

Program EVALPLOT
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.

Tele: 925-443-1911

E.Mail:redcullen1@comcast.net

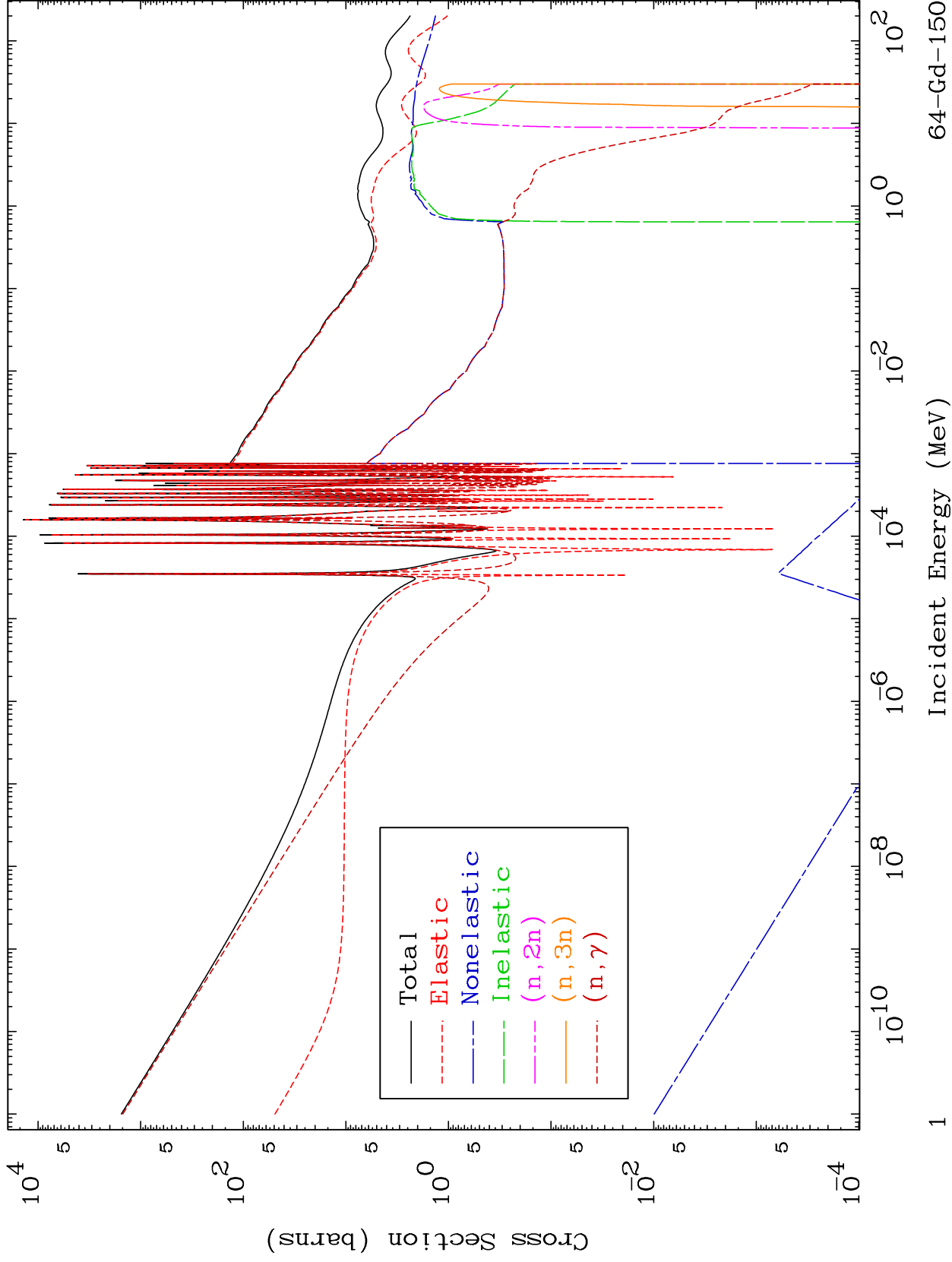
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6419

Neutron Major
293 Kelvin Cross Sections

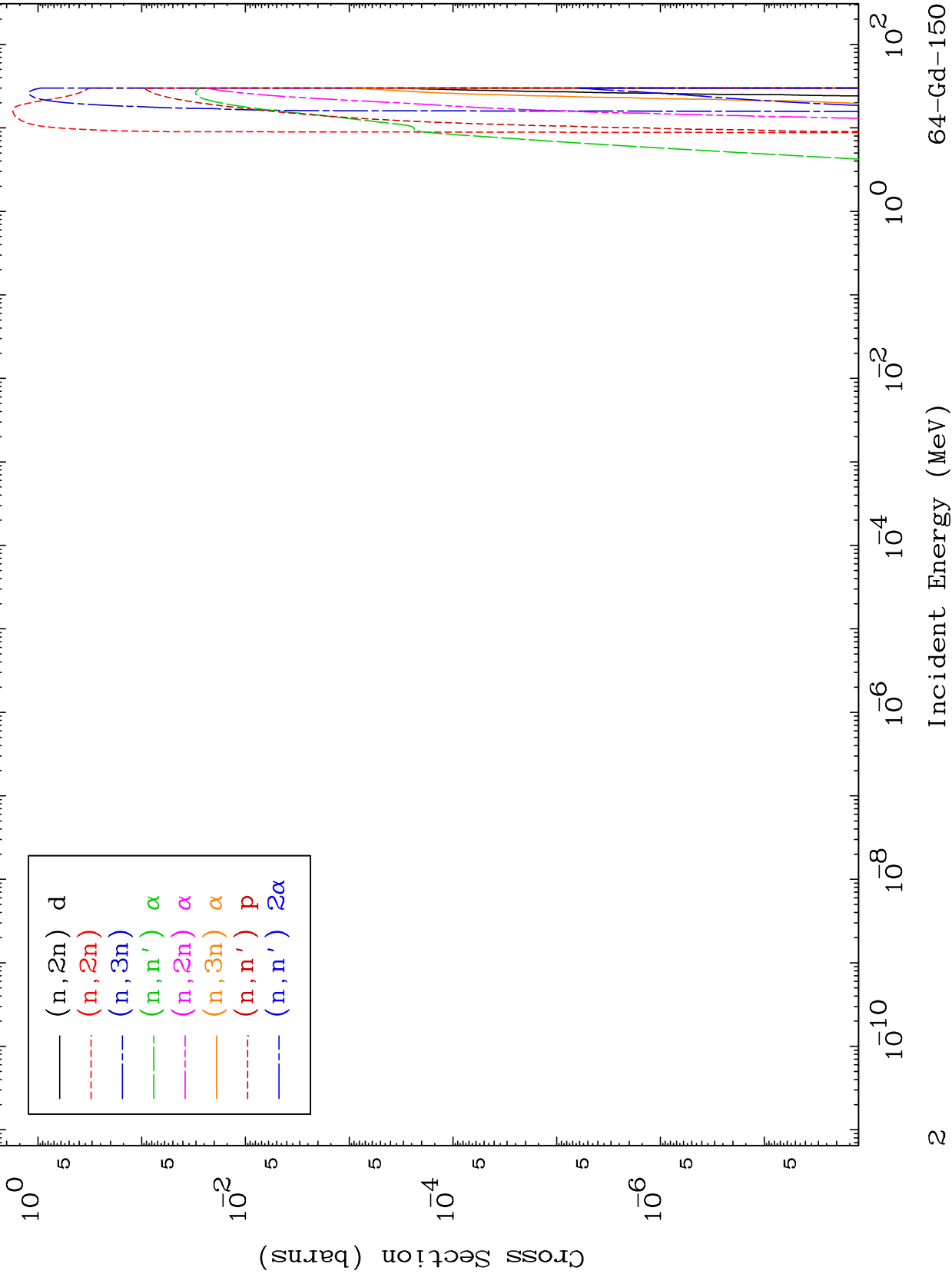
64-Gd-150



MAT 6419

Neutron Absorption
293 Kelvin Cross Sections

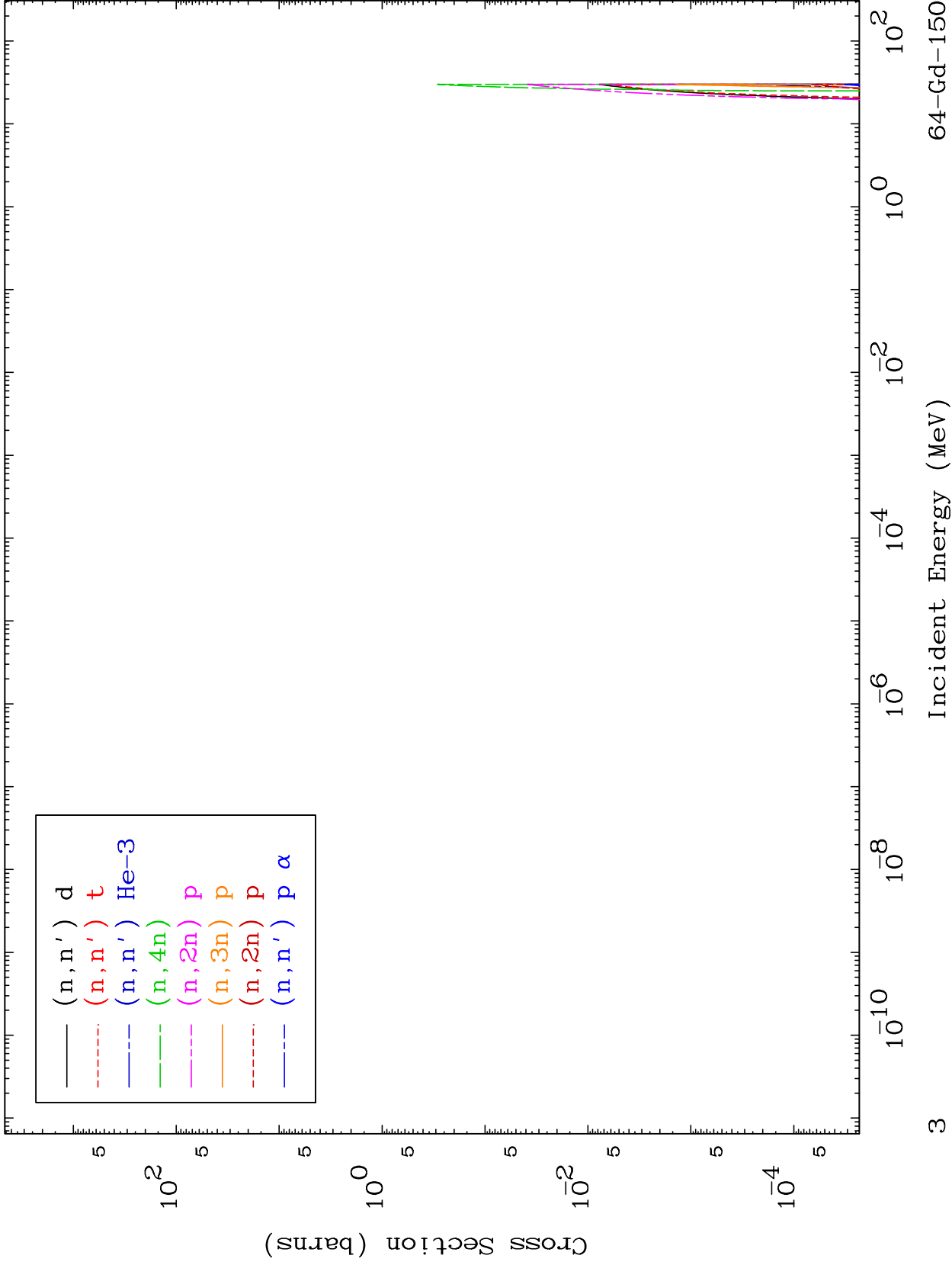
64-Gd-150



MAT 6419

Neutron Absorption
293 Kelvin Cross Sections

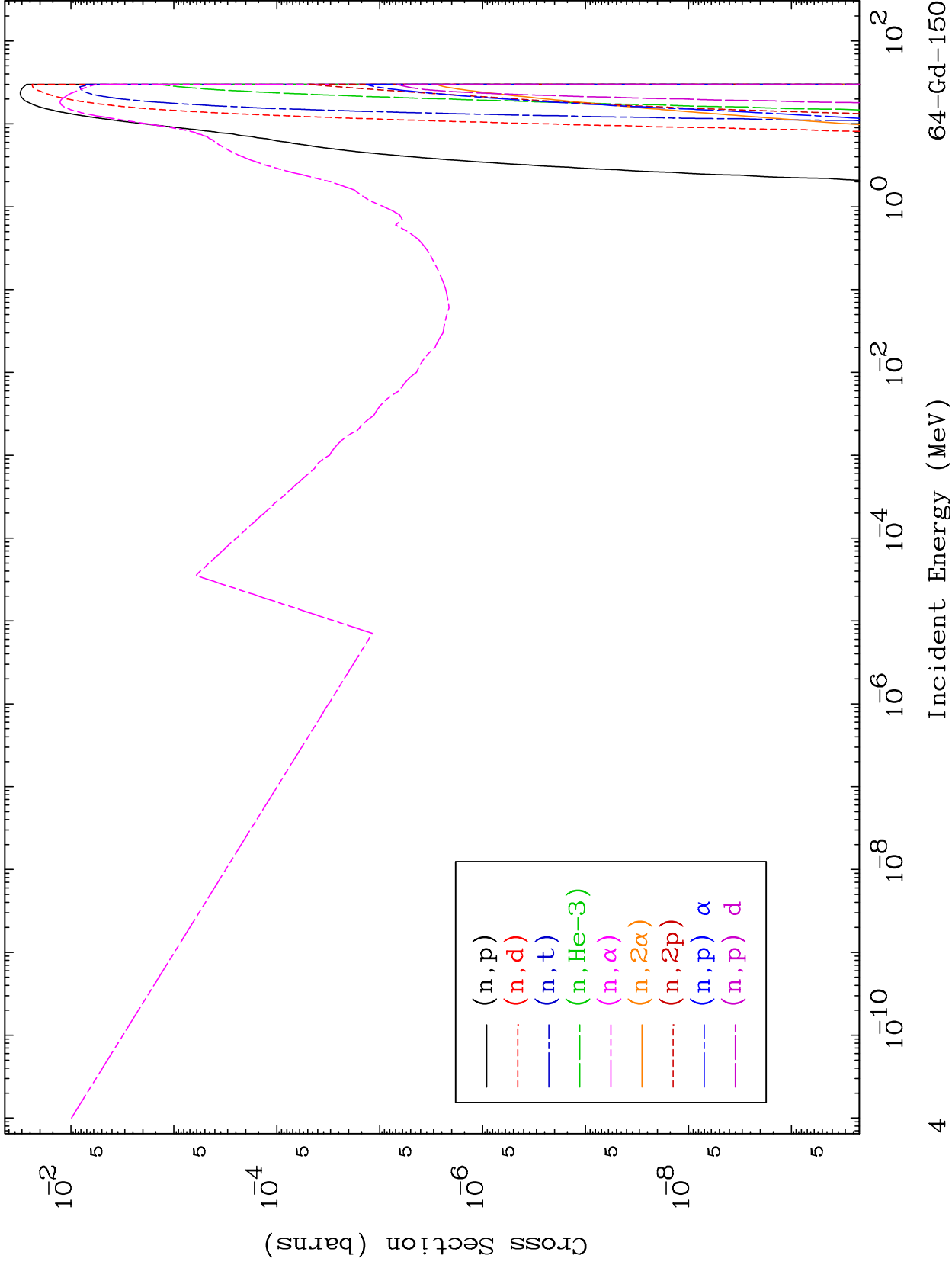
64-Gd-150

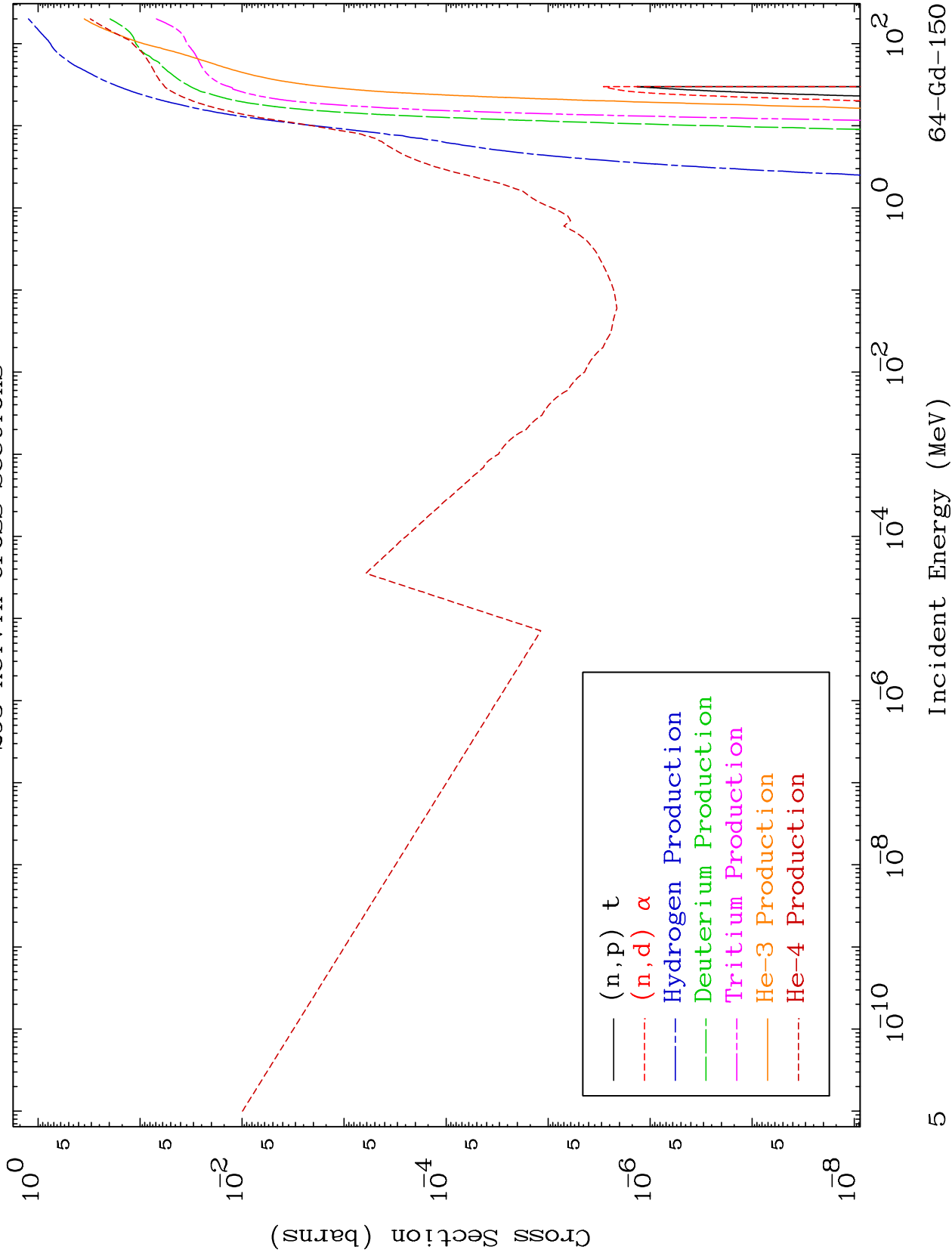


MAT 6419

Neutron Absorption
293 Kelvin Cross Sections

64-Gd-150

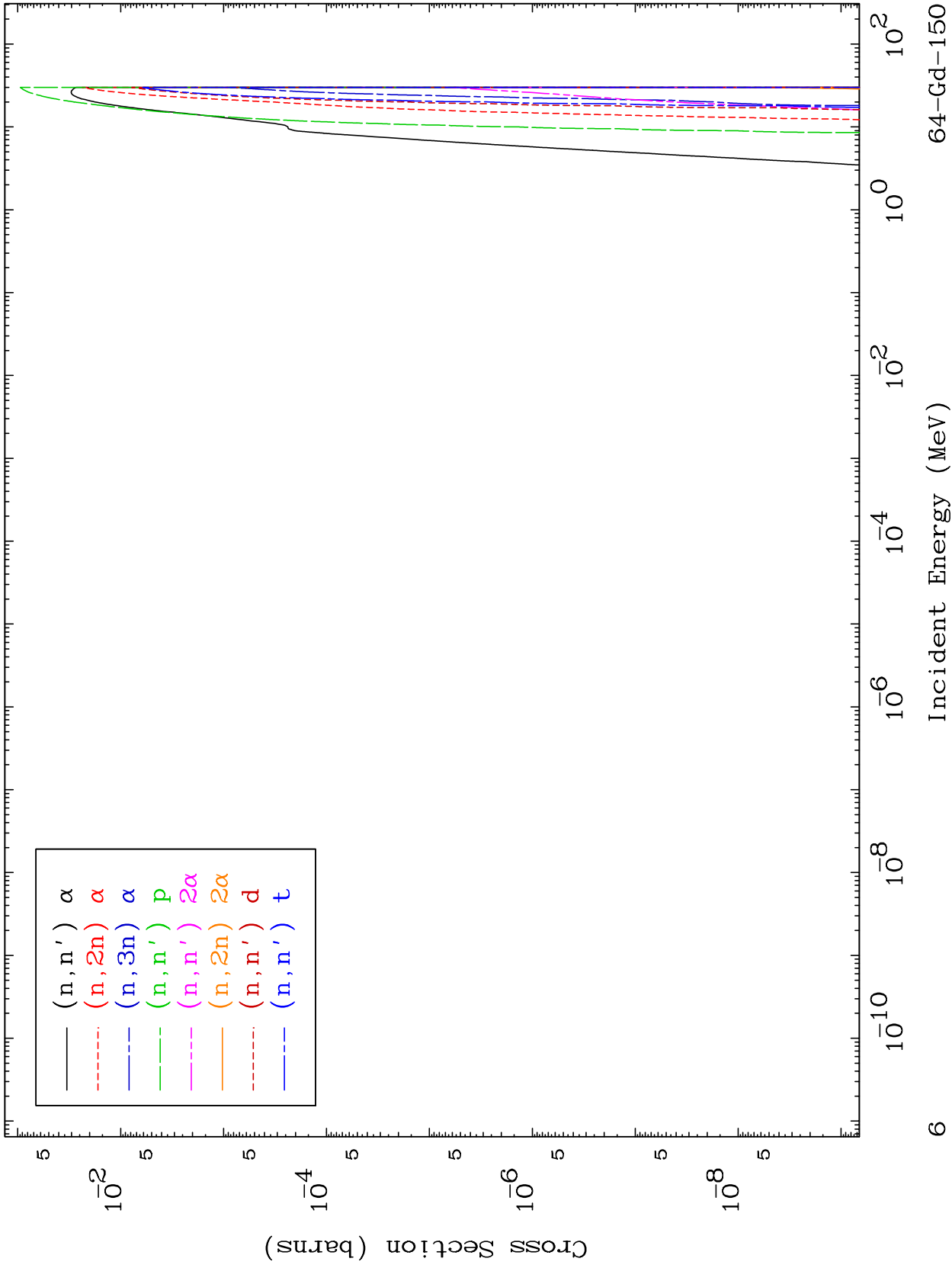




MAT 6419

Charged Particle
293 Kelvin Cross Sections

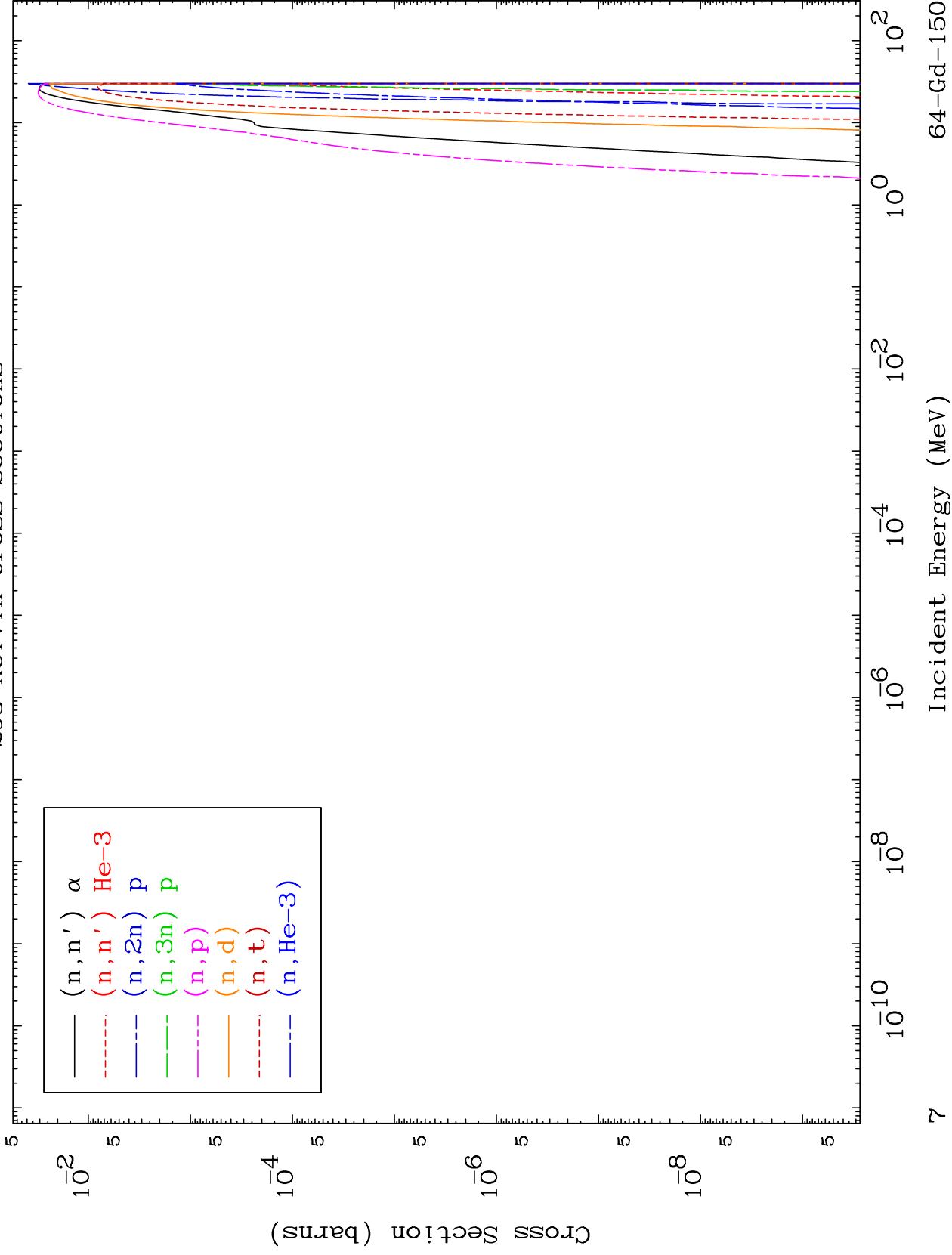
64-Gd-150



MAT 6419

Charged Particle
293 Kelvin Cross Sections

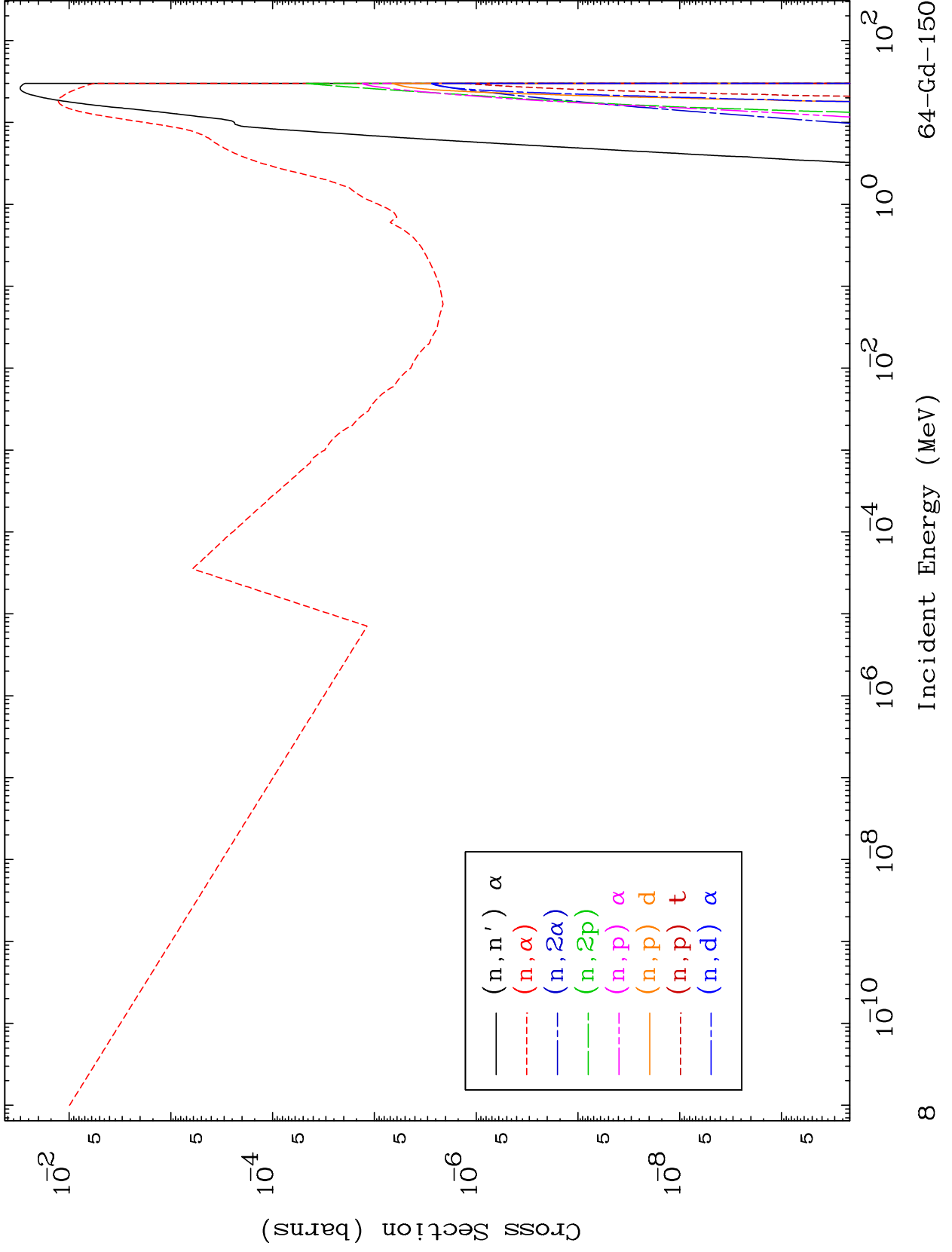
64-Gd-150



MAT 6419

Charged Particle
293 Kelvin Cross Sections

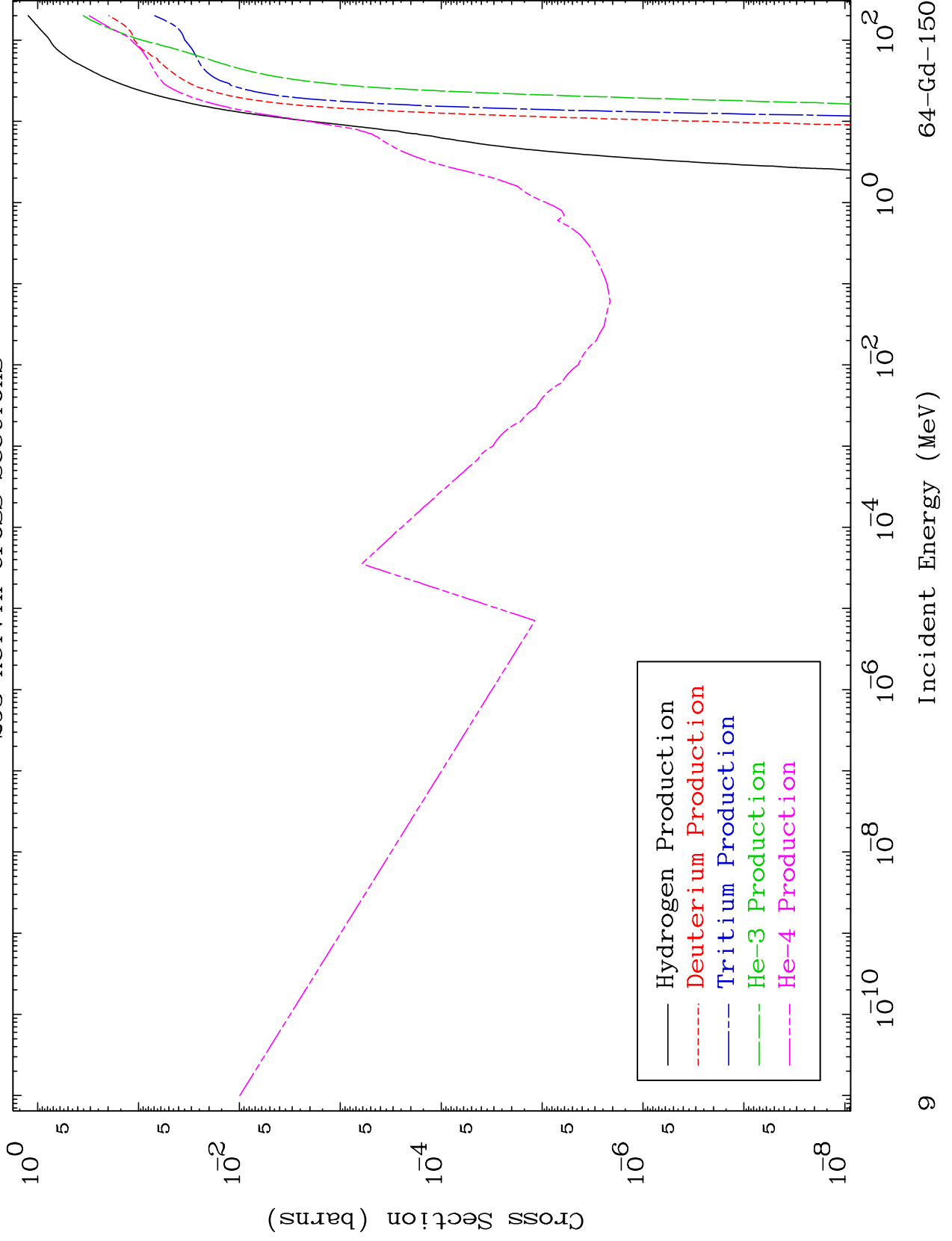
64-Gd-150



MAT 6419

Particle Production
293 Kelvin Cross Sections

64-Gd-150

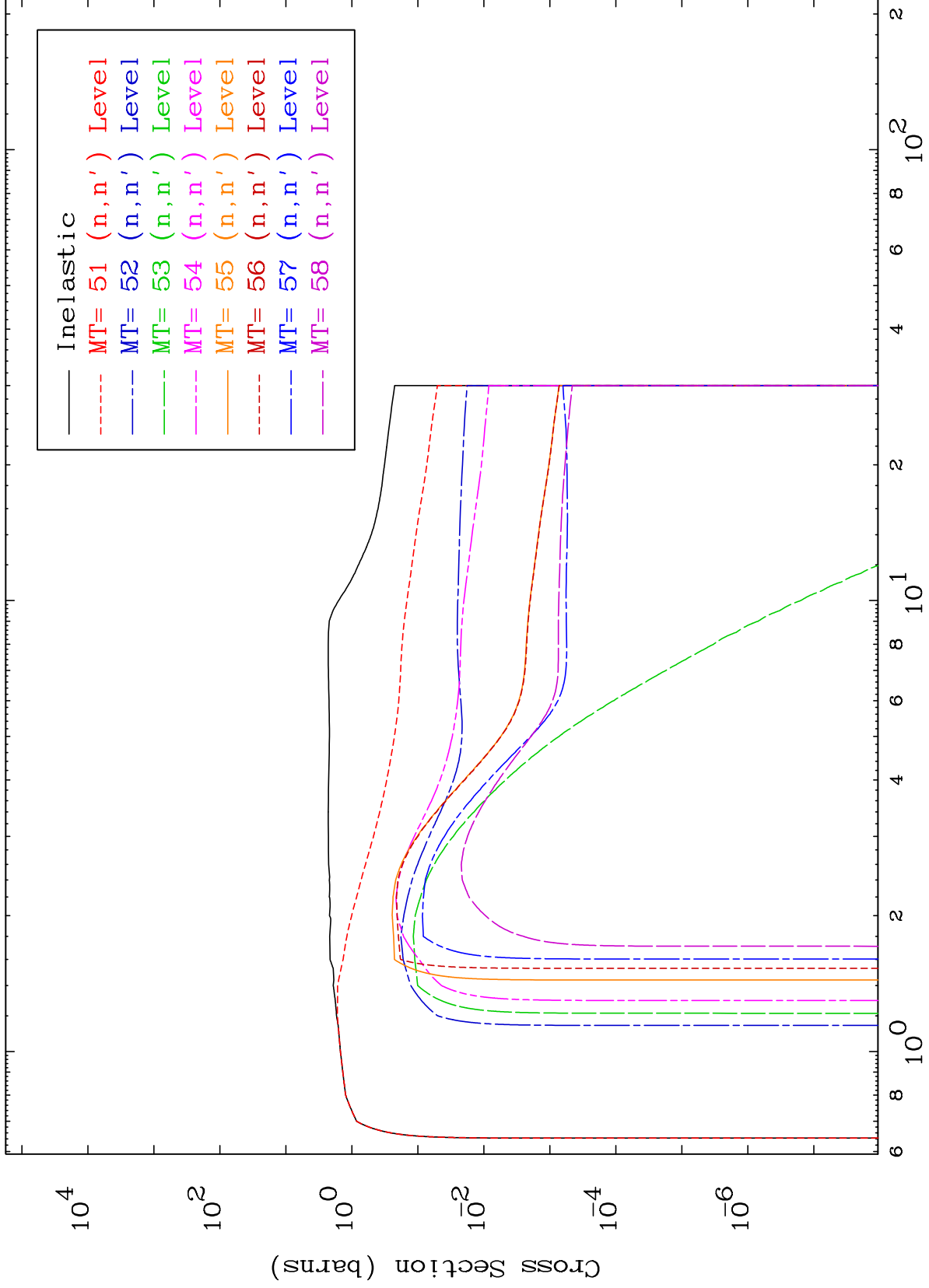


MAT 6419

(n,n') Levels

64-Gd-150

293 Kelvin Cross Sections



10

Incident Energy (MeV)

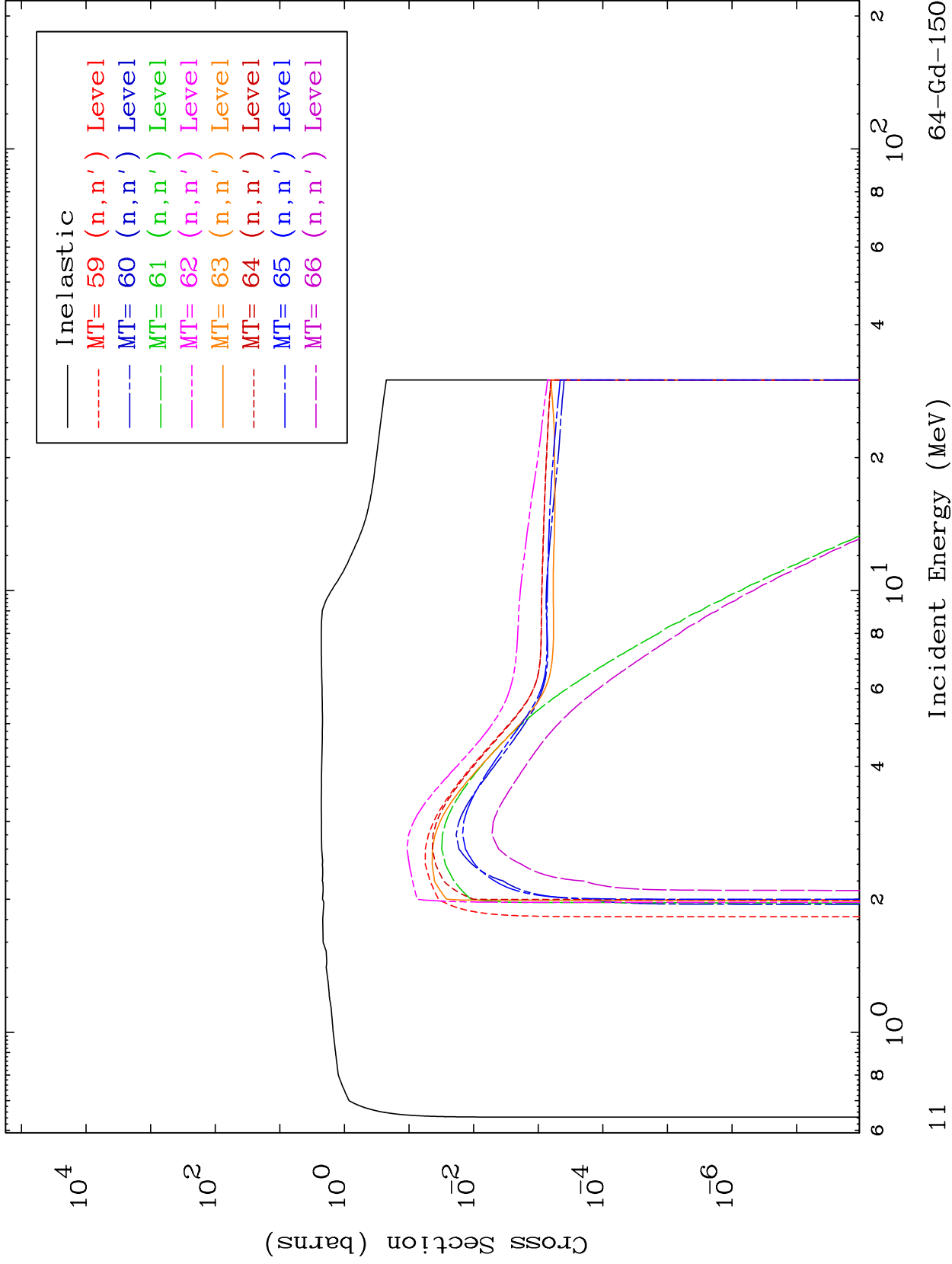
64-Gd-150

MAT 6419

(n,n') Levels

64-Gd-150

293 Kelvin Cross Sections

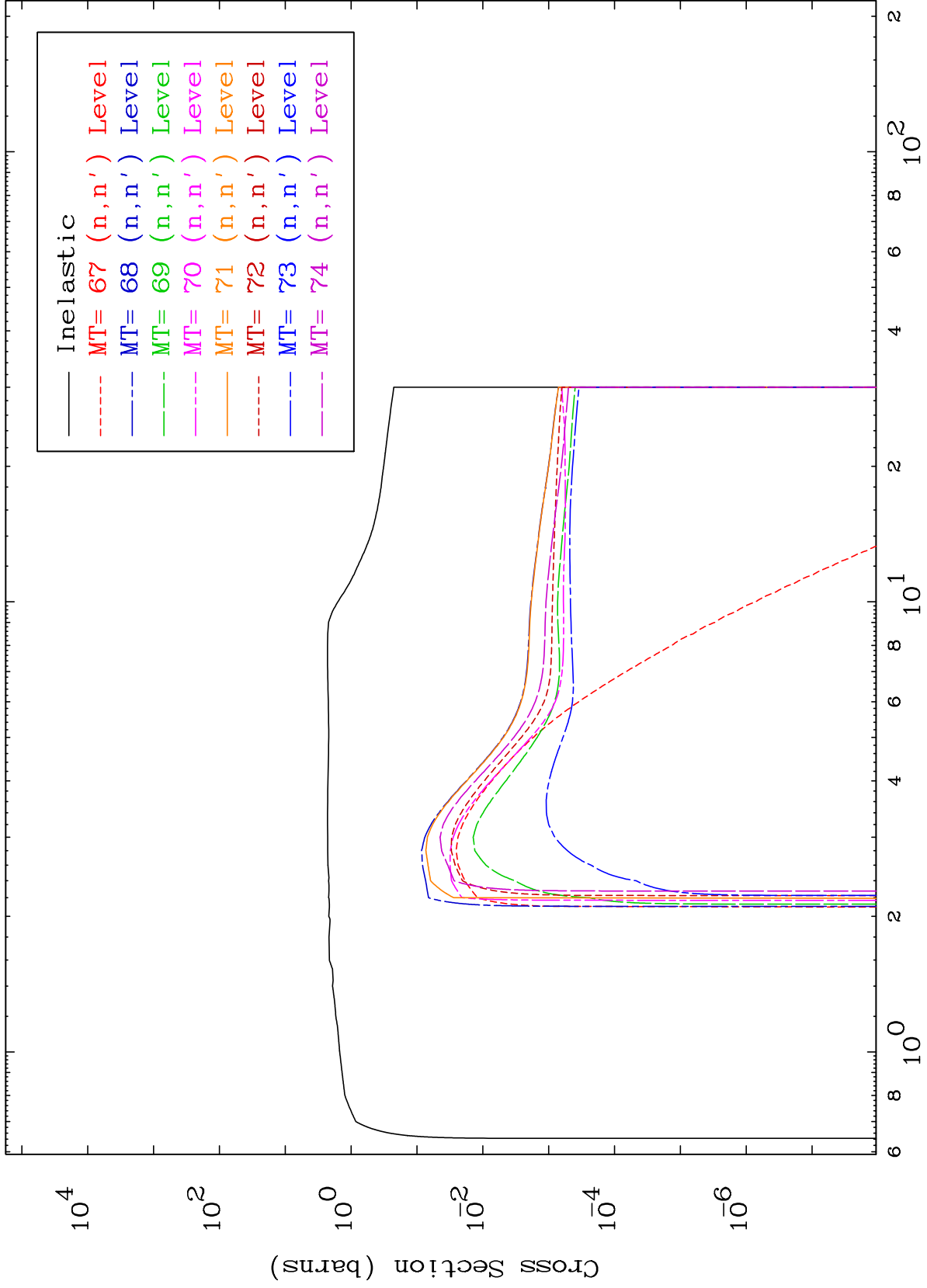


MAT 6419

(n,n') Levels

64-Gd-150

293 Kelvin Cross Sections



12

Incident Energy (MeV)

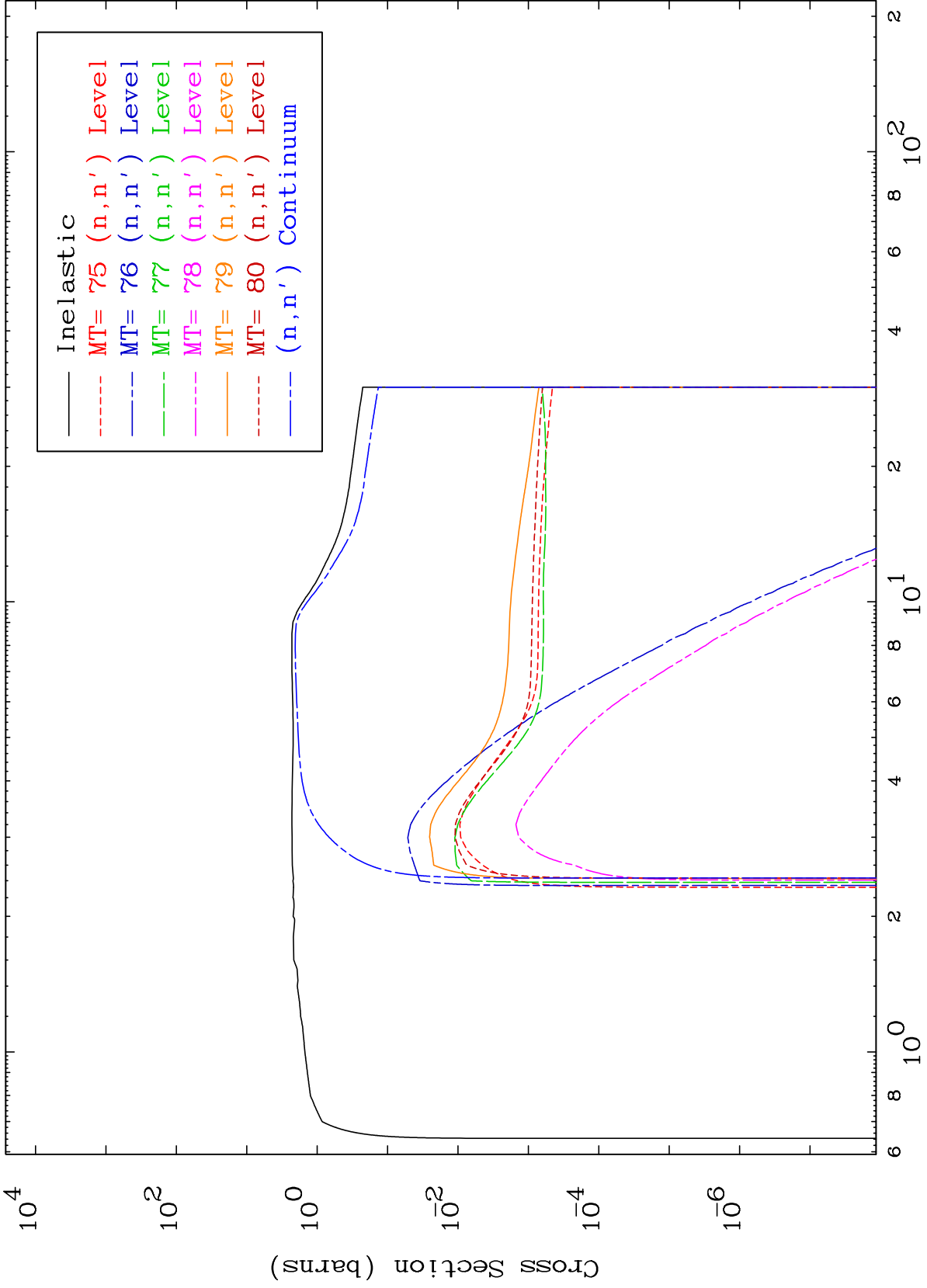
64-Gd-150

MAT 6419

(n,n') Levels

64-Gd-150

293 Kelvin Cross Sections



13

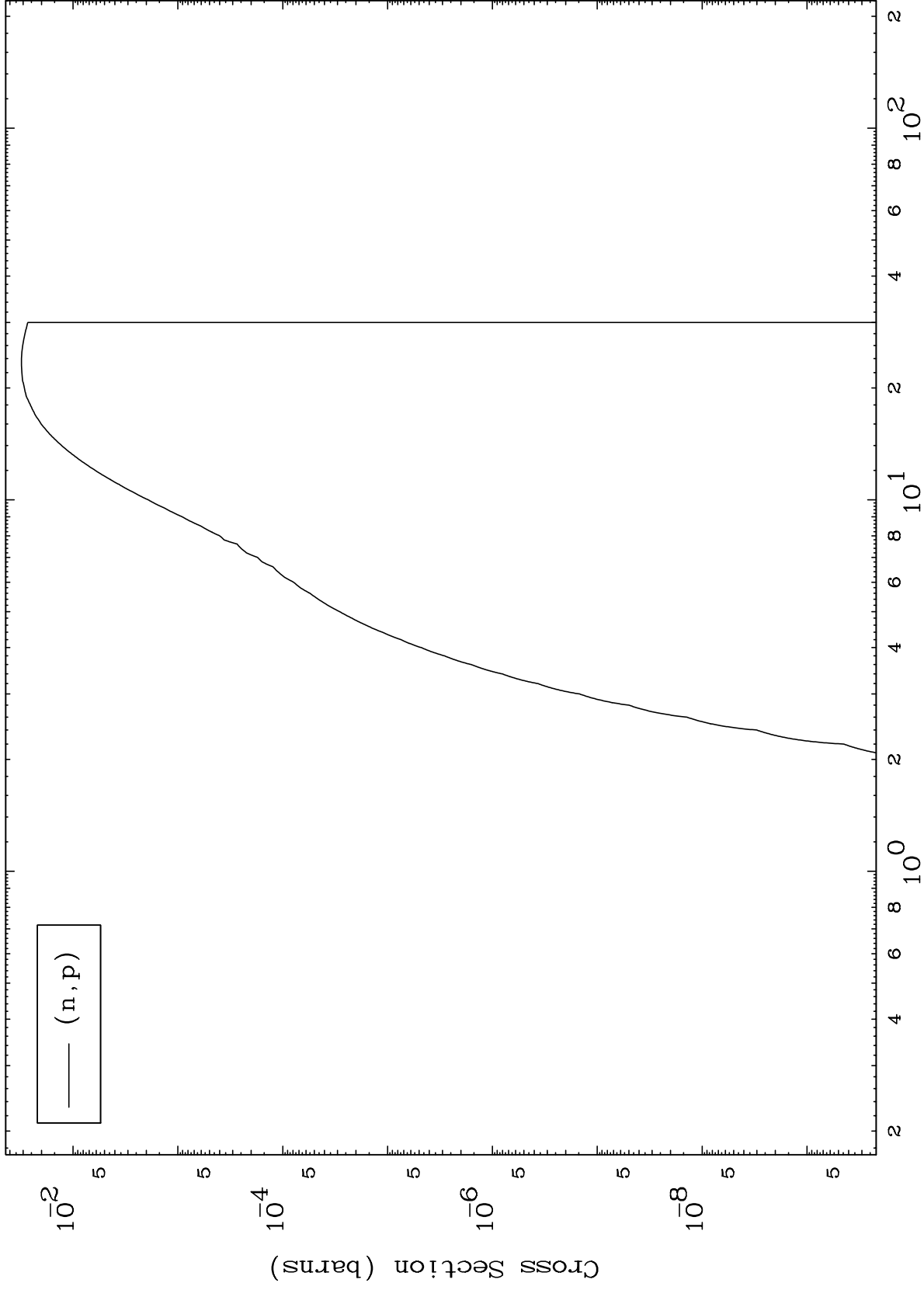
Incident Energy (MeV)

64-Gd-150

MAT 6419

(n,p) Levels
293 Kelvin Cross Sections

64-Gd-150



14

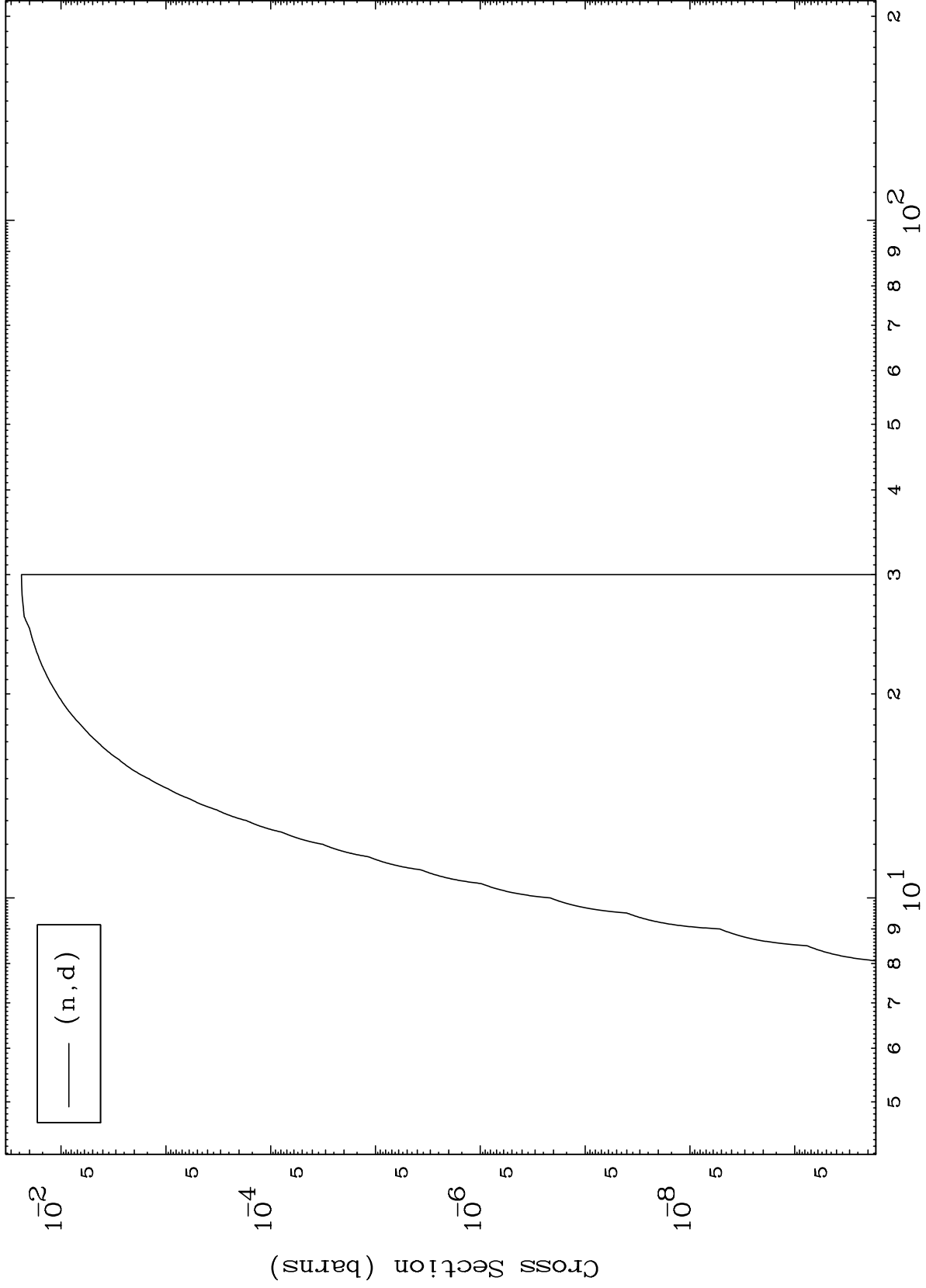
Incident Energy (MeV)

64-Gd-150

MAT 6419

(n,d) Levels
293 Kelvin Cross Sections

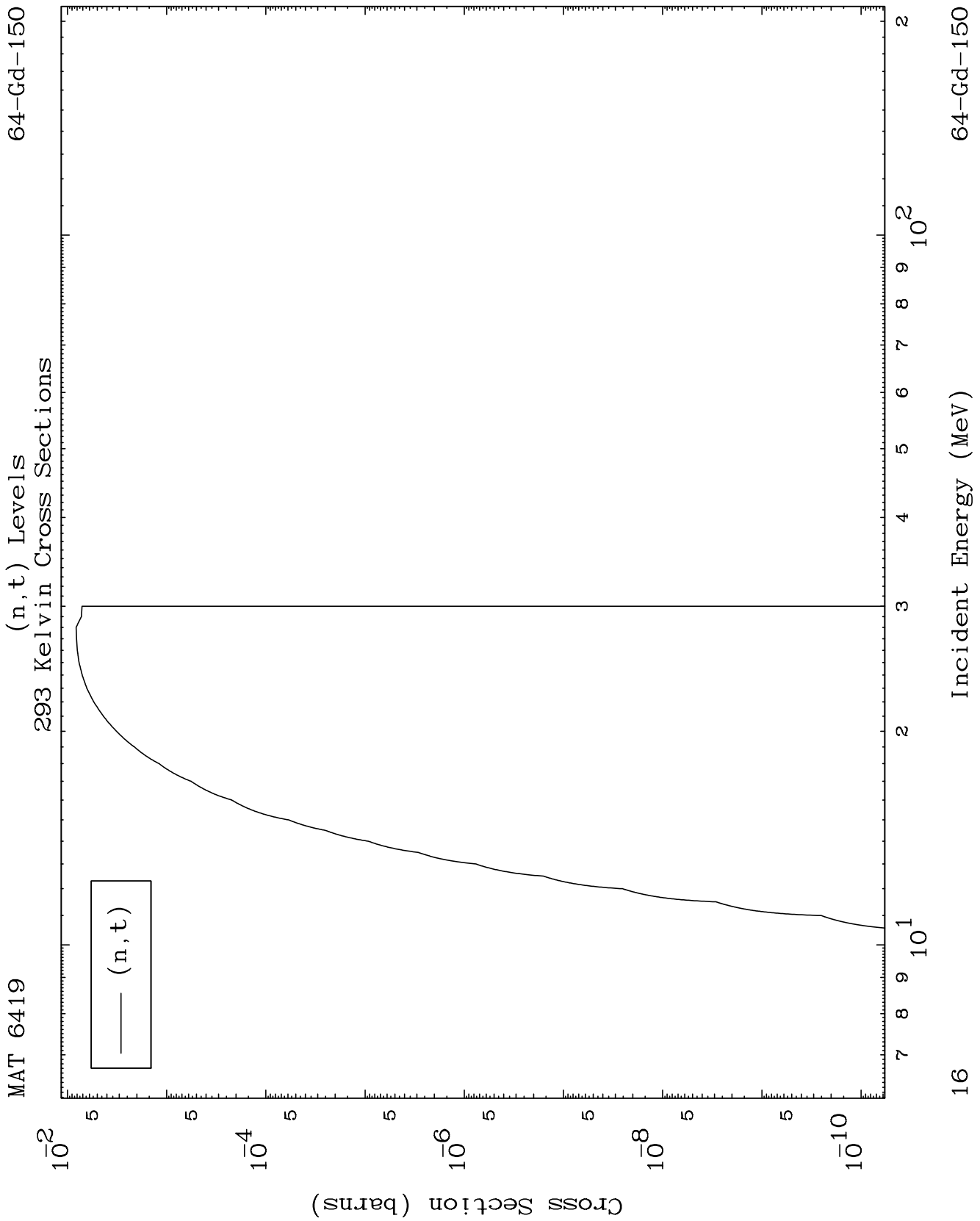
64-Gd-150



15

Incident Energy (MeV)

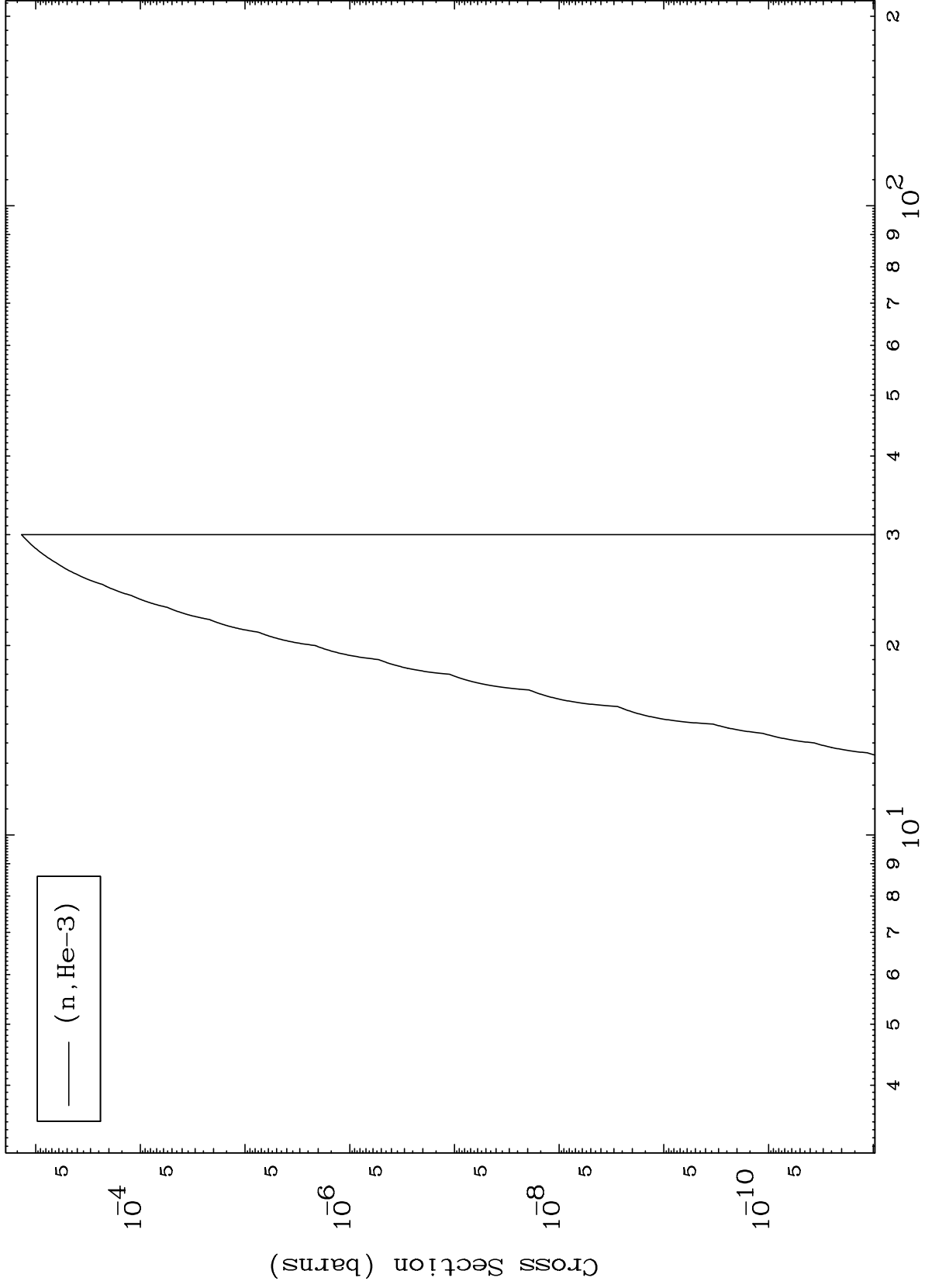
64-Gd-150



MAT 6419

(n,He3) Levels
293 Kelvin Cross Sections

64-Gd-150



17

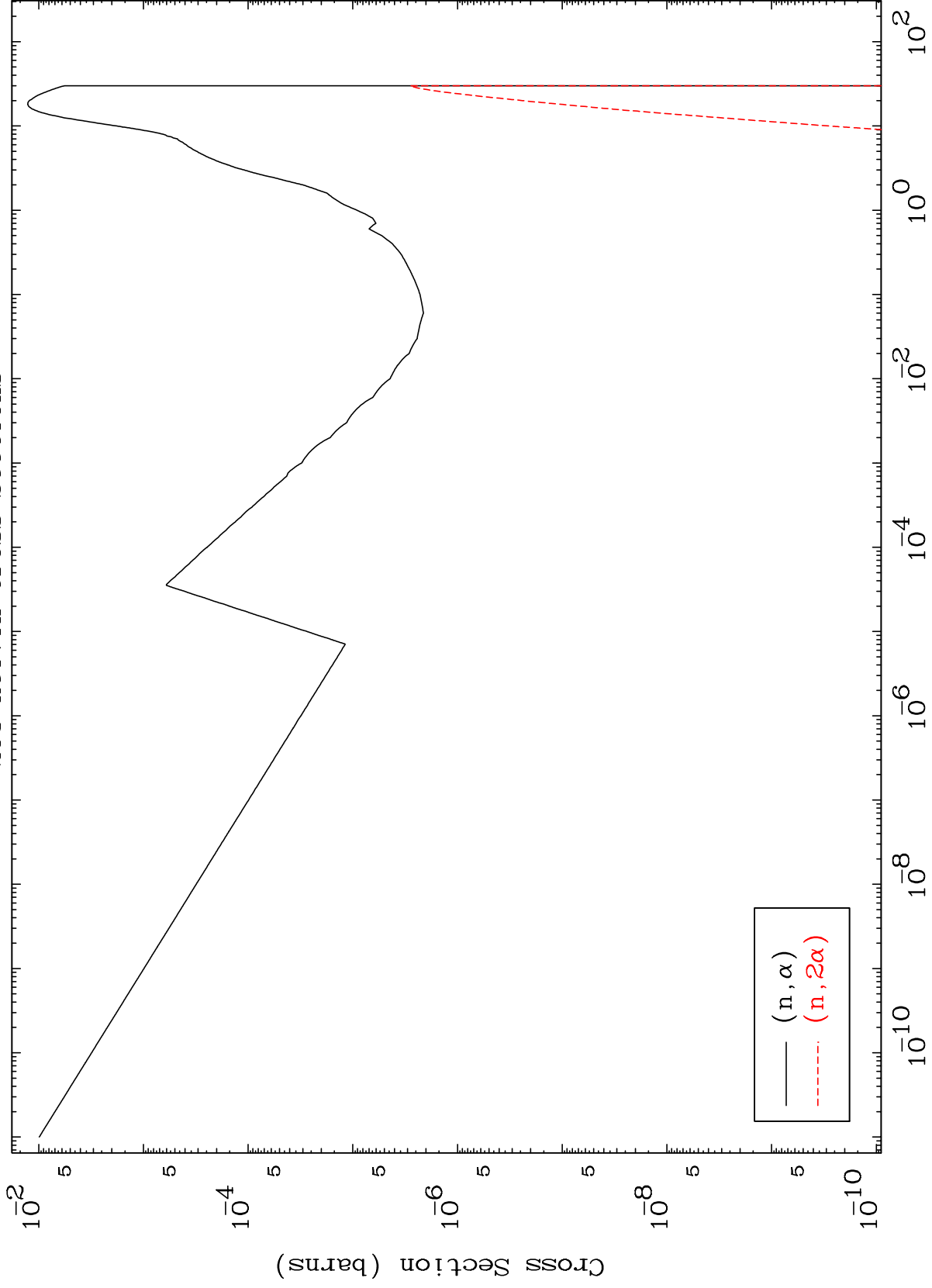
Incident Energy (MeV)

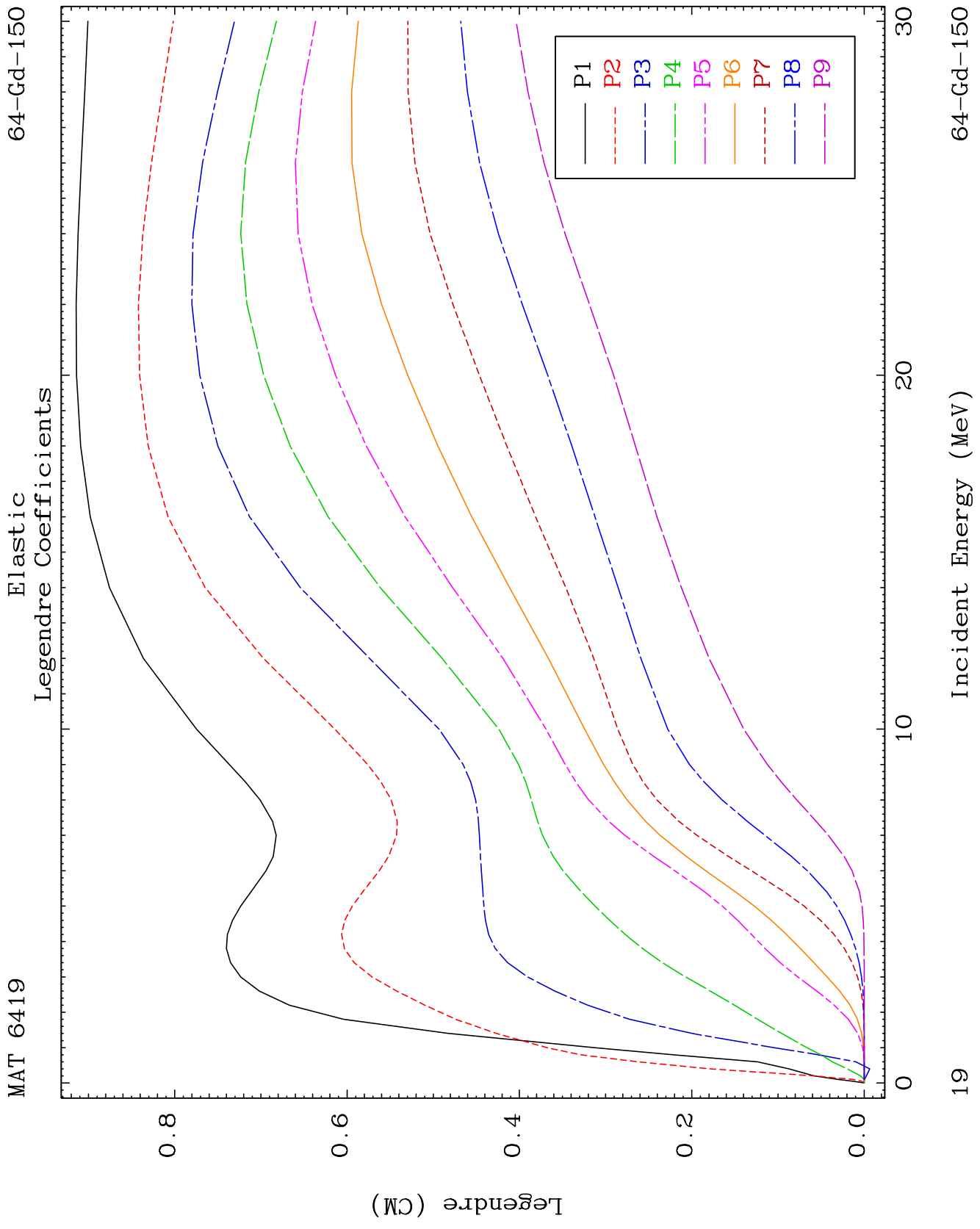
64-Gd-150

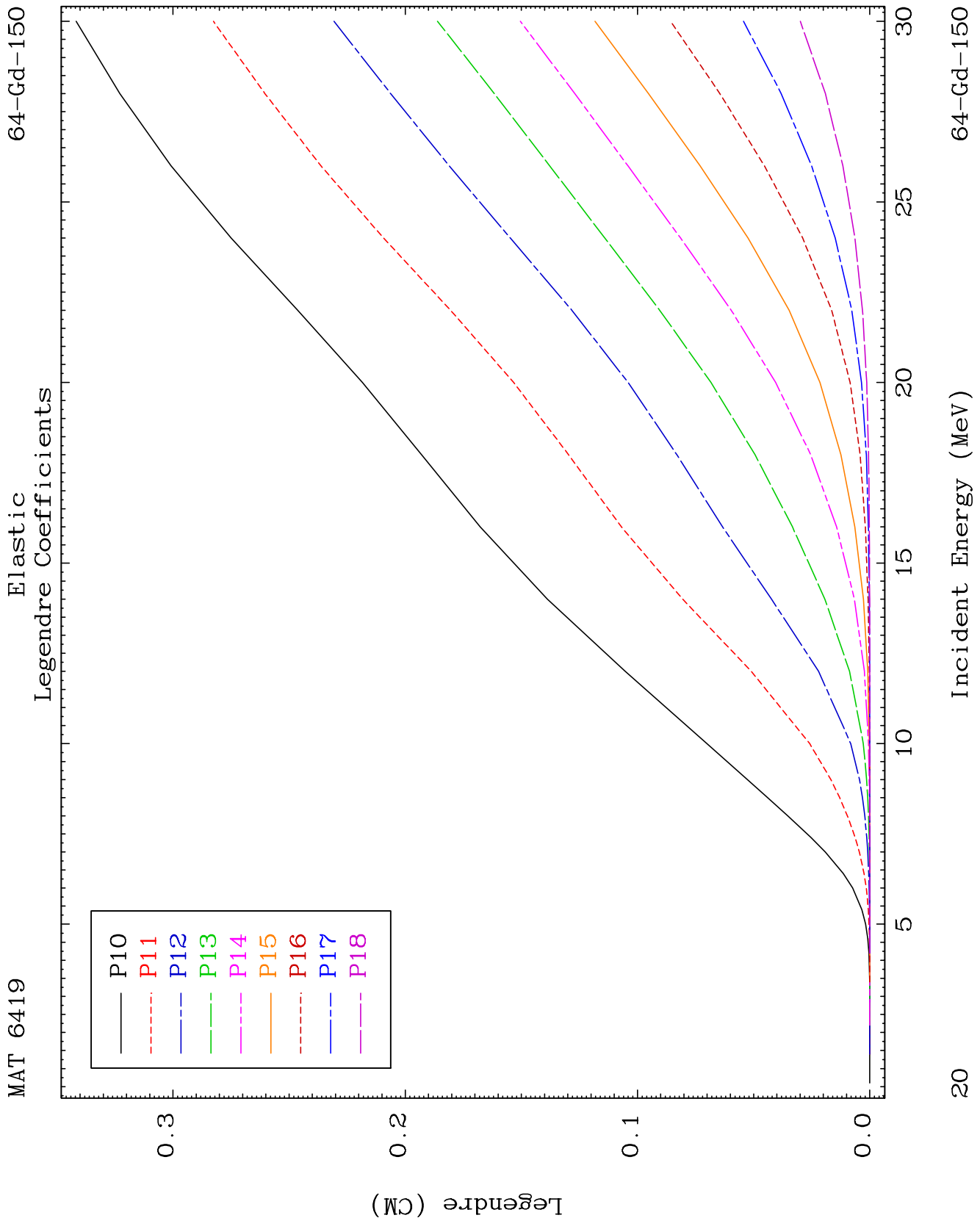
MAT 6419

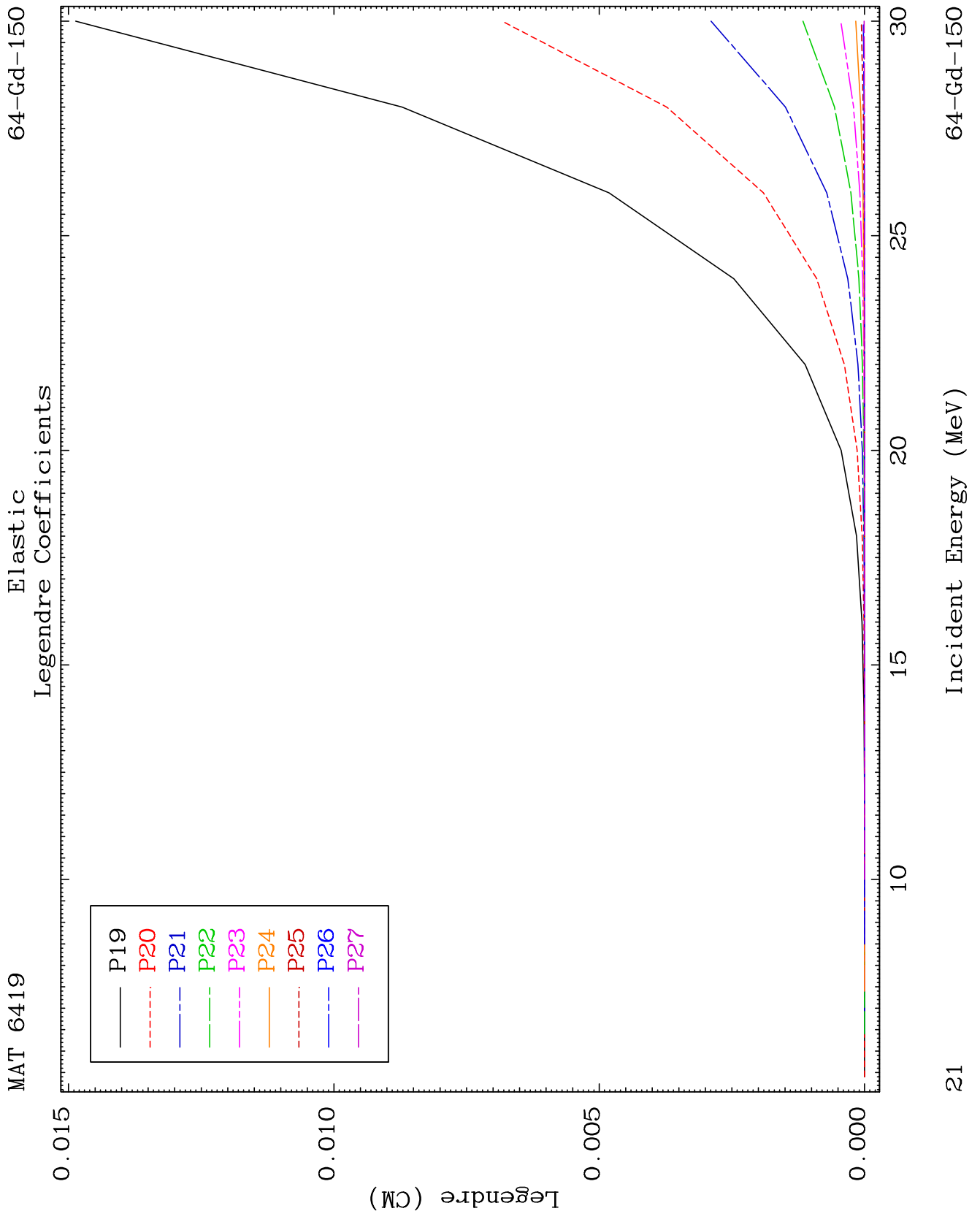
(n, α) Levels
293 Kelvin Cross Sections

64-Gd-150





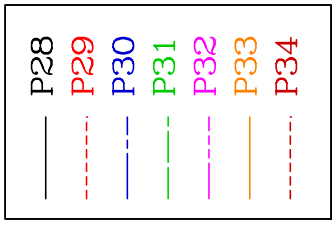




MAT 6419

Elastic Legendre Coefficients

64-Gd-150



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

Legendre (CM)

1.0

0.5

0.0

15

20

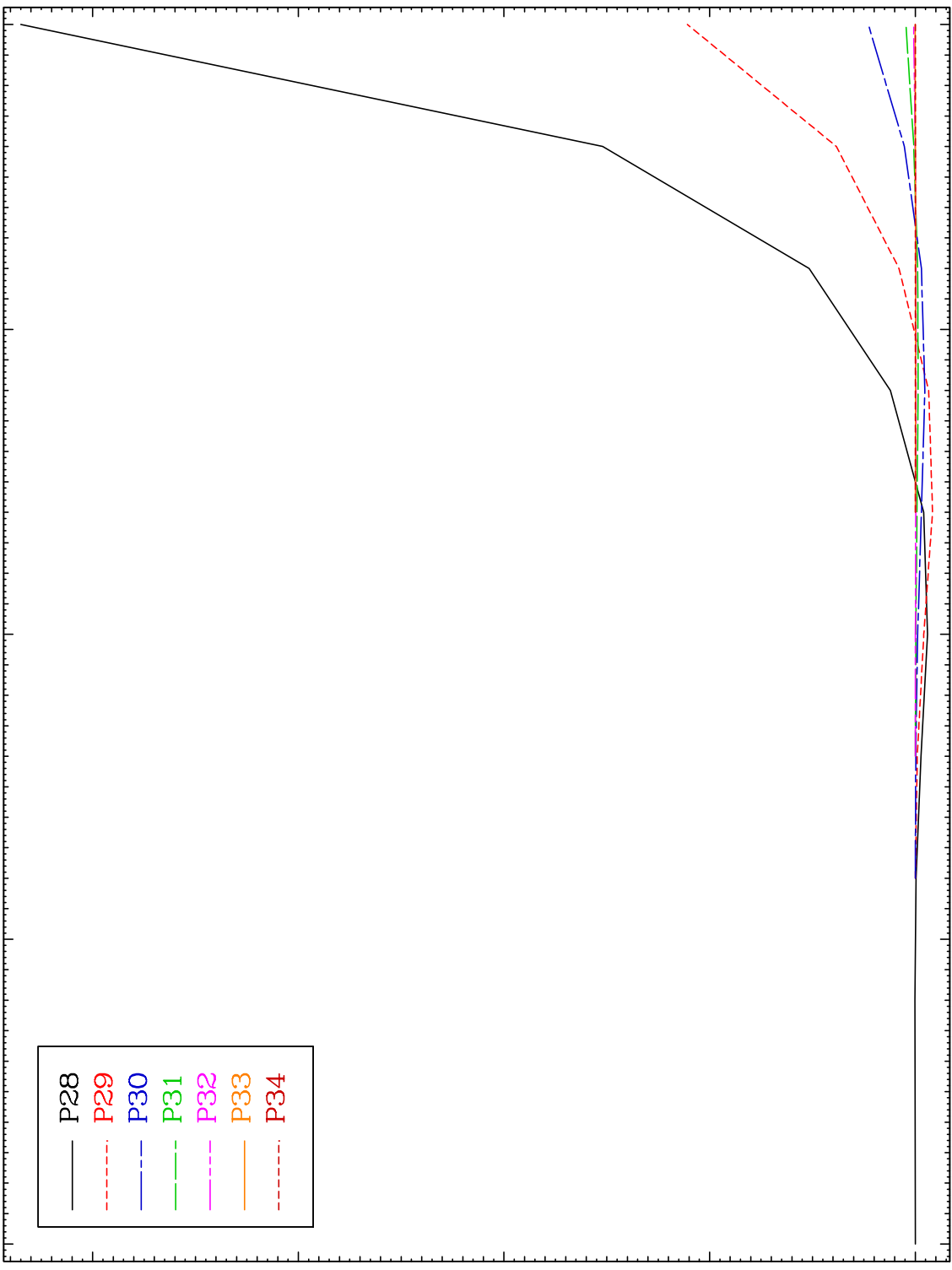
25

30

22

Incident Energy (MeV)

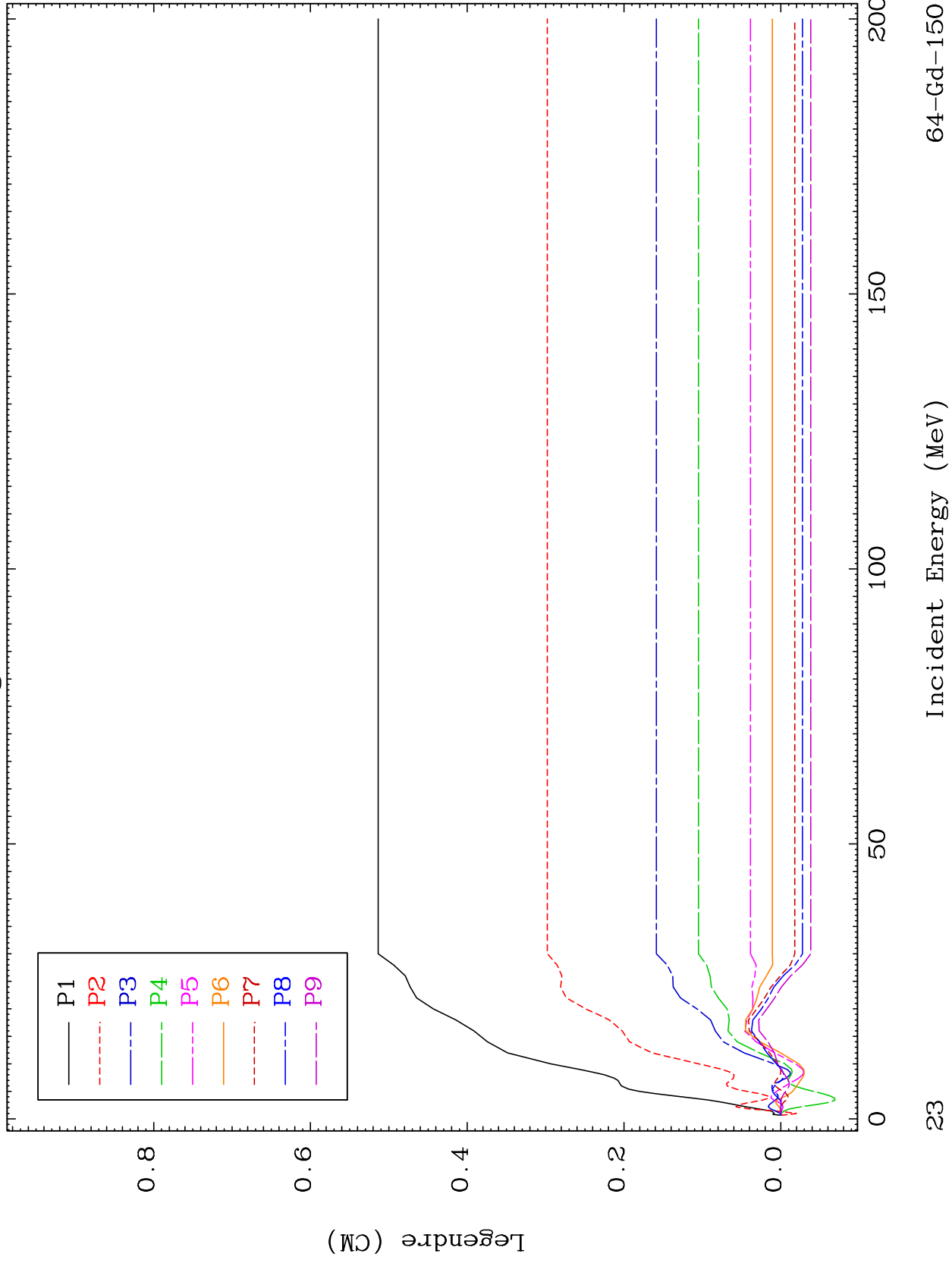
64-Gd-150



MAT 6419

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

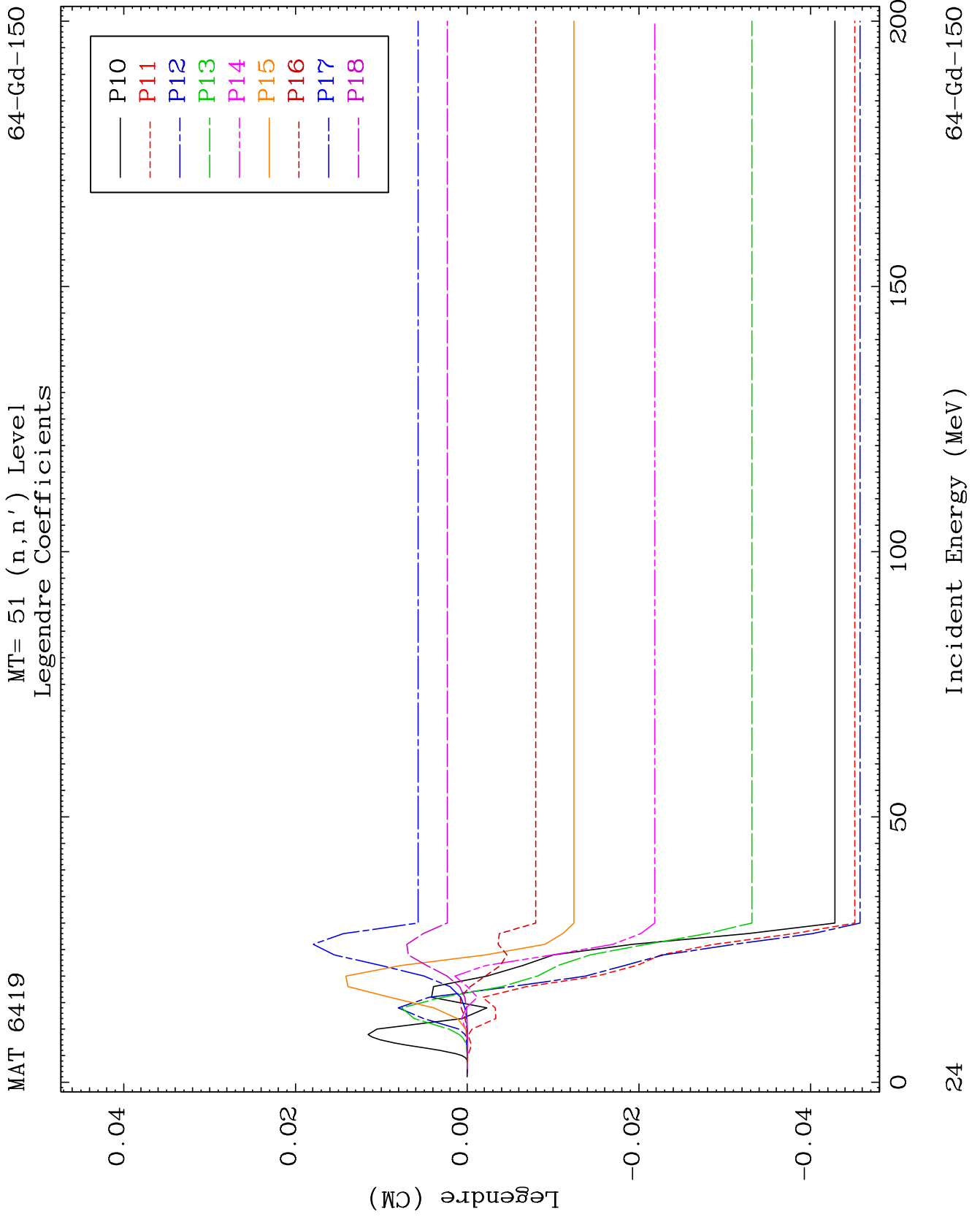
64-Gd-150



23

Incident Energy (MeV)

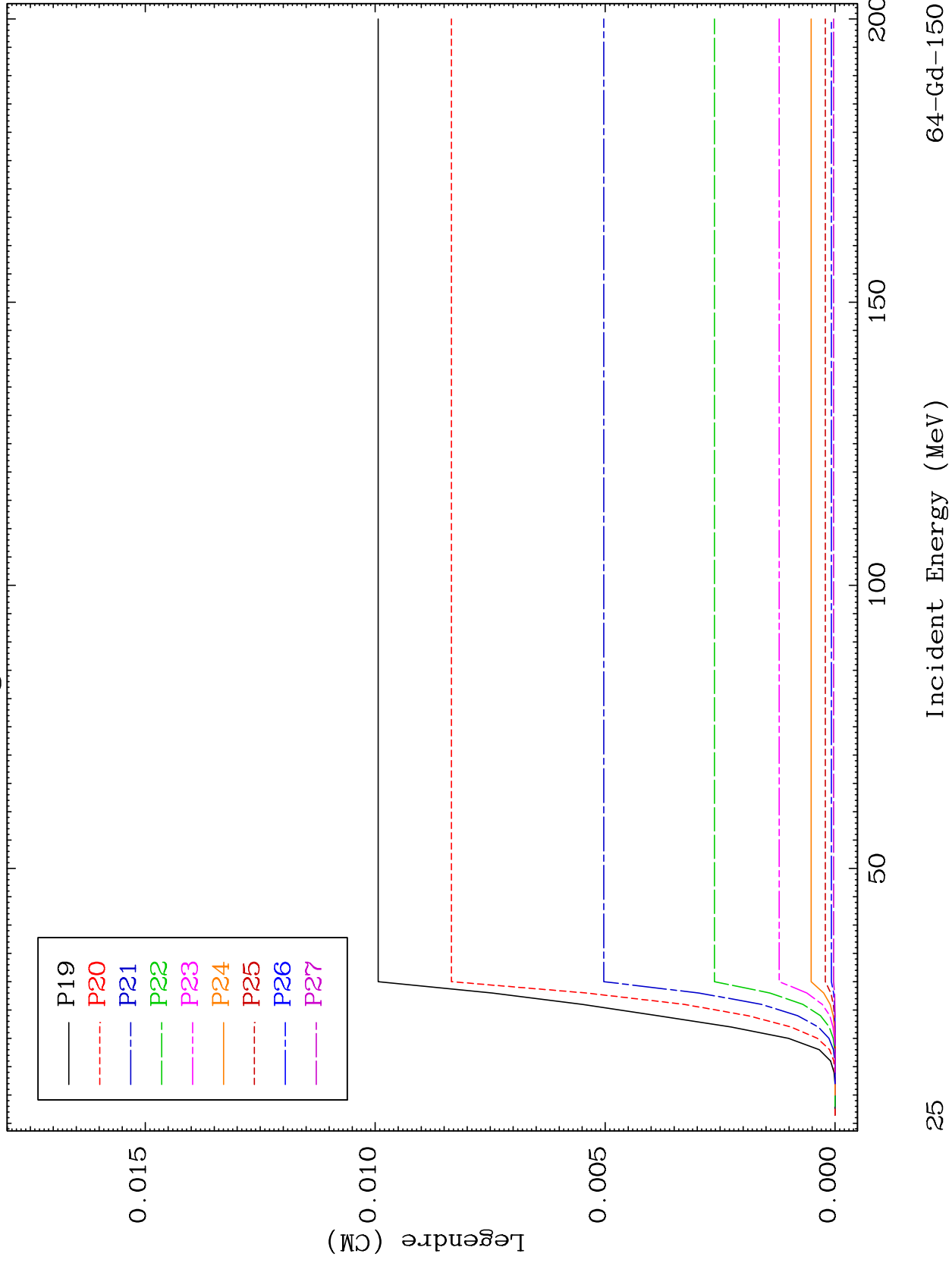
64-Gd-150



MAT 6419

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

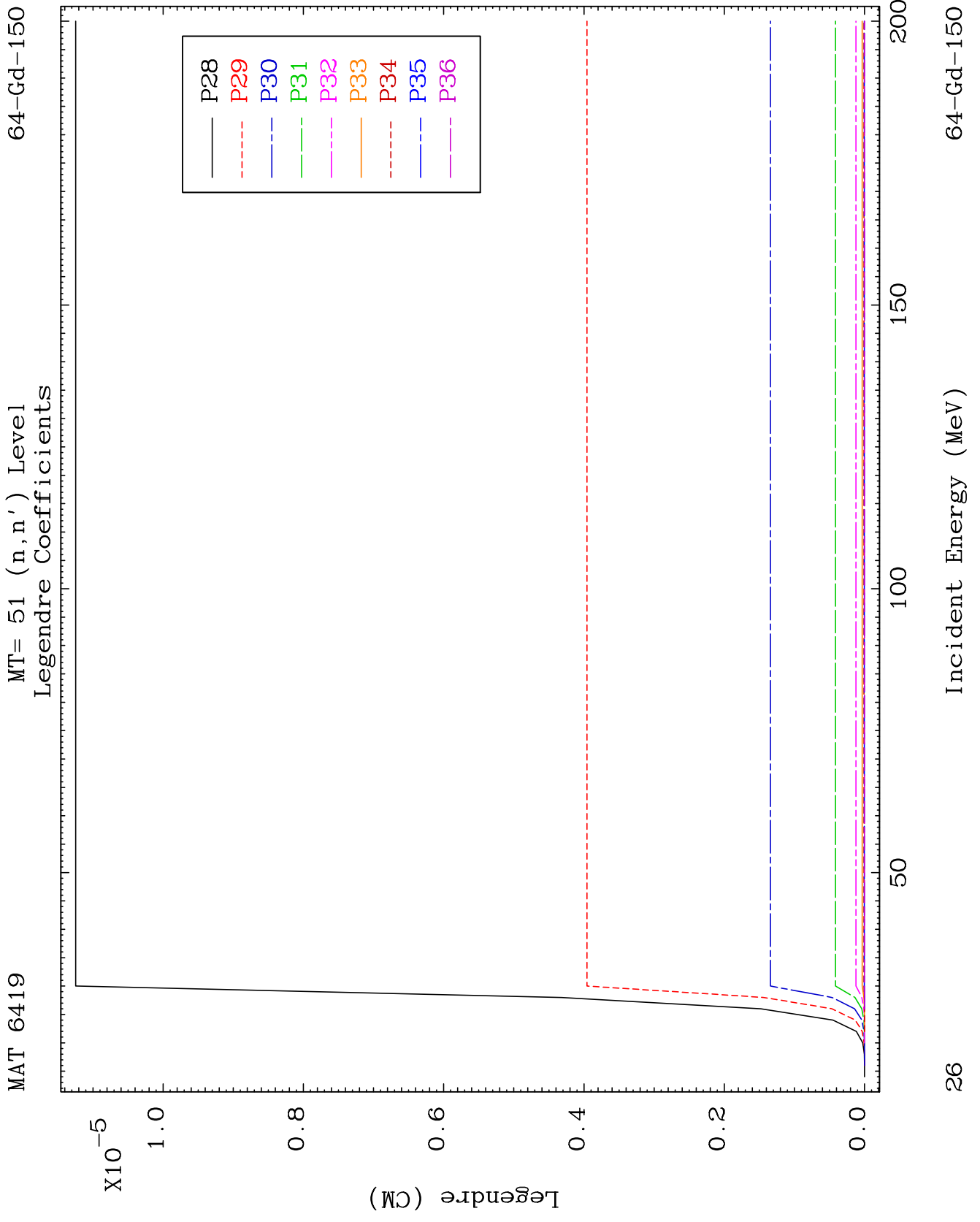
64-Gd-150



25

Incident Energy (MeV)

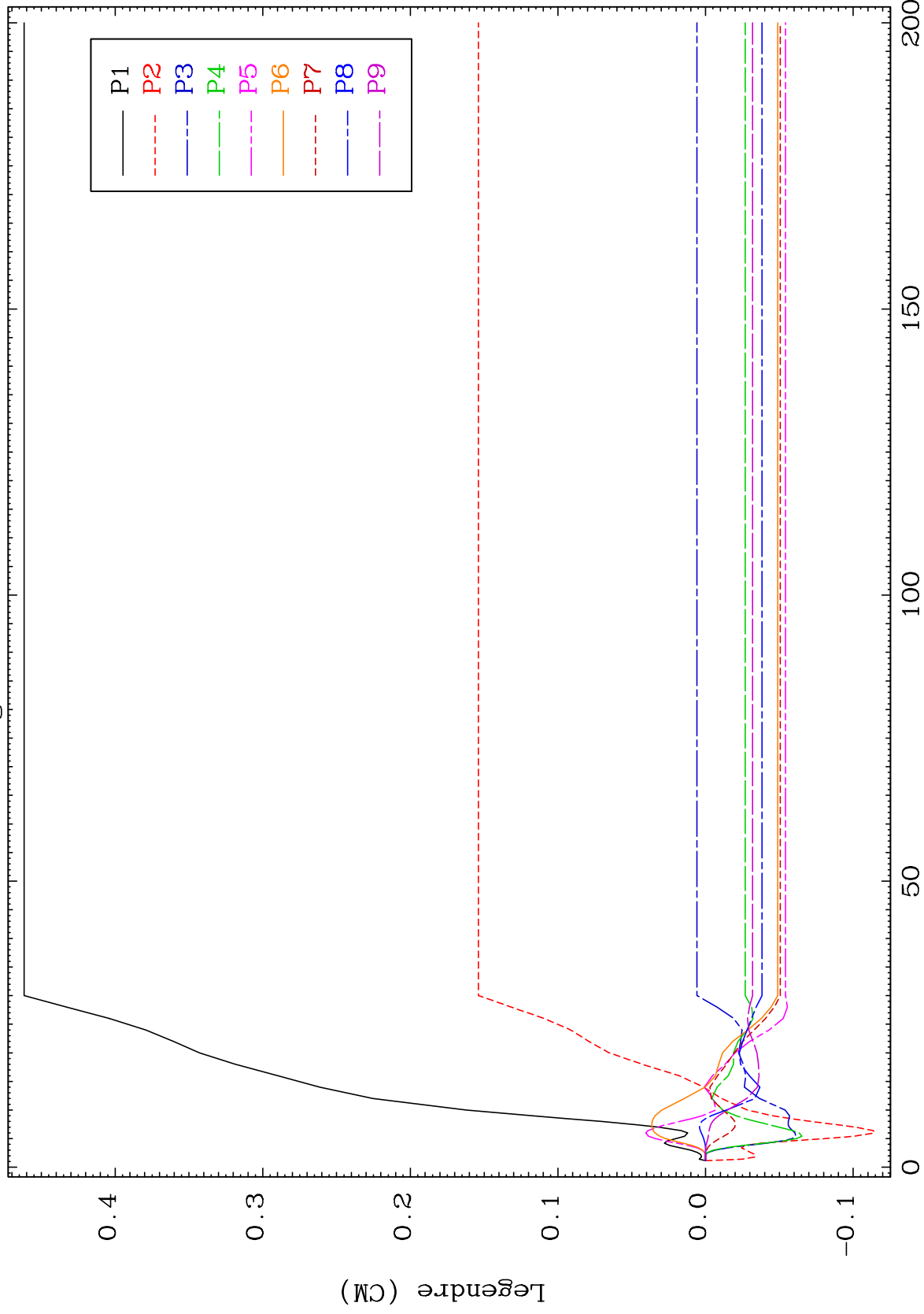
64-Gd-150



MAT 6419

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

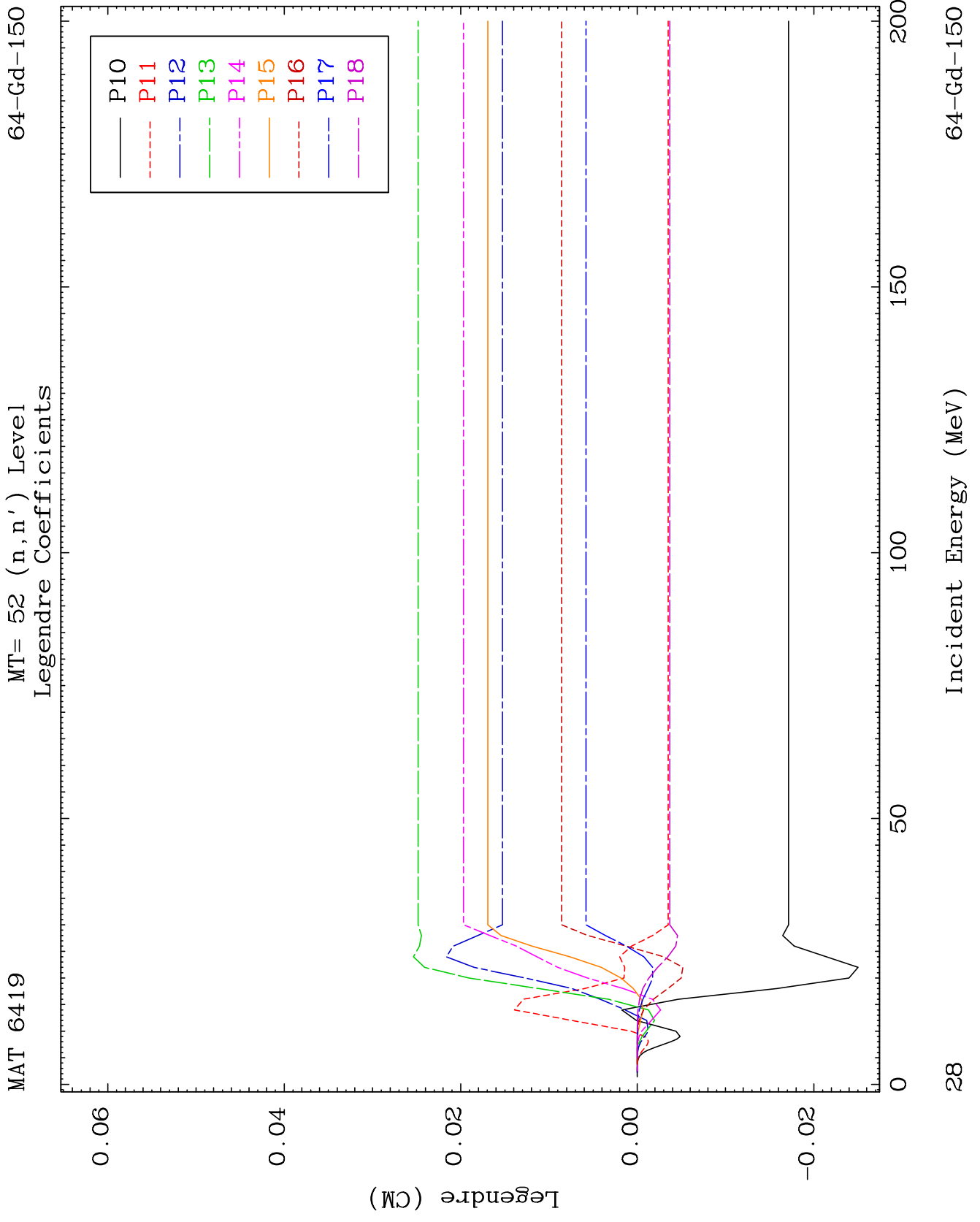
64-Gd-150



27

Incident Energy (MeV)

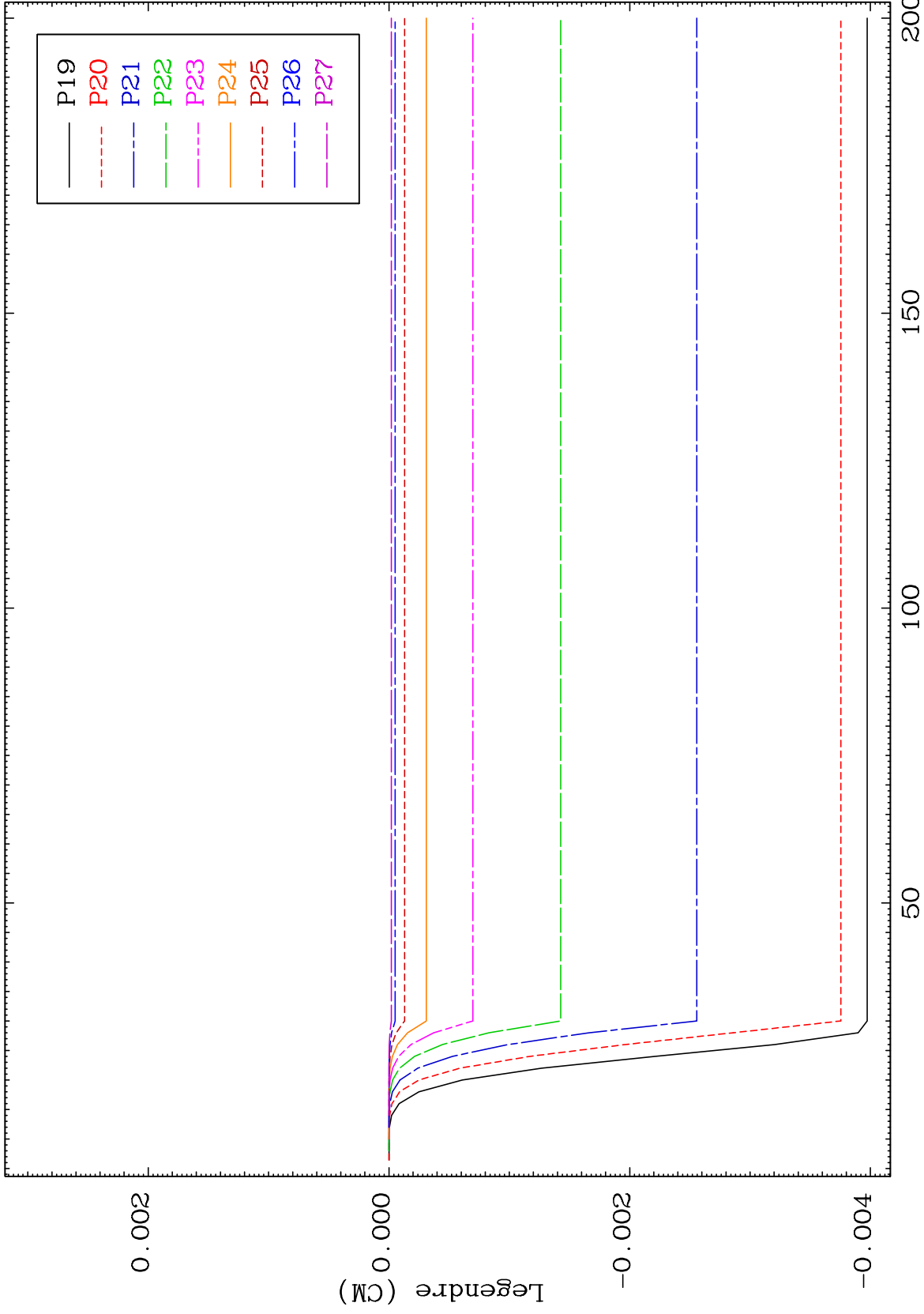
64-Gd-150



MAT 6419

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

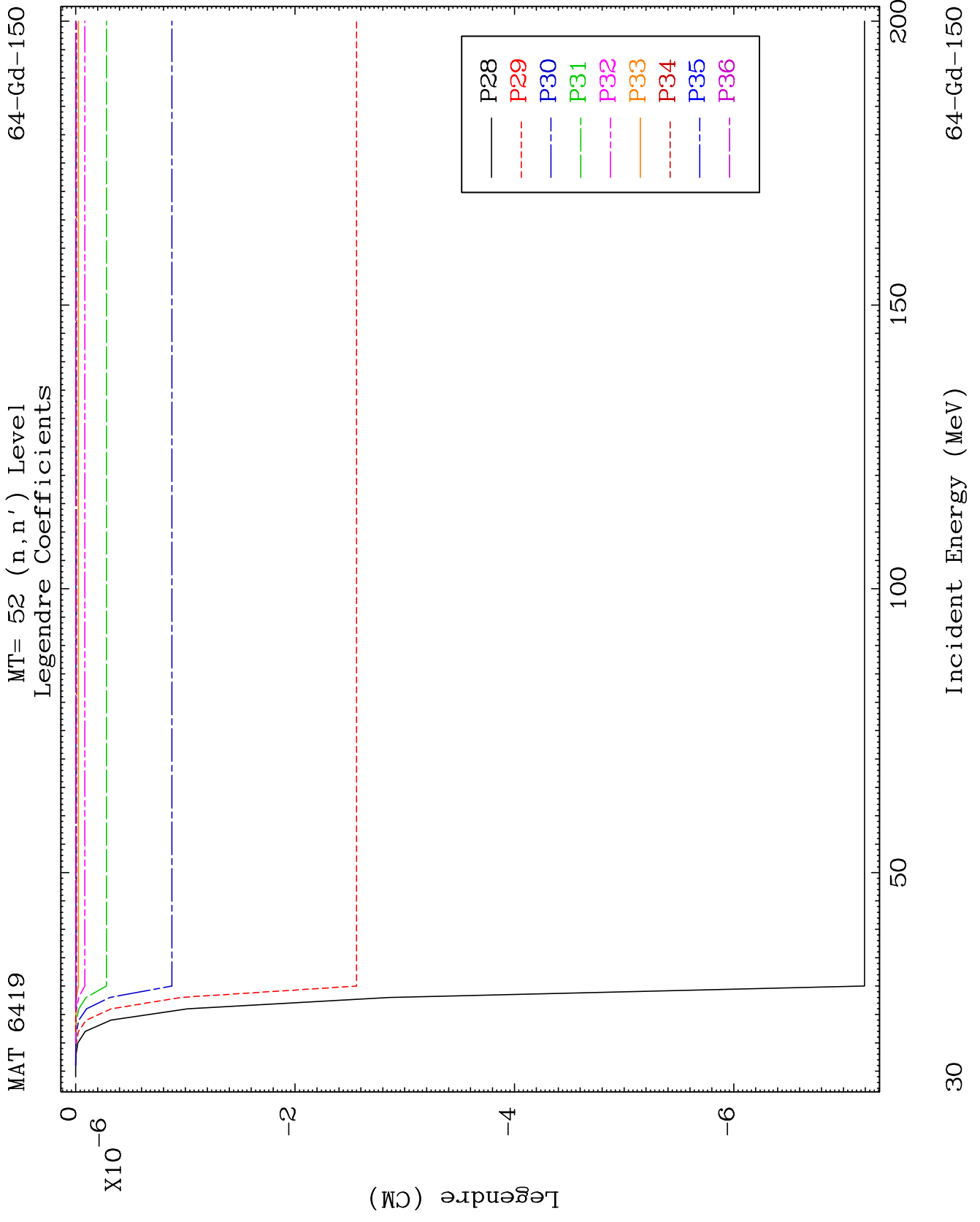
64-Gd-150

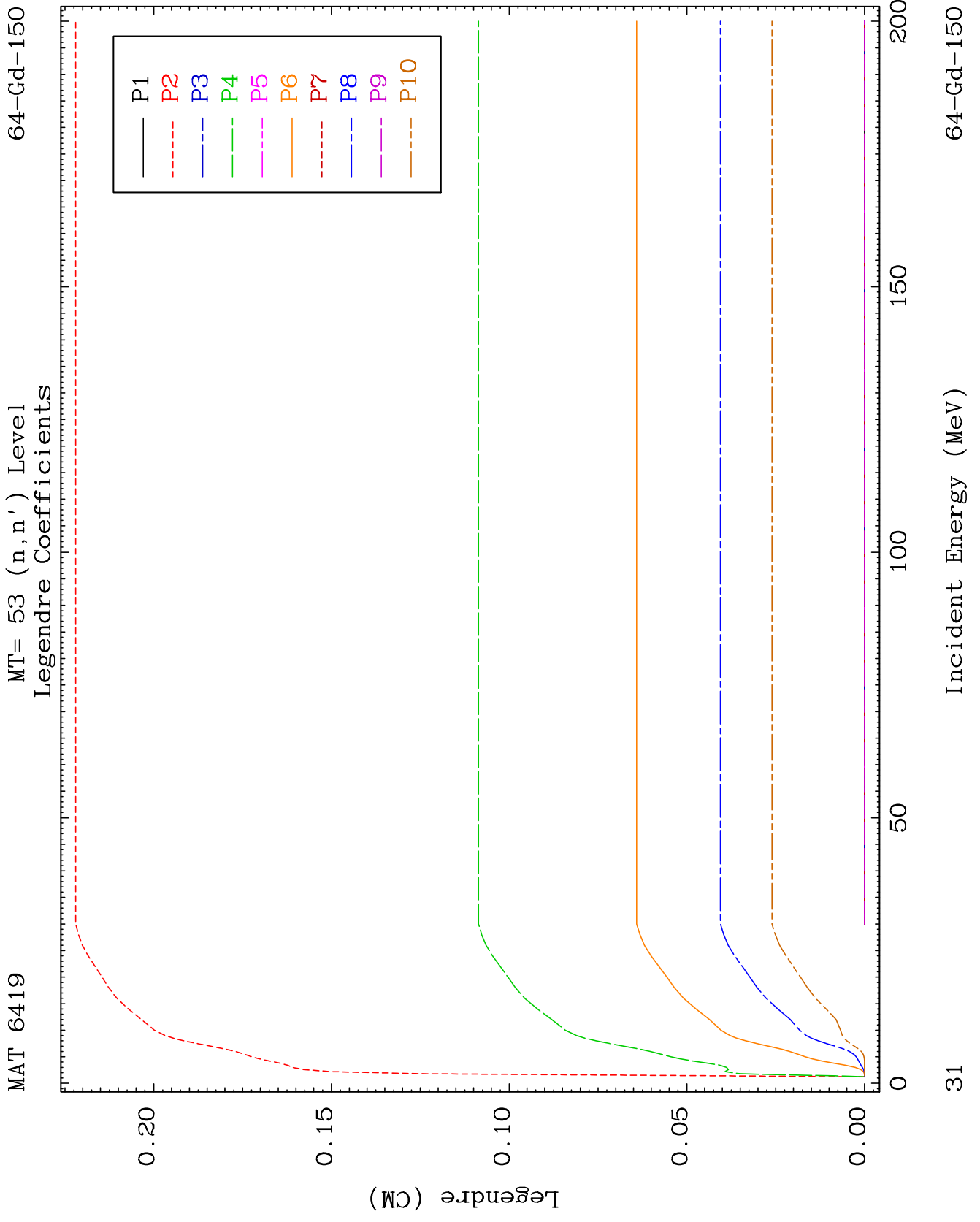


29

Incident Energy (MeV)

64-Gd-150

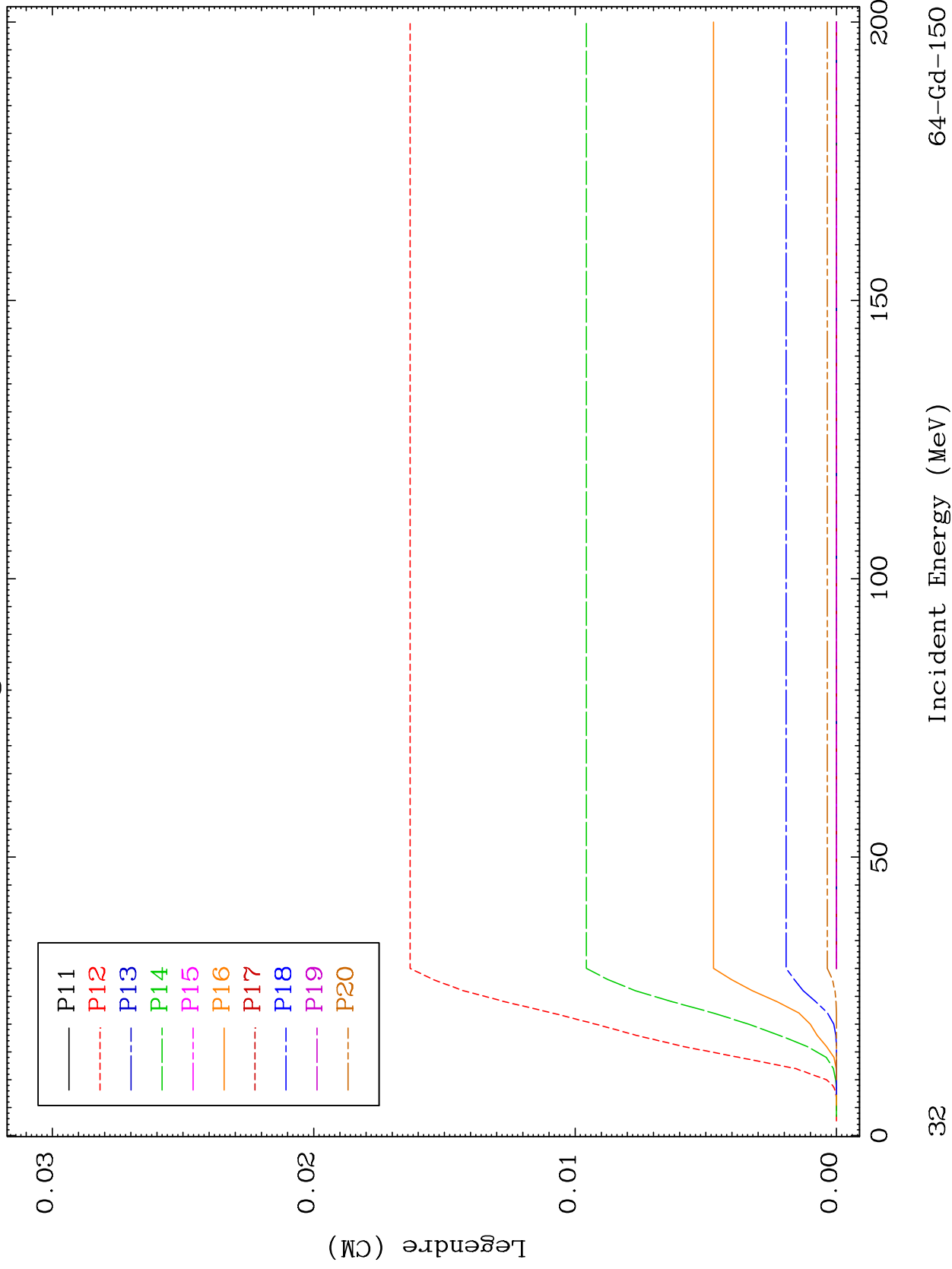




MAT 6419

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

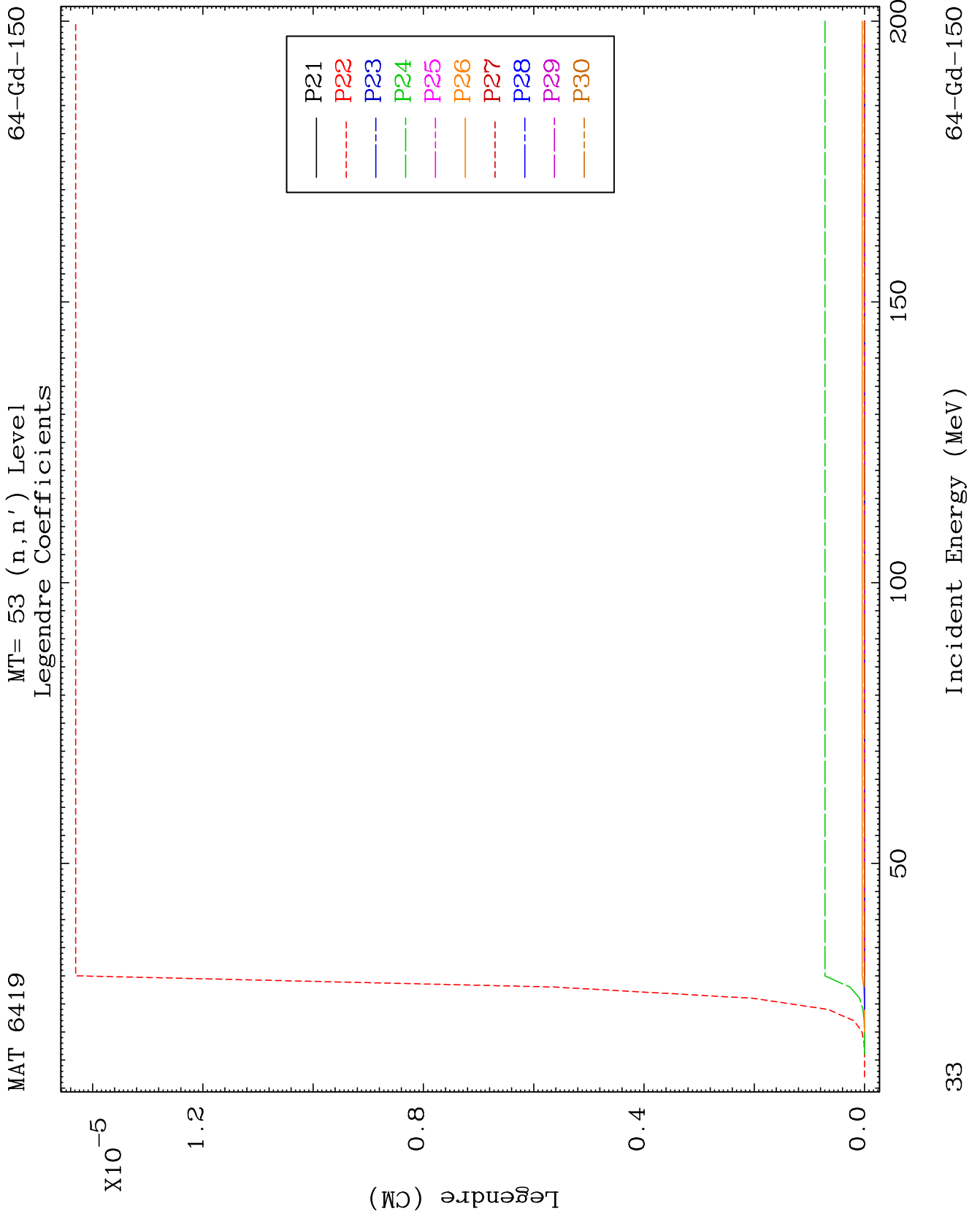
64-Gd-150



64-Gd-150

Incident Energy (MeV)

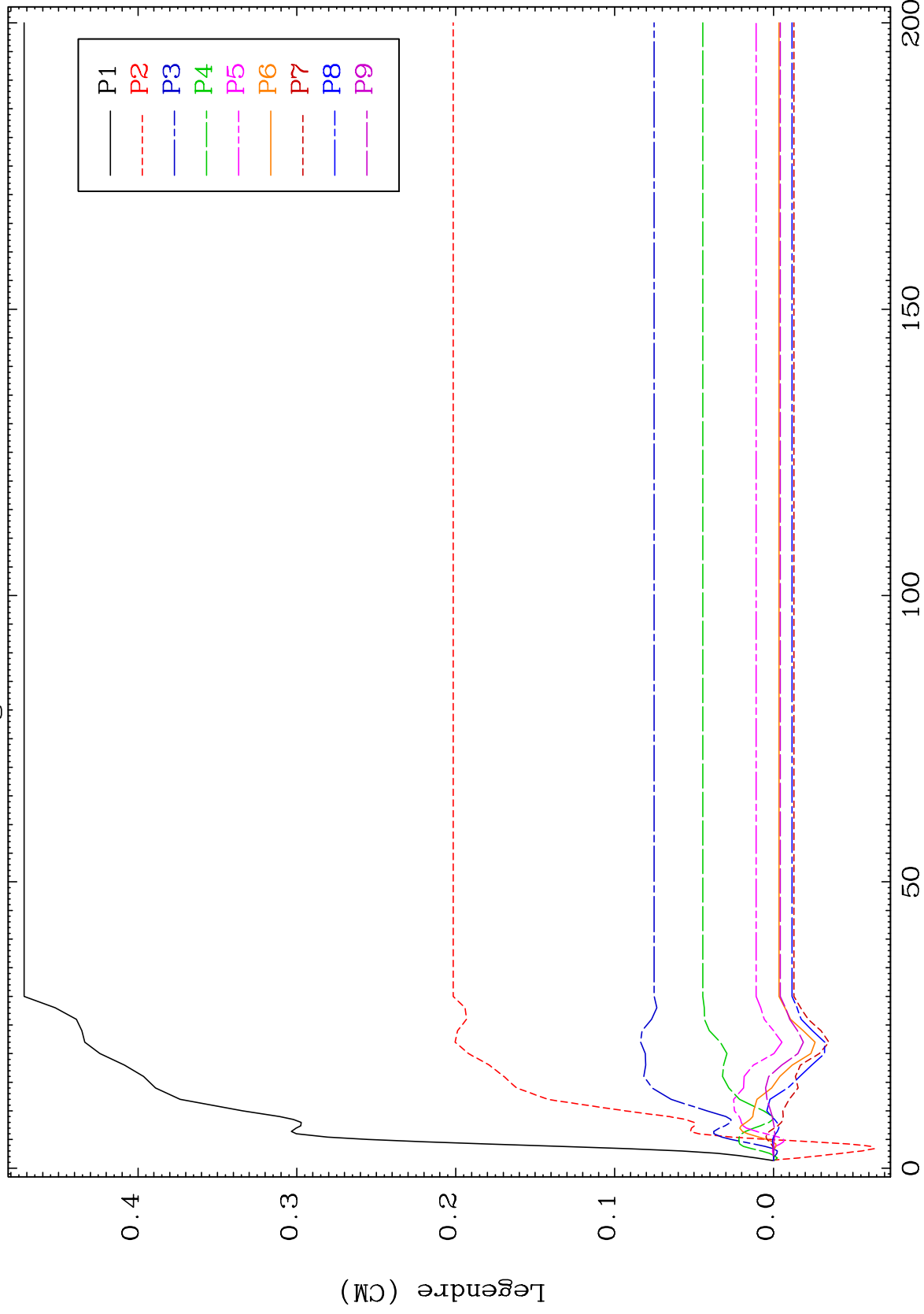
32



MAT 6419

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

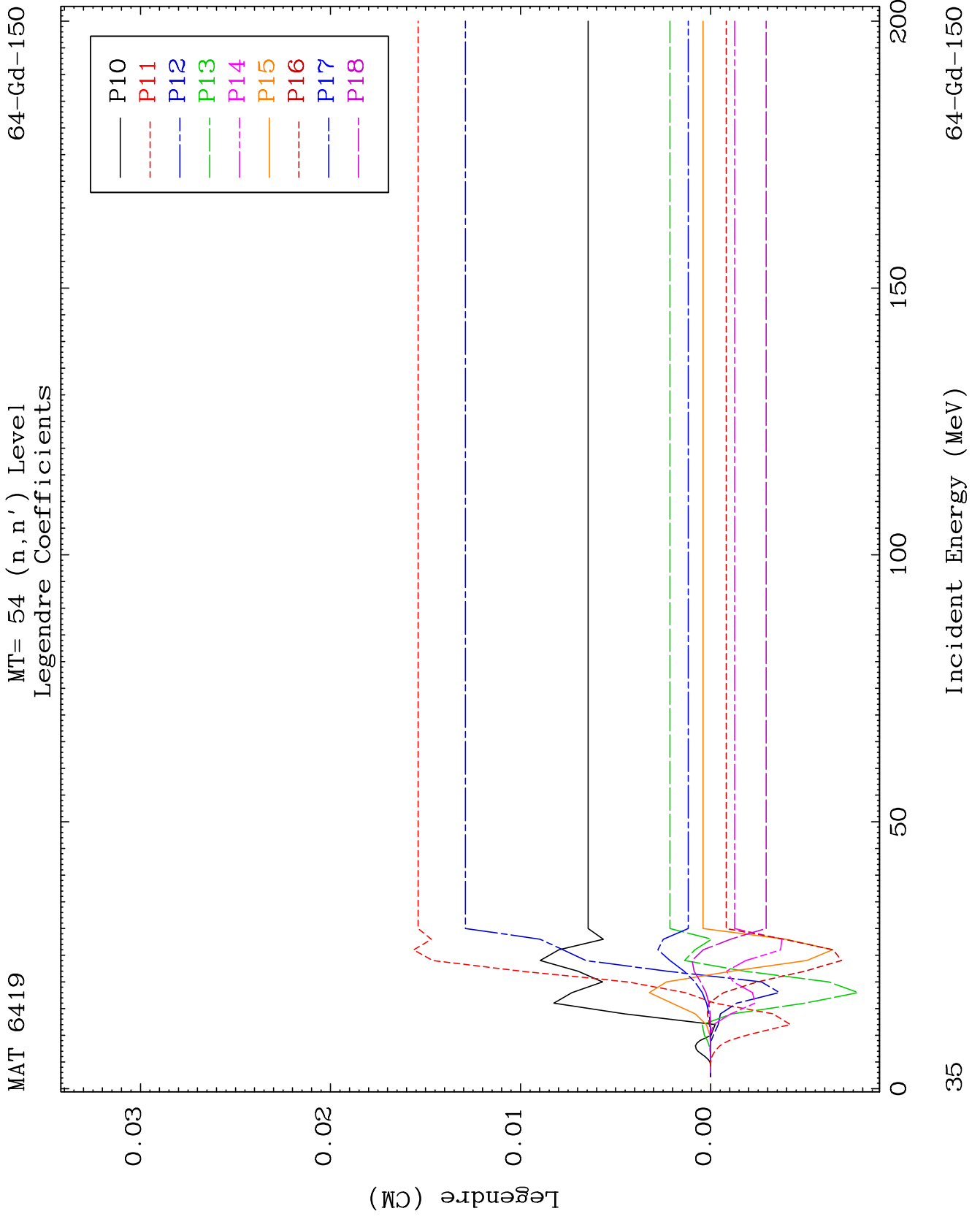
64-Gd-150



64-Gd-150

Incident Energy (MeV)

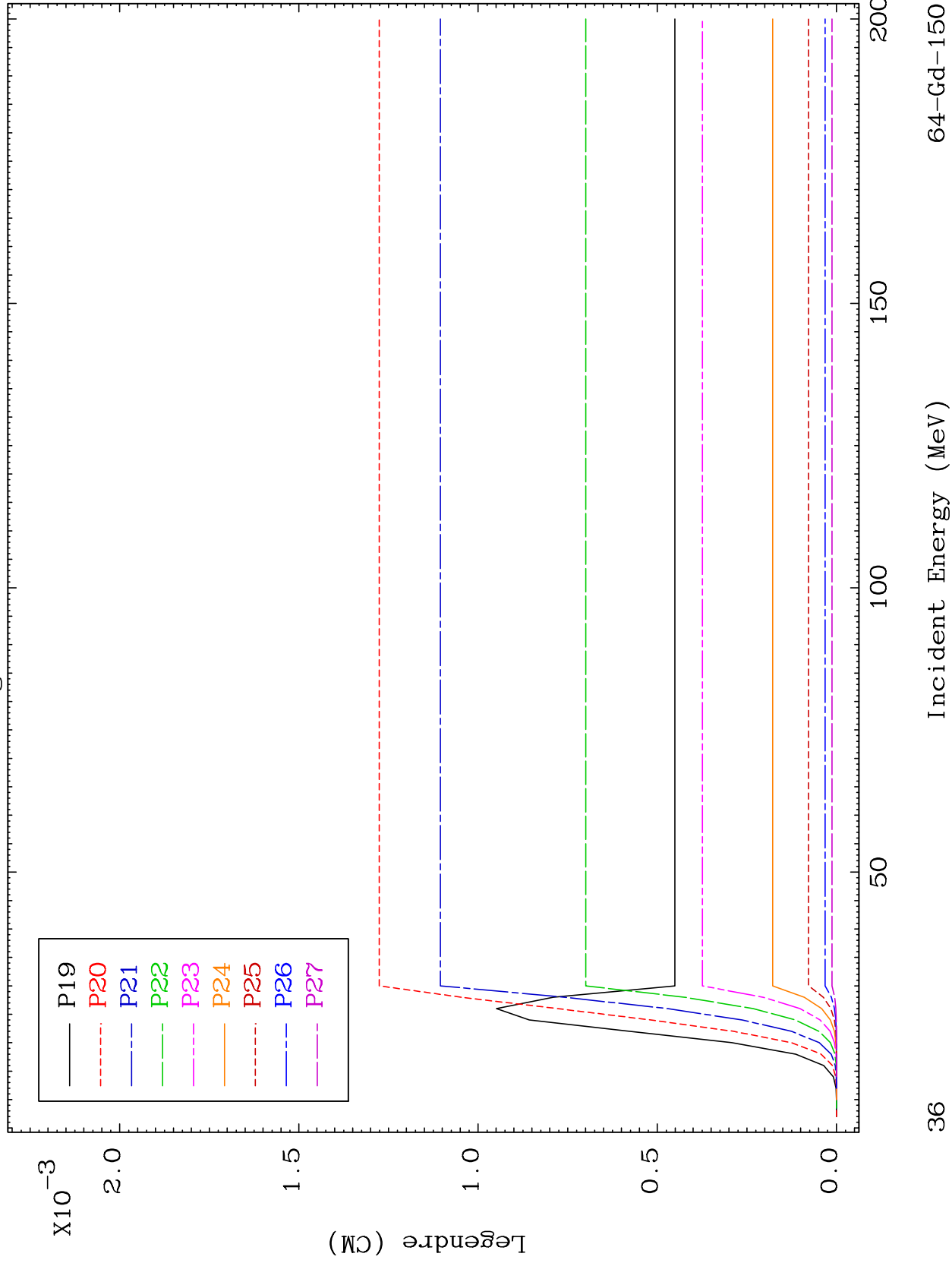
34



MAT 6419

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

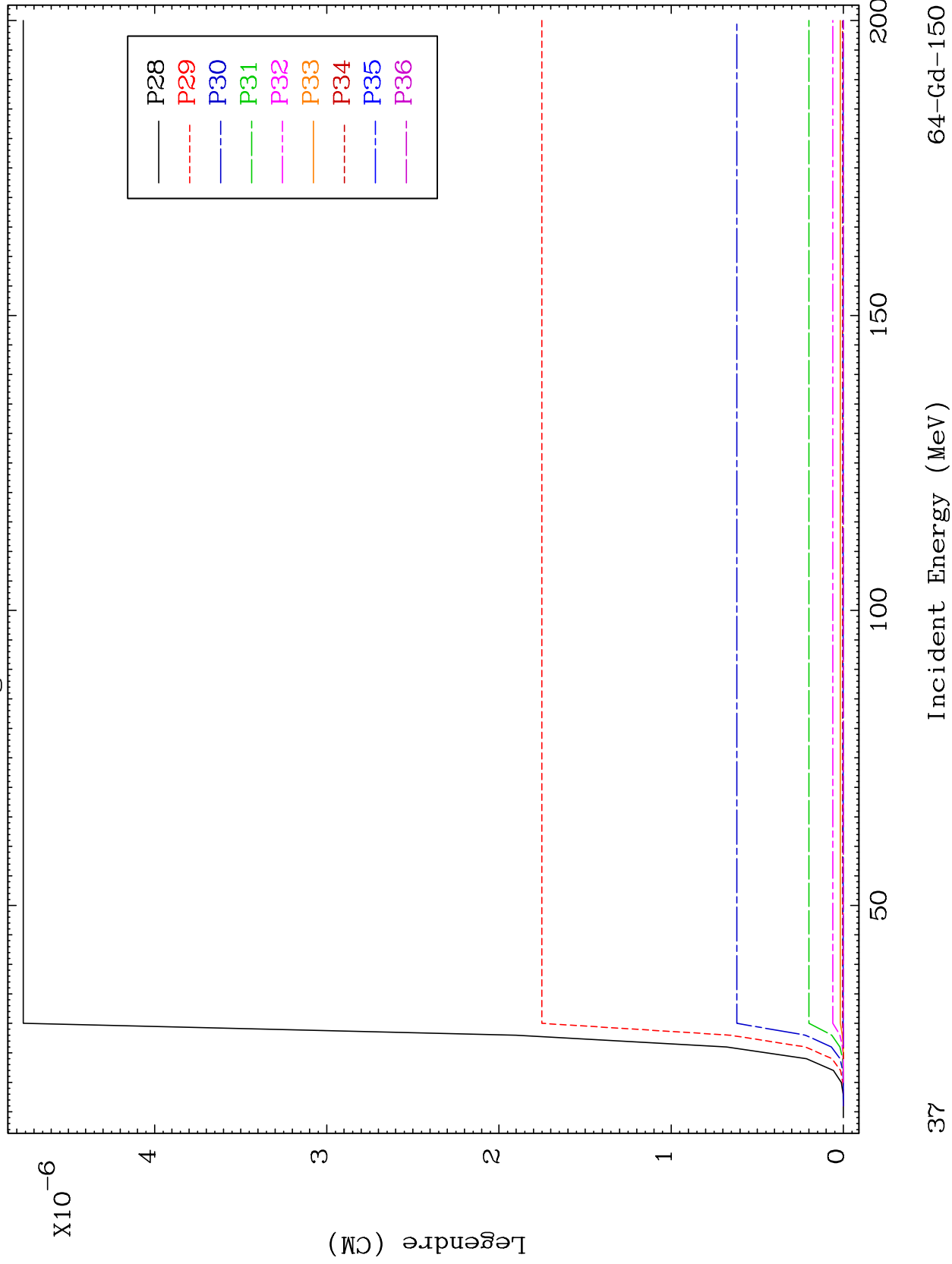
64-Gd-150



MAT 6419

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

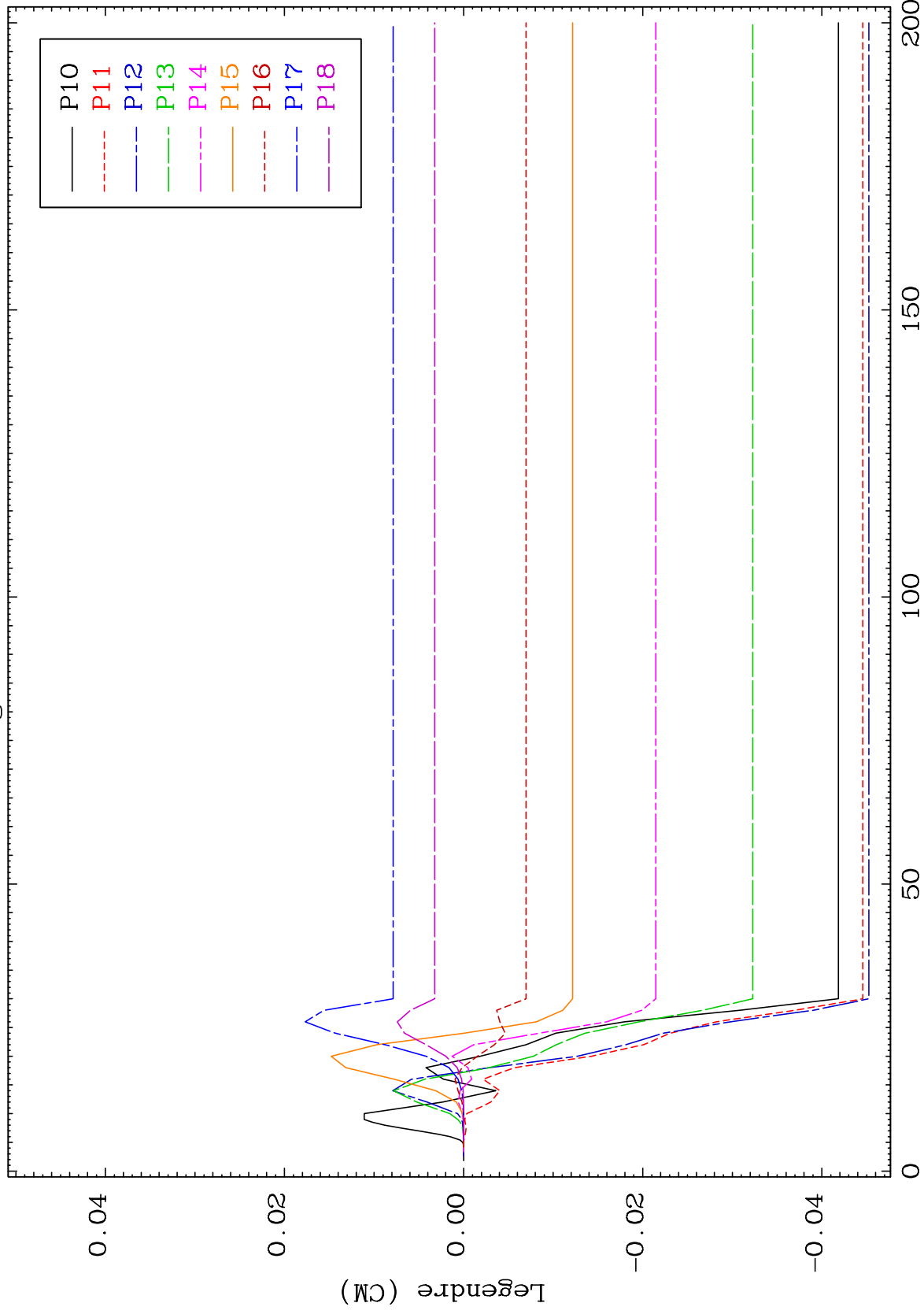
64-Gd-150



MAT 6419

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

64-Gd-150



39

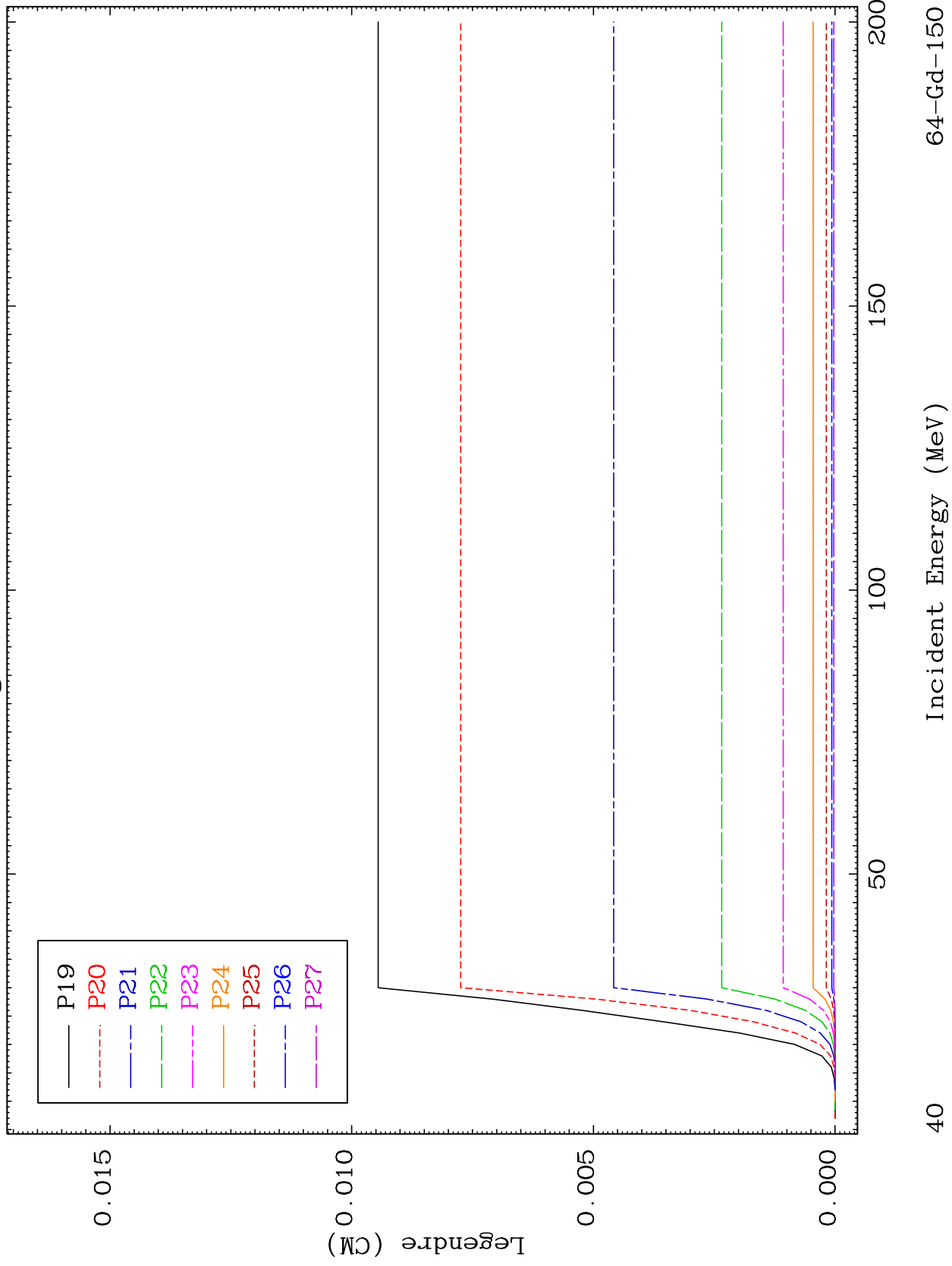
Incident Energy (MeV)

64-Gd-150

MAT 6419

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

64-Gd-150



64-Gd-150

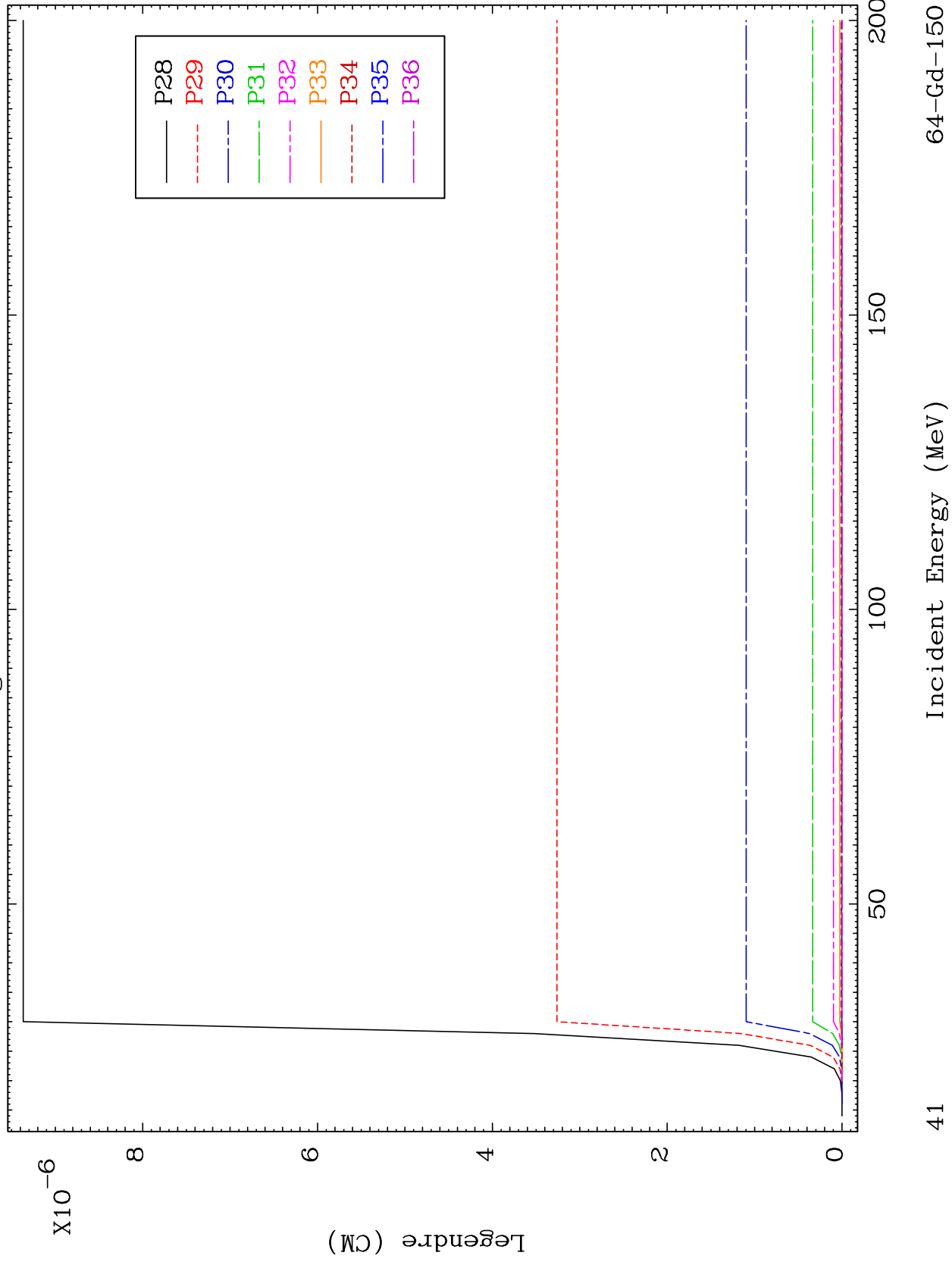
Incident Energy (MeV)

40

MAT 6419

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

64-Gd-150



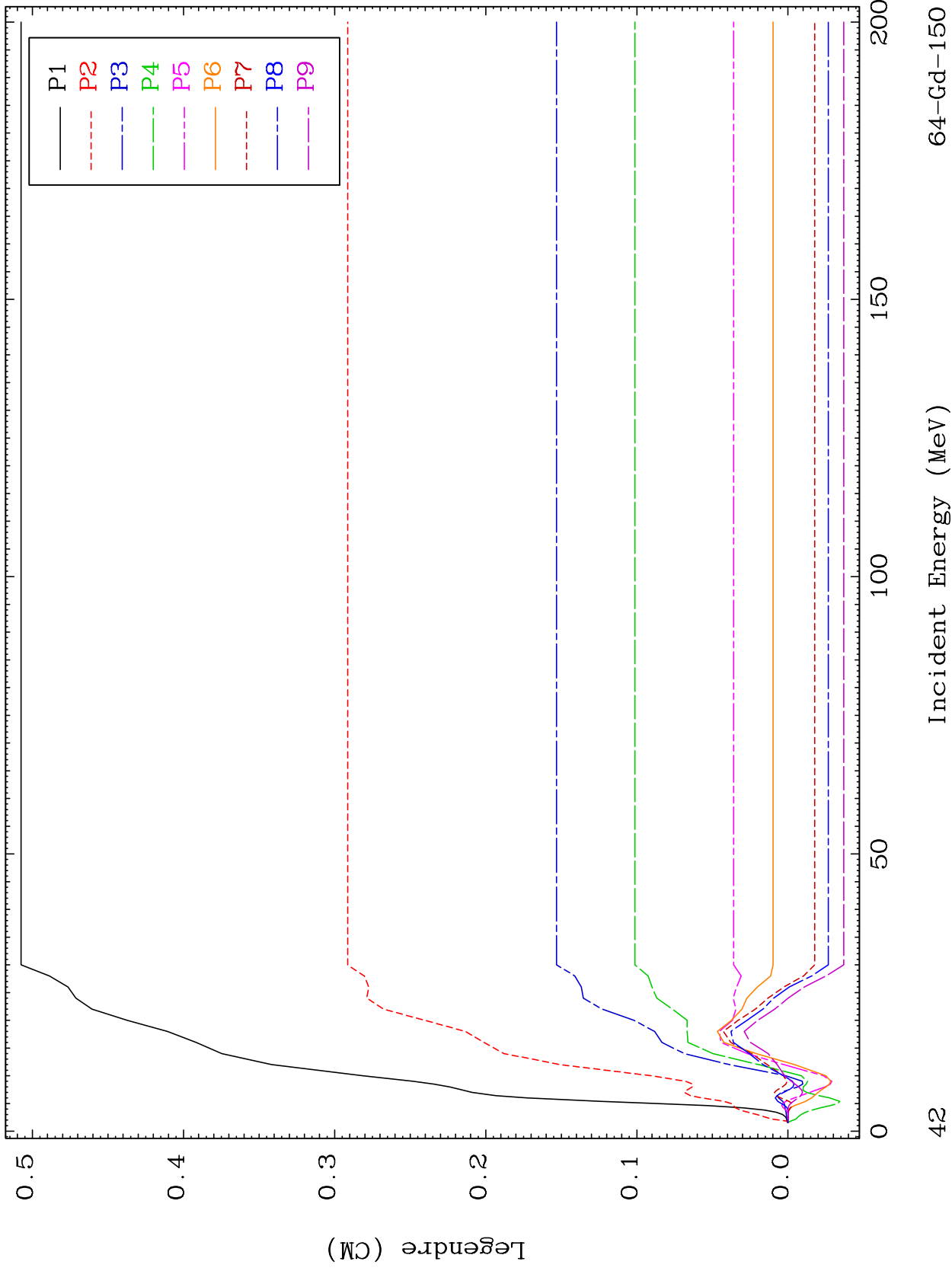
41

64-Gd-150

MAT 6419

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

64-Gd-150



64-Gd-150

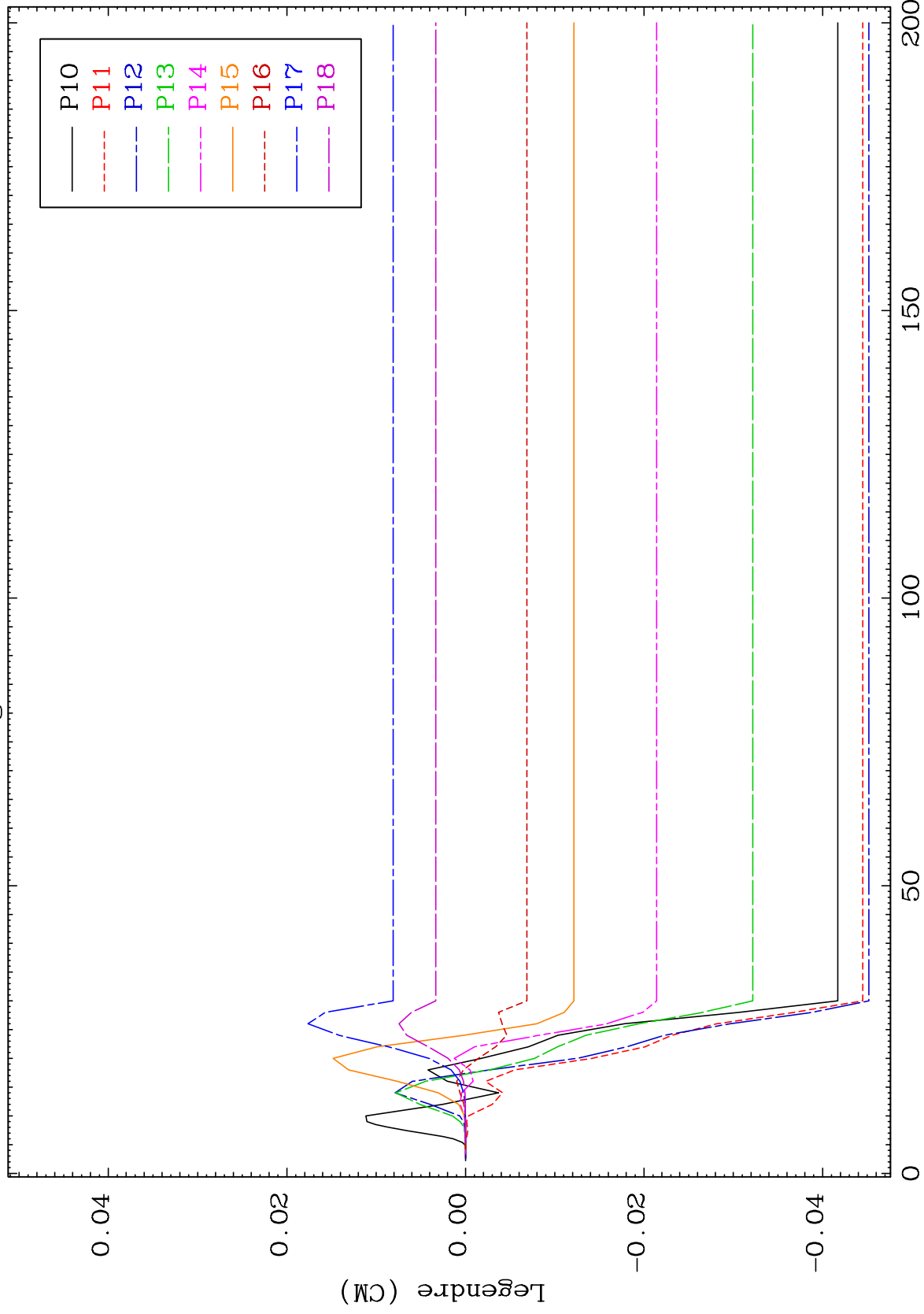
Incident Energy (MeV)

42

MAT 6419

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

64-Gd-150



43

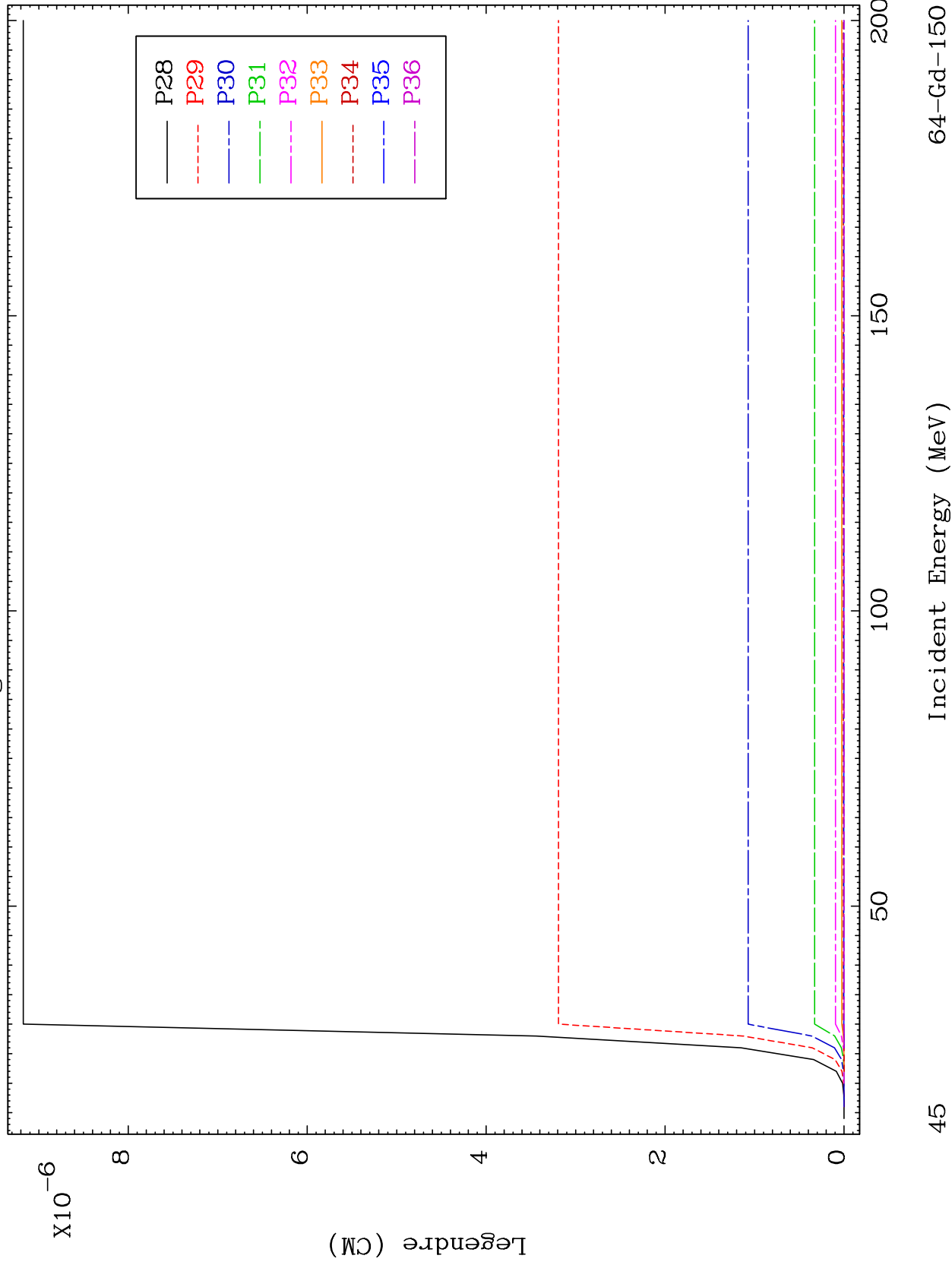
Incident Energy (MeV)

64-Gd-150

MAT 6419

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

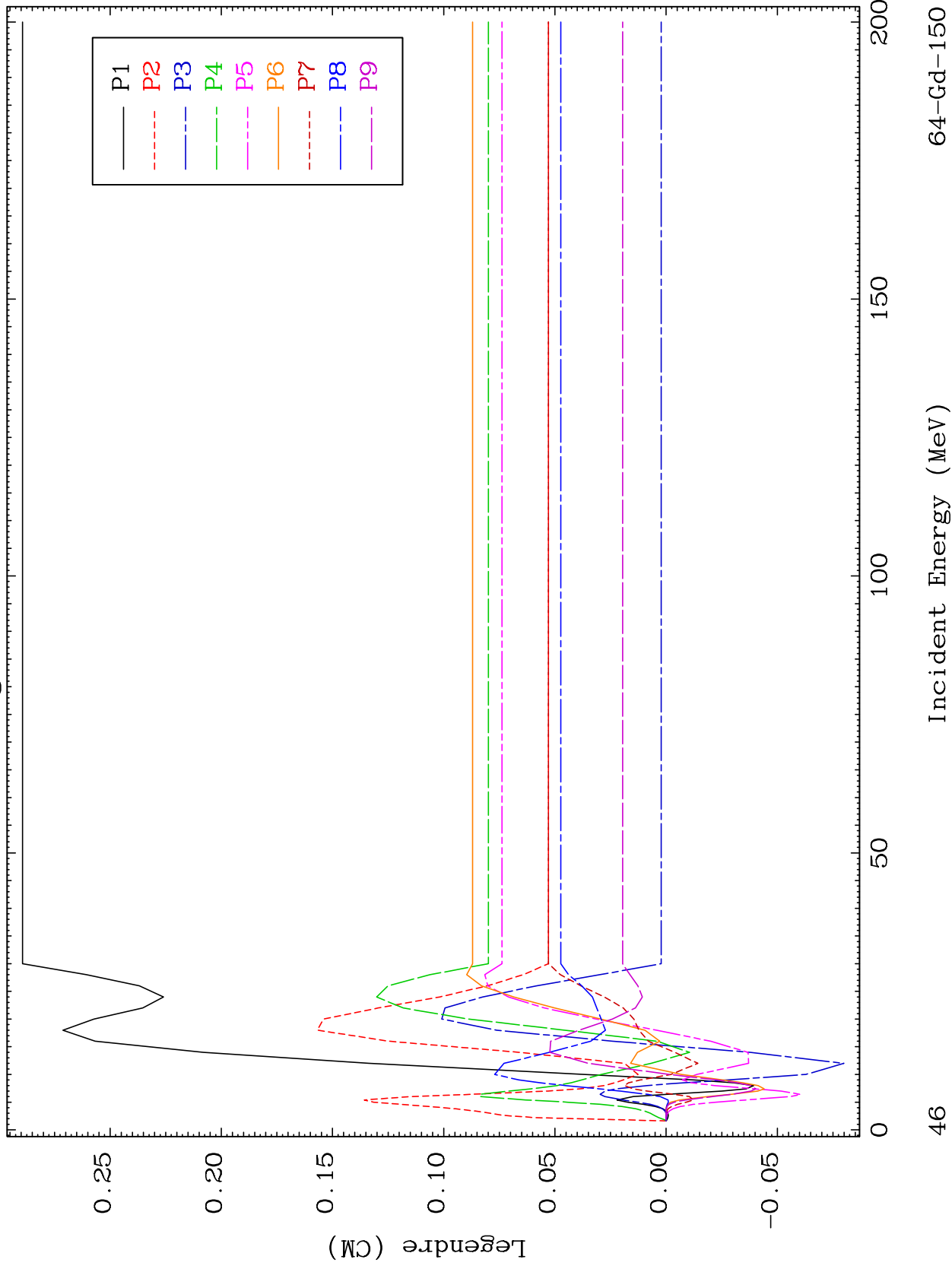
64-Gd-150



MAT 6419

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

64-Gd-150



46

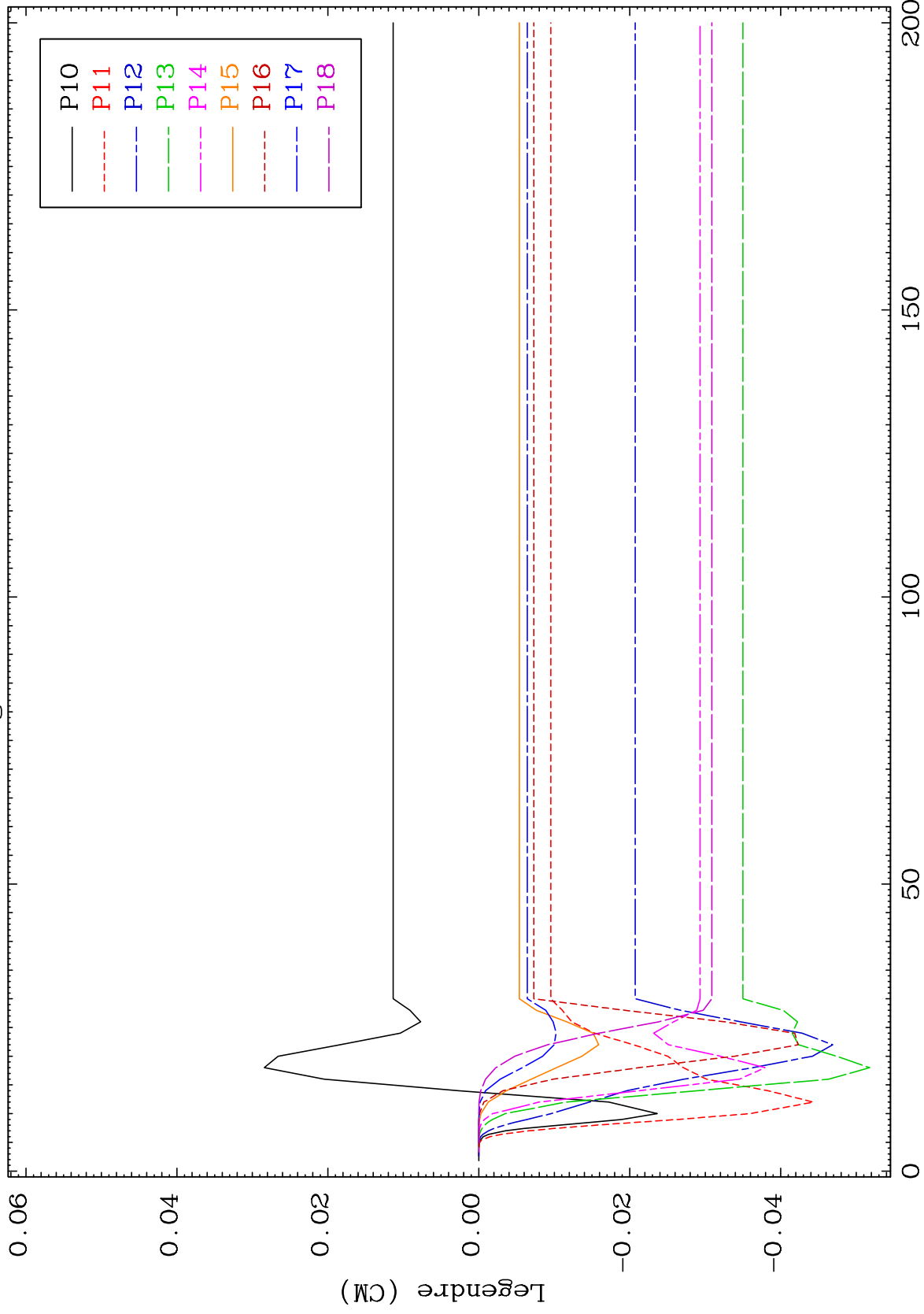
Incident Energy (MeV)

64-Gd-150

MAT 6419

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

64-Gd-150



47

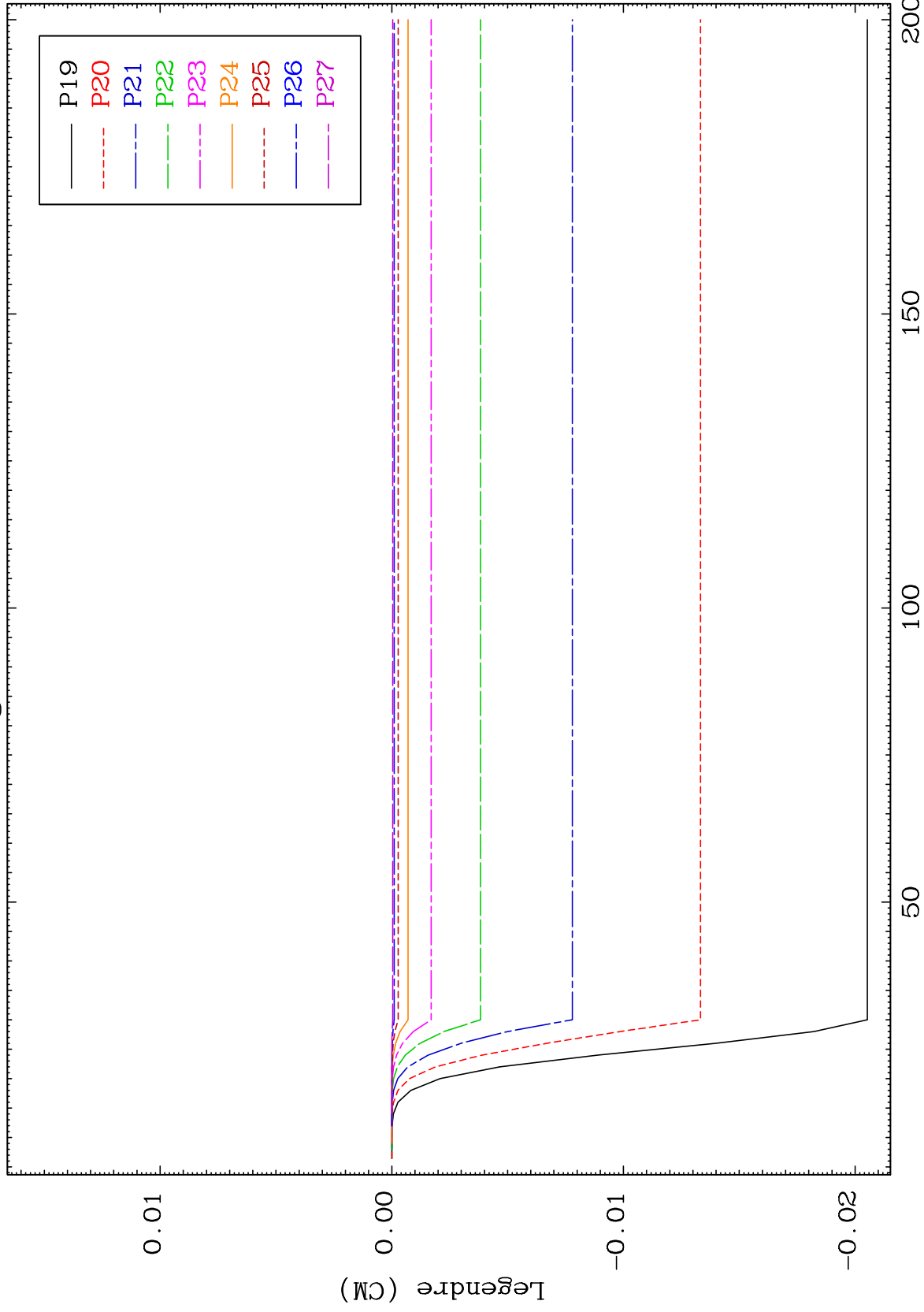
Incident Energy (MeV)

64-Gd-150

MAT 6419

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

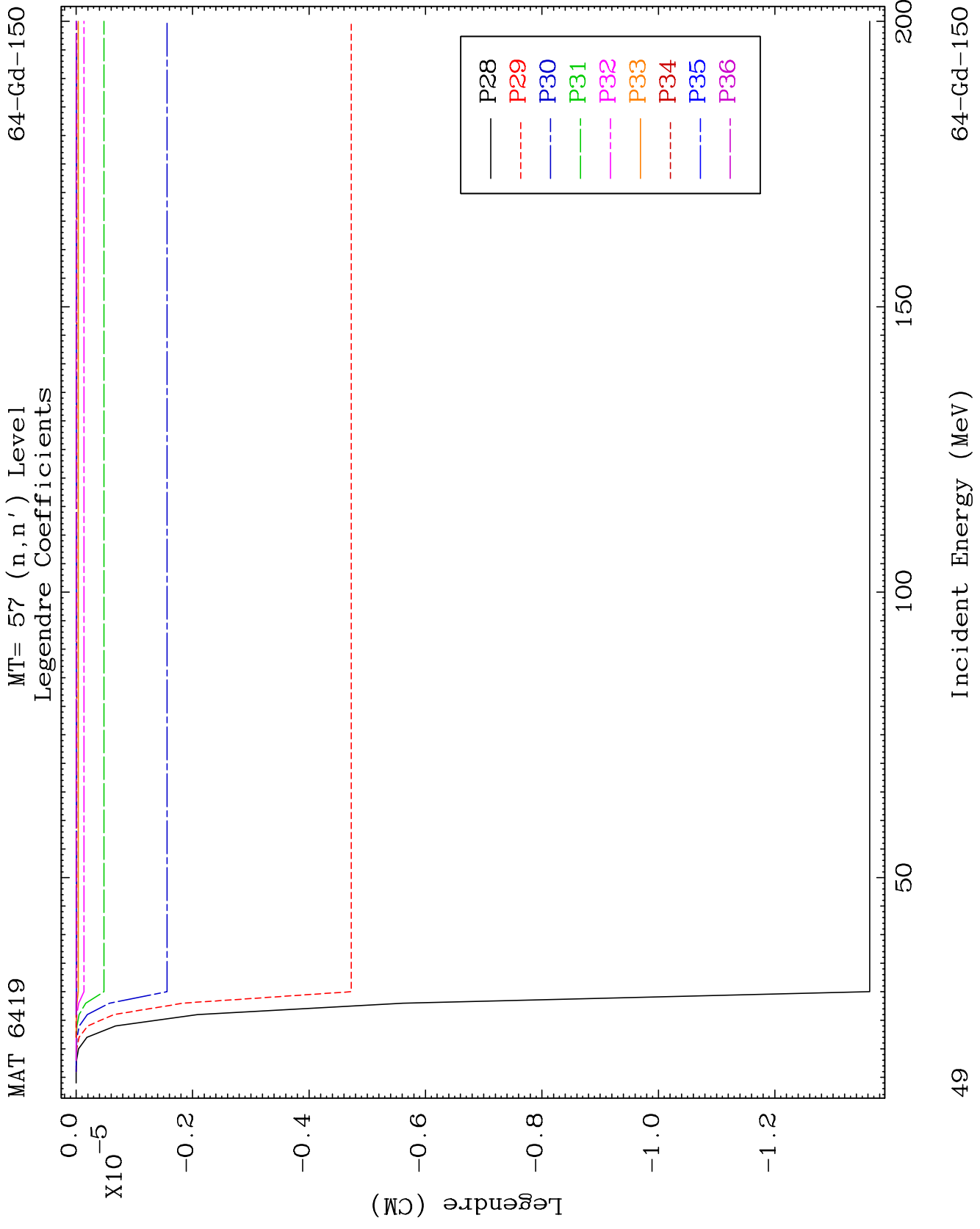
64-Gd-150

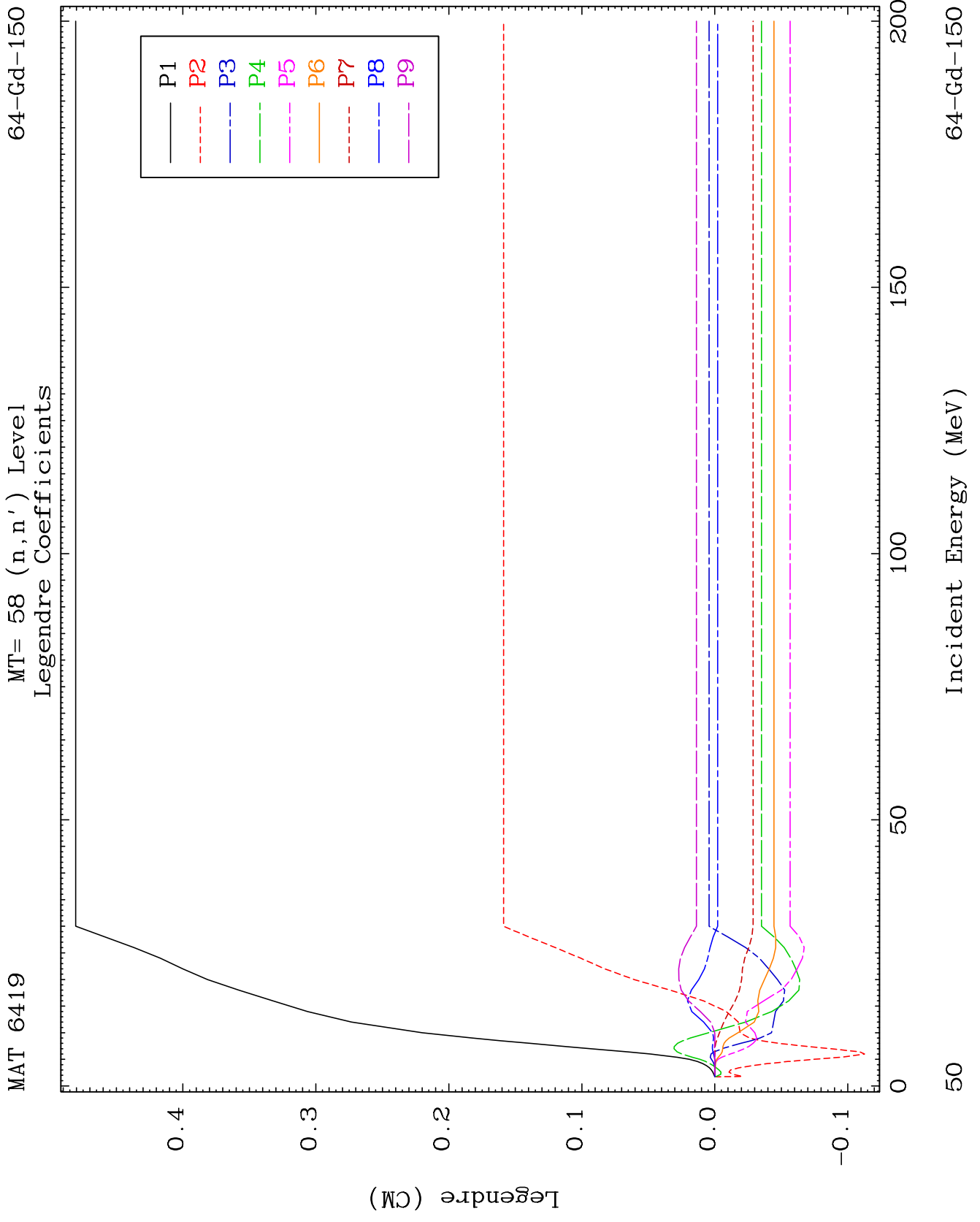


48

Incident Energy (MeV)

64-Gd-150

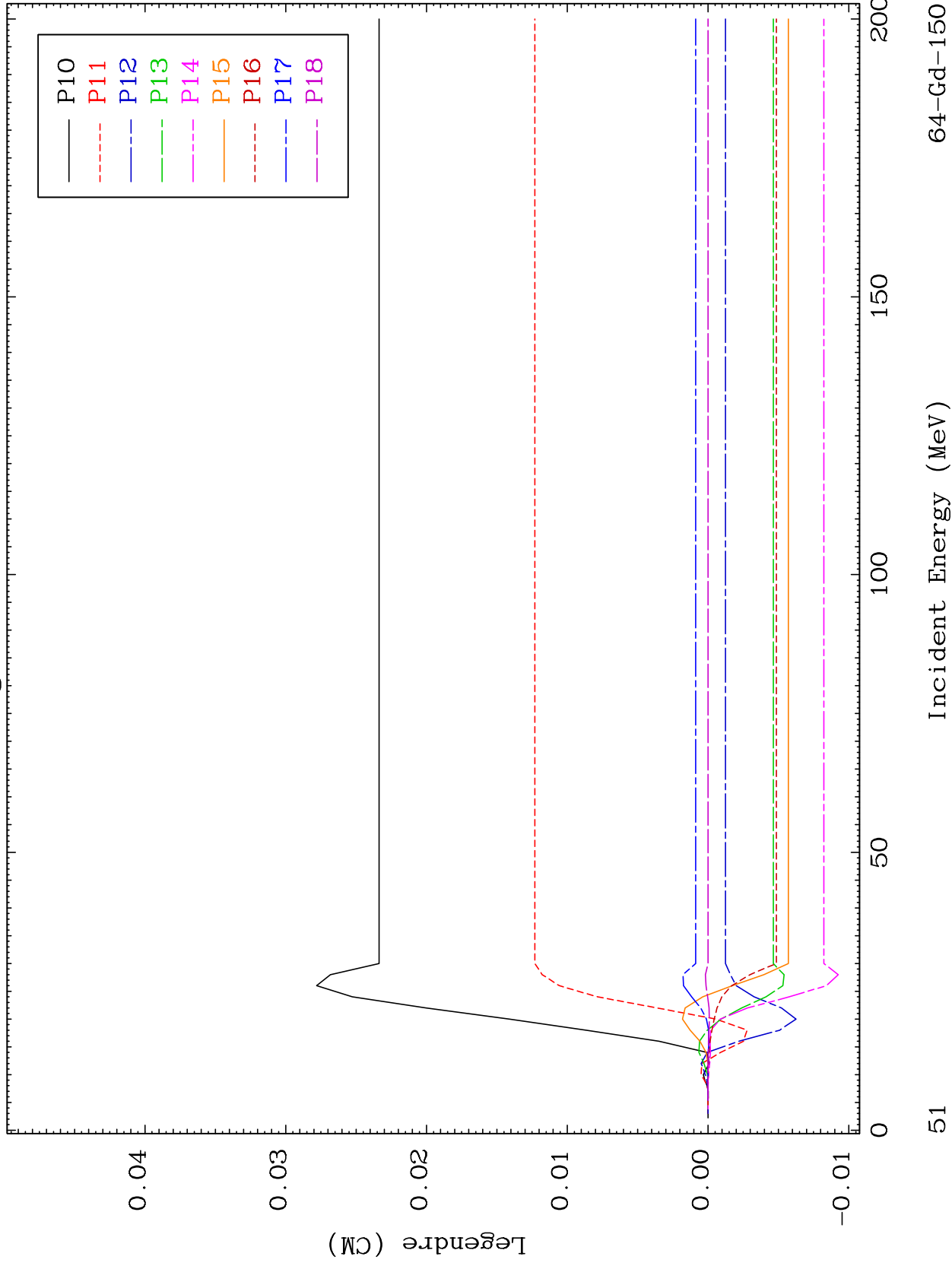




MAT 6419

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

64-Gd-150



51

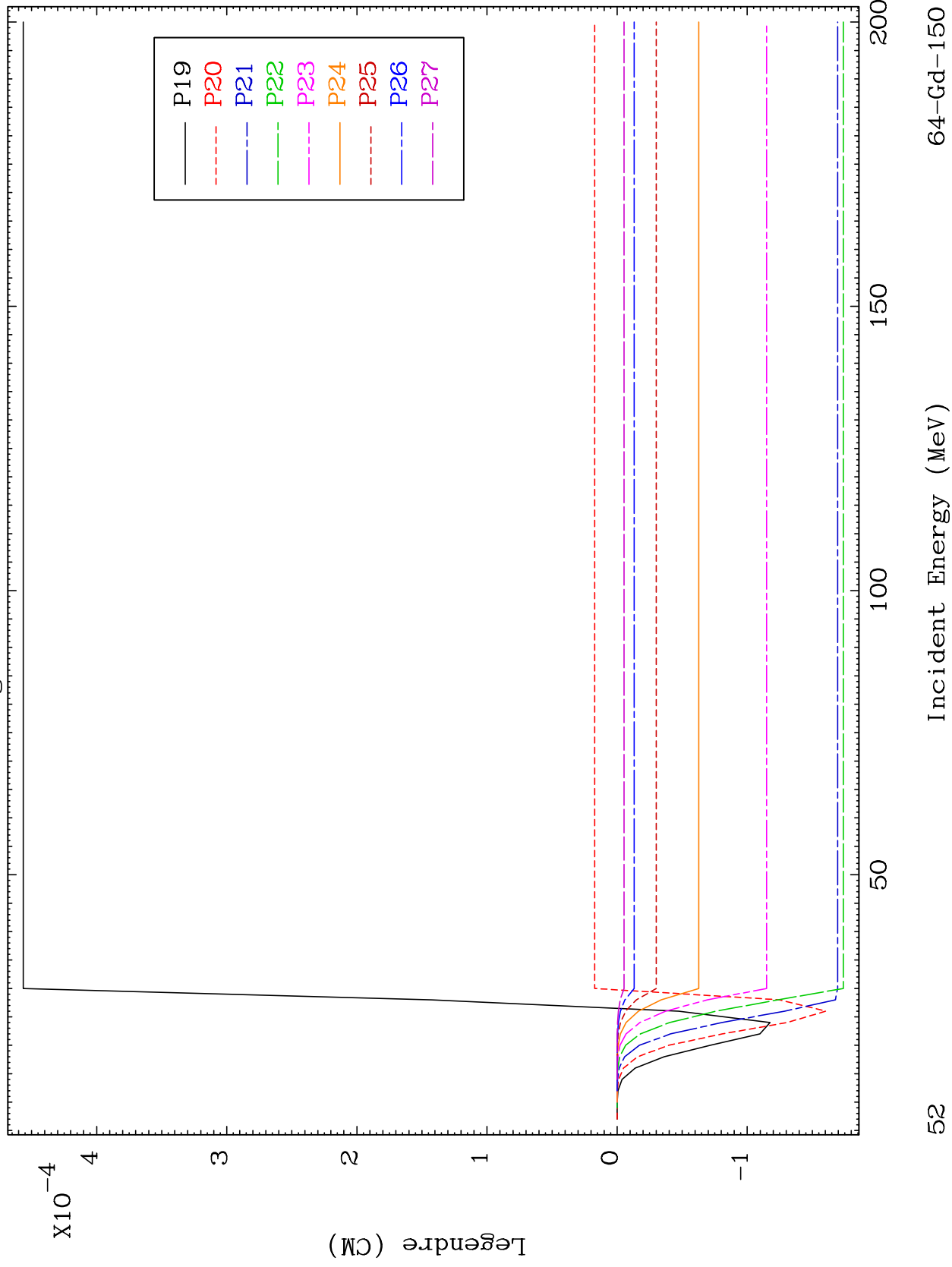
Incident Energy (MeV)

64-Gd-150

MAT 6419

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

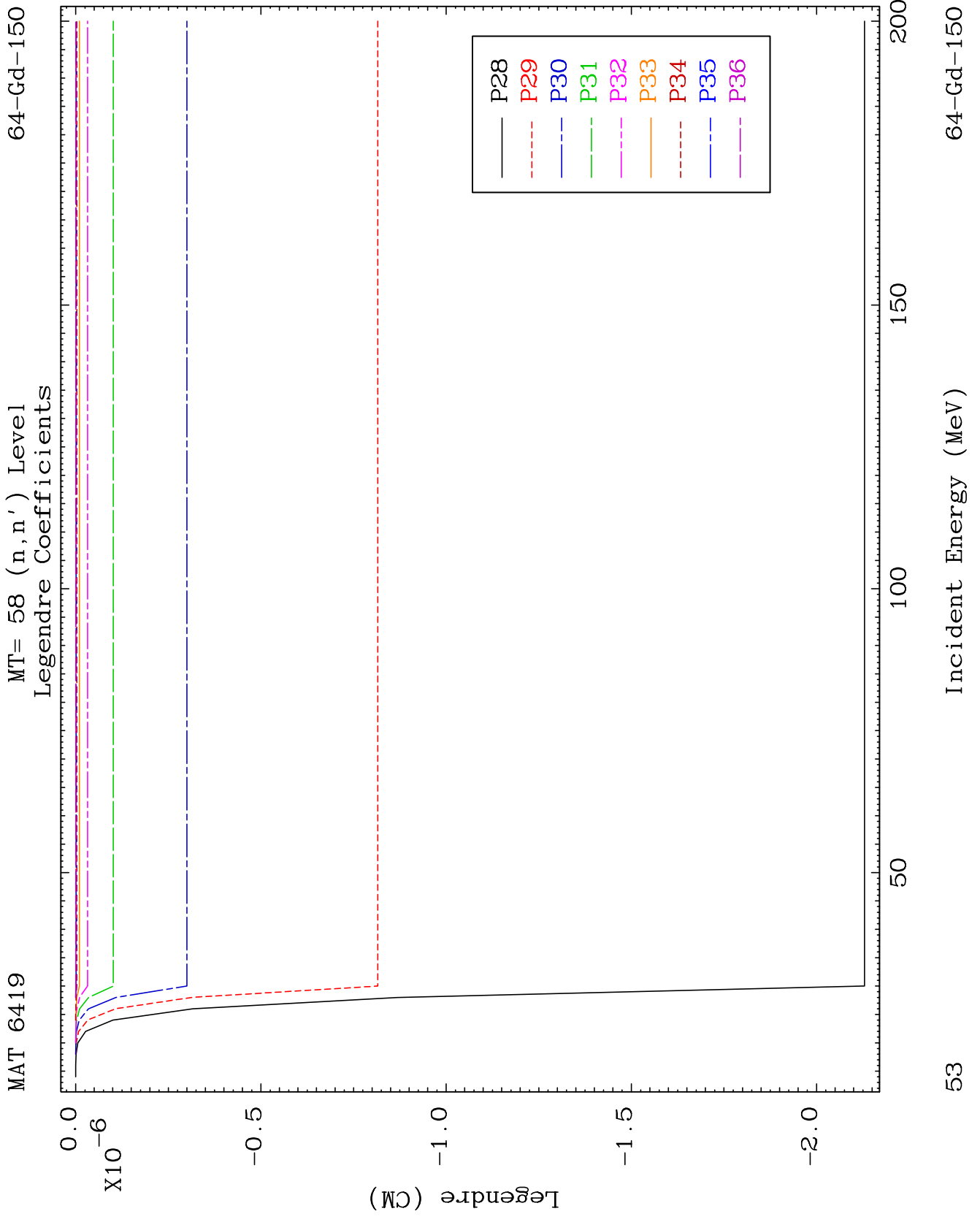
64-Gd-150



52

Incident Energy (MeV)

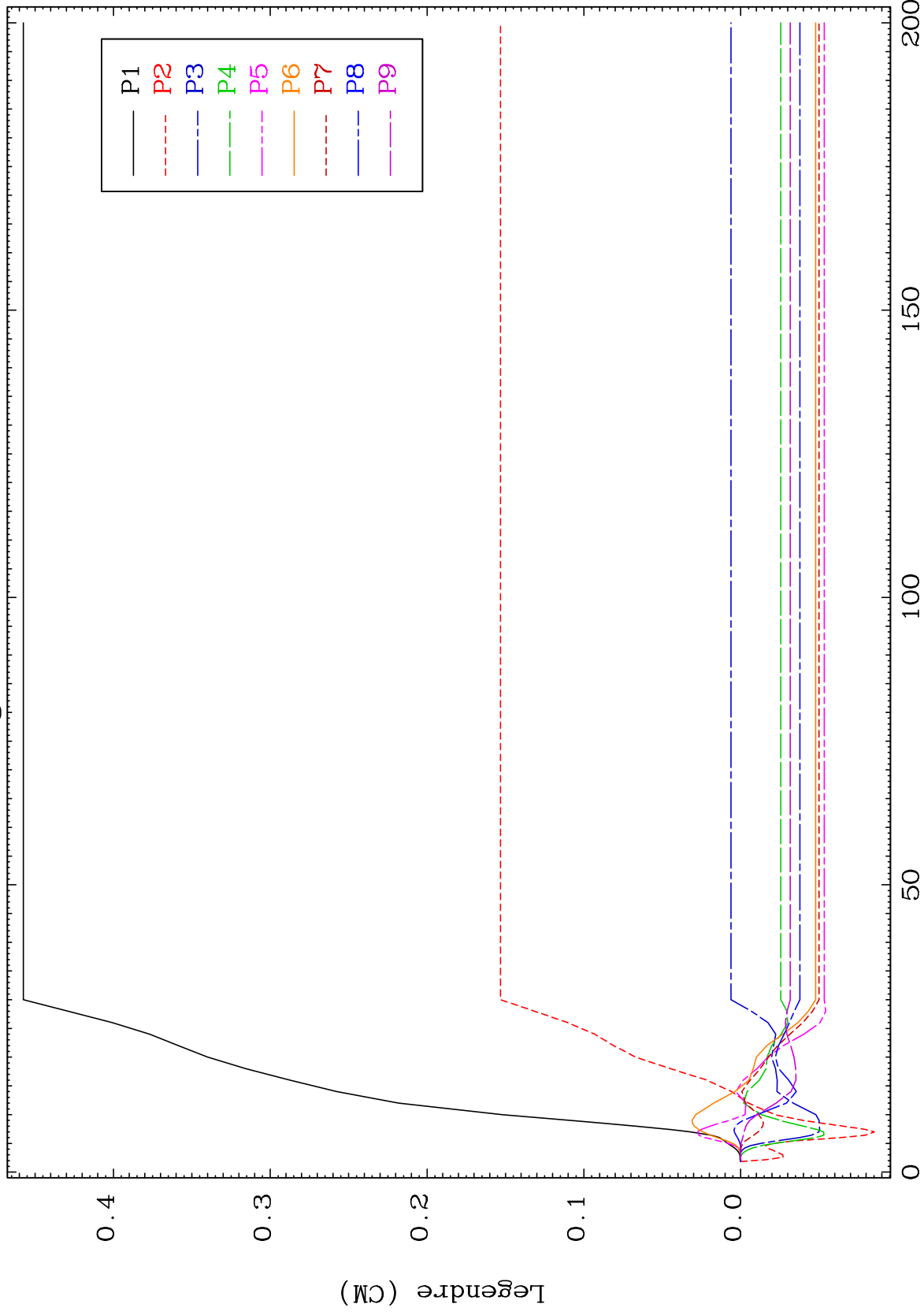
64-Gd-150



MAT 6419

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

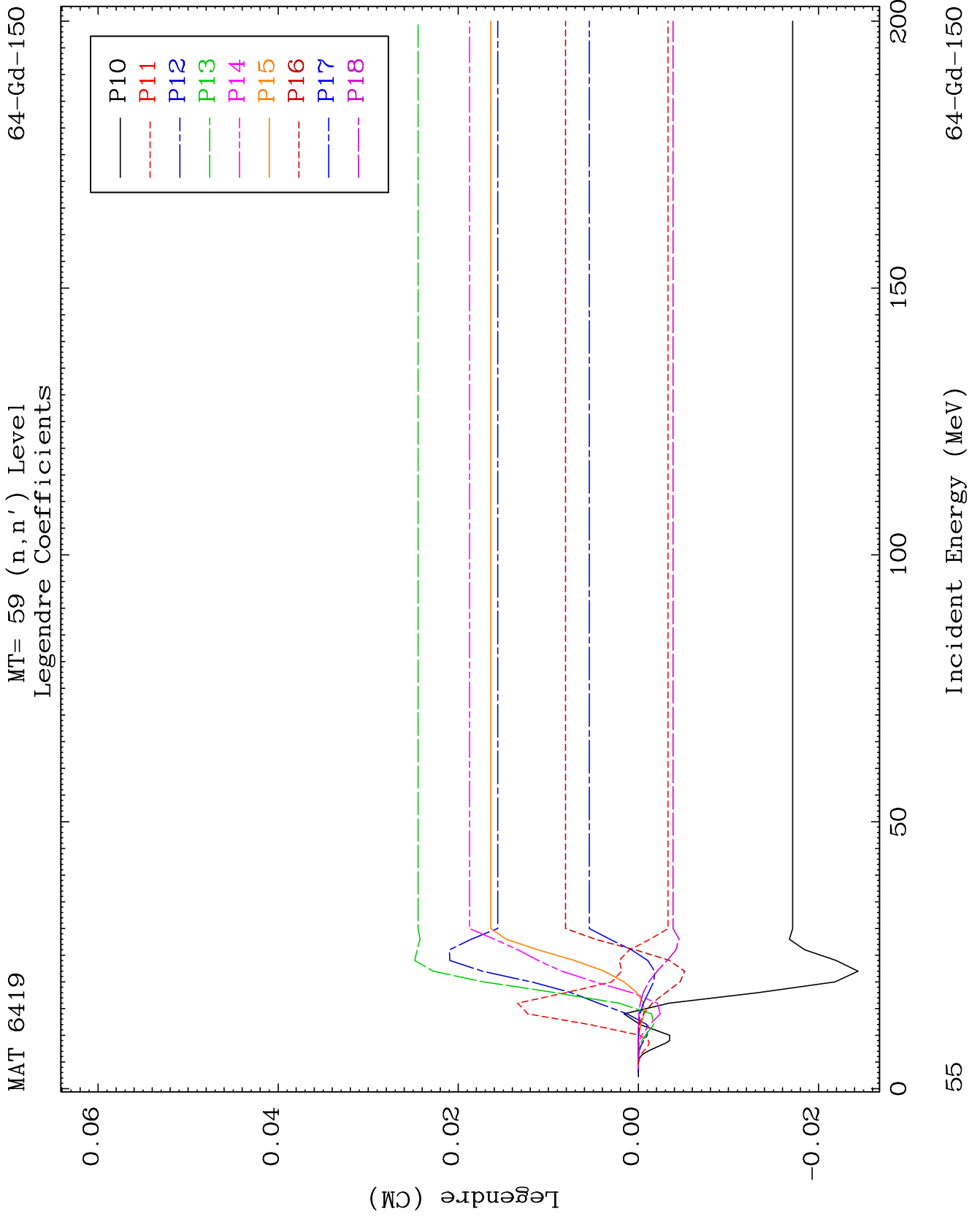
64-Gd-150



54

Incident Energy (MeV)

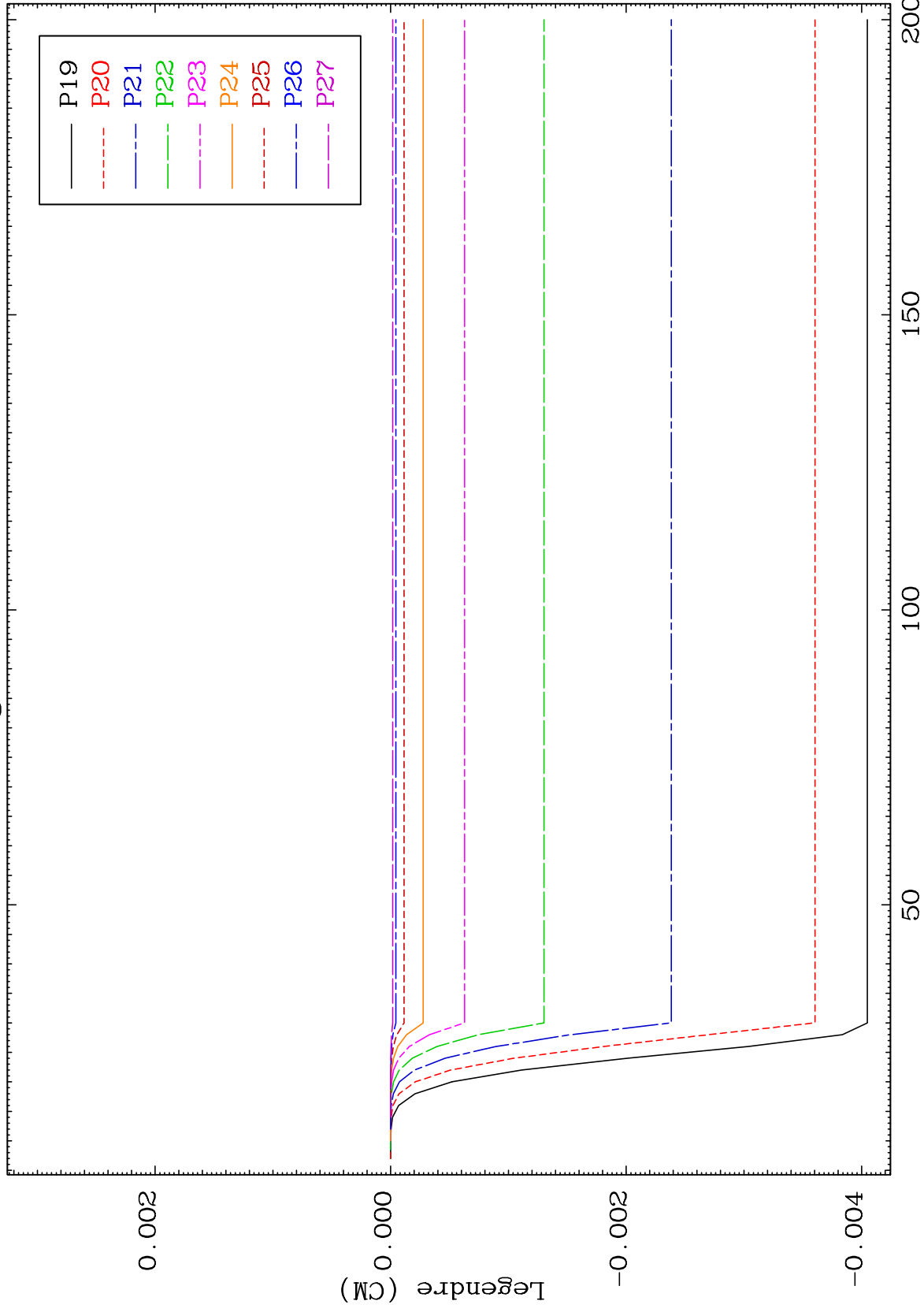
64-Gd-150



MAT 6419

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

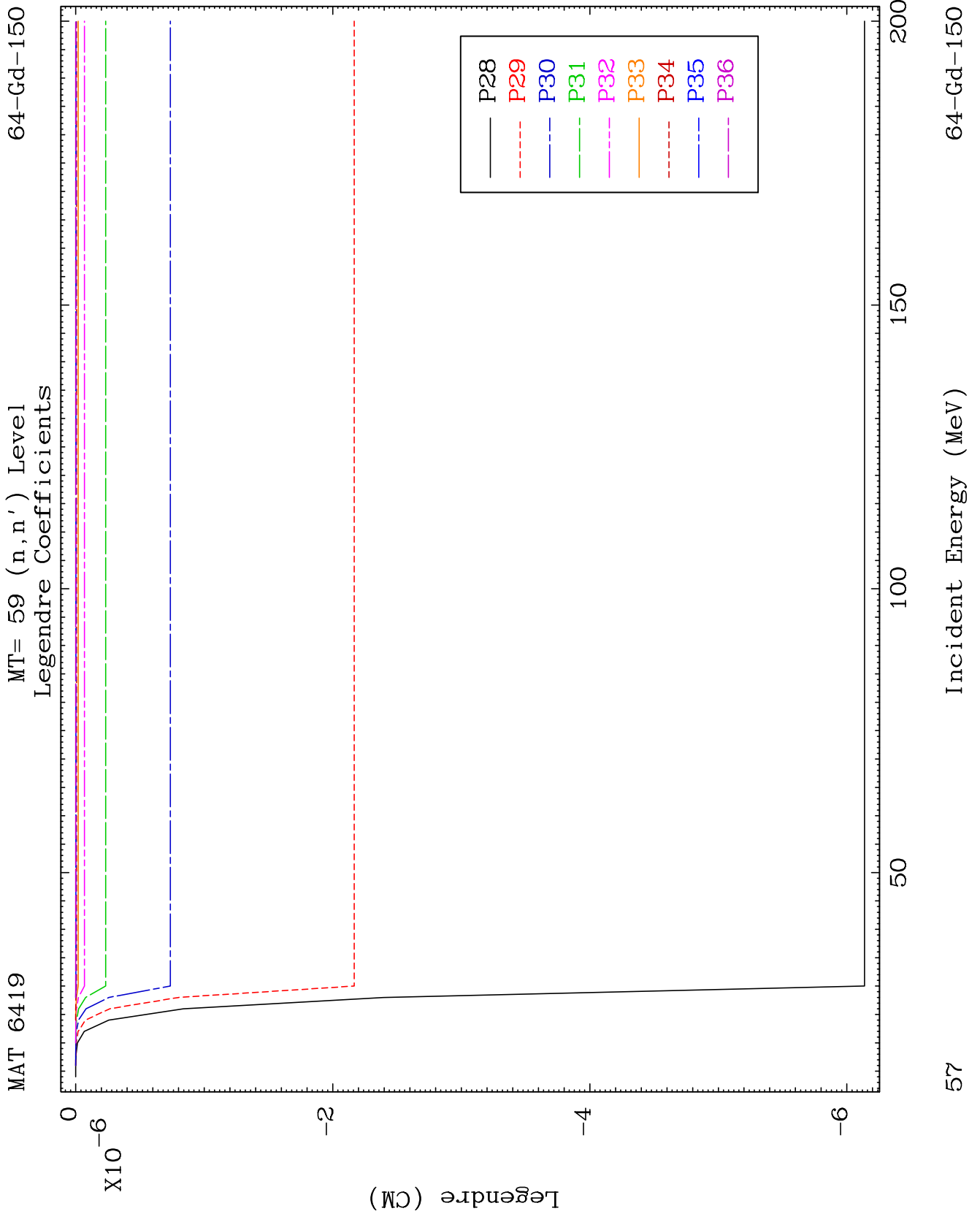
64-Gd-150

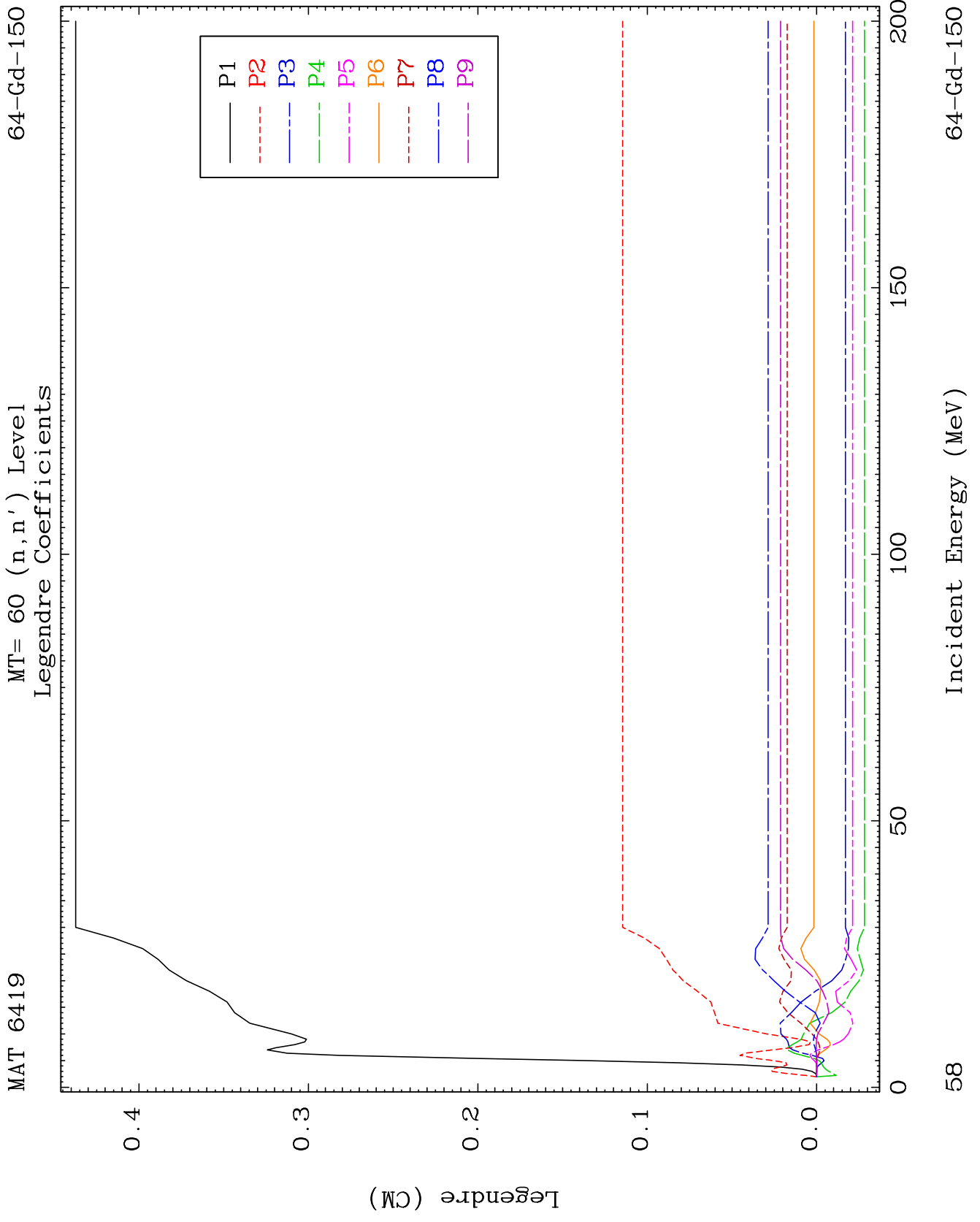


56

Incident Energy (MeV)

64-Gd-150

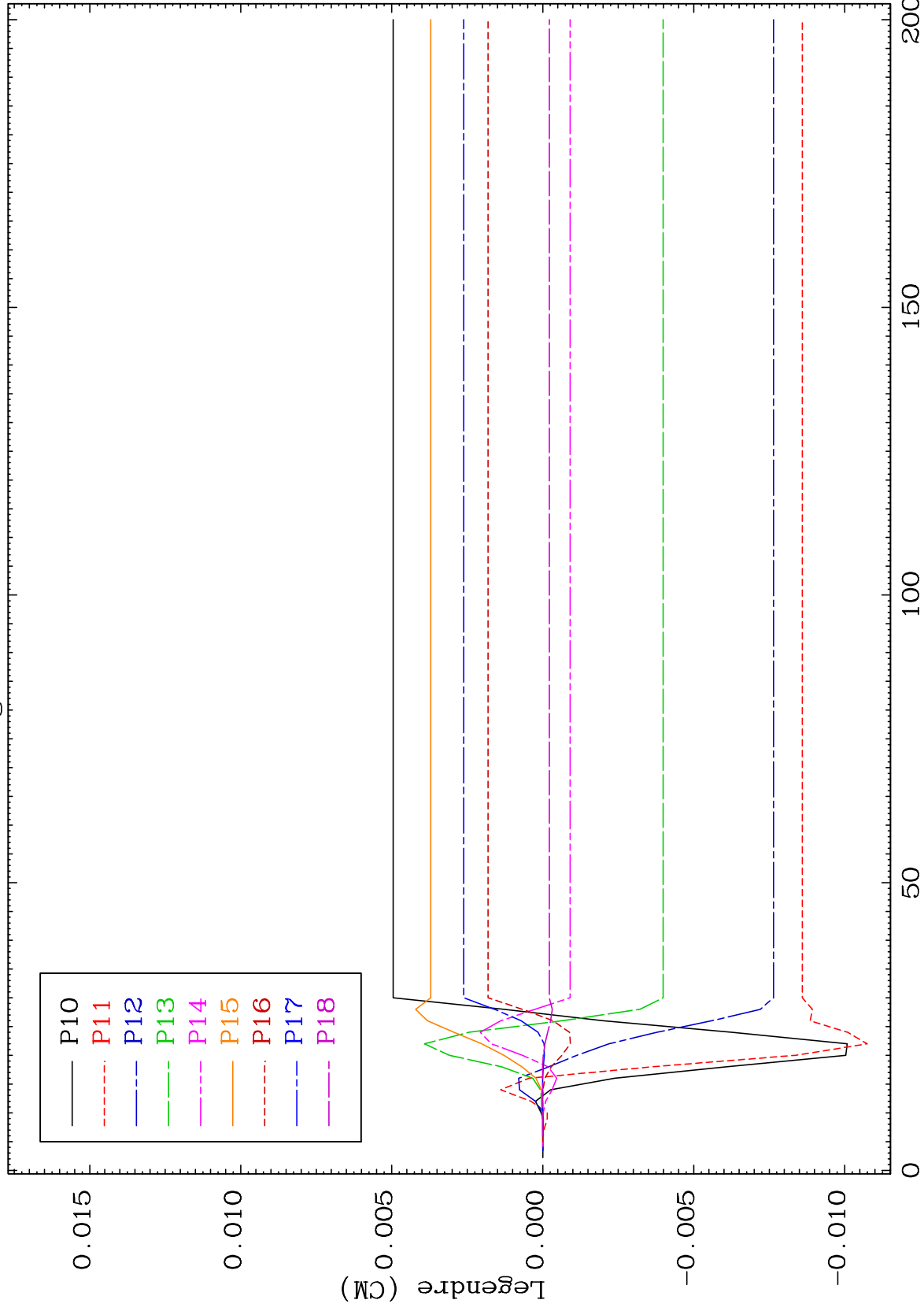




MAT 6419

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

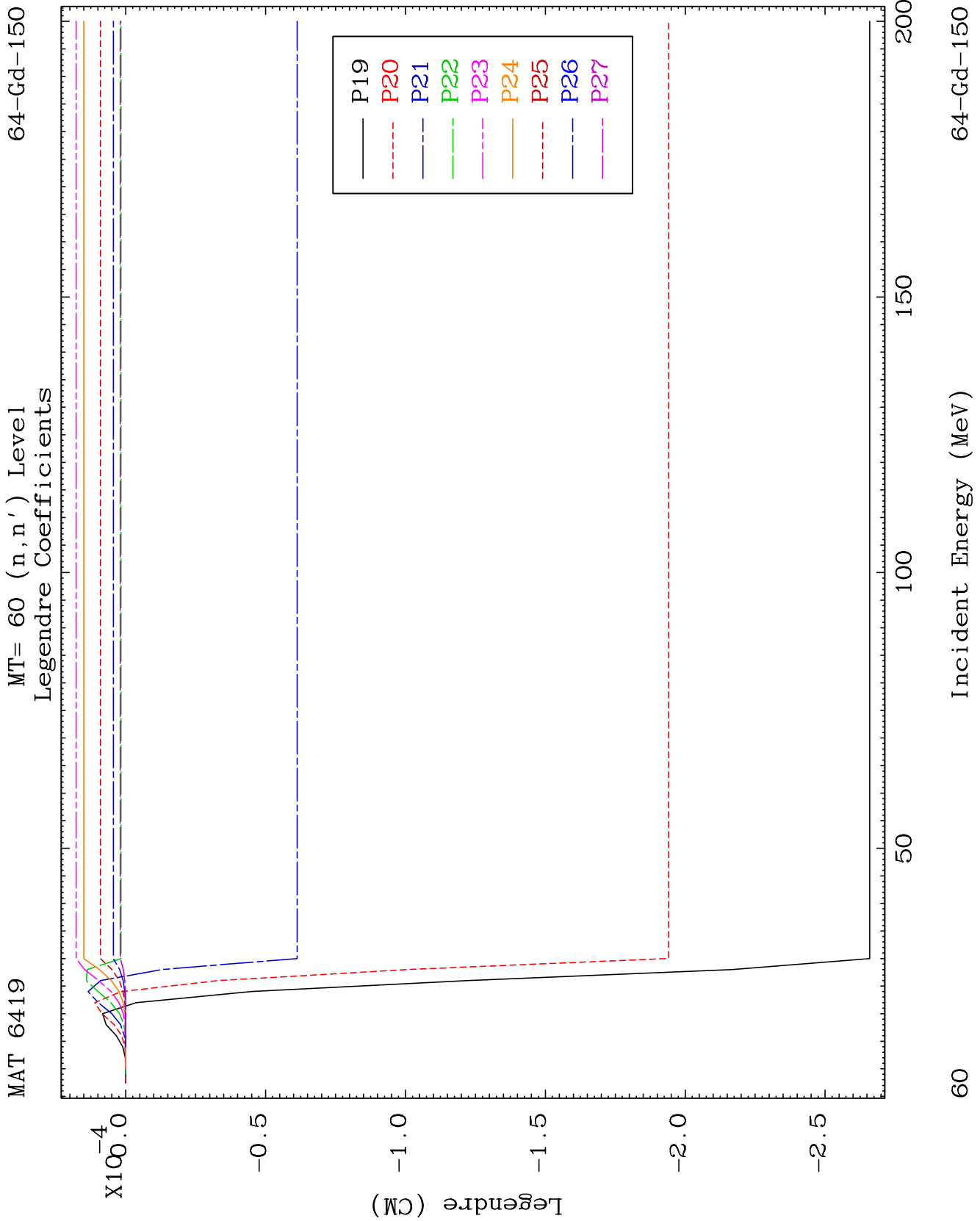
64-Gd-150



59

Incident Energy (MeV)

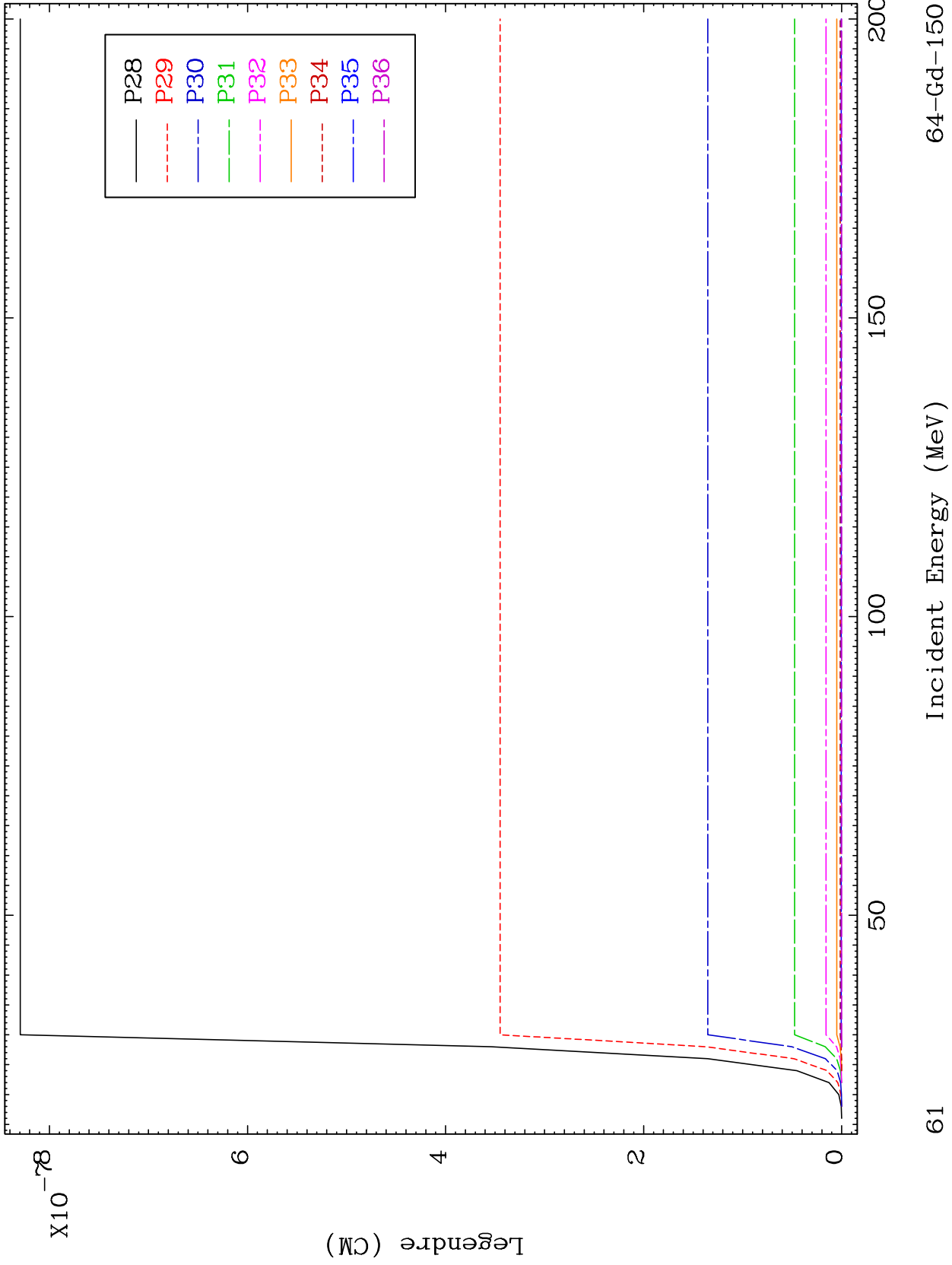
64-Gd-150



MAT 6419

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

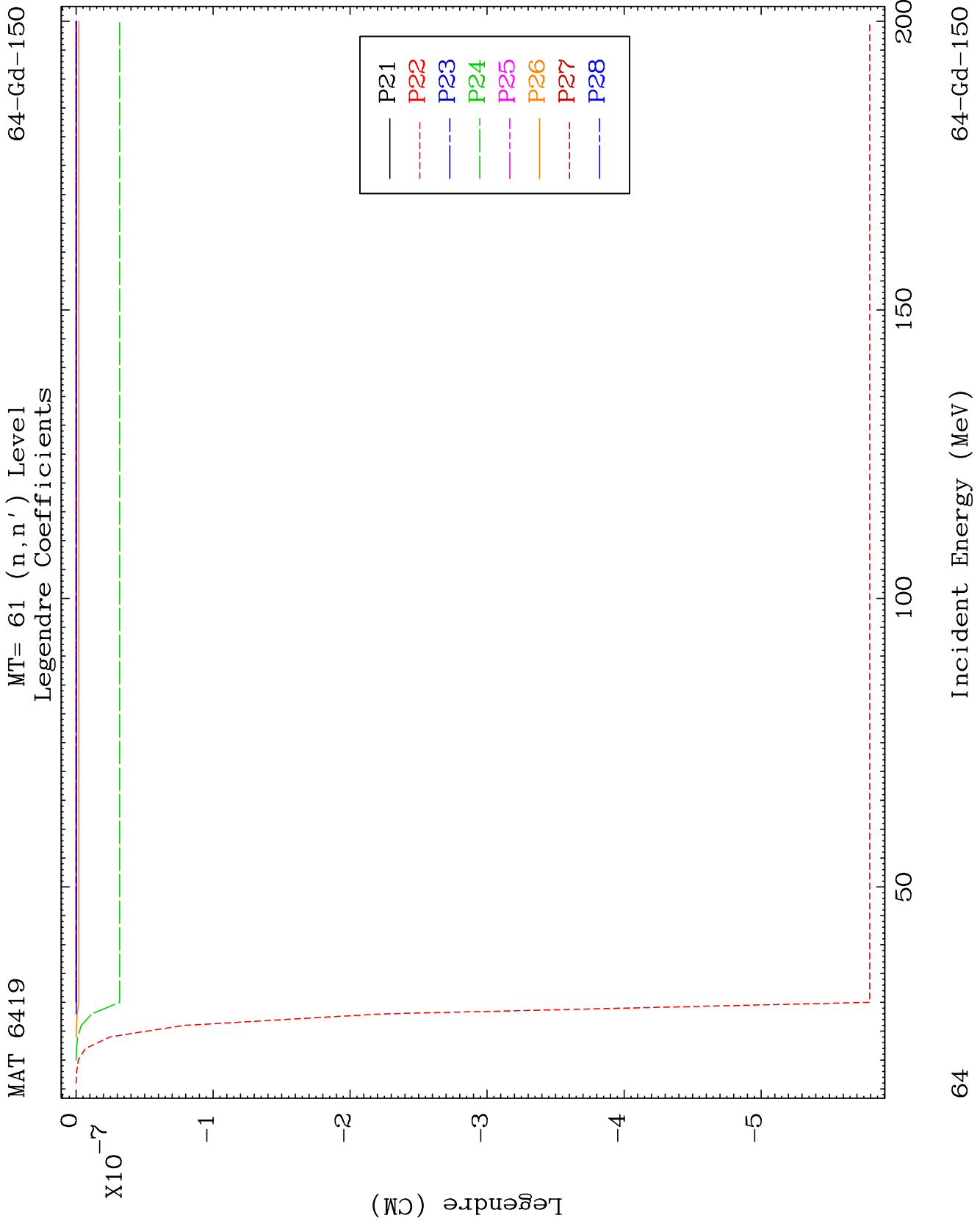
64-Gd-150

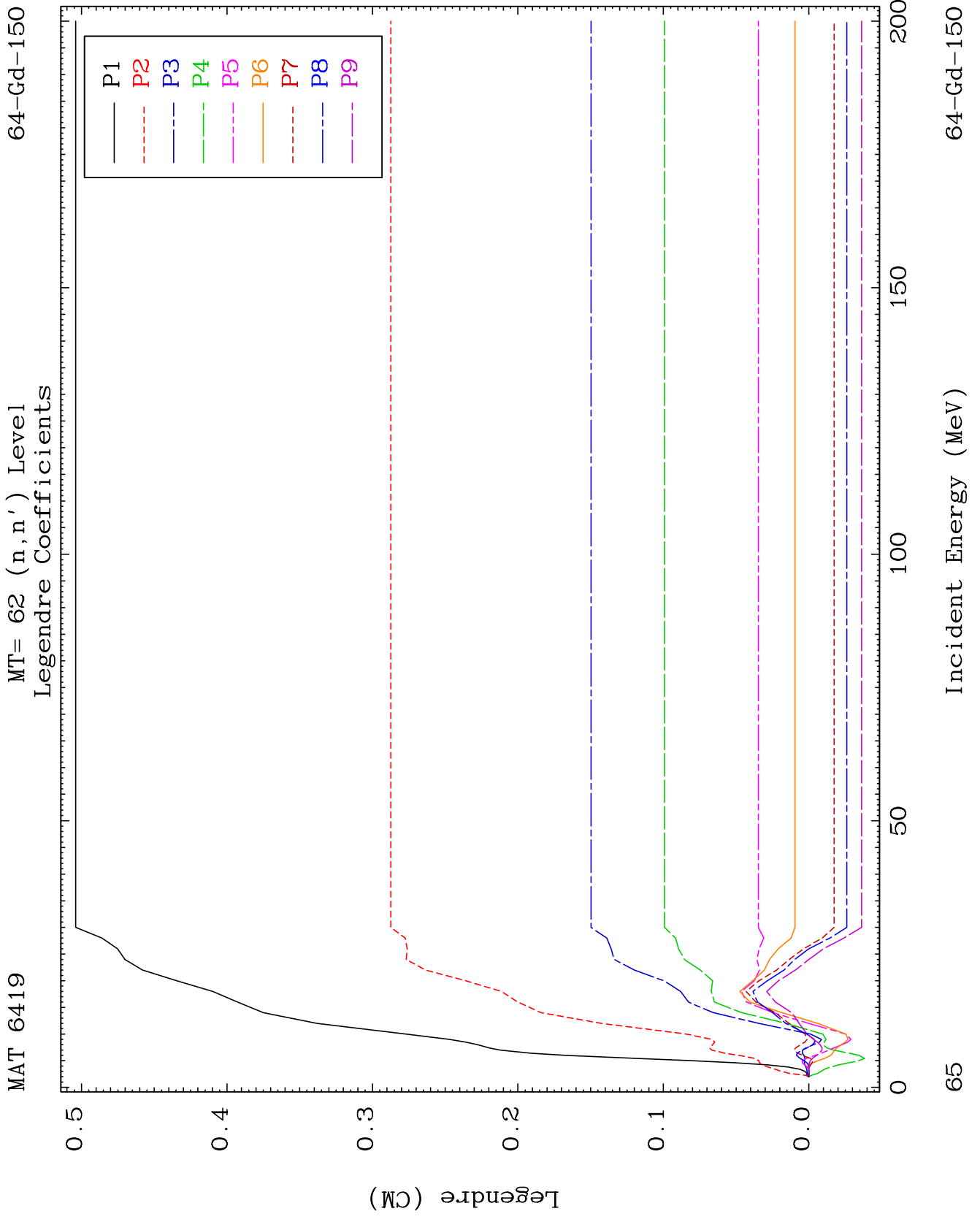


61

Incident Energy (MeV)

64-Gd-150

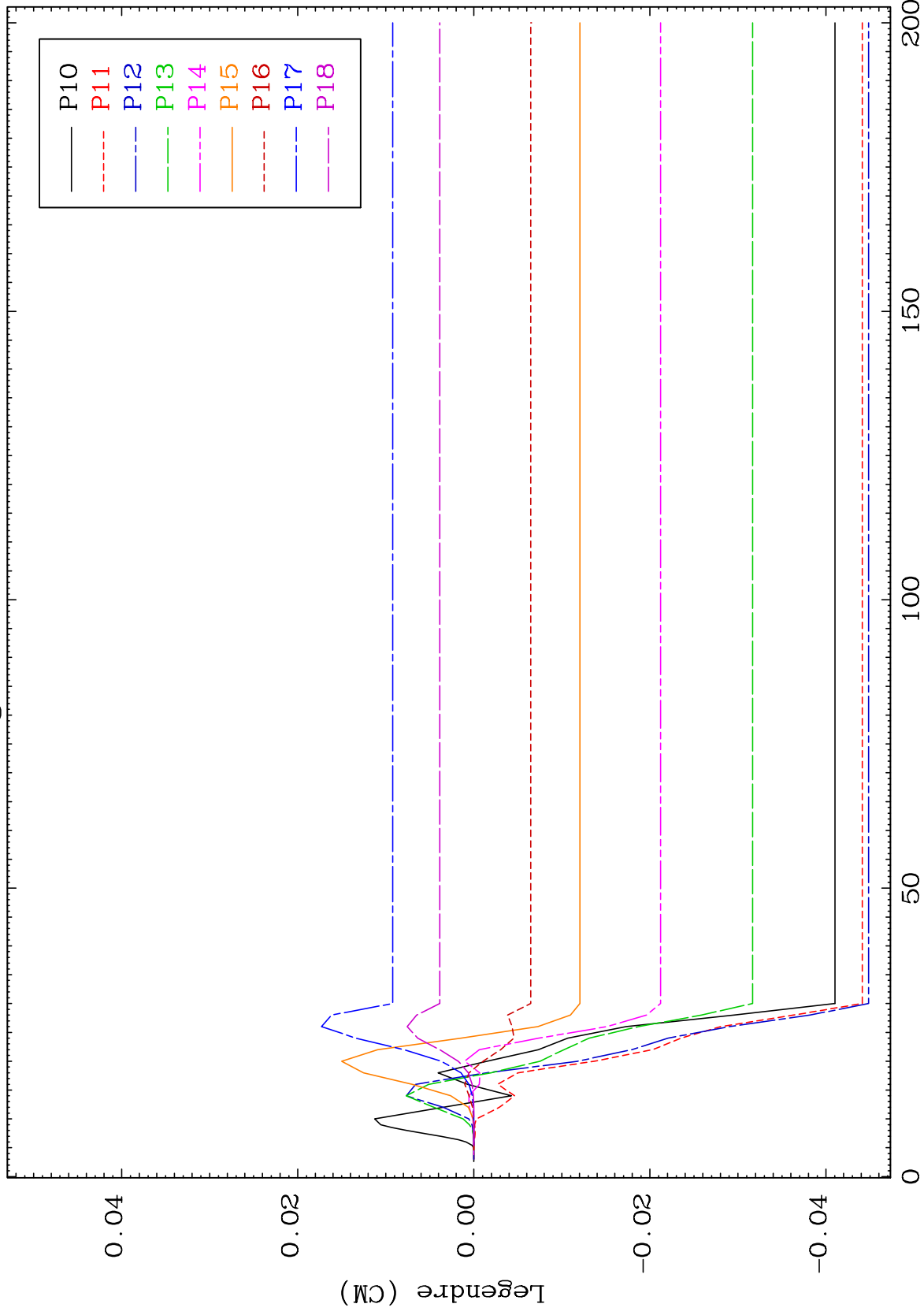




MAT 6419

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

64-Gd-150



66

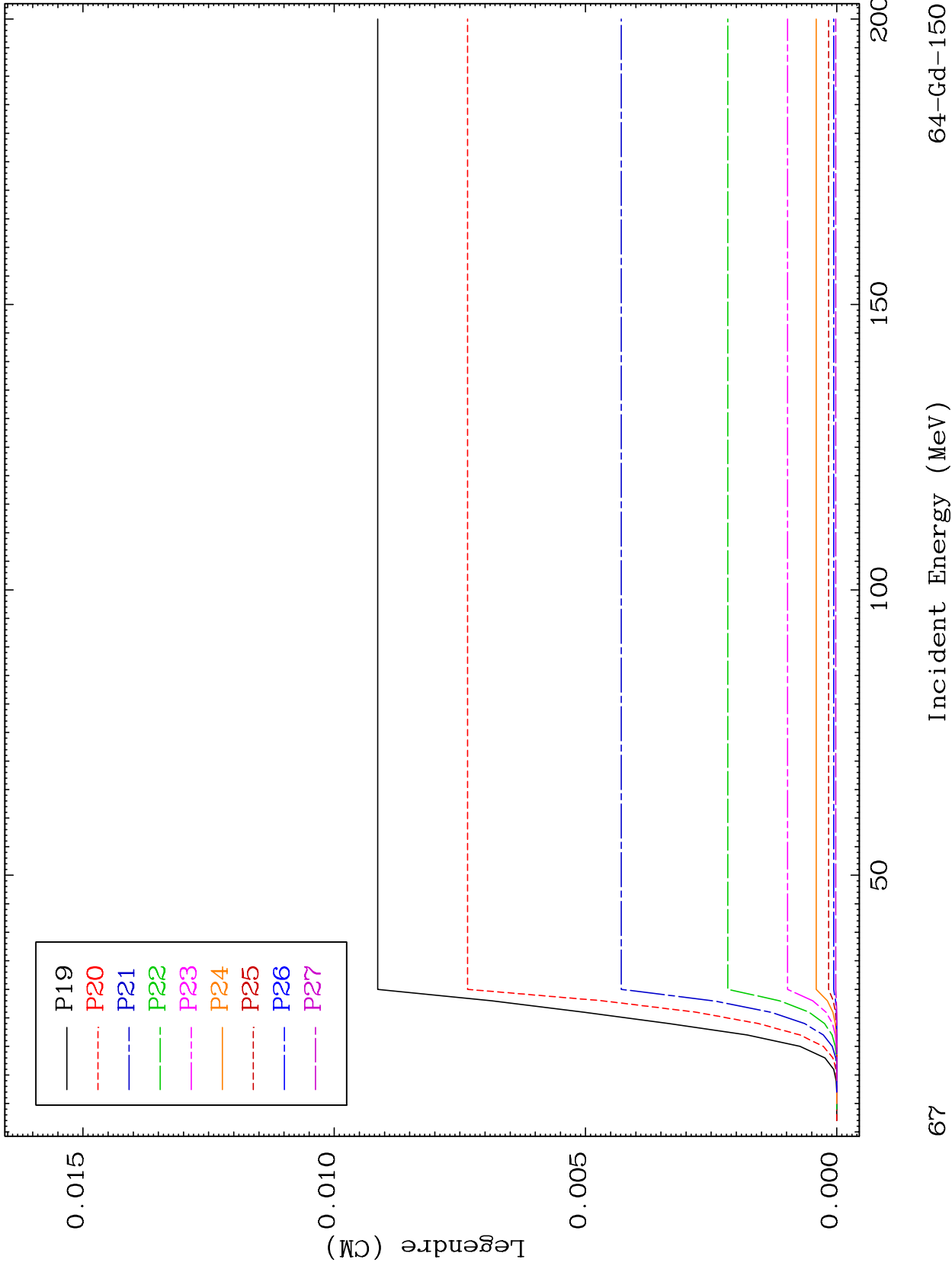
Incident Energy (MeV)

64-Gd-150

MAT 6419

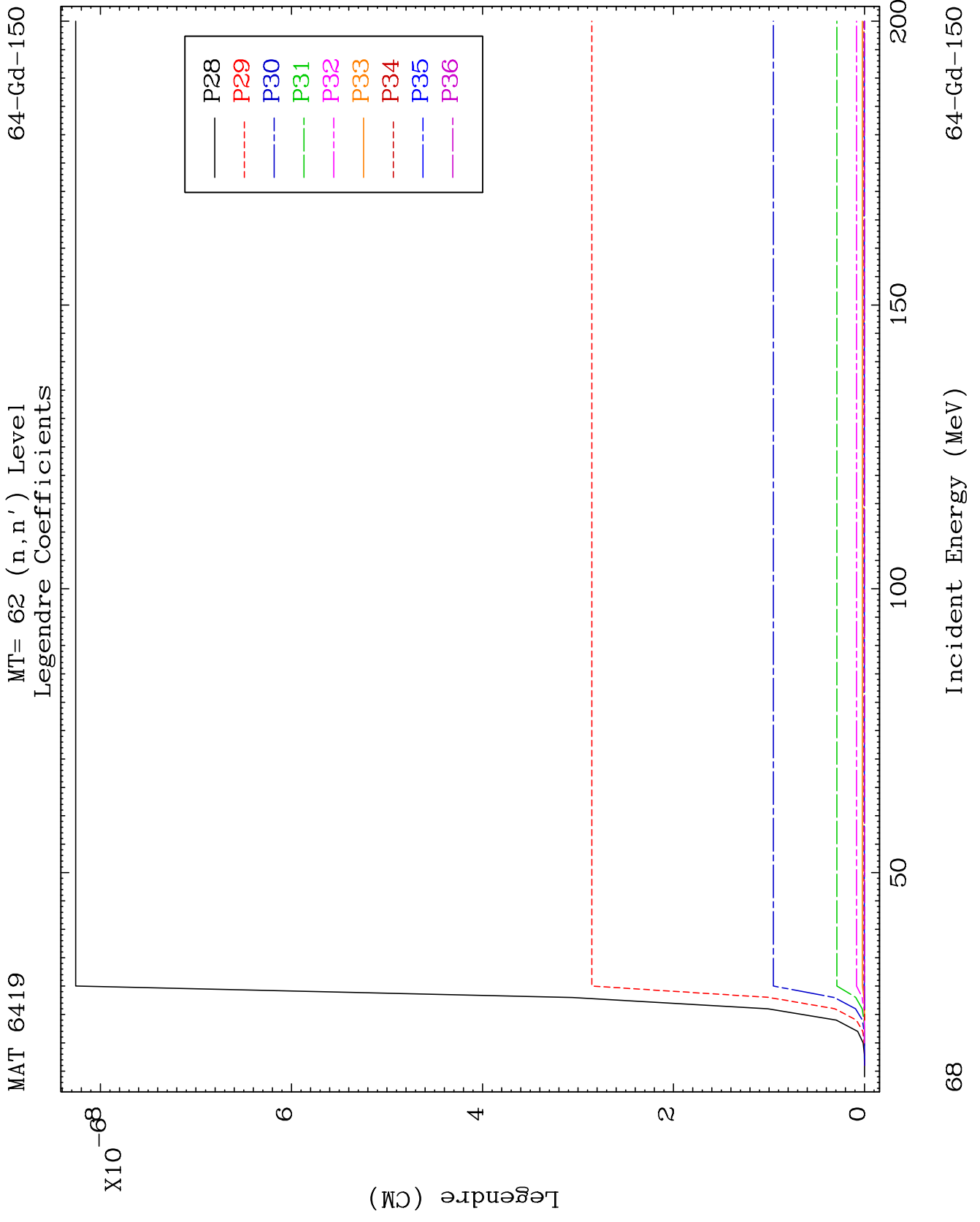
MT= 62 (n,n') Level
Legendre Coefficients

64-Gd-150



67

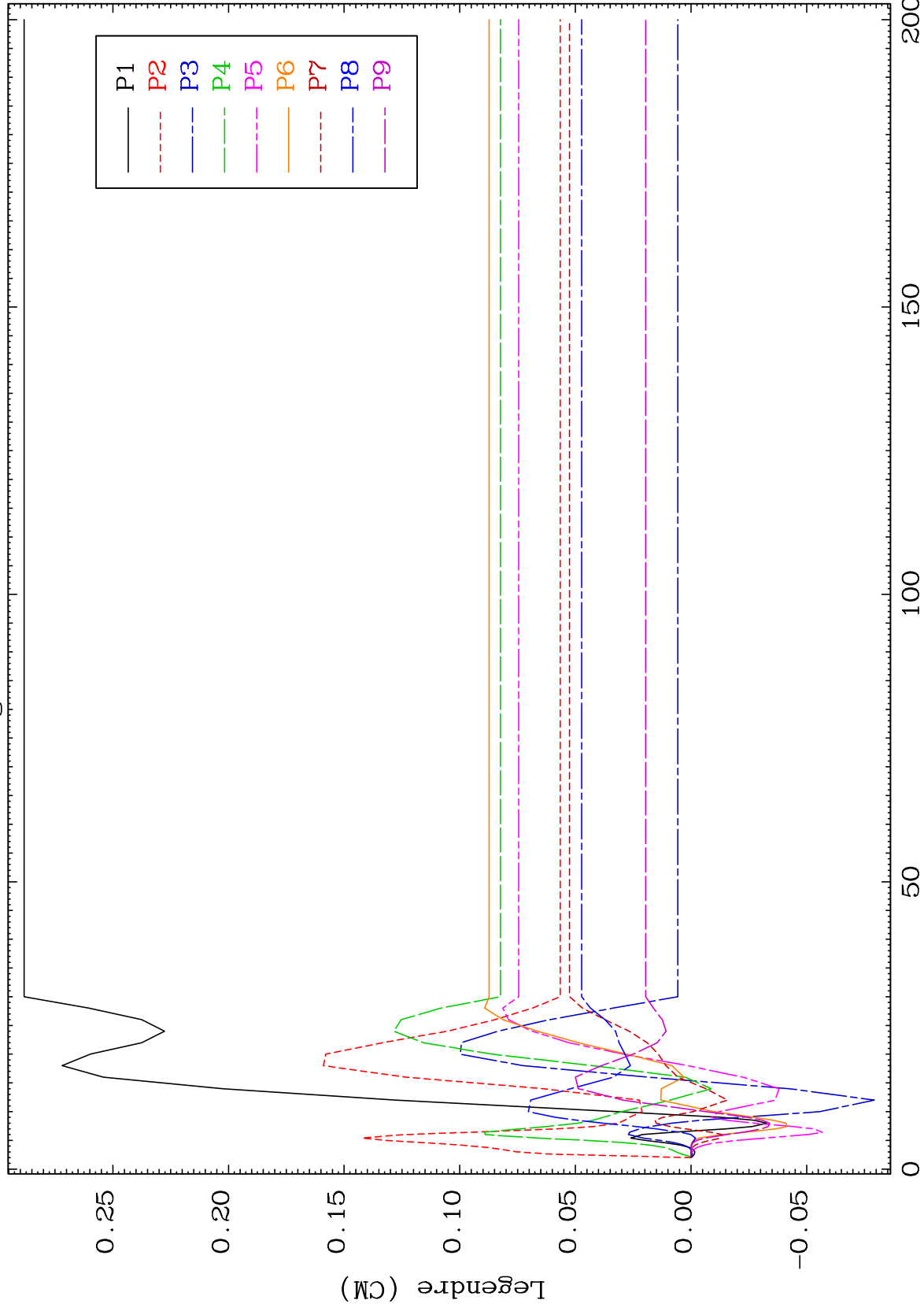
64-Gd-150



MAT 6419

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

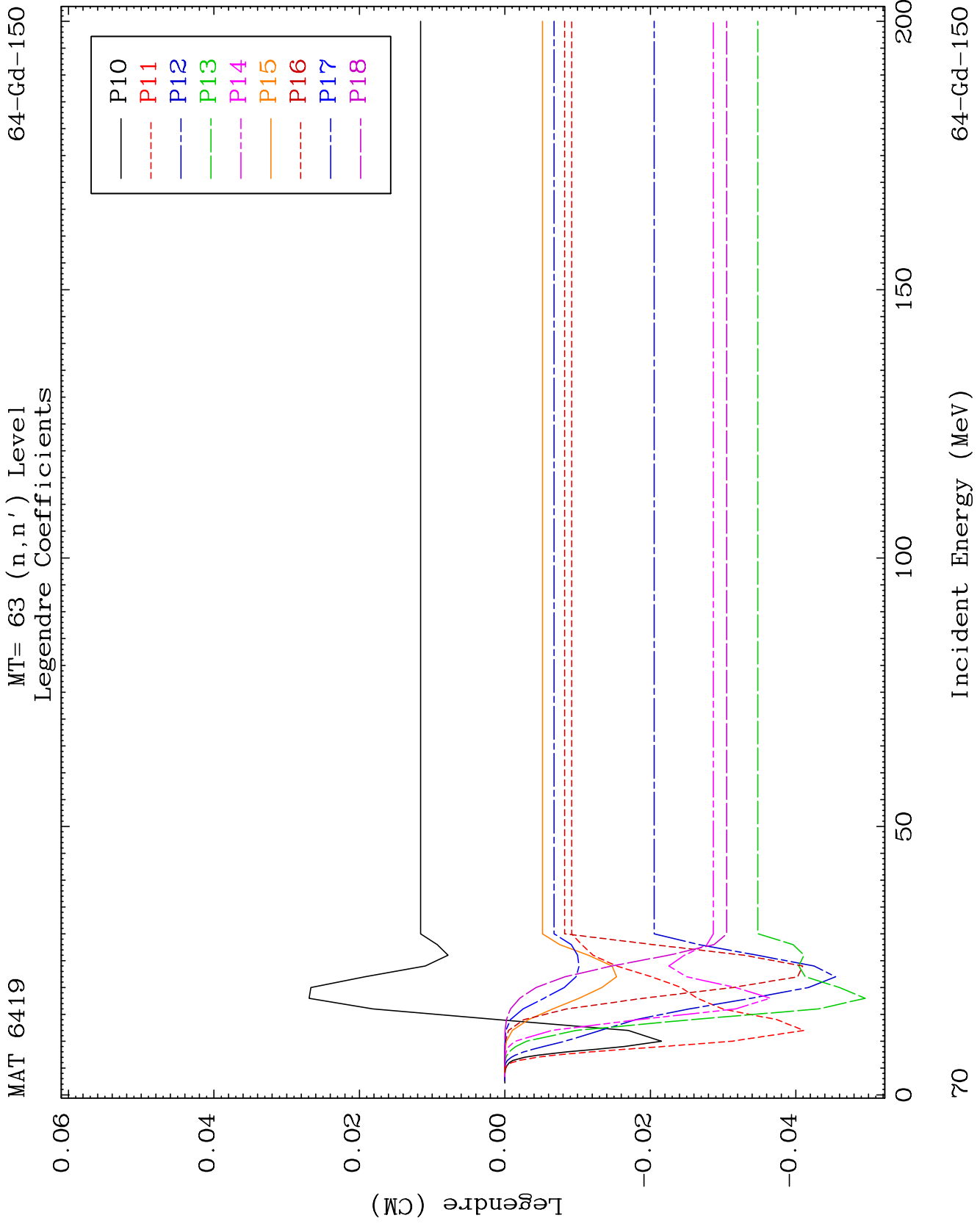
64-Gd-150



69

Incident Energy (MeV)

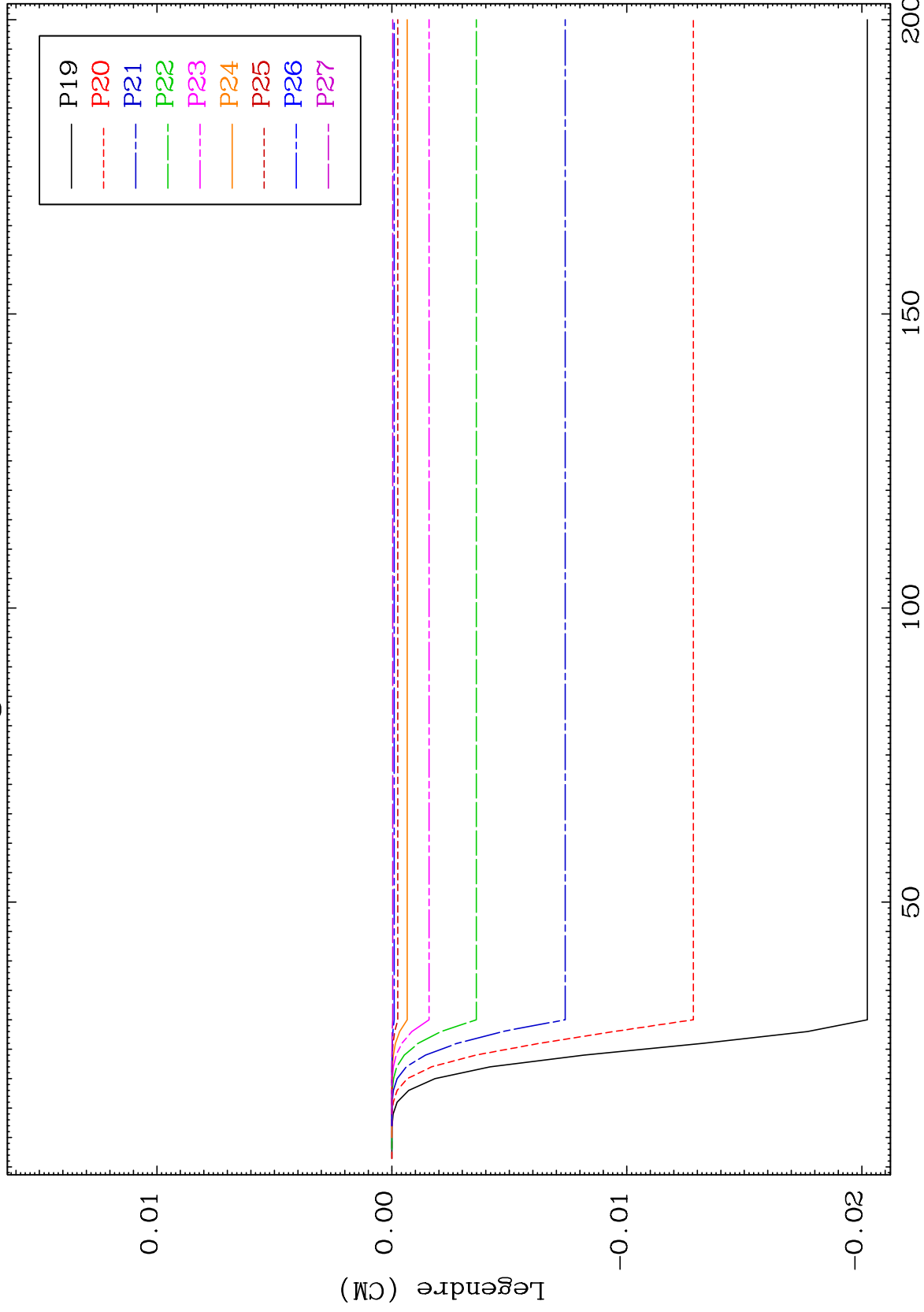
64-Gd-150



MAT 6419

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

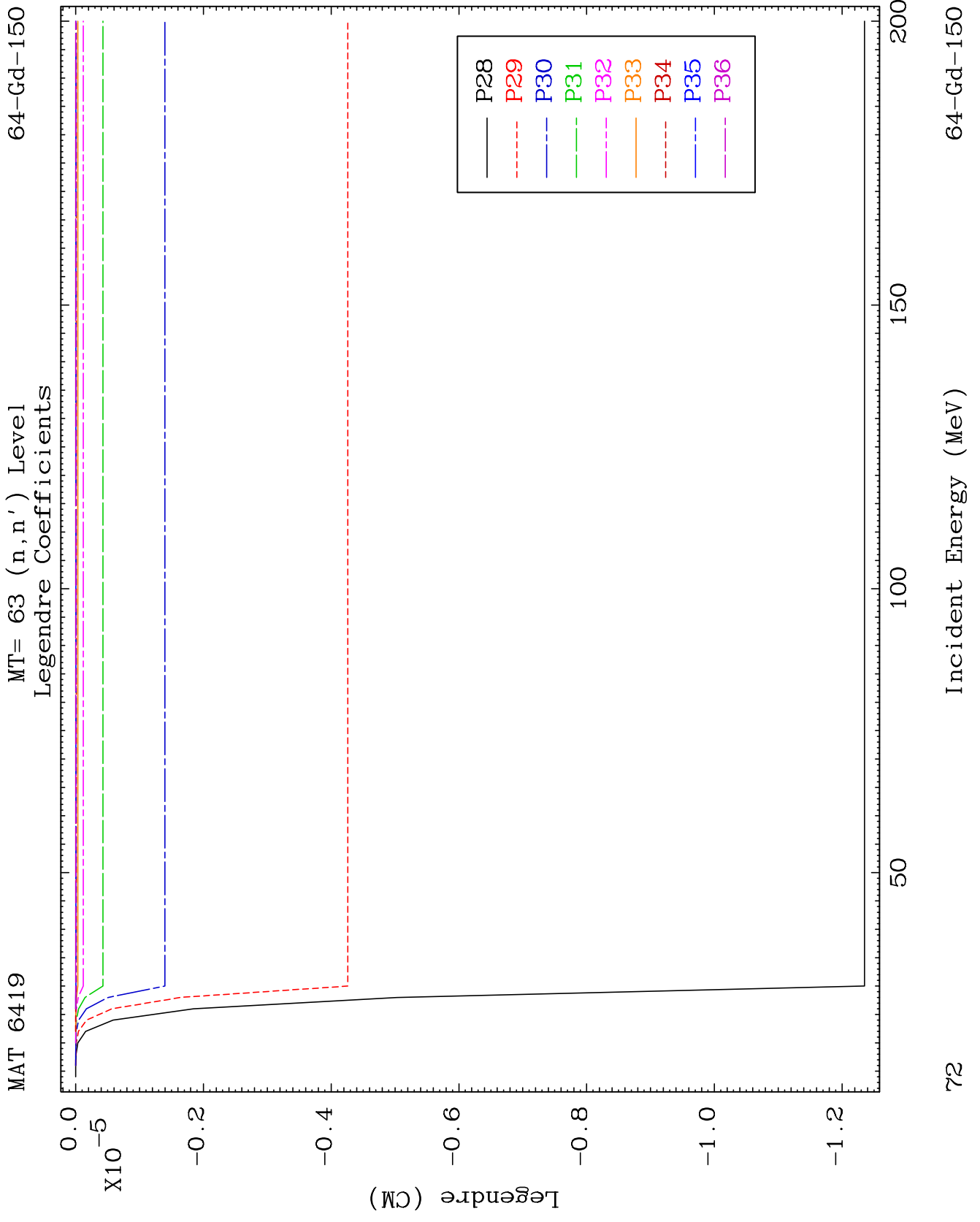
64-Gd-150

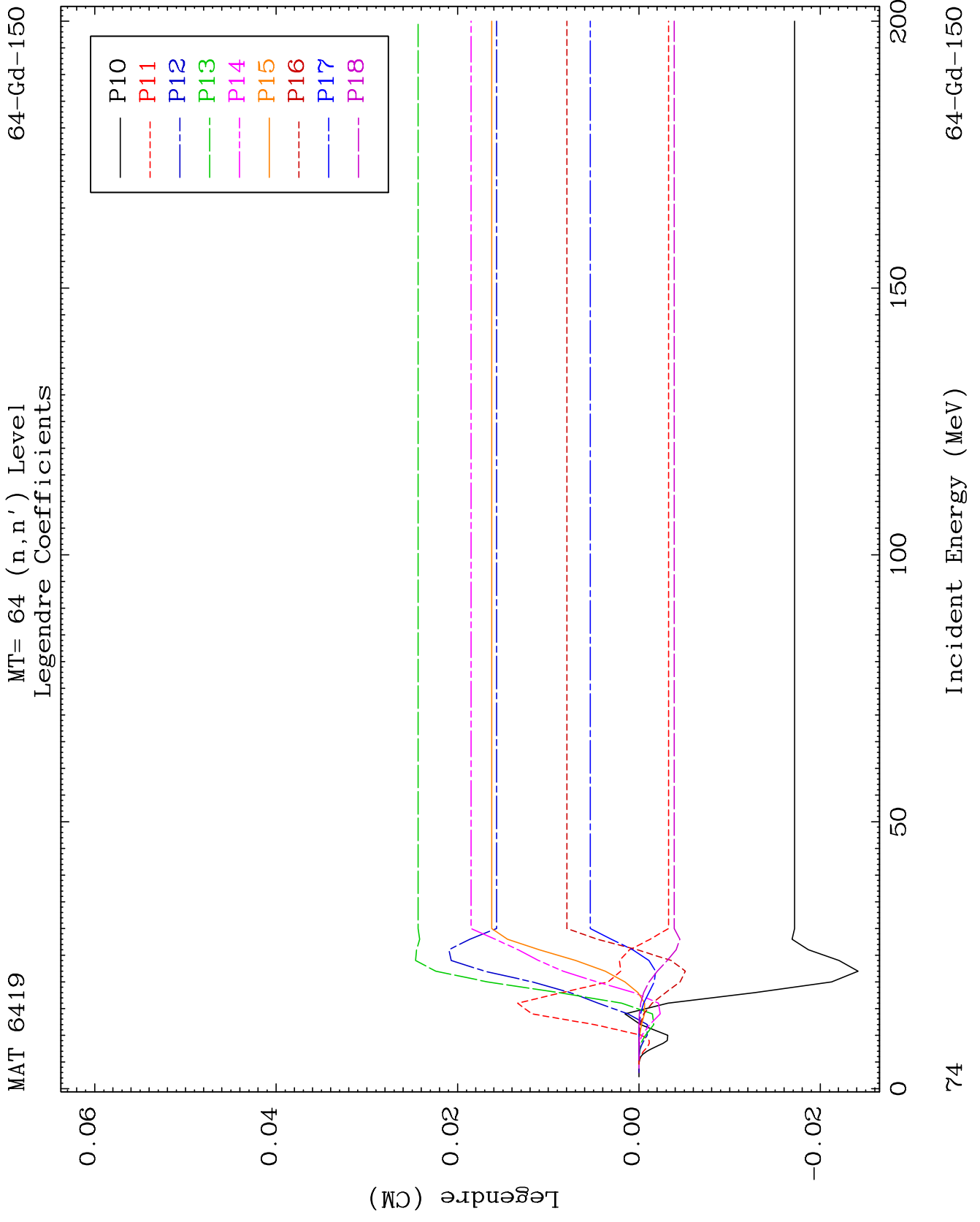


71

Incident Energy (MeV)

64-Gd-150

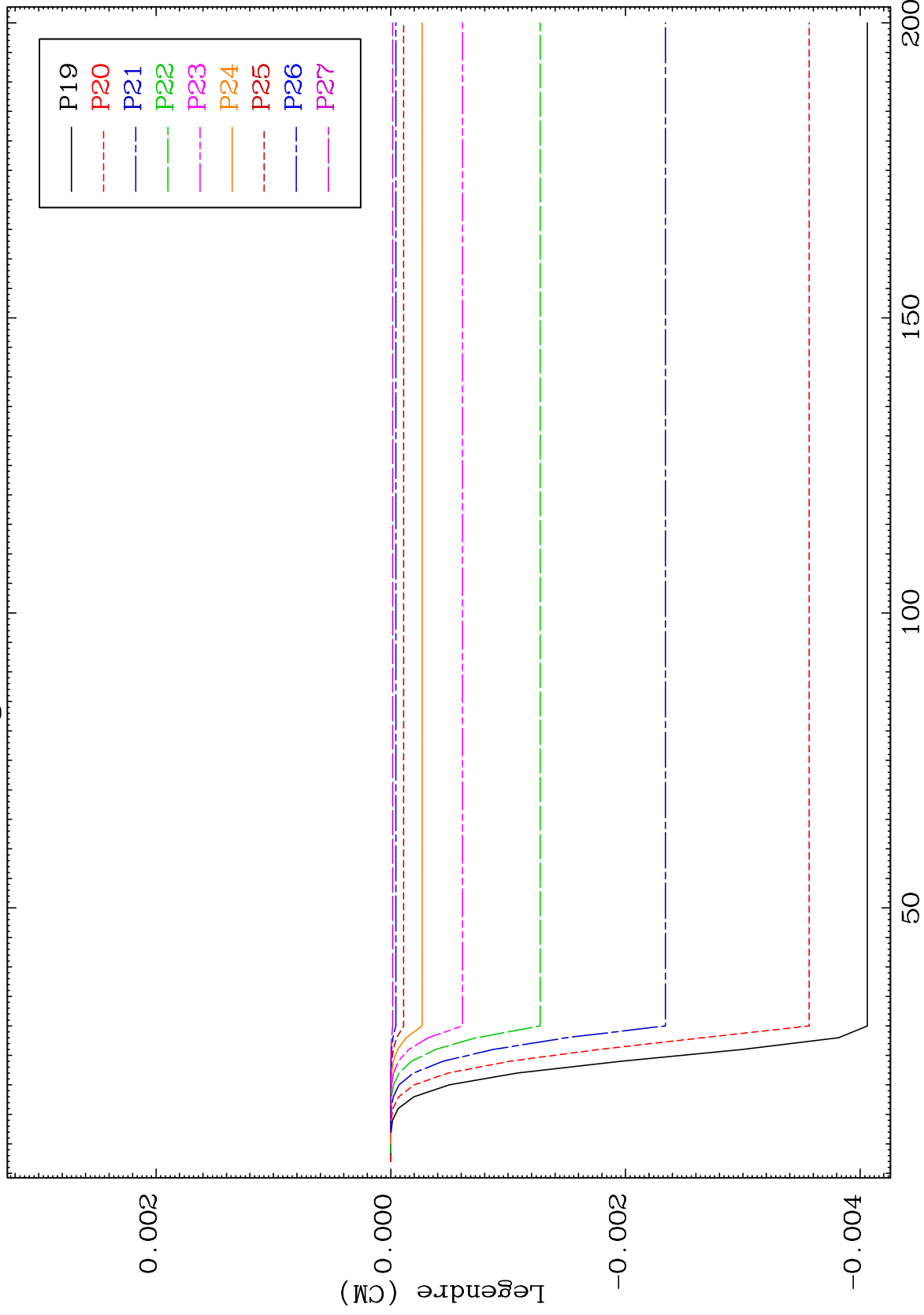




MAT 6419

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

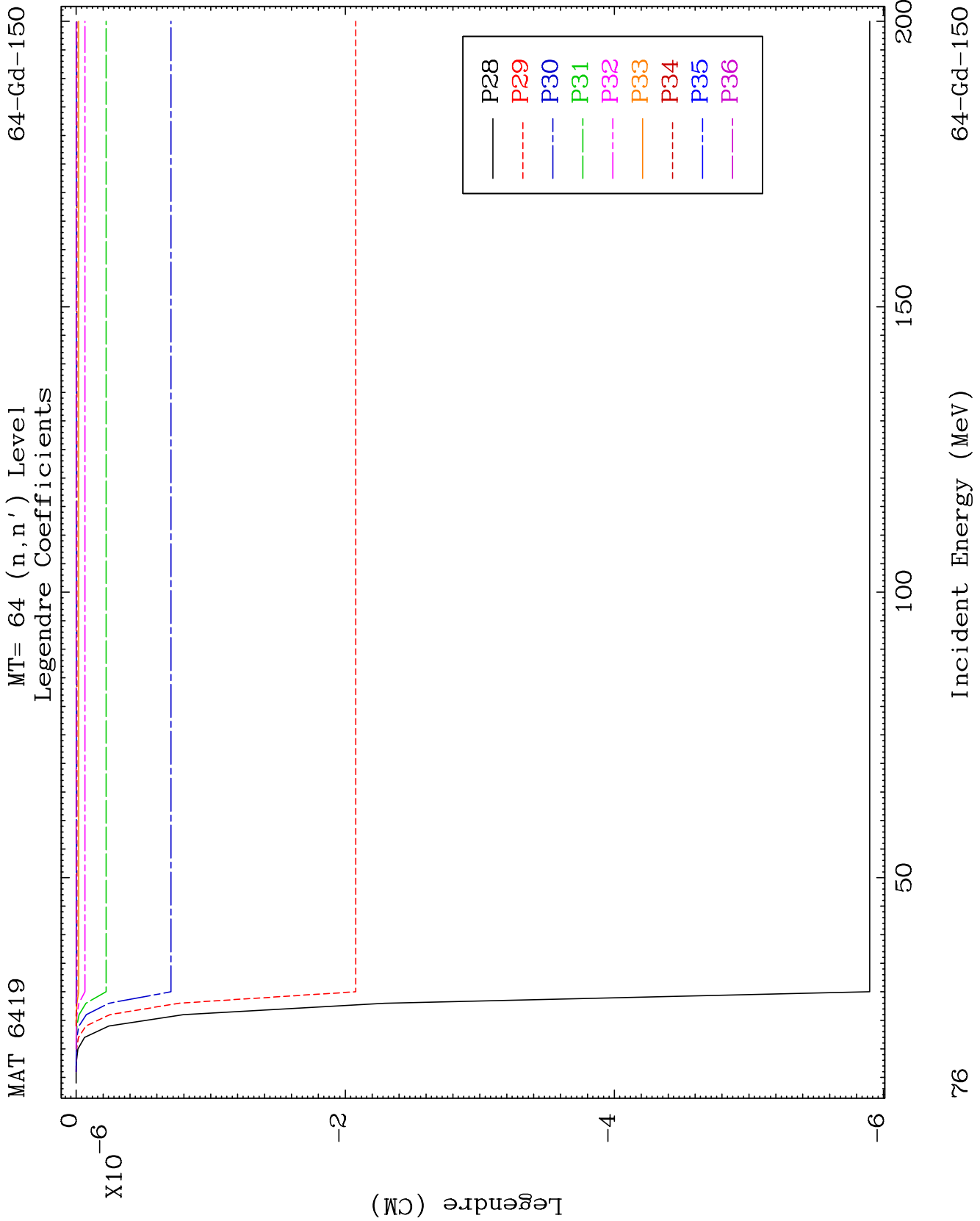
64-Gd-150



75

Incident Energy (MeV)

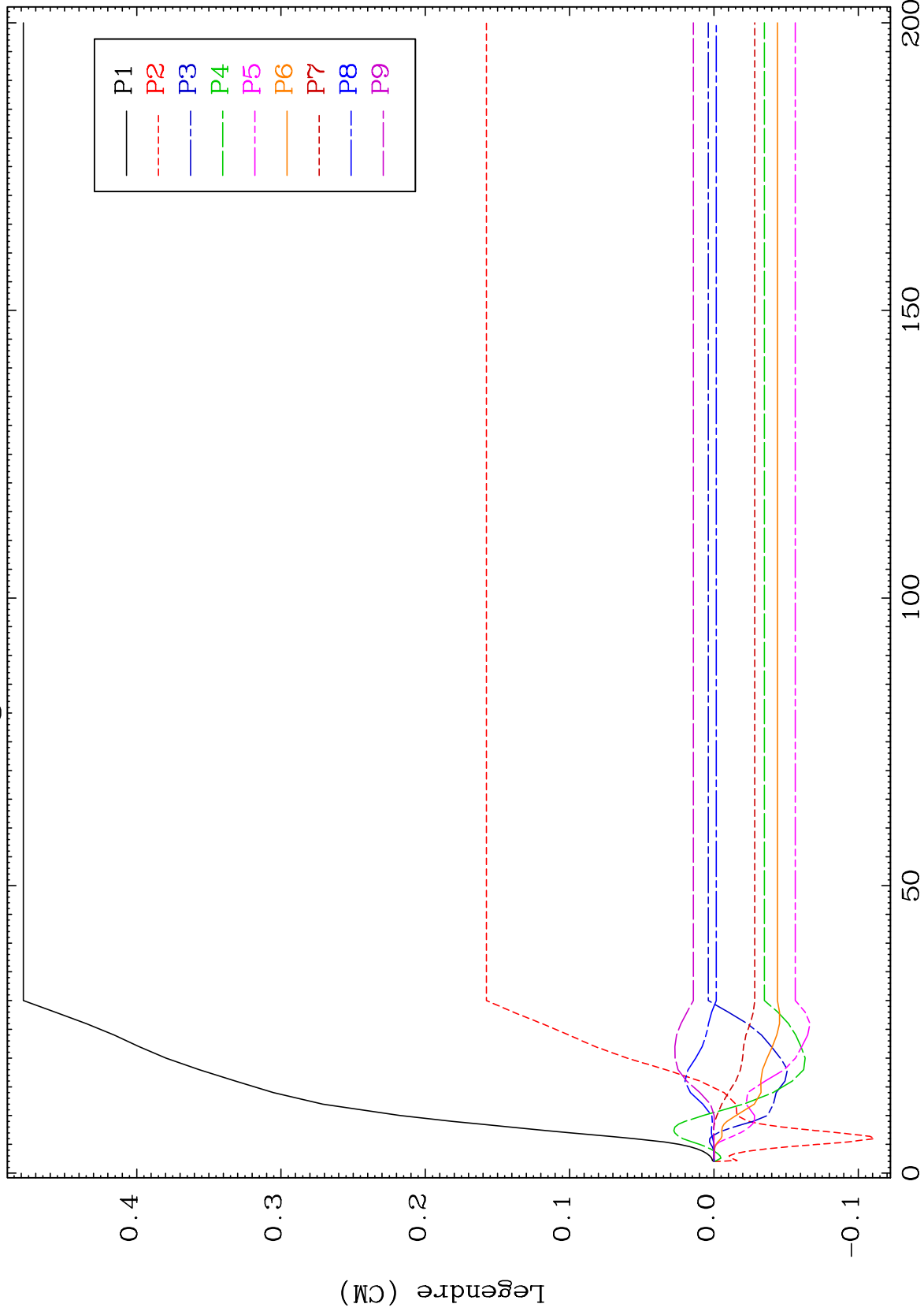
64-Gd-150



MAT 6419

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

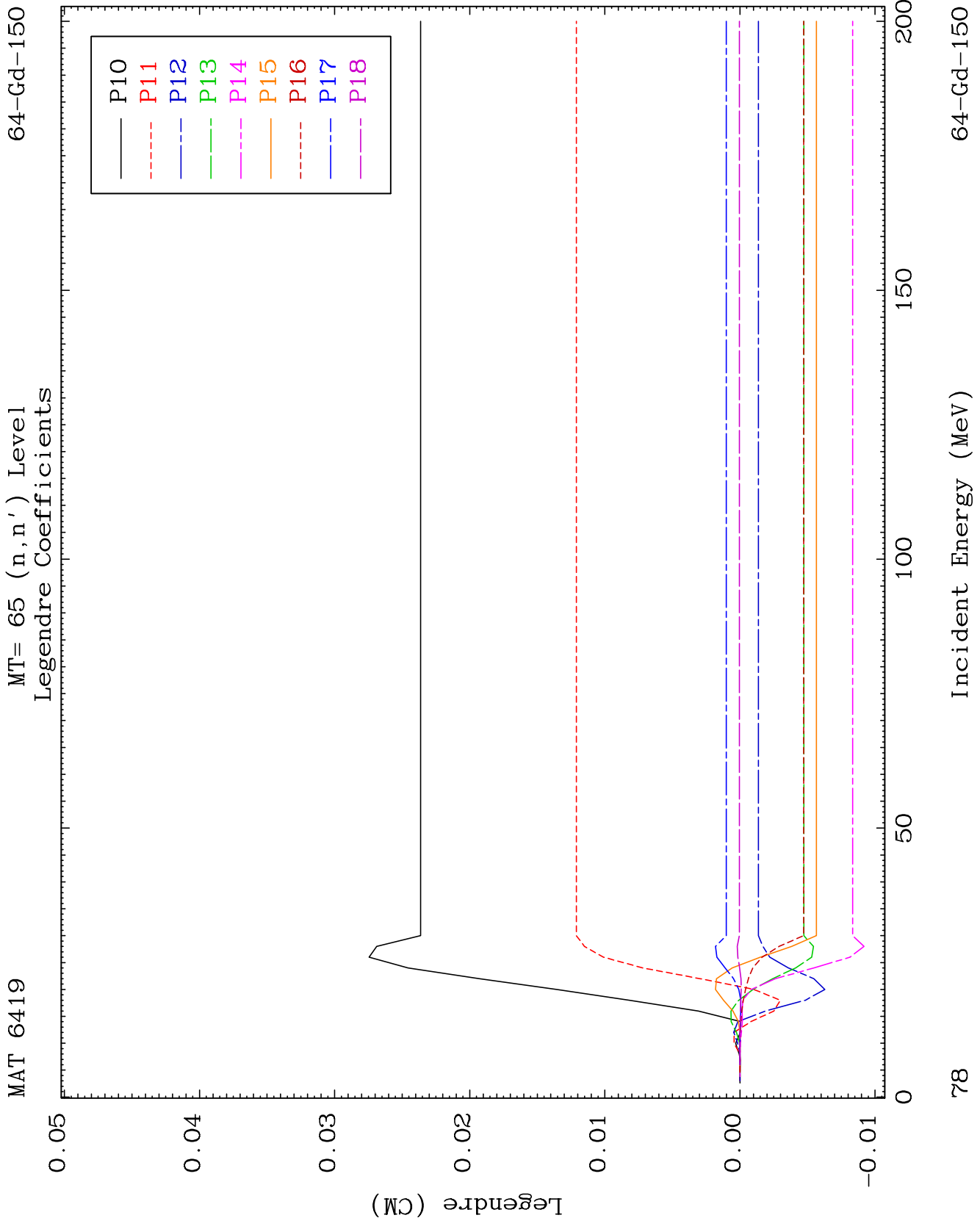
64-Gd-150



77

Incident Energy (MeV)

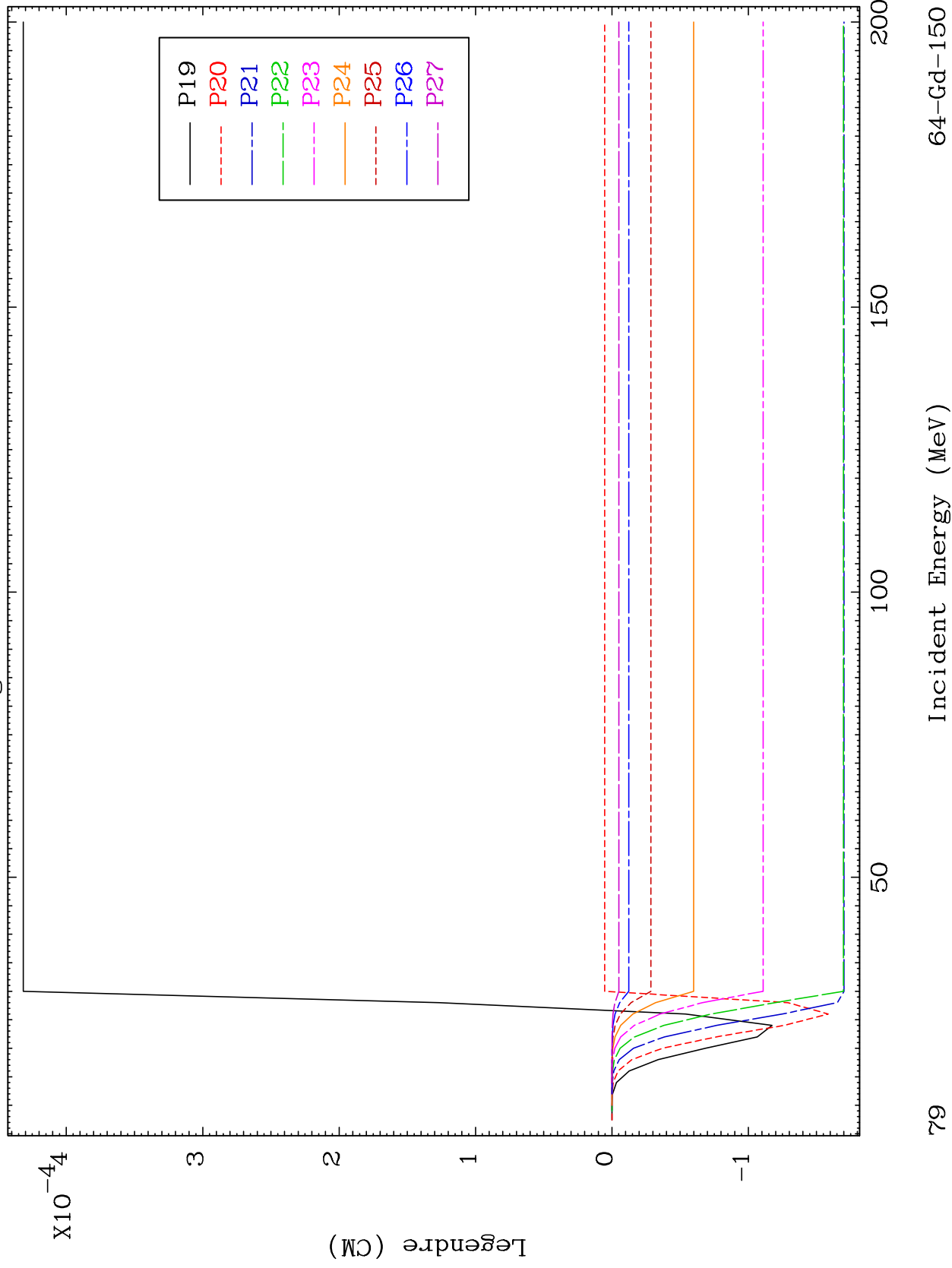
64-Gd-150



MAT 6419

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

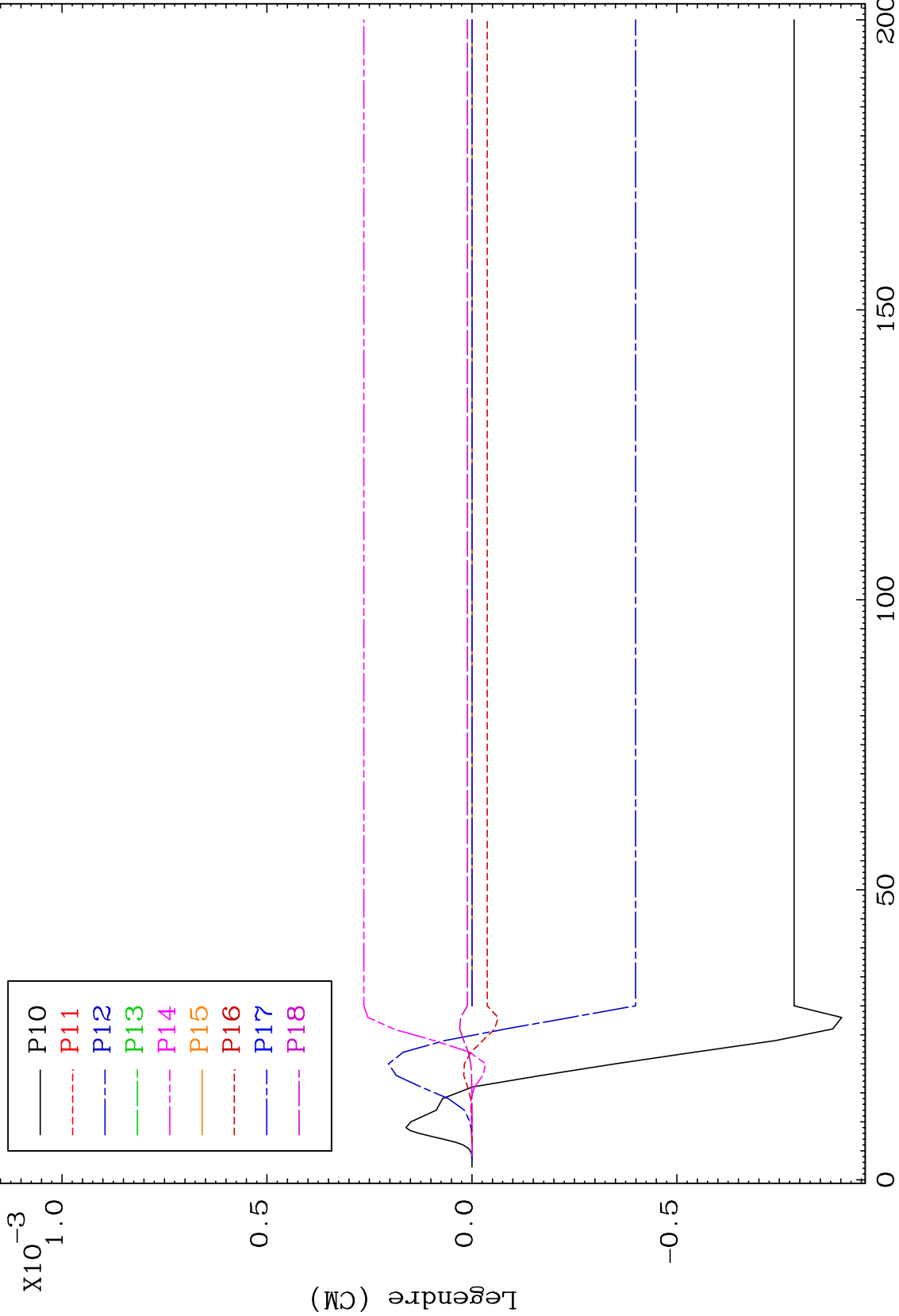
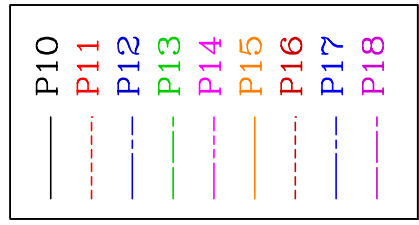
64-Gd-150



MAT 6419

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

64-Gd-150



82

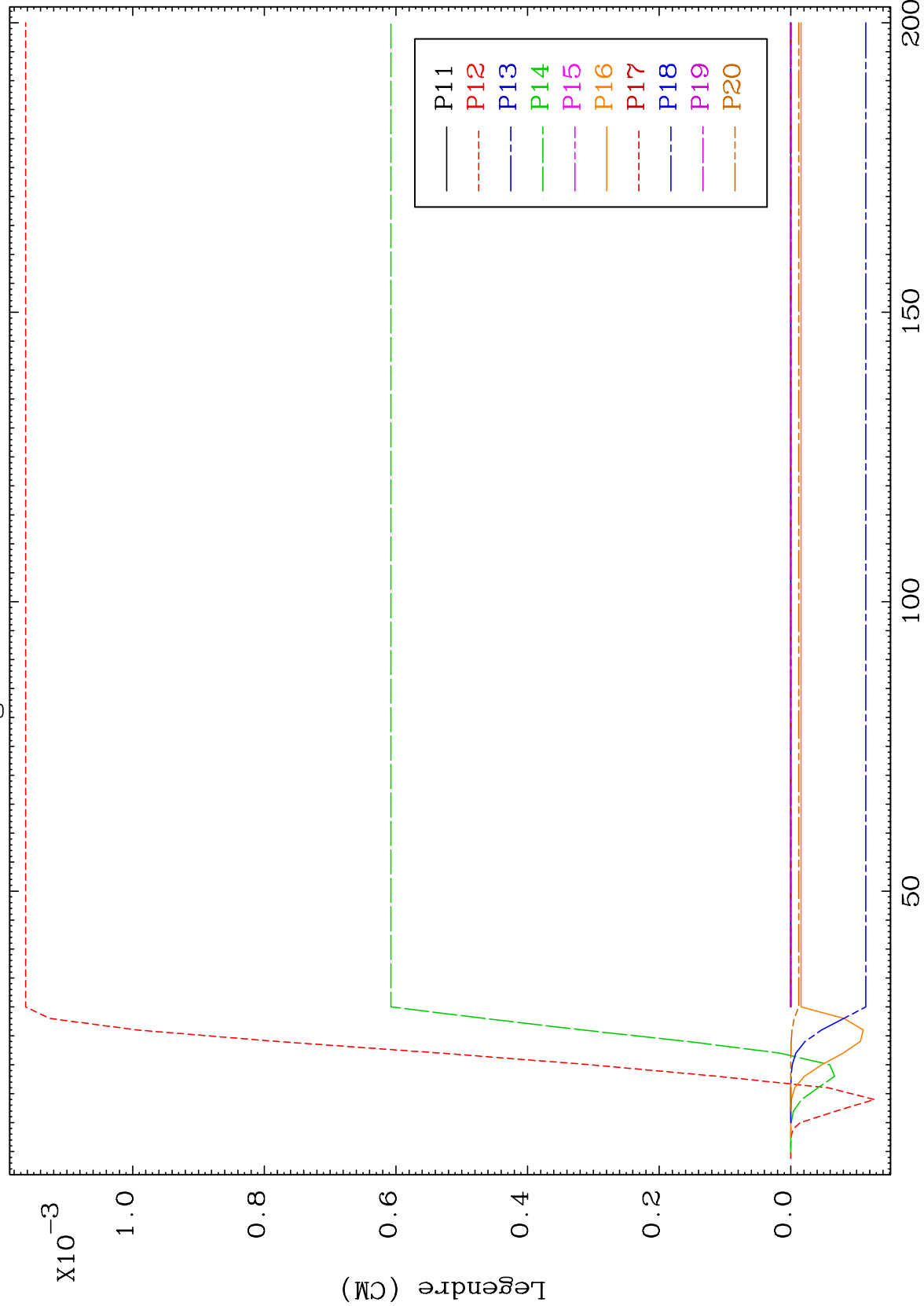
Incident Energy (MeV)

64-Gd-150

MAT 6419

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

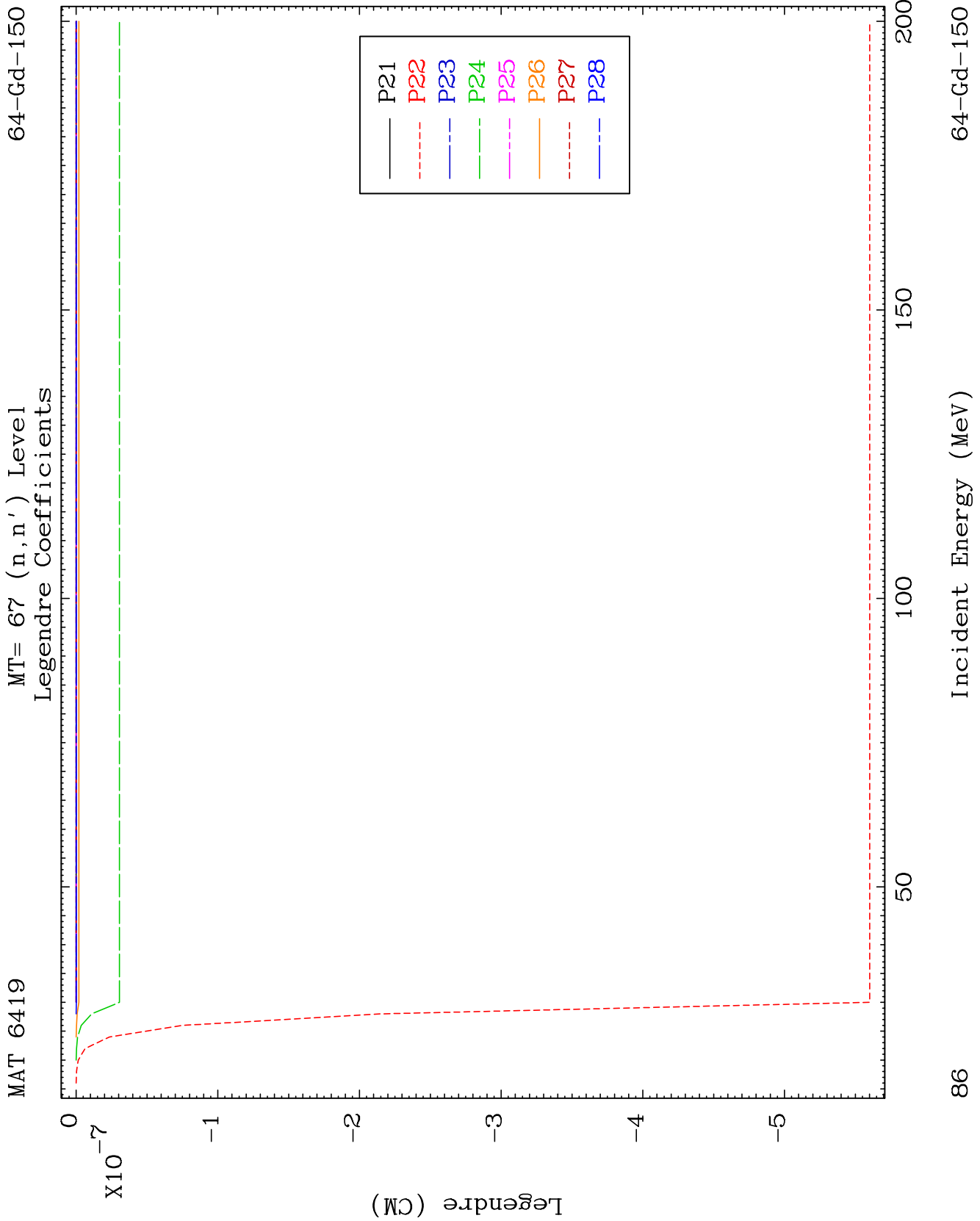
64-Gd-150

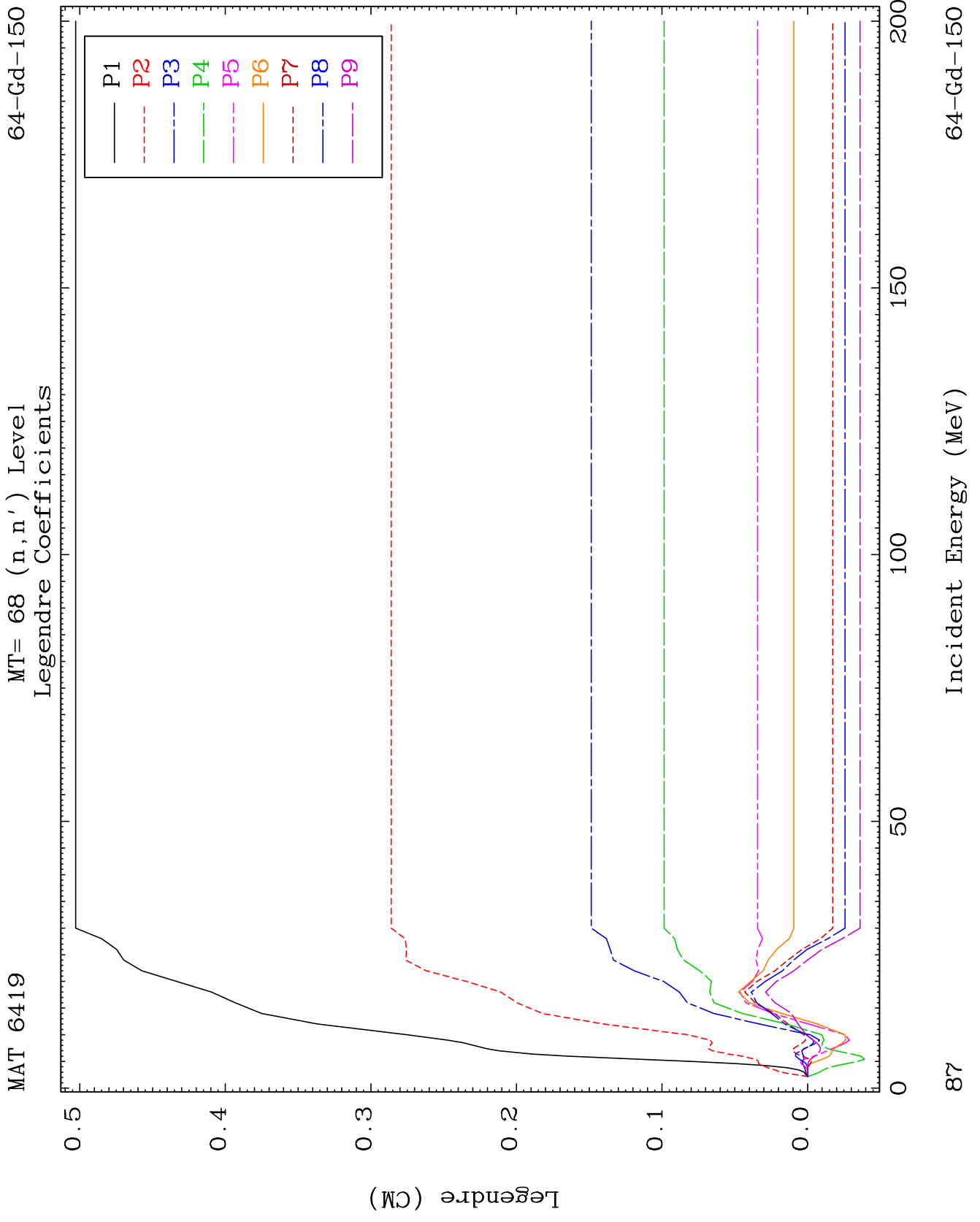


85

Incident Energy (MeV)

64-Gd-150

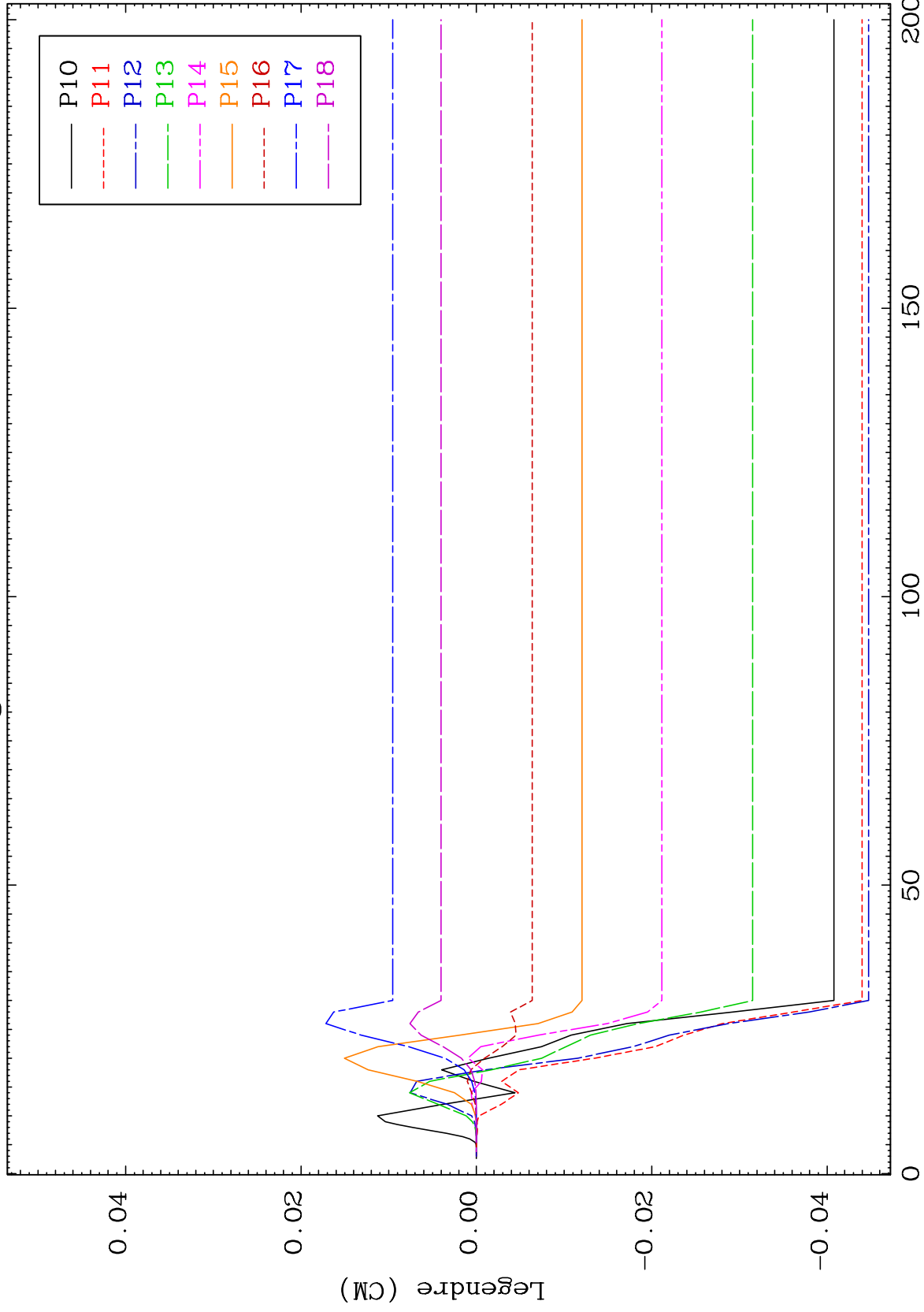




MAT 6419

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

64-Gd-150



88

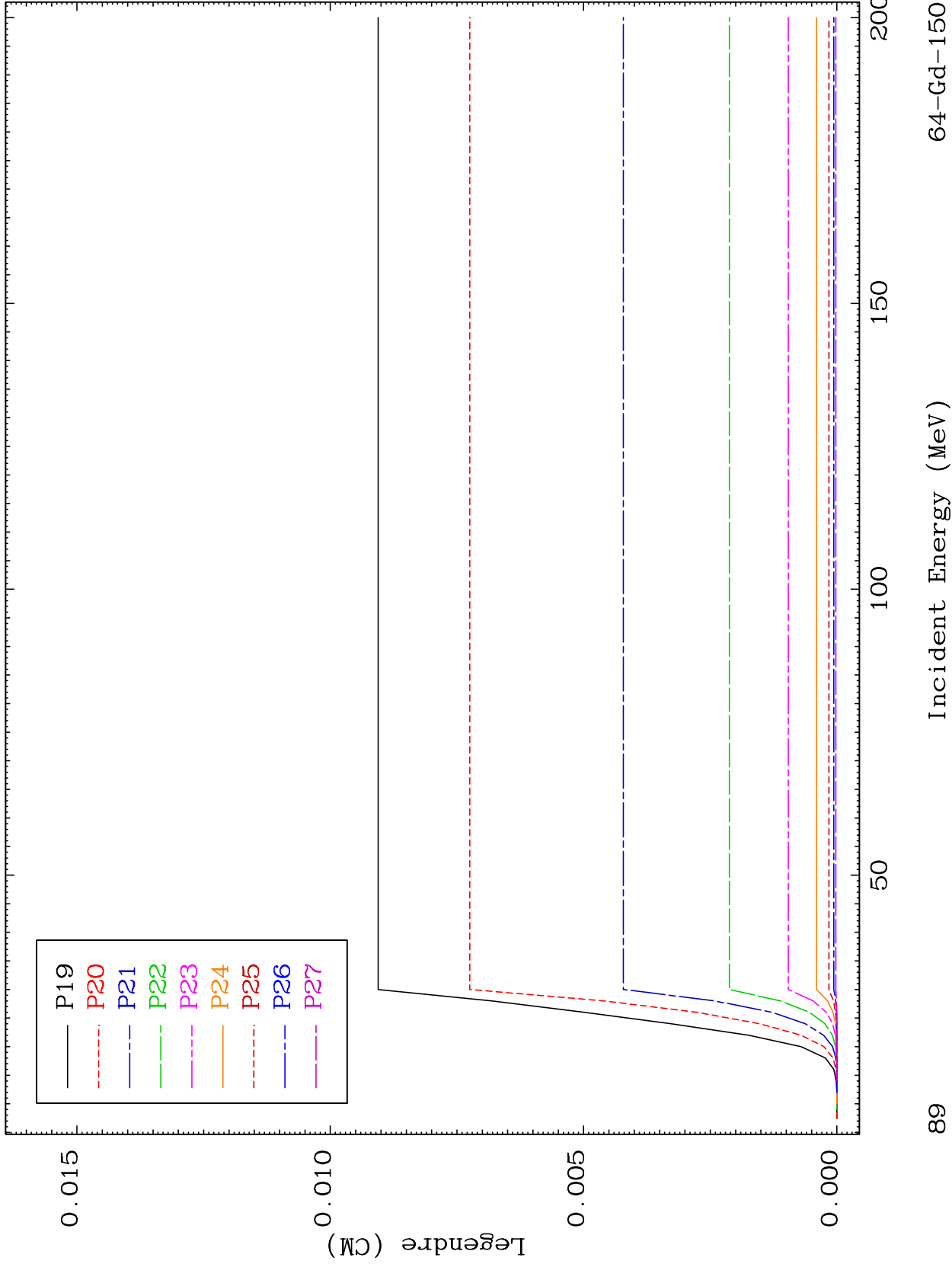
Incident Energy (MeV)

64-Gd-150

MAT 6419

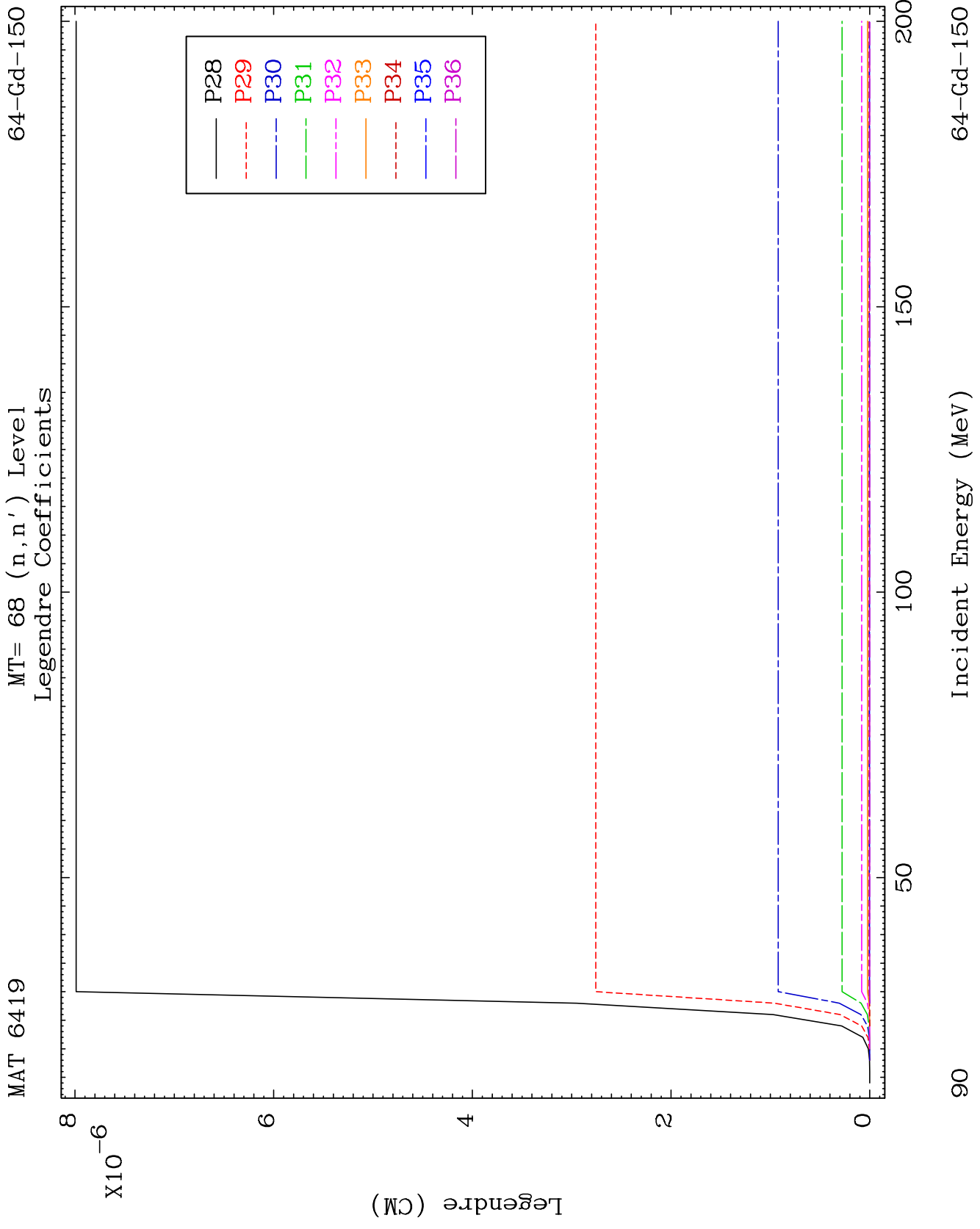
MT= 68 (n,n') Level
Legendre Coefficients

64-Gd-150



89

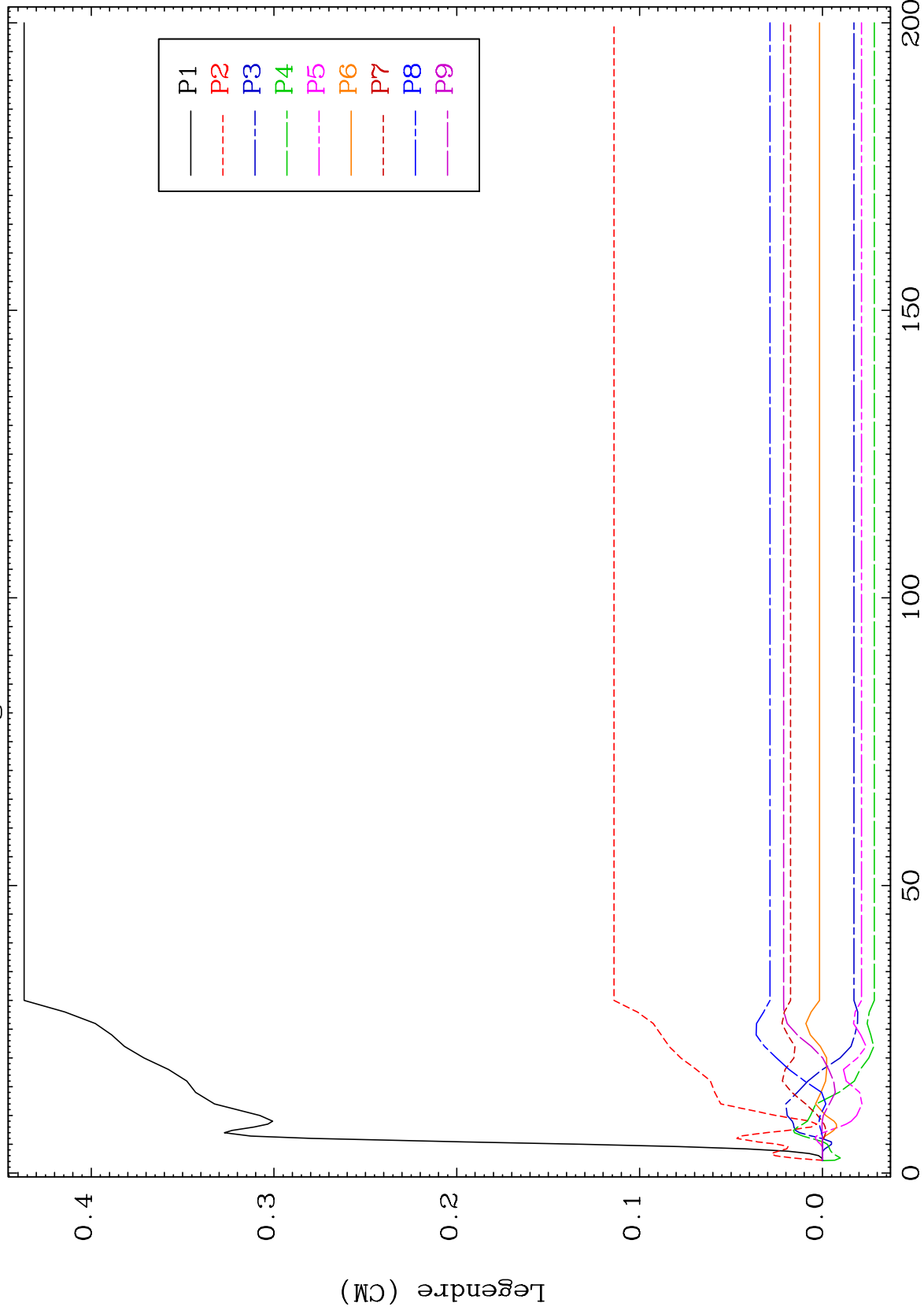
64-Gd-150



MAT 6419

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

64-Gd-150



91

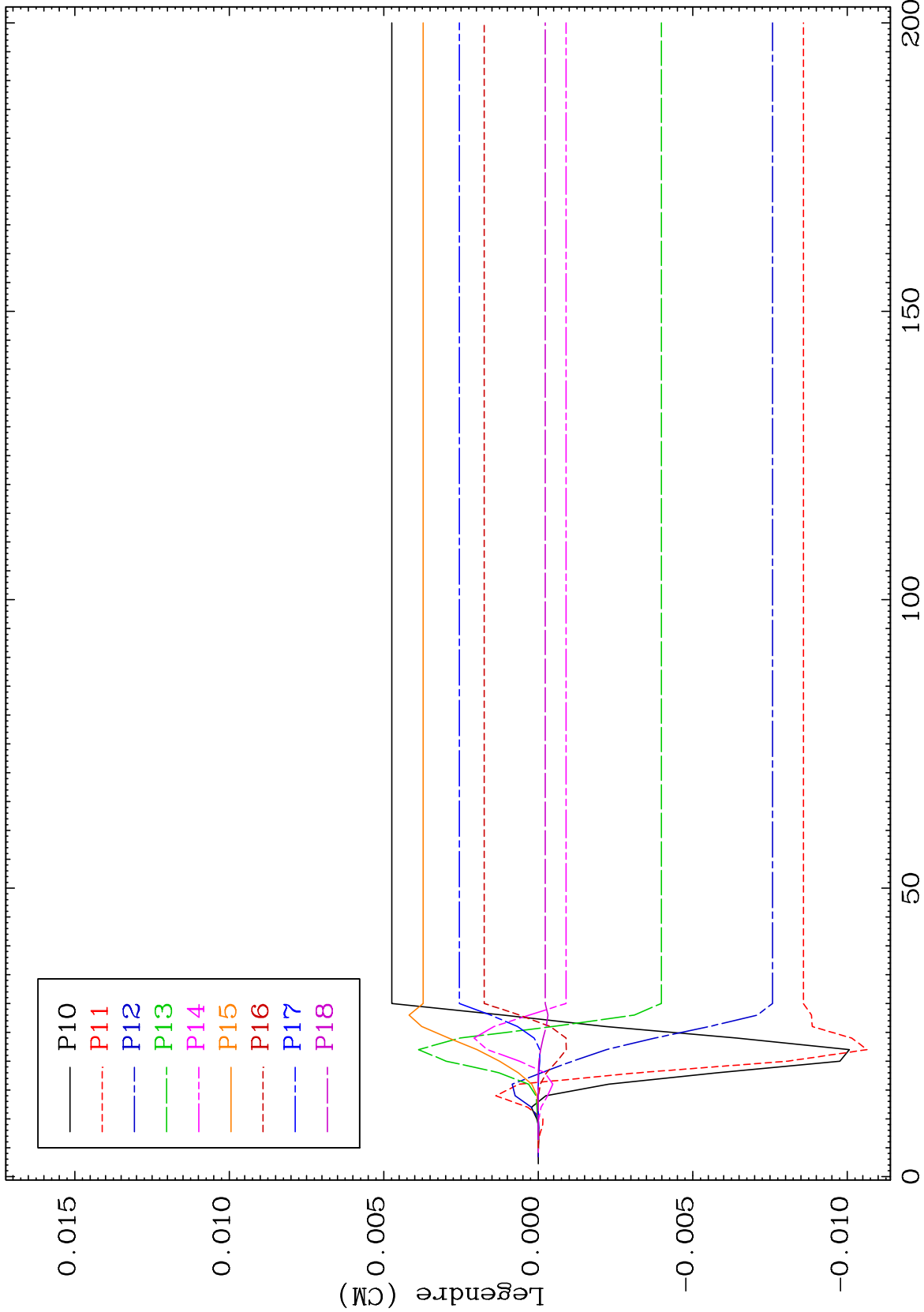
Incident Energy (MeV)

64-Gd-150

MAT 6419

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

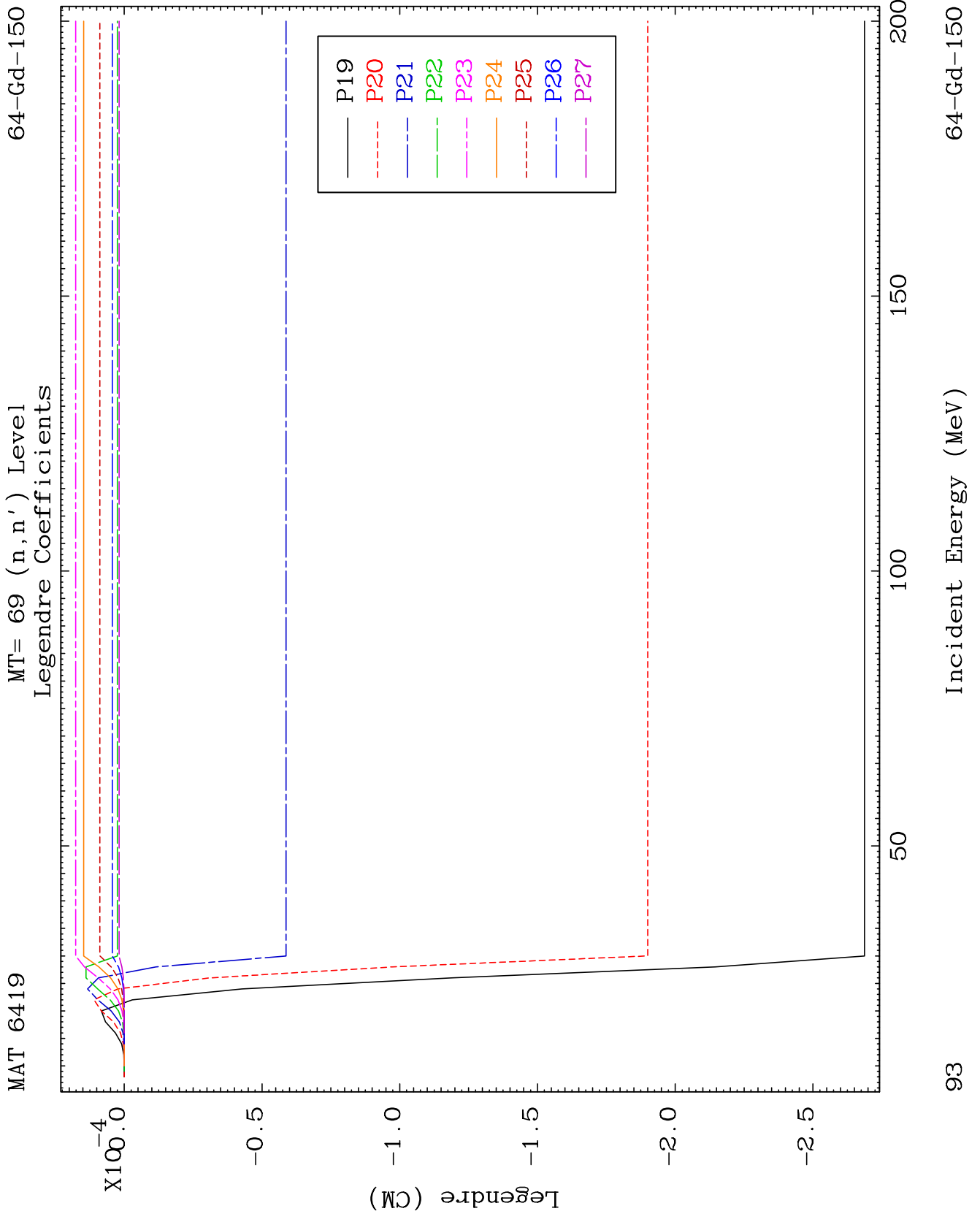
64-Gd-150

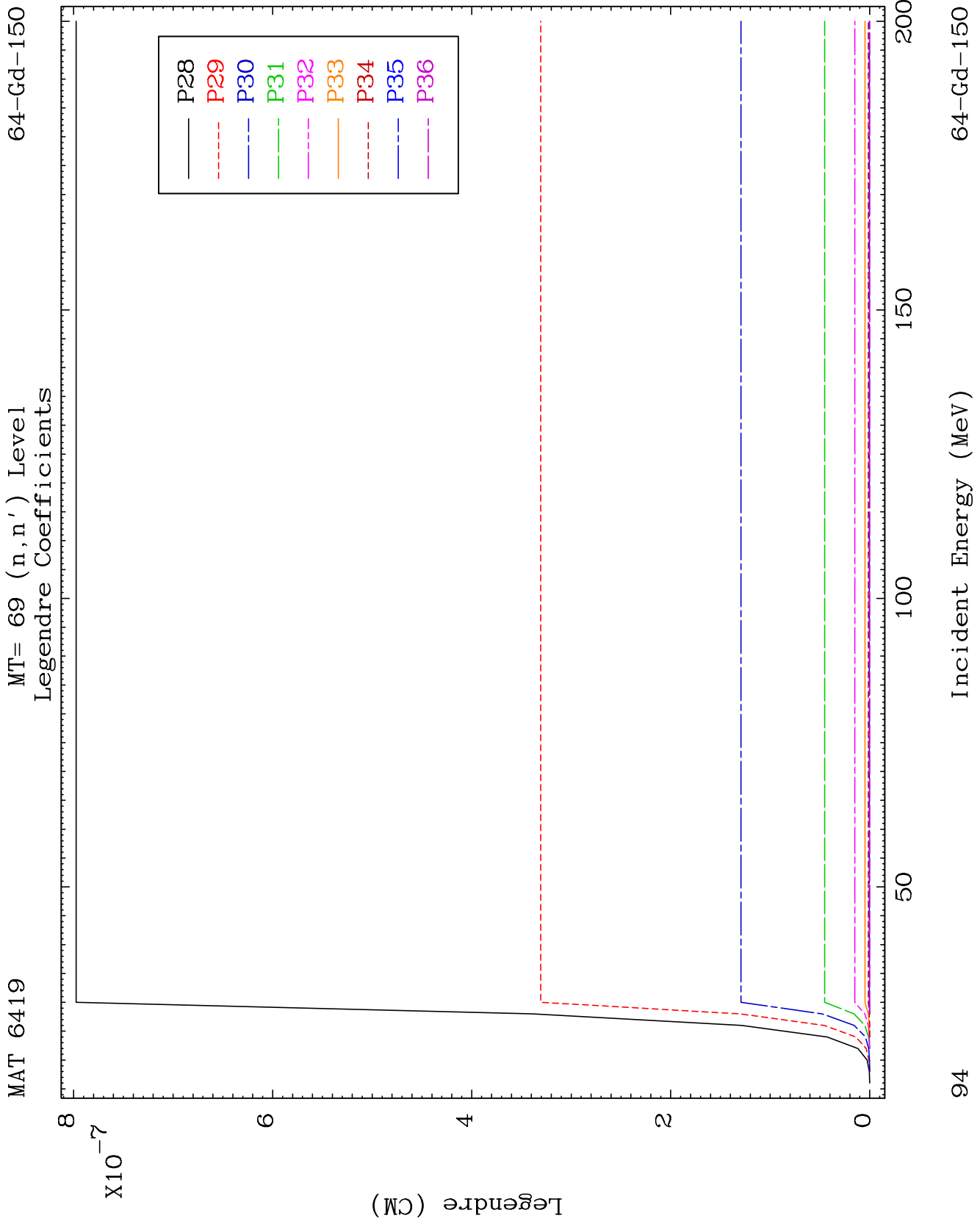


92

Incident Energy (MeV)

64-Gd-150

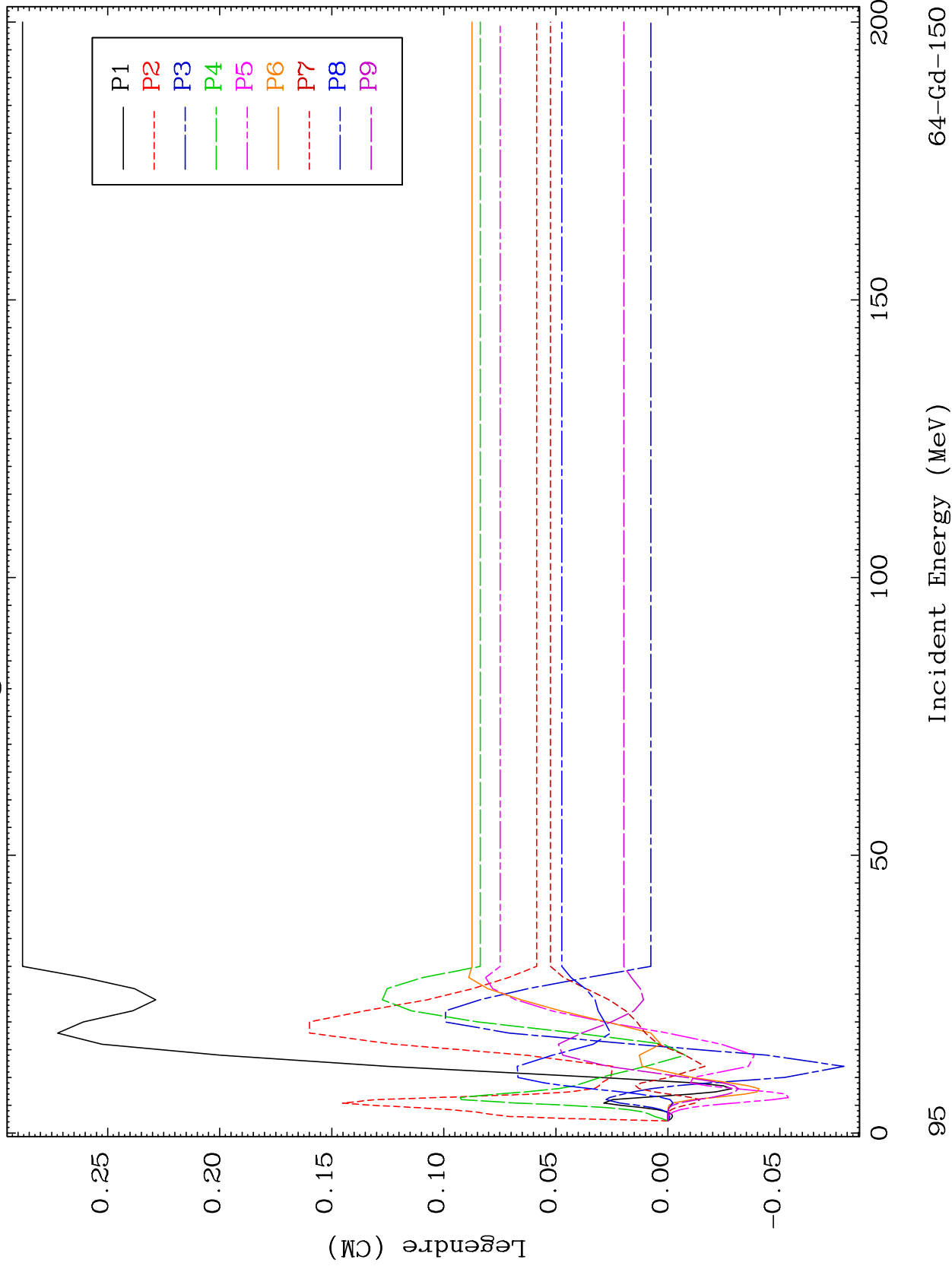




MAT 6419

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

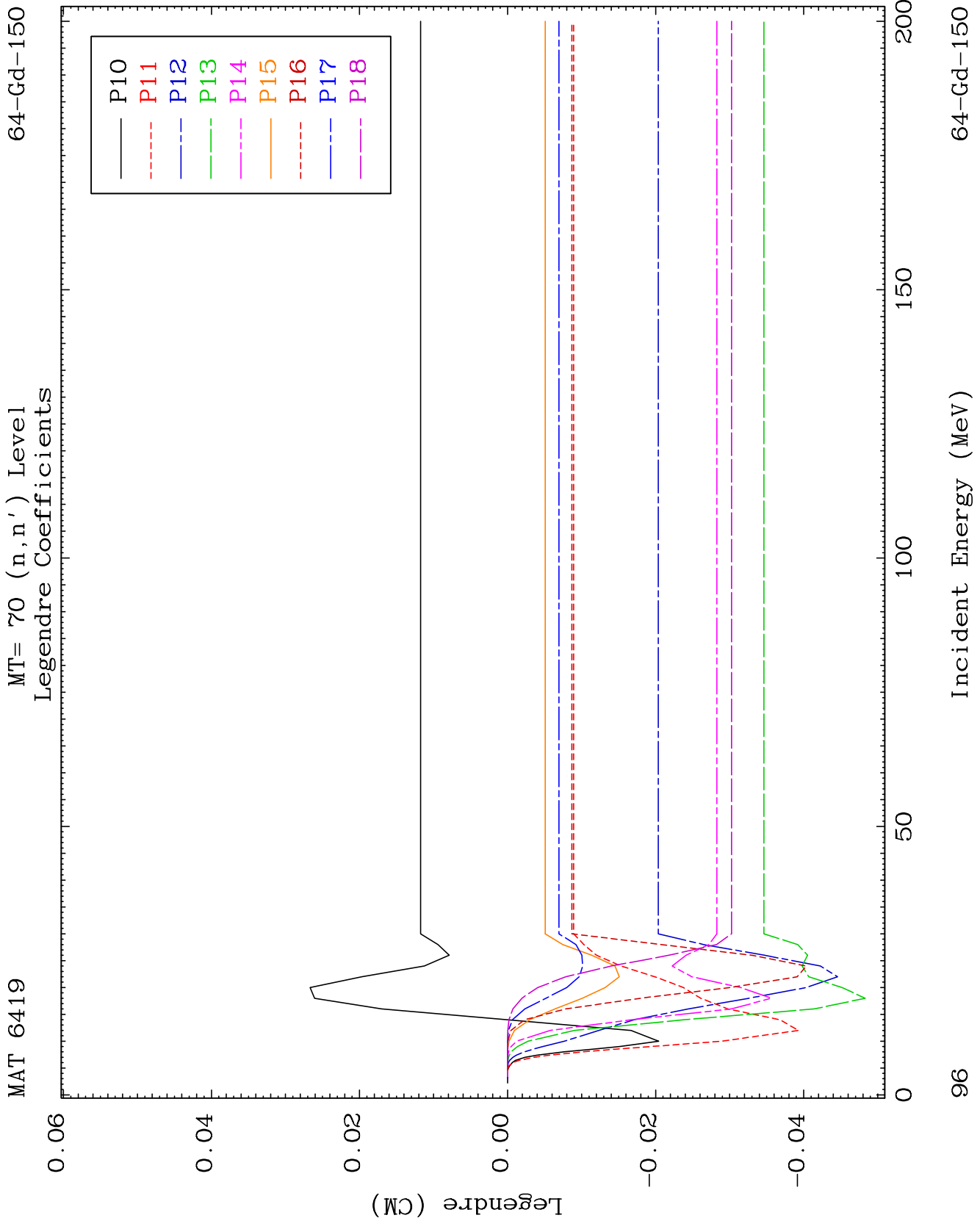
64-Gd-150



64-Gd-150

Incident Energy (MeV)

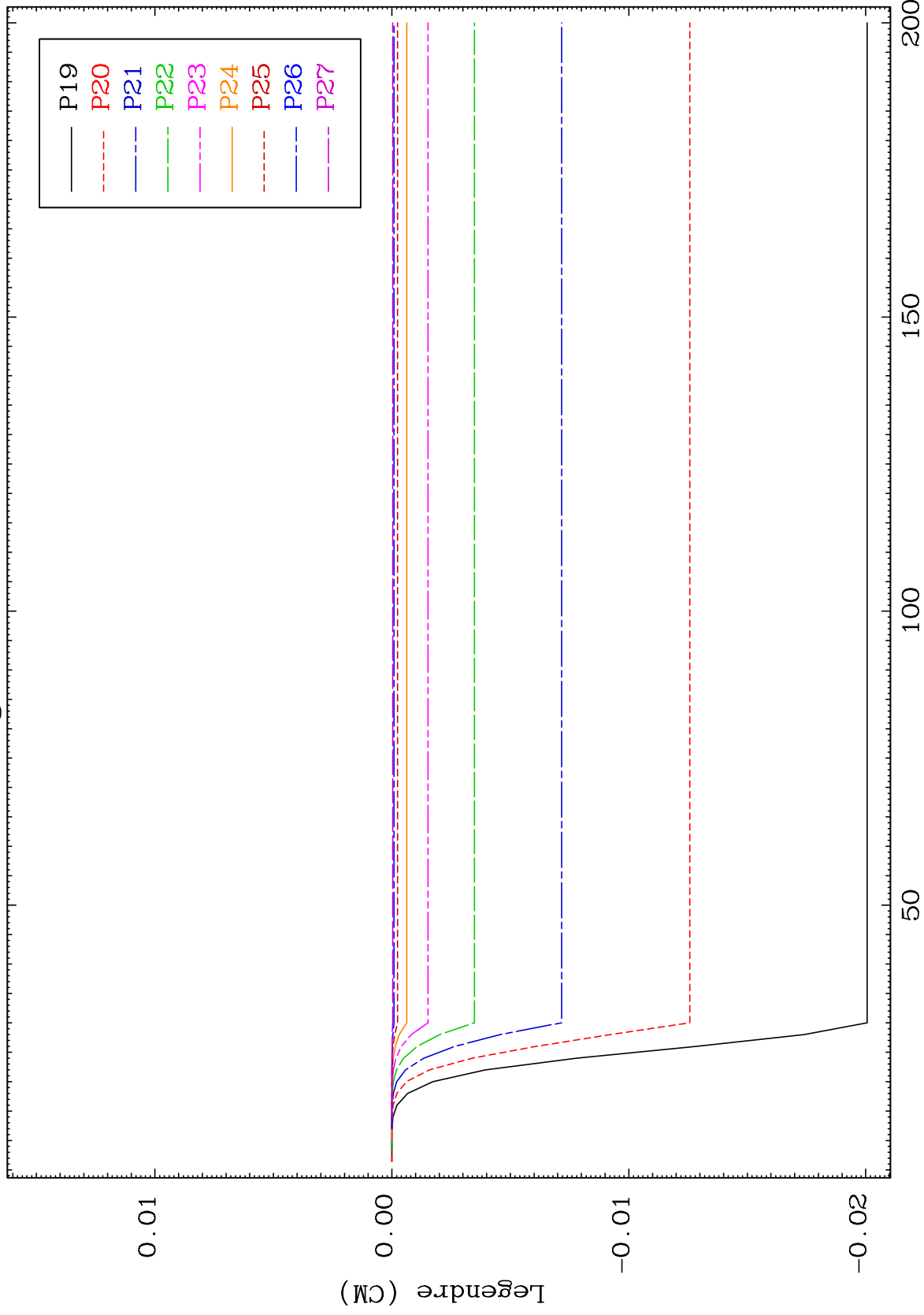
95



MAT 6419

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

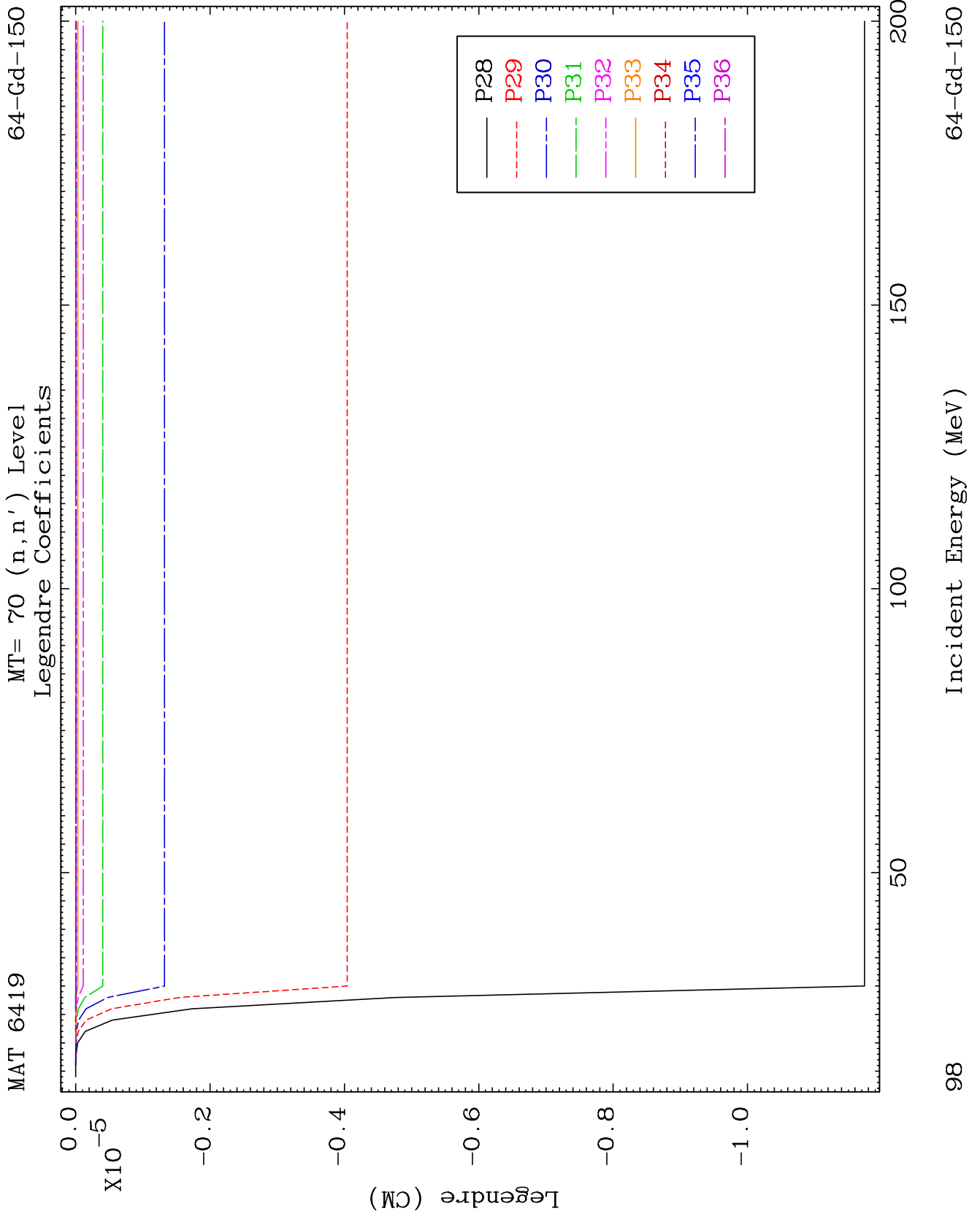
64-Gd-150

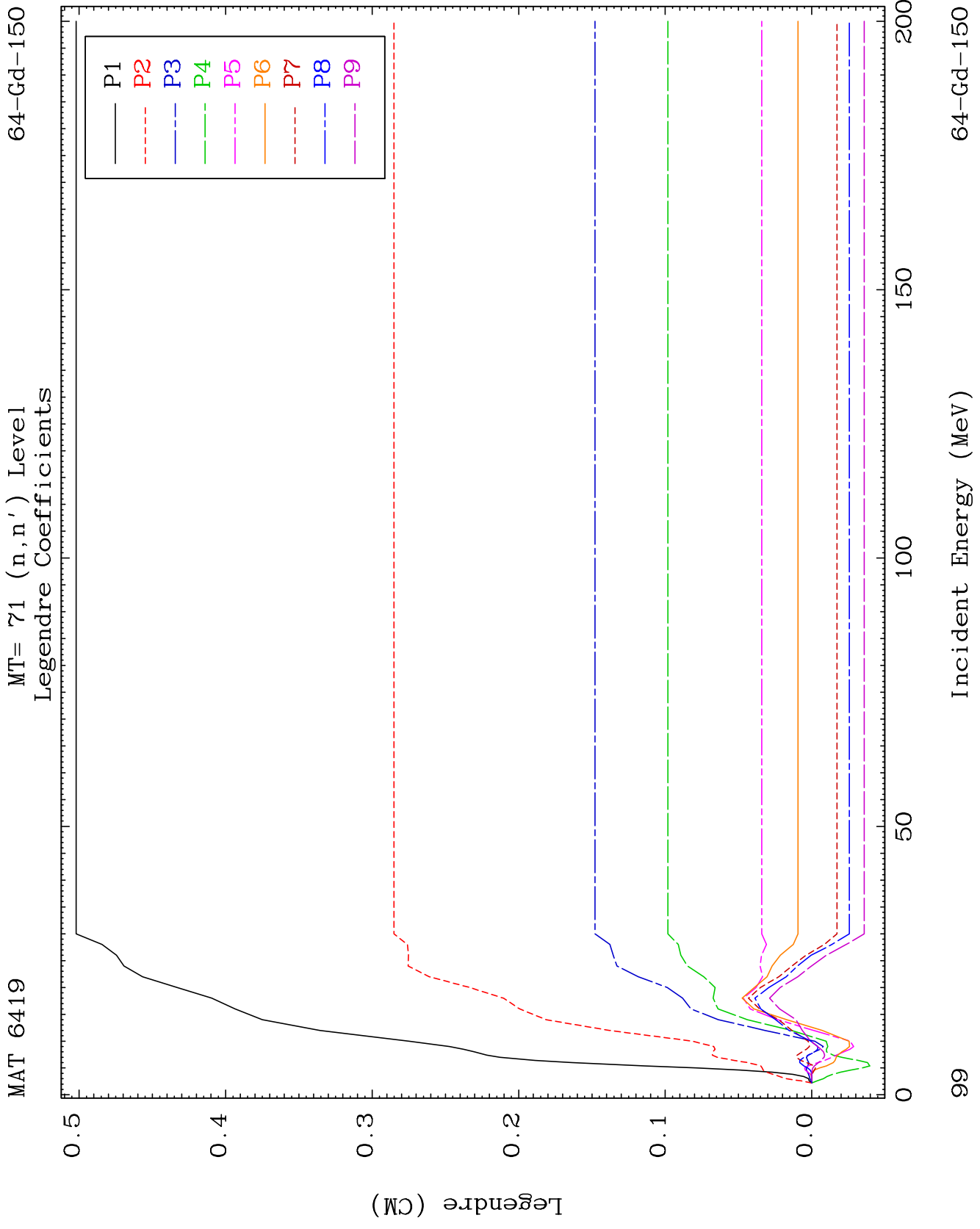


97

Incident Energy (MeV)

64-Gd-150

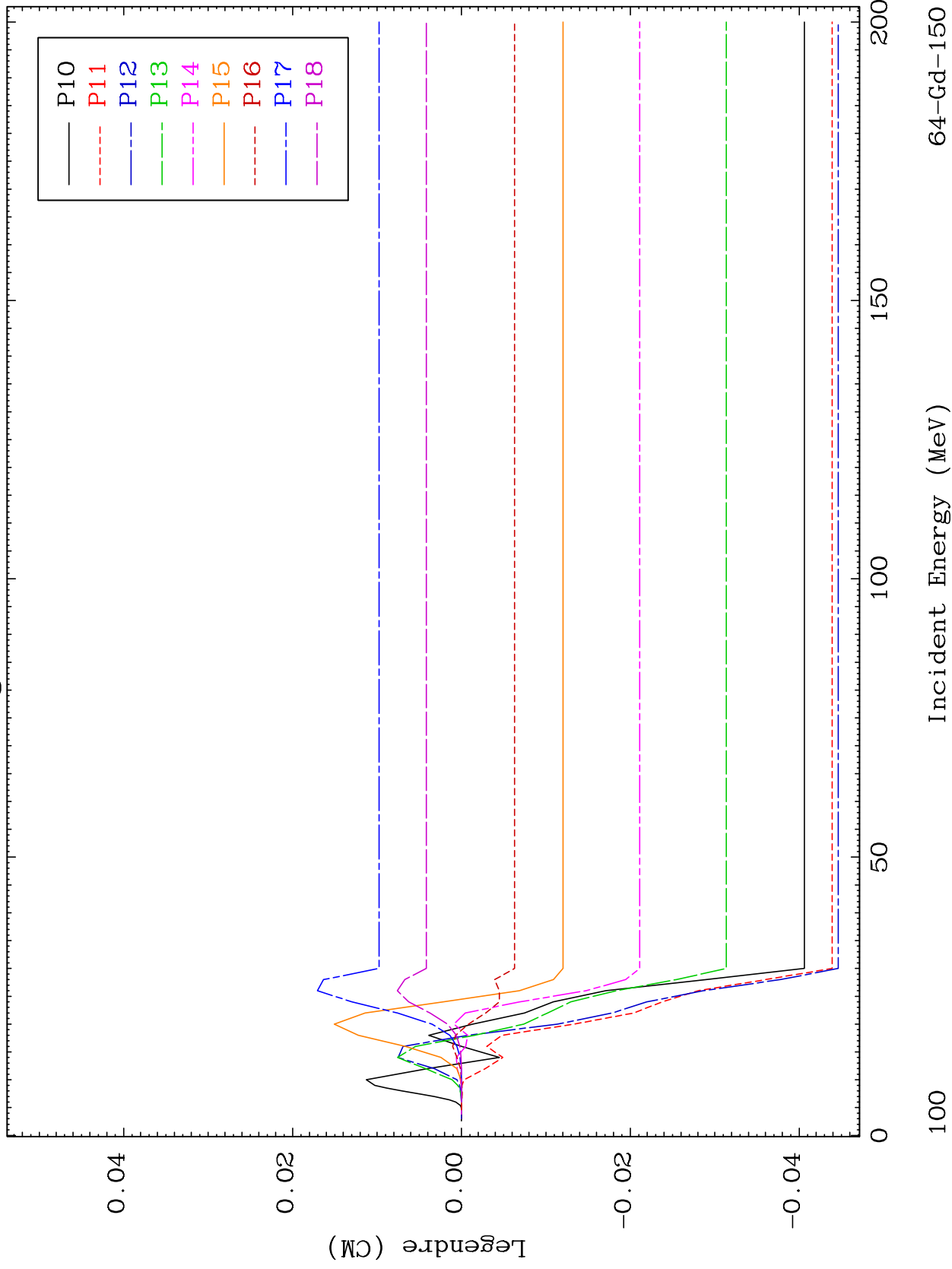




MAT 6419

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

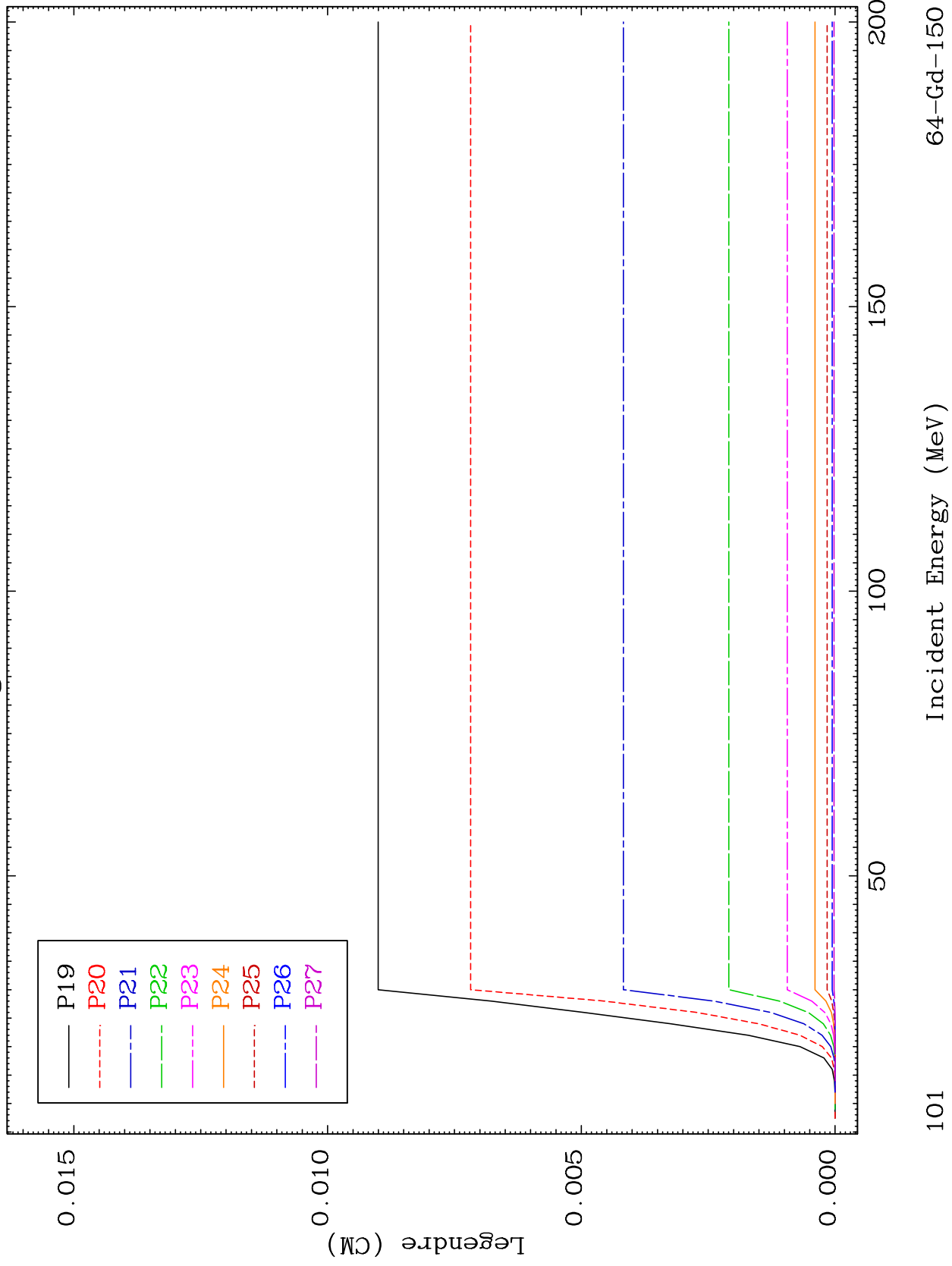
64-Gd-150



MAT 6419

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

64-Gd-150



101

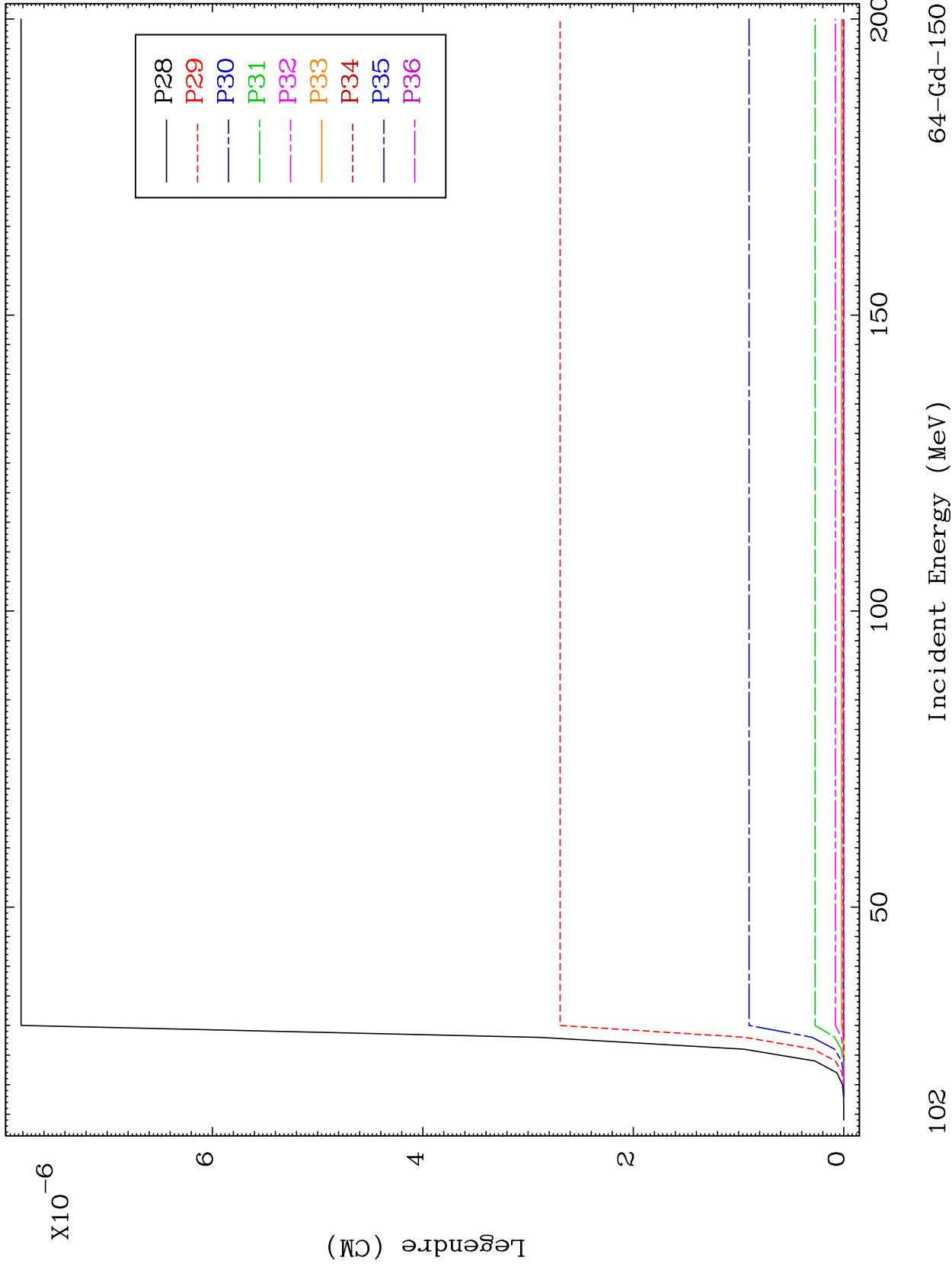
Incident Energy (MeV)

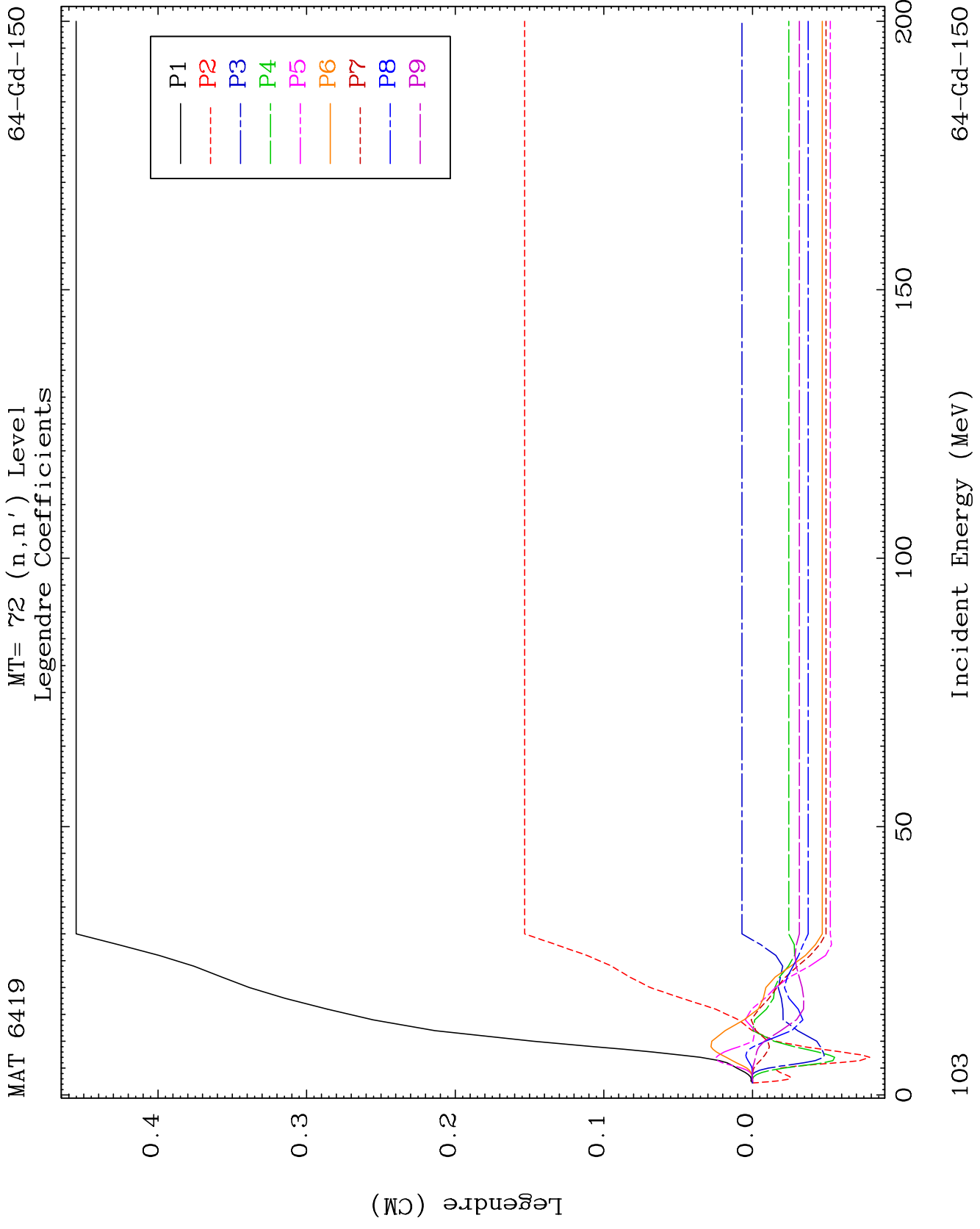
64-Gd-150

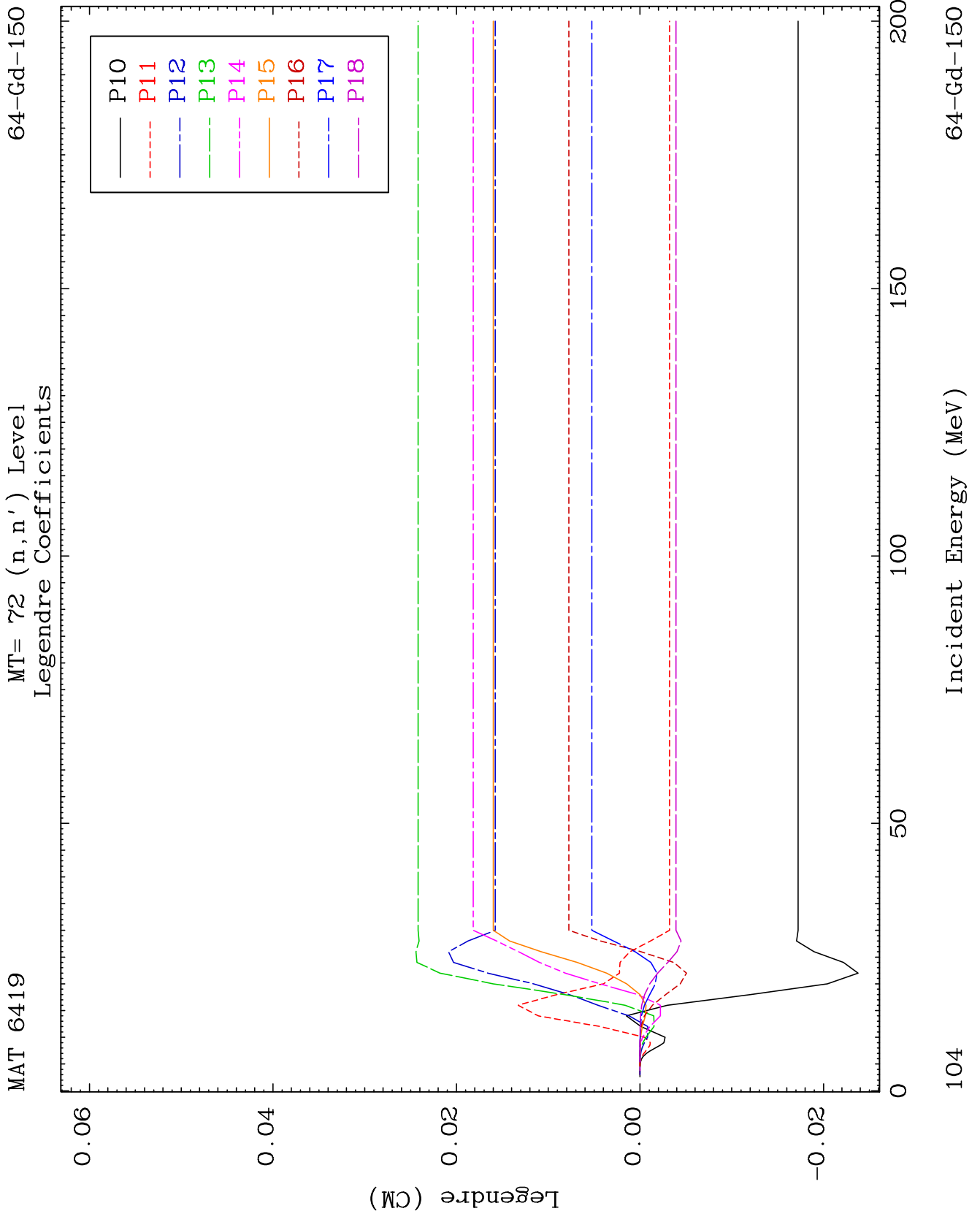
MAT 6419

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

64-Gd-150



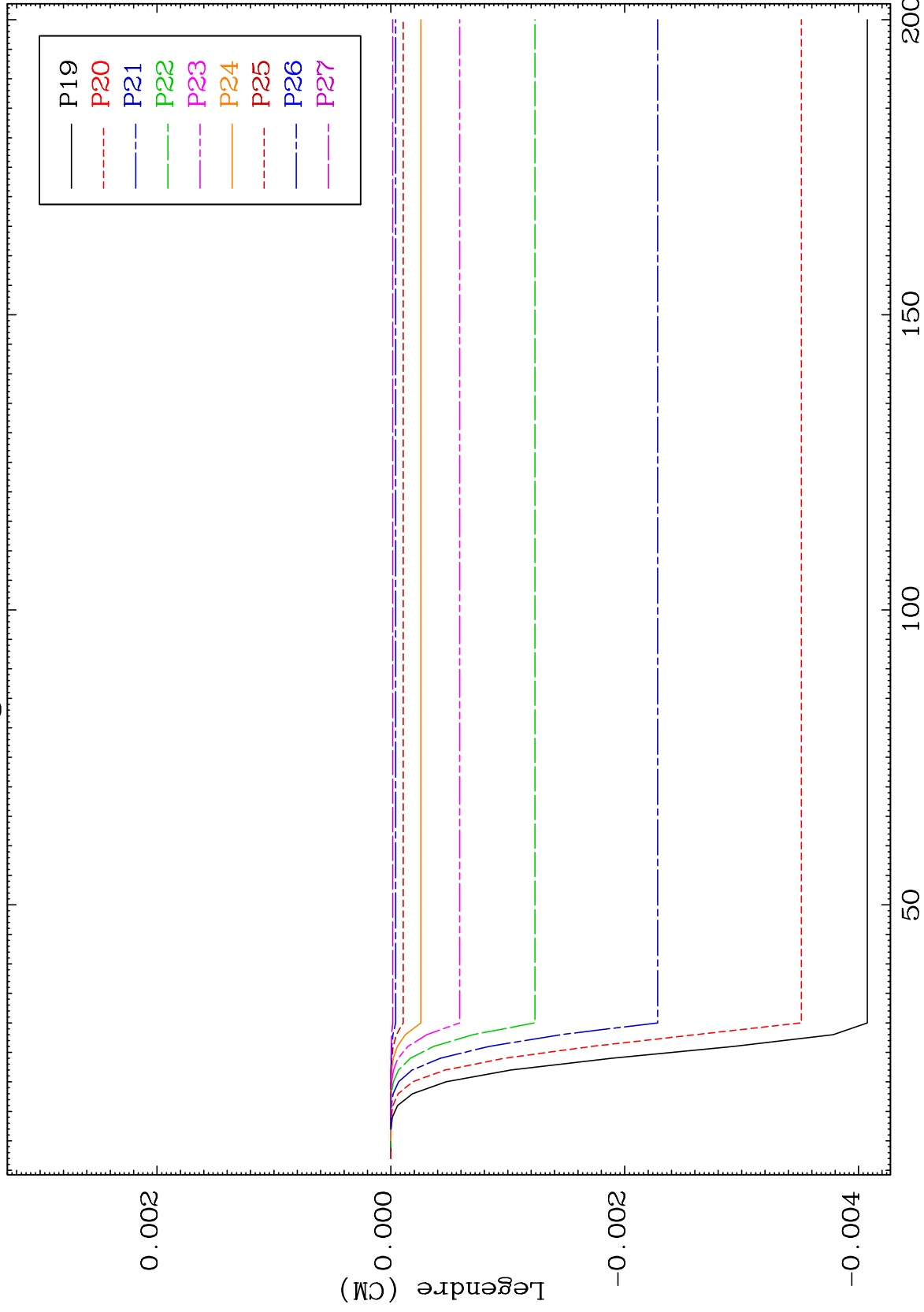




MAT 6419

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

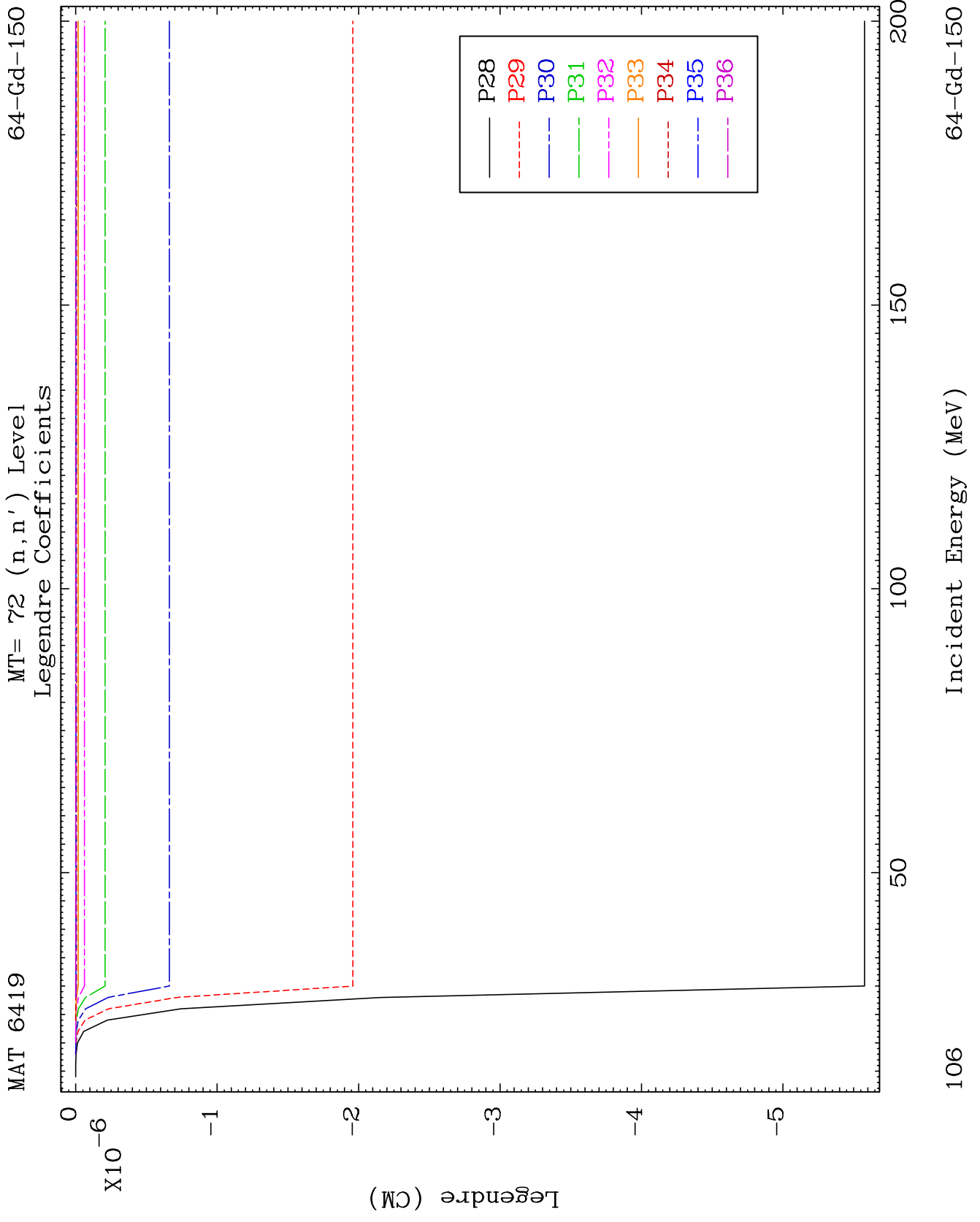
64-Gd-150

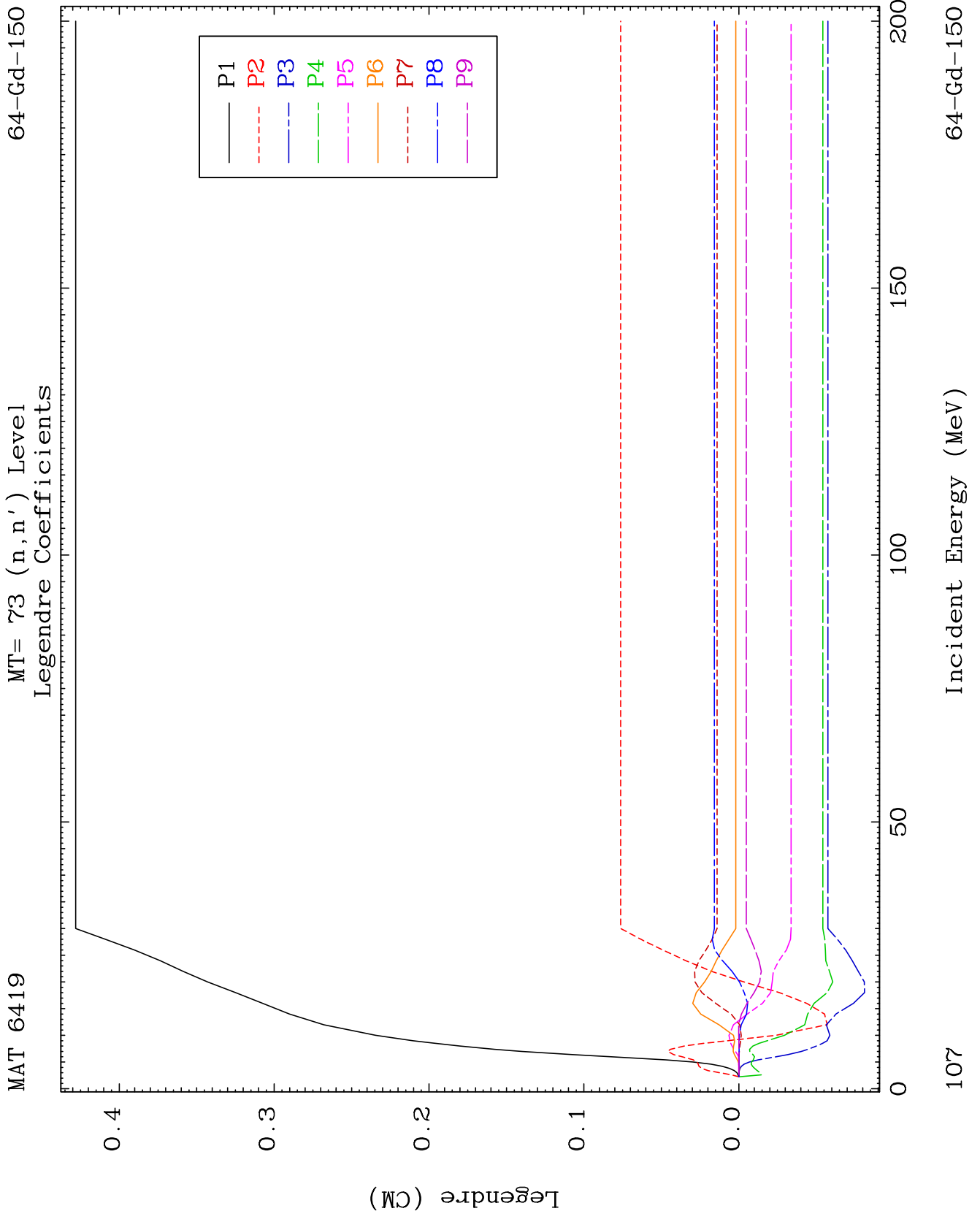


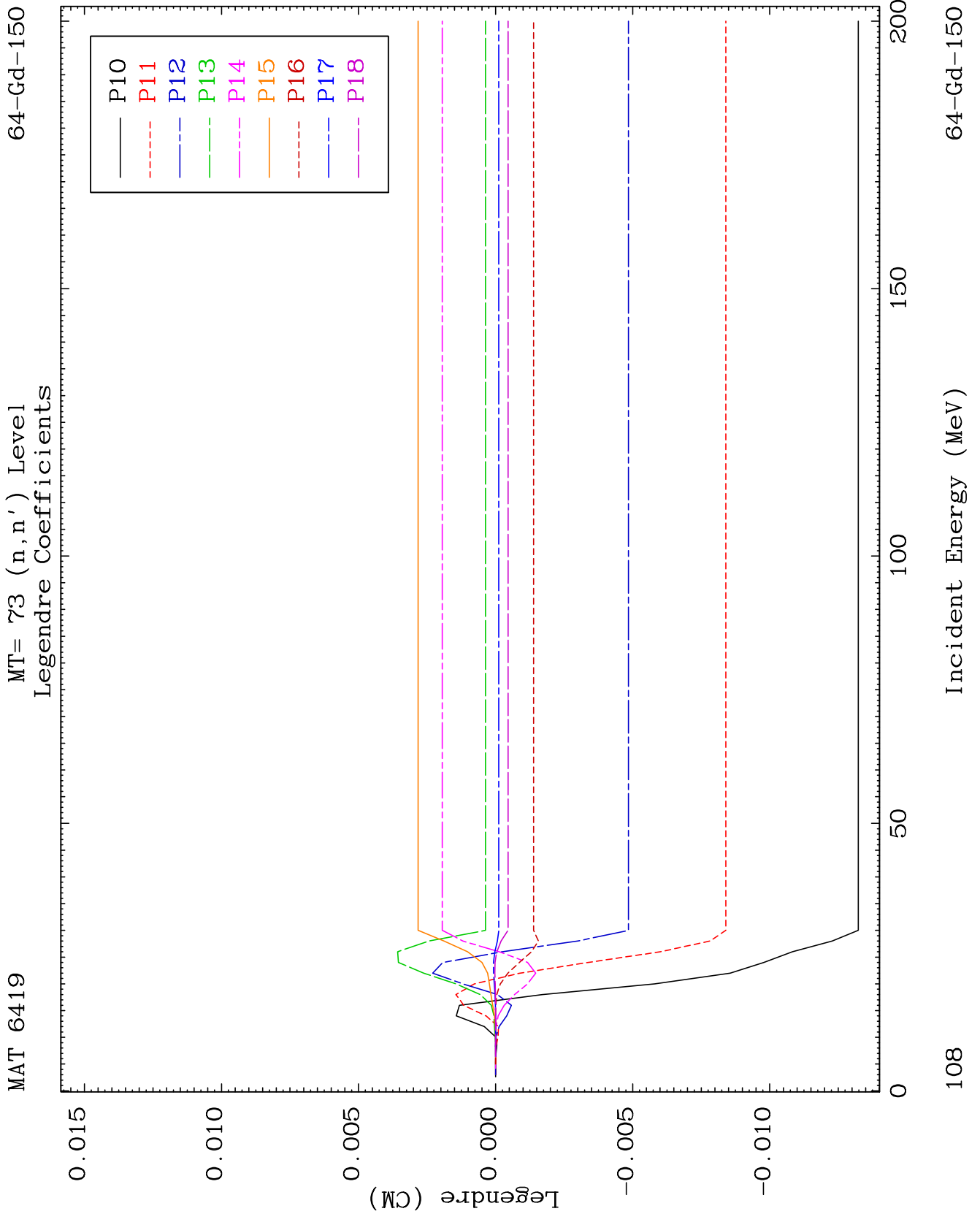
105

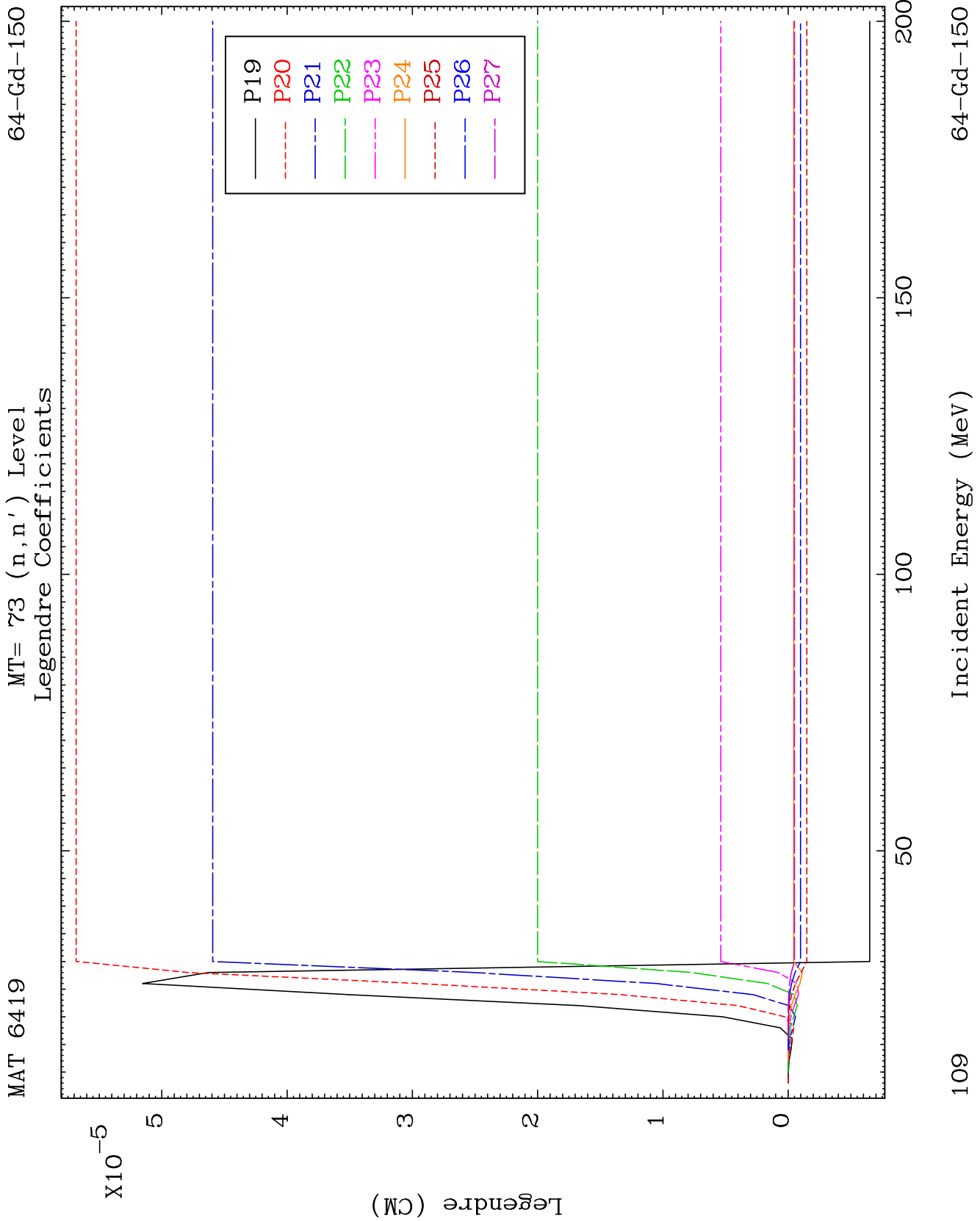
Incident Energy (MeV)

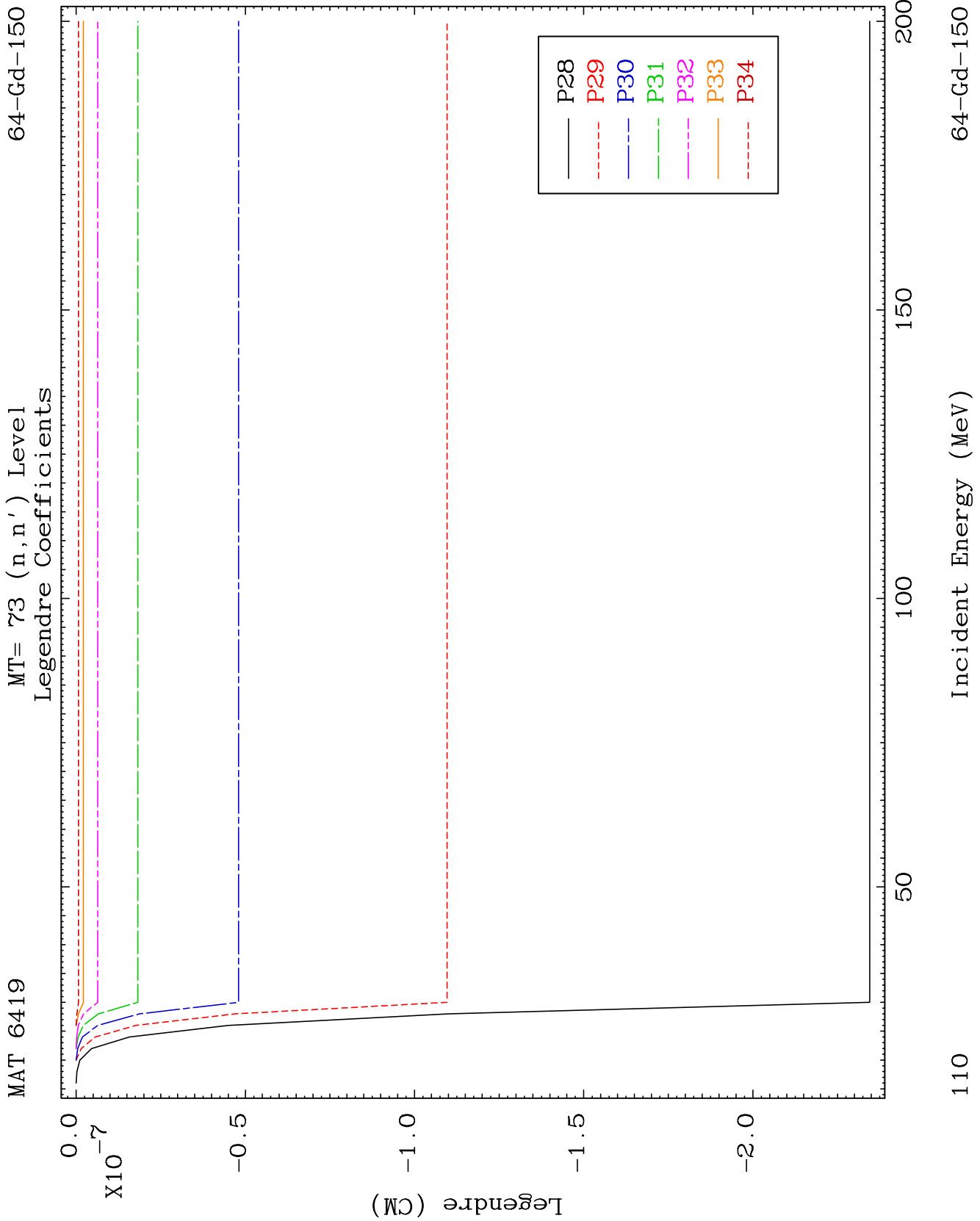
64-Gd-150







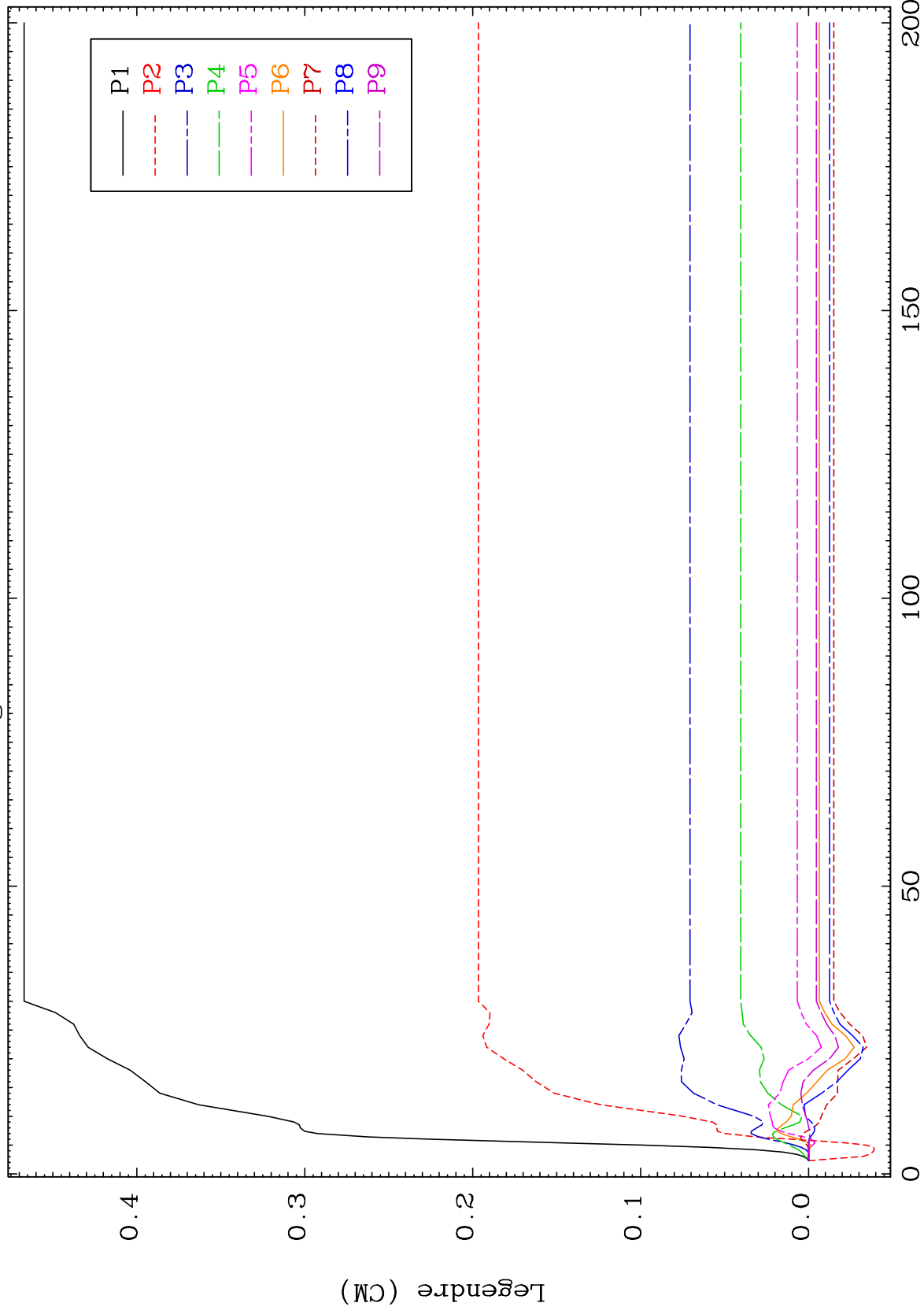




MAT 6419

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

64-Gd-150



111

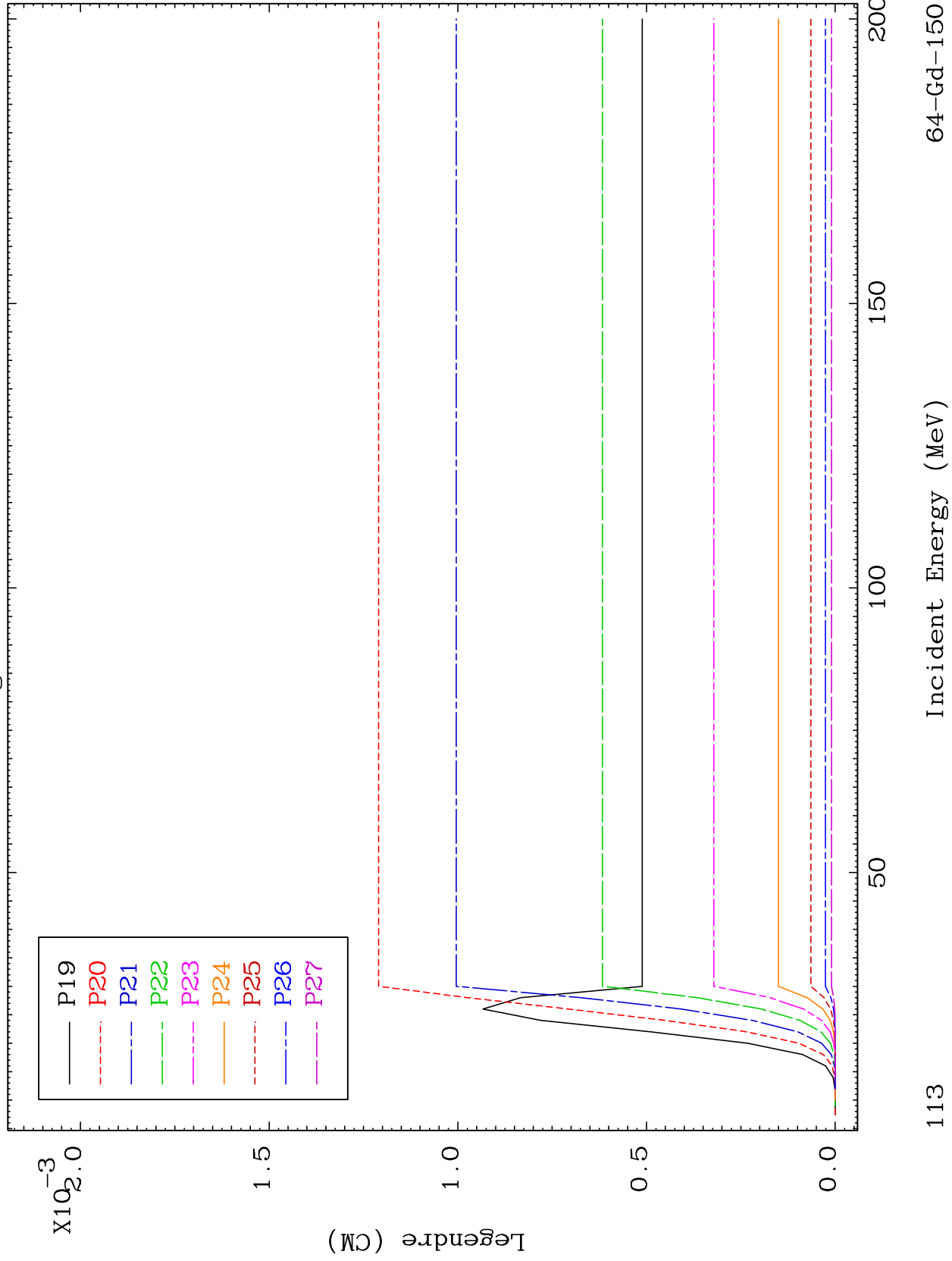
Incident Energy (MeV)

64-Gd-150

MAT 6419

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

64-Gd-150



113

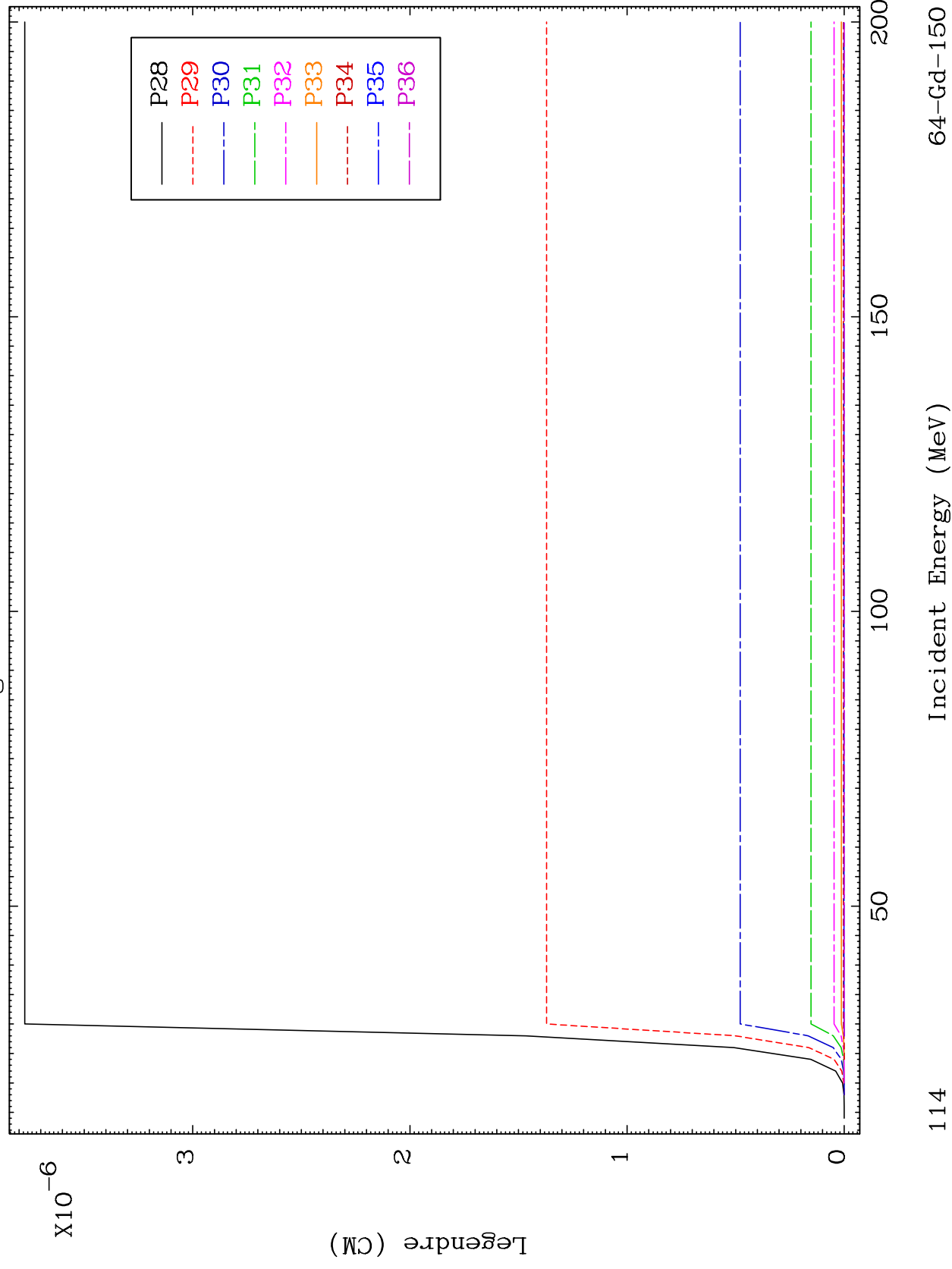
Incident Energy (MeV)

64-Gd-150

MAT 6419

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

64-Gd-150



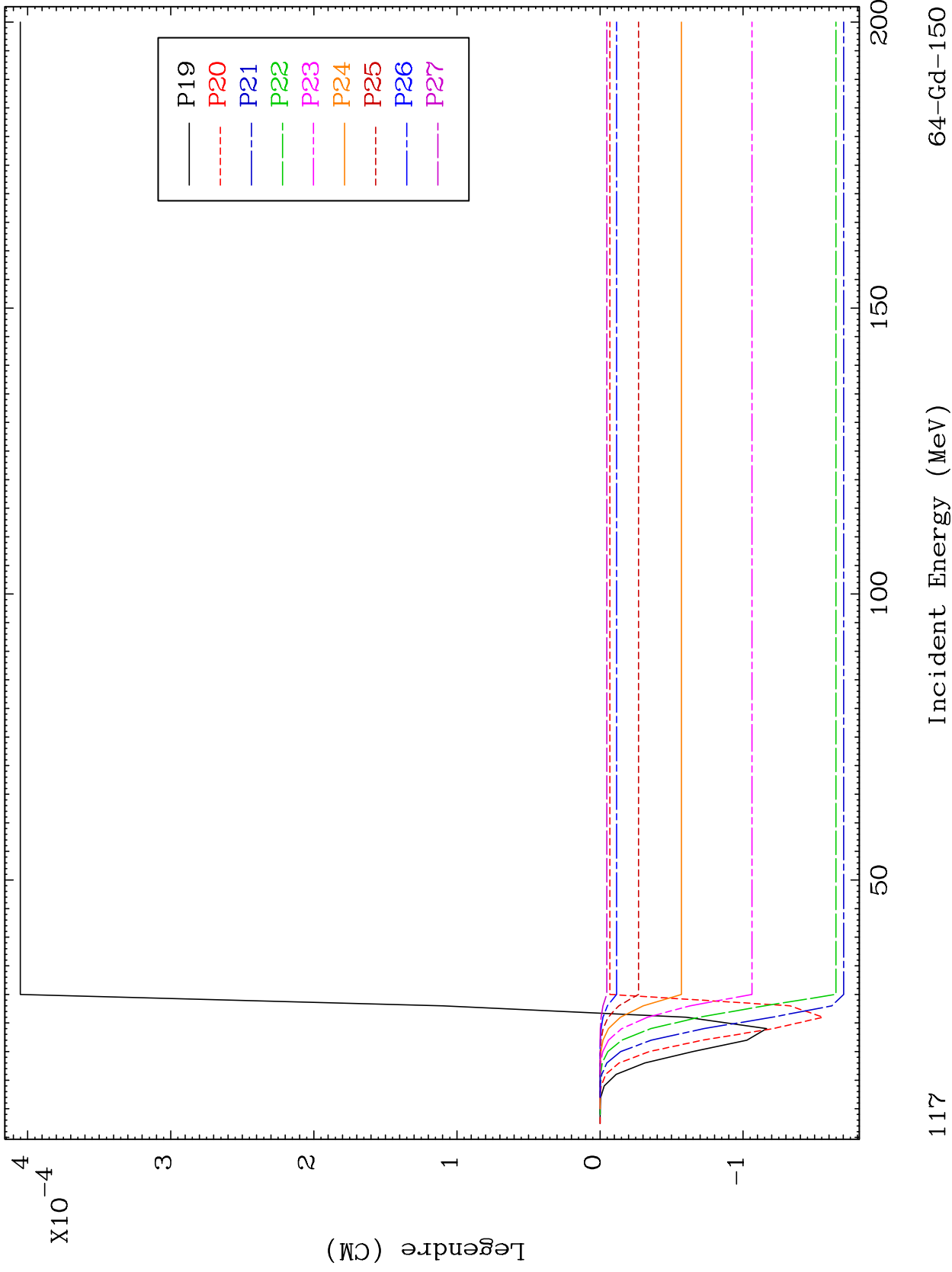
114

64-Gd-150

MAT 6419

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

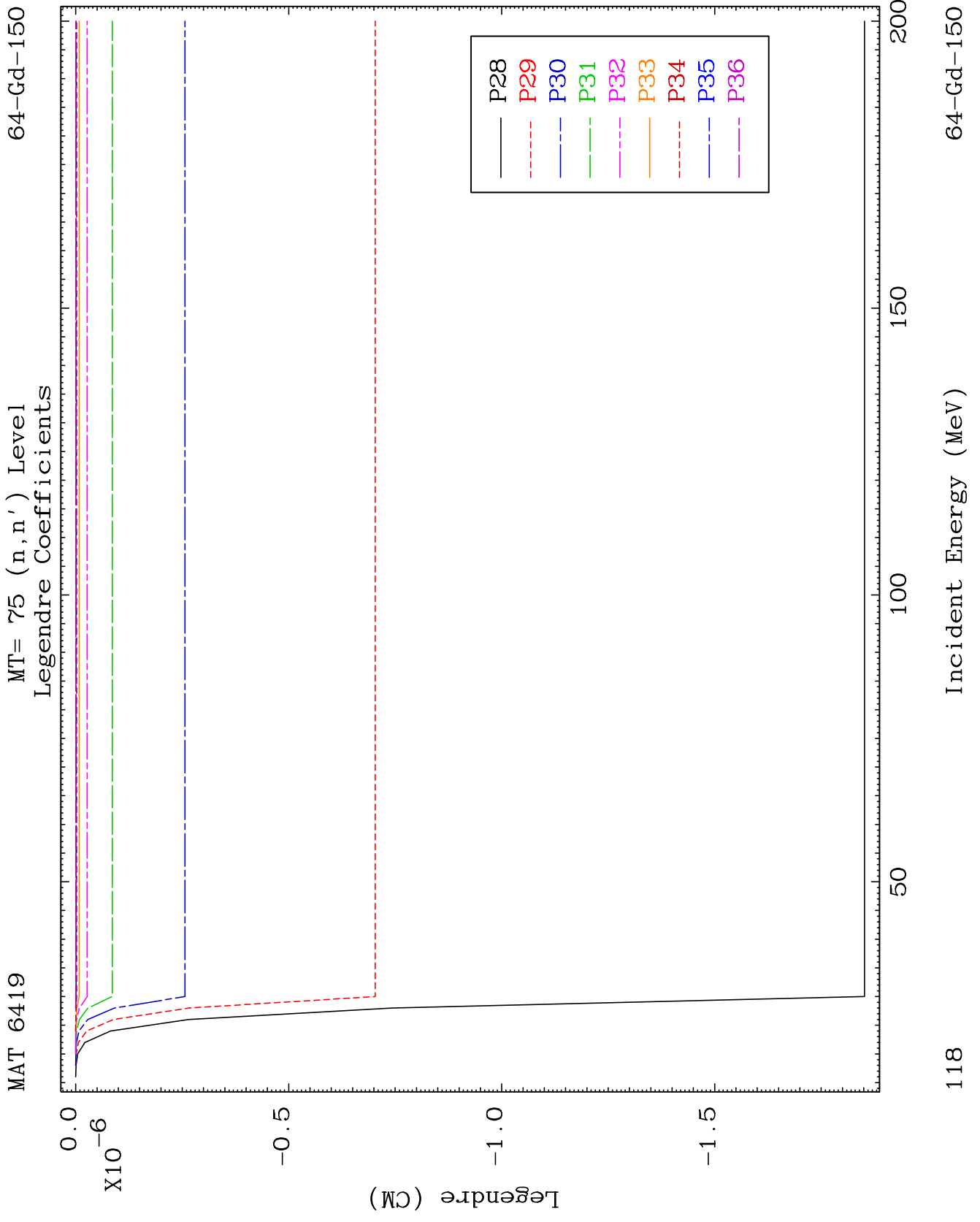
64-Gd-150

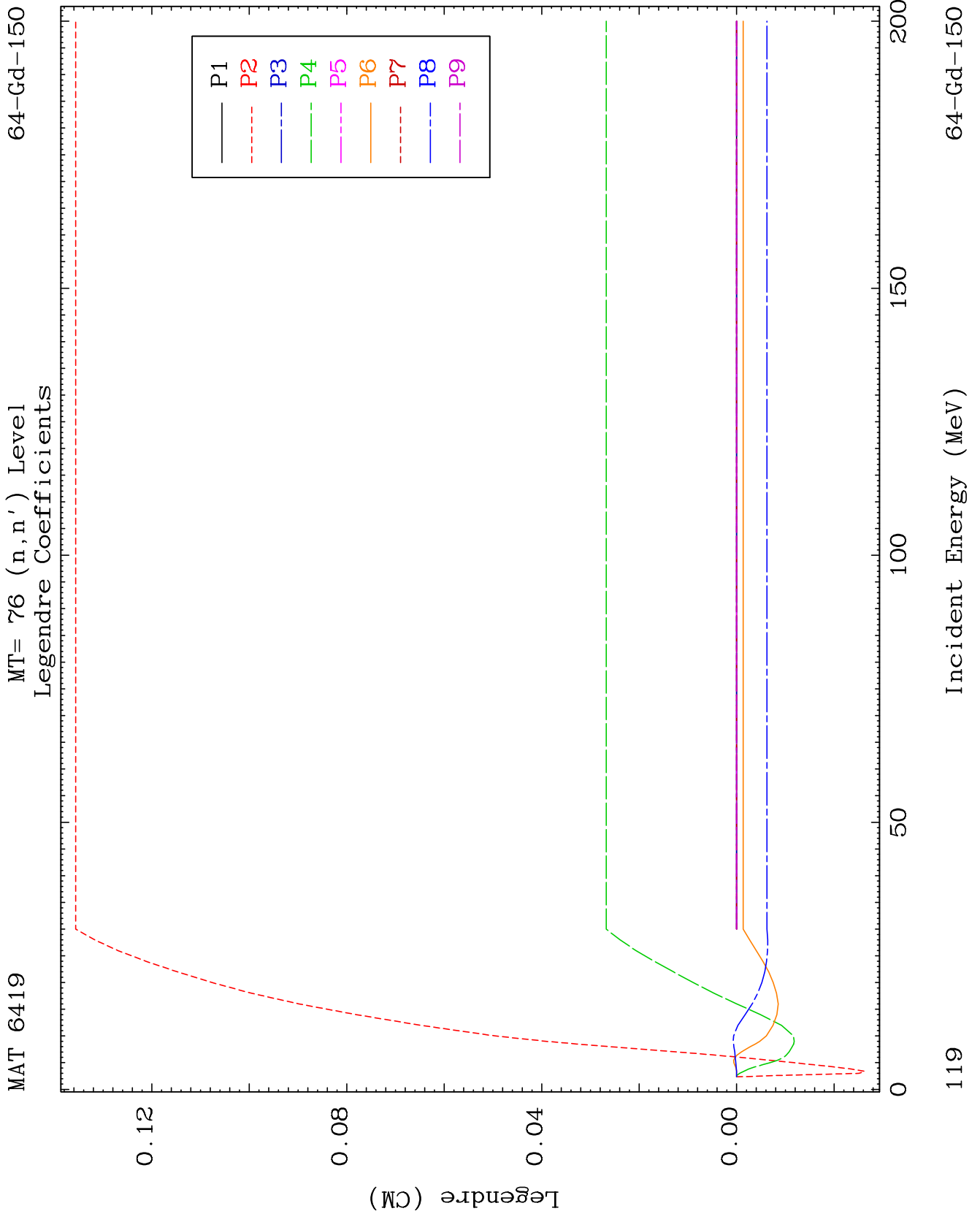


117

Incident Energy (MeV)

64-Gd-150

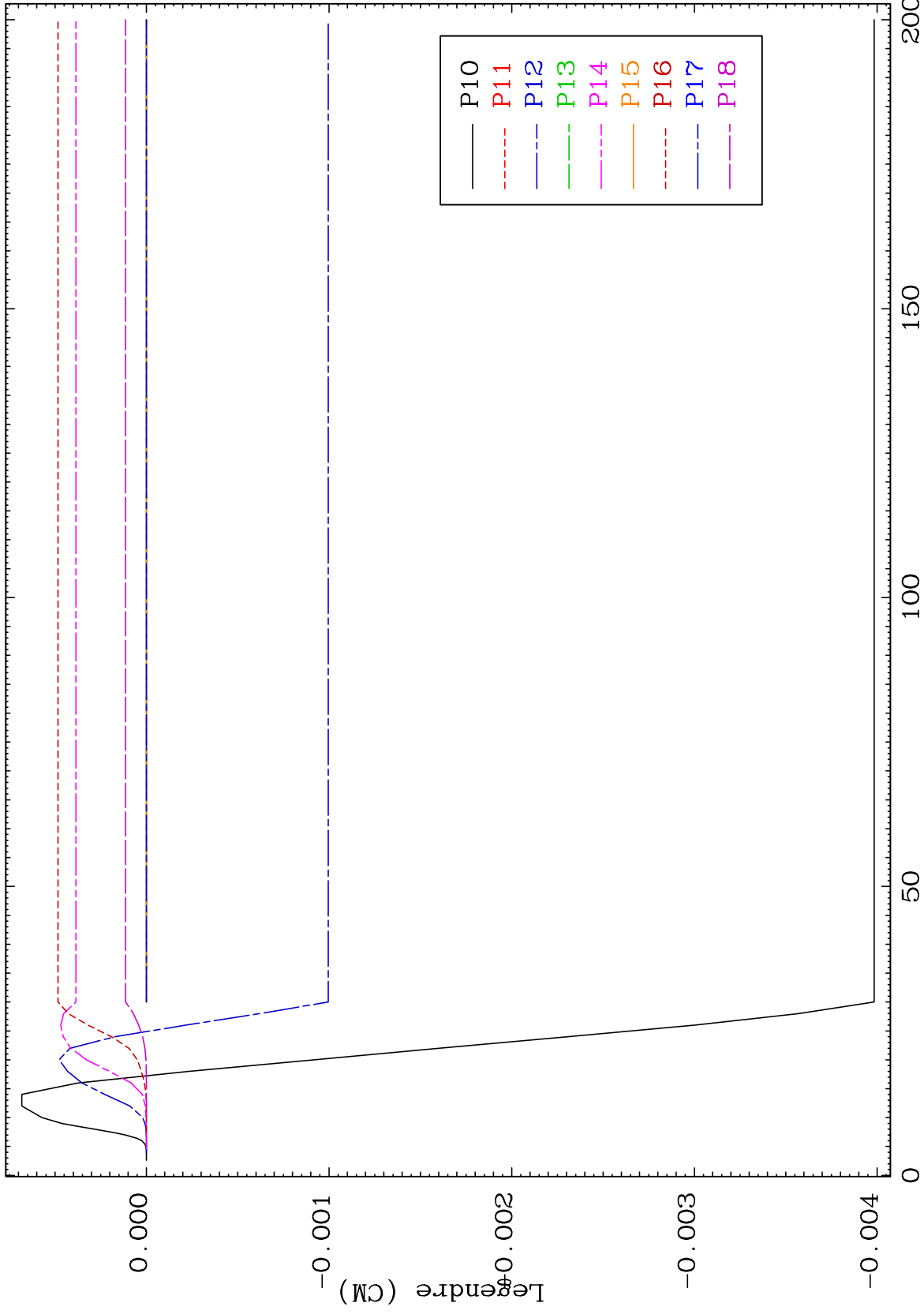




MAT 6419

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

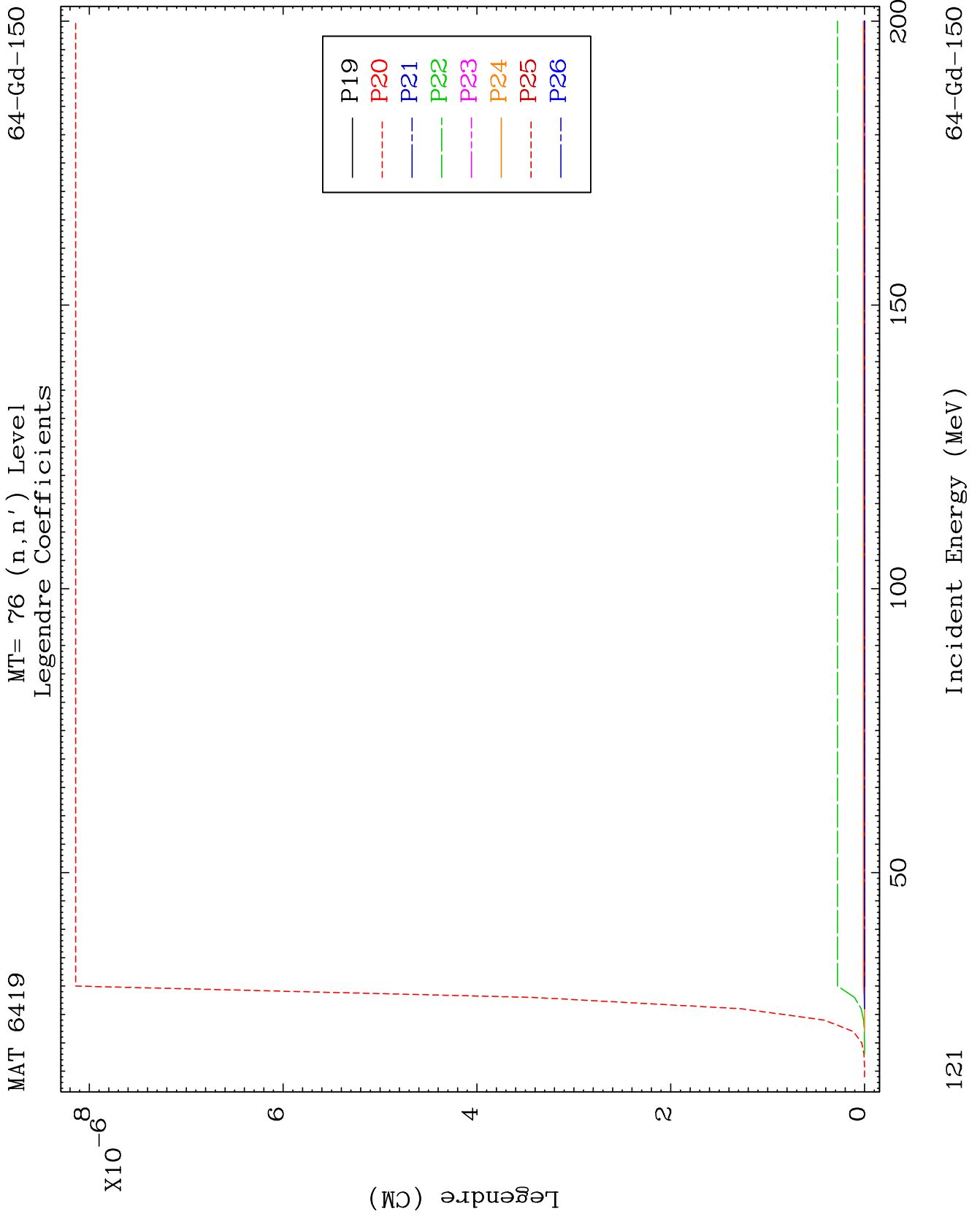
64-Gd-150



120

Incident Energy (MeV)

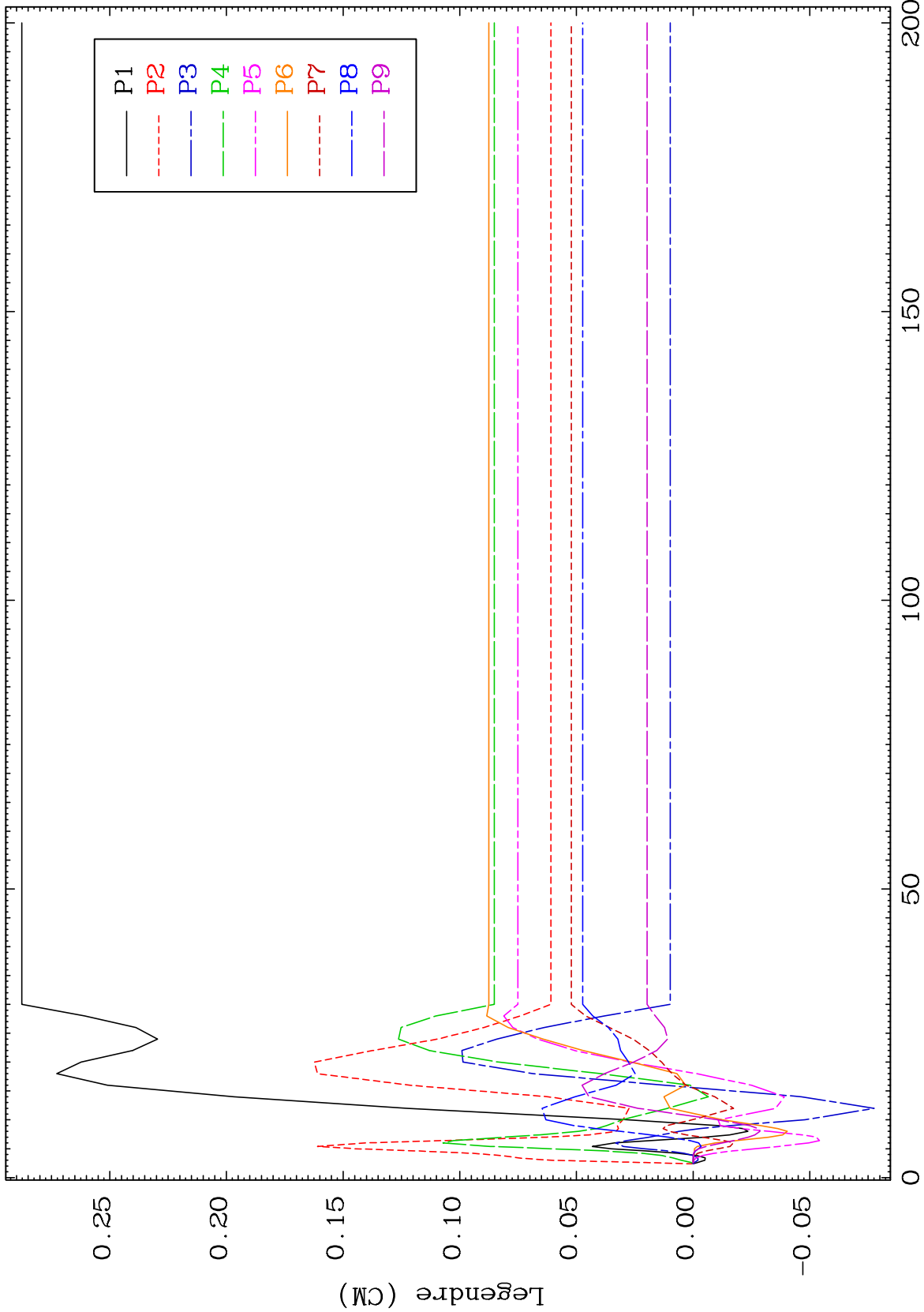
64-Gd-150



MAT 6419

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

64-Gd-150



122

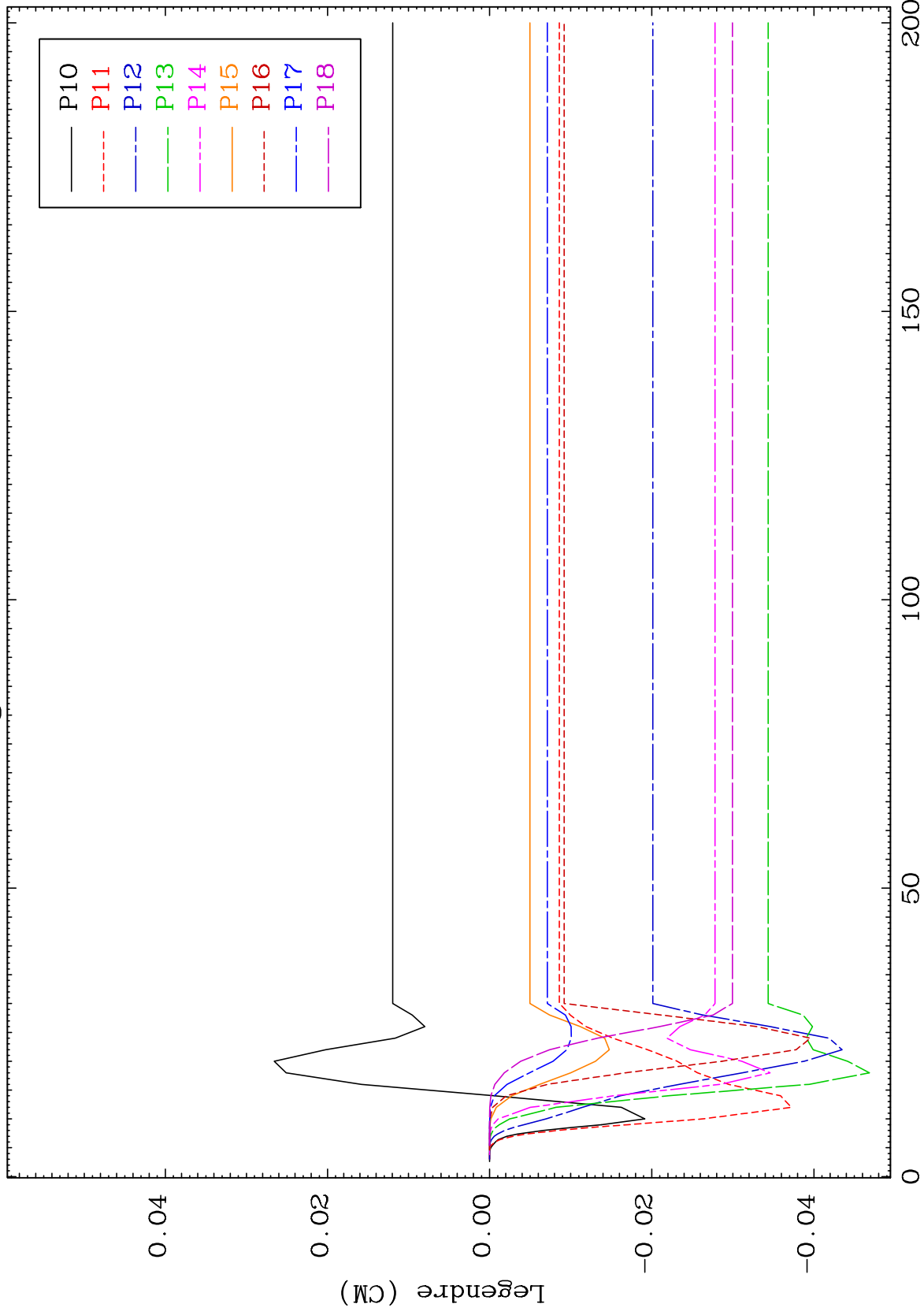
Incident Energy (MeV)

64-Gd-150

MAT 6419

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

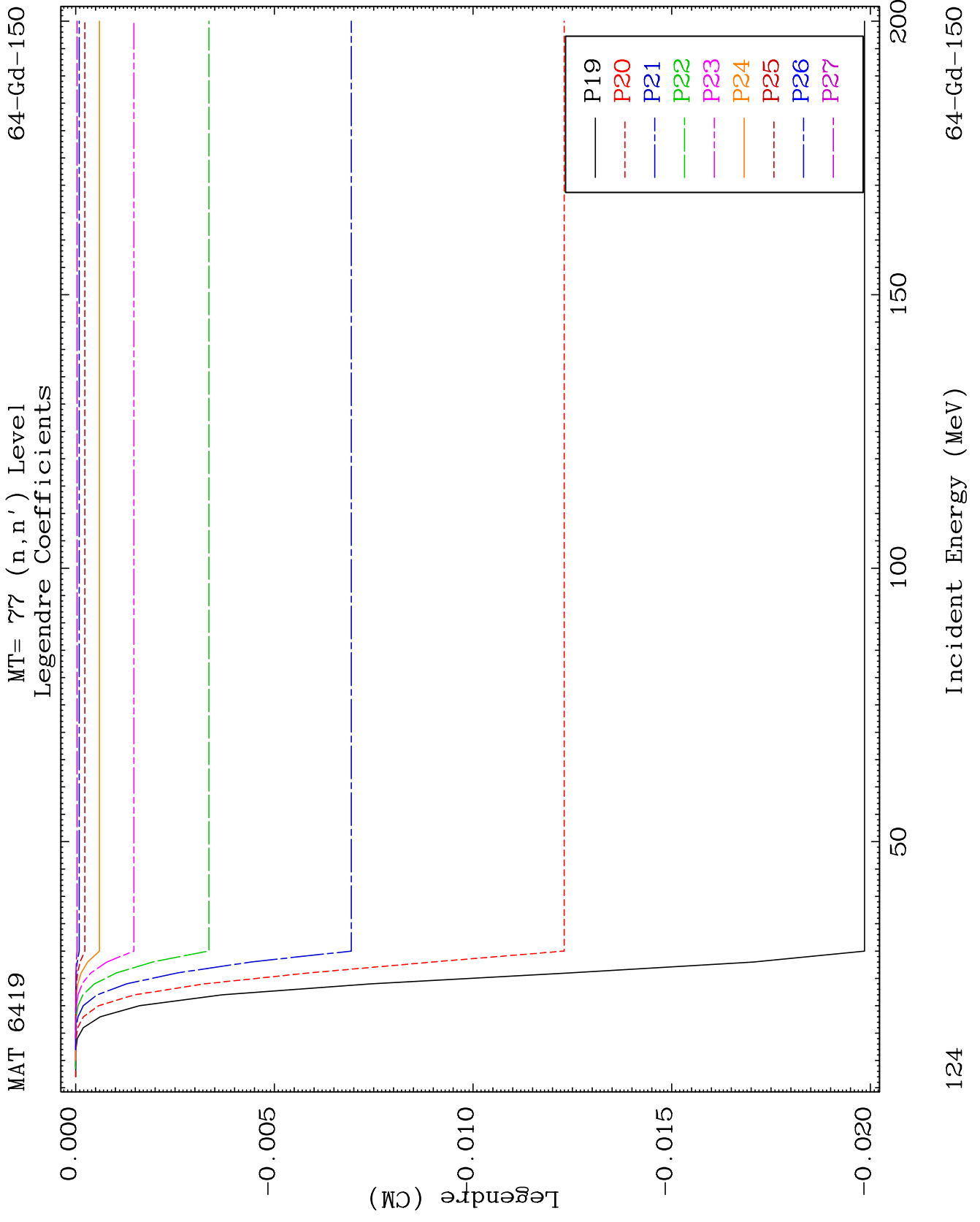
64-Gd-150

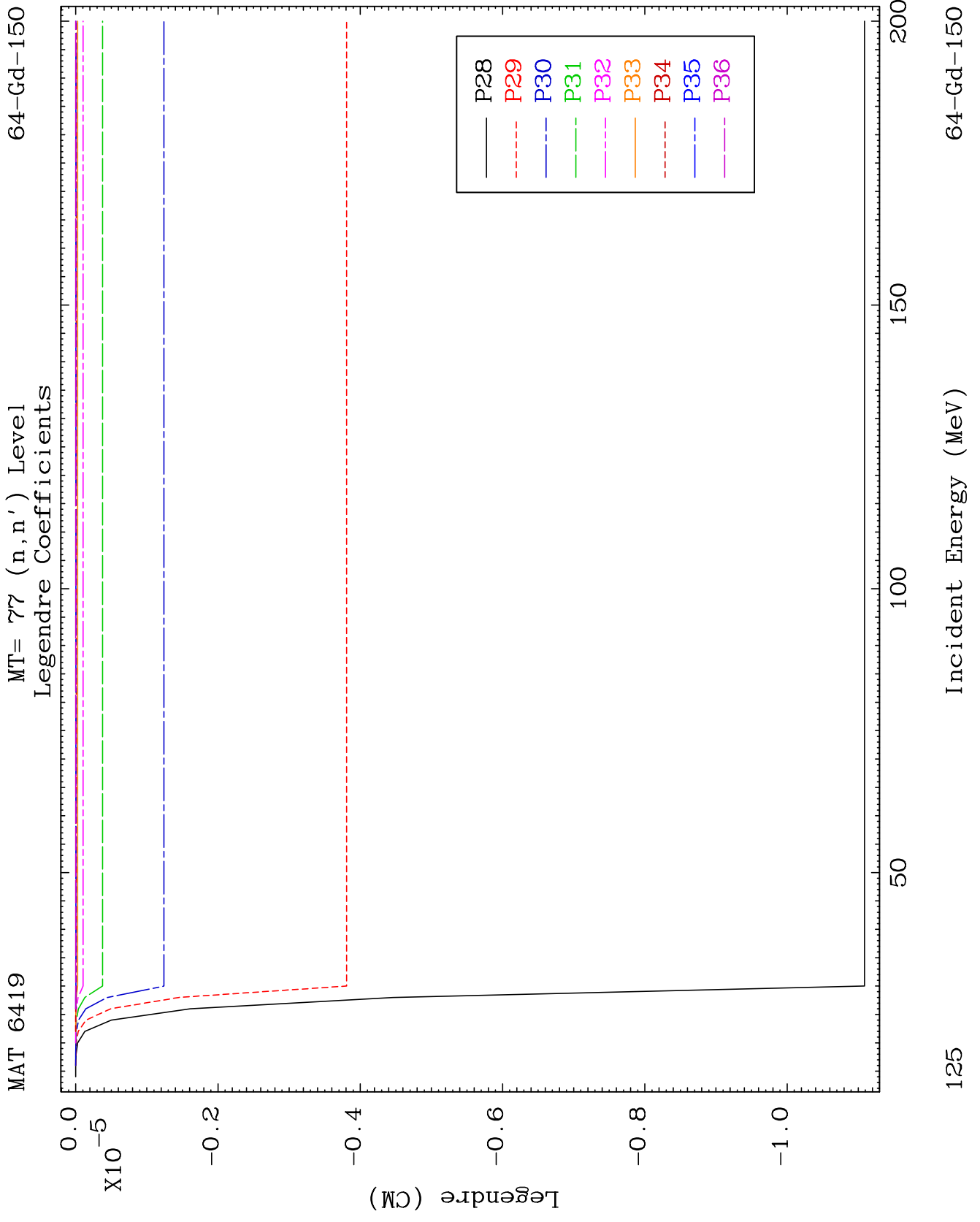


123

Incident Energy (MeV)

64-Gd-150

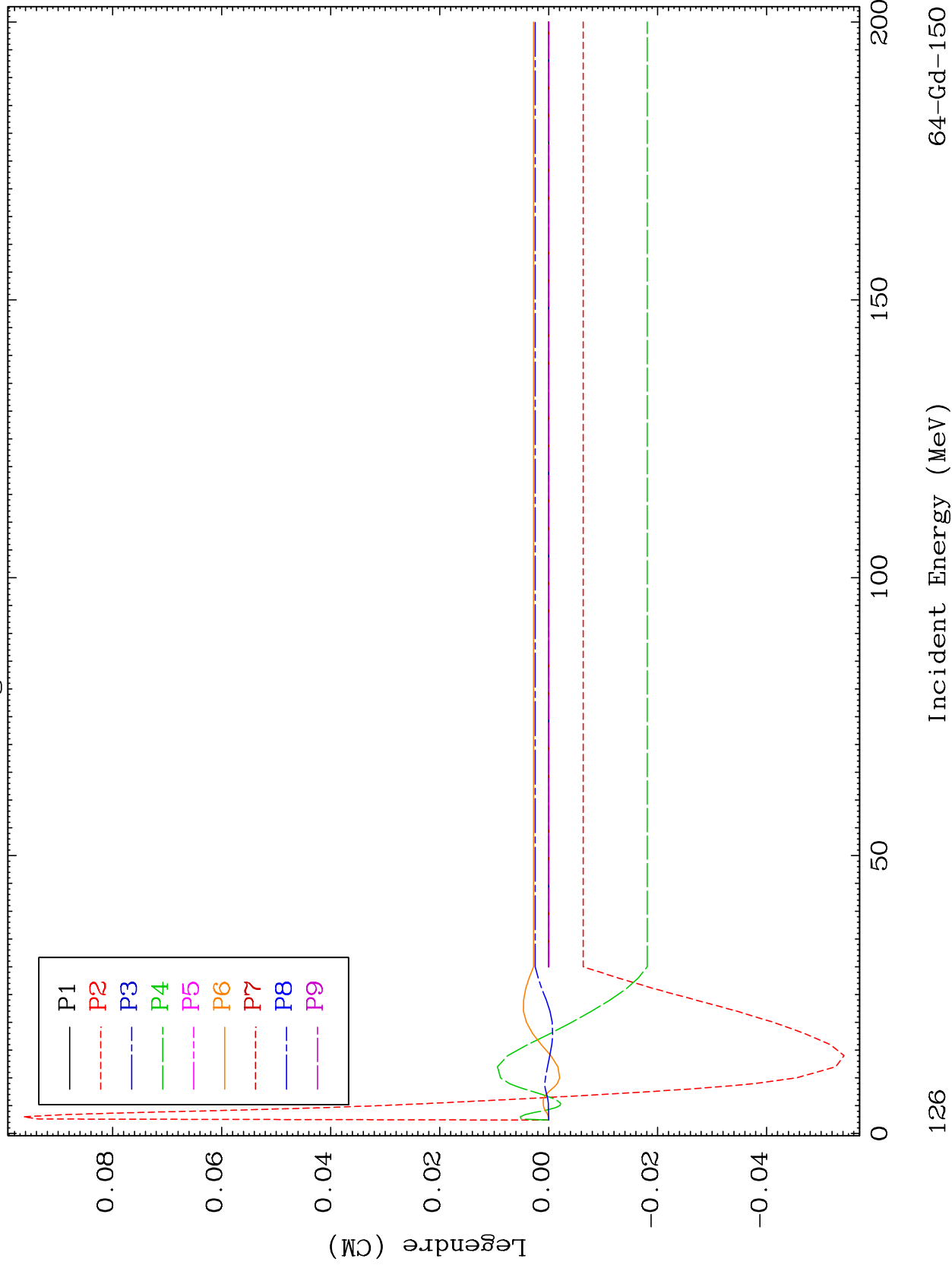




MAT 6419

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

64-Gd-150



126

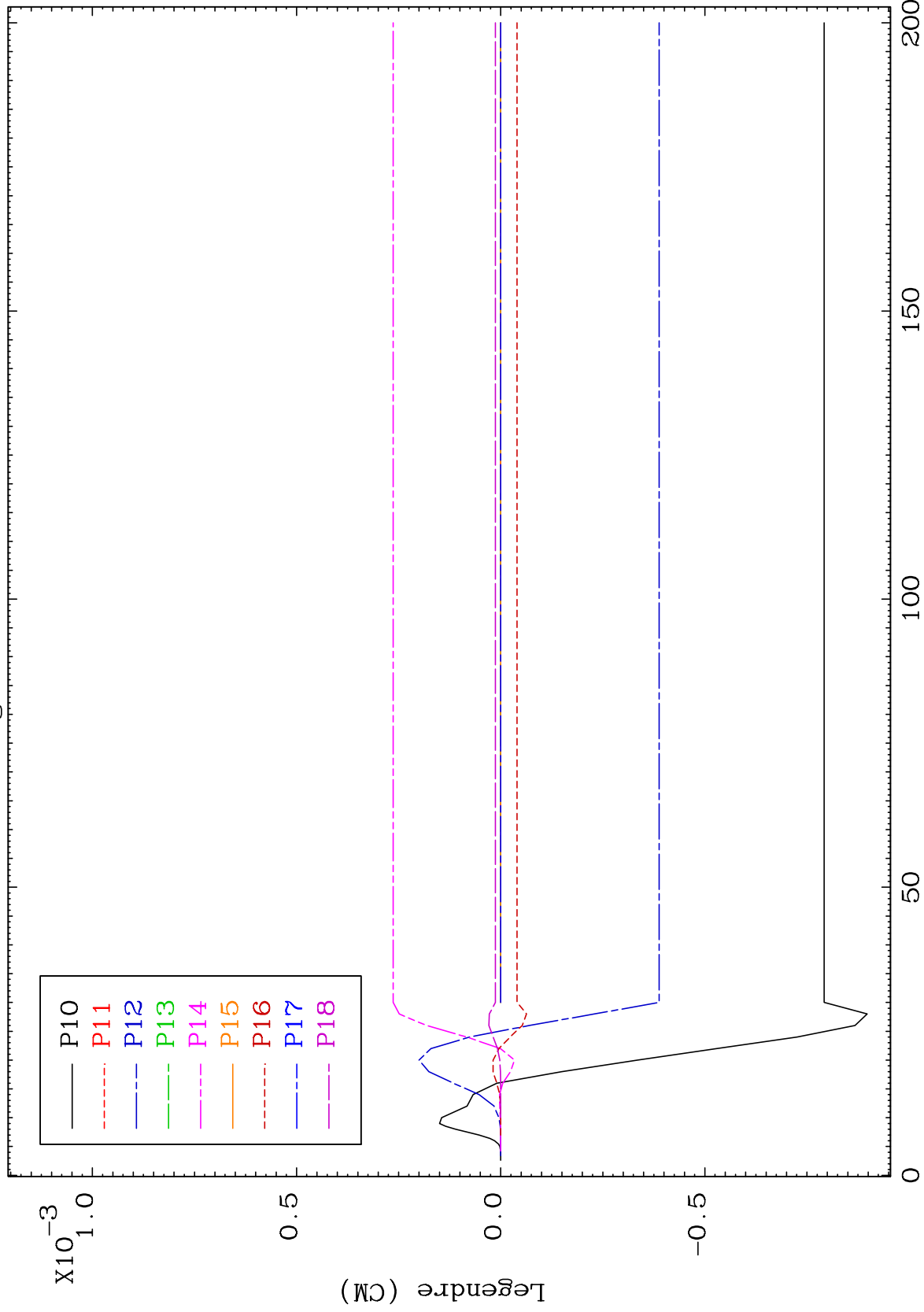
Incident Energy (MeV)

64-Gd-150

MAT 6419

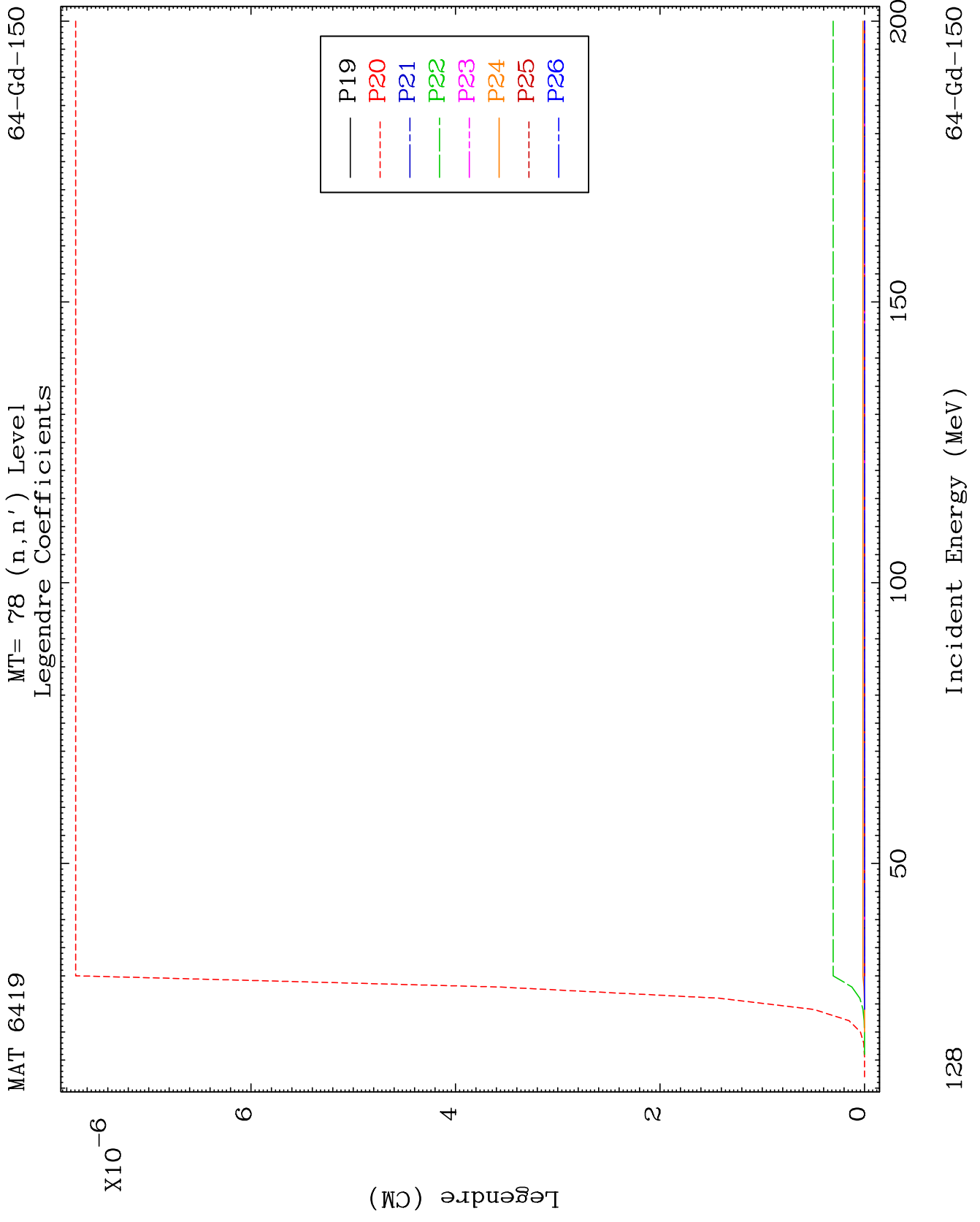
MT= 78 (n,n') Level
Legendre Coefficients

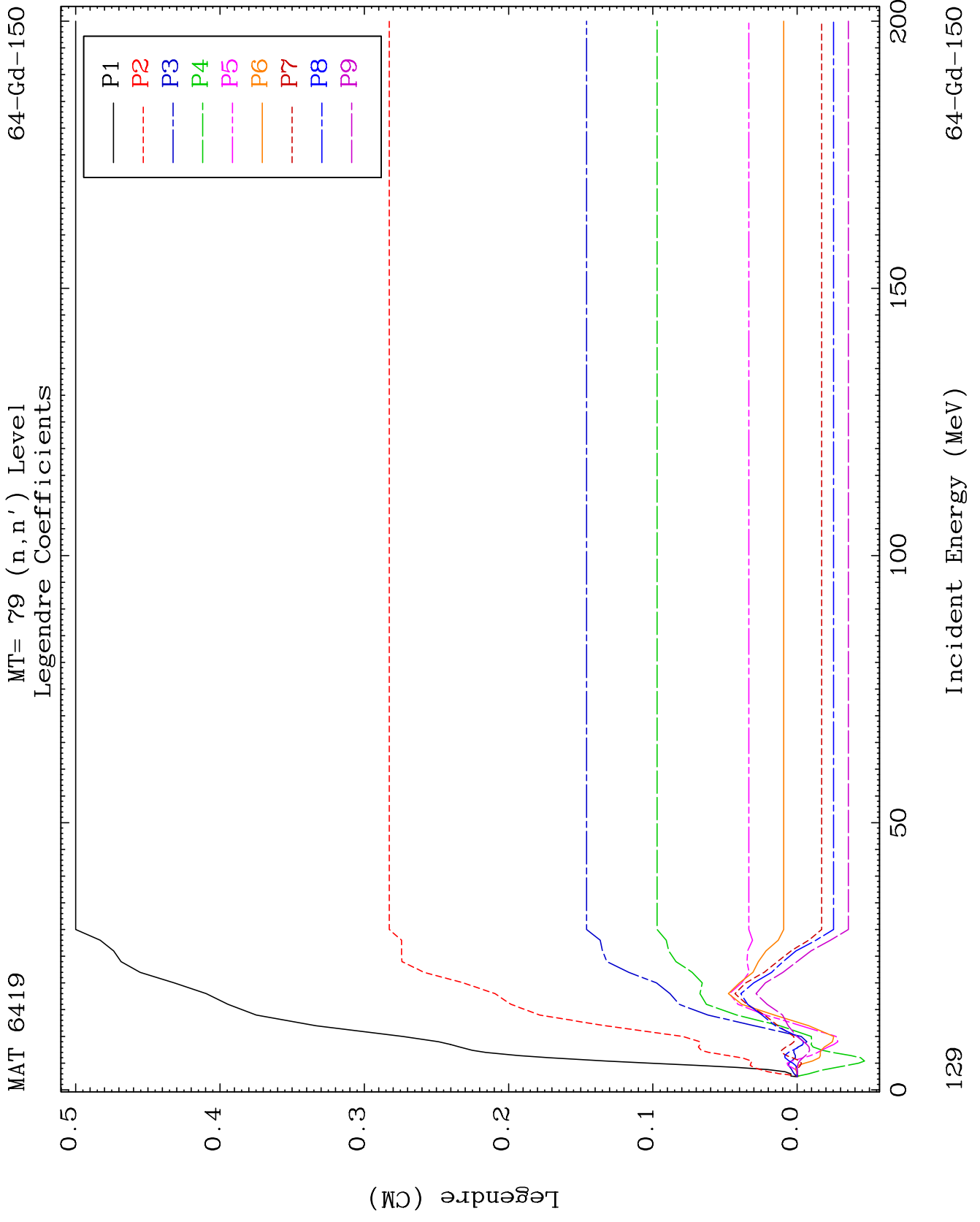
64-Gd-150

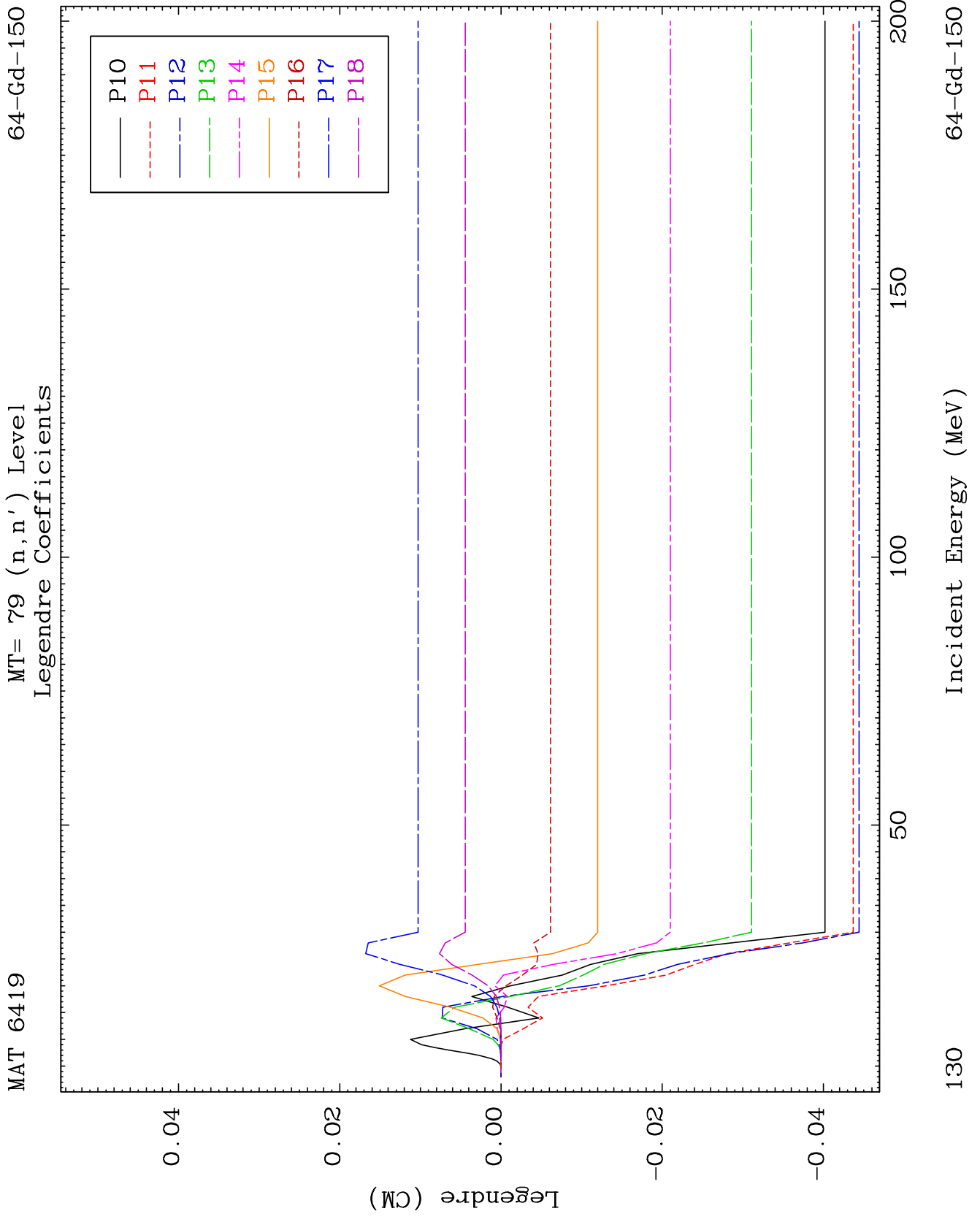


127

64-Gd-150



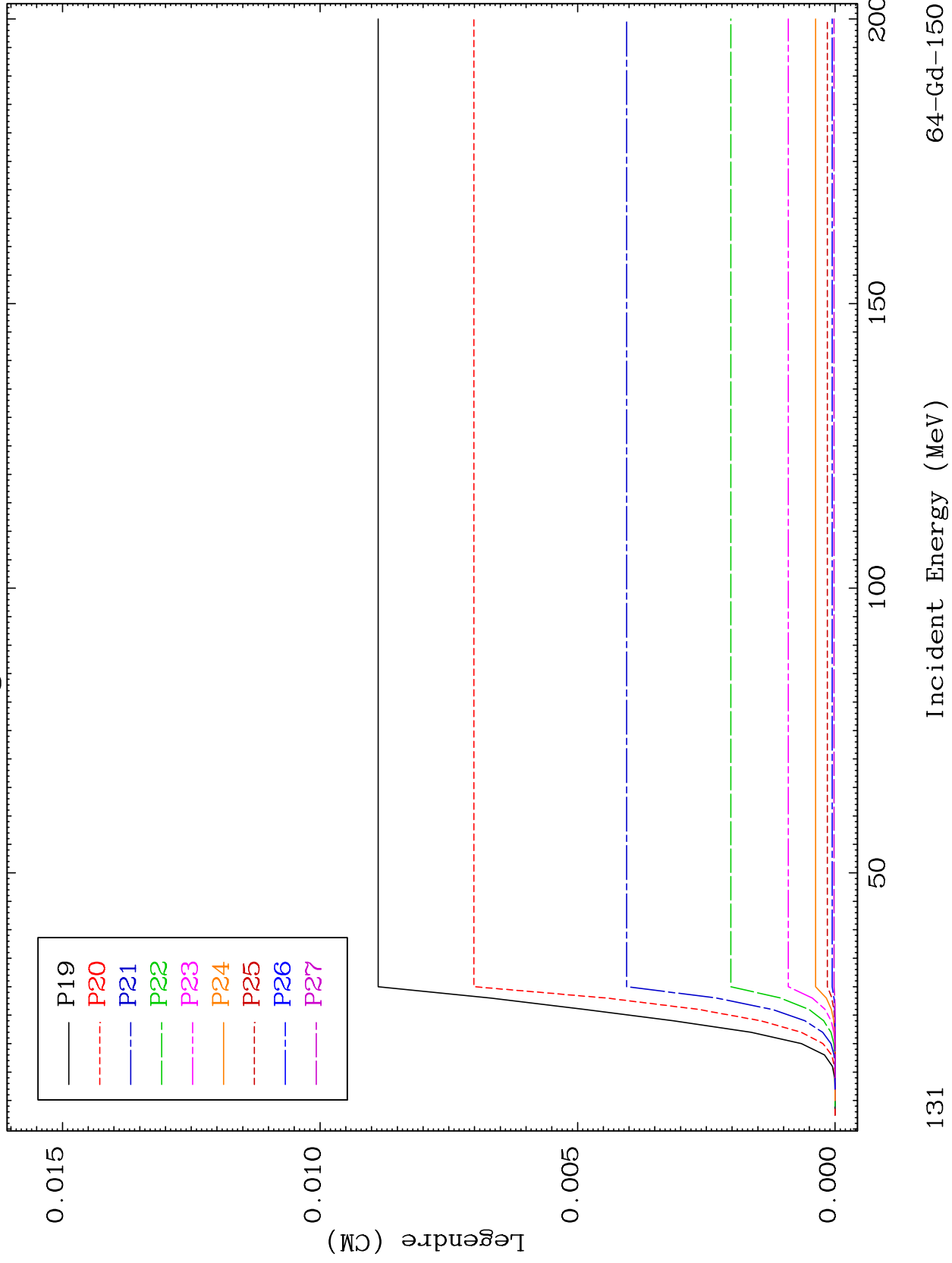




MAT 6419

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

64-Gd-150



131

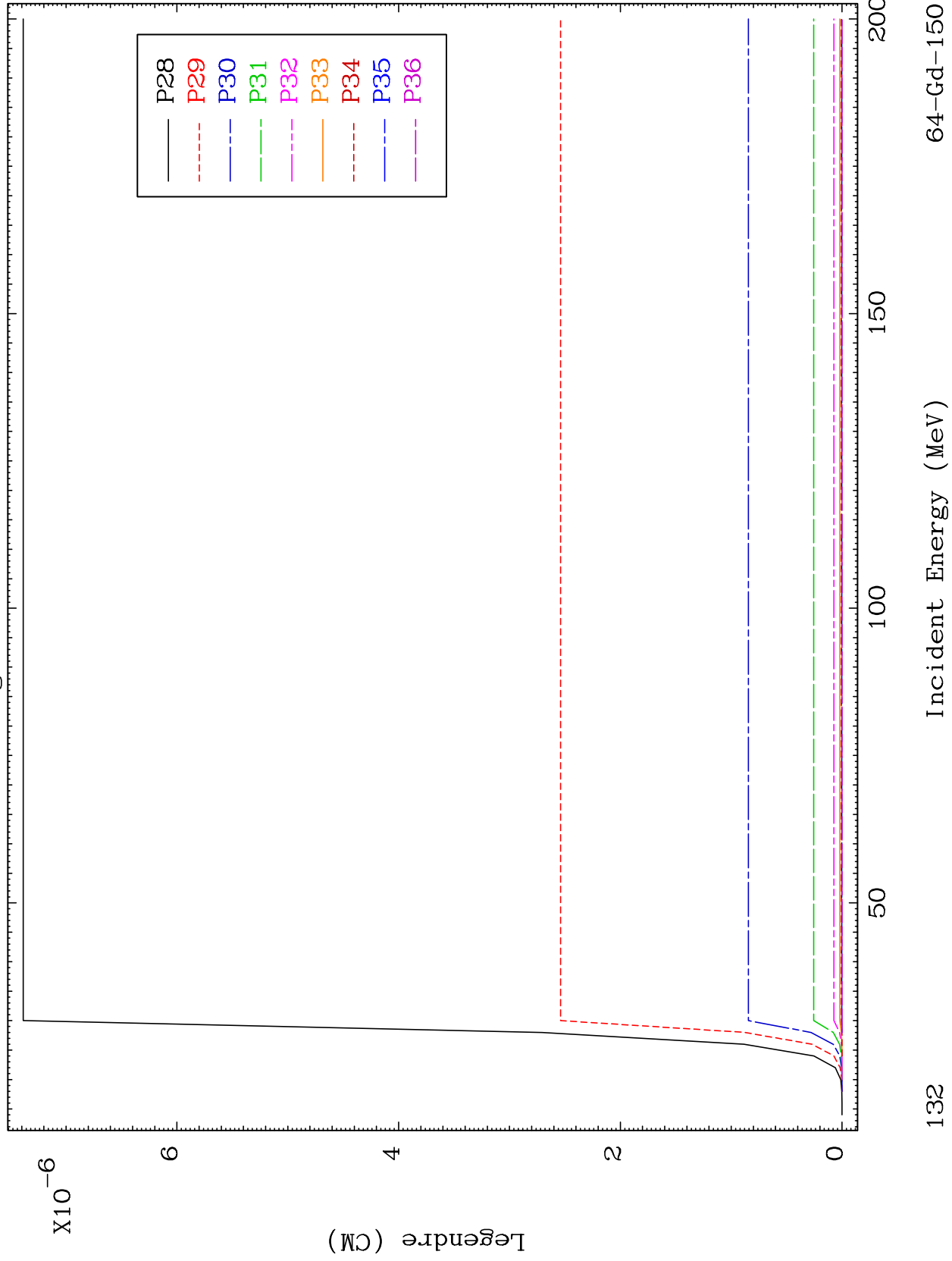
Incident Energy (MeV)

64-Gd-150

MAT 6419

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

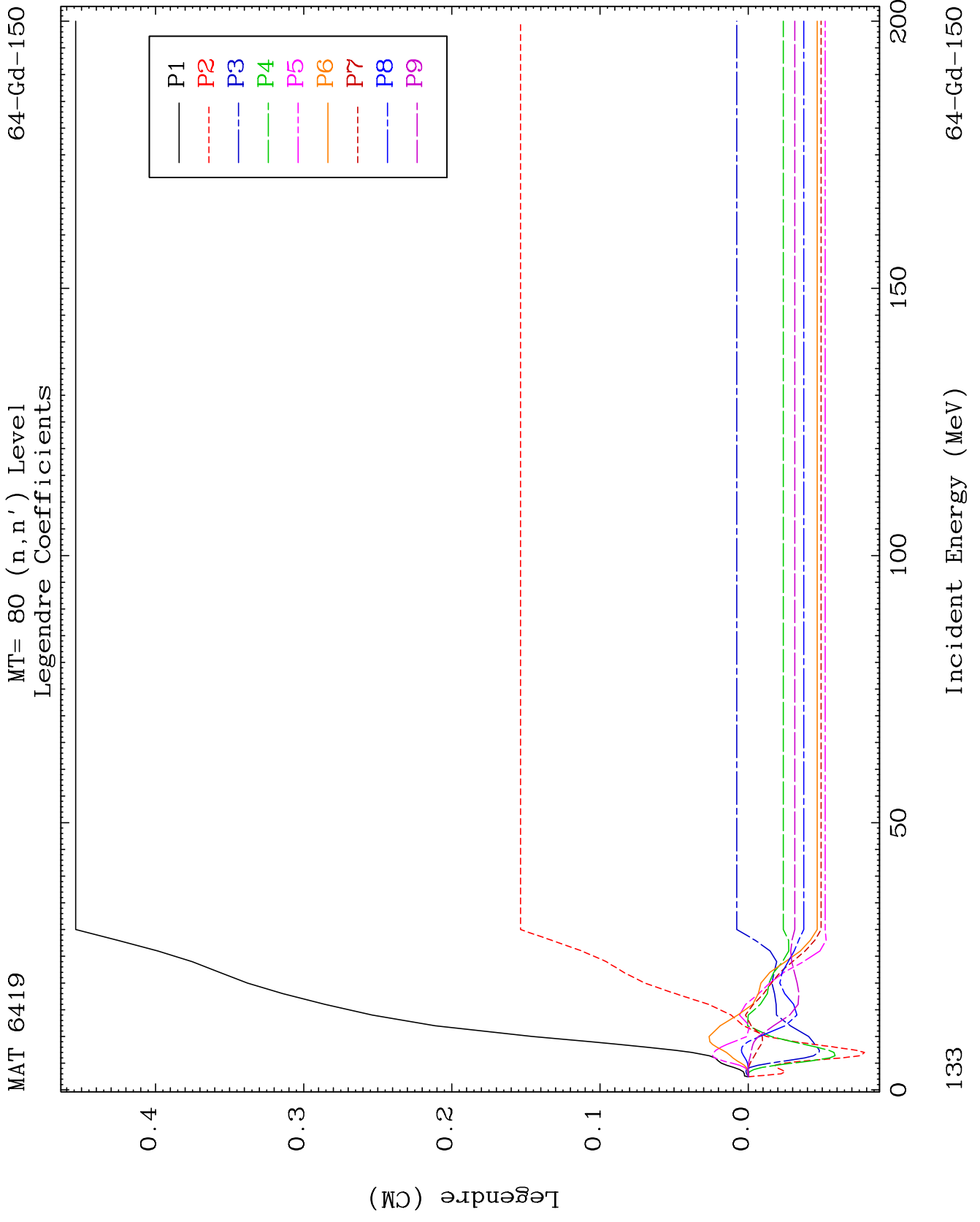
64-Gd-150

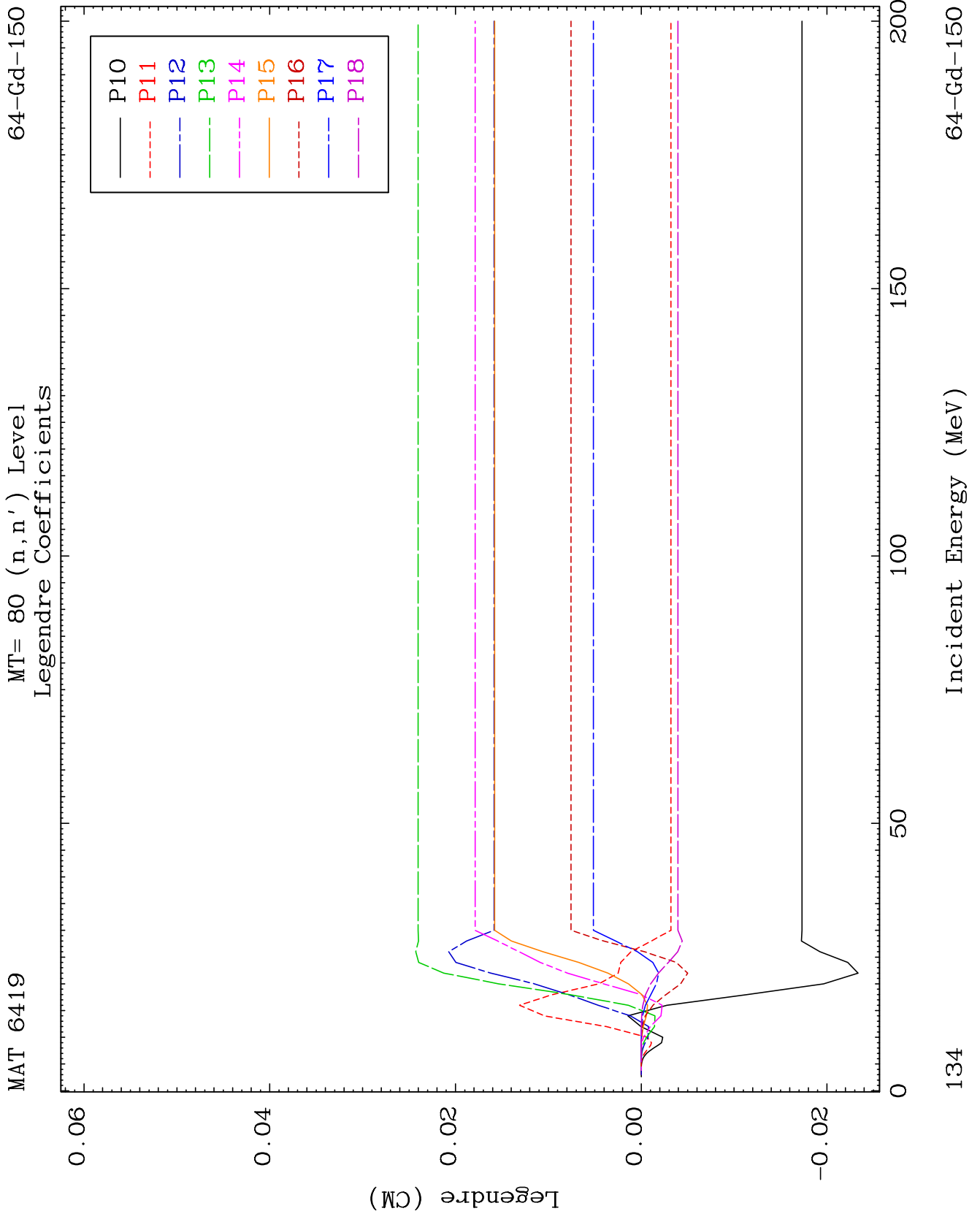


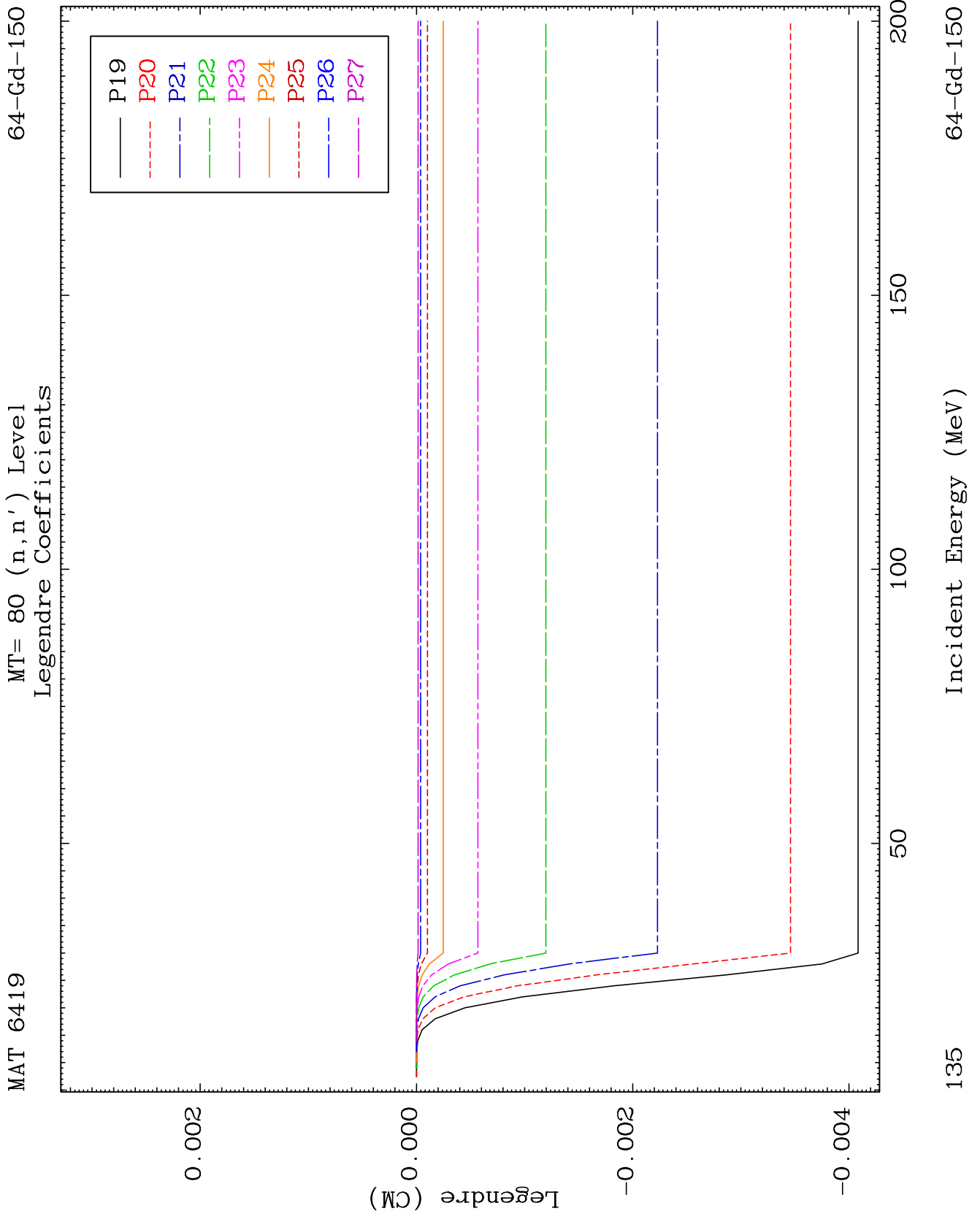
132

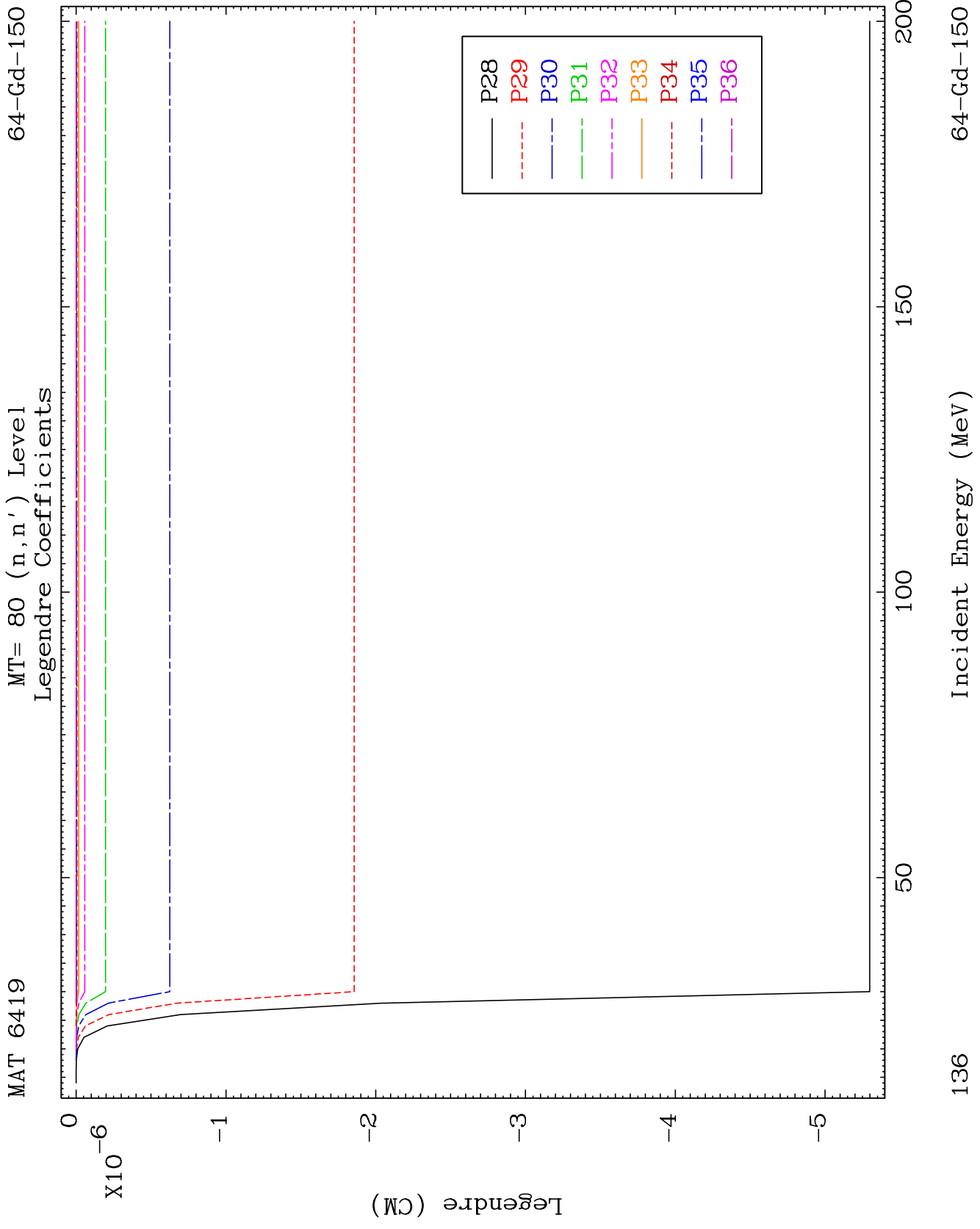
Incident Energy (MeV)

64-Gd-150







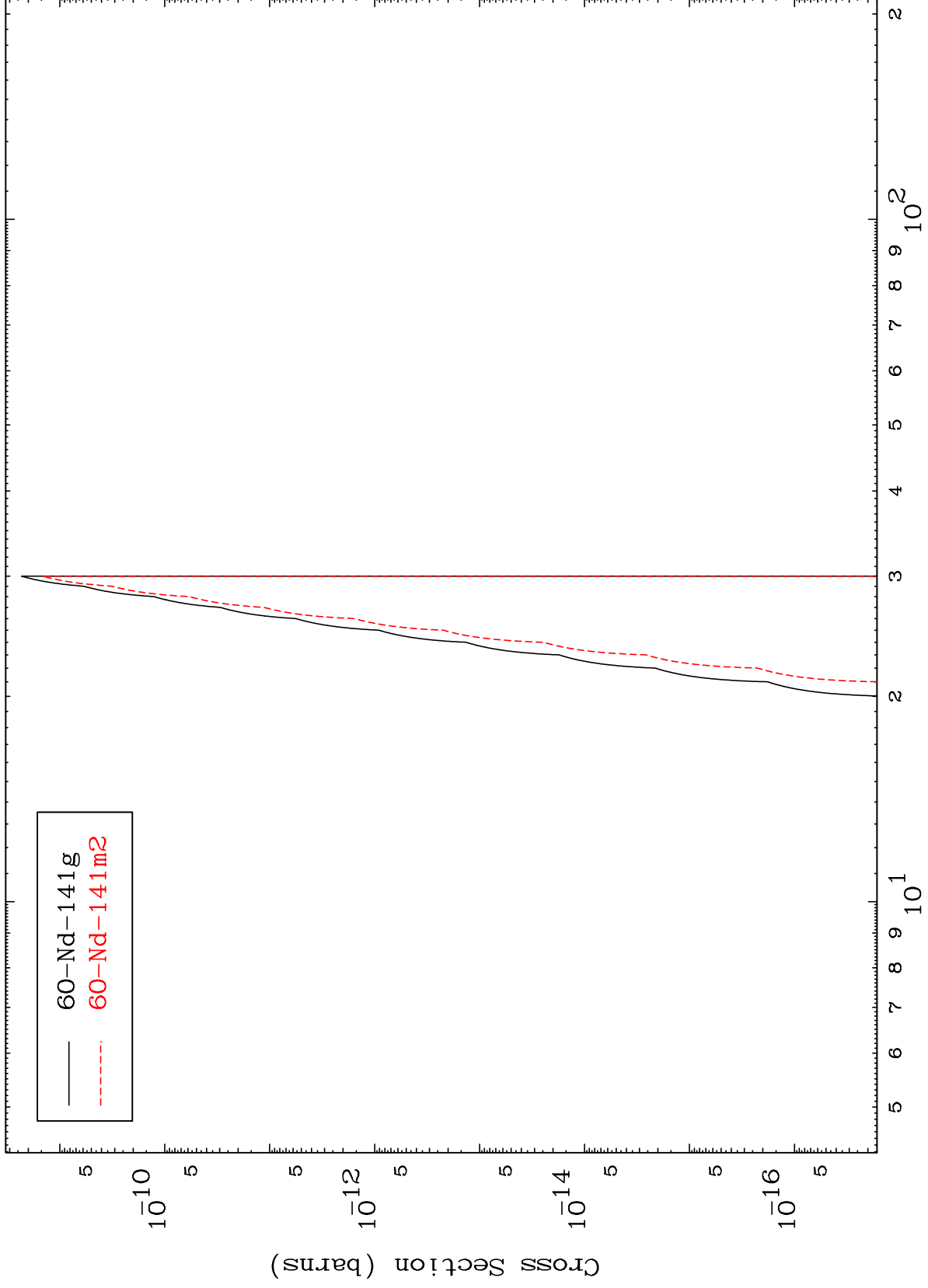


MAT 6419

^{60}Nd 2α

^{64}Gd -150

Radionuclide Production Cross Section



— $^{60}\text{Nd-141g}$
- - - $^{60}\text{Nd-141m2}$

137

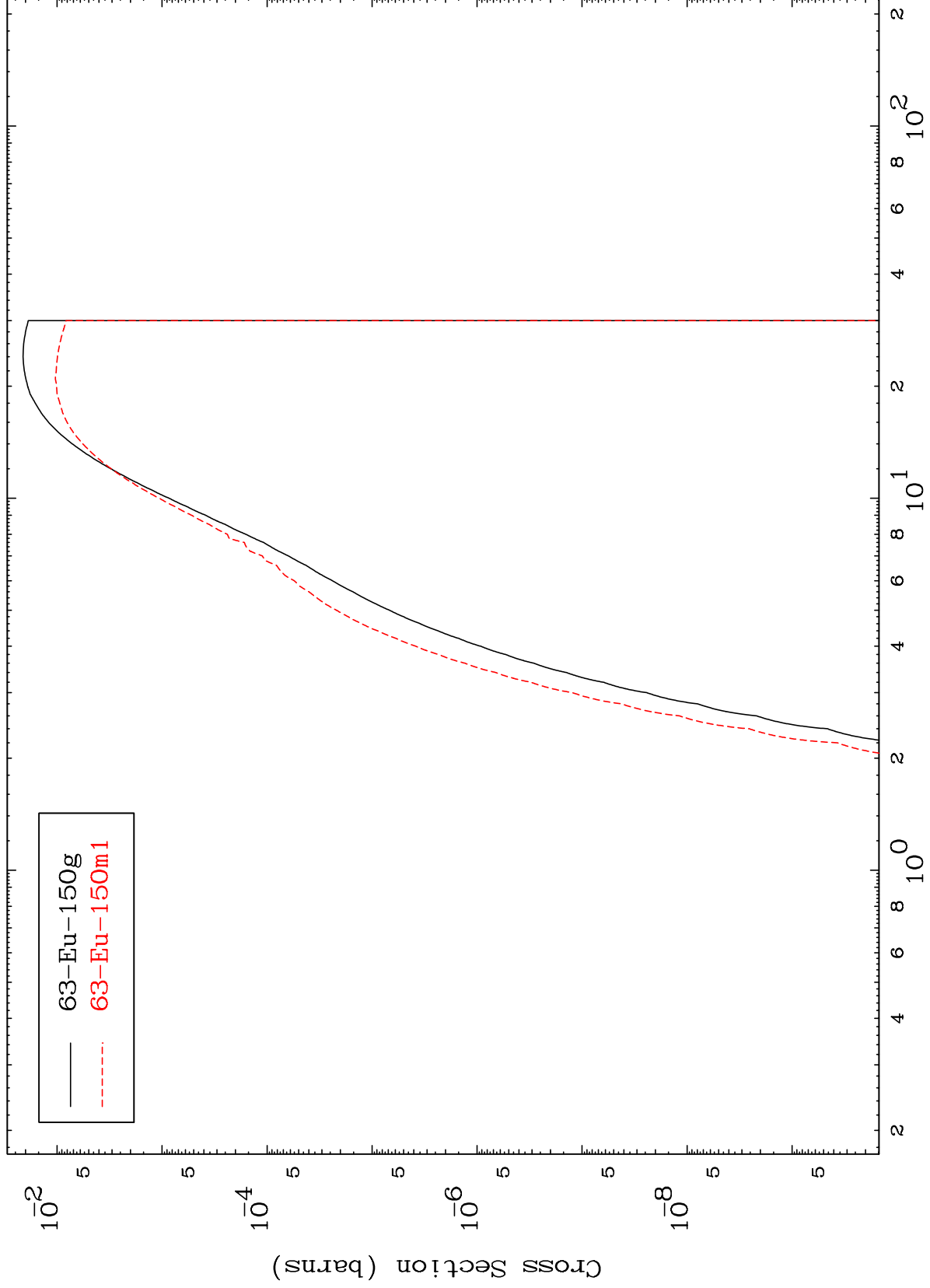
Incident Energy (MeV)

^{64}Gd -150

MAT 6419

64-Gd-150

(n,p)
Radionuclide Production Cross Section



138

Incident Energy (MeV)

64-Gd-150