

Program EVALPLOT
(Version 2017-1)

by

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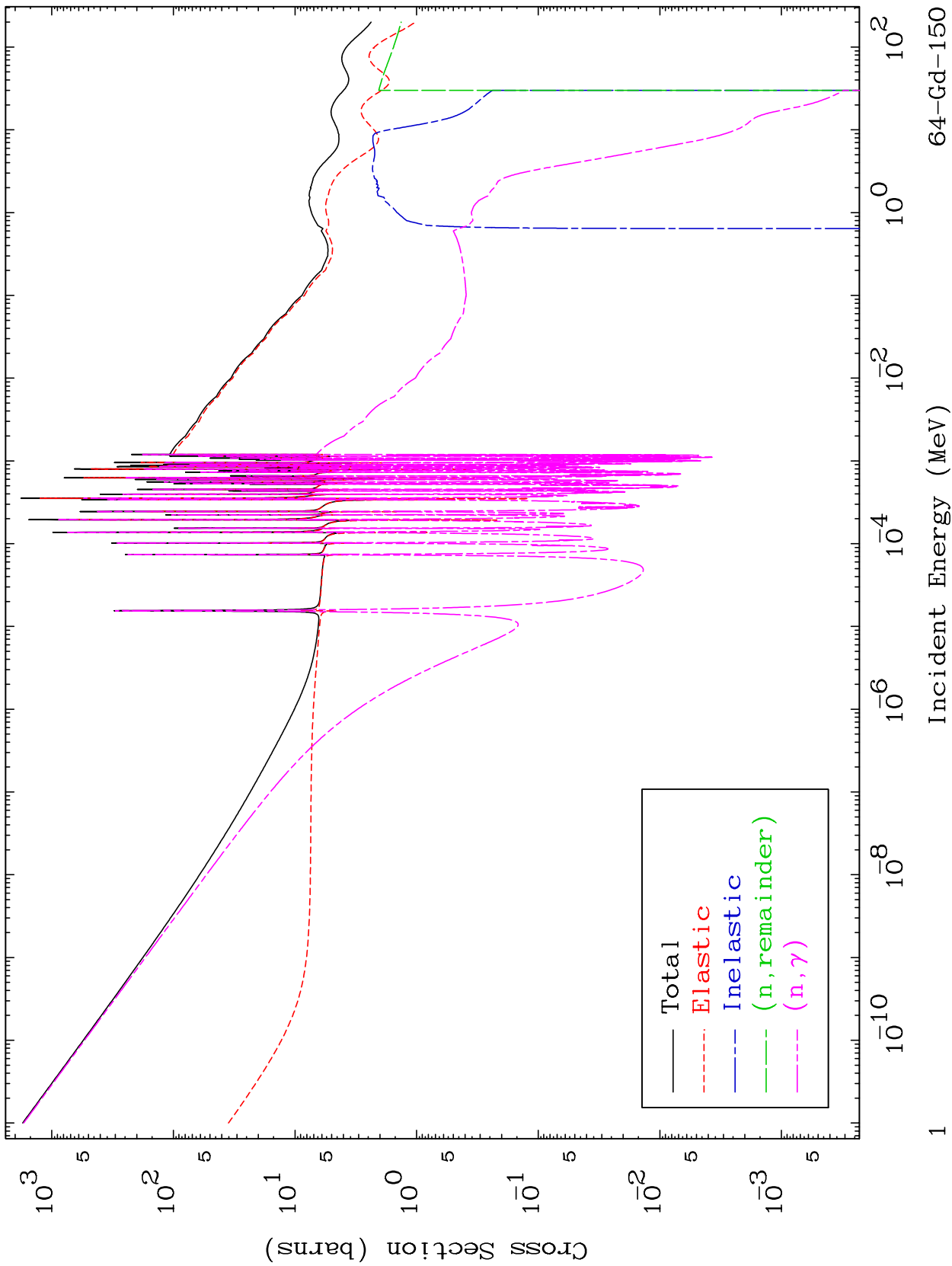
Press Mouse Button to Start

MAT 6419

Major

293 Kelvin Cross Sections

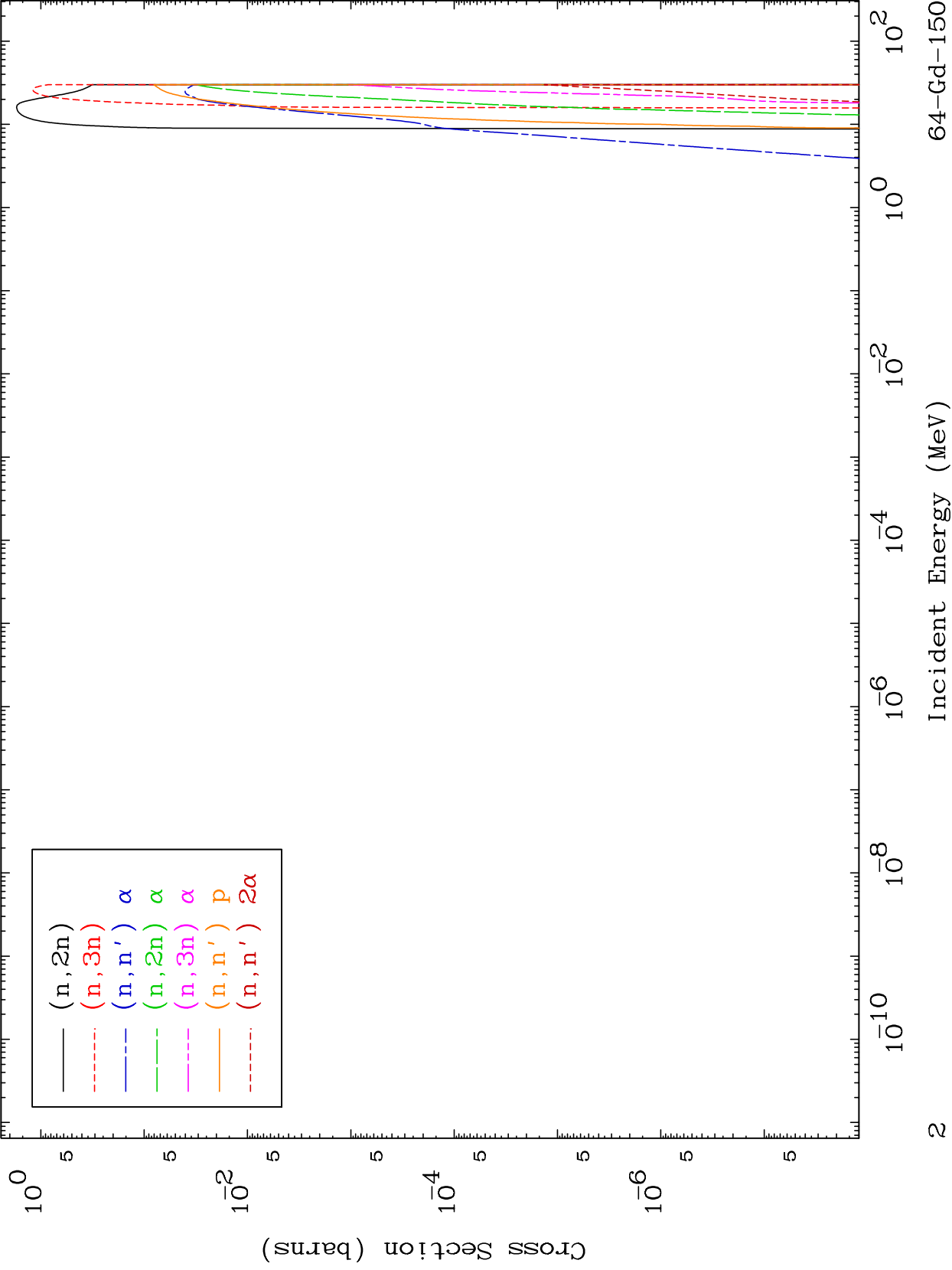
64-Gd-150



MAT 6419

Neutron Production
293 Kelvin Cross Sections

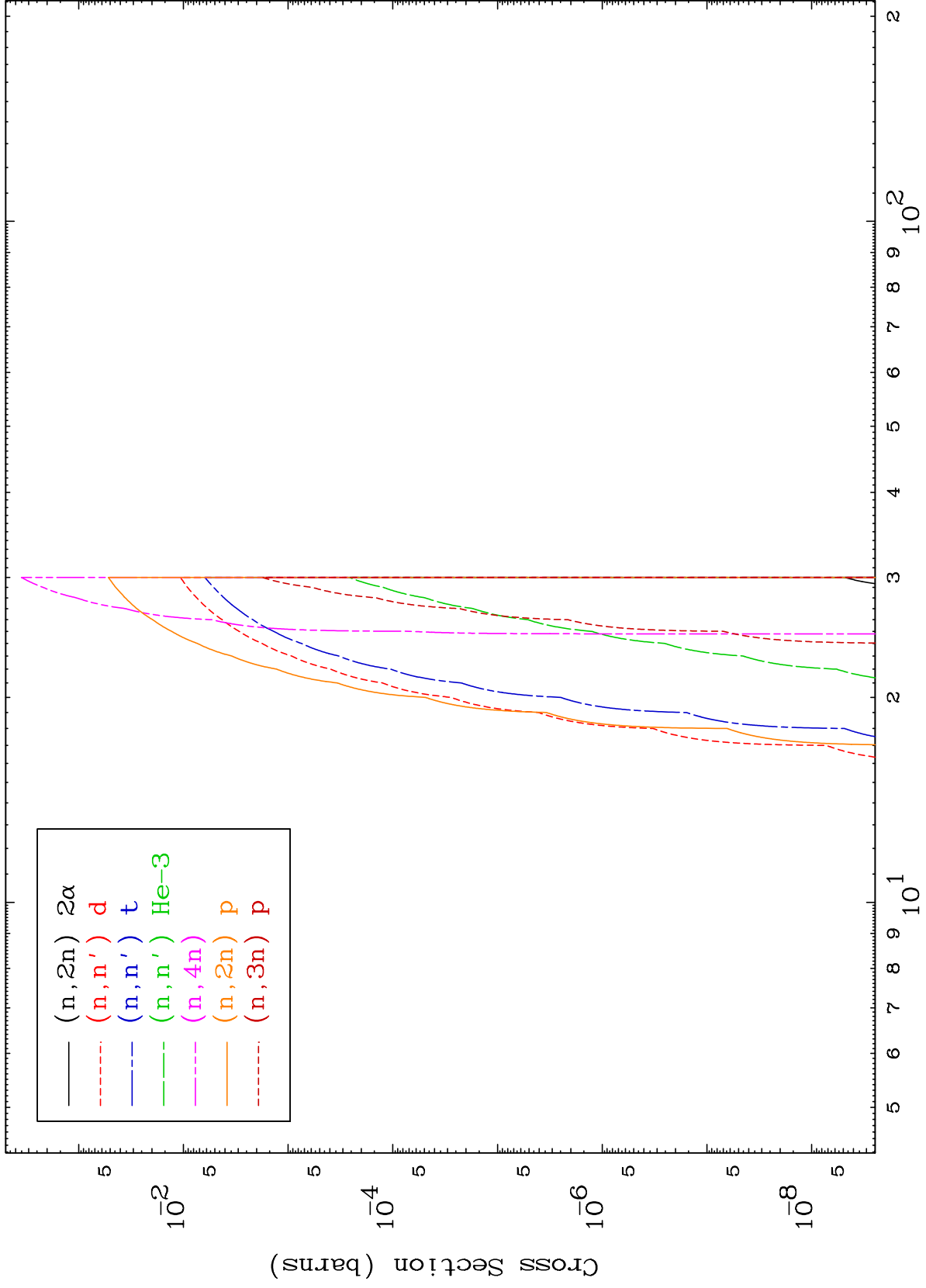
64-Gd-150



MAT 6419

Neutron Production
293 Kelvin Cross Sections

64-Gd-150



3

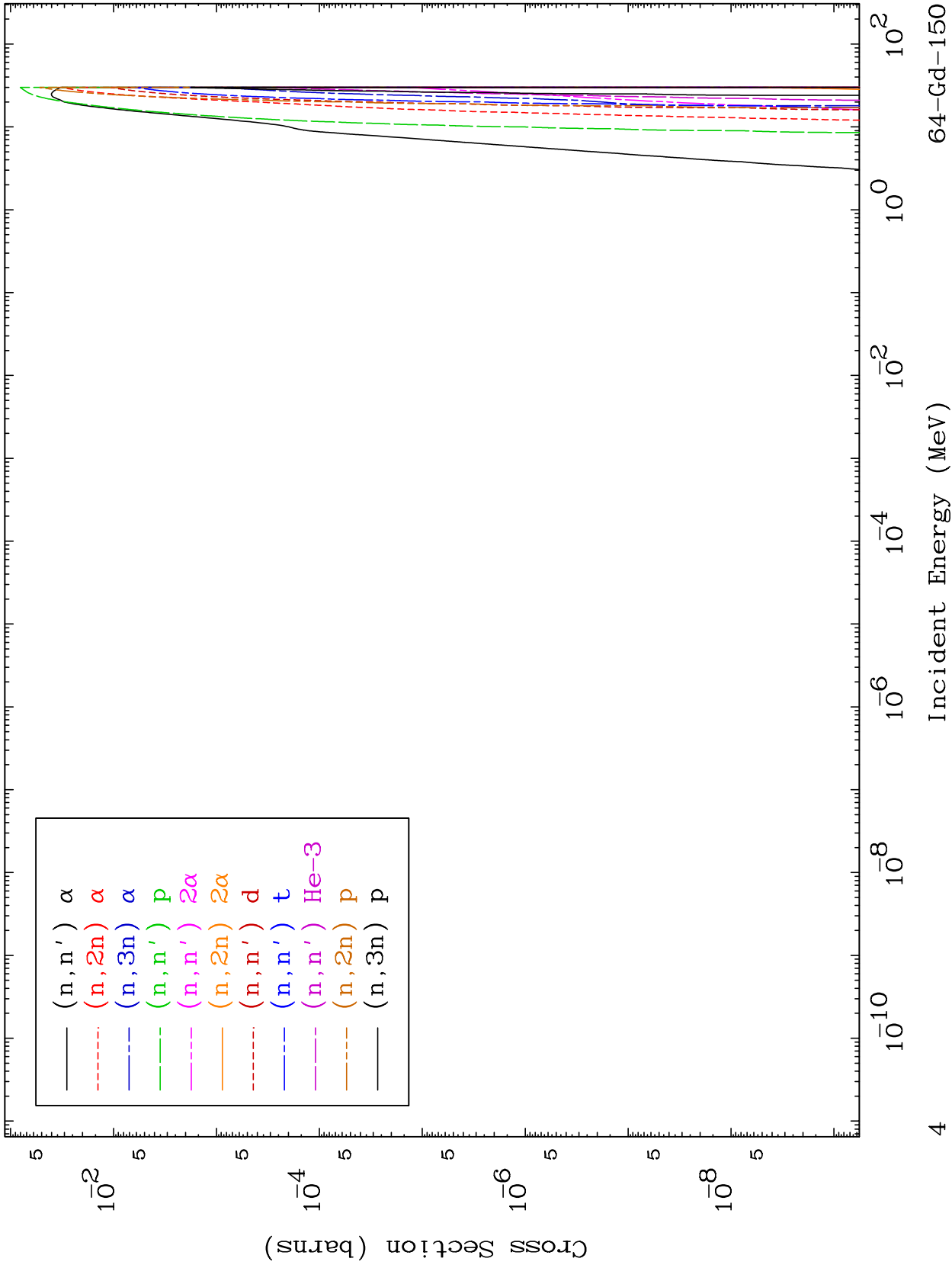
Incident Energy (MeV)

64-Gd-150

MAT 6419

Charged Particle
293 Kelvin Cross Sections

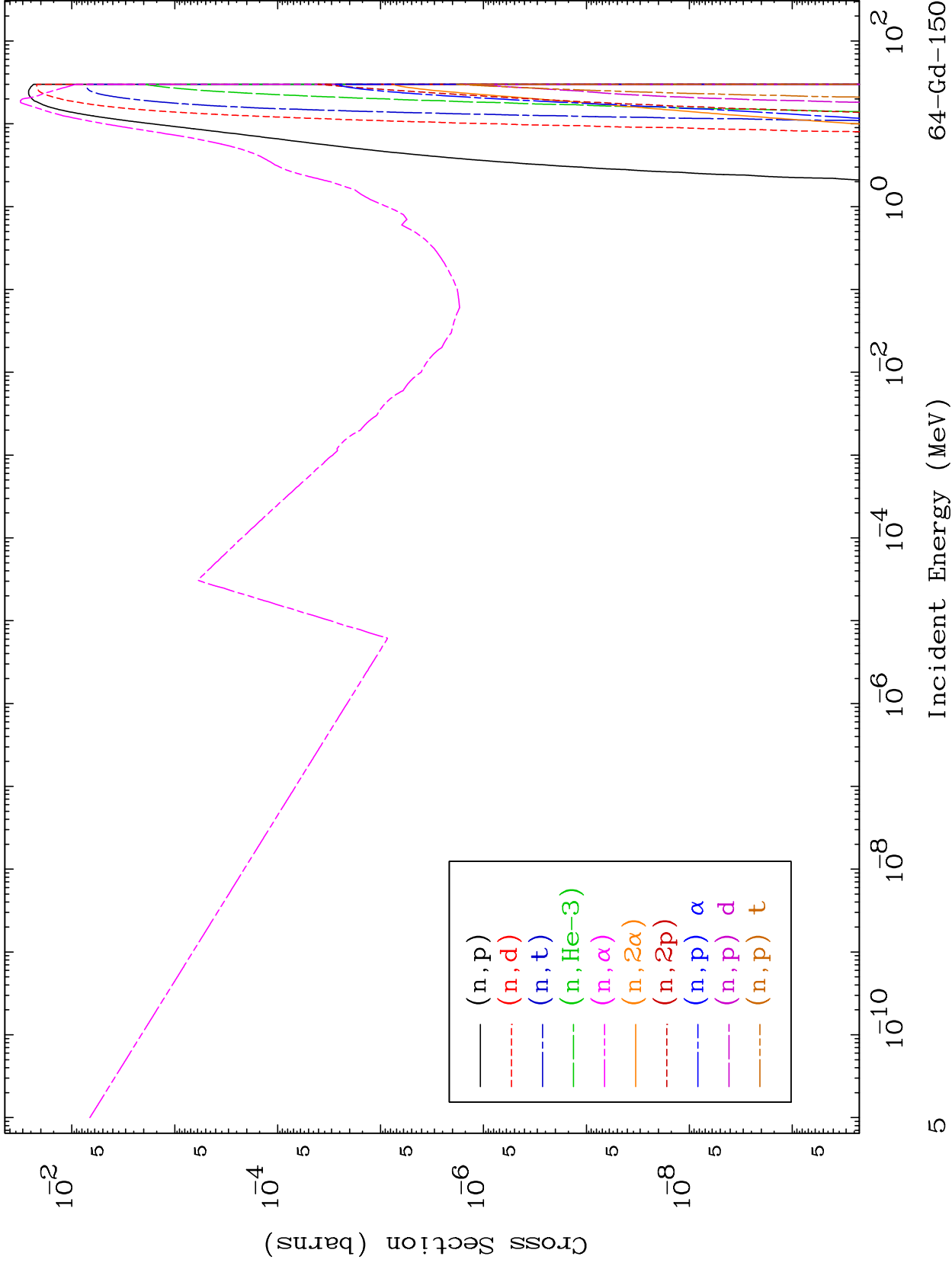
64-Gd-150

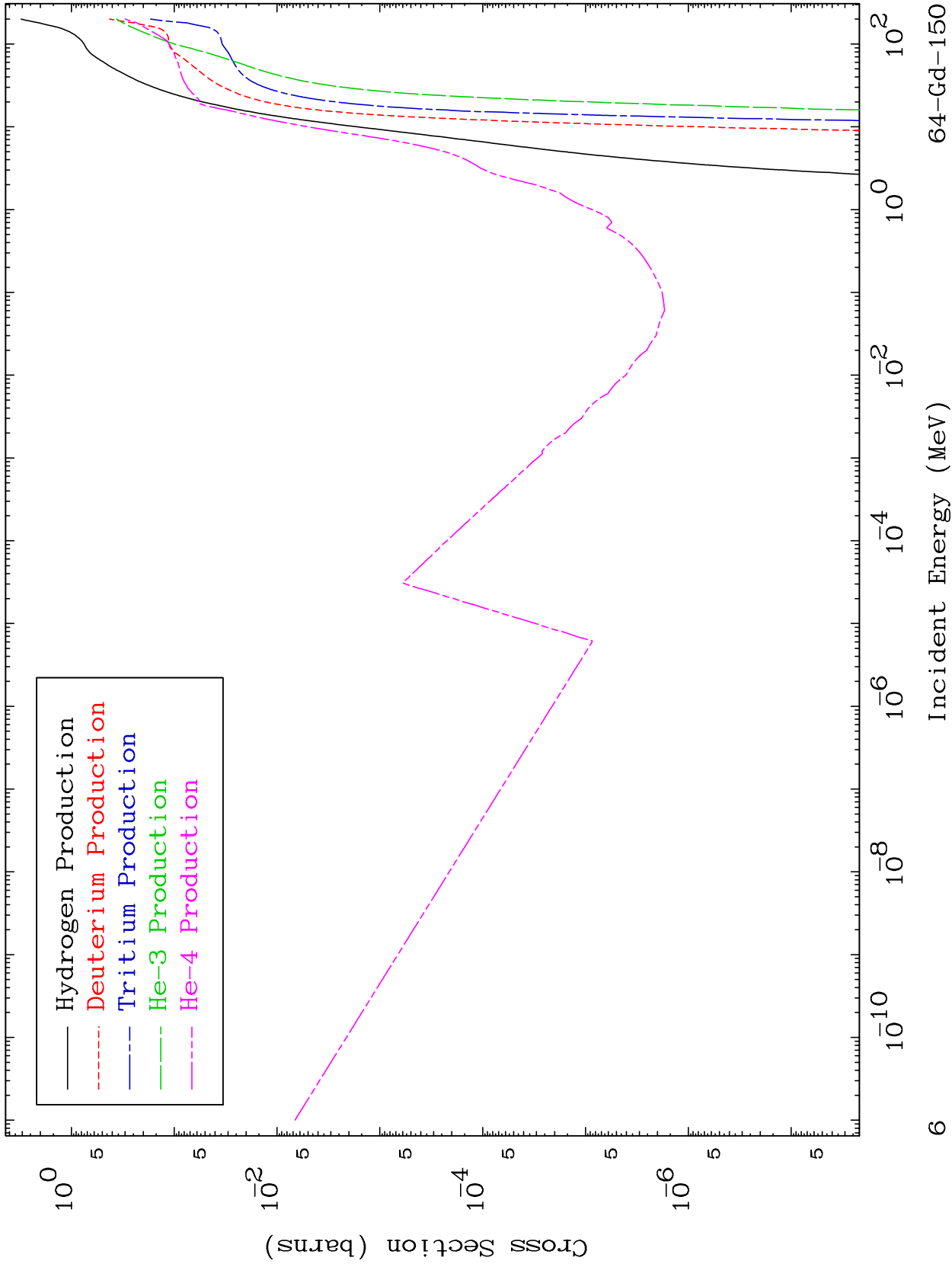


MAT 6419

Charged Particle
293 Kelvin Cross Sections

64-Gd-150



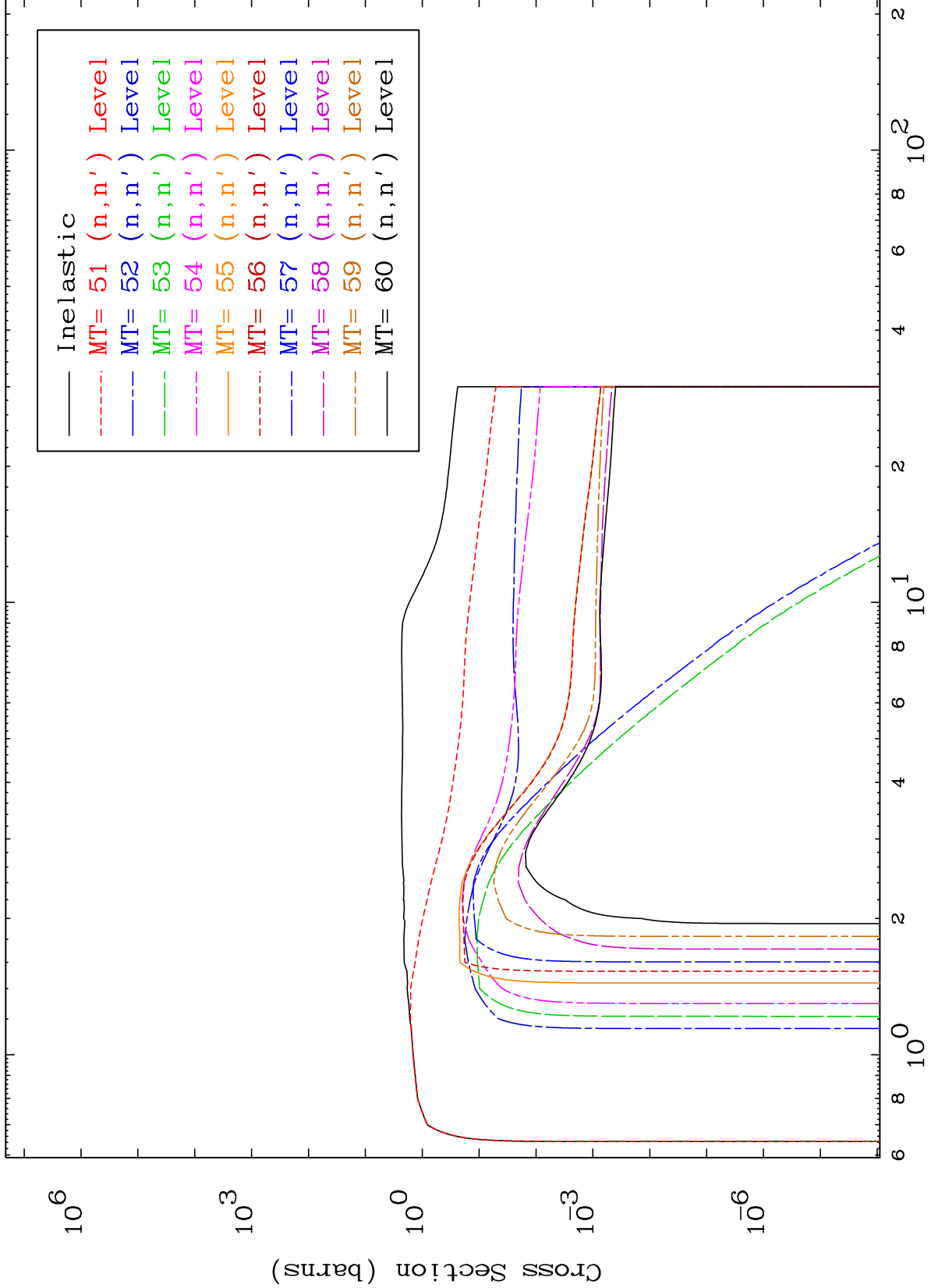


MAT 6419

(n,n') Level

64-Gd-150

293 Kelvin Cross Sections



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Incident Energy (MeV)

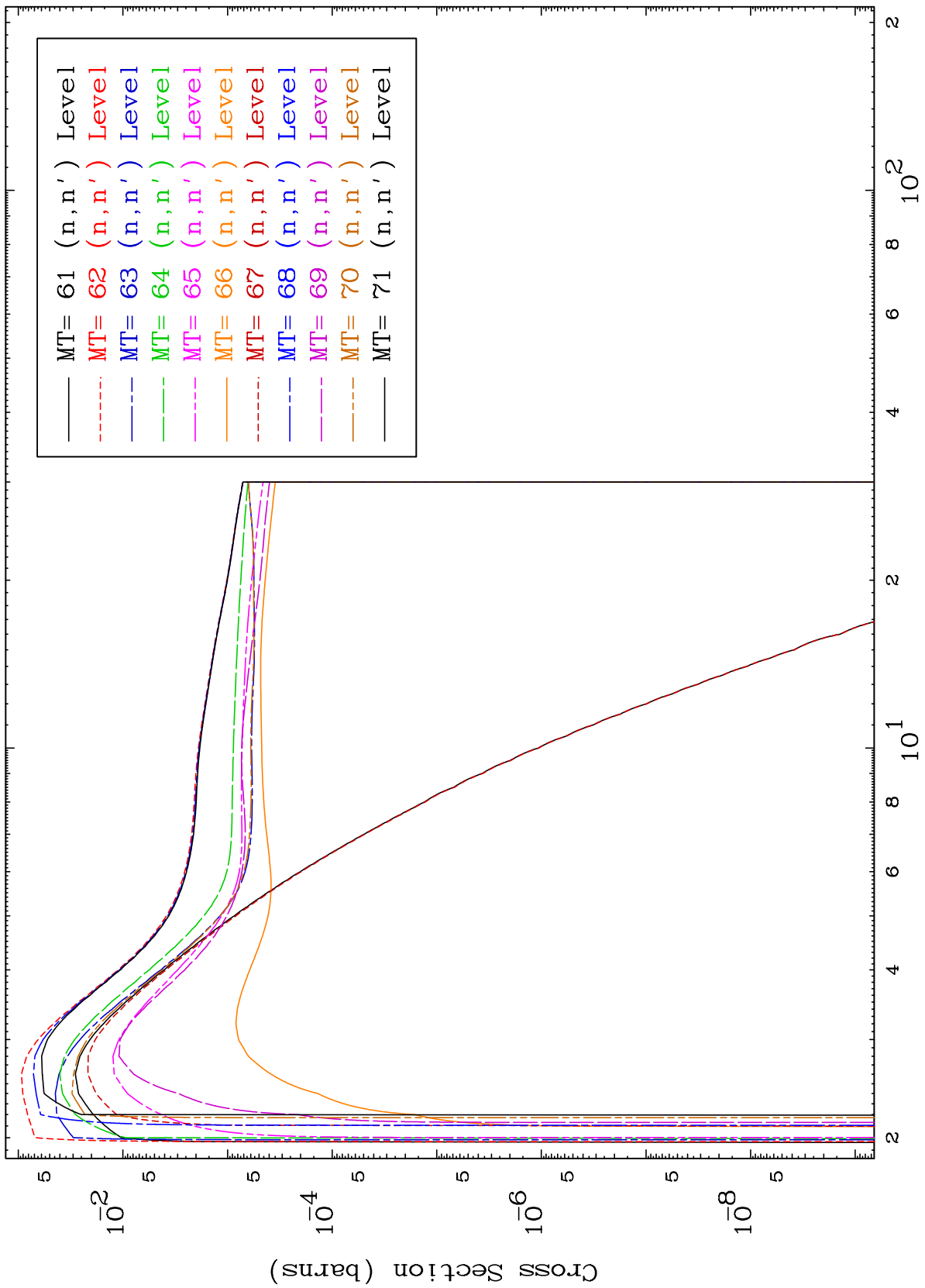
64-Gd-150

MAT 6419

(n,n') Level

64-Gd-150

293 Kelvin Cross Sections



8

Incident Energy (MeV)

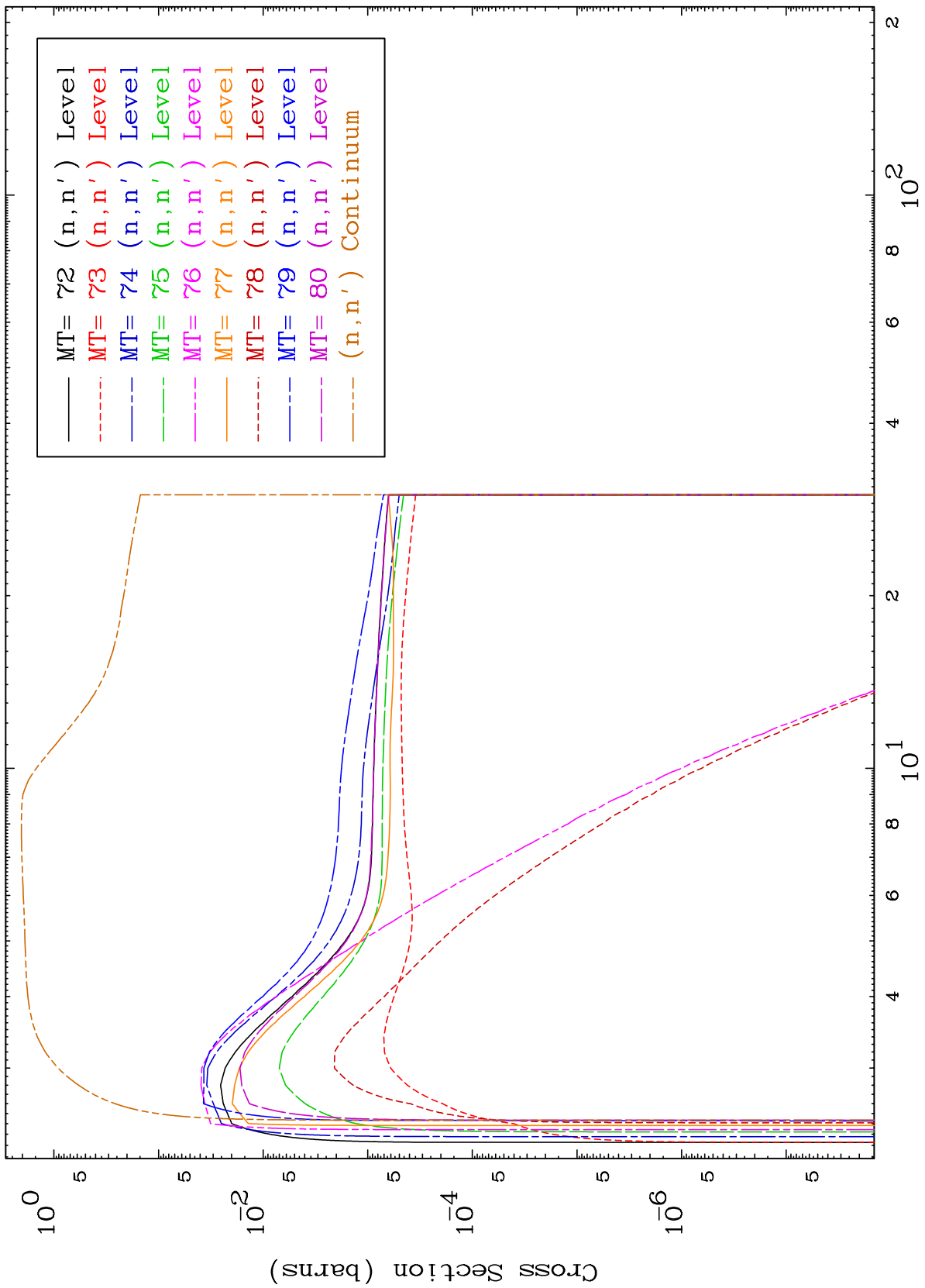
64-Gd-150

MAT 6419

(n,n') Level

64-Gd-150

293 Kelvin Cross Sections



9

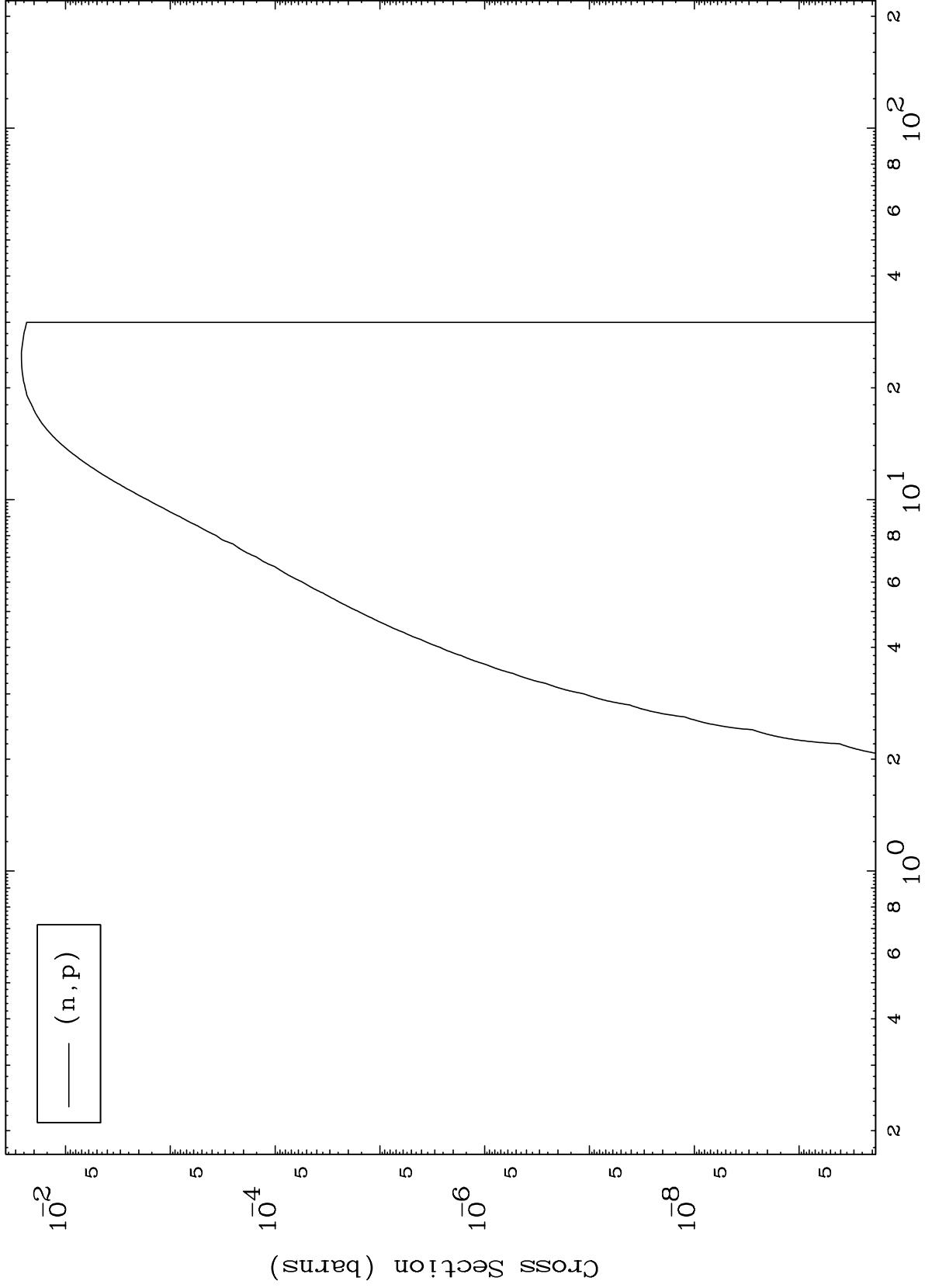
Incident Energy (MeV)

64-Gd-150

MAT 6419

(n,p) Levels
293 Kelvin Cross Sections

64-Gd-150



10

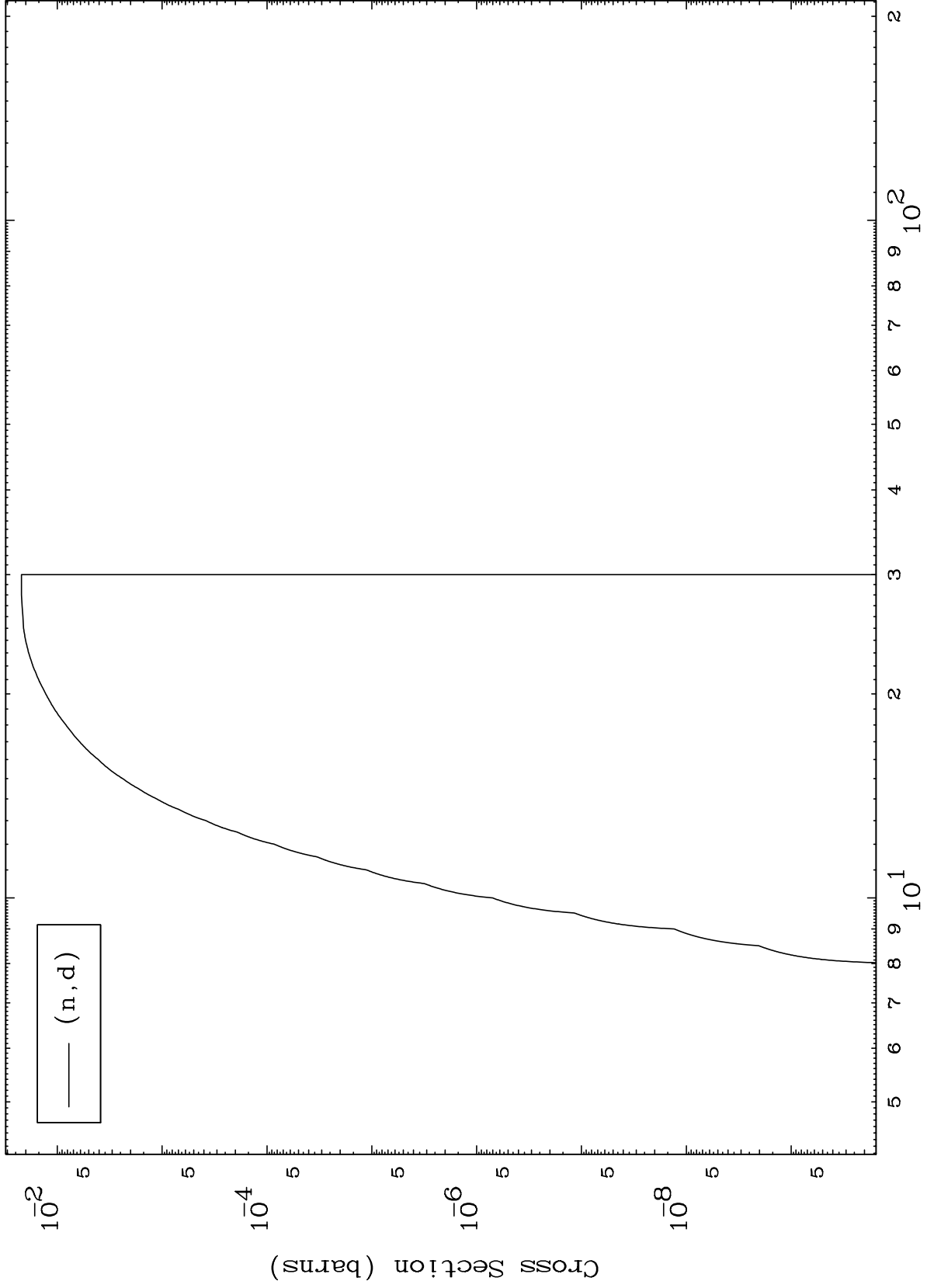
Incident Energy (MeV)

64-Gd-150

MAT 6419

(n,d) Levels
293 Kelvin Cross Sections

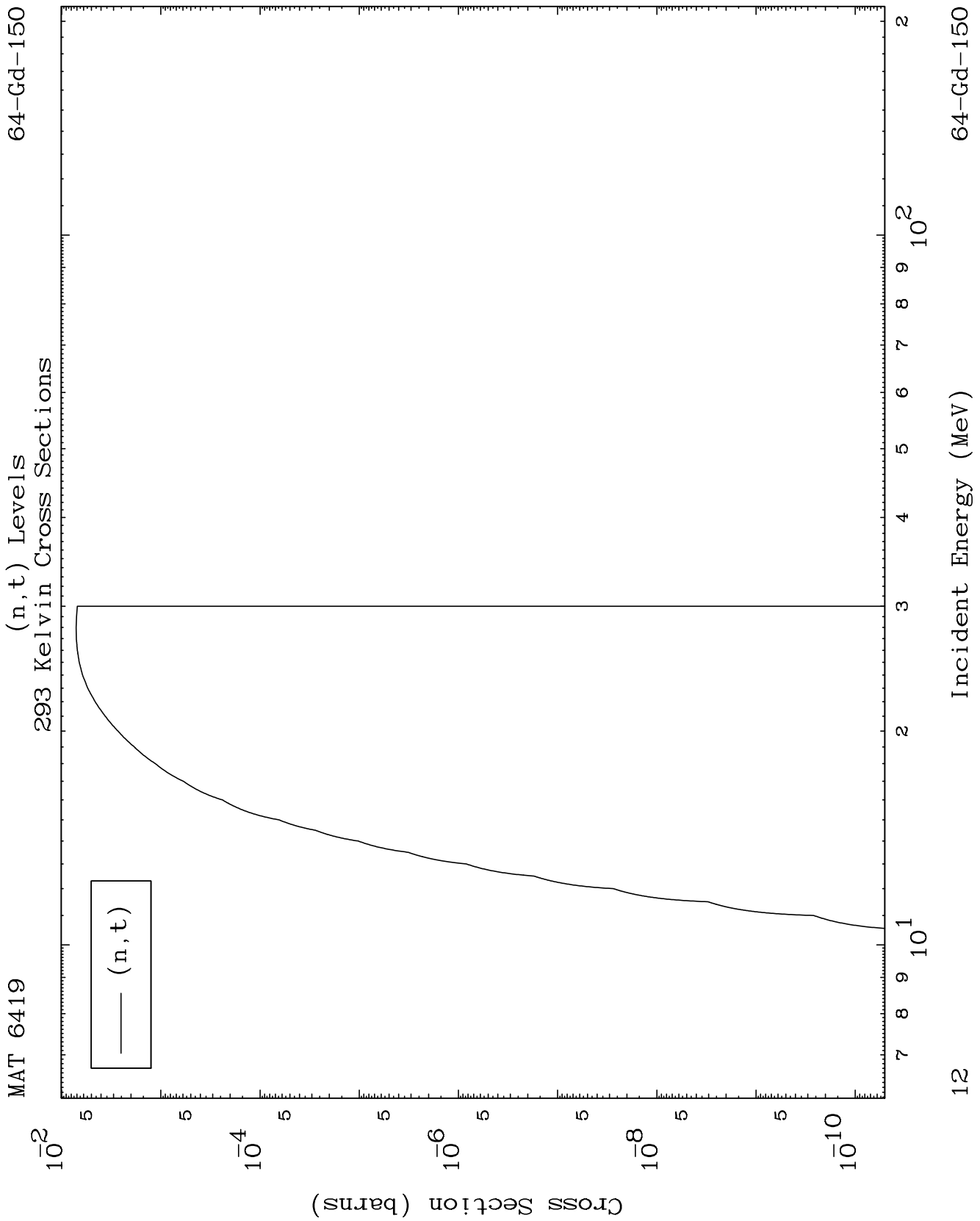
64-Gd-150



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Incident Energy (MeV)

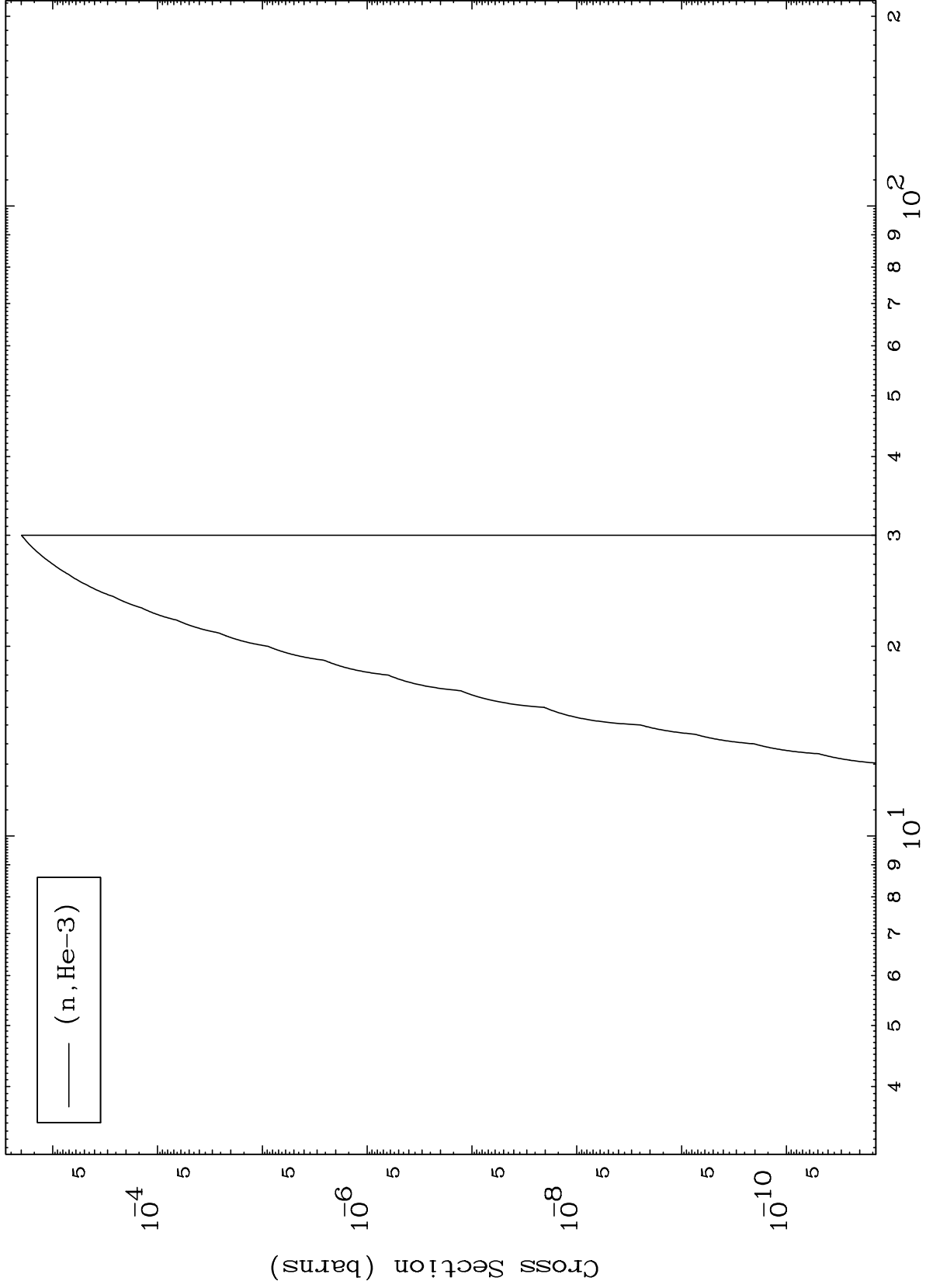
64-Gd-150



MAT 6419

(n,He3) Levels
293 Kelvin Cross Sections

64-Gd-150



13

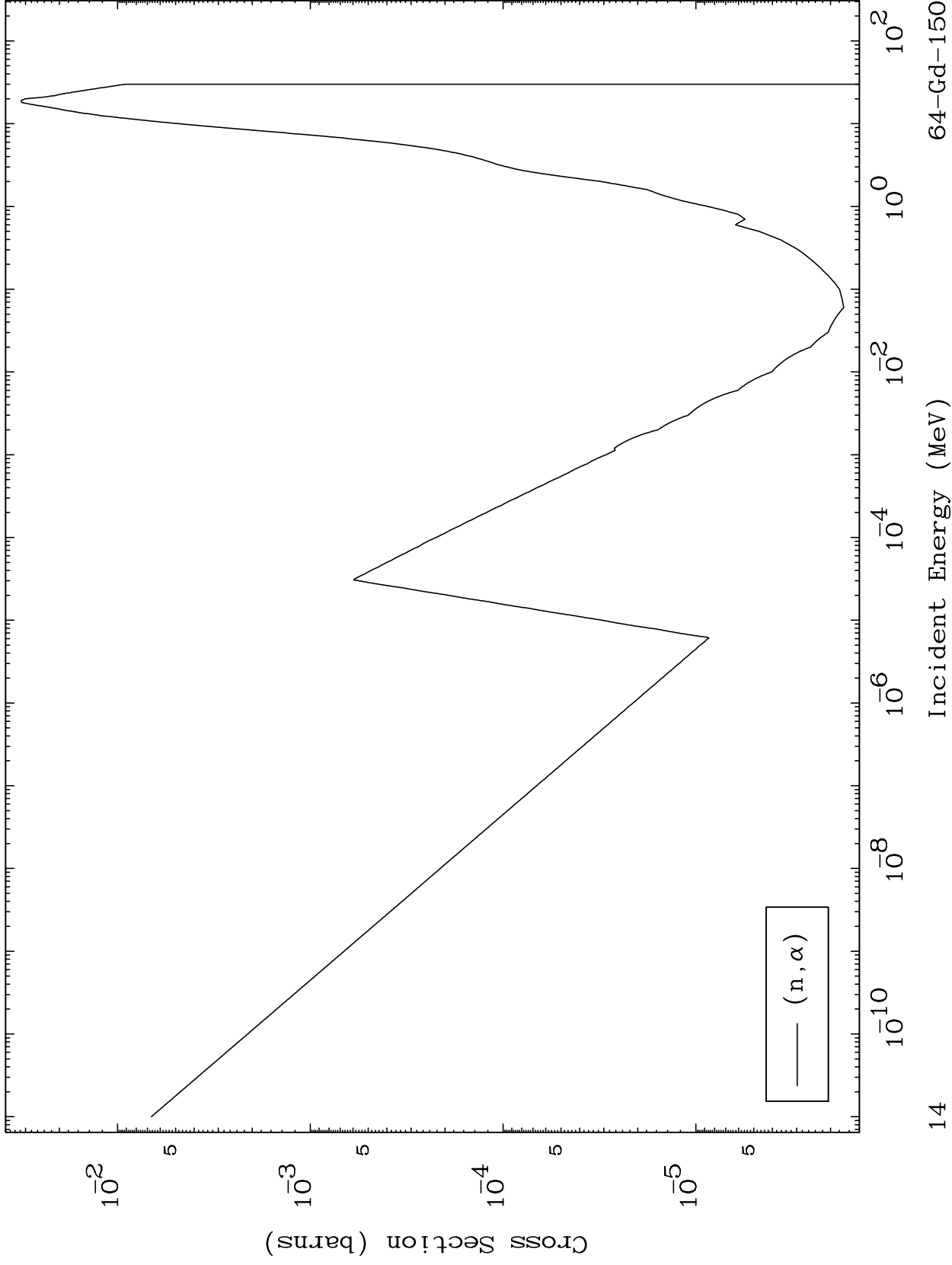
Incident Energy (MeV)

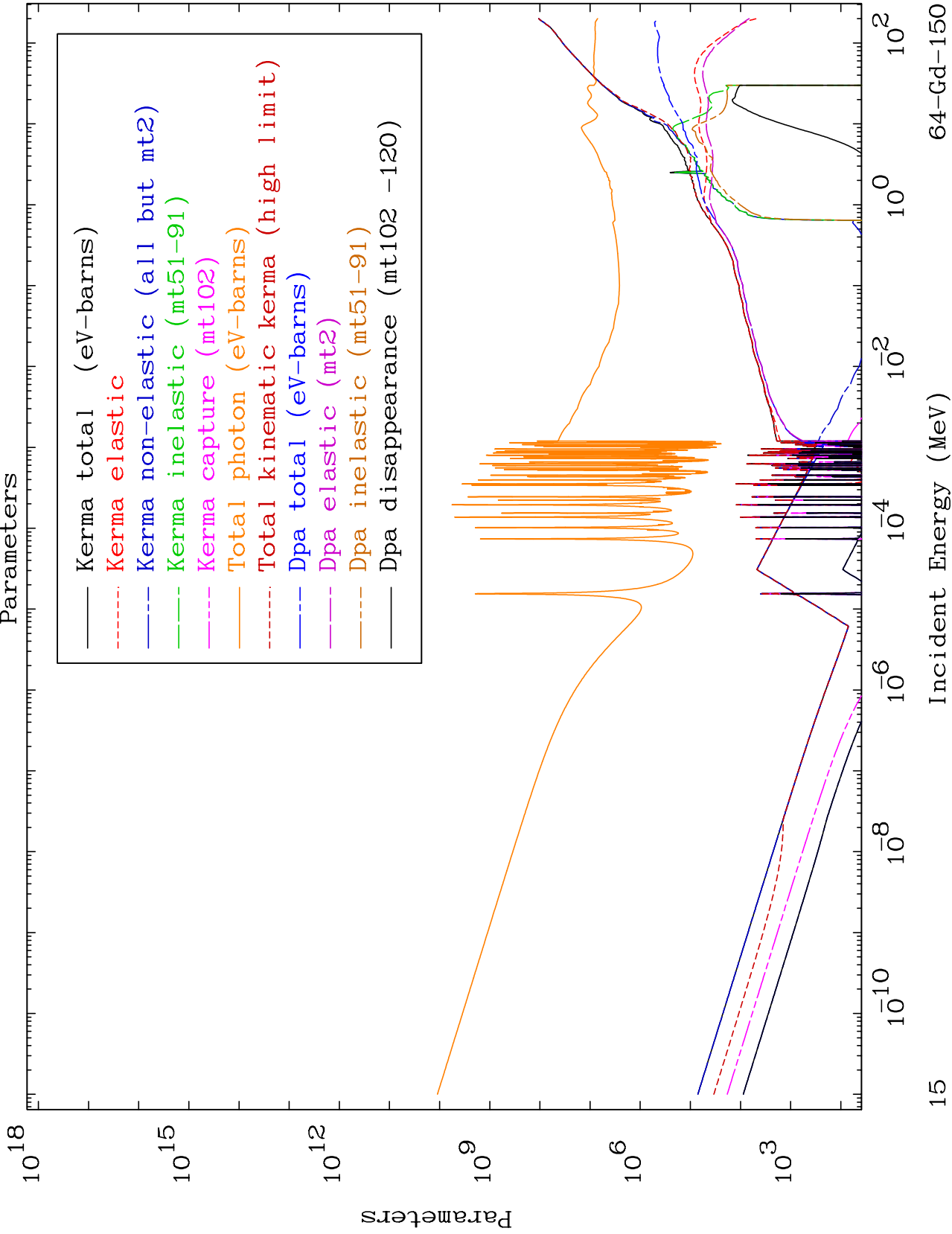
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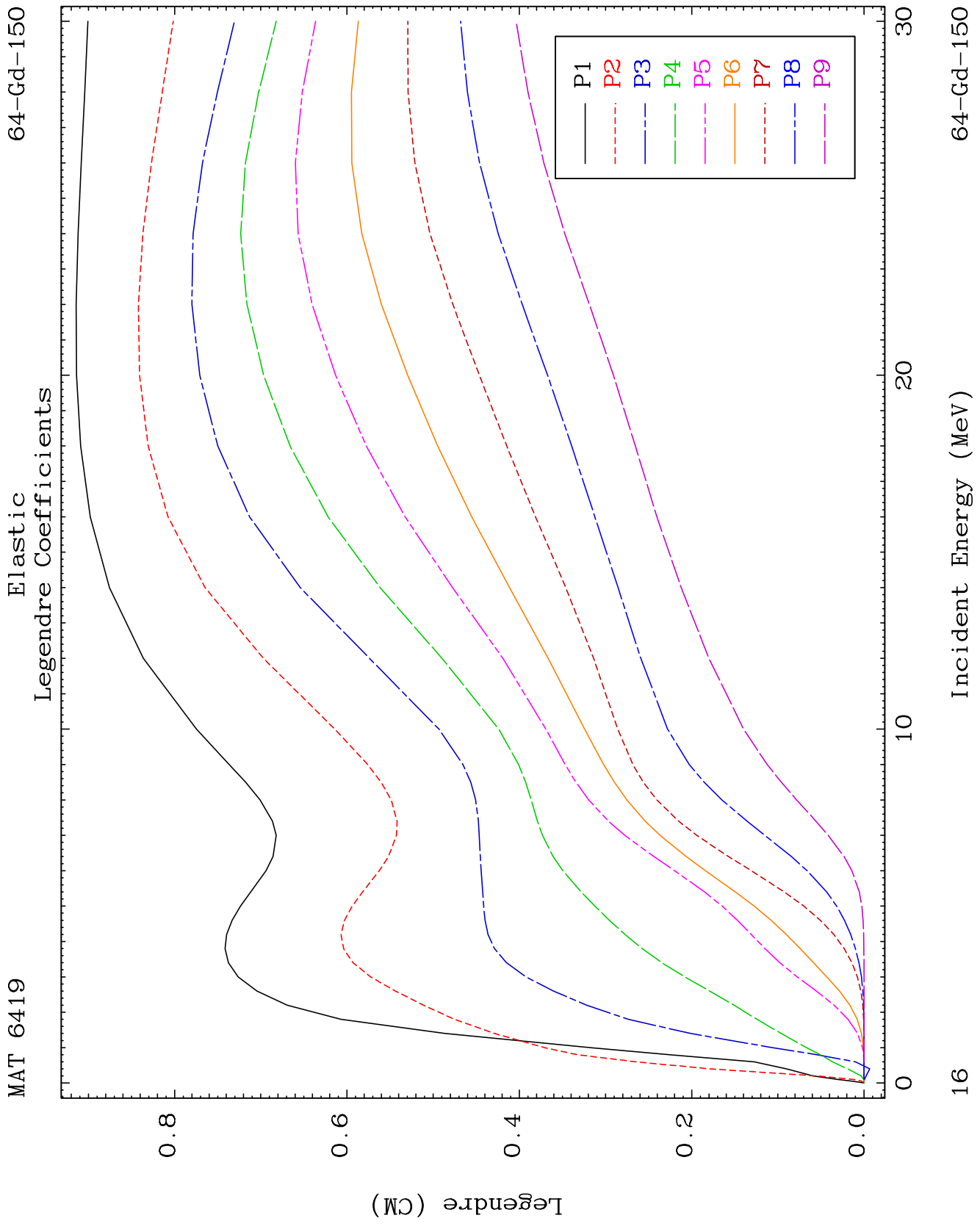
MAT 6419

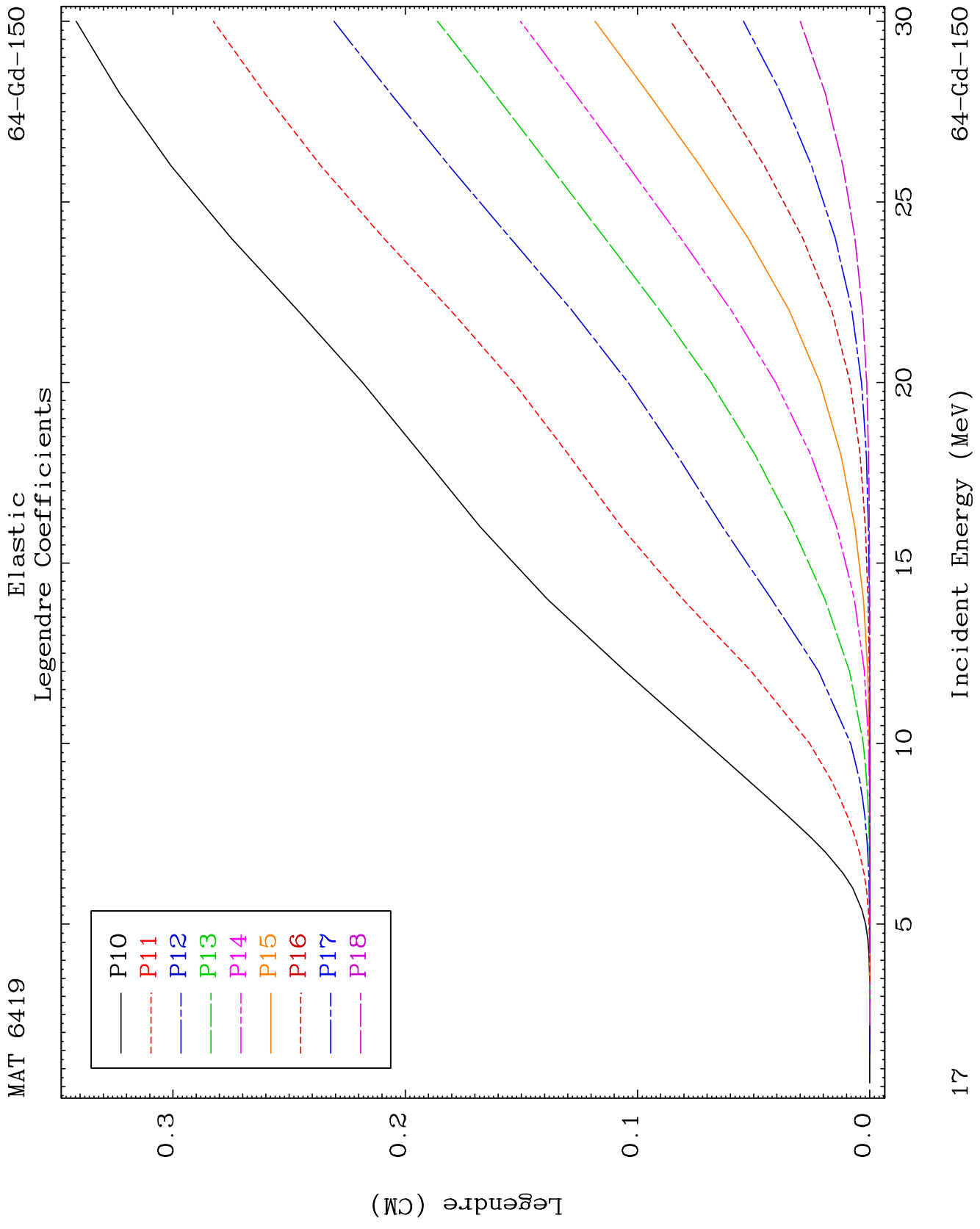
(n, α) Levels
293 Kelvin Cross Sections

64-Gd-150





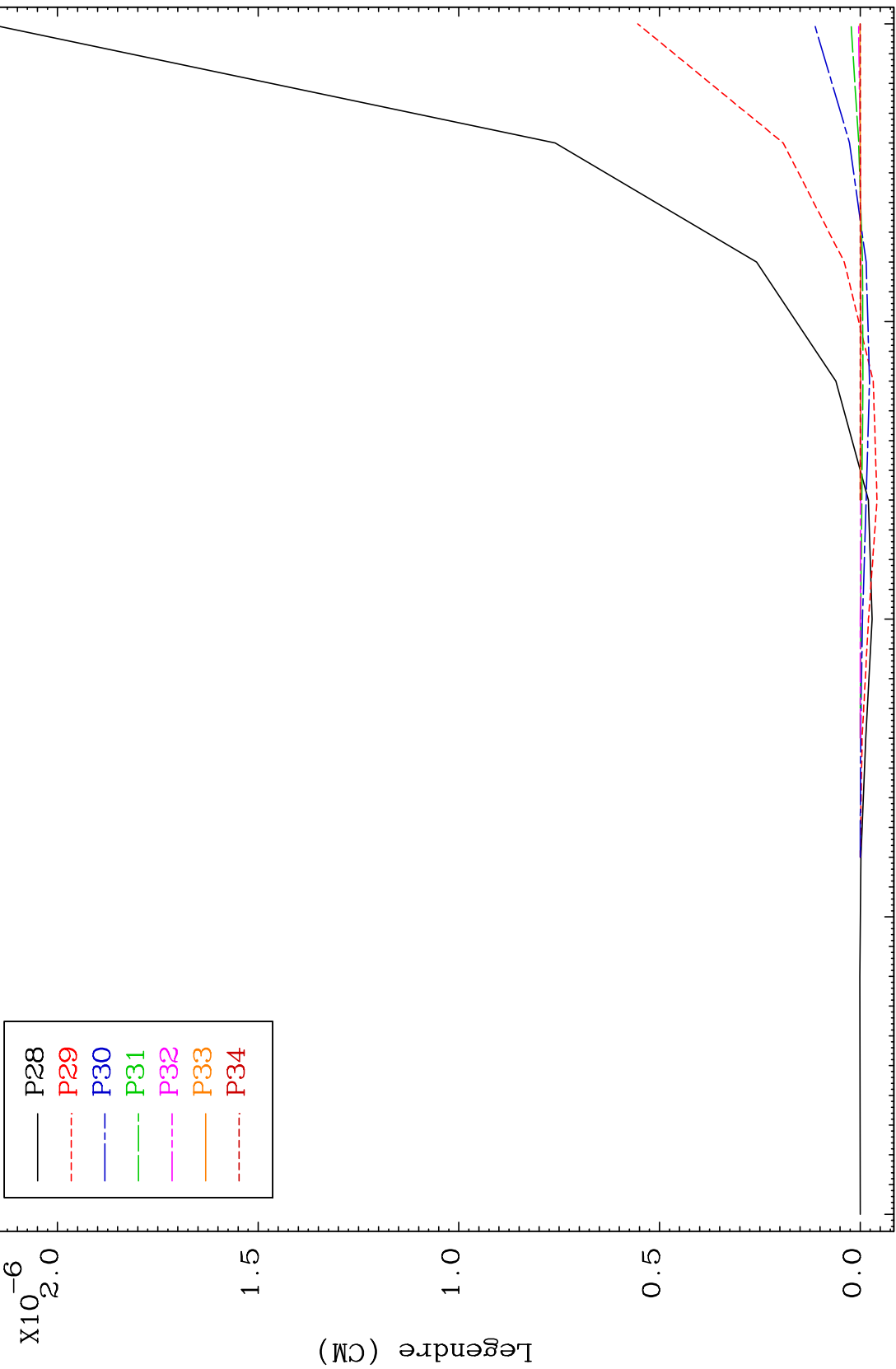
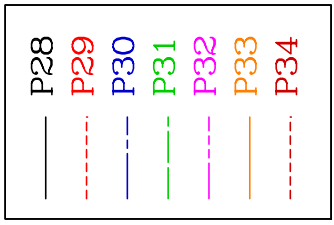




MAT 6419

Elastic Legendre Coefficients

64-Gd-150



19

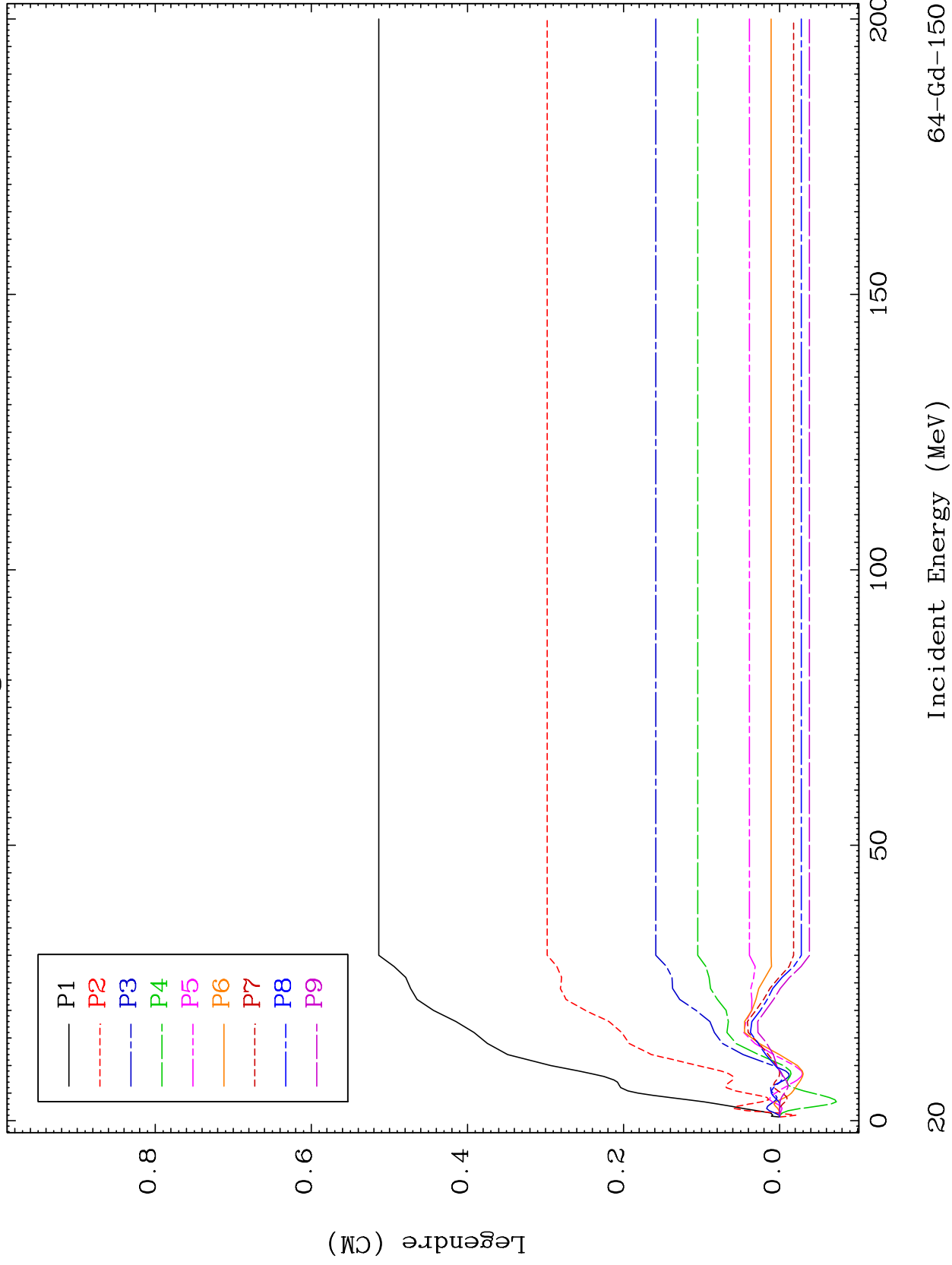
Incident Energy (MeV)

64-Gd-150

MAT 6419

MT= 51 (n,n') Level
Legendre Coefficients

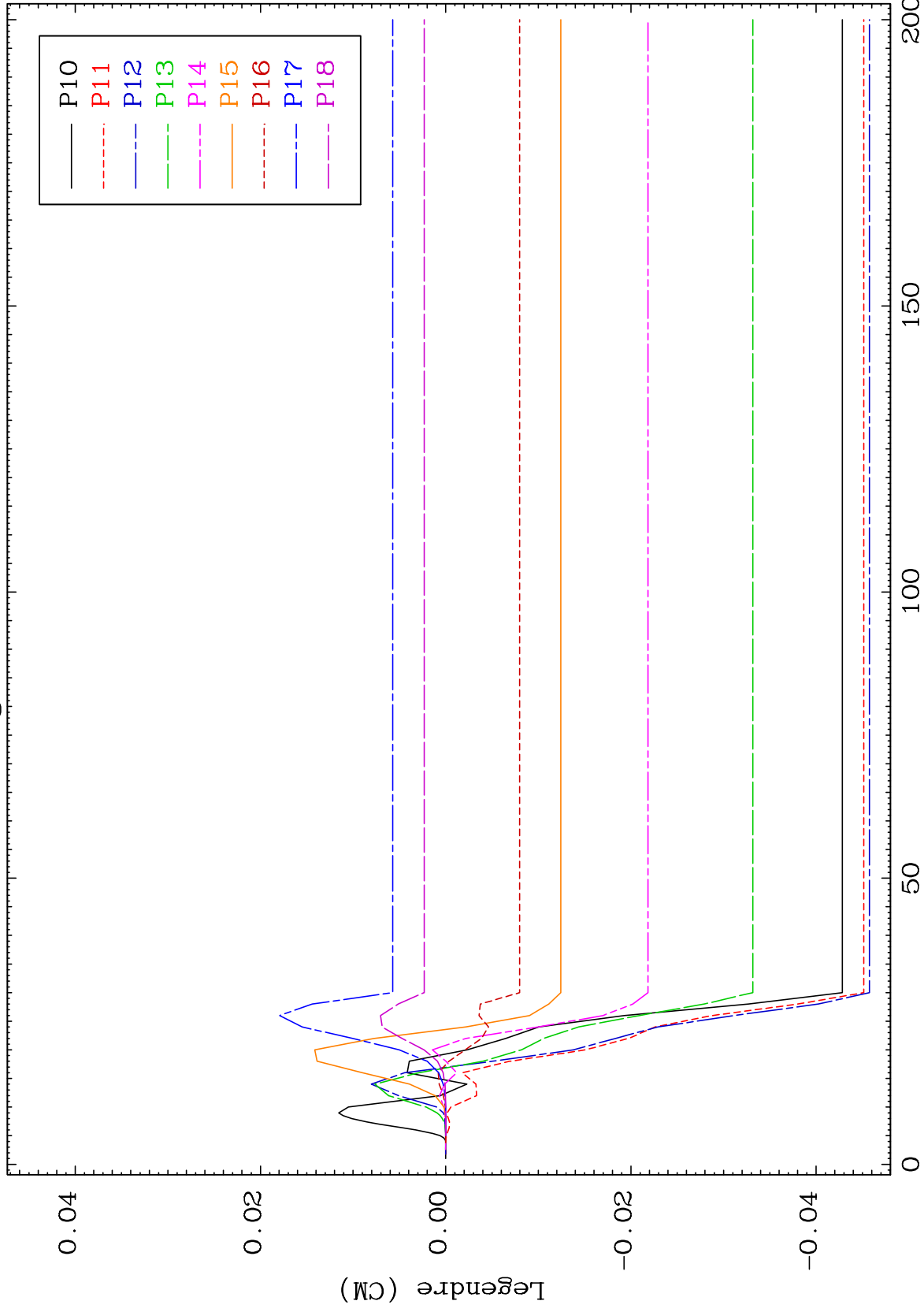
64-Gd-150



MAT 6419

MT= 51 (n,n') Level
Legendre Coefficients

64-Gd-150



21

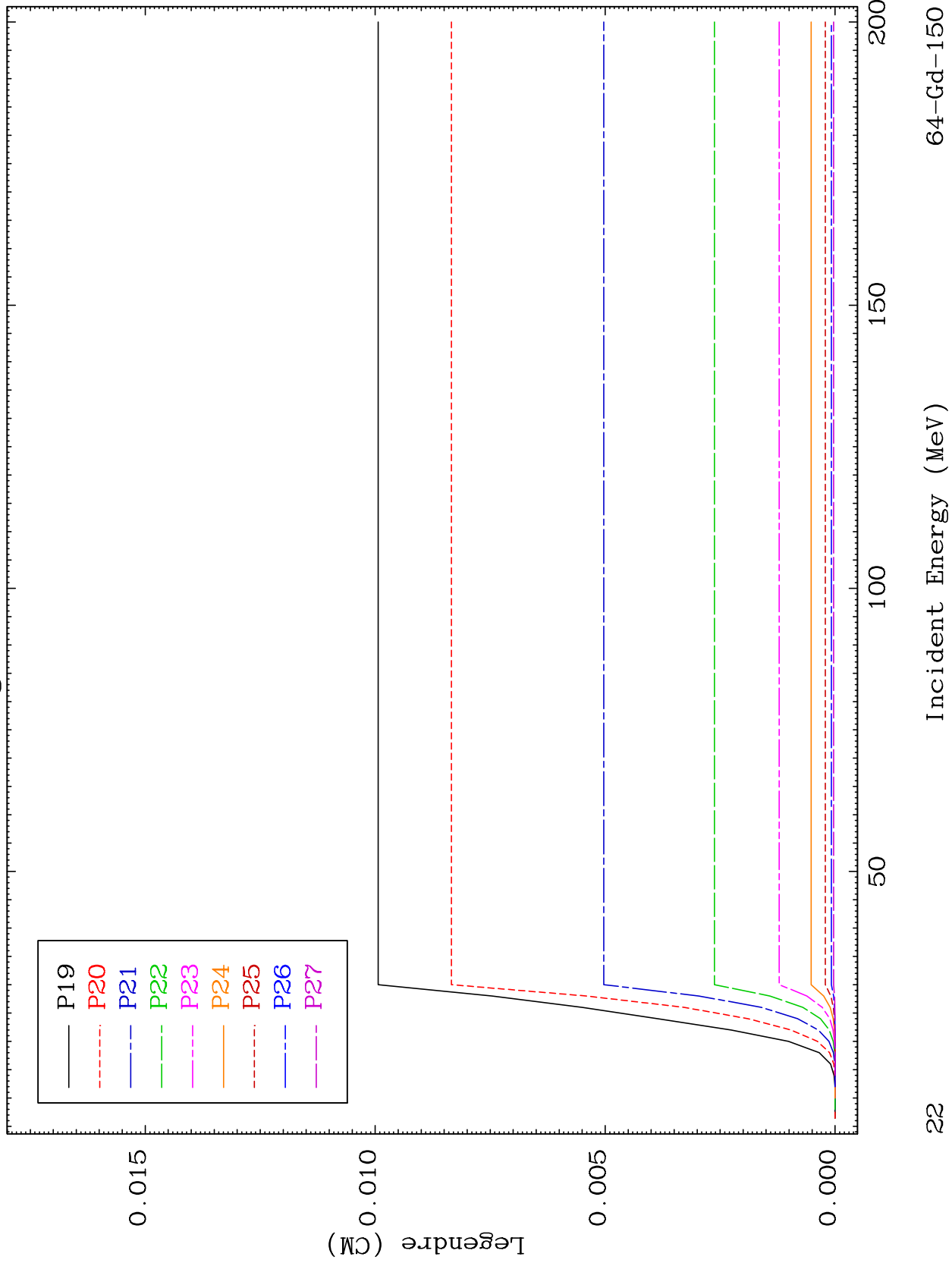
Incident Energy (MeV)

64-Gd-150

MAT 6419

MT= 51 (n,n') Level
Legendre Coefficients

64-Gd-150



22

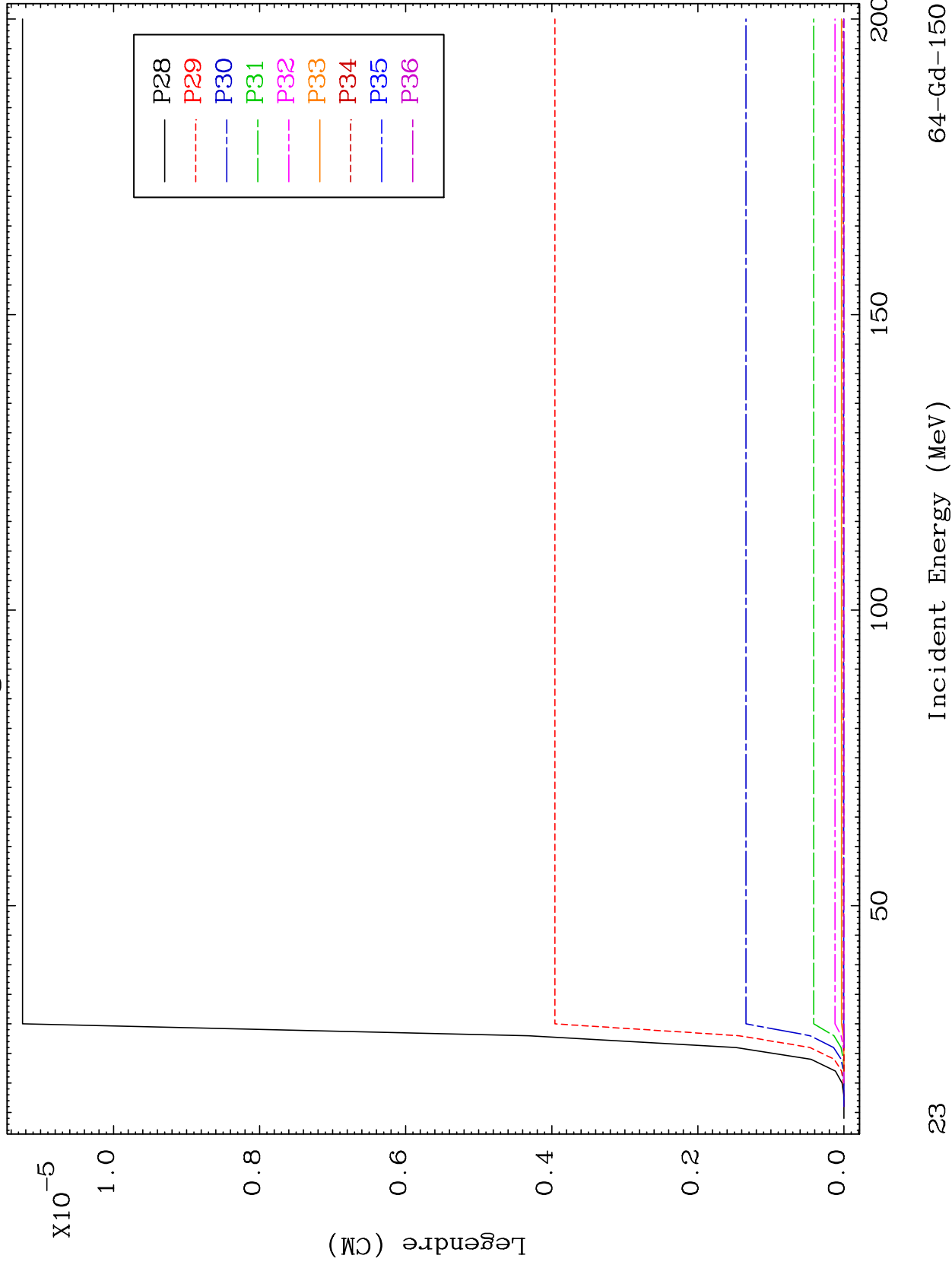
Incident Energy (MeV)

64-Gd-150

MAT 6419

MT= 51 (n,n') Level
Legendre Coefficients

64-Gd-150

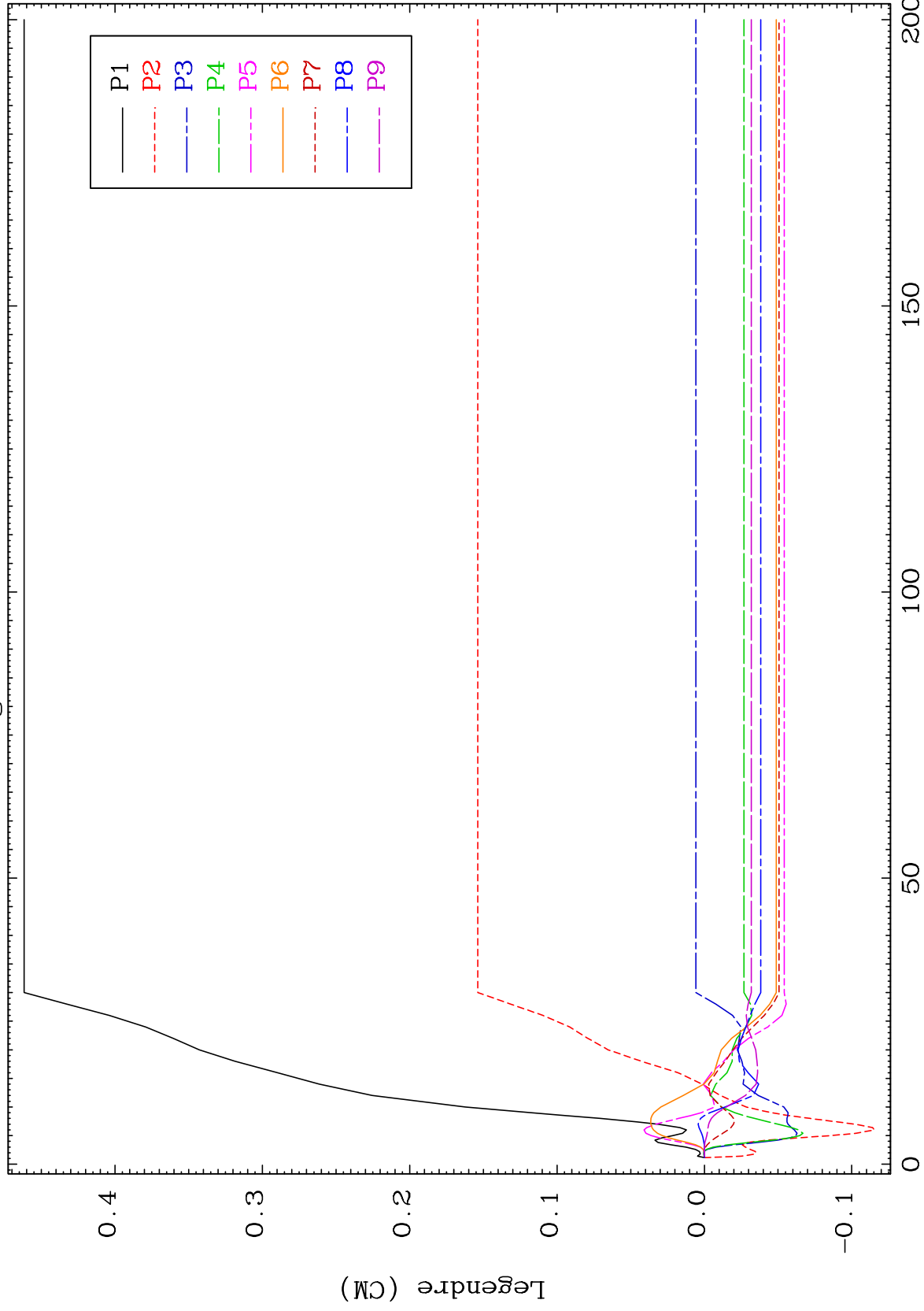


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MAT 6419

MT= 52 (n,n') Level
Legendre Coefficients

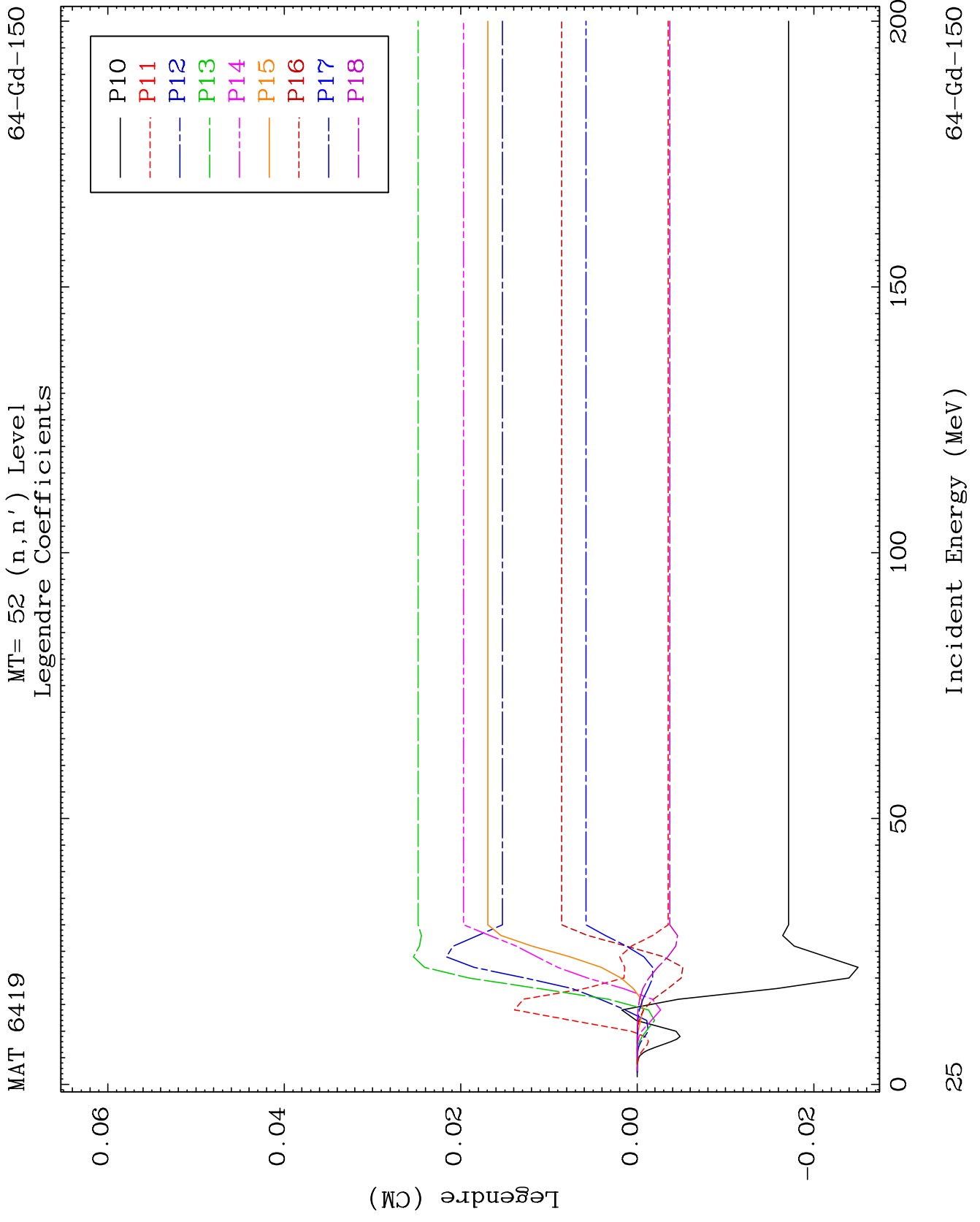
64-Gd-150



24

Incident Energy (MeV)

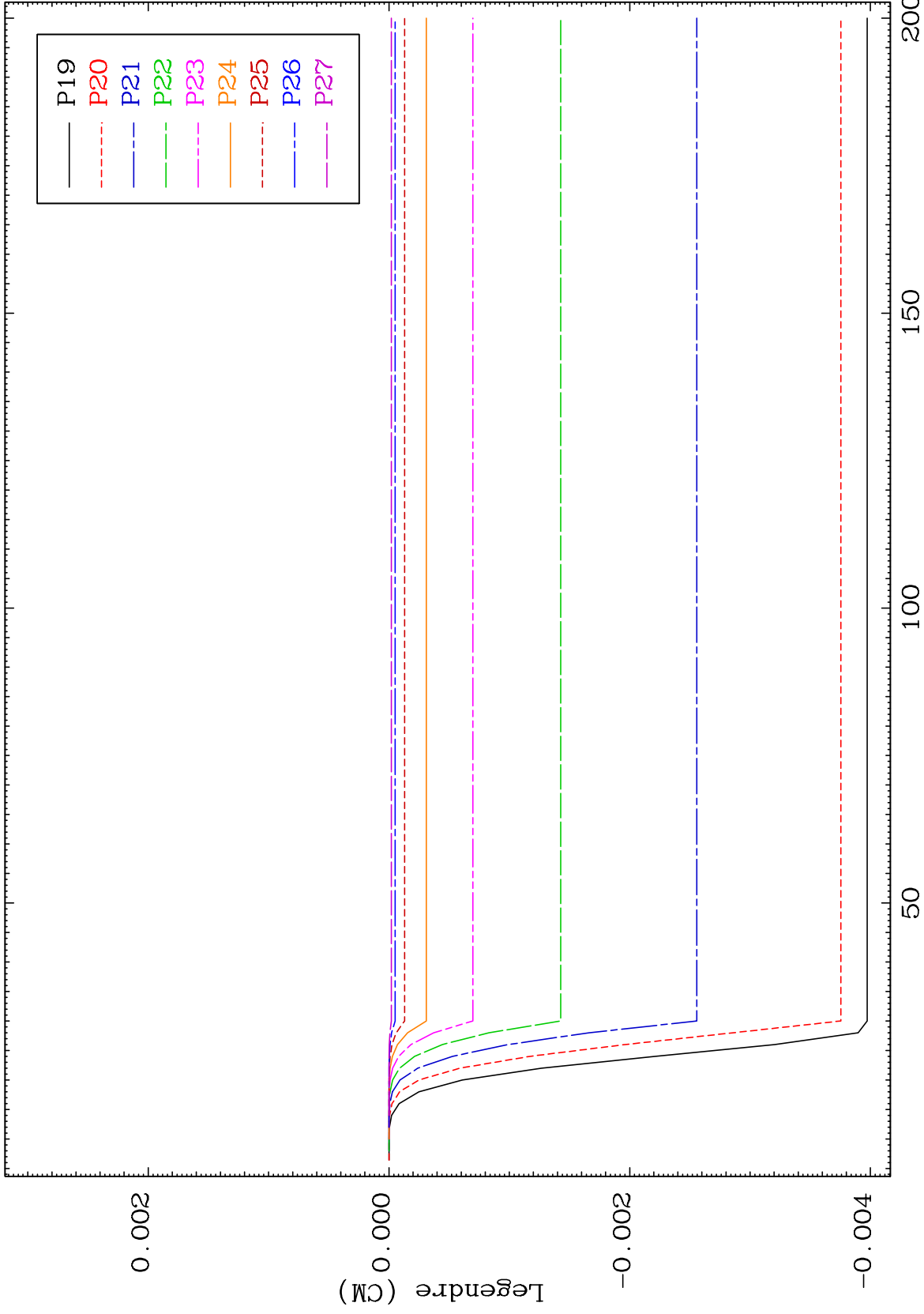
64-Gd-150



MAT 6419

MT= 52 (n,n') Level
Legendre Coefficients

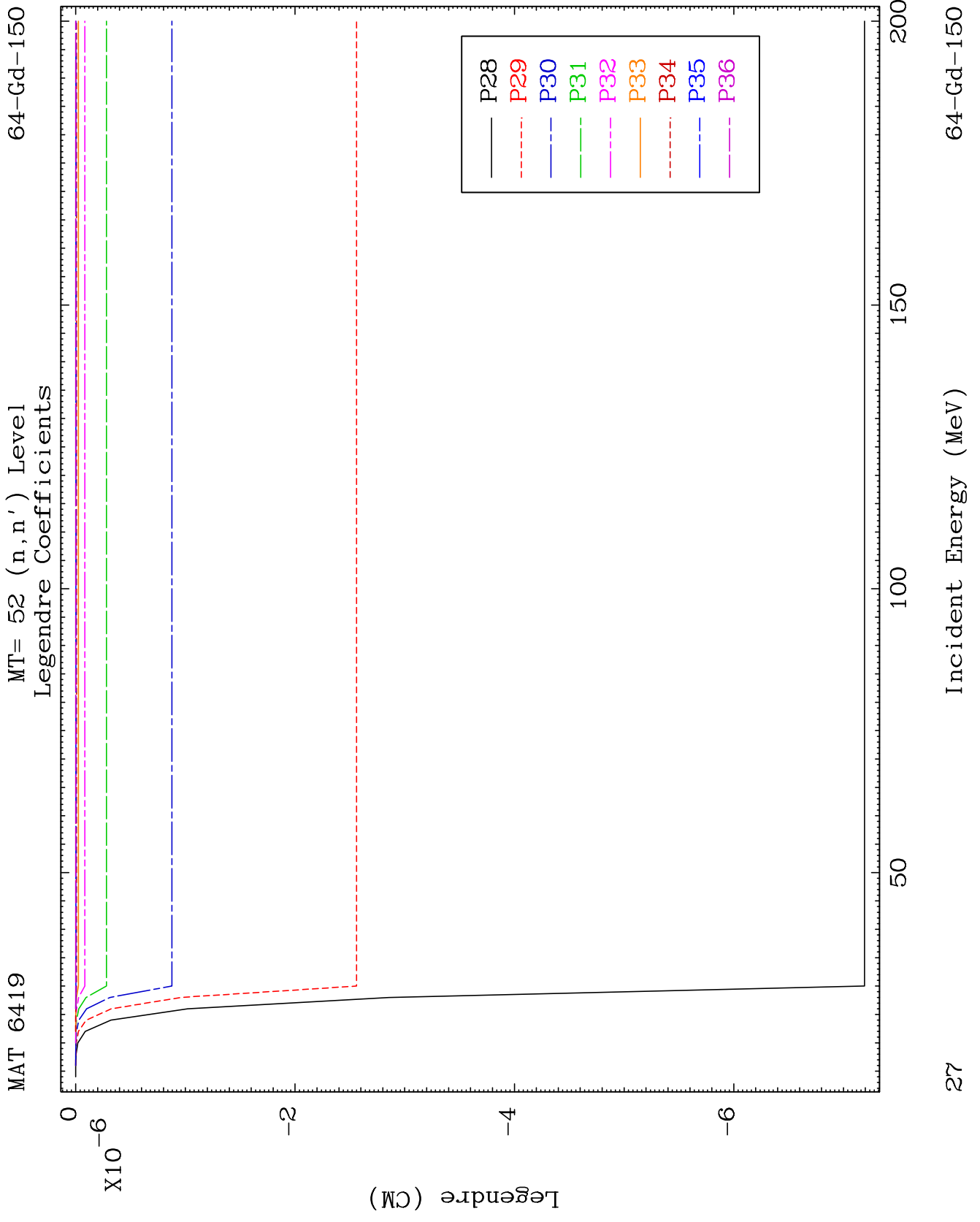
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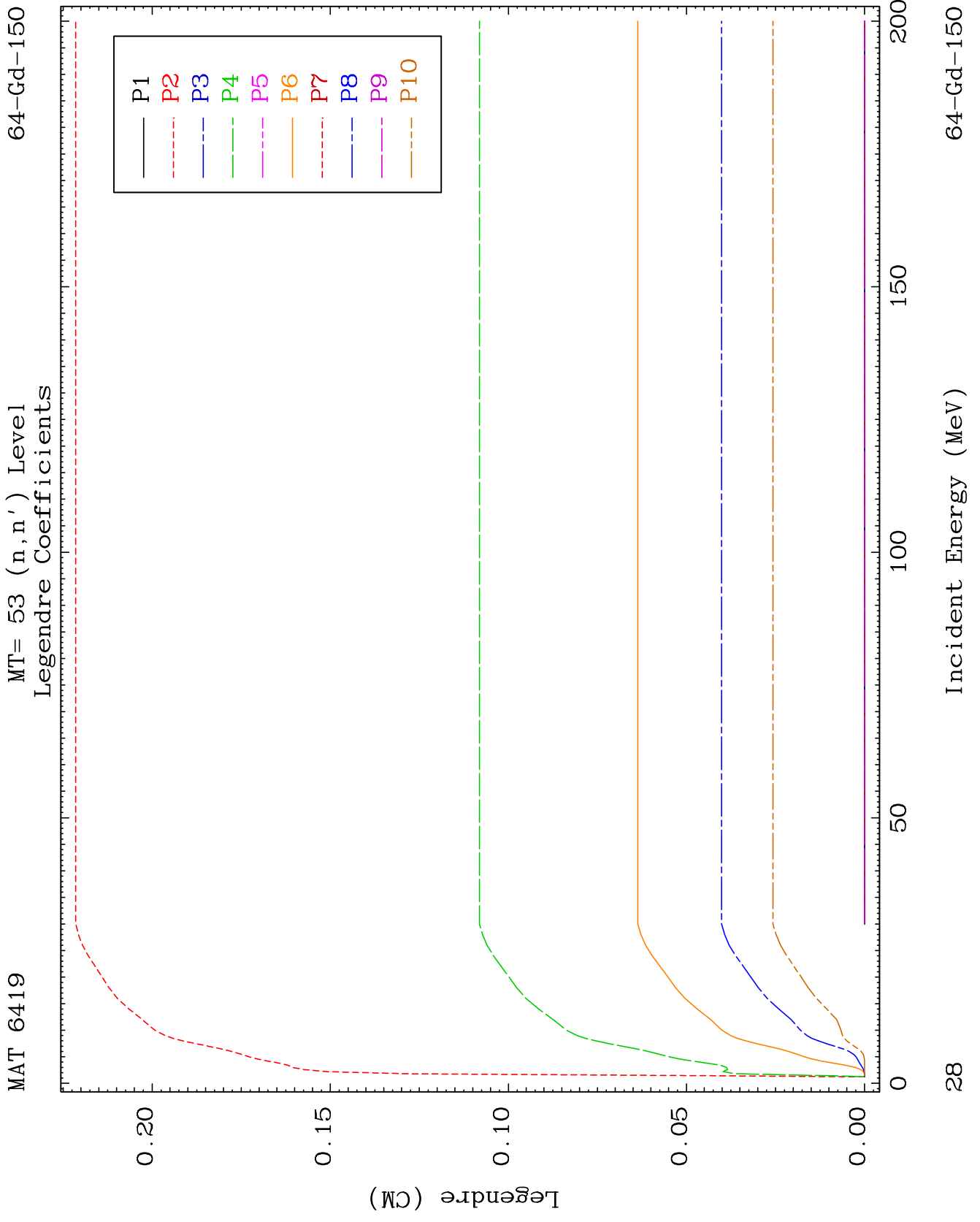


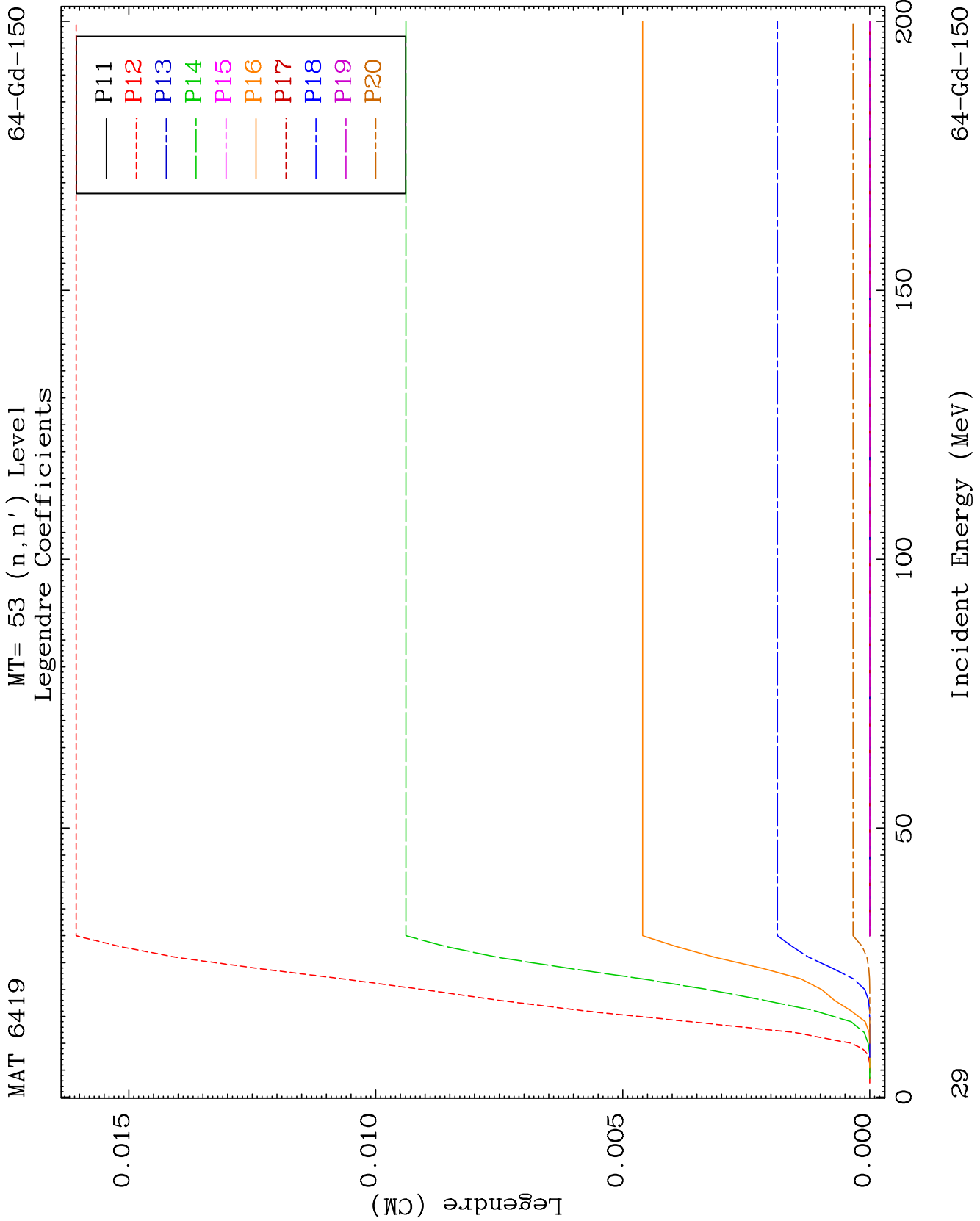
26

Incident Energy (MeV)

64-Gd-150



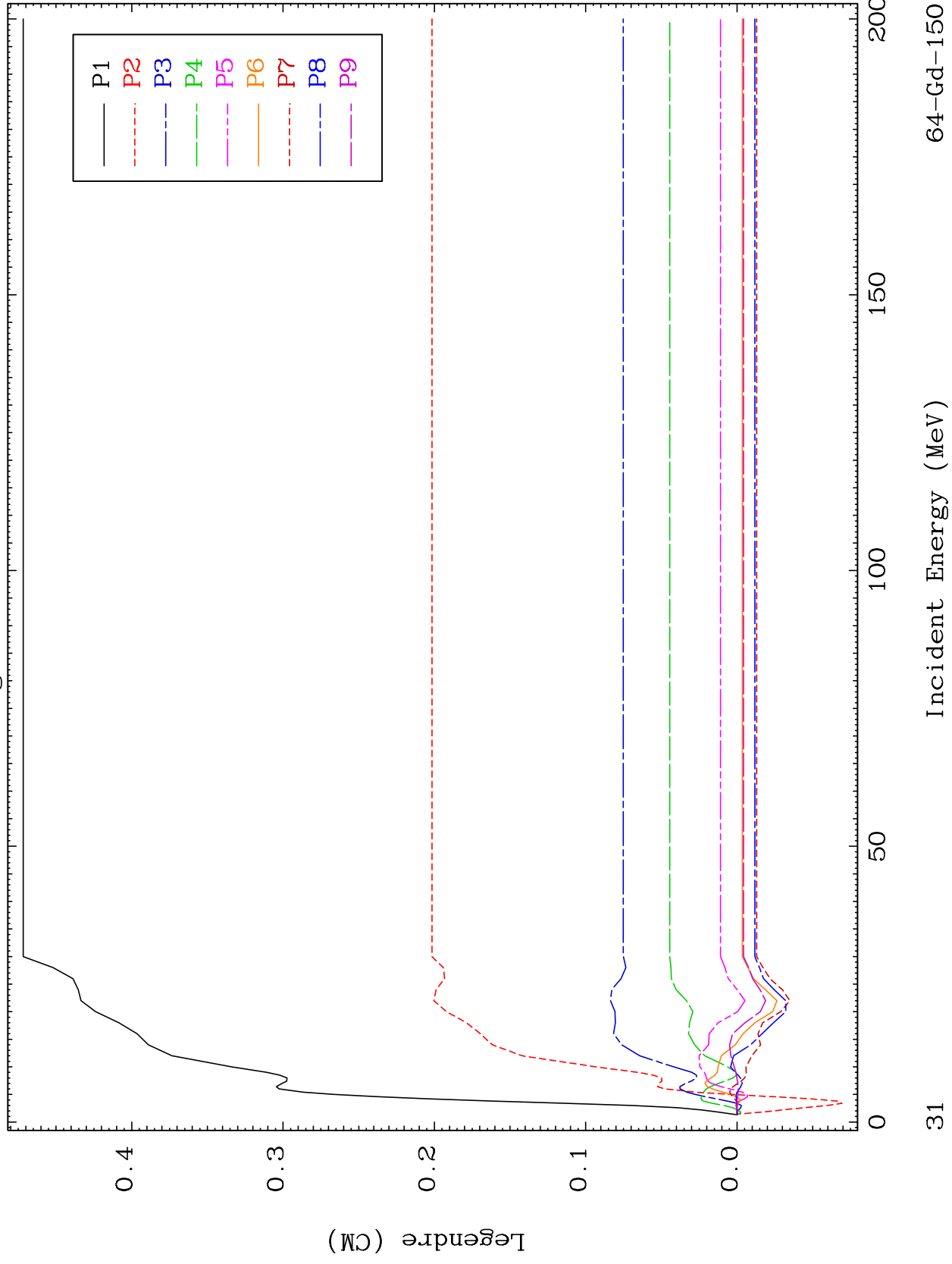




MAT 6419

MT= 54 (n,n') Level
Legendre Coefficients

64-Gd-150



31

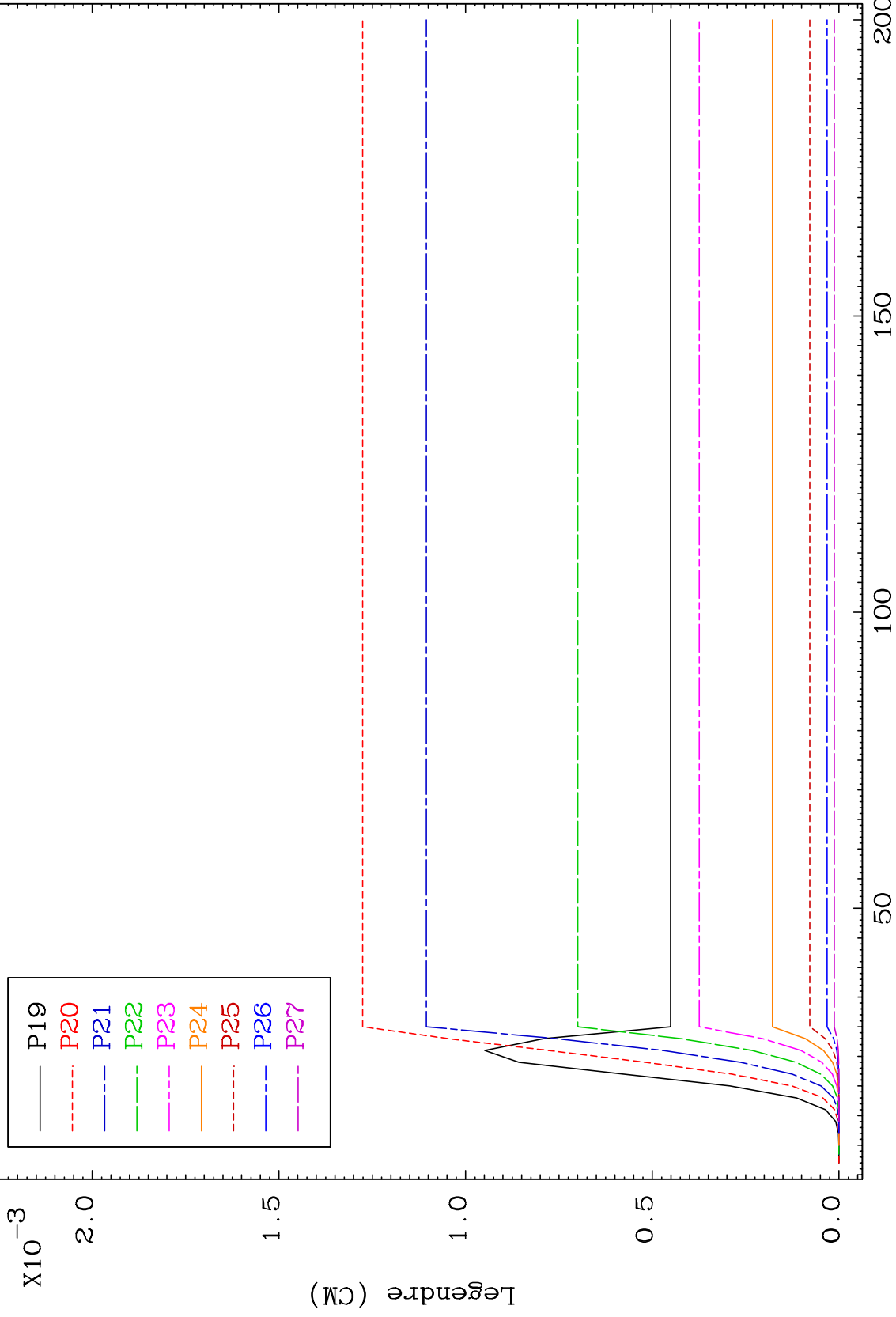
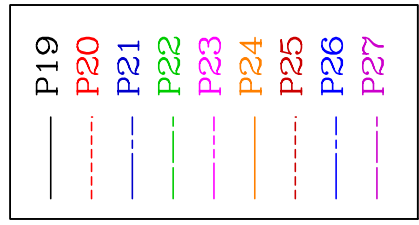
Incident Energy (MeV)

64-Gd-150

MAT 6419

MT= 54 (n,n') Level
Legendre Coefficients

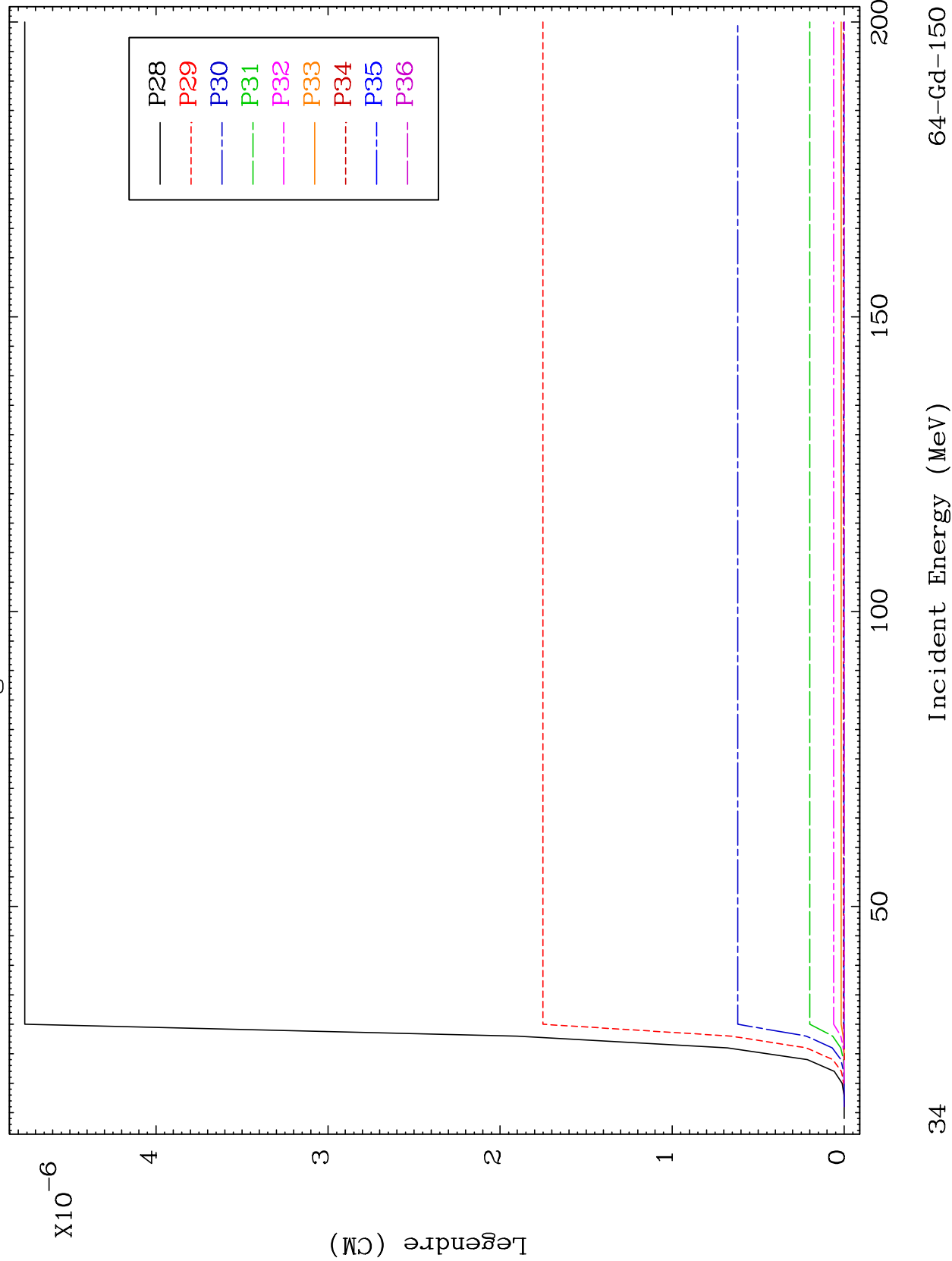
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MAT 6419

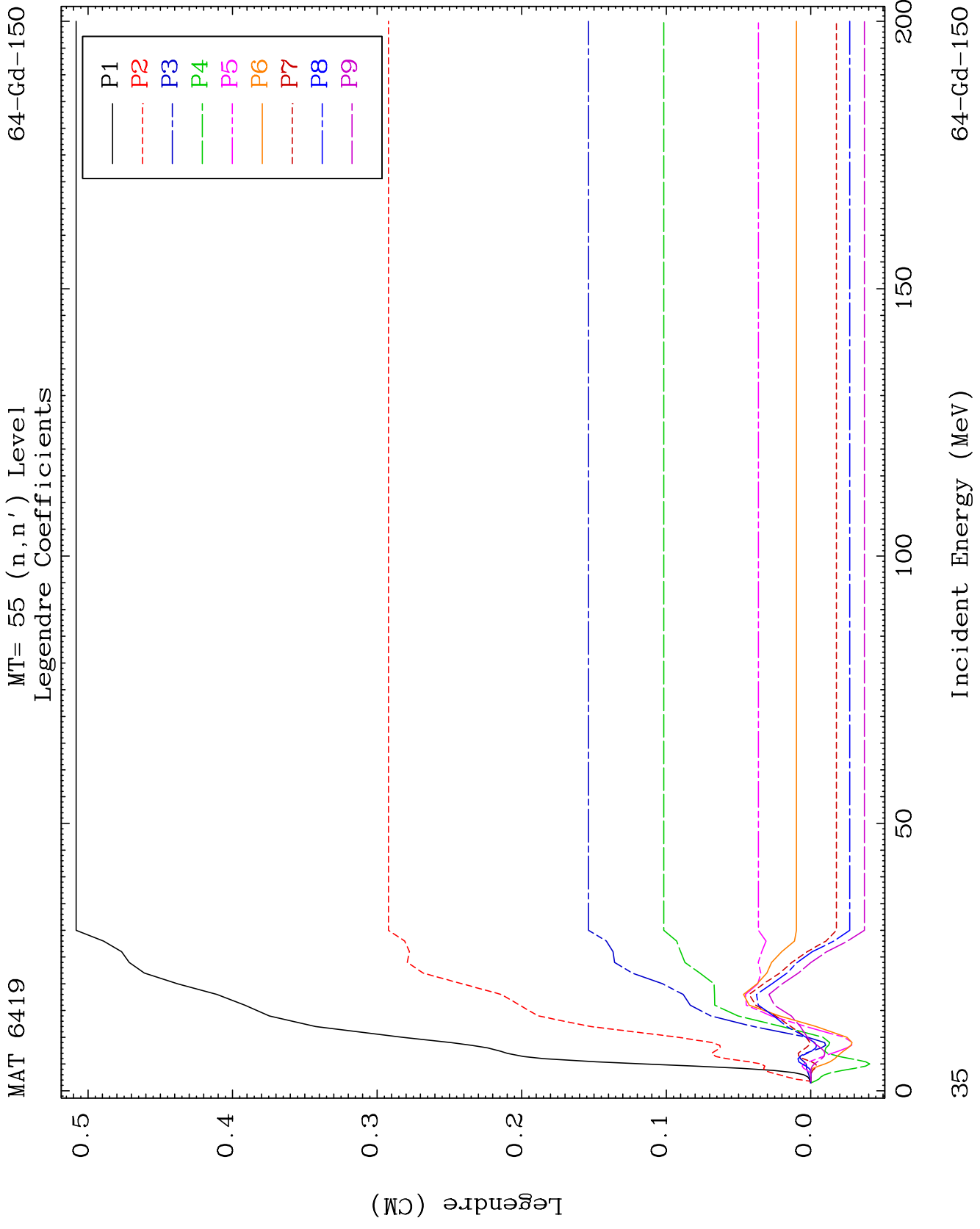
MT= 54 (n,n') Level
Legendre Coefficients

64-Gd-150



34

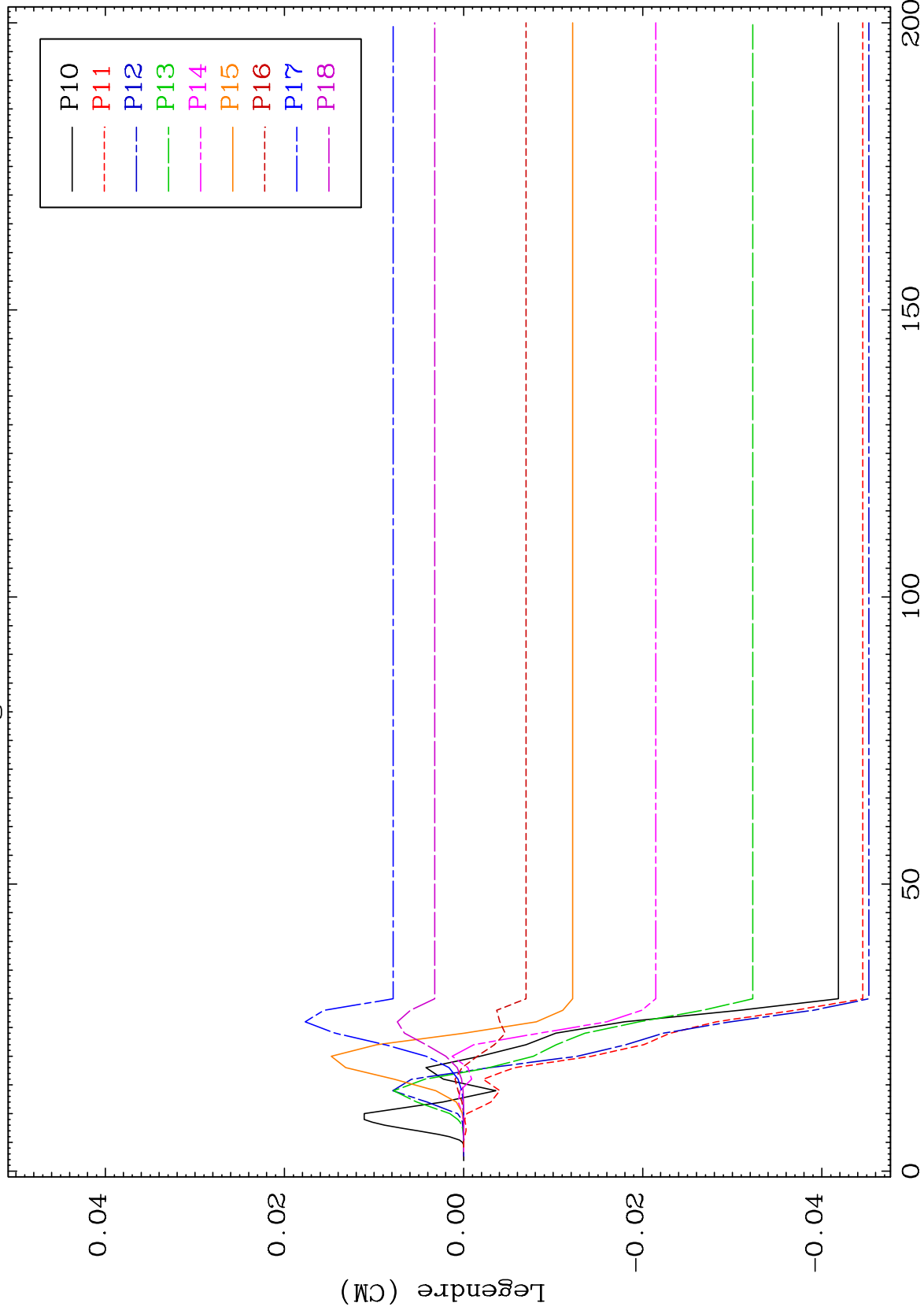
64-Gd-150



MAT 6419

MT= 55 (n,n') Level
Legendre Coefficients

64-Gd-150



36

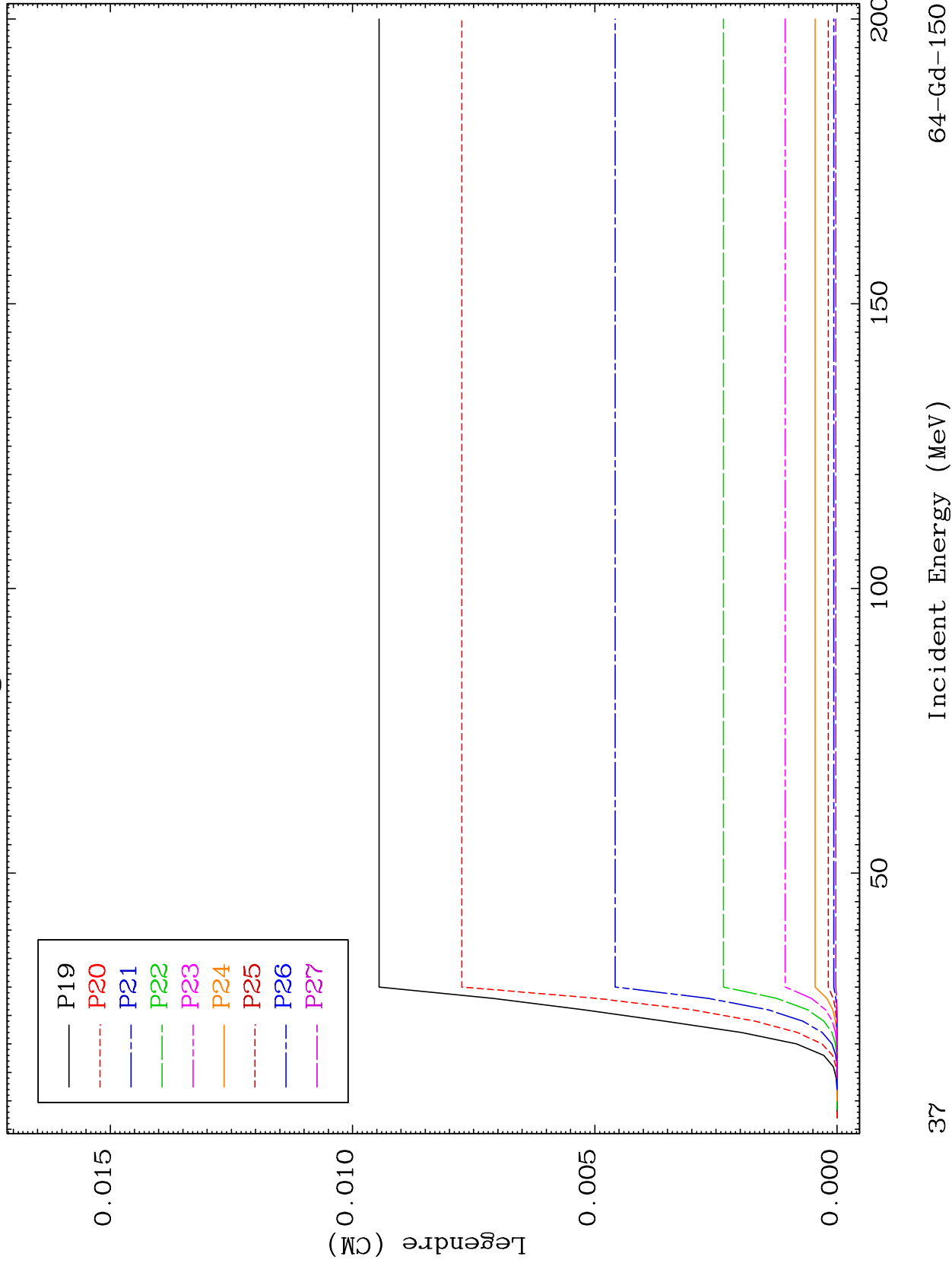
Incident Energy (MeV)

64-Gd-150

MAT 6419

MT= 55 (n,n') Level
Legendre Coefficients

64-Gd-150



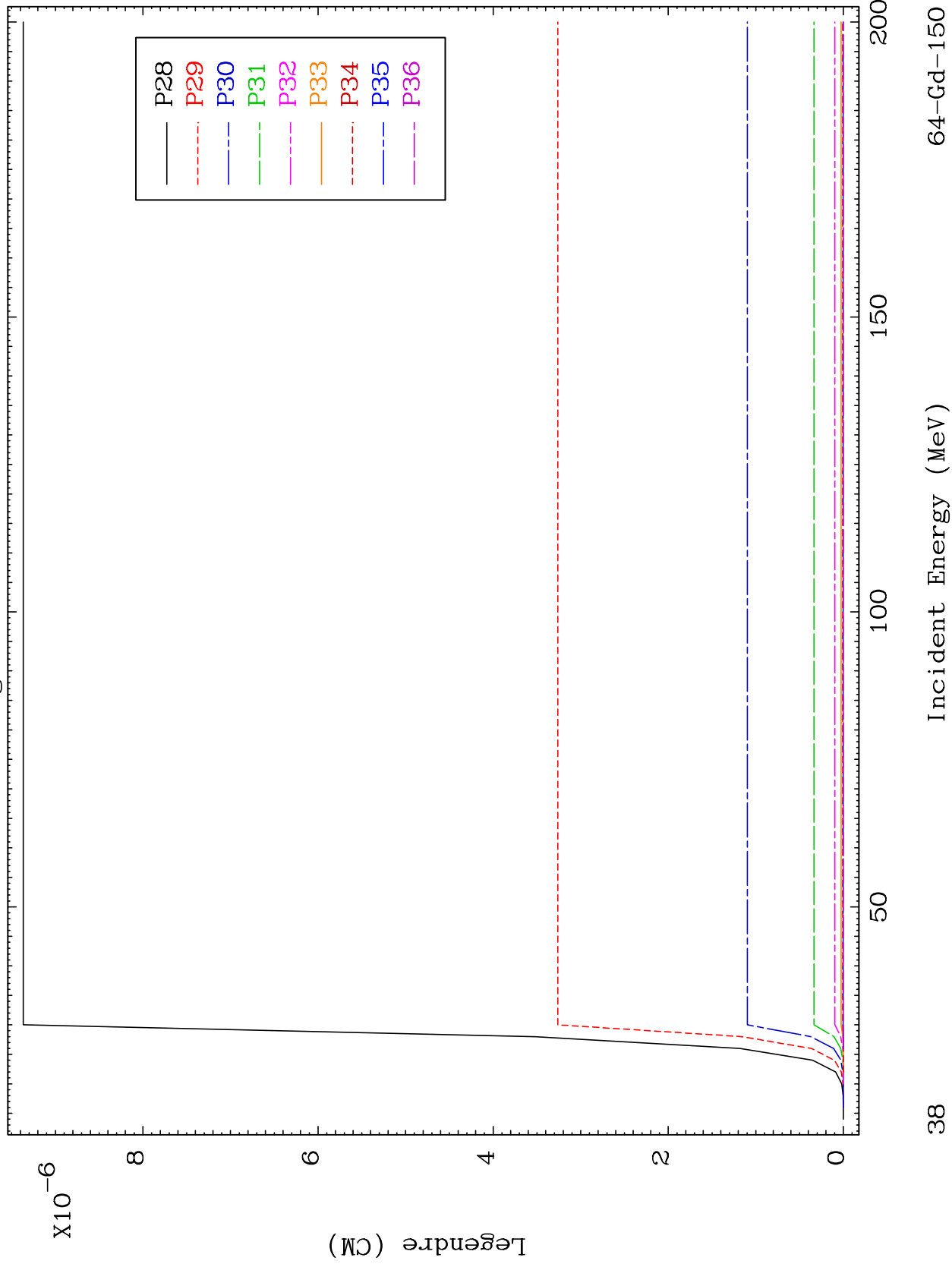
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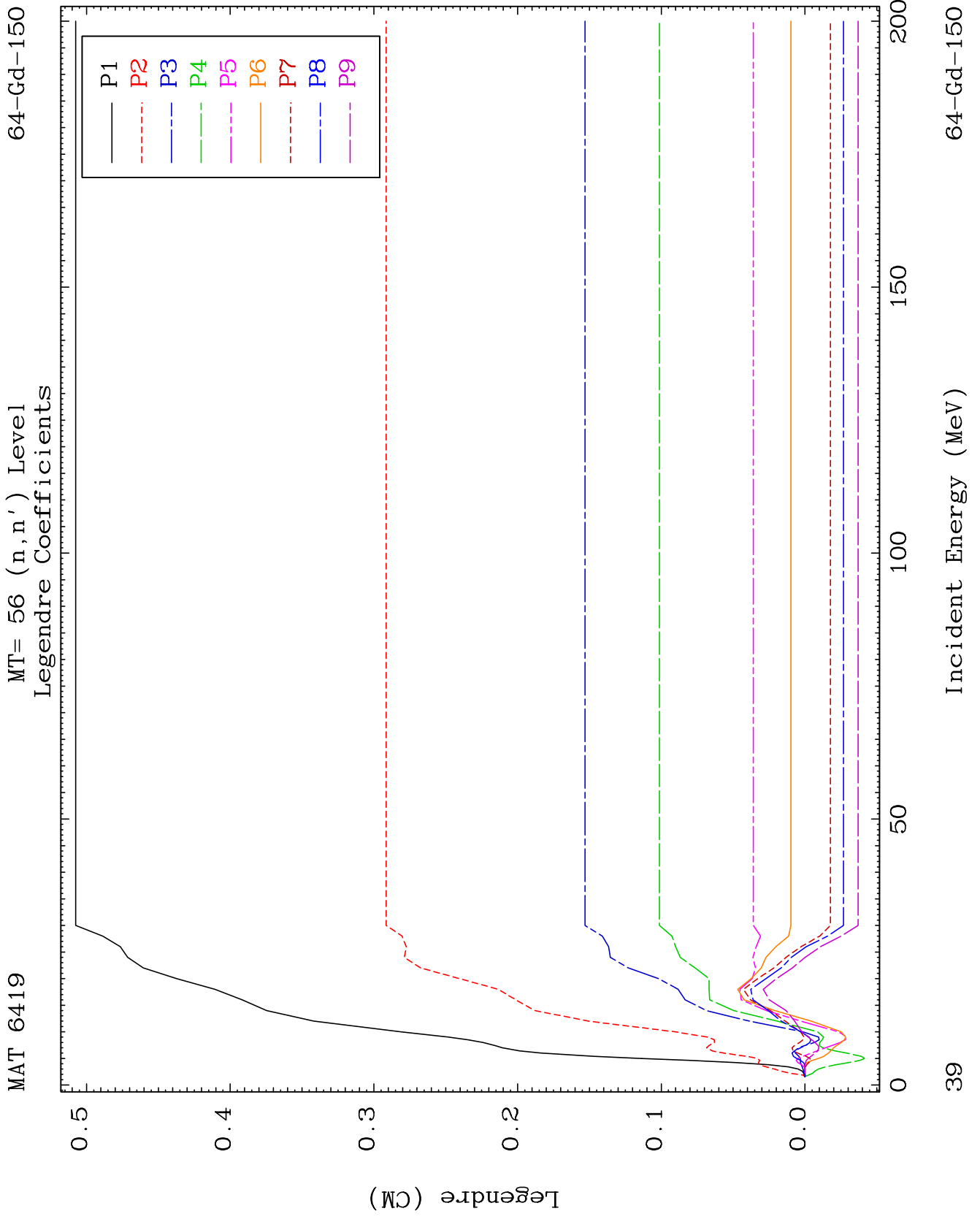
64-Gd-150

MAT 6419

MT= 55 (n,n') Level
Legendre Coefficients

64-Gd-150

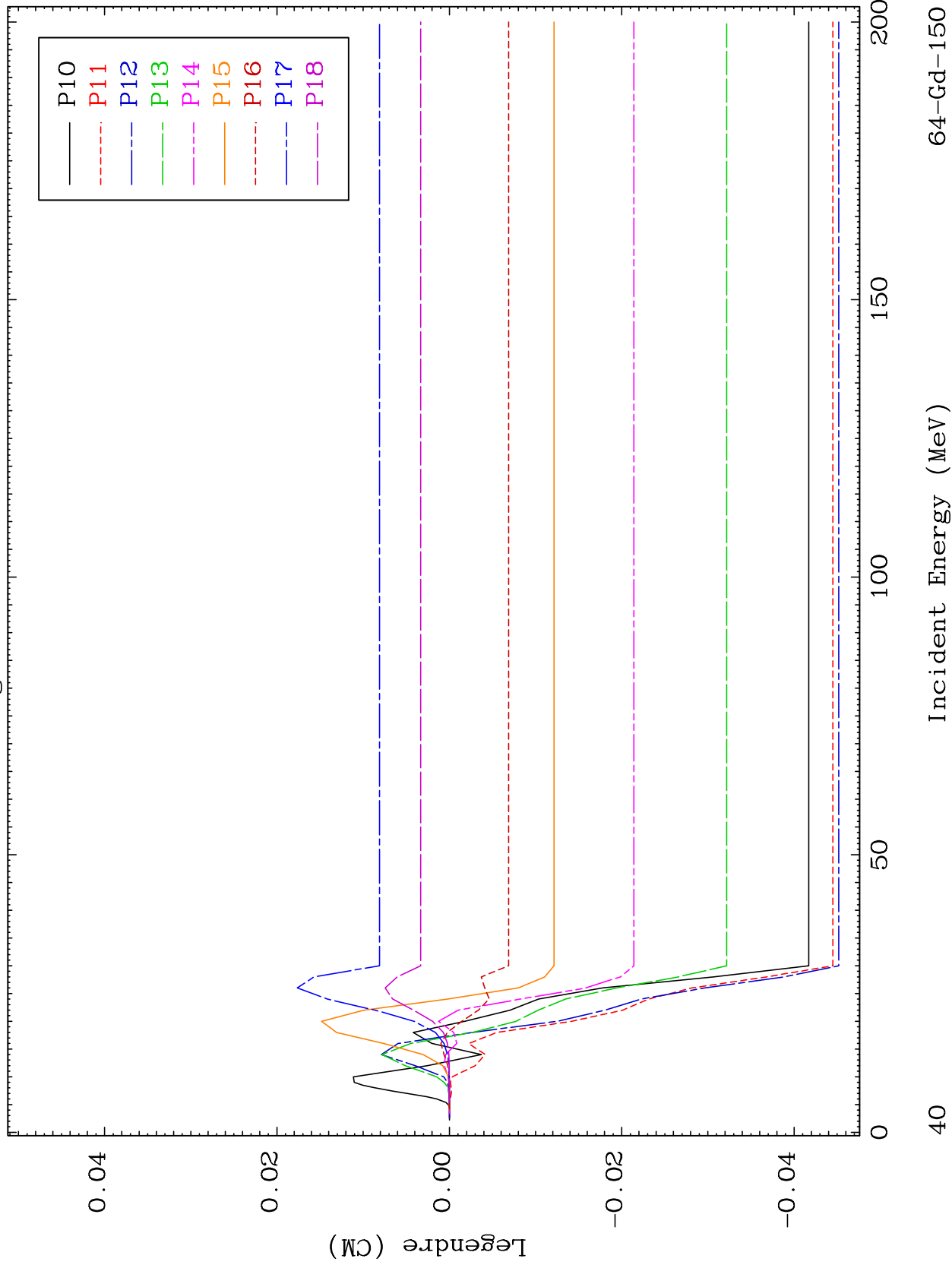




MAT 6419

MT= 56 (n,n') Level
Legendre Coefficients

64-Gd-150



64-Gd-150

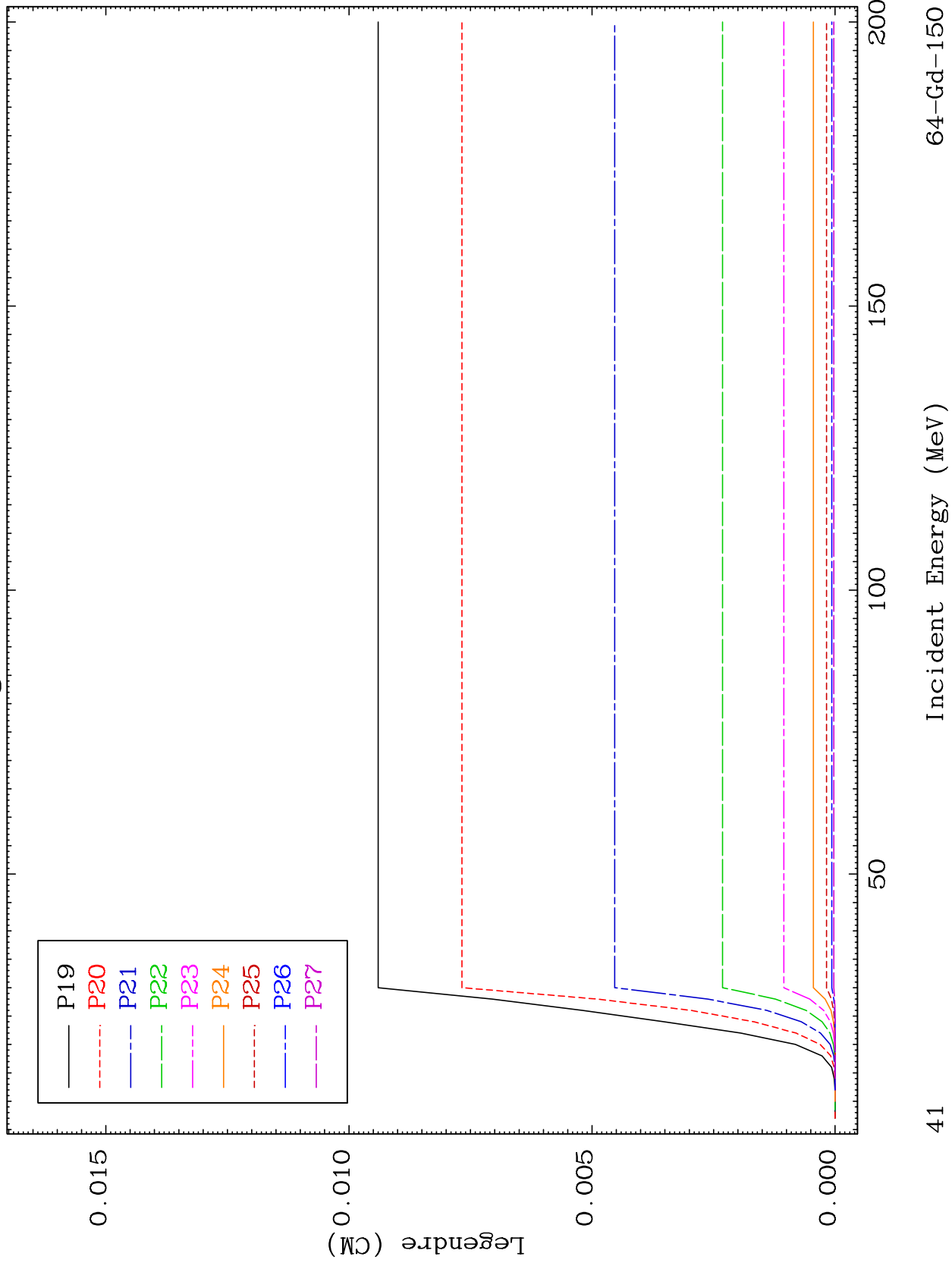
Incident Energy (MeV)

40

MAT 6419

MT= 56 (n,n') Level
Legendre Coefficients

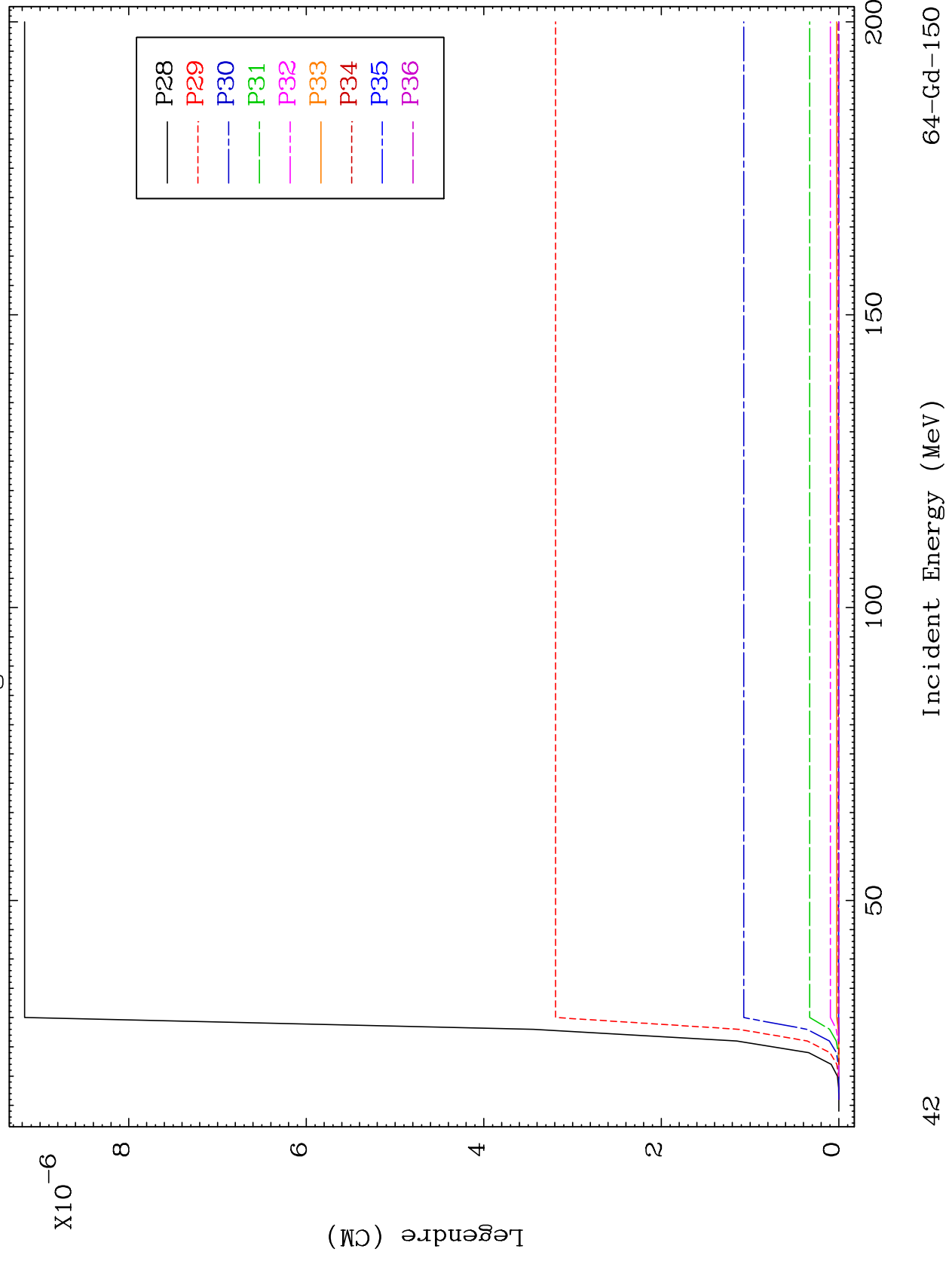
64-Gd-150



MAT 6419

MT= 56 (n,n') Level
Legendre Coefficients

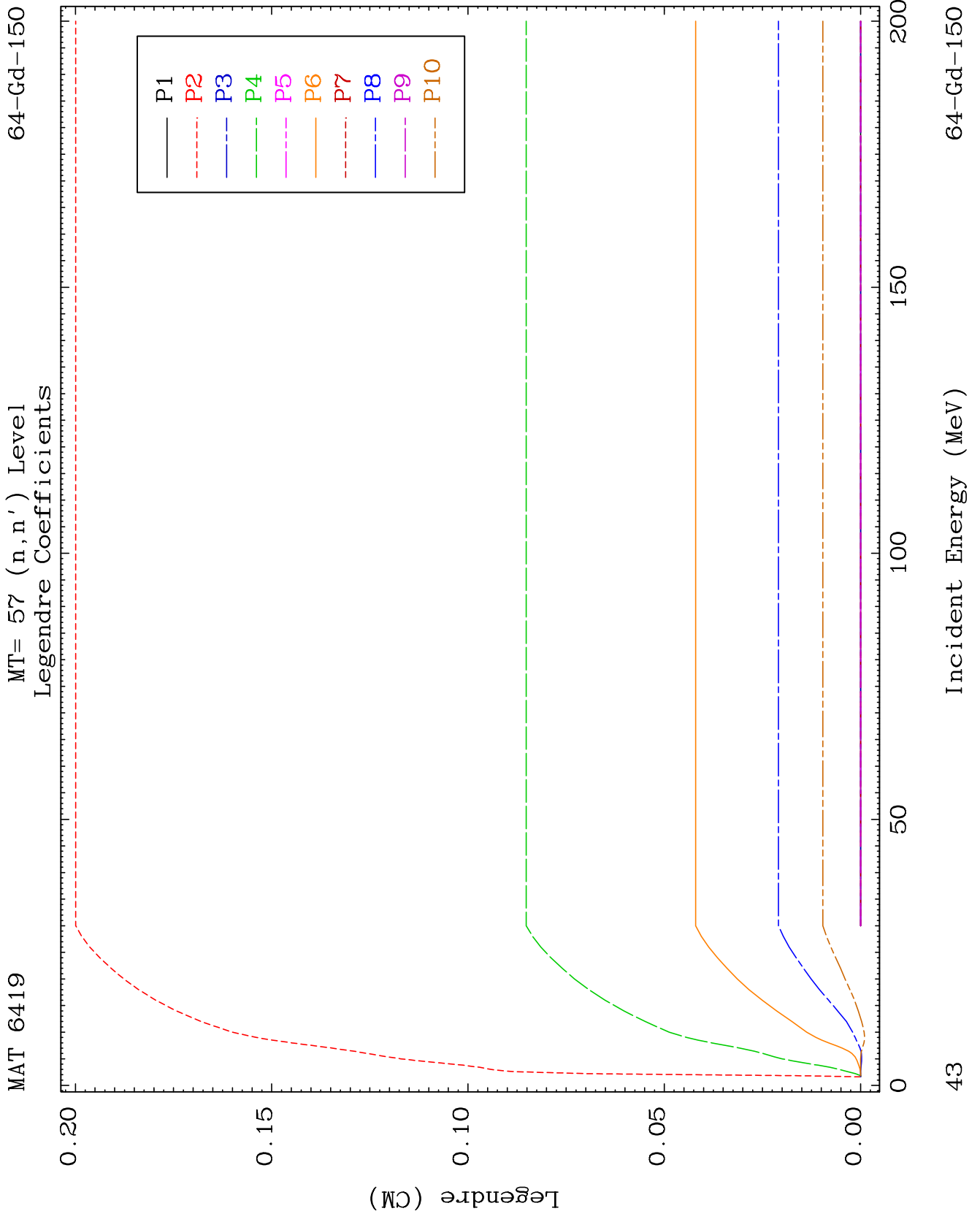
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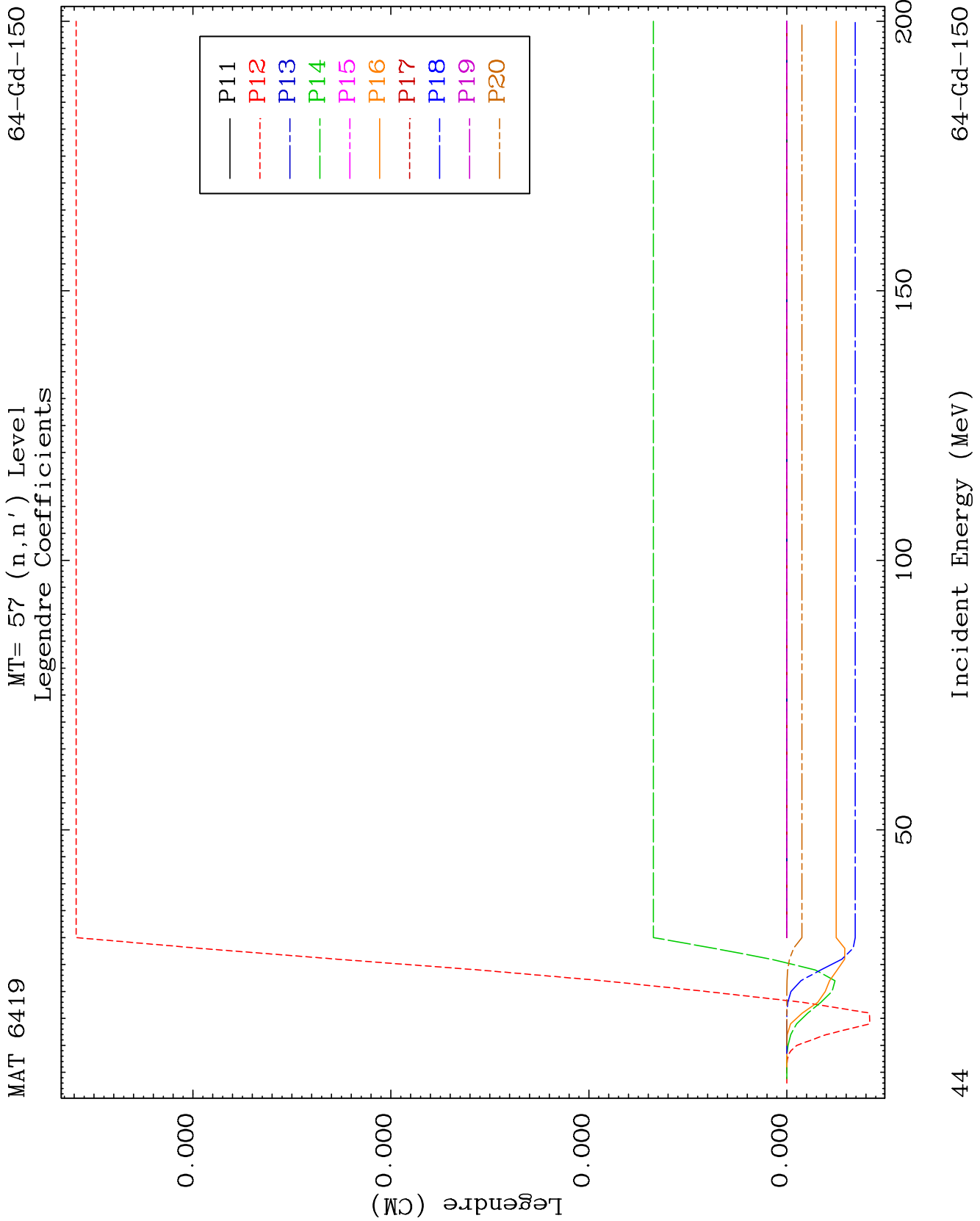


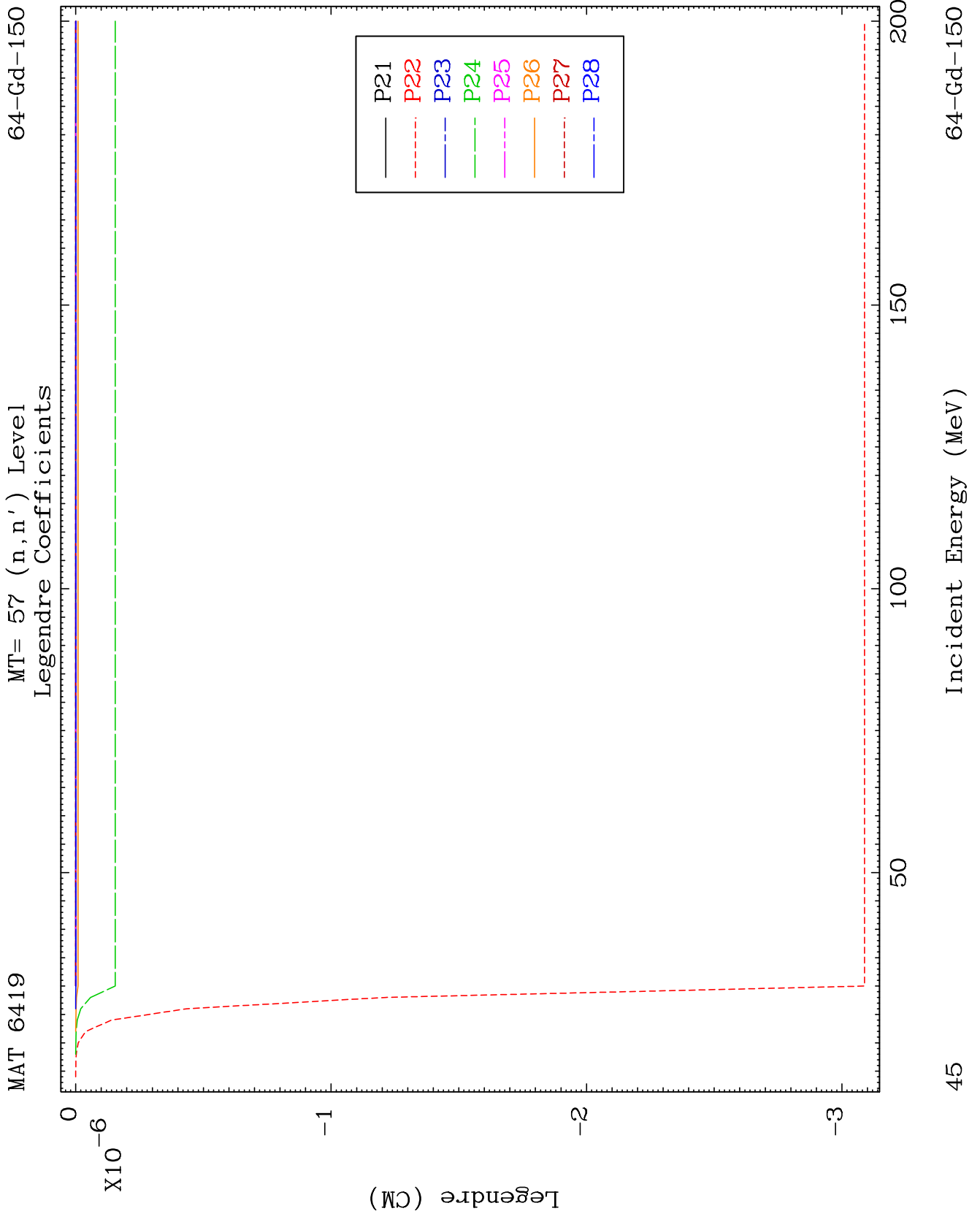
42

Incident Energy (MeV)

64-Gd-150



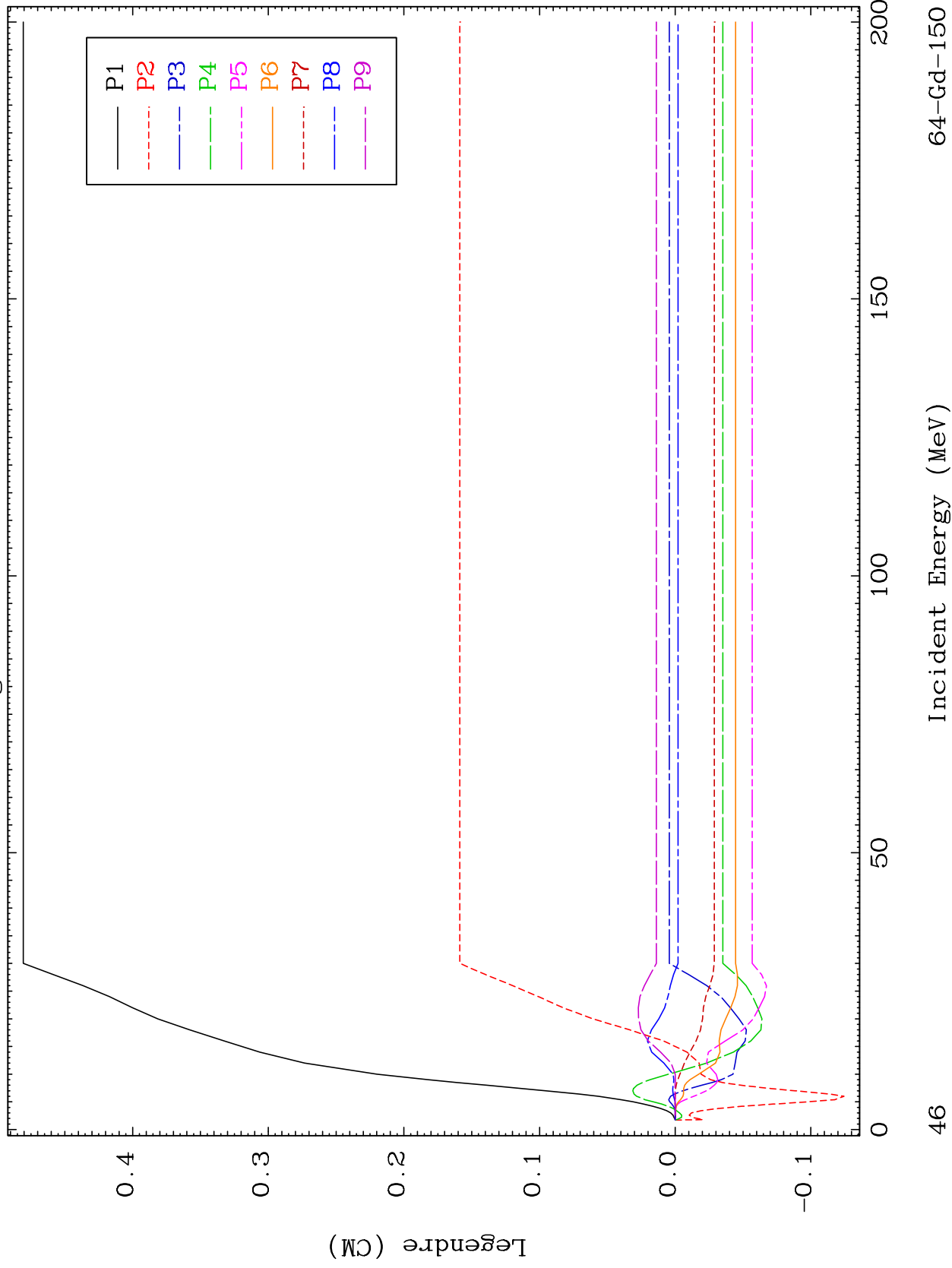




MAT 6419

MT= 58 (n,n') Level
Legendre Coefficients

64-Gd-150



64-Gd-150

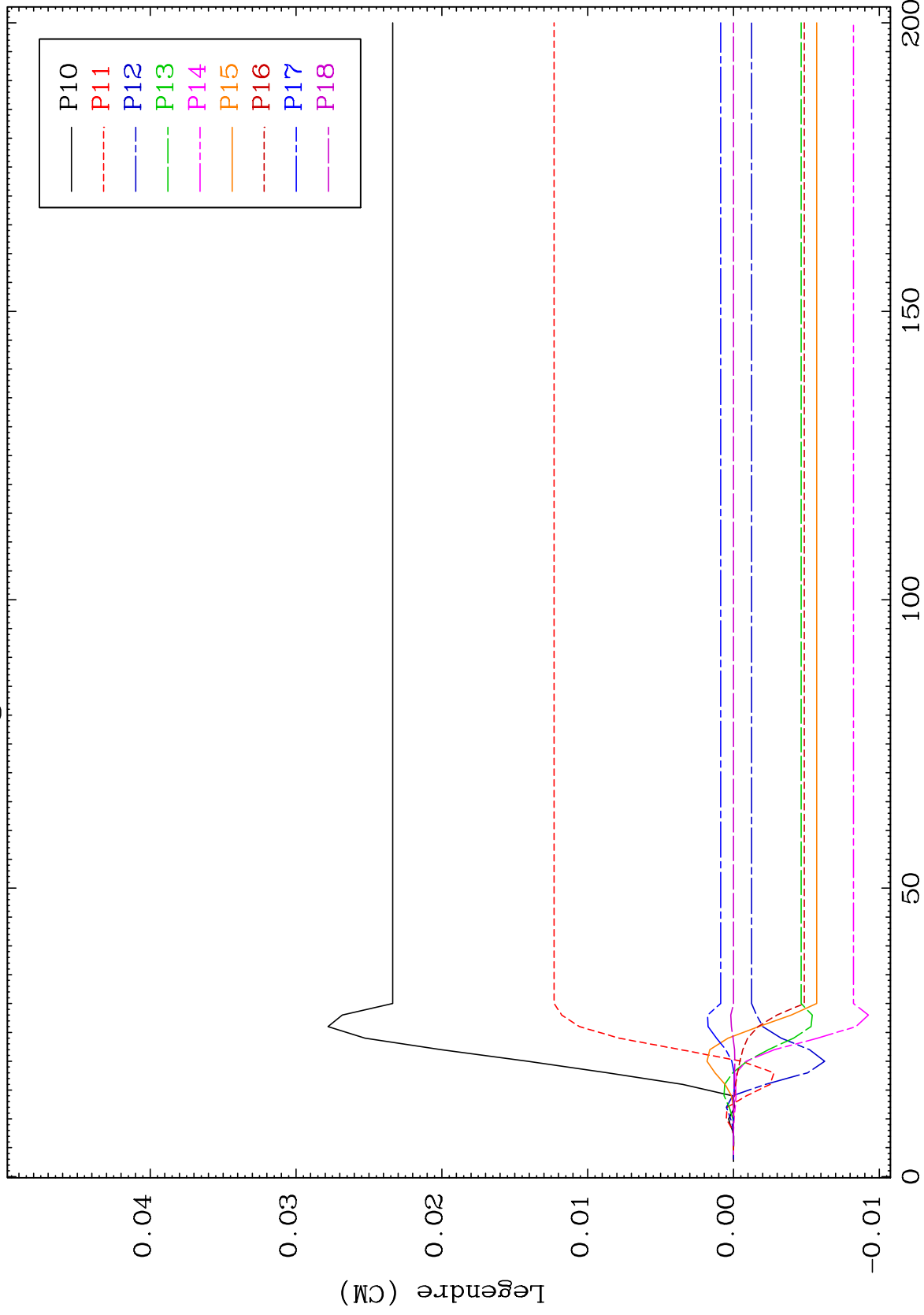
Incident Energy (MeV)

46

MAT 6419

MT= 58 (n,n') Level
Legendre Coefficients

64-Gd-150



47

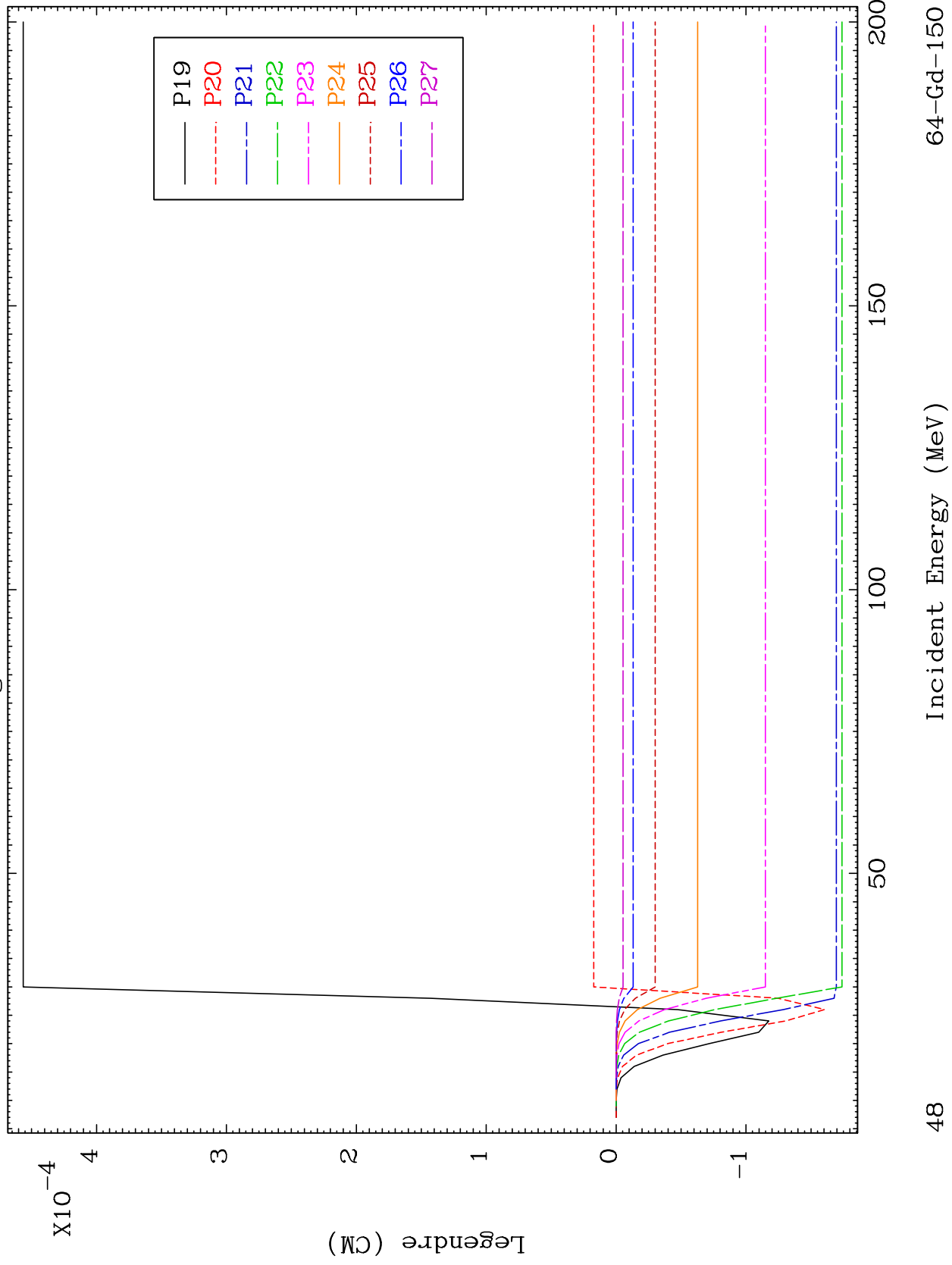
Incident Energy (MeV)

64-Gd-150

MAT 6419

MT= 58 (n,n') Level
Legendre Coefficients

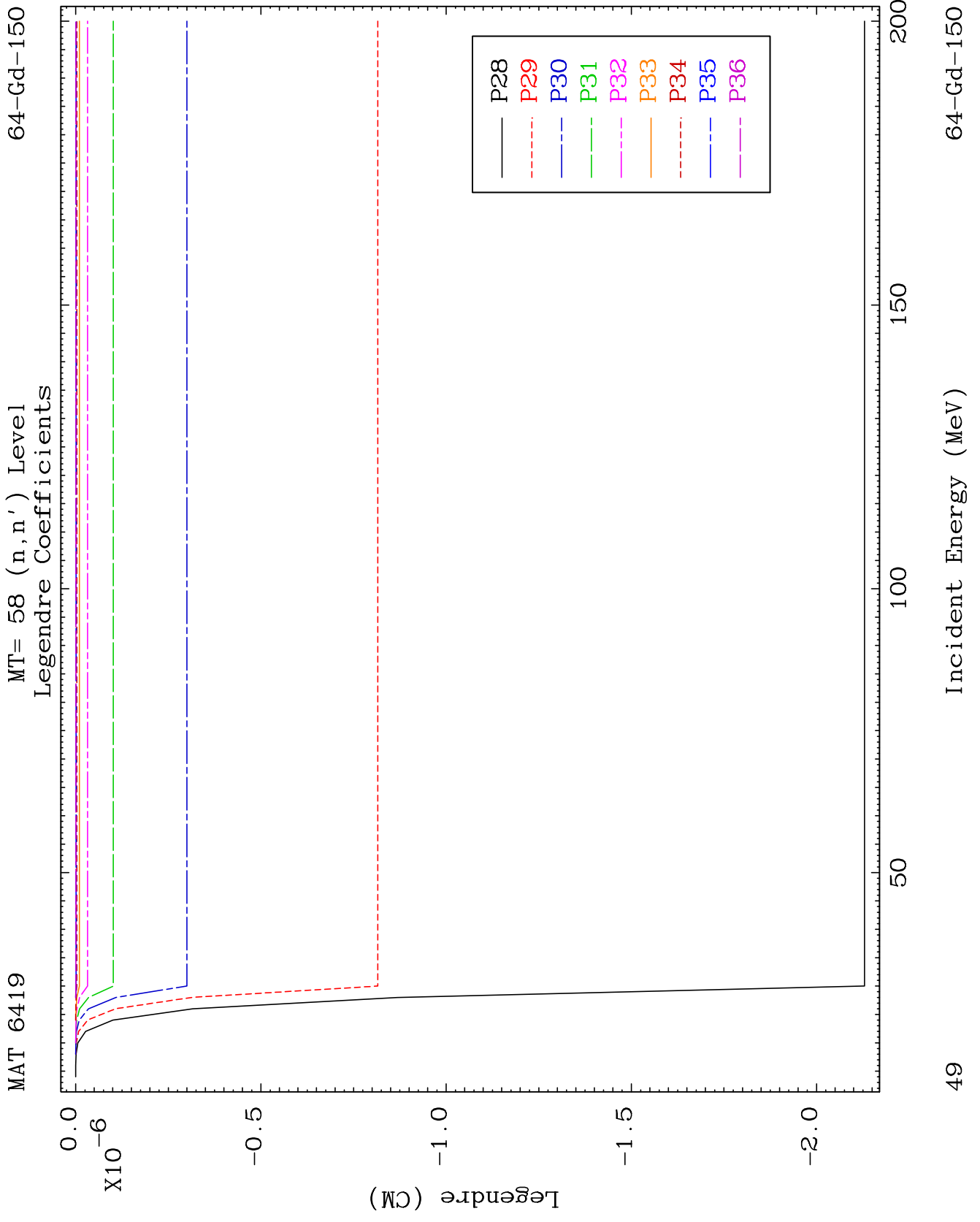
64-Gd-150



48

Incident Energy (MeV)

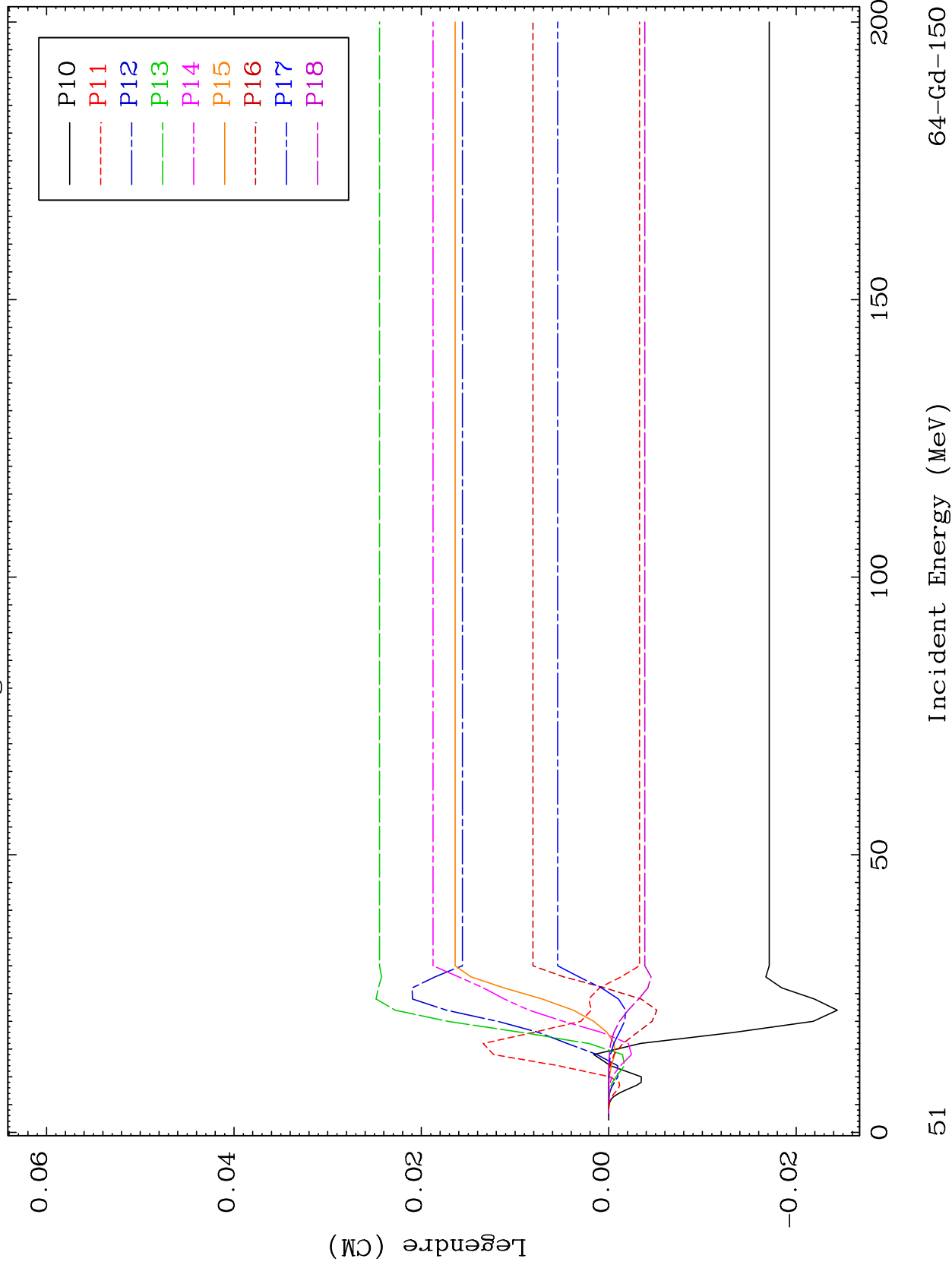
64-Gd-150



MAT 6419

MT= 59 (n,n') Level
Legendre Coefficients

64-Gd-150



51

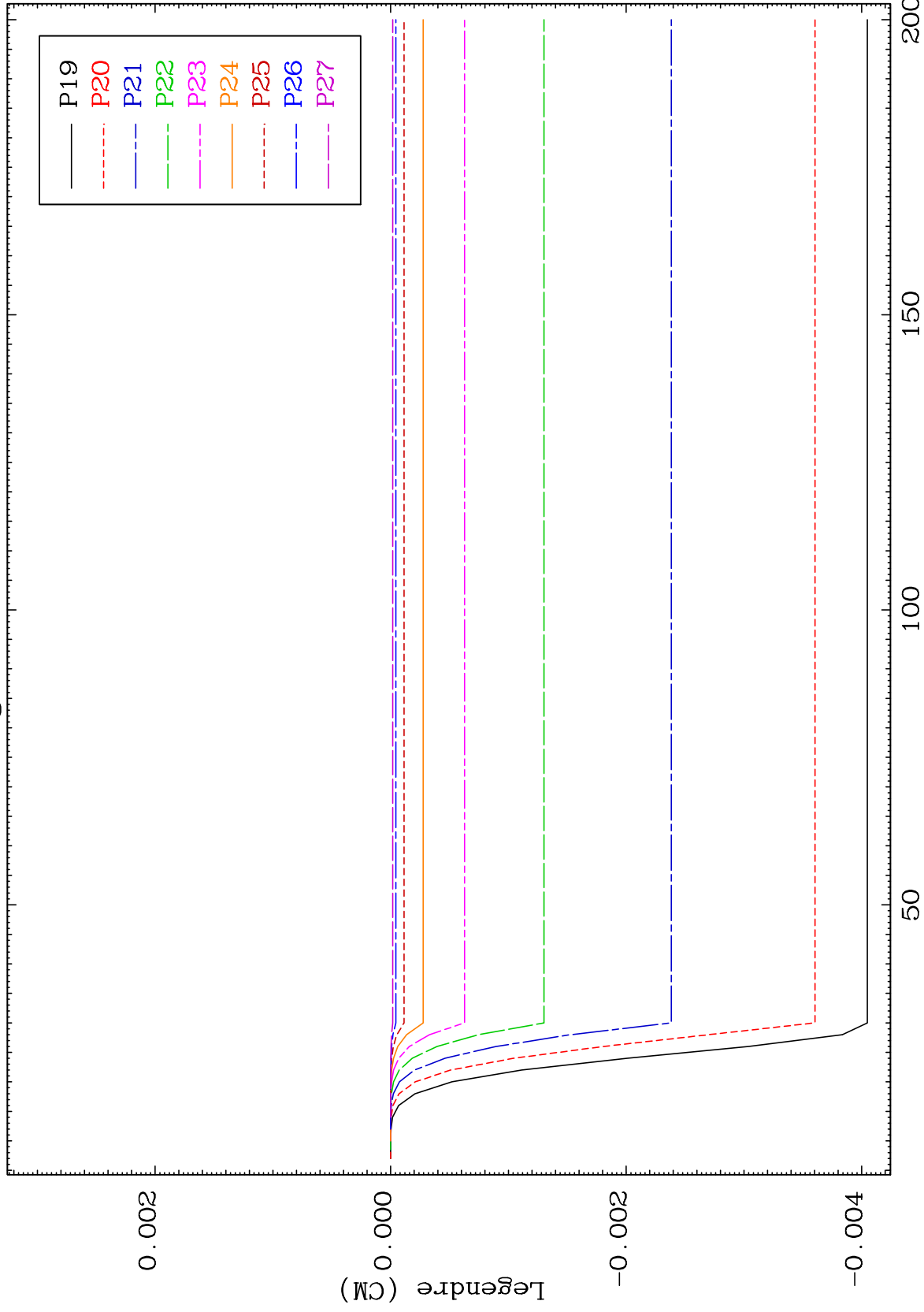
Incident Energy (MeV)

64-Gd-150

MAT 6419

MT= 59 (n,n') Level
Legendre Coefficients

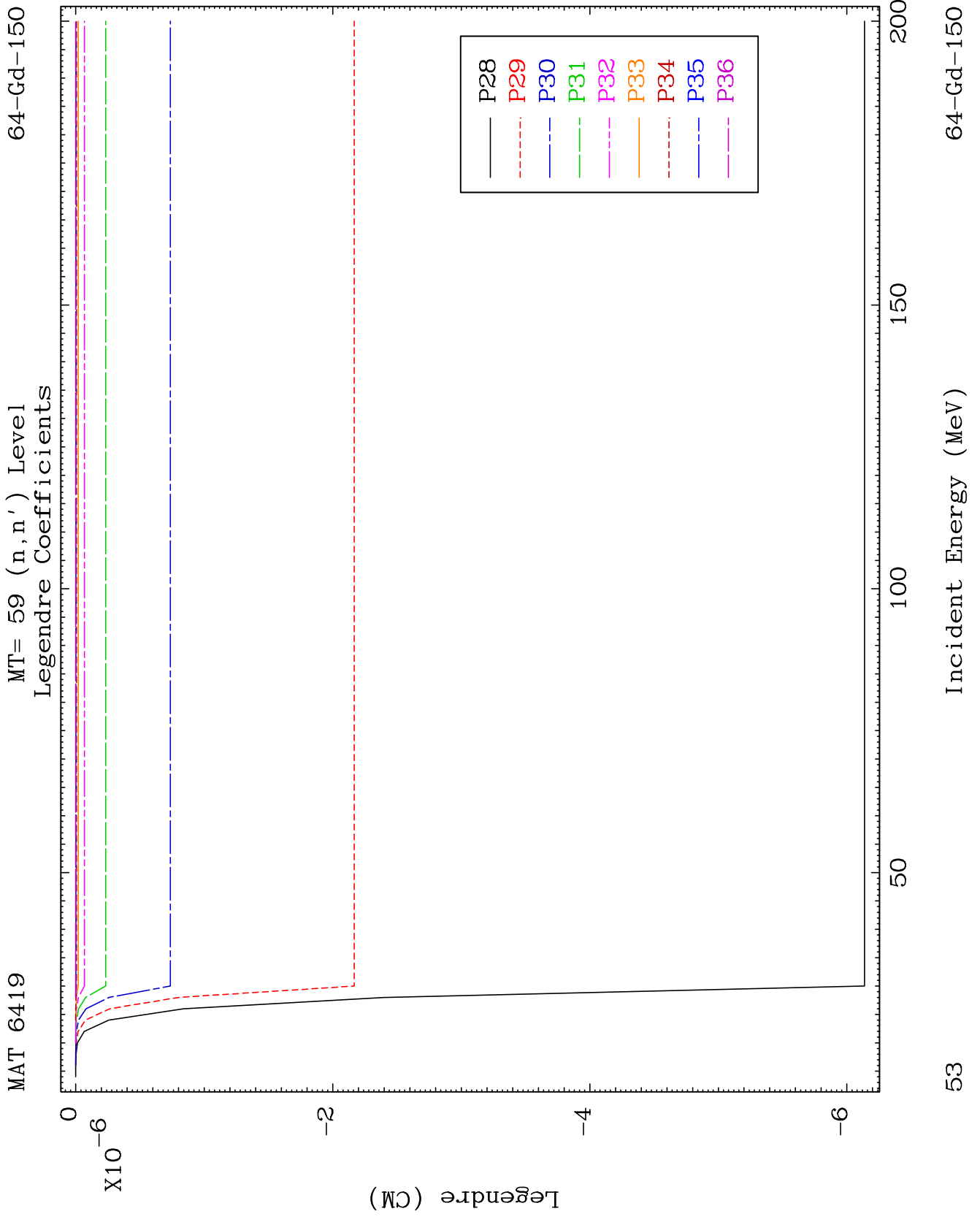
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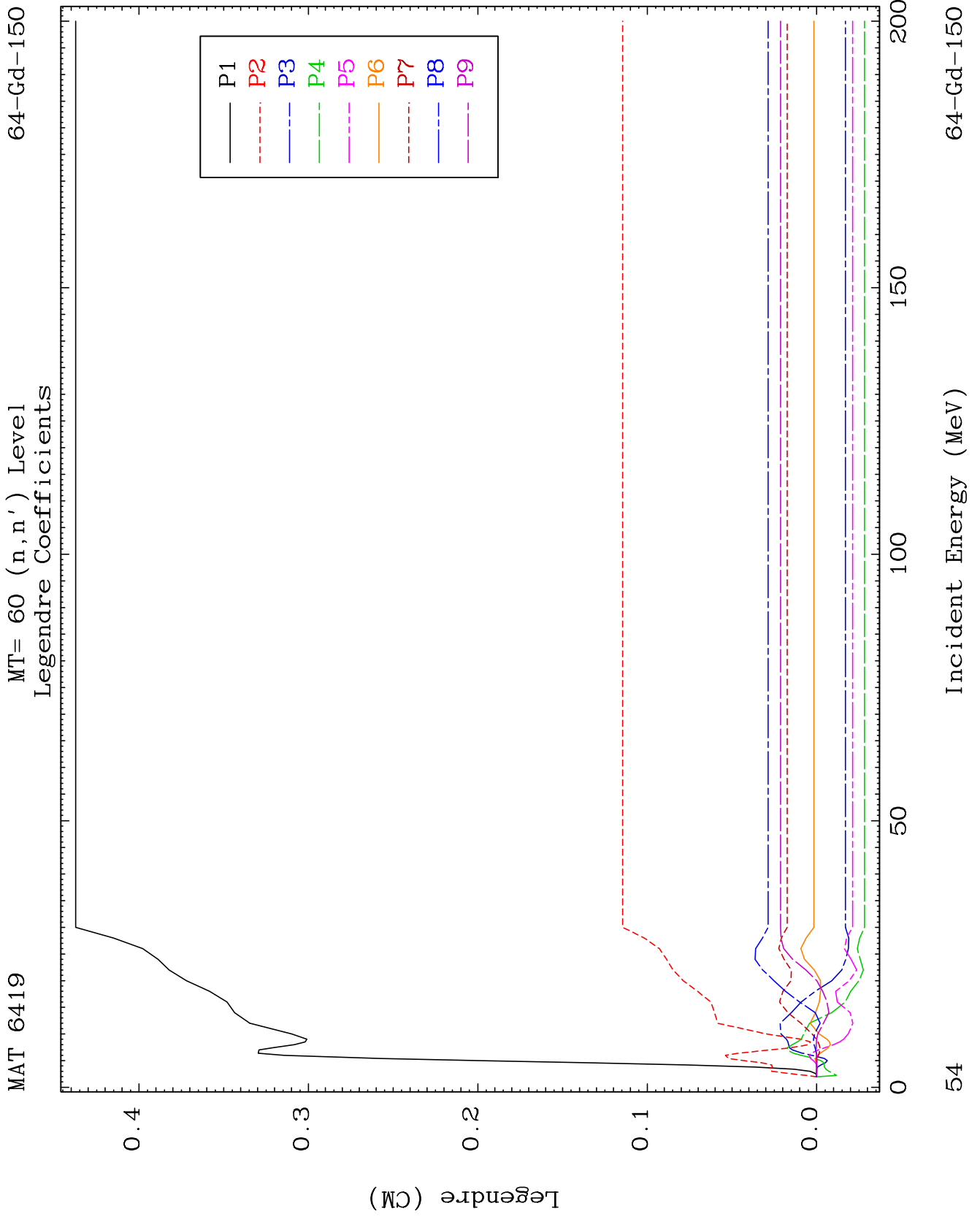


52

Incident Energy (MeV)

64-Gd-150

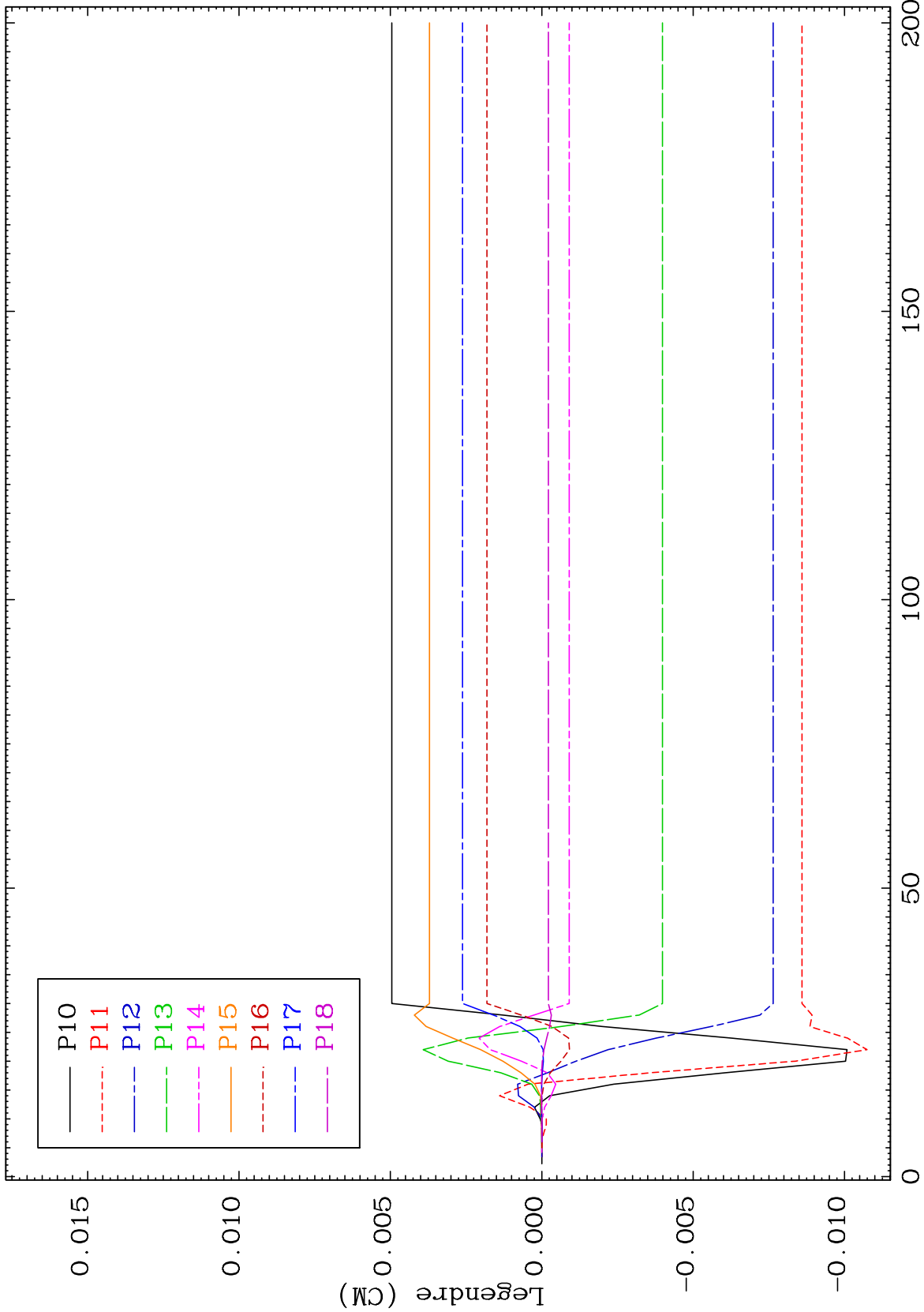




MAT 6419

MT= 60 (n,n') Level
Legendre Coefficients

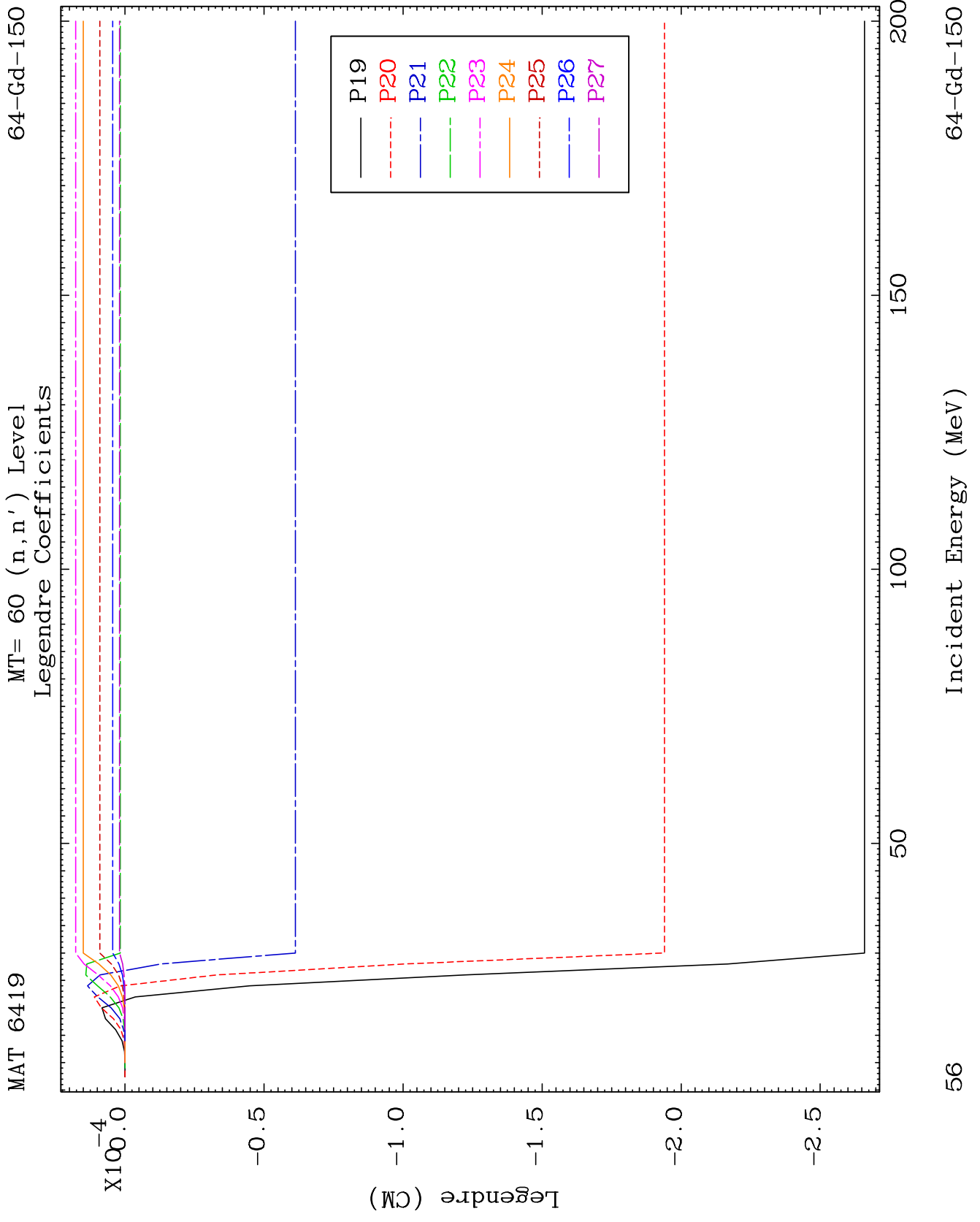
64-Gd-150



55

Incident Energy (MeV)

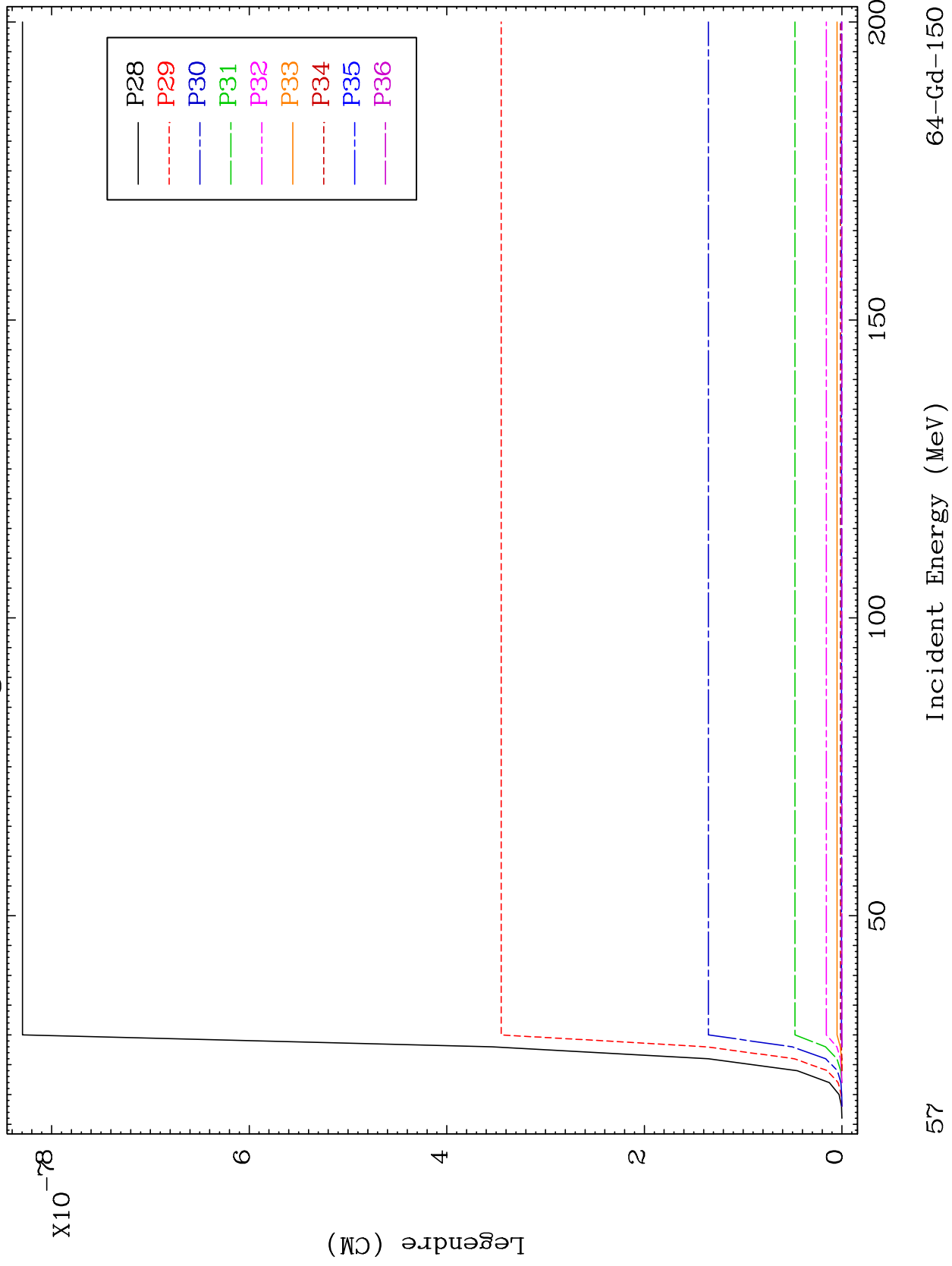
64-Gd-150



MAT 6419

MT= 60 (n,n') Level
Legendre Coefficients

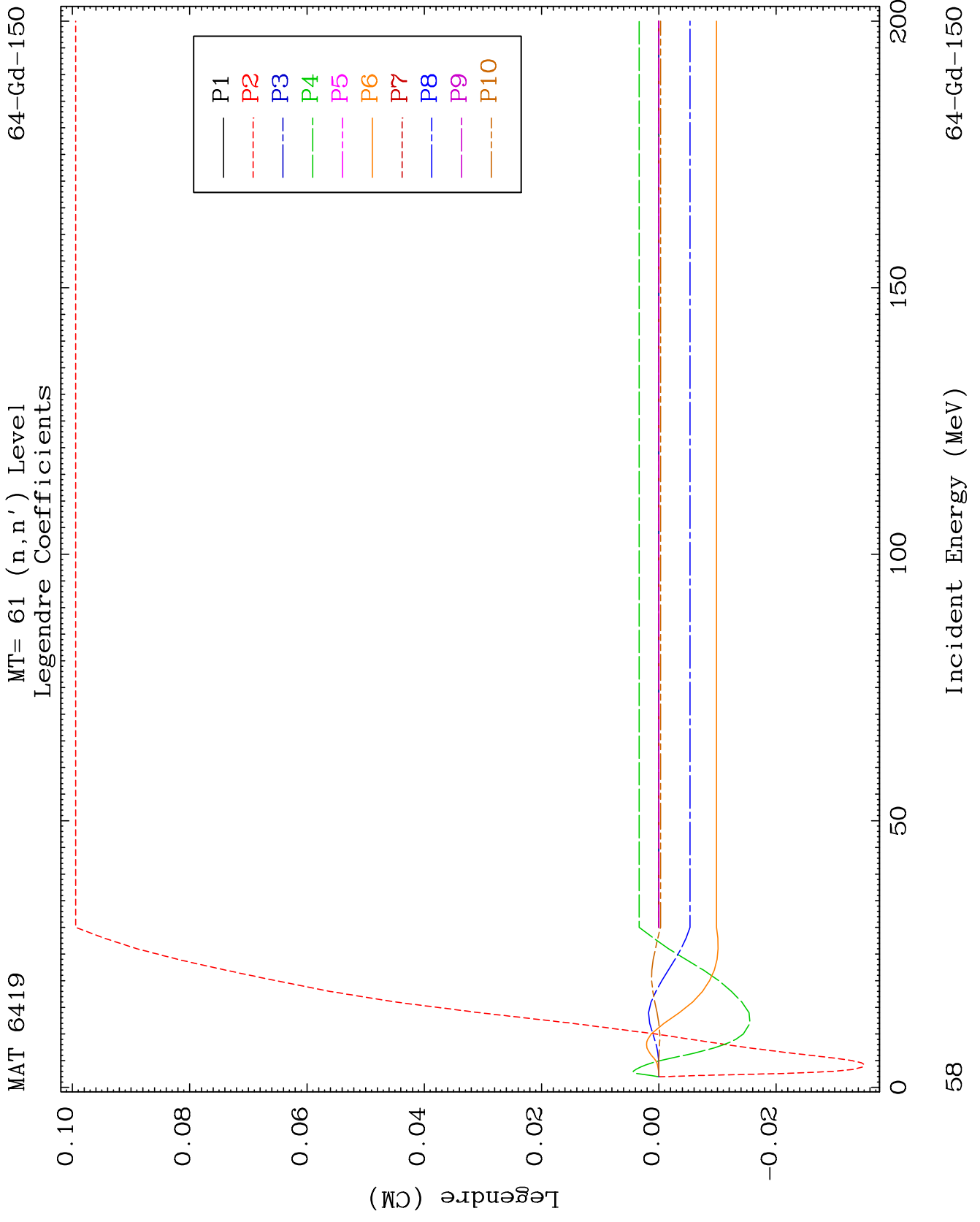
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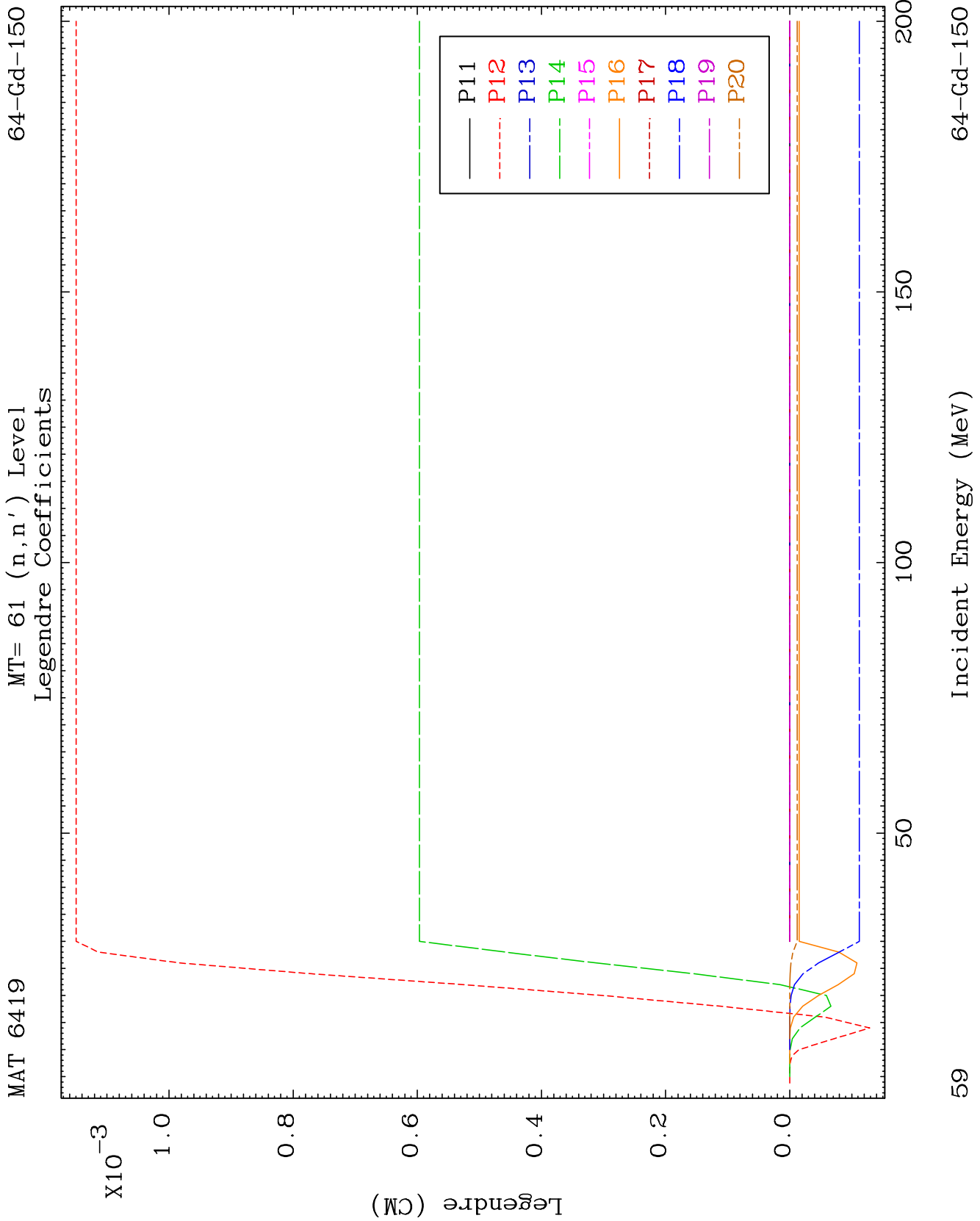


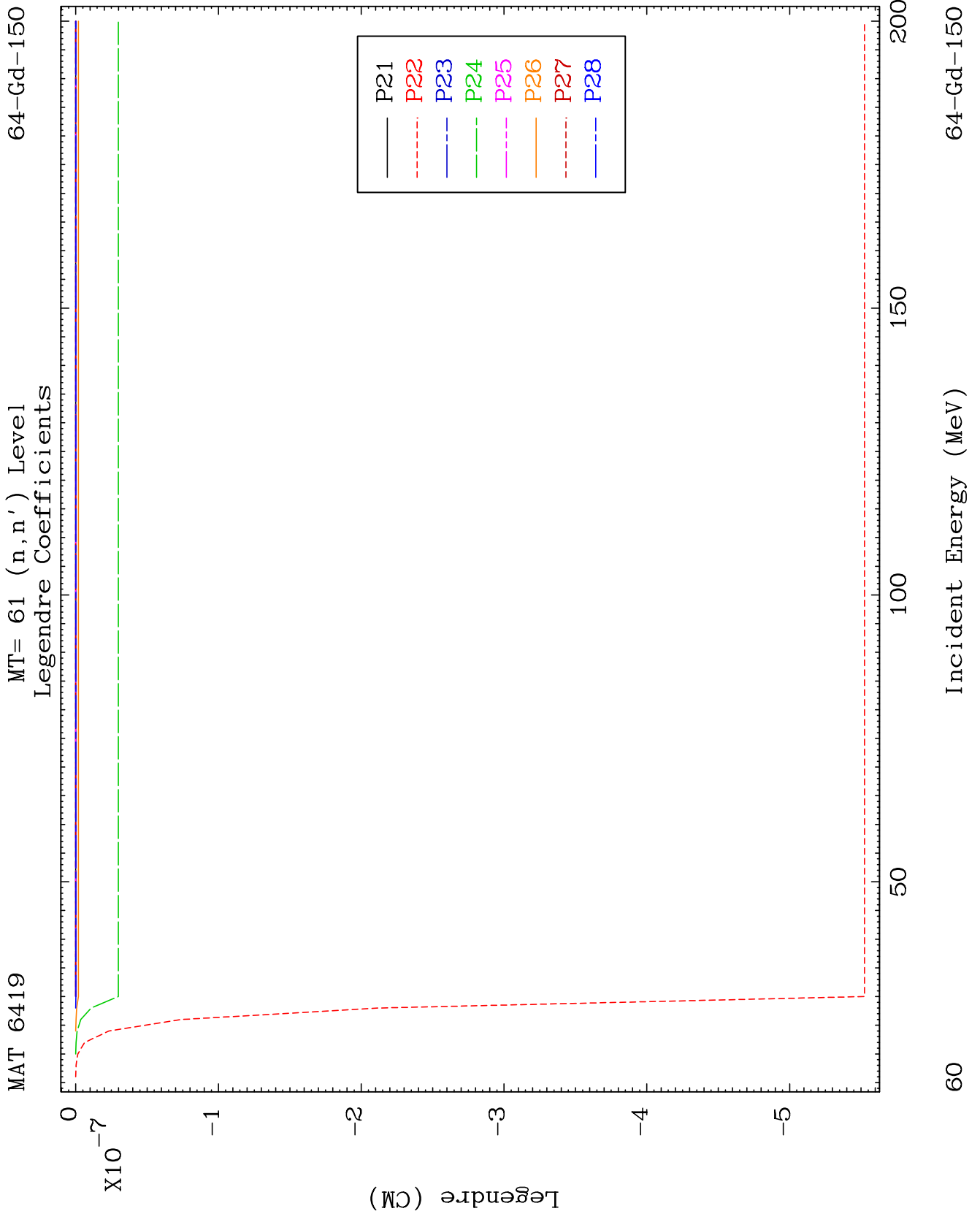
57

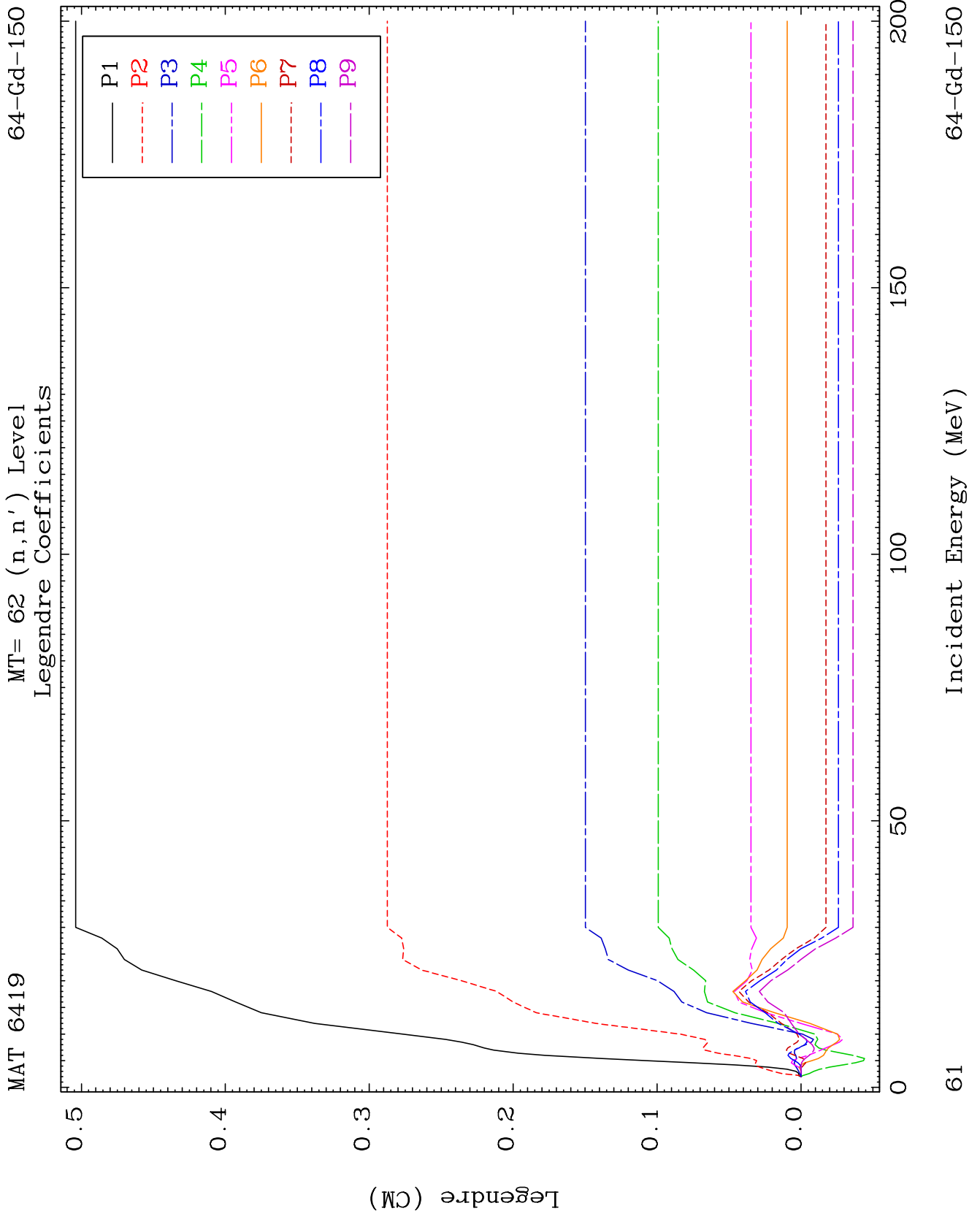
Incident Energy (MeV)

64-Gd-150





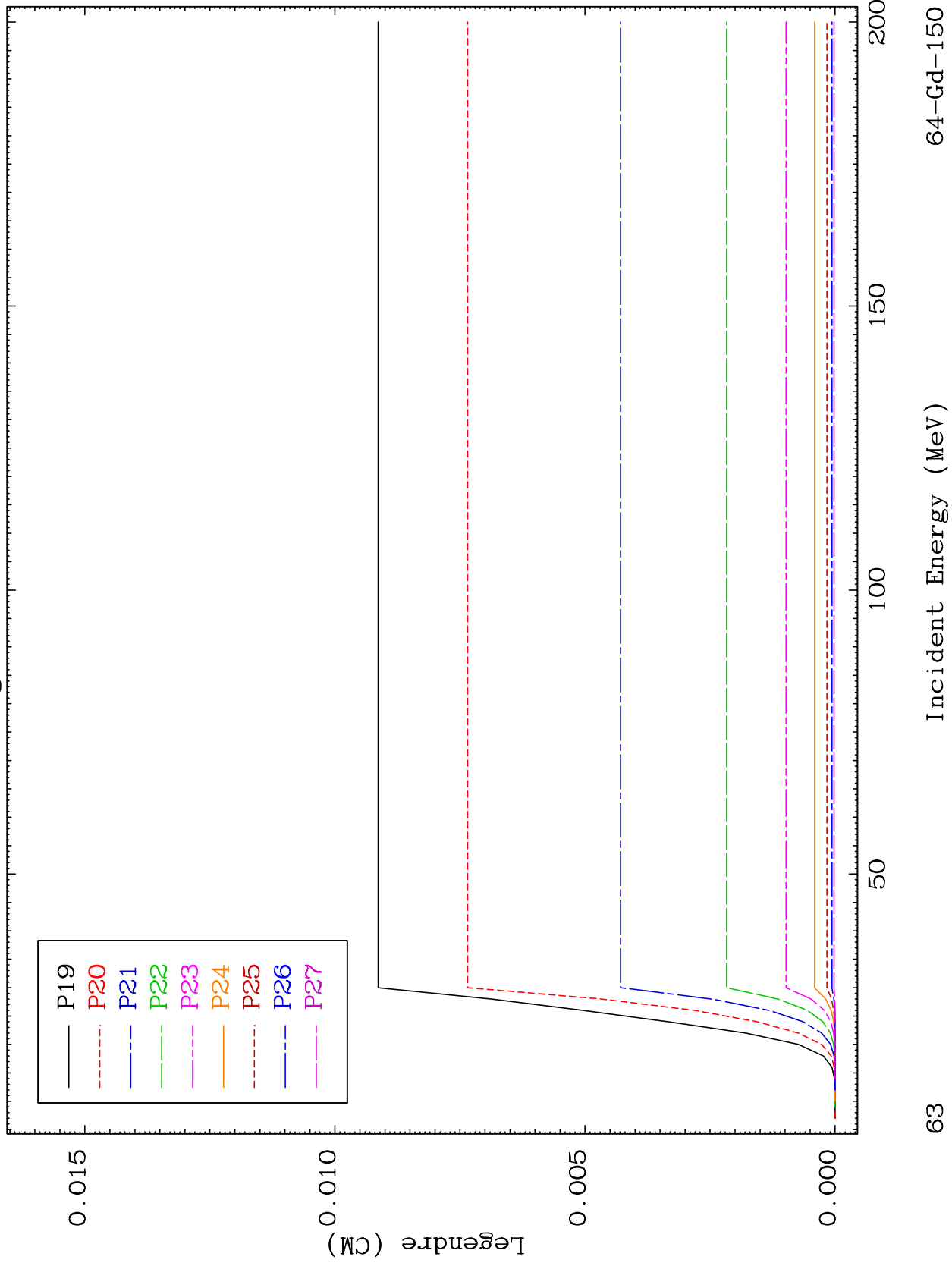




MAT 6419

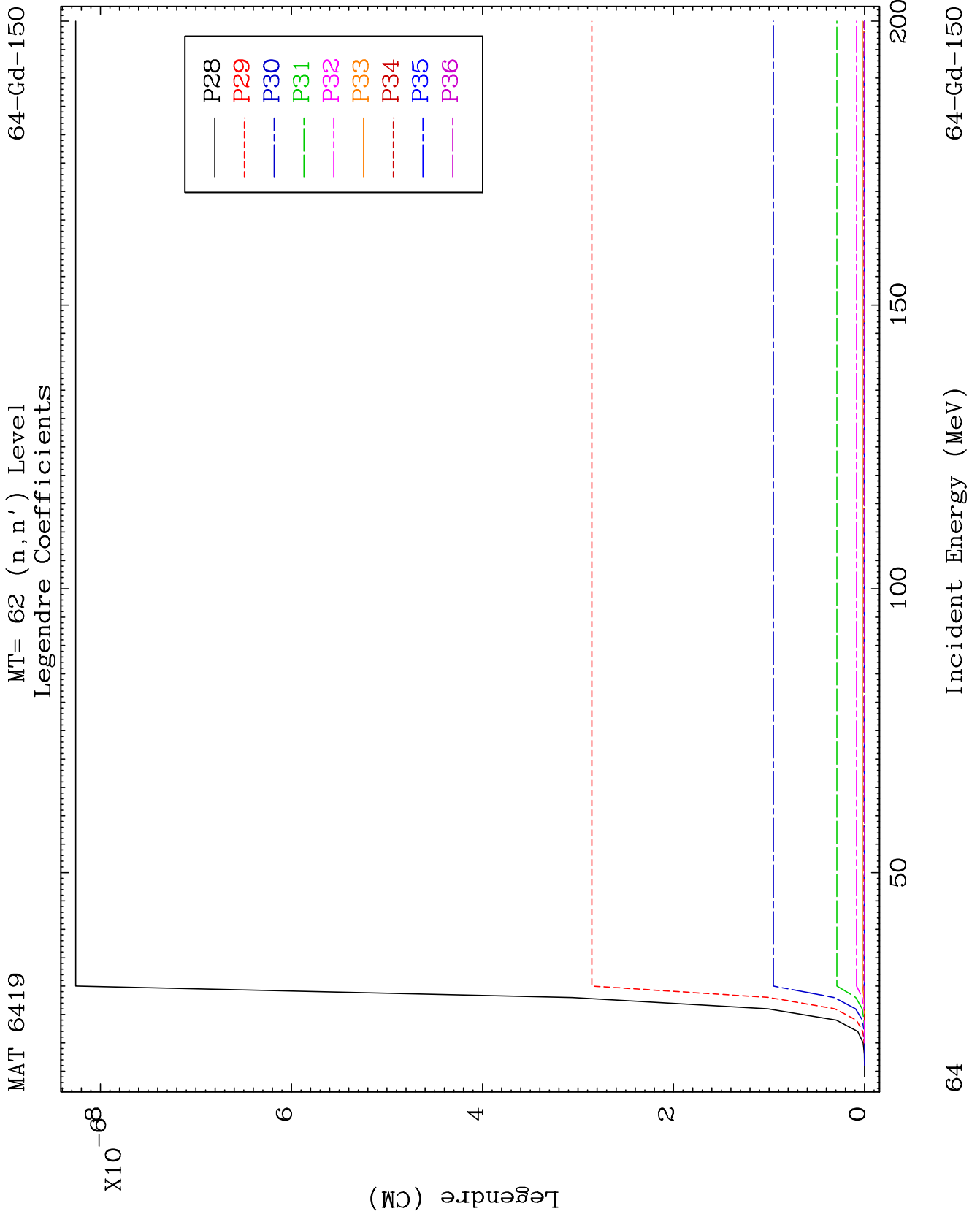
MT= 62 (n,n') Level
Legendre Coefficients

64-Gd-150



63

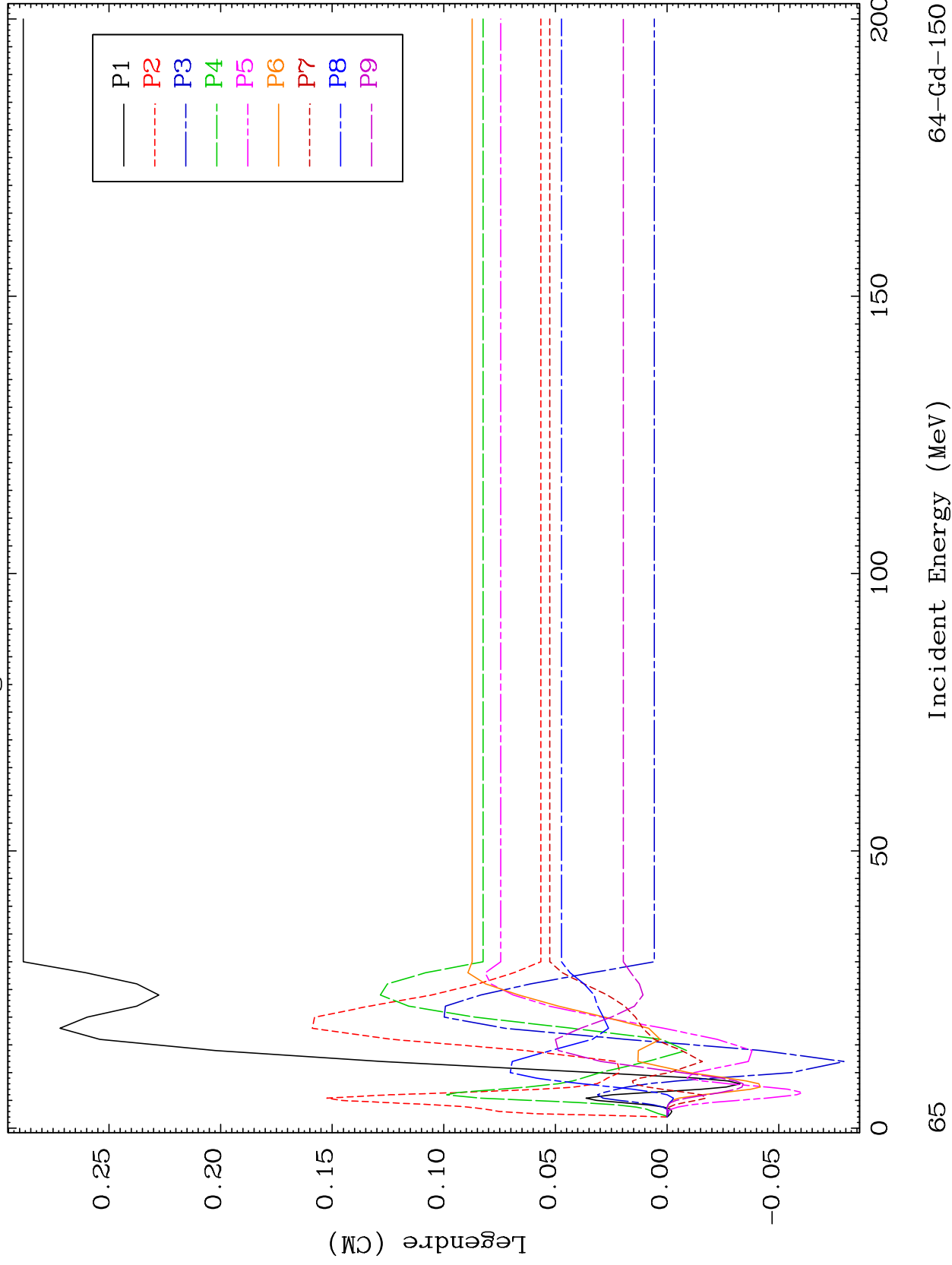
64-Gd-150



MAT 6419

MT= 63 (n,n') Level
Legendre Coefficients

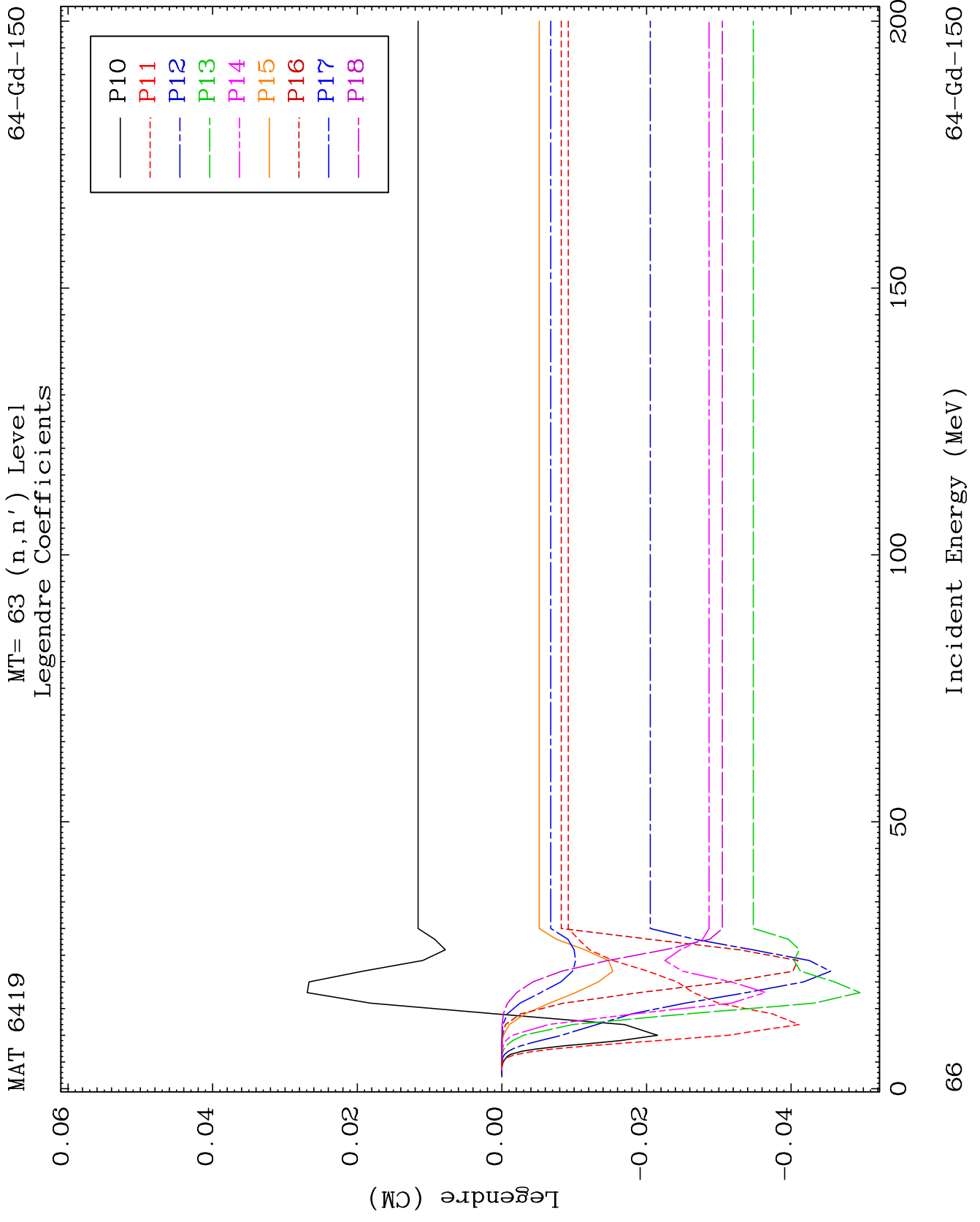
64-Gd-150



64-Gd-150

Incident Energy (MeV)

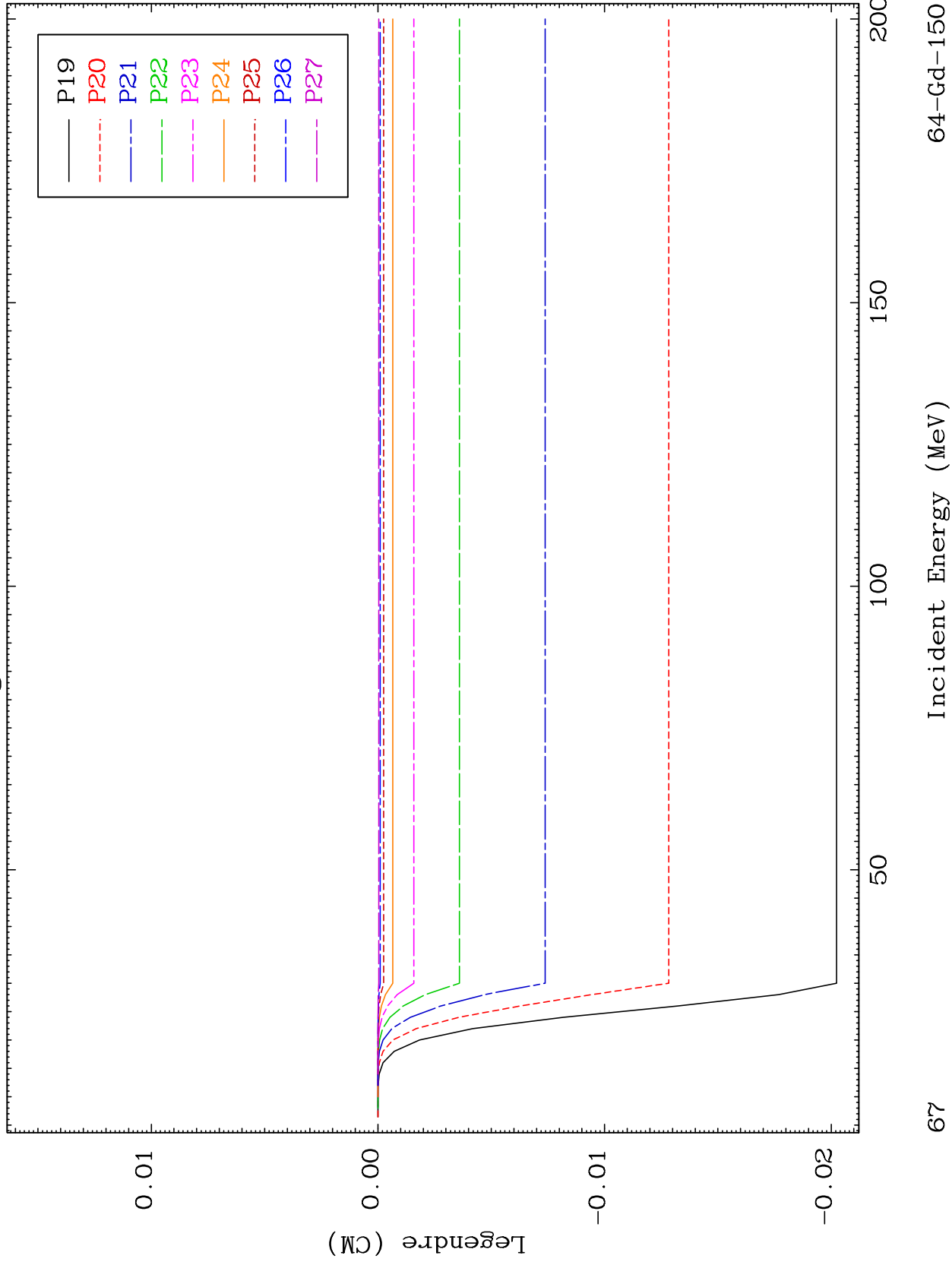
65



MAT 6419

MT= 63 (n,n') Level
Legendre Coefficients

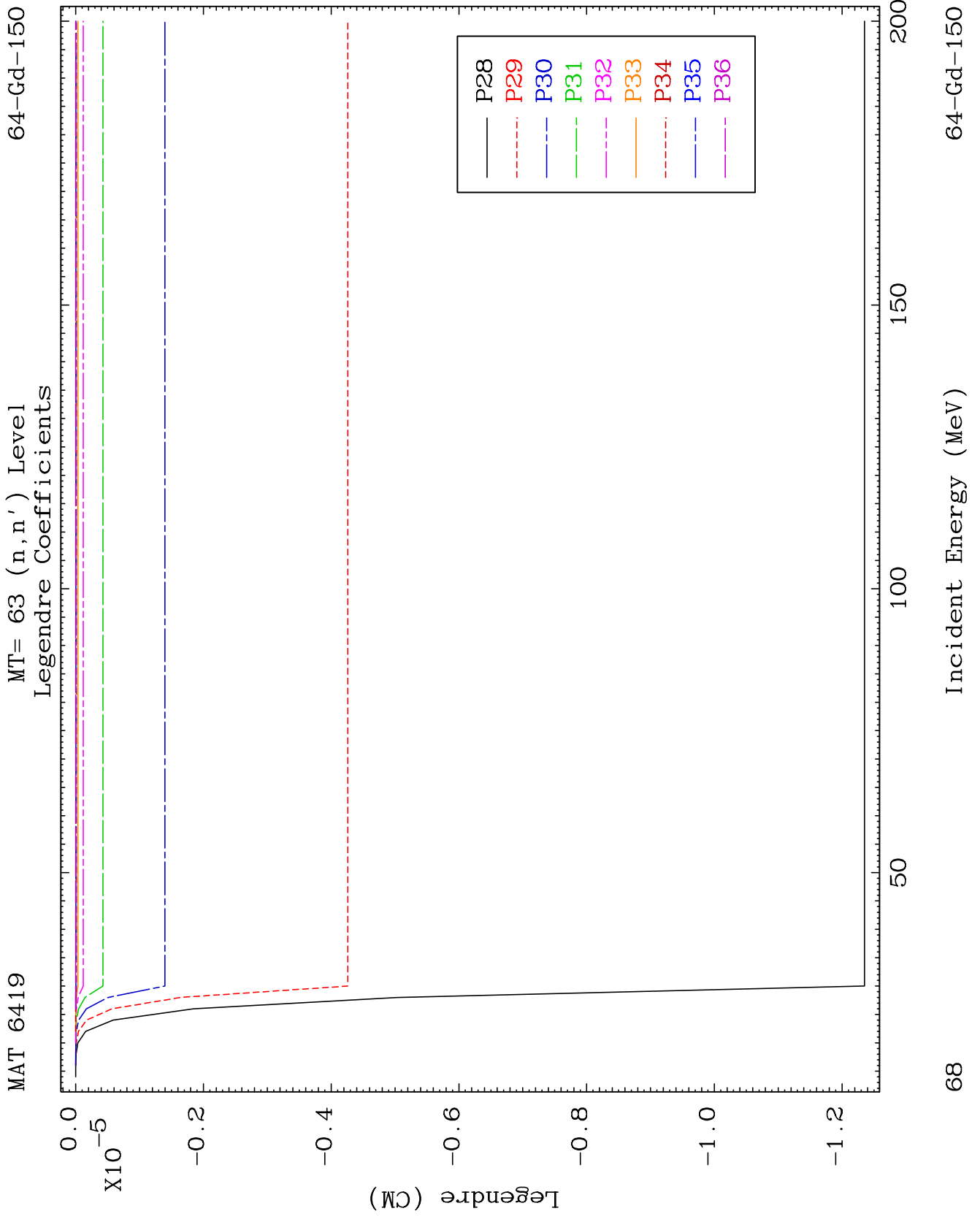
64-Gd-150

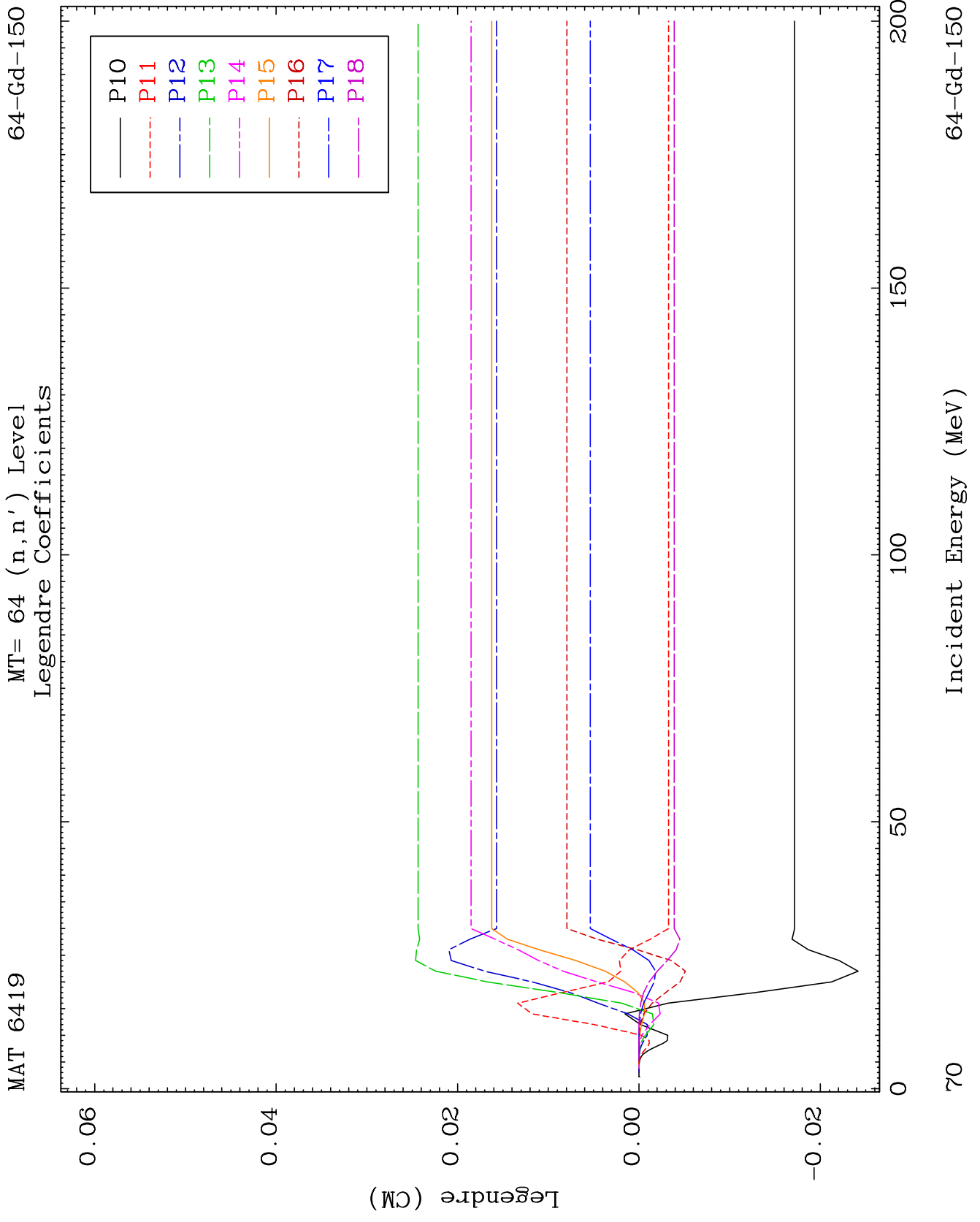


67

Incident Energy (MeV)

64-Gd-150

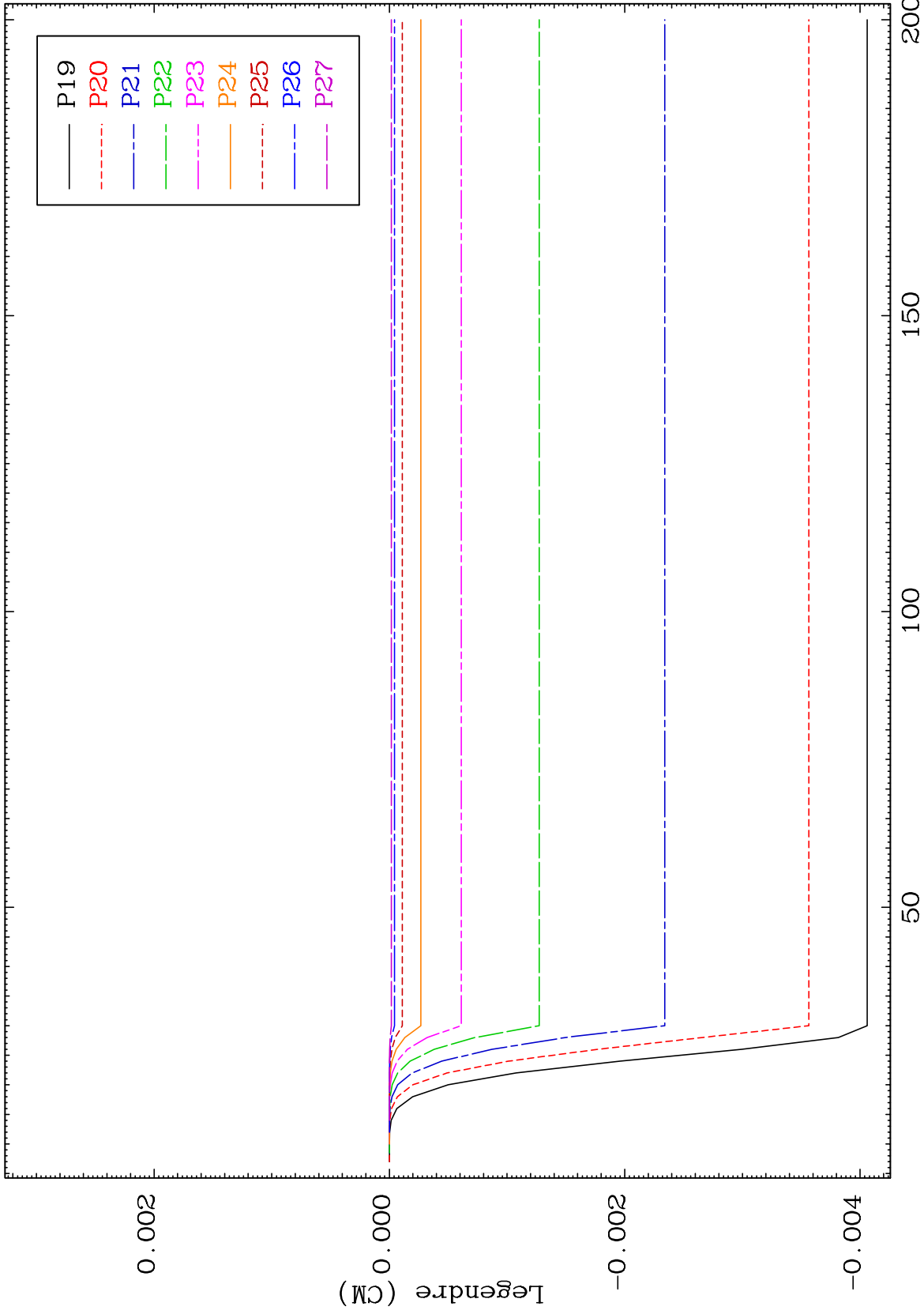




MAT 6419

MT= 64 (n,n') Level
Legendre Coefficients

64-Gd-150



71

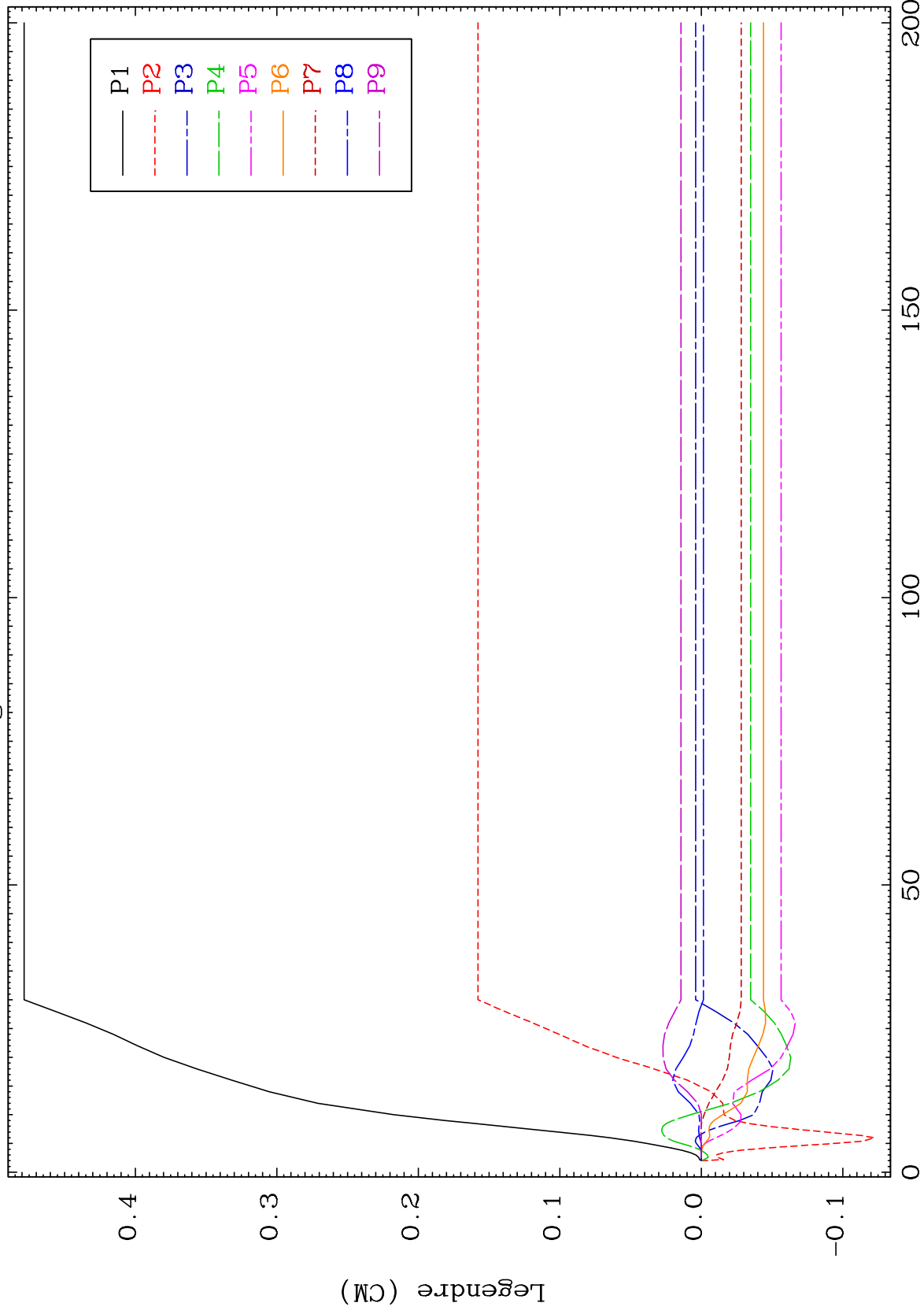
Incident Energy (MeV)

64-Gd-150

MAT 6419

MT= 65 (n,n') Level
Legendre Coefficients

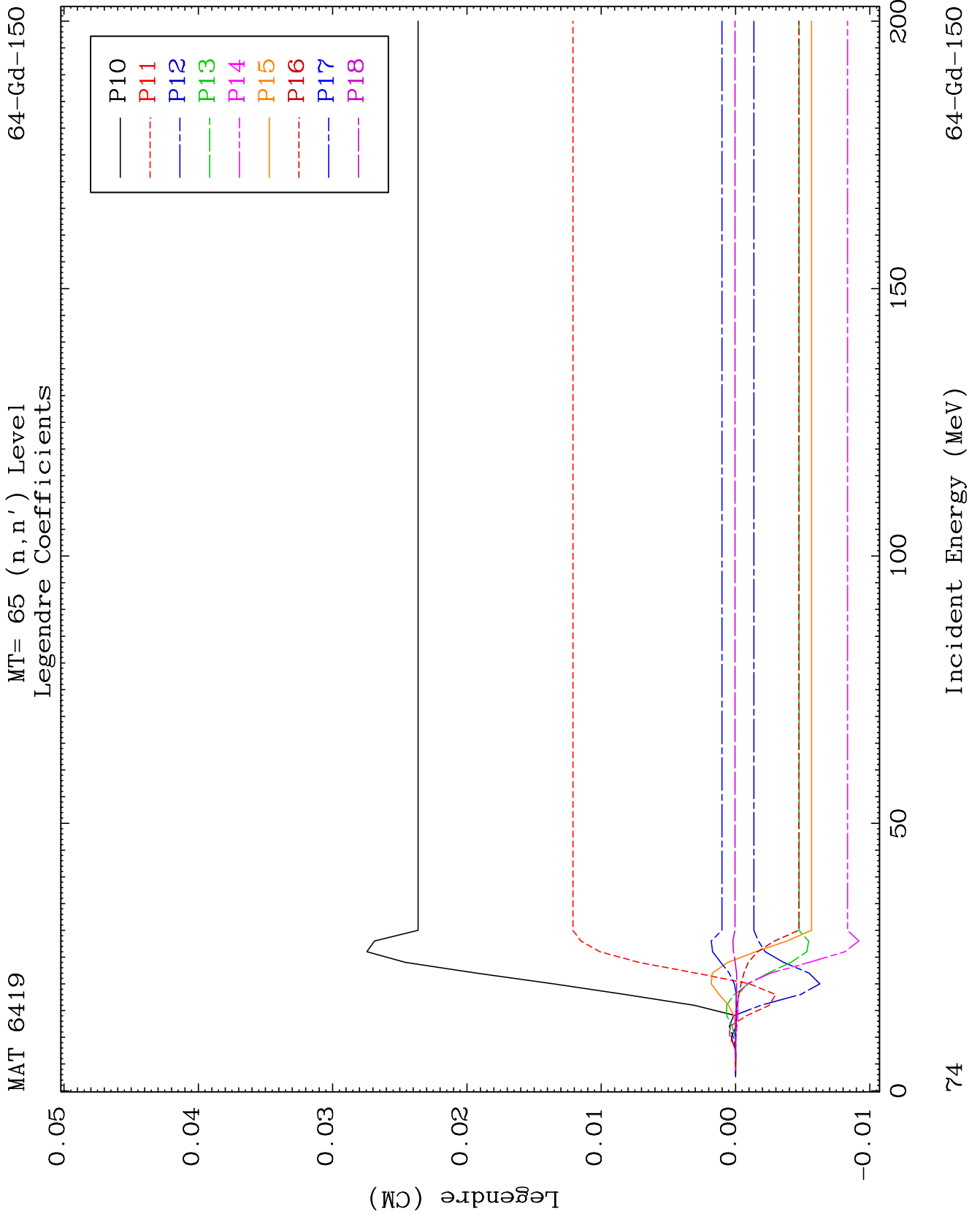
64-Gd-150



73

Incident Energy (MeV)

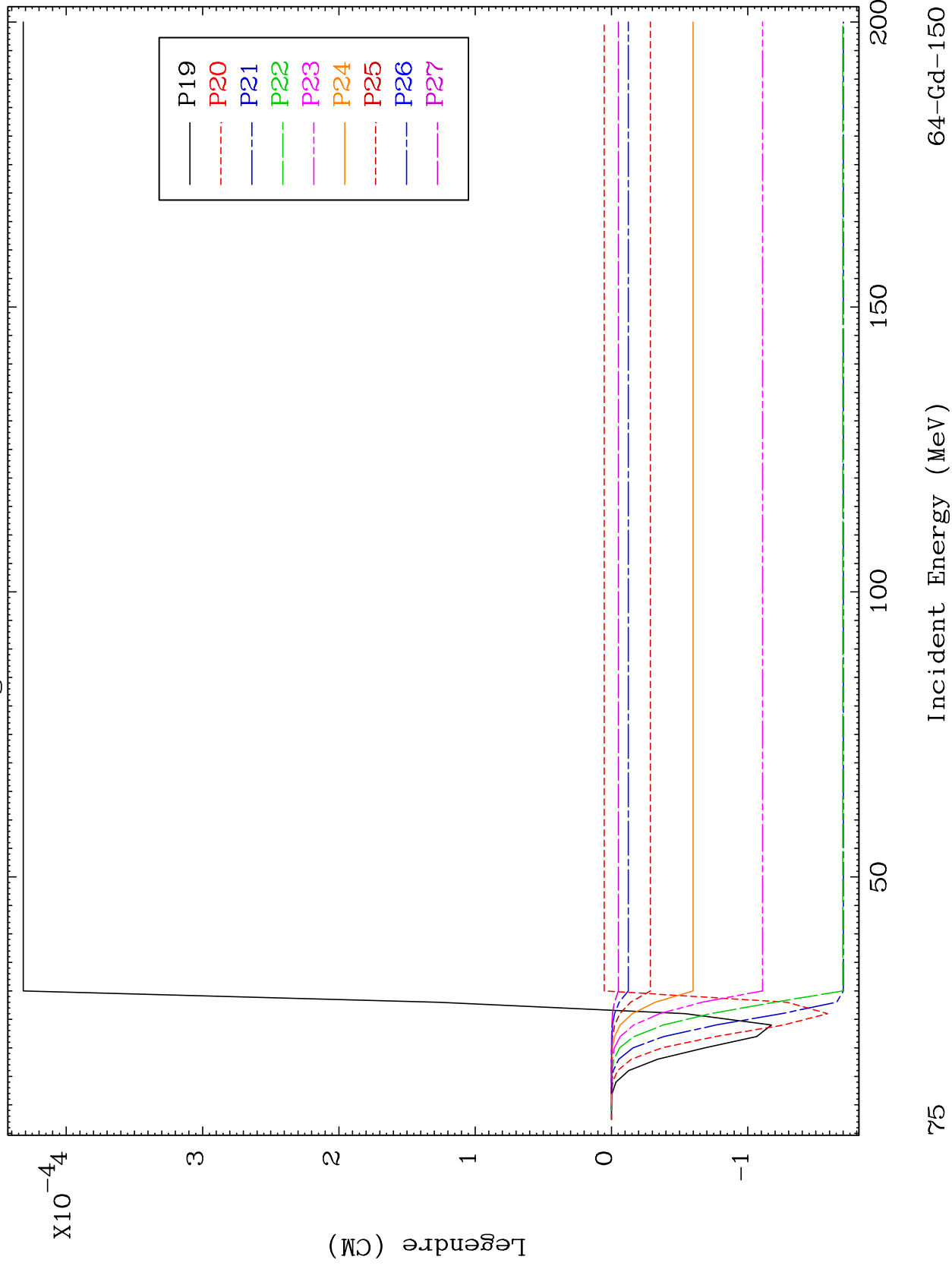
64-Gd-150

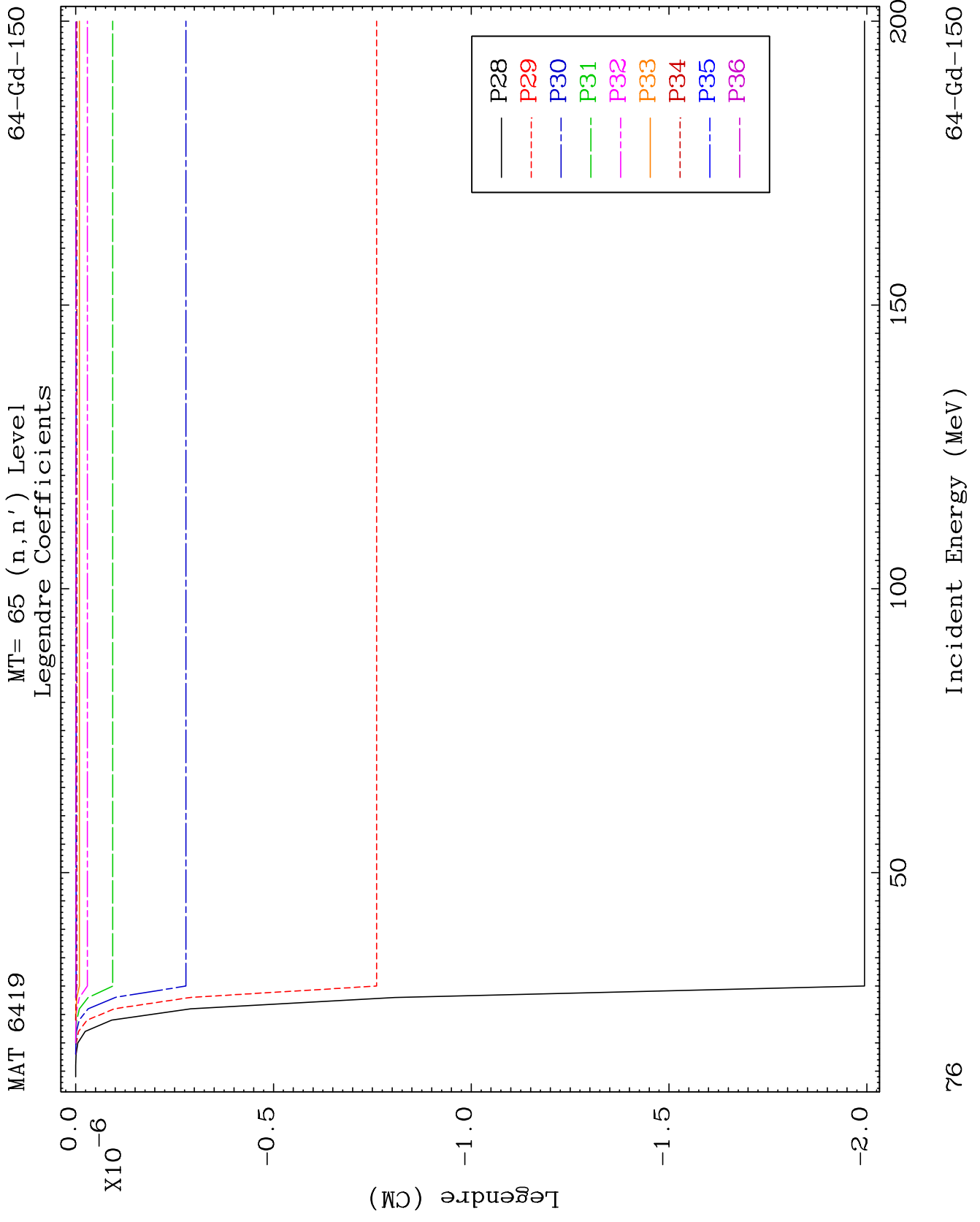


MAT 6419

MT= 65 (n,n') Level
Legendre Coefficients

64-Gd-150

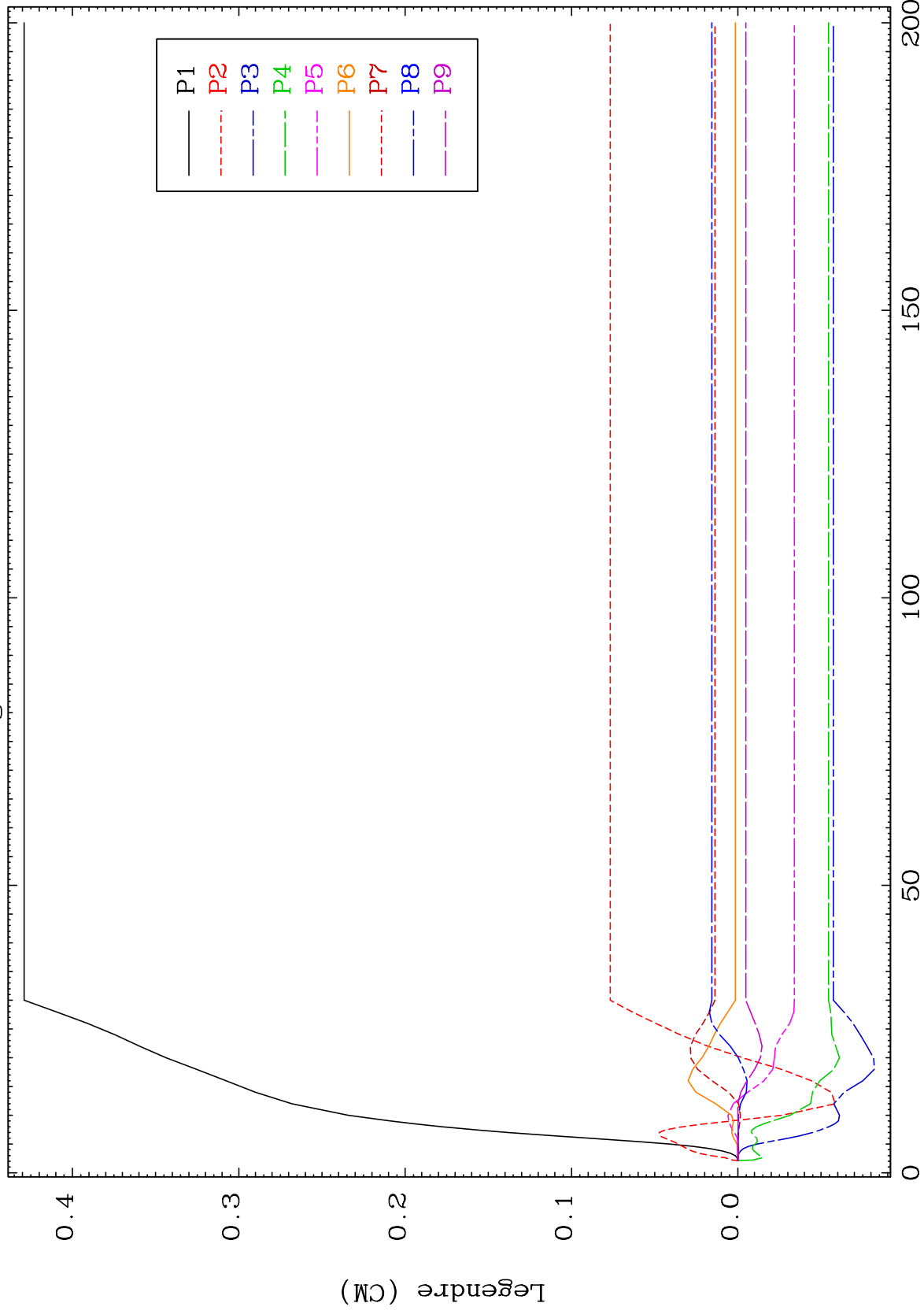




MAT 6419

MT= 66 (n,n') Level
Legendre Coefficients

64-Gd-150



77

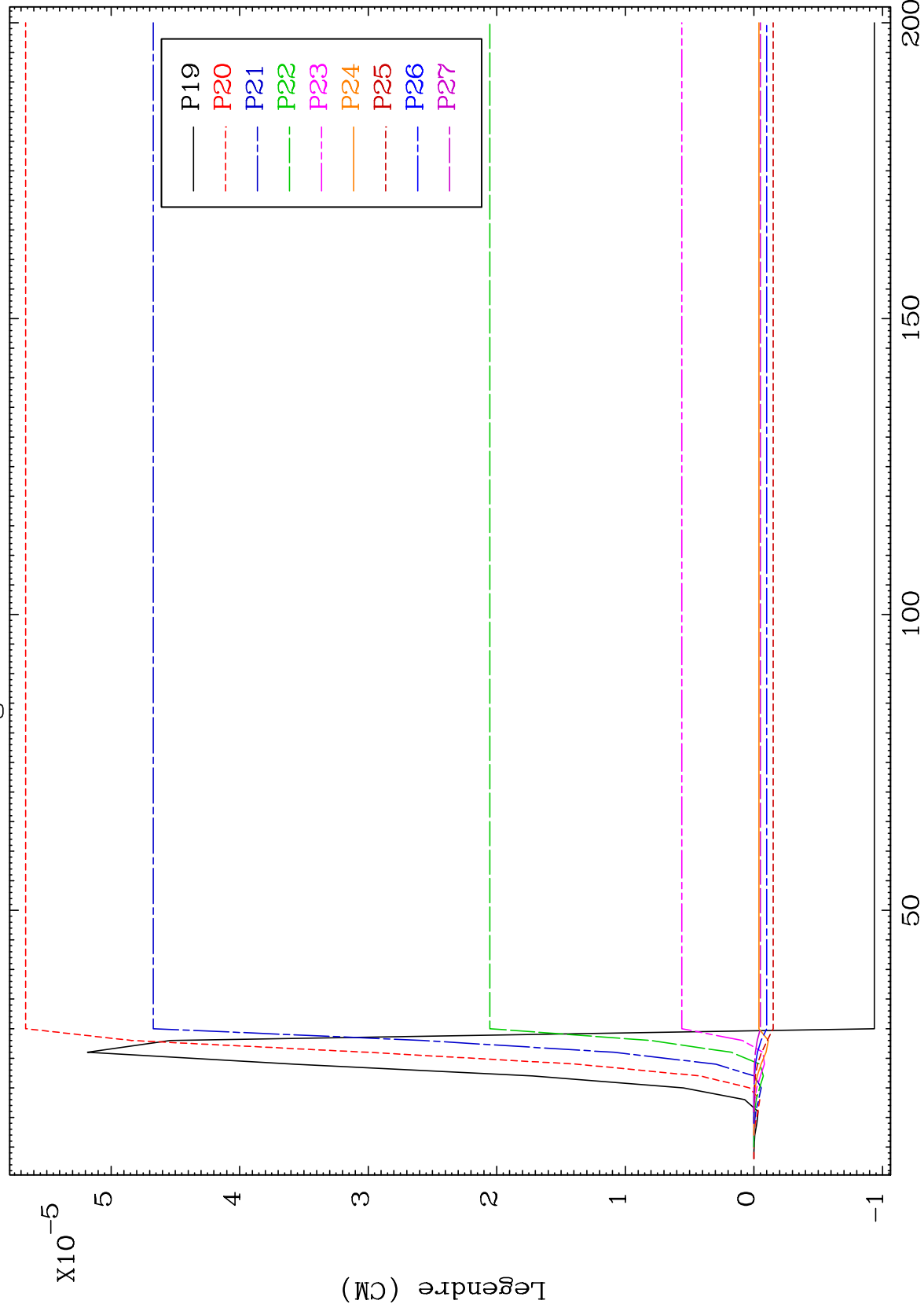
Incident Energy (MeV)

64-Gd-150

MAT 6419

MT= 66 (n,n') Level
Legendre Coefficients

64-Gd-150



79

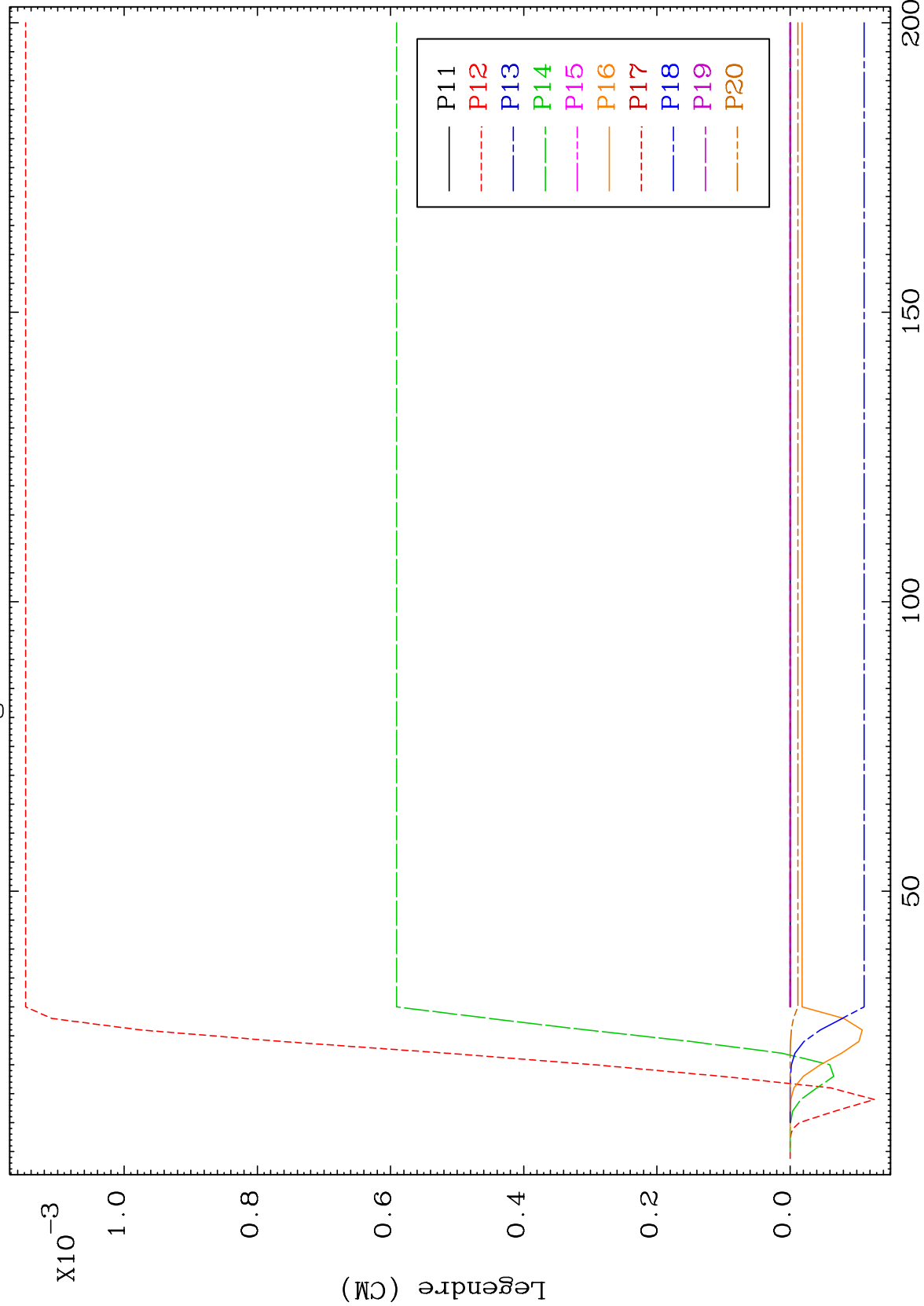
Incident Energy (MeV)

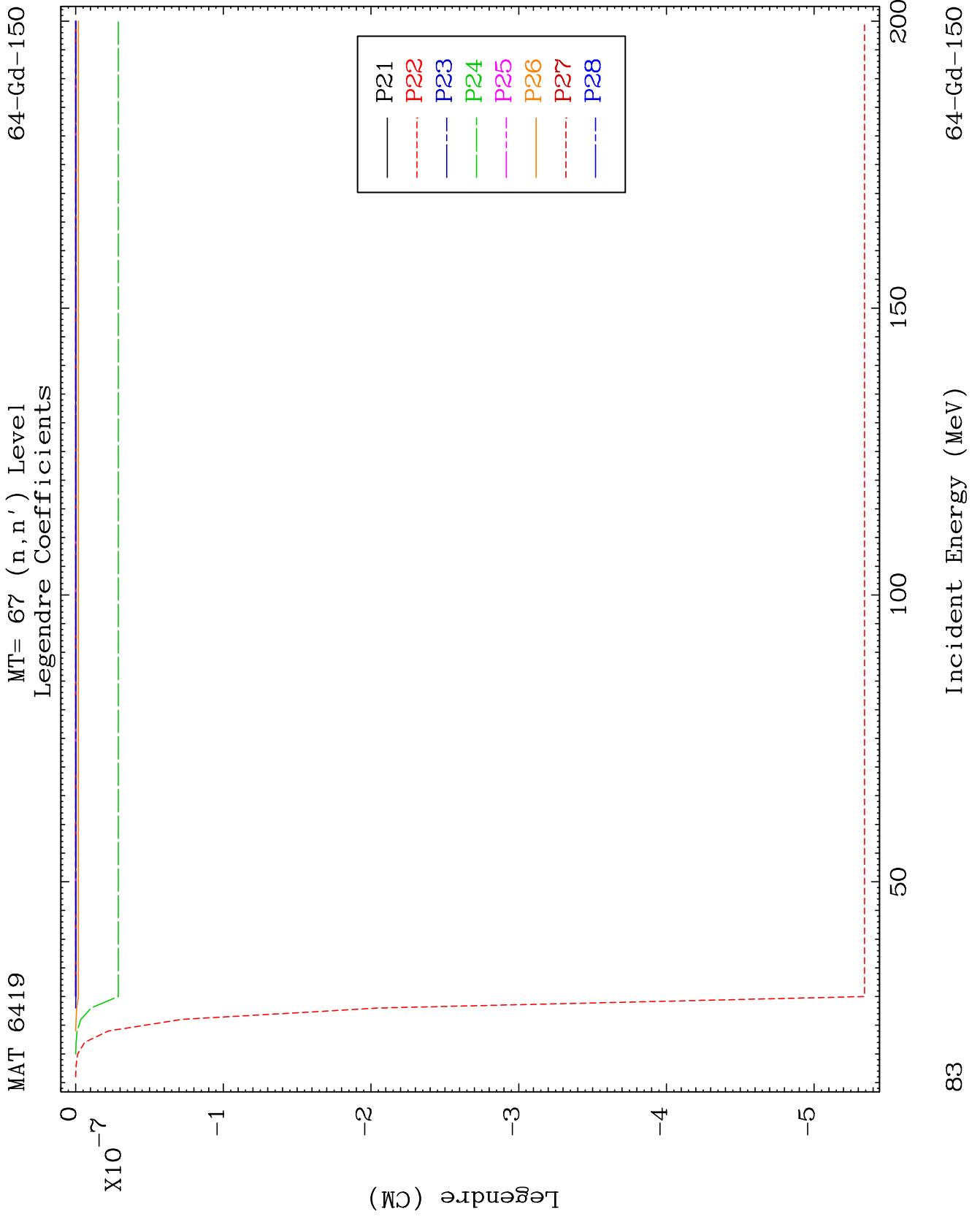
64-Gd-150

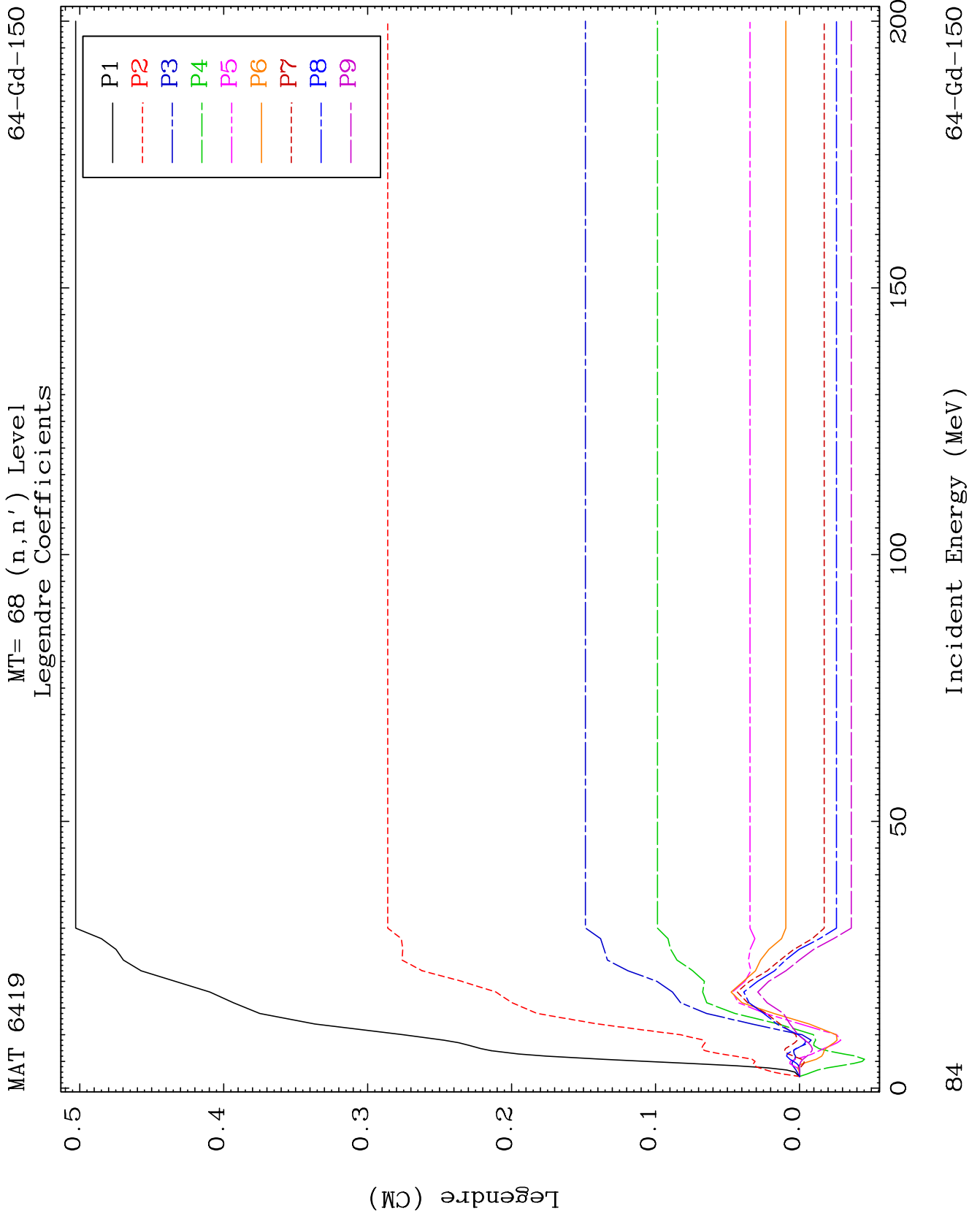
MAT 6419

MT= 67 (n,n') Level
Legendre Coefficients

64-Gd-150



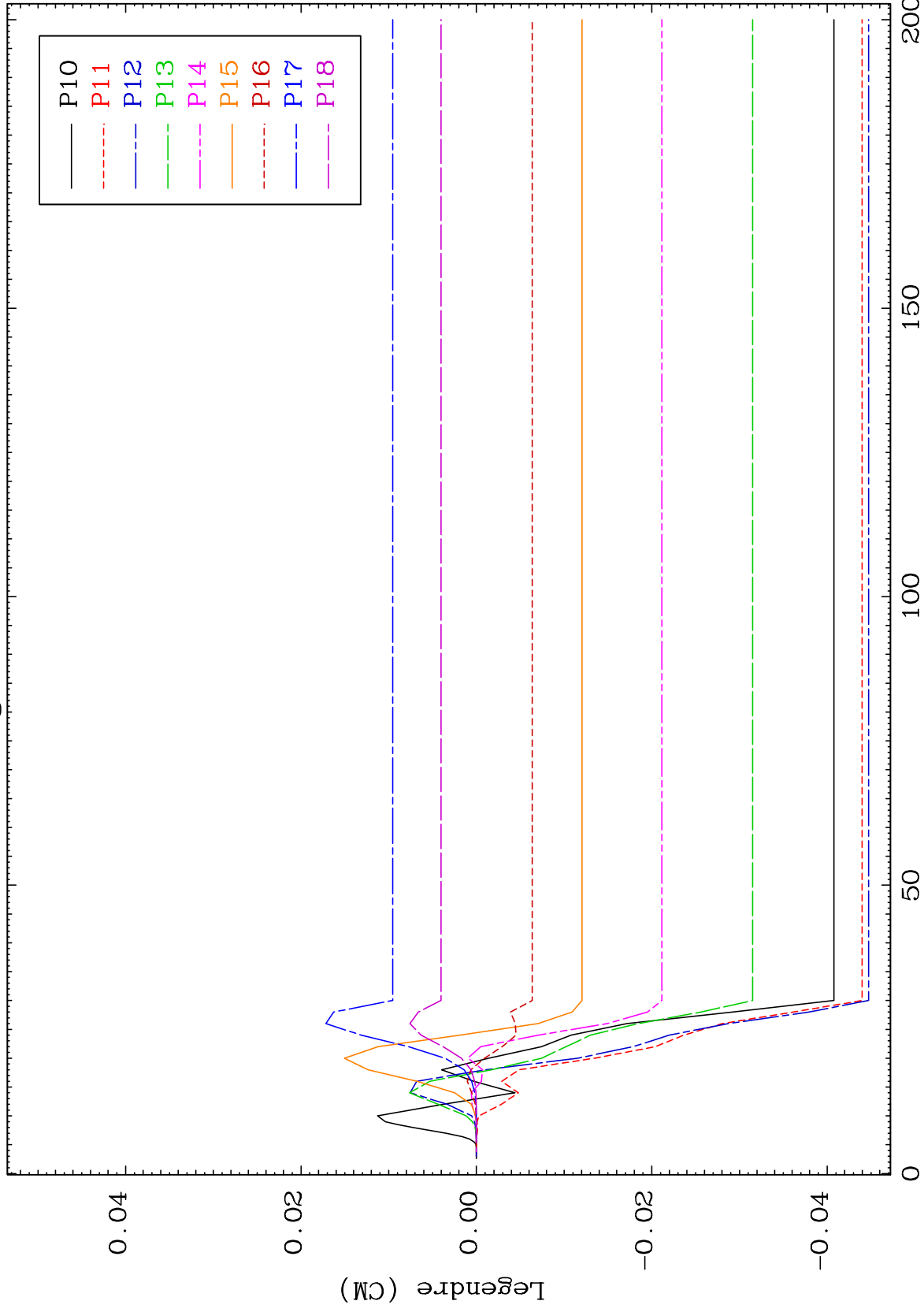




MAT 6419

MT= 68 (n,n') Level
Legendre Coefficients

64-Gd-150



85

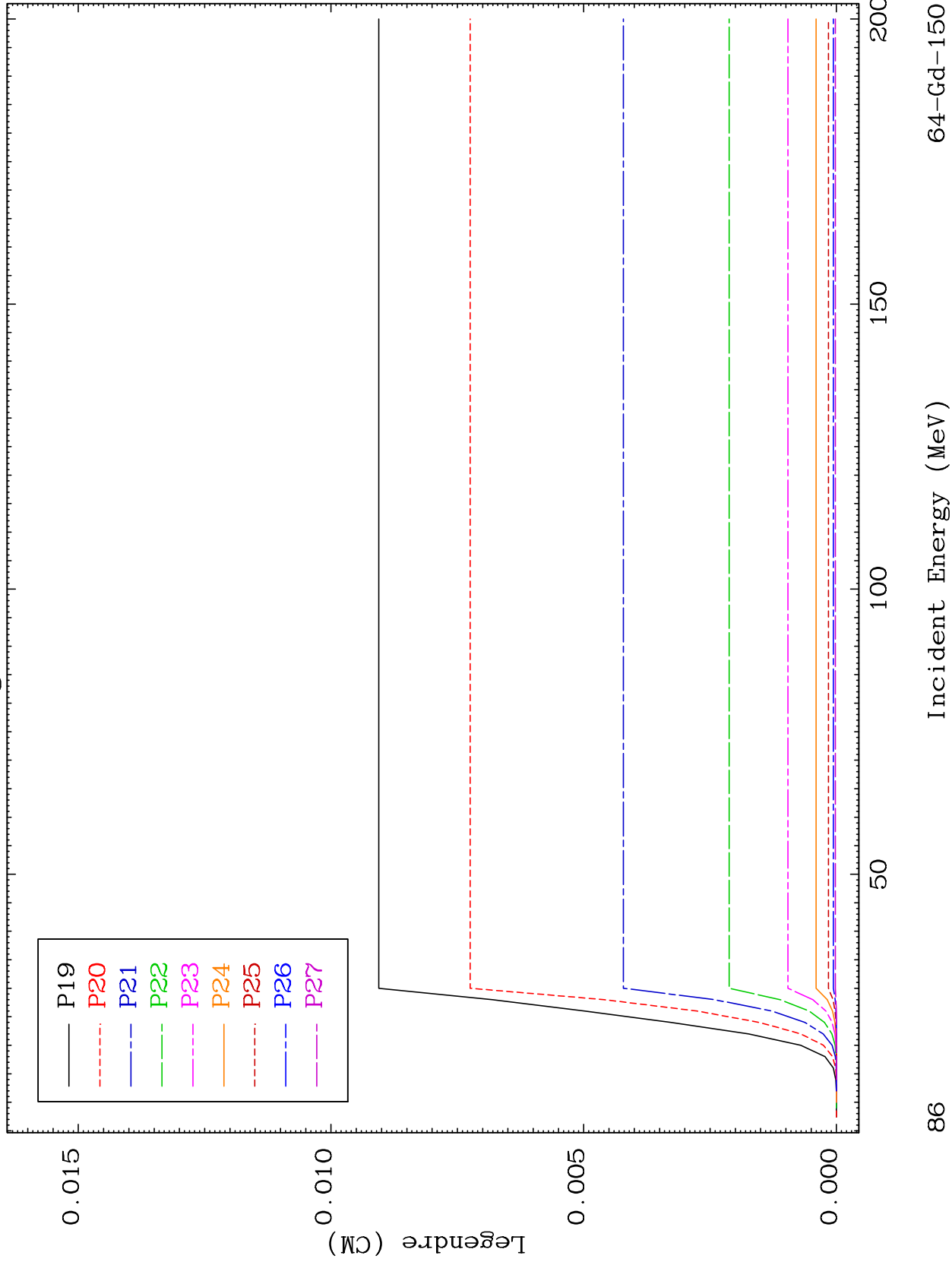
Incident Energy (MeV)

64-Gd-150

MAT 6419

MT= 68 (n,n') Level
Legendre Coefficients

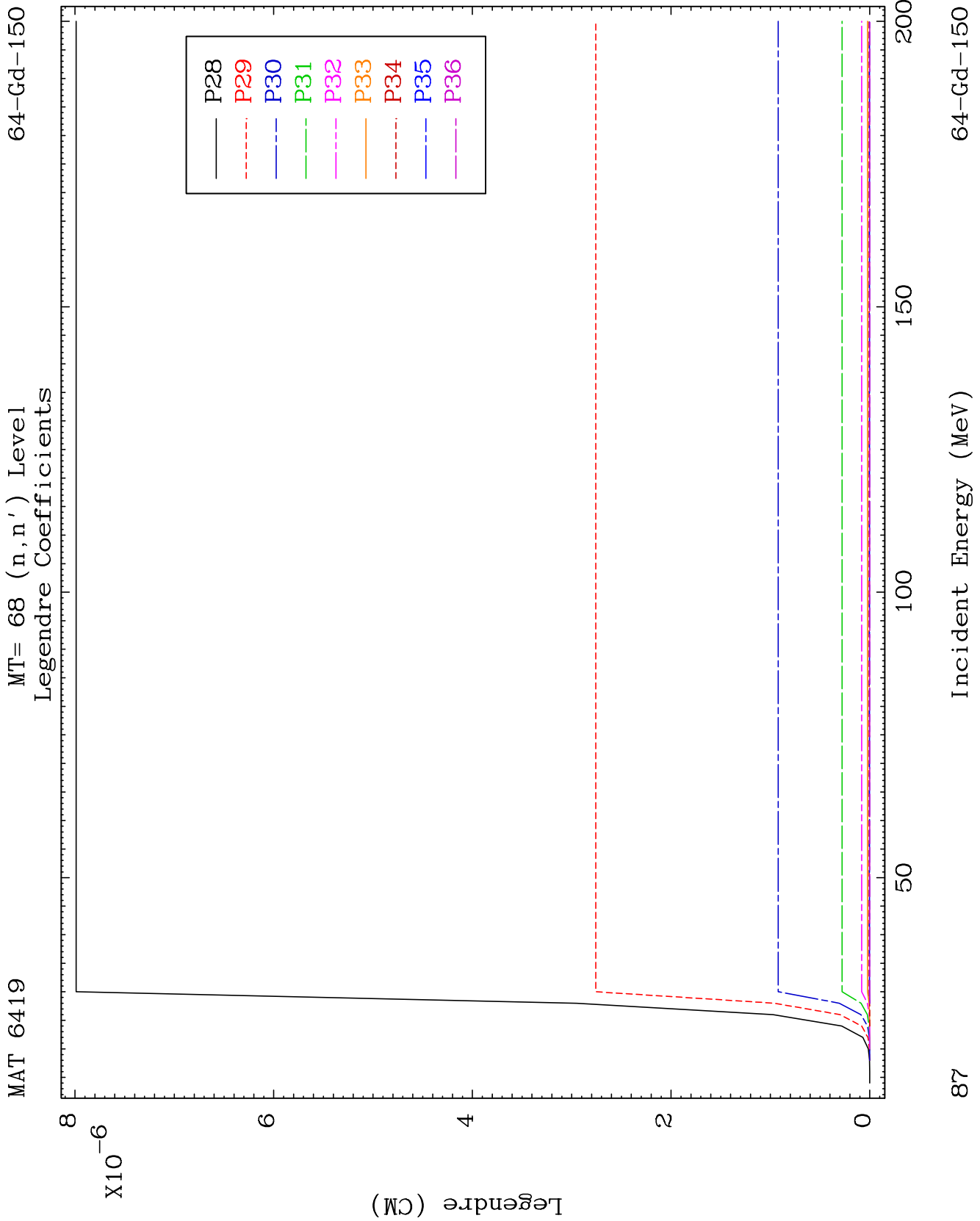
64-Gd-150



86

Incident Energy (MeV)

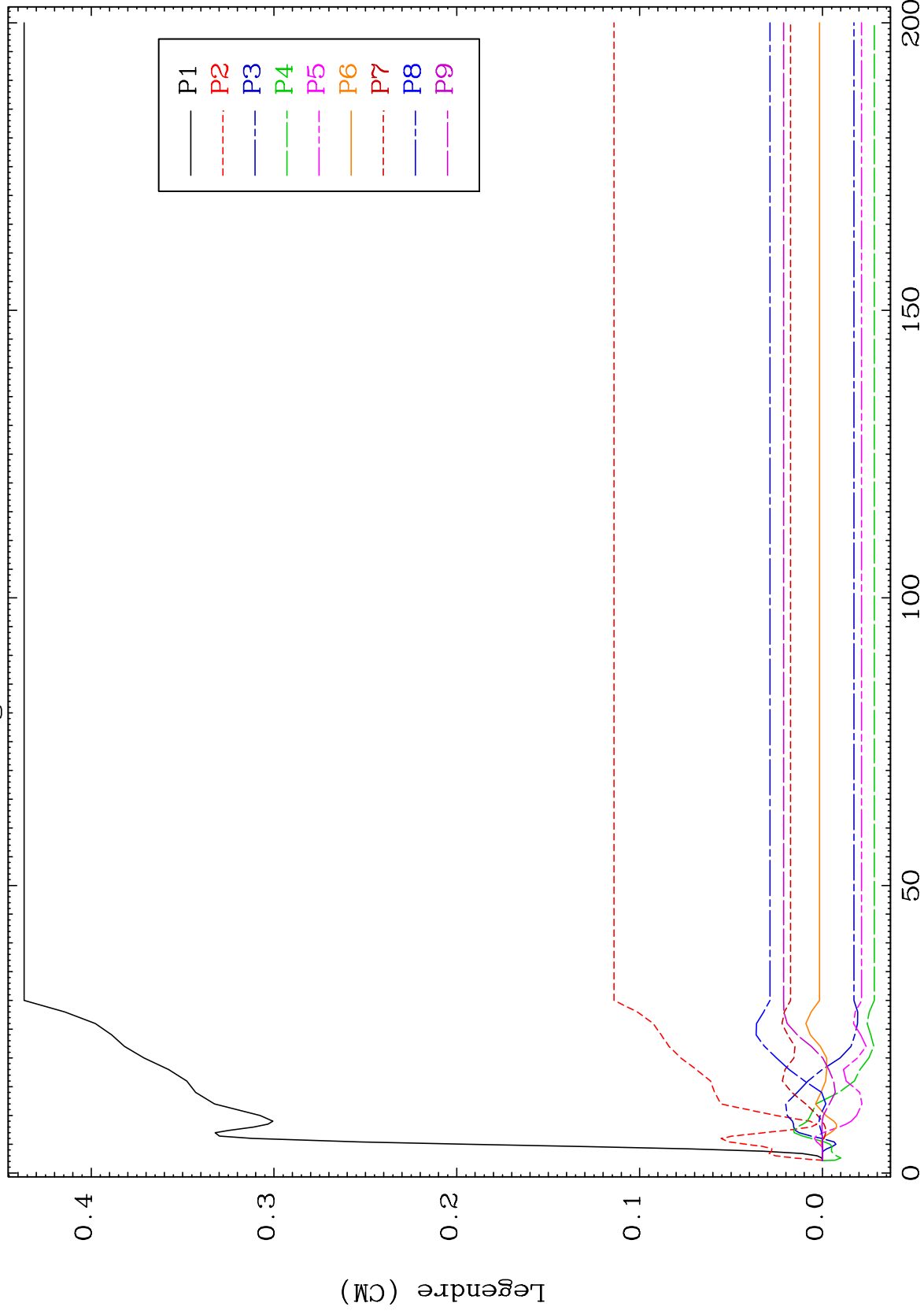
64-Gd-150



MAT 6419

MT= 69 (n,n') Level
Legendre Coefficients

64-Gd-150



88

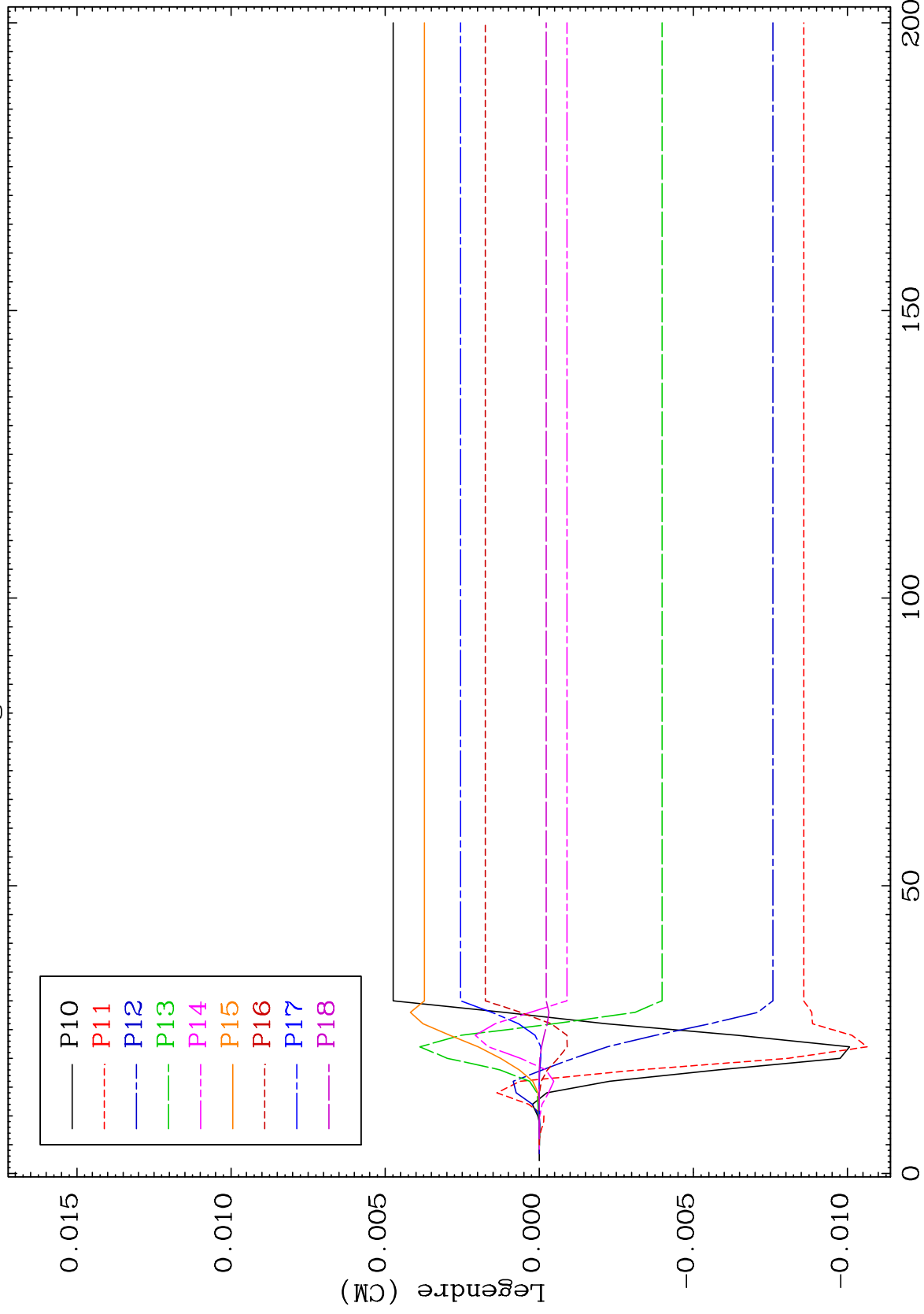
Incident Energy (MeV)

64-Gd-150

MAT 6419

MT= 69 (n,n') Level
Legendre Coefficients

64-Gd-150



89

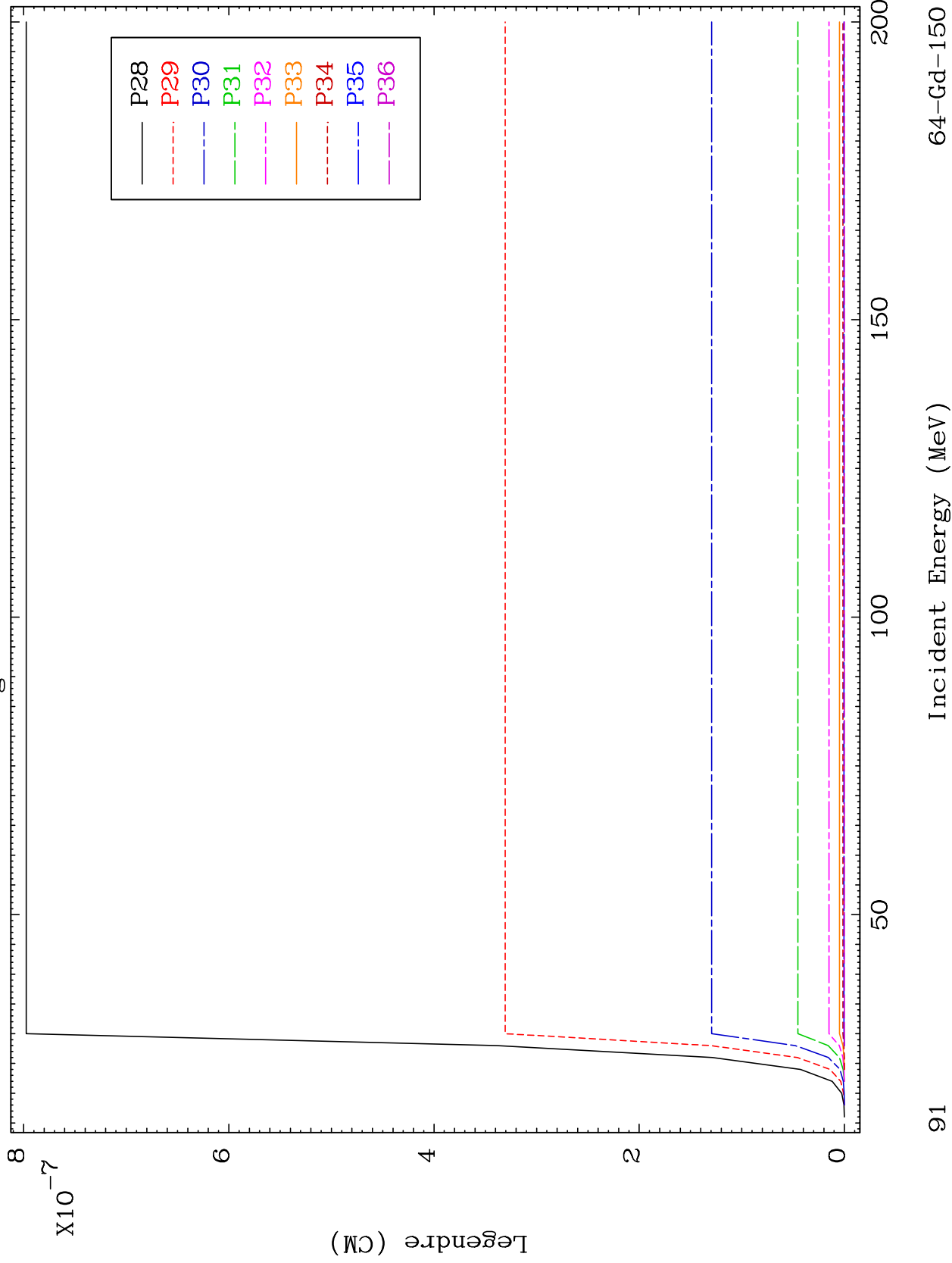
Incident Energy (MeV)

64-Gd-150

MAT 6419

MT= 69 (n,n') Level
Legendre Coefficients

64-Gd-150



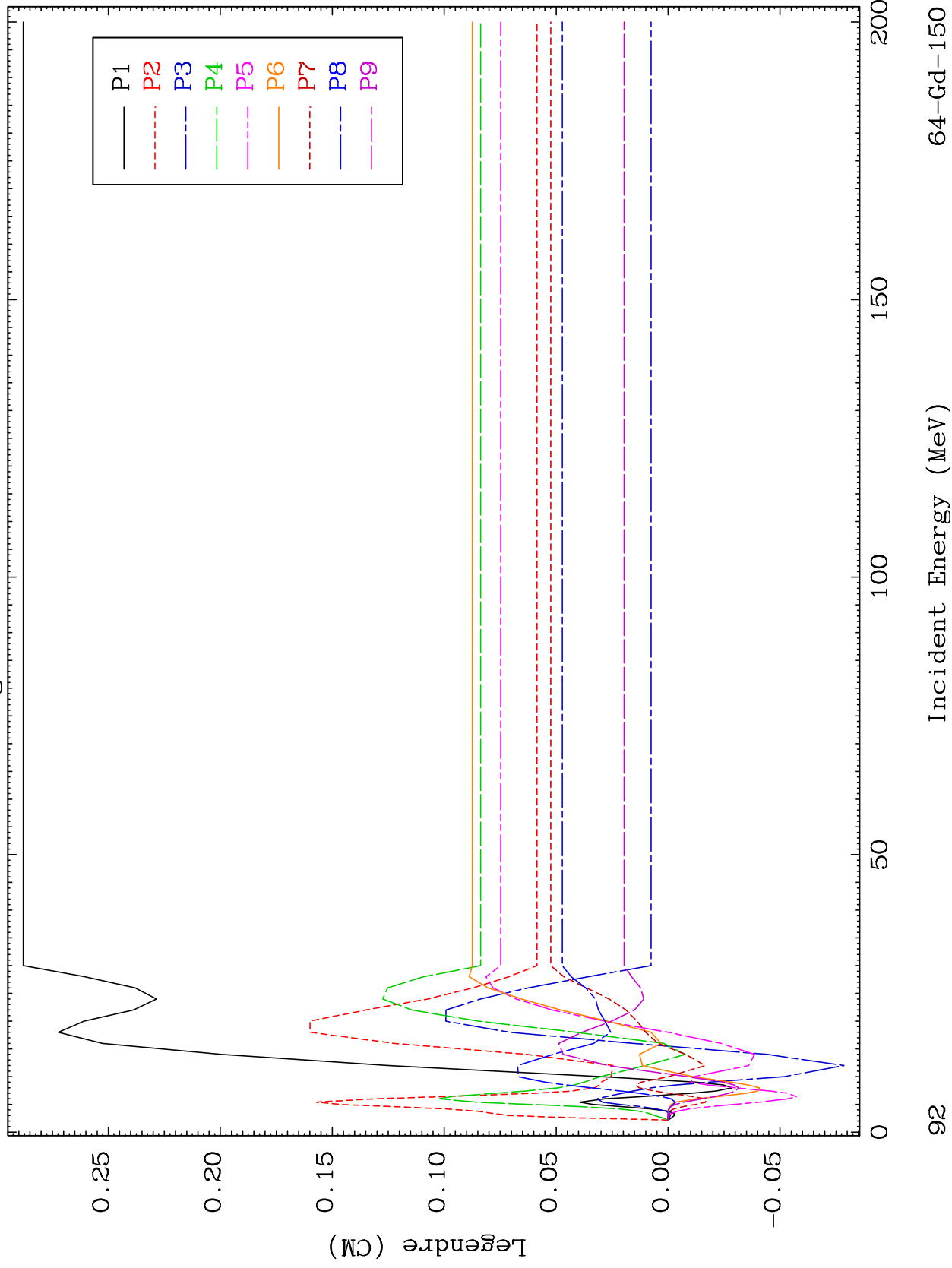
91

64-Gd-150

MAT 6419

MT= 70 (n,n') Level
Legendre Coefficients

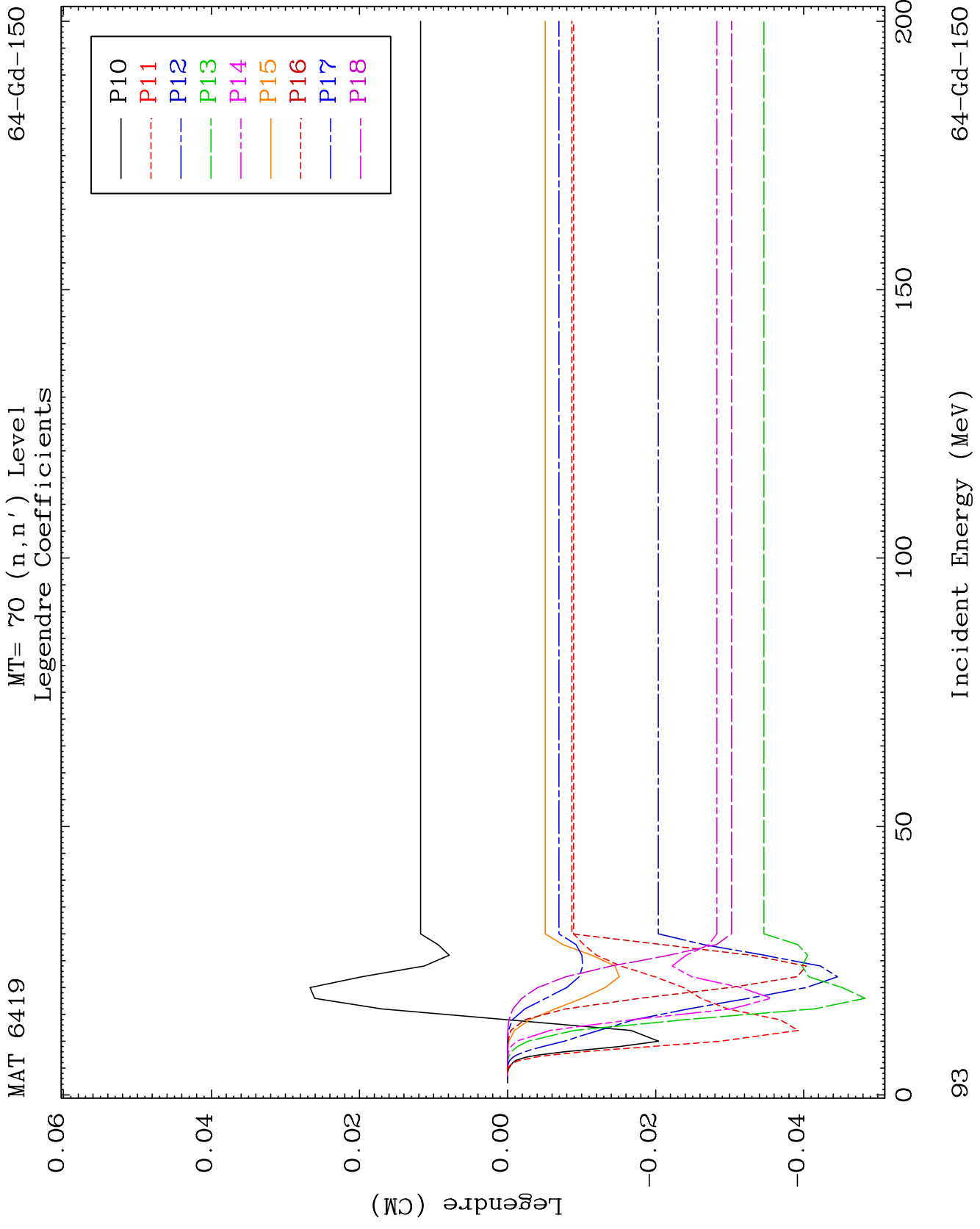
64-Gd-150



64-Gd-150

Incident Energy (MeV)

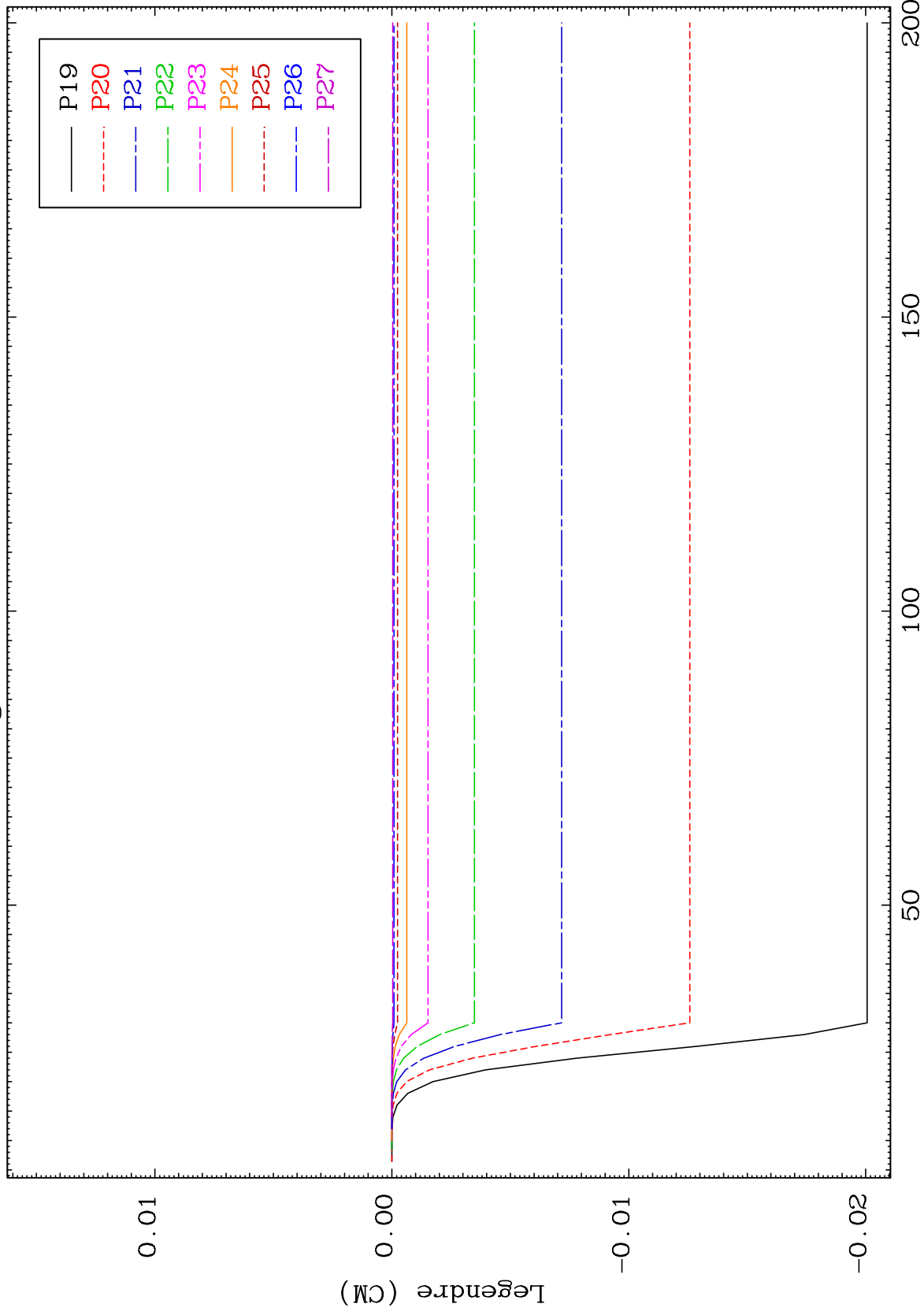
92



MAT 6419

MT= 70 (n,n') Level
Legendre Coefficients

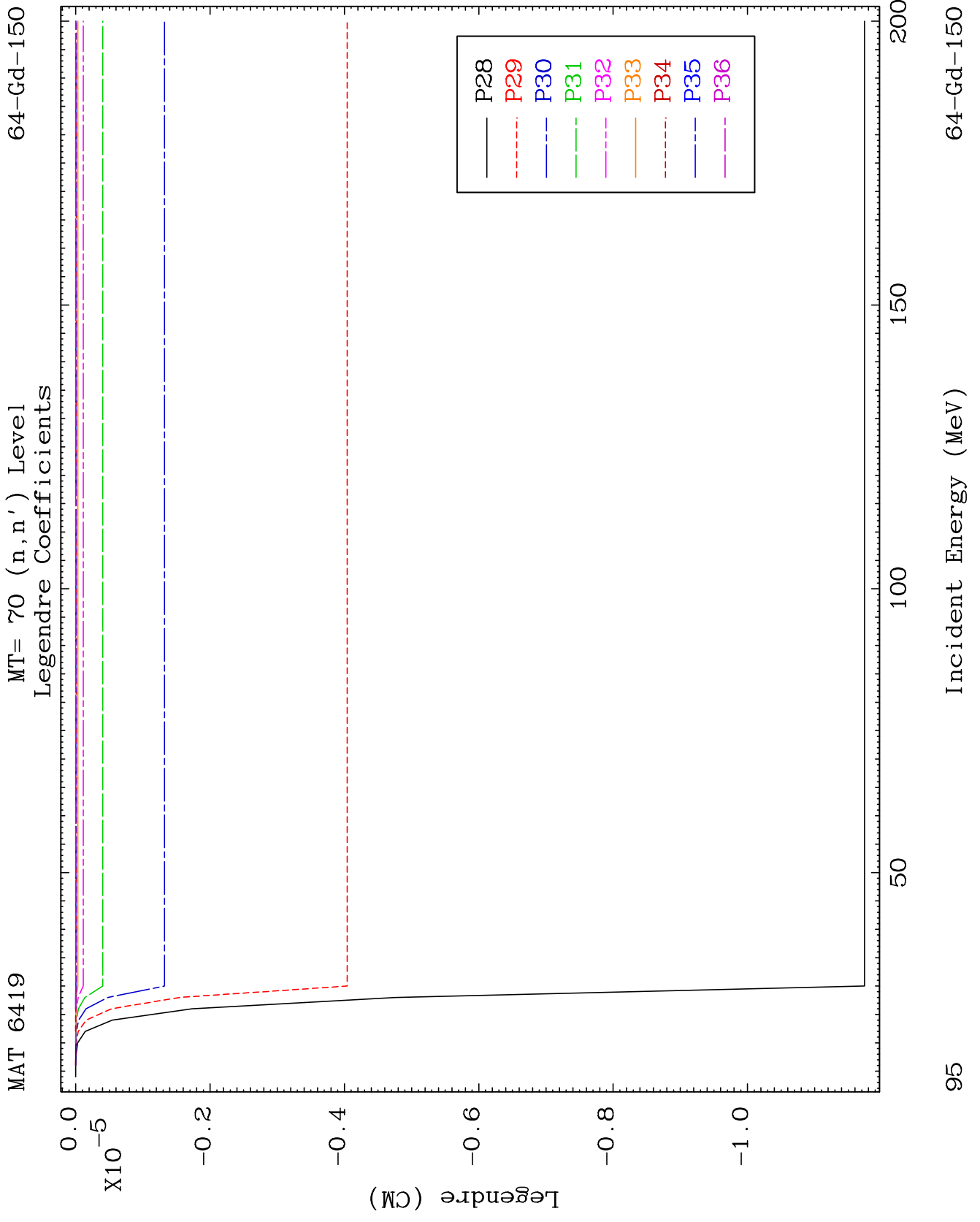
64-Gd-150

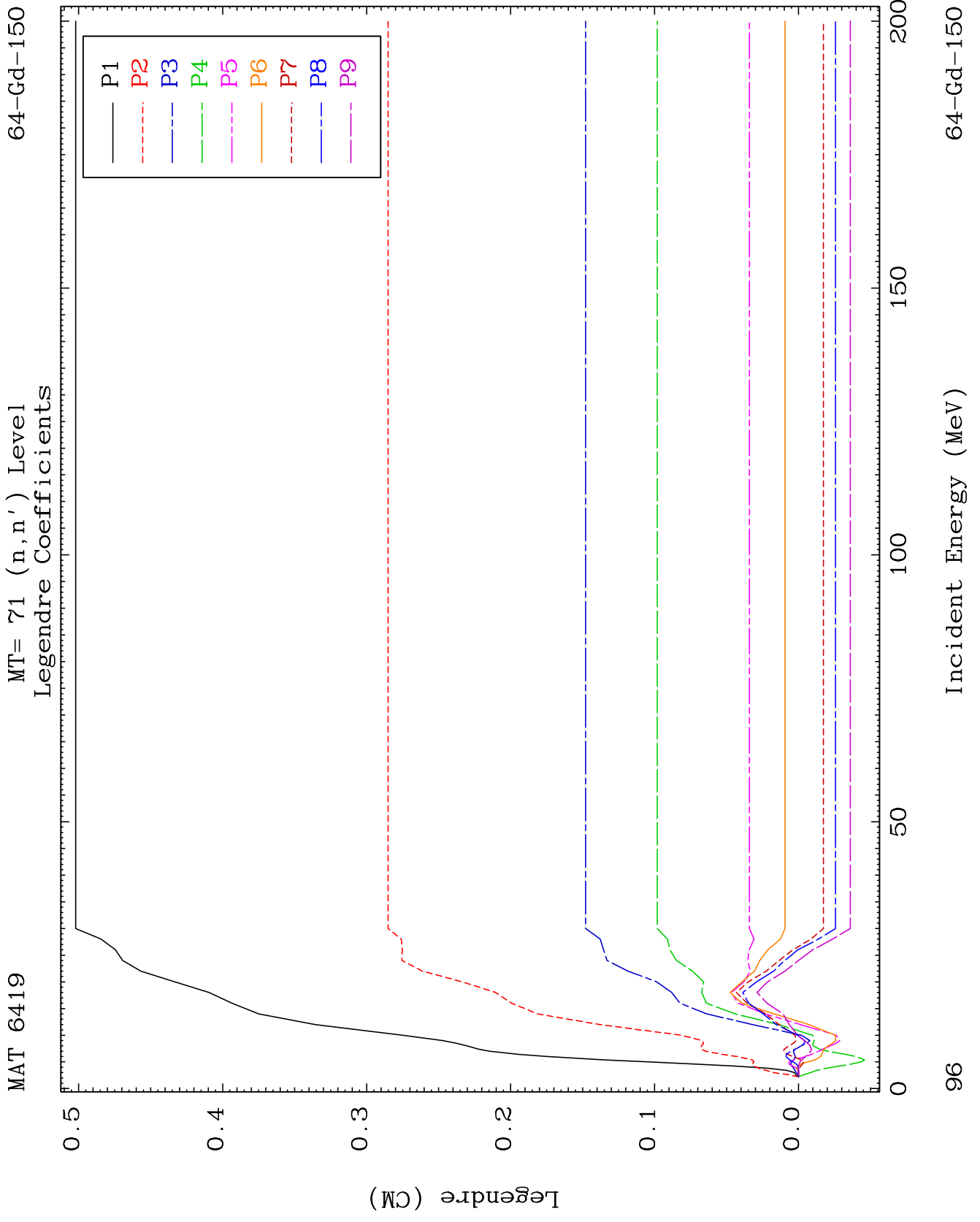


94

Incident Energy (MeV)

64-Gd-150

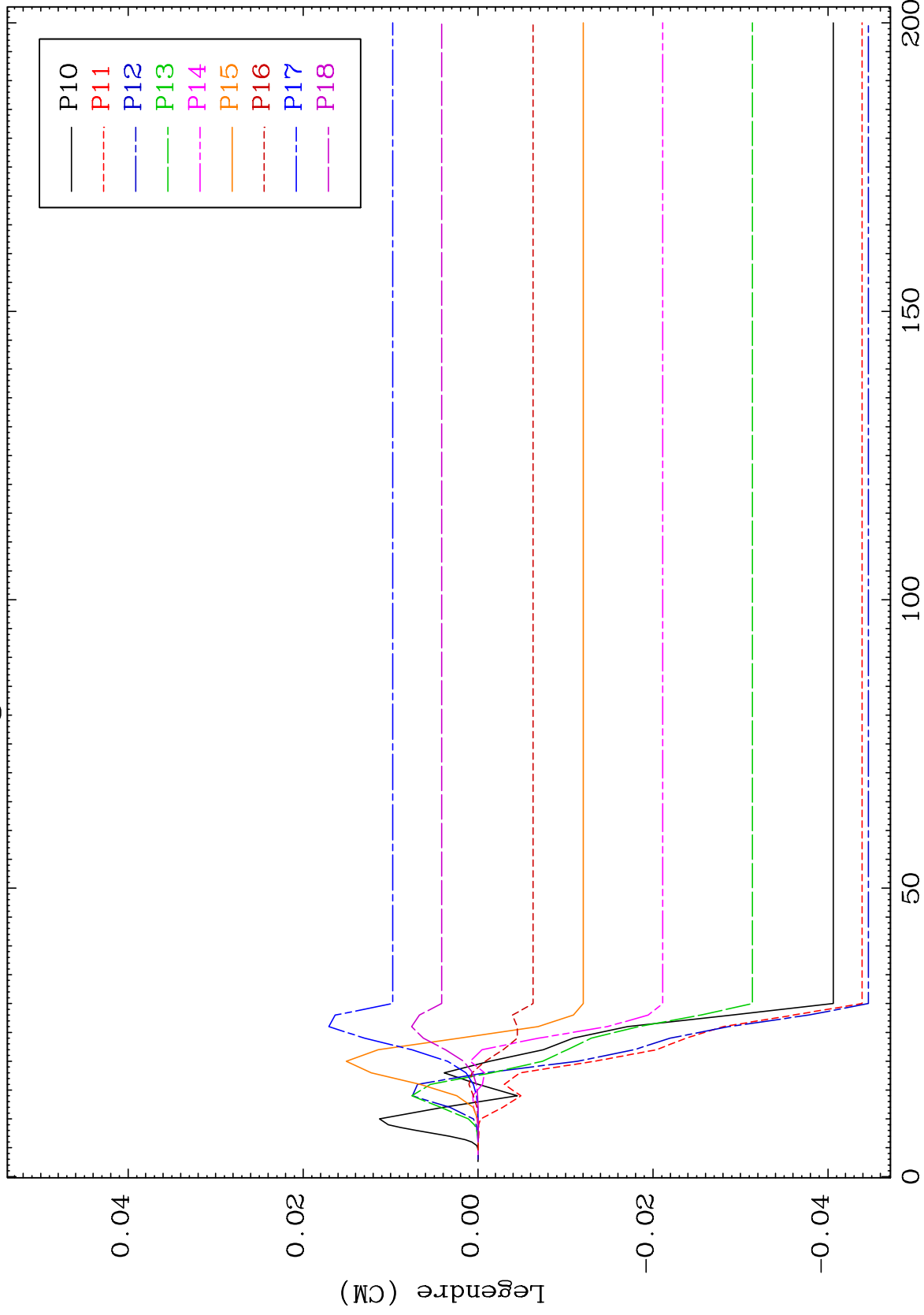




MAT 6419

MT= 71 (n,n') Level
Legendre Coefficients

64-Gd-150



97

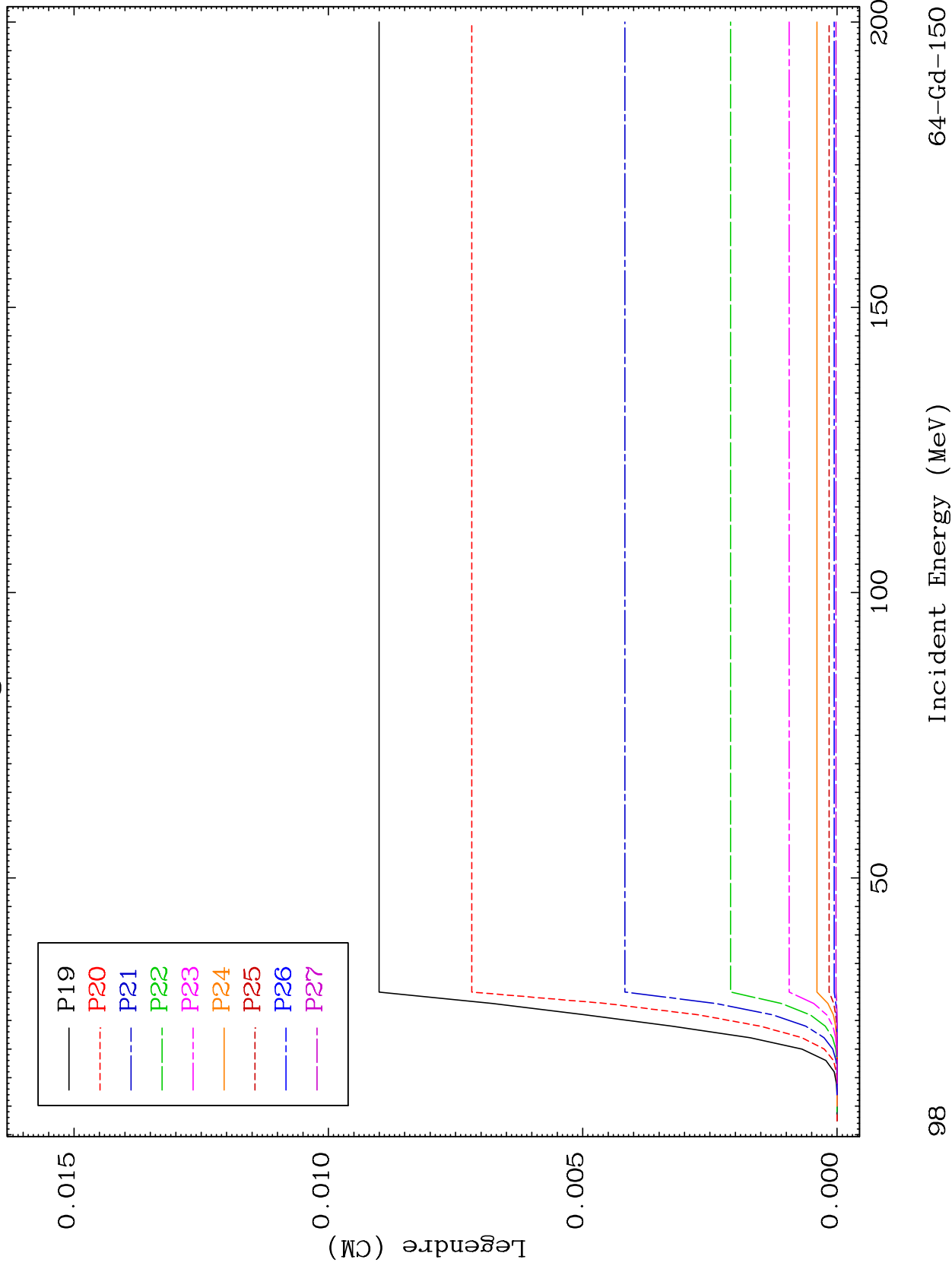
Incident Energy (MeV)

64-Gd-150

MAT 6419

MT= 71 (n,n') Level
Legendre Coefficients

64-Gd-150



98

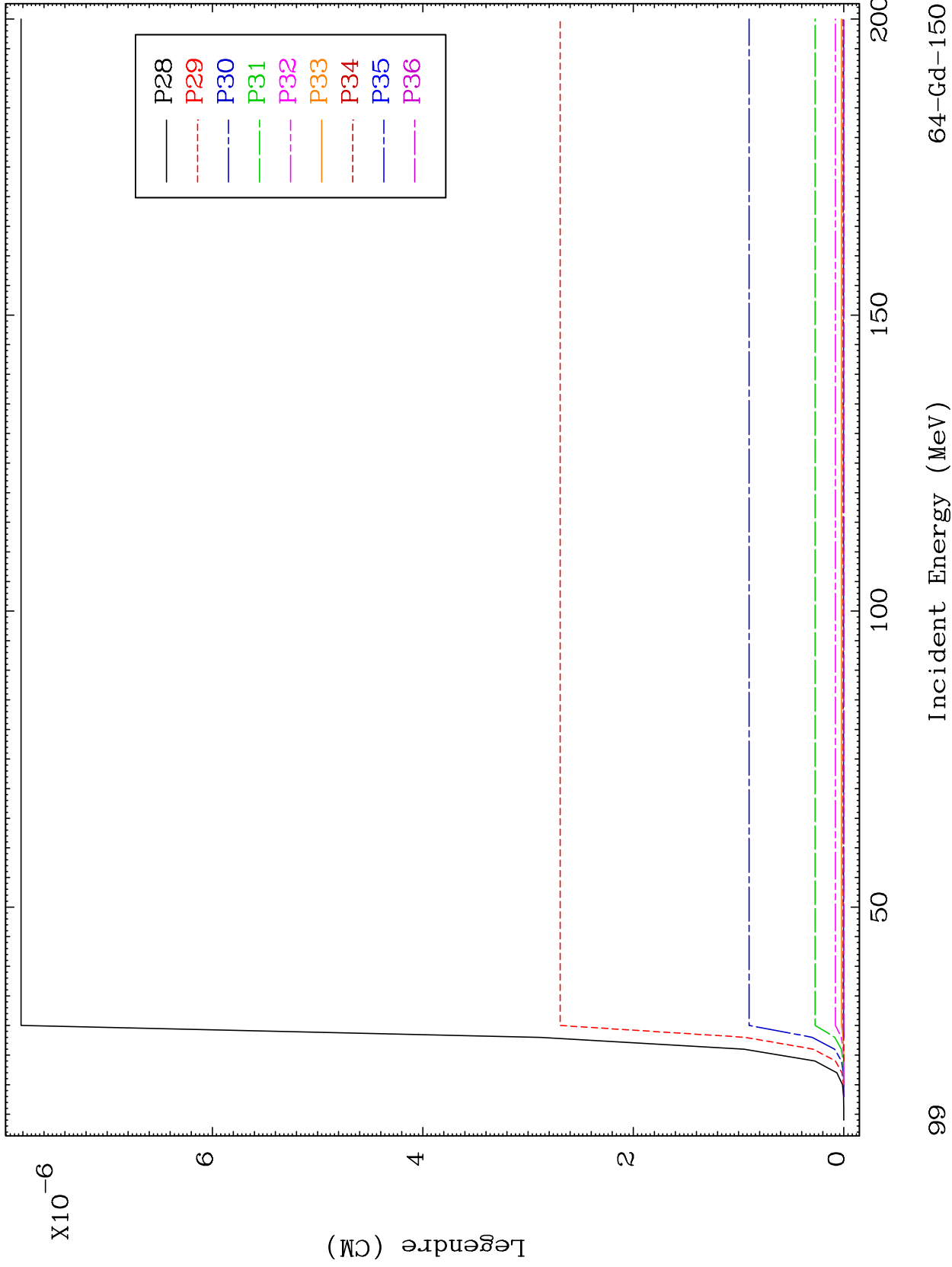
Incident Energy (MeV)

64-Gd-150

MAT 6419

MT= 71 (n,n') Level
Legendre Coefficients

64-Gd-150



99

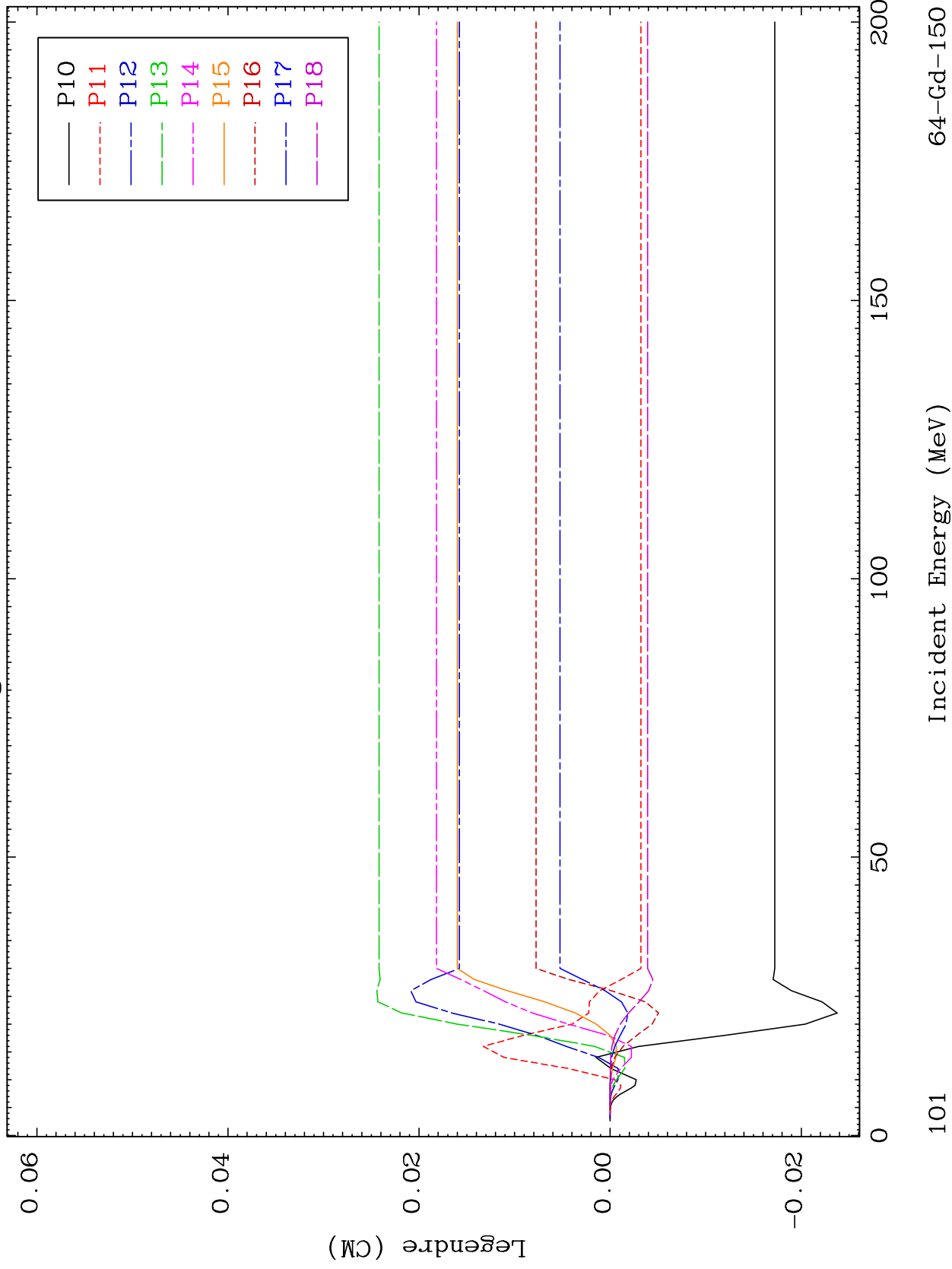
Incident Energy (MeV)

64-Gd-150

MAT 6419

MT= 72 (n,n') Level
Legendre Coefficients

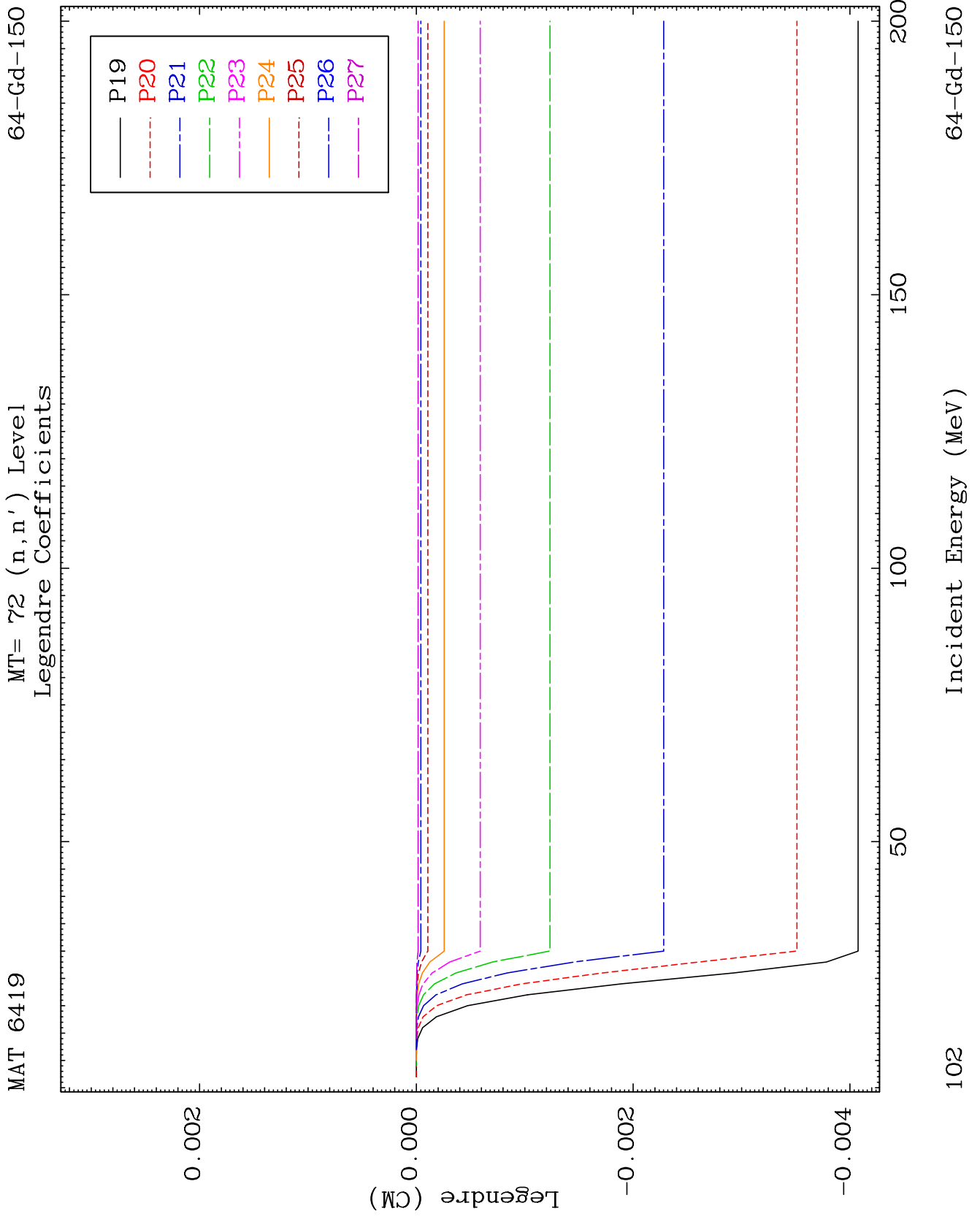
64-Gd-150

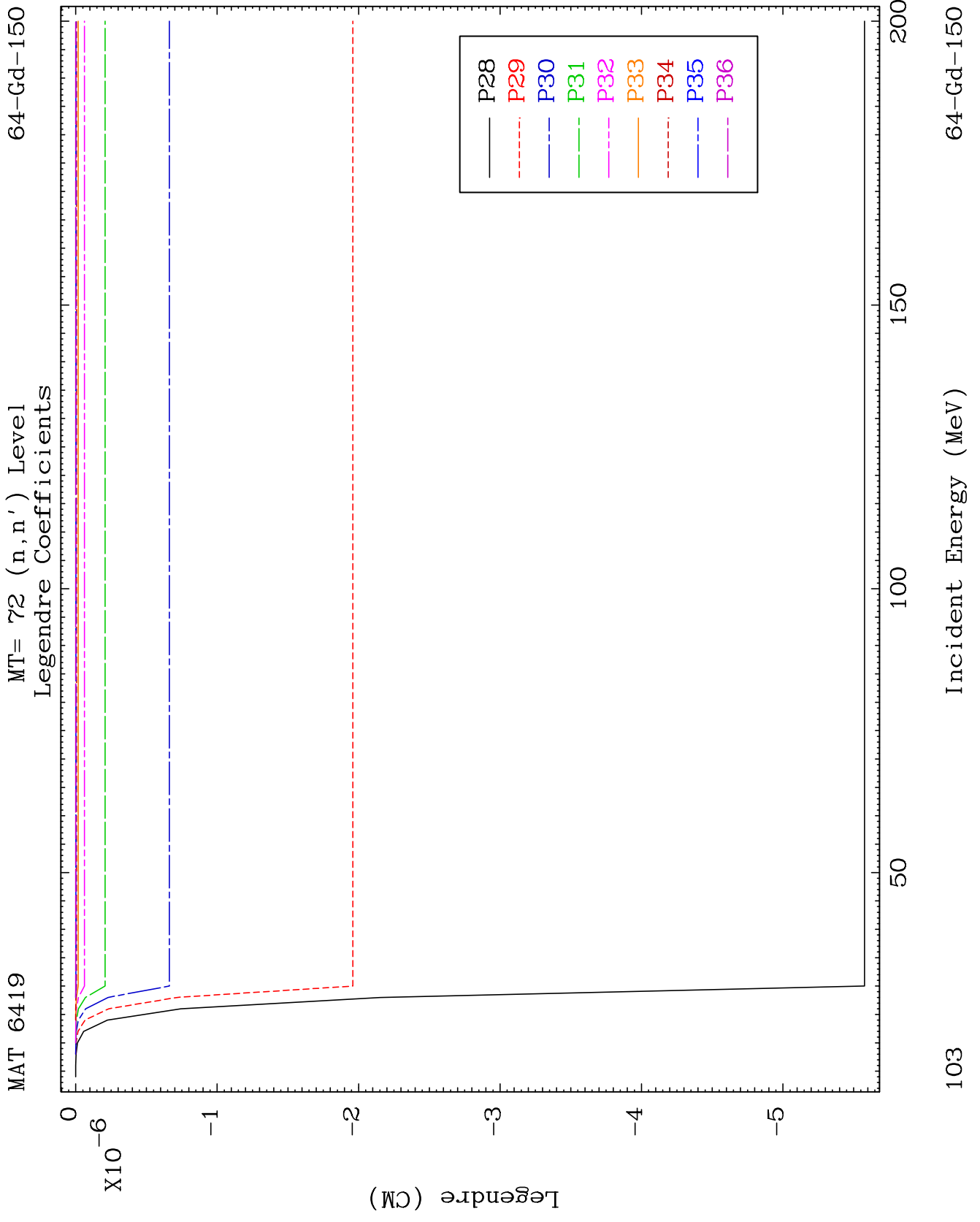


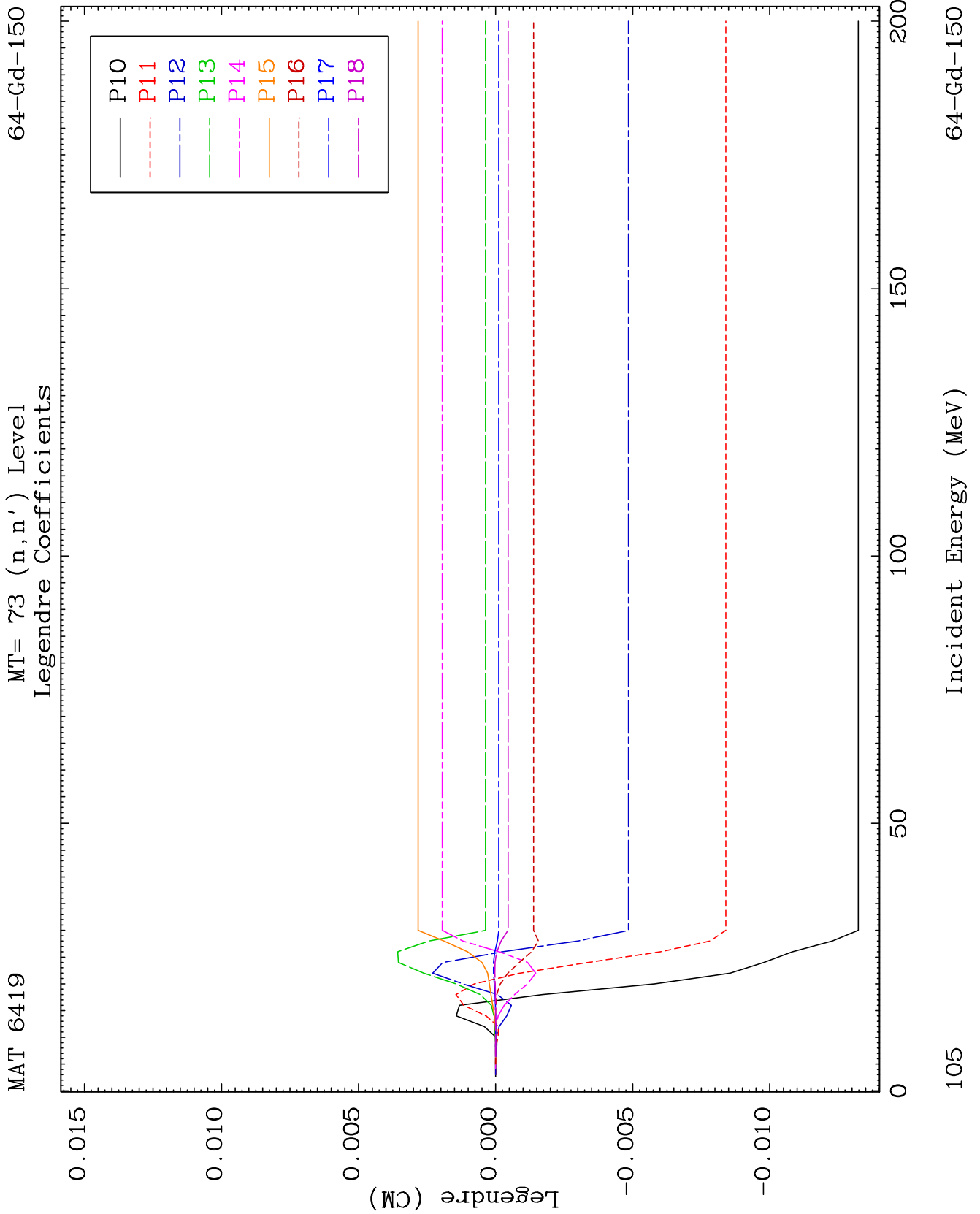
101

Incident Energy (MeV)

64-Gd-150



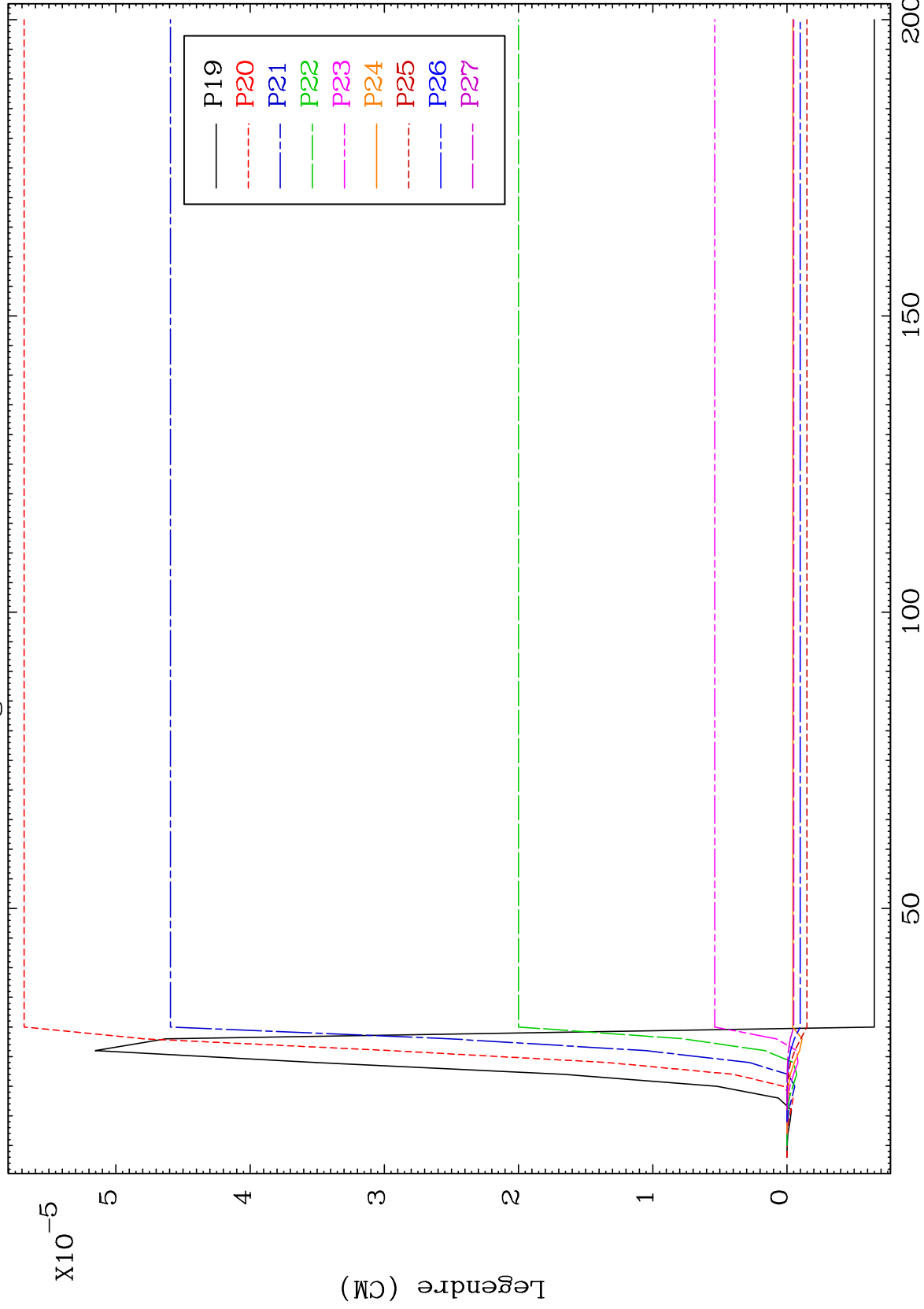




MAT 6419

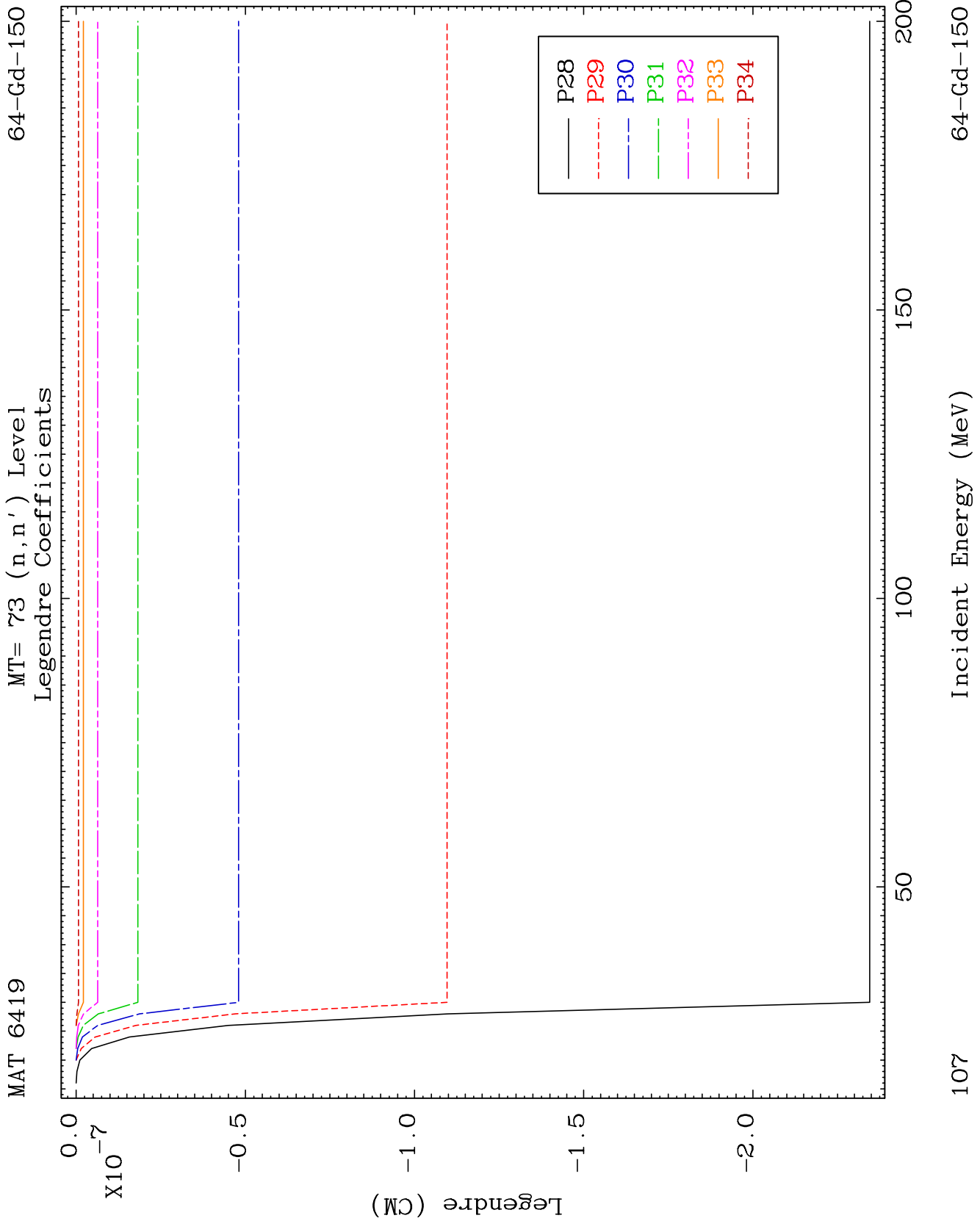
MT= 73 (n,n') Level
Legendre Coefficients

64-Gd-150



106

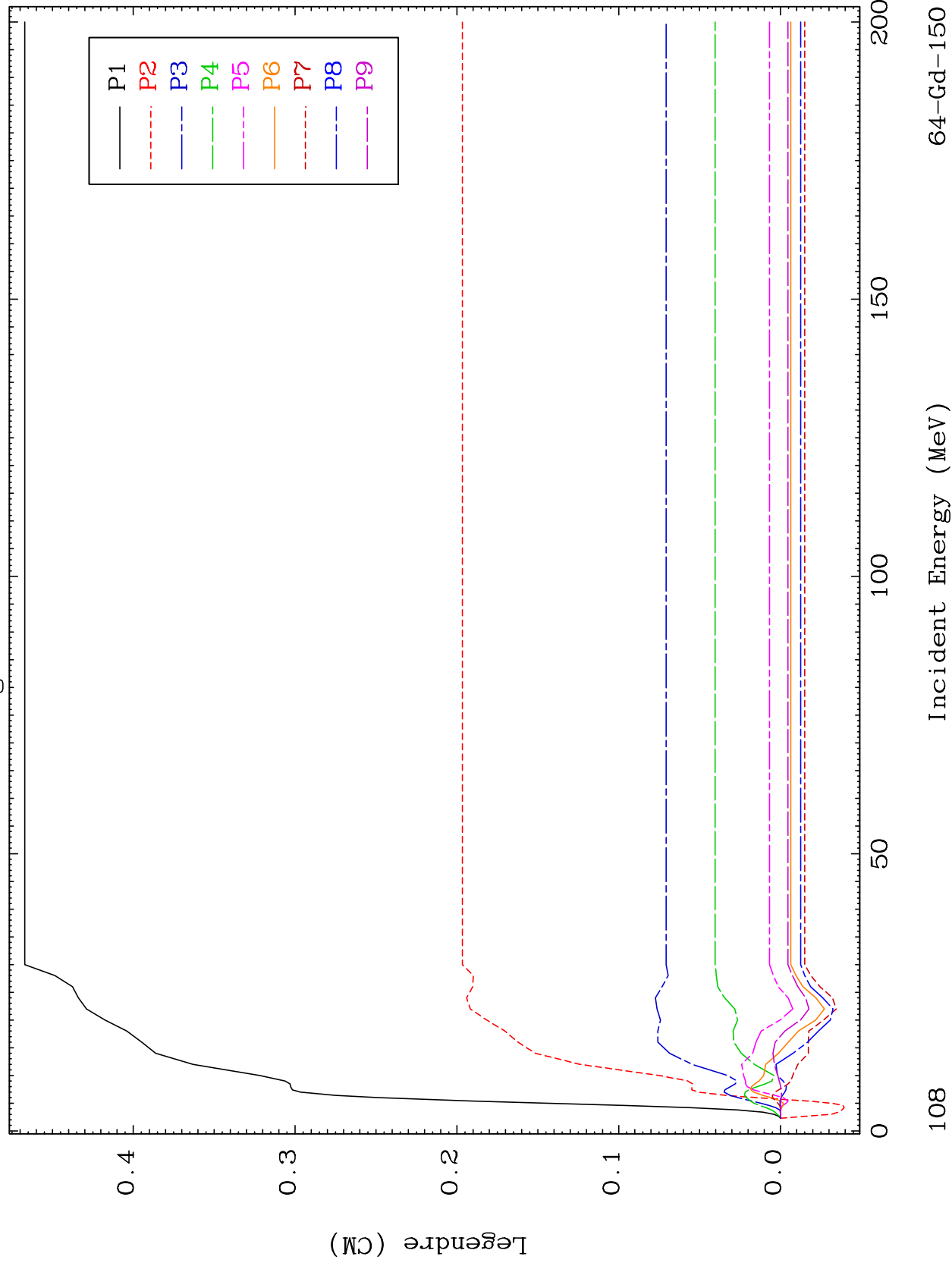
64-Gd-150



MAT 6419

MT= 74 (n,n') Level
Legendre Coefficients

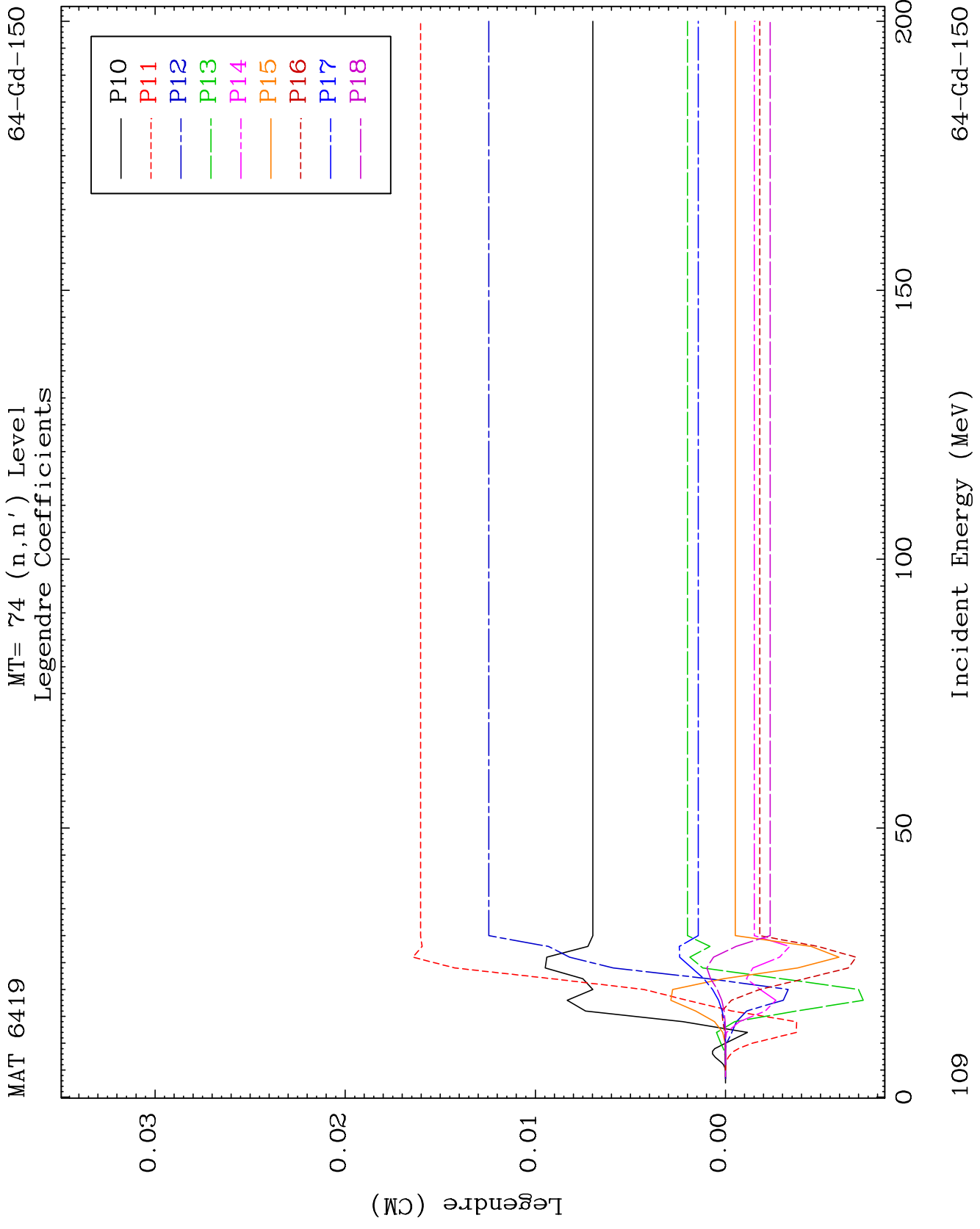
64-Gd-150

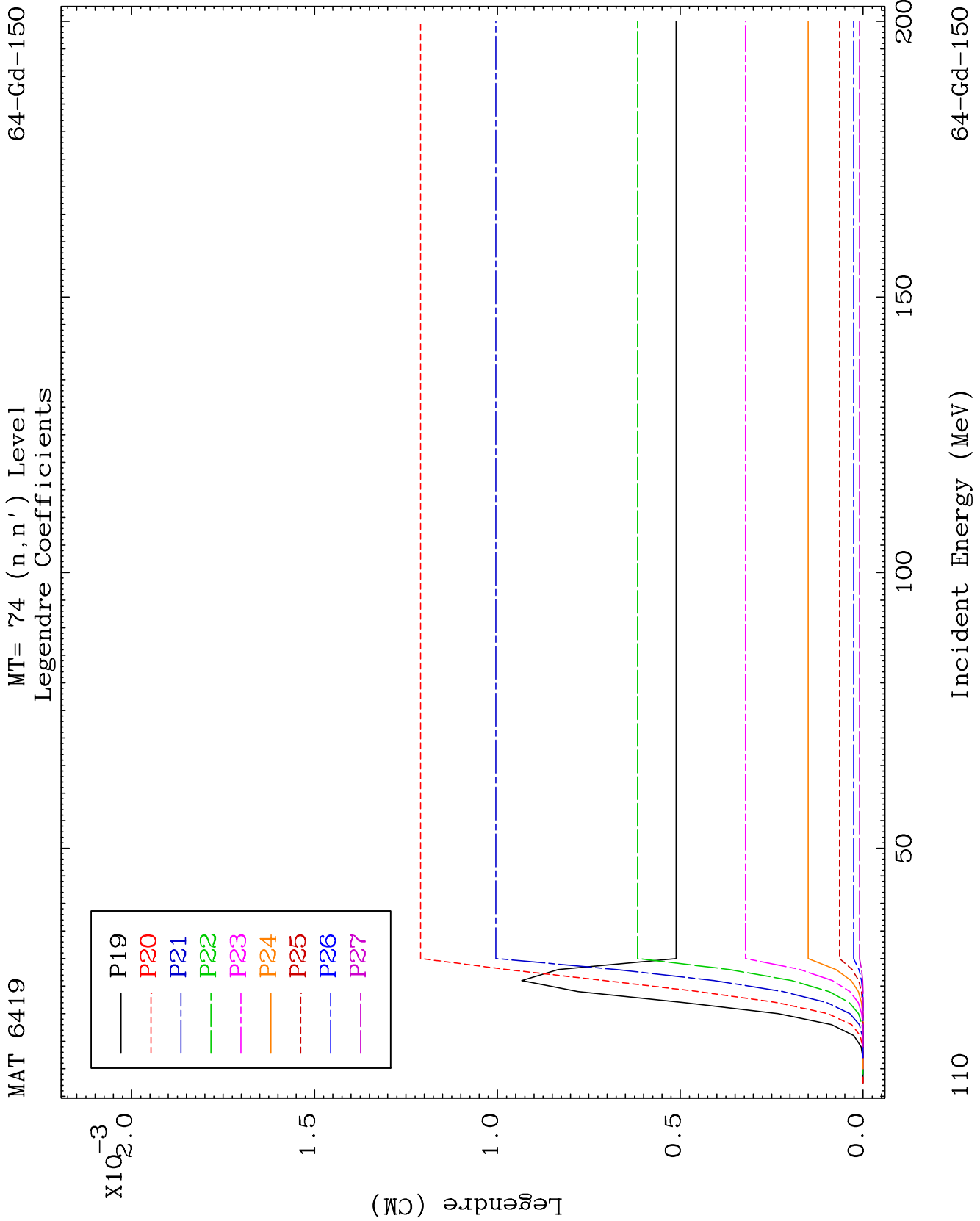


64-Gd-150

Incident Energy (MeV)

108

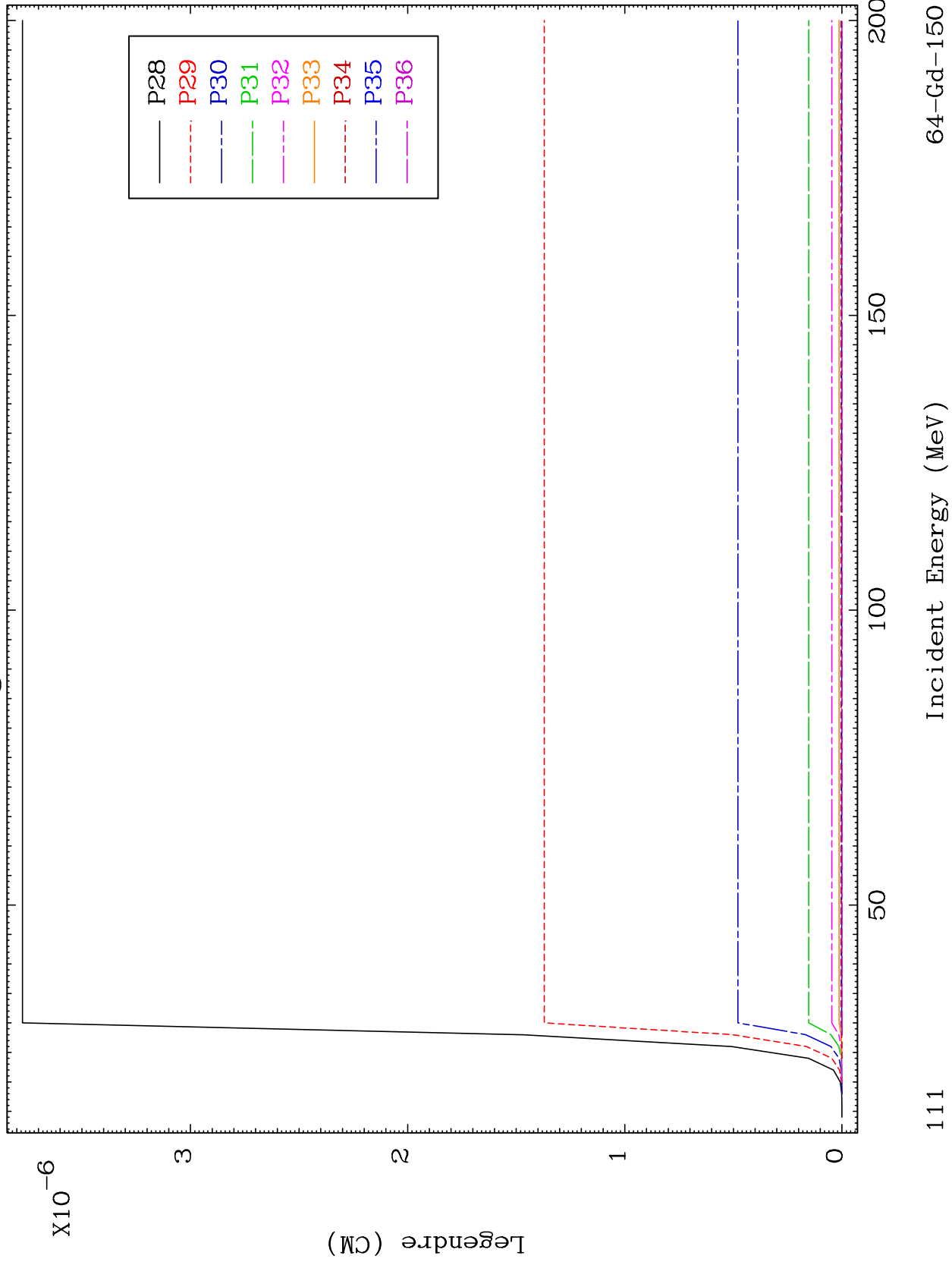




MAT 6419

MT= 74 (n,n') Level
Legendre Coefficients

64-Gd-150



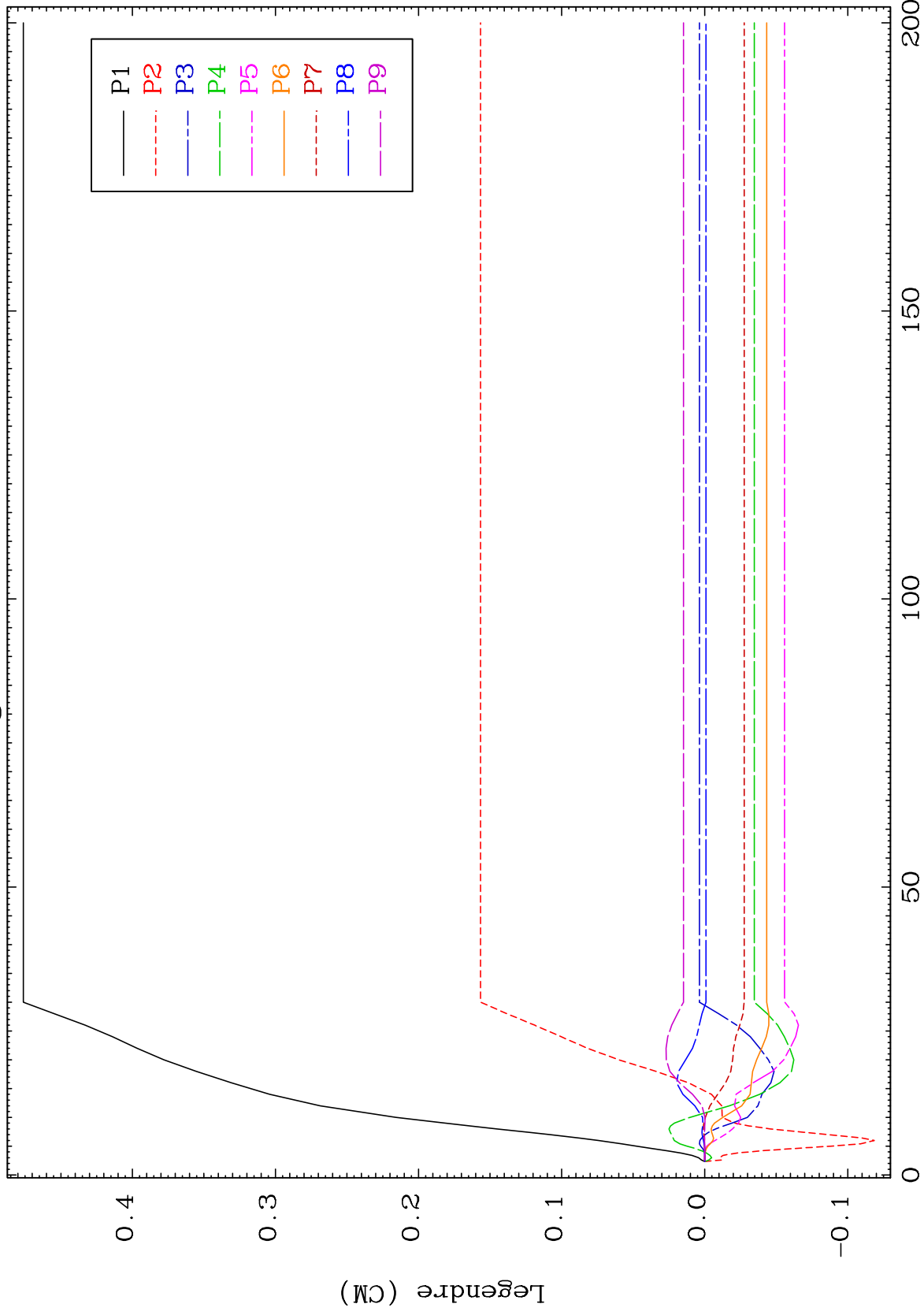
111

64-Gd-150

MAT 6419

MT= 75 (n,n') Level
Legendre Coefficients

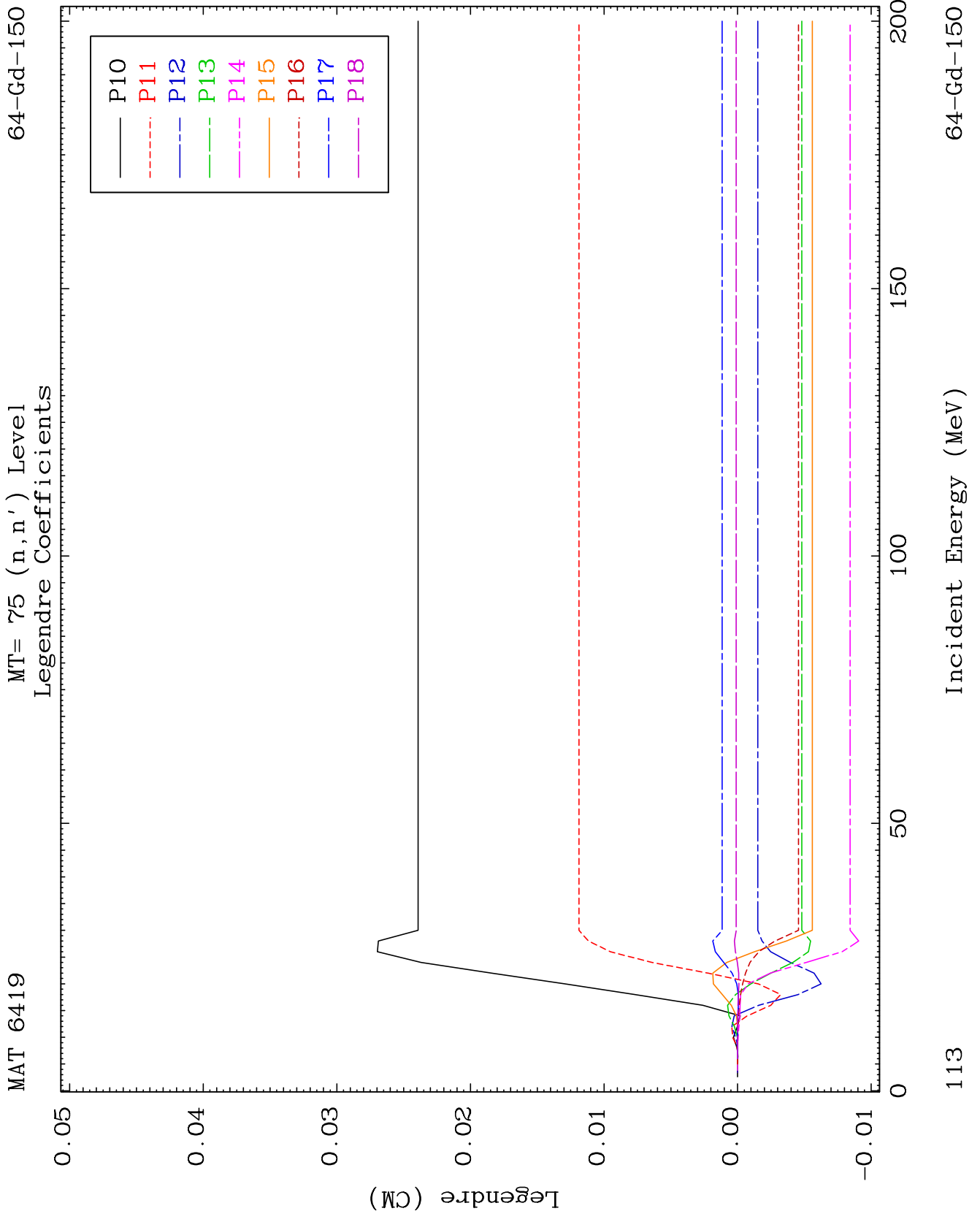
64-Gd-150



112

Incident Energy (MeV)

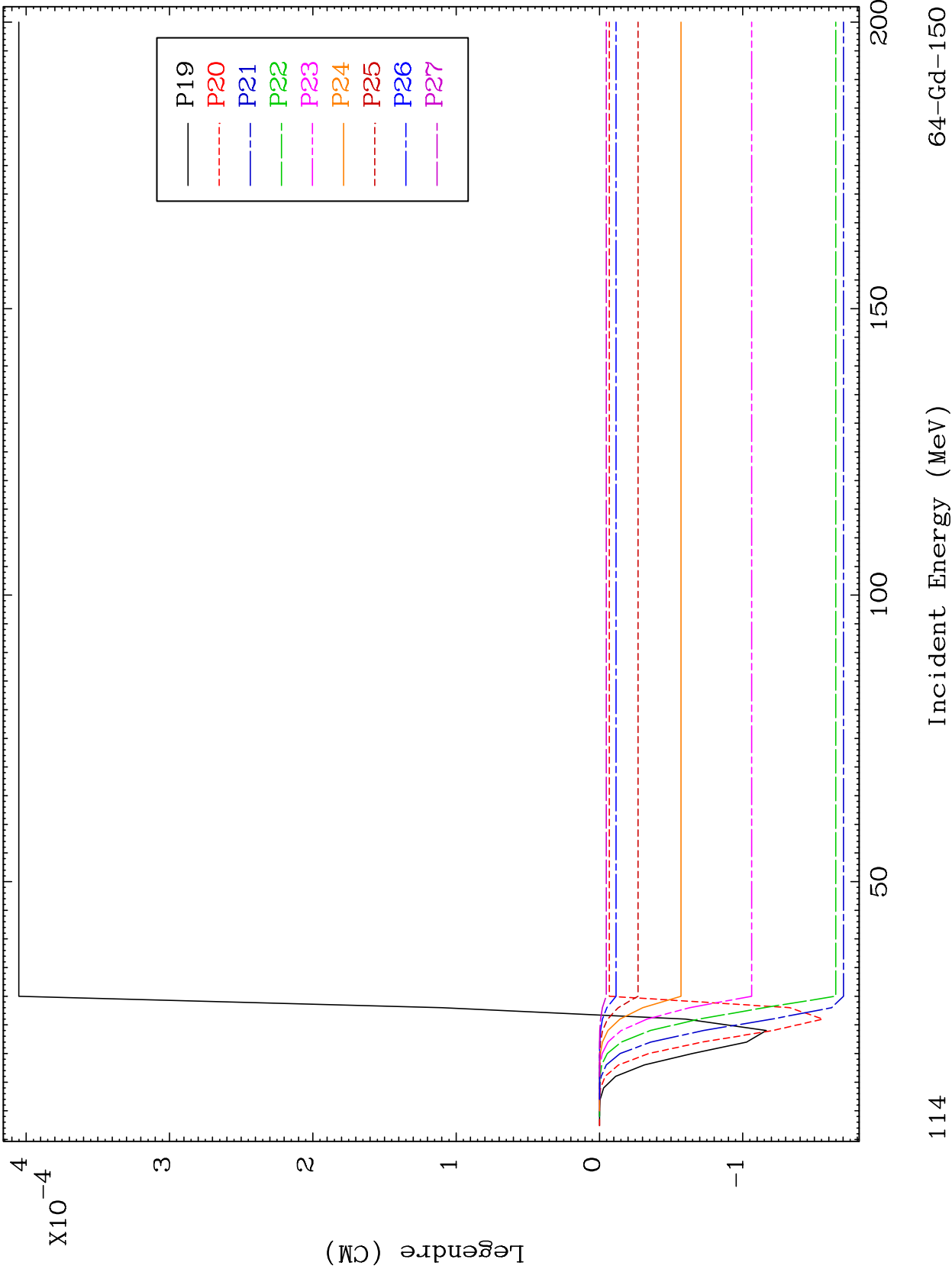
64-Gd-150

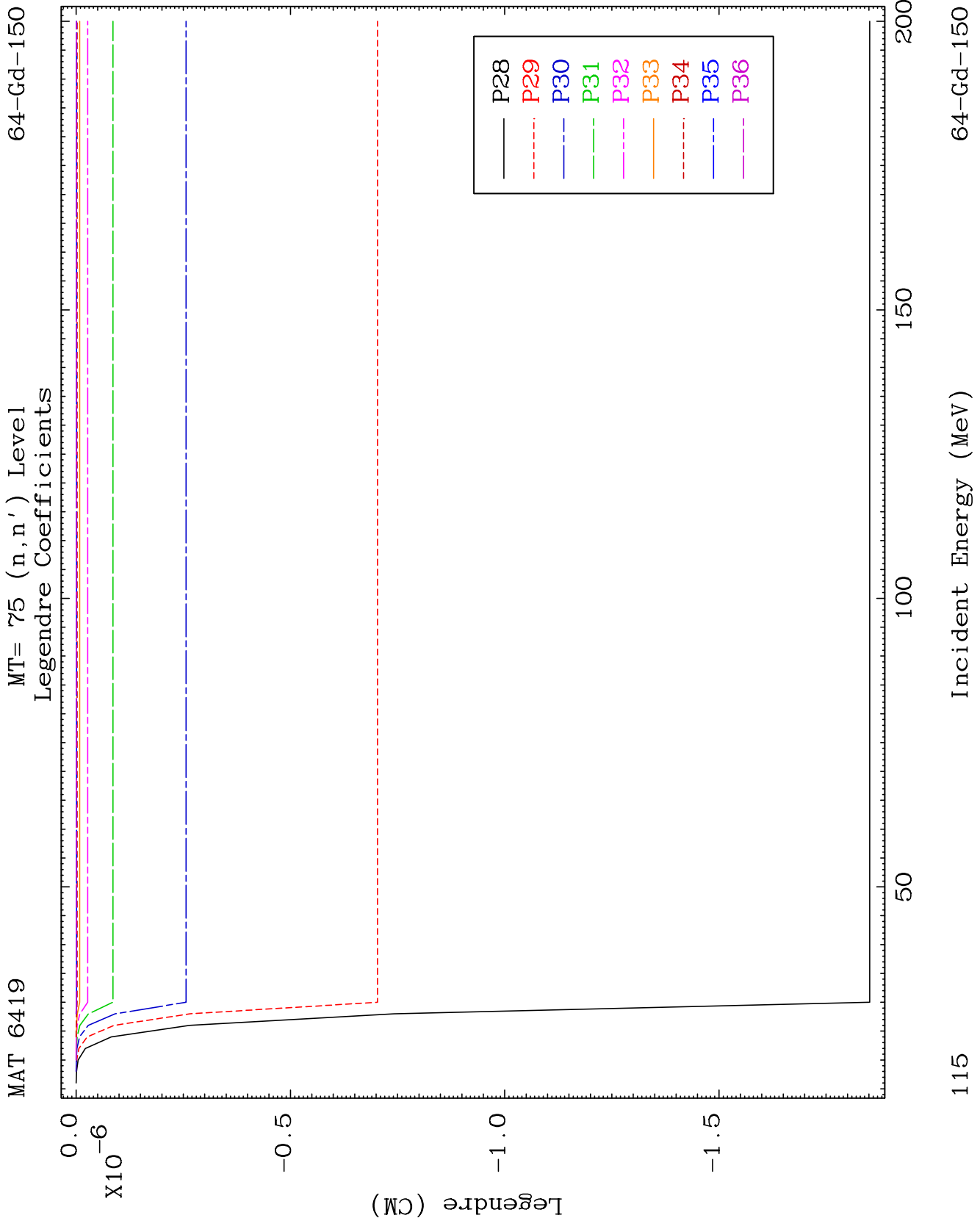


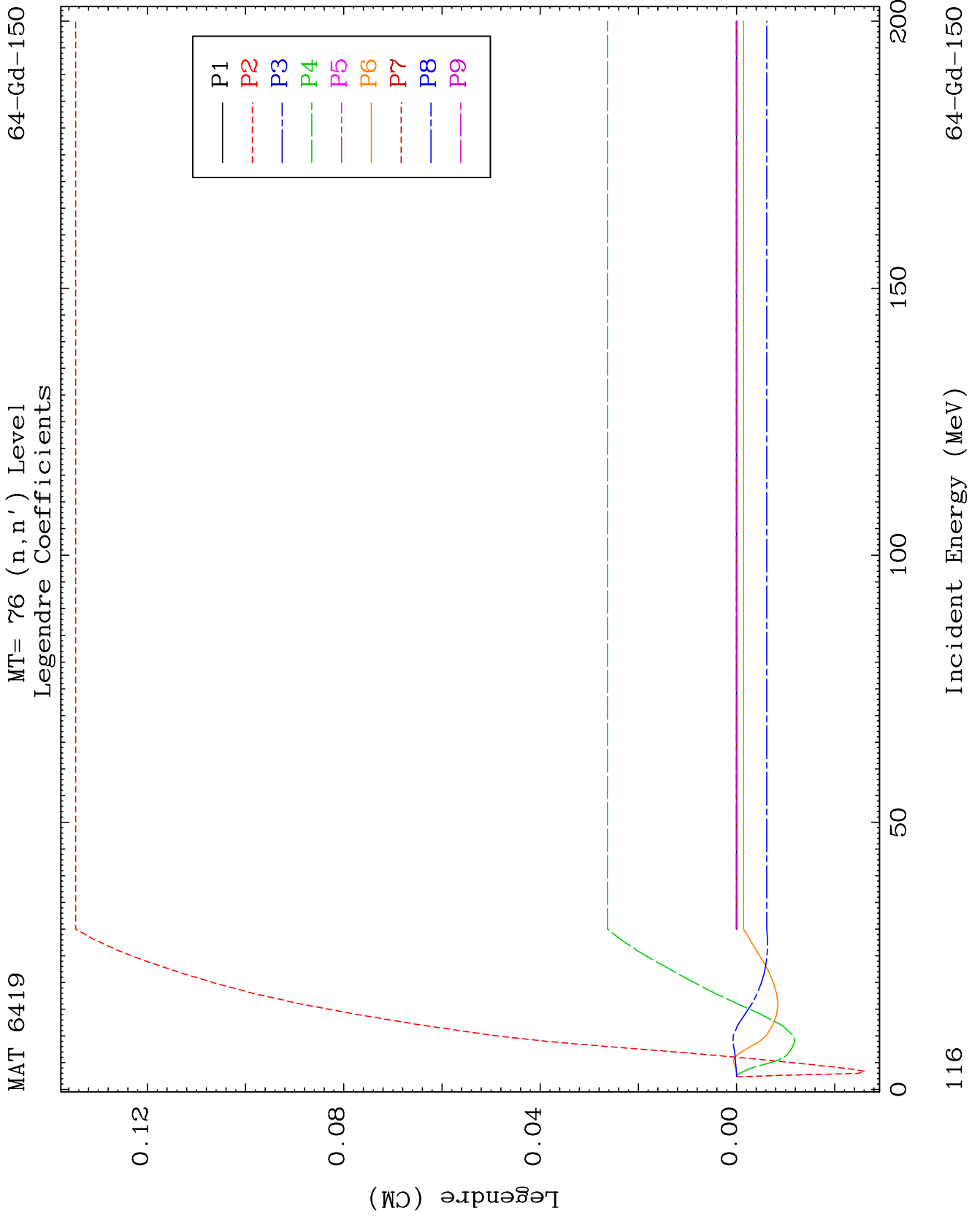
MAT 6419

MT= 75 (n,n') Level
Legendre Coefficients

64-Gd-150



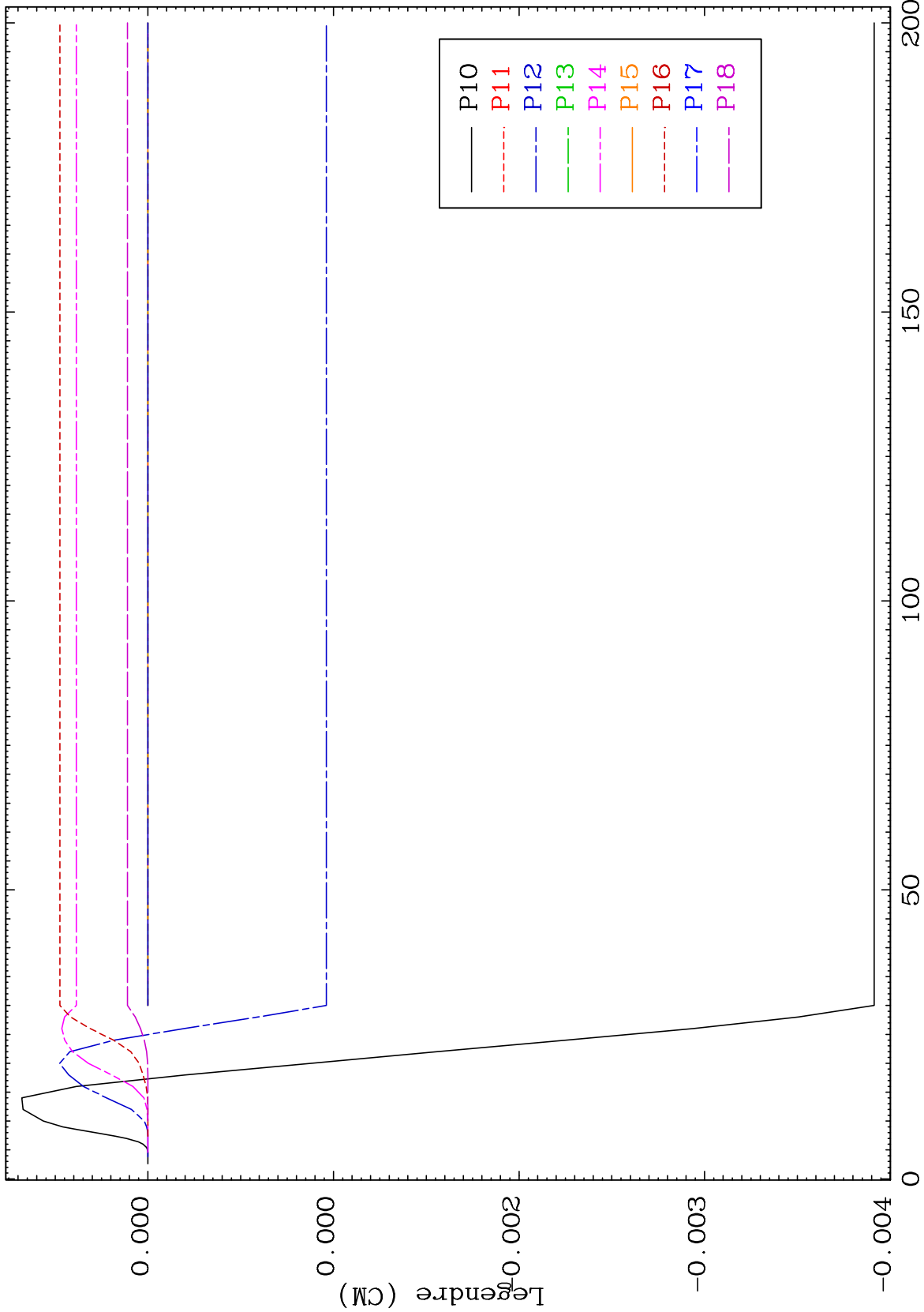




MAT 6419

MT= 76 (n,n') Level
Legendre Coefficients

64-Gd-150



117

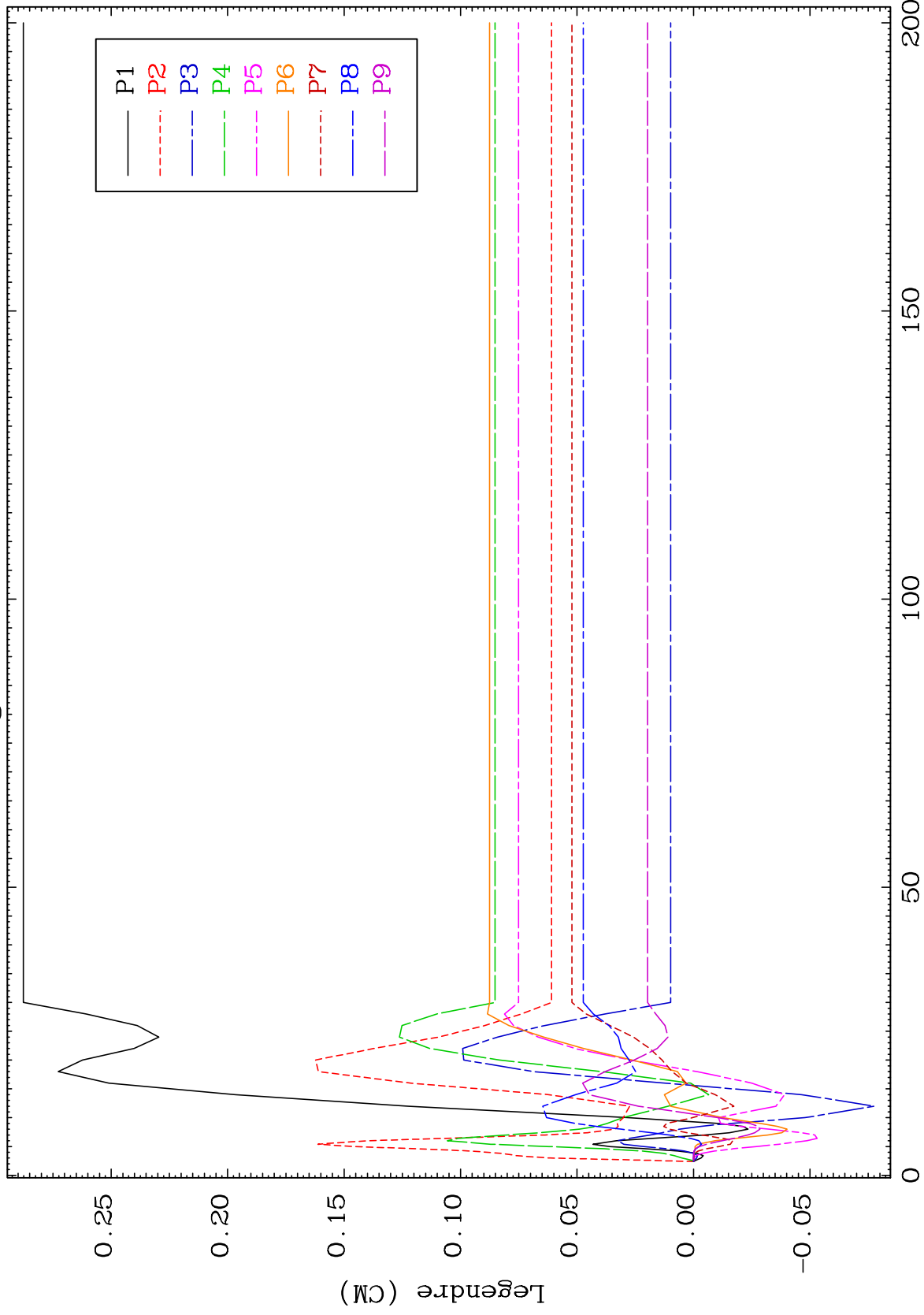
Incident Energy (MeV)

64-Gd-150

MAT 6419

MT= 77 (n,n') Level
Legendre Coefficients

64-Gd-150



119

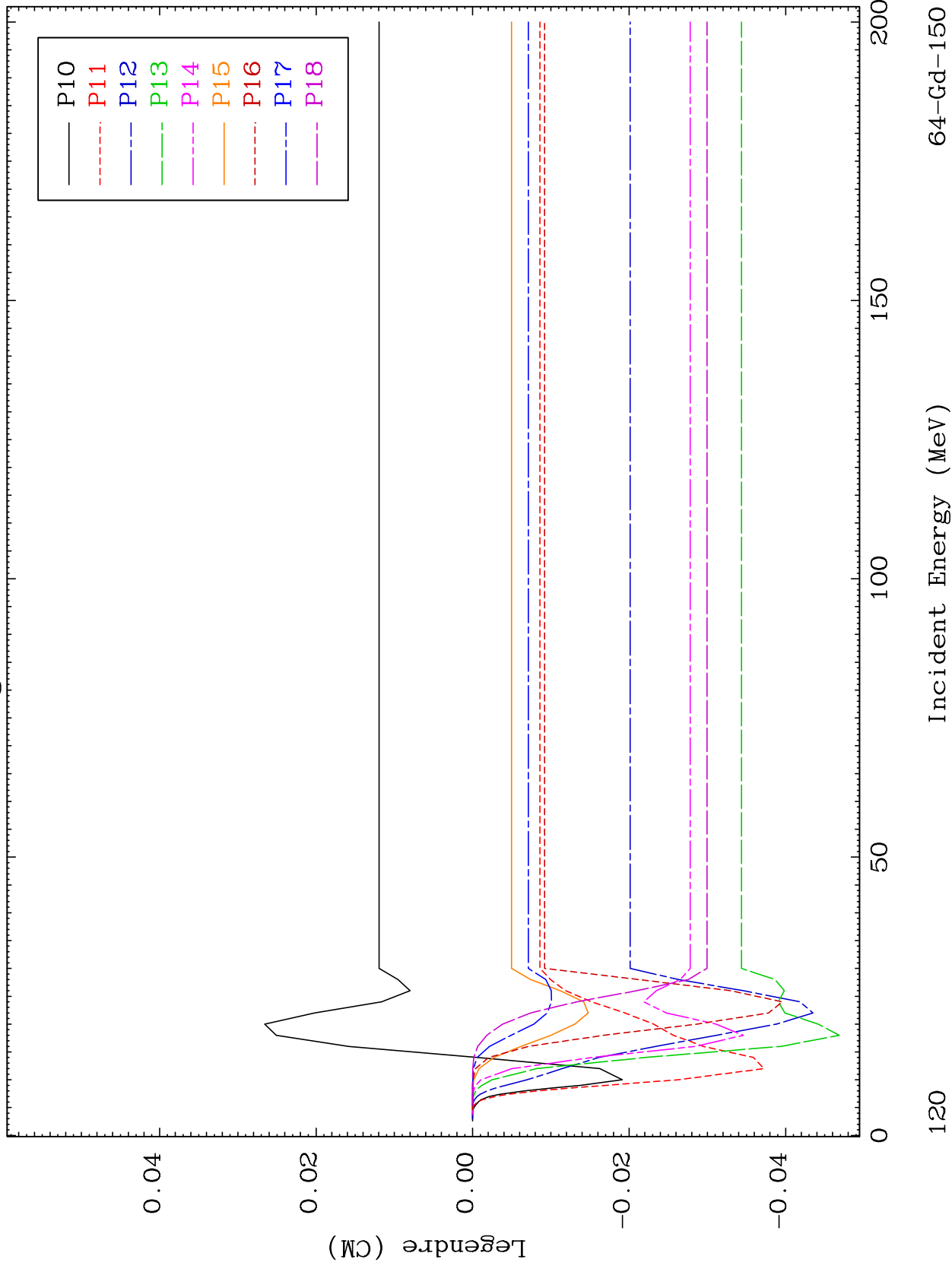
Incident Energy (MeV)

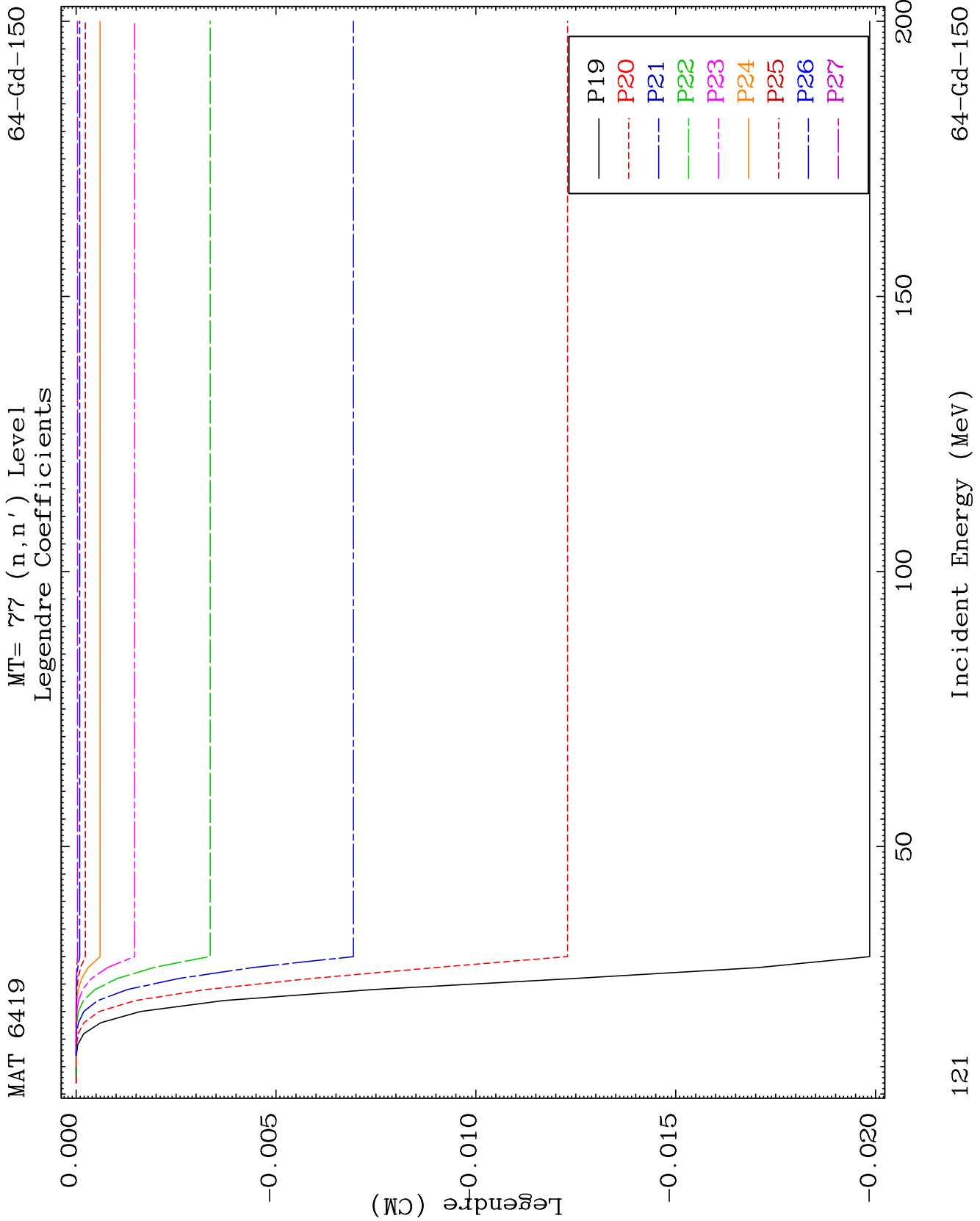
64-Gd-150

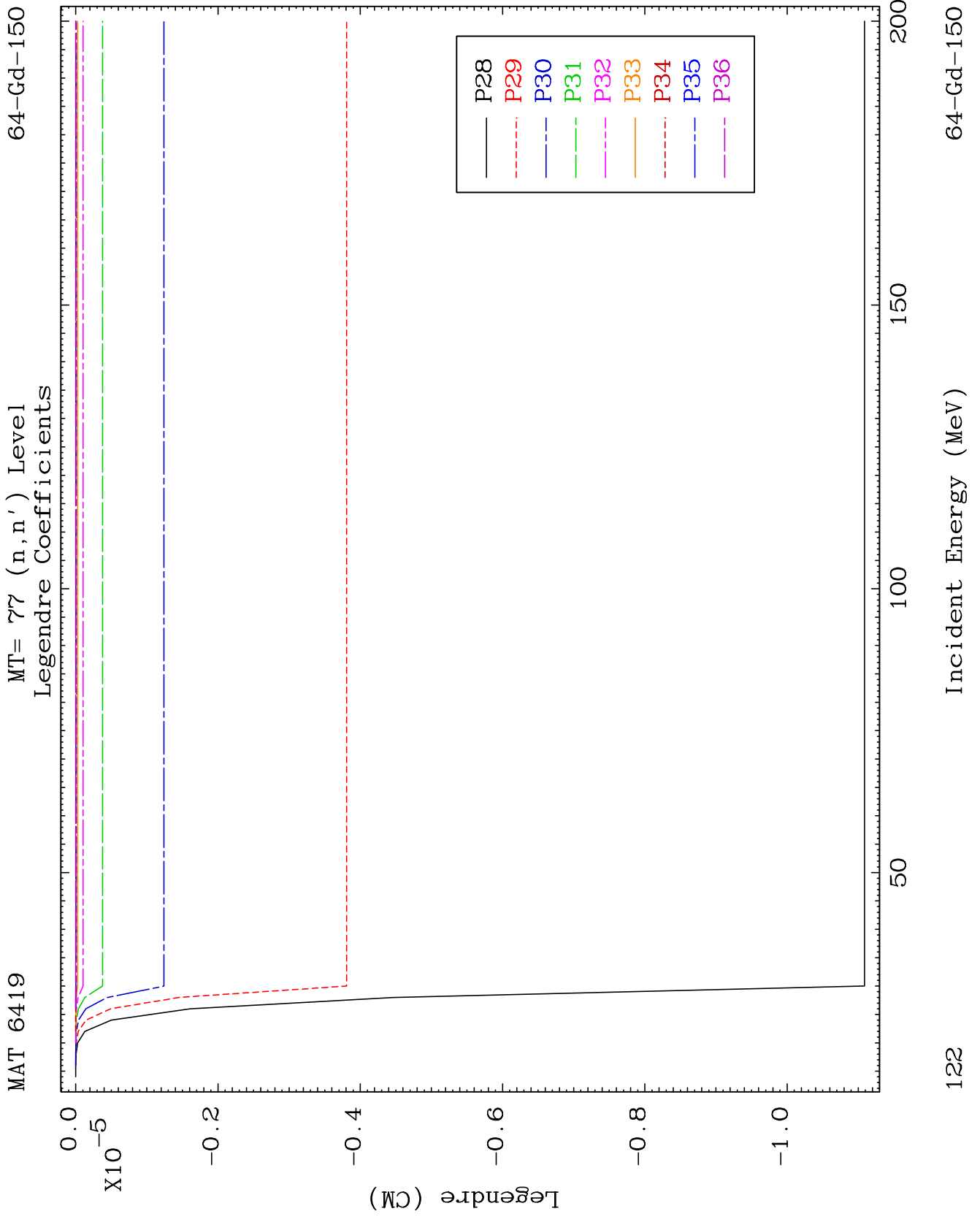
MAT 6419

MT= 77 (n,n') Level
Legendre Coefficients

64-Gd-150



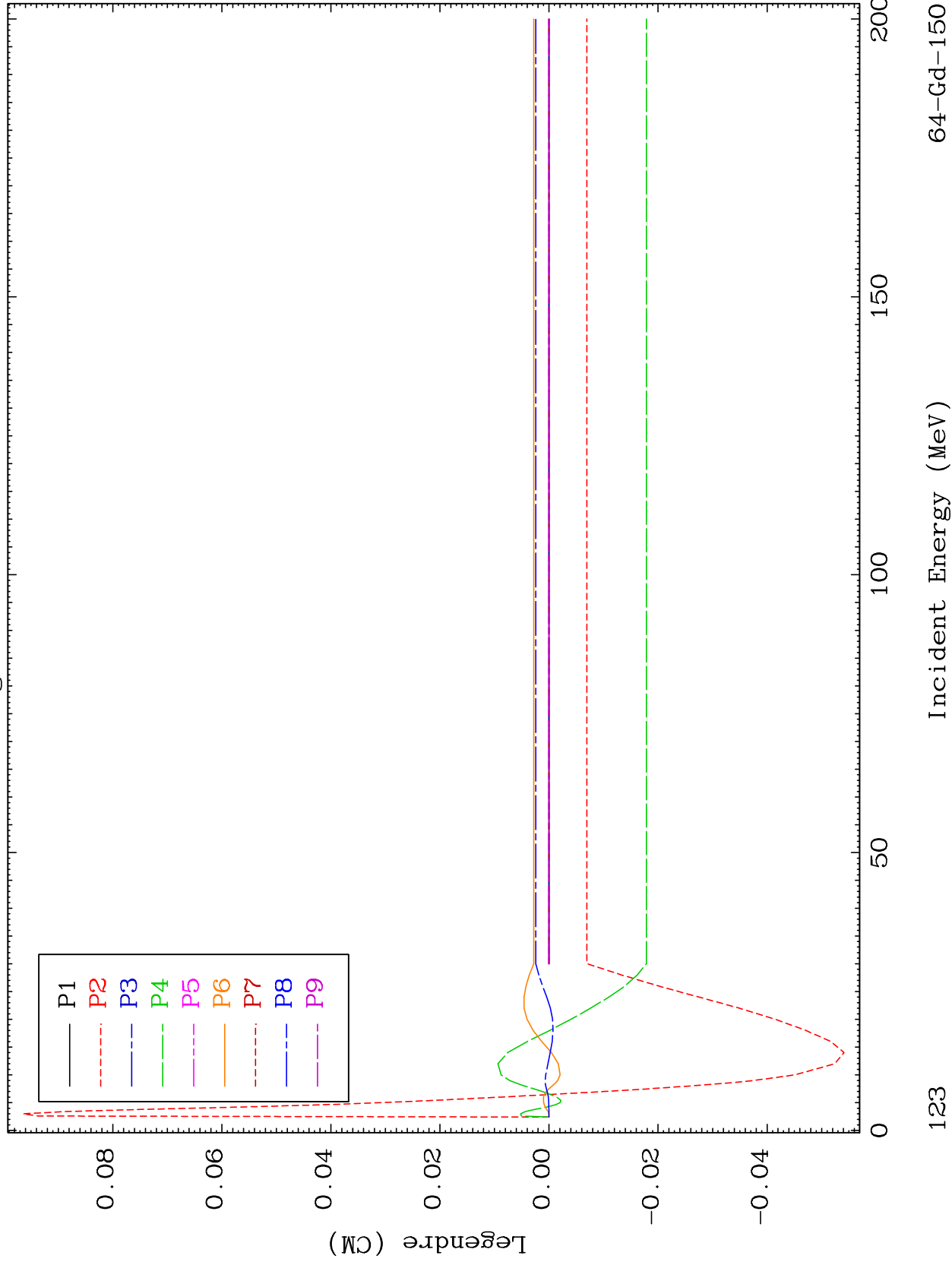




MAT 6419

MT= 78 (n,n') Level
Legendre Coefficients

64-Gd-150



123

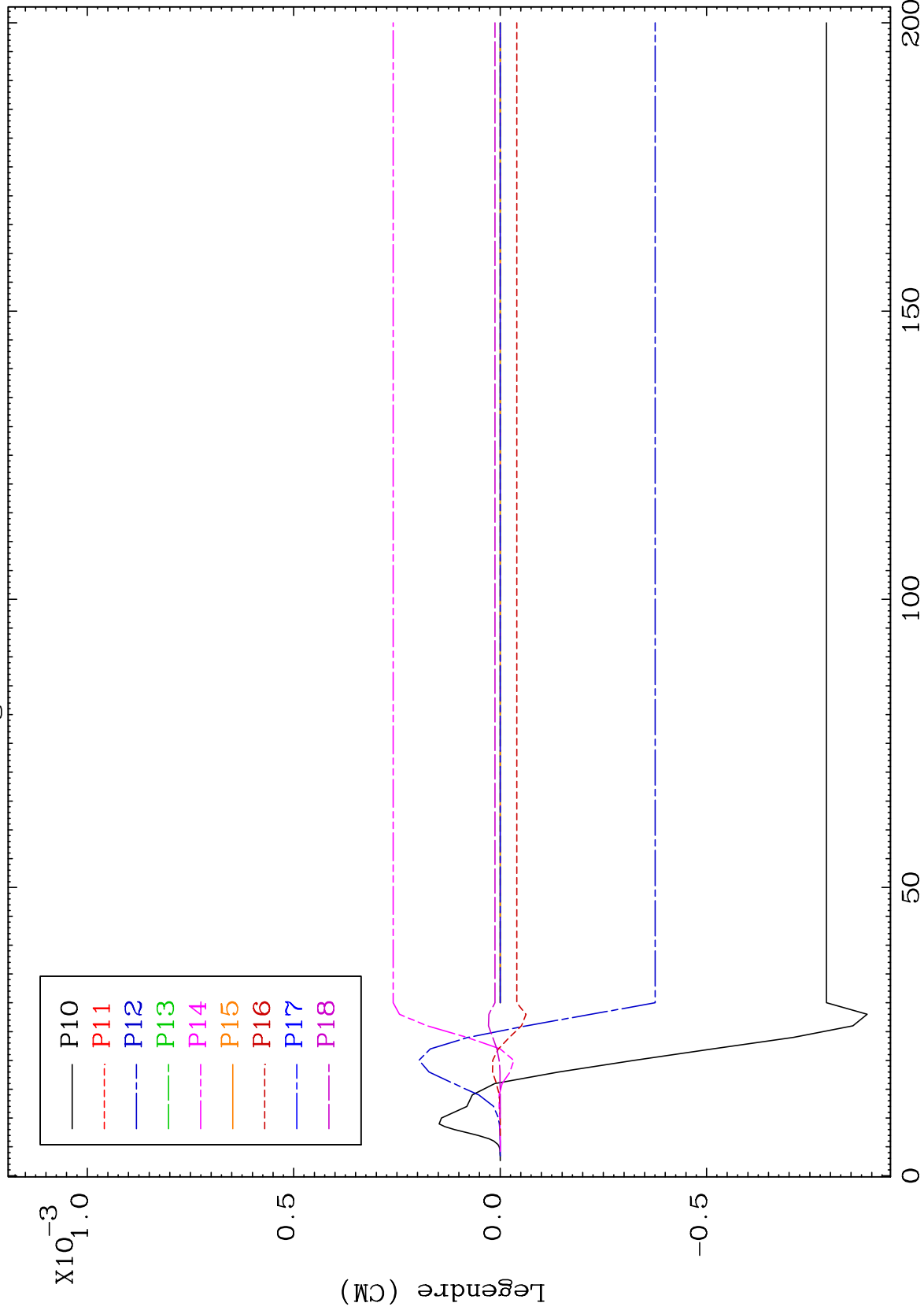
Incident Energy (MeV)

64-Gd-150

MAT 6419

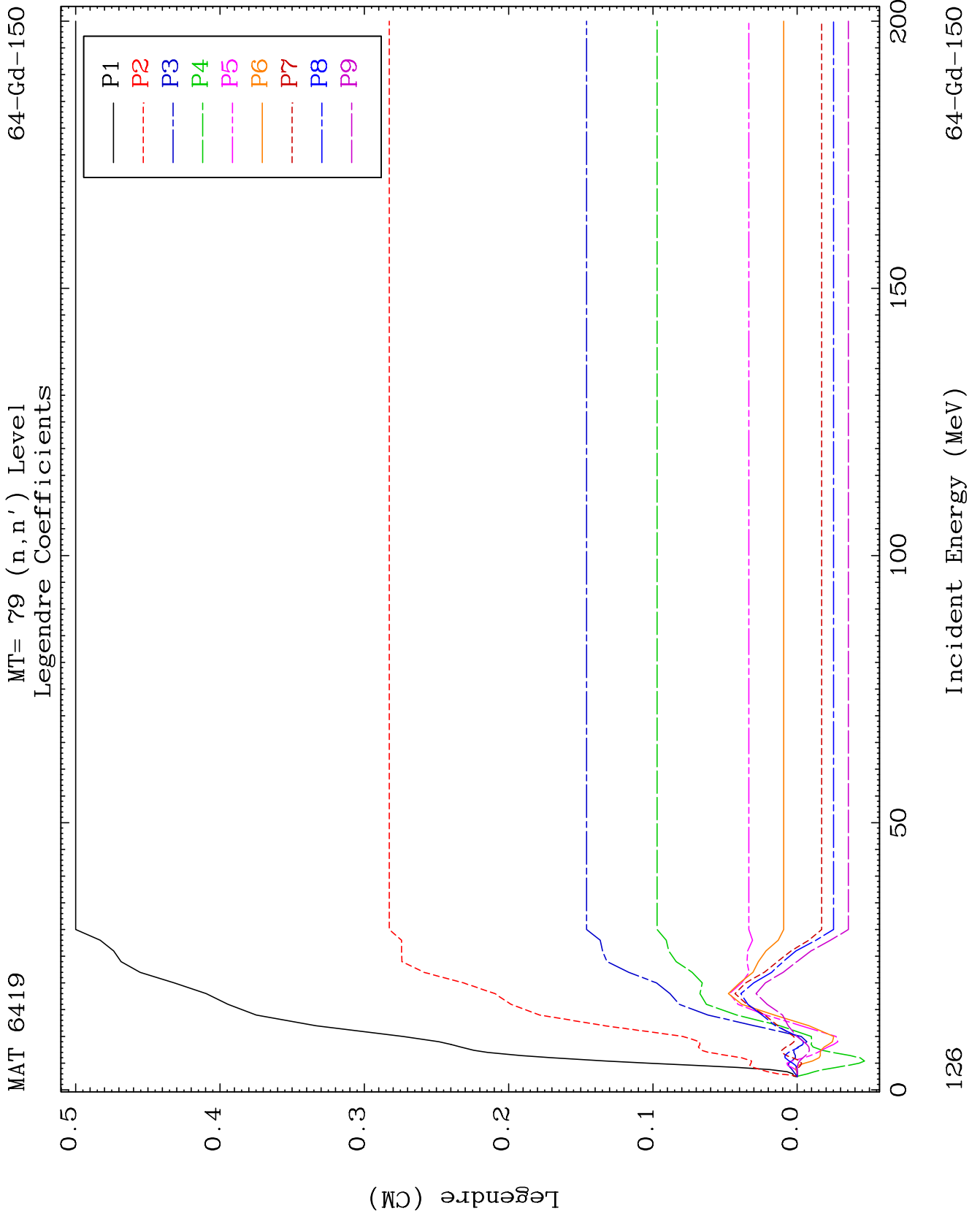
MT= 78 (n,n') Level
Legendre Coefficients

64-Gd-150



124

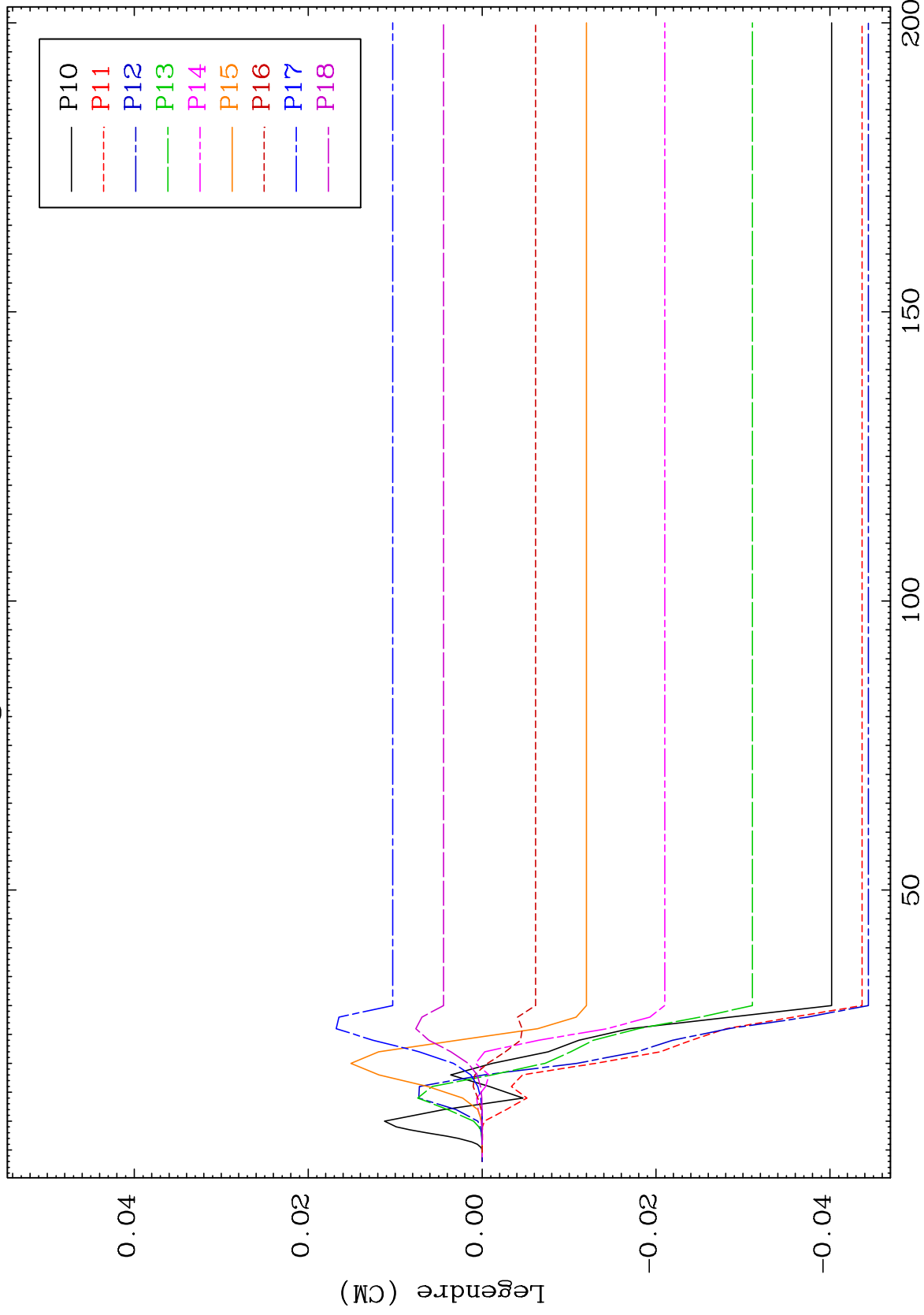
64-Gd-150



MAT 6419

MT= 79 (n,n') Level
Legendre Coefficients

64-Gd-150



127

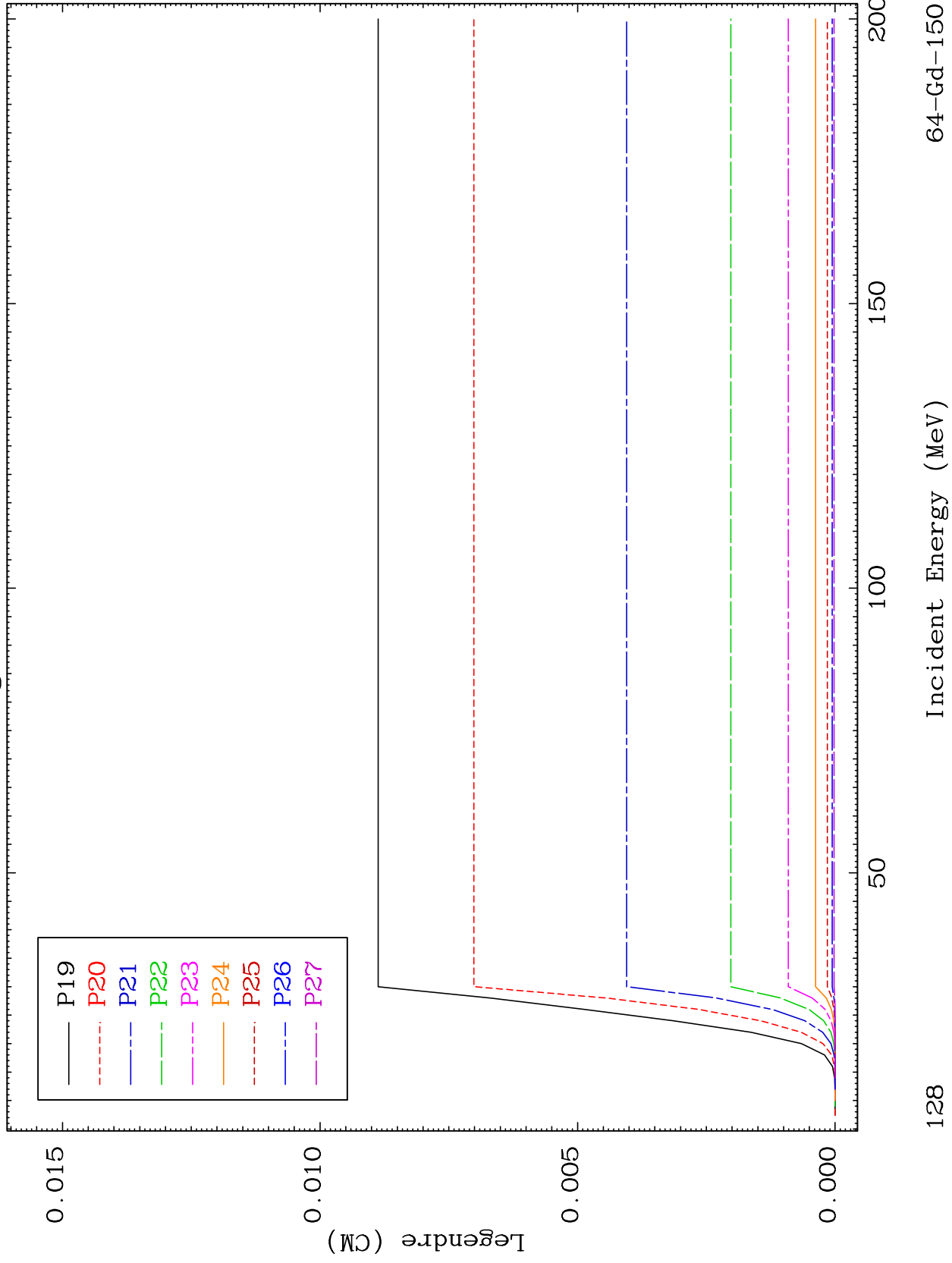
Incident Energy (MeV)

64-Gd-150

MAT 6419

MT= 79 (n,n') Level
Legendre Coefficients

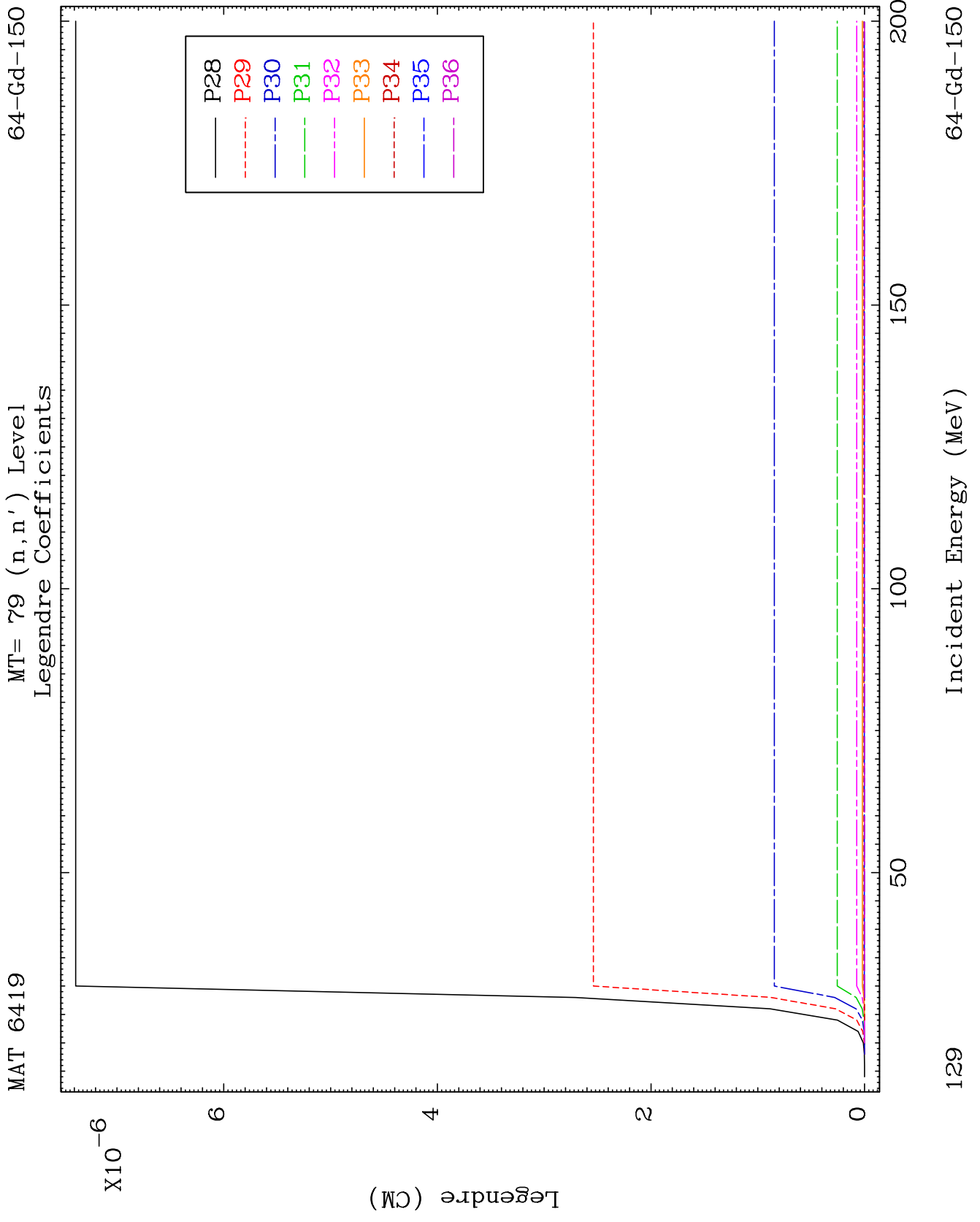
64-Gd-150

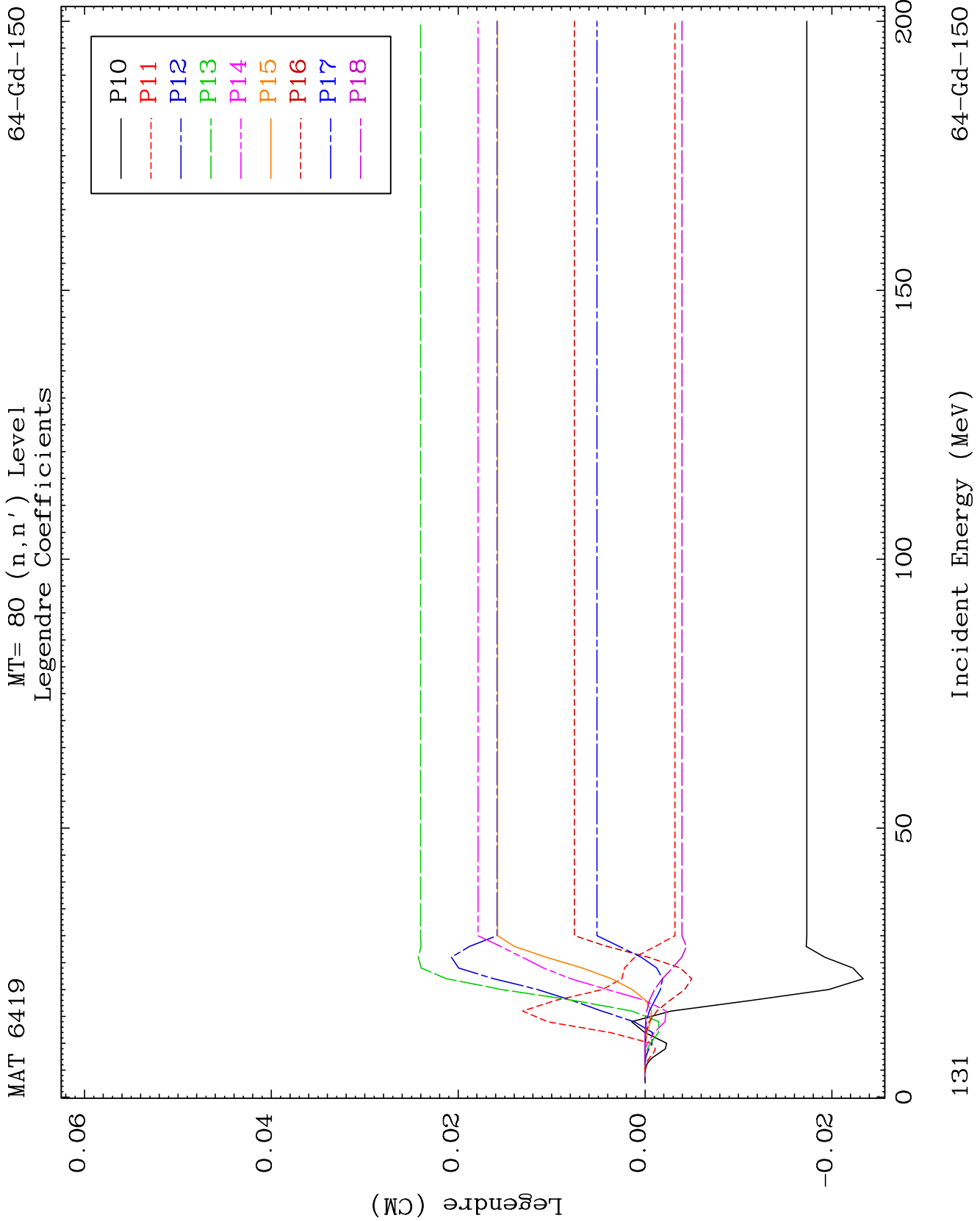


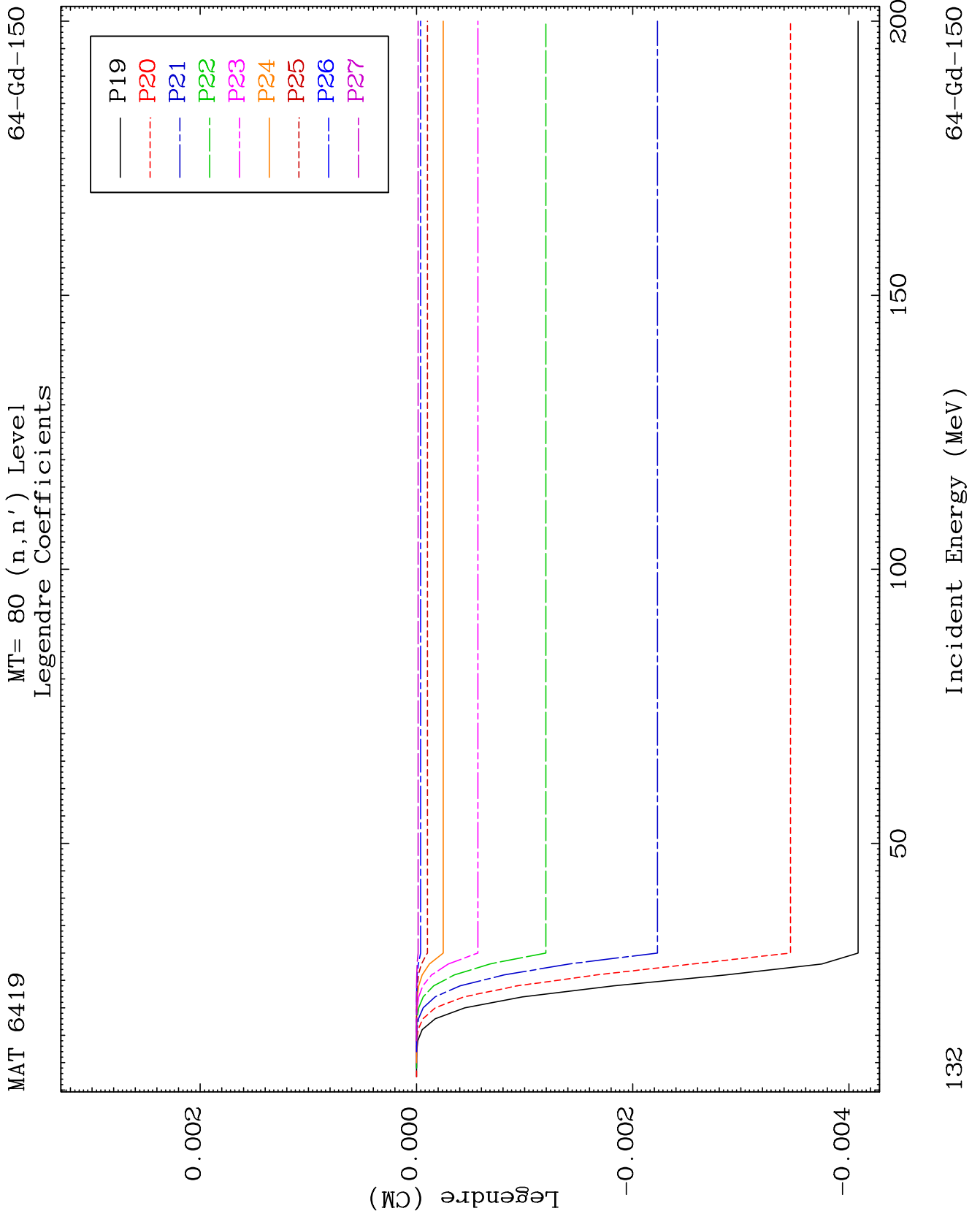
128

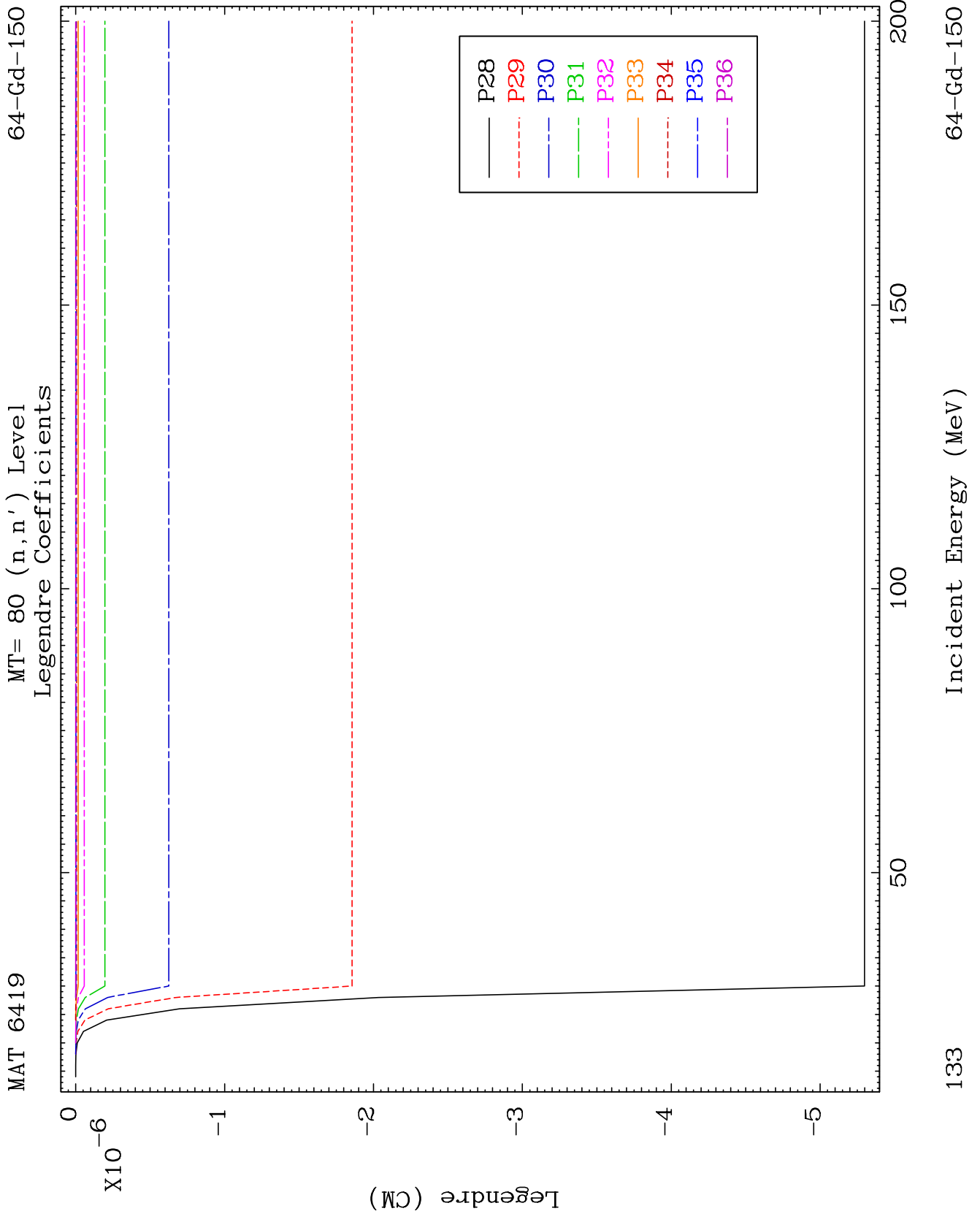
Incident Energy (MeV)

64-Gd-150







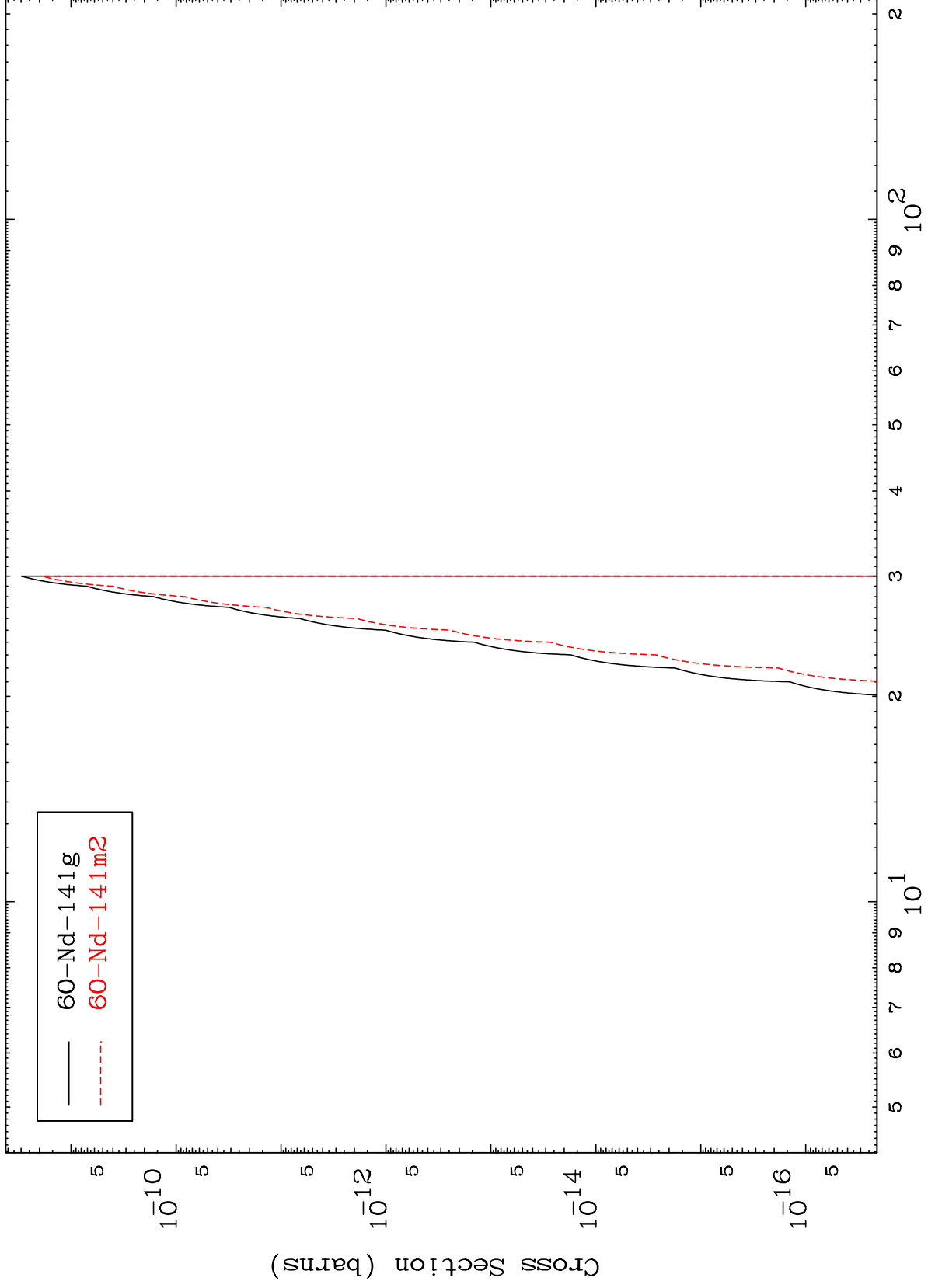


MAT 6419

^{60}Nd 2α

^{64}Gd -150

Radionuclide Production Cross Section



134

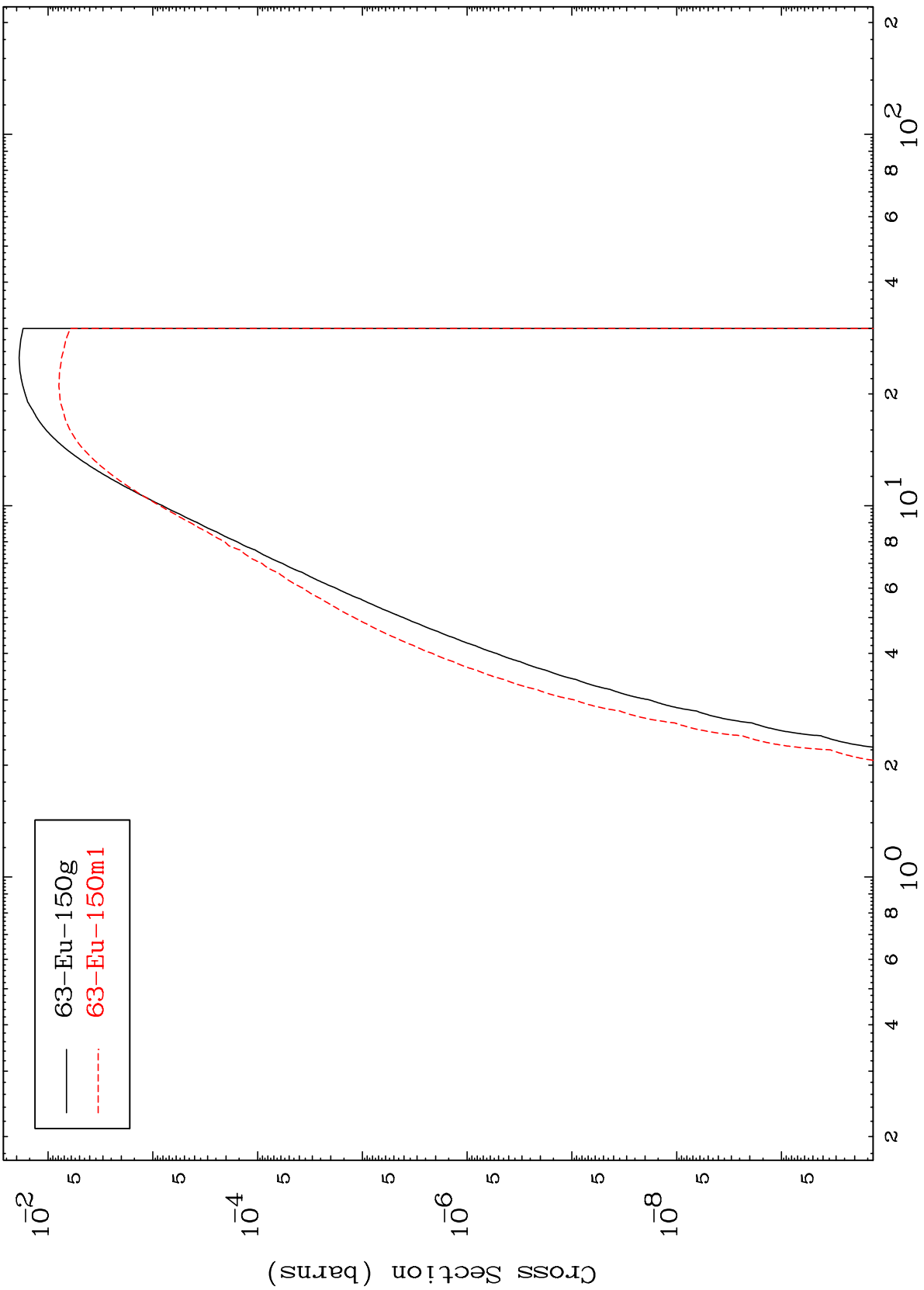
Incident Energy (MeV)

^{64}Gd -150

MAT 6419

64-Gd-150

(n,p)
Radionuclide Production Cross Section



— 63-Eu-150g
- - - 63-Eu-150m1

135

Incident Energy (MeV)

64-Gd-150