

Program EVALPLOT
(Version 2021-1)

by

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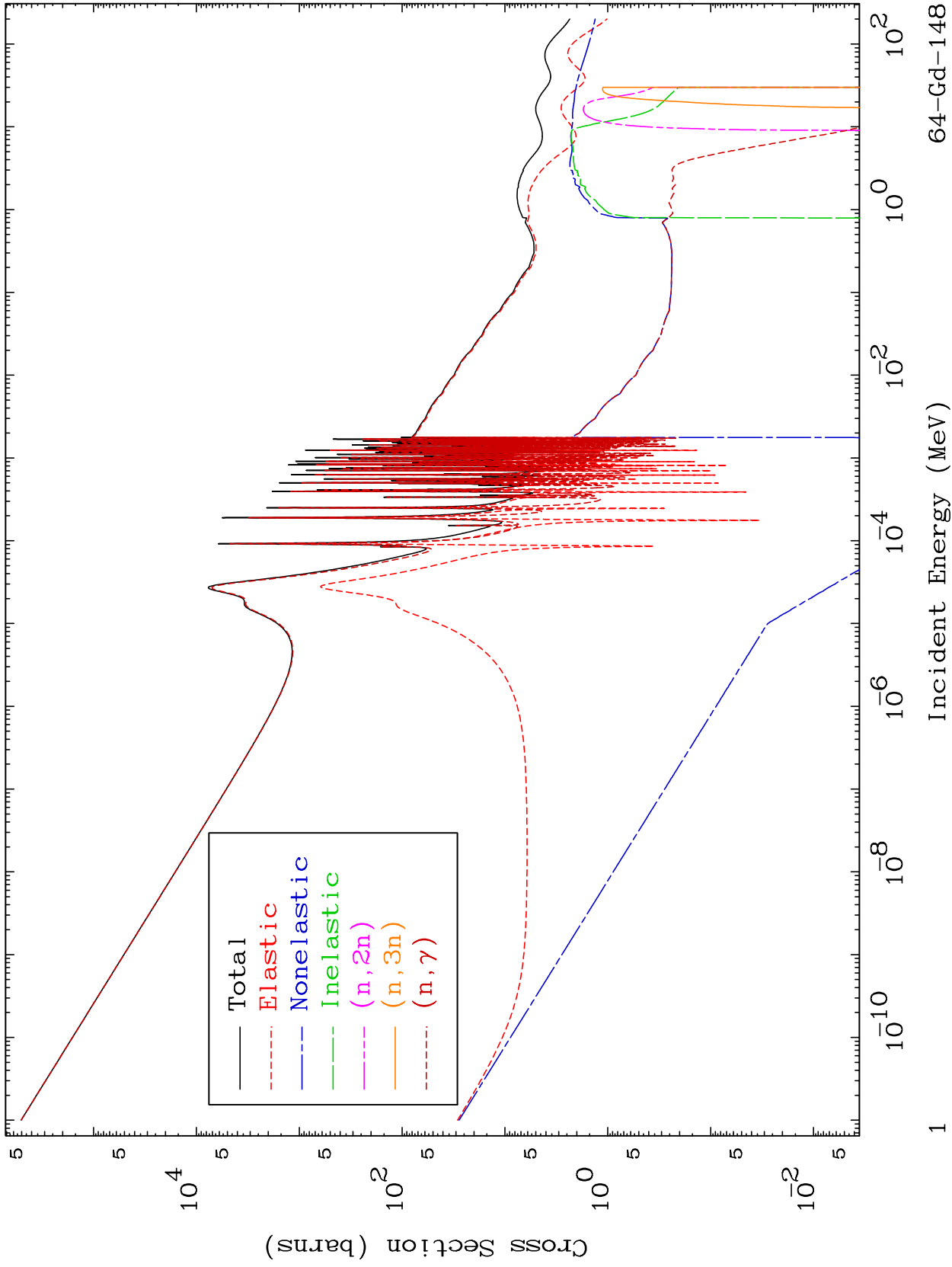
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Press Mouse Button to Start

MAT 6413

Neutron Major
293 Kelvin Cross Sections

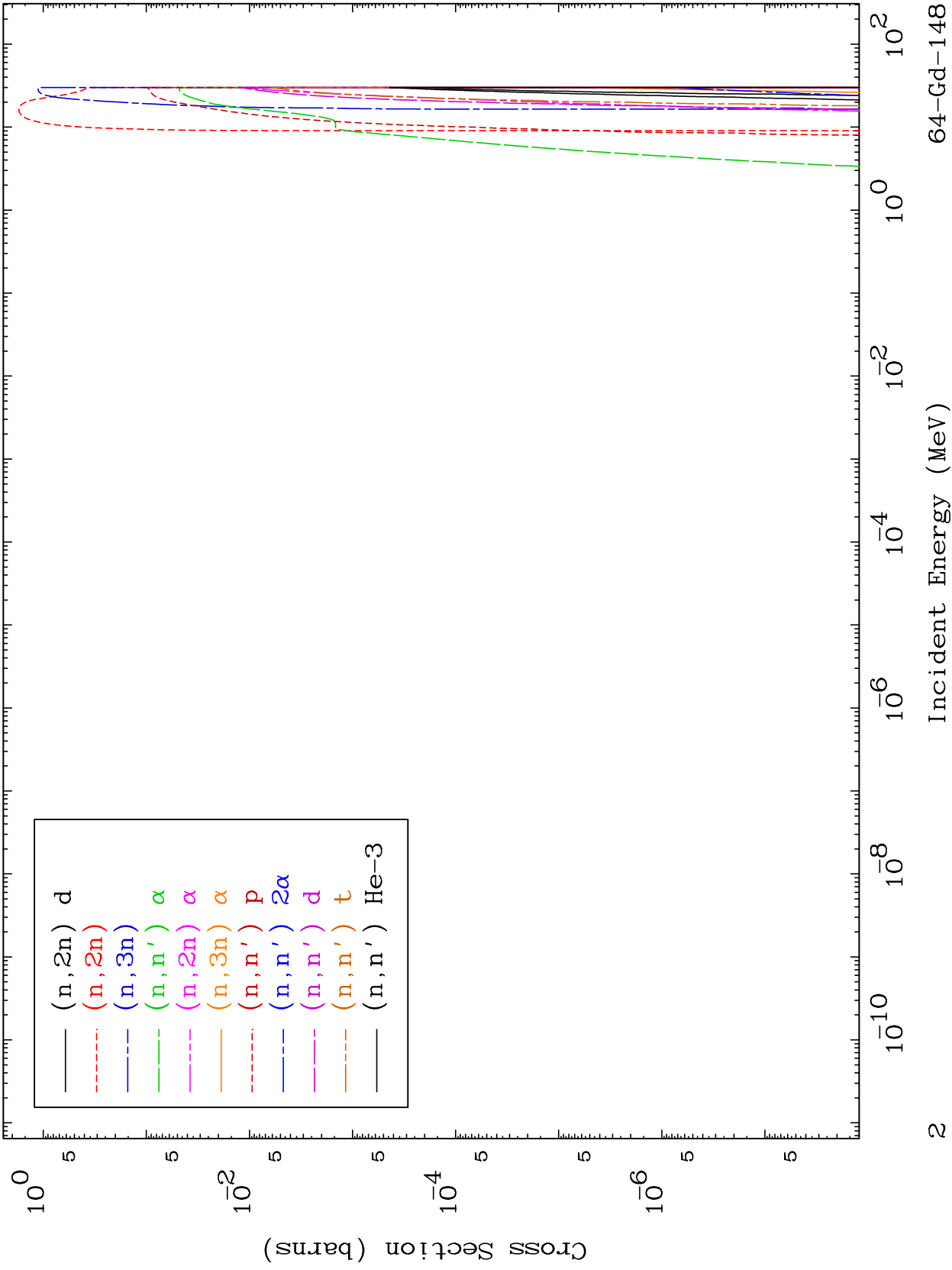
64-Gd-148



MAT 6413

Neutron Absorption
293 Kelvin Cross Sections

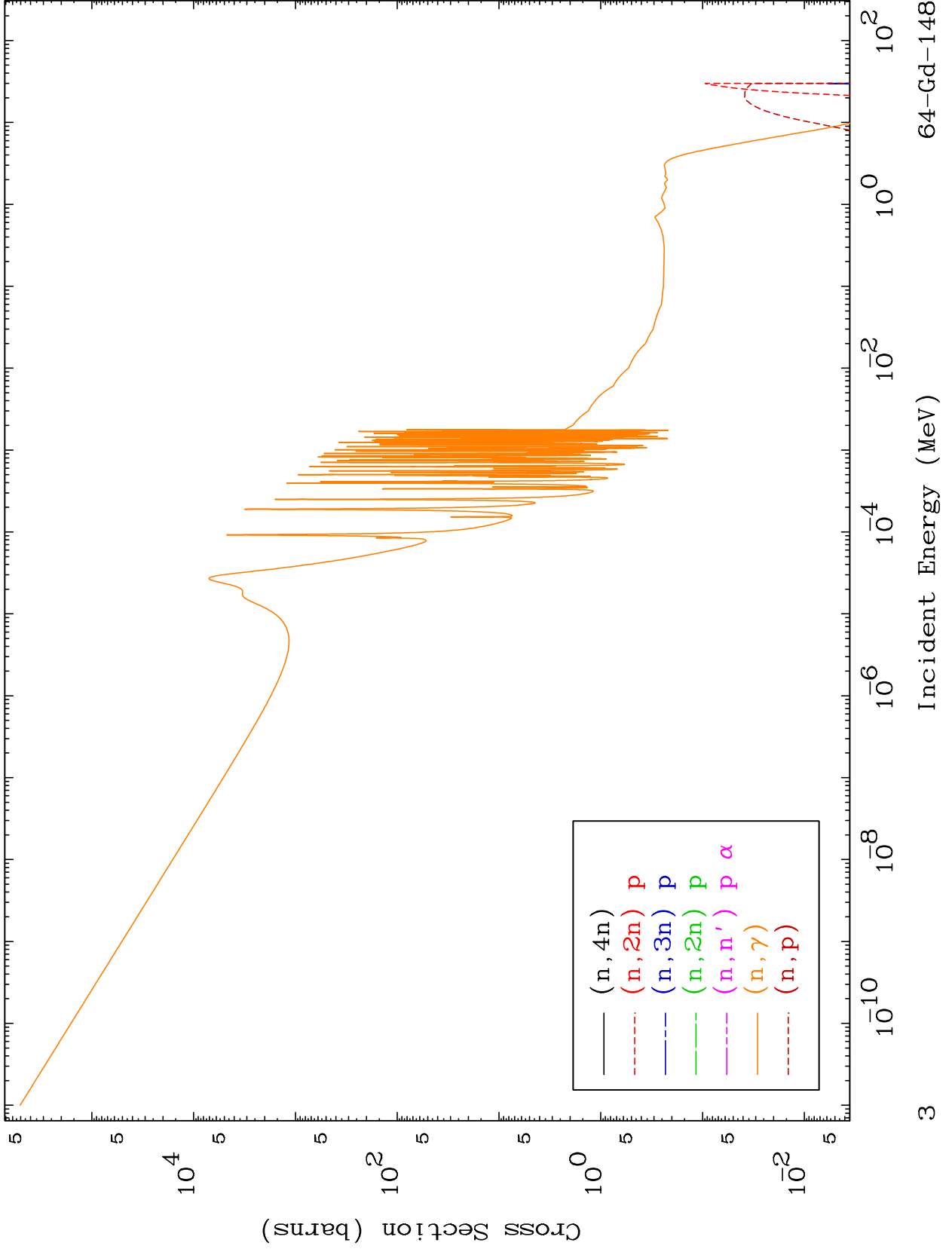
64-Gd-148



MAT 6413

Neutron Absorption
293 Kelvin Cross Sections

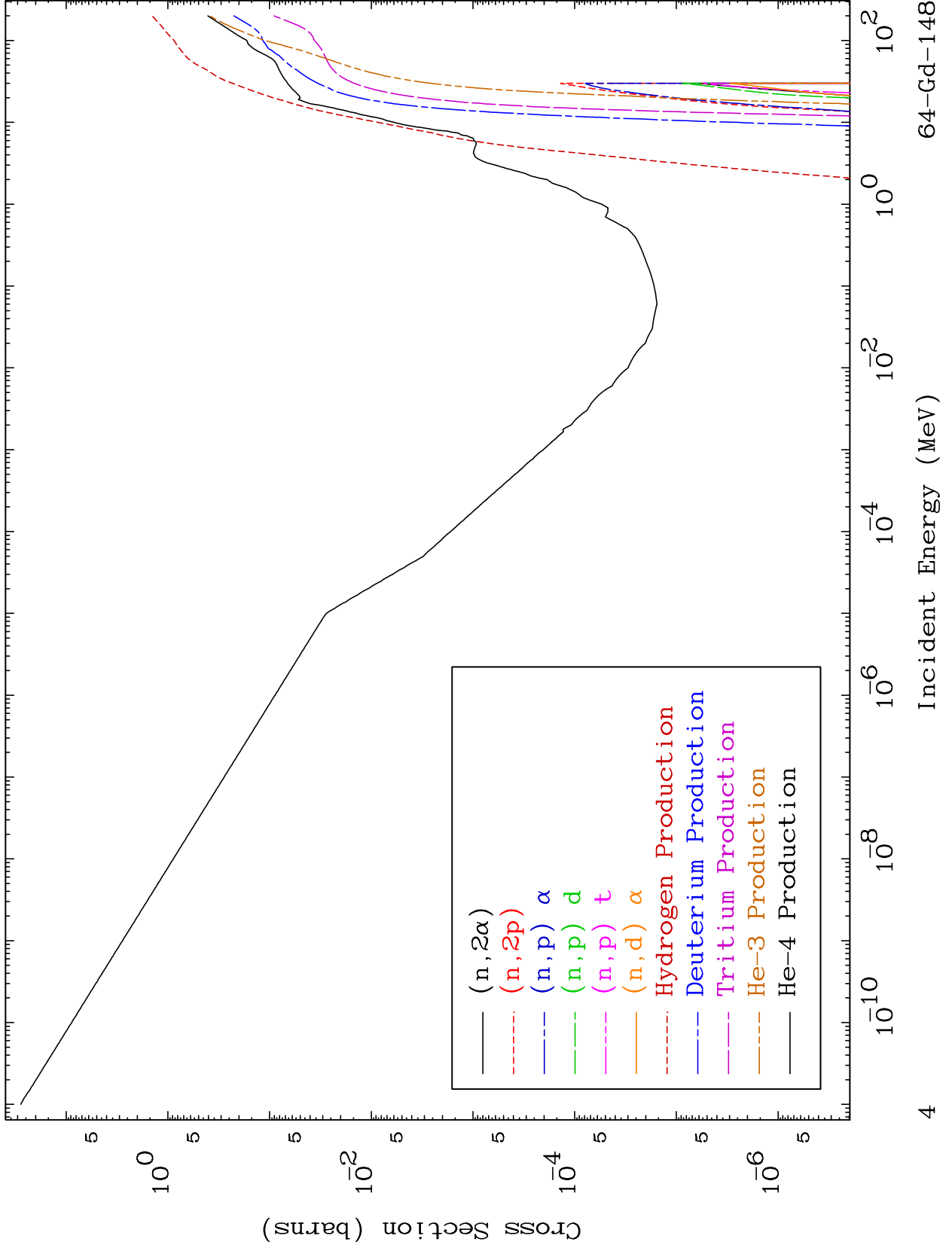
64-Gd-148



MAT 6413

Neutron Absorption
293 Kelvin Cross Sections

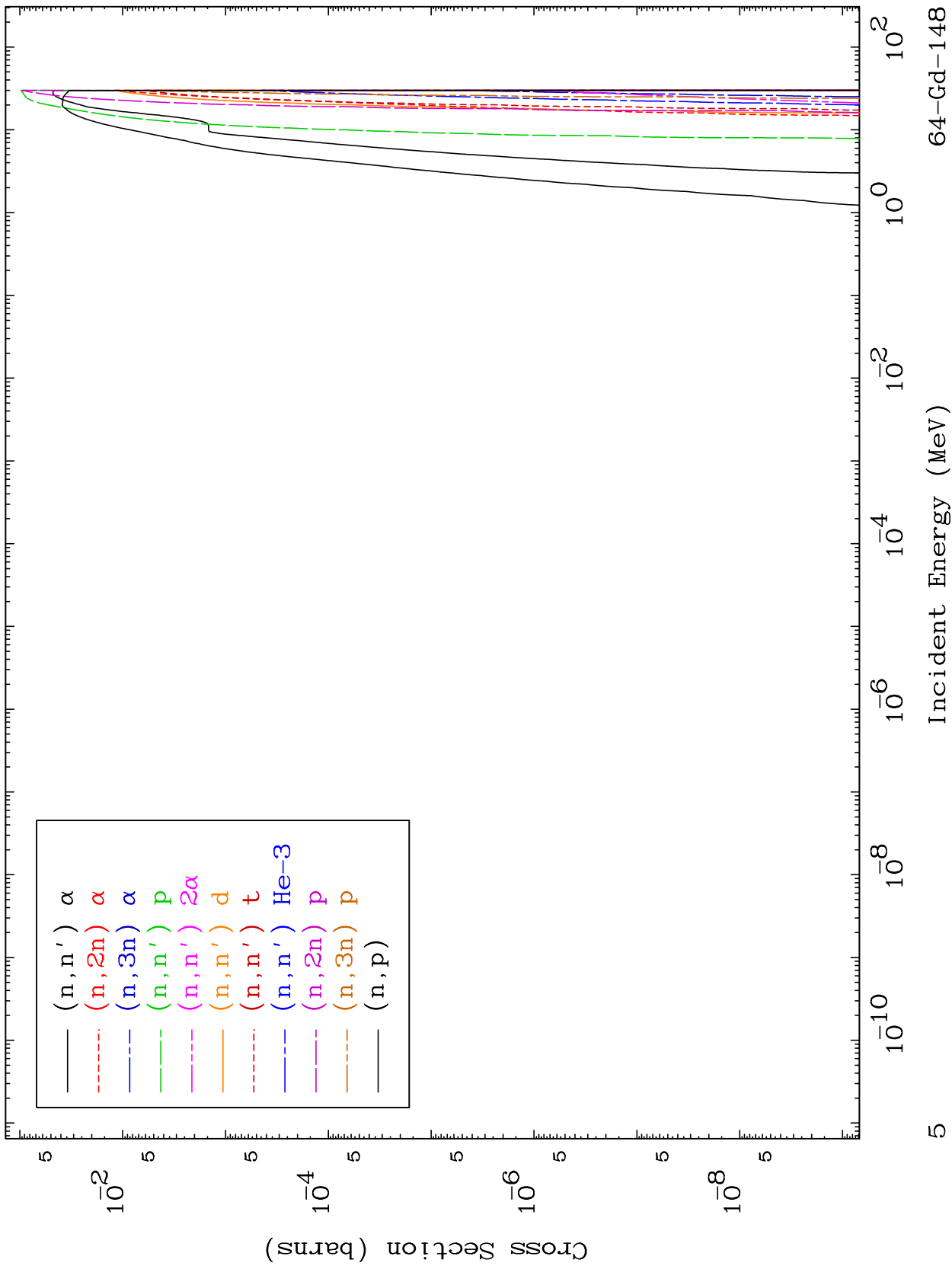
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MAT 6413

Charged Particle
293 Kelvin Cross Sections

64-Gd-148



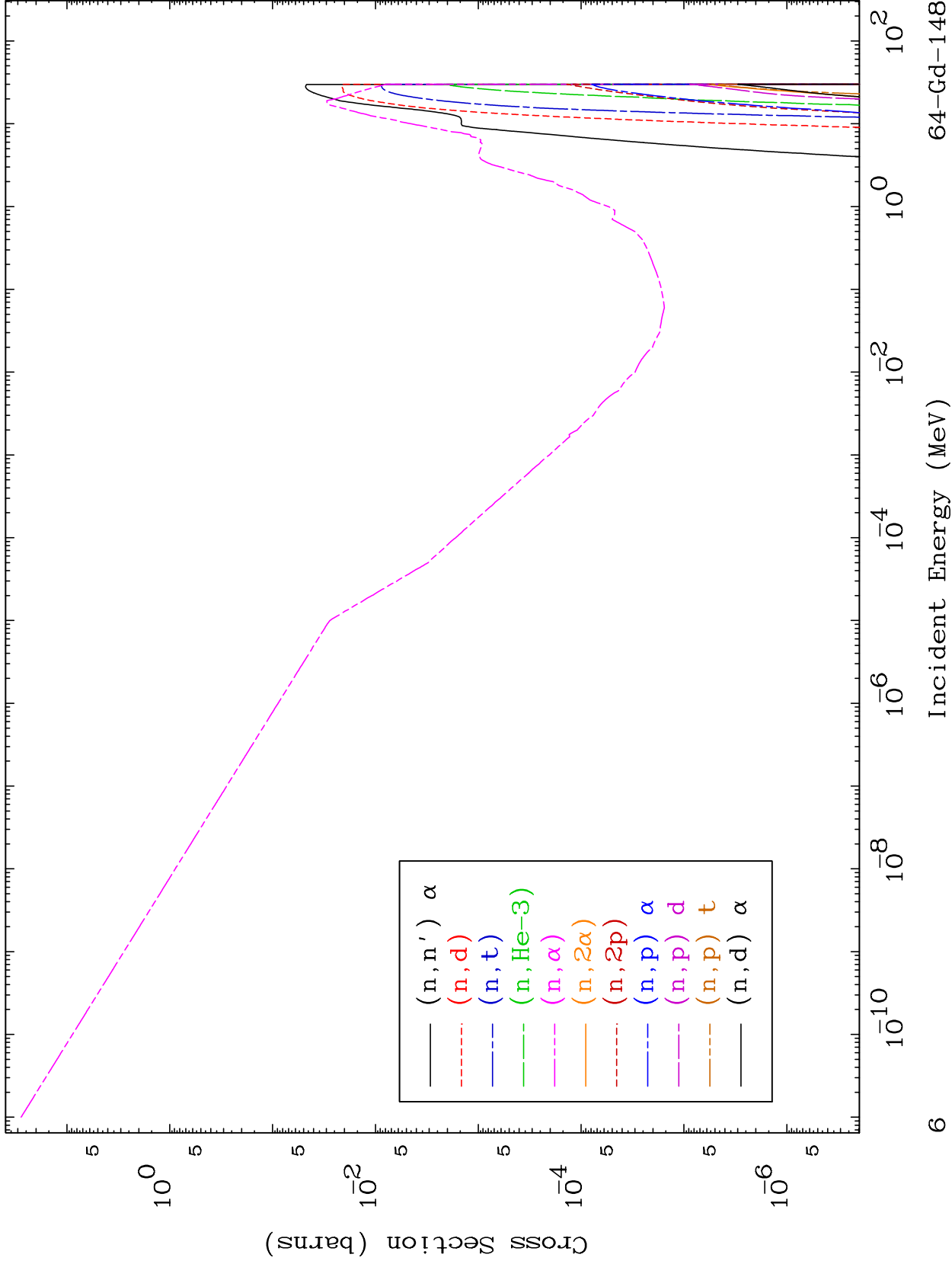
5

64-Gd-148

MAT 6413

Charged Particle
293 Kelvin Cross Sections

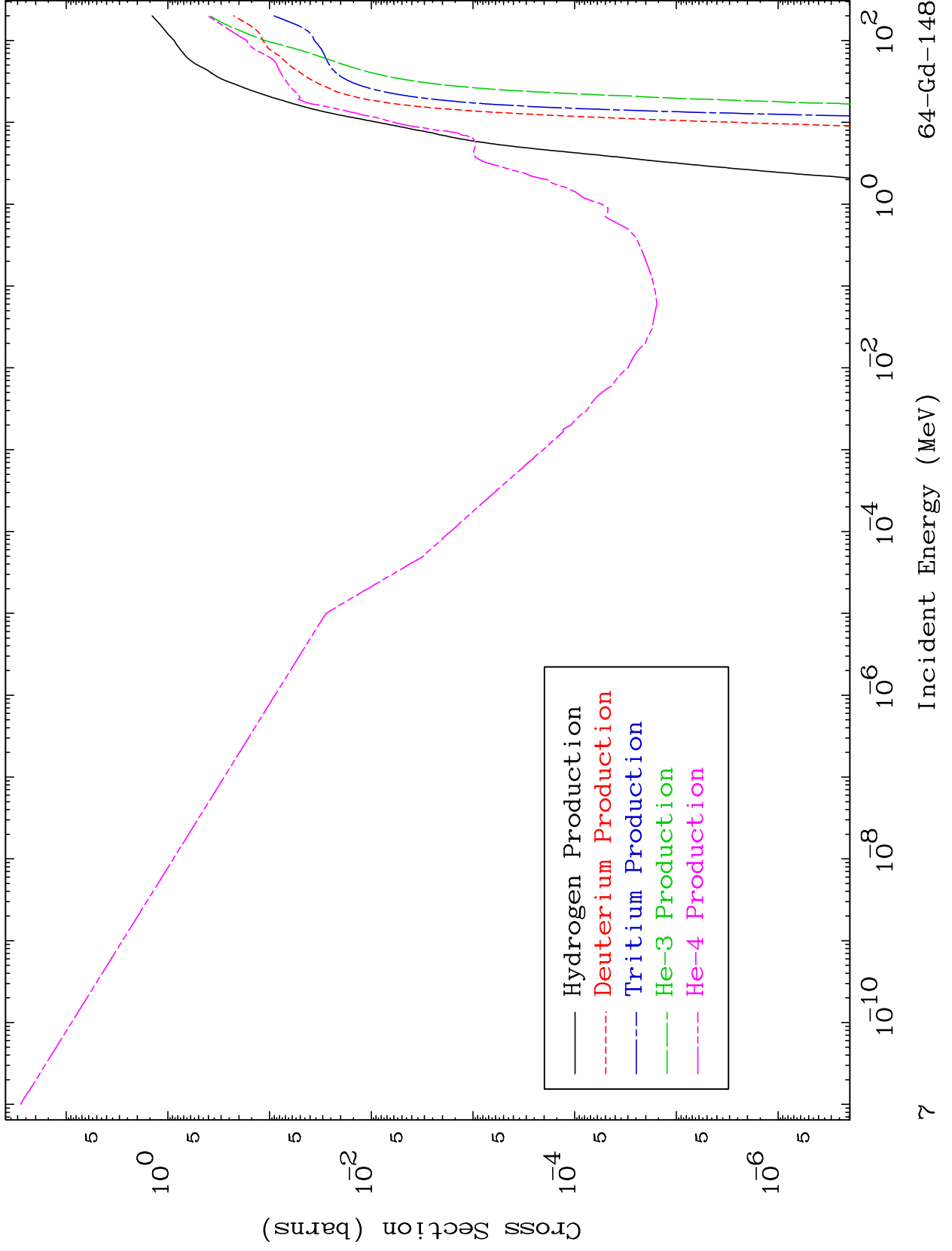
64-Gd-148



MAT 6413

Particle Production
293 Kelvin Cross Sections

64-Gd-148

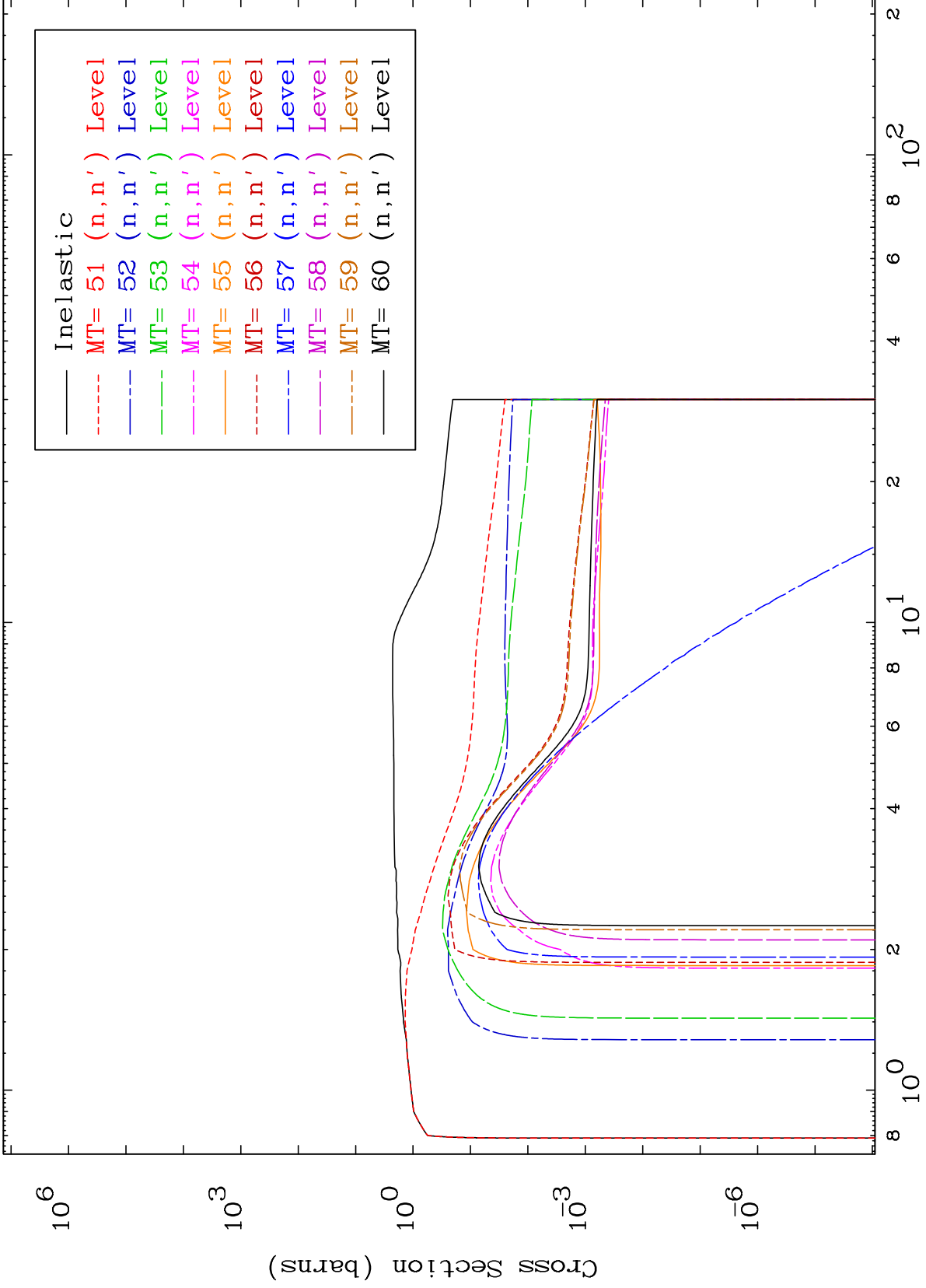


MAT 6413

(n,n') Levels

64-Gd-148

293 Kelvin Cross Sections



8

Incident Energy (MeV)

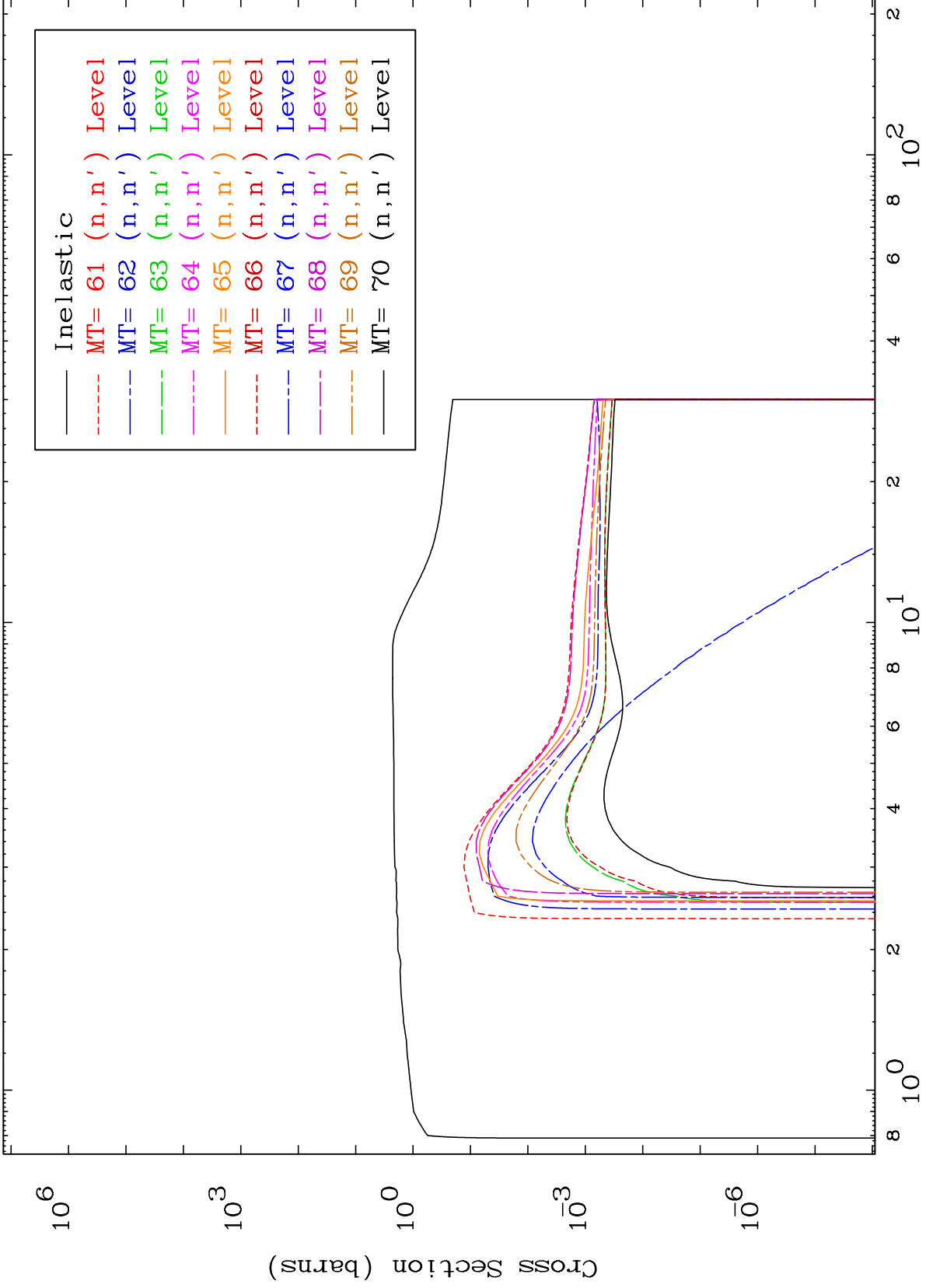
64-Gd-148

MAT 6413

(n,n') Levels

64-Gd-148

293 Kelvin Cross Sections



9

Incident Energy (MeV)

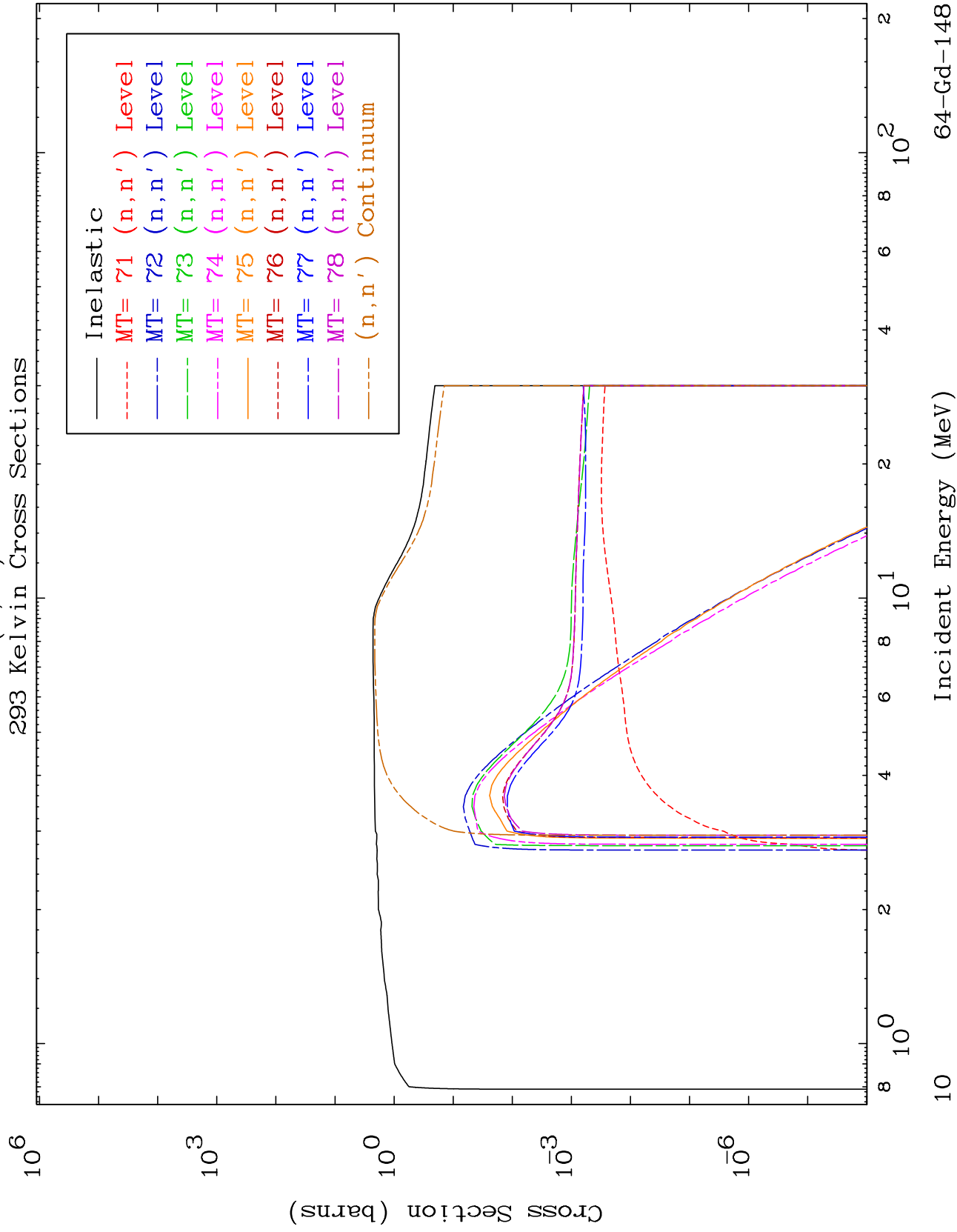
64-Gd-148

MAT 6413

(n,n') Levels

64-Gd-148

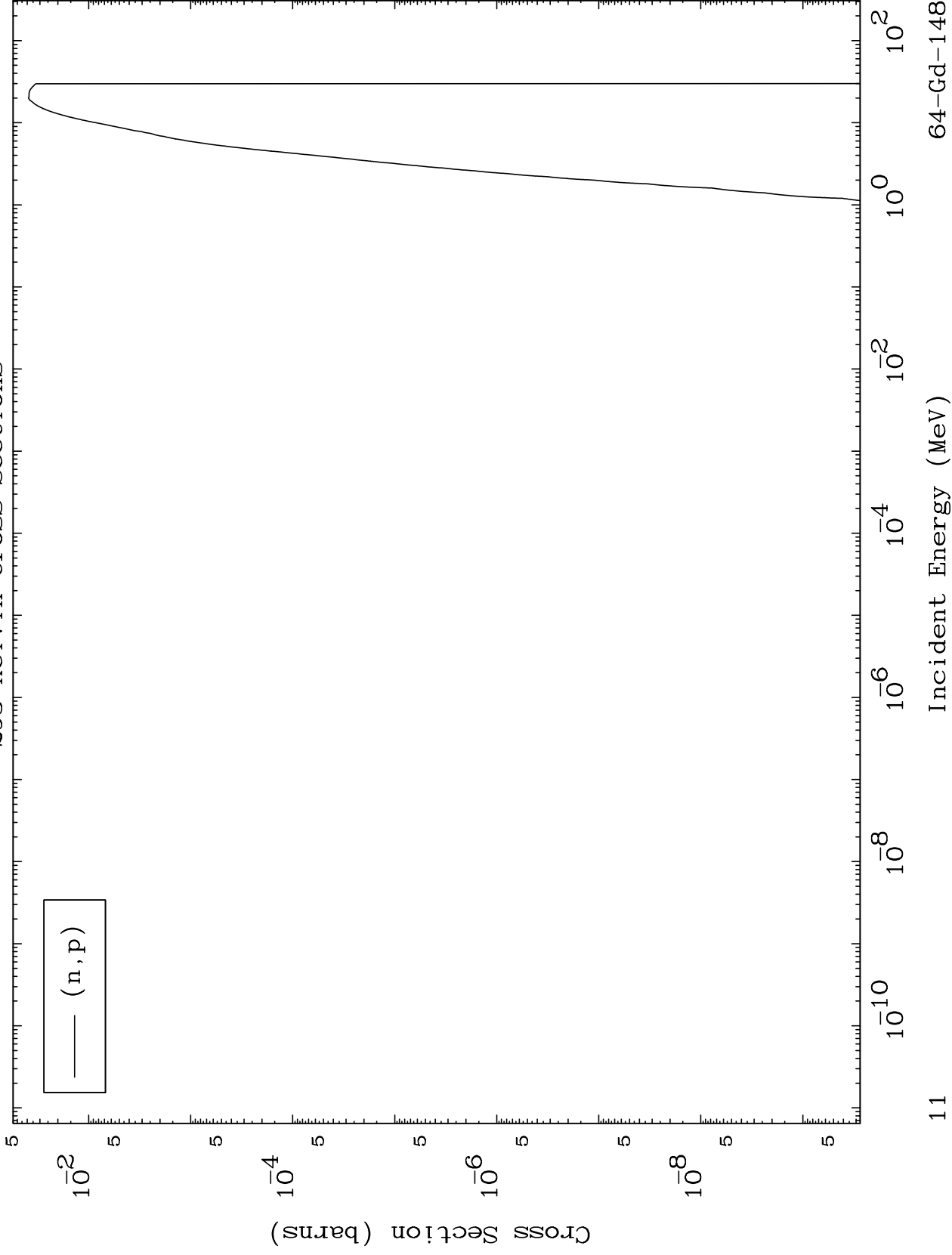
293 Kelvin Cross Sections



MAT 6413

(n,p) Levels
293 Kelvin Cross Sections

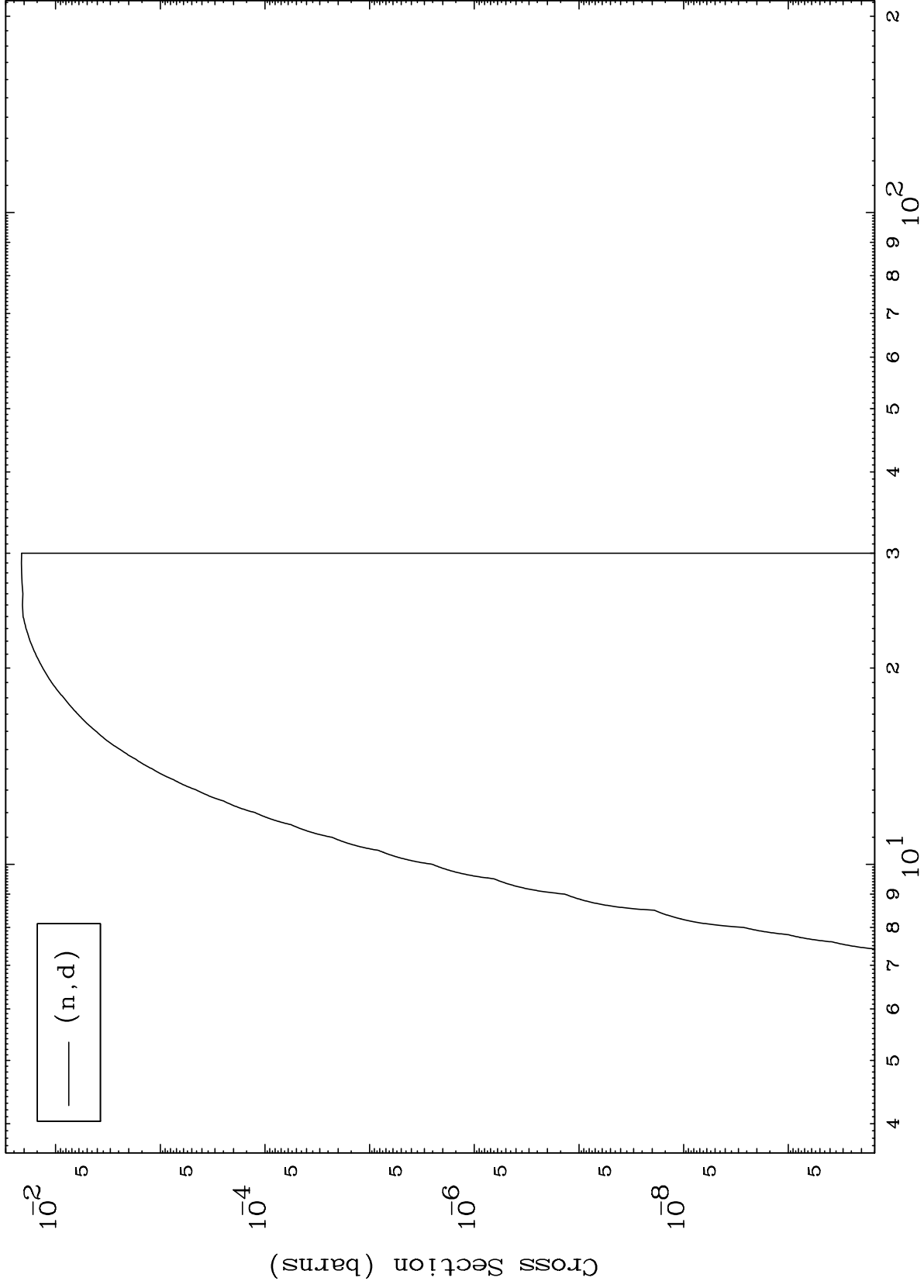
64-Gd-148



MAT 6413

(n,d) Levels
293 Kelvin Cross Sections

64-Gd-148



12

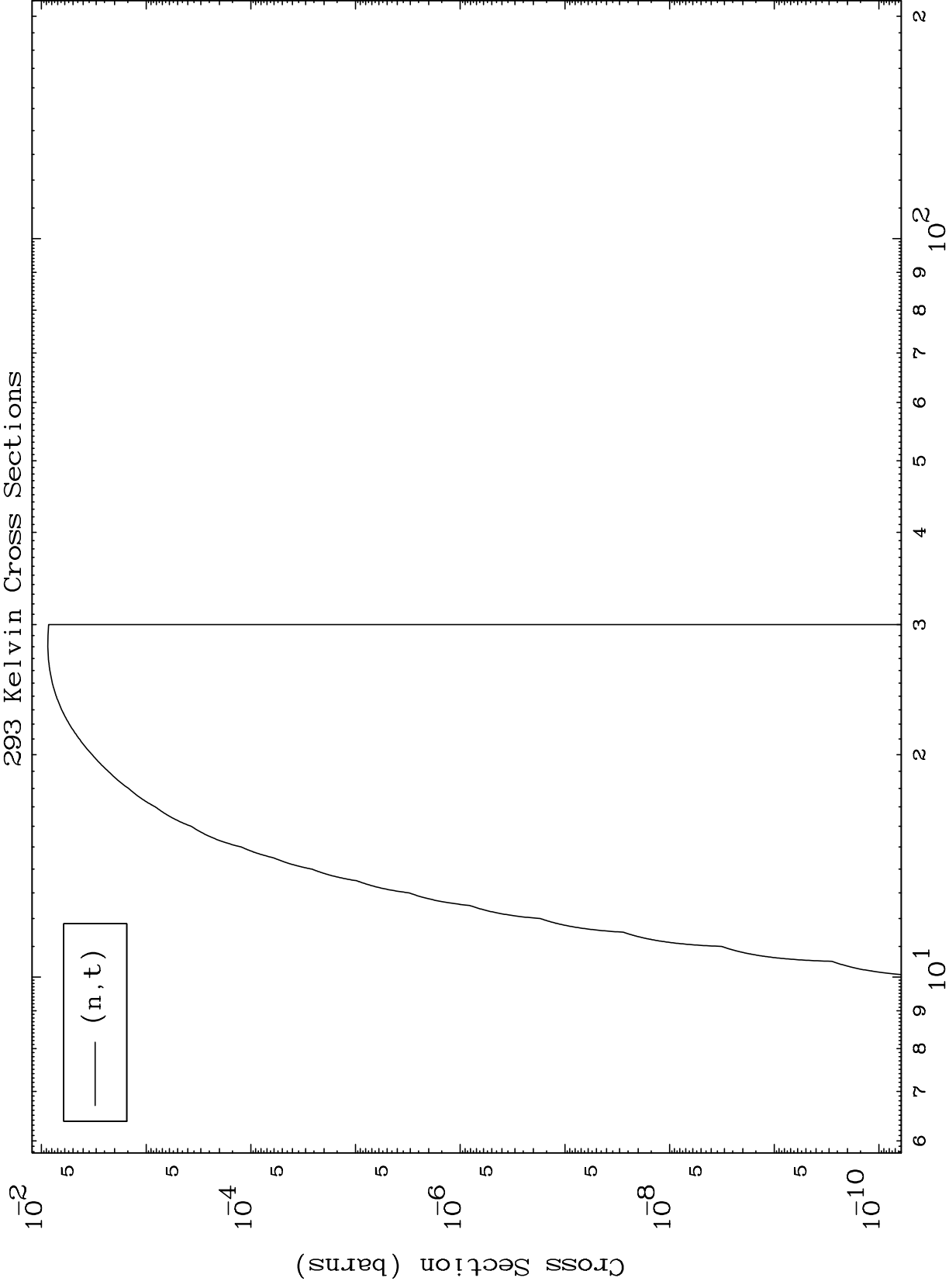
Incident Energy (MeV)

64-Gd-148

MAT 6413

(n,t) Levels
293 Kelvin Cross Sections

64-Gd-148



13

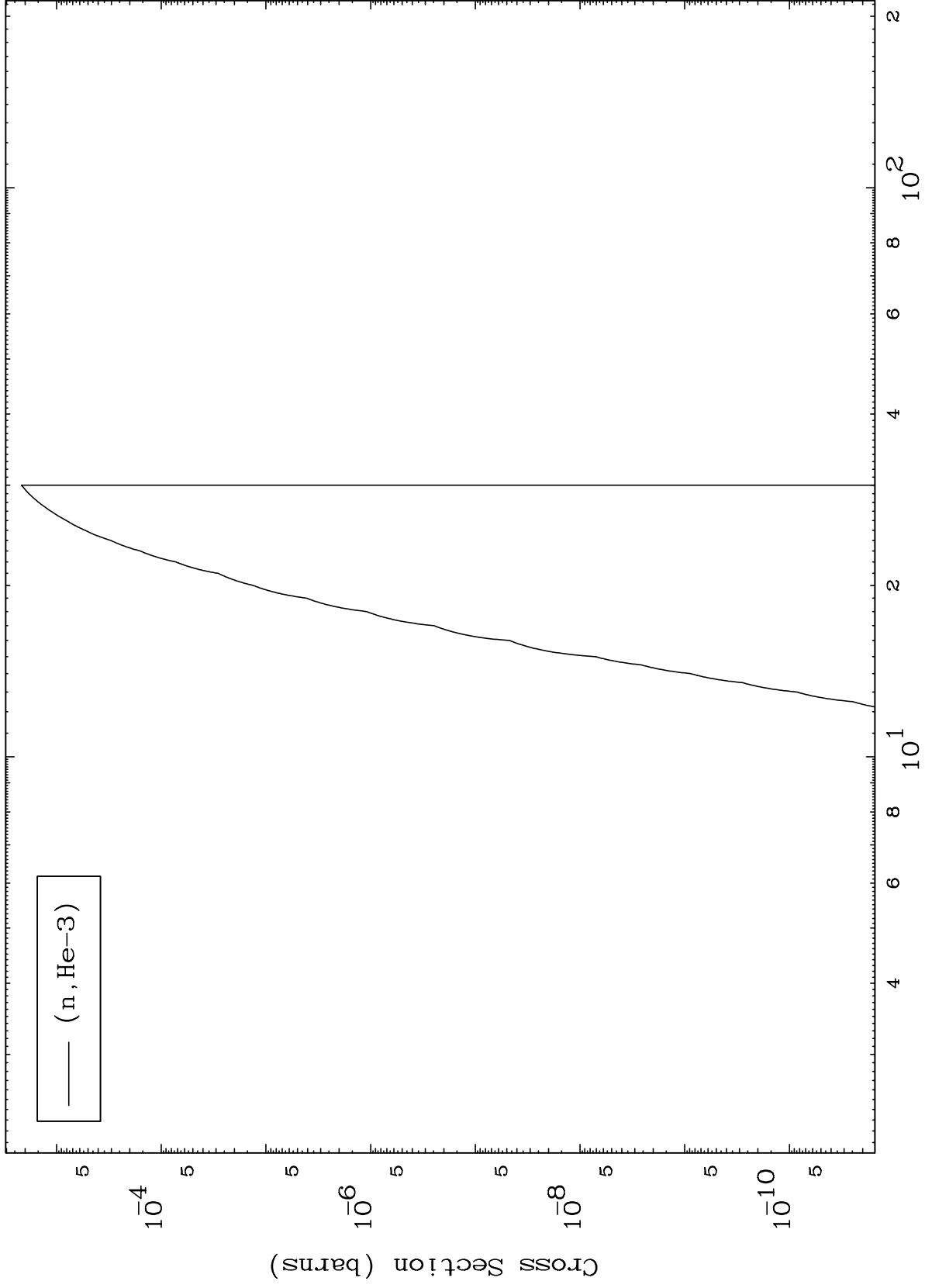
Incident Energy (MeV)

64-Gd-148

MAT 6413

(n,He3) Levels
293 Kelvin Cross Sections

64-Gd-148



14

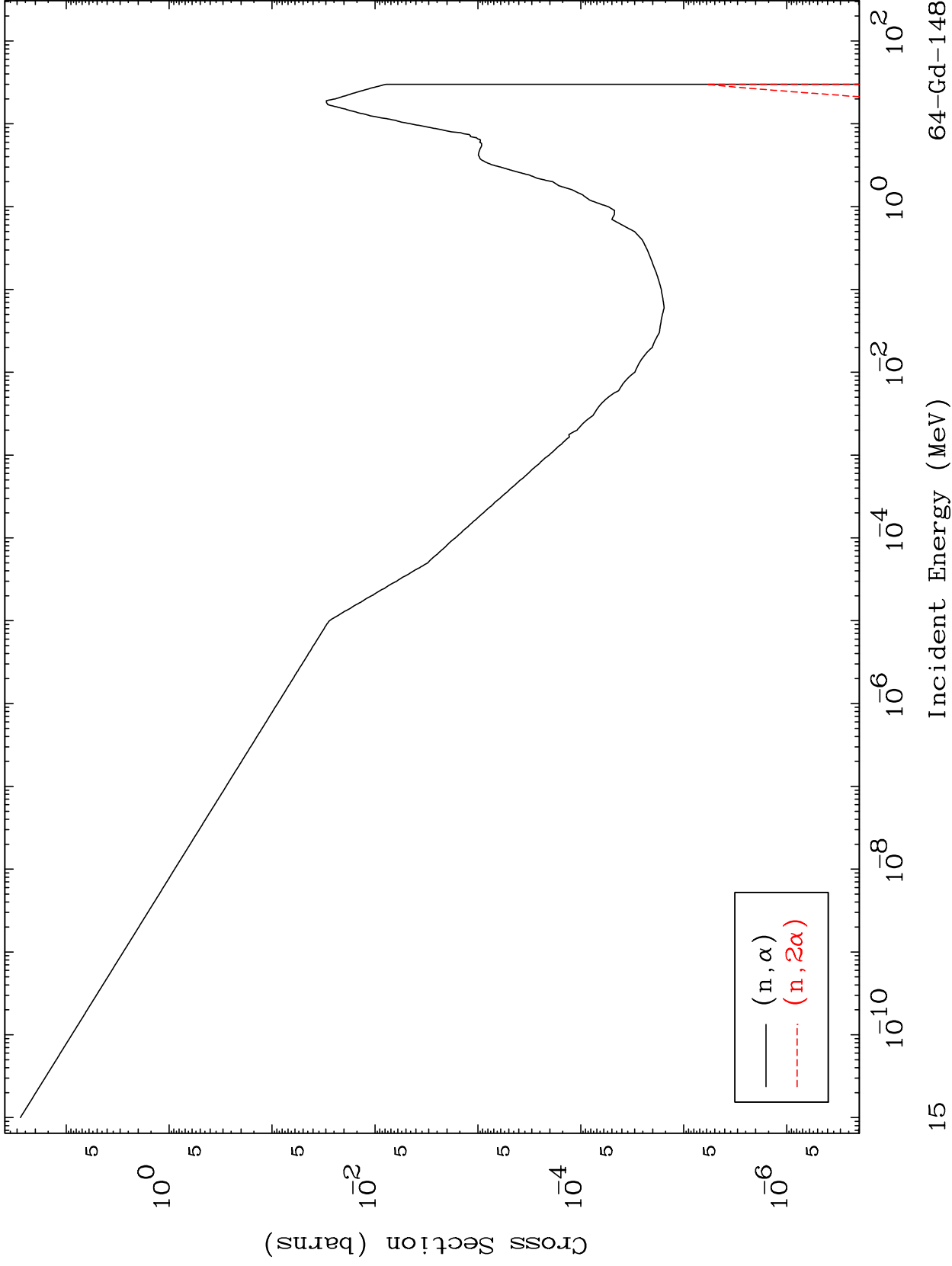
Incident Energy (MeV)

64-Gd-148

MAT 6413

(n,α) Levels
293 Kelvin Cross Sections

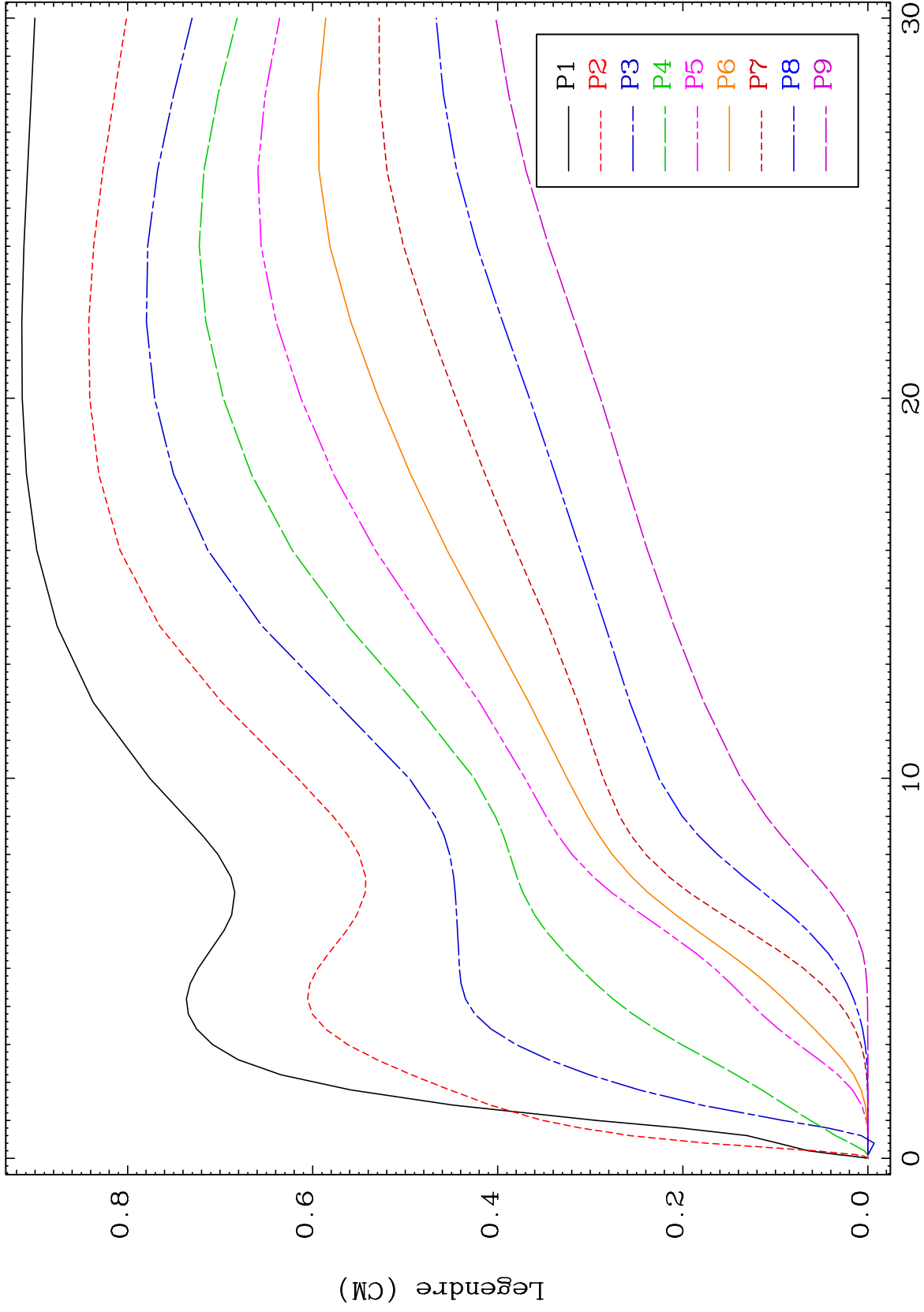
64-Gd-148



MAT 6413

64-Gd-148

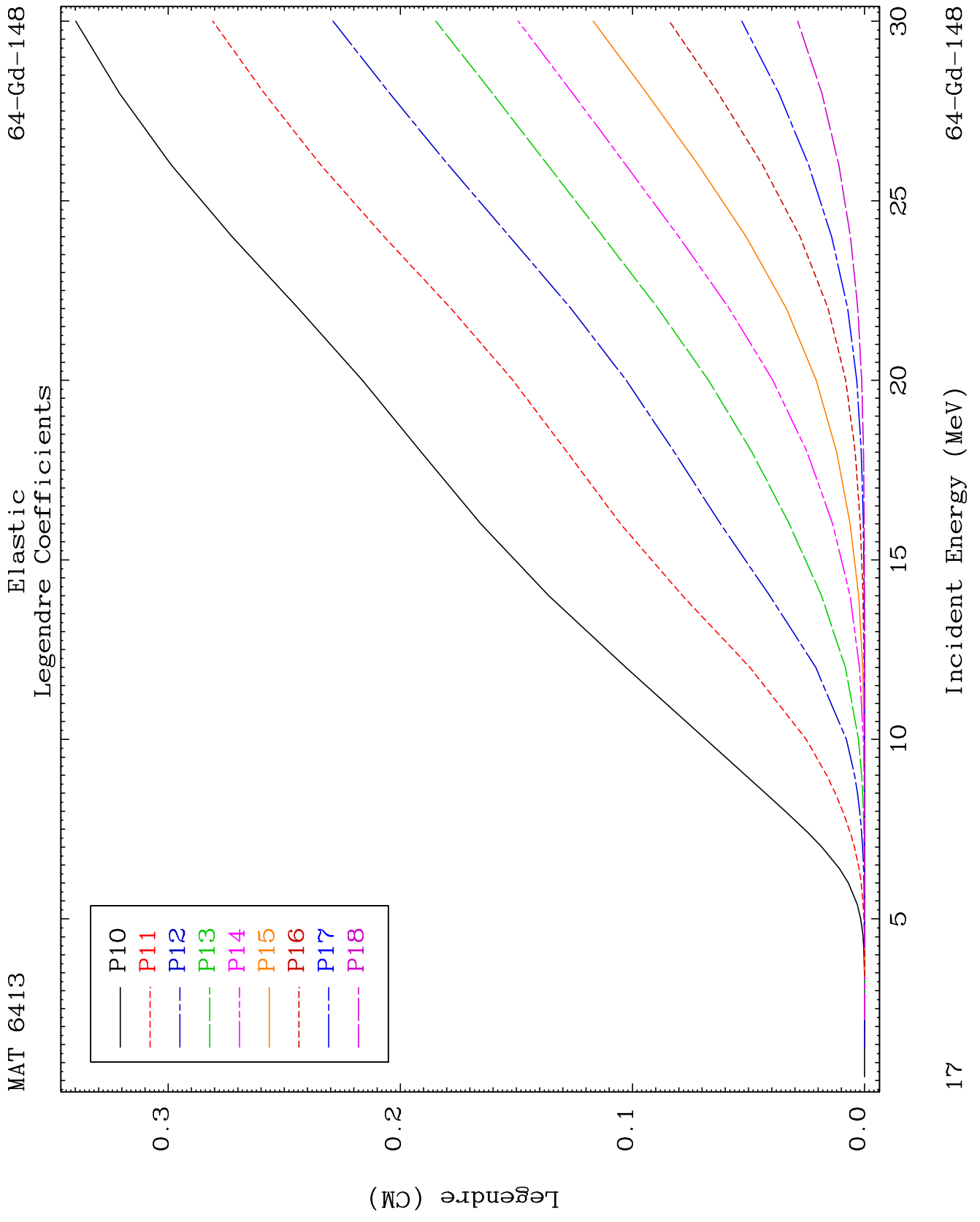
Elastic Legendre Coefficients



16

Incident Energy (MeV)

64-Gd-148



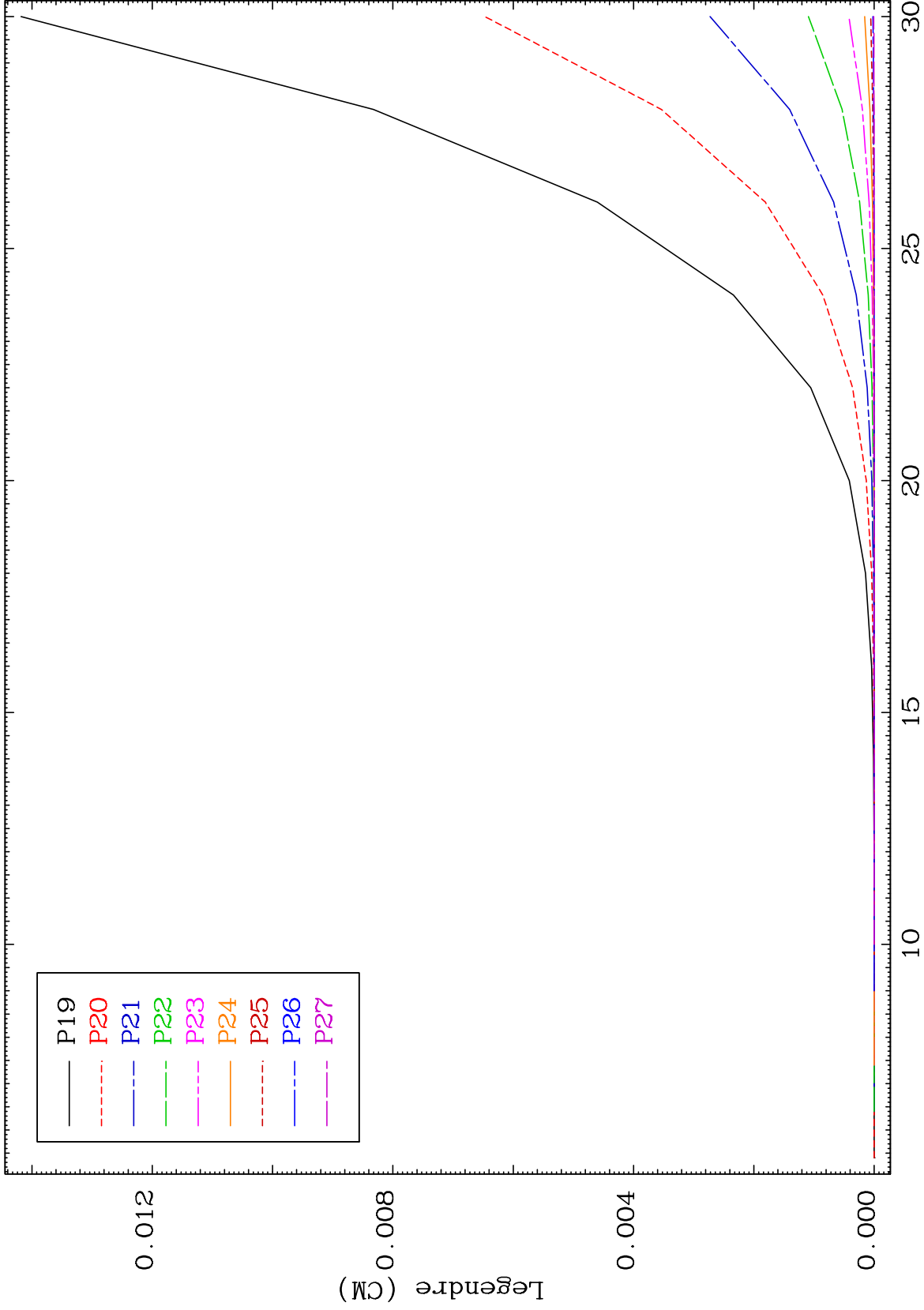
MAT 6413

17

MAT 6413

Elastic
Legendre Coefficients

64-Gd-148



- P19
- P20
- P21
- P22
- P23
- P24
- P25
- P26
- P27

18

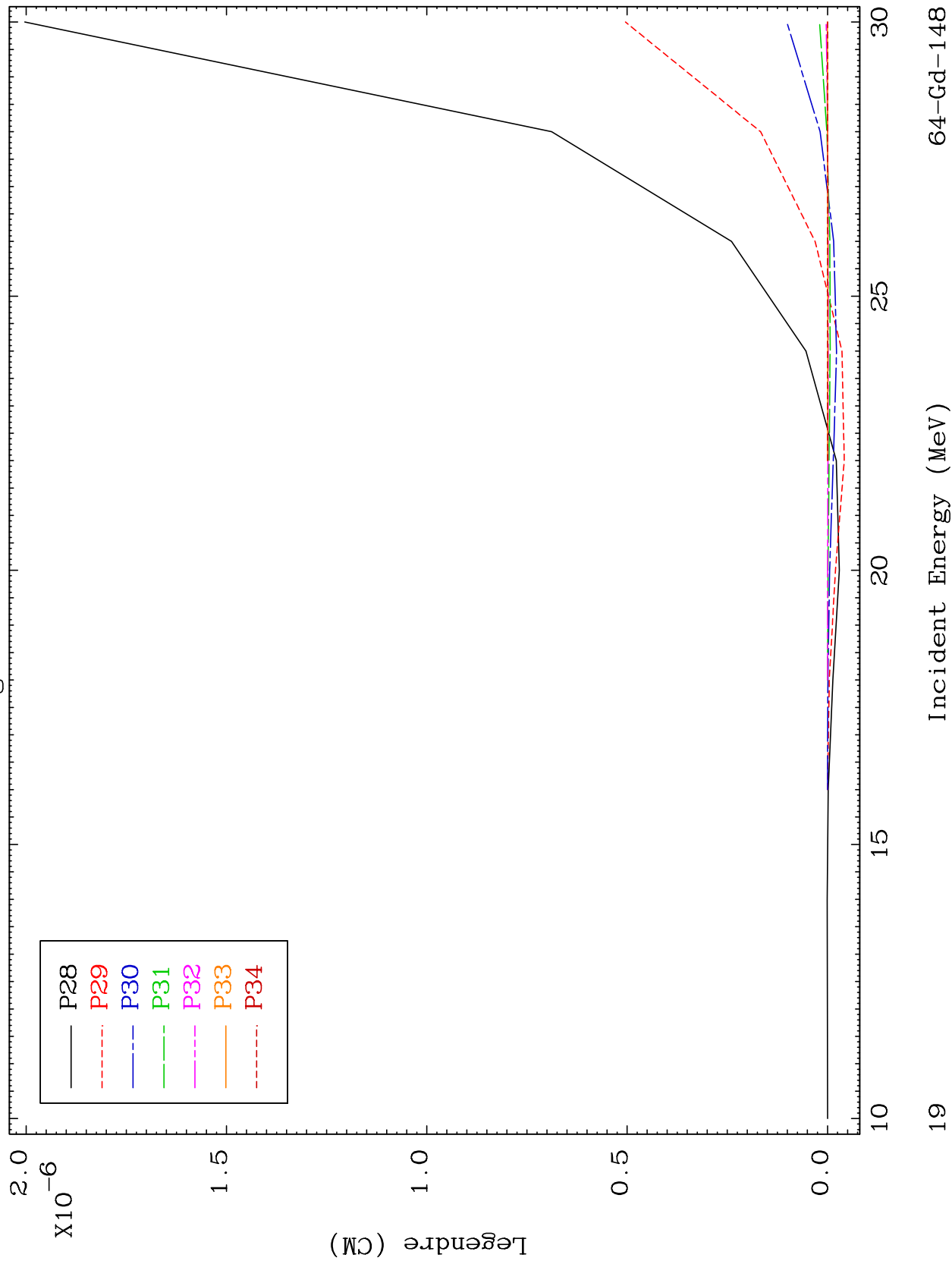
Incident Energy (MeV)

64-Gd-148

MAT 6413

Elastic
Legendre Coefficients

64-Gd-148



19

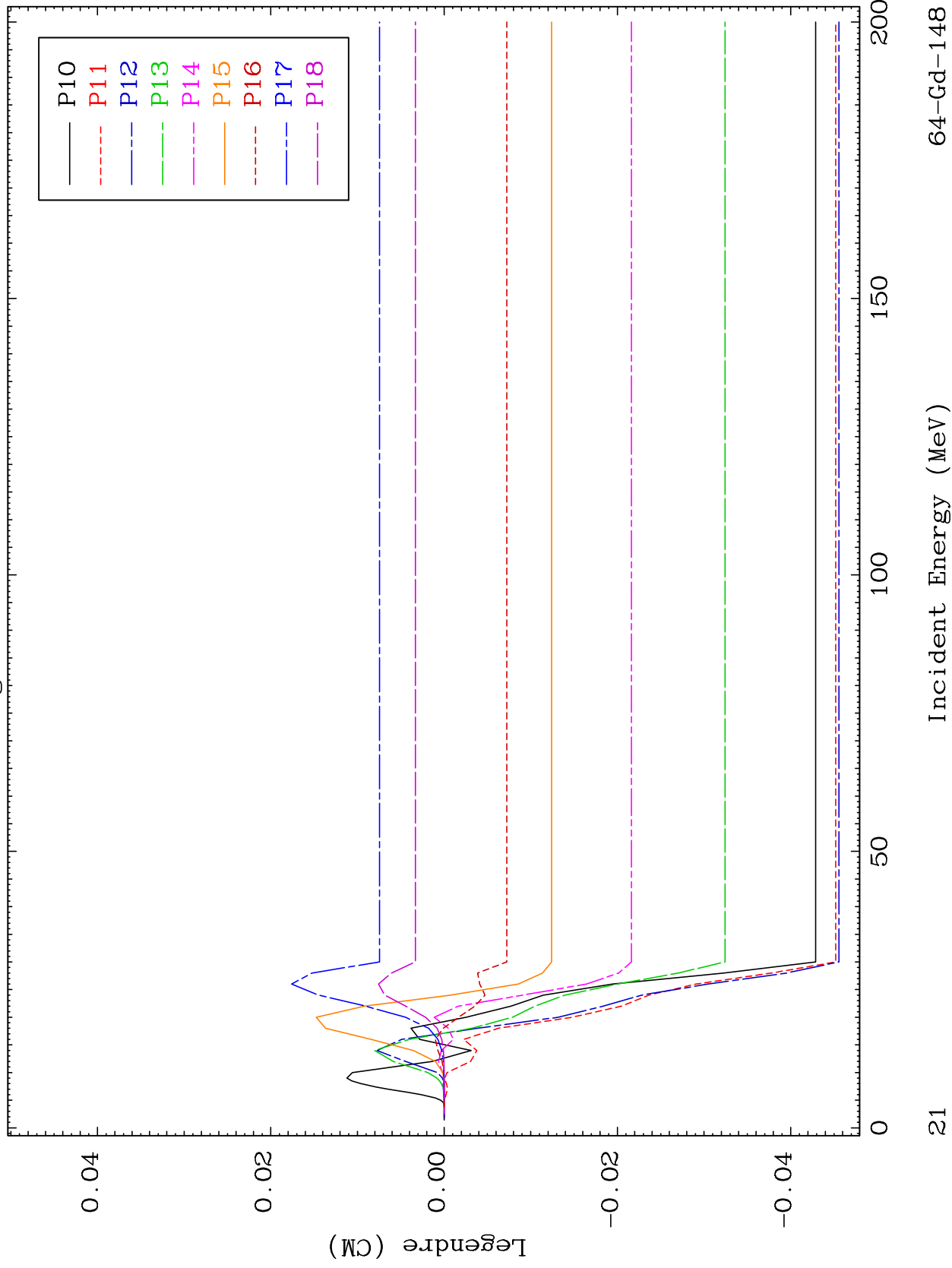
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



64-Gd-148

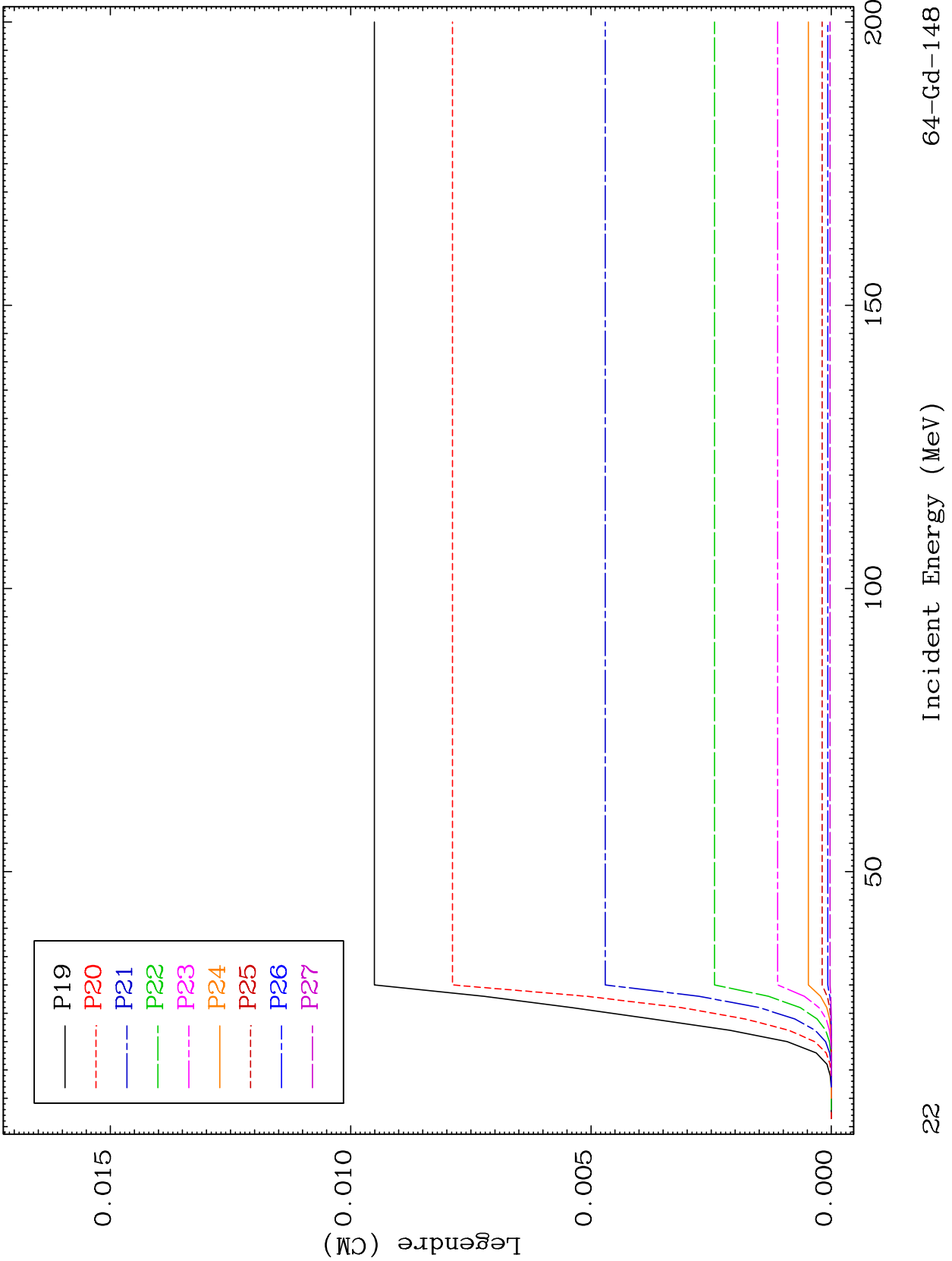
Incident Energy (MeV)

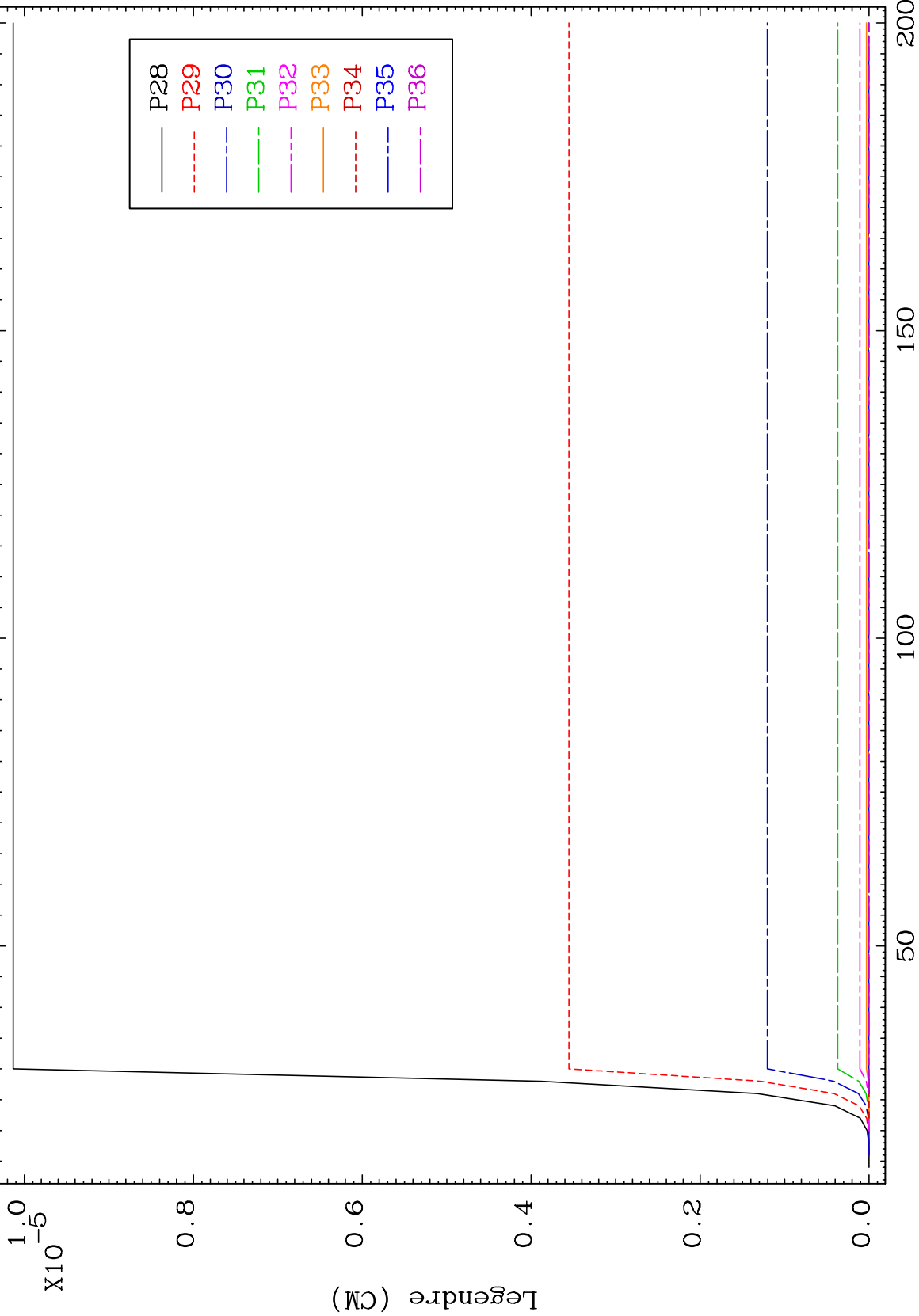
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MAT 6413

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

64-Gd-148

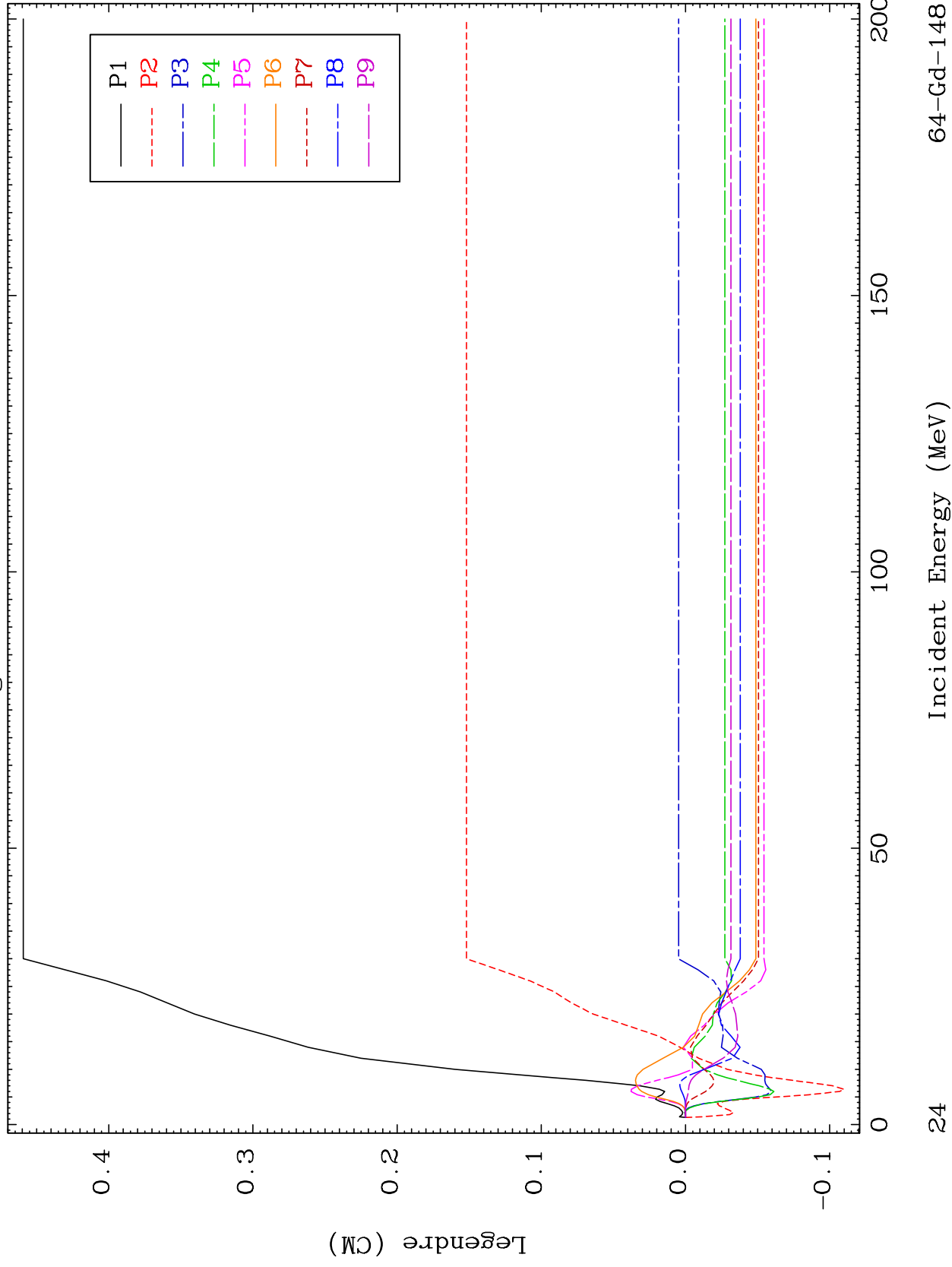




MAT 6413

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

64-Gd-148



64-Gd-148

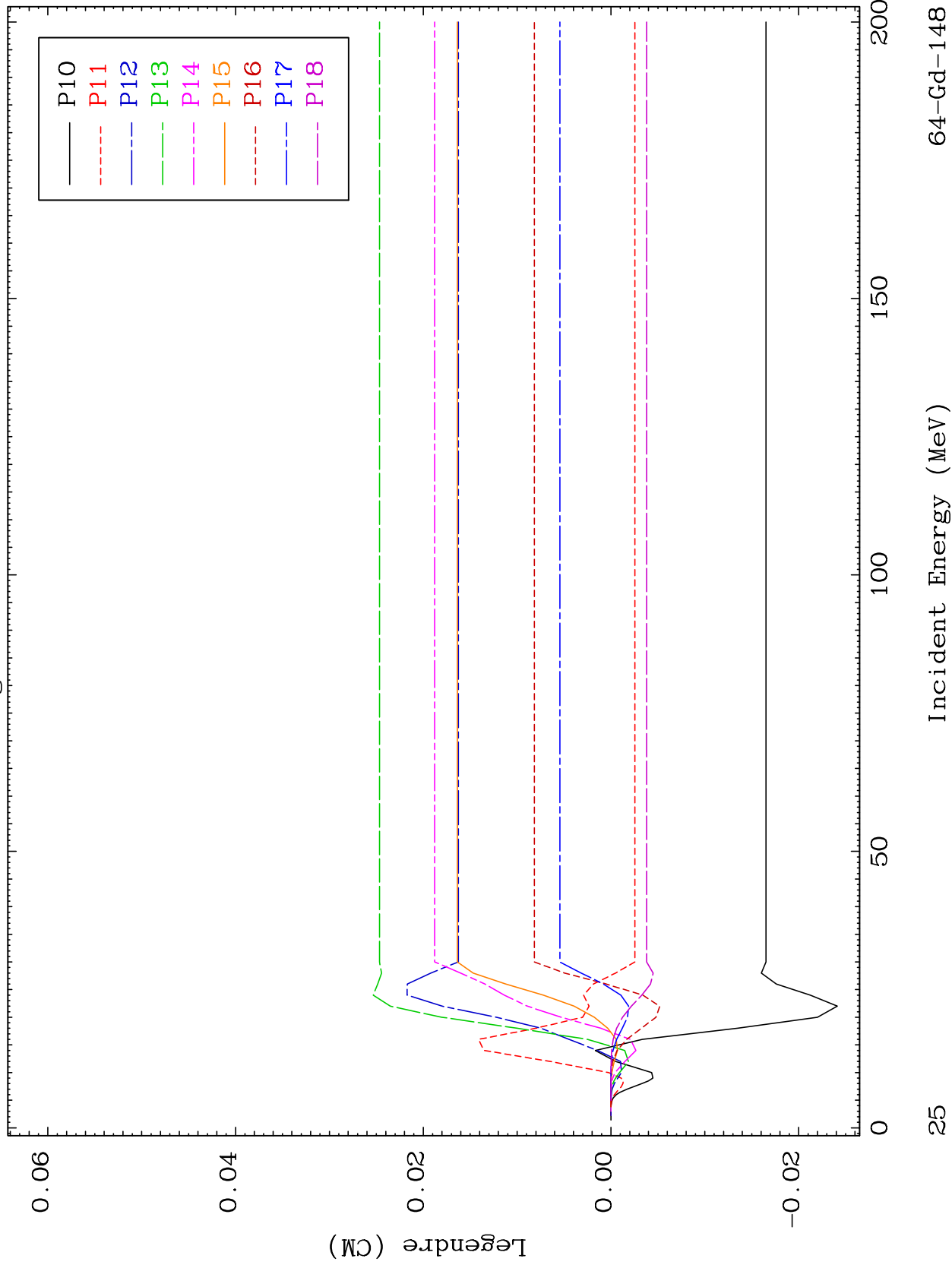
Incident Energy (MeV)

24

MAT 6413

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

64-Gd-148



64-Gd-148

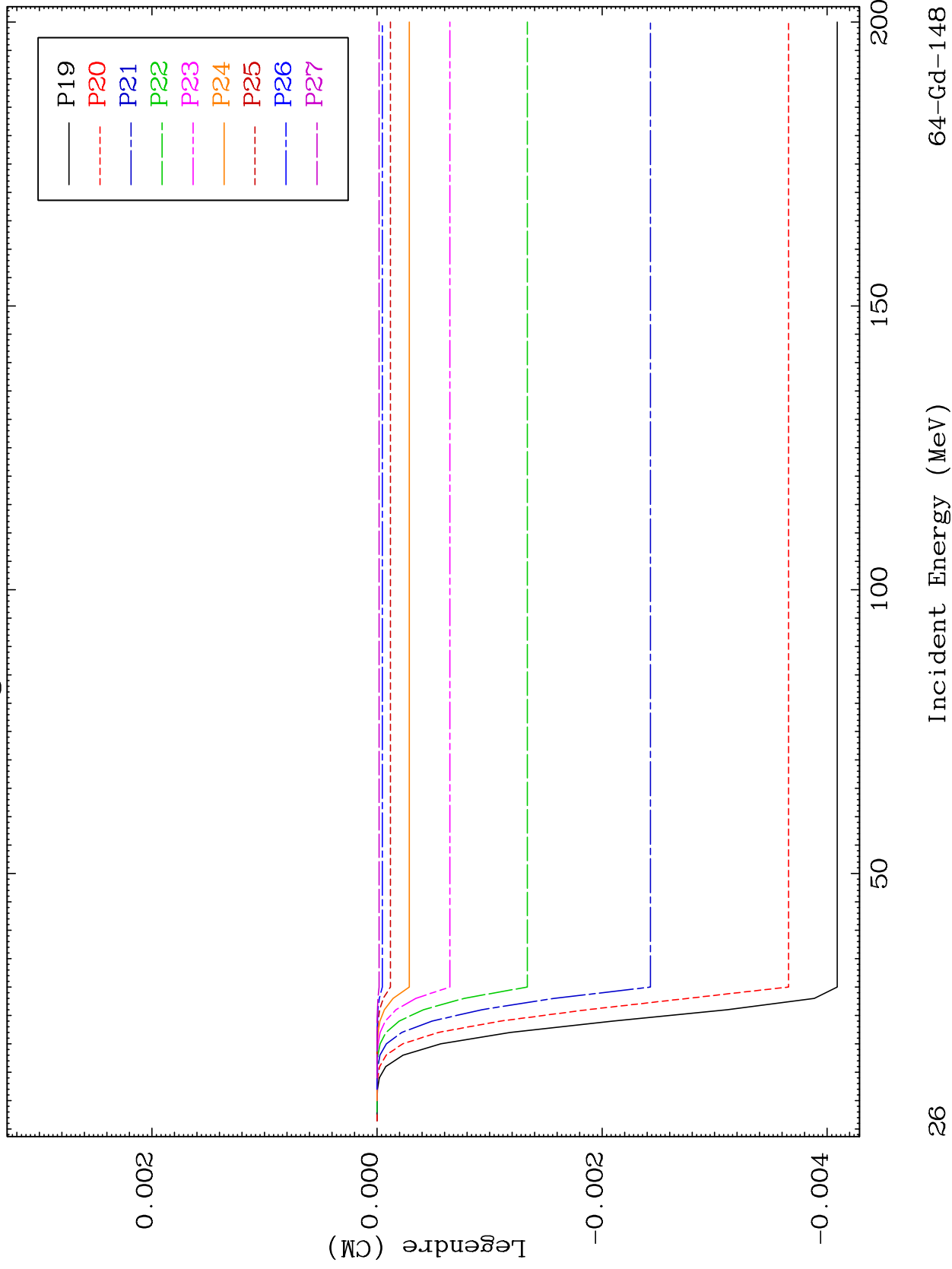
Incident Energy (MeV)

25

MAT 6413

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

64-Gd-148



26

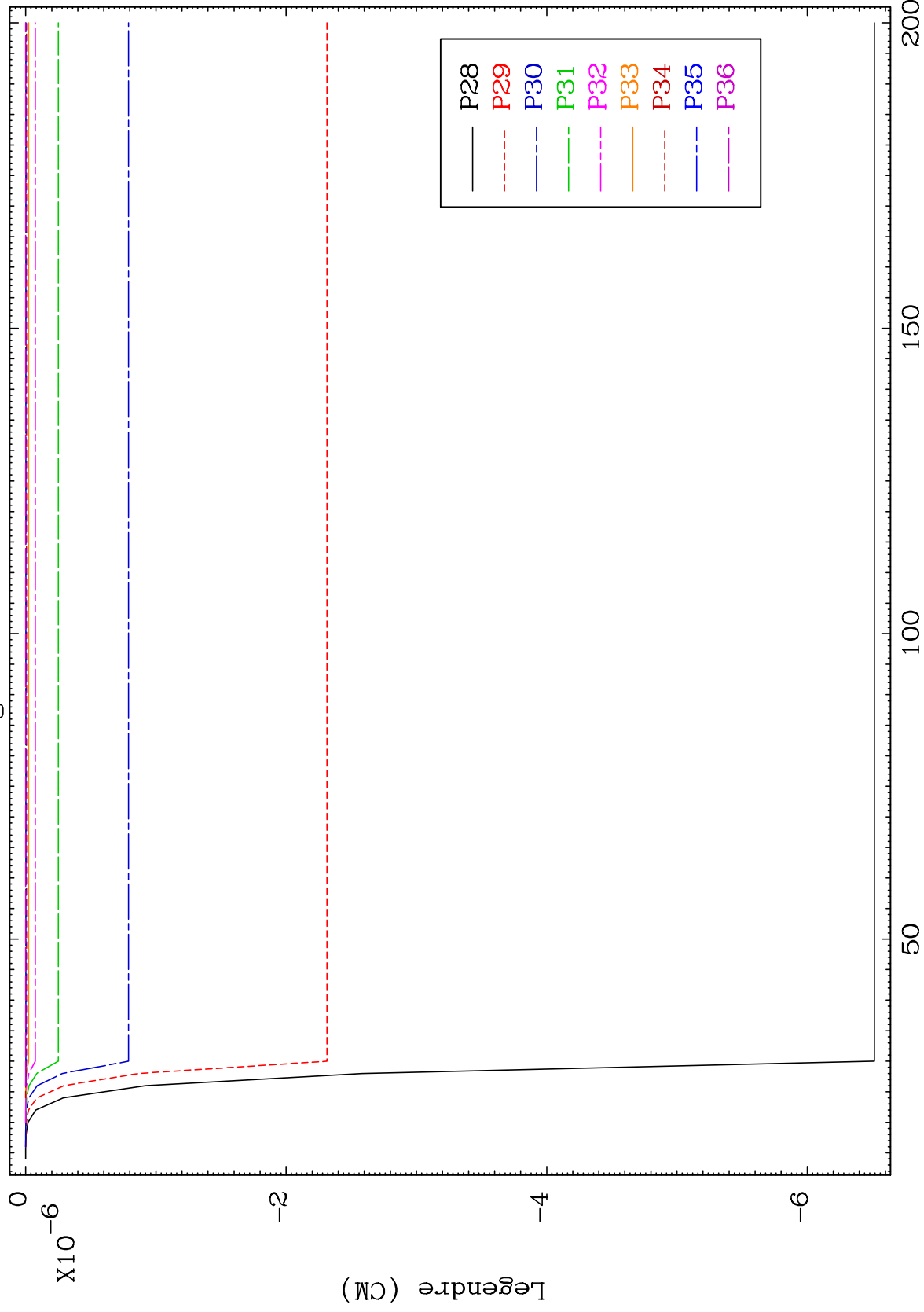
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



27

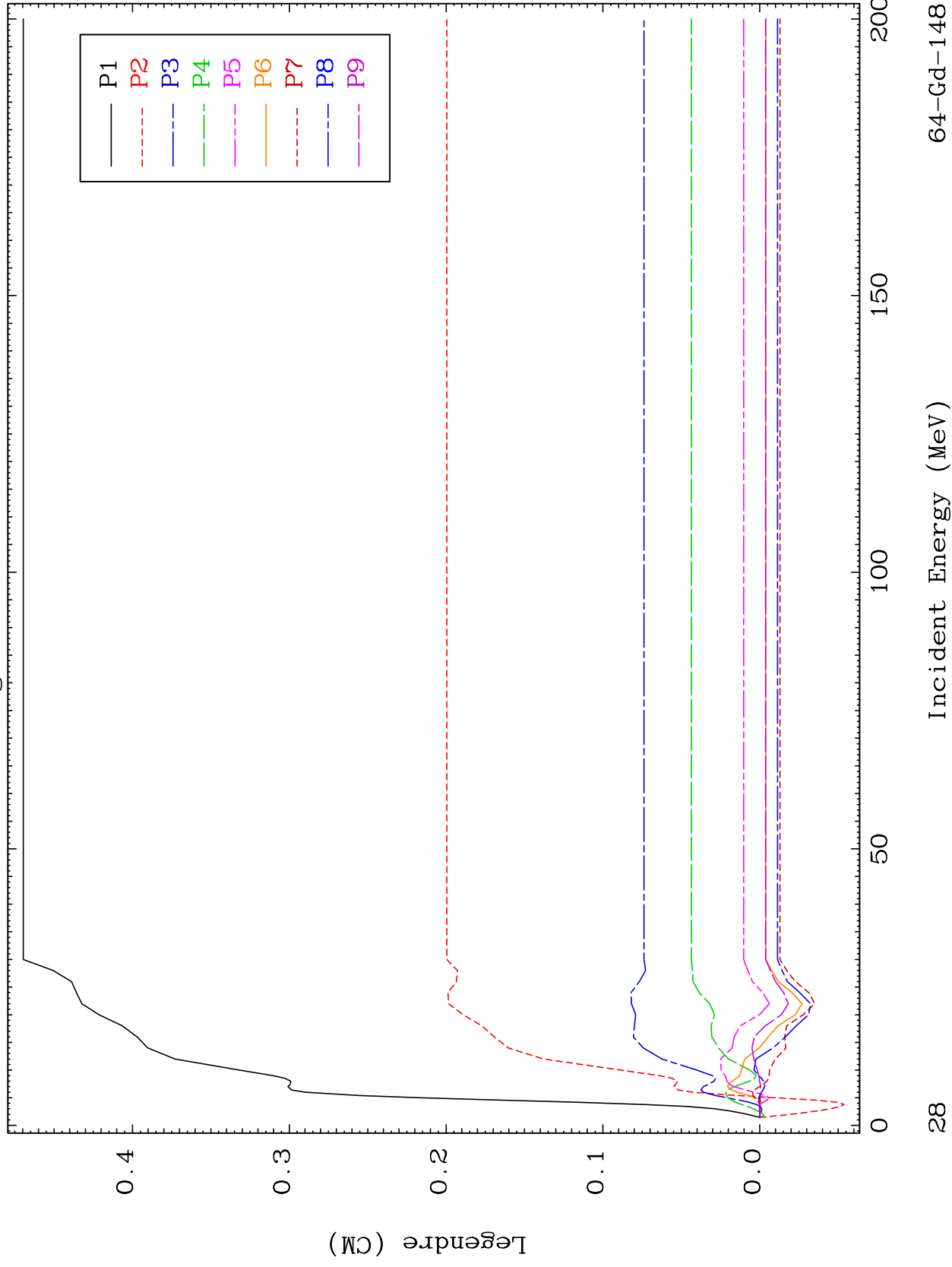
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



64-Gd-148

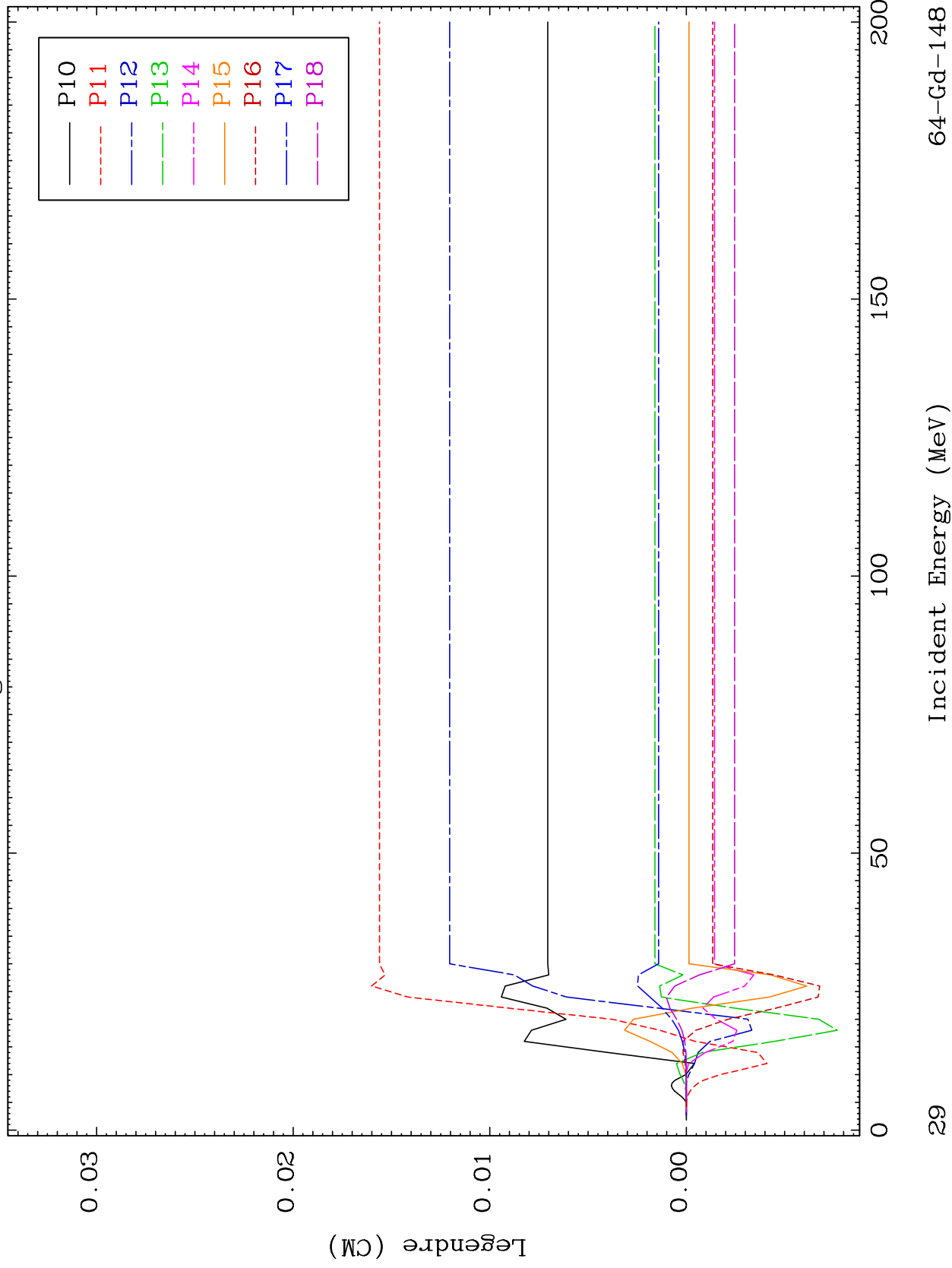
Incident Energy (MeV)

28

MAT 6413

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

64-Gd-148



64-Gd-148

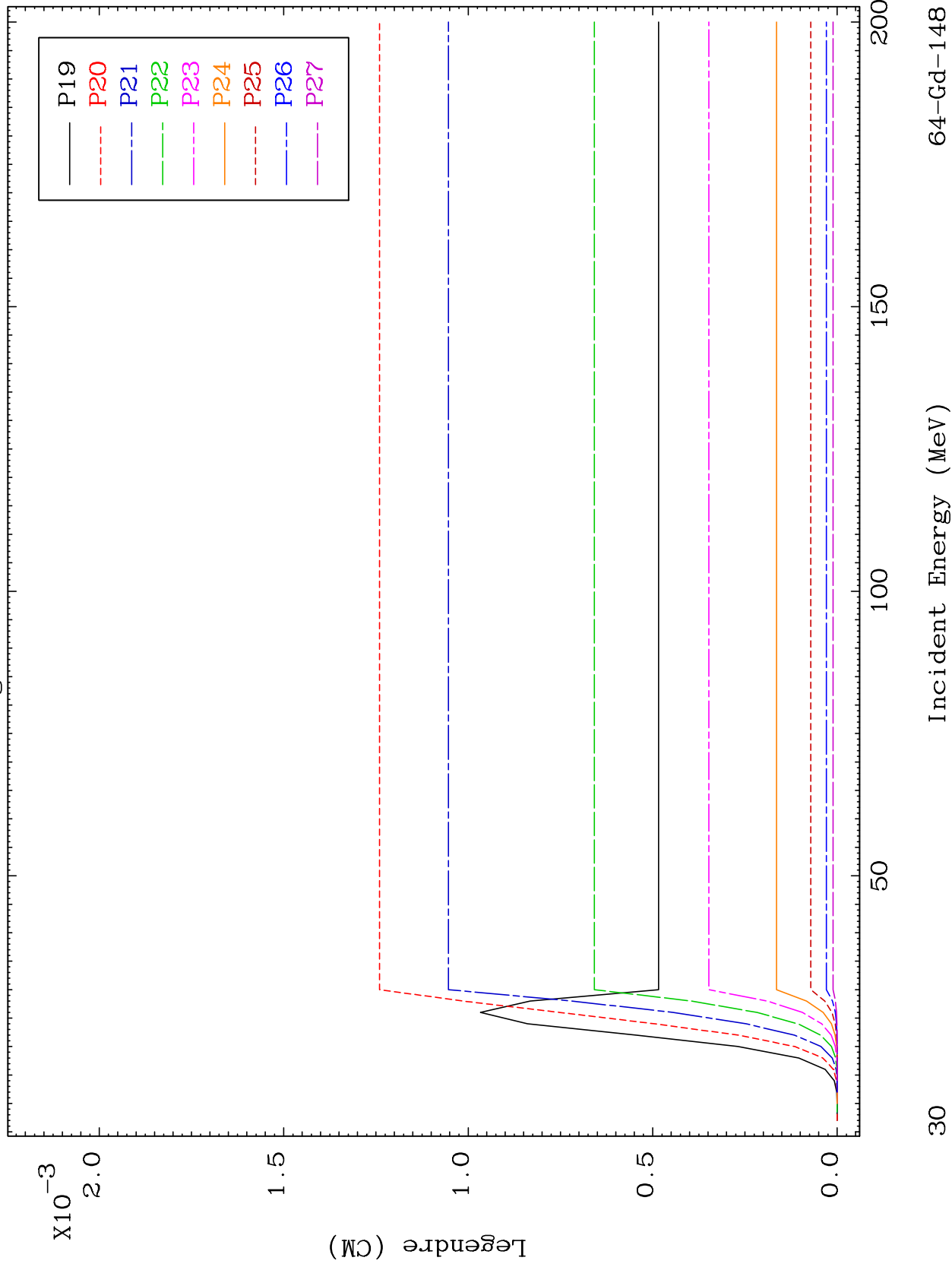
Incident Energy (MeV)

29

MAT 6413

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

64-Gd-148



64-Gd-148

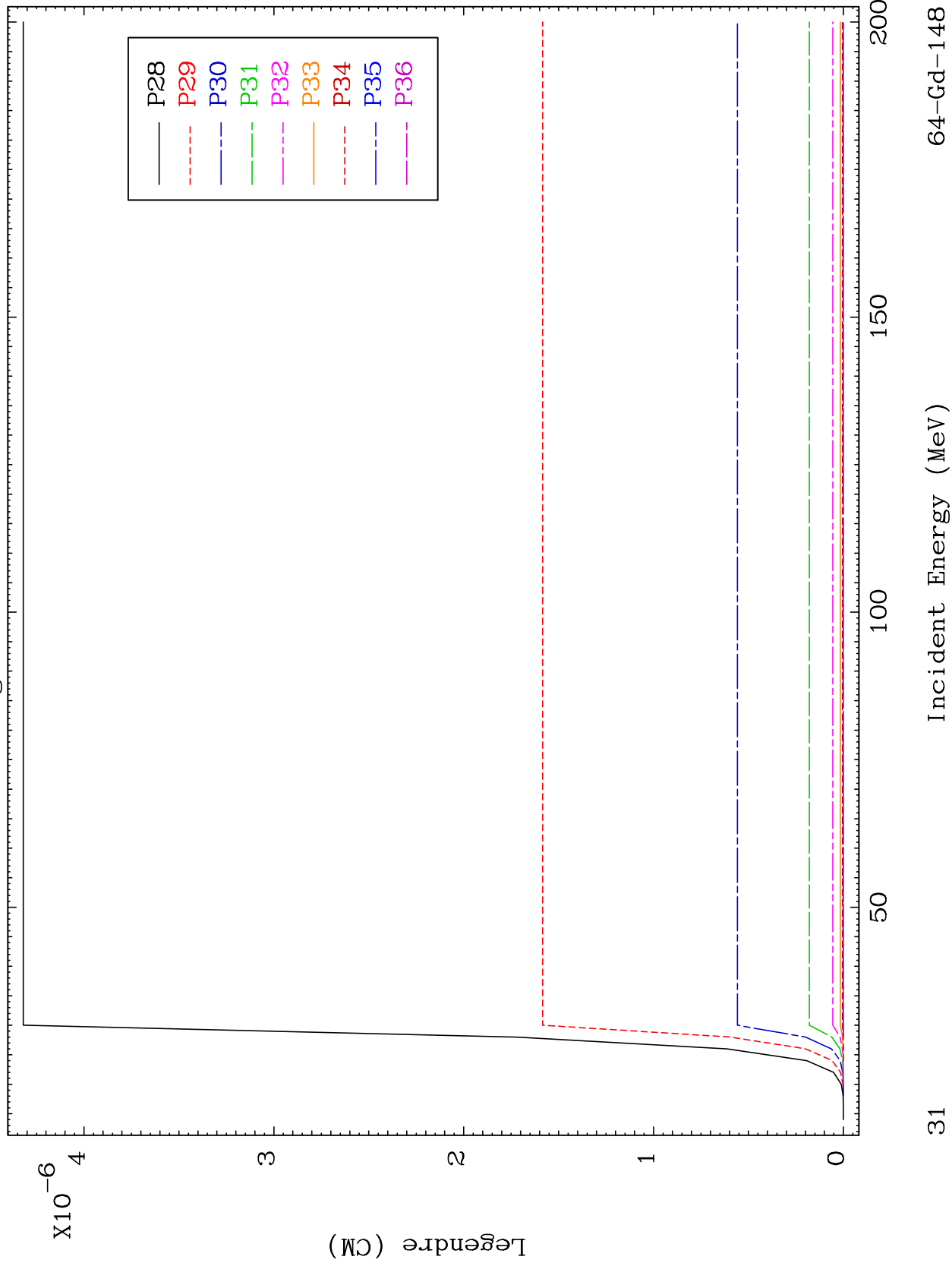
Incident Energy (MeV)

30

MAT 6413

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

64-Gd-148



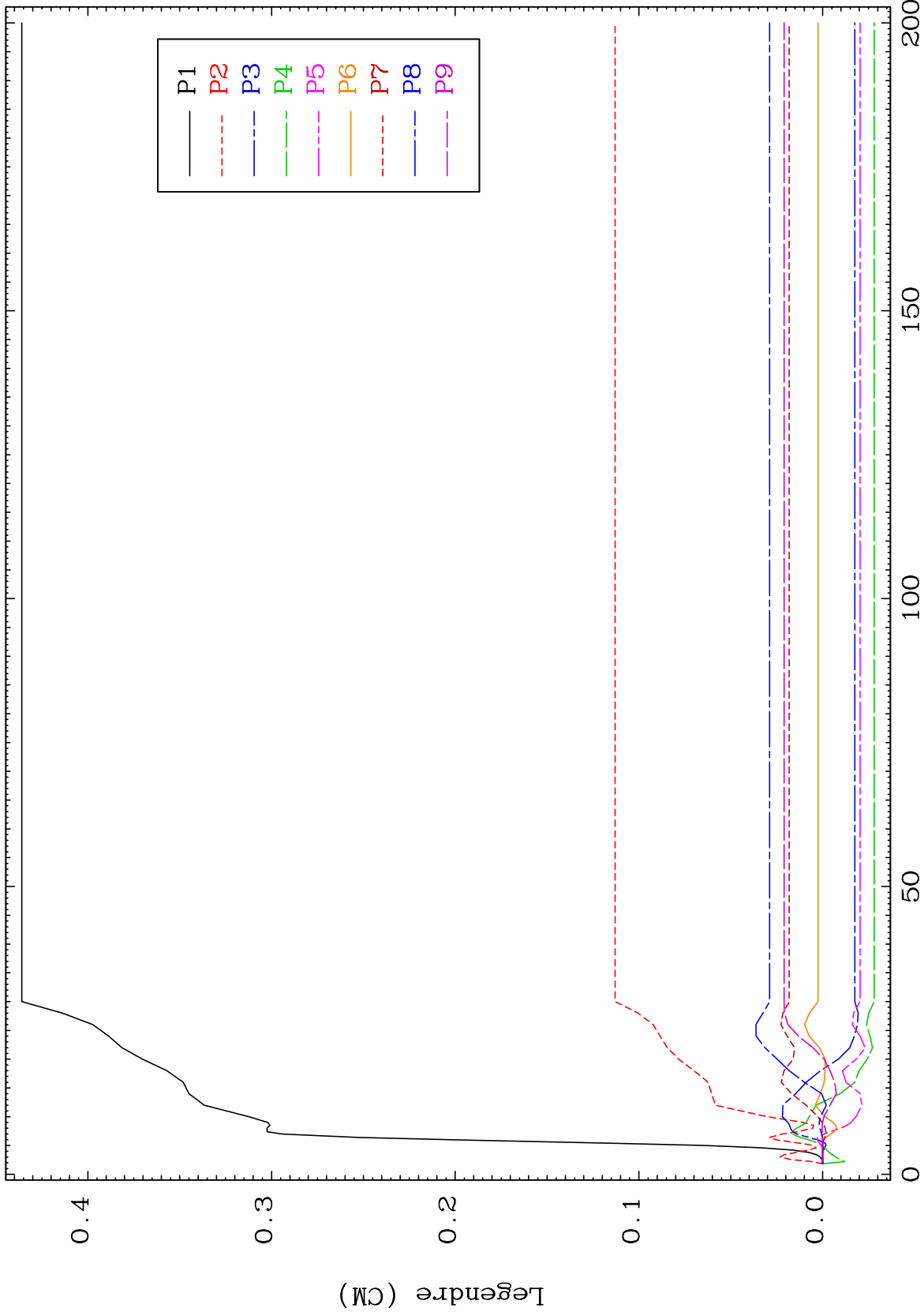
31

64-Gd-148

MAT 6413

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

64-Gd-148



32

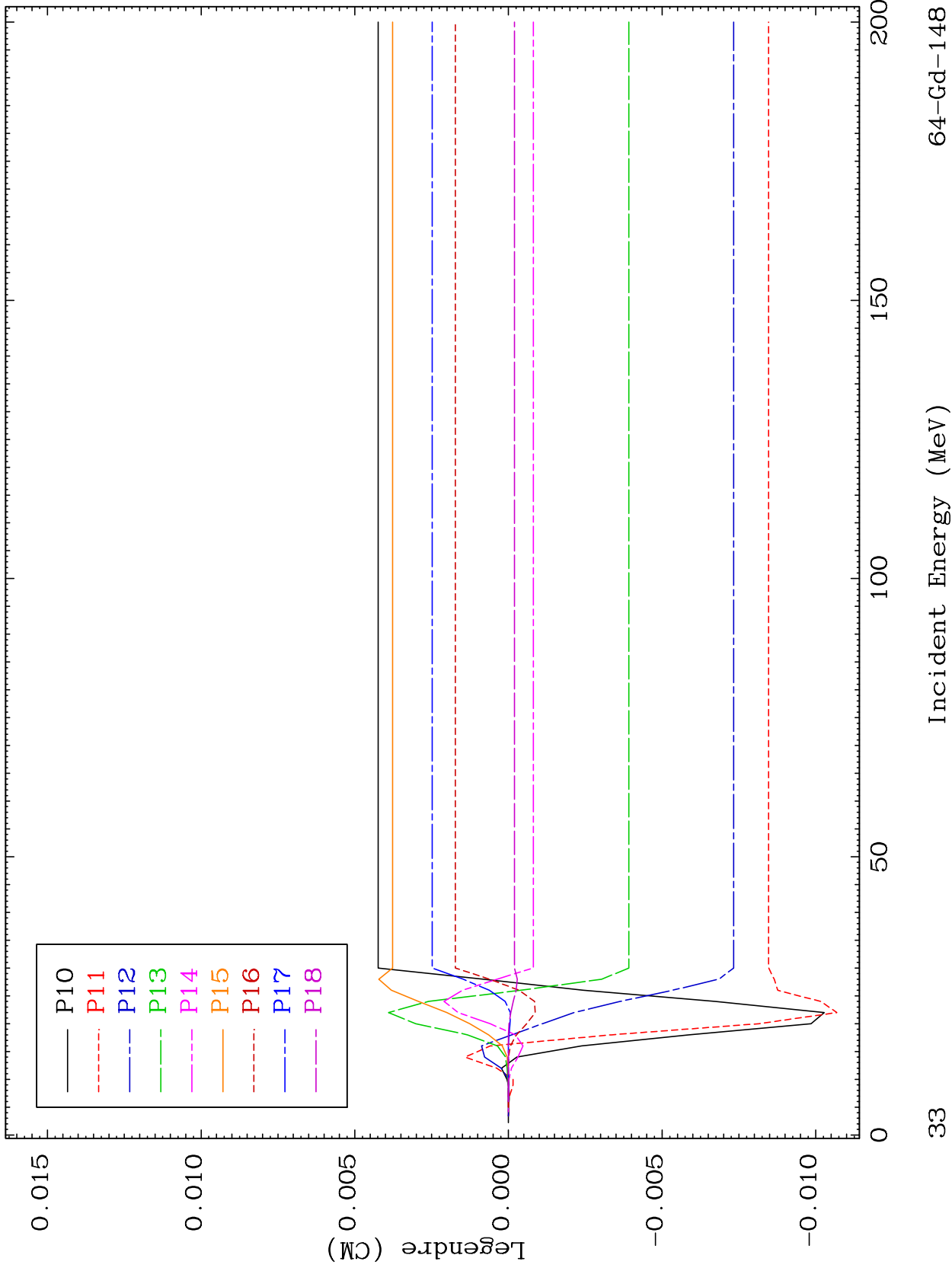
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



33

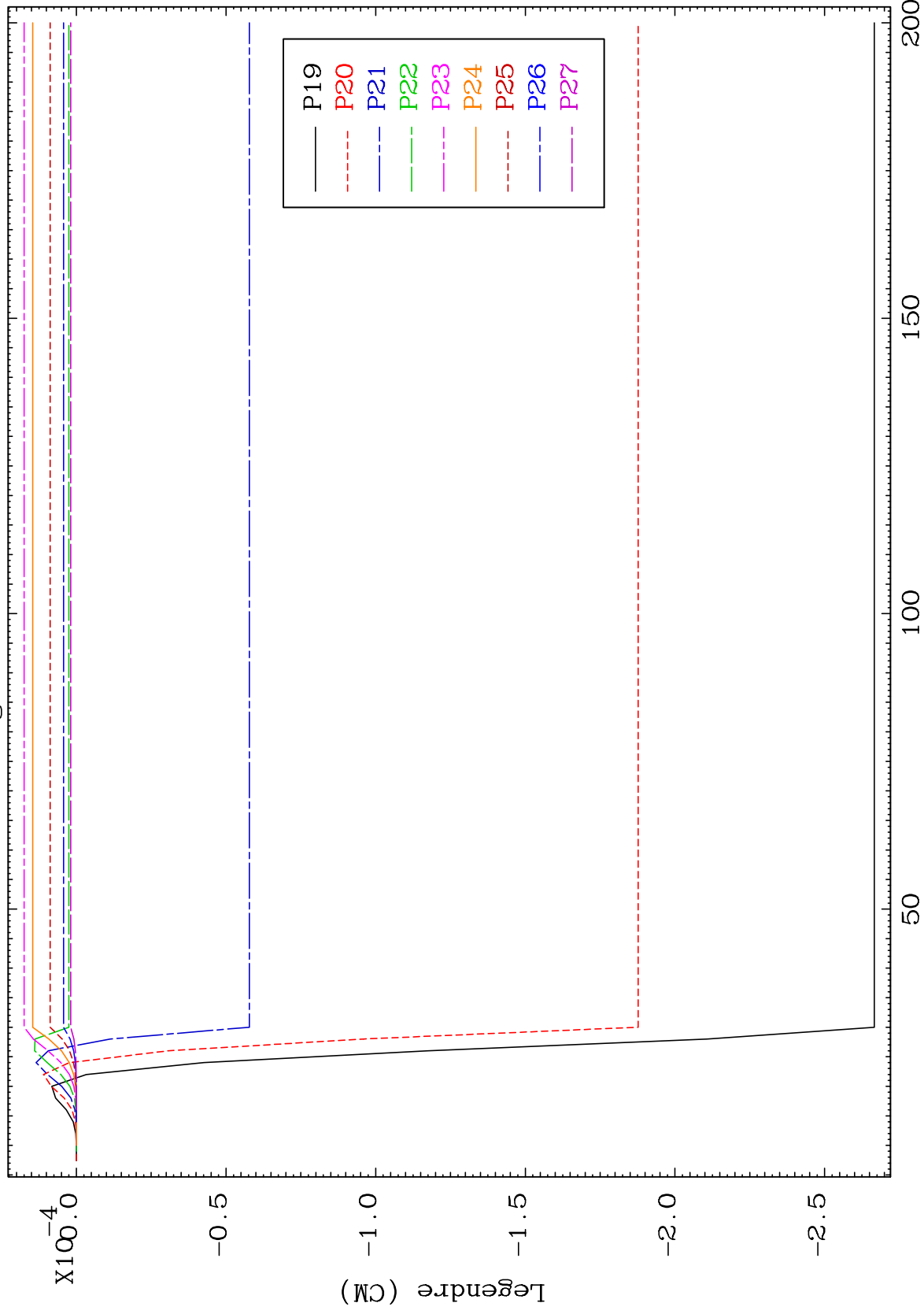
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

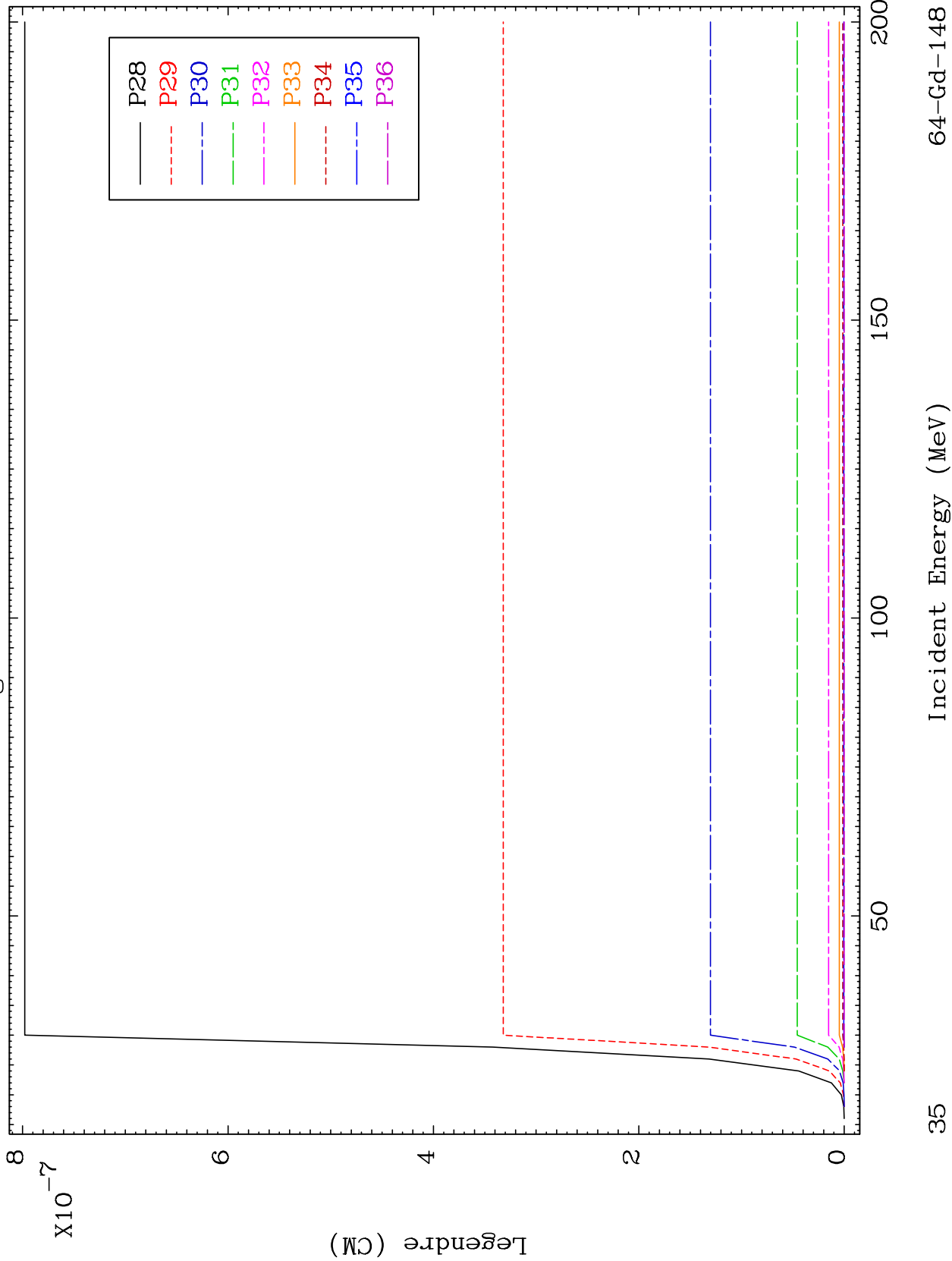
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MAT 6413

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

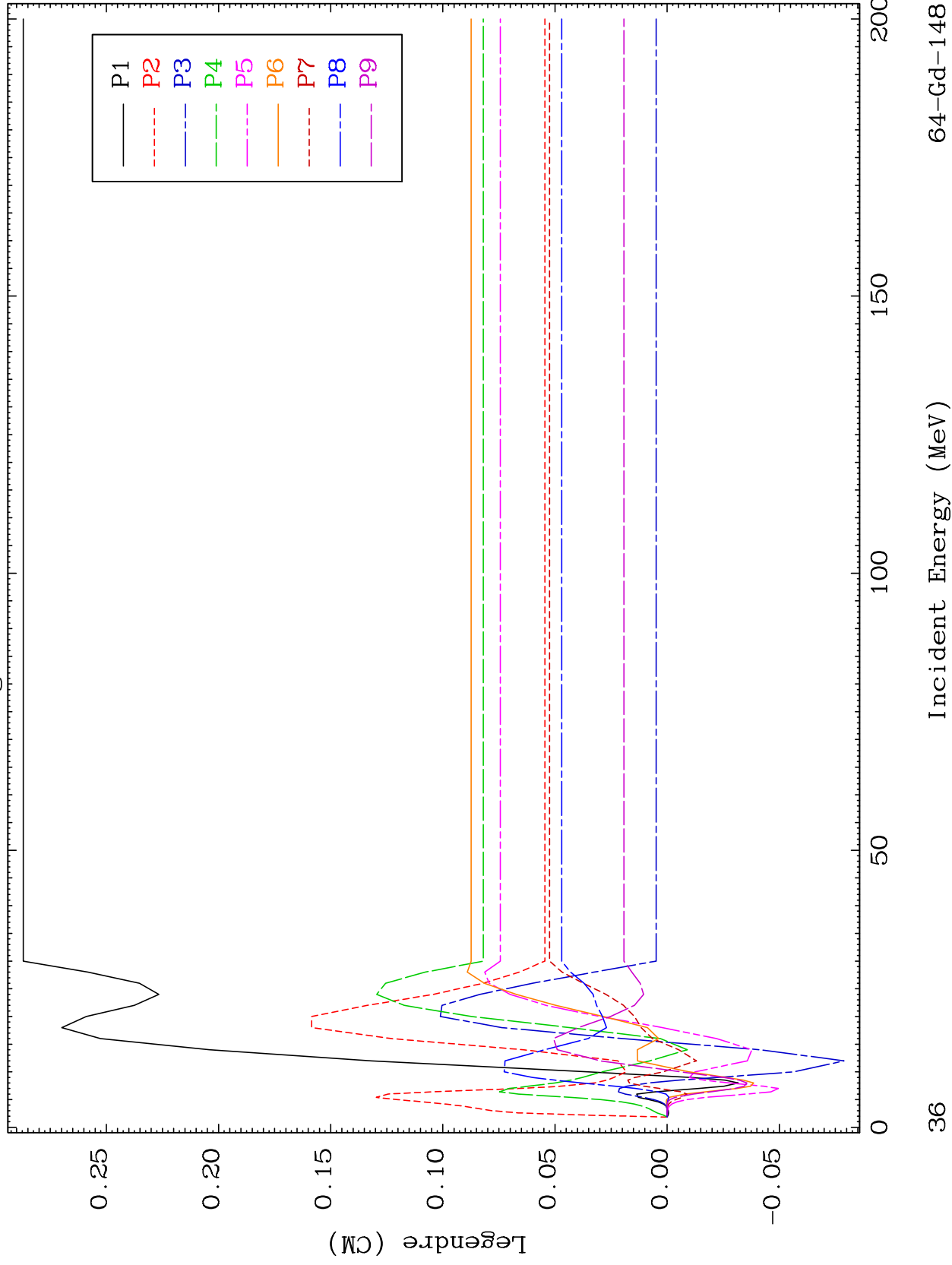
64-Gd-148



MAT 6413

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

64-Gd-148



64-Gd-148

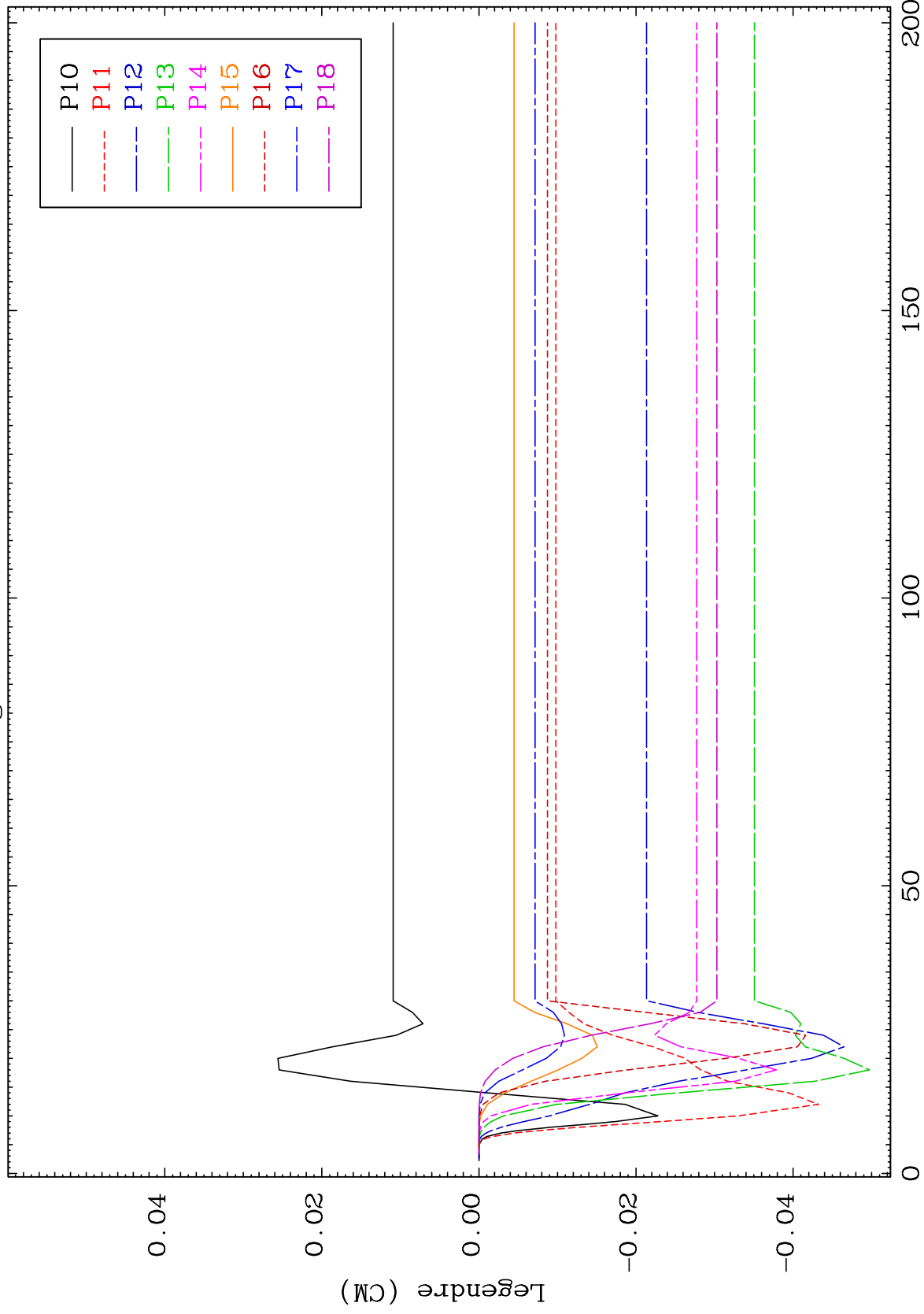
Incident Energy (MeV)

36

MAT 6413

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

64-Gd-148



37

Incident Energy (MeV)

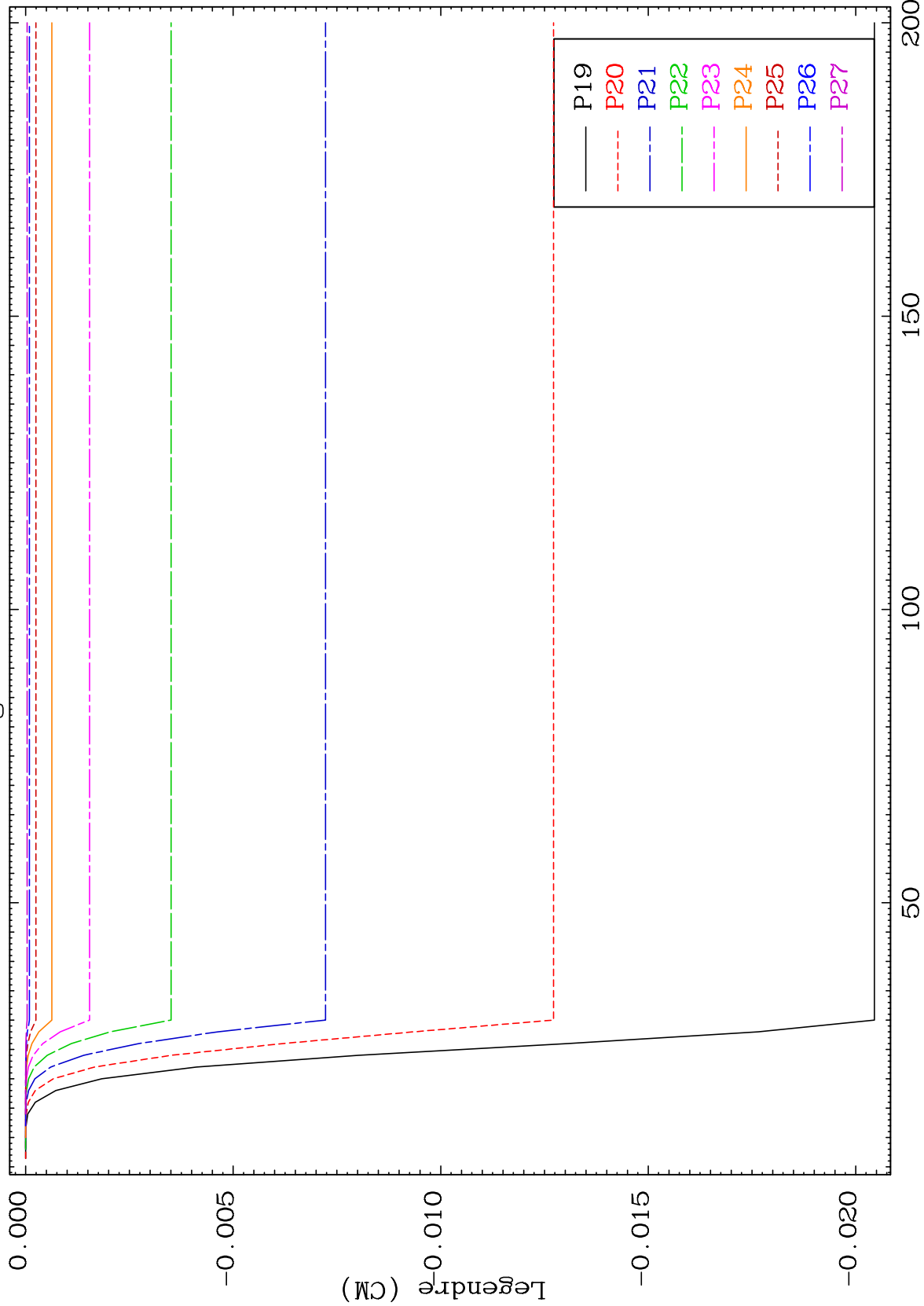
64-Gd-148

MAT 6413

MT= 55 (n,n') Level

64-Gd-148

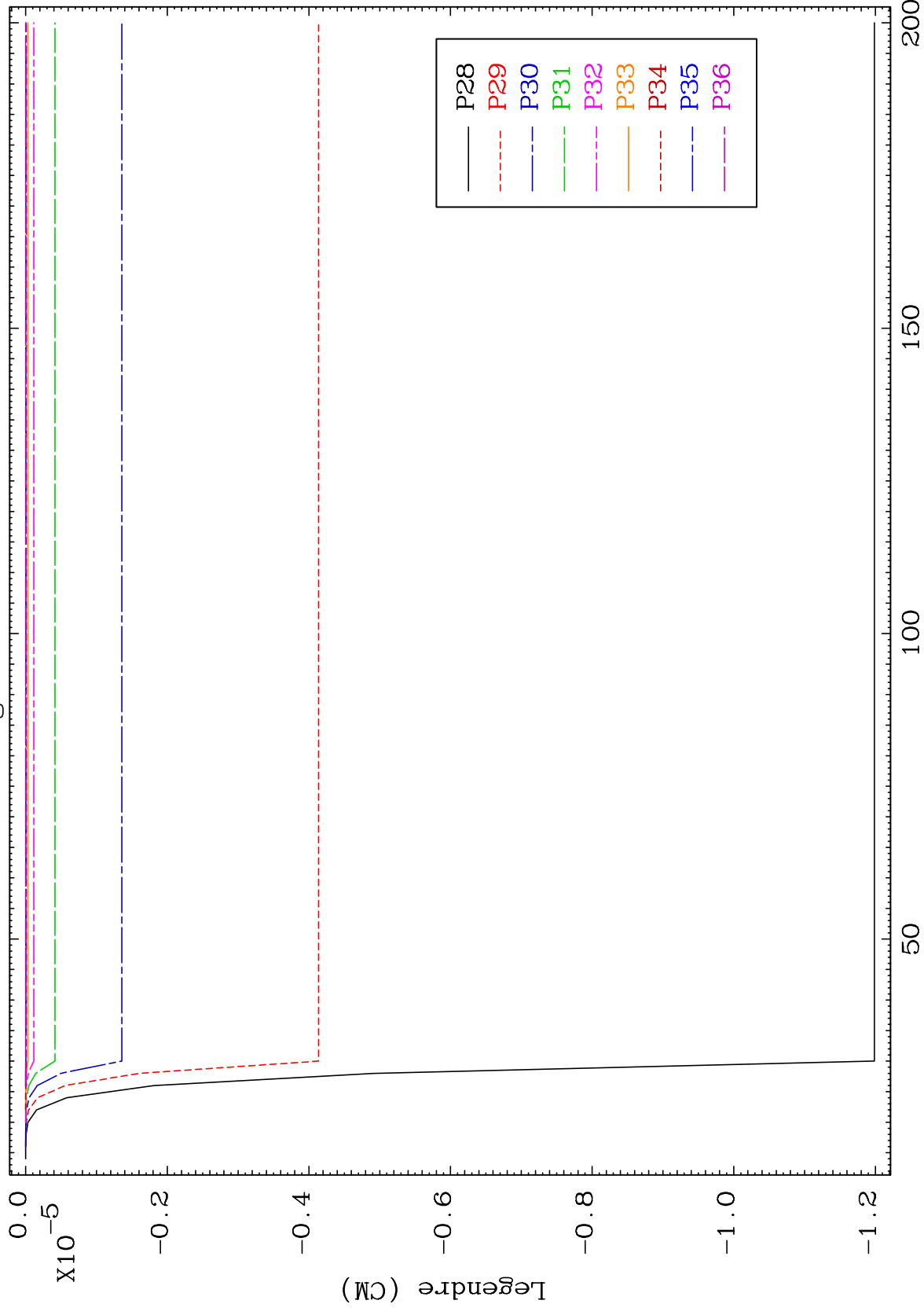
Legendre Coefficients



MAT 6413

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

64-Gd-148



39

Incident Energy (MeV)

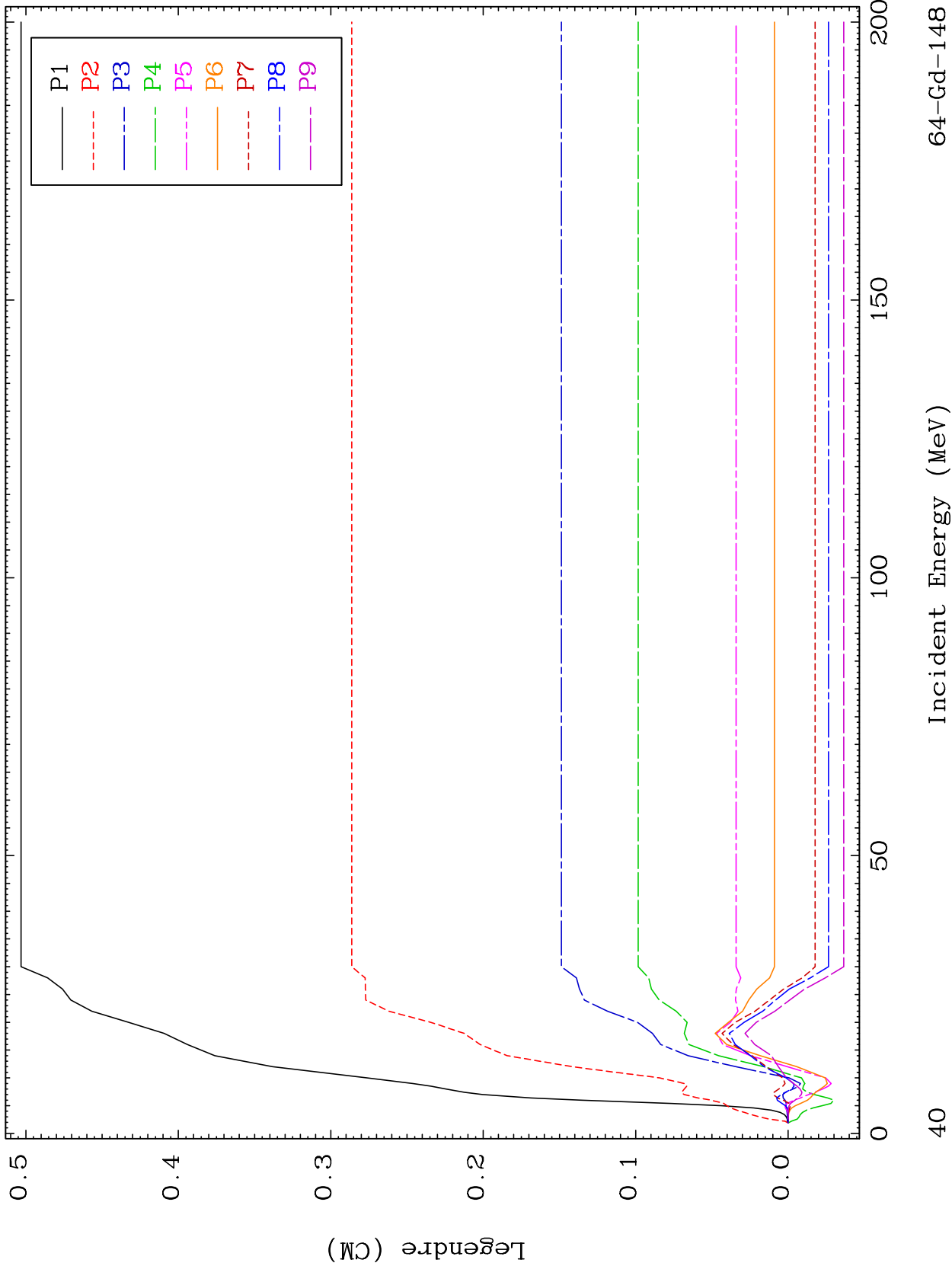
64-Gd-148

MAT 6413

MT= 56 (n,n') Level

64-Gd-148

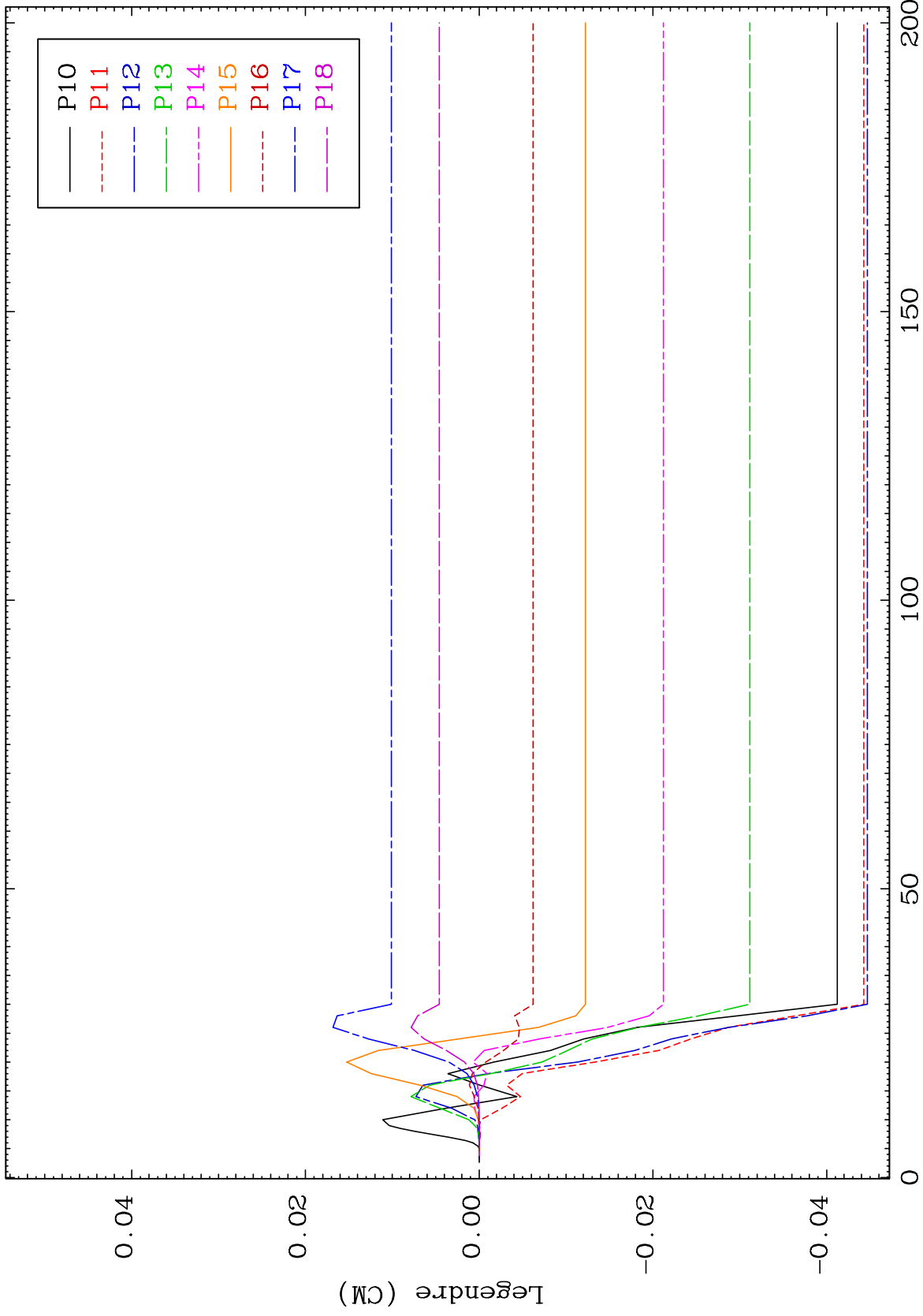
Legendre Coefficients



MAT 6413

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

64-Gd-148



41

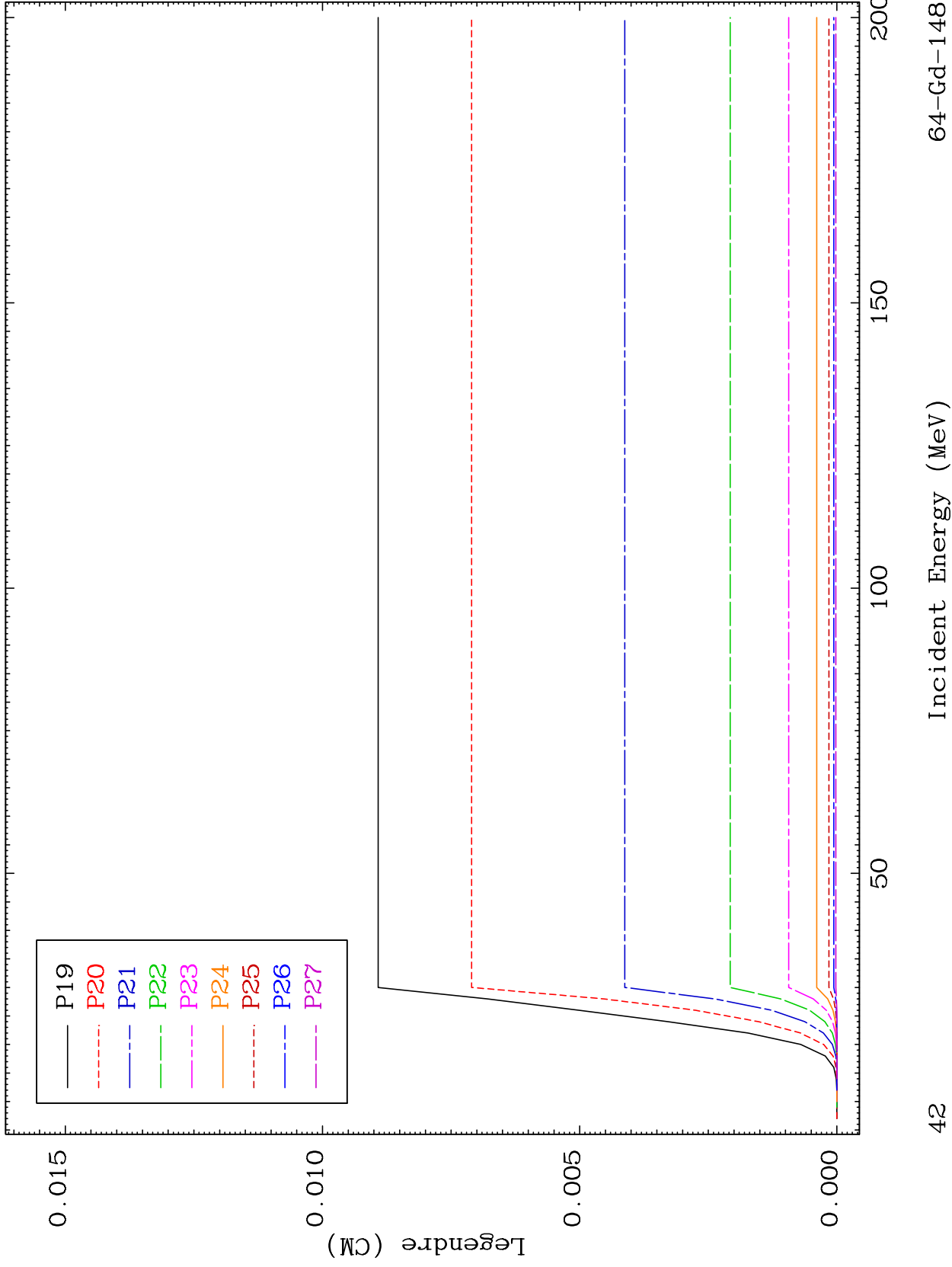
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



42

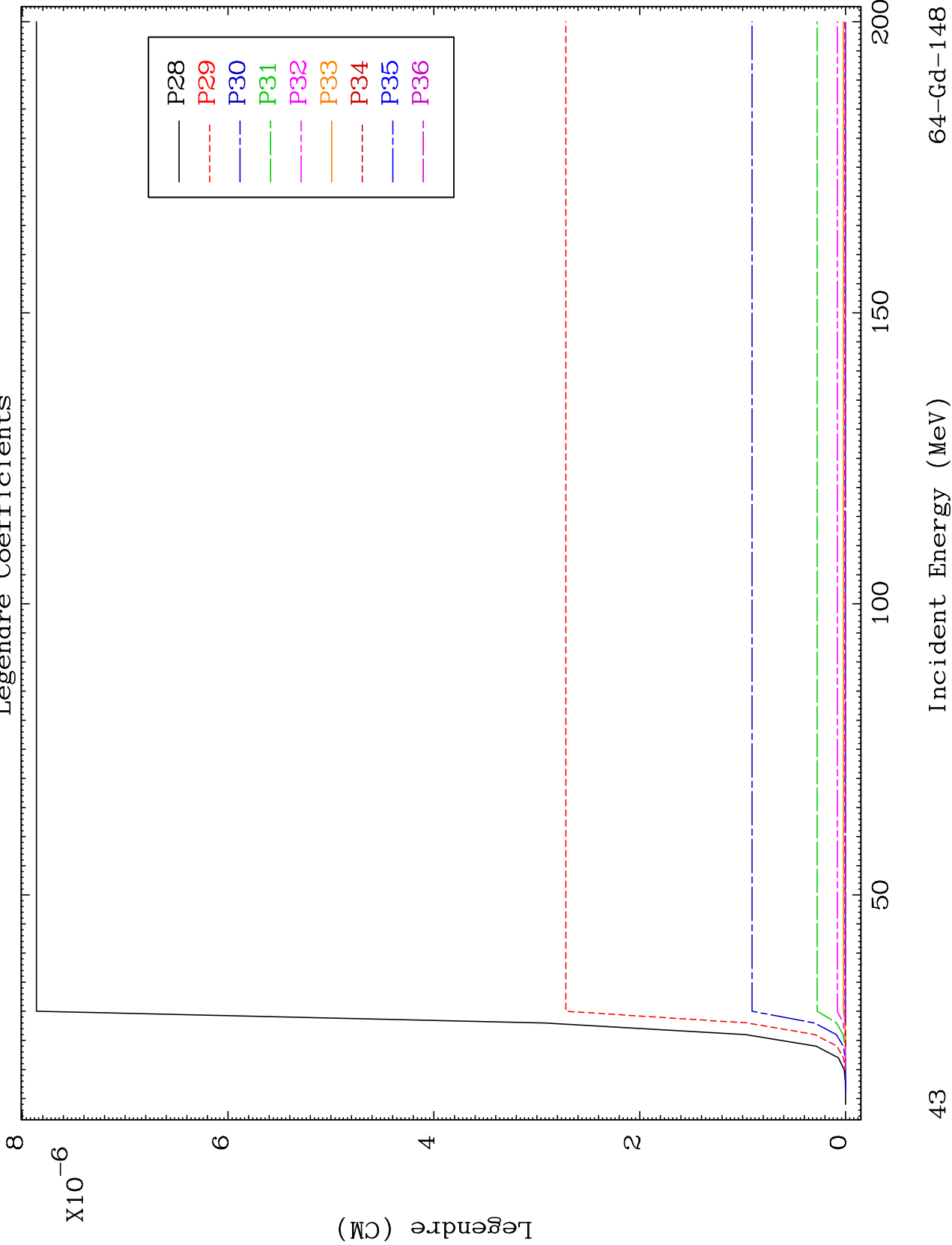
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



43

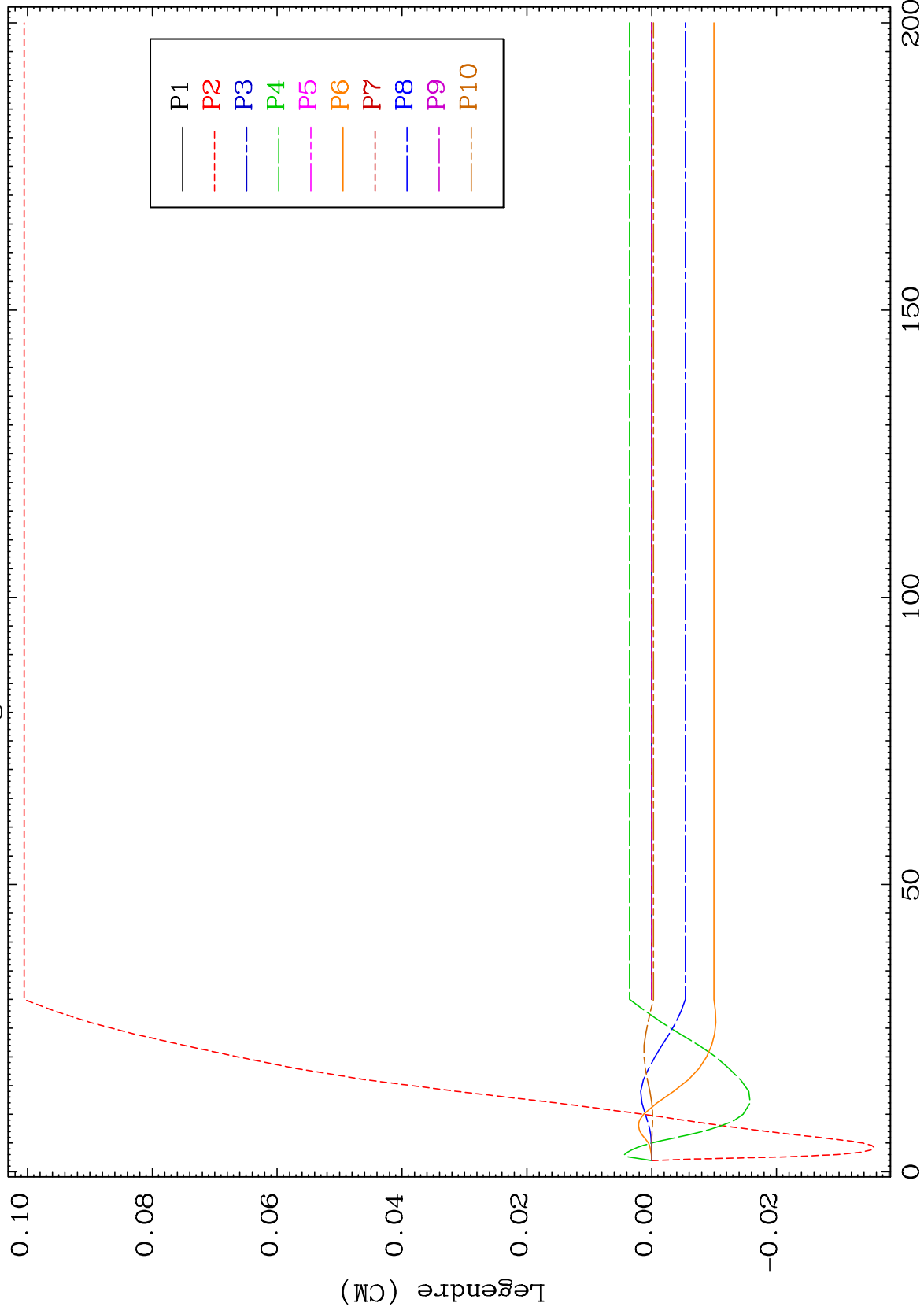
Incident Energy (MeV)

64-Gd-148

MAT 6413

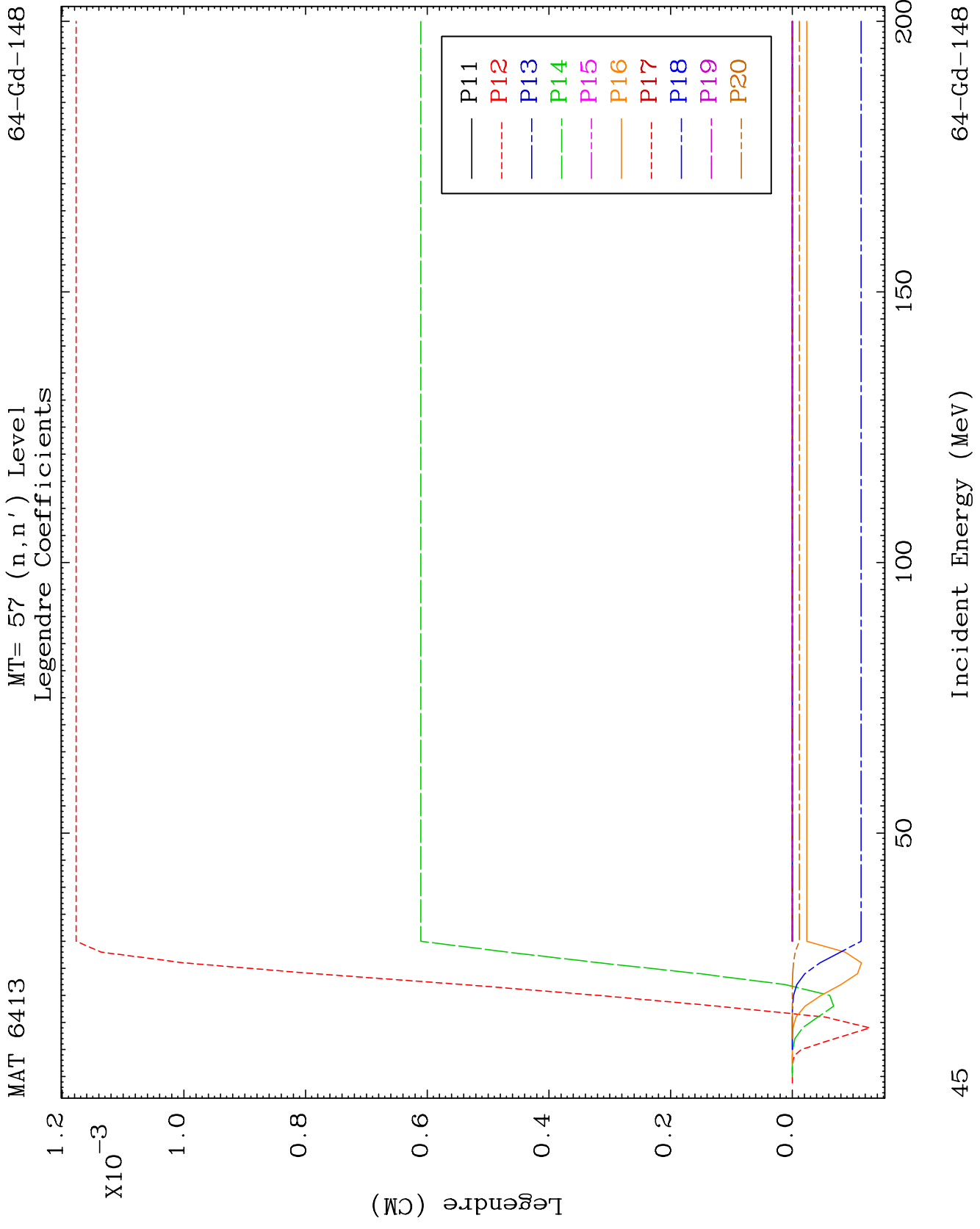
MT= 57 (n,n') Level
Legendre Coefficients

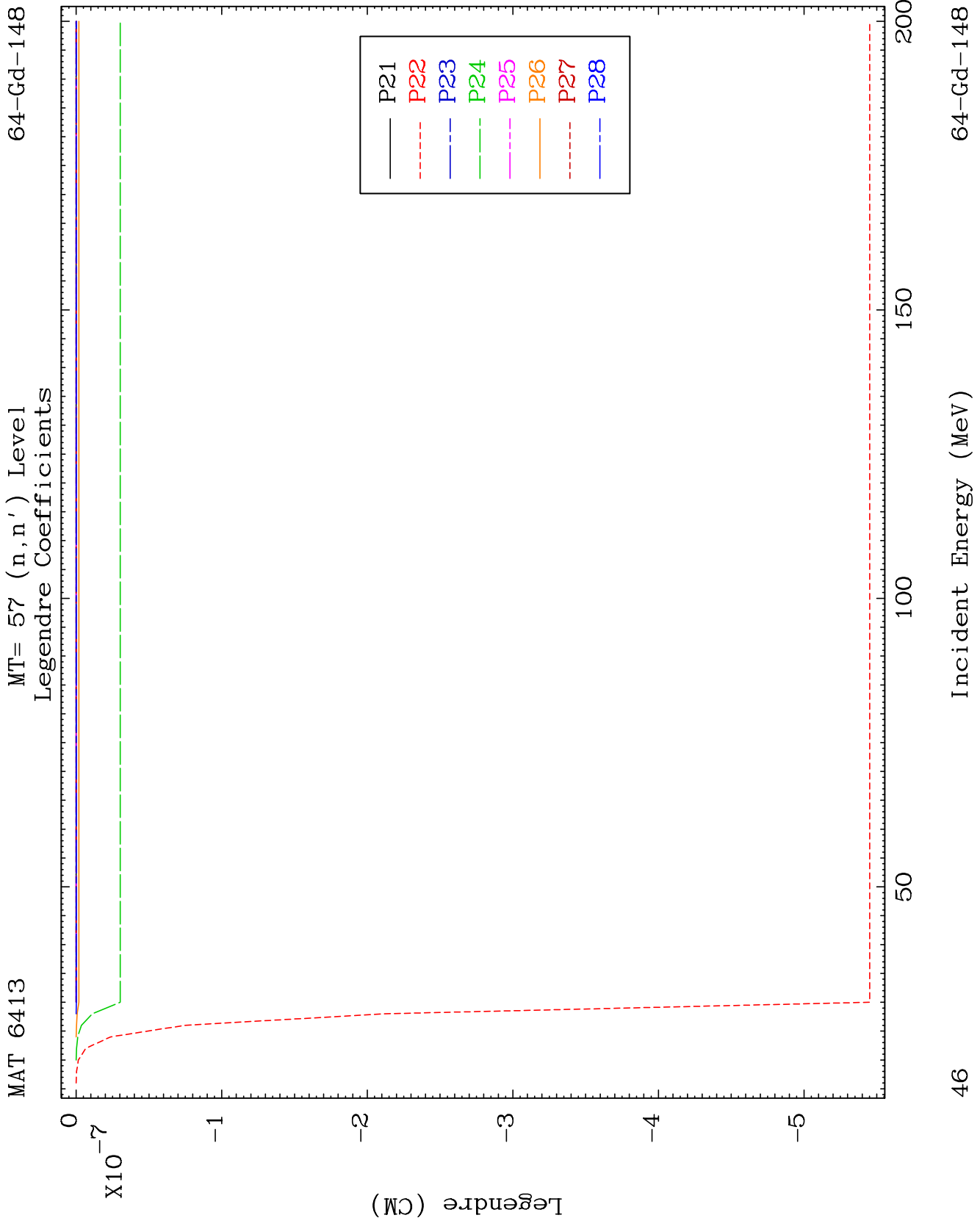
64-Gd-148



44

64-Gd-148

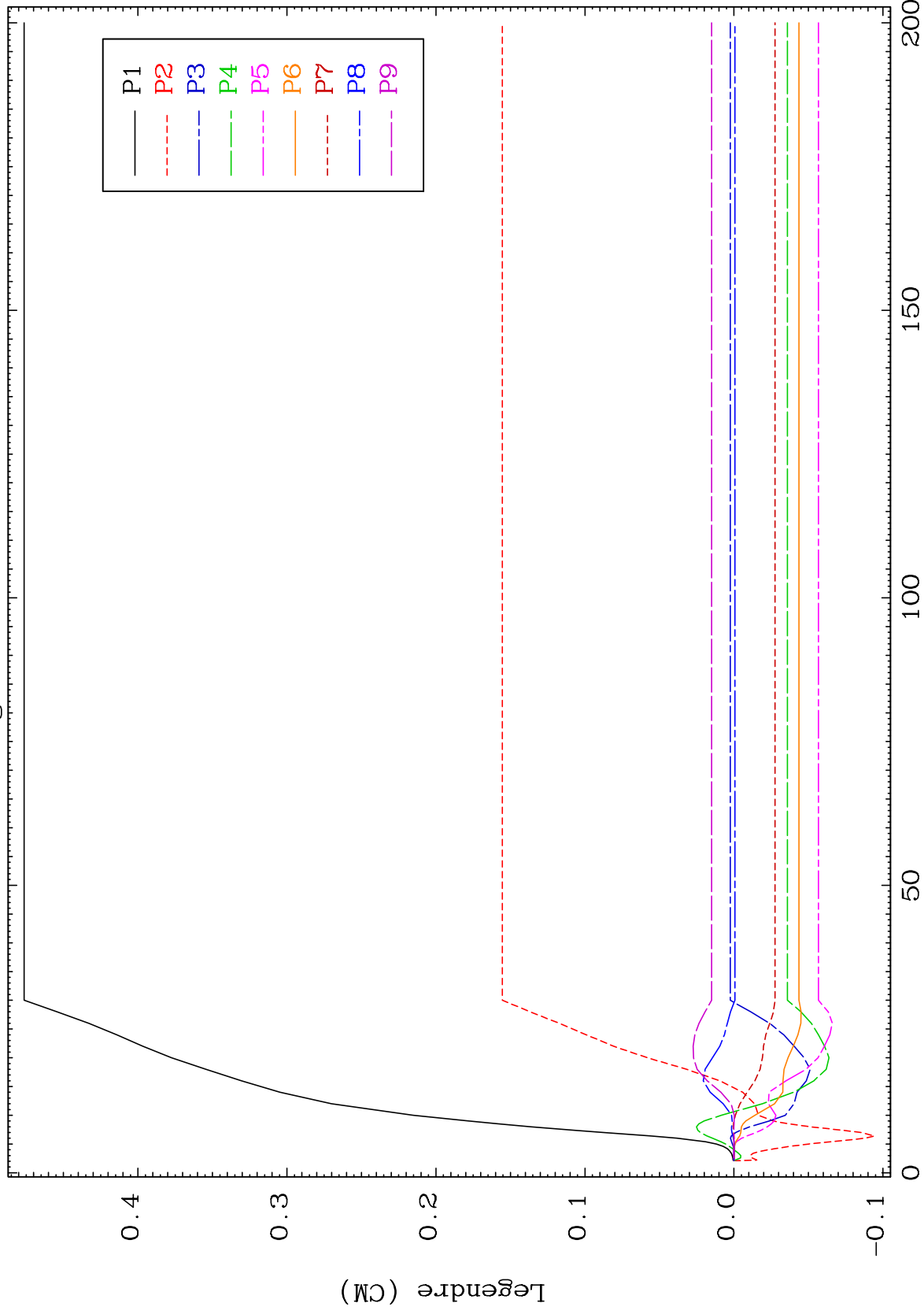




MAT 6413

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

64-Gd-148



47

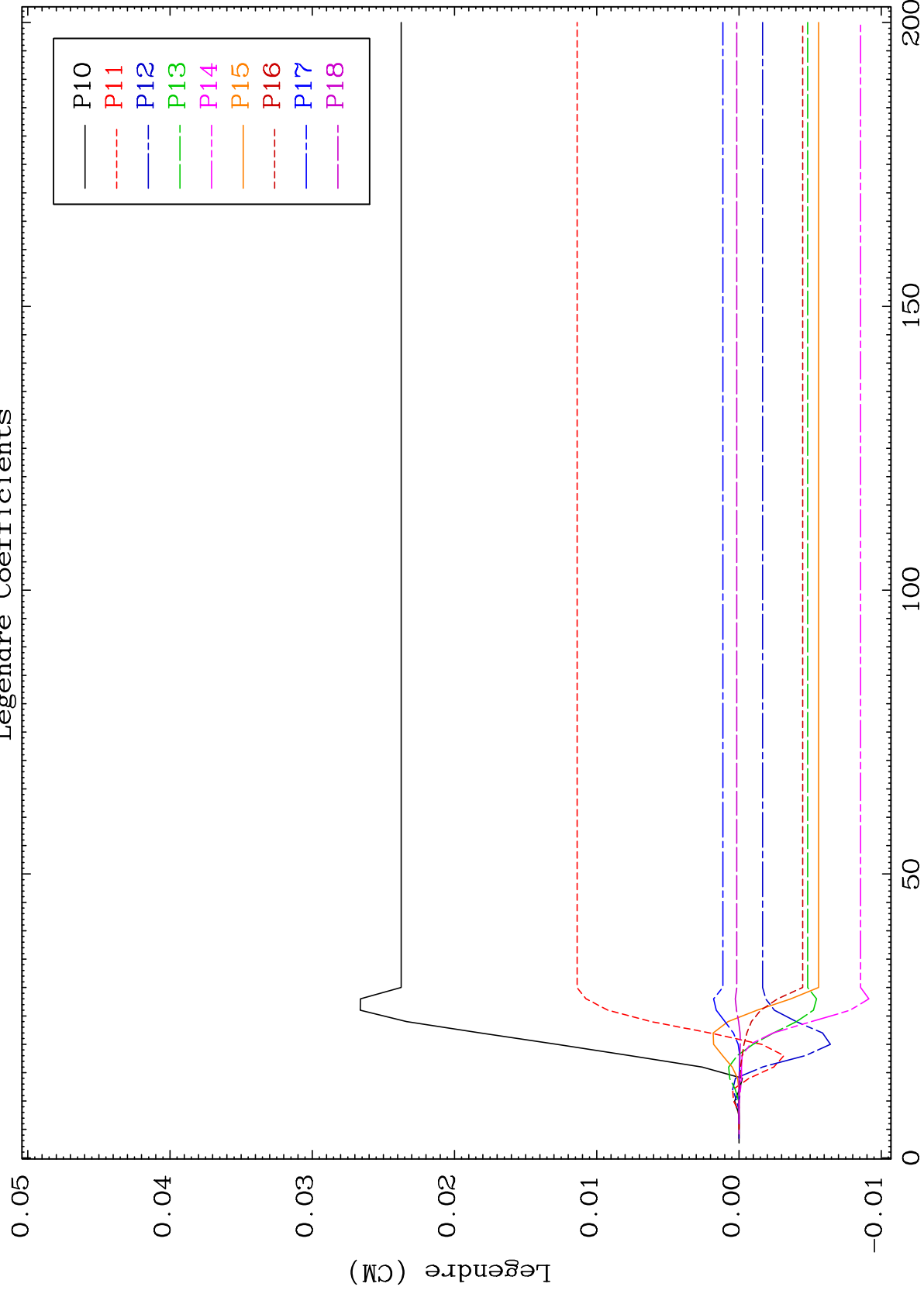
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



48

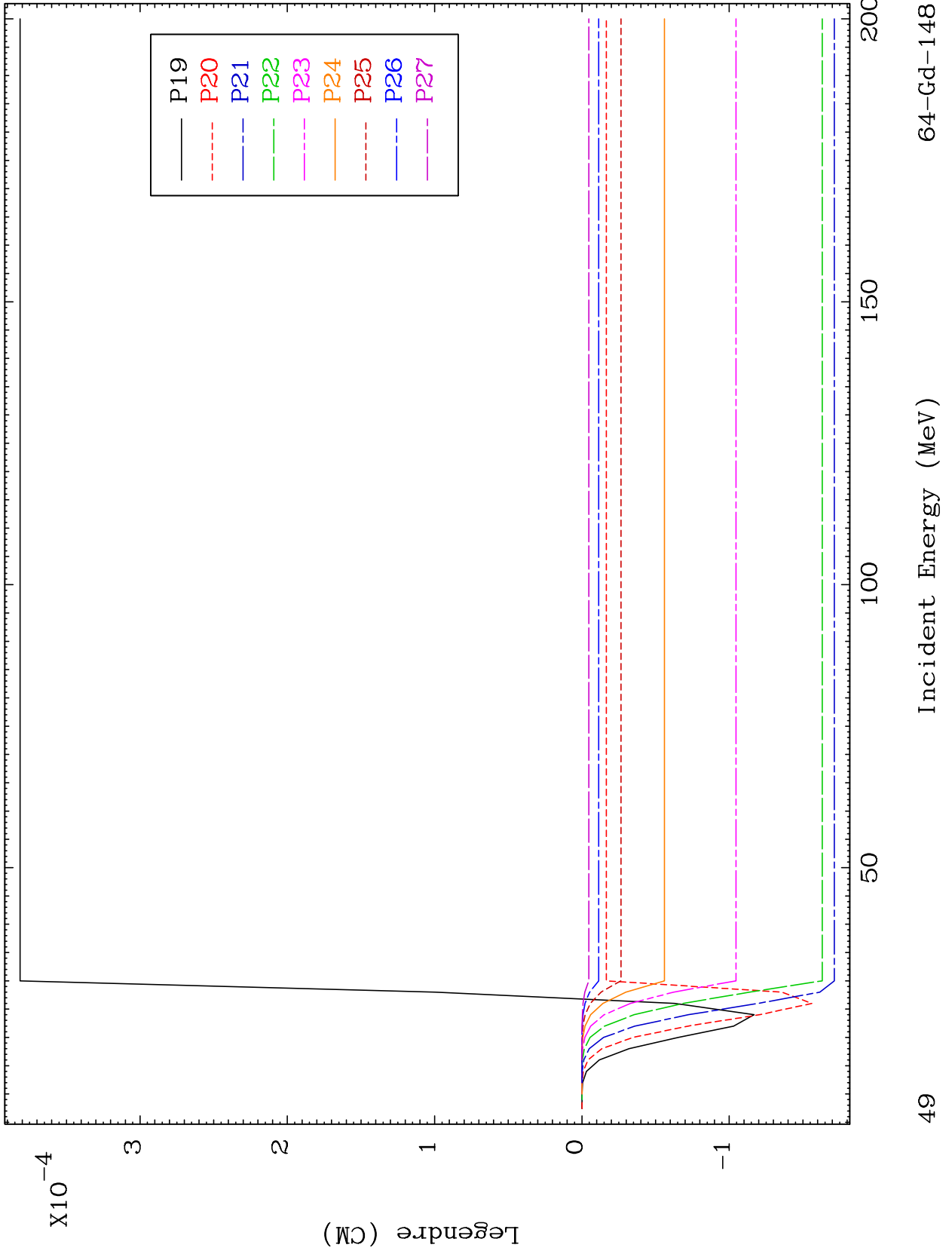
Incident Energy (MeV)

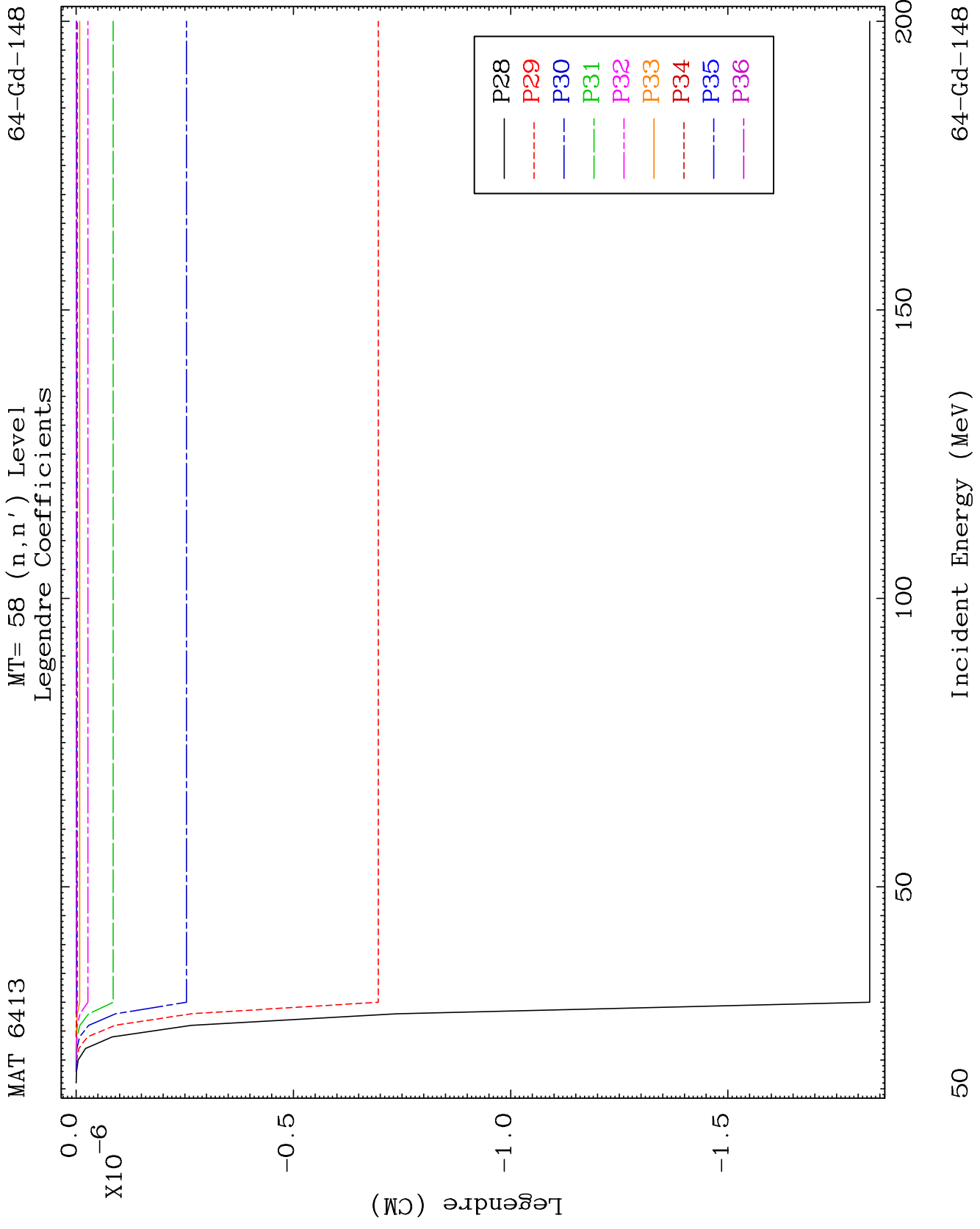
64-Gd-148

MAT 6413

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

64-Gd-148

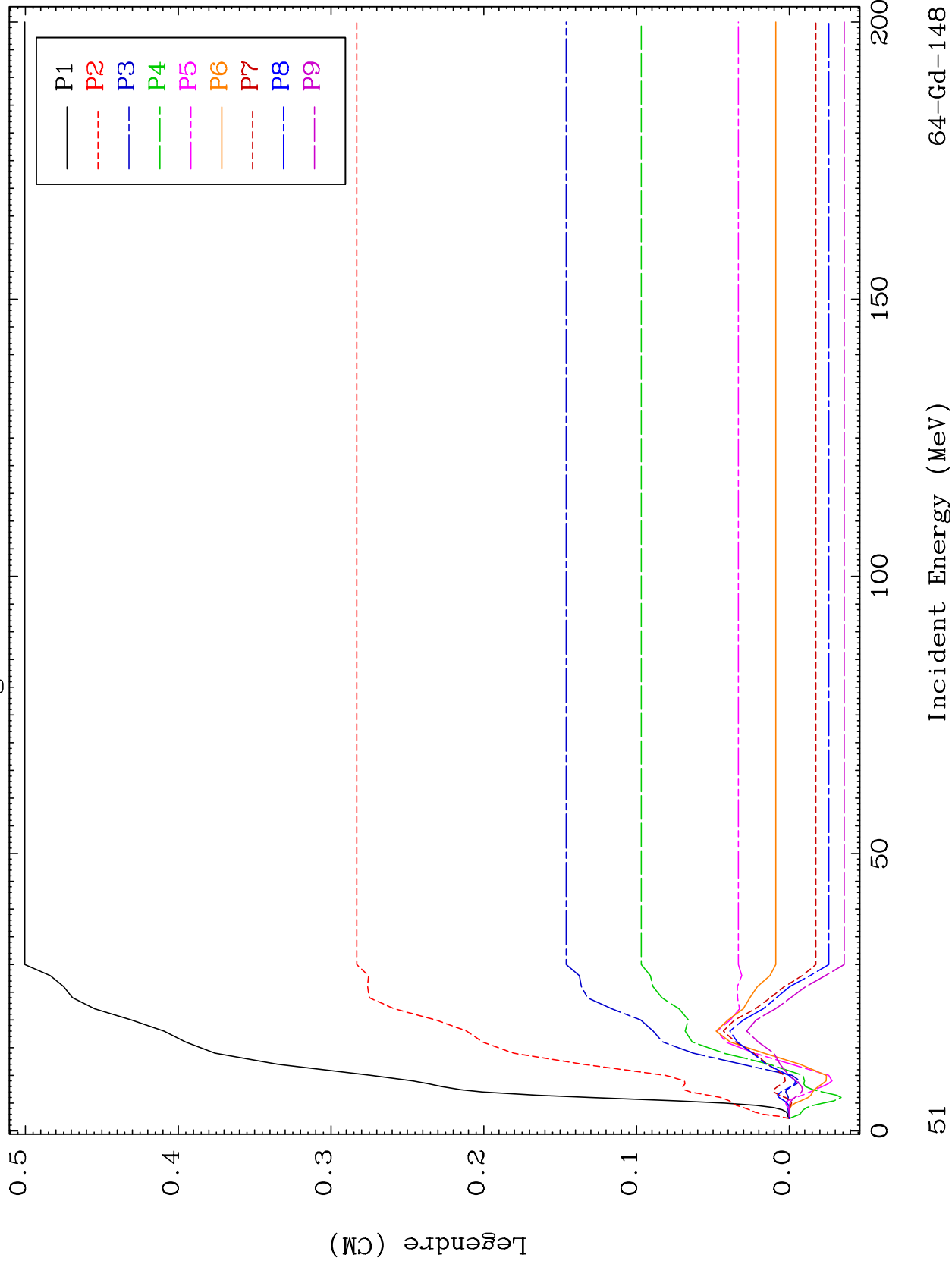




MAT 6413

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

64-Gd-148



51

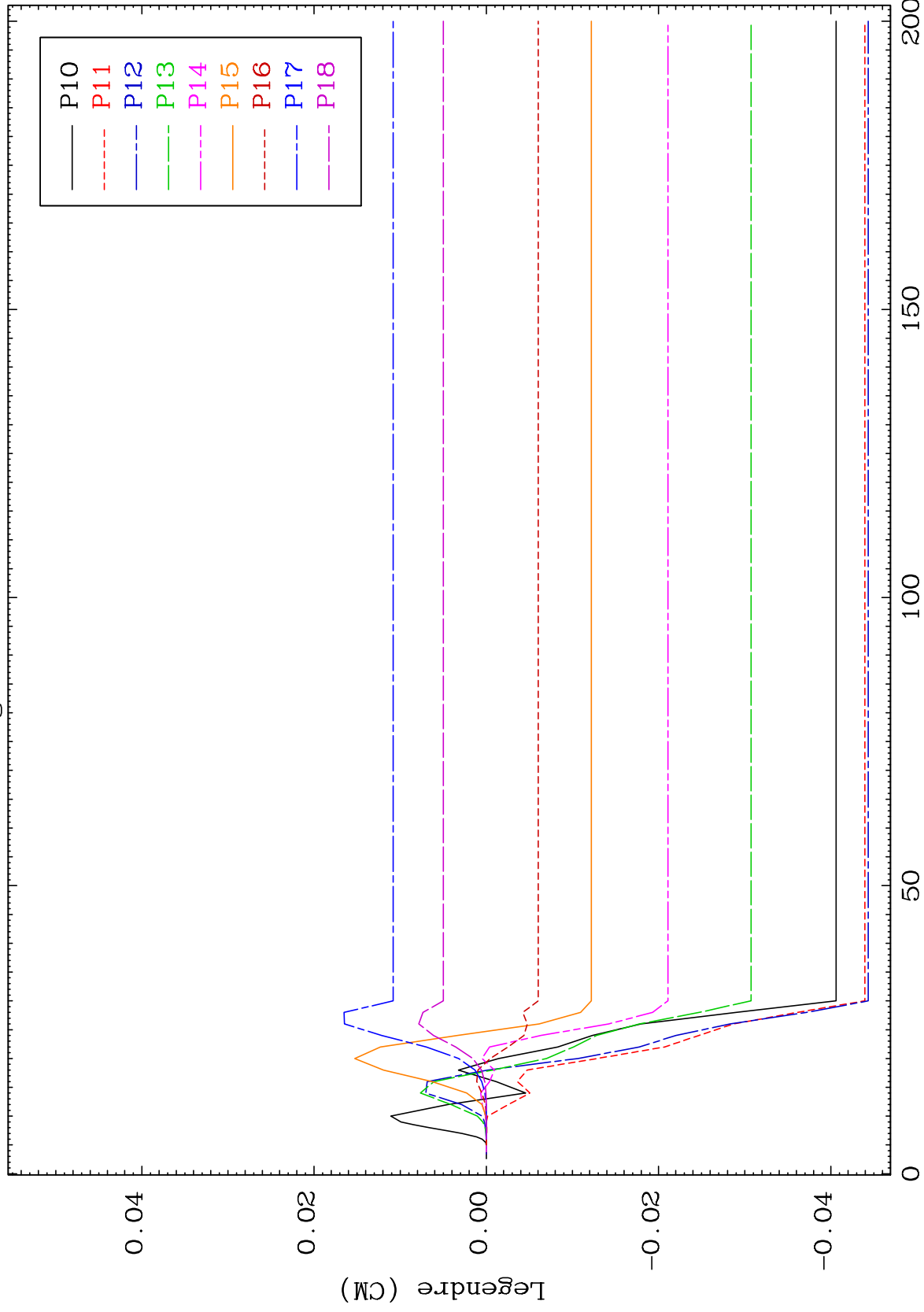
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

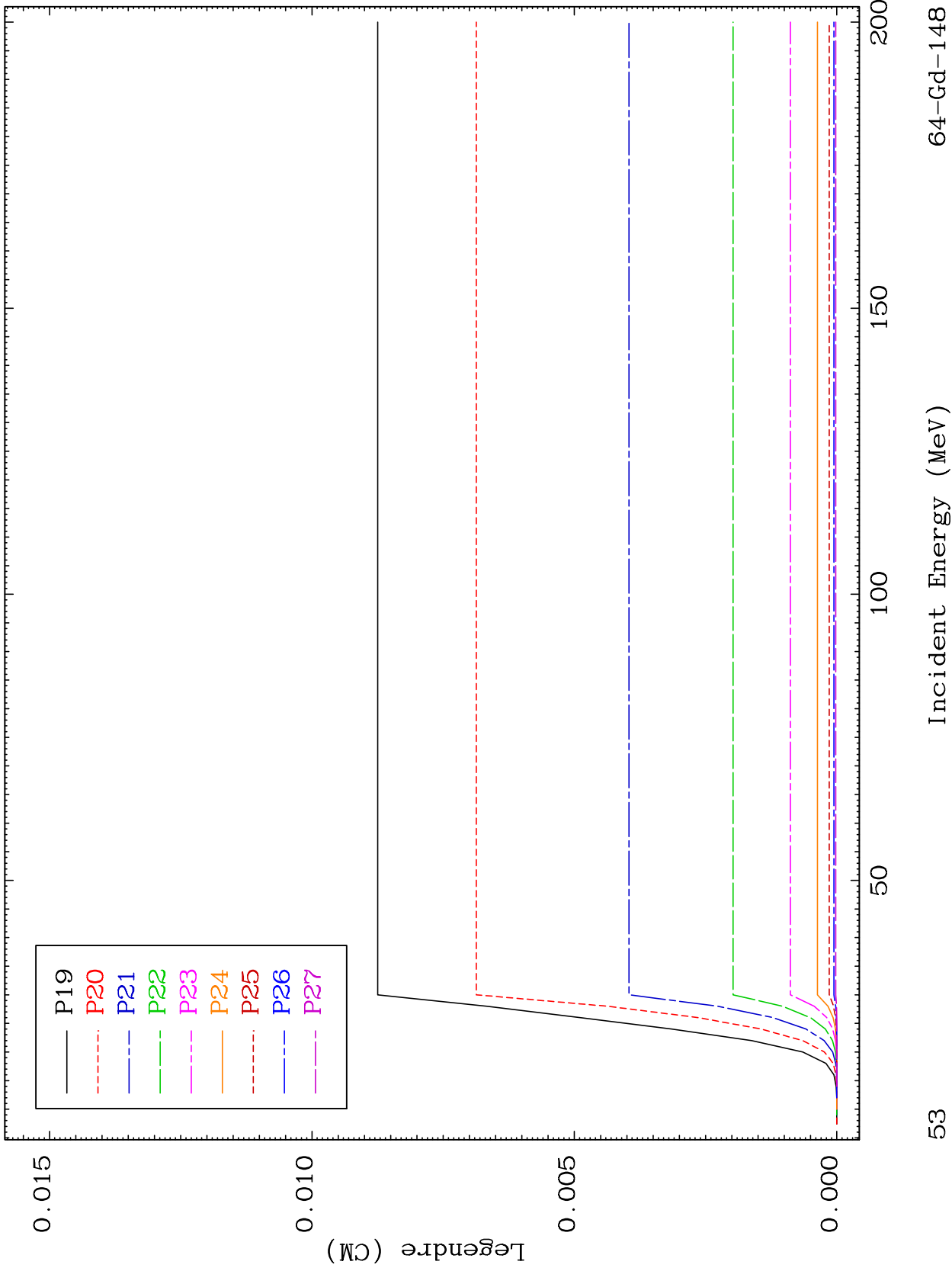
64-Gd-148



52

Incident Energy (MeV)

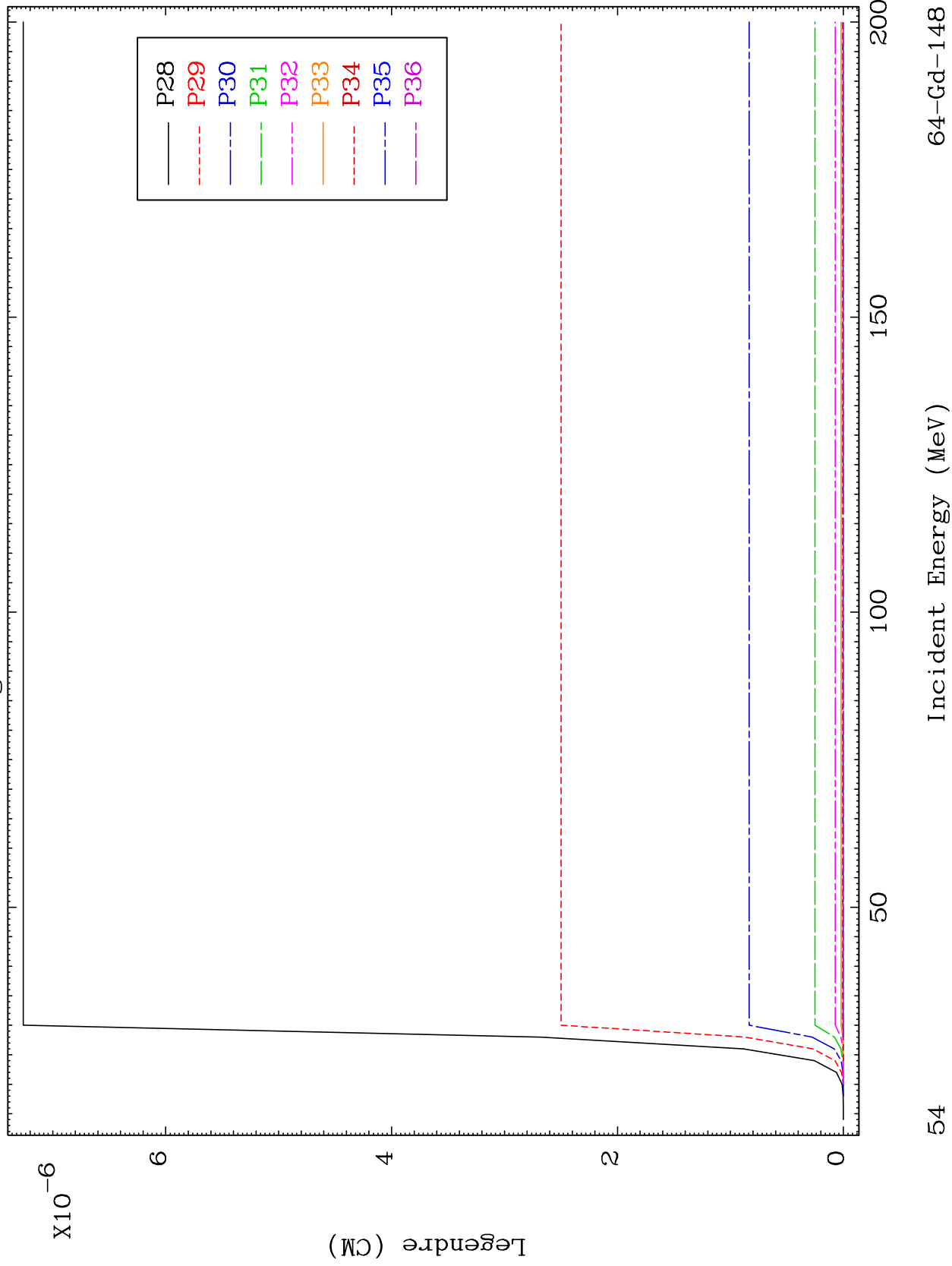
64-Gd-148



MAT 6413

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

64-Gd-148

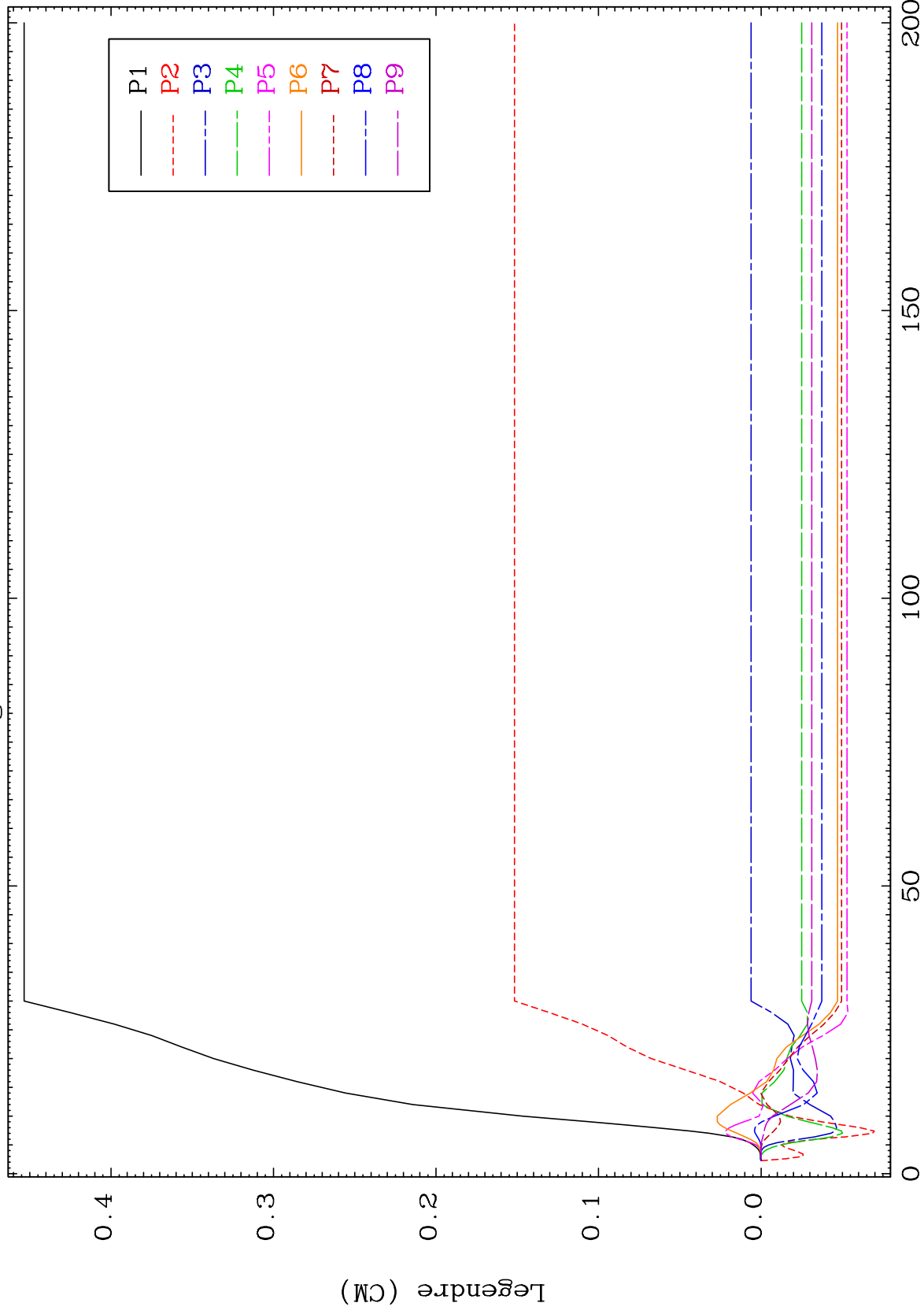


54

MAT 6413

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

64-Gd-148



55

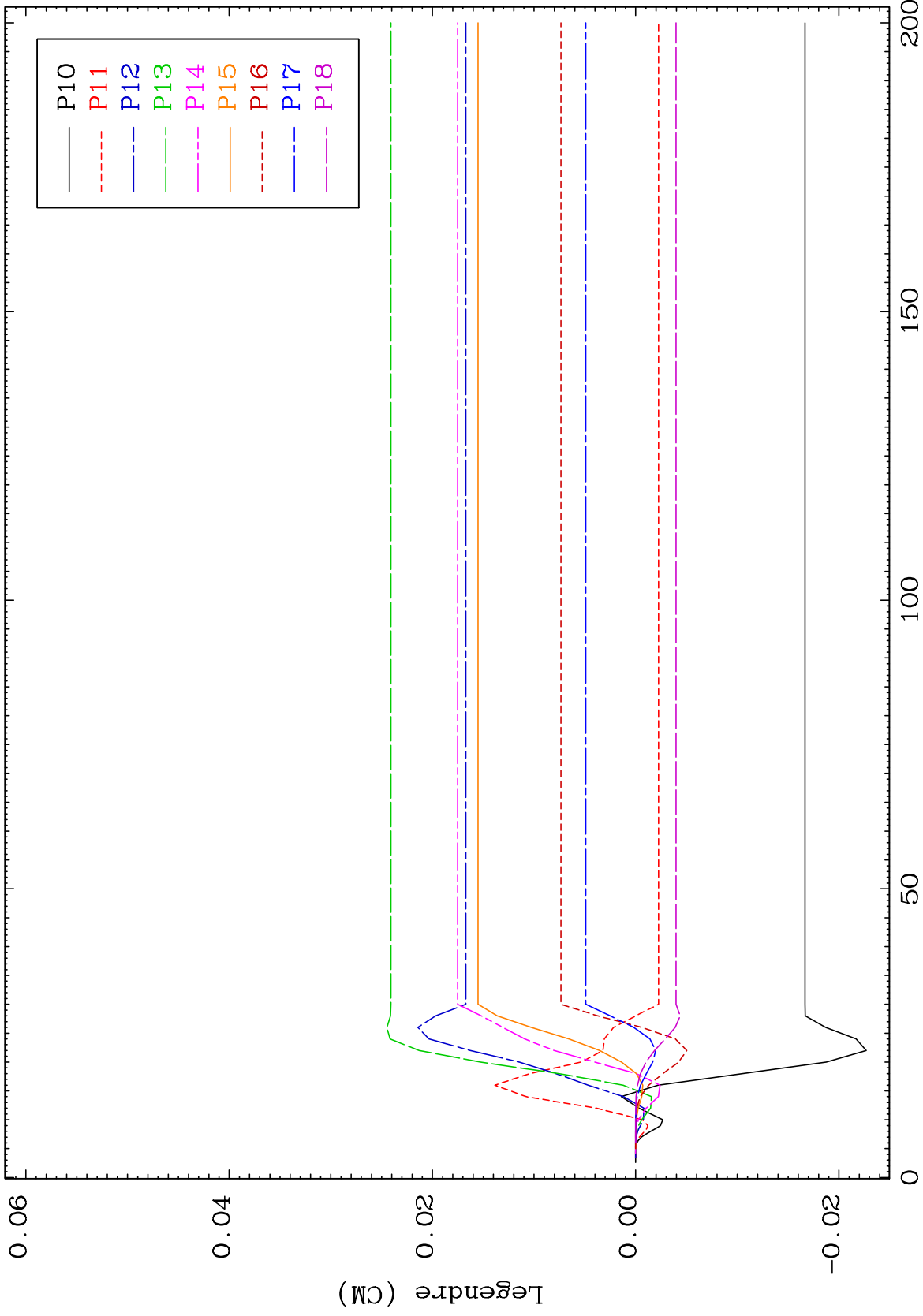
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



56

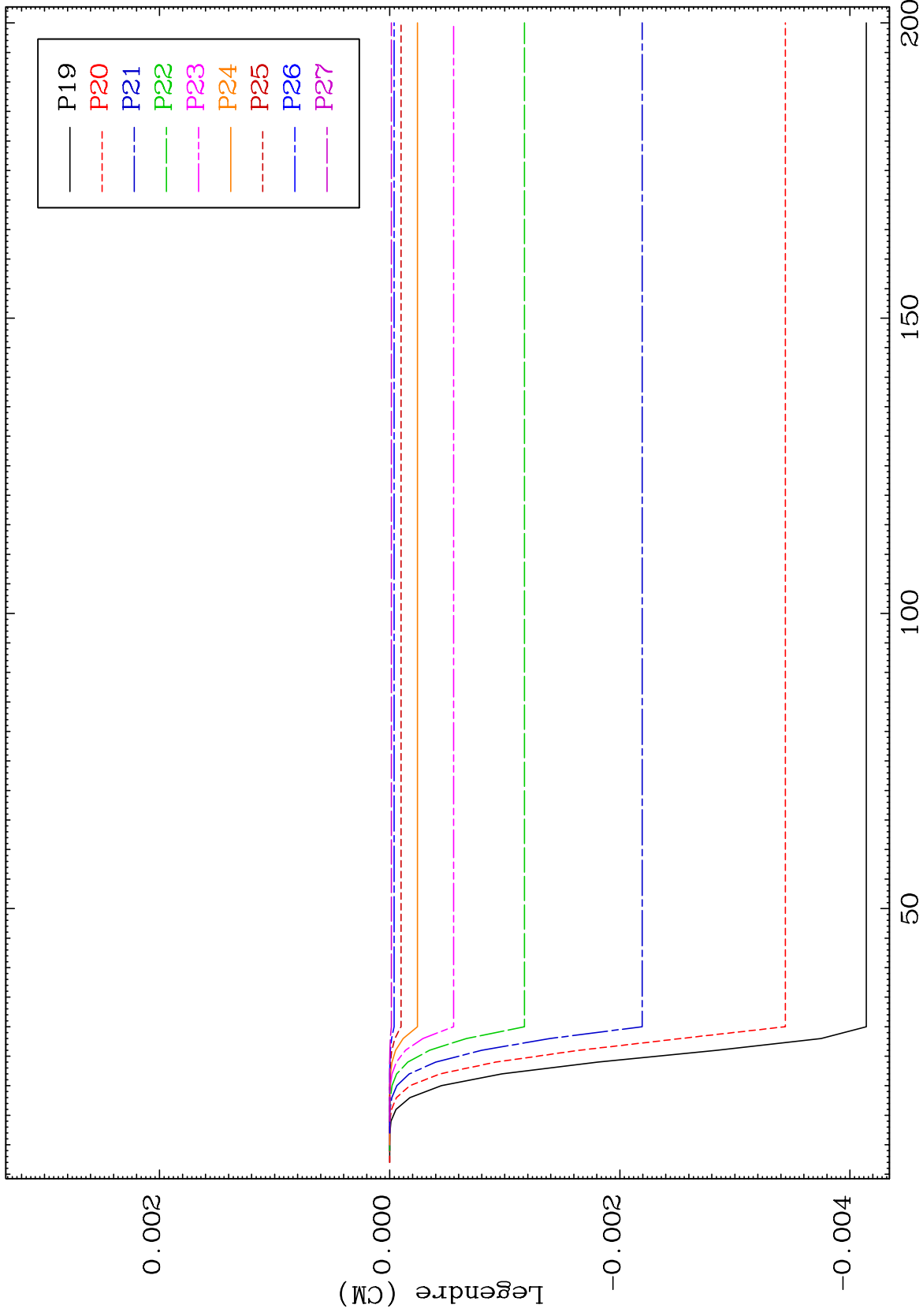
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



57

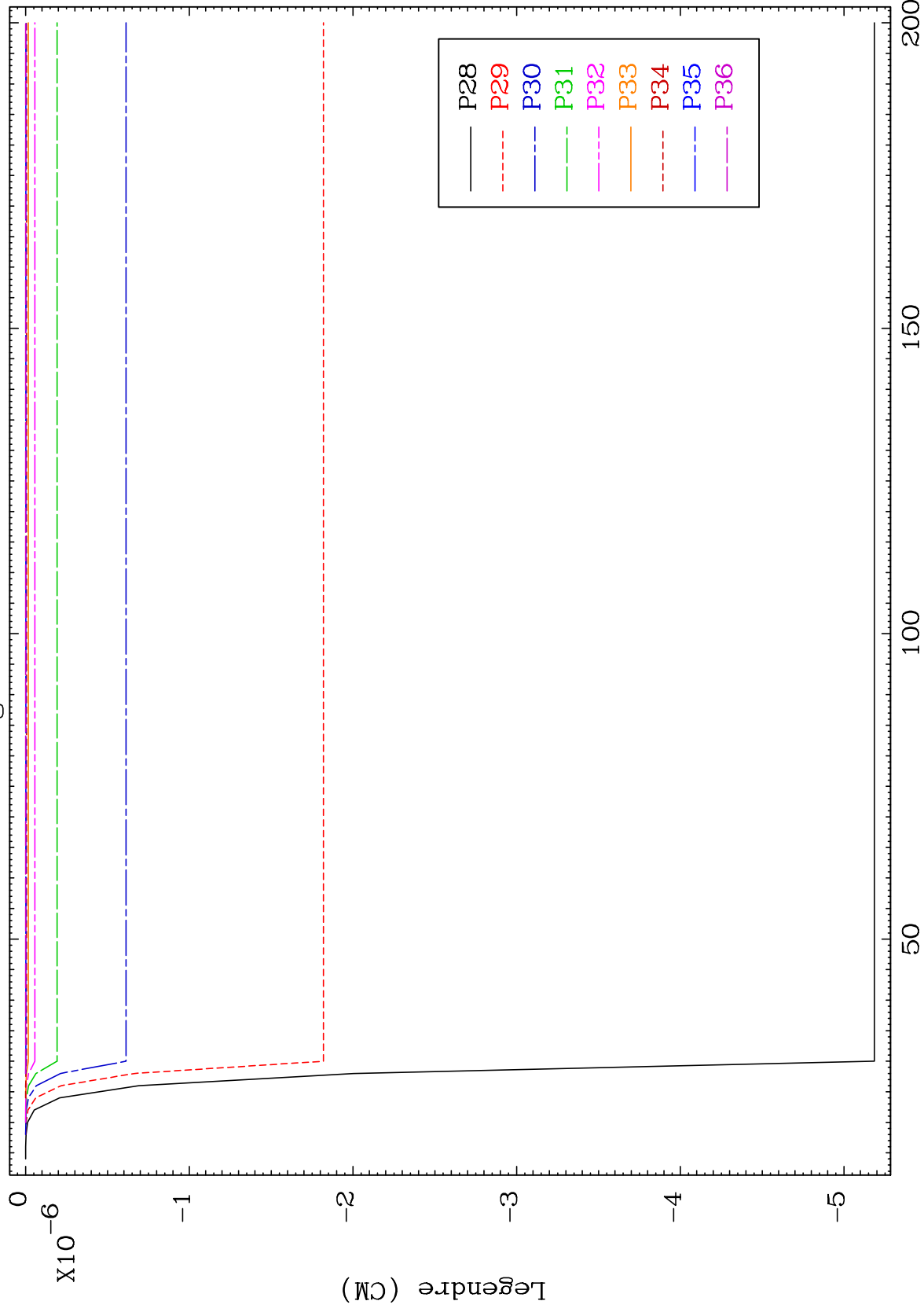
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



58

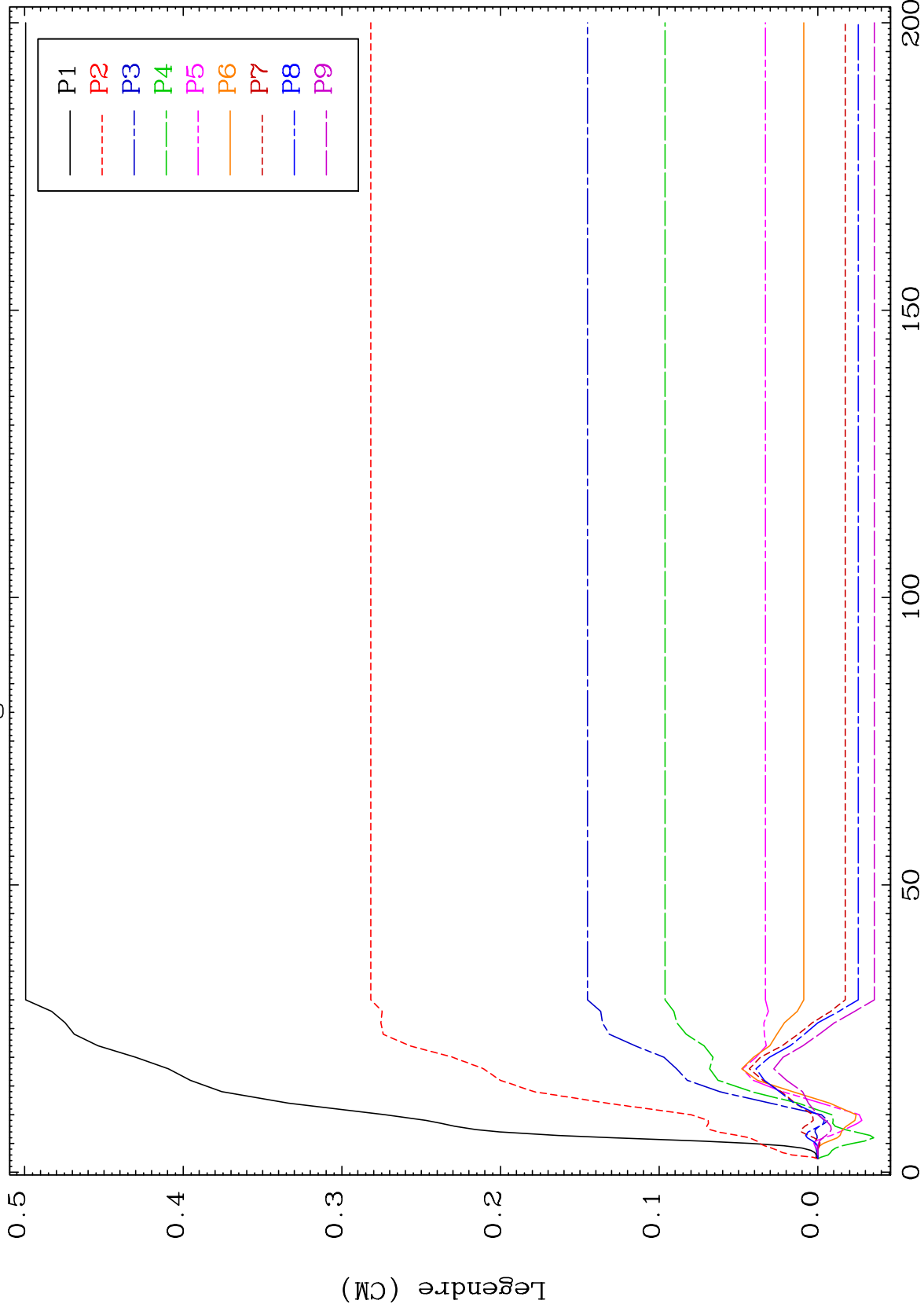
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



59

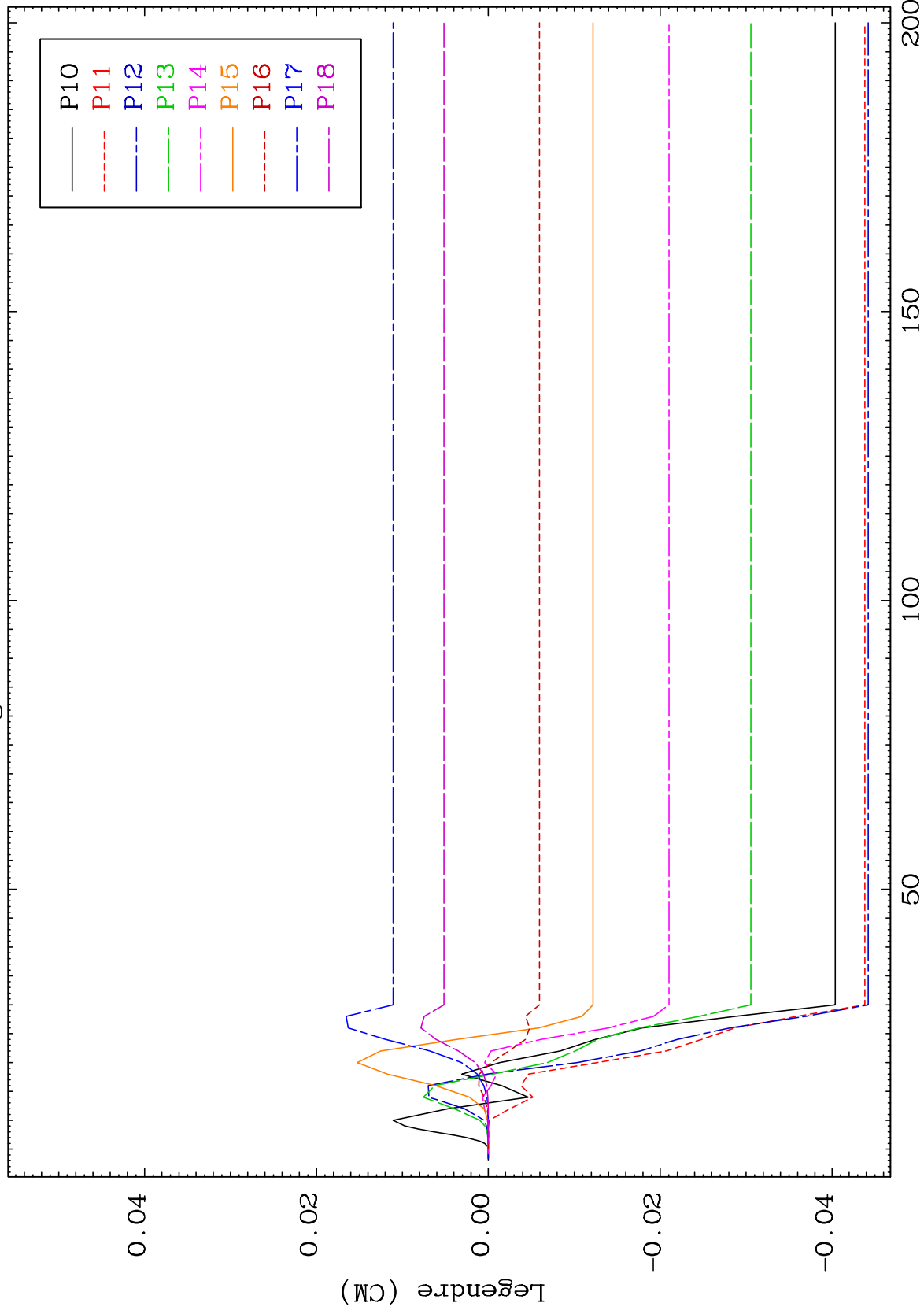
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



60

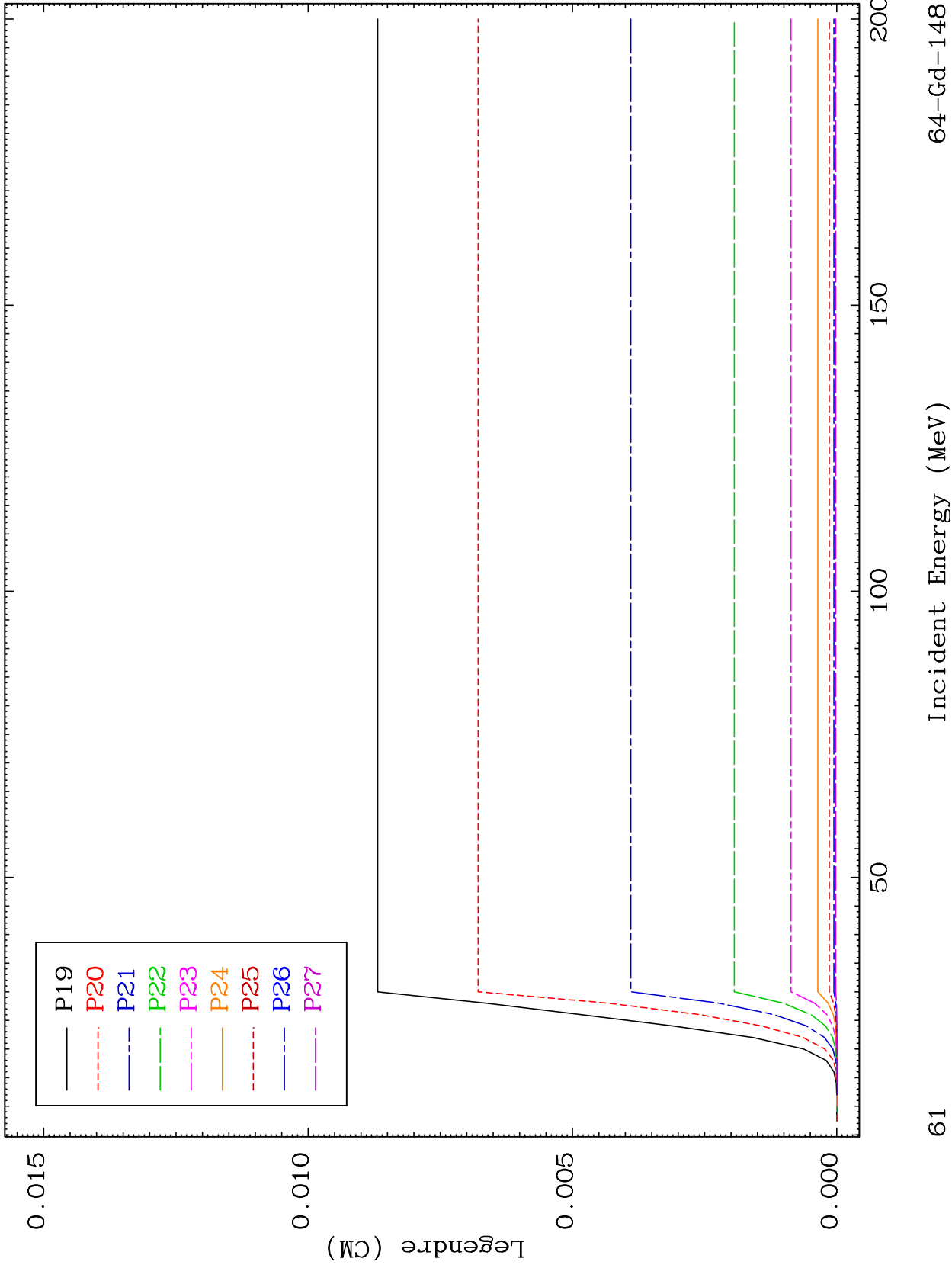
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



61

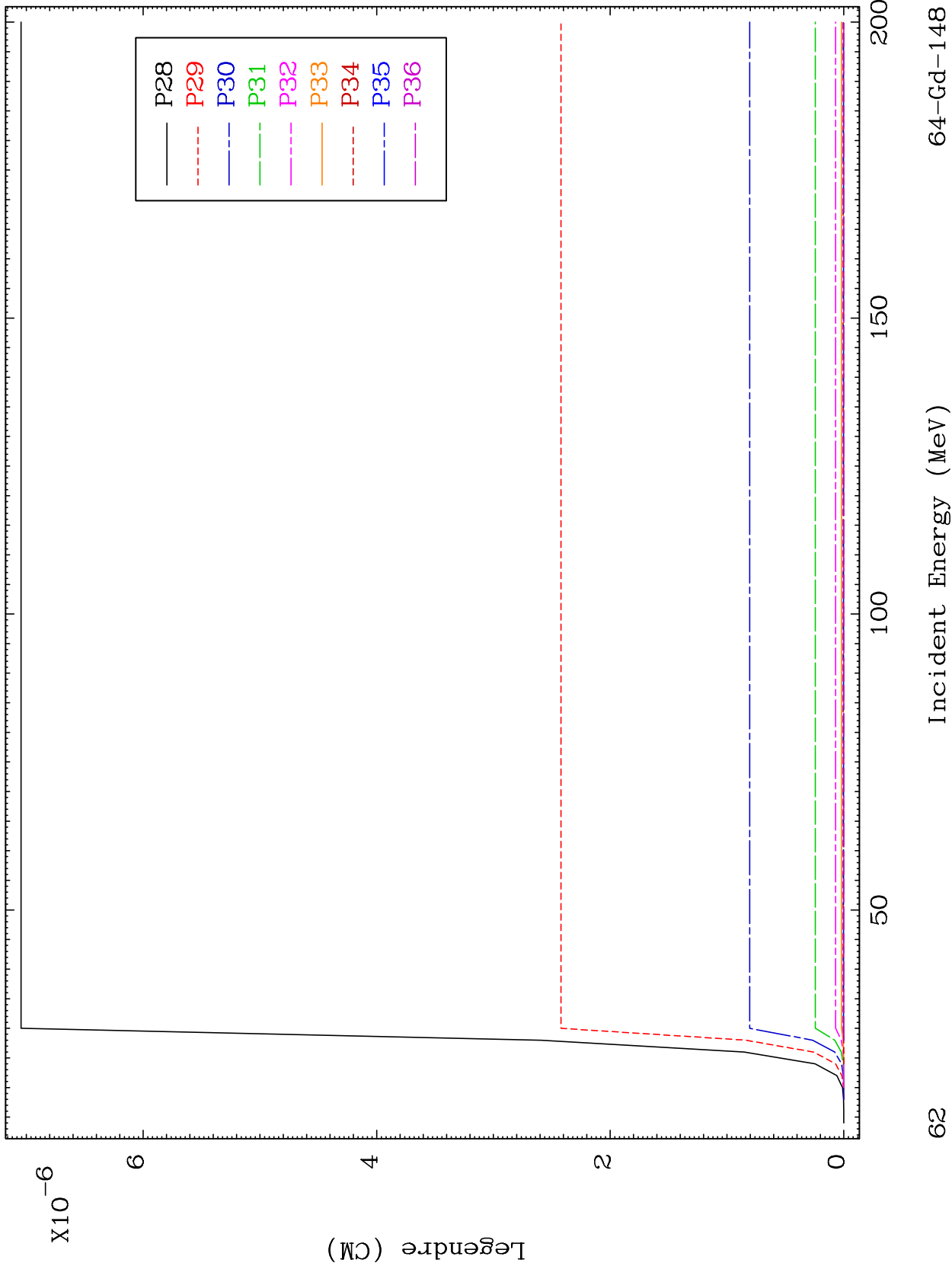
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

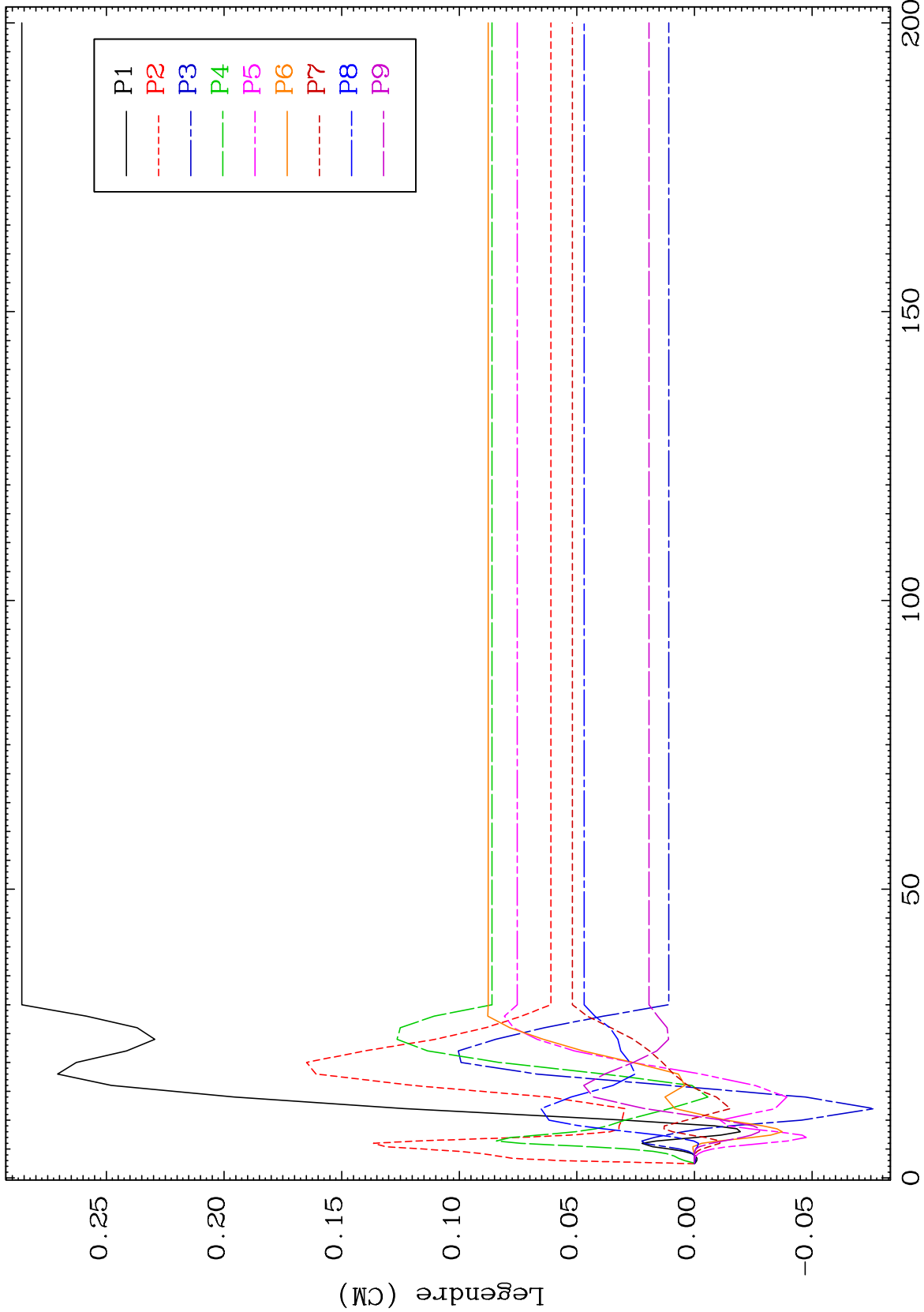
64-Gd-148



MAT 6413

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

64-Gd-148



63

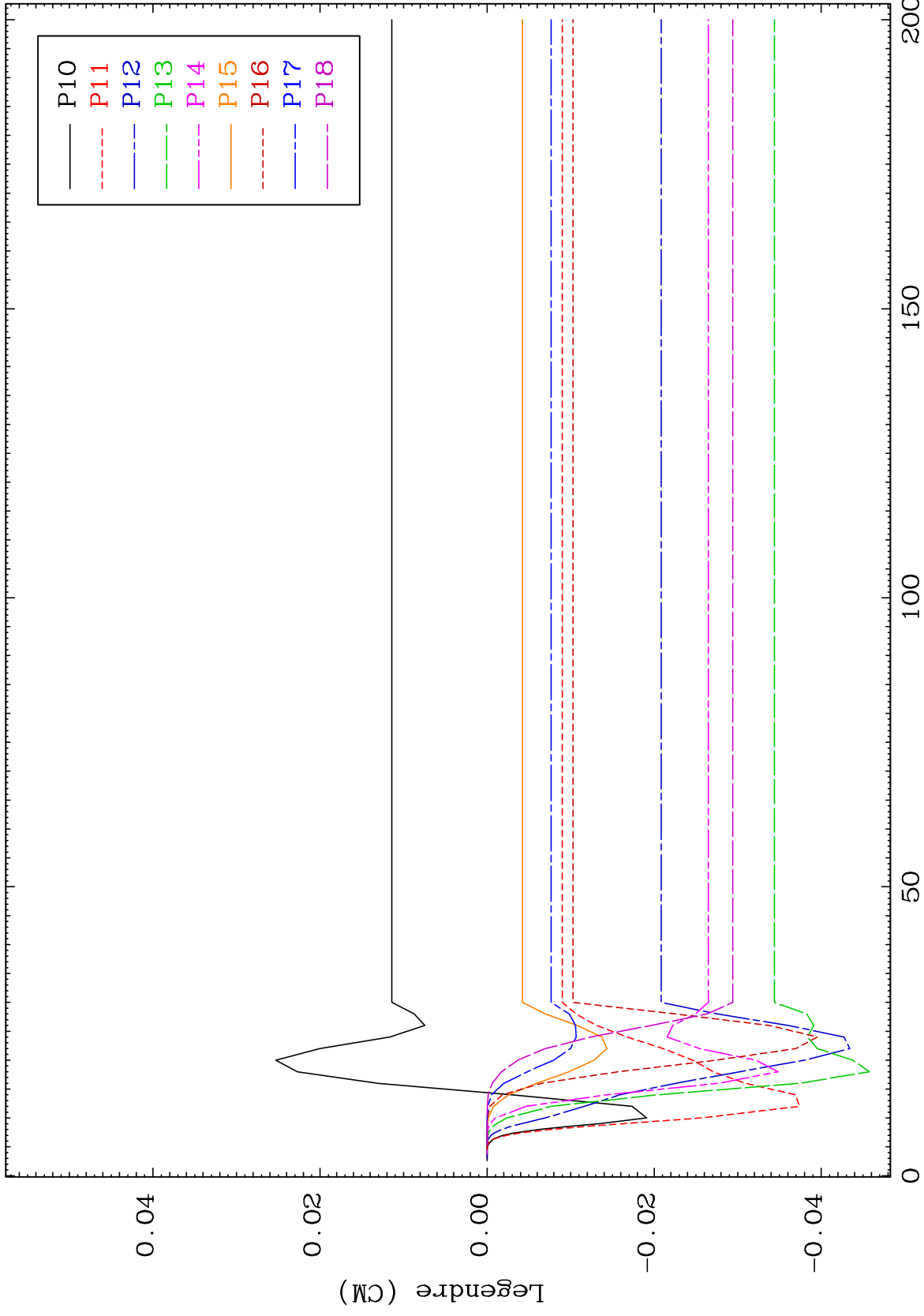
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



64

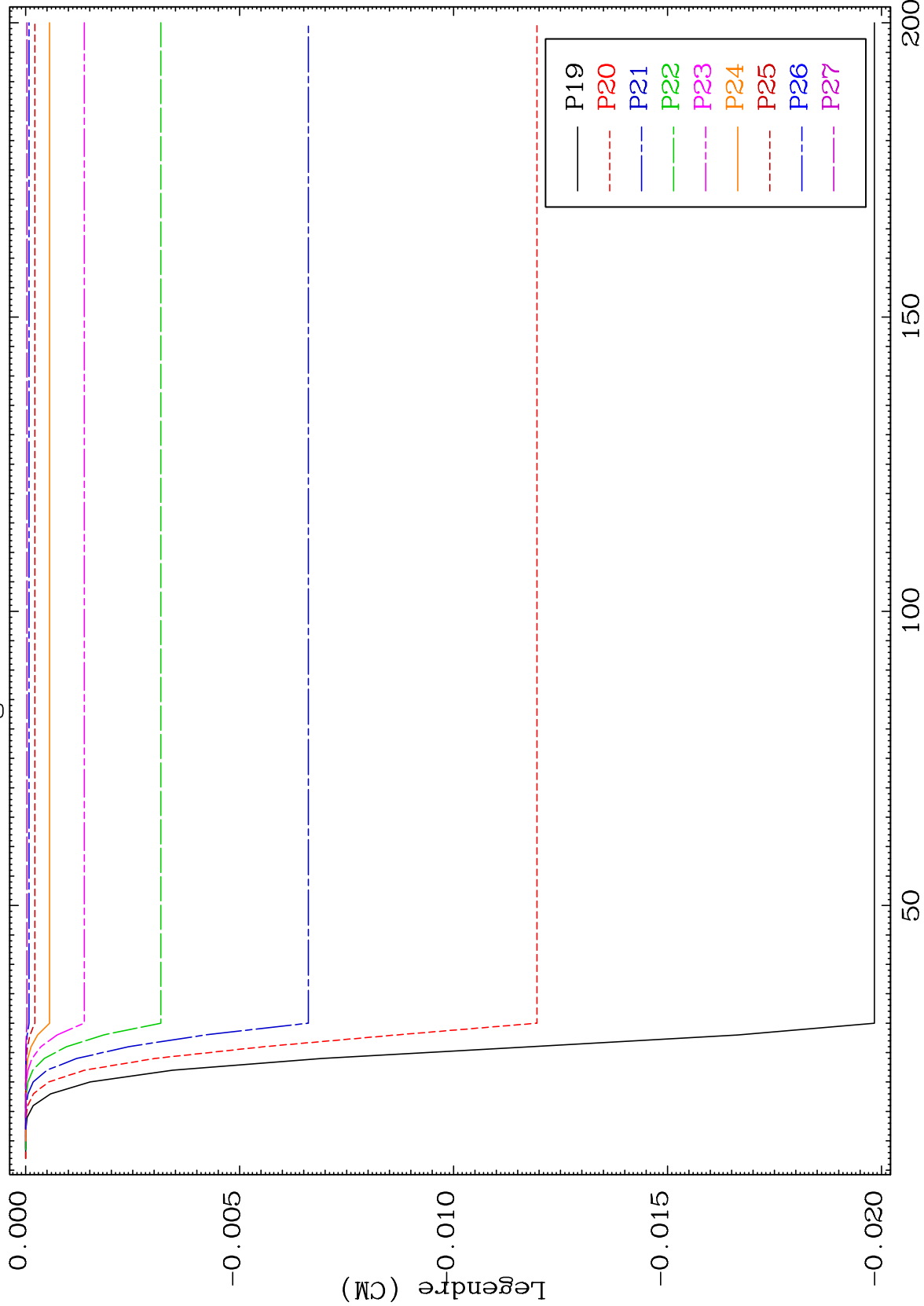
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



64-Gd-148

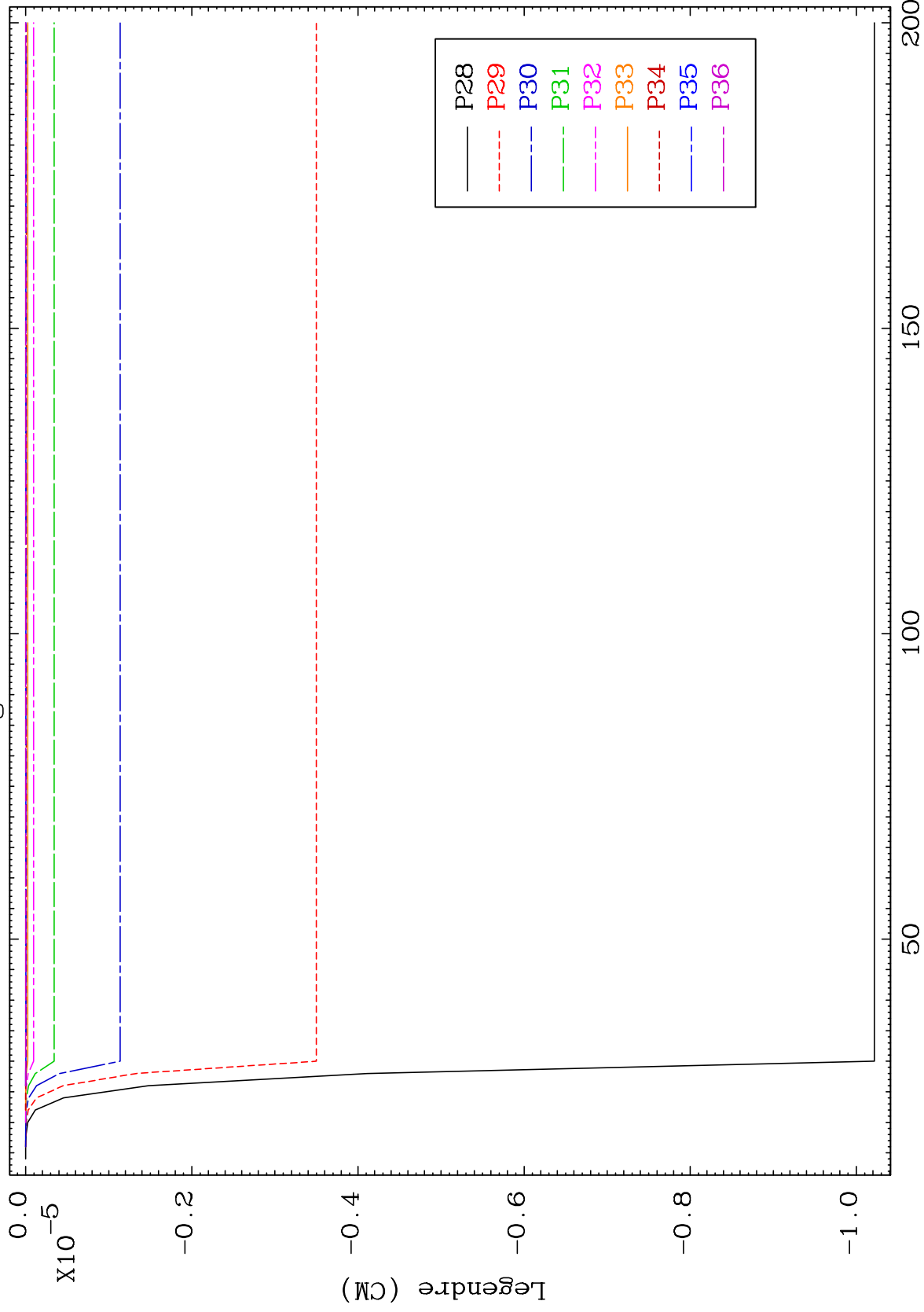
Incident Energy (MeV)

65

MAT 6413

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

64-Gd-148



66

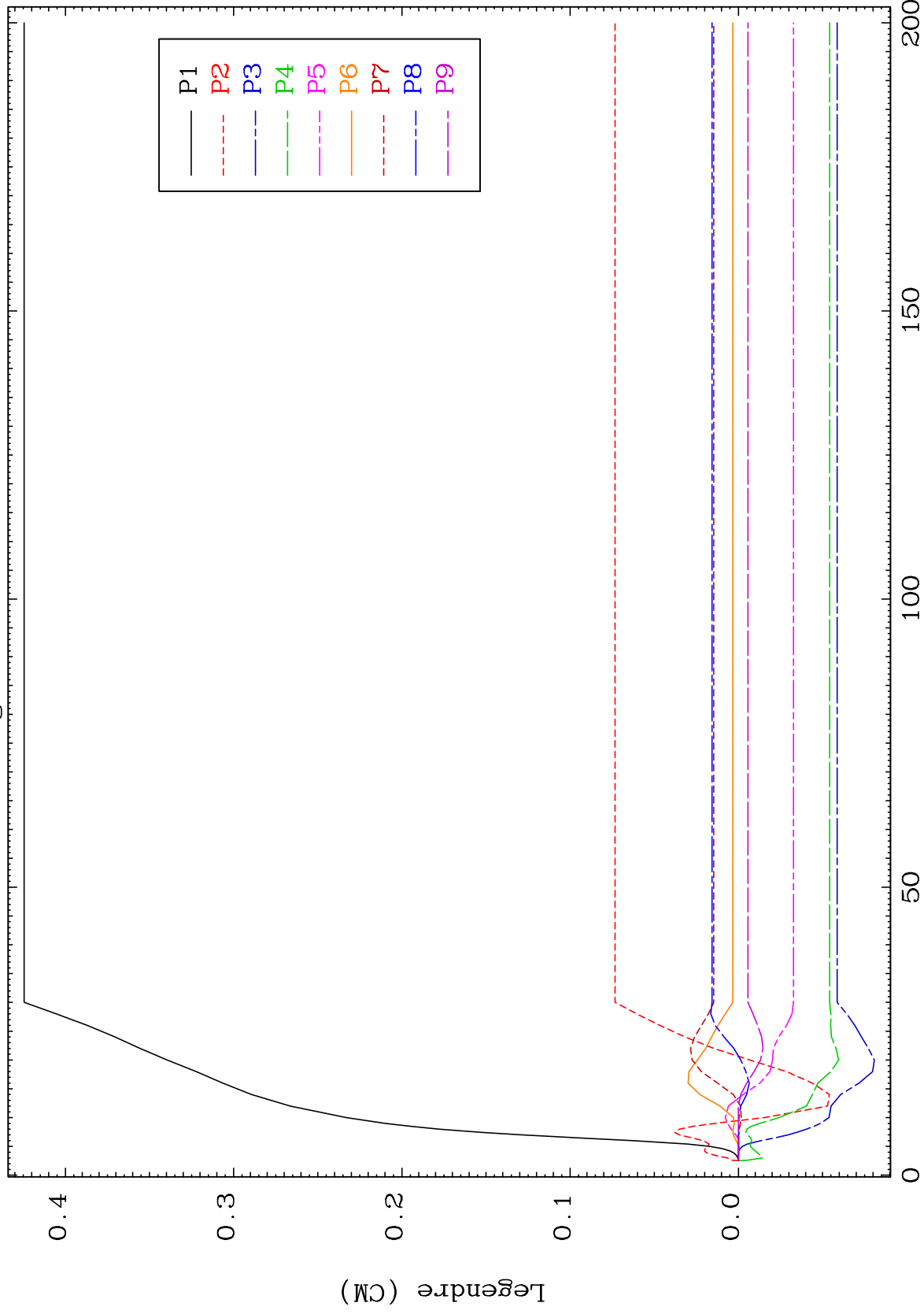
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

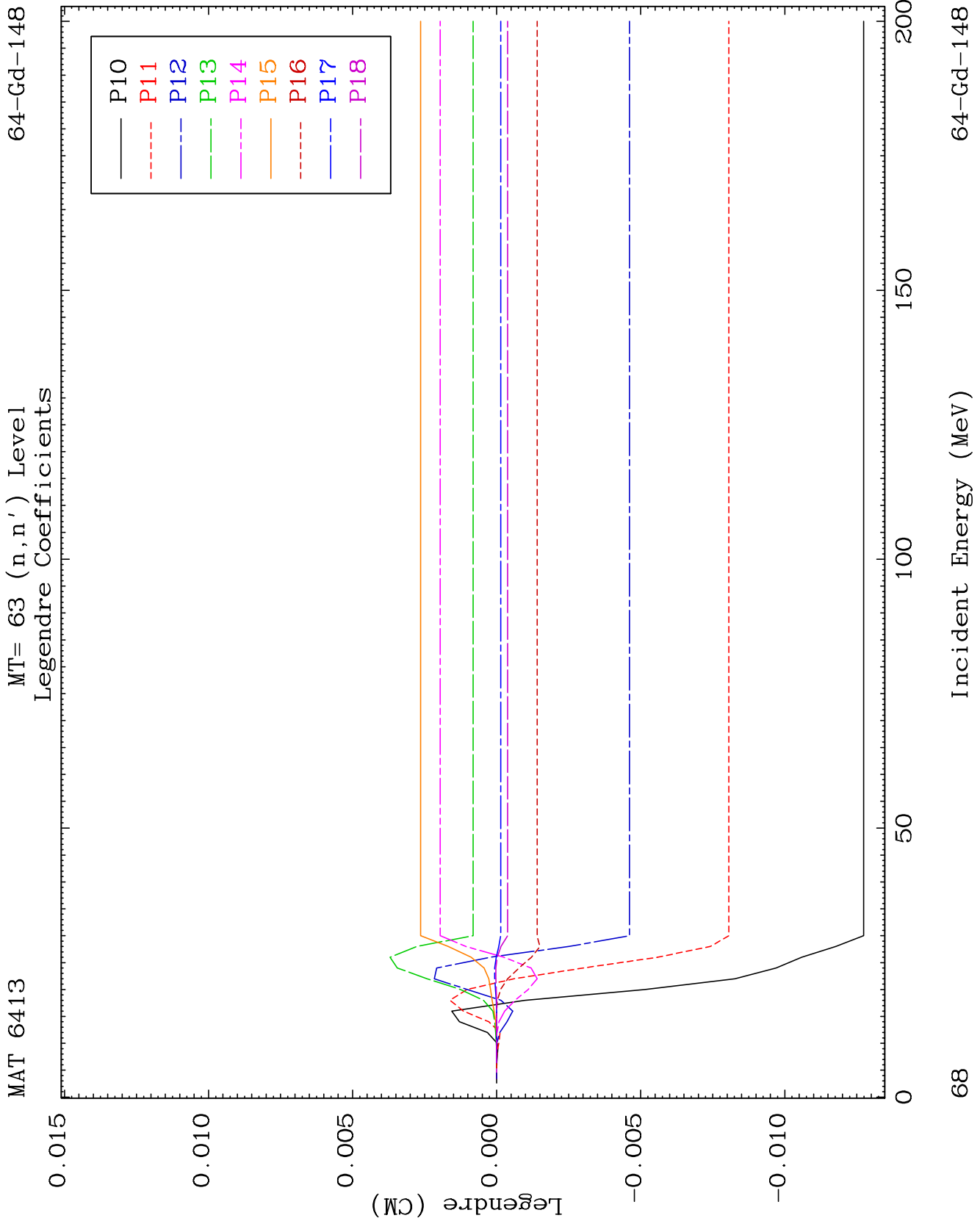
64-Gd-148



67

Incident Energy (MeV)

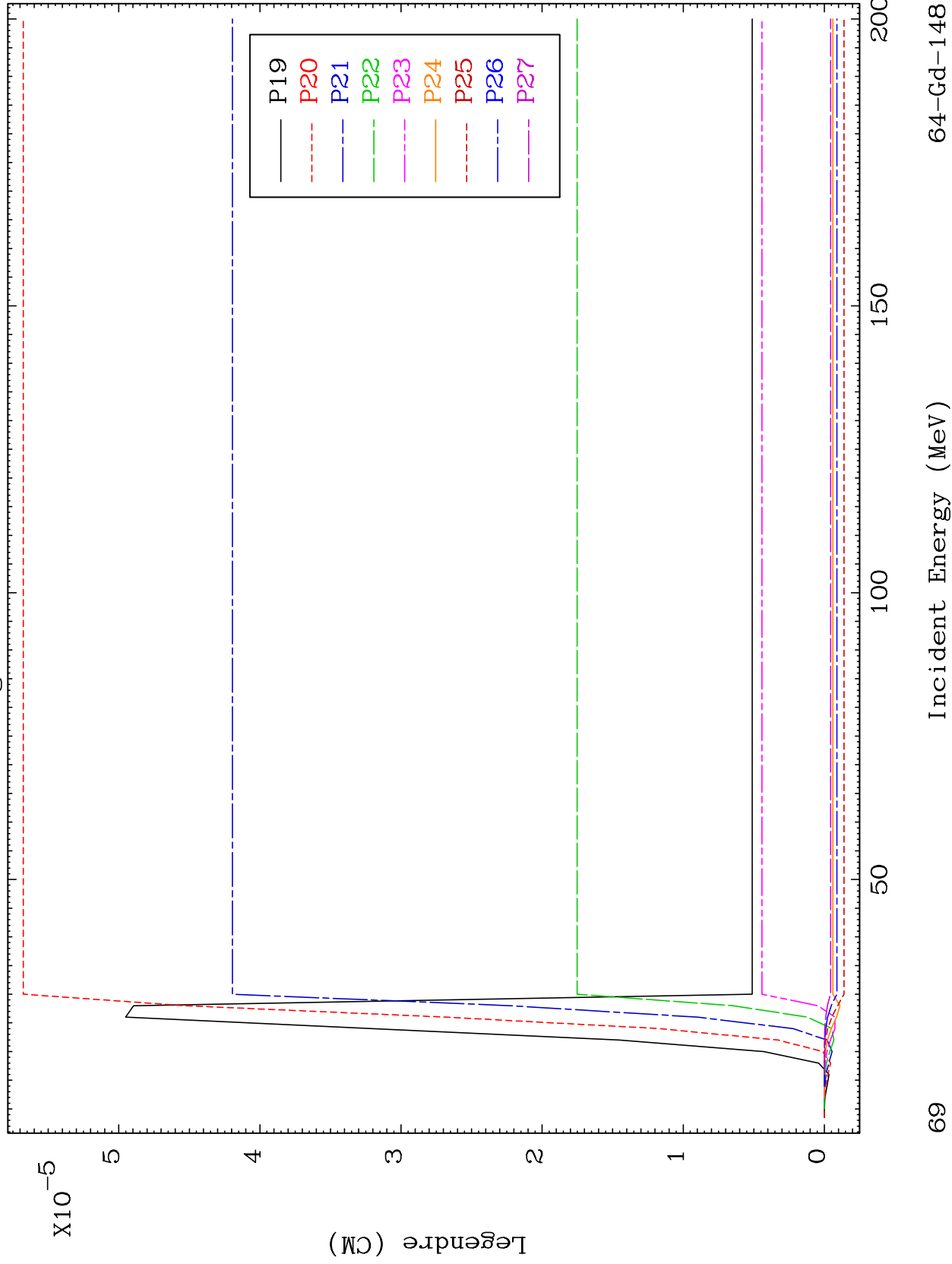
64-Gd-148



MAT 6413

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

64-Gd-148

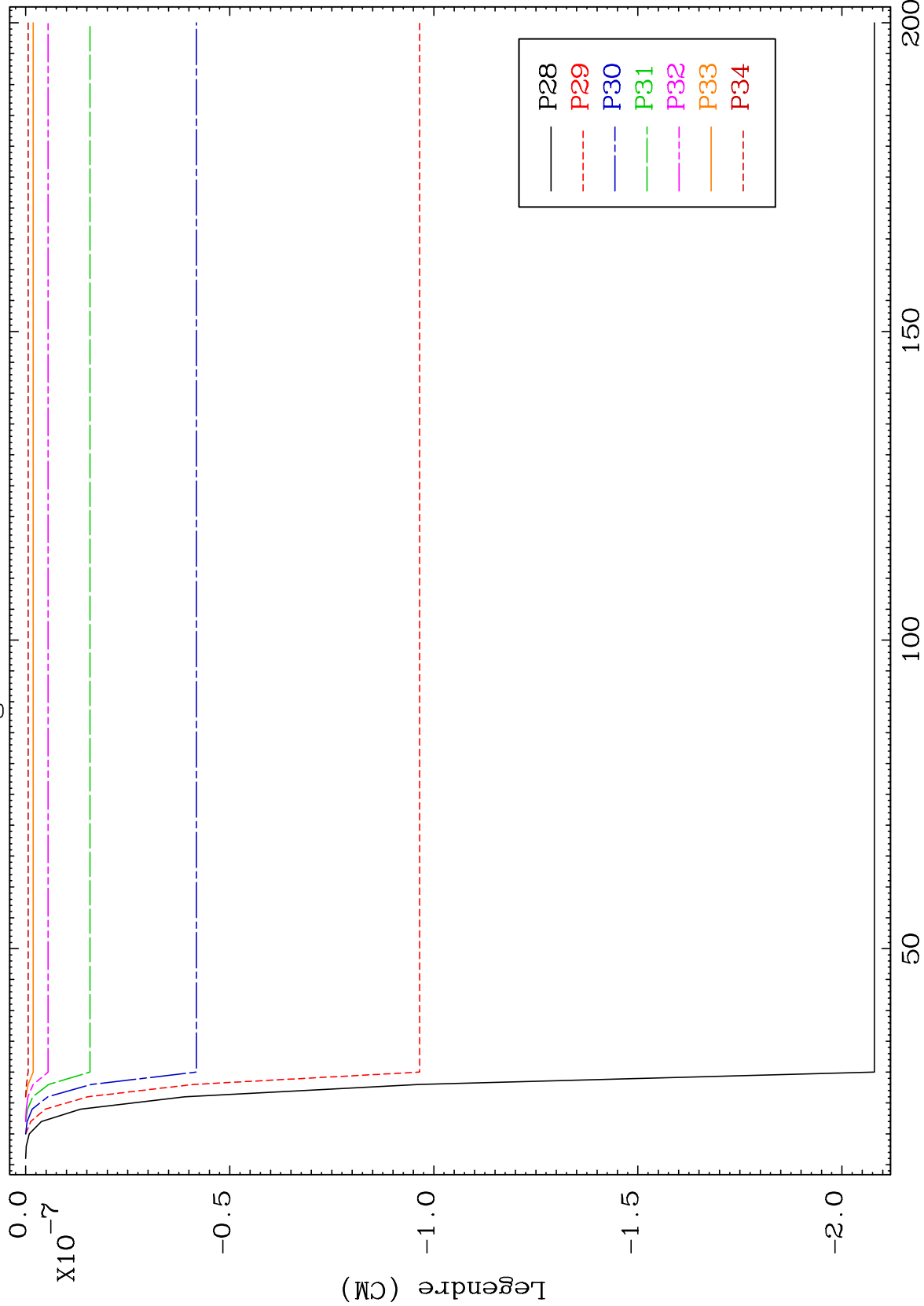


MAT 6413

MT= 63 (n,n') Level

64-Gd-148

Legendre Coefficients



64-Gd-148

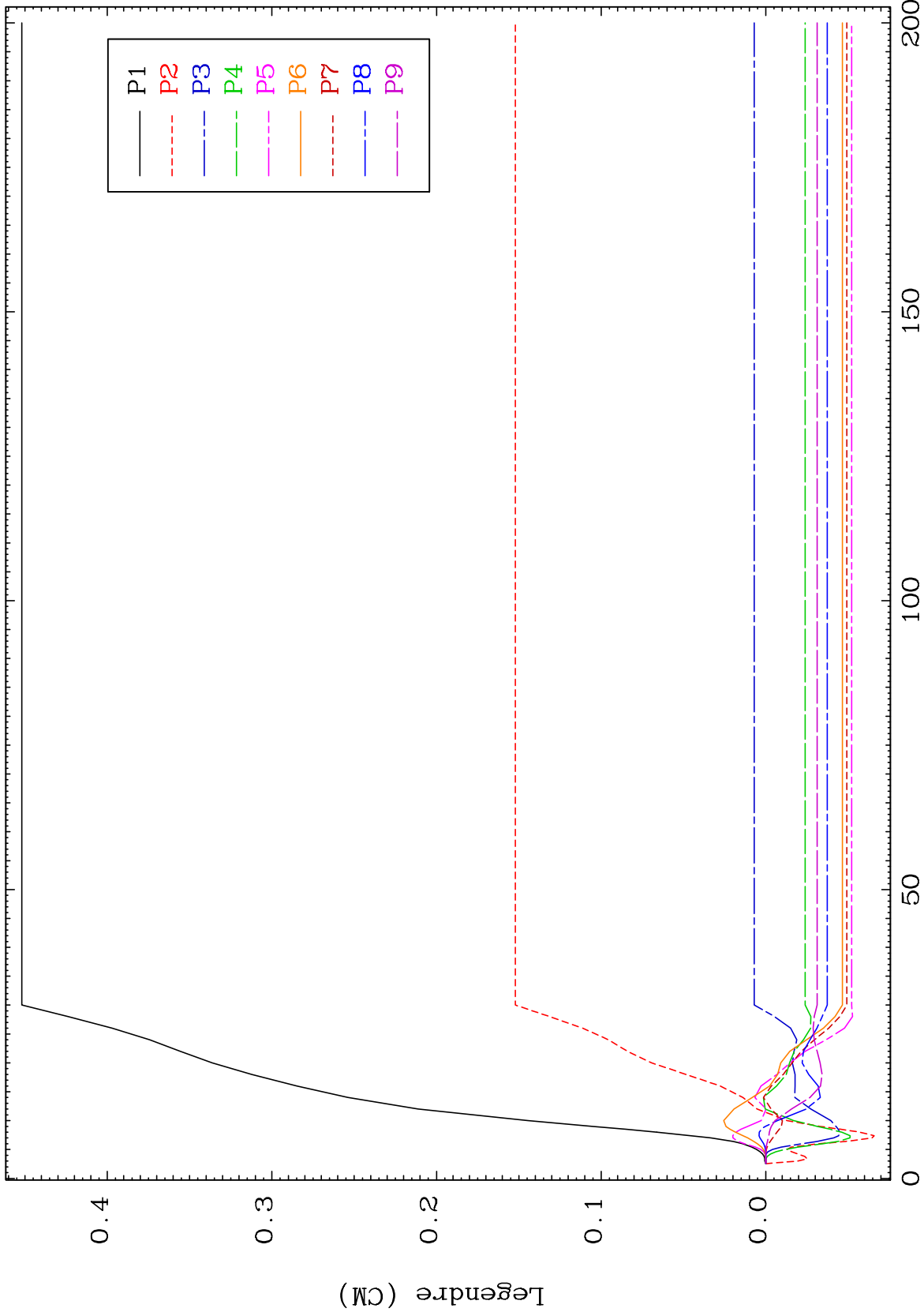
Incident Energy (MeV)

70

MAT 6413

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

64-Gd-148



71

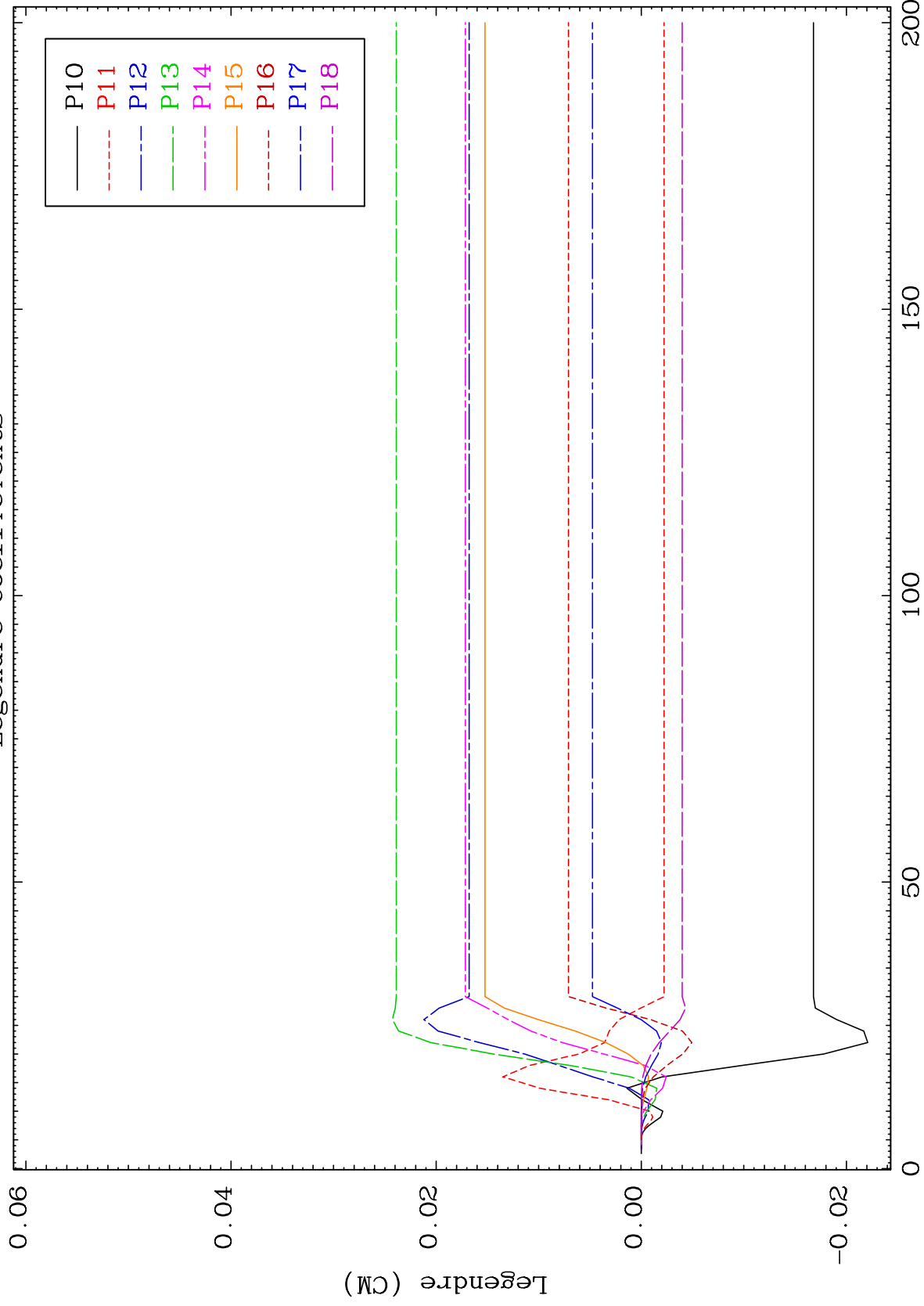
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



72

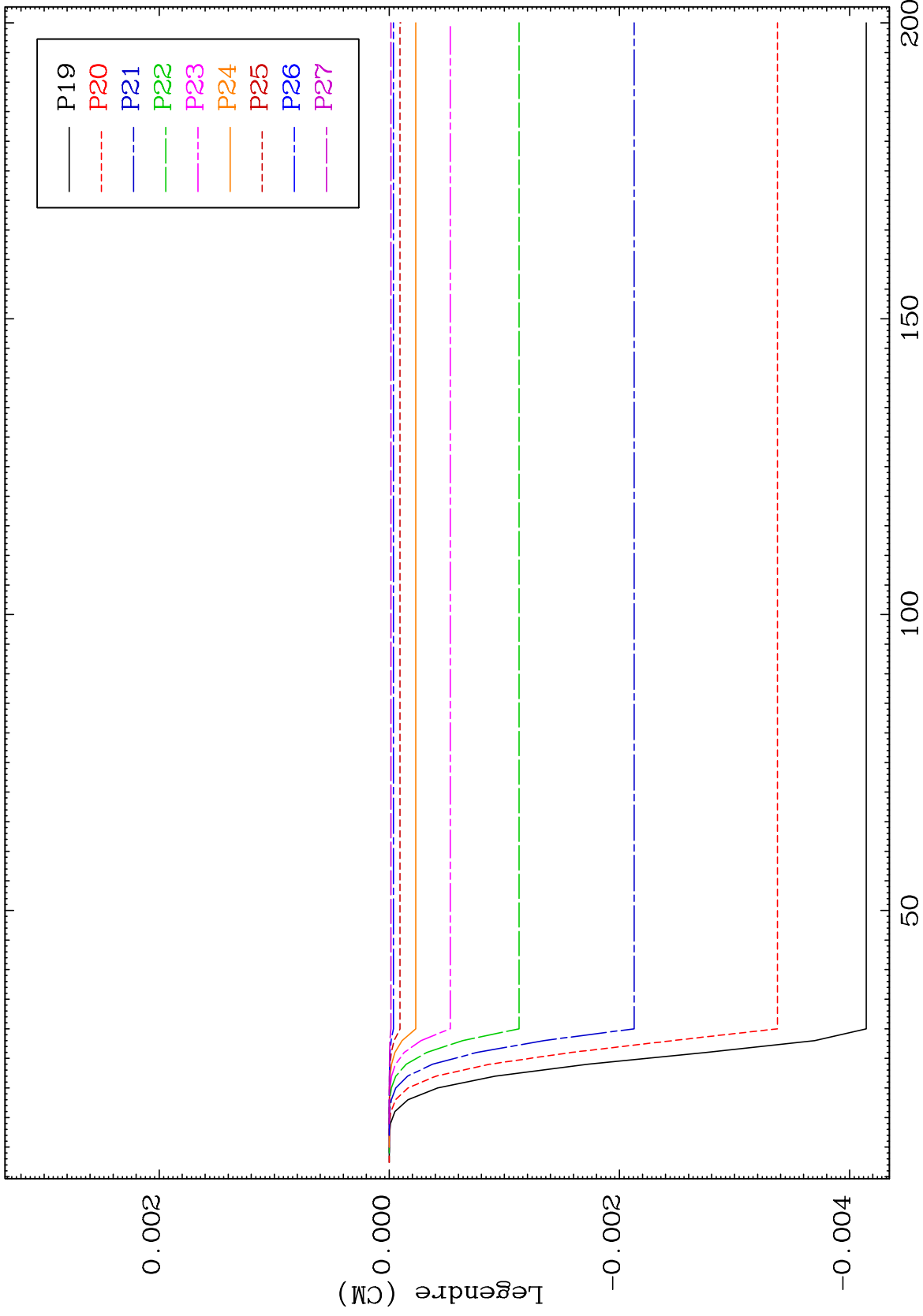
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



73

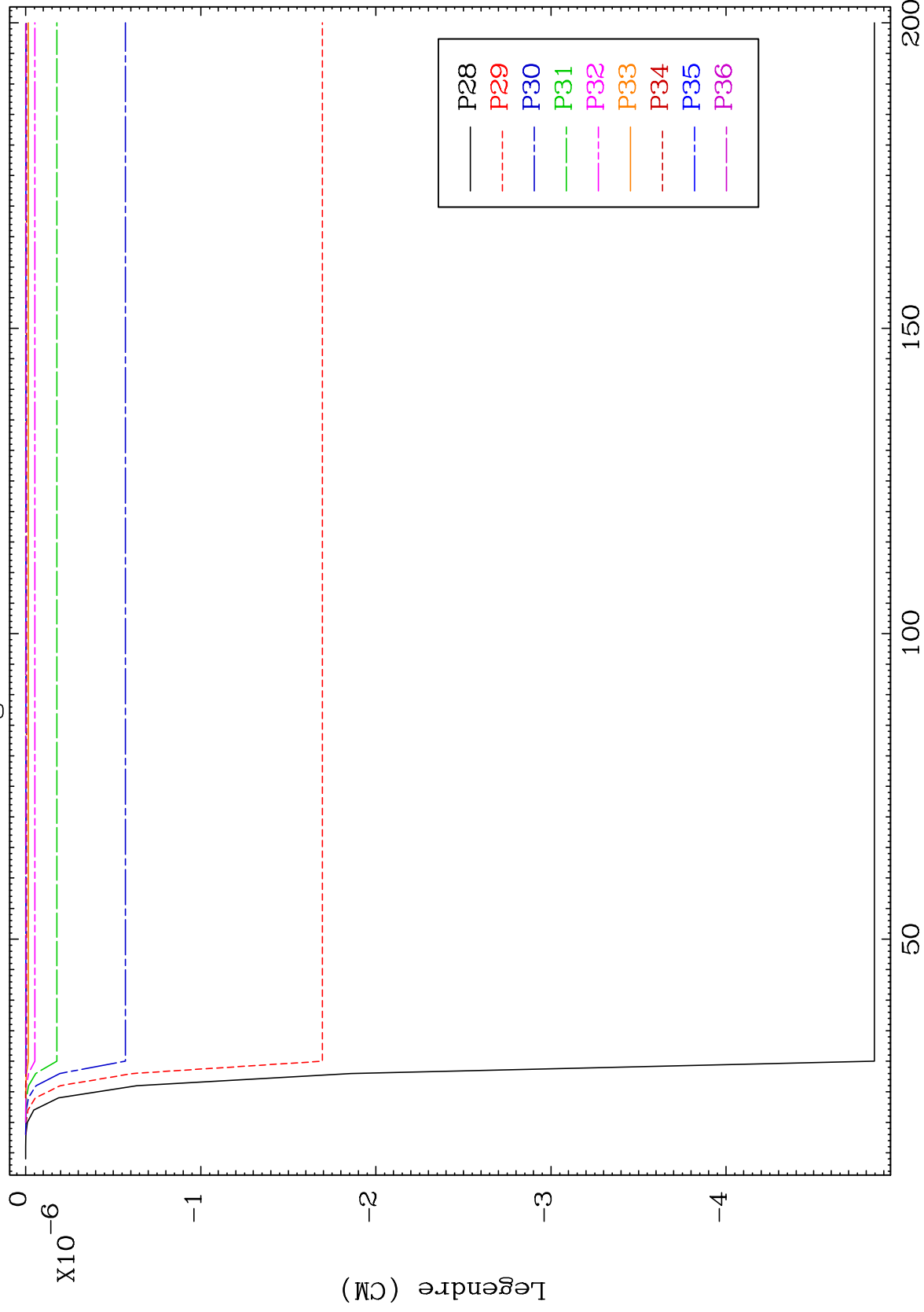
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



74

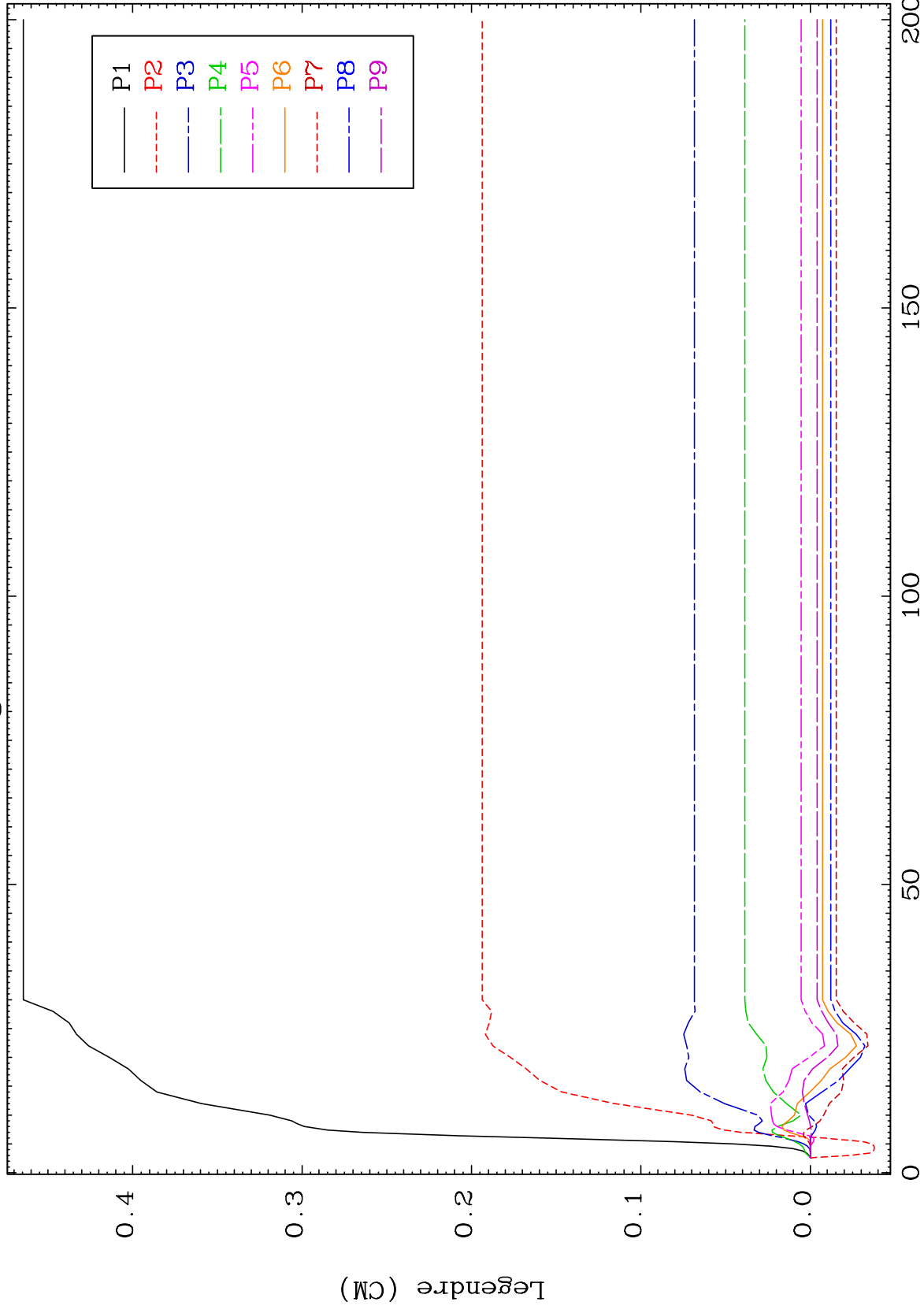
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



64-Gd-148

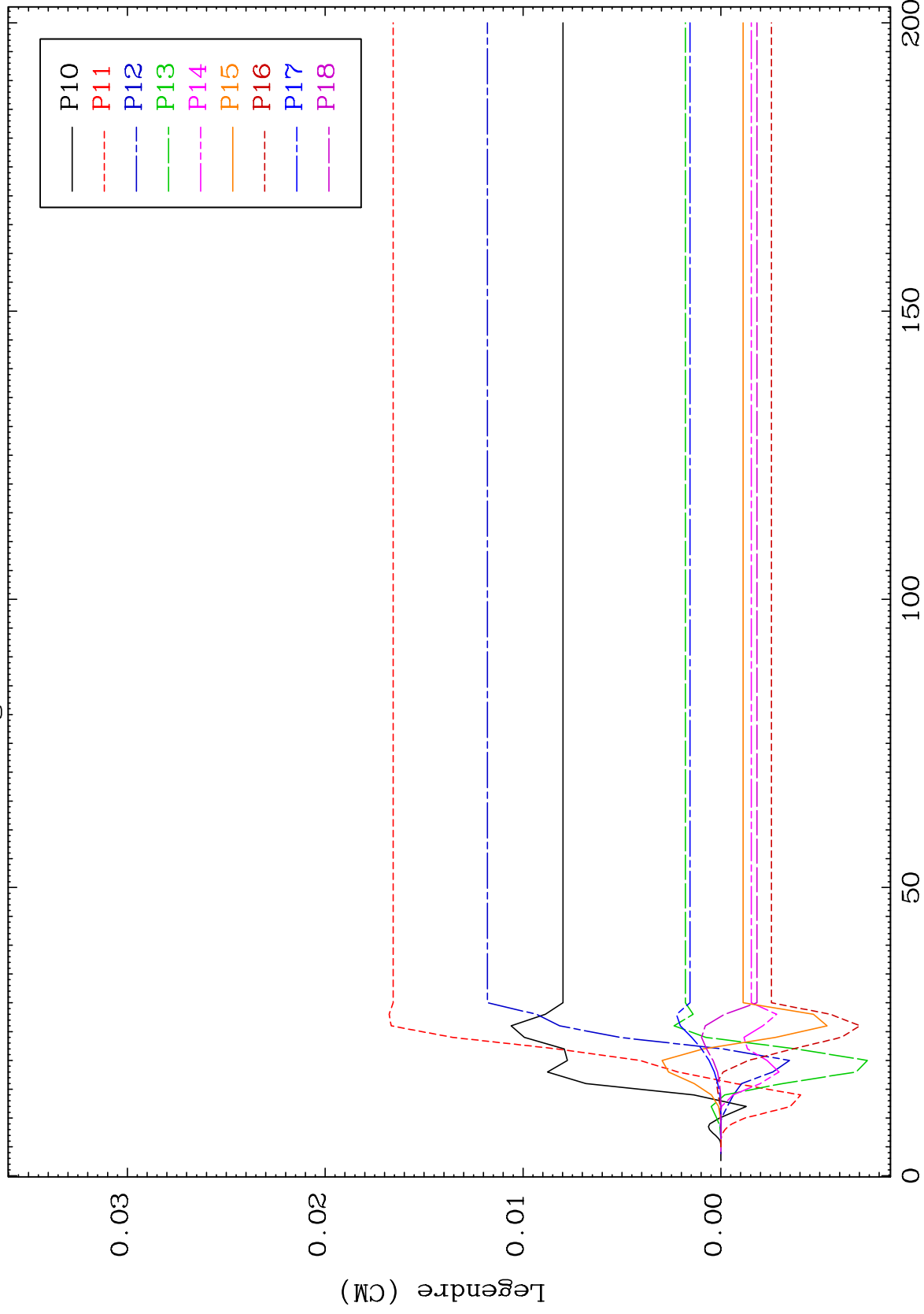
Incident Energy (MeV)

75

MAT 6413

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

64-Gd-148



76

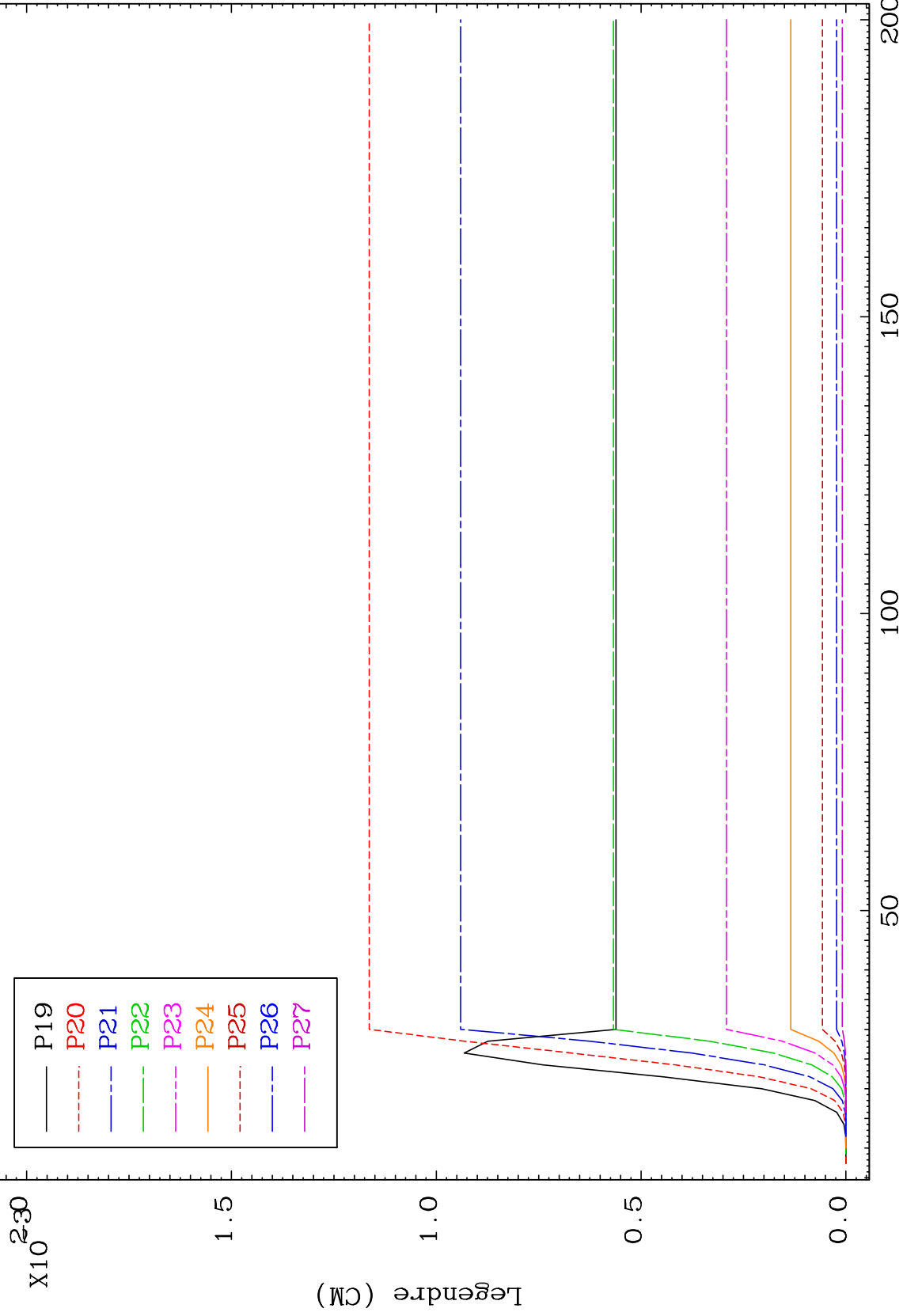
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



77

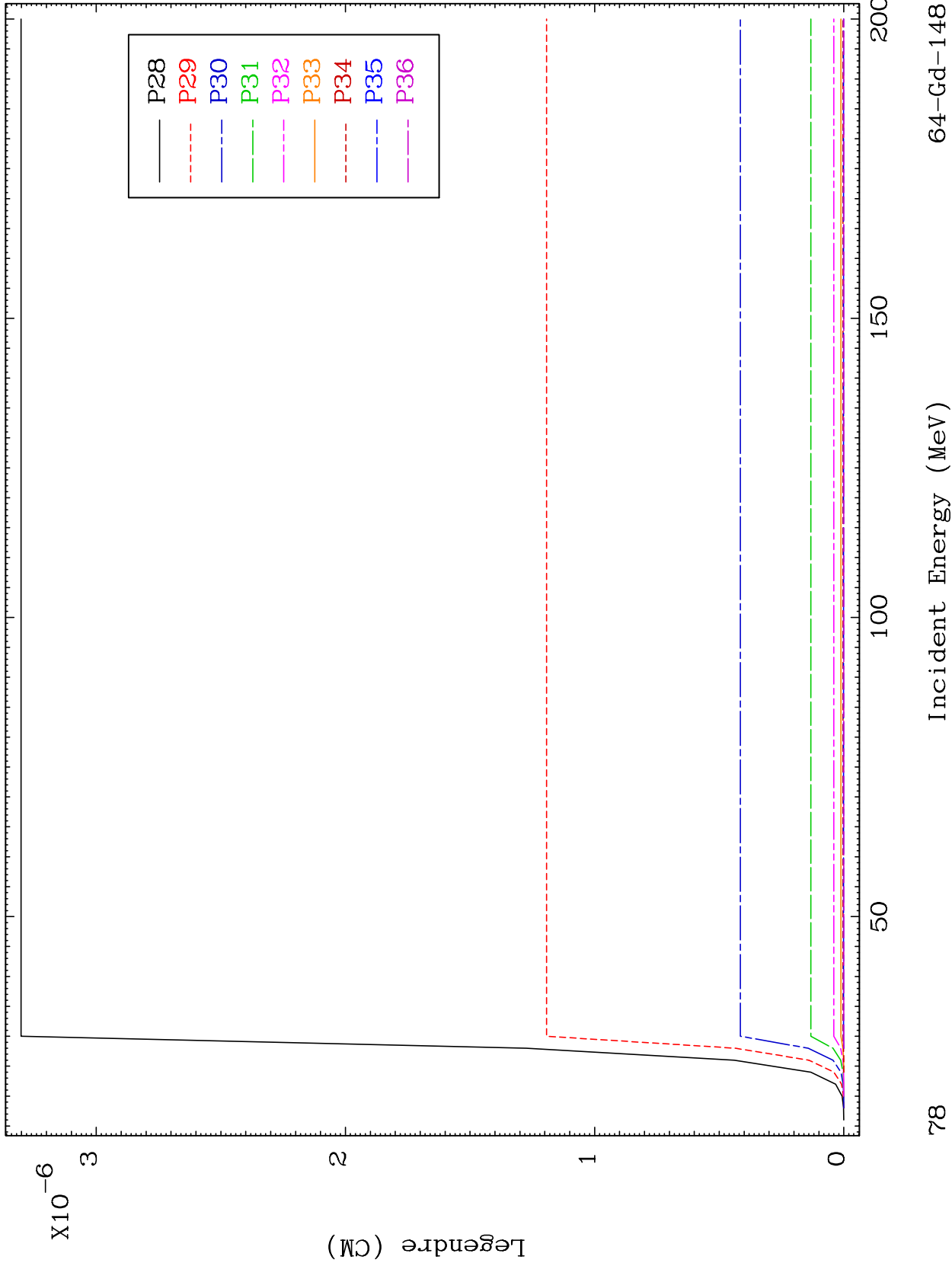
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



78

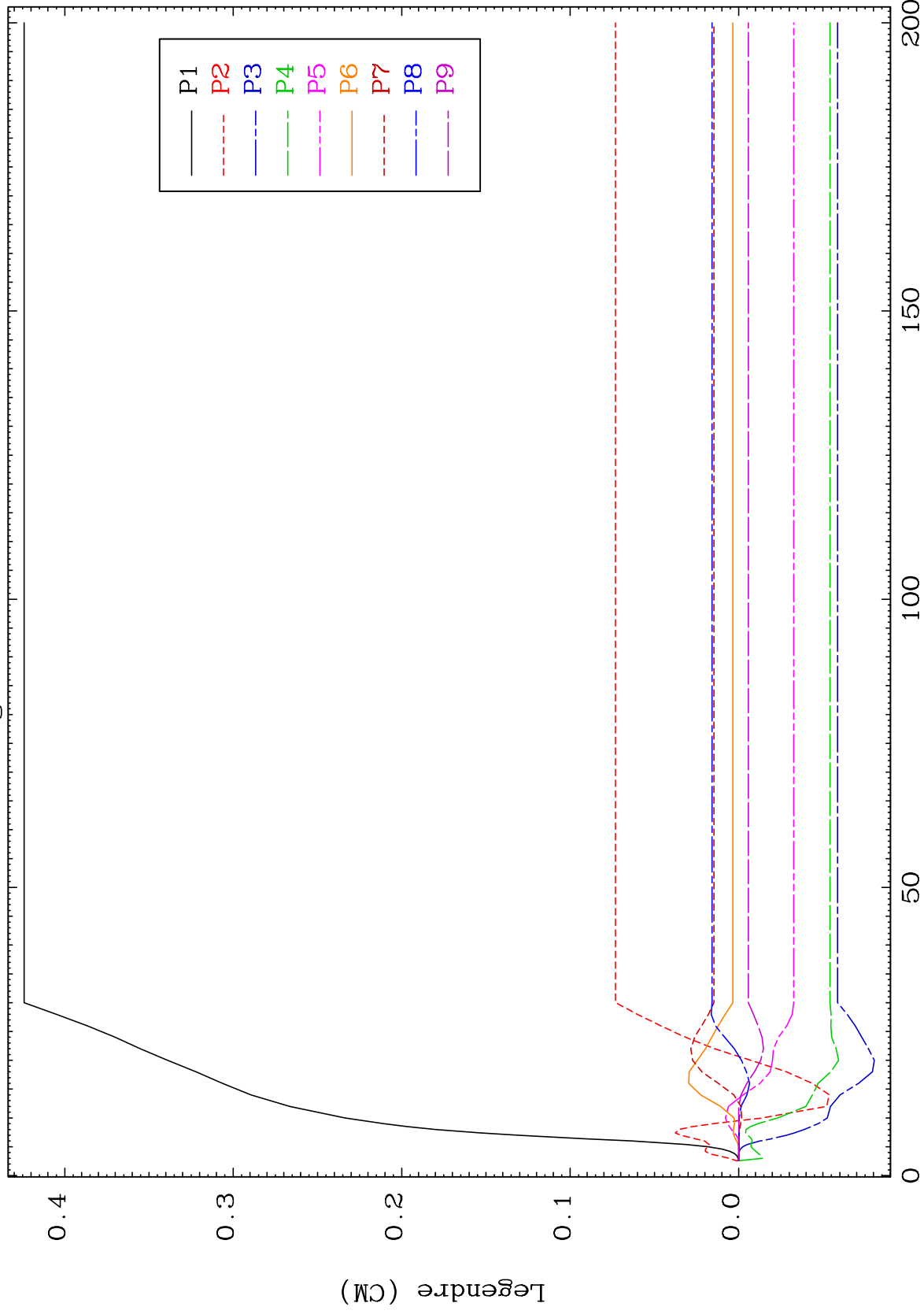
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

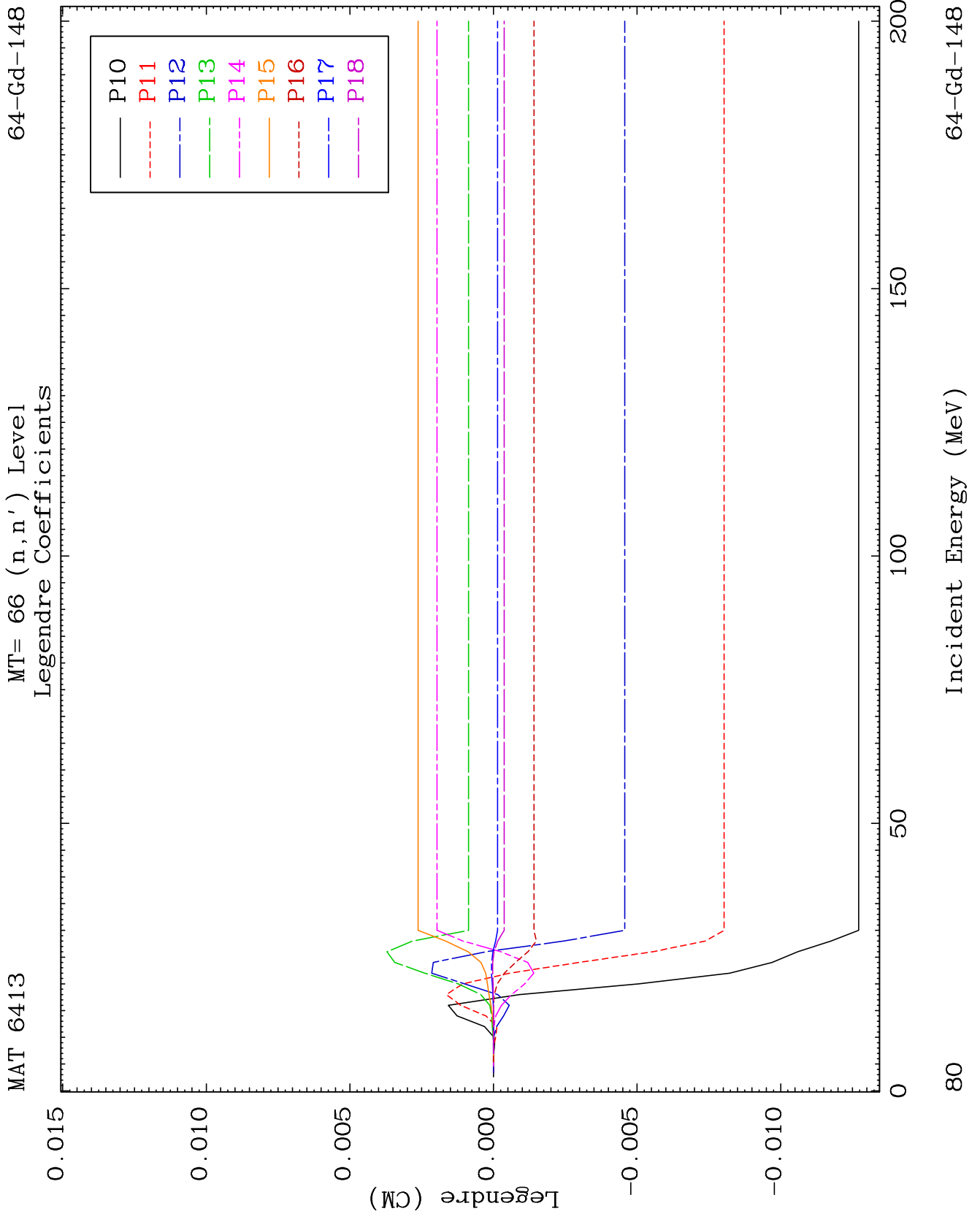
64-Gd-148



79

Incident Energy (MeV)

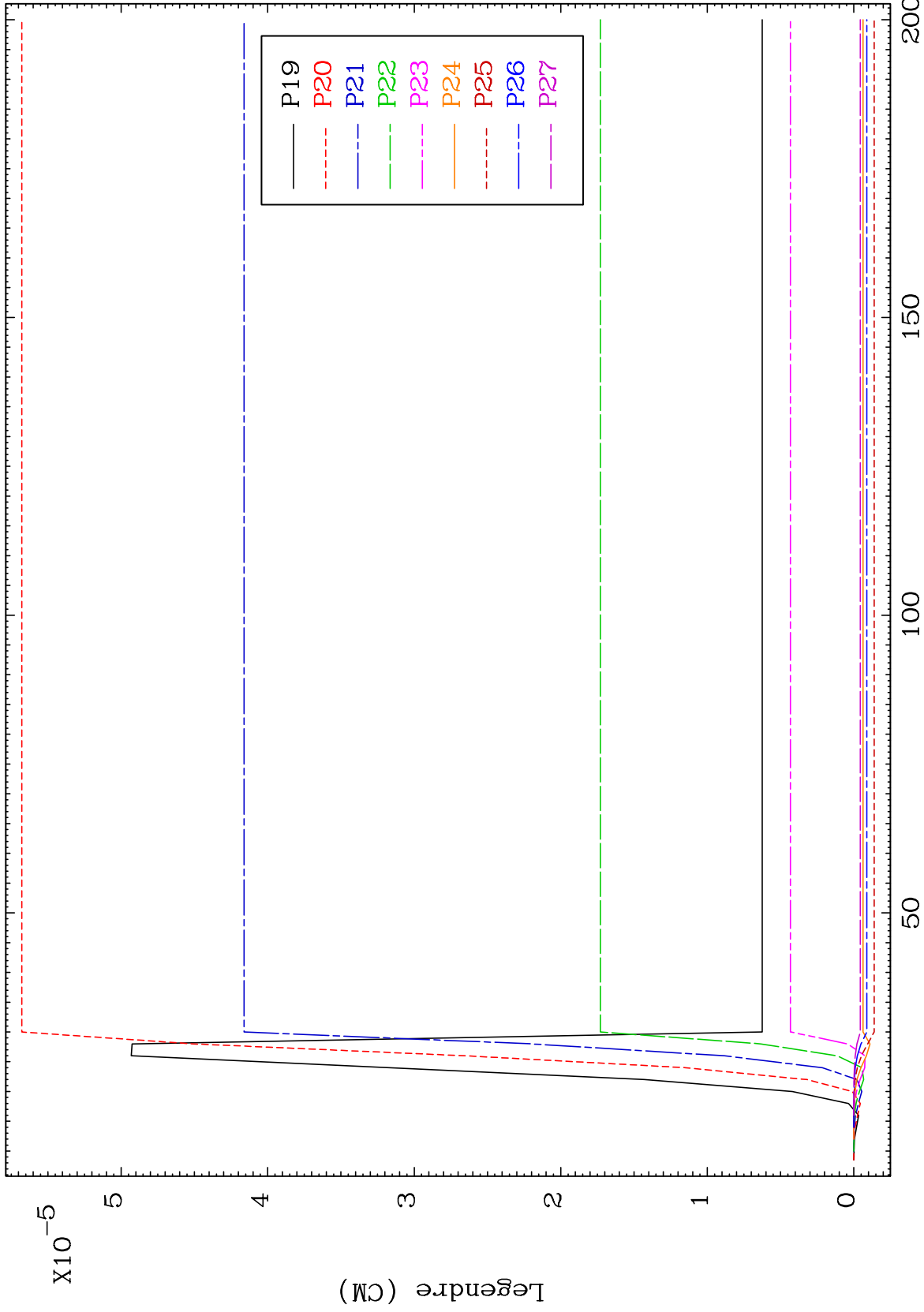
64-Gd-148



MAT 6413

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

64-Gd-148



81

Incident Energy (MeV)

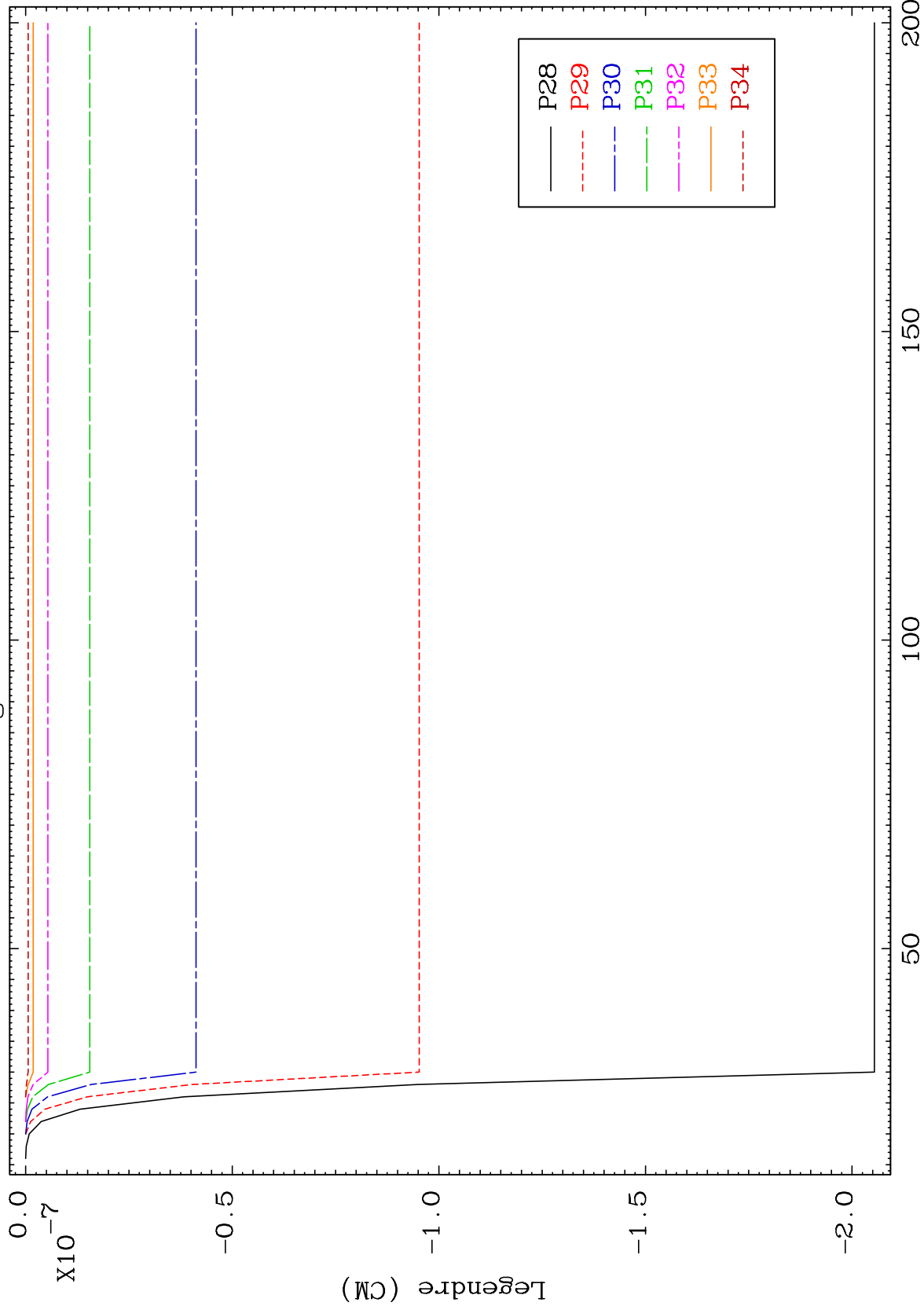
64-Gd-148

MAT 6413

MT= 66 (n,n') Level

64-Gd-148

Legendre Coefficients



64-Gd-148

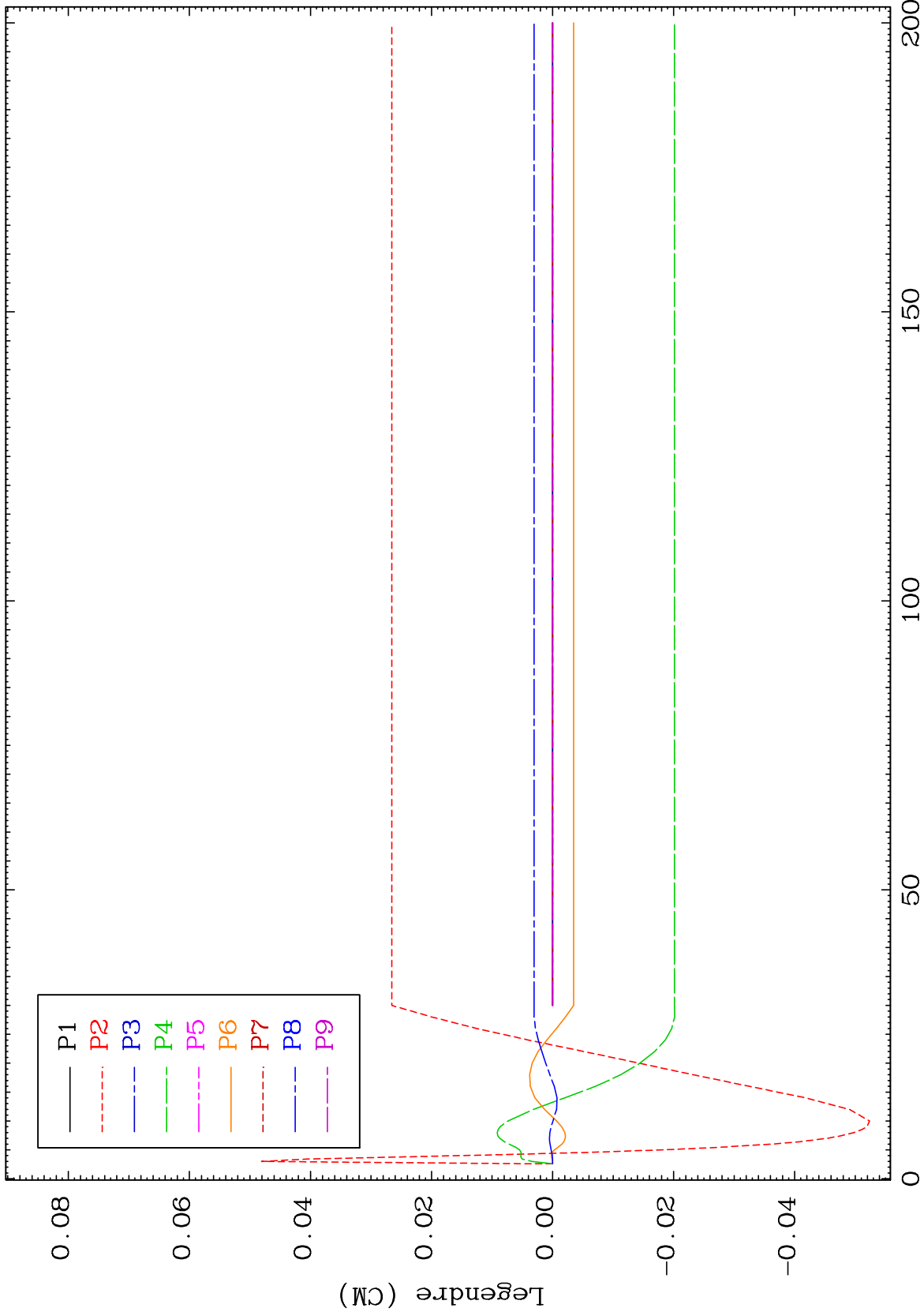
Incident Energy (MeV)

82

MAT 6413

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

64-Gd-148



83

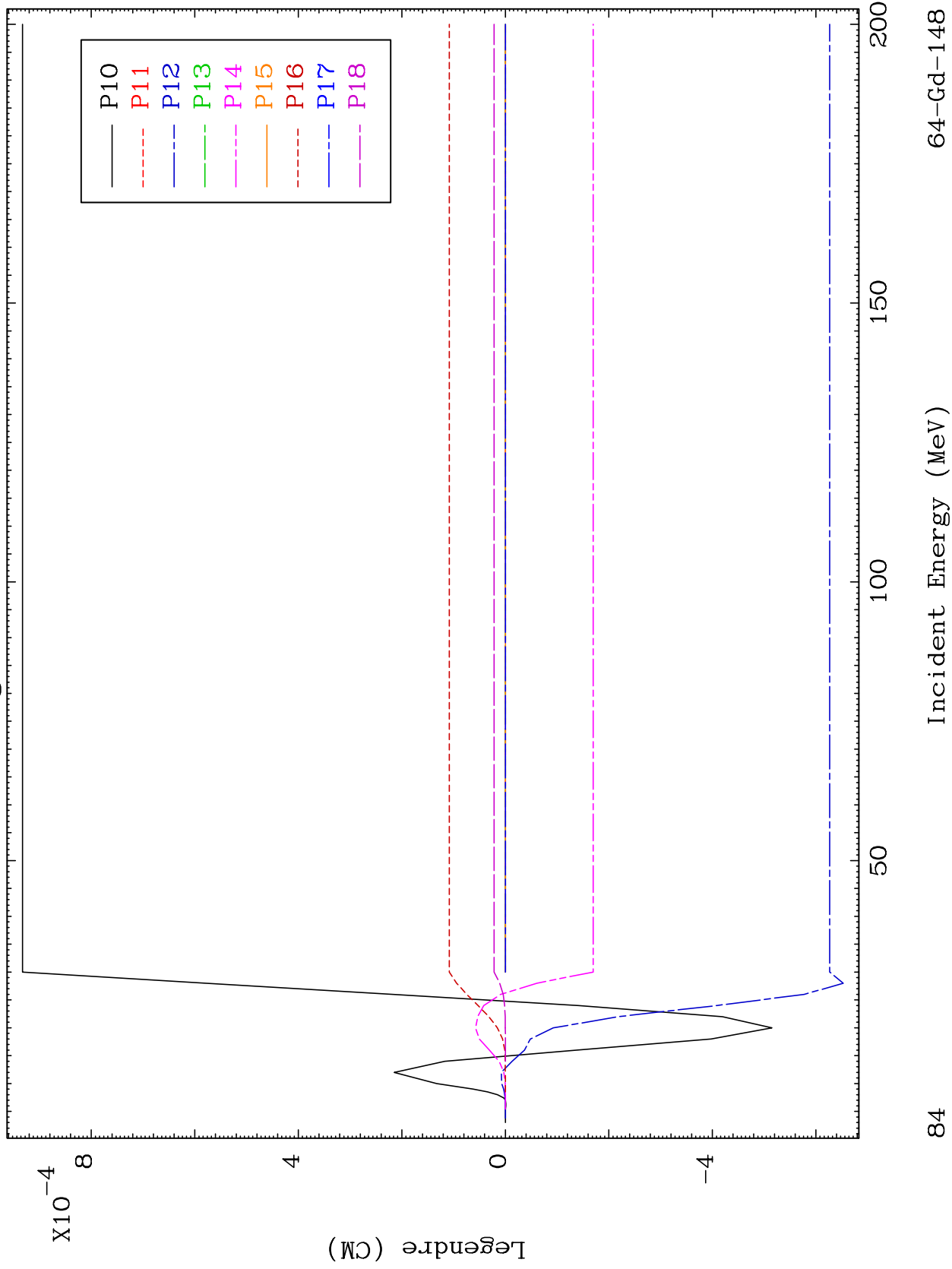
Incident Energy (MeV)

64-Gd-148

MAT 6413

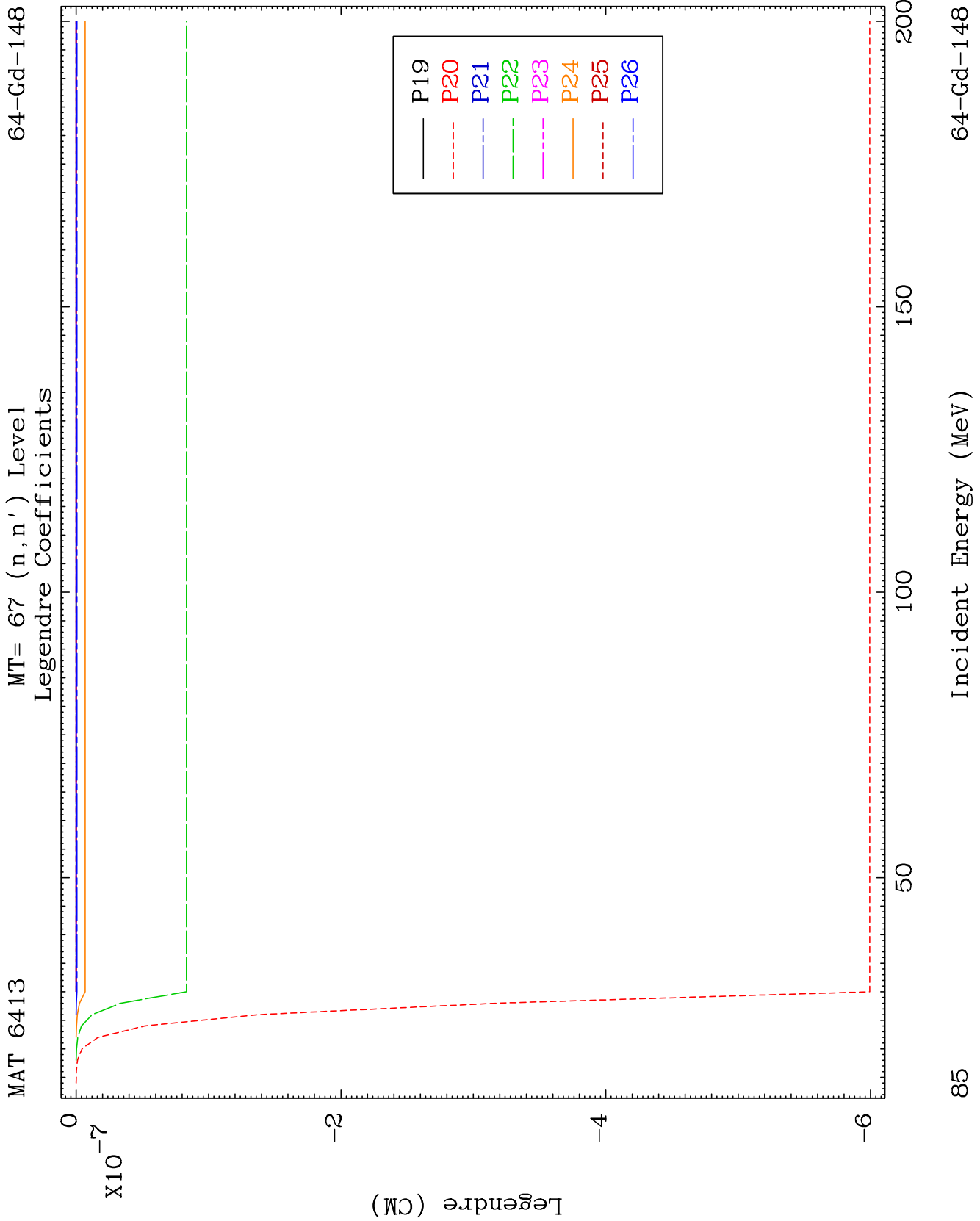
MT= 67 (n,n') Level
Legendre Coefficients

64-Gd-148



84

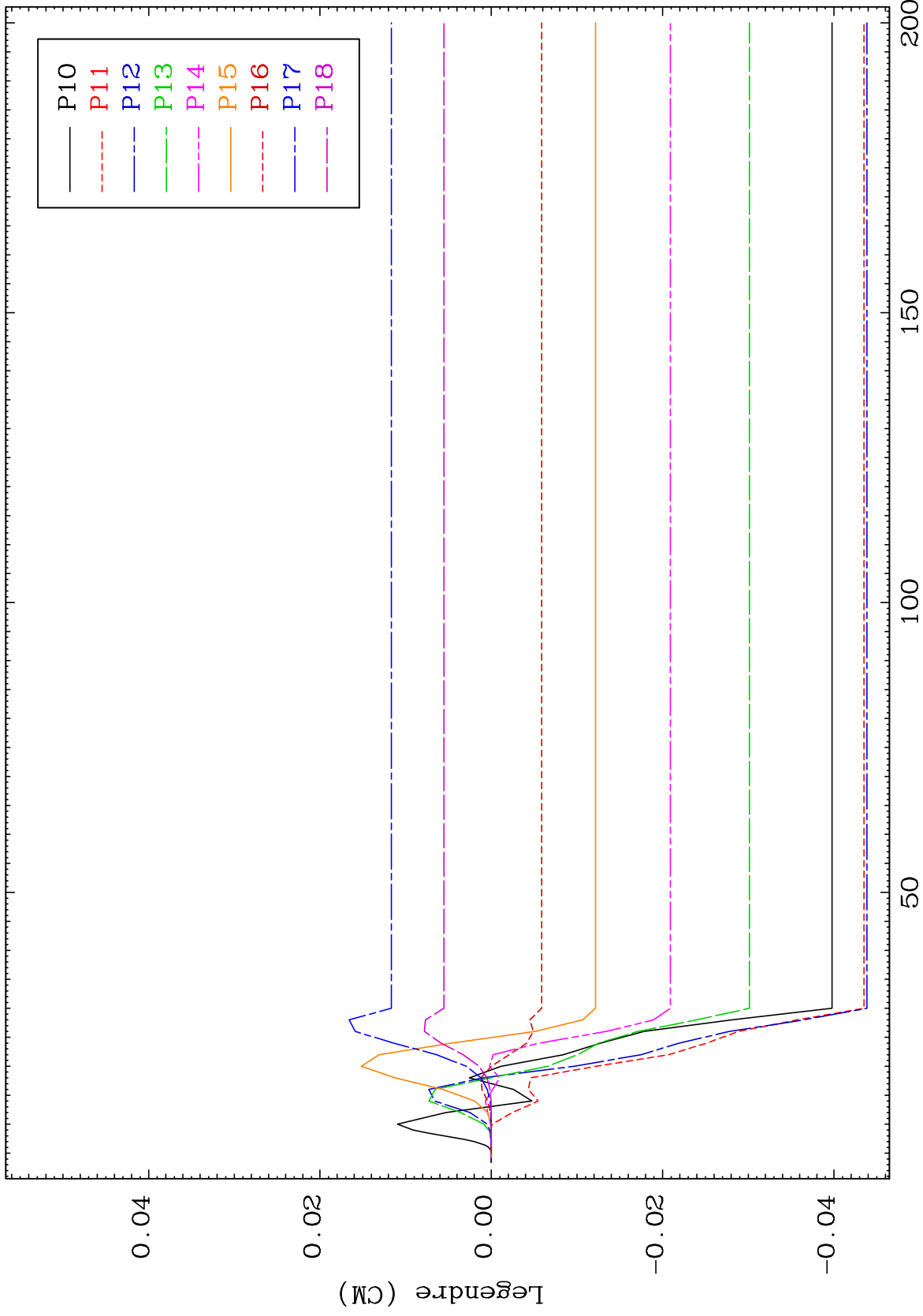
64-Gd-148



MAT 6413

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

64-Gd-148



87

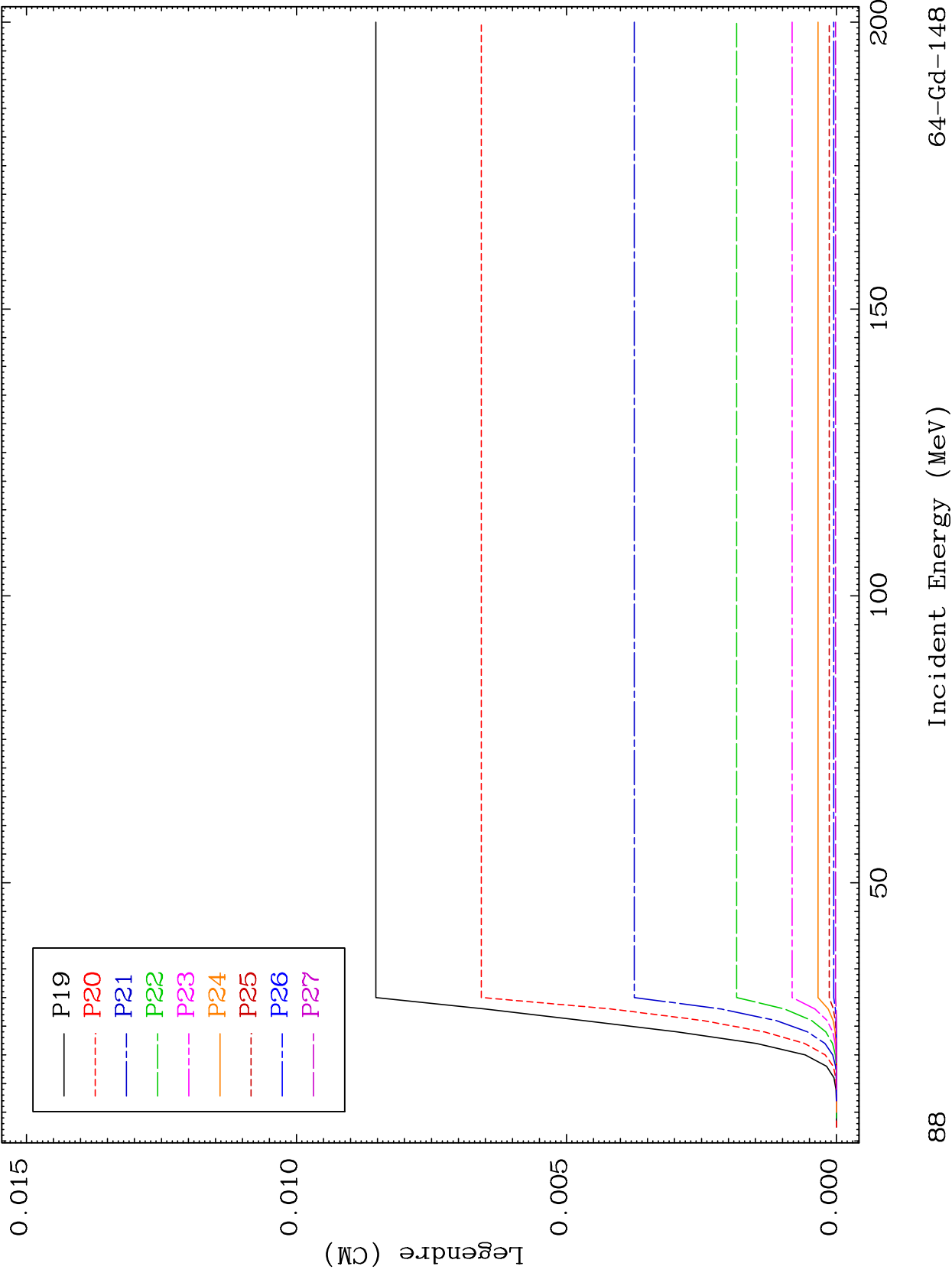
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



88

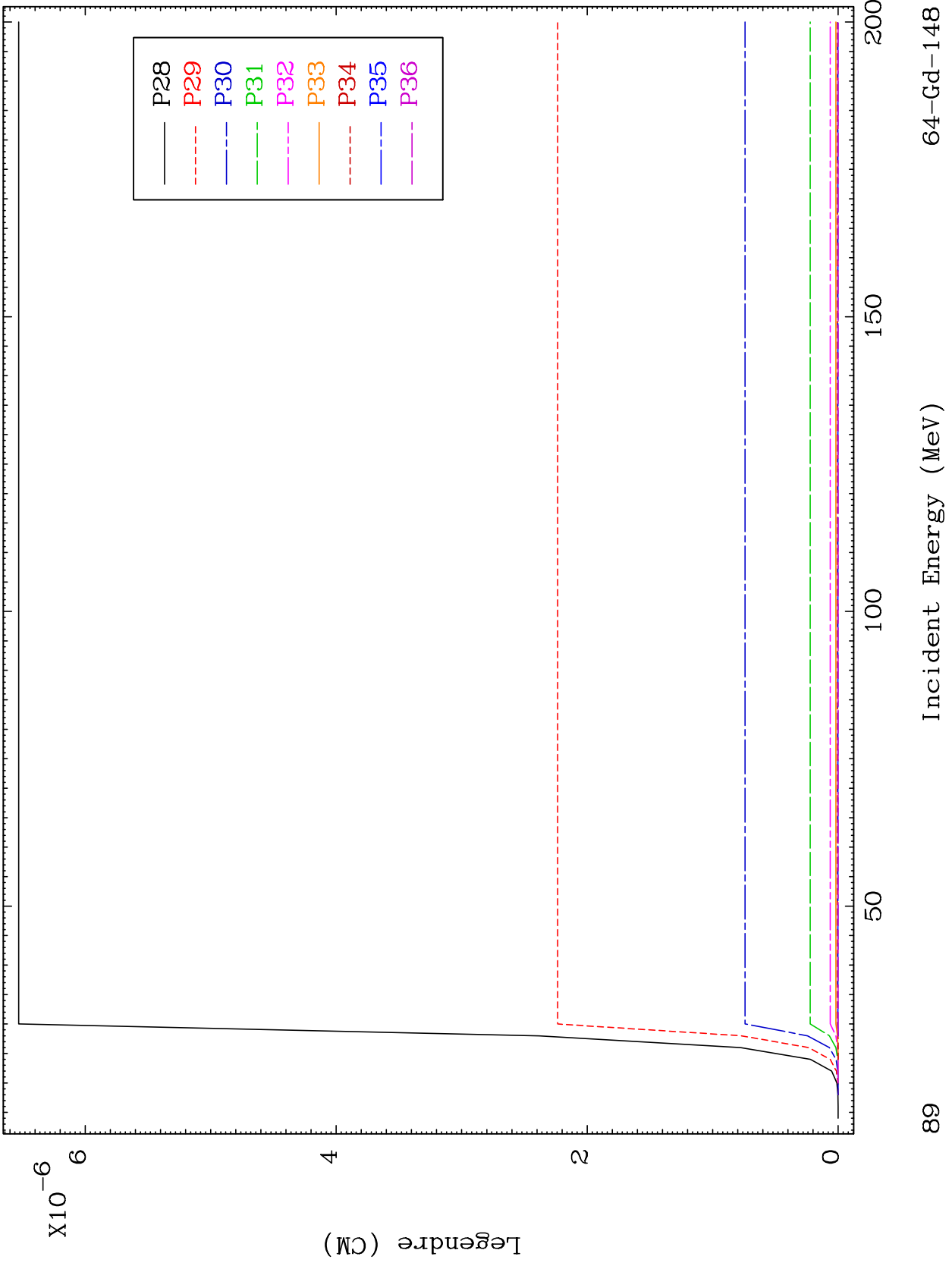
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



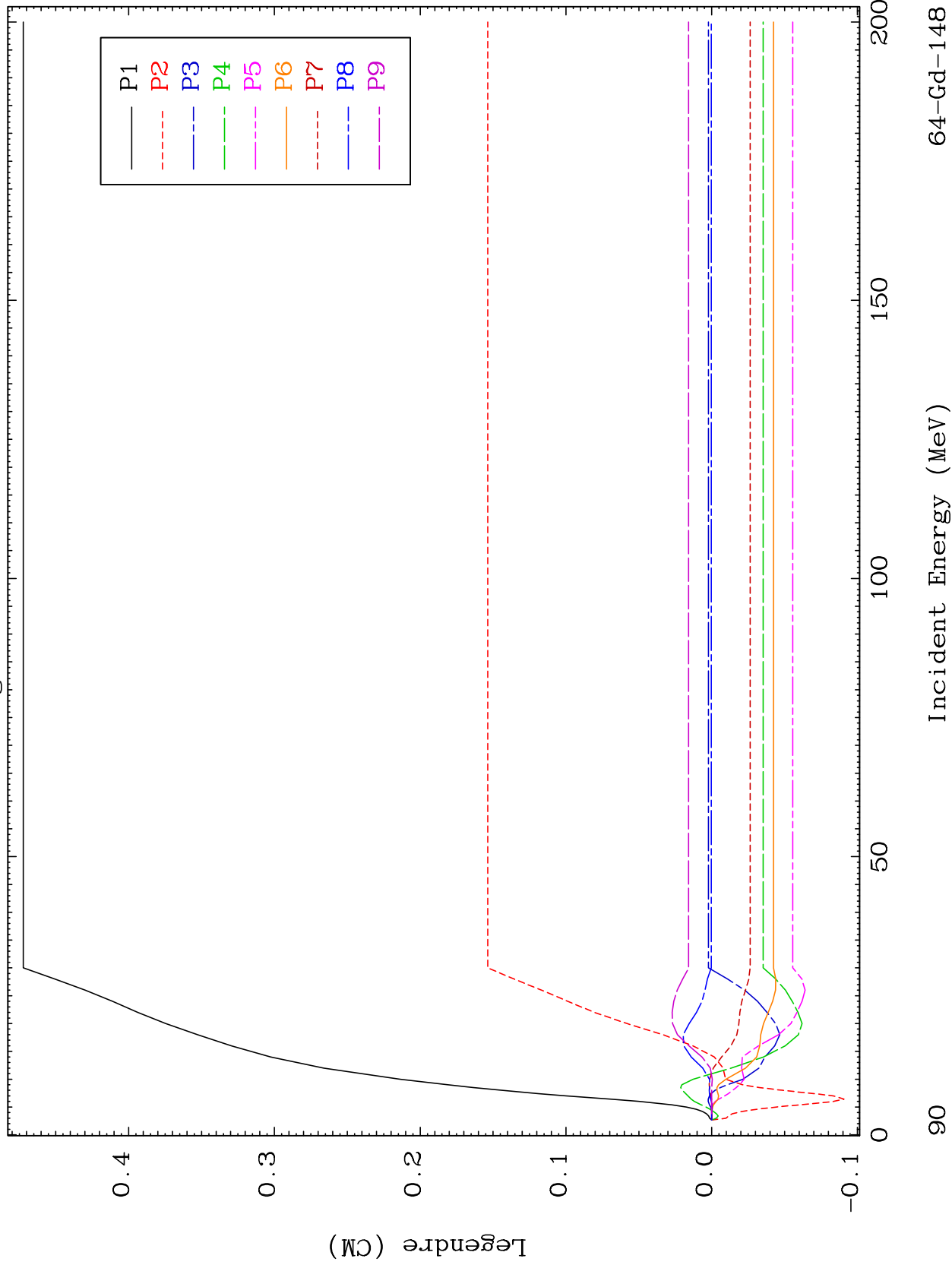
89

64-Gd-148

MAT 6413

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

64-Gd-148

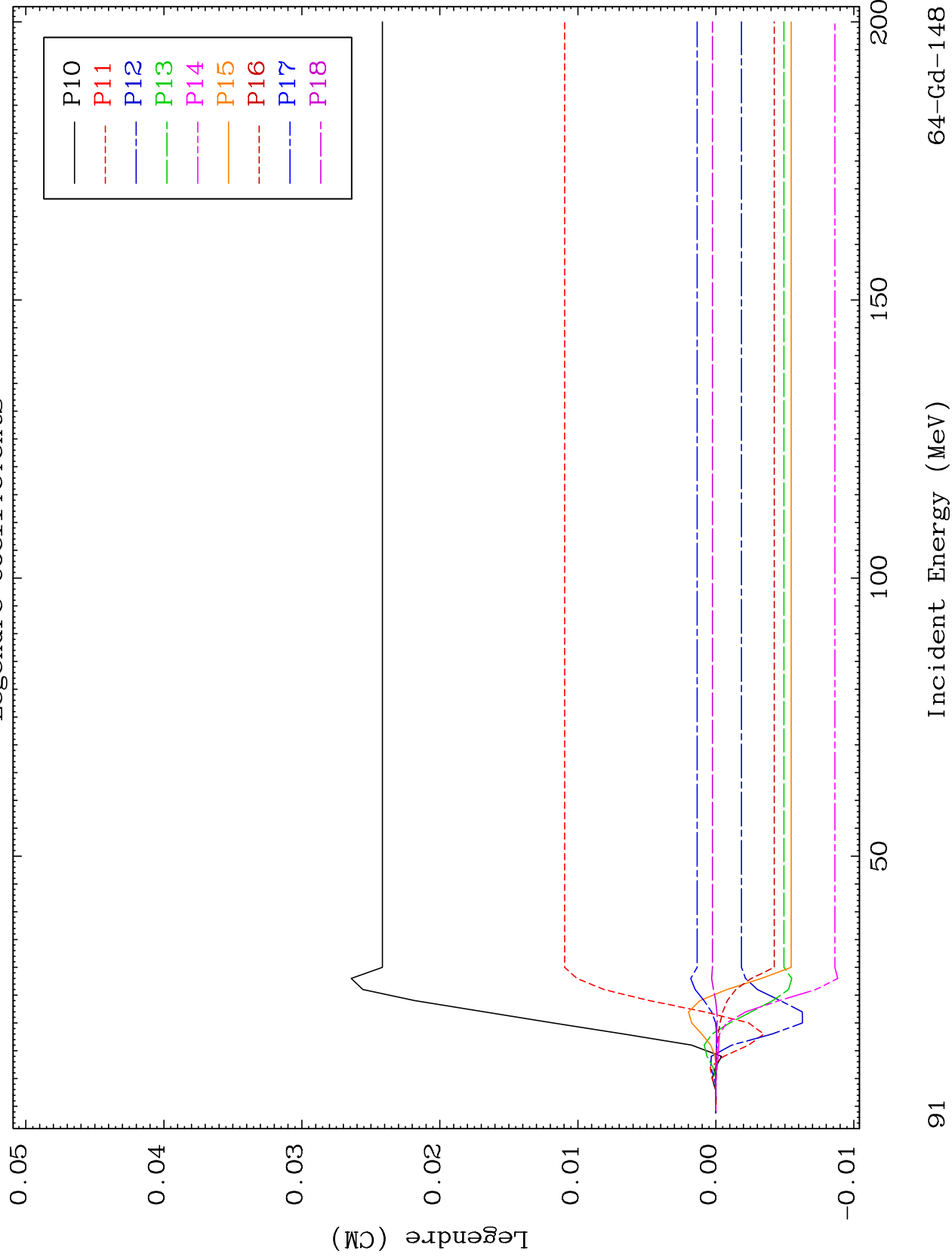


64-Gd-148

MAT 6413

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

64-Gd-148



91

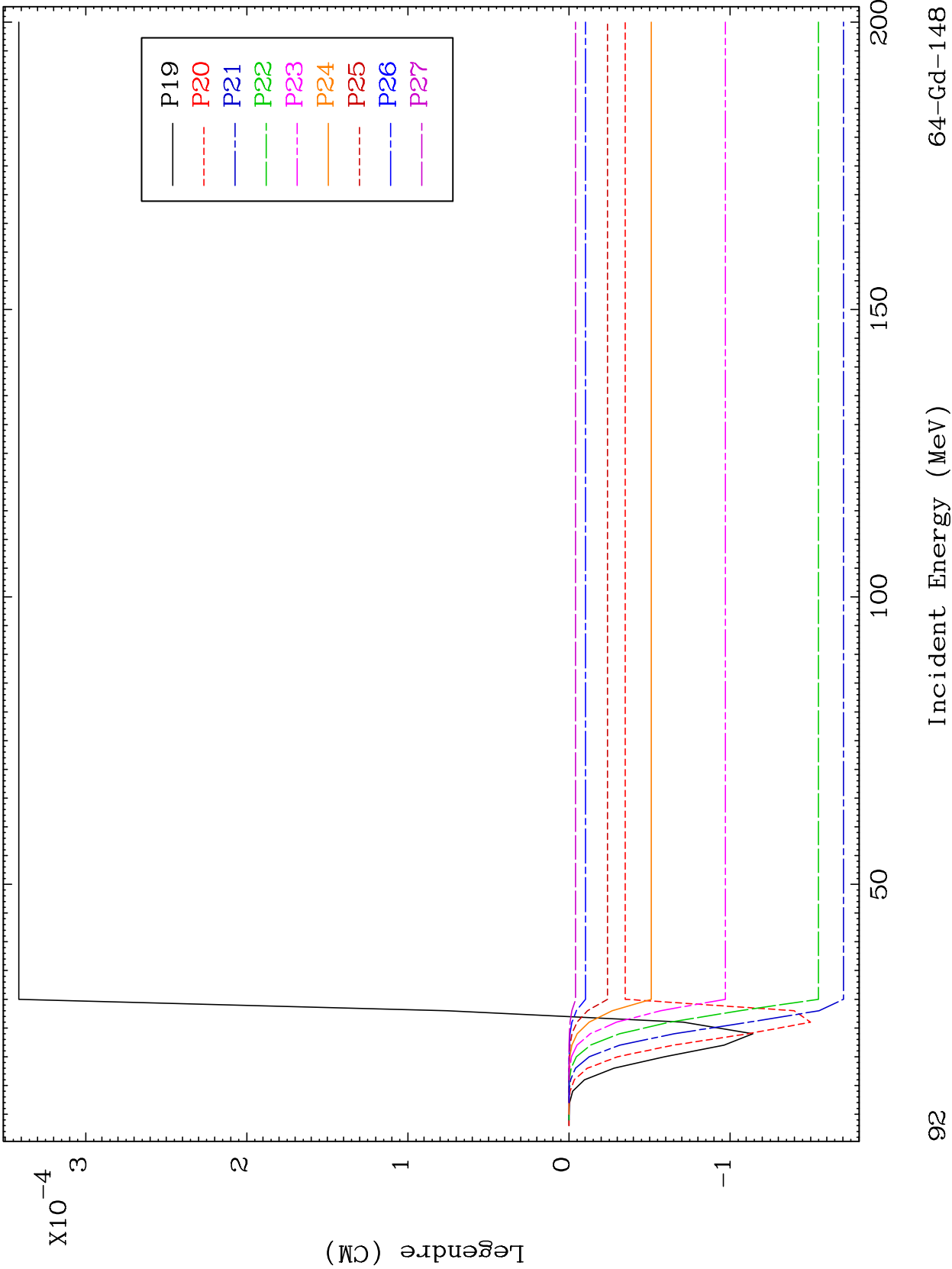
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

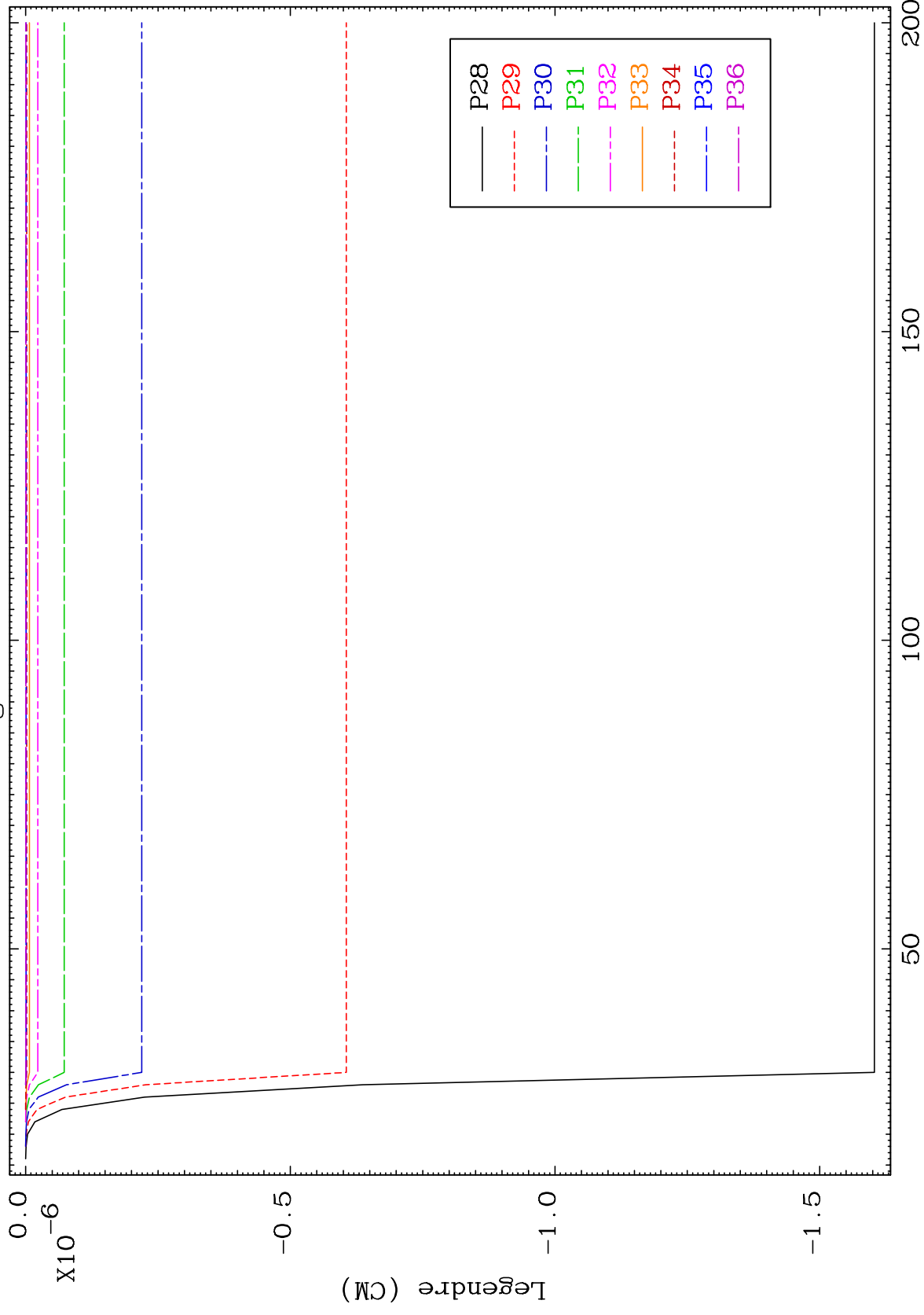
64-Gd-148



MAT 6413

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

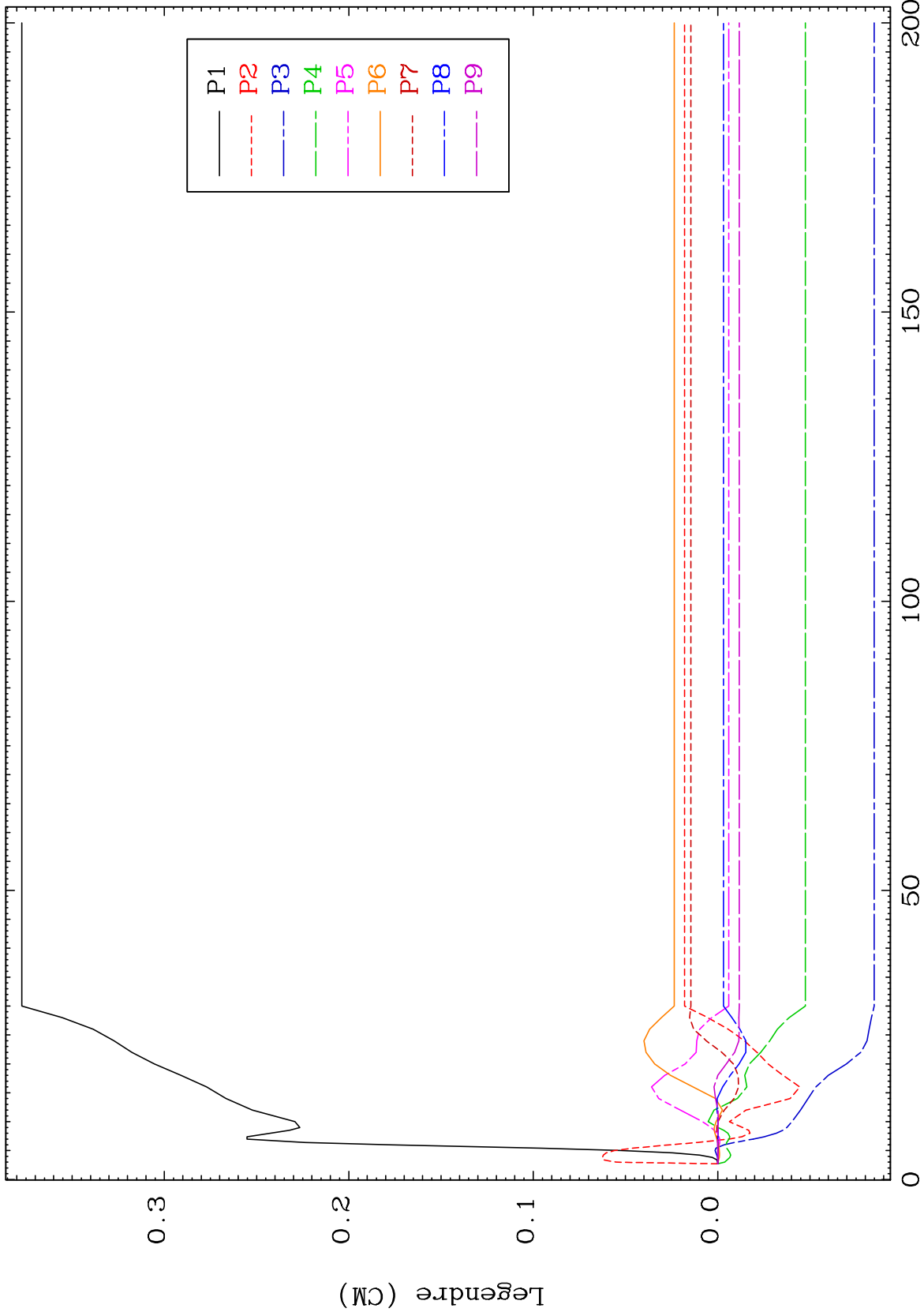
64-Gd-148



MAT 6413

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

64-Gd-148



94

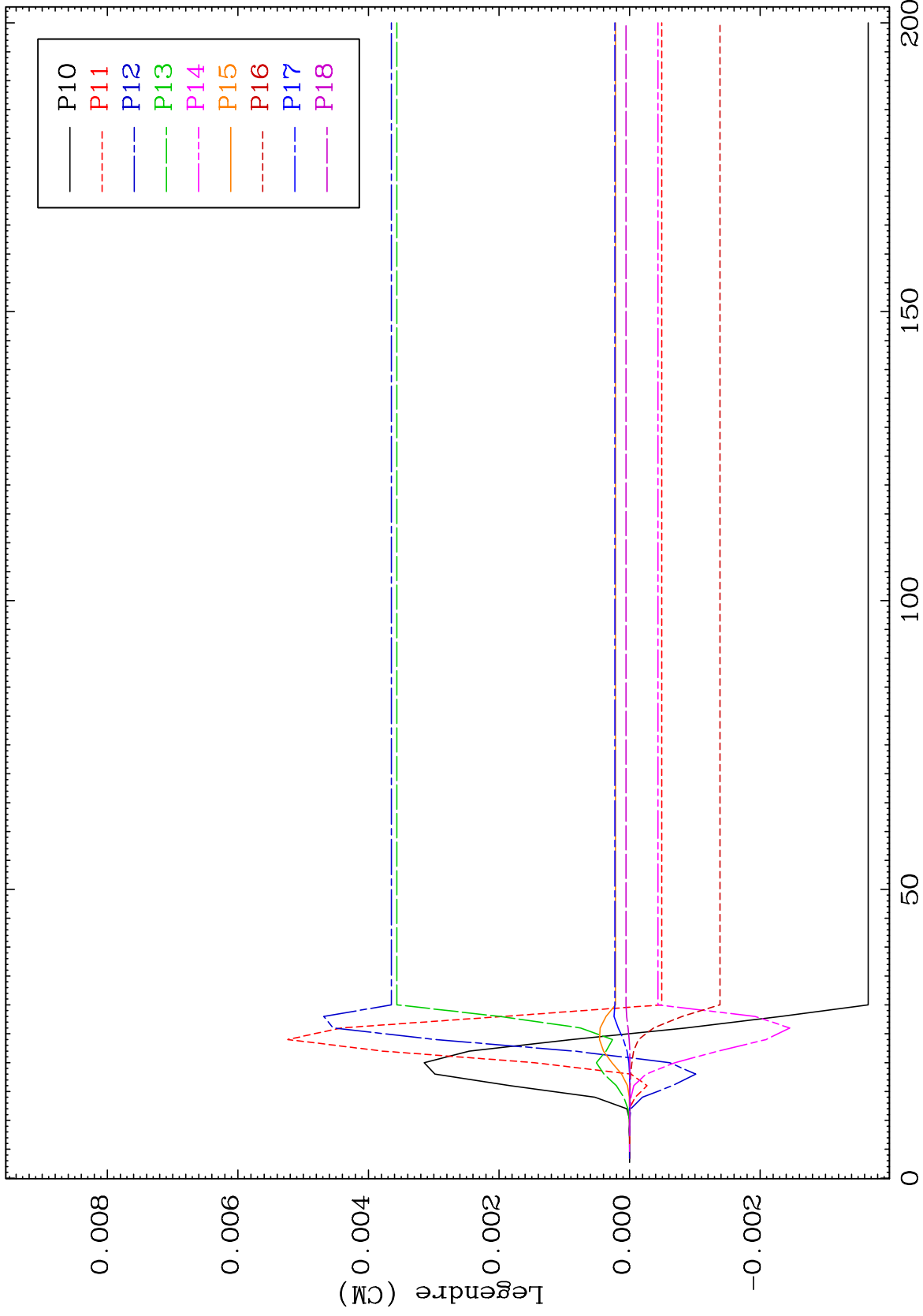
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



95

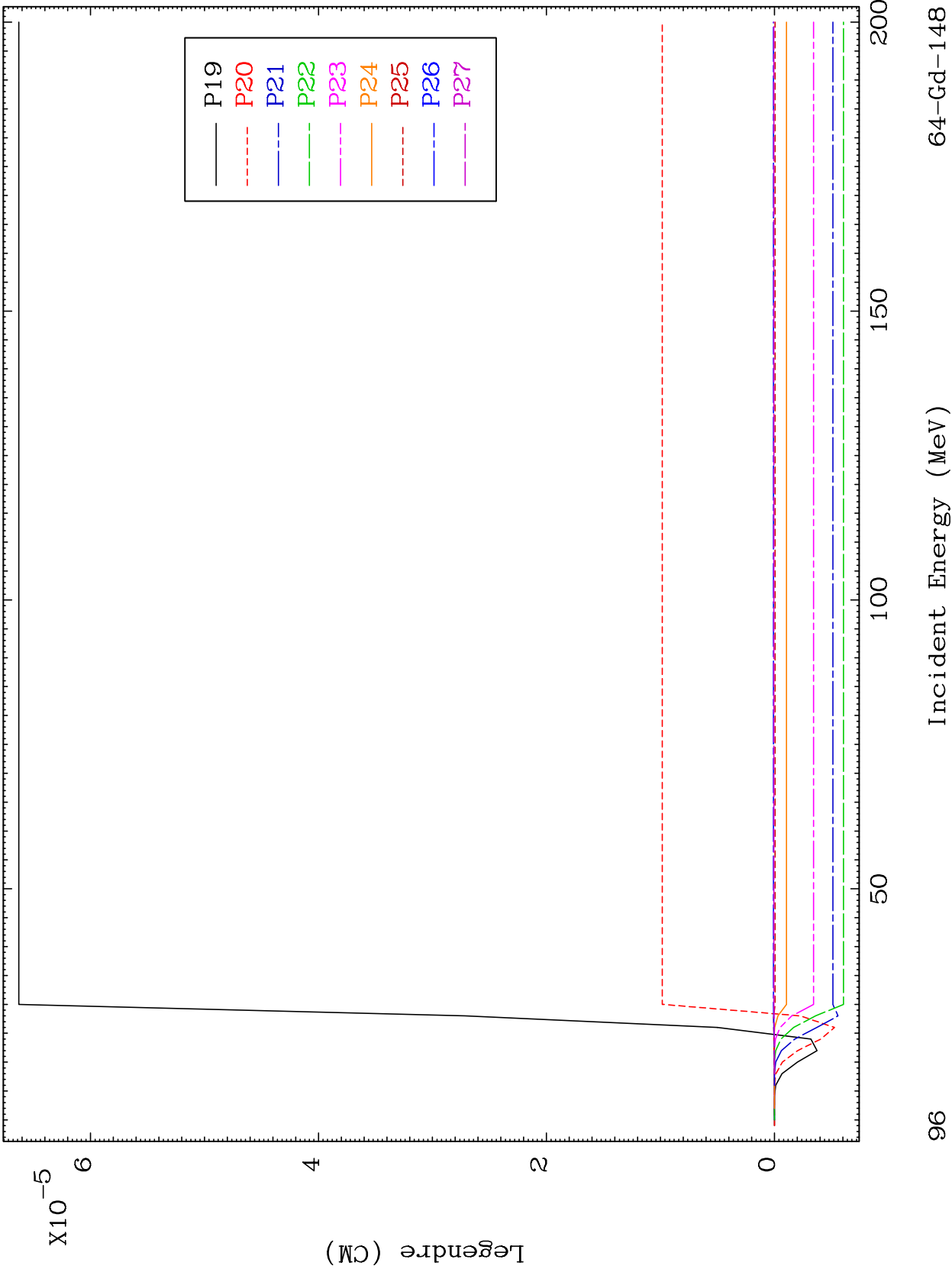
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



96

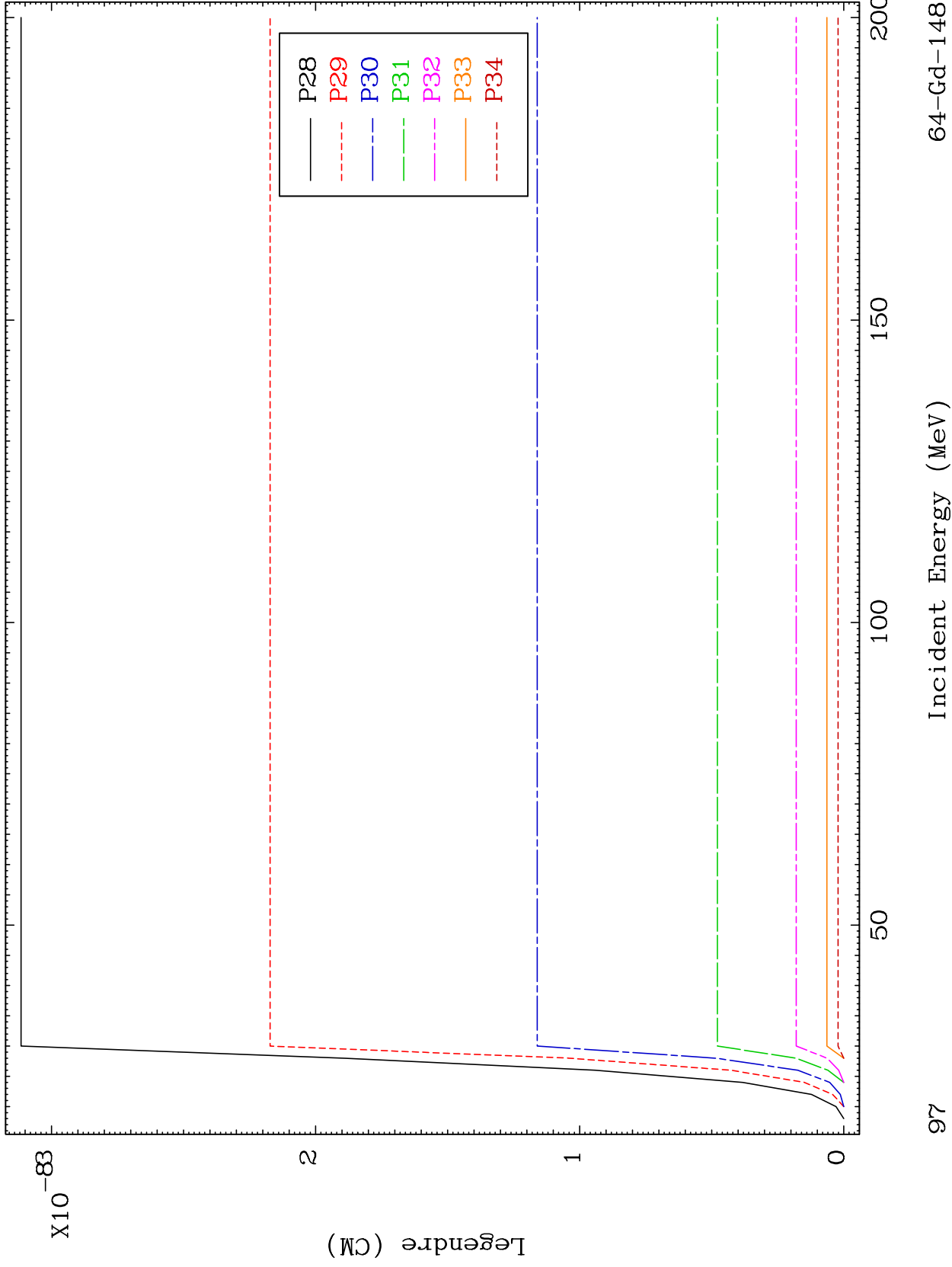
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

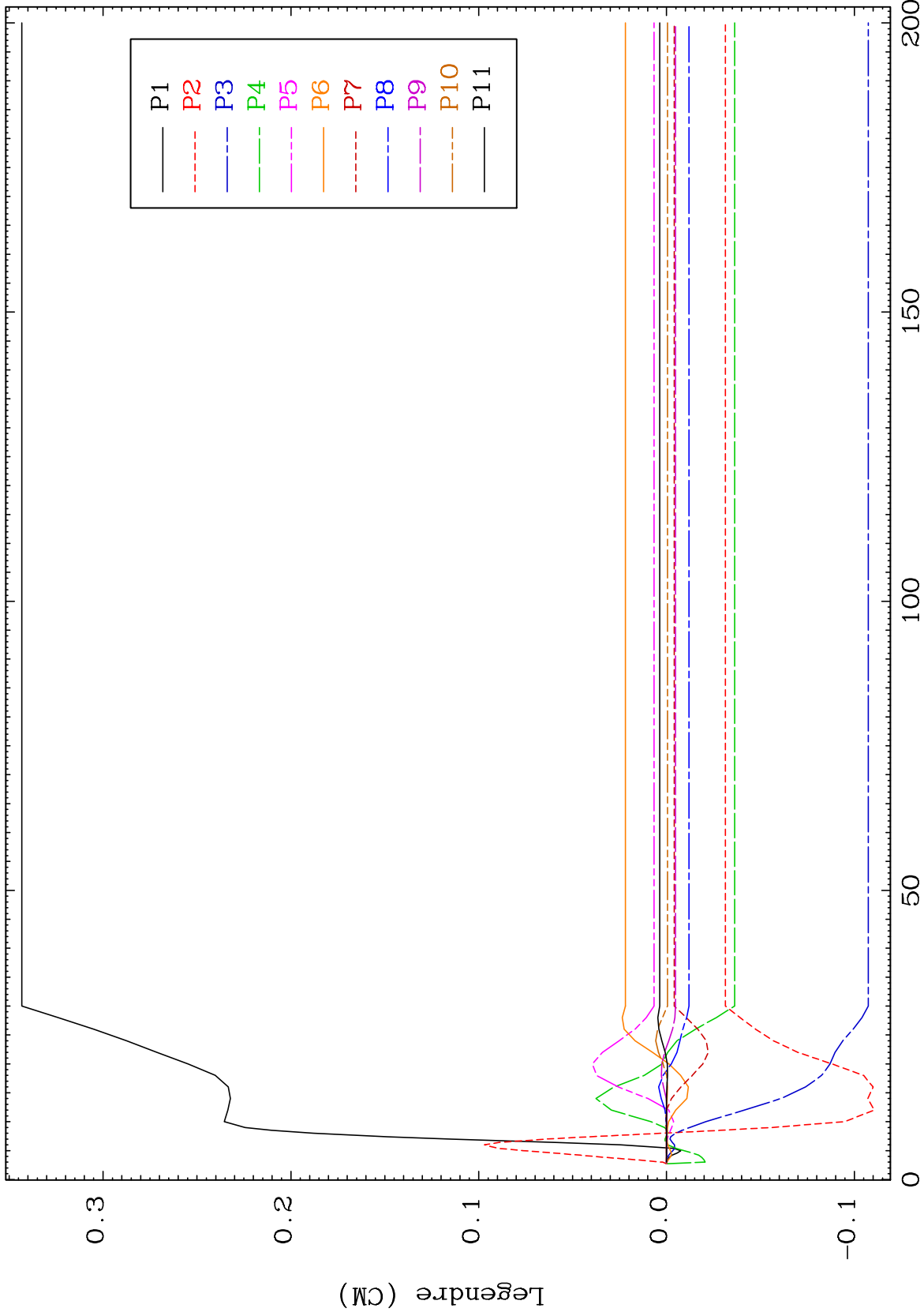
64-Gd-148



MAT 6413

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

64-Gd-148



98

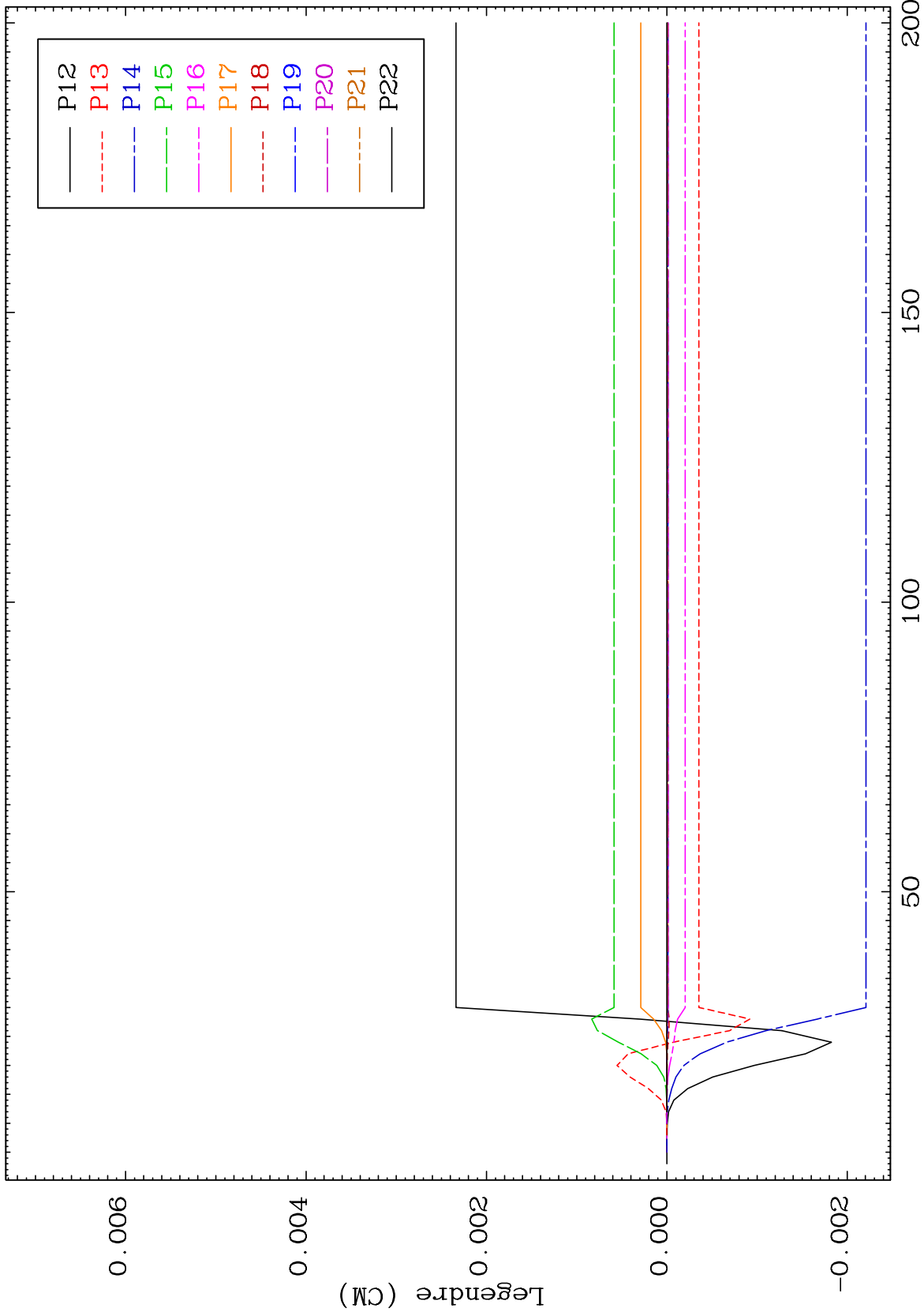
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



99

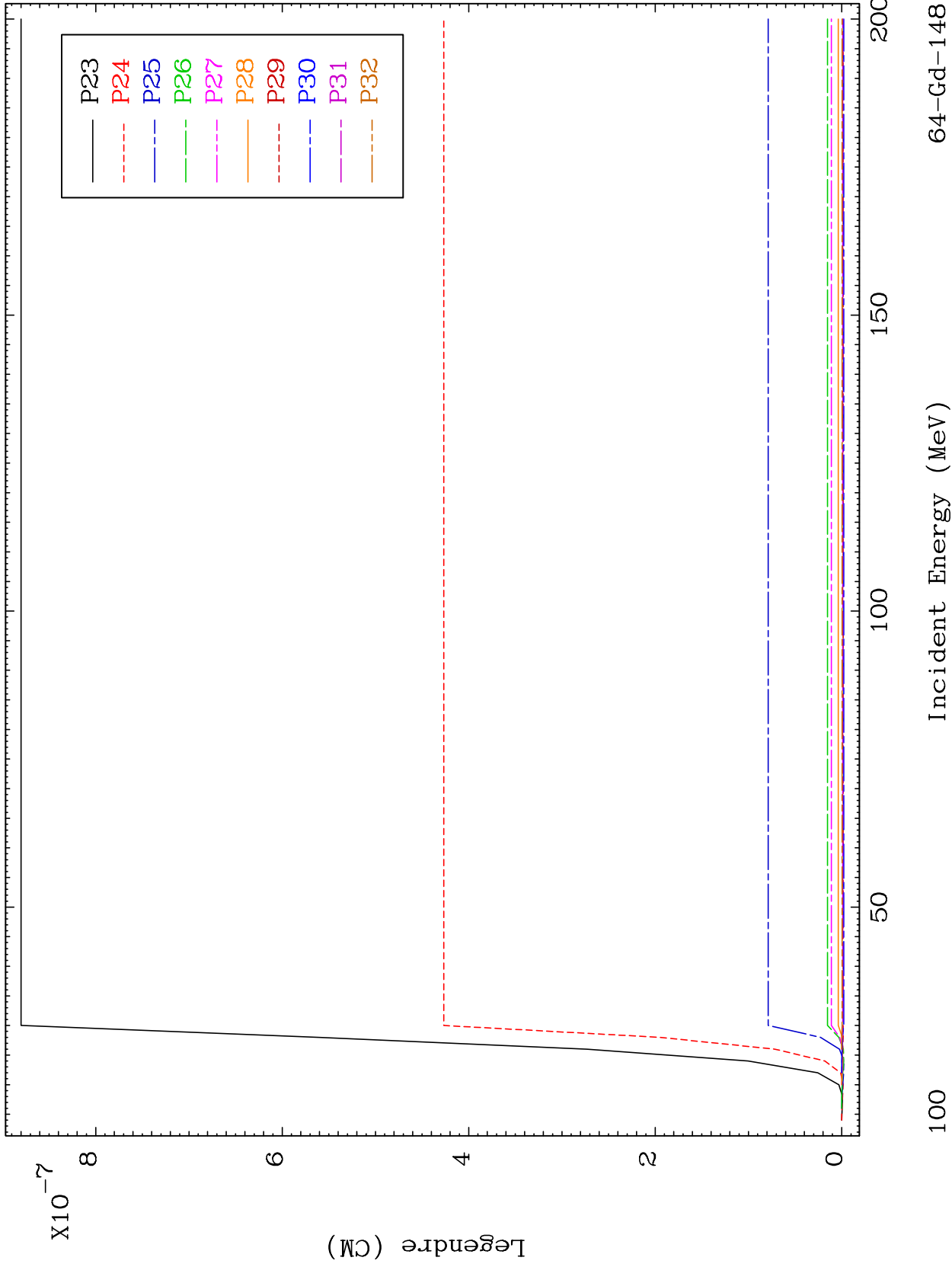
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



64-Gd-148

Incident Energy (MeV)

100

200

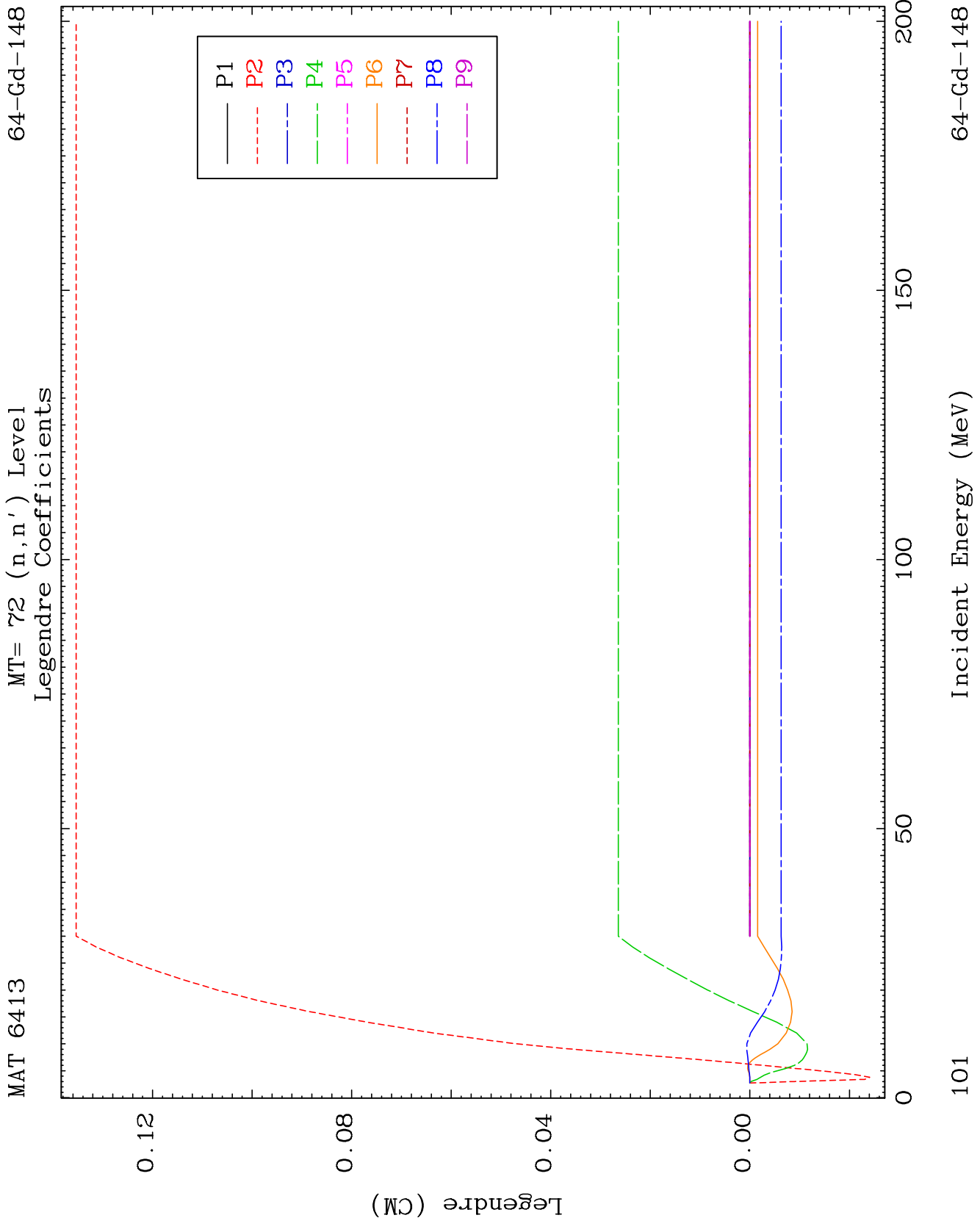
150

100

50

$\times 10^{-7}$

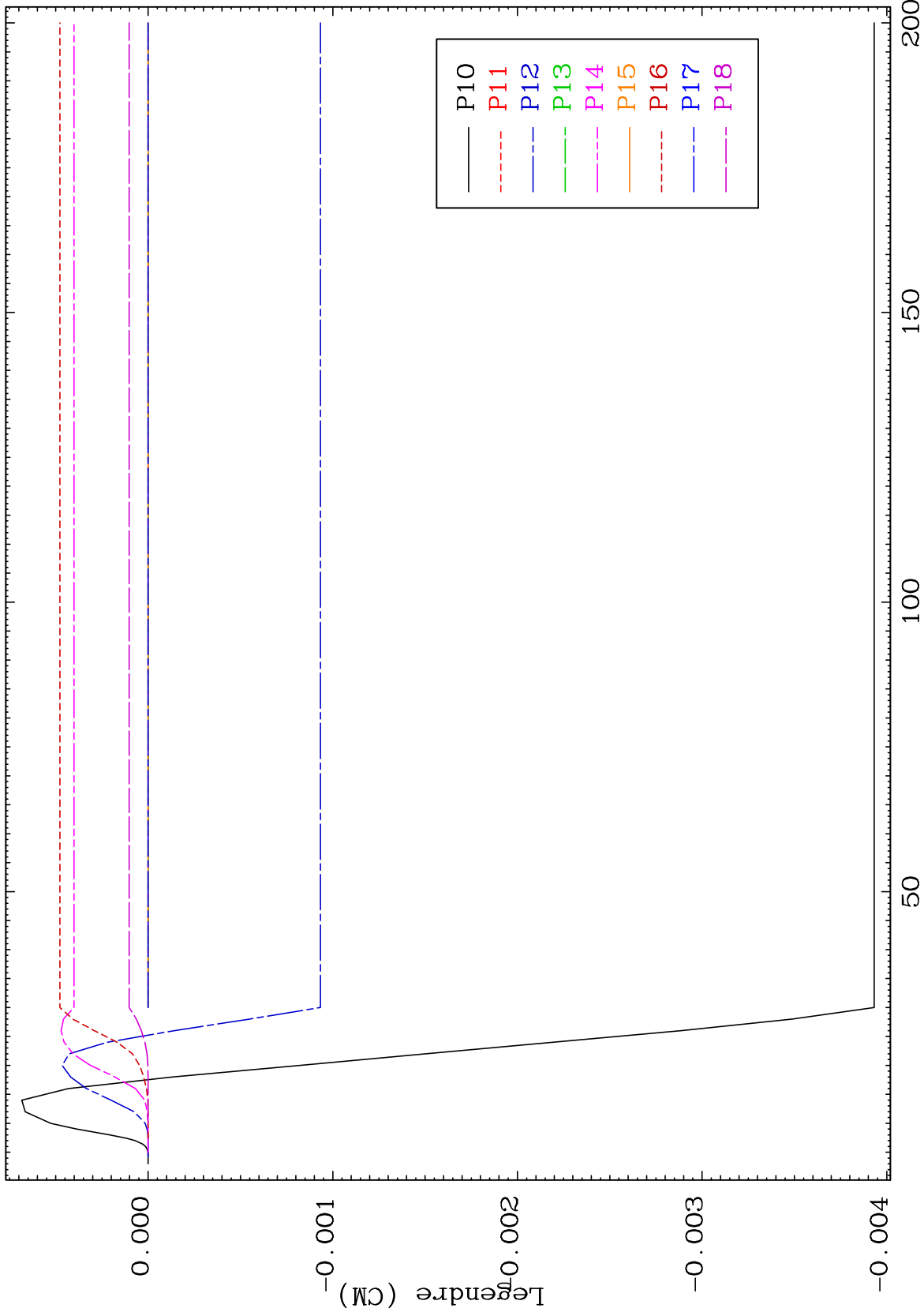
Legendre (CM)



MAT 6413

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

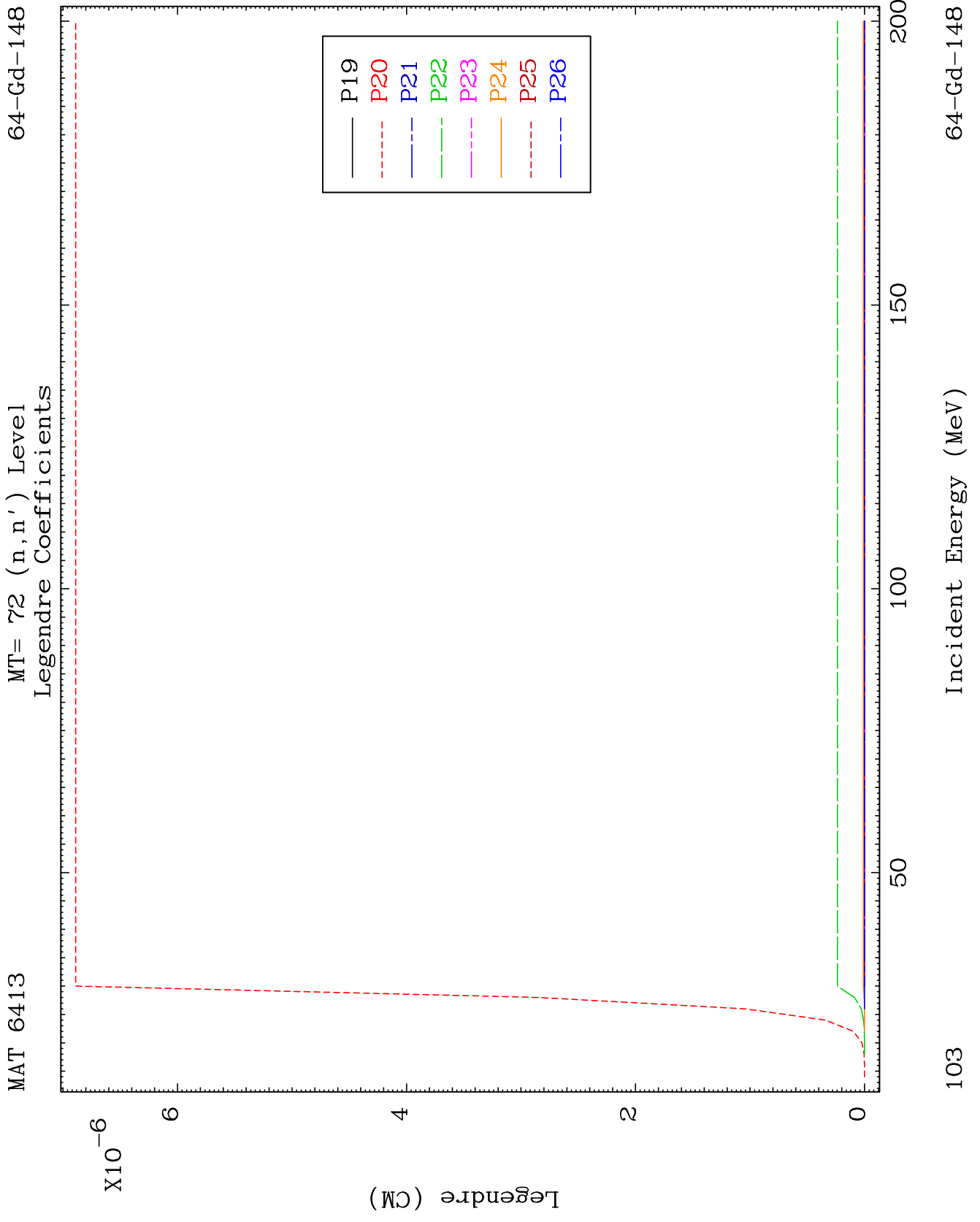
64-Gd-148



102

Incident Energy (MeV)

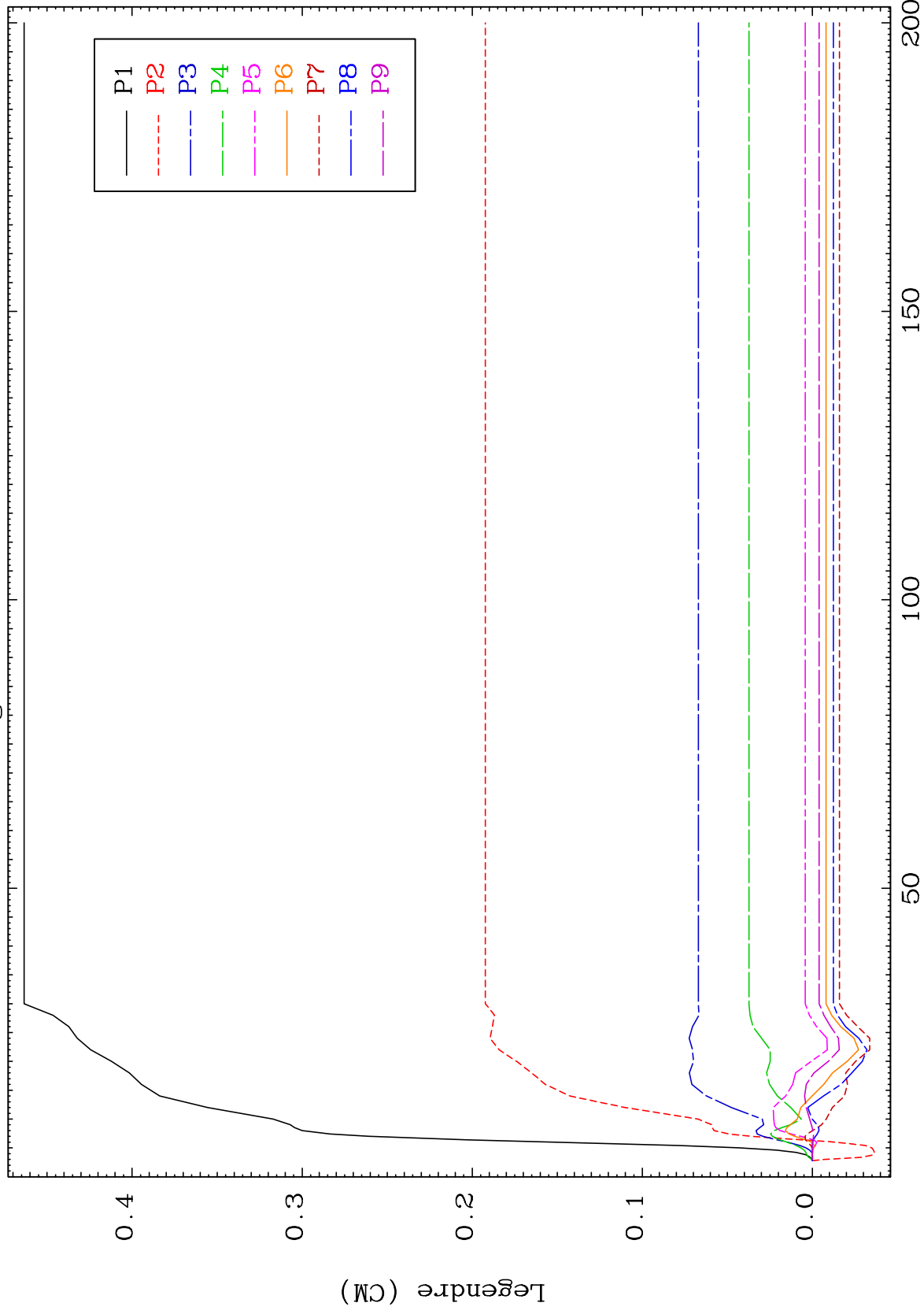
64-Gd-148



MAT 6413

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

64-Gd-148



104

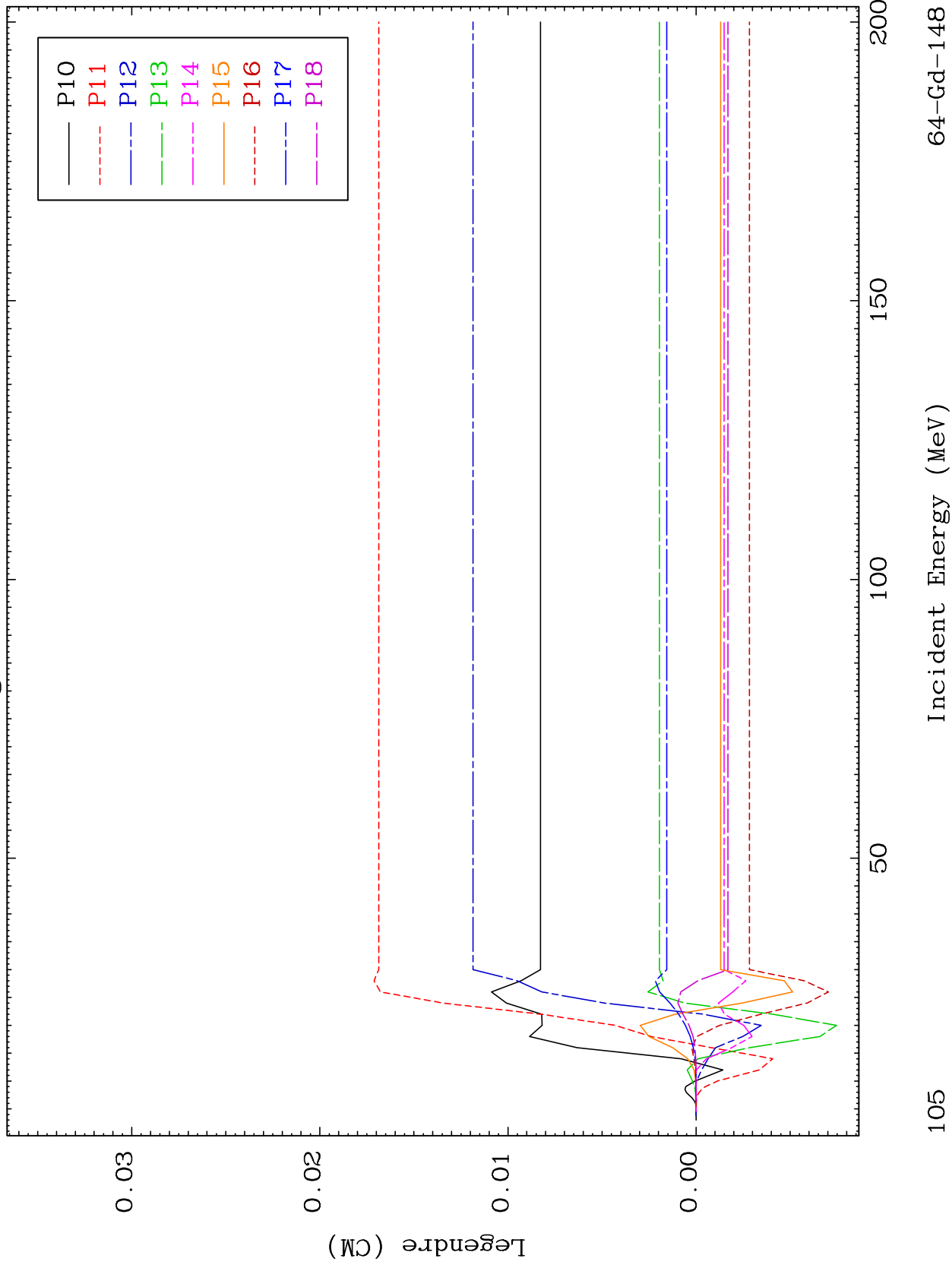
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

64-Gd-148



64-Gd-148

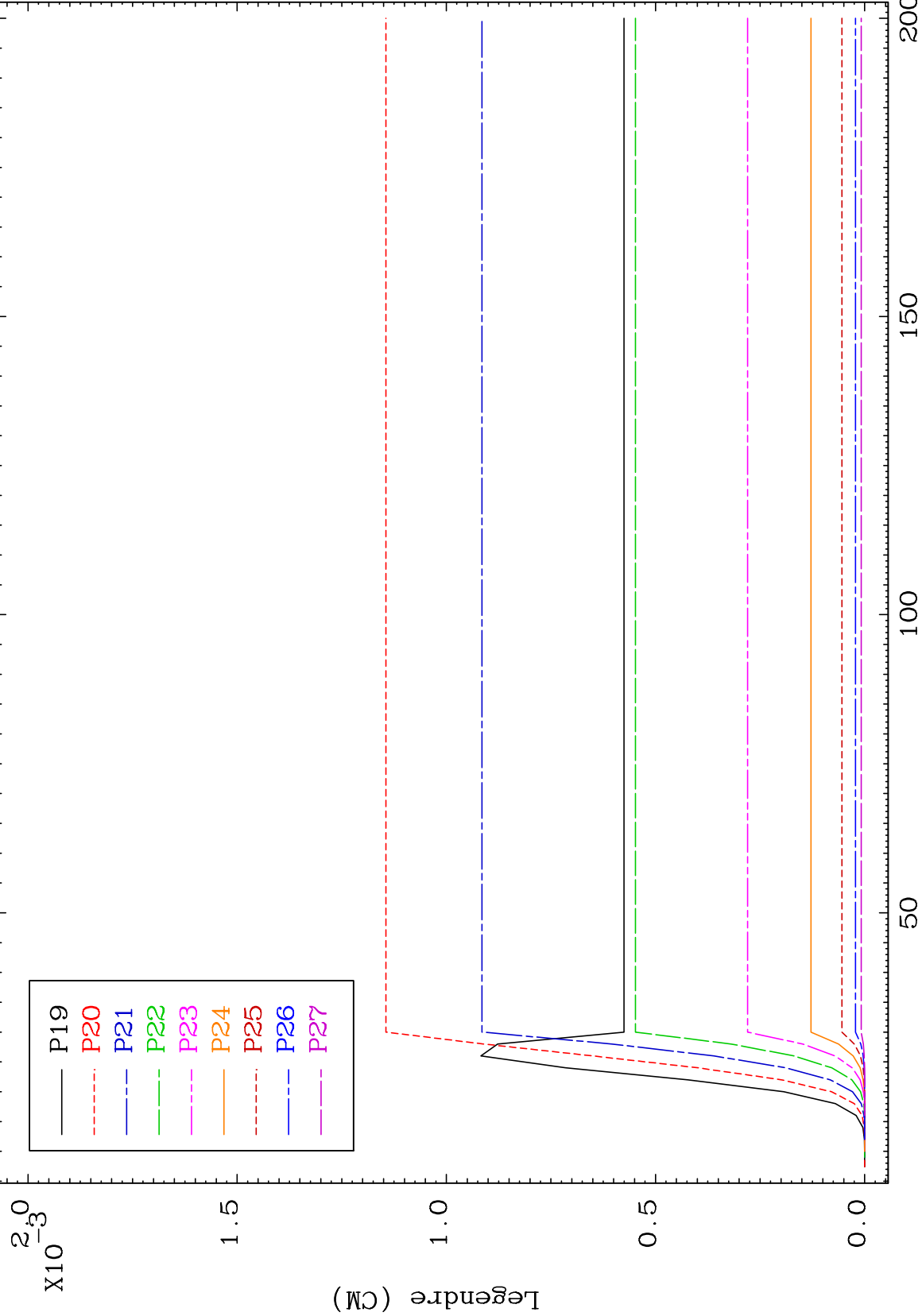
Incident Energy (MeV)

105

MAT 6413

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

64-Gd-148



106

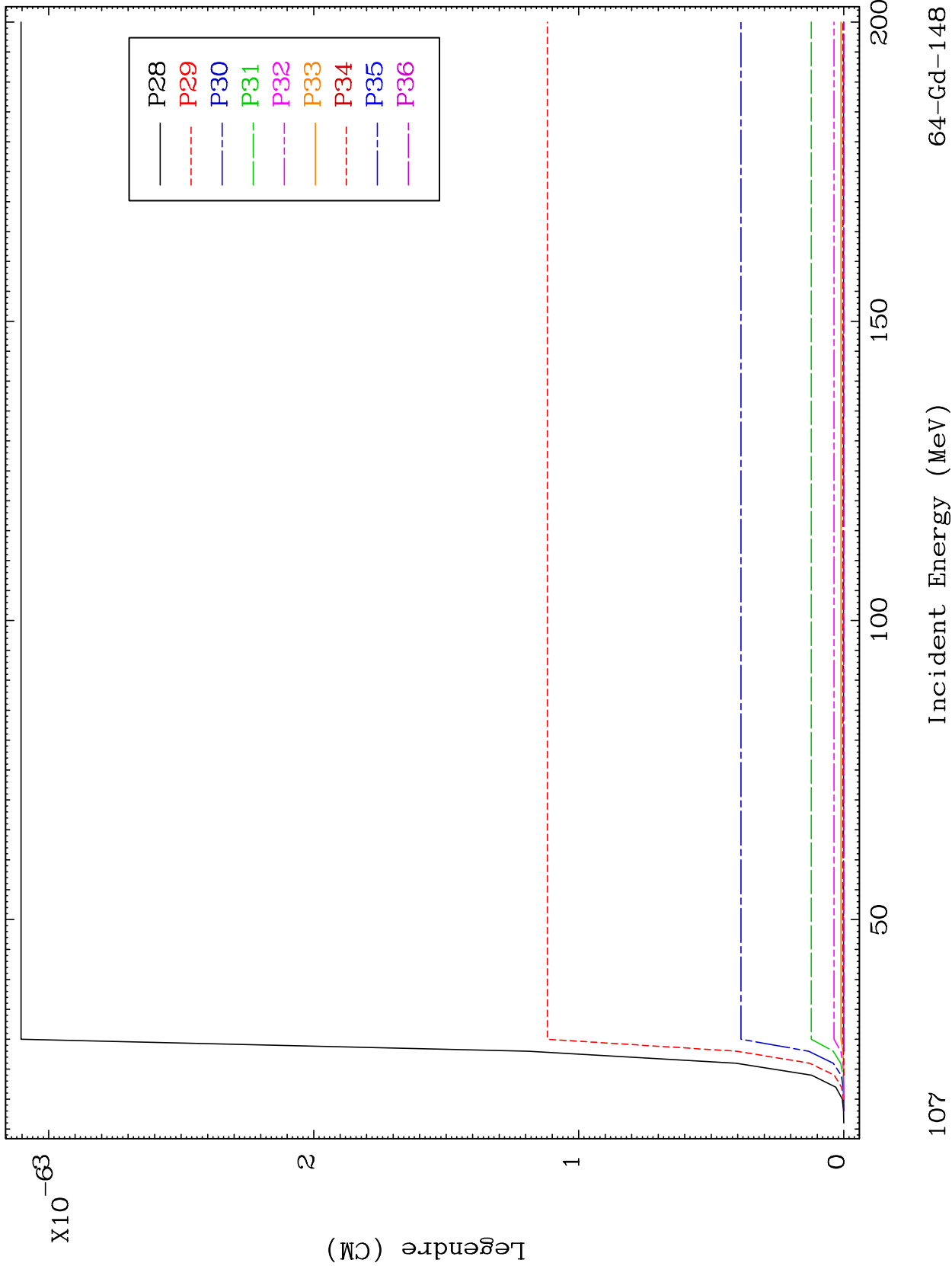
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

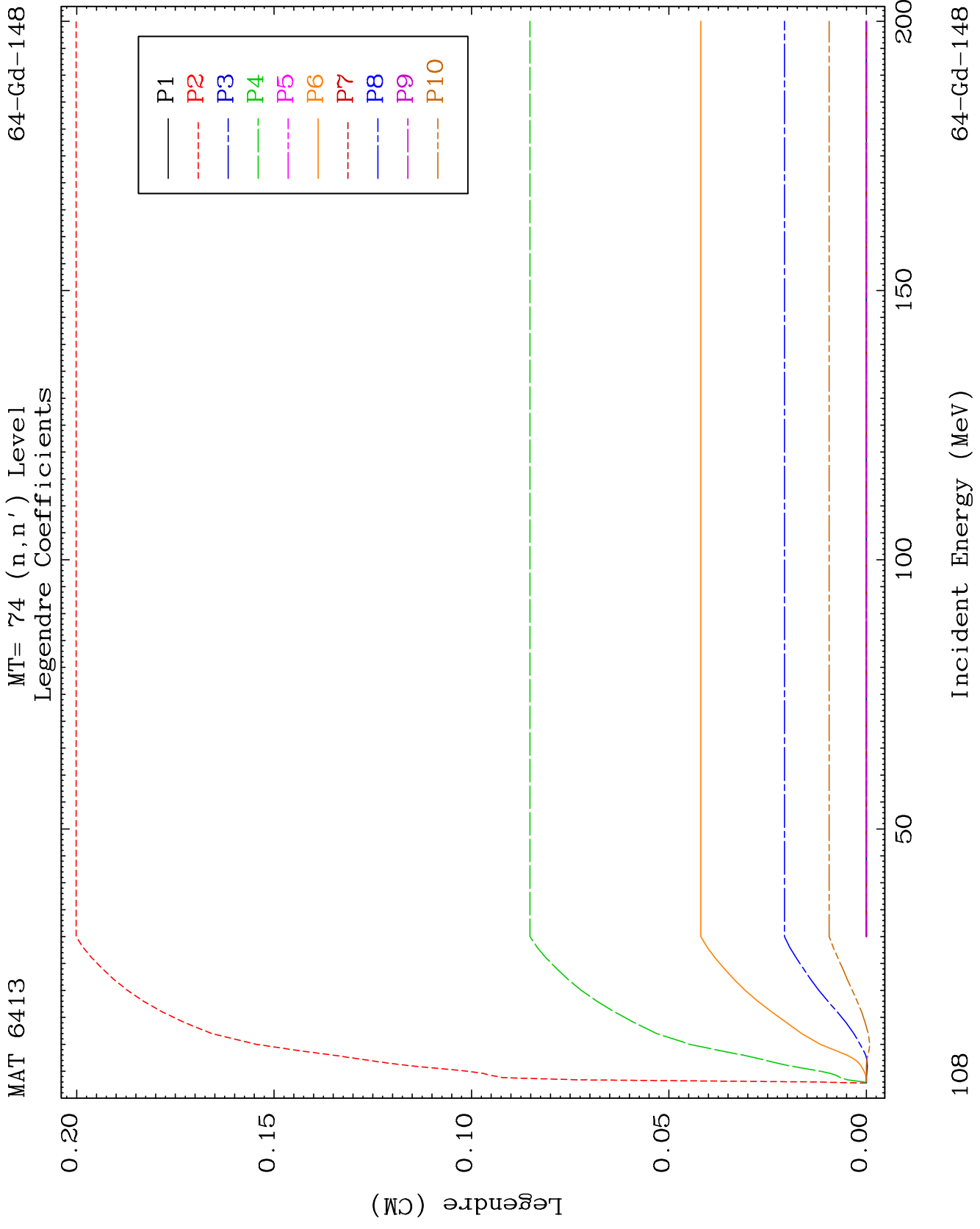
64-Gd-148



107

Incident Energy (MeV)

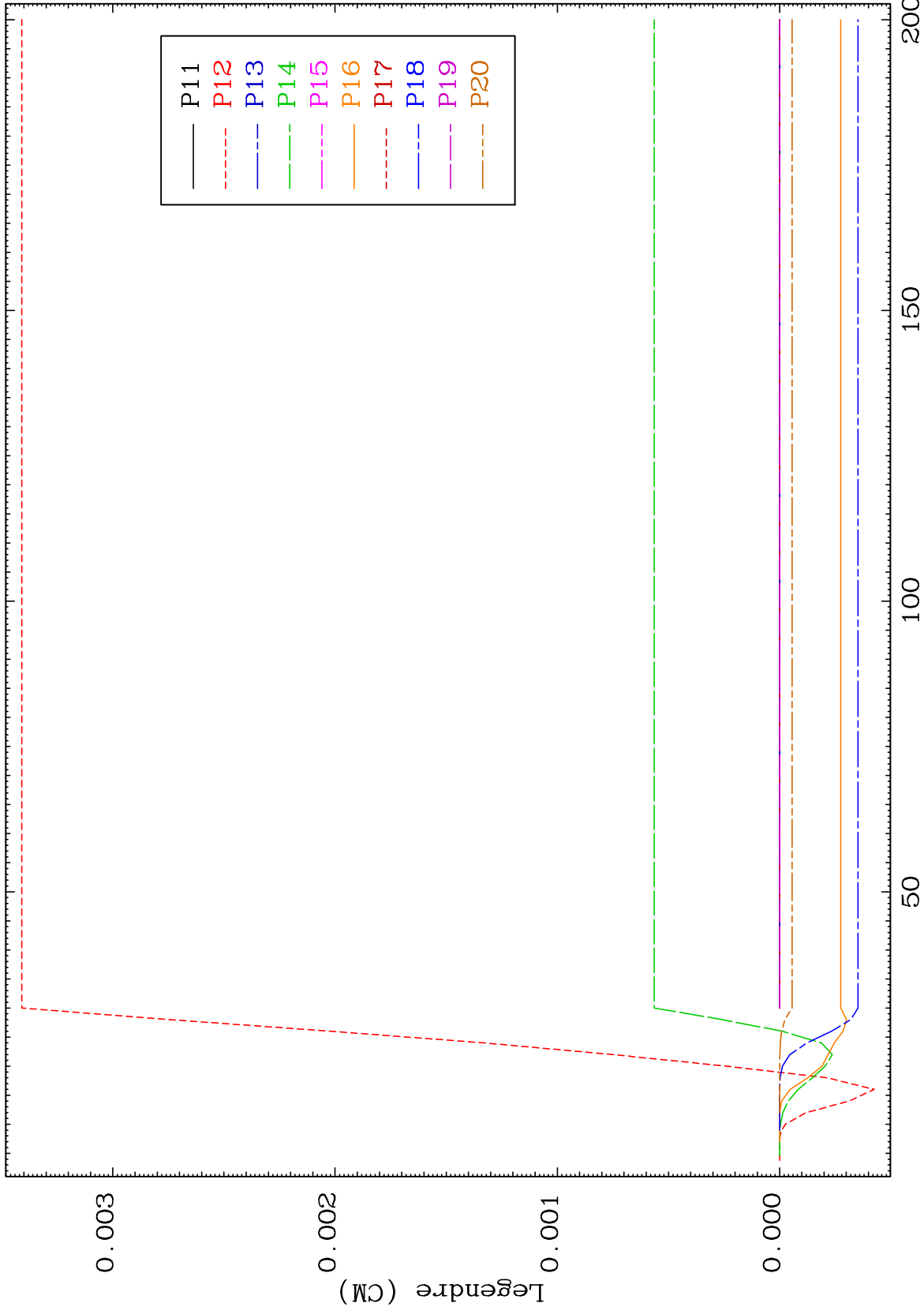
64-Gd-148



MAT 6413

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

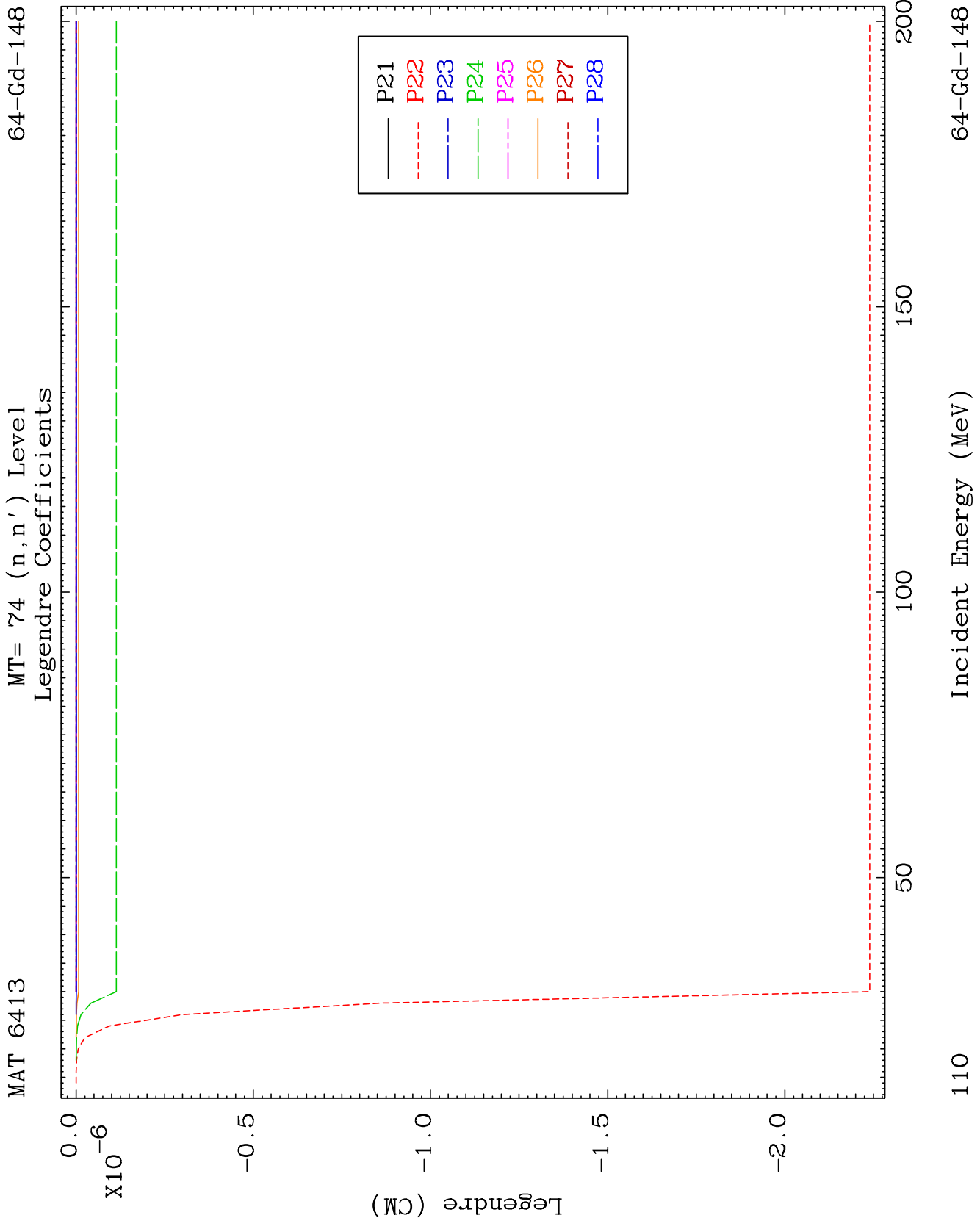
64-Gd-148



109

Incident Energy (MeV)

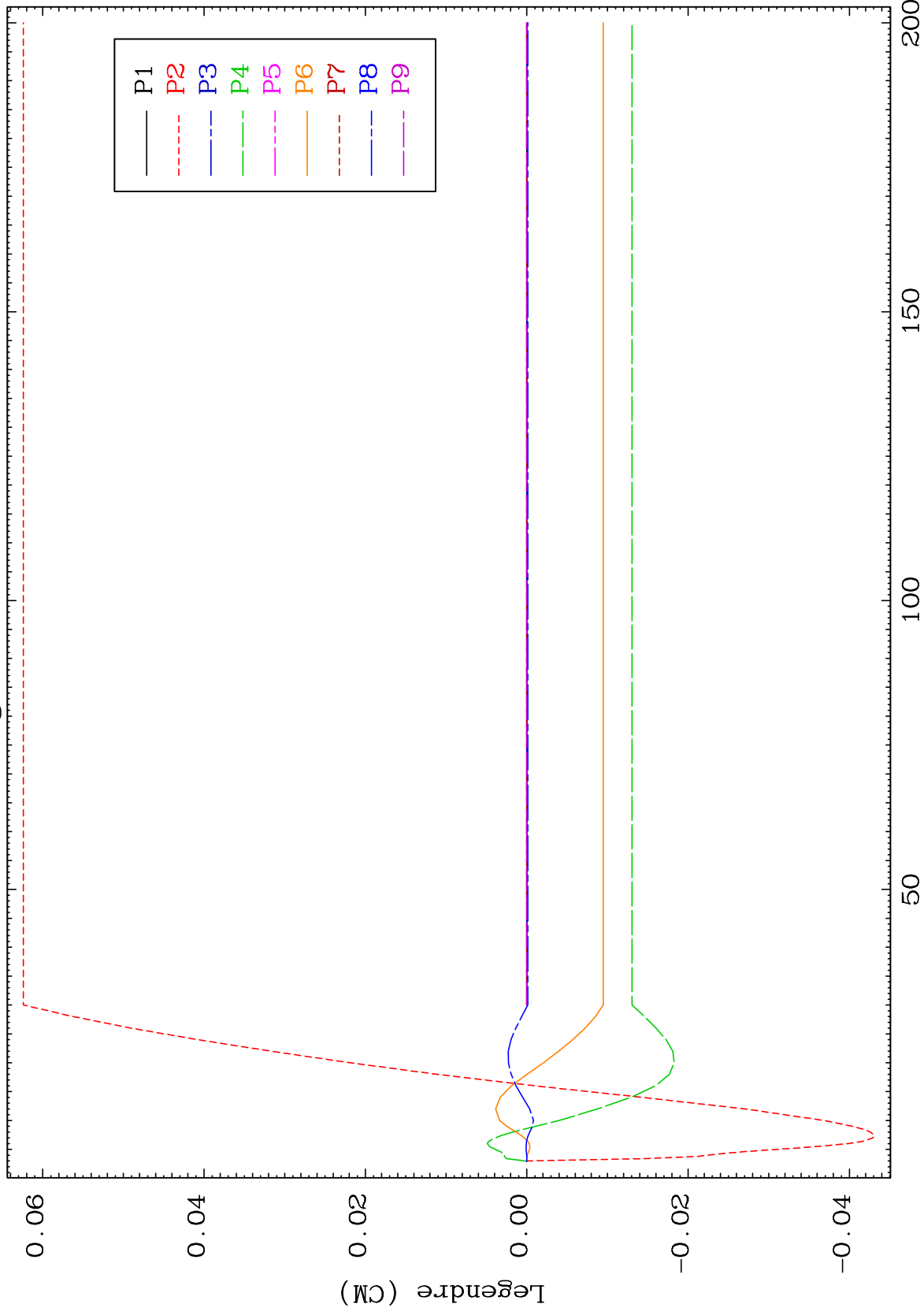
64-Gd-148



MAT 6413

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

64-Gd-148



111

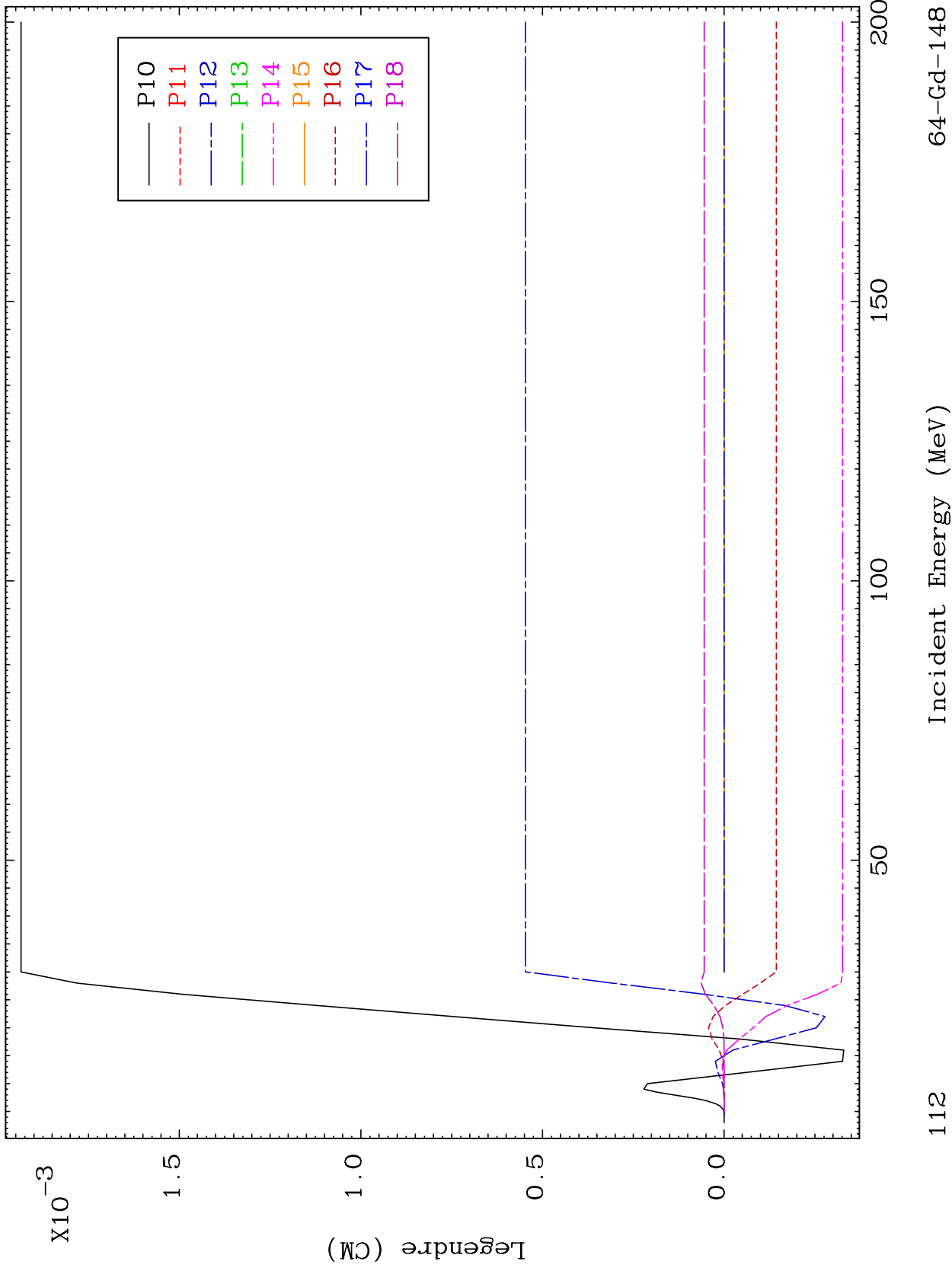
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

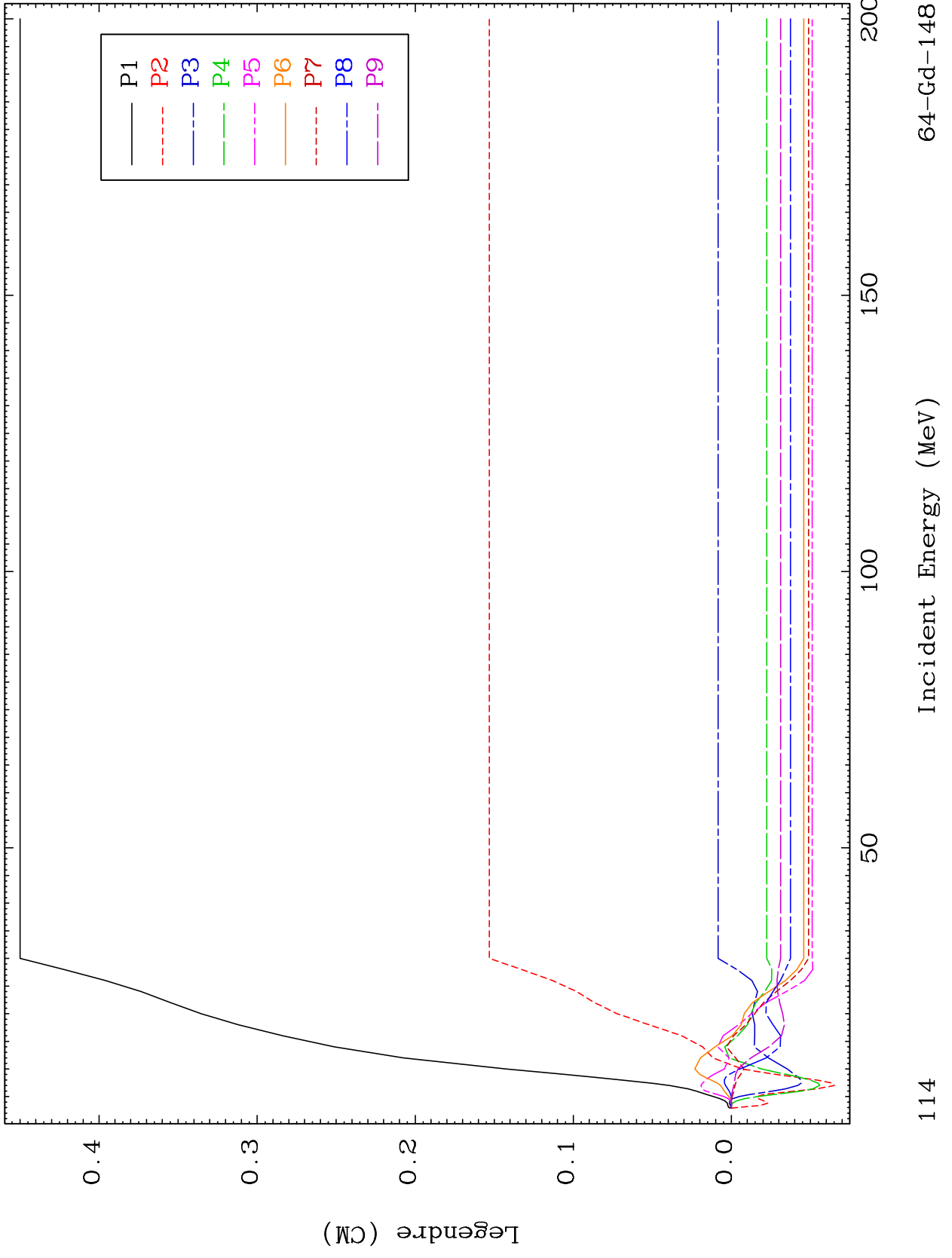
64-Gd-148



MAT 6413

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

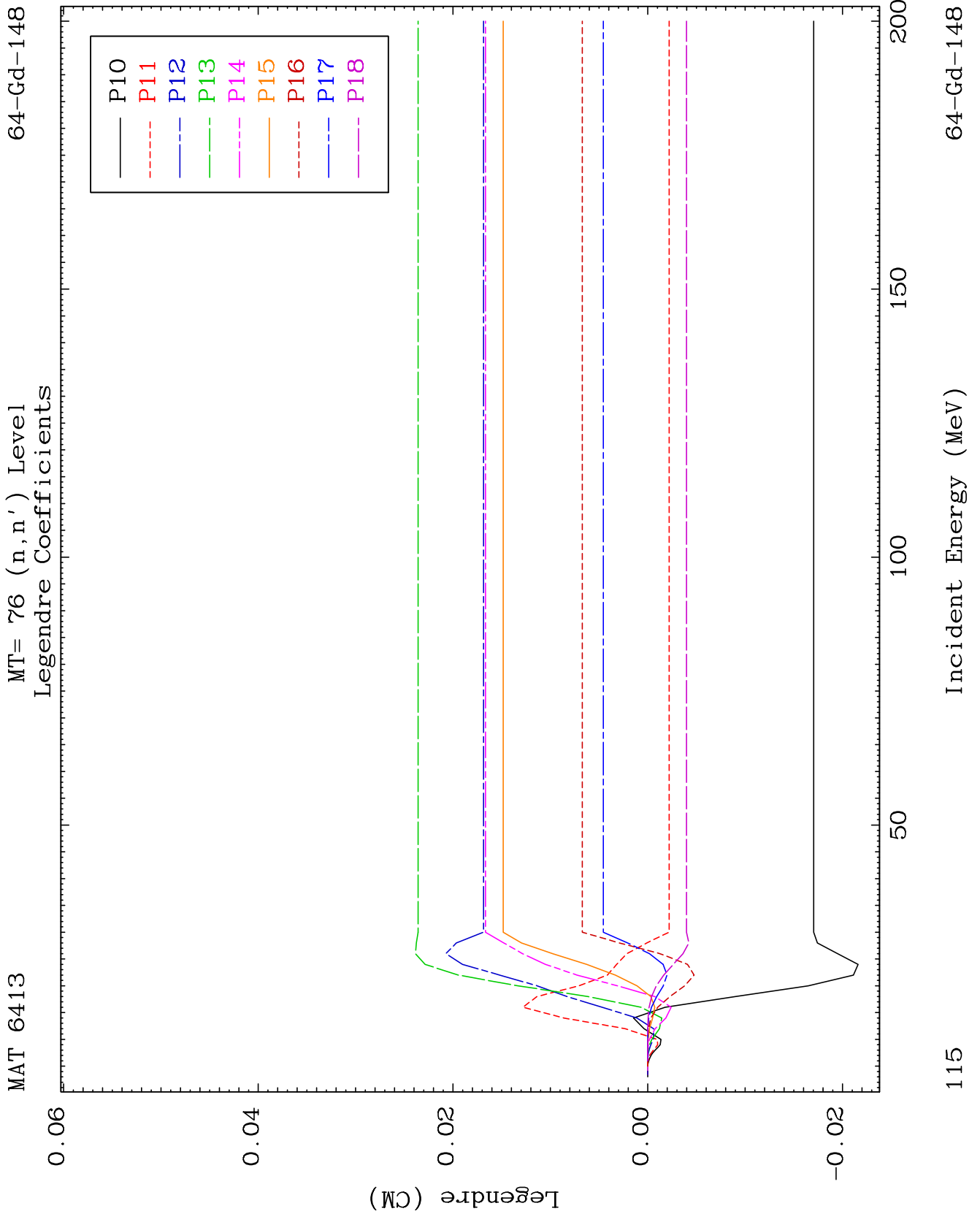
64-Gd-148



114

Incident Energy (MeV)

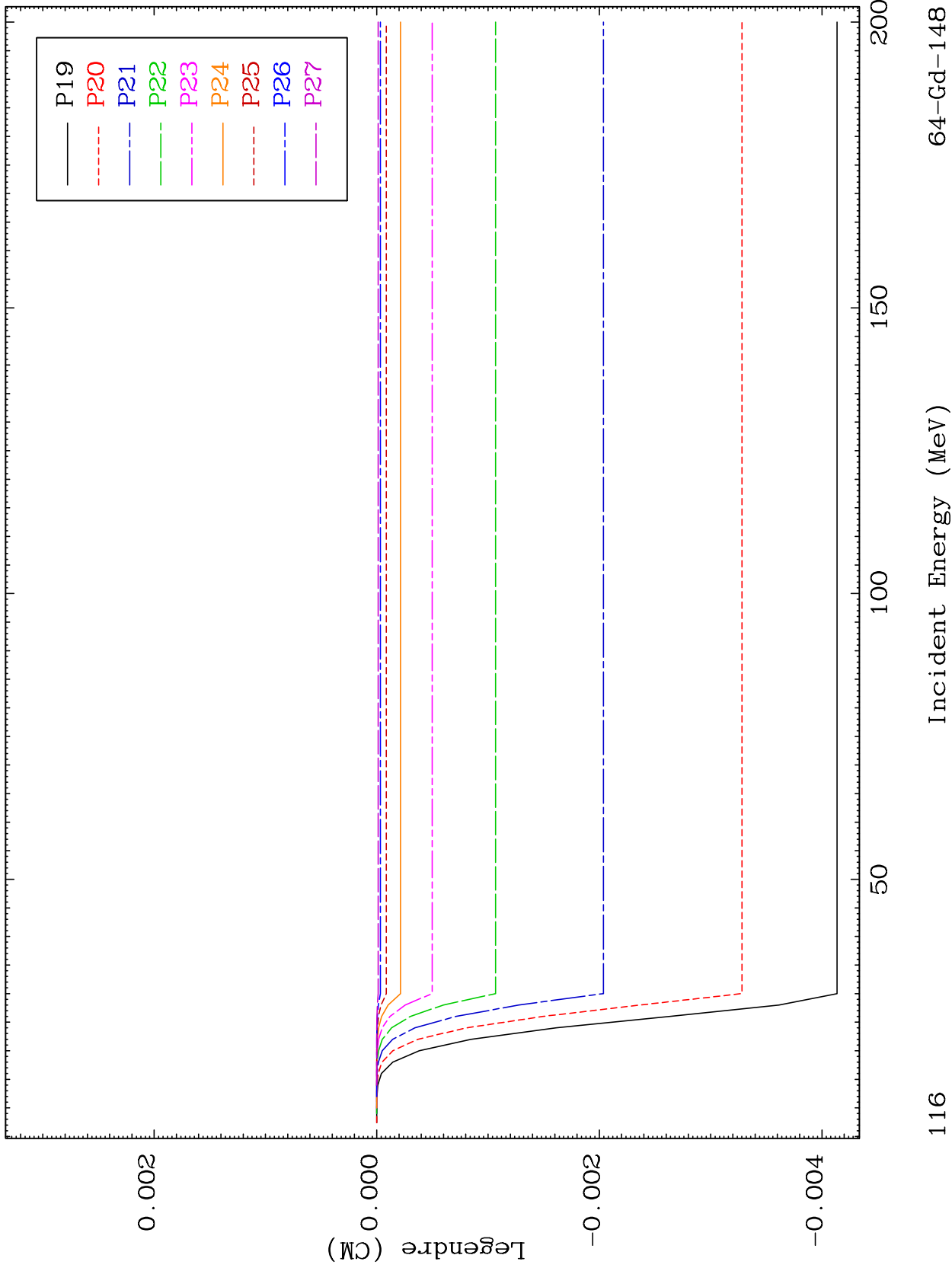
64-Gd-148

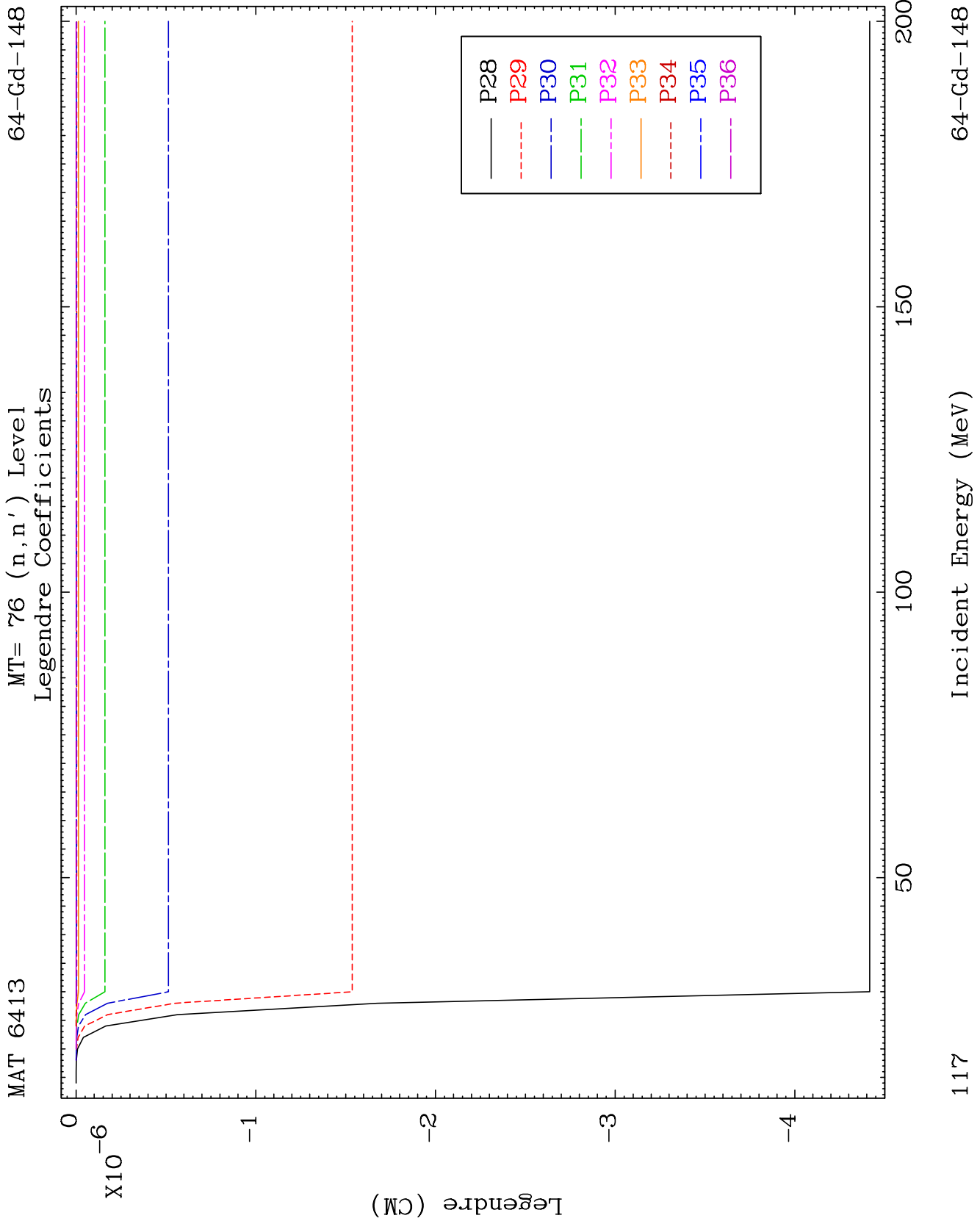


MAT 6413

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

64-Gd-148

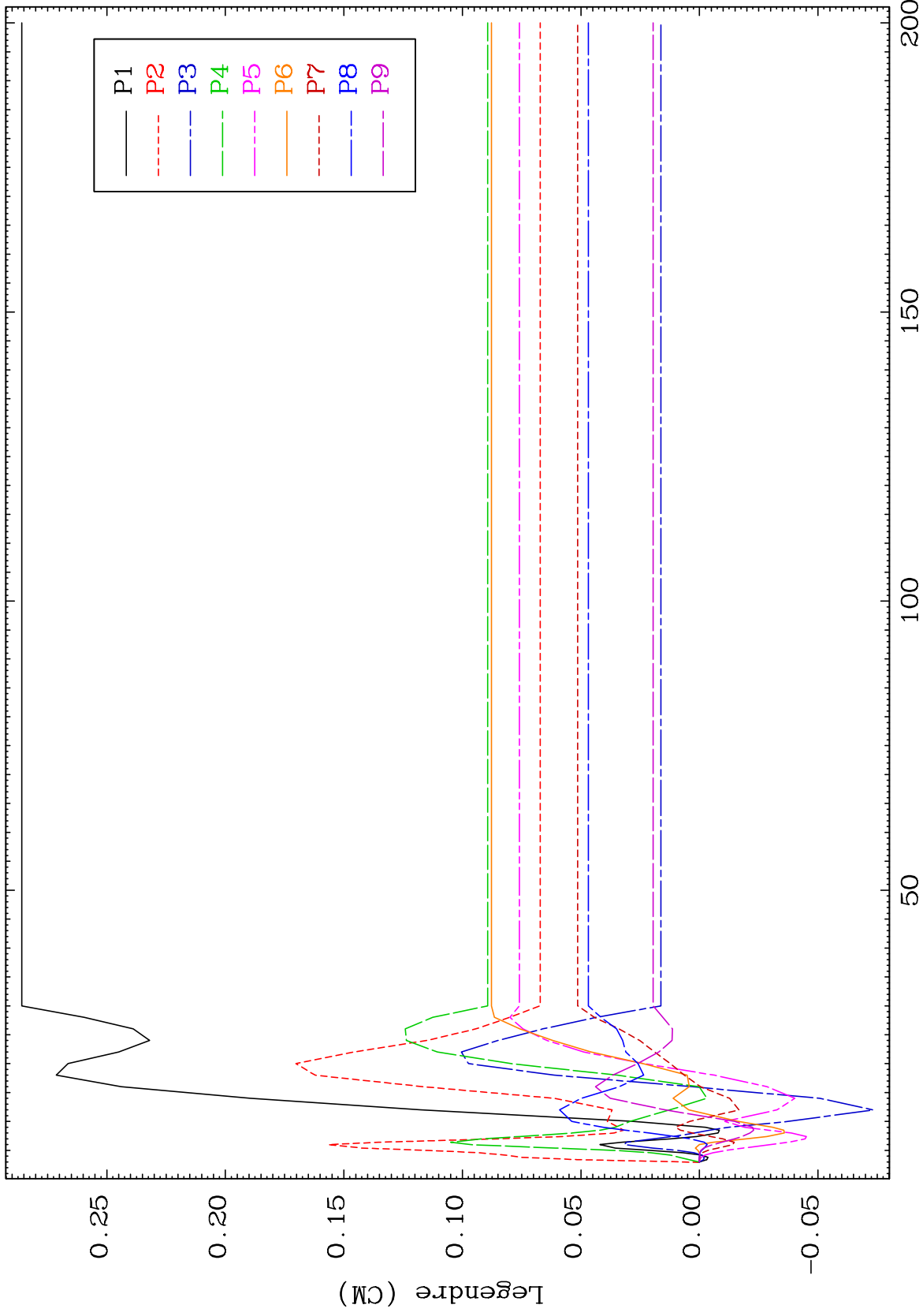




MAT 6413

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

64-Gd-148



118

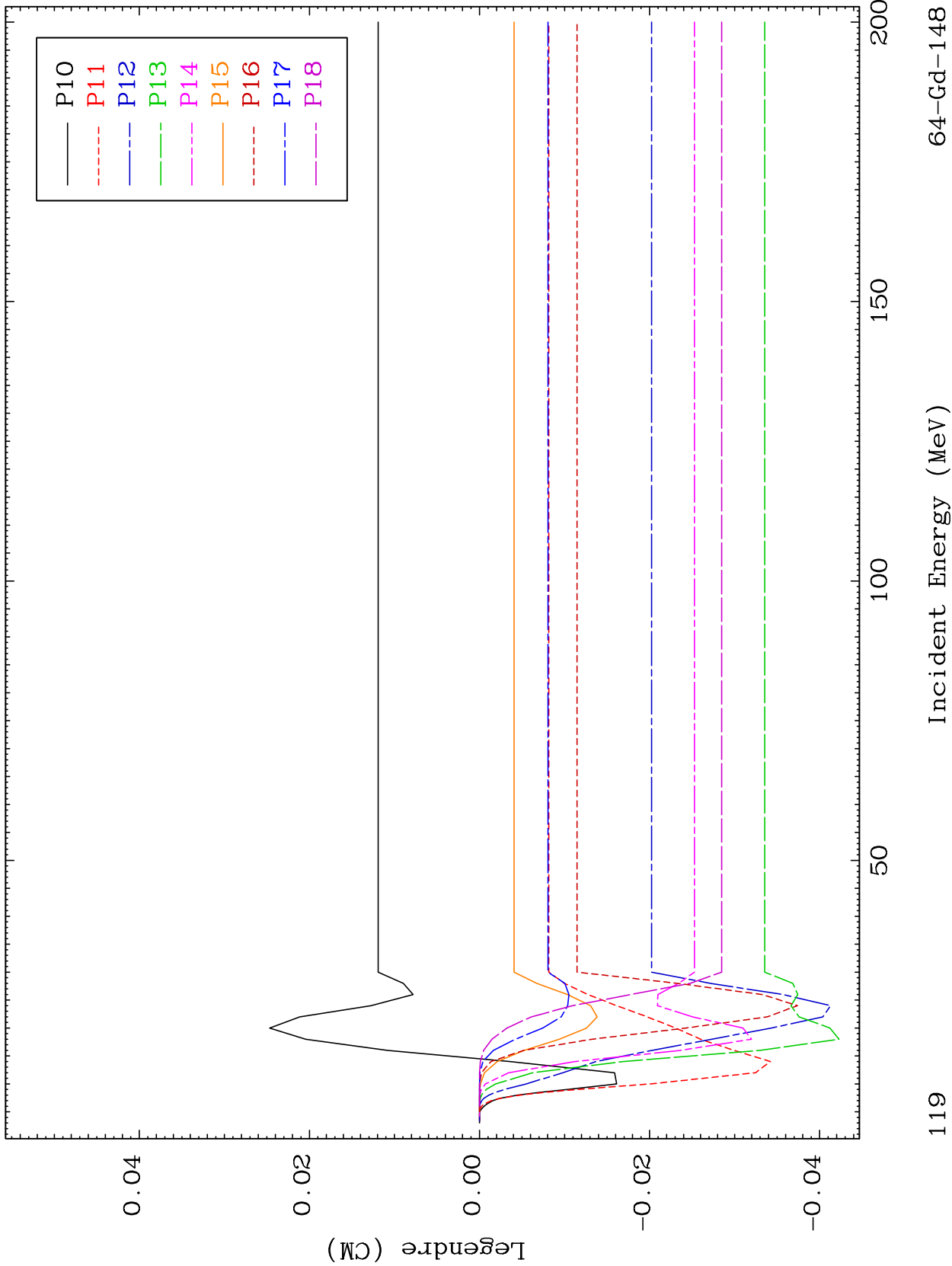
Incident Energy (MeV)

64-Gd-148

MAT 6413

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

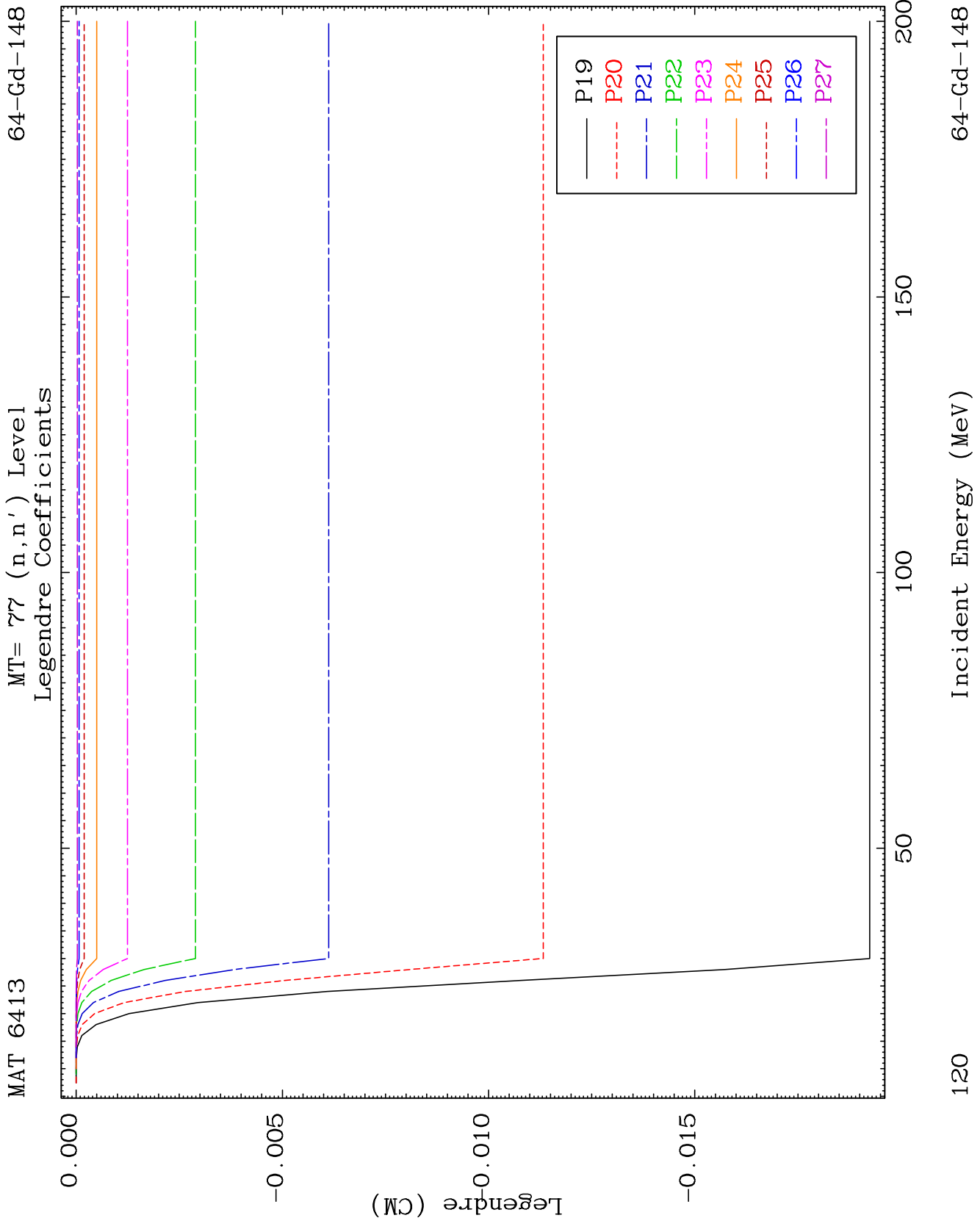
64-Gd-148

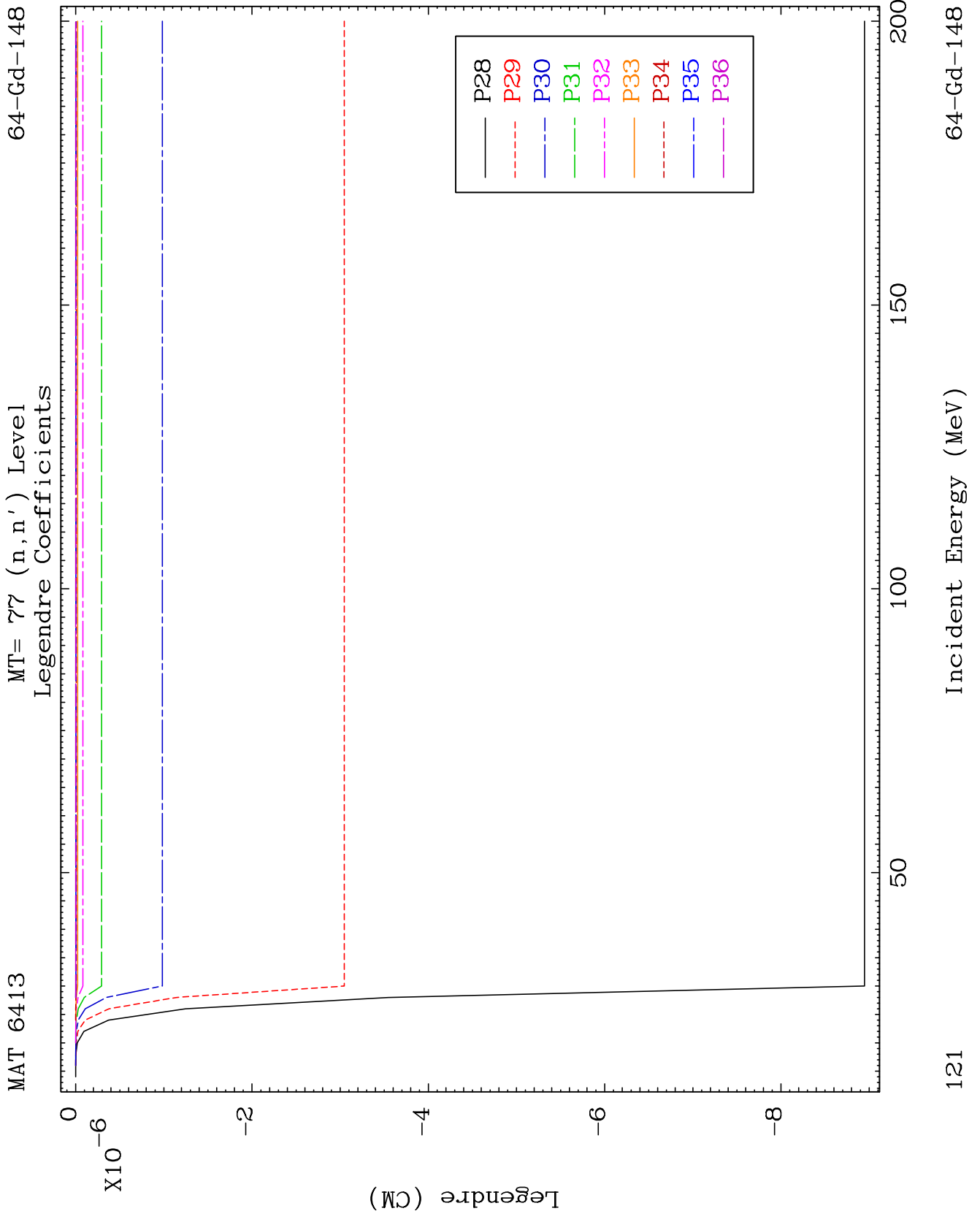


119

Incident Energy (MeV)

64-Gd-148

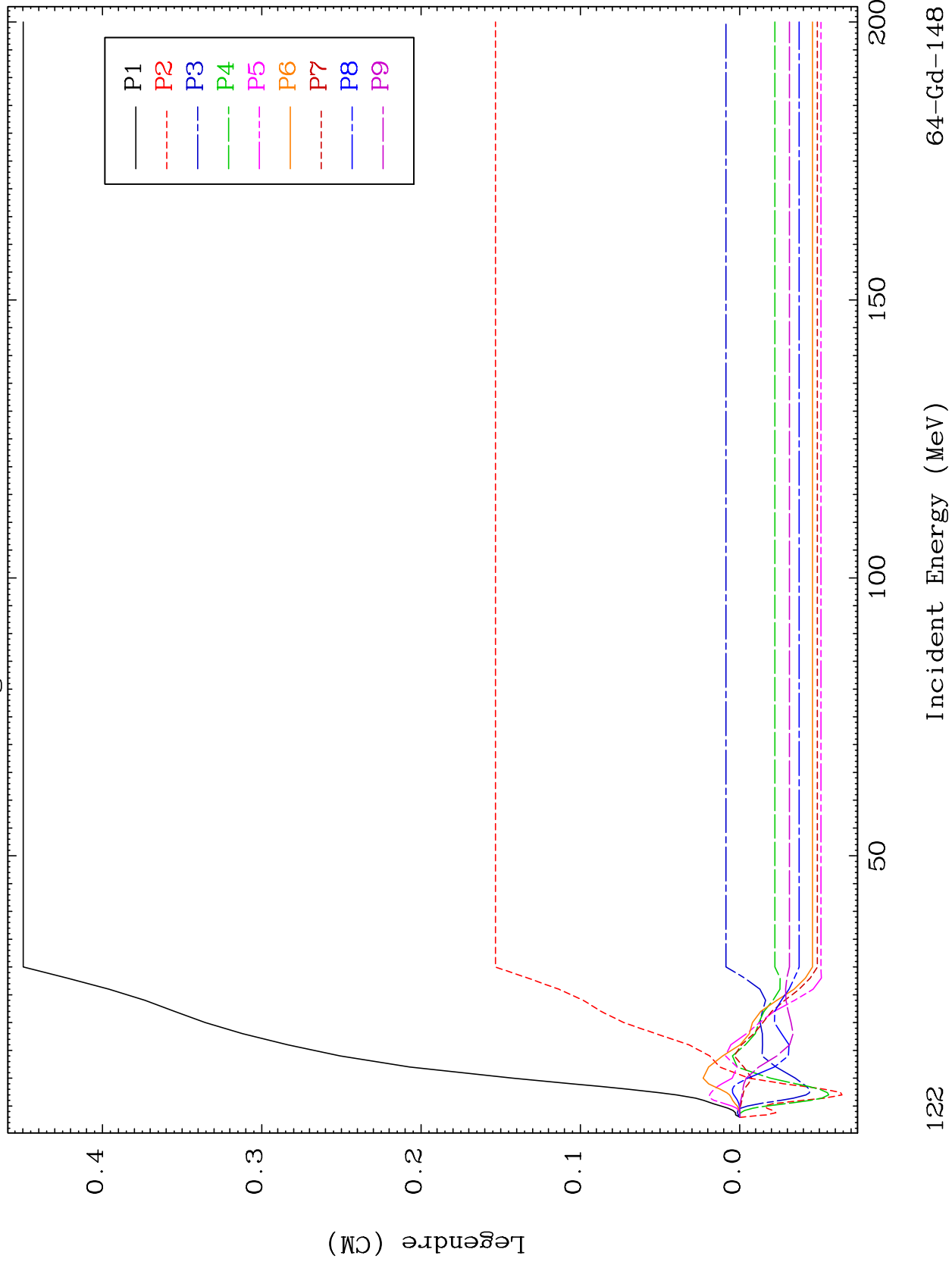




MAT 6413

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

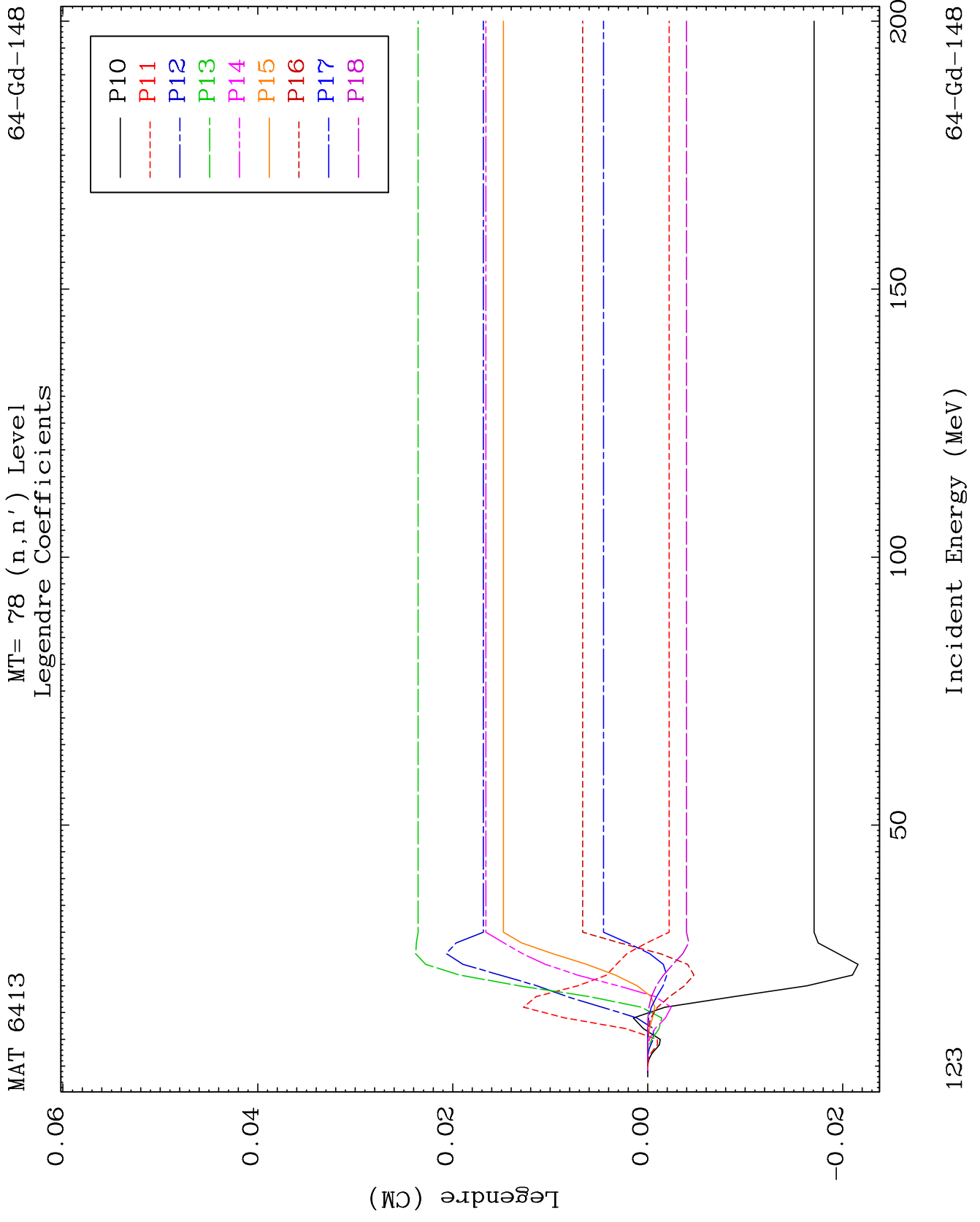
64-Gd-148



122

Incident Energy (MeV)

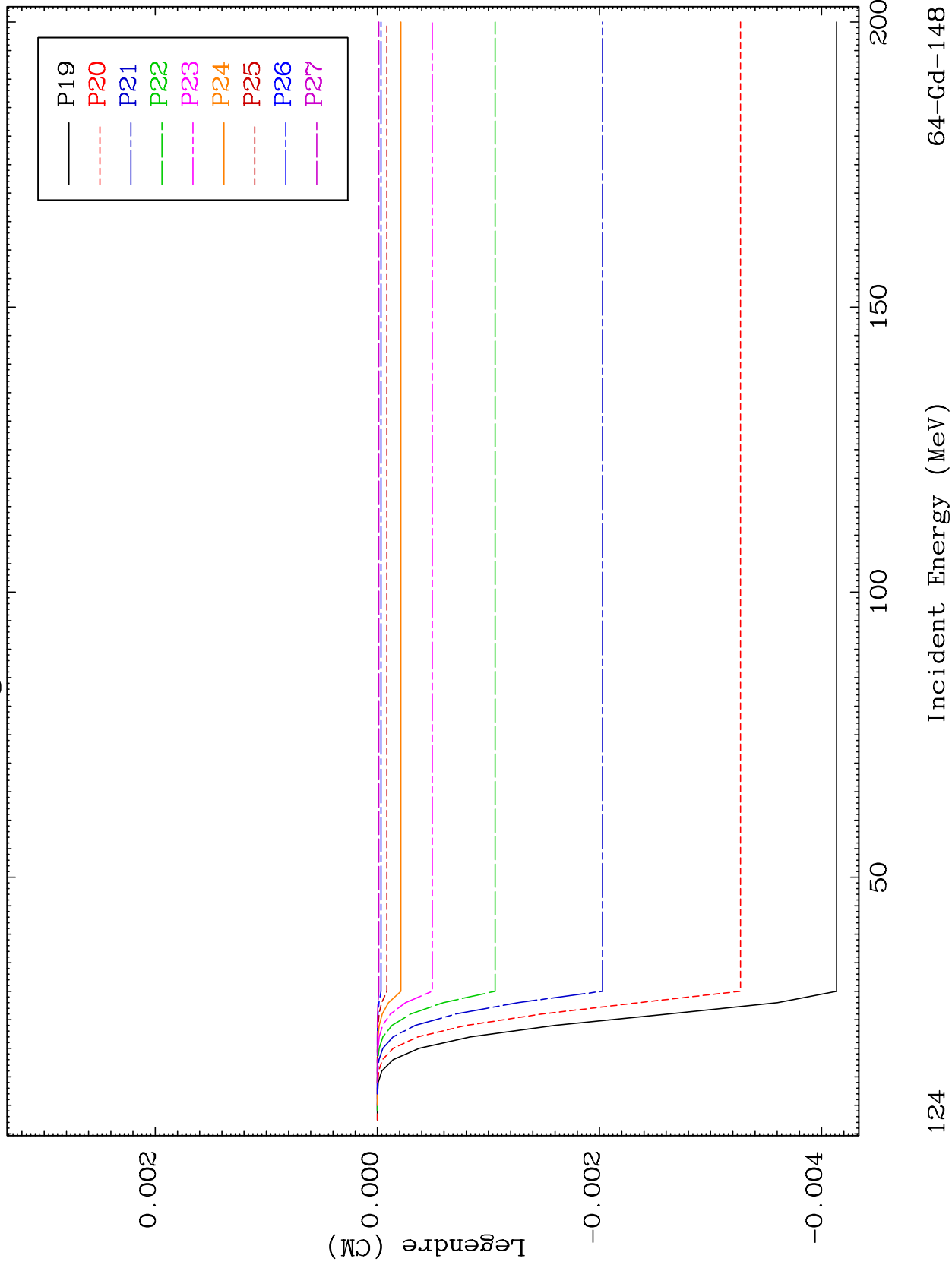
64-Gd-148



MAT 6413

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

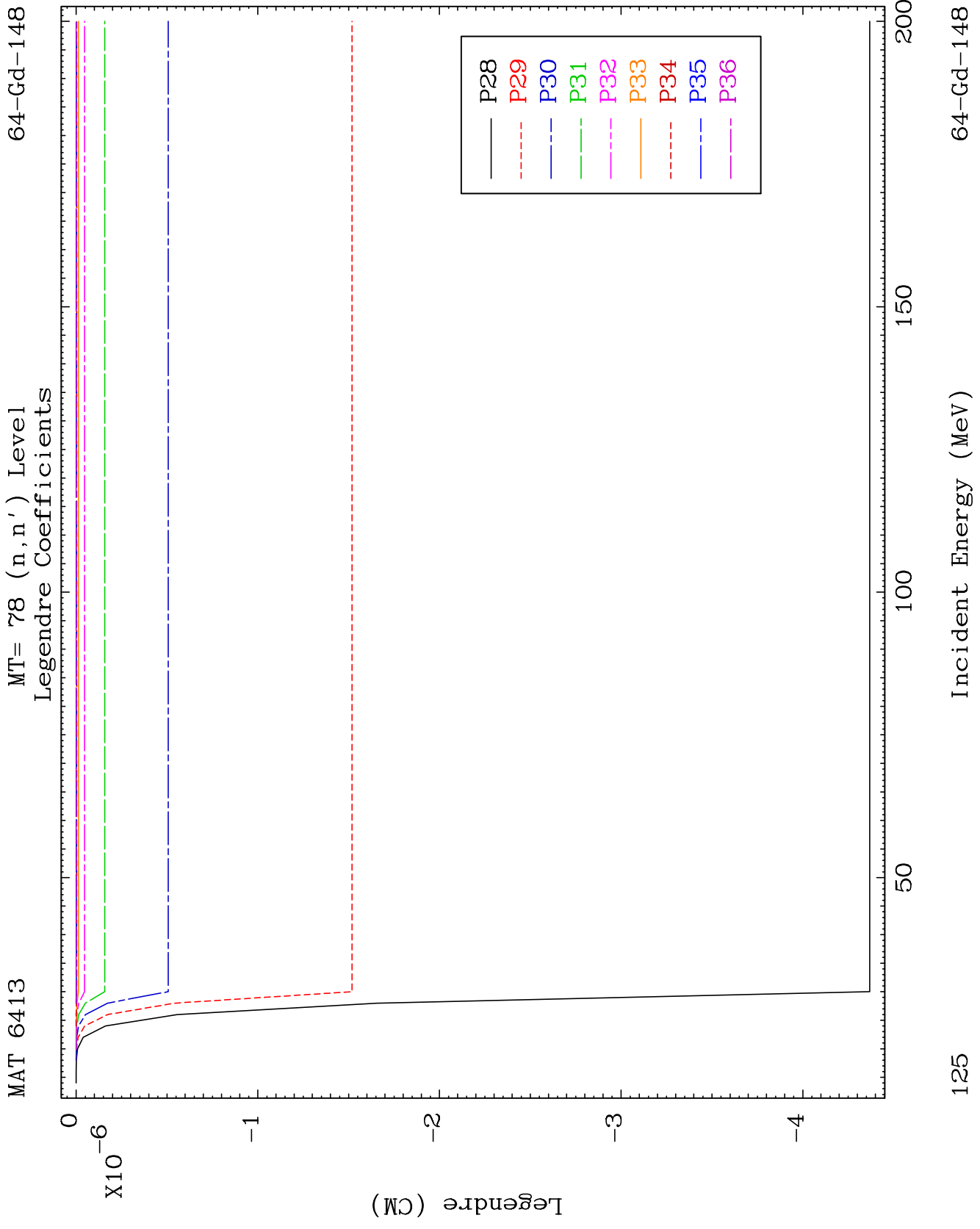
64-Gd-148



124

Incident Energy (MeV)

64-Gd-148

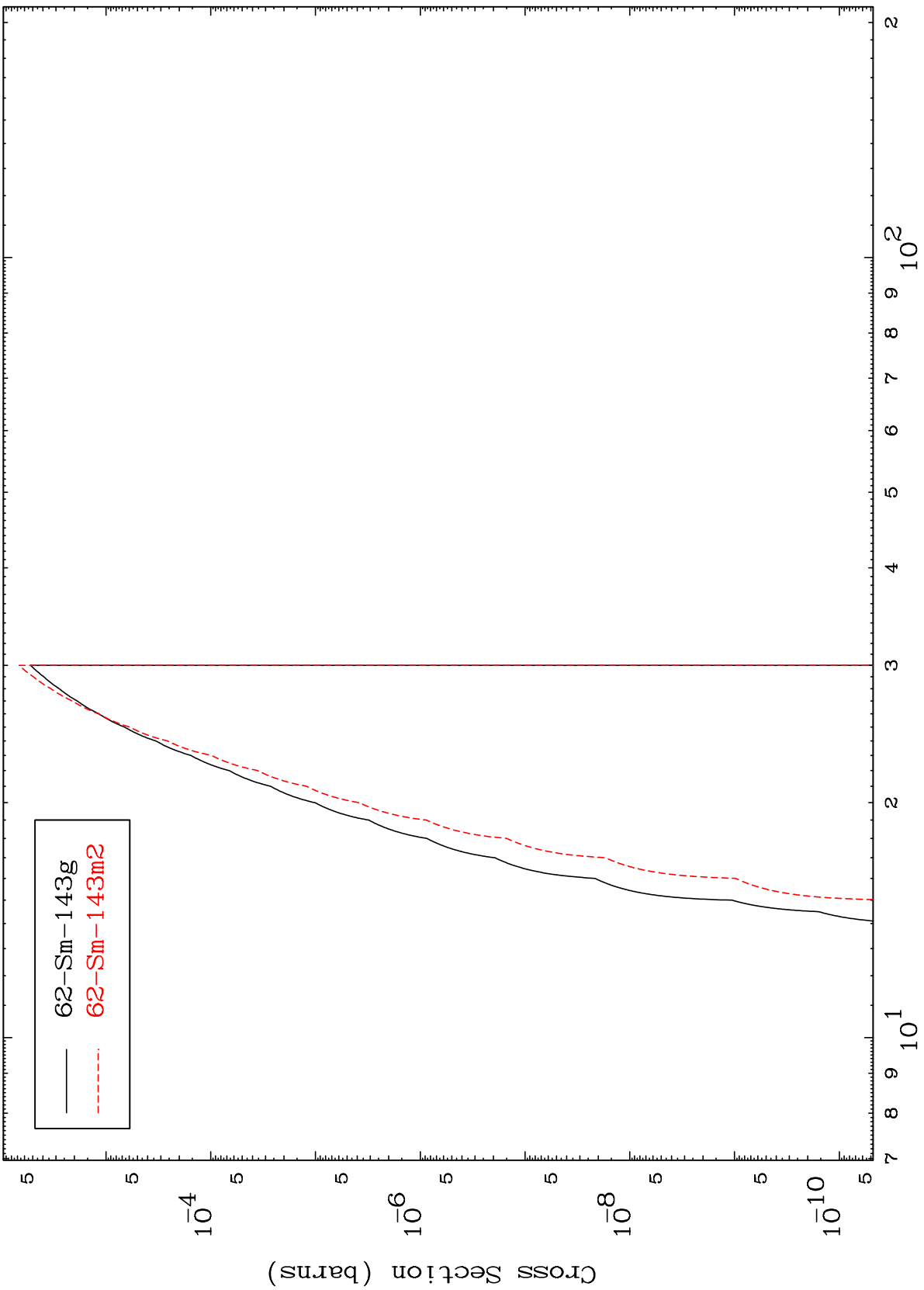


MAT 6413

(n,2n) α

64-Gd-148

Radionuclide Production Cross Section



126

Incident Energy (MeV)

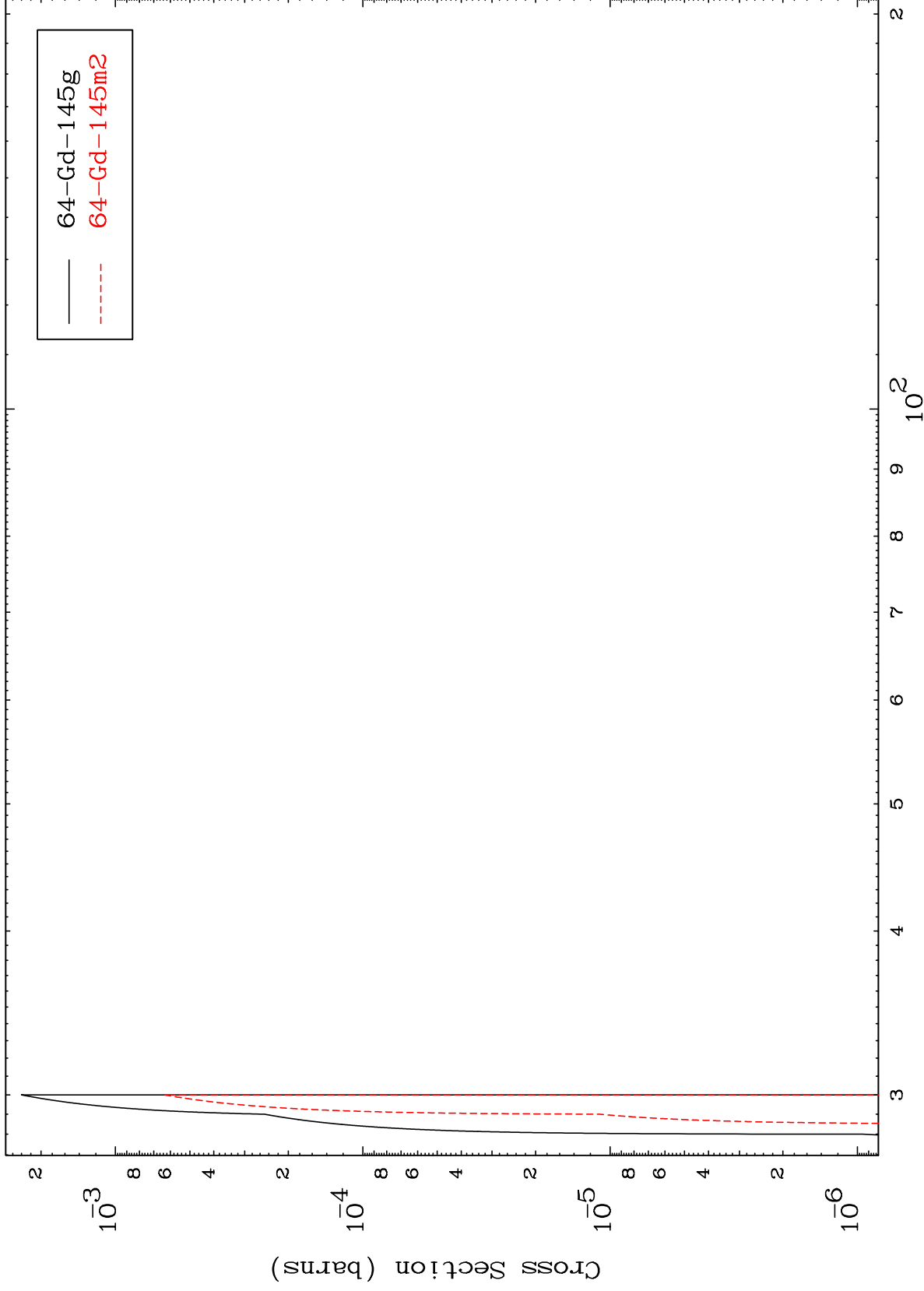
64-Gd-148

MAT 6413

(n,4n)

64-Gd-148

Radionuclide Production Cross Section



127

Incident Energy (MeV)

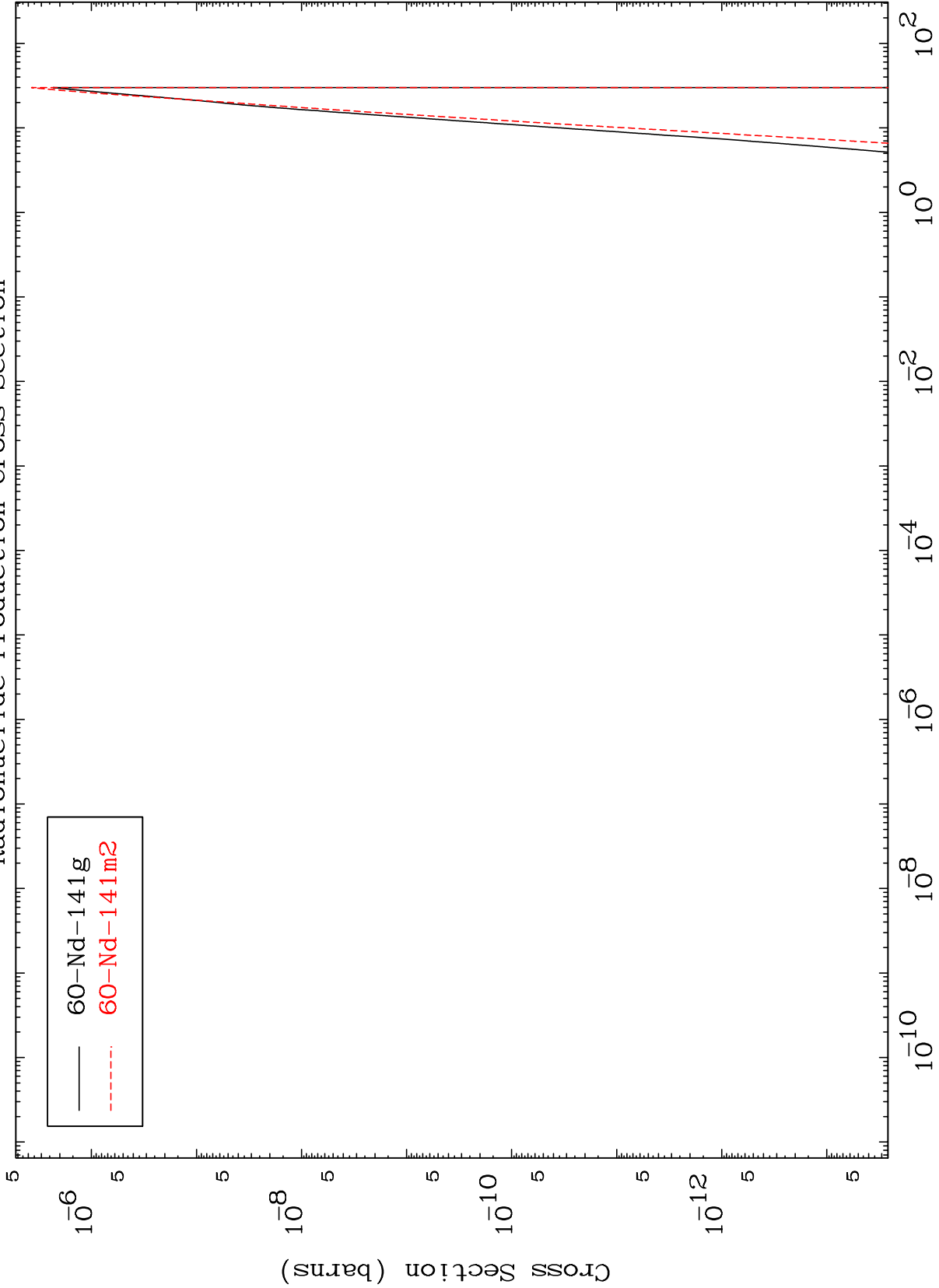
64-Gd-148

MAT 6413

(n,2α)

64-Gd-148

Radionuclide Production Cross Section



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