

Program EVALPLOT
(Version 2021-1)

by

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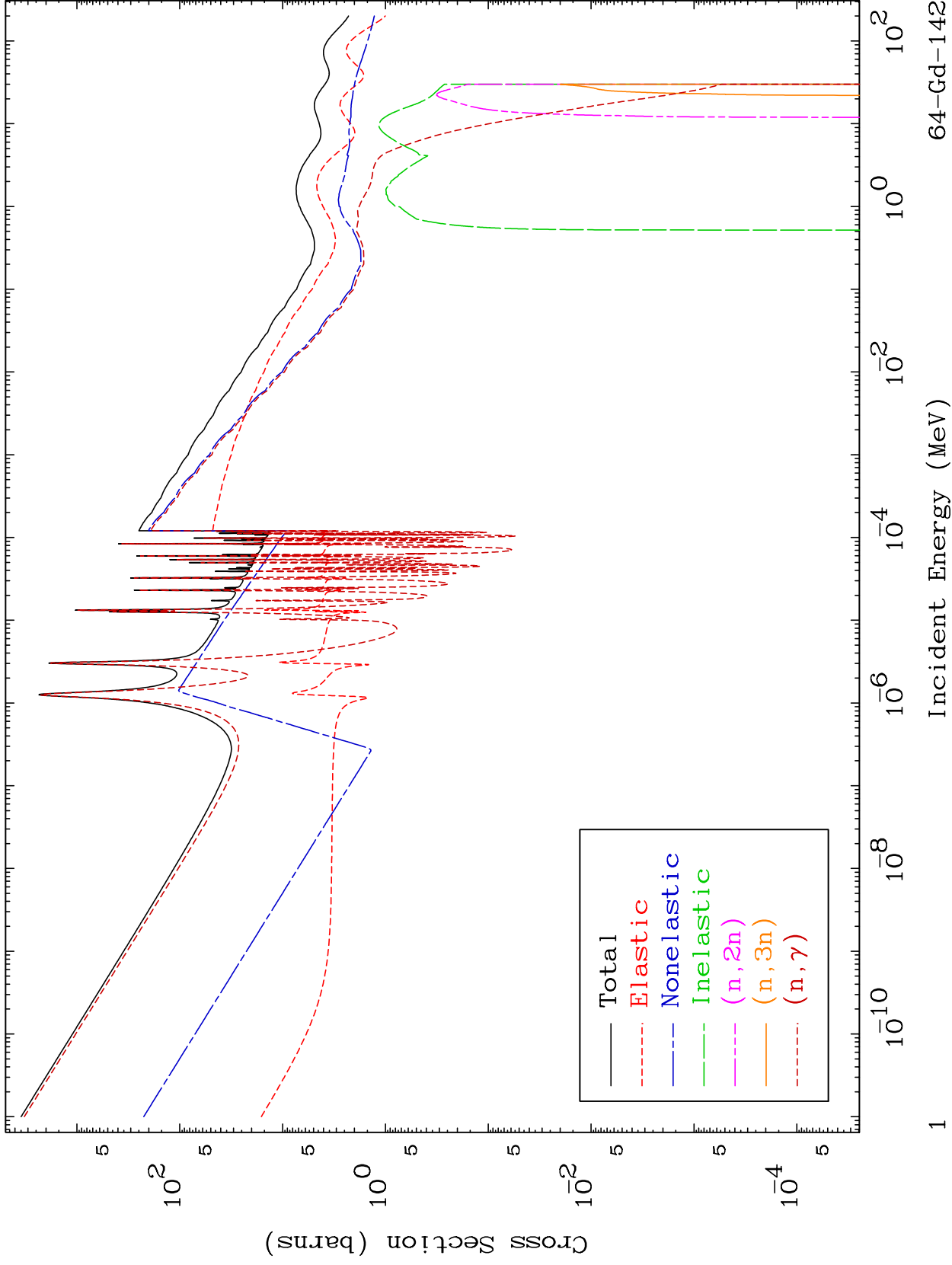
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Press Mouse Button to Start

MAT 6395

Neutron Major
293 Kelvin Cross Sections

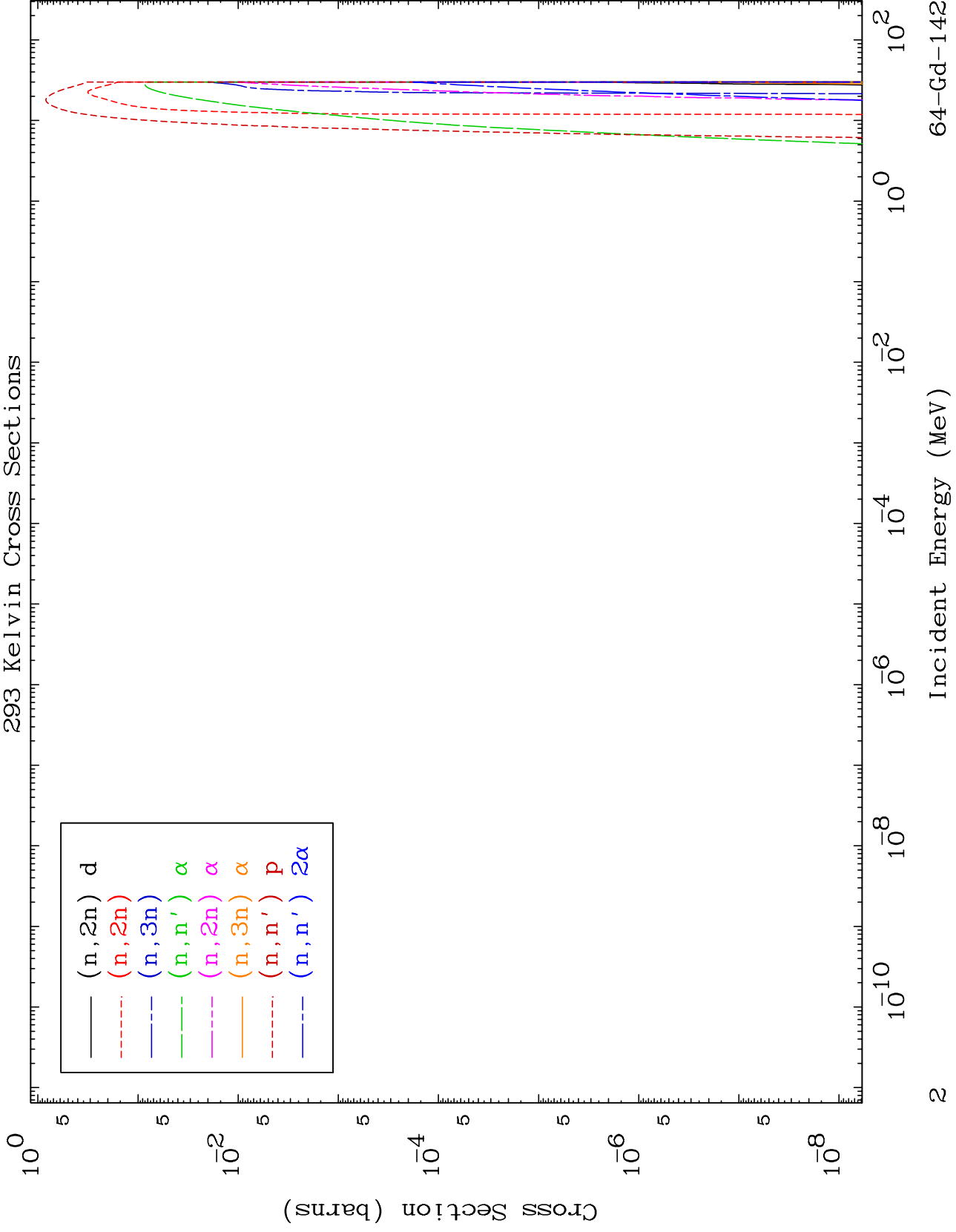
64-Gd-142



MAT 6395

Neutron Absorption
293 Kelvin Cross Sections

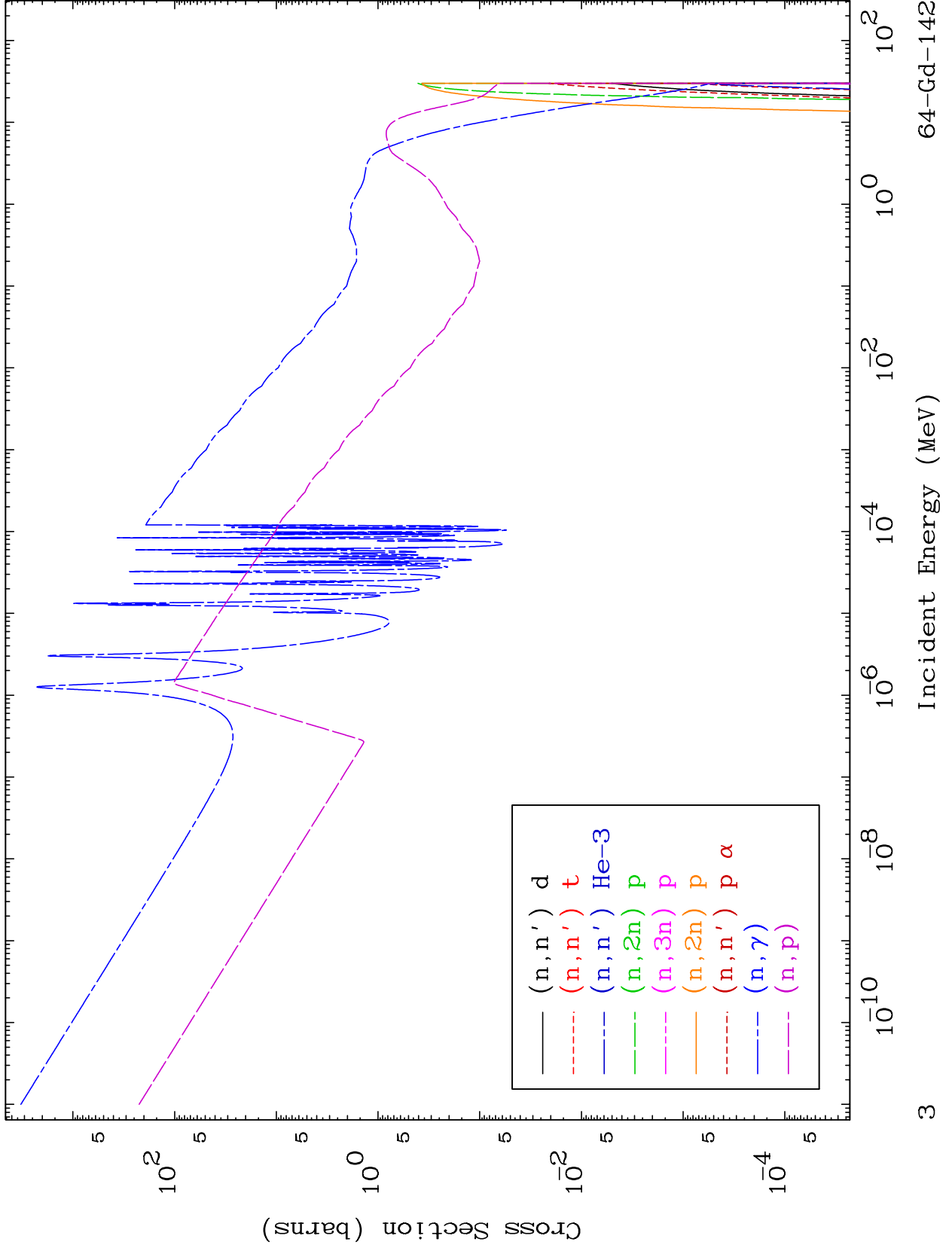
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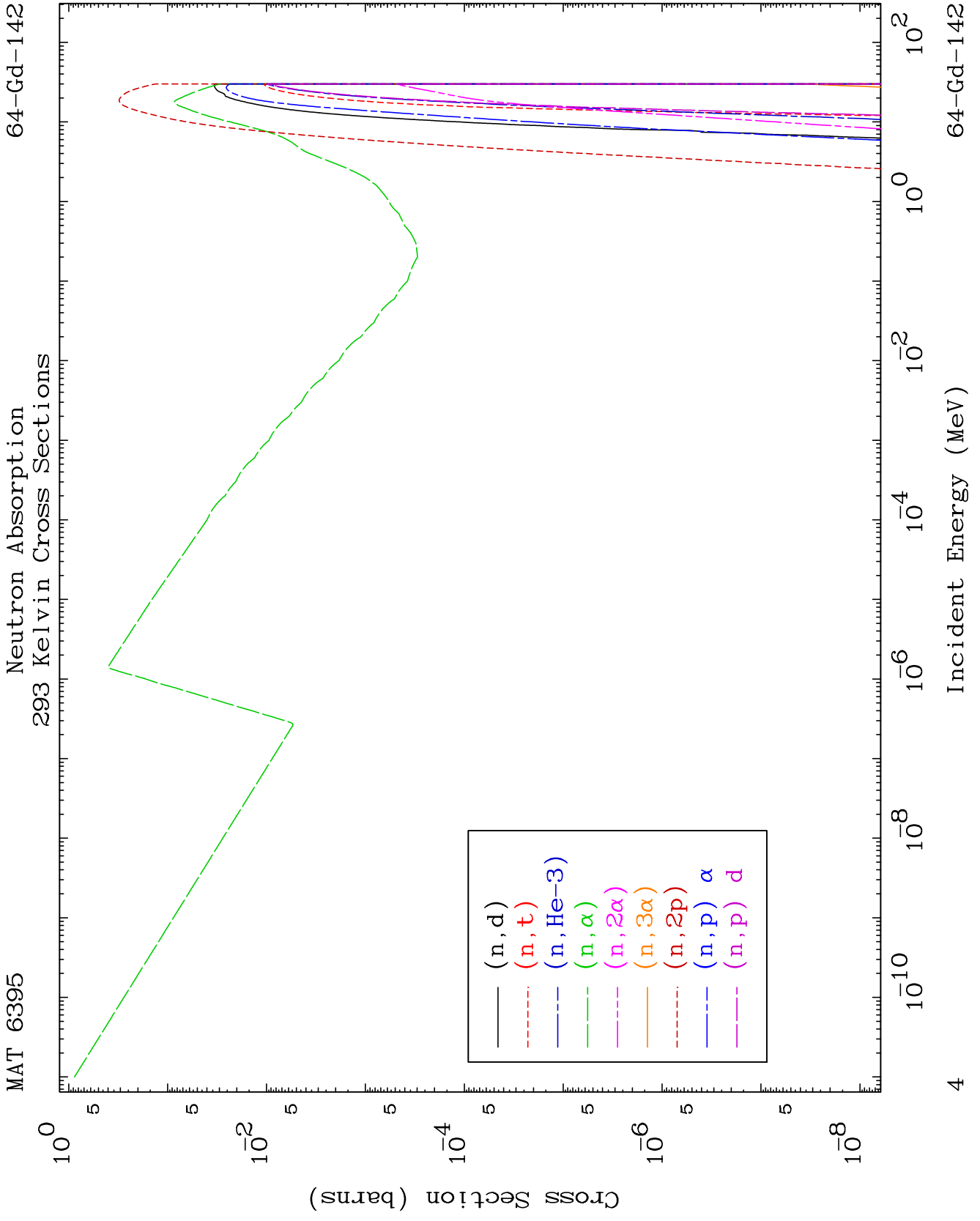


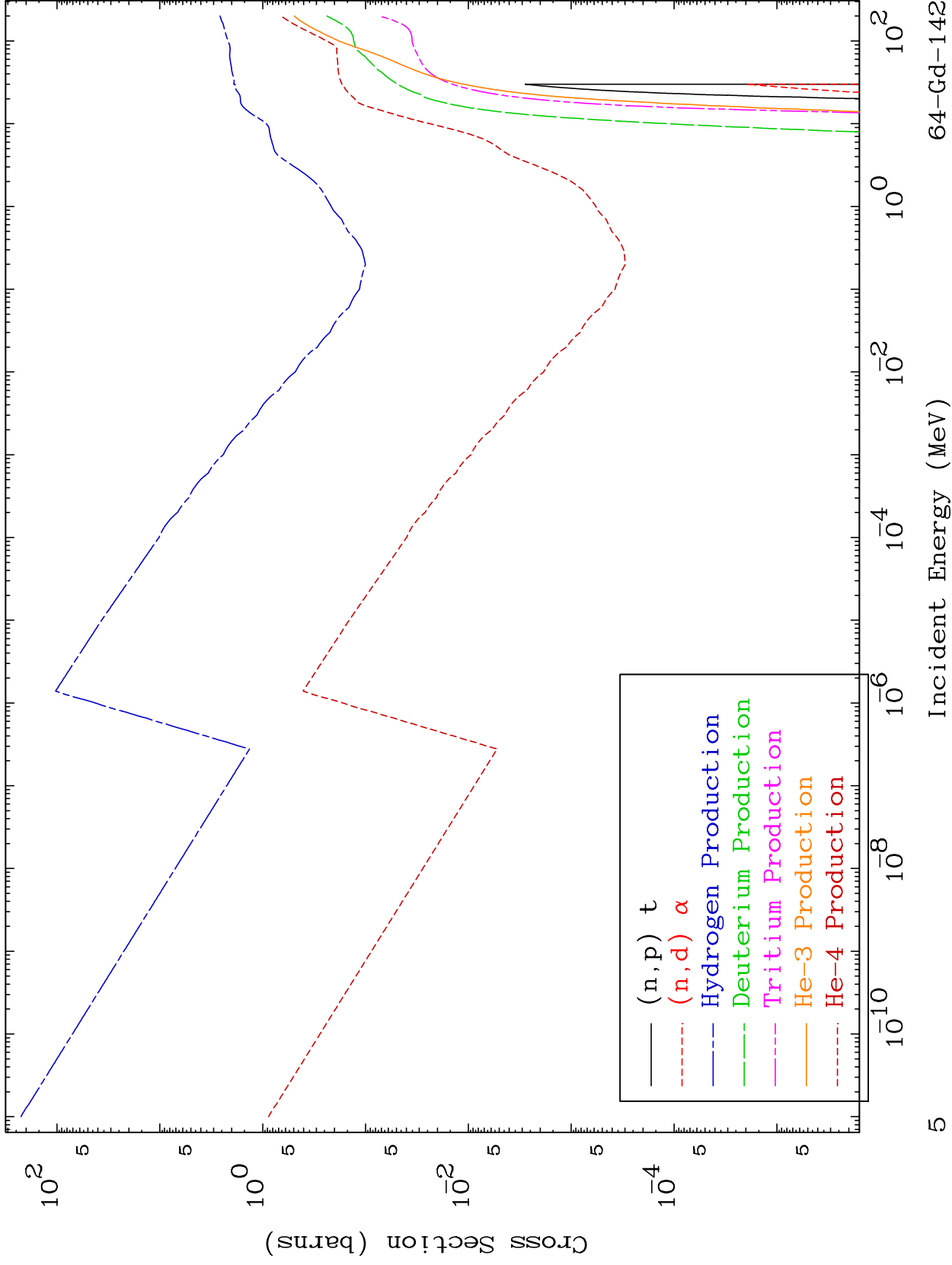
MAT 6395

Neutron Absorption
293 Kelvin Cross Sections

64-Gd-142



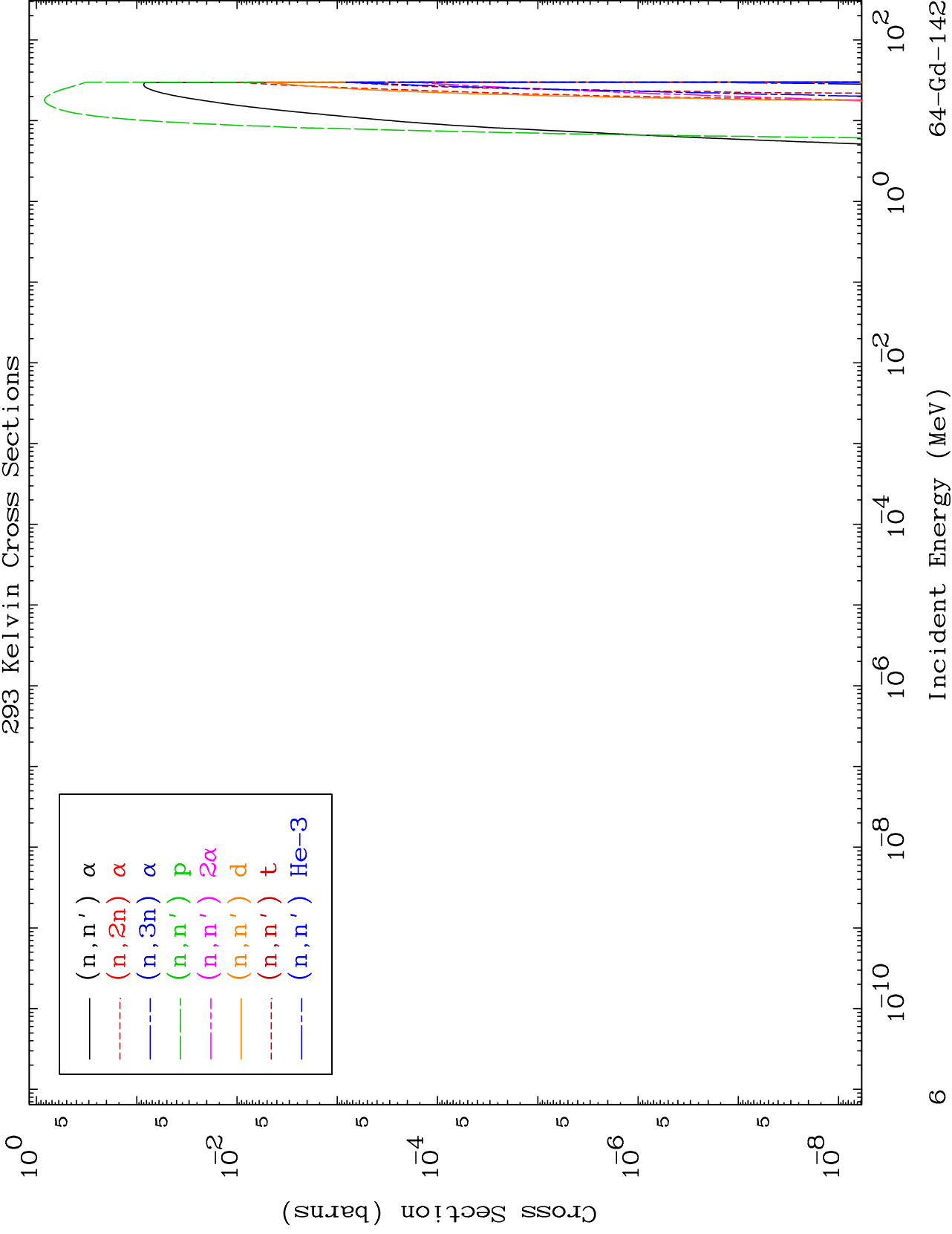




MAT 6395

Charged Particle
293 Kelvin Cross Sections

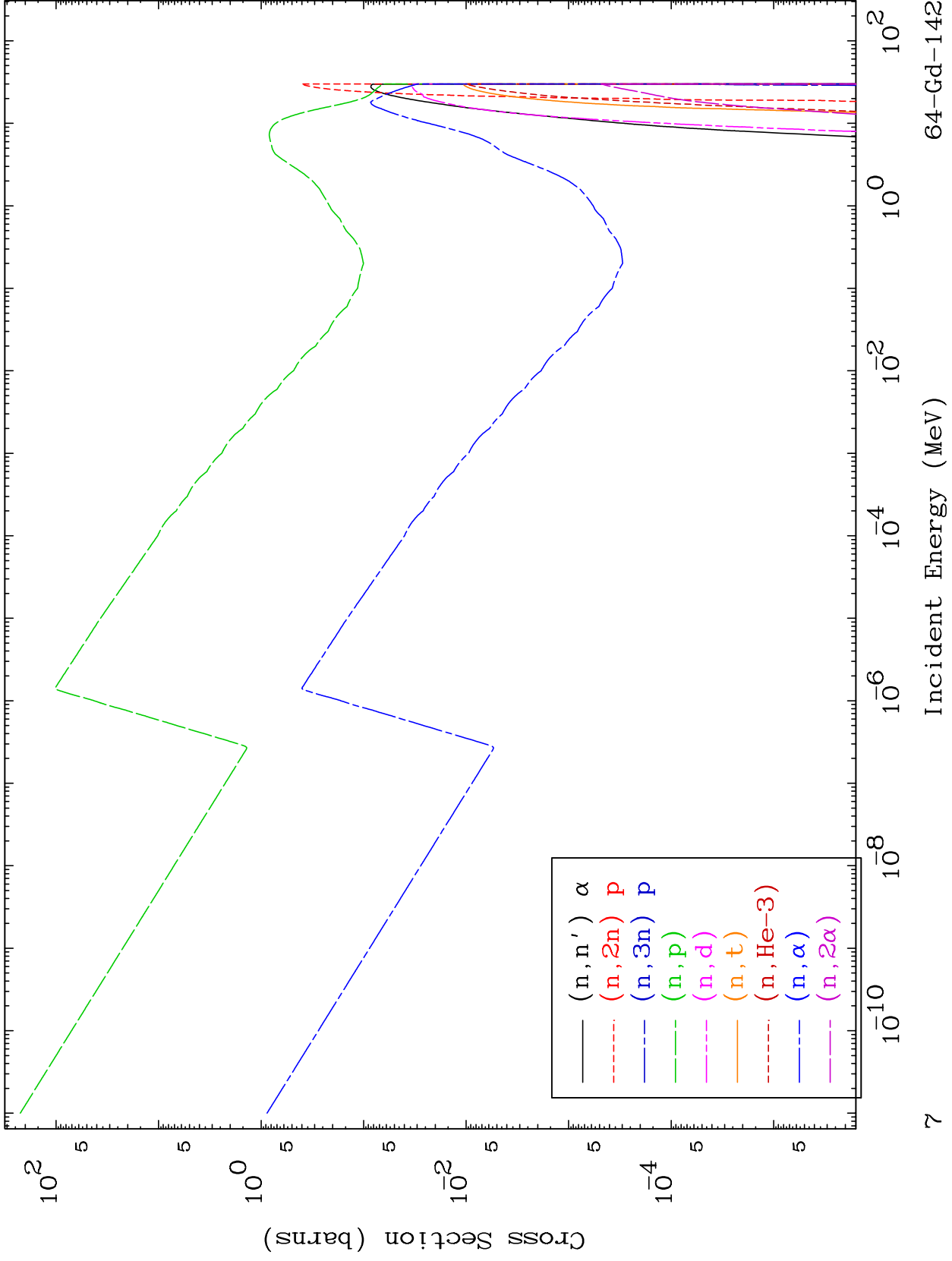
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MAT 6395

Charged Particle
293 Kelvin Cross Sections

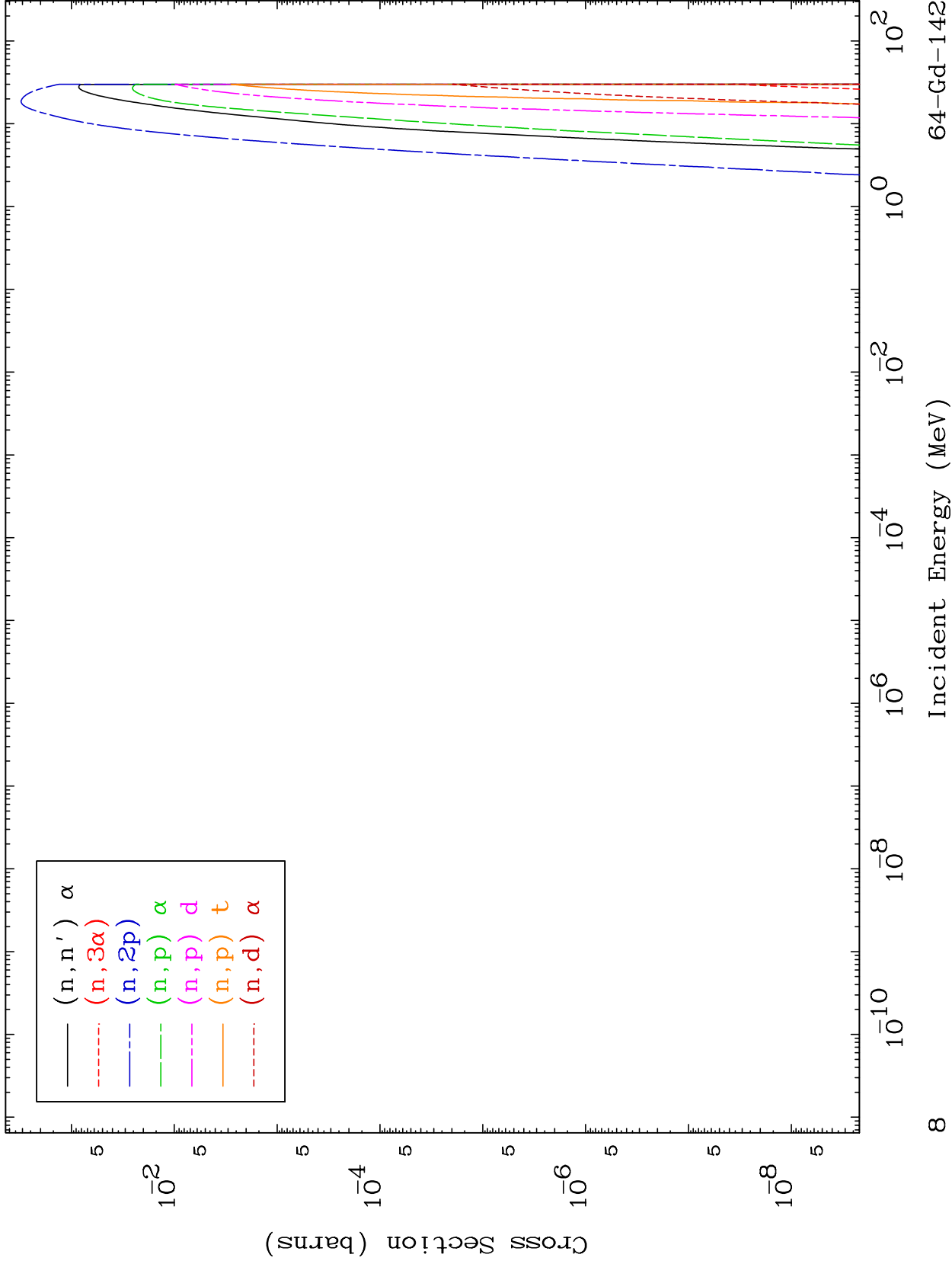
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MAT 6395

Charged Particle
293 Kelvin Cross Sections

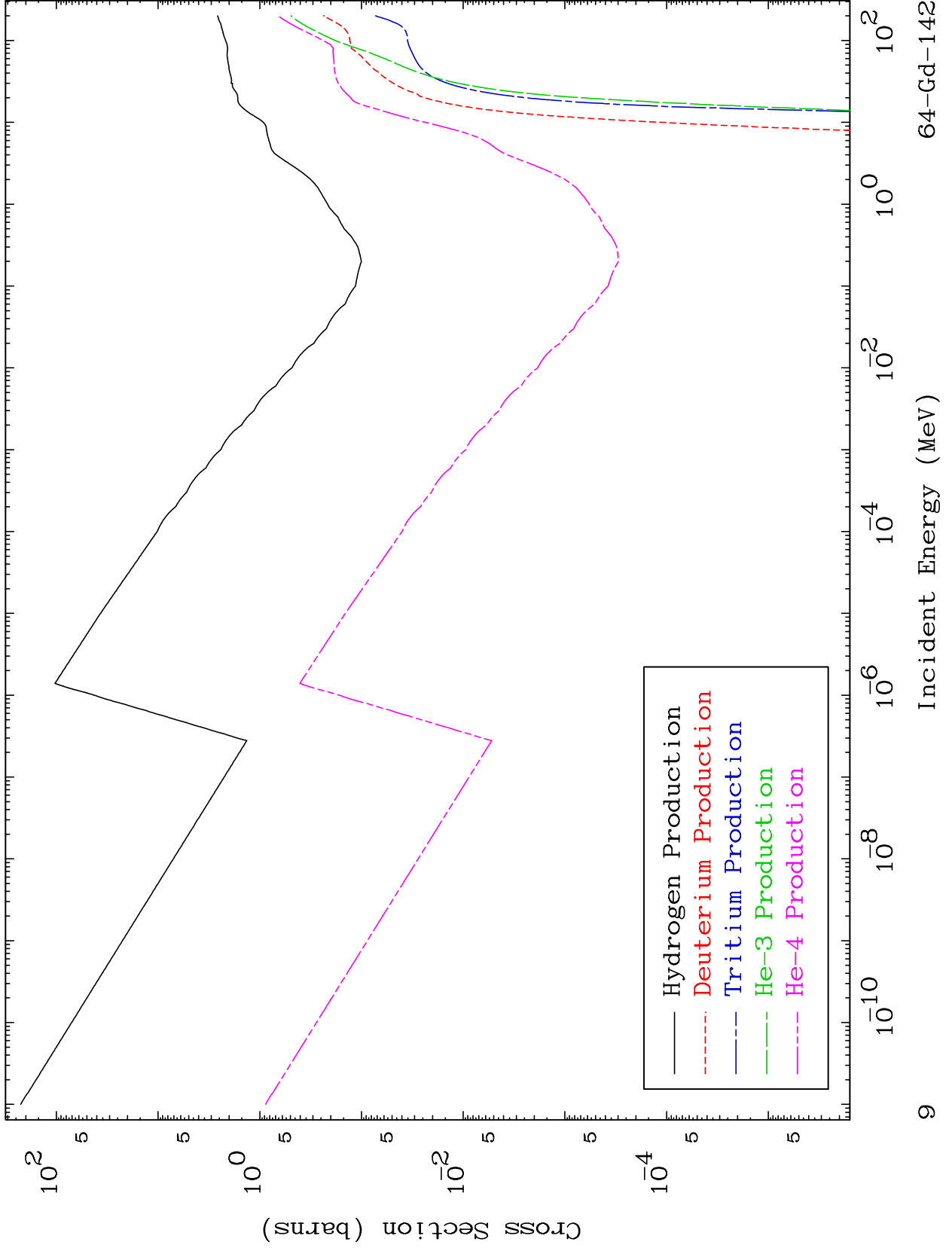
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MAT 6395

Particle Production
293 Kelvin Cross Sections

64-Gd-142

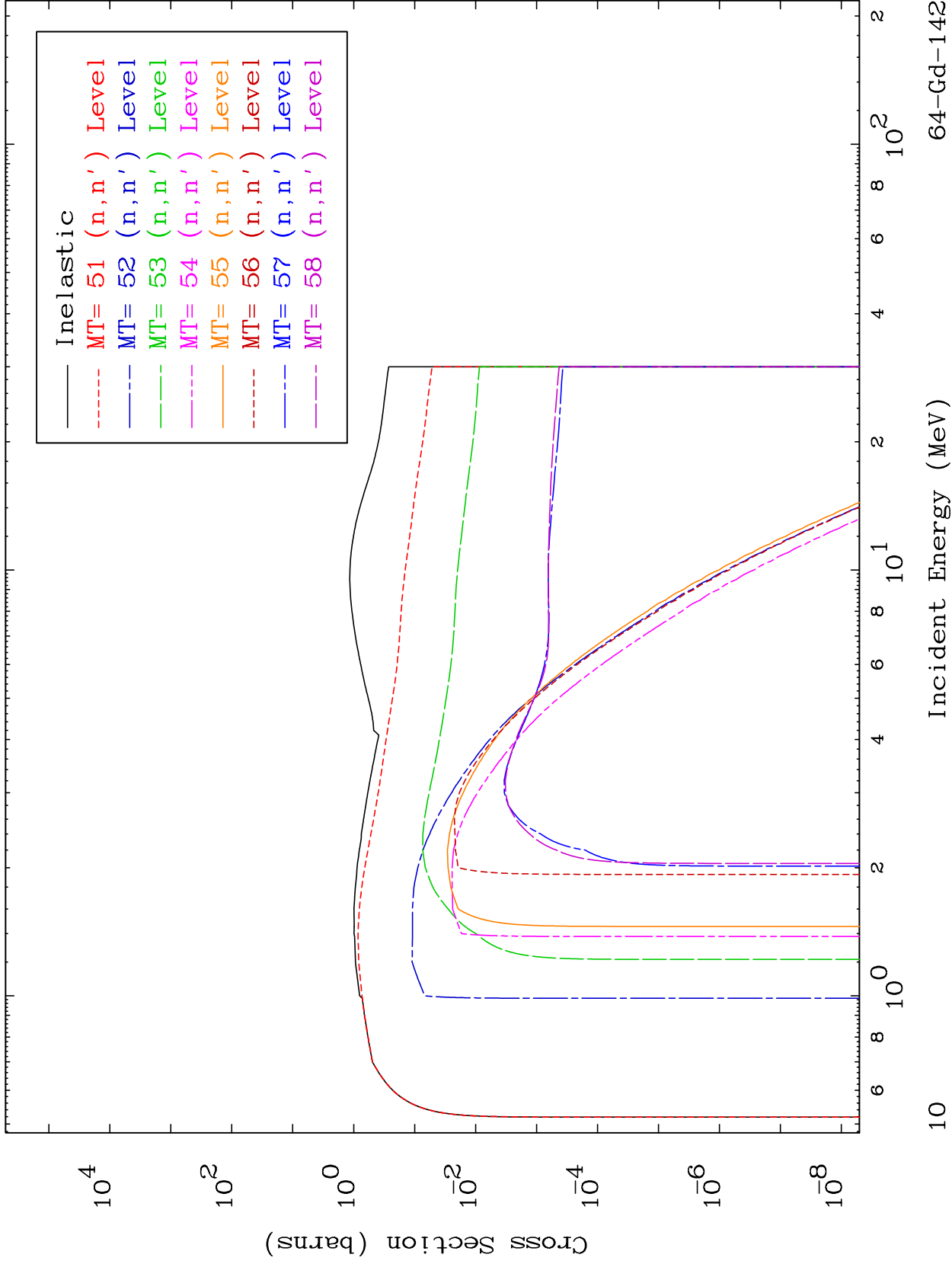


MAT 6395

(n,n') Levels

64-Gd-142

293 Kelvin Cross Sections



10

Incident Energy (MeV)

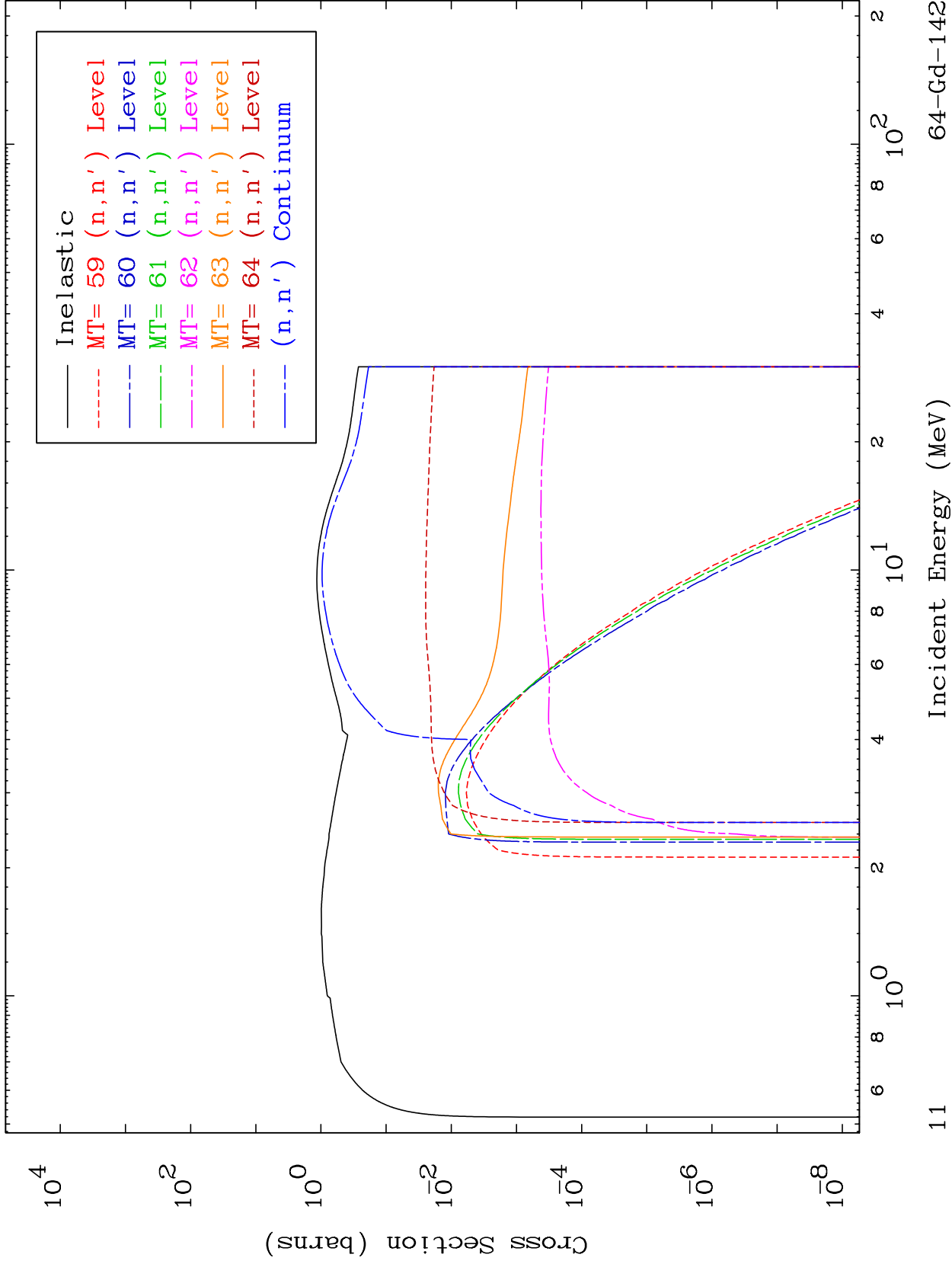
64-Gd-142

MAT 6395

(n,n') Levels

64-Gd-142

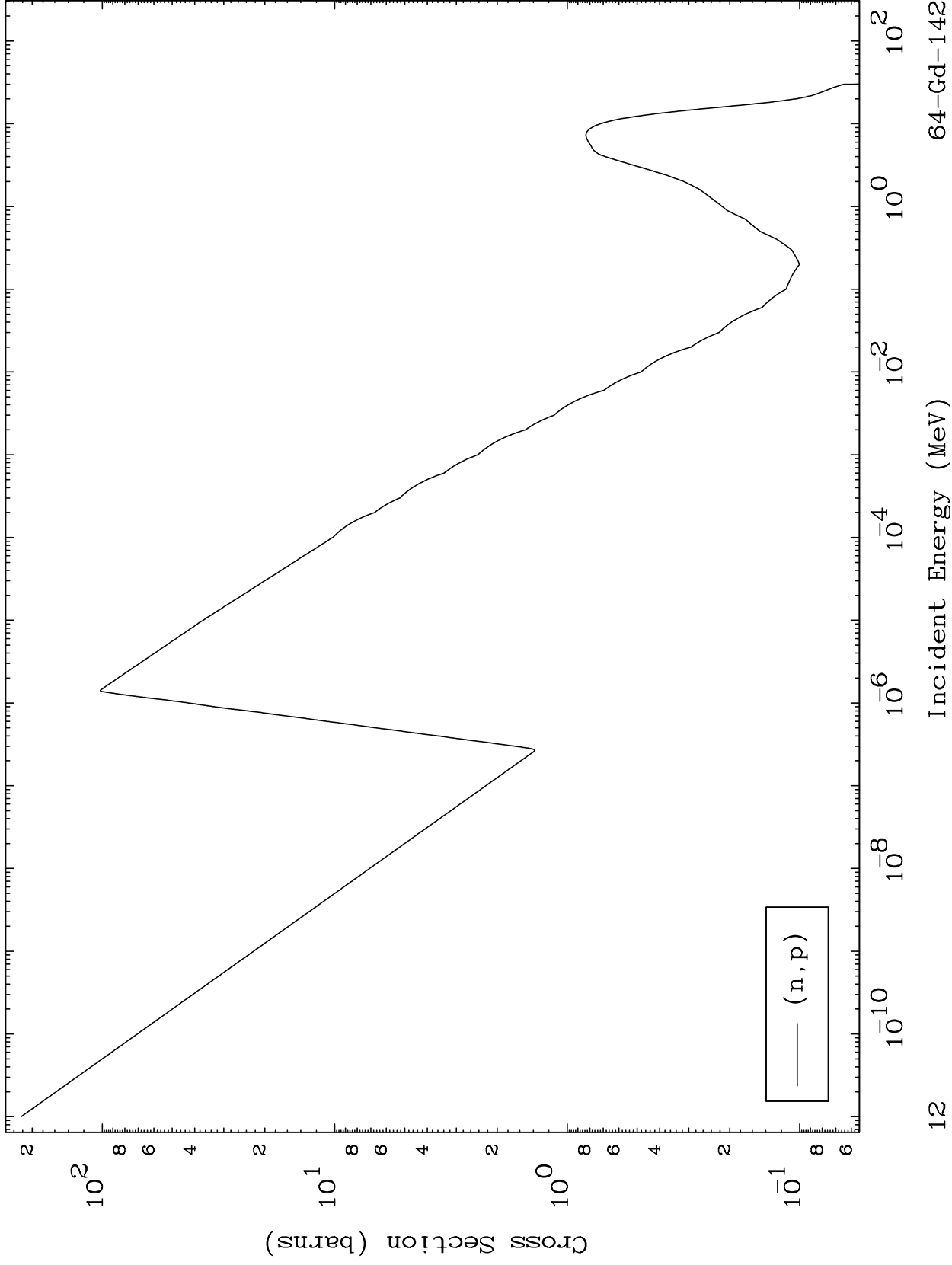
293 Kelvin Cross Sections



MAT 6395

(n,p) Levels
293 Kelvin Cross Sections

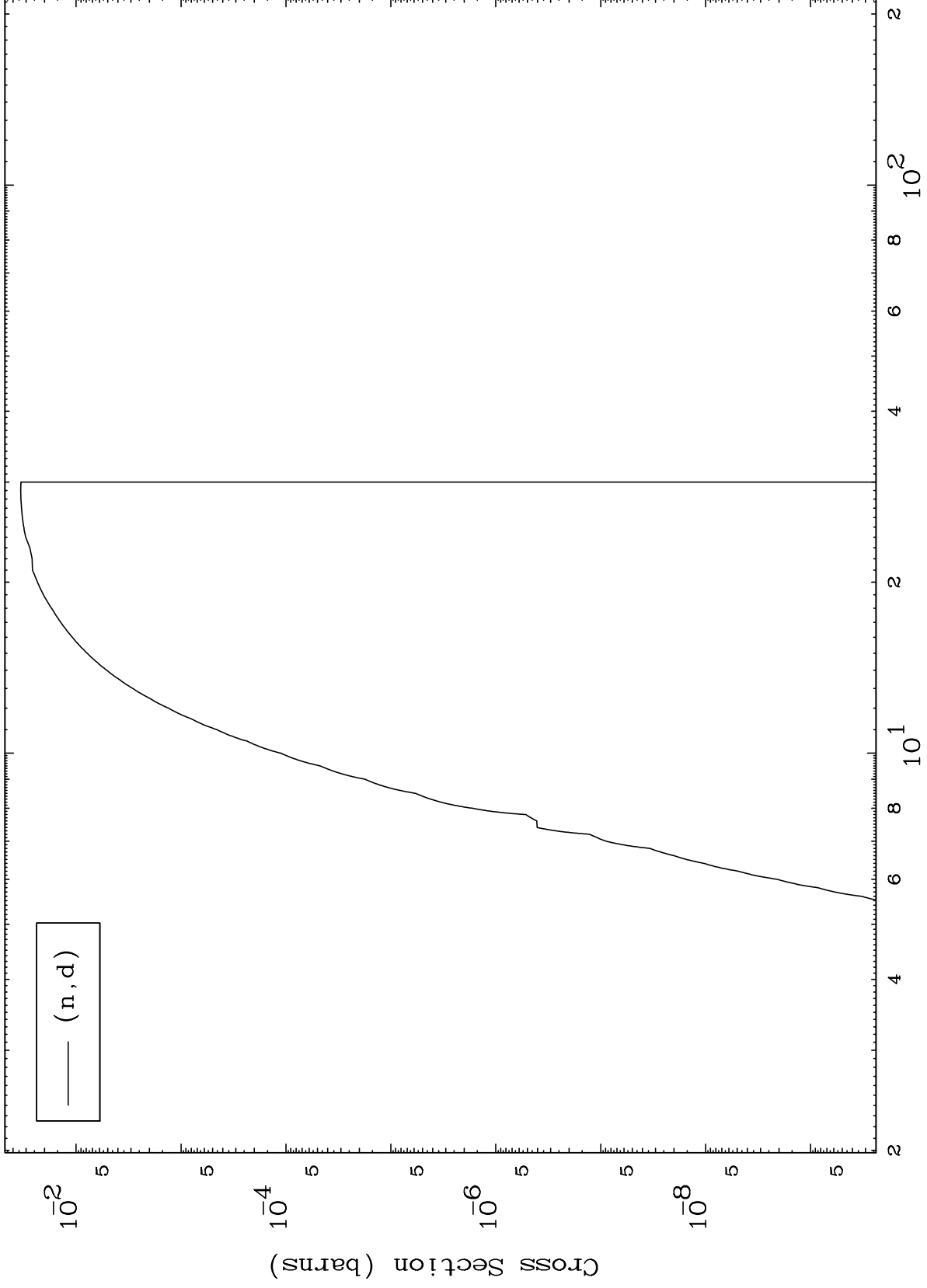
64-Gd-142



MAT 6395

(n,d) Levels
293 Kelvin Cross Sections

64-Gd-142



13

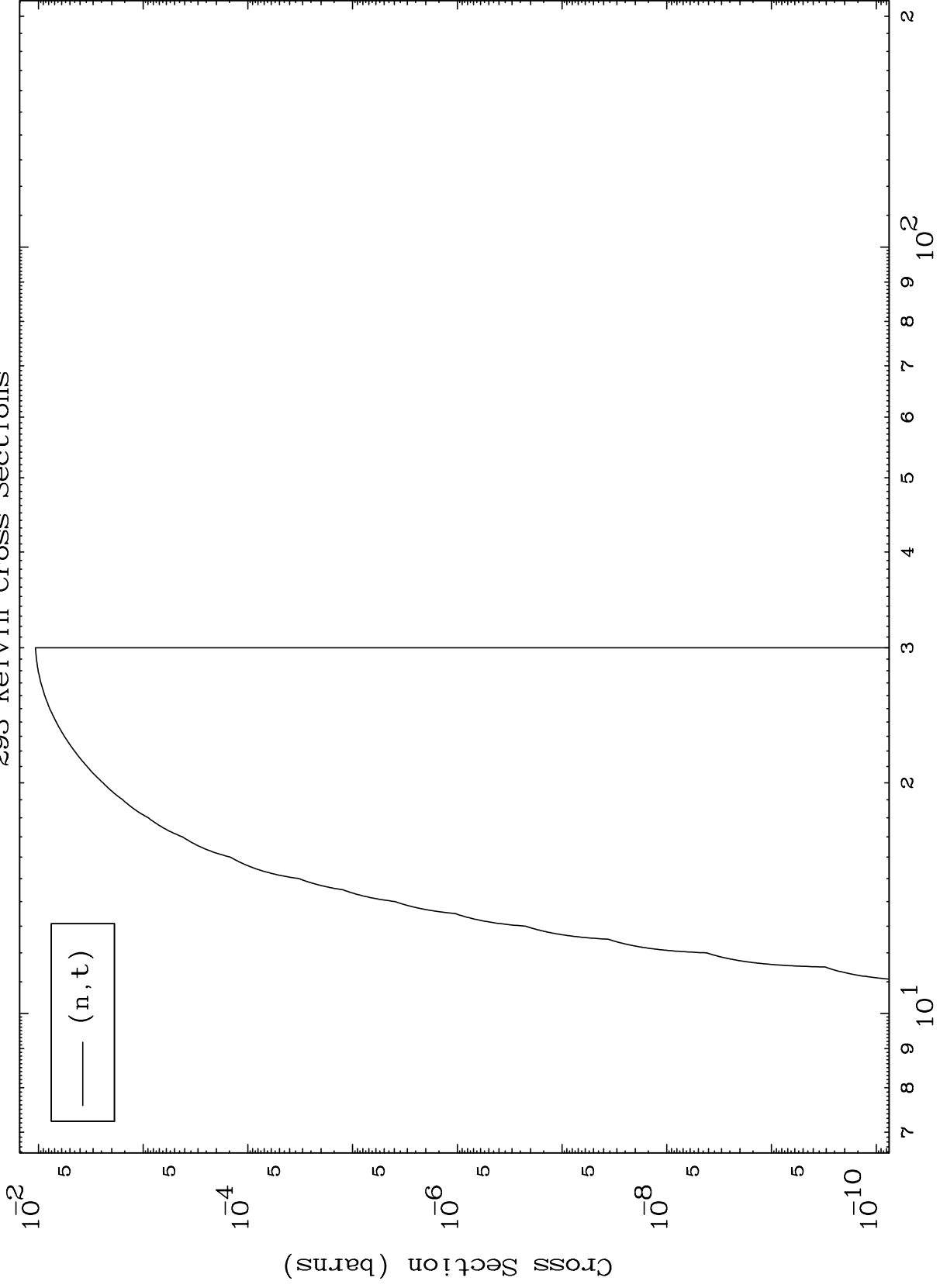
Incident Energy (MeV)

64-Gd-142

MAT 6395

(n,t) Levels
293 Kelvin Cross Sections

64-Gd-142



14

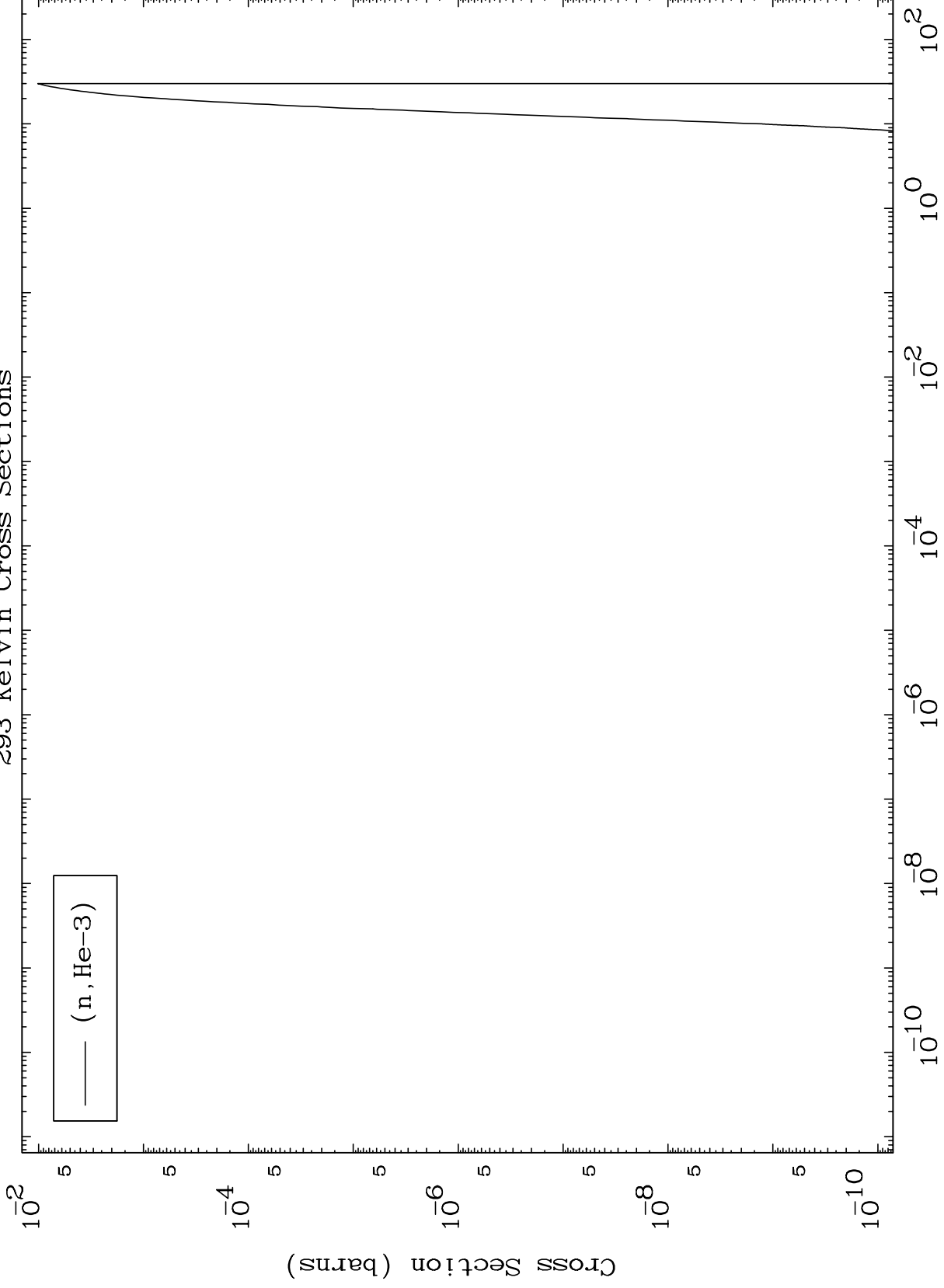
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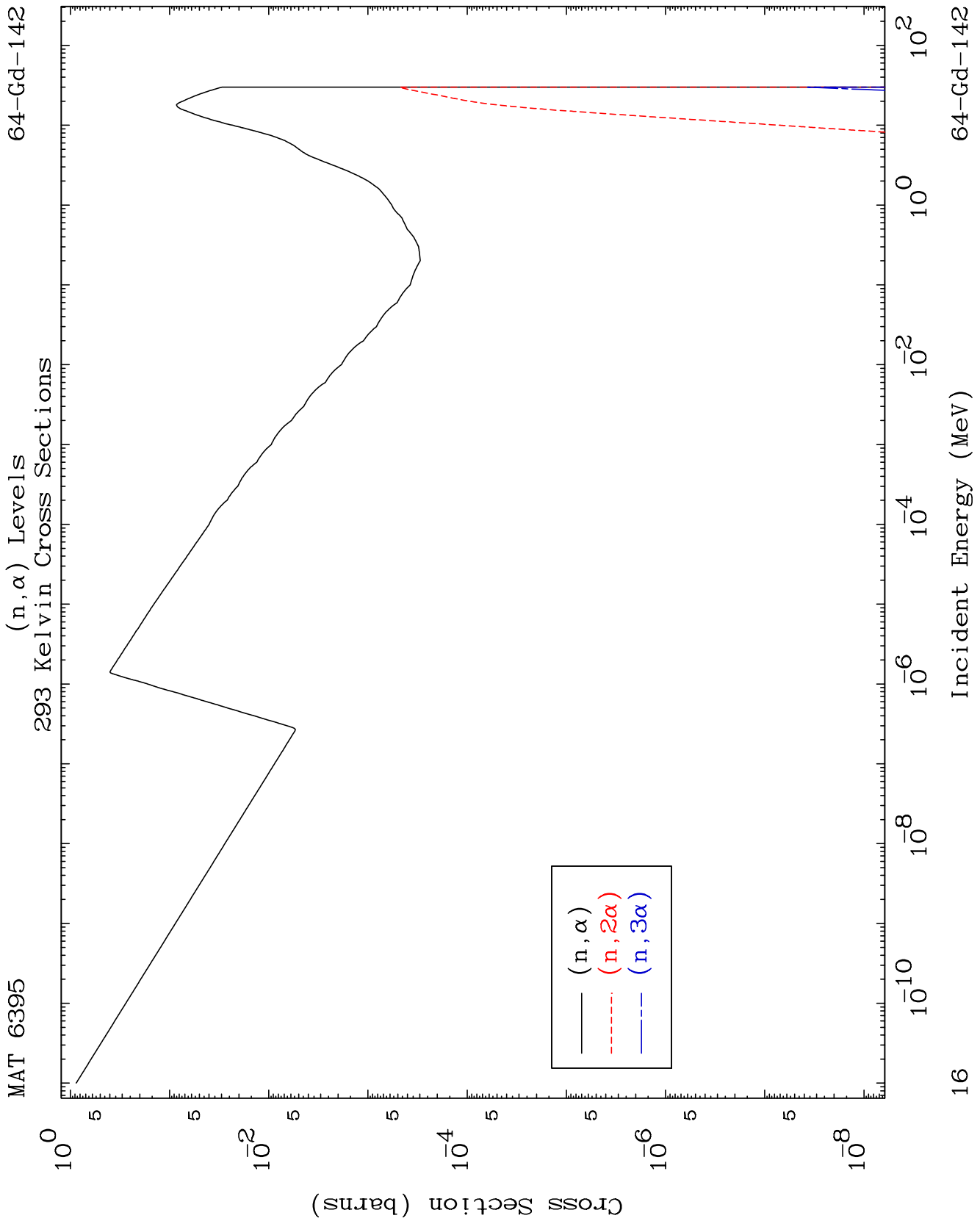
MAT 6395

(n,He3) Levels
293 Kelvin Cross Sections

64-Gd-142



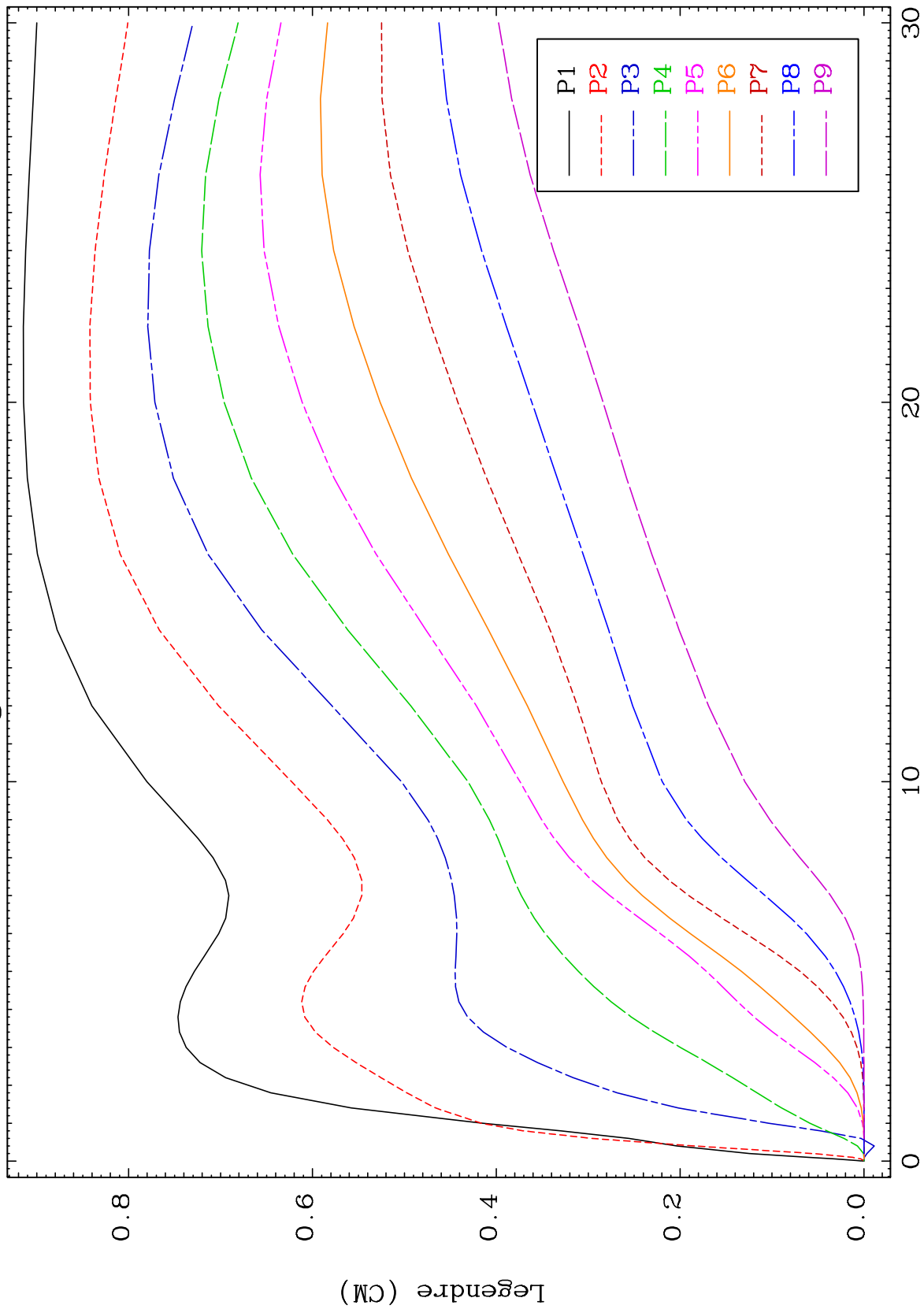
(n, He-3)



MAT 6395

Elastic Legendre Coefficients

64-Gd-142



17

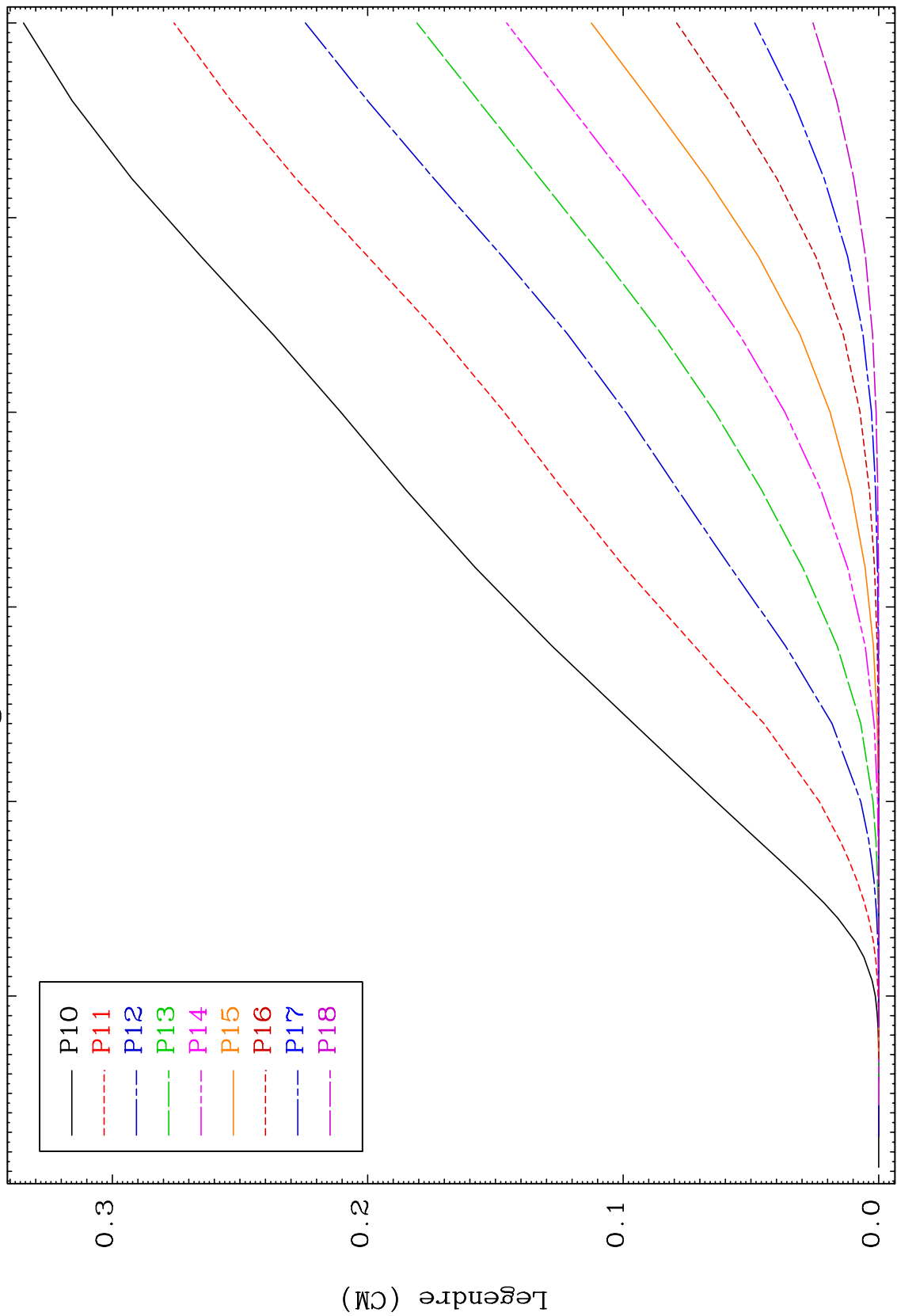
Incident Energy (MeV)

64-Gd-142

MAT 6395

Elastic Legendre Coefficients

64-Gd-142



18

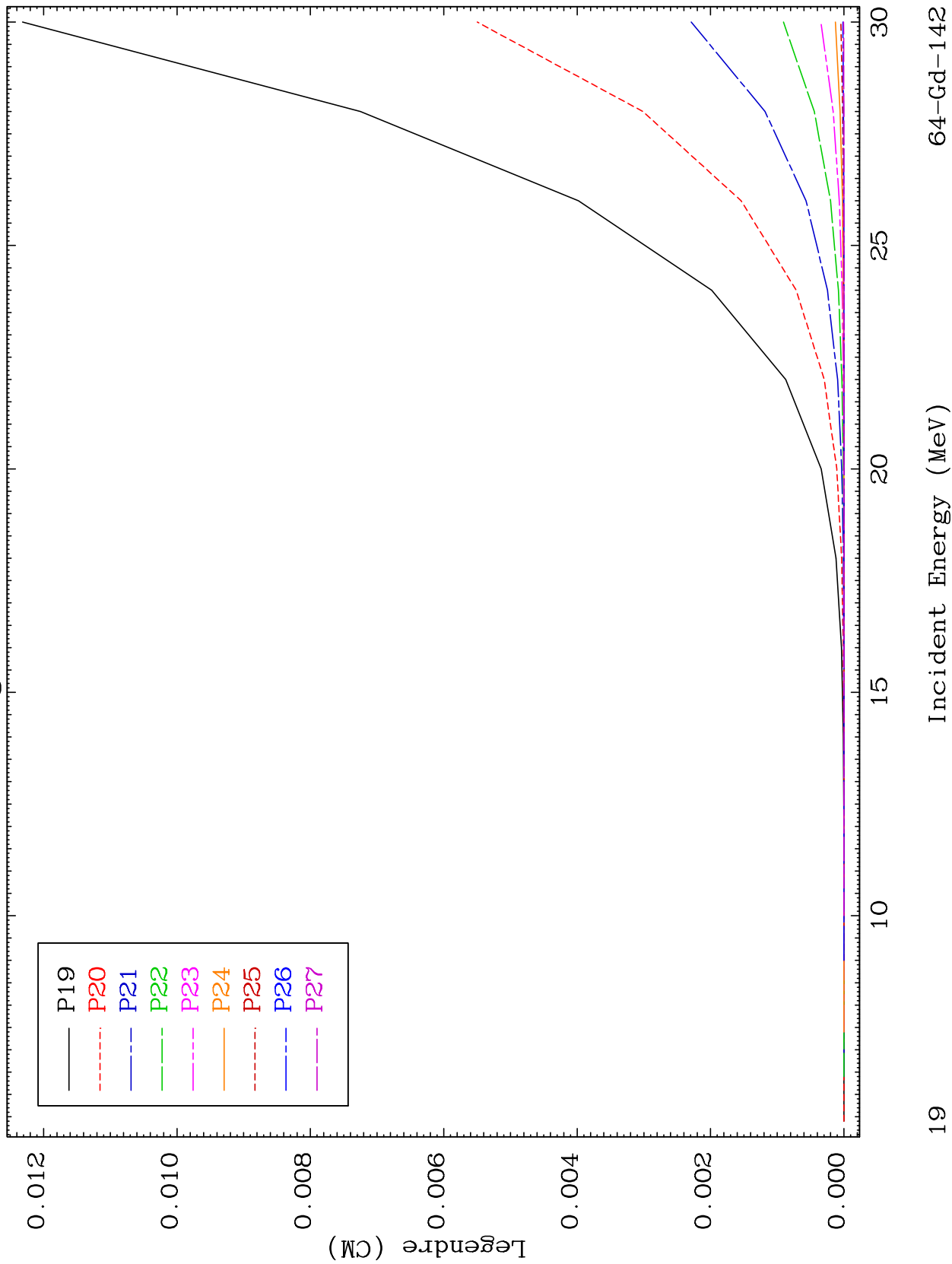
Incident Energy (MeV)

64-Gd-142

MAT 6395

Elastic Legendre Coefficients

64-Gd-142



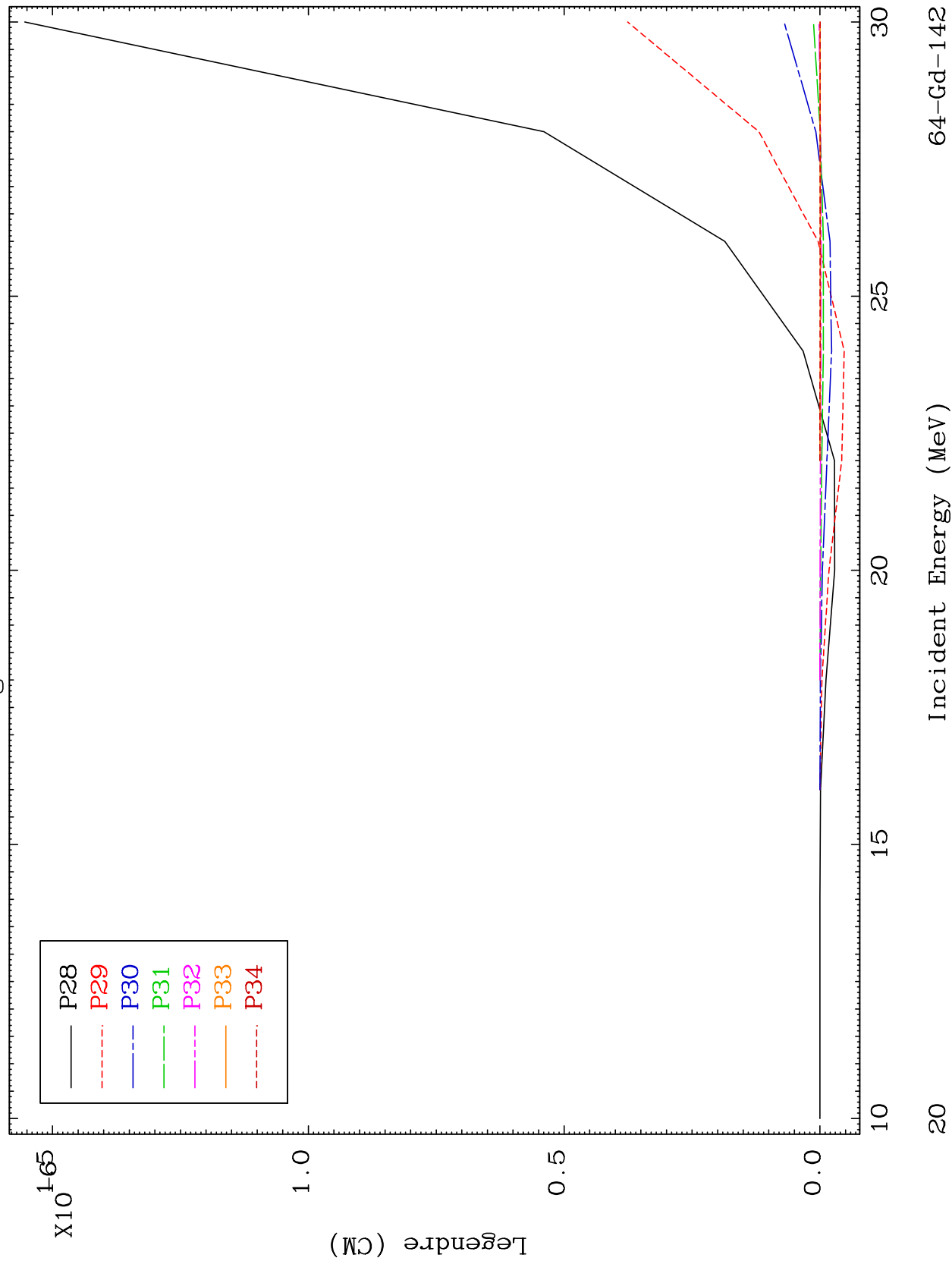
19

64-Gd-142

MAT 6395

Elastic Legendre Coefficients

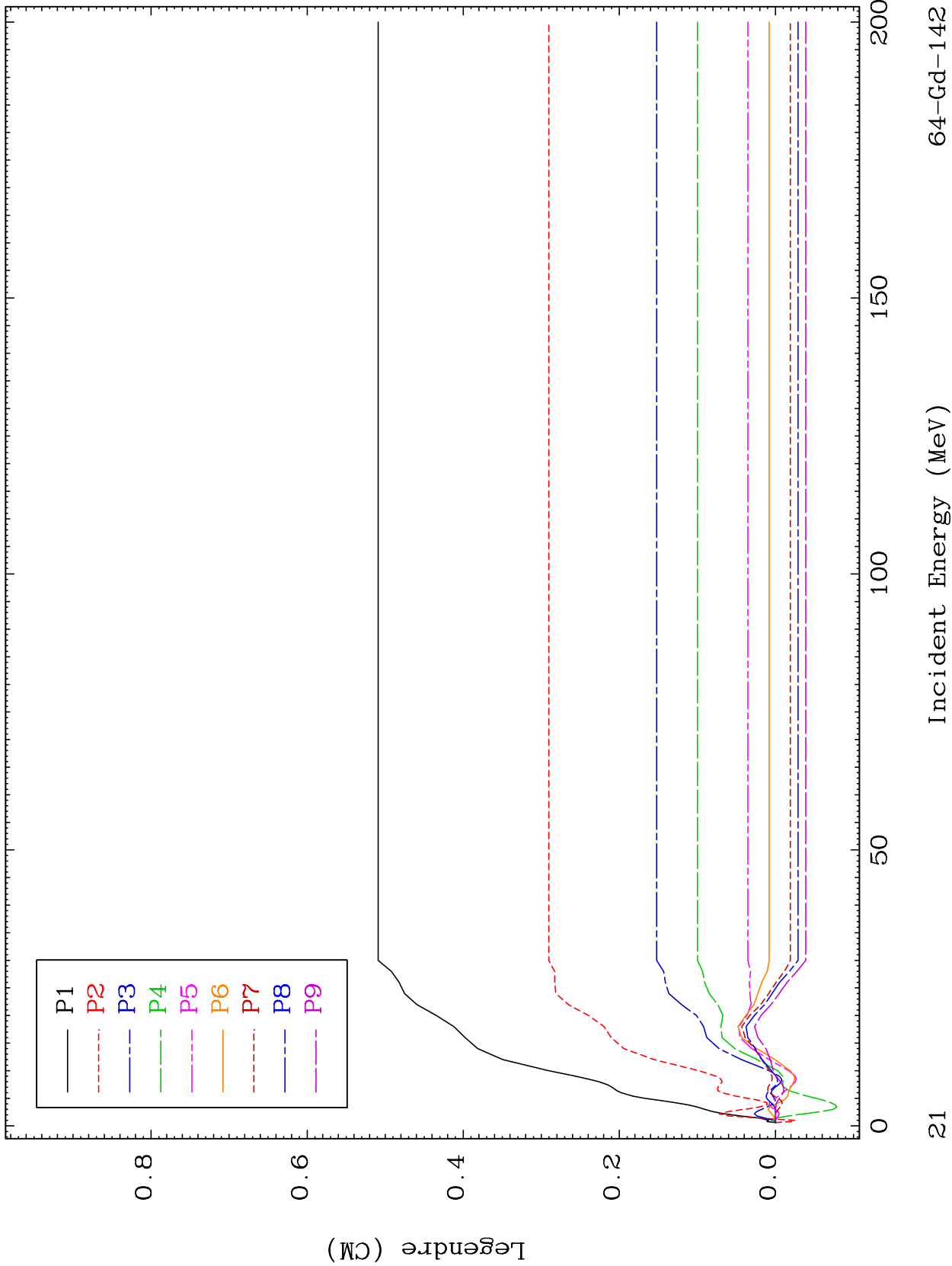
64-Gd-142



MAT 6395

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

64-Gd-142



21

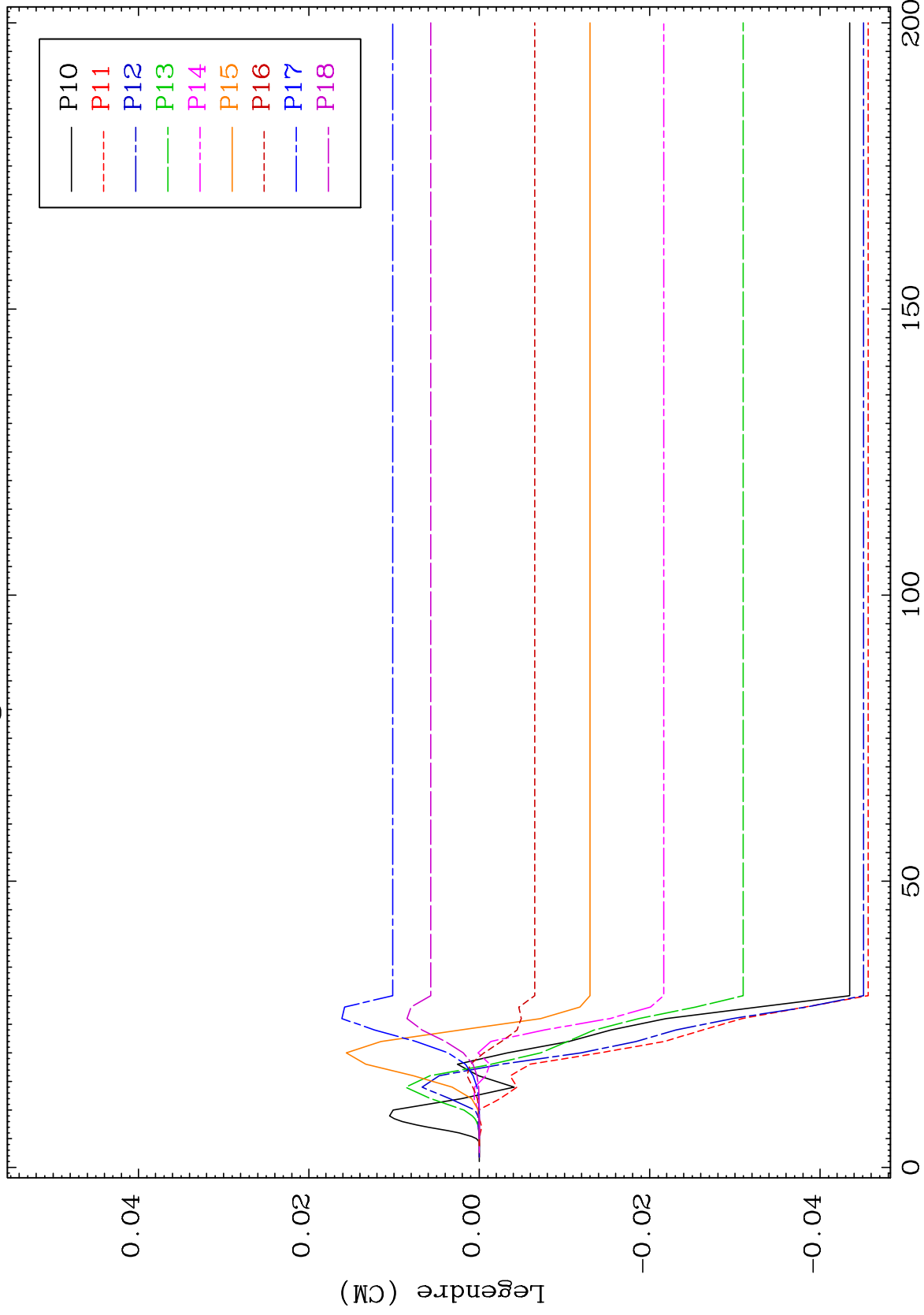
Incident Energy (MeV)

64-Gd-142

MAT 6395

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

64-Gd-142



22

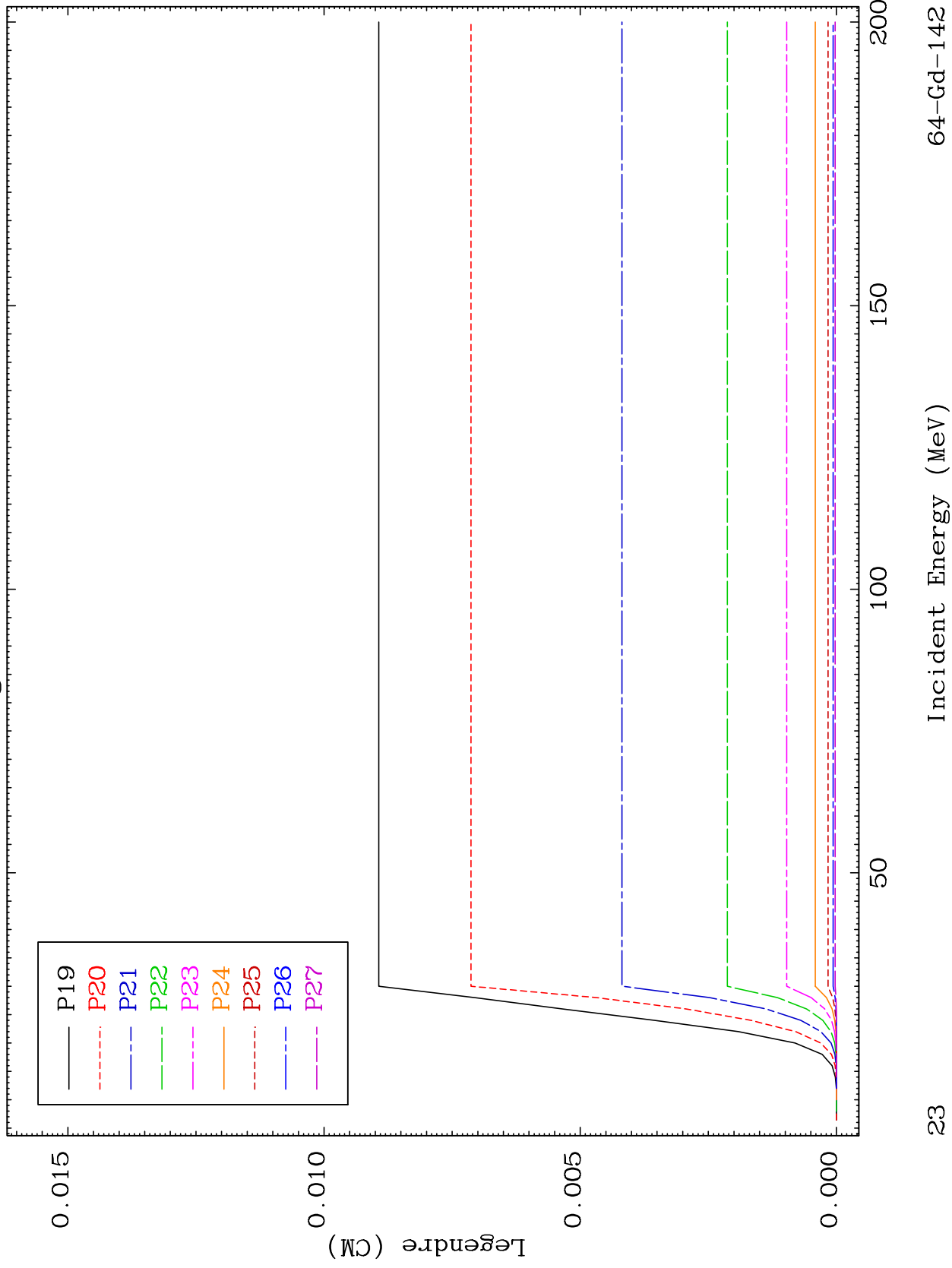
Incident Energy (MeV)

64-Gd-142

MAT 6395

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

64-Gd-142



23

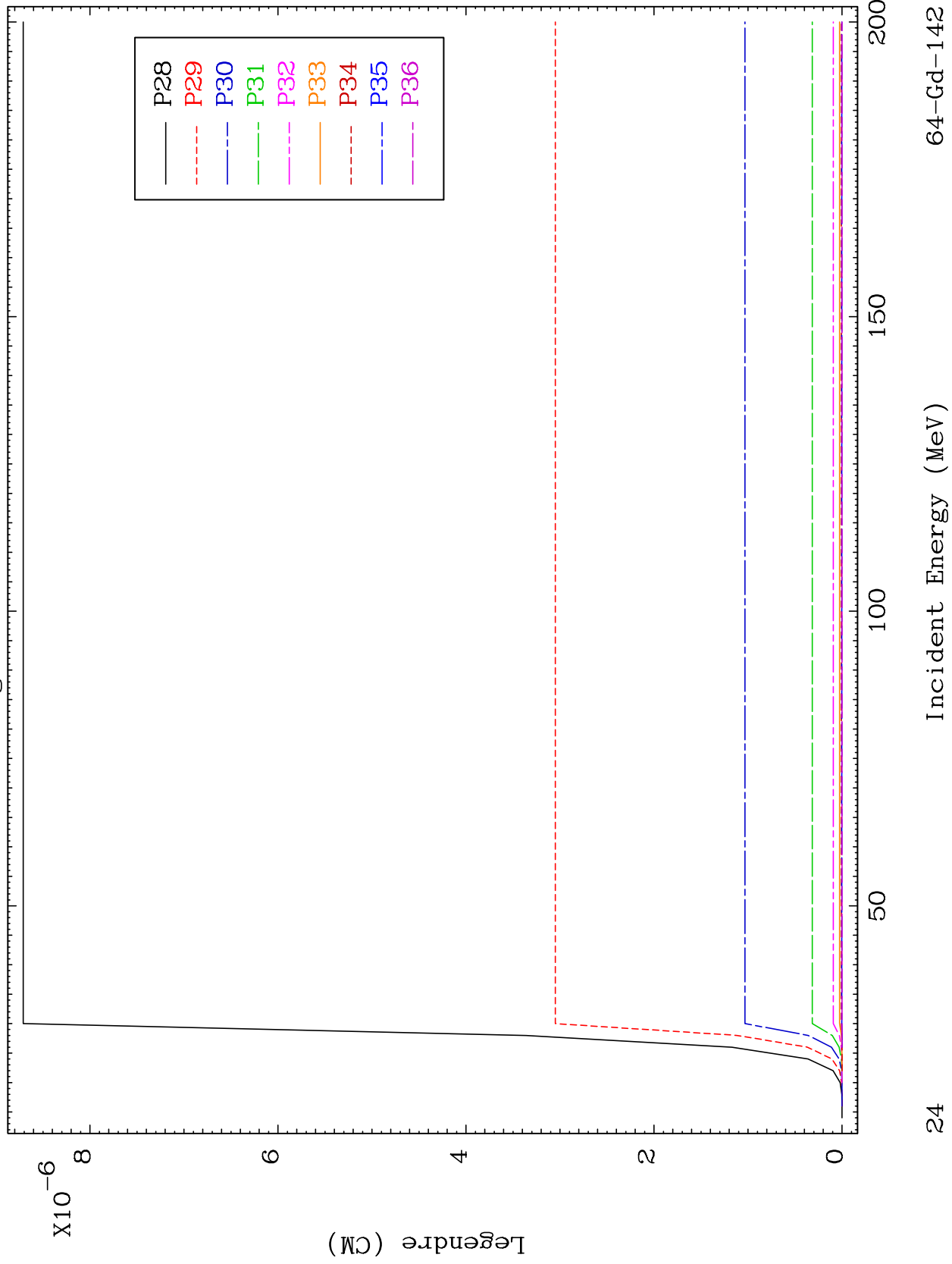
Incident Energy (MeV)

64-Gd-142

MAT 6395

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

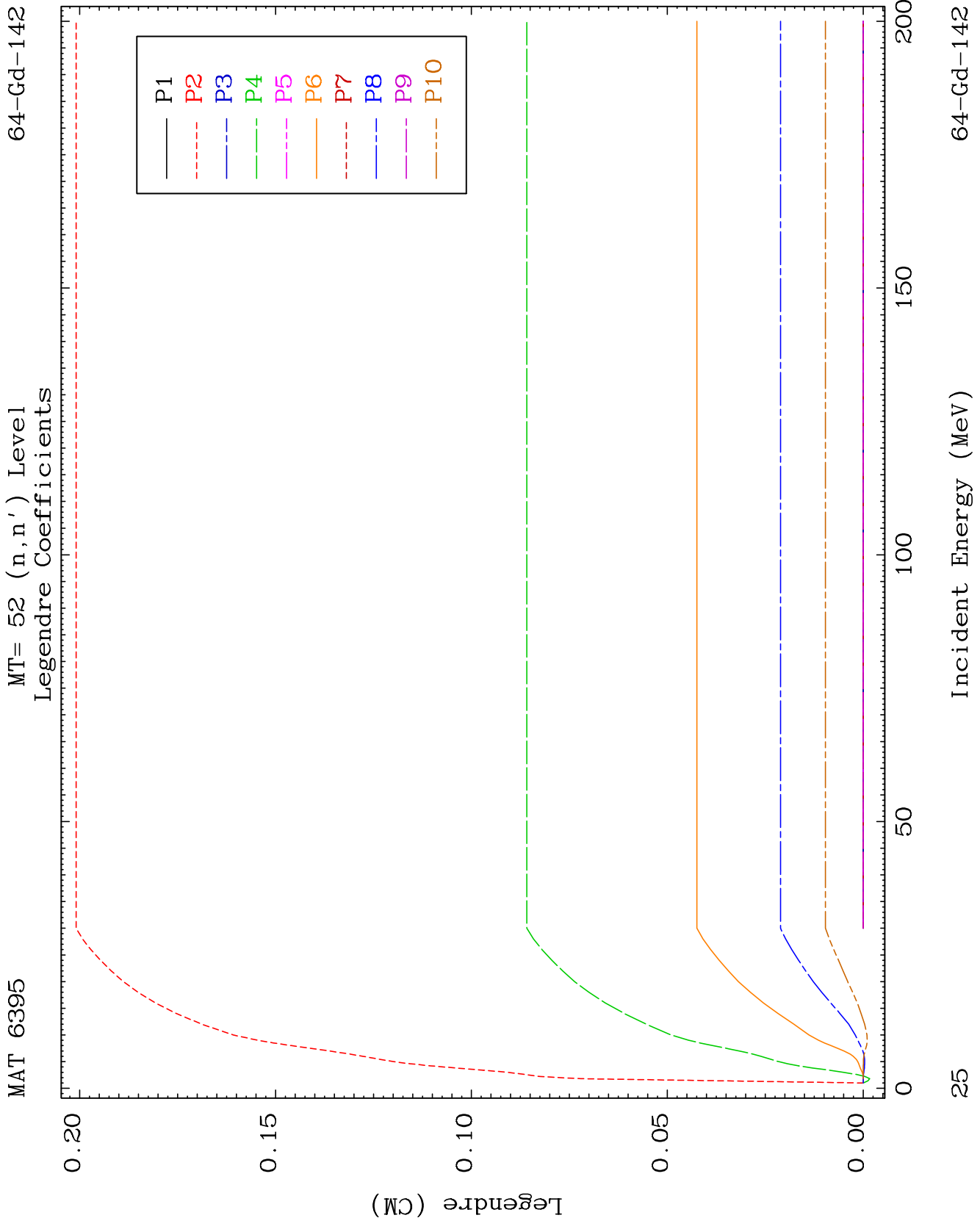
64-Gd-142



24

Incident Energy (MeV)

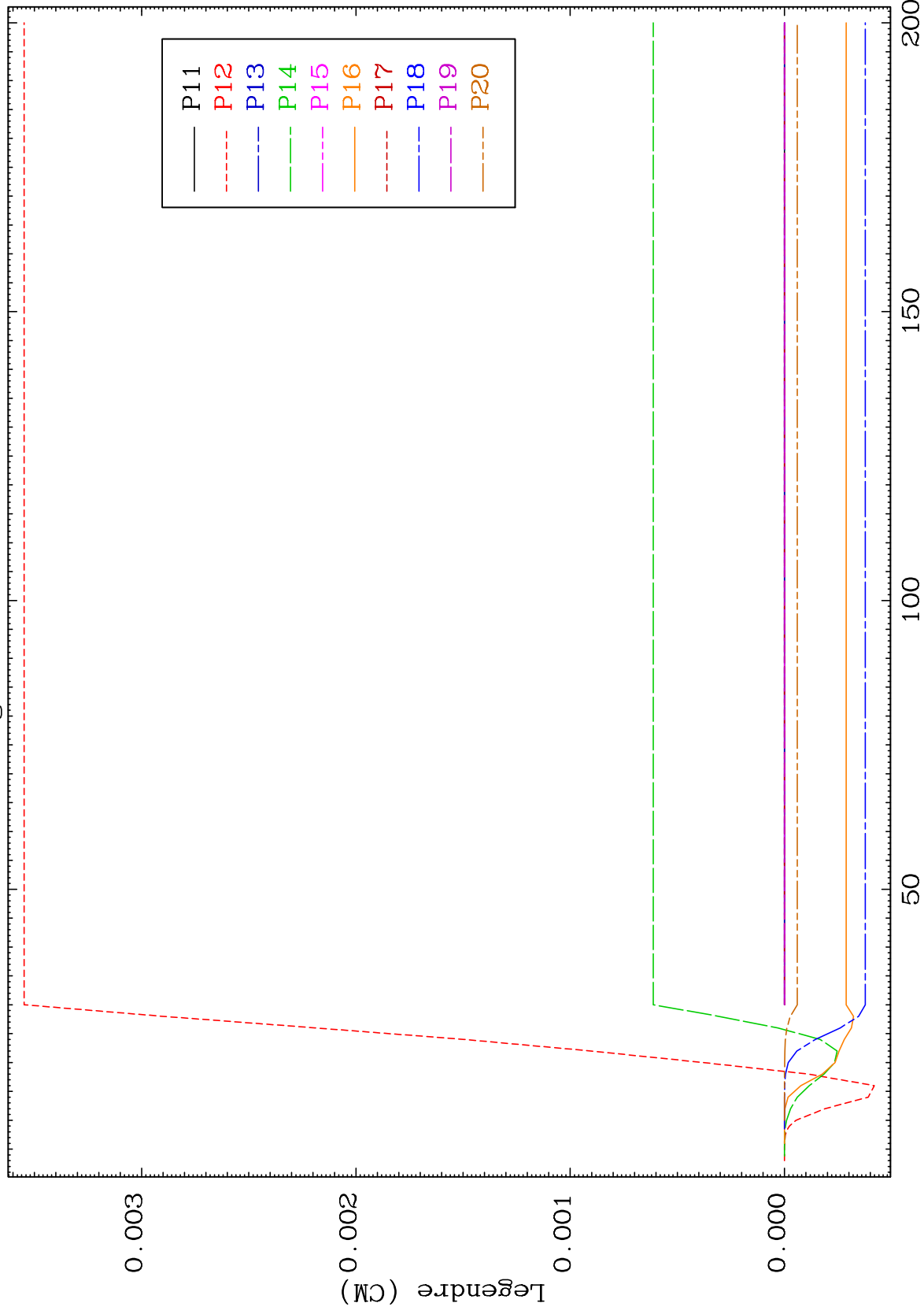
64-Gd-142



MAT 6395

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

64-Gd-142



26

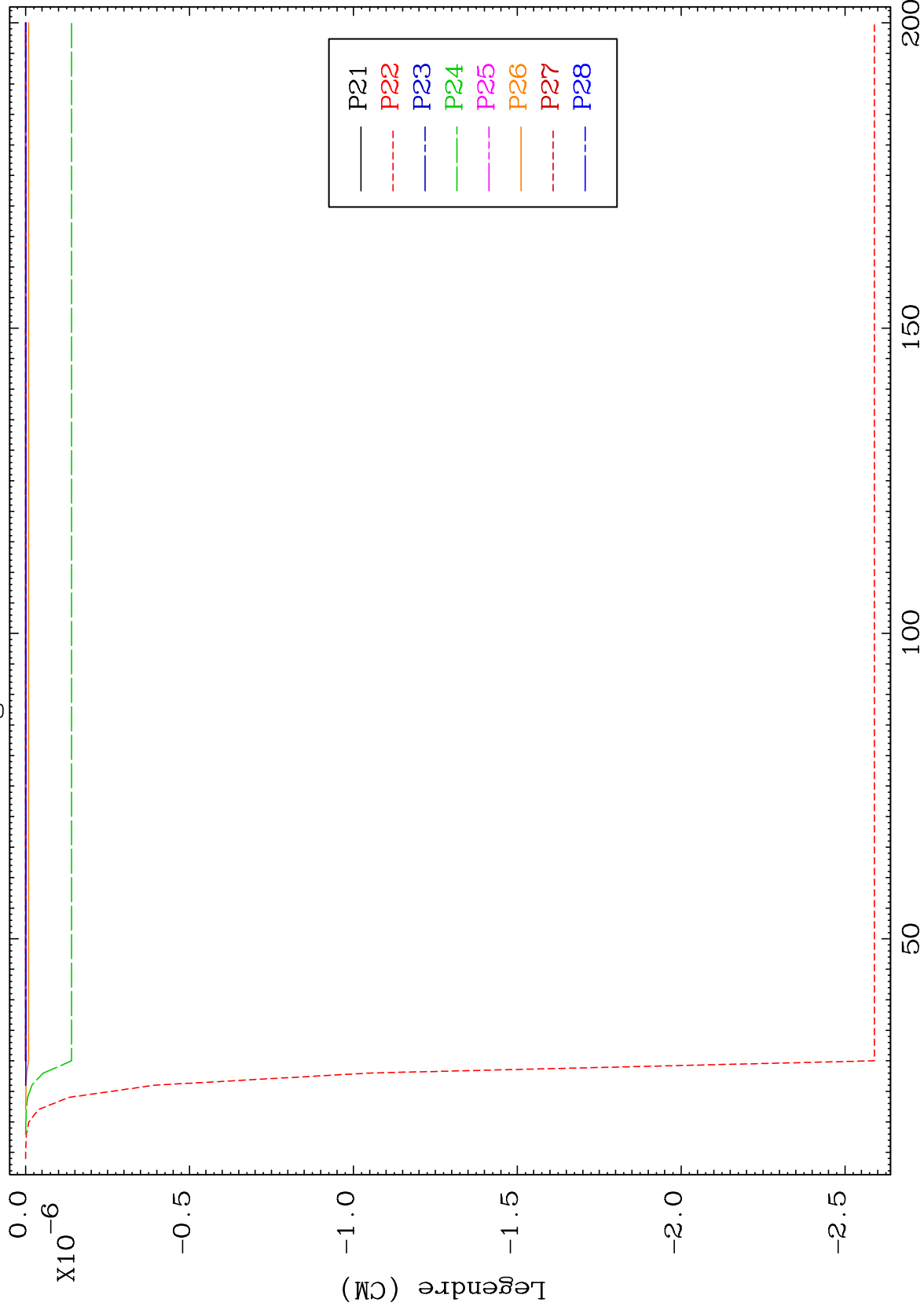
Incident Energy (MeV)

64-Gd-142

MAT 6395

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

64-Gd-142



64-Gd-142

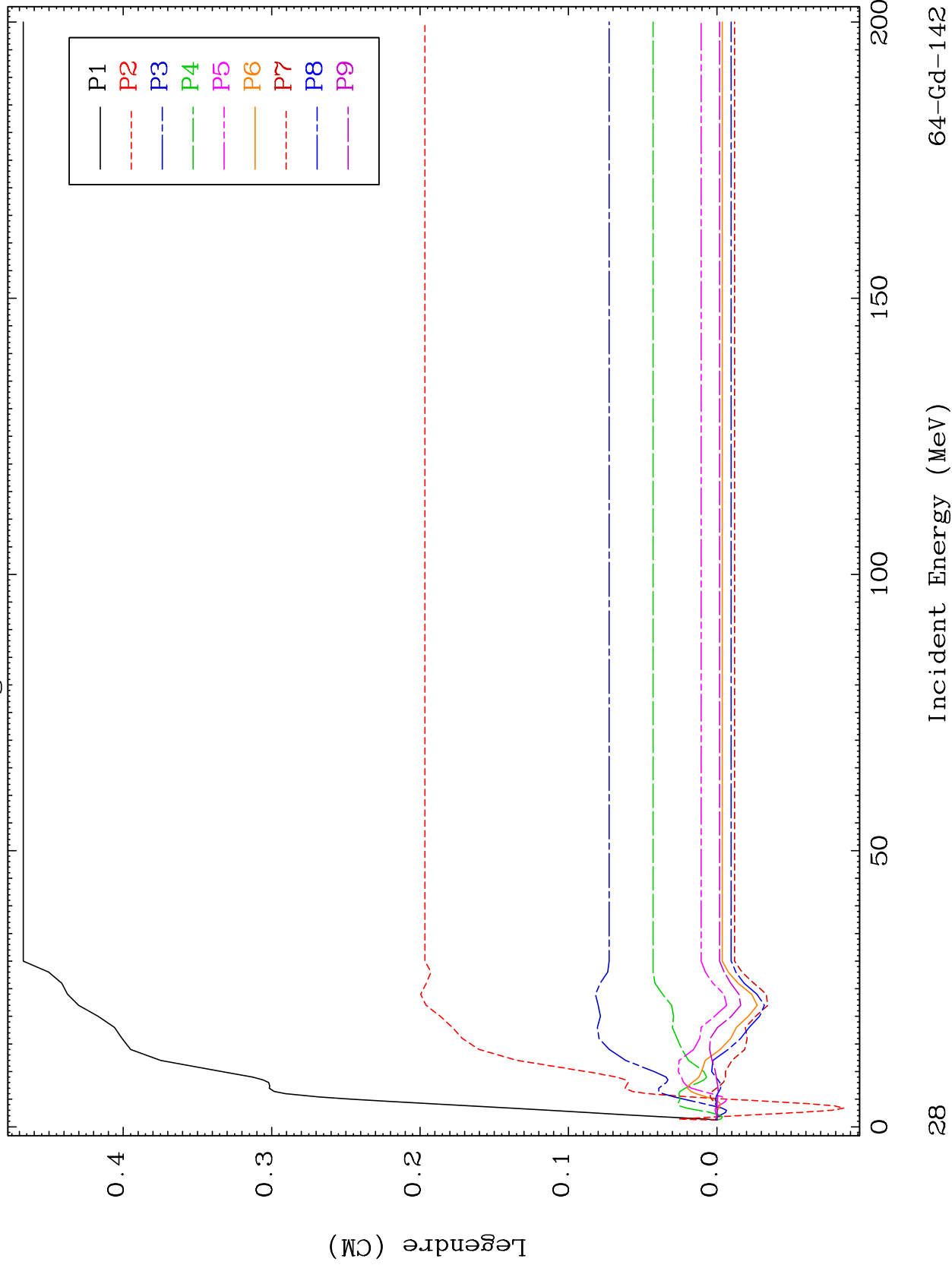
Incident Energy (MeV)

27

MAT 6395

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

64-Gd-142



64-Gd-142

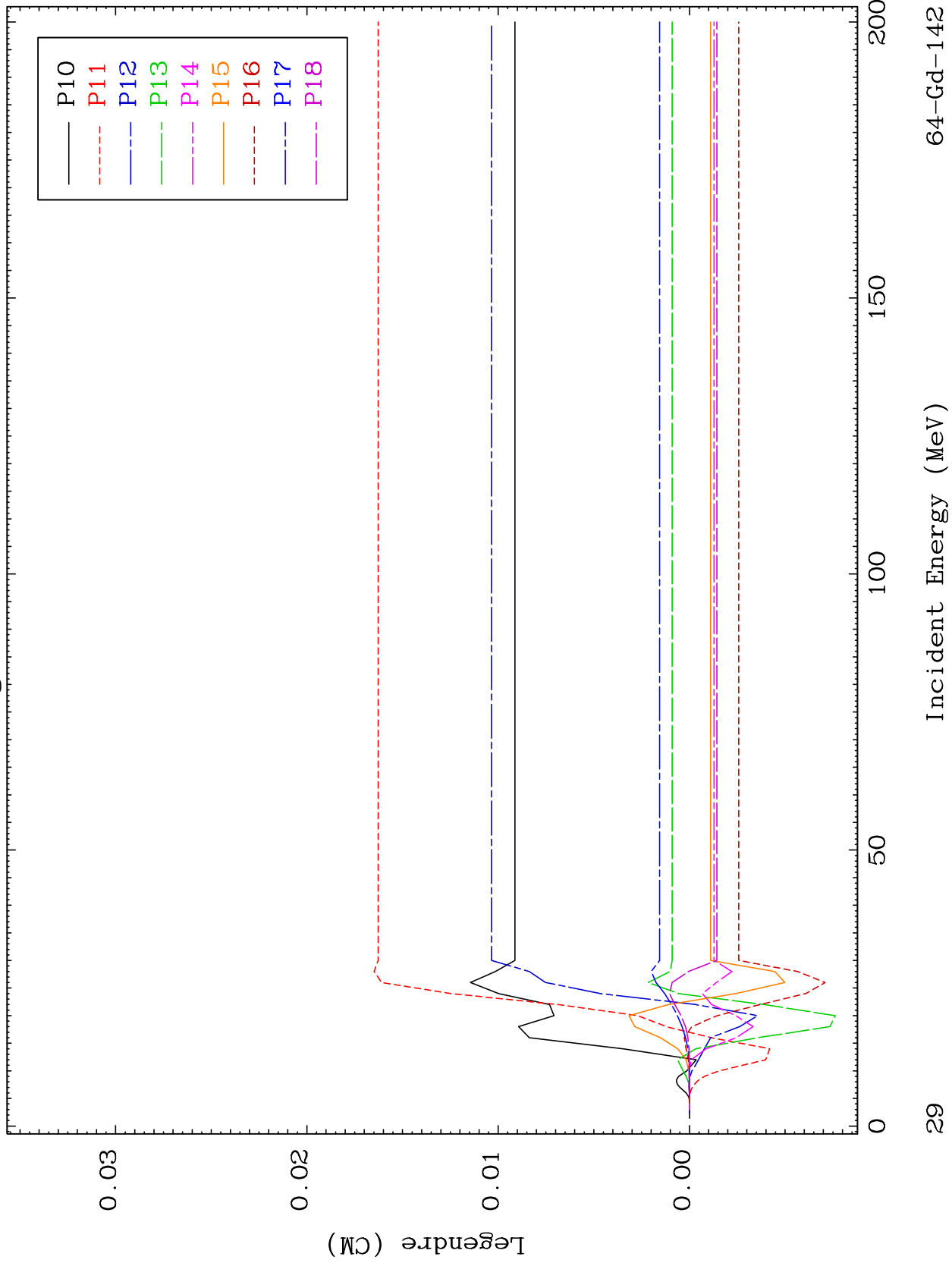
Incident Energy (MeV)

28

MAT 6395

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

64-Gd-142



64-Gd-142

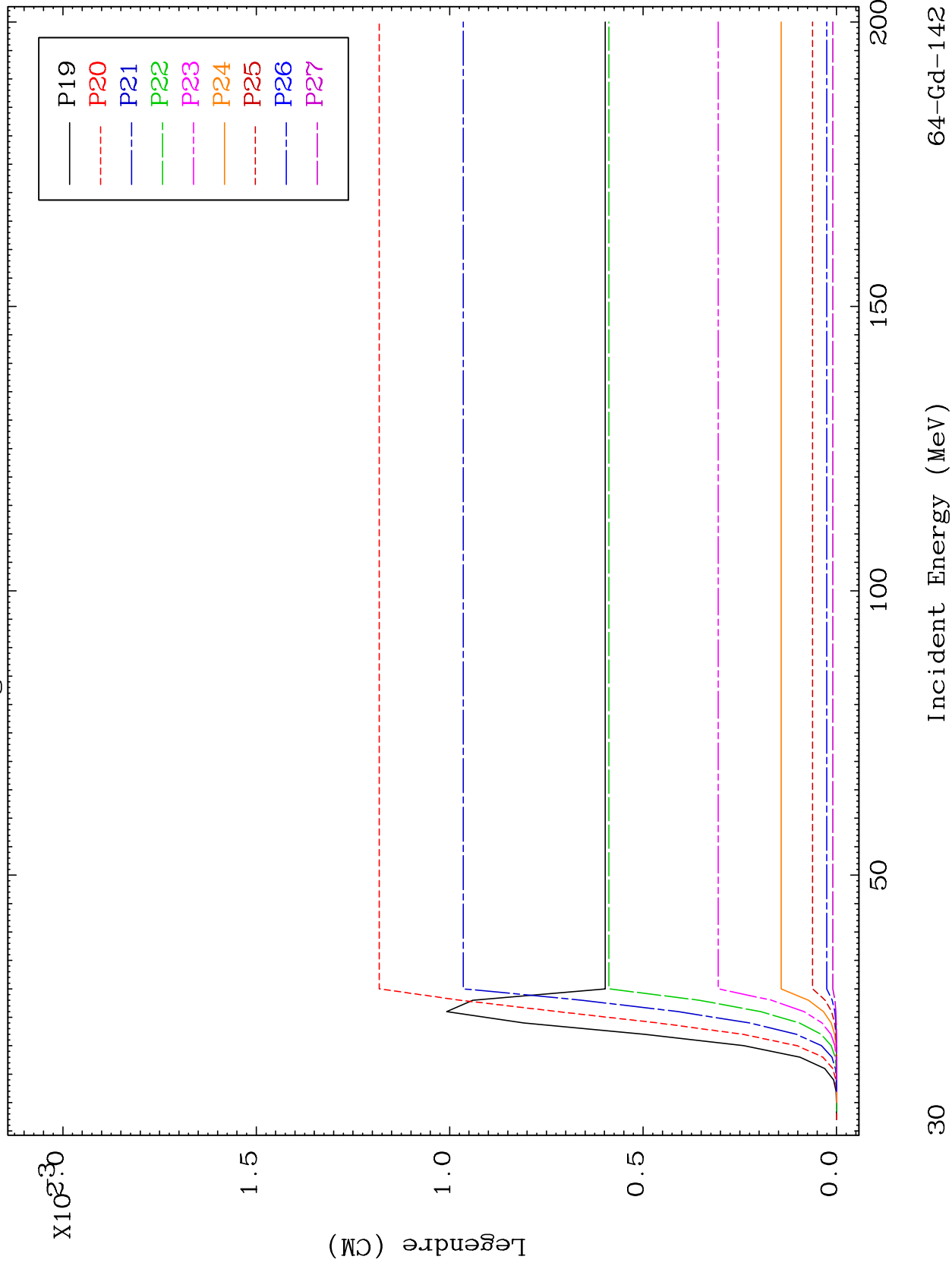
Incident Energy (MeV)

29

MAT 6395

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

64-Gd-142



64-Gd-142

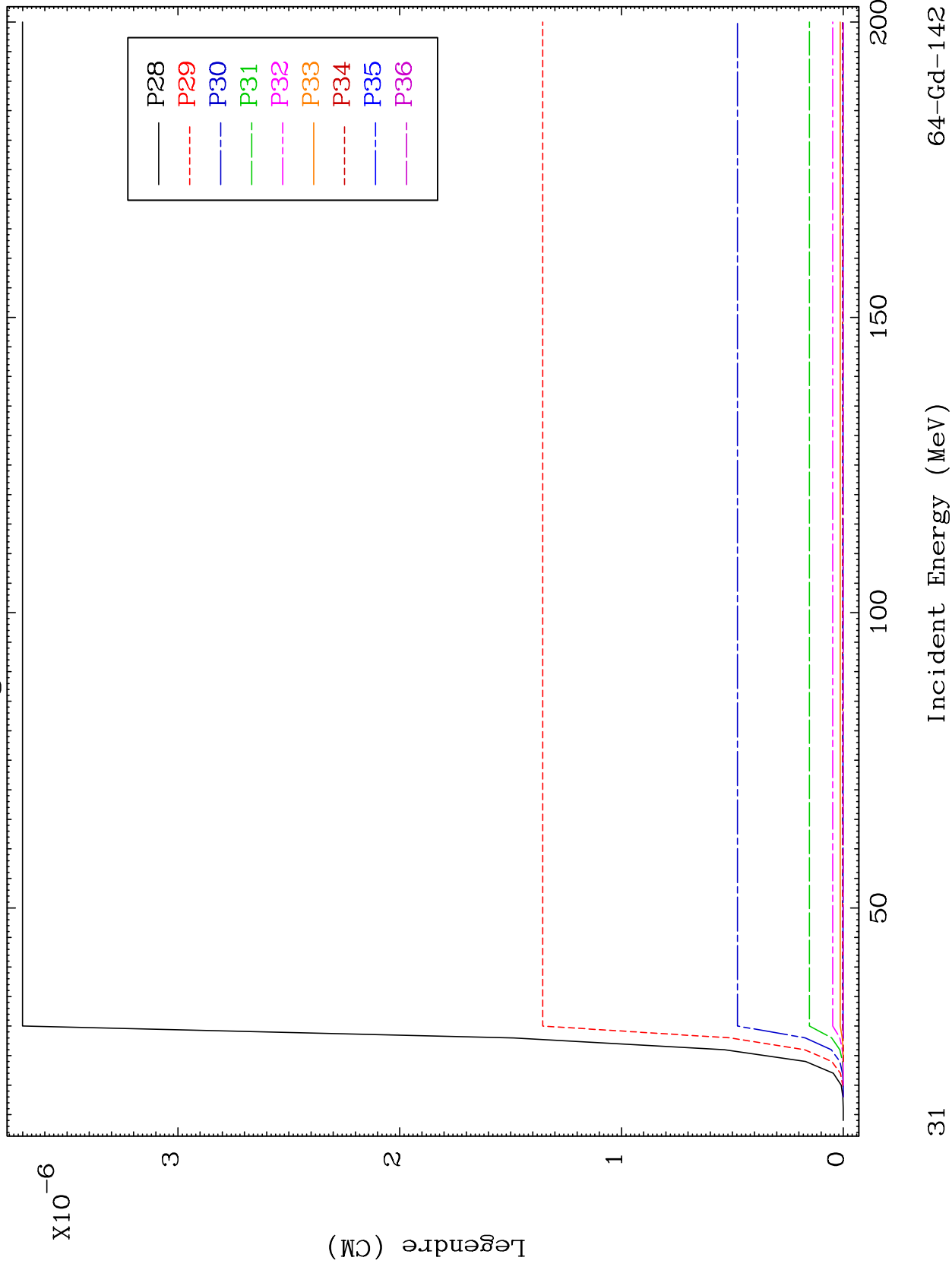
Incident Energy (MeV)

30

MAT 6395

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

64-Gd-142



31

Incident Energy (MeV)

64-Gd-142

200

150

100

50

$\times 10^{-6}$

3

2

1

0

P28

P29

P30

P31

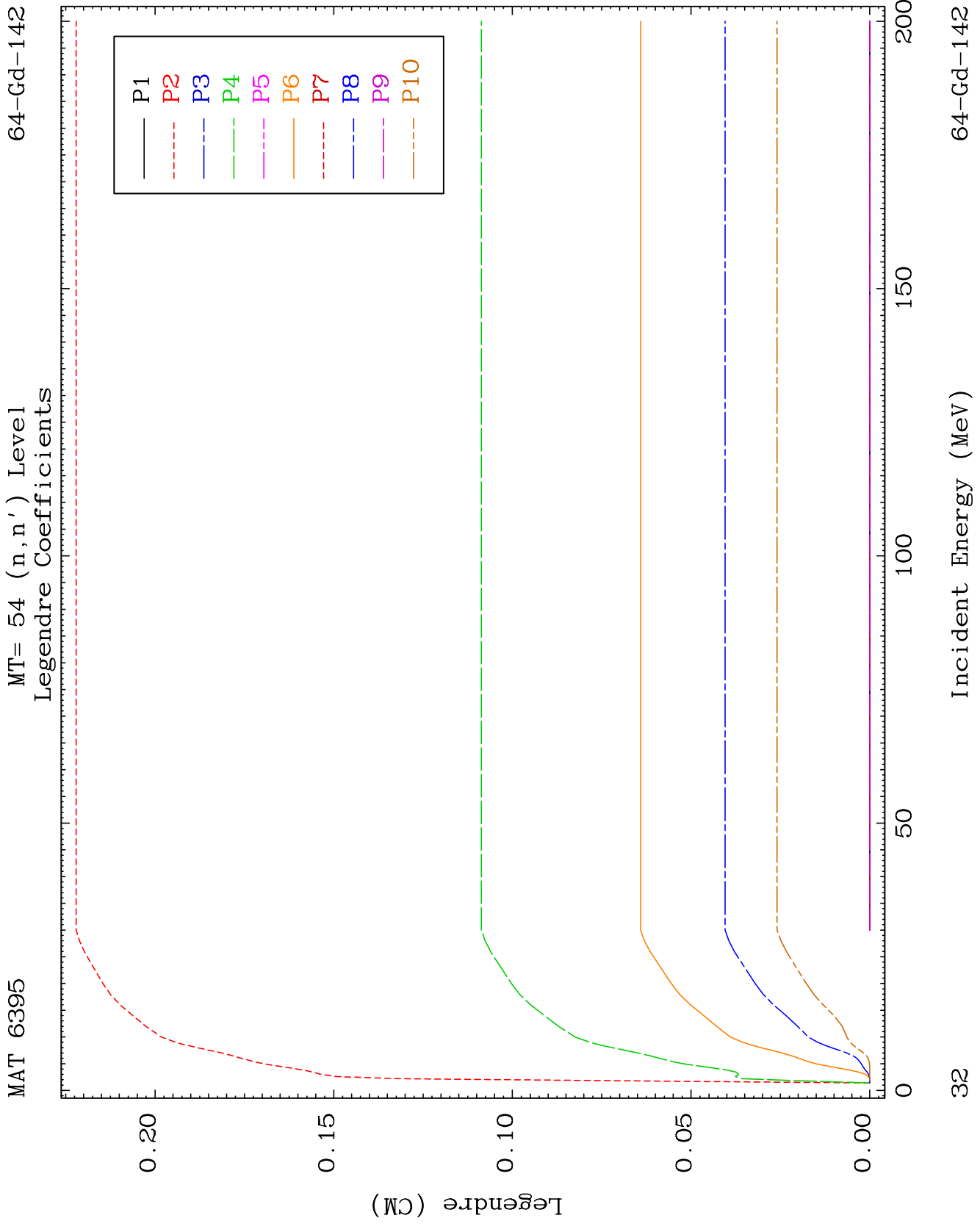
P32

P33

P34

P35

P36



64-Gd-142

Incident Energy (MeV)

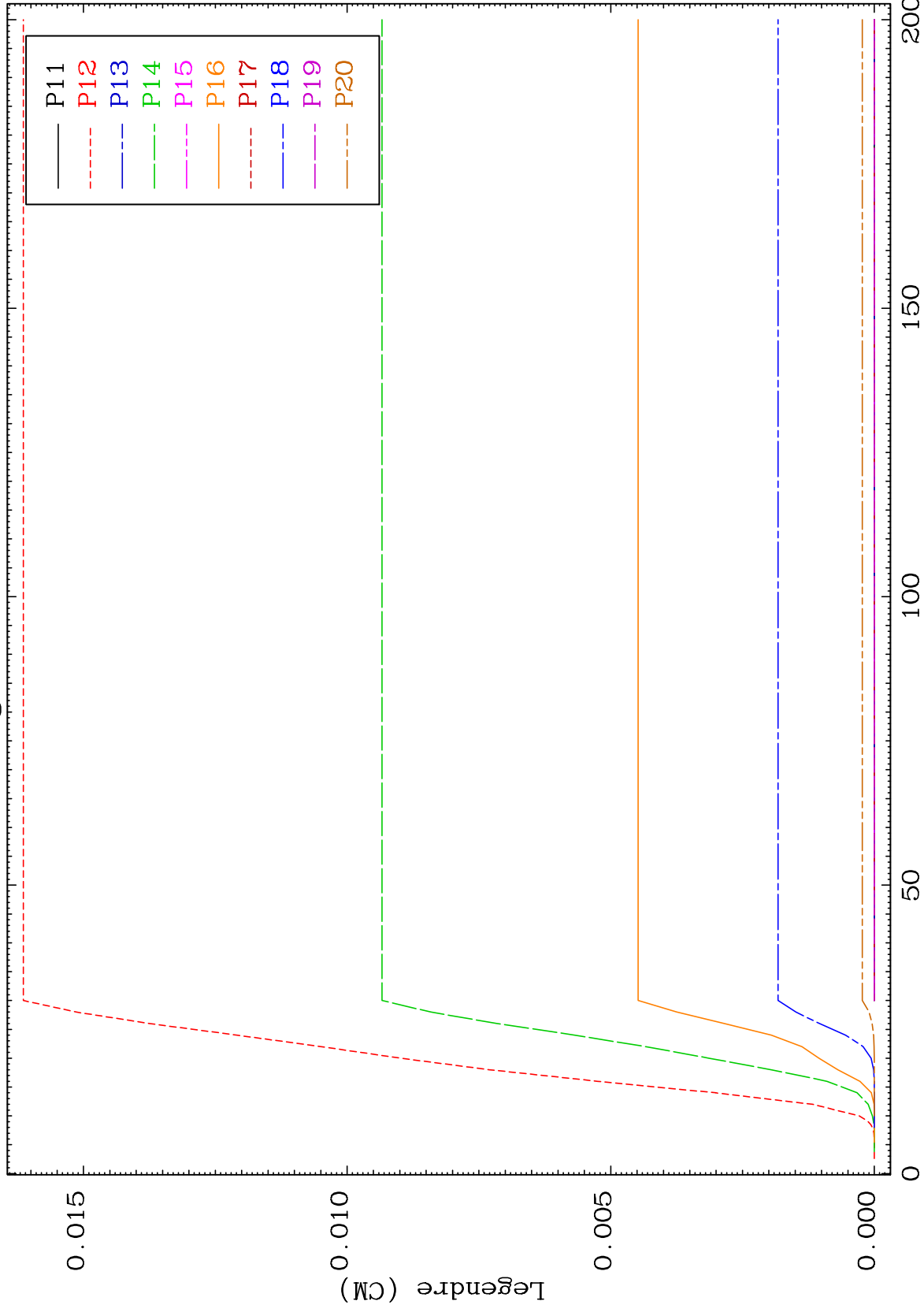
32

MAT 6395

MT= 54 (n,n') Level

64-Gd-142

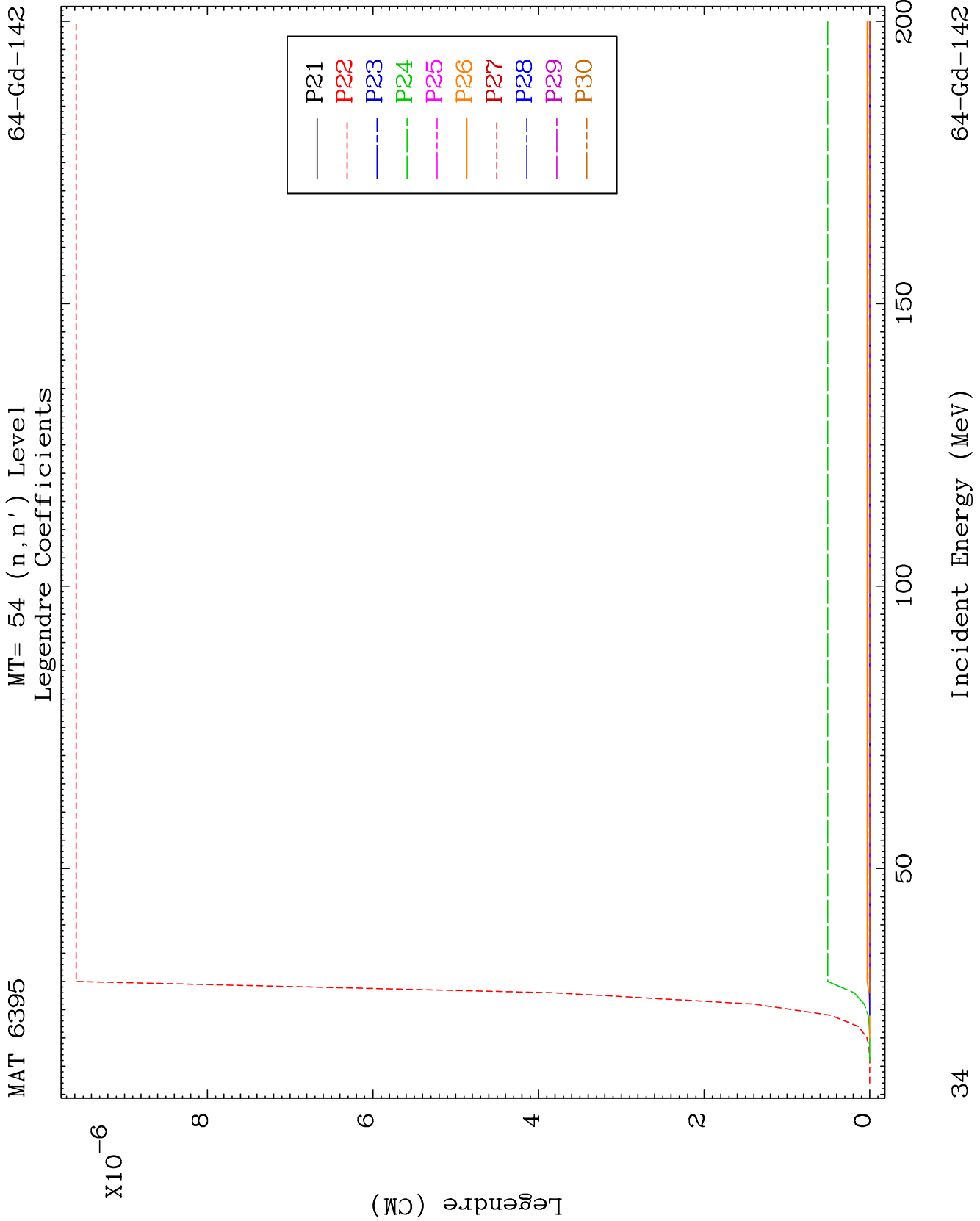
Legendre Coefficients



33

Incident Energy (MeV)

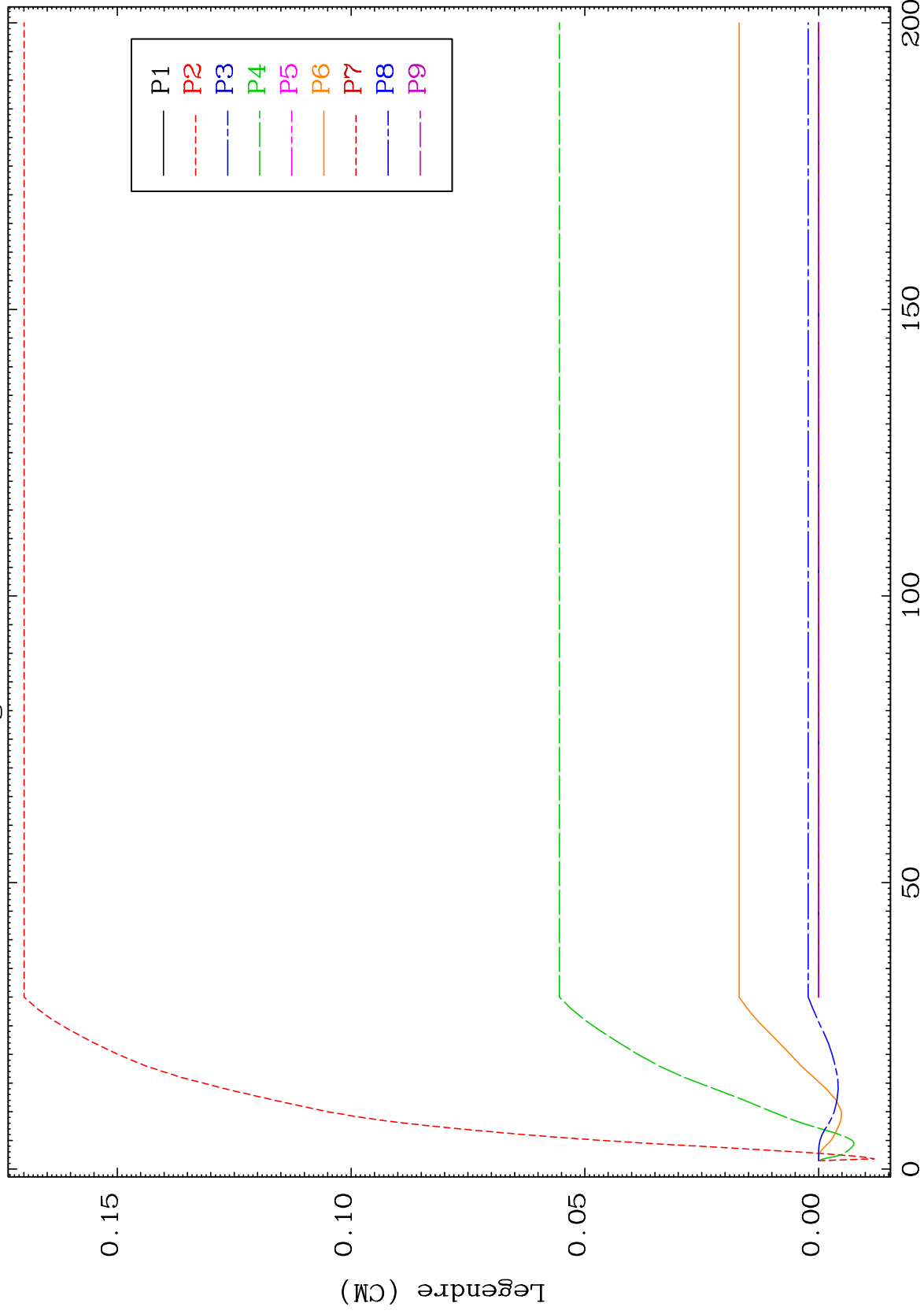
64-Gd-142



MAT 6395

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

64-Gd-142



64-Gd-142

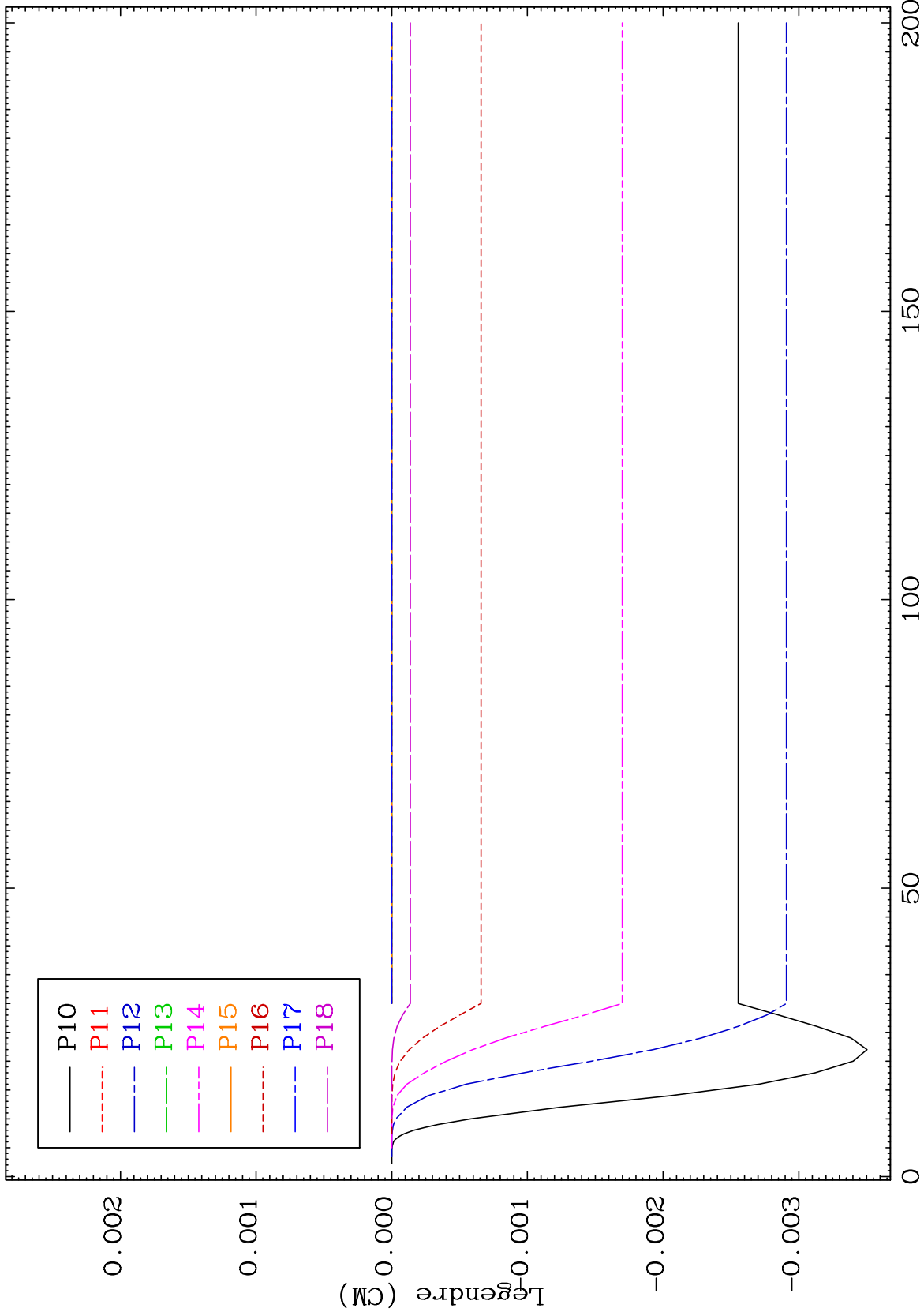
Incident Energy (MeV)

35

MAT 6395

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

64-Gd-142



36

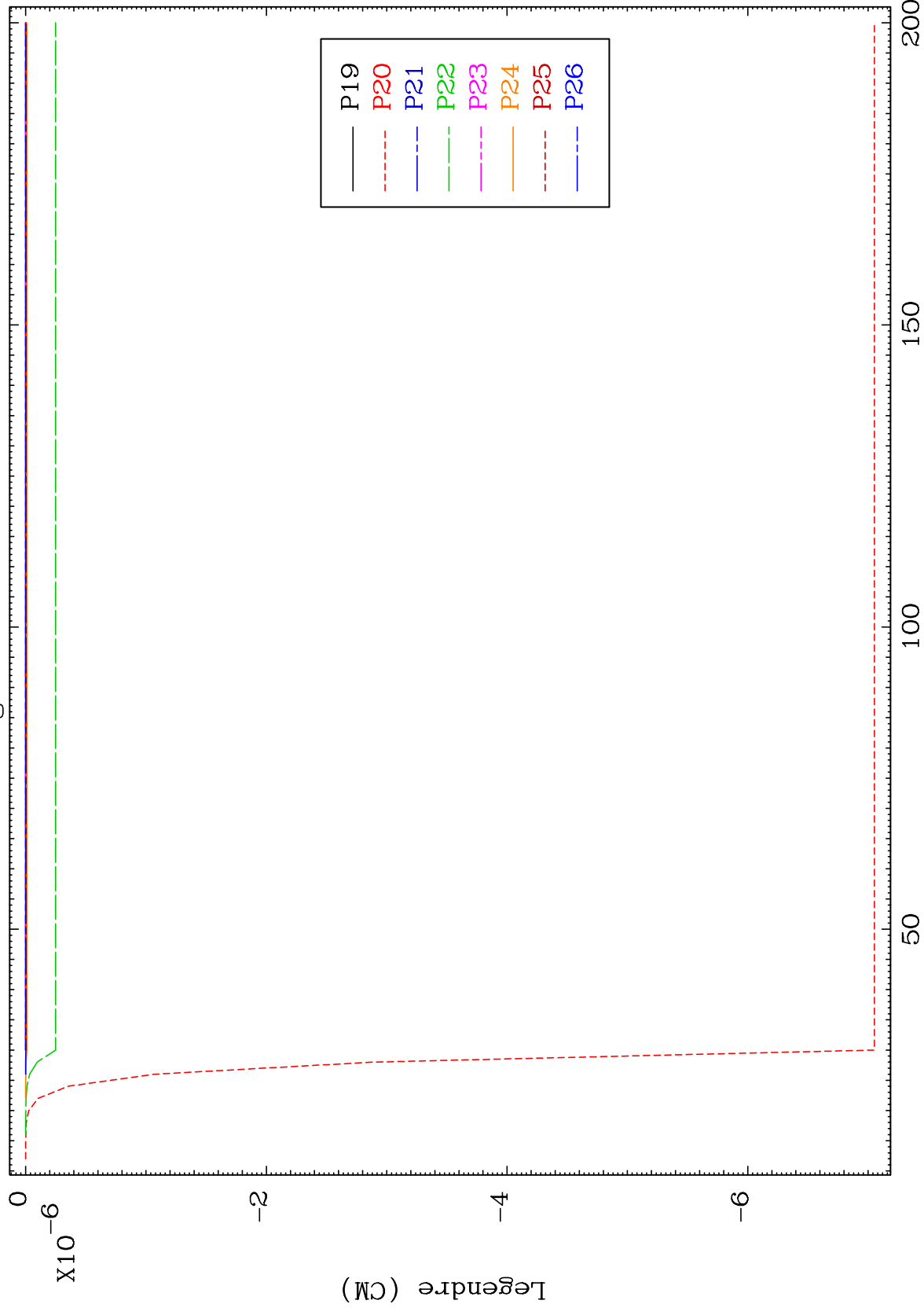
Incident Energy (MeV)

64-Gd-142

MAT 6395

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

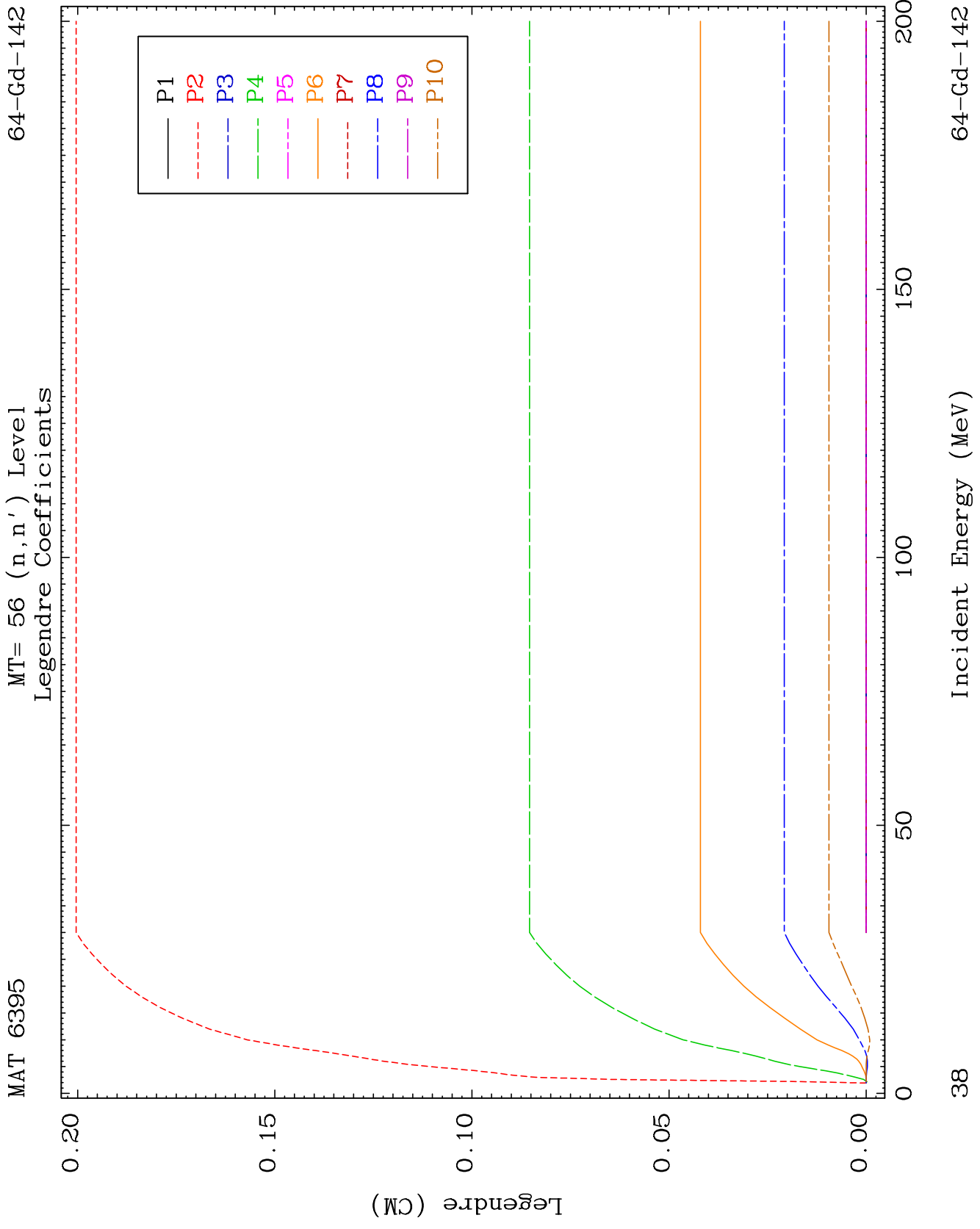
64-Gd-142



37

Incident Energy (MeV)

64-Gd-142



64-Gd-142

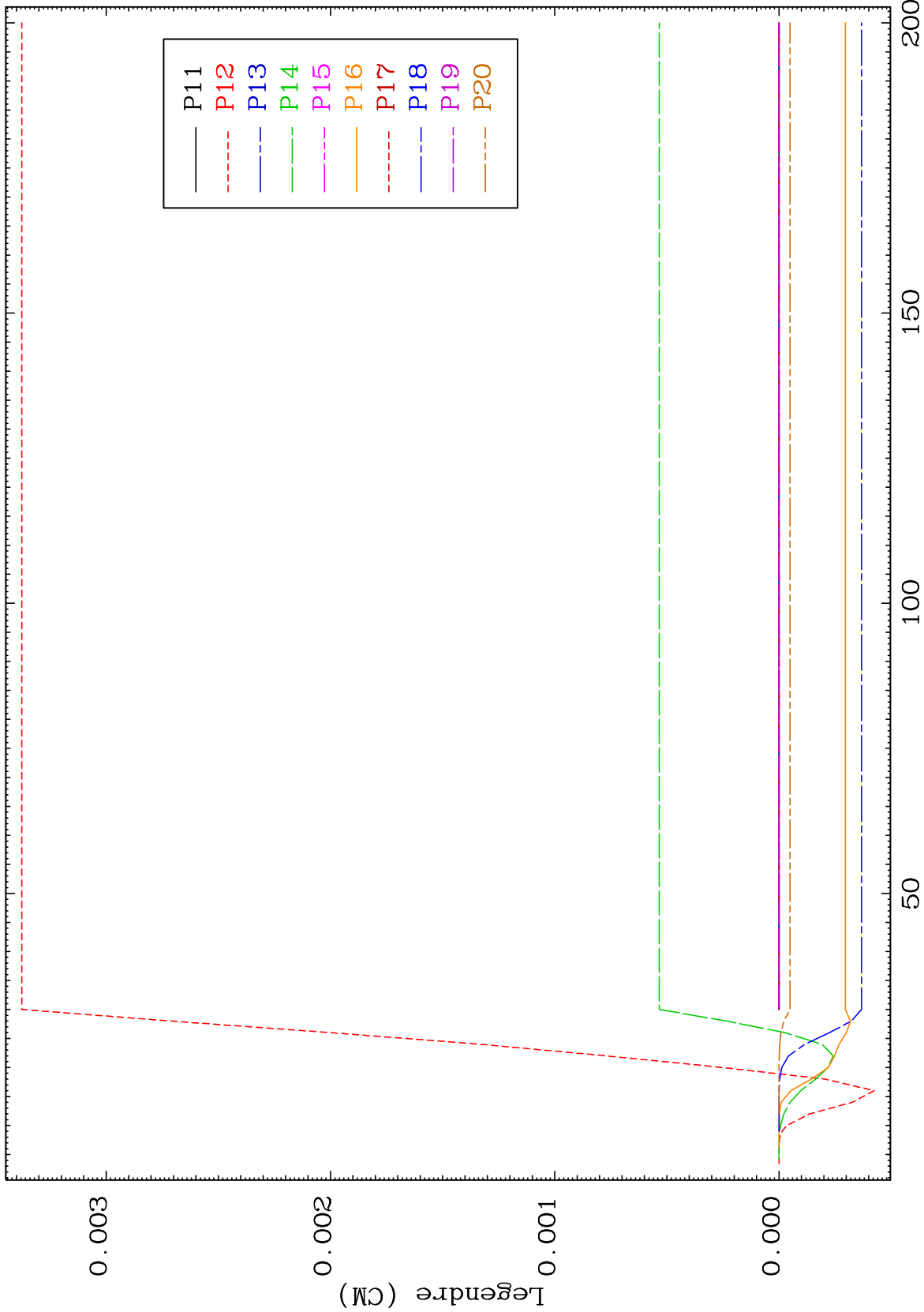
Incident Energy (MeV)

38

MAT 6395

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

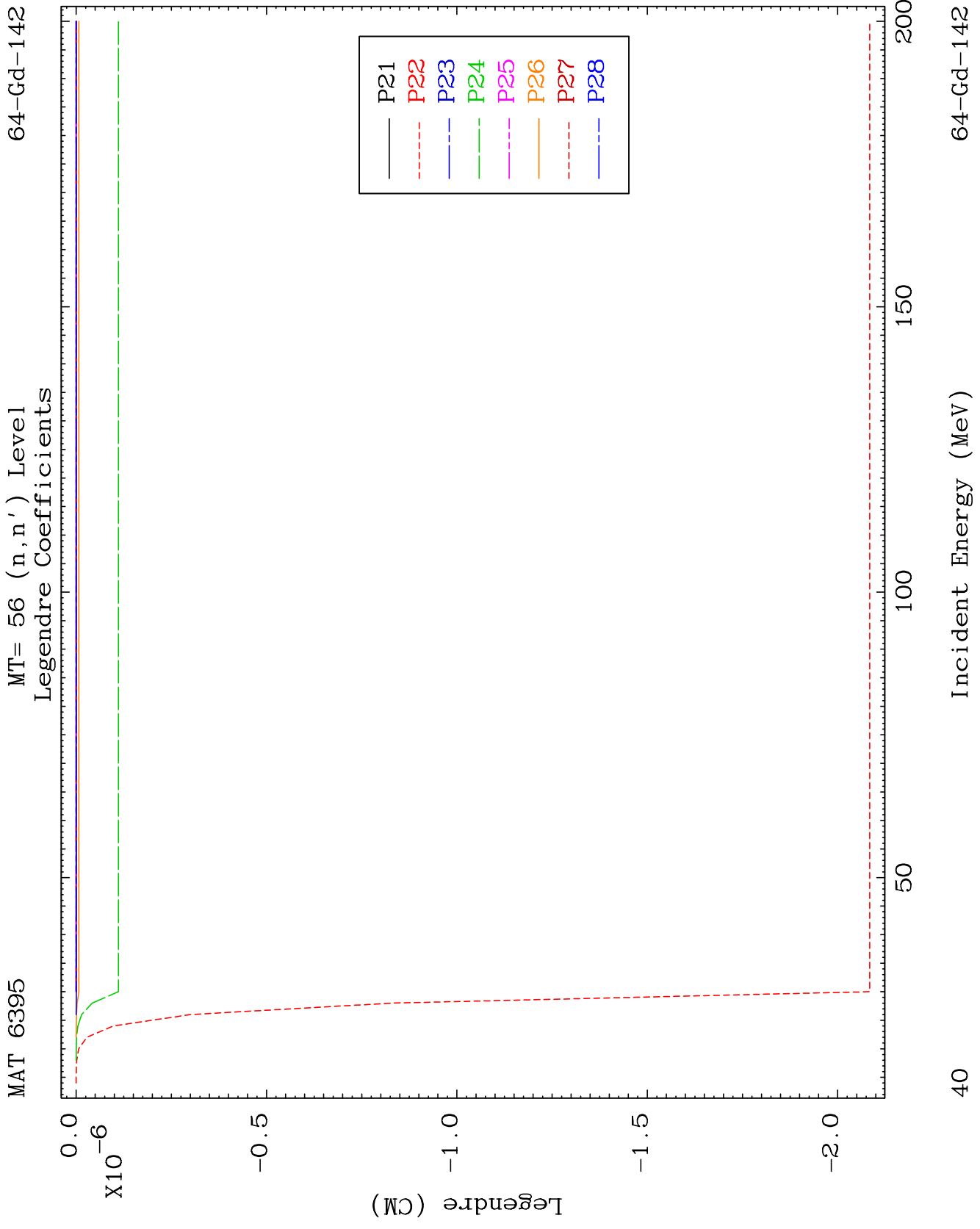
64-Gd-142



39

Incident Energy (MeV)

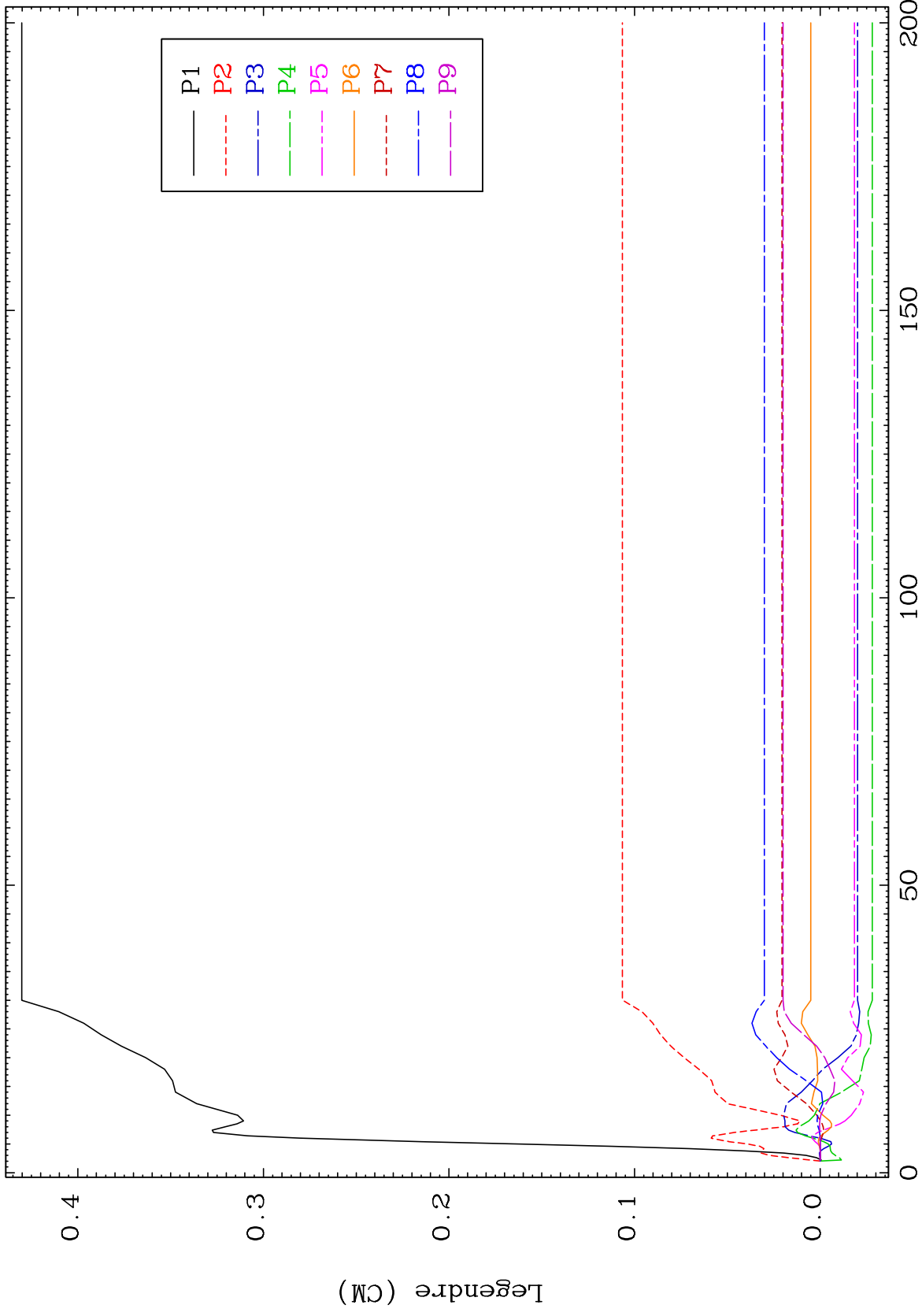
64-Gd-142



MAT 6395

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

64-Gd-142



41

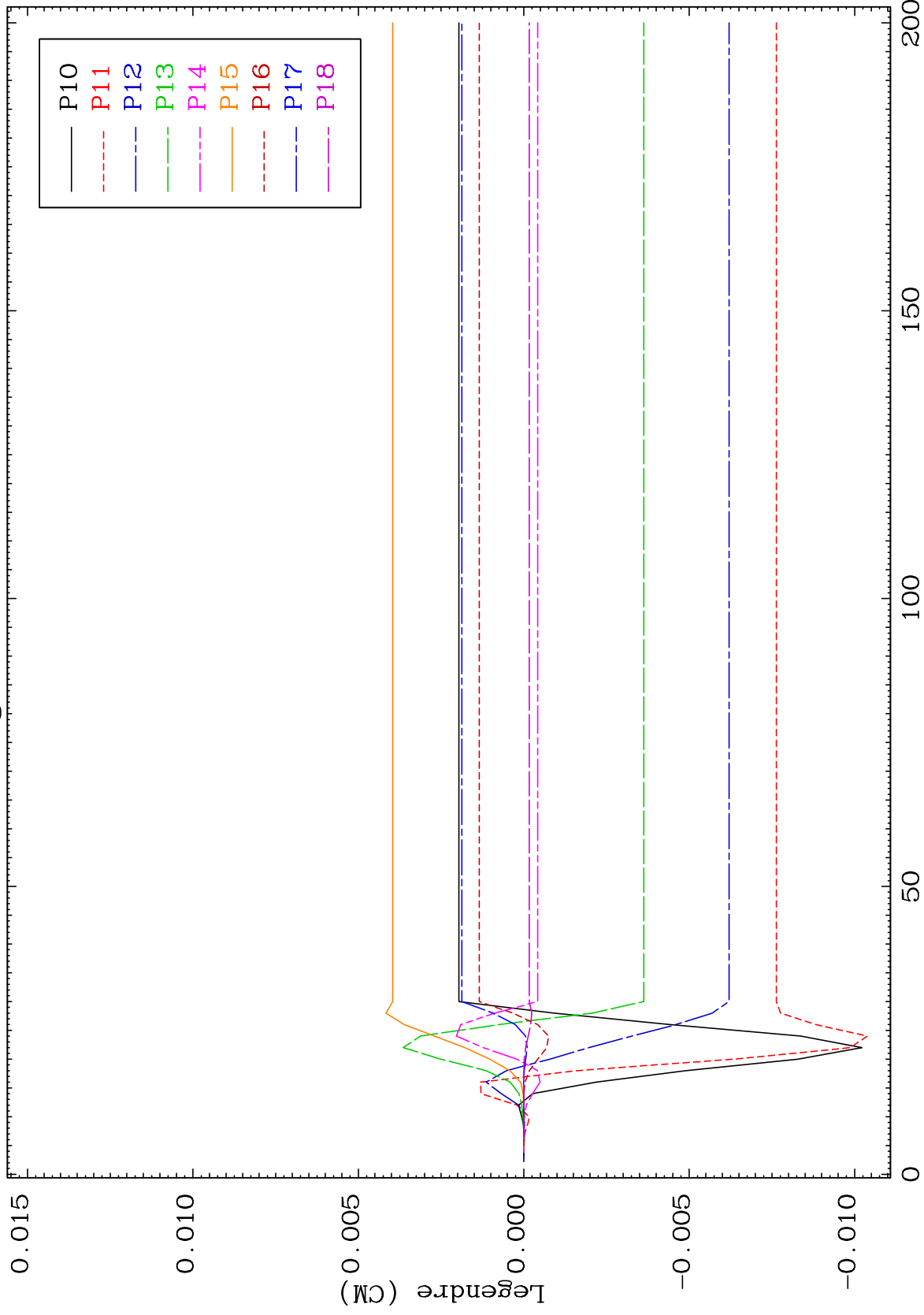
Incident Energy (MeV)

64-Gd-142

MAT 6395

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

64-Gd-142



42

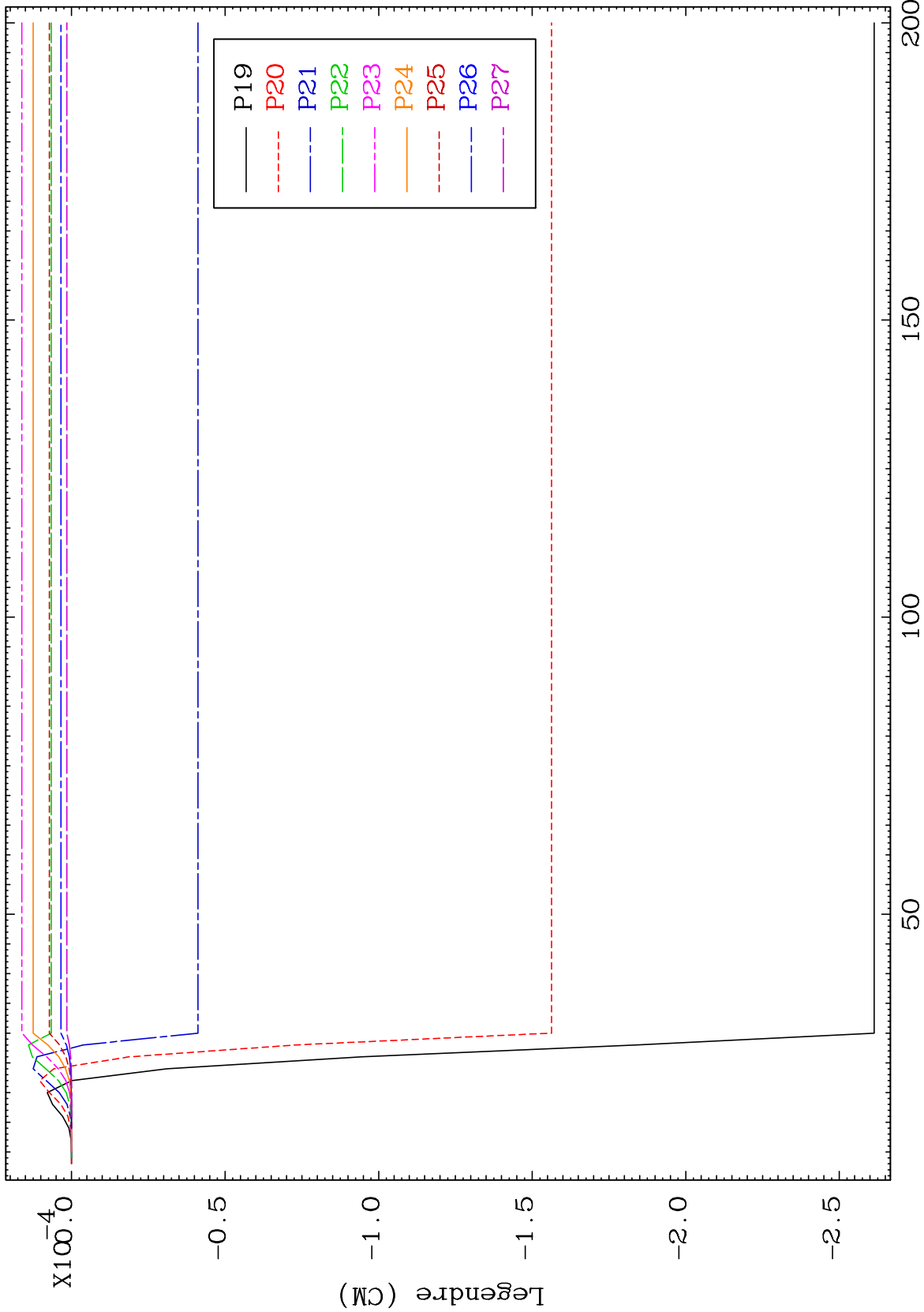
Incident Energy (MeV)

64-Gd-142

MAT 6395

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

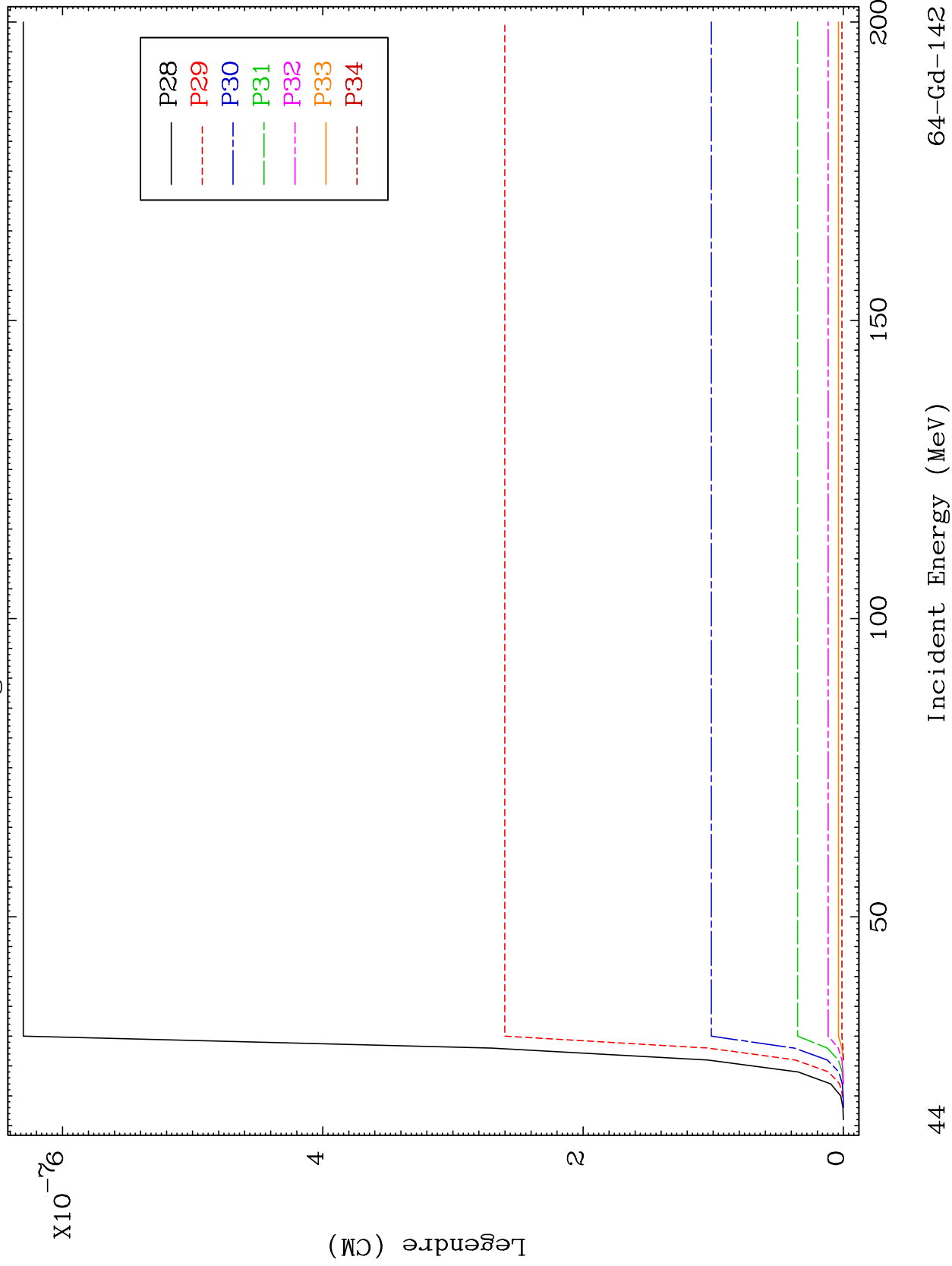
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MAT 6395

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

64-Gd-142



44

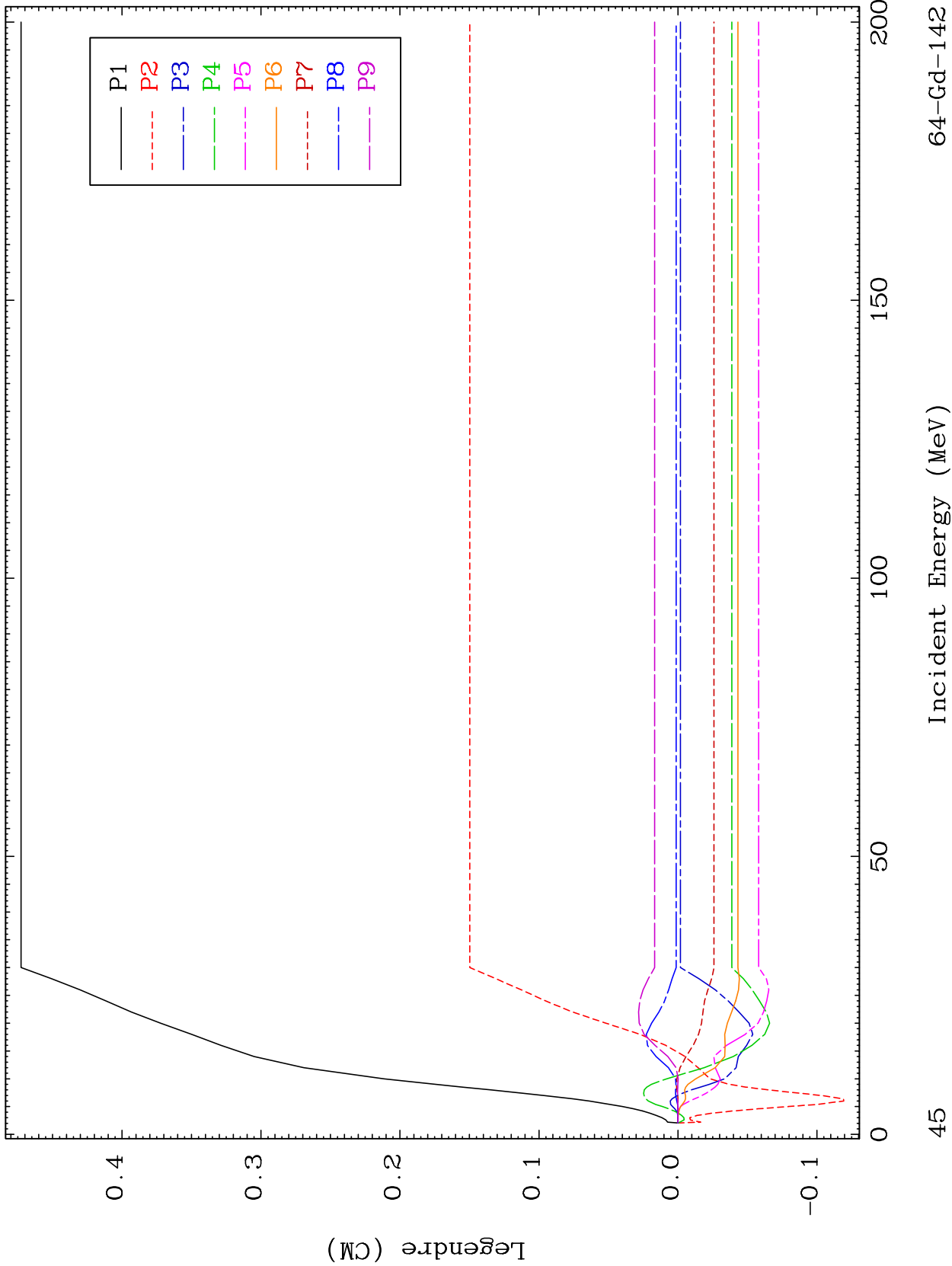
Incident Energy (MeV)

64-Gd-142

MAT 6395

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

64-Gd-142



64-Gd-142

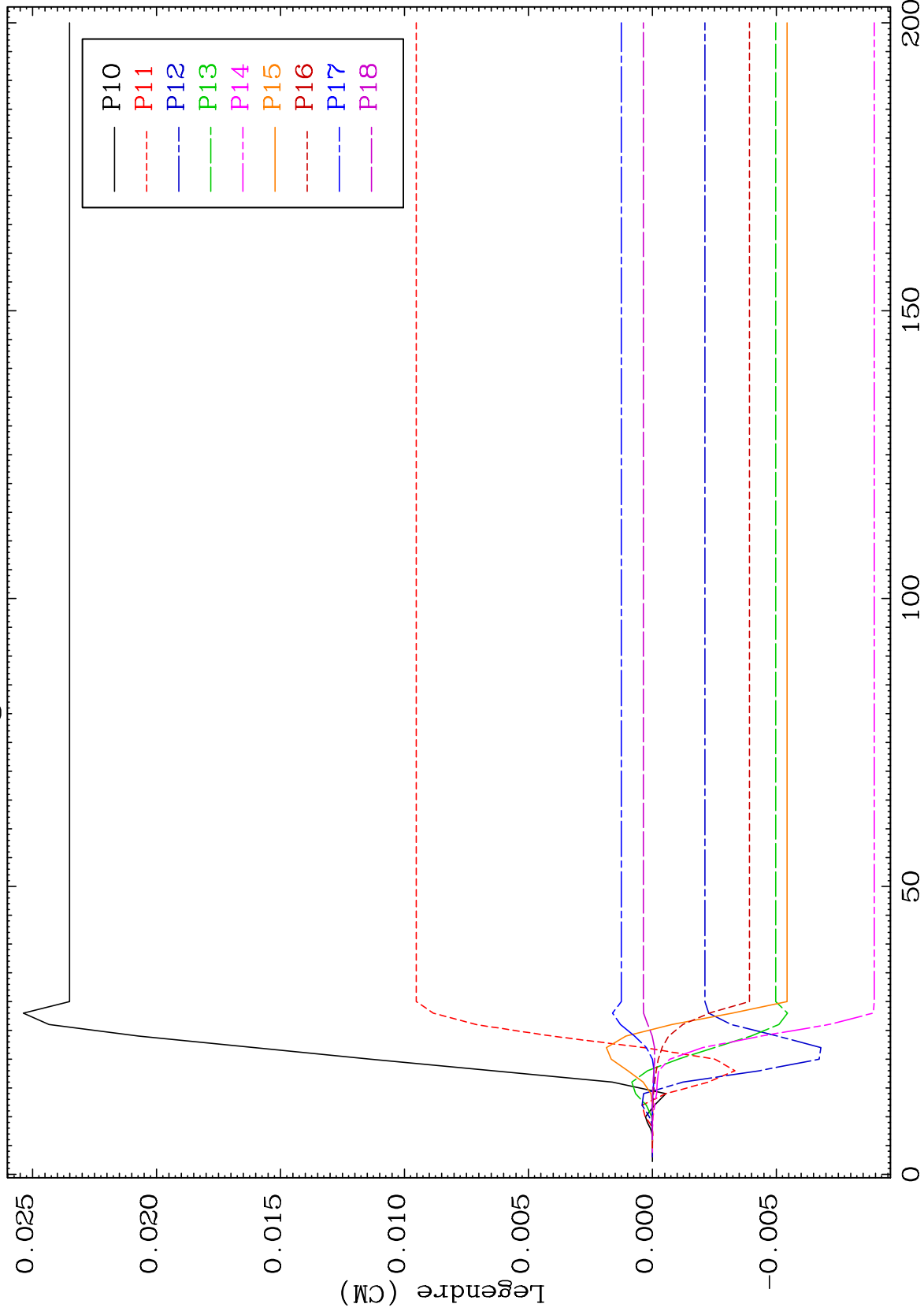
Incident Energy (MeV)

45

MAT 6395

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

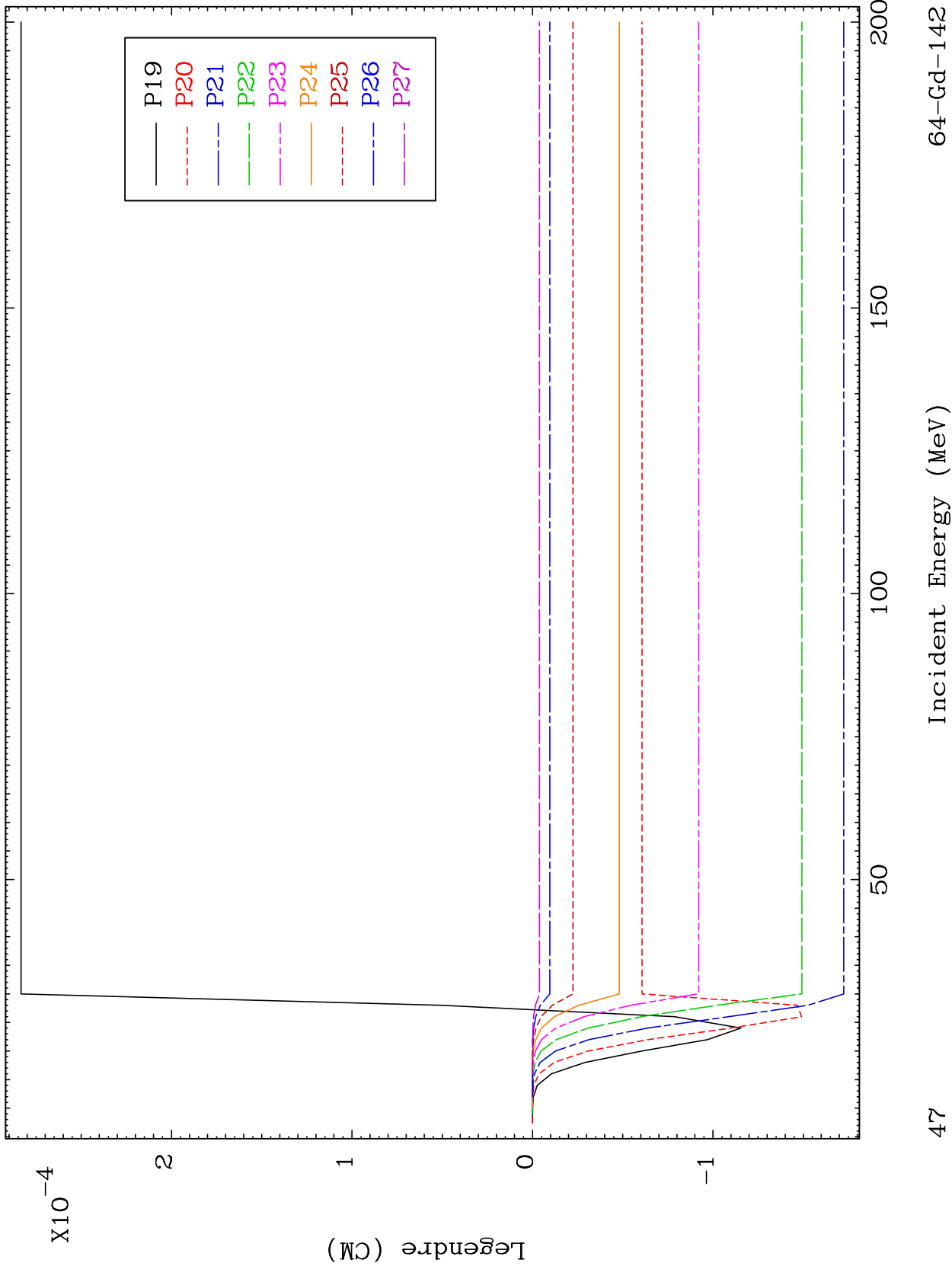
64-Gd-142



46

Incident Energy (MeV)

64-Gd-142

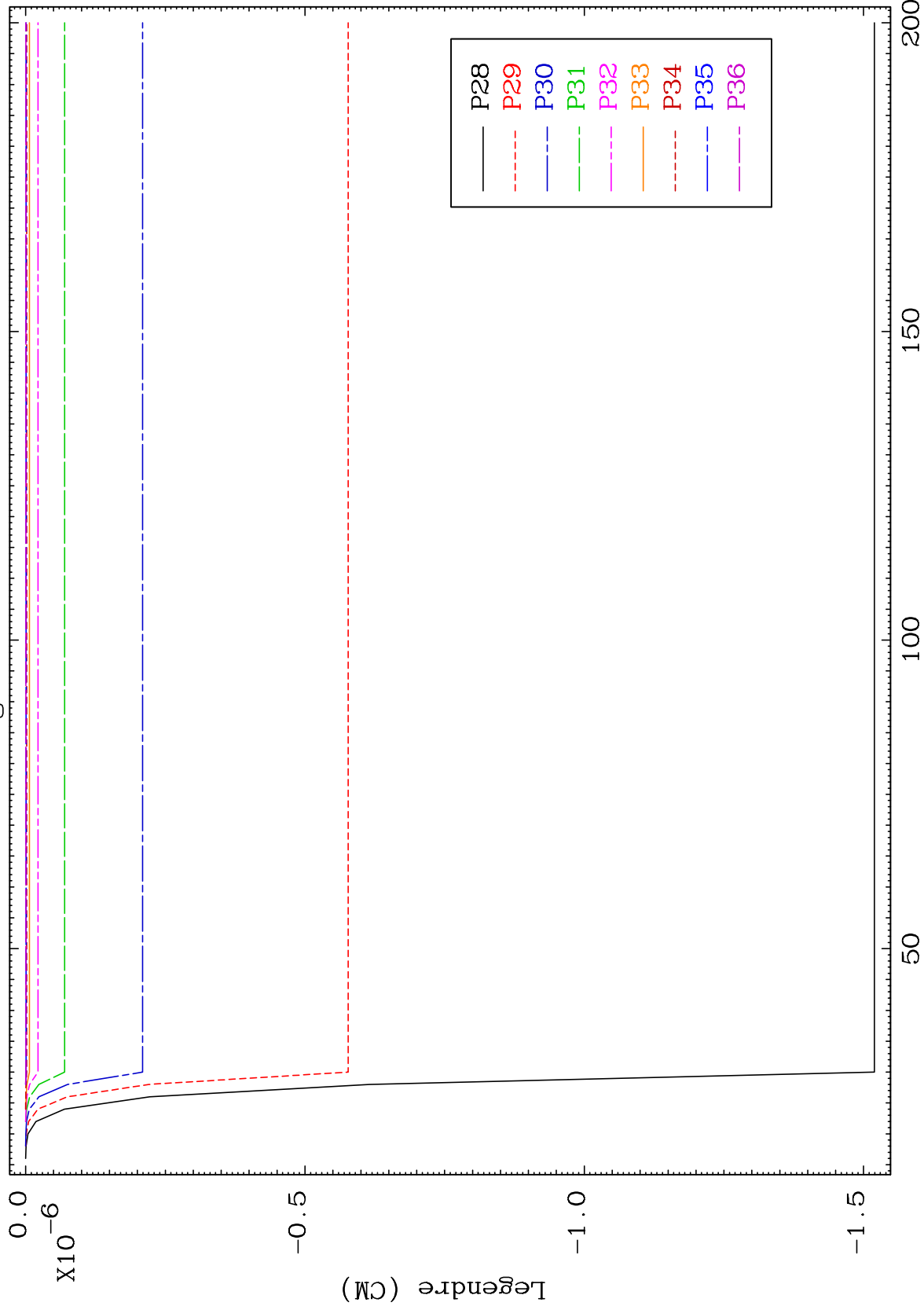


MAT 6395

MT= 58 (n,n') Level

64-Gd-142

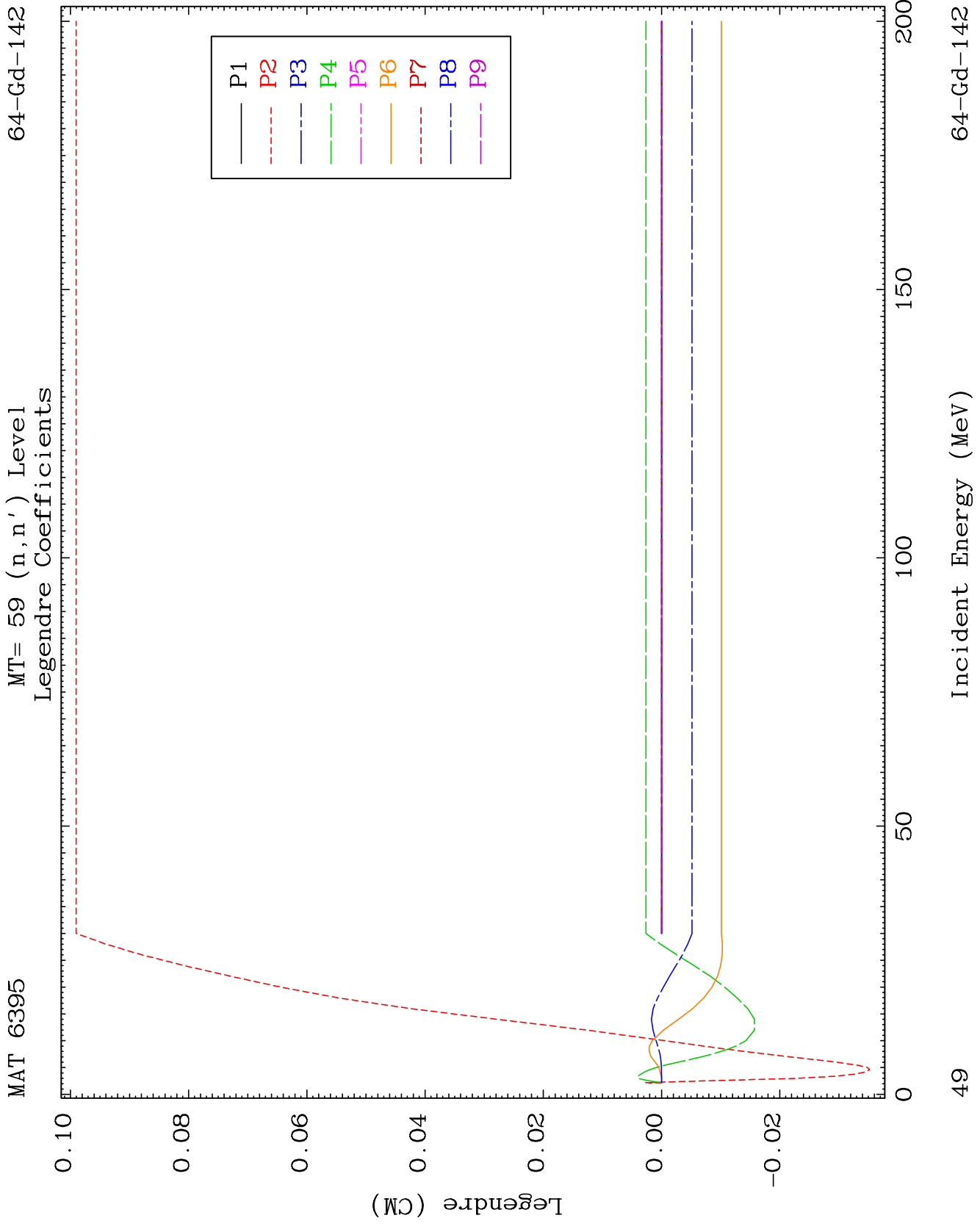
Legendre Coefficients



48

Incident Energy (MeV)

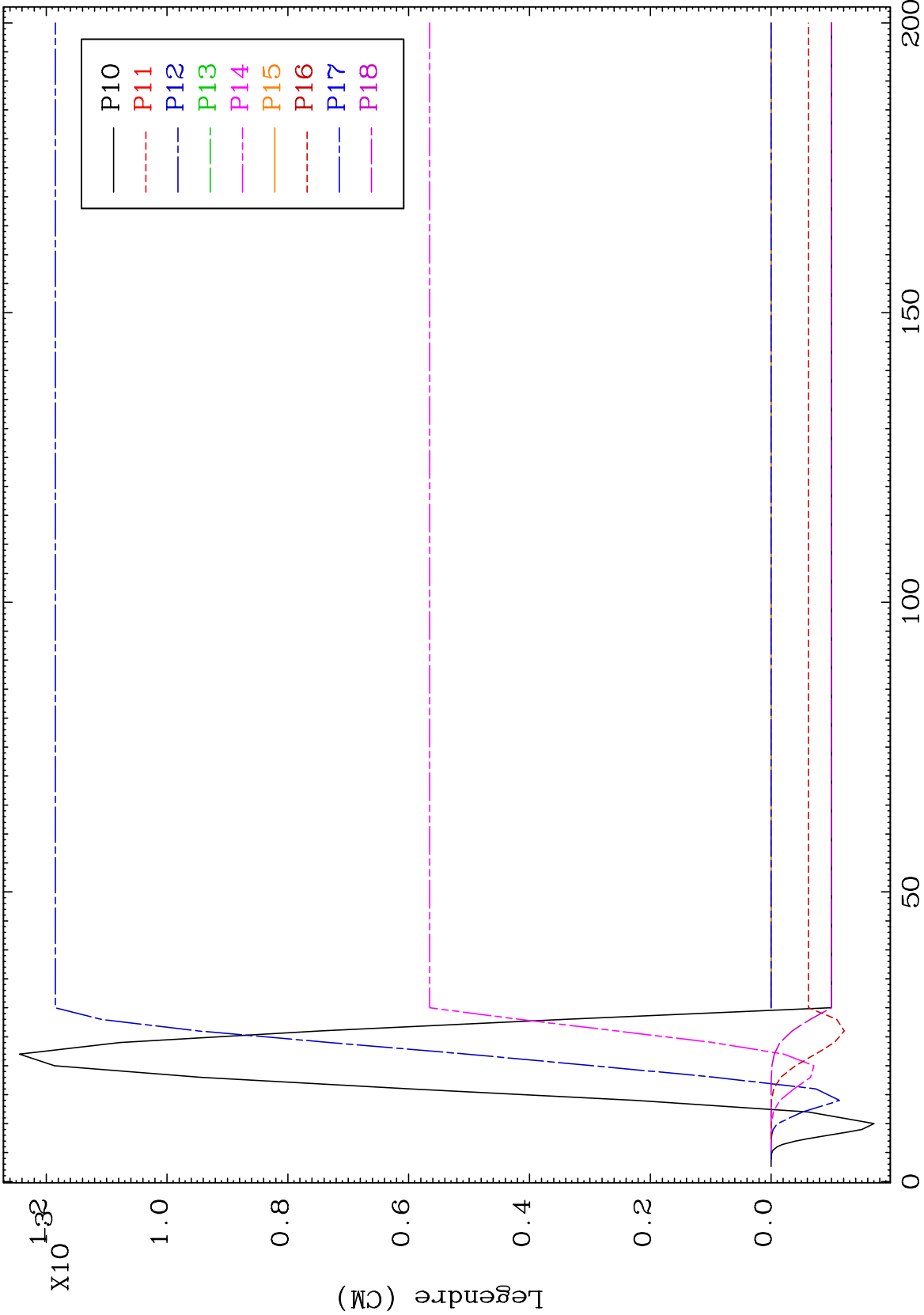
64-Gd-142



MAT 6395

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

64-Gd-142



50

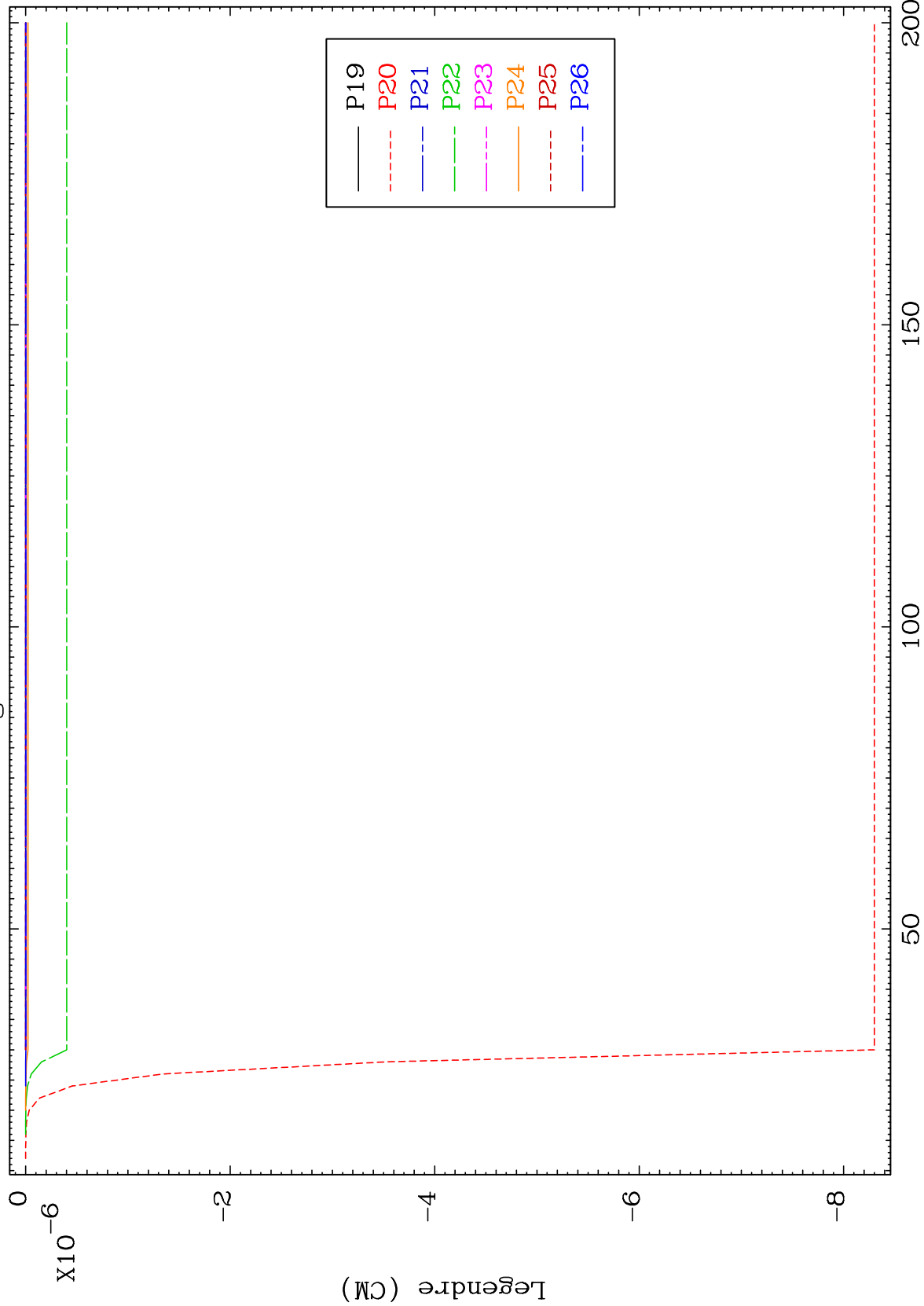
Incident Energy (MeV)

64-Gd-142

MAT 6395

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

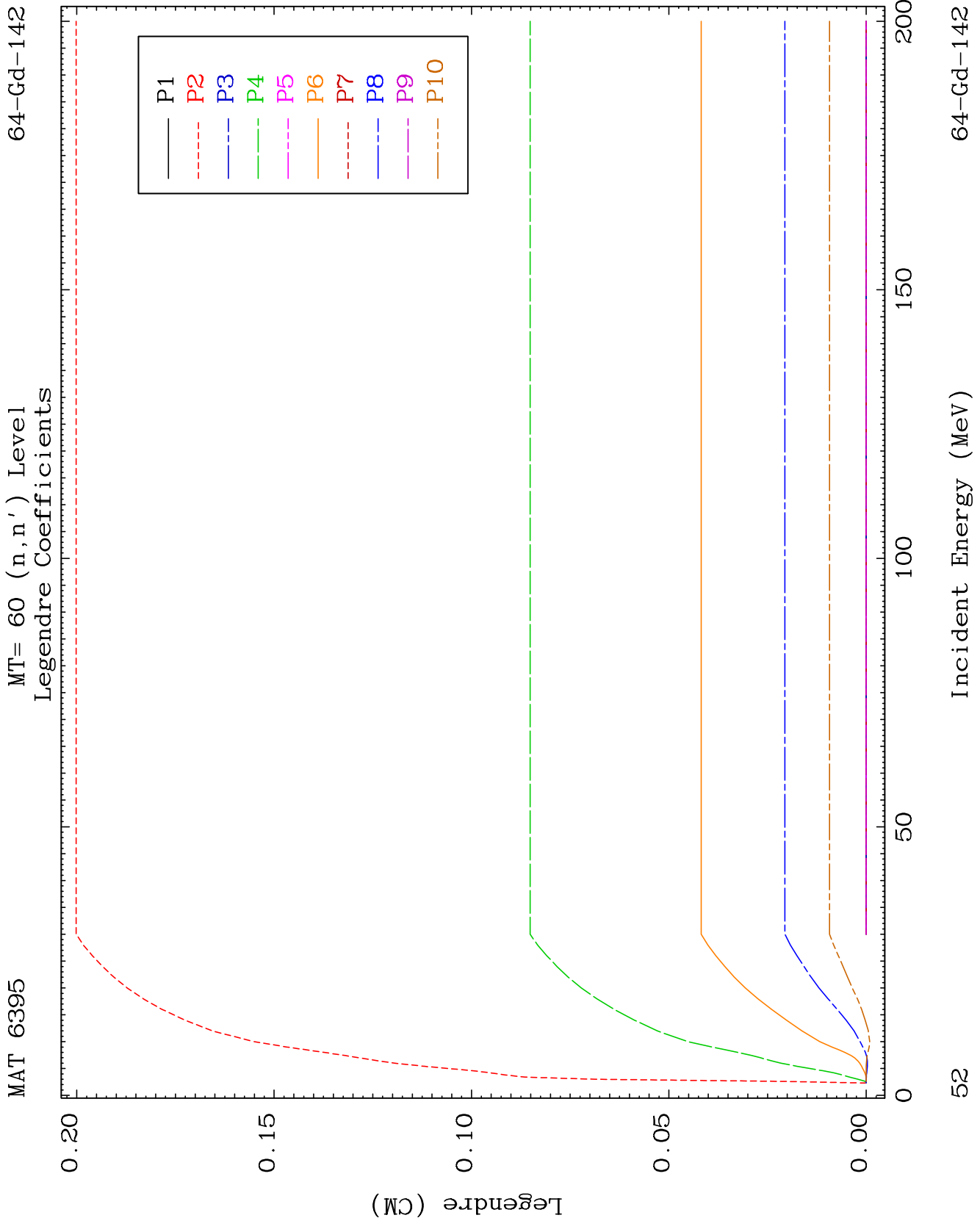
64-Gd-142



51

Incident Energy (MeV)

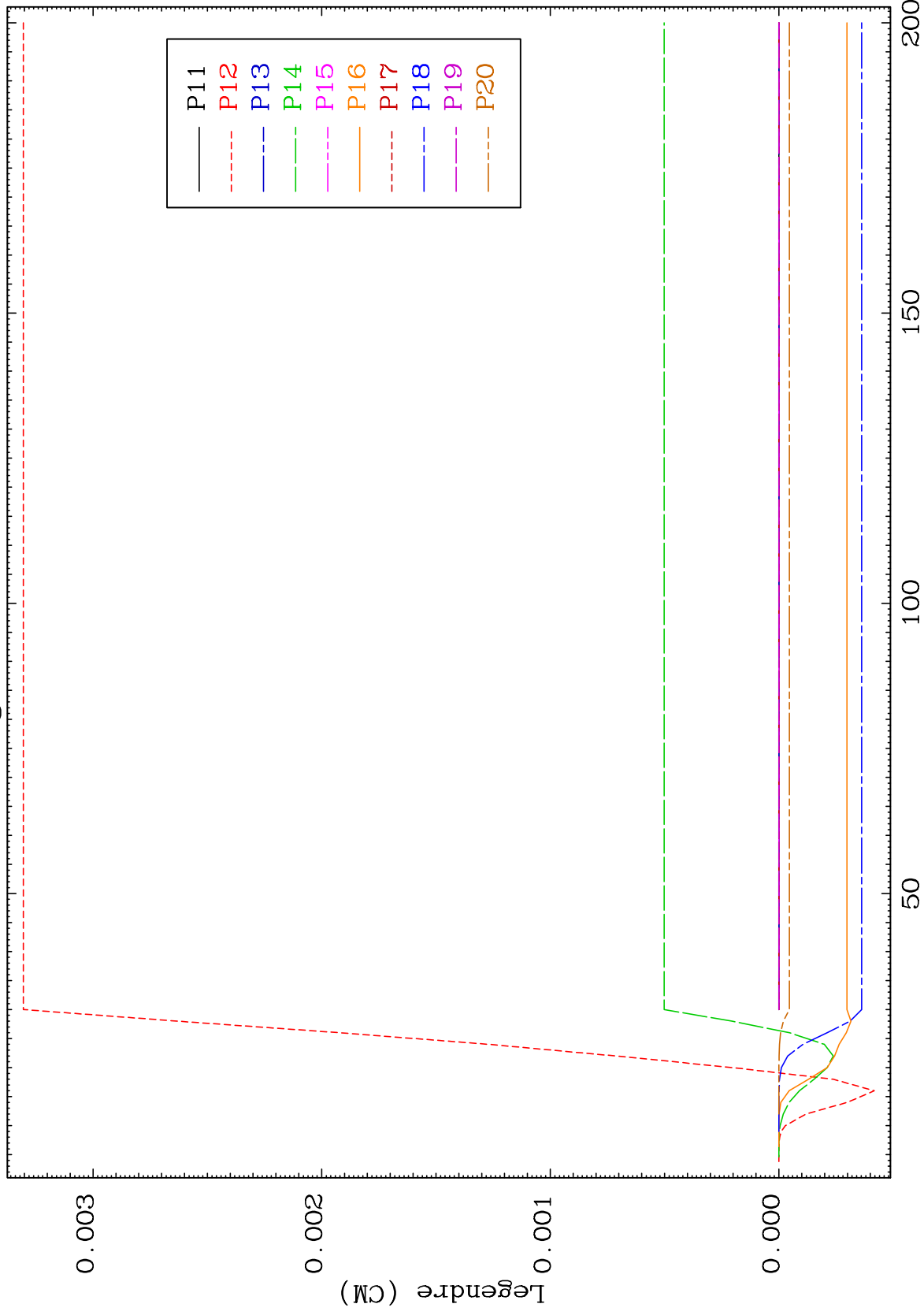
64-Gd-142



MAT 6395

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

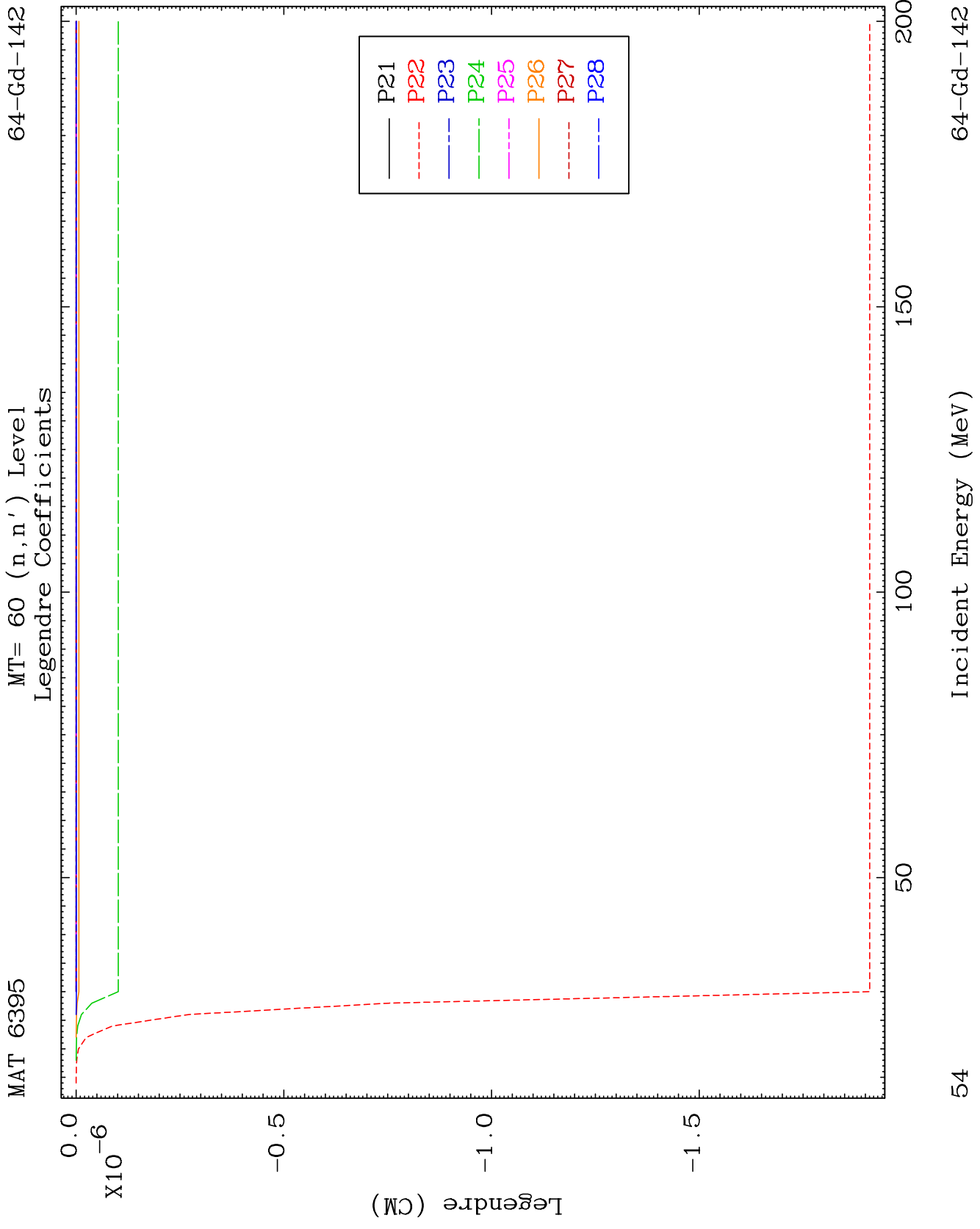
64-Gd-142



53

Incident Energy (MeV)

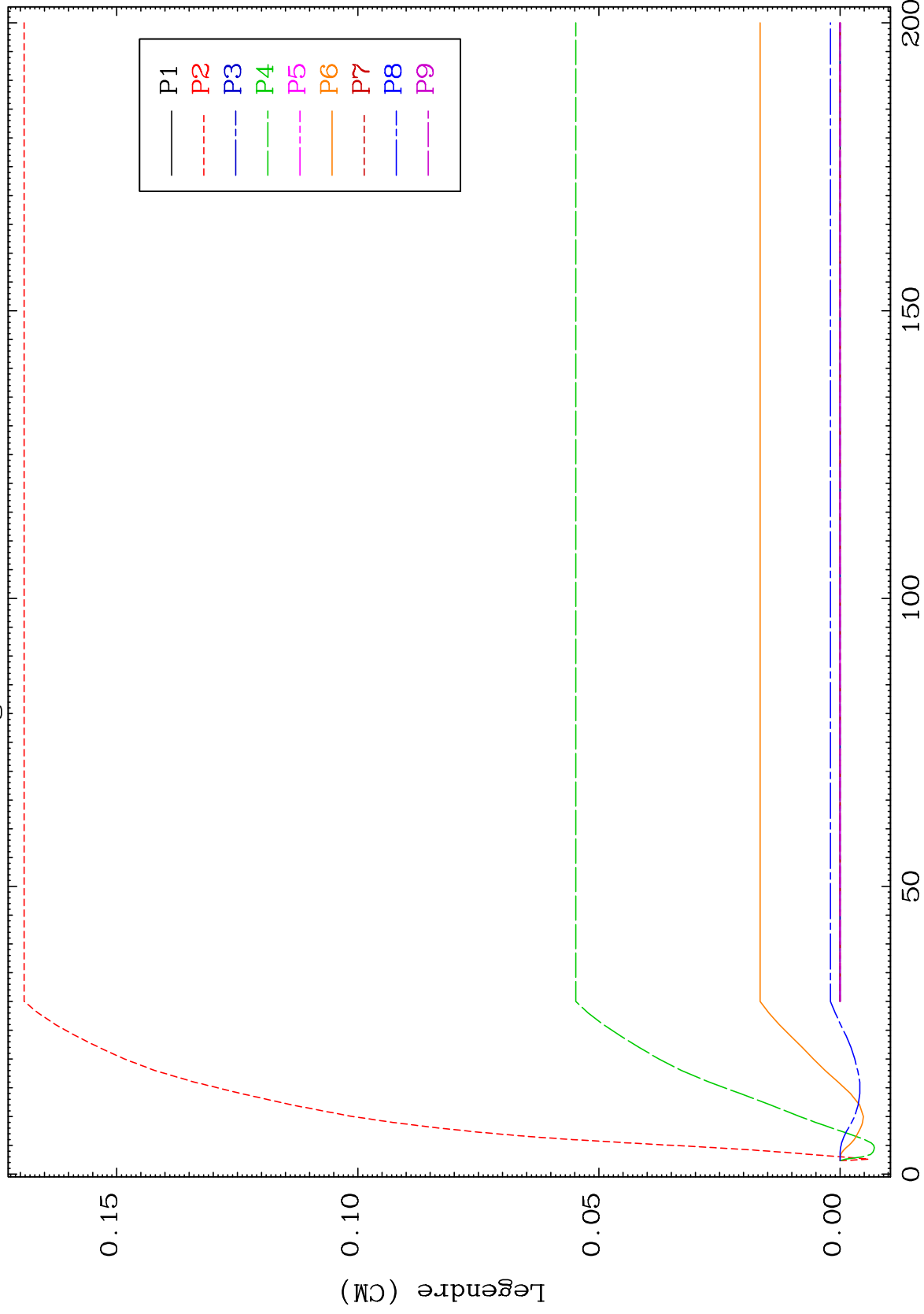
64-Gd-142



MAT 6395

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

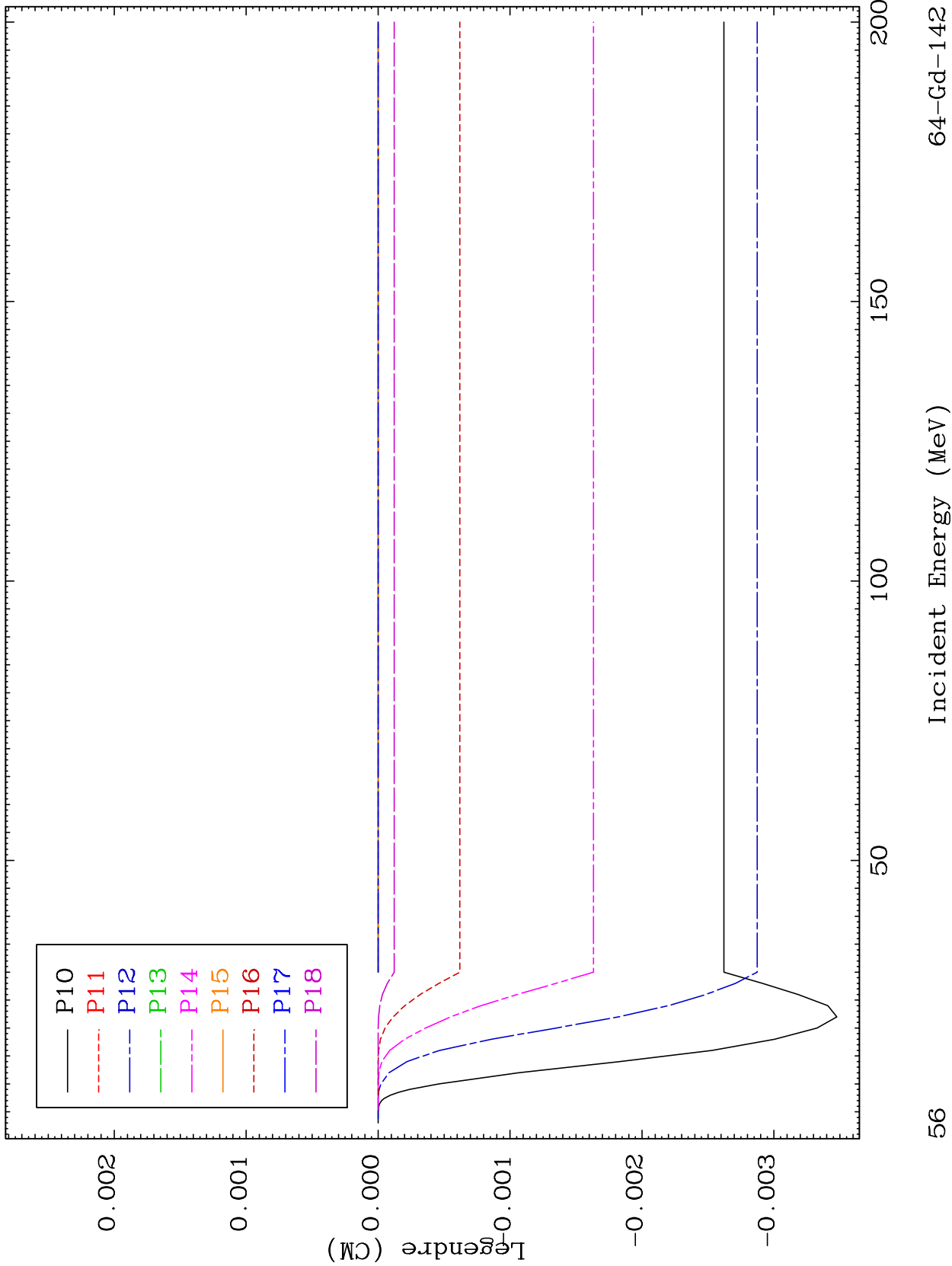
64-Gd-142



64-Gd-142

Incident Energy (MeV)

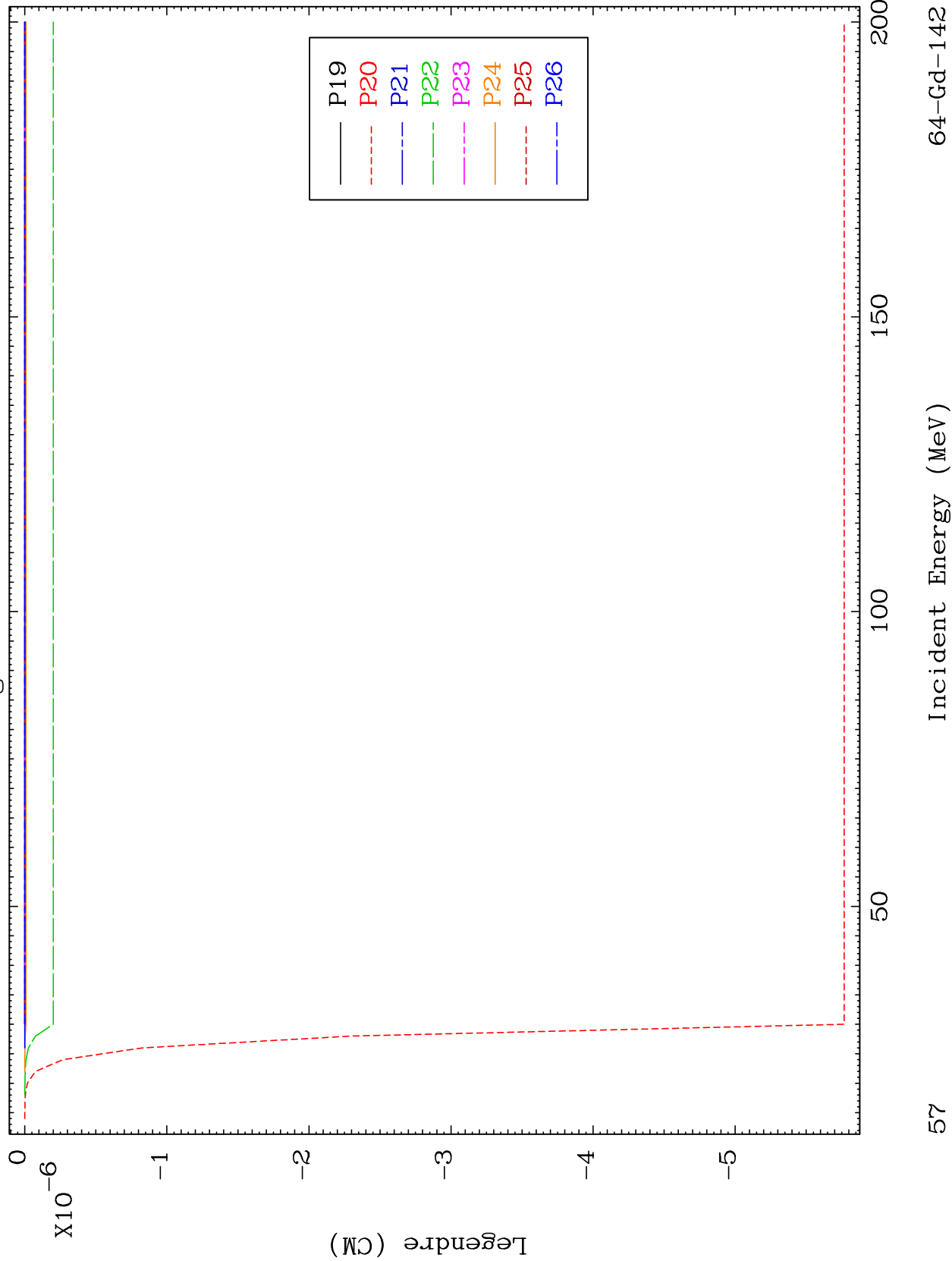
55



MAT 6395

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

64-Gd-142



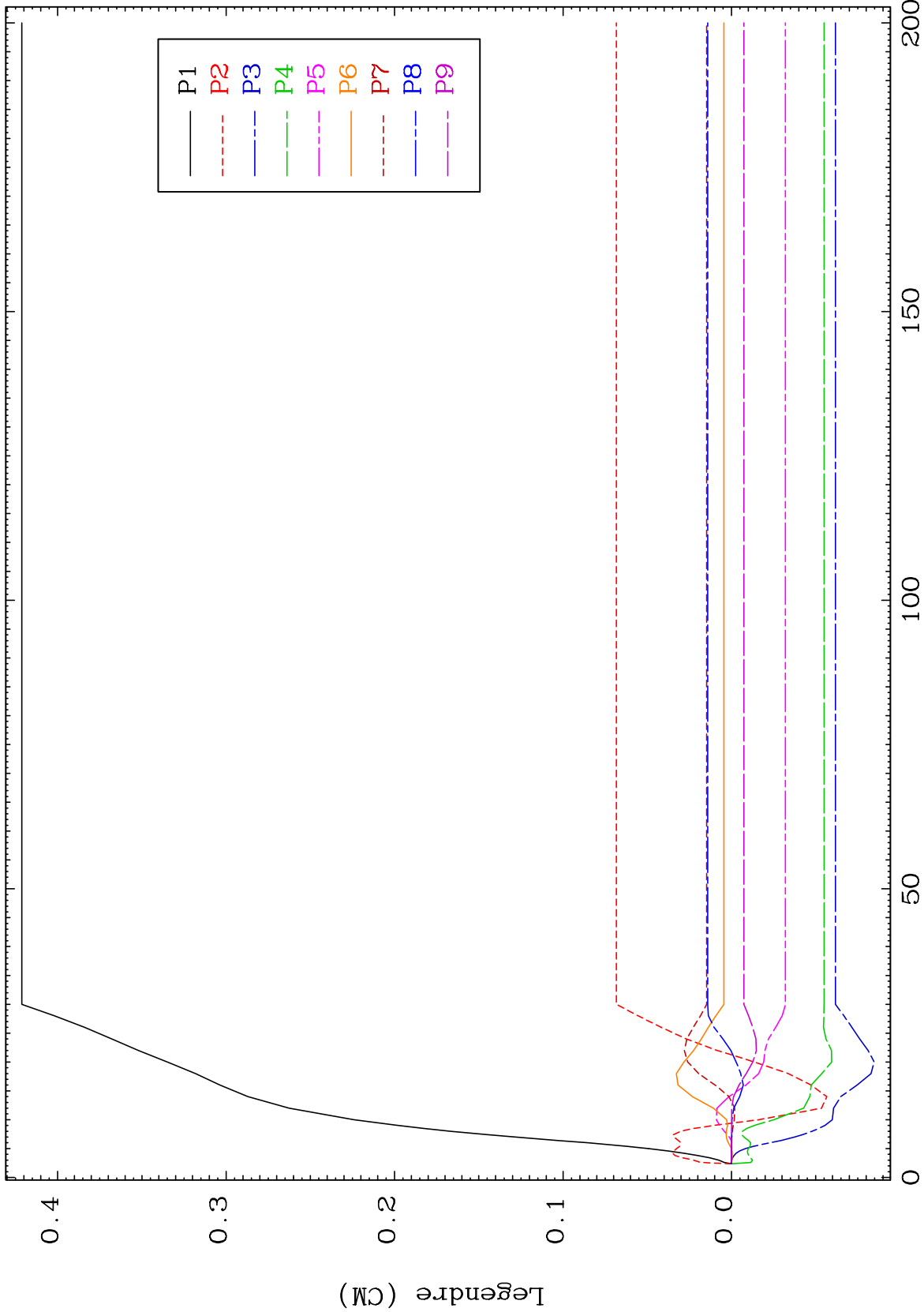
57

64-Gd-142

MAT 6395

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

64-Gd-142



58

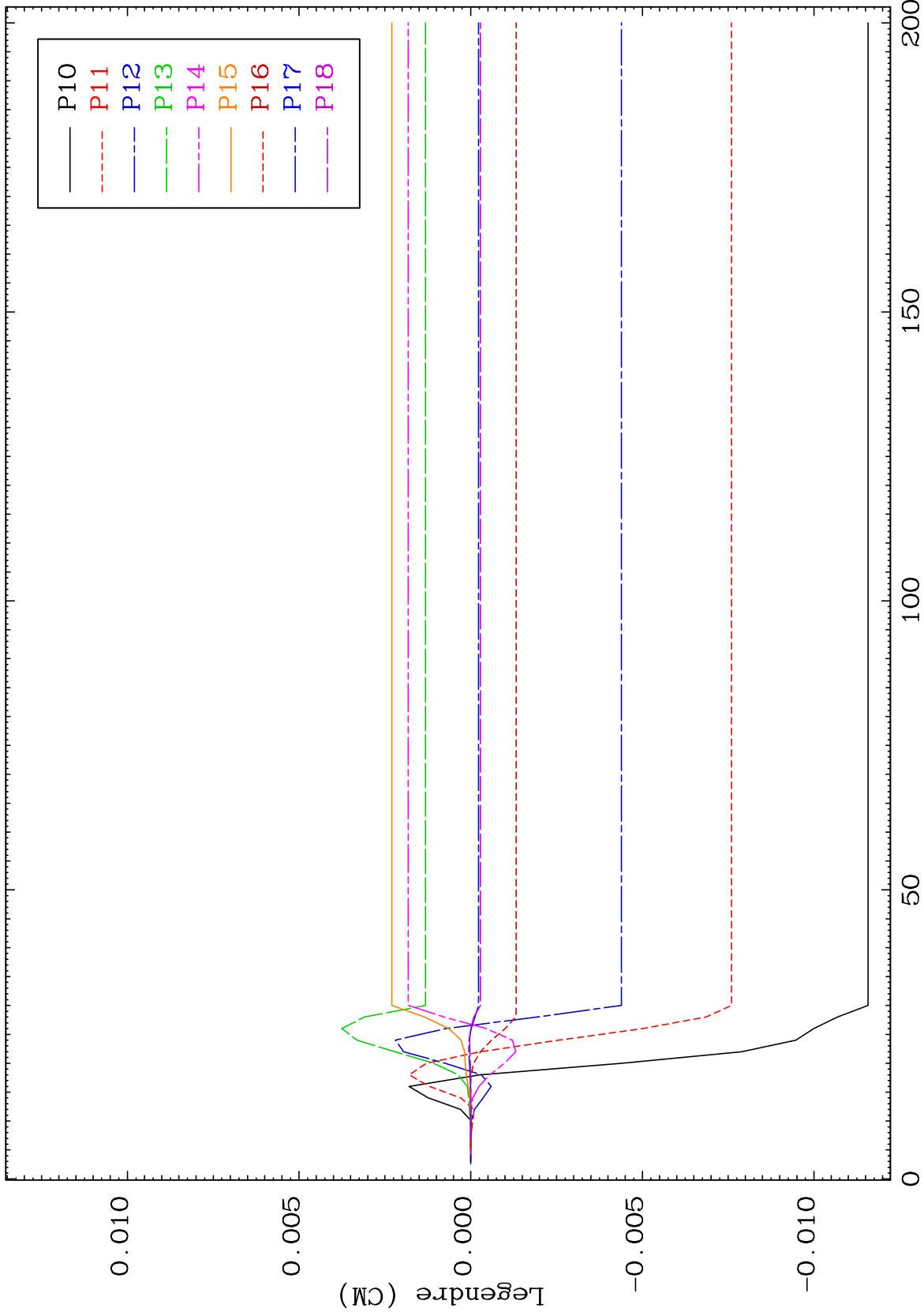
Incident Energy (MeV)

64-Gd-142

MAT 6395

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

64-Gd-142



59

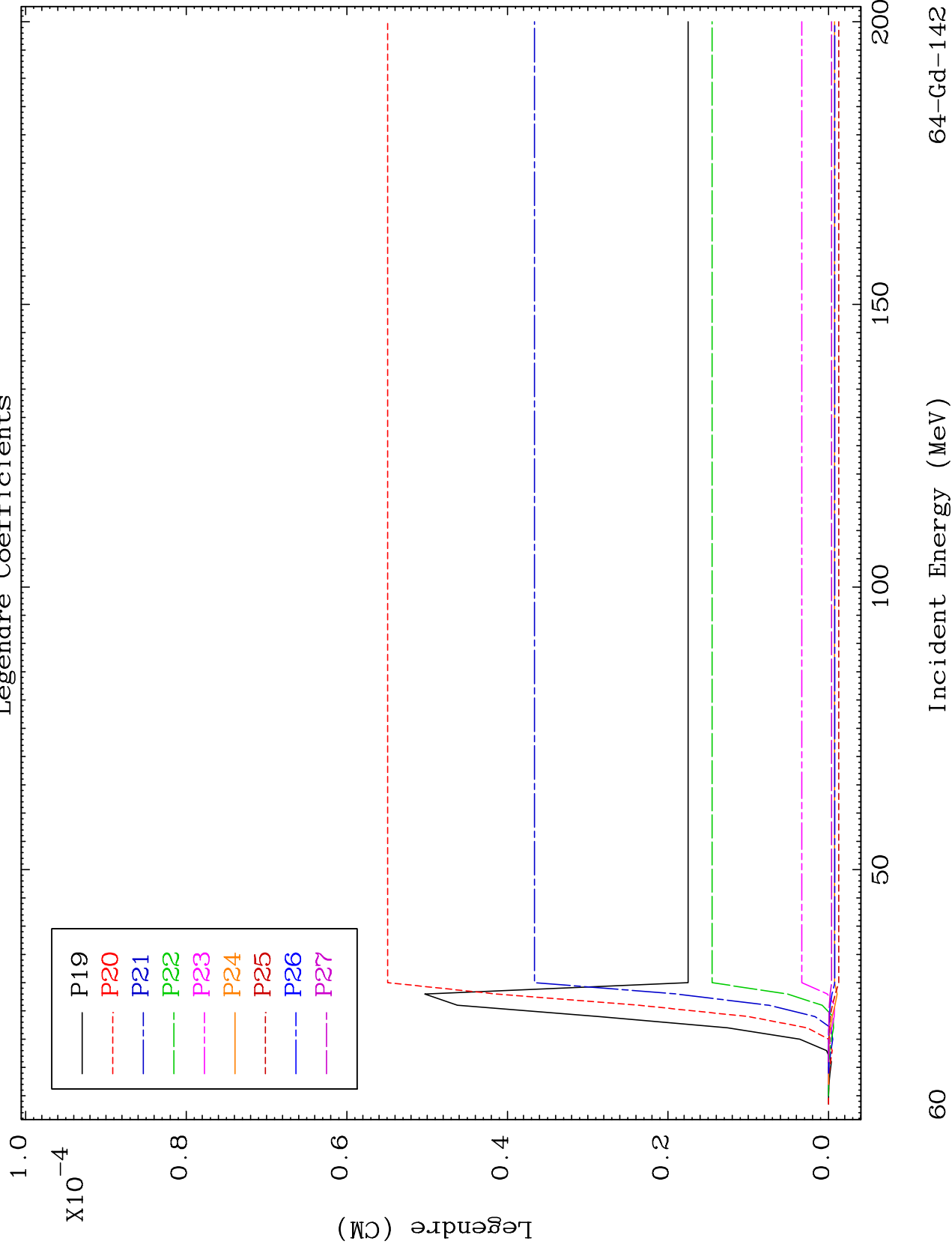
Incident Energy (MeV)

64-Gd-142

MAT 6395

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

64-Gd-142



60

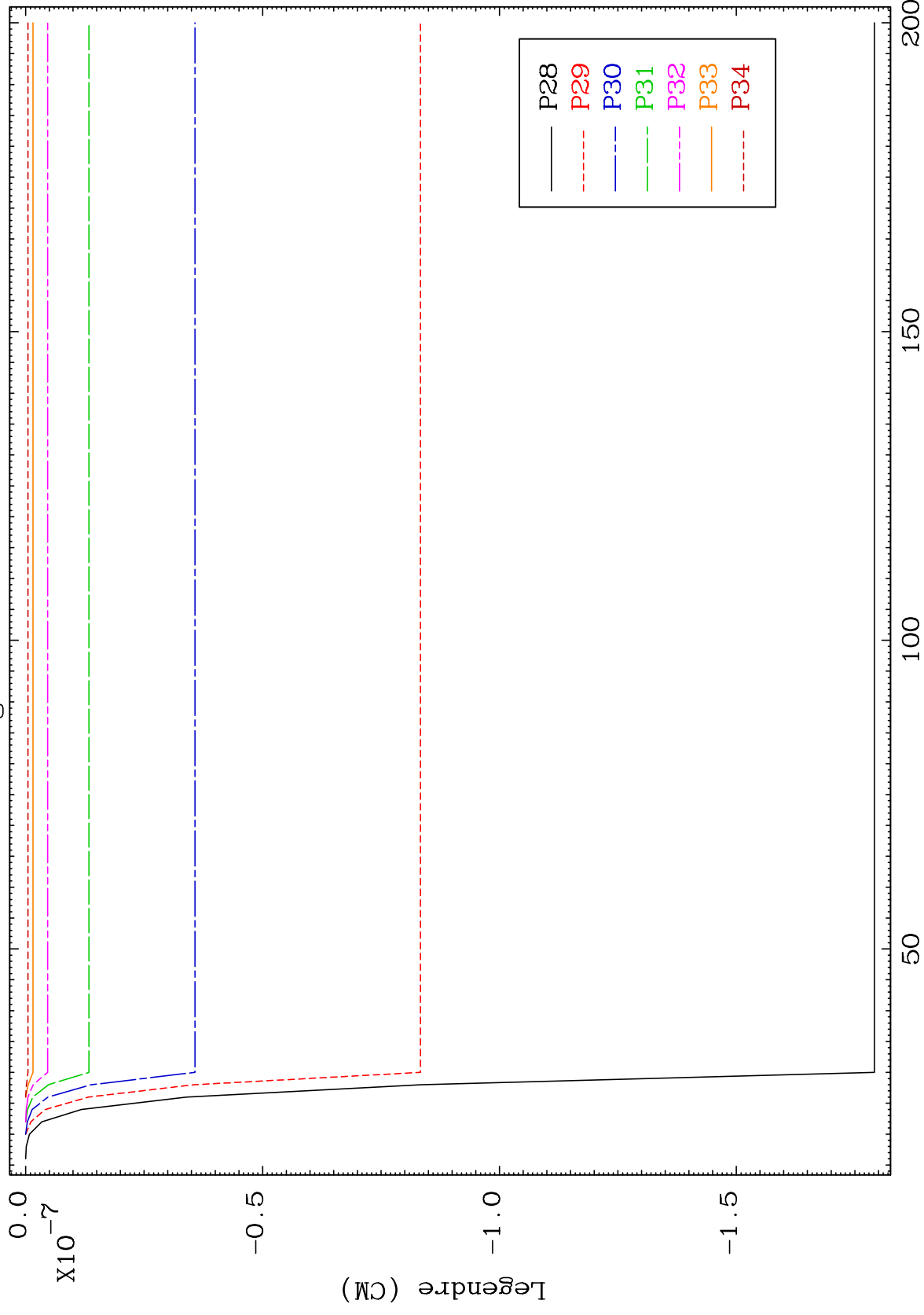
Incident Energy (MeV)

64-Gd-142

MAT 6395

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

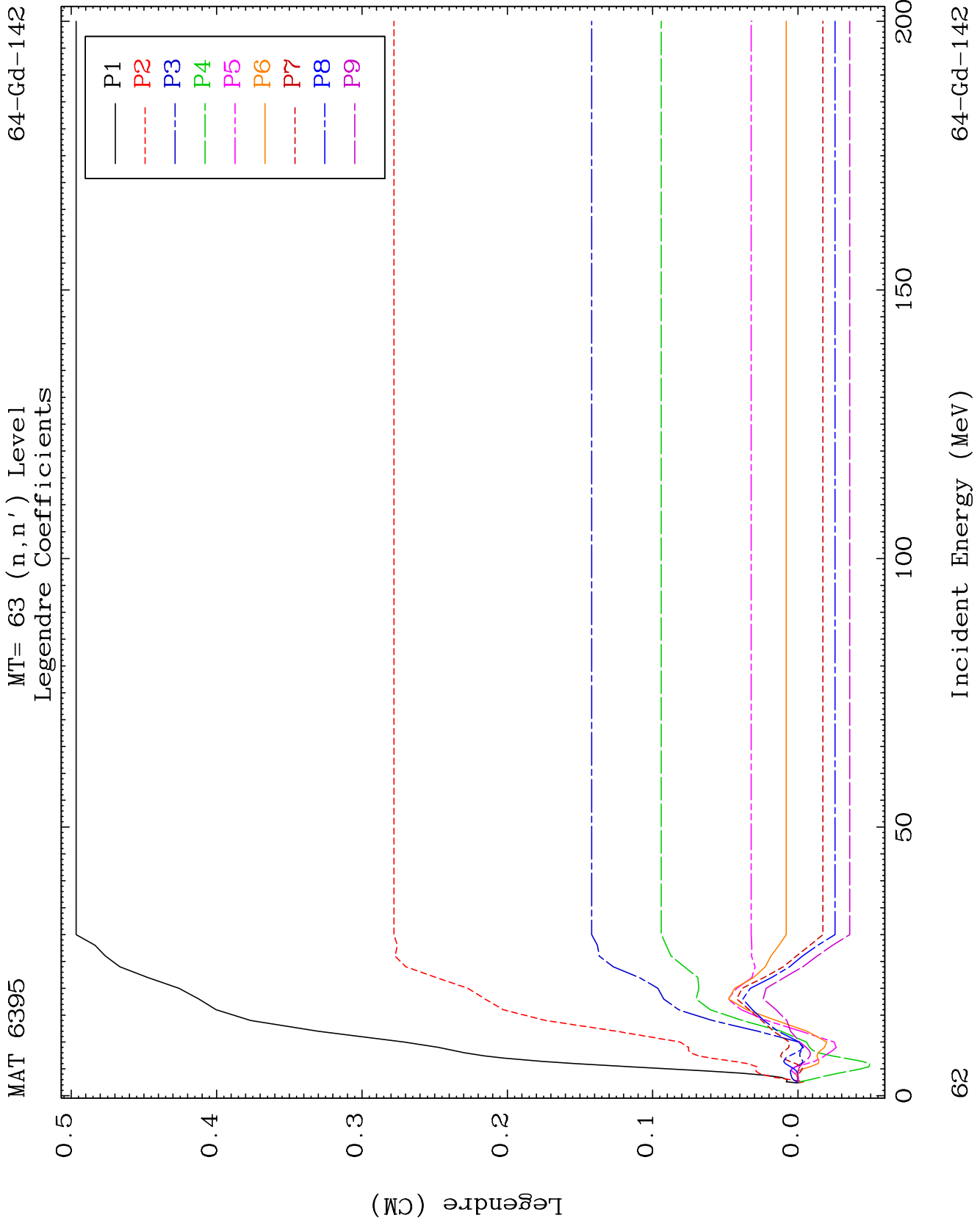
64-Gd-142



61

Incident Energy (MeV)

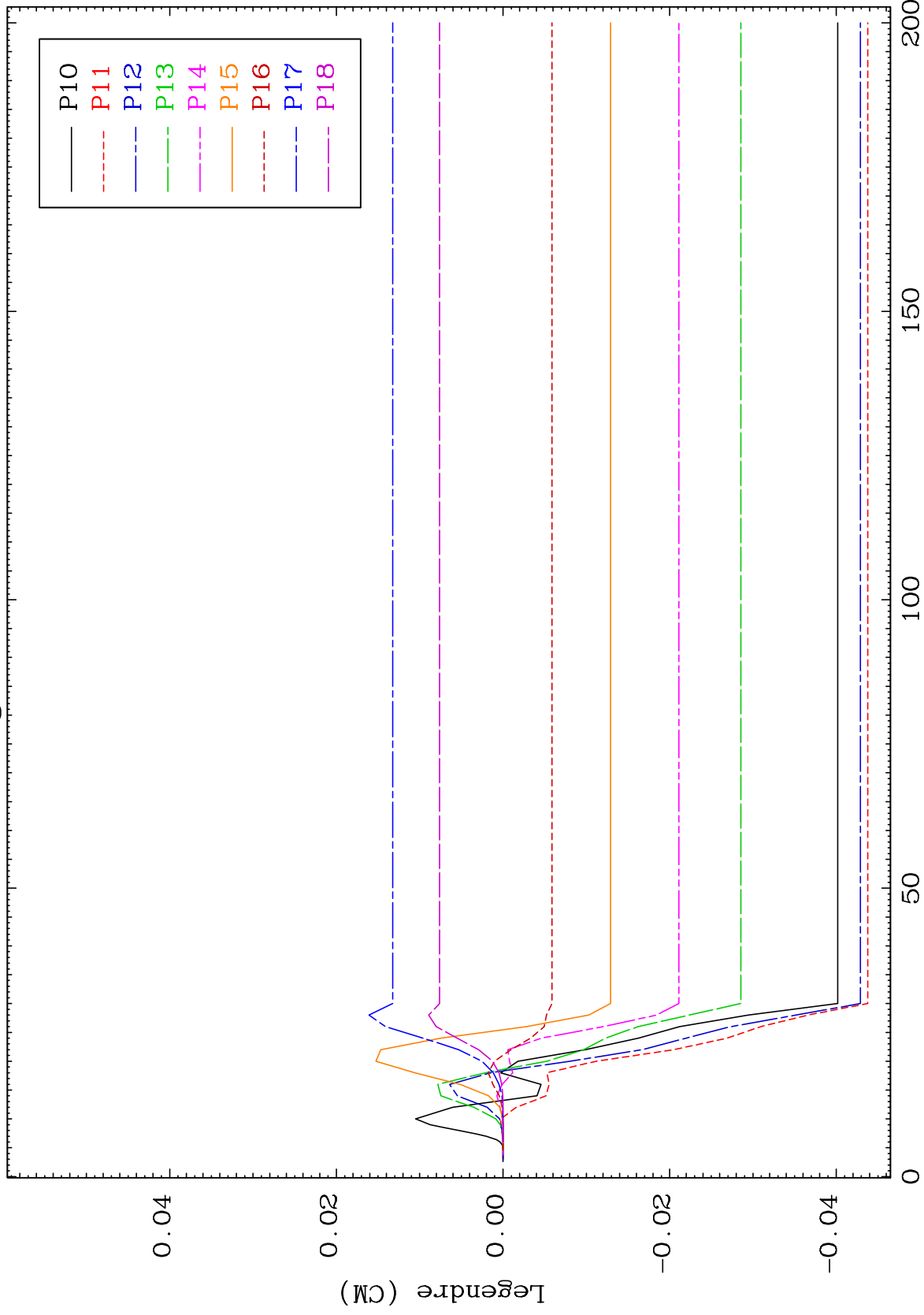
64-Gd-142



MAT 6395

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

64-Gd-142



63

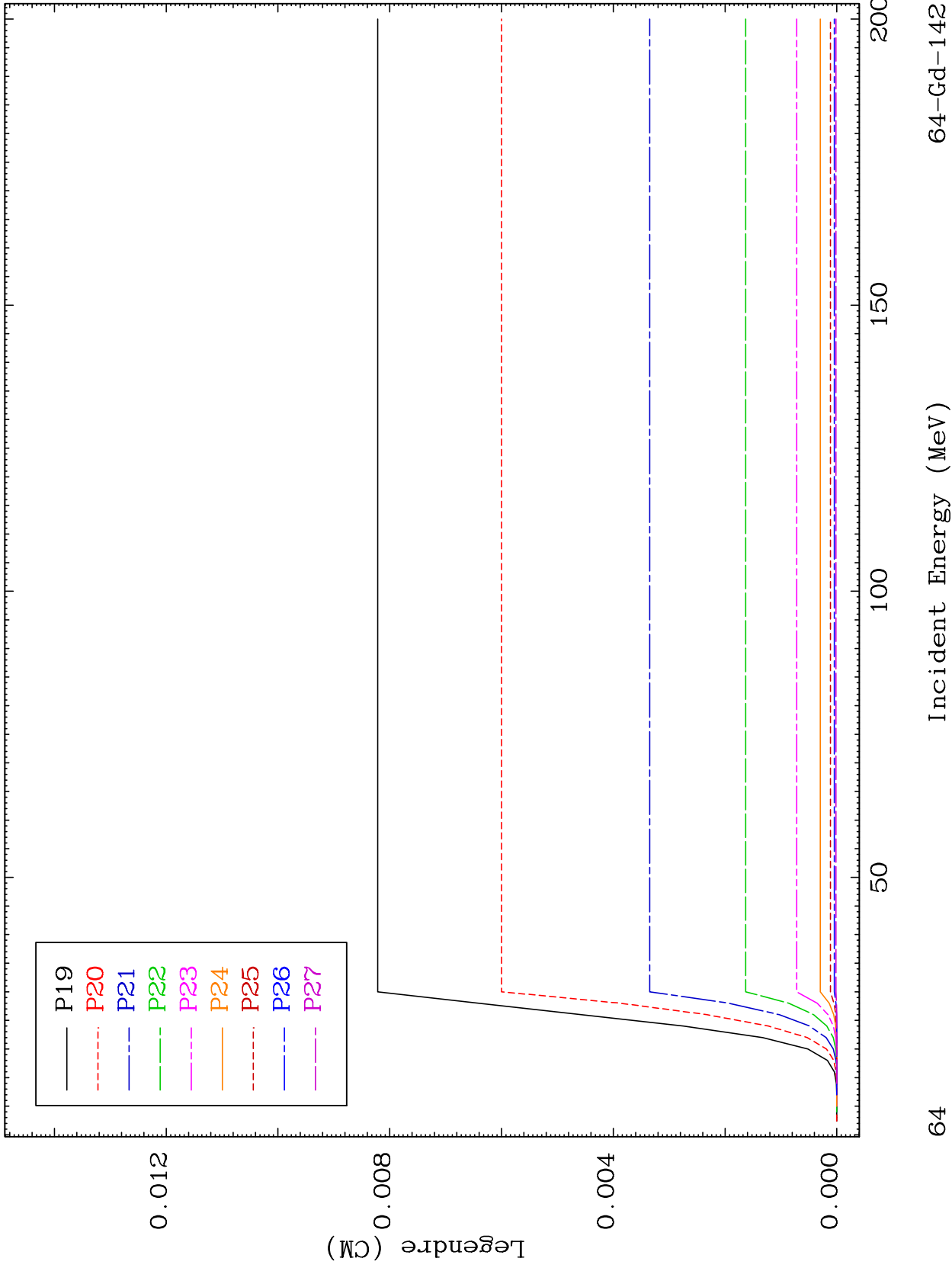
Incident Energy (MeV)

64-Gd-142

MAT 6395

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

64-Gd-142



64

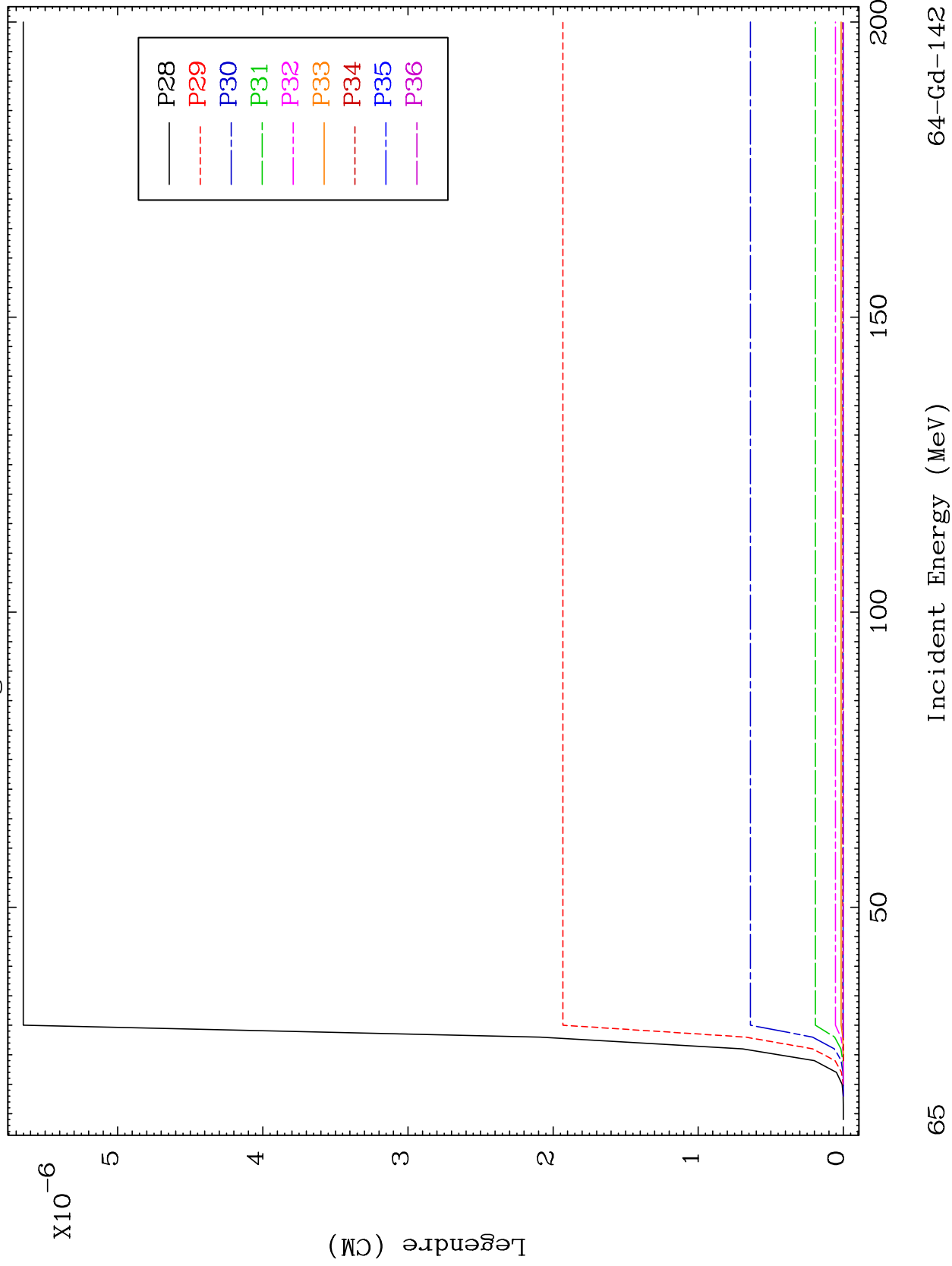
Incident Energy (MeV)

64-Gd-142

MAT 6395

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

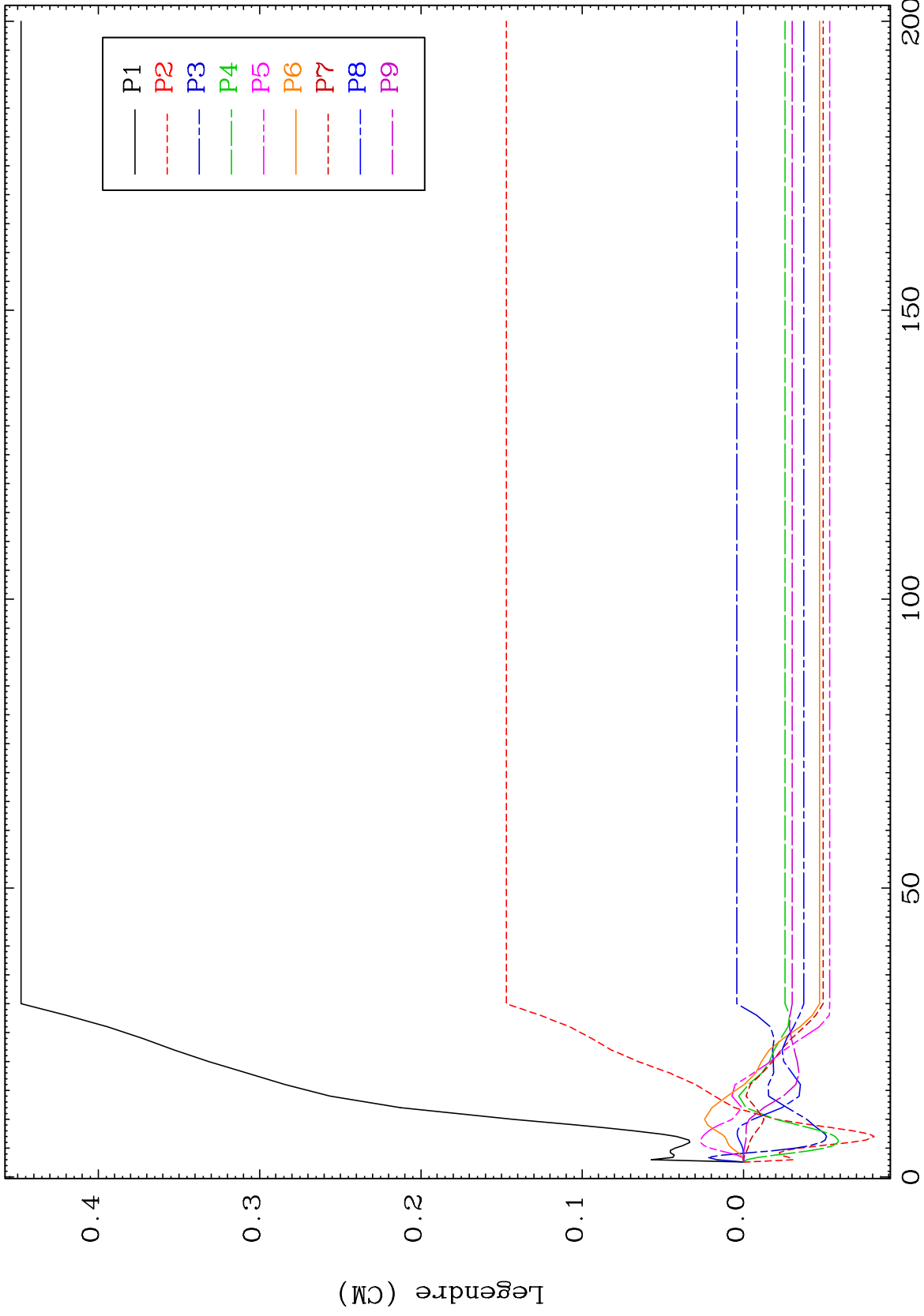
64-Gd-142



MAT 6395

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

64-Gd-142



66

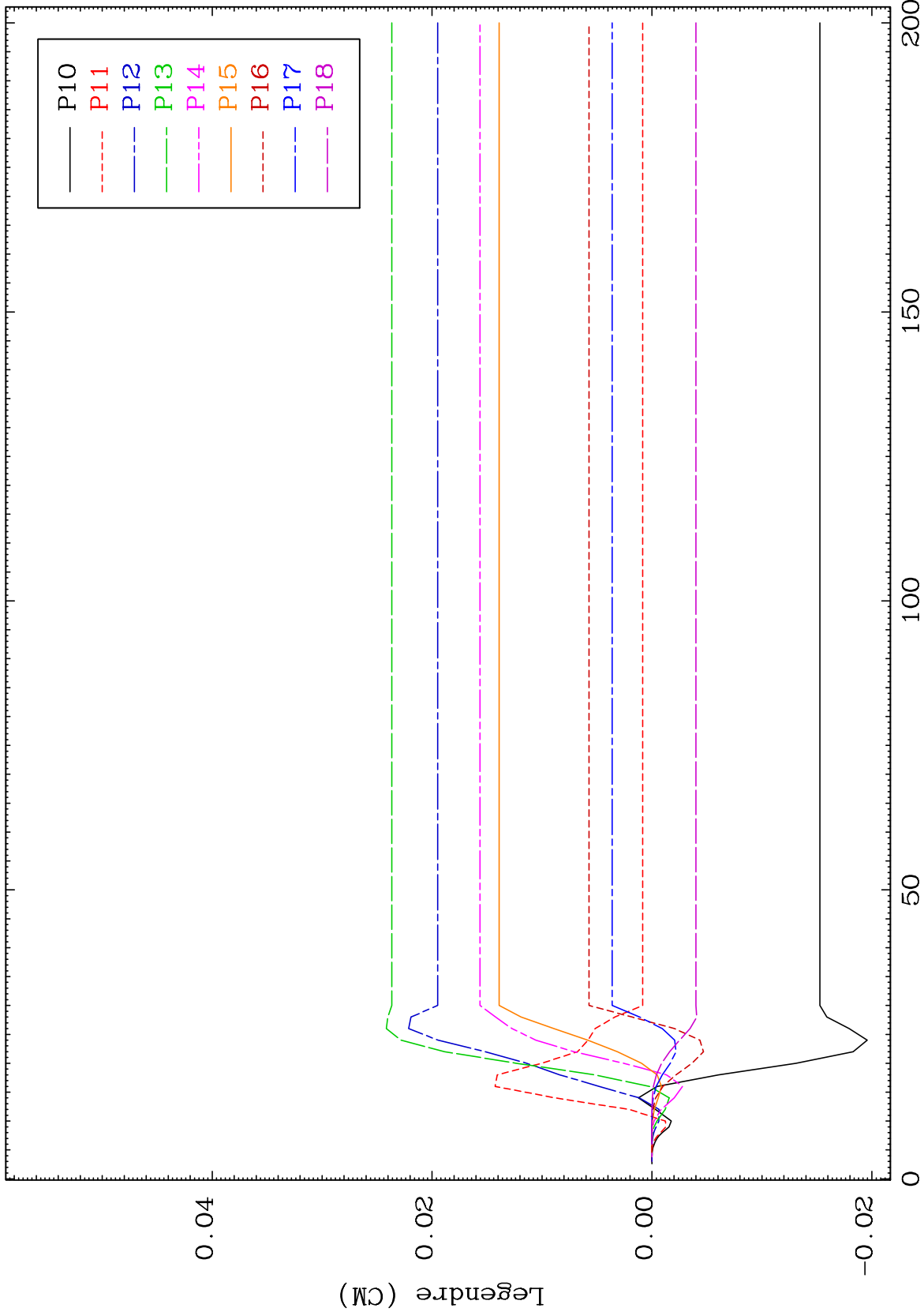
Incident Energy (MeV)

64-Gd-142

MAT 6395

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

64-Gd-142



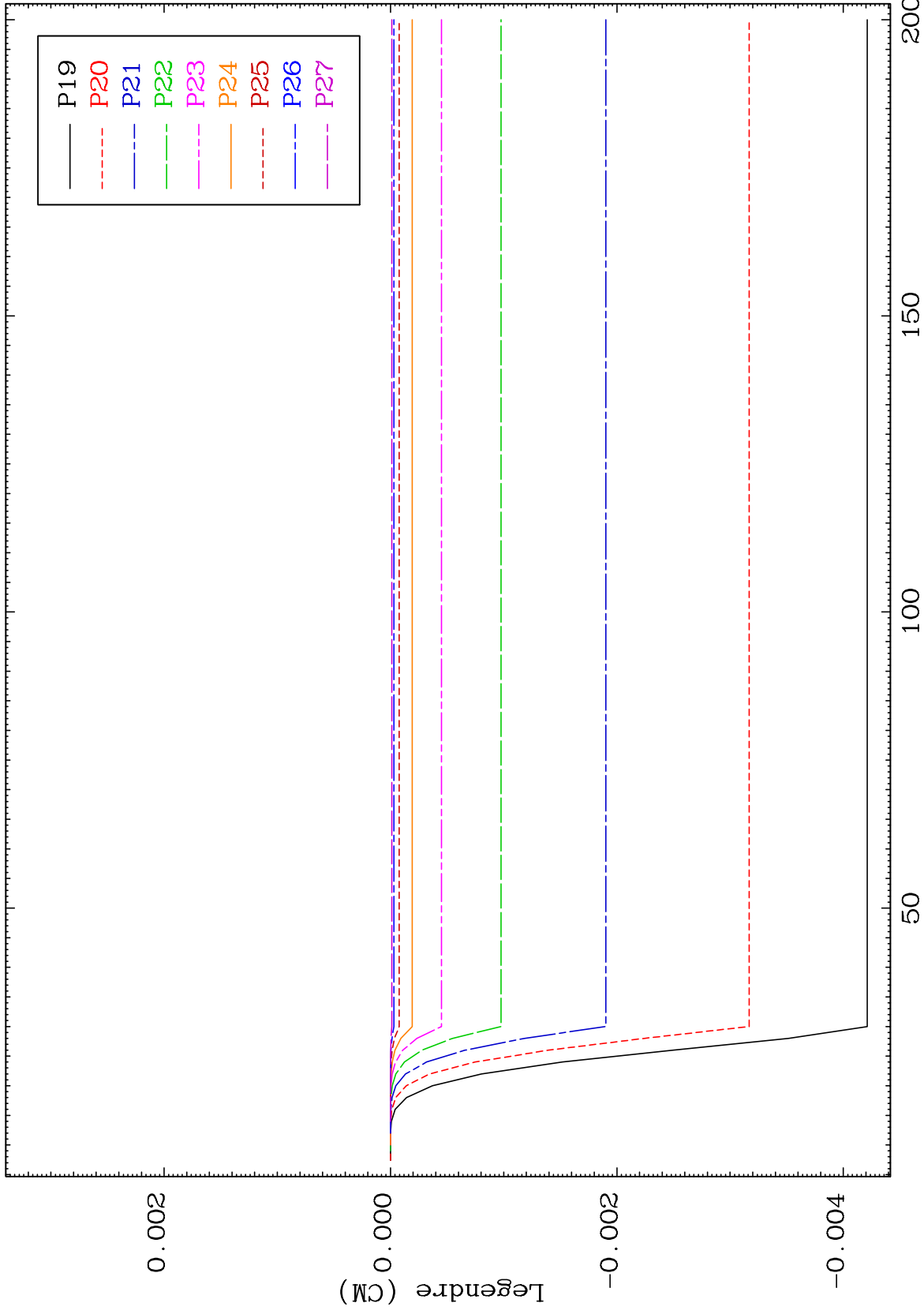
67

64-Gd-142

MAT 6395

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

64-Gd-142



68

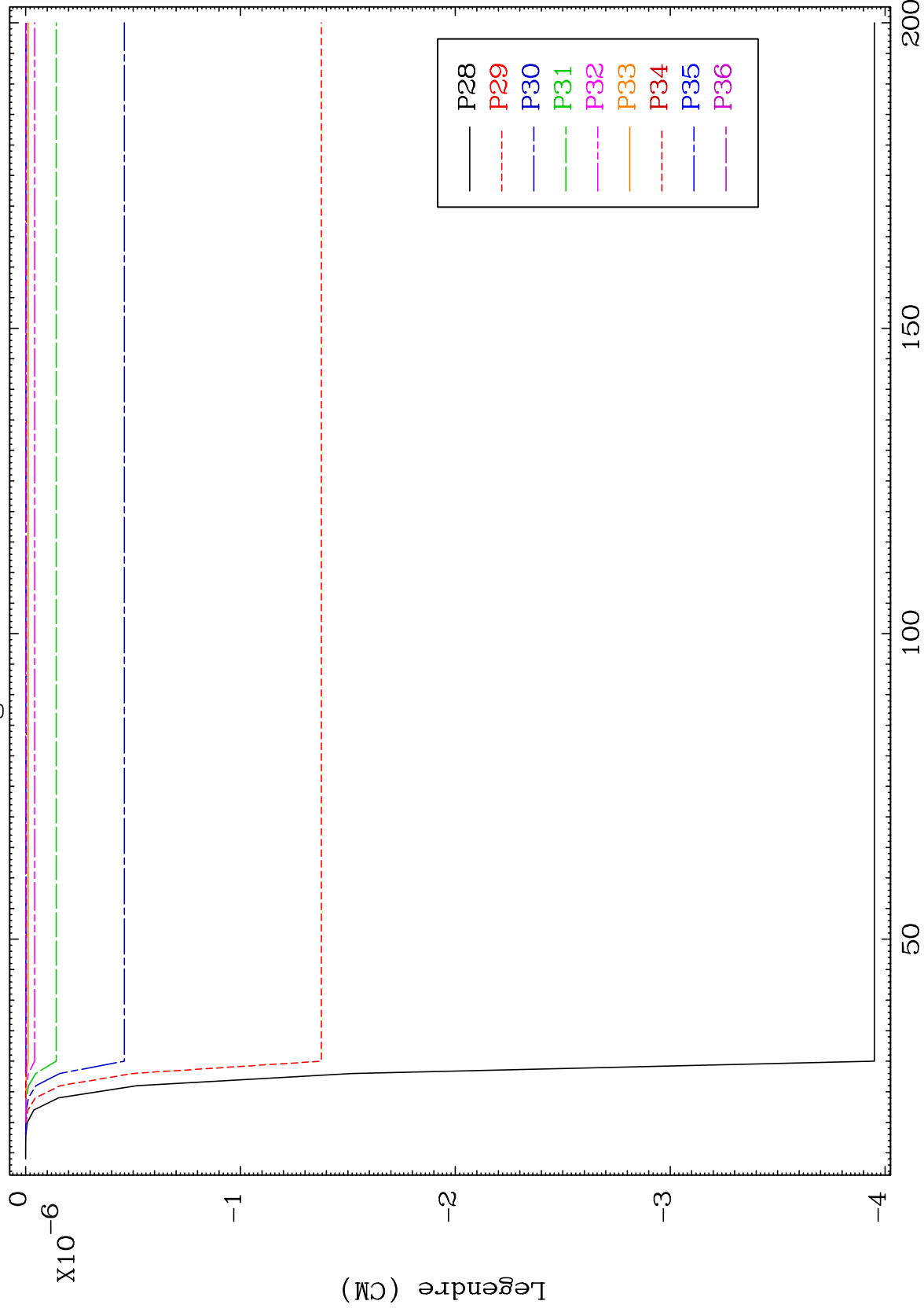
Incident Energy (MeV)

64-Gd-142

MAT 6395

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

64-Gd-142



69

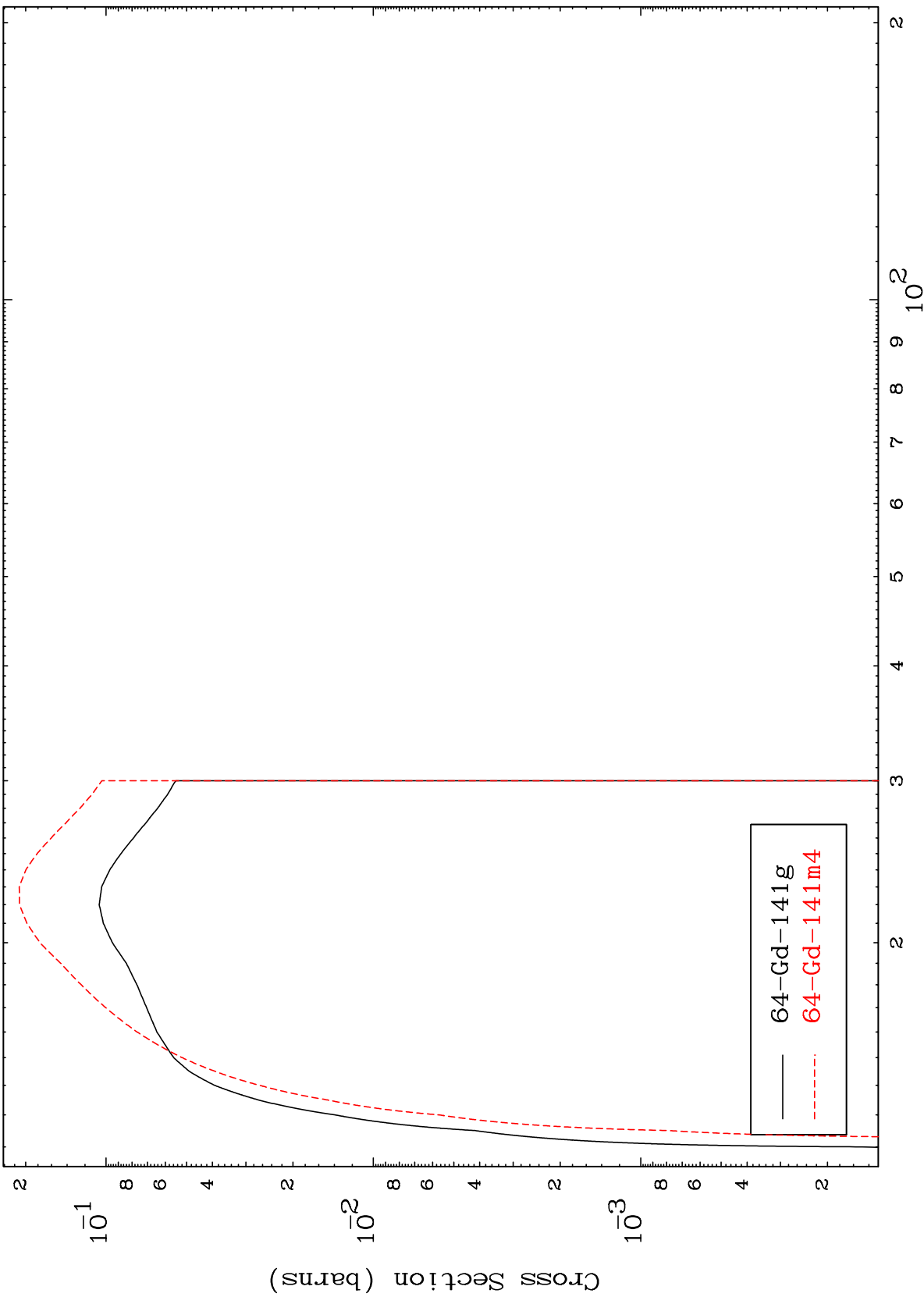
Incident Energy (MeV)

64-Gd-142

MAT 6395

64-Gd-142

(n,2n)
Radionuclide Production Cross Section



70

Incident Energy (MeV)

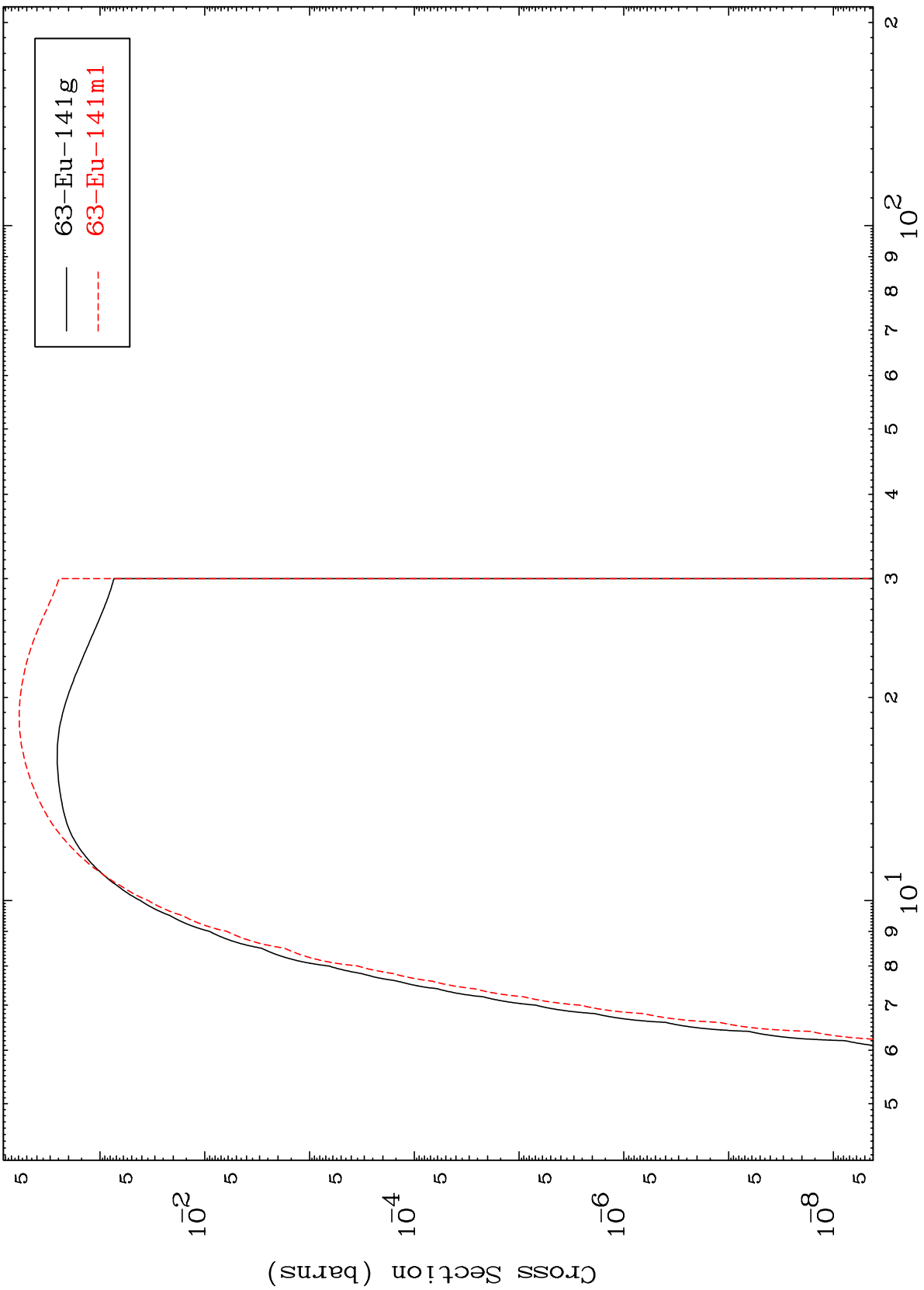
64-Gd-142

MAT 6395

(n,n') p

64-Gd-142

Radionuclide Production Cross Section



71

Incident Energy (MeV)

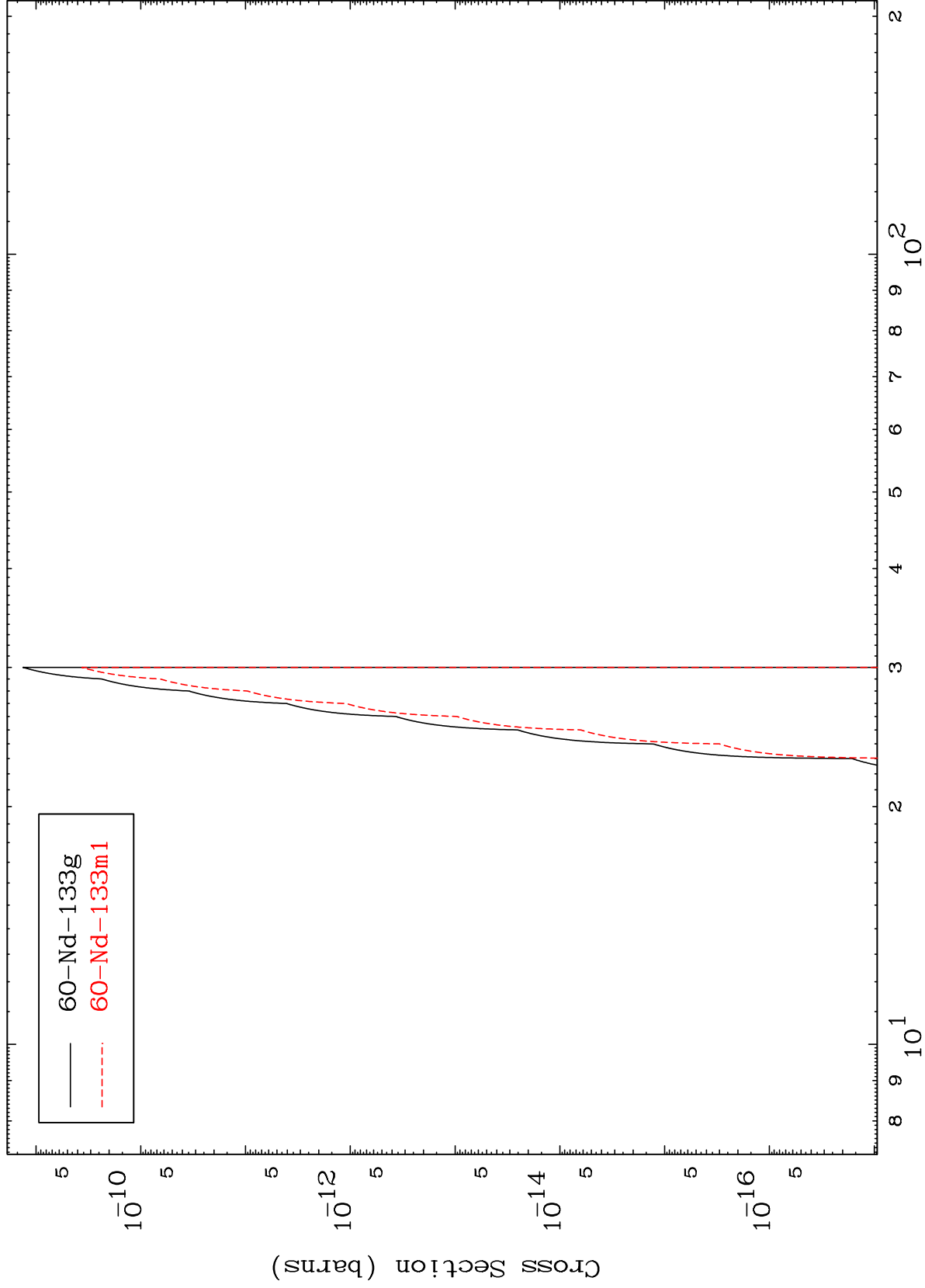
64-Gd-142

MAT 6395

(n,2n) 2 α

64-Gd-142

Radionuclide Production Cross Section



72

Incident Energy (MeV)

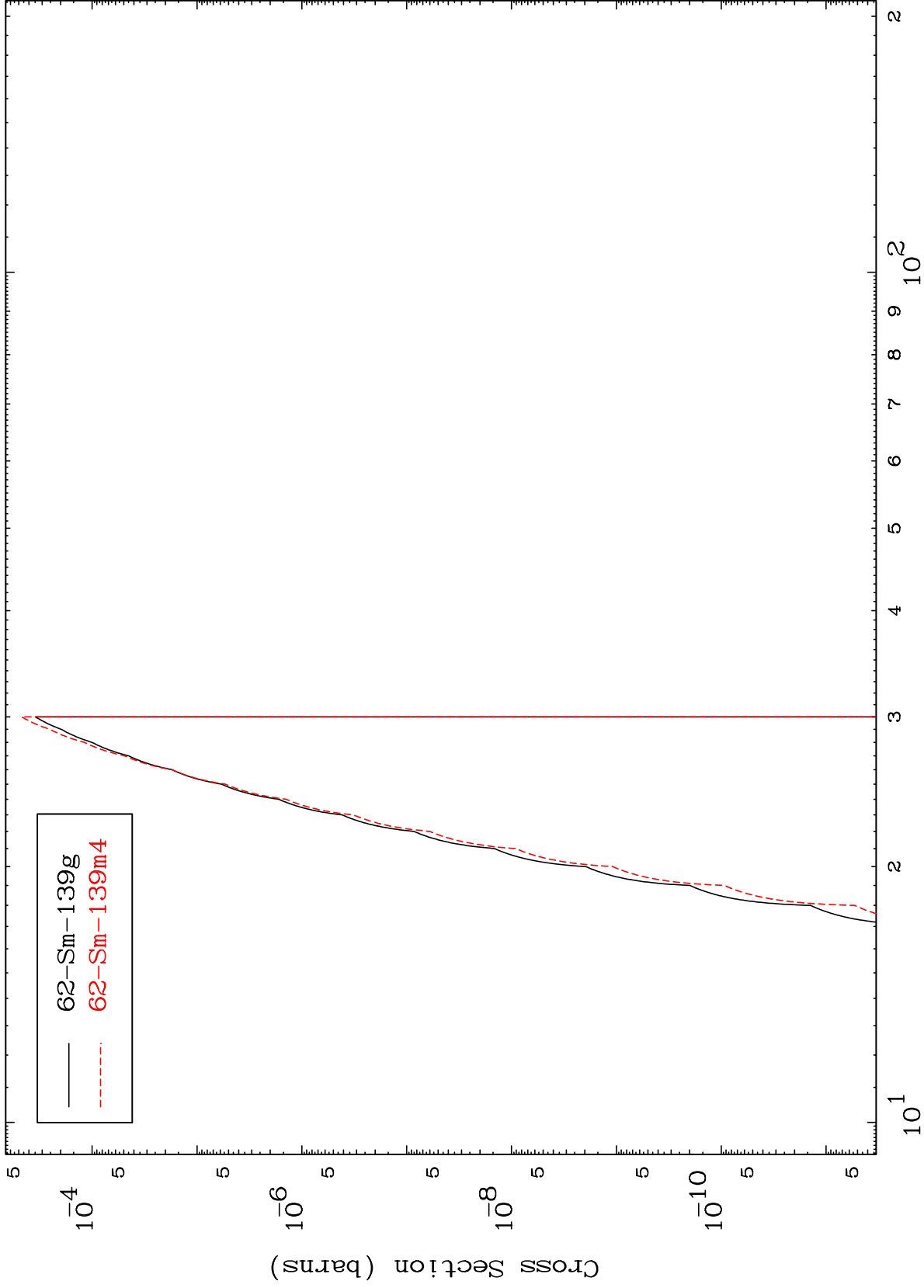
64-Gd-142

MAT 6395

(n,n') He-3

64-Gd-142

Radionuclide Production Cross Section



73

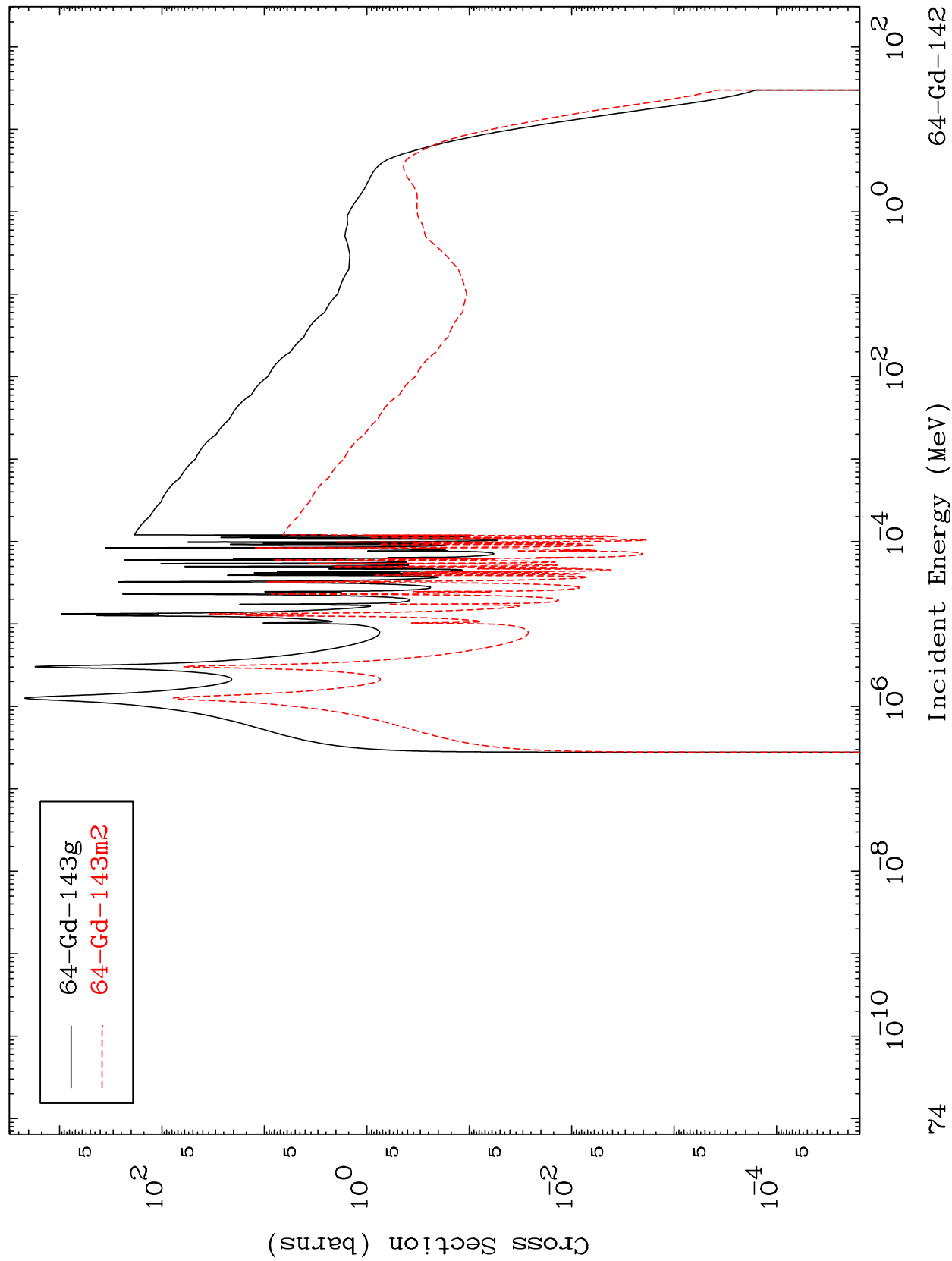
Incident Energy (MeV)

64-Gd-142

MAT 6395

64-Gd-142

(n, γ)
Radionuclide Production Cross Section



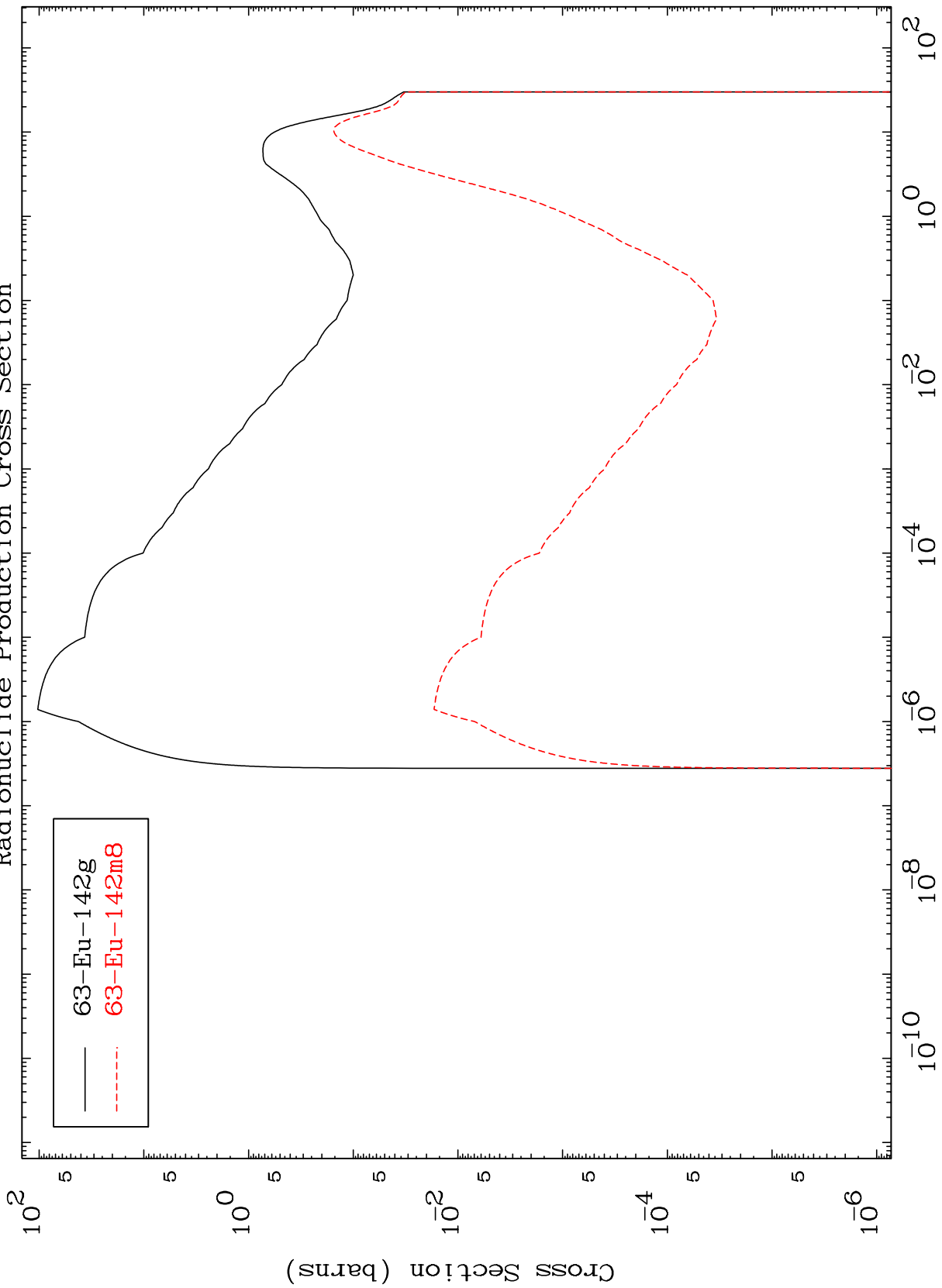
74

64-Gd-142

MAT 6395

64-Gd-142

(n,p)
Radionuclide Production Cross Section



63-Eu-142g
63-Eu-142m8

64-Gd-142

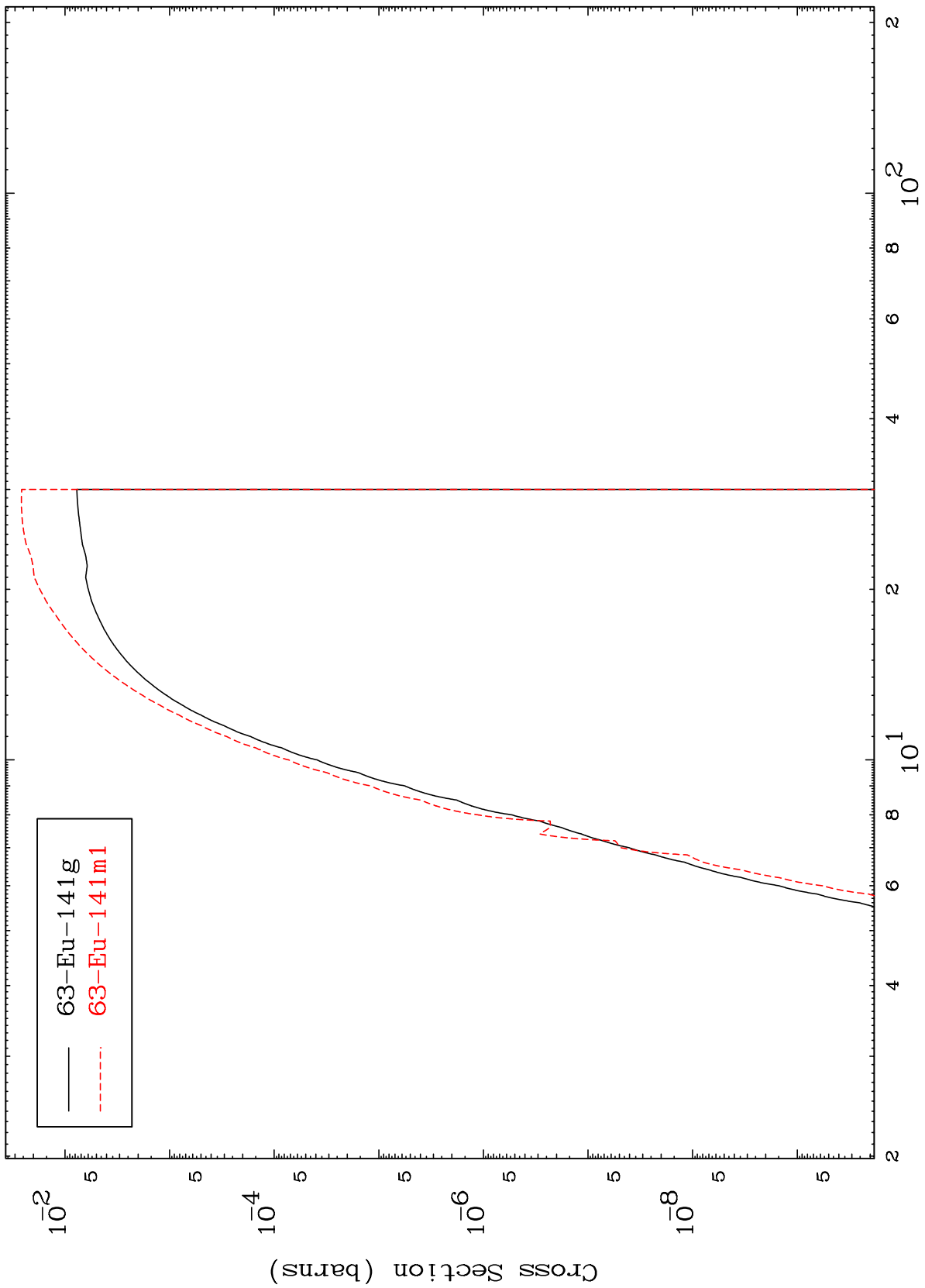
Incident Energy (MeV)

75

MAT 6395

64-Gd-142

(n,d)
Radionuclide Production Cross Section



76

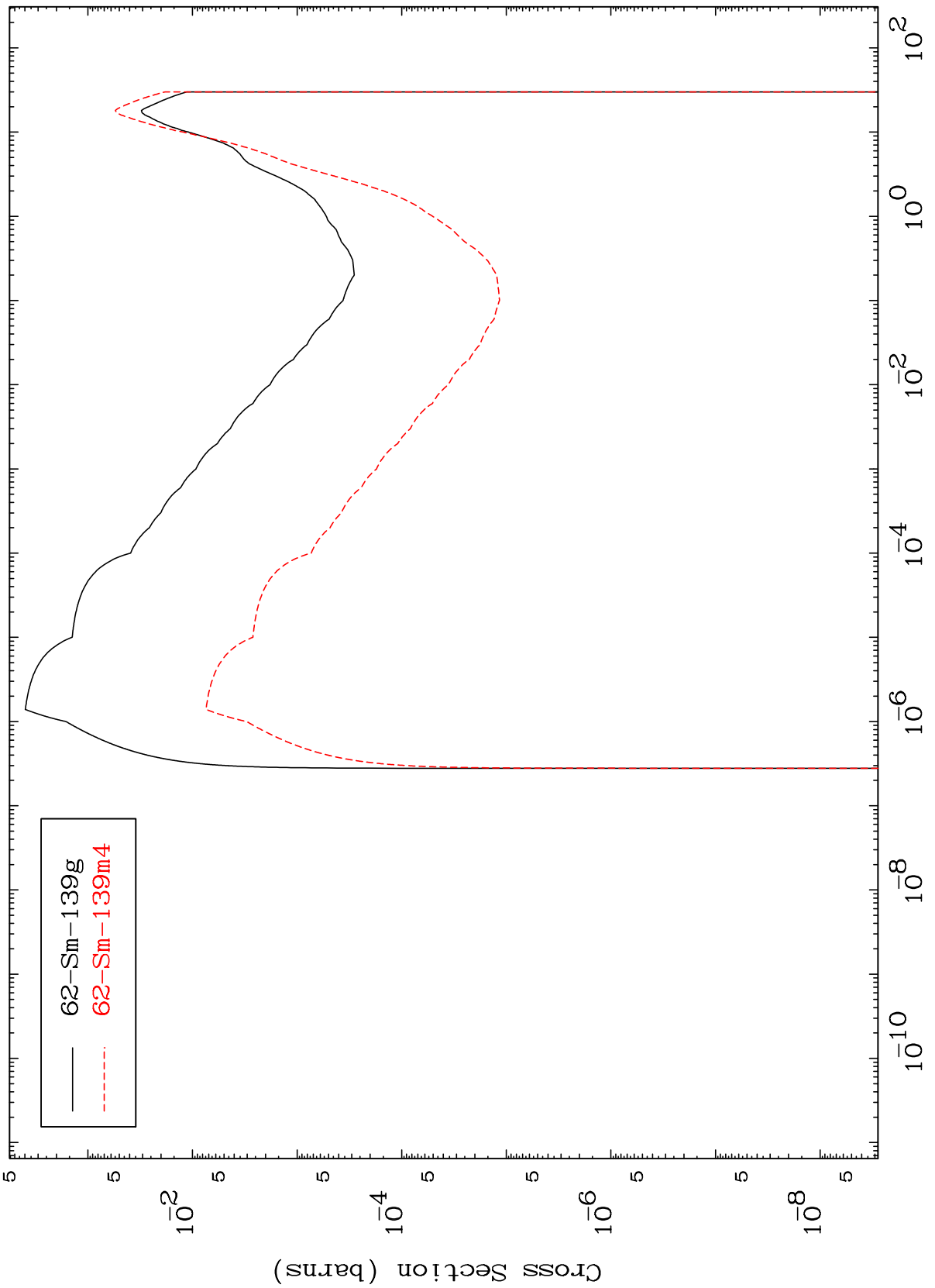
Incident Energy (MeV)

64-Gd-142

MAT 6395

64-Gd-142

Radionuclide Production Cross Section
(n, α)



64-Gd-142

Incident Energy (MeV)

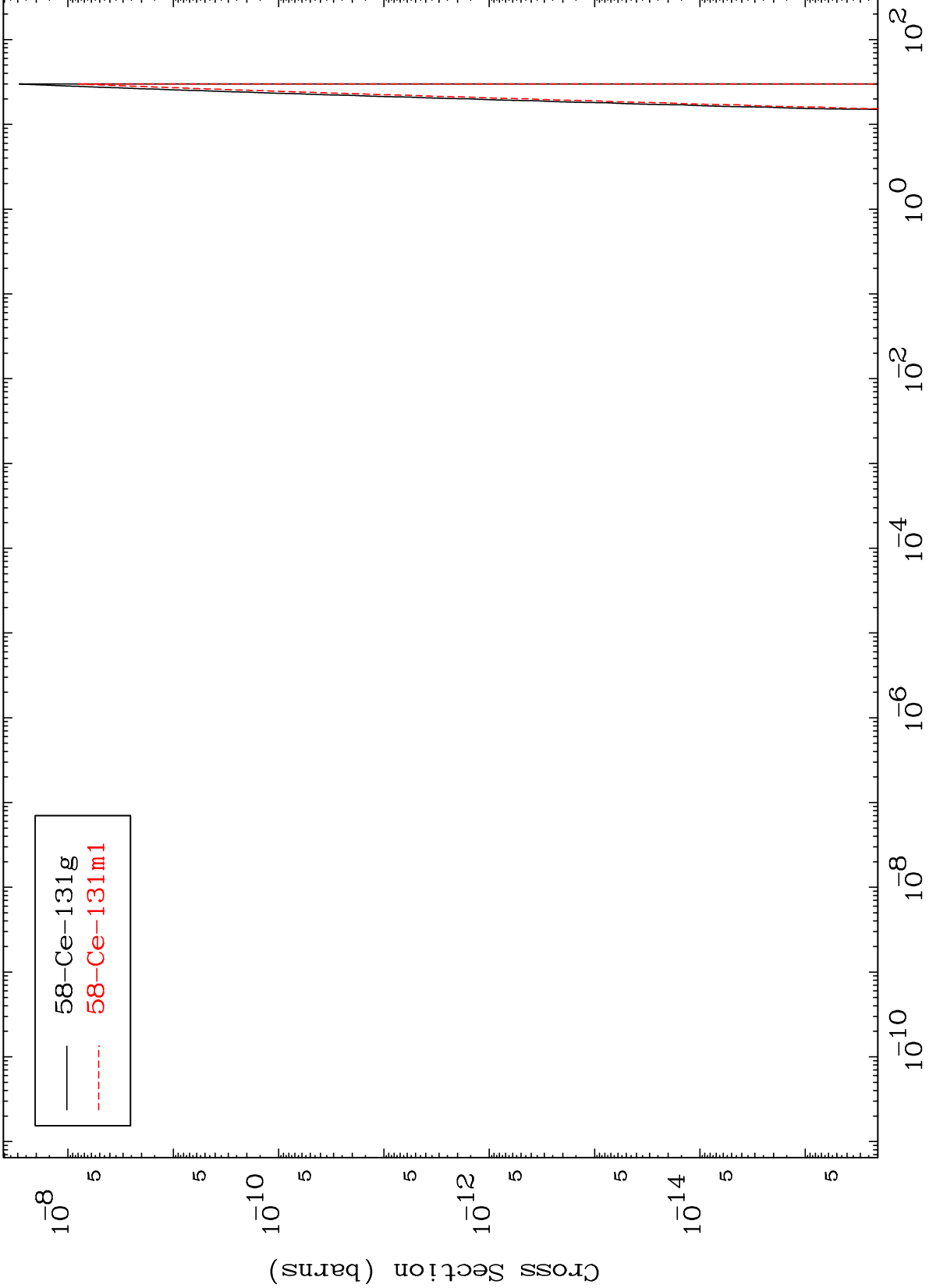
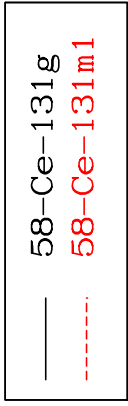
77

MAT 6395

(n, 3α)

64-Gd-142

Radionuclide Production Cross Section



78

Incident Energy (MeV)

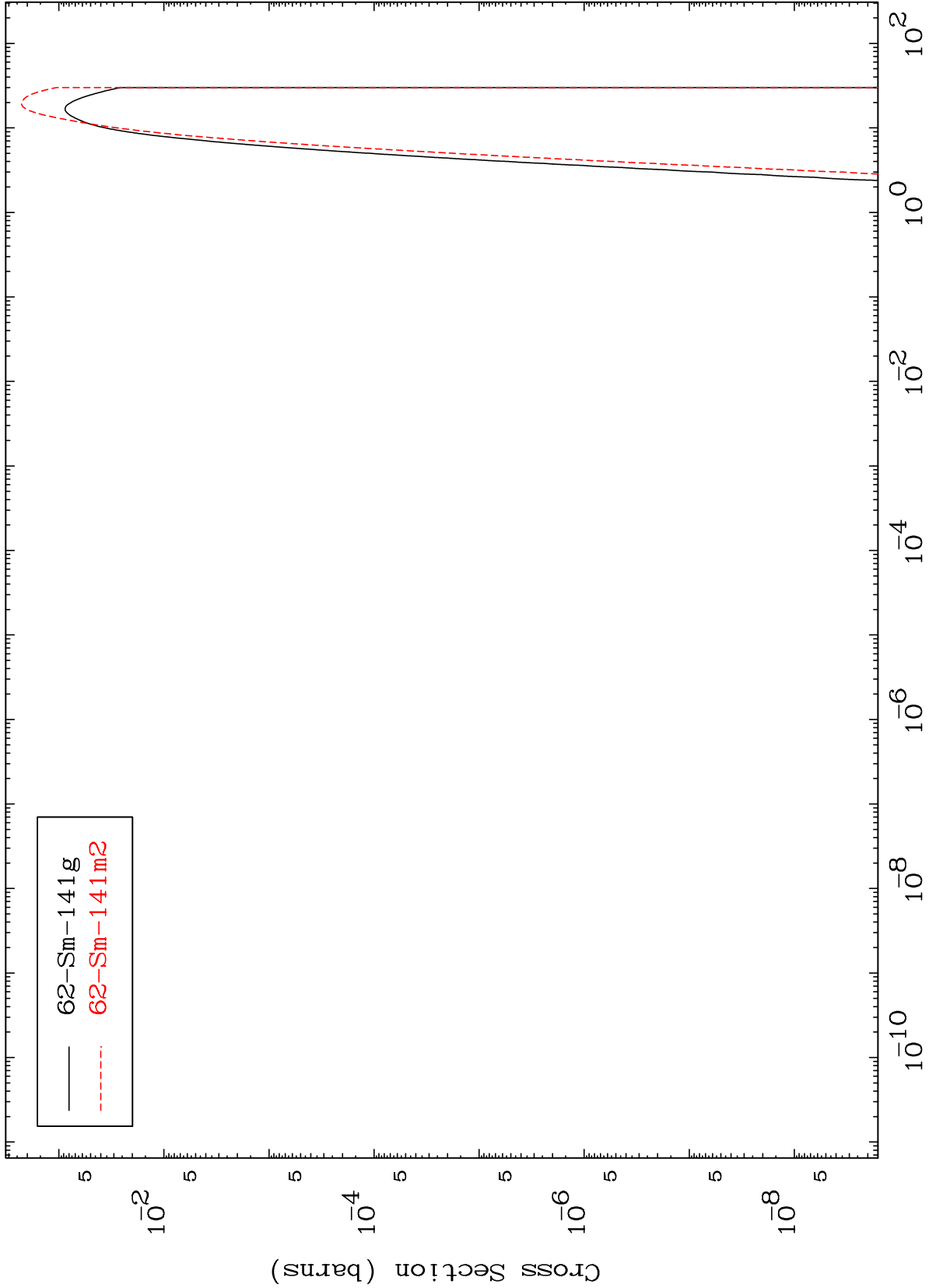
64-Gd-142

MAT 6395

(n,2p)

64-Gd-142

Radionuclide Production Cross Section



62-Sm-141g
62-Sm-141m2

79

Incident Energy (MeV)

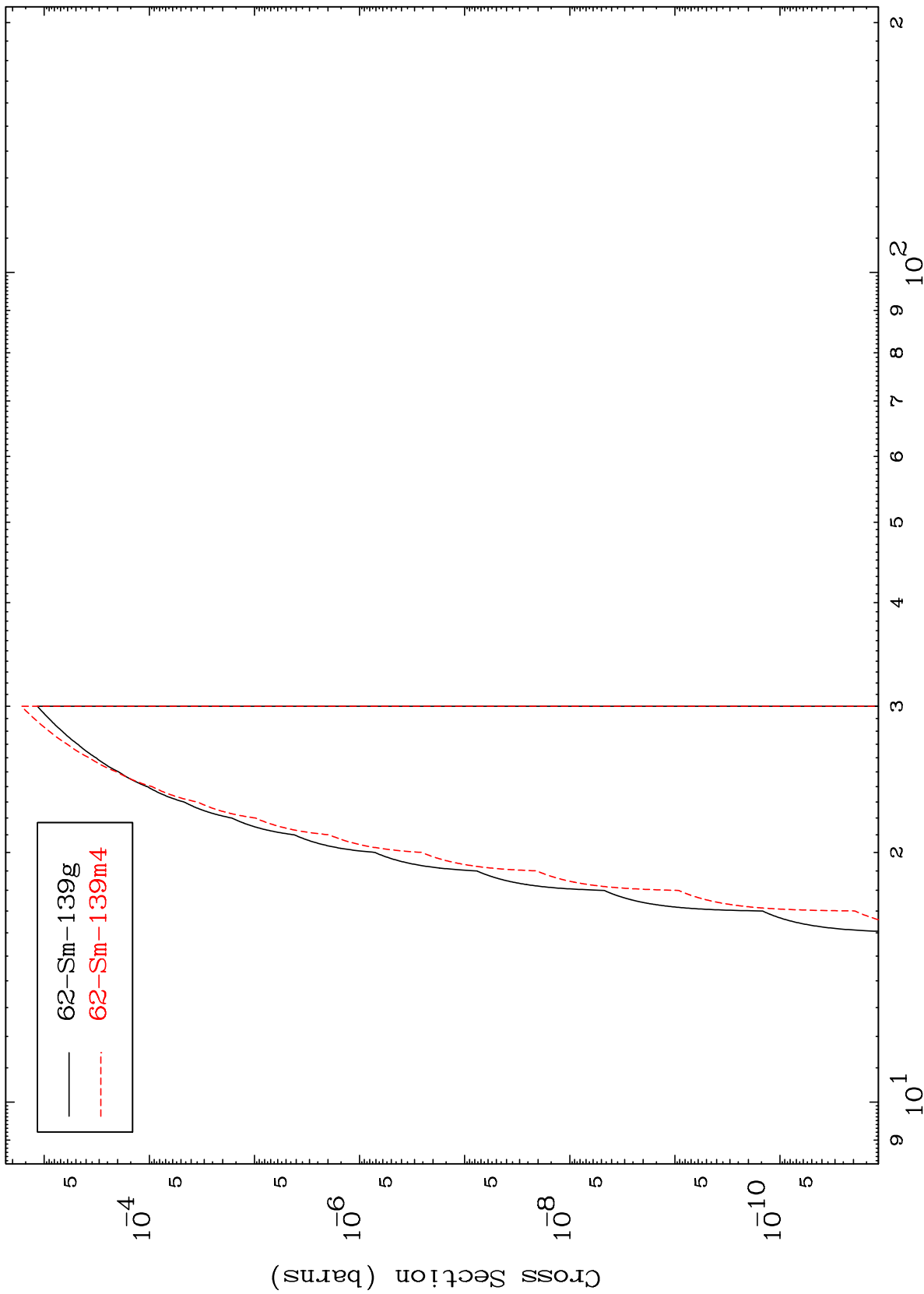
64-Gd-142

MAT 6395

(n,p) t

64-Gd-142

Radionuclide Production Cross Section



80

Incident Energy (MeV)

64-Gd-142