

Program EVALPLOT
(Version 2021-1)

by

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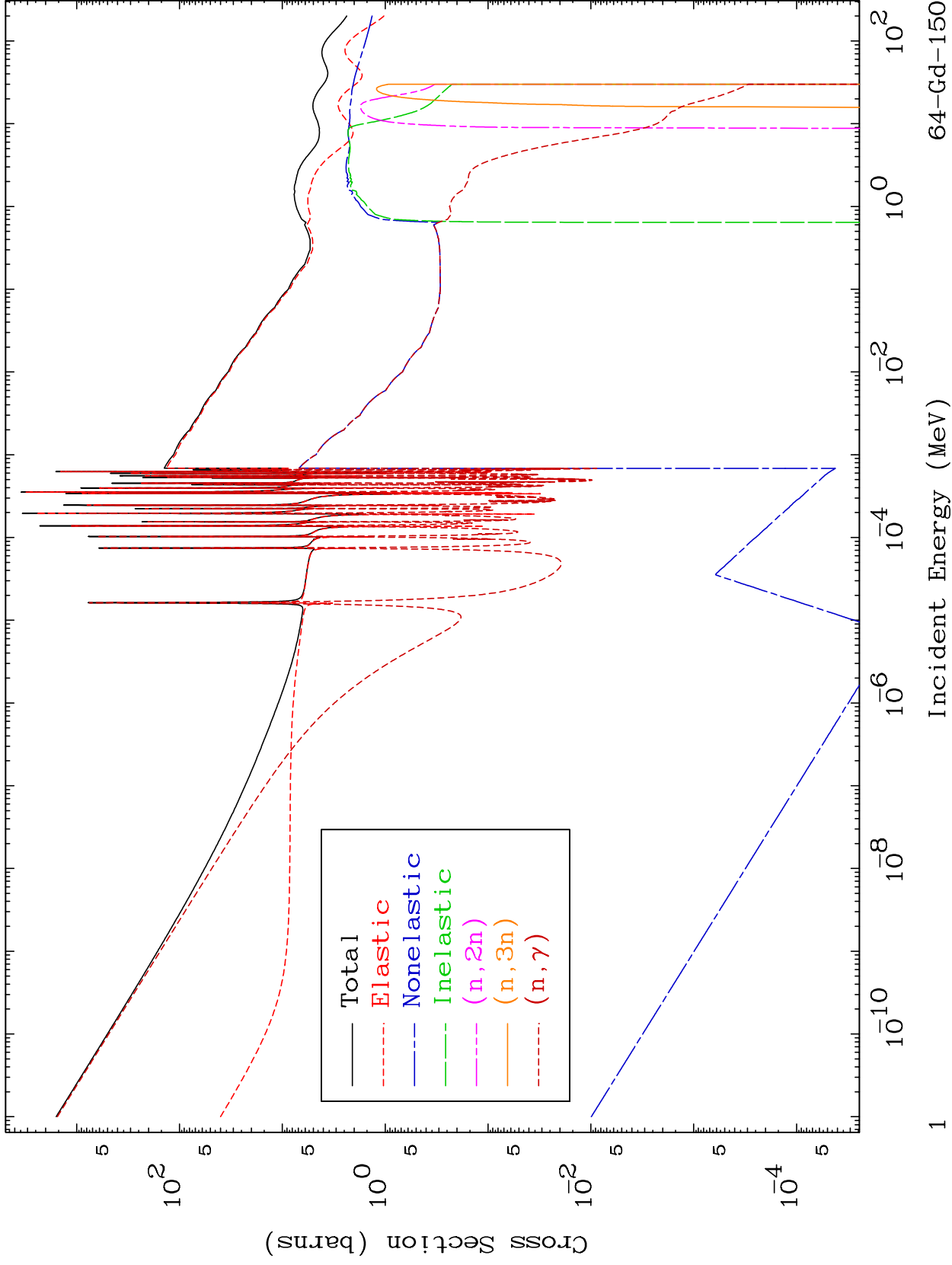
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6419

Neutron Major
293 Kelvin Cross Sections

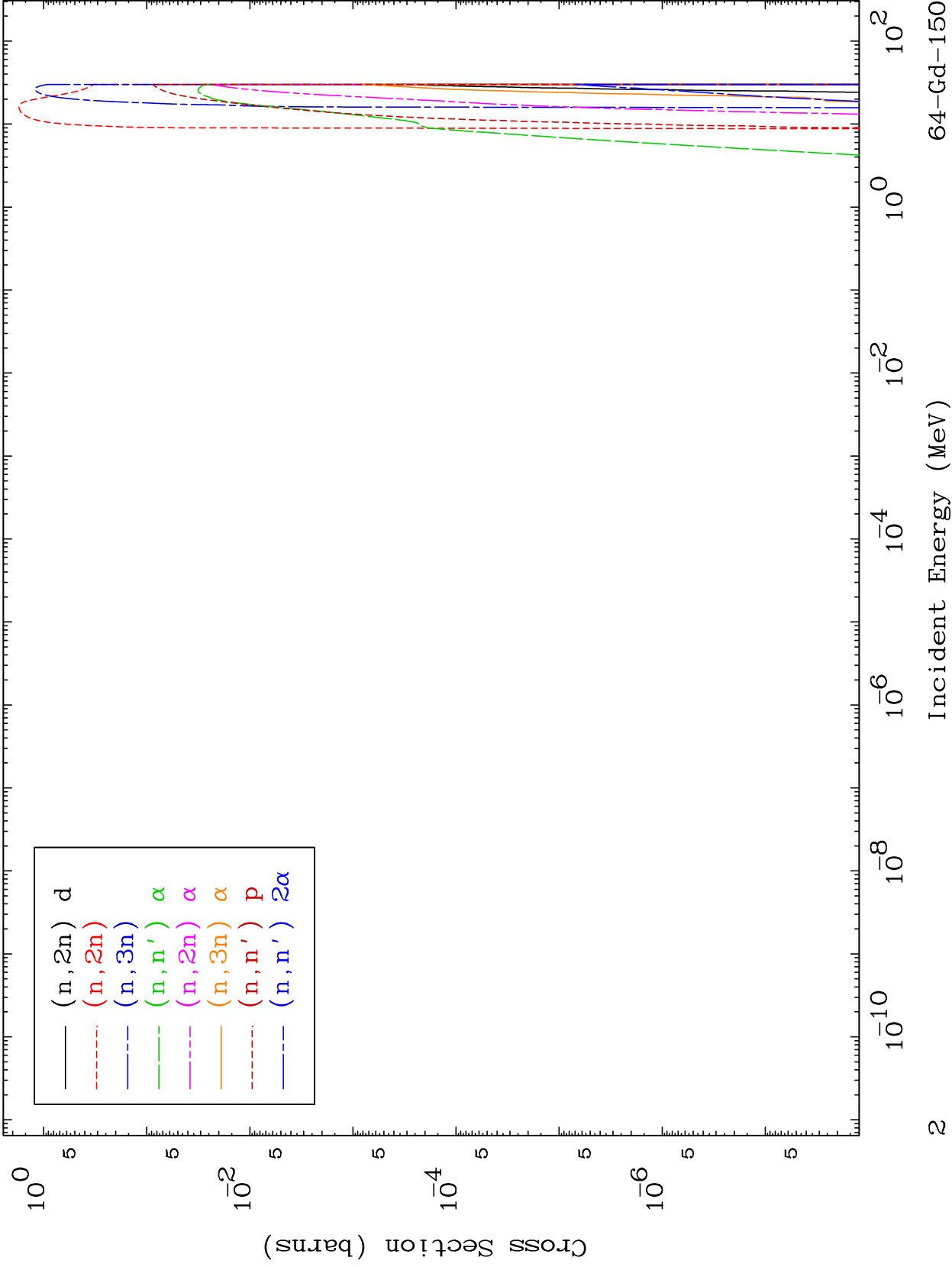
64-Gd-150



MAT 6419

Neutron Absorption
293 Kelvin Cross Sections

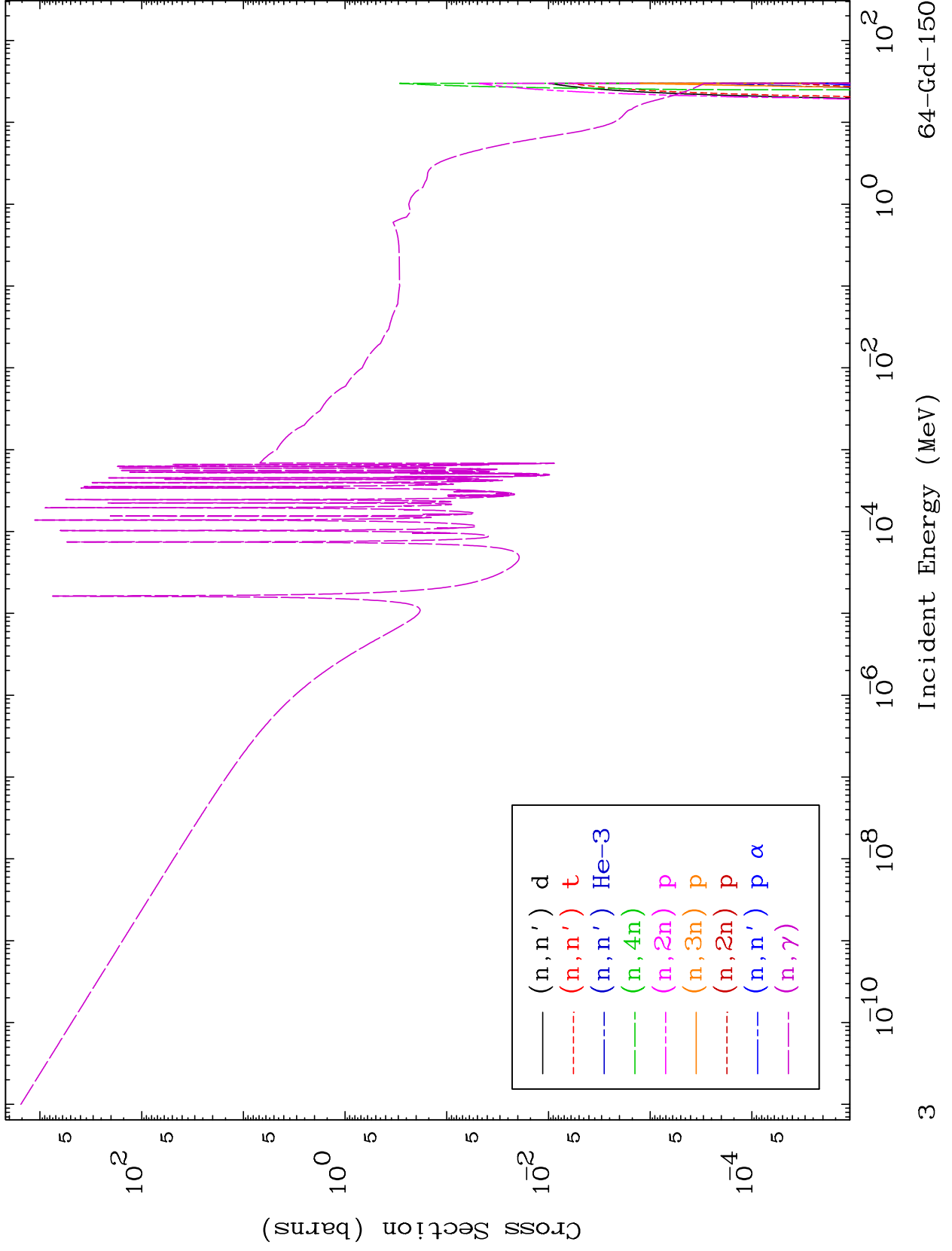
64-Gd-150



MAT 6419

Neutron Absorption
293 Kelvin Cross Sections

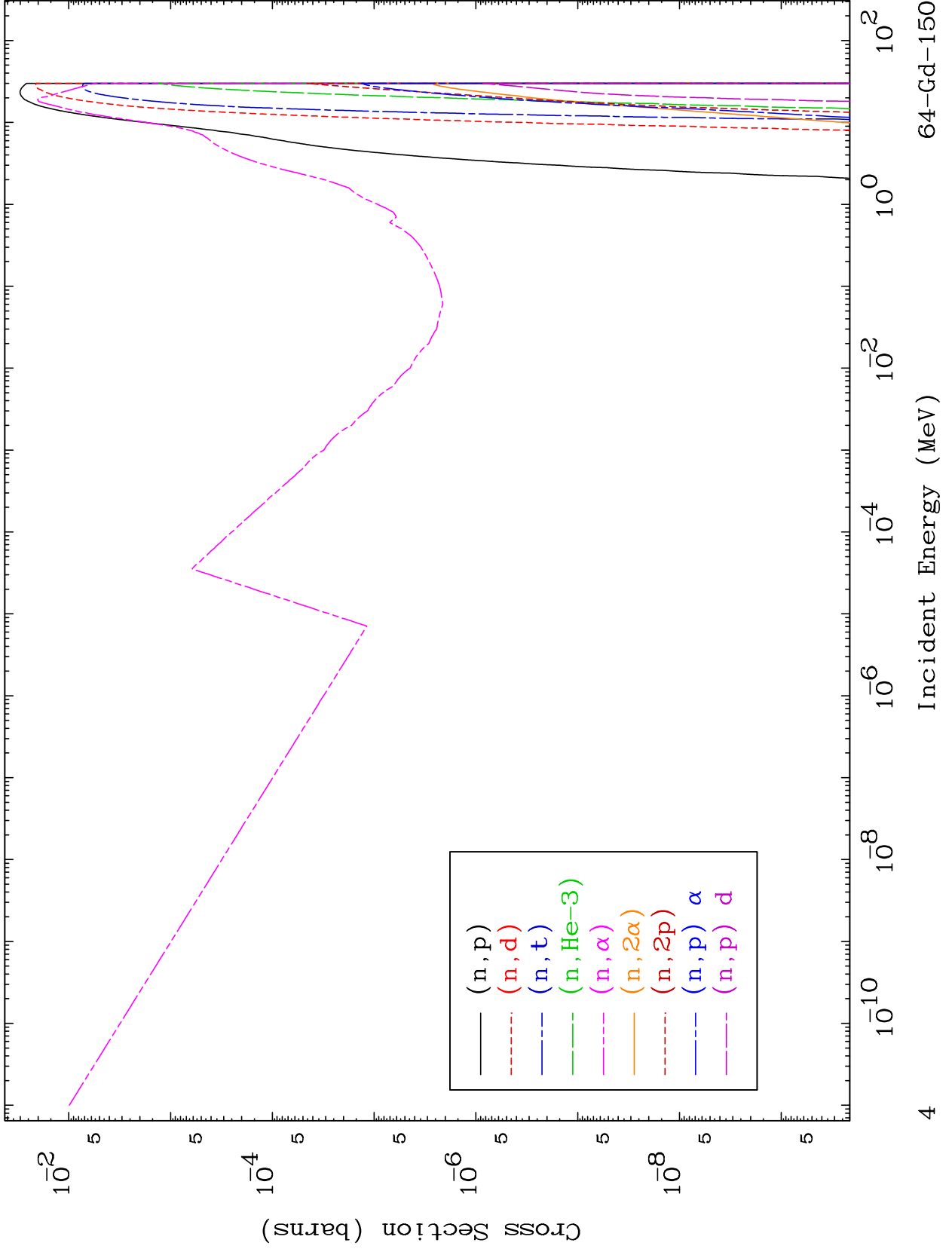
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MAT 6419

Neutron Absorption
293 Kelvin Cross Sections

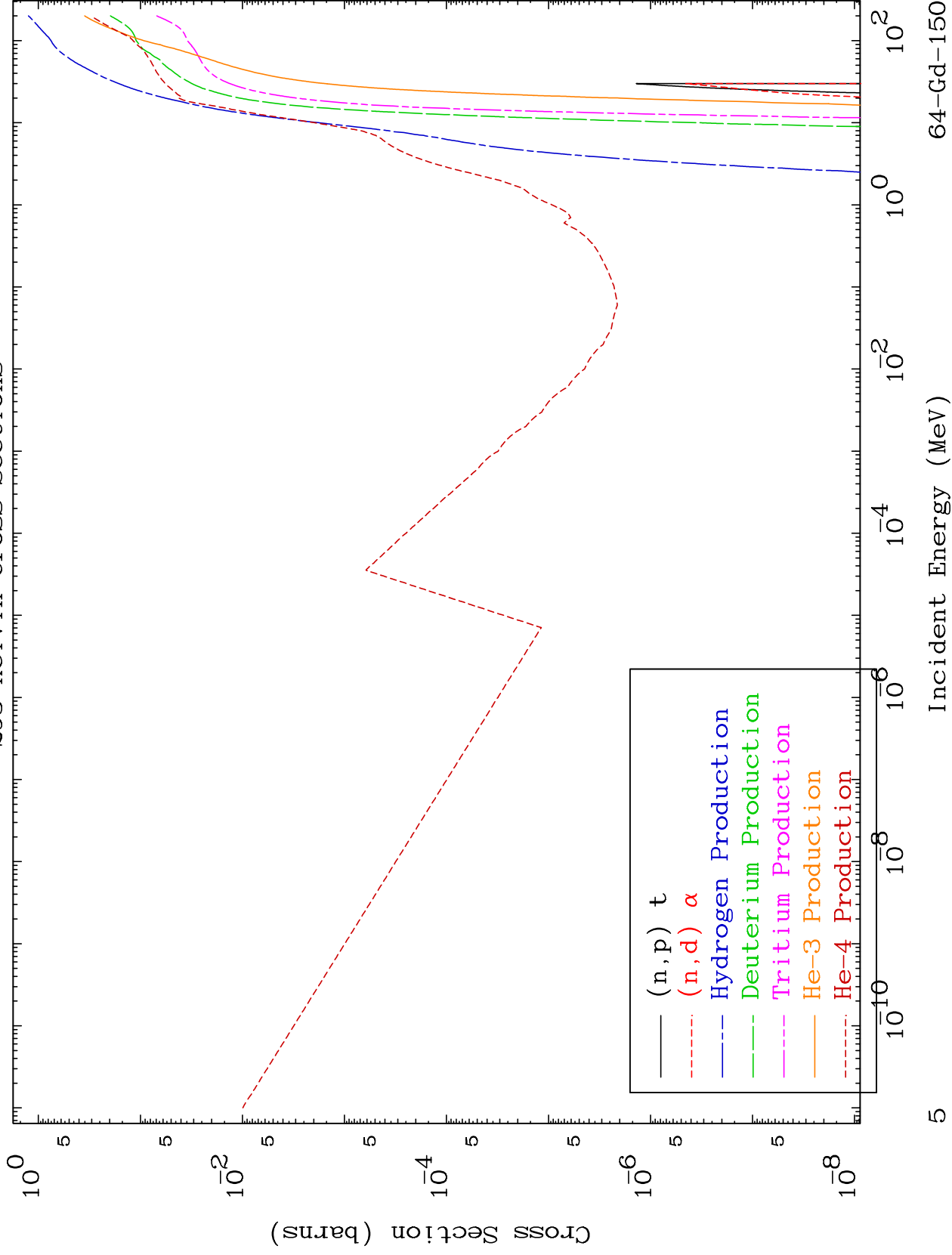
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MAT 6419

Neutron Absorption
293 Kelvin Cross Sections

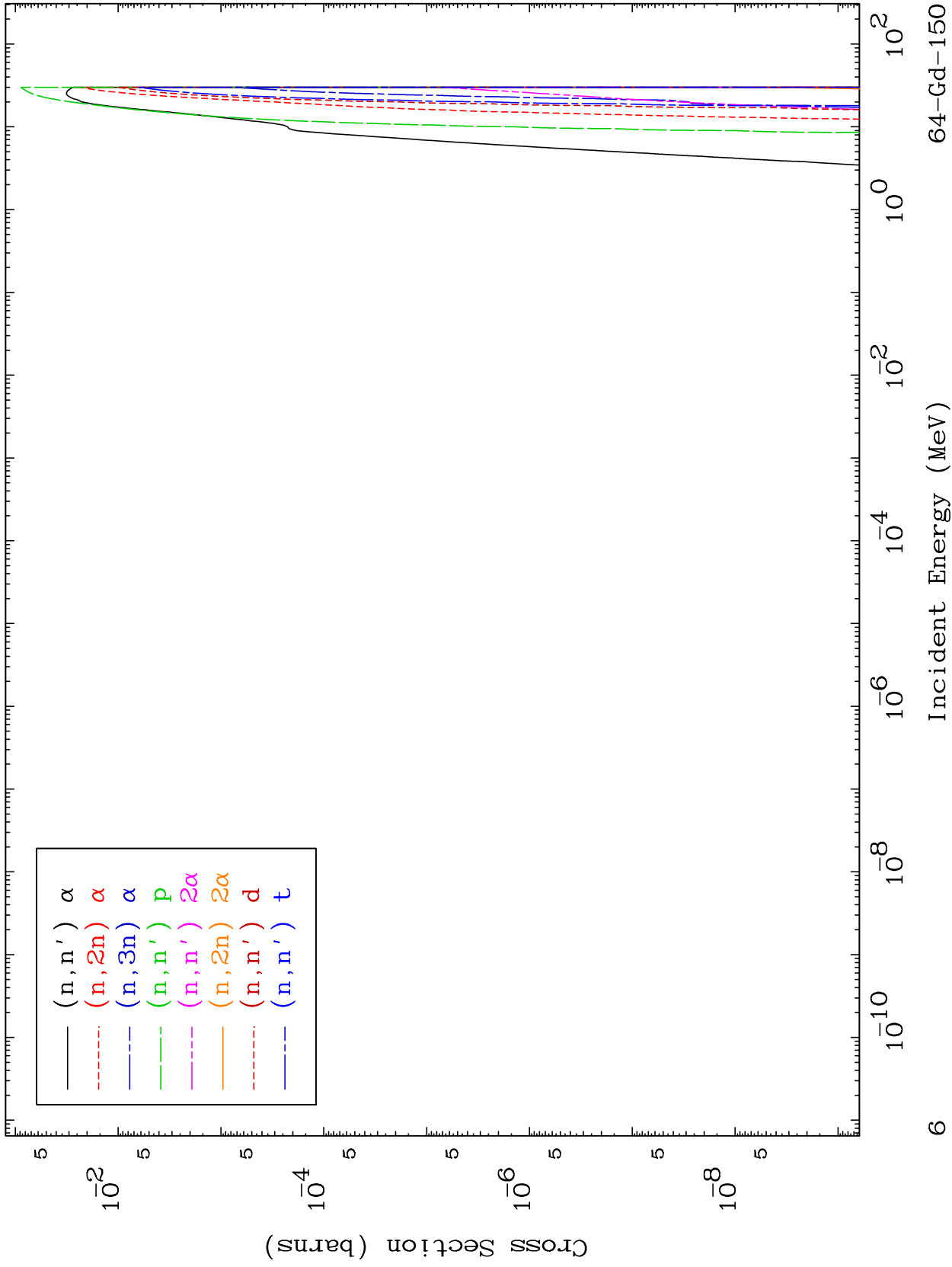
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MAT 6419

Charged Particle
293 Kelvin Cross Sections

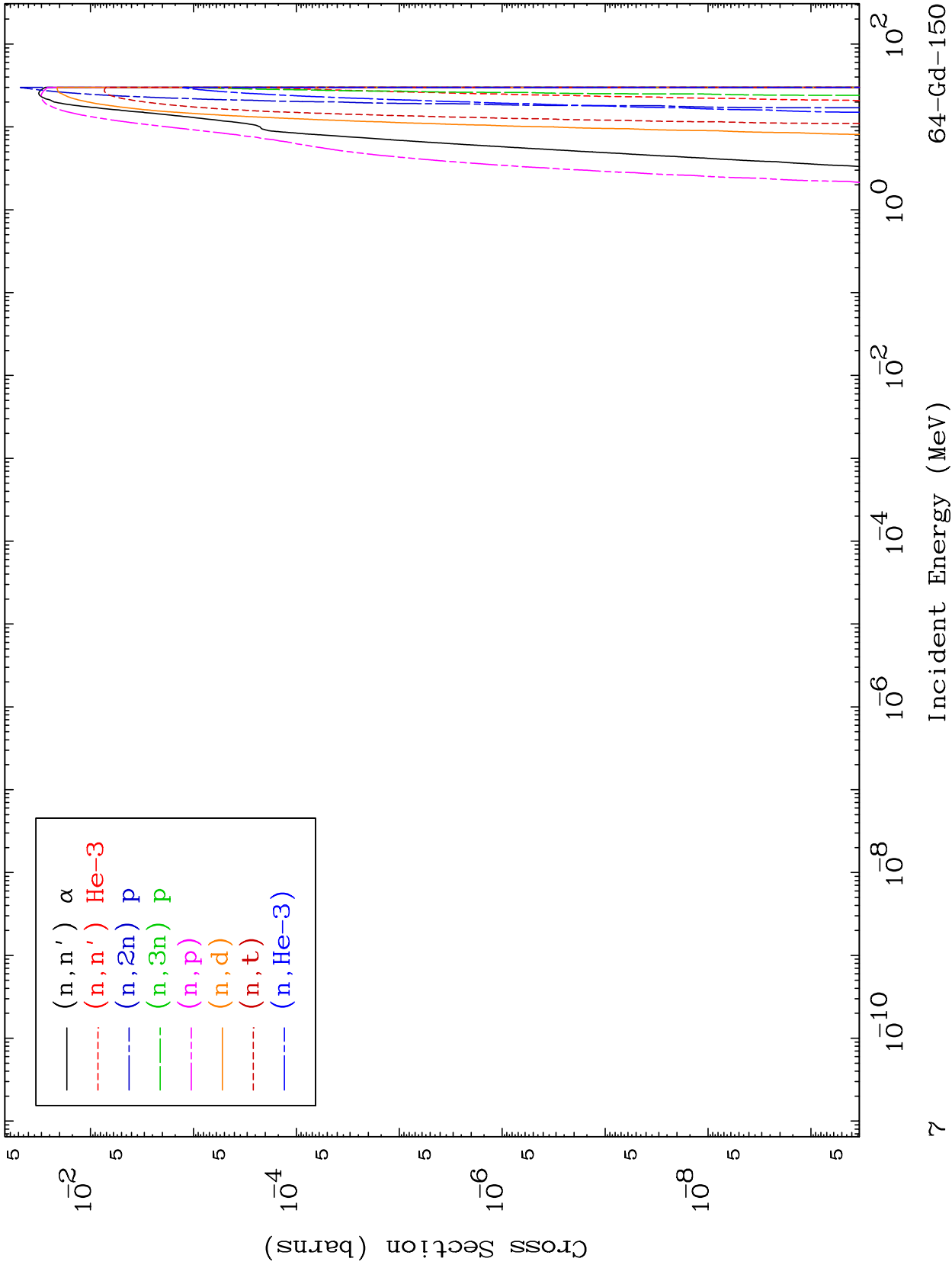
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MAT 6419

Charged Particle
293 Kelvin Cross Sections

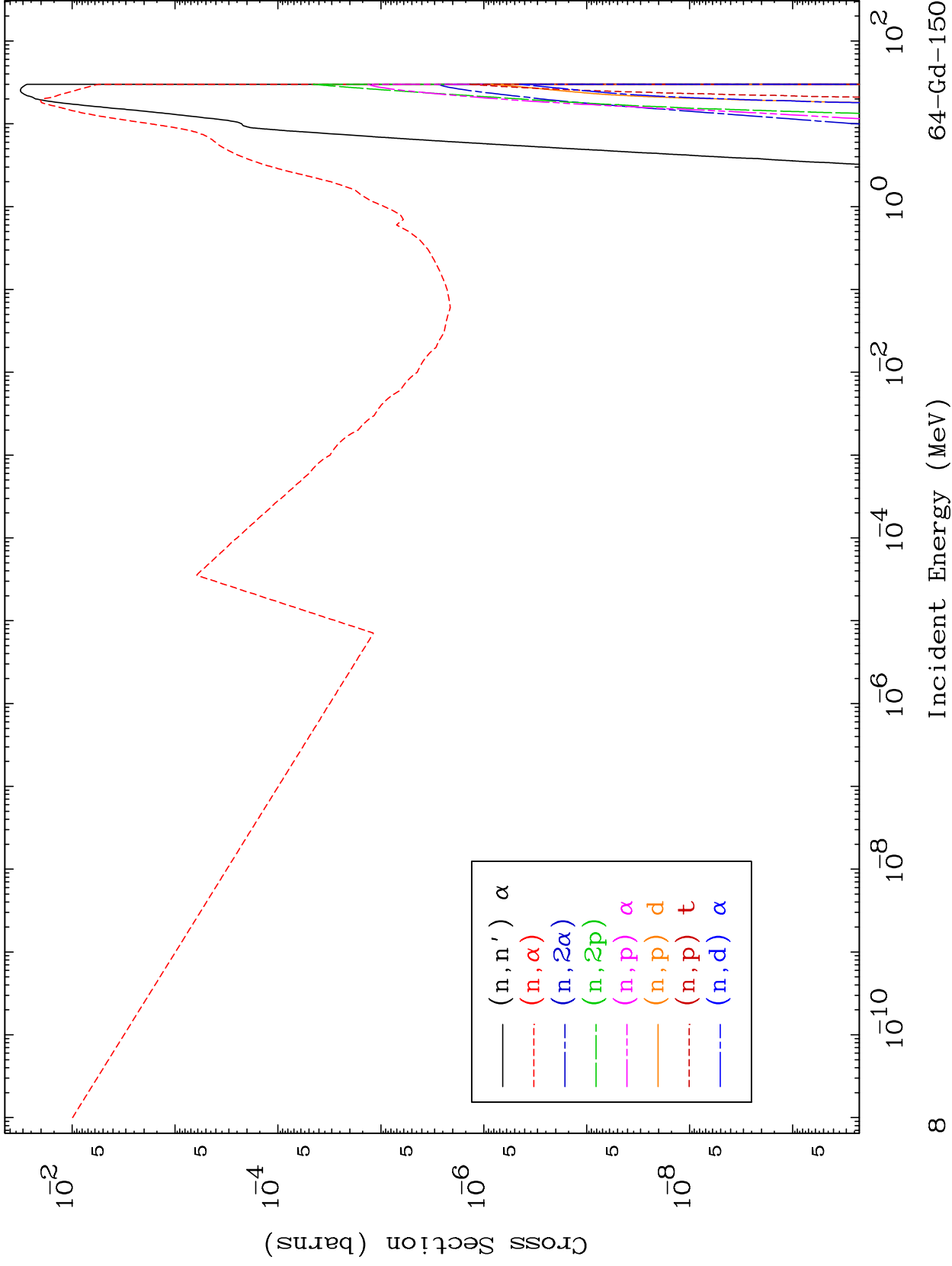
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MAT 6419

Charged Particle
293 Kelvin Cross Sections

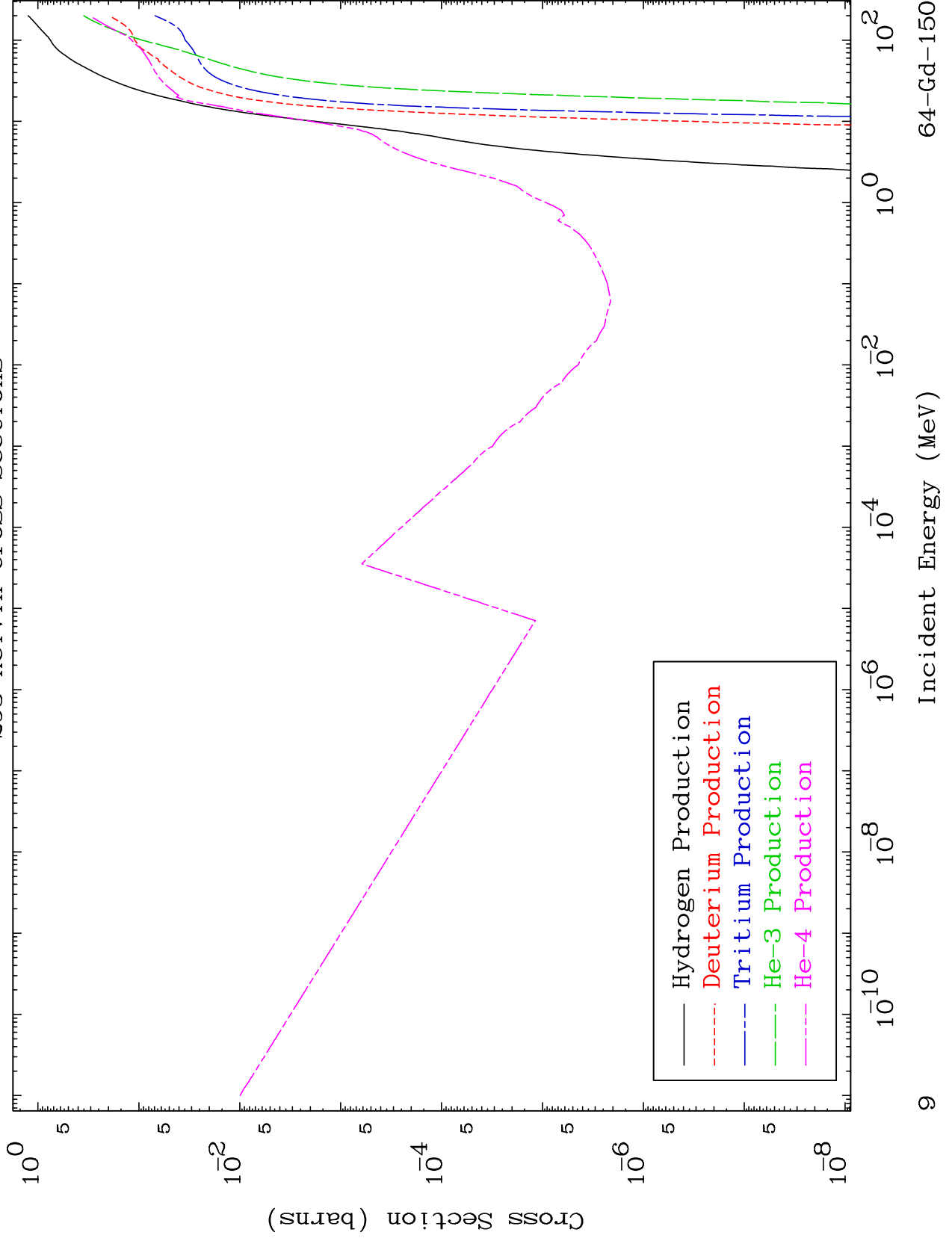
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MAT 6419

Particle Production
293 Kelvin Cross Sections

64-Gd-150

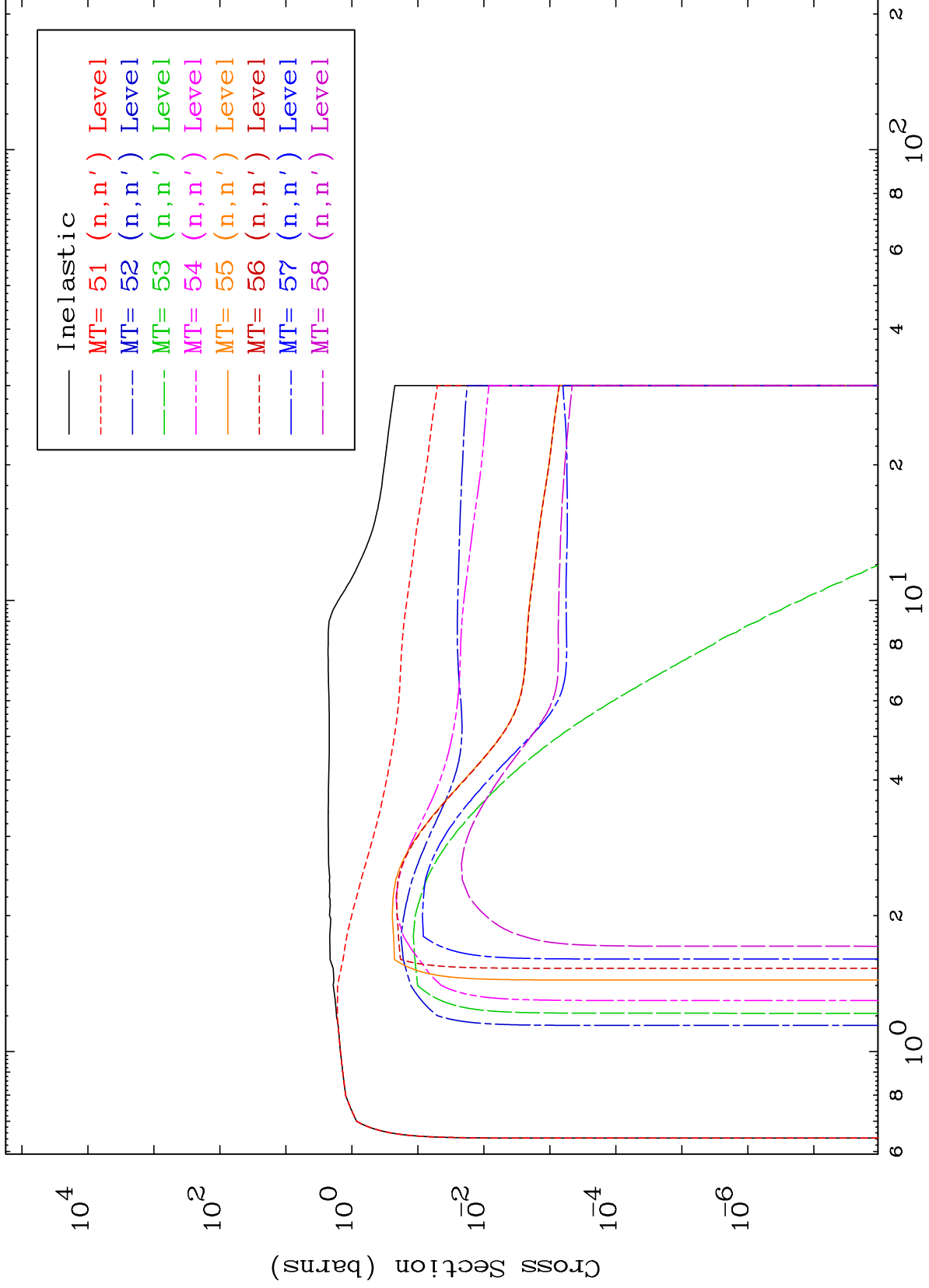


MAT 6419

(n,n') Levels

64-Gd-150

293 Kelvin Cross Sections



10

Incident Energy (MeV)

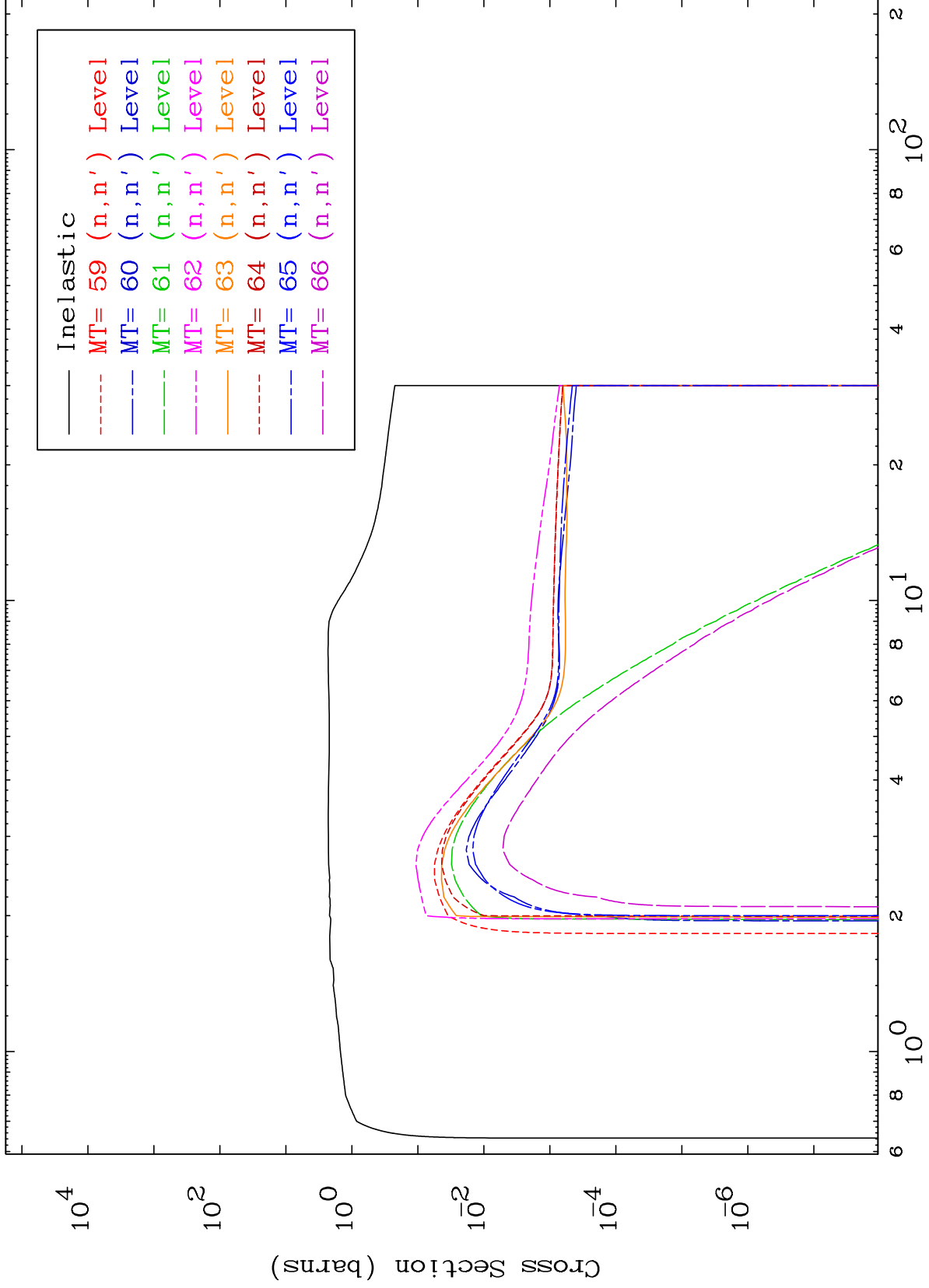
64-Gd-150

MAT 6419

(n,n') Levels

64-Gd-150

293 Kelvin Cross Sections

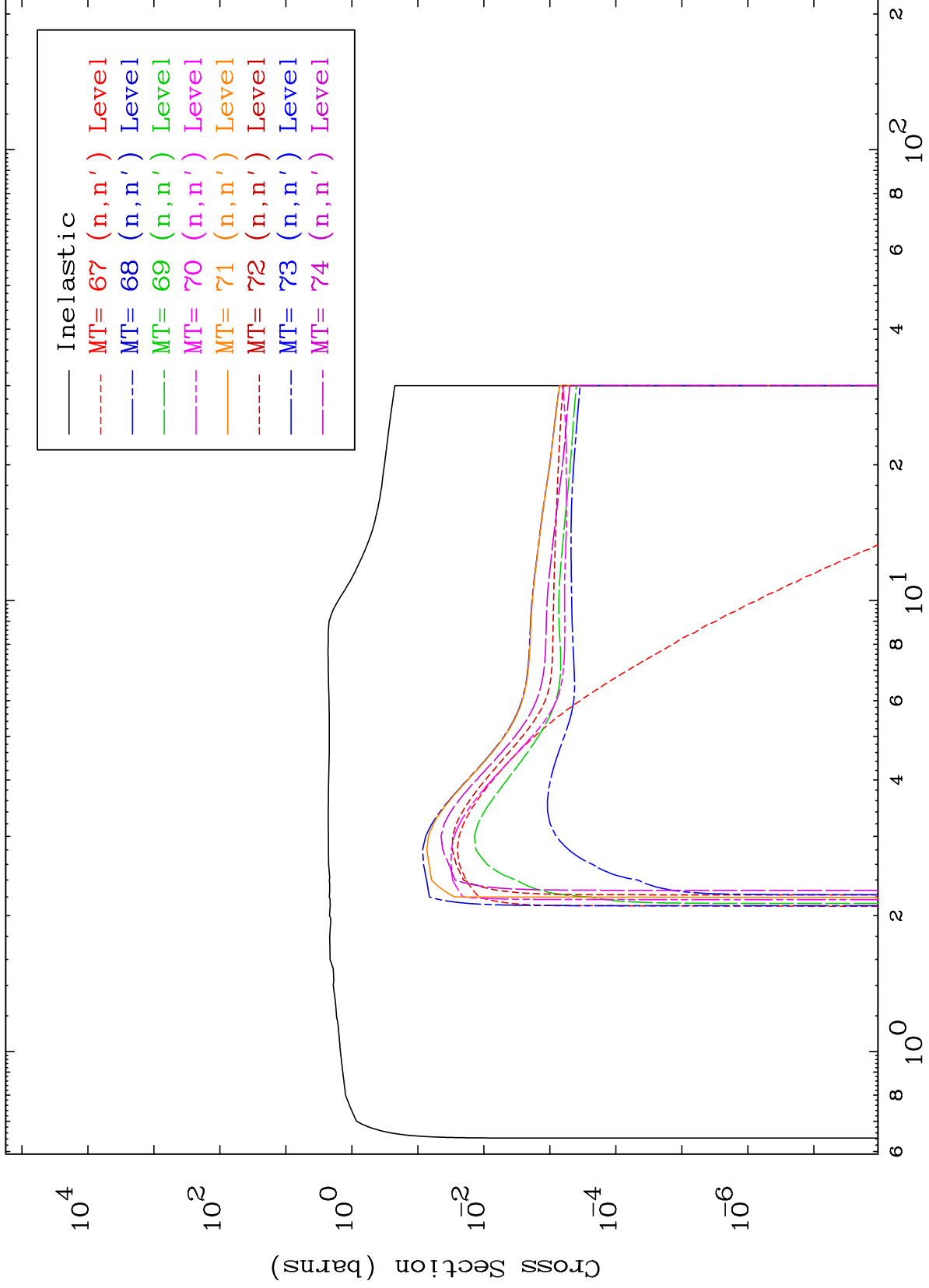


MAT 6419

(n,n') Levels

64-Gd-150

293 Kelvin Cross Sections



12

Incident Energy (MeV)

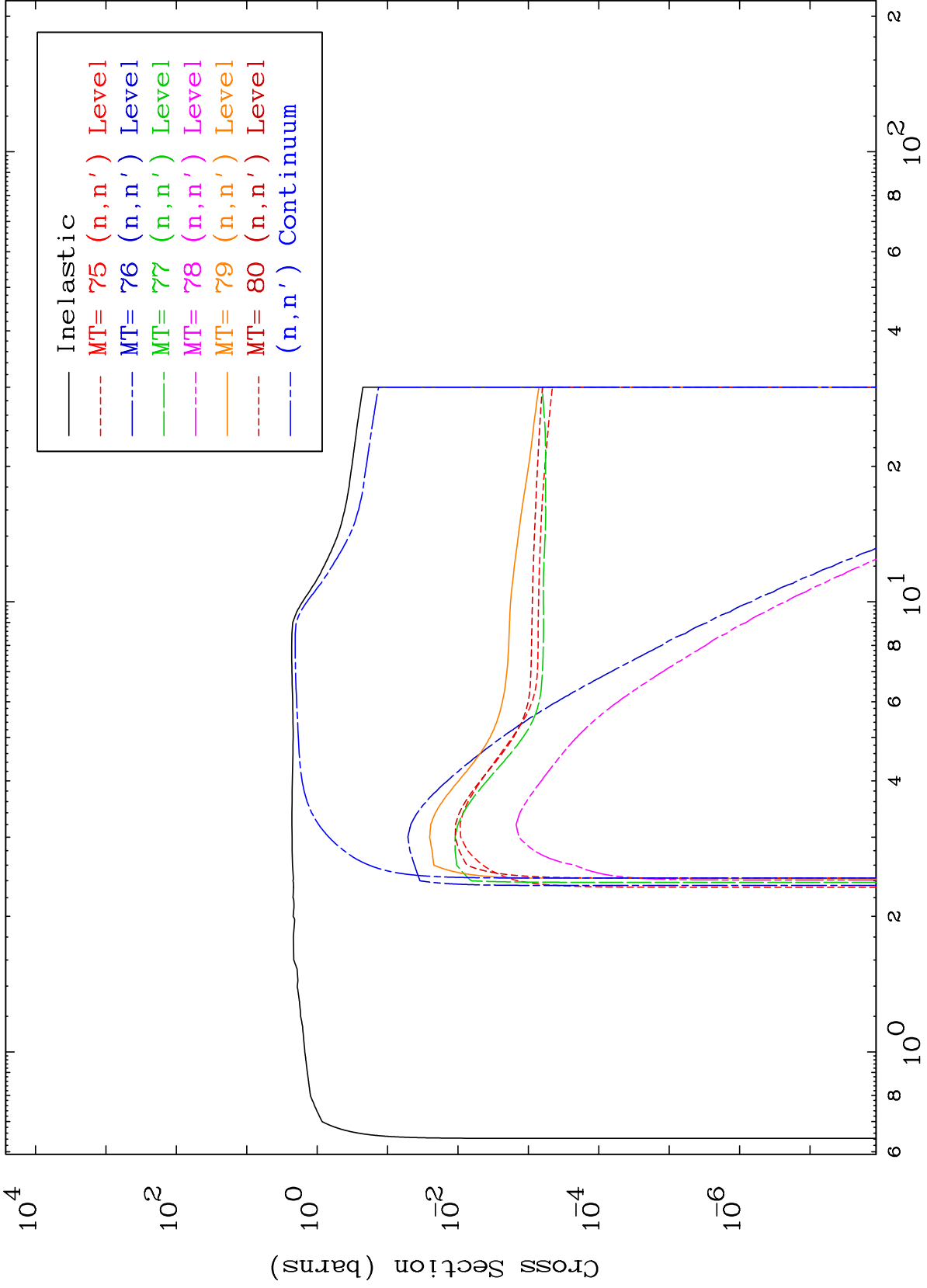
64-Gd-150

MAT 6419

(n,n') Levels

64-Gd-150

293 Kelvin Cross Sections



13

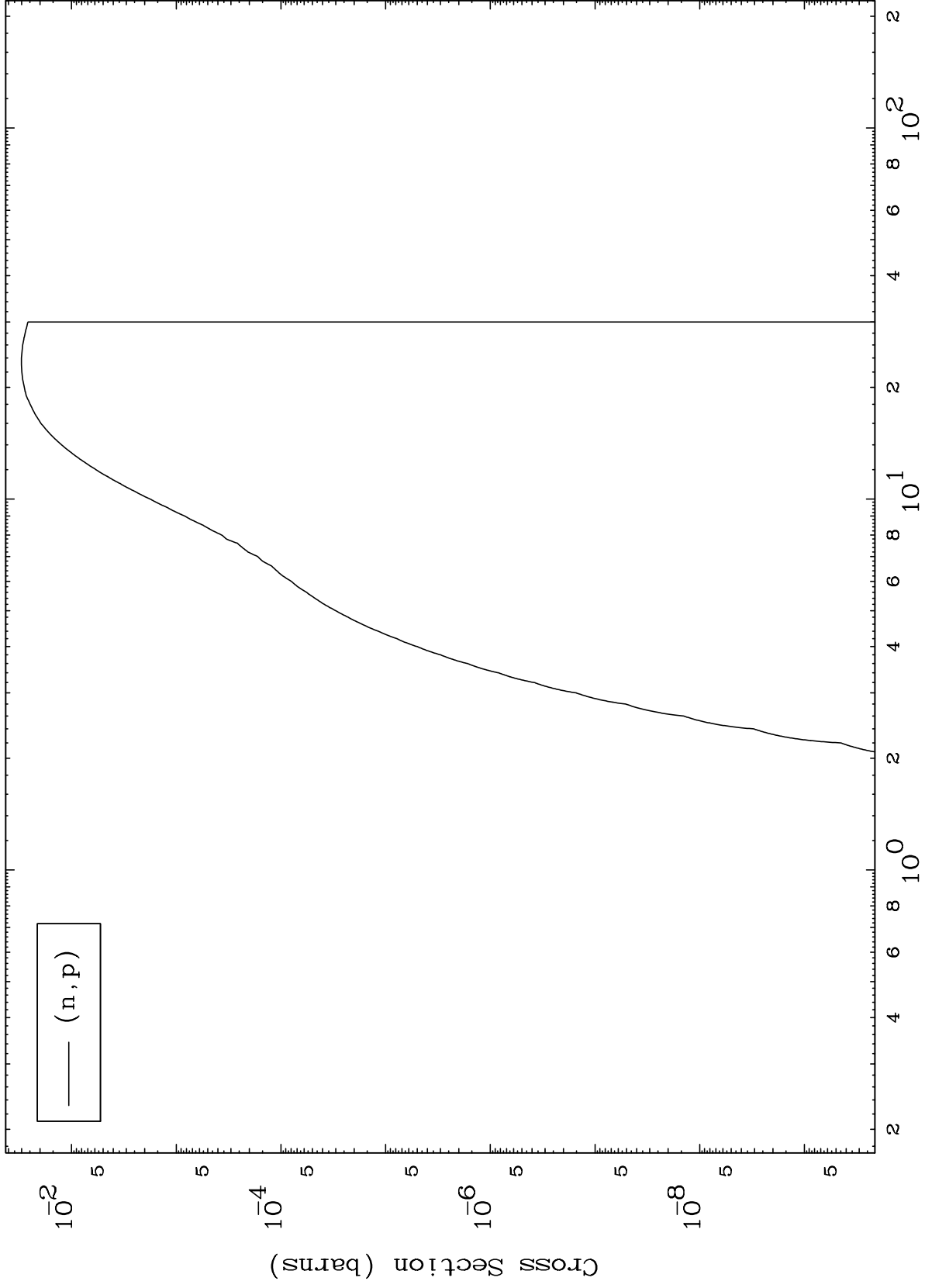
Incident Energy (MeV)

64-Gd-150

MAT 6419

(n,p) Levels
293 Kelvin Cross Sections

64-Gd-150



14

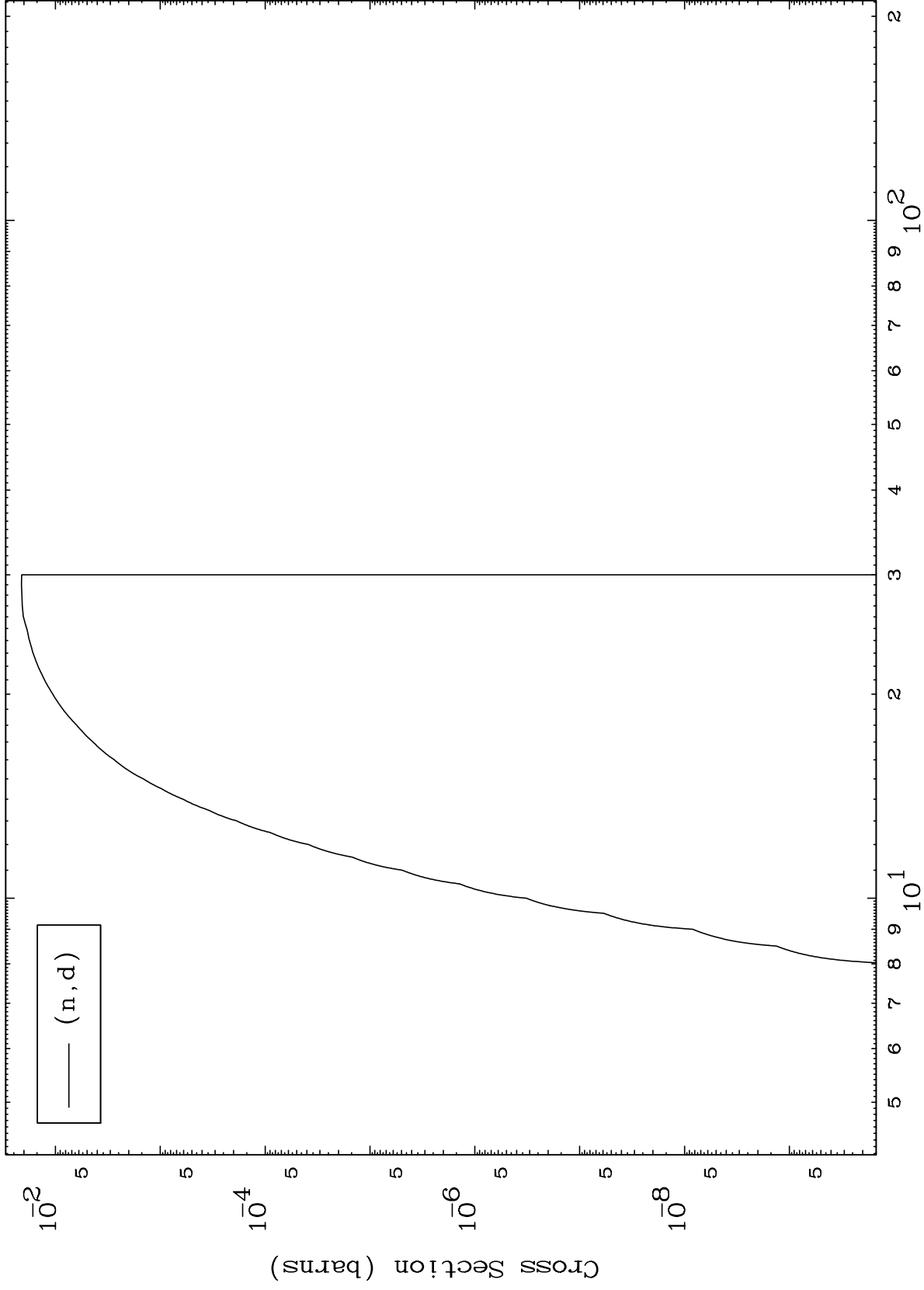
Incident Energy (MeV)

64-Gd-150

MAT 6419

(n,d) Levels
293 Kelvin Cross Sections

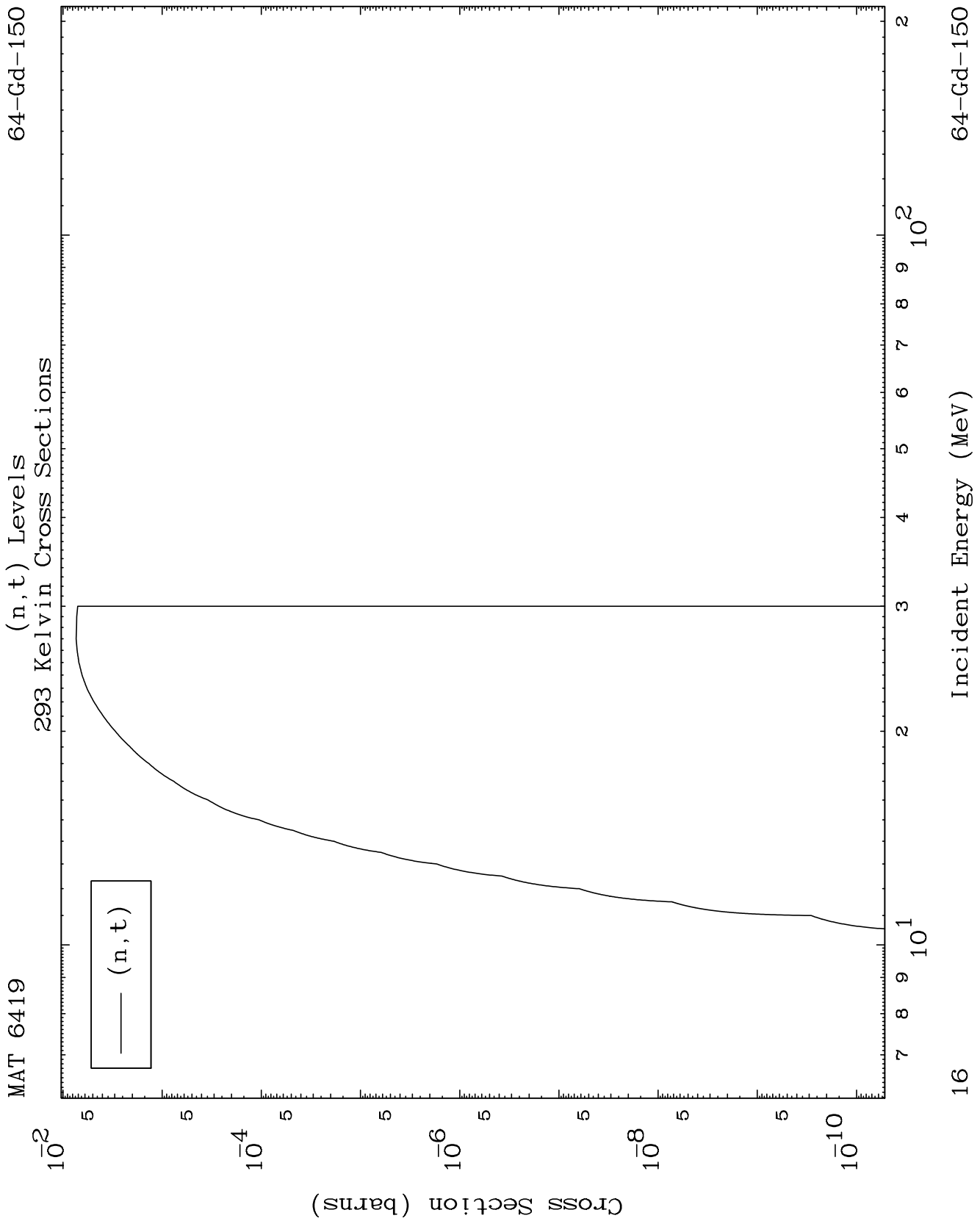
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15

Incident Energy (MeV)

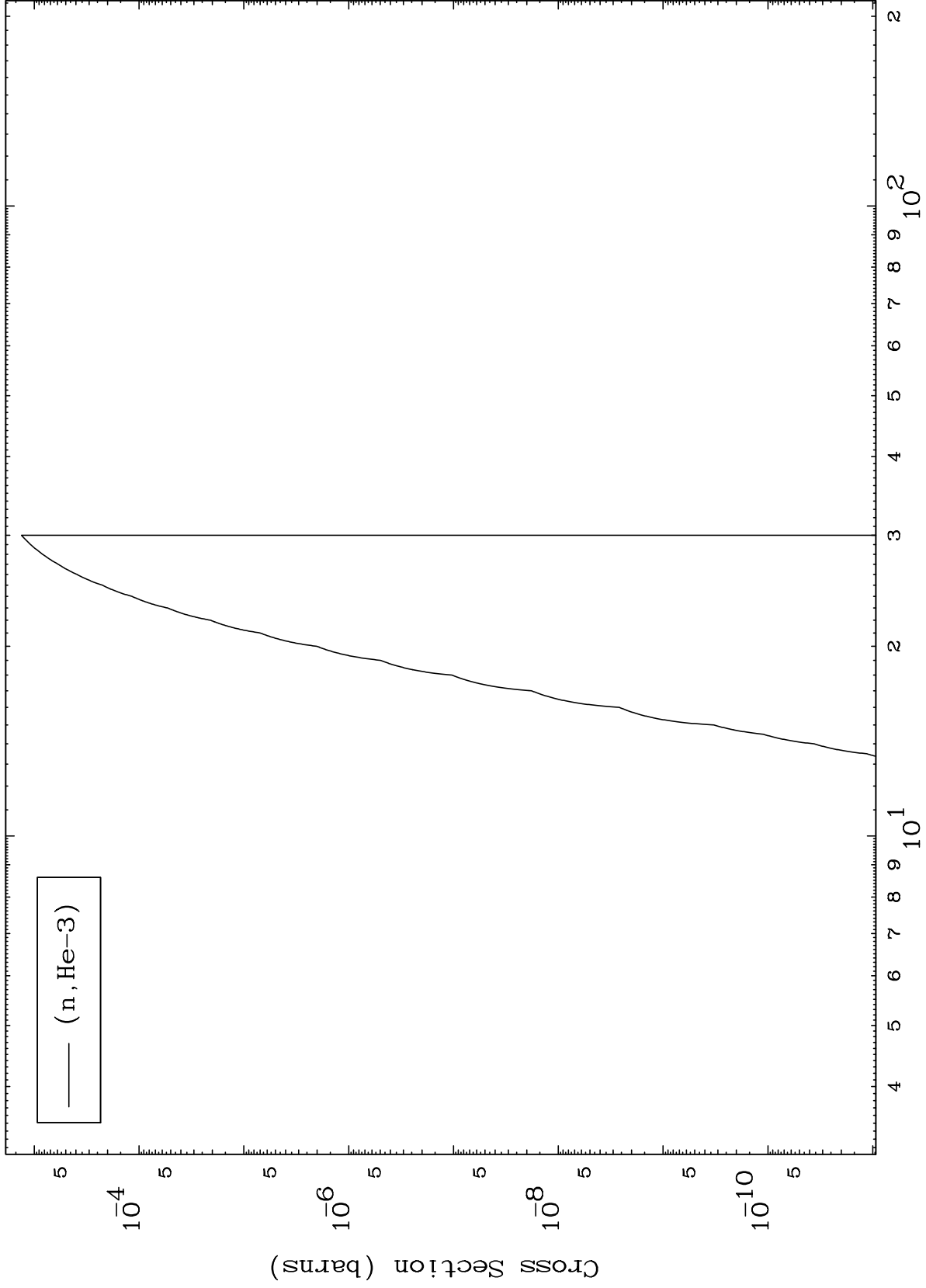
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MAT 6419

(n,He3) Levels
293 Kelvin Cross Sections

64-Gd-150



17

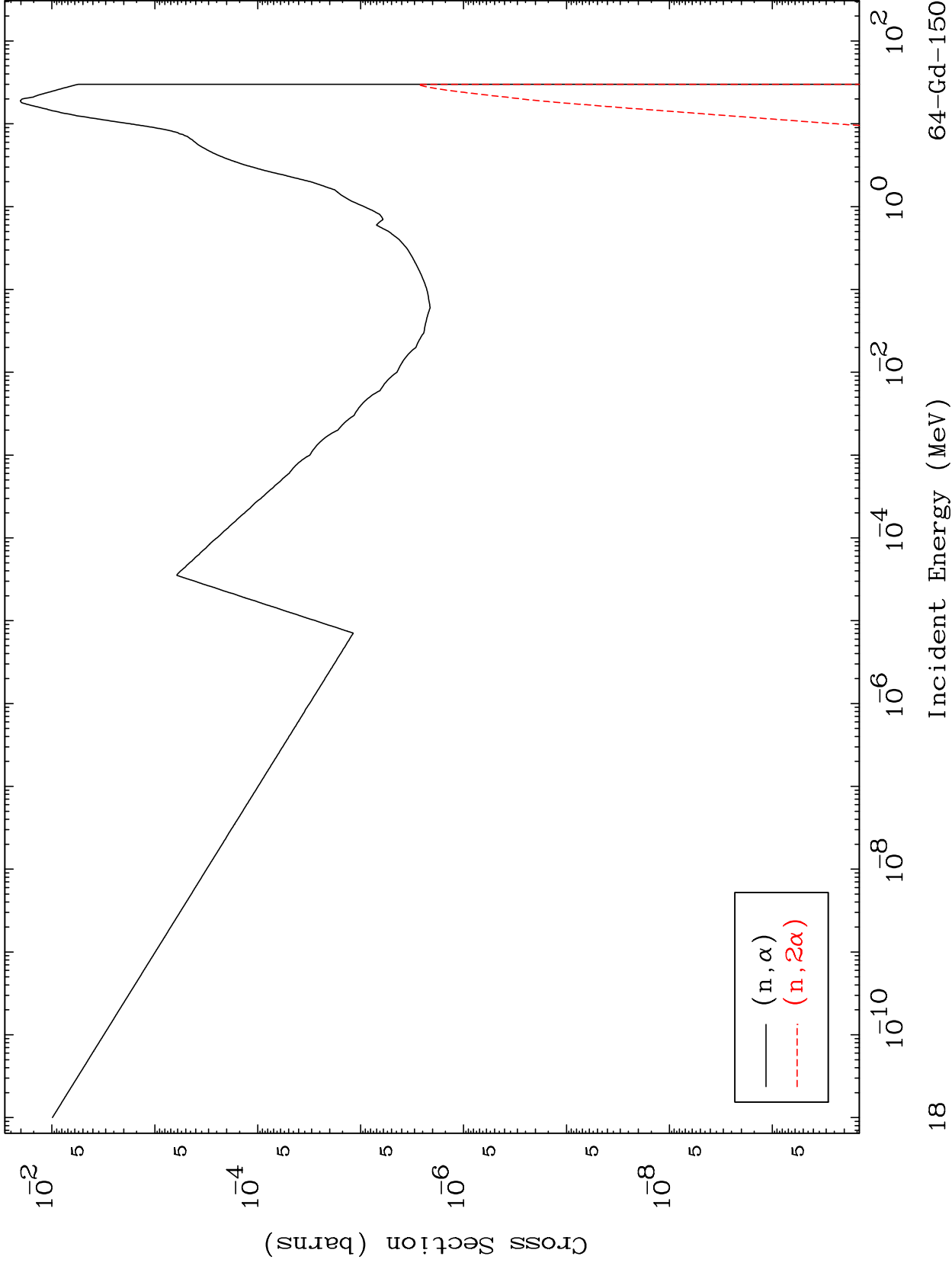
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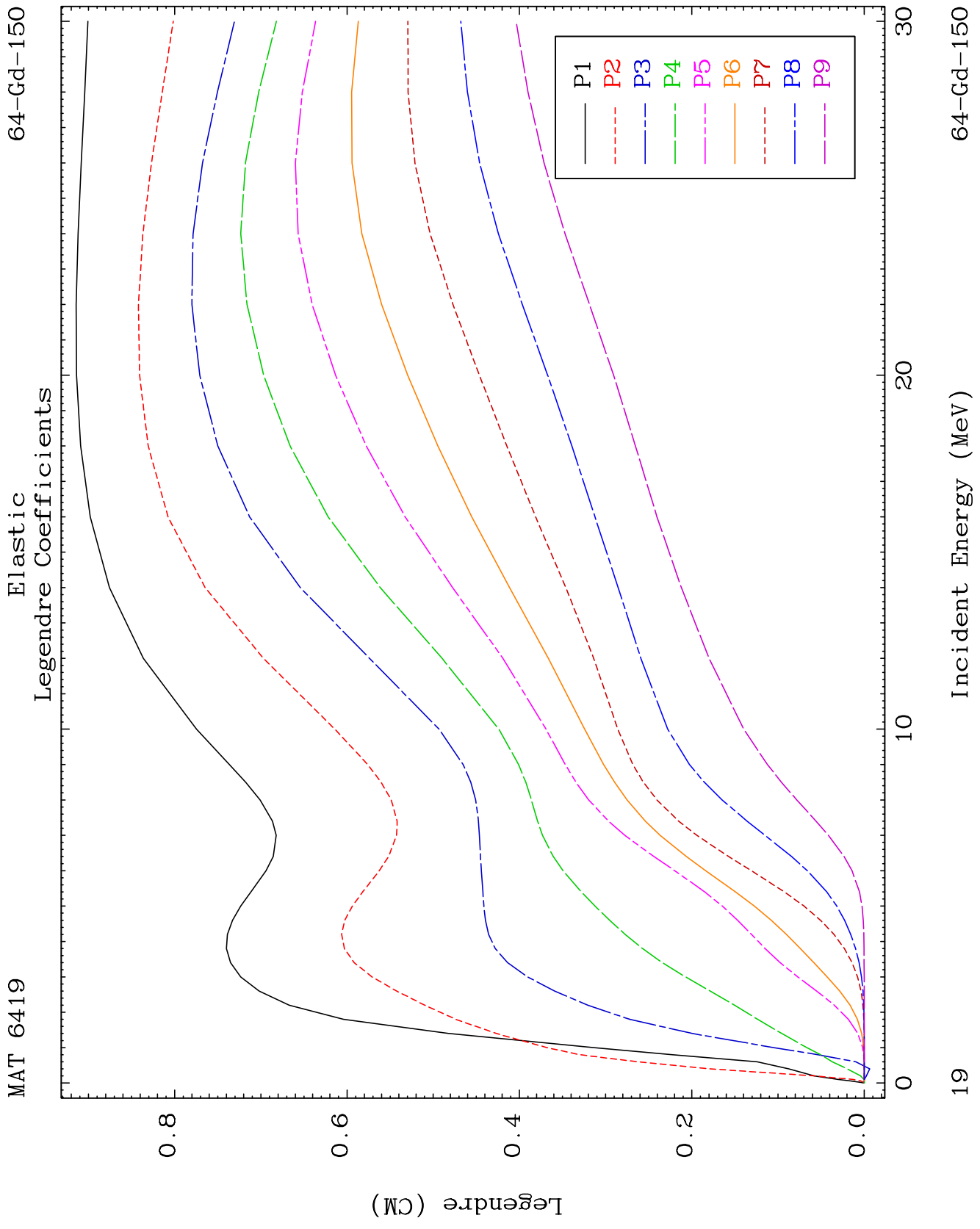
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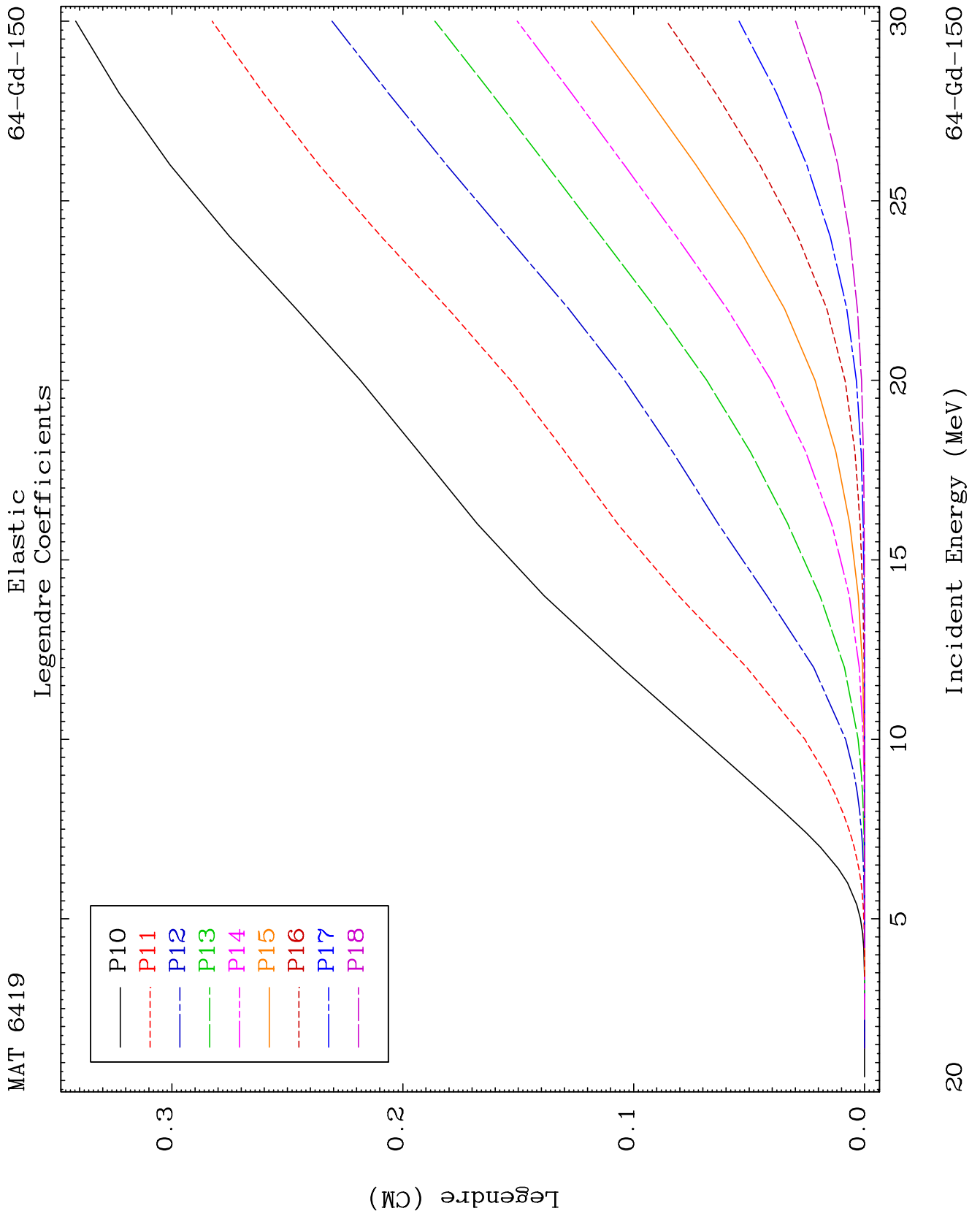
MAT 6419

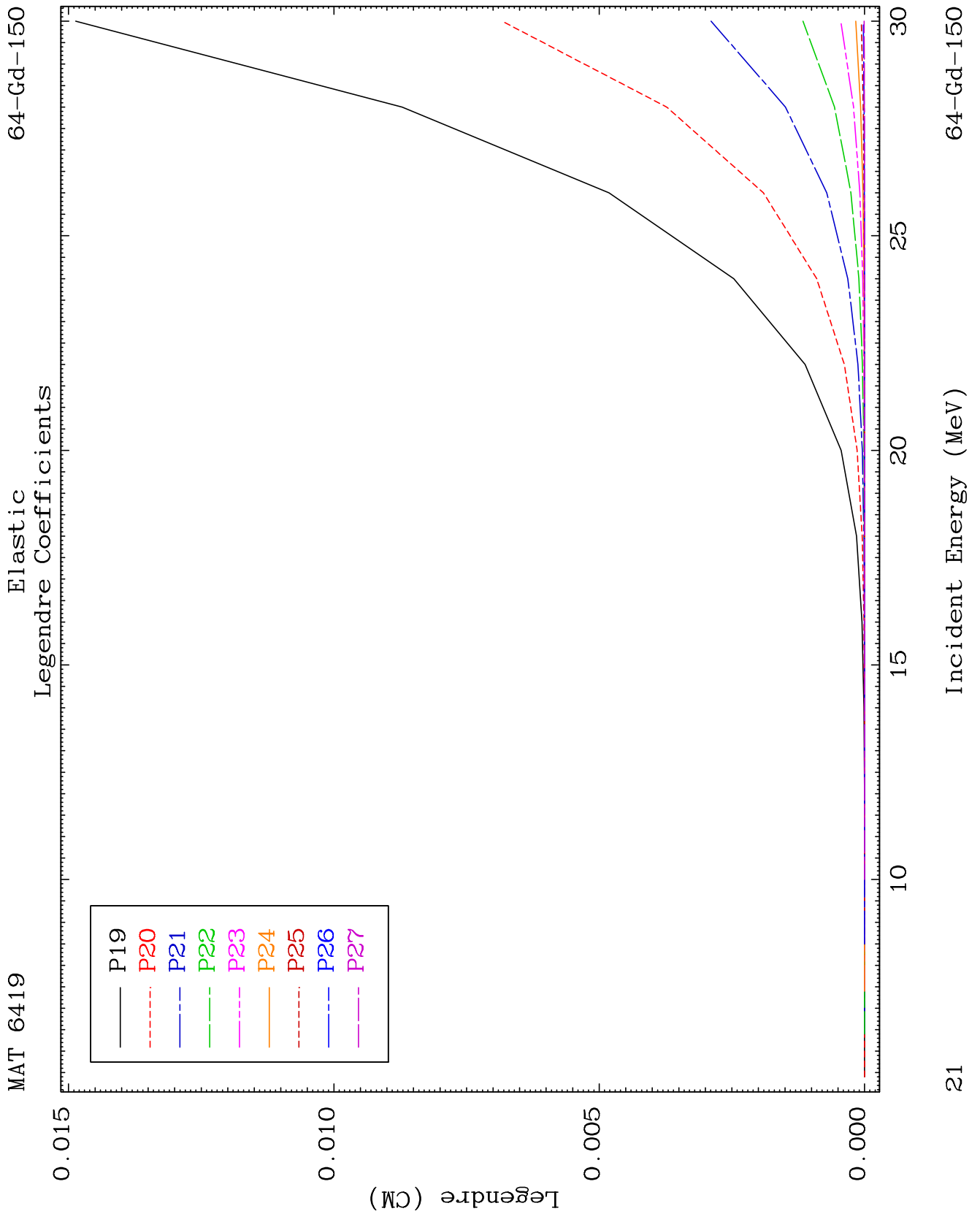
(n,α) Levels
293 Kelvin Cross Sections

64-Gd-150





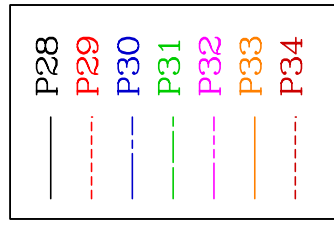




MAT 6419

Elastic
Legendre Coefficients

64-Gd-150



$\times 10^{-6}$
2.0
1.5

Legendre (CM)

1.0

0.5

0.0

15

20

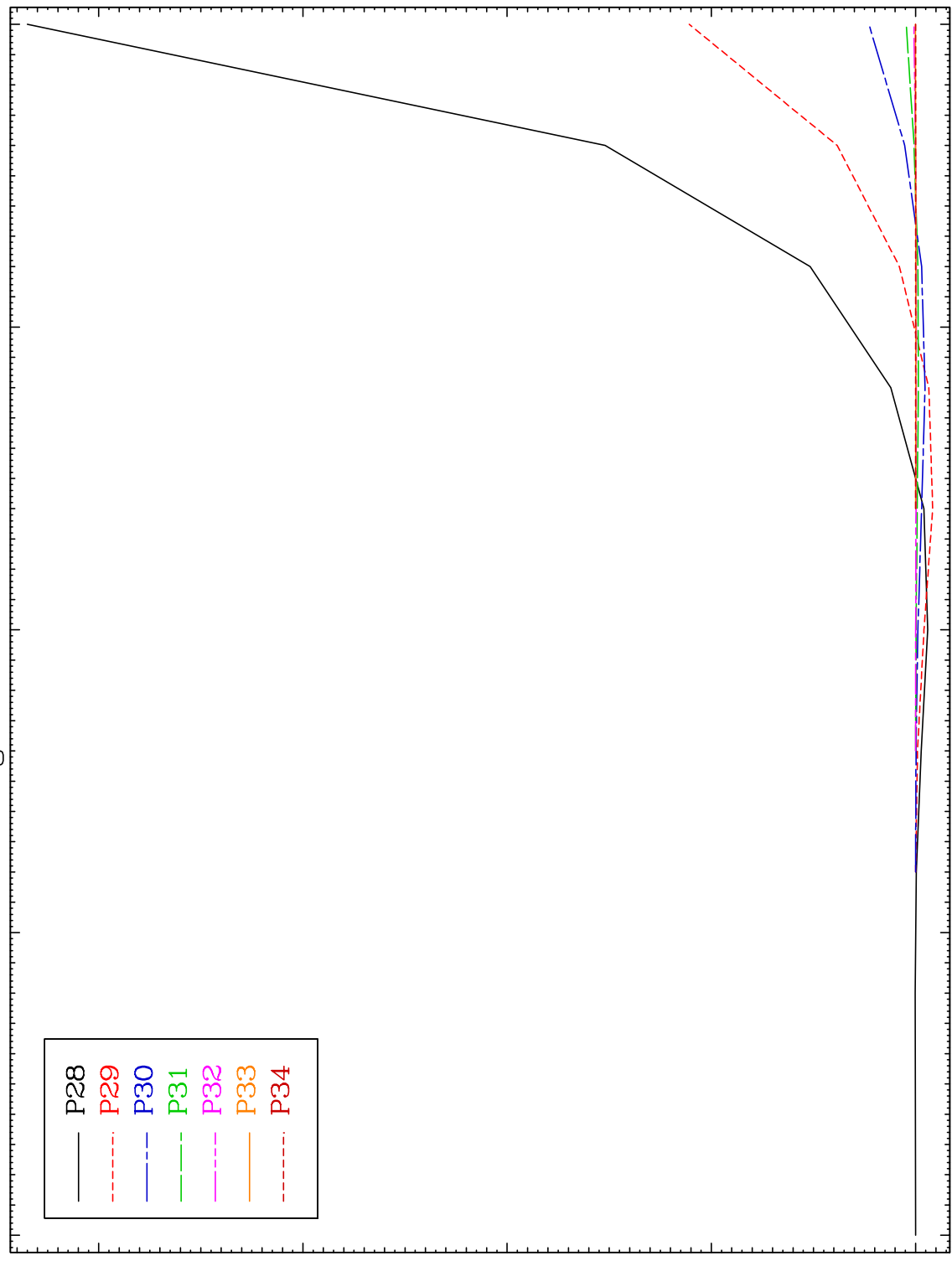
25

30

22

Incident Energy (MeV)

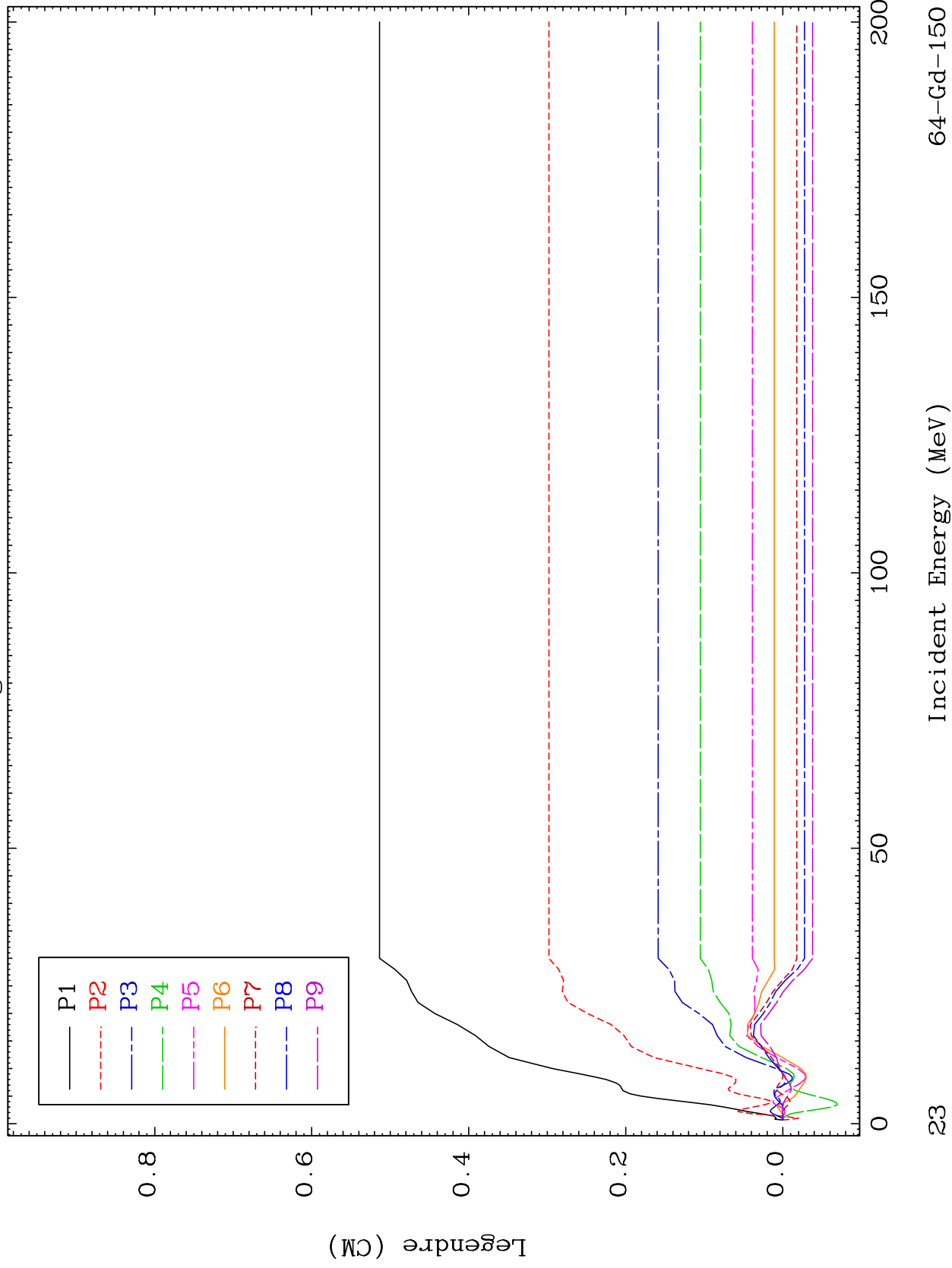
64-Gd-150



MAT 6419

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

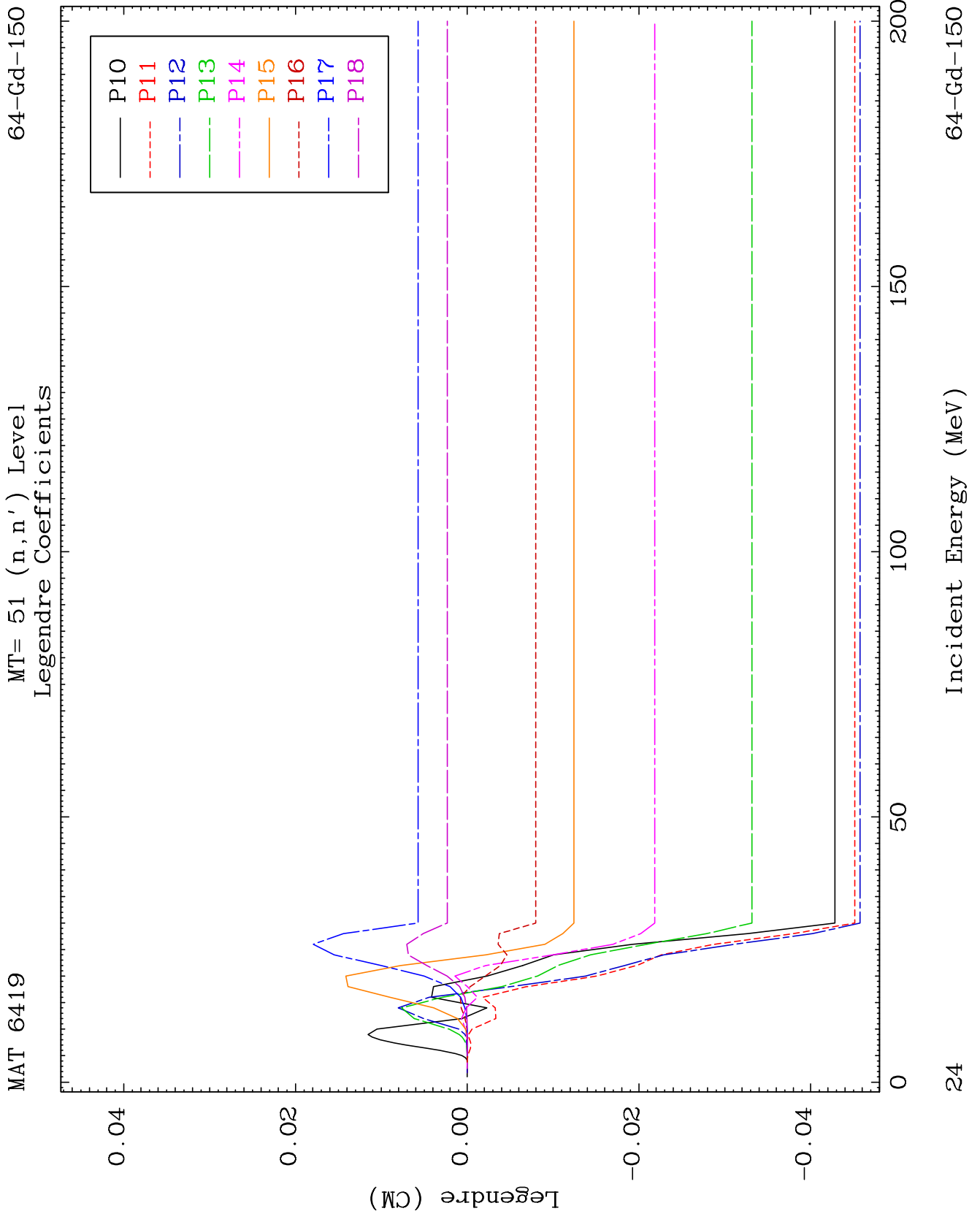
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23

Incident Energy (MeV)

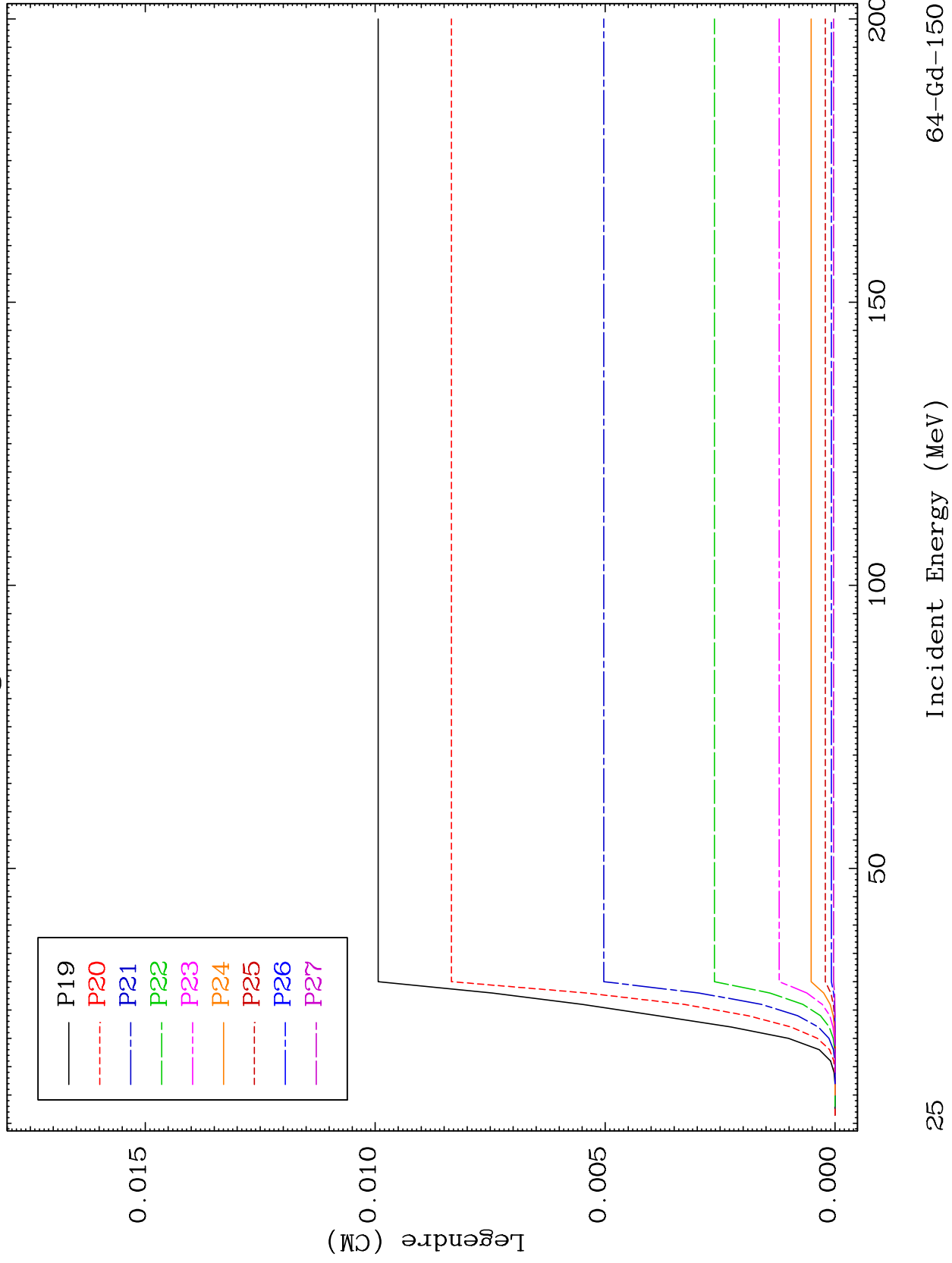
64-Gd-150



MAT 6419

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

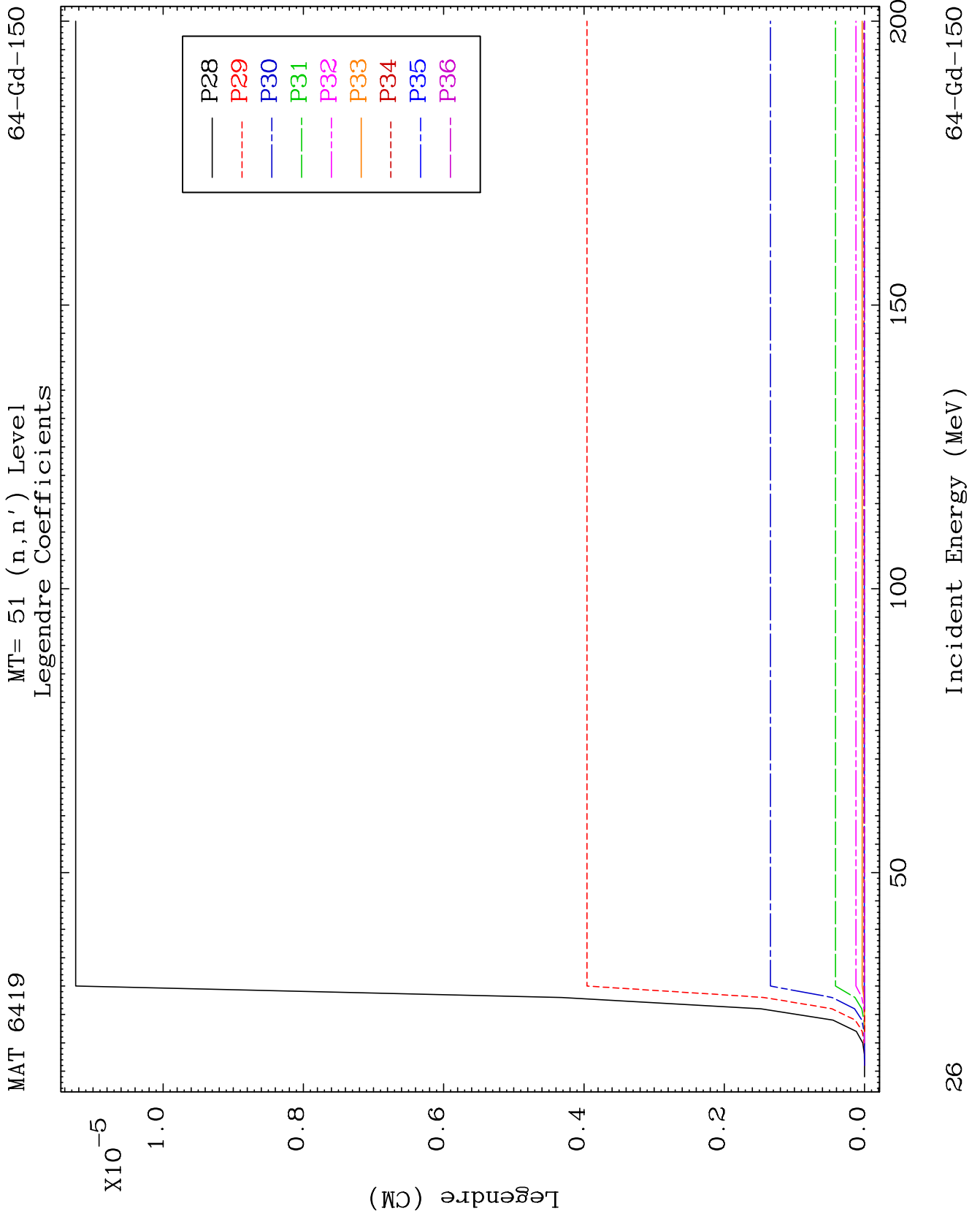
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25

Incident Energy (MeV)

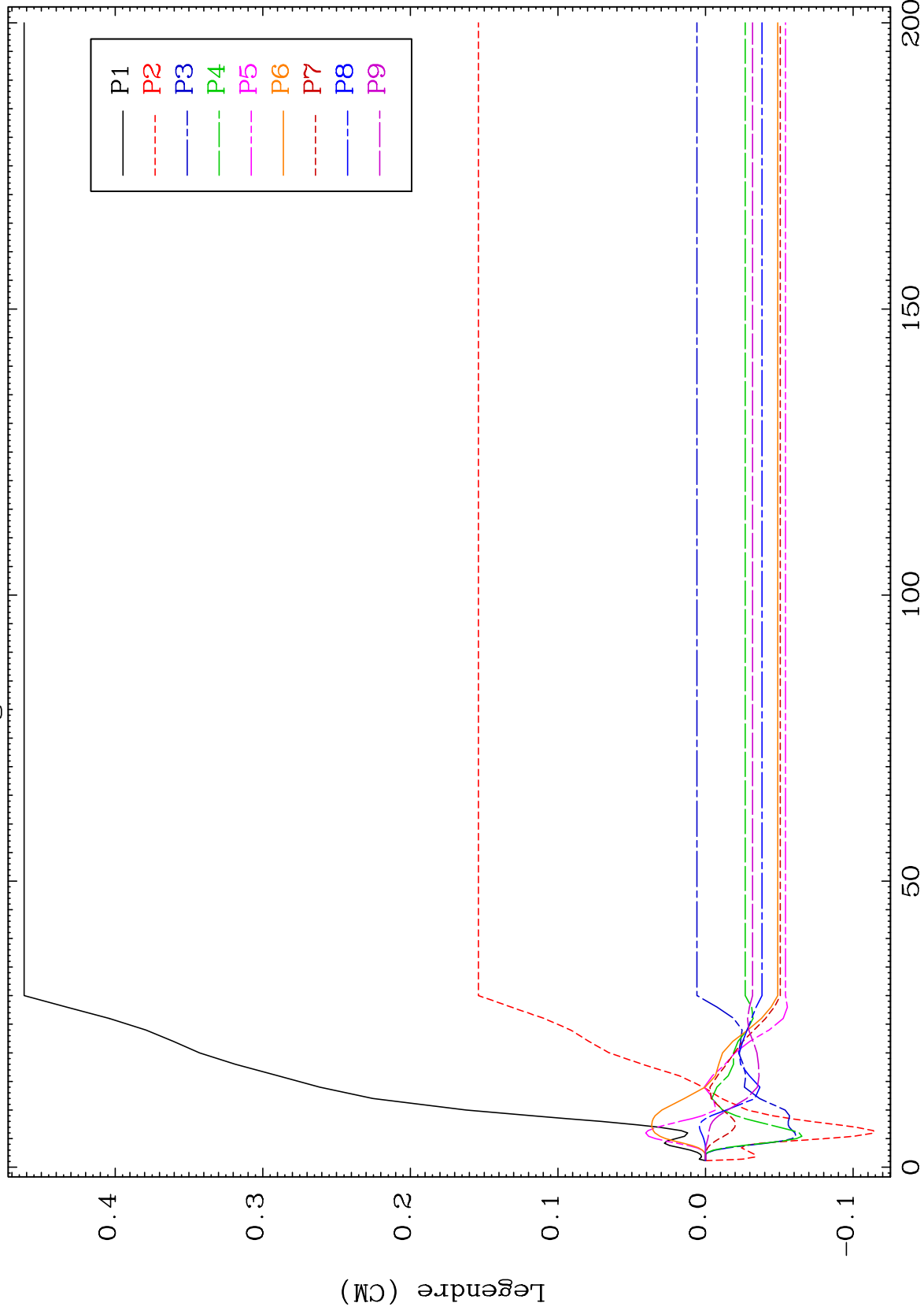
64-Gd-150



MAT 6419

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

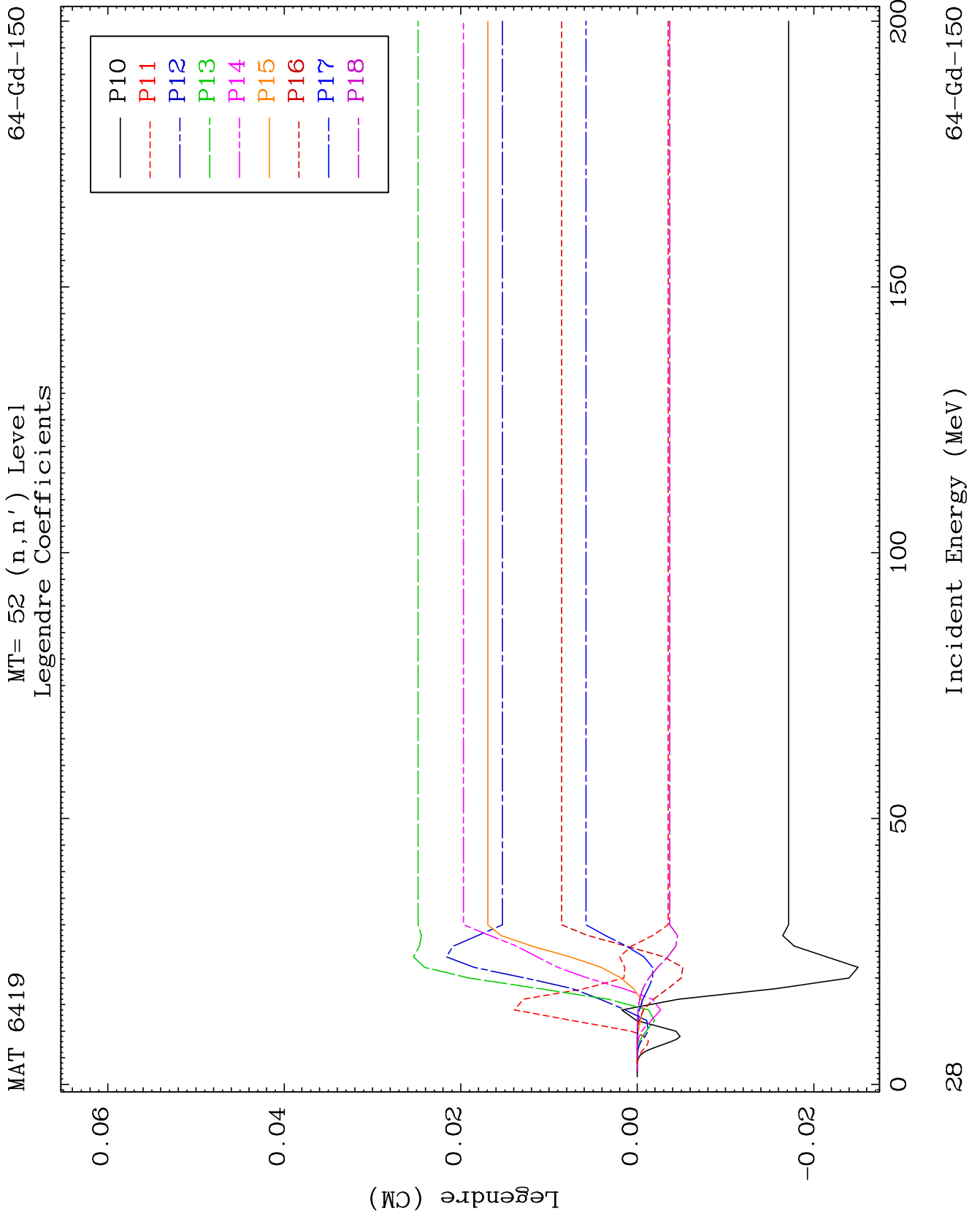
64-Gd-150



27

Incident Energy (MeV)

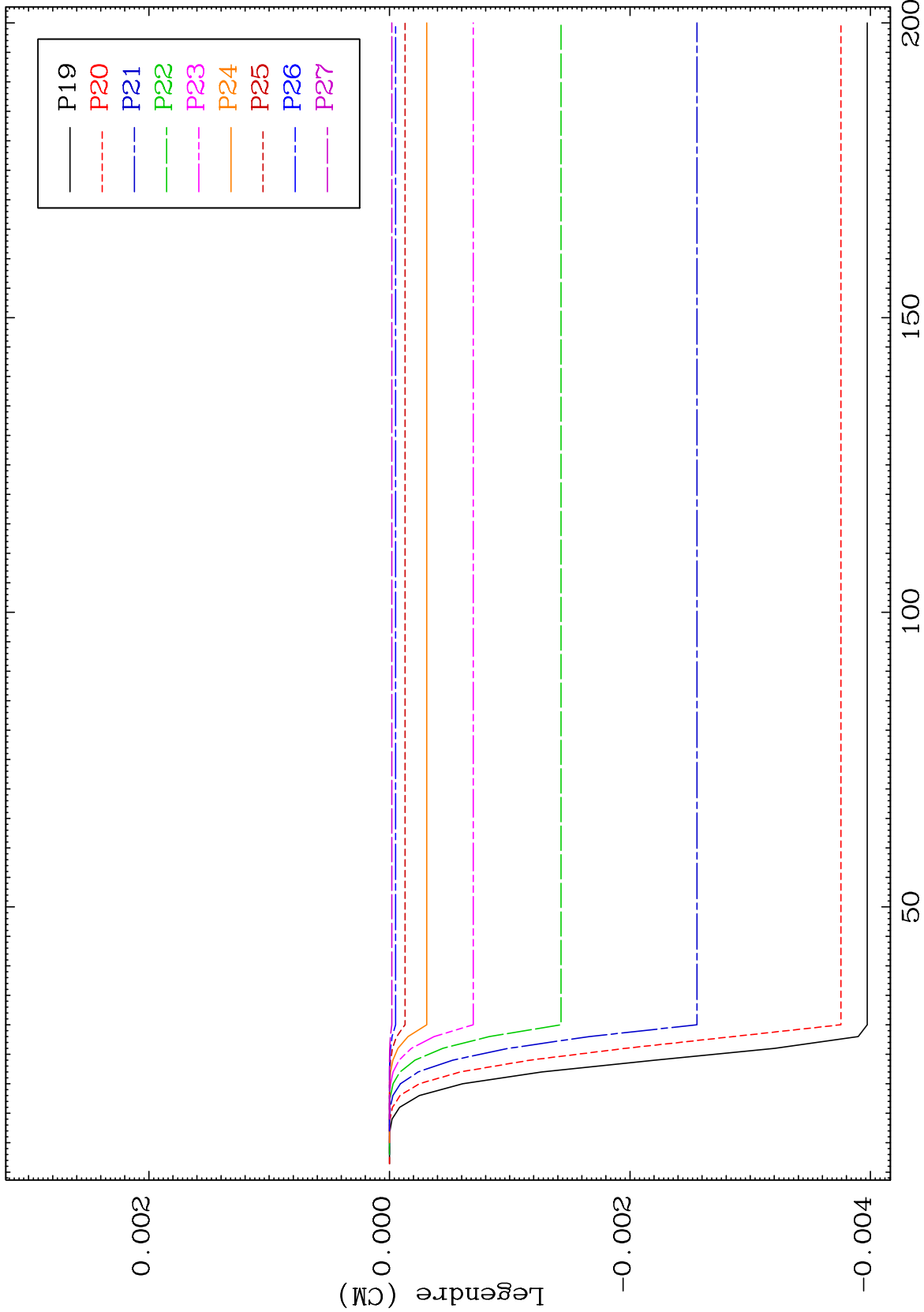
64-Gd-150



MAT 6419

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

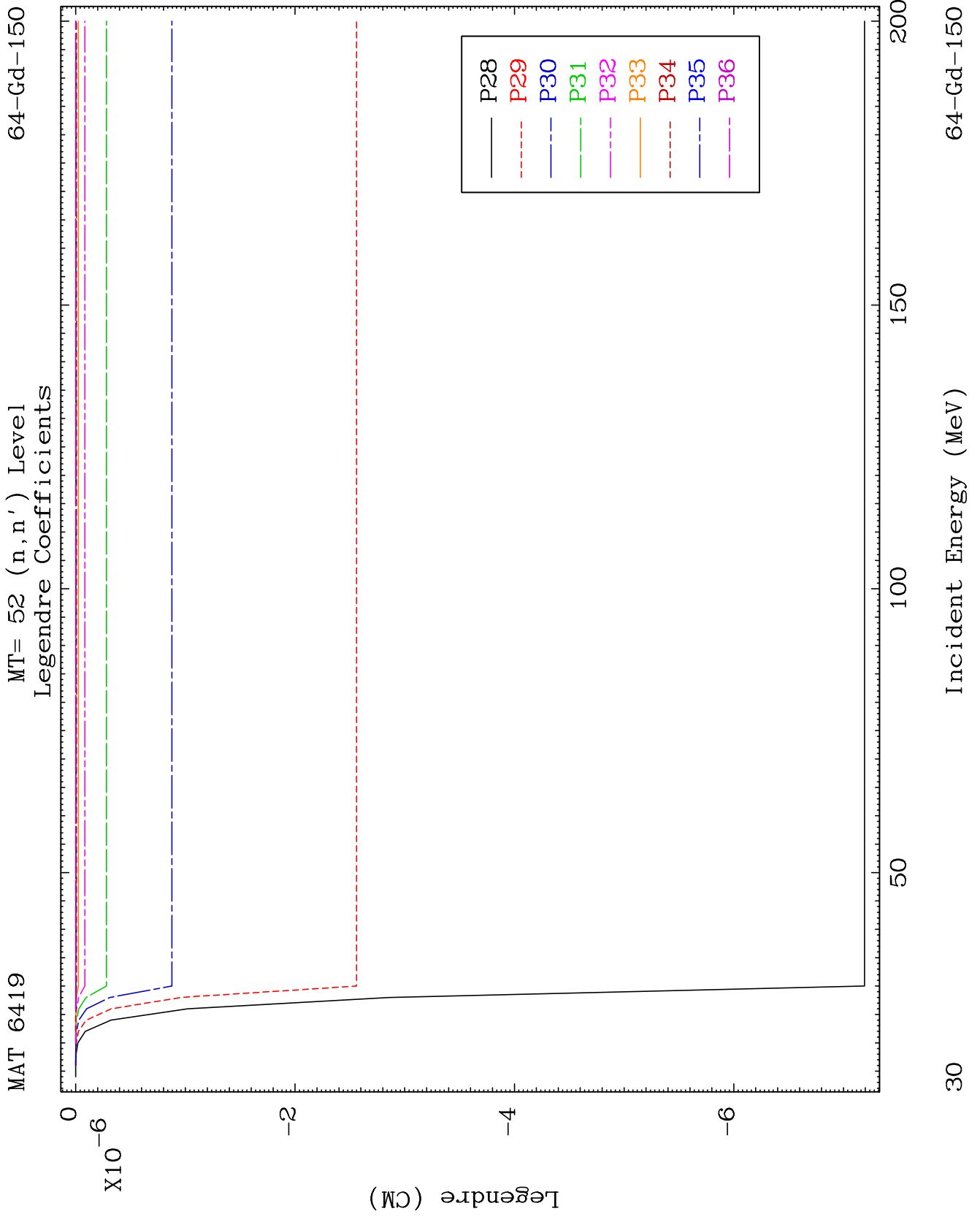
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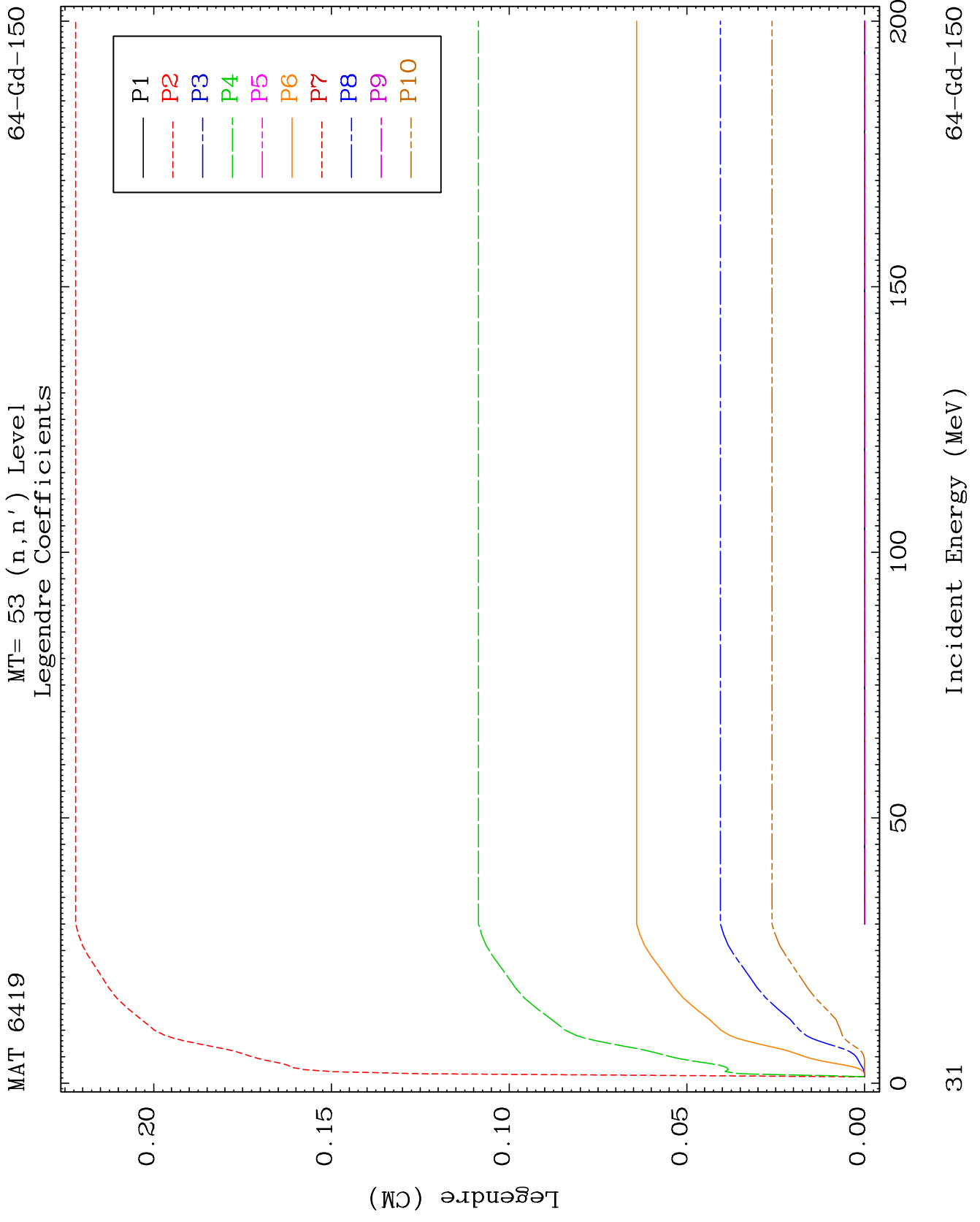


29

Incident Energy (MeV)

64-Gd-150

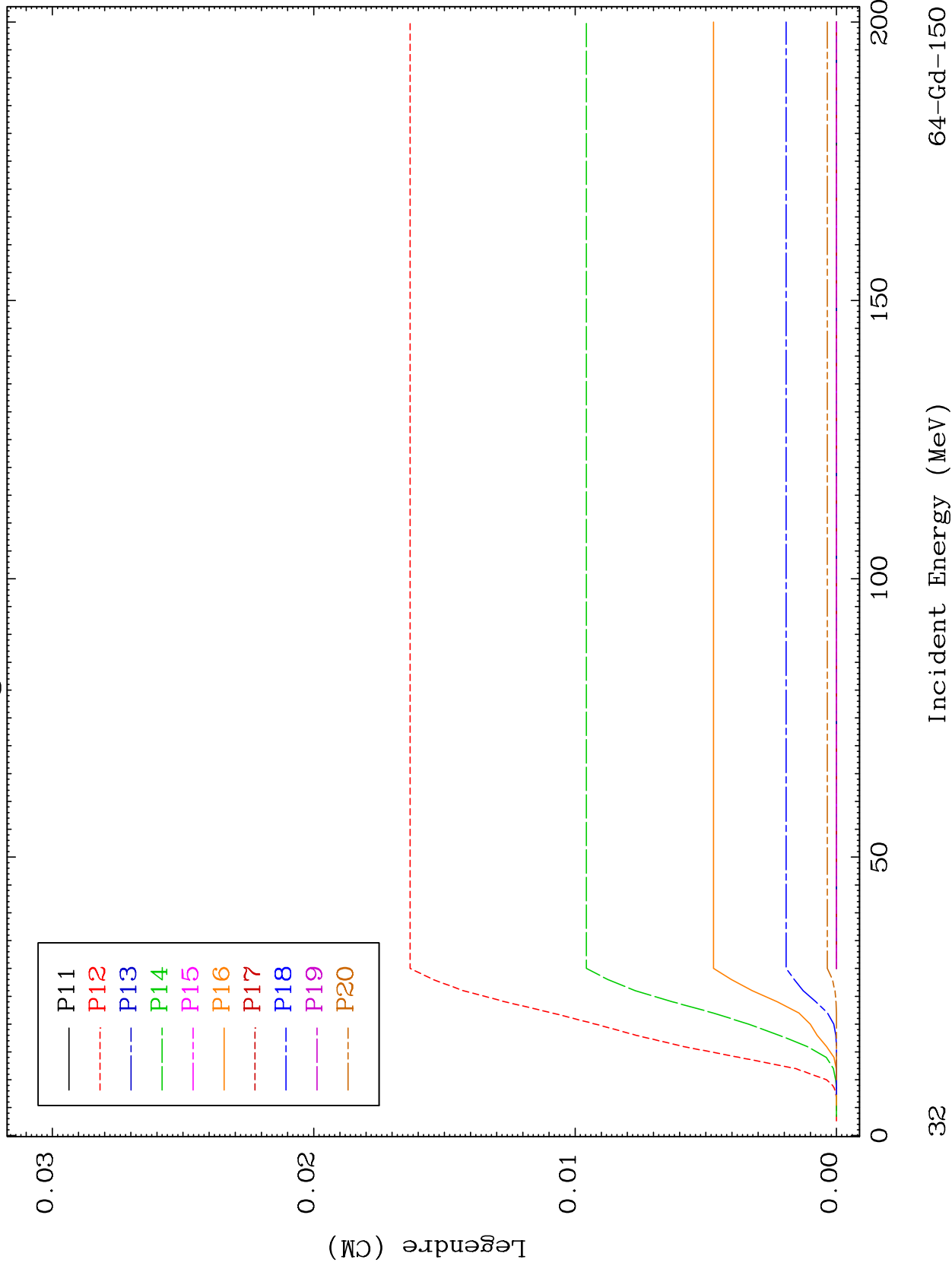




MAT 6419

MT= 53 (n,n') Level
Legendre Coefficients

64-Gd-150



32

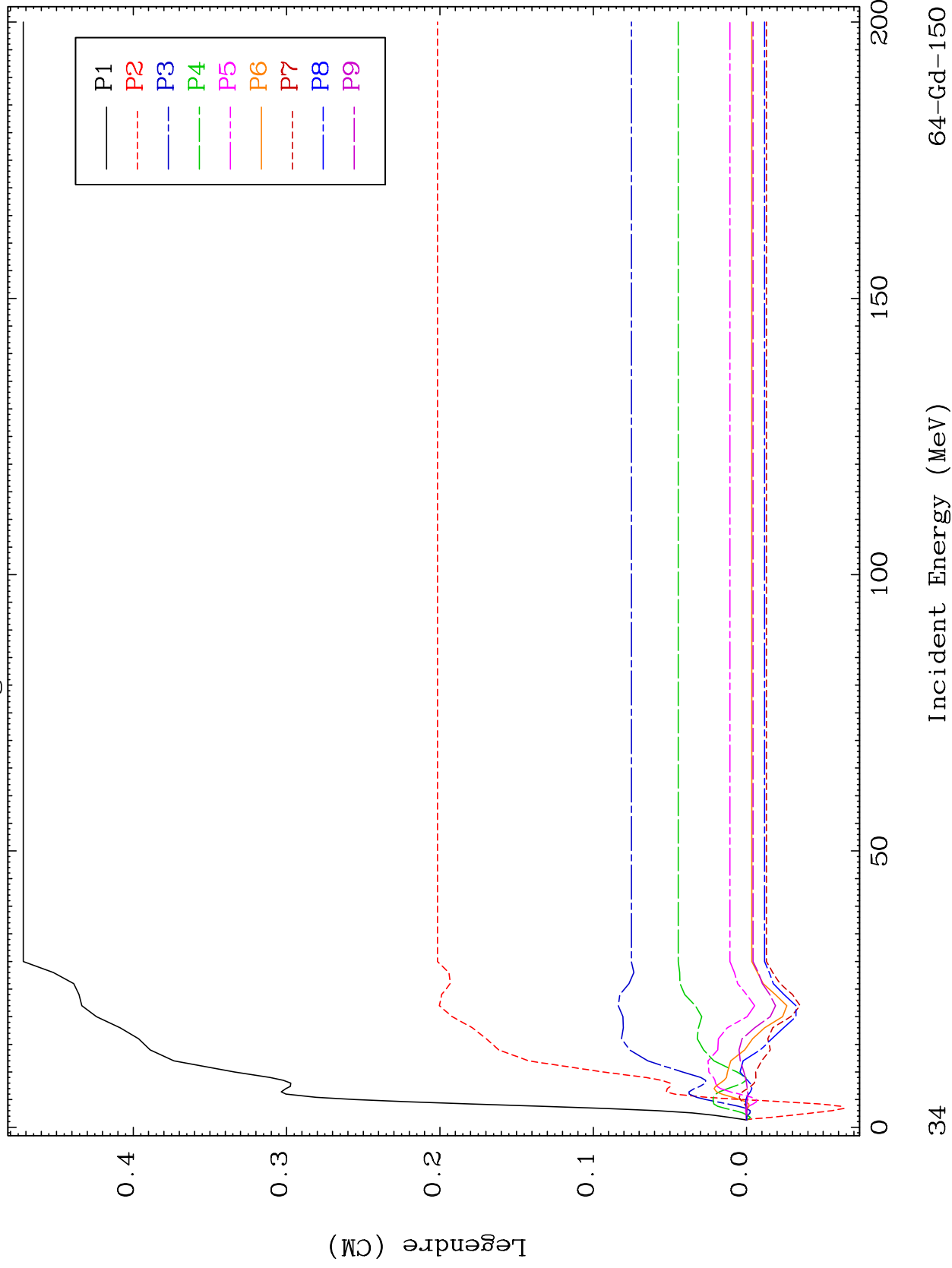
Incident Energy (MeV)

64-Gd-150

MAT 6419

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

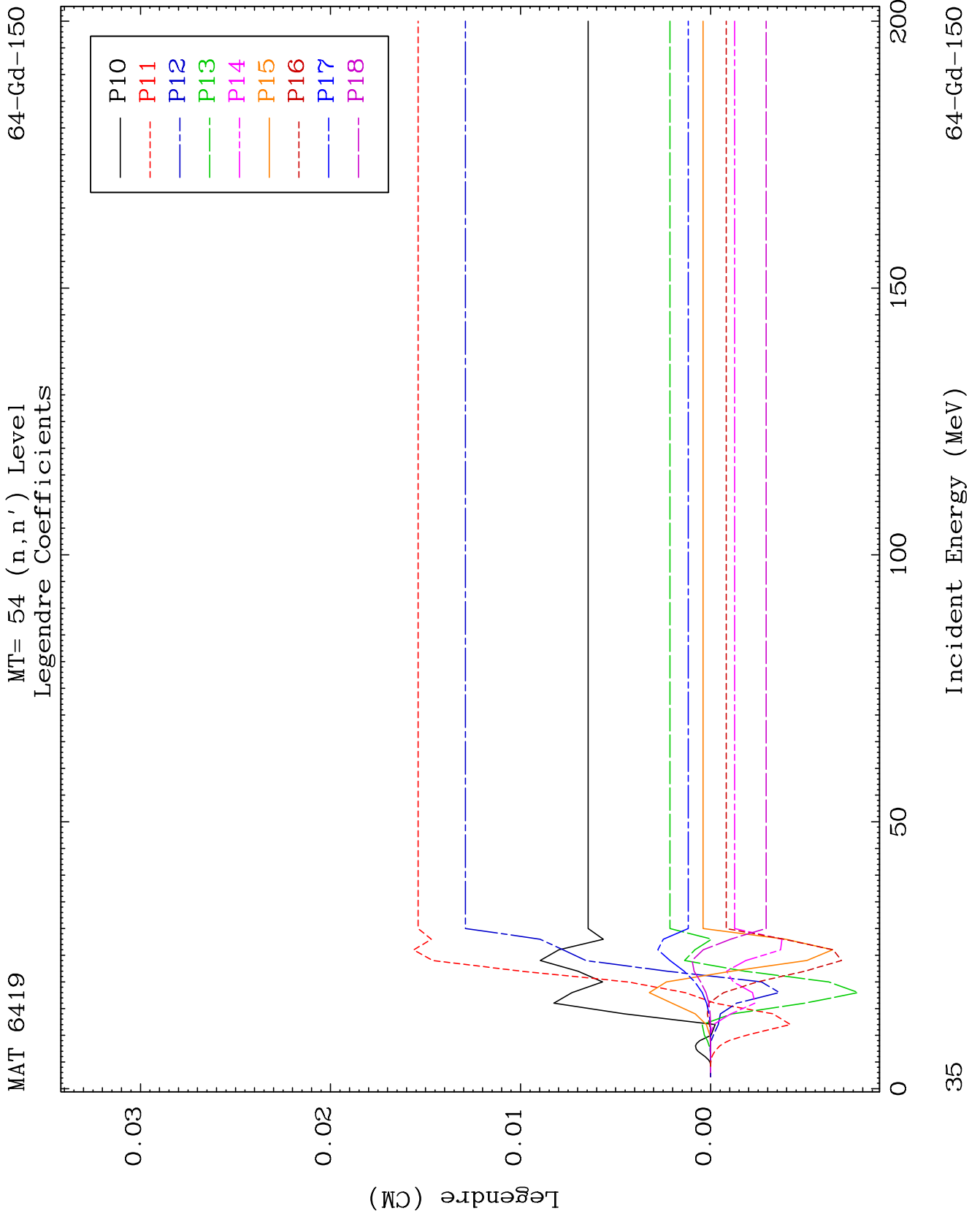
64-Gd-150



64-Gd-150

Incident Energy (MeV)

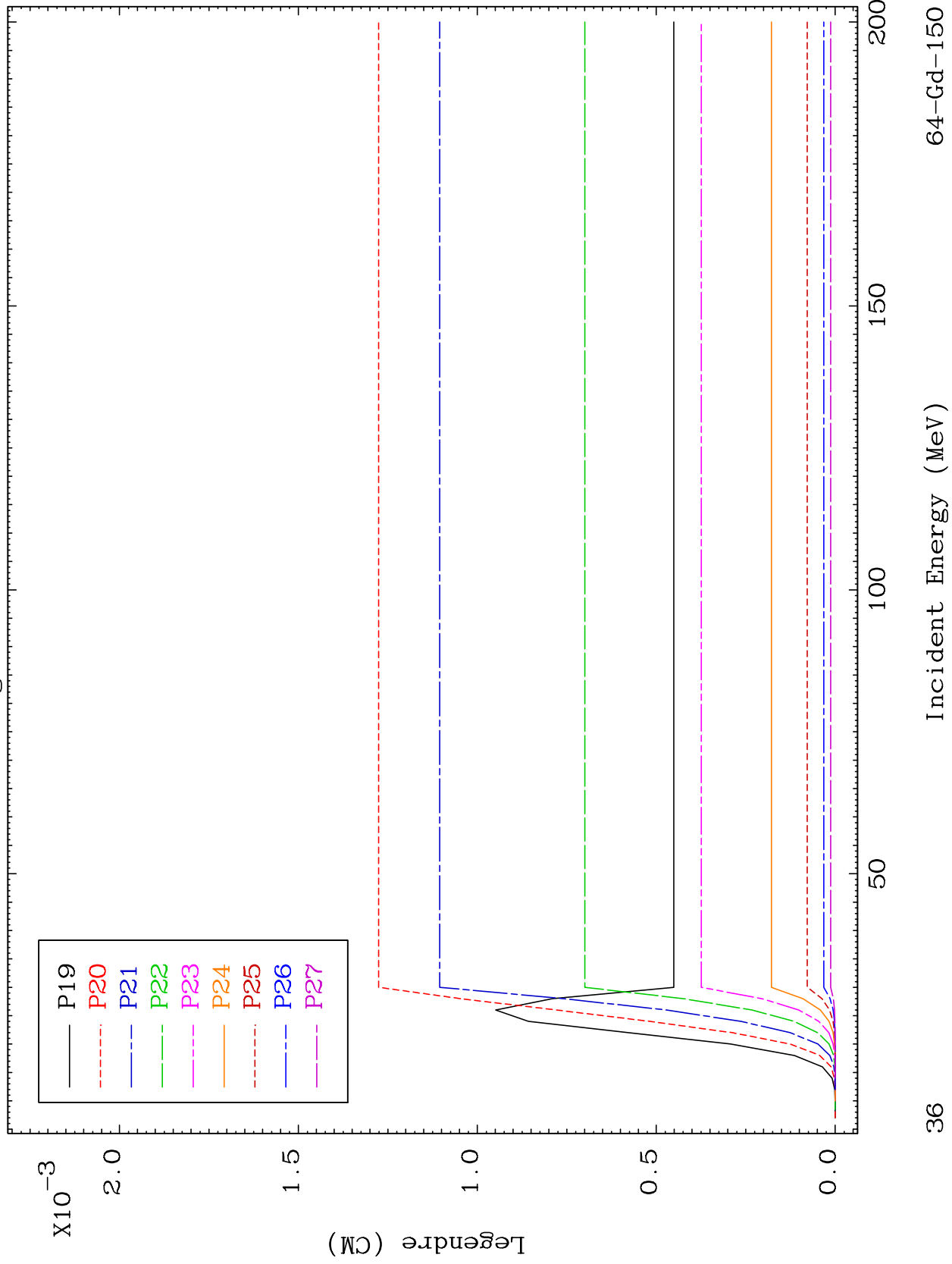
34



MAT 6419

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

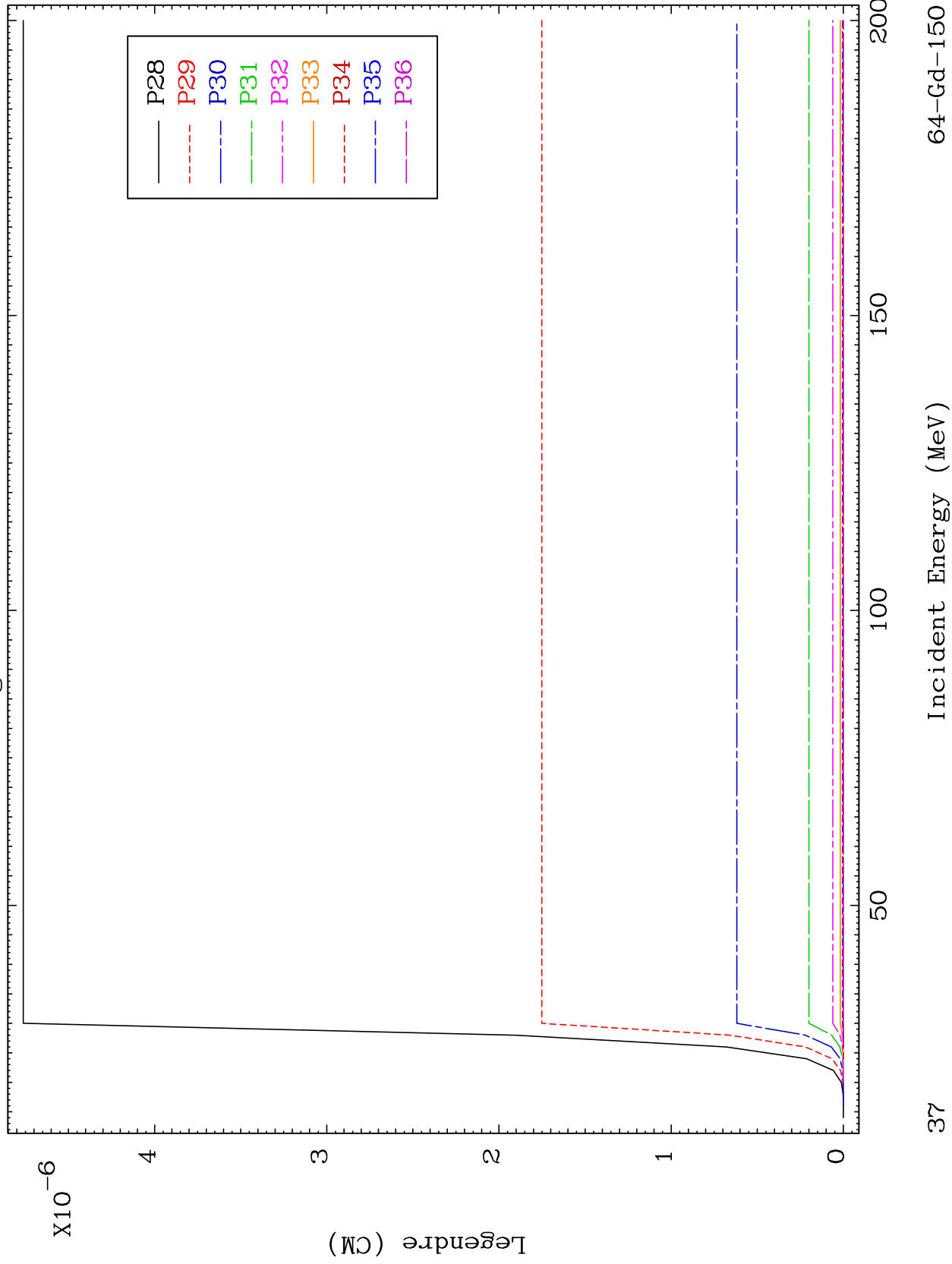
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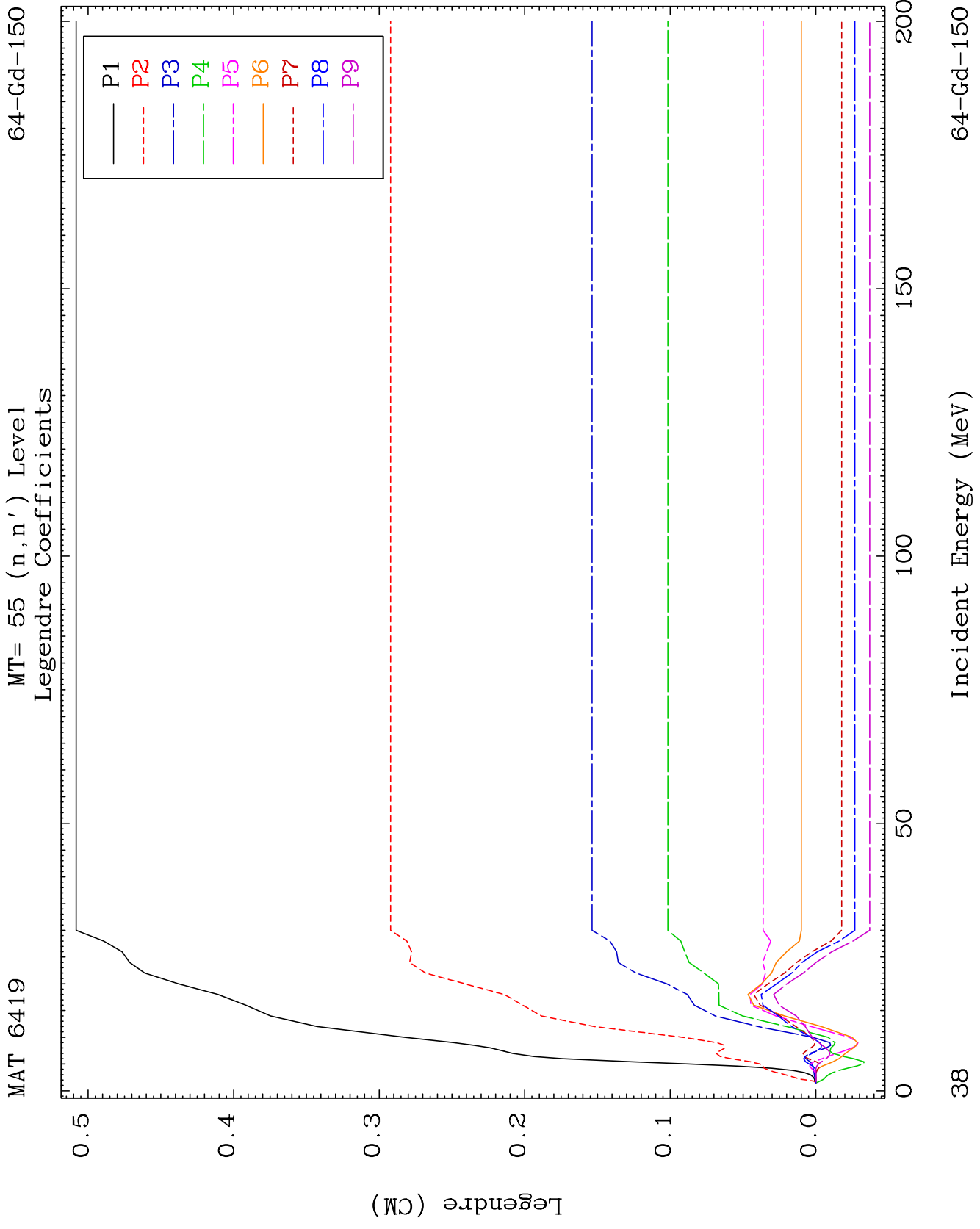


MAT 6419

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

64-Gd-150

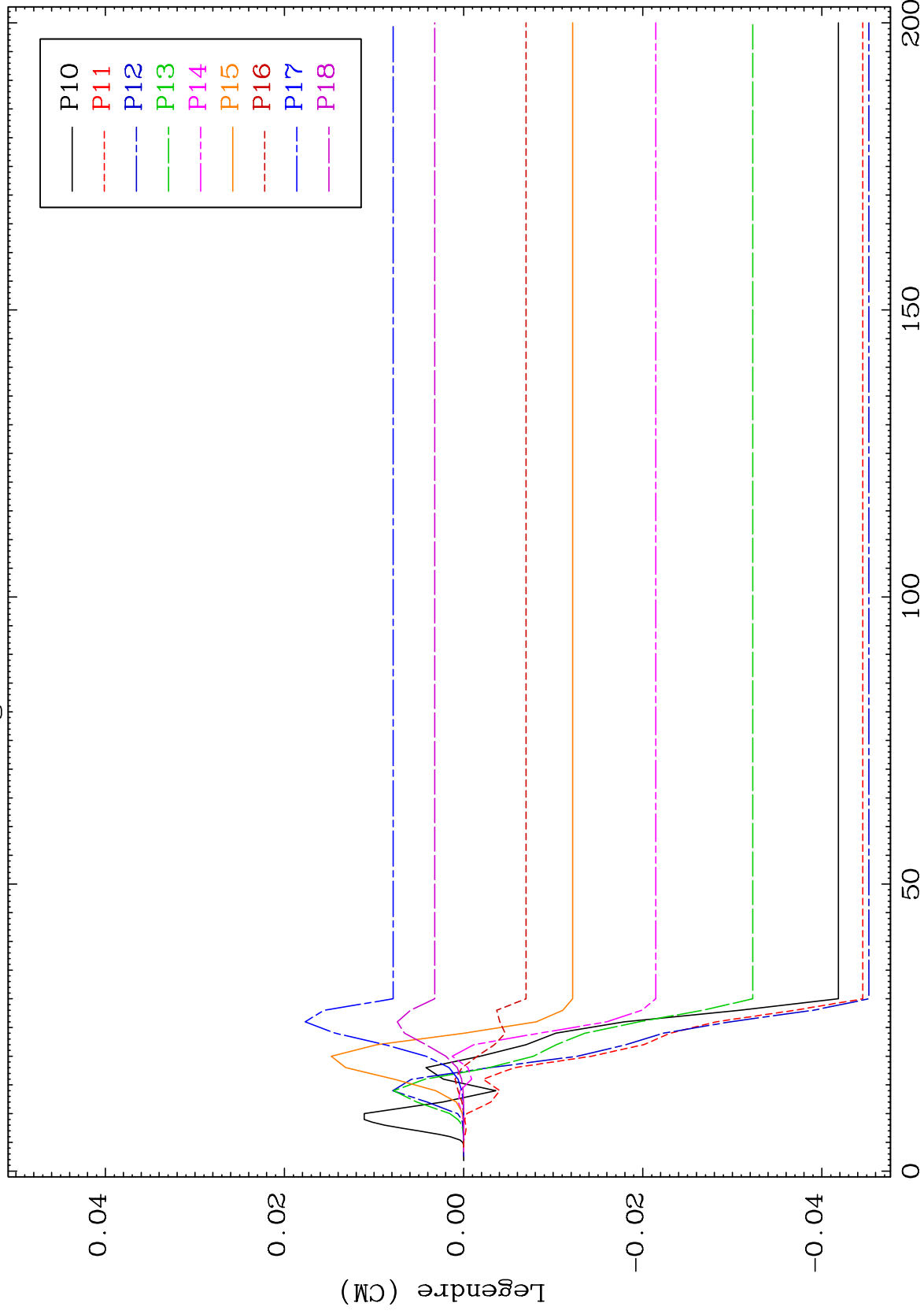




MAT 6419

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

64-Gd-150



39

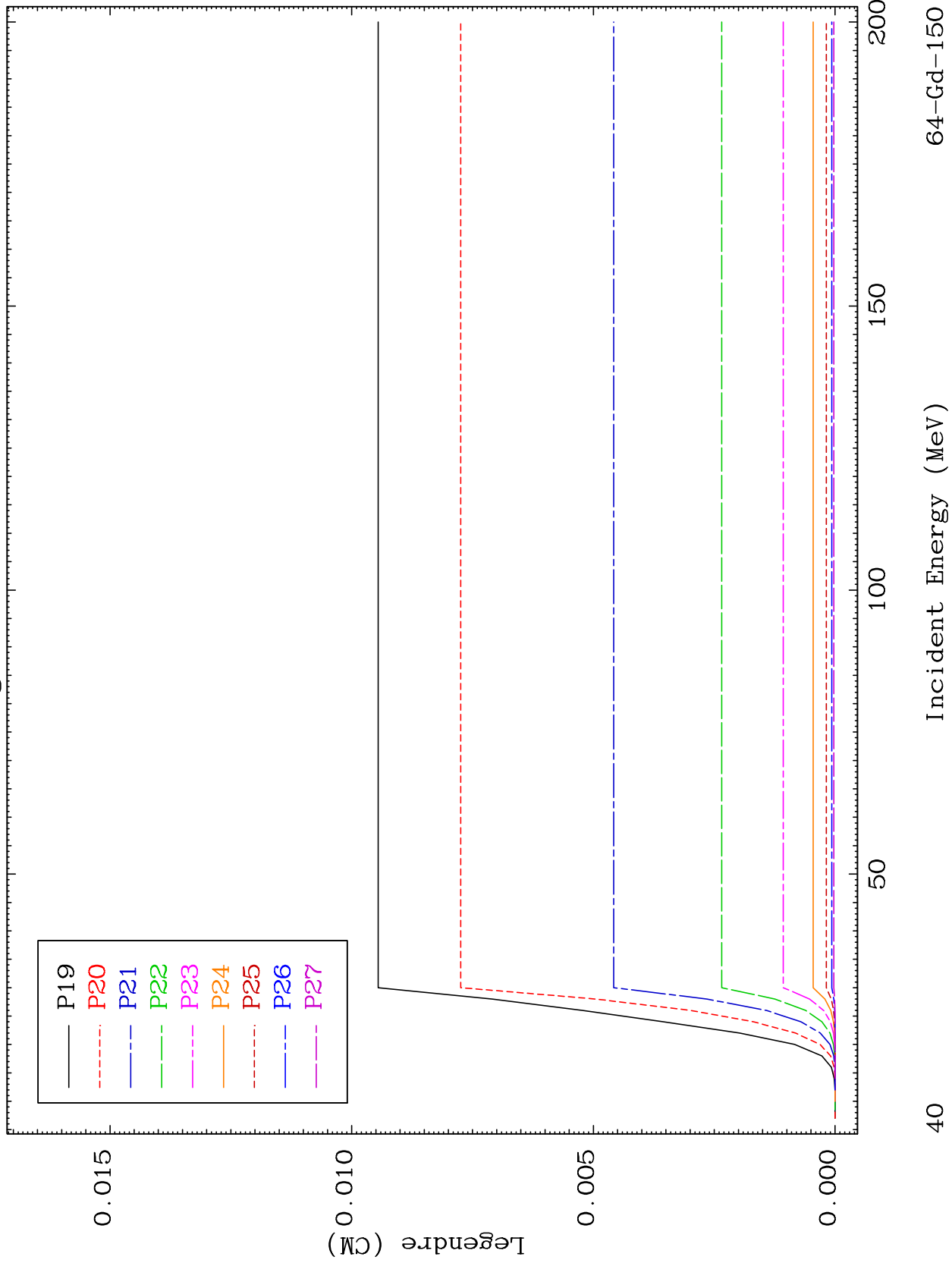
Incident Energy (MeV)

64-Gd-150

MAT 6419

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

64-Gd-150



64-Gd-150

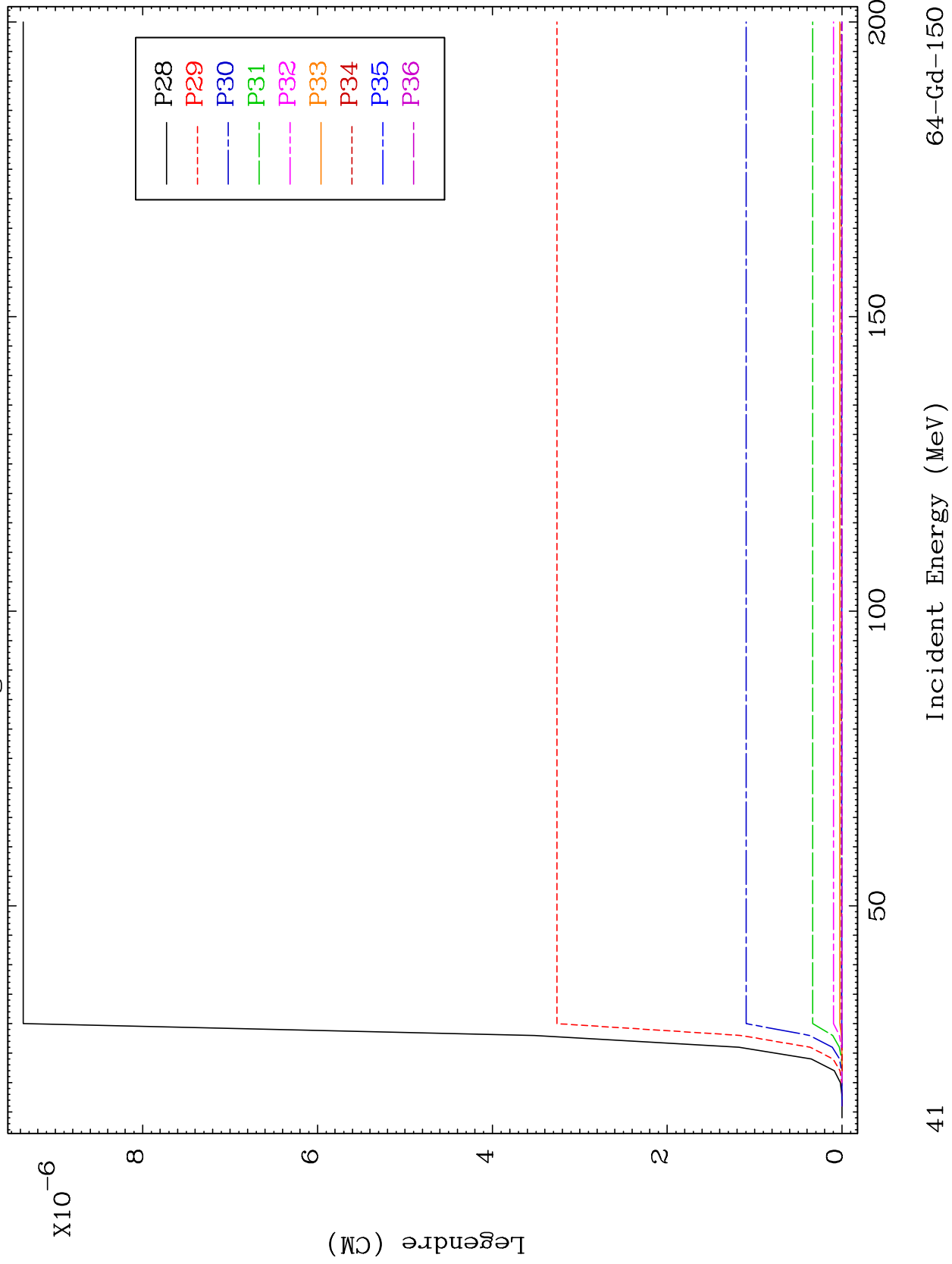
Incident Energy (MeV)

40

MAT 6419

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

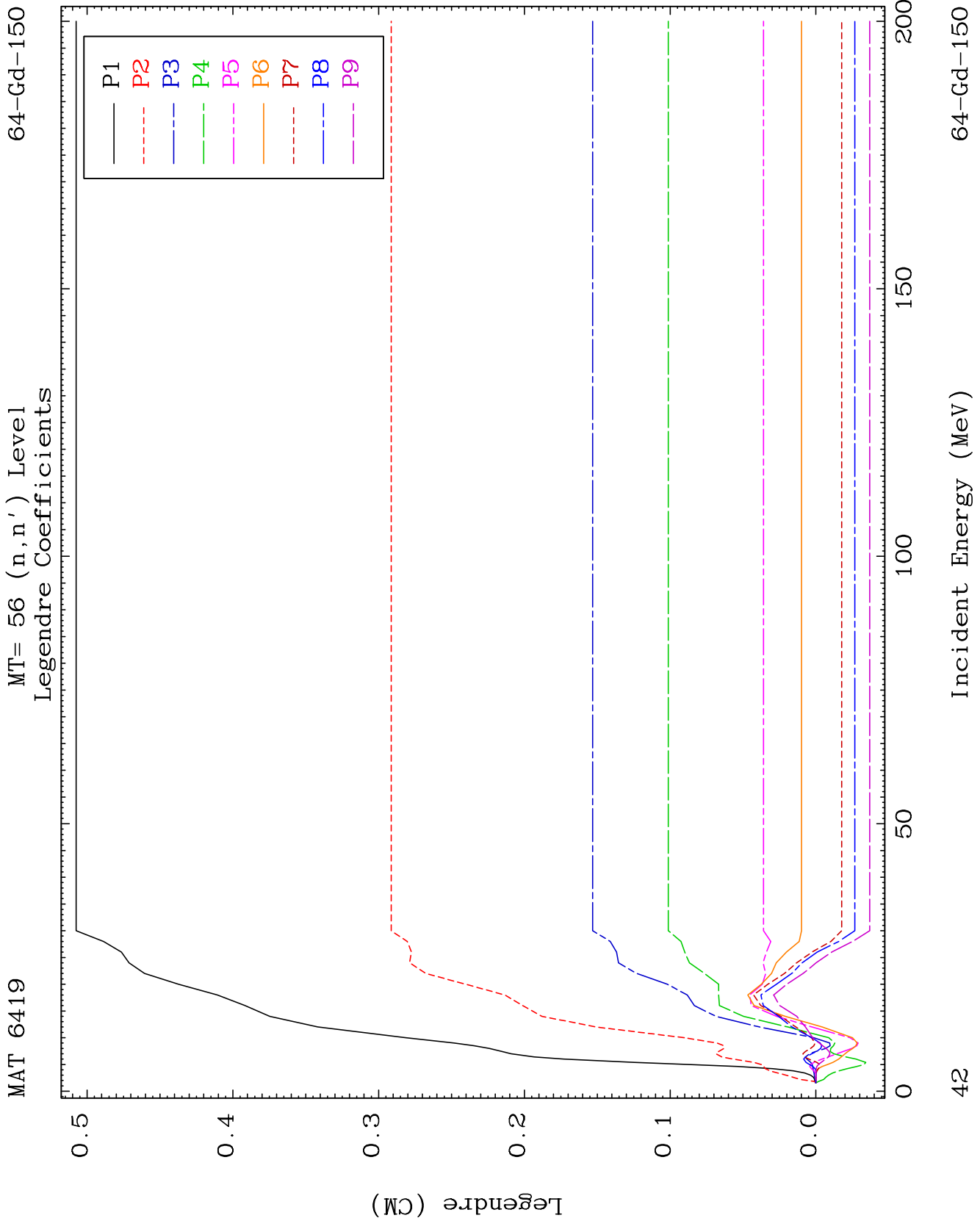
64-Gd-150



41

Incident Energy (MeV)

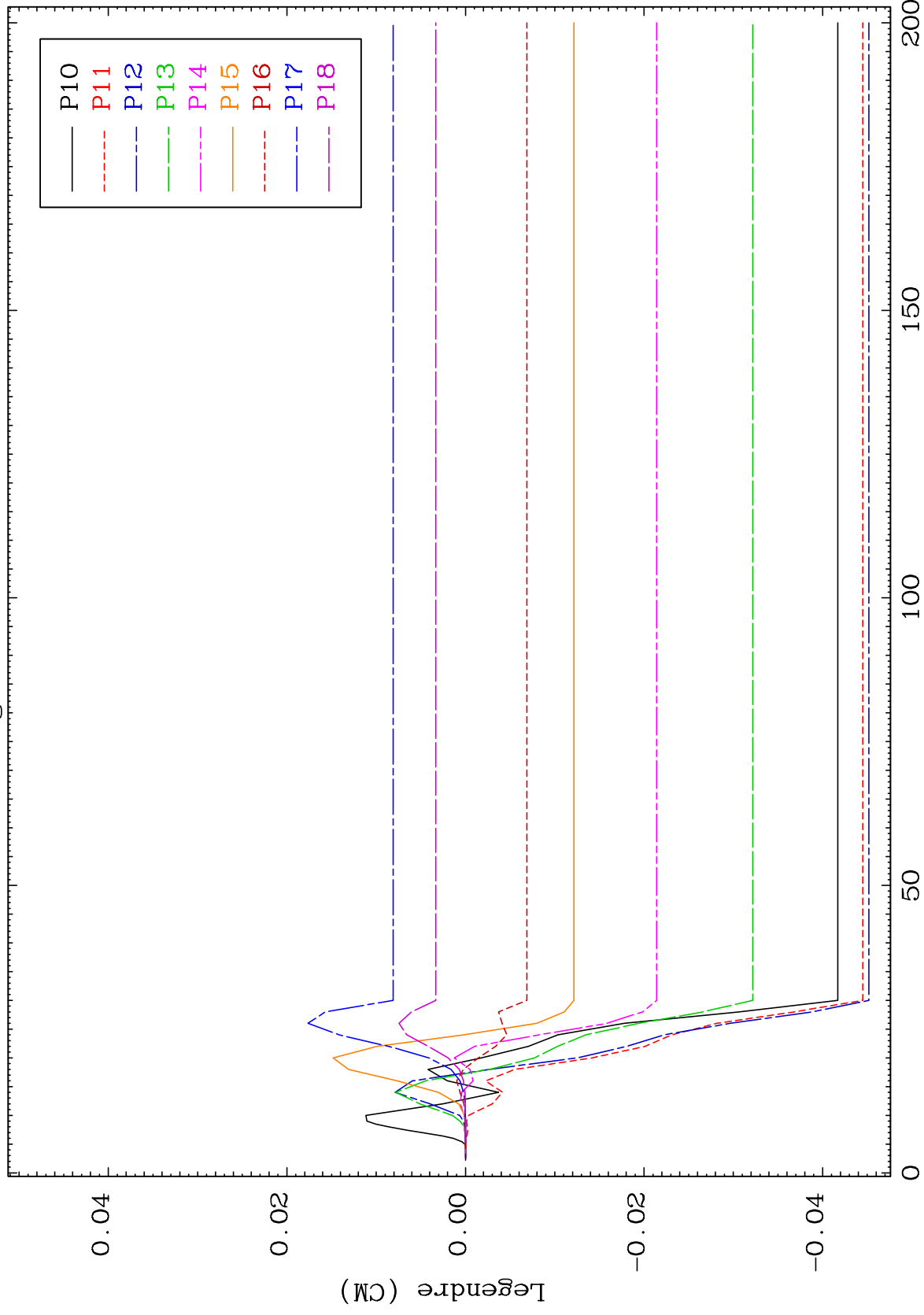
64-Gd-150



MAT 6419

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

64-Gd-150



43

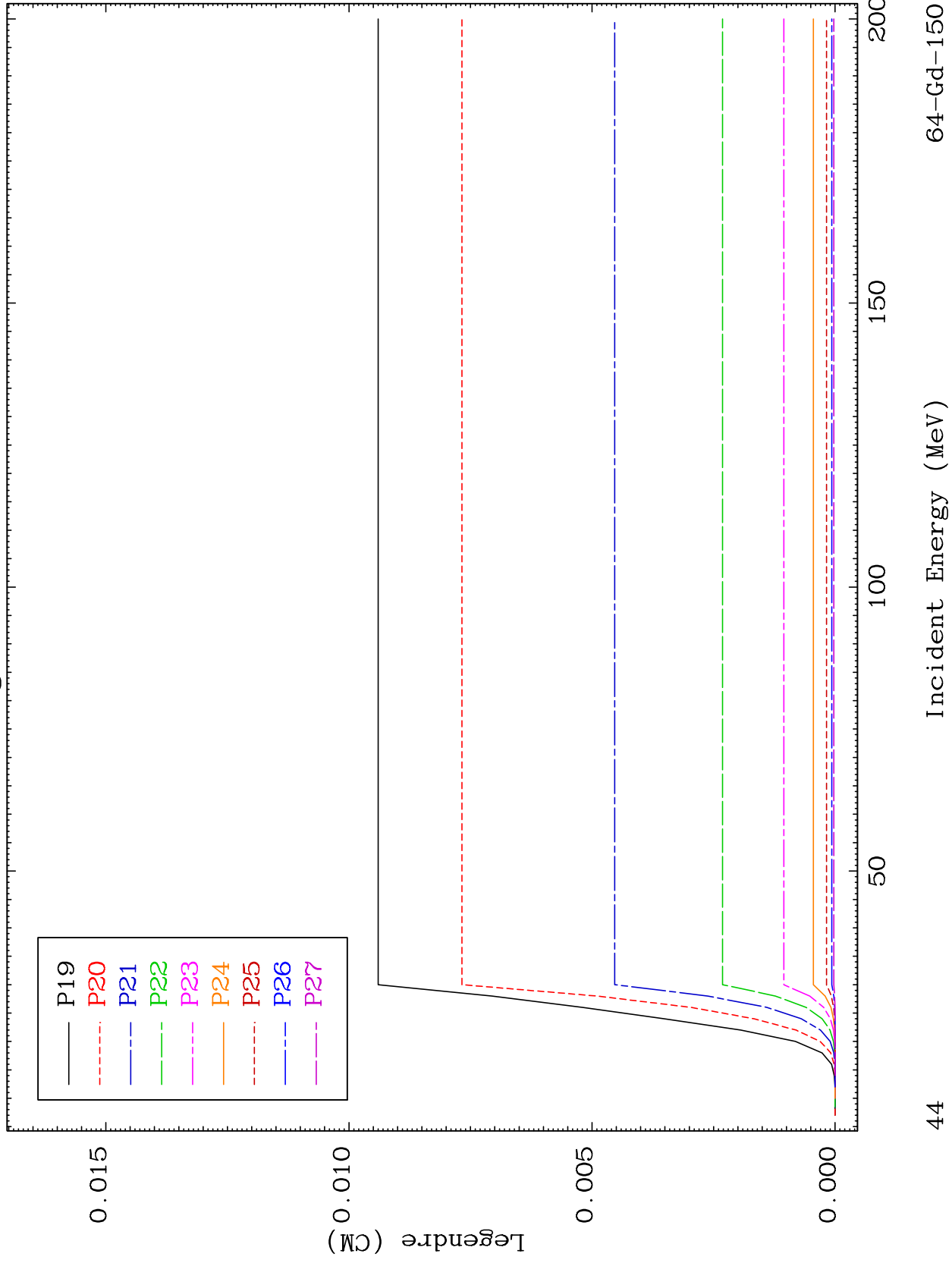
Incident Energy (MeV)

64-Gd-150

MAT 6419

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

64-Gd-150



44

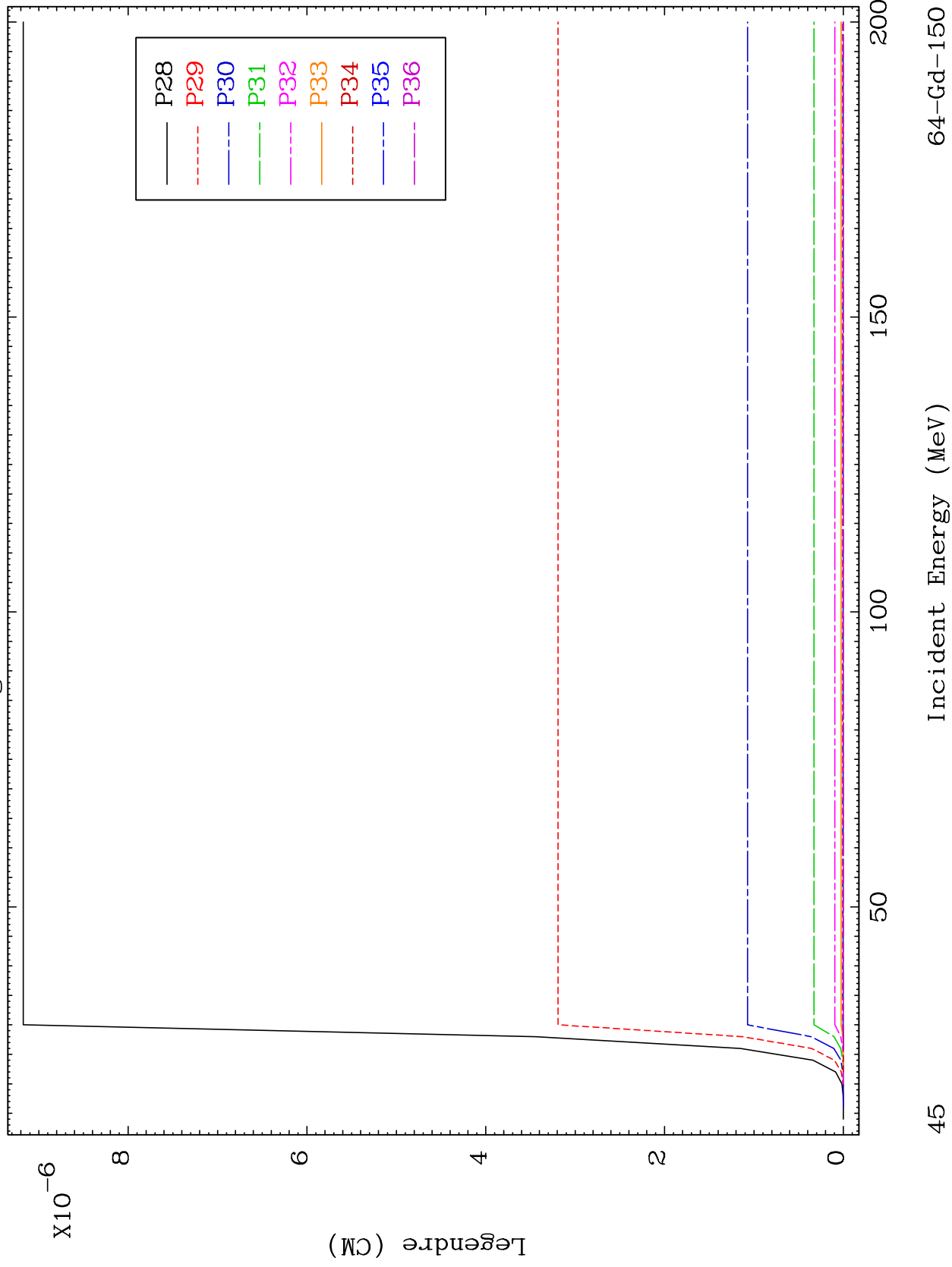
Incident Energy (MeV)

64-Gd-150

MAT 6419

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

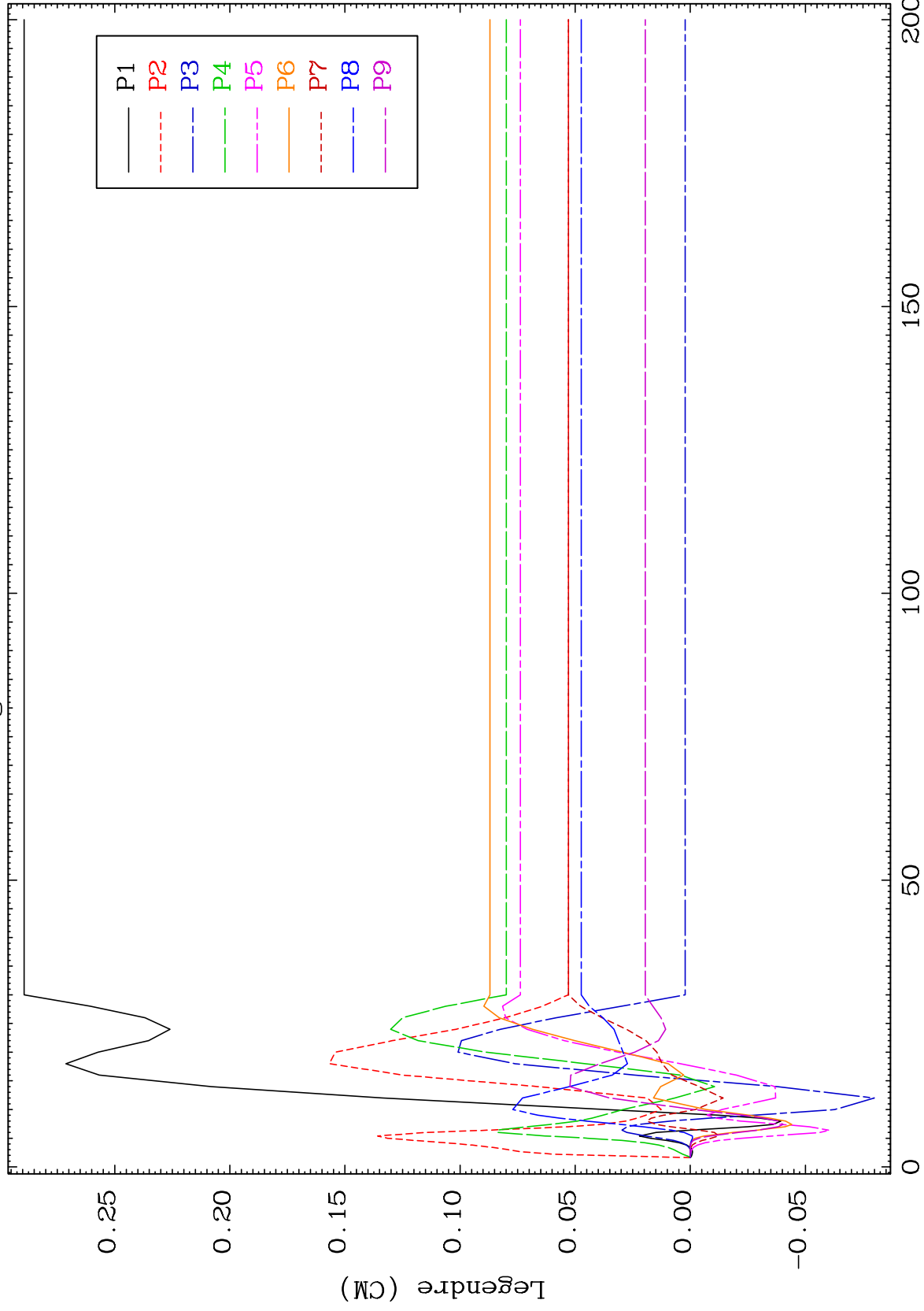
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MAT 6419

MT= 57 (n,n') Level
Legendre Coefficients

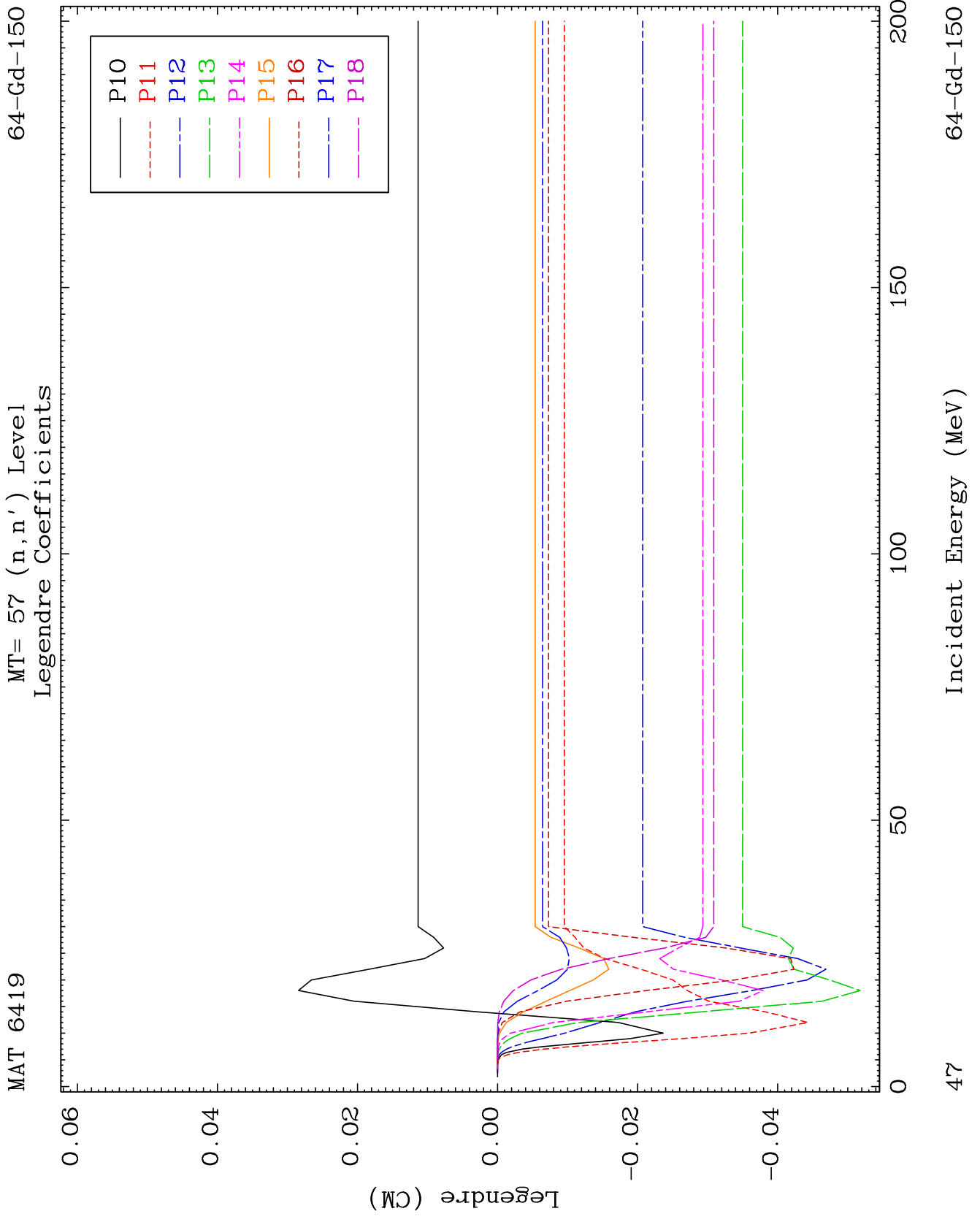
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46

Incident Energy (MeV)

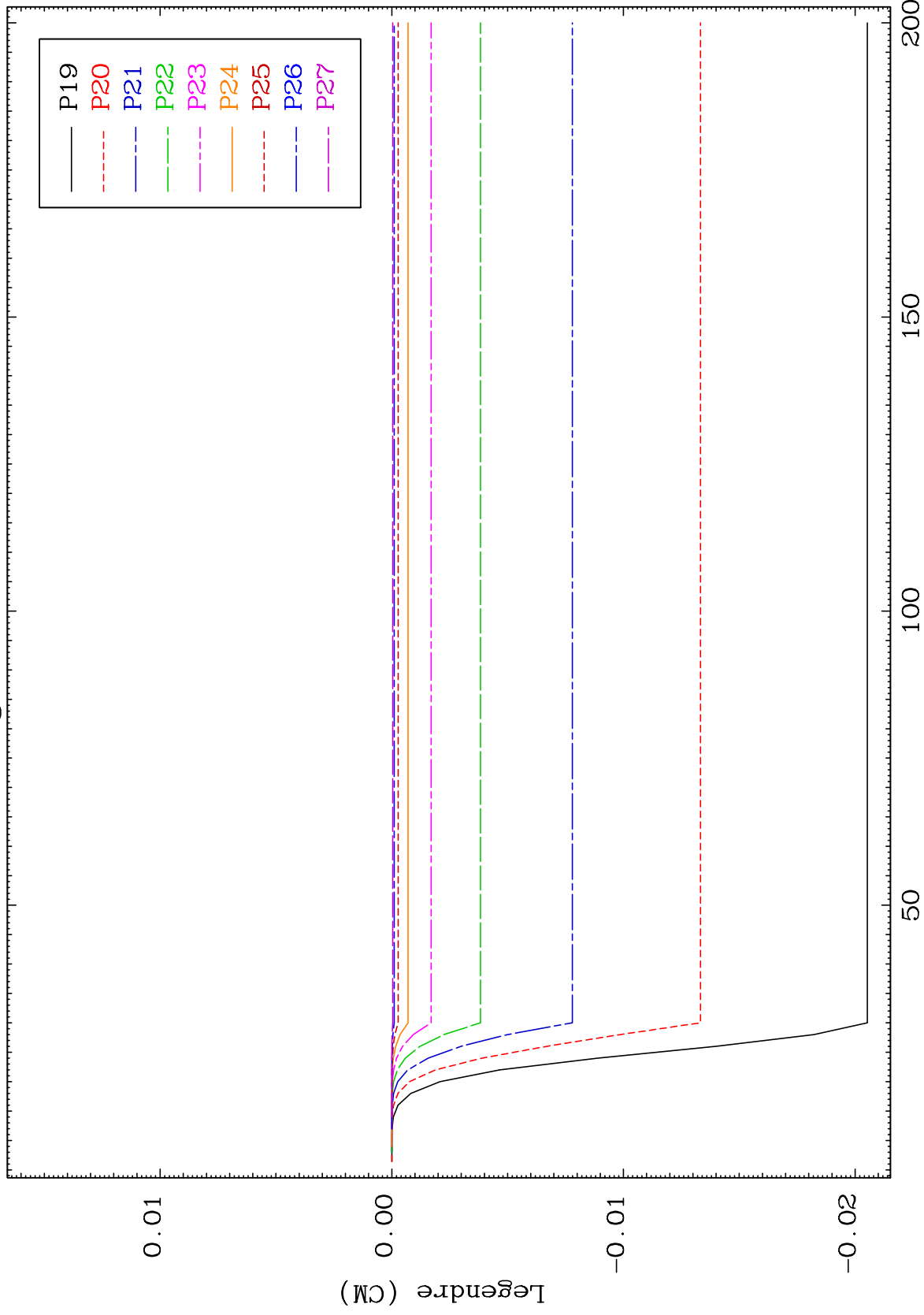
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MAT 6419

MT= 57 (n,n') Level
Legendre Coefficients

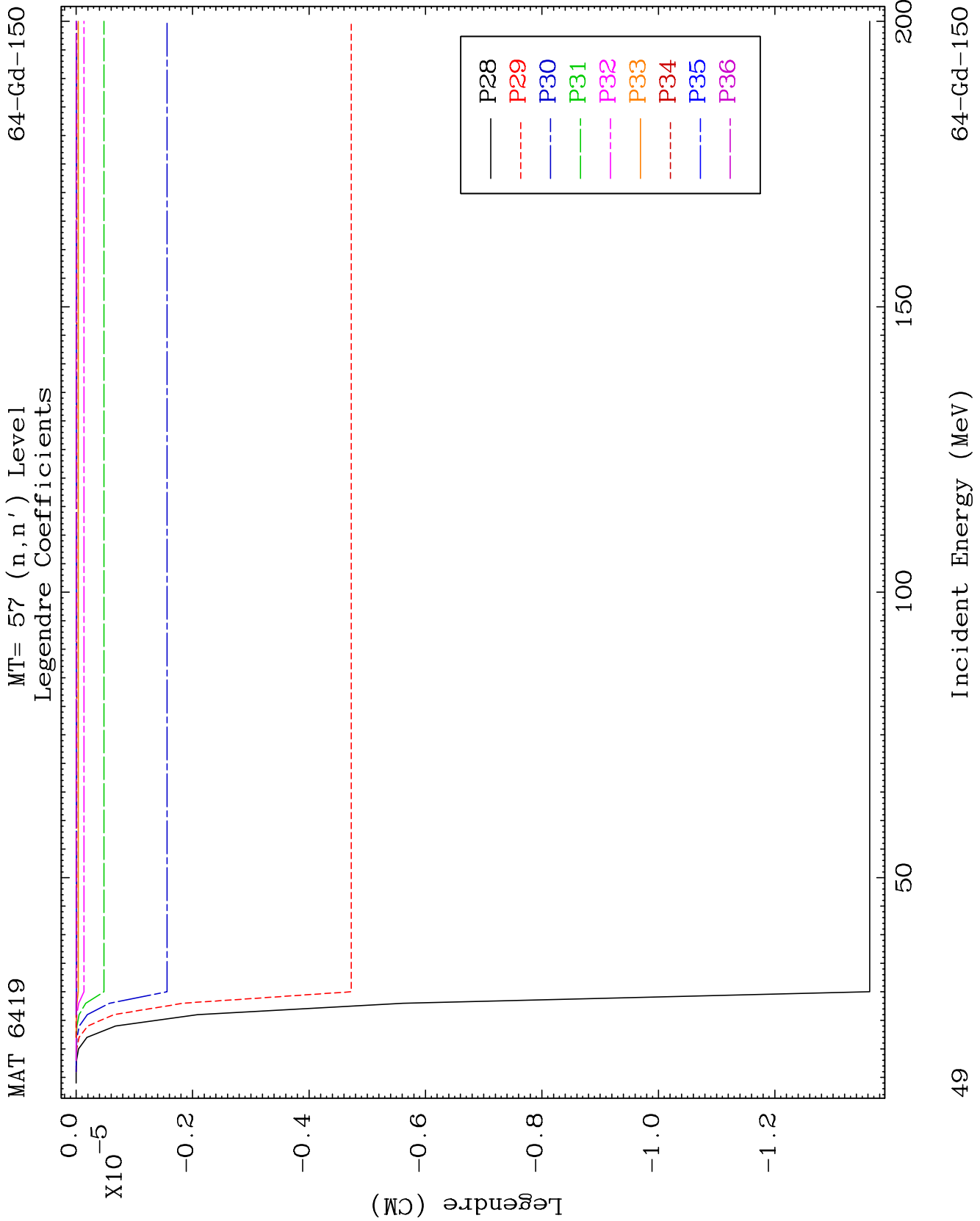
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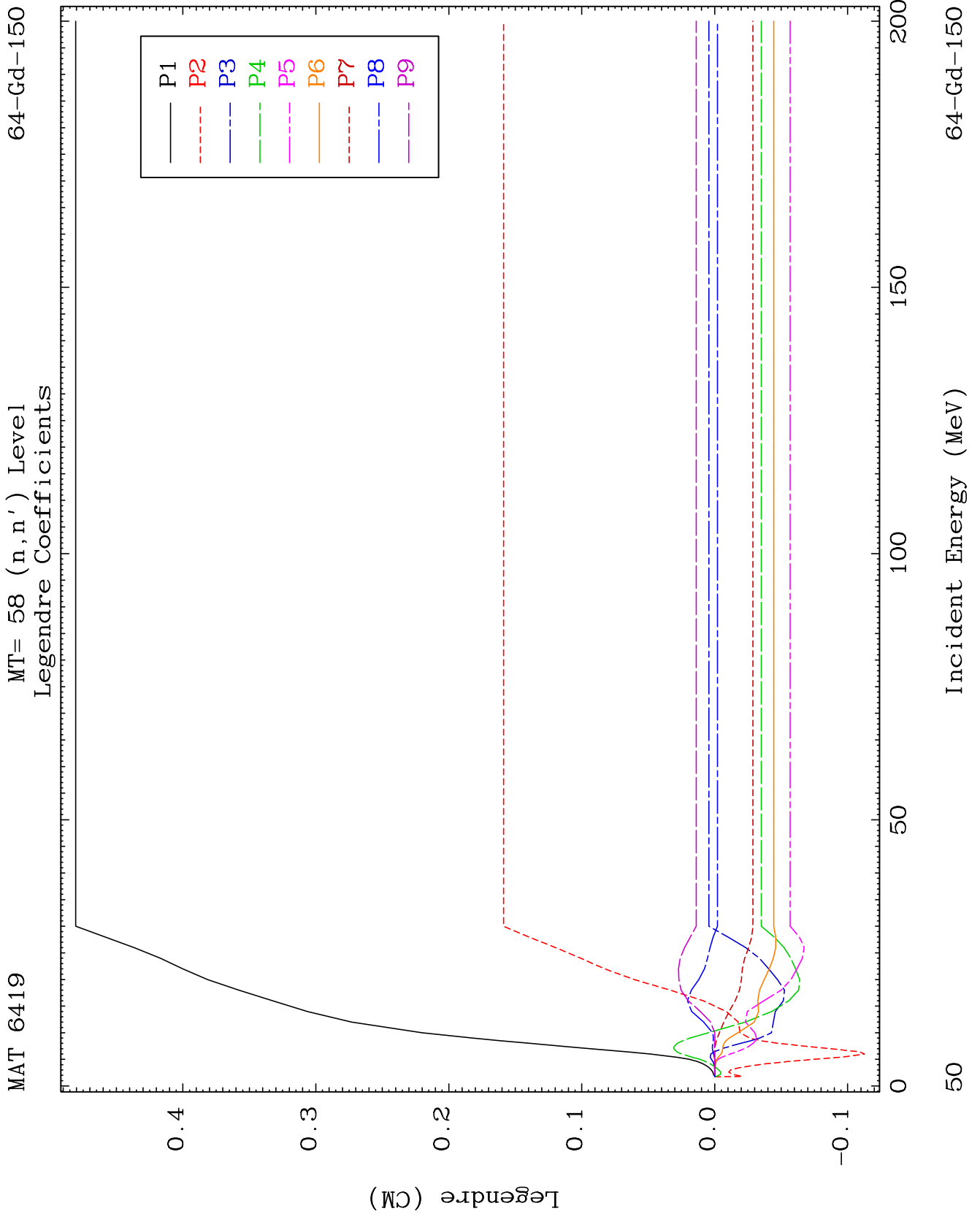


48

Incident Energy (MeV)

64-Gd-150

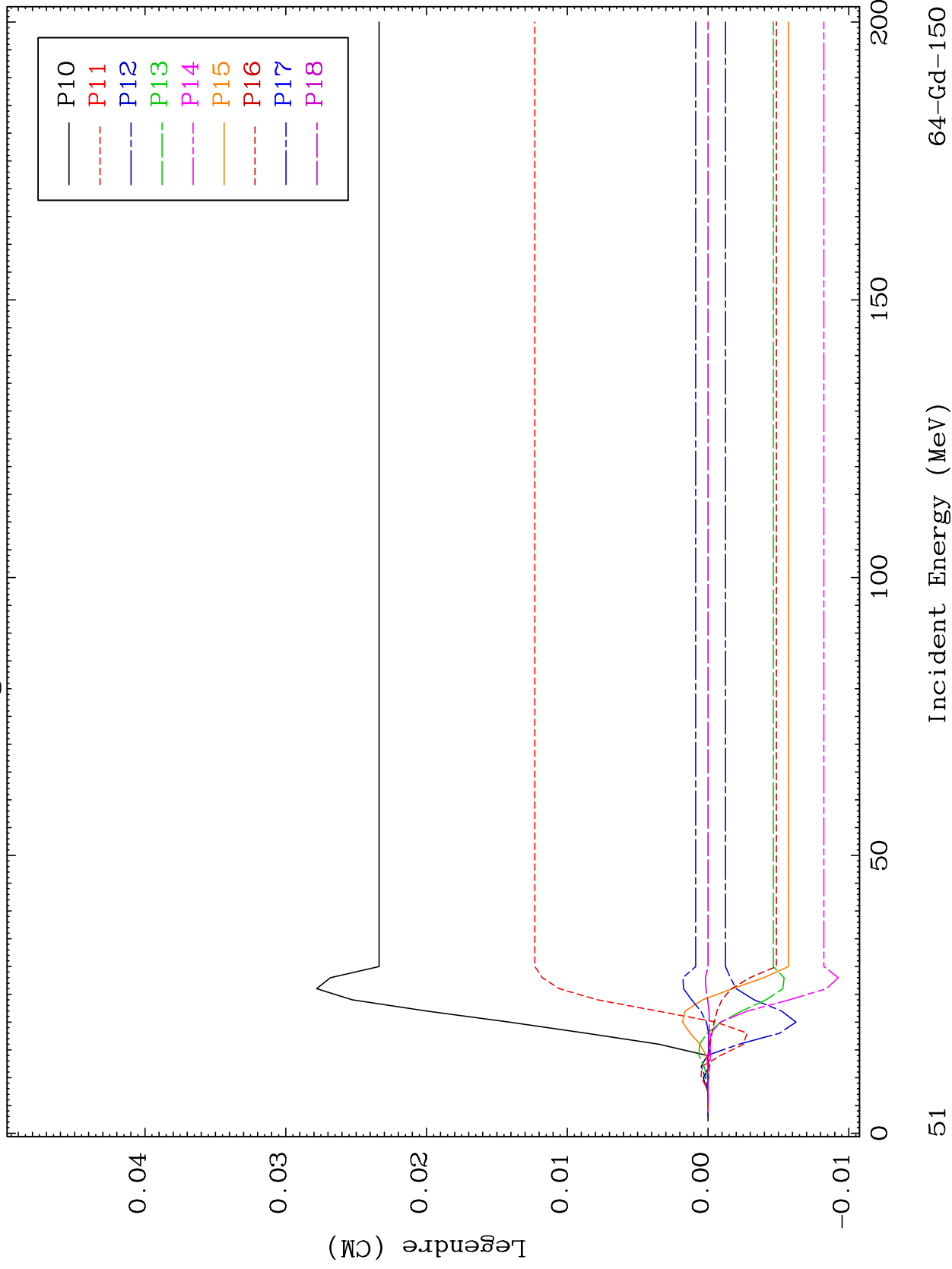




MAT 6419

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

64-Gd-150



51

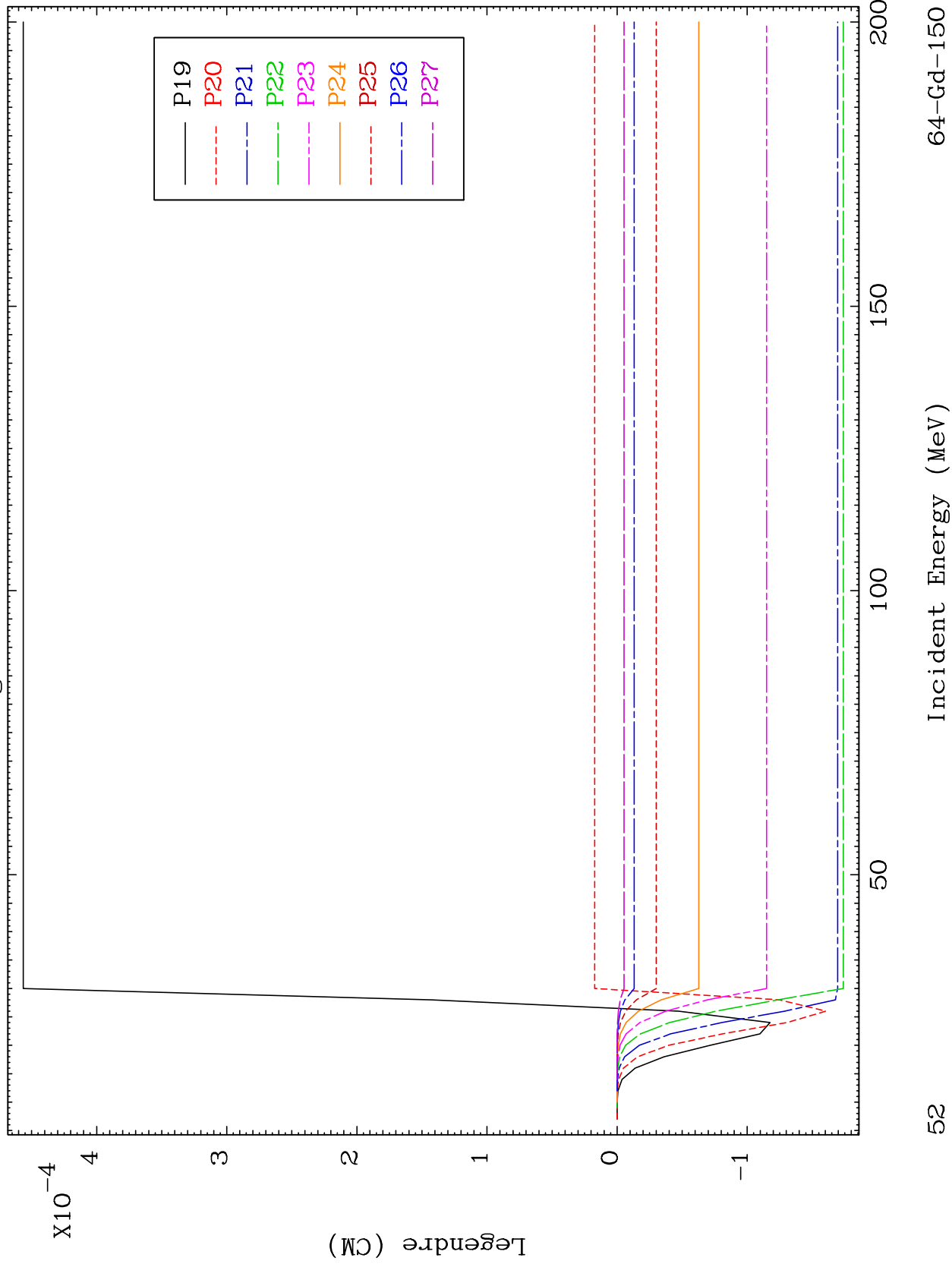
Incident Energy (MeV)

64-Gd-150

MAT 6419

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

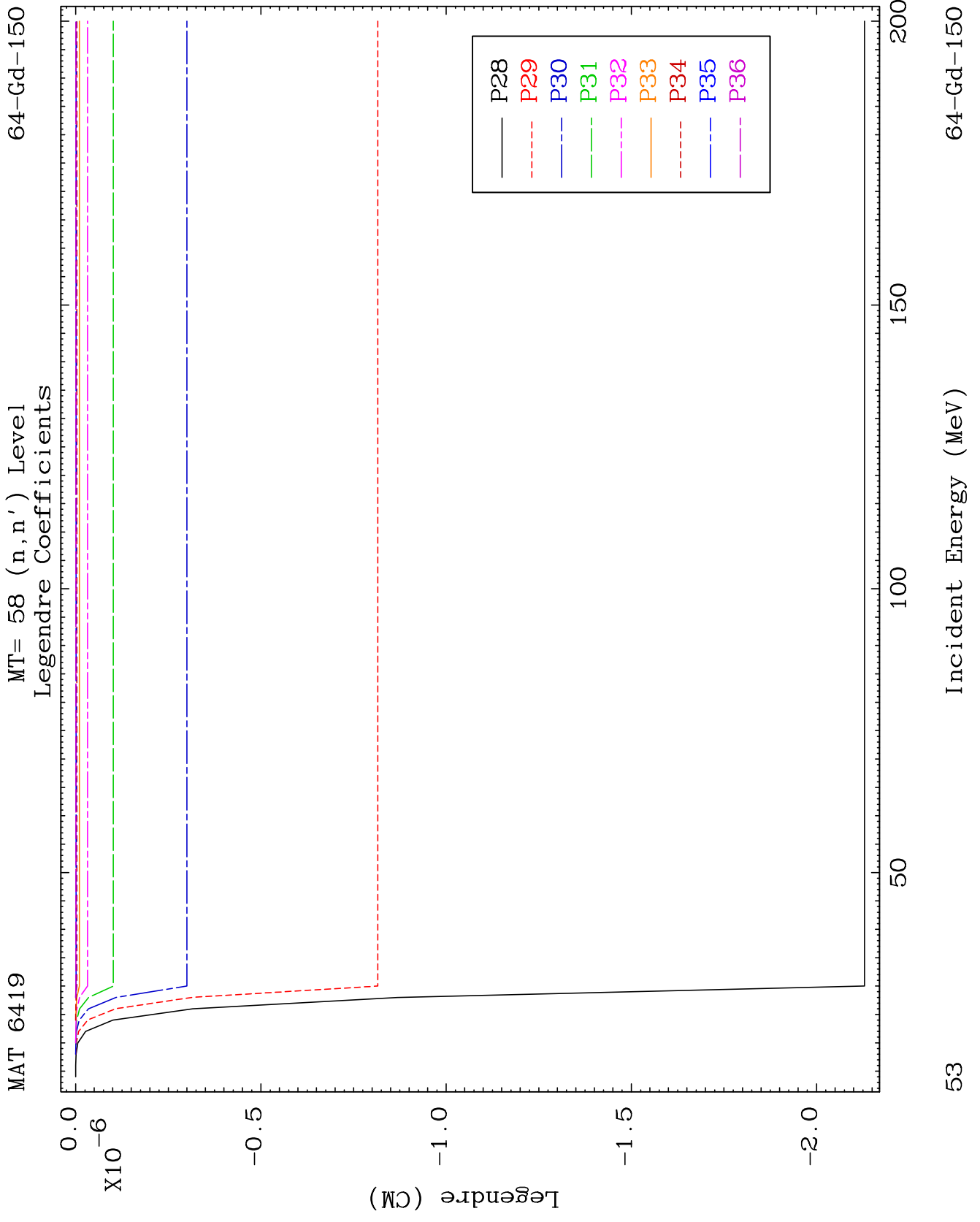
64-Gd-150



52

Incident Energy (MeV)

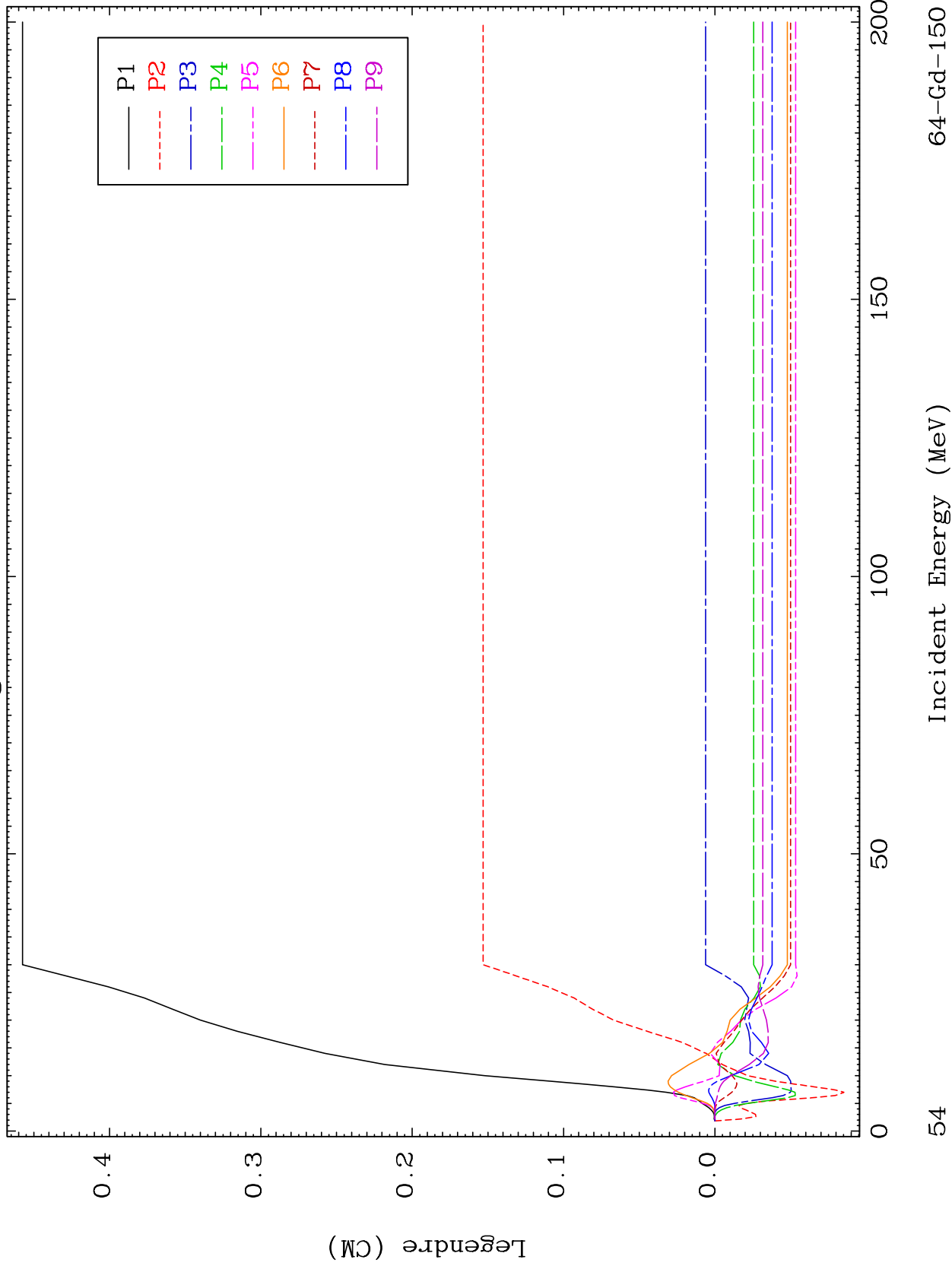
64-Gd-150



MAT 6419

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

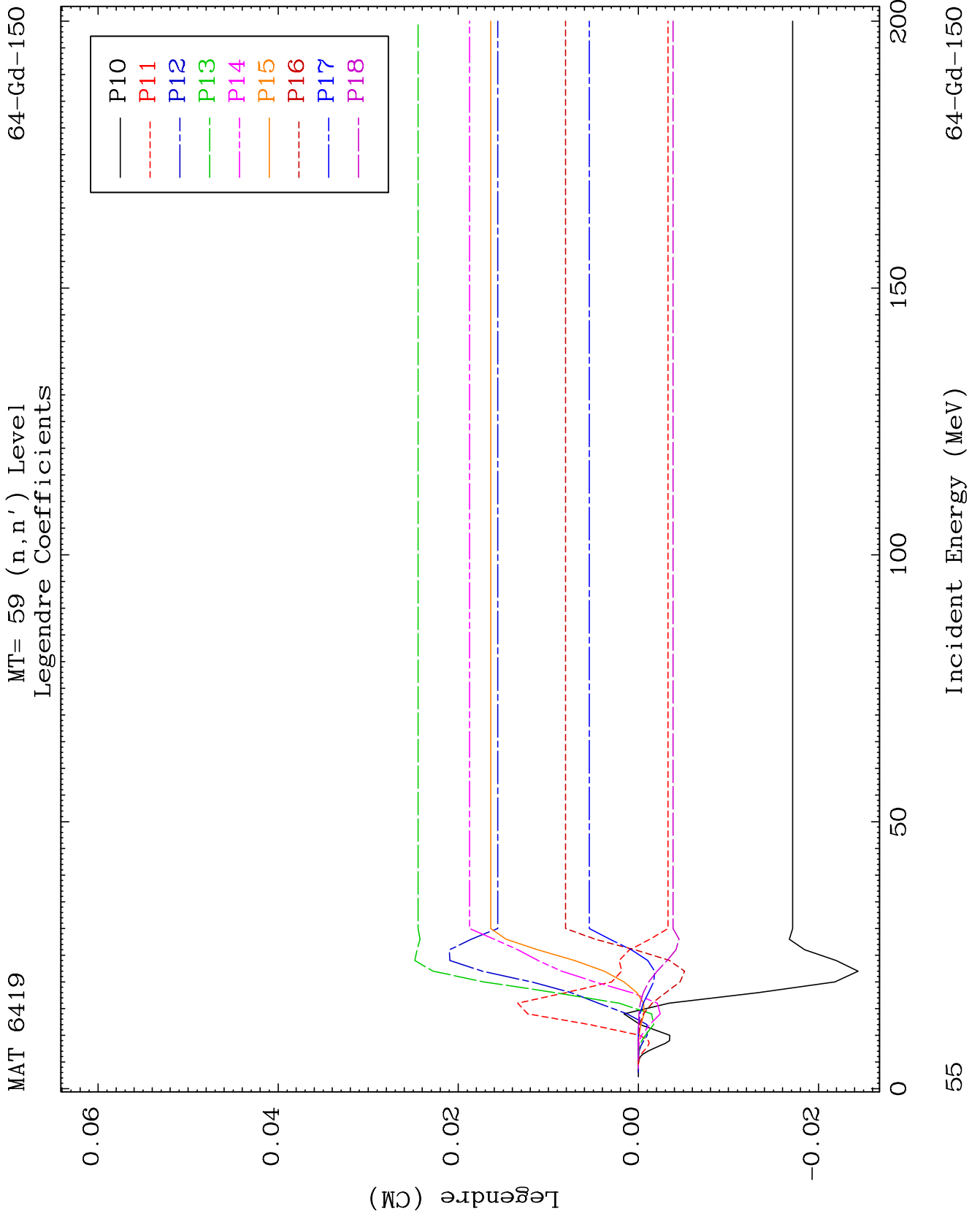
64-Gd-150



64-Gd-150

Incident Energy (MeV)

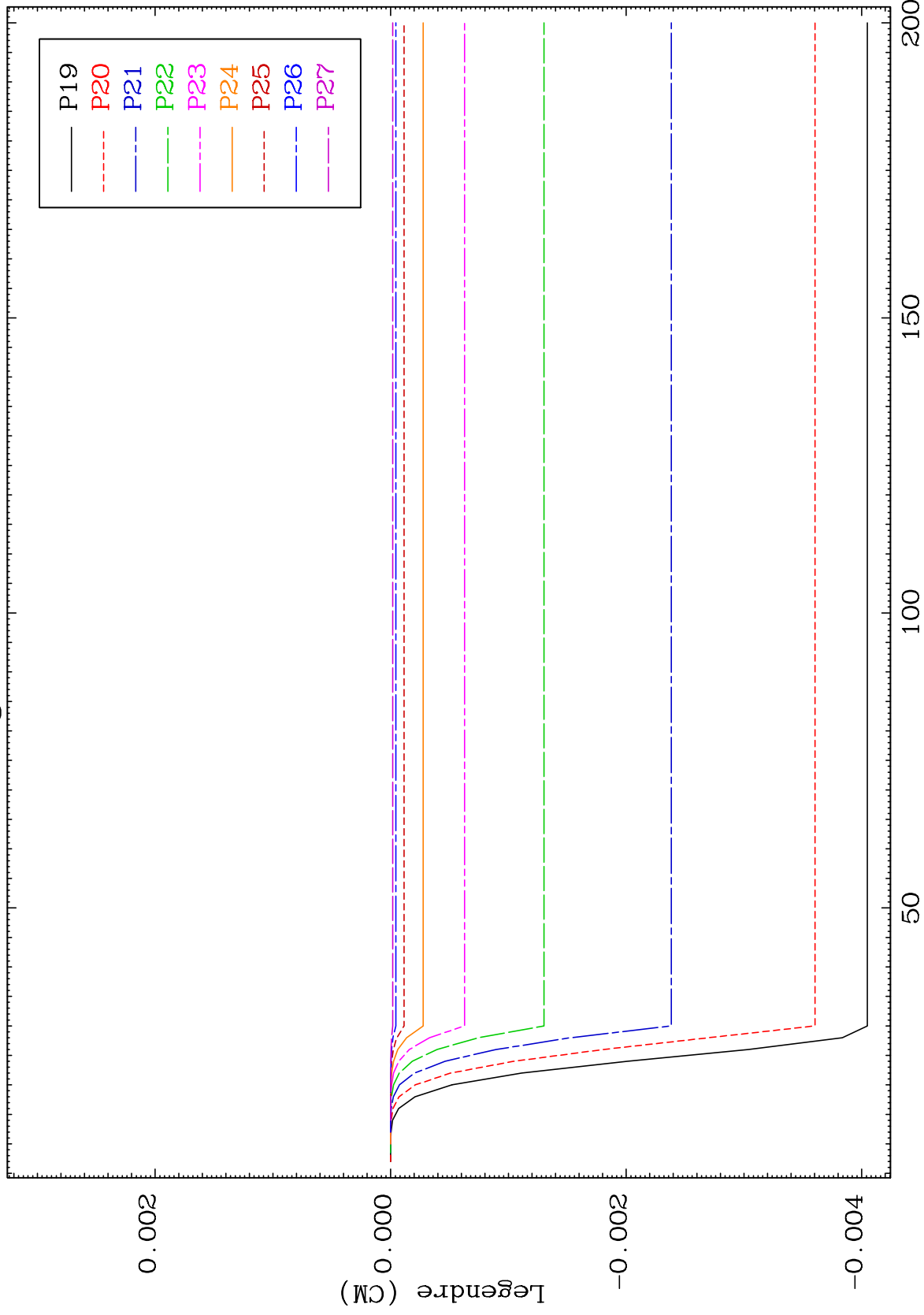
54



MAT 6419

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

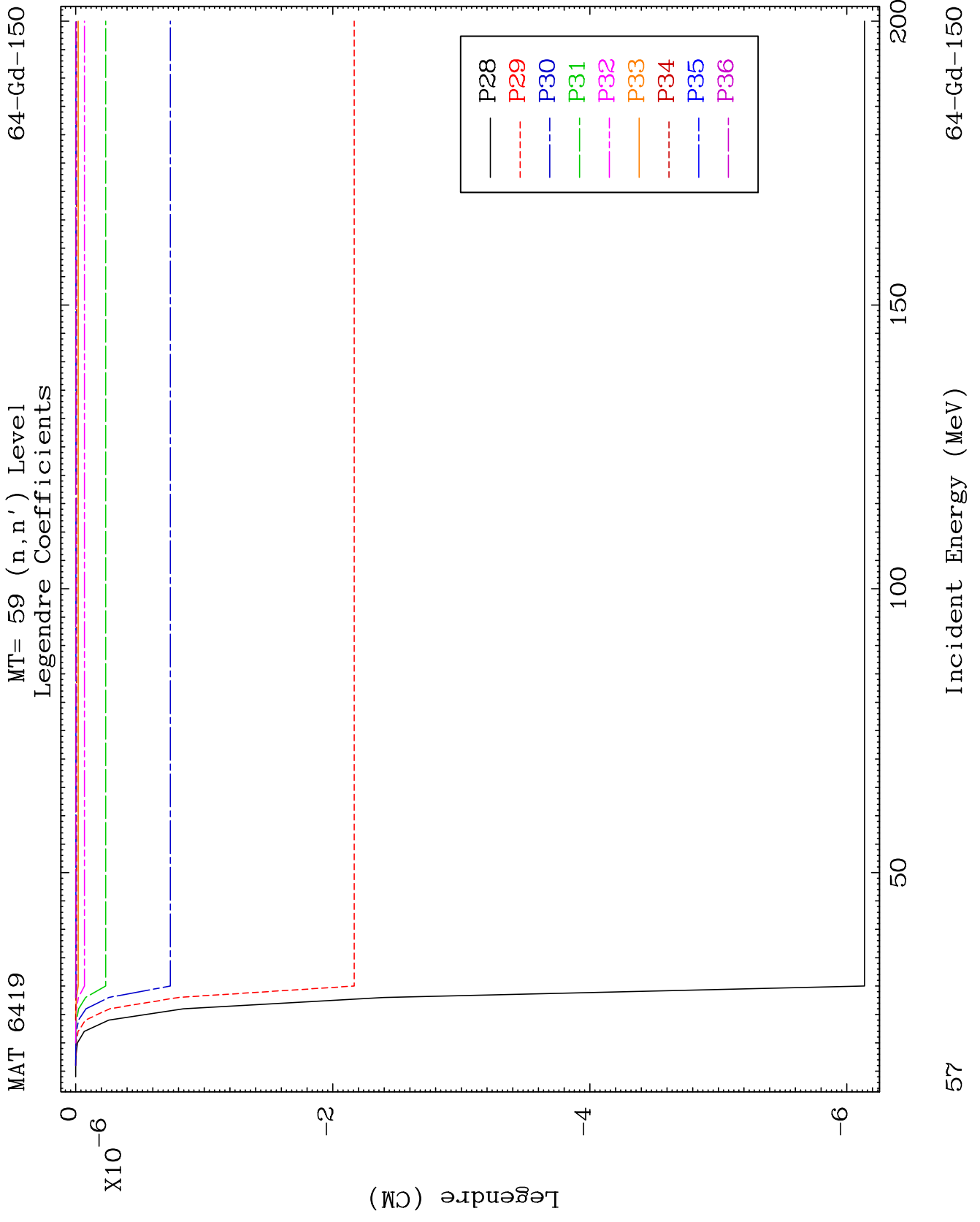
64-Gd-150

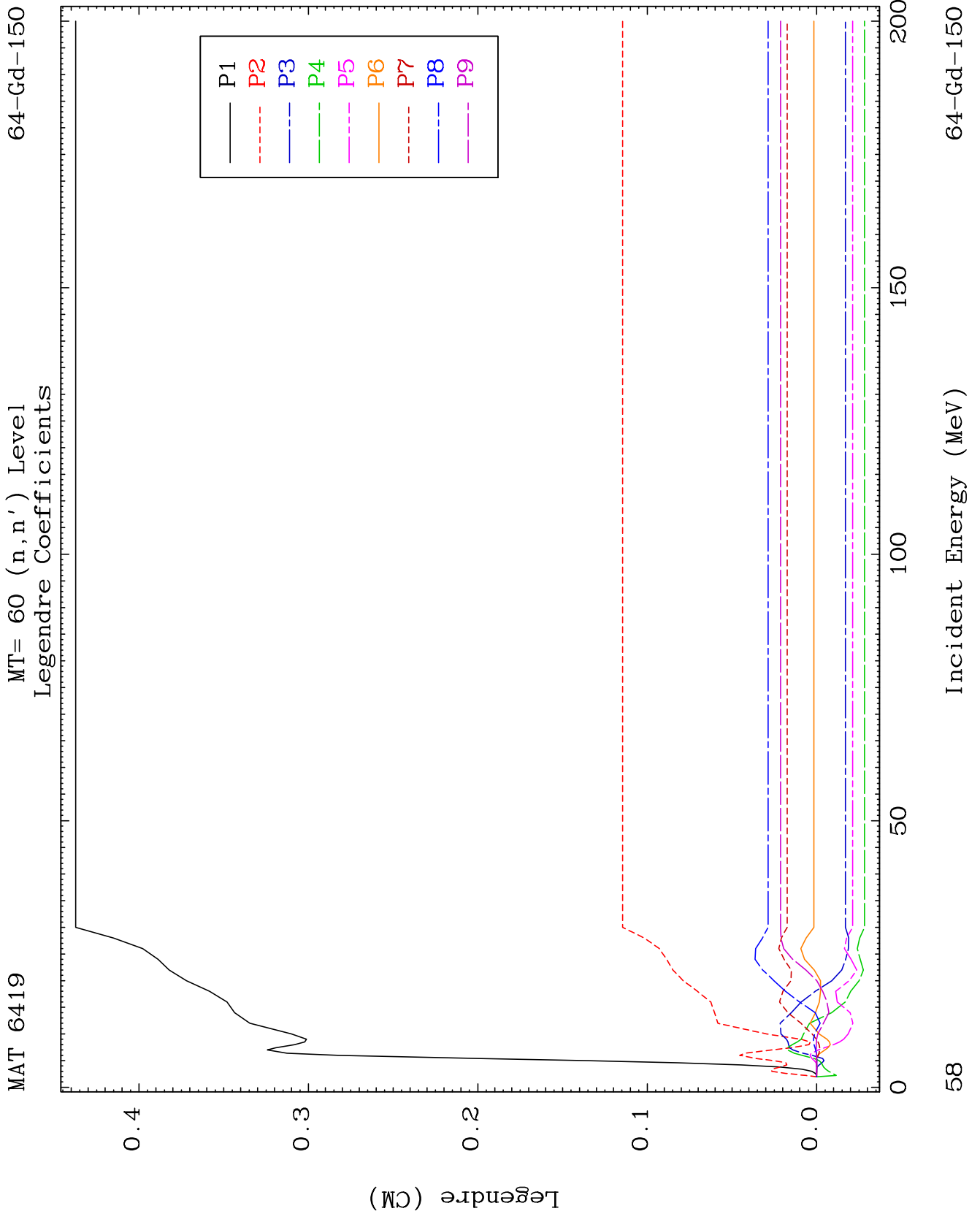


56

Incident Energy (MeV)

64-Gd-150

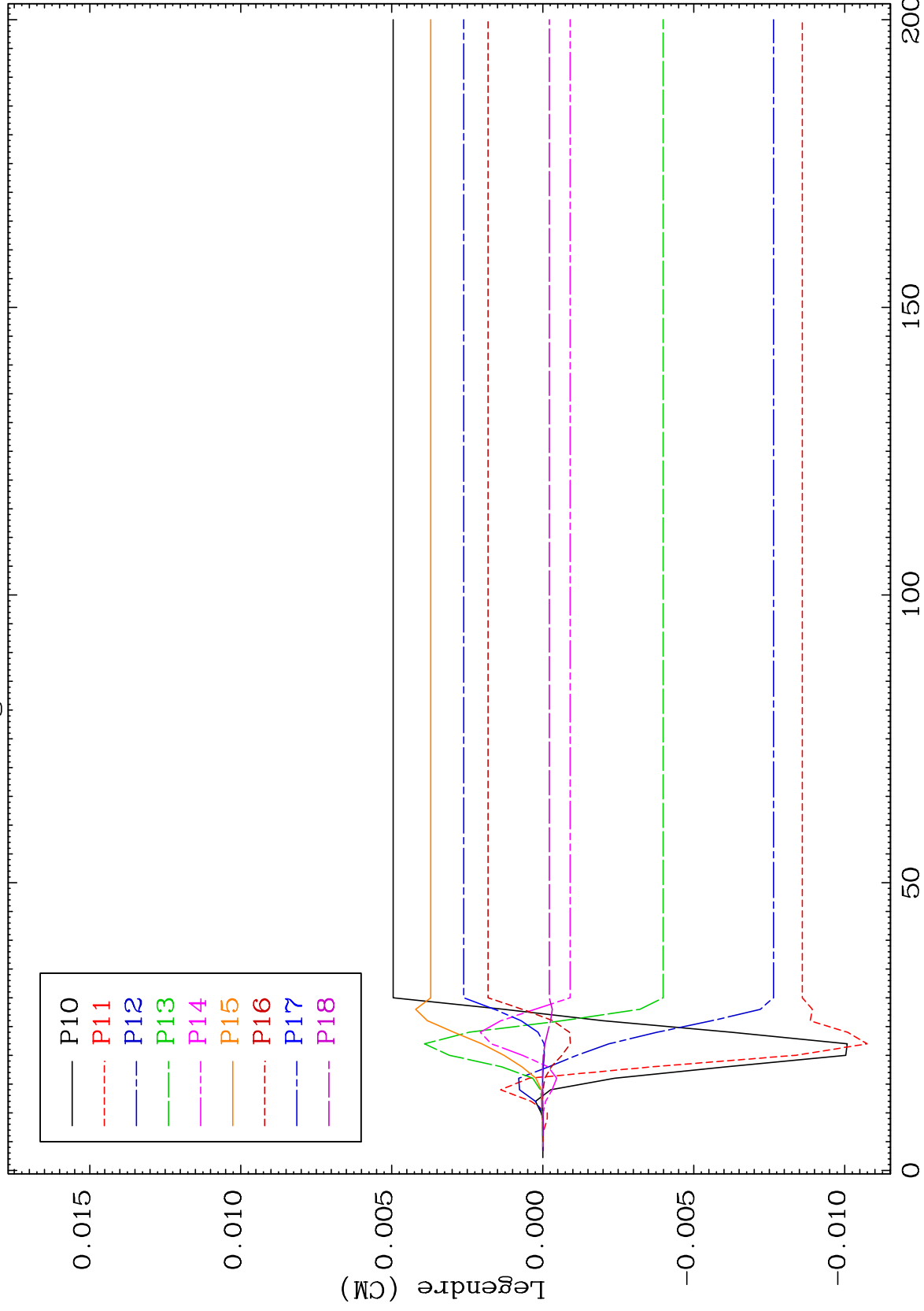




MAT 6419

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

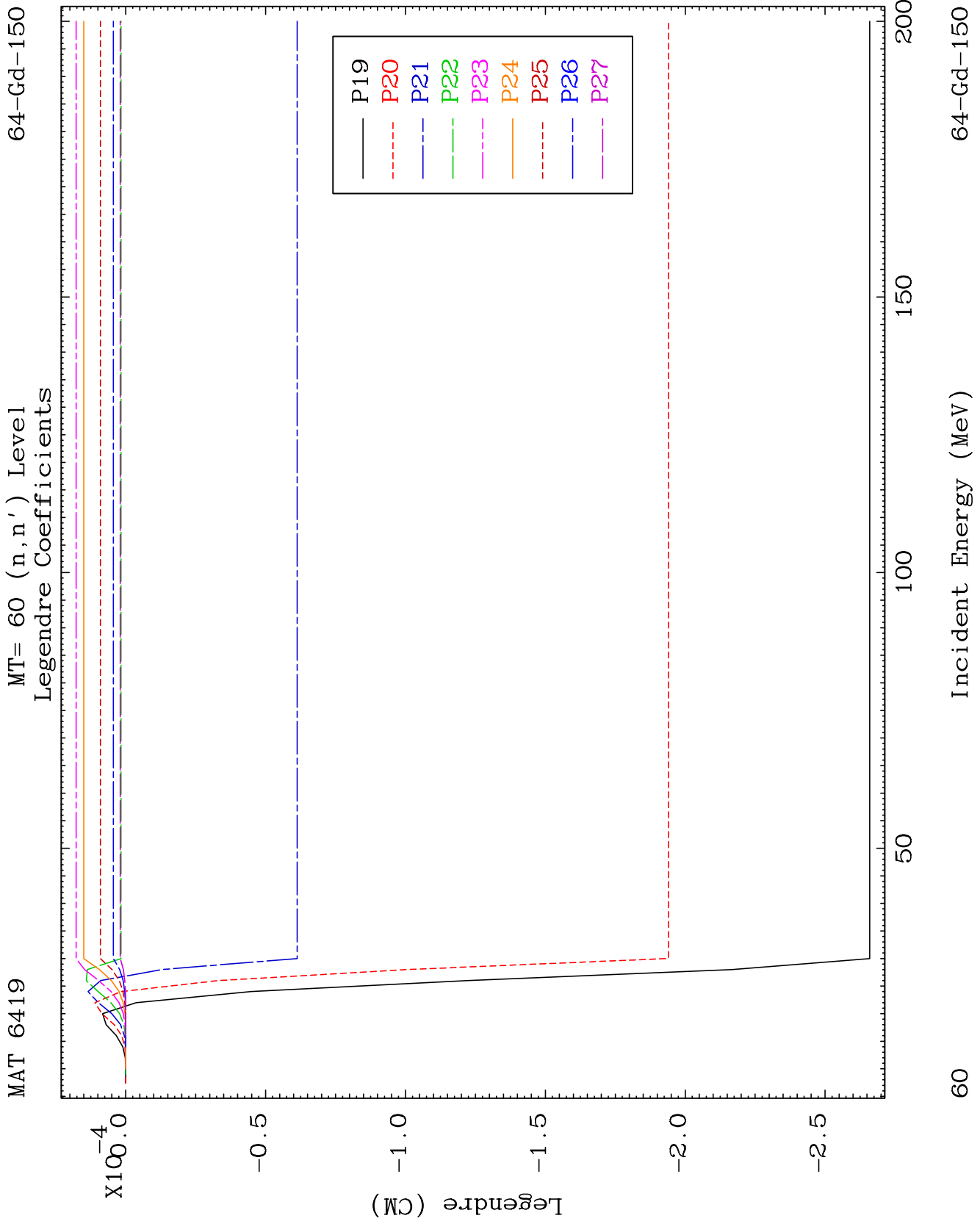
64-Gd-150



59

64-Gd-150

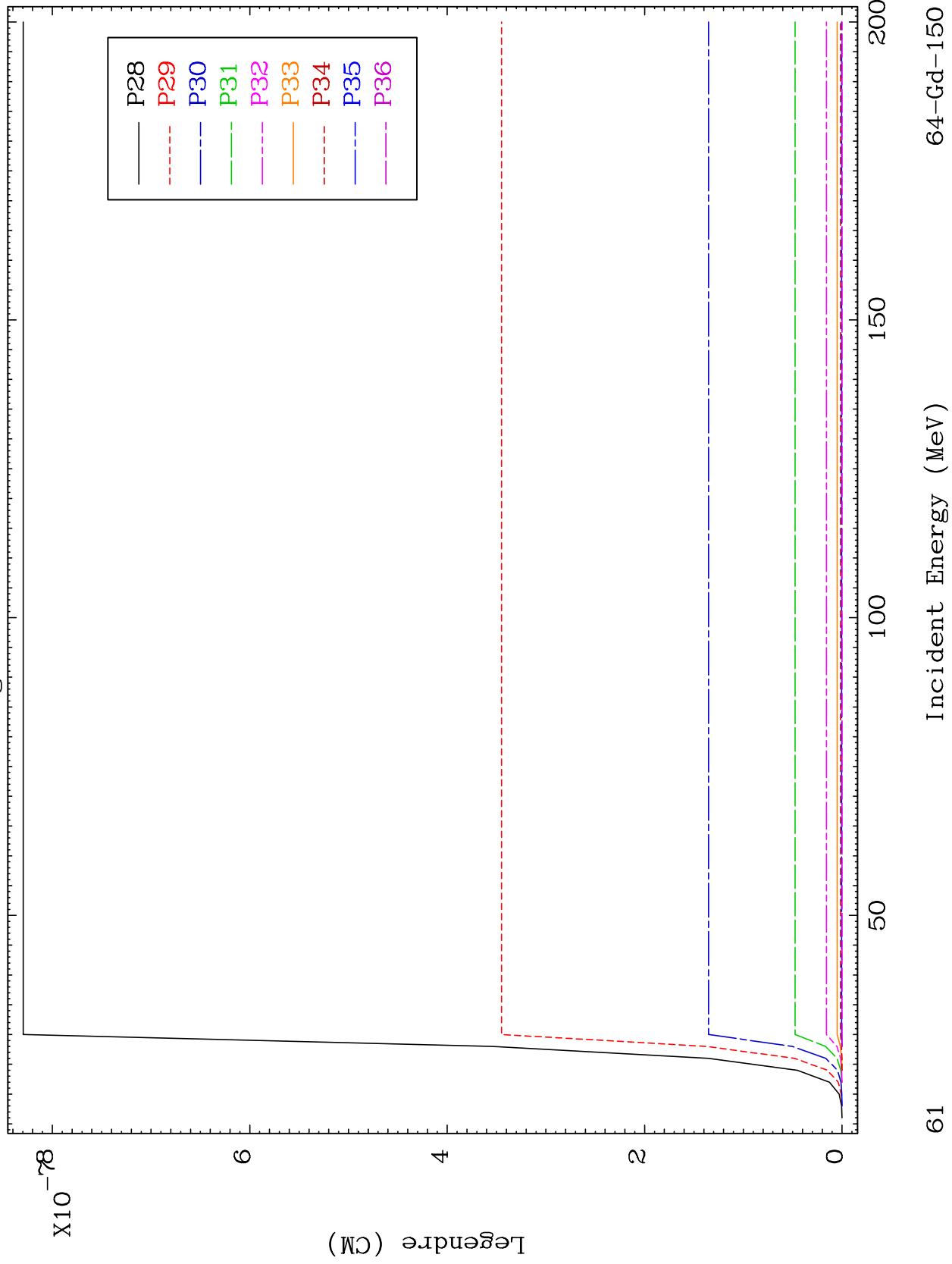
64-Gd-150



MAT 6419

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

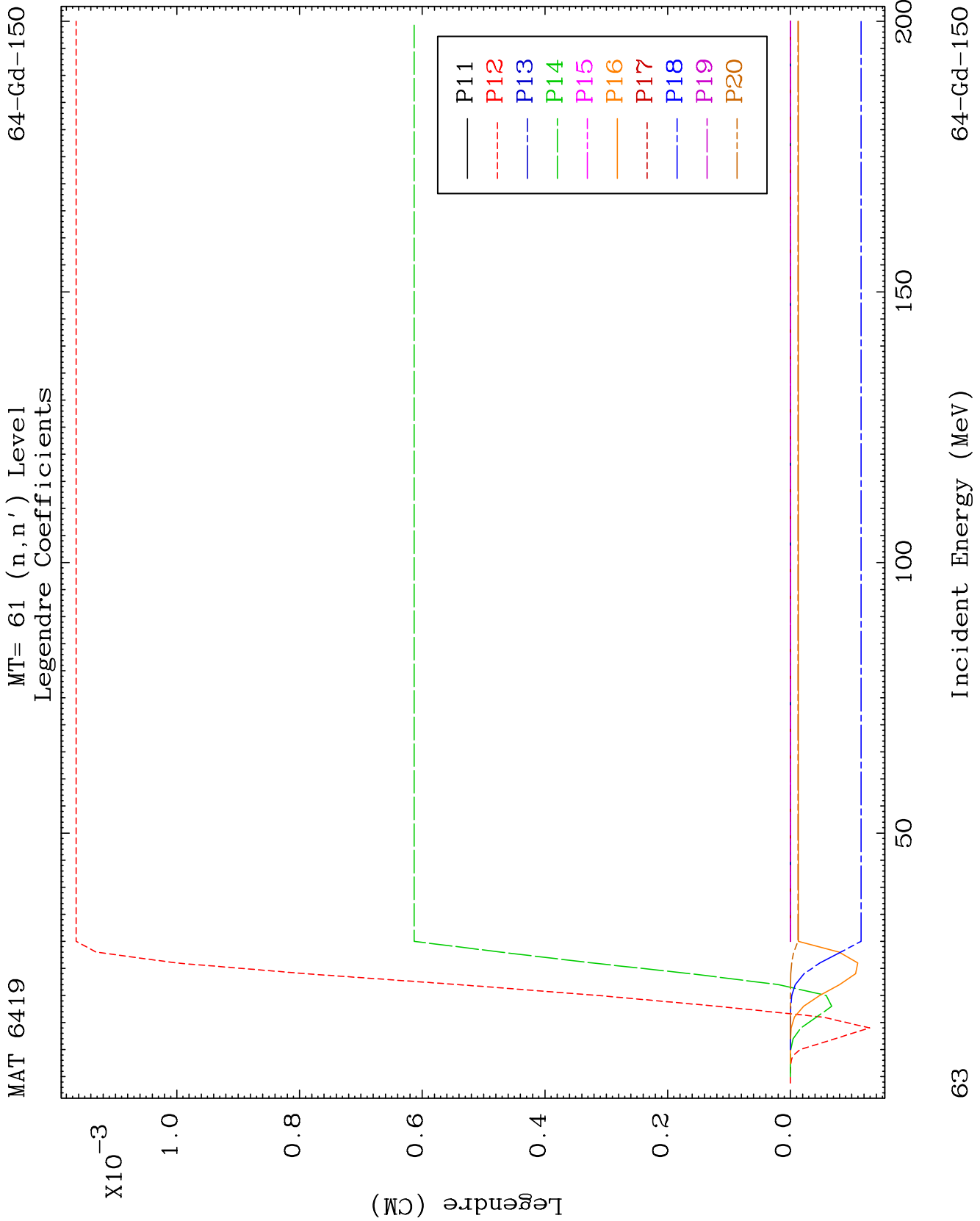
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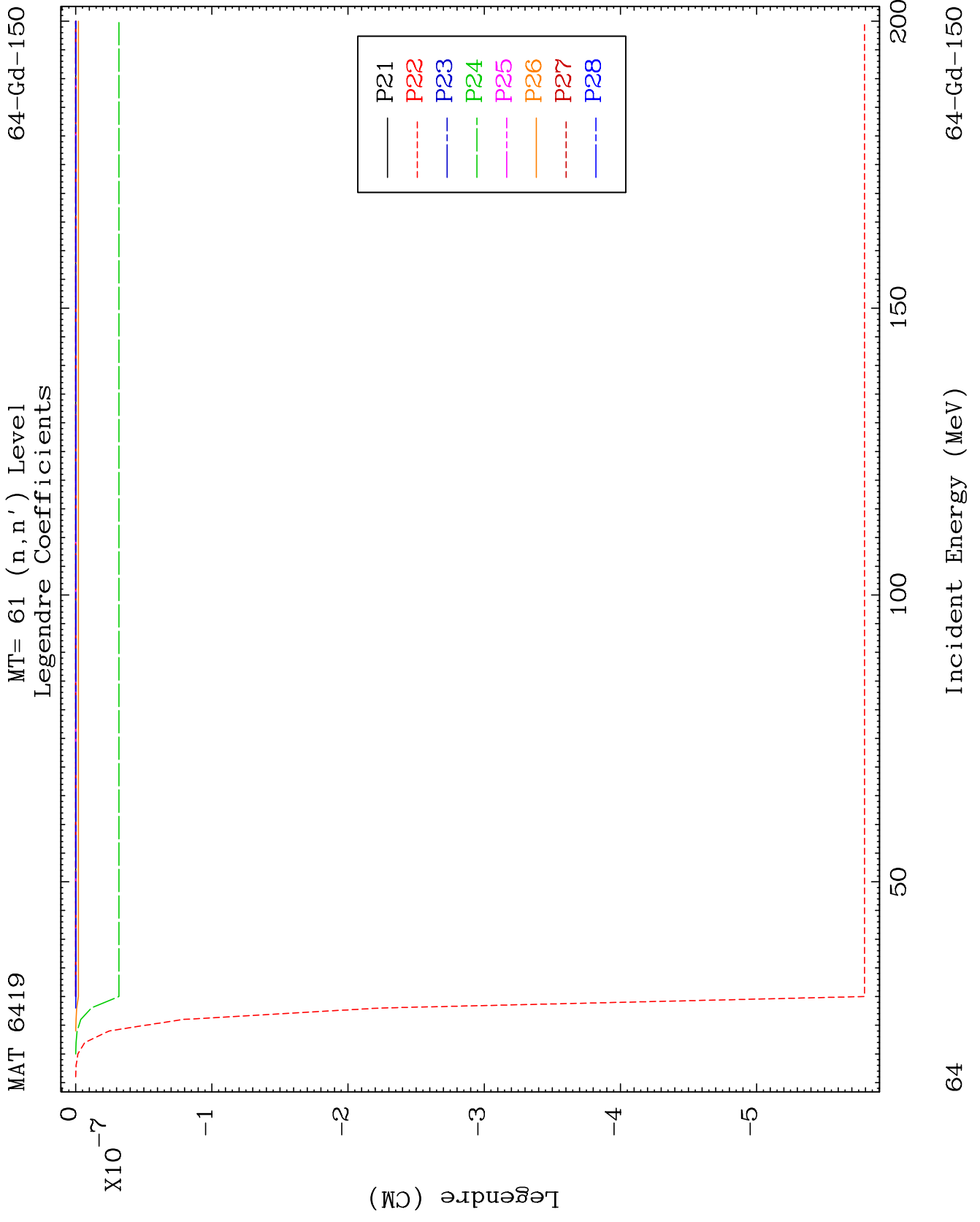


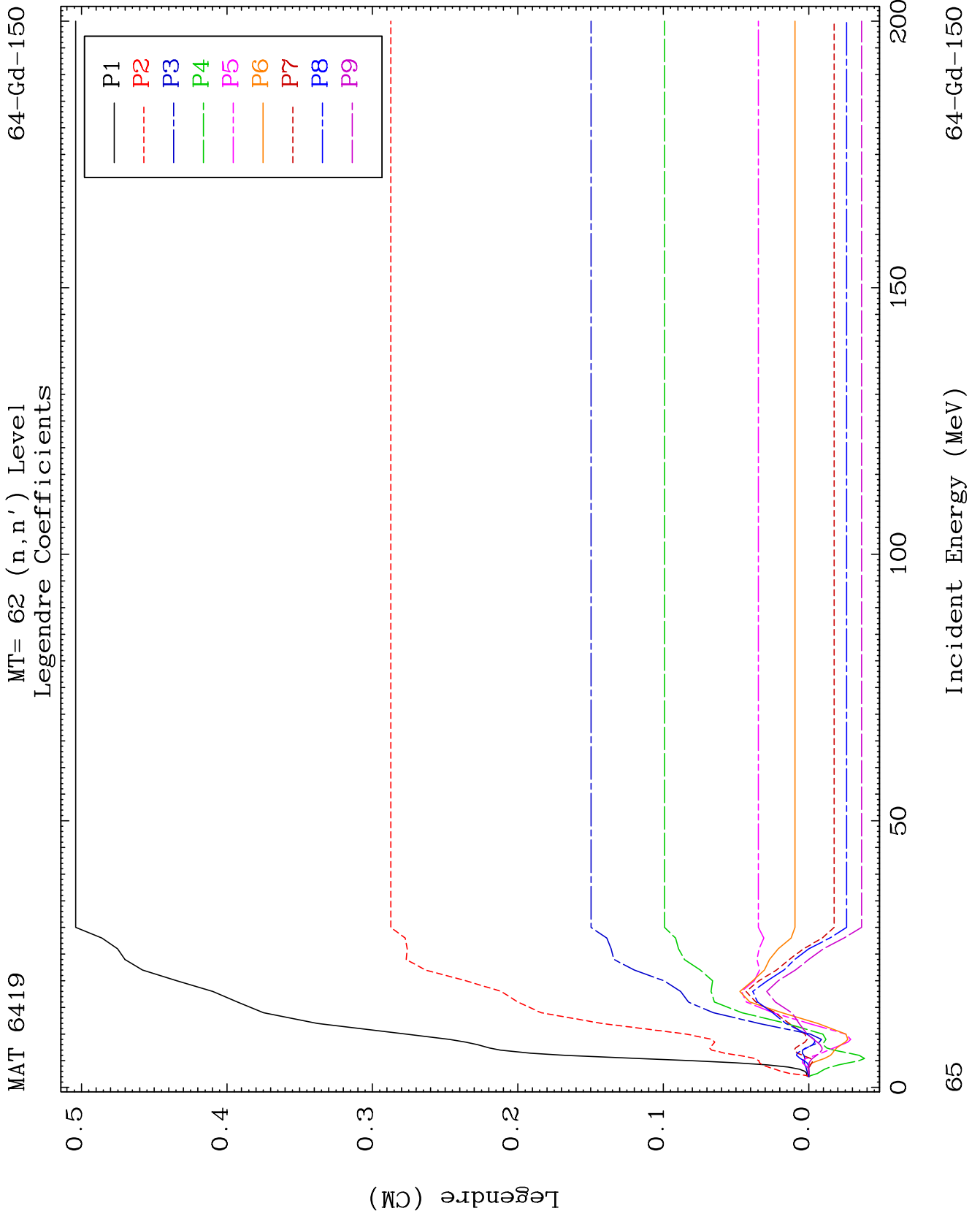
61

Incident Energy (MeV)

64-Gd-150



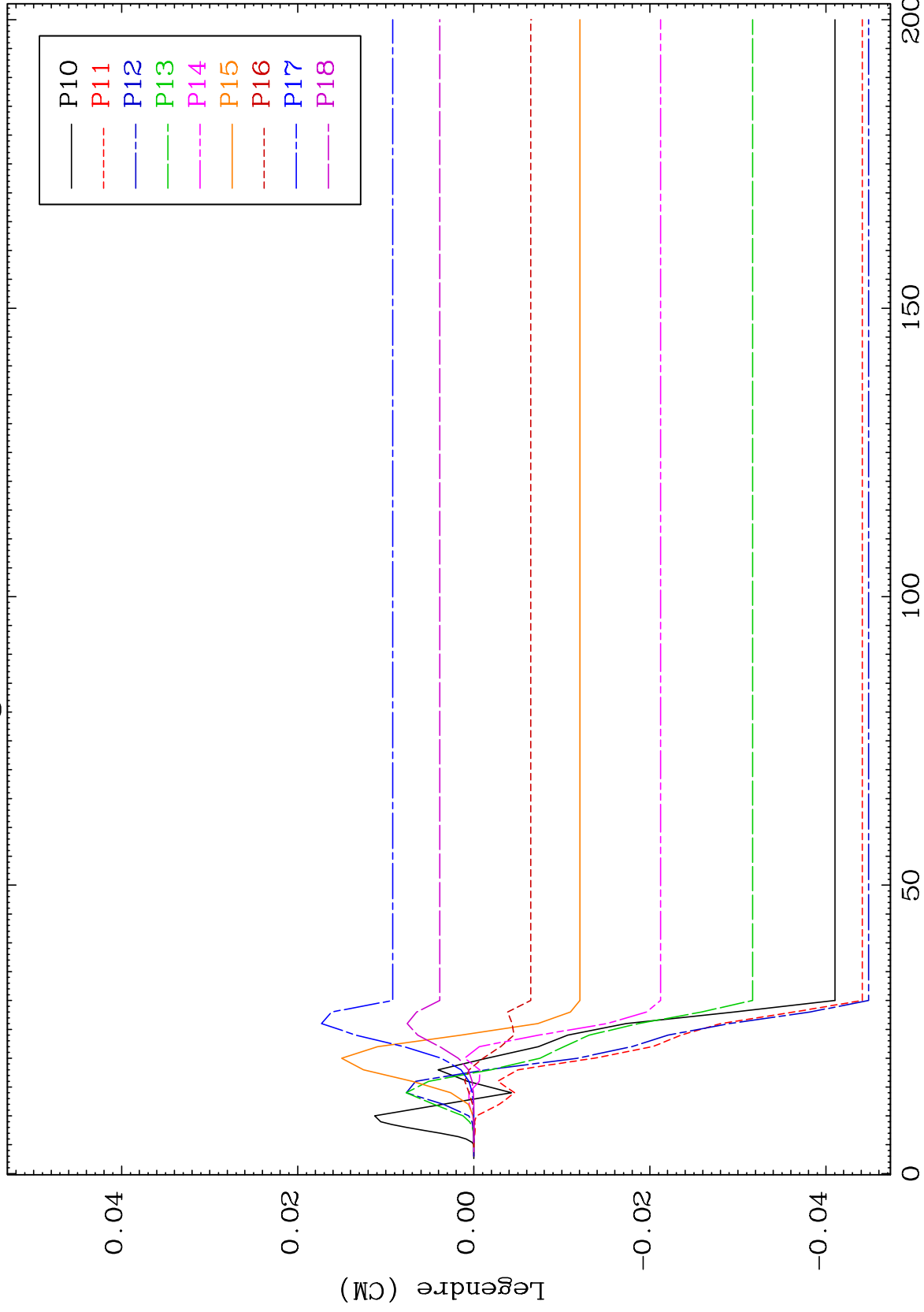




MAT 6419

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

64-Gd-150



66

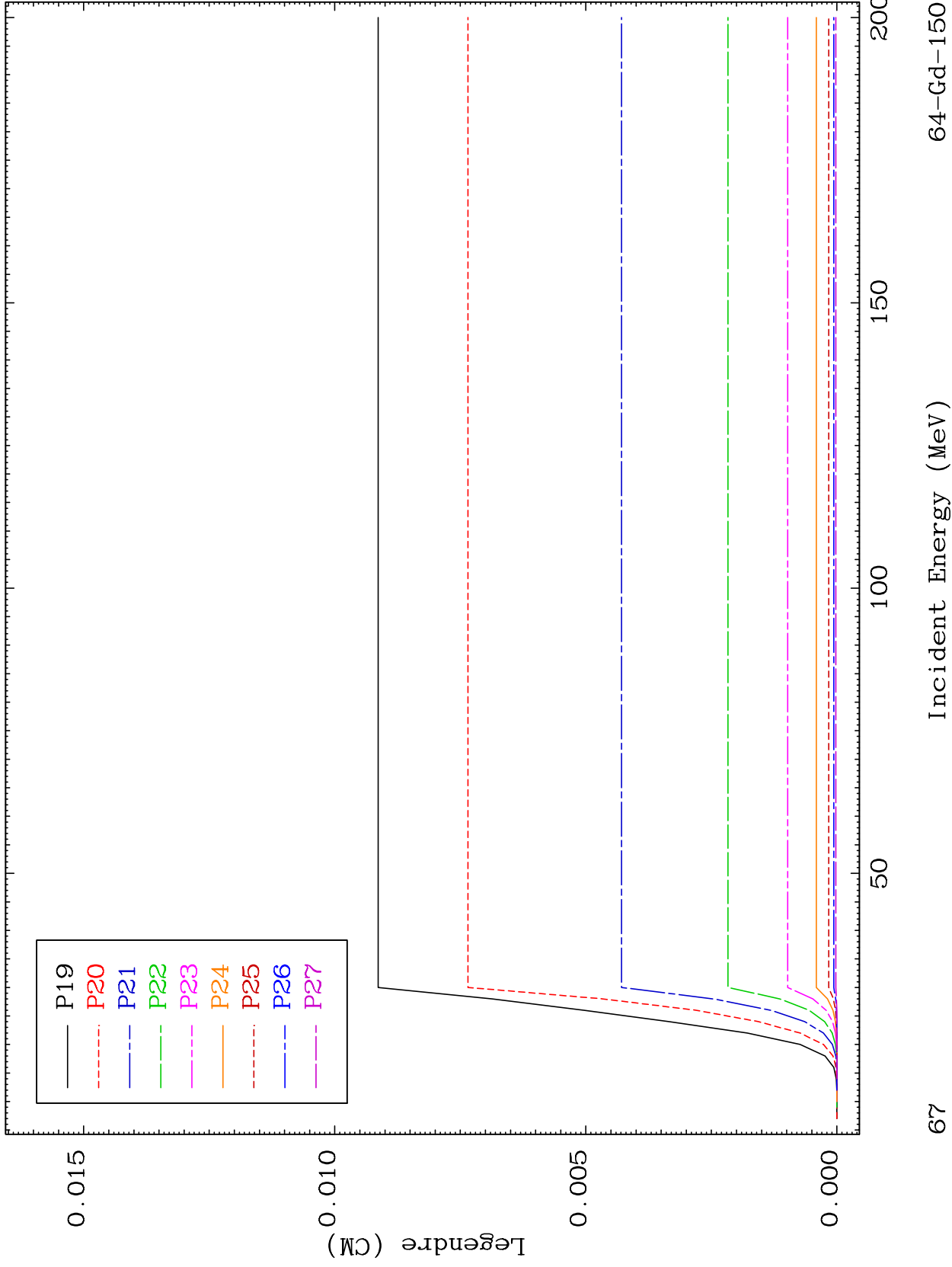
Incident Energy (MeV)

64-Gd-150

MAT 6419

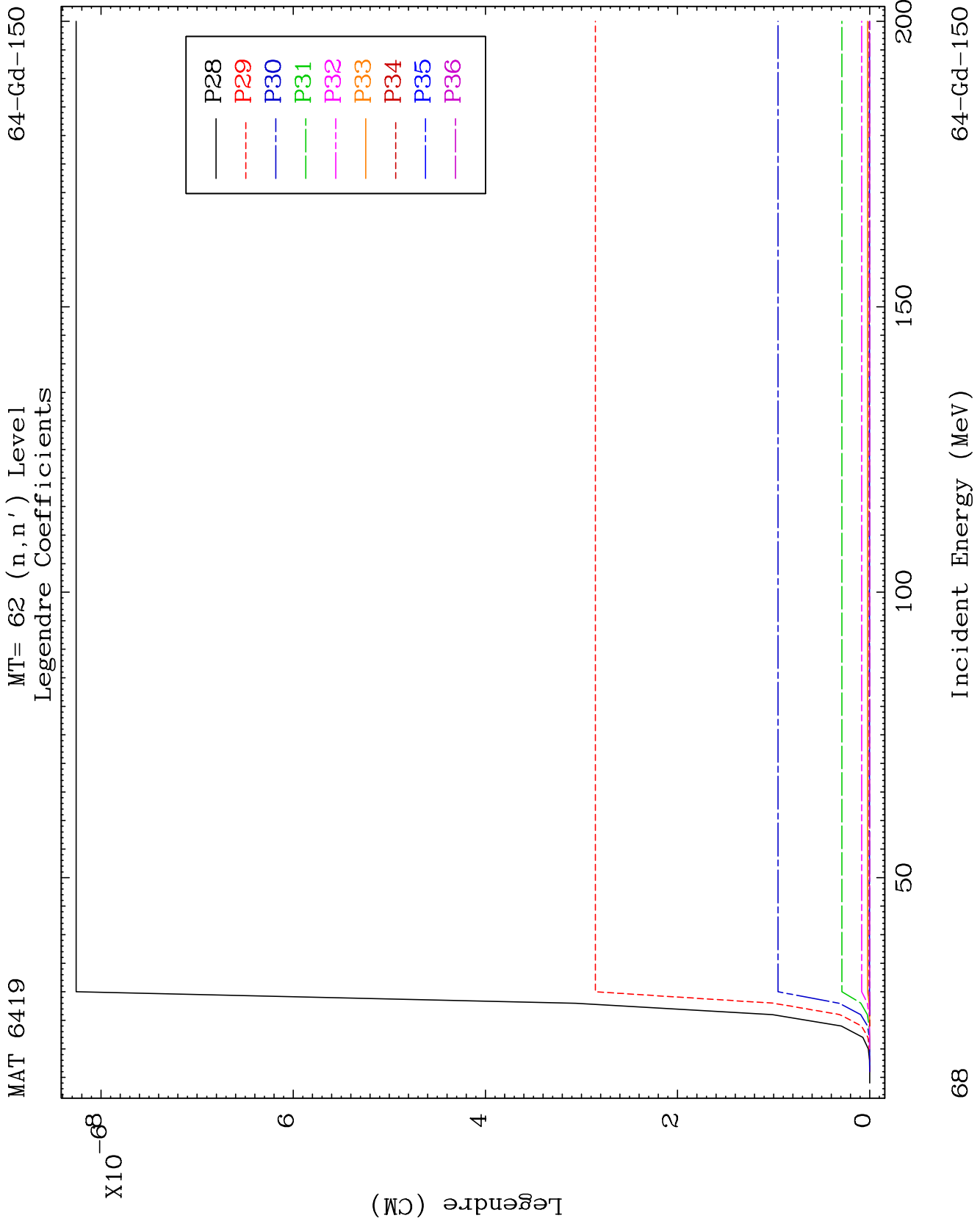
MT= 62 (n,n') Level
Legendre Coefficients

64-Gd-150



67

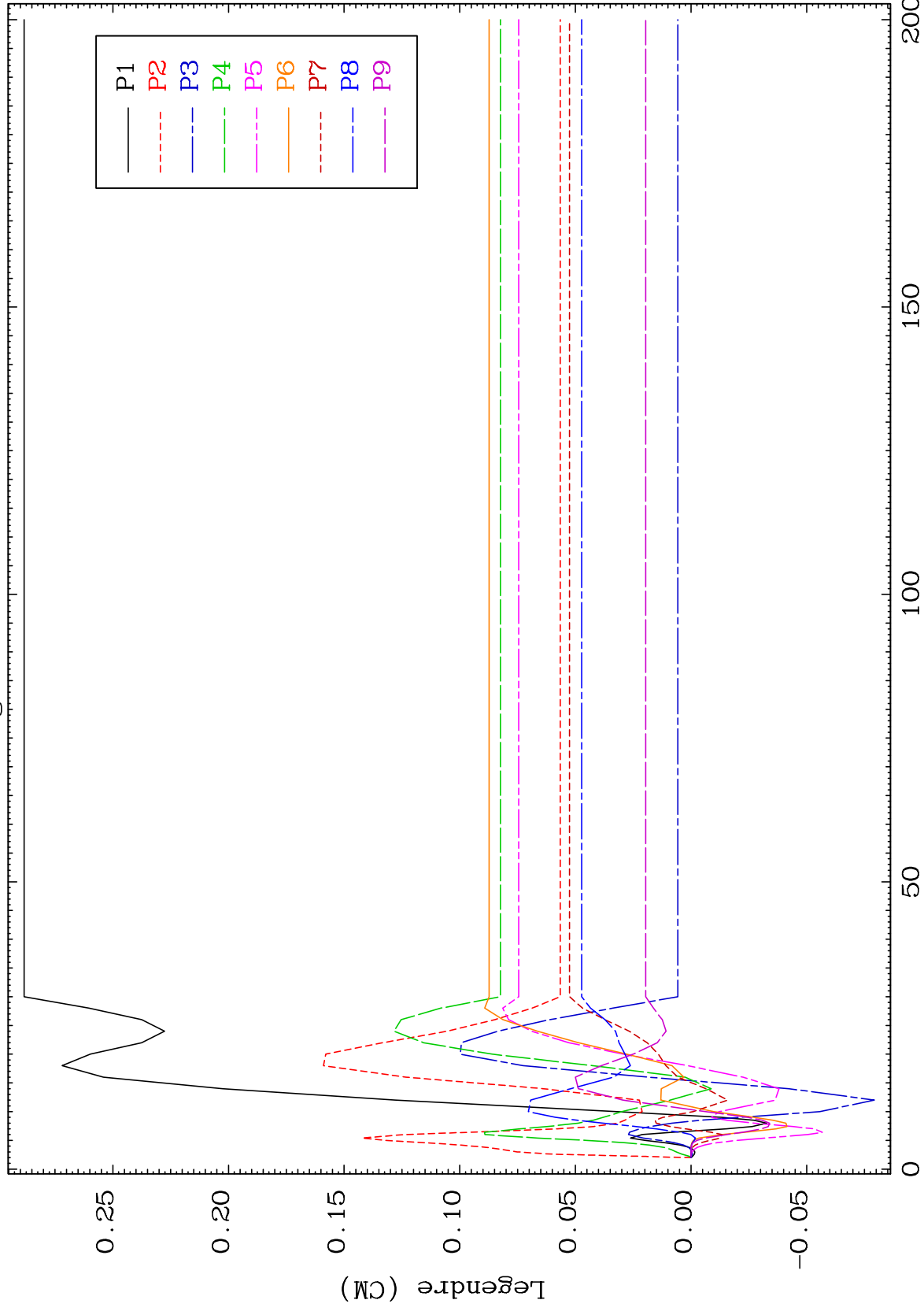
64-Gd-150



MAT 6419

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

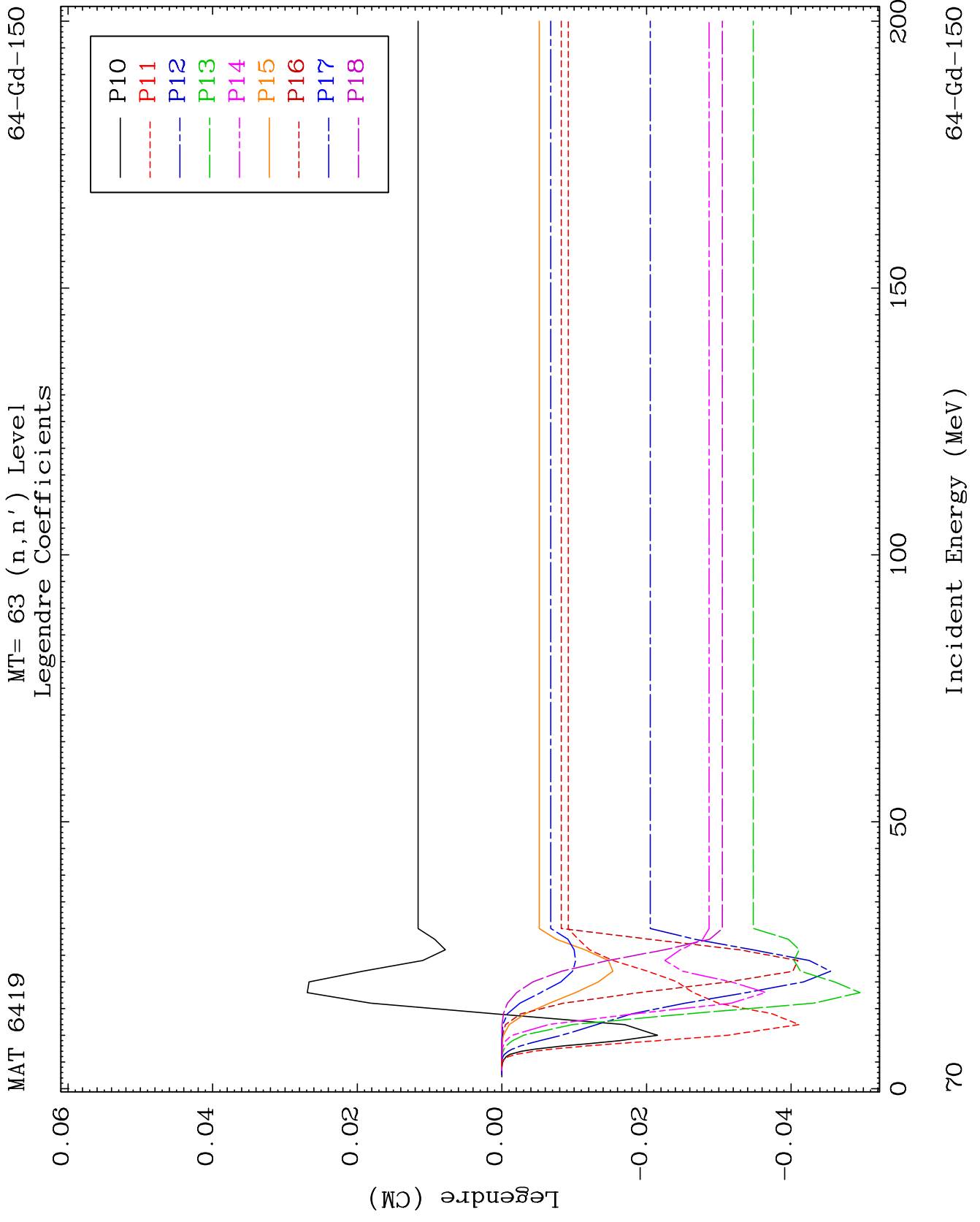
64-Gd-150



69

Incident Energy (MeV)

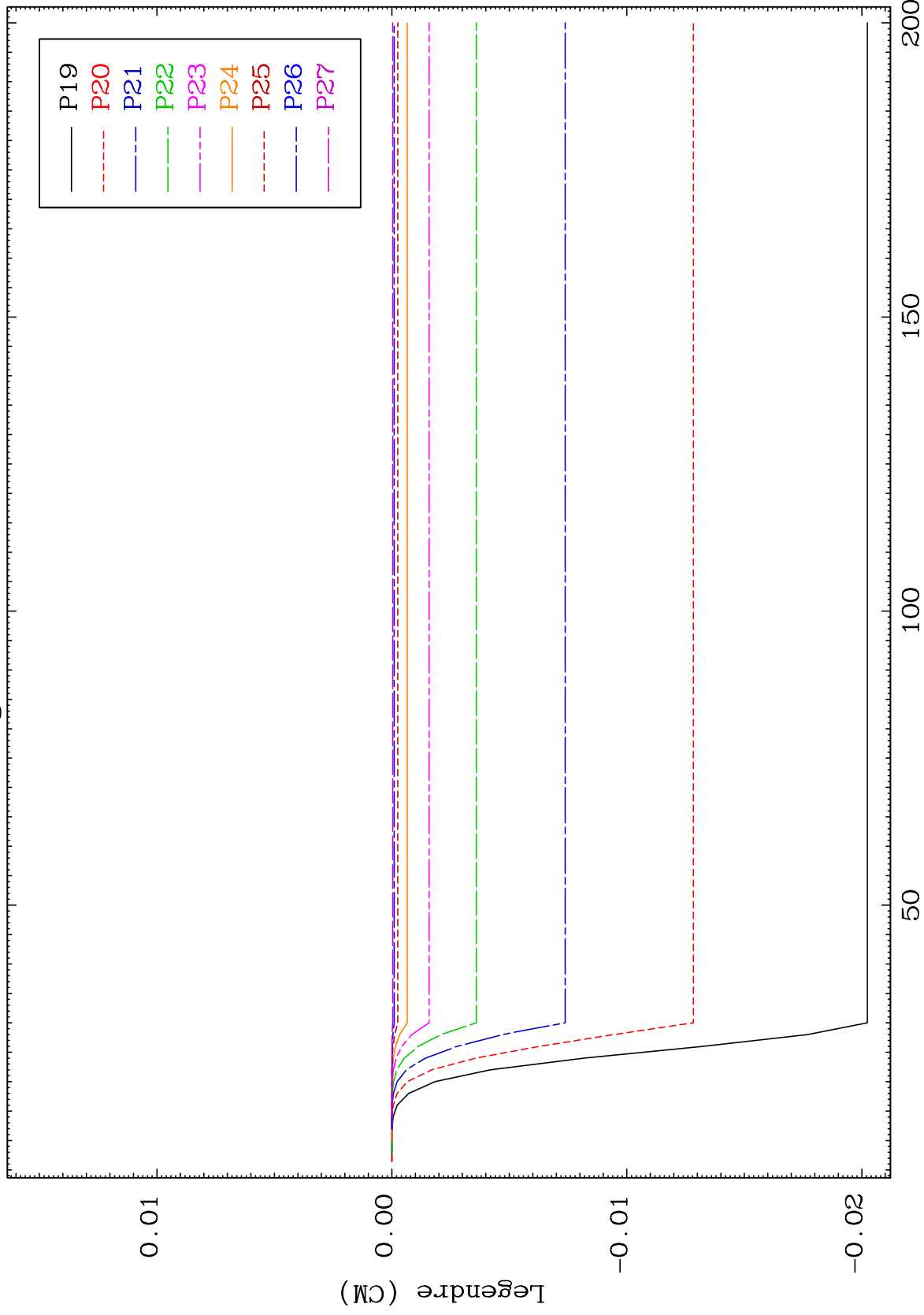
64-Gd-150



MAT 6419

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

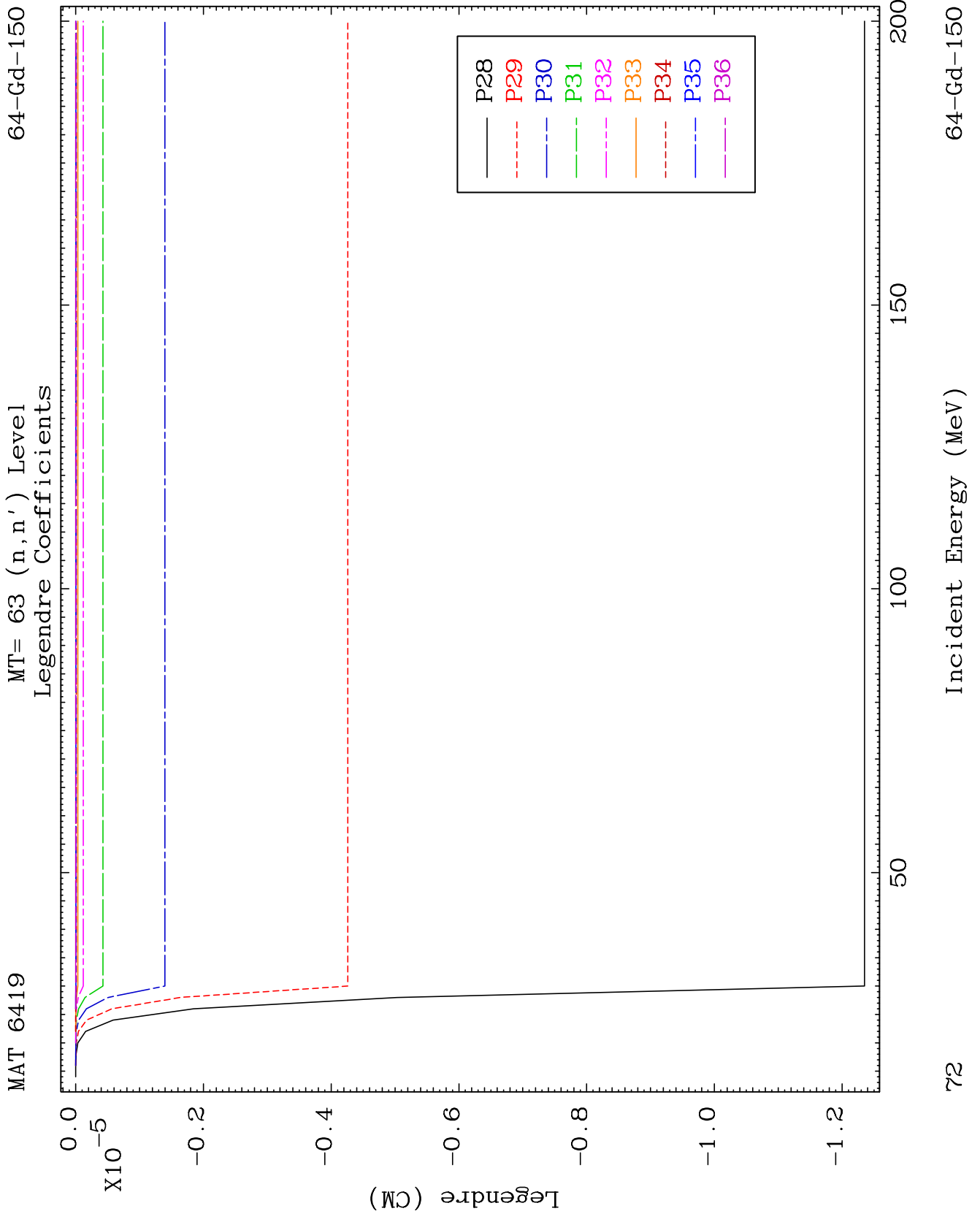
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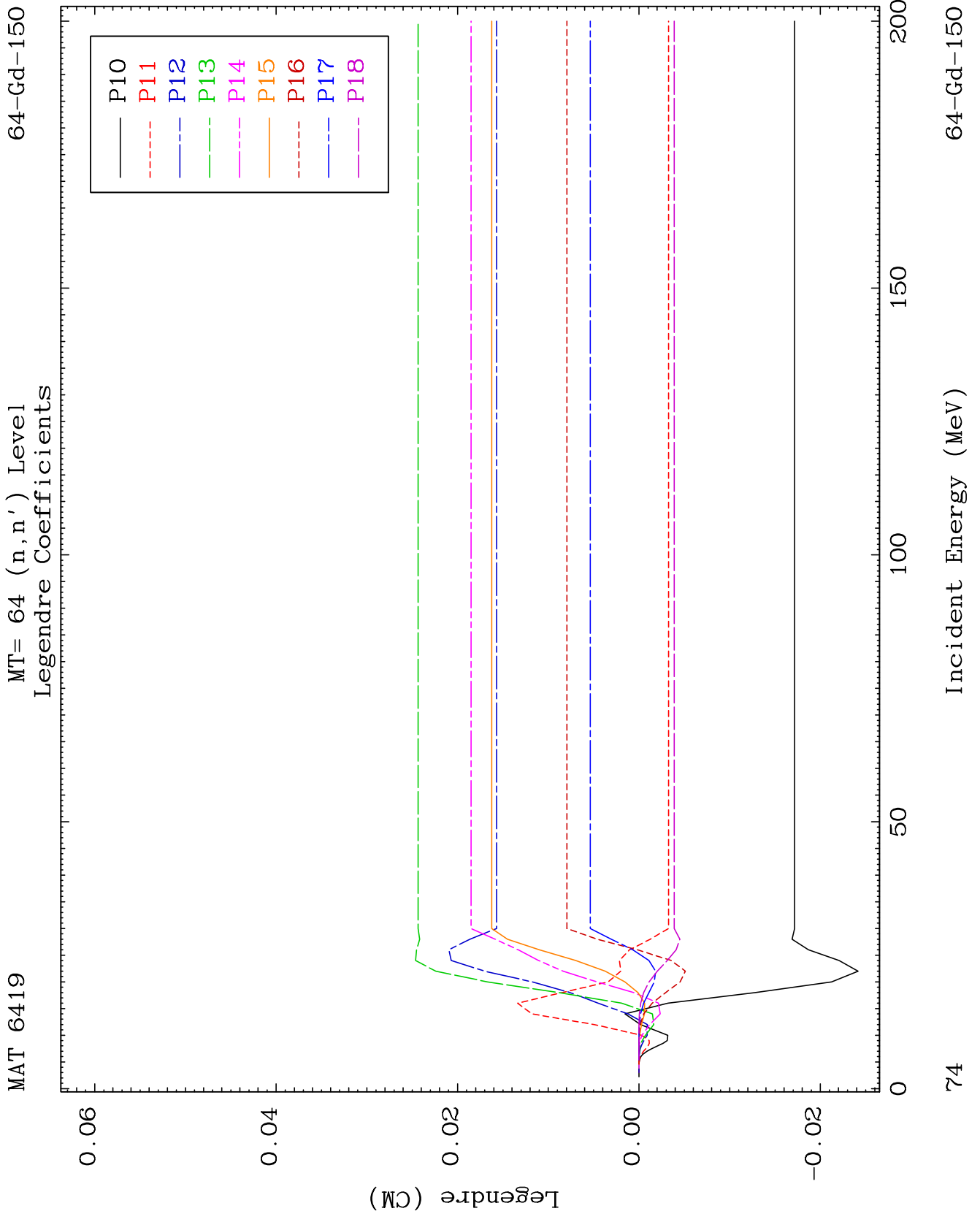


71

Incident Energy (MeV)

64-Gd-150

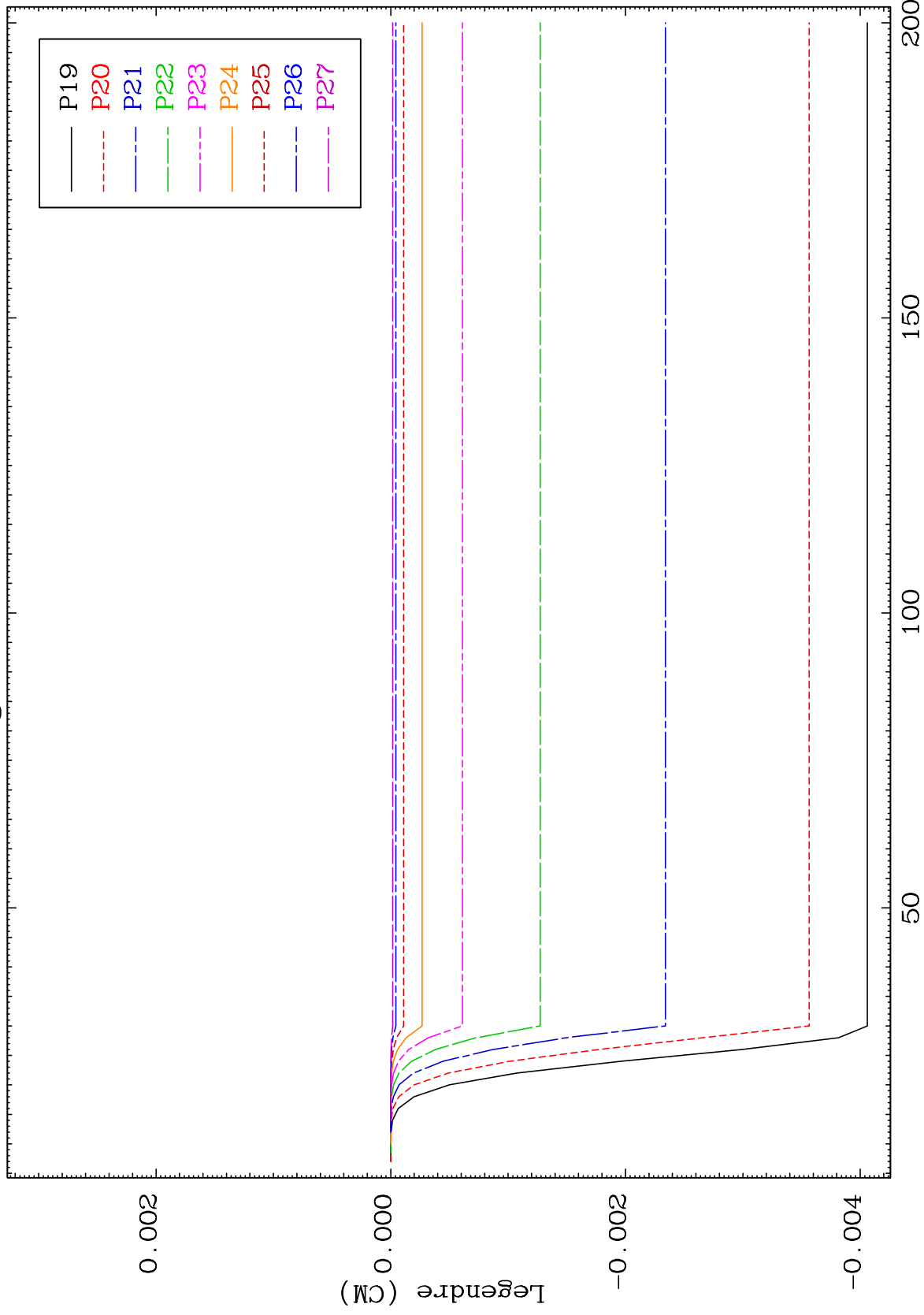




MAT 6419

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

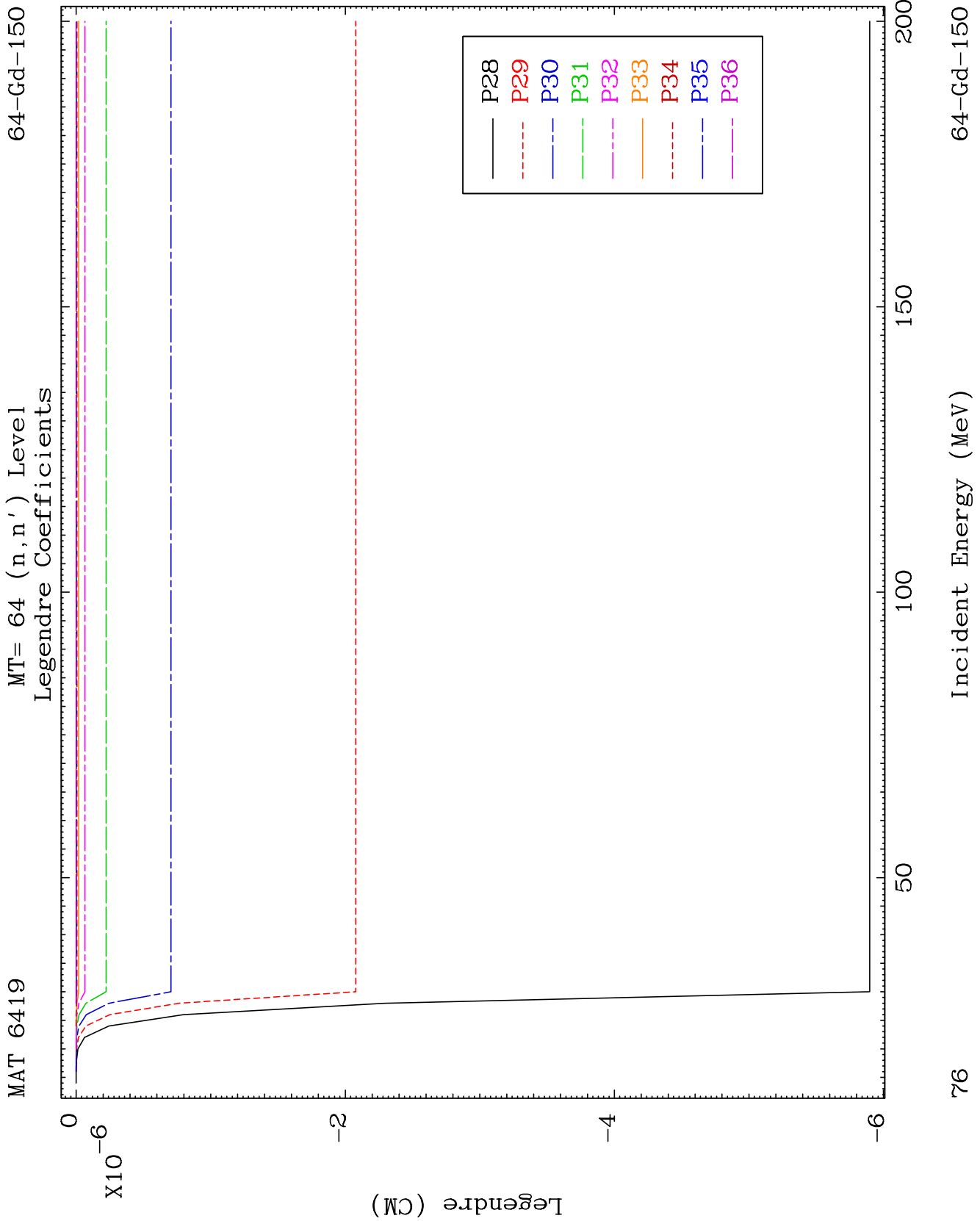
64-Gd-150



75

Incident Energy (MeV)

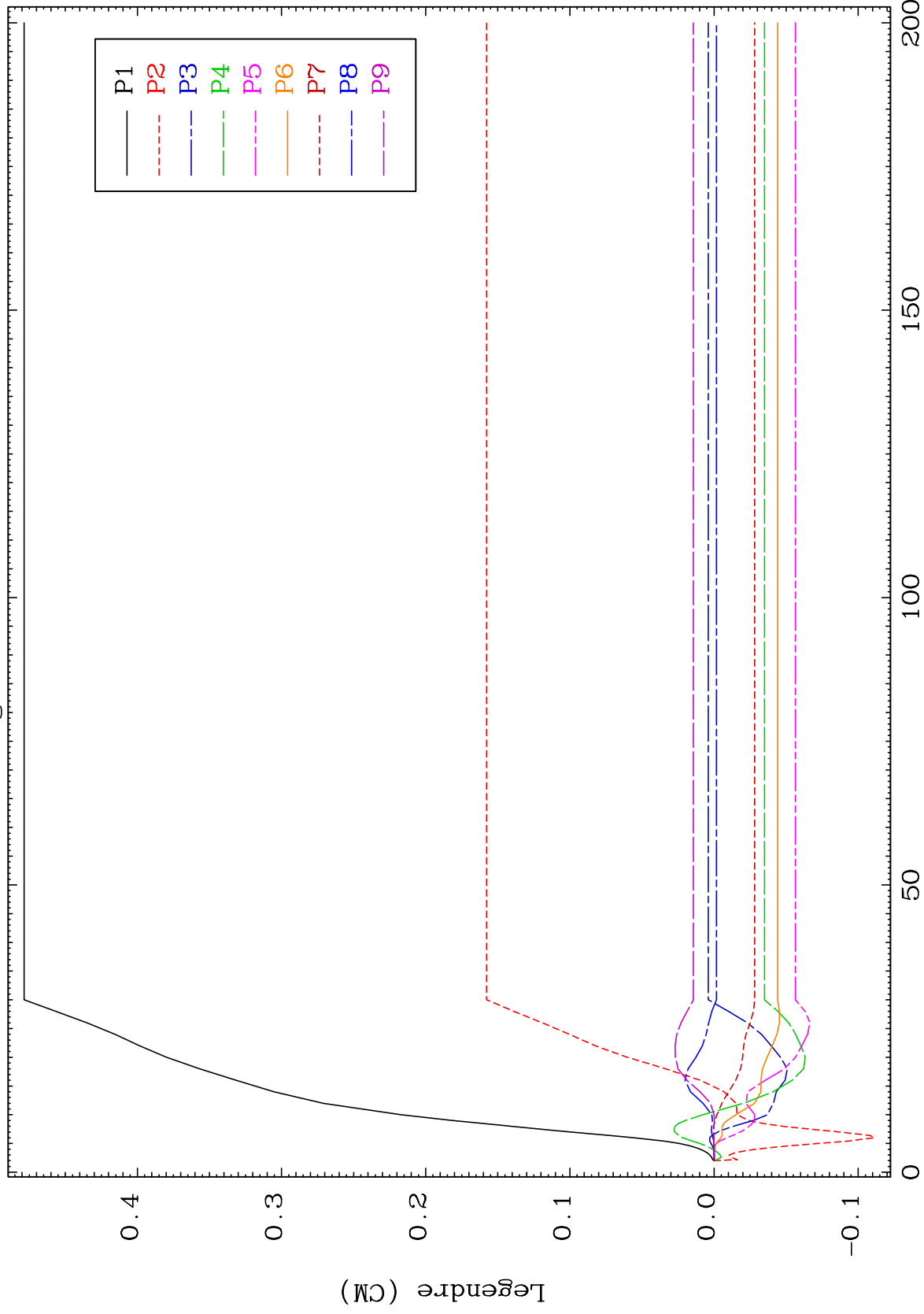
64-Gd-150



MAT 6419

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

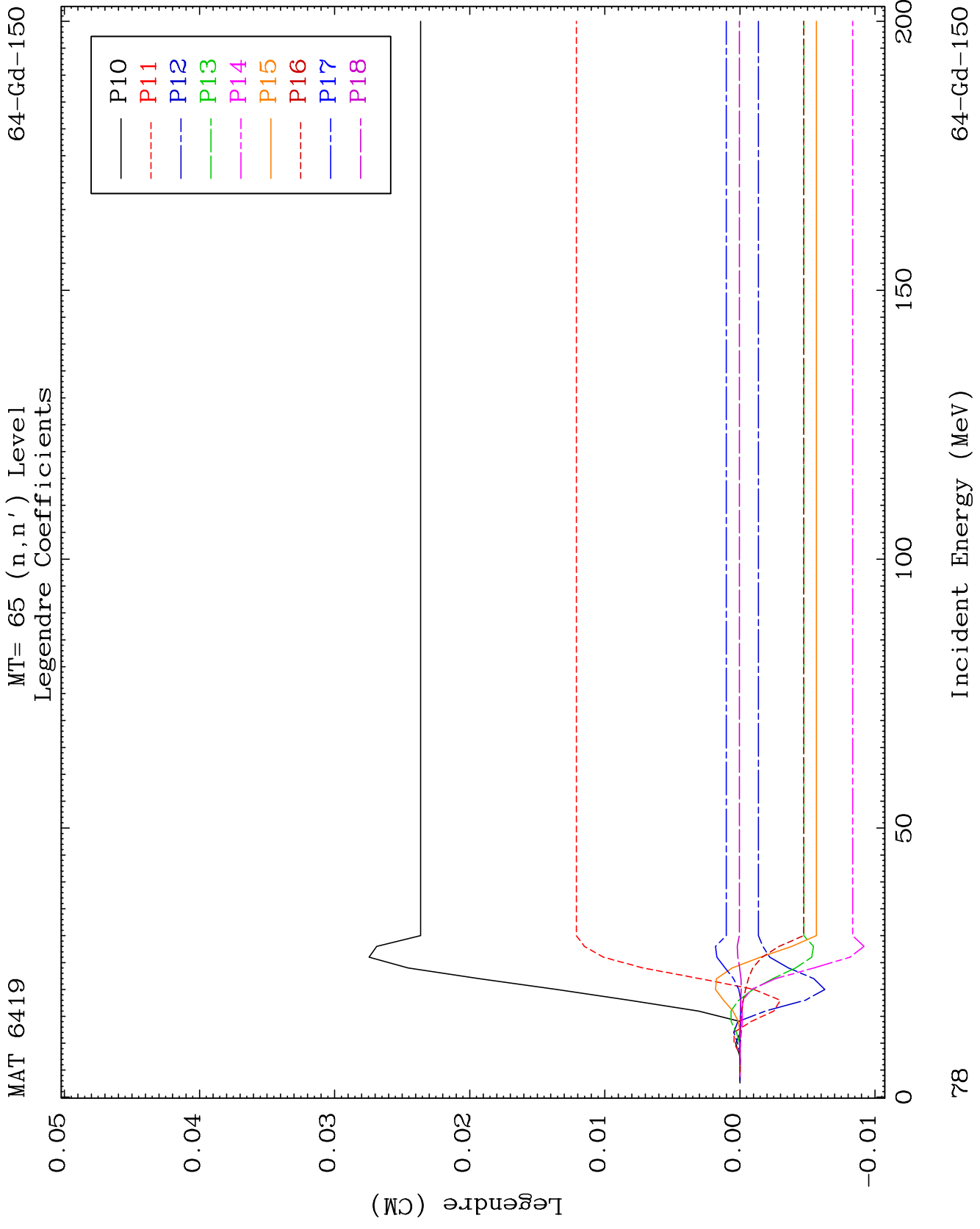
64-Gd-150



77

Incident Energy (MeV)

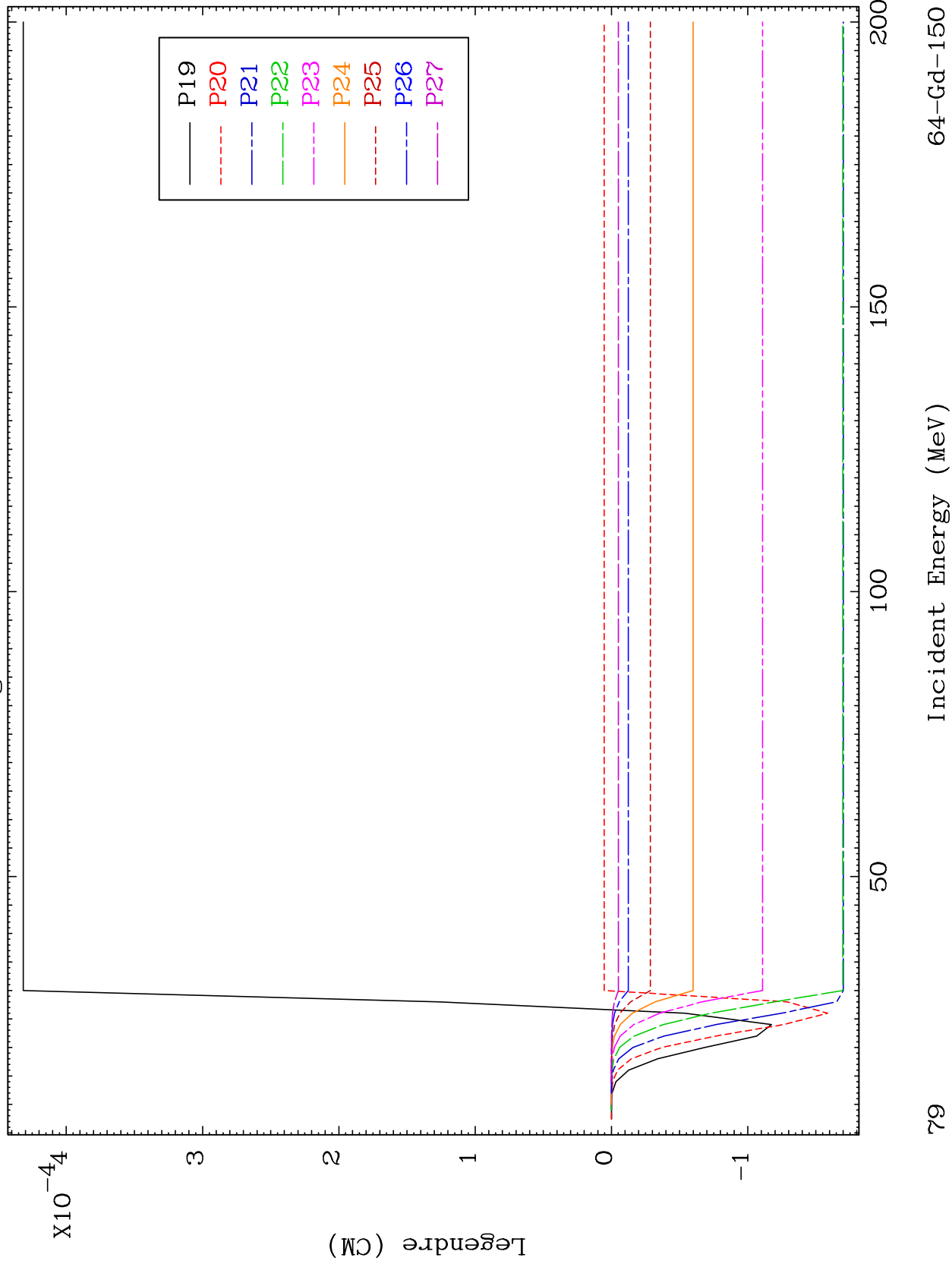
64-Gd-150

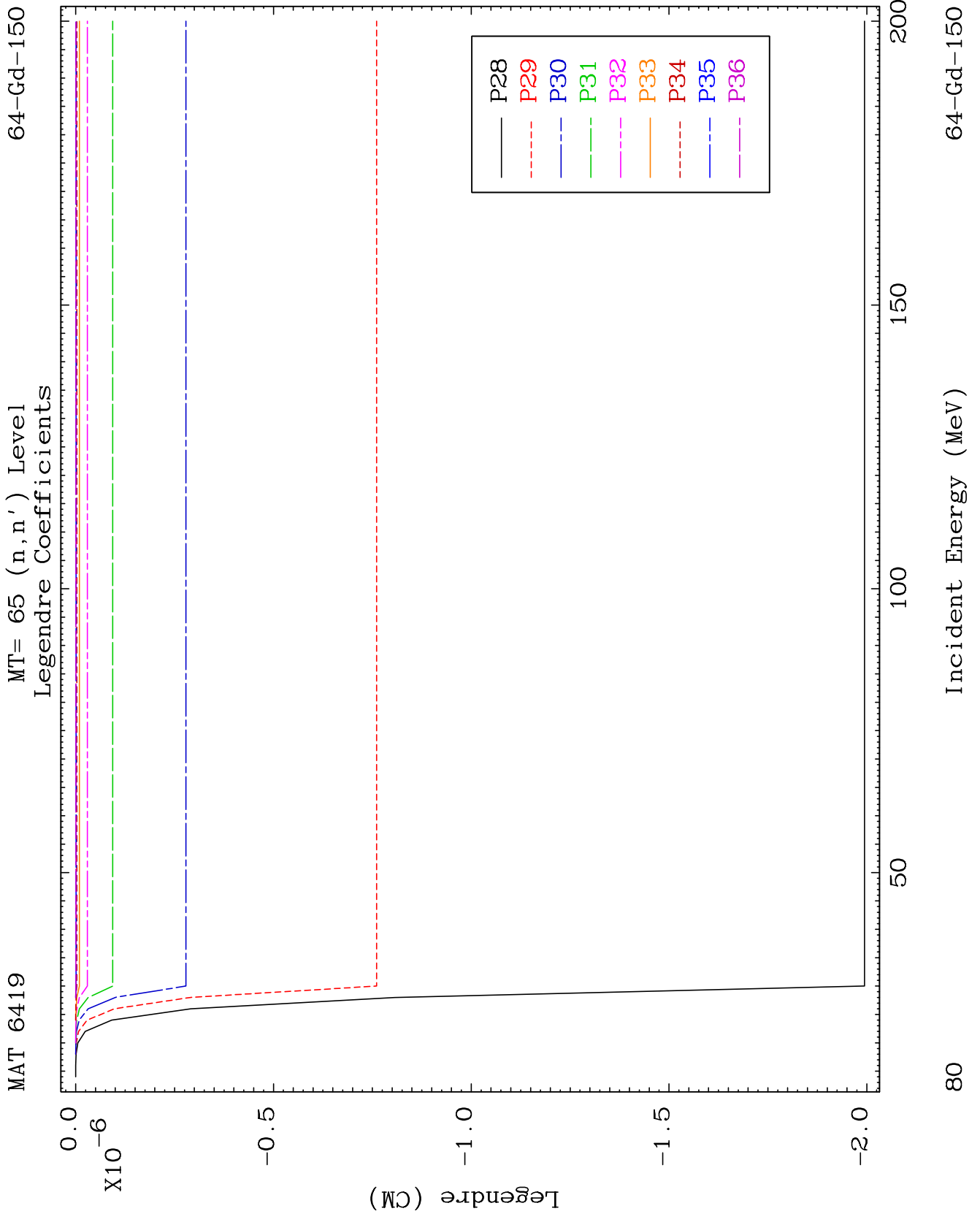


MAT 6419

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

64-Gd-150

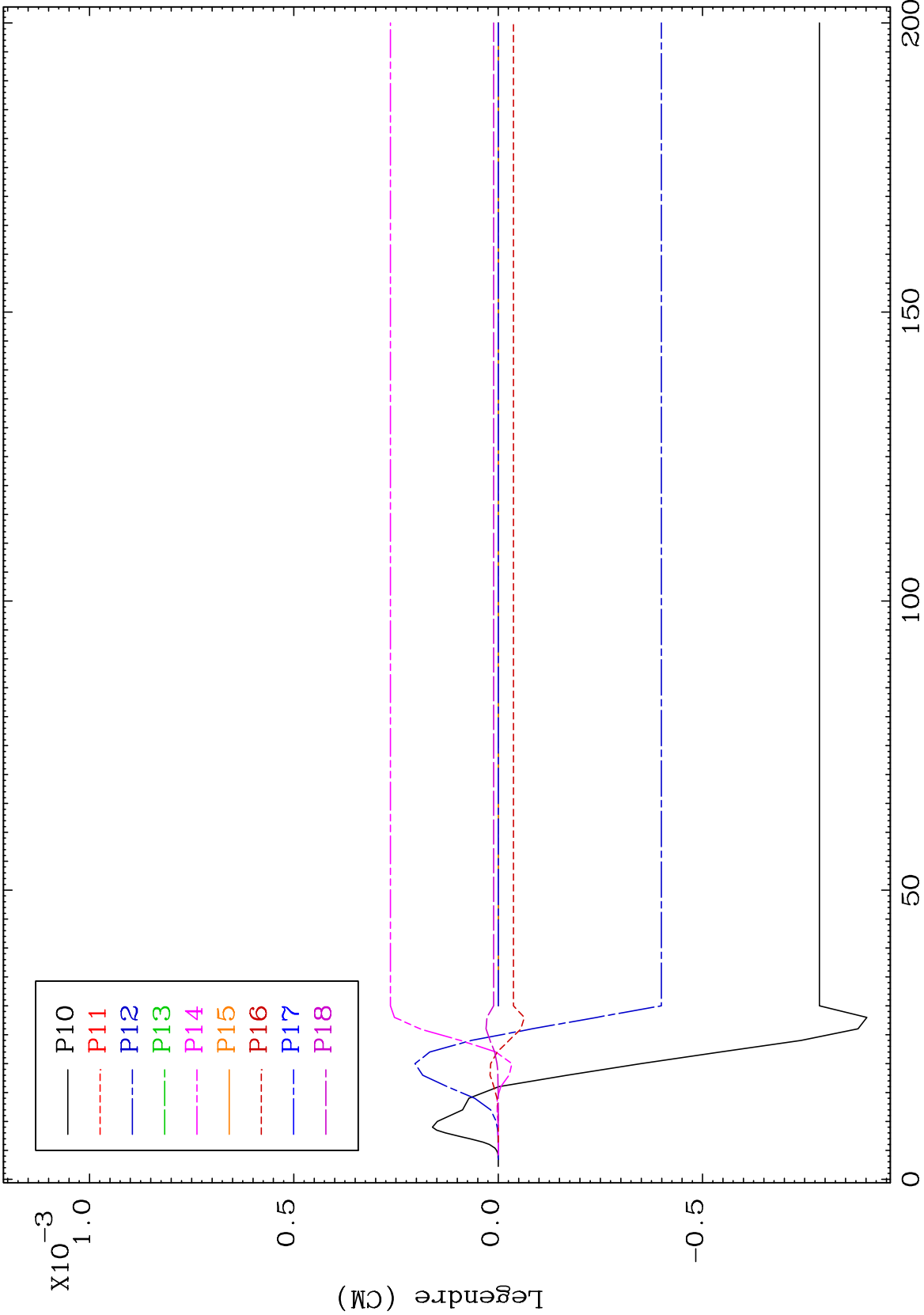
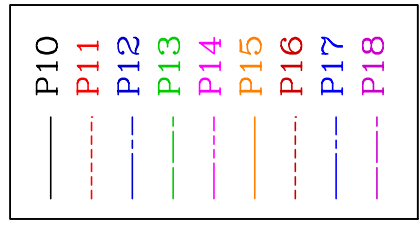




MAT 6419

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

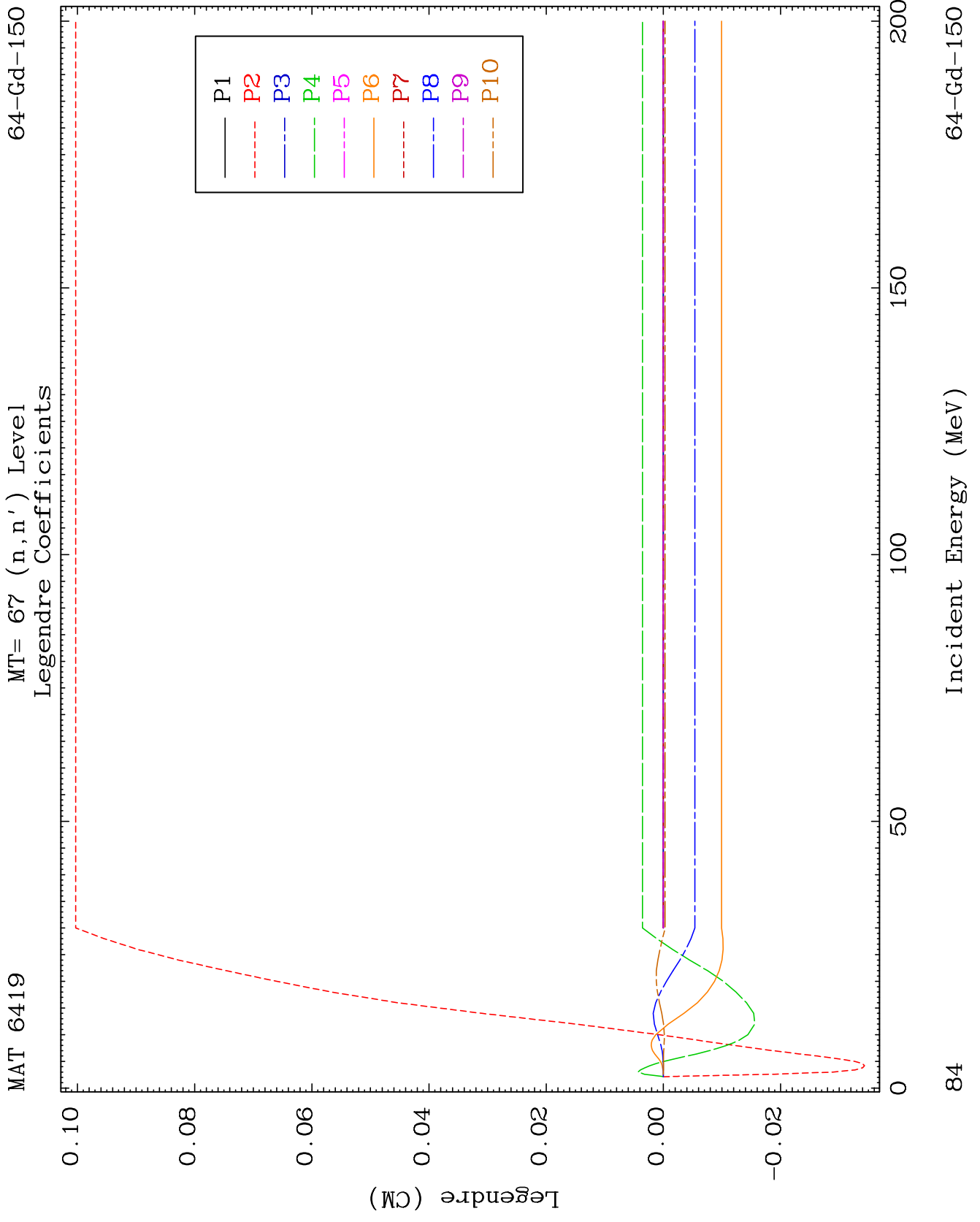
64-Gd-150

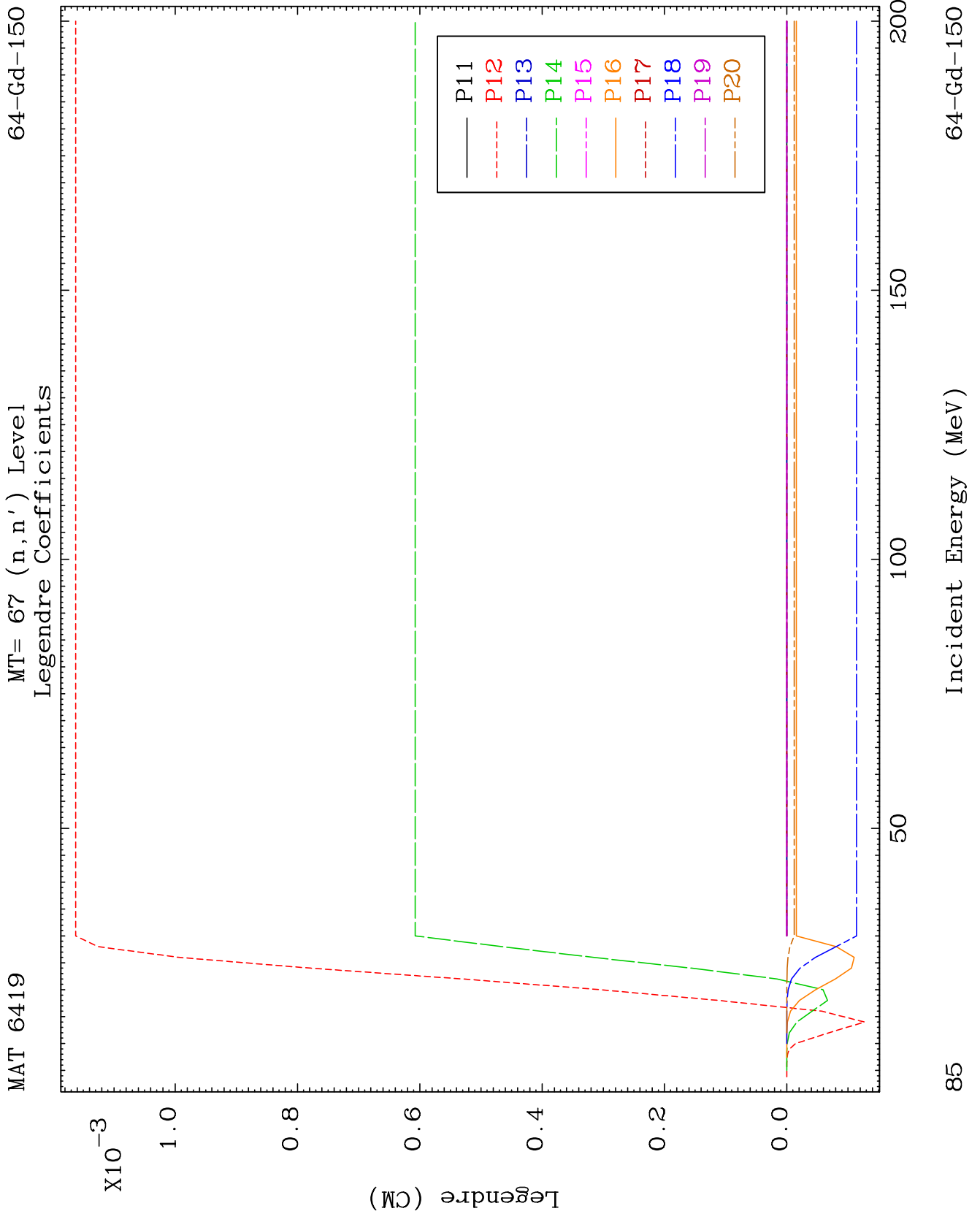


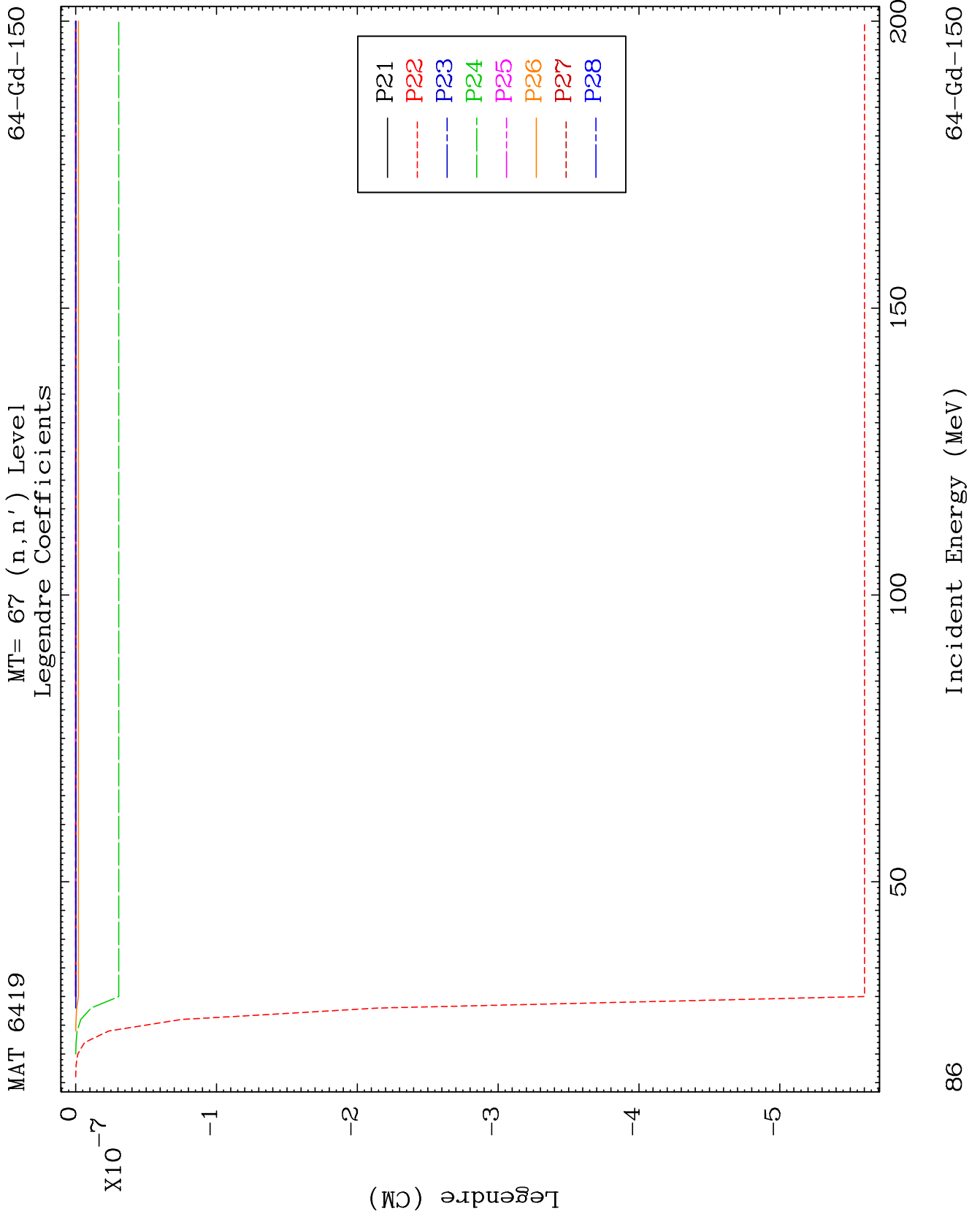
82

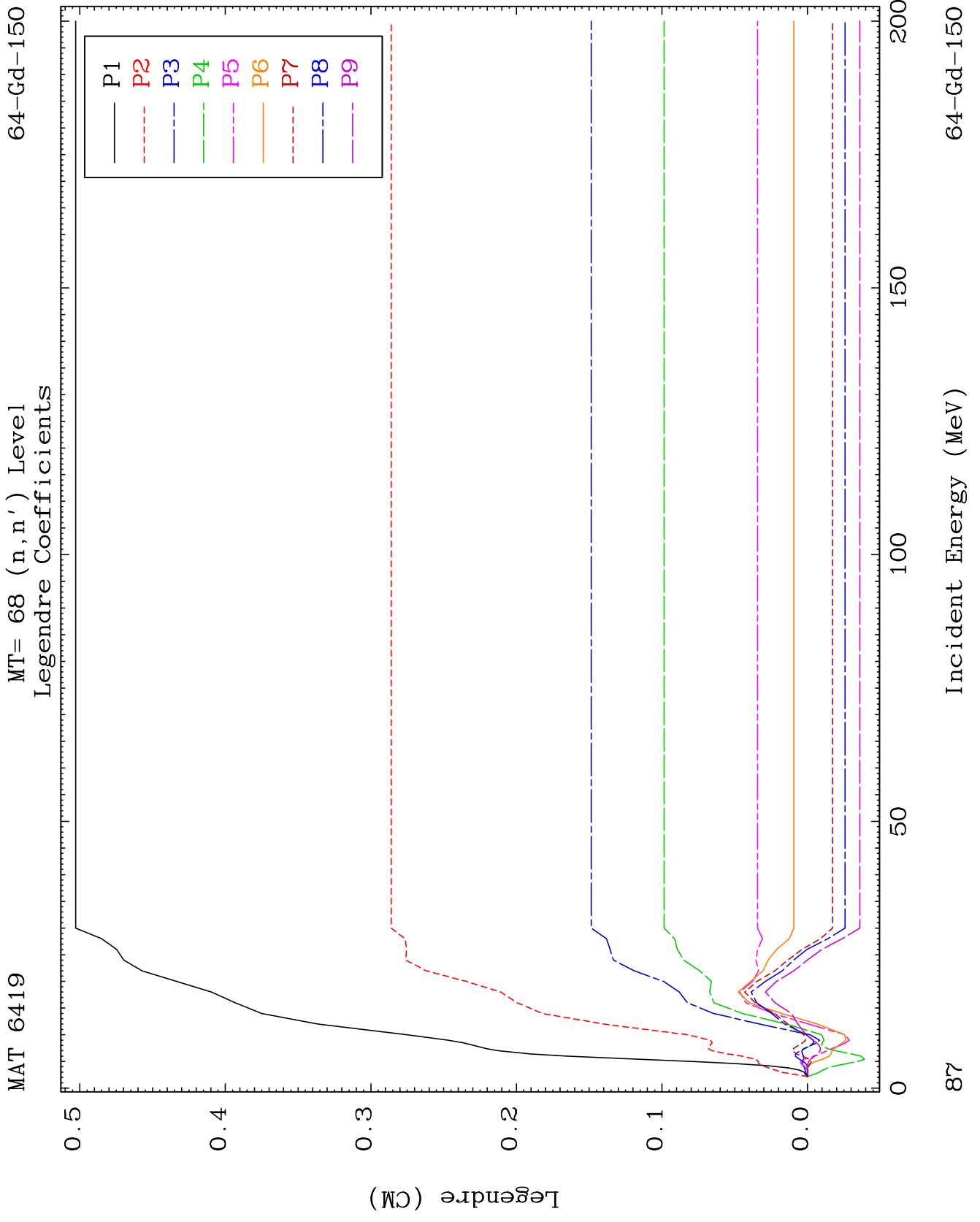
Incident Energy (MeV)

64-Gd-150





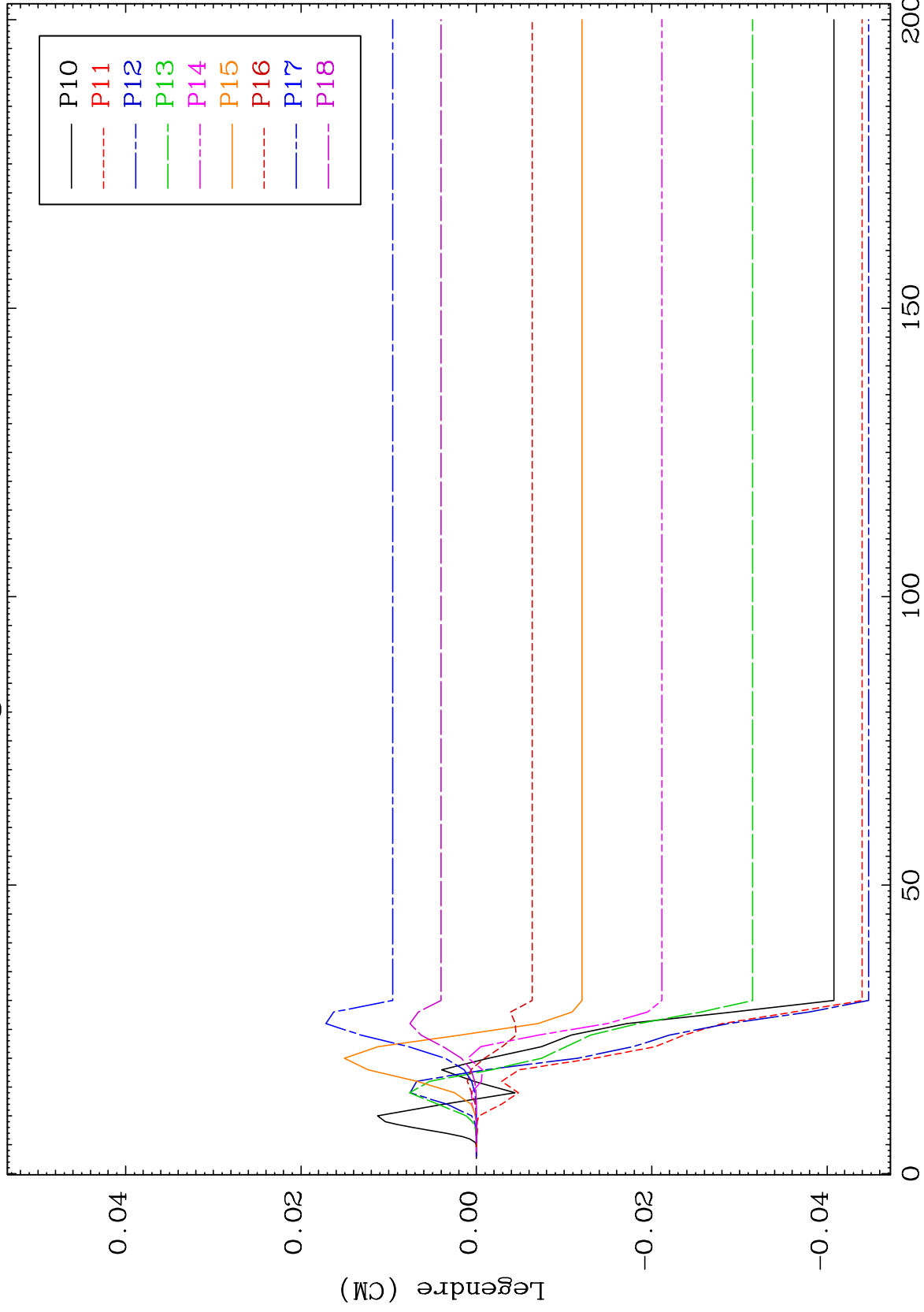




MAT 6419

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

64-Gd-150



88

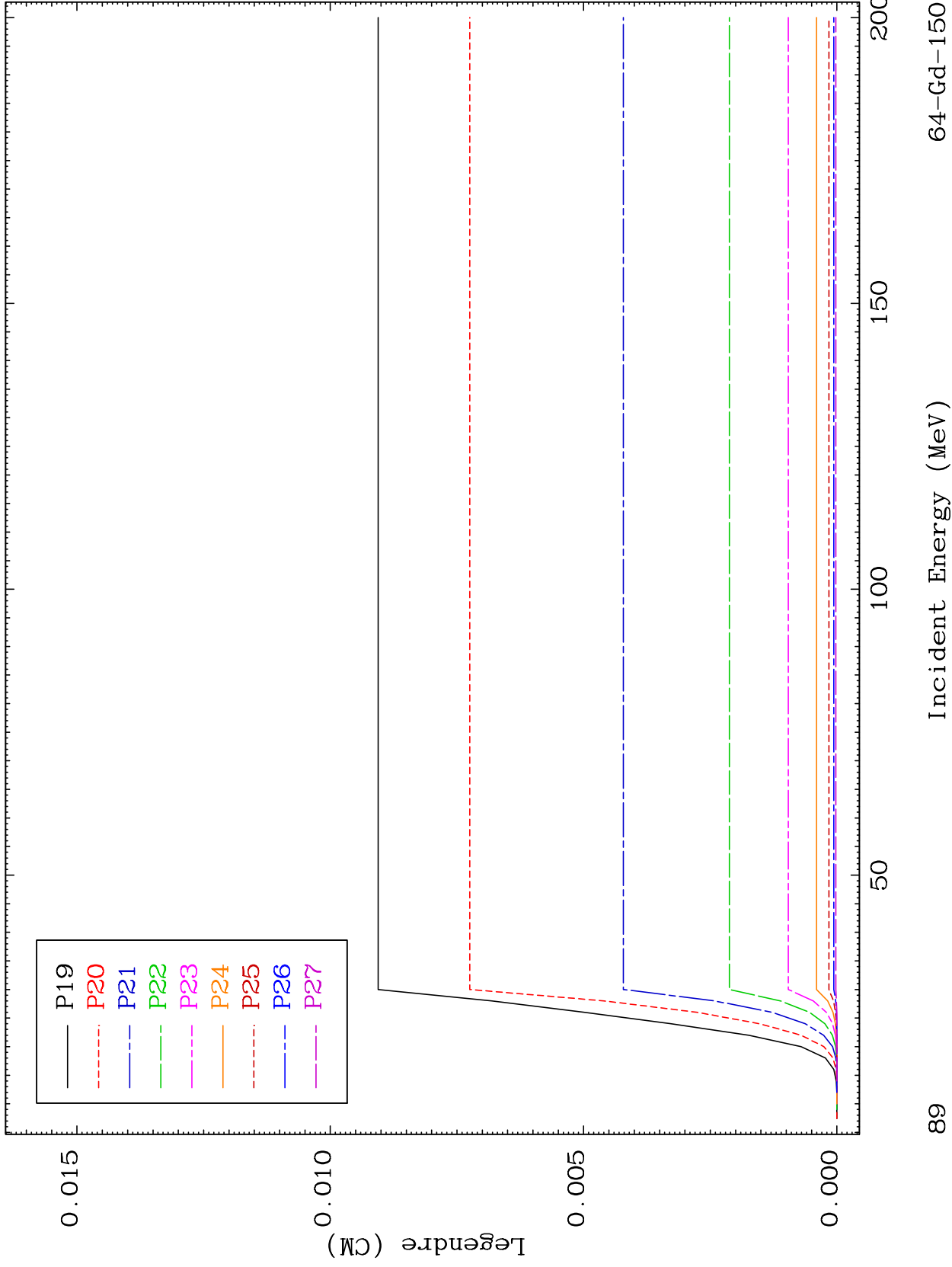
Incident Energy (MeV)

64-Gd-150

MAT 6419

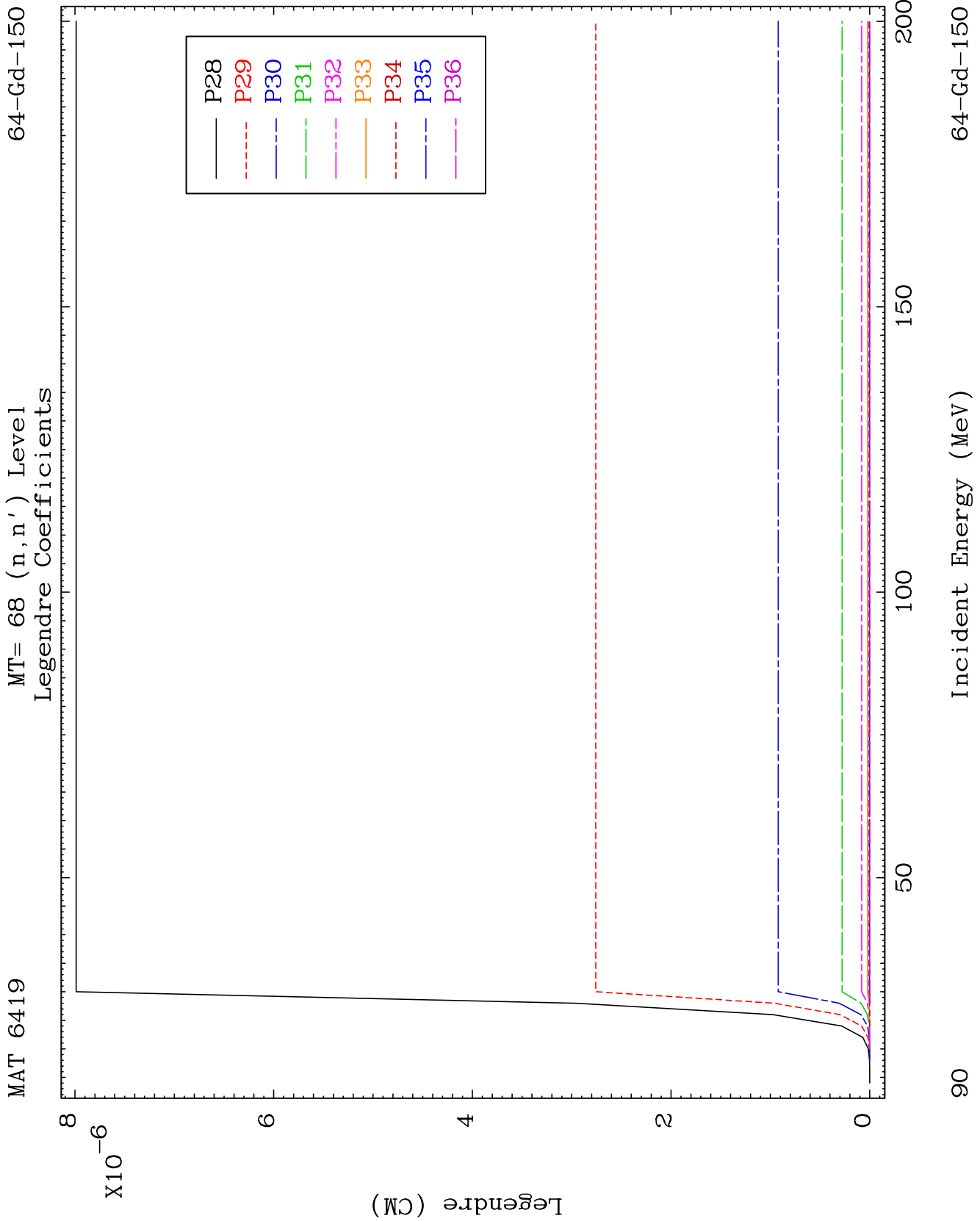
MT= 68 (n,n') Level
Legendre Coefficients

64-Gd-150



89

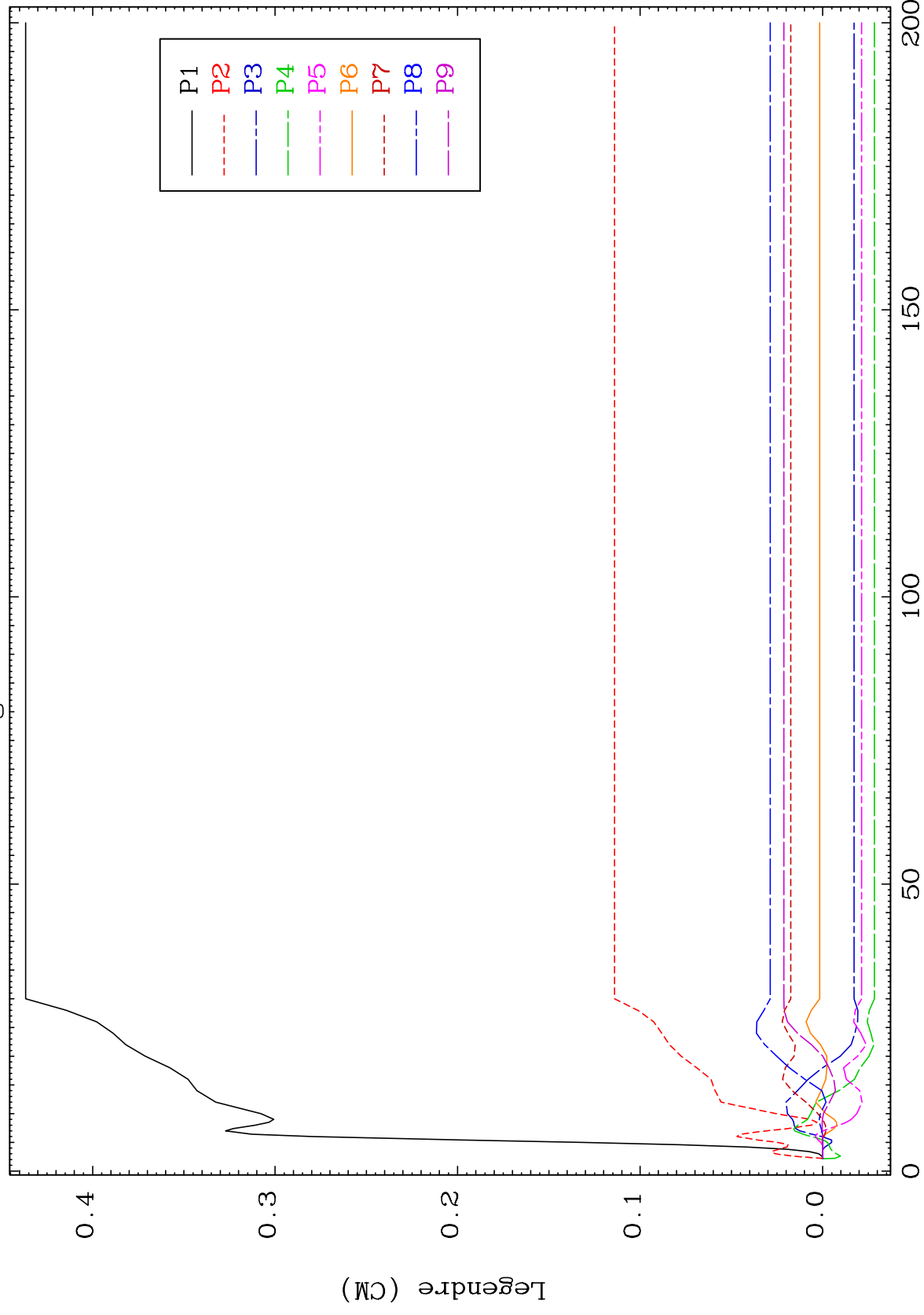
64-Gd-150



MAT 6419

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

64-Gd-150



91

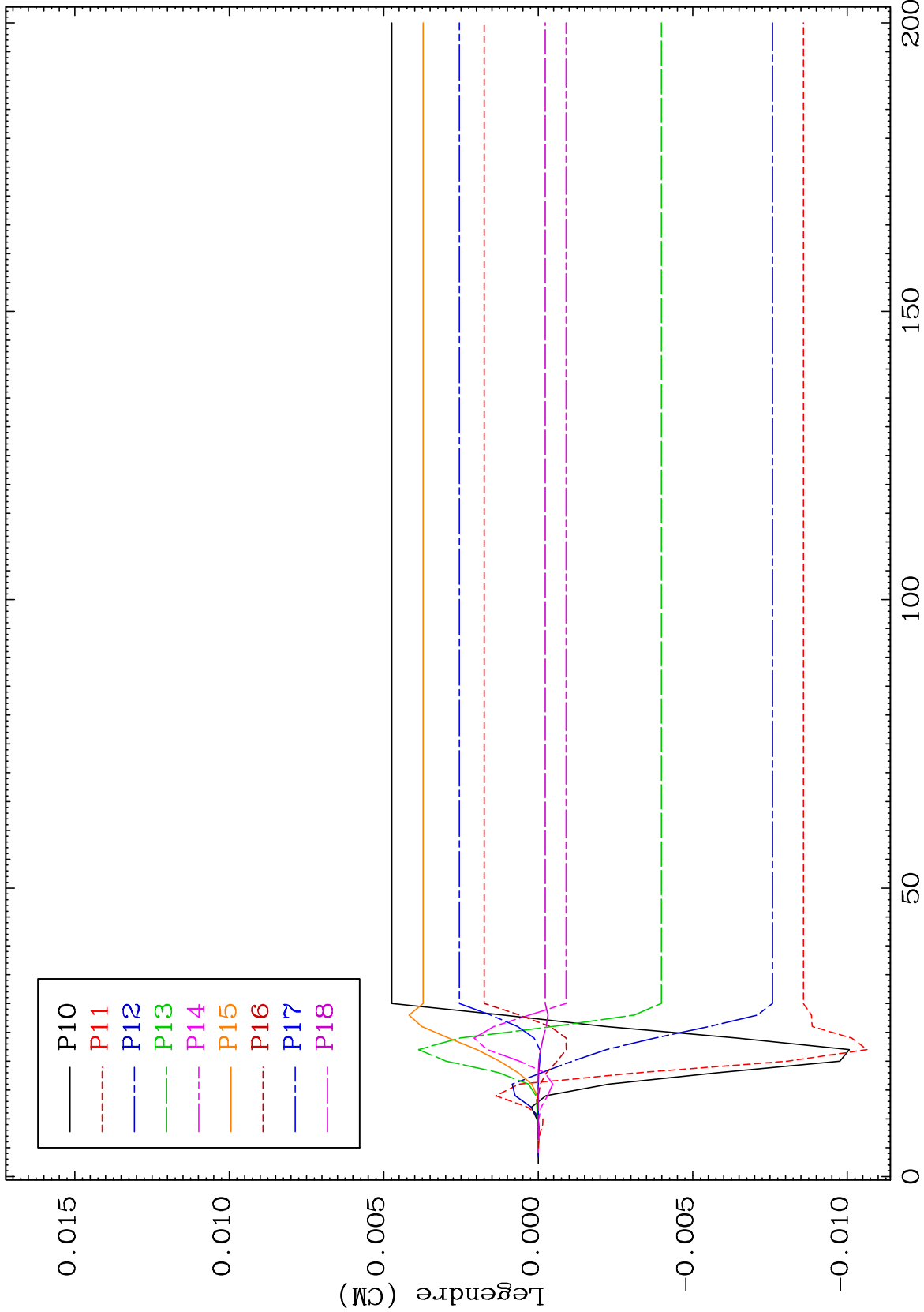
Incident Energy (MeV)

64-Gd-150

MAT 6419

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

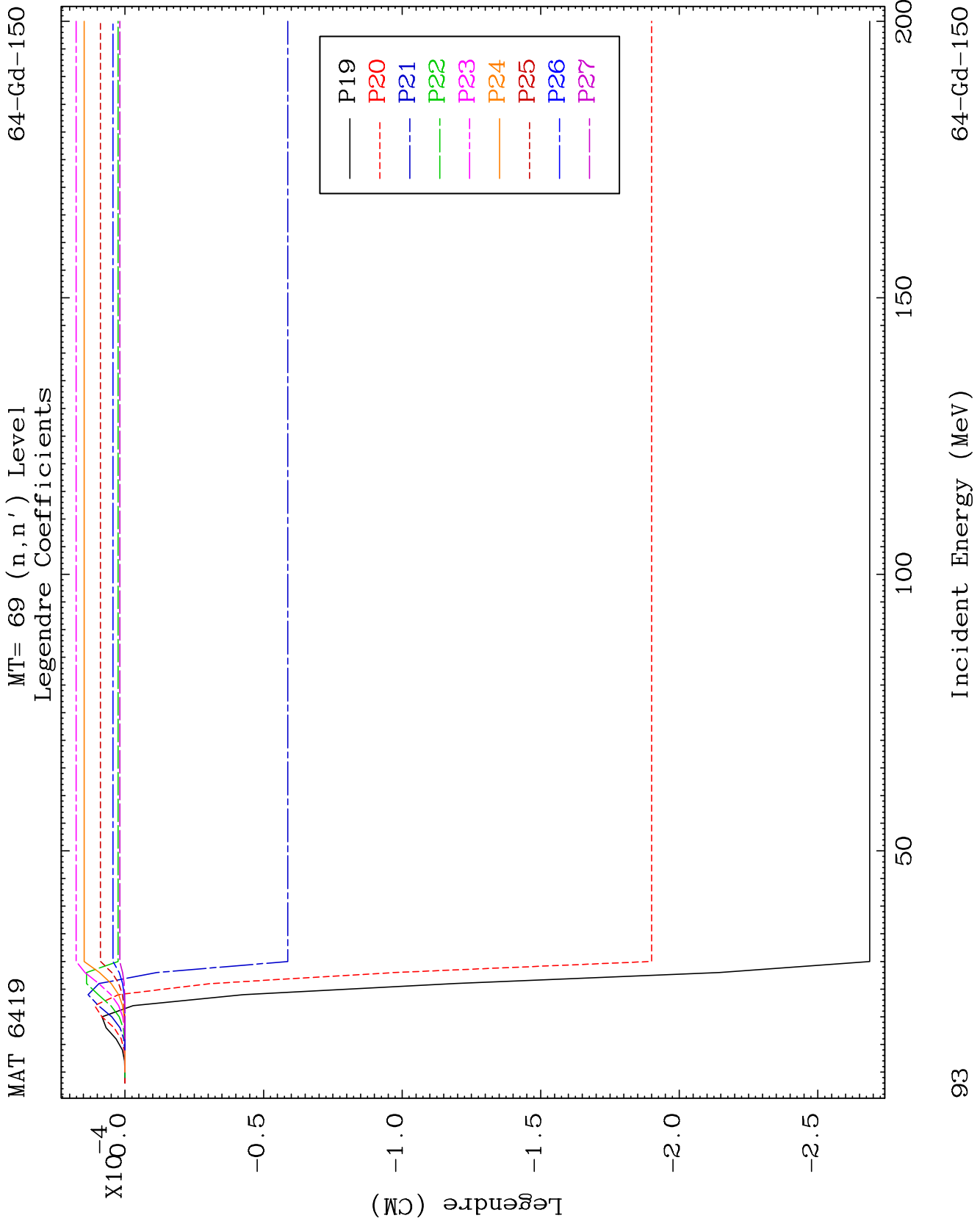
64-Gd-150

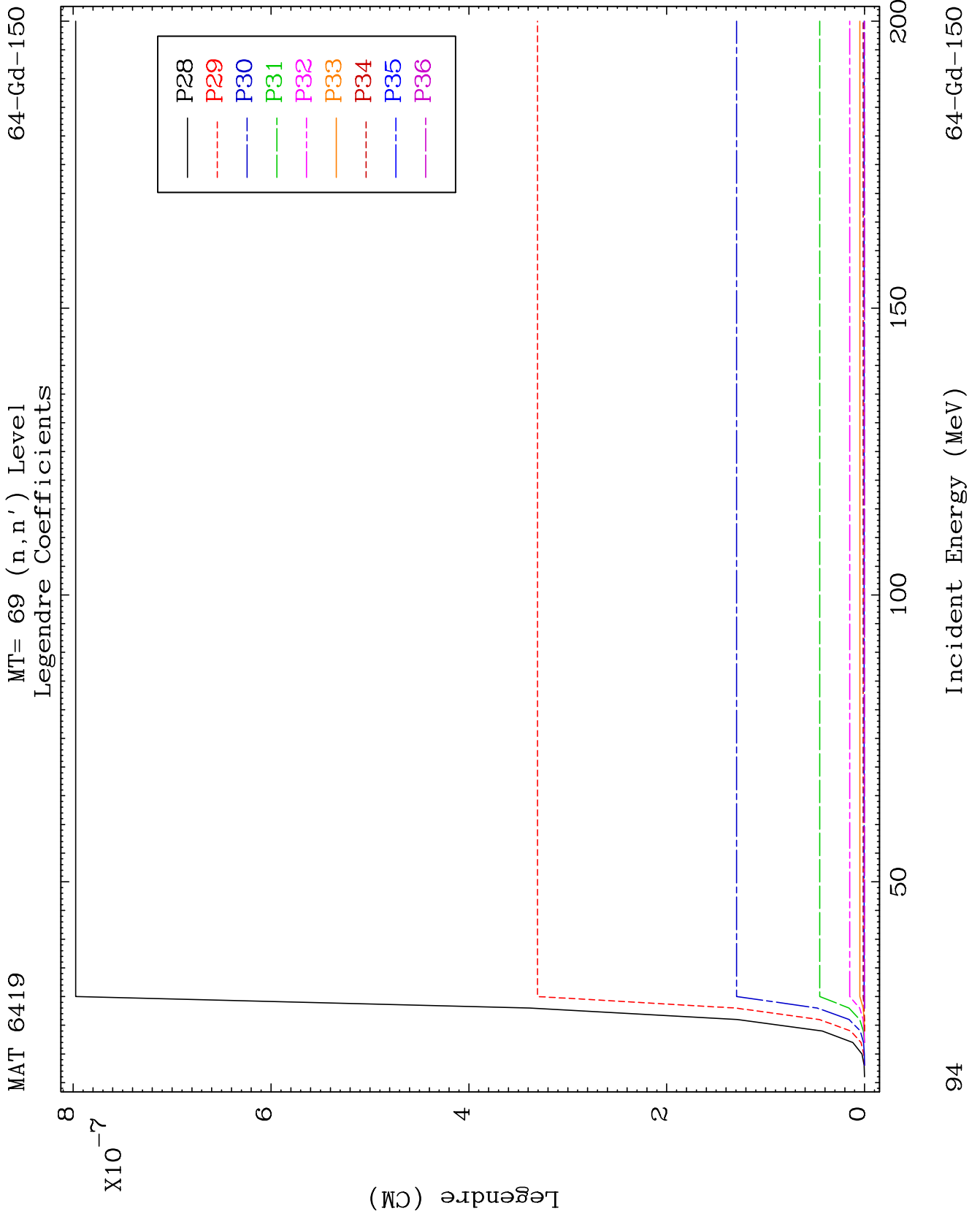


92

Incident Energy (MeV)

64-Gd-150

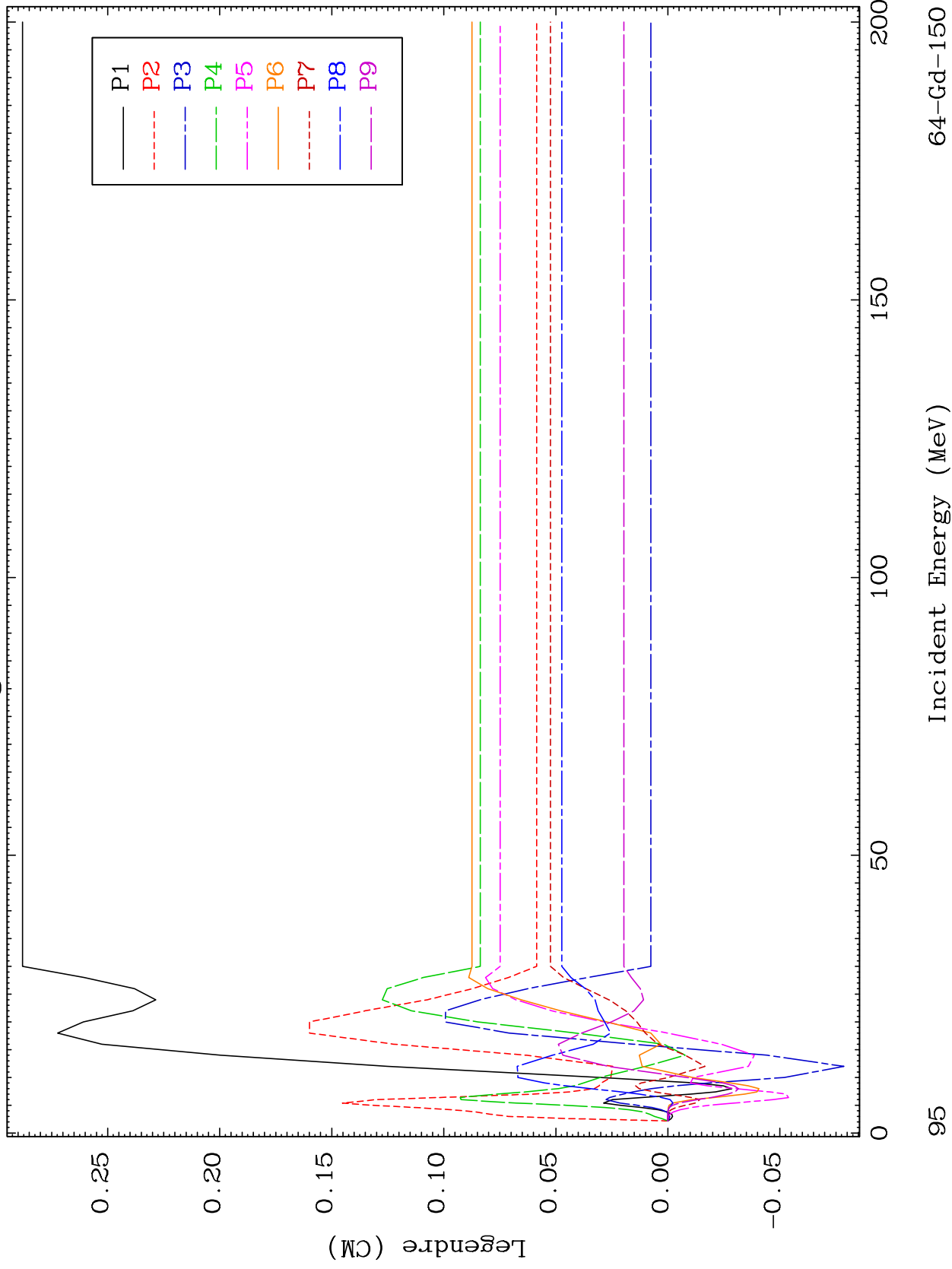




MAT 6419

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

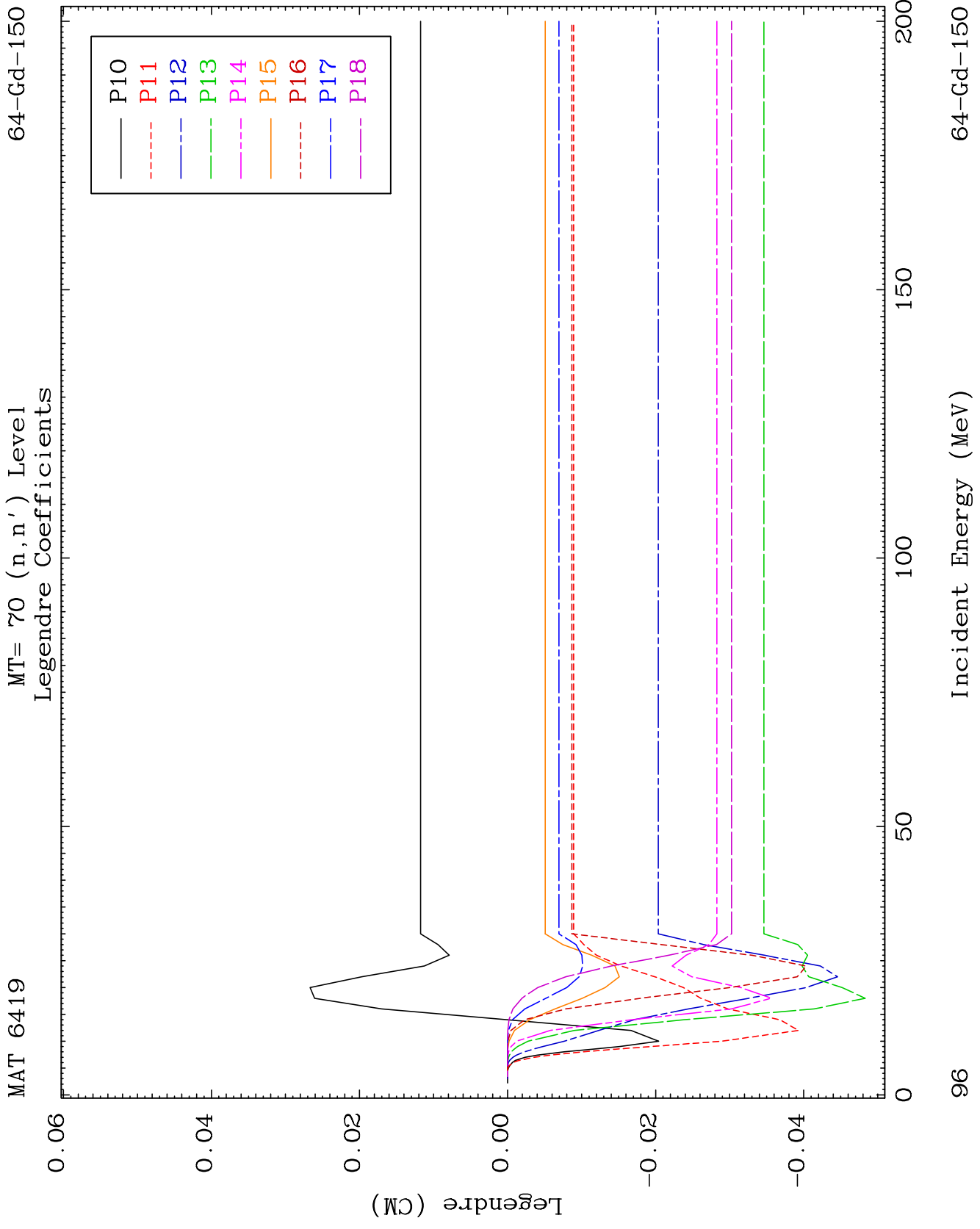
64-Gd-150



64-Gd-150

Incident Energy (MeV)

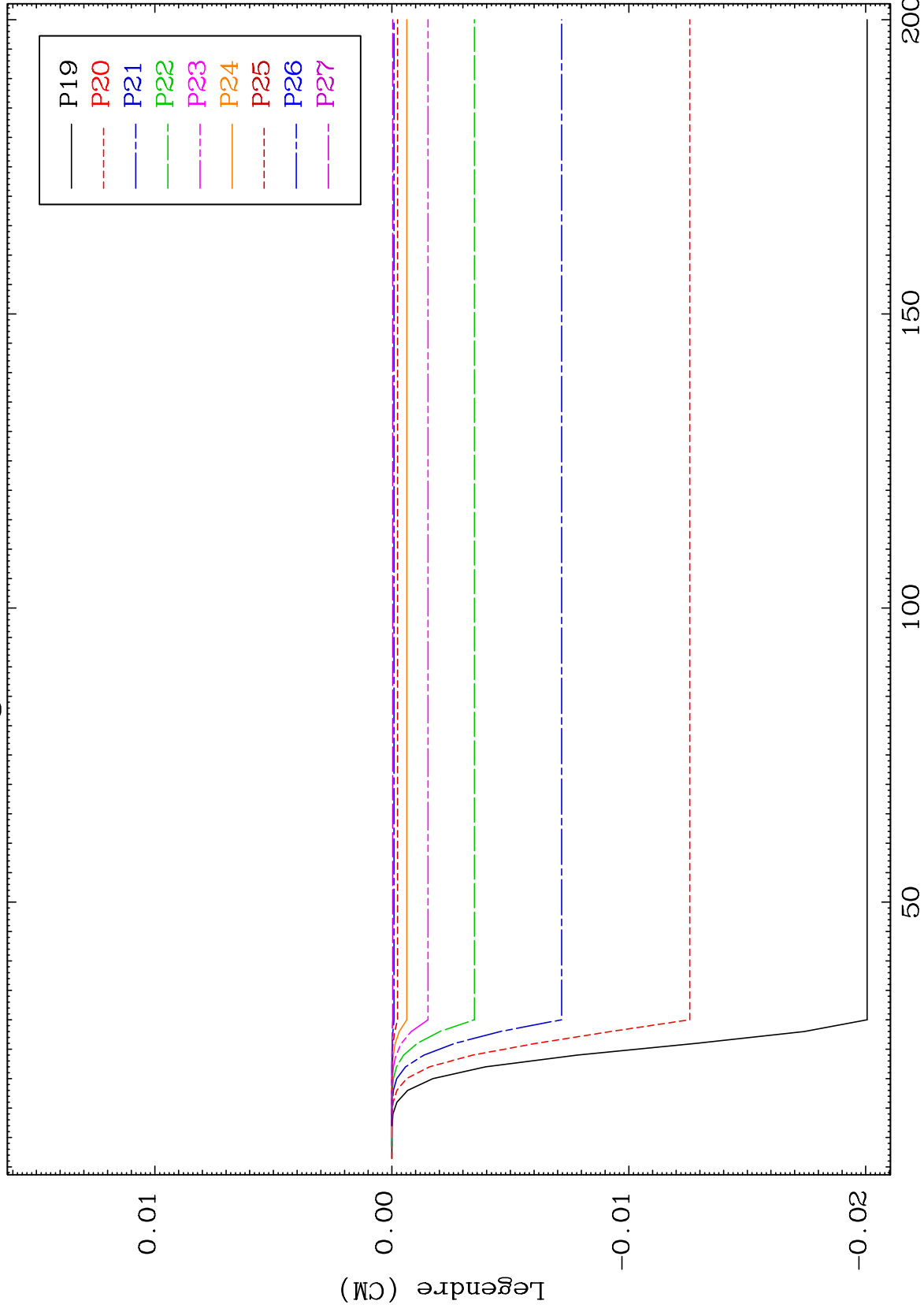
95



MAT 6419

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

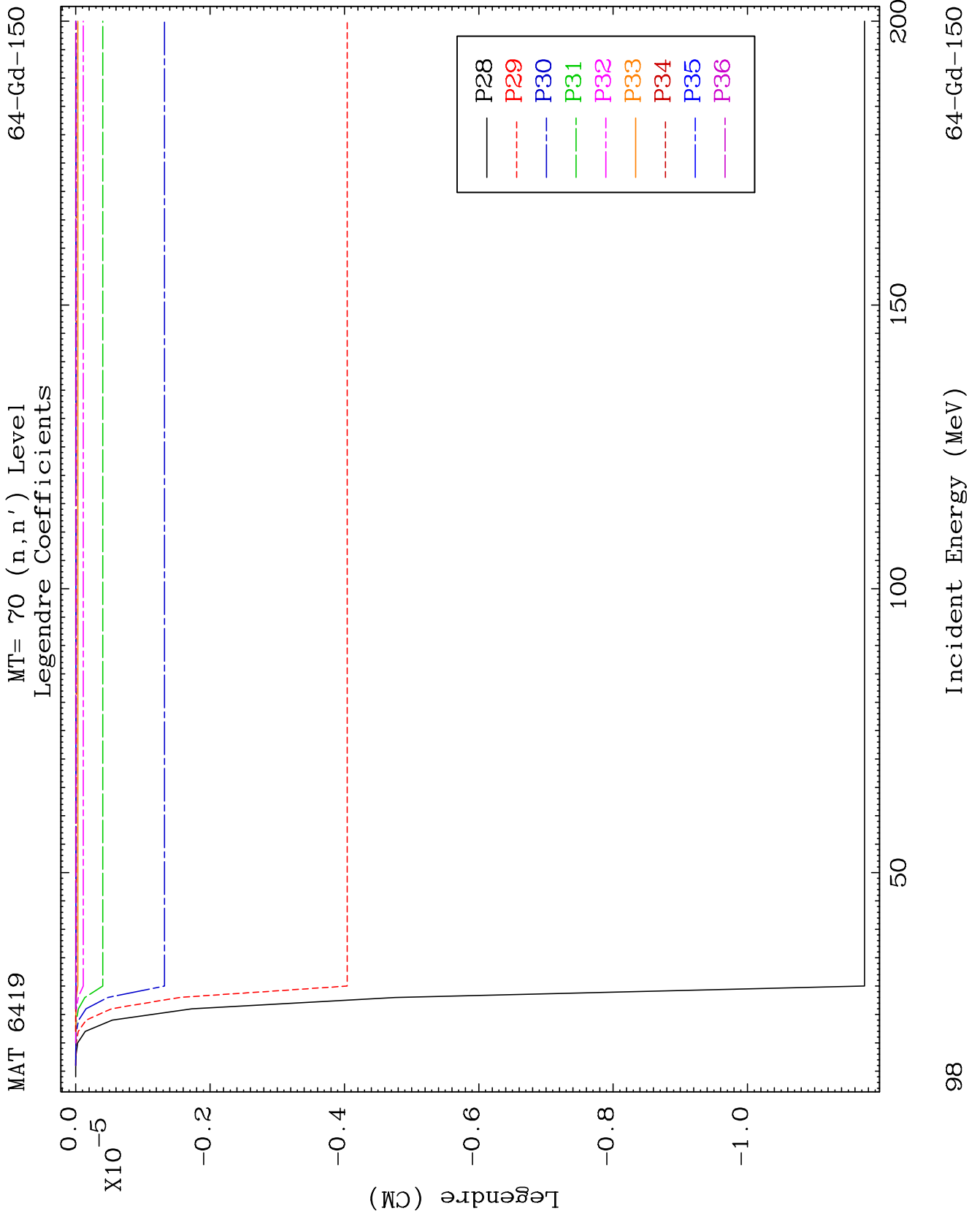
64-Gd-150

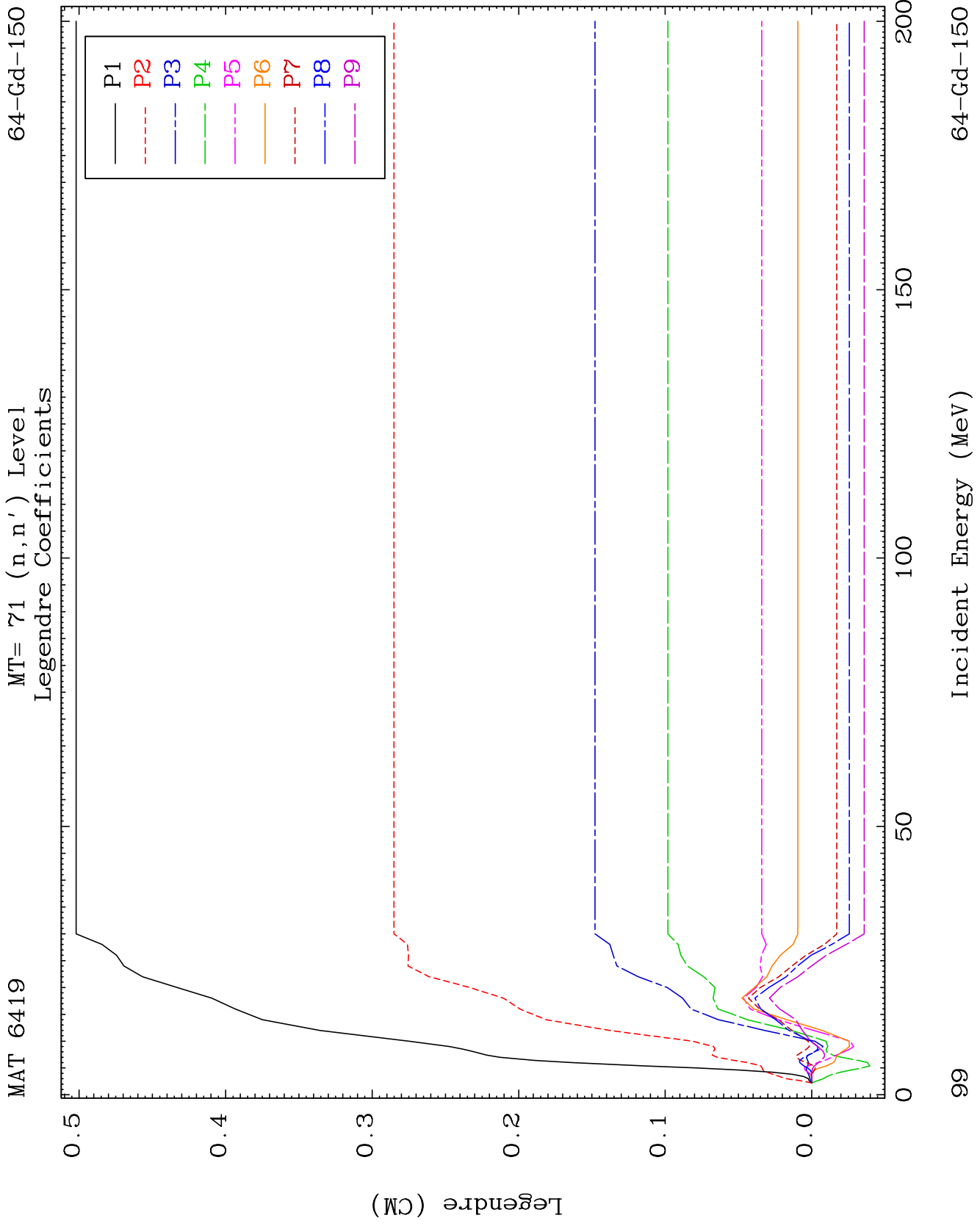


97

Incident Energy (MeV)

64-Gd-150

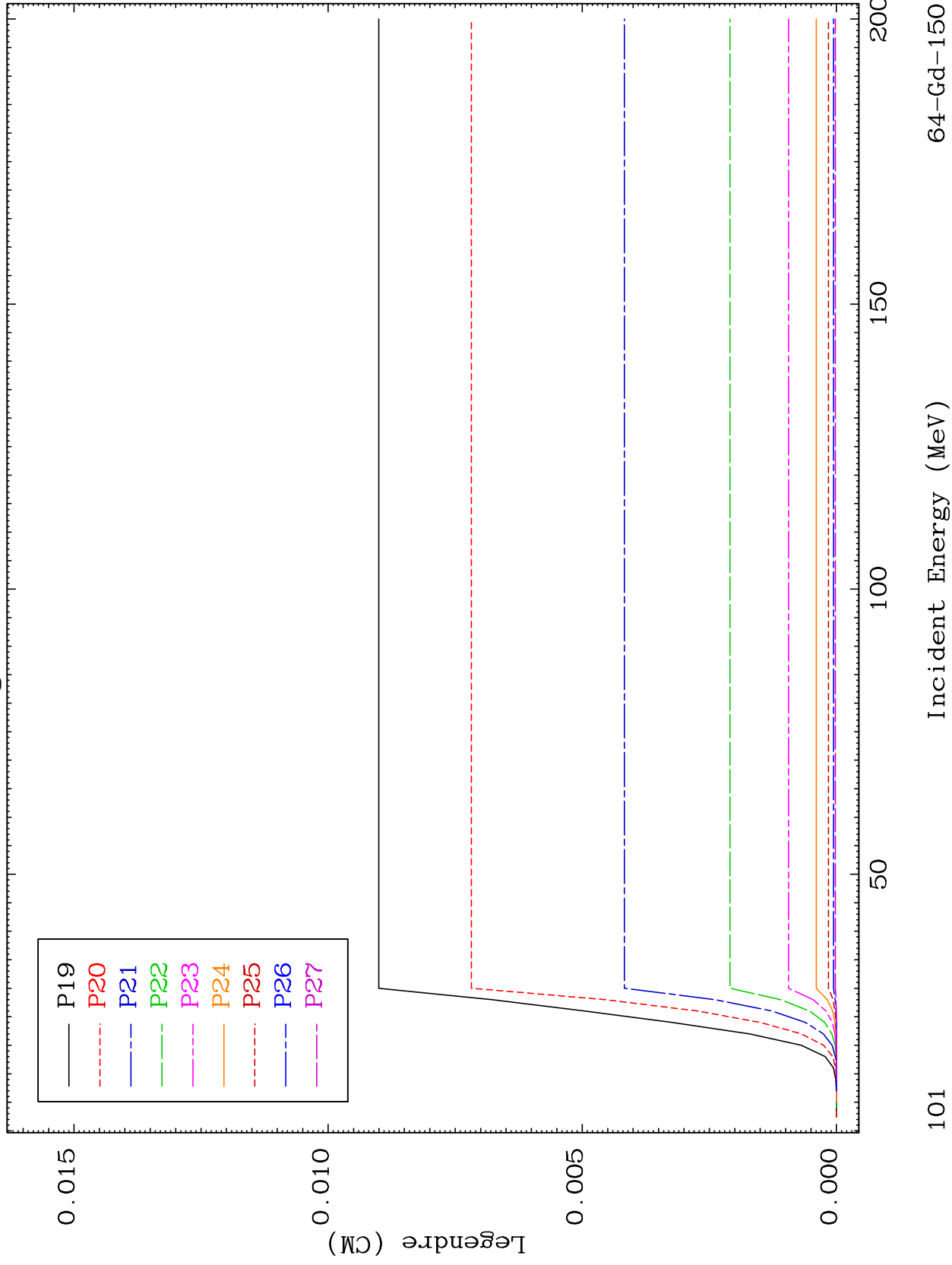




MAT 6419

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

64-Gd-150



101

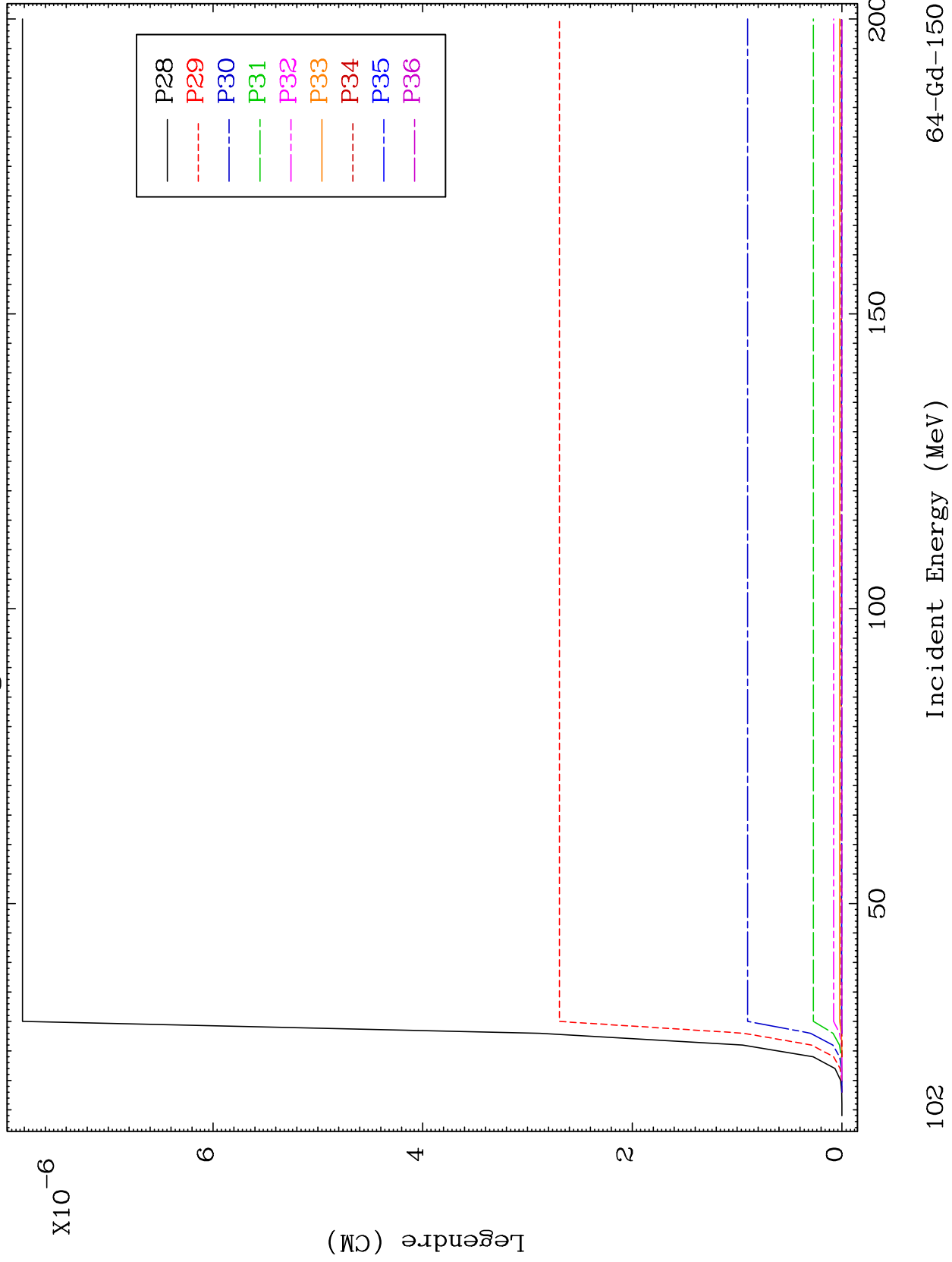
Incident Energy (MeV)

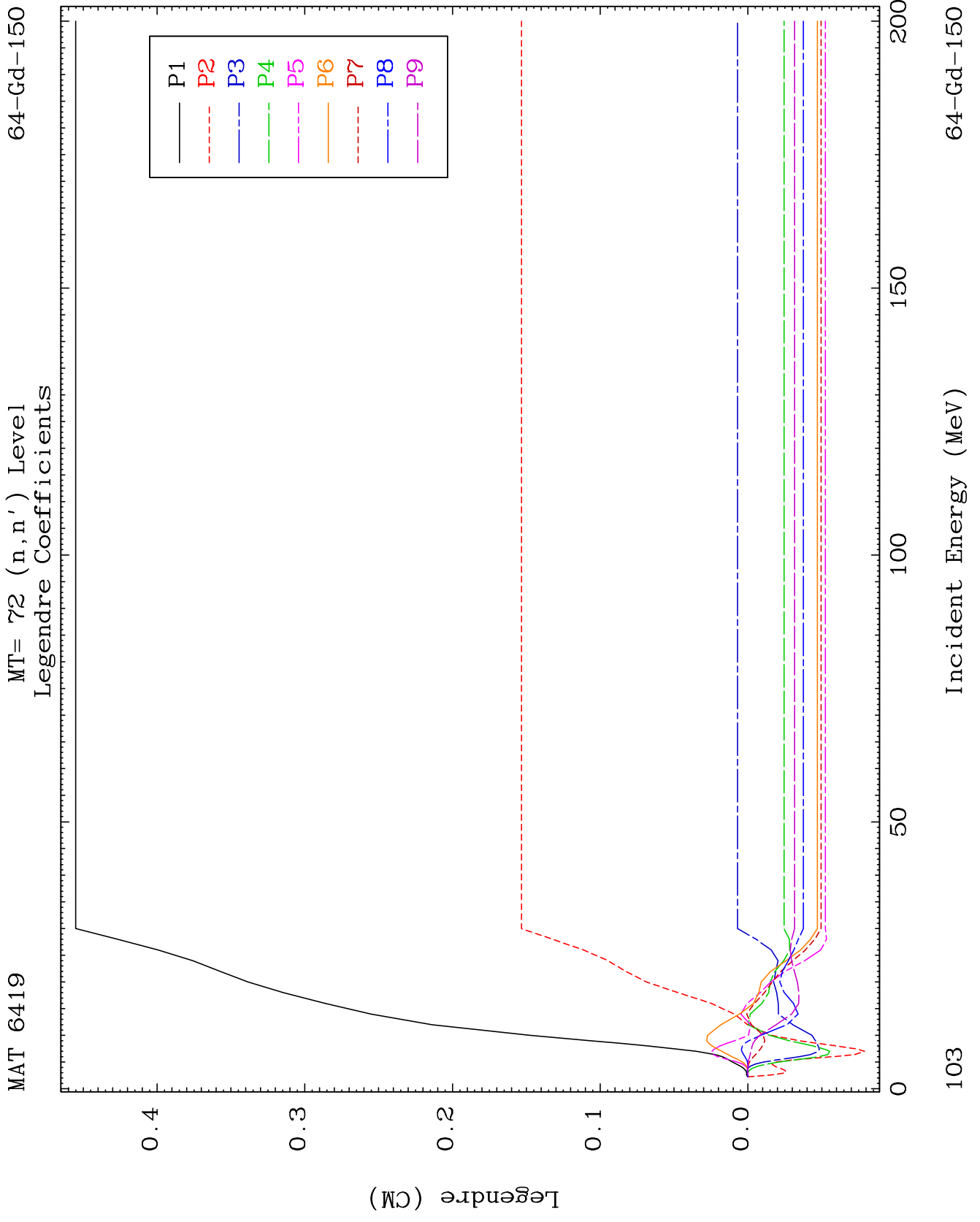
64-Gd-150

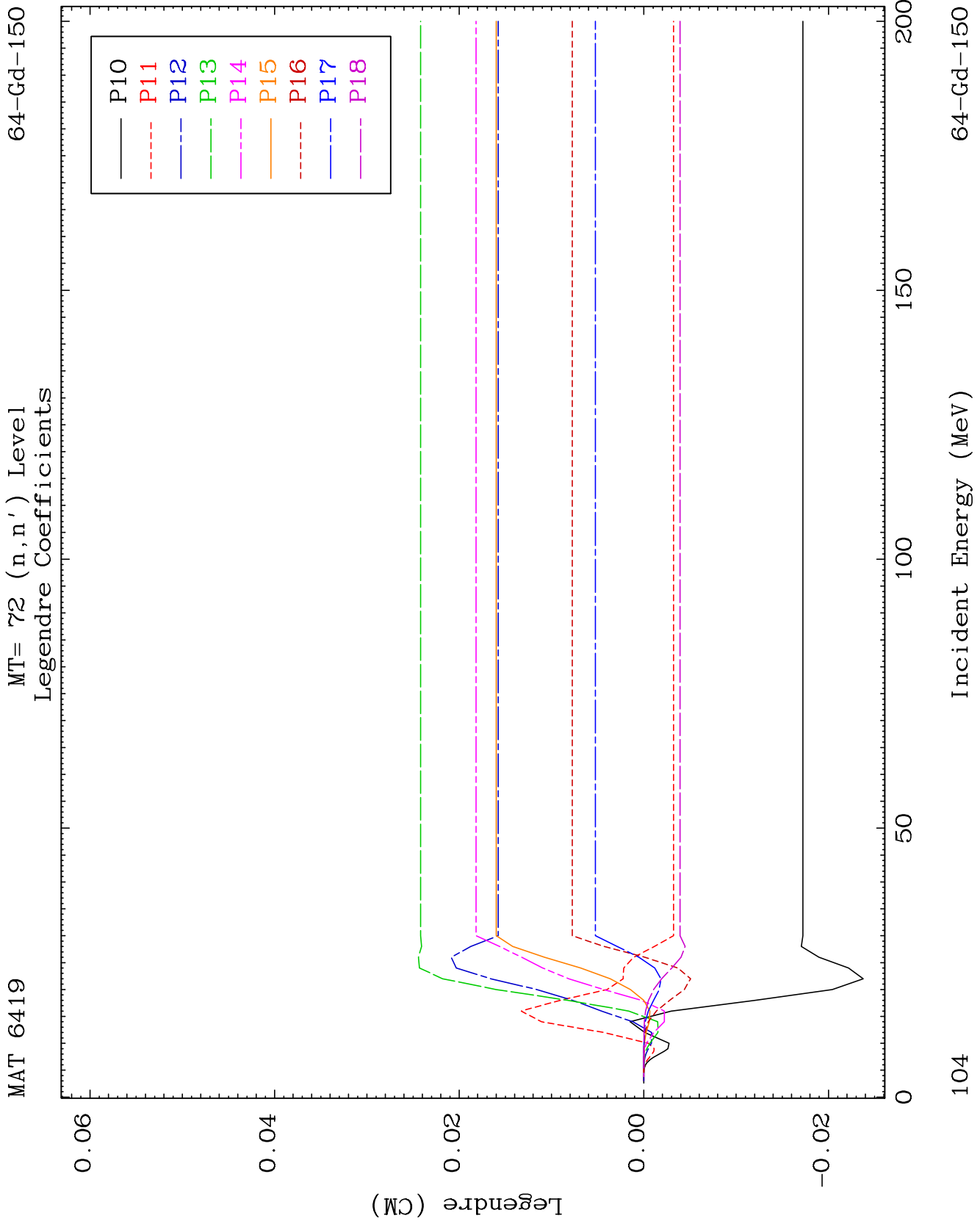
MAT 6419

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

64-Gd-150



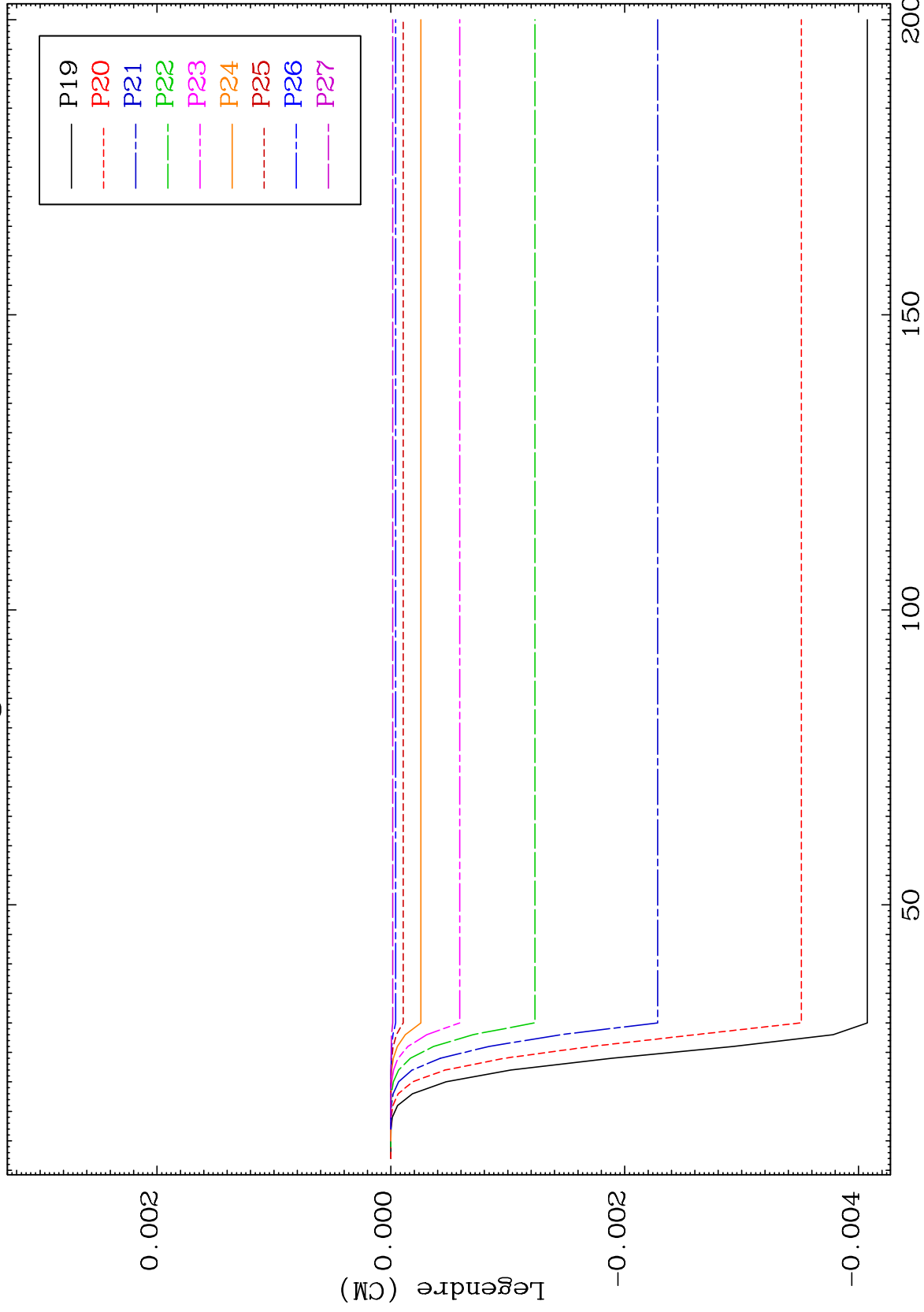




MAT 6419

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

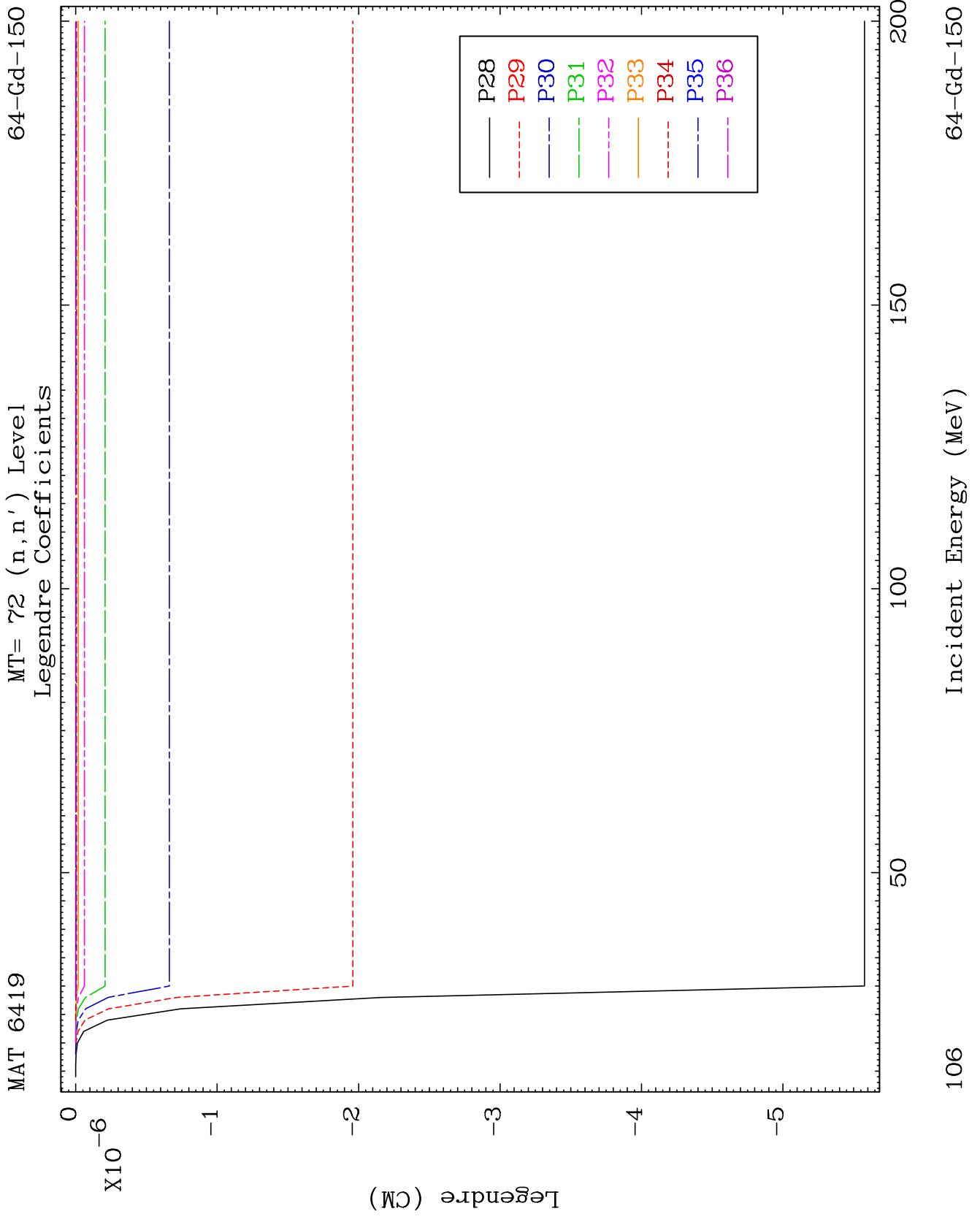
64-Gd-150

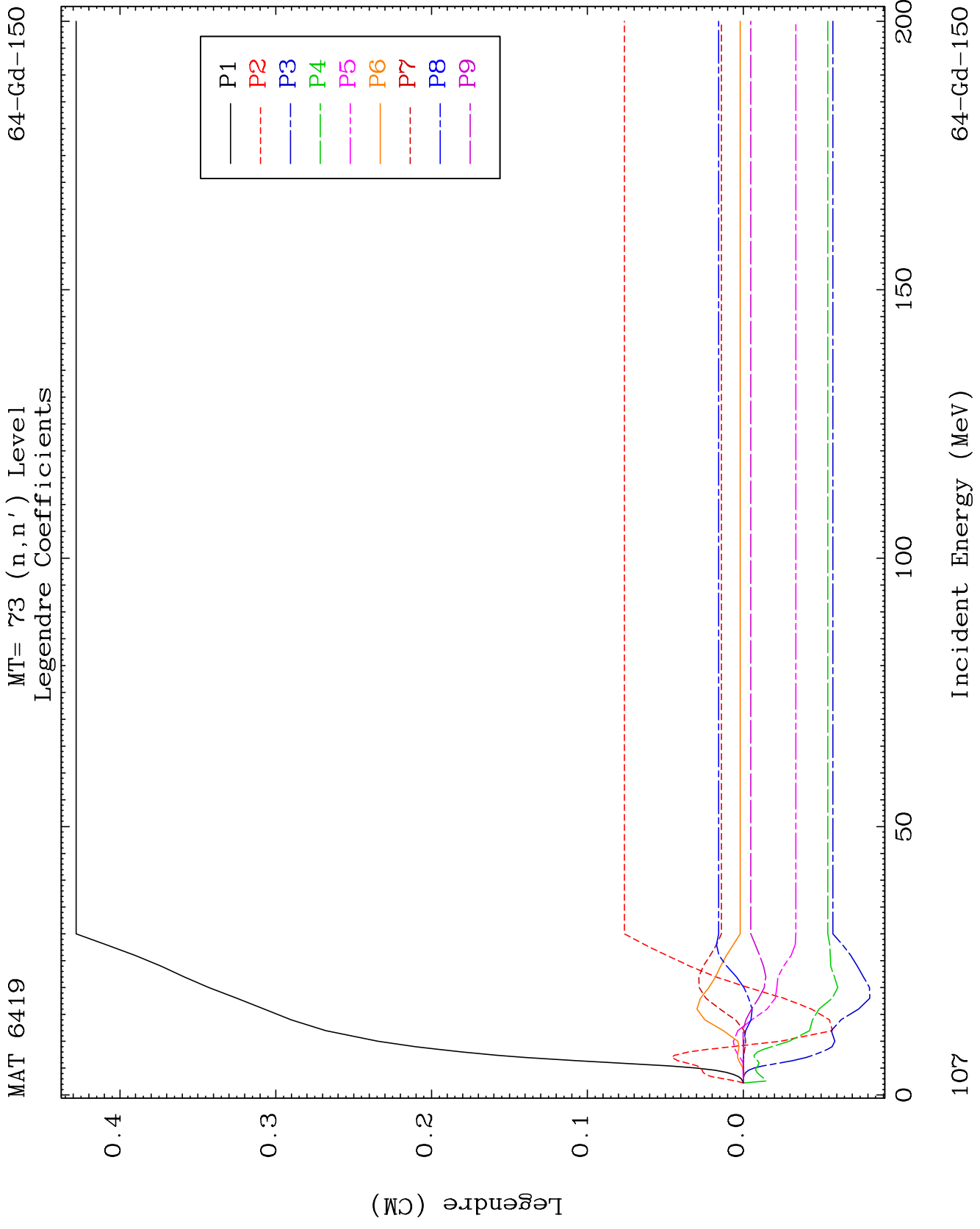


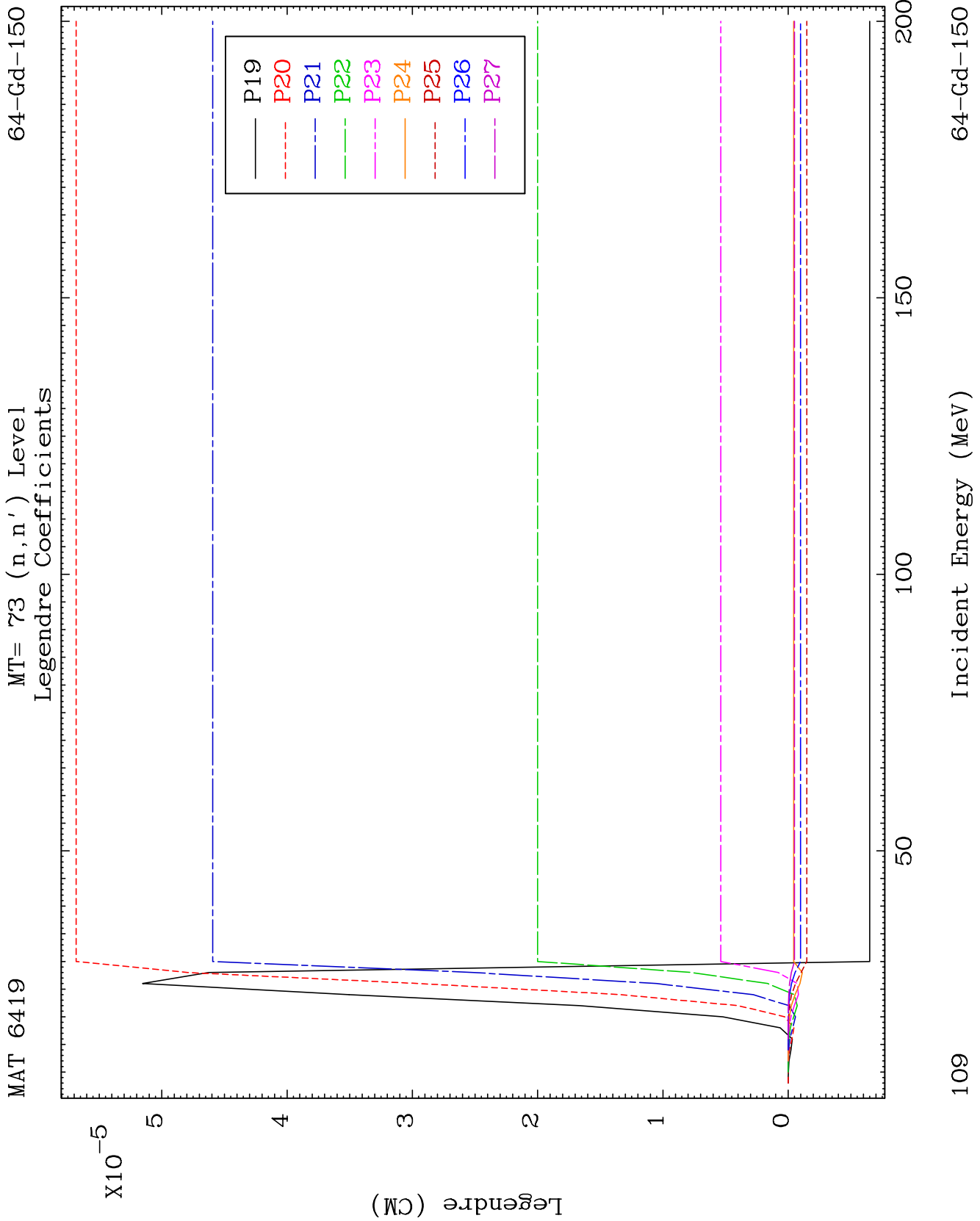
105

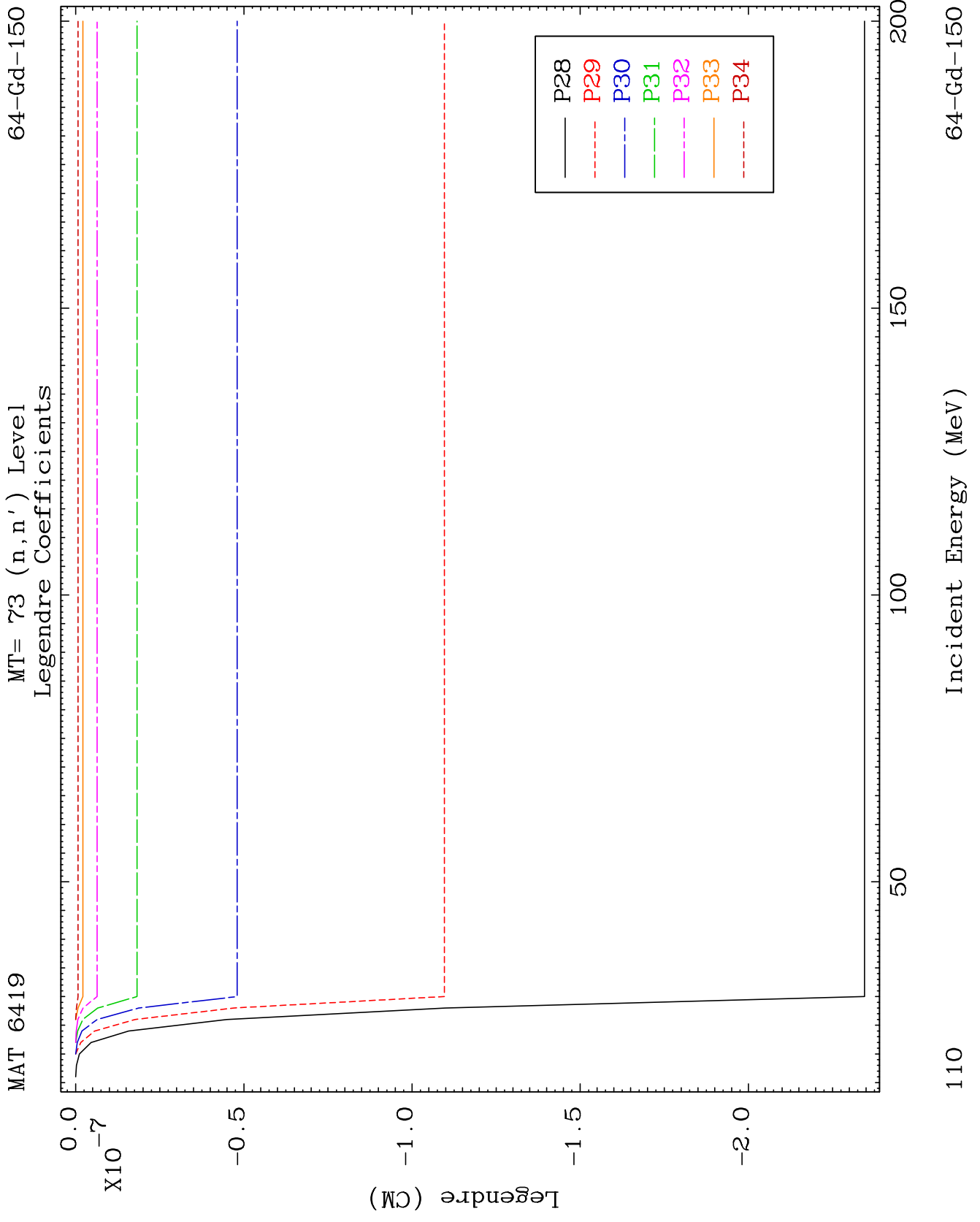
Incident Energy (MeV)

64-Gd-150





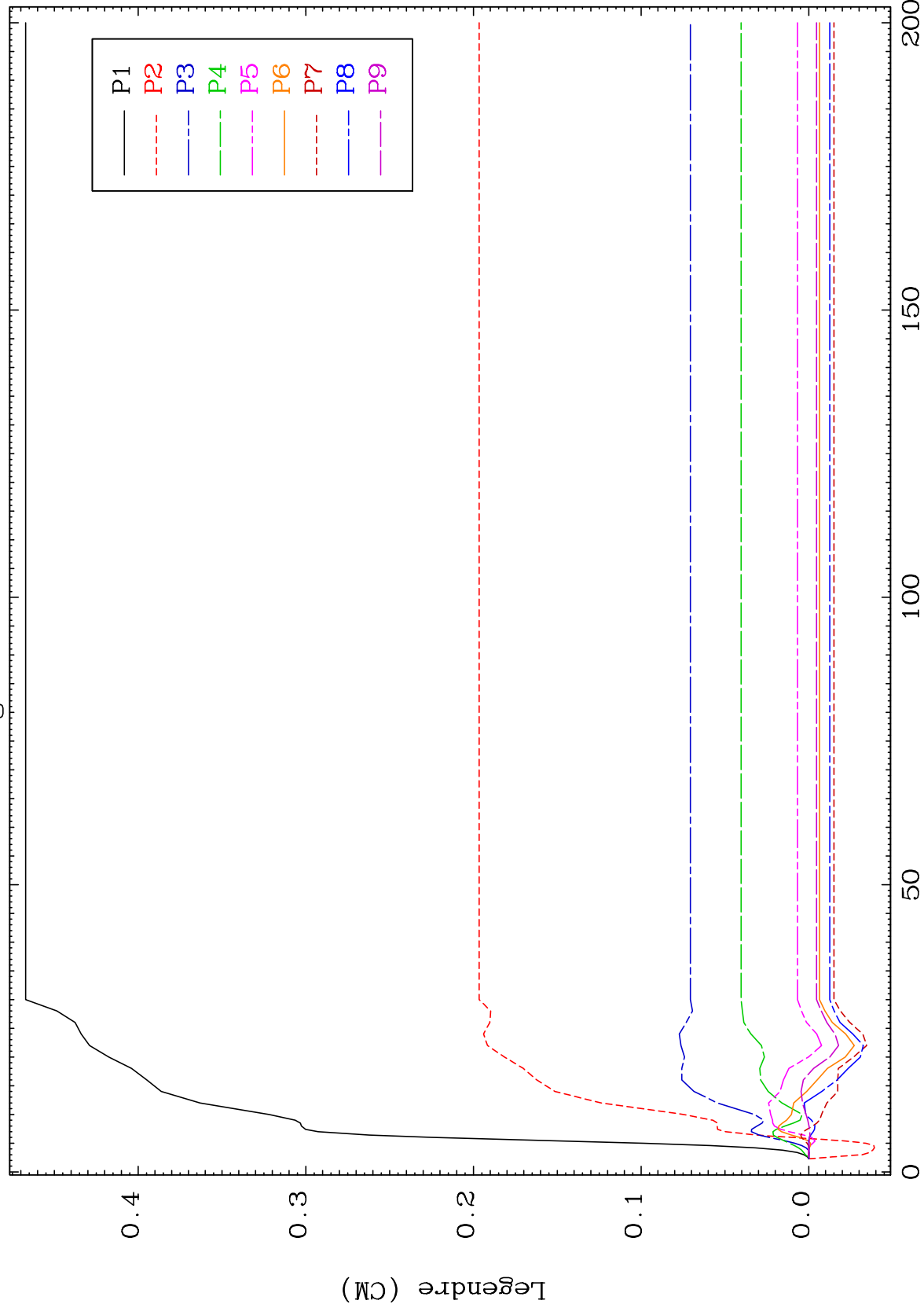




MAT 6419

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

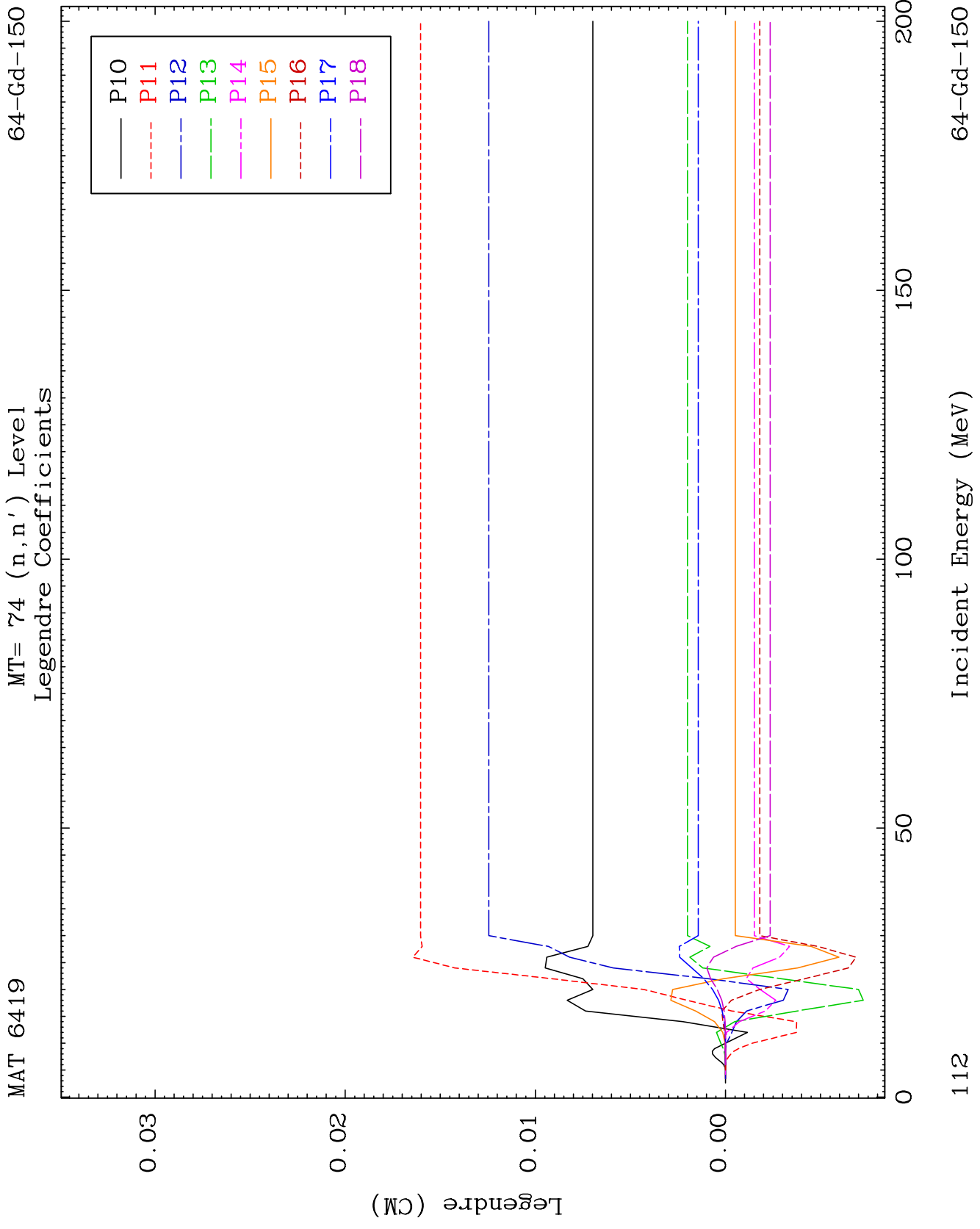
64-Gd-150



111

Incident Energy (MeV)

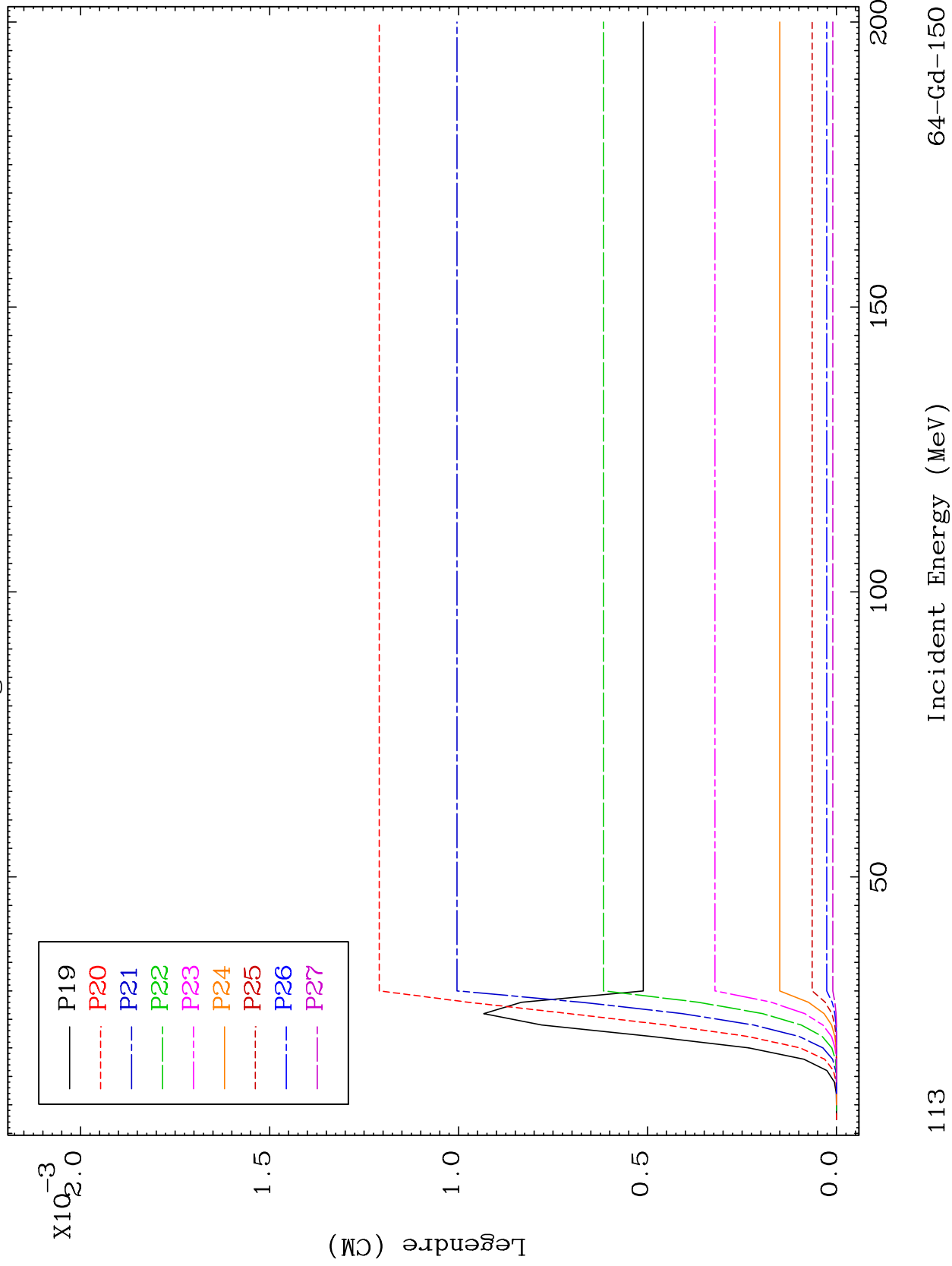
64-Gd-150



MAT 6419

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

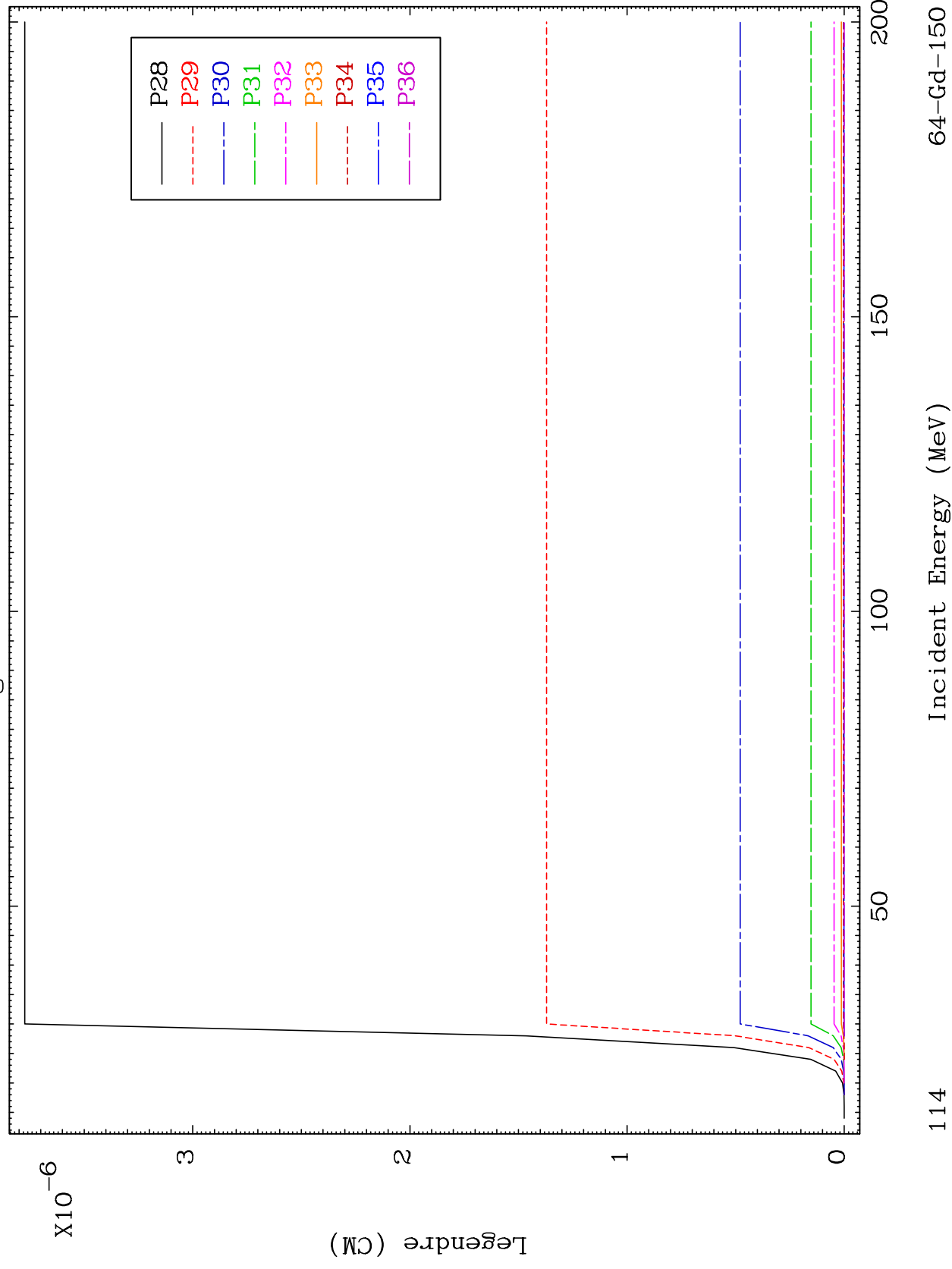
64-Gd-150



MAT 6419

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

64-Gd-150



114

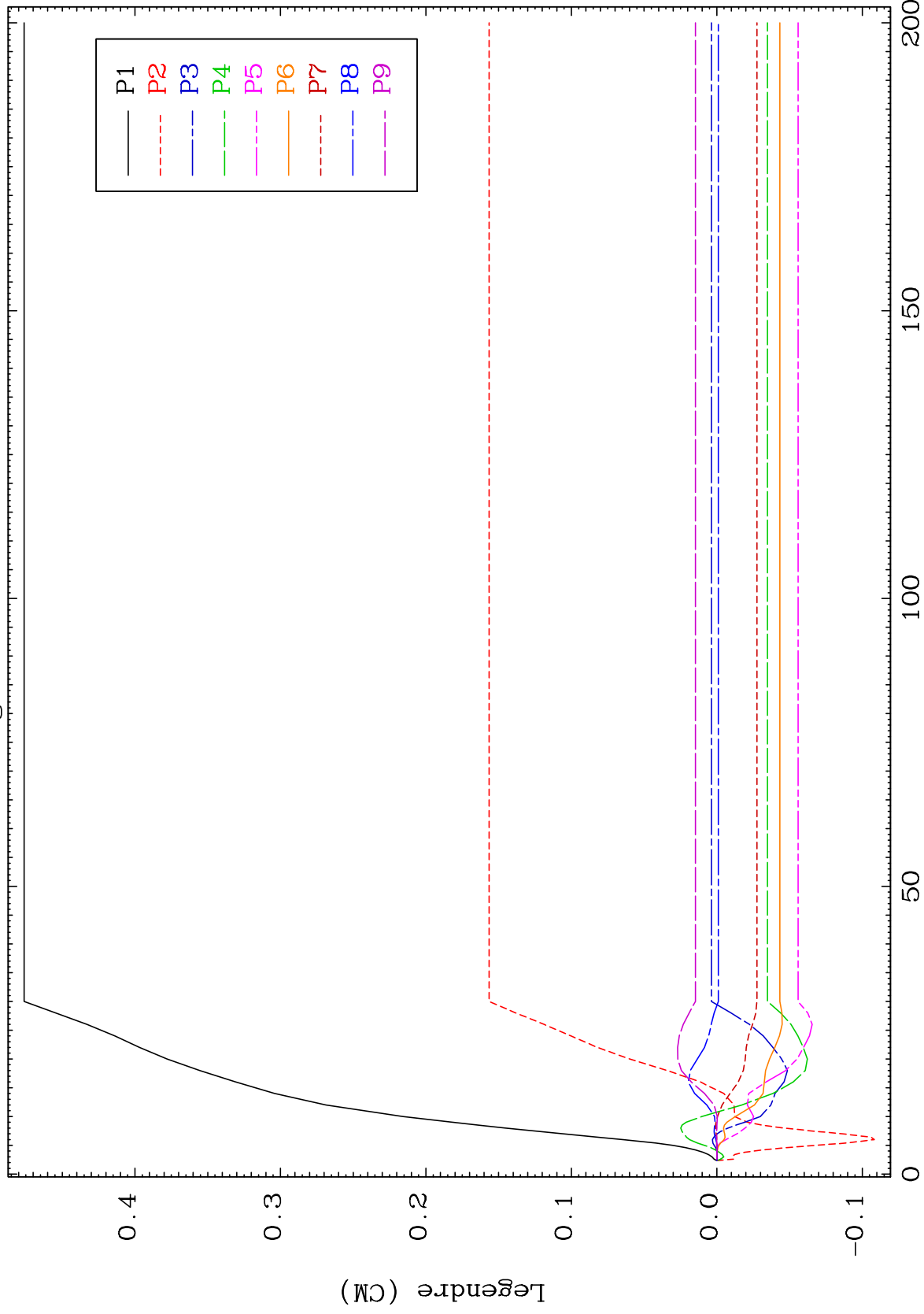
Incident Energy (MeV)

64-Gd-150

MAT 6419

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

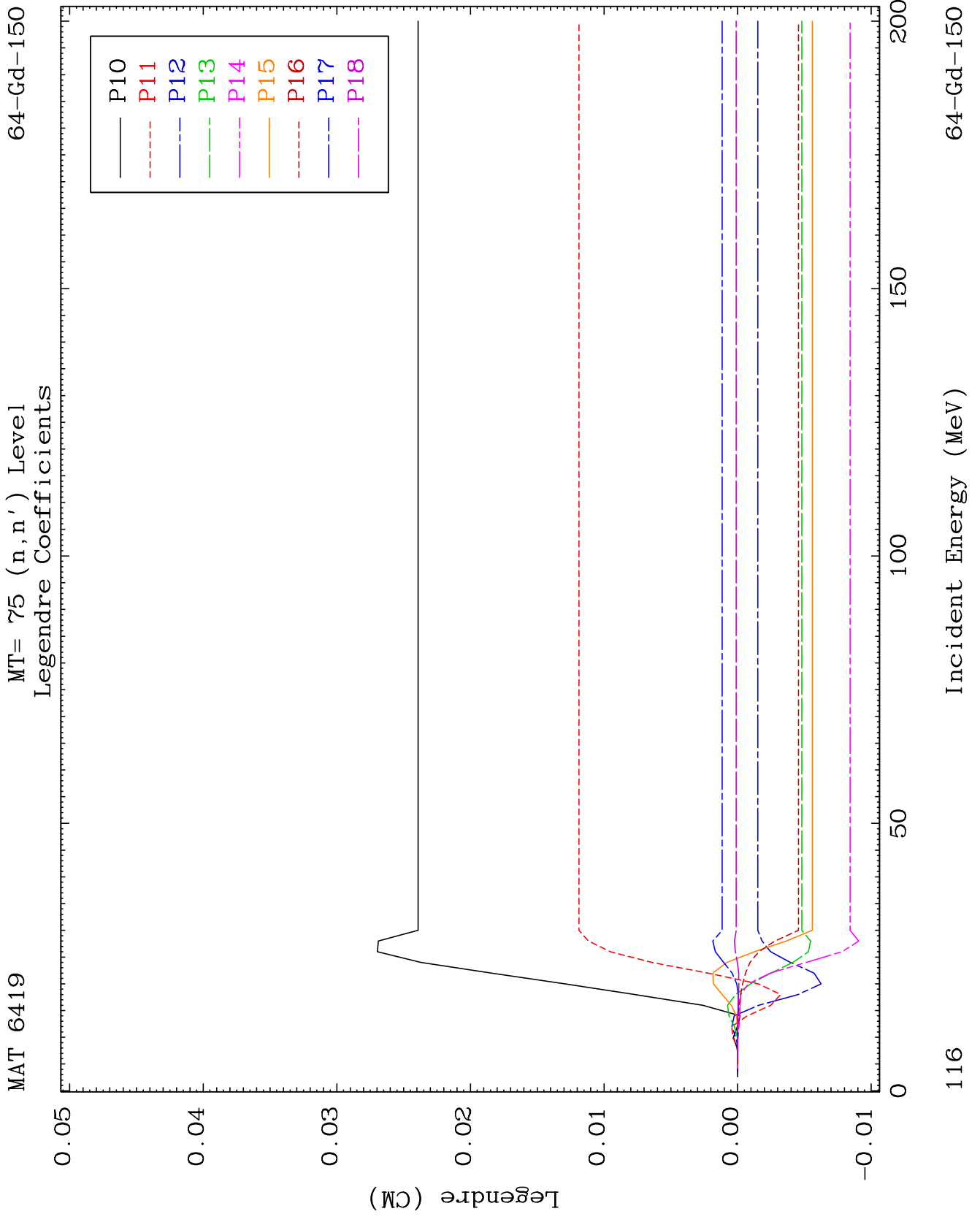
64-Gd-150



64-Gd-150

Incident Energy (MeV)

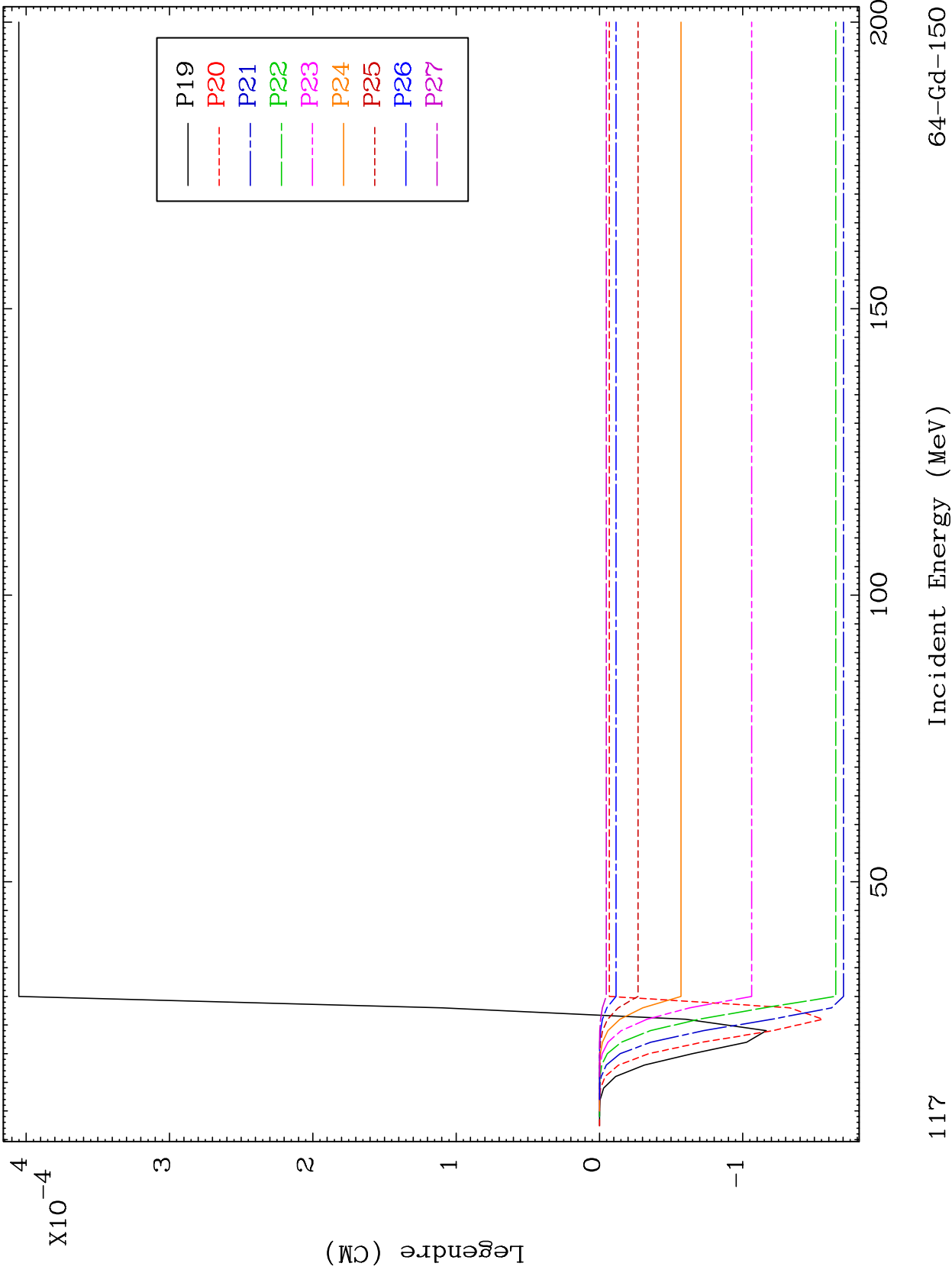
115



MAT 6419

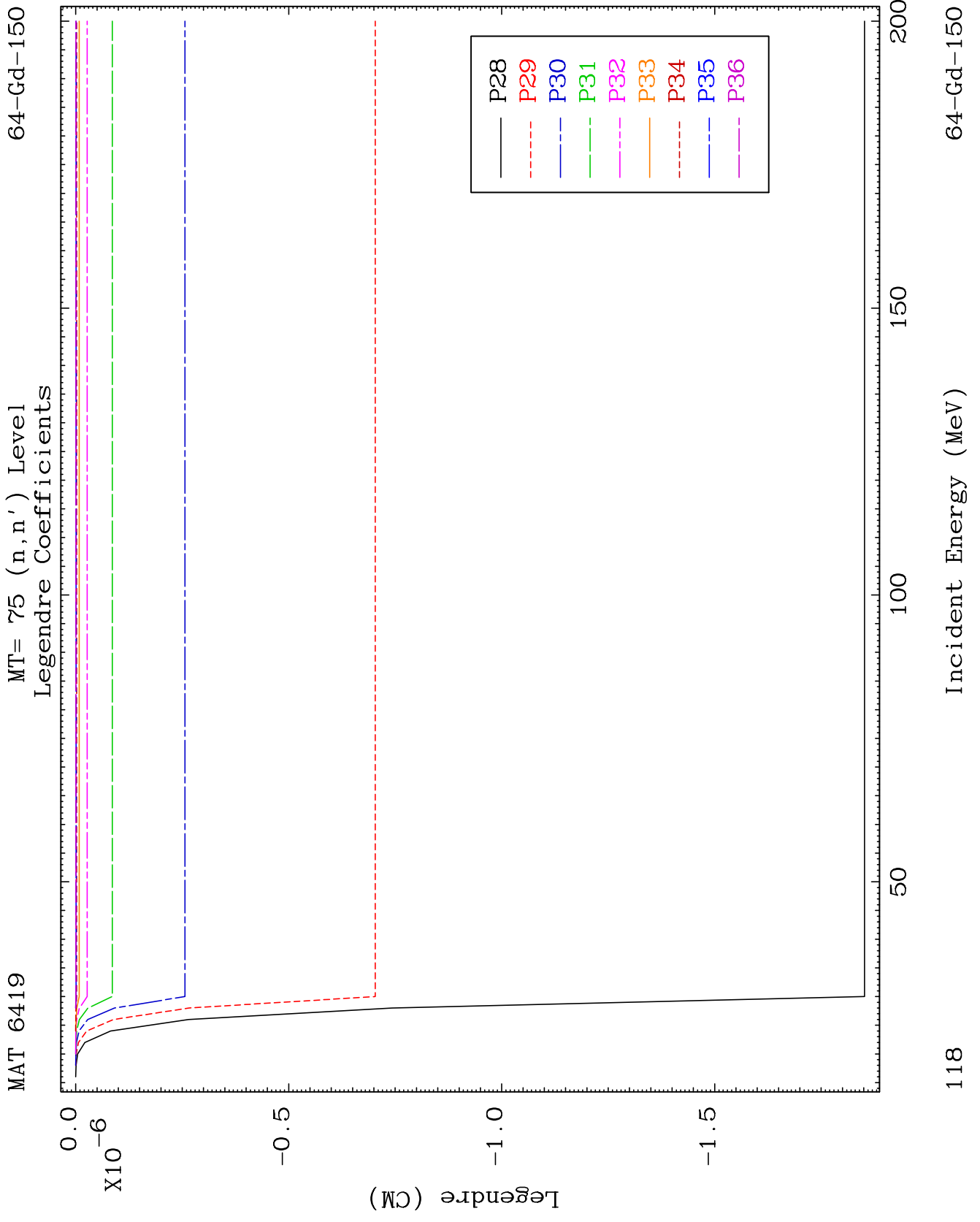
MT= 75 (n,n') Level
Legendre Coefficients

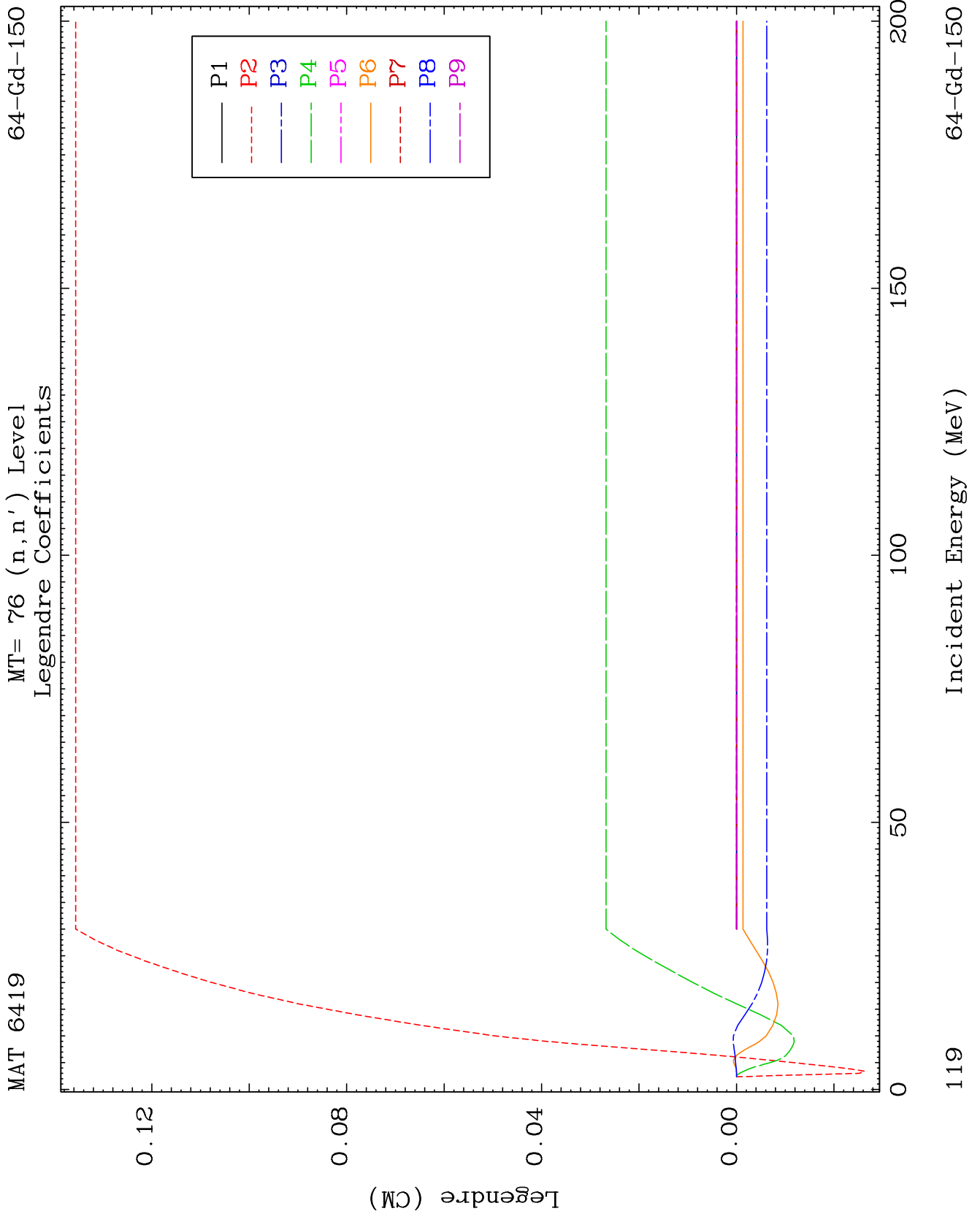
64-Gd-150



117

64-Gd-150

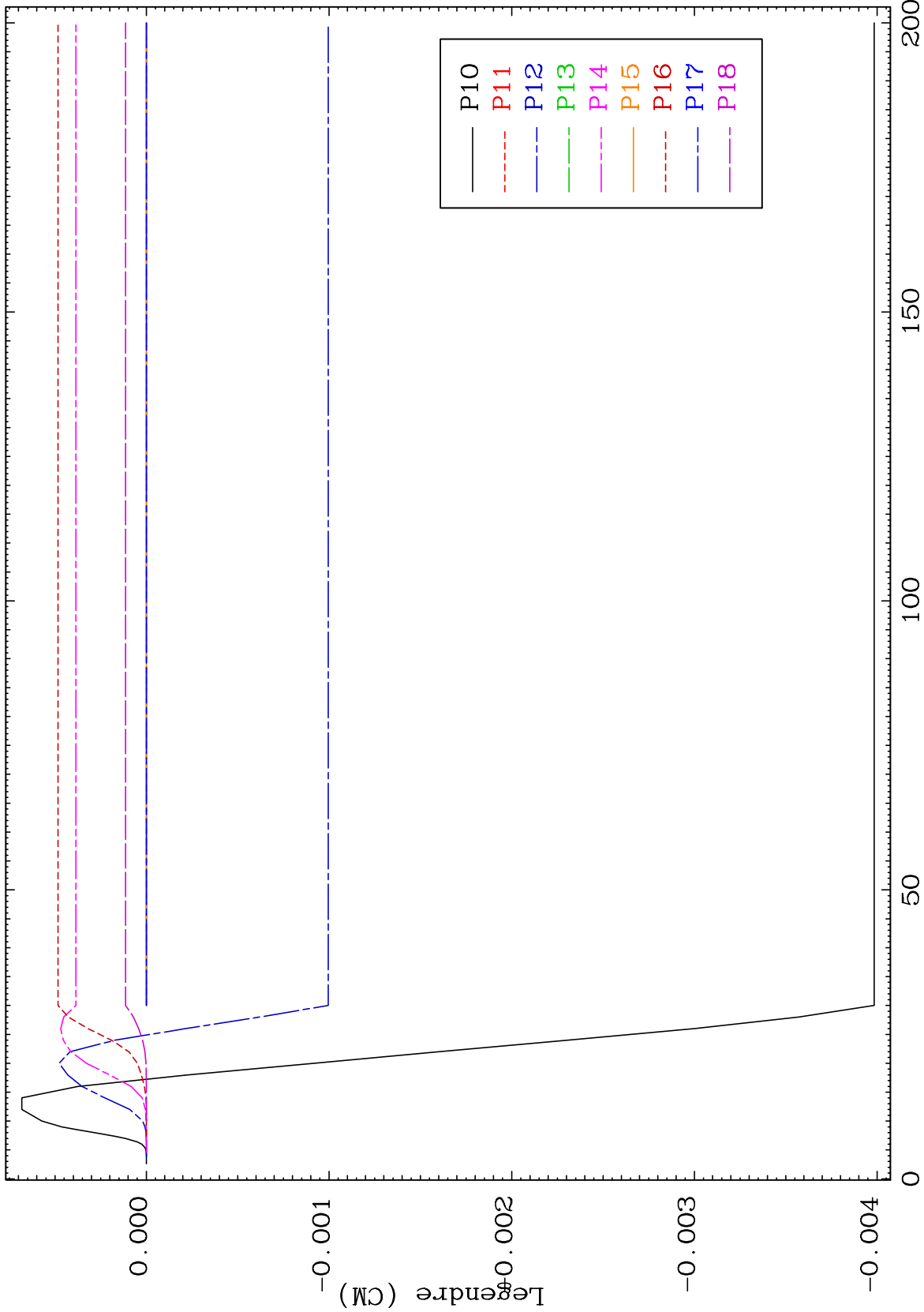




MAT 6419

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

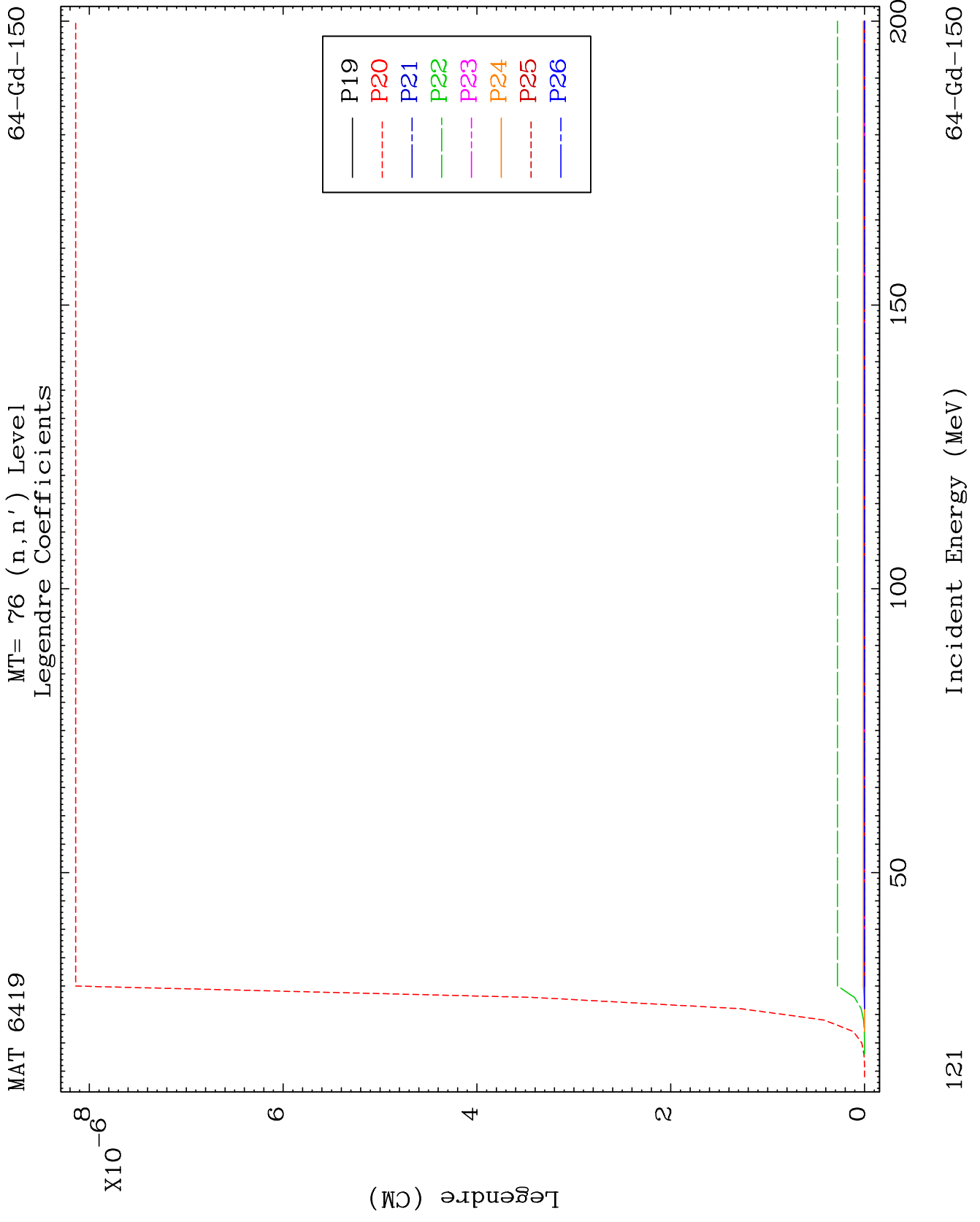
64-Gd-150



120

Incident Energy (MeV)

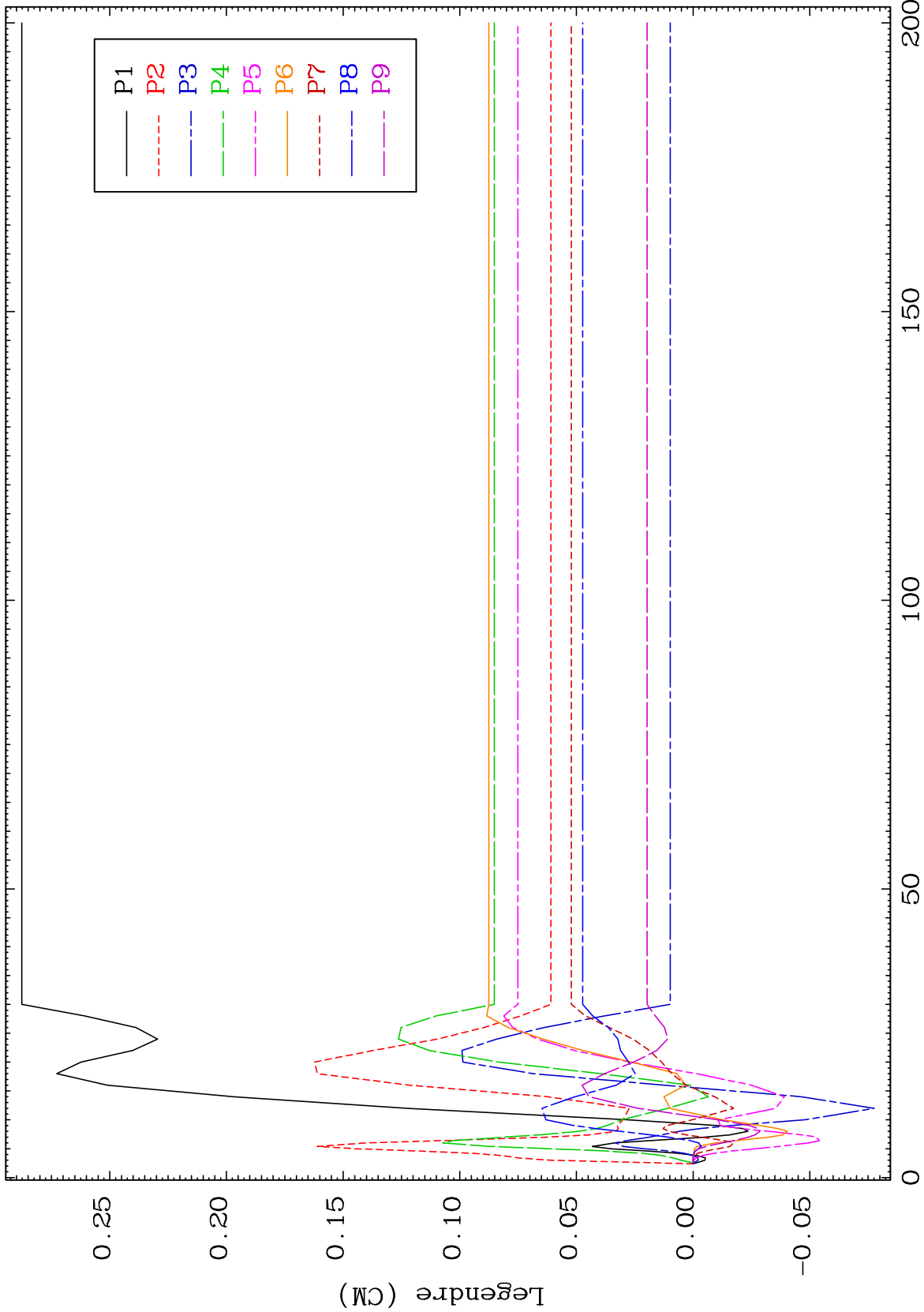
64-Gd-150



MAT 6419

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

64-Gd-150



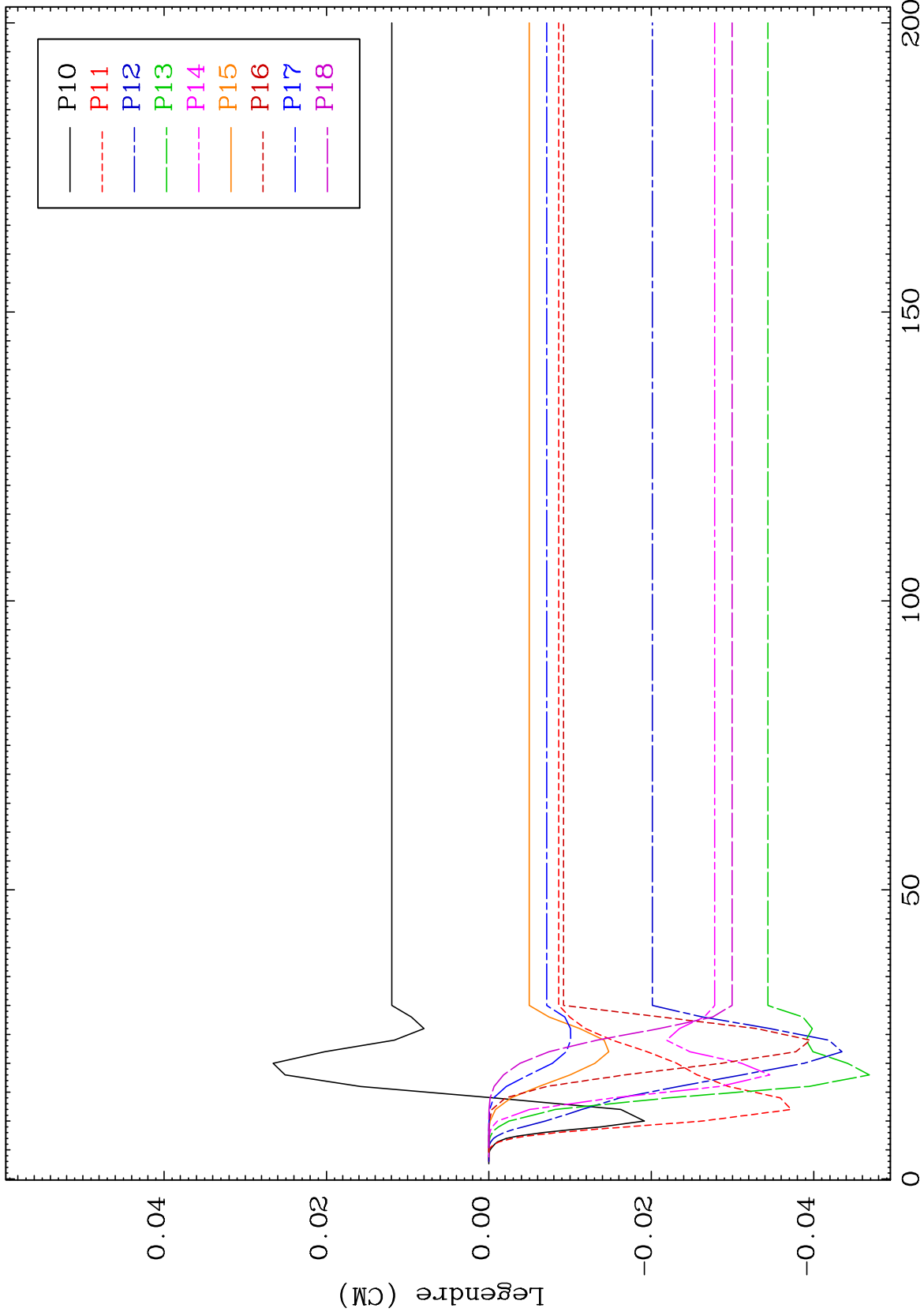
122

64-Gd-150

MAT 6419

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

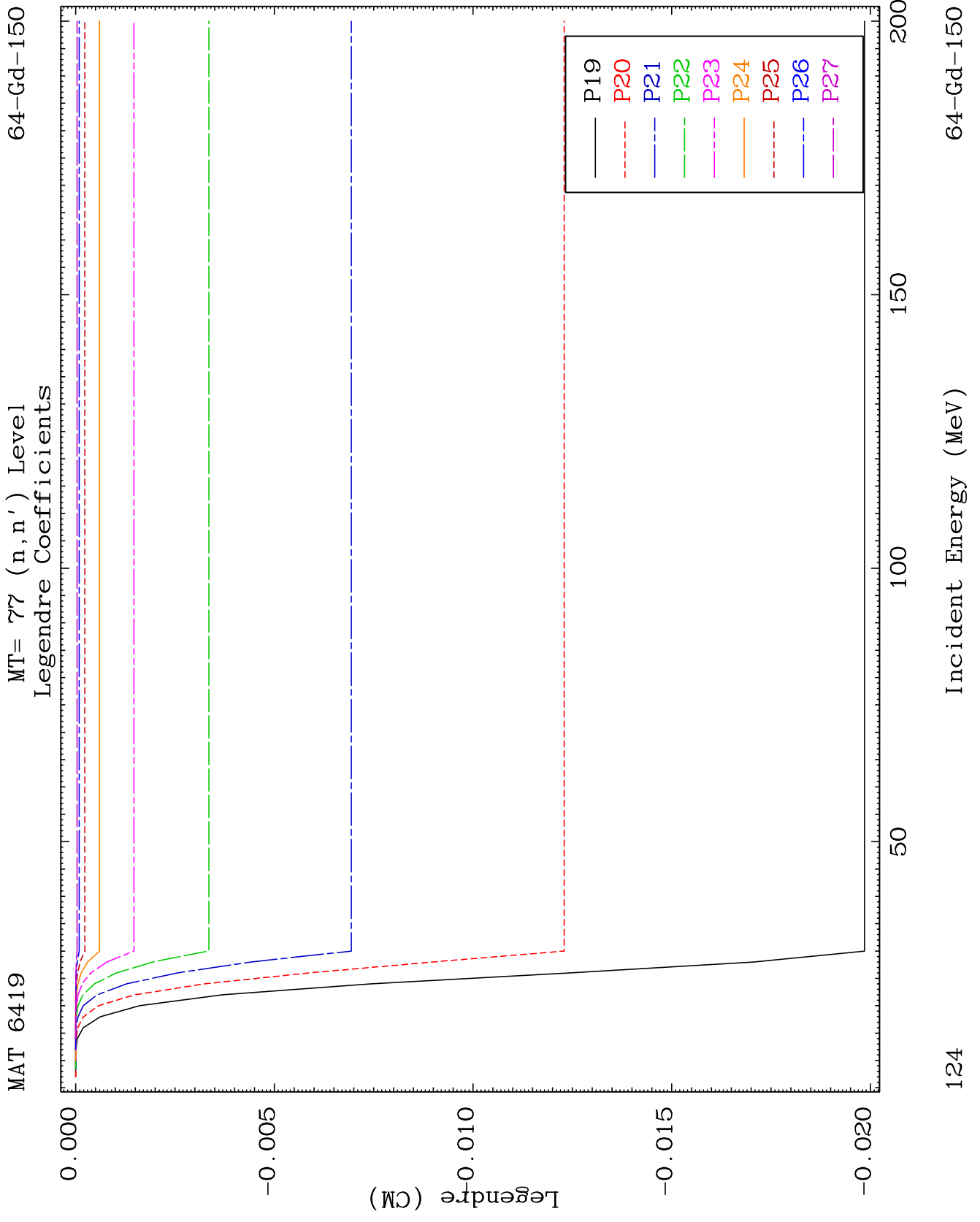
64-Gd-150

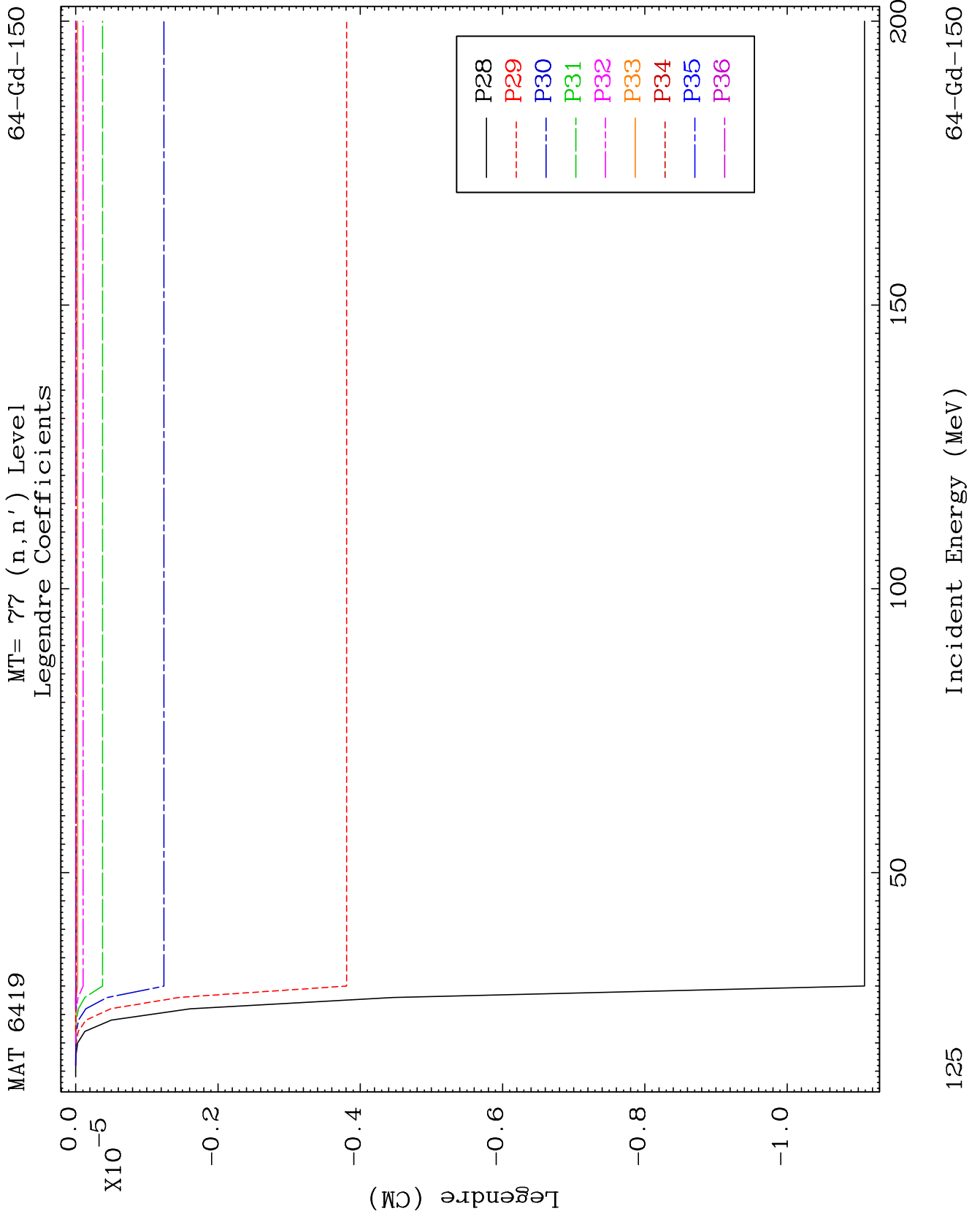


123

Incident Energy (MeV)

64-Gd-150

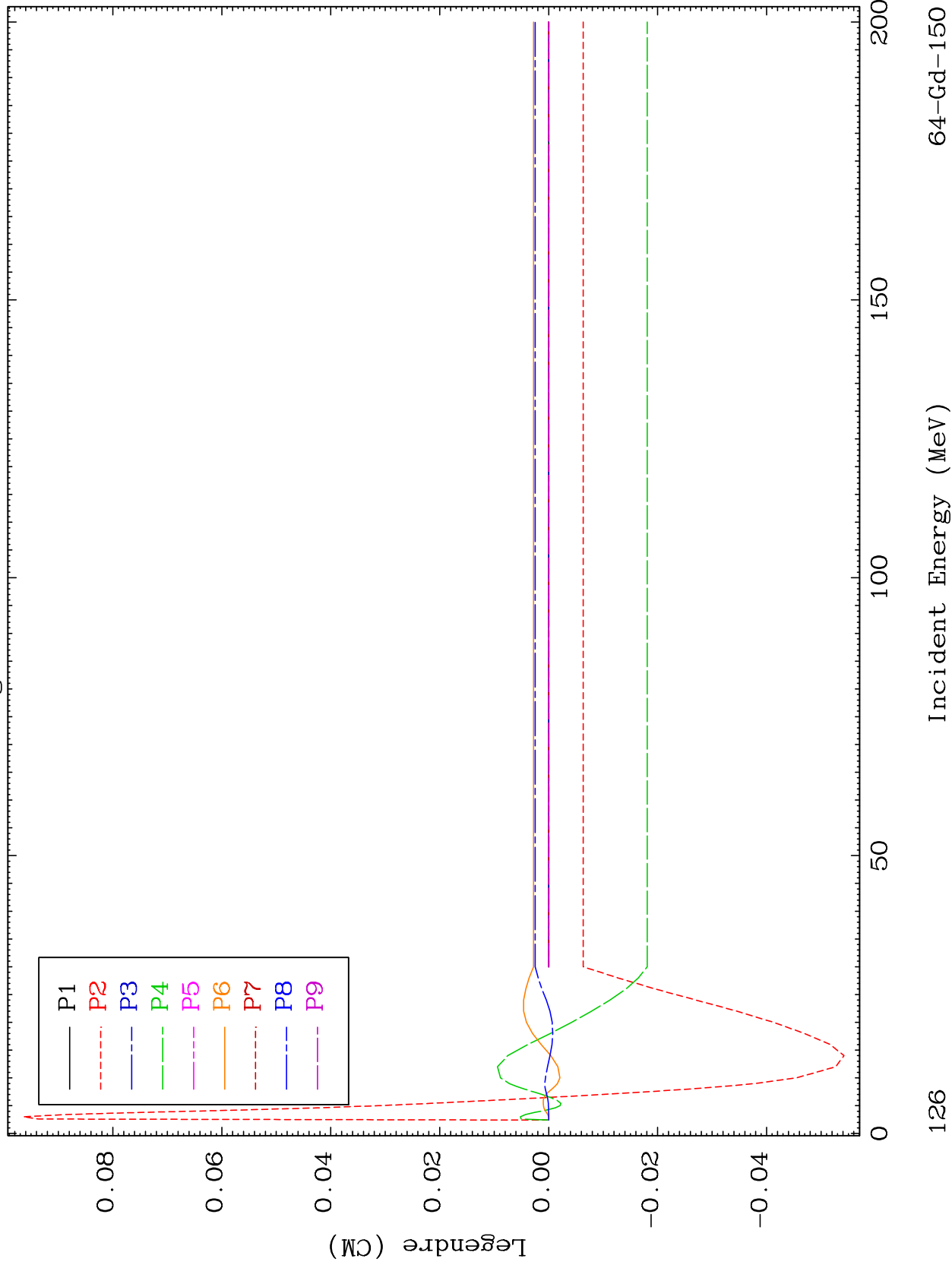




MAT 6419

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

64-Gd-150



126

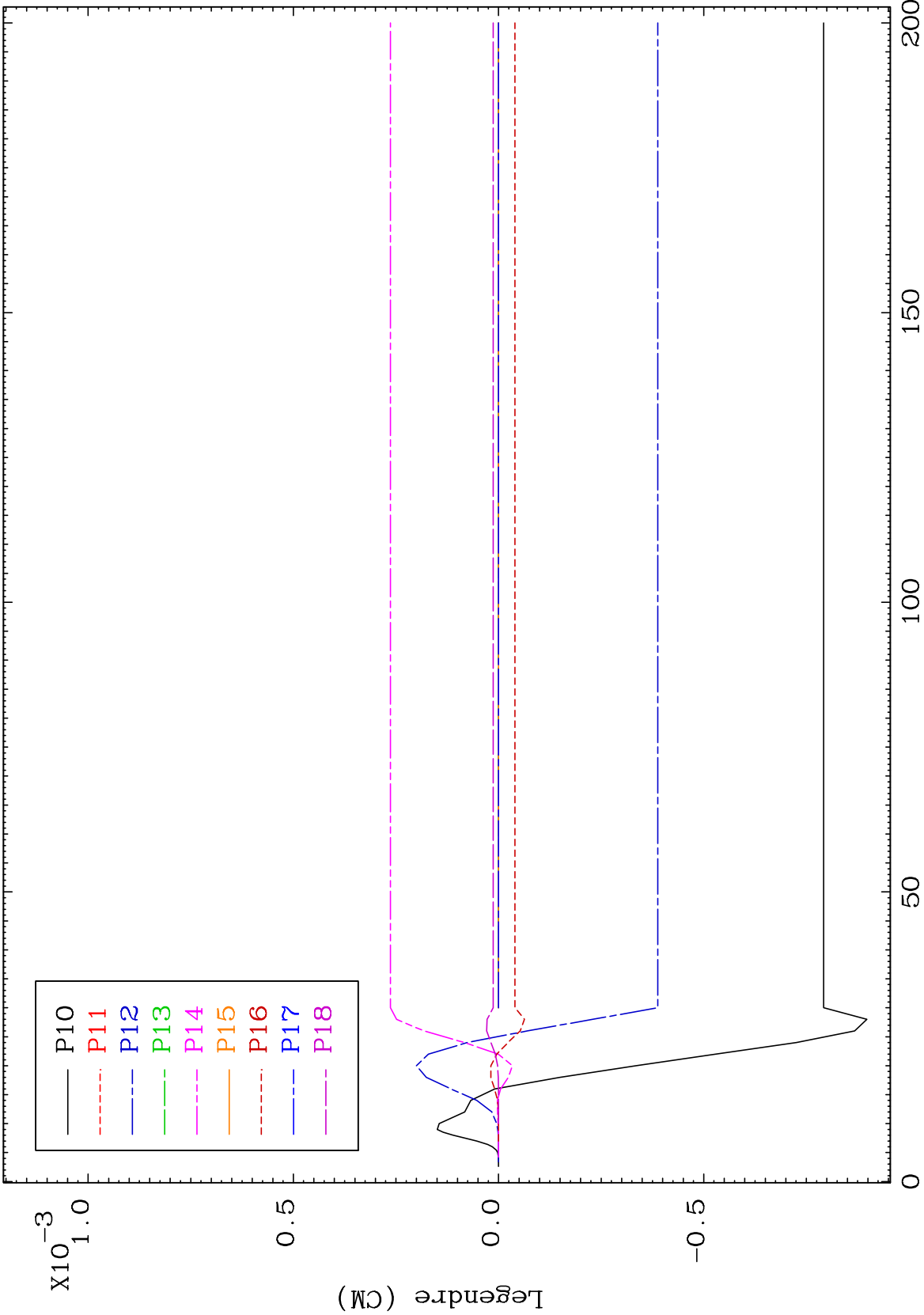
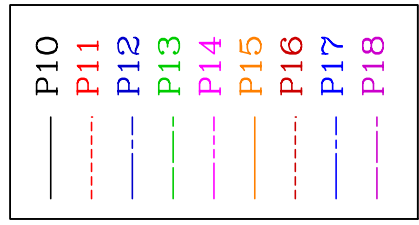
Incident Energy (MeV)

64-Gd-150

MAT 6419

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

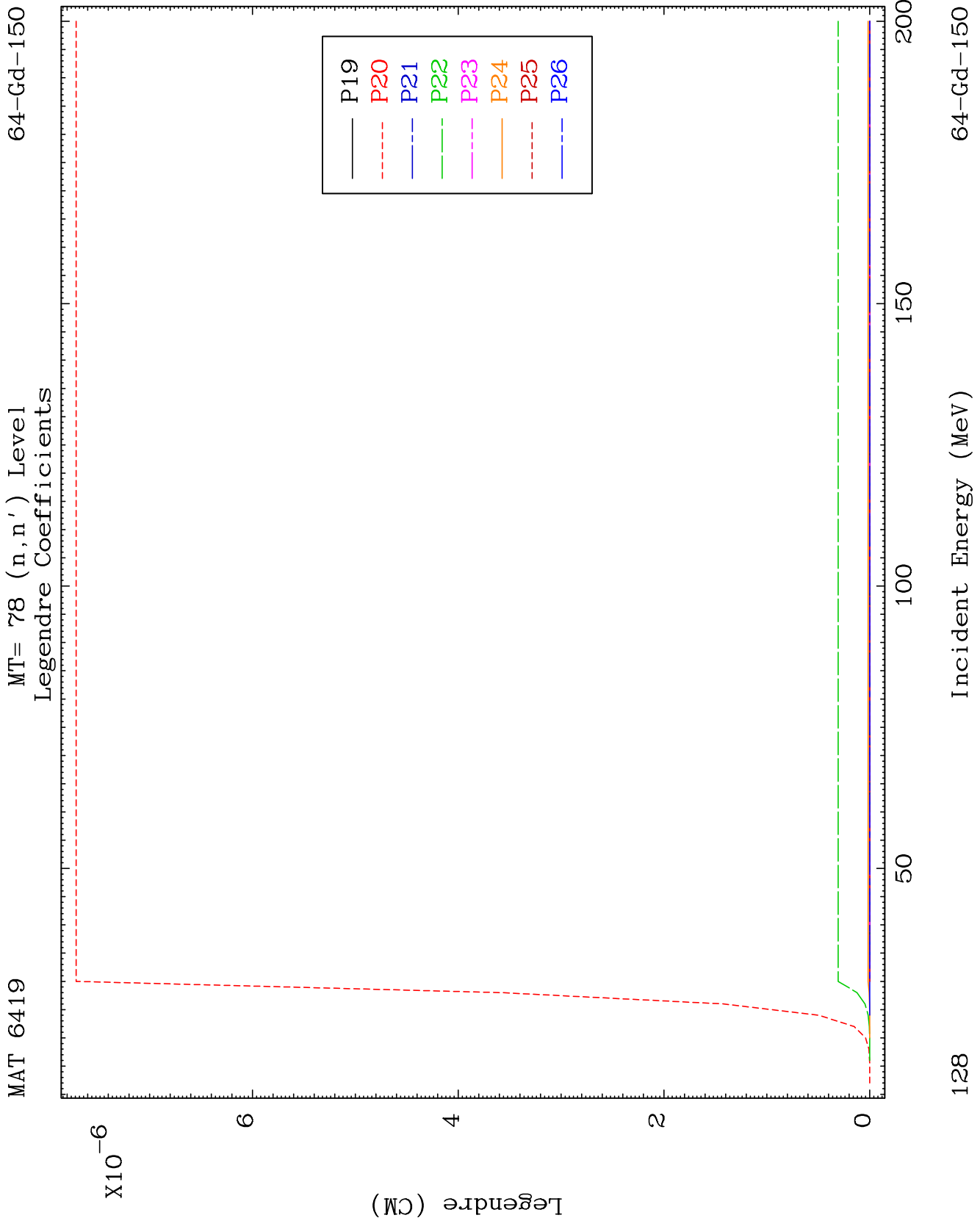
64-Gd-150

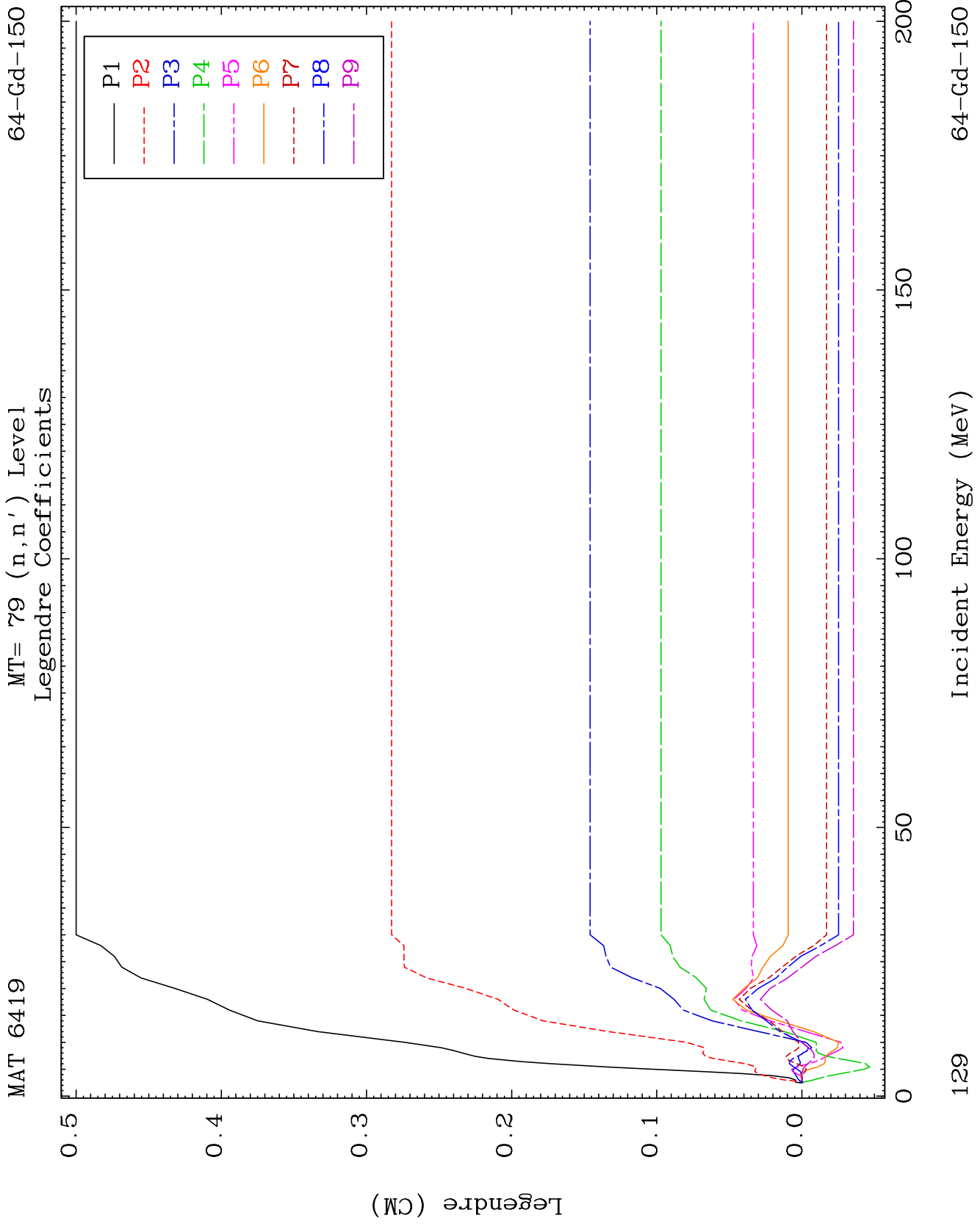


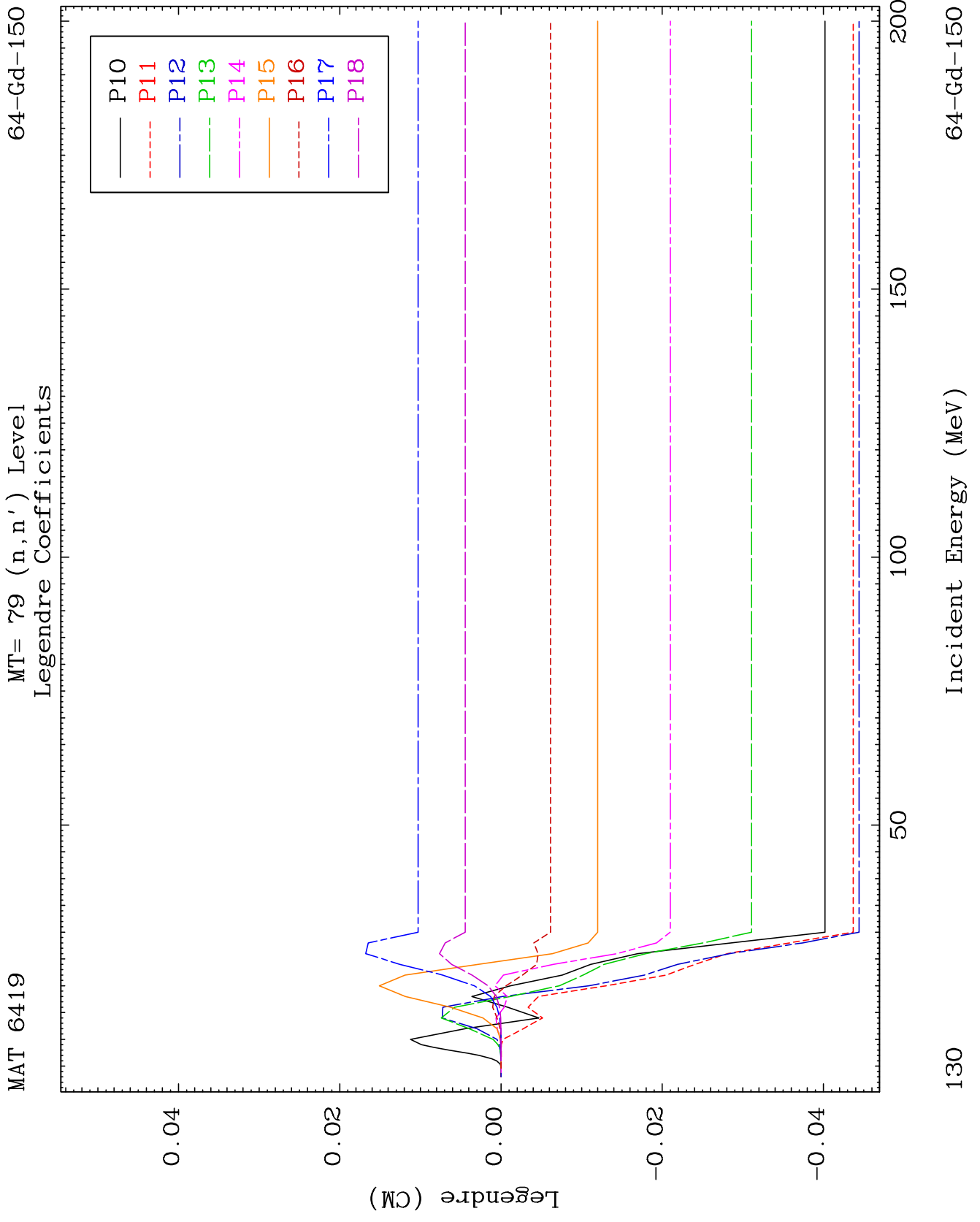
127

Incident Energy (MeV)

64-Gd-150



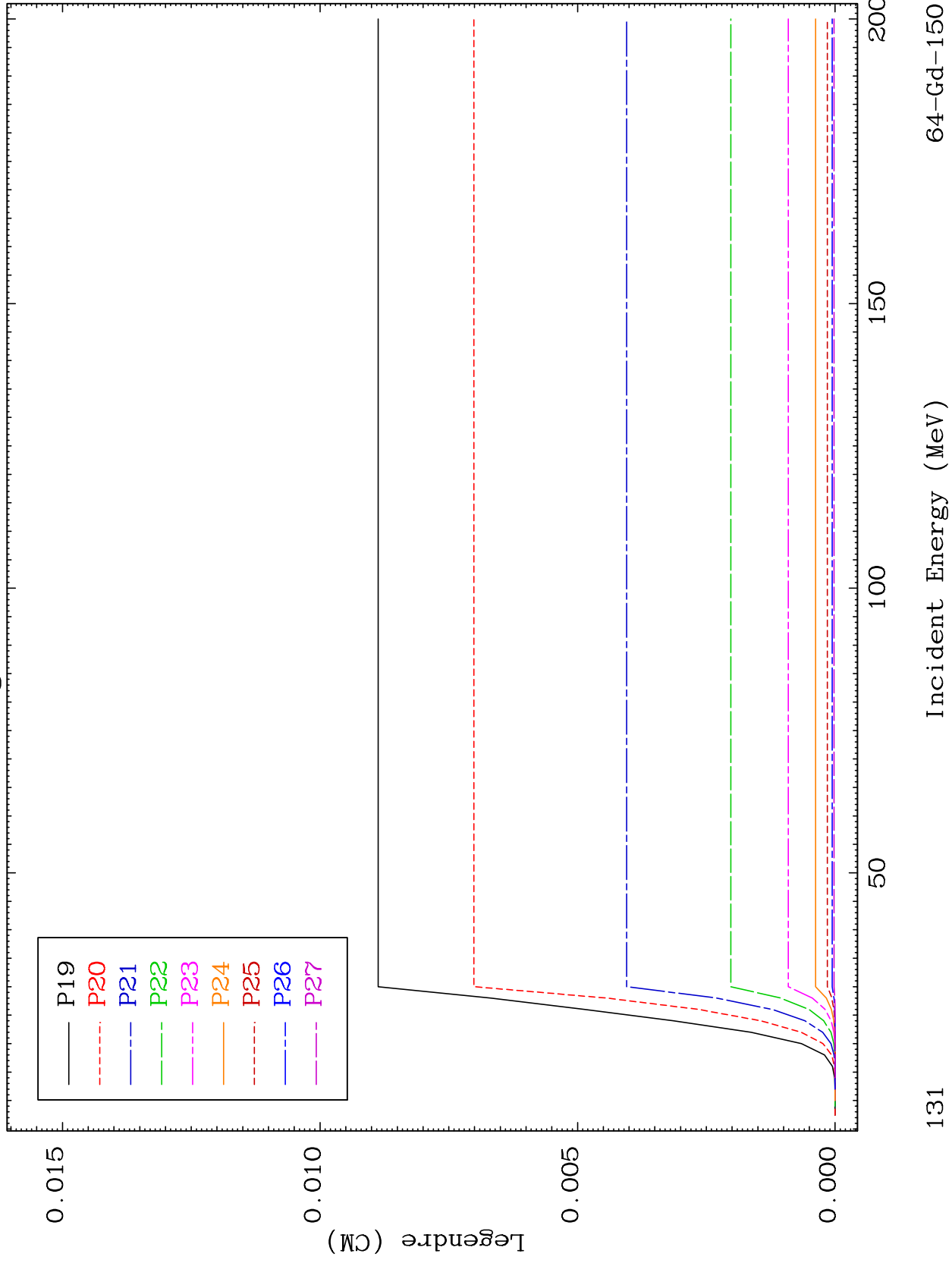




MAT 6419

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

64-Gd-150



131

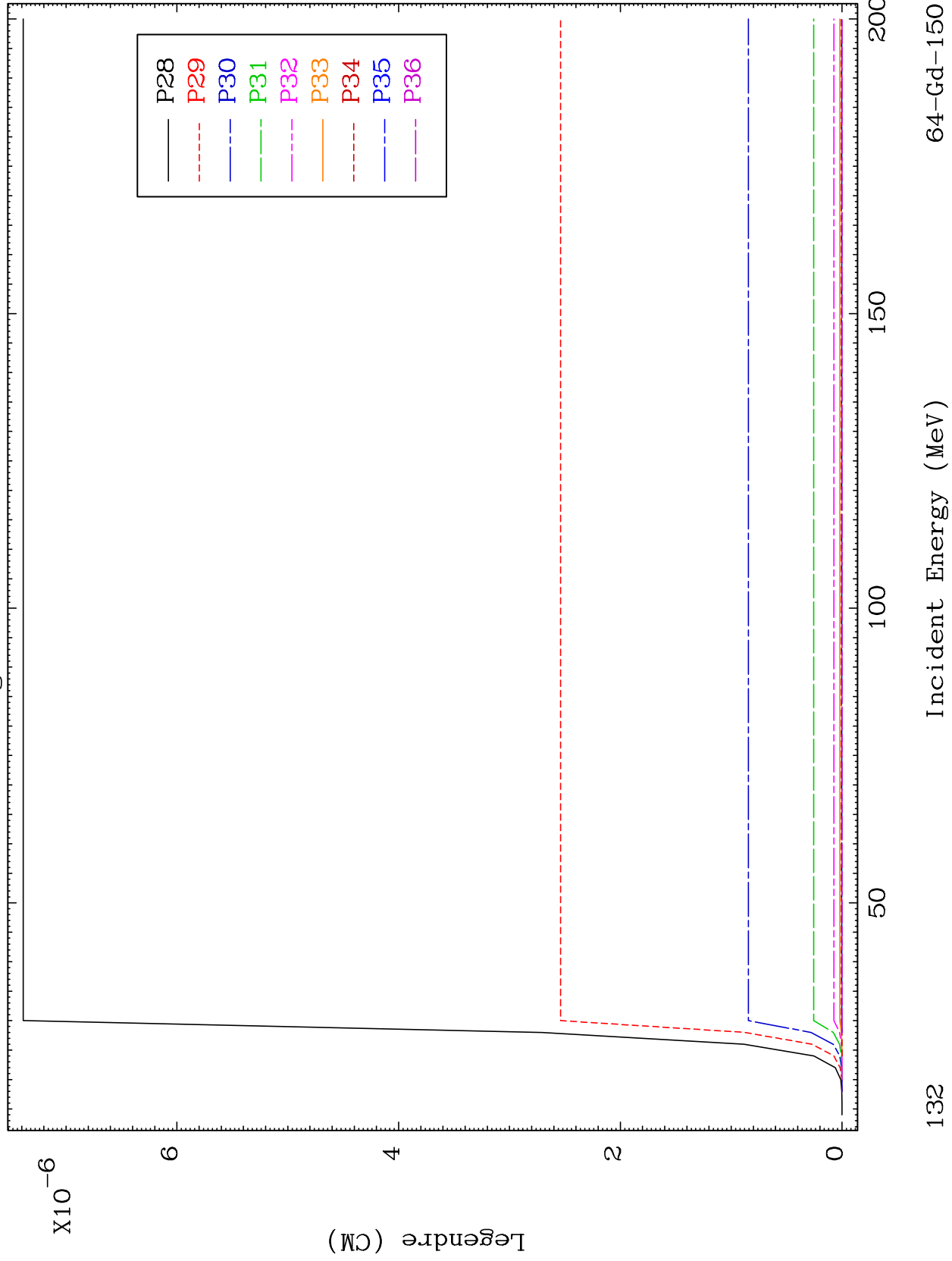
Incident Energy (MeV)

64-Gd-150

MAT 6419

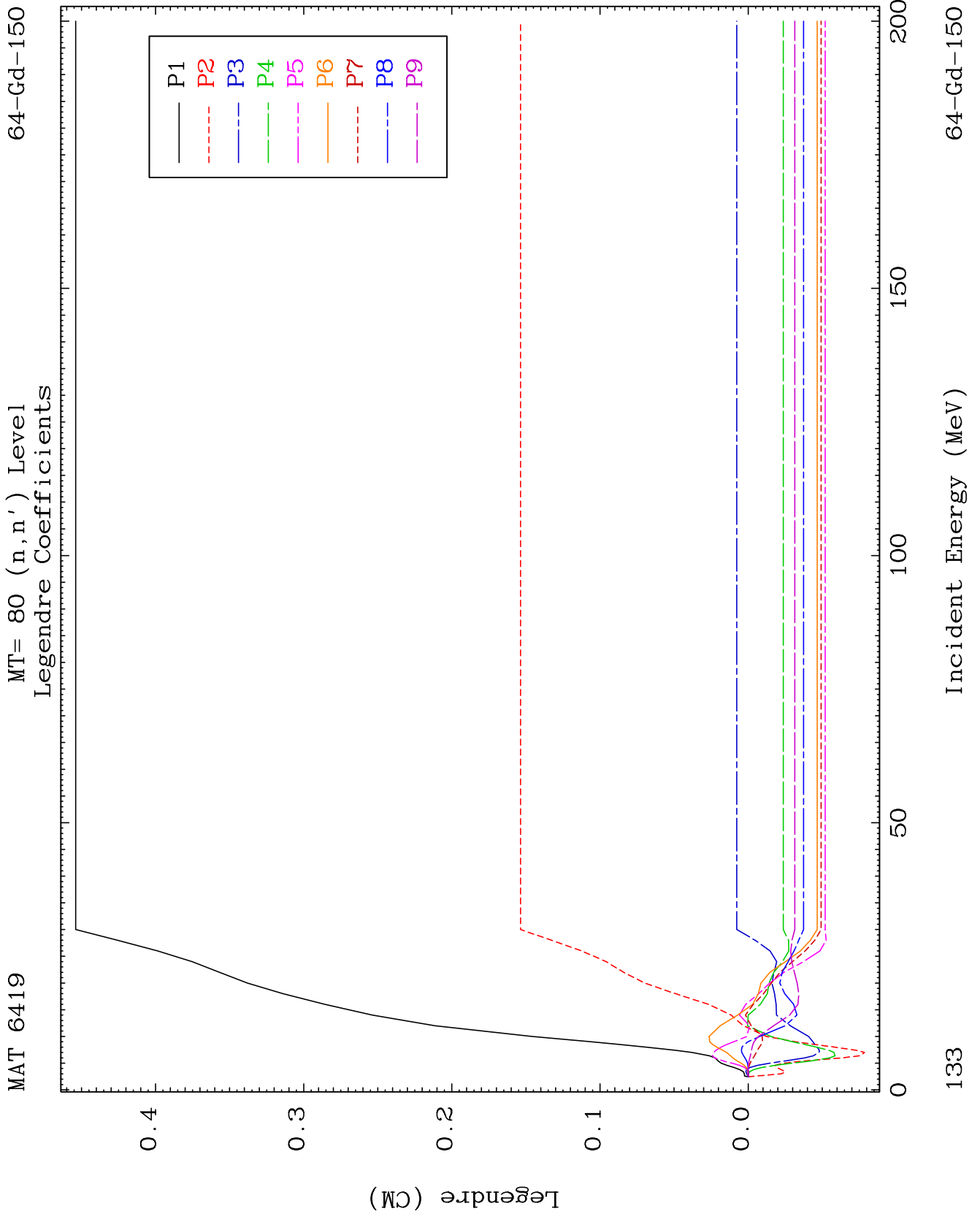
MT= 79 (n,n') Level
Legendre Coefficients

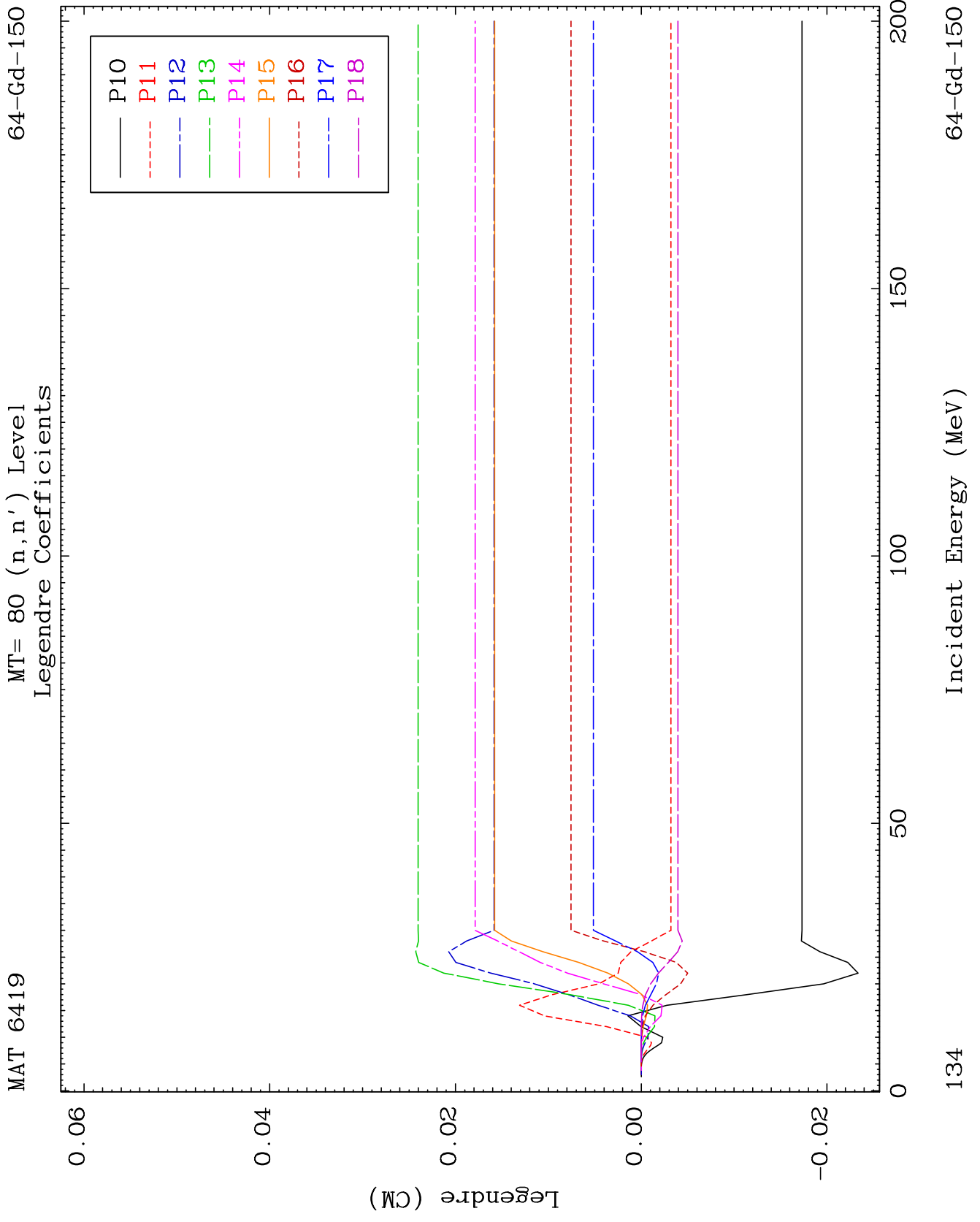
64-Gd-150

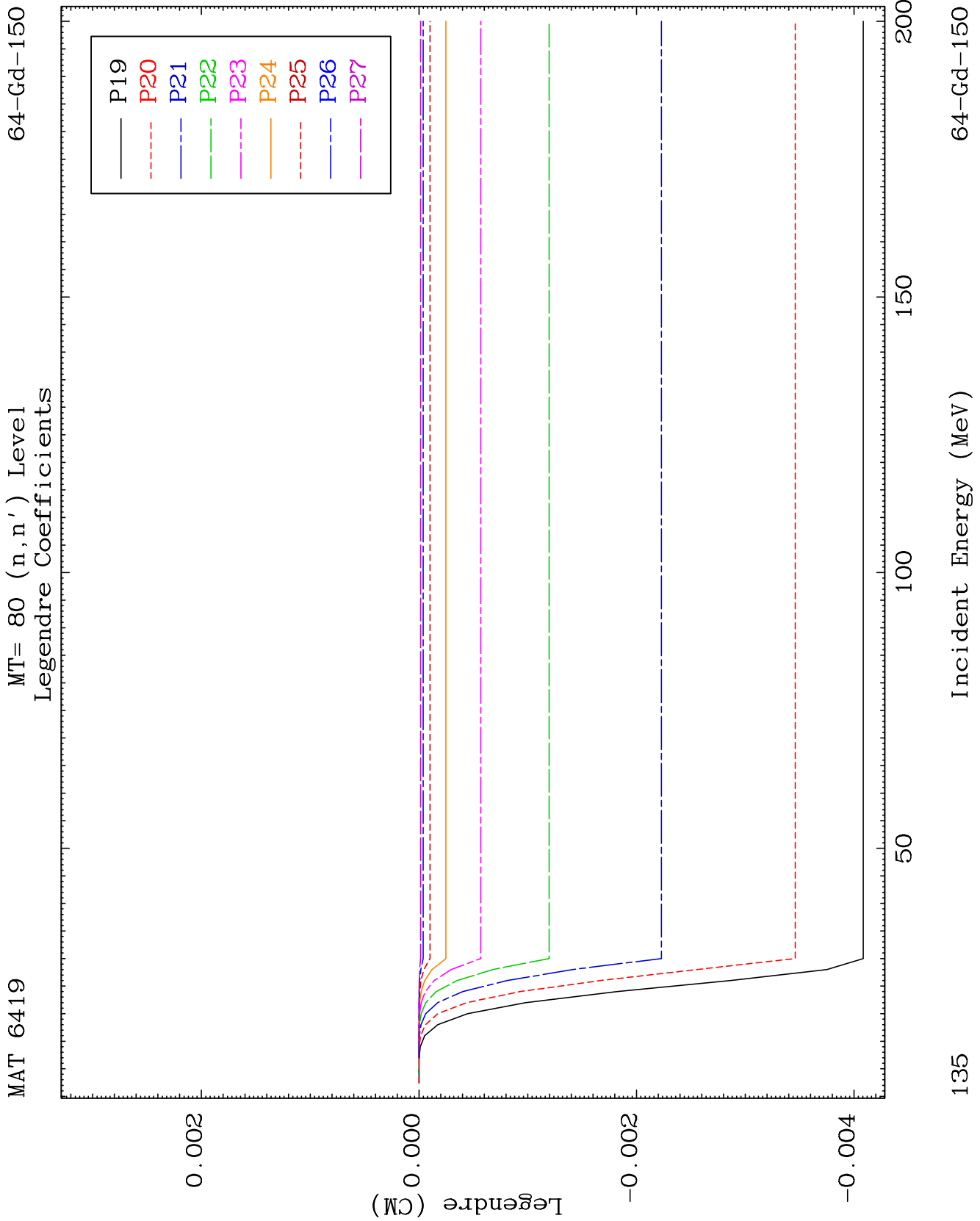


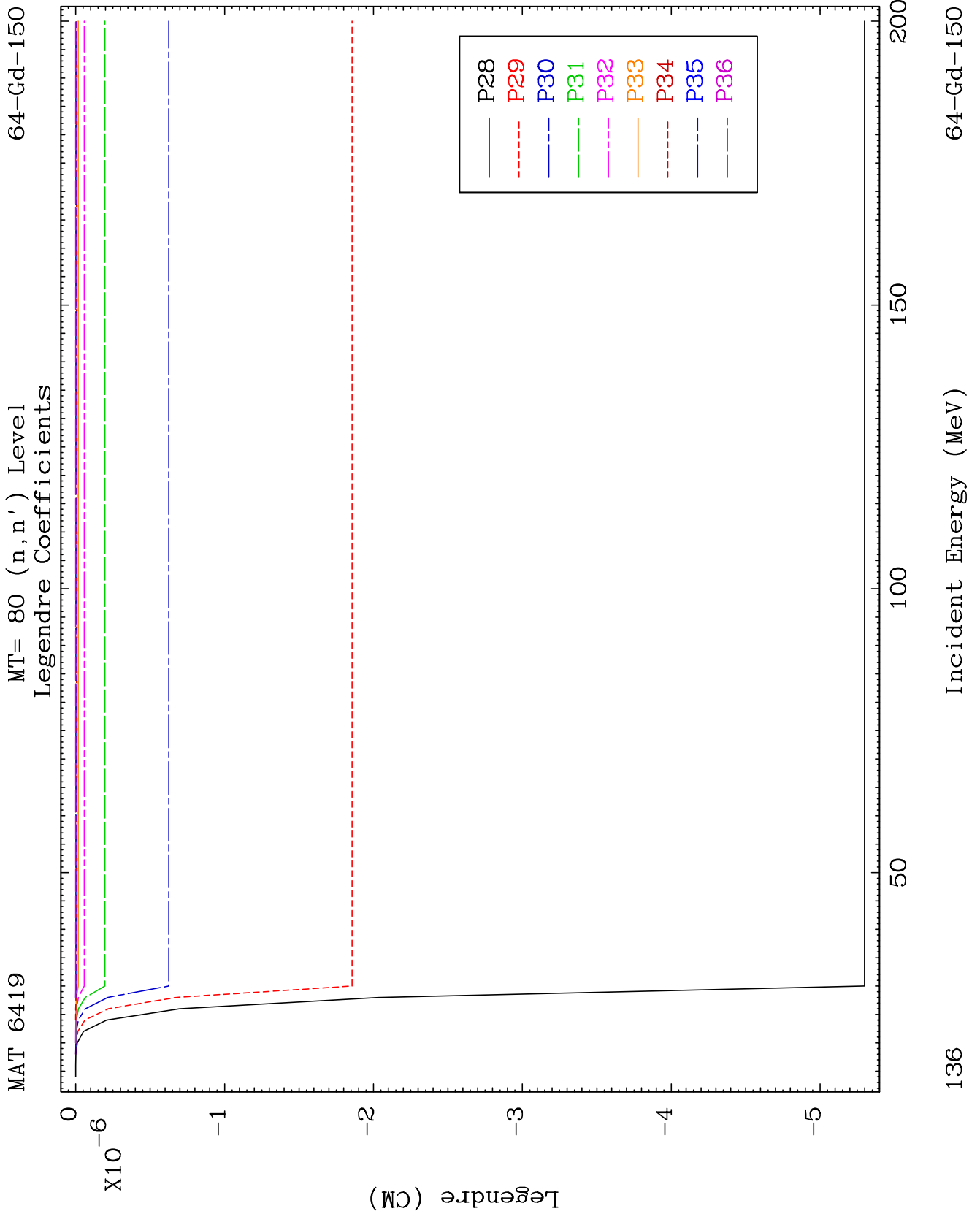
132

64-Gd-150







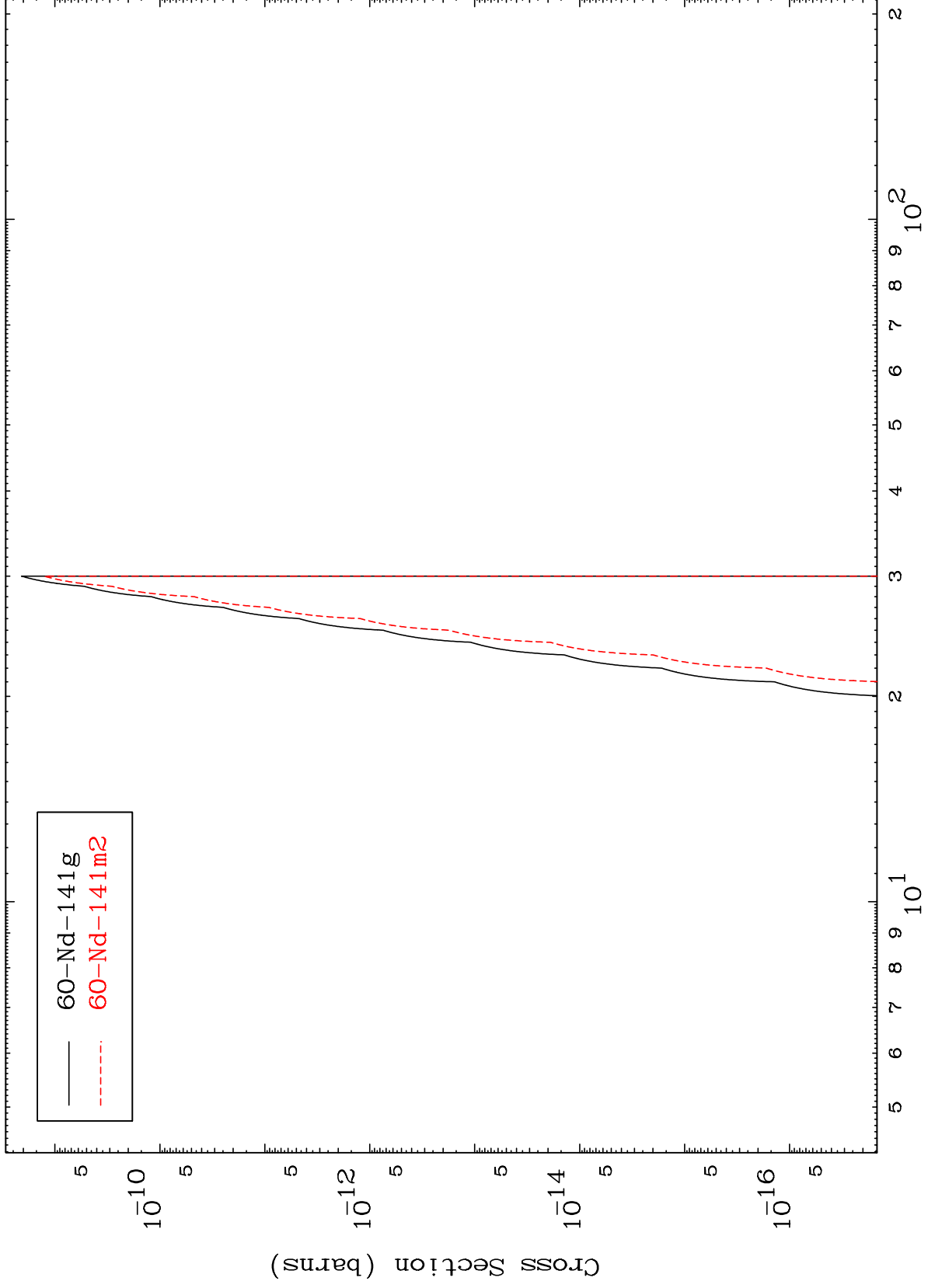


MAT 6419

$(n,2n) 2\alpha$

64-Gd-150

Radionuclide Production Cross Section



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

137

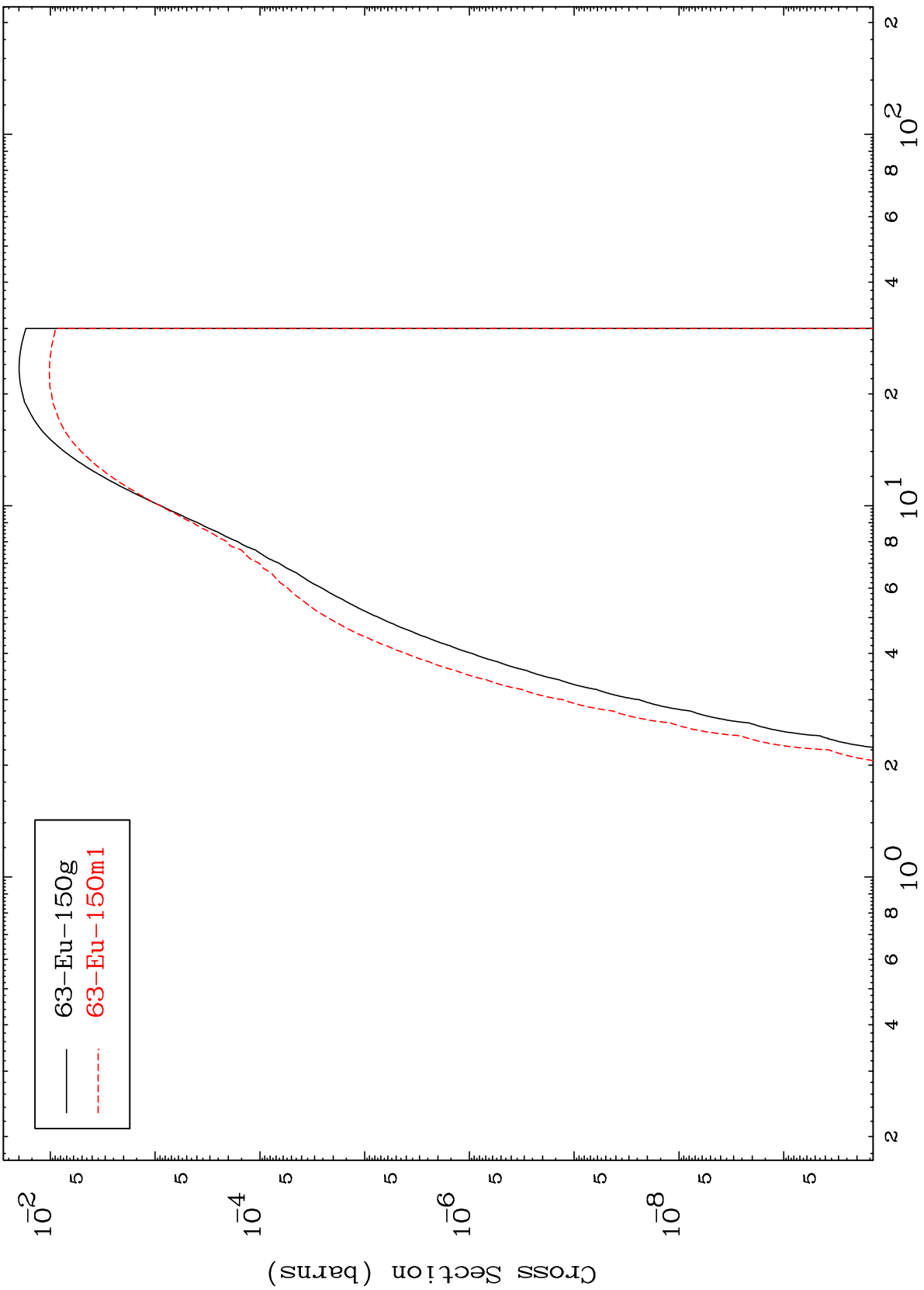
Incident Energy (MeV)

64-Gd-150

MAT 6419

64-Gd-150

(n,p)
Radionuclide Production Cross Section



— 63-Eu-150g
- - - 63-Eu-150m1

64-Gd-150

Incident Energy (MeV)

138