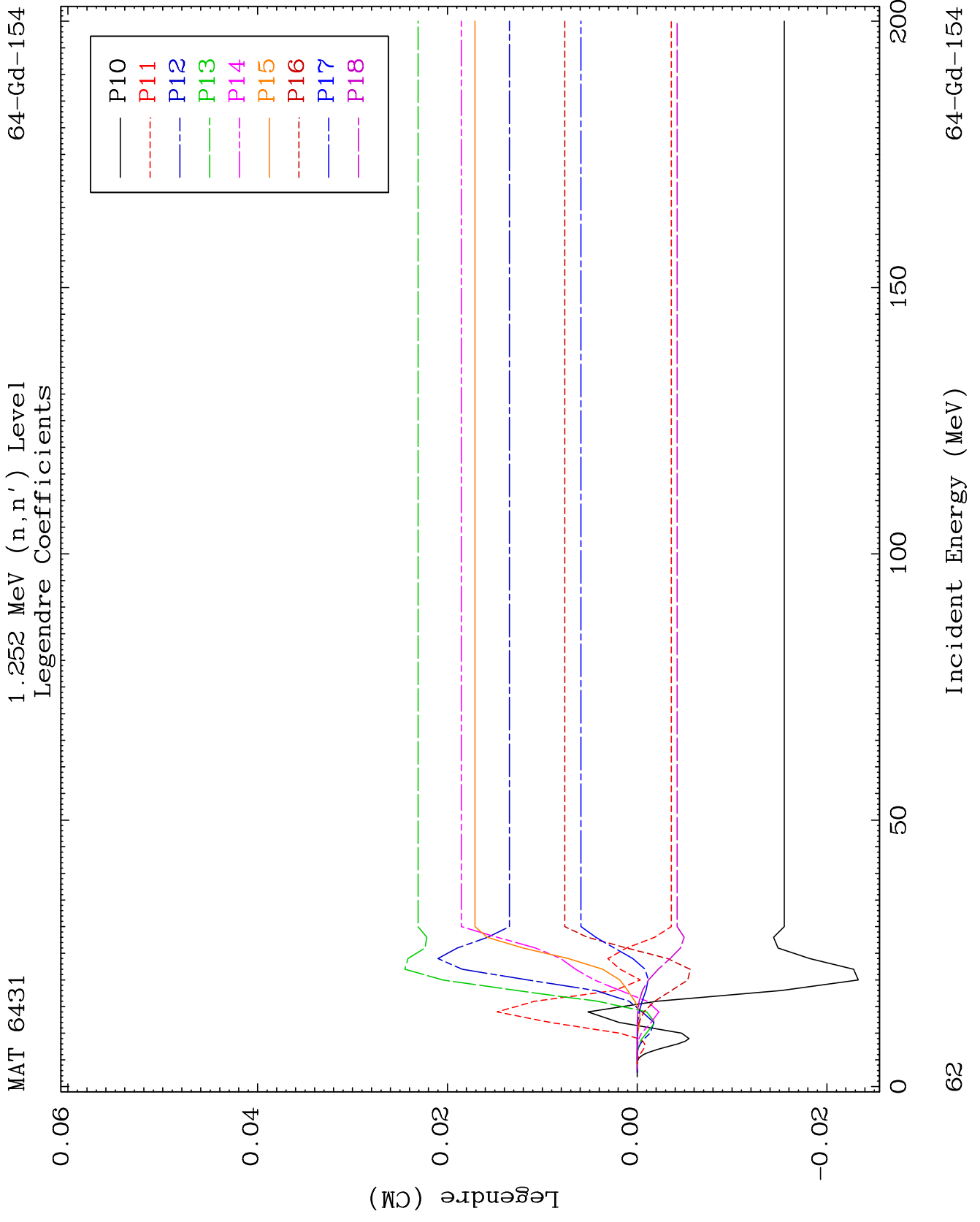
64-Gd-154



61

Incident Energy (MeV)

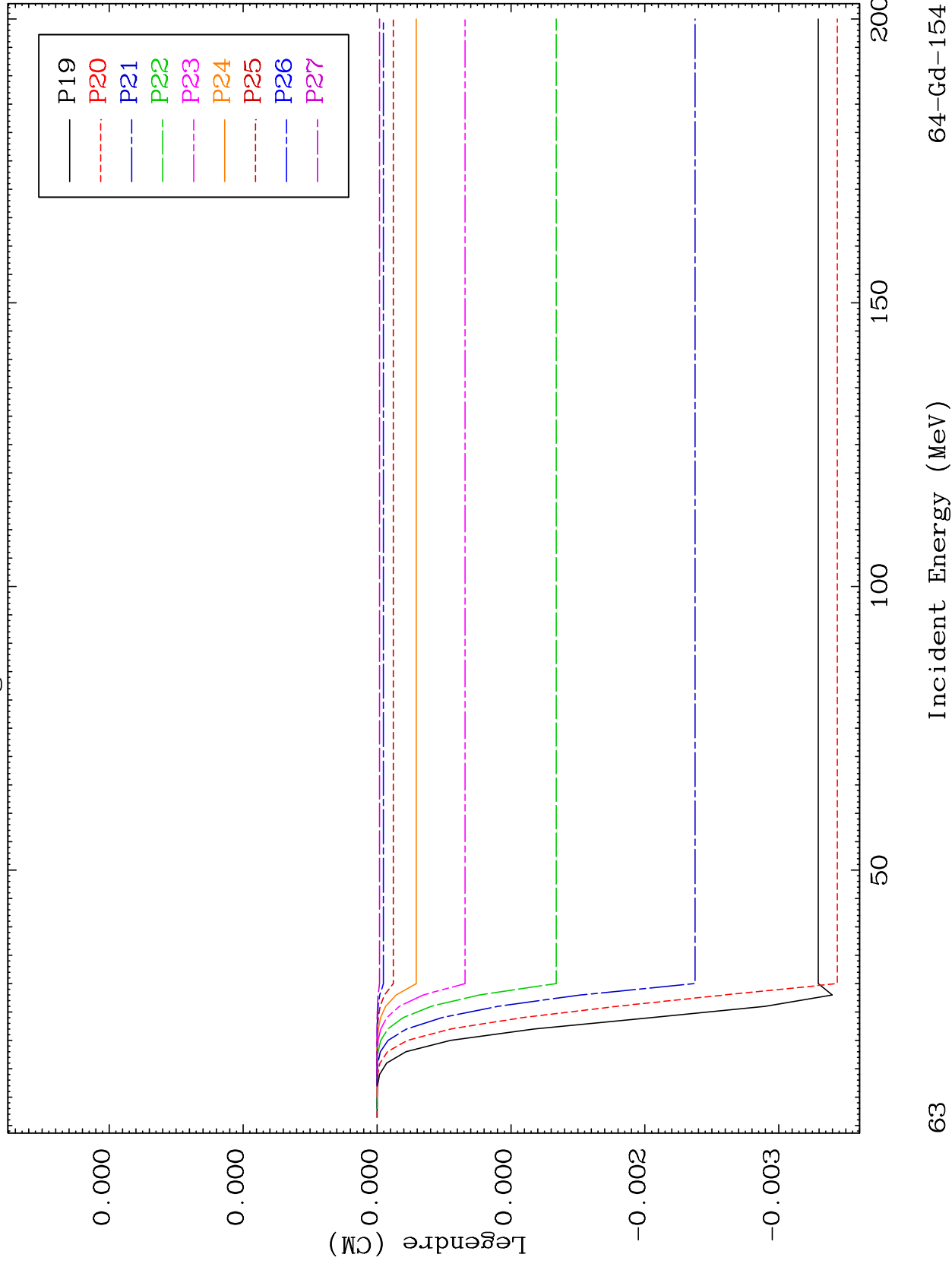
64-Gd-154



MAT 6431

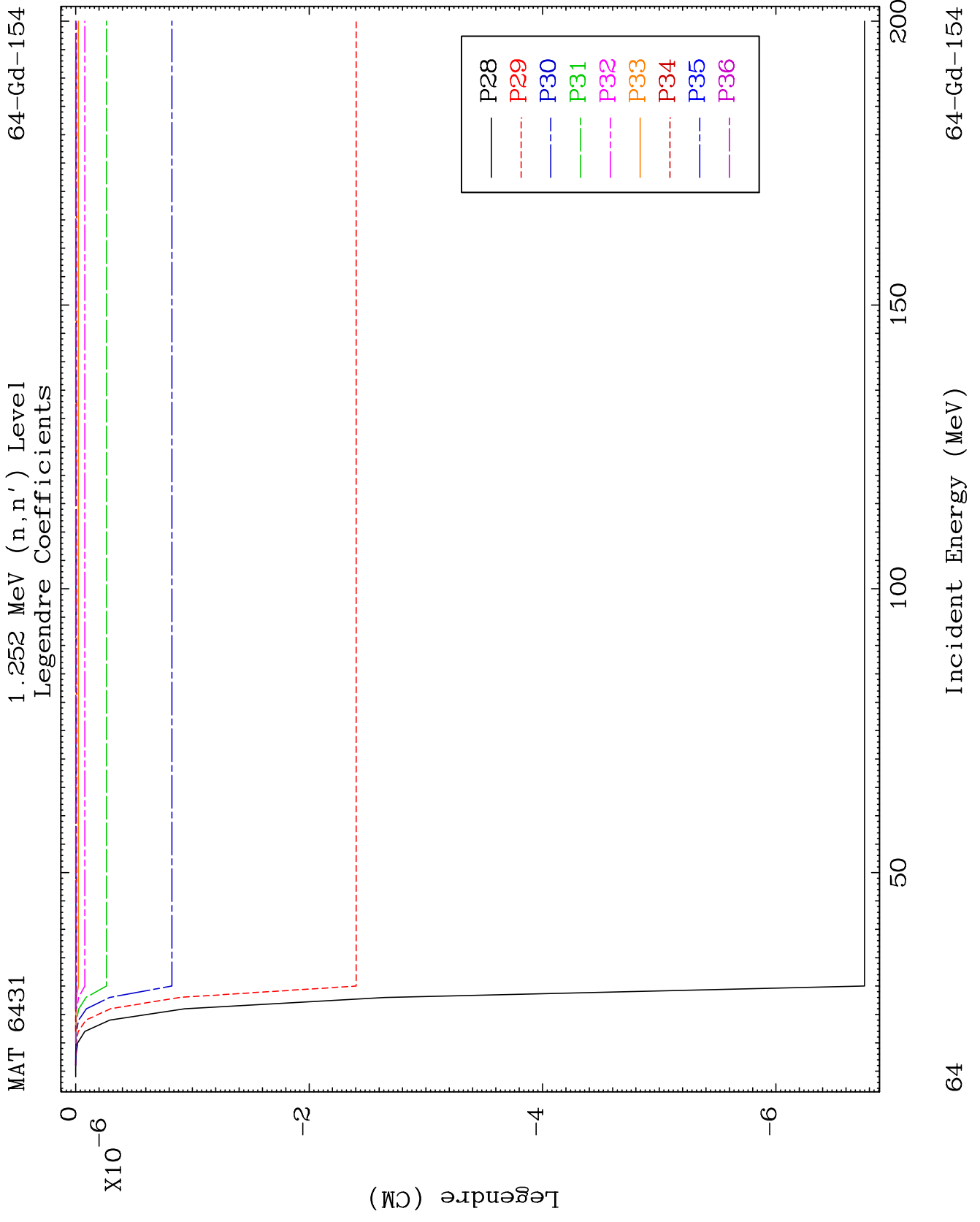
1.252 MeV (n,n') Level  
Legendre Coefficients

64-Gd-154



63

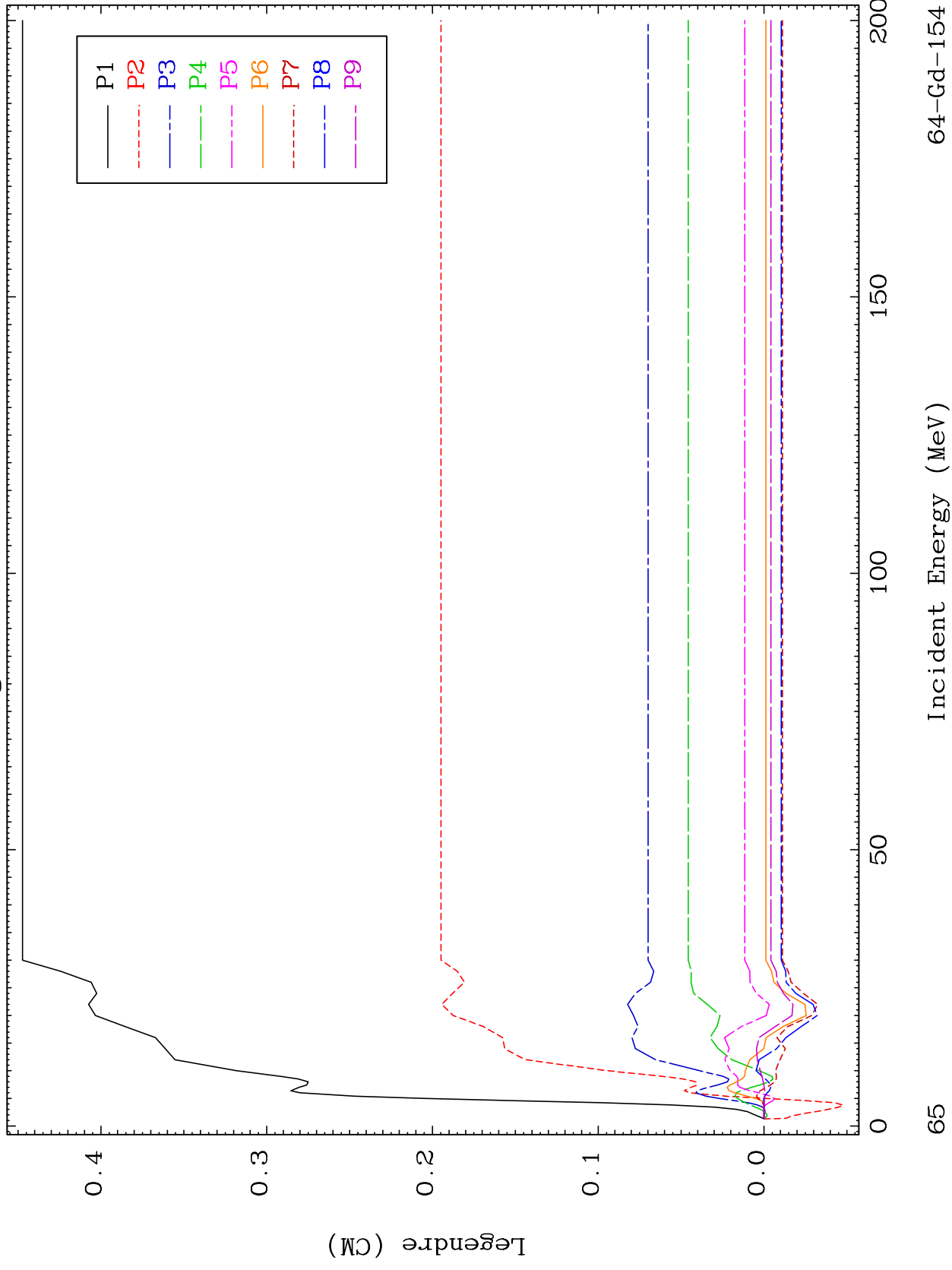




MAT 6431

1.264 MeV (n,n') Level  
Legendre Coefficients

64-Gd-154



64-Gd-154

Incident Energy (MeV)

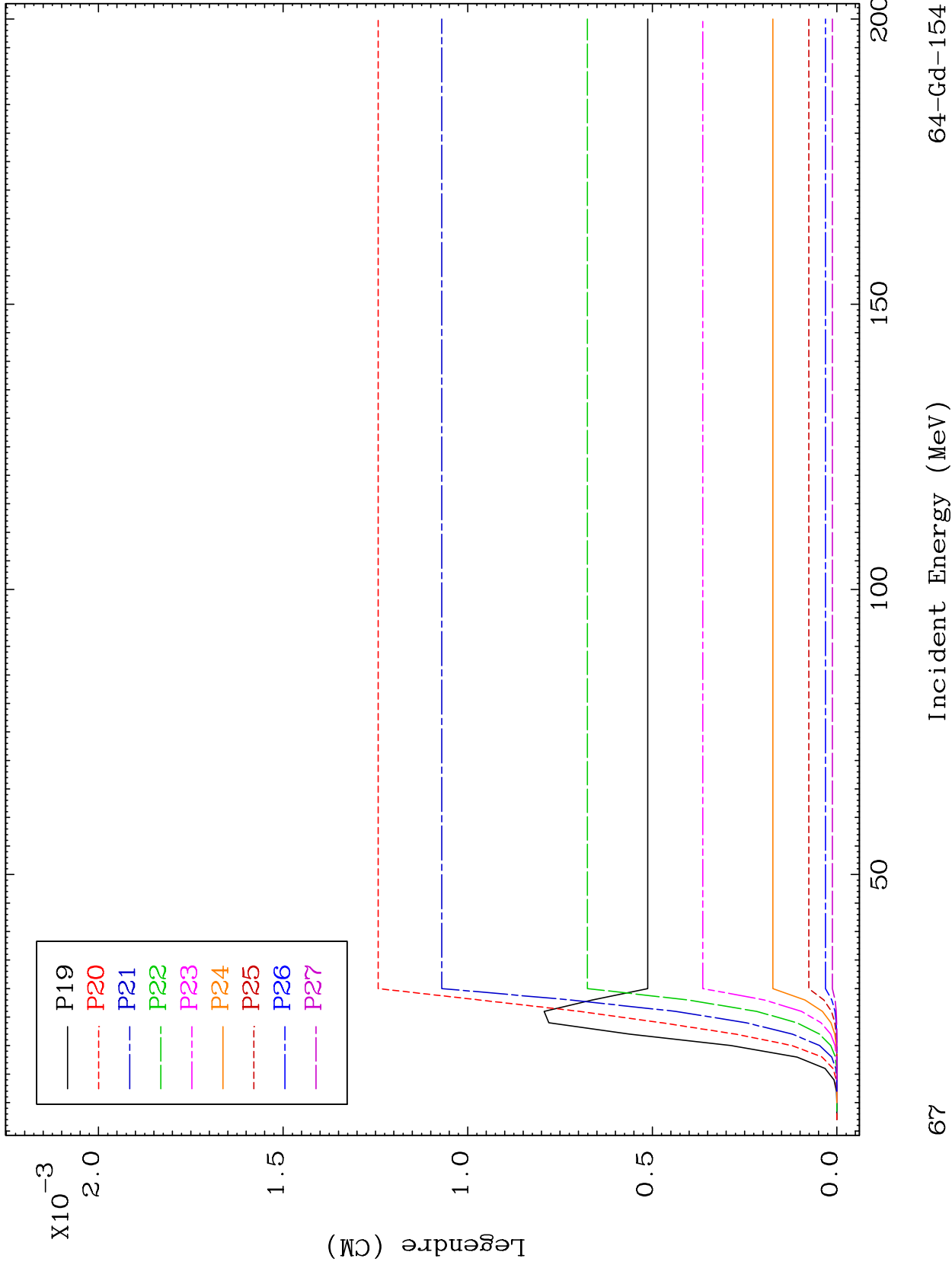
65



MAT 6431

1.264 MeV (n, n') Level  
Legendre Coefficients

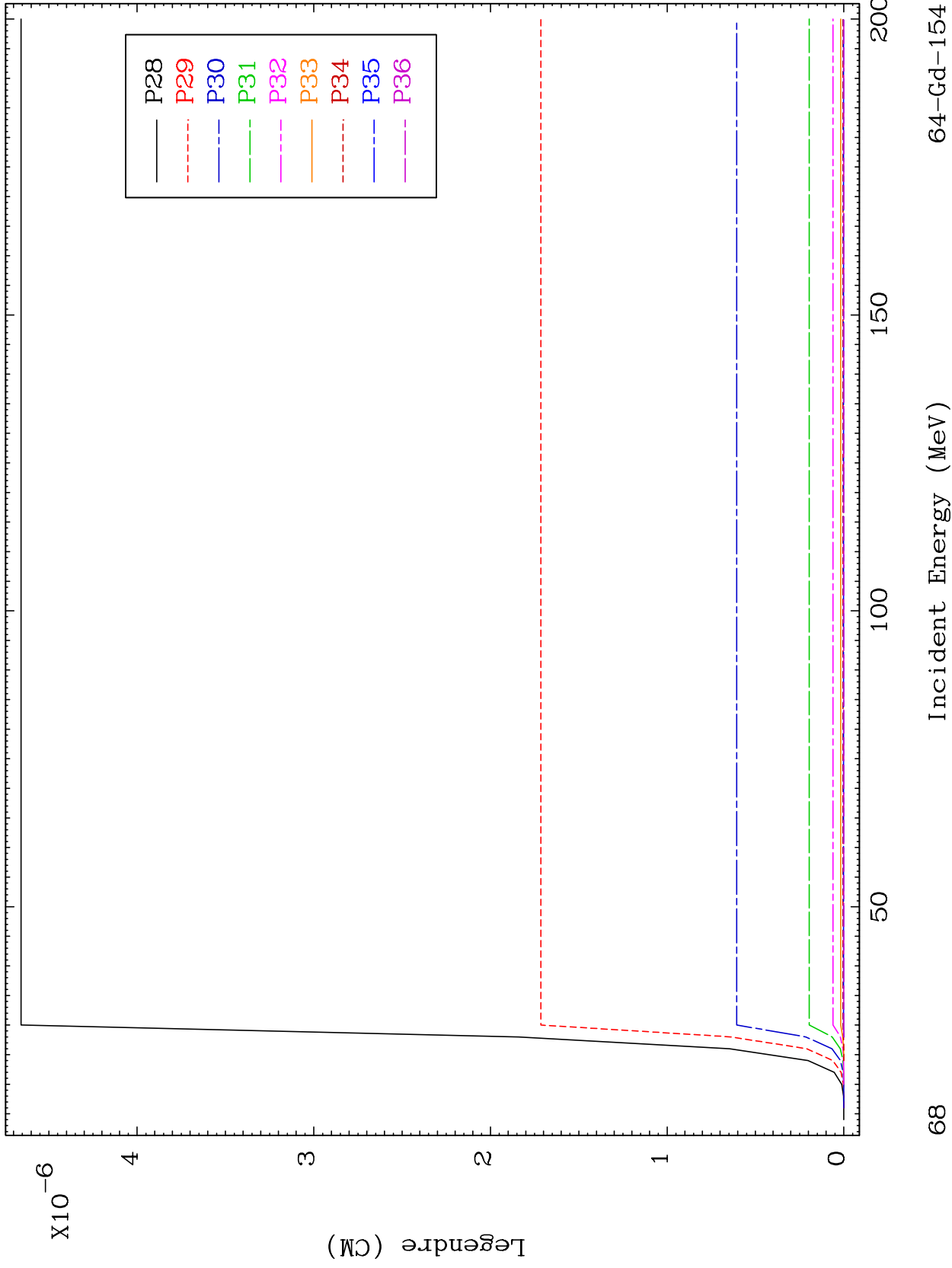
64-Gd-154



MAT 6431

1.264 MeV (n,n') Level  
Legendre Coefficients

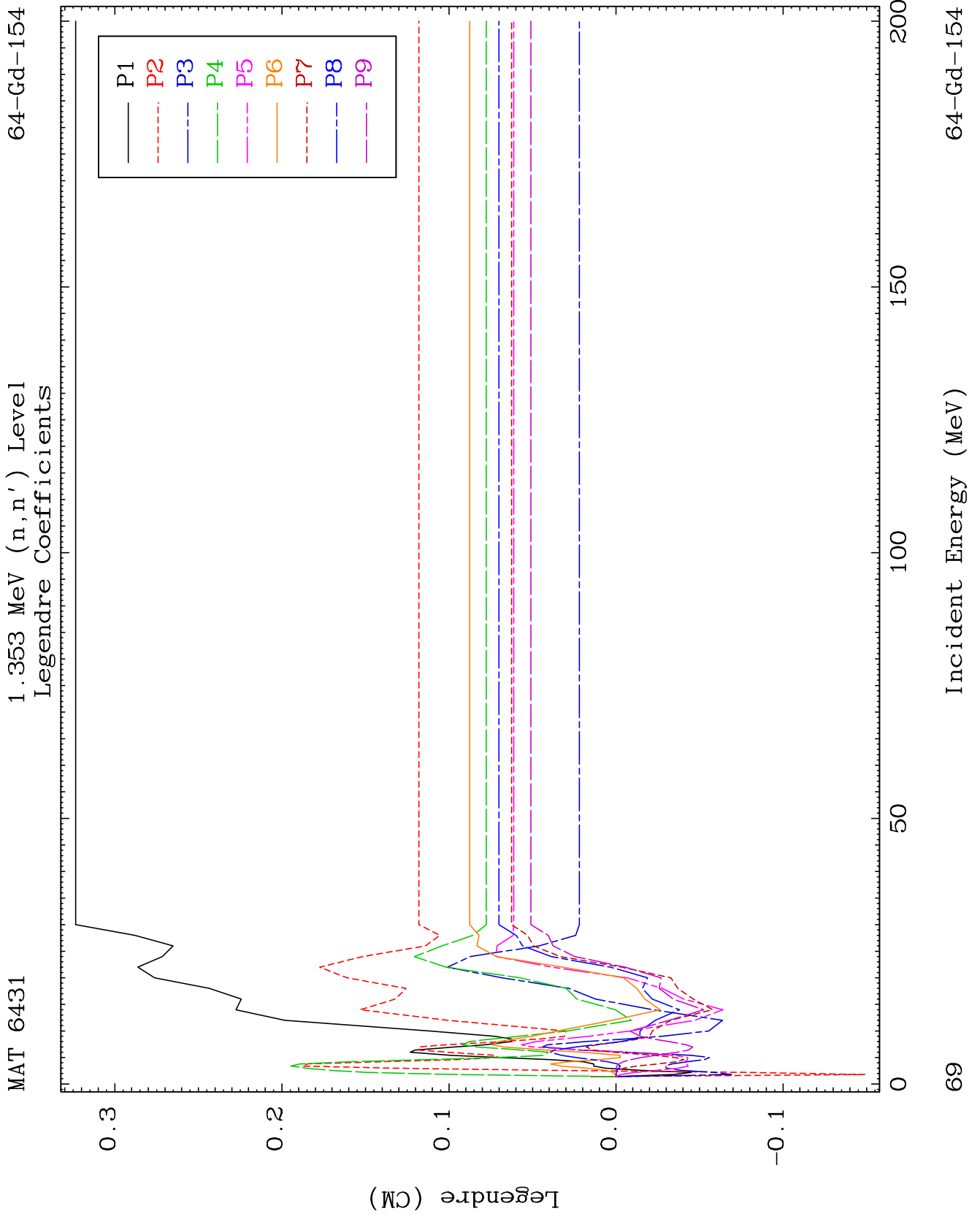
64-Gd-154



68

Incident Energy (MeV)

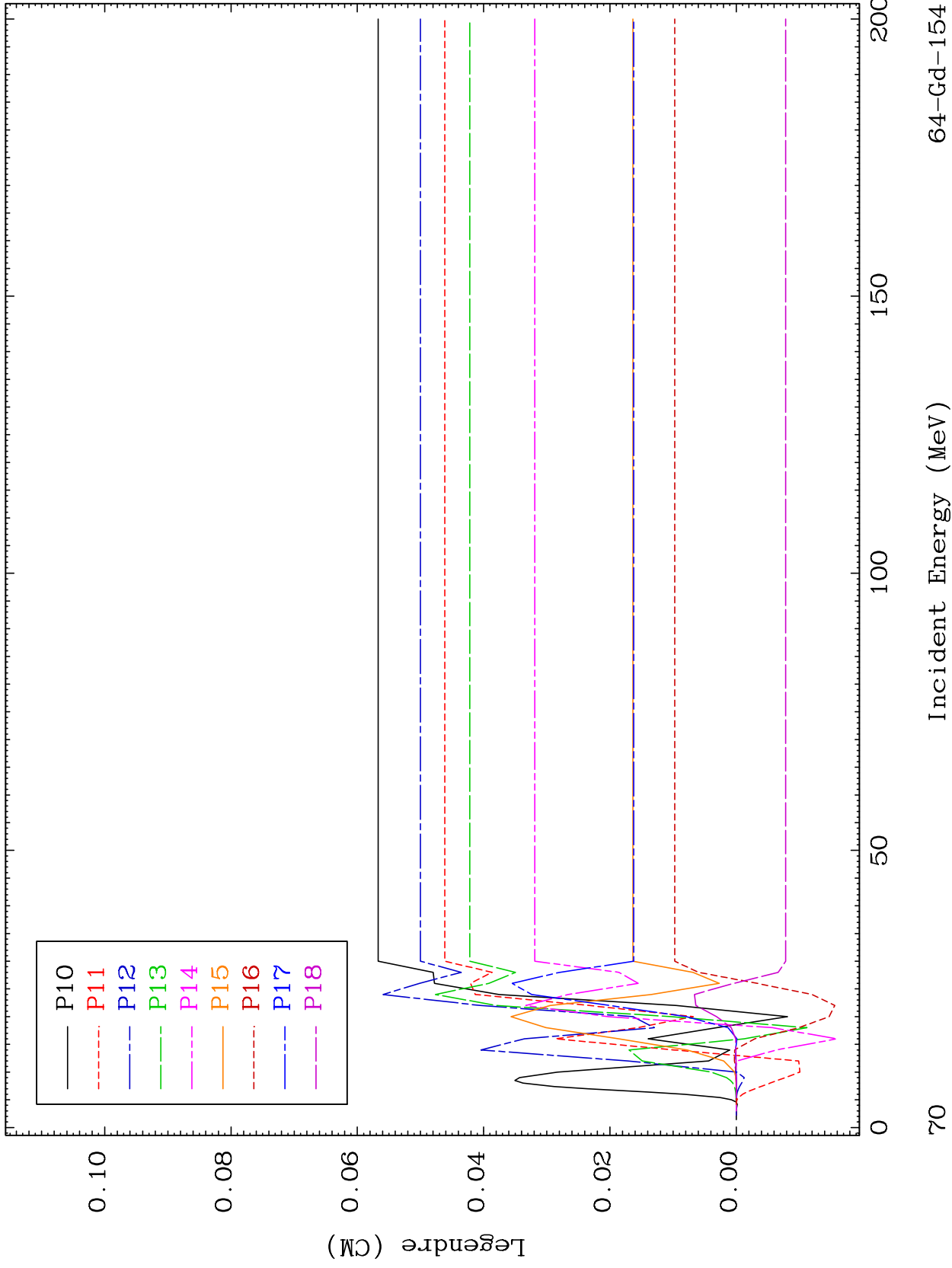
64-Gd-154



MAT 6431

1.353 MeV (n,n') Level  
Legendre Coefficients

64-Gd-154



64-Gd-154

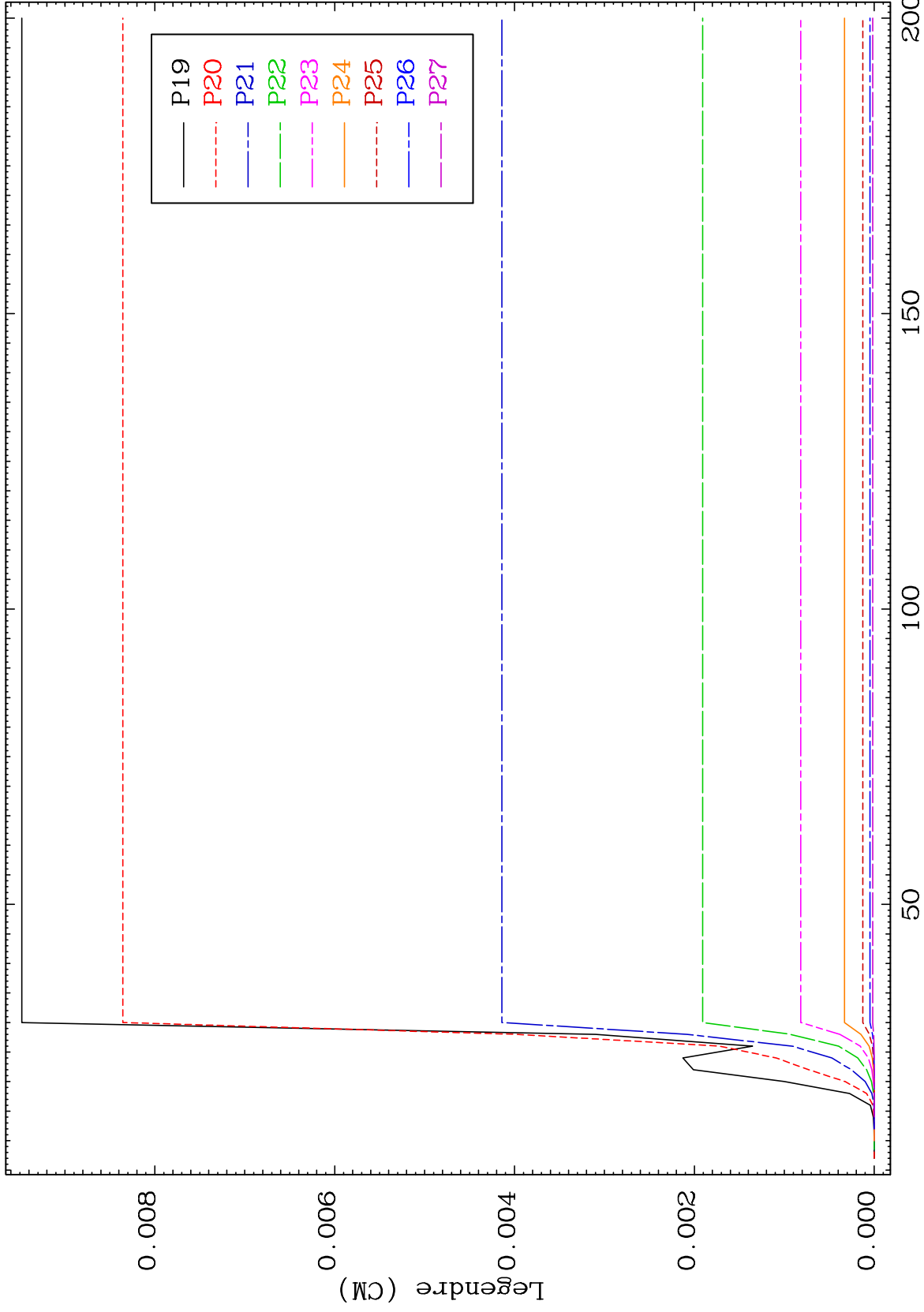
Incident Energy (MeV)

70

MAT 6431

1.353 MeV (n,n') Level  
Legendre Coefficients

64-Gd-154

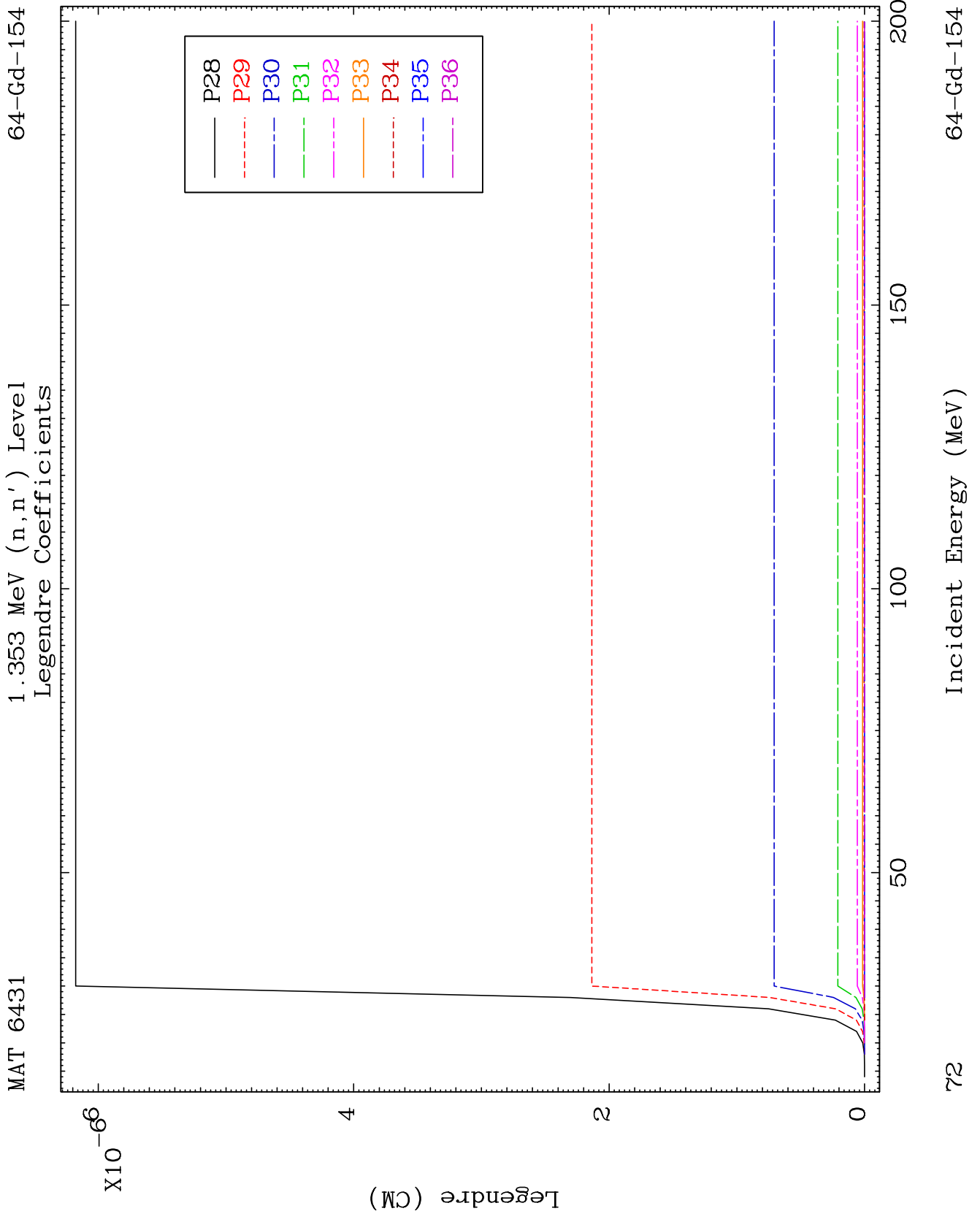


71

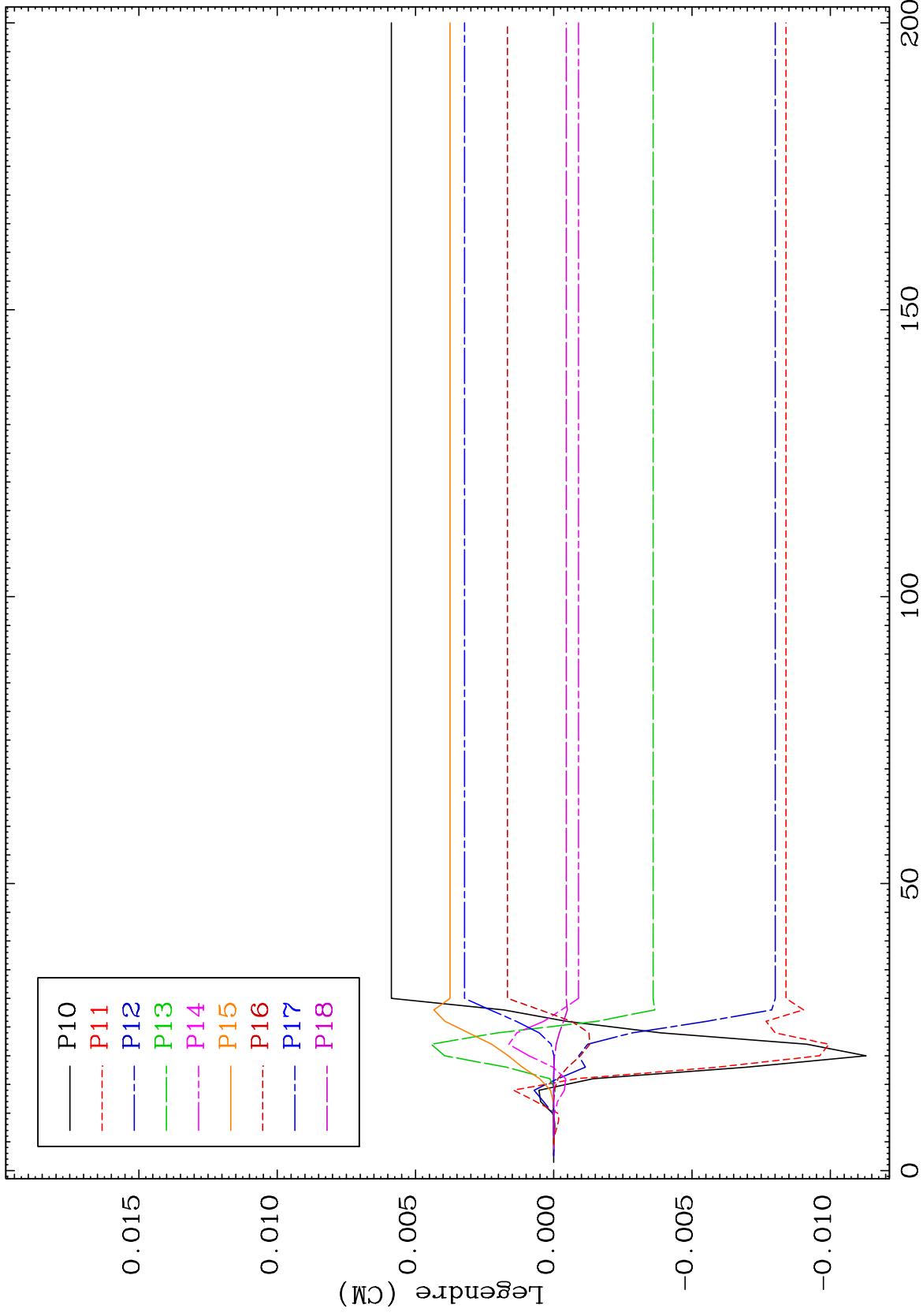
Incident Energy (MeV)

64-Gd-154

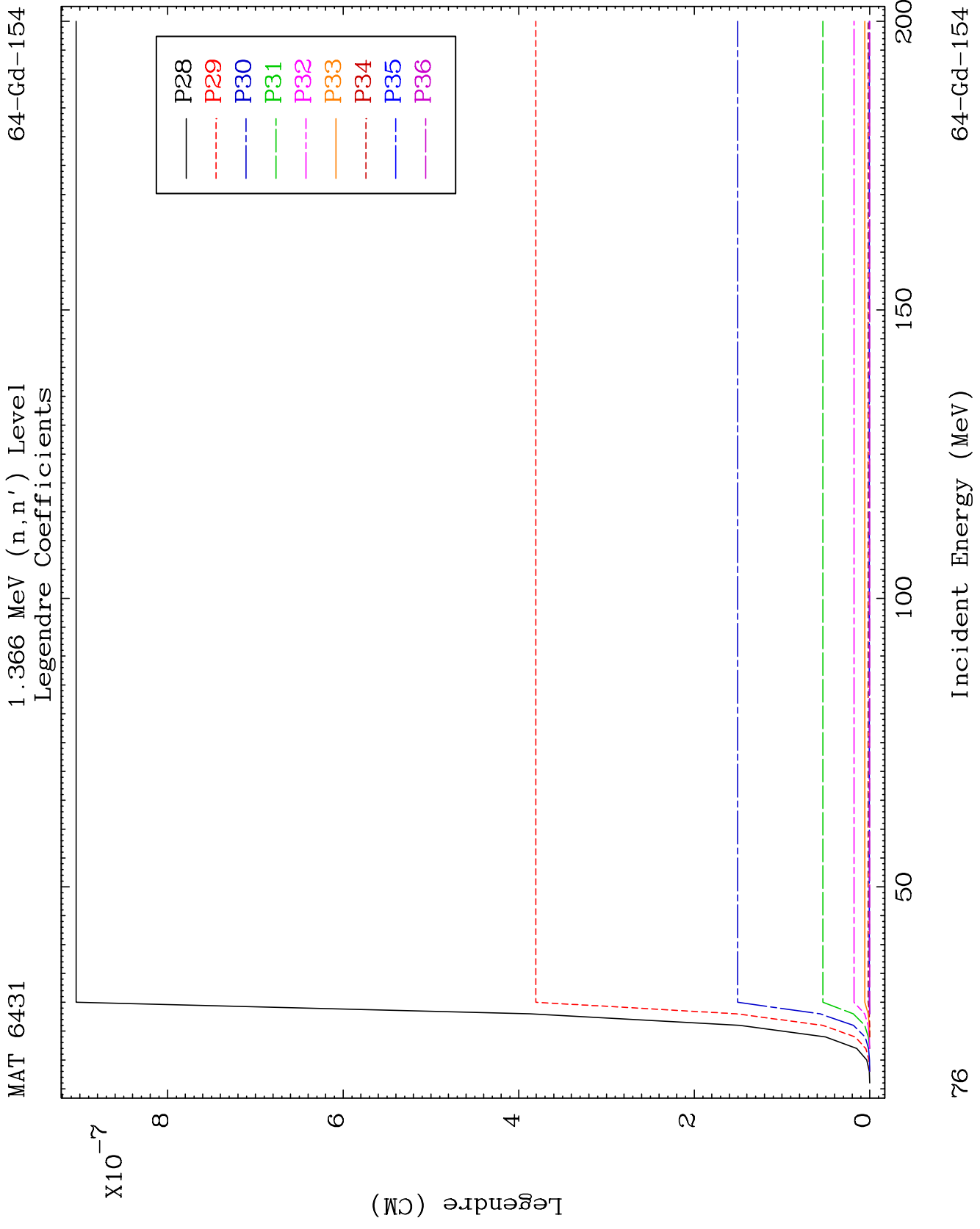










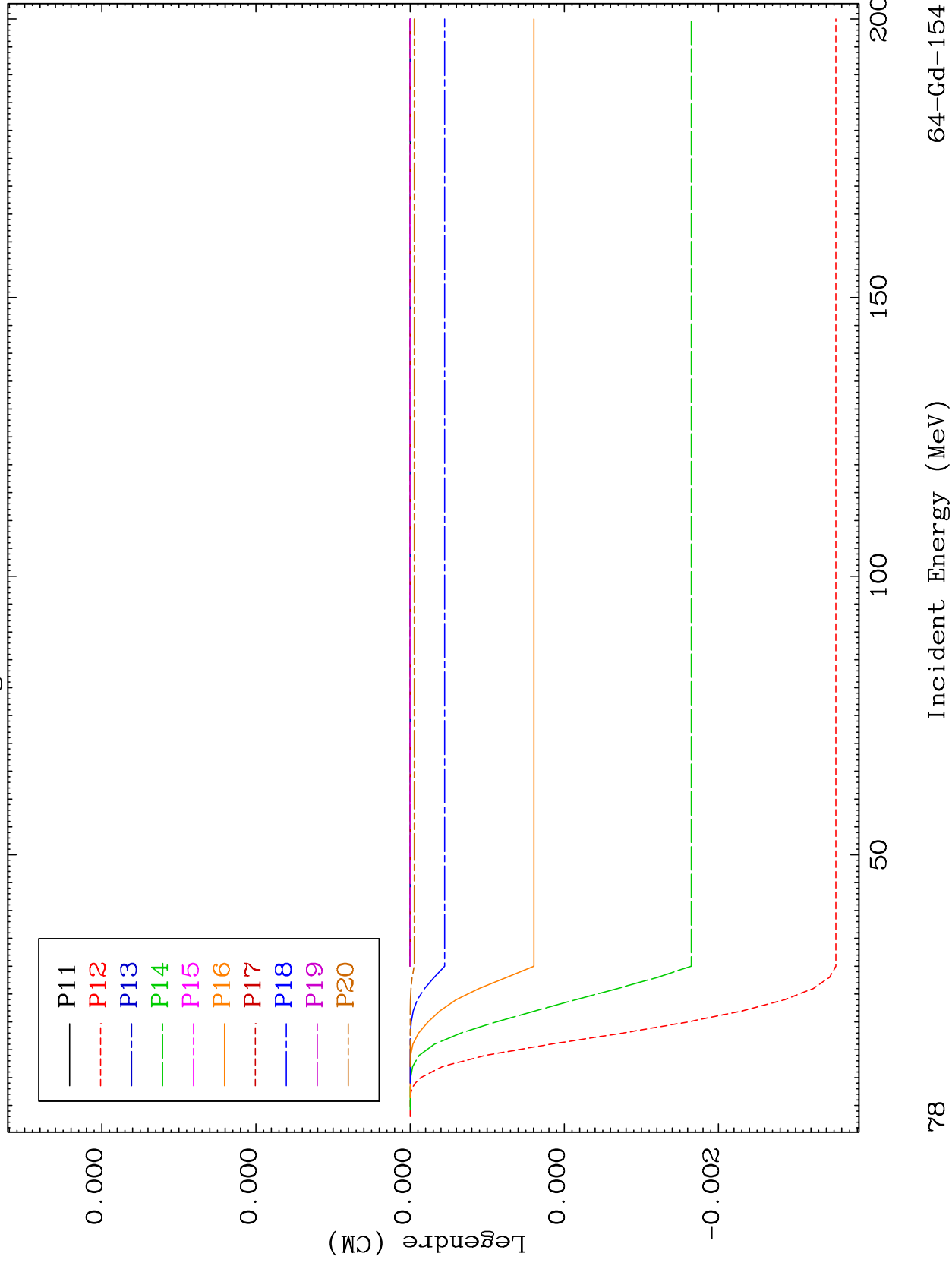




MAT 6431

1.398 MeV (n,n') Level  
Legendre Coefficients

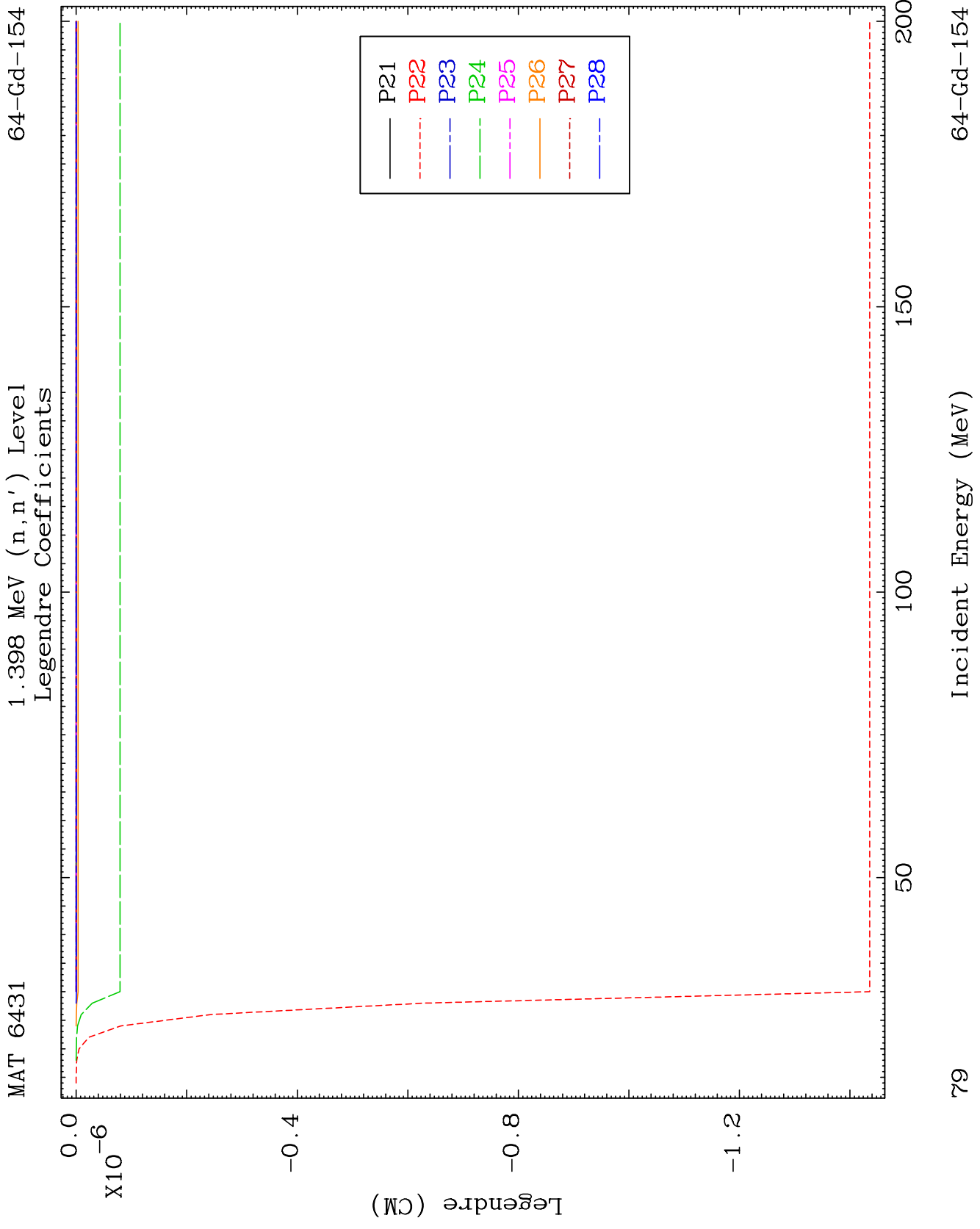
64-Gd-154



78

Incident Energy (MeV)

64-Gd-154



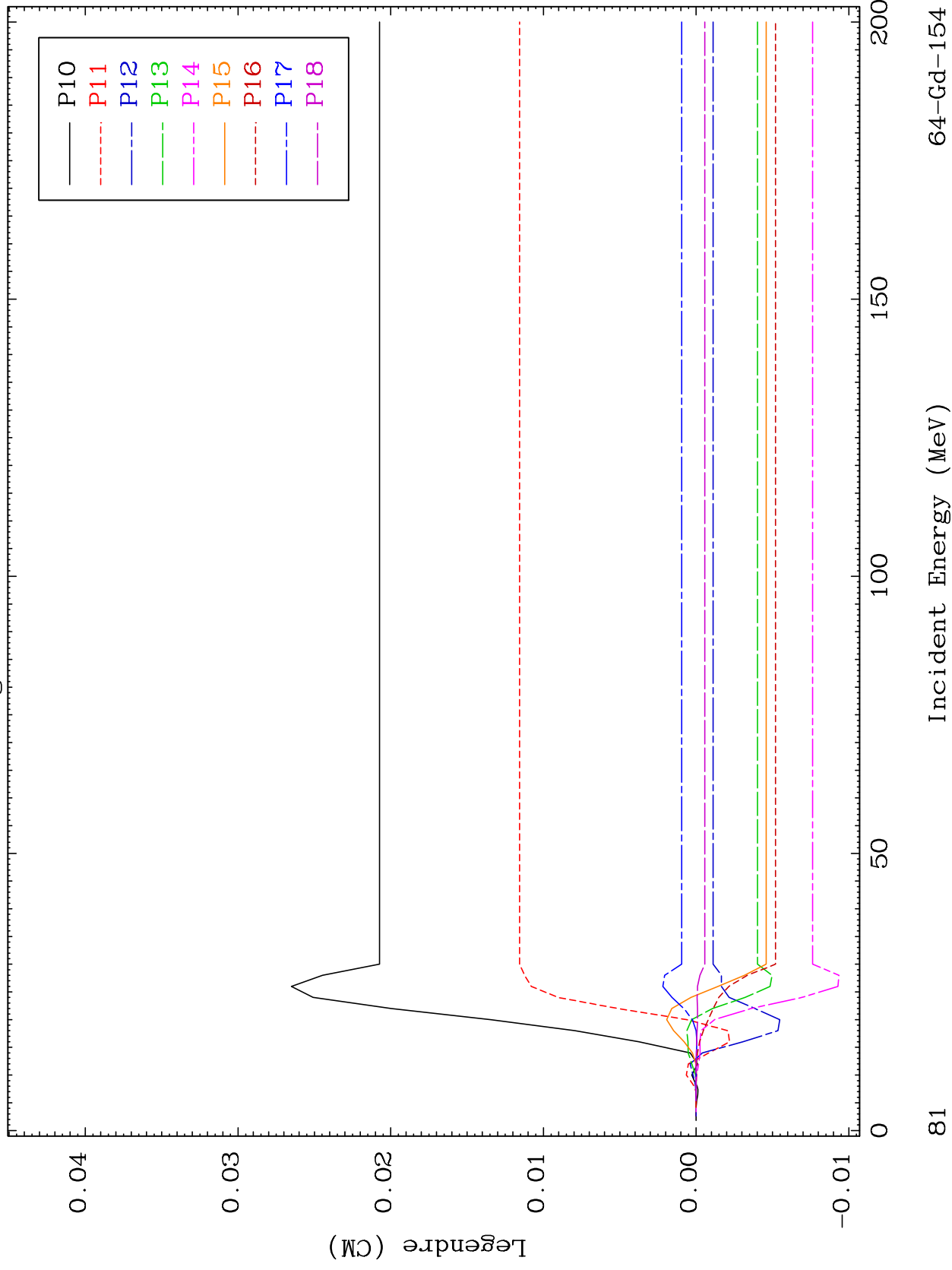




MAT 6431

1.404 MeV (n,n') Level  
Legendre Coefficients

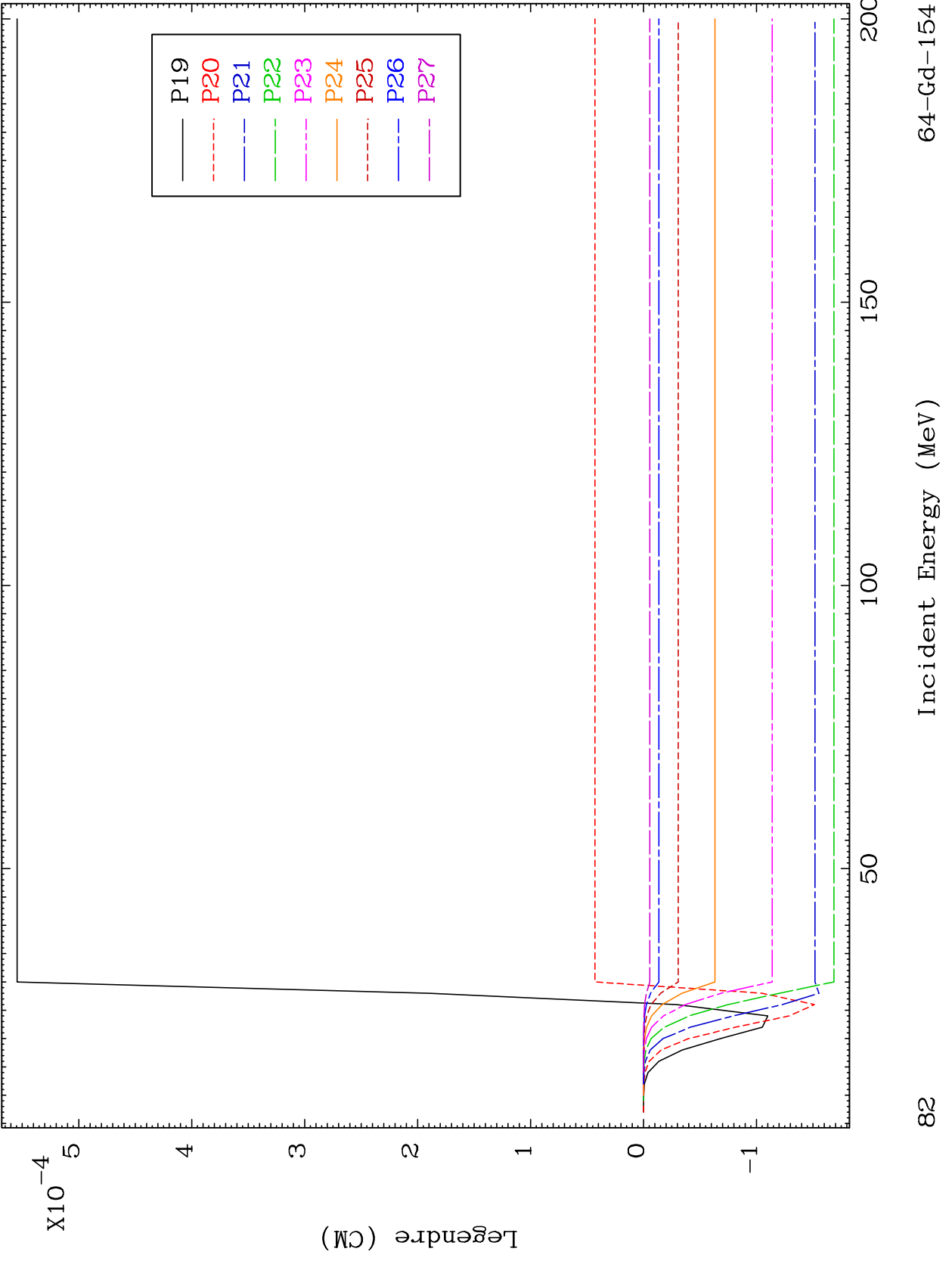
64-Gd-154

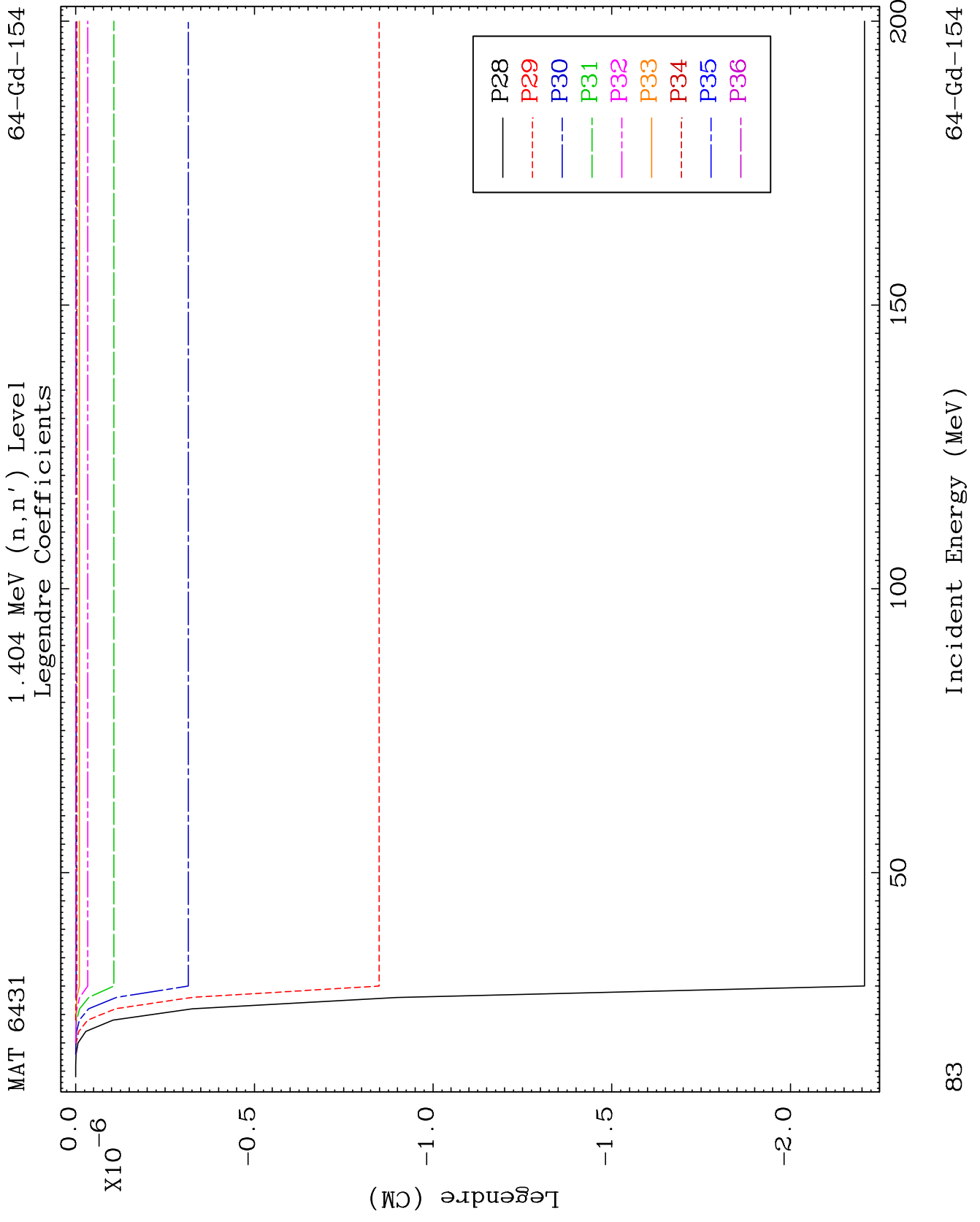


64-Gd-154

Incident Energy (MeV)

81

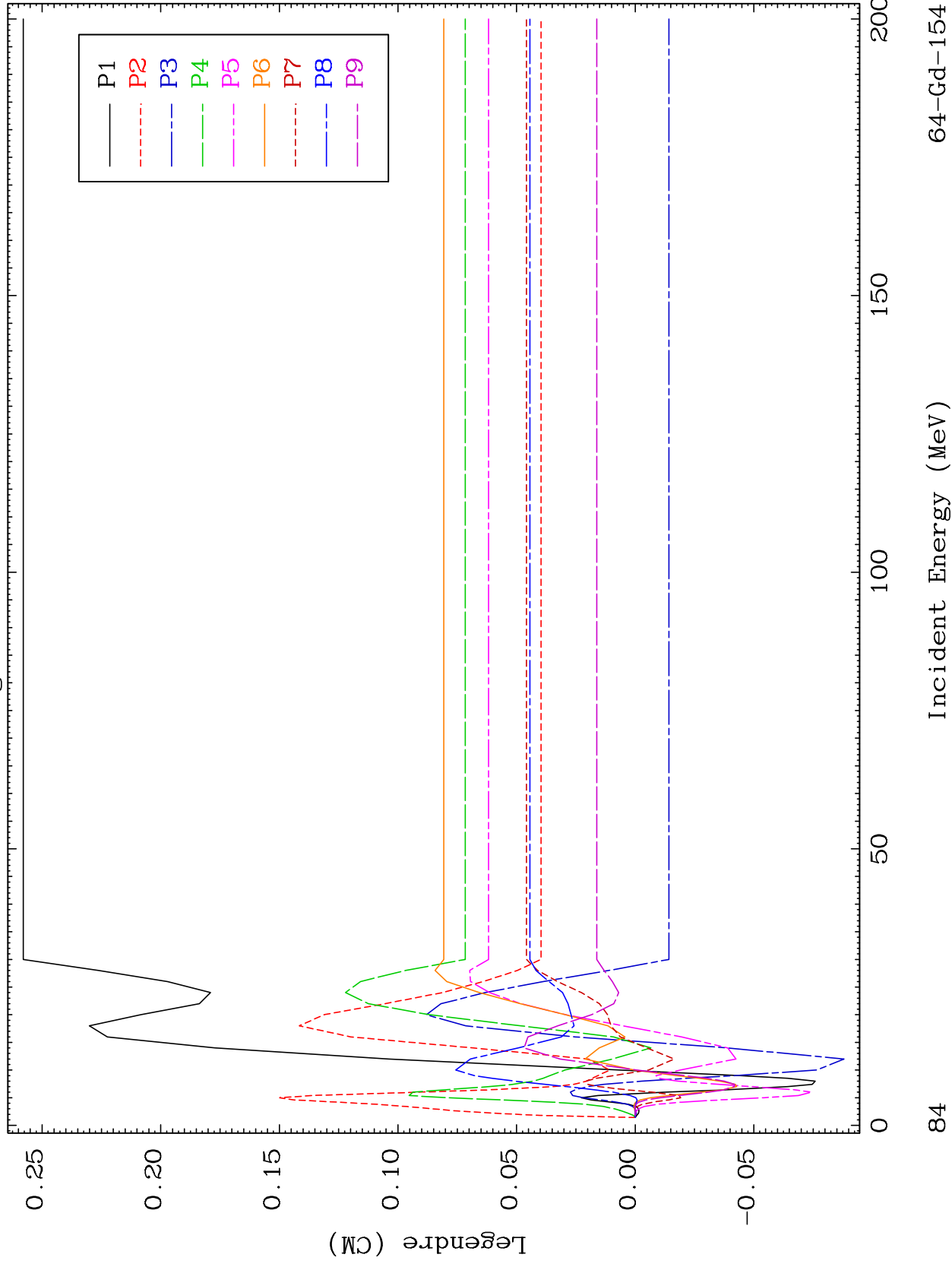




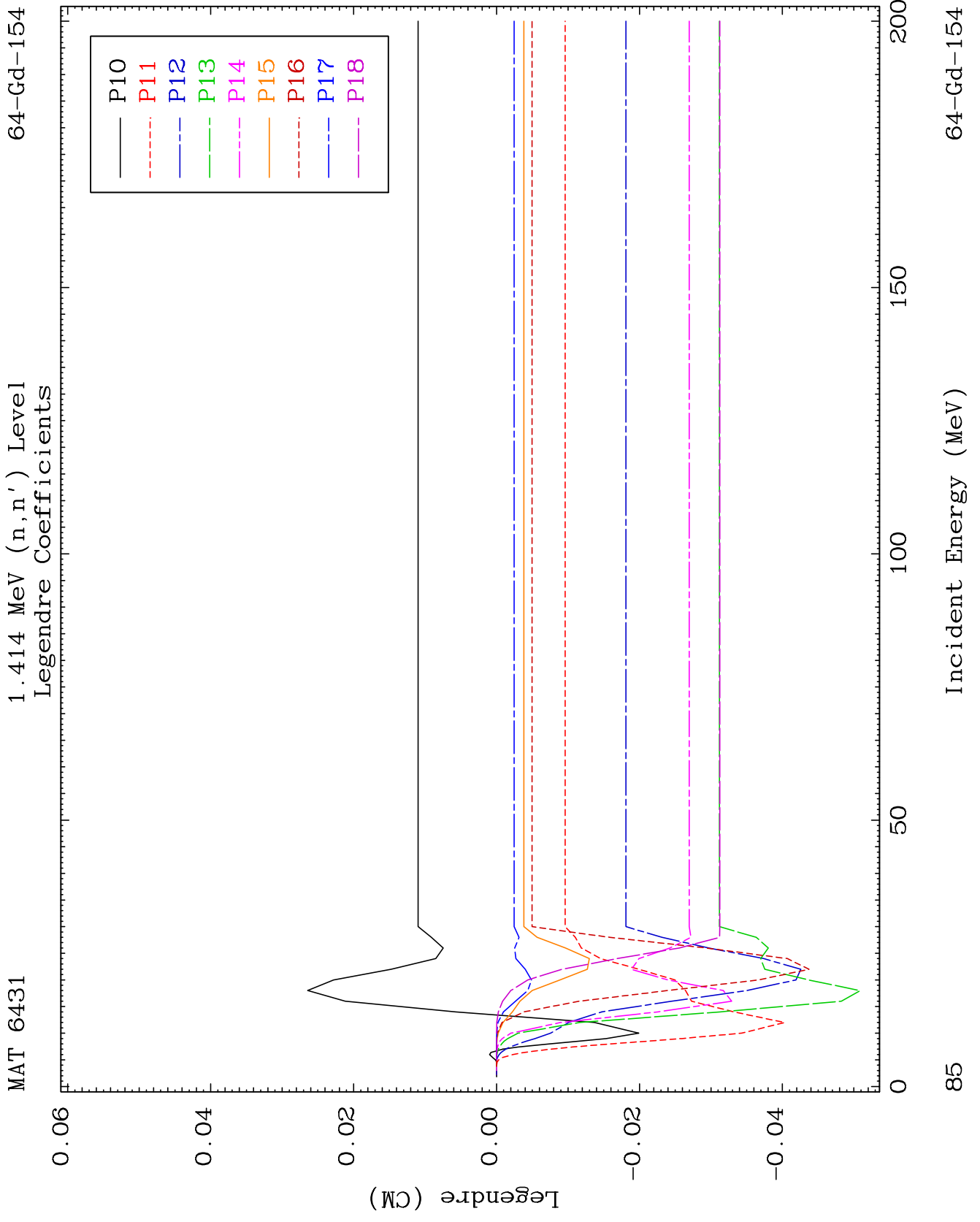
MAT 6431

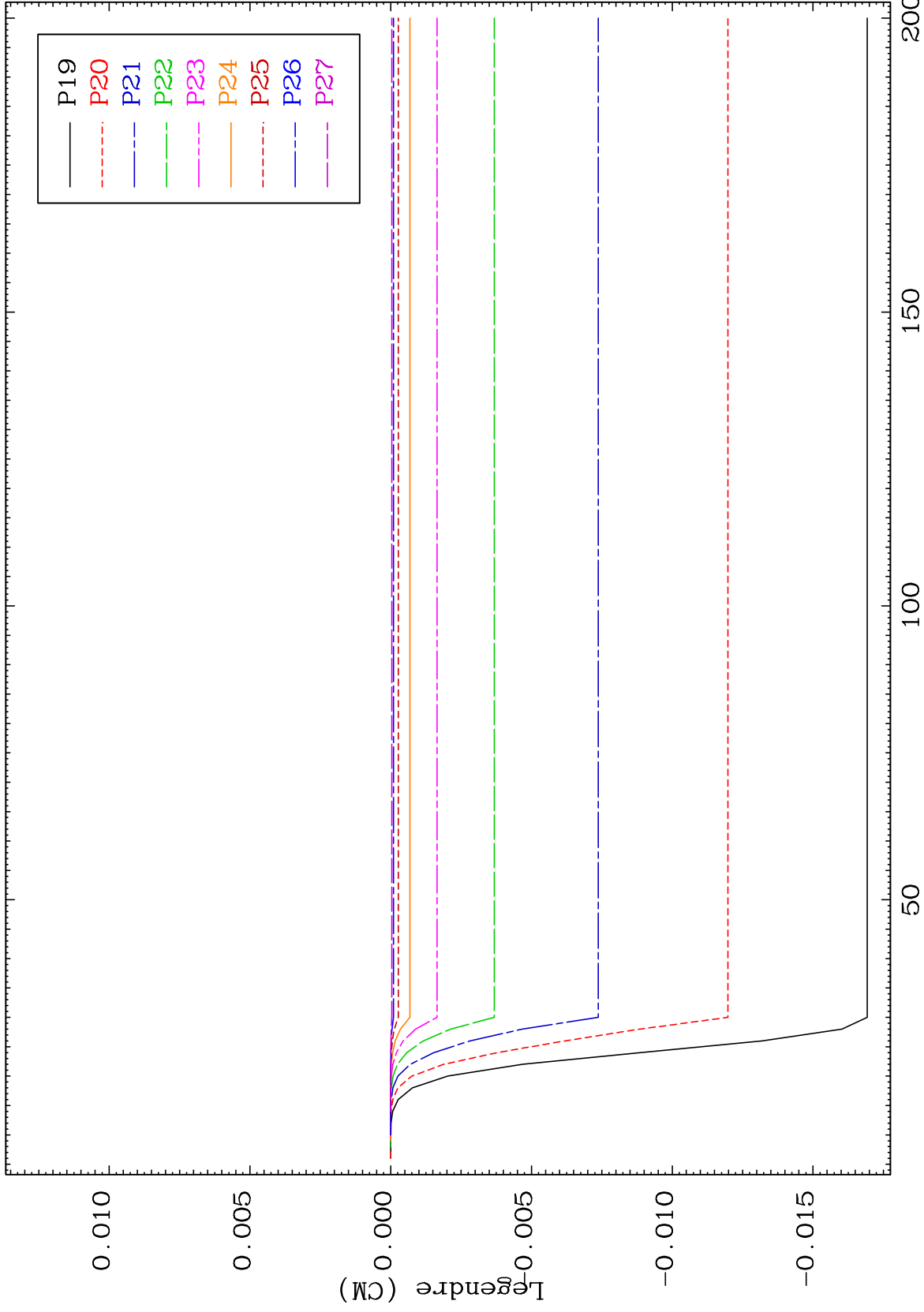
1.414 MeV (n,n') Level  
Legendre Coefficients

64-Gd-154



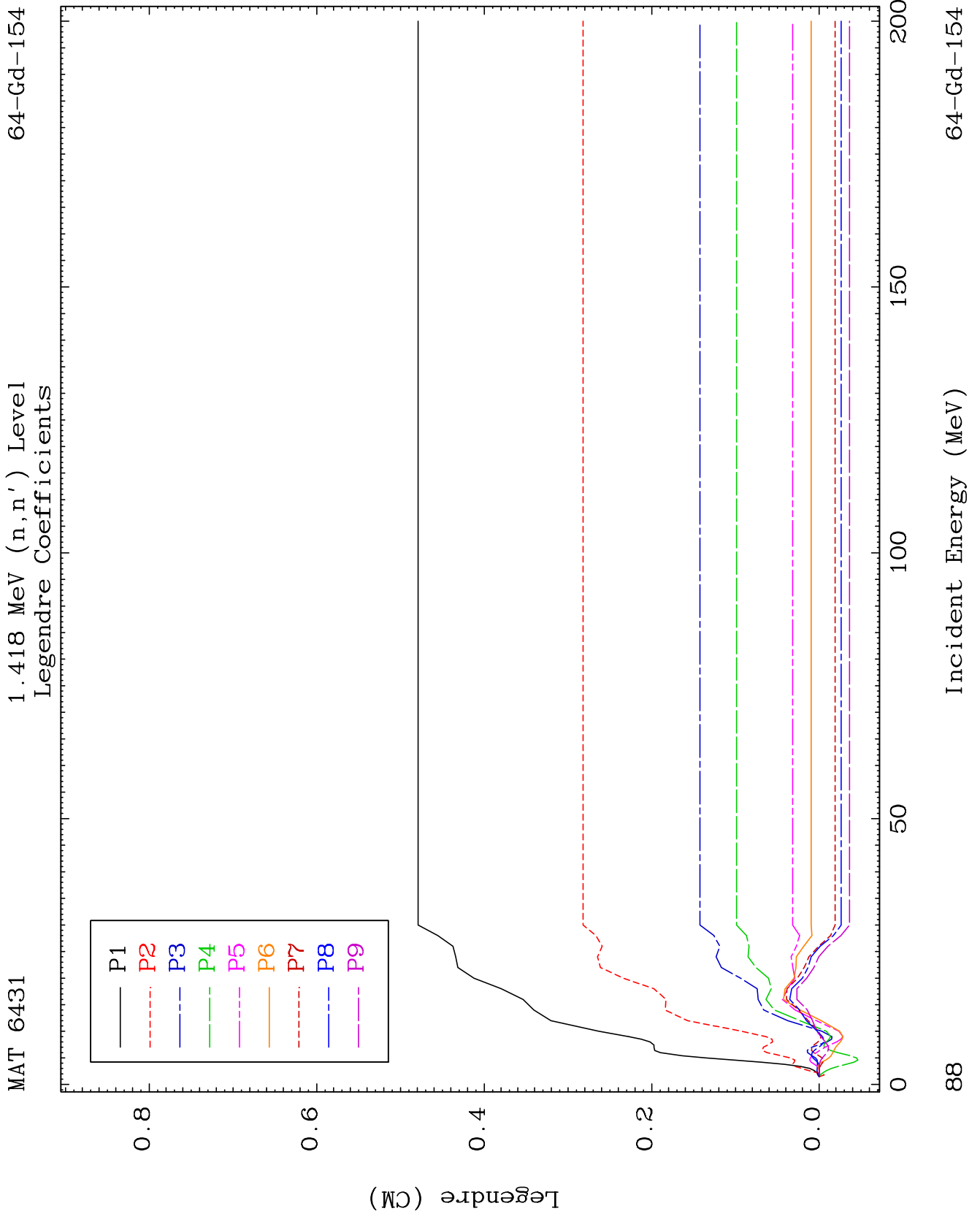
84







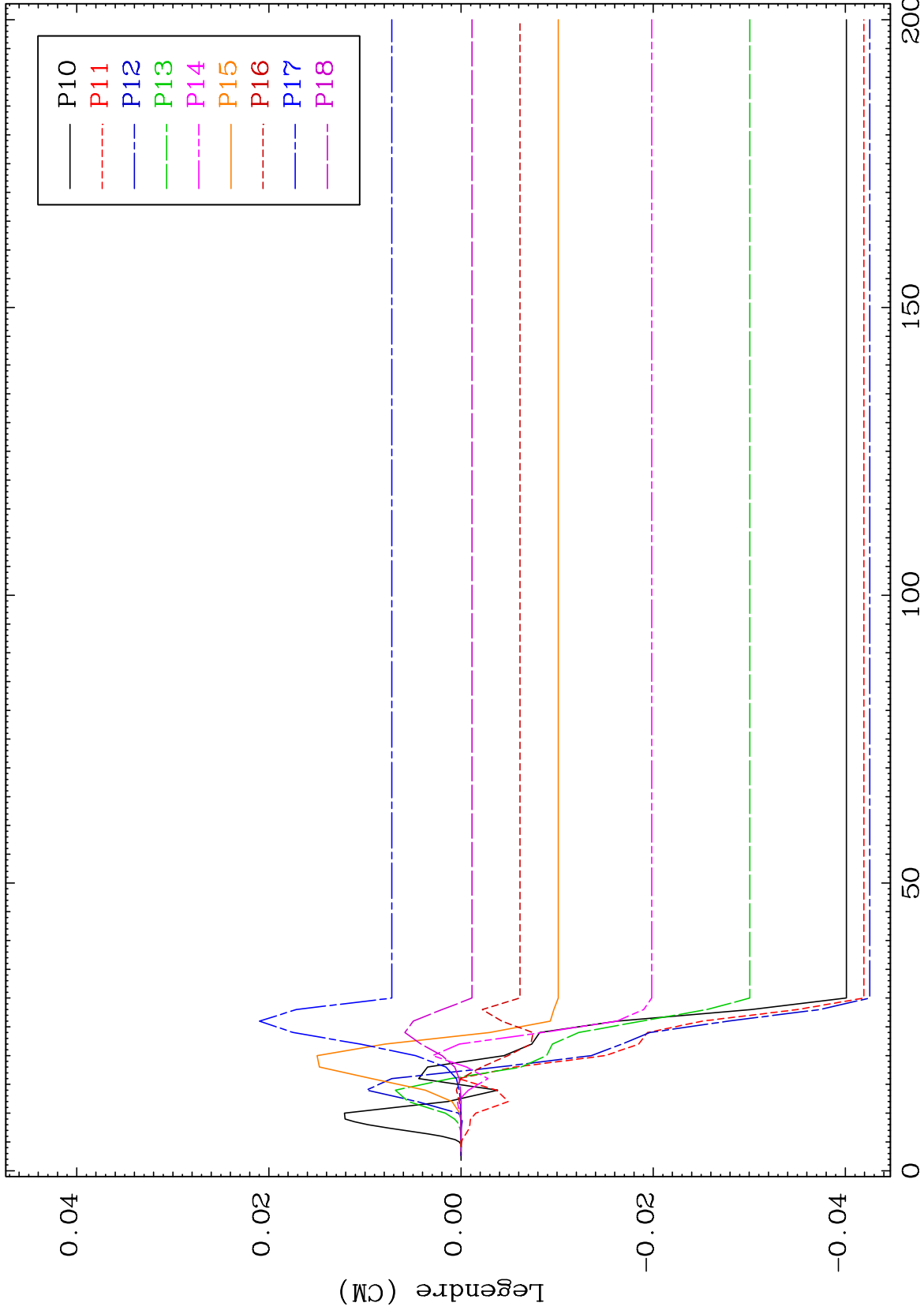




MAT 6431

1.418 MeV (n,n') Level  
Legendre Coefficients

64-Gd-154



89

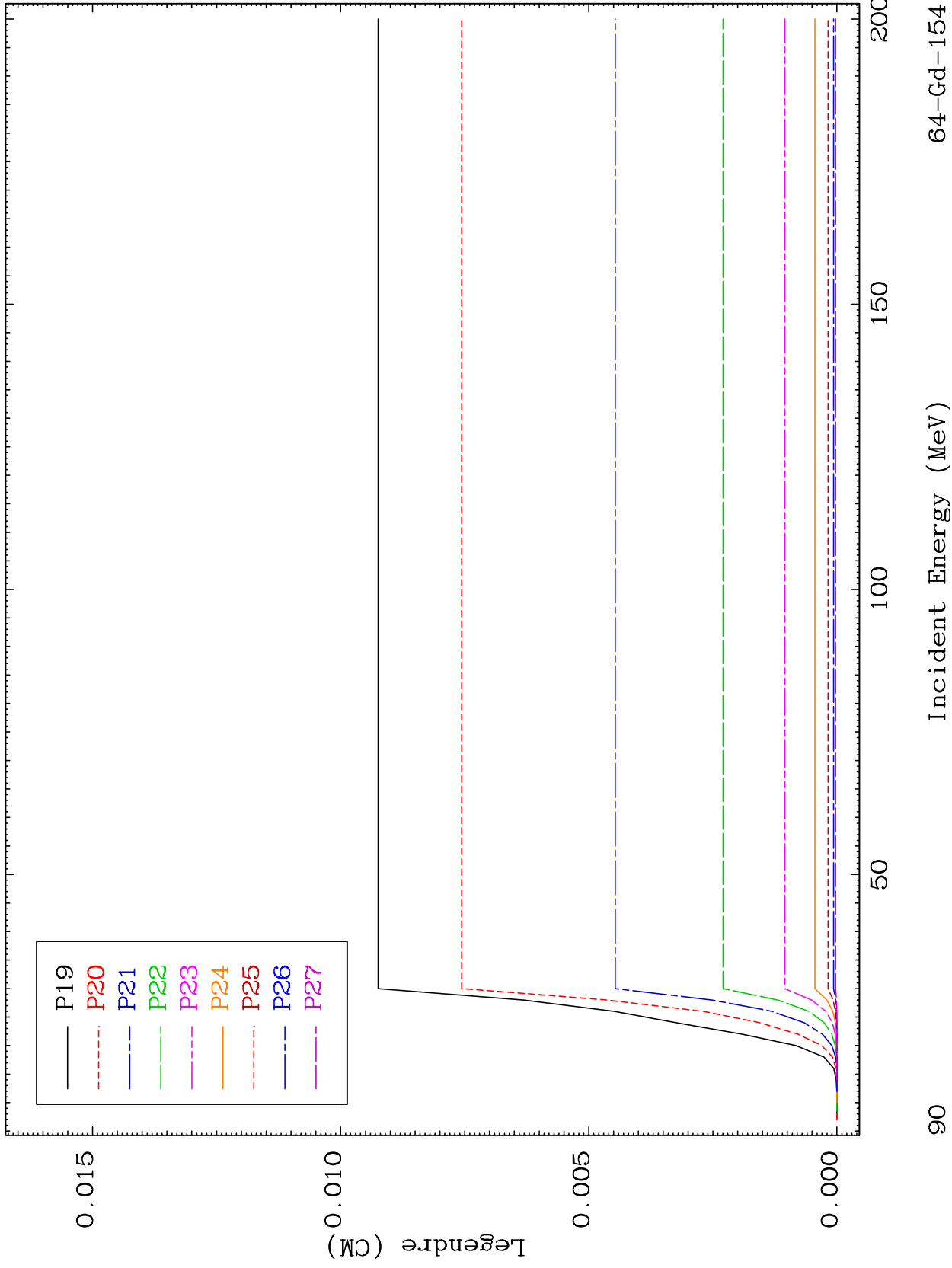
Incident Energy (MeV)

64-Gd-154

MAT 6431

1.418 MeV (n, n') Level  
Legendre Coefficients

64-Gd-154



64-Gd-154

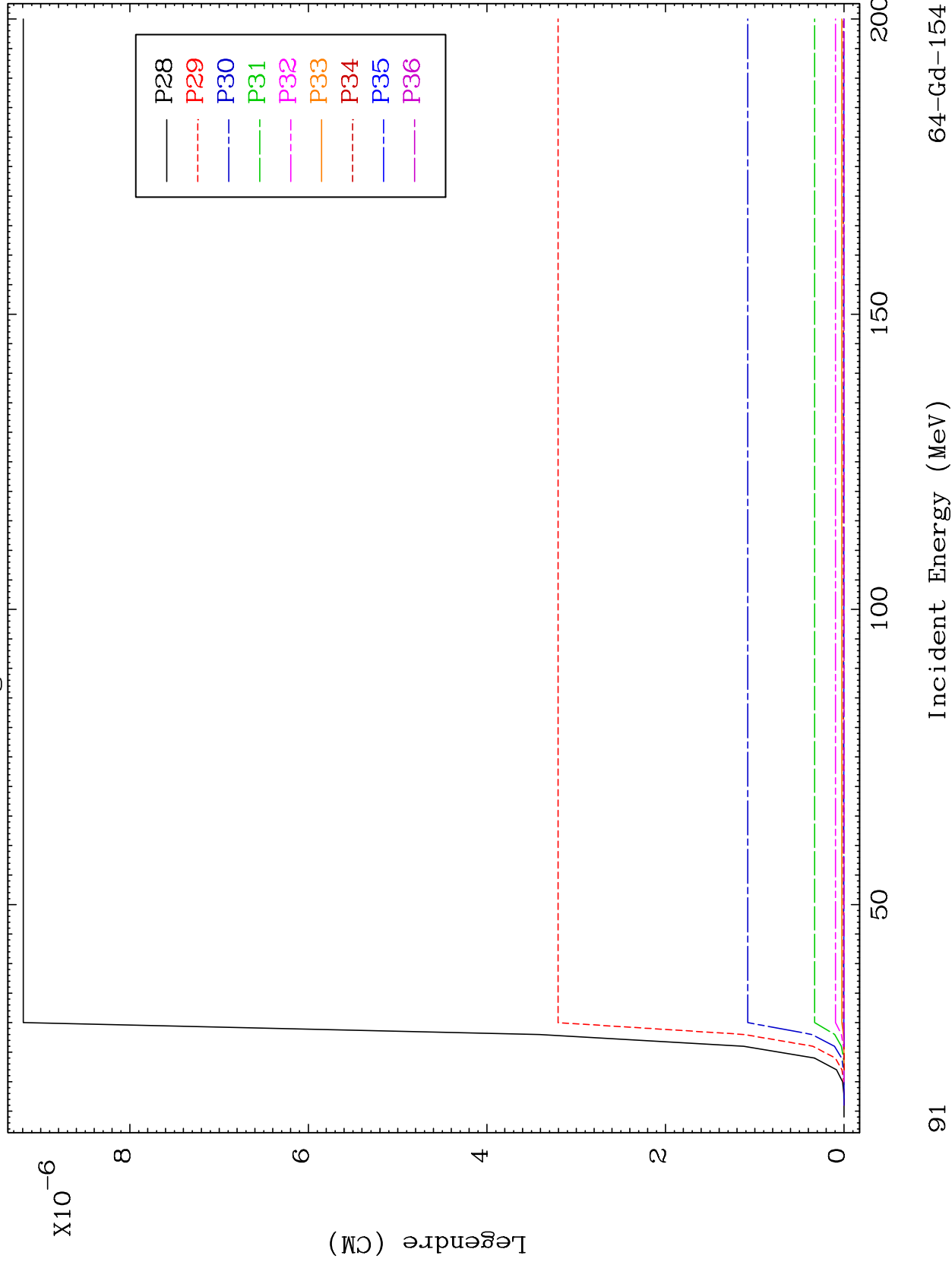
Incident Energy (MeV)

90

MAT 6431

1.418 MeV (n, n') Level  
Legendre Coefficients

64-Gd-154



91

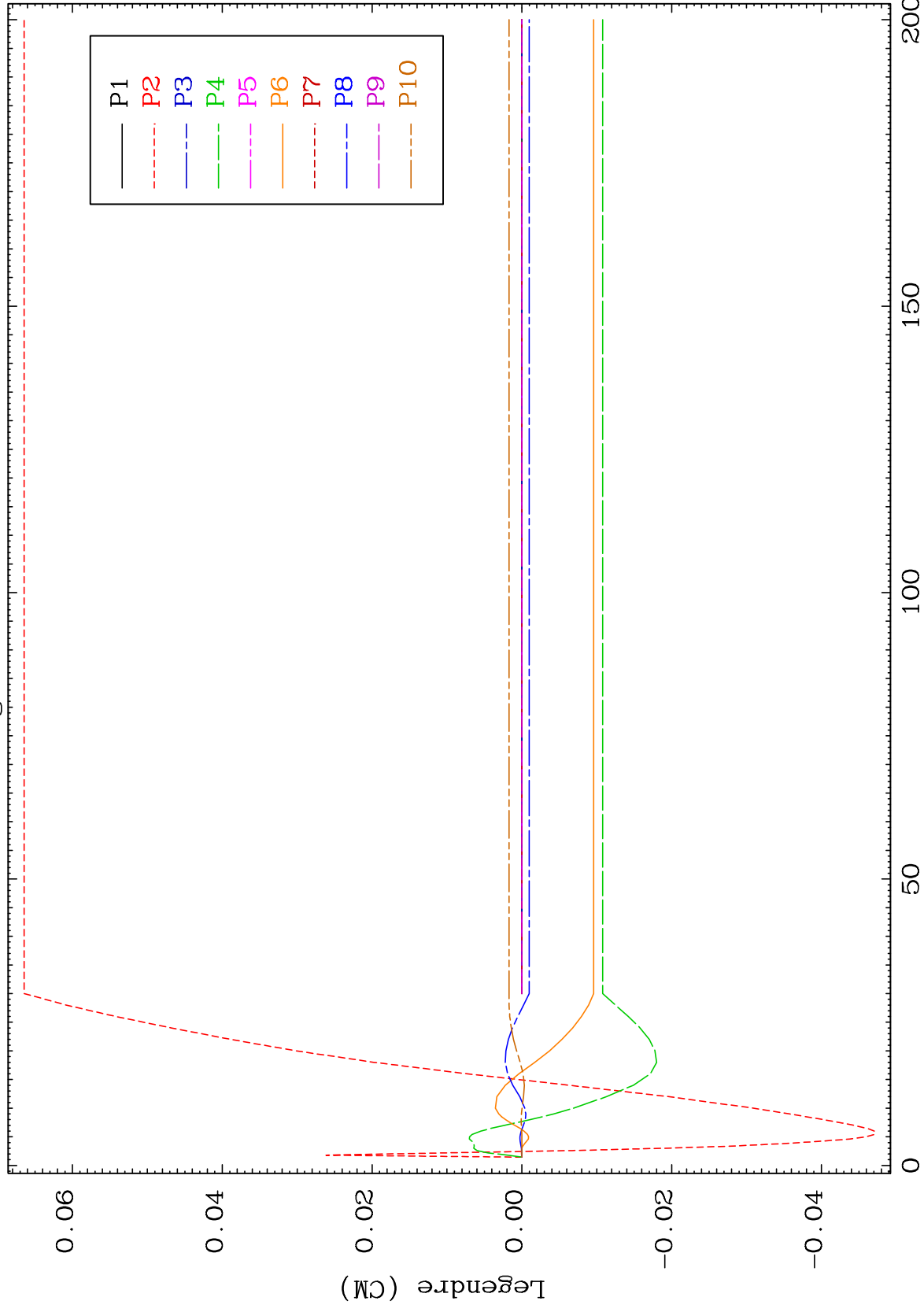
Incident Energy (MeV)

64-Gd-154

MAT 6431

1.433 MeV (n,n') Level  
Legendre Coefficients

64-Gd-154



92

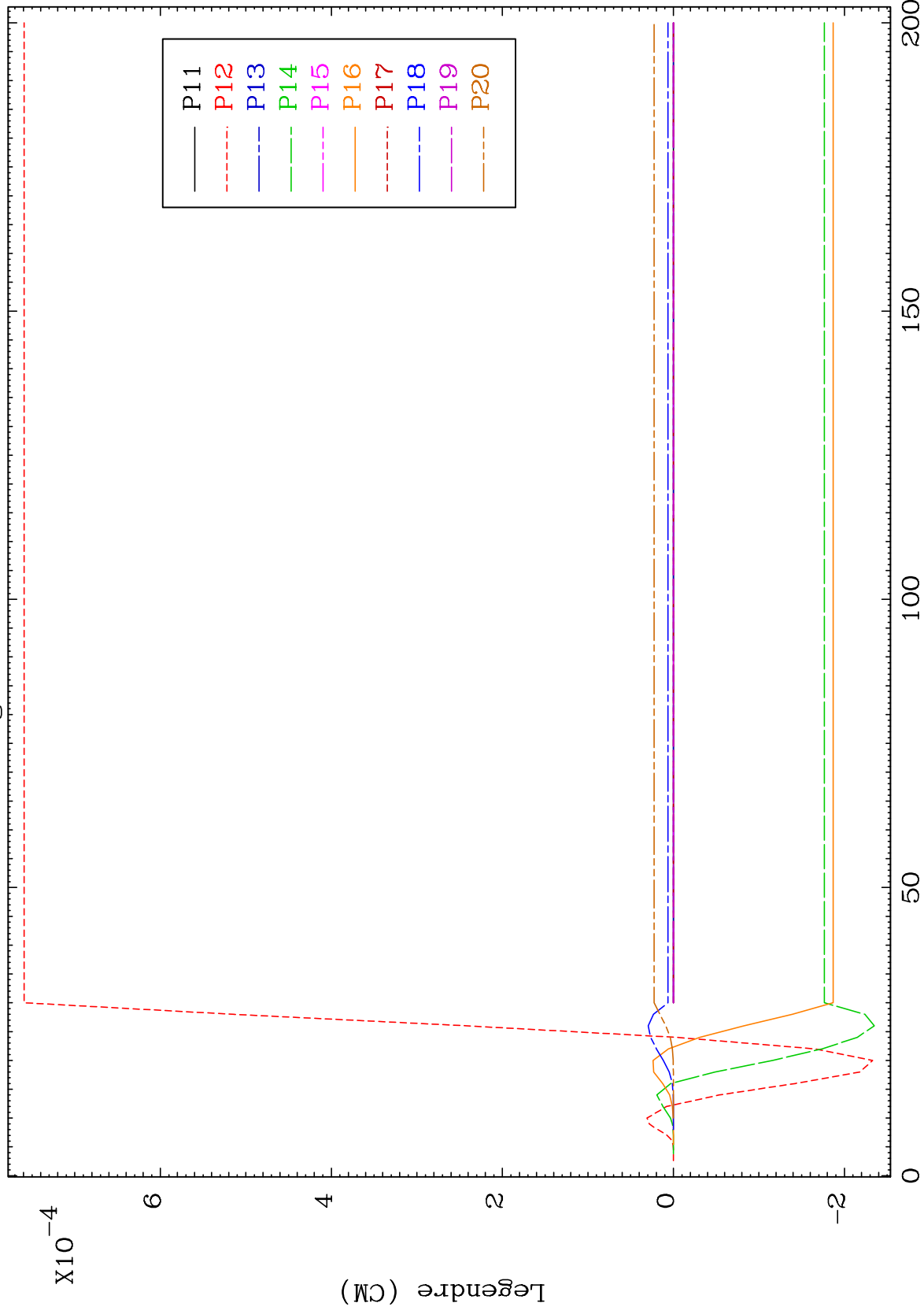
Incident Energy (MeV)

64-Gd-154

MAT 6431

1.433 MeV (n,n') Level  
Legendre Coefficients

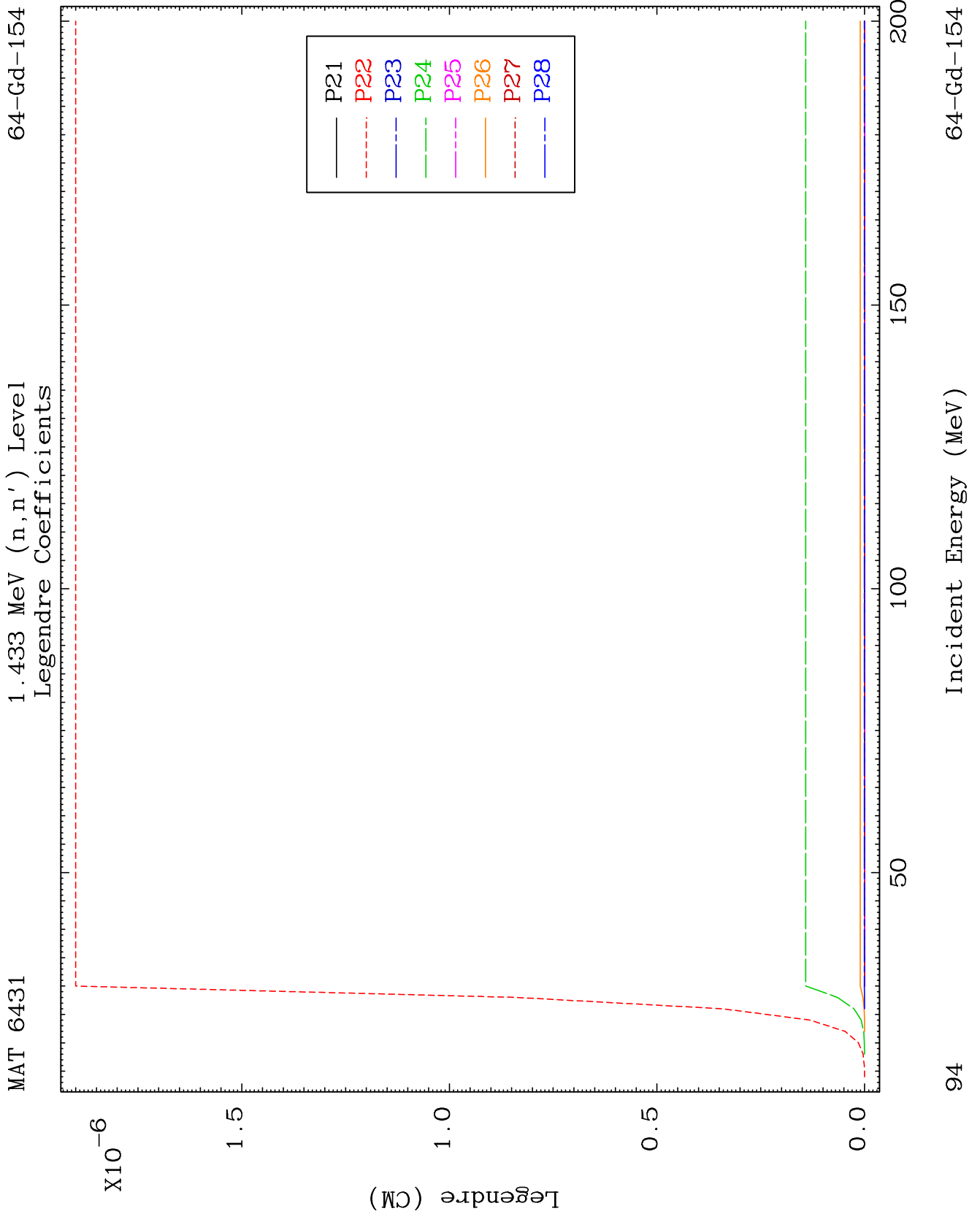
64-Gd-154

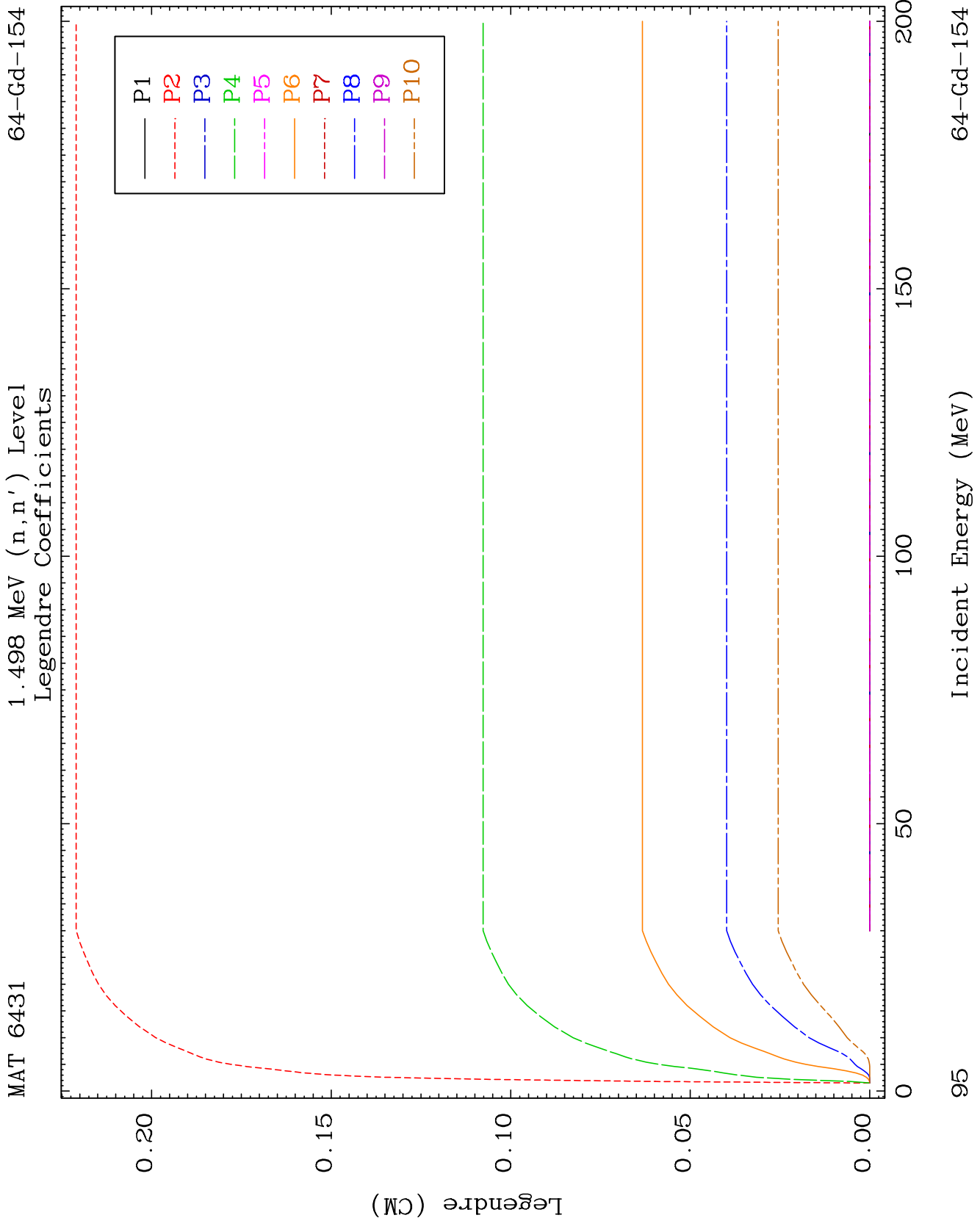


93

Incident Energy (MeV)

64-Gd-154



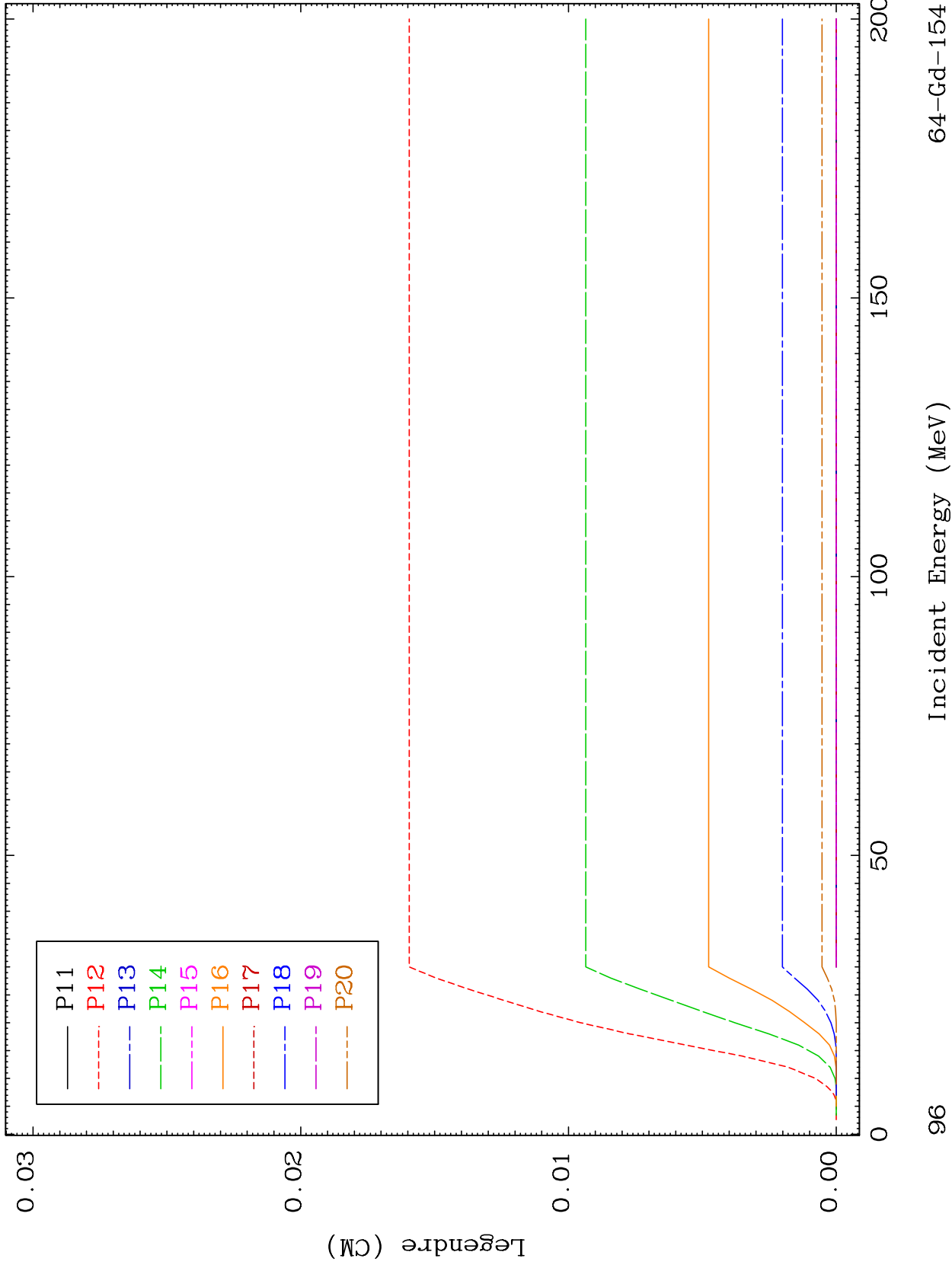




MAT 6431

1.498 MeV (n,n') Level  
Legendre Coefficients

64-Gd-154

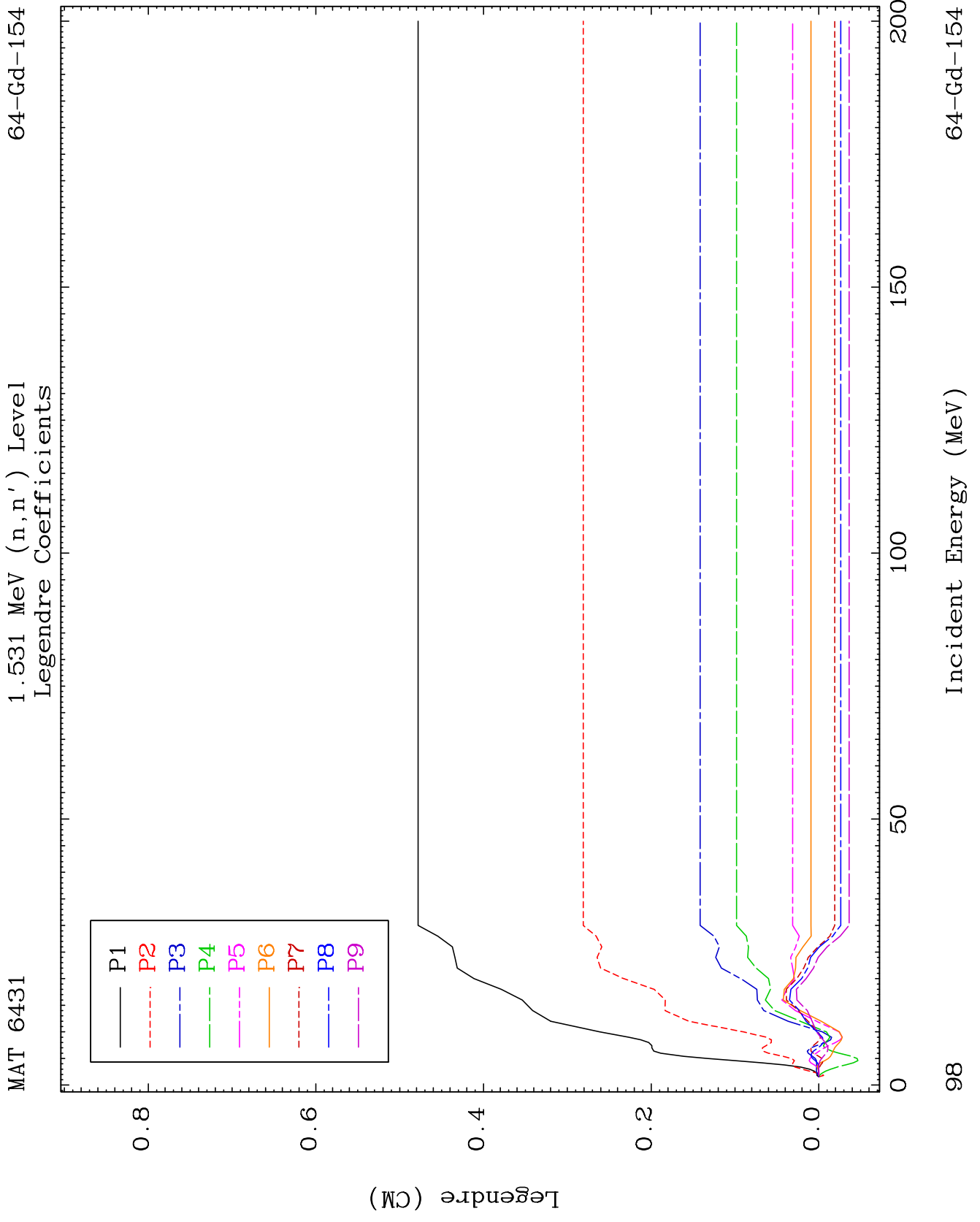


96

Incident Energy (MeV)

64-Gd-154

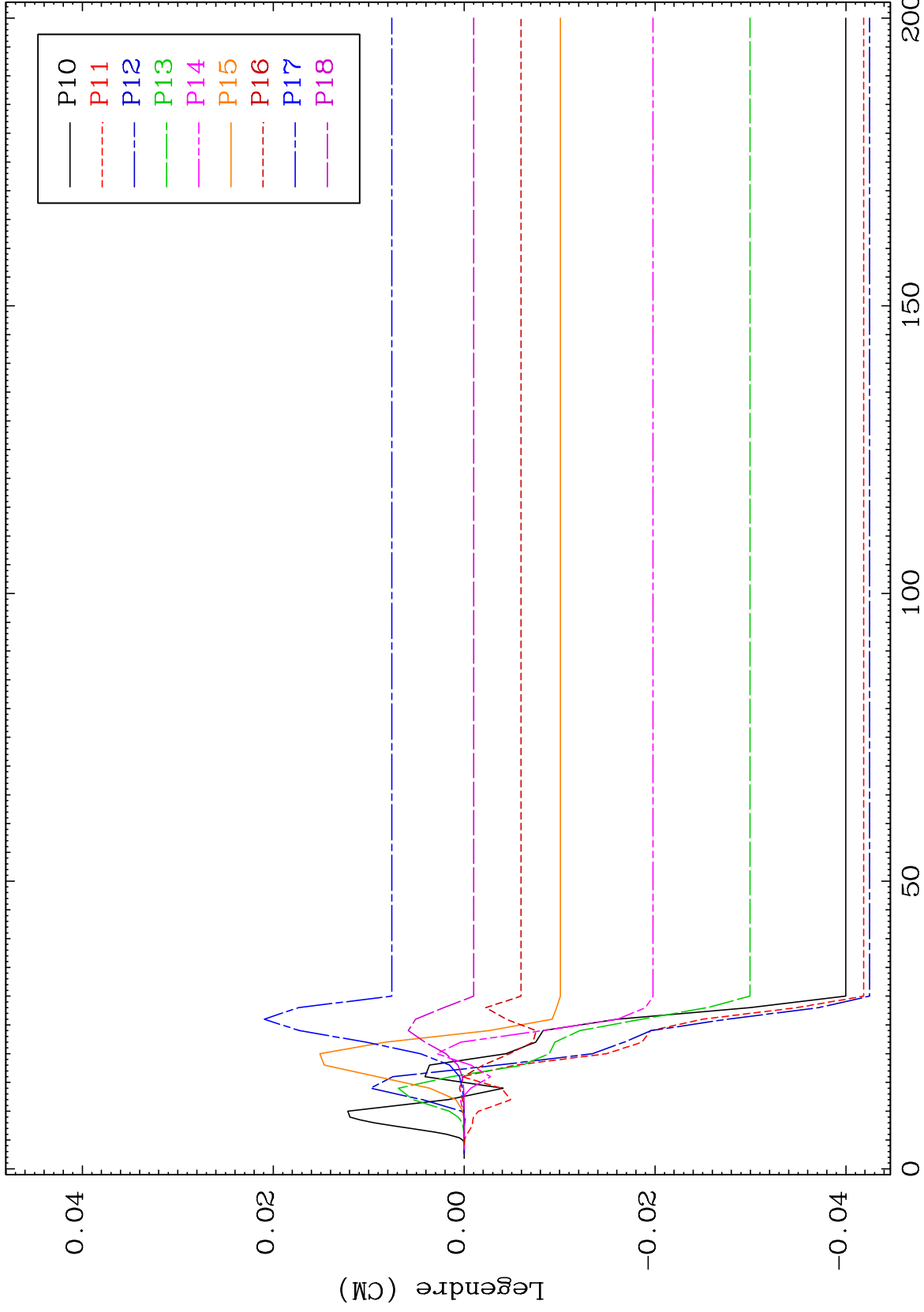




MAT 6431

1.531 MeV (n,n') Level  
Legendre Coefficients

64-Gd-154

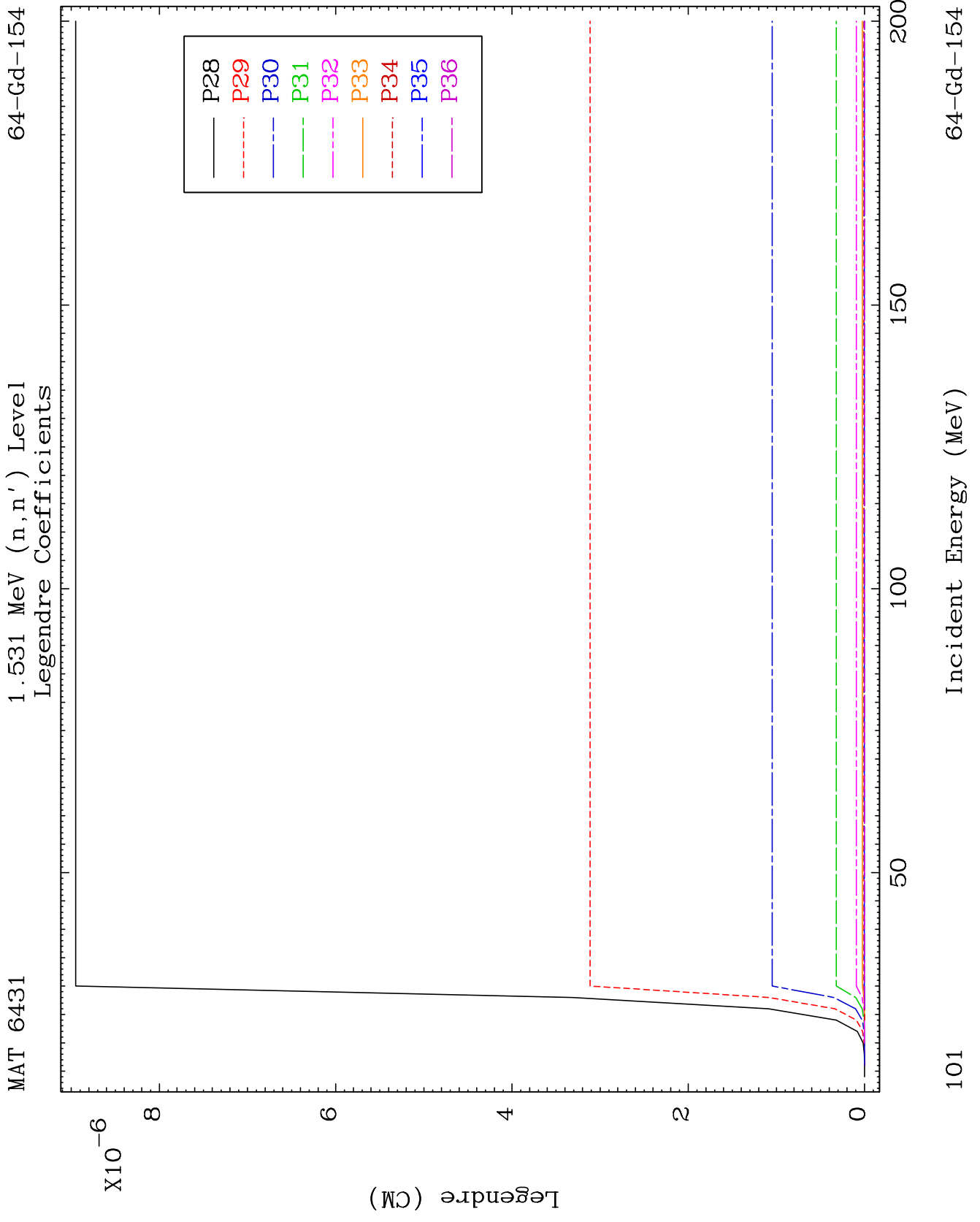


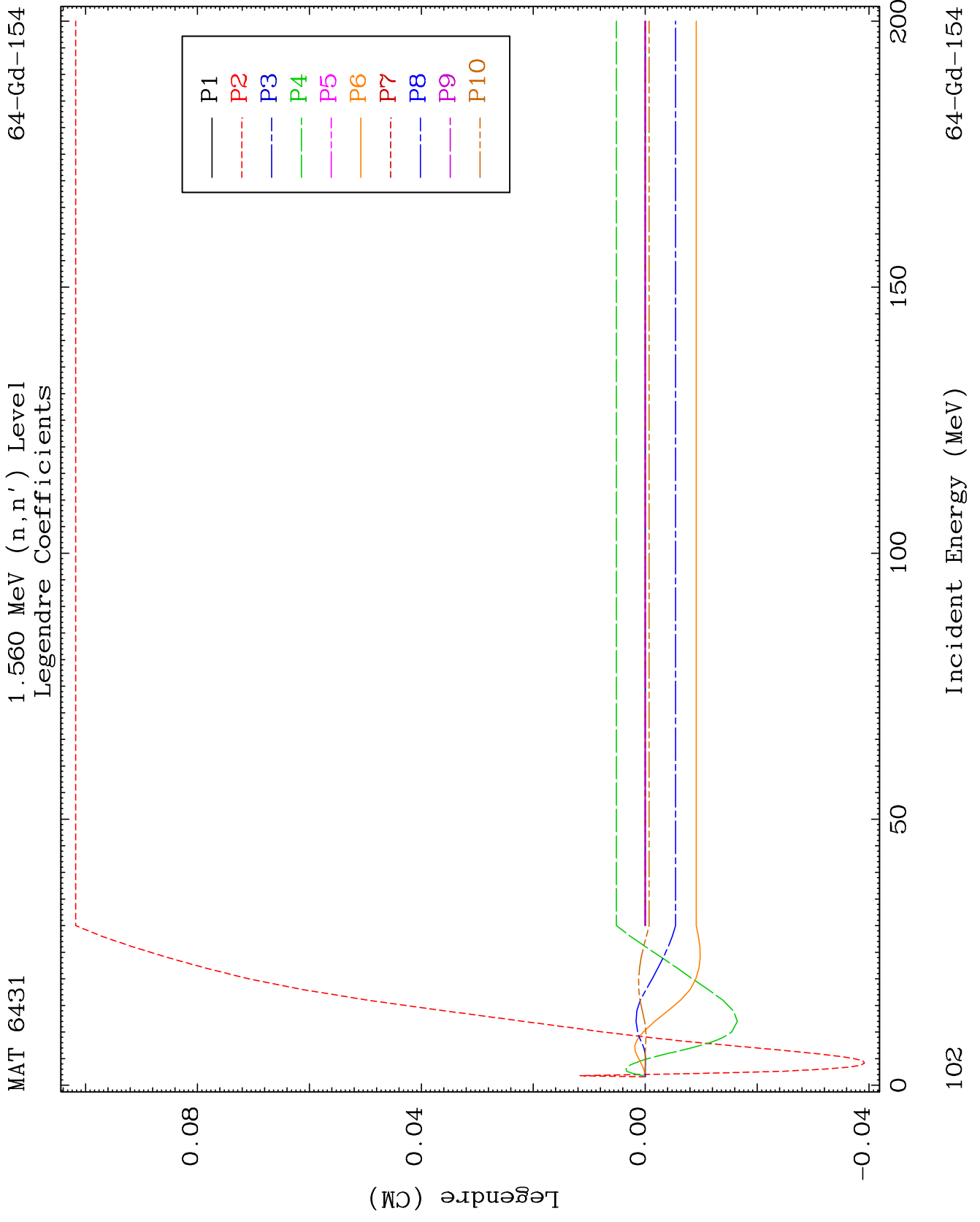
99

Incident Energy (MeV)

64-Gd-154

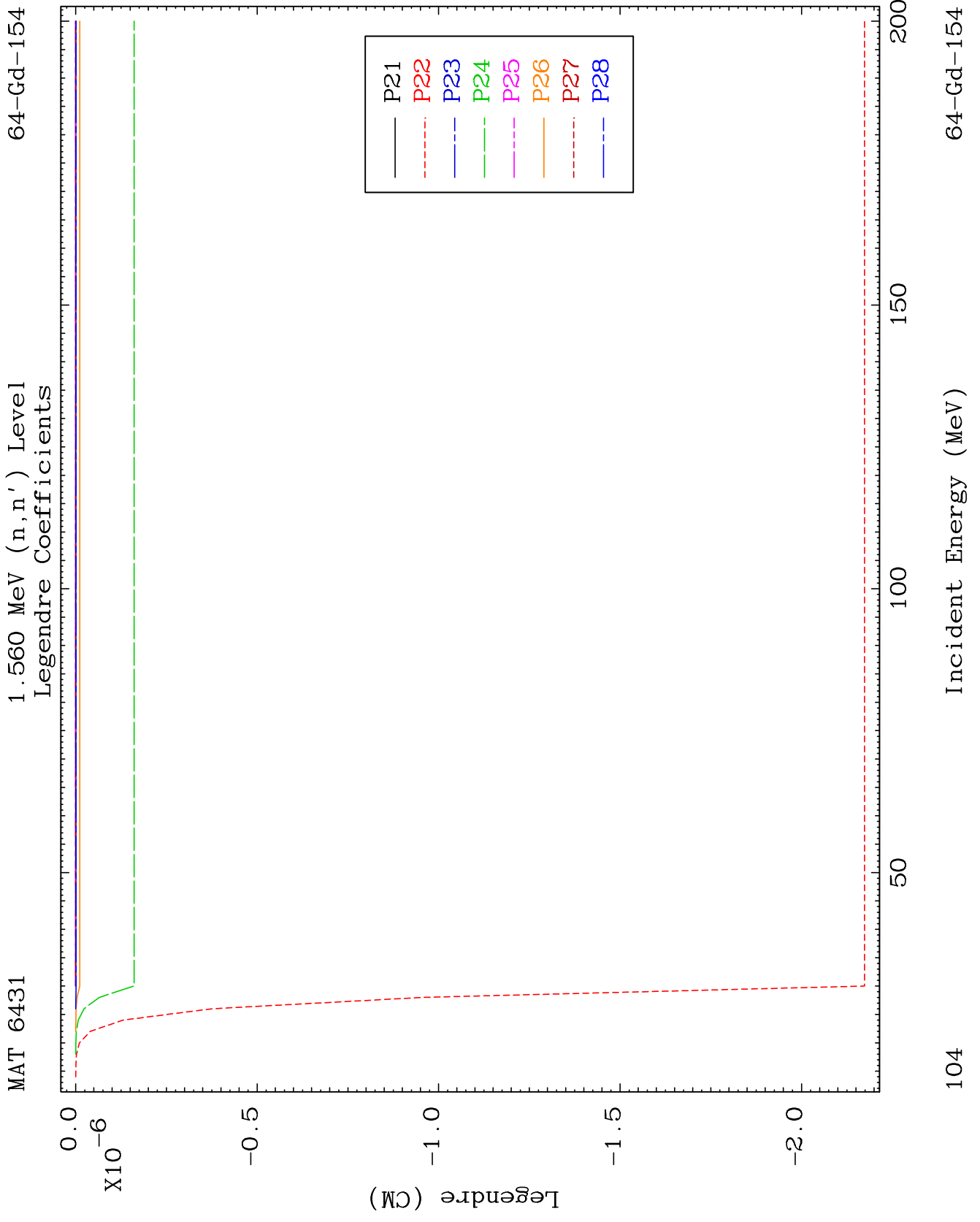


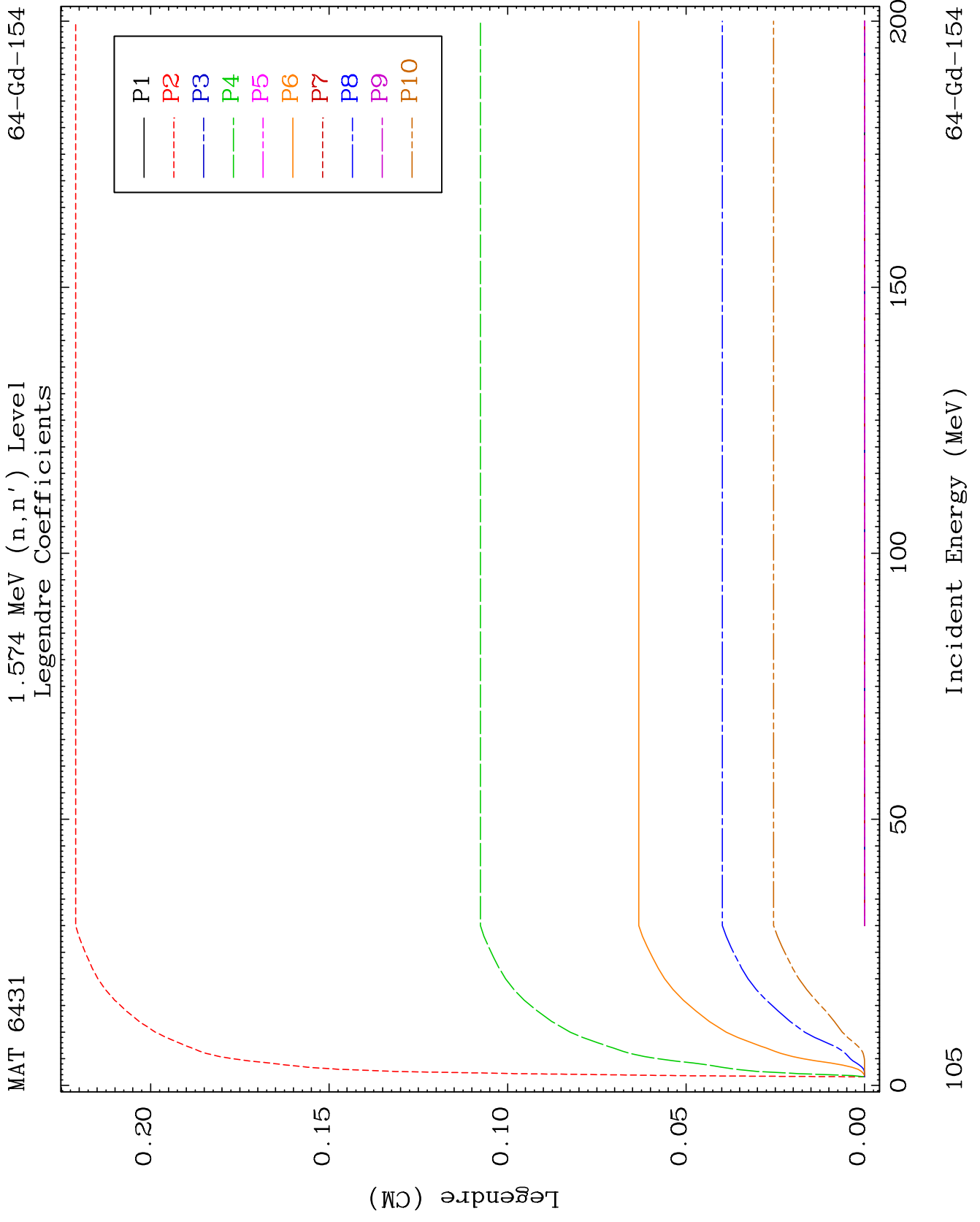








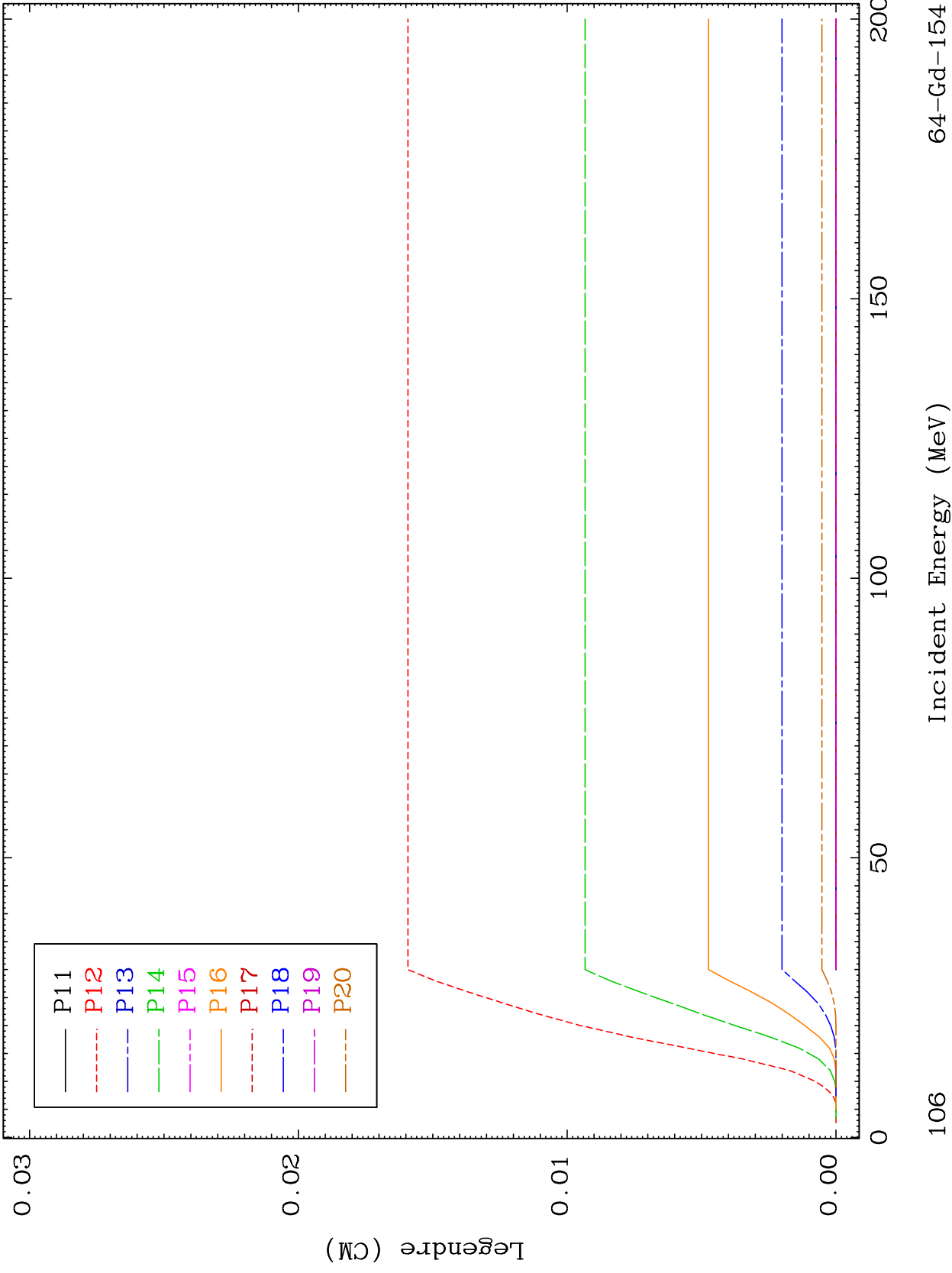




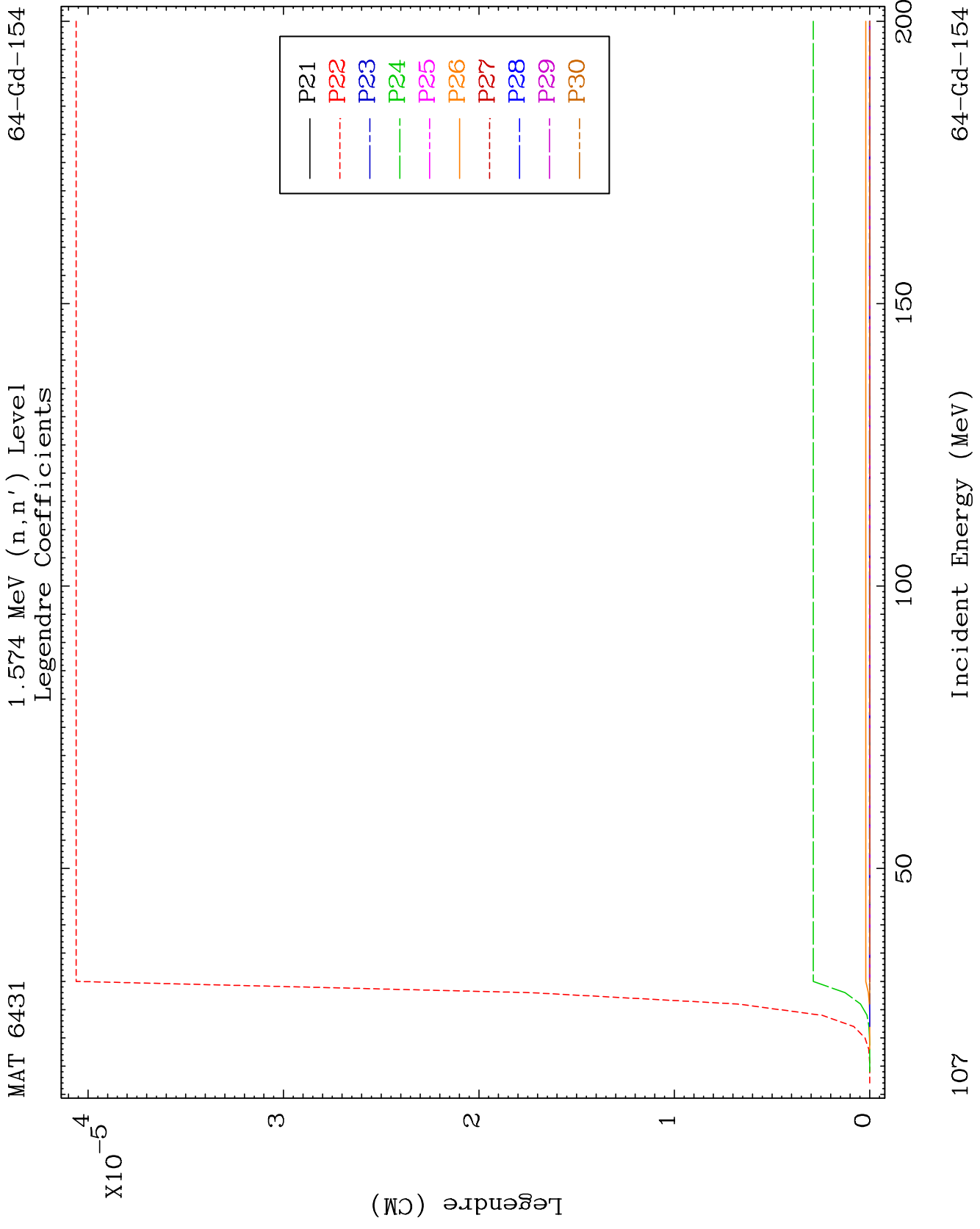
MAT 6431

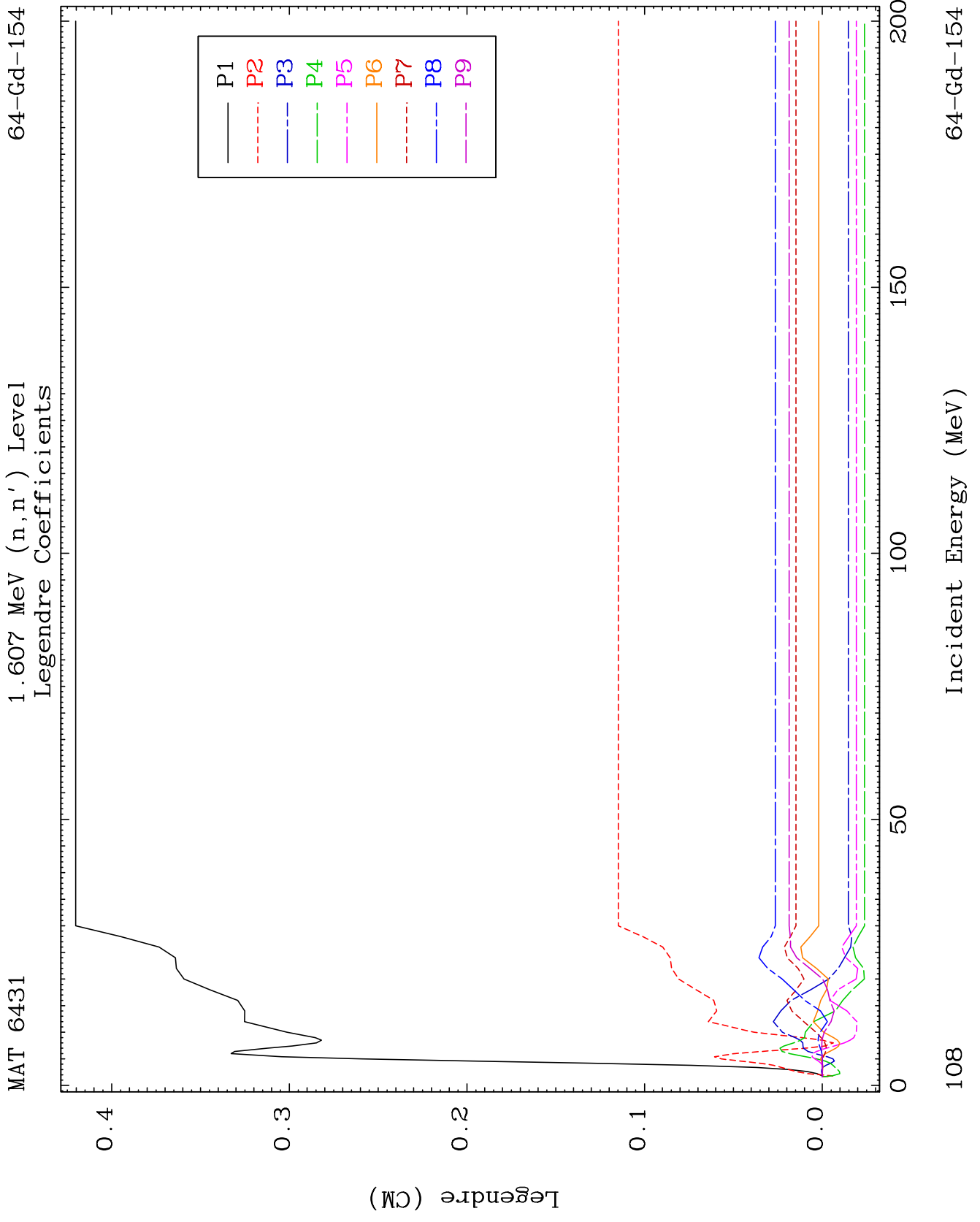
1.574 MeV (n,n') Level  
Legendre Coefficients

64-Gd-154



106

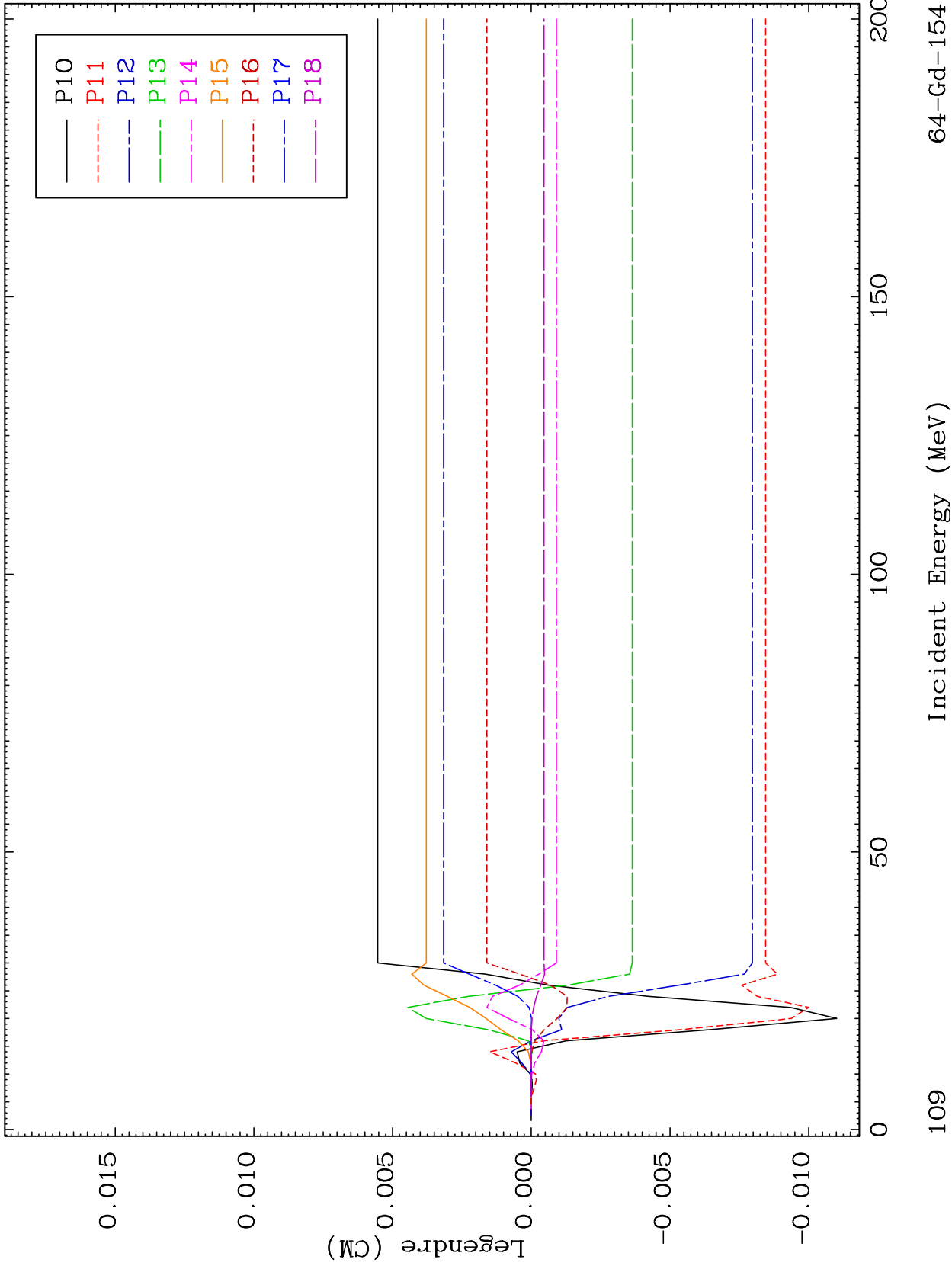




MAT 6431

1.607 MeV (n,n') Level  
Legendre Coefficients

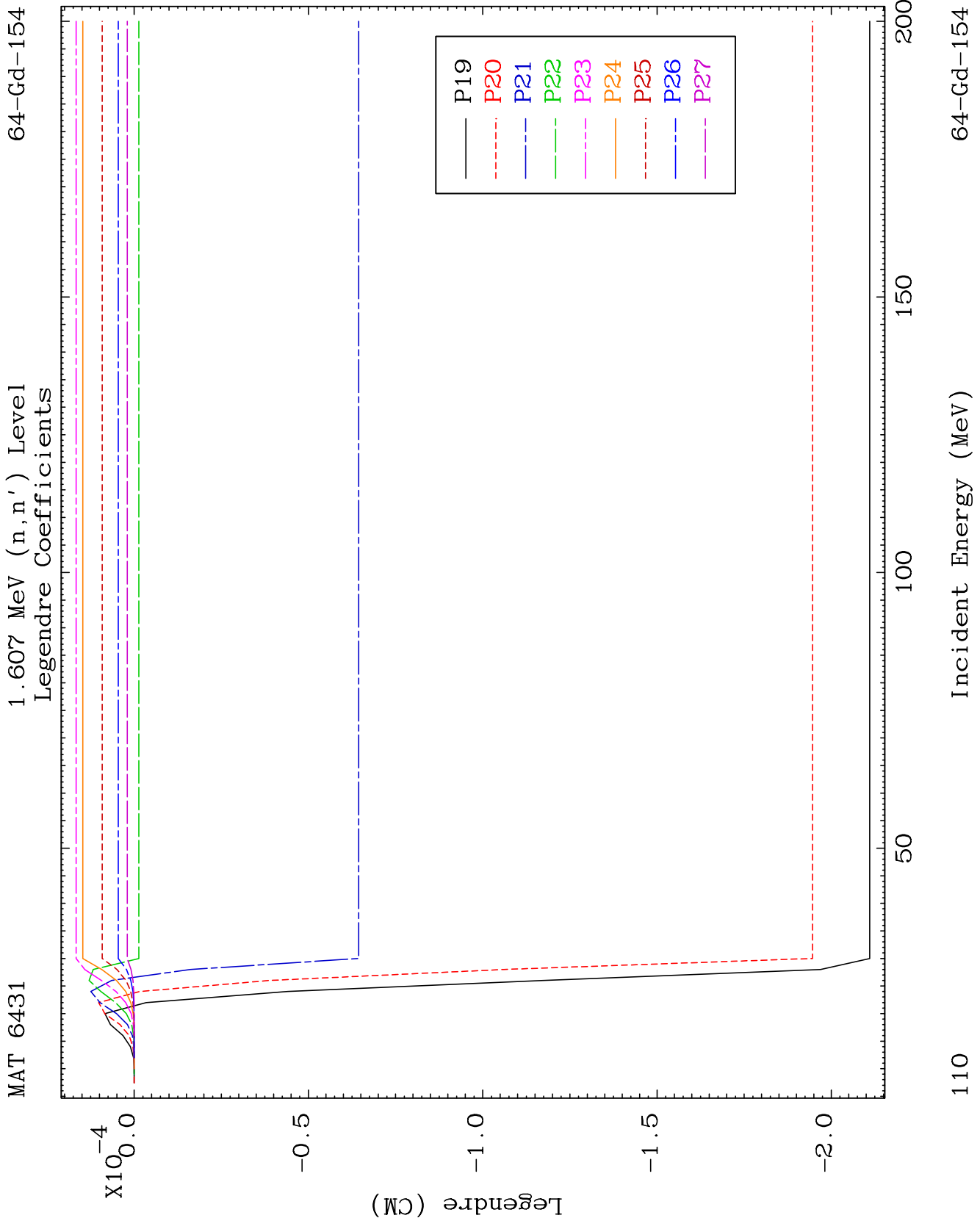
64-Gd-154



109

Incident Energy (MeV)

64-Gd-154



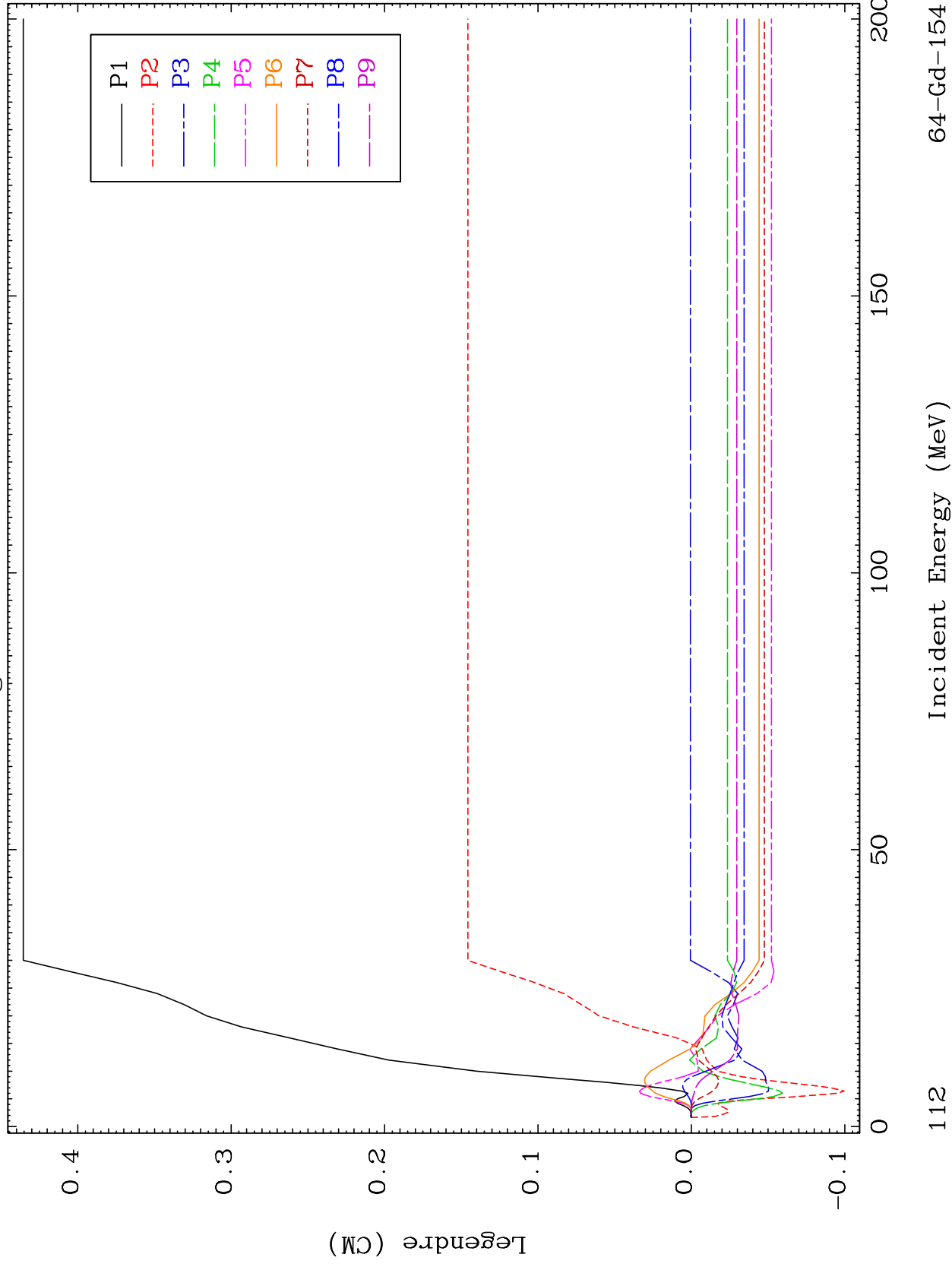




MAT 6431

1.617 MeV (n,n') Level  
Legendre Coefficients

64-Gd-154



64-Gd-154

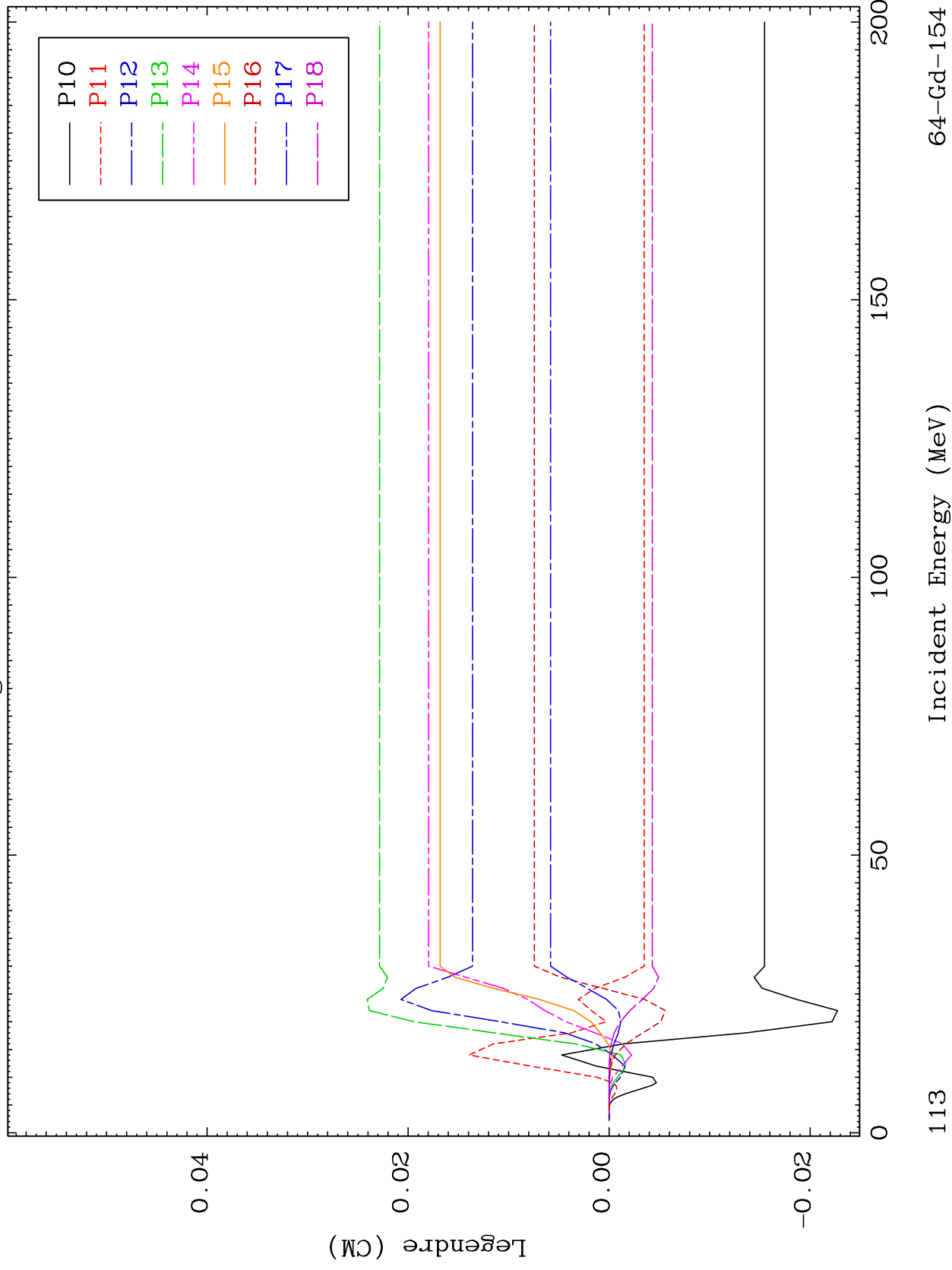
Incident Energy (MeV)

112

MAT 6431

1.617 MeV (n,n') Level  
Legendre Coefficients

64-Gd-154



113

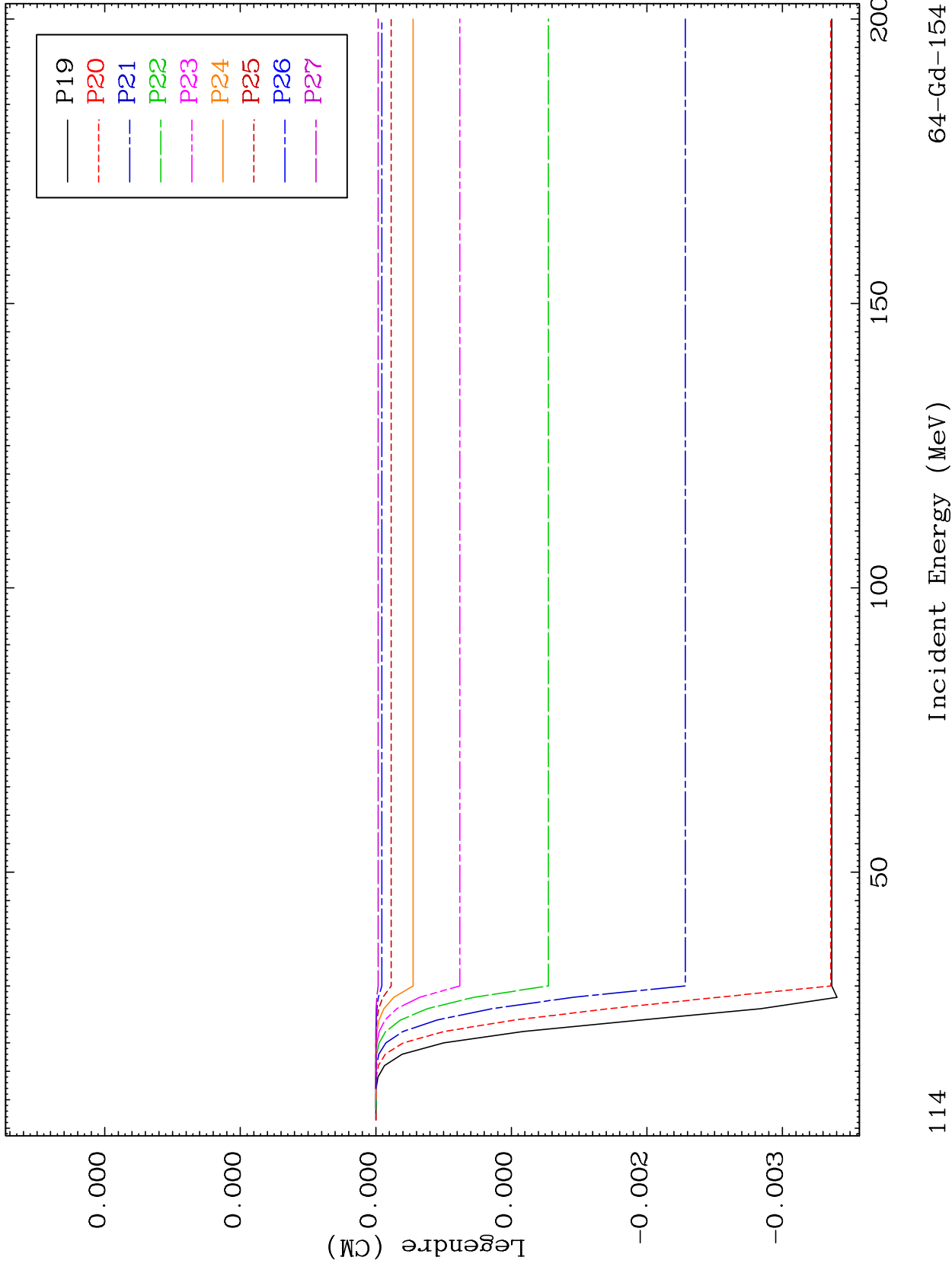
Incident Energy (MeV)

64-Gd-154

MAT 6431

1.617 MeV (n,n') Level  
Legendre Coefficients

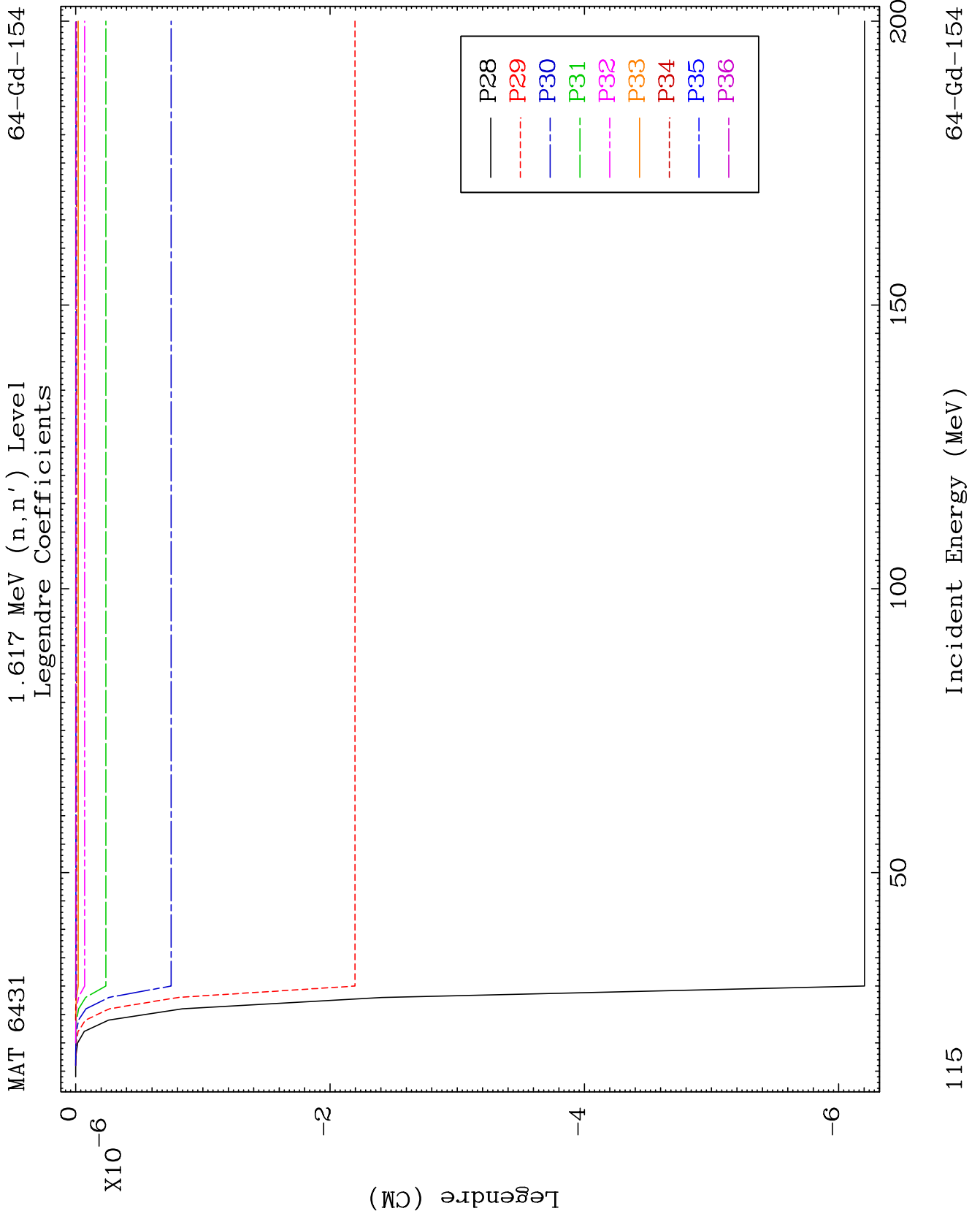
64-Gd-154

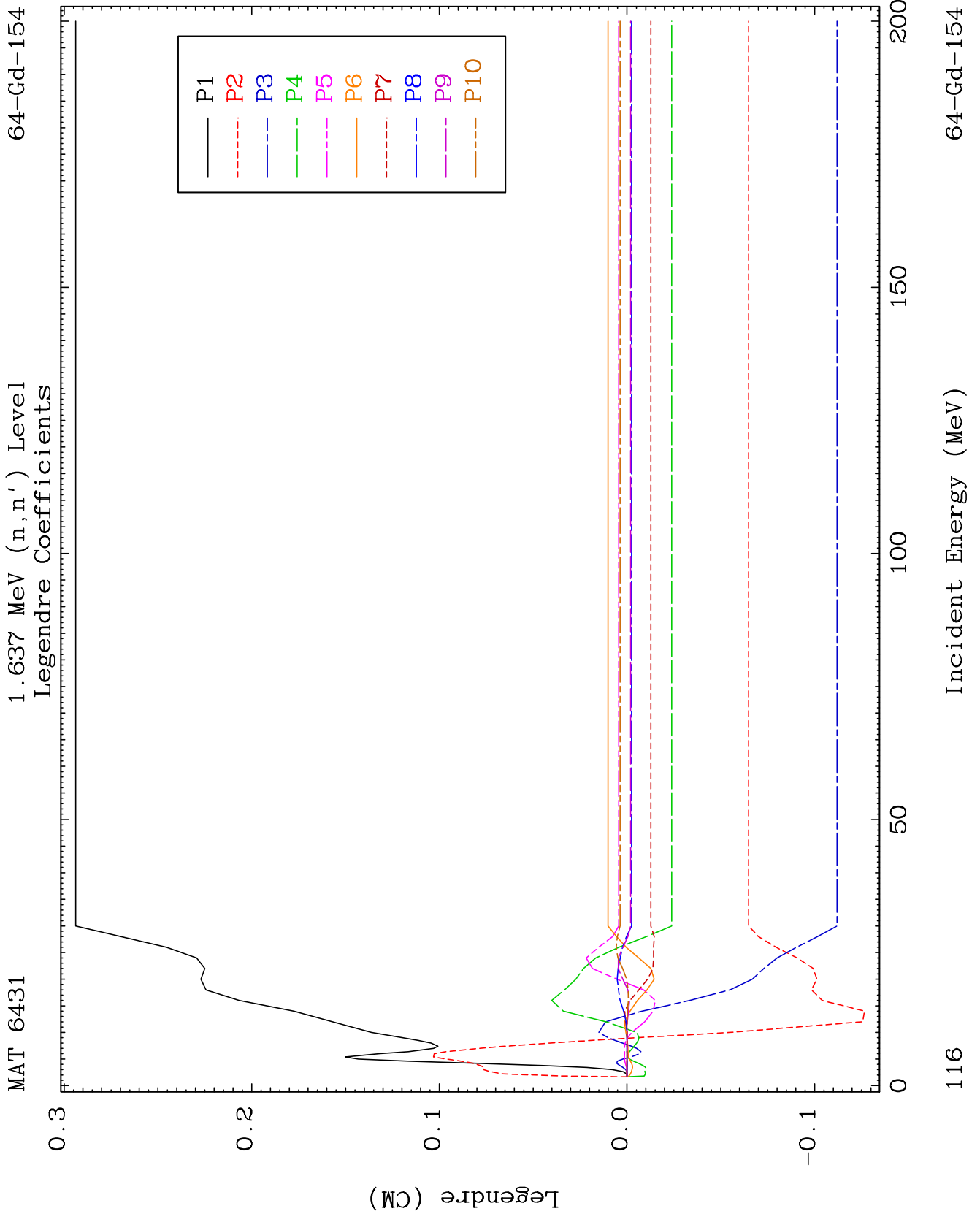


114

Incident Energy (MeV)

64-Gd-154

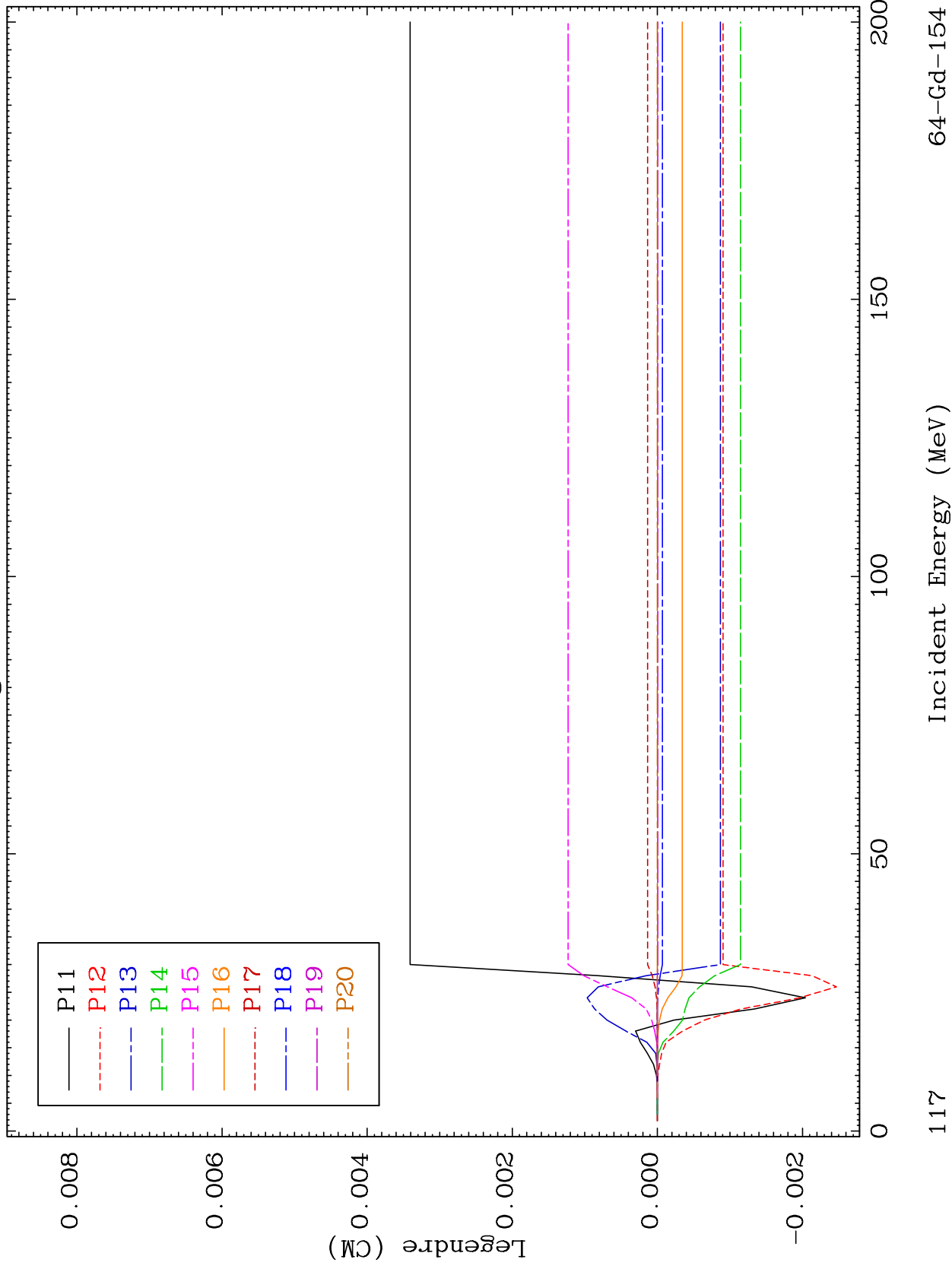




MAT 6431

1.637 MeV (n, n') Level  
Legendre Coefficients

64-Gd-154



117

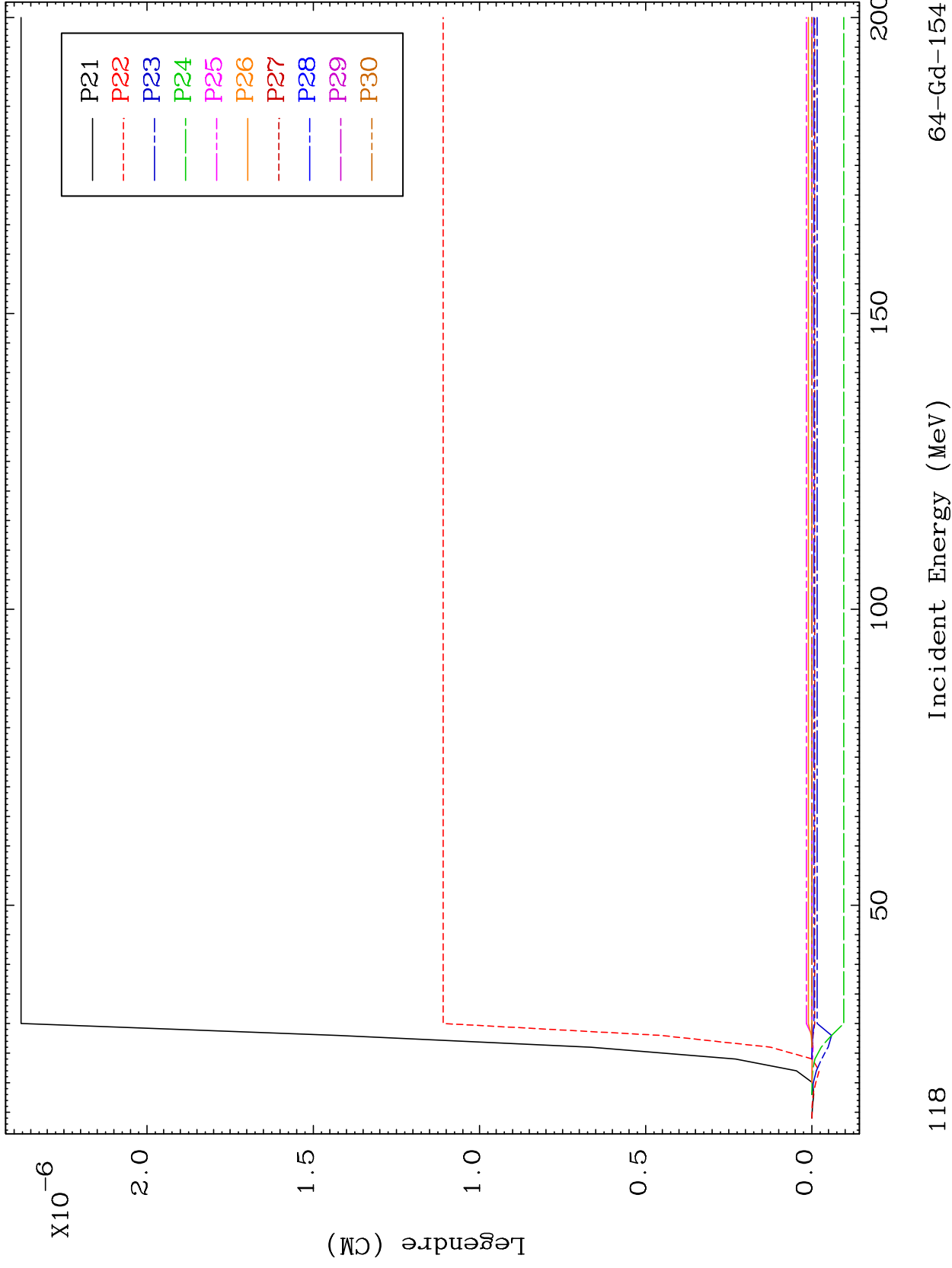
Incident Energy (MeV)

64-Gd-154

MAT 6431

1.637 MeV (n,n') Level  
Legendre Coefficients

64-Gd-154



118

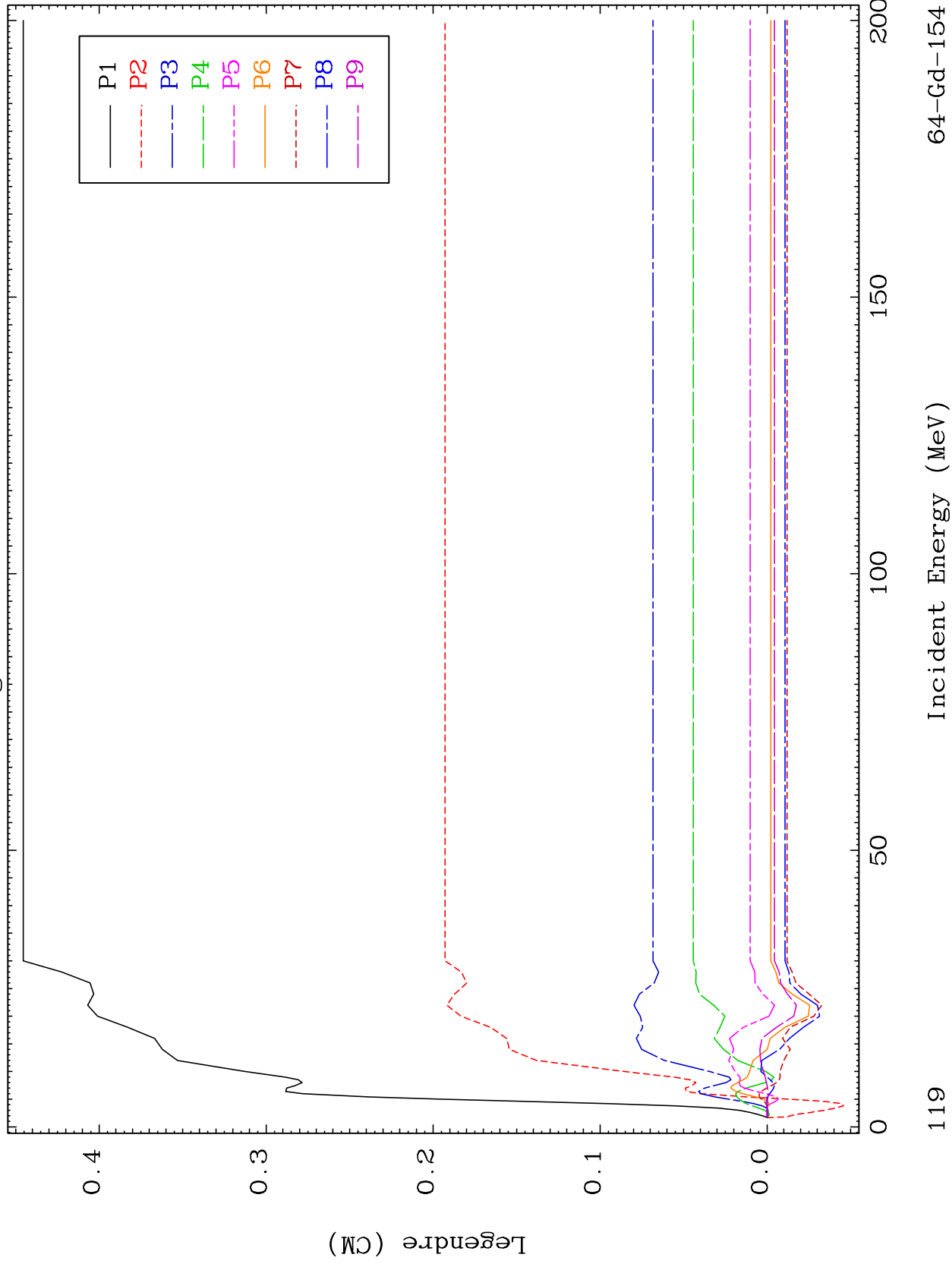
Incident Energy (MeV)

64-Gd-154

MAT 6431

1.646 MeV (n,n') Level  
Legendre Coefficients

64-Gd-154

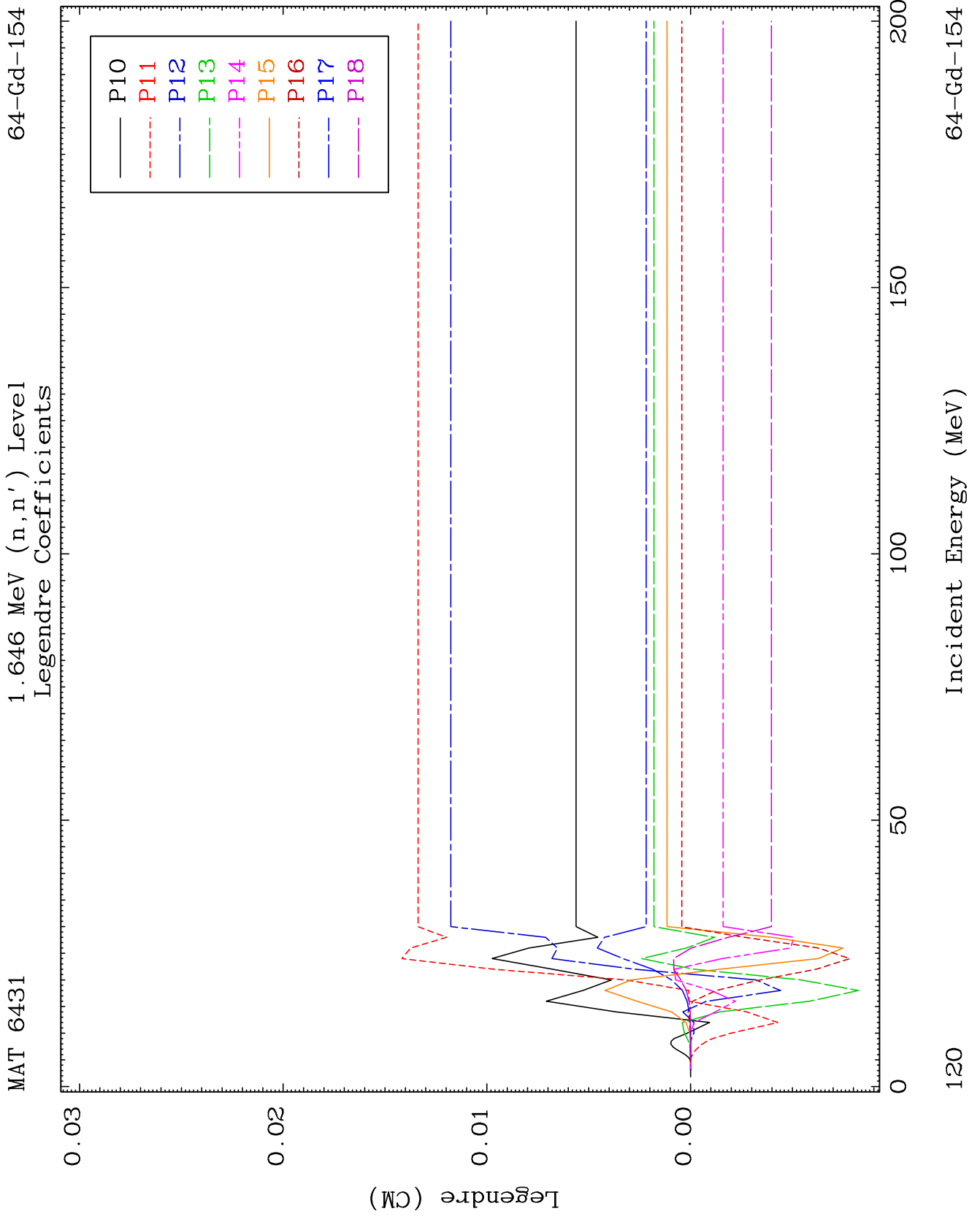


64-Gd-154

Incident Energy (MeV)

119

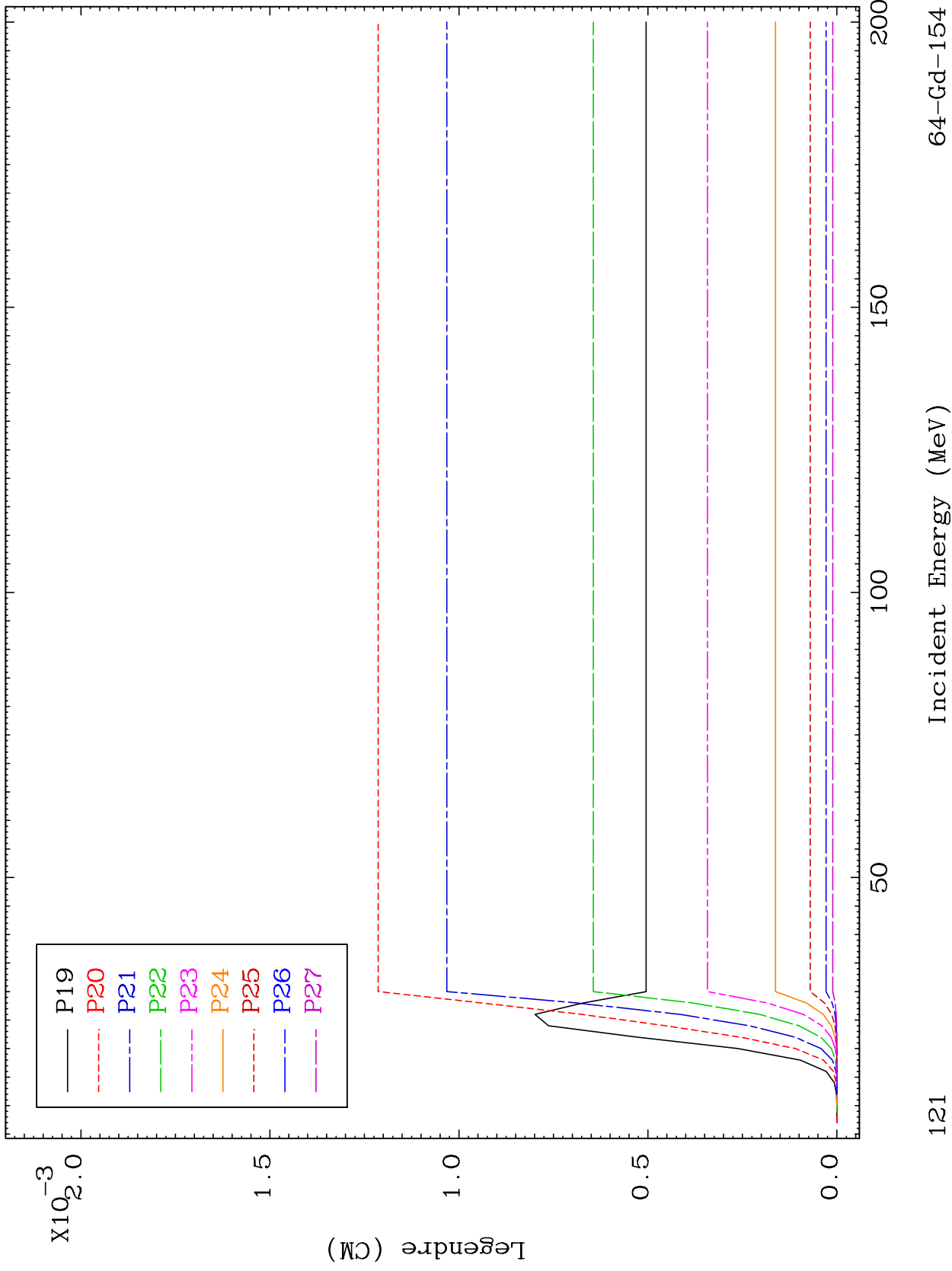




MAT 6431

1.646 MeV (n, n') Level  
Legendre Coefficients

64-Gd-154



121

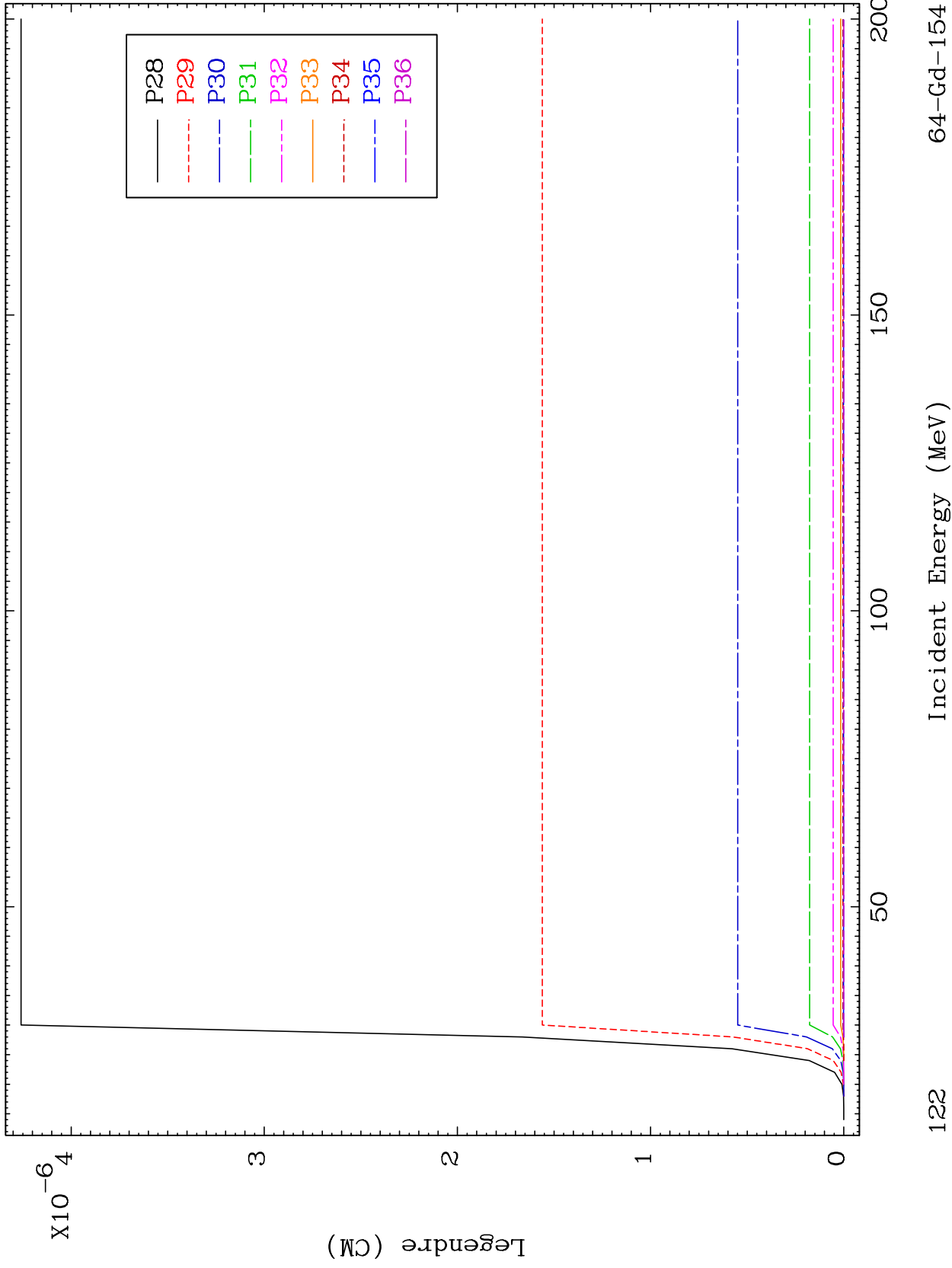
Incident Energy (MeV)

64-Gd-154

MAT 6431

1.646 MeV (n,n') Level  
Legendre Coefficients

64-Gd-154



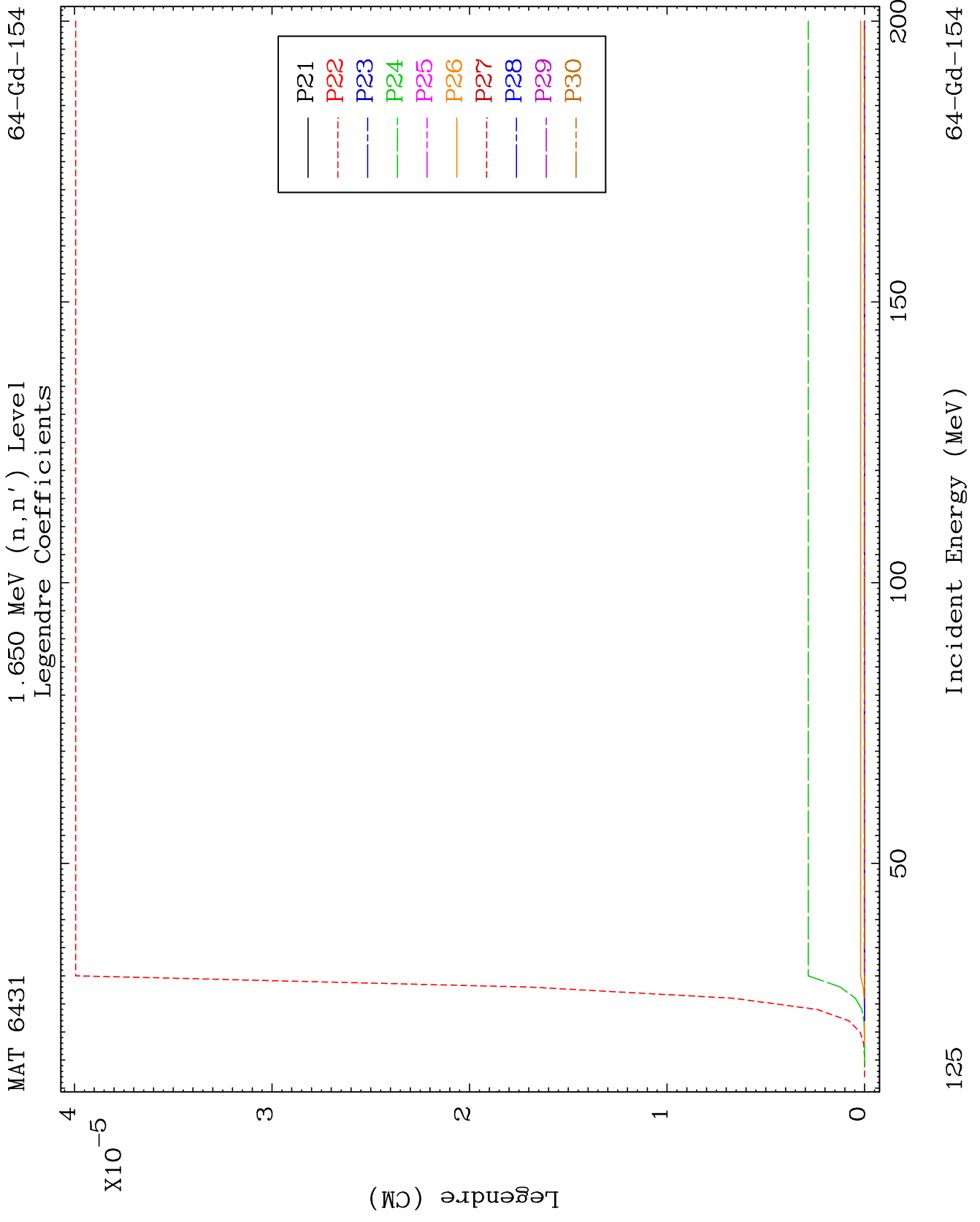
122

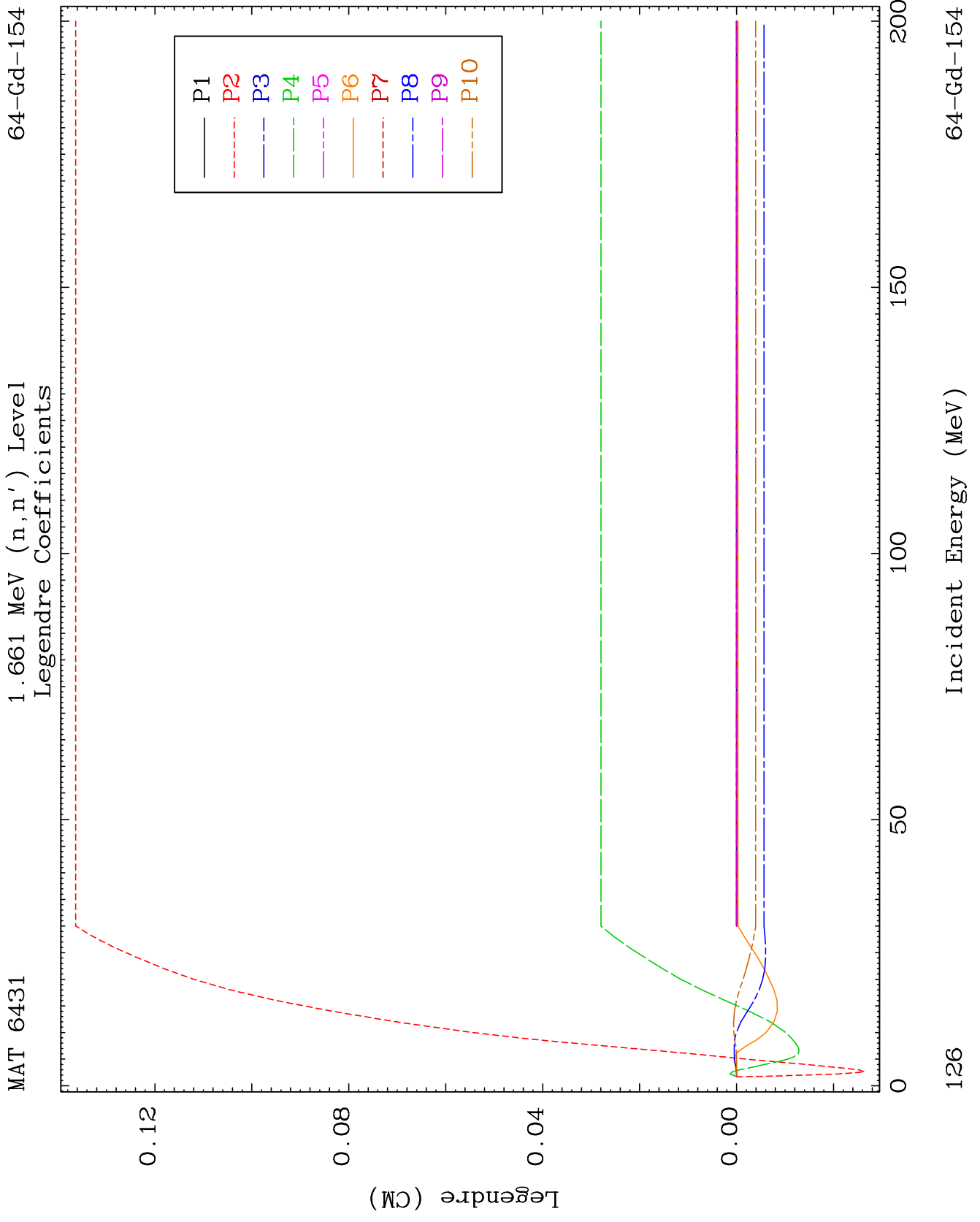
Incident Energy (MeV)

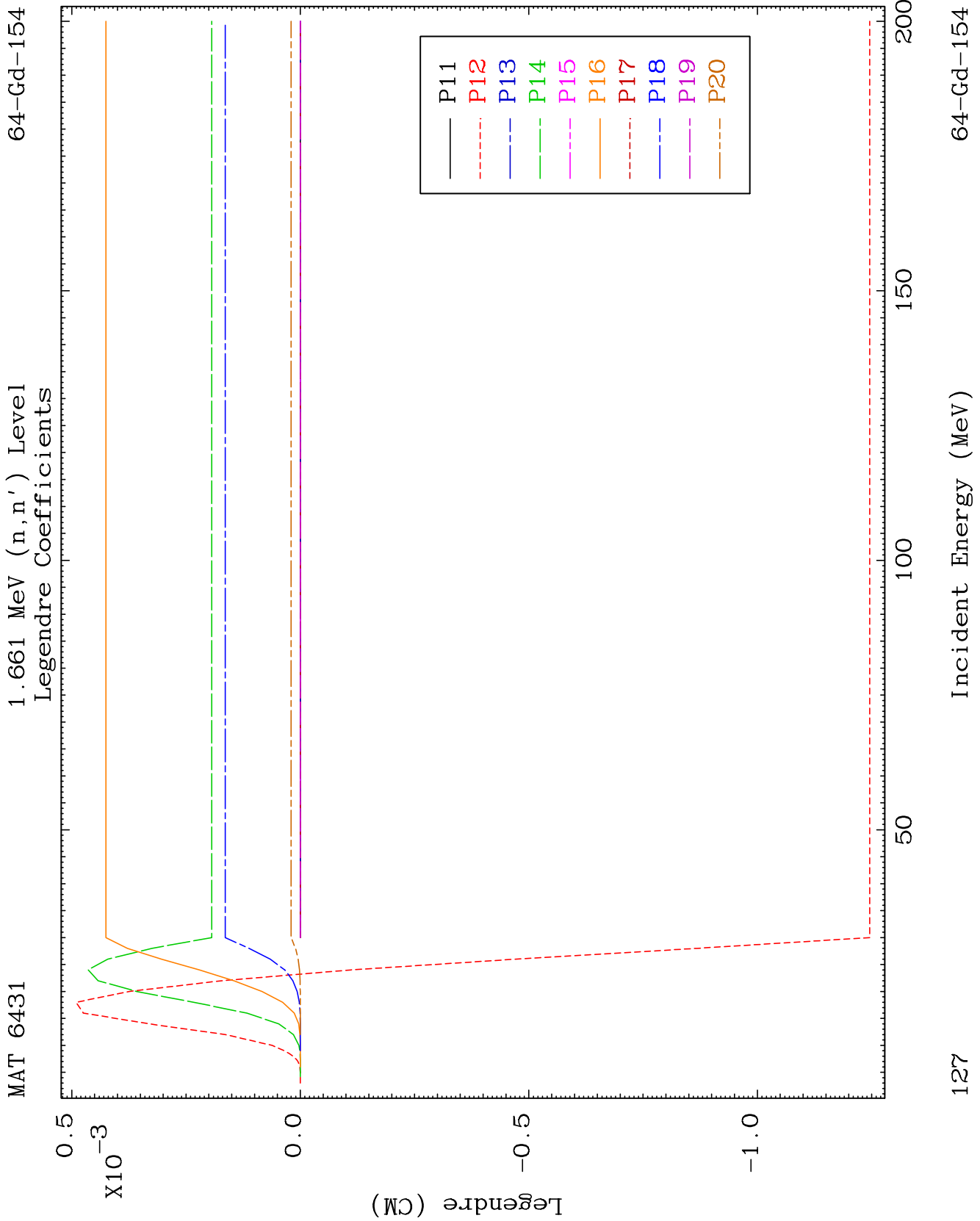
64-Gd-154



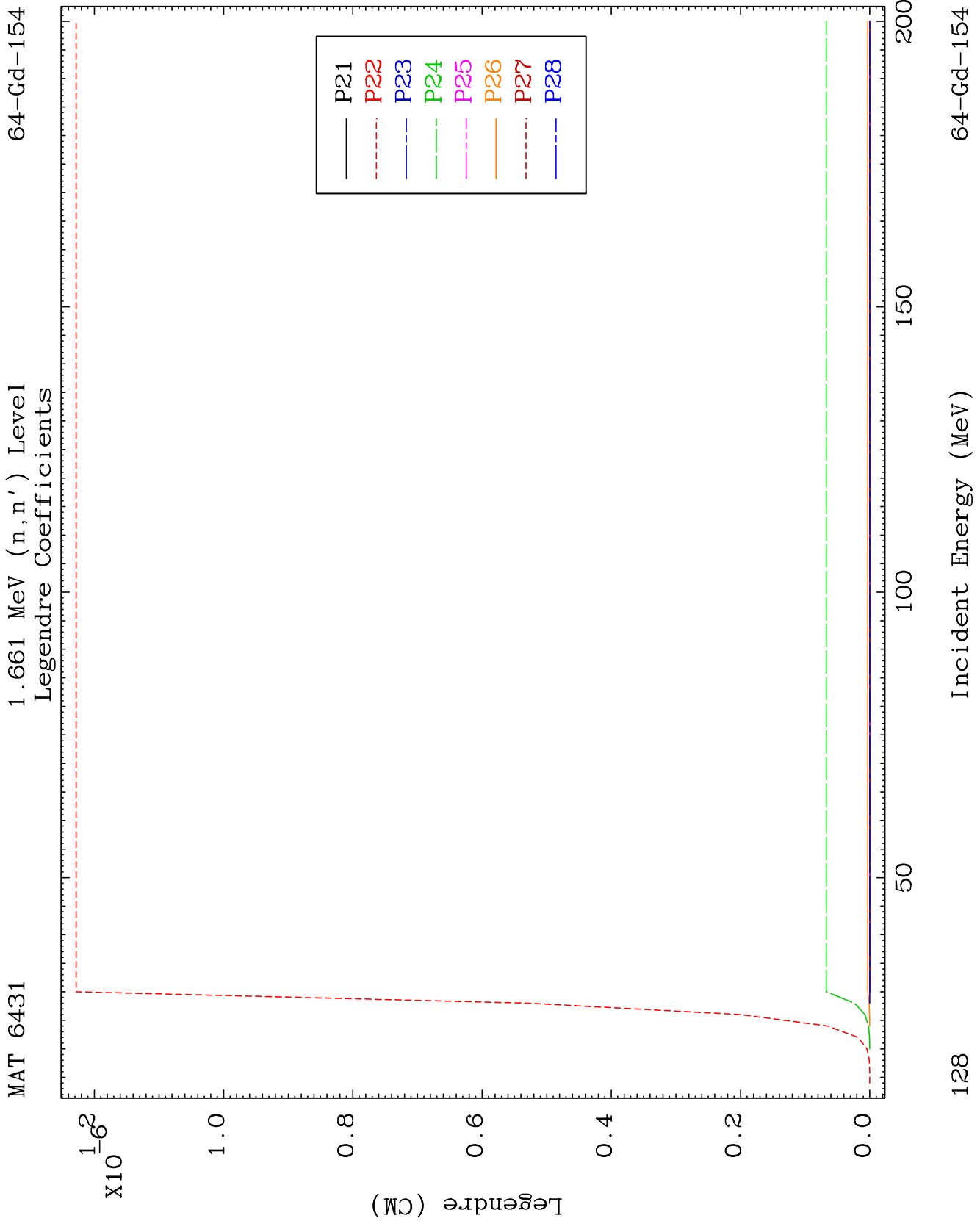




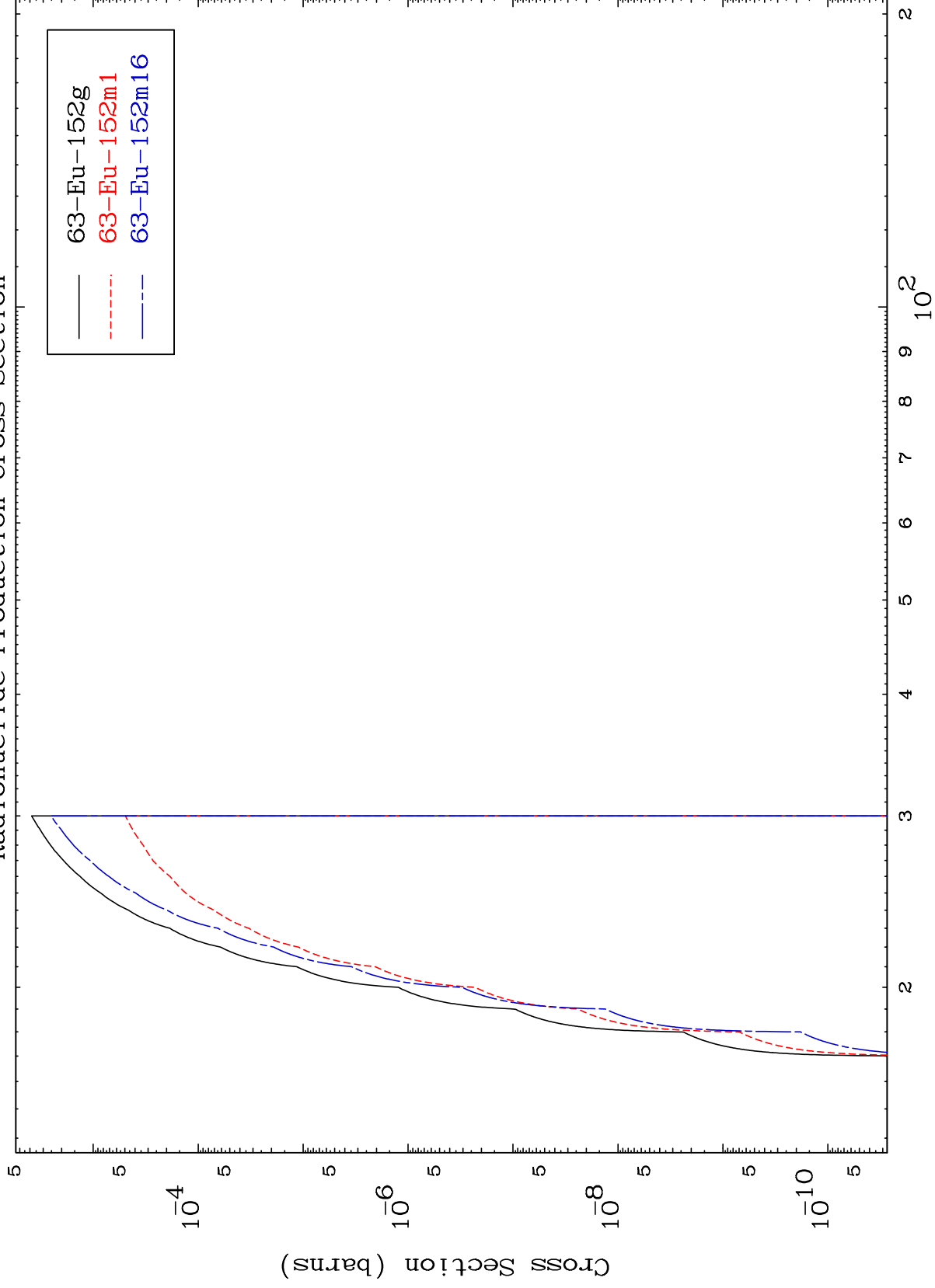








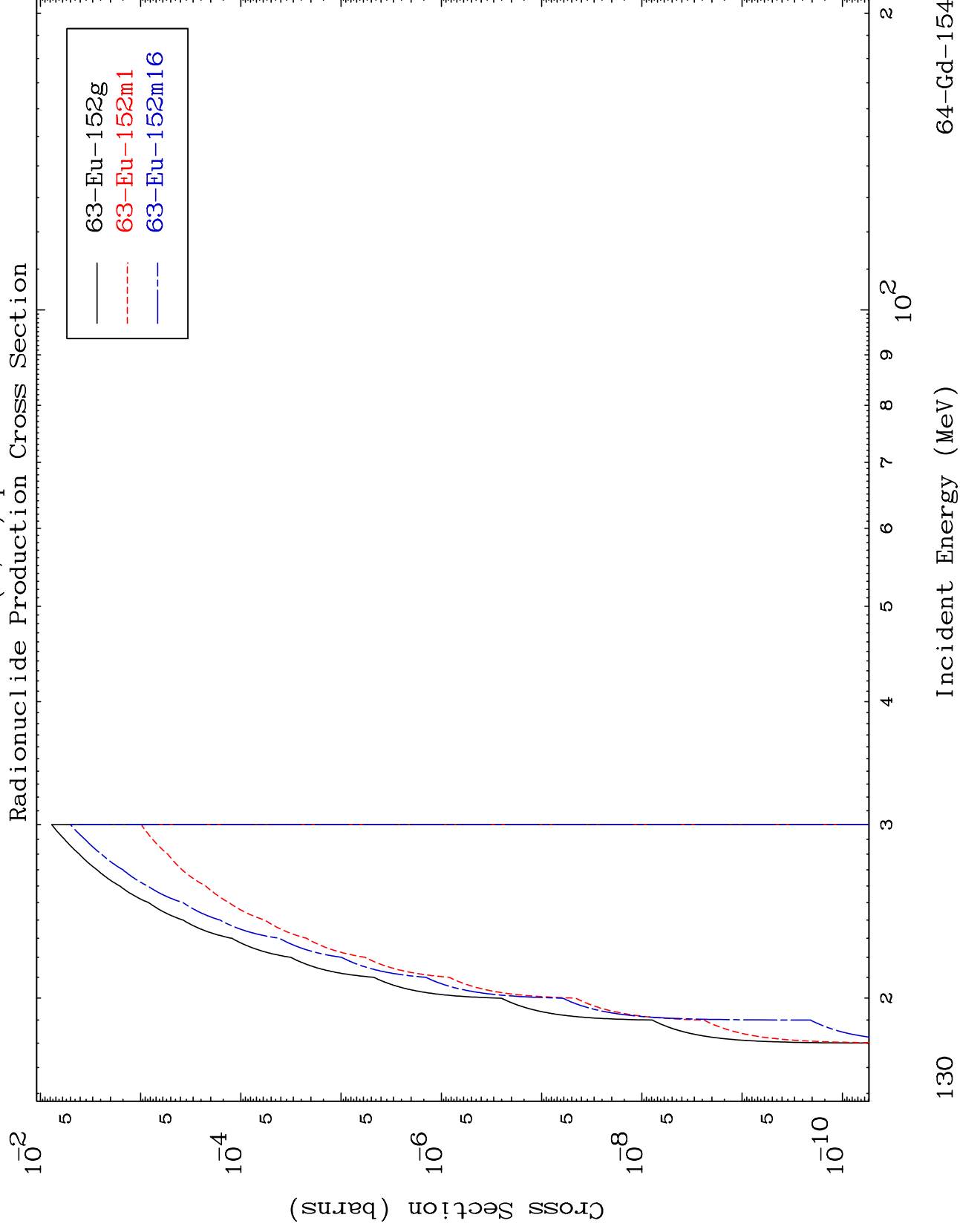
Radionuclide Production Cross Section



MAT 6431

(n,2n) p

64-Gd-154



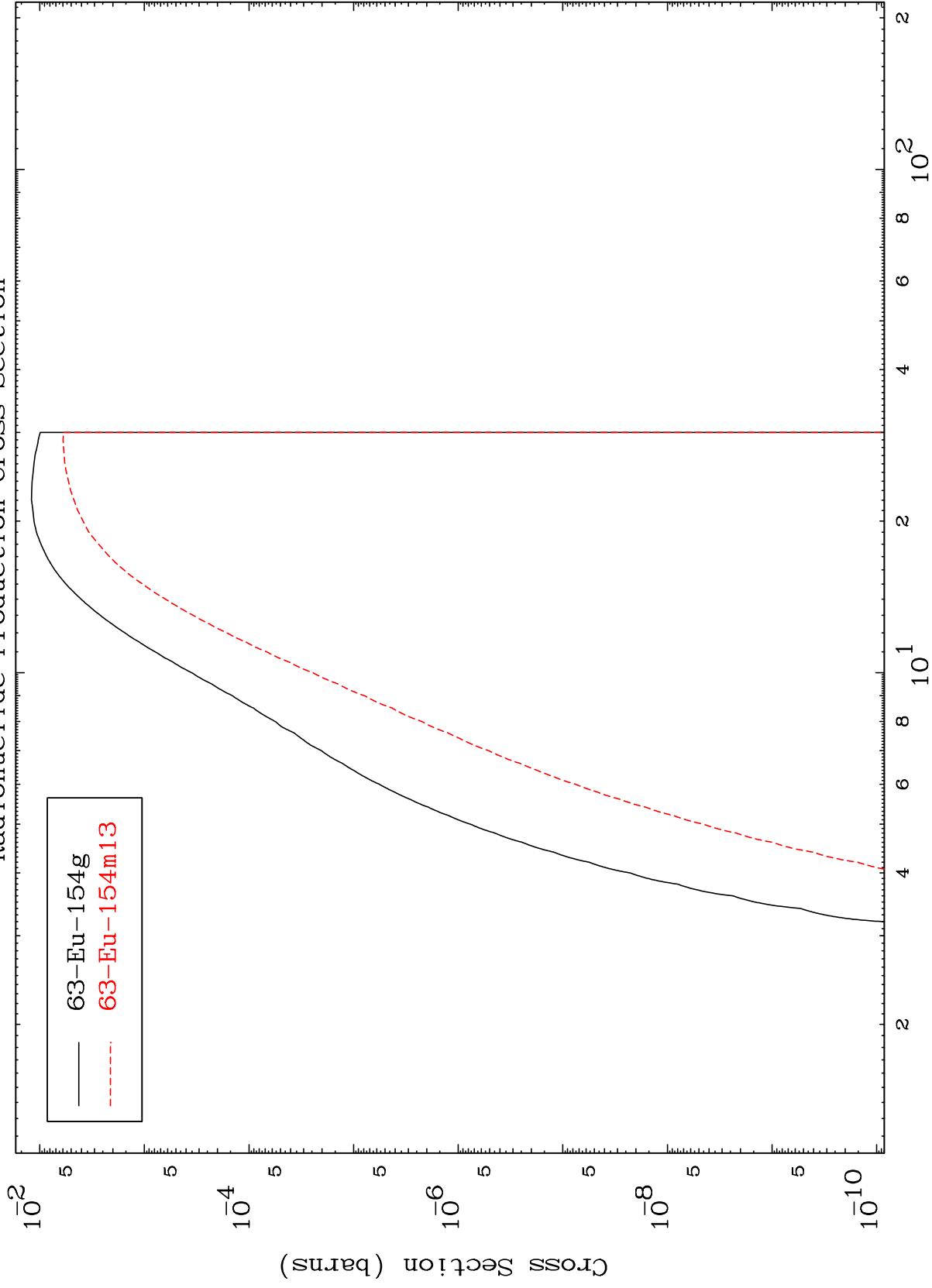
130

64-Gd-154

MAT 6431

64-Gd-154

(n,p)  
Radionuclide Production Cross Section



63-Eu-154g  
63-Eu-154m13

131

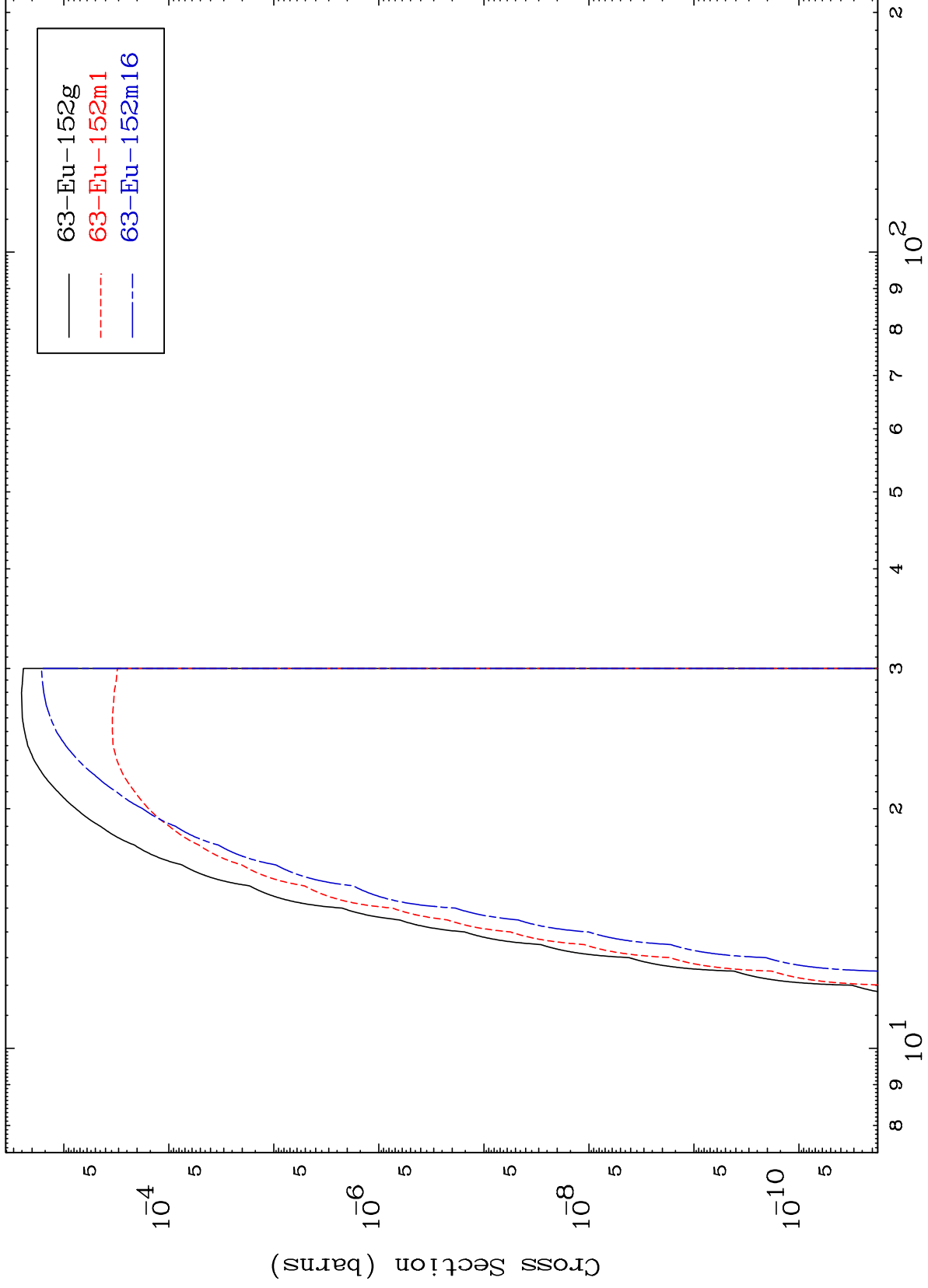
Incident Energy (MeV)

64-Gd-154

MAT 6431

64-Gd-154

(n, t)  
Radionuclide Production Cross Section



132

Incident Energy (MeV)

64-Gd-154