

Program EVALPLOT
(Version 2021-1)

by

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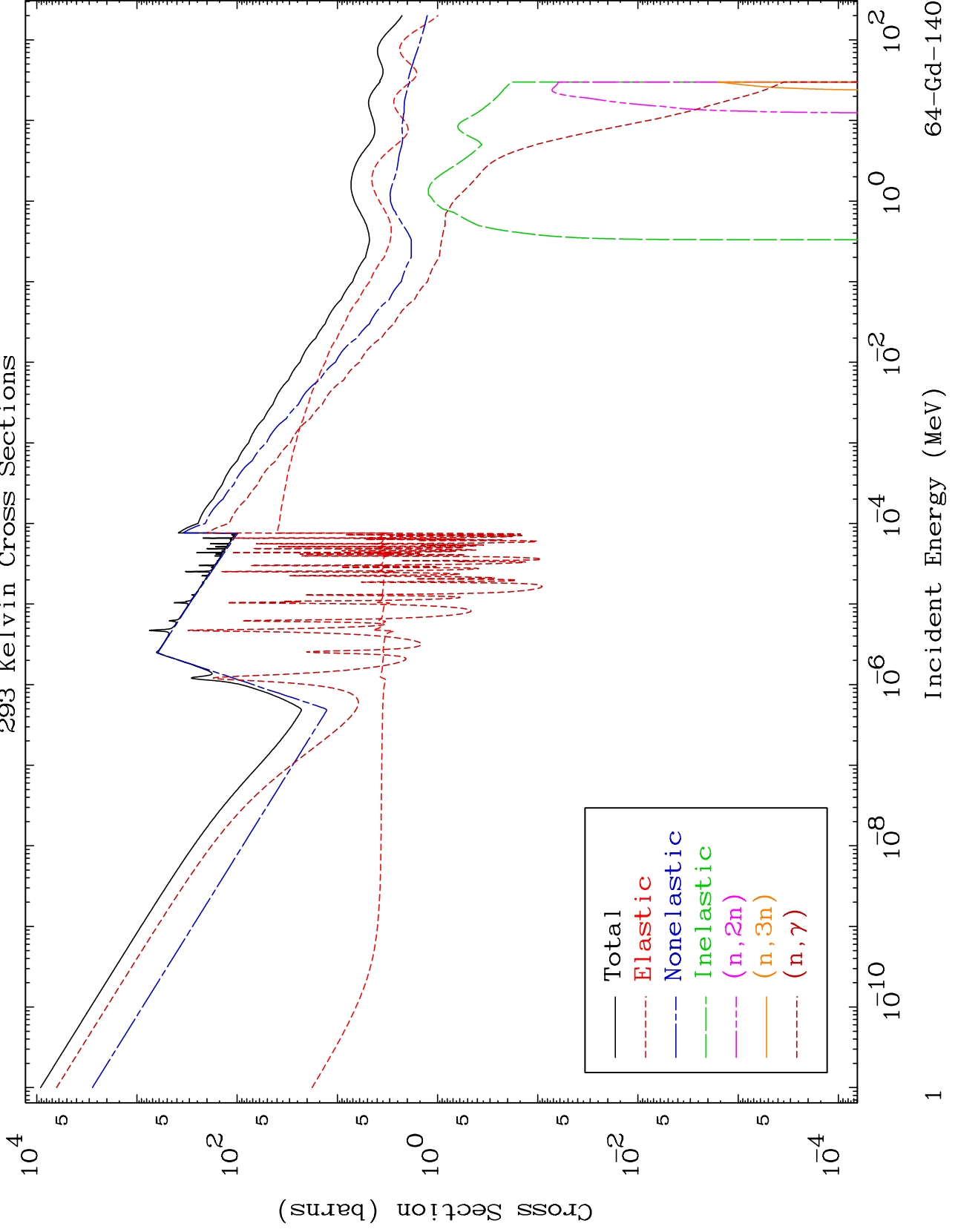
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Press Mouse Button to Start

MAT 6389

Neutron Major
293 Kelvin Cross Sections

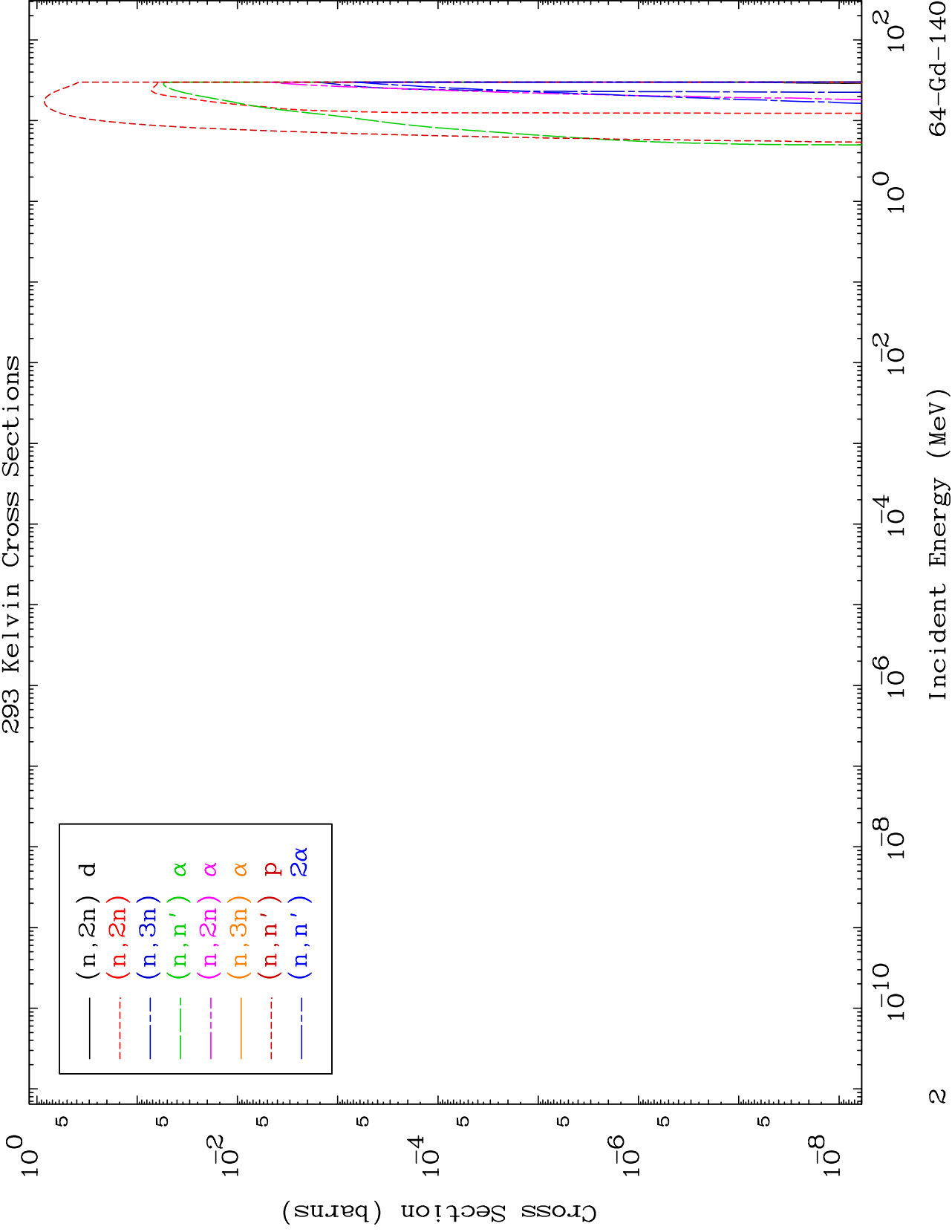
64-Gd-140



MAT 6389

Neutron Absorption
293 Kelvin Cross Sections

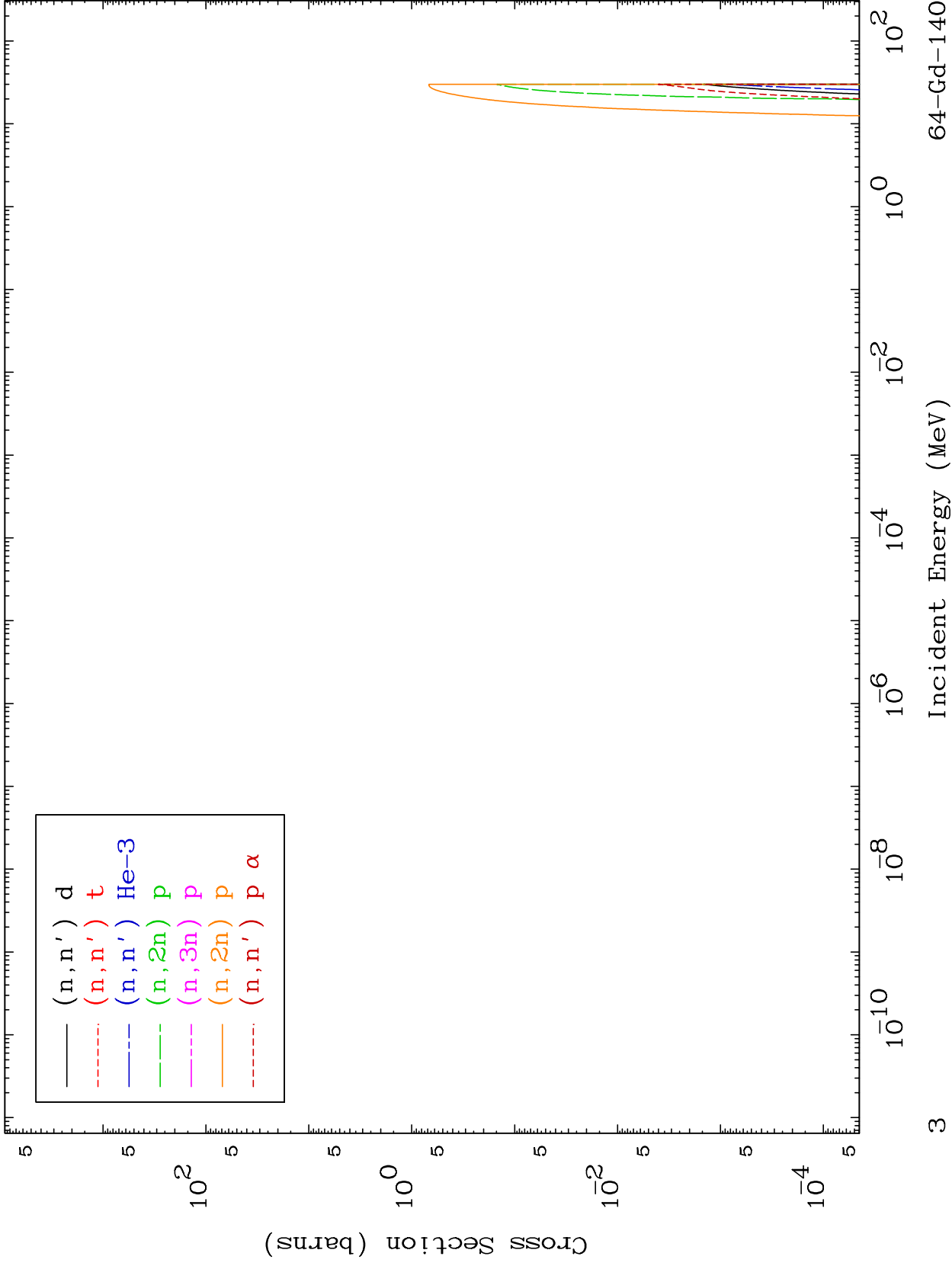
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MAT 6389

Neutron Absorption
293 Kelvin Cross Sections

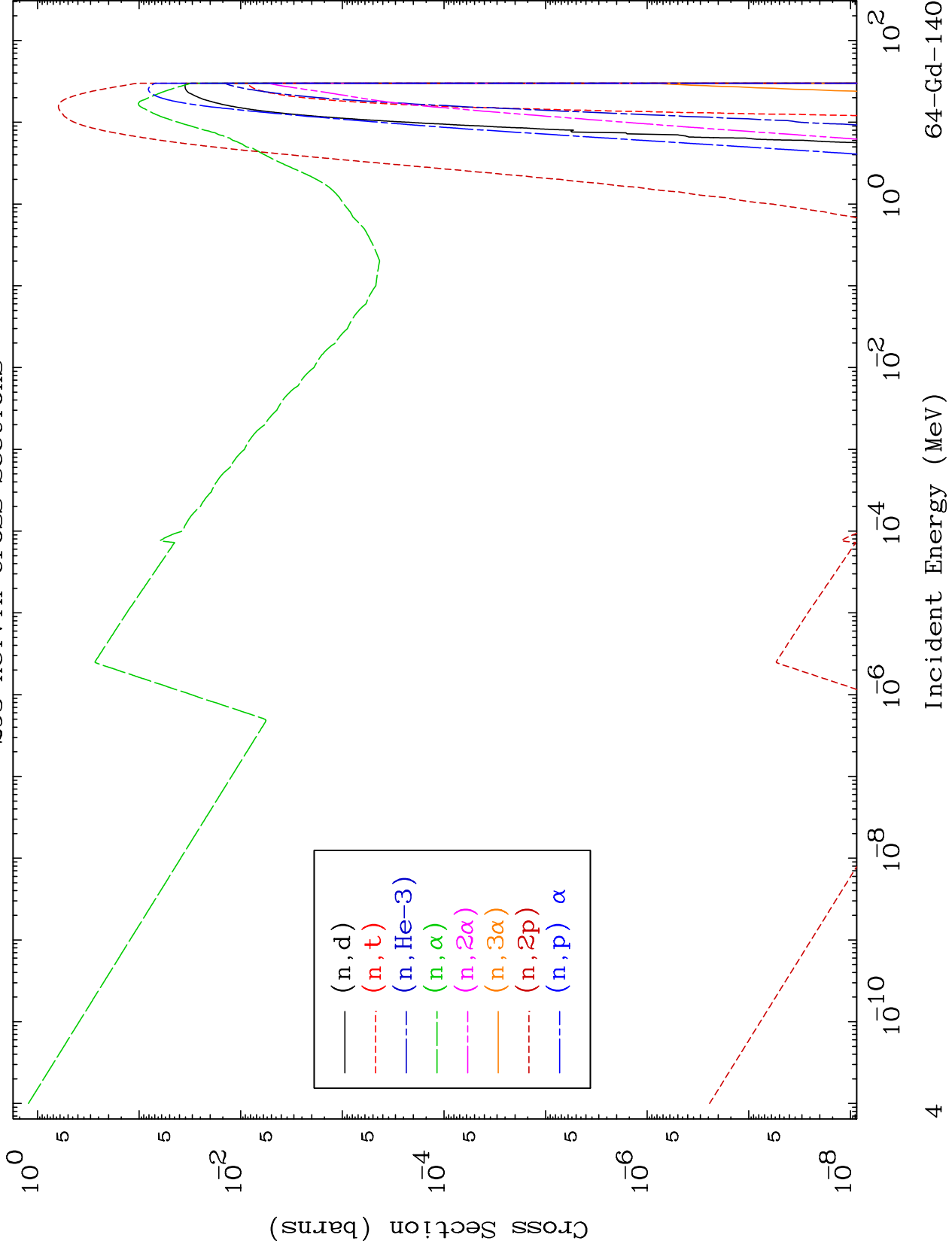
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MAT 6389

Neutron Absorption
293 Kelvin Cross Sections

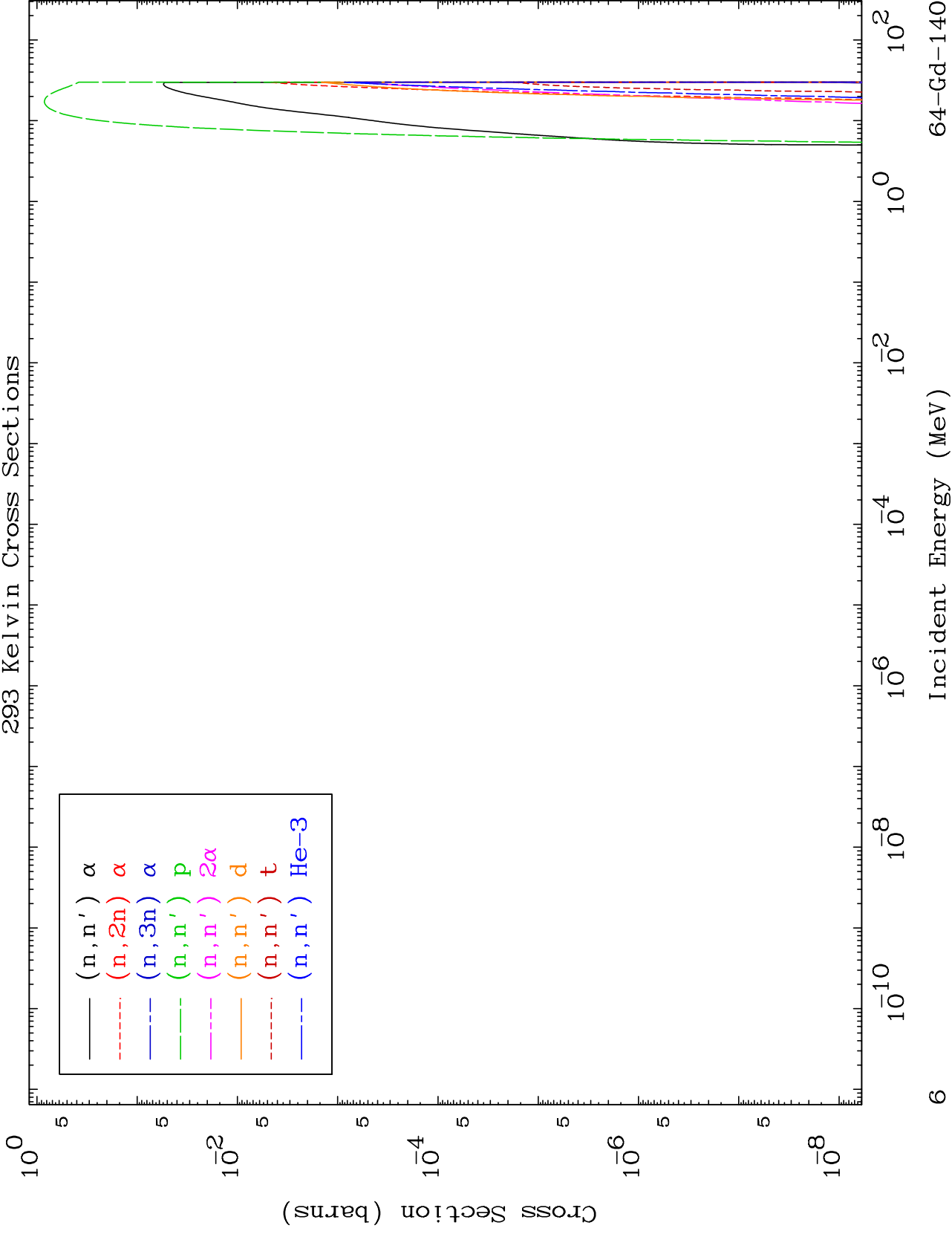
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MAT 6389

Charged Particle
293 Kelvin Cross Sections

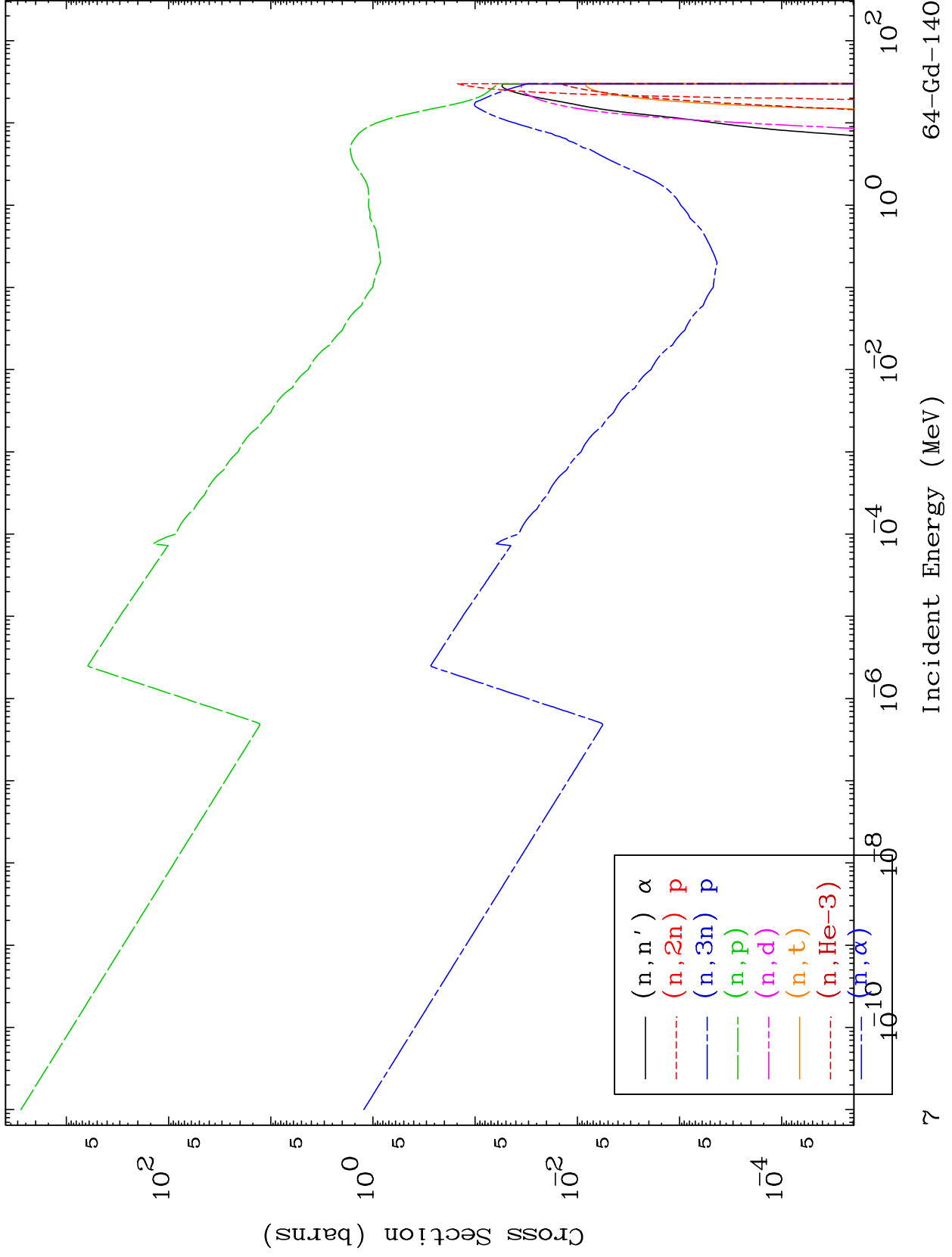
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MAT 6389

Charged Particle
293 Kelvin Cross Sections

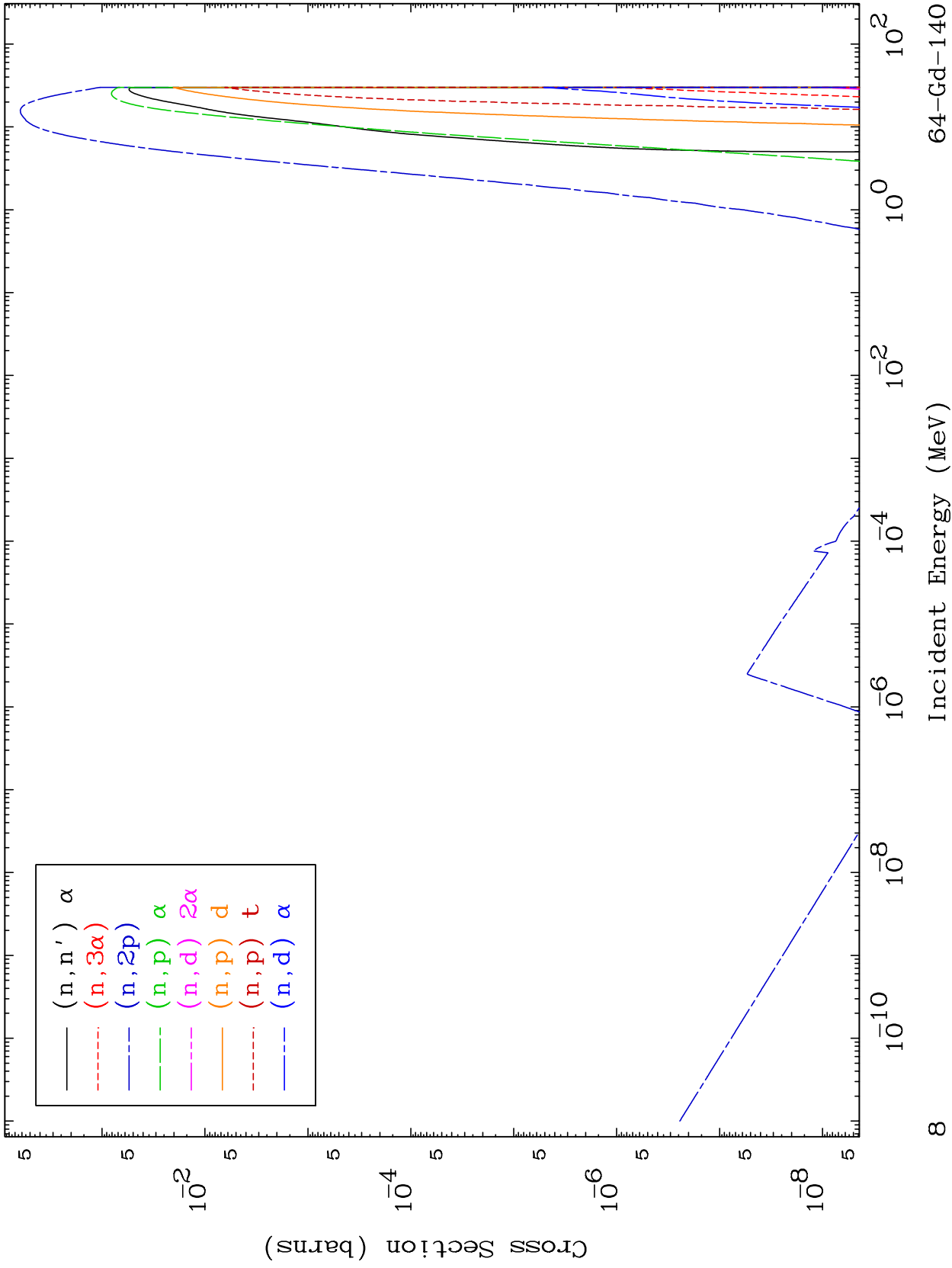
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MAT 6389

Charged Particle
293 Kelvin Cross Sections

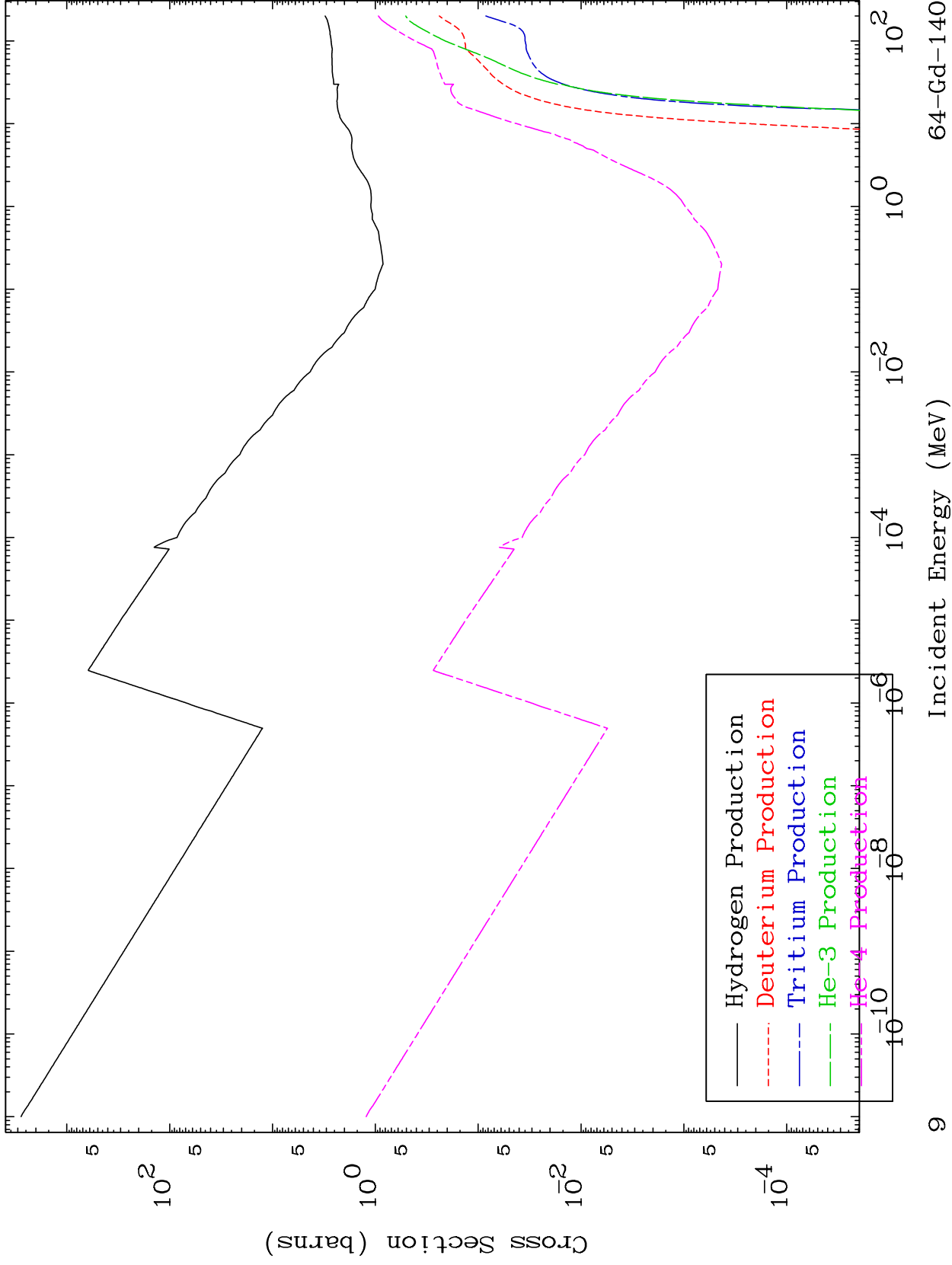
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MAT 6389

Particle Production
293 Kelvin Cross Sections

64-Gd-140

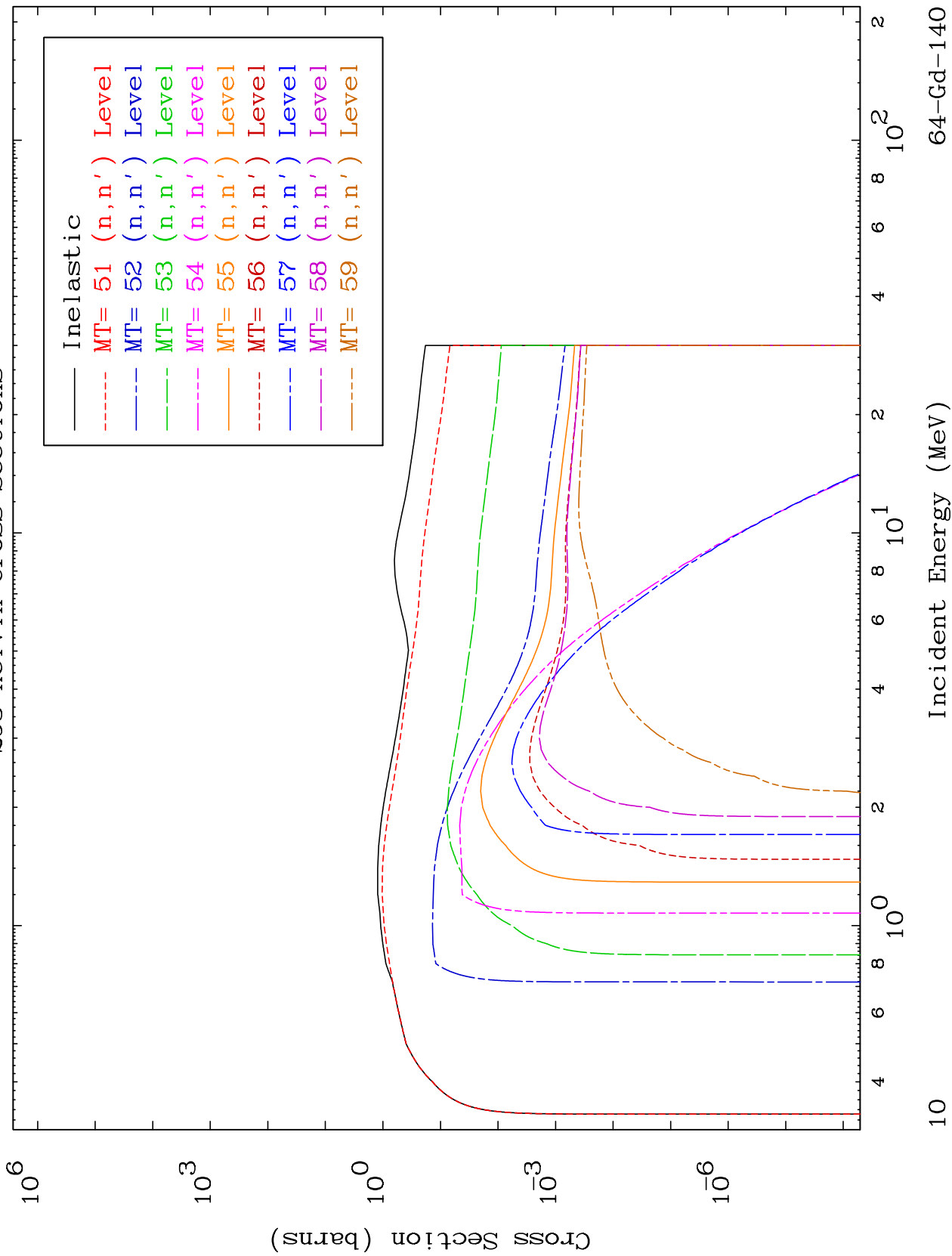


MAT 6389

(n,n') Levels

64-Gd-140

293 Kelvin Cross Sections



10

Incident Energy (MeV)

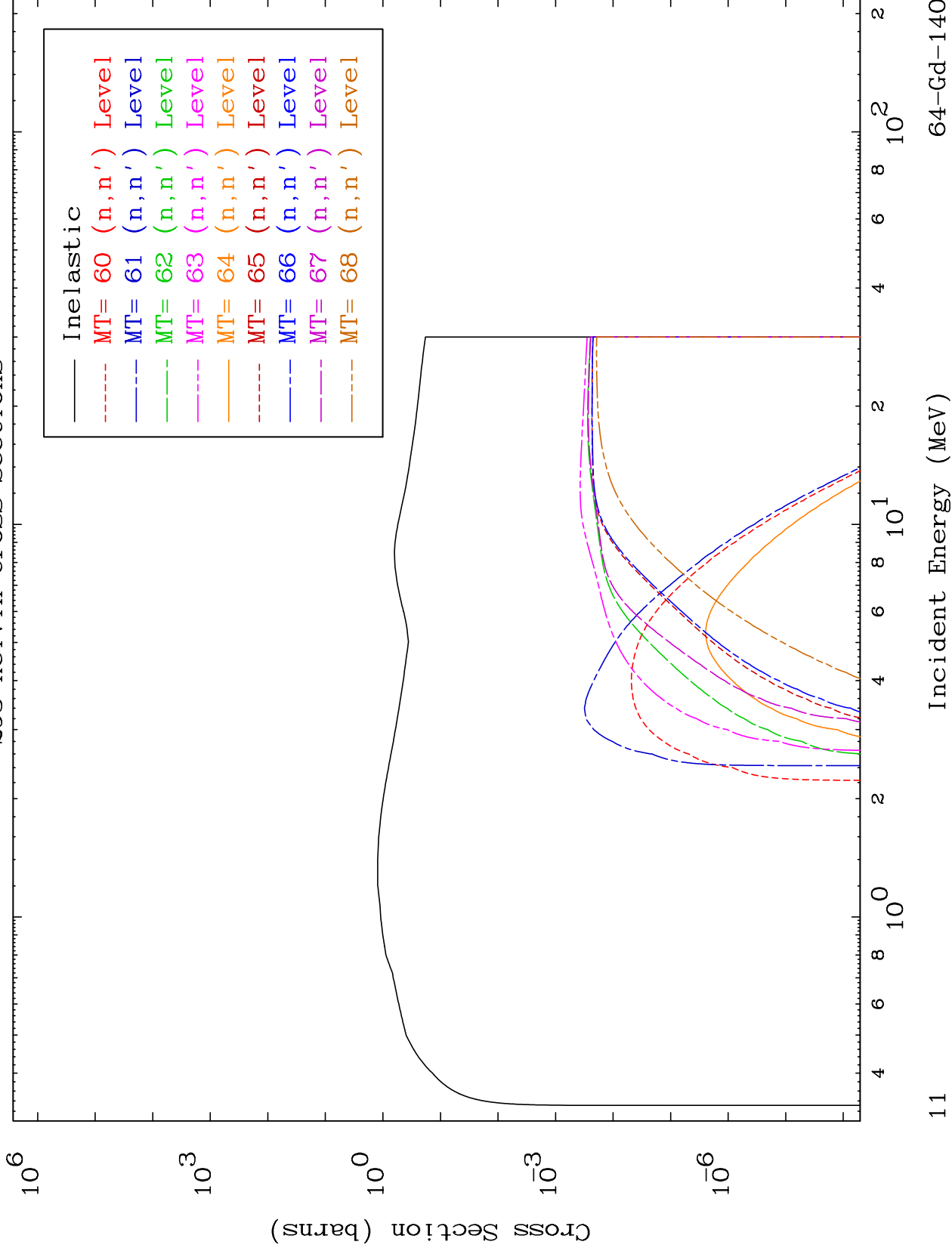
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MAT 6389

(n,n') Levels

64-Gd-140

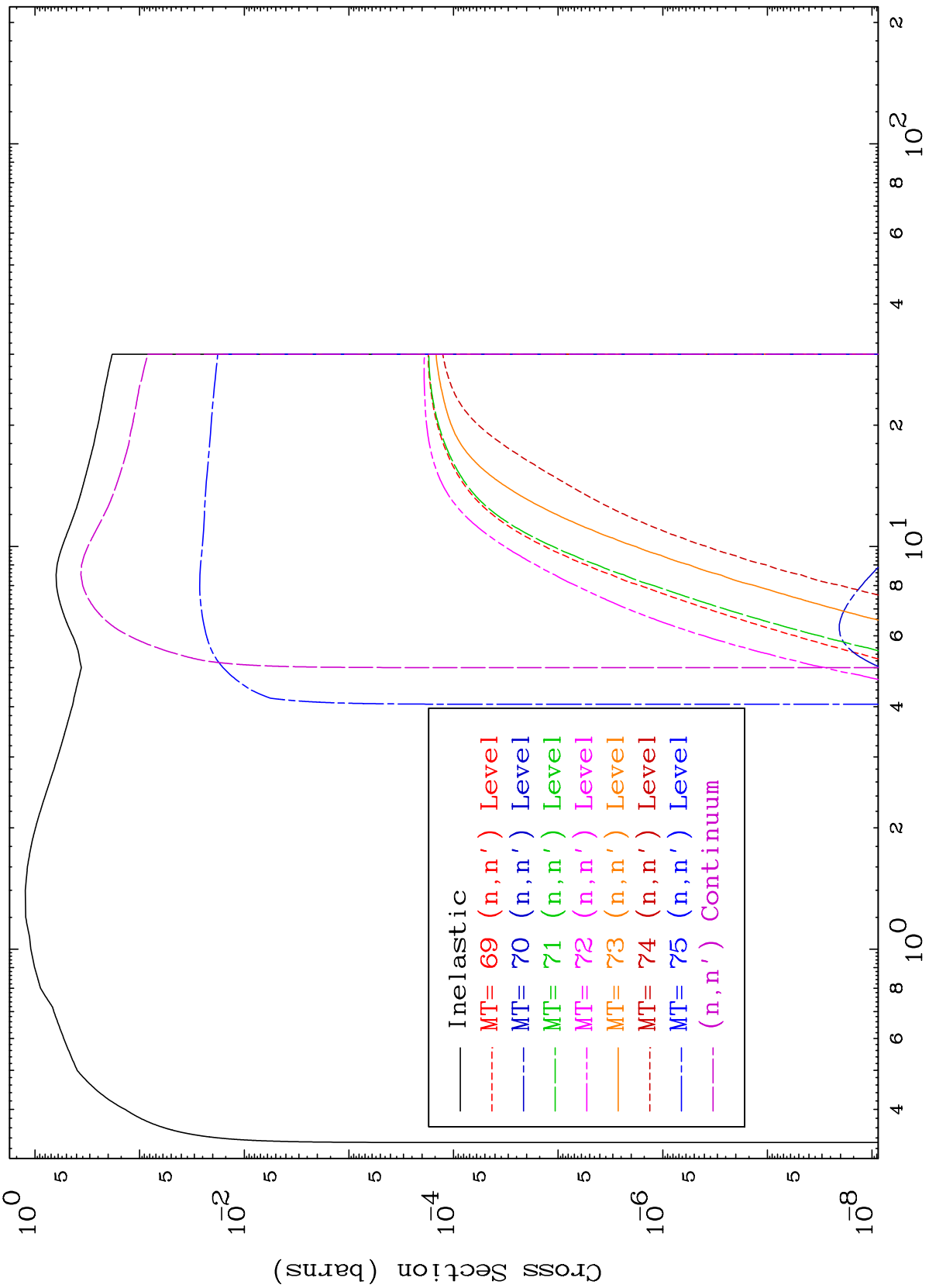
293 Kelvin Cross Sections



MAT 6389

64-Gd-140

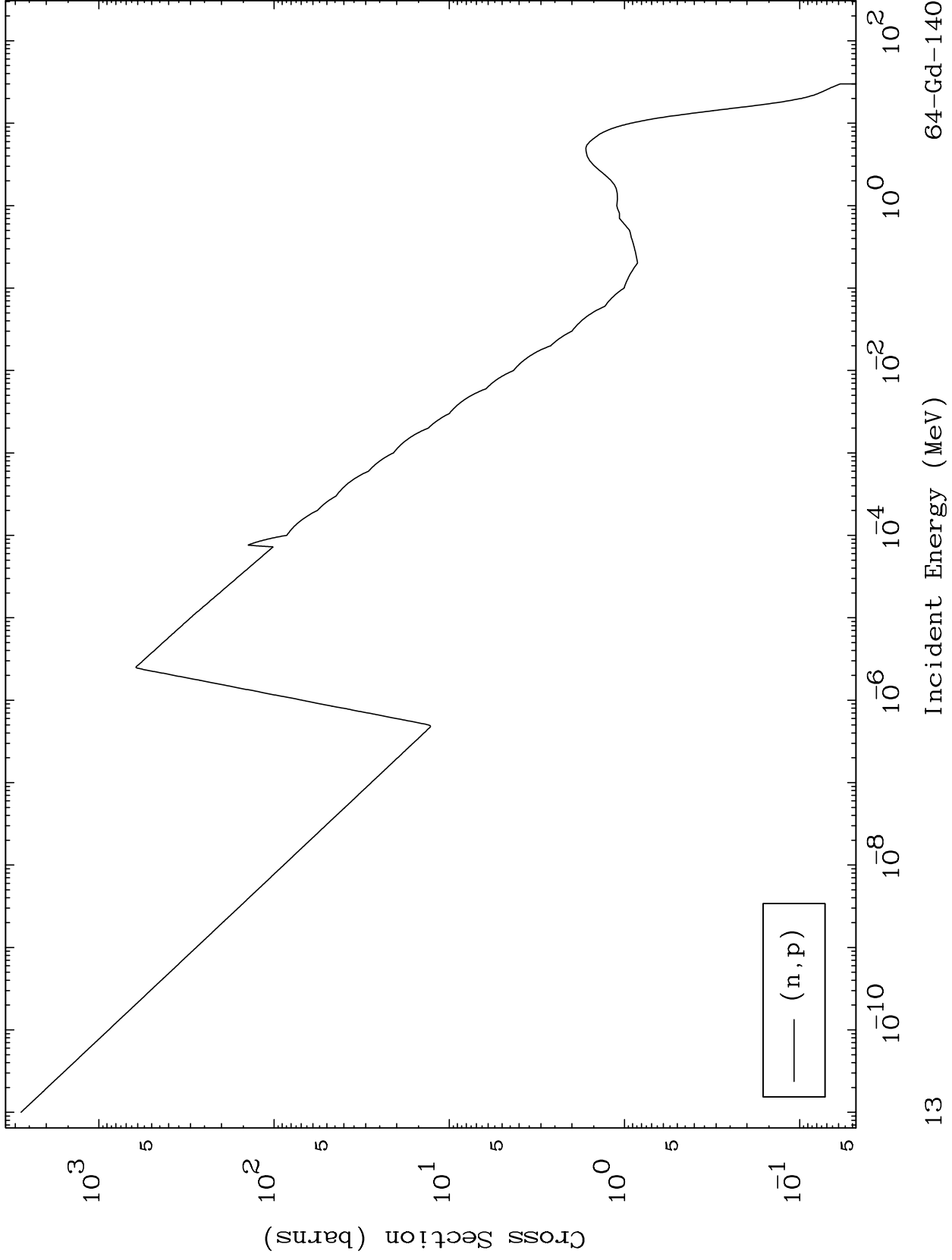
293 Kelvin Cross Sections
(n,n') Levels



MAT 6389

(n,p) Levels
293 Kelvin Cross Sections

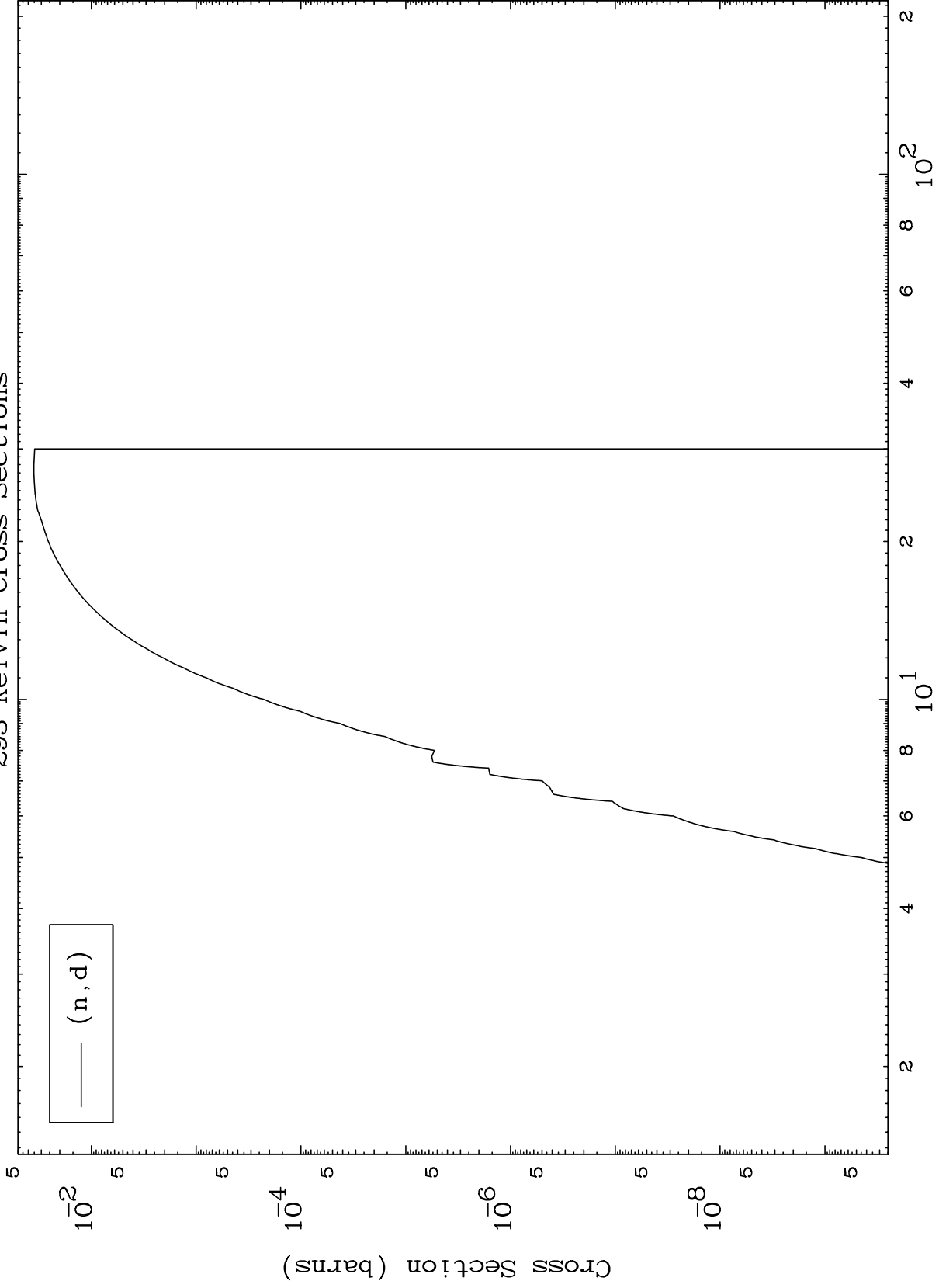
64-Gd-140



MAT 6389

(n,d) Levels
293 Kelvin Cross Sections

64-Gd-140



14

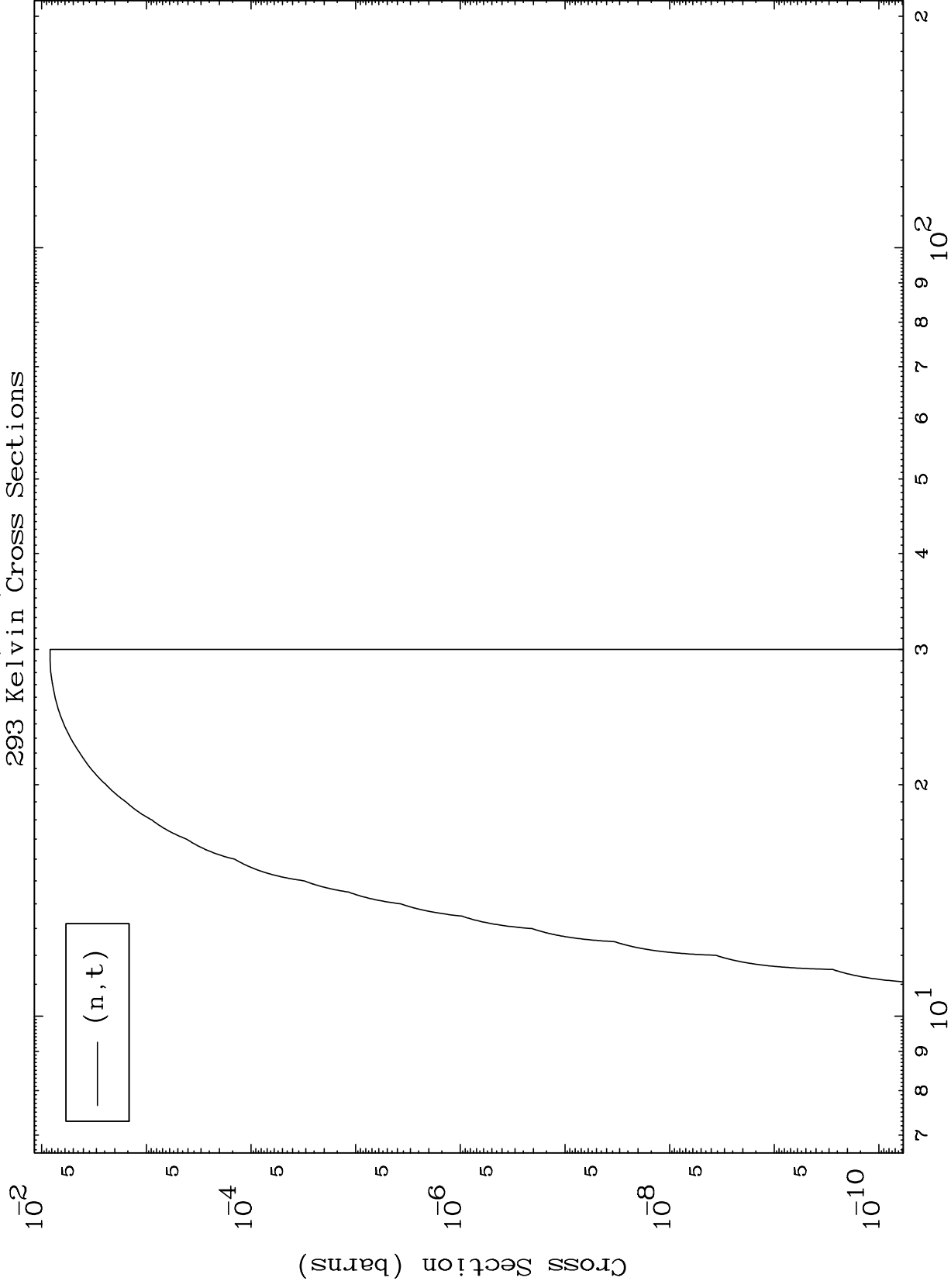
Incident Energy (MeV)

64-Gd-140

MAT 6389

(n,t) Levels
293 Kelvin Cross Sections

64-Gd-140



15

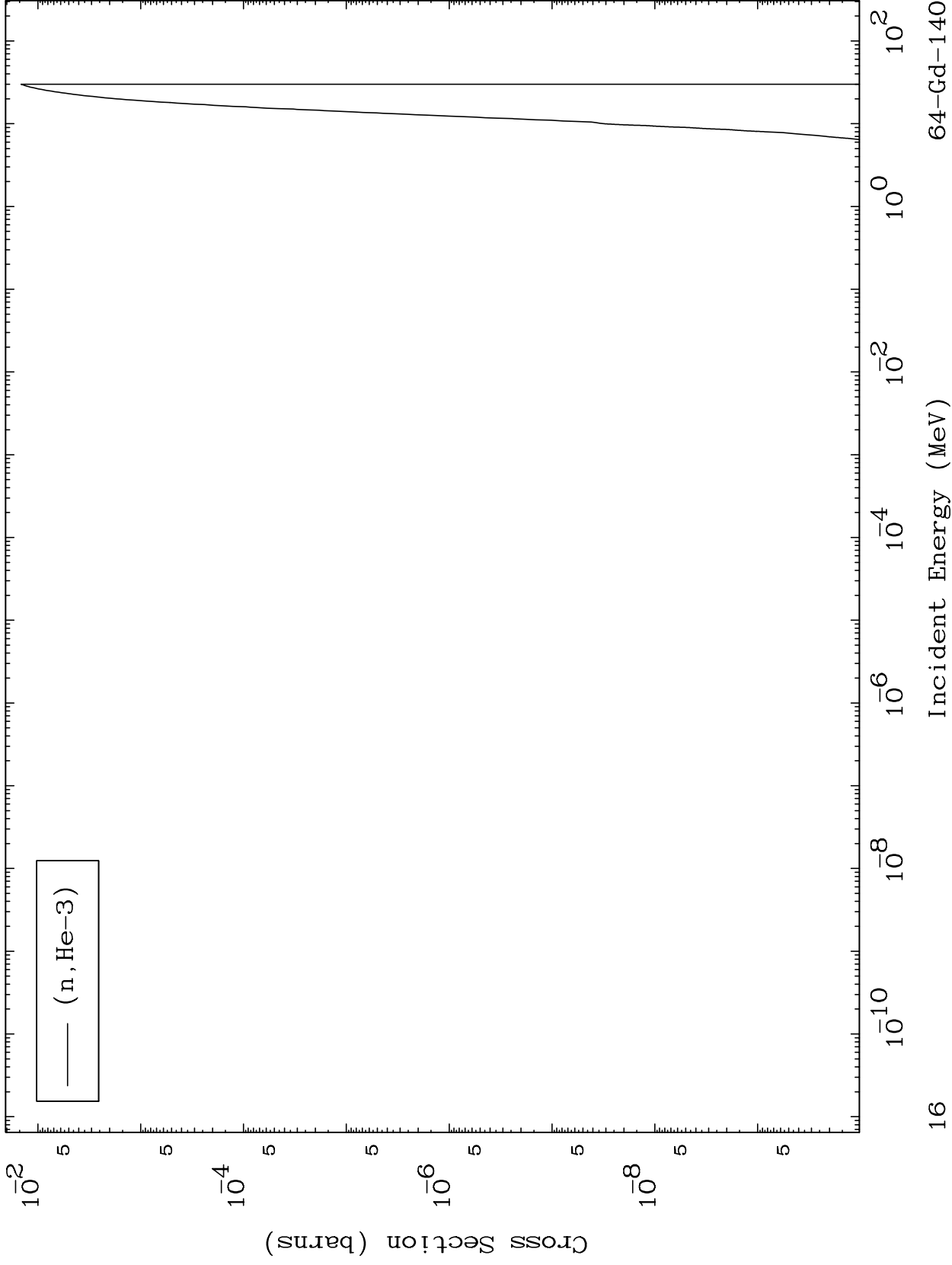
Incident Energy (MeV)

64-Gd-140

MAT 6389

(n,He3) Levels
293 Kelvin Cross Sections

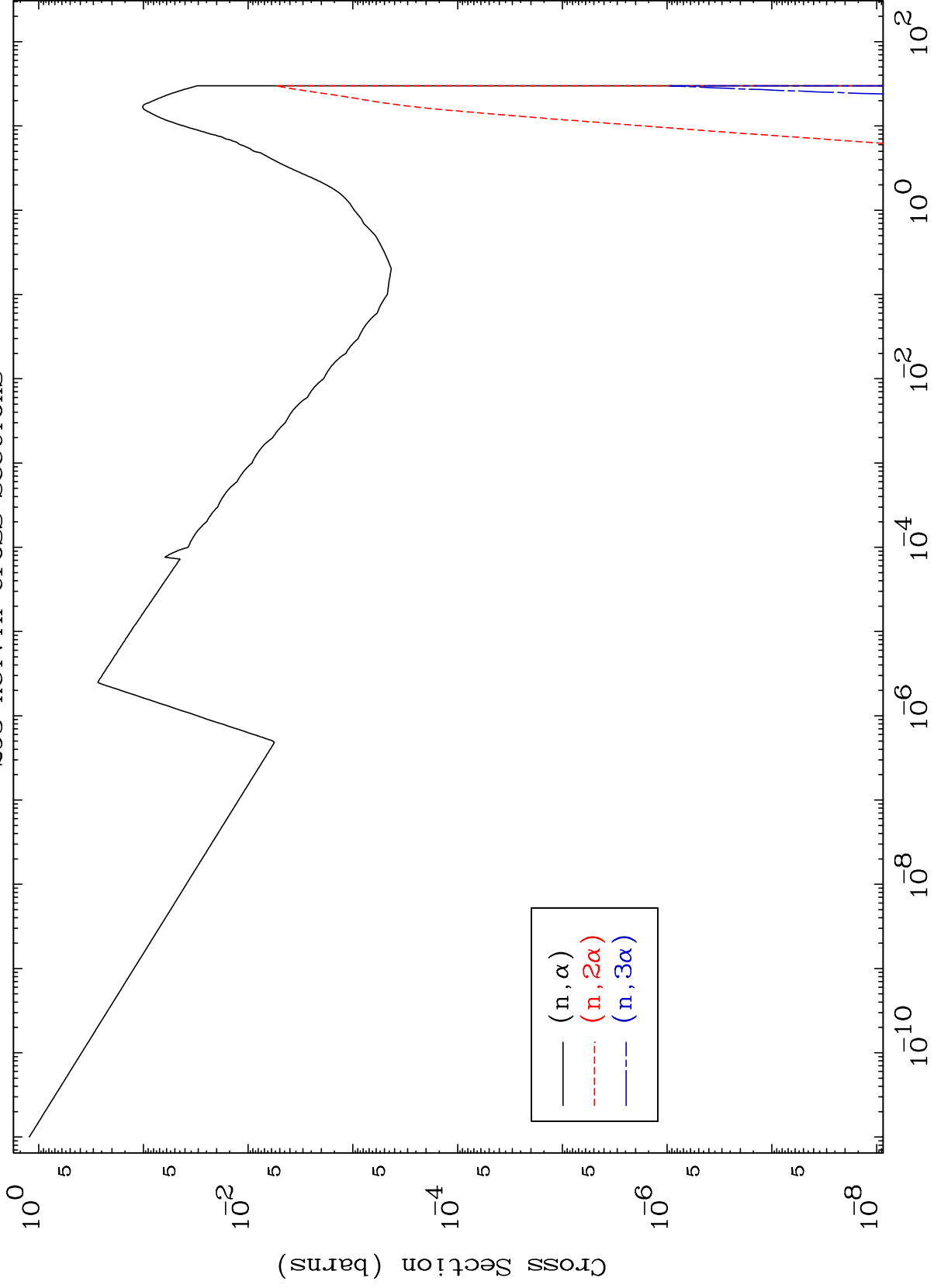
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MAT 6389

(n, α) Levels
293 Kelvin Cross Sections

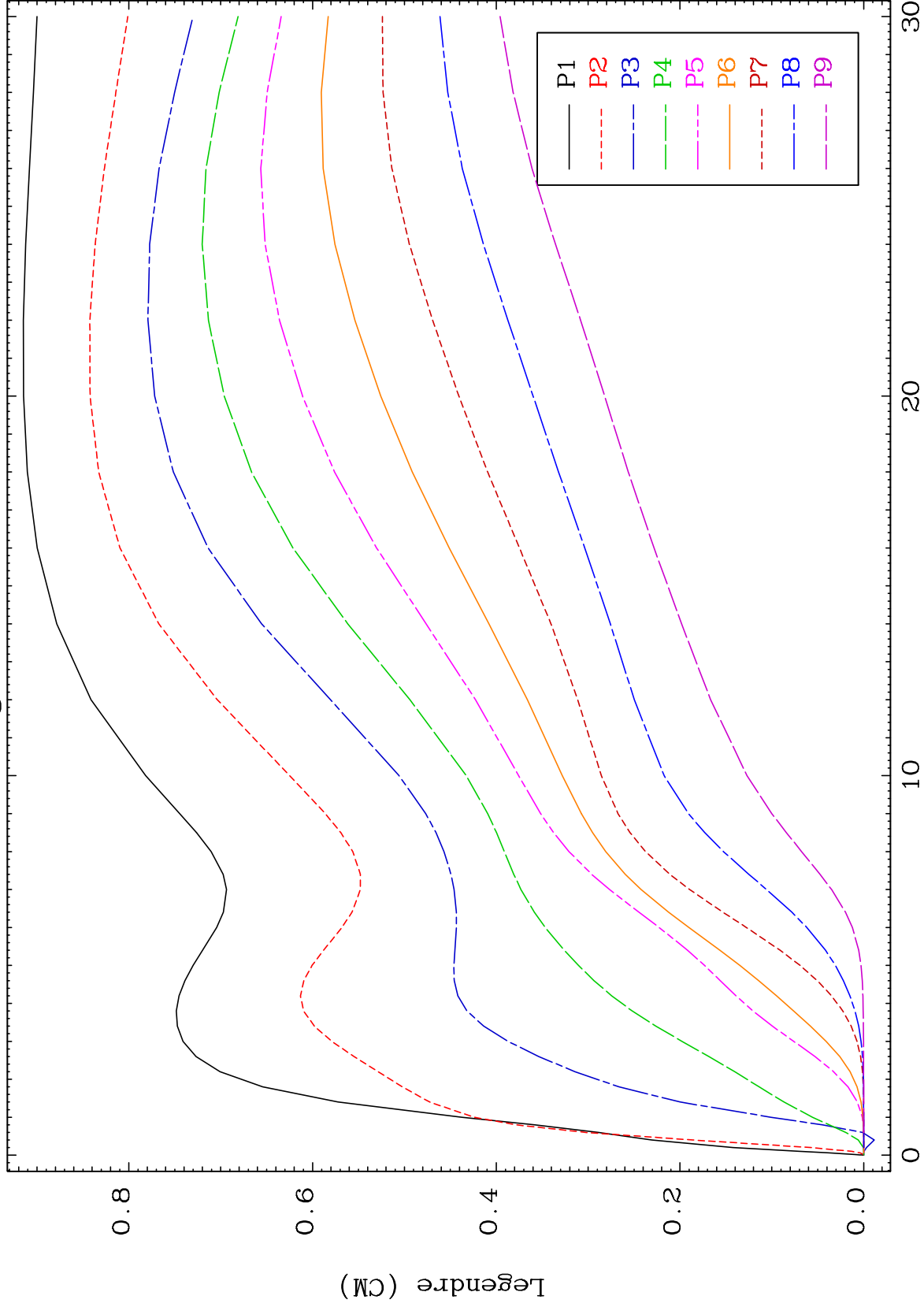
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MAT 6389

Elastic Legendre Coefficients

64-Gd-140



18

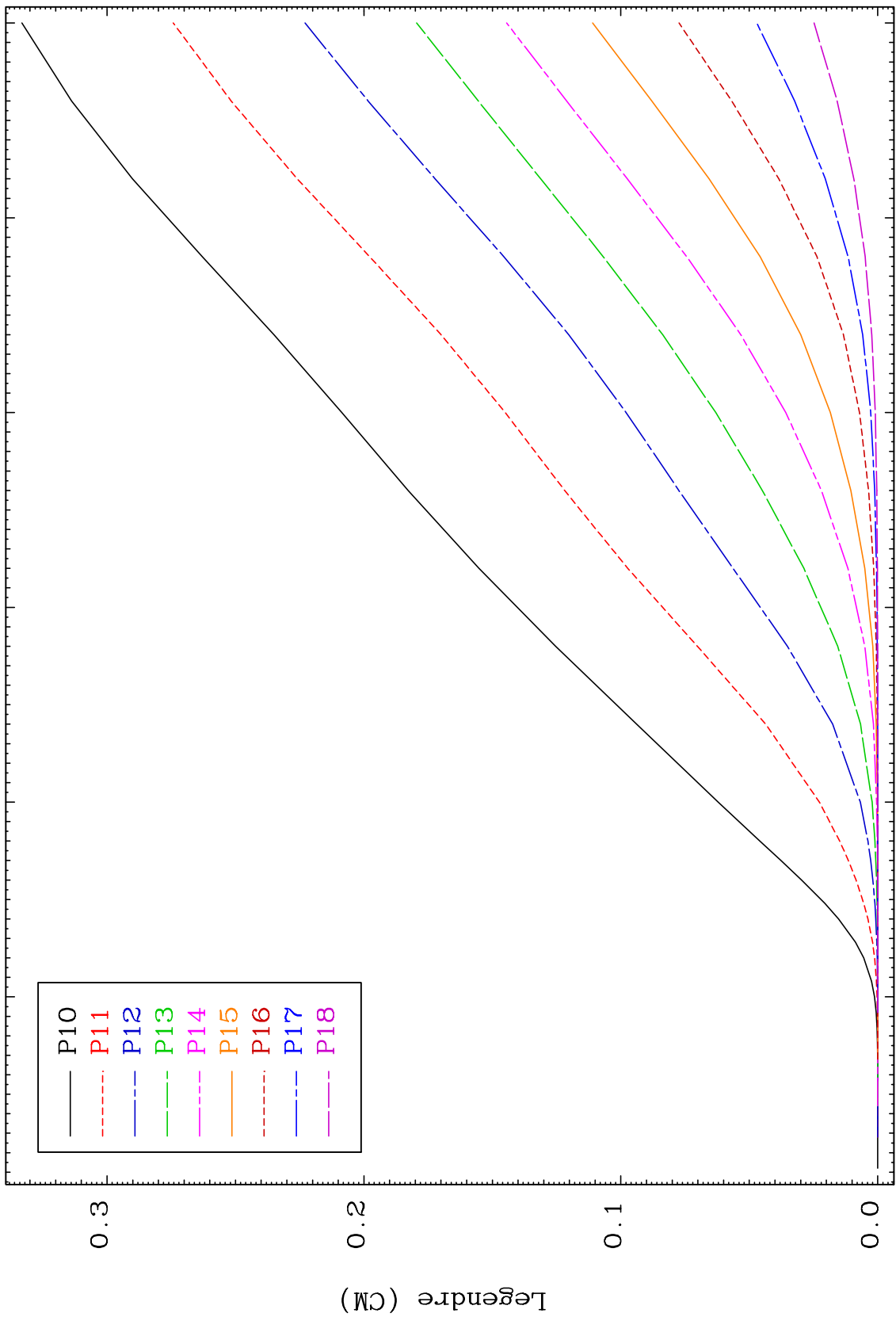
Incident Energy (MeV)

64-Gd-140

MAT 6389

Elastic Legendre Coefficients

64-Gd-140



19

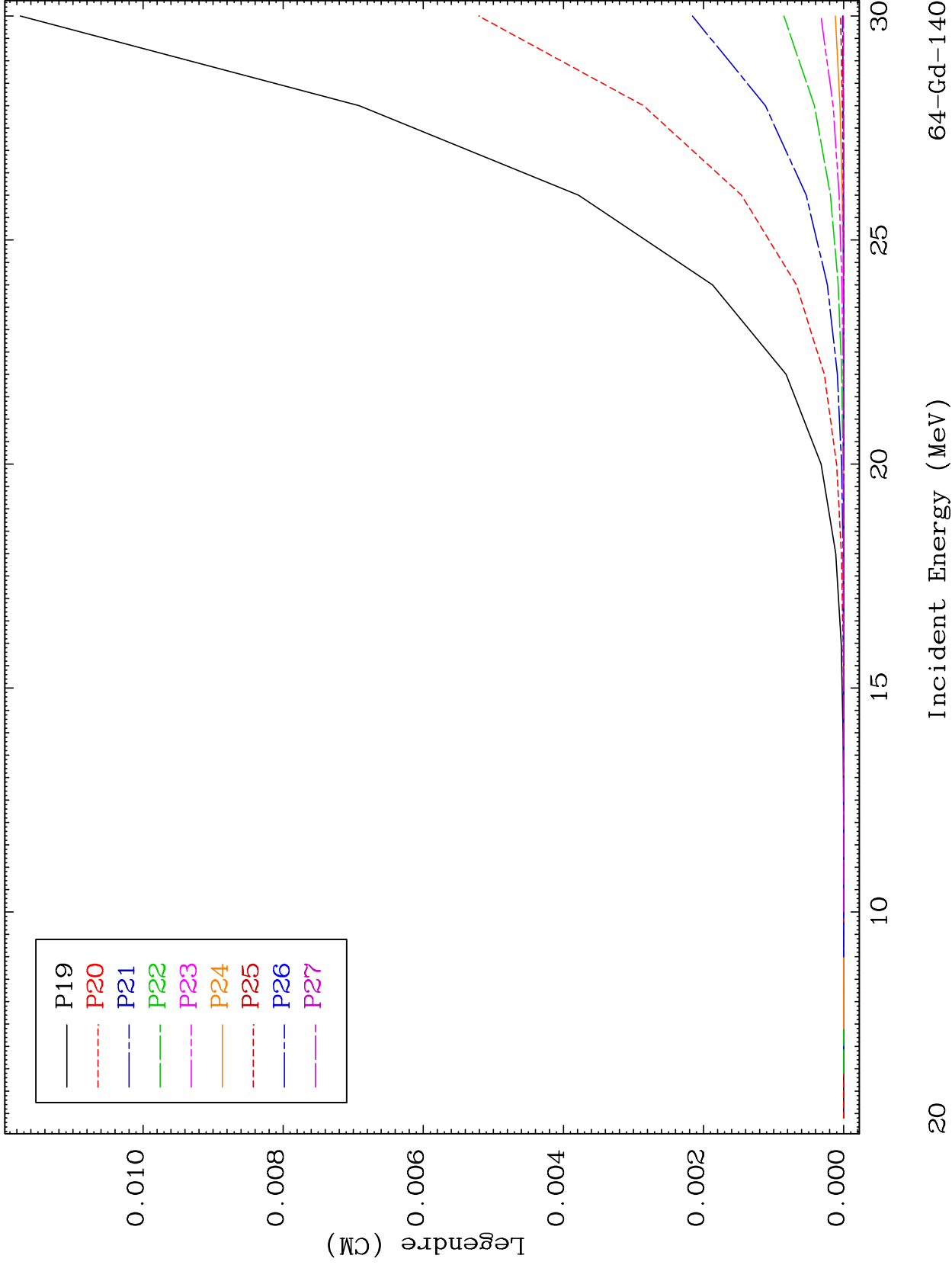
Incident Energy (MeV)

64-Gd-140

MAT 6389

Elastic Legendre Coefficients

64-Gd-140



20

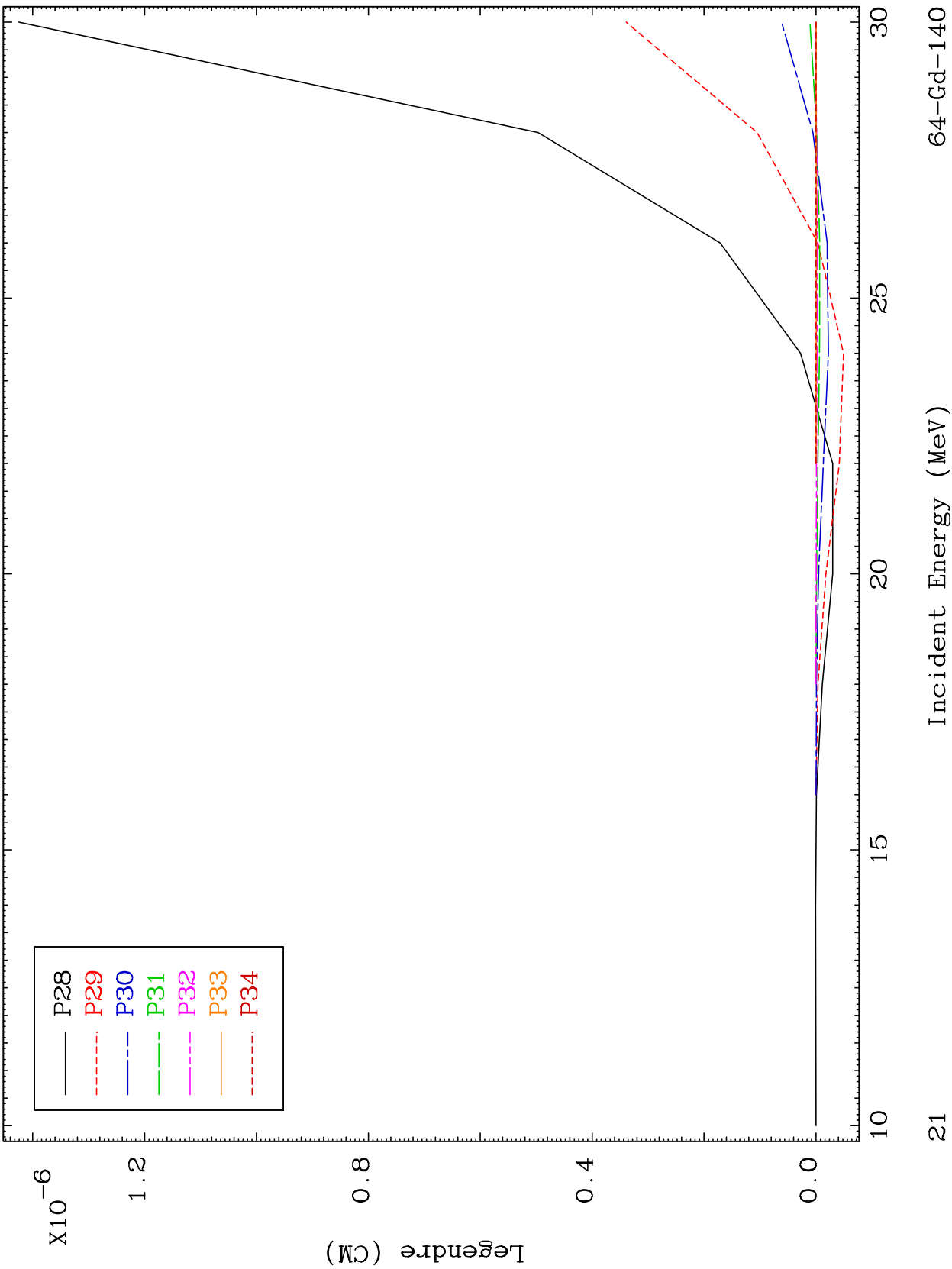
Incident Energy (MeV)

64-Gd-140

MAT 6389

Elastic Legendre Coefficients

64-Gd-140



21

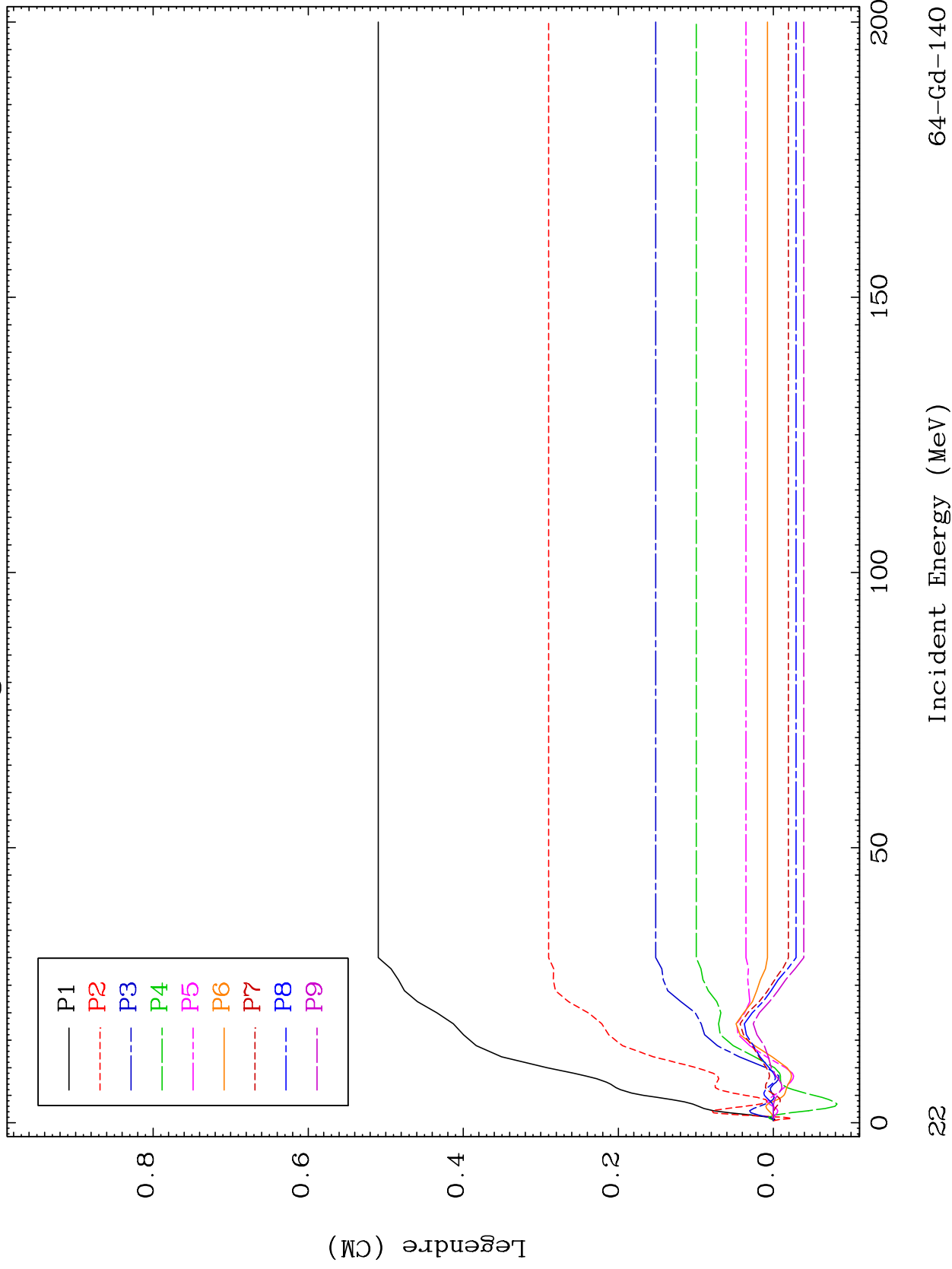
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



22

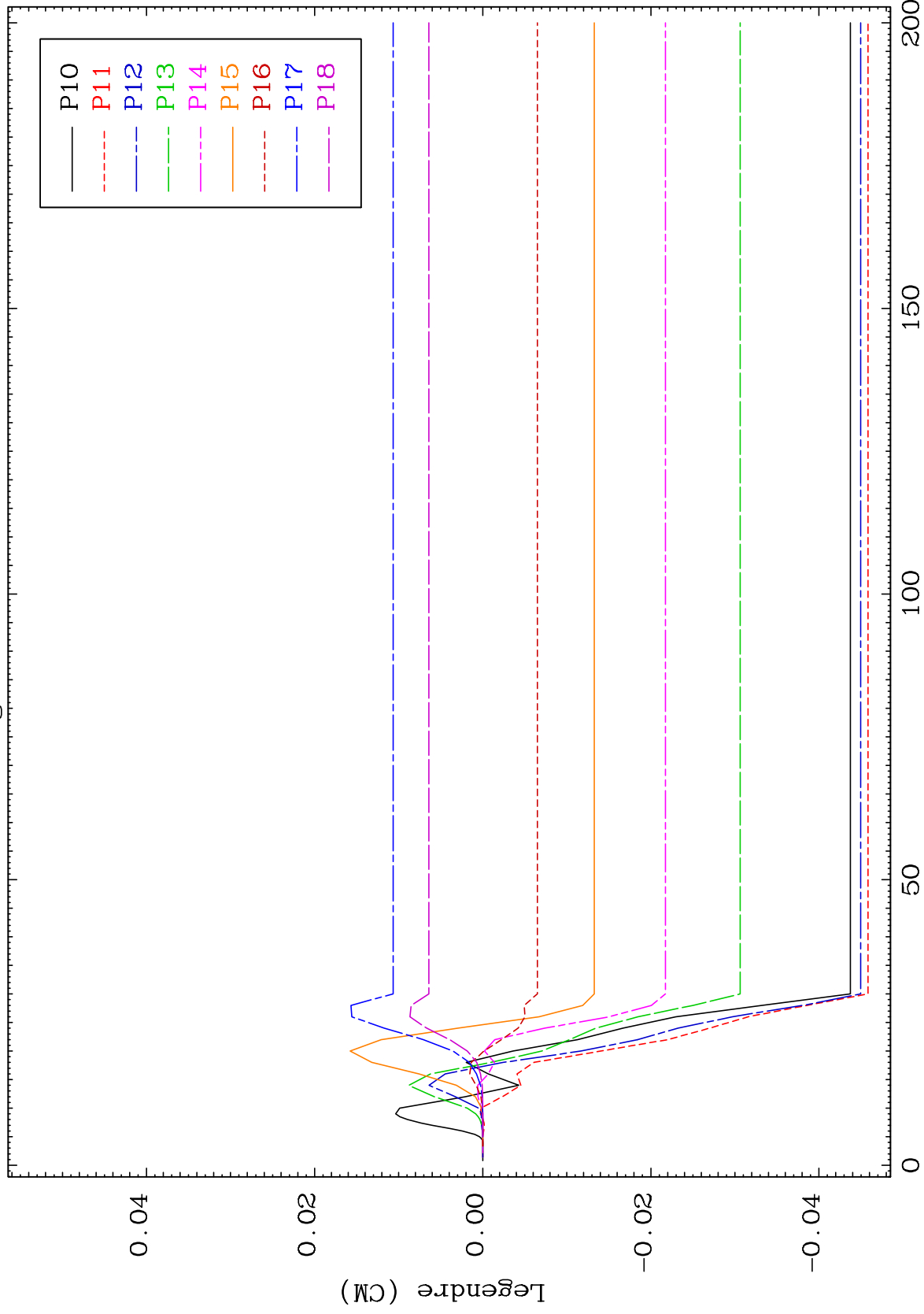
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



23

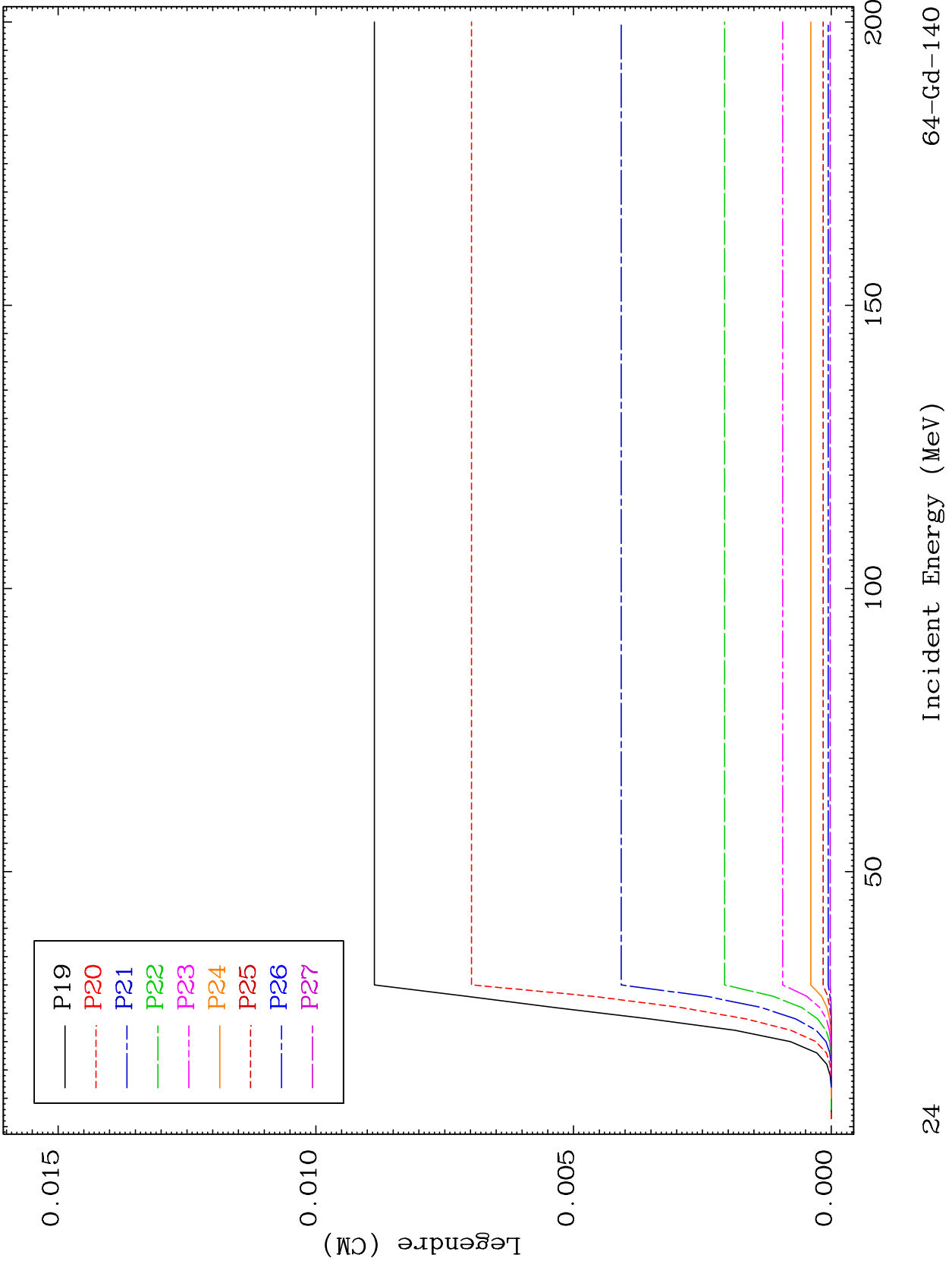
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



24

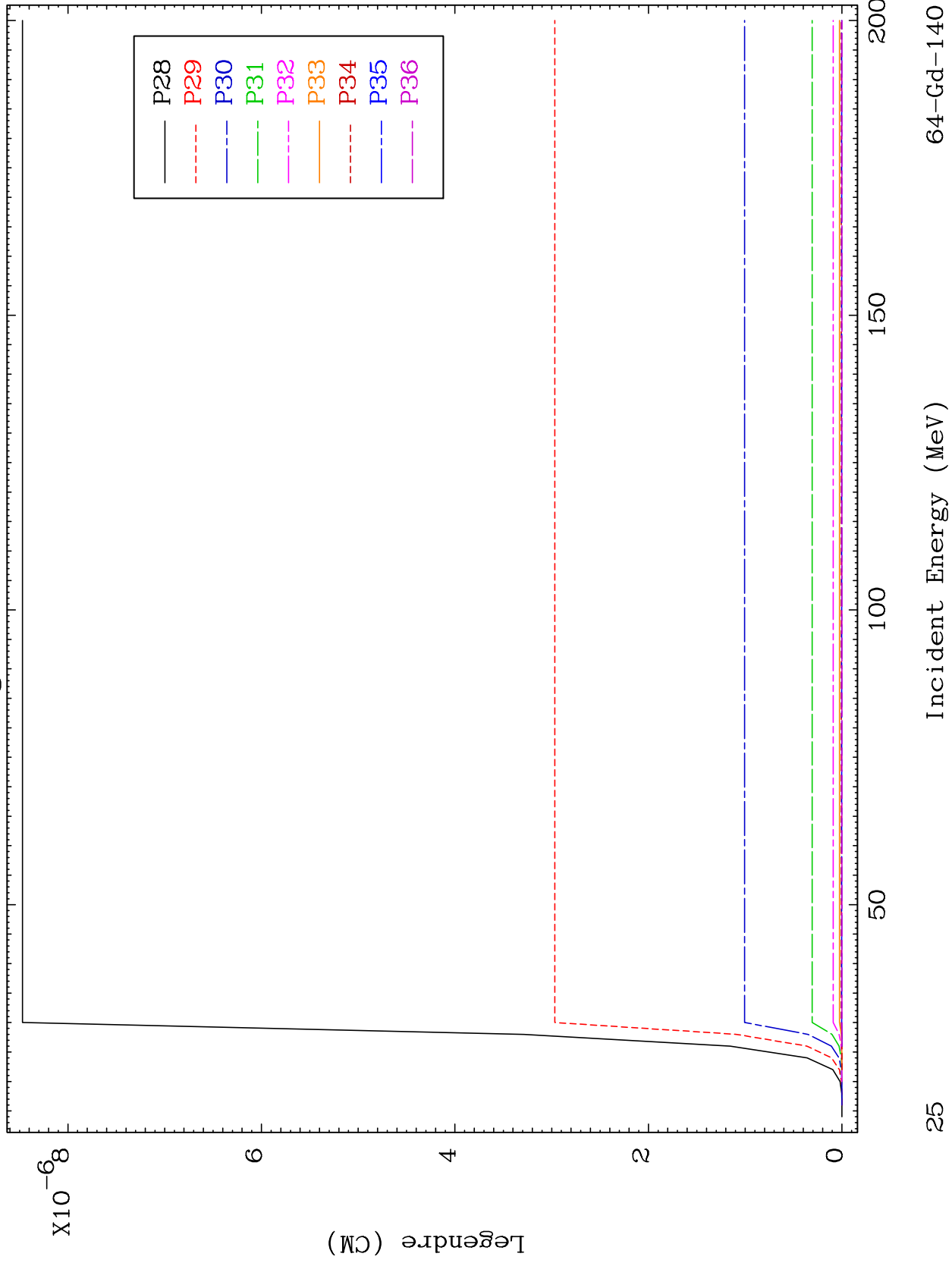
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



25

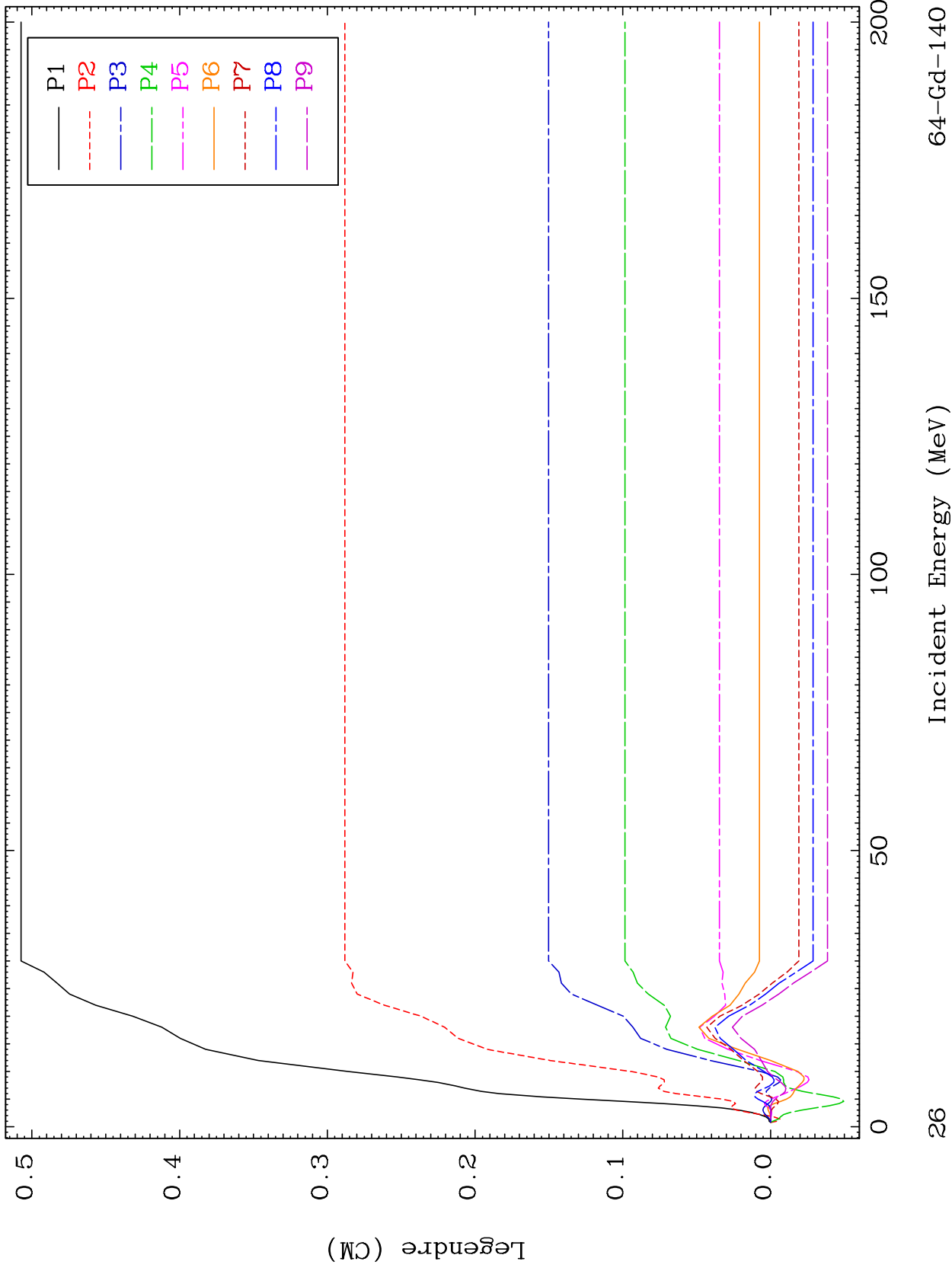
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



26

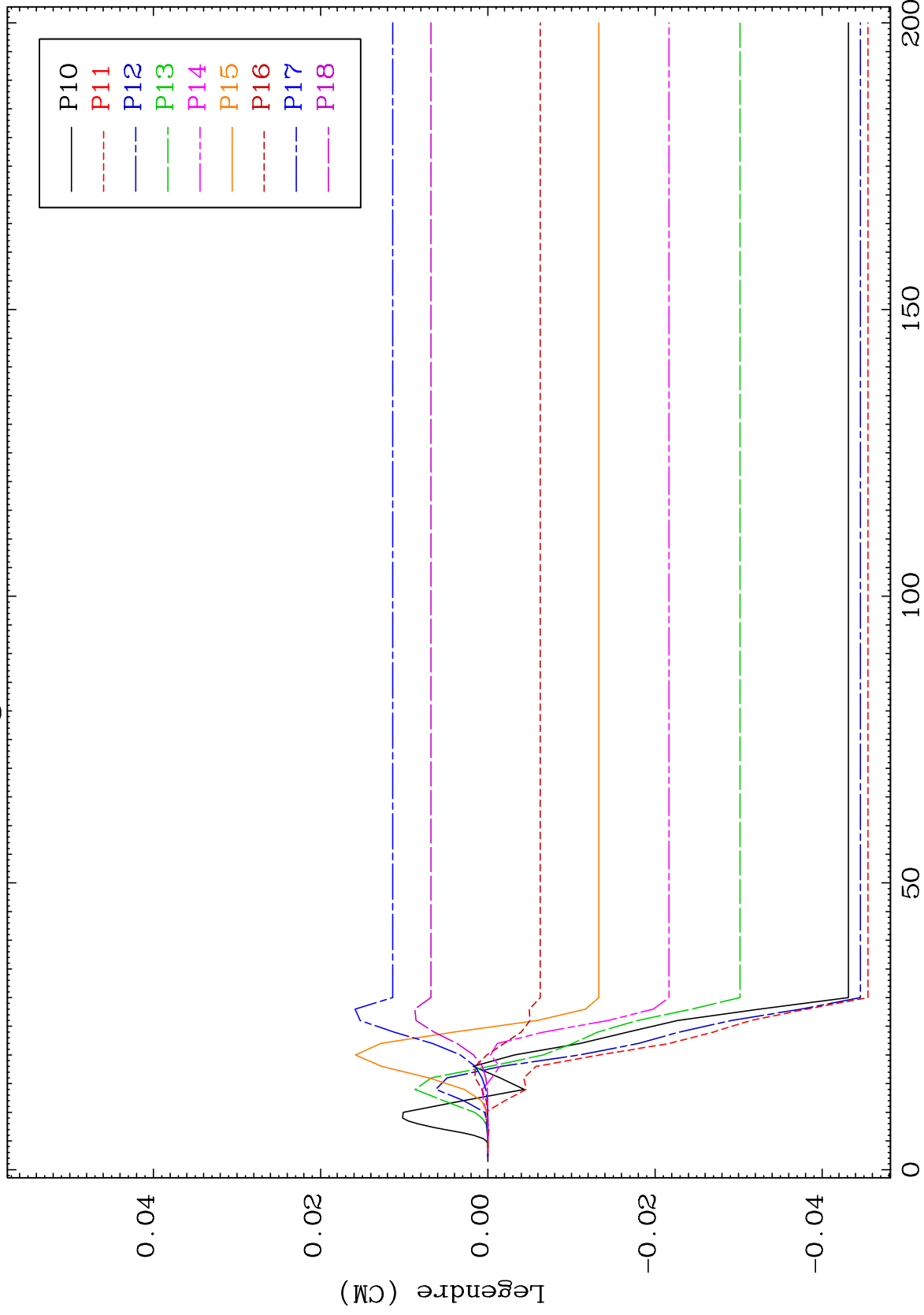
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



27

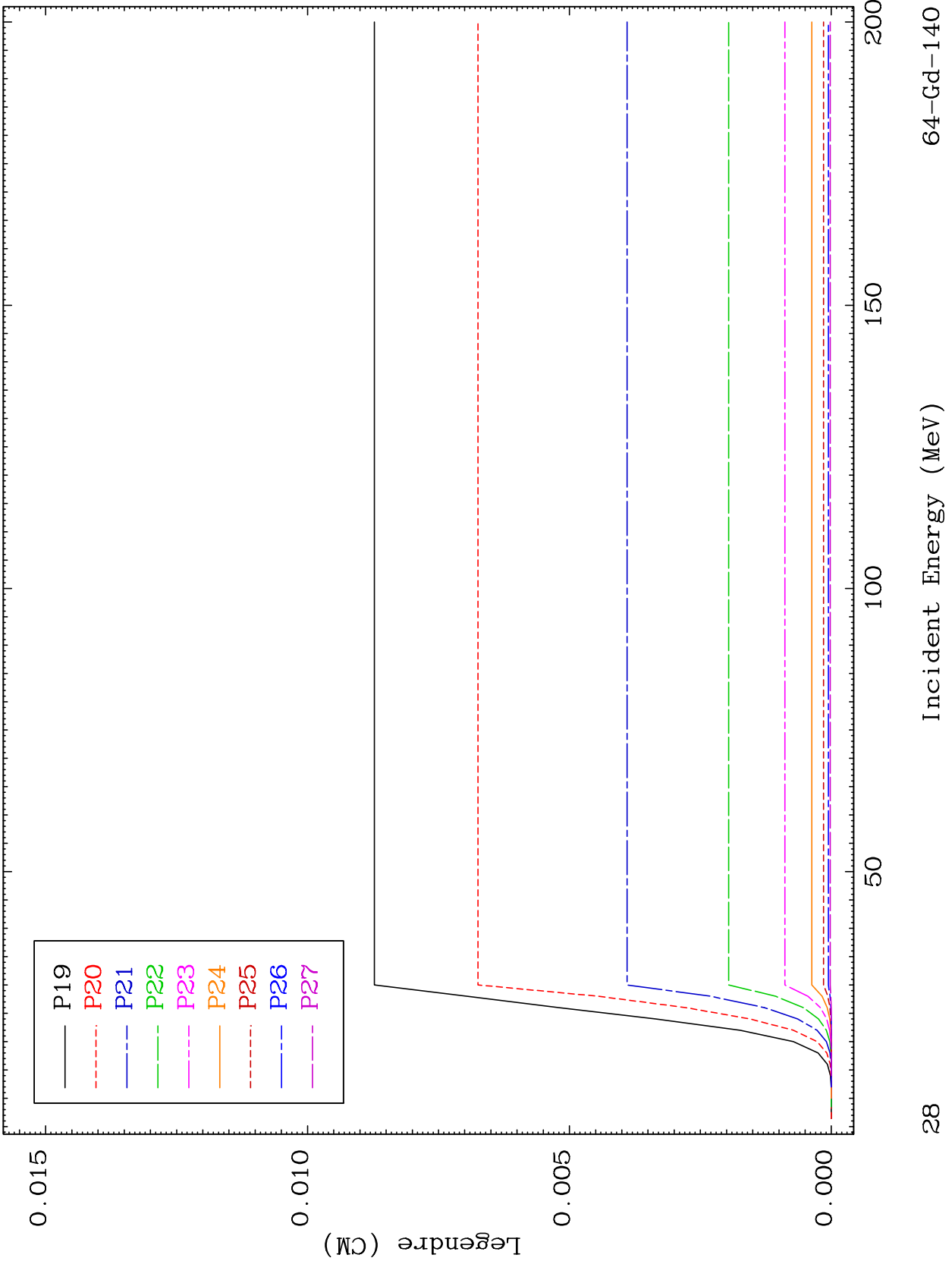
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



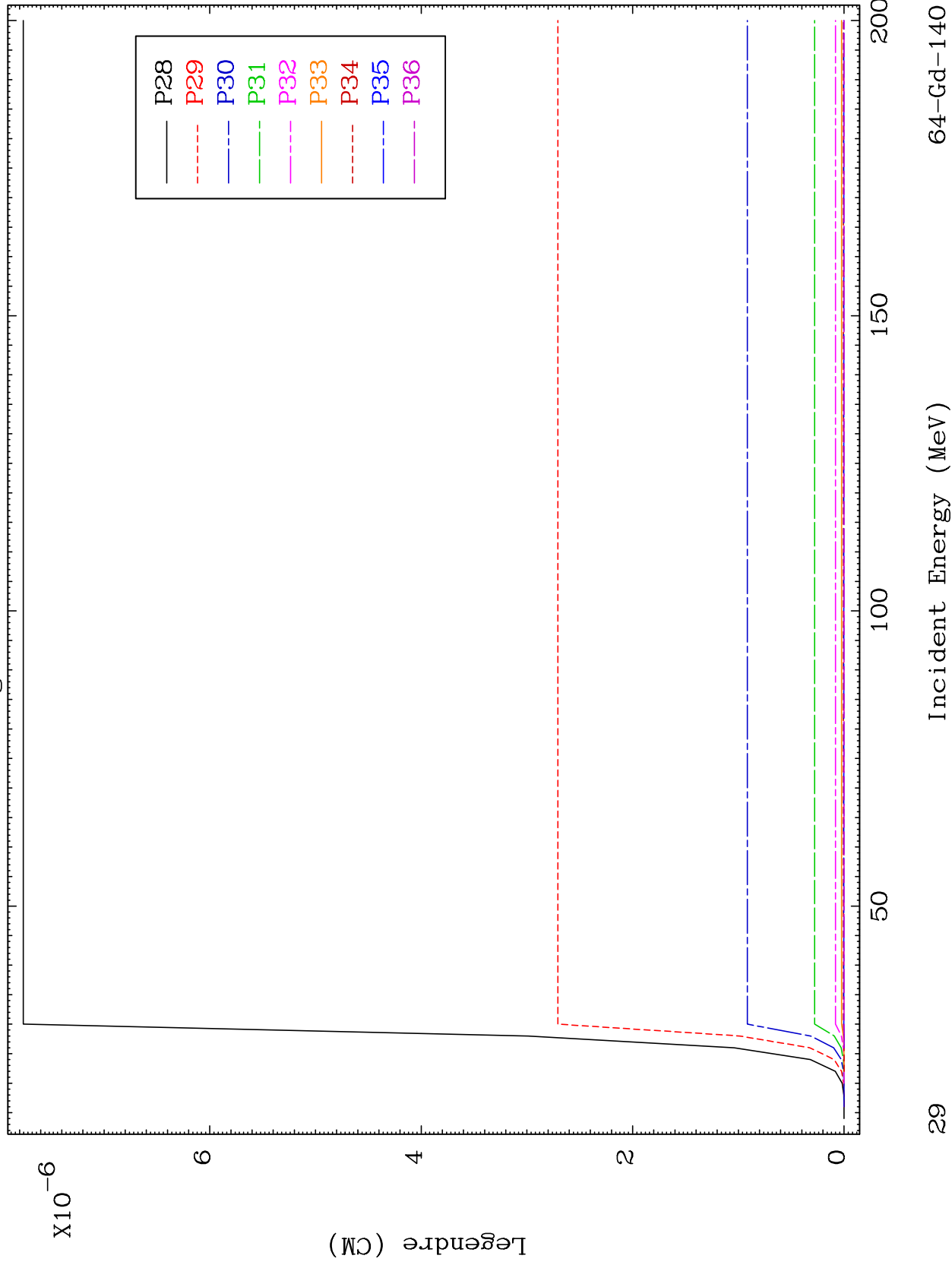
28

64-Gd-140

MAT 6389

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

64-Gd-140



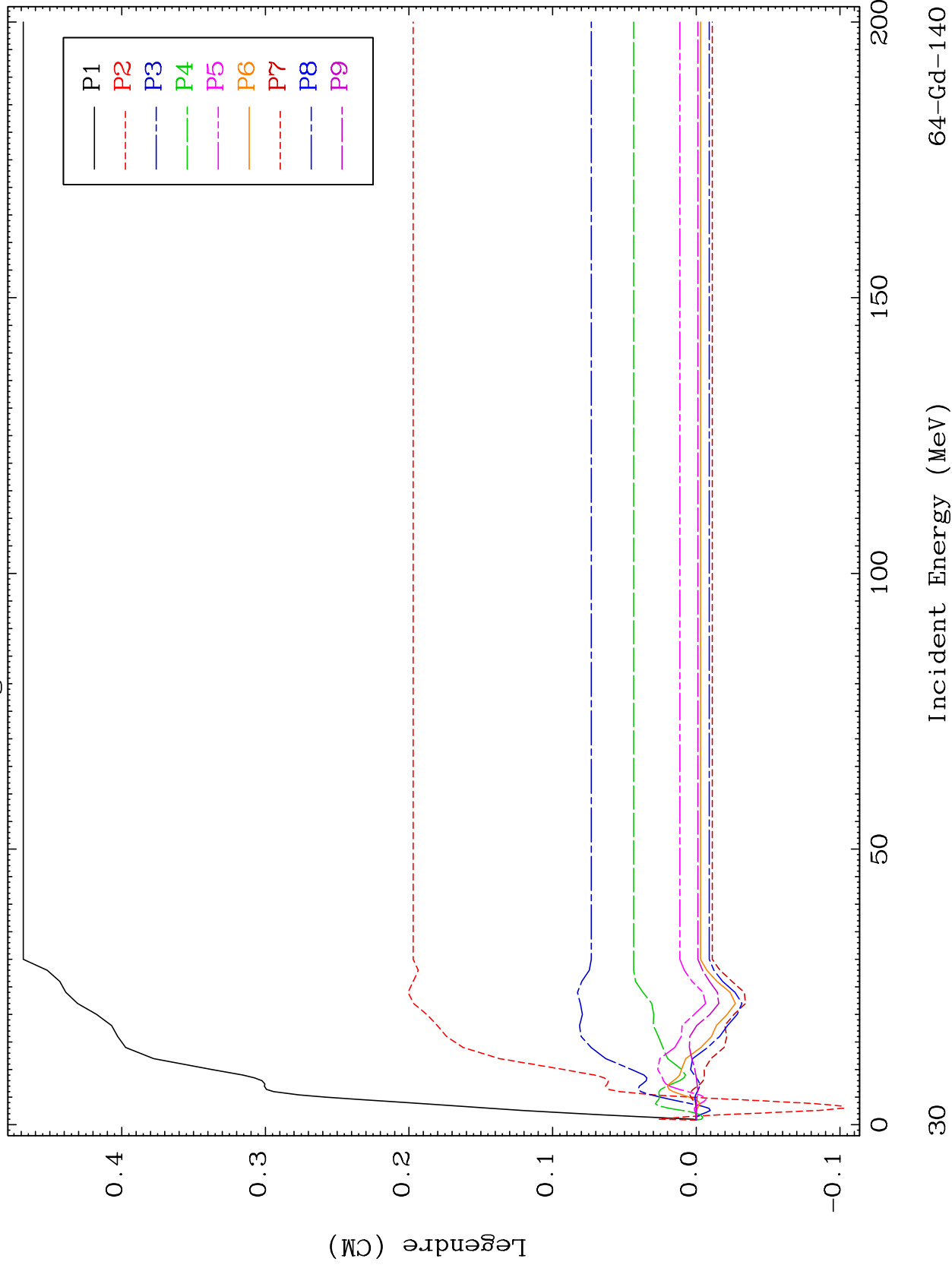
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64-Gd-140

MAT 6389

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

64-Gd-140

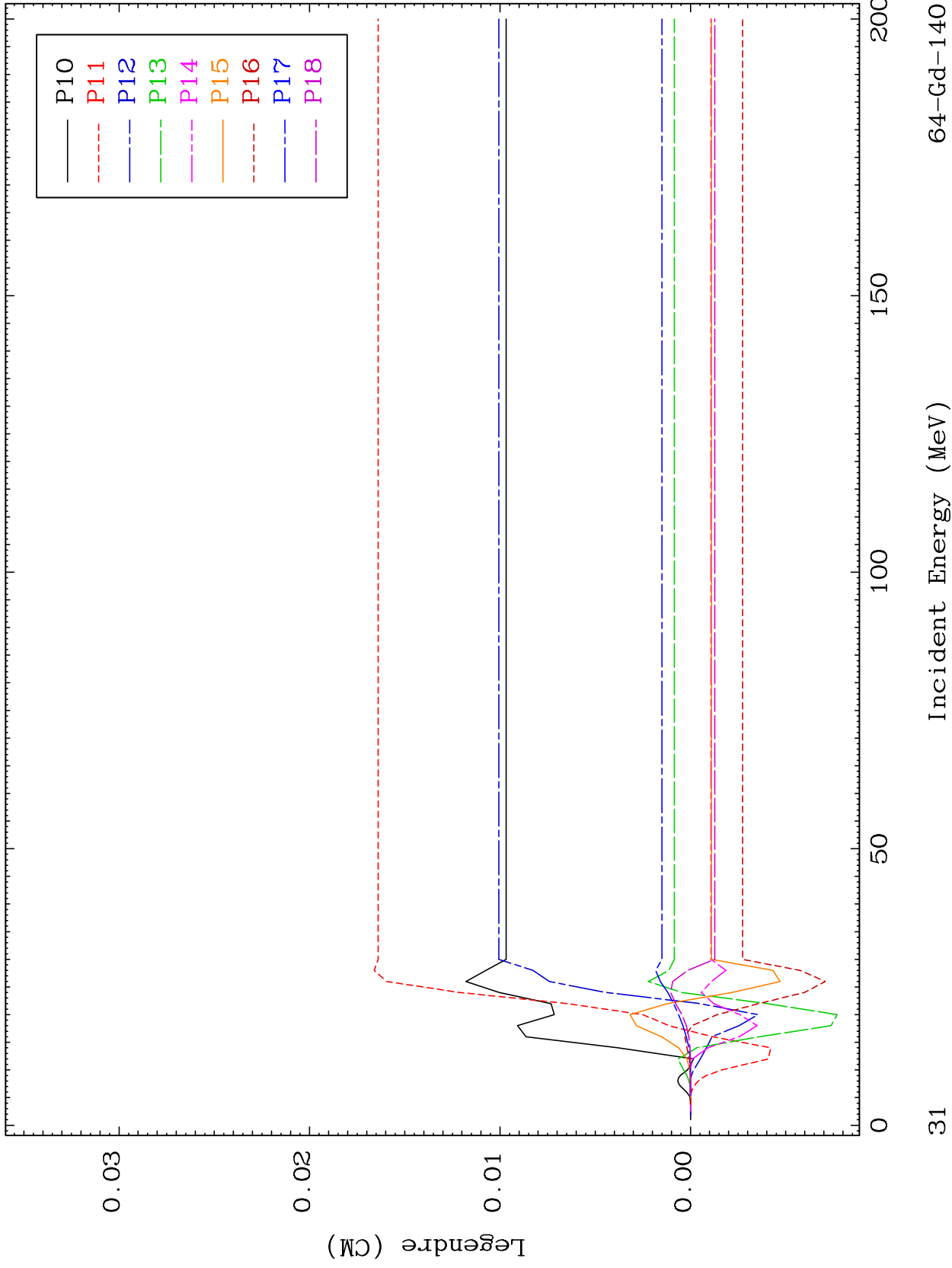


64-Gd-140

MAT 6389

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

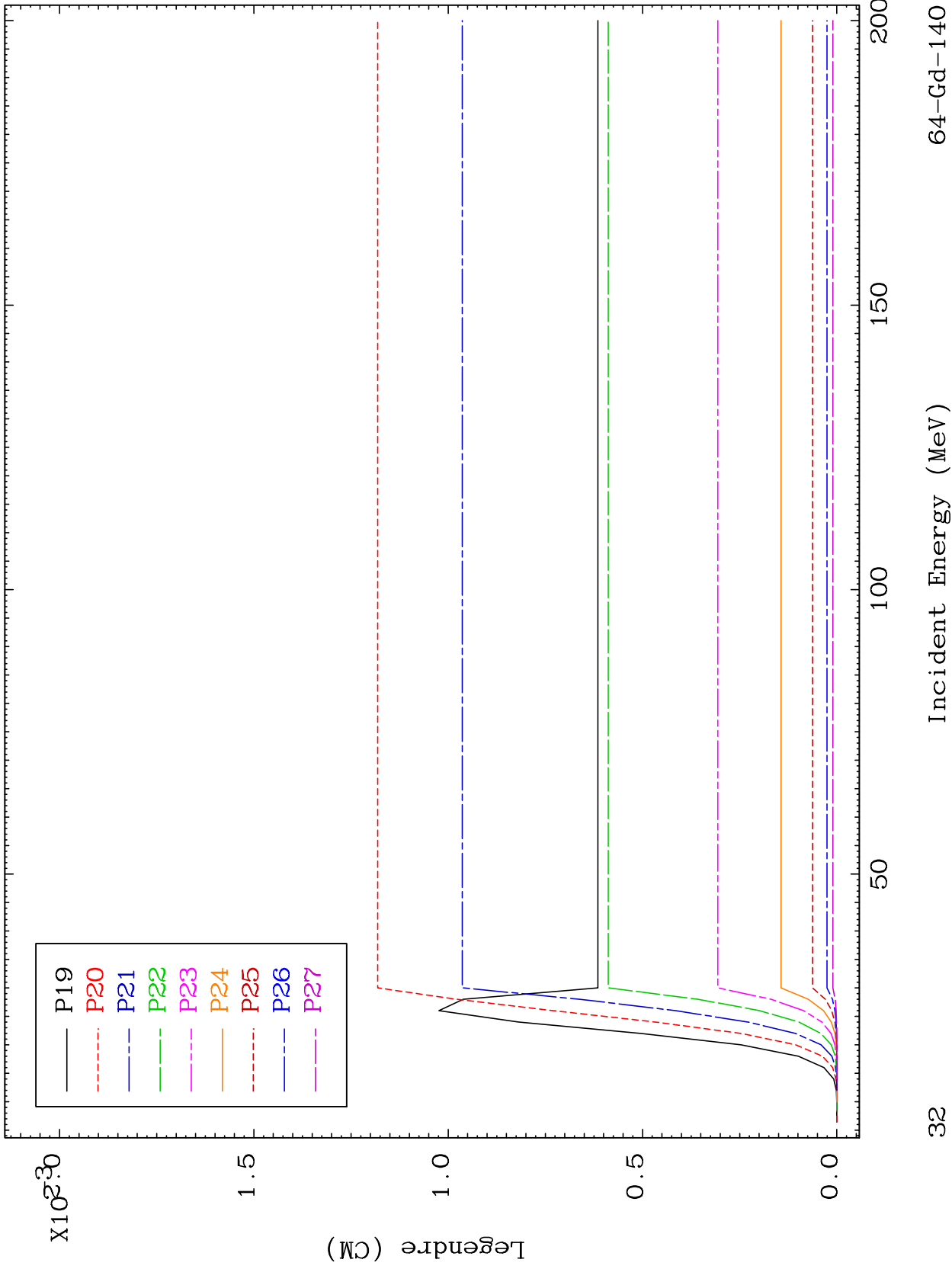
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MAT 6389

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

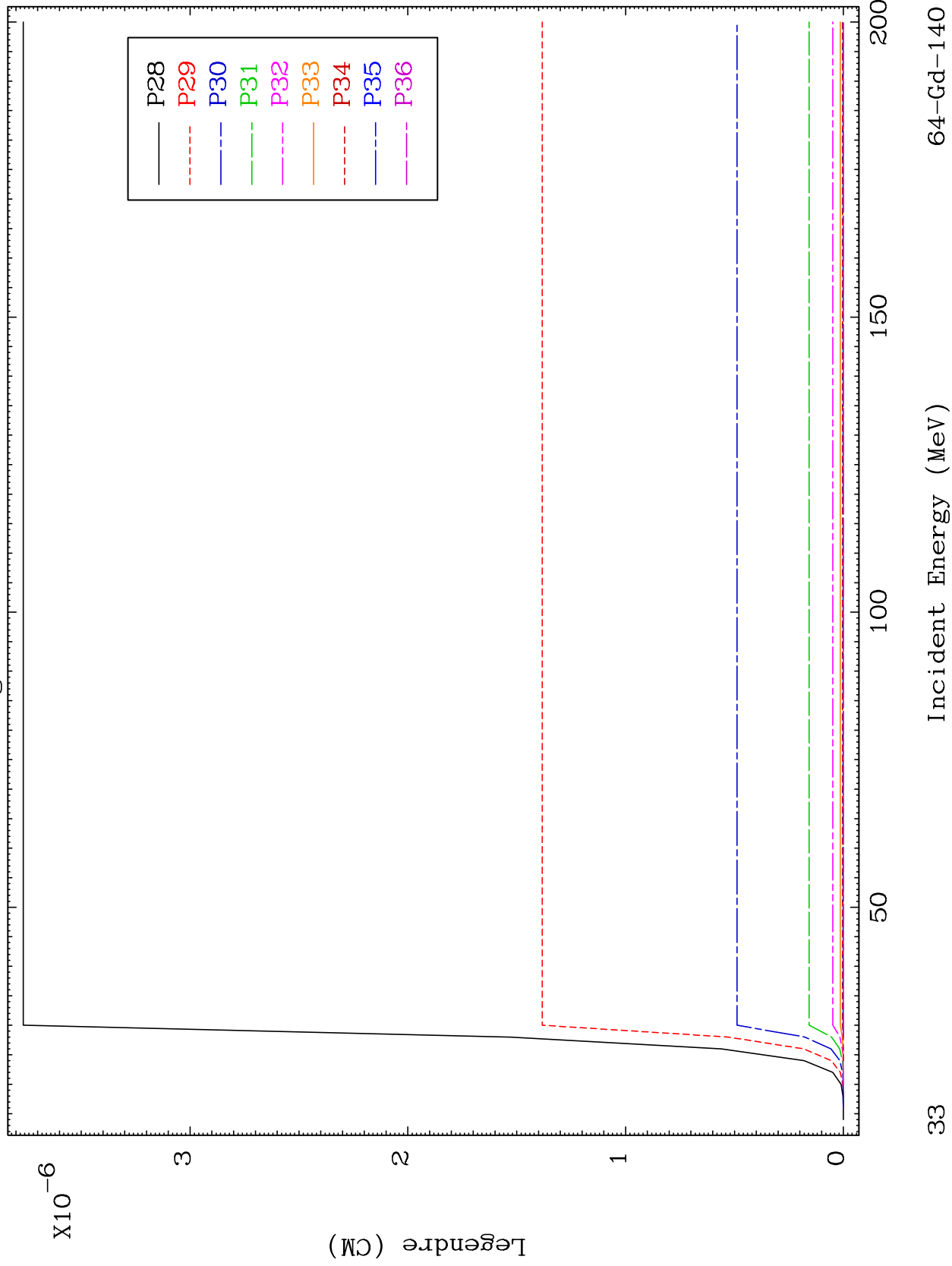
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MAT 6389

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

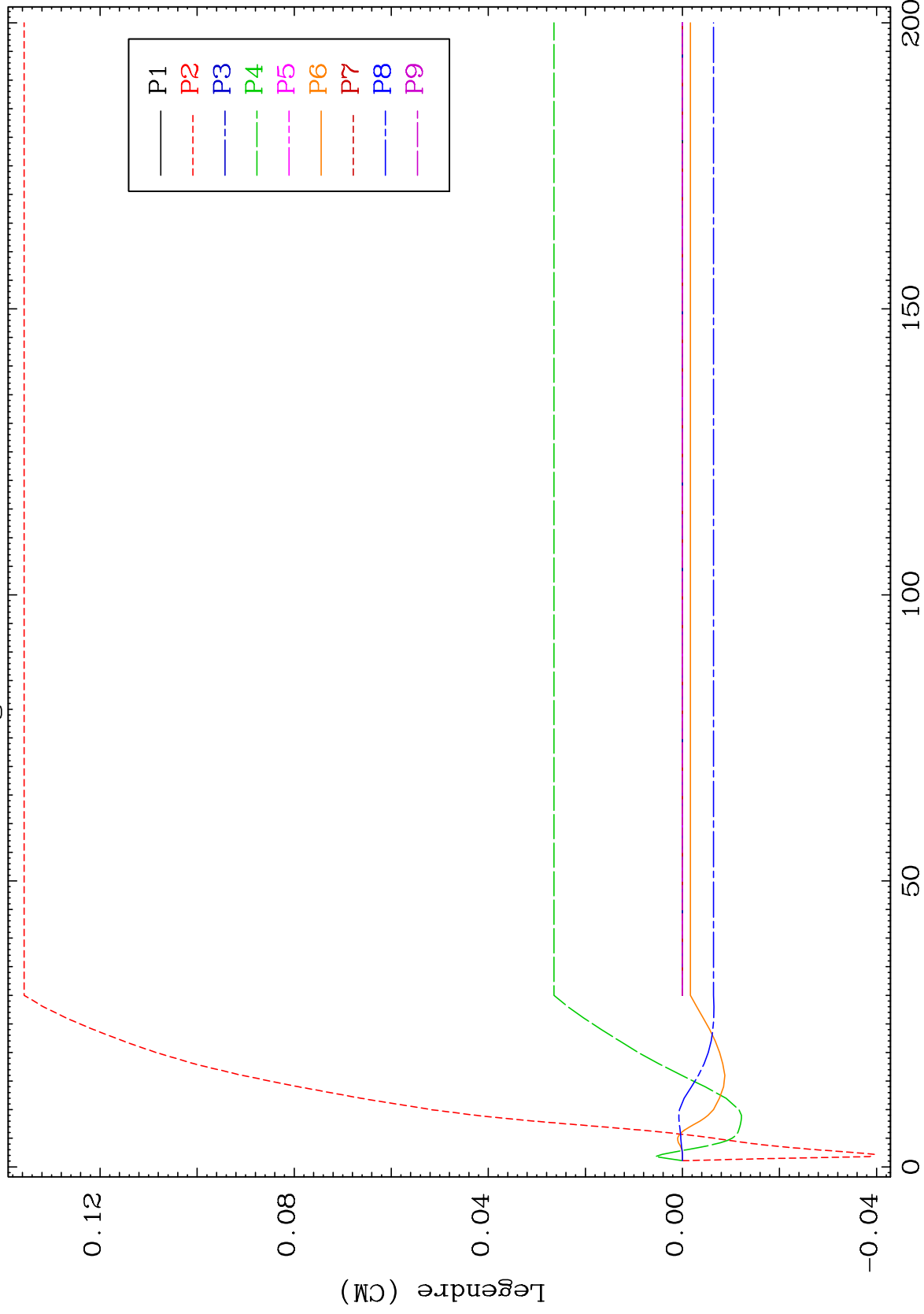
64-Gd-140



MAT 6389

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

64-Gd-140



34

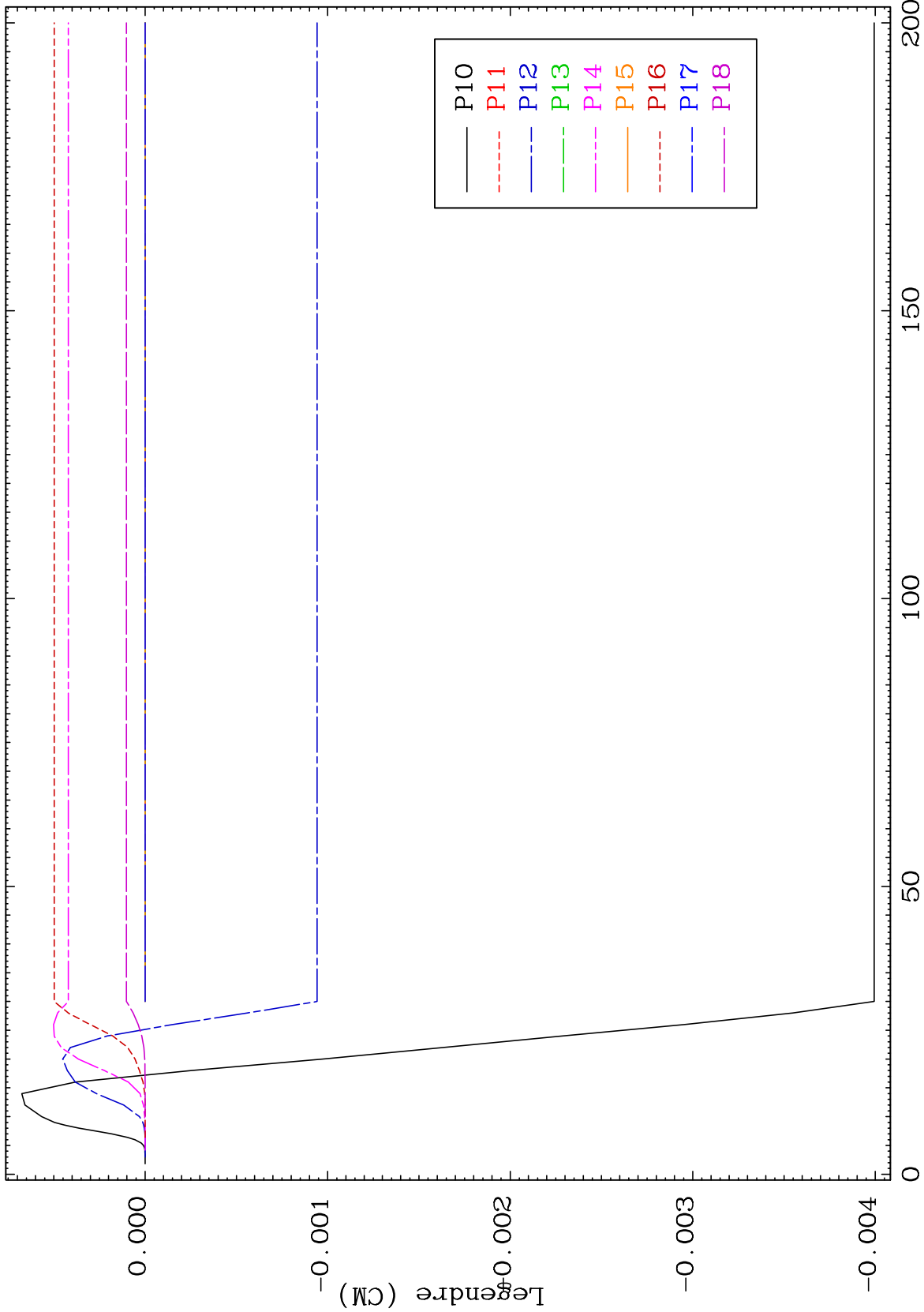
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

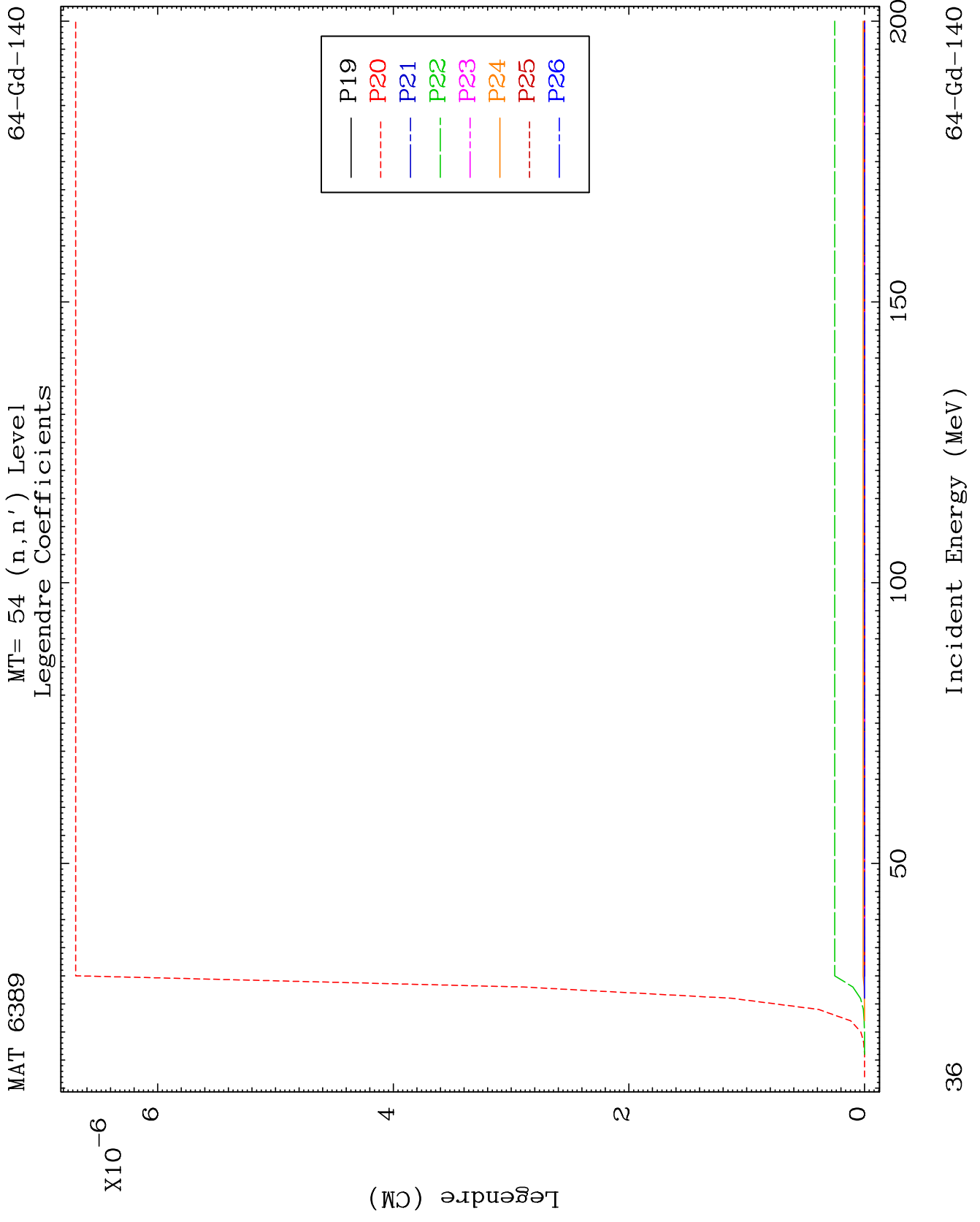
64-Gd-140



35

Incident Energy (MeV)

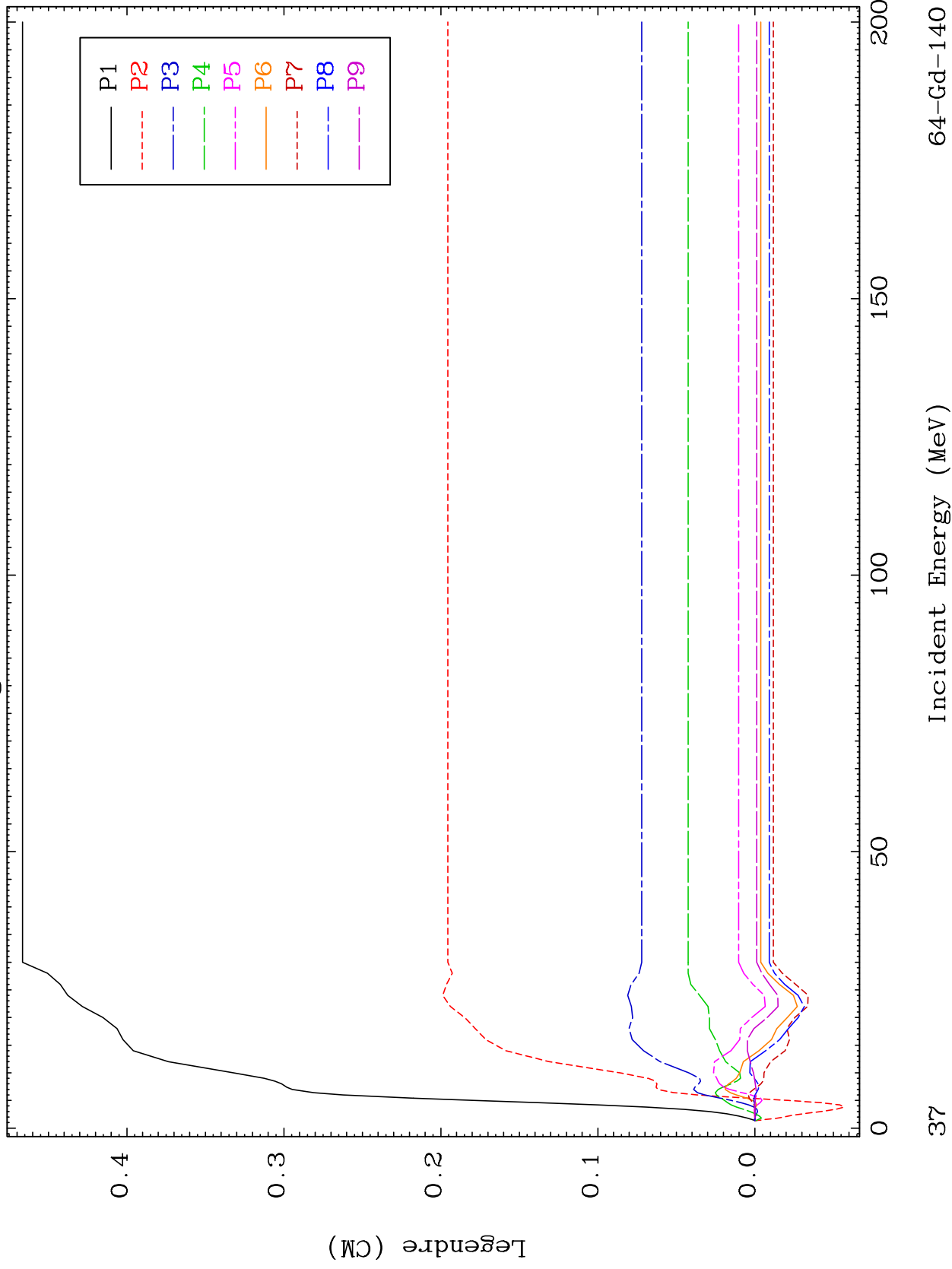
64-Gd-140



MAT 6389

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

64-Gd-140



64-Gd-140

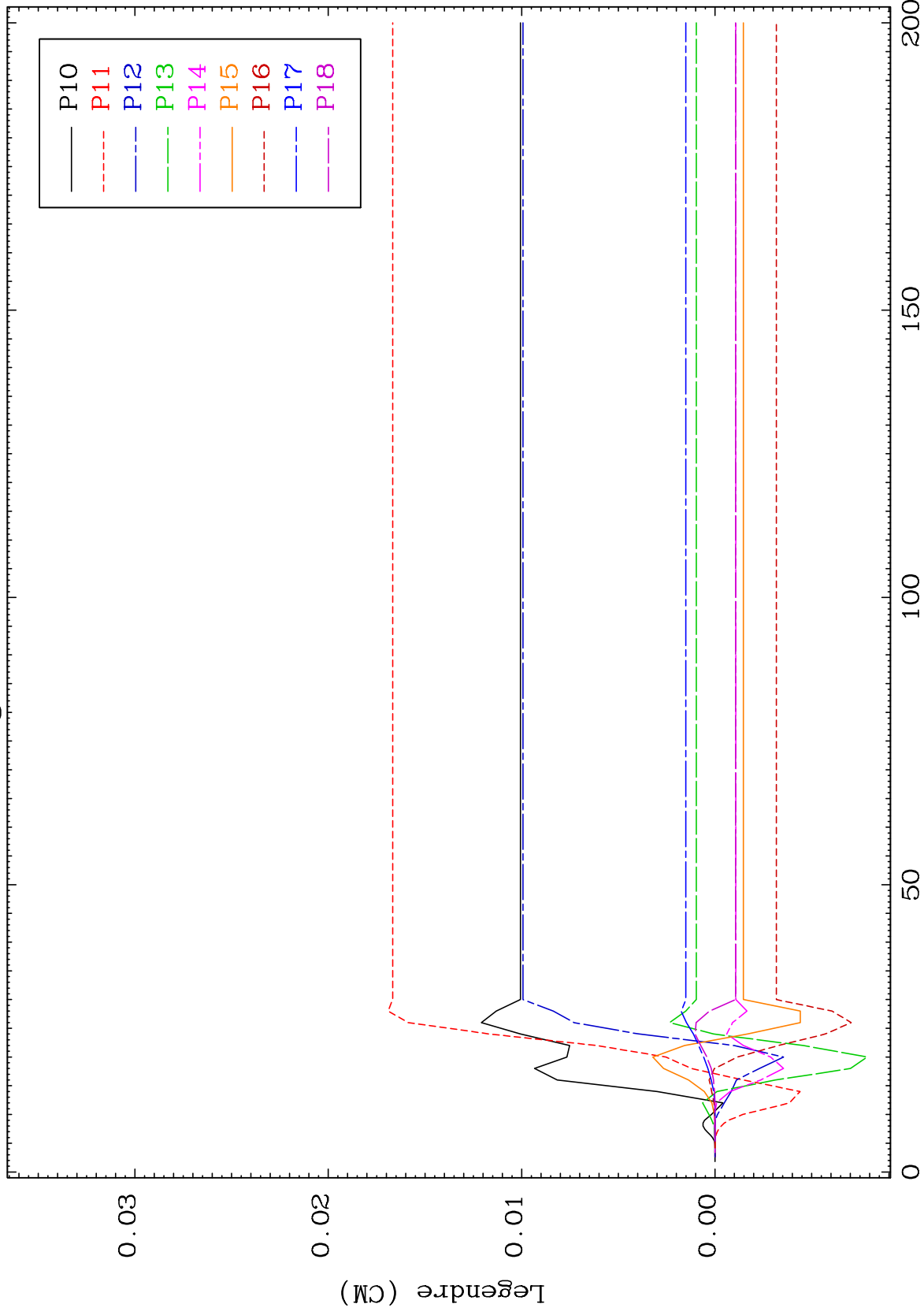
Incident Energy (MeV)

37

MAT 6389

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

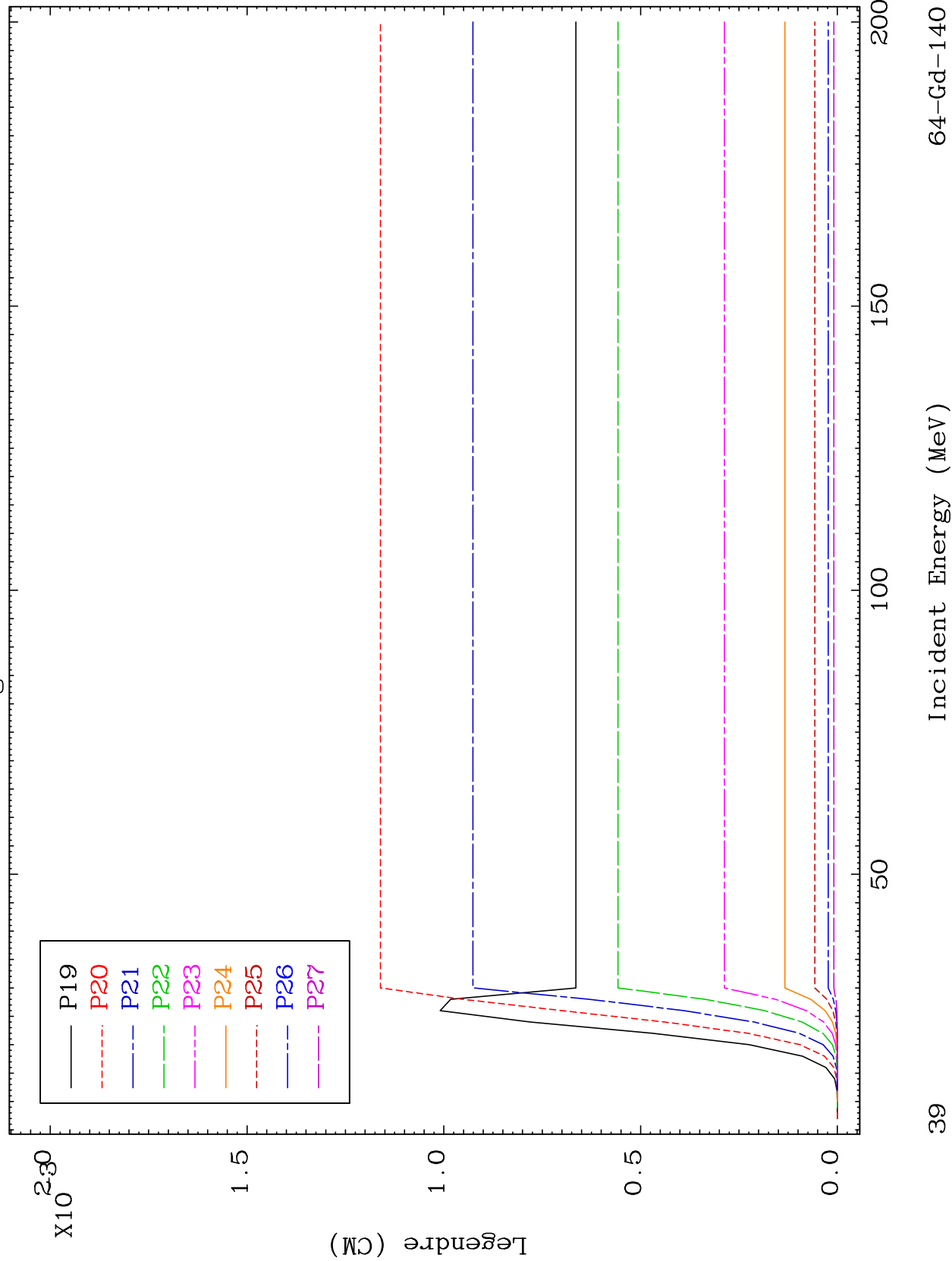
64-Gd-140



38

Incident Energy (MeV)

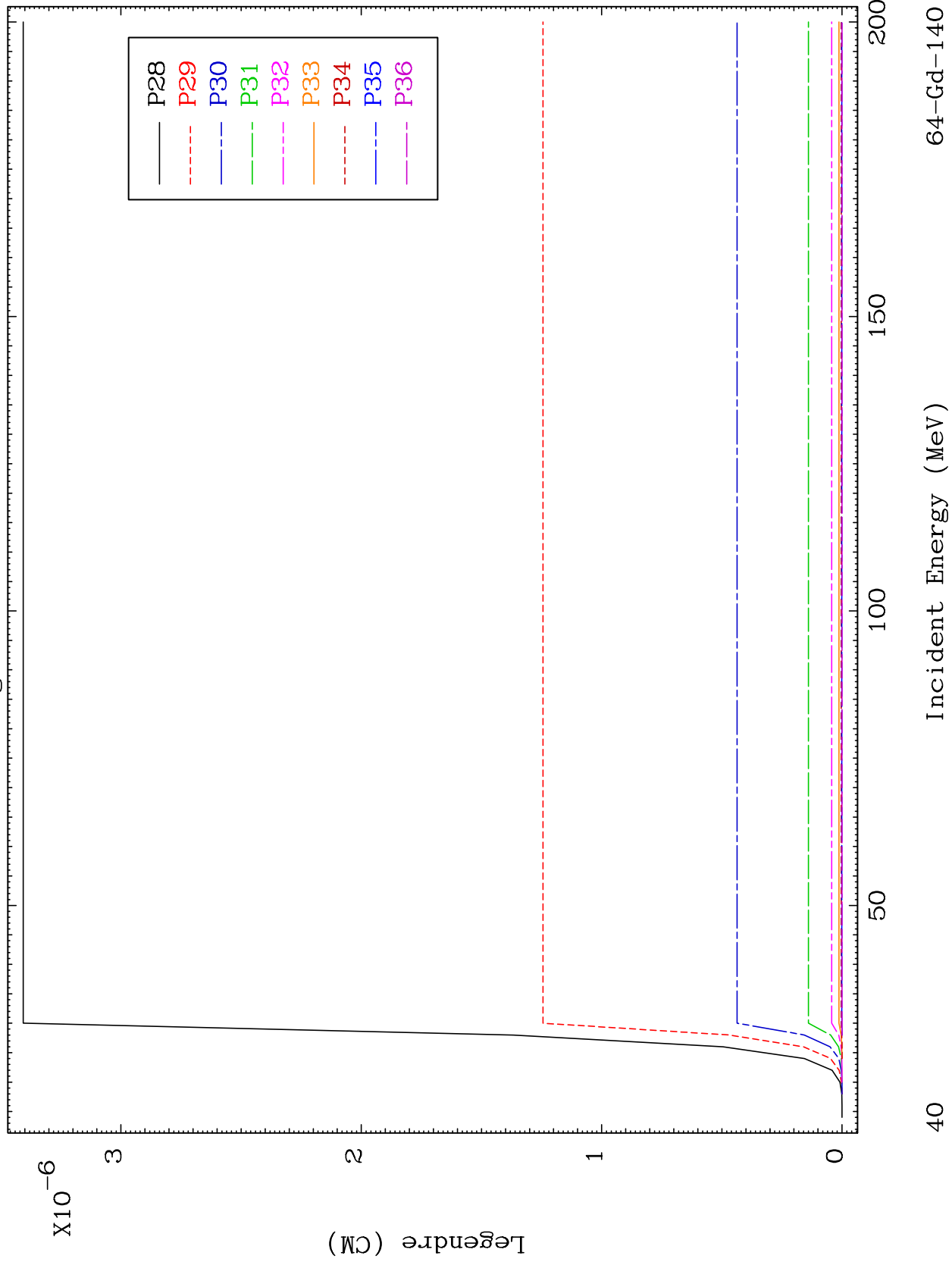
64-Gd-140



MAT 6389

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

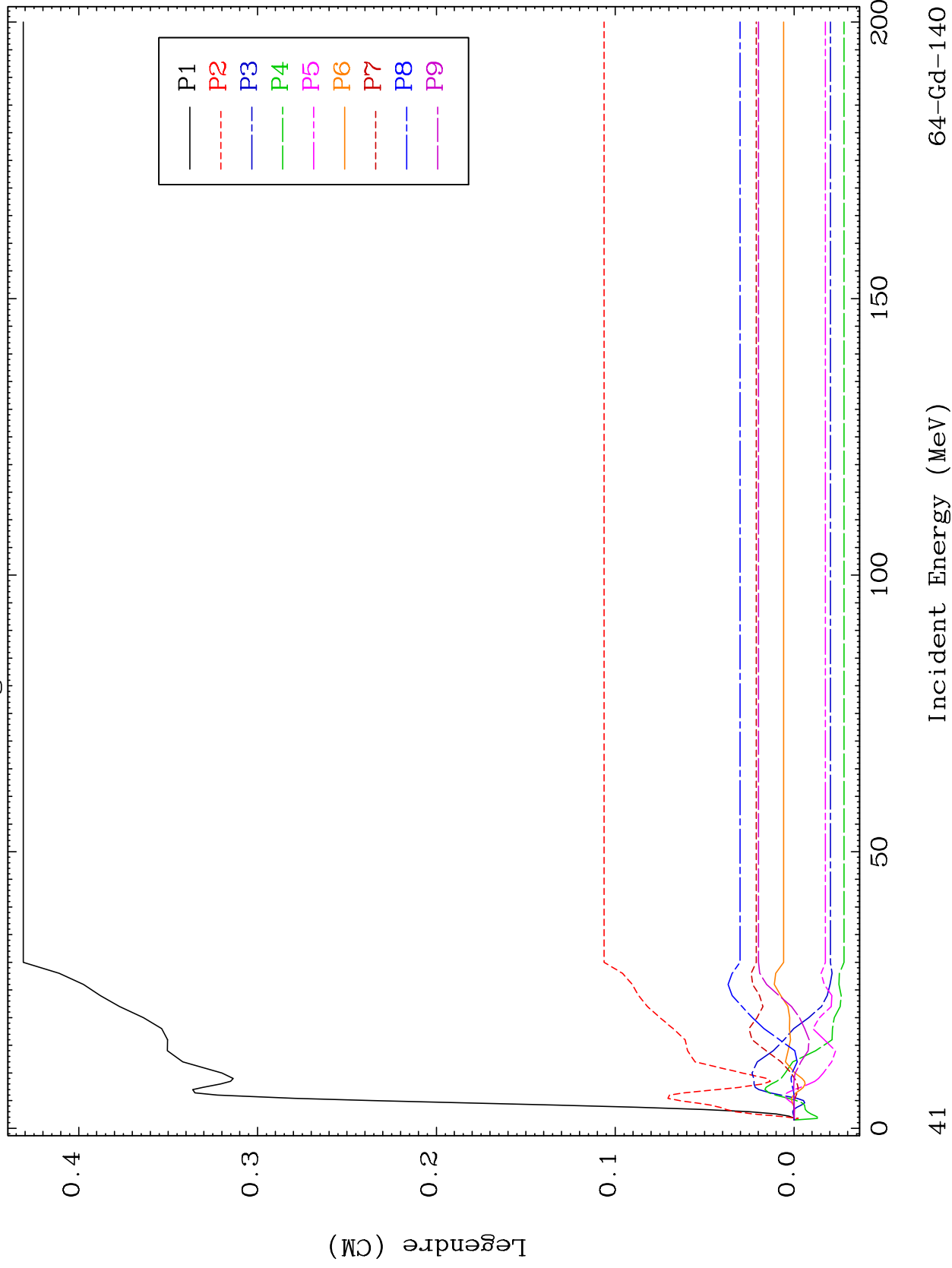
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MAT 6389

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

64-Gd-140



41

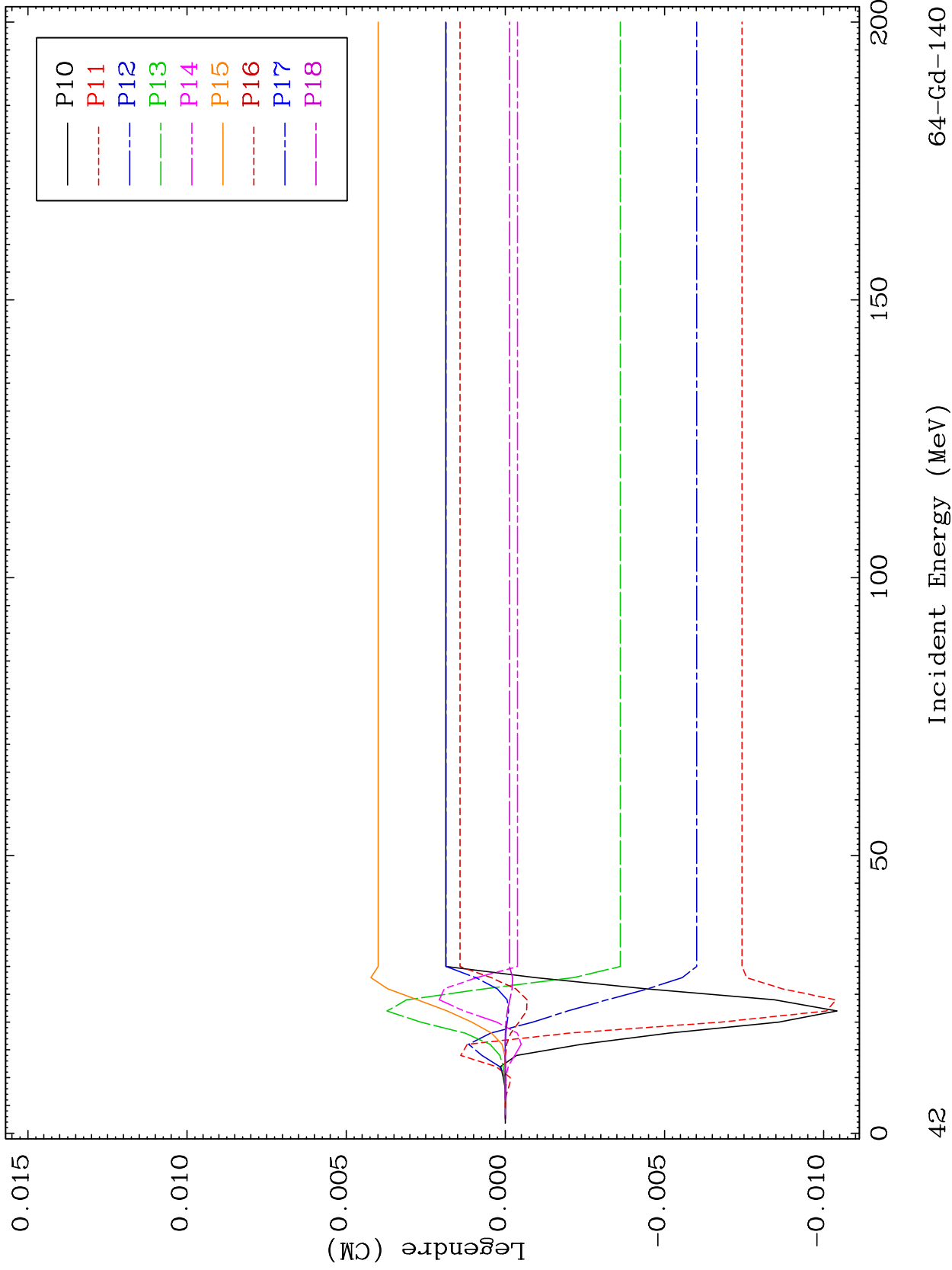
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



42

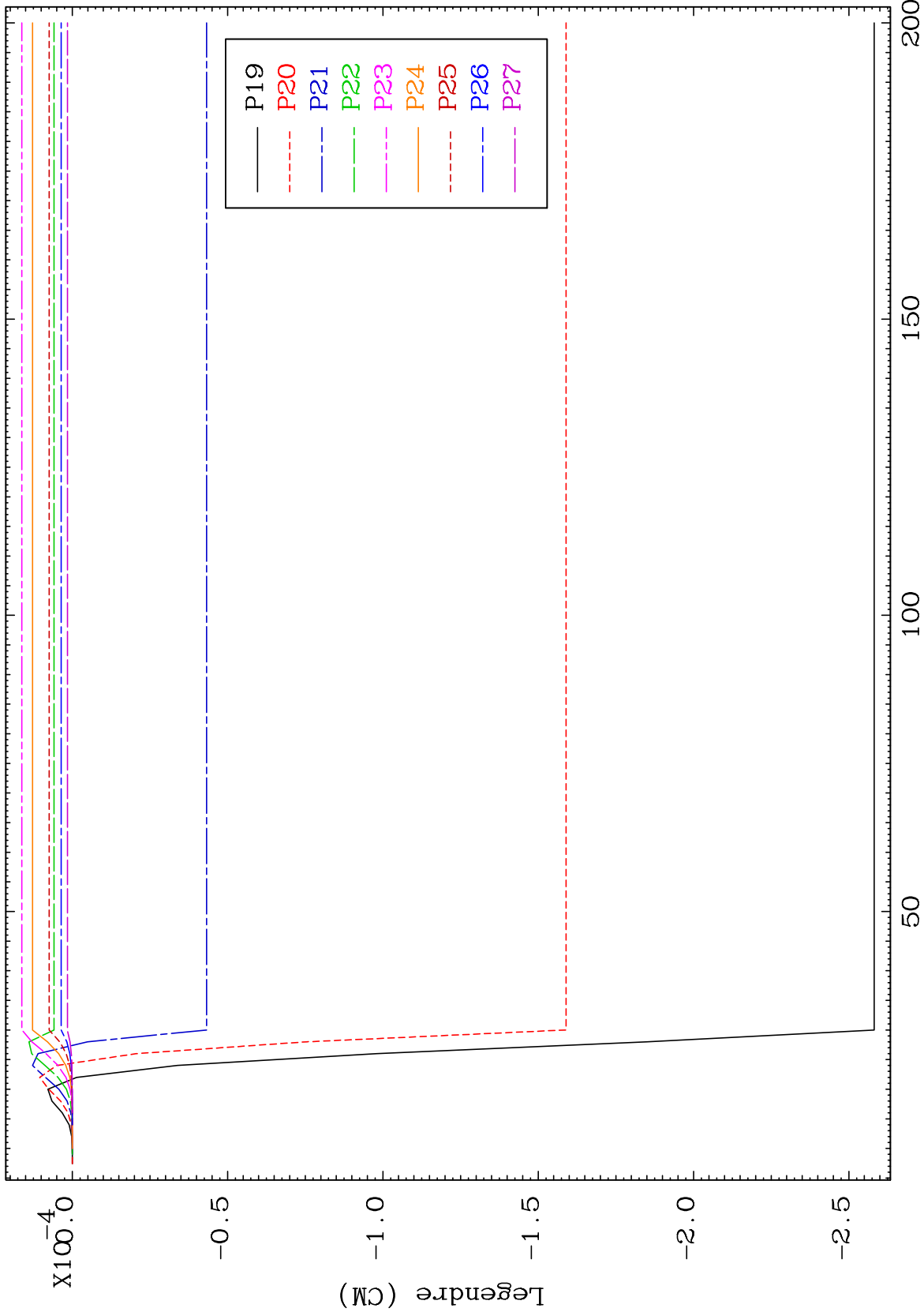
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

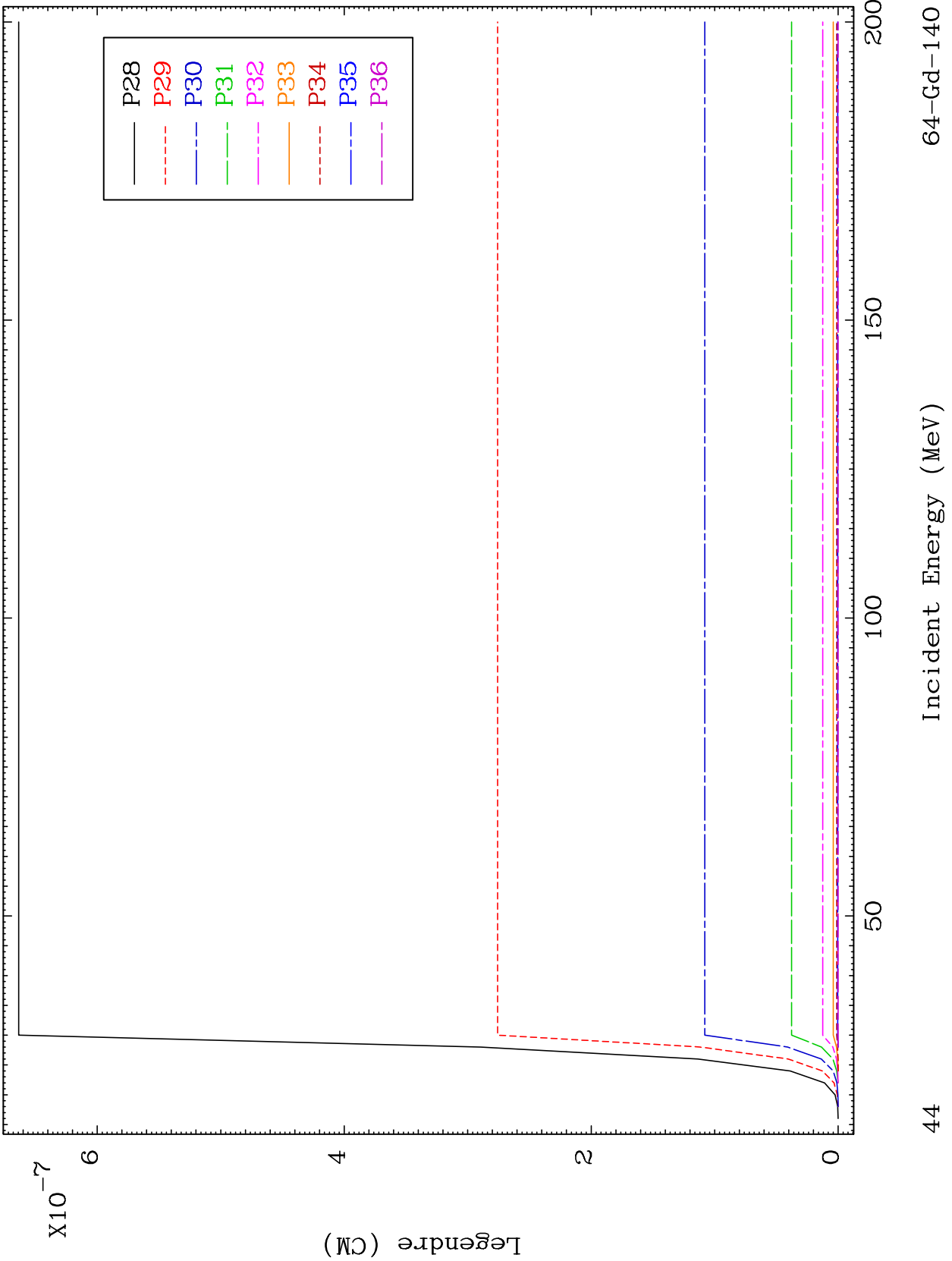
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MAT 6389

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

64-Gd-140



44

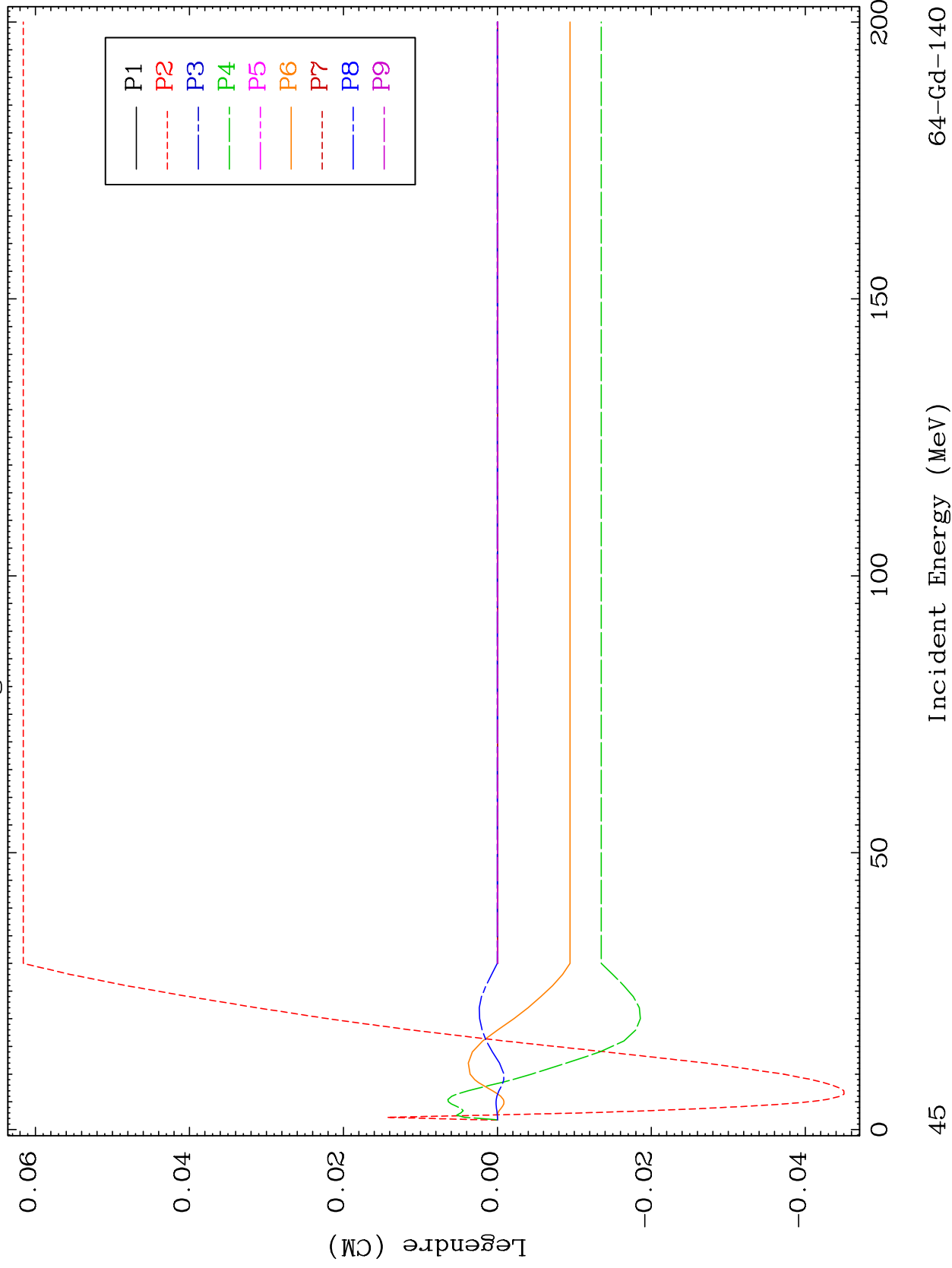
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



64-Gd-140

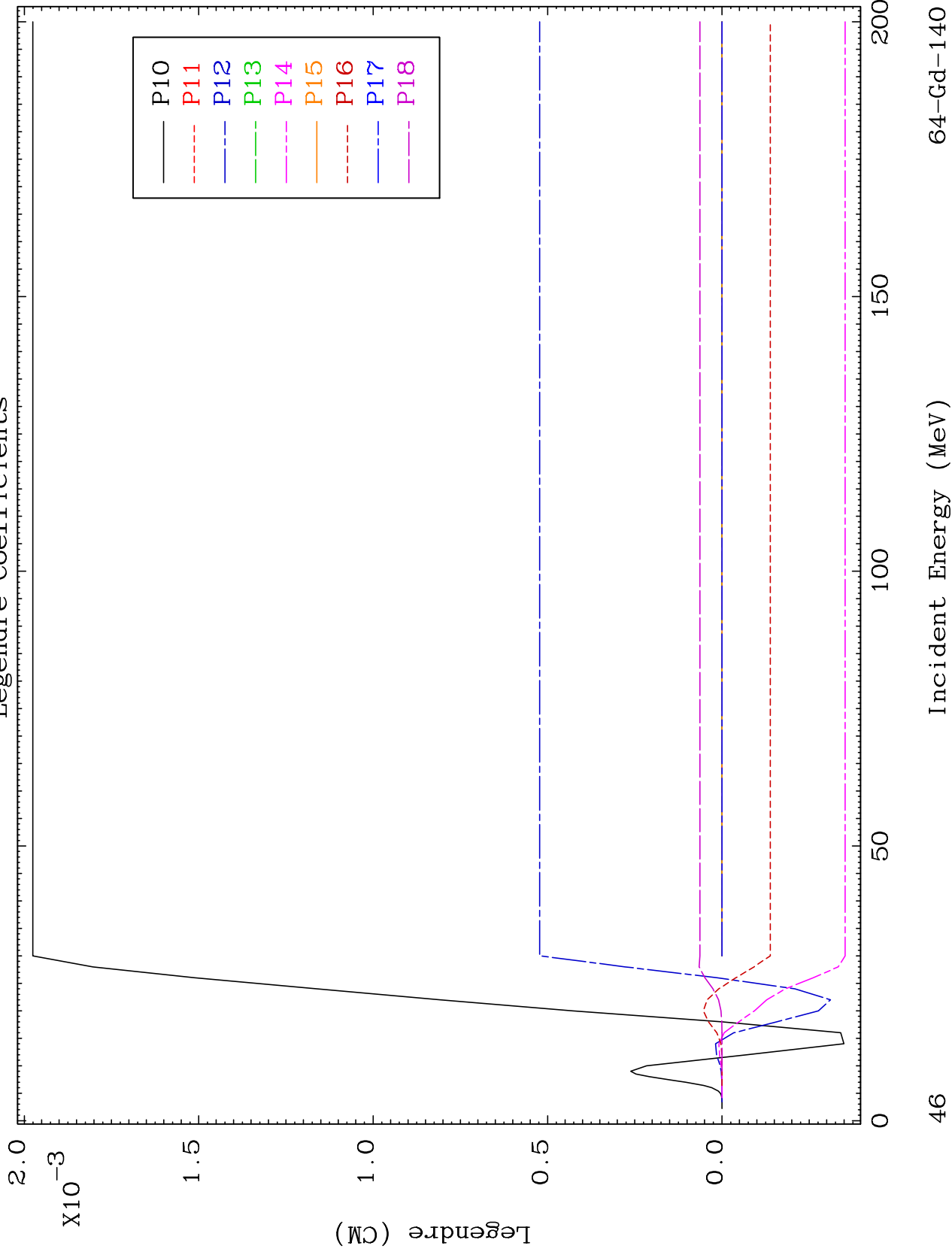
Incident Energy (MeV)

45

MAT 6389

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

64-Gd-140



46

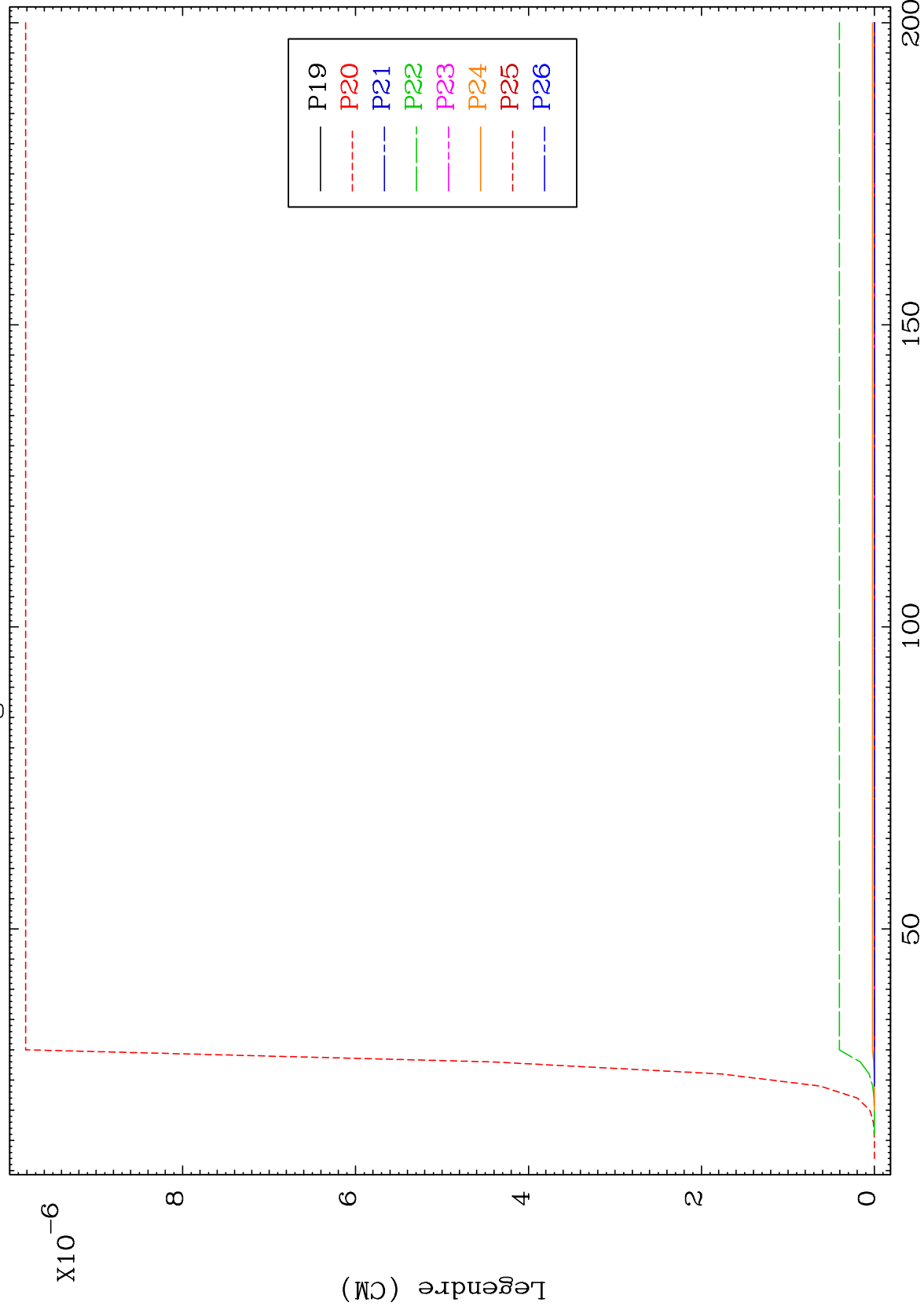
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



64-Gd-140

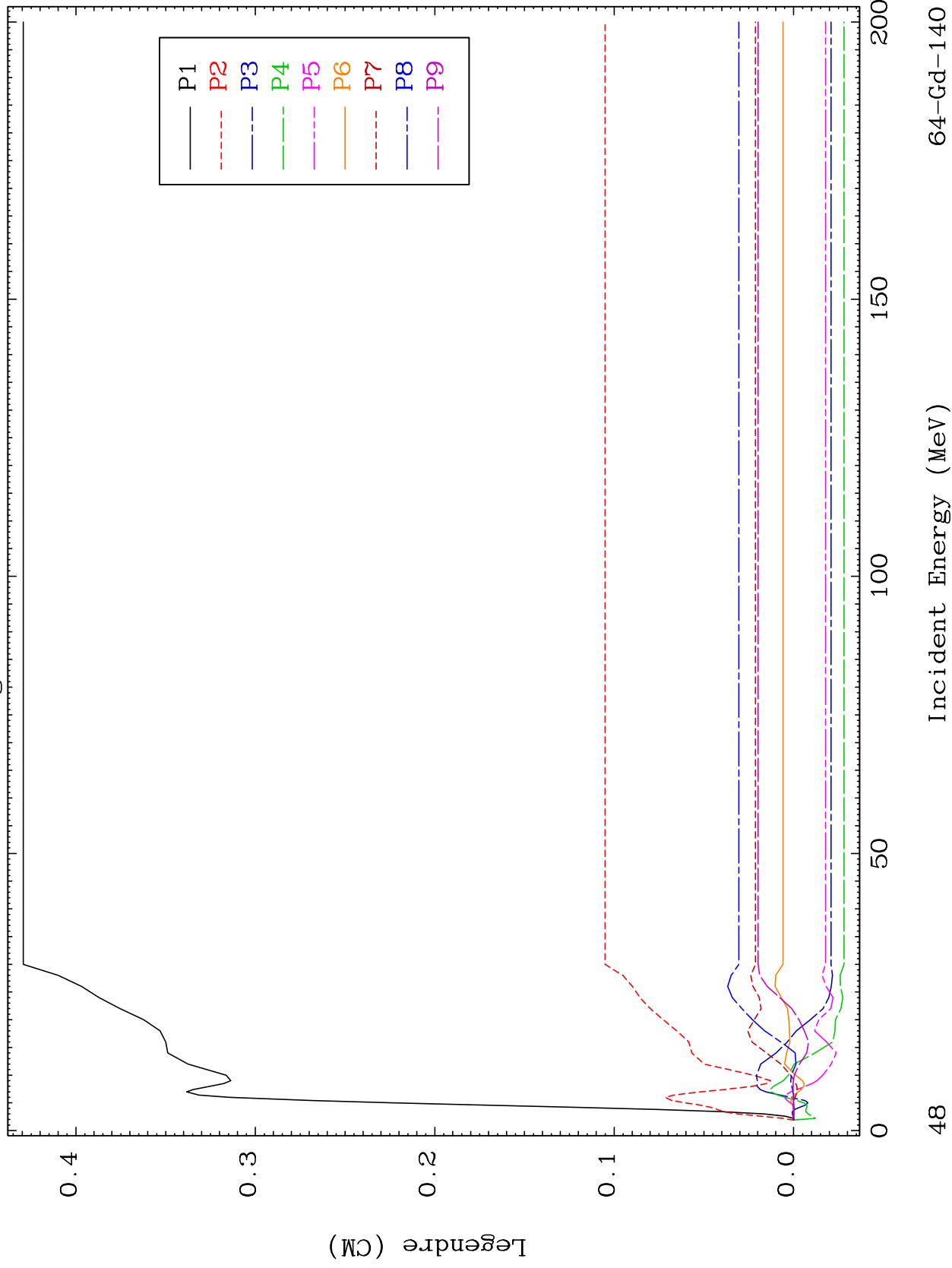
Incident Energy (MeV)

47

MAT 6389

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

64-Gd-140



64-Gd-140

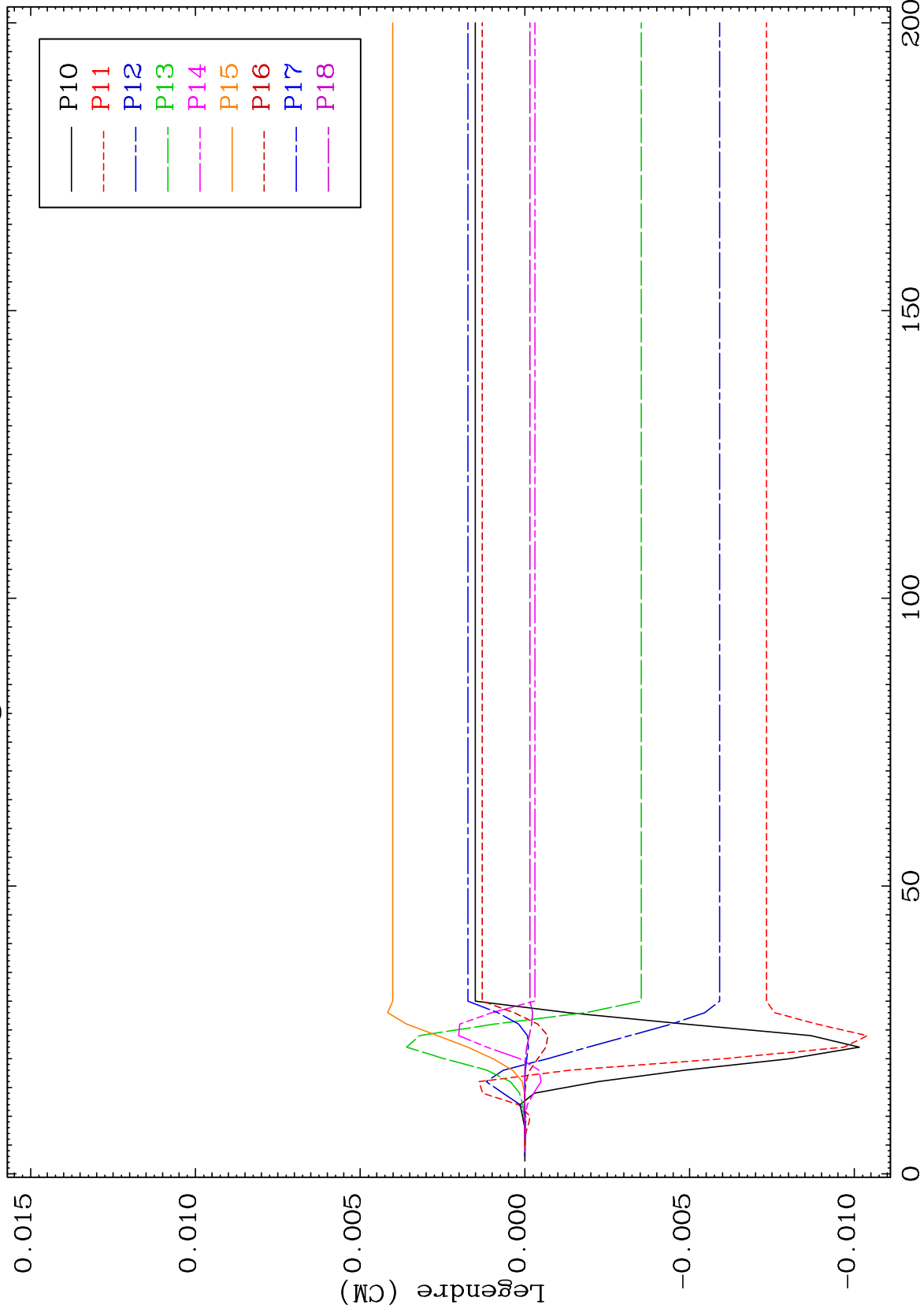
Incident Energy (MeV)

48

MAT 6389

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

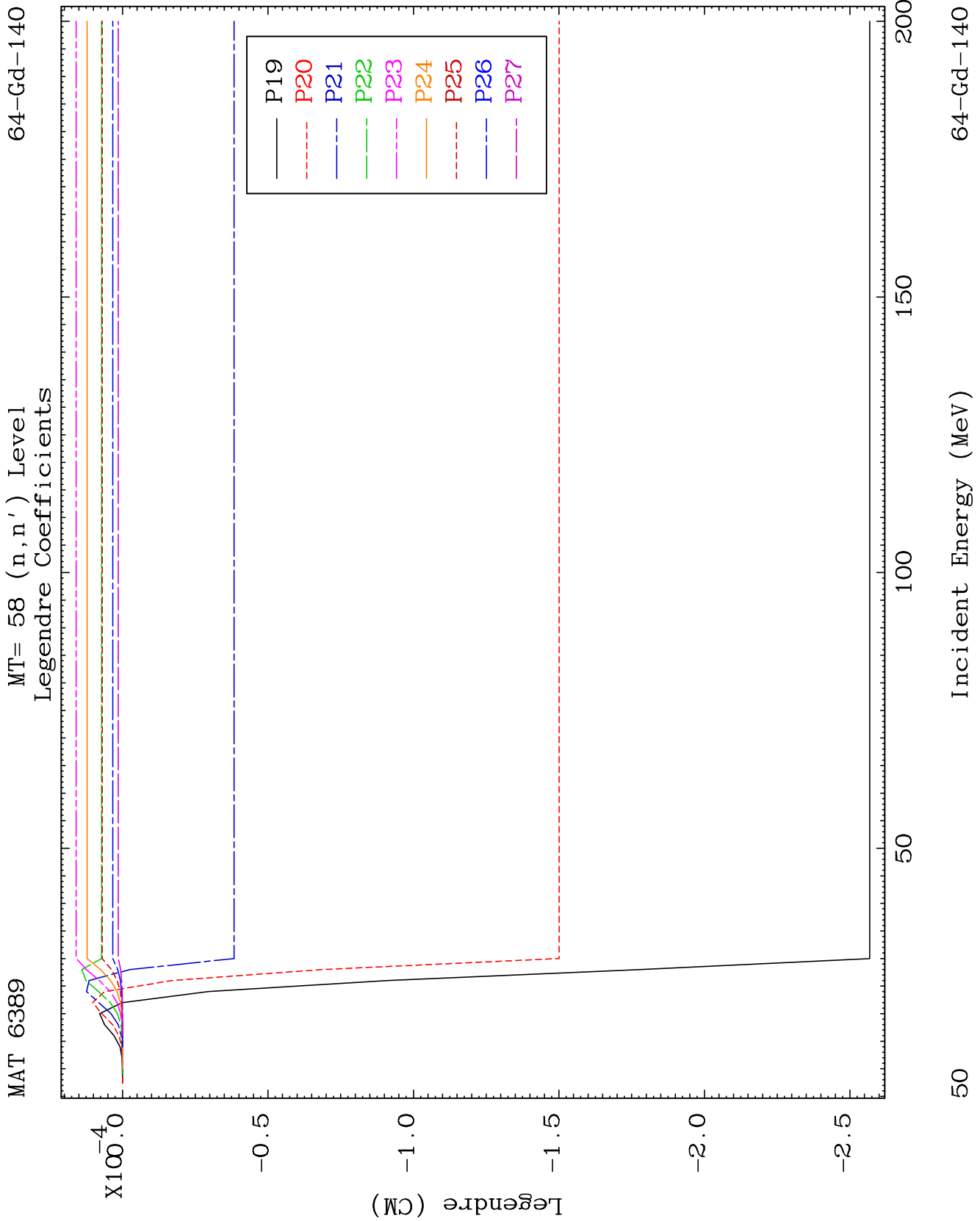
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49

Incident Energy (MeV)

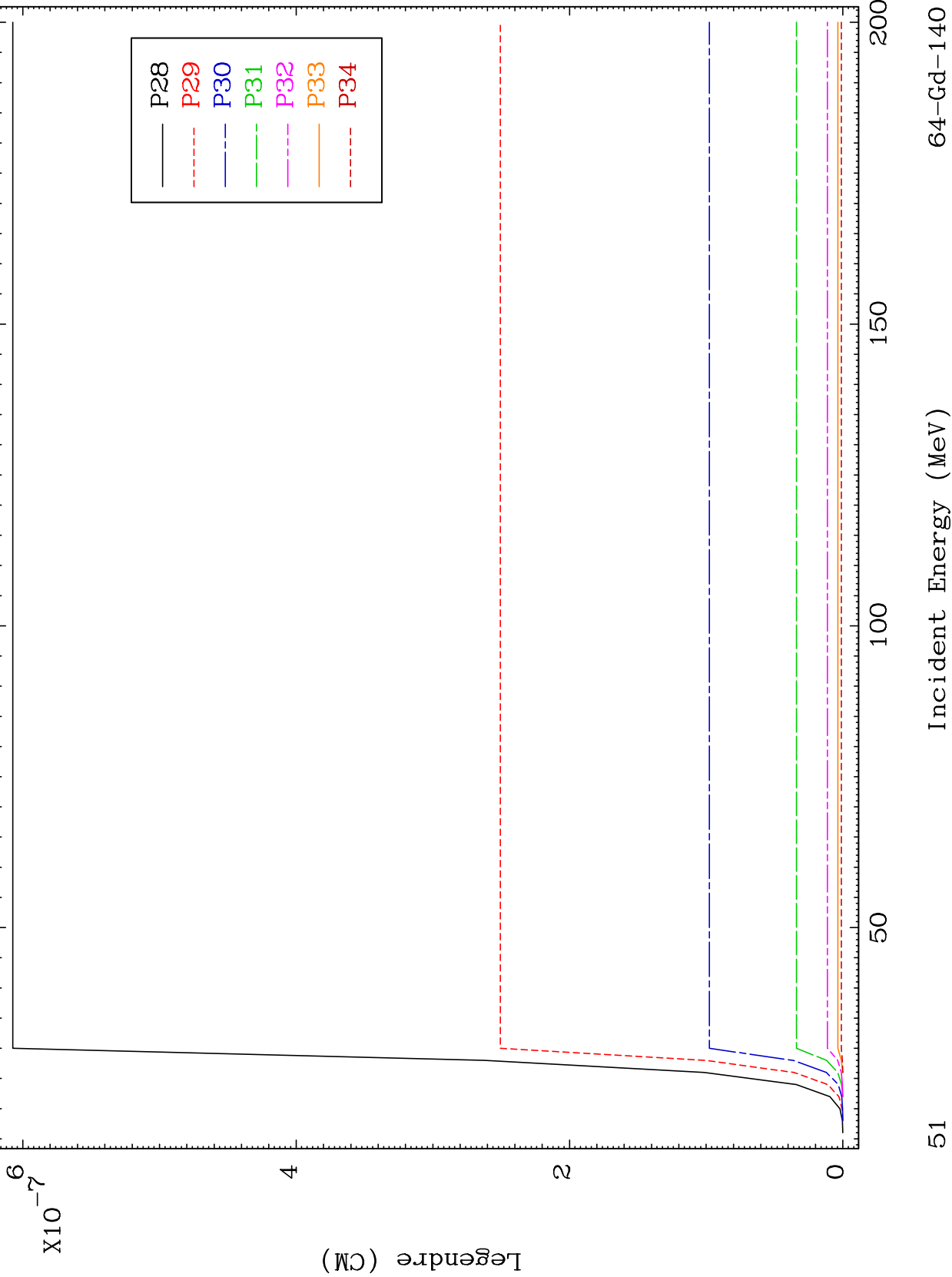
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MAT 6389

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

64-Gd-140



51

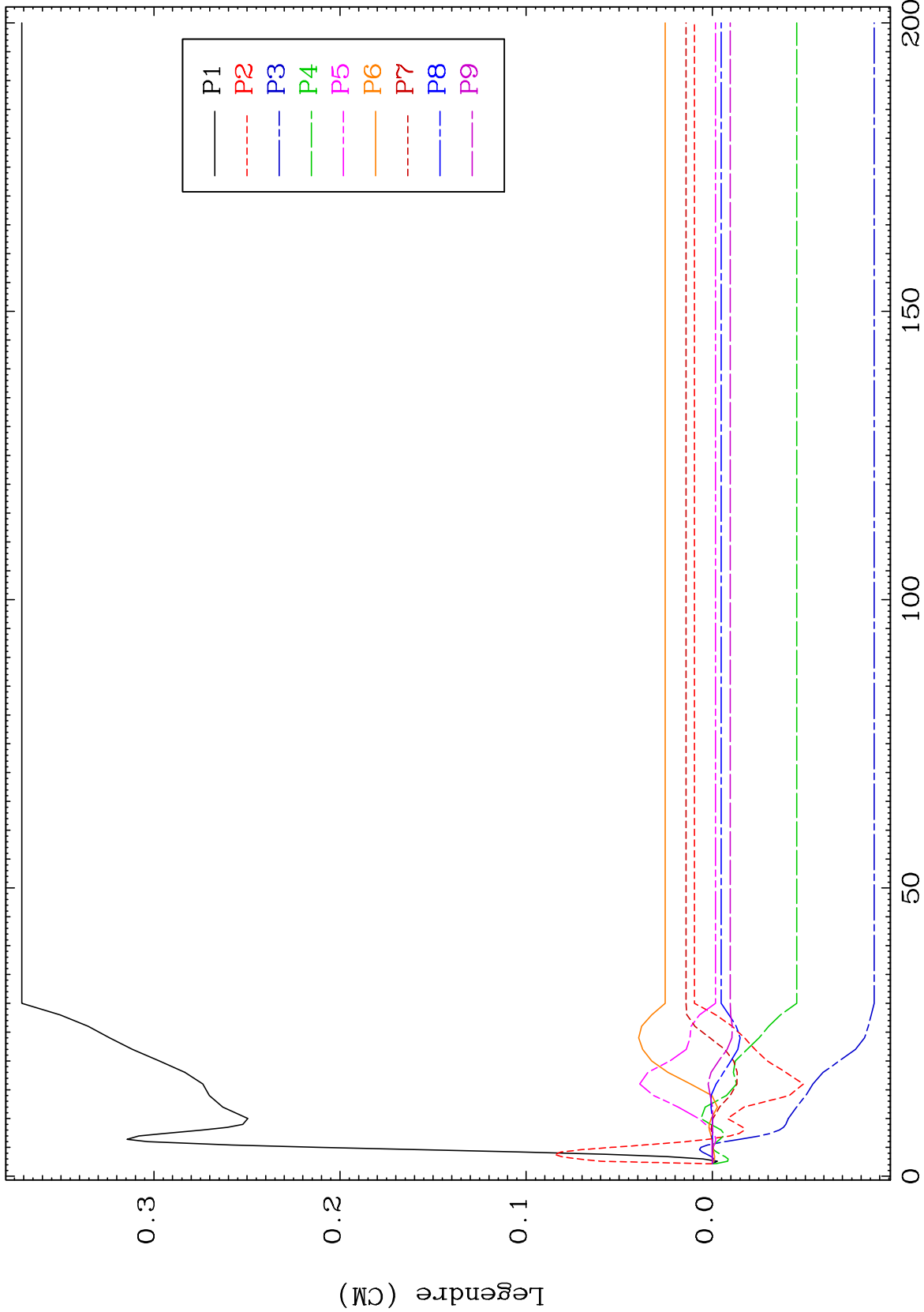
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



52

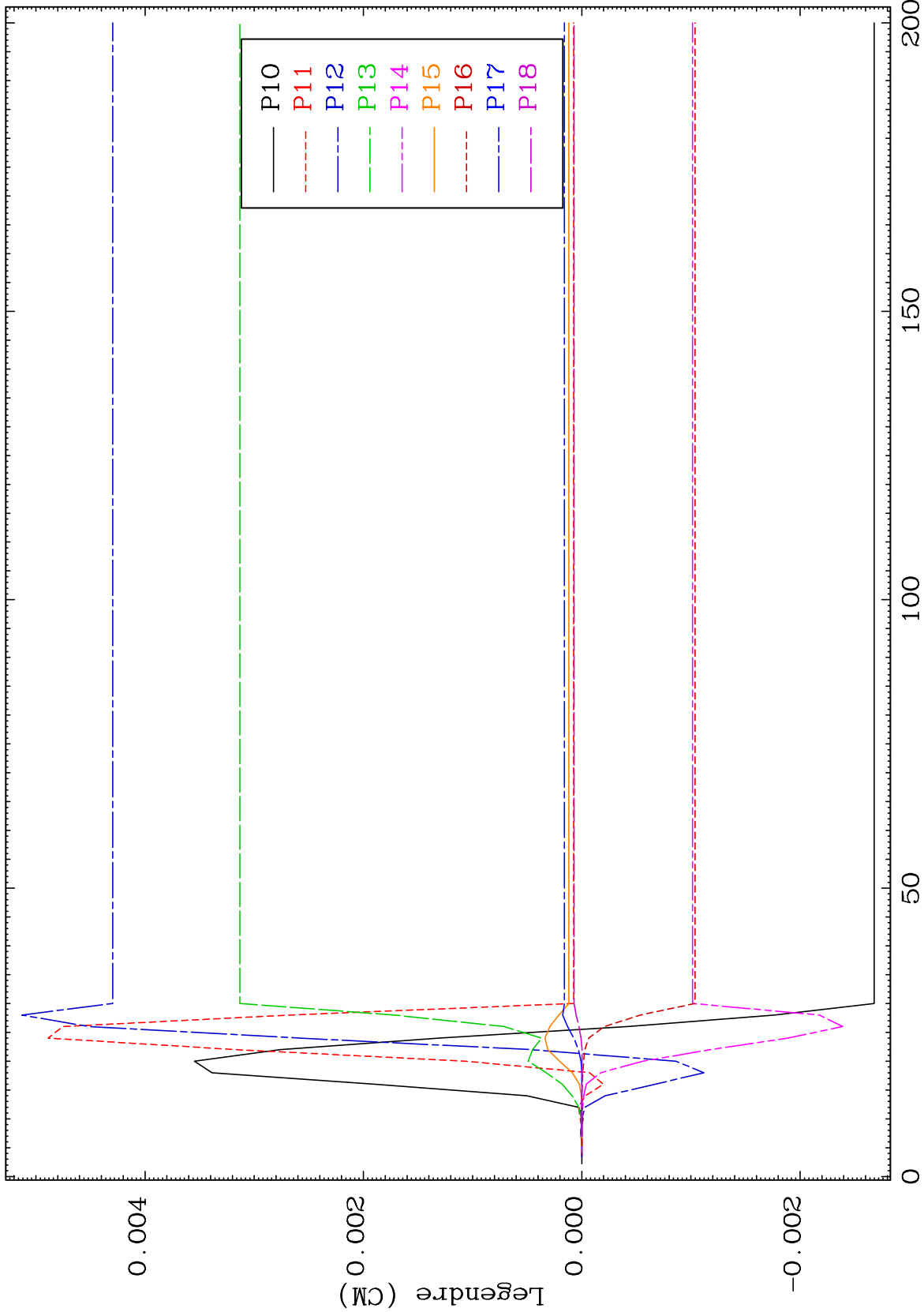
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



53

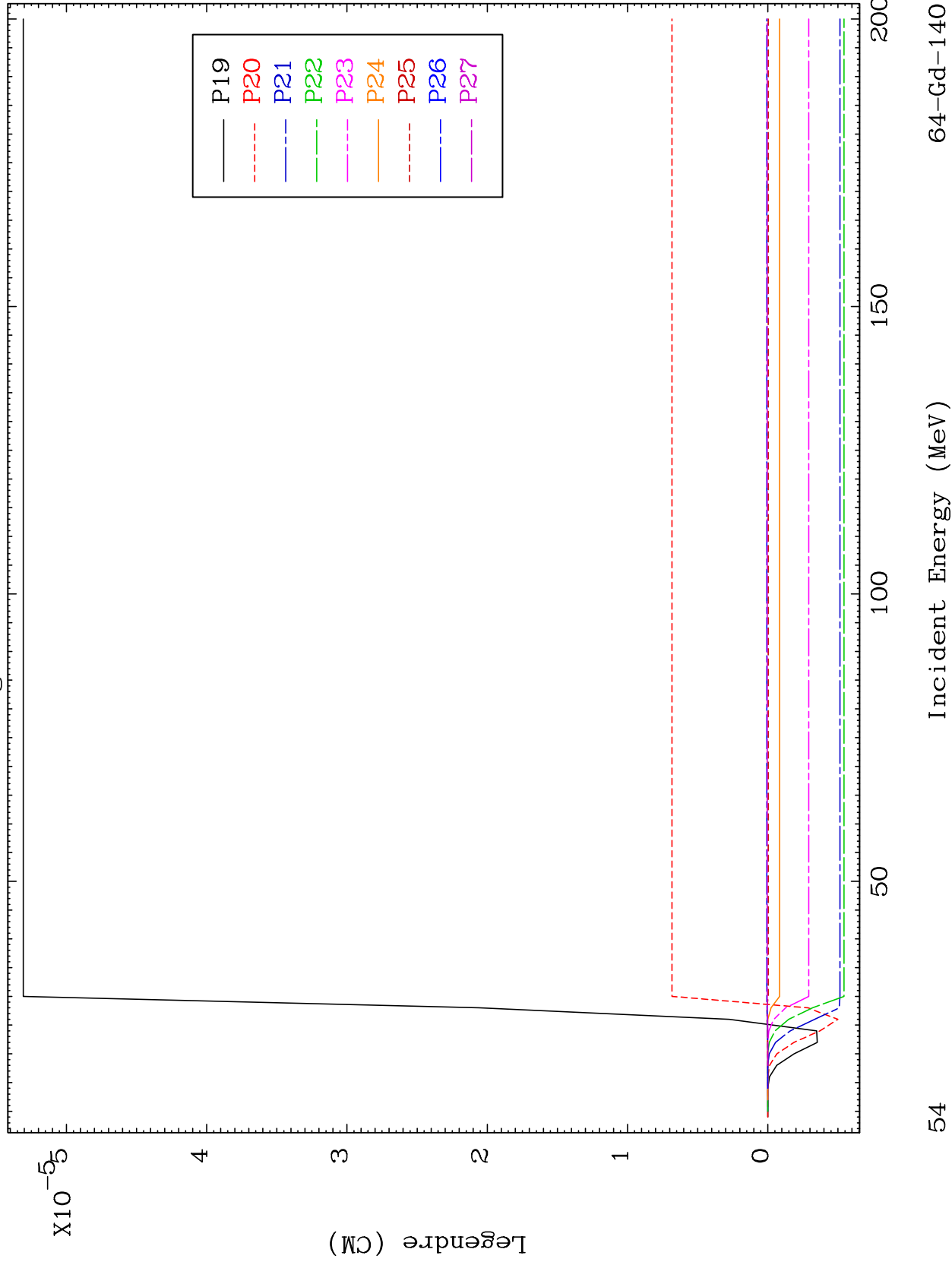
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



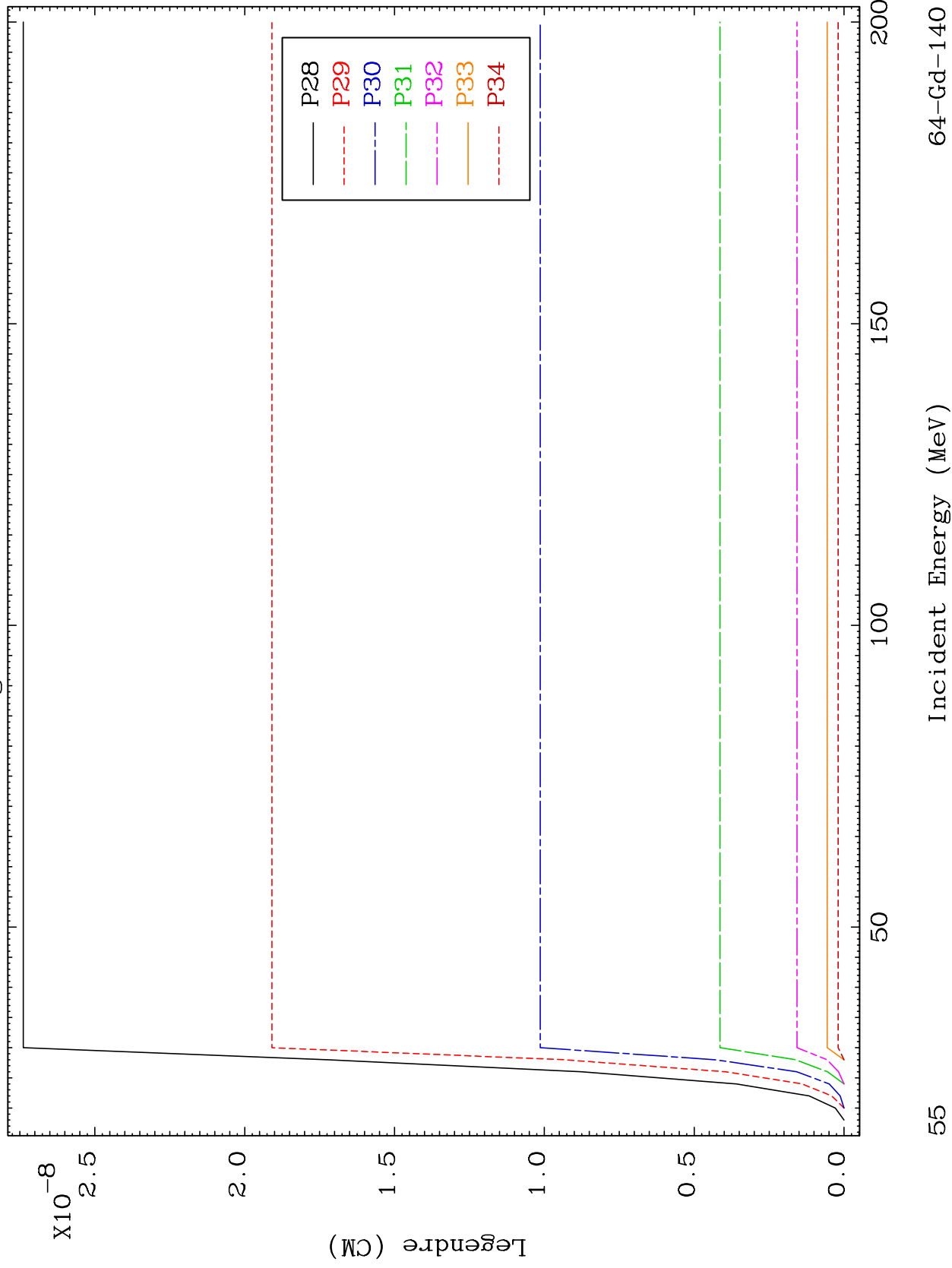
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64-Gd-140

MAT 6389

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

64-Gd-140



55

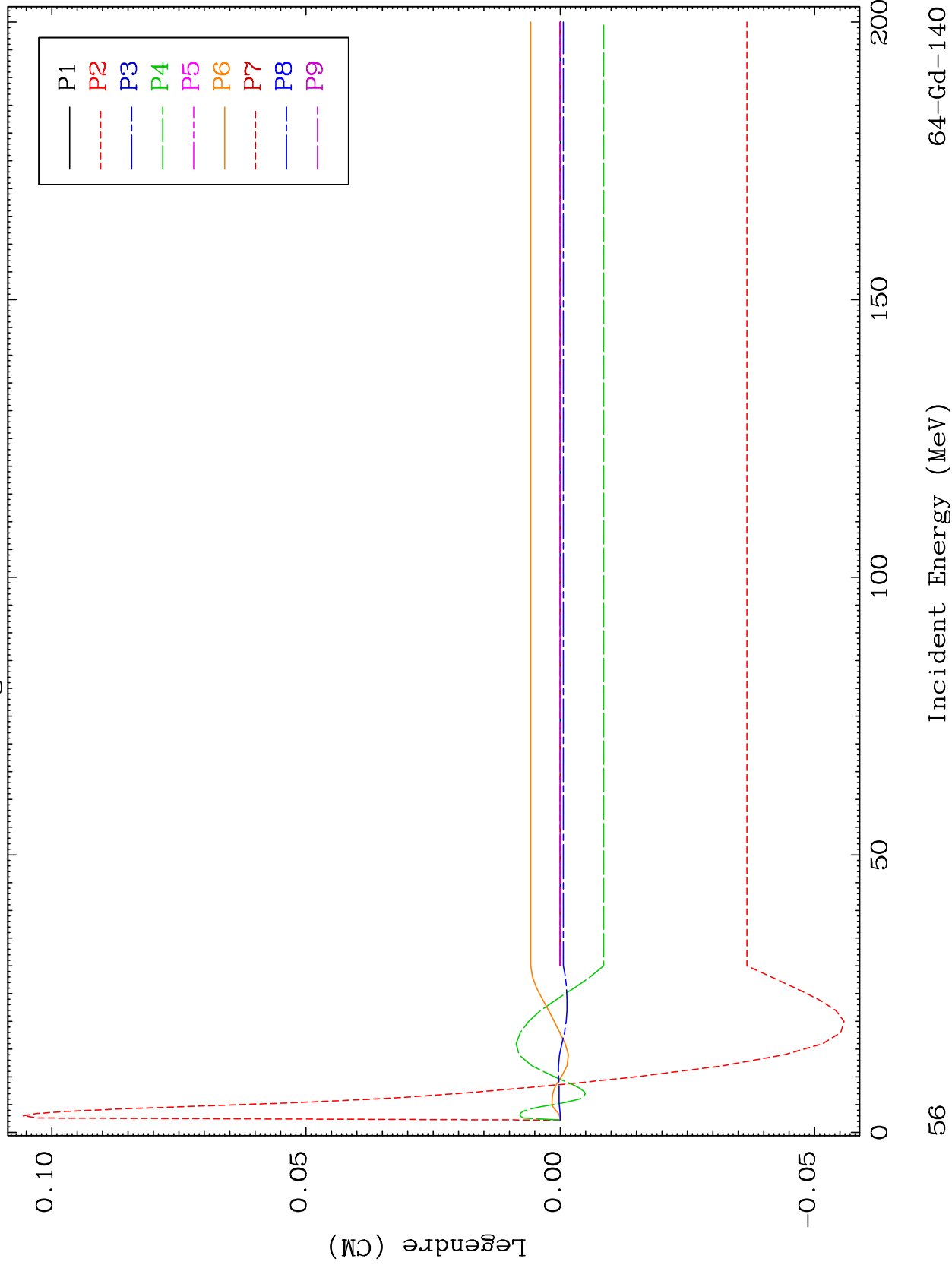
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



64-Gd-140

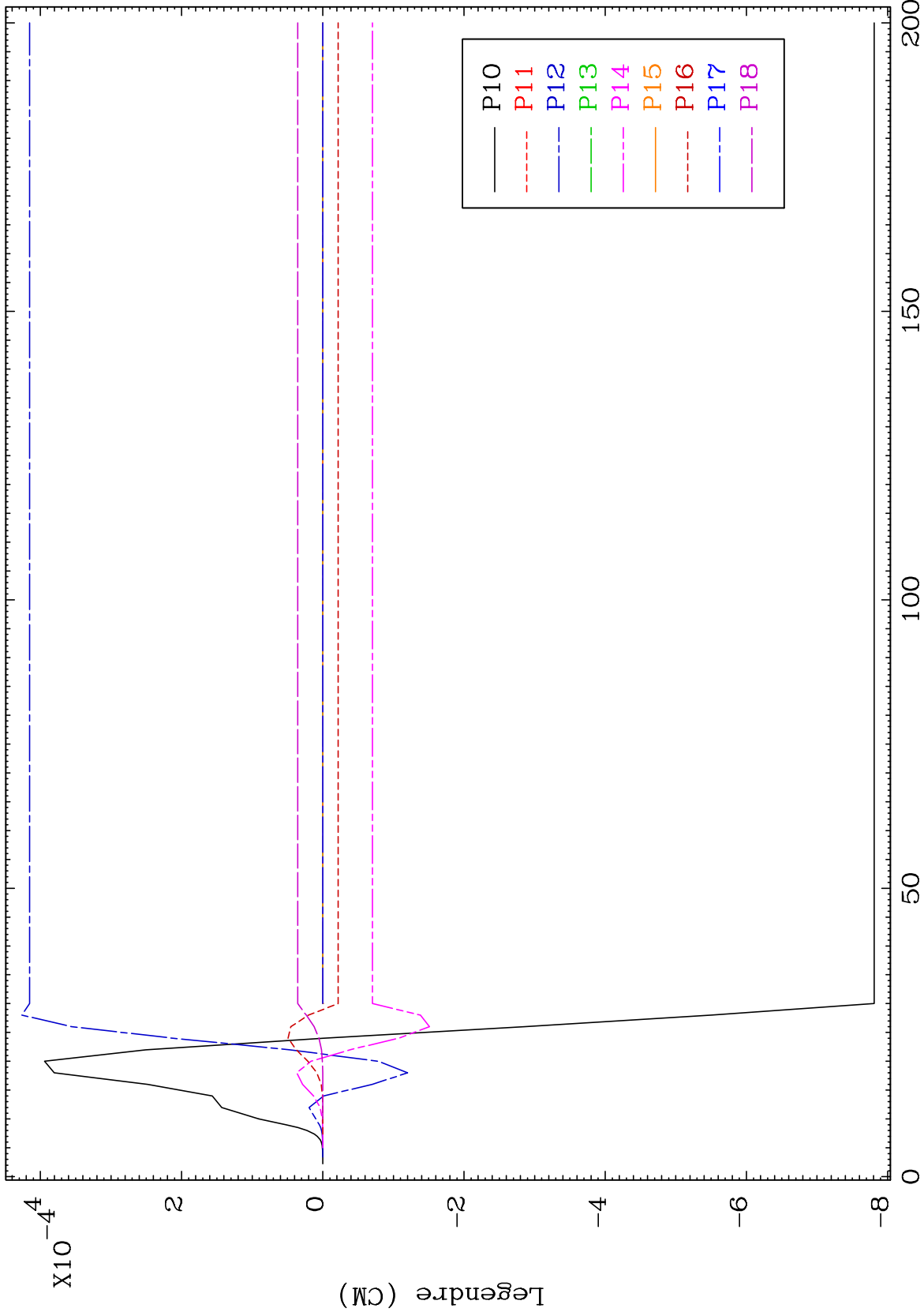
Incident Energy (MeV)

56

MAT 6389

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

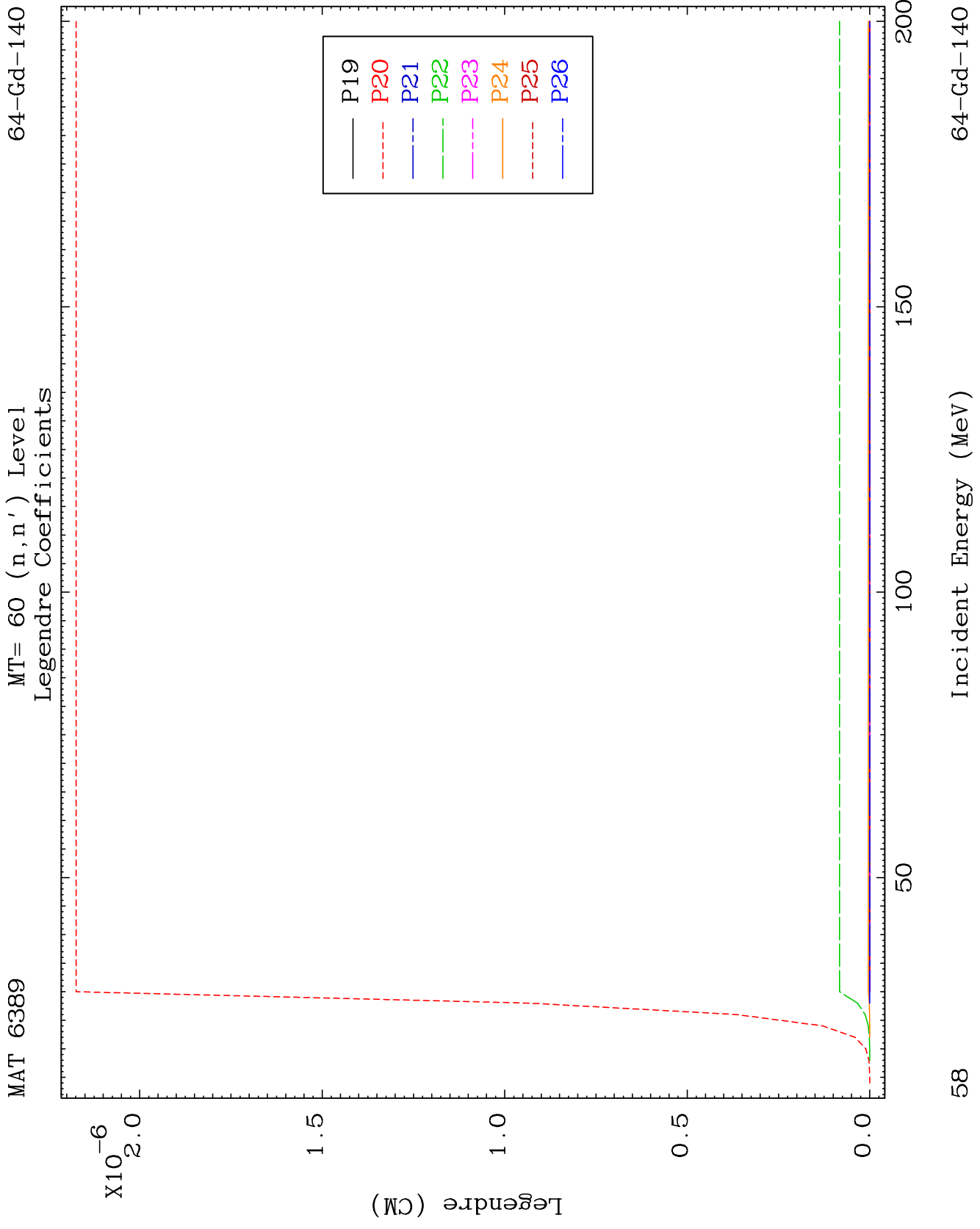
64-Gd-140



57

Incident Energy (MeV)

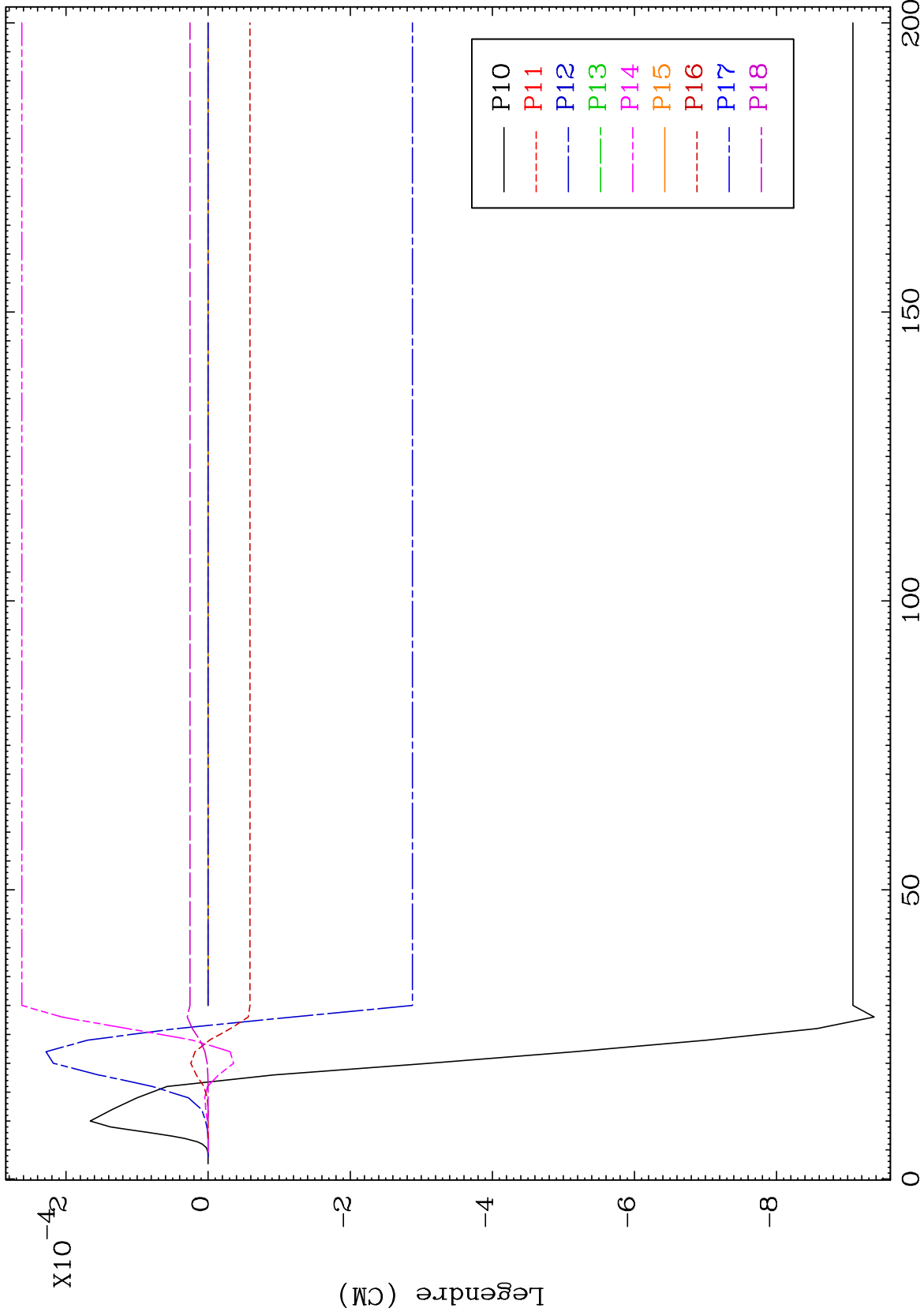
64-Gd-140



MAT 6389

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

64-Gd-140



60

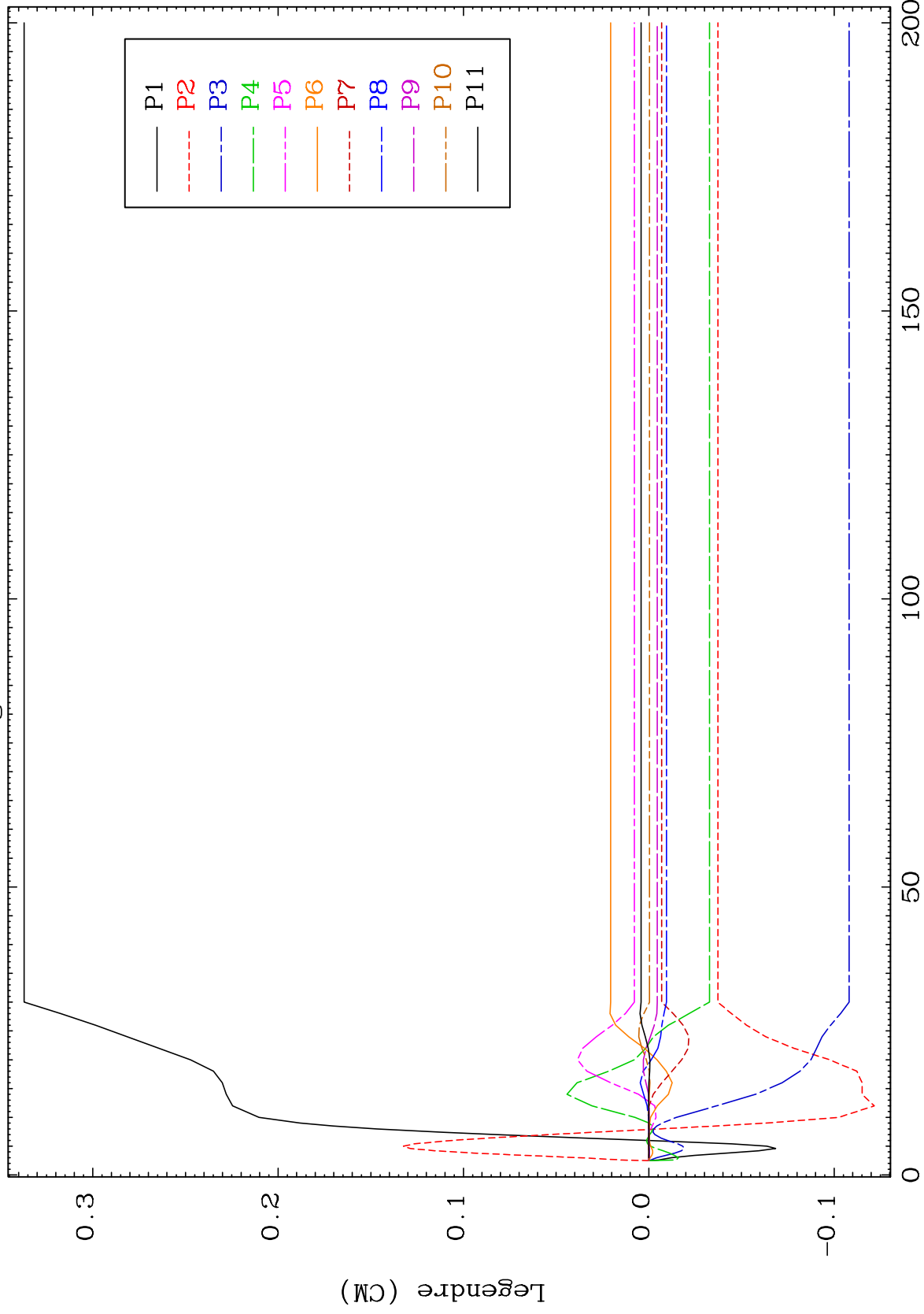
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



62

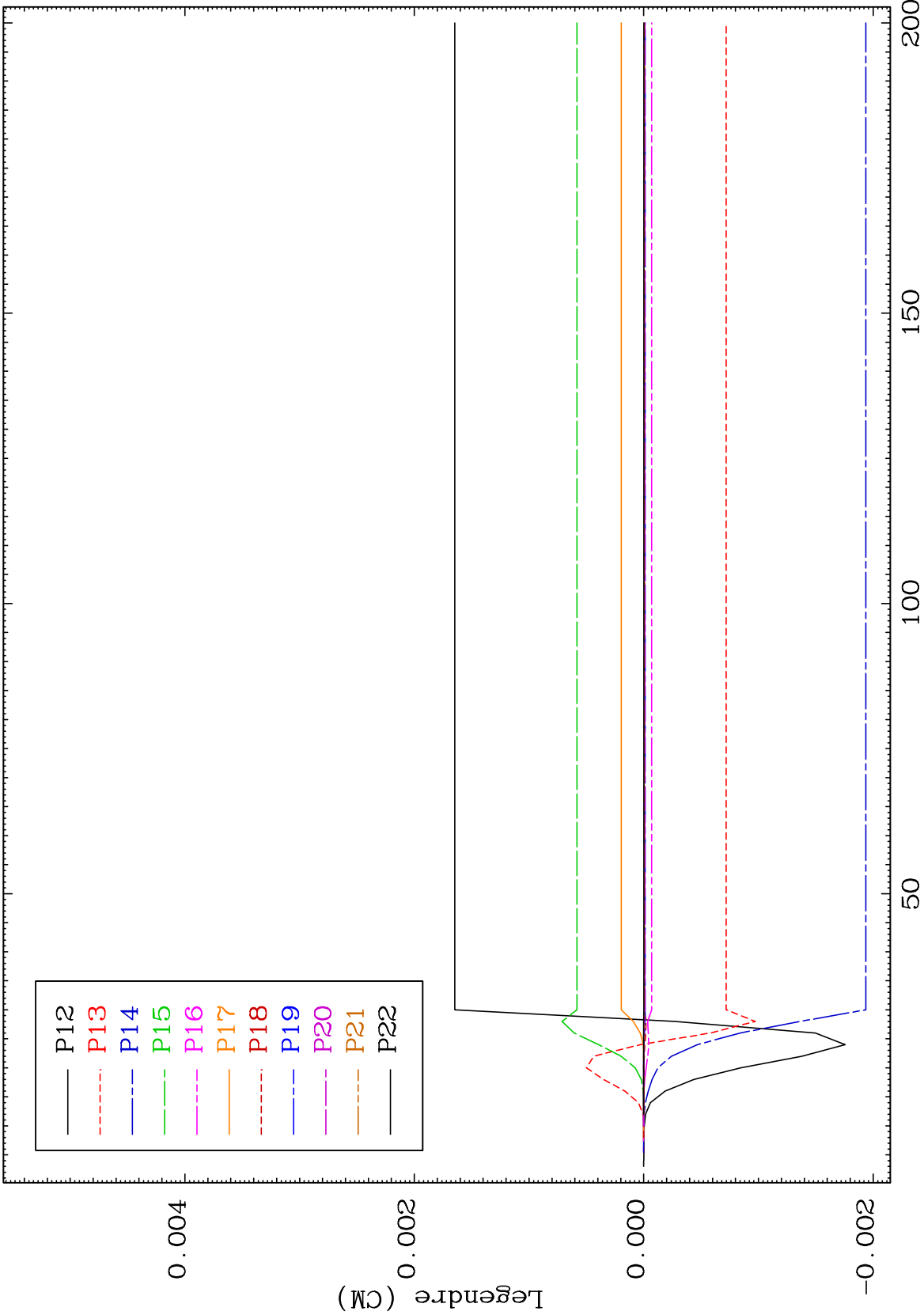
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



63

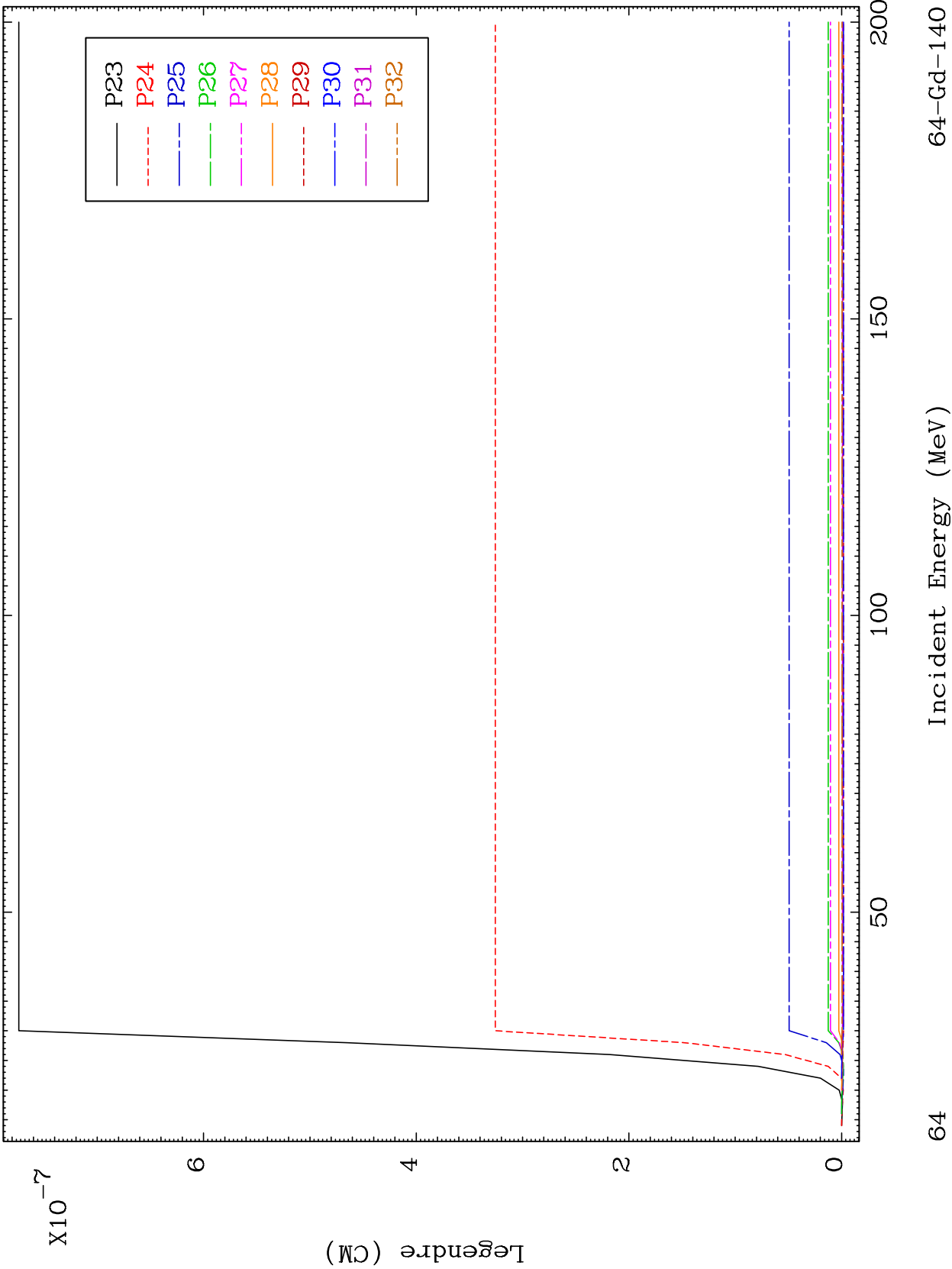
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

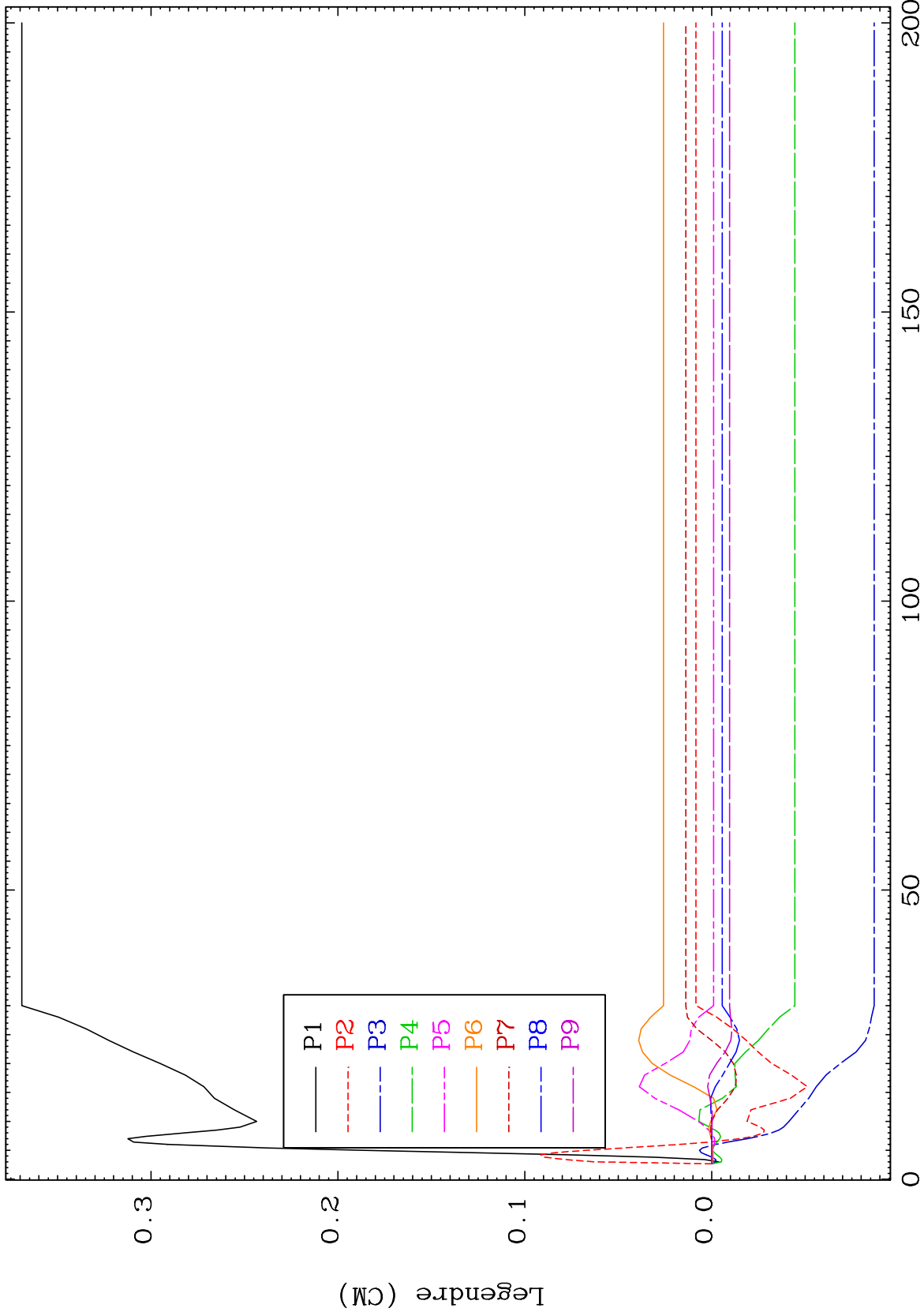
64-Gd-140



MAT 6389

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

64-Gd-140



65

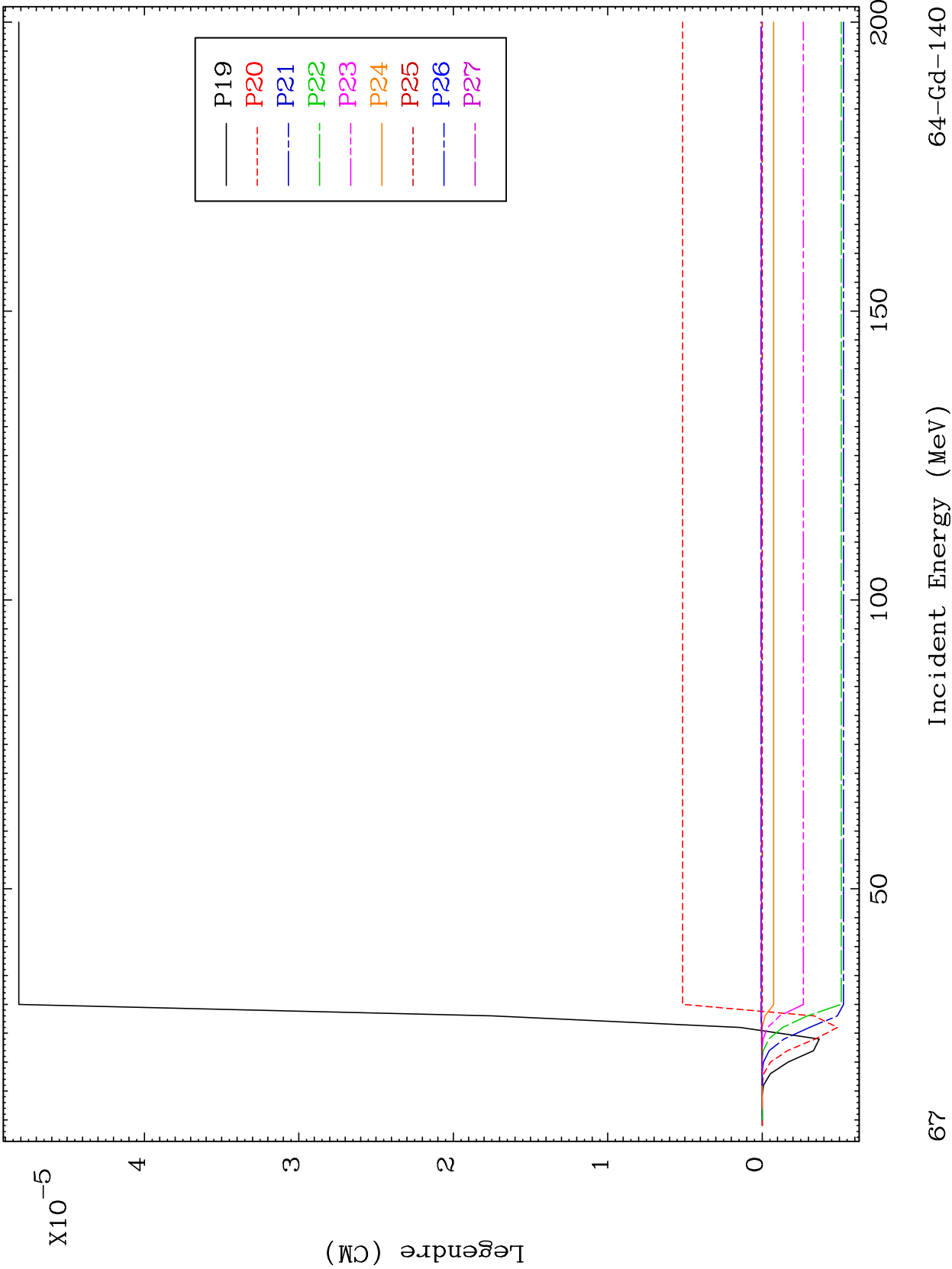
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



67

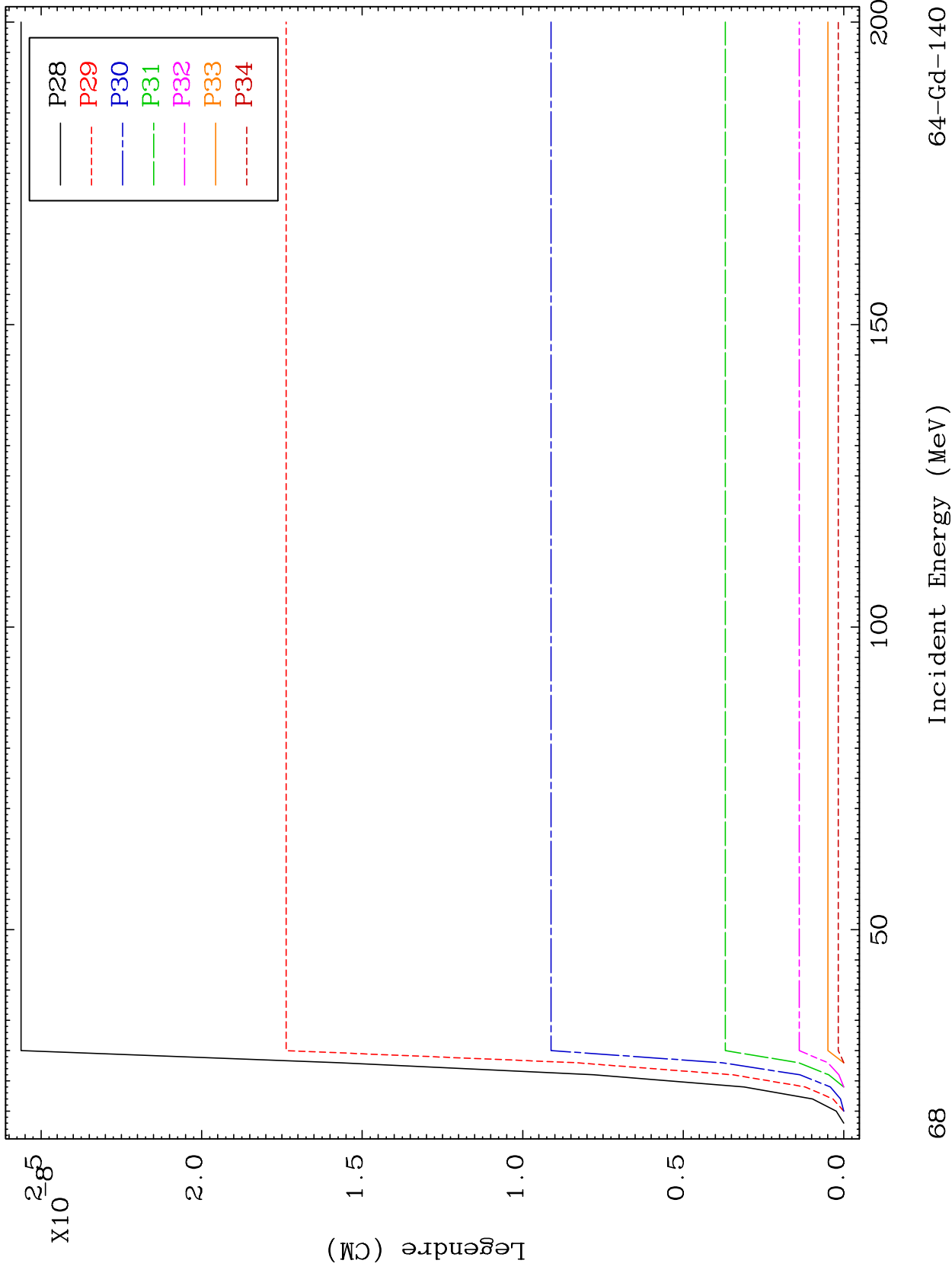
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

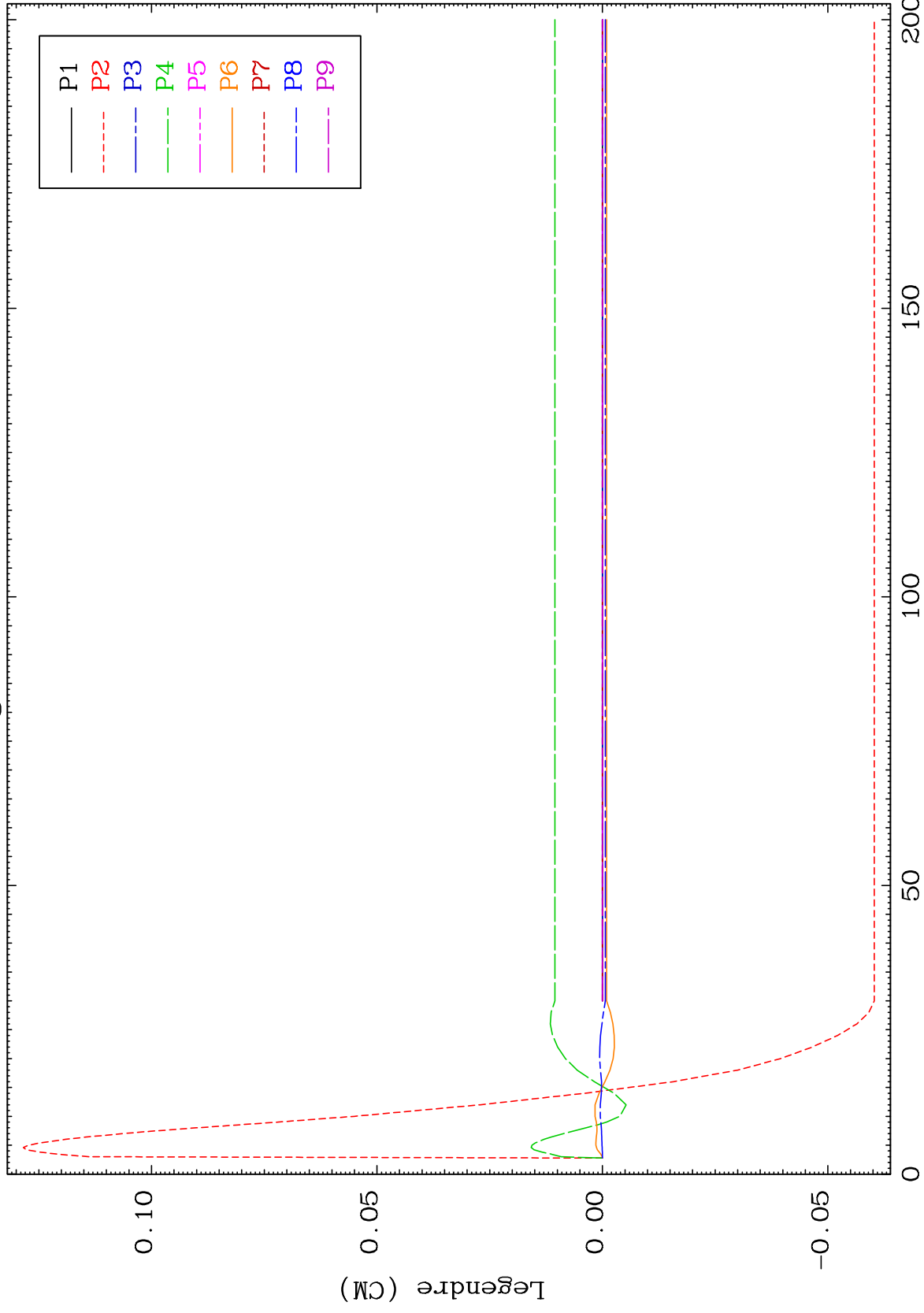
64-Gd-140



MAT 6389

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

64-Gd-140



69

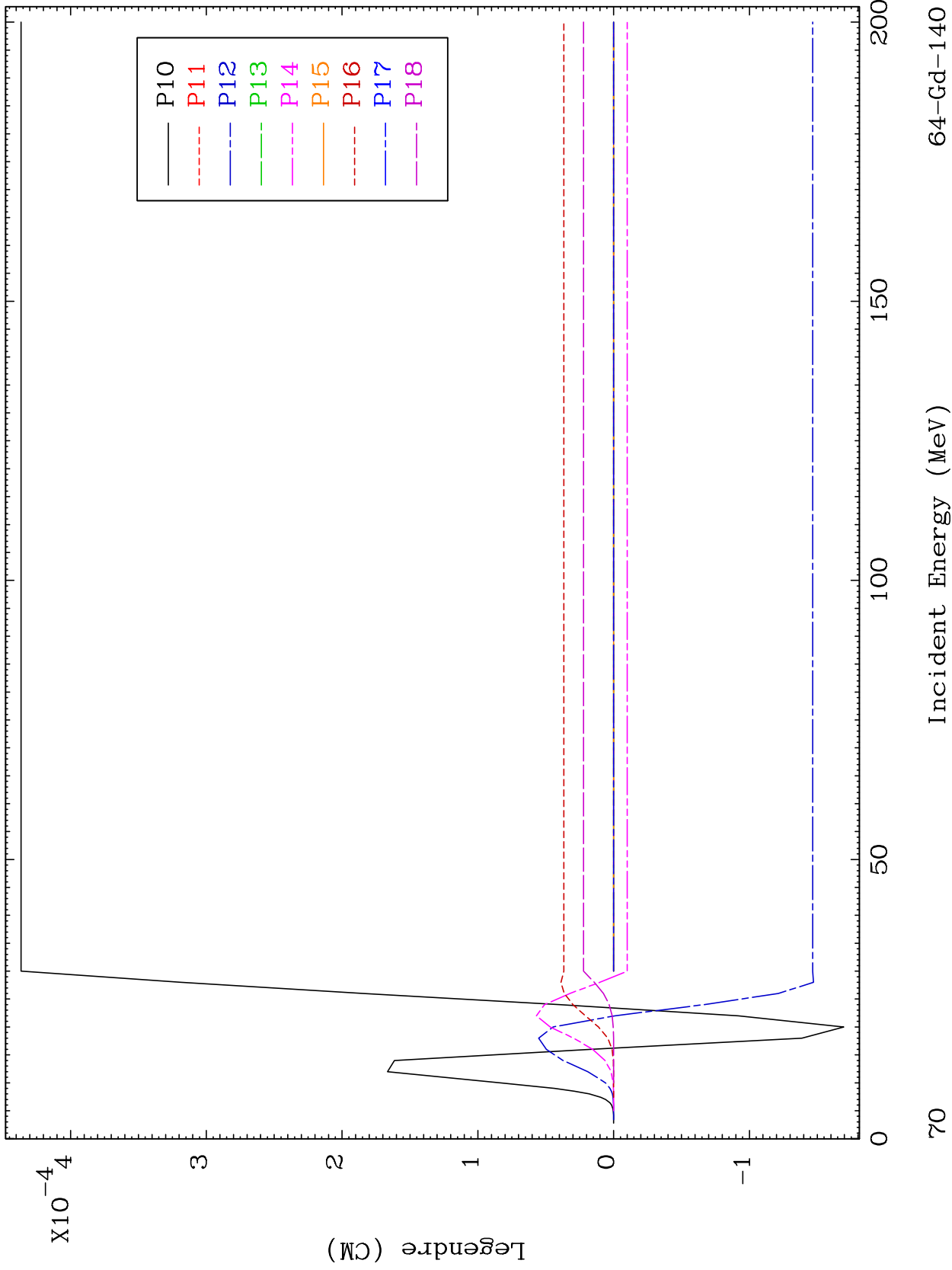
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

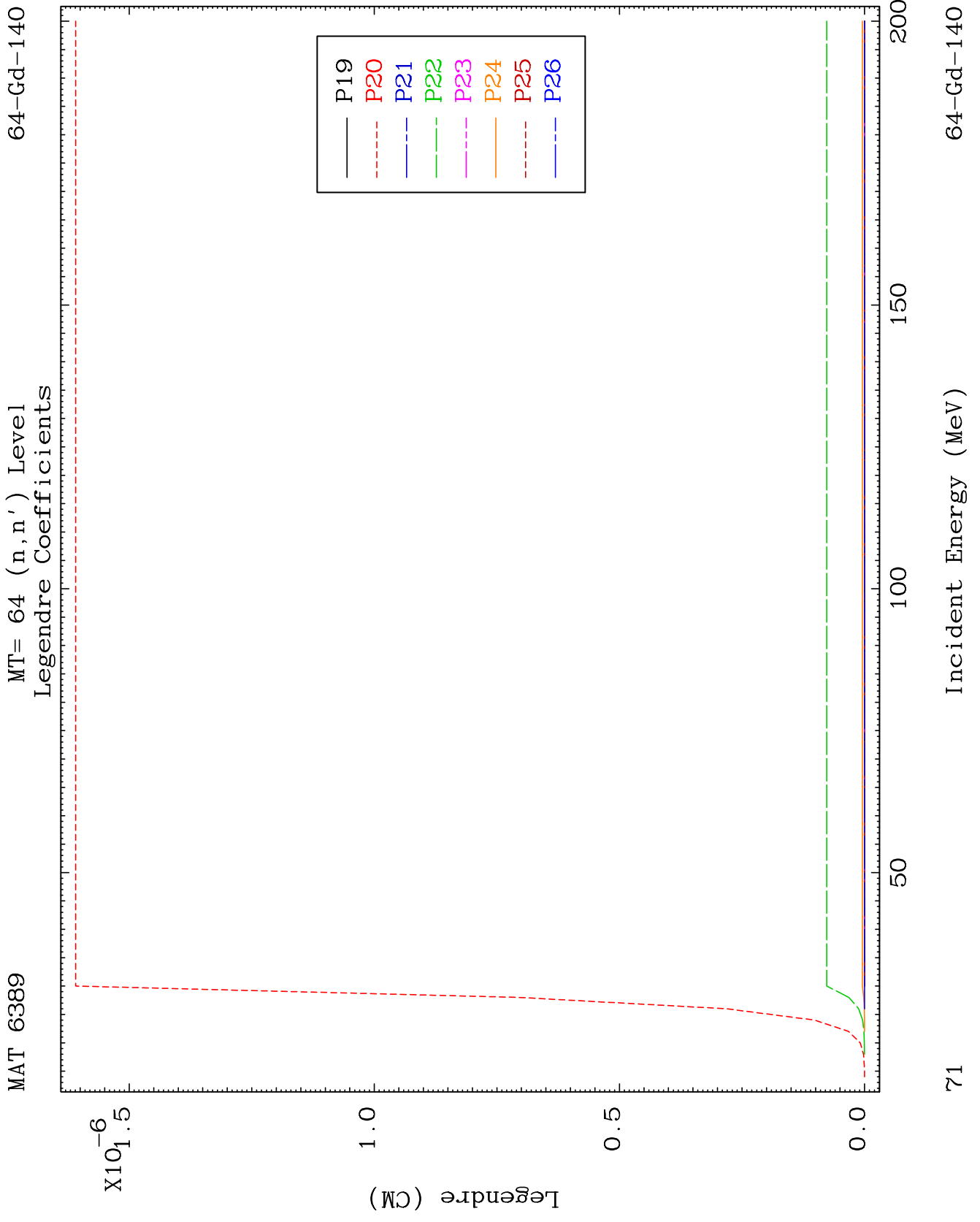
64-Gd-140



64-Gd-140

Incident Energy (MeV)

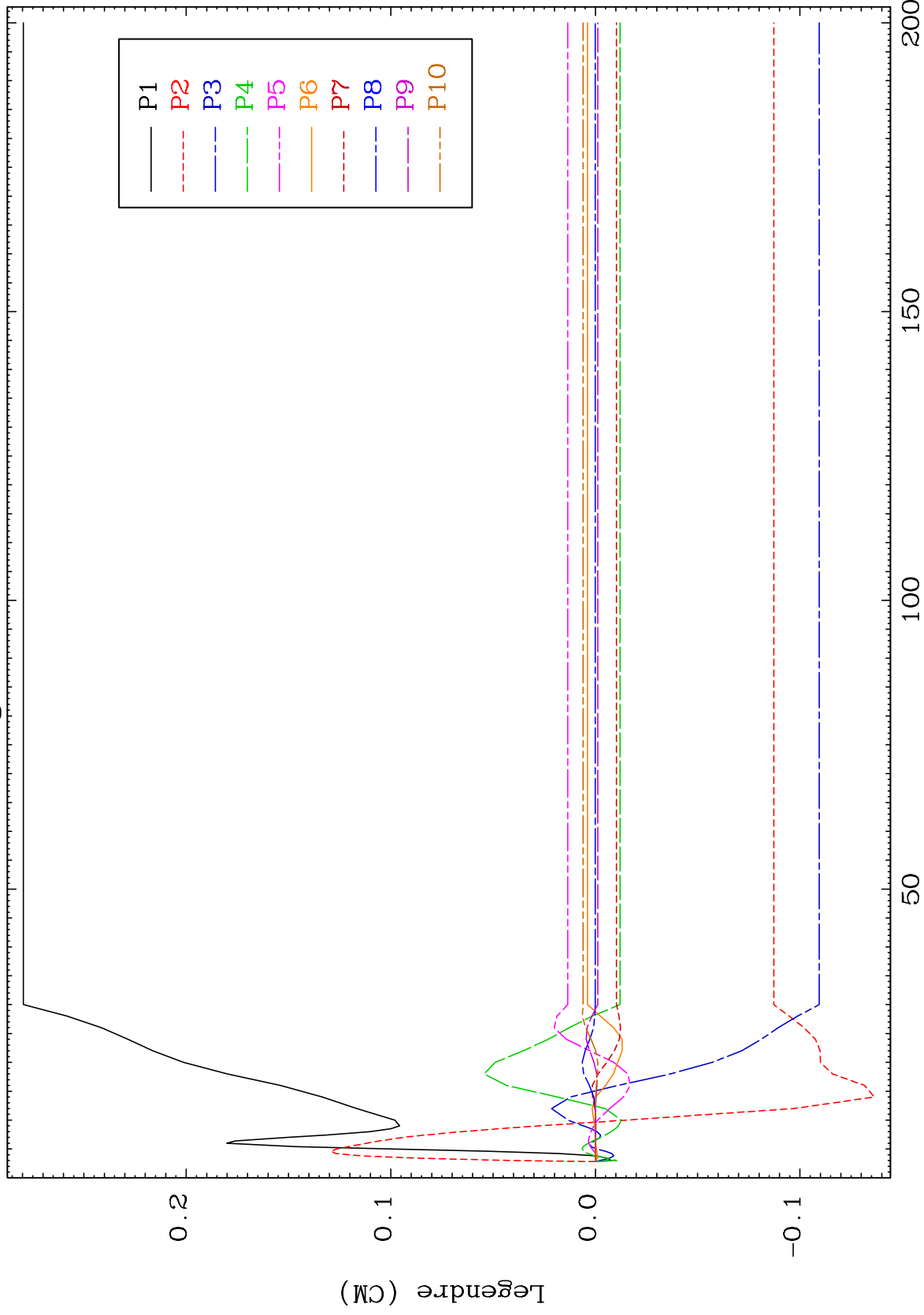
70



MAT 6389

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

64-Gd-140



72

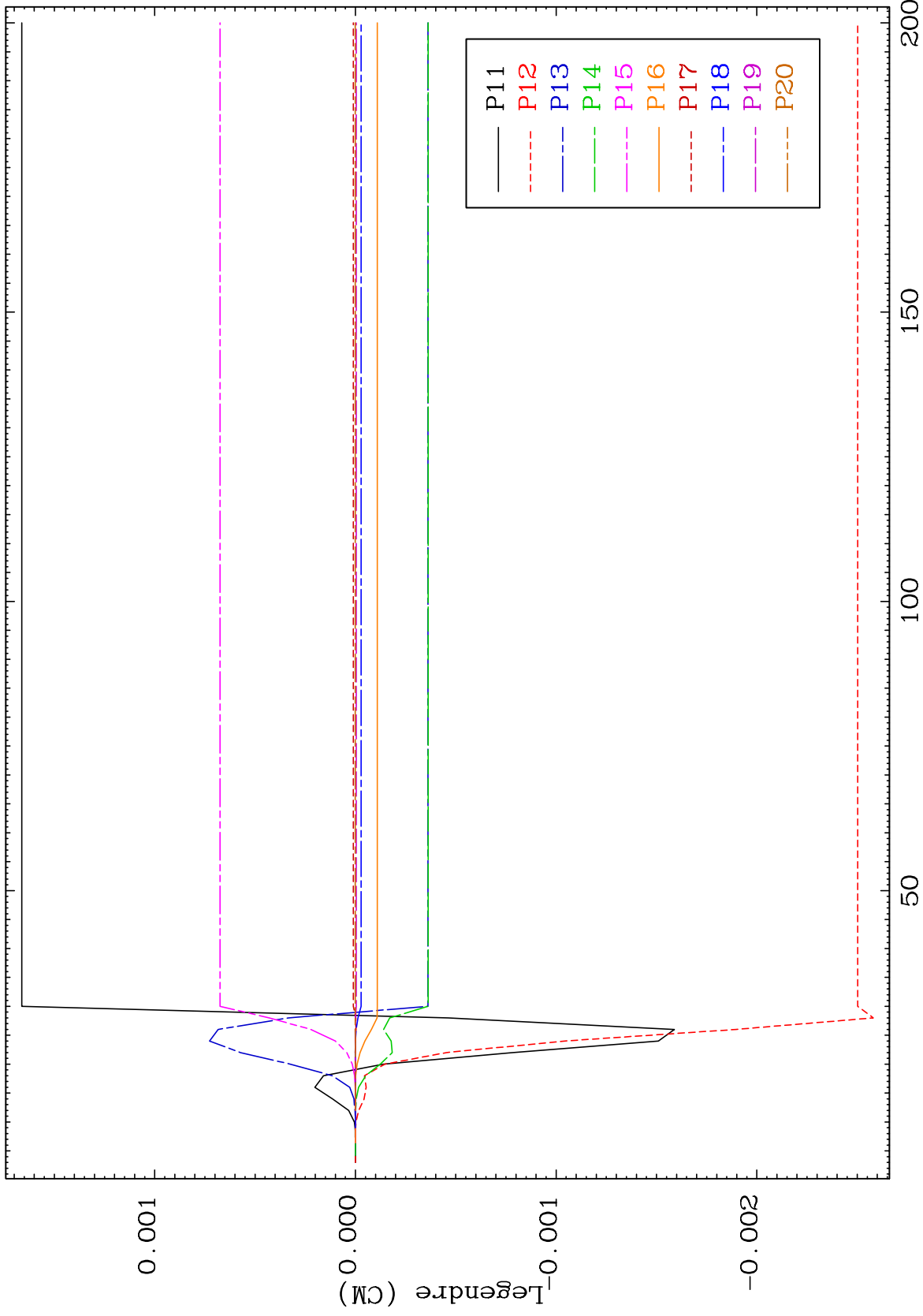
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



73

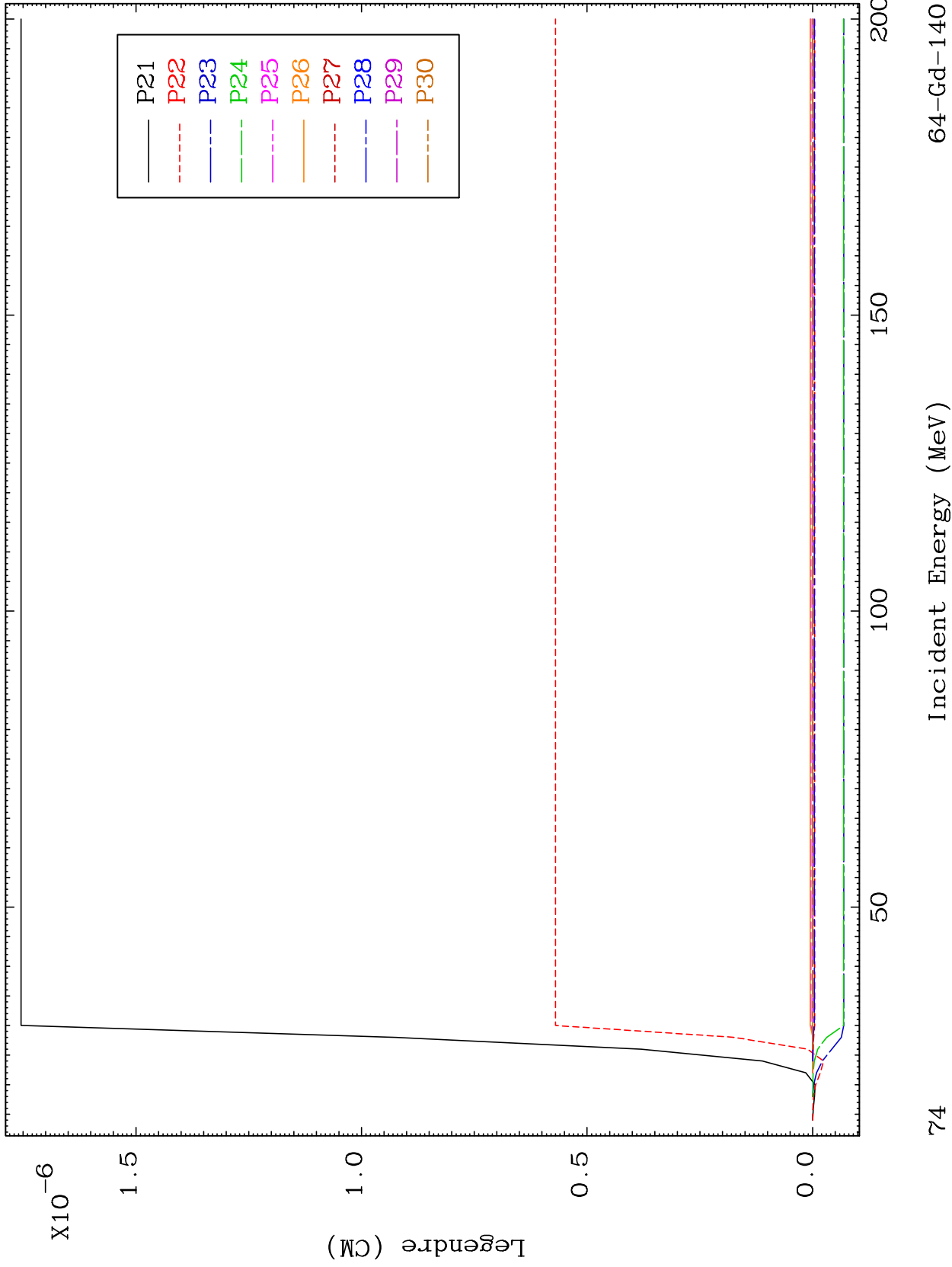
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

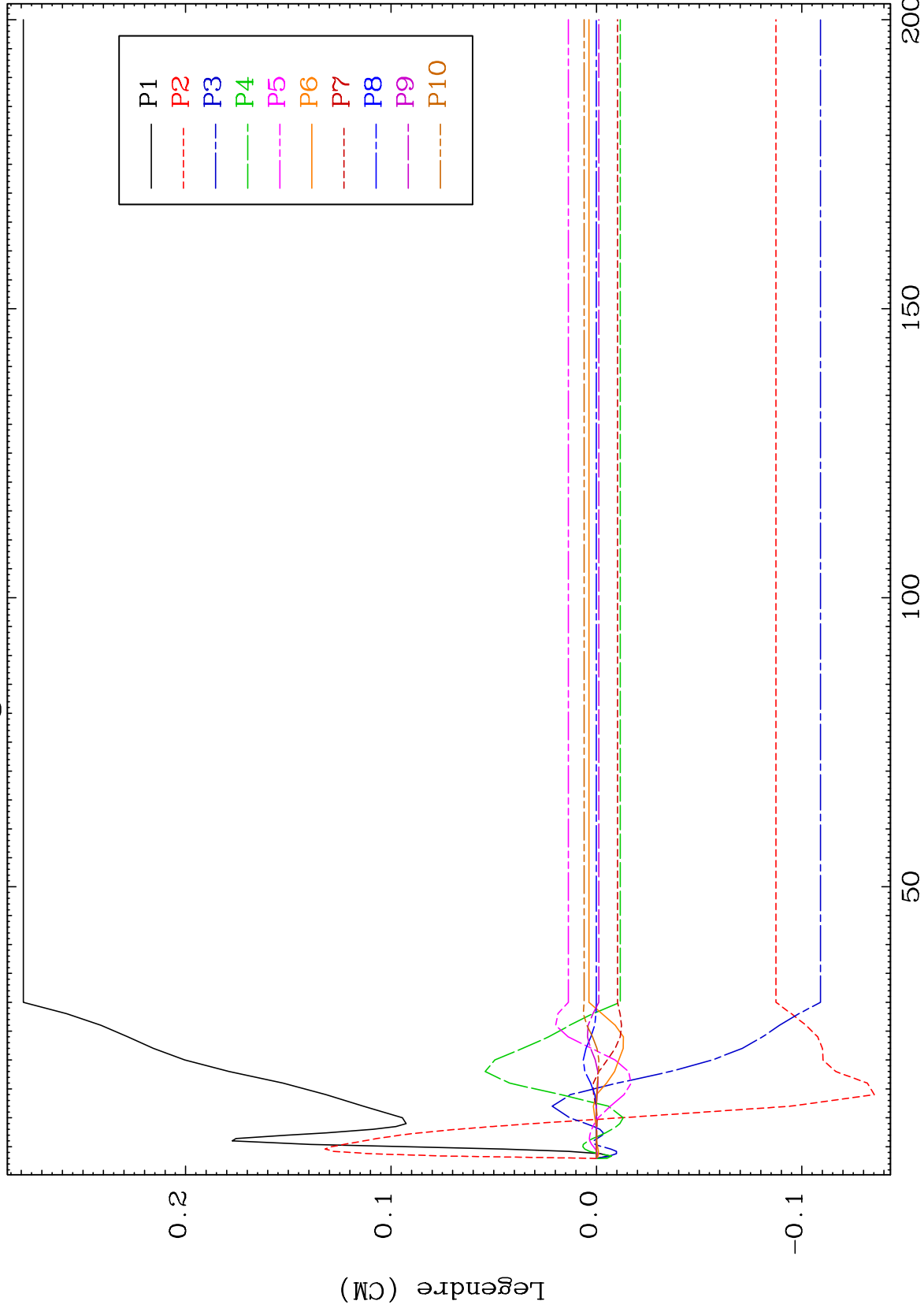
64-Gd-140



MAT 6389

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

64-Gd-140



75

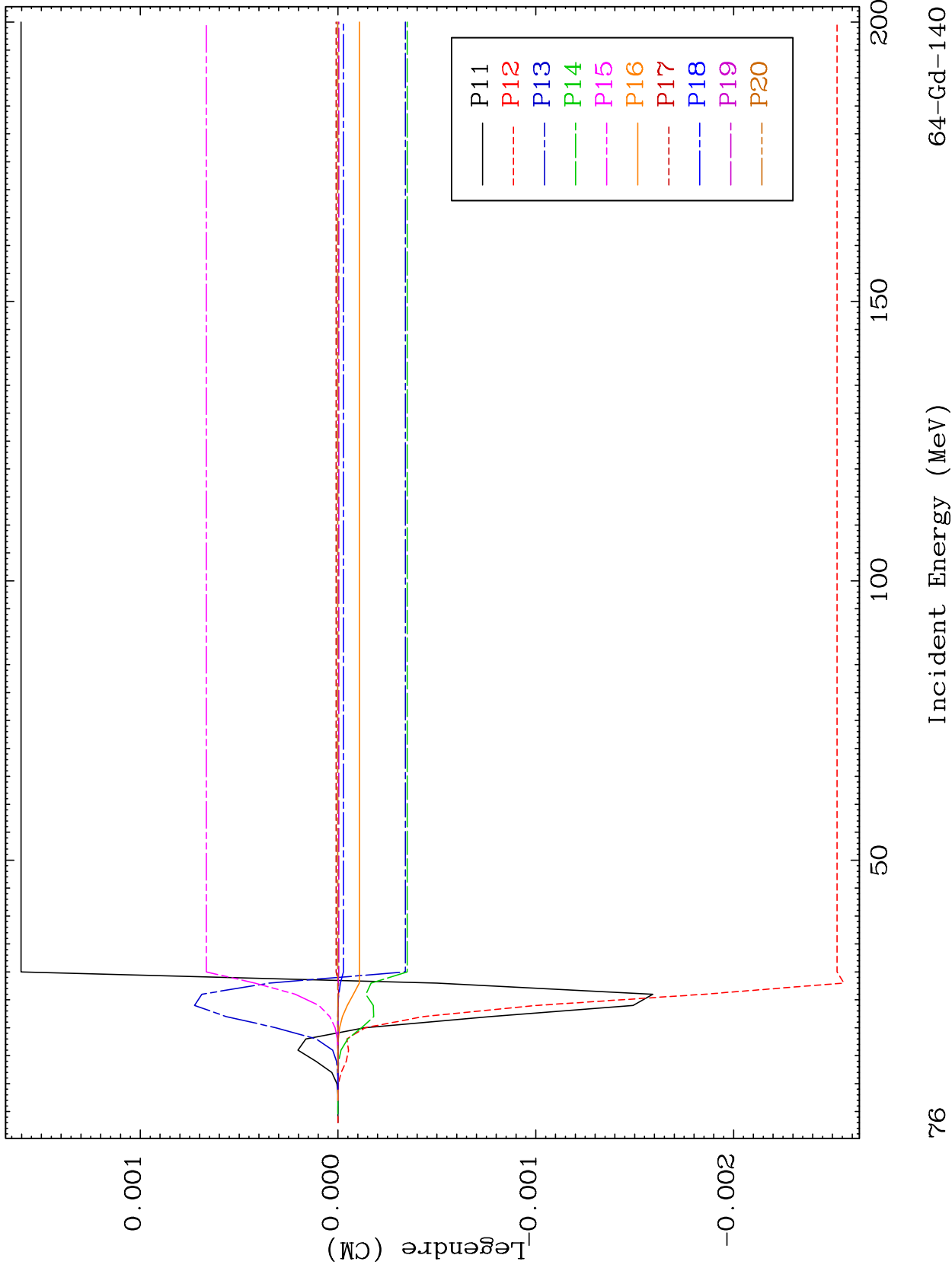
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



76

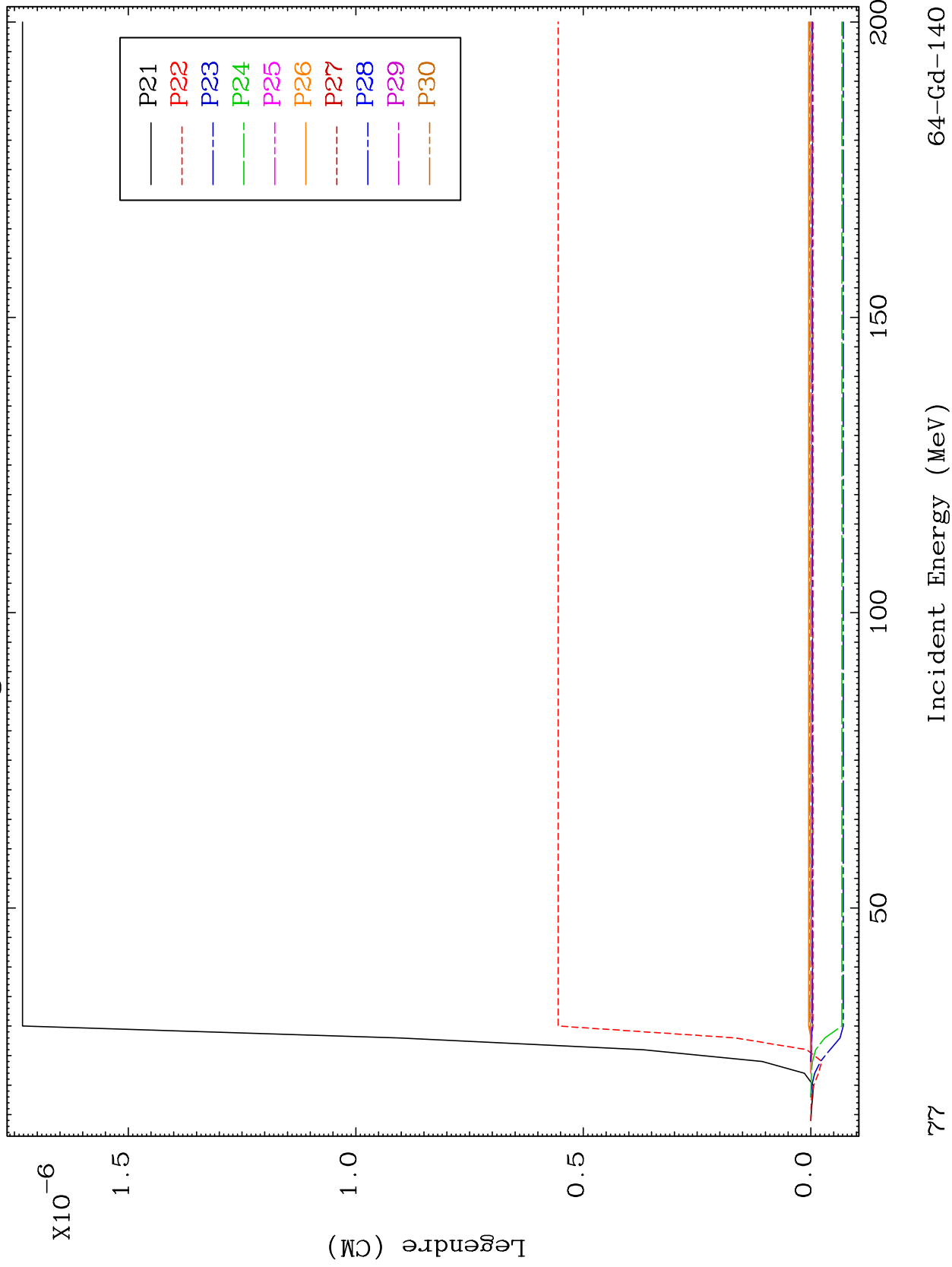
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

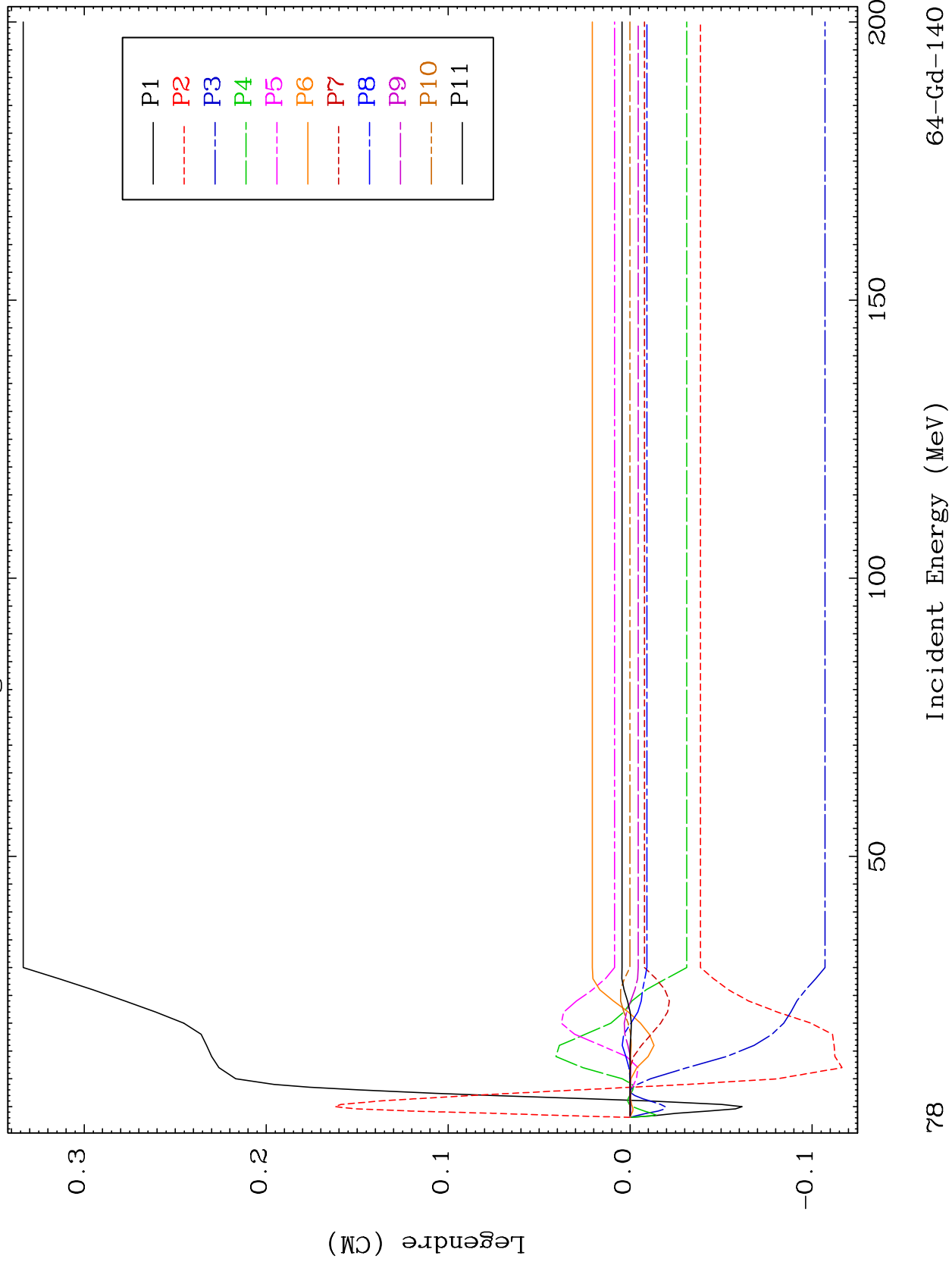
64-Gd-140



MAT 6389

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

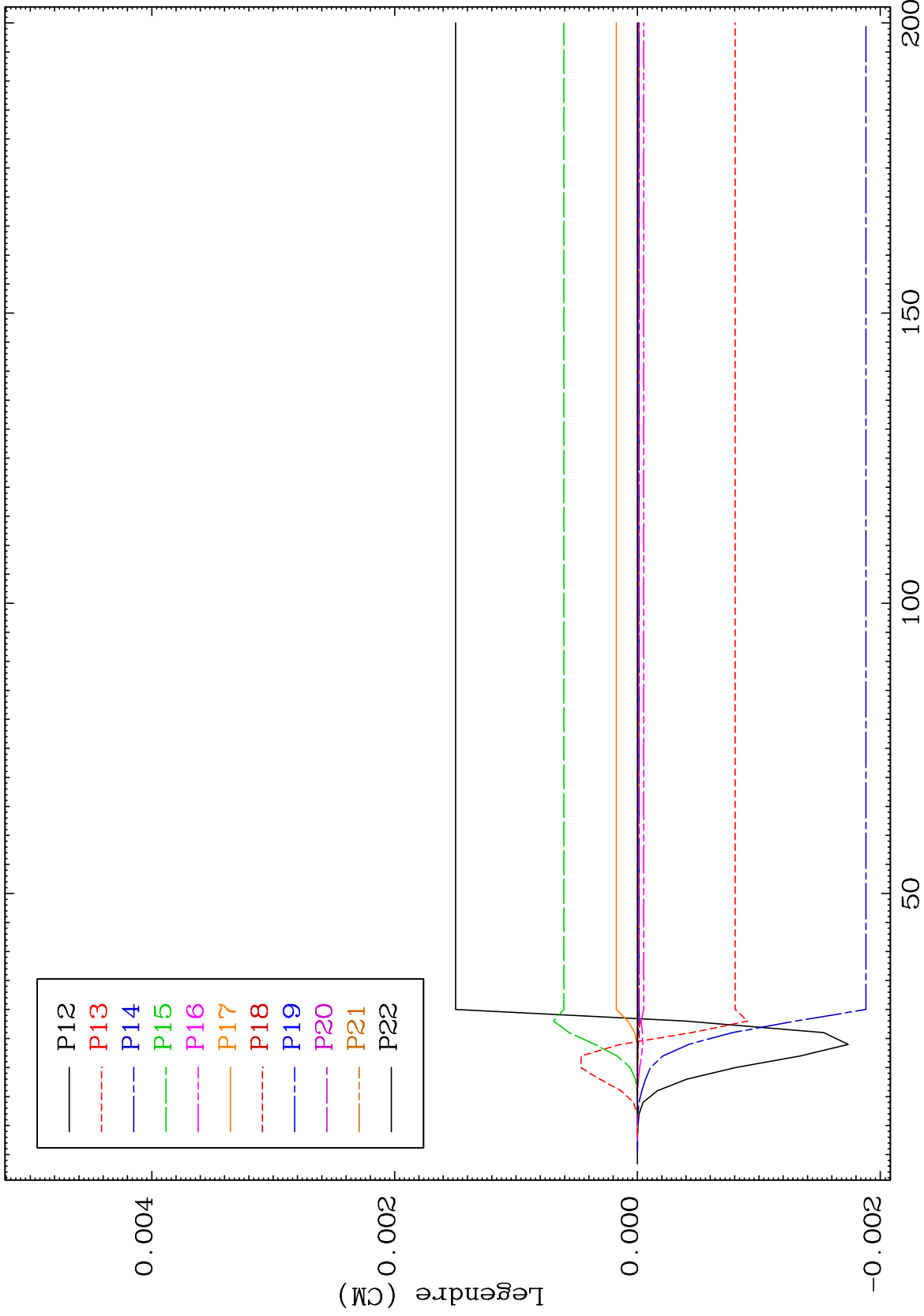
64-Gd-140



78

Incident Energy (MeV)

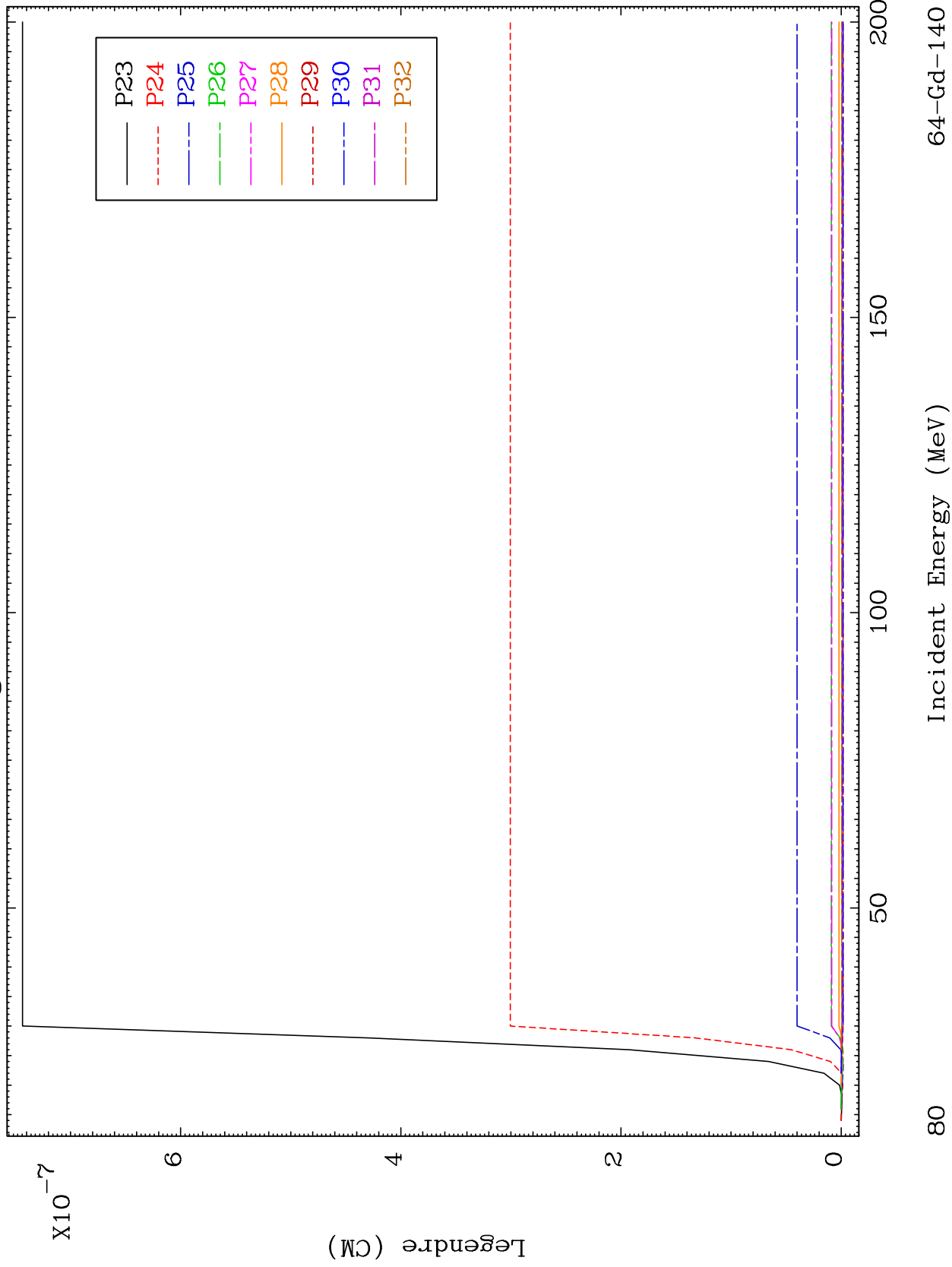
64-Gd-140



MAT 6389

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

64-Gd-140



64-Gd-140

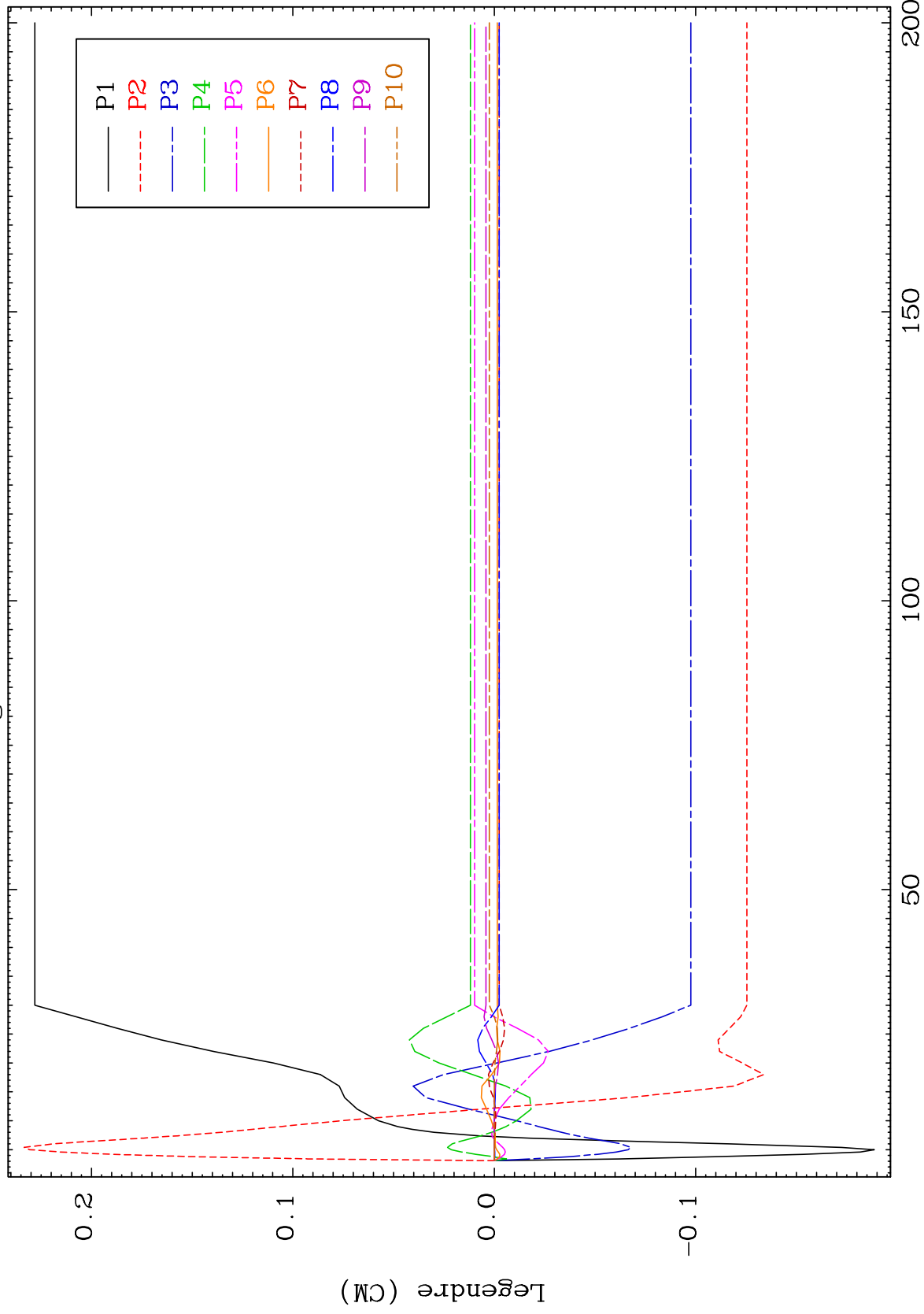
Incident Energy (MeV)

80

MAT 6389

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

64-Gd-140



81

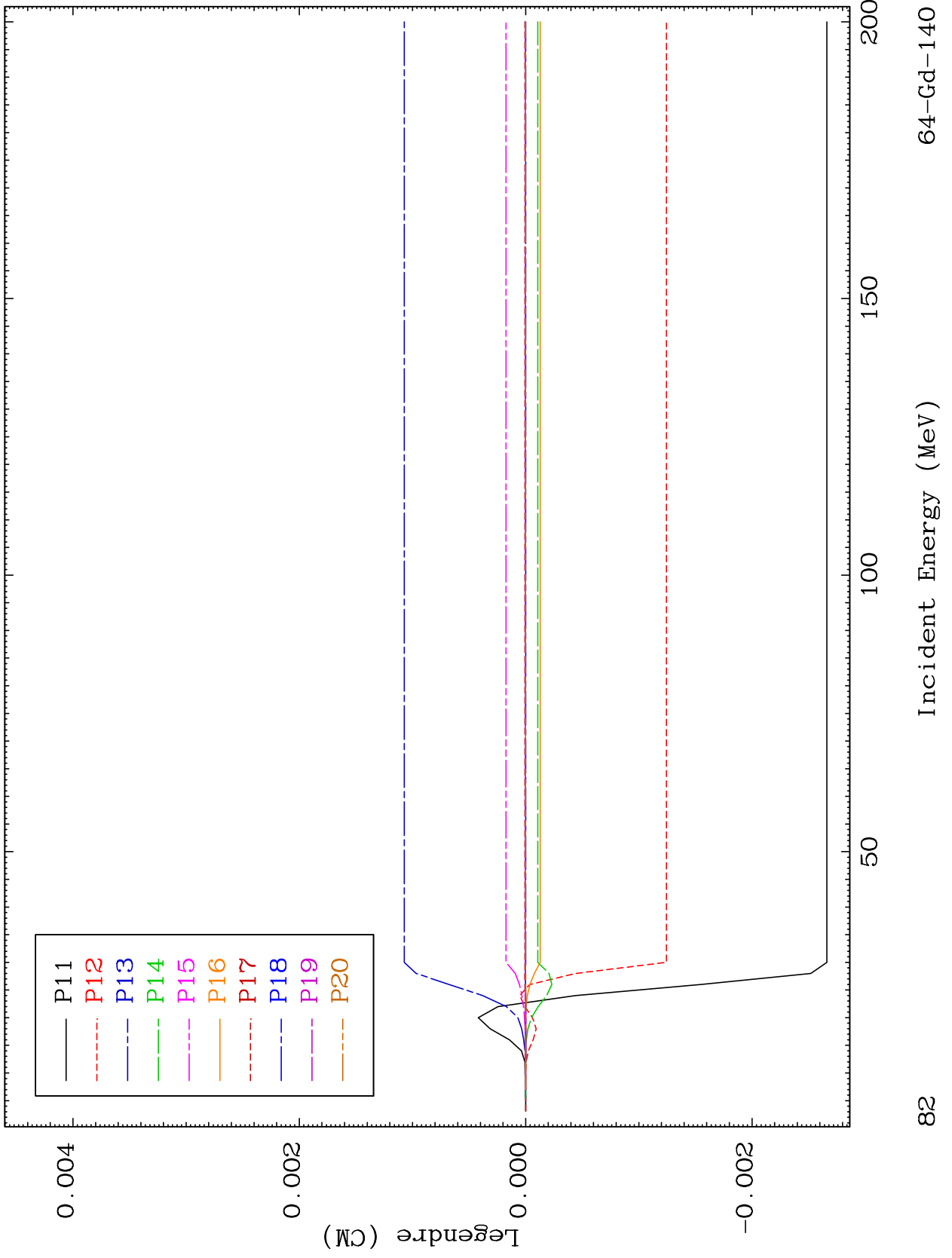
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

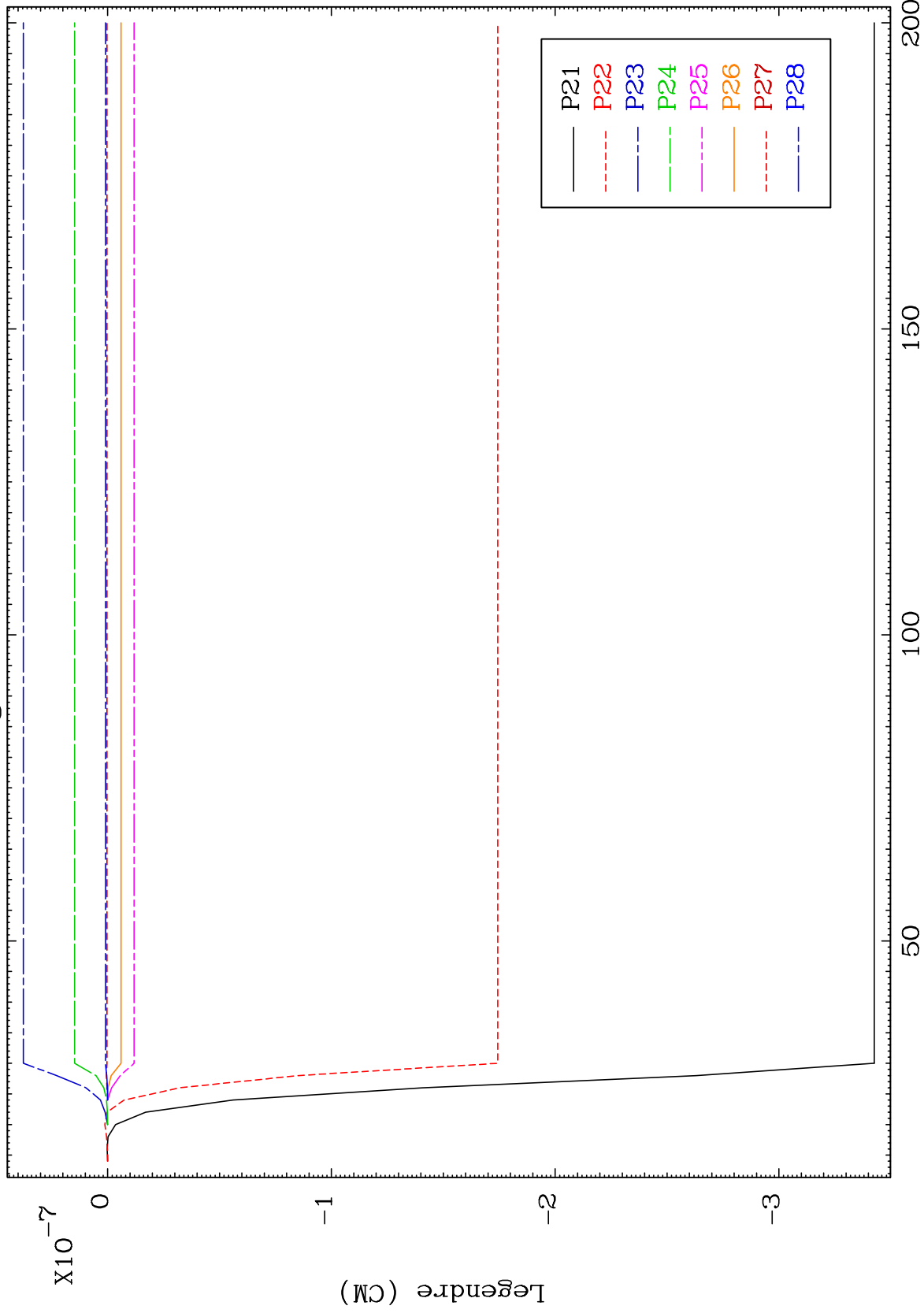
64-Gd-140



MAT 6389

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

64-Gd-140



83

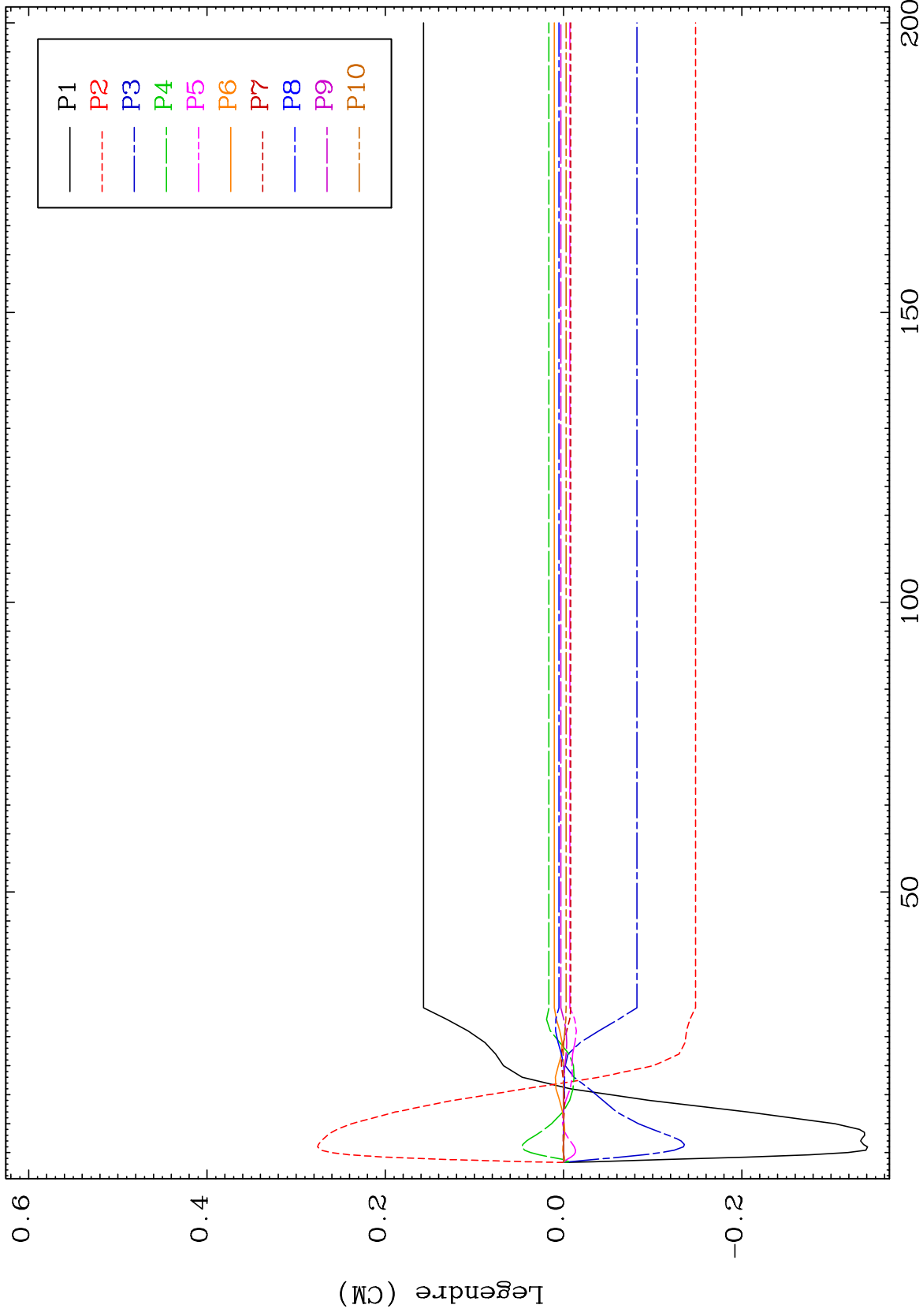
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



84

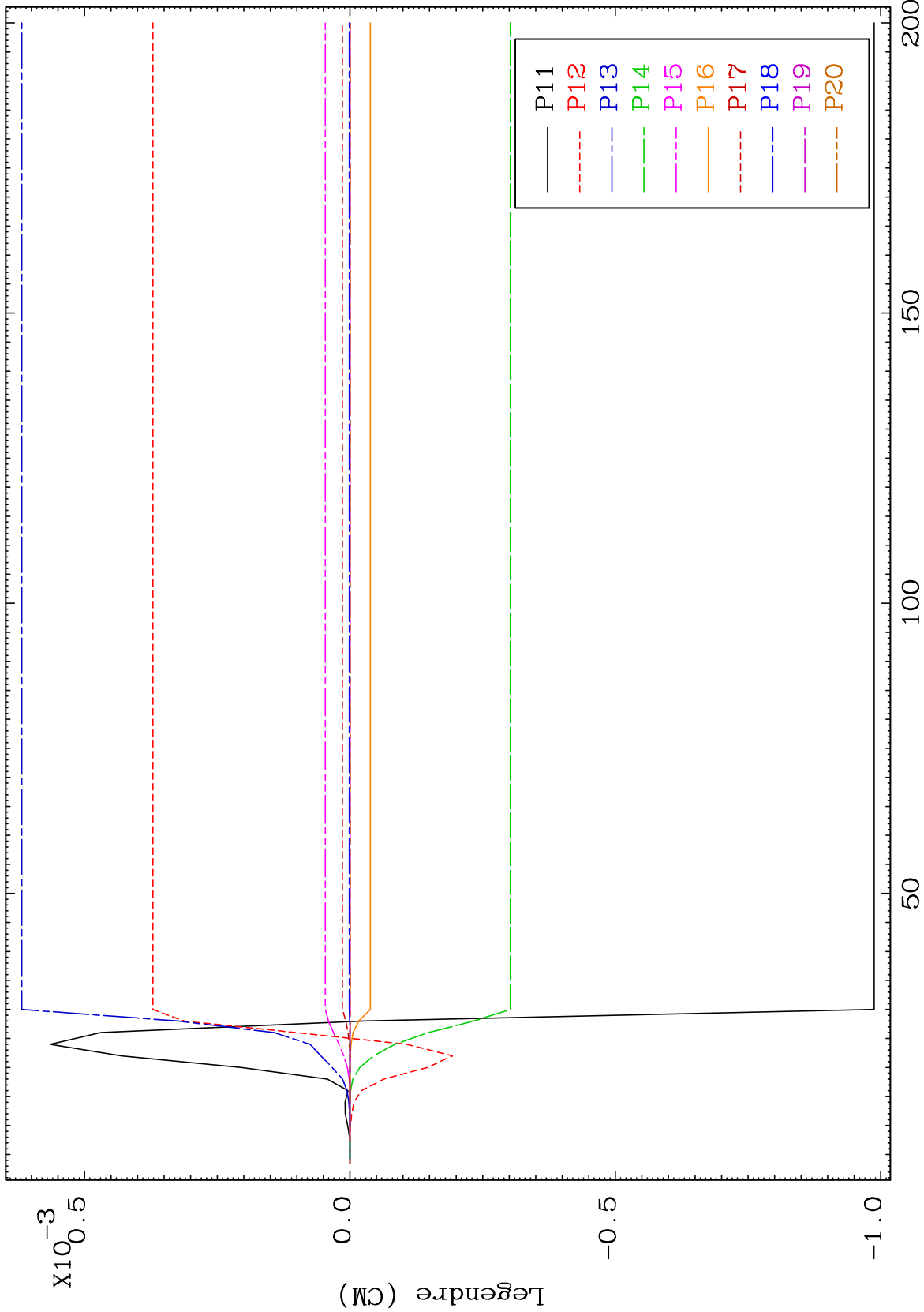
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

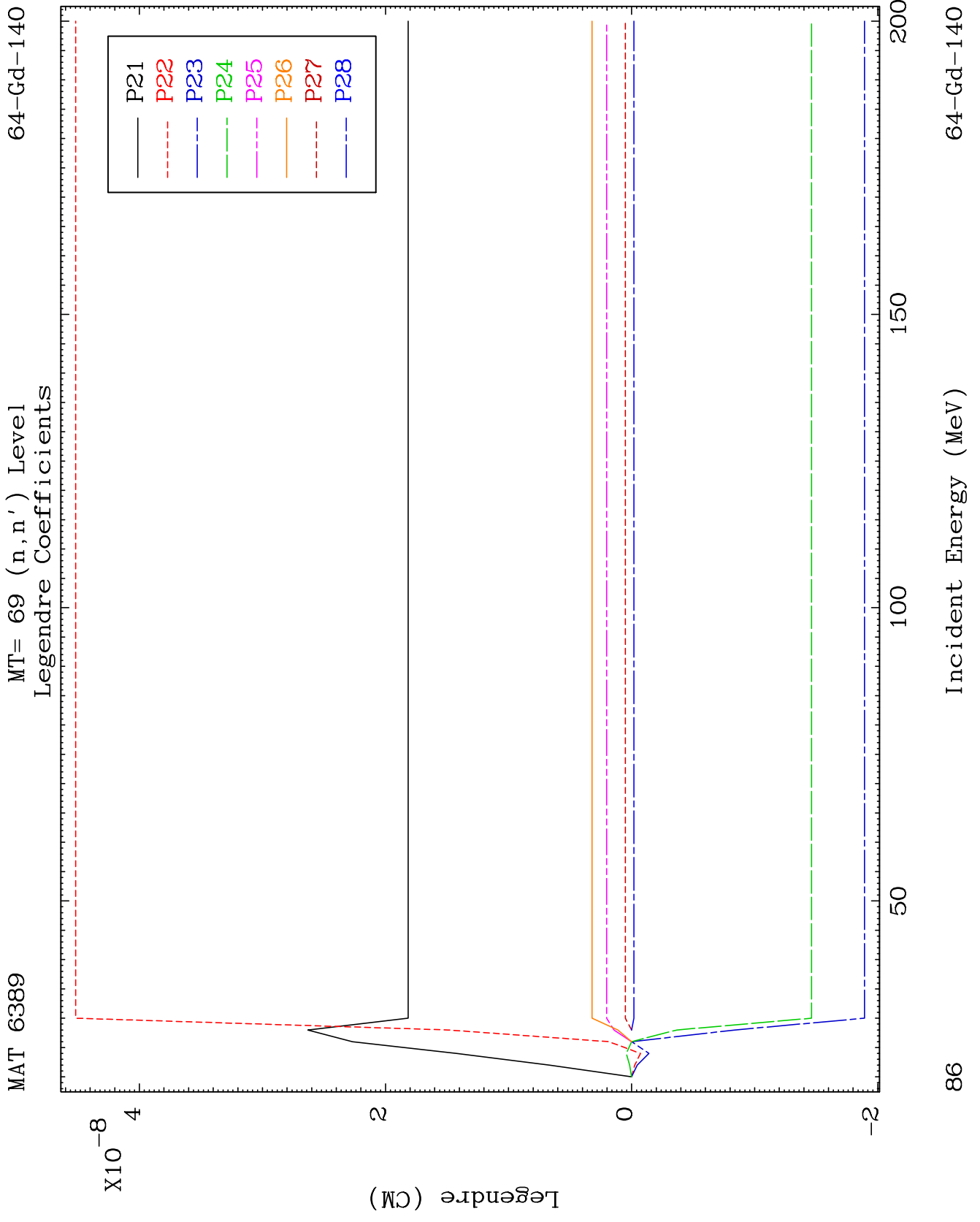
64-Gd-140



85

Incident Energy (MeV)

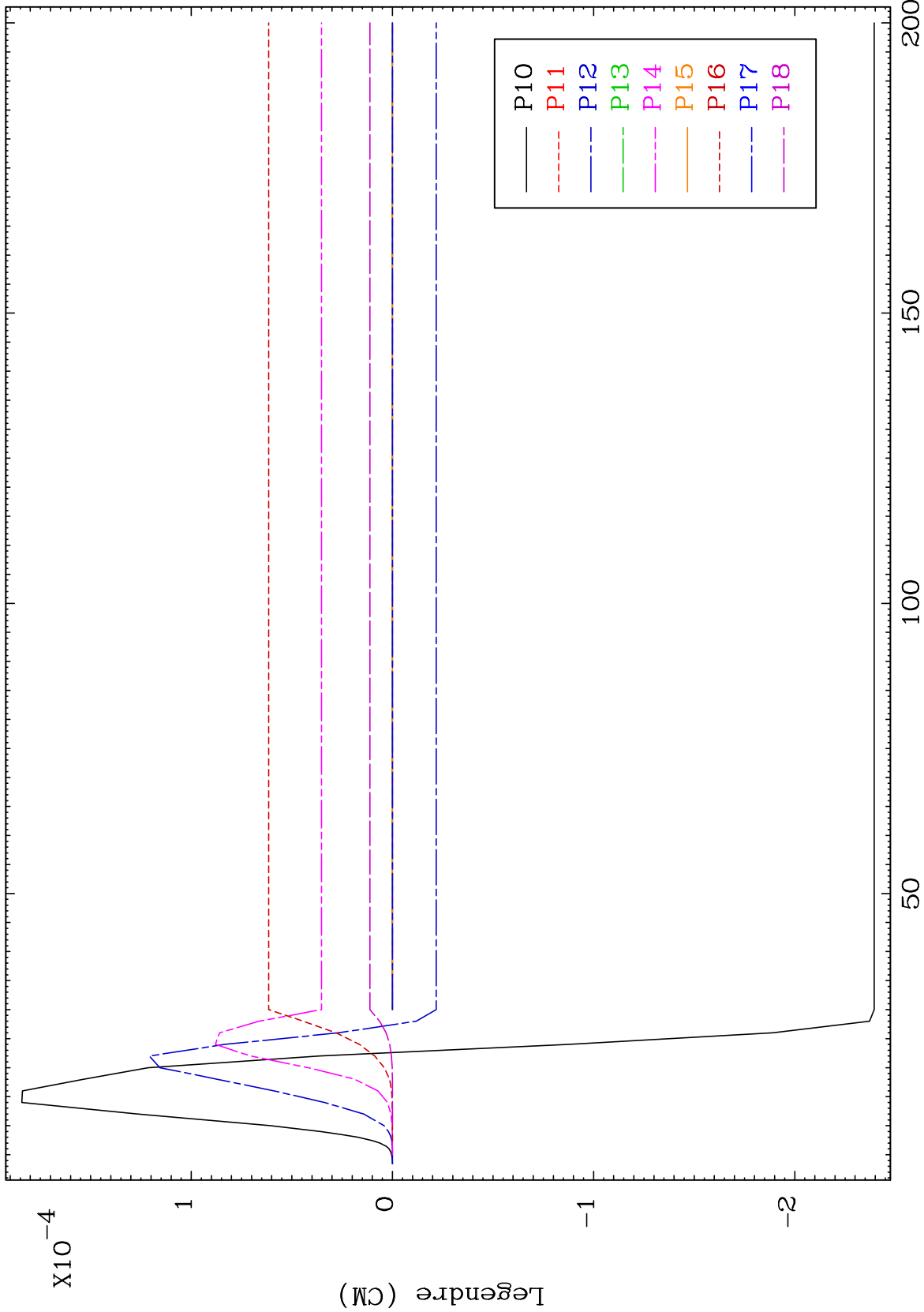
64-Gd-140



MAT 6389

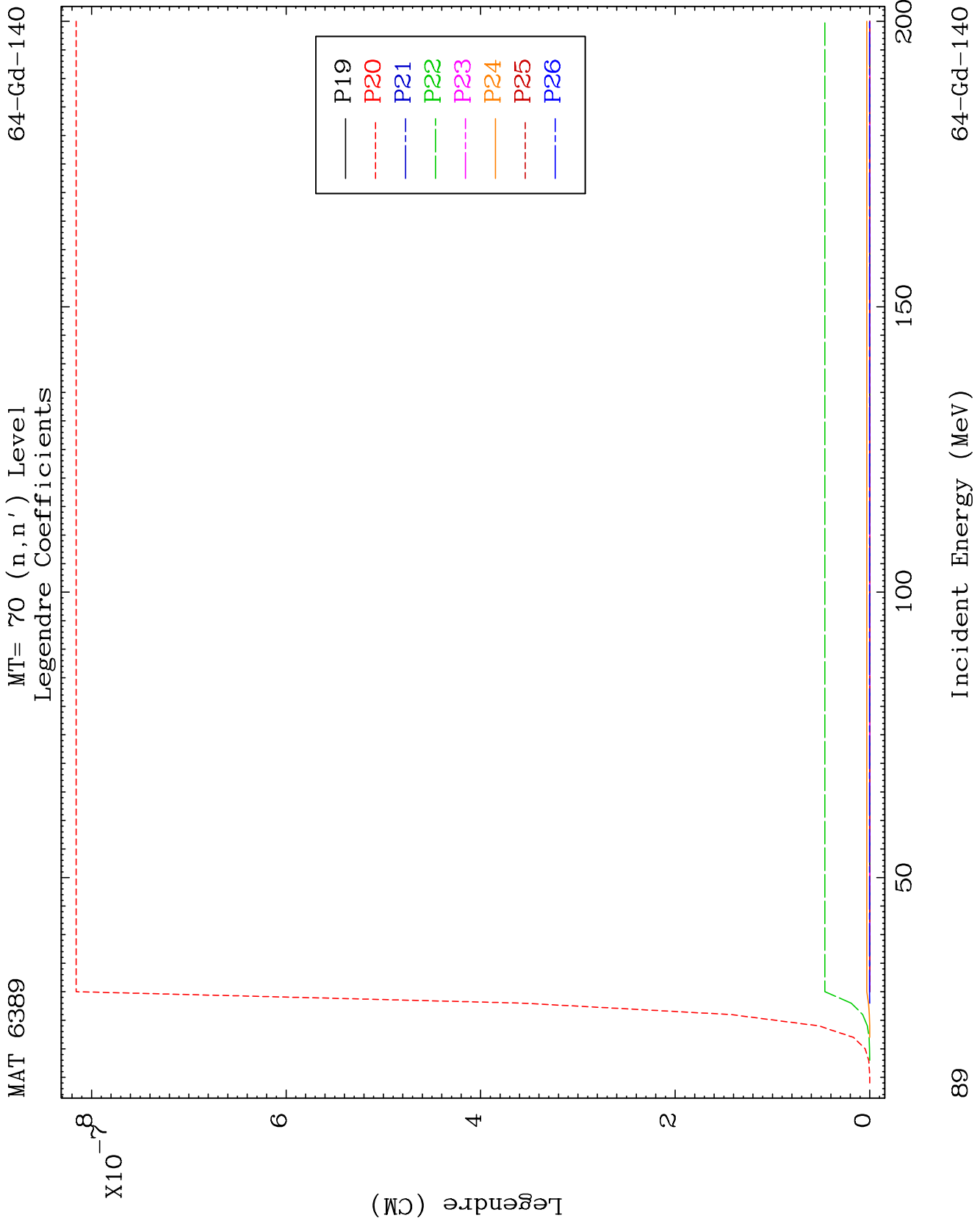
MT= 70 (n,n') Level
Legendre Coefficients

64-Gd-140



88

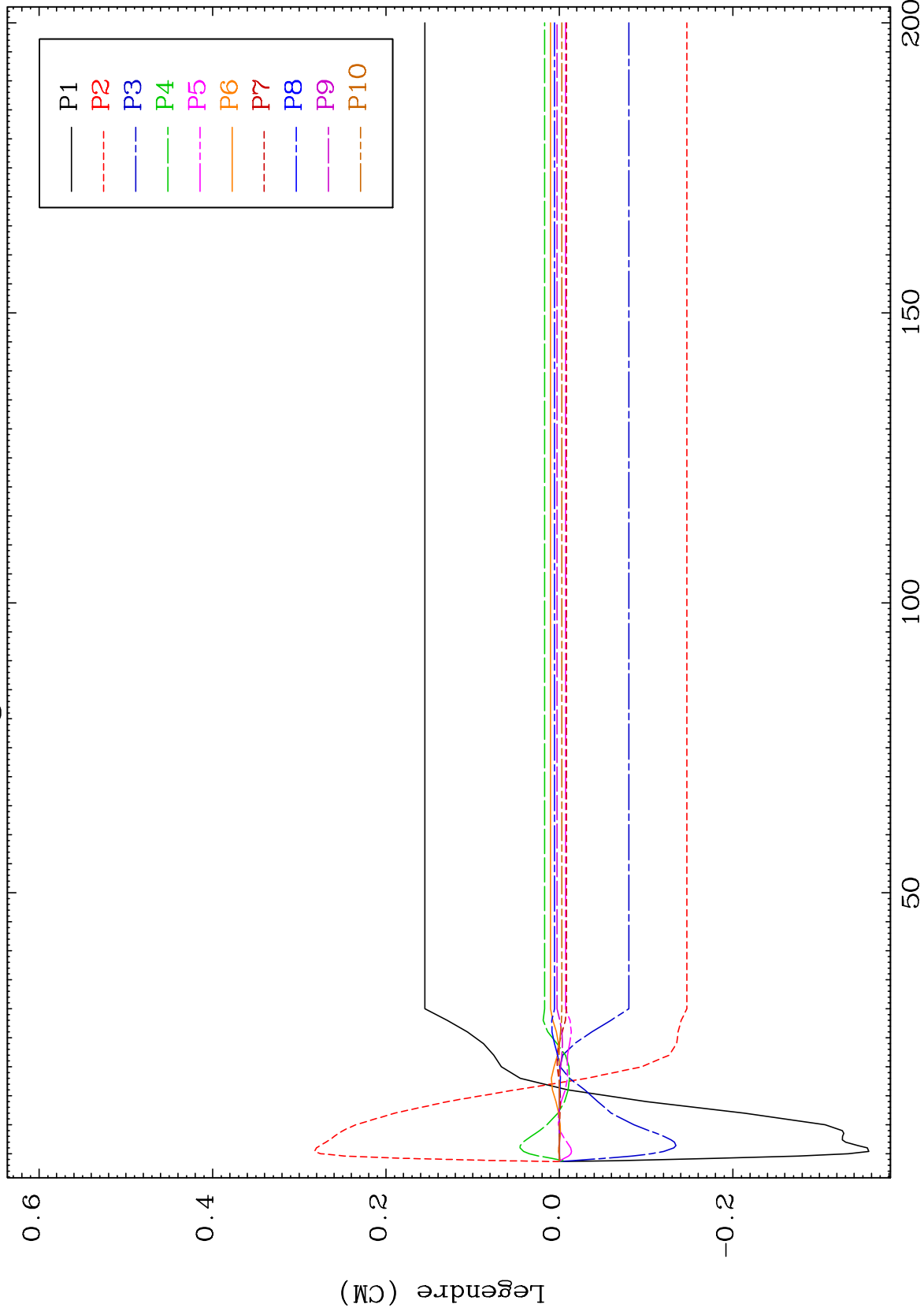
64-Gd-140



MAT 6389

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

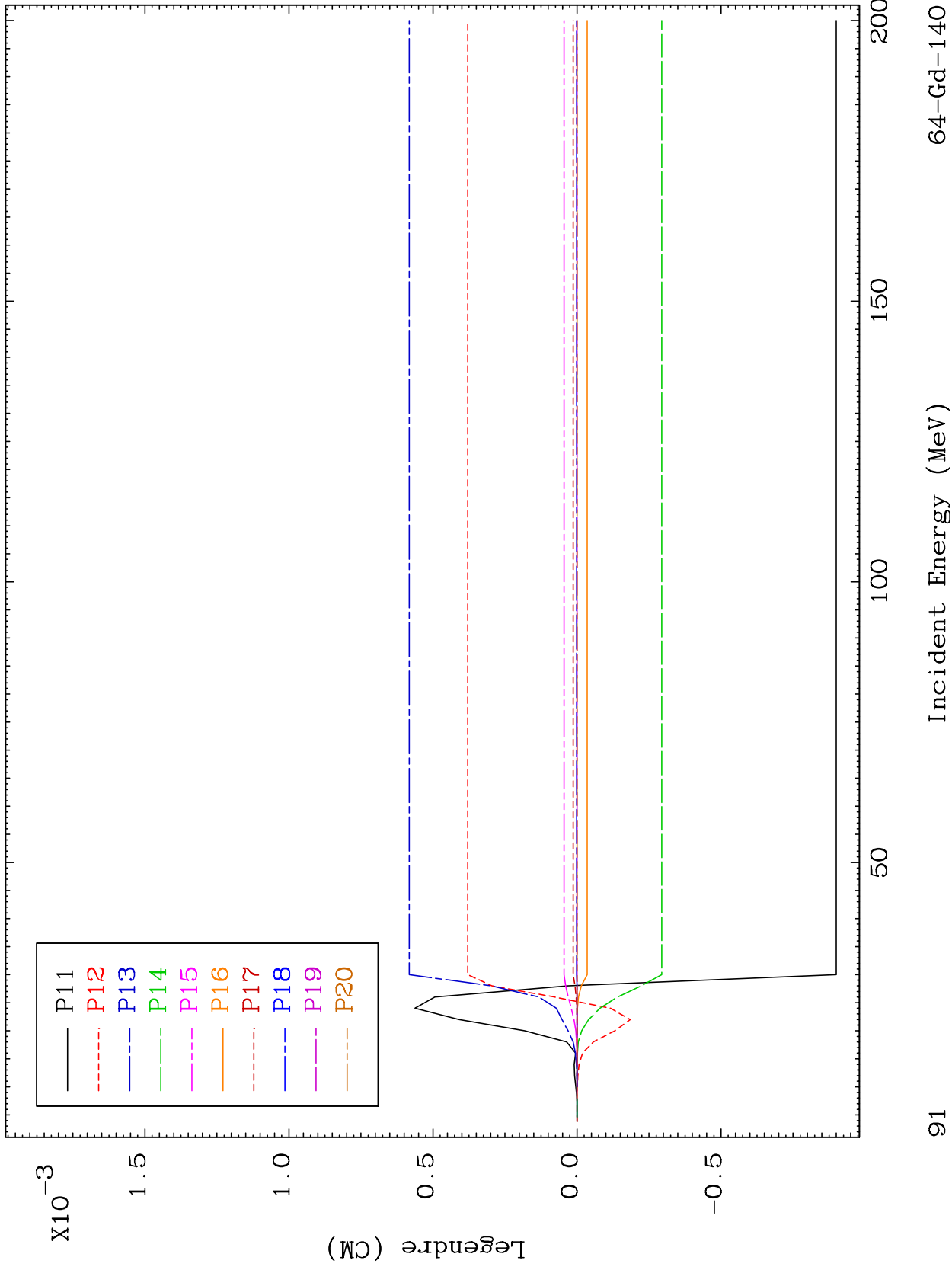
64-Gd-140



90

Incident Energy (MeV)

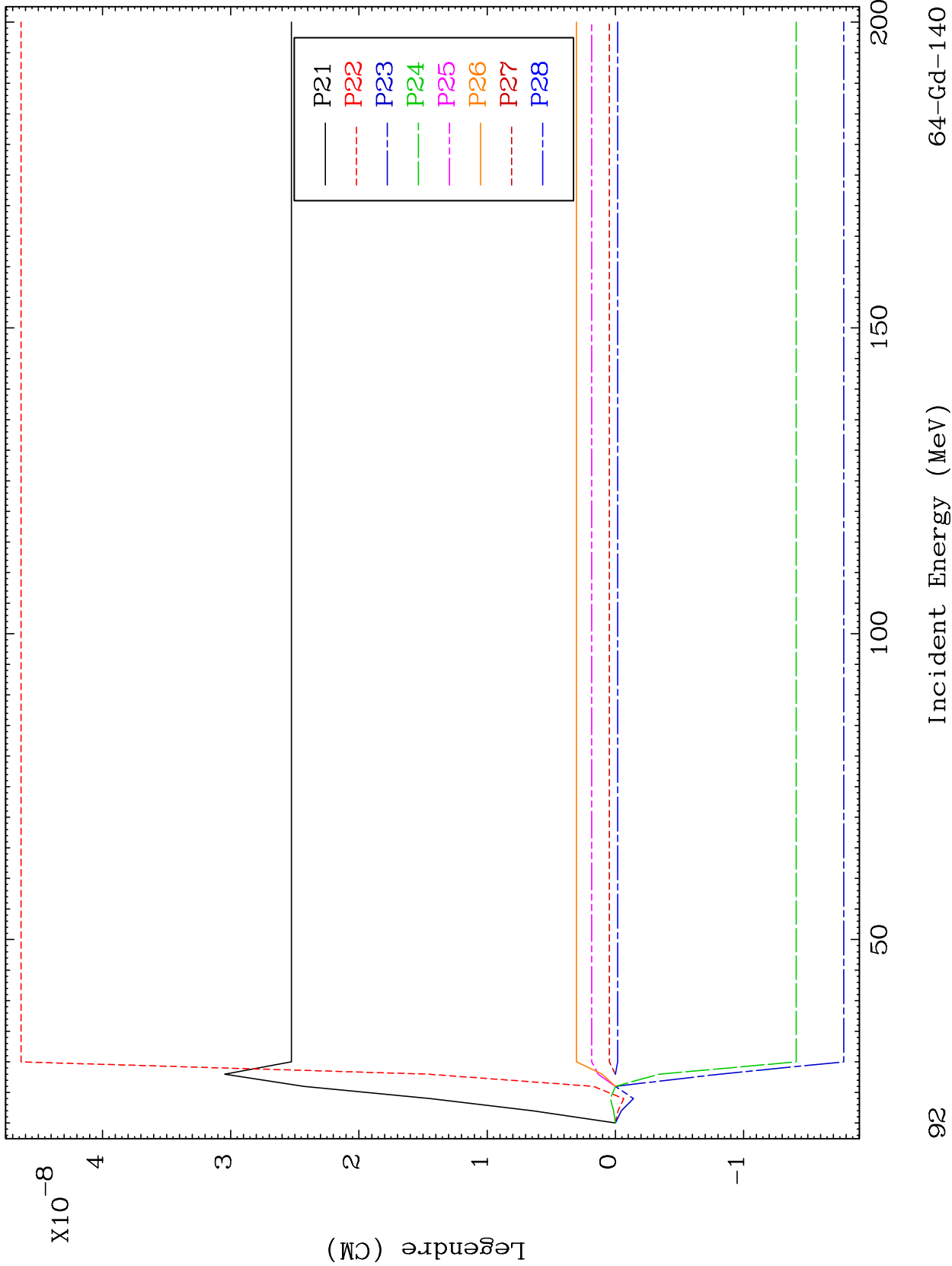
64-Gd-140



MAT 6389

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

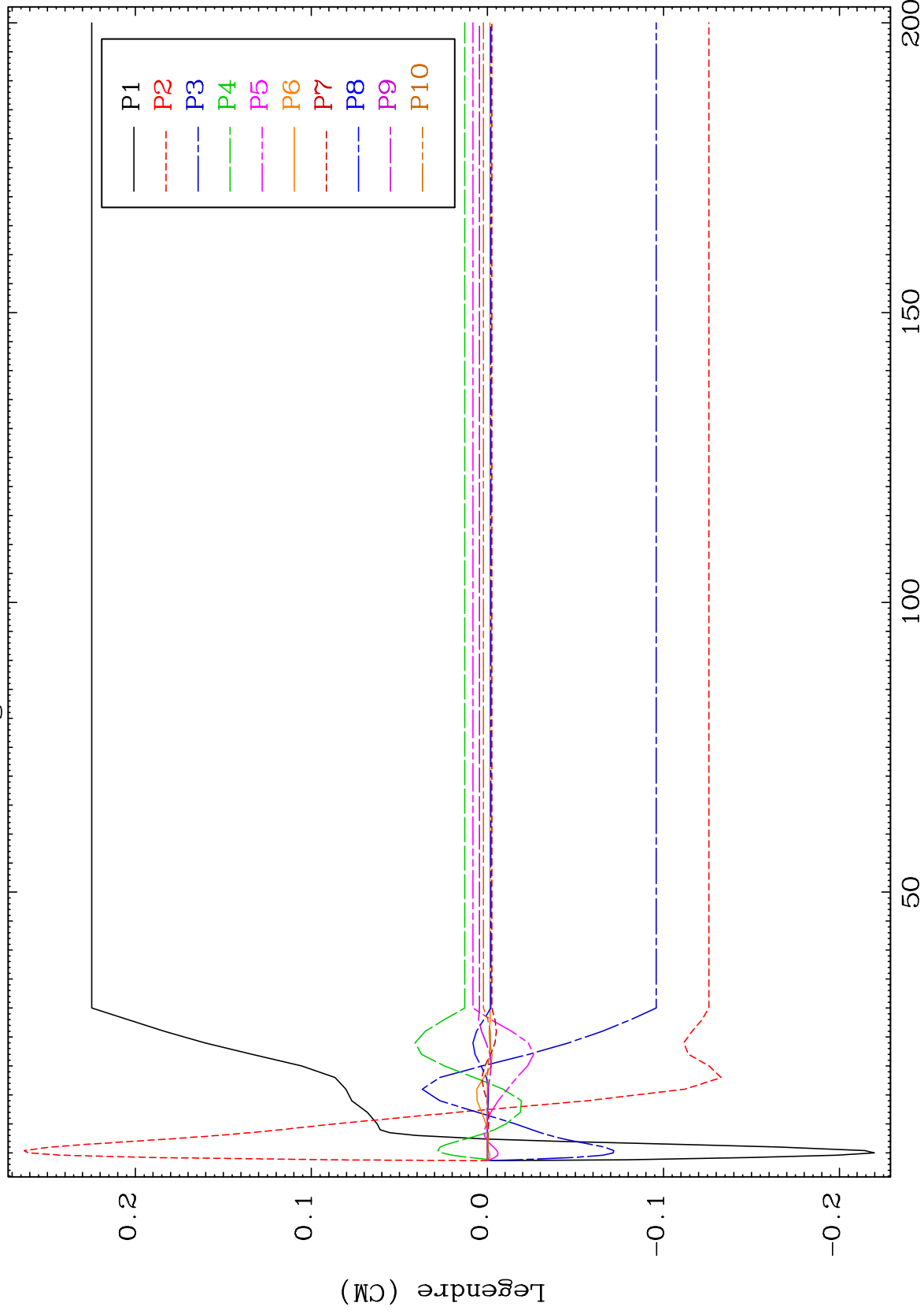
64-Gd-140



MAT 6389

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

64-Gd-140



93

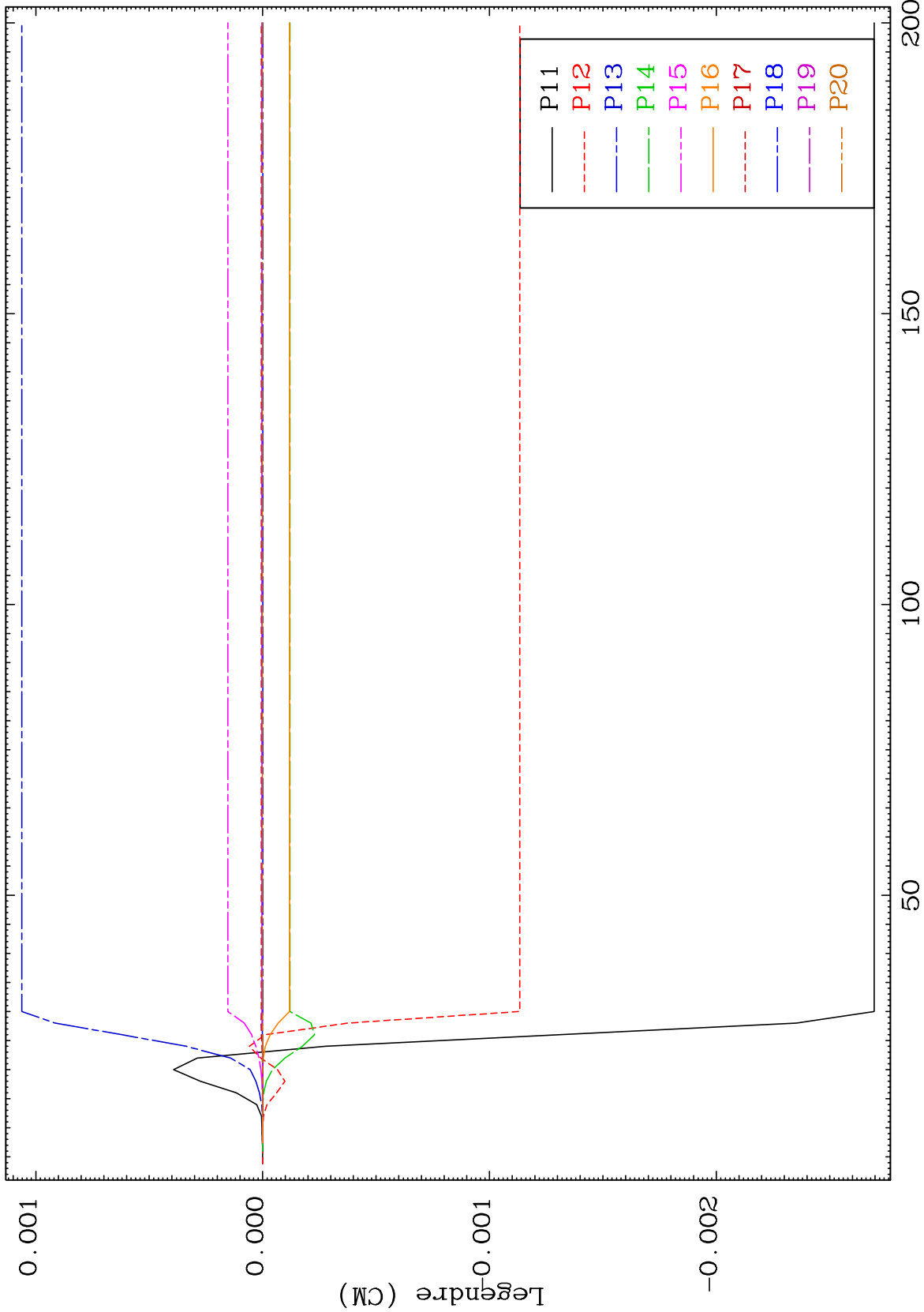
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



94

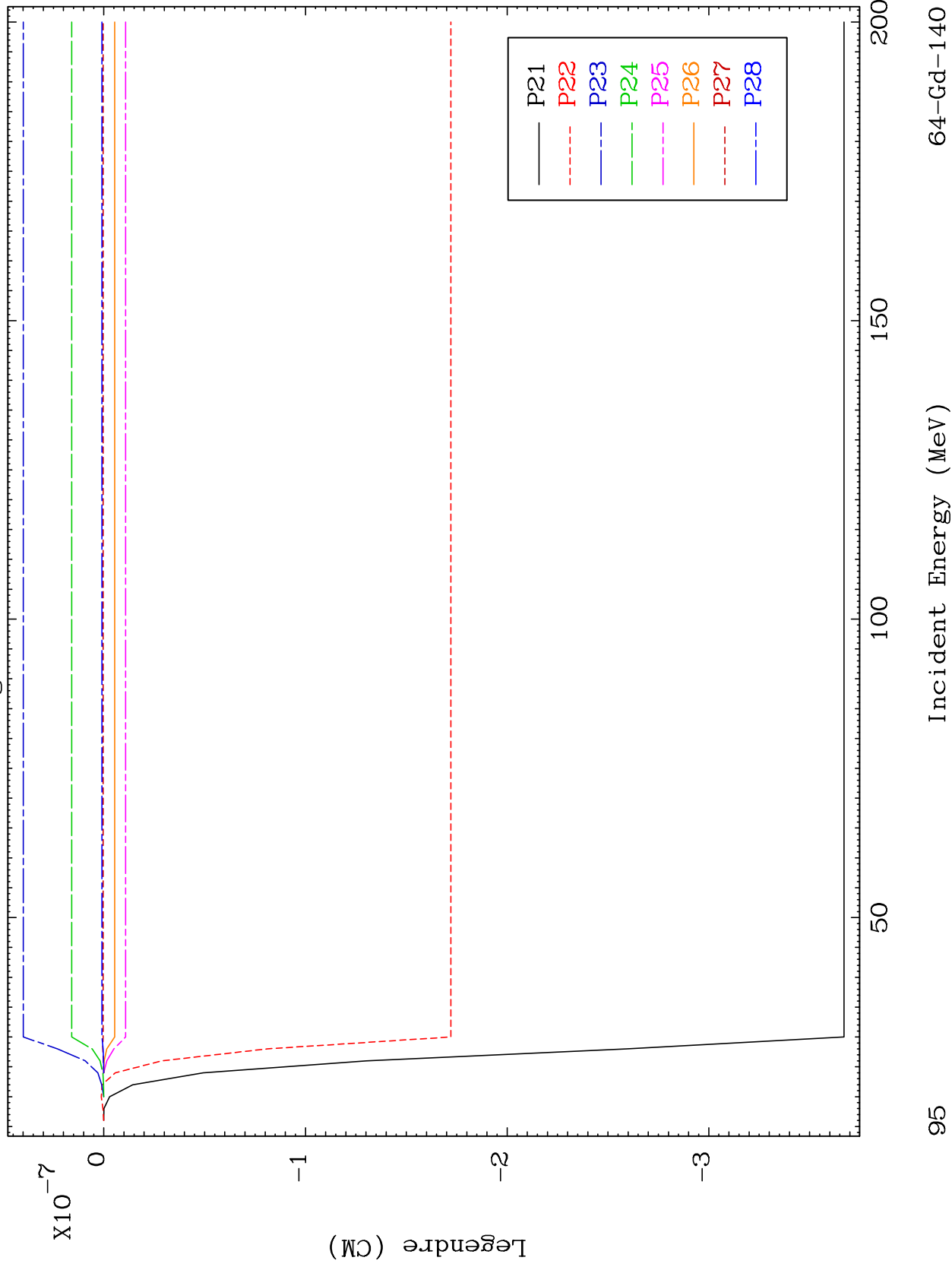
Incident Energy (MeV)

64-Gd-140

MAT 6389

64-Gd-140

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



95

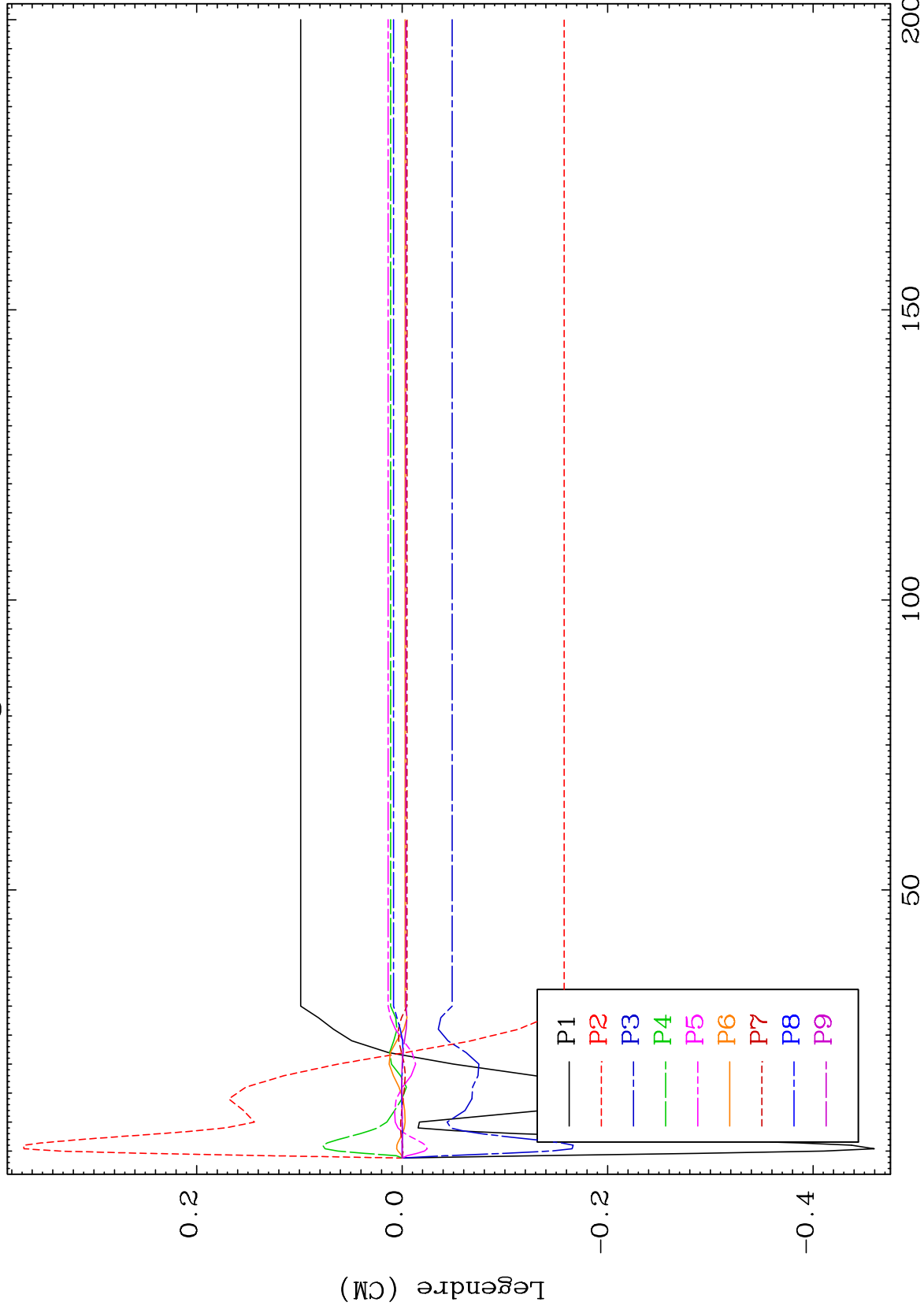
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



96

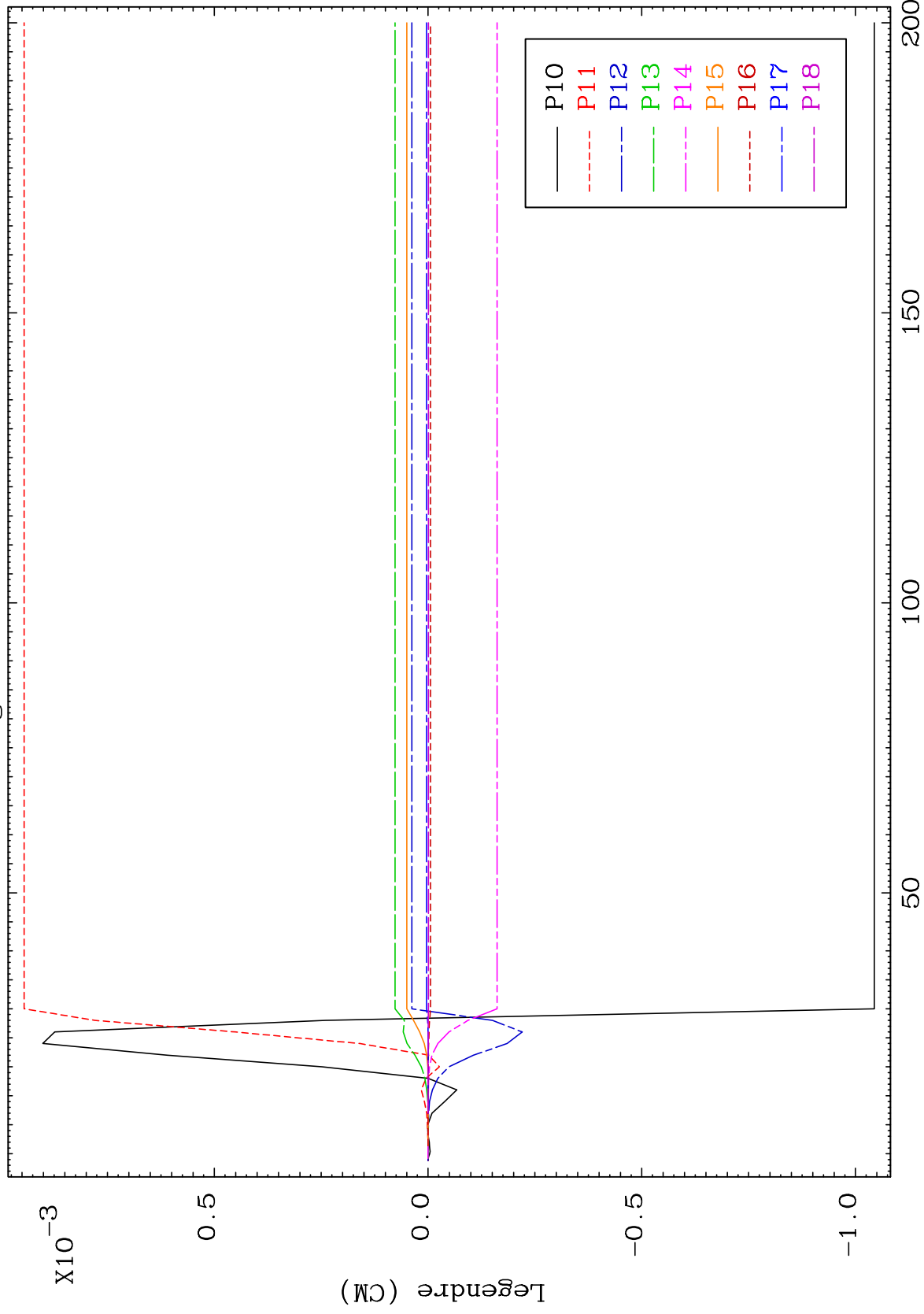
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



97

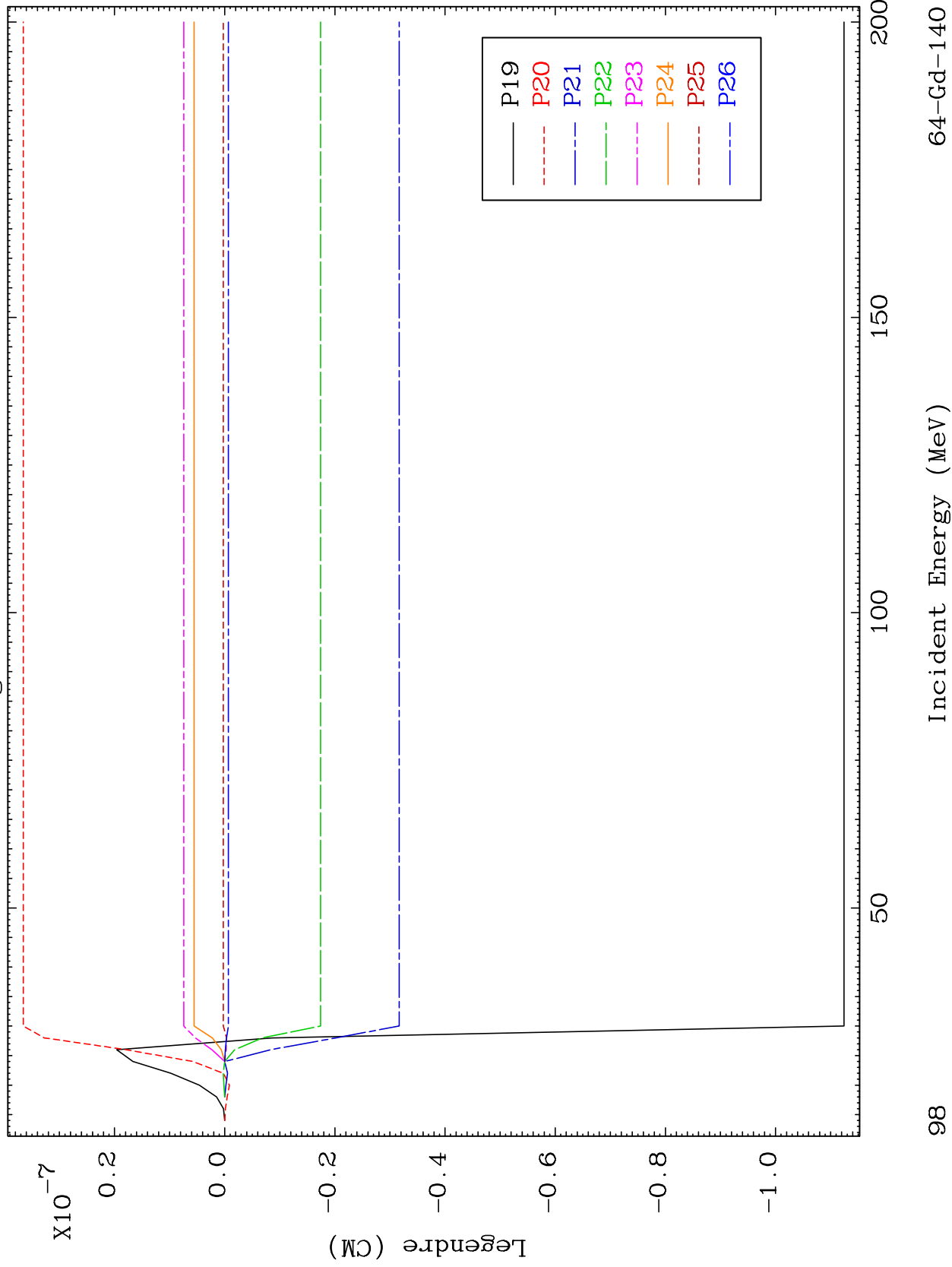
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



98

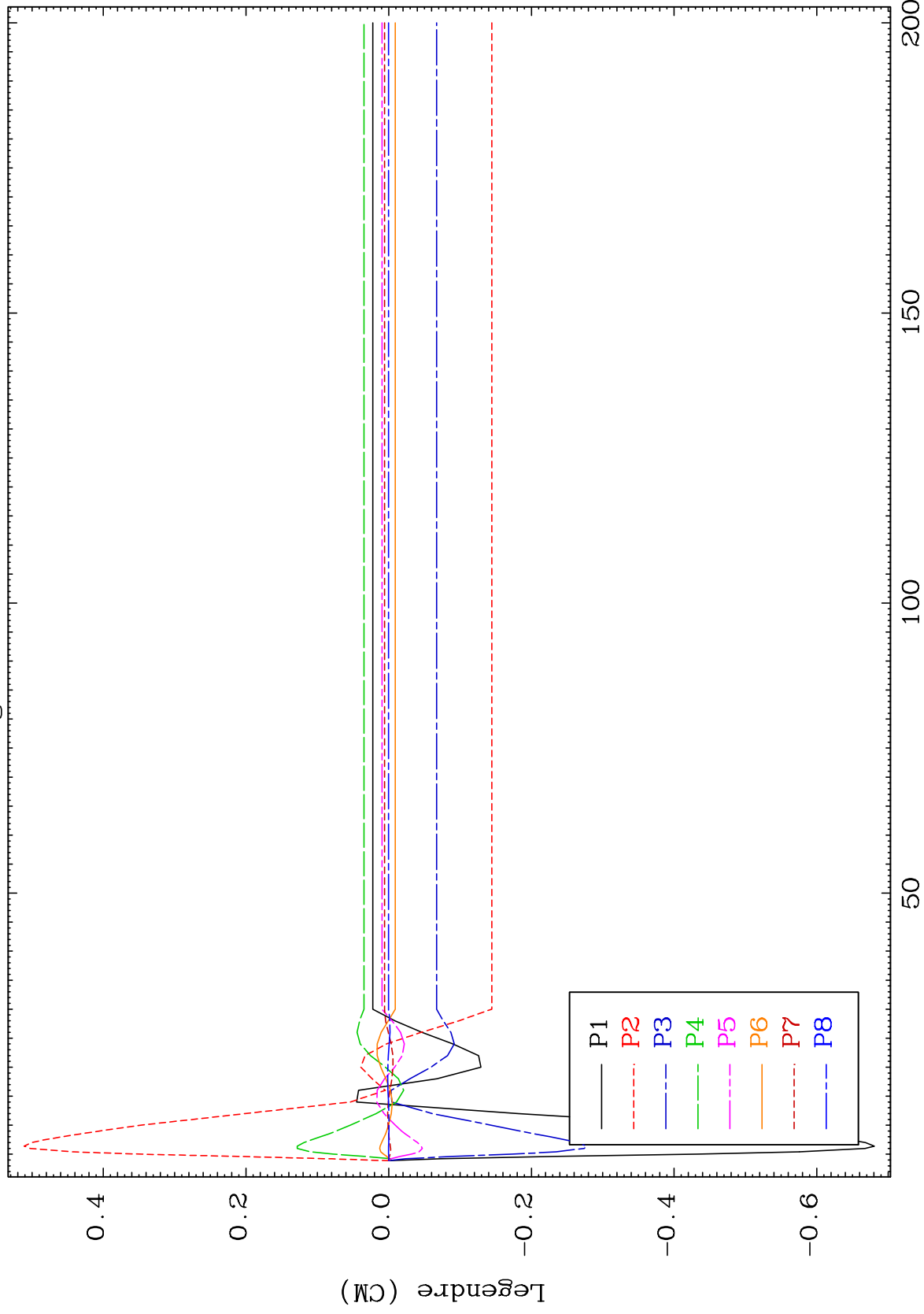
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



99

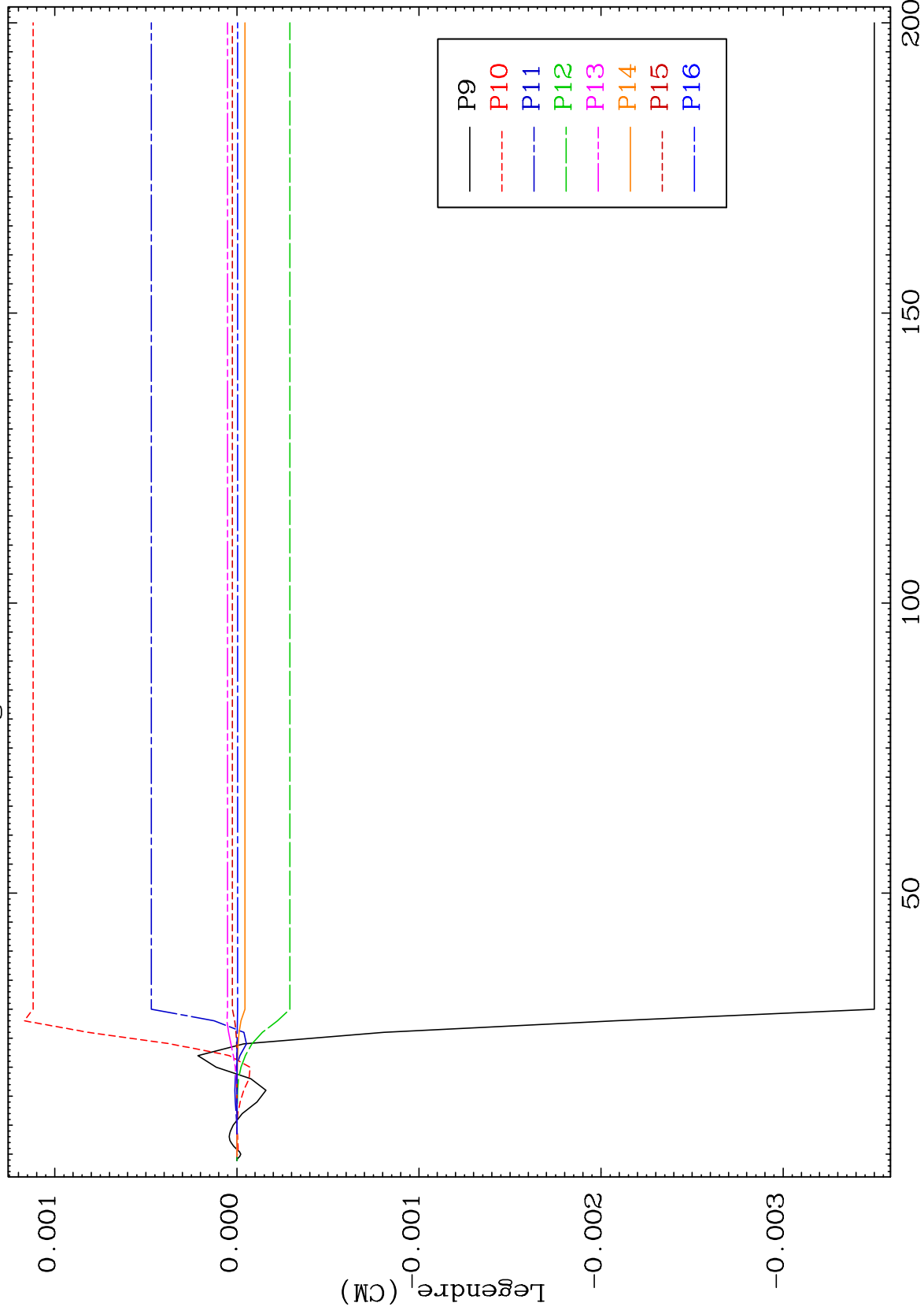
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



100

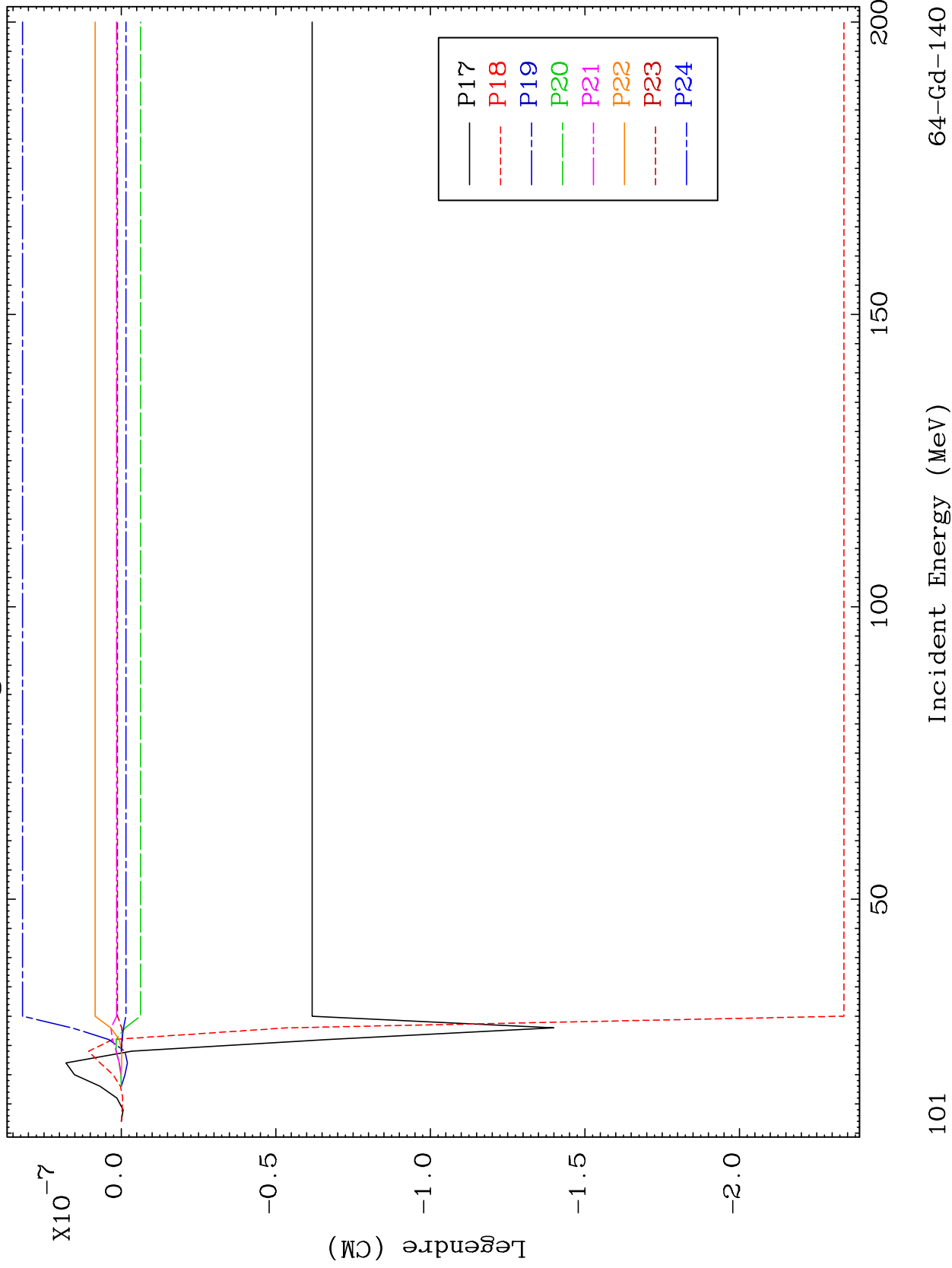
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



101

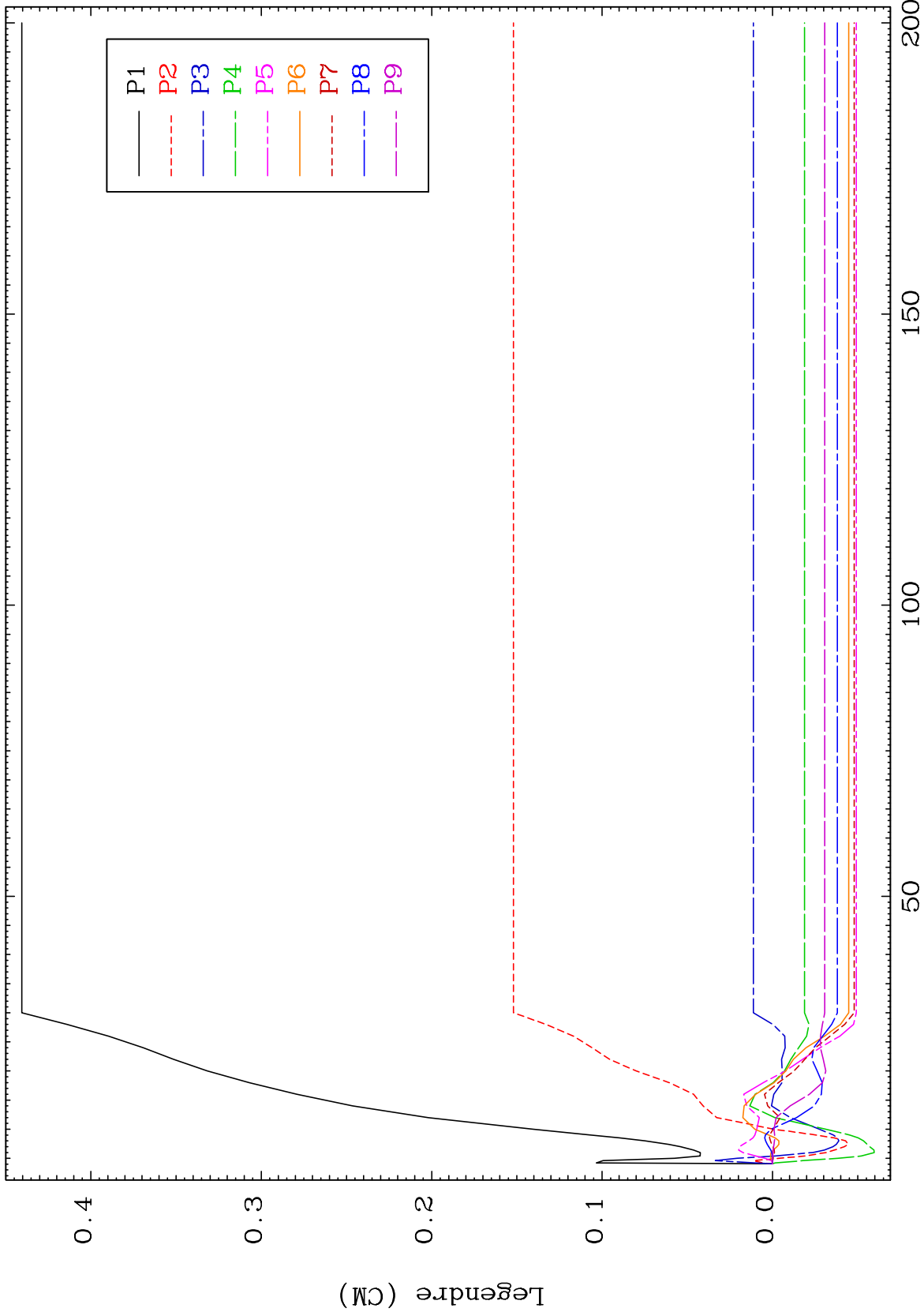
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

64-Gd-140



102

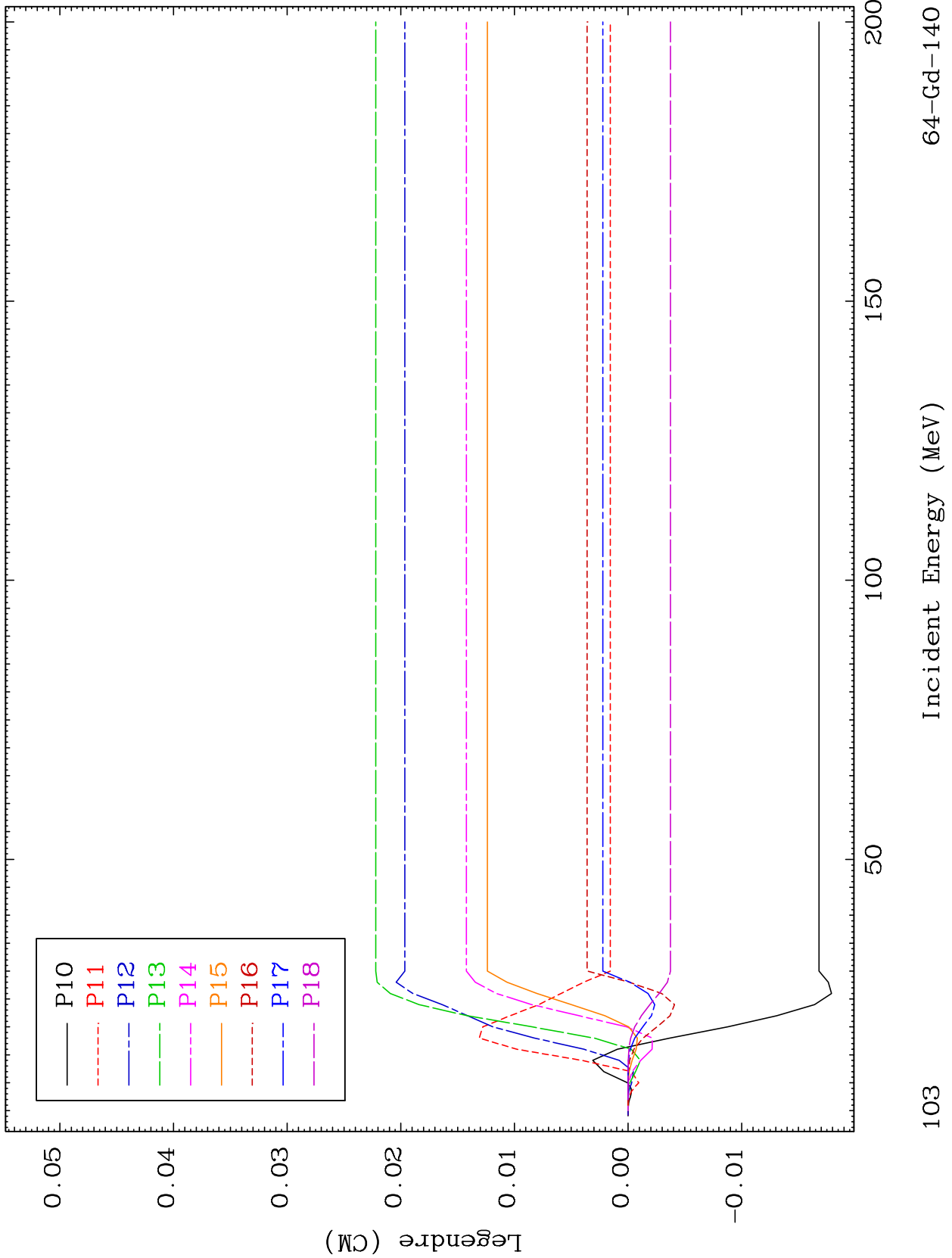
Incident Energy (MeV)

64-Gd-140

MAT 6389

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

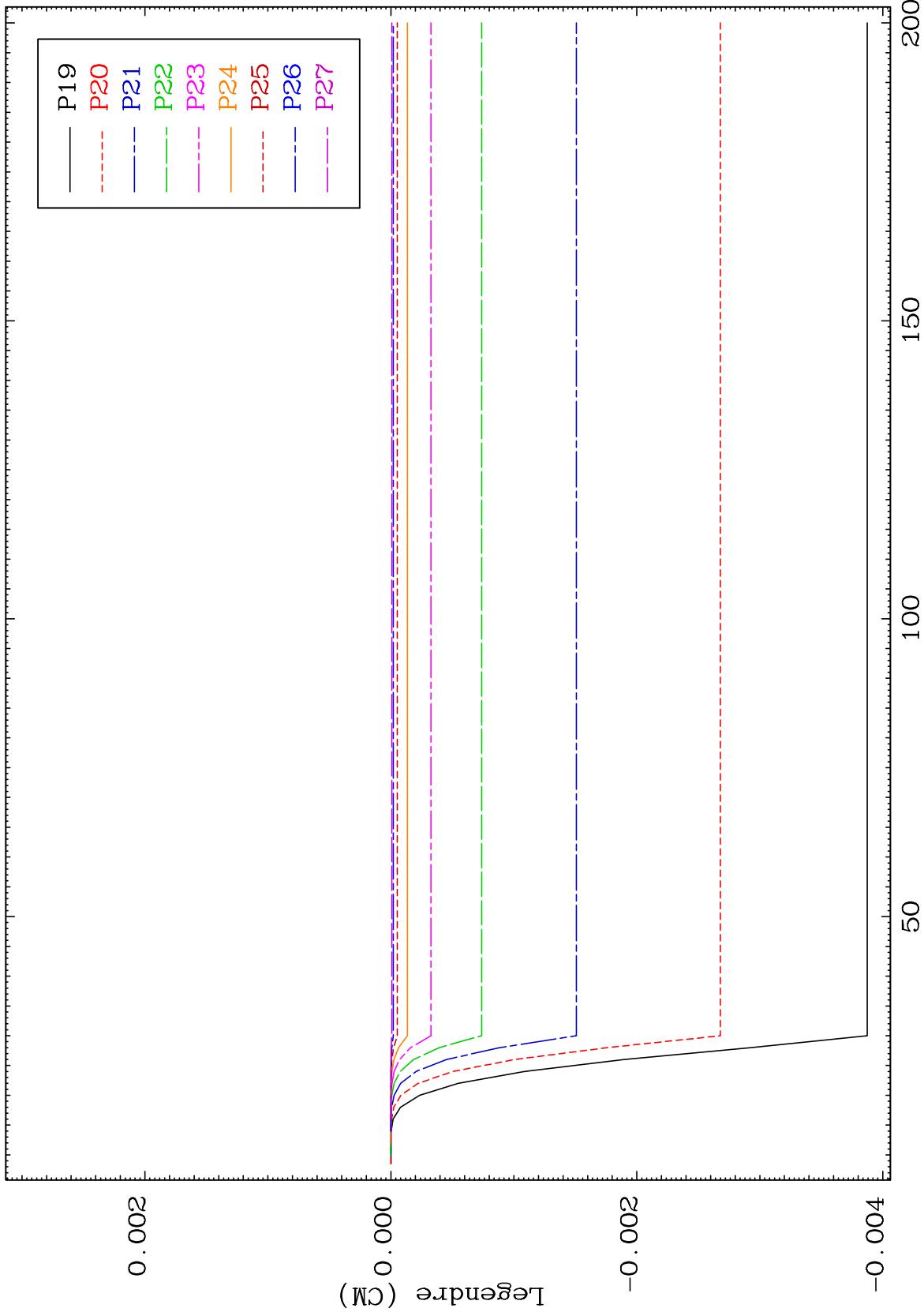
64-Gd-140



MAT 6389

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

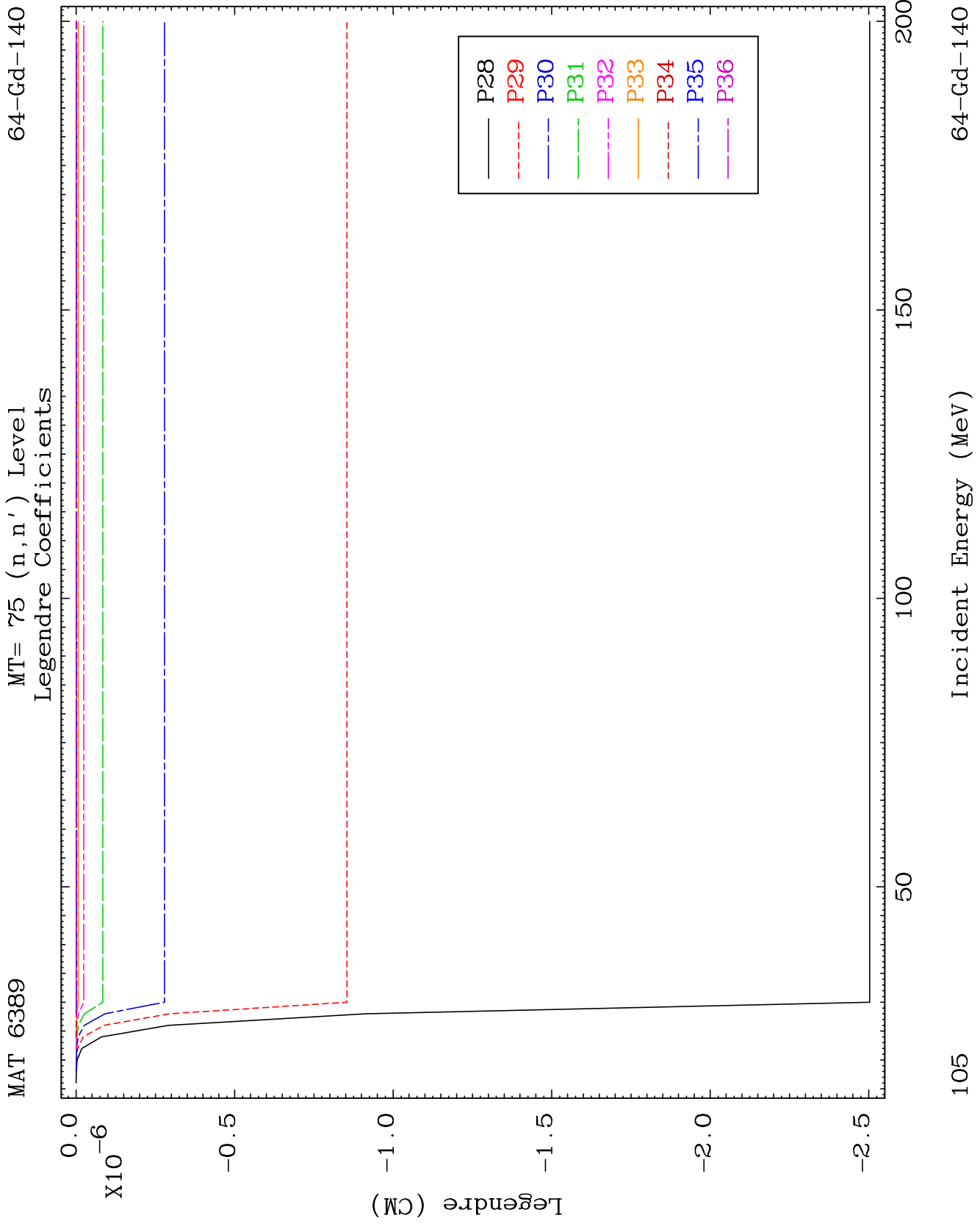
64-Gd-140



104

Incident Energy (MeV)

64-Gd-140

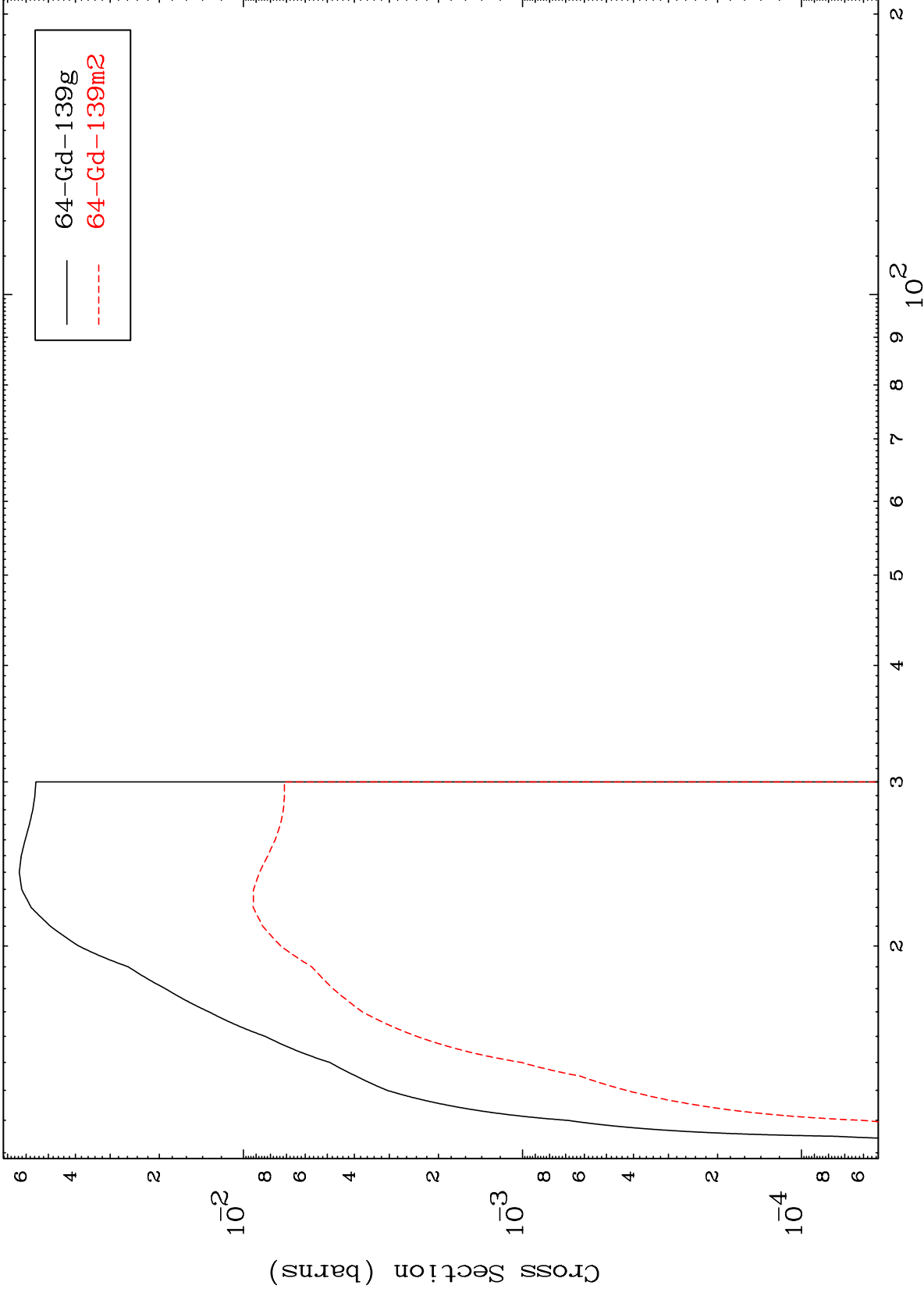


MAT 6389

(n,2n)

64-Gd-140

Radionuclide Production Cross Section



64-Gd-139g
64-Gd-139m2

106

Incident Energy (MeV)

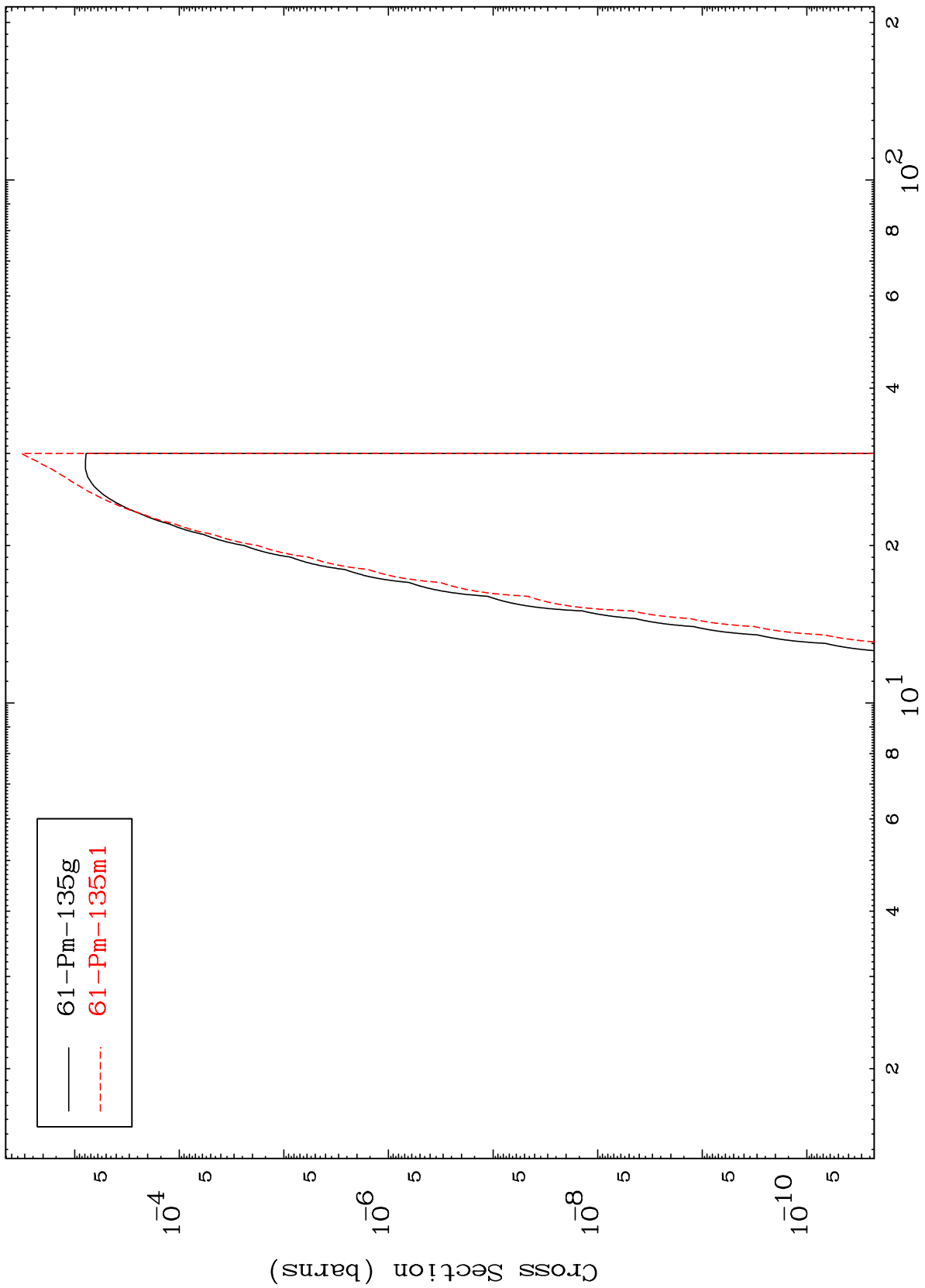
64-Gd-140

MAT 6389

(n,n') p α

64-Gd-140

Radionuclide Production Cross Section



107

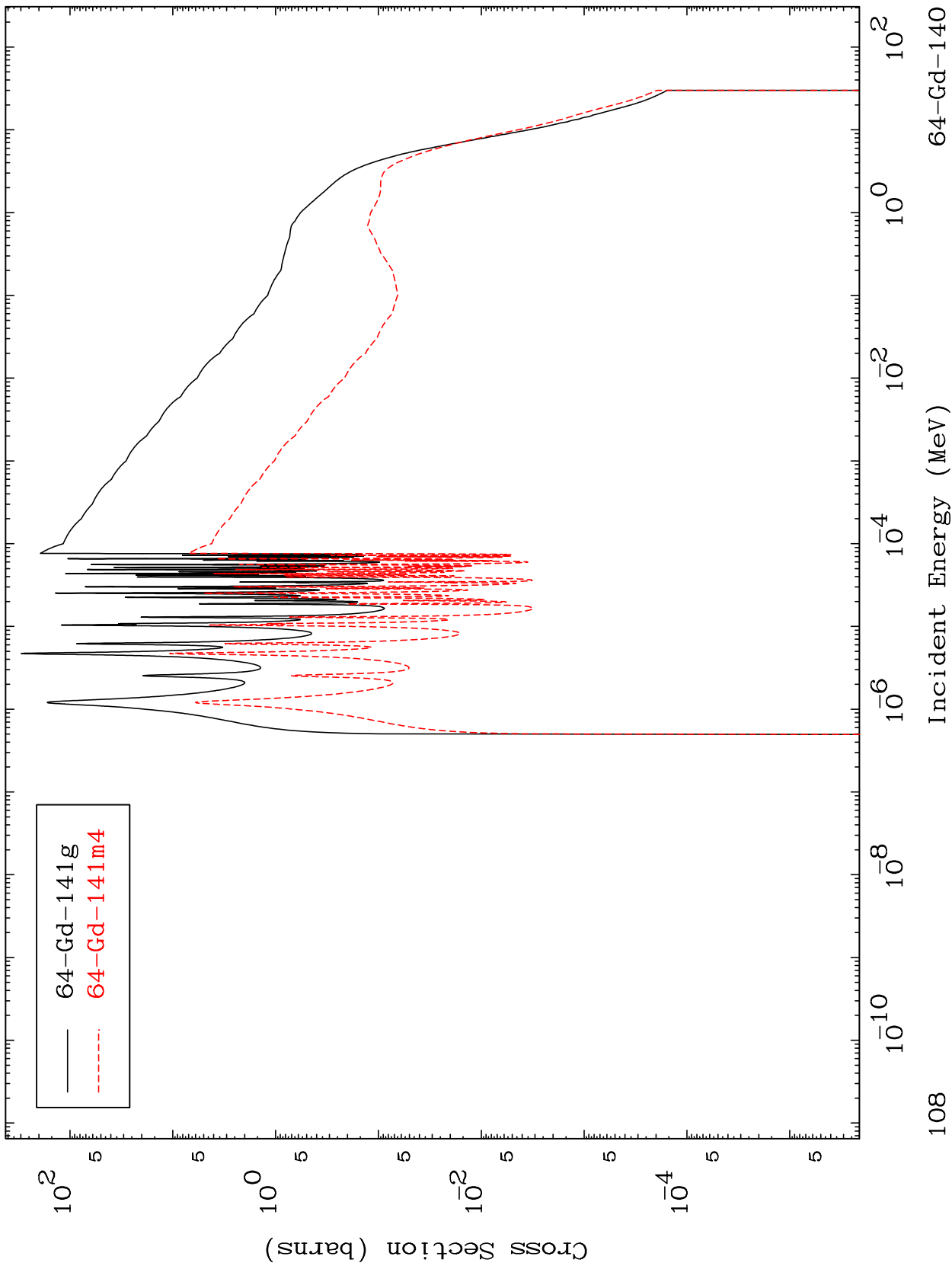
Incident Energy (MeV)

64-Gd-140

MAT 6389

64-Gd-140

(n,γ)
Radionuclide Production Cross Section



108

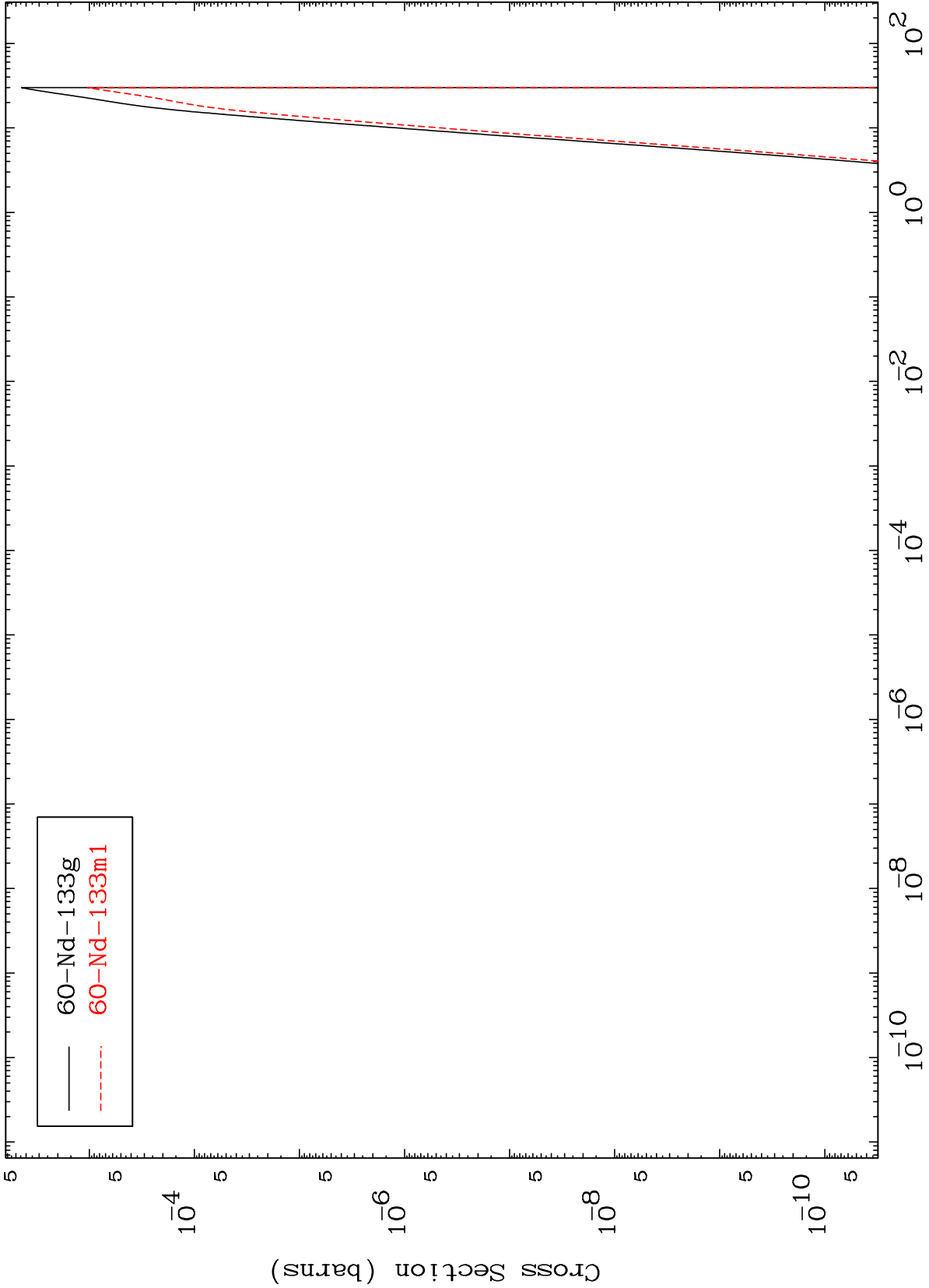
64-Gd-140

MAT 6389

(n,2α)

64-Gd-140

Radionuclide Production Cross Section



60-Nd-133g
60-Nd-133m1

109

Incident Energy (MeV)

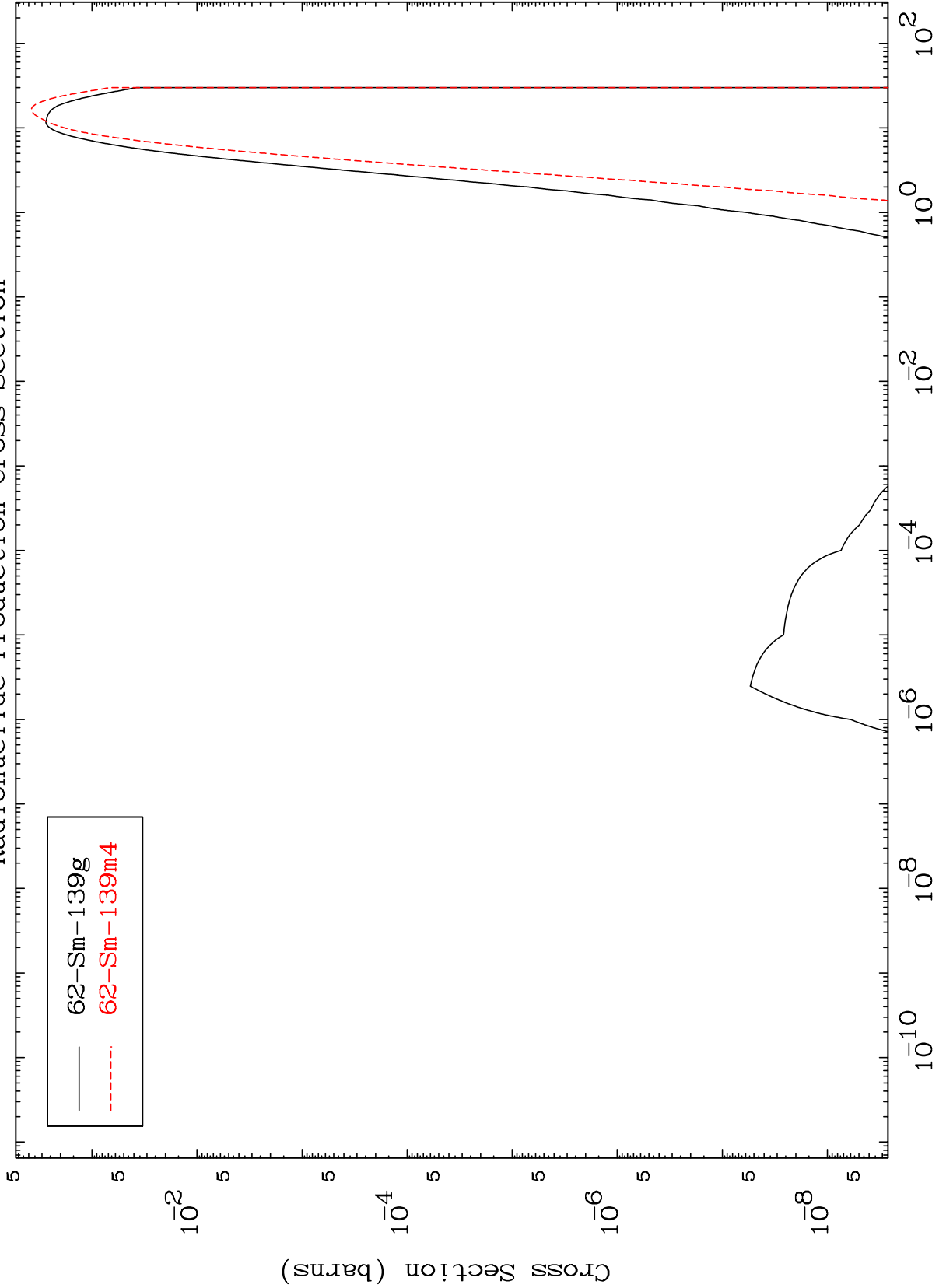
64-Gd-140

MAT 6389

(n,2p)

64-Gd-140

Radionuclide Production Cross Section



110

Incident Energy (MeV)

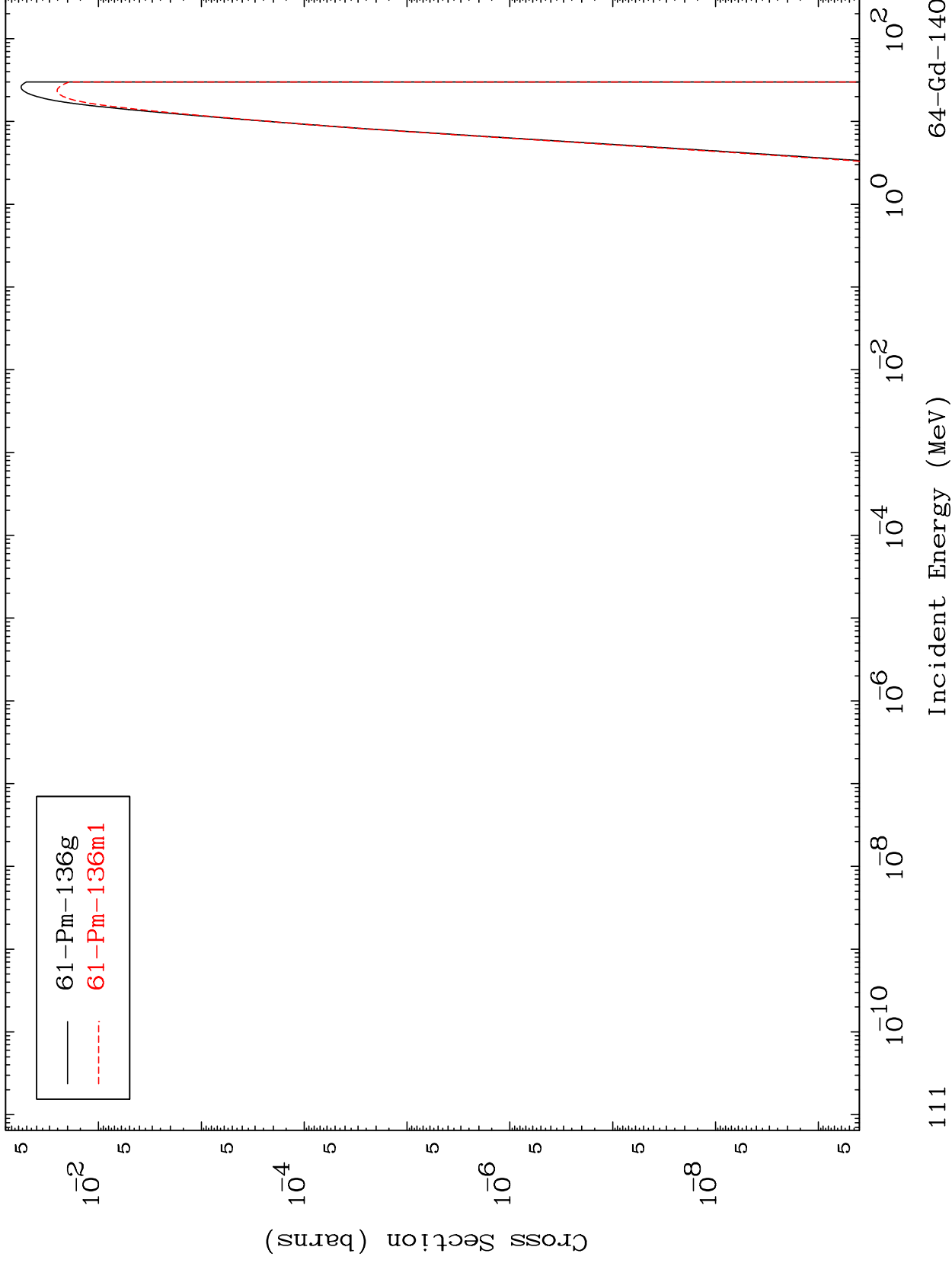
64-Gd-140

MAT 6389

(n,p) α

64-Gd-140

Radionuclide Production Cross Section

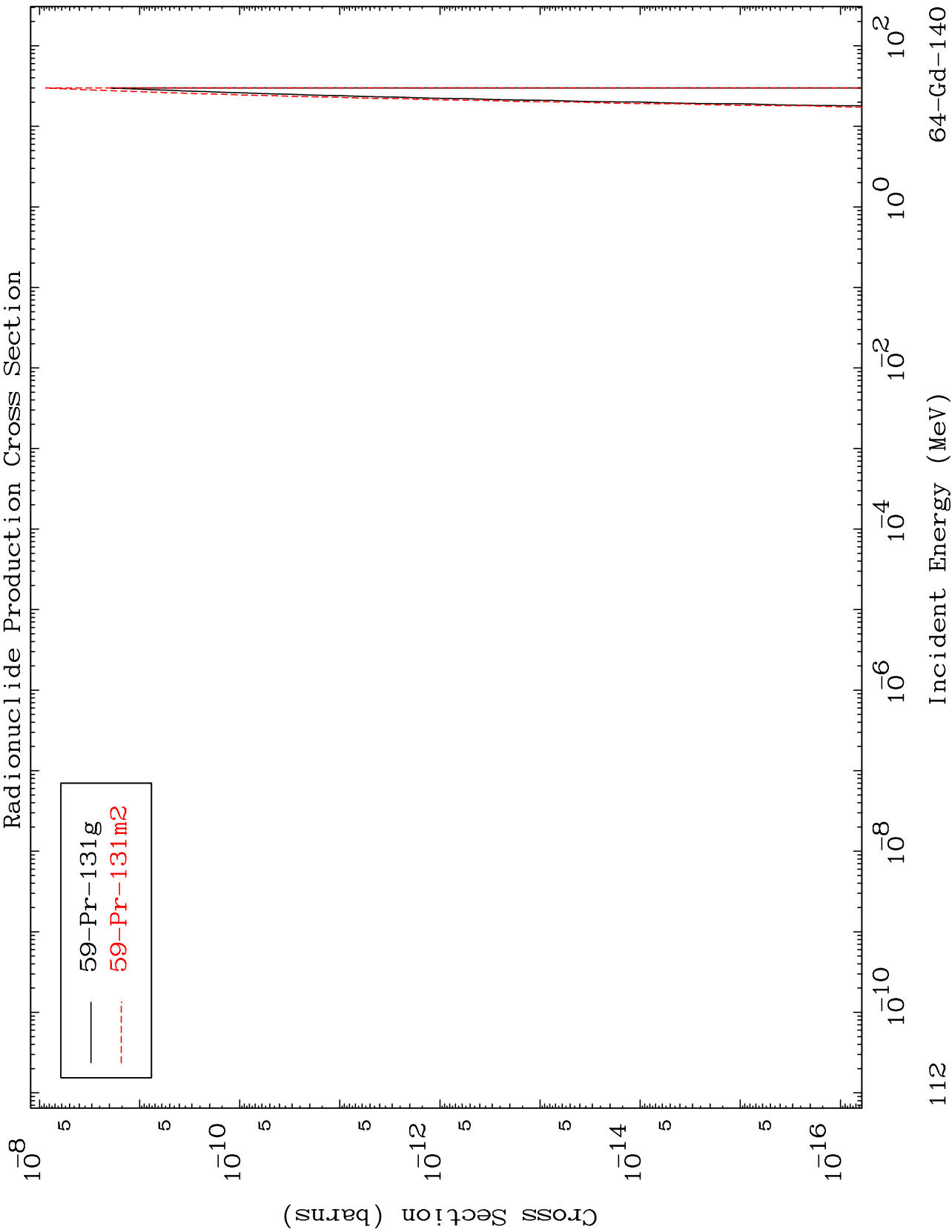


MAT 6389

(n,d) 2 α

64-Gd-140

Radionuclide Production Cross Section



59-Pr-131g
59-Pr-131m2

MAT 6389

(n,d) α

64-Gd-140

Radionuclide Production Cross Section

