

Program EVALPLOT
(Version 2021-1)

by

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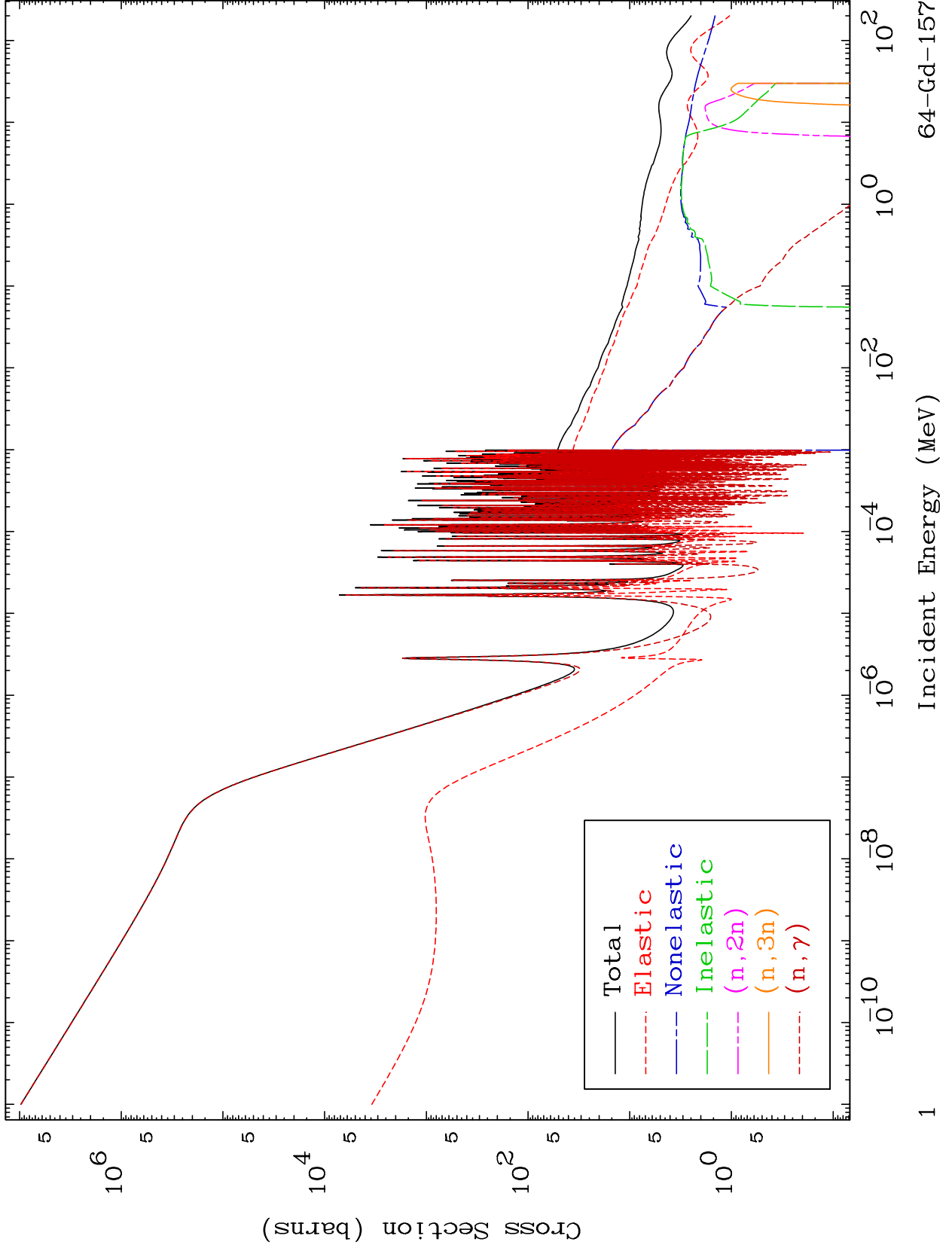
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Press Mouse Button to Start

MAT 6440

Neutron Major
293 Kelvin Cross Sections

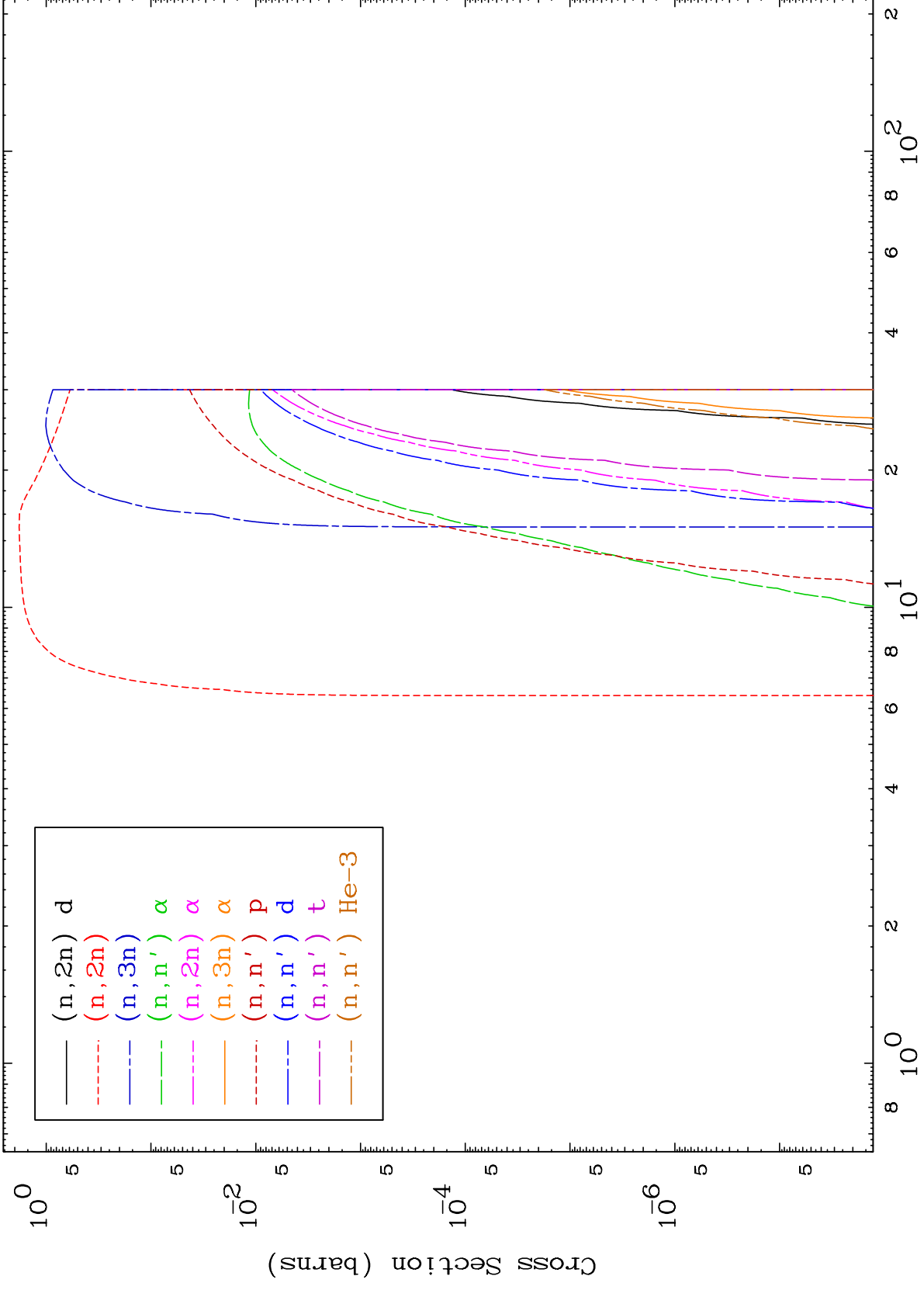
64-Gd-157



MAT 6440

Neutron Absorption
293 Kelvin Cross Sections

64-Gd-157



2

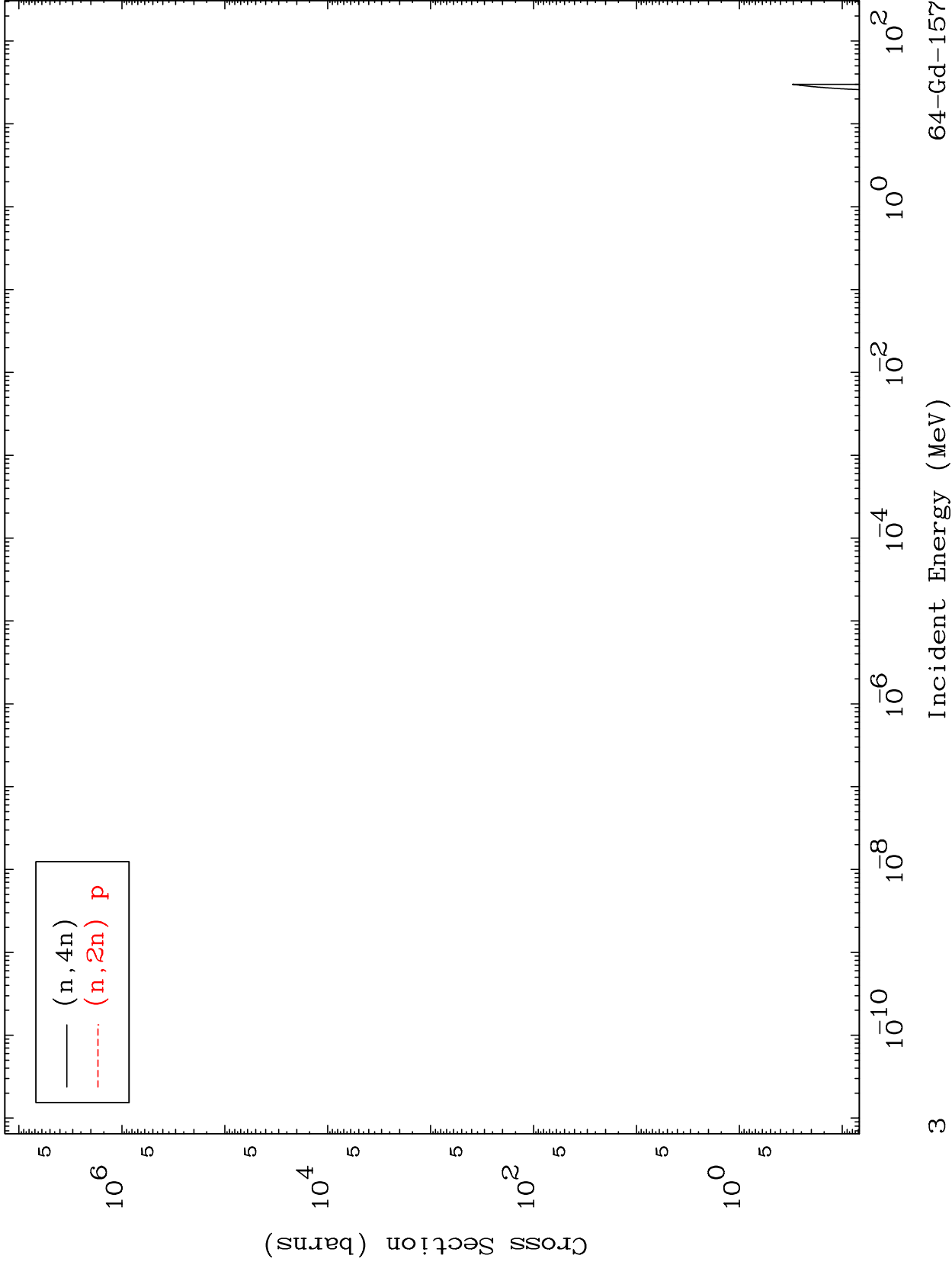
Incident Energy (MeV)

64-Gd-157

MAT 6440

Neutron Absorption
293 Kelvin Cross Sections

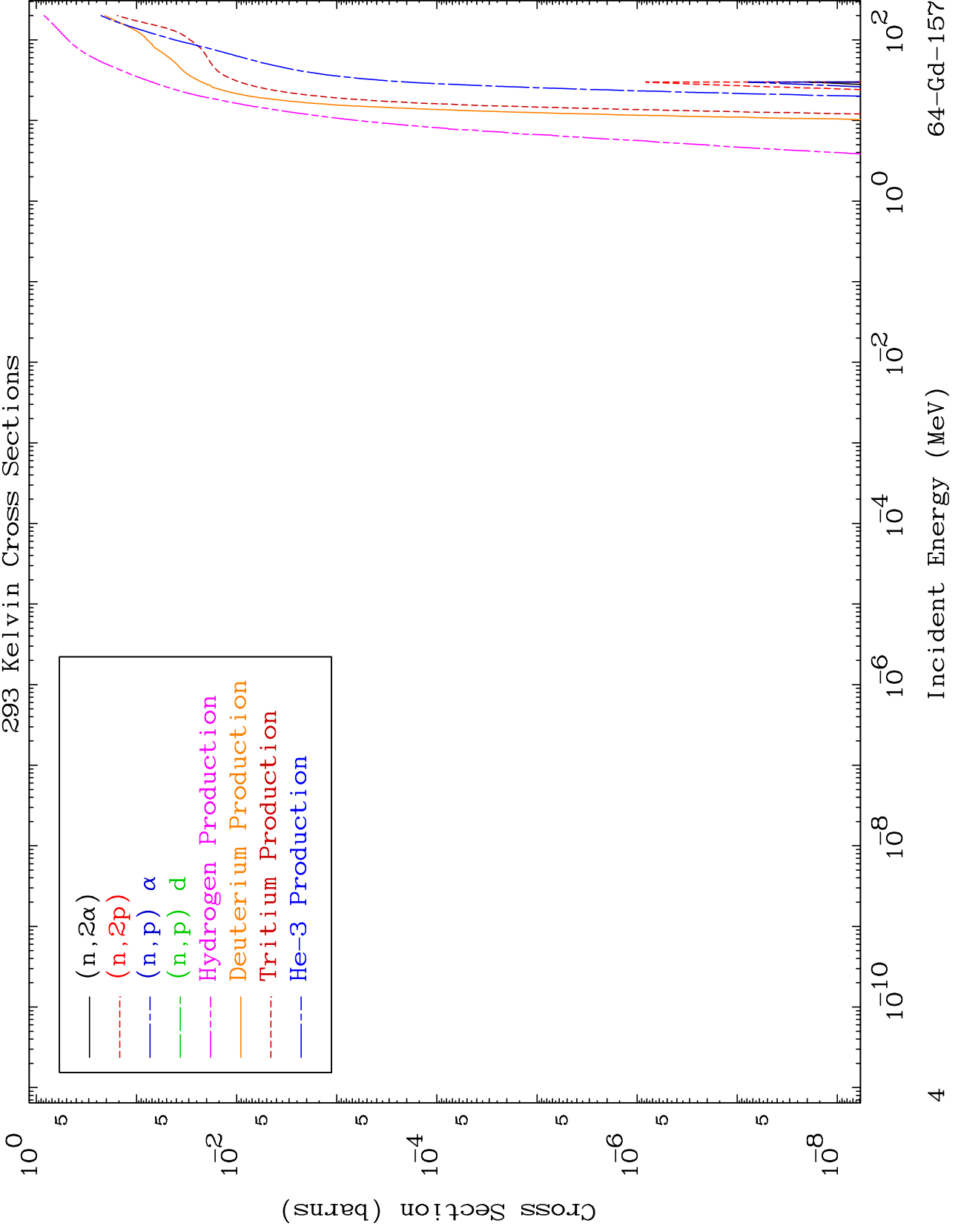
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MAT 6440

Neutron Absorption
293 Kelvin Cross Sections

64-Gd-157

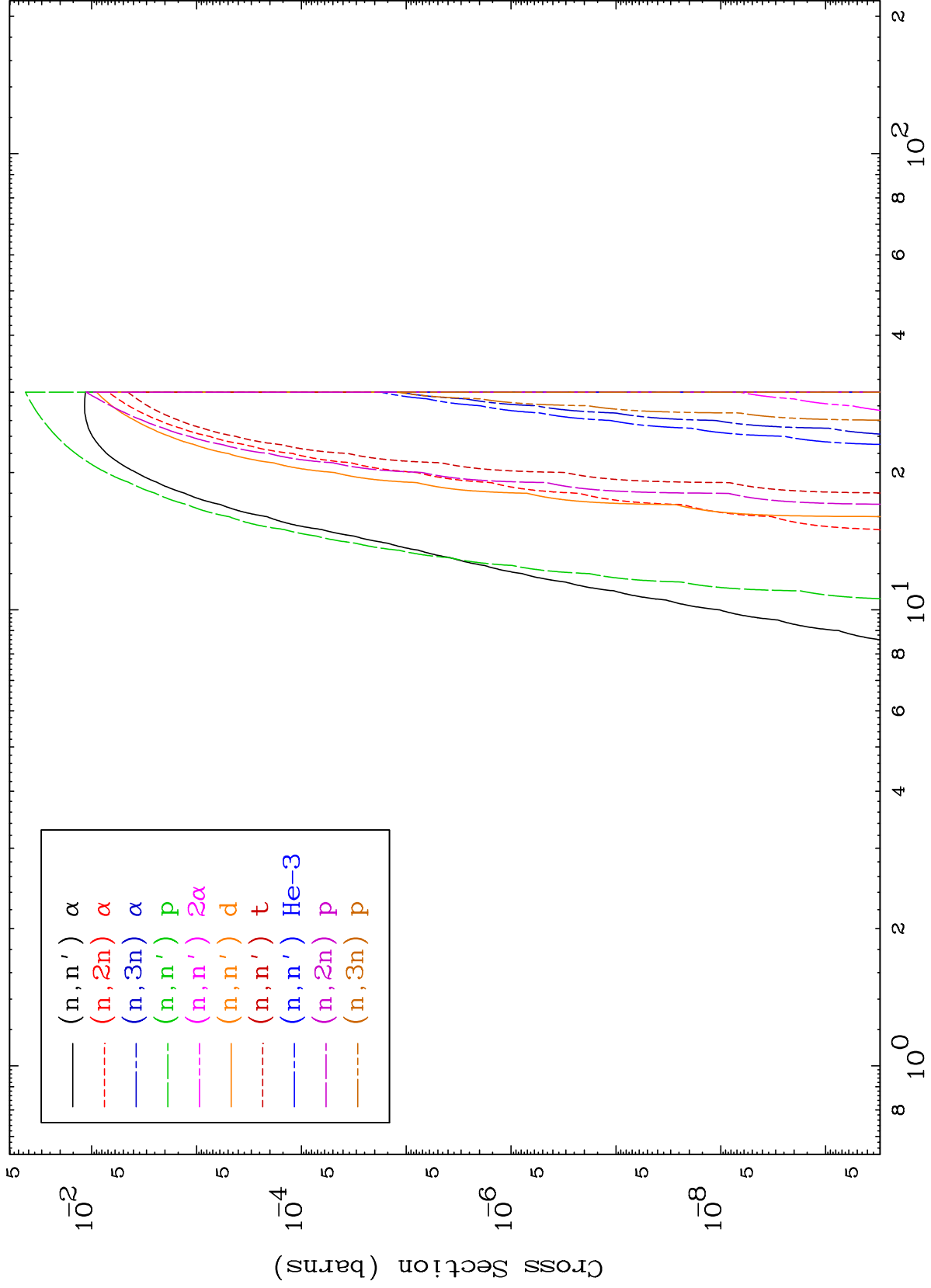


MAT 6440

Charged Particle

64-Gd-157

293 Kelvin Cross Sections



5

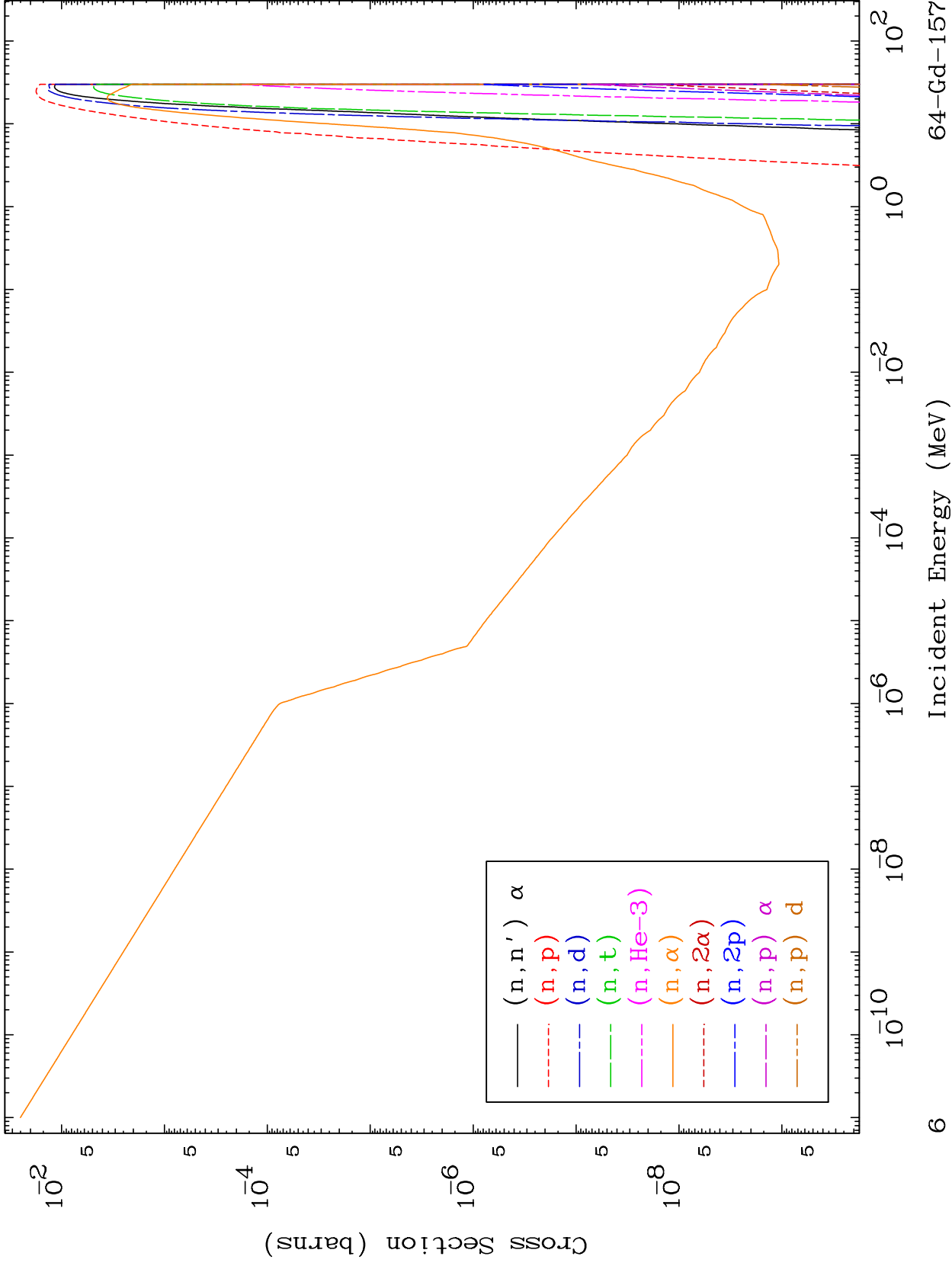
Incident Energy (MeV)

64-Gd-157

MAT 6440

Charged Particle
293 Kelvin Cross Sections

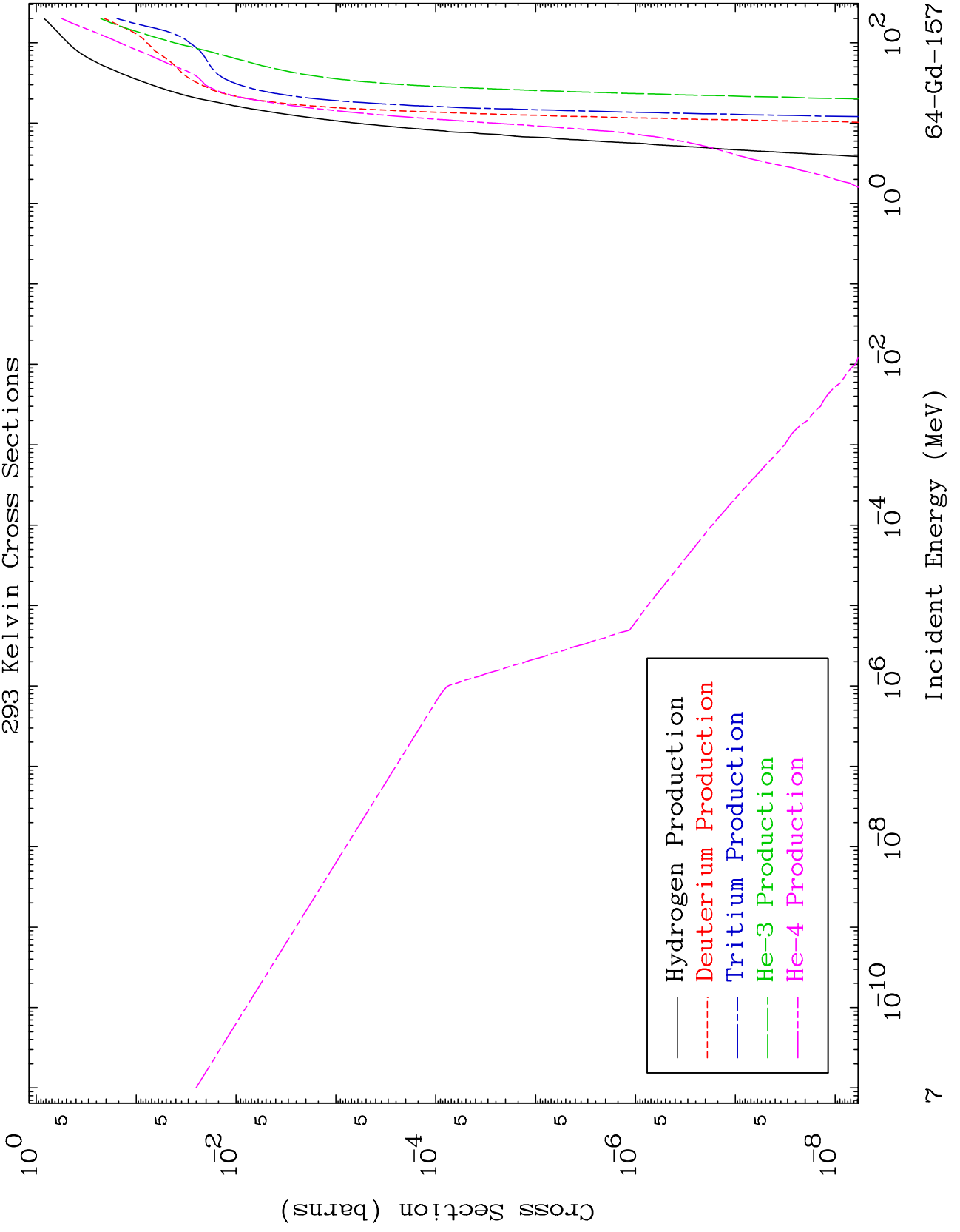
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MAT 6440

Particle Production
293 Kelvin Cross Sections

64-Gd-157

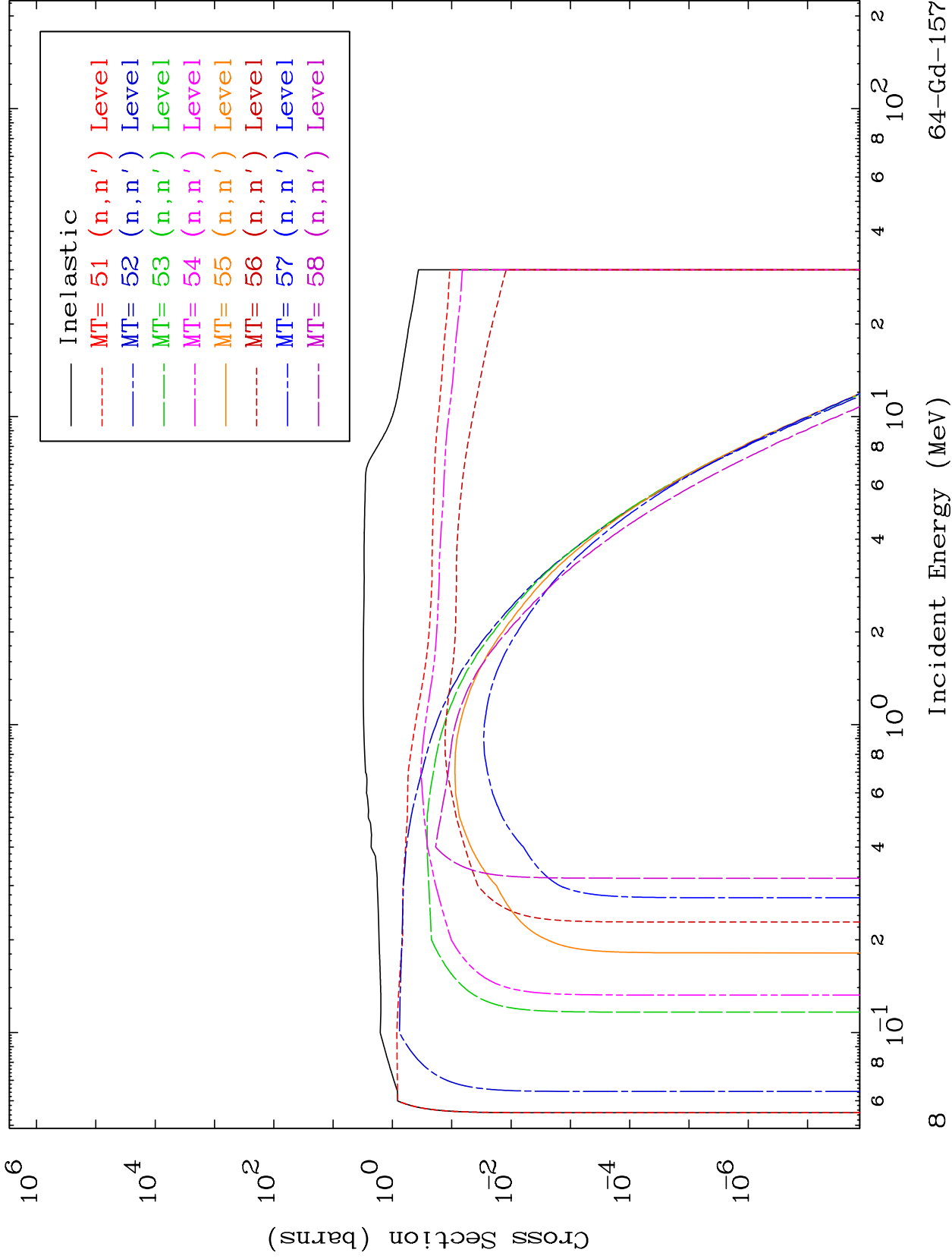


MAT 6440

(n,n') Levels

64-Gd-157

293 Kelvin Cross Sections



8

Incident Energy (MeV)

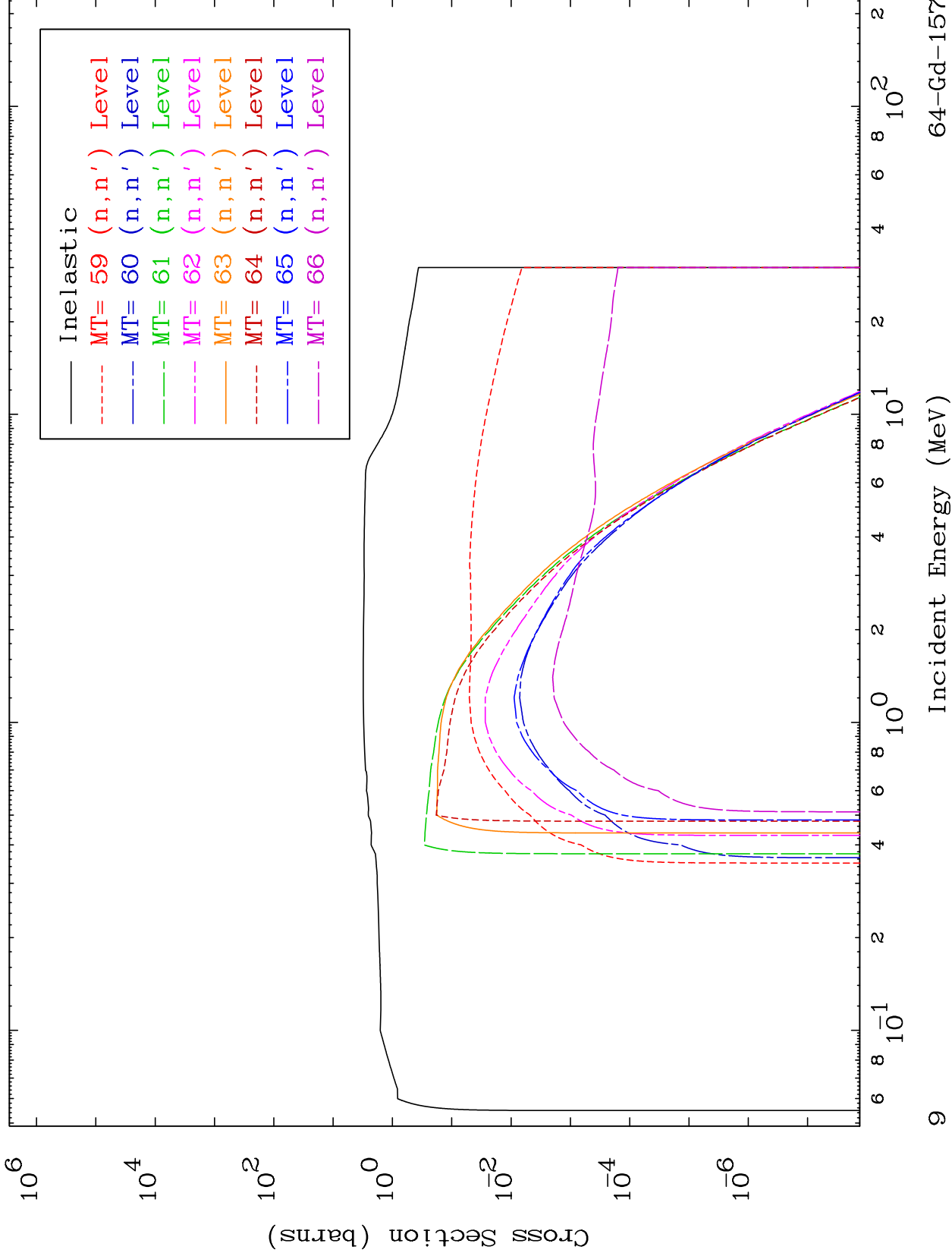
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MAT 6440

(n,n') Levels

64-Gd-157

293 Kelvin Cross Sections

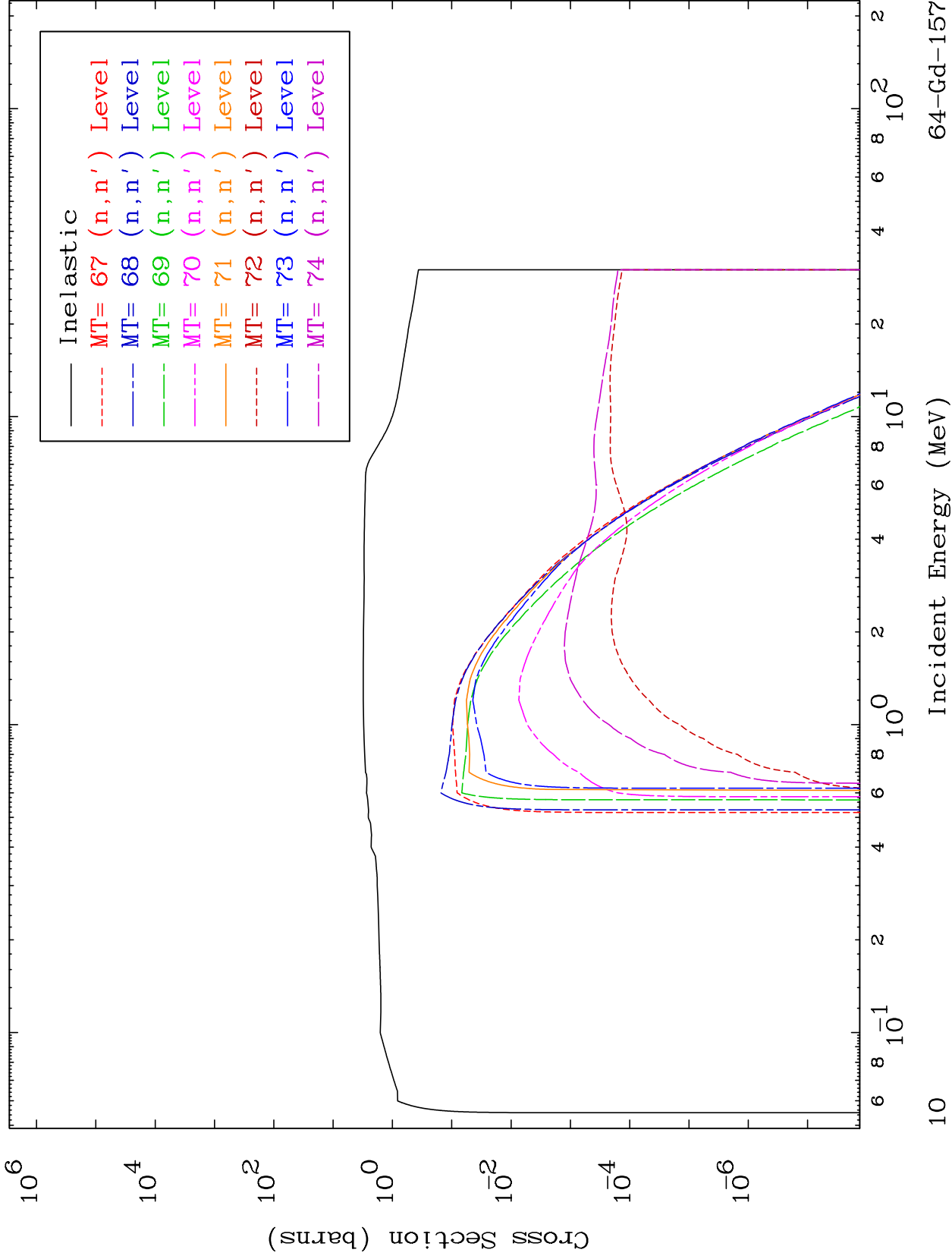


MAT 6440

(n,n') Levels

293 Kelvin Cross Sections

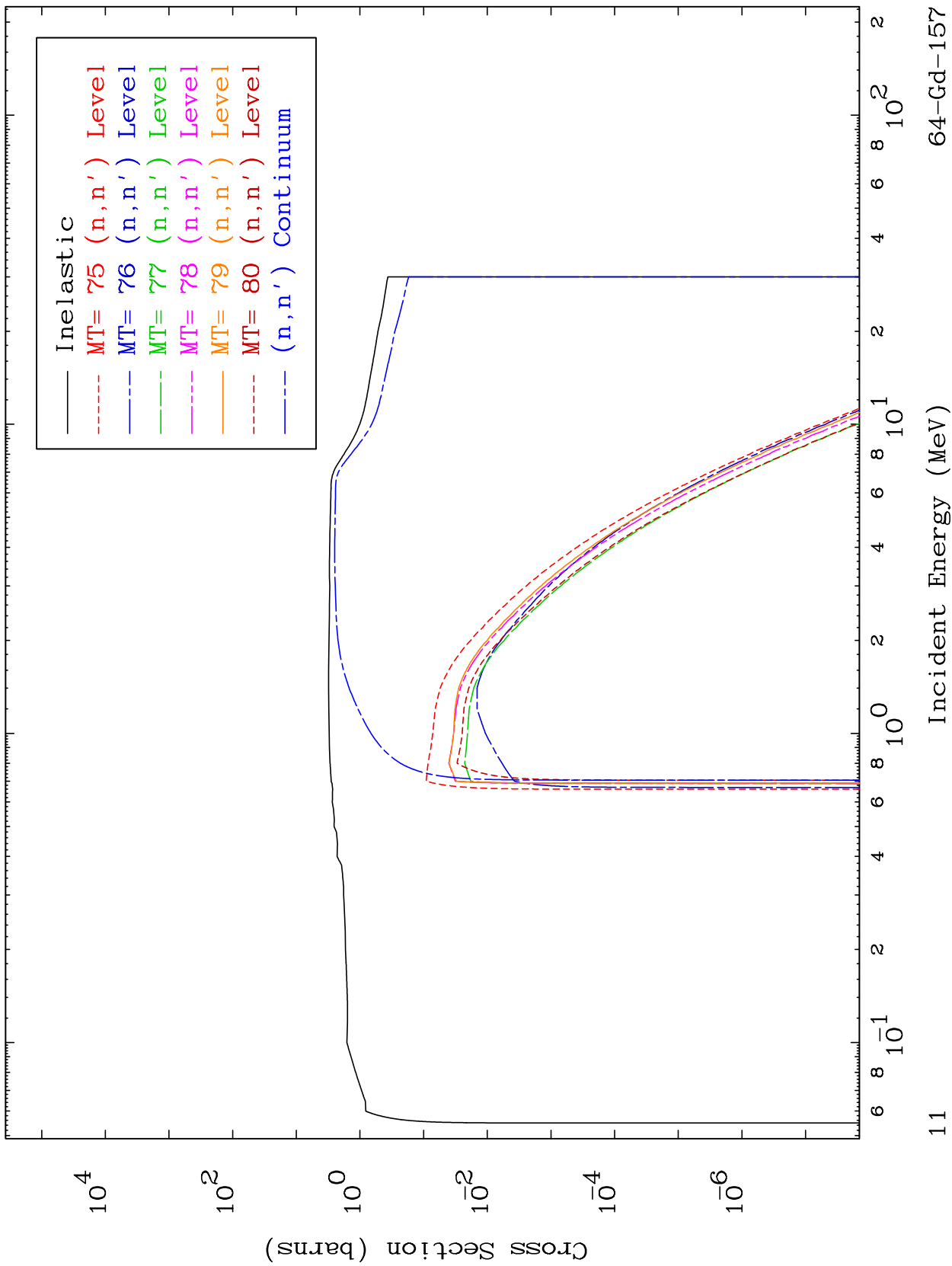
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10

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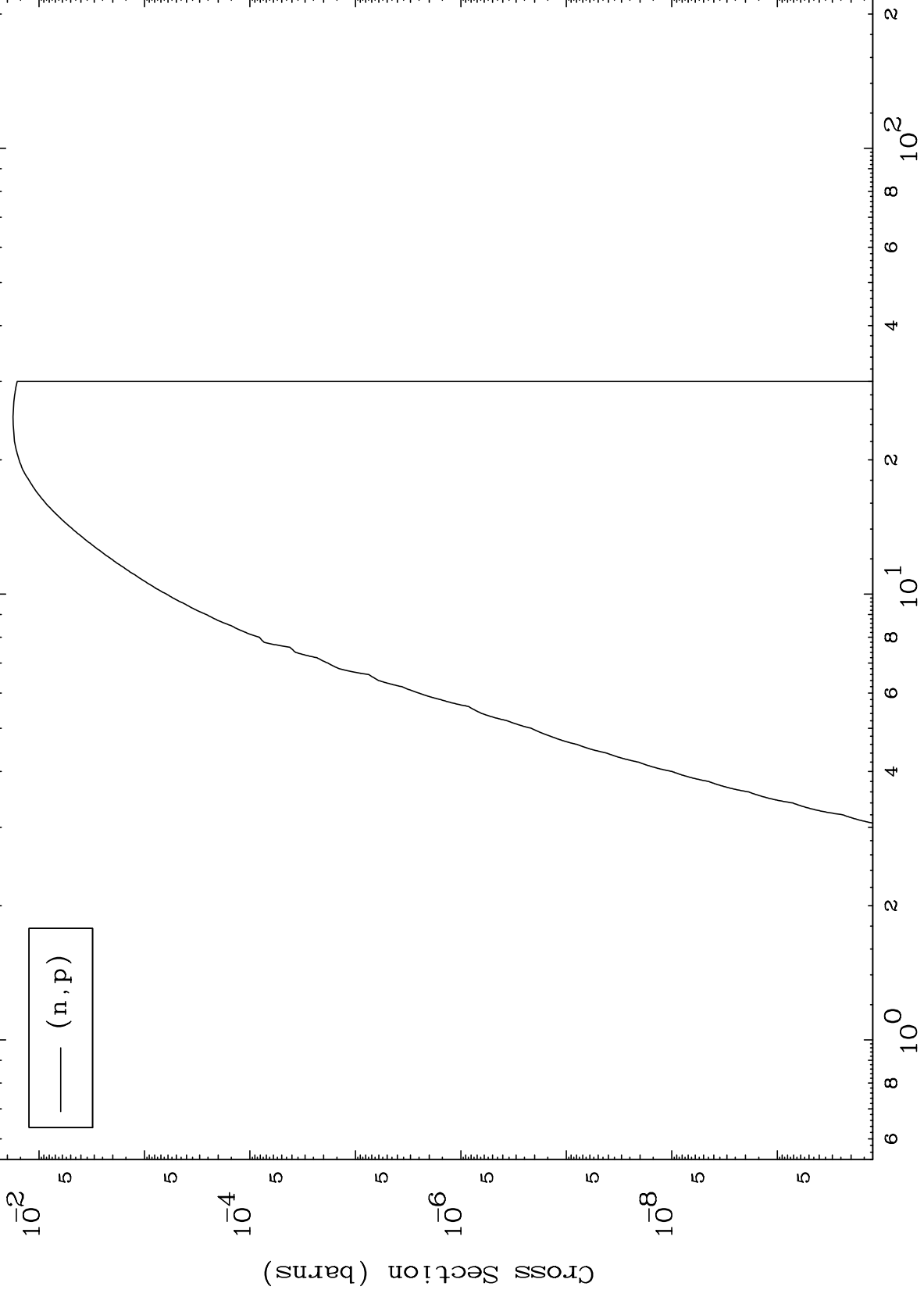
64-Gd-157



MAT 6440

(n,p) Levels
293 Kelvin Cross Sections

64-Gd-157



12

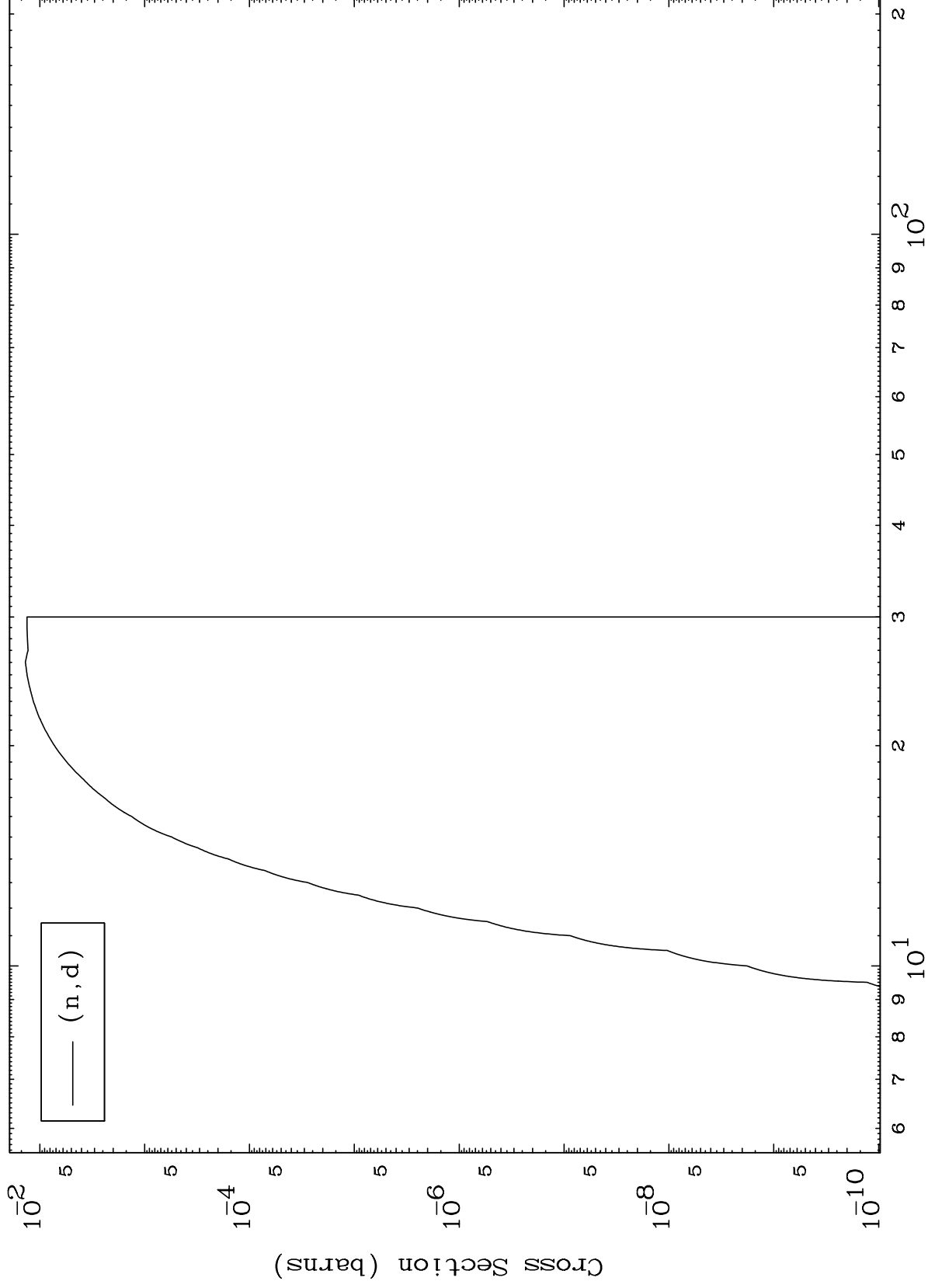
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64-Gd-157

MAT 6440

(n,d) Levels
293 Kelvin Cross Sections

64-Gd-157



13

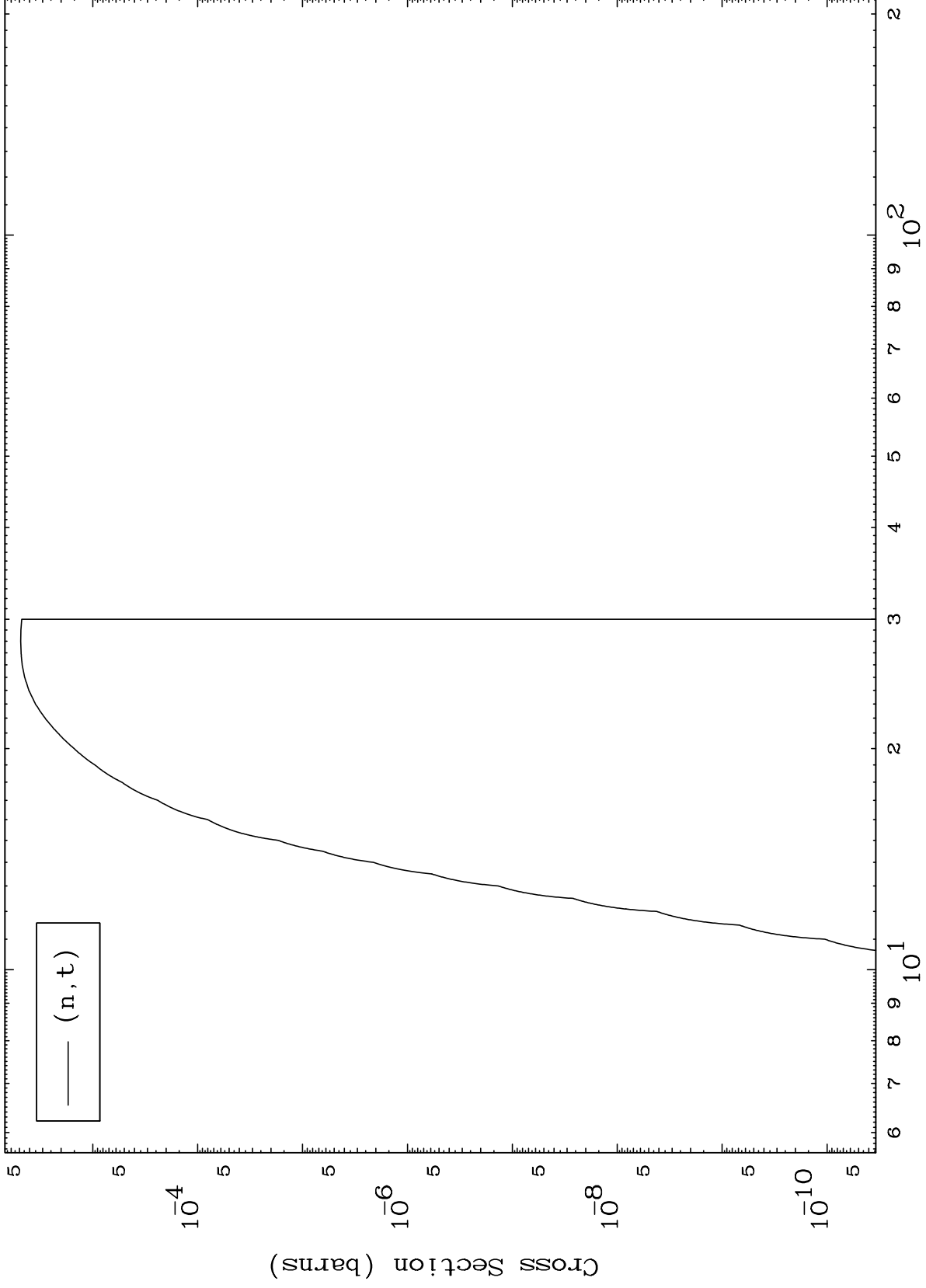
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64-Gd-157

MAT 6440

(n, t) Levels
293 Kelvin Cross Sections

64-Gd-157



14

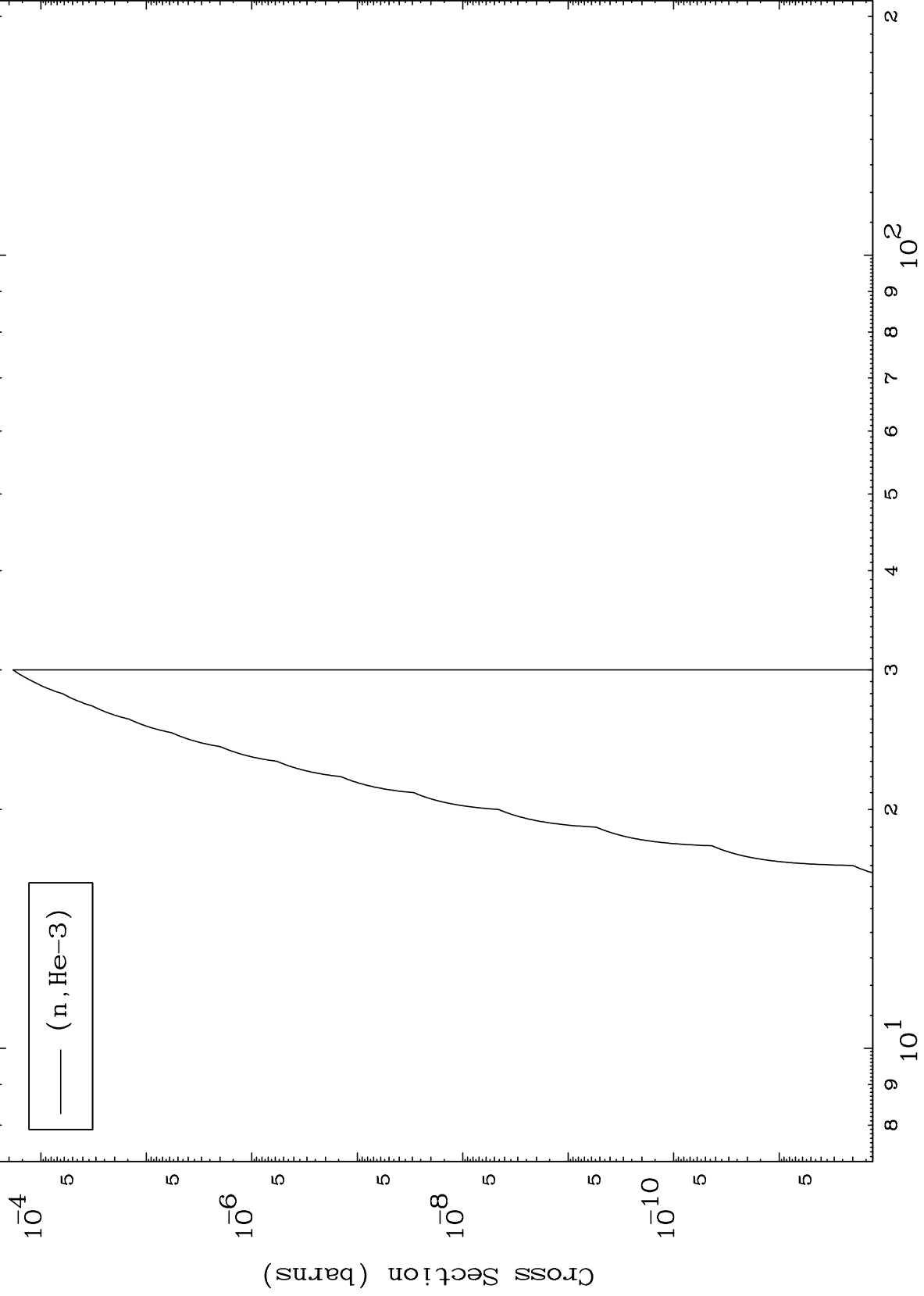
Incident Energy (MeV)

64-Gd-157

MAT 6440

(n,He3) Levels
293 Kelvin Cross Sections

64-Gd-157



15

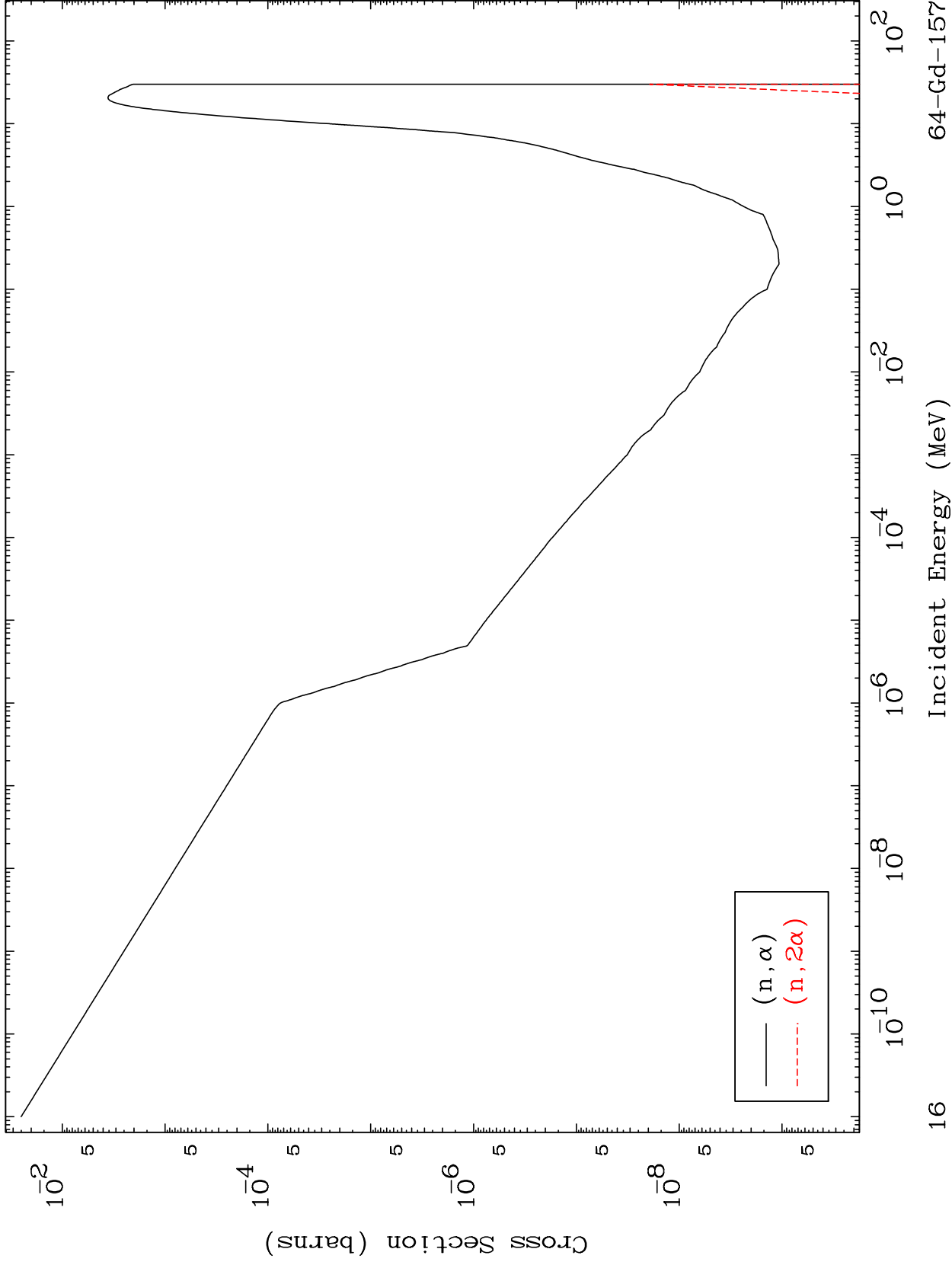
Incident Energy (MeV)

64-Gd-157

MAT 6440

(n, α) Levels
293 Kelvin Cross Sections

64-Gd-157

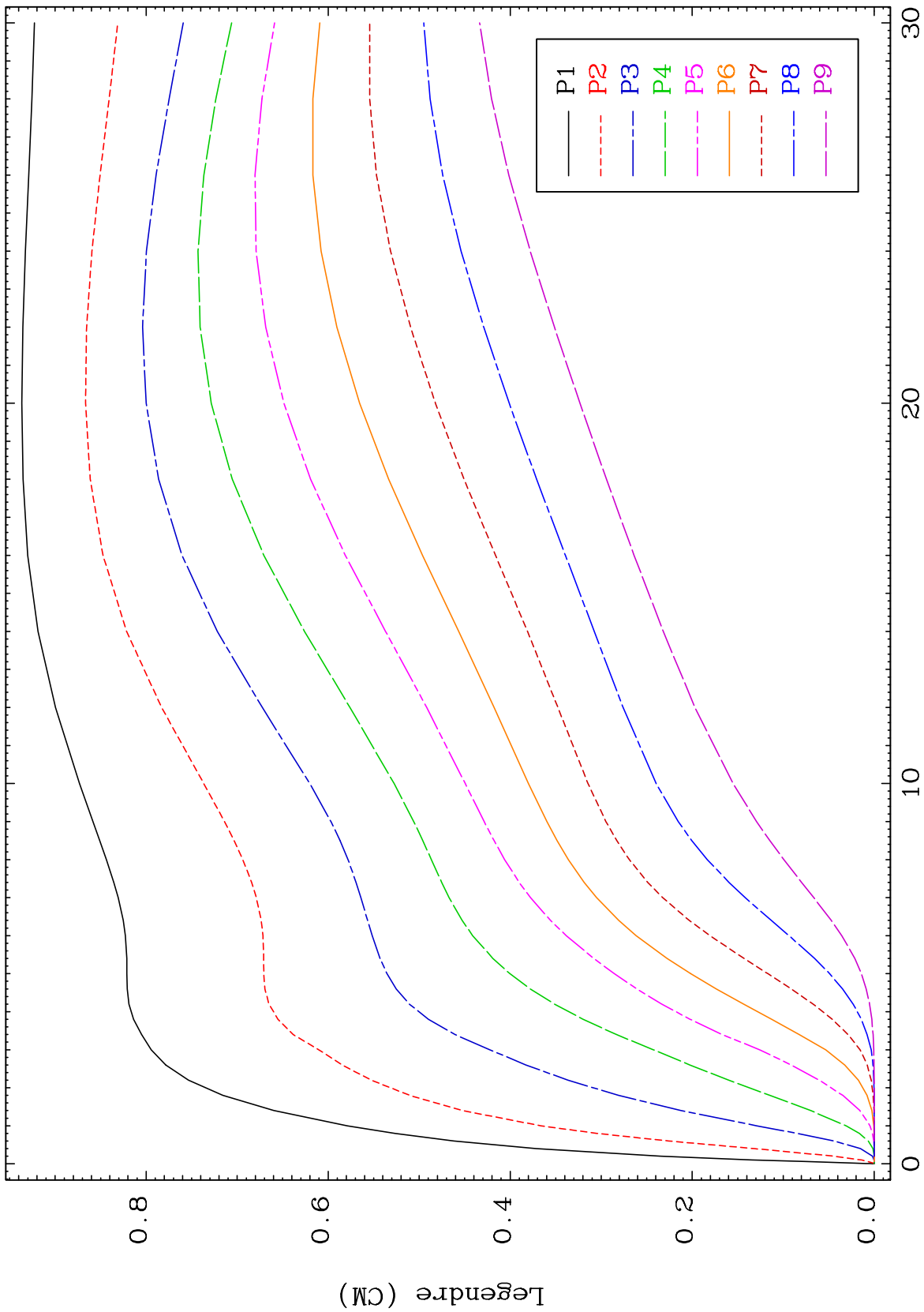


16

MAT 6440

Elastic Legendre Coefficients

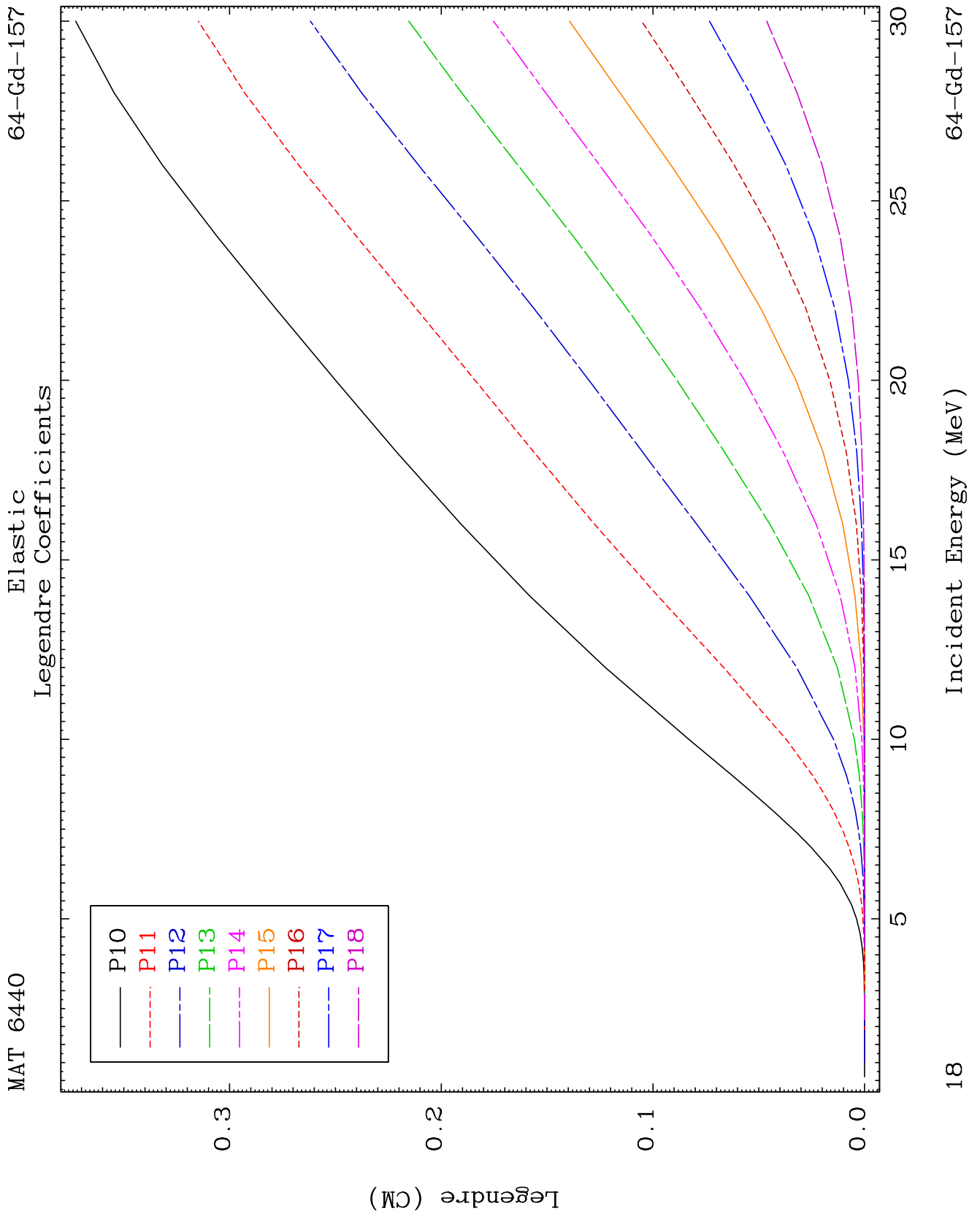
64-Gd-157



17

Incident Energy (MeV)

64-Gd-157



MAT 6440

64-Gd-157

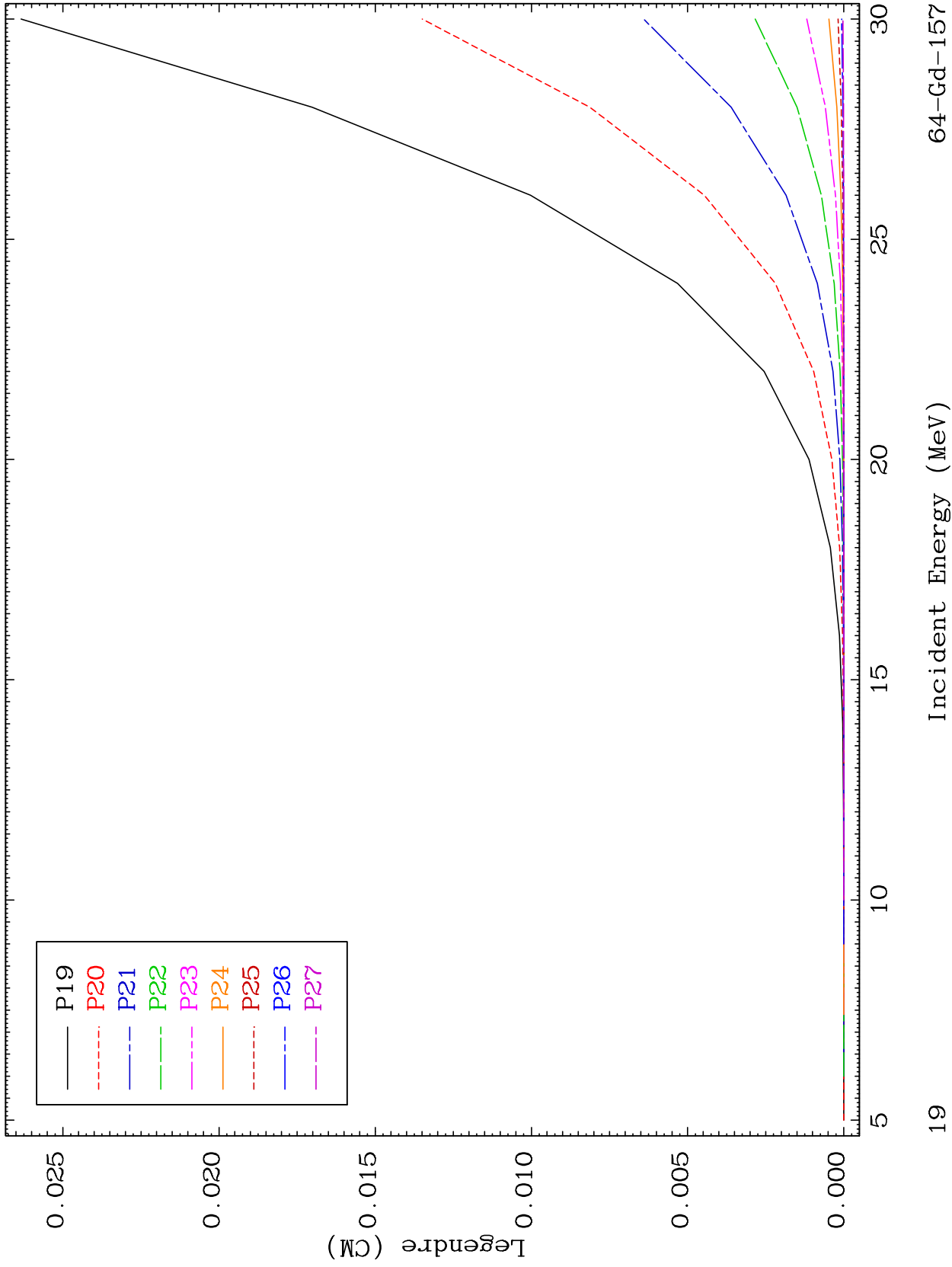
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64-Gd-157

MAT 6440

Elastic Legendre Coefficients

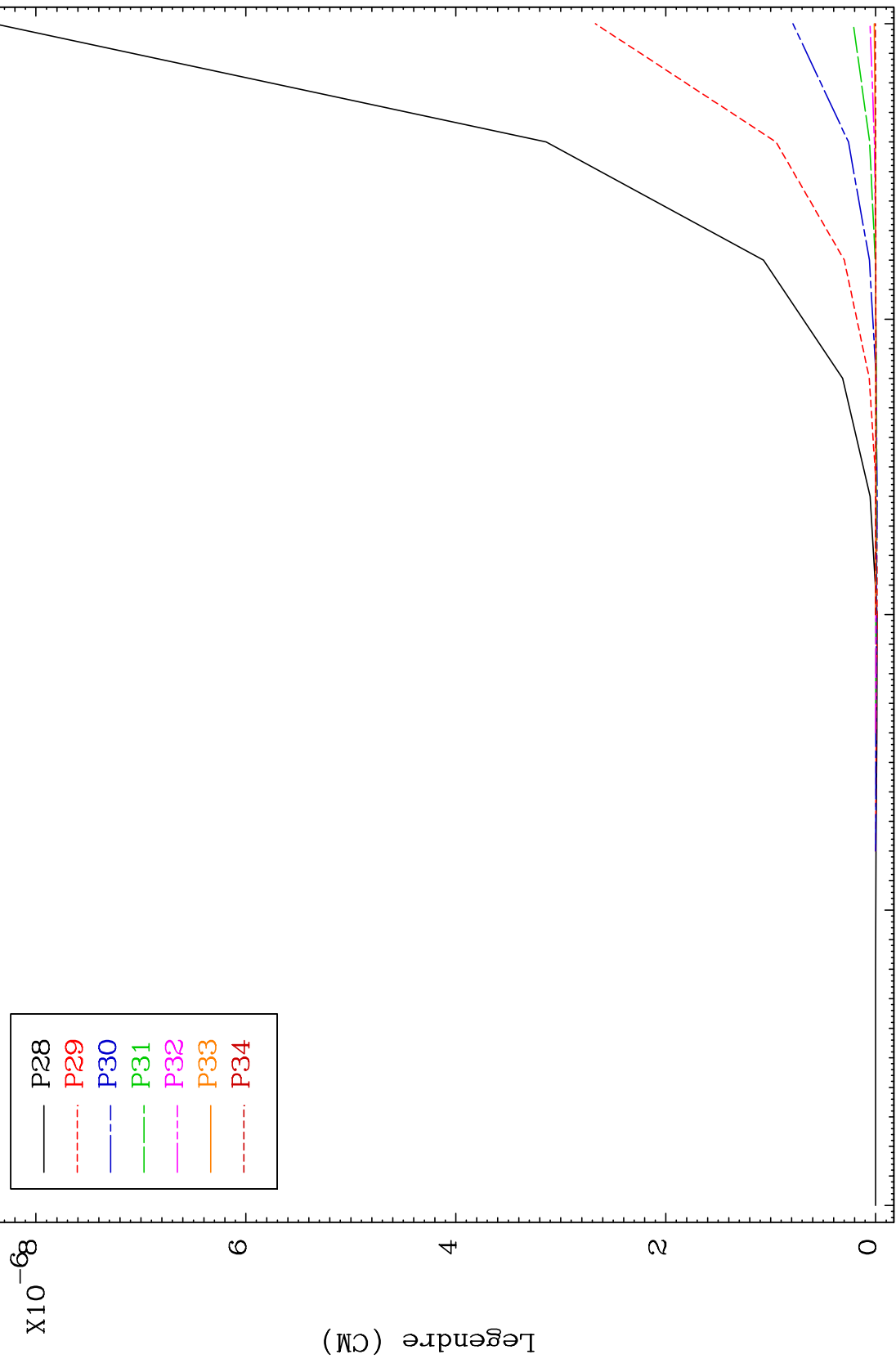
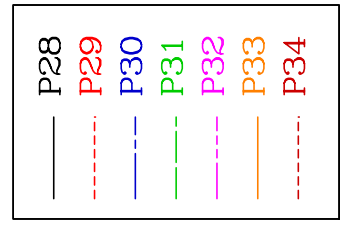
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MAT 6440

Elastic Legendre Coefficients

64-Gd-157



20

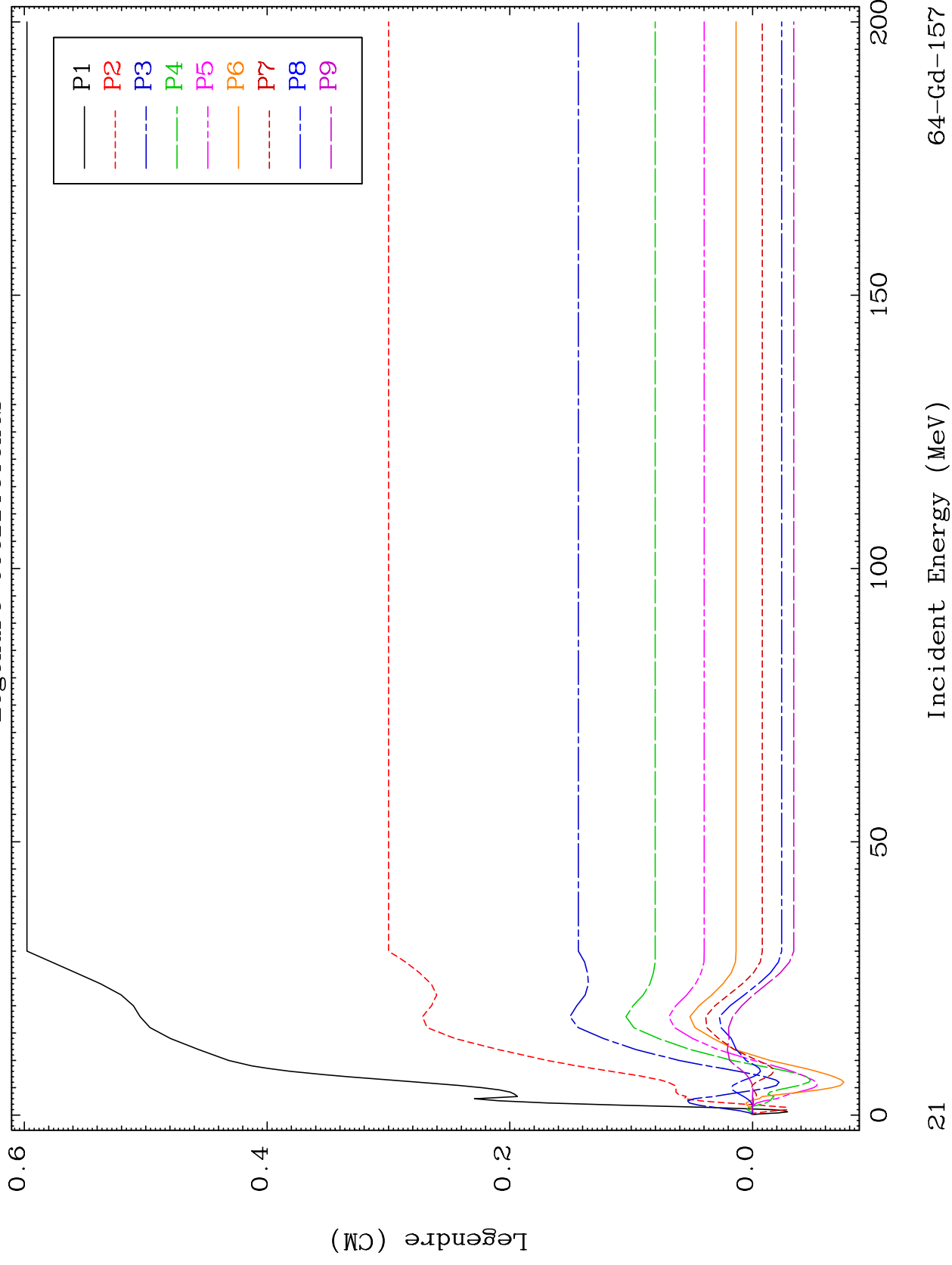
Incident Energy (MeV)

64-Gd-157

MAT 6440

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

64-Gd-157



64-Gd-157

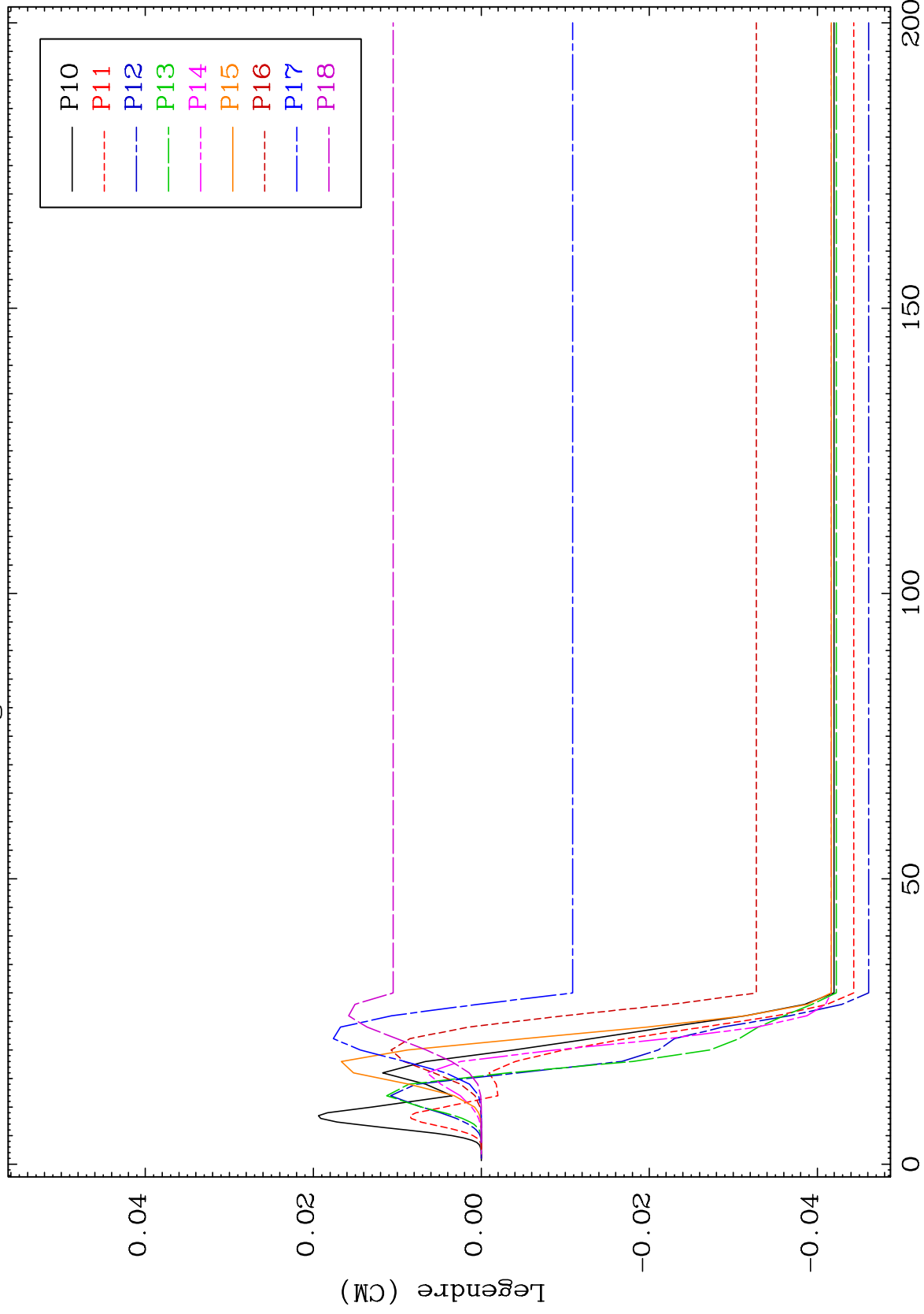
Incident Energy (MeV)

21

MAT 6440

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

64-Gd-157



22

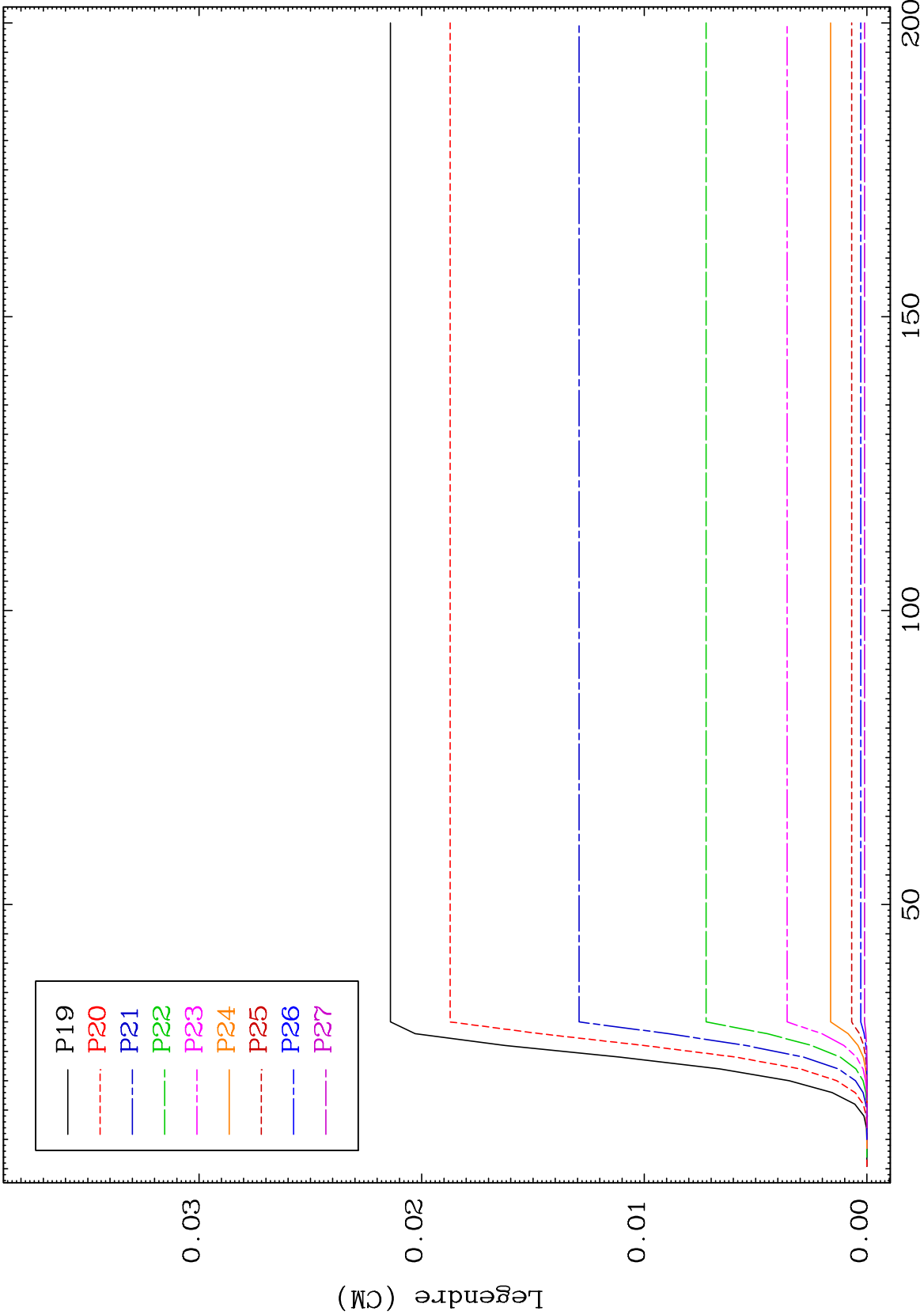
Incident Energy (MeV)

64-Gd-157

MAT 6440

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

64-Gd-157



23

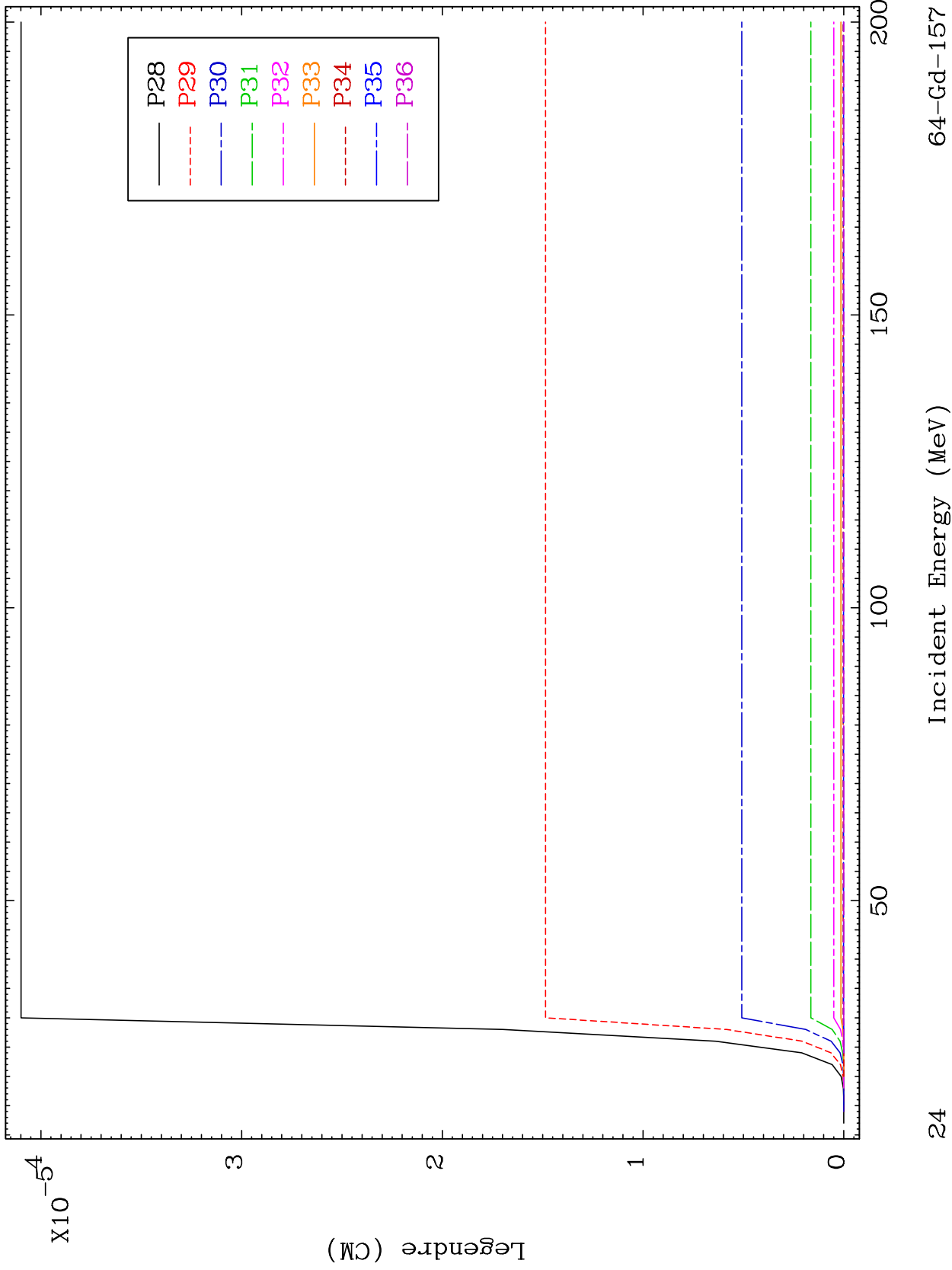
Incident Energy (MeV)

64-Gd-157

MAT 6440

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

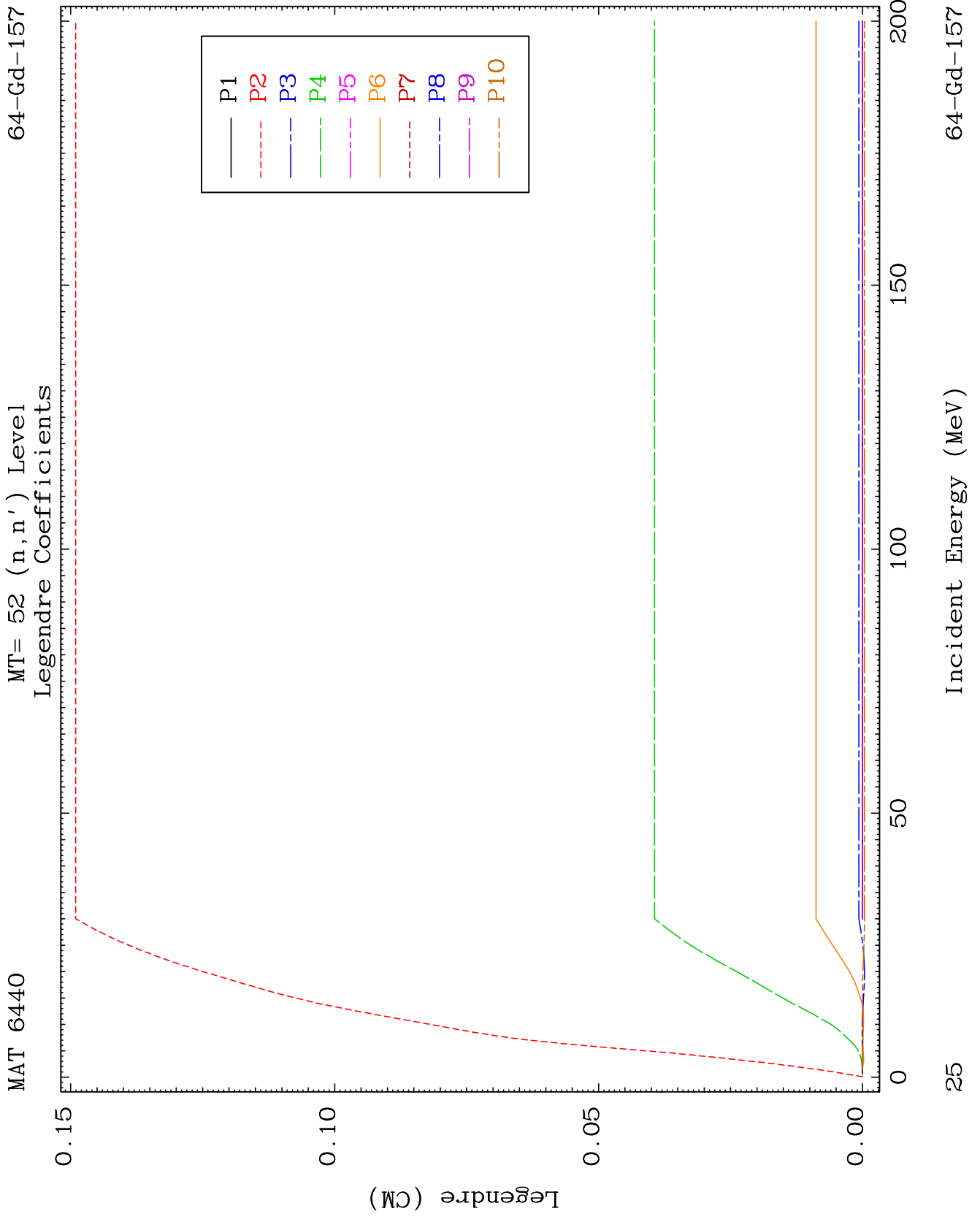
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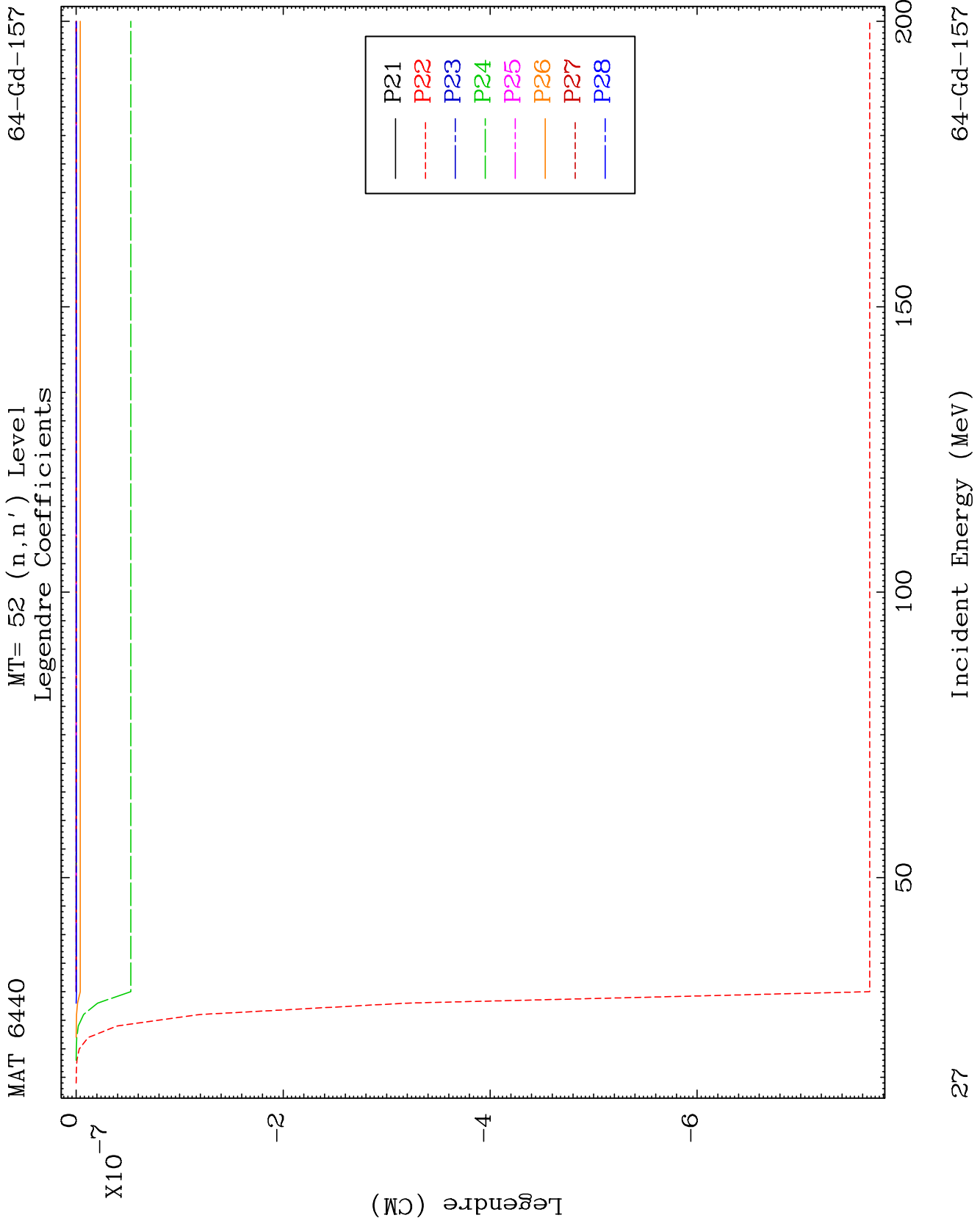


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Incident Energy (MeV)

64-Gd-157

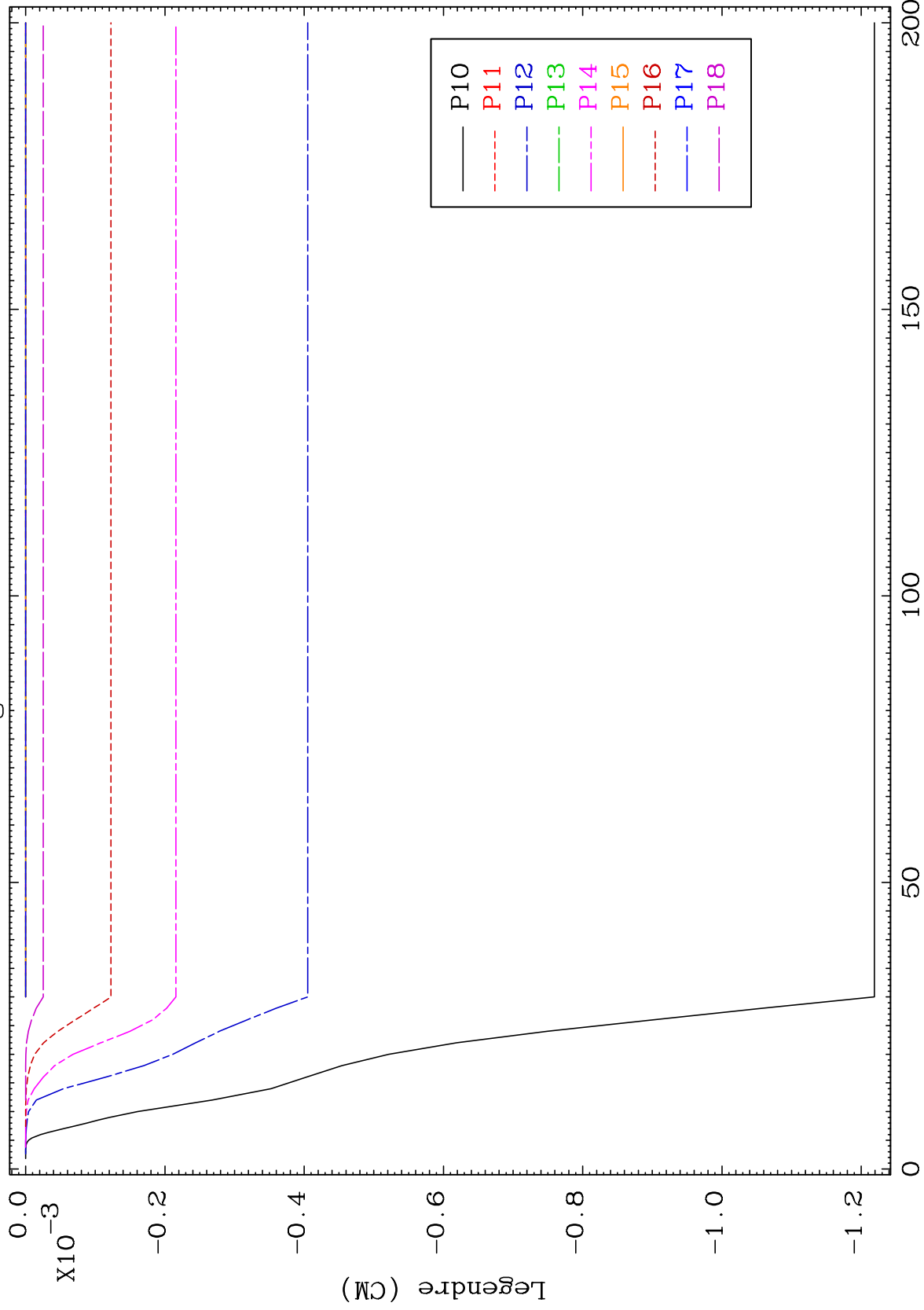




MAT 6440

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

64-Gd-157



29

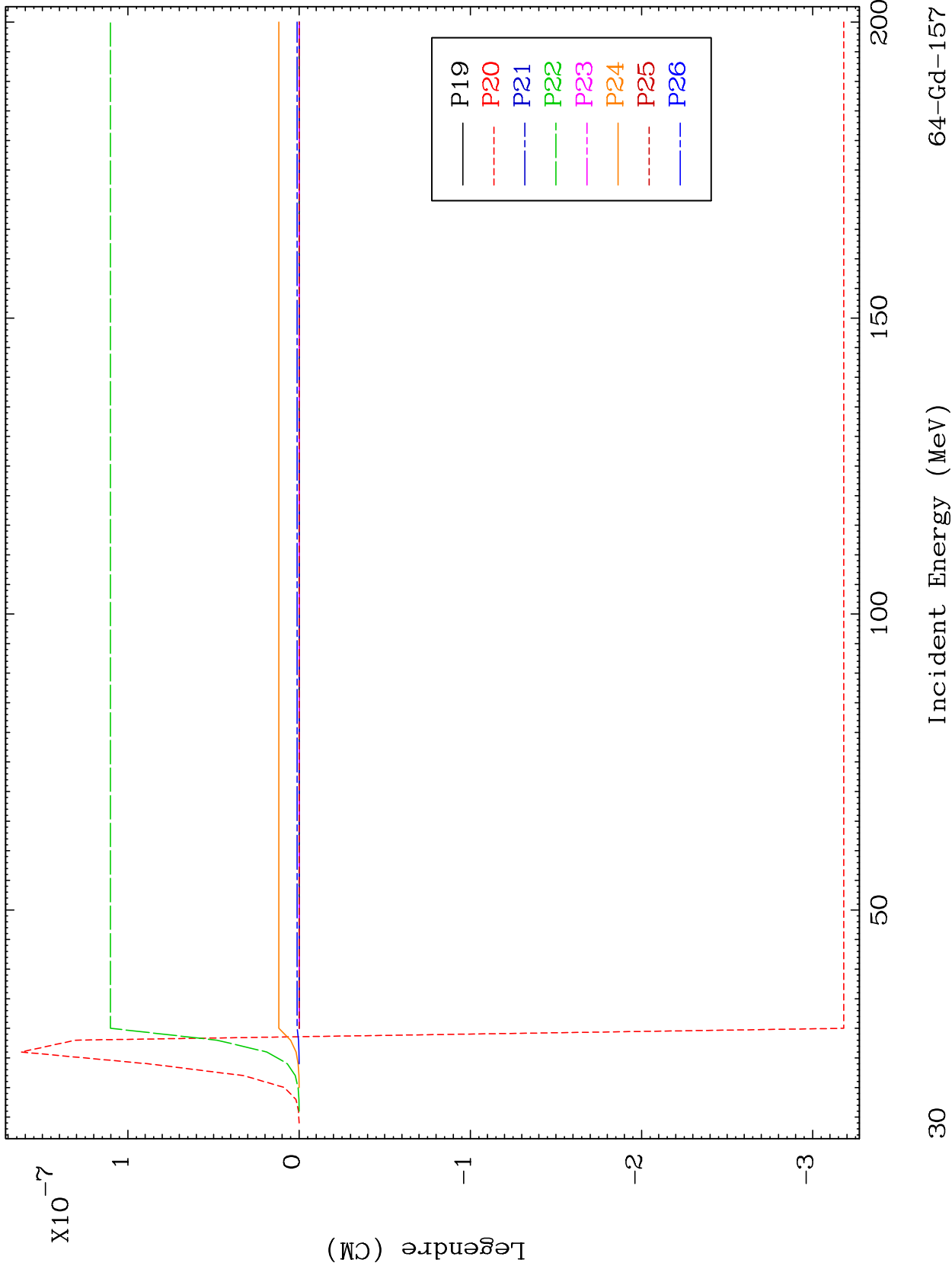
Incident Energy (MeV)

64-Gd-157

MAT 6440

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

64-Gd-157



64-Gd-157

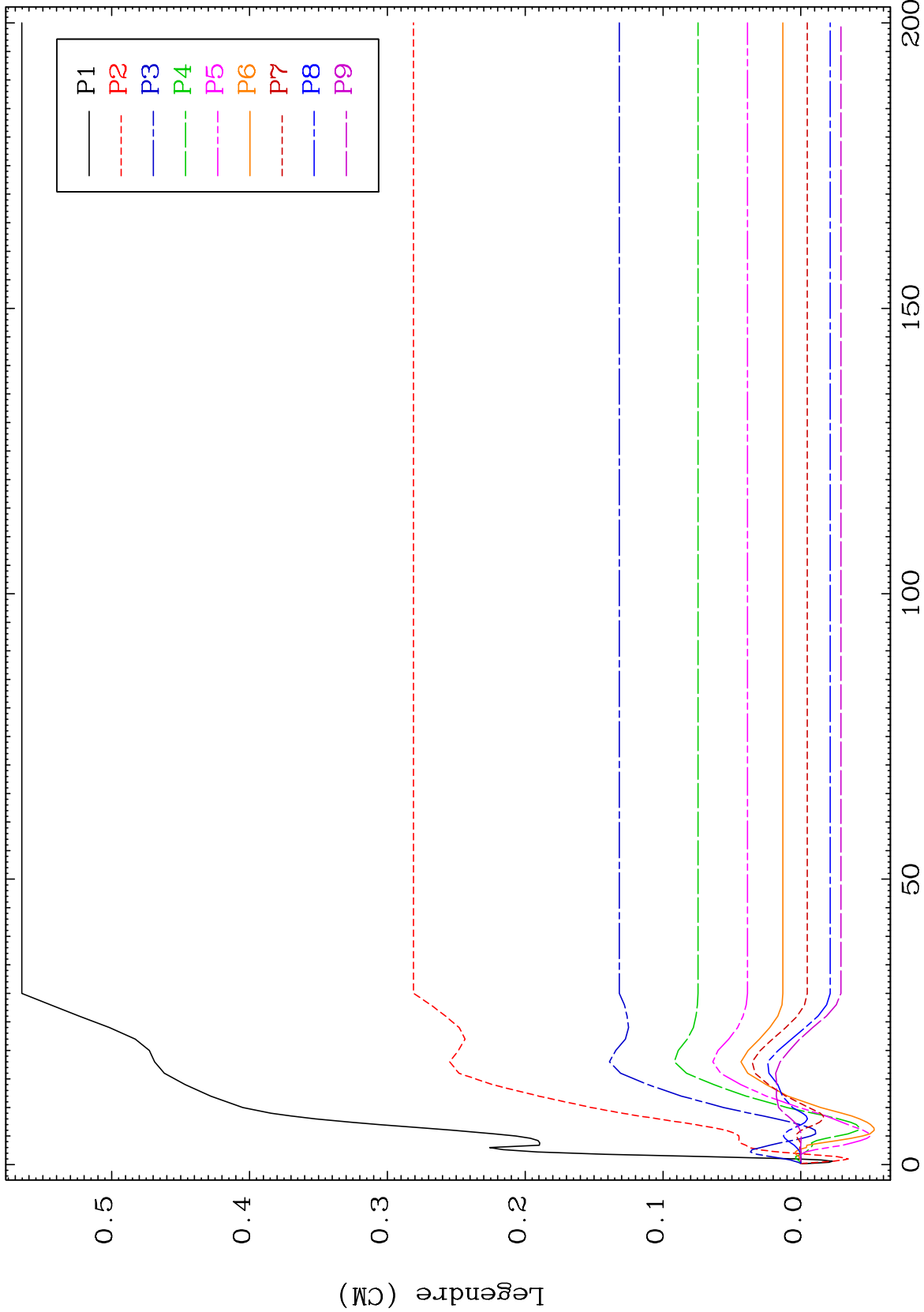
Incident Energy (MeV)

30

MAT 6440

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

64-Gd-157



31

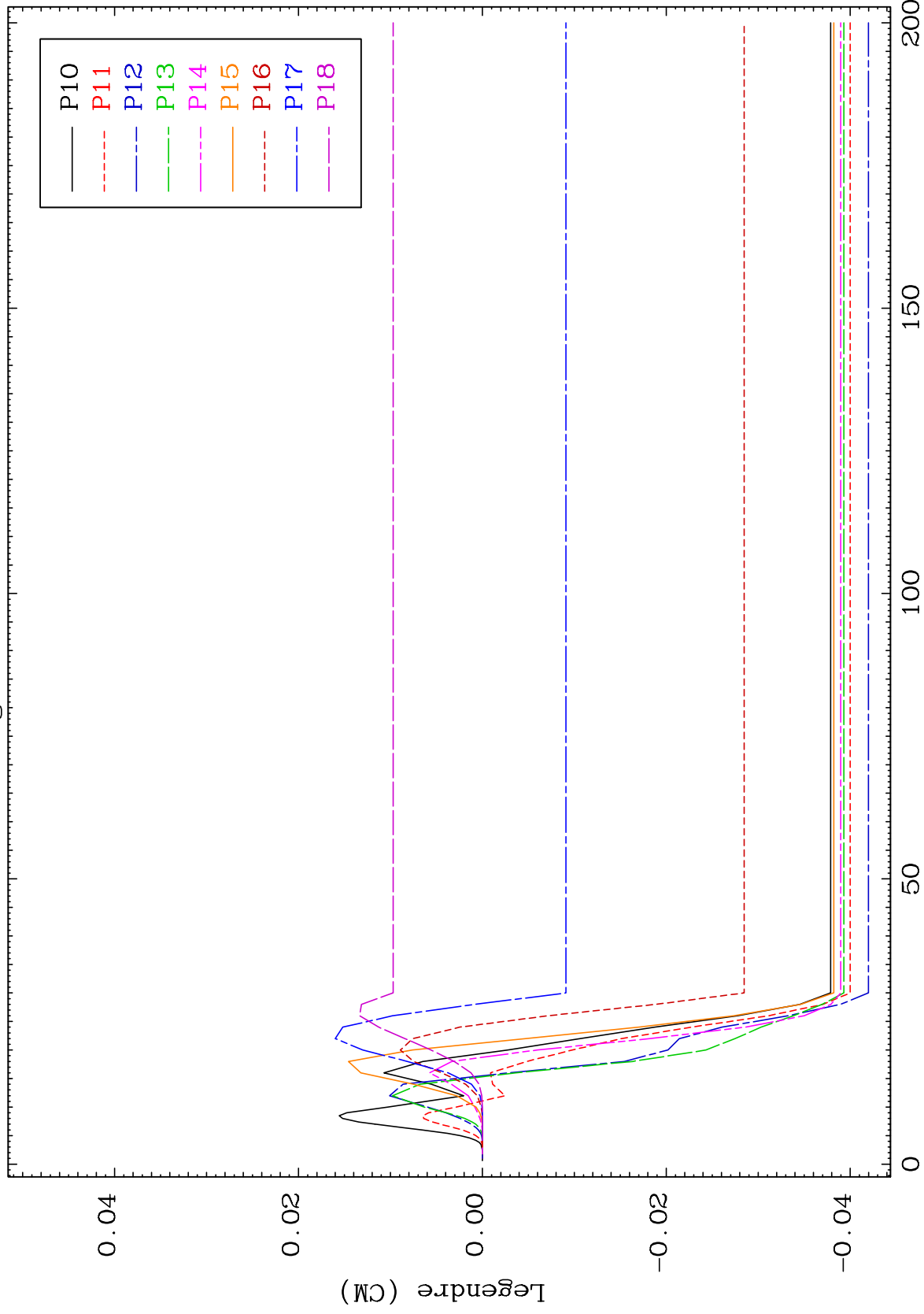
Incident Energy (MeV)

64-Gd-157

MAT 6440

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

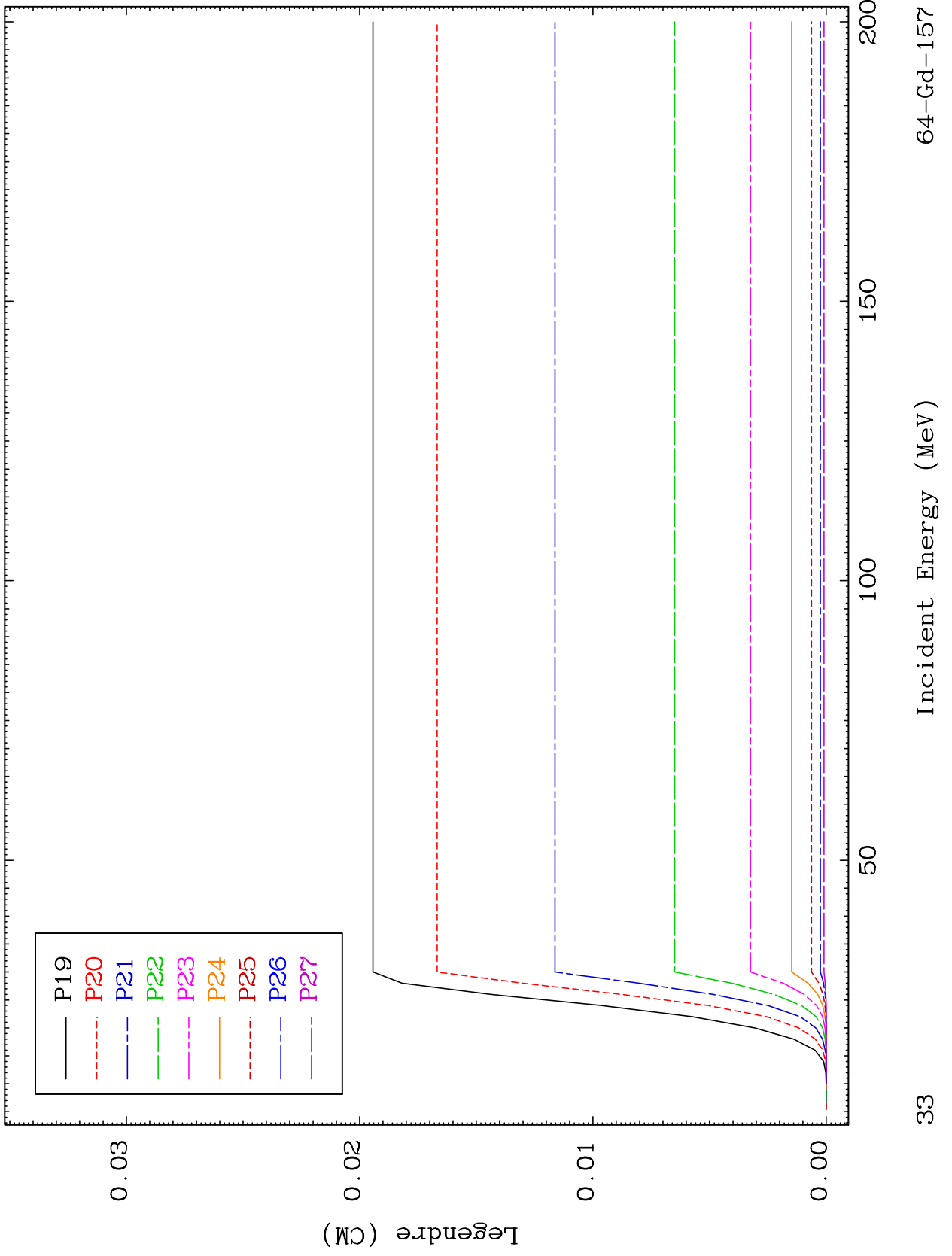
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Incident Energy (MeV)

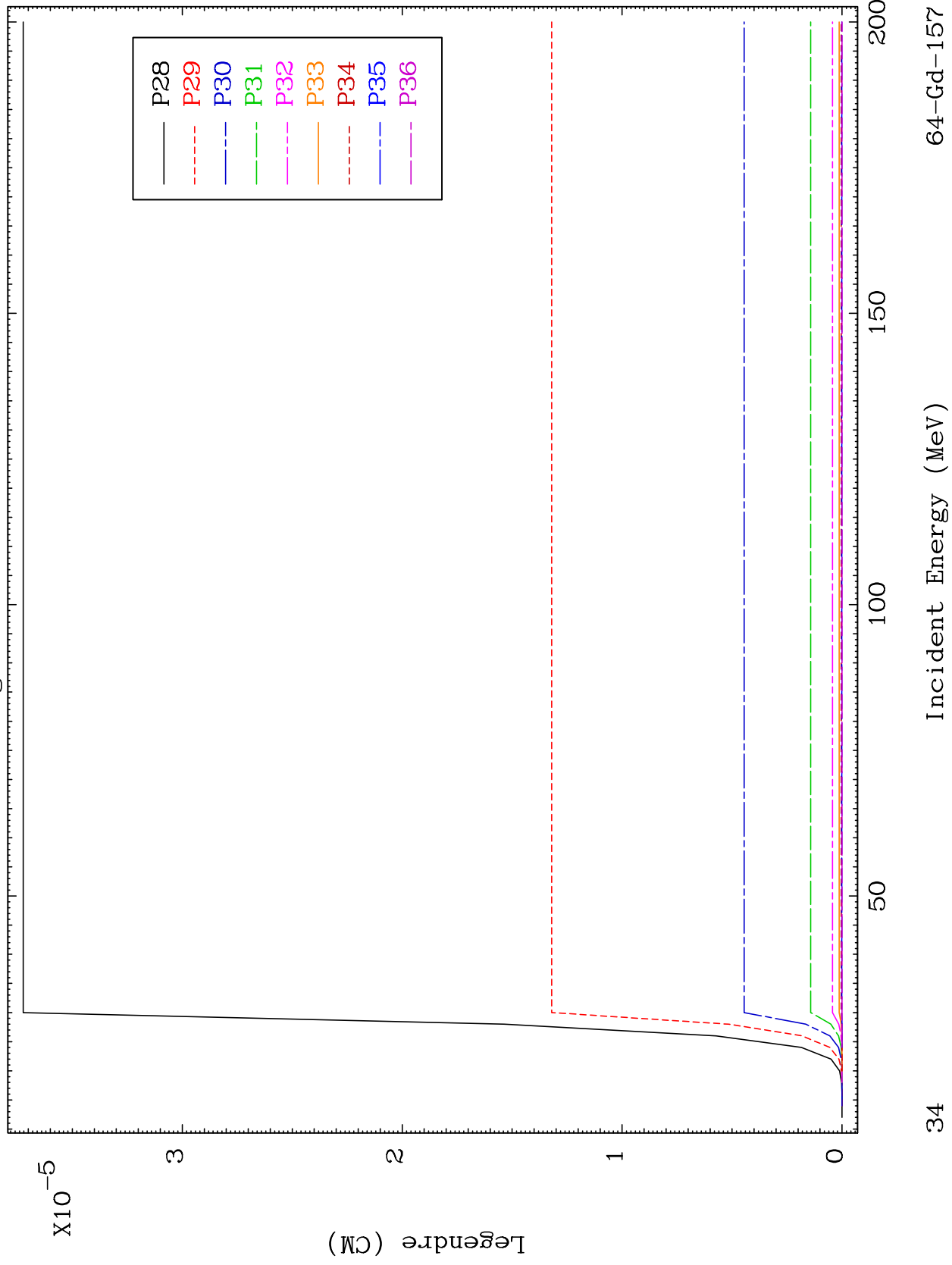
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MAT 6440

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

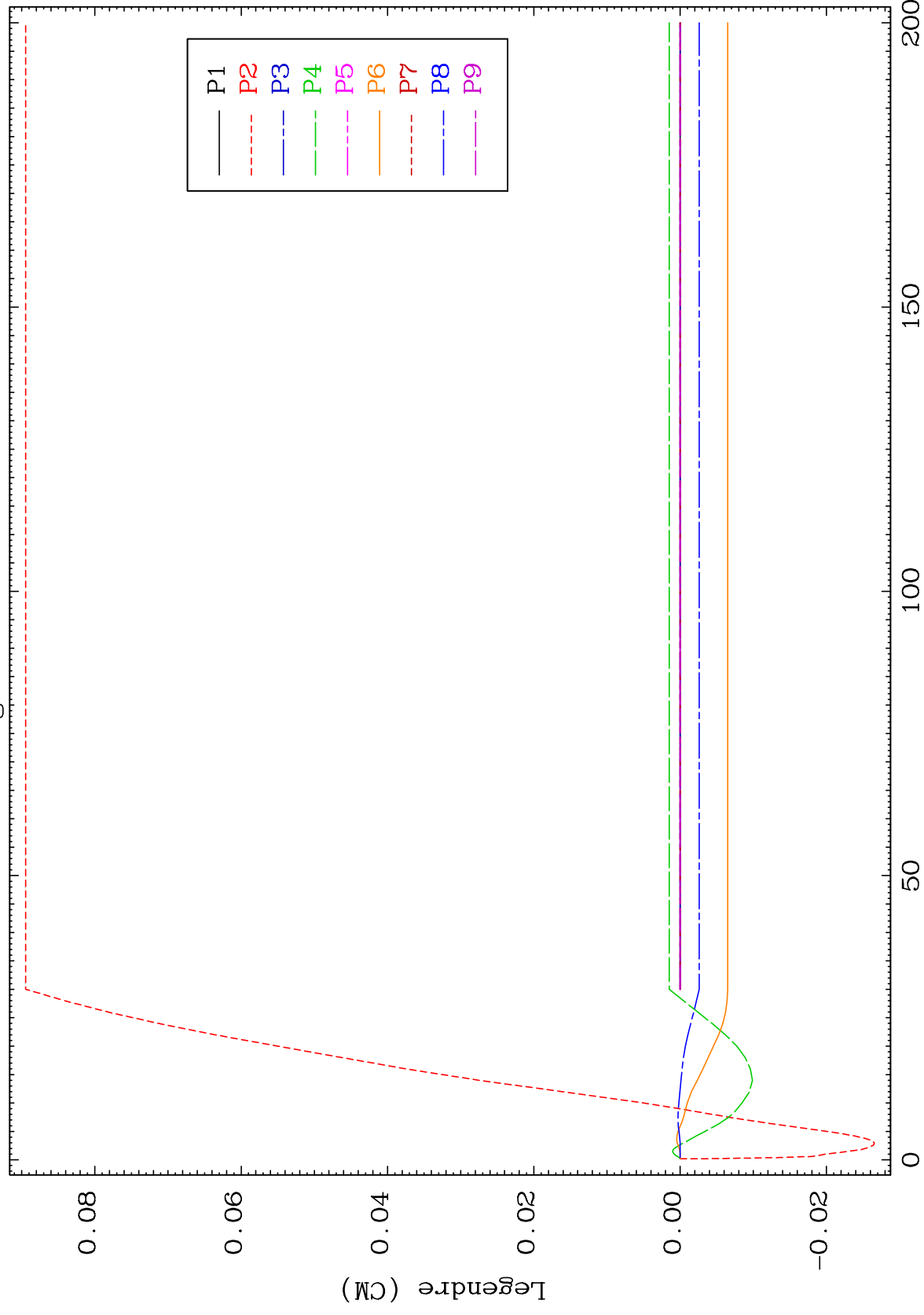
64-Gd-157



MAT 6440

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

64-Gd-157



64-Gd-157

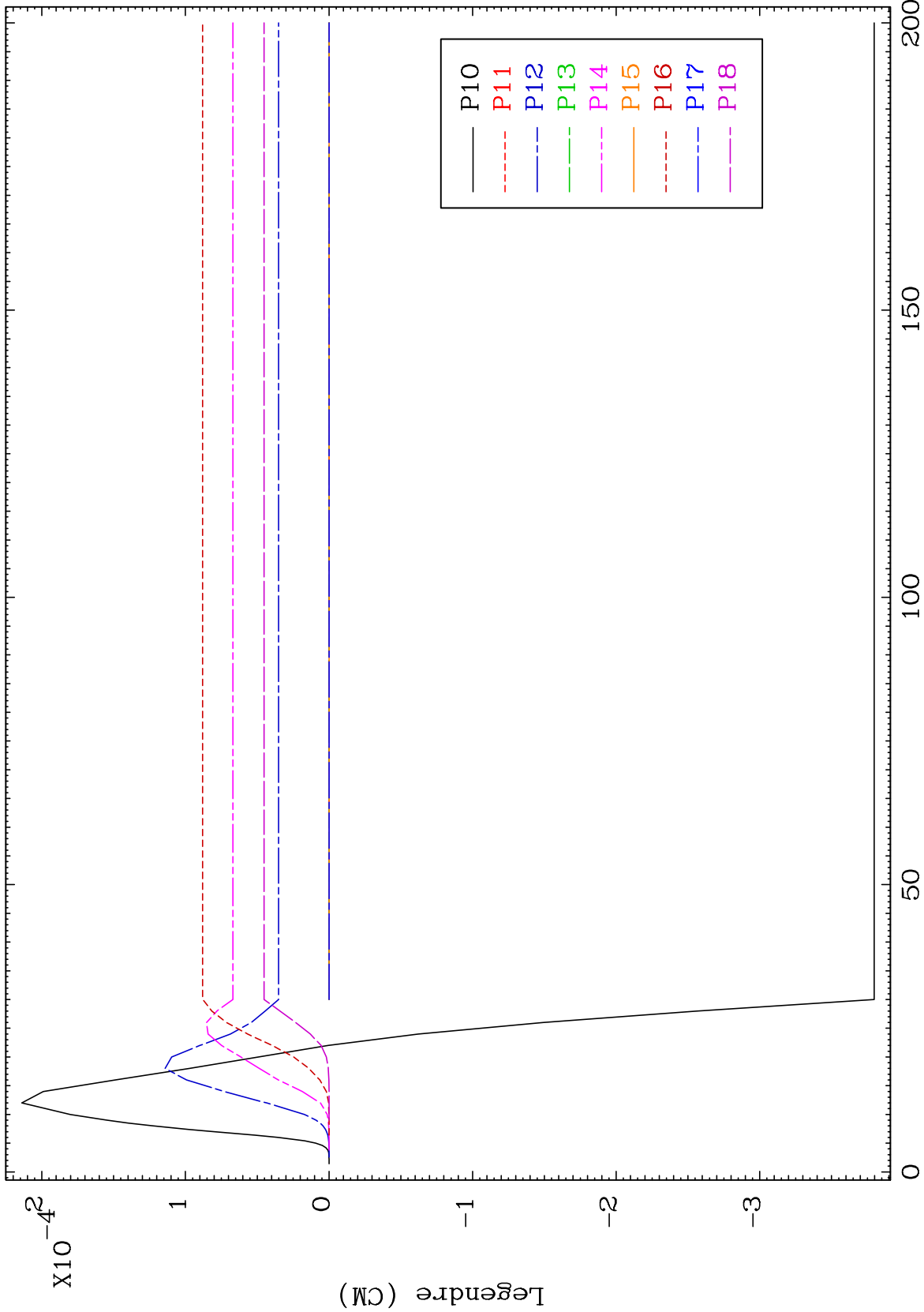
Incident Energy (MeV)

35

MAT 6440

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

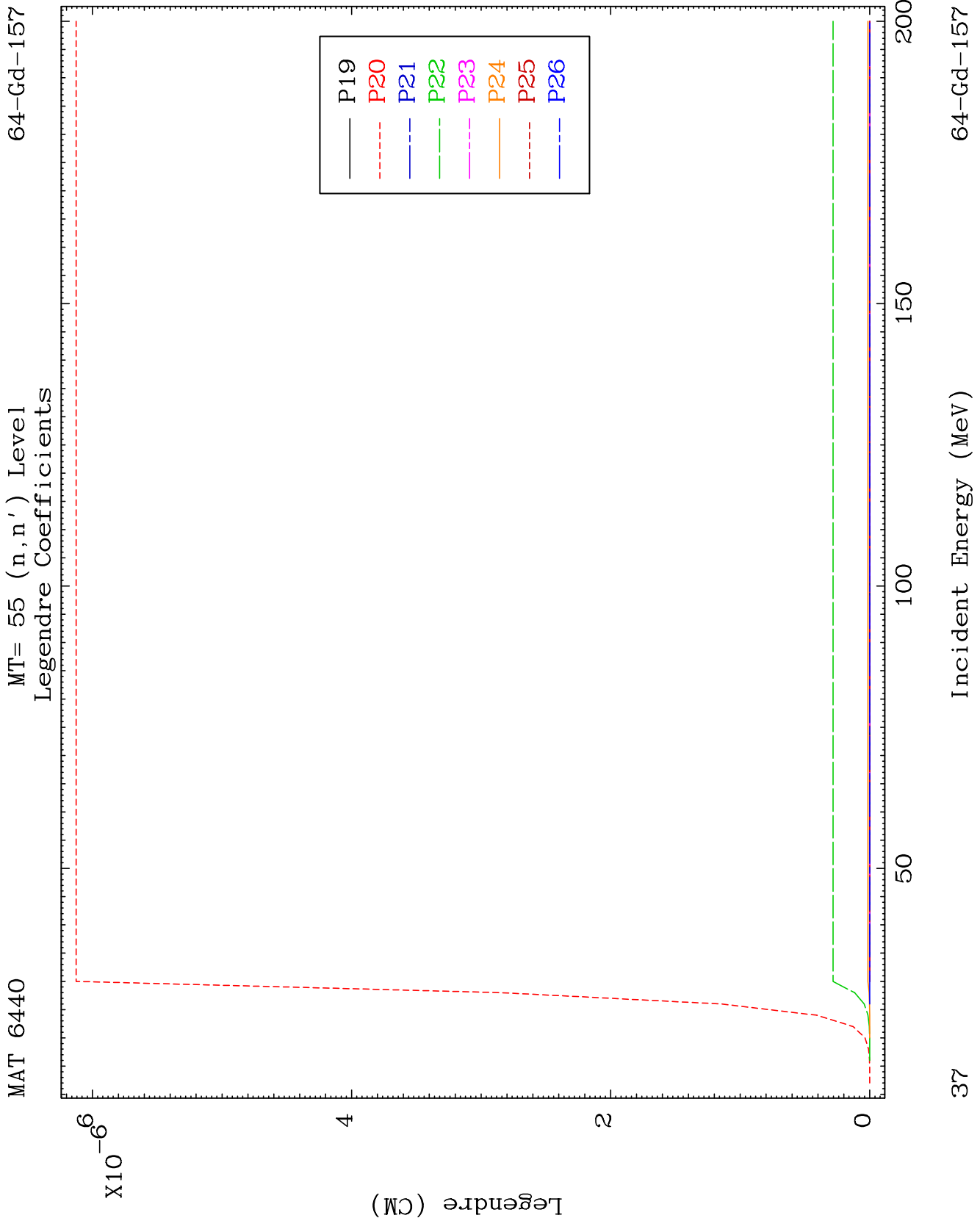
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Incident Energy (MeV)

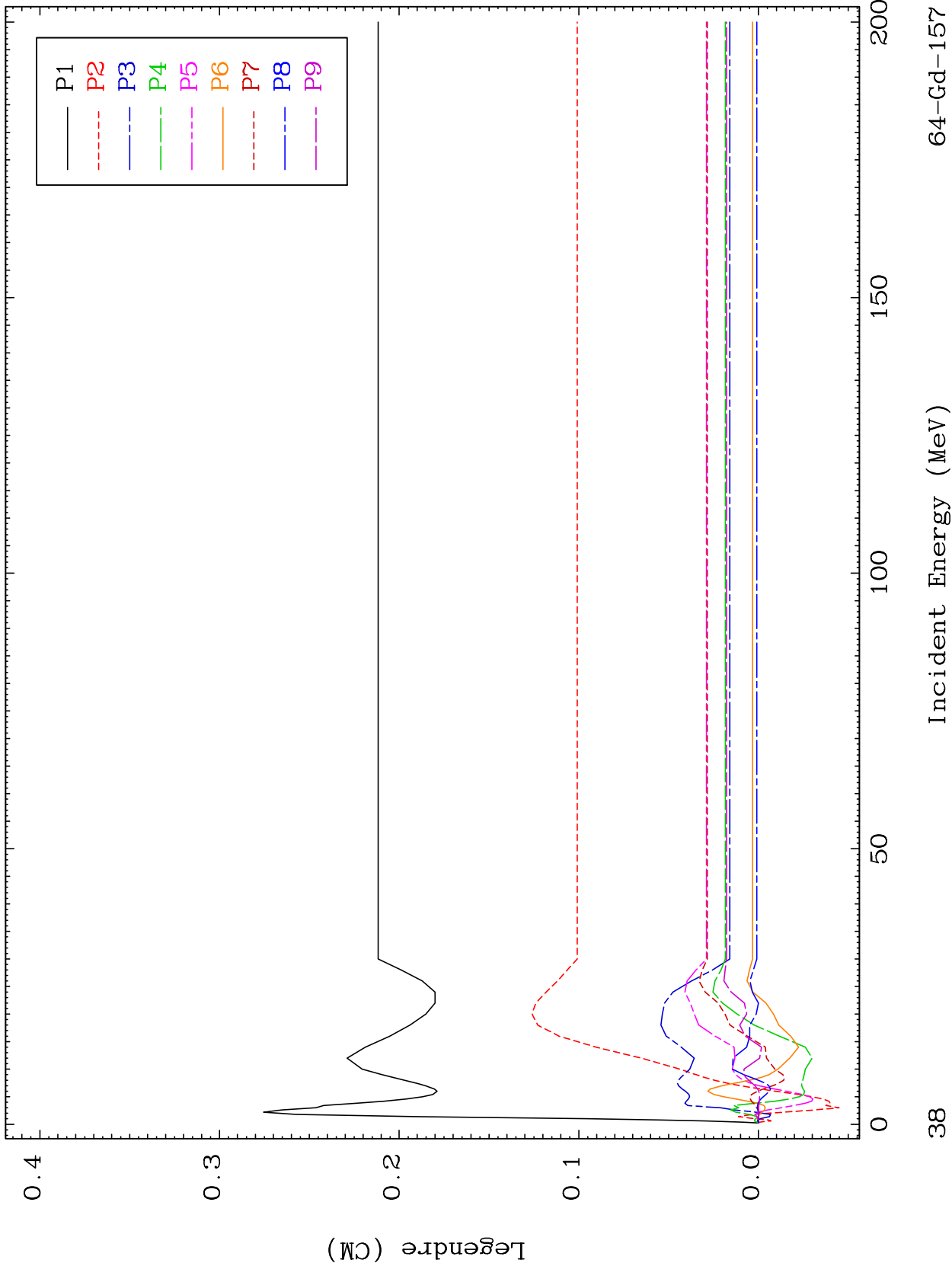
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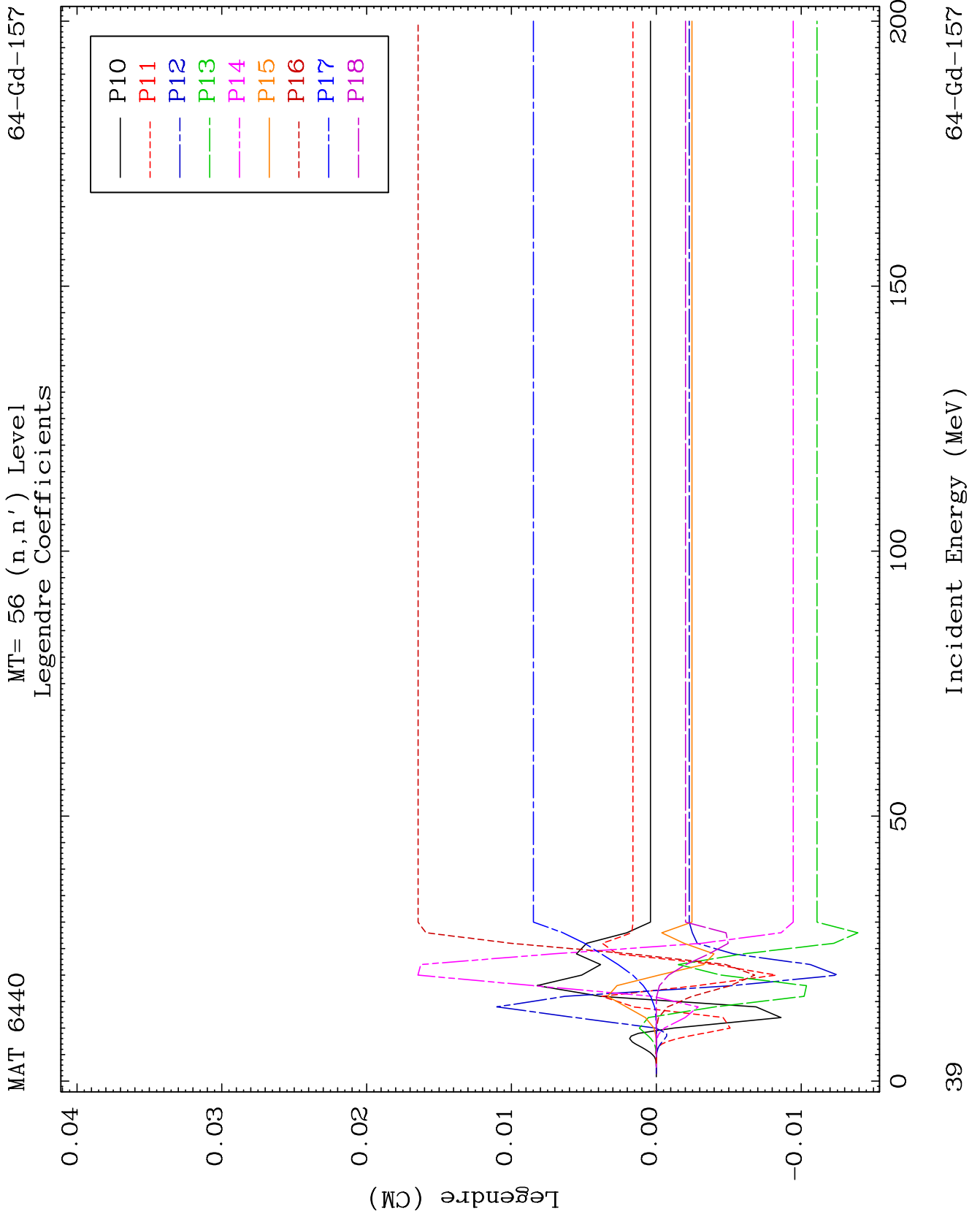


MAT 6440

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

64-Gd-157

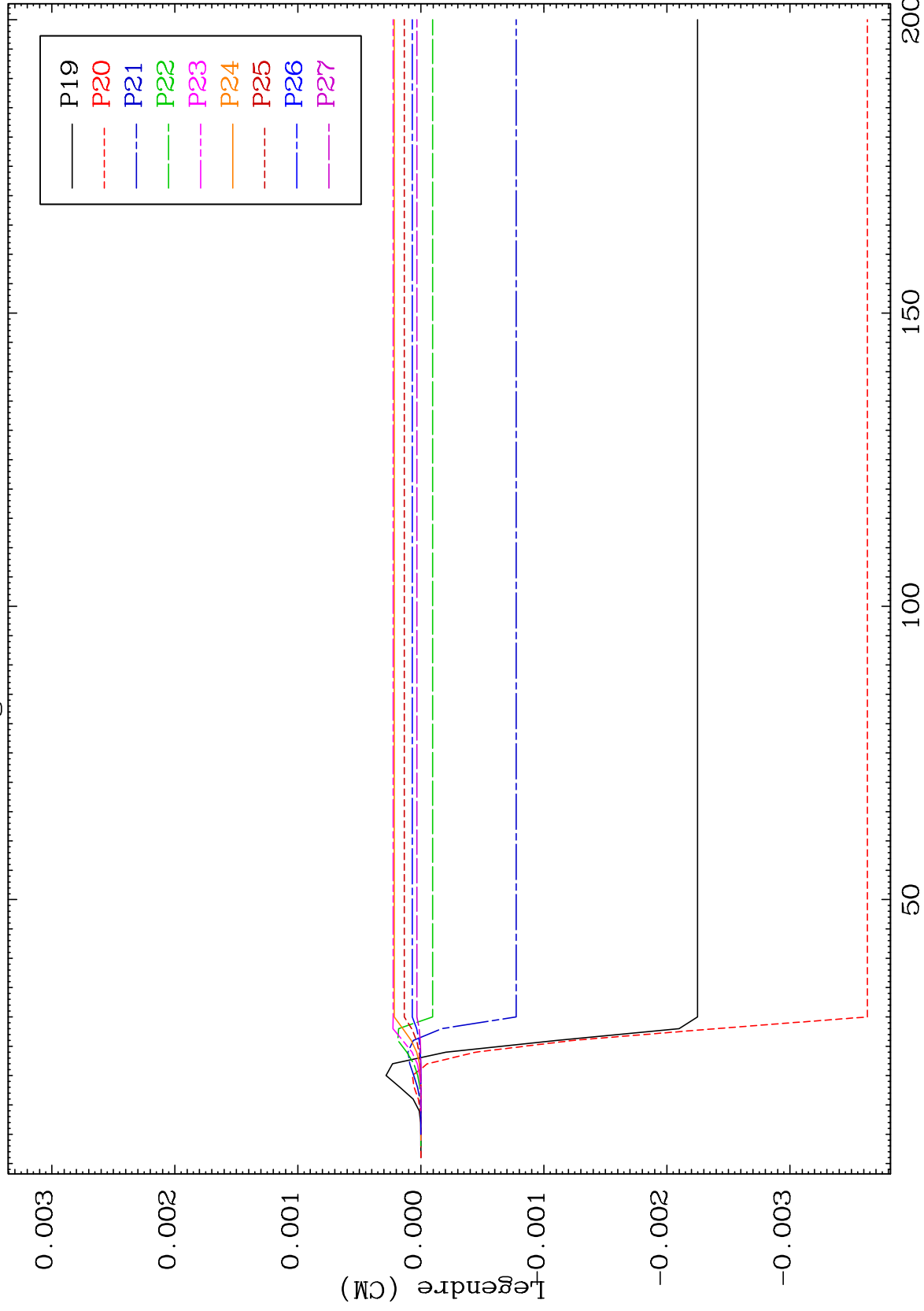




MAT 6440

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

64-Gd-157



40

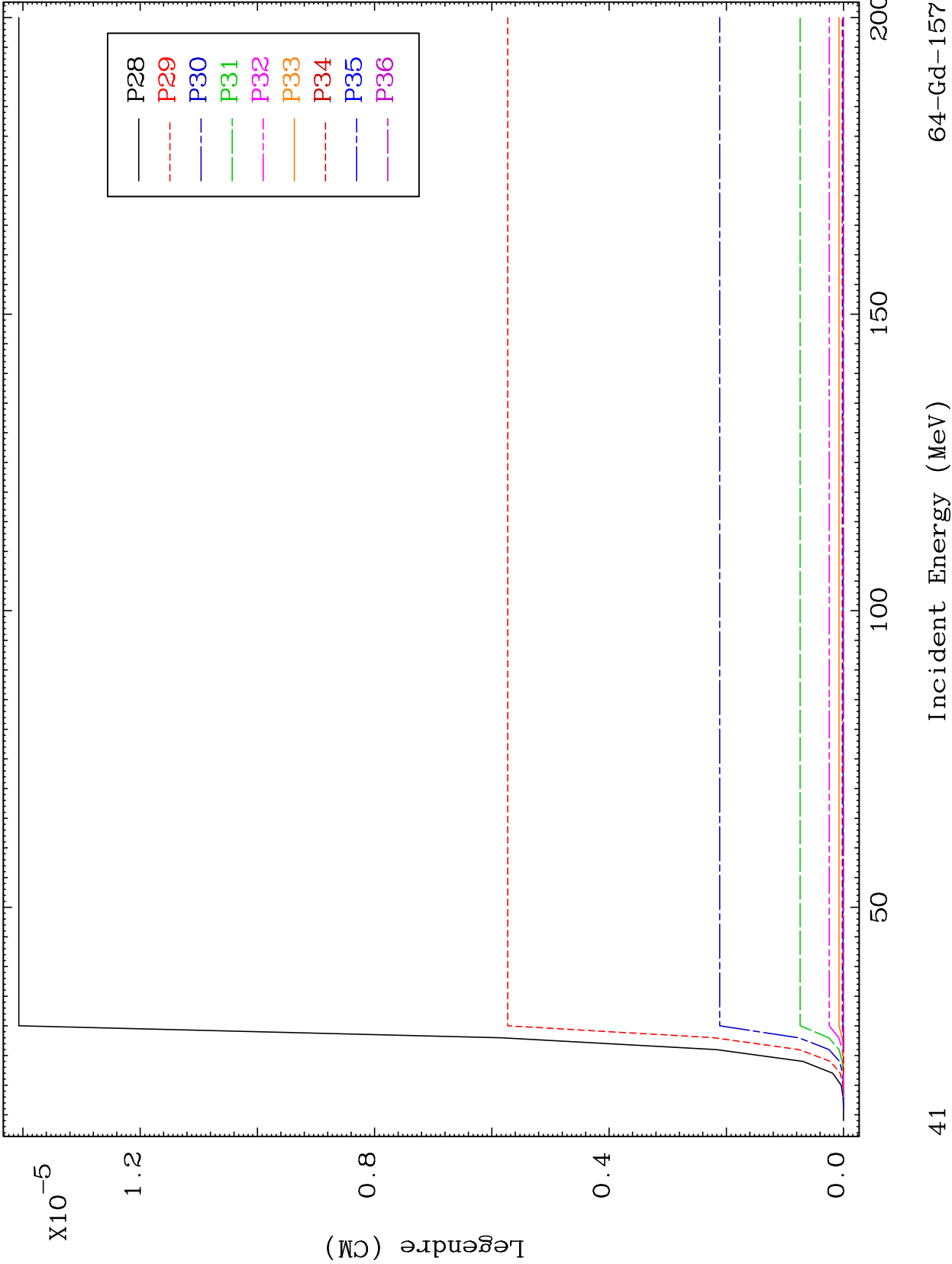
Incident Energy (MeV)

64-Gd-157

MAT 6440

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

64-Gd-157



41

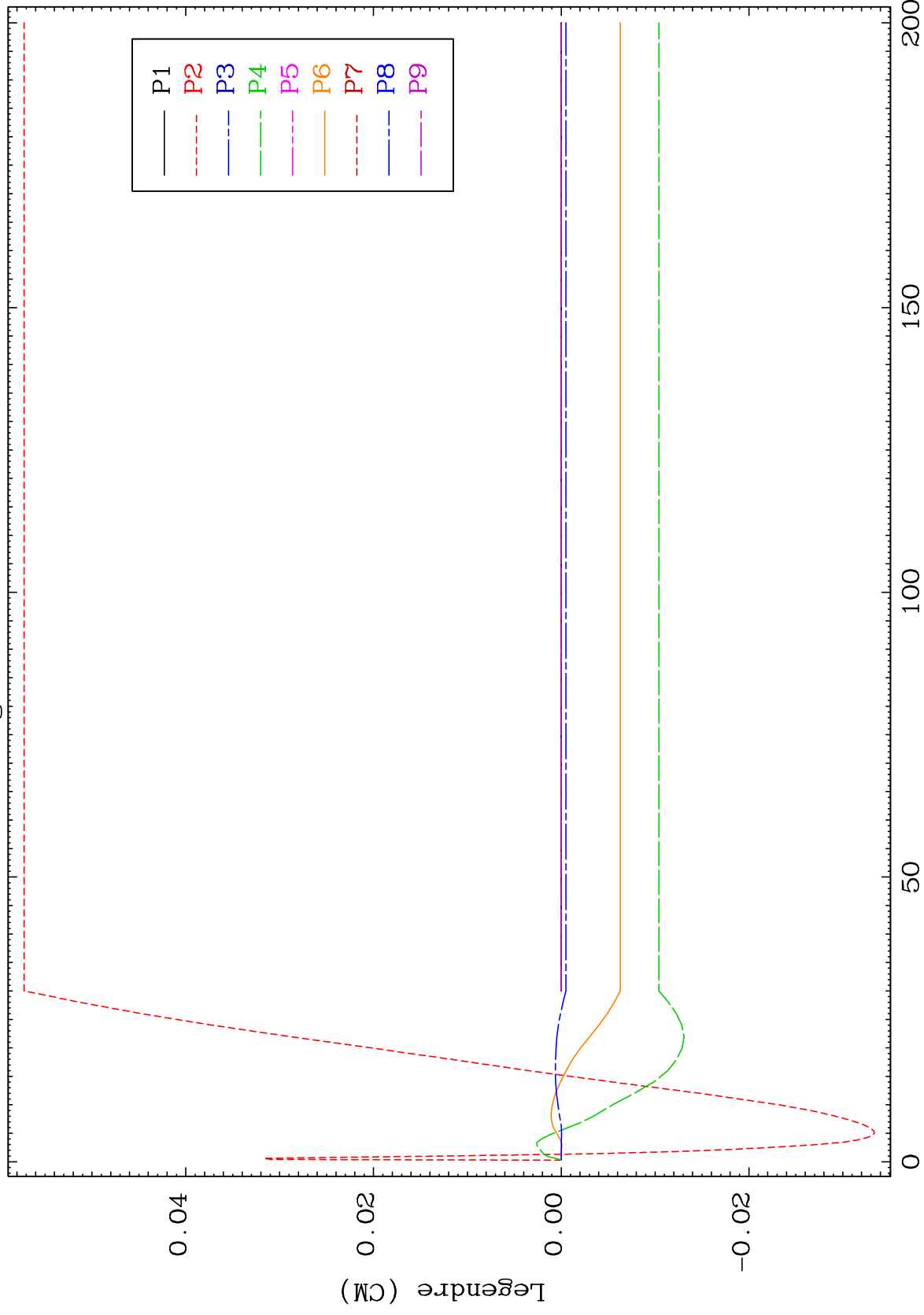
Incident Energy (MeV)

64-Gd-157

MAT 6440

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

64-Gd-157



42

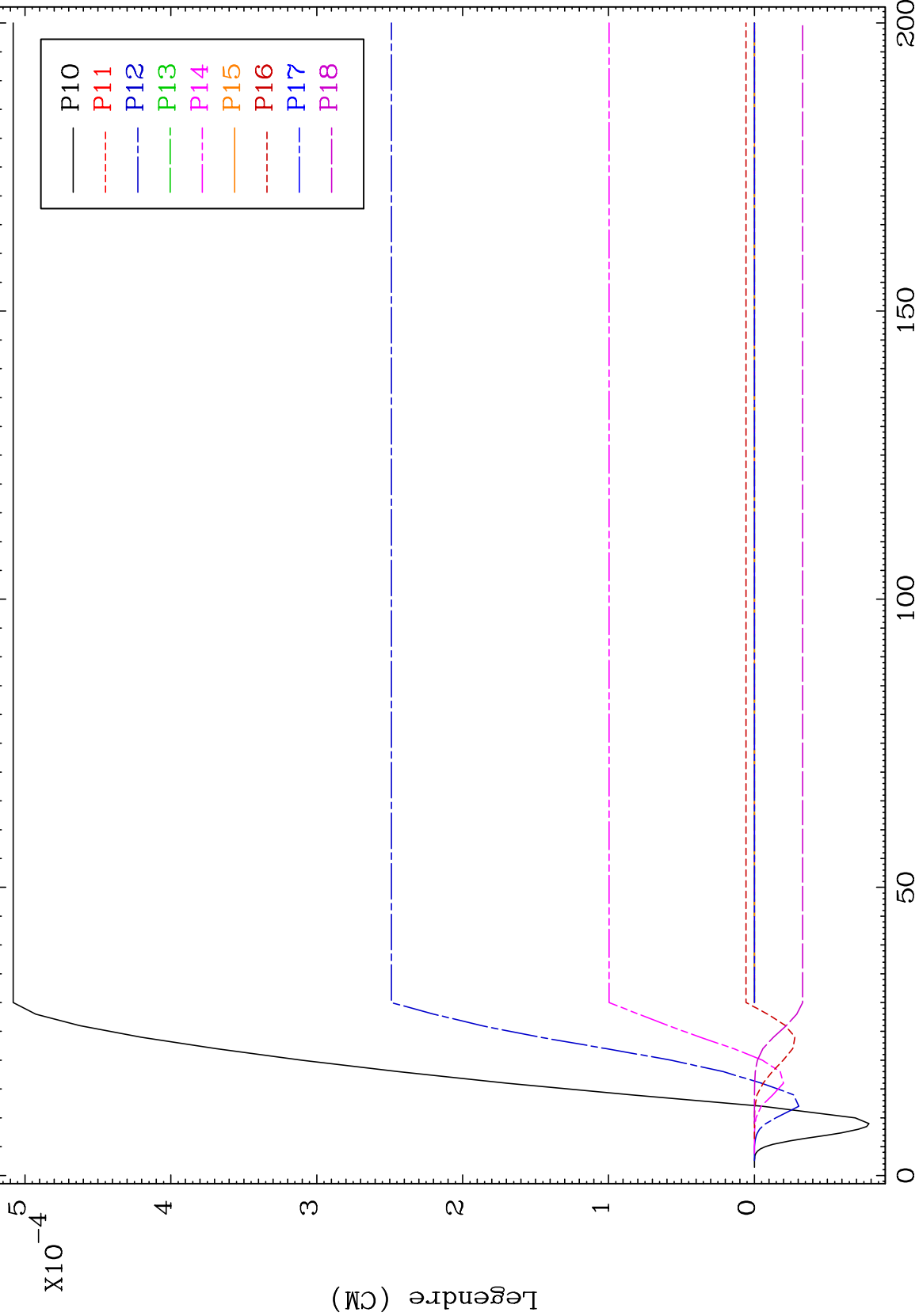
Incident Energy (MeV)

64-Gd-157

MAT 6440

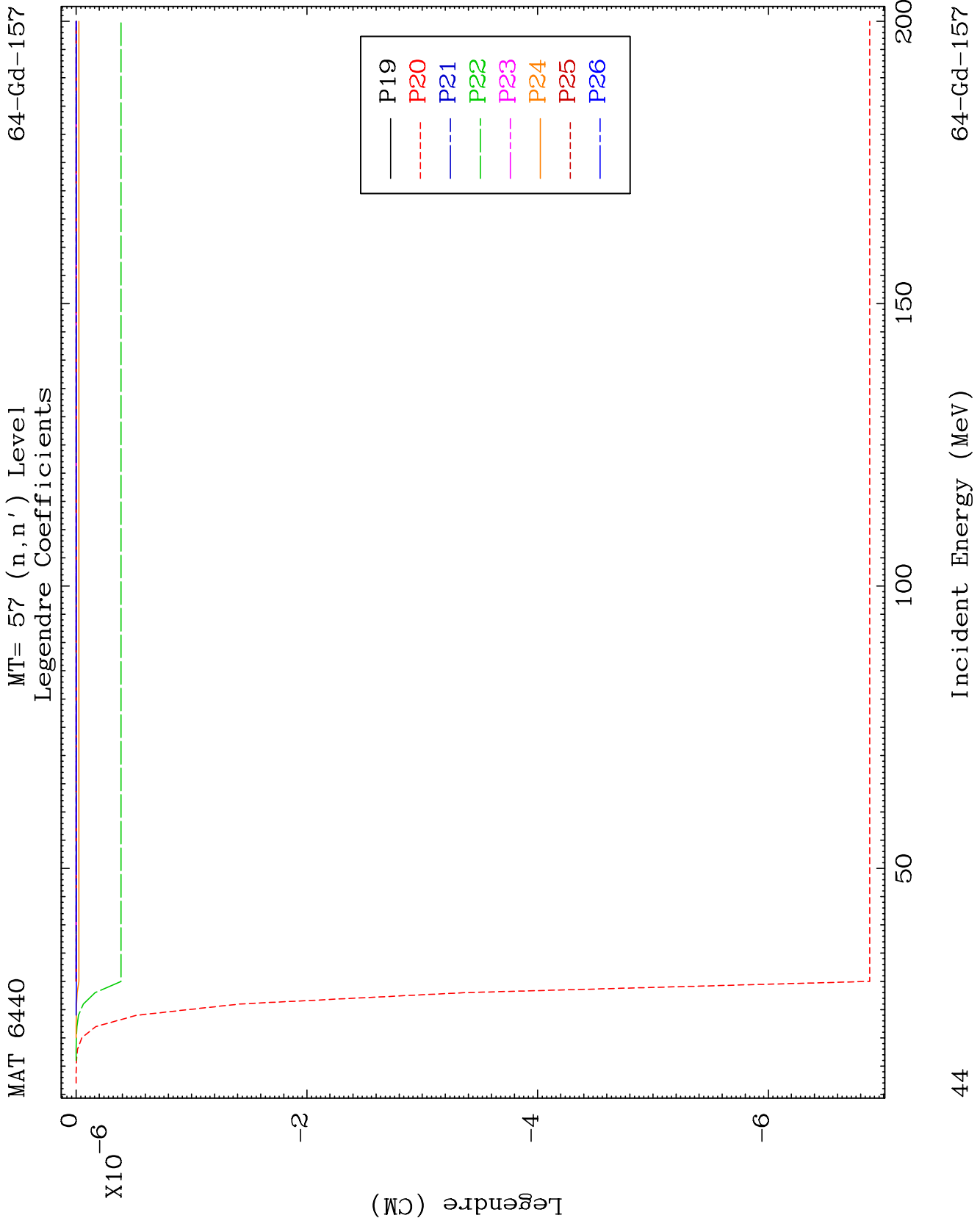
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Legendre Coefficients

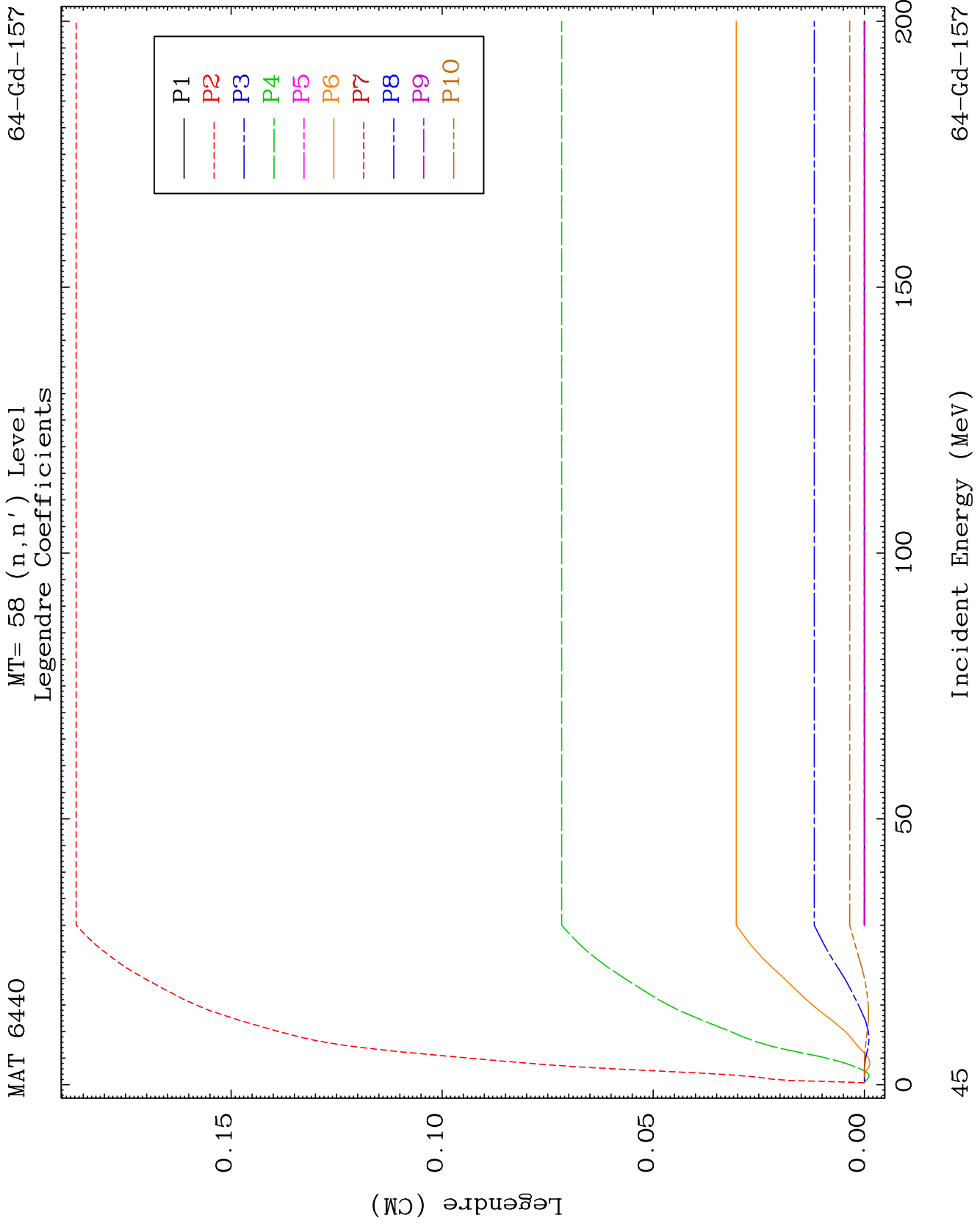
64-Gd-157



43

64-Gd-157

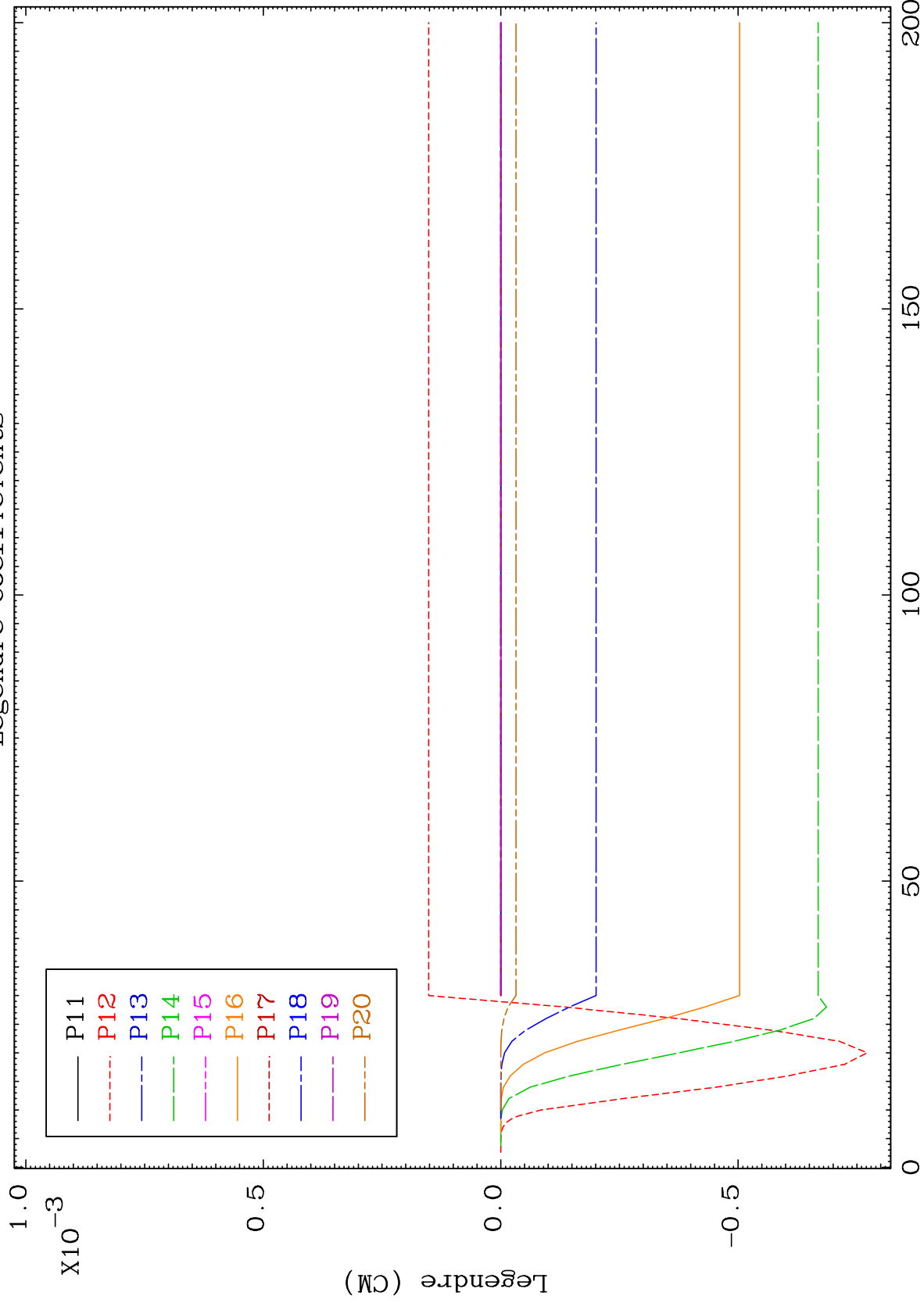




MAT 6440

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

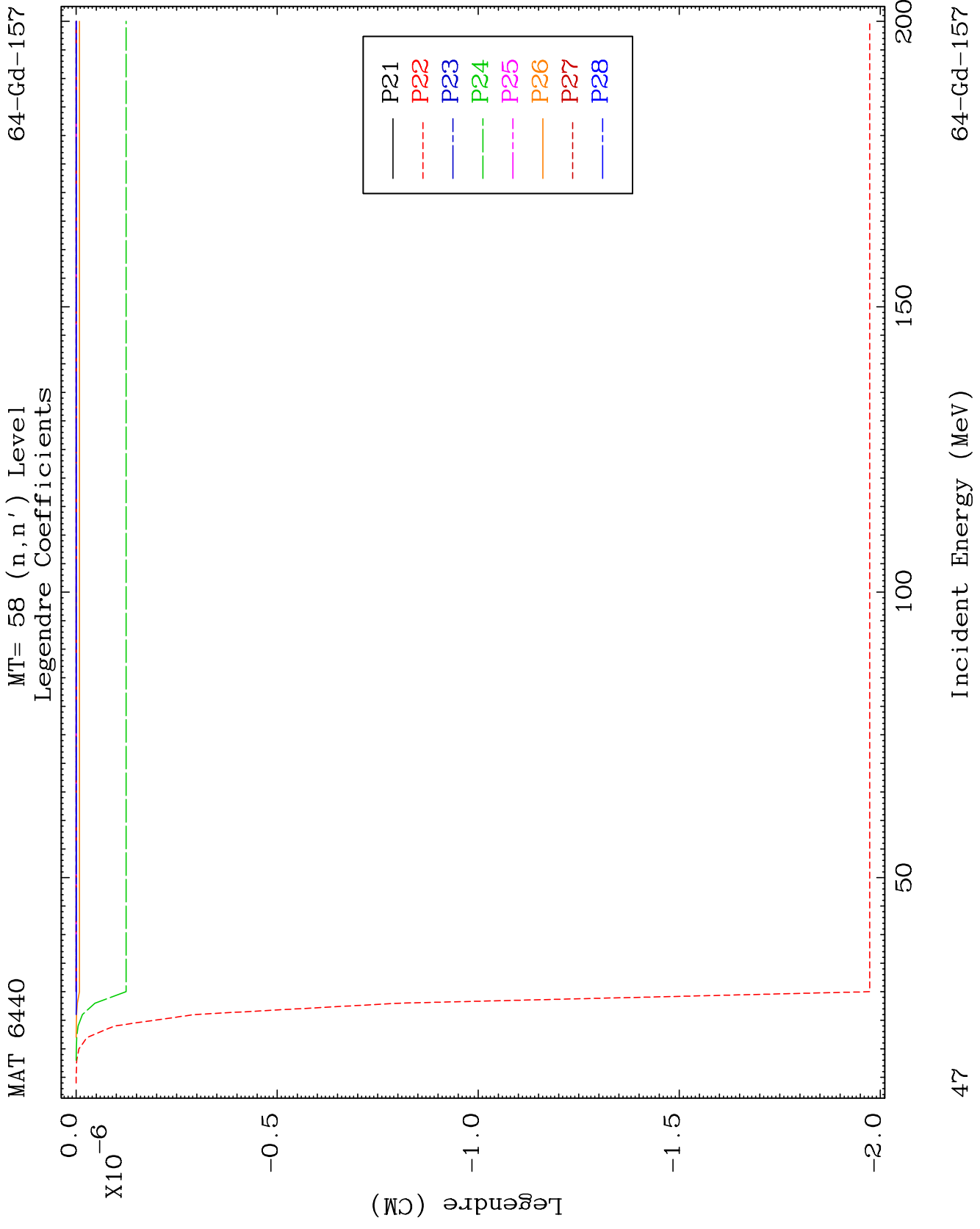
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46

64-Gd-157

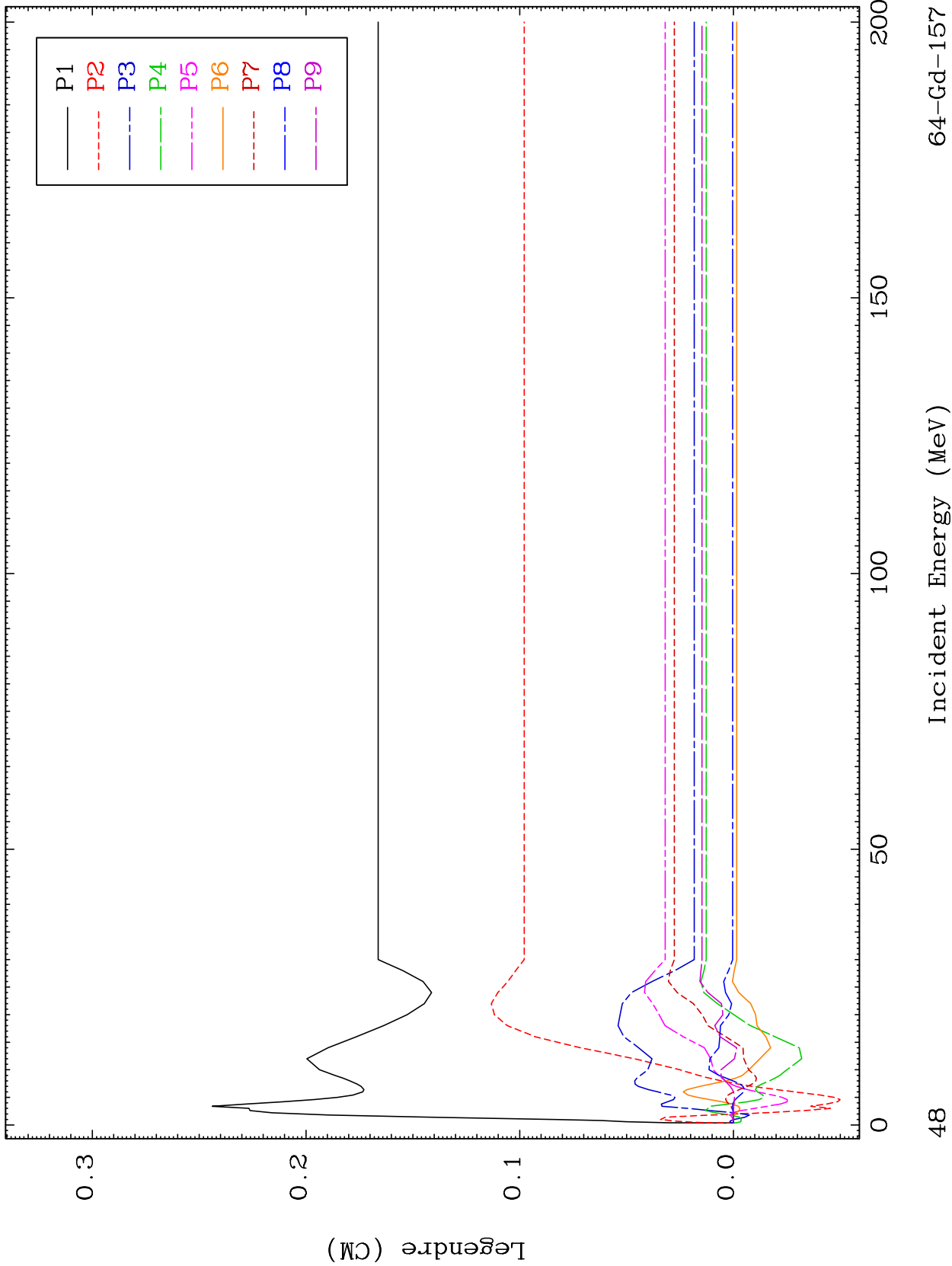
64-Gd-157



MAT 6440

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

64-Gd-157



64-Gd-157

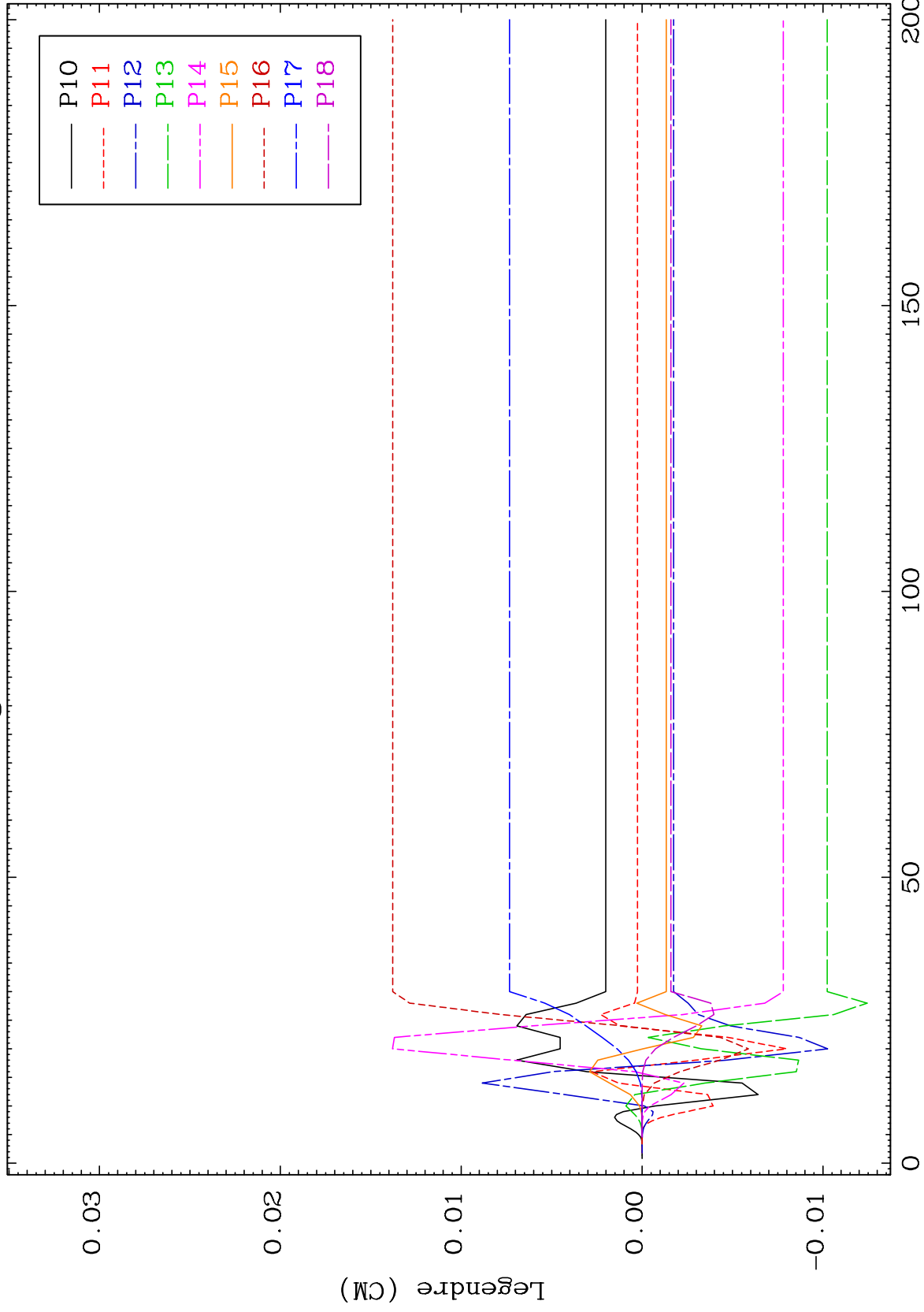
Incident Energy (MeV)

48

MAT 6440

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

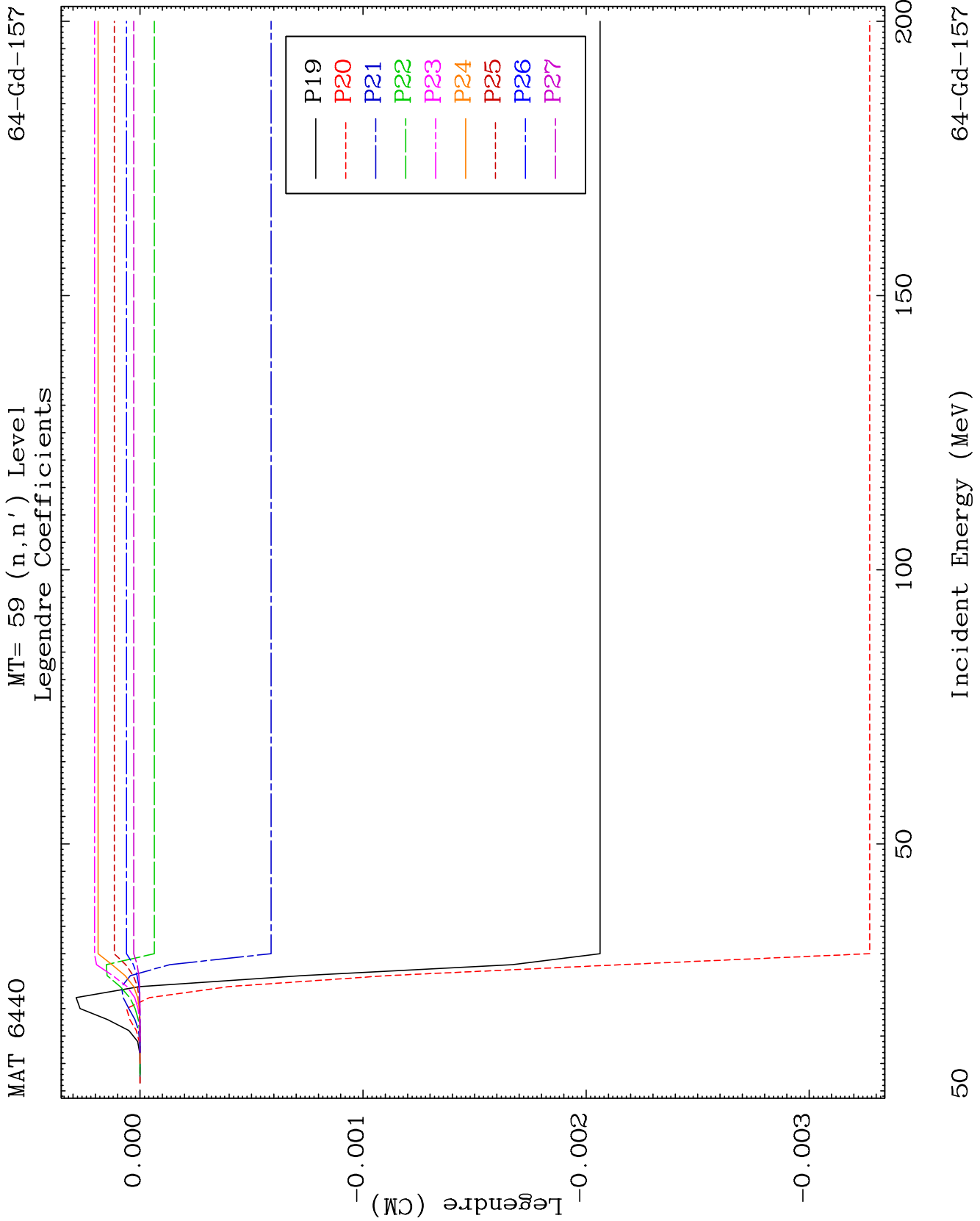
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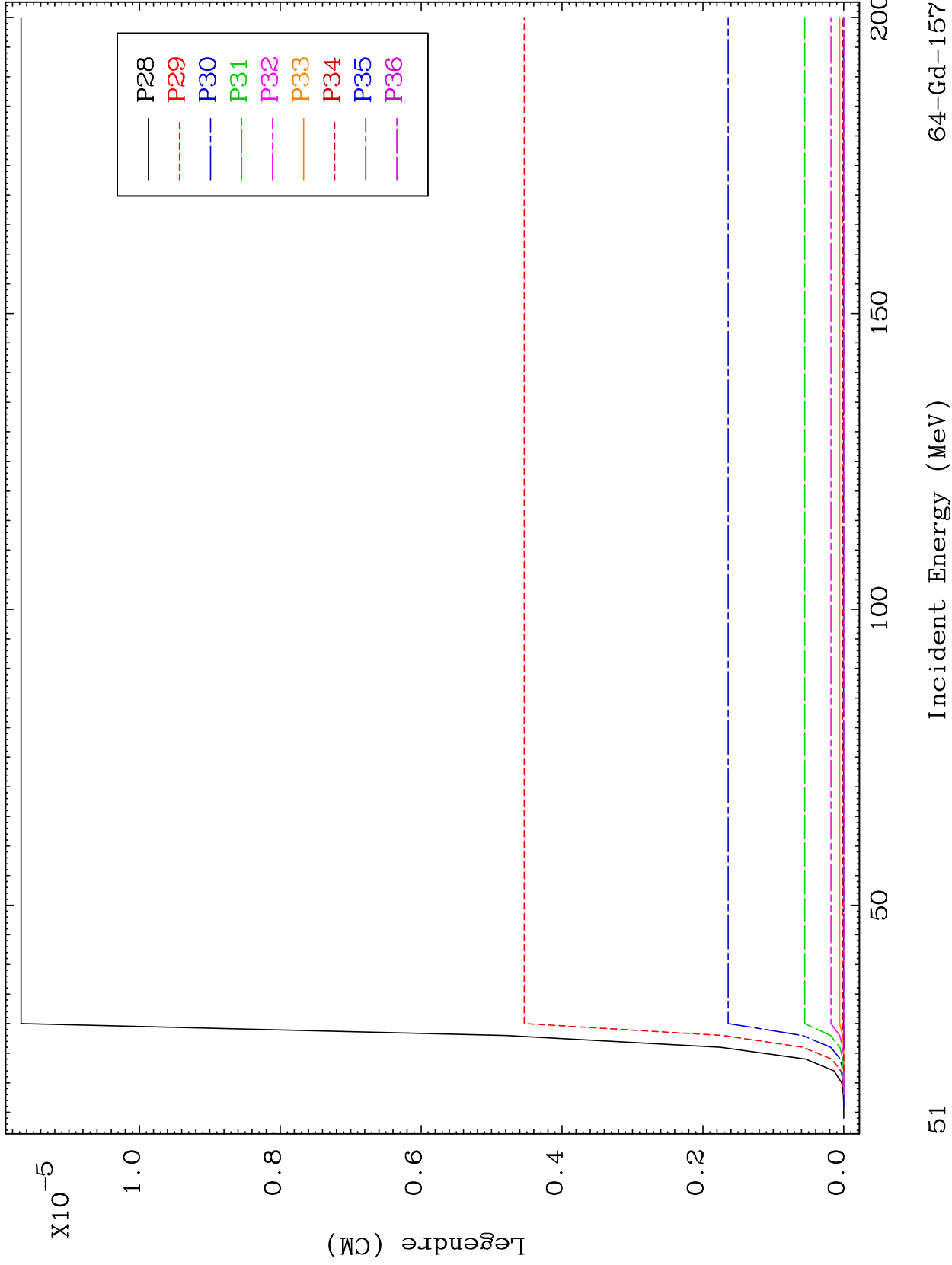


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Incident Energy (MeV)

64-Gd-157

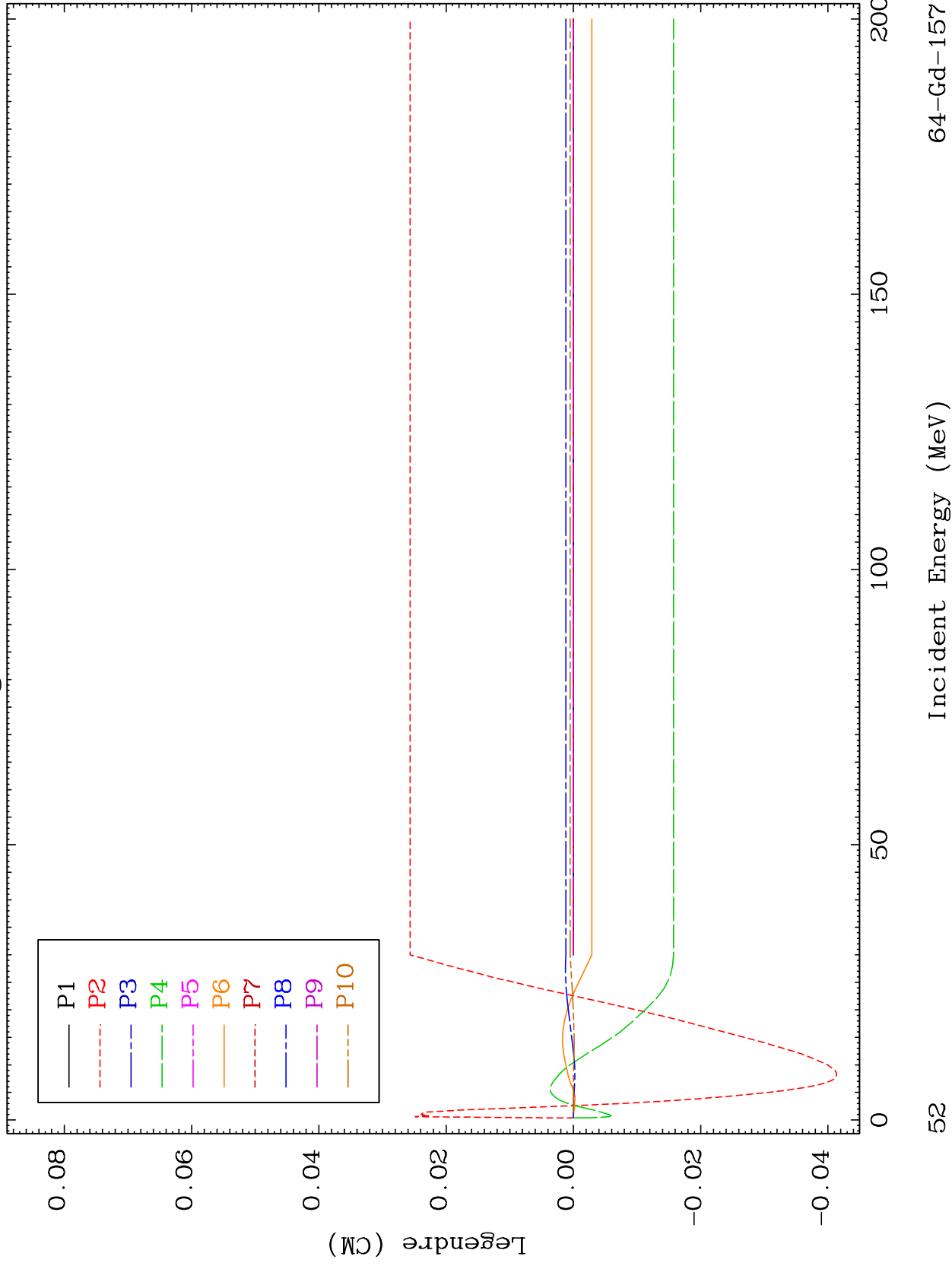




MAT 6440

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

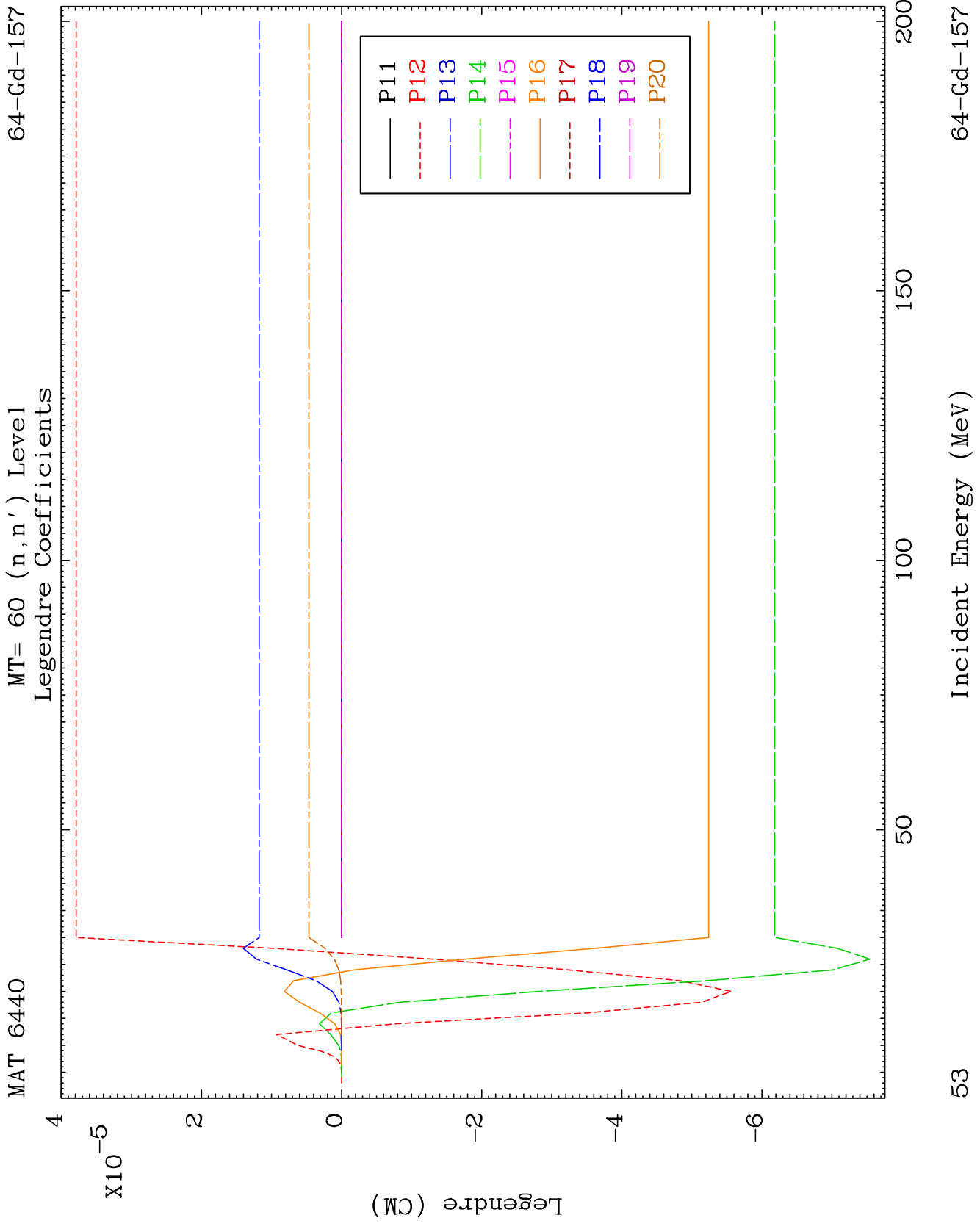
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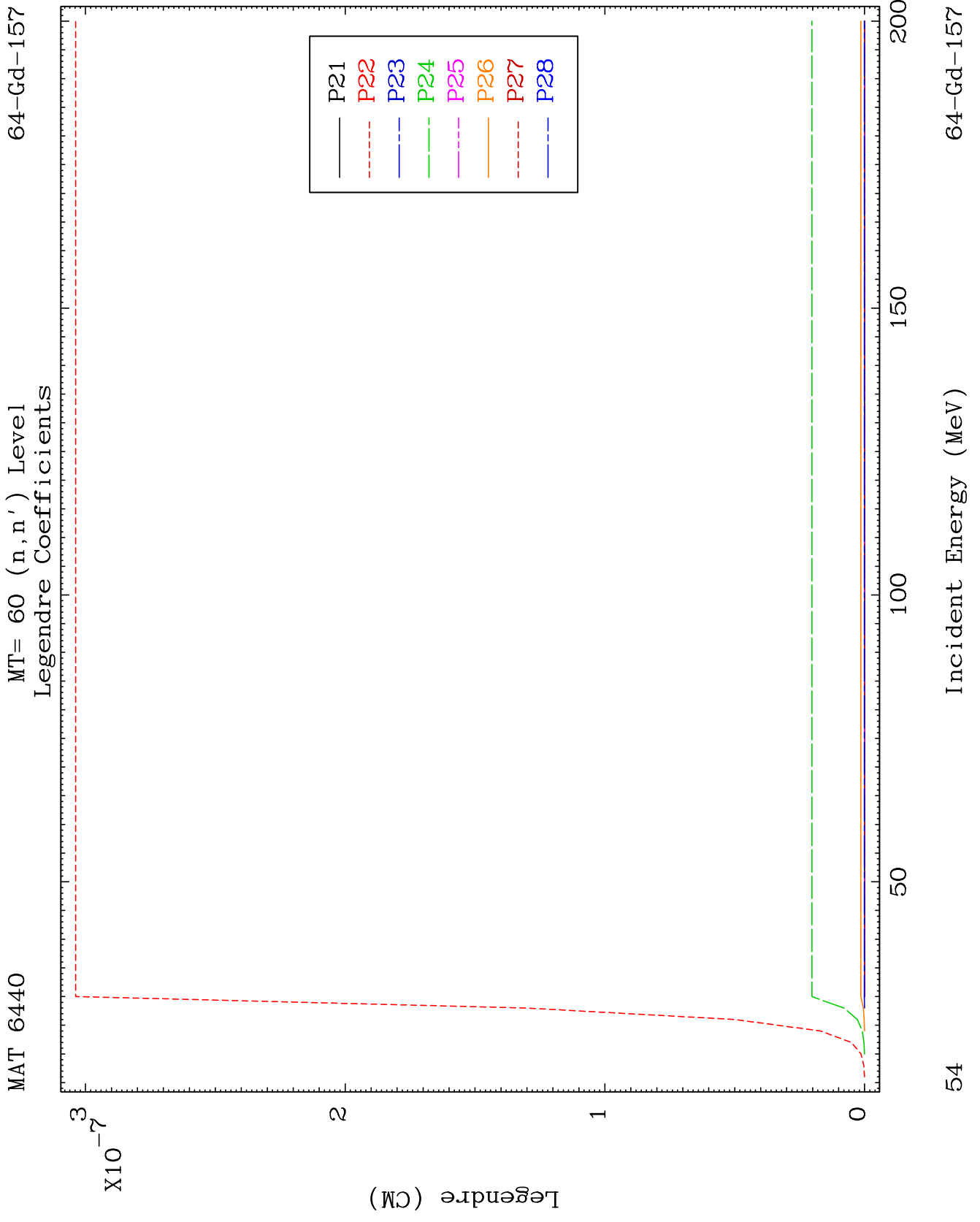


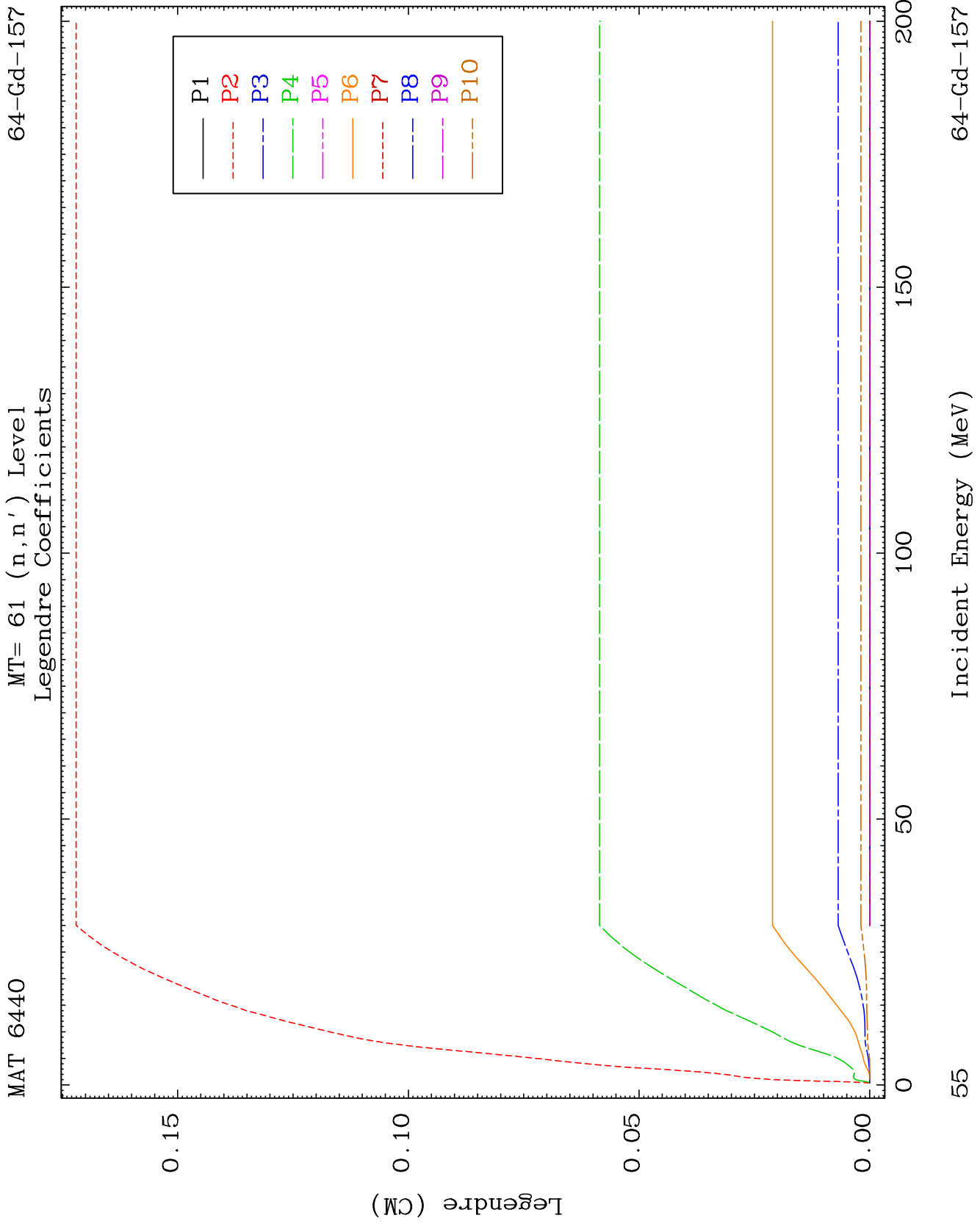
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Incident Energy (MeV)

52



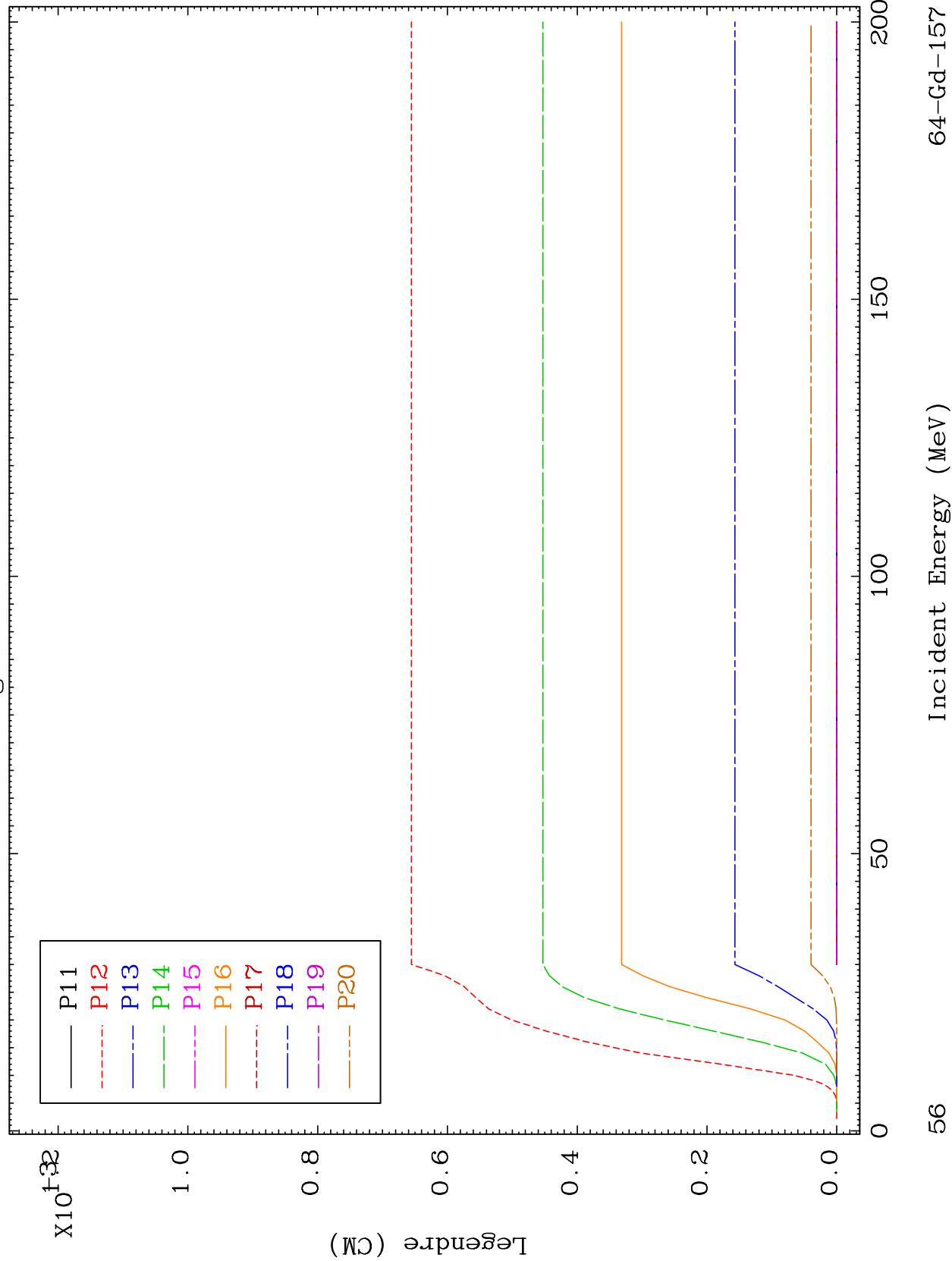


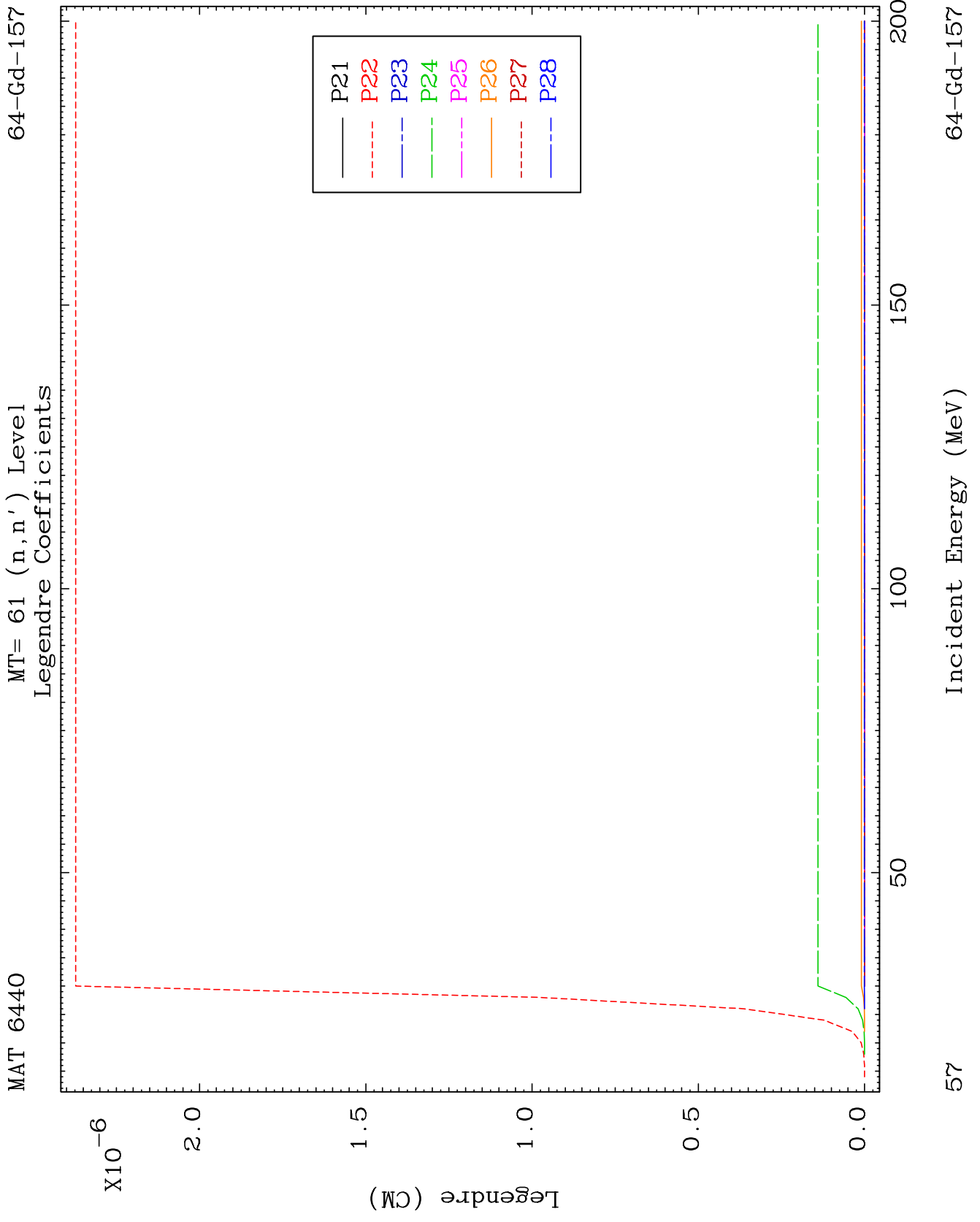


MAT 6440

MT= 61 (n,n') Level
Legendre Coefficients

64-Gd-157

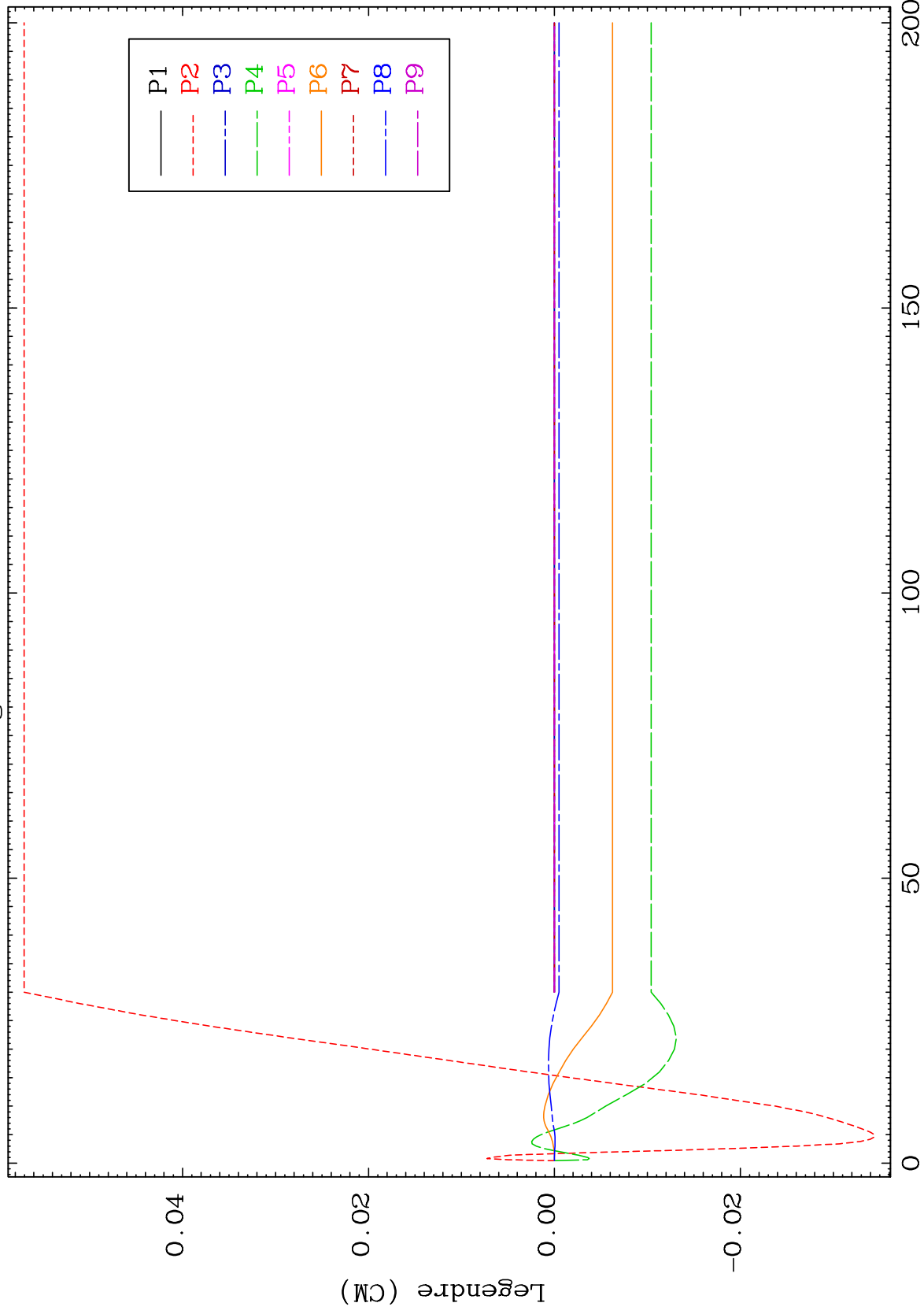




MAT 6440

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

64-Gd-157



58

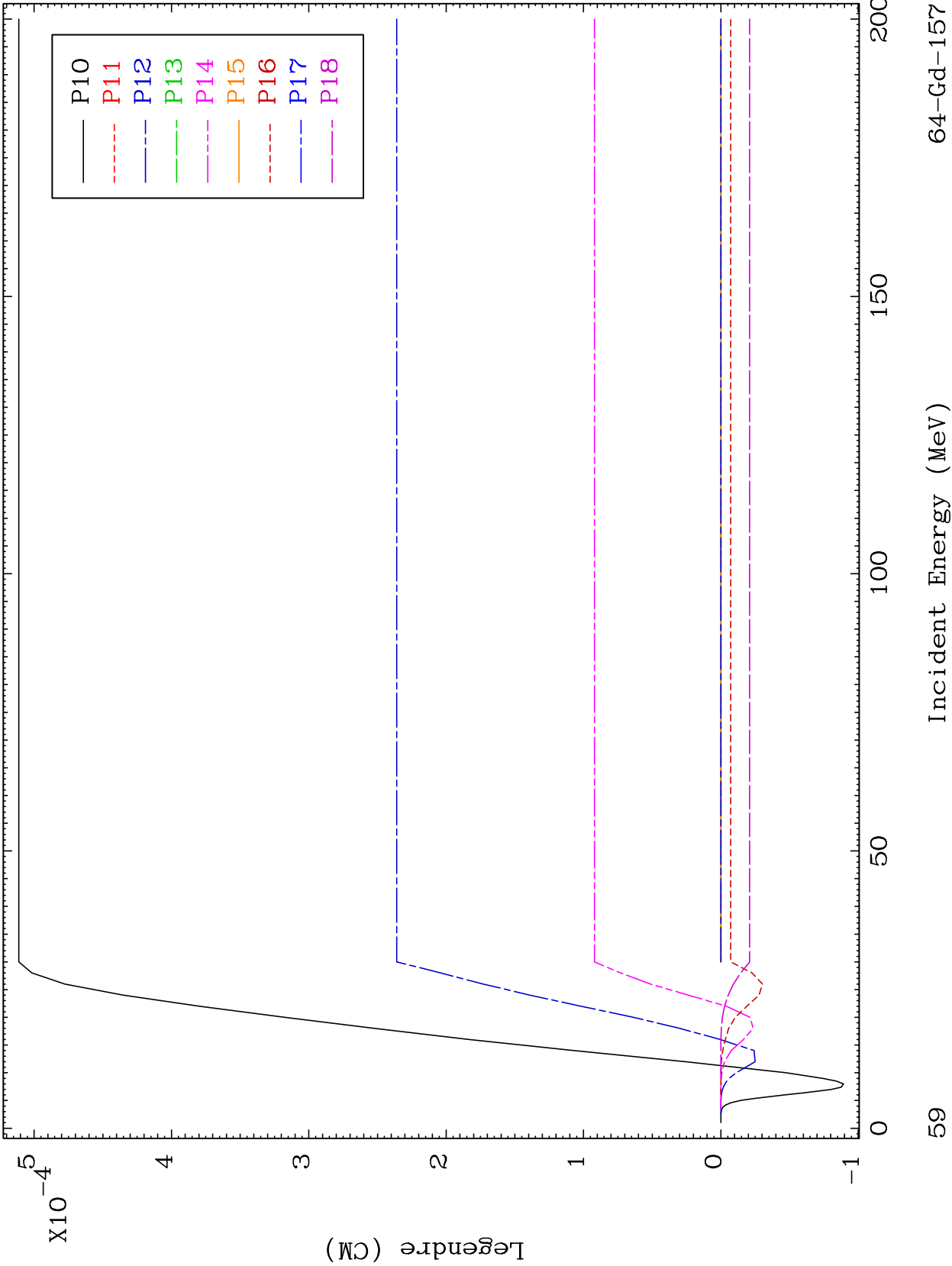
Incident Energy (MeV)

64-Gd-157

MAT 6440

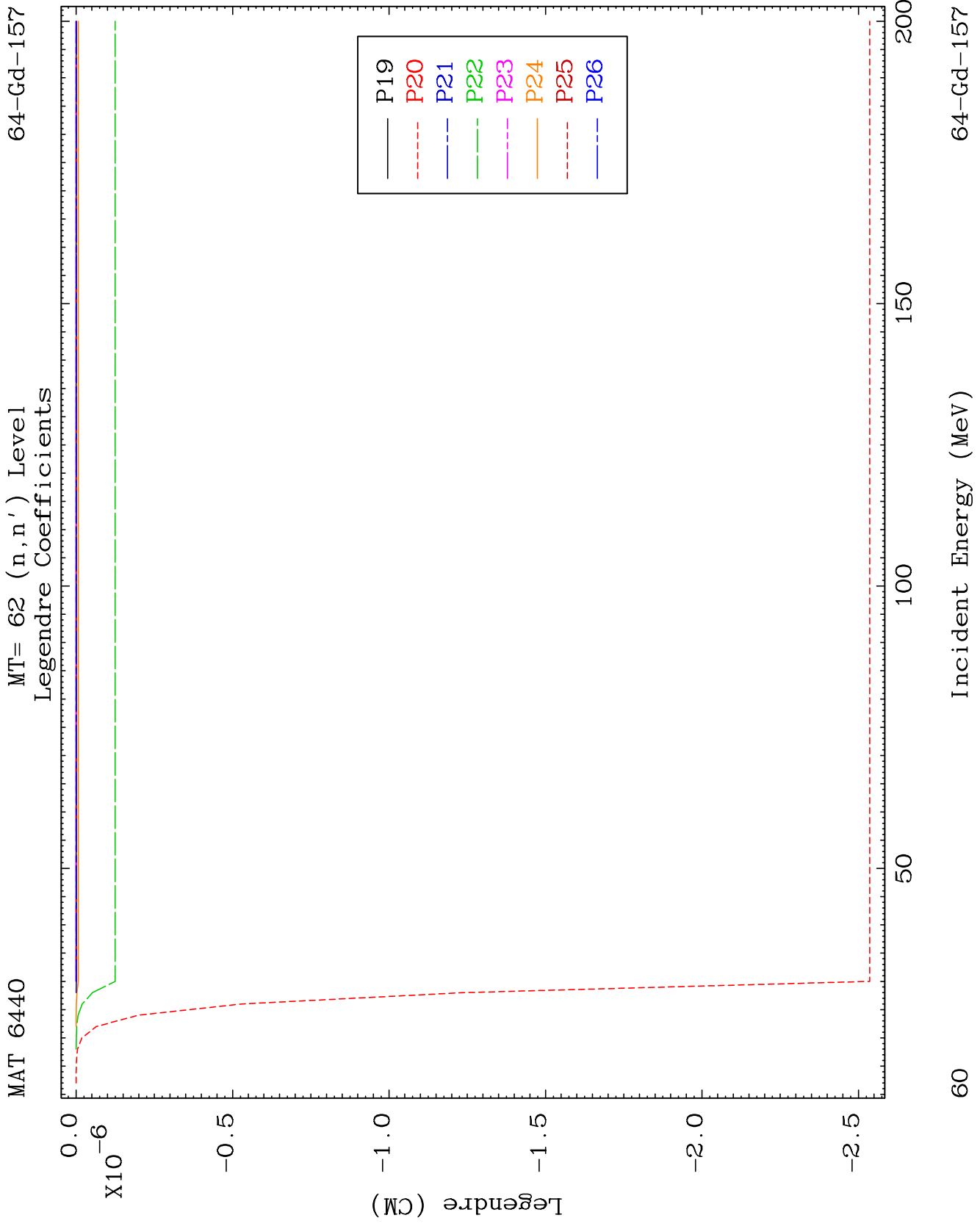
MT= 62 (n,n') Level
Legendre Coefficients

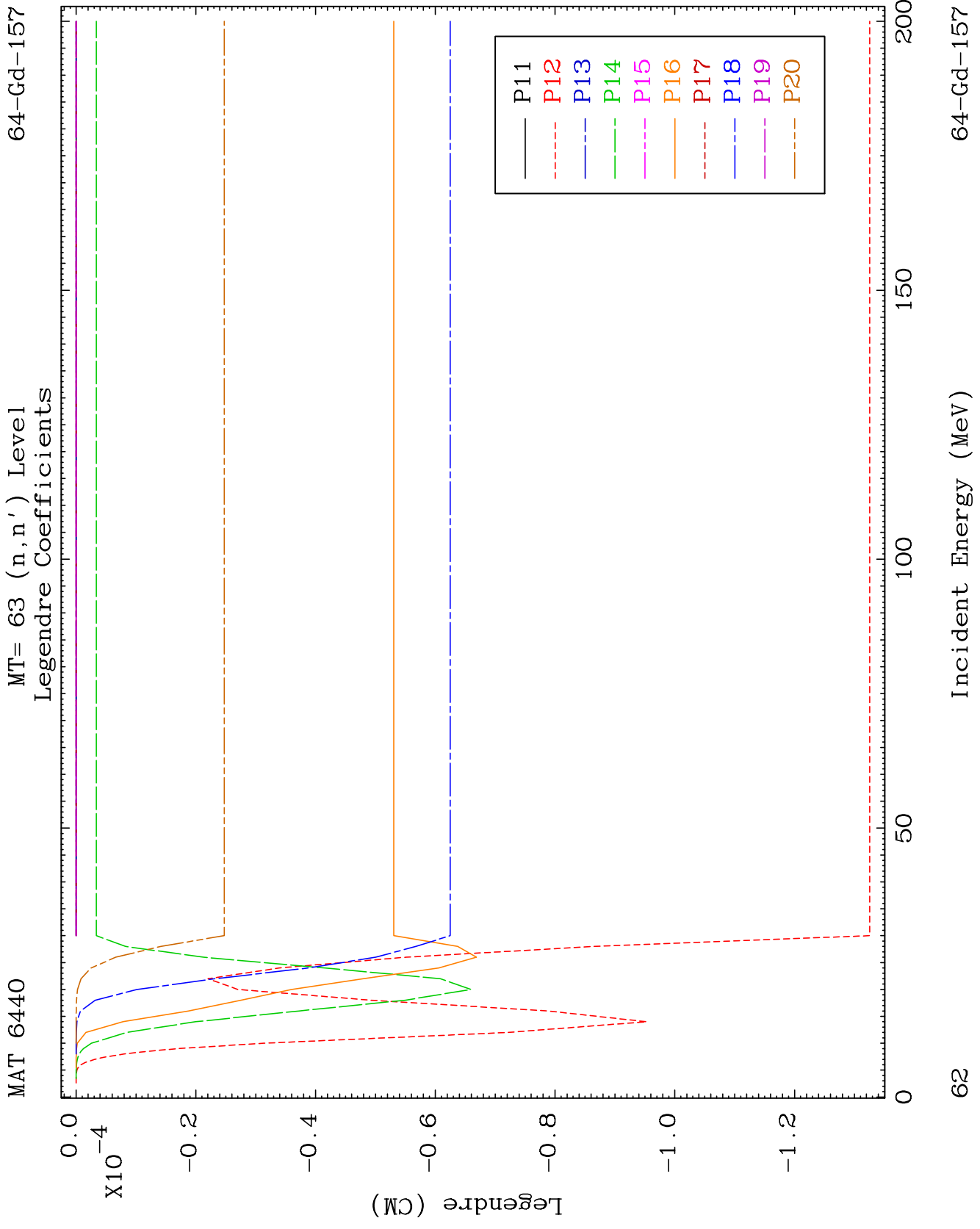
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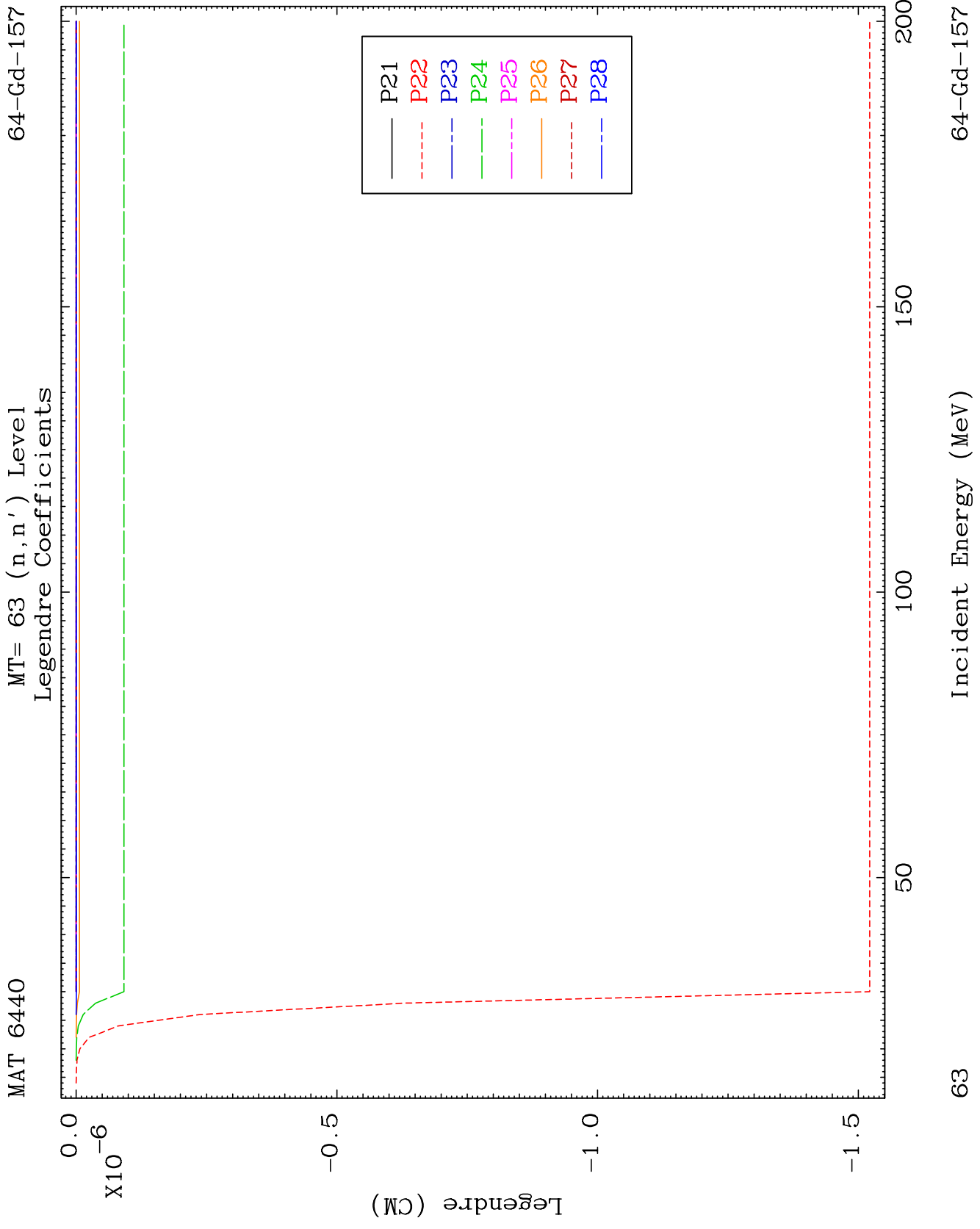


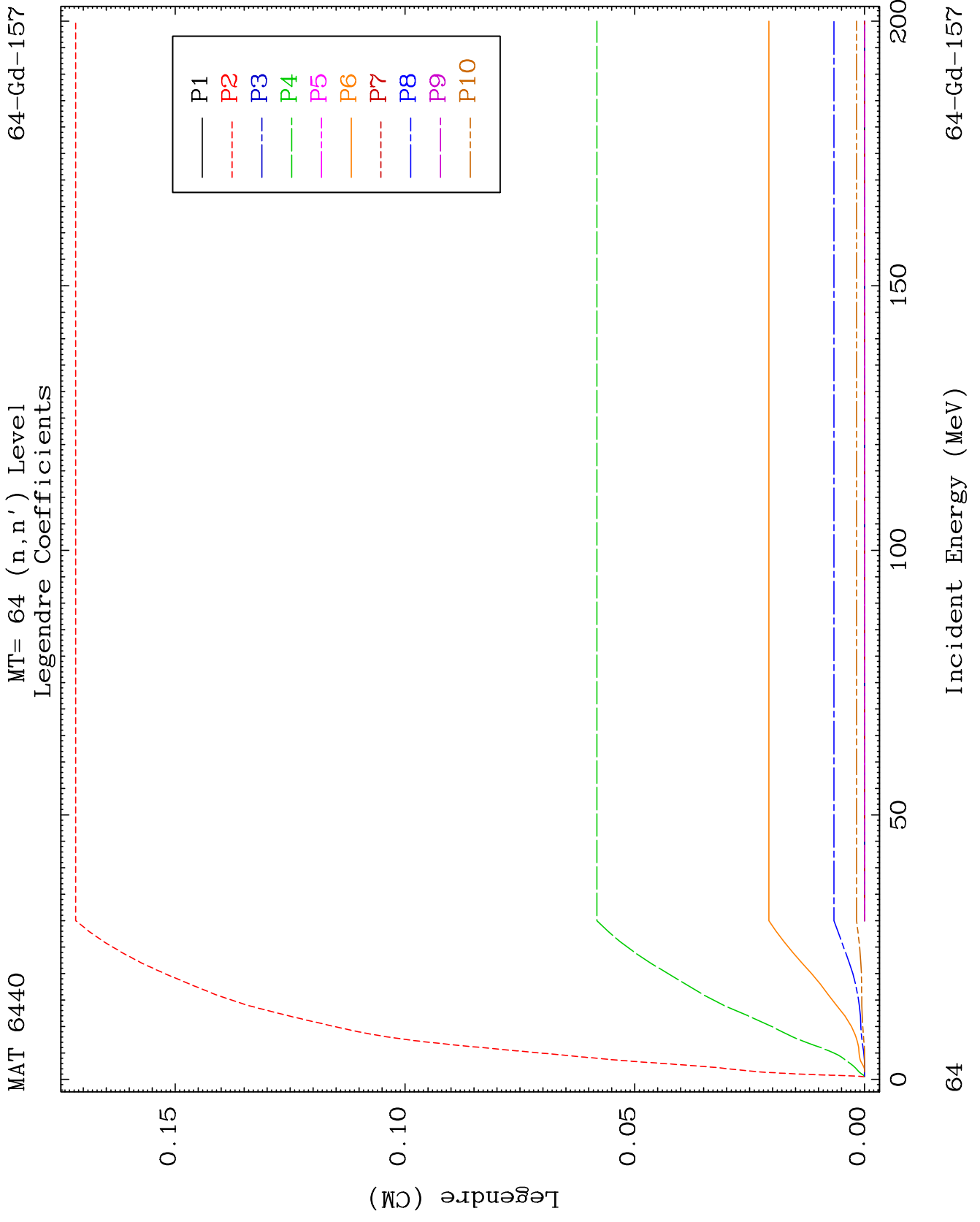
59

64-Gd-157





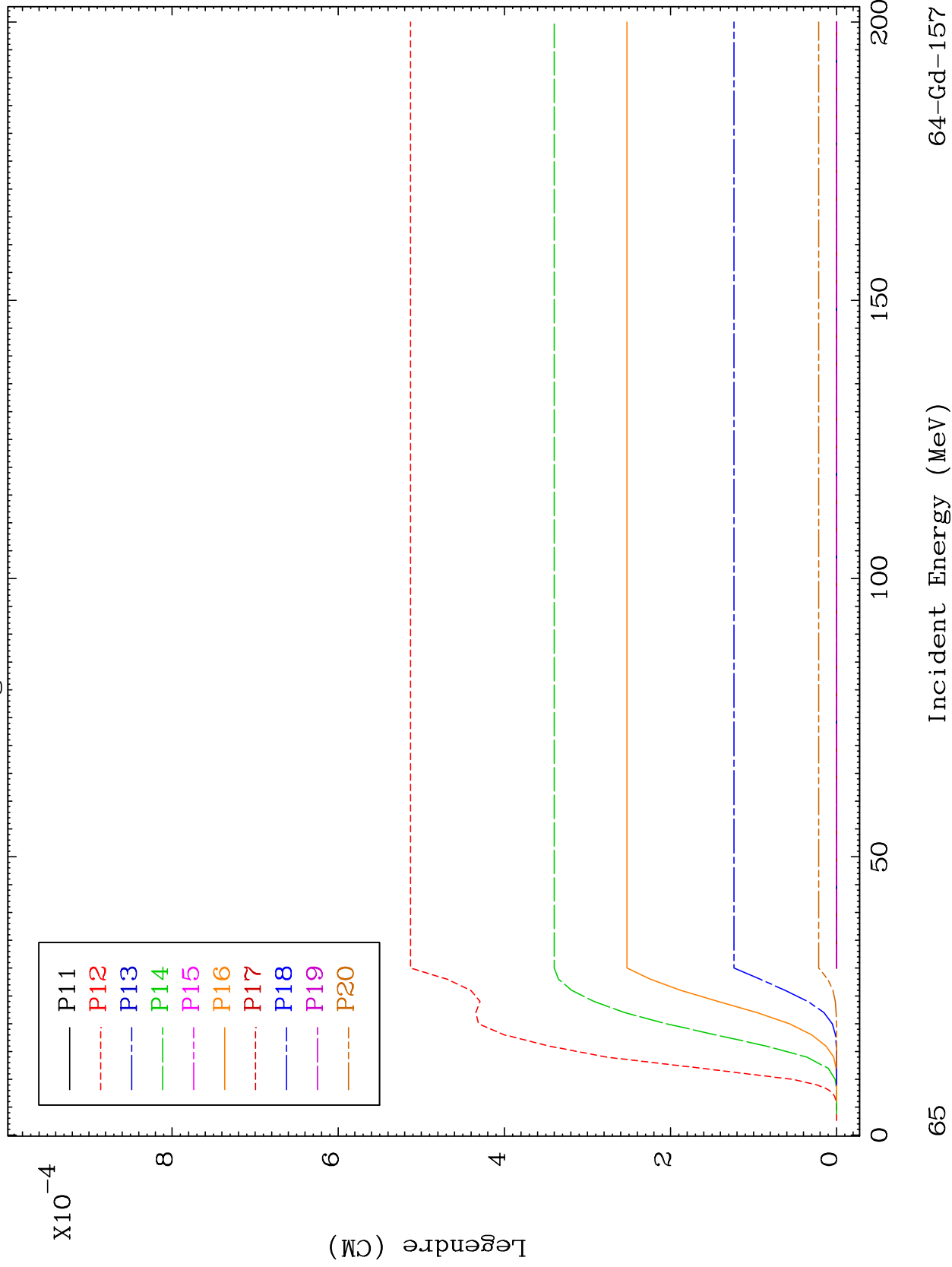




MAT 6440

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

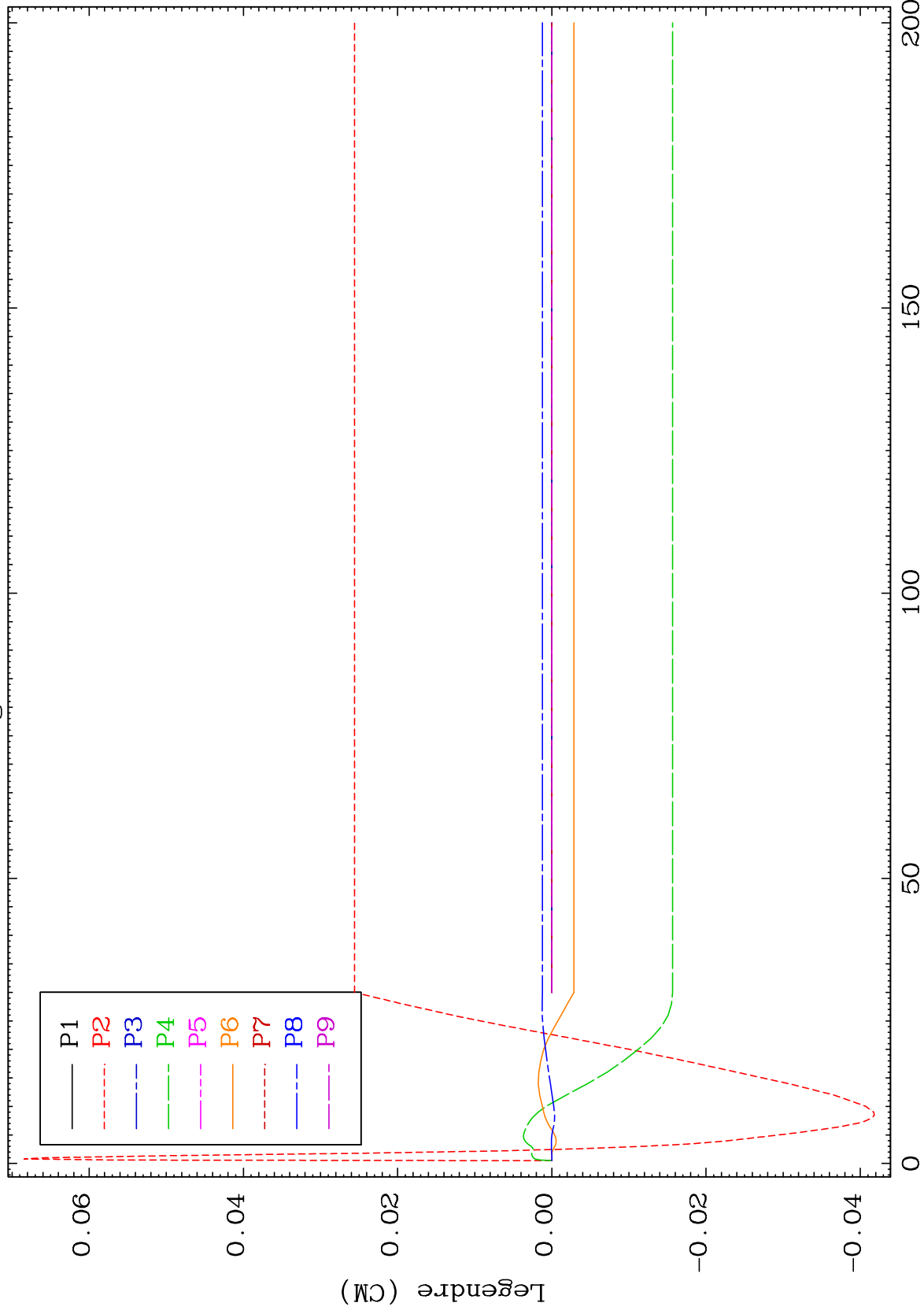
64-Gd-157



MAT 6440

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

64-Gd-157



67

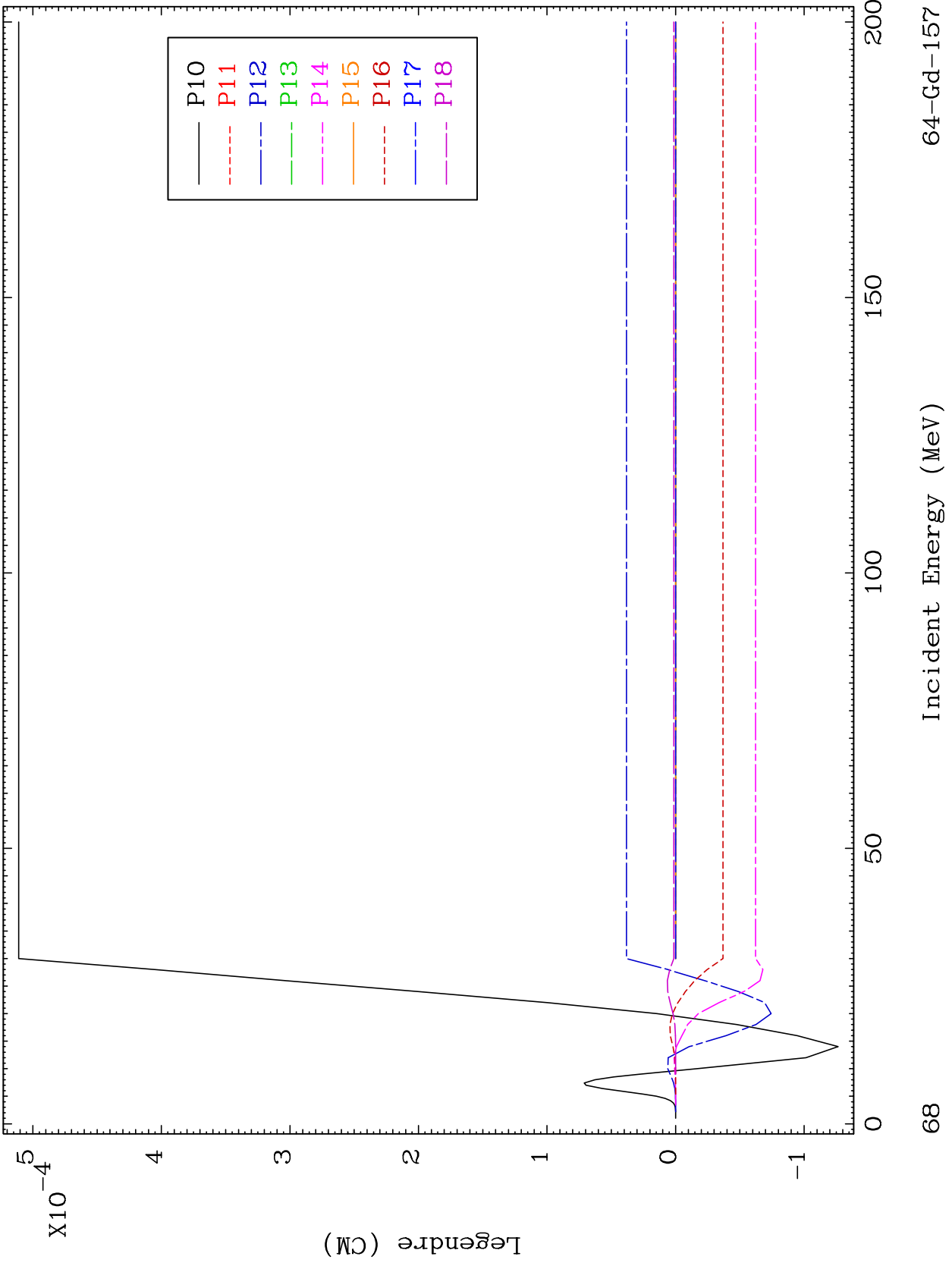
Incident Energy (MeV)

64-Gd-157

MAT 6440

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

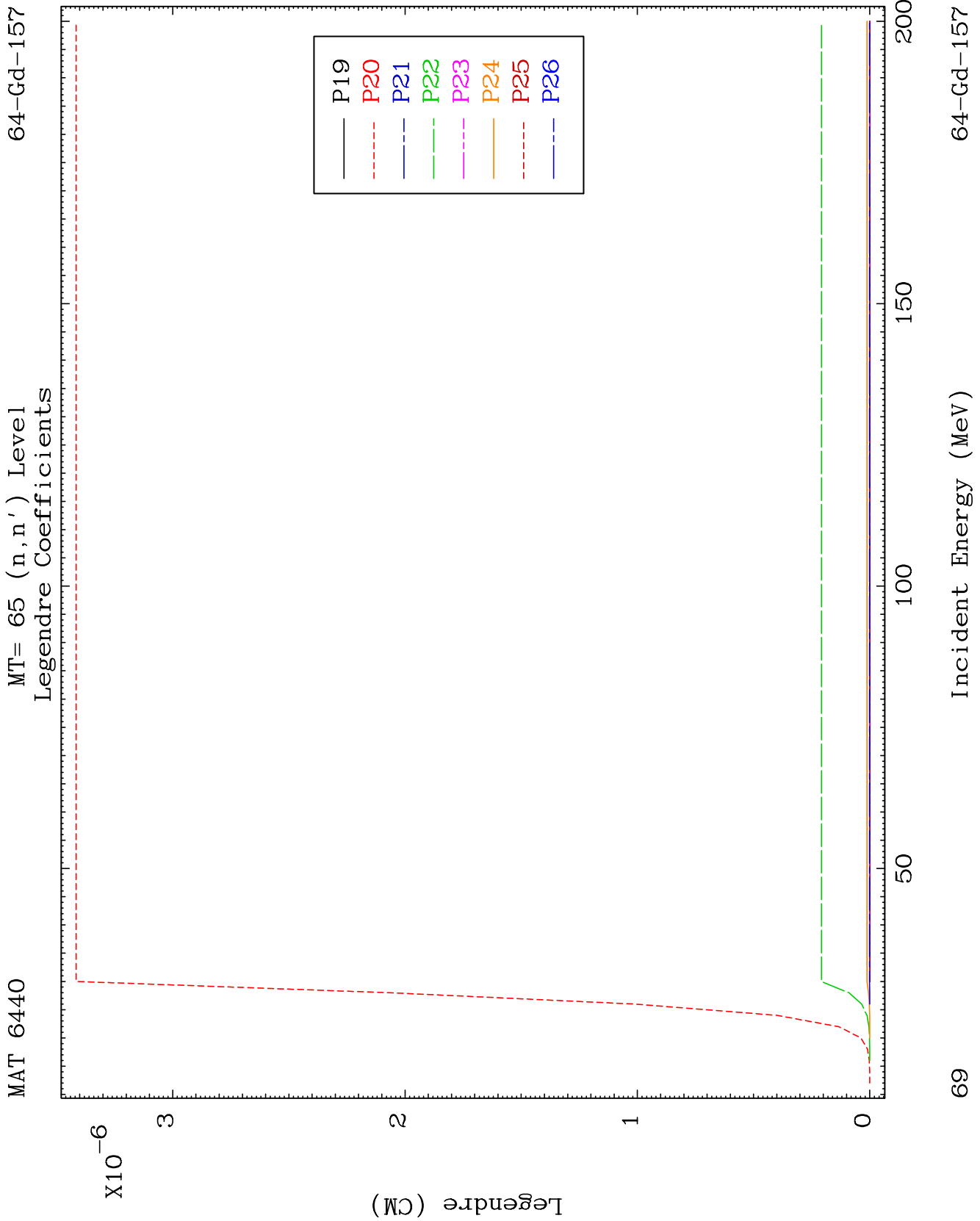
64-Gd-157



64-Gd-157

Incident Energy (MeV)

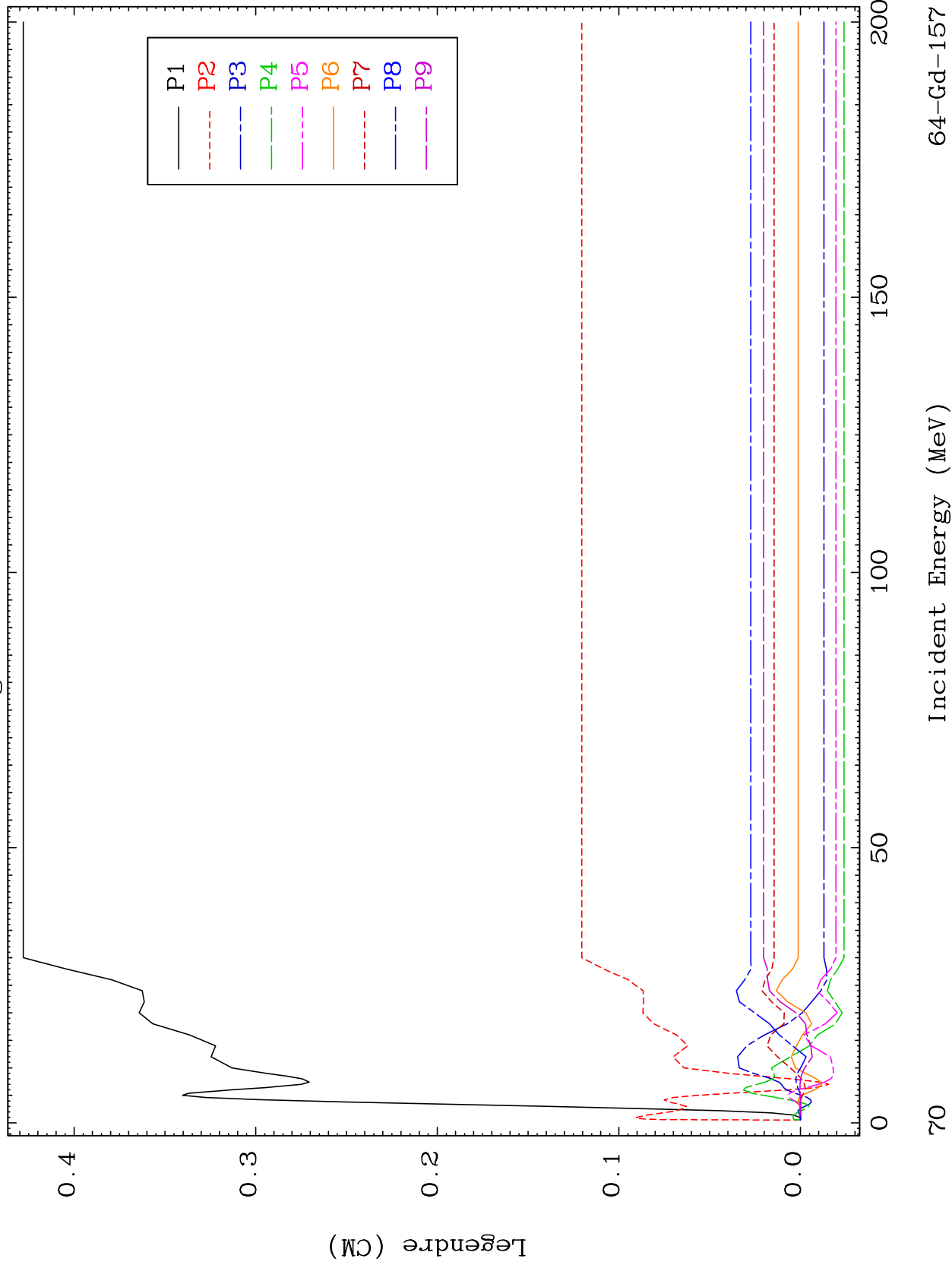
68



MAT 6440

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

64-Gd-157



64-Gd-157

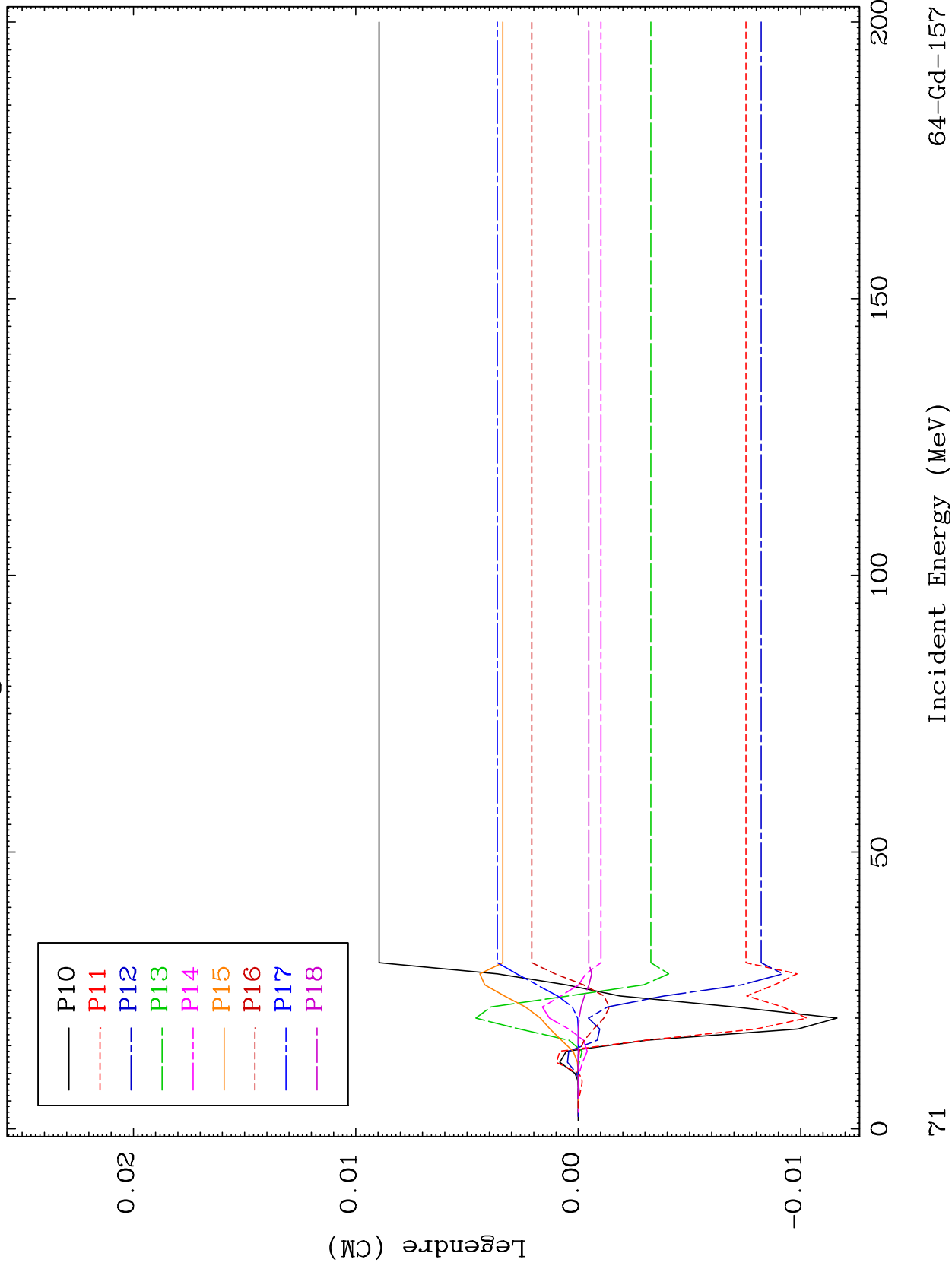
Incident Energy (MeV)

70

MAT 6440

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

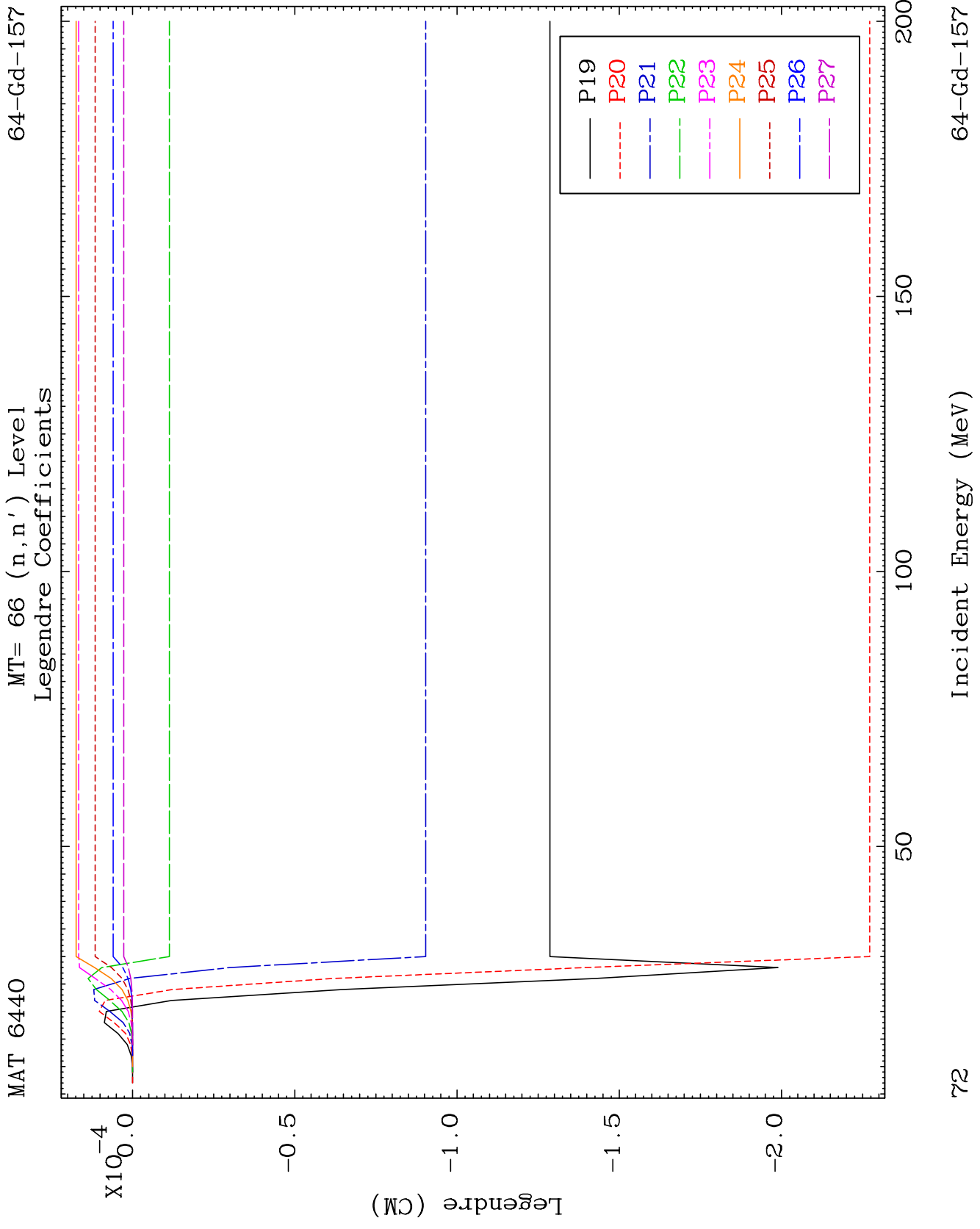
64-Gd-157



71

Incident Energy (MeV)

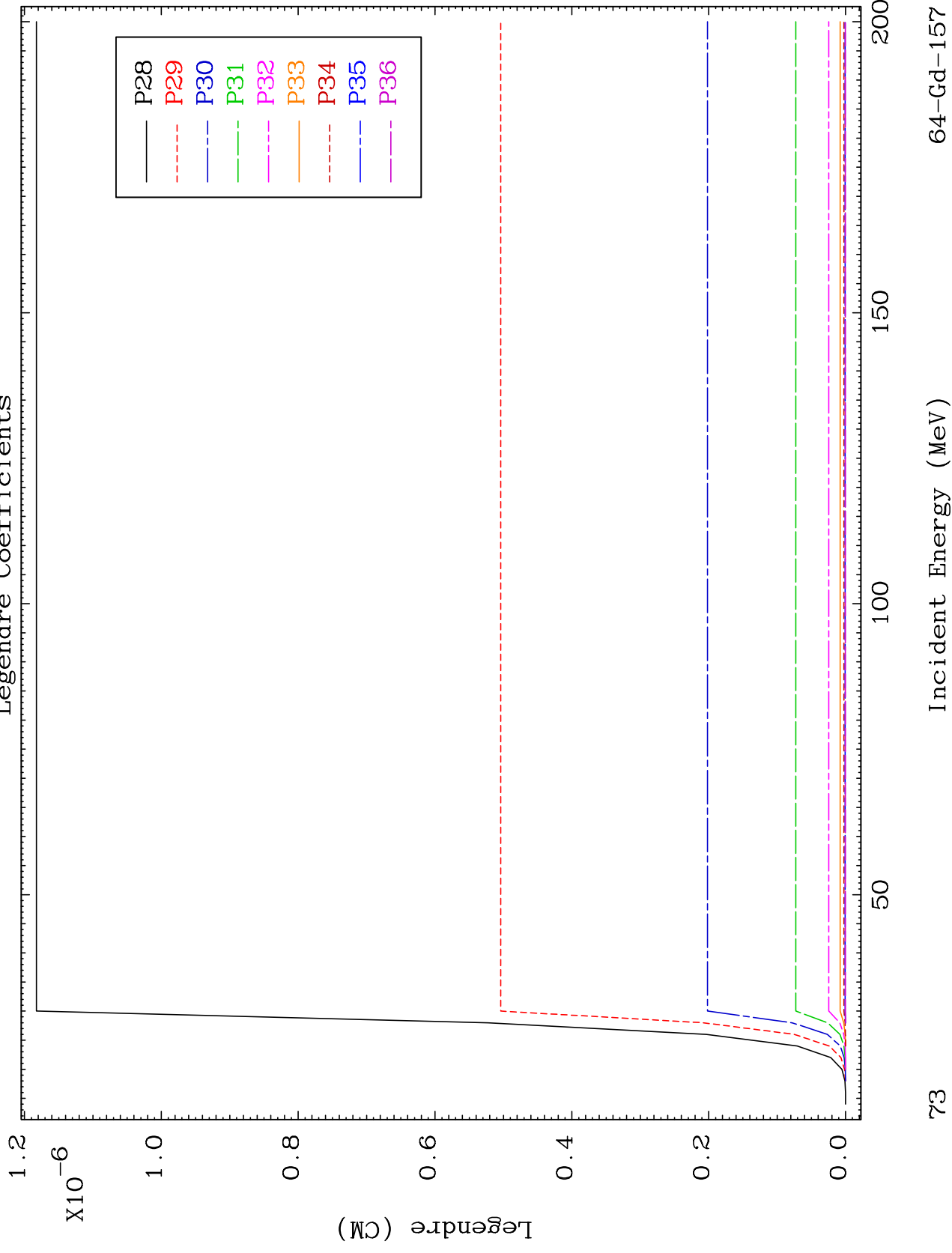
64-Gd-157



MAT 6440

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

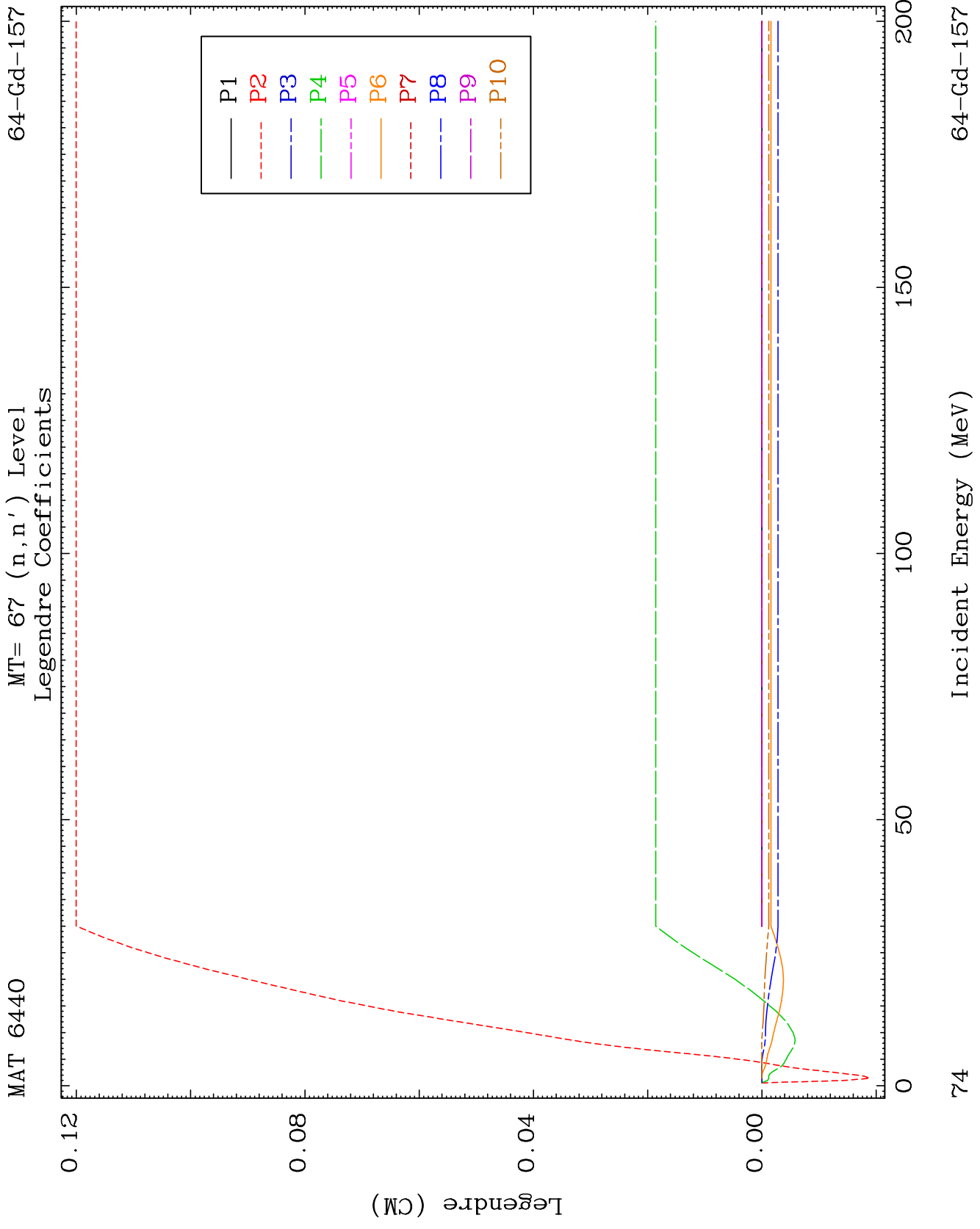
64-Gd-157

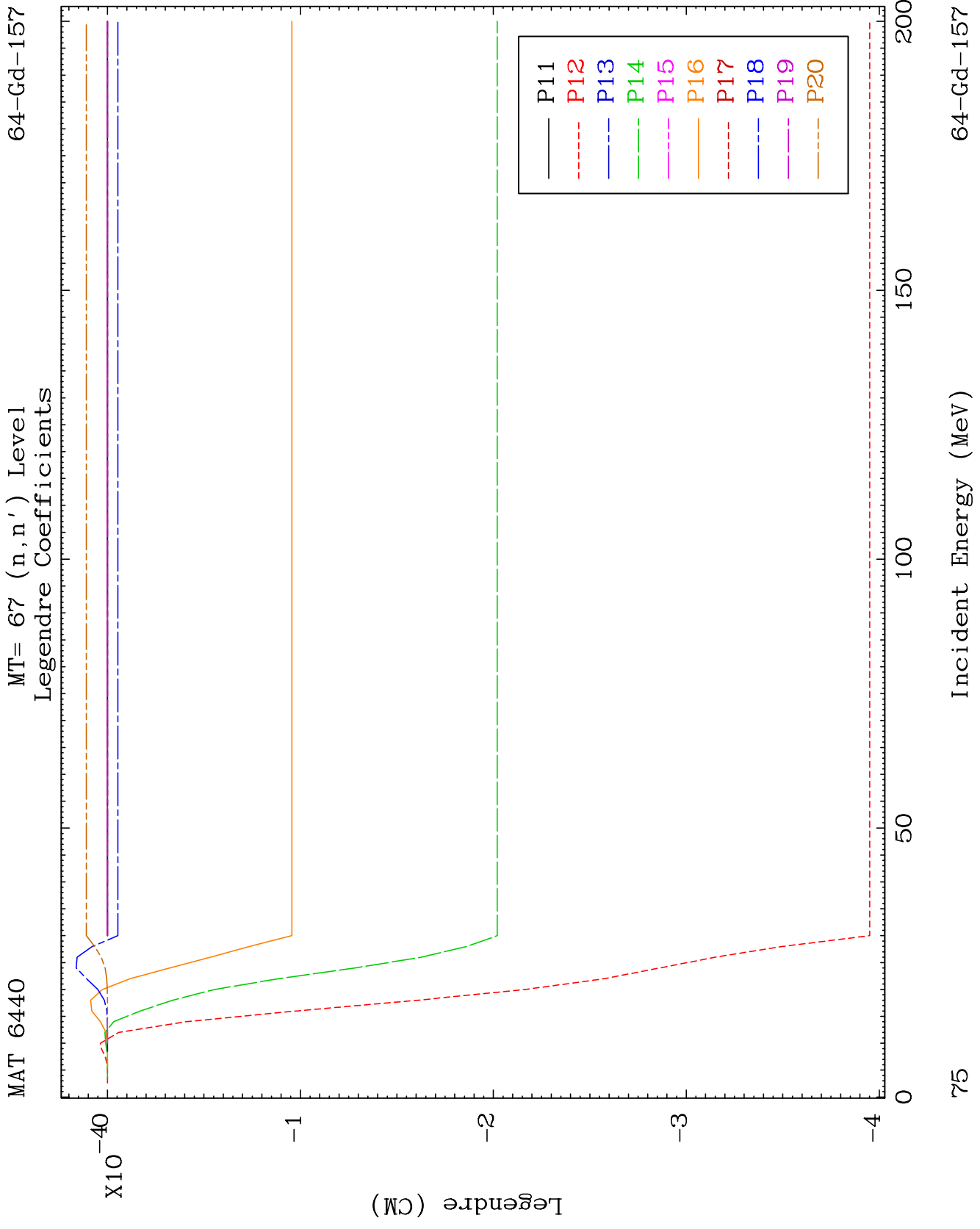


73

Incident Energy (MeV)

64-Gd-157

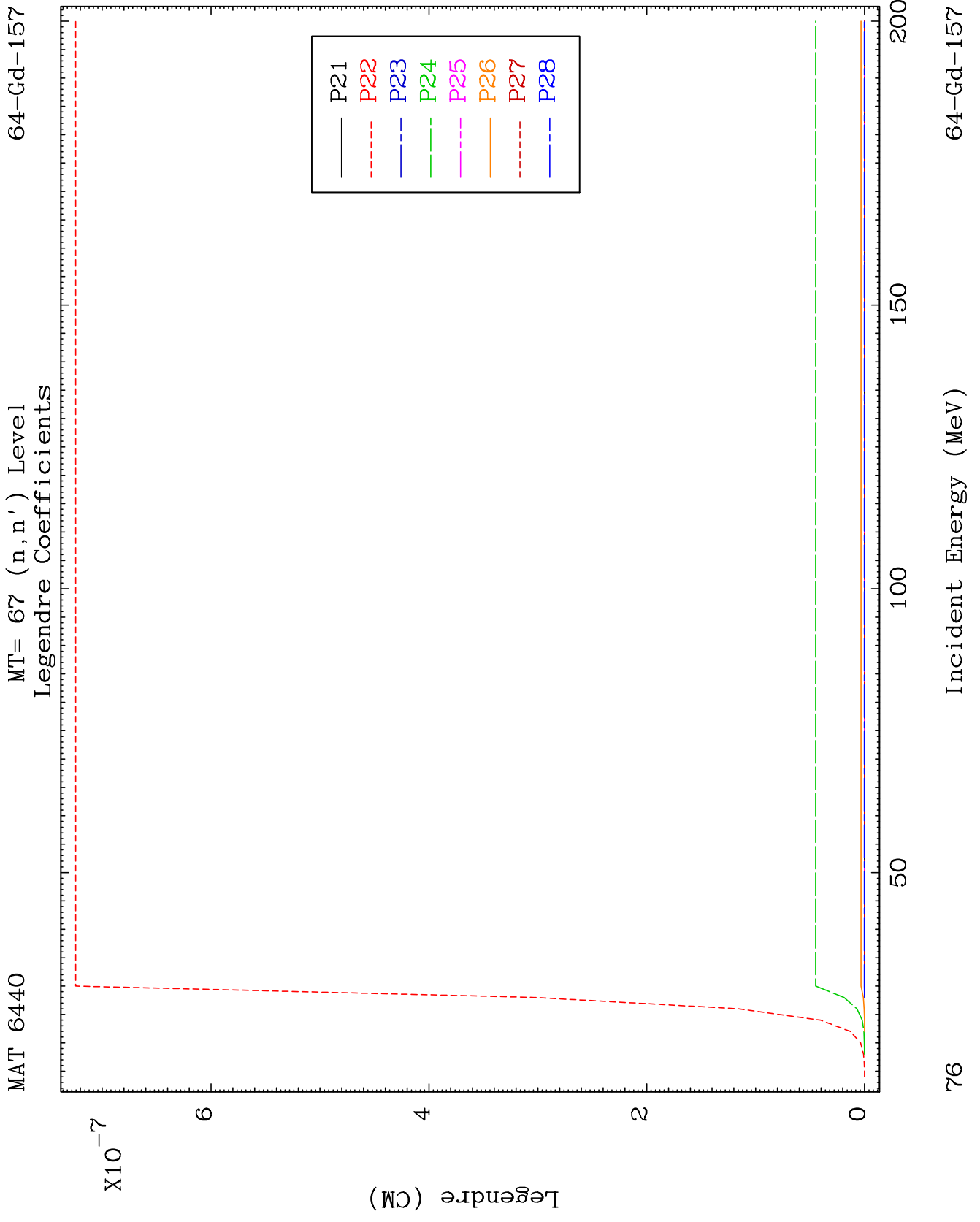


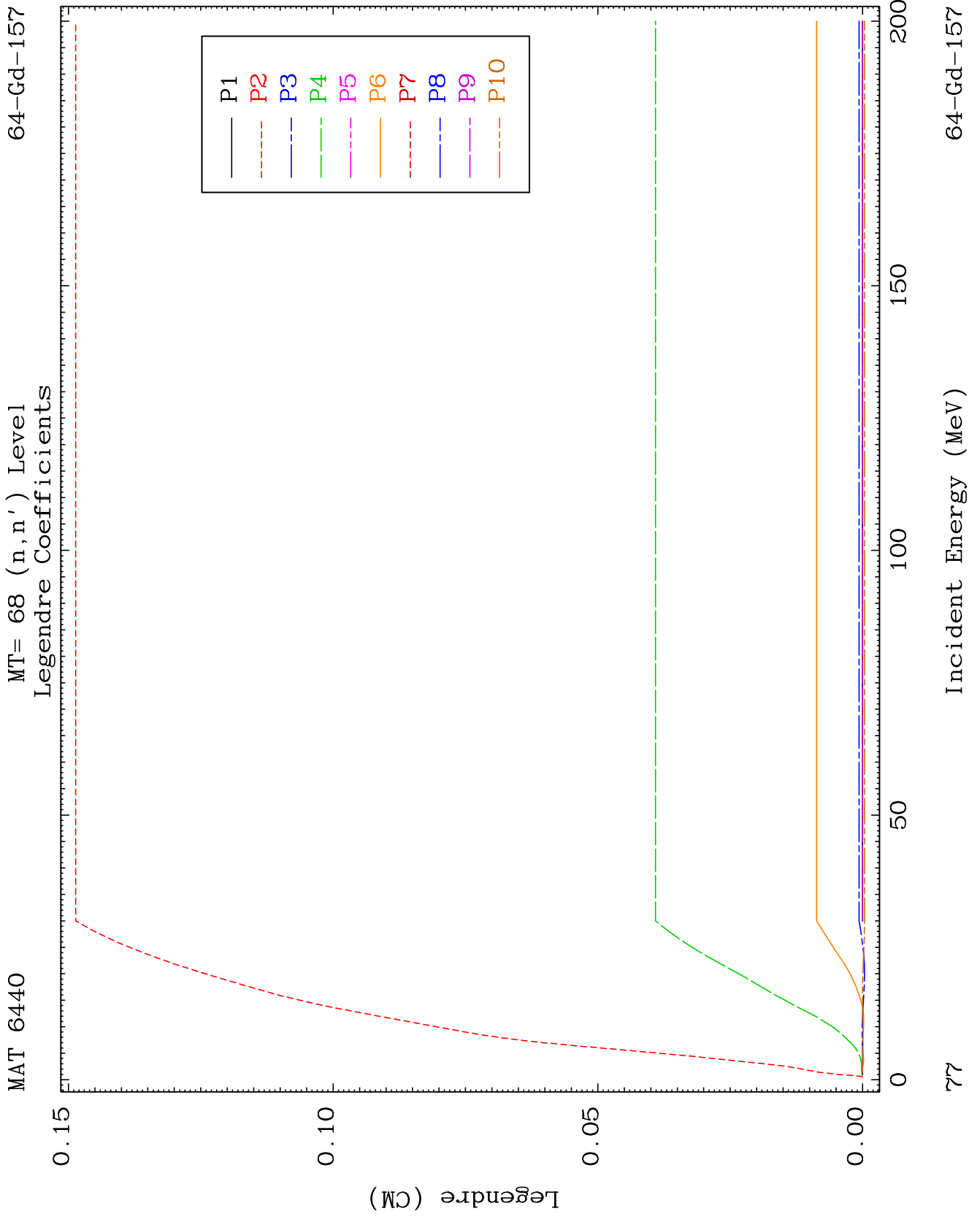


64-Gd-157

Incident Energy (MeV)

75

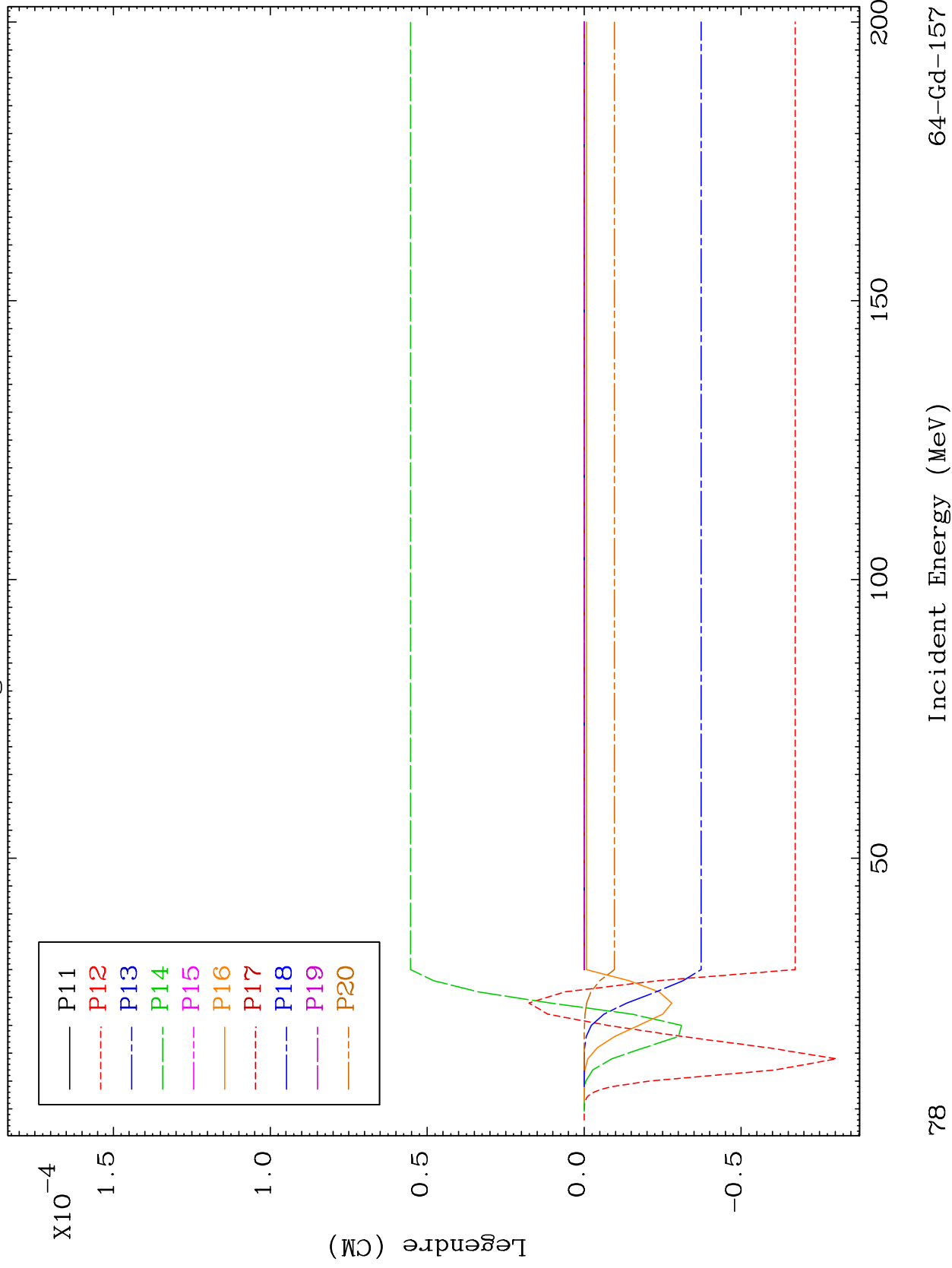




MAT 6440

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

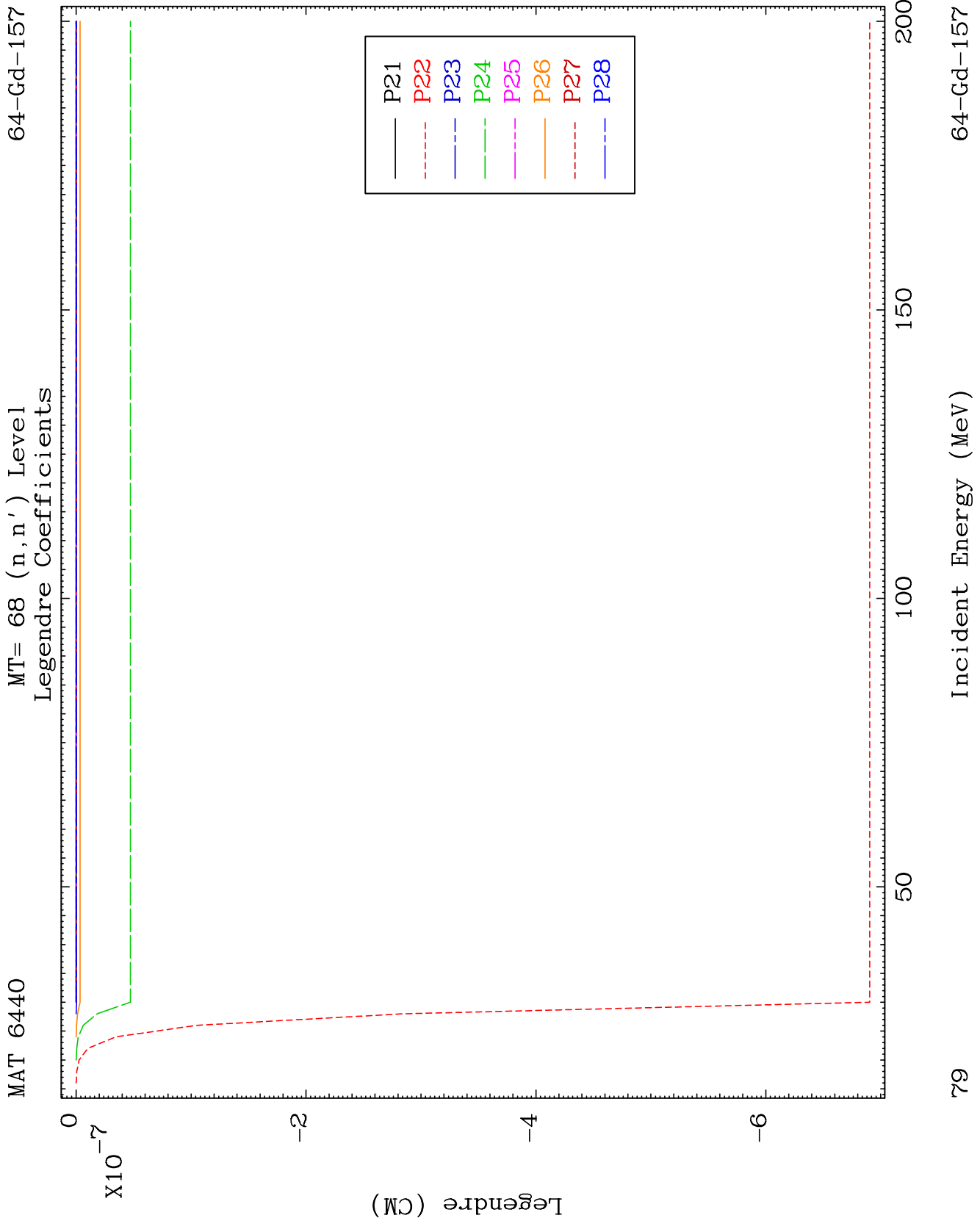
64-Gd-157

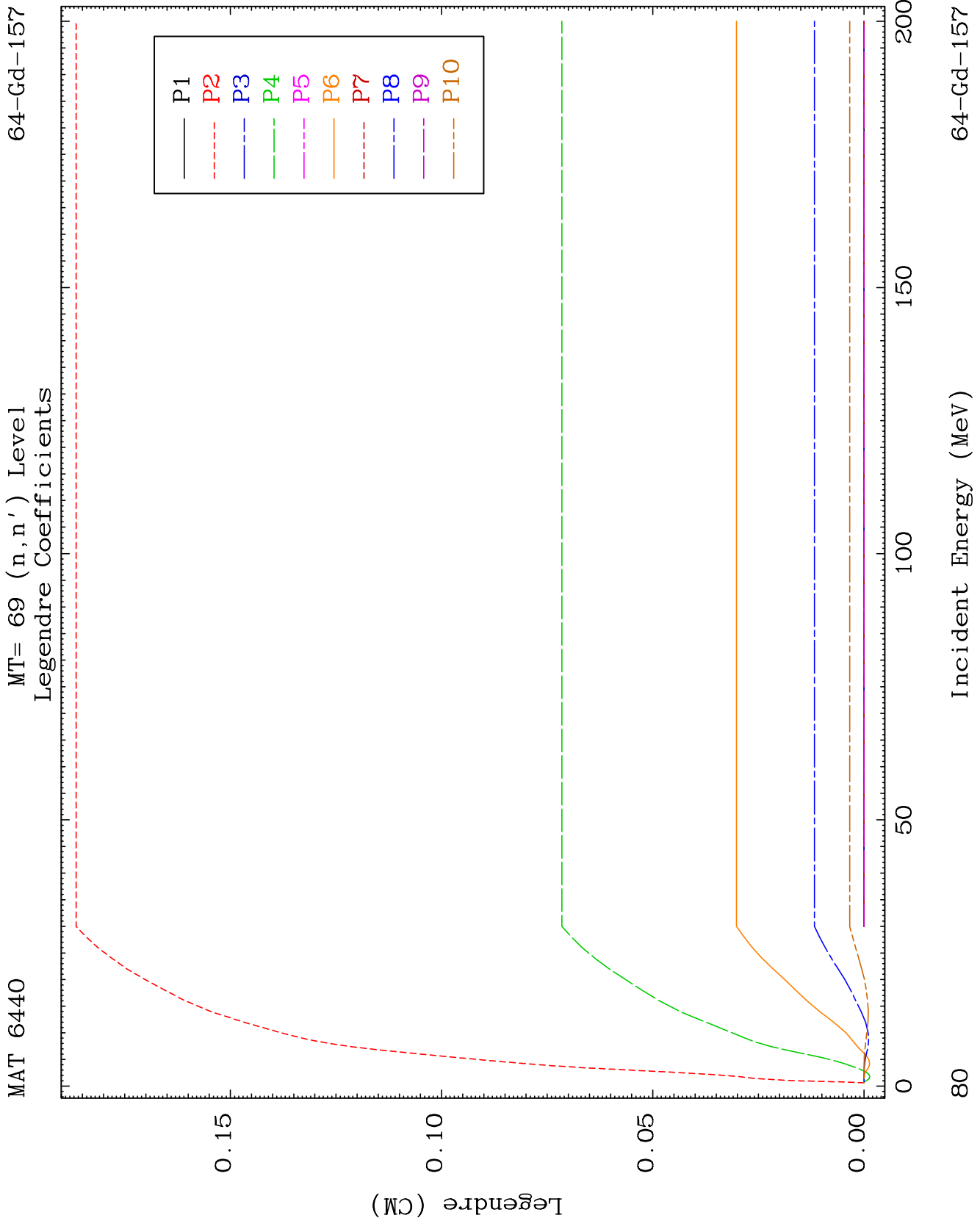


78

Incident Energy (MeV)

64-Gd-157

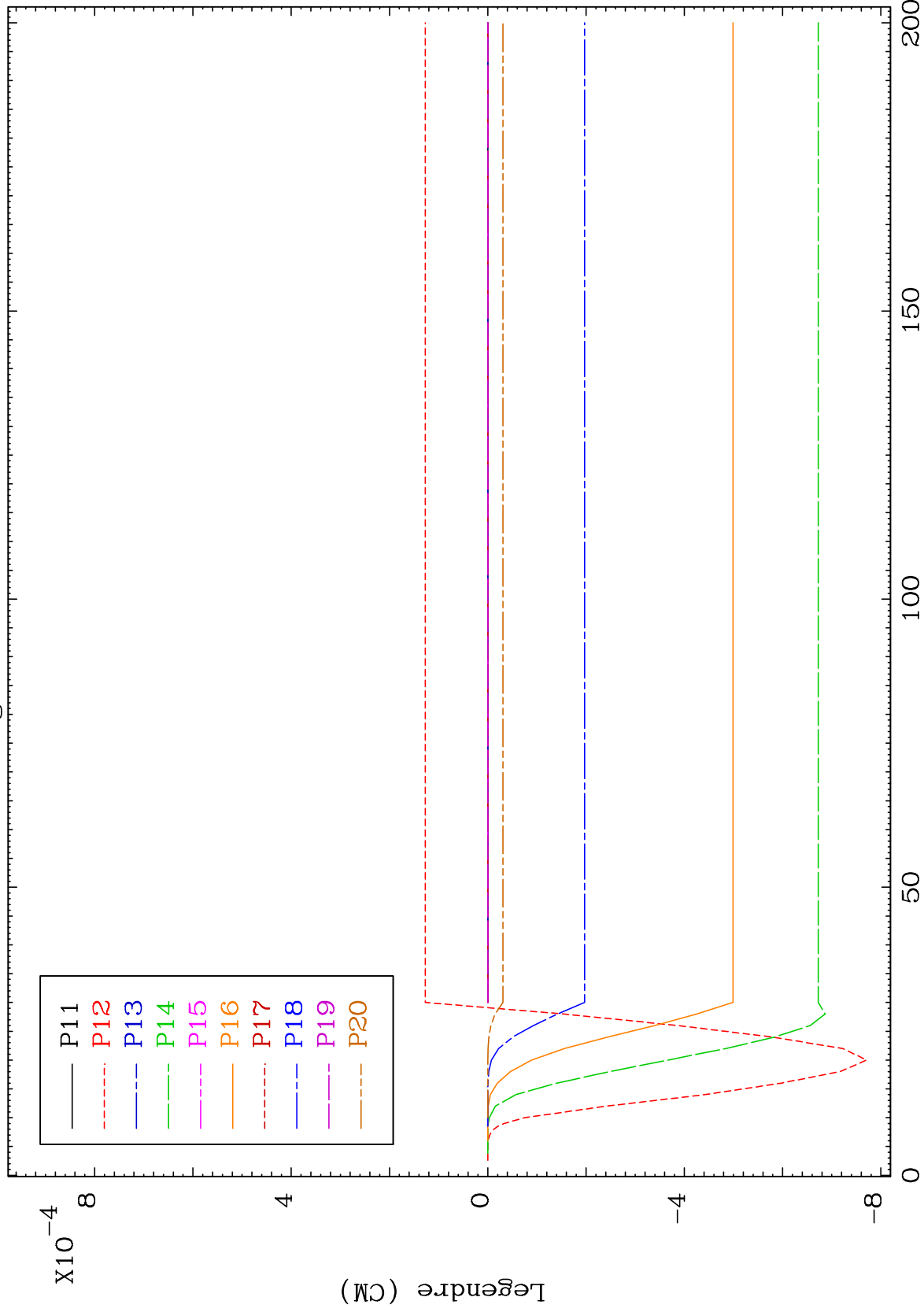




MAT 6440

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

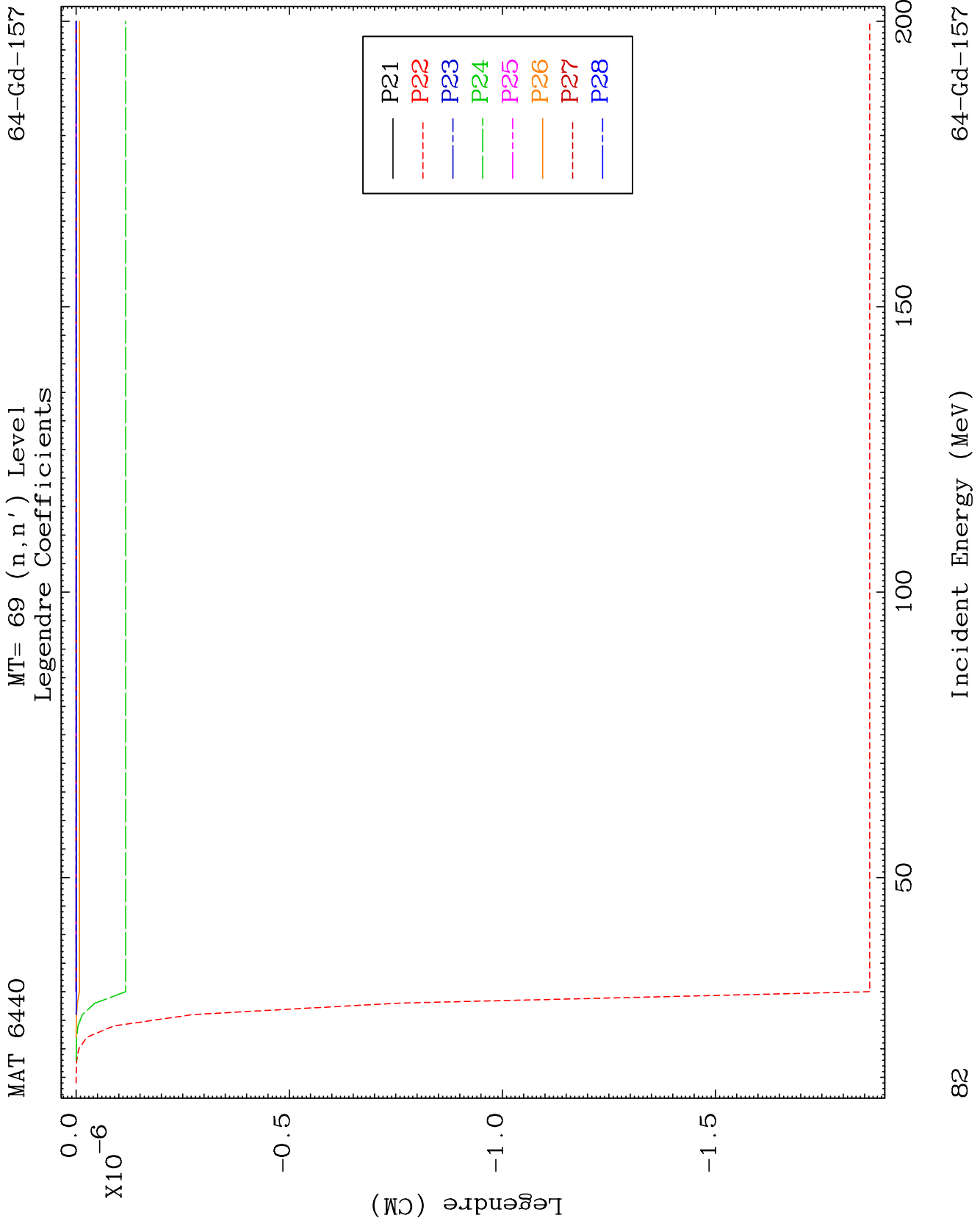
64-Gd-157

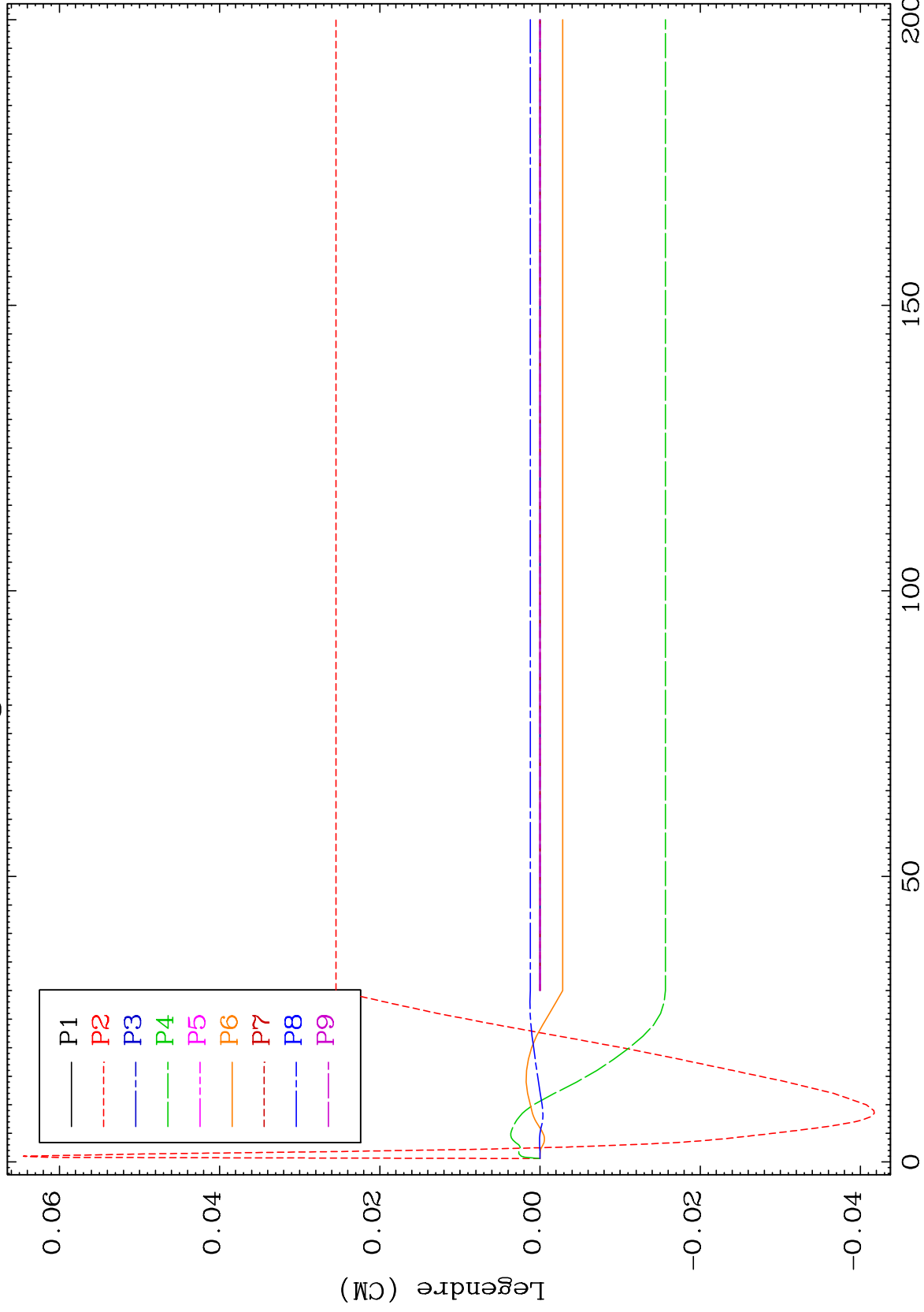


81

Incident Energy (MeV)

64-Gd-157

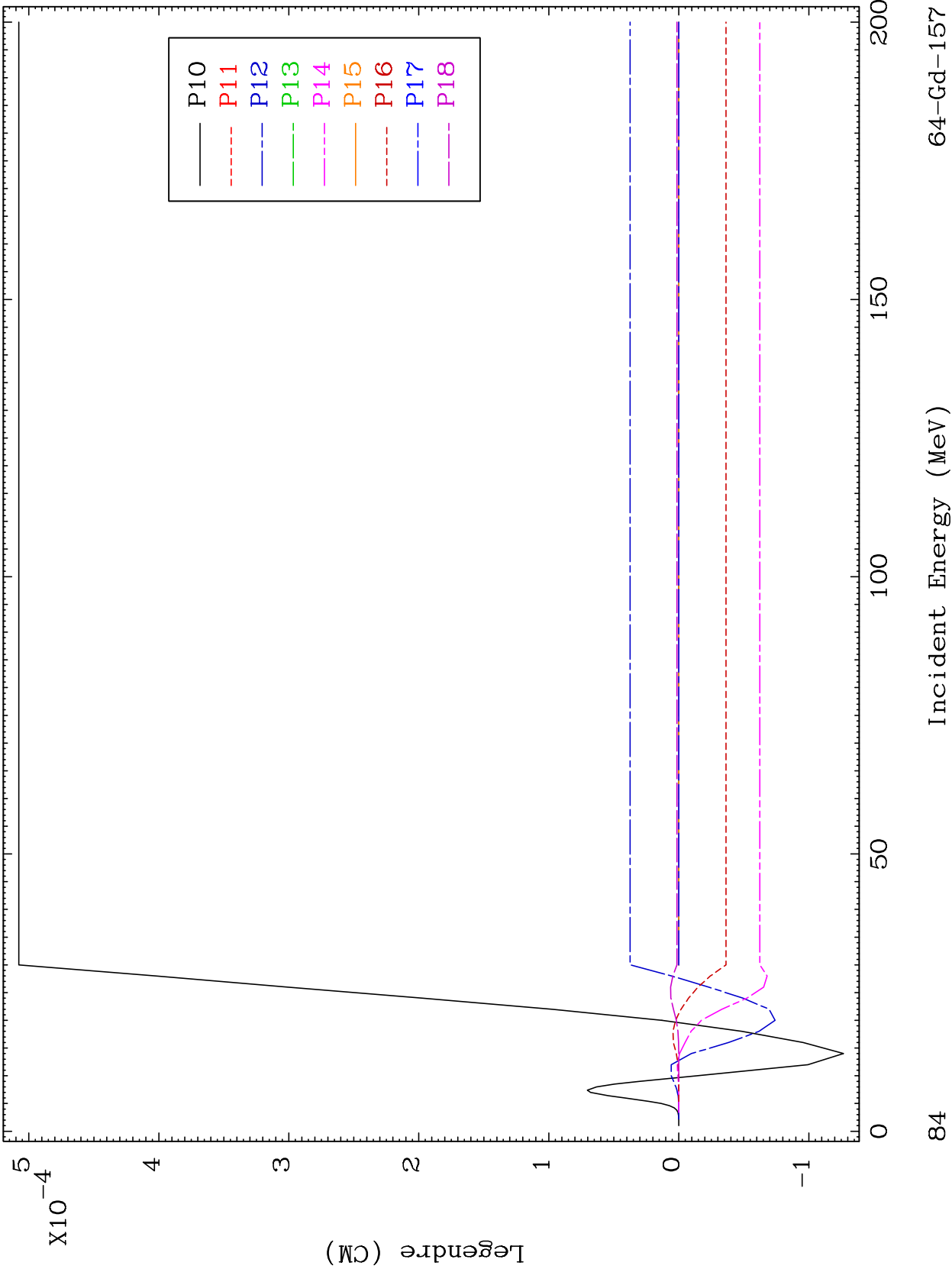




MAT 6440

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

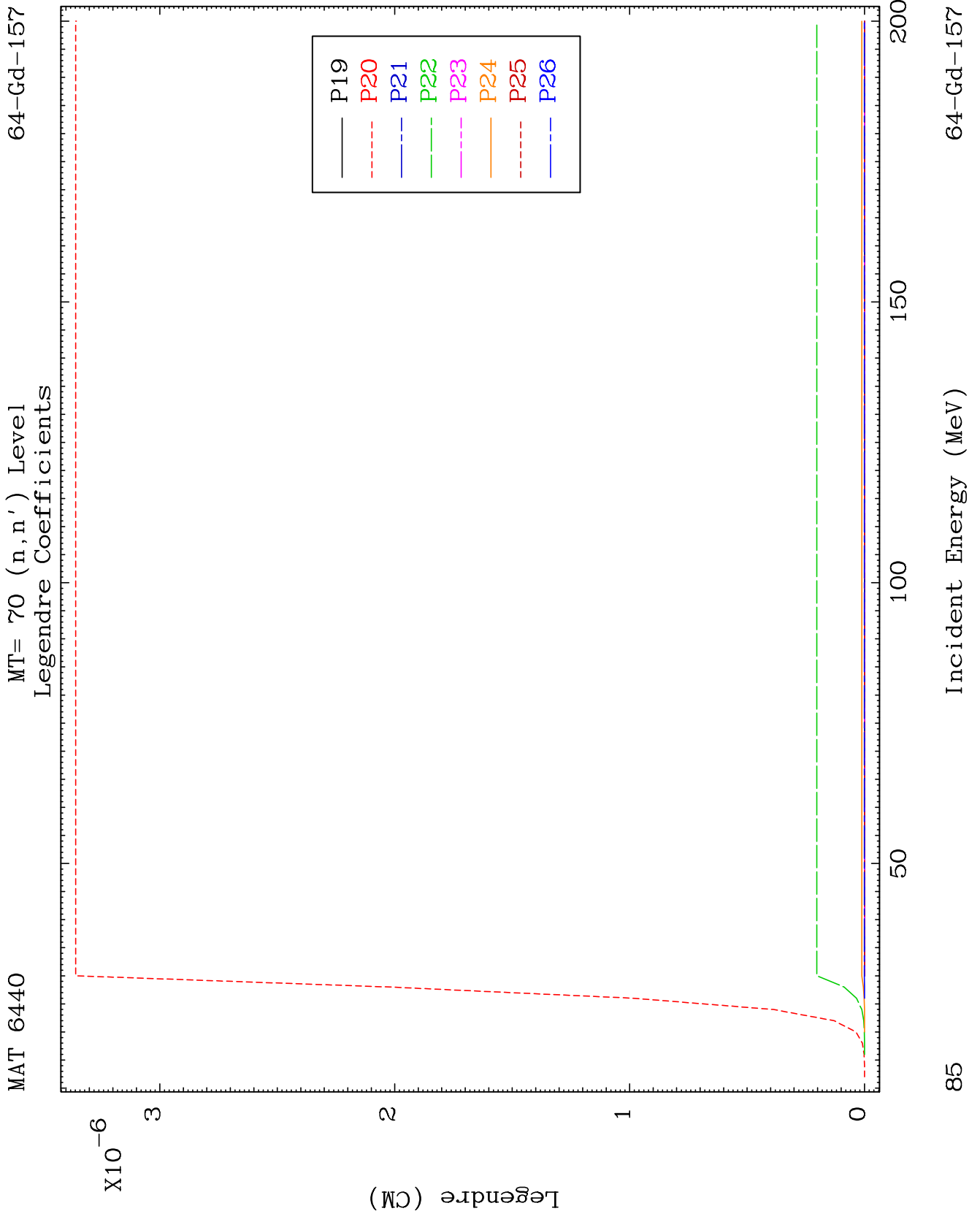
64-Gd-157



84

Incident Energy (MeV)

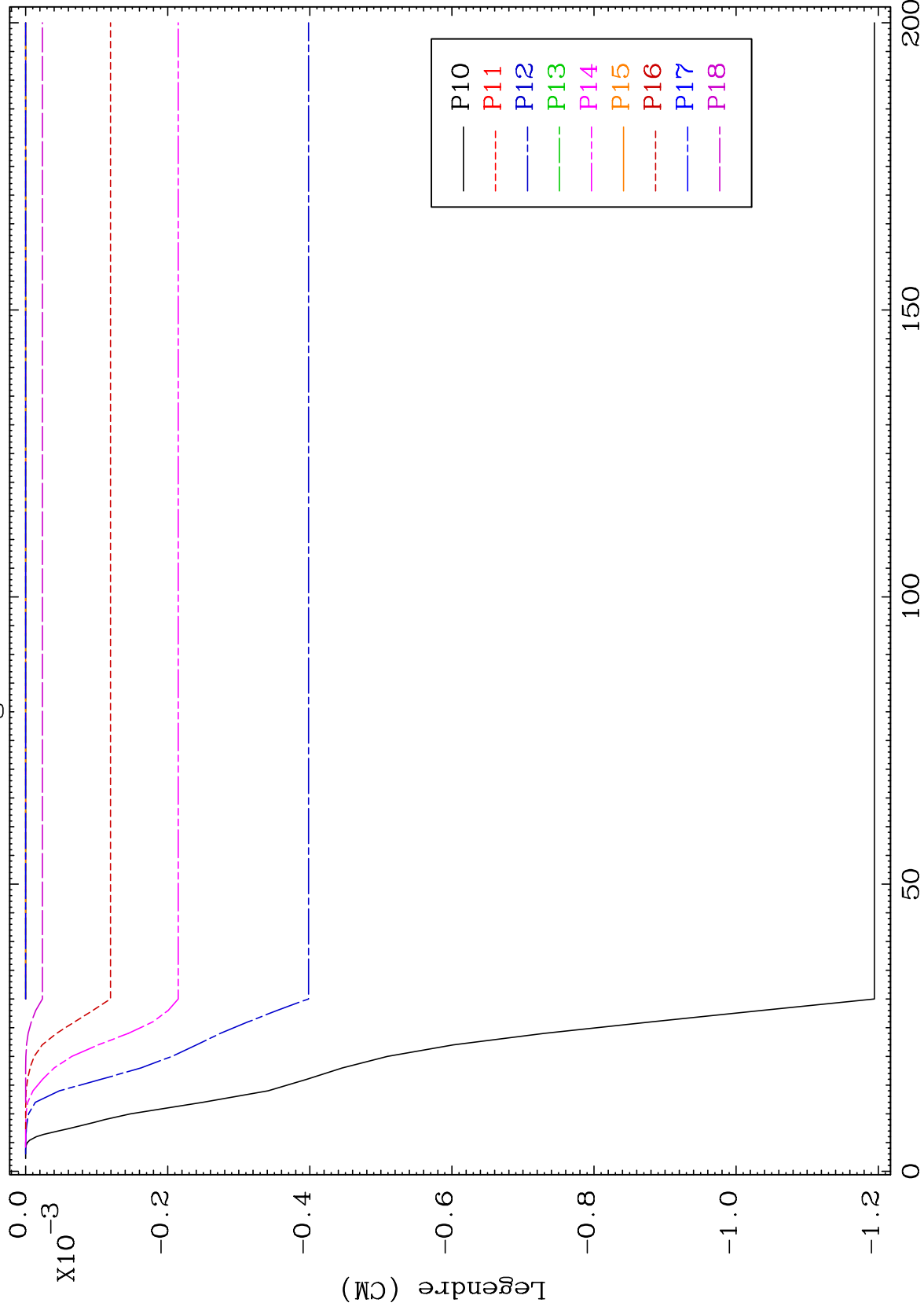
64-Gd-157



MAT 6440

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

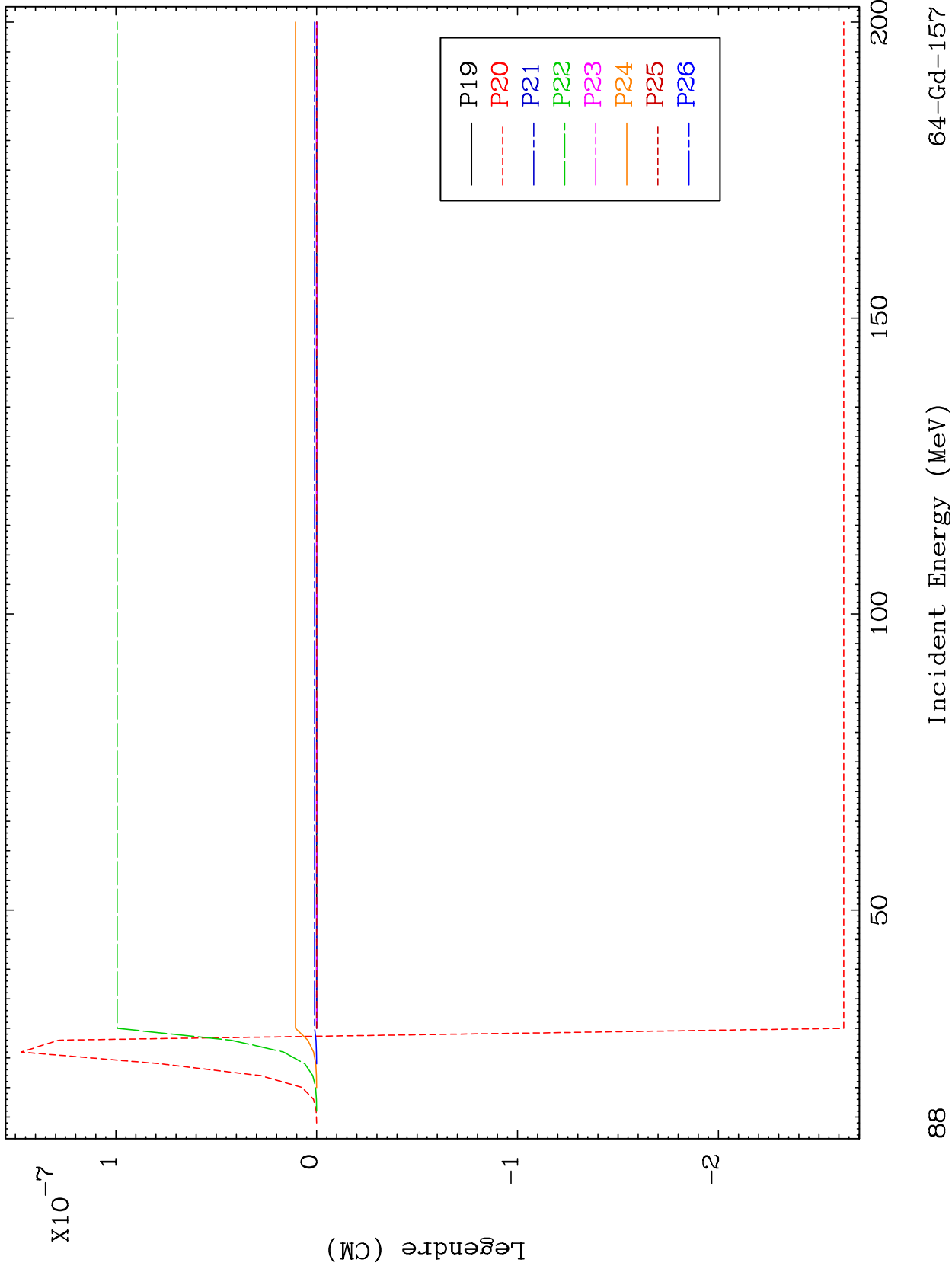
64-Gd-157



87

Incident Energy (MeV)

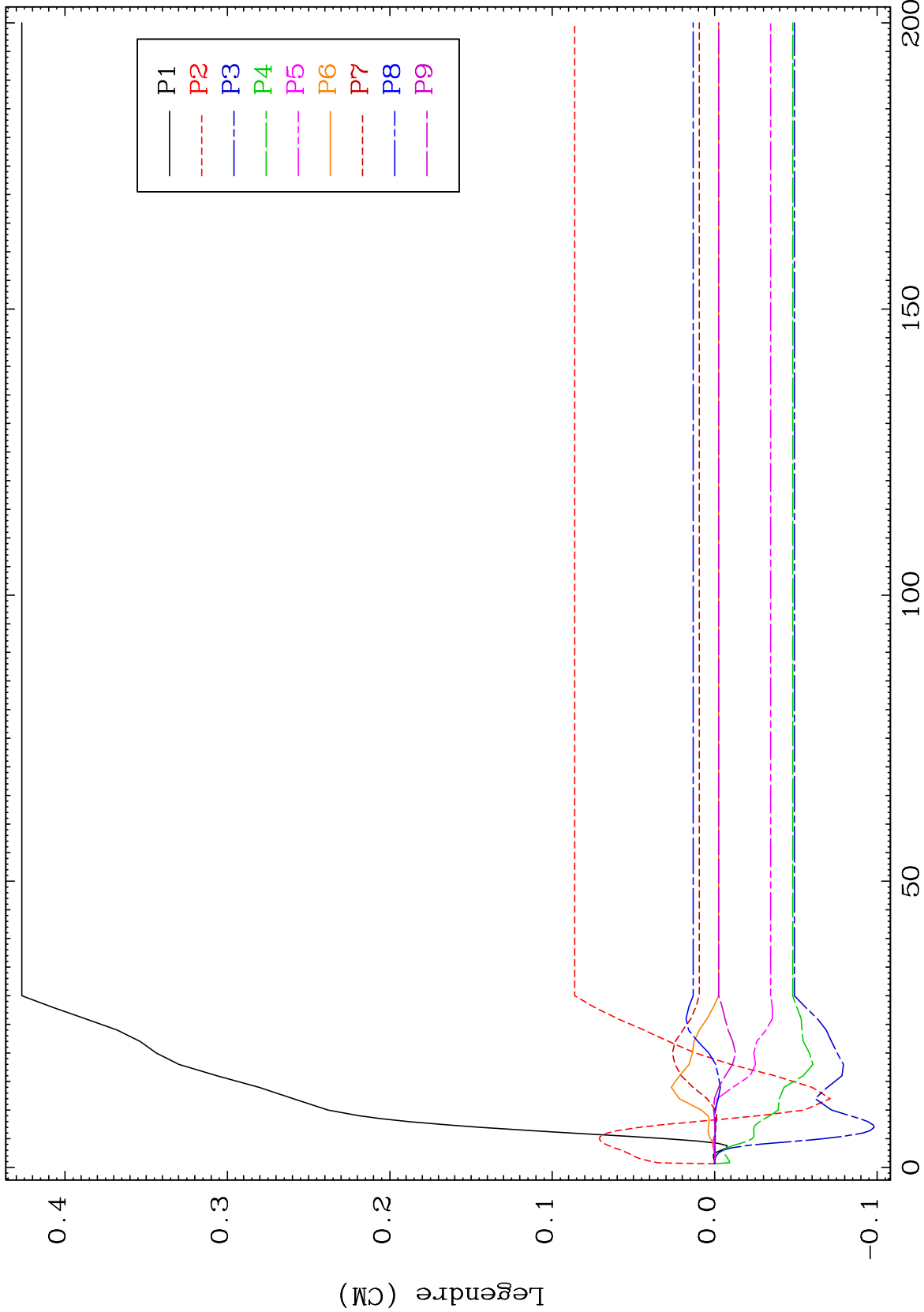
64-Gd-157



MAT 6440

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

64-Gd-157



89

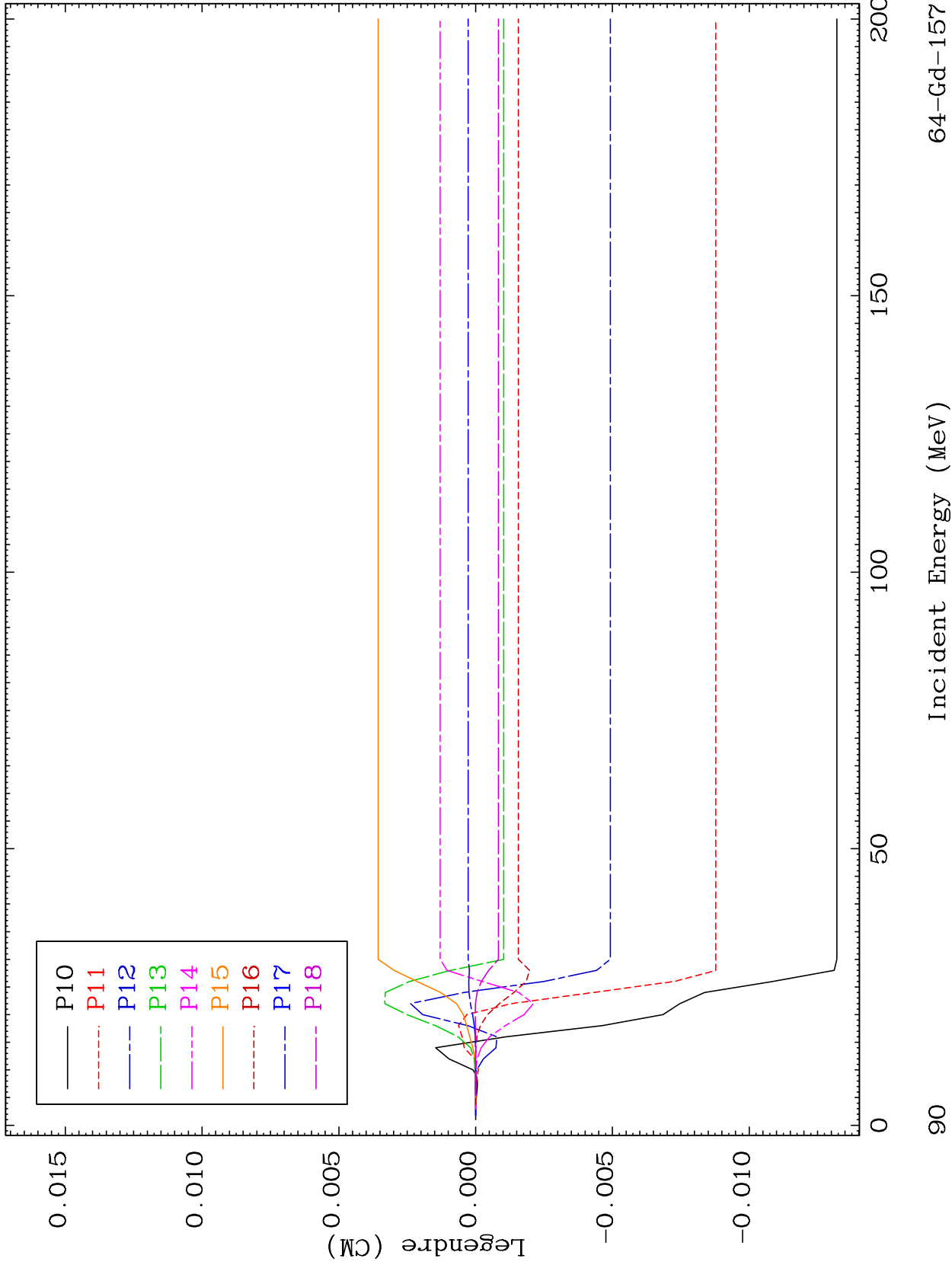
Incident Energy (MeV)

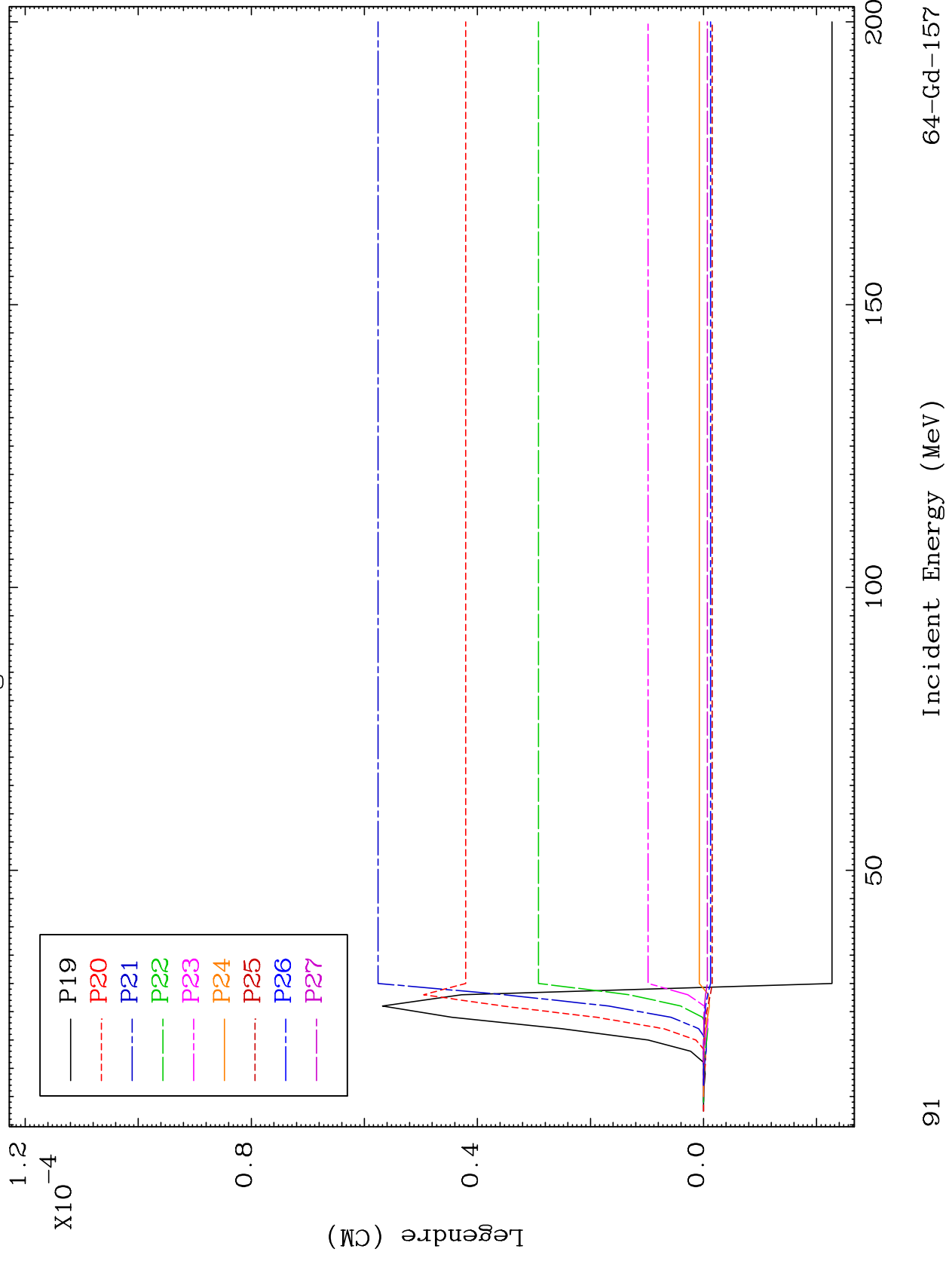
64-Gd-157

MAT 6440

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

64-Gd-157



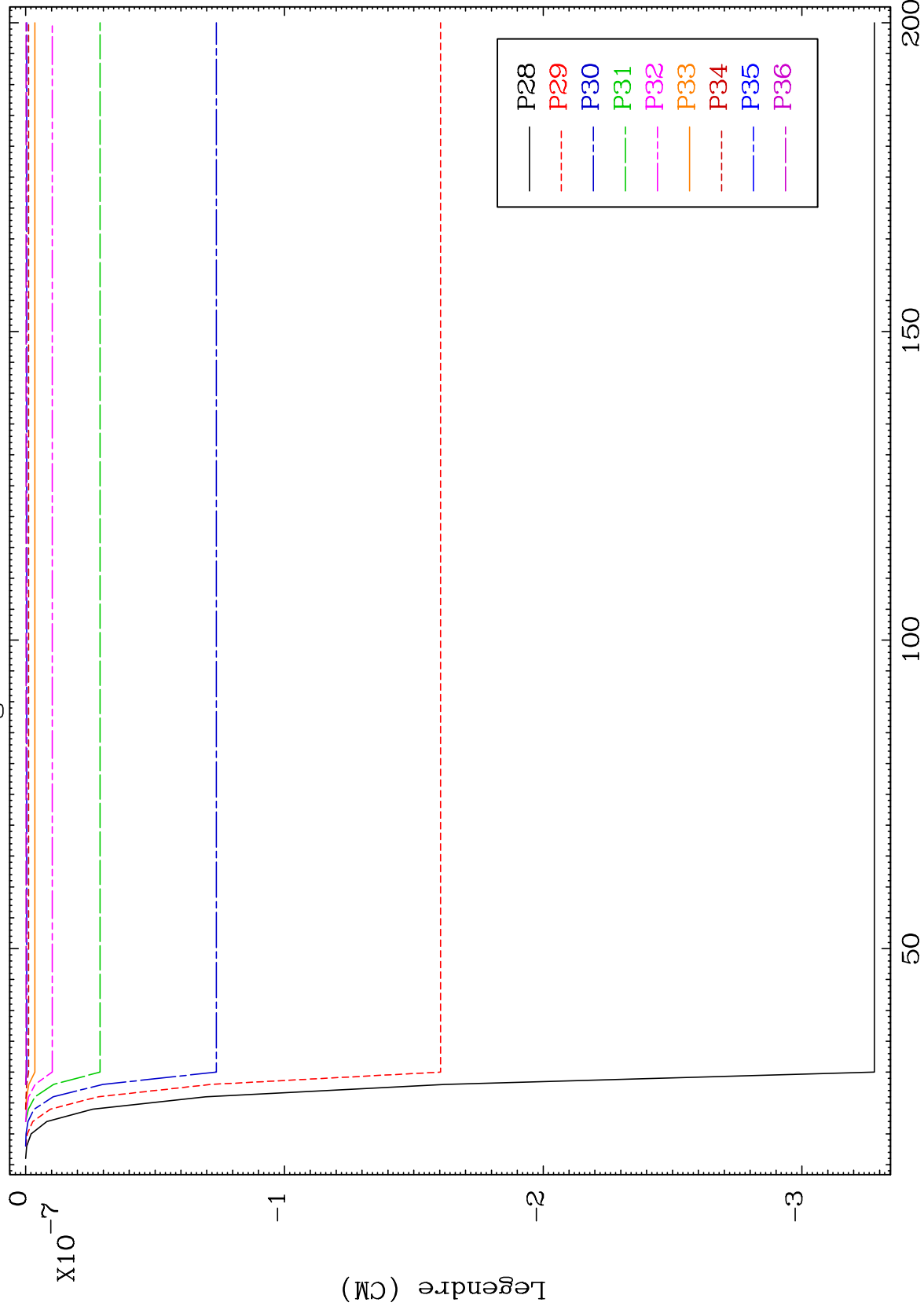


MAT 6440

MT= 72 (n,n') Level

64-Gd-157

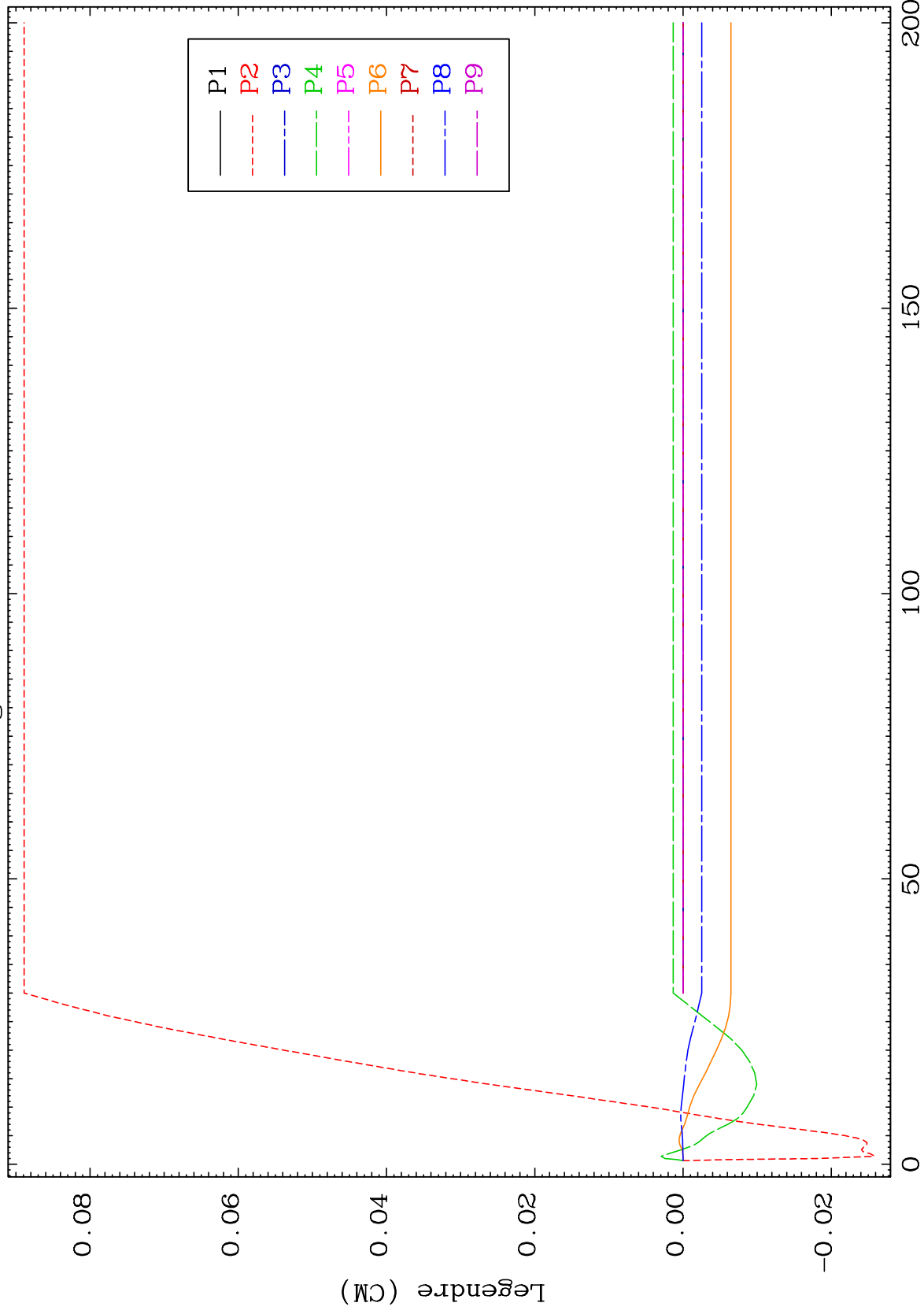
Legendre Coefficients



MAT 6440

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

64-Gd-157



93

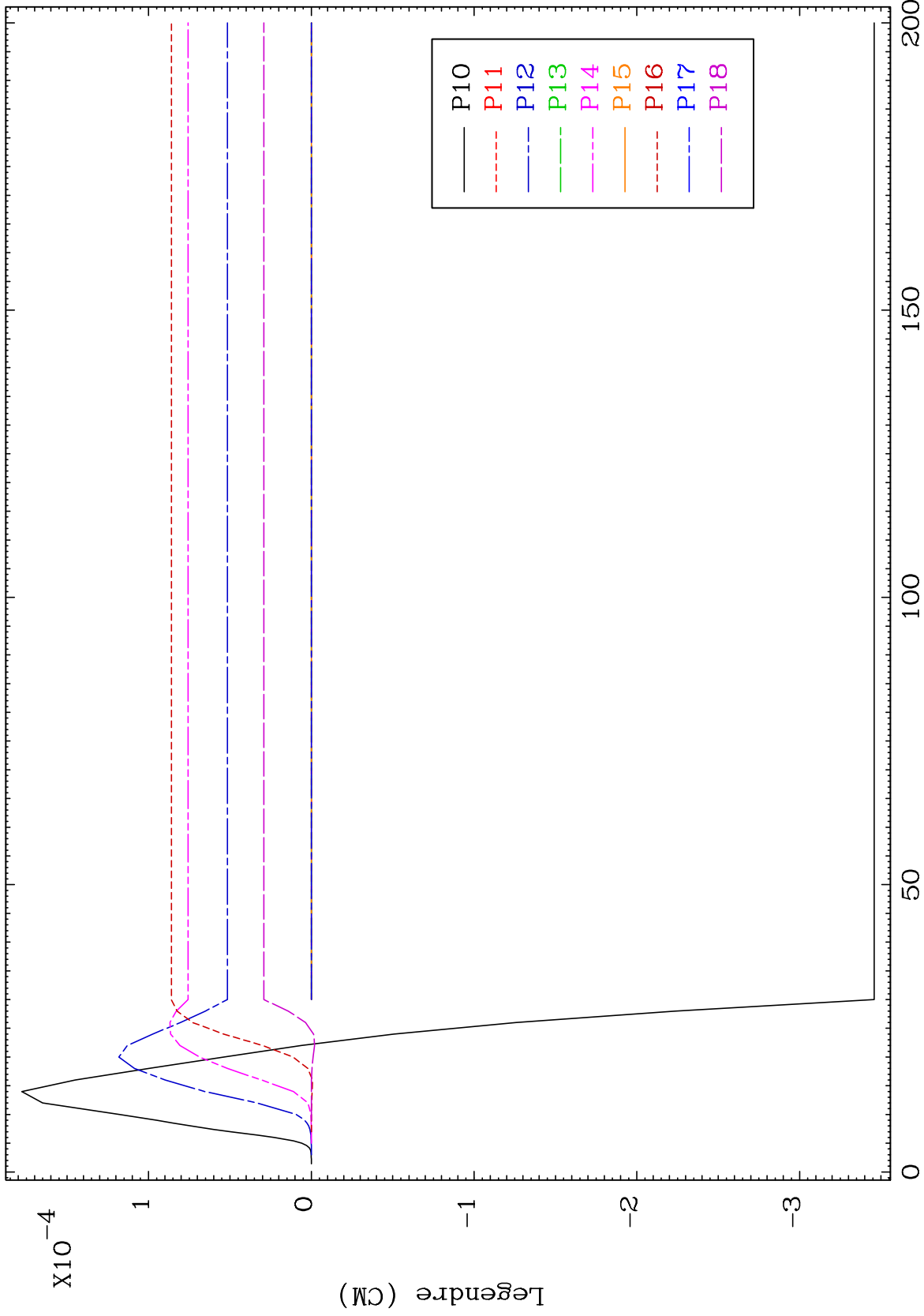
Incident Energy (MeV)

64-Gd-157

MAT 6440

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

64-Gd-157



94

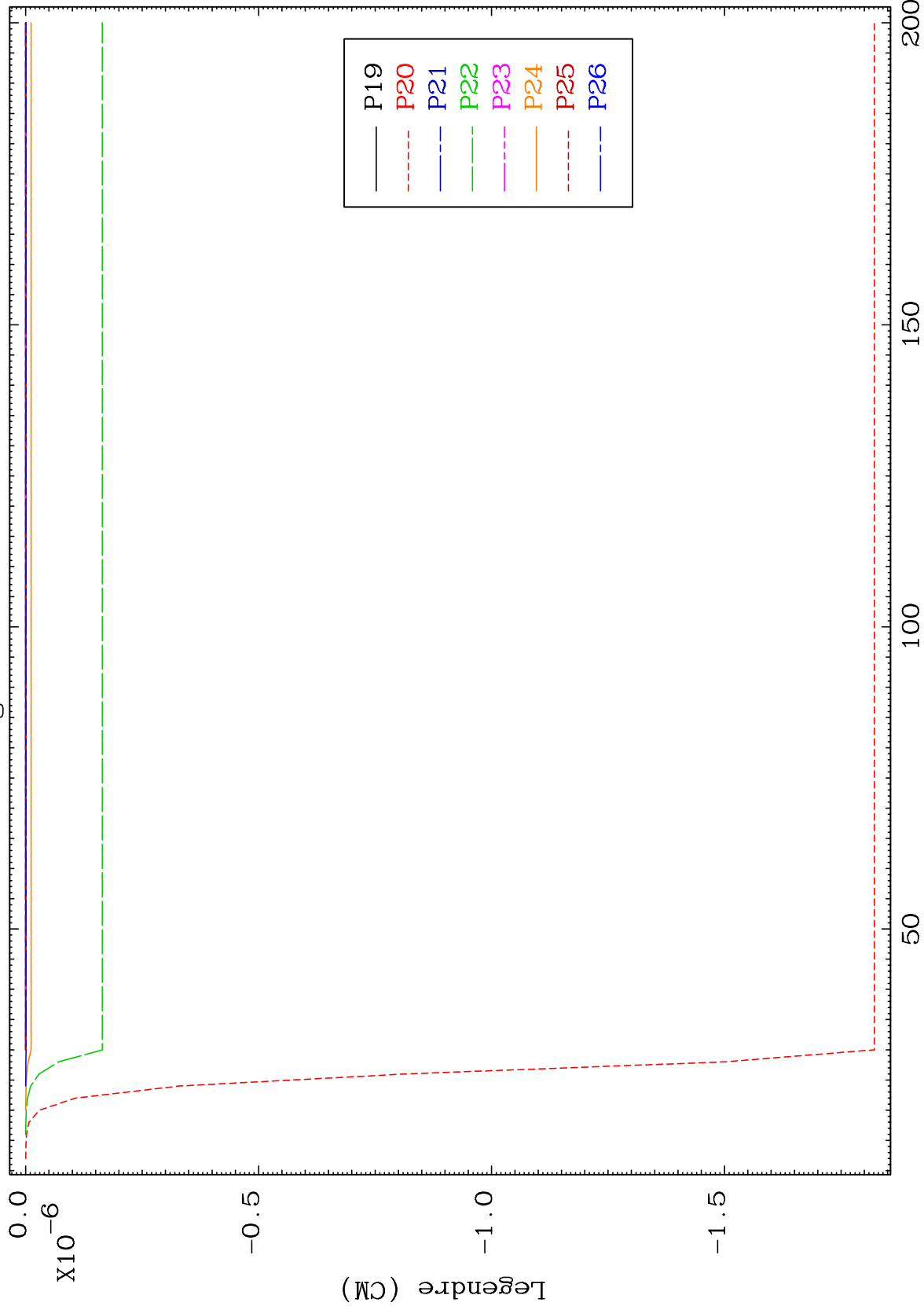
Incident Energy (MeV)

64-Gd-157

MAT 6440

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

64-Gd-157



64-Gd-157

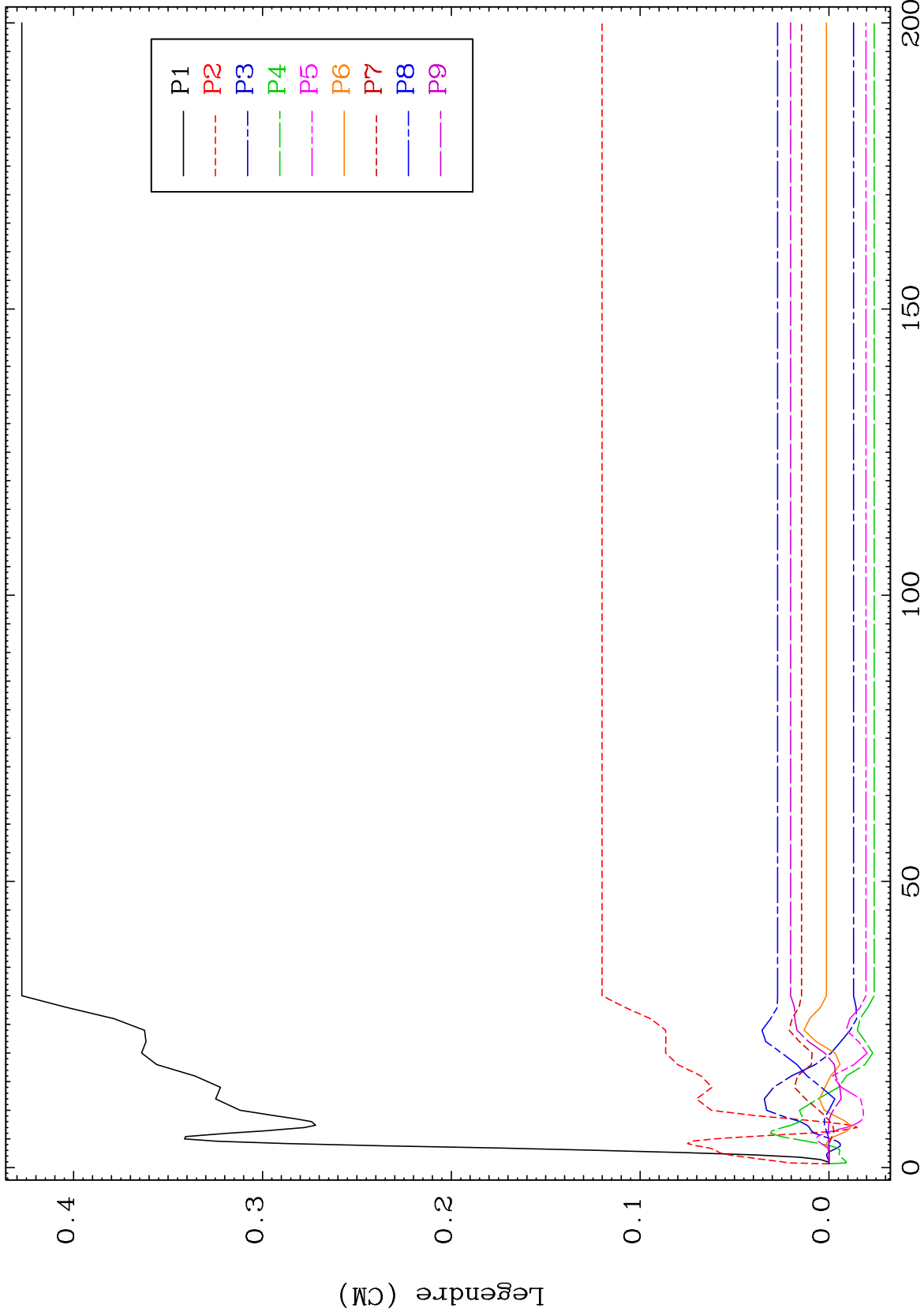
Incident Energy (MeV)

95

MAT 6440

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

64-Gd-157



96

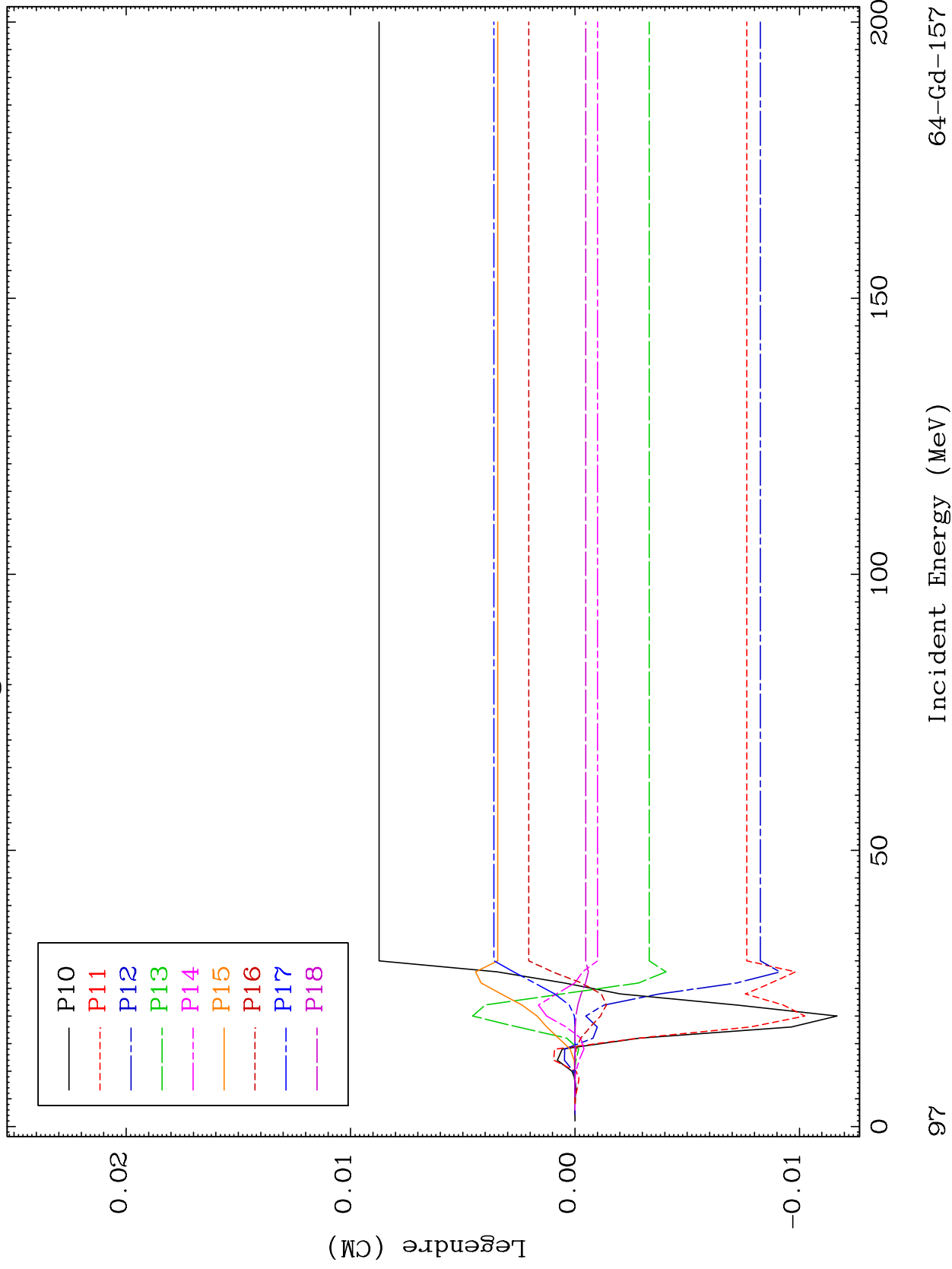
Incident Energy (MeV)

64-Gd-157

MAT 6440

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

64-Gd-157



97

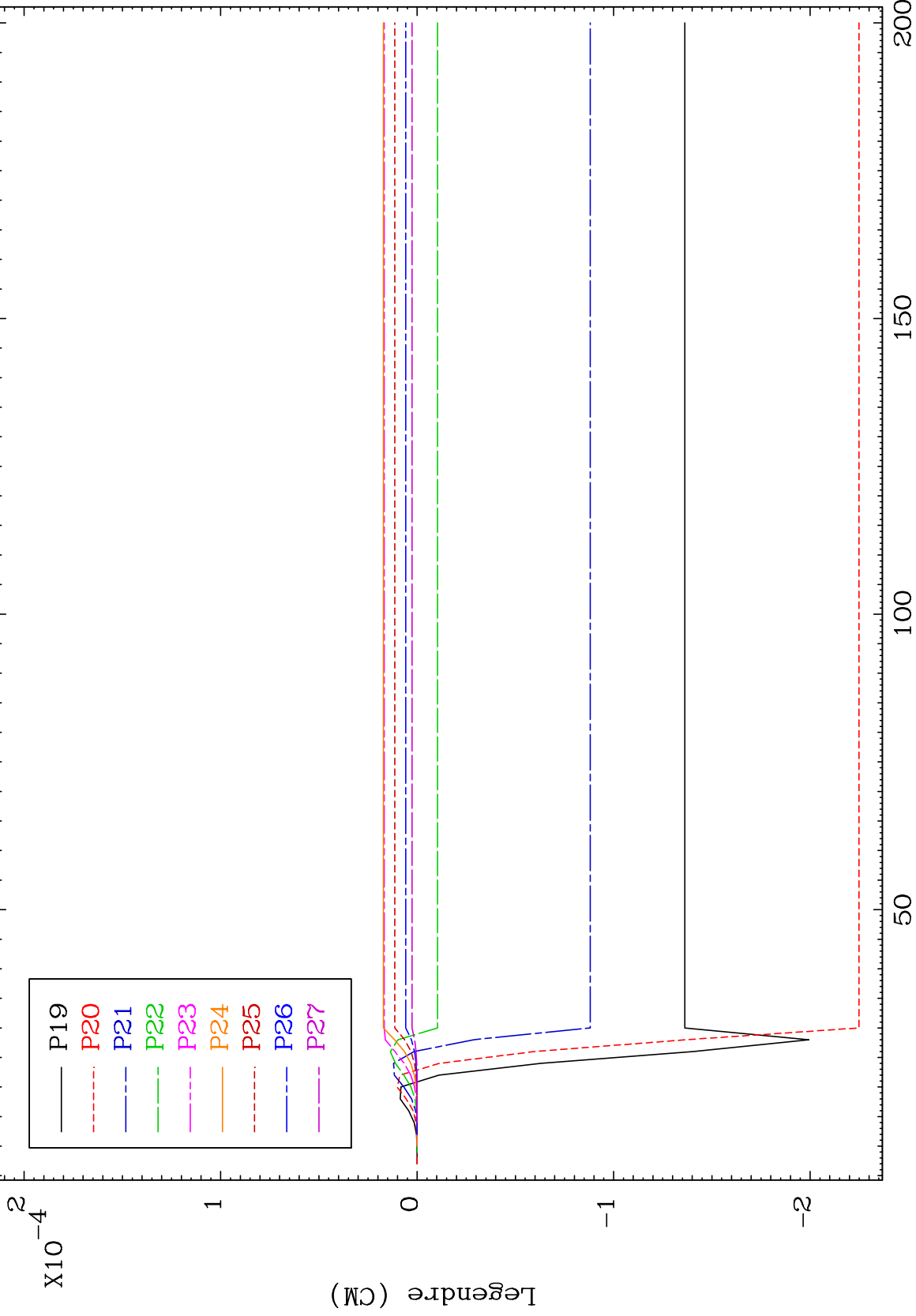
Incident Energy (MeV)

64-Gd-157

MAT 6440

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

64-Gd-157



98

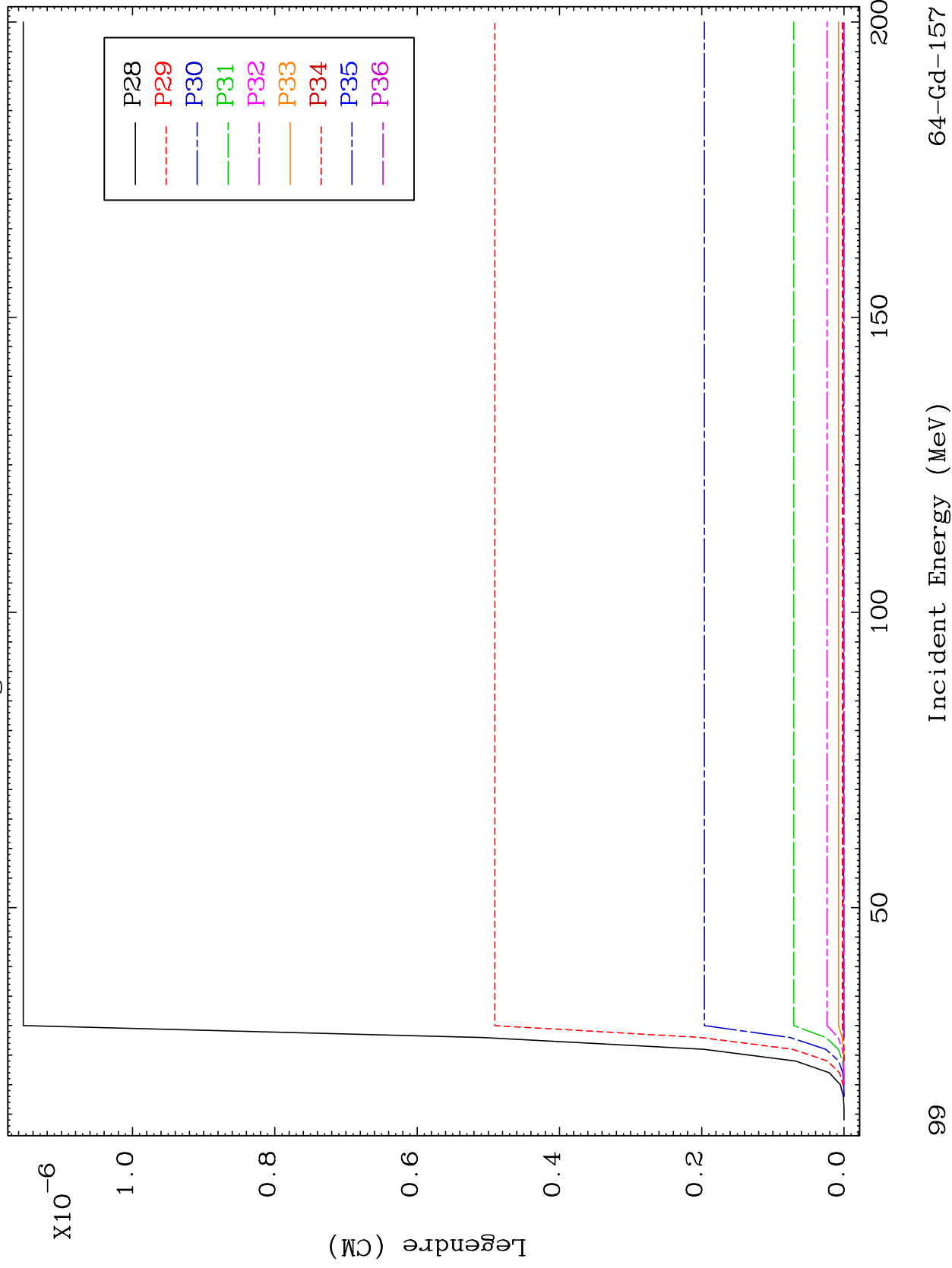
Incident Energy (MeV)

64-Gd-157

MAT 6440

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

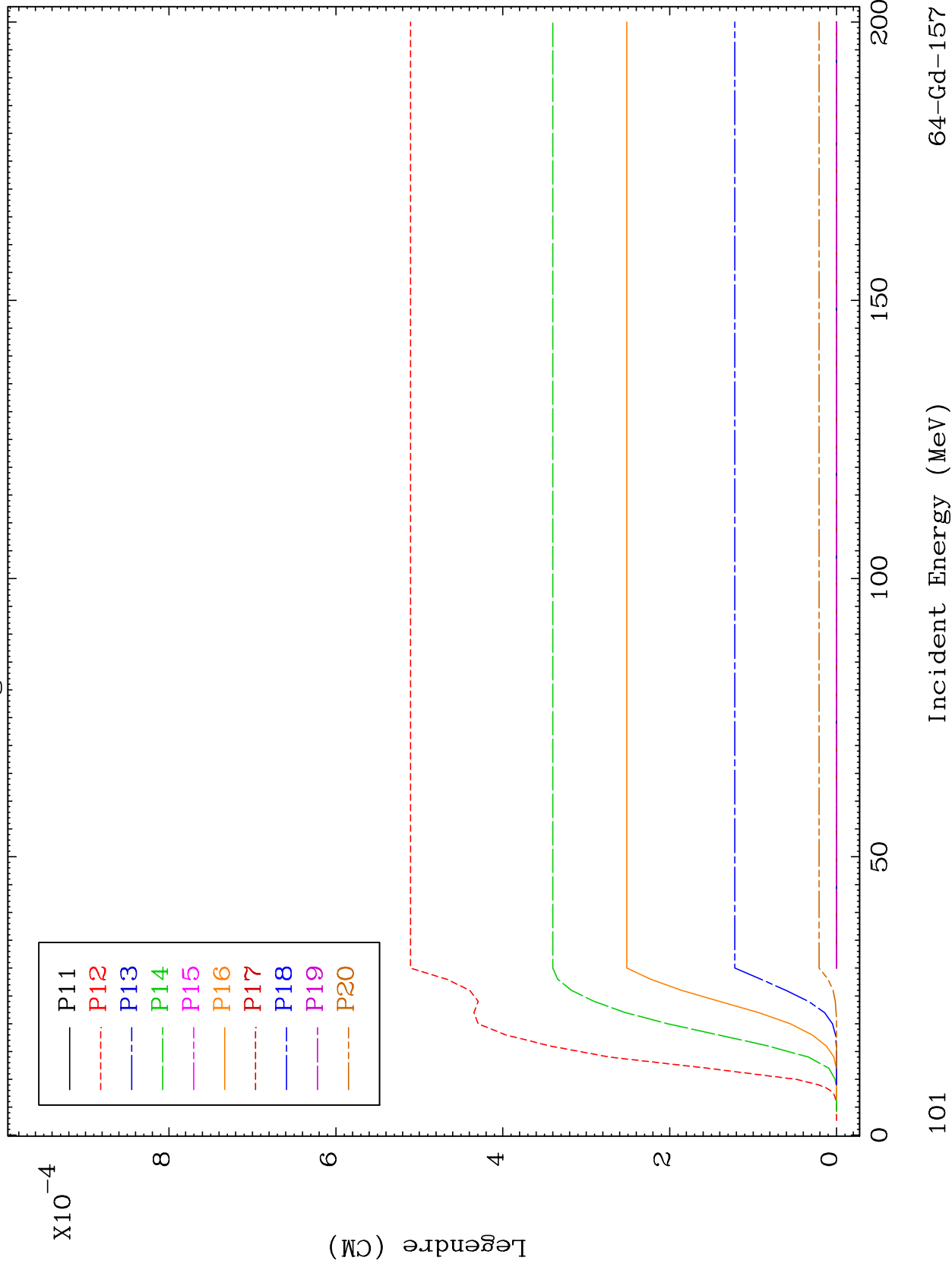
64-Gd-157

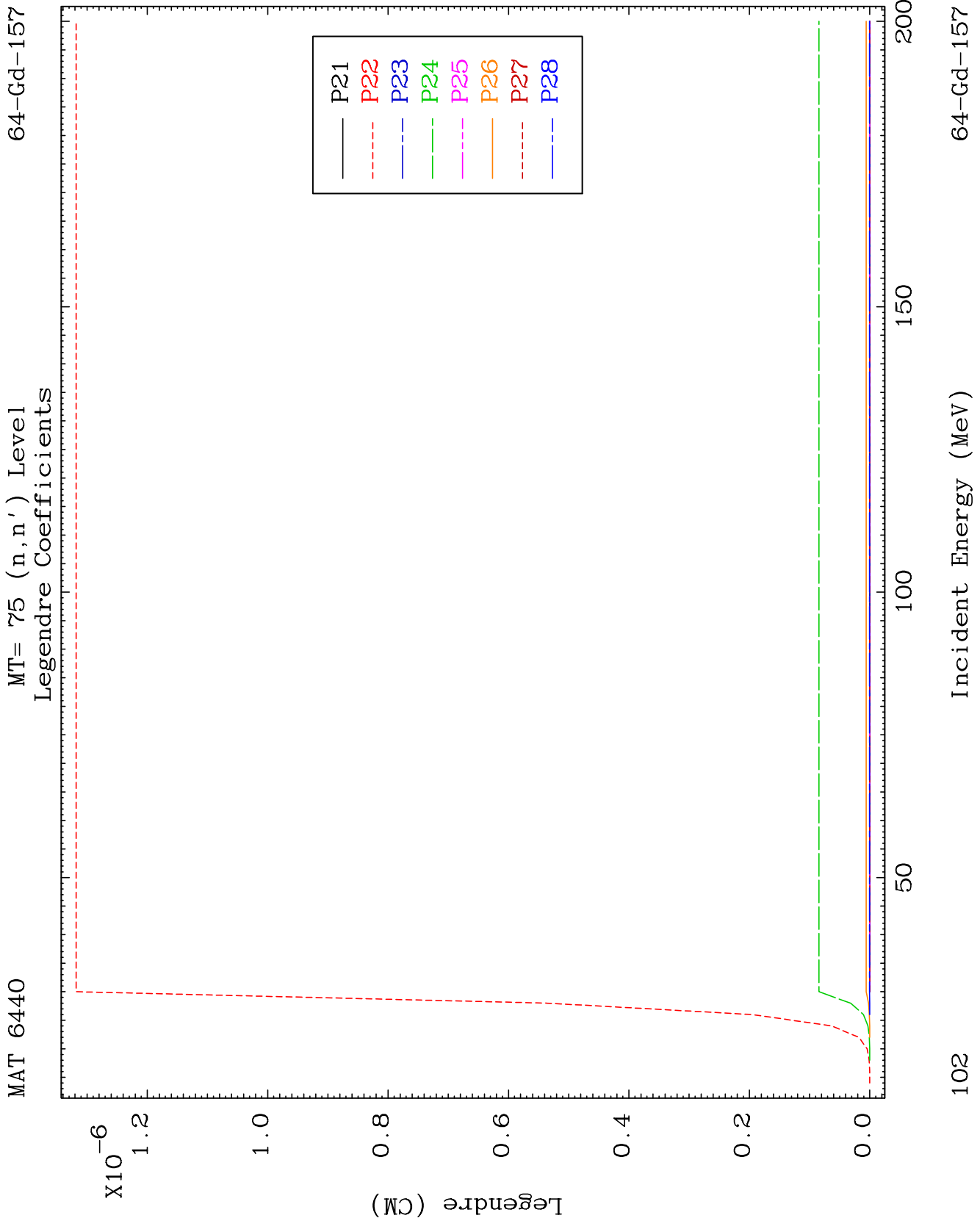


MAT 6440

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

64-Gd-157

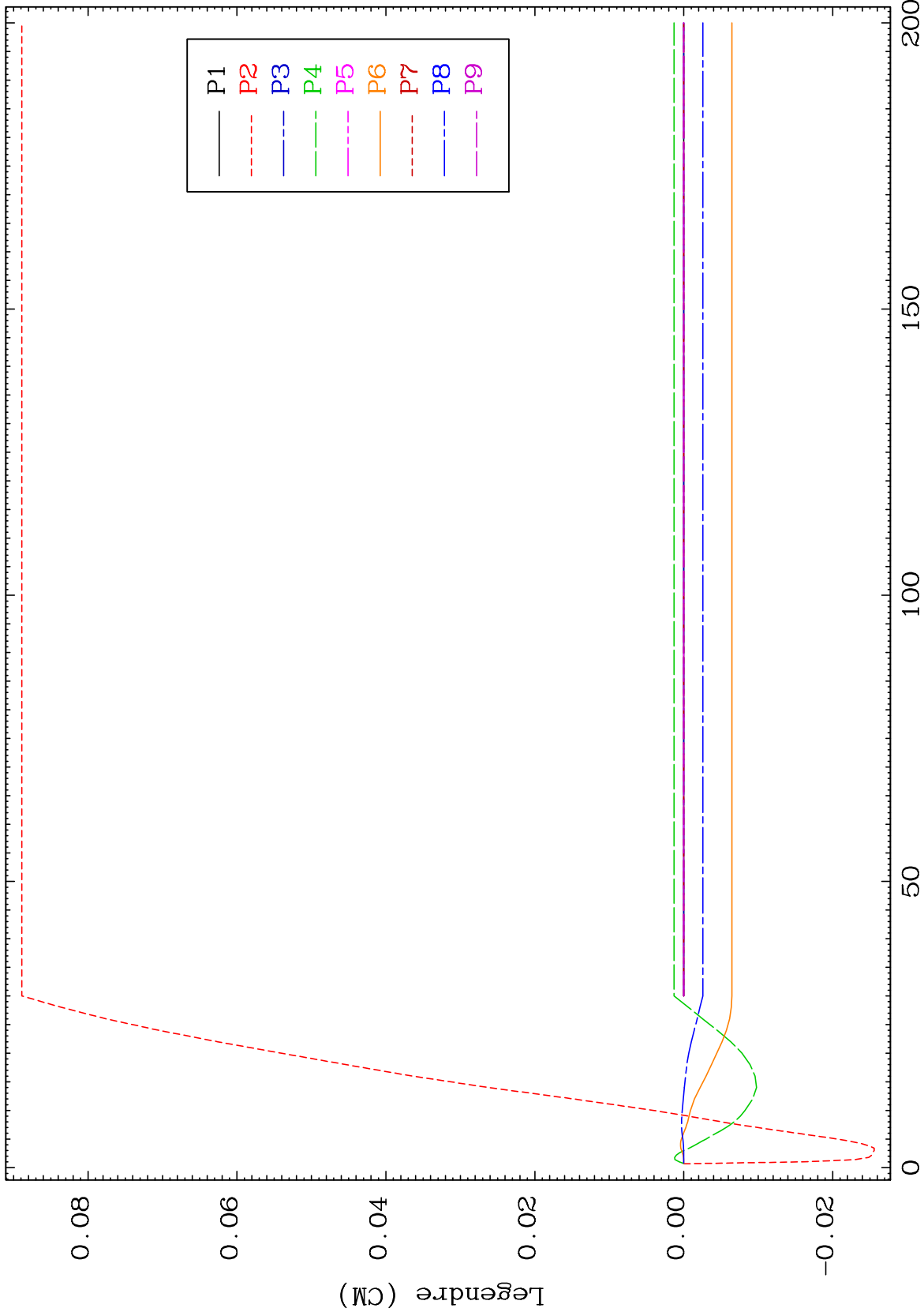




MAT 6440

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

64-Gd-157



64-Gd-157

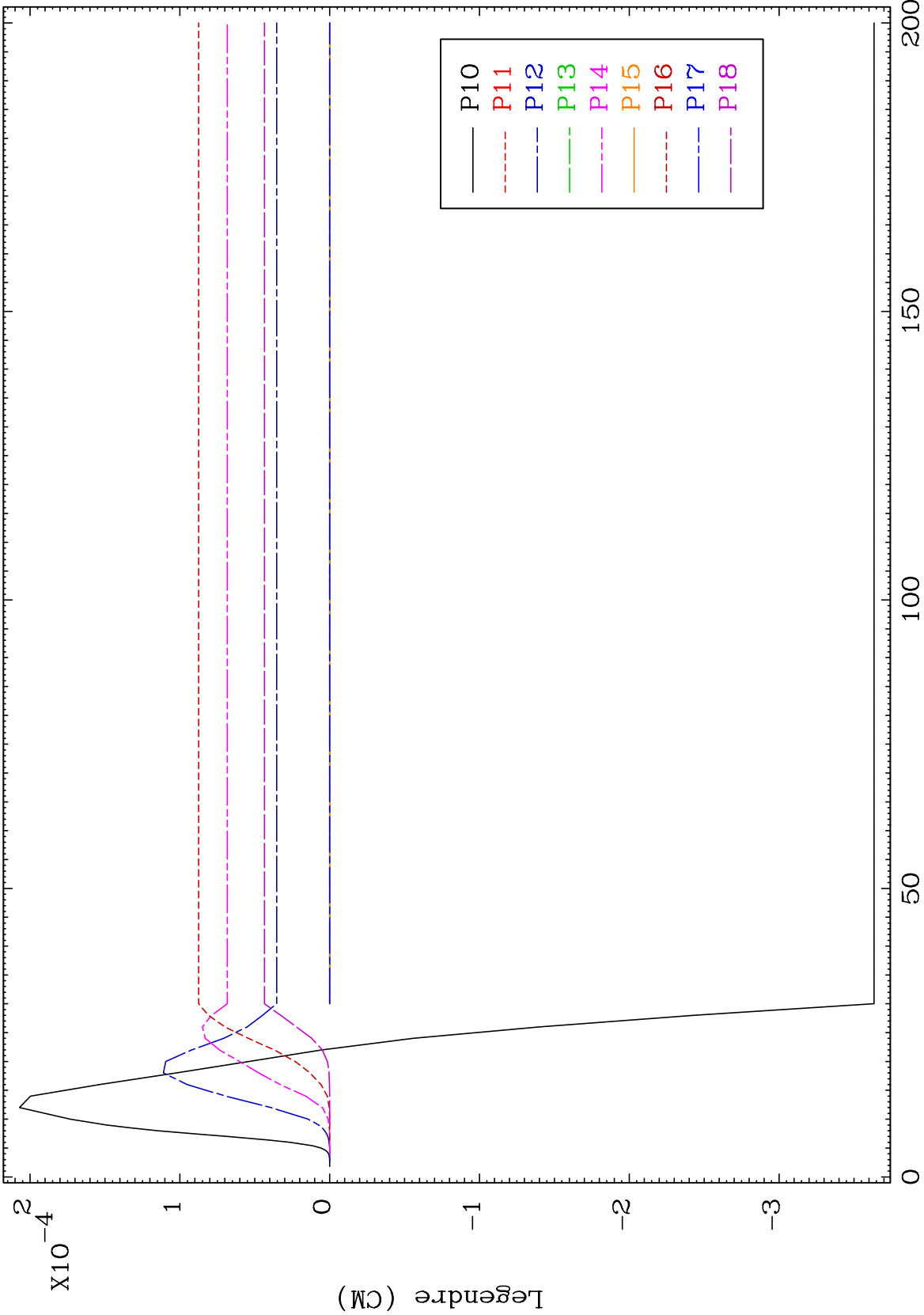
Incident Energy (MeV)

103

MAT 6440

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

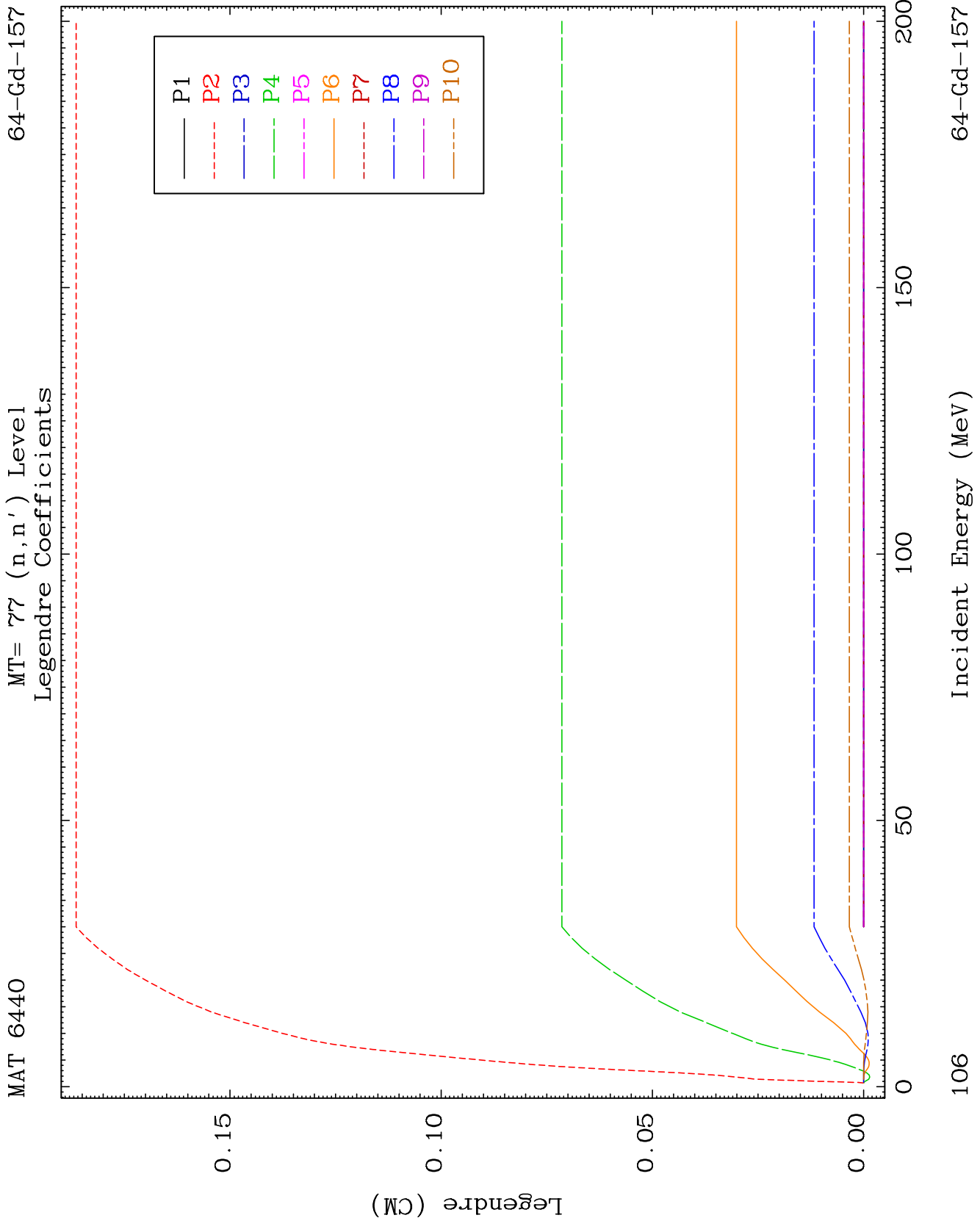
64-Gd-157



104

Incident Energy (MeV)

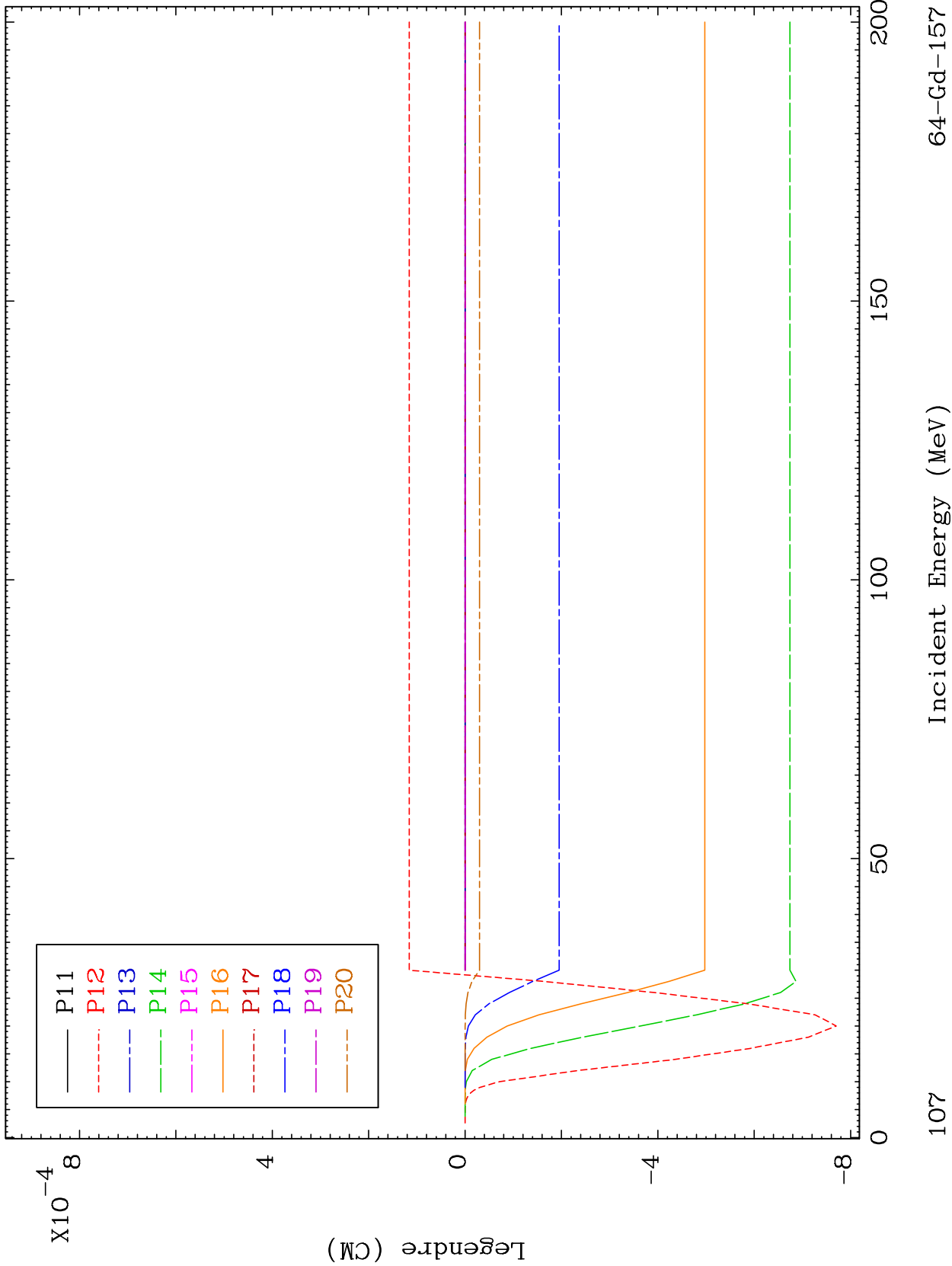
64-Gd-157



MAT 6440

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

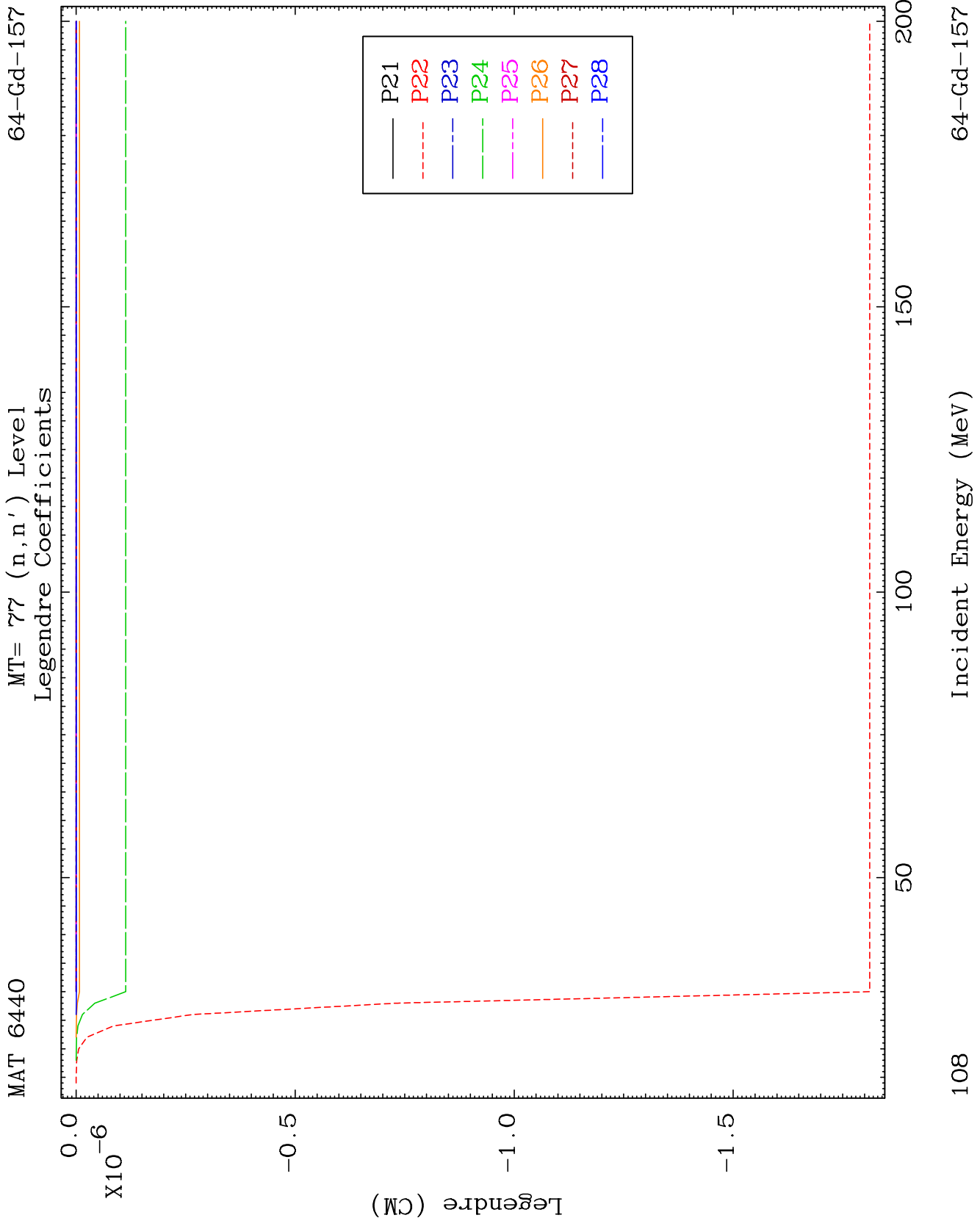
64-Gd-157

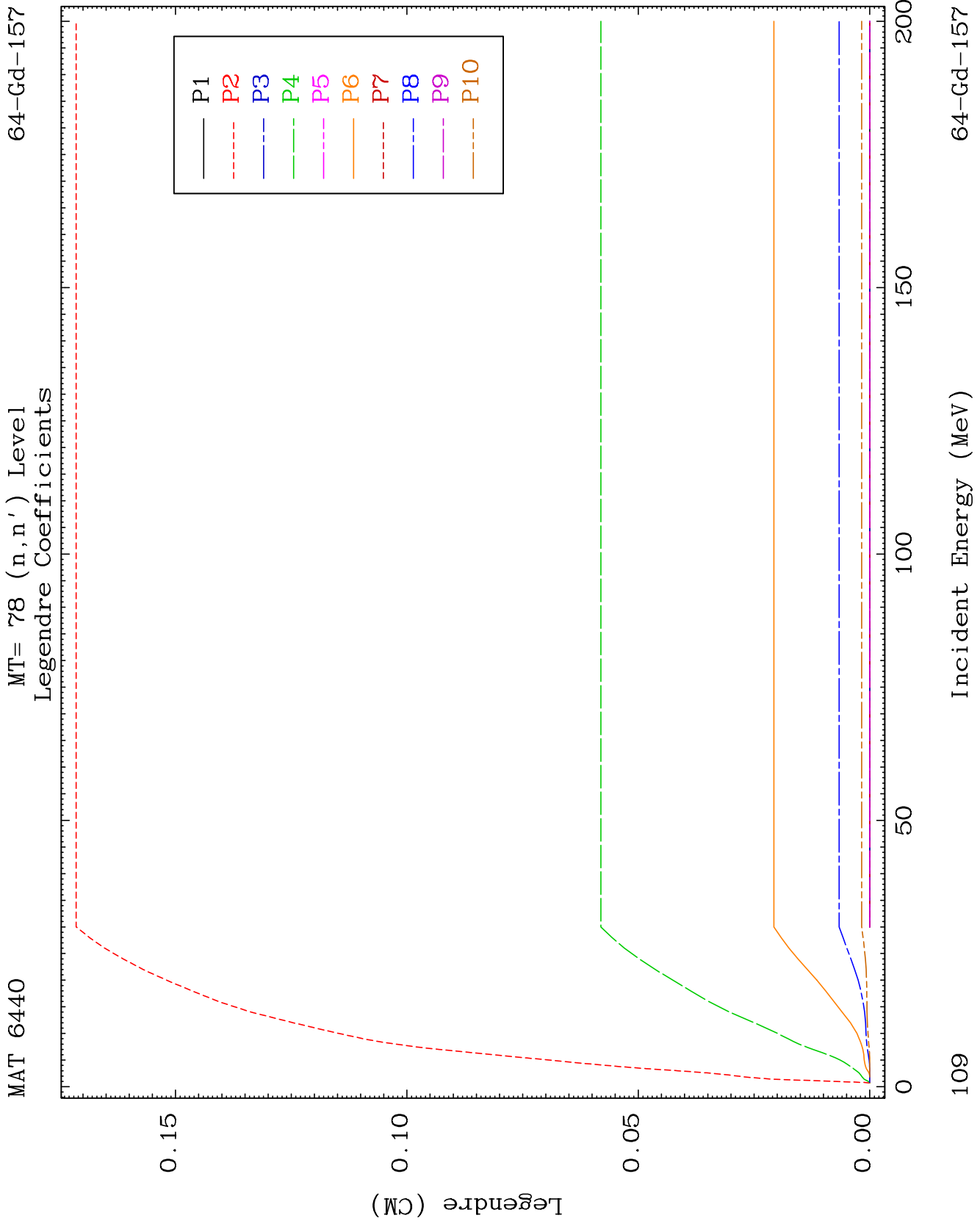


107

Incident Energy (MeV)

64-Gd-157

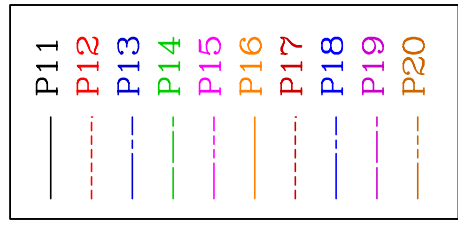




MAT 6440

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

64-Gd-157



$\times 10^{-4}$

8

6

Legendre (CM)

4

2

0

50

100

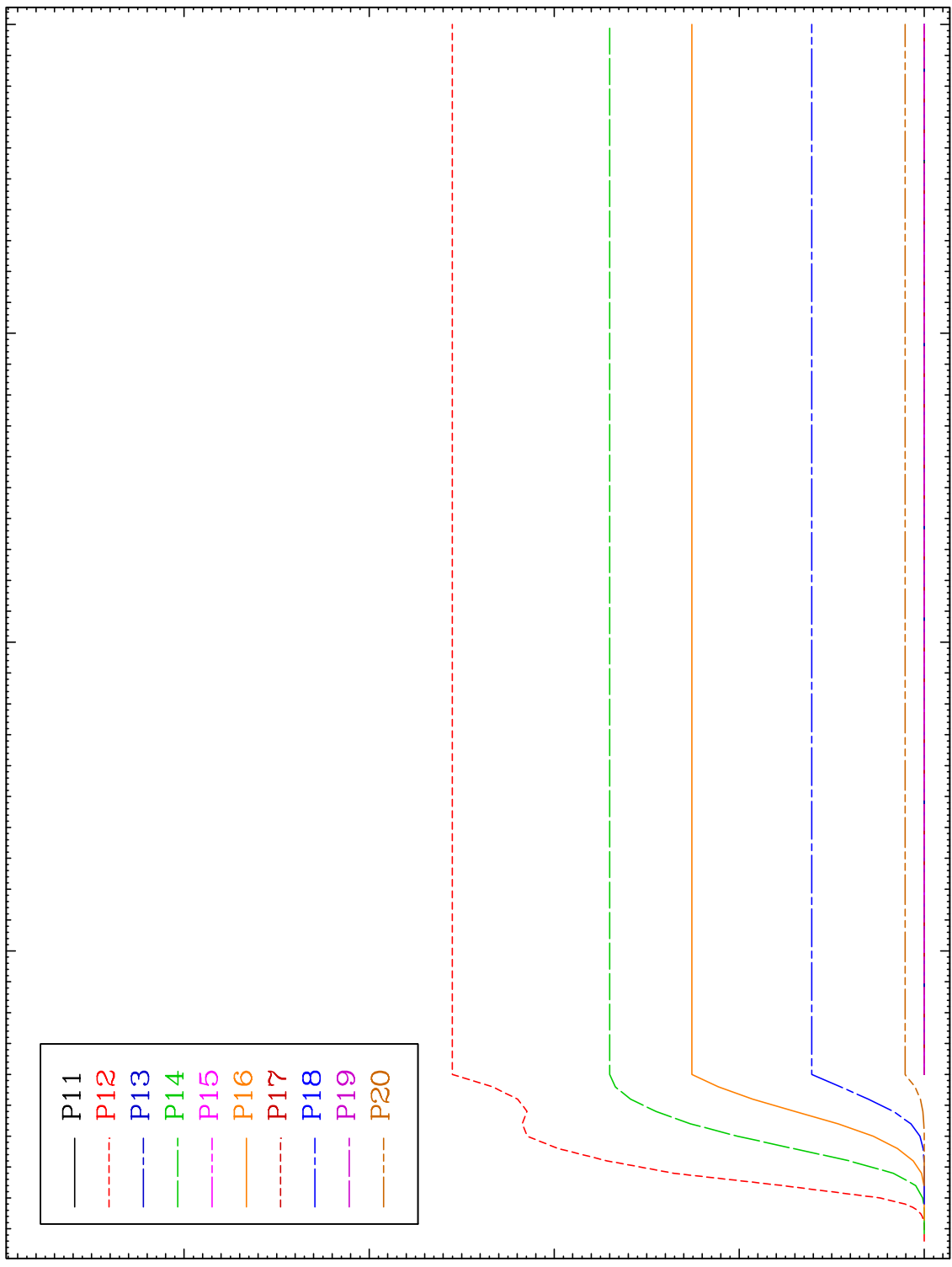
150

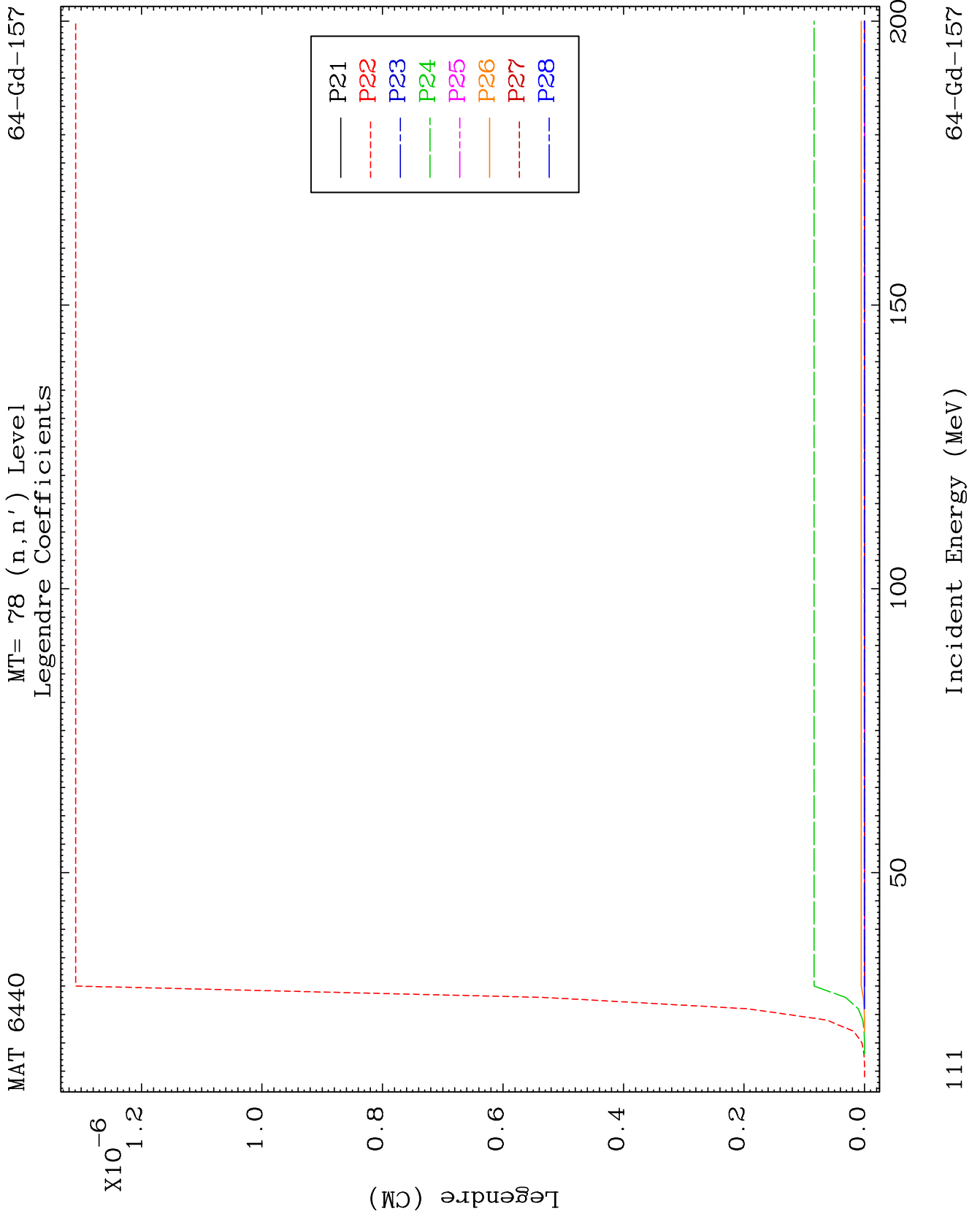
200

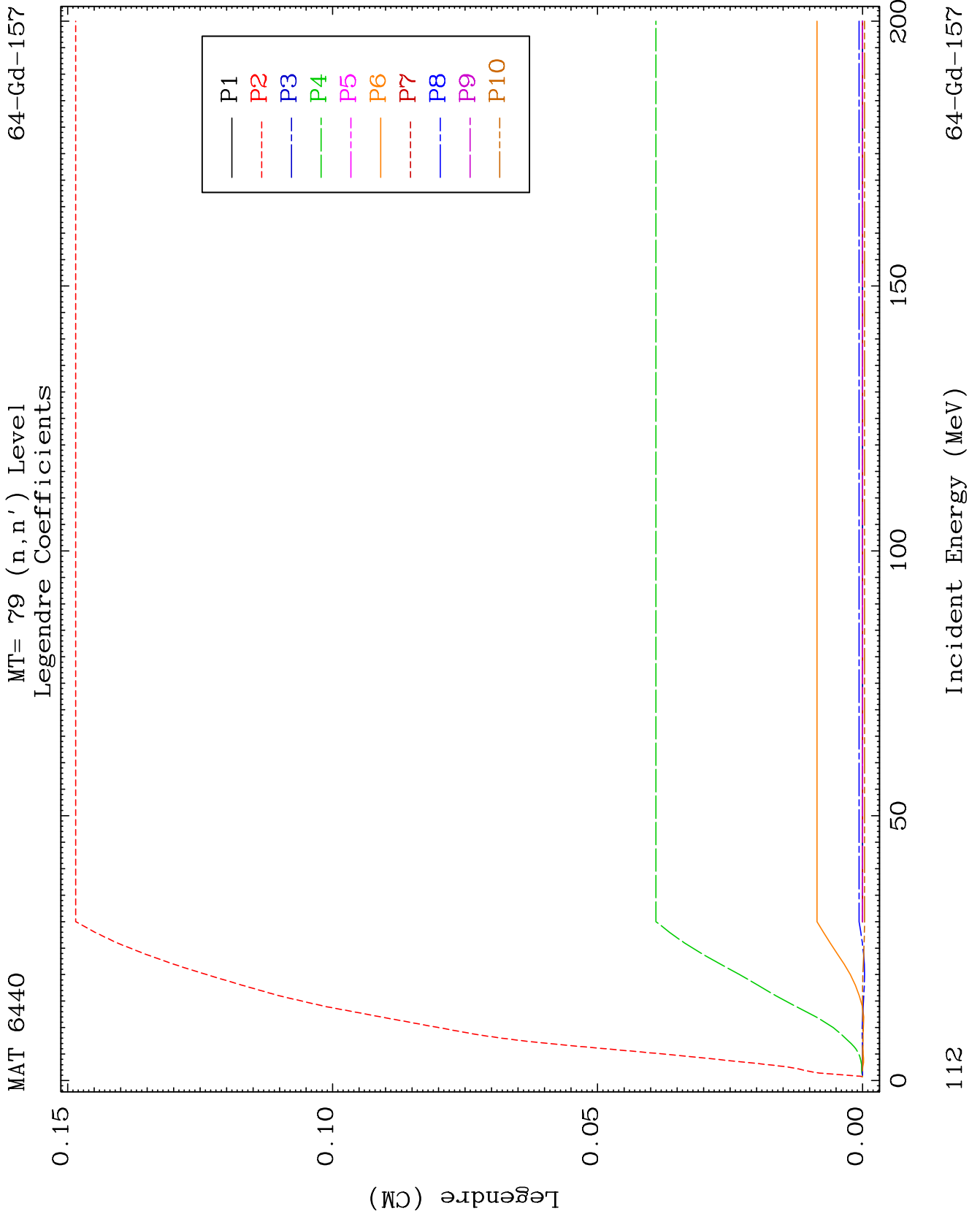
110

Incident Energy (MeV)

64-Gd-157



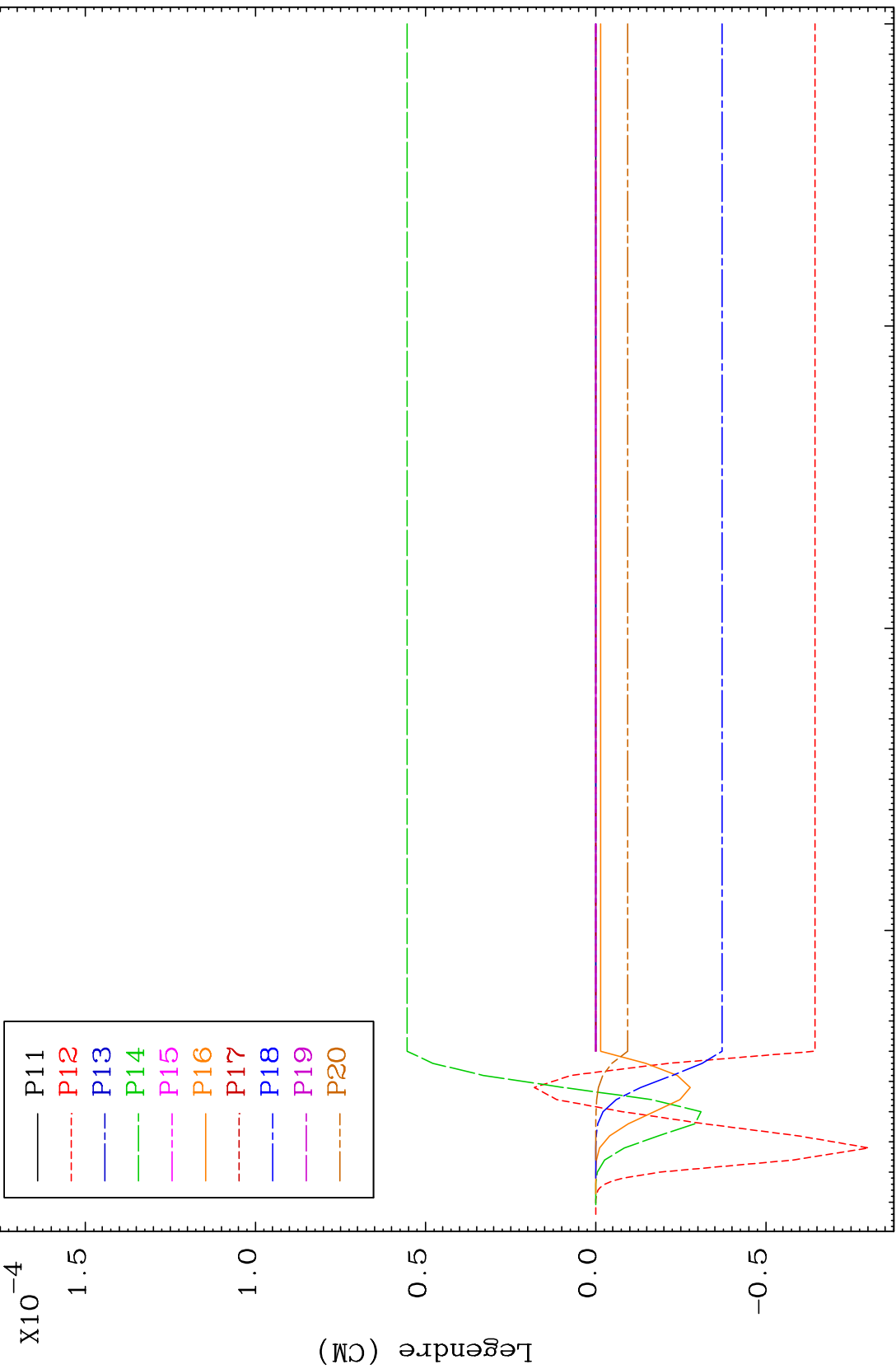
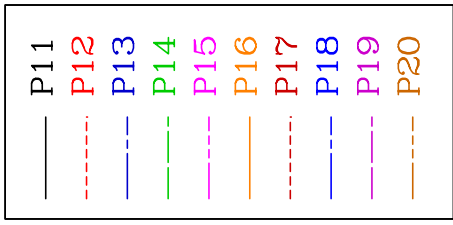




MAT 6440

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

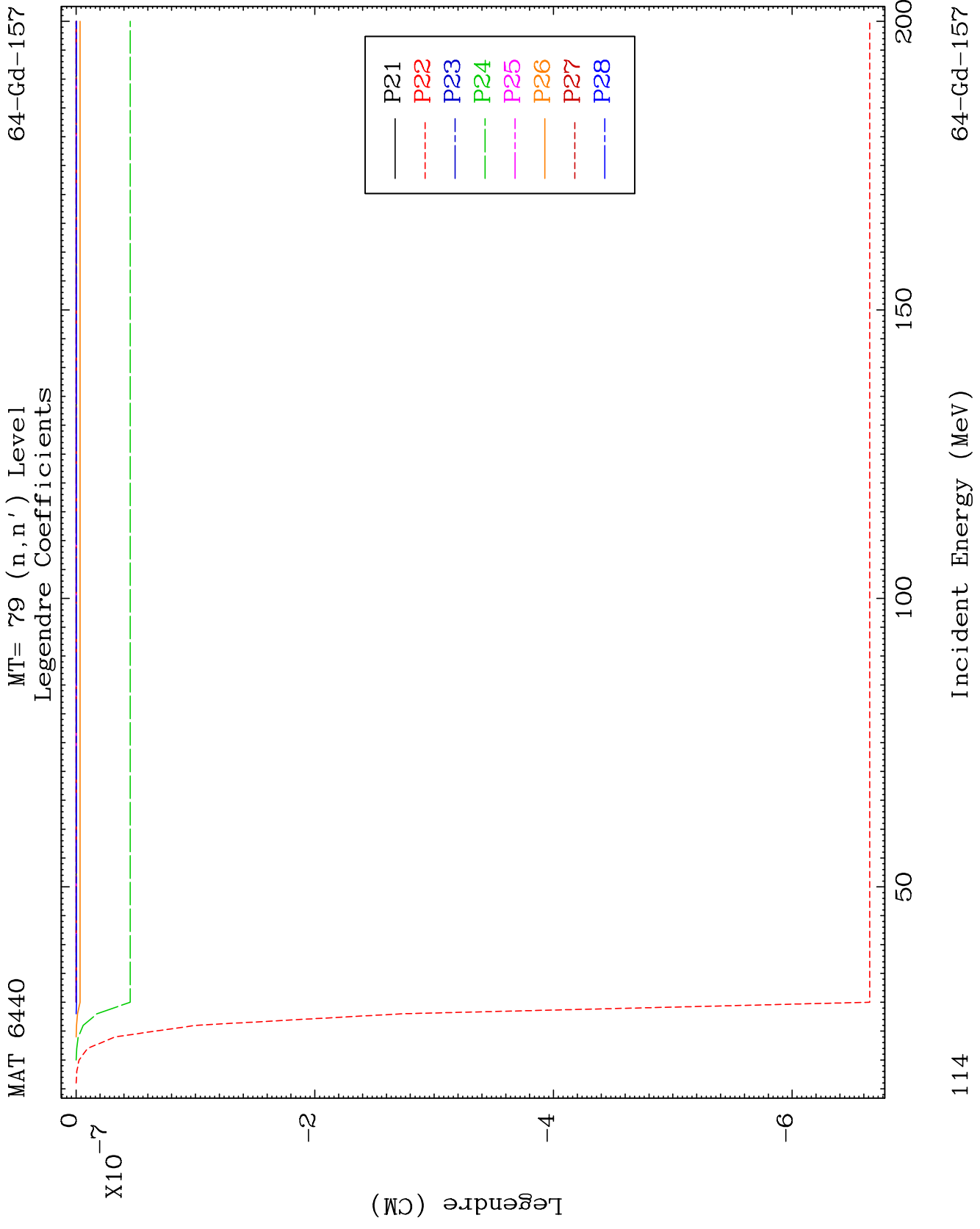
64-Gd-157

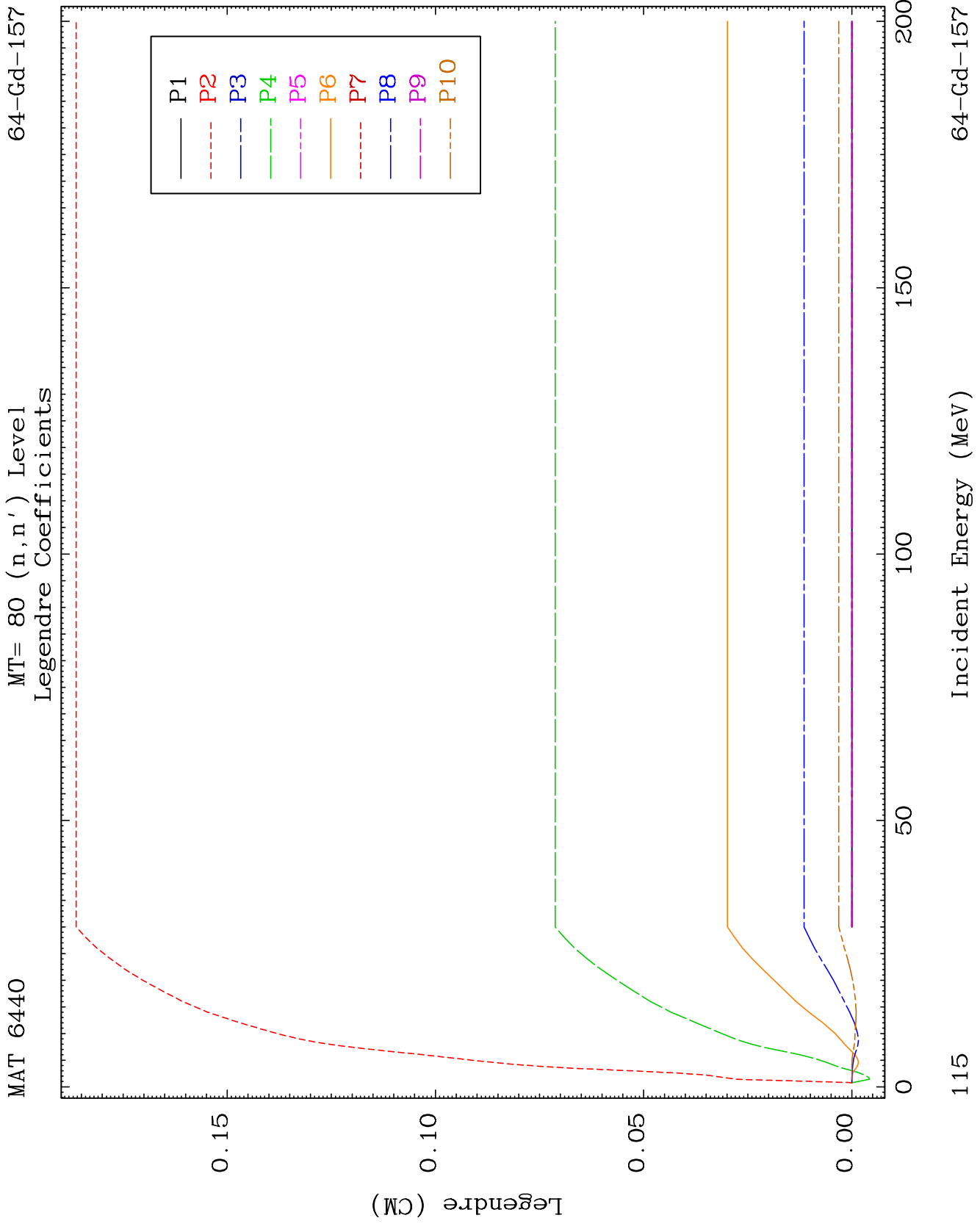


Incident Energy (MeV)

113

64-Gd-157

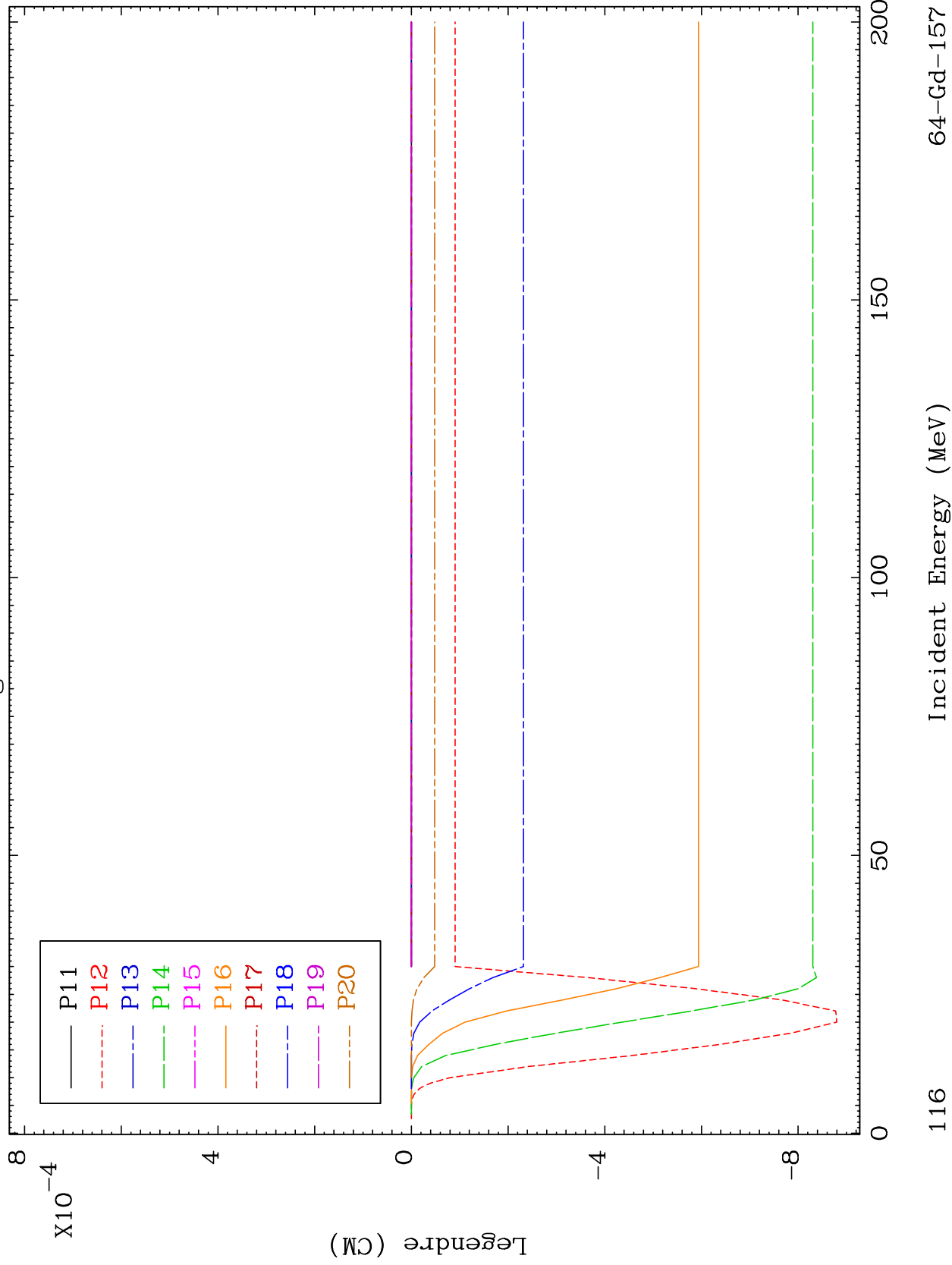




MAT 6440

MT= 80 (n,n') Level
Legendre Coefficients

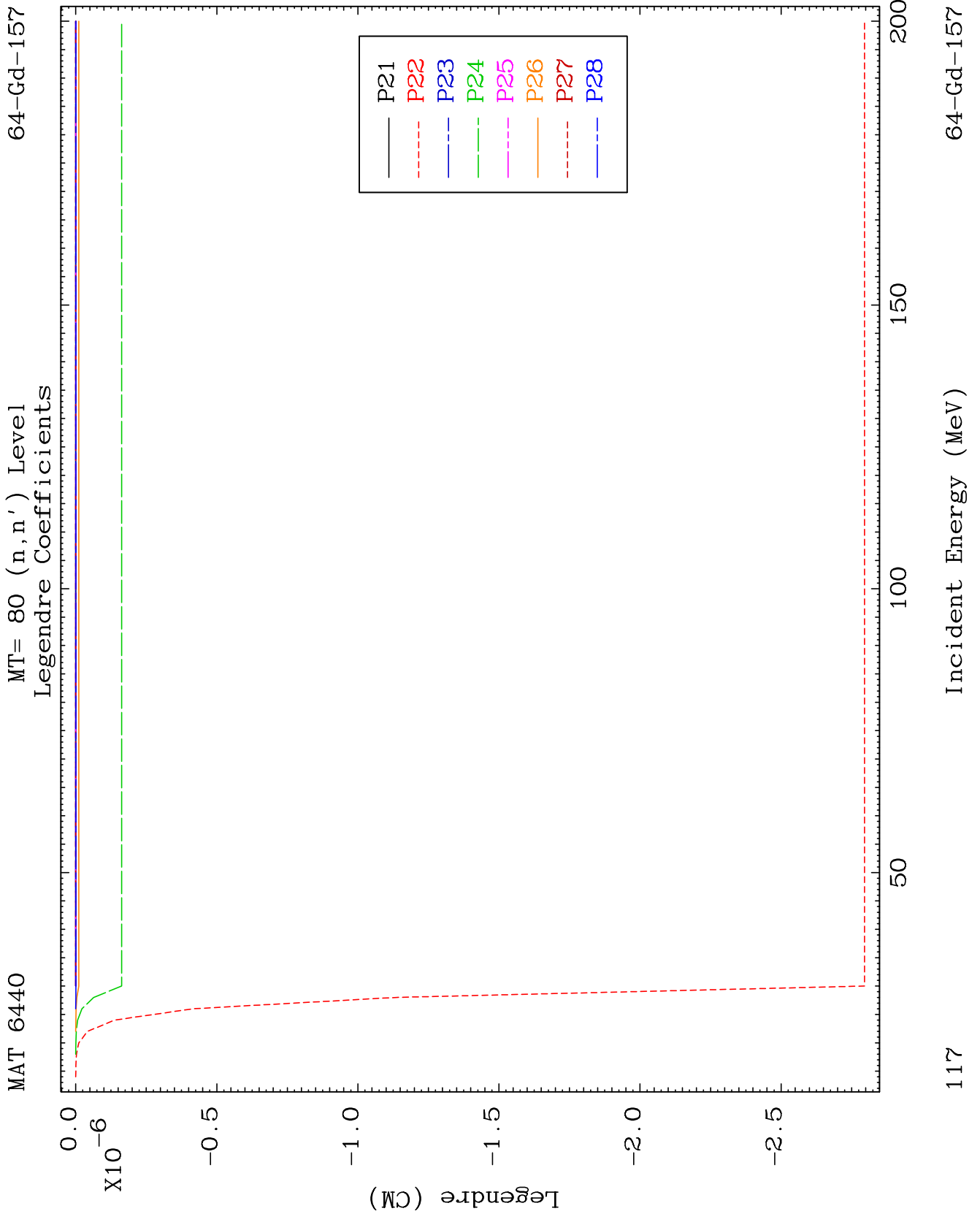
64-Gd-157

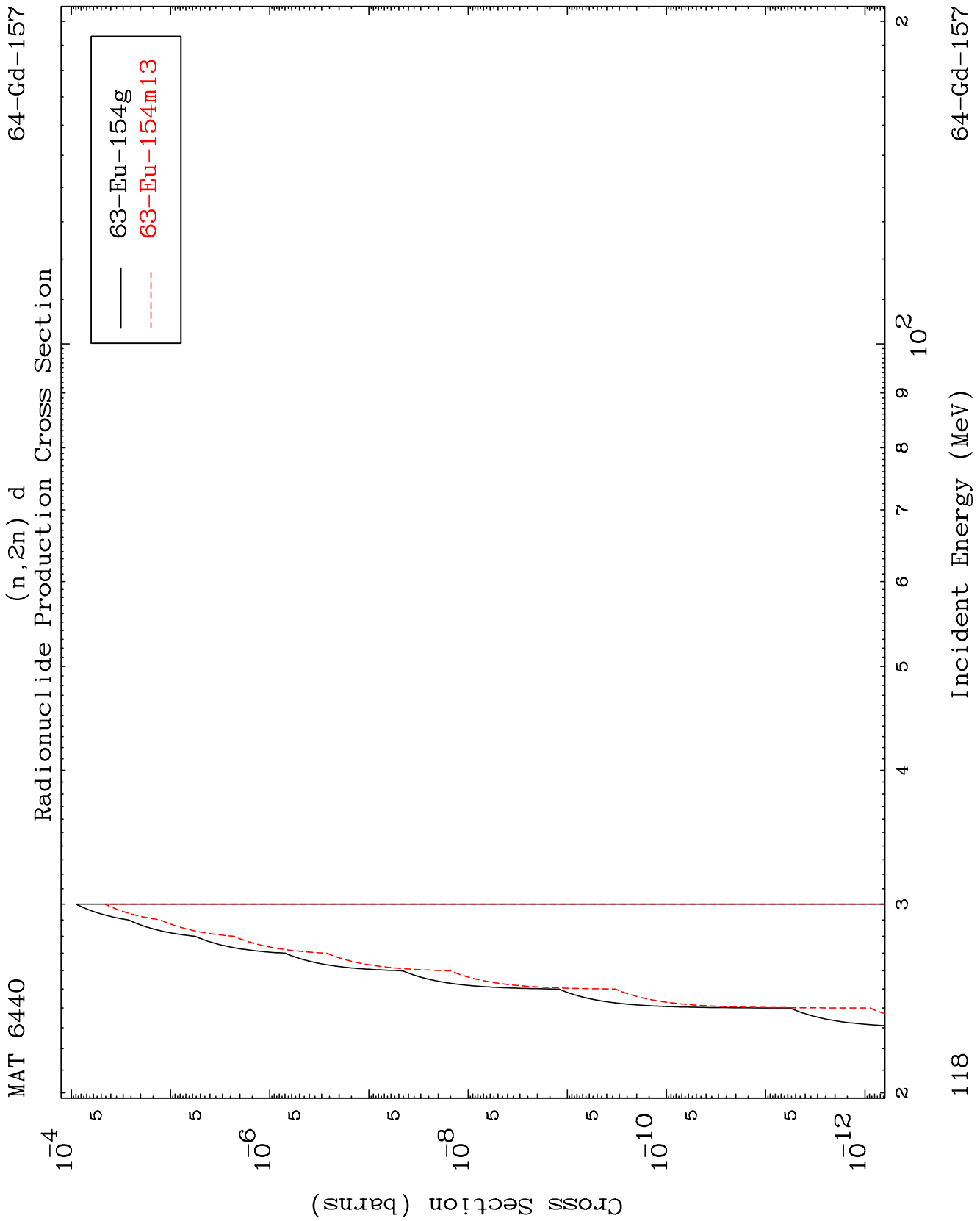


116

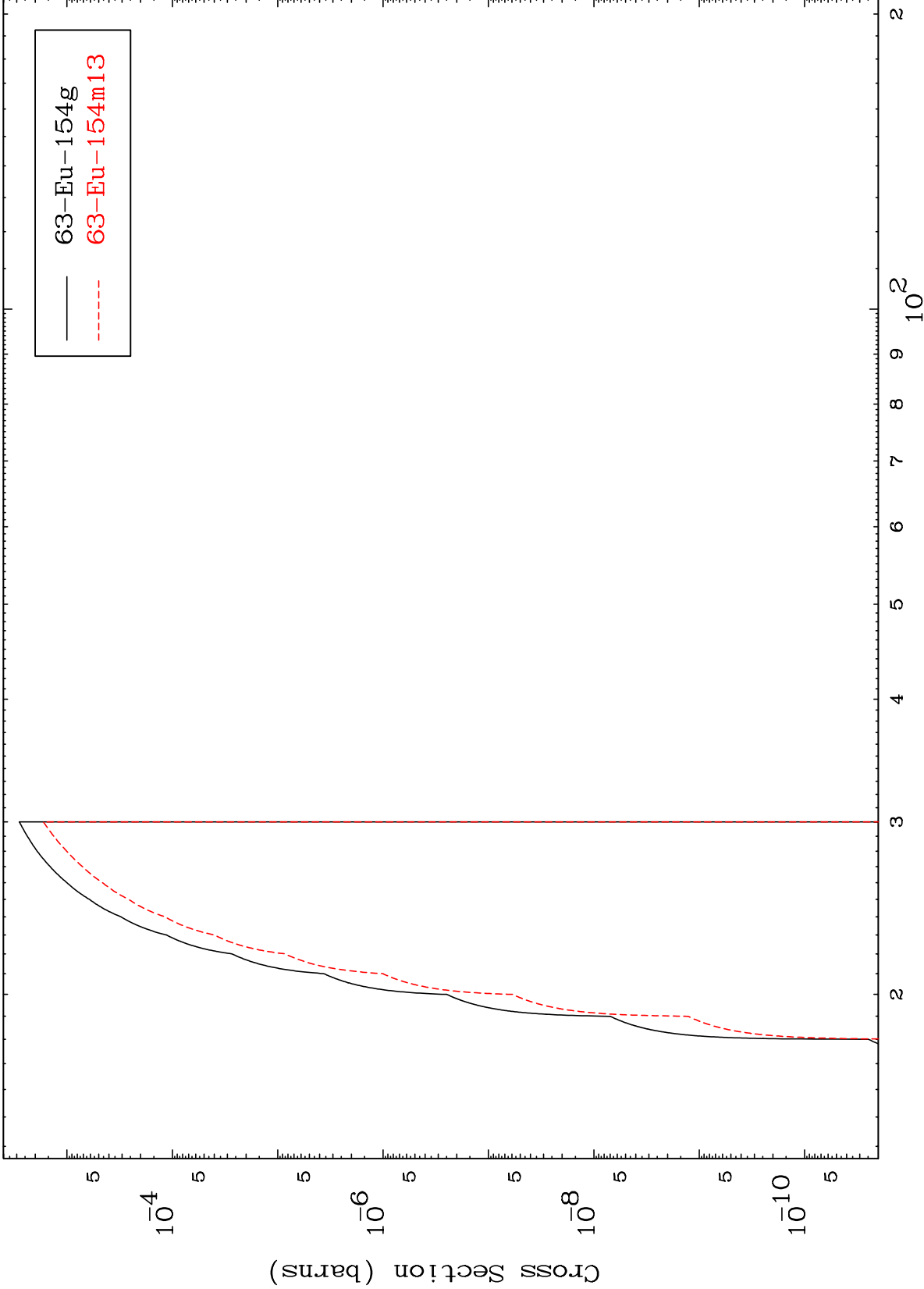
Incident Energy (MeV)

64-Gd-157





Radionuclide Production Cross Section

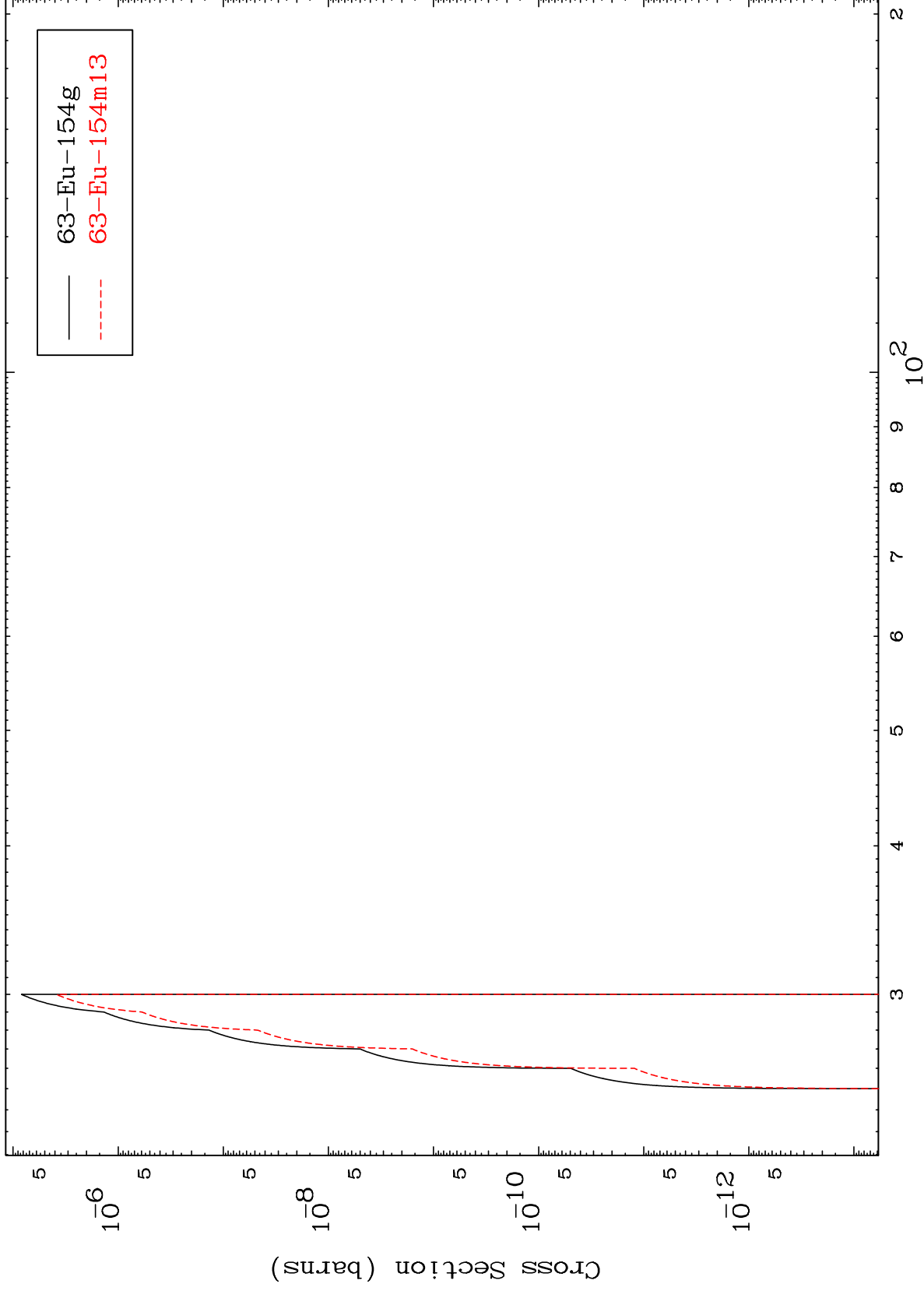


MAT 6440

(n,3n) p

64-Gd-157

Radionuclide Production Cross Section



120

Incident Energy (MeV)

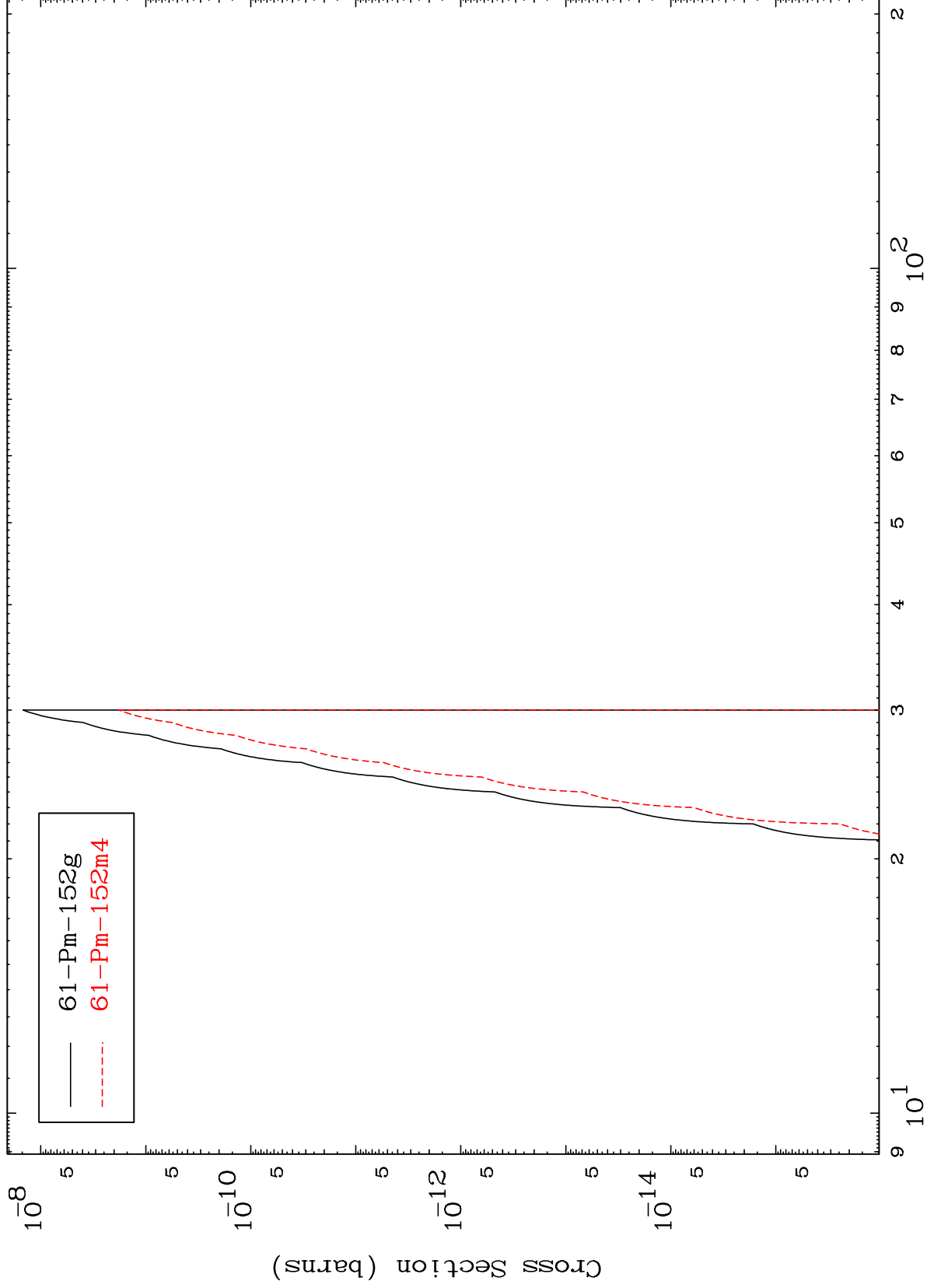
64-Gd-157

MAT 6440

(n,n') p α

64-Gd-157

Radionuclide Production Cross Section



121

Incident Energy (MeV)

64-Gd-157