

Program EVALPLOT  
(Version 2017-1)

by

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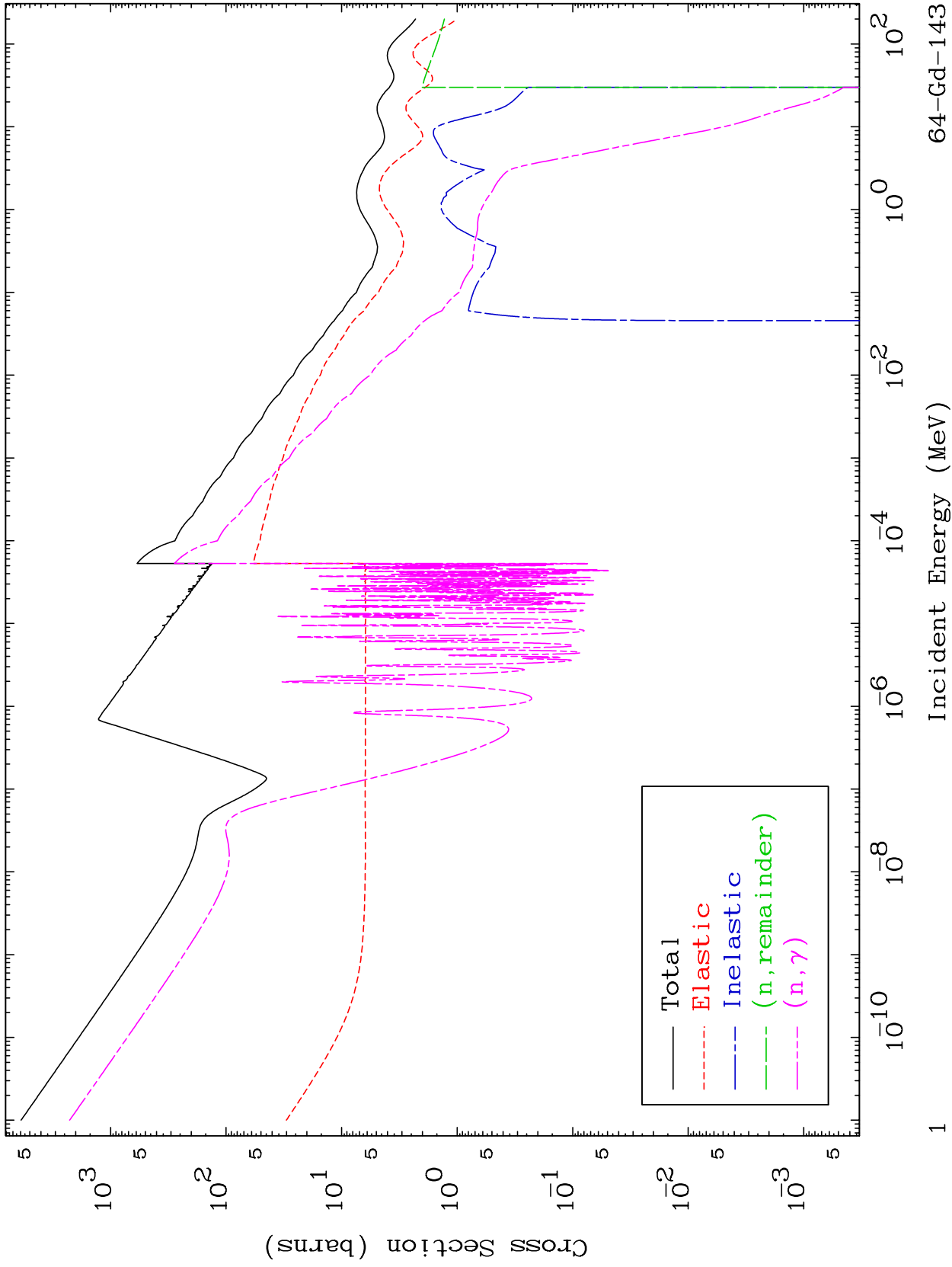
Press Mouse Button to Start

MAT 6398

Major

293 Kelvin Cross Sections

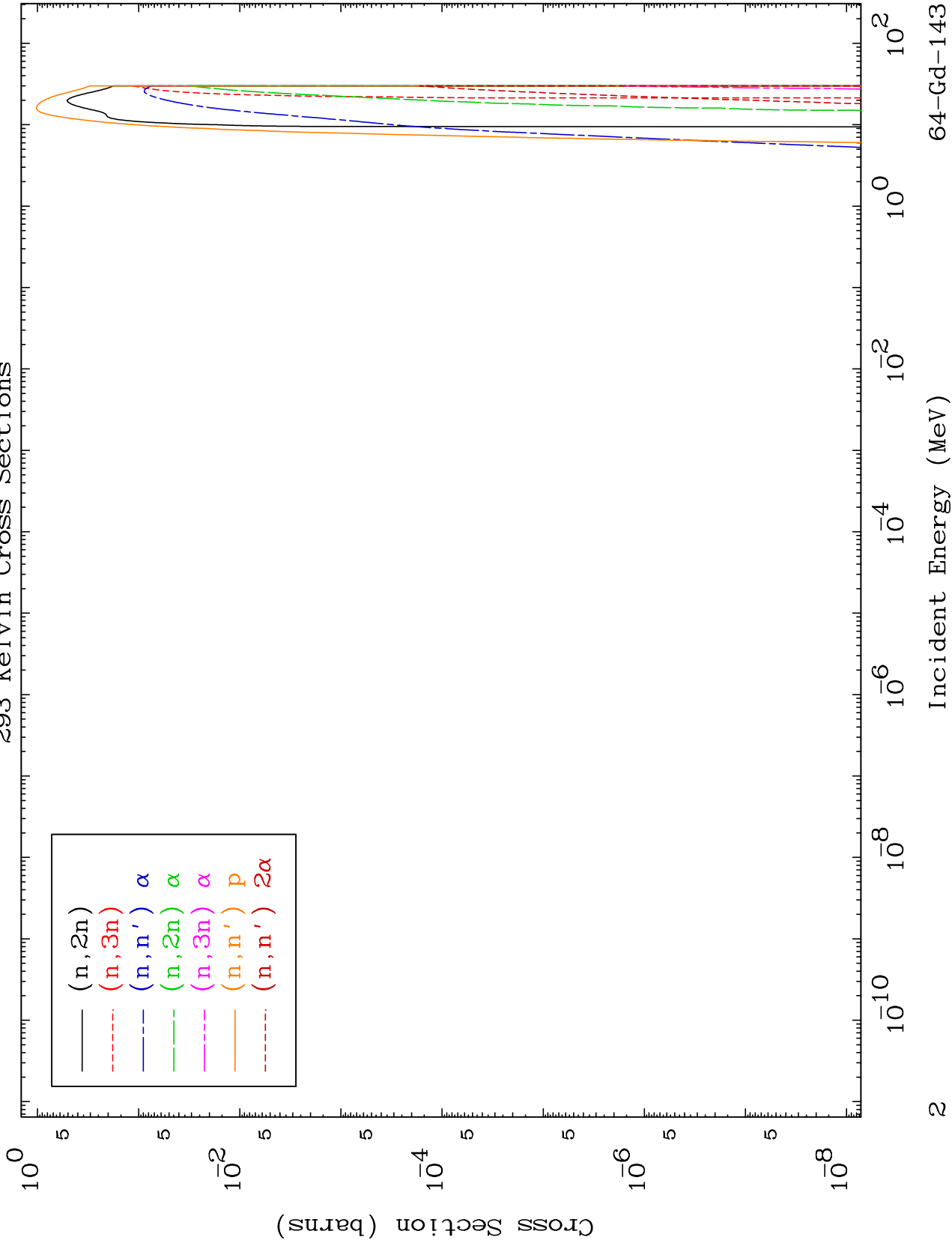
64-Gd-143

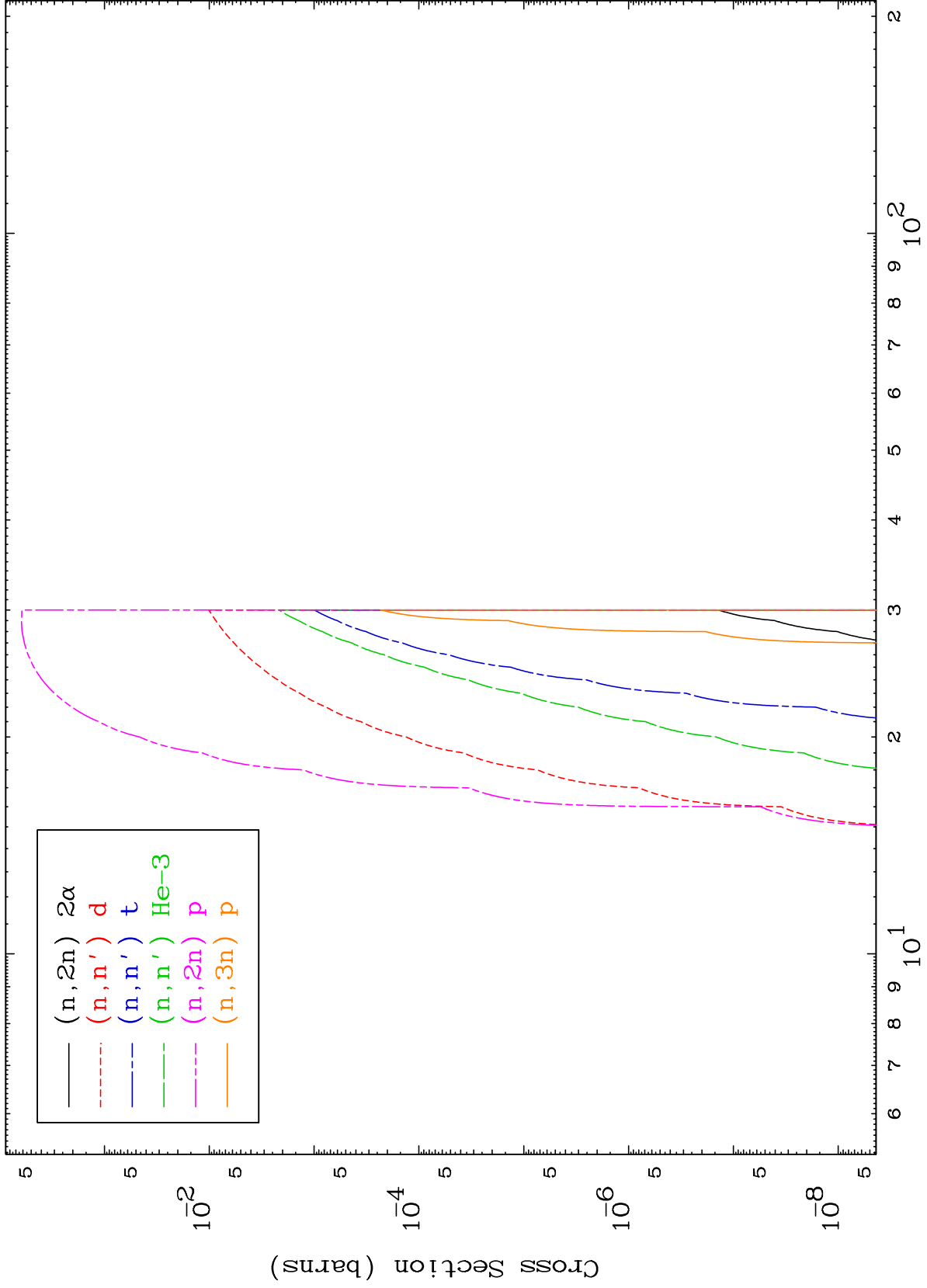


MAT 6398

Neutron Production  
293 Kelvin Cross Sections

64-Gd-143

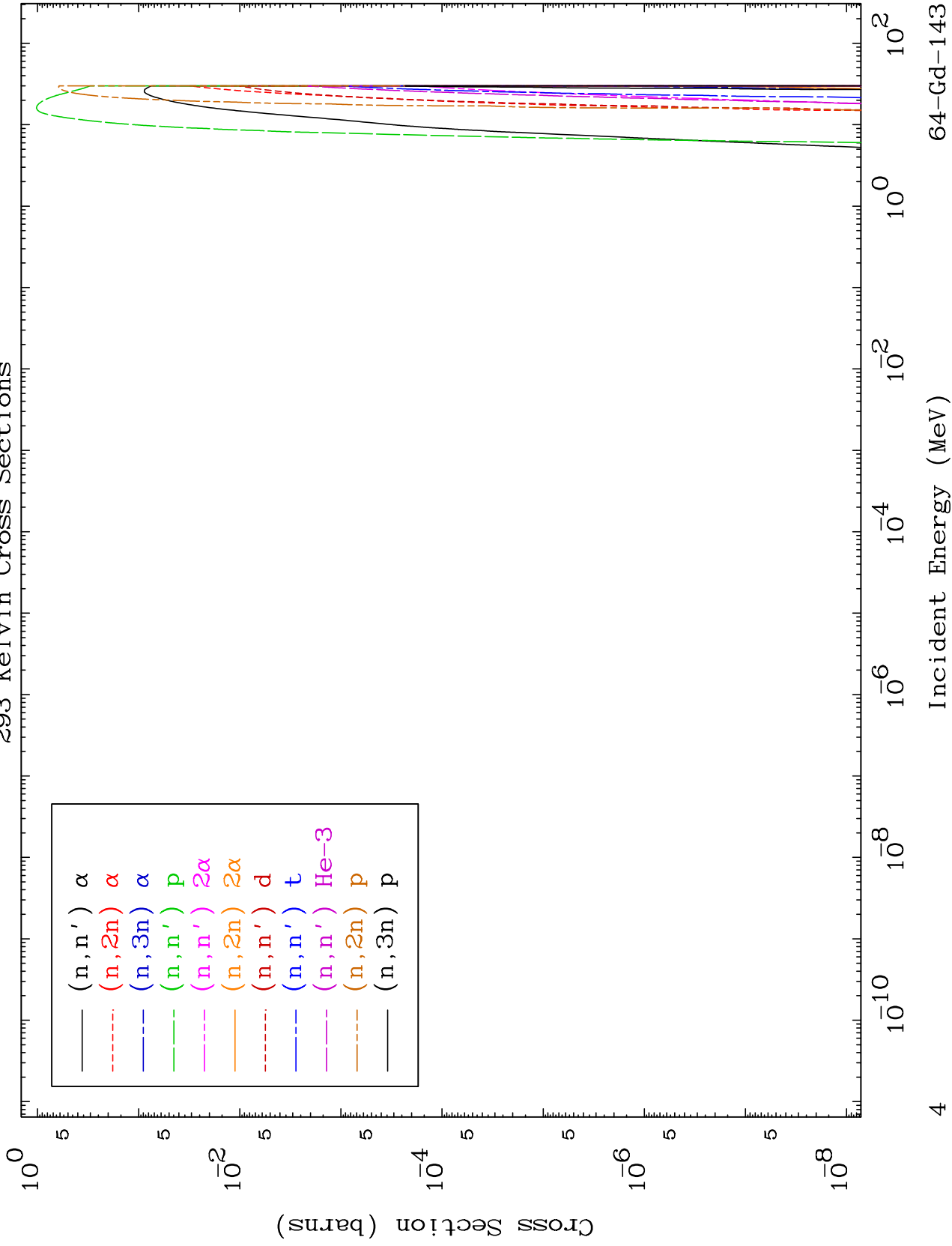




MAT 6398

Charged Particle  
293 Kelvin Cross Sections

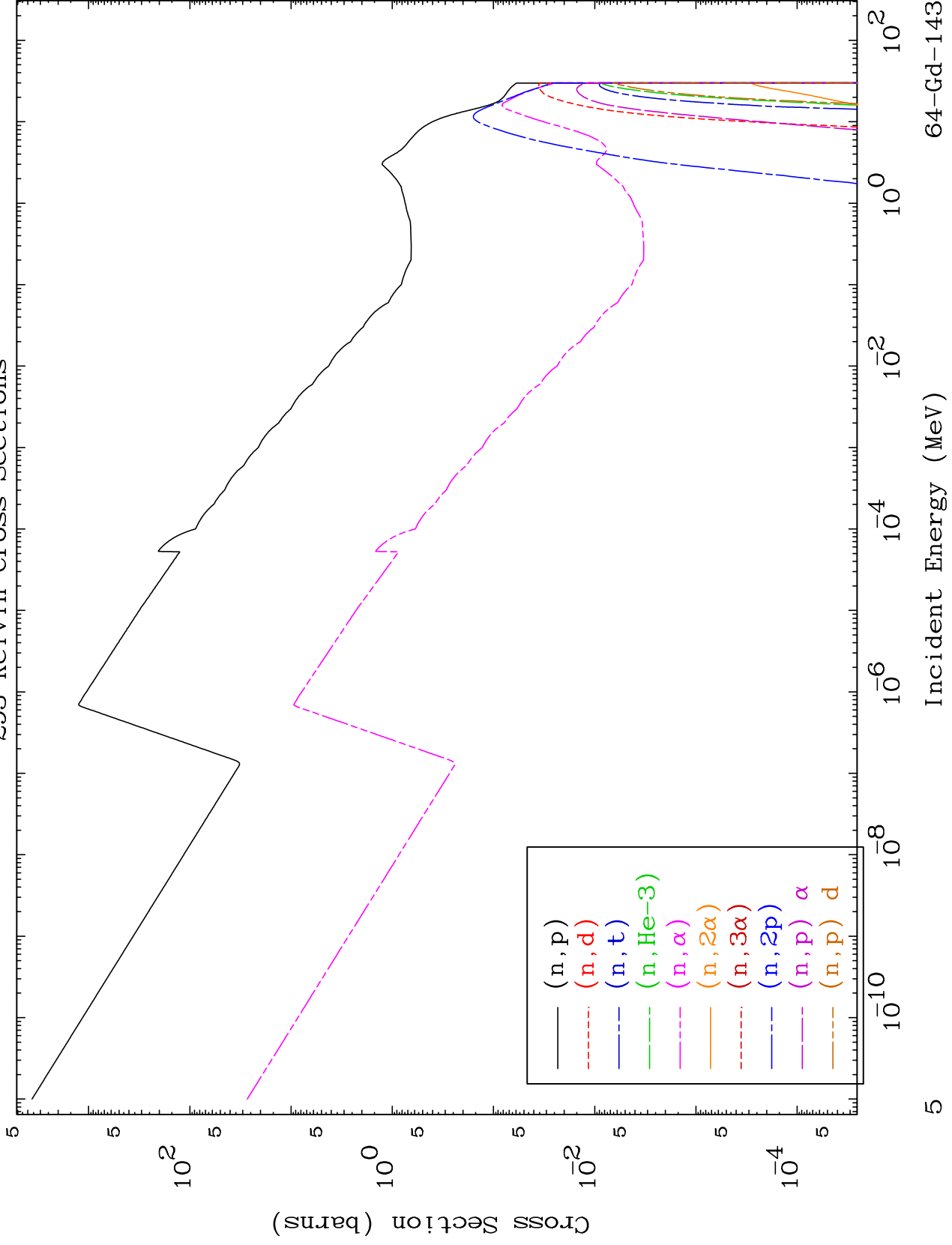
64-Gd-143



MAT 6398

Charged Particle  
293 Kelvin Cross Sections

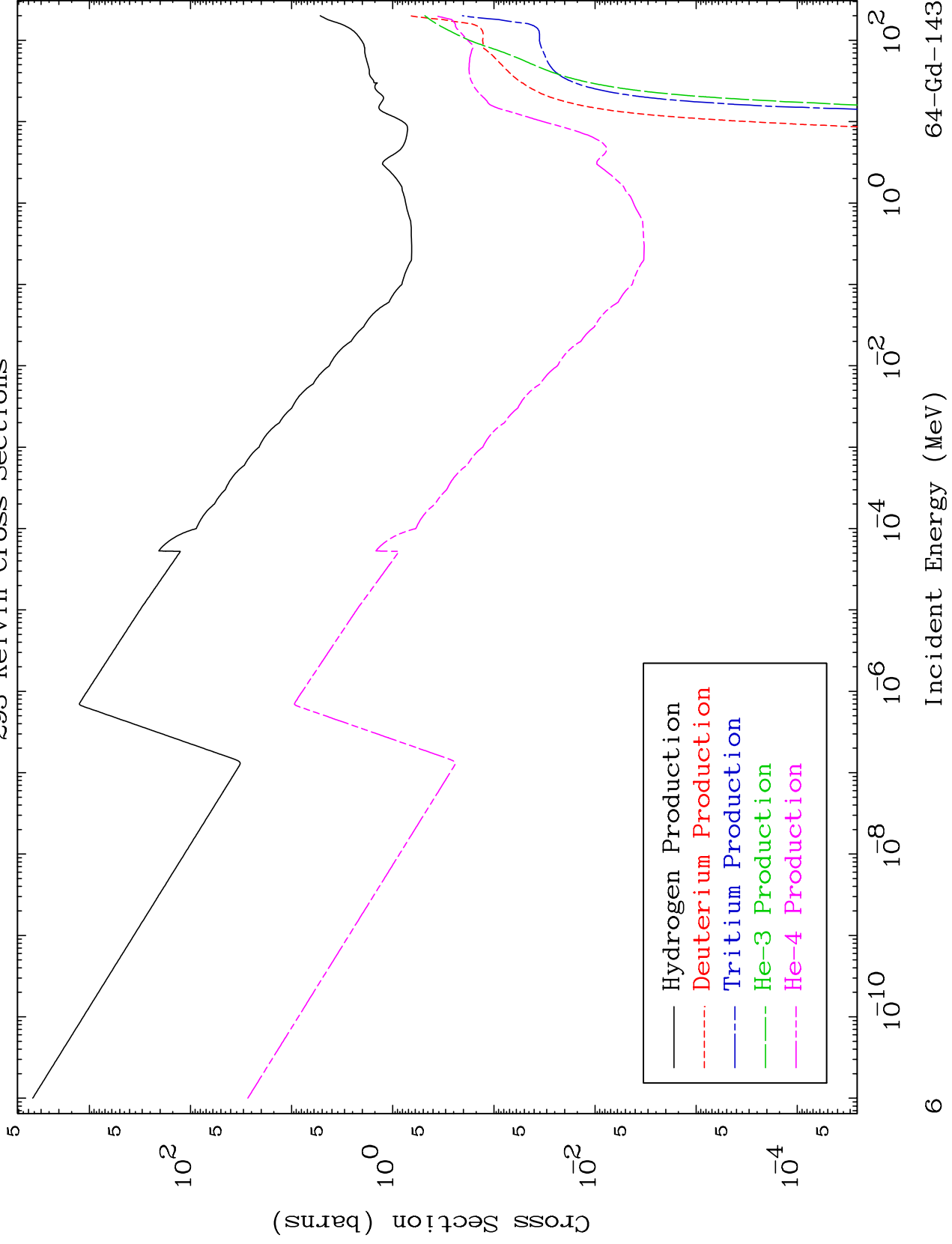
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MAT 6398

Particle Production  
293 Kelvin Cross Sections

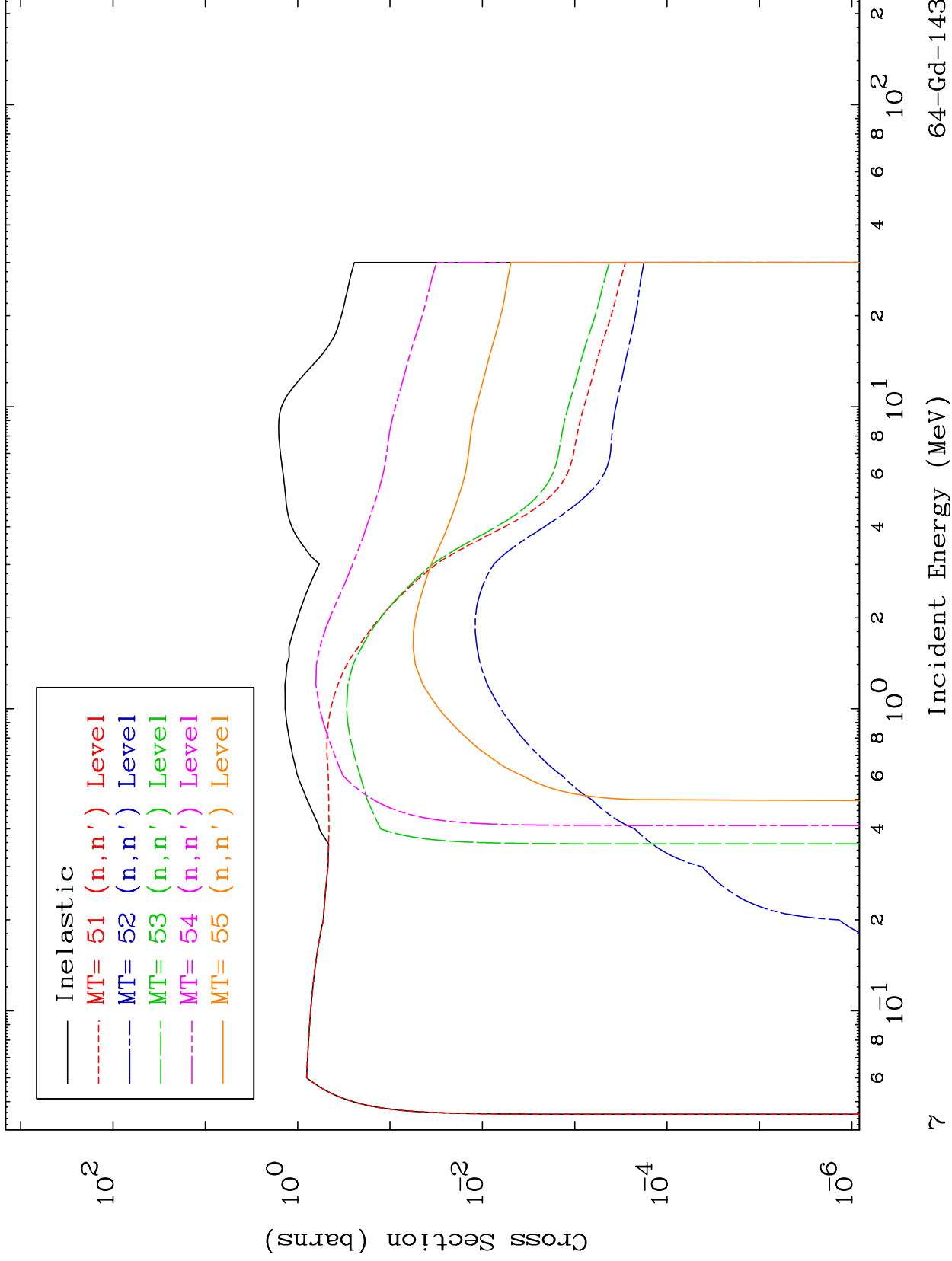
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MAT 6398

293 Kelvin Cross Sections  
(n,n') Level

64-Gd-143



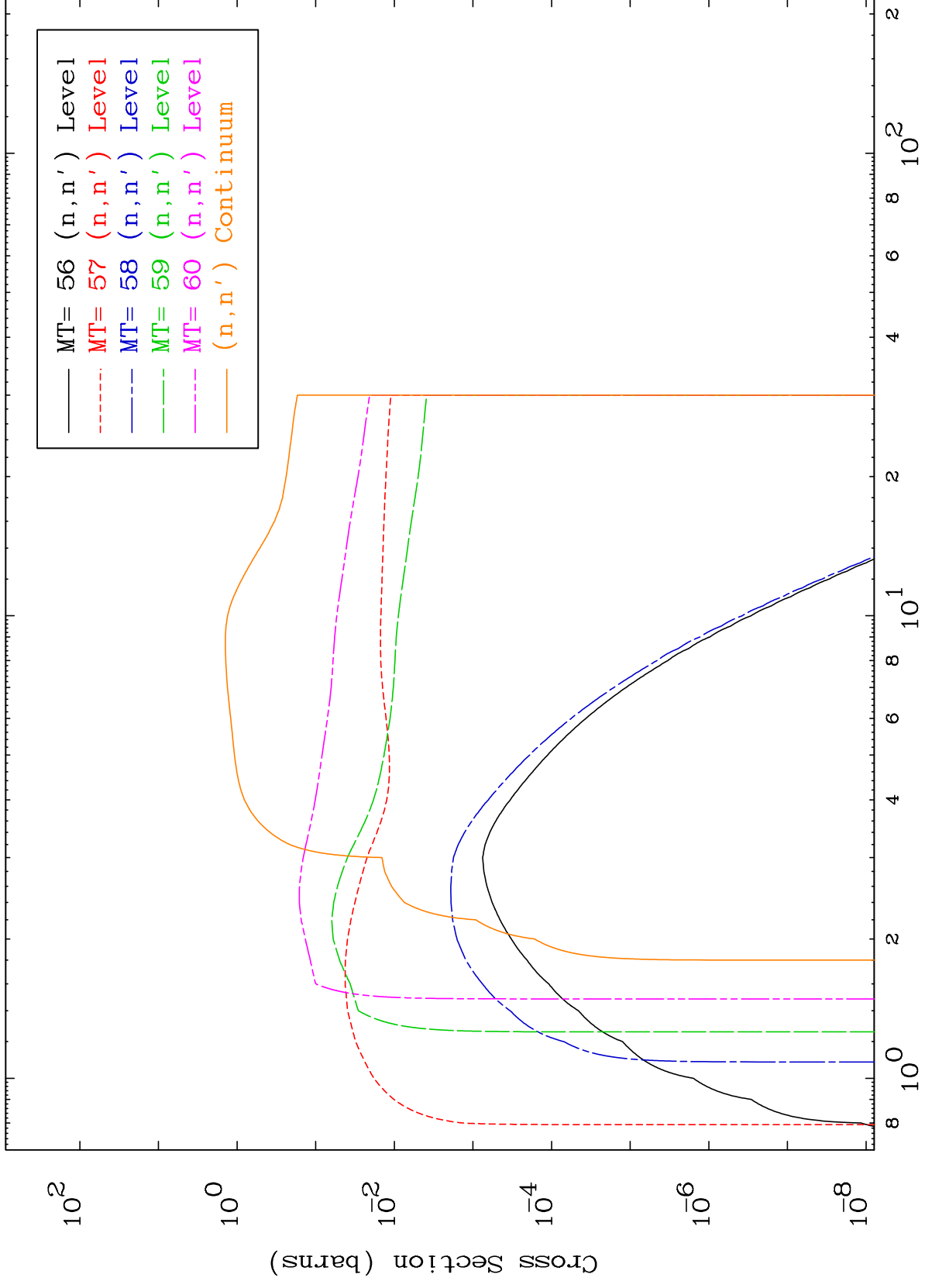


MAT 6398

(n,n') Level

64-Gd-143

293 Kelvin Cross Sections



8

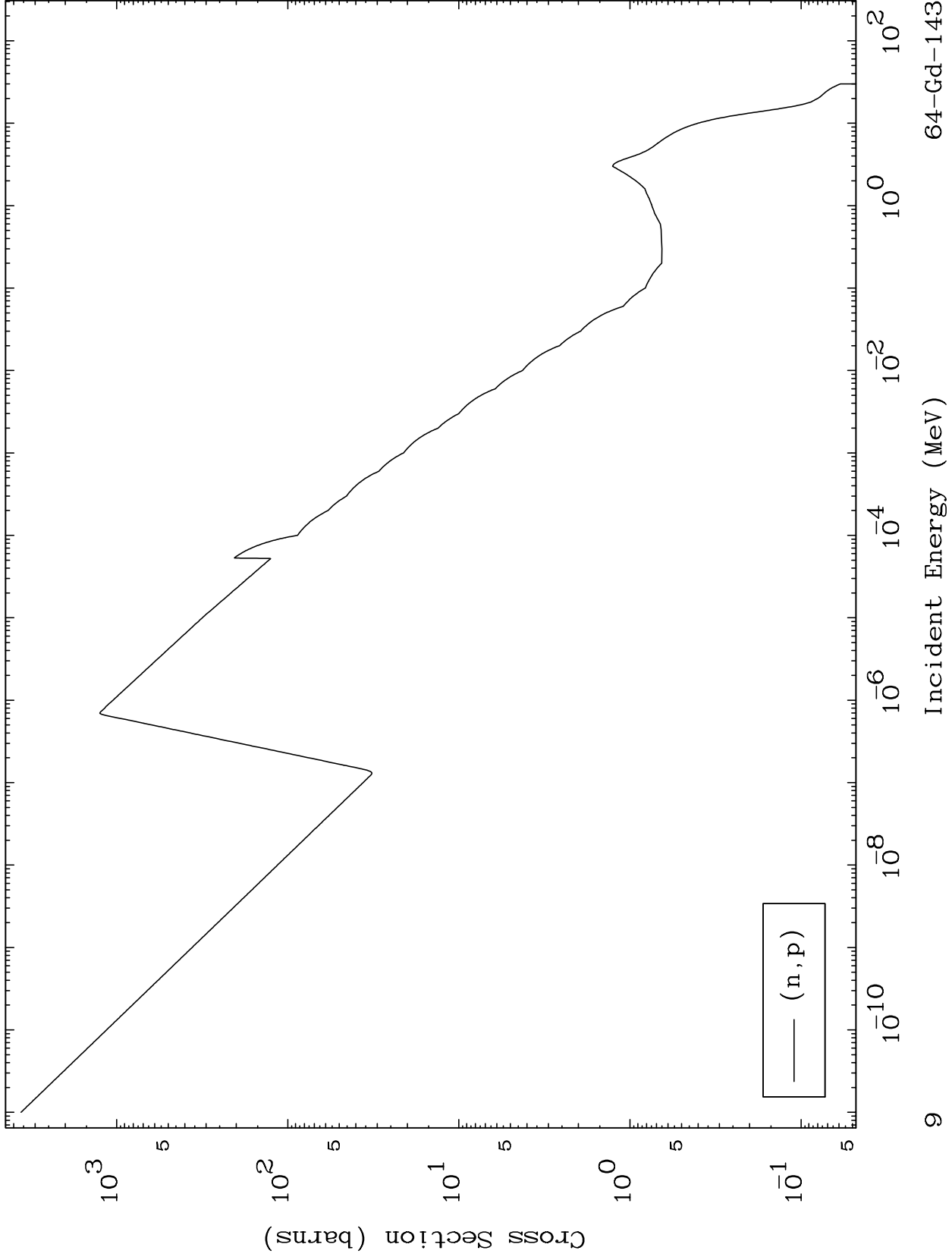
Incident Energy (MeV)

64-Gd-143

MAT 6398

(n,p) Levels  
293 Kelvin Cross Sections

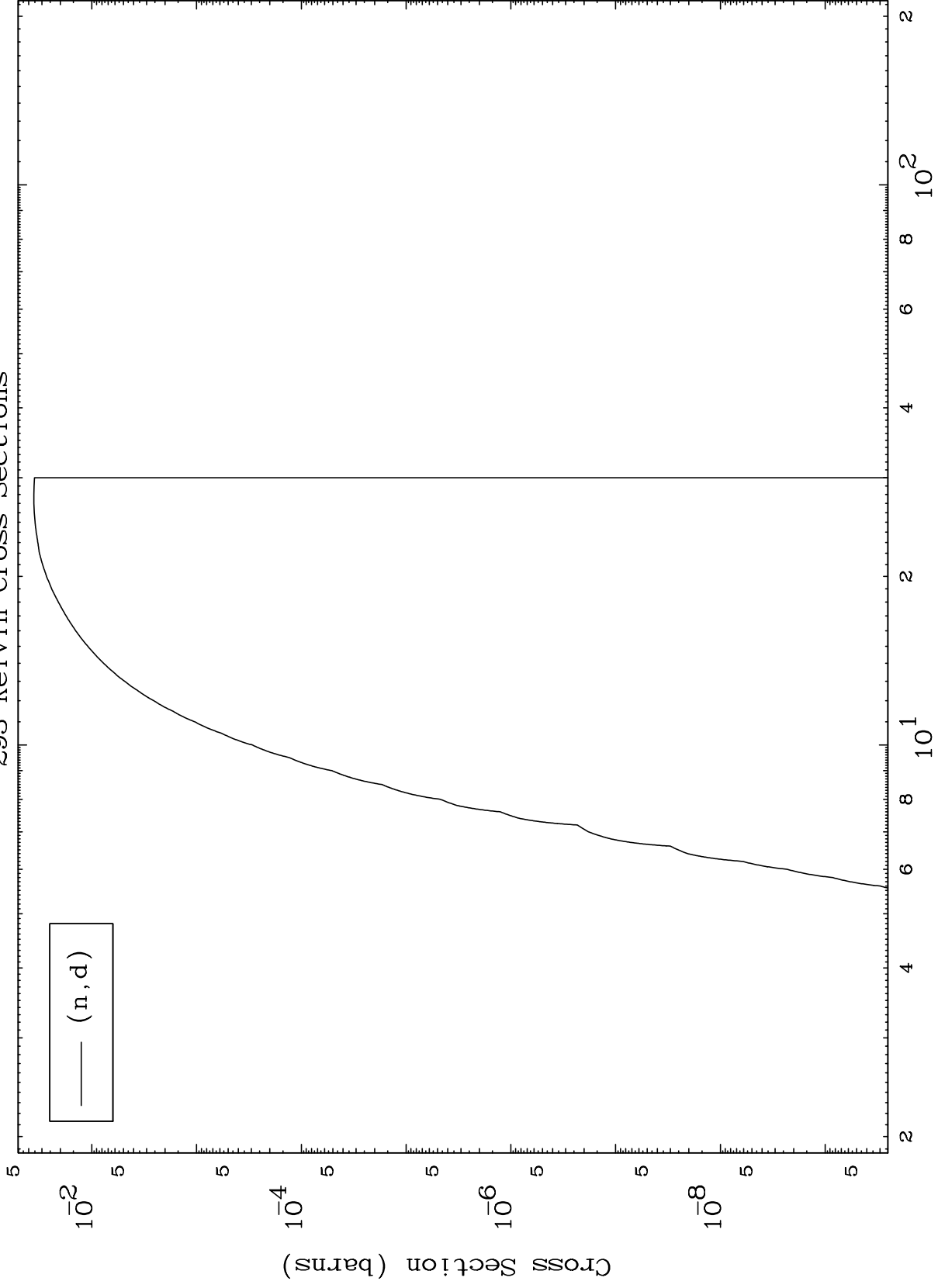
64-Gd-143



MAT 6398

(n,d) Levels  
293 Kelvin Cross Sections

64-Gd-143



10

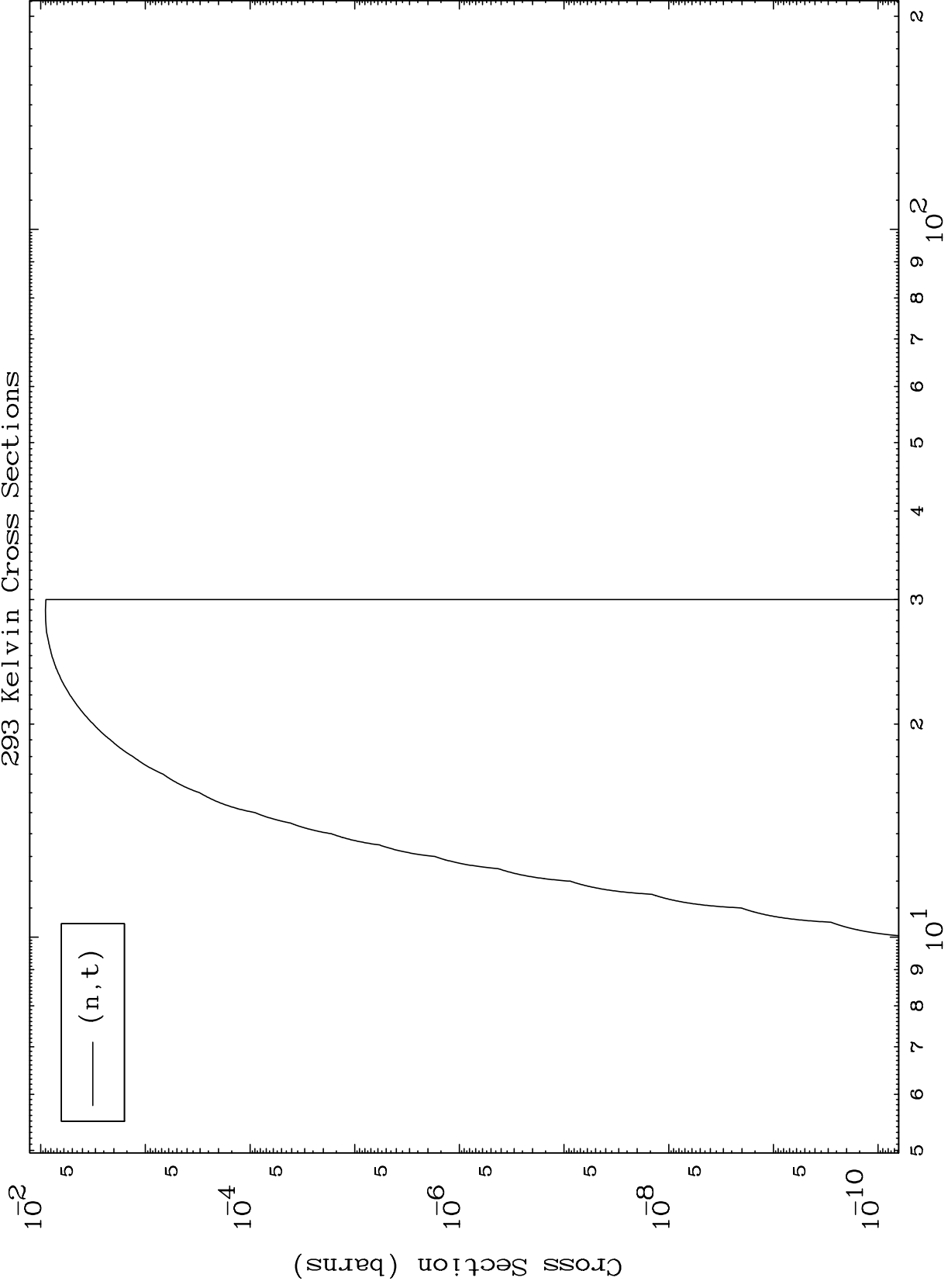
Incident Energy (MeV)

64-Gd-143

MAT 6398

(n,t) Levels  
293 Kelvin Cross Sections

64-Gd-143



11

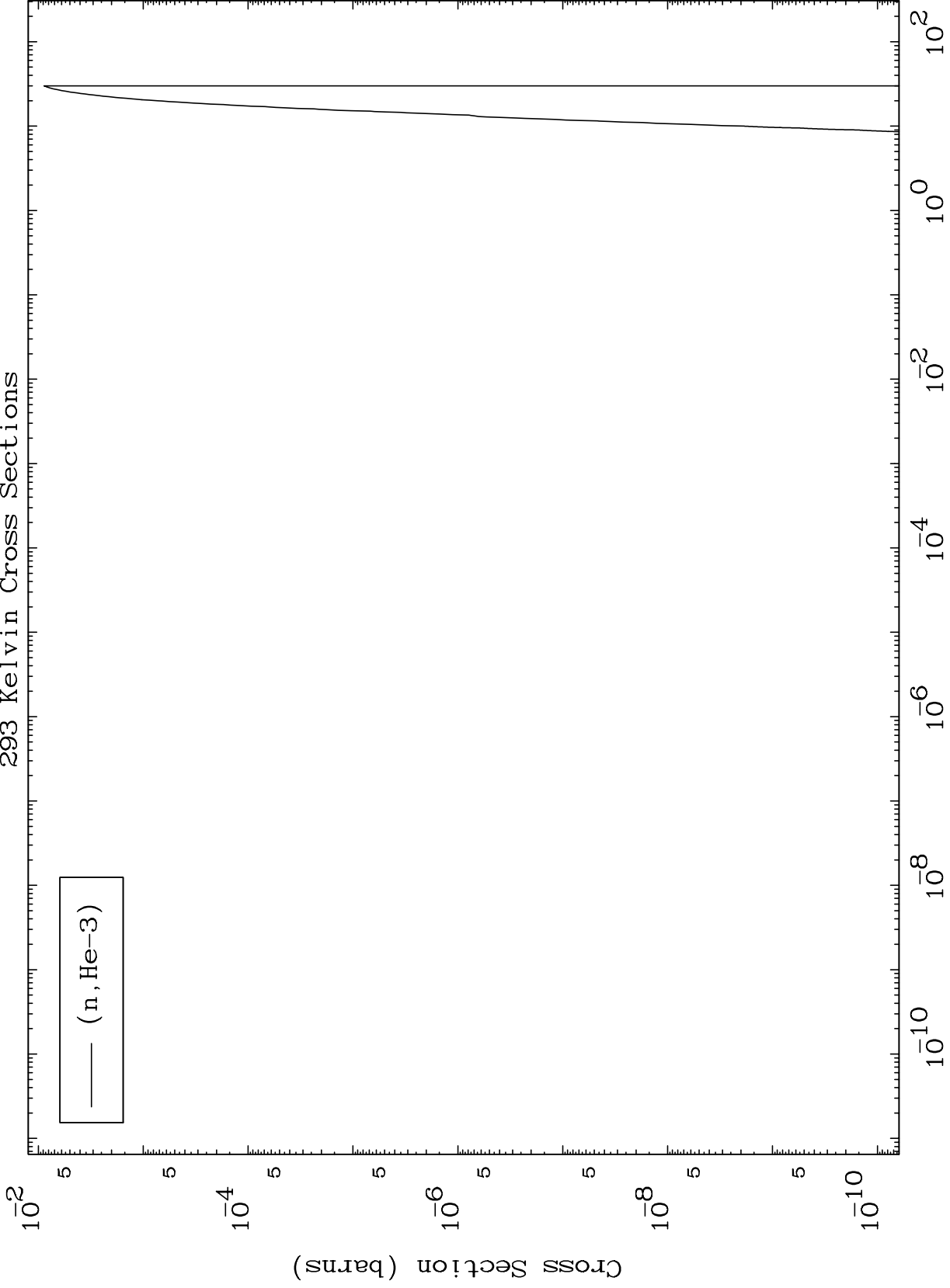
Incident Energy (MeV)

64-Gd-143

MAT 6398

(n,He3) Levels  
293 Kelvin Cross Sections

64-Gd-143



12

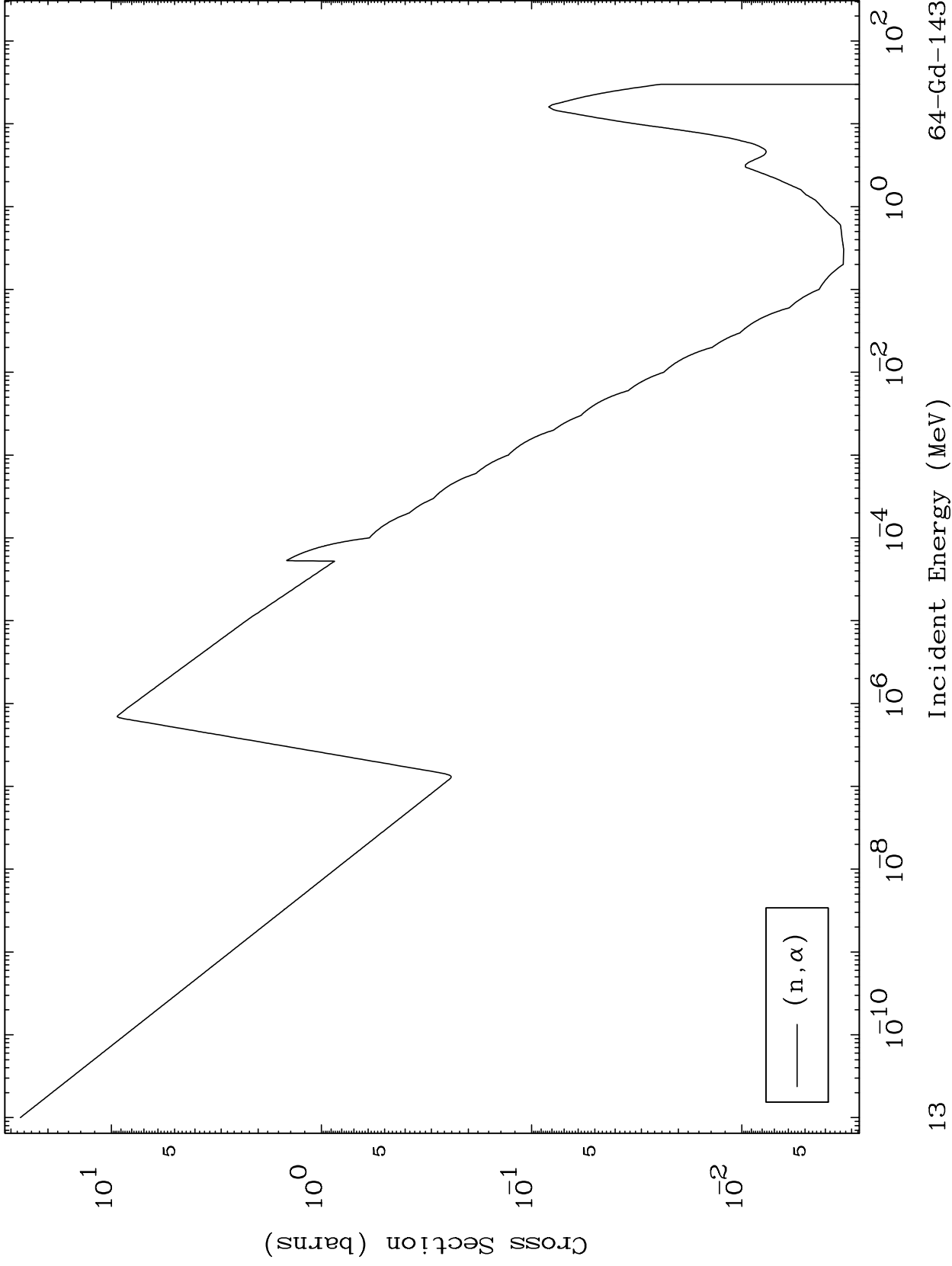
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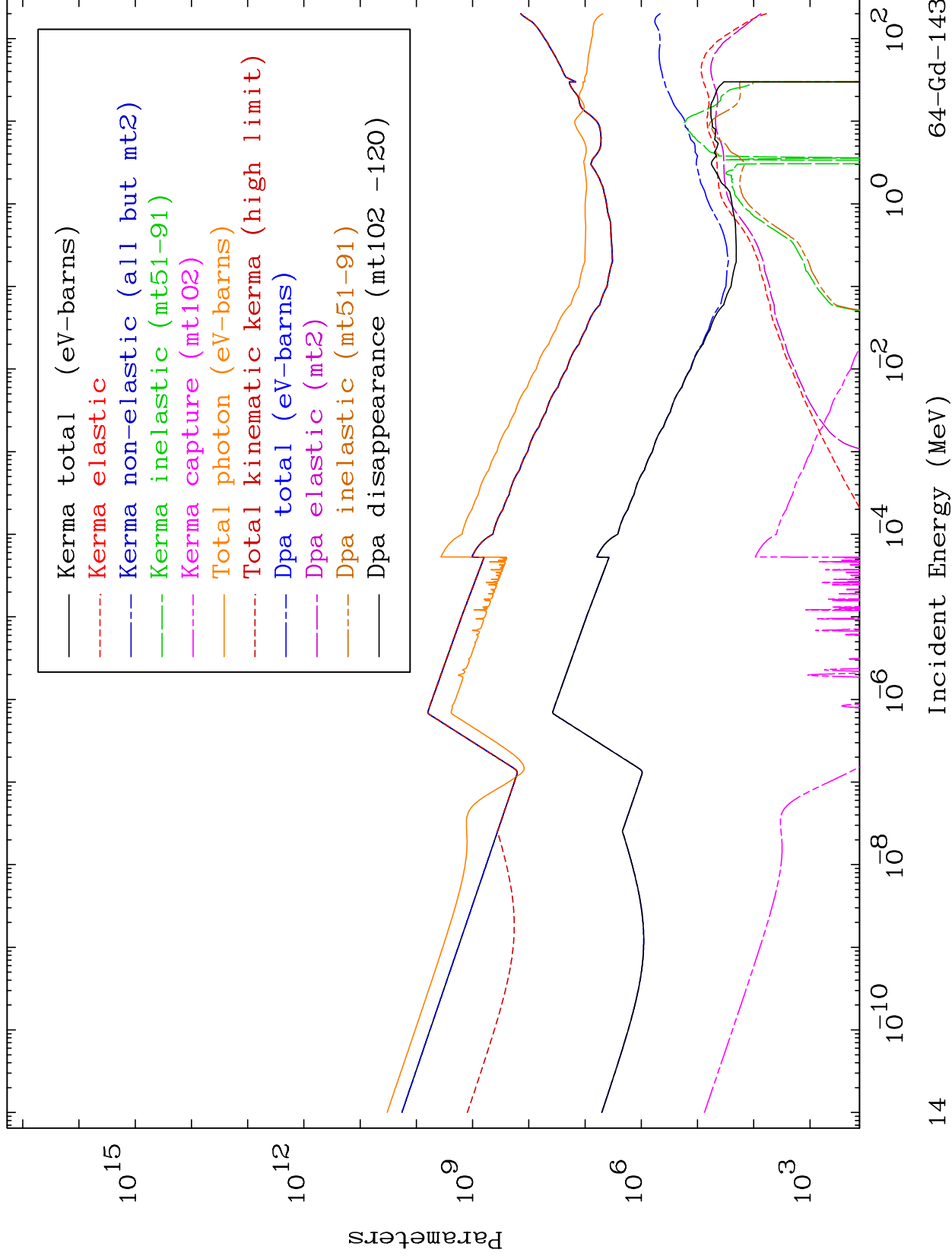
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MAT 6398

(n,α) Levels  
293 Kelvin Cross Sections

64-Gd-143

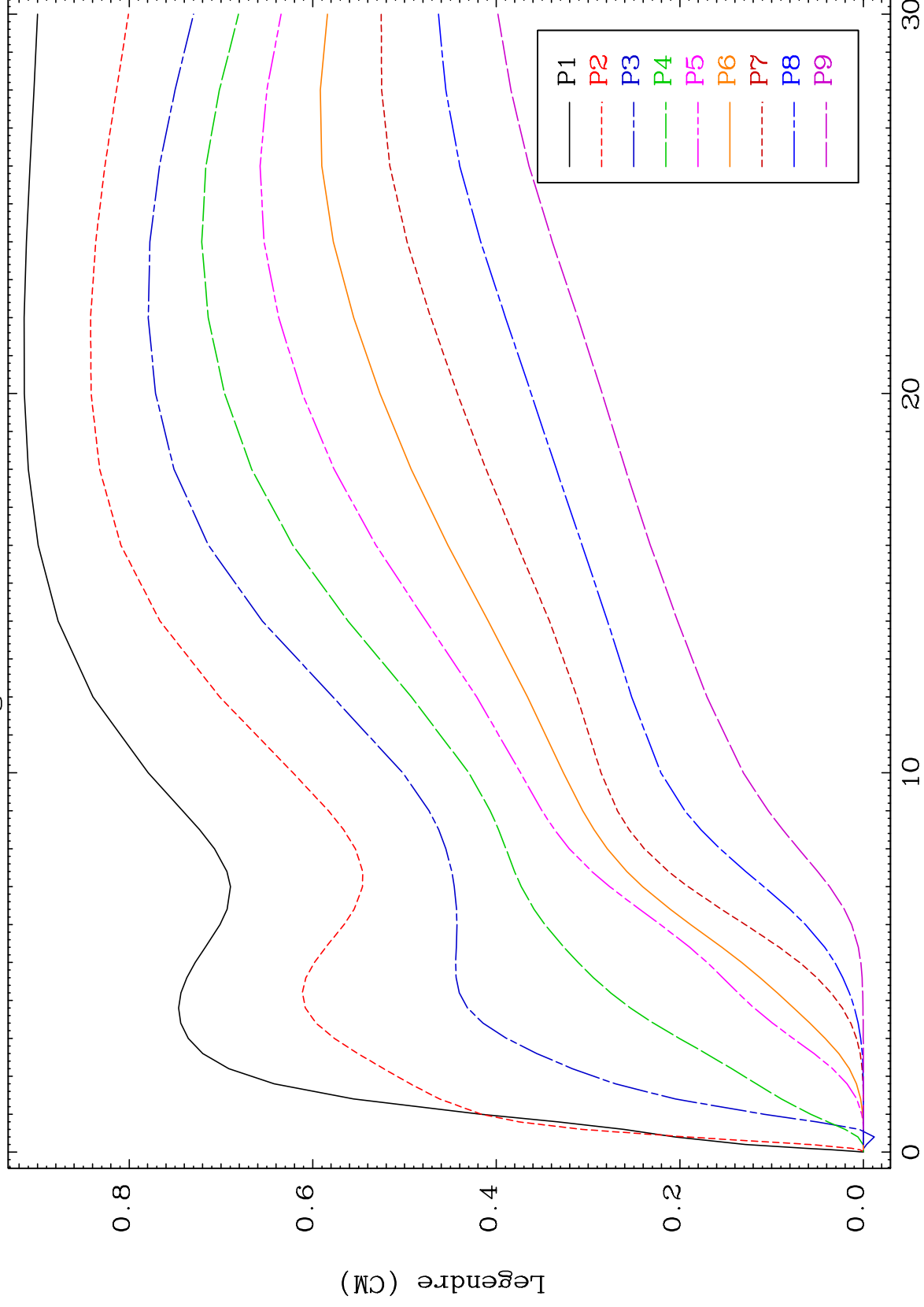




MAT 6398

Elastic Legendre Coefficients

64-Gd-143



15

Incident Energy (MeV)

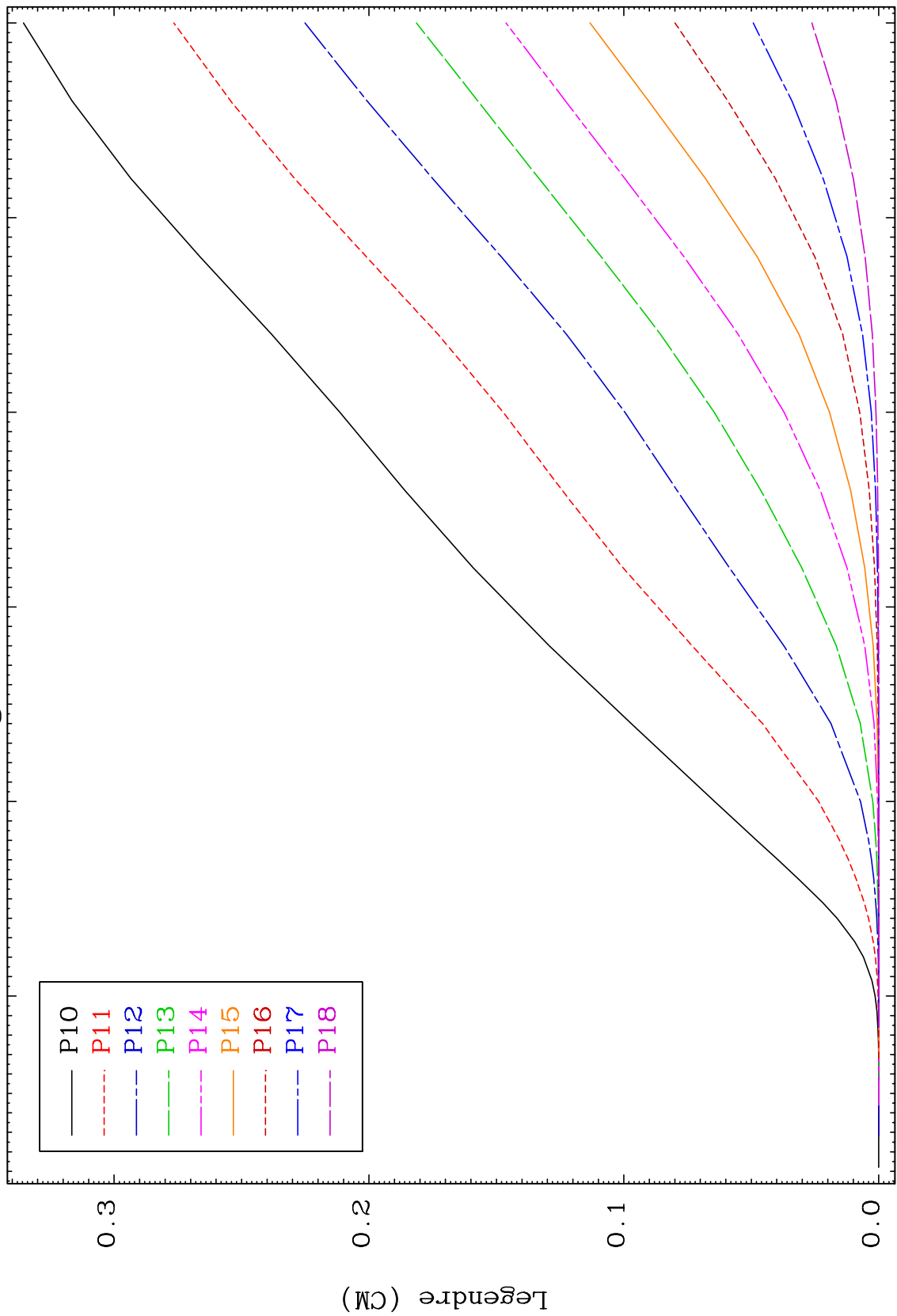
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MAT 6398

Elastic Legendre Coefficients

64-Gd-143



16

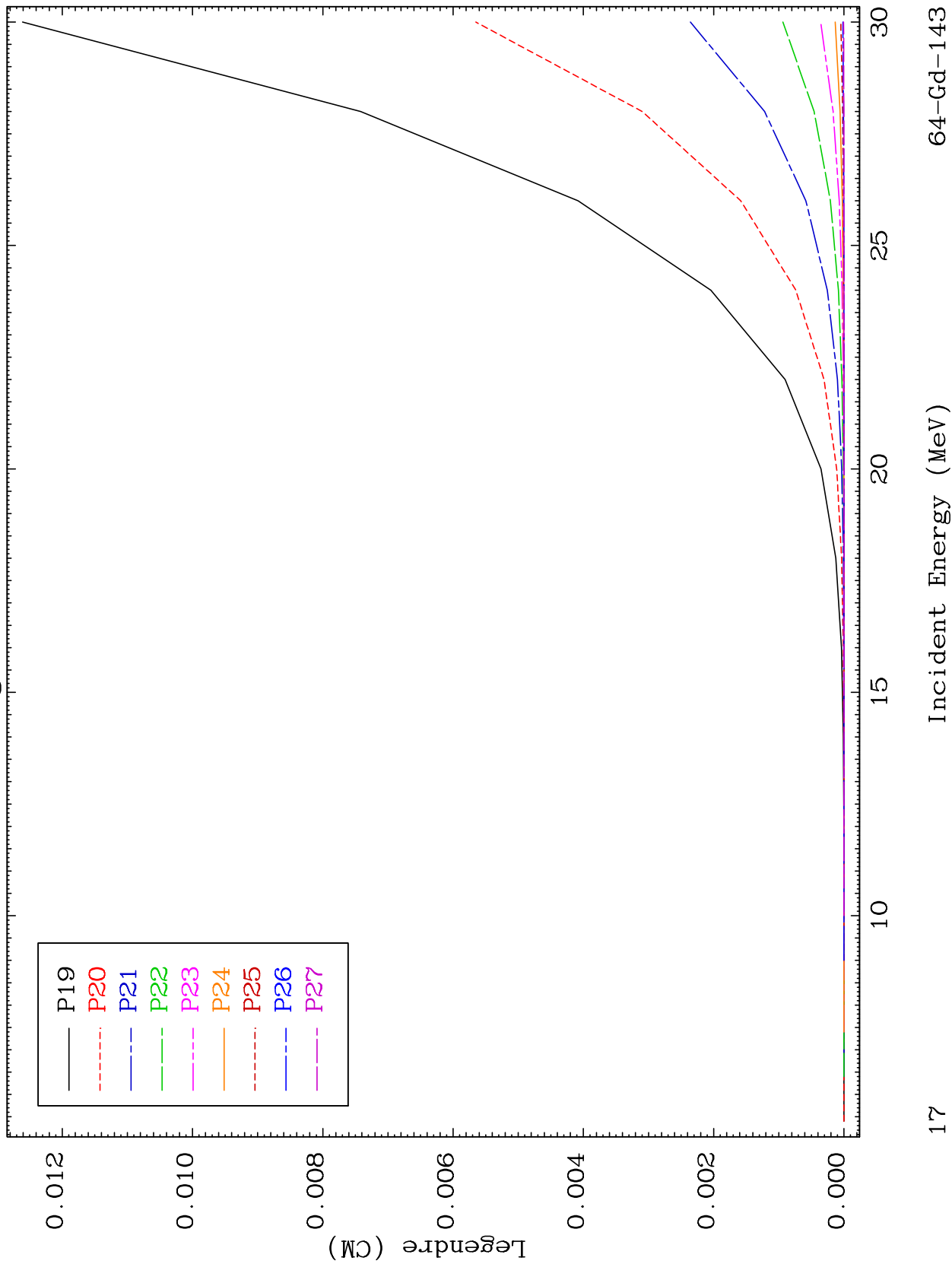
Incident Energy (MeV)

64-Gd-143

MAT 6398

### Elastic Legendre Coefficients

64-Gd-143



17

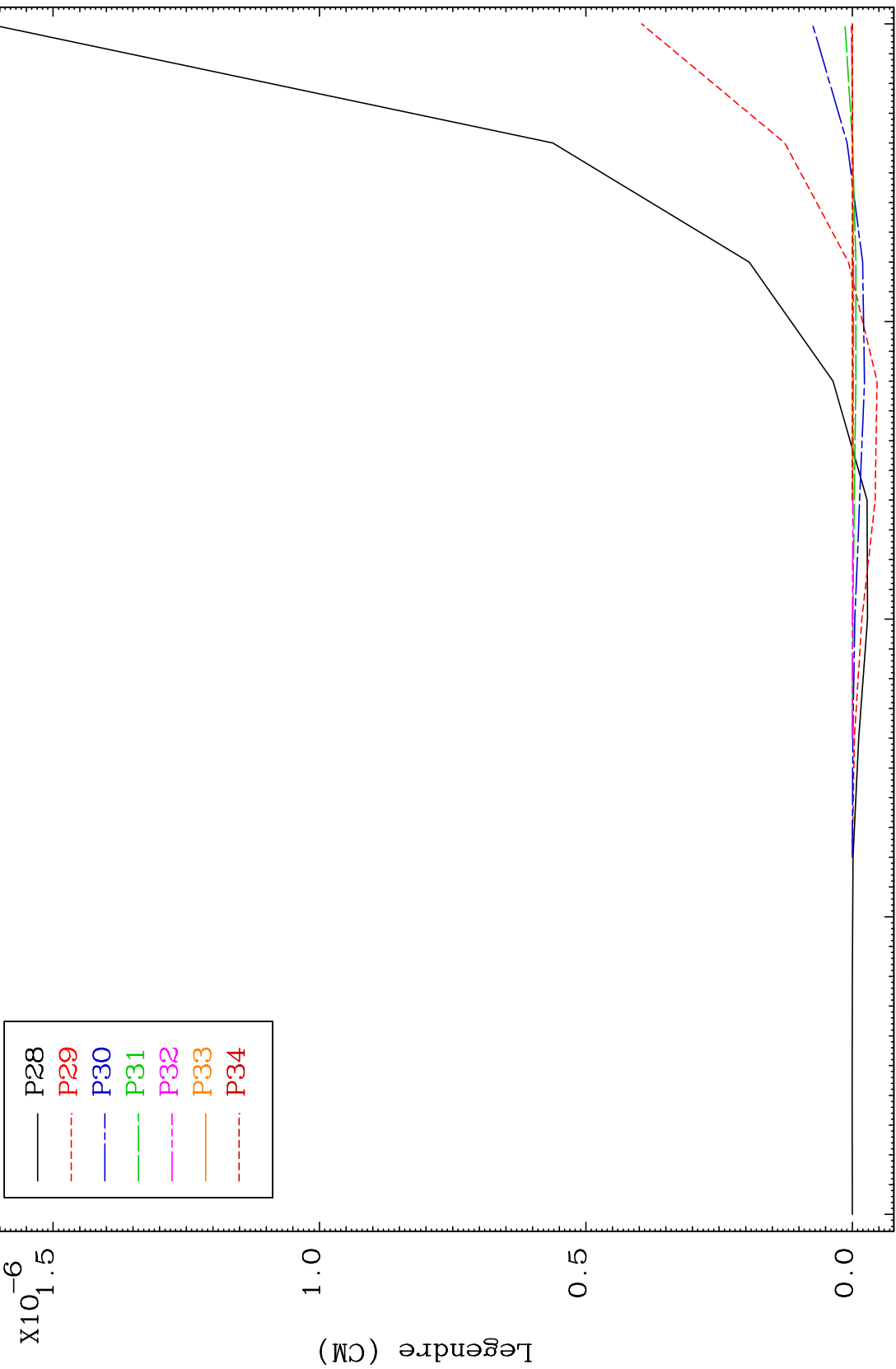
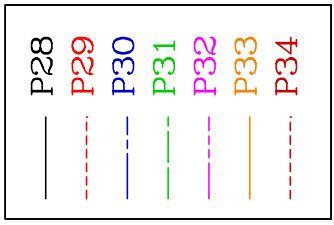
64-Gd-143

Incident Energy (MeV)

MAT 6398

Elastic Legendre Coefficients

64-Gd-143



18

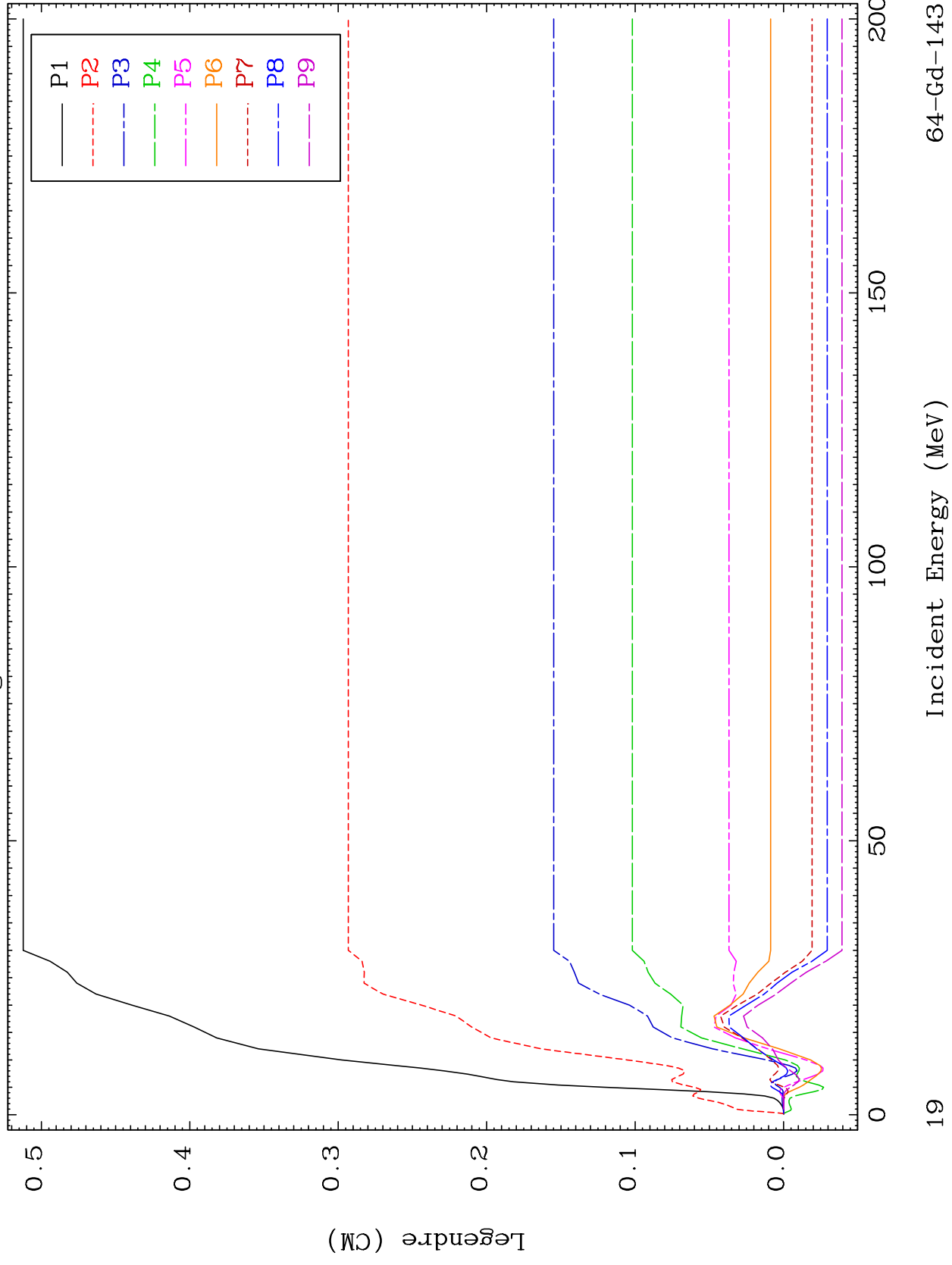
Incident Energy (MeV)

64-Gd-143

MAT 6398

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

64-Gd-143

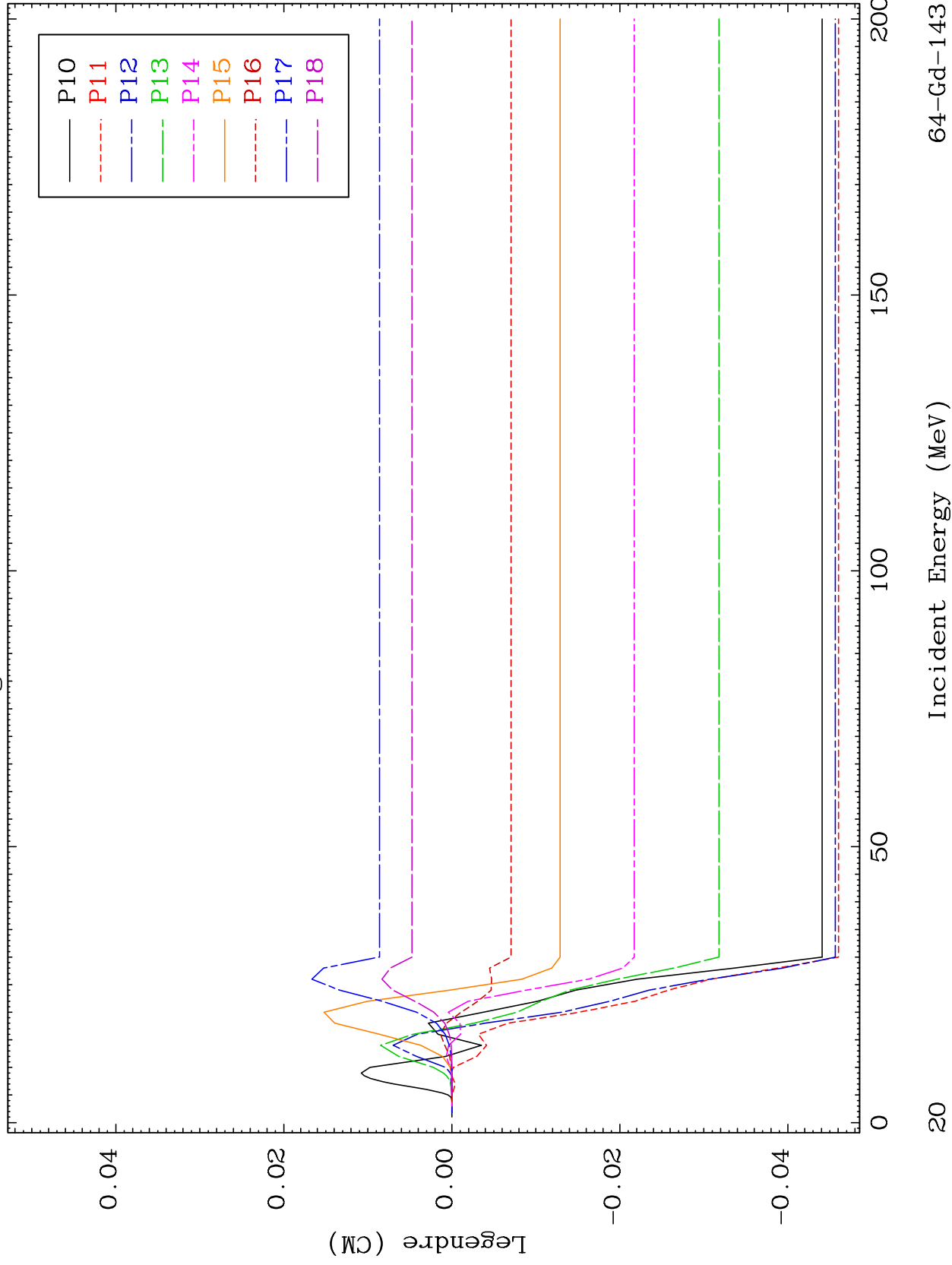


19

MAT 6398

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

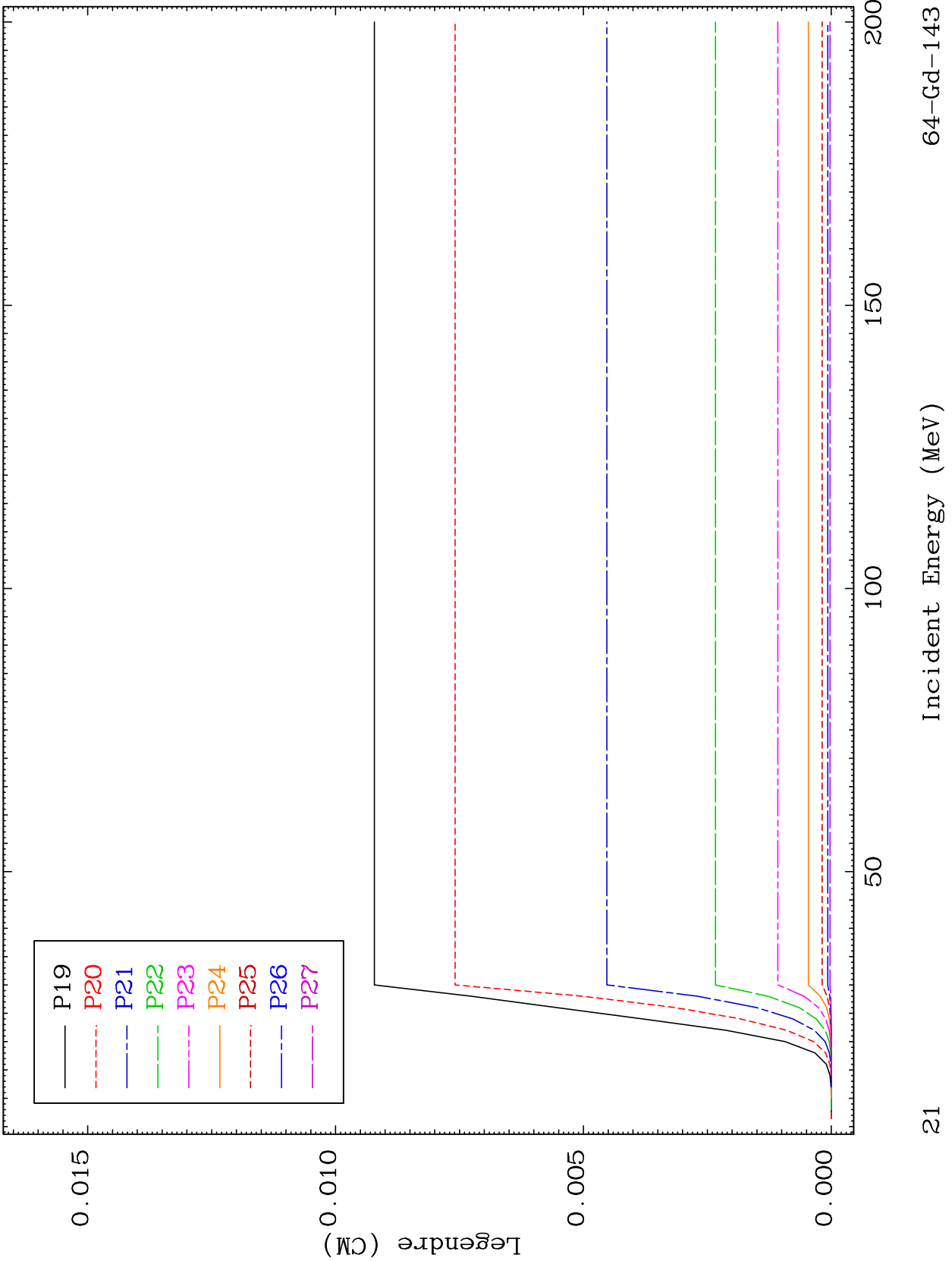
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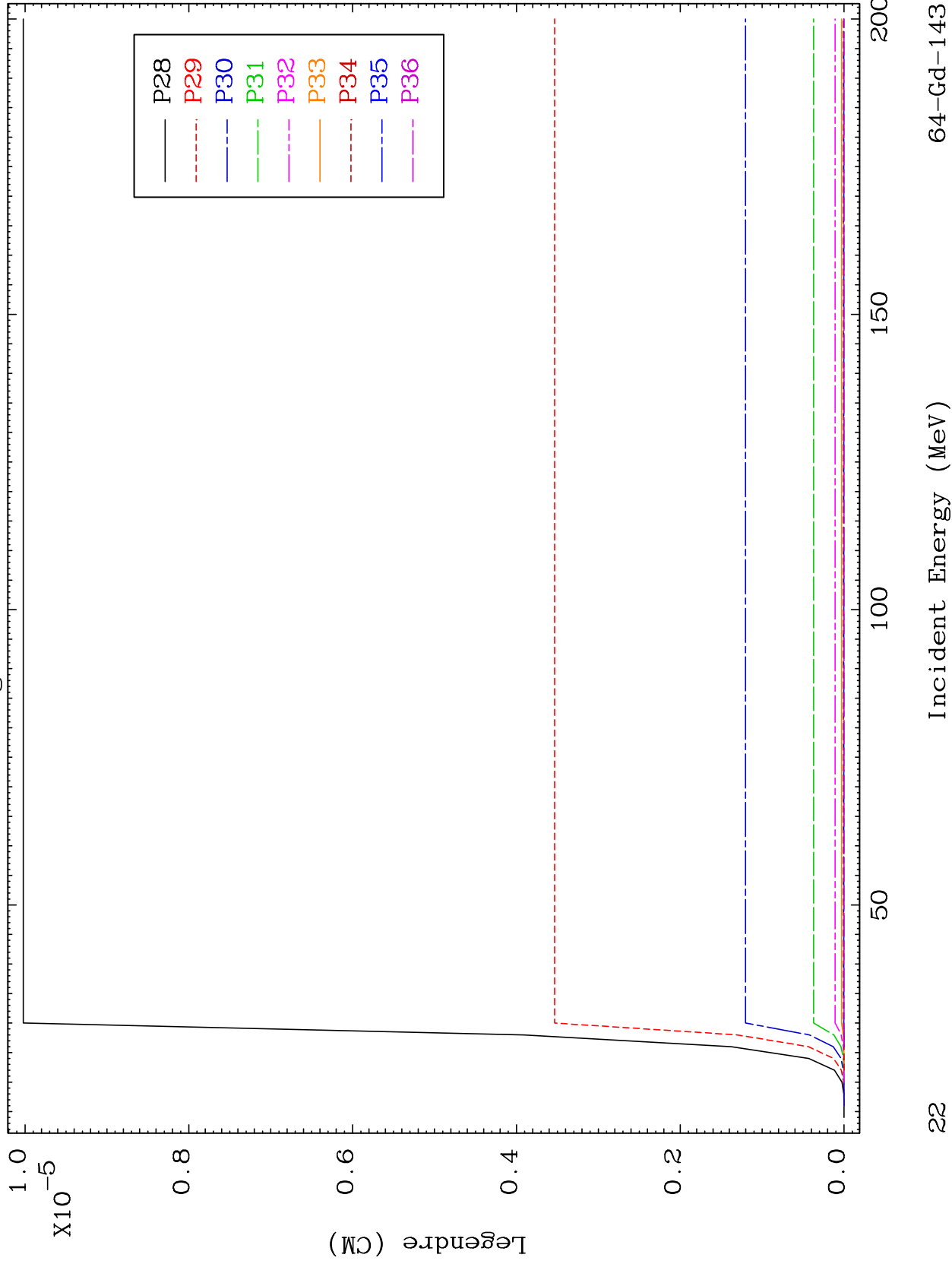


MAT 6398

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

64-Gd-143

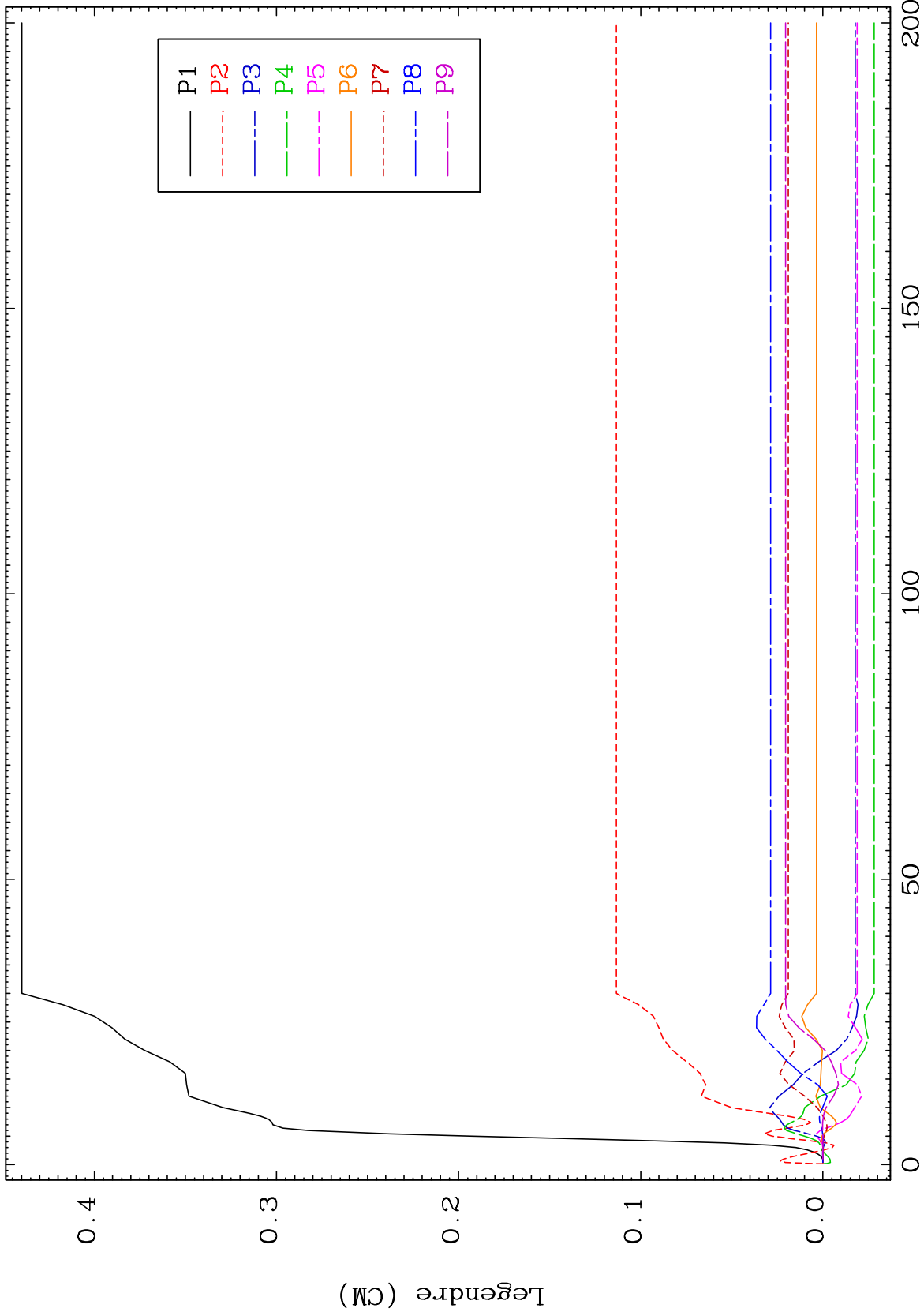




MAT 6398

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

64-Gd-143



23

Incident Energy (MeV)

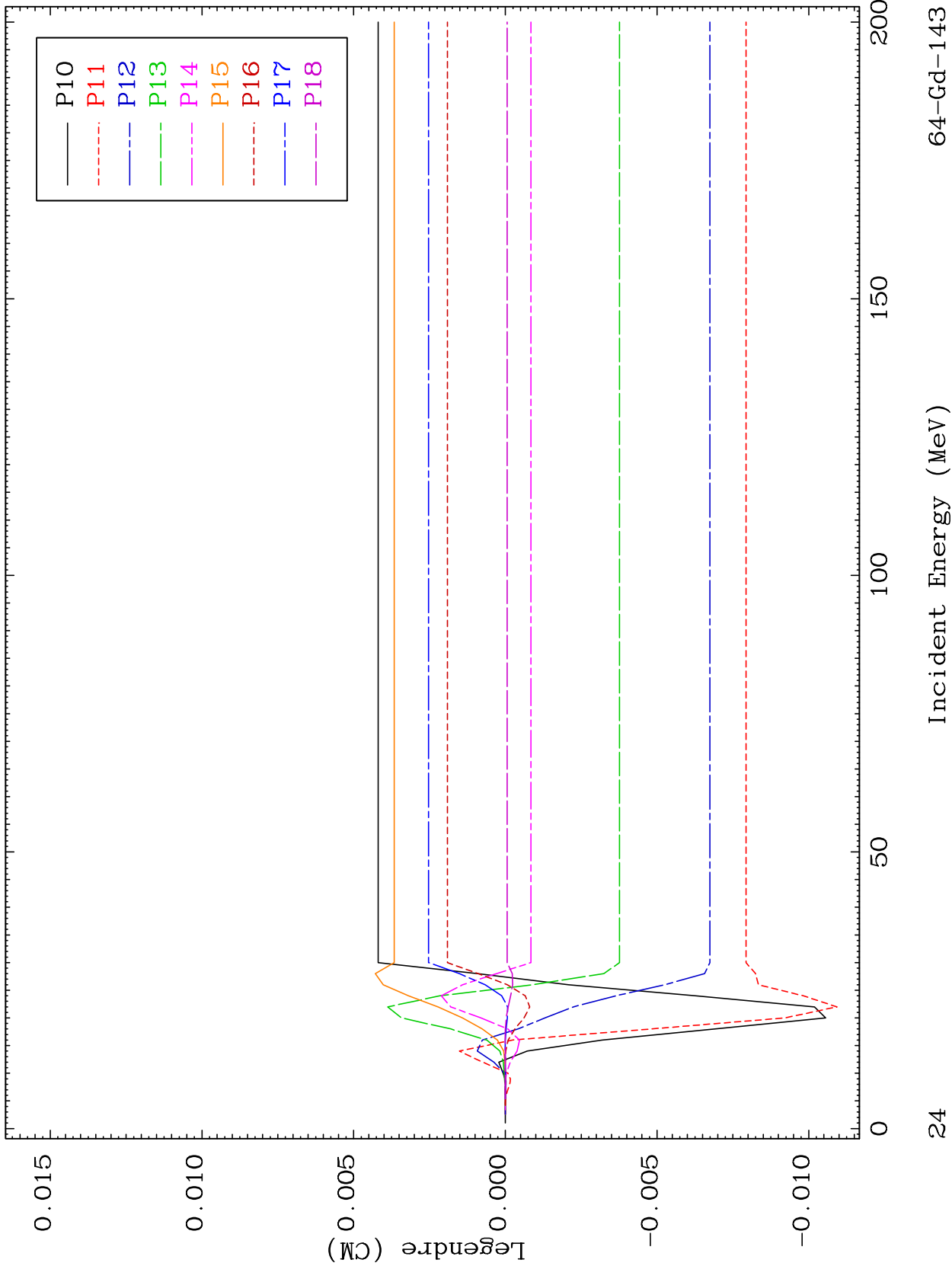
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MAT 6398

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

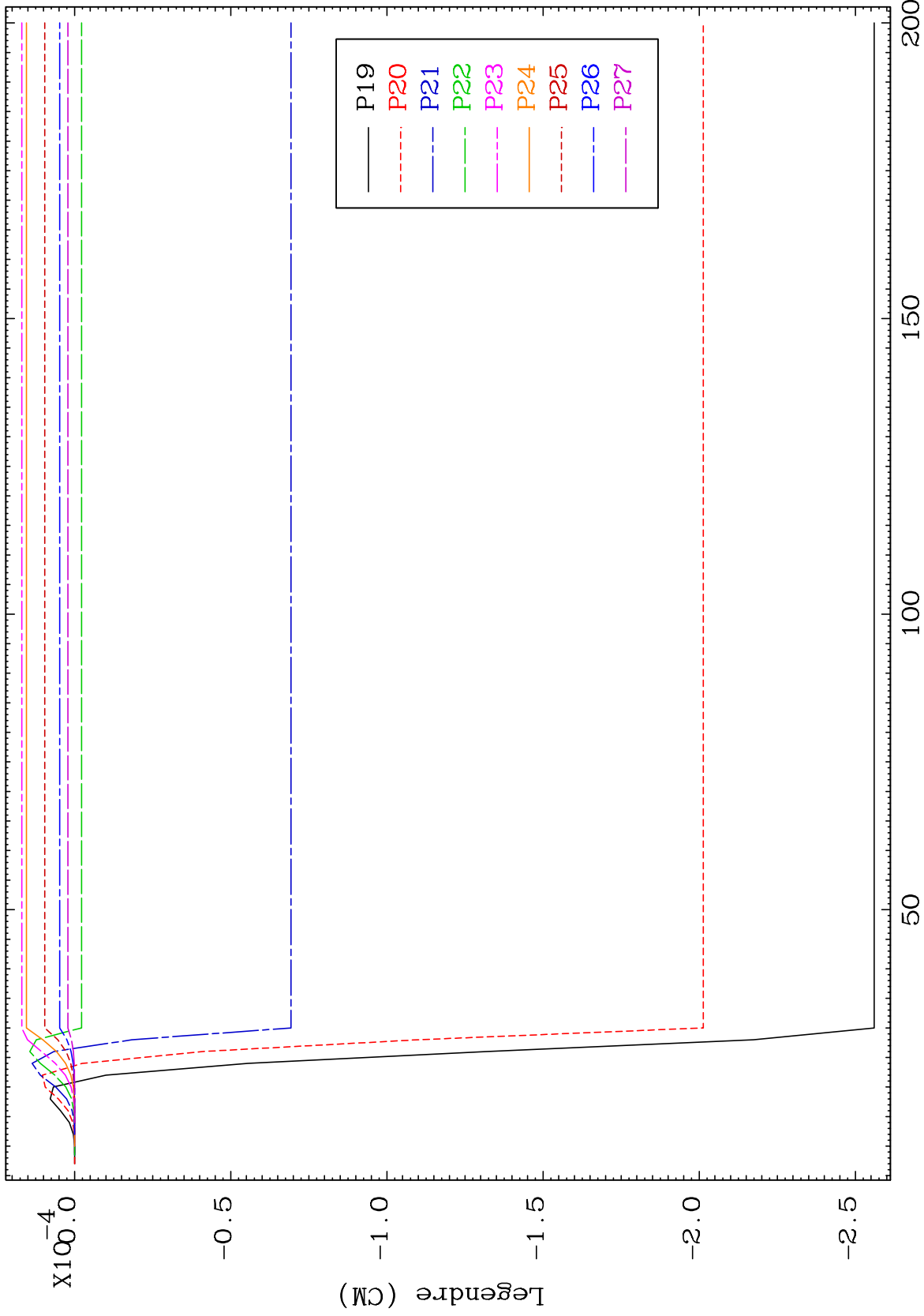
64-Gd-143



24

Incident Energy (MeV)

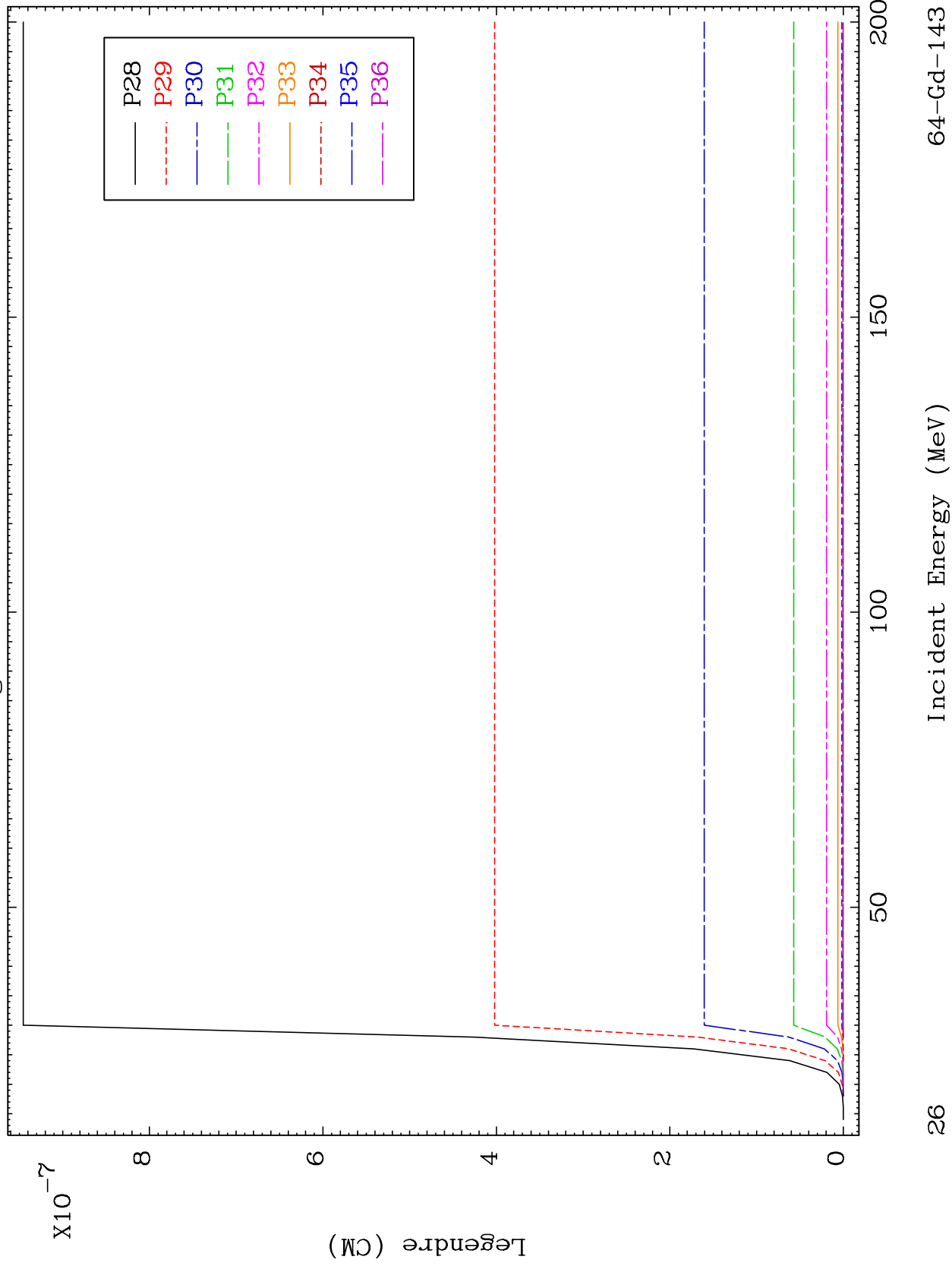
64-Gd-143



MAT 6398

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

64-Gd-143



26

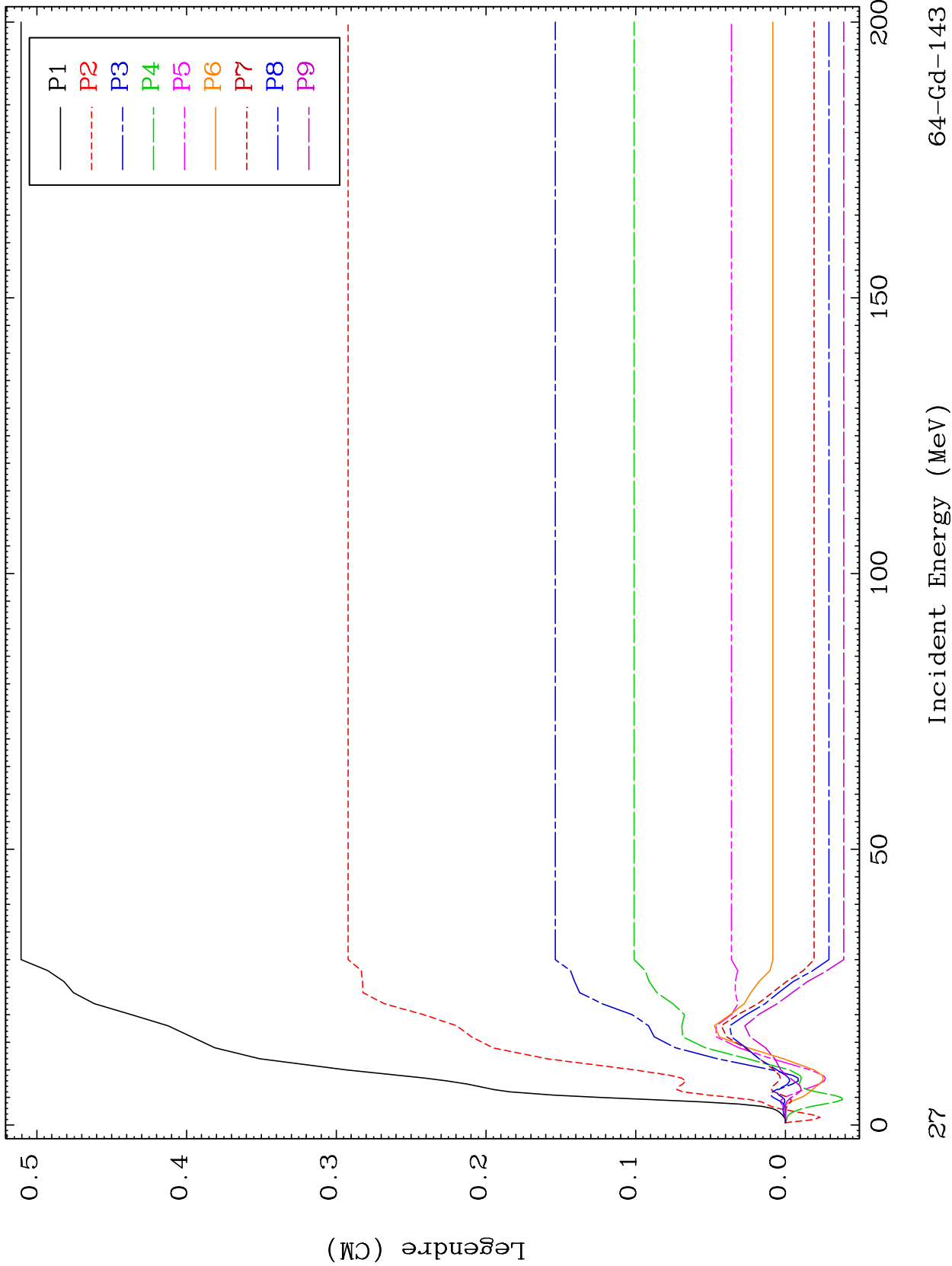
Incident Energy (MeV)

64-Gd-143

MAT 6398

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

64-Gd-143



64-Gd-143

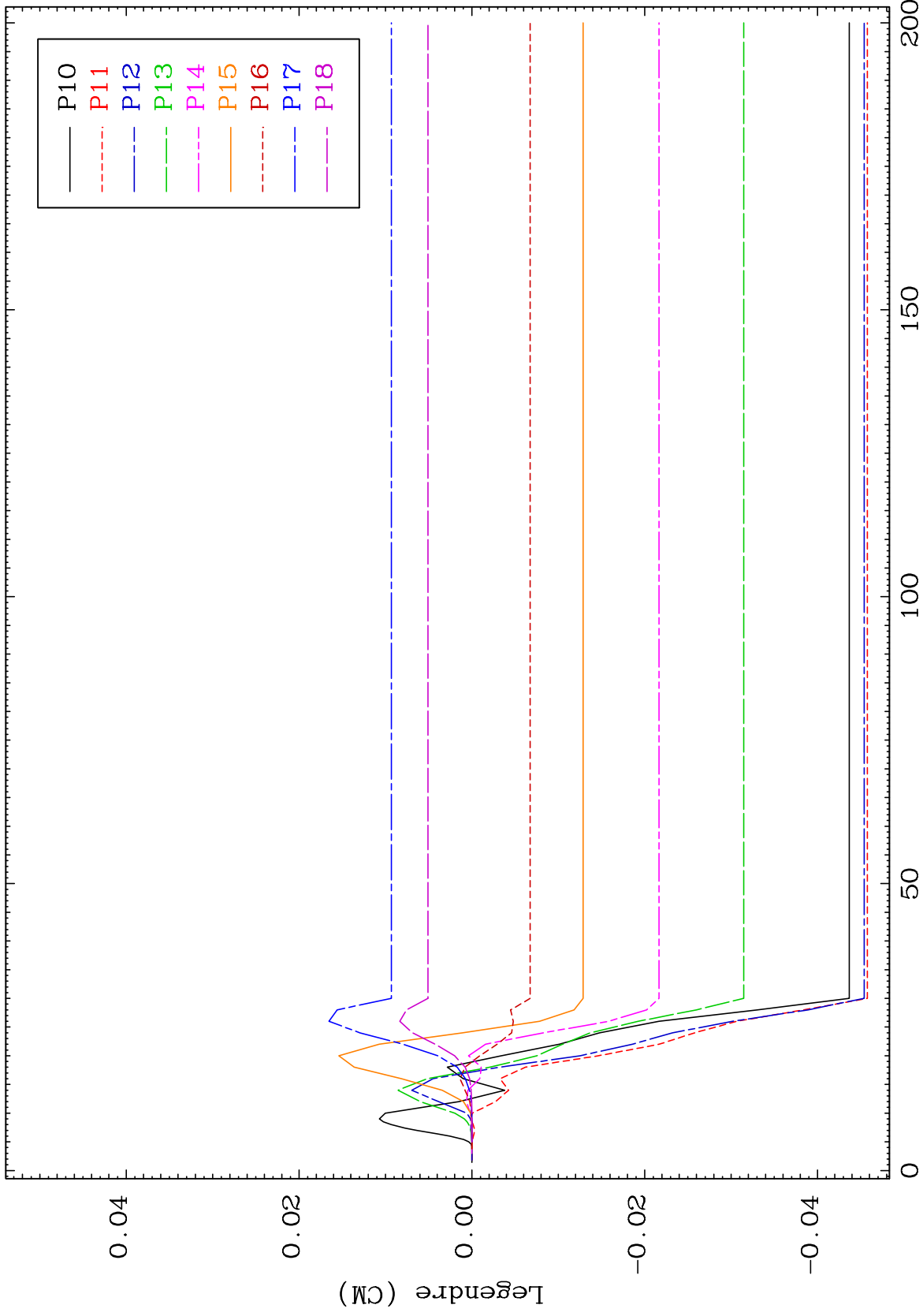
Incident Energy (MeV)

27

MAT 6398

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

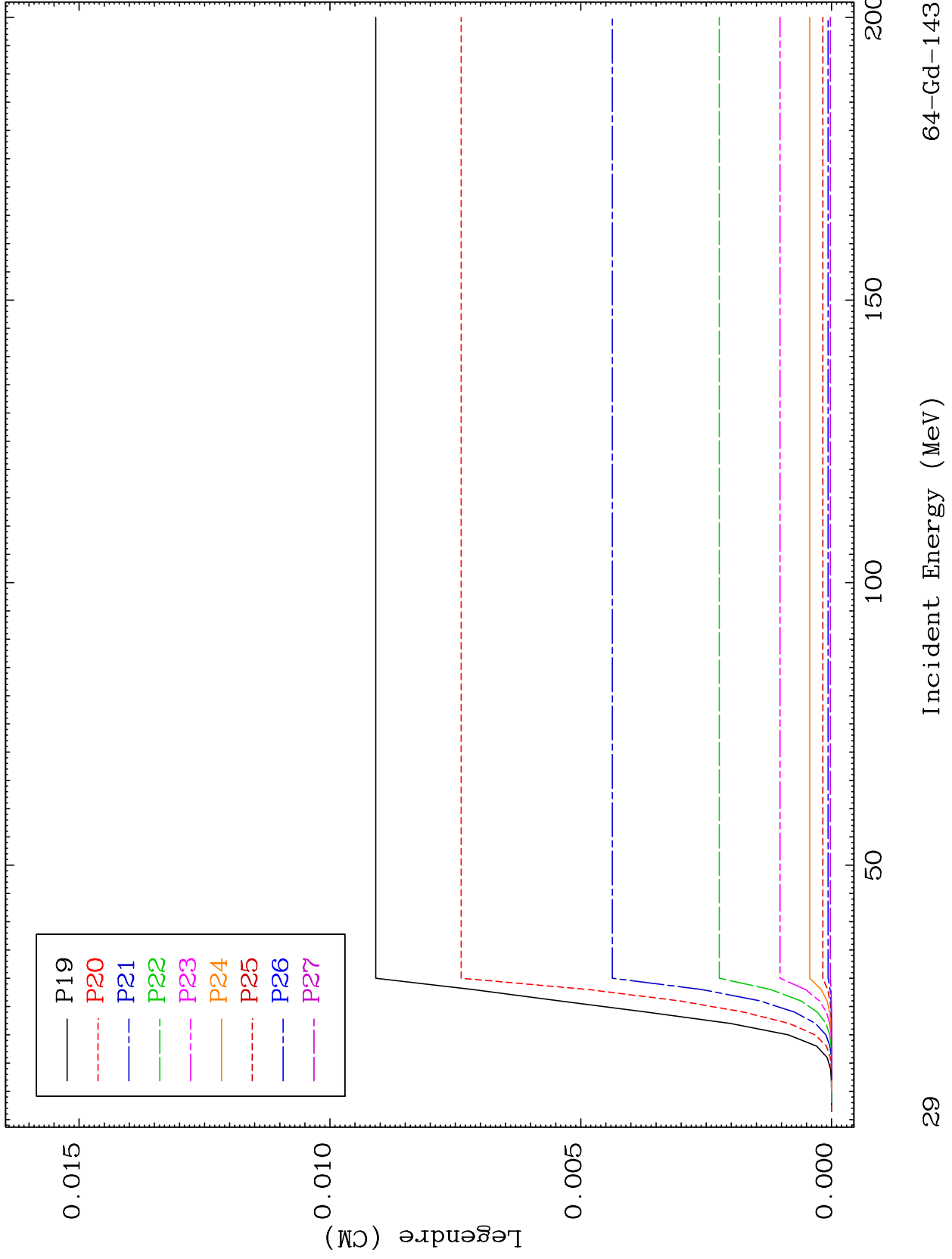
64-Gd-143



28

Incident Energy (MeV)

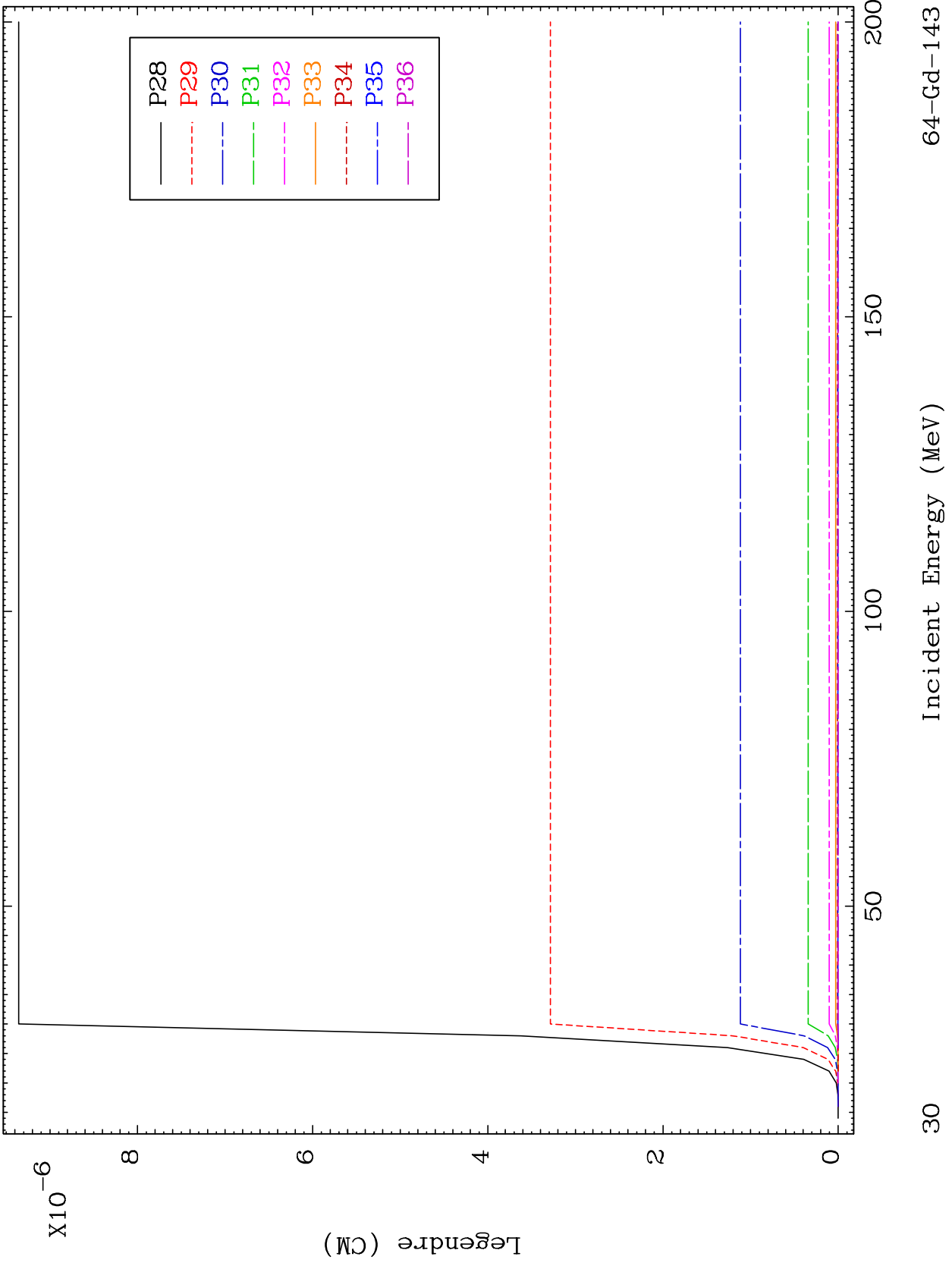
64-Gd-143



MAT 6398

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

64-Gd-143

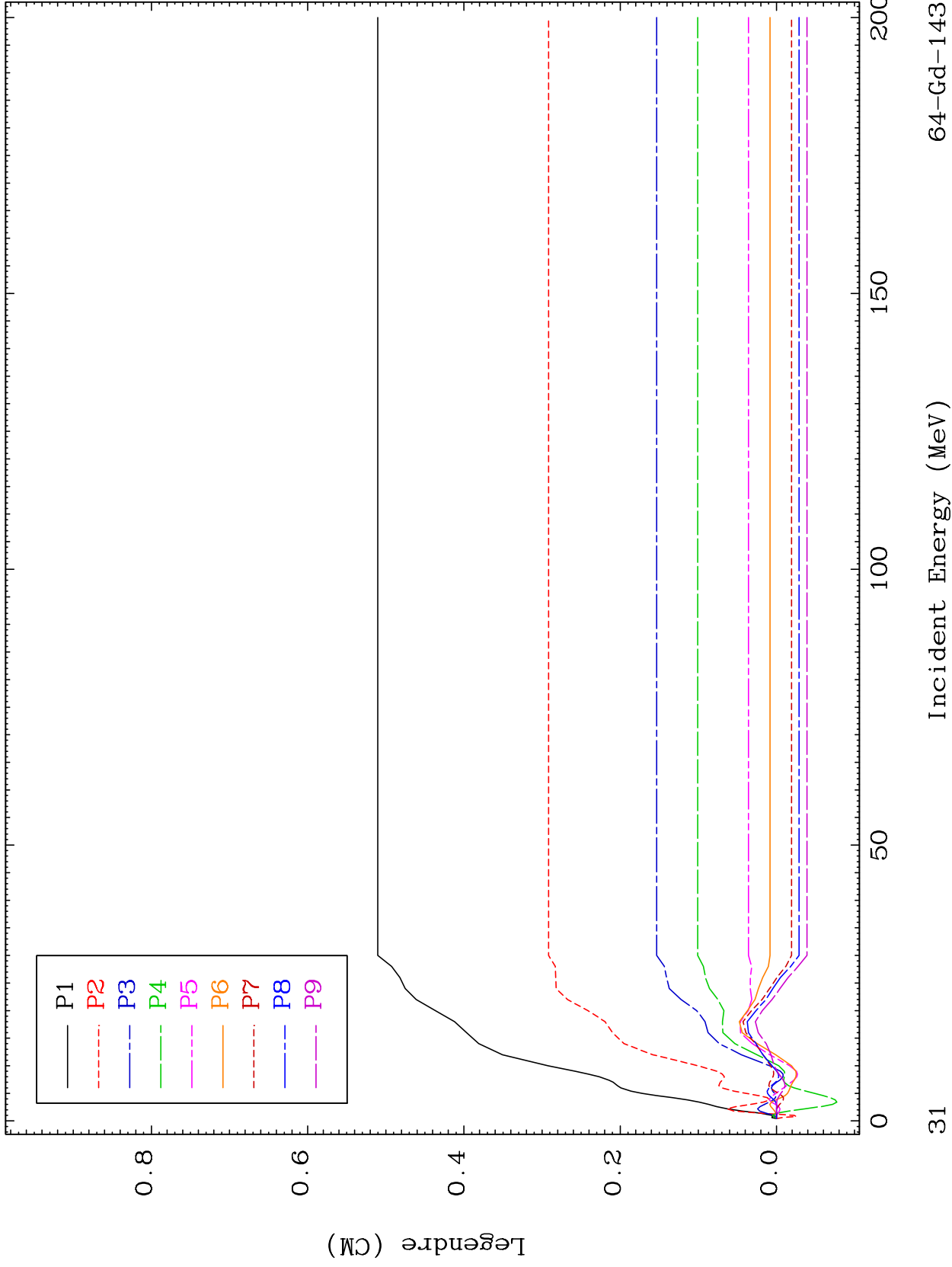


64-Gd-143

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

64-Gd-143



31

Incident Energy (MeV)

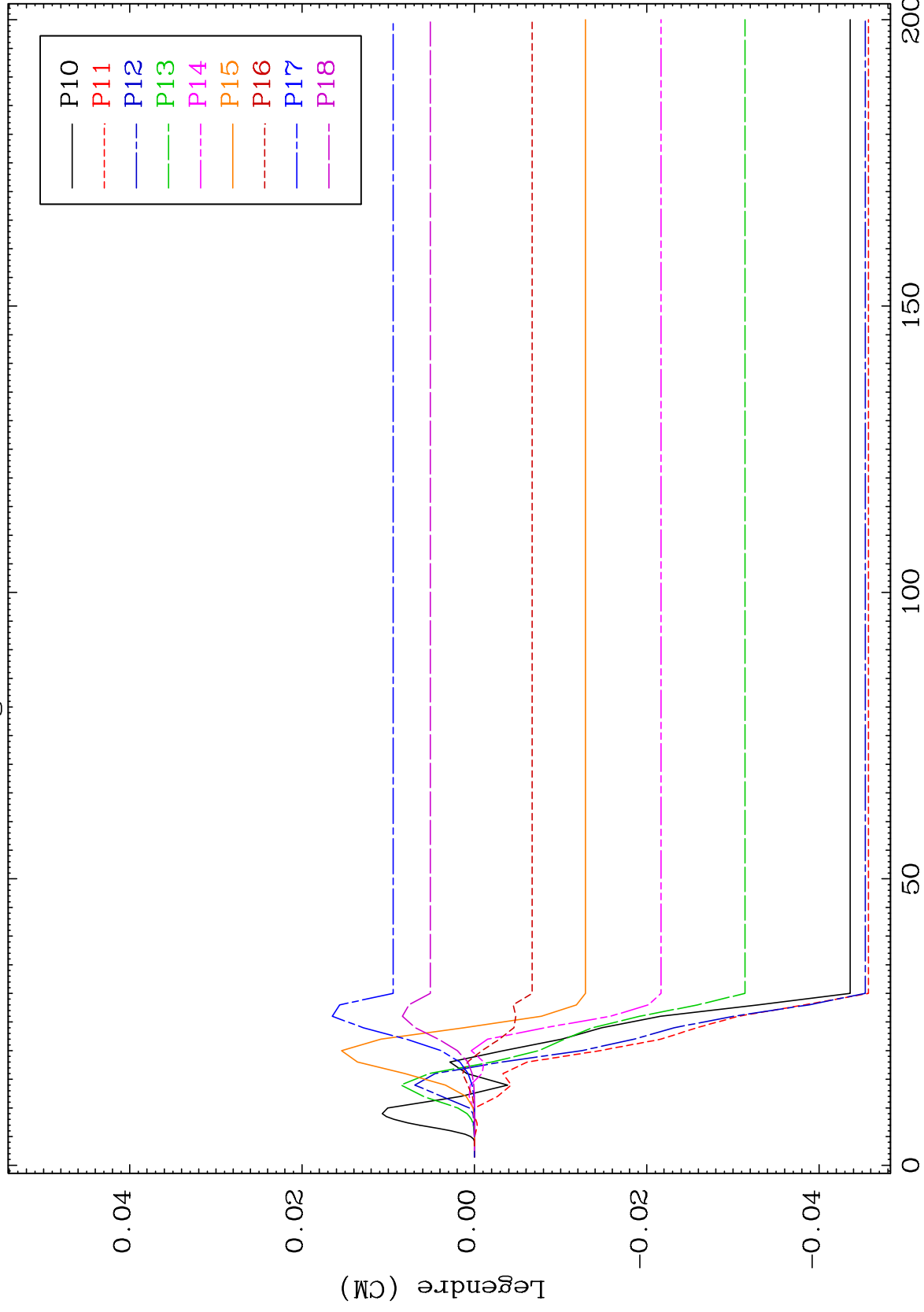
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MAT 6398

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

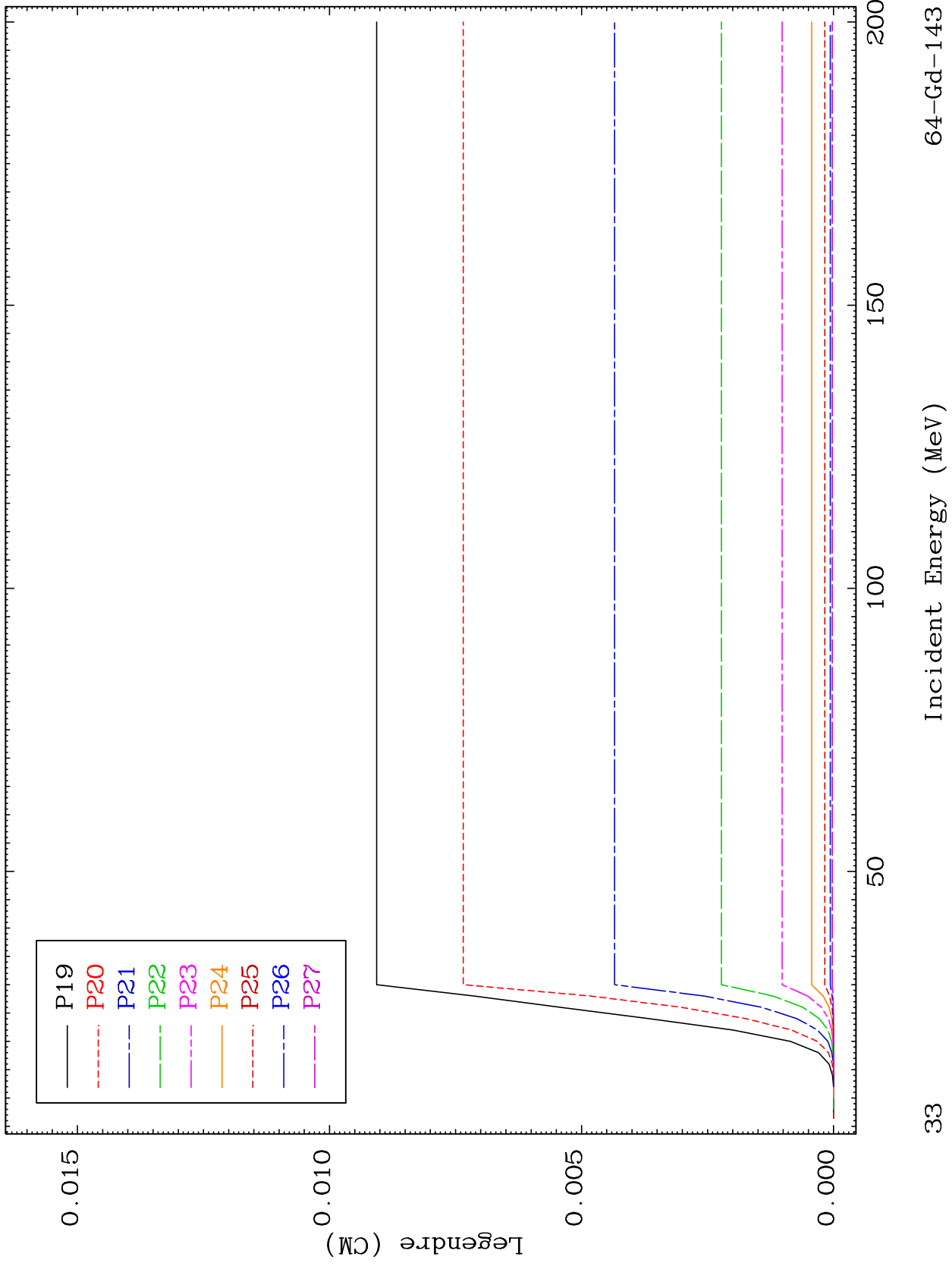
64-Gd-143



32

Incident Energy (MeV)

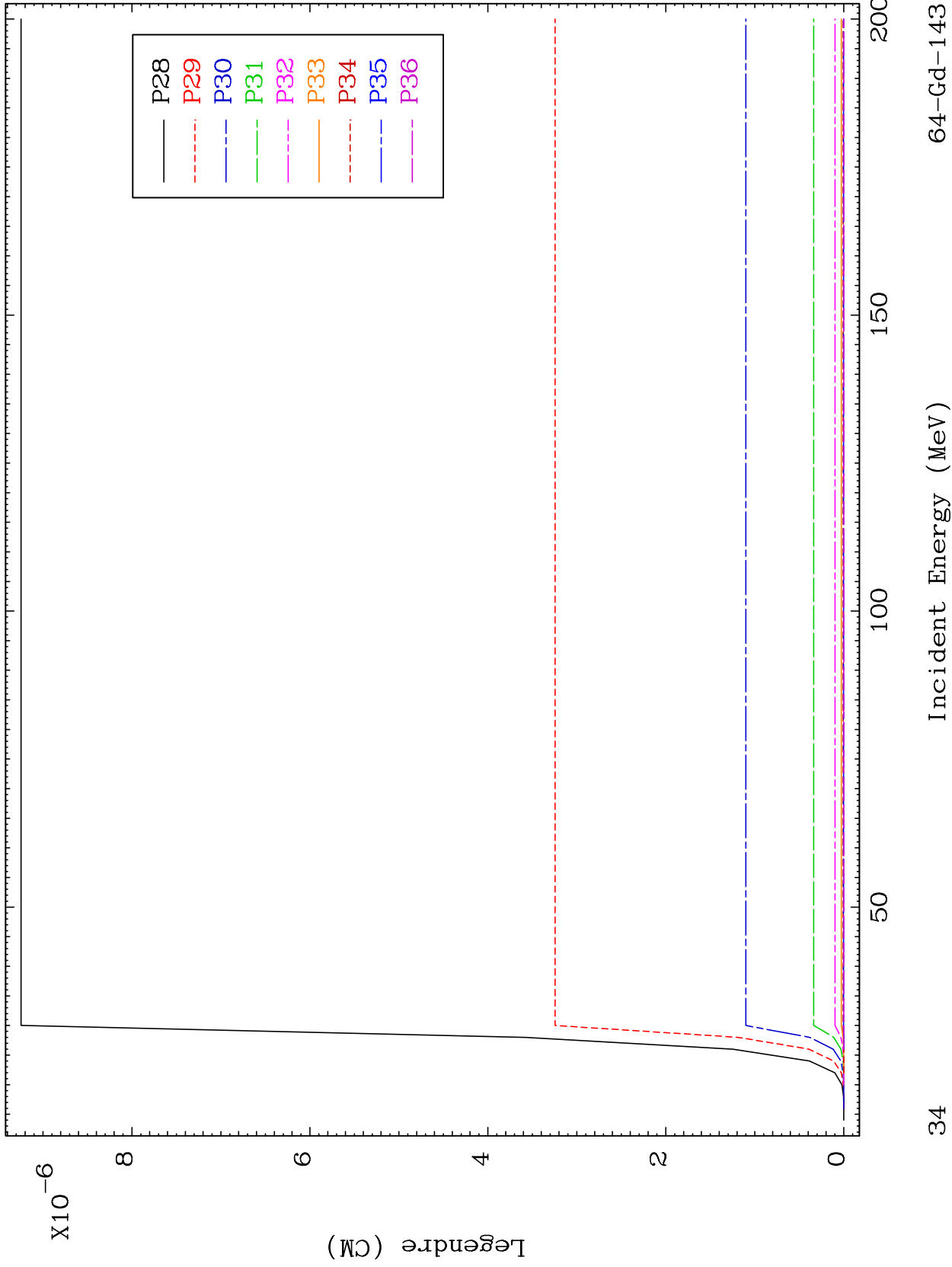
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MAT 6398

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

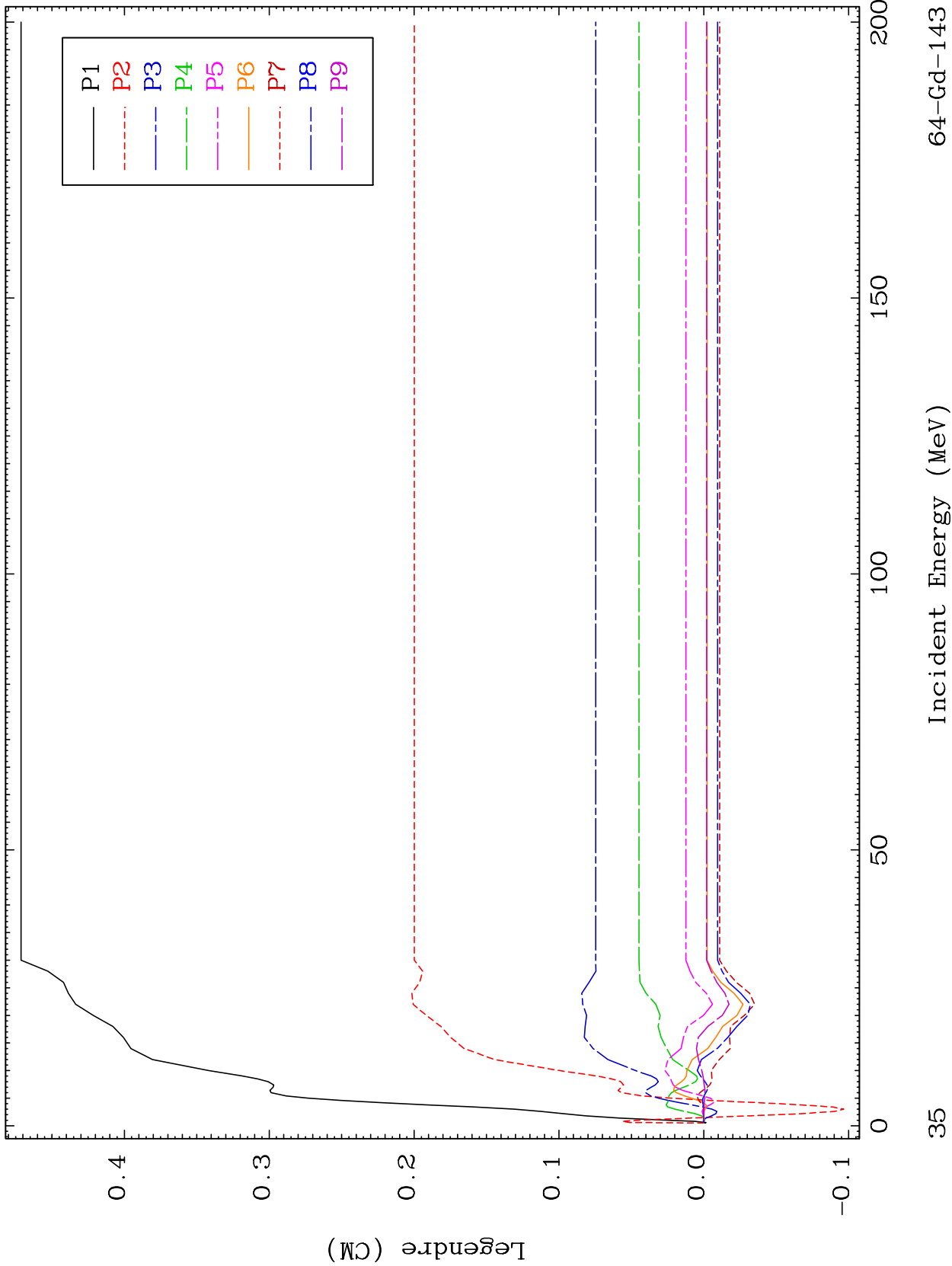
64-Gd-143



MAT 6398

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

64-Gd-143



64-Gd-143

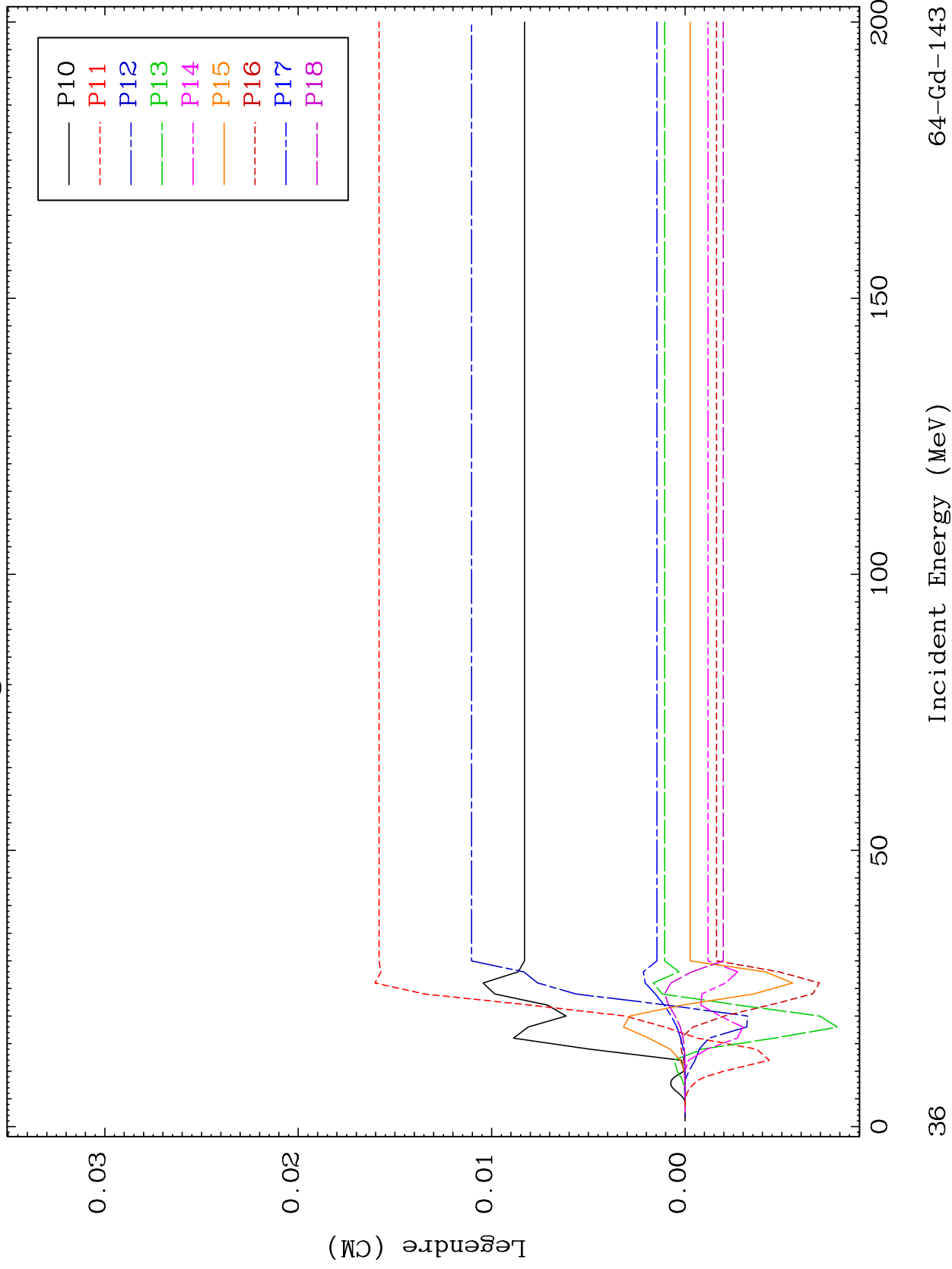
Incident Energy (MeV)

35

MAT 6398

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

64-Gd-143



36

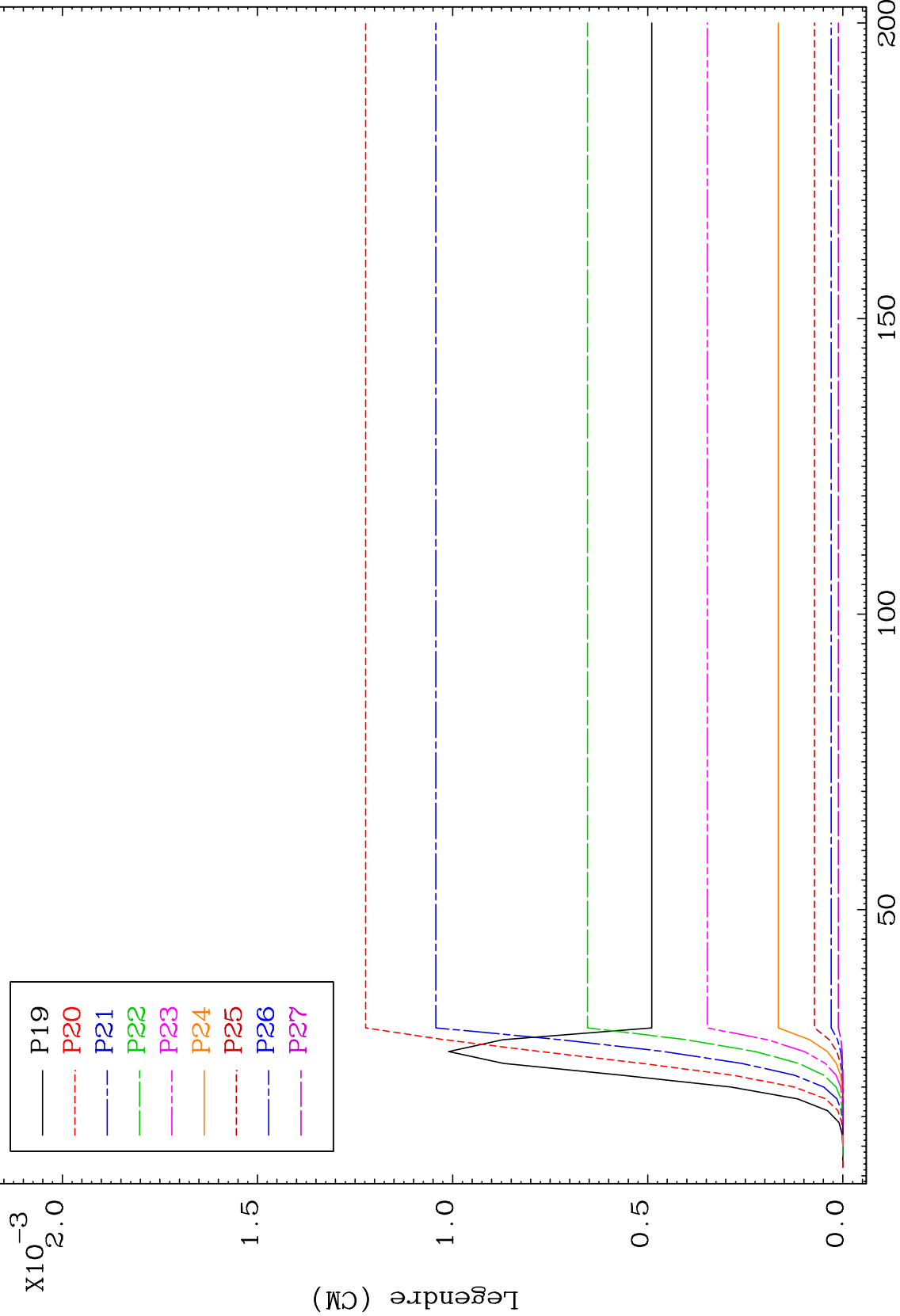
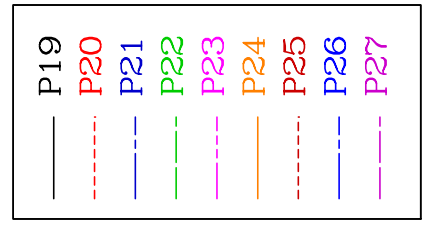
Incident Energy (MeV)

64-Gd-143

MAT 6398

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

64-Gd-143



37

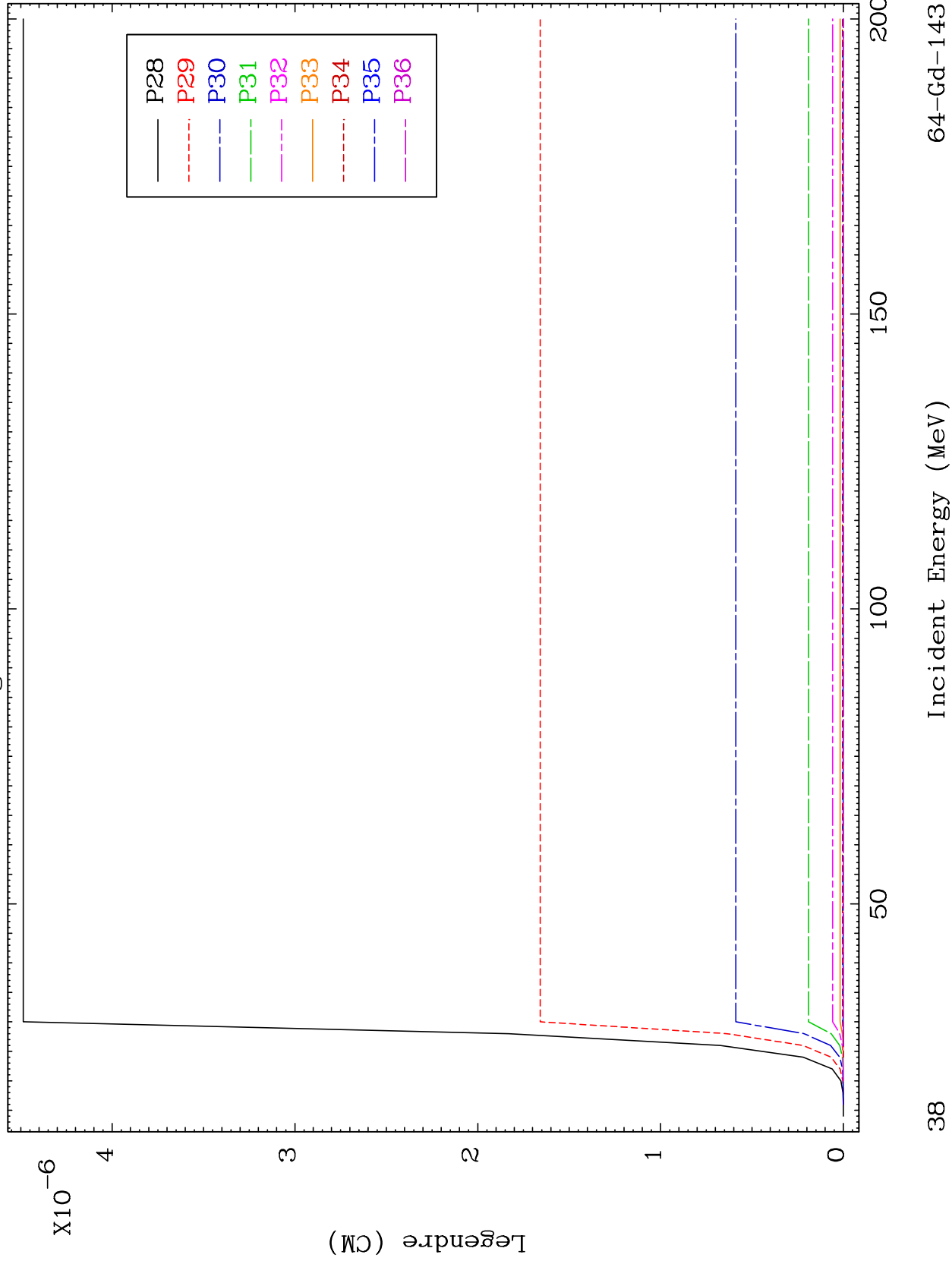
Incident Energy (MeV)

64-Gd-143

MAT 6398

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

64-Gd-143



38

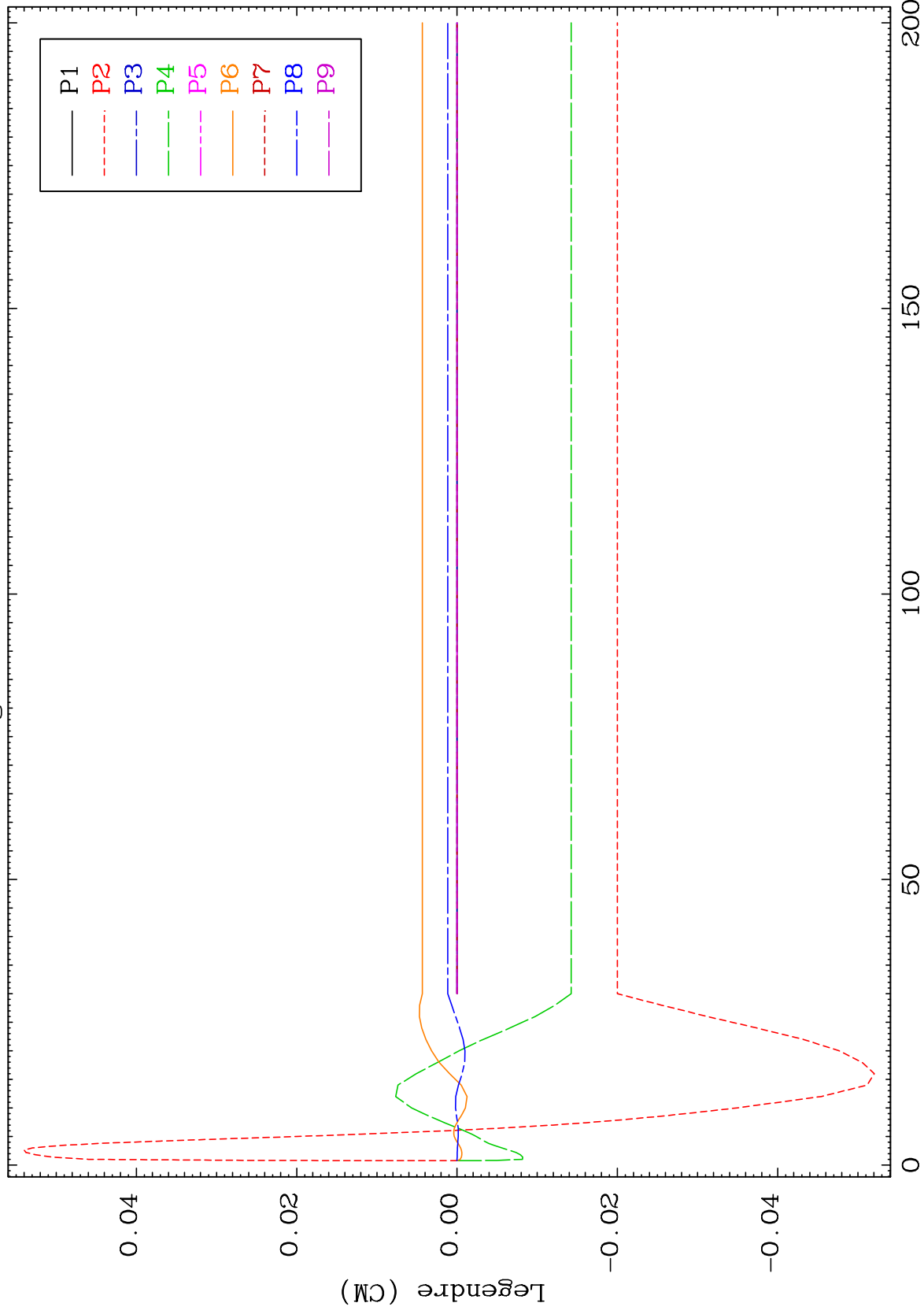
Incident Energy (MeV)

64-Gd-143

MAT 6398

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

64-Gd-143



39

Incident Energy (MeV)

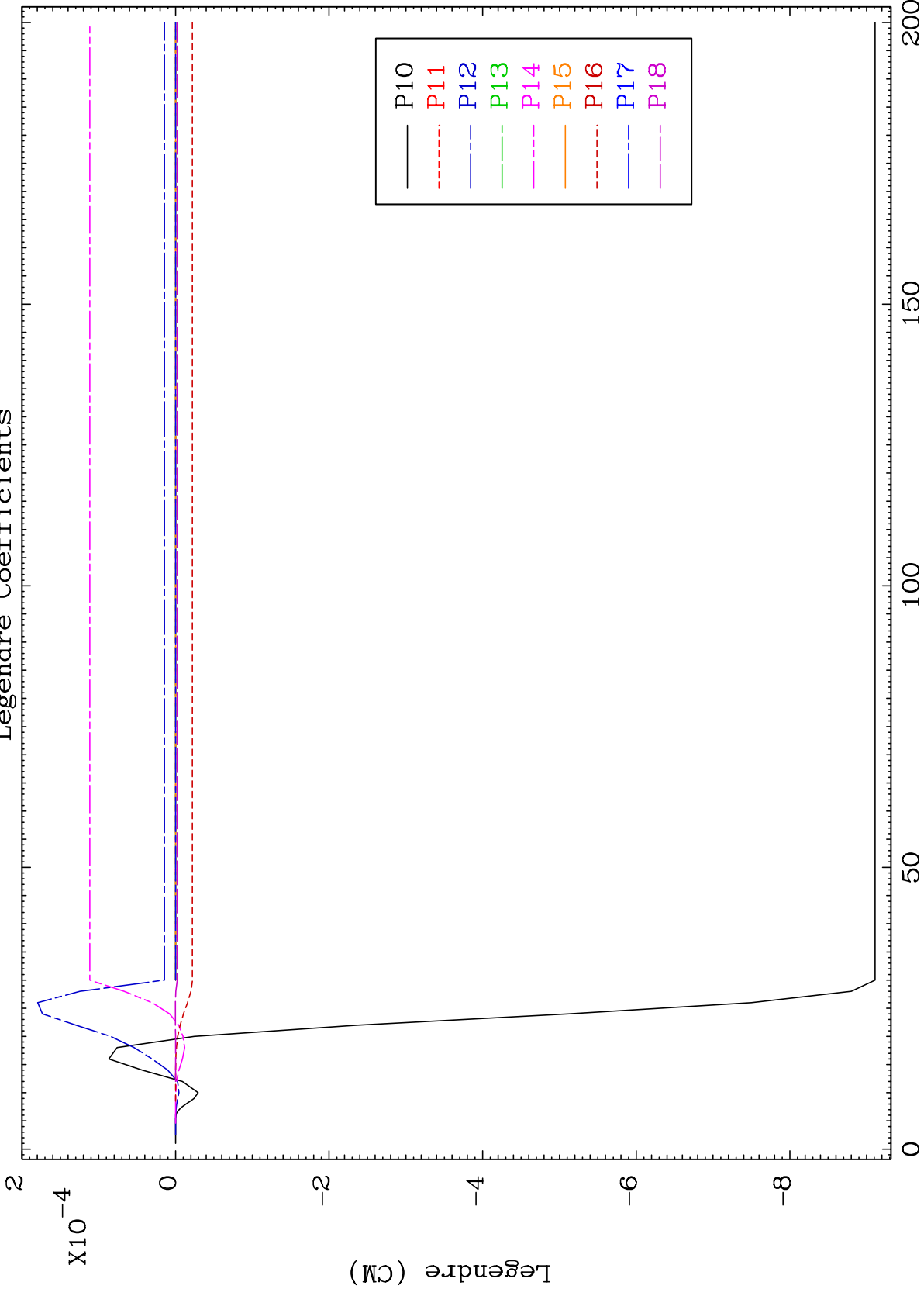
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MAT 6398

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

64-Gd-143



64-Gd-143

Incident Energy (MeV)

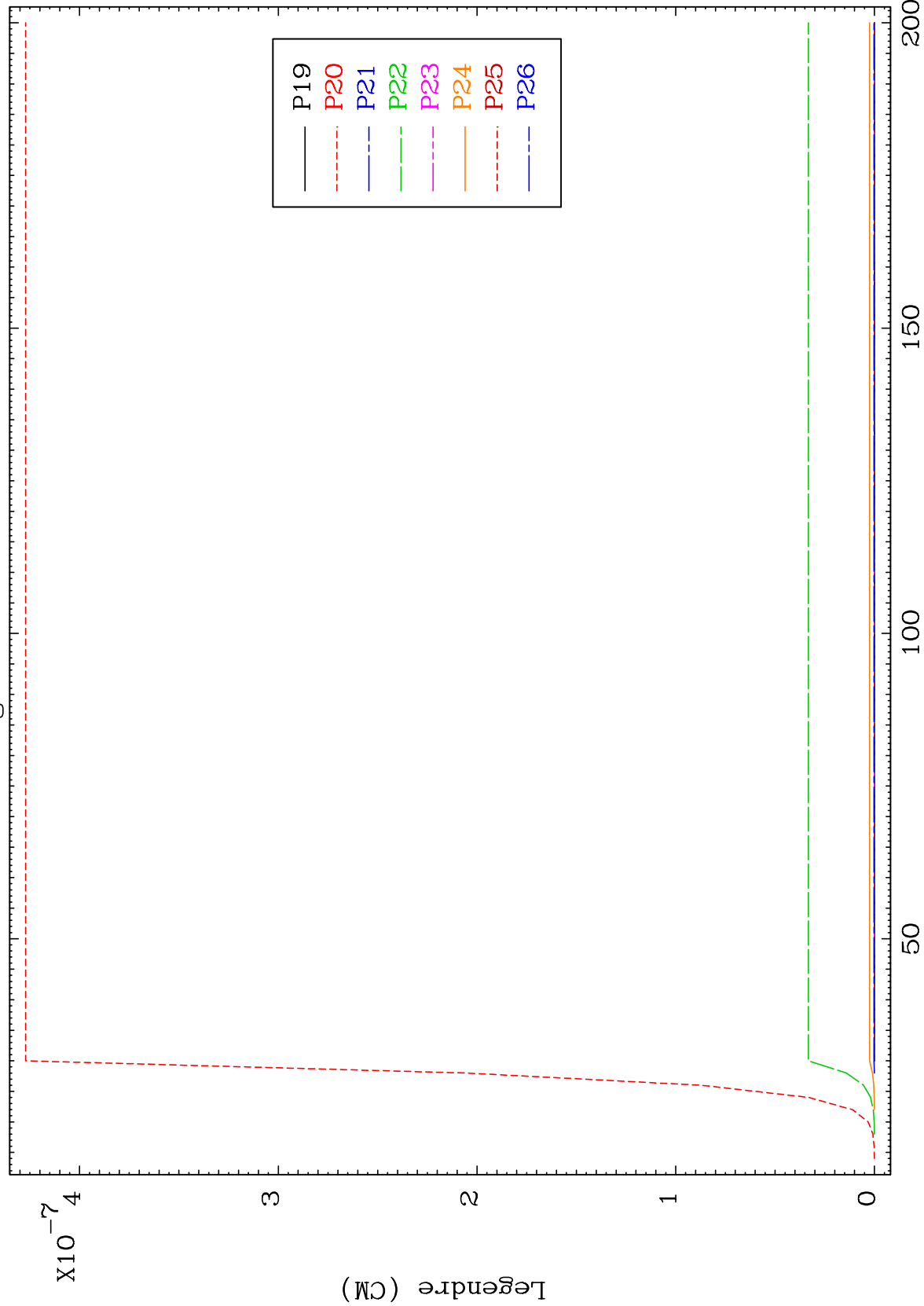
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200

MAT 6398

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

64-Gd-143



41

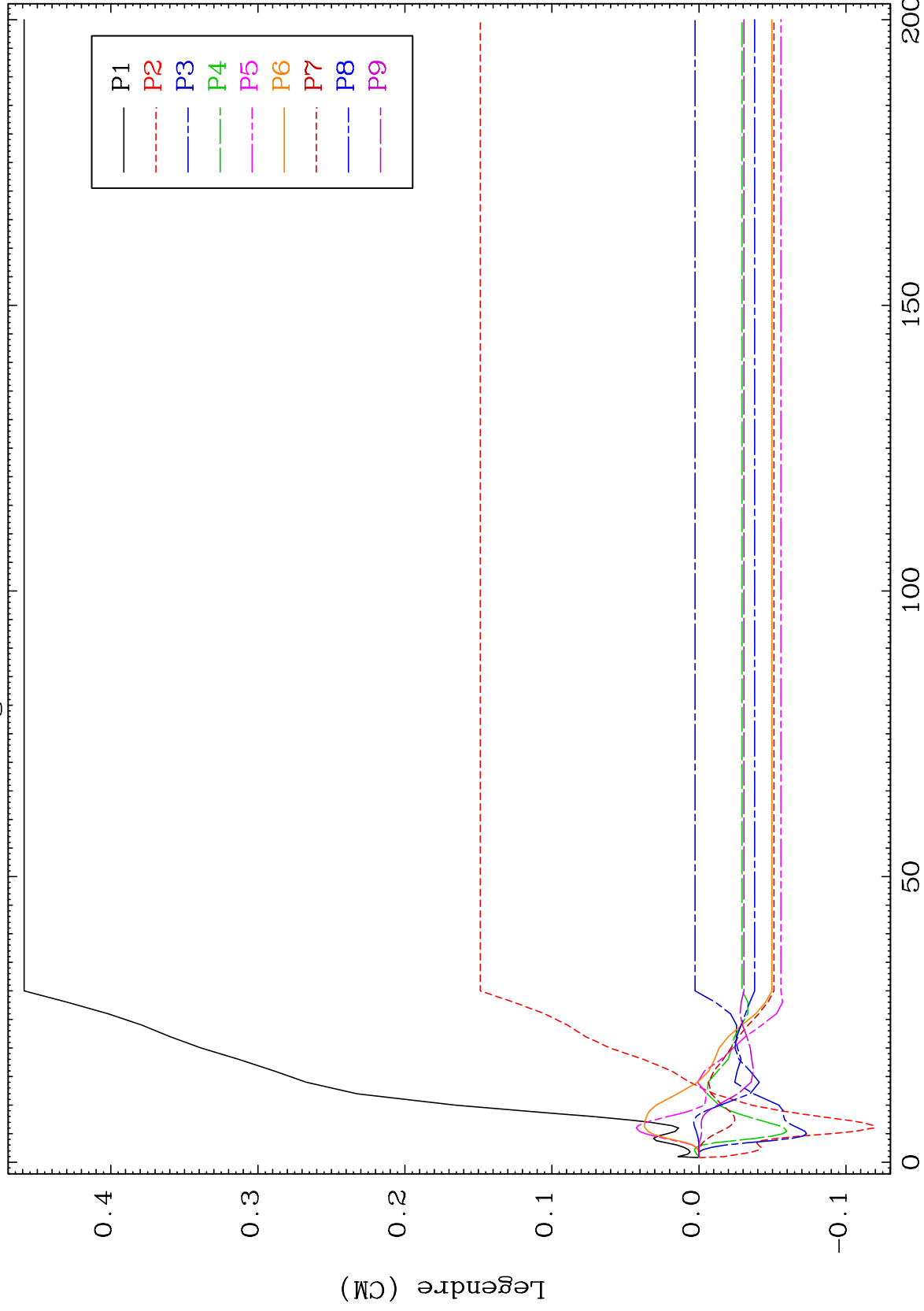
Incident Energy (MeV)

64-Gd-143

MAT 6398

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

64-Gd-143



42

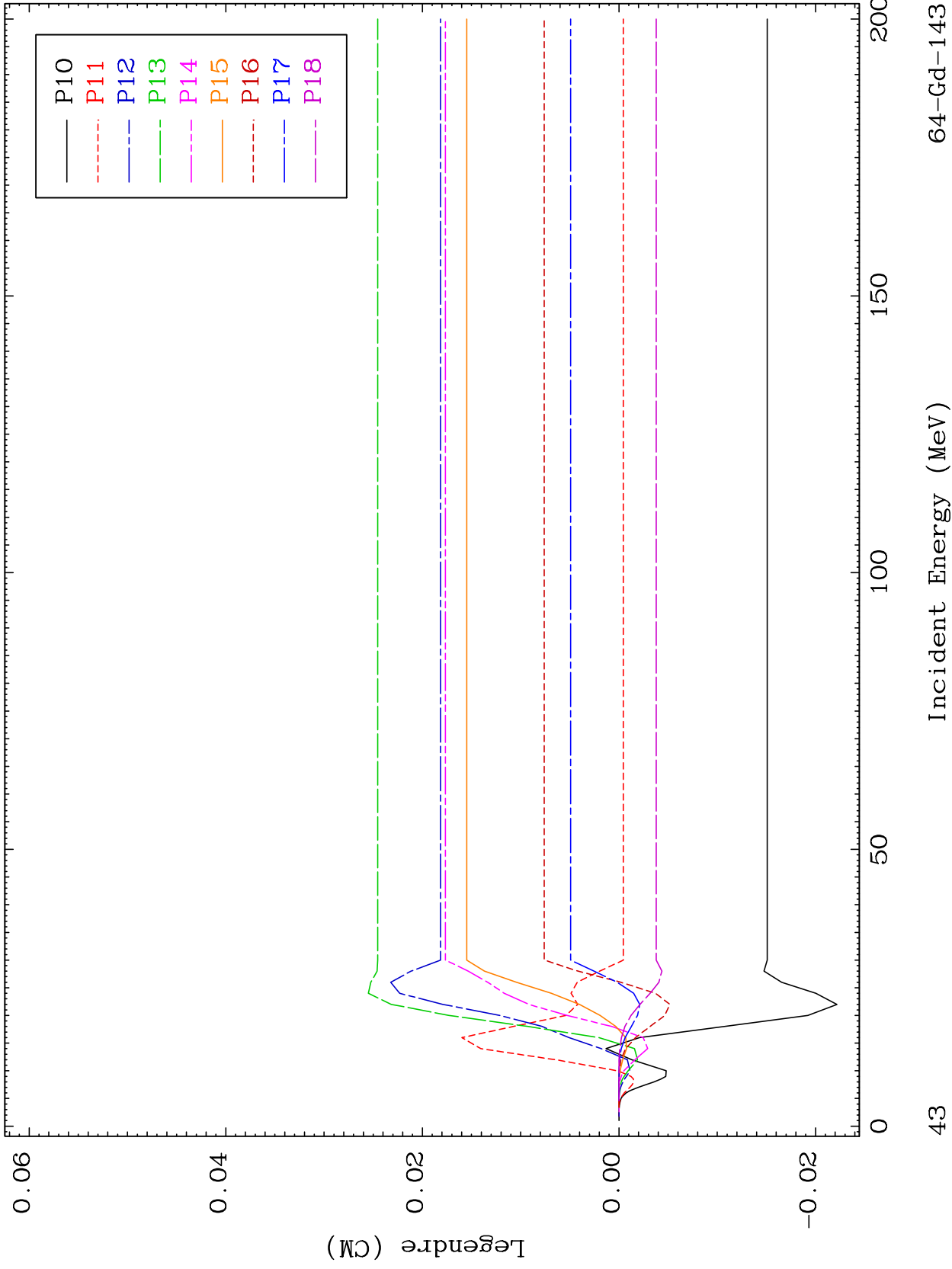
Incident Energy (MeV)

64-Gd-143

MAT 6398

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

64-Gd-143



64-Gd-143

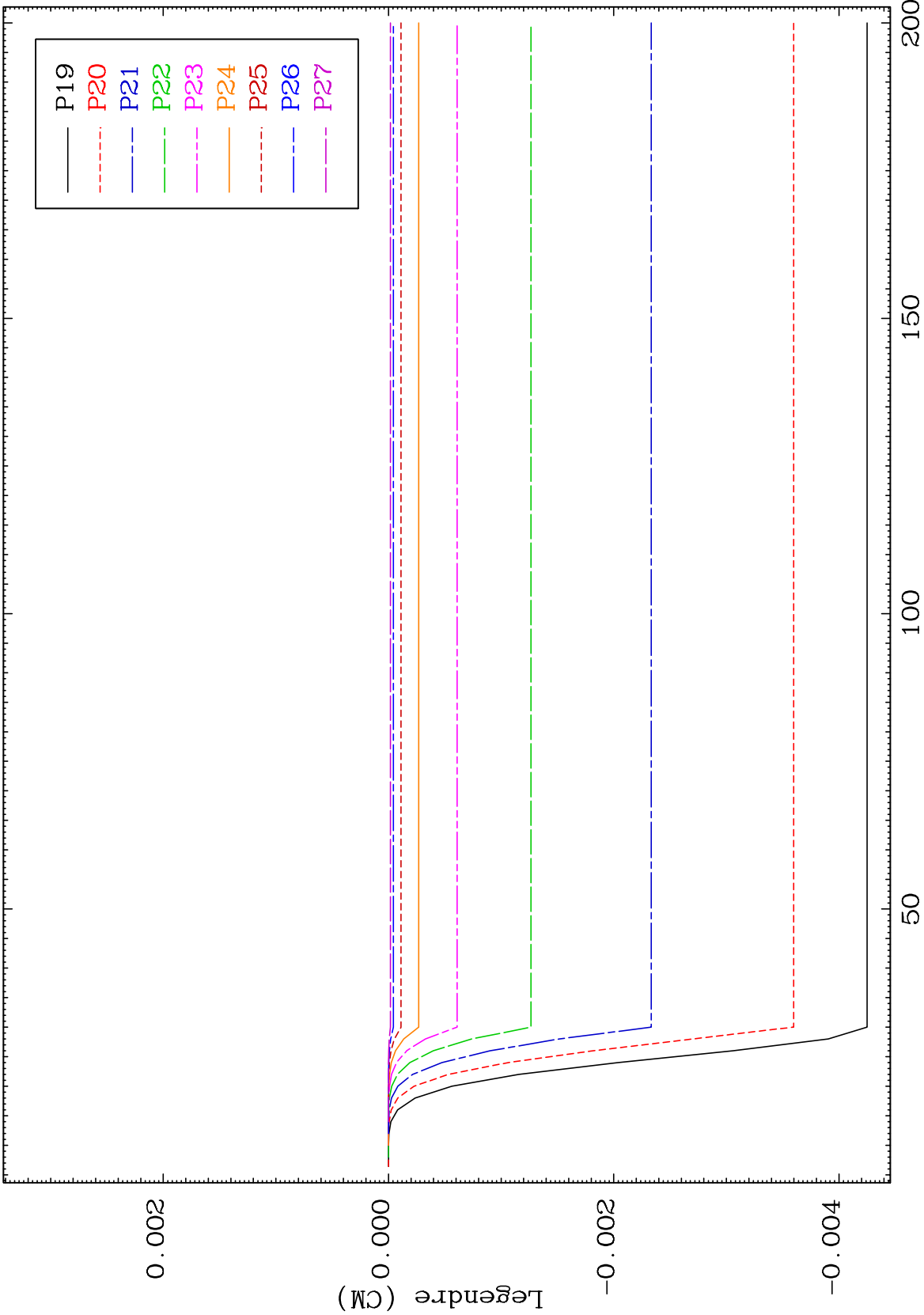
Incident Energy (MeV)

43

MAT 6398

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

64-Gd-143



44

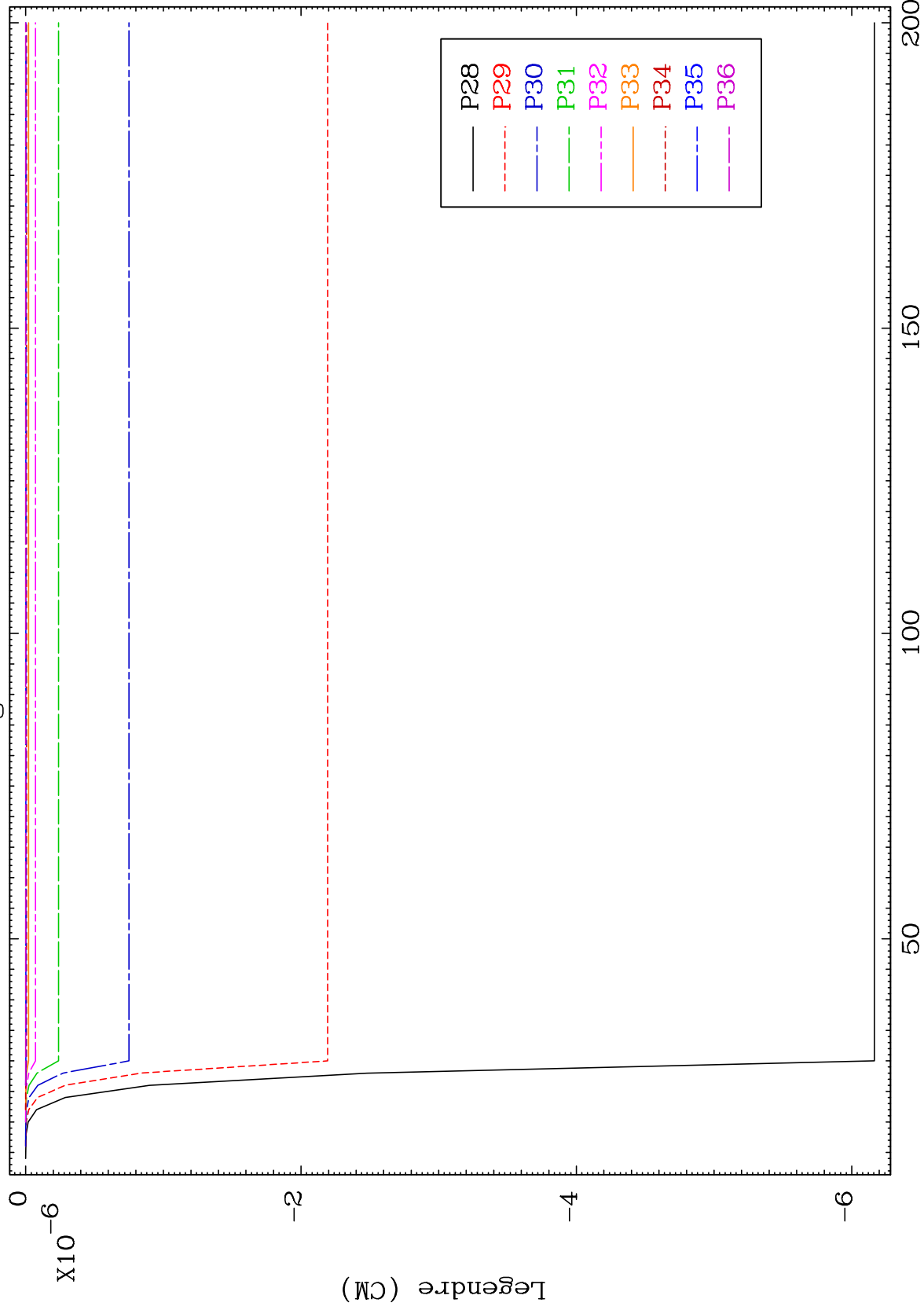
Incident Energy (MeV)

64-Gd-143

MAT 6398

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

64-Gd-143



45

Incident Energy (MeV)

50

100

150

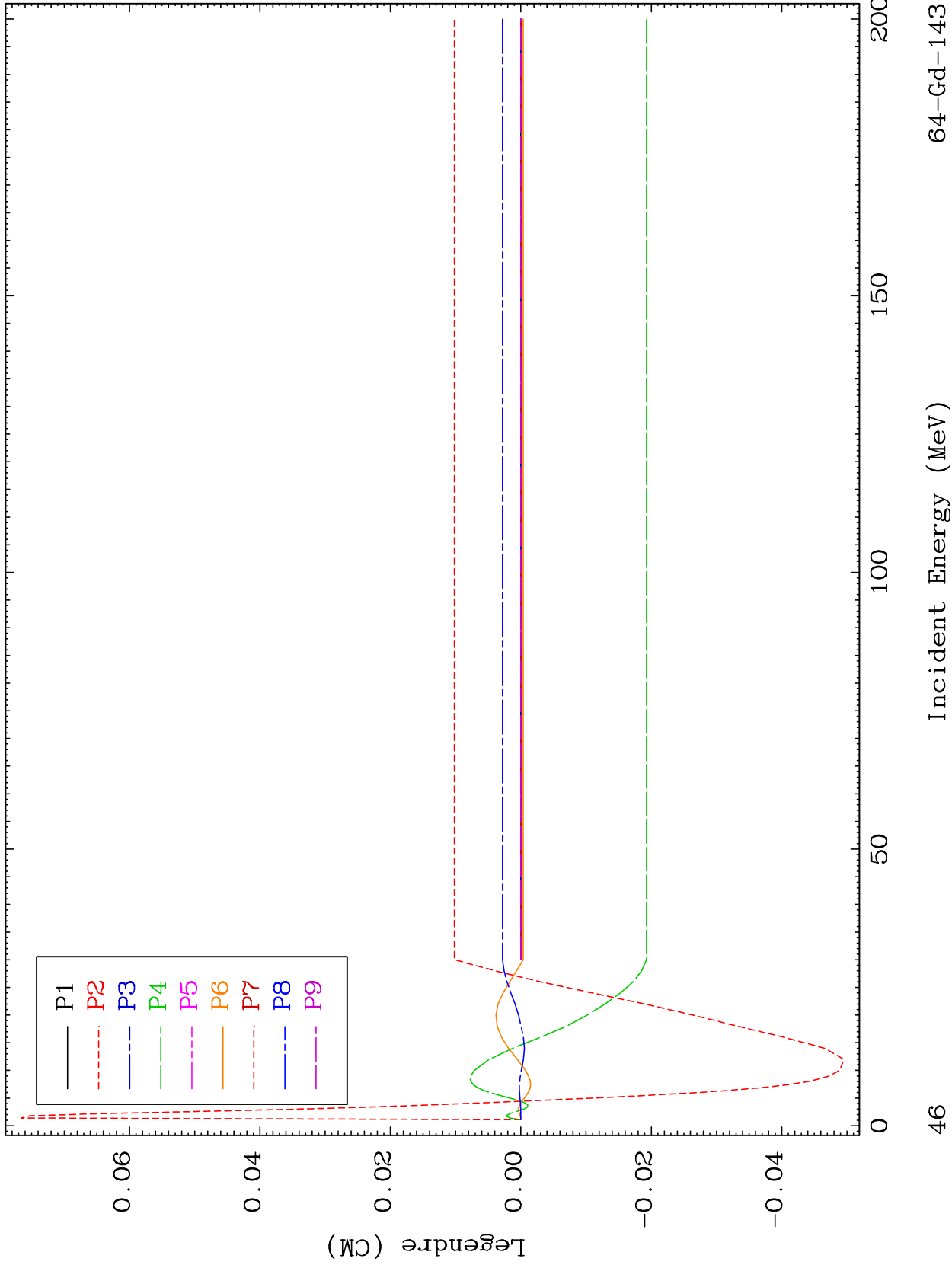
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64-Gd-143

MAT 6398

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

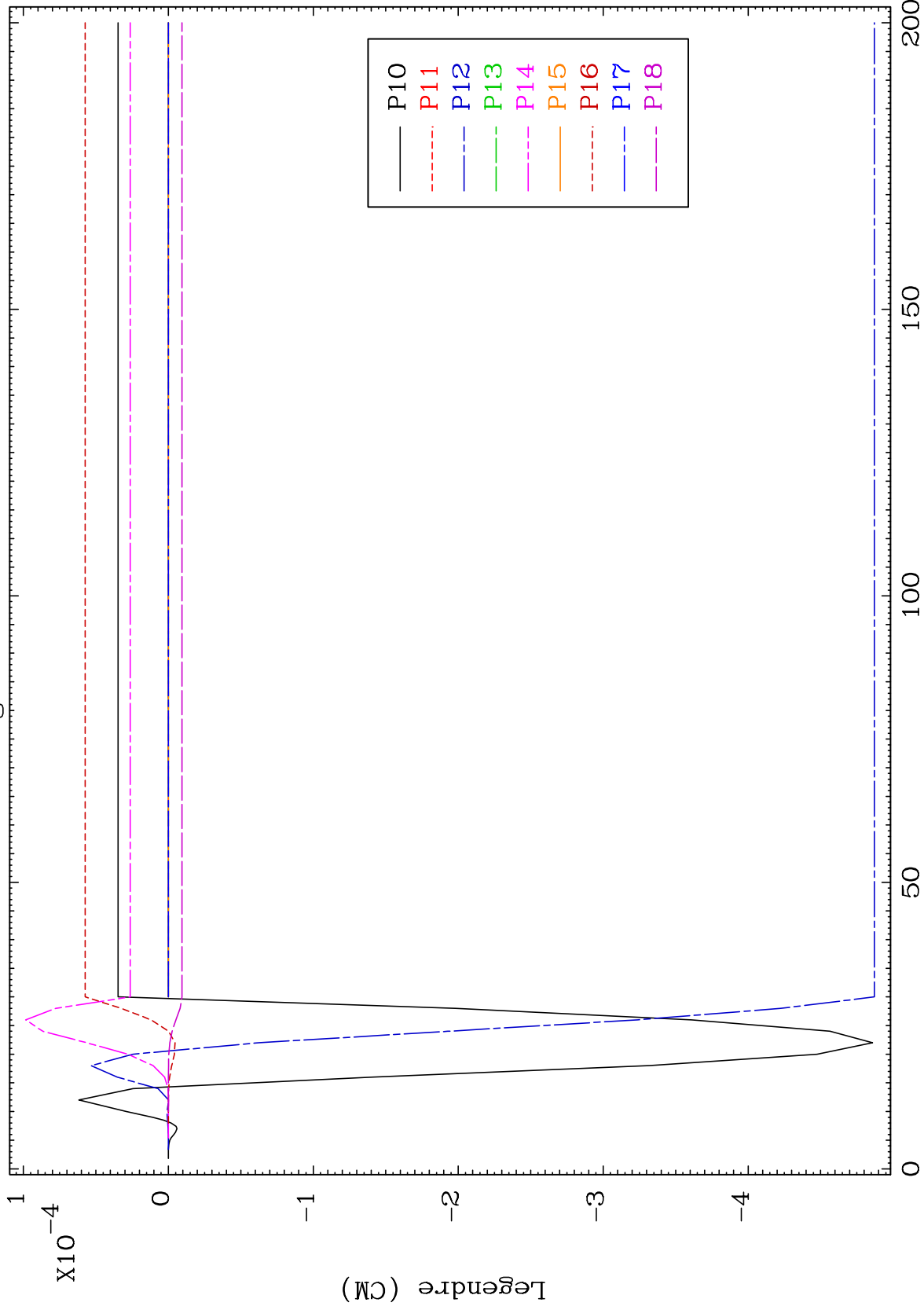
64-Gd-143



MAT 6398

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

64-Gd-143



47

Incident Energy (MeV)

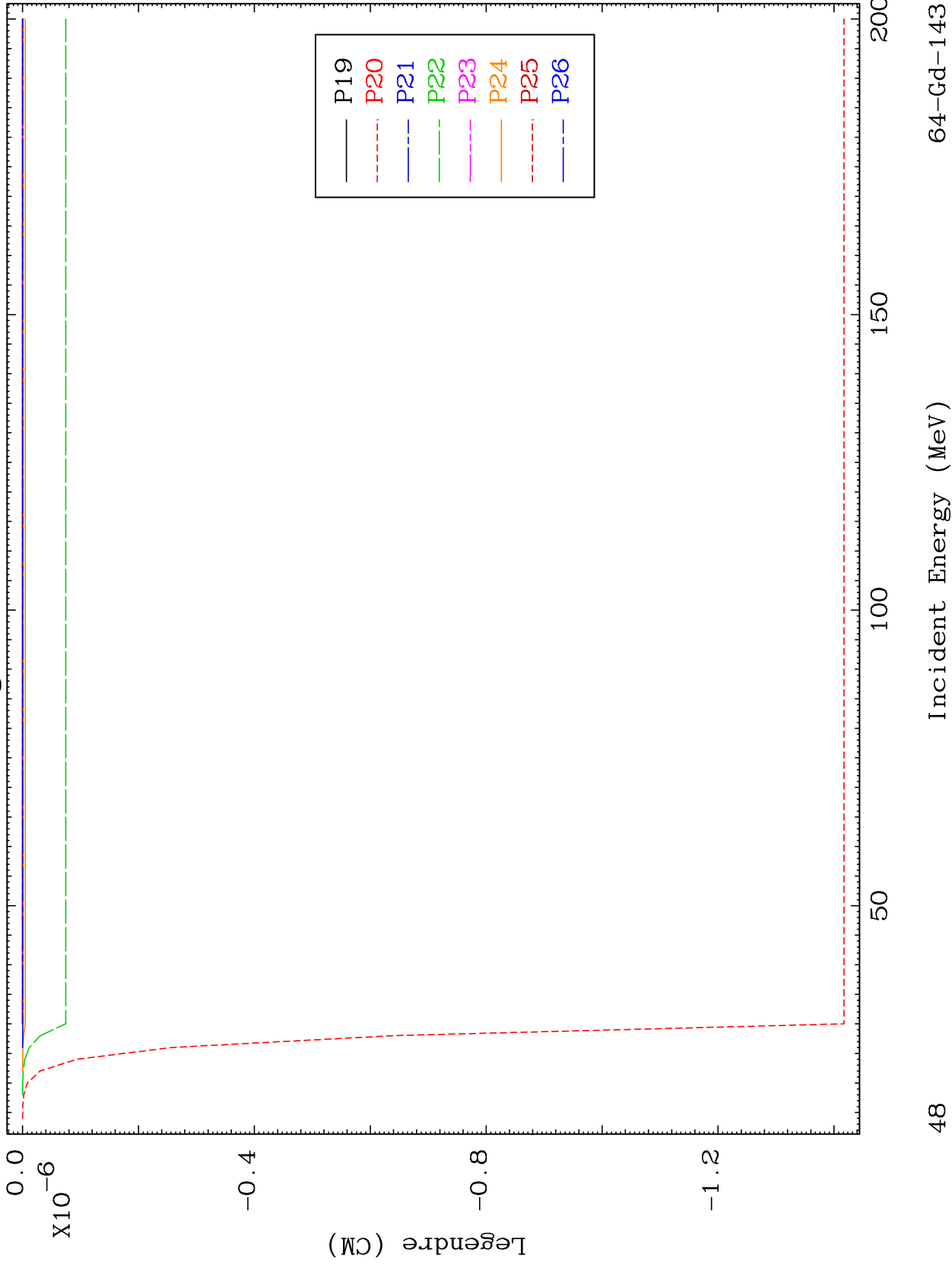
64-Gd-143



MAT 6398

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

64-Gd-143



48

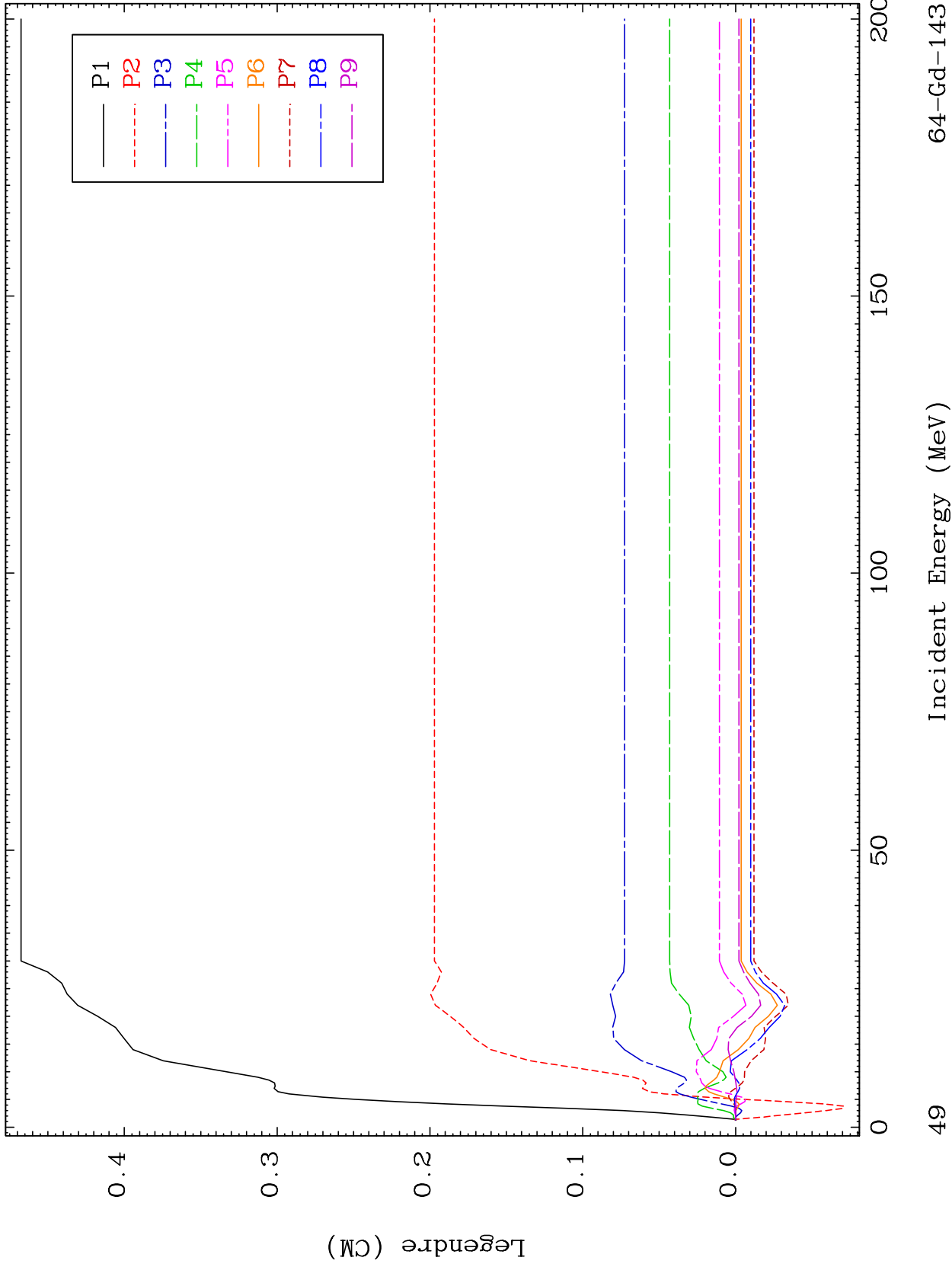
Incident Energy (MeV)

64-Gd-143

MAT 6398

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

64-Gd-143



64-Gd-143

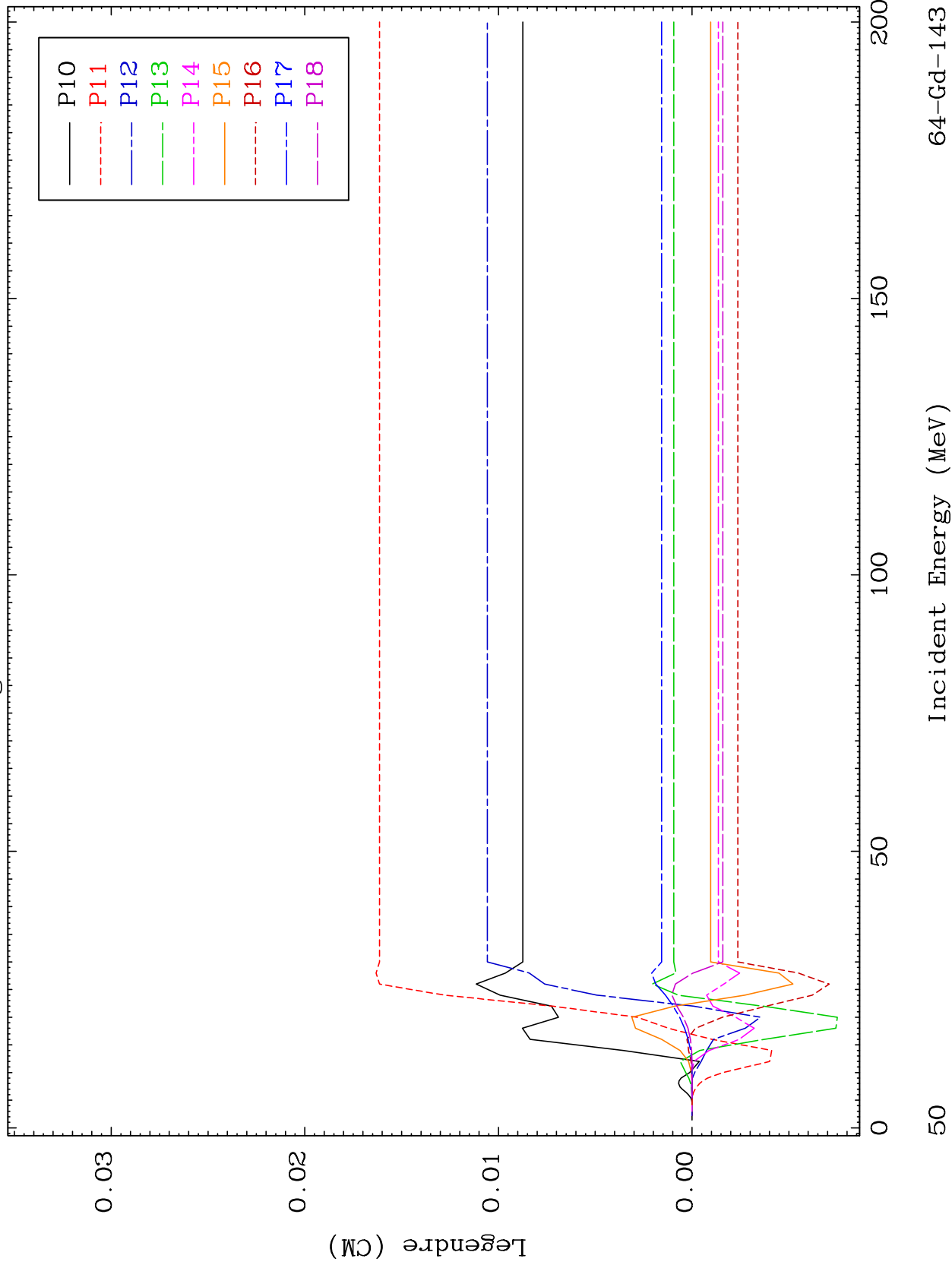
Incident Energy (MeV)

49

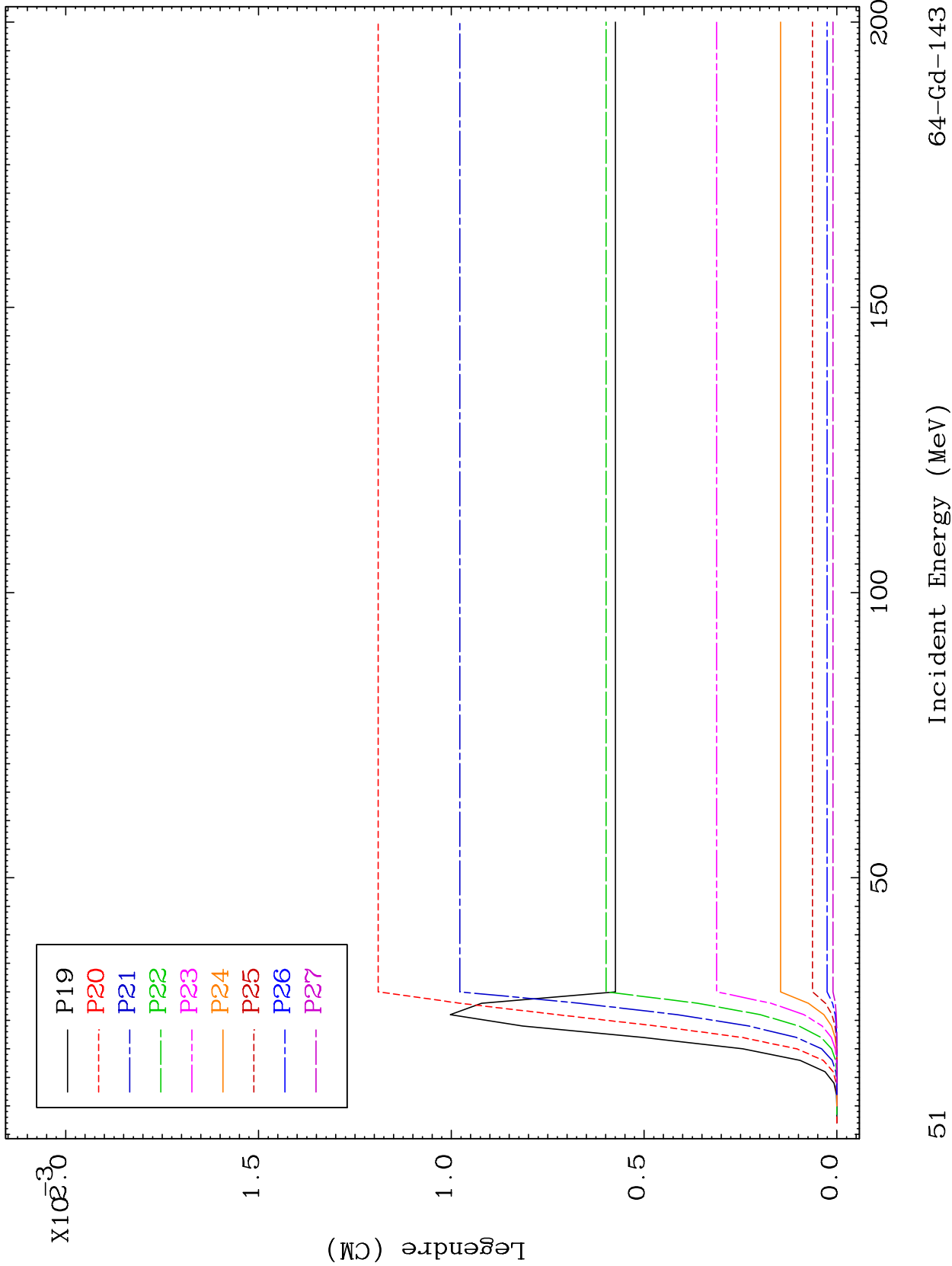
MAT 6398

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

64-Gd-143



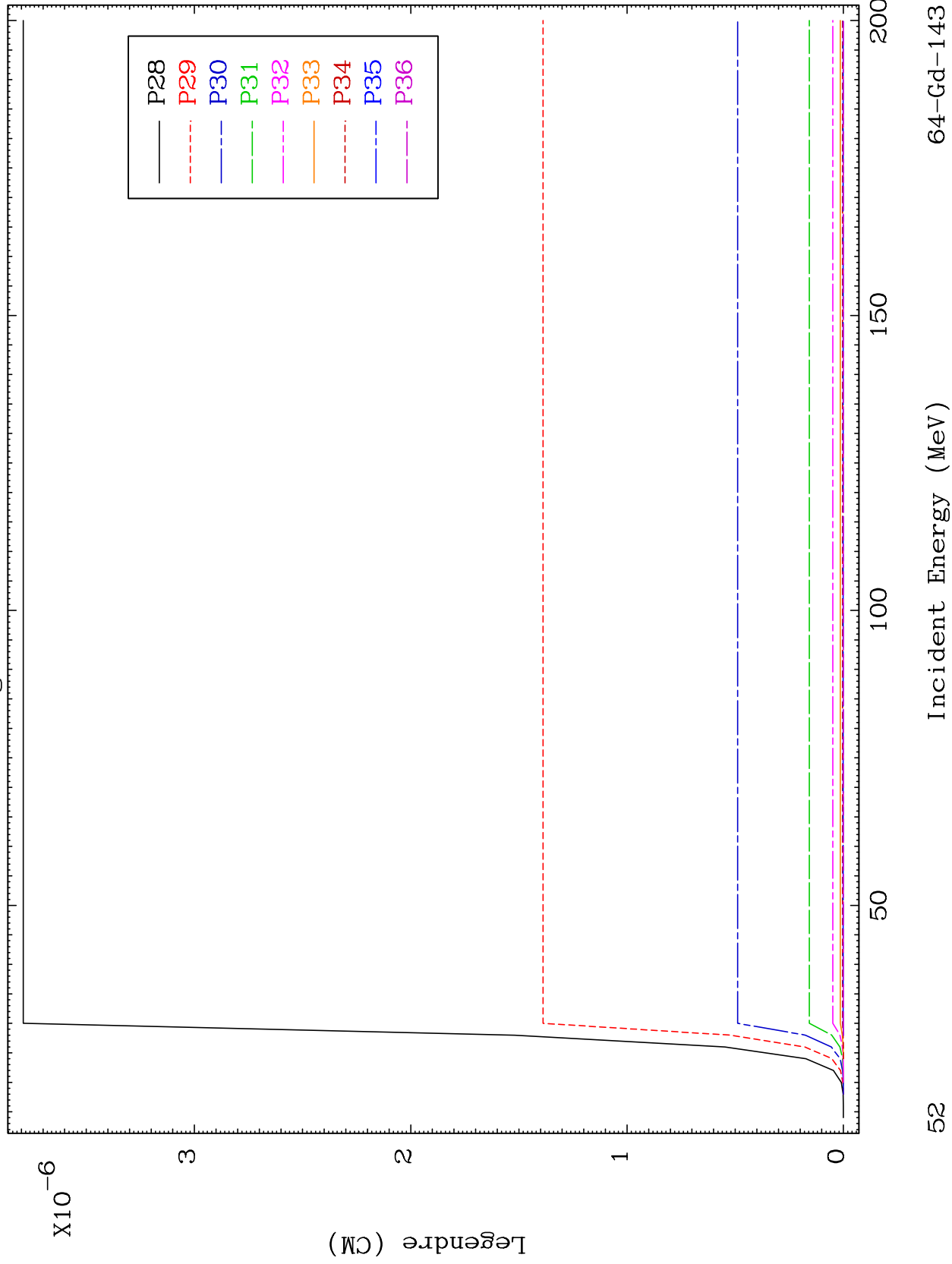
64-Gd-143



MAT 6398

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

64-Gd-143



64-Gd-143

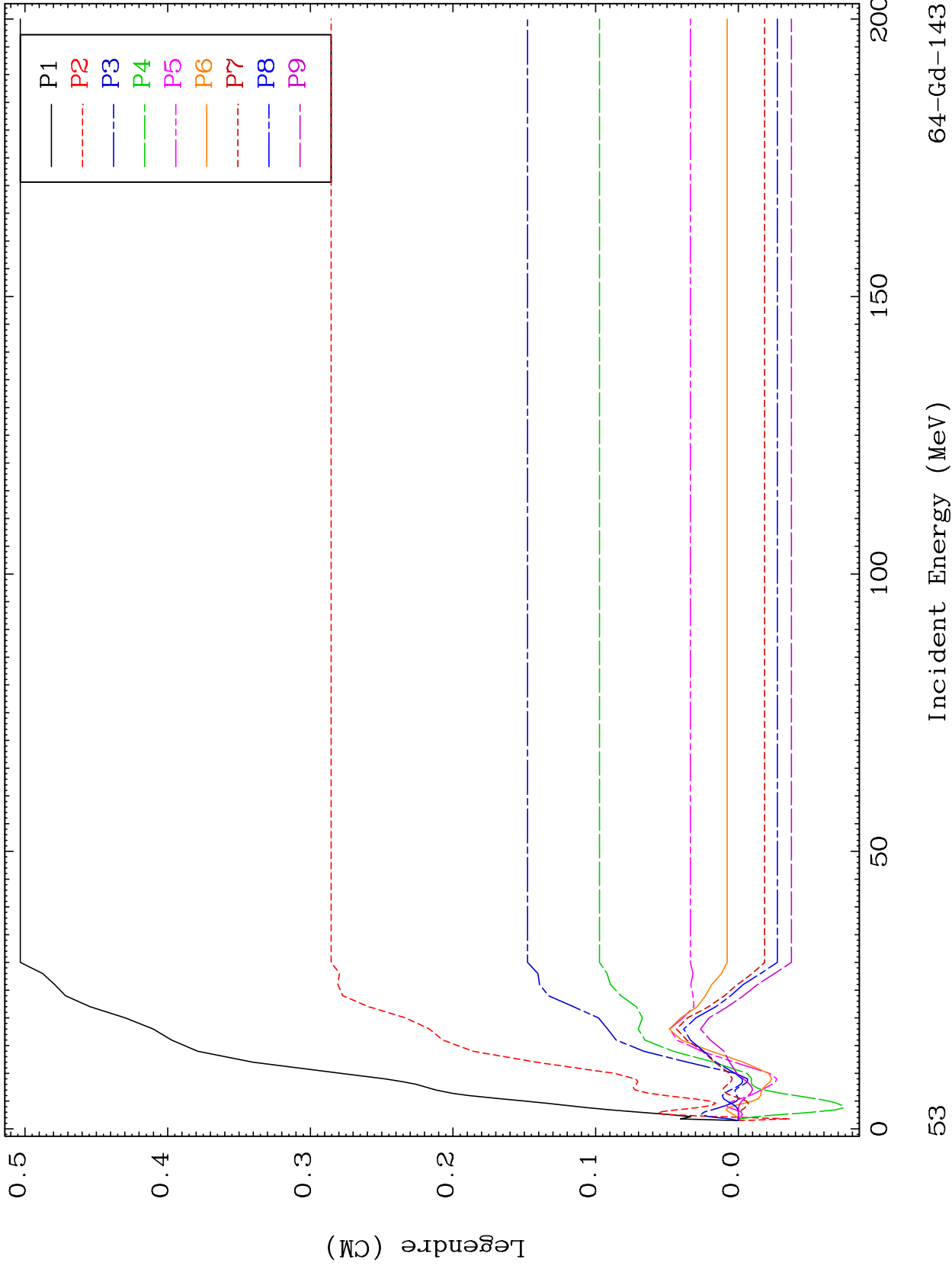
Incident Energy (MeV)

52

MAT 6398

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

64-Gd-143



64-Gd-143

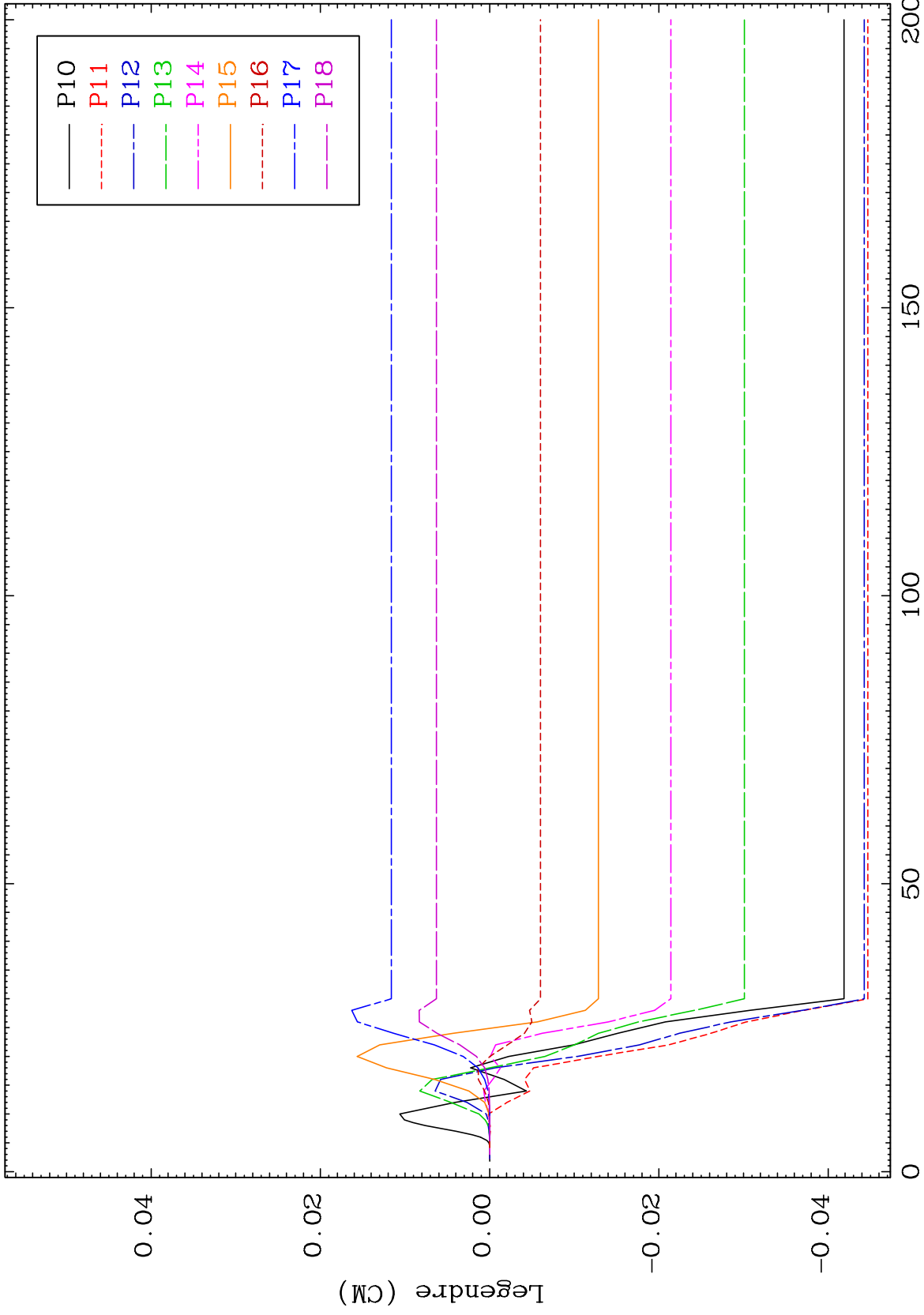
Incident Energy (MeV)

53

MAT 6398

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

64-Gd-143



54

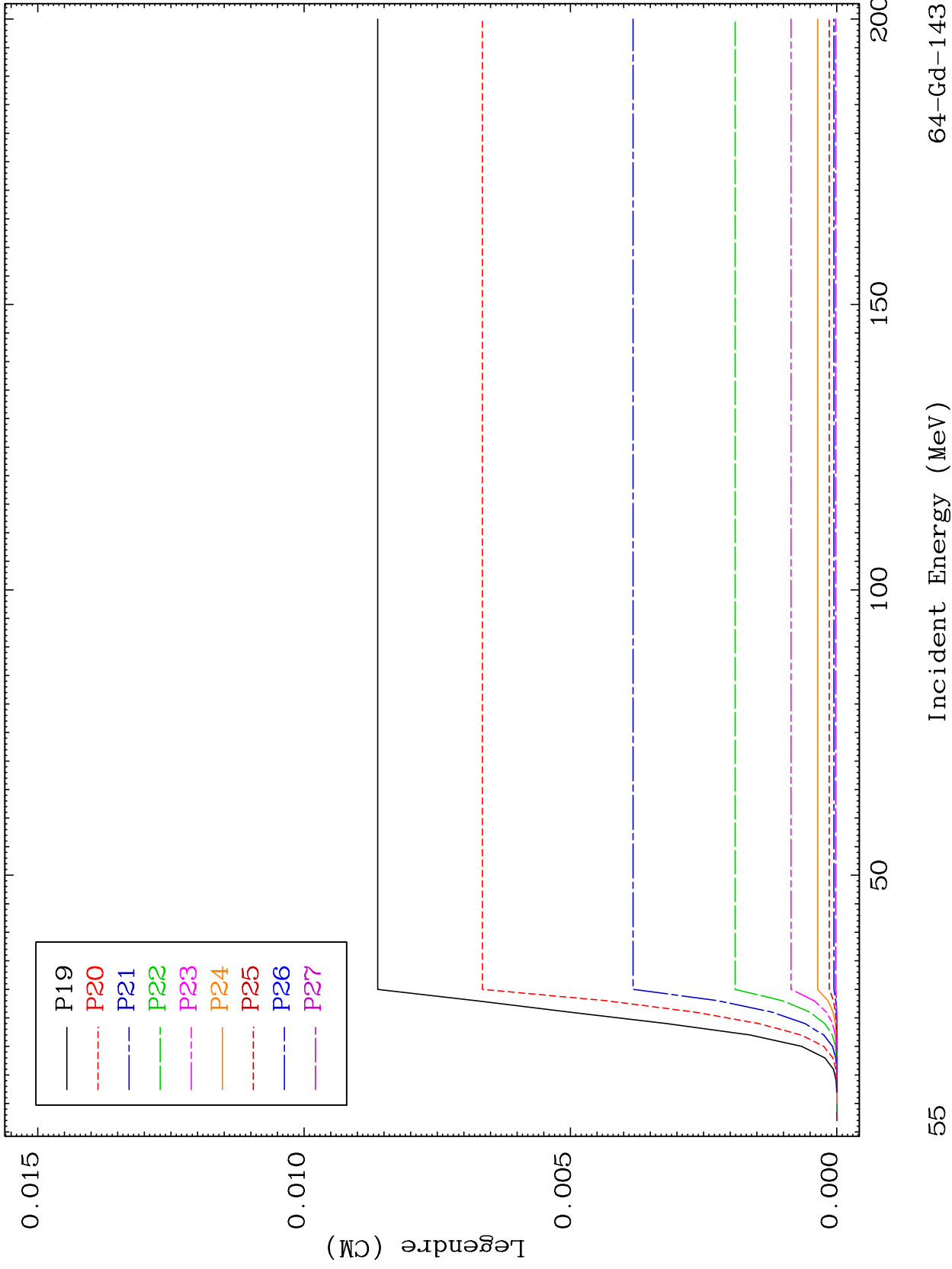
Incident Energy (MeV)

64-Gd-143

MAT 6398

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

64-Gd-143



55

Incident Energy (MeV)

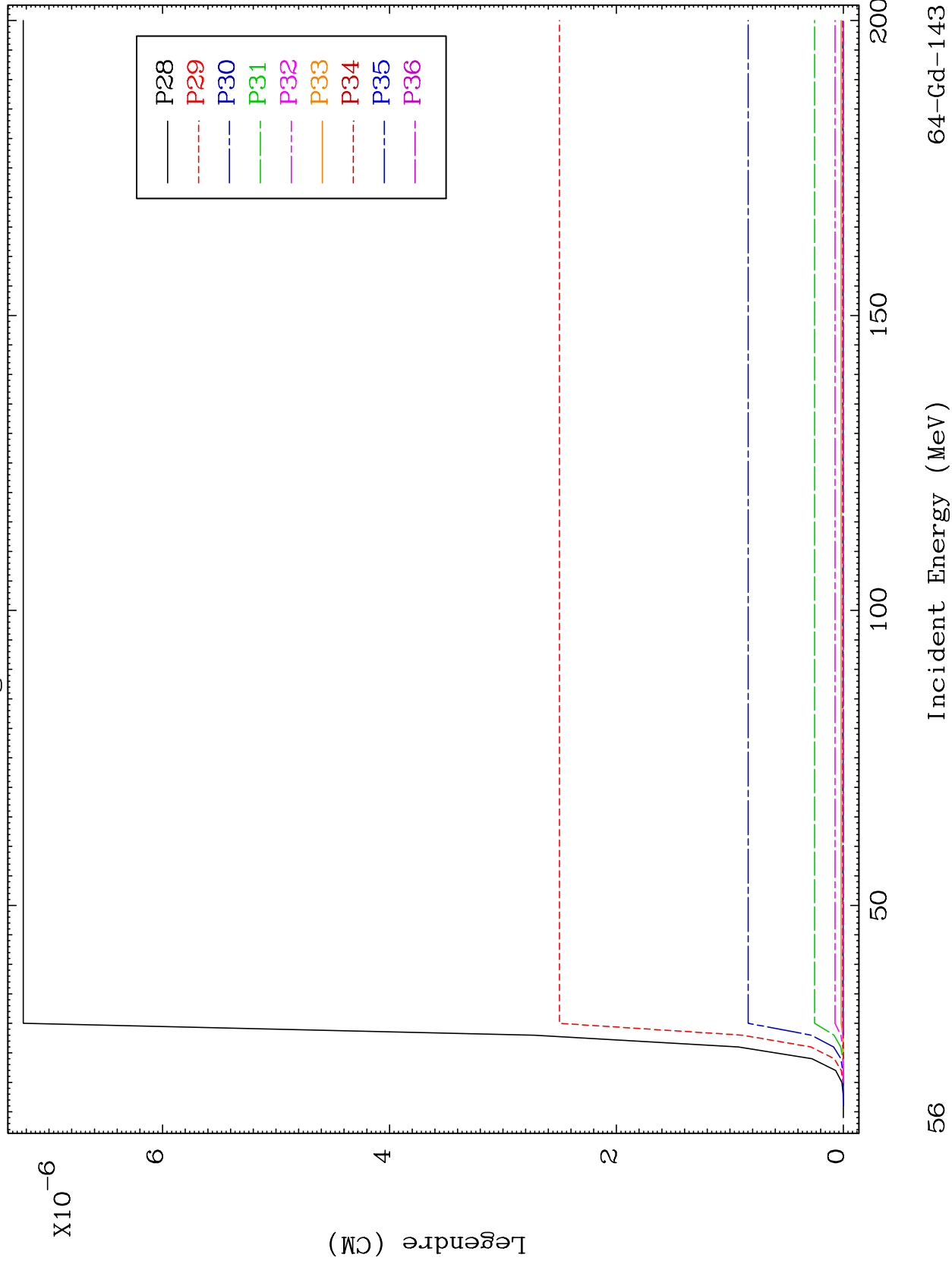
64-Gd-143



MAT 6398

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

64-Gd-143



56

Incident Energy (MeV)

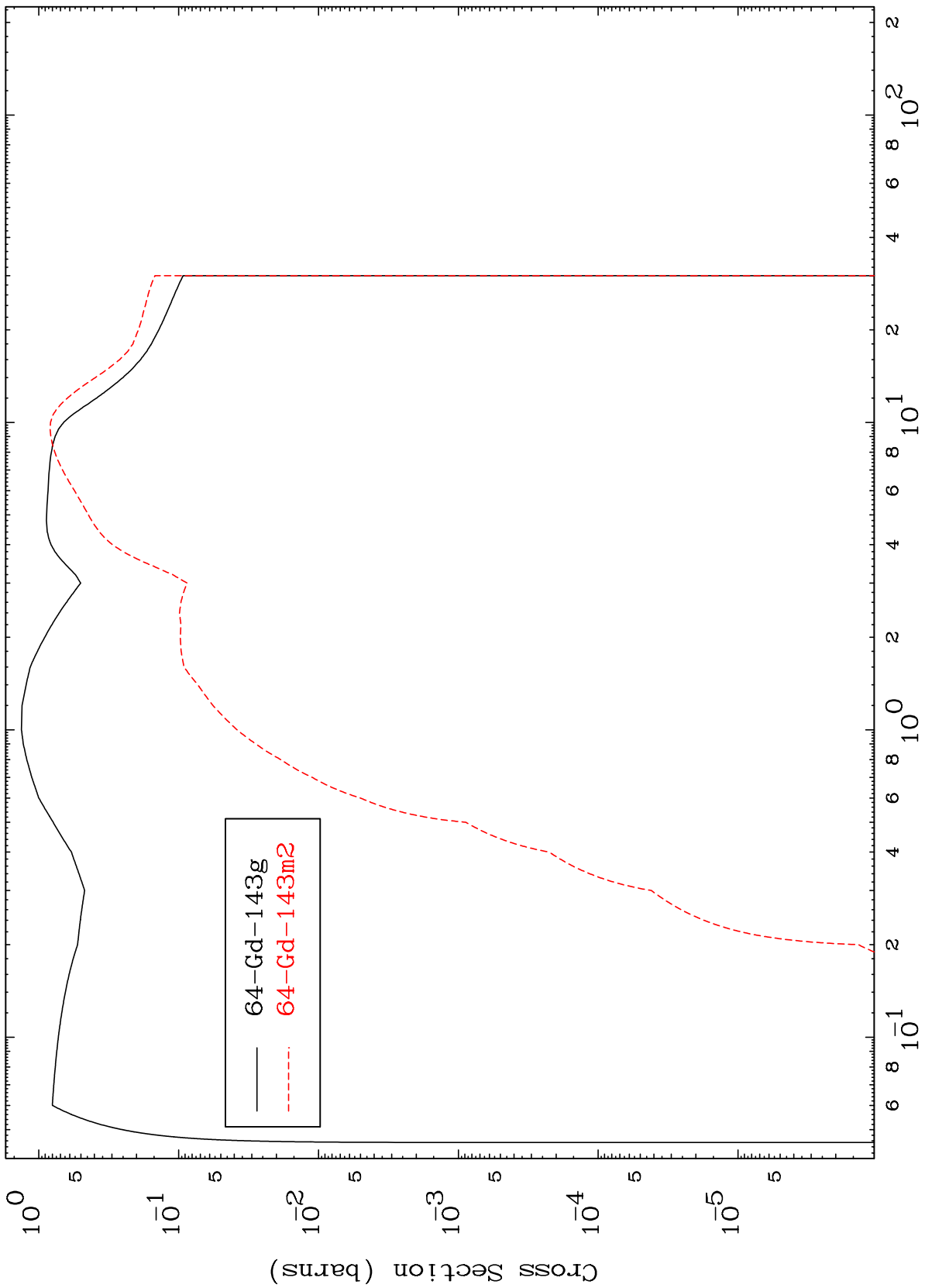
64-Gd-143

200

MAT 6398

64-Gd-143

Inelastic  
Radionuclide Production Cross Section

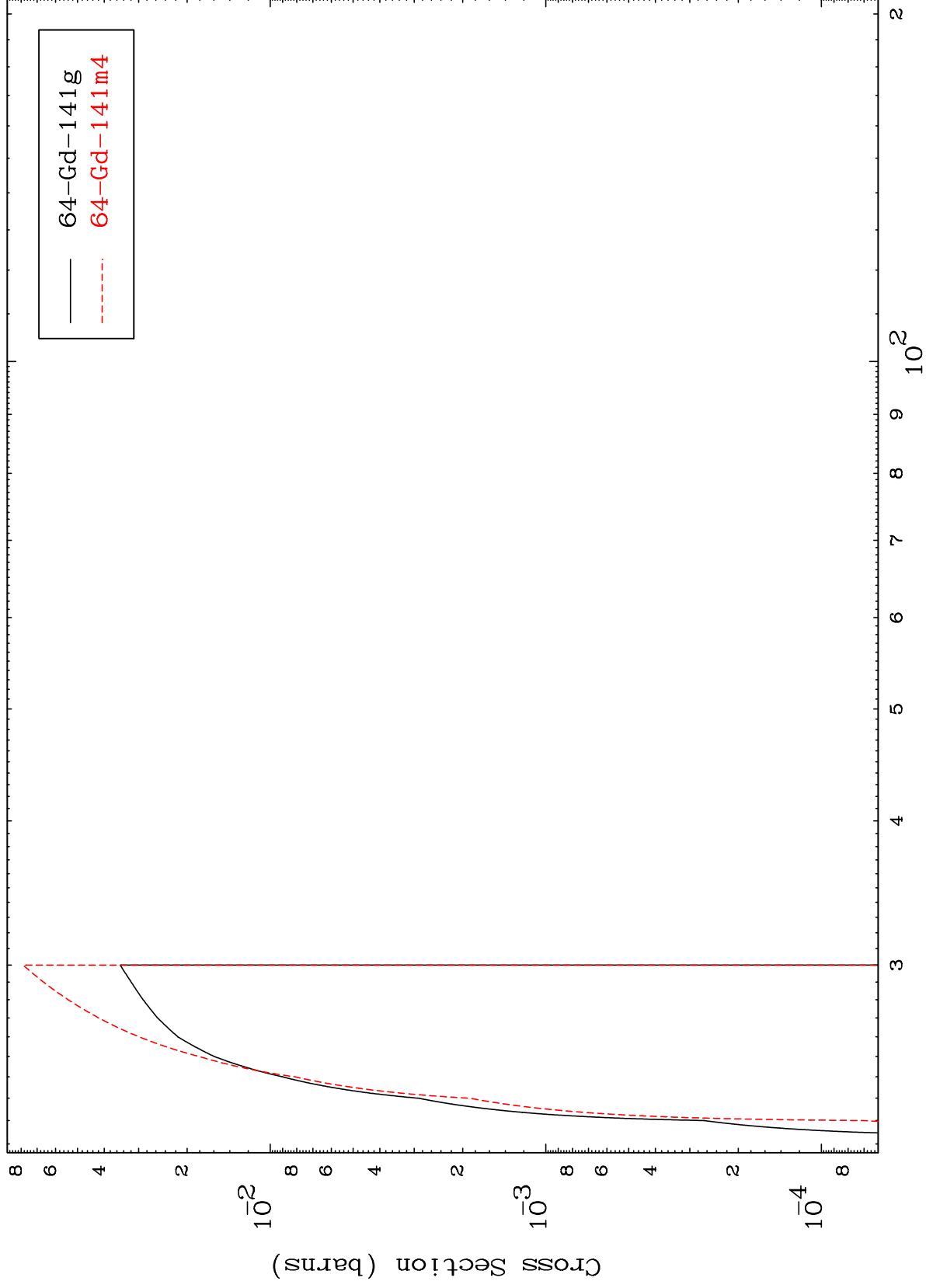


MAT 6398

(n,3n)

64-Gd-143

Radionuclide Production Cross Section



58

Incident Energy (MeV)

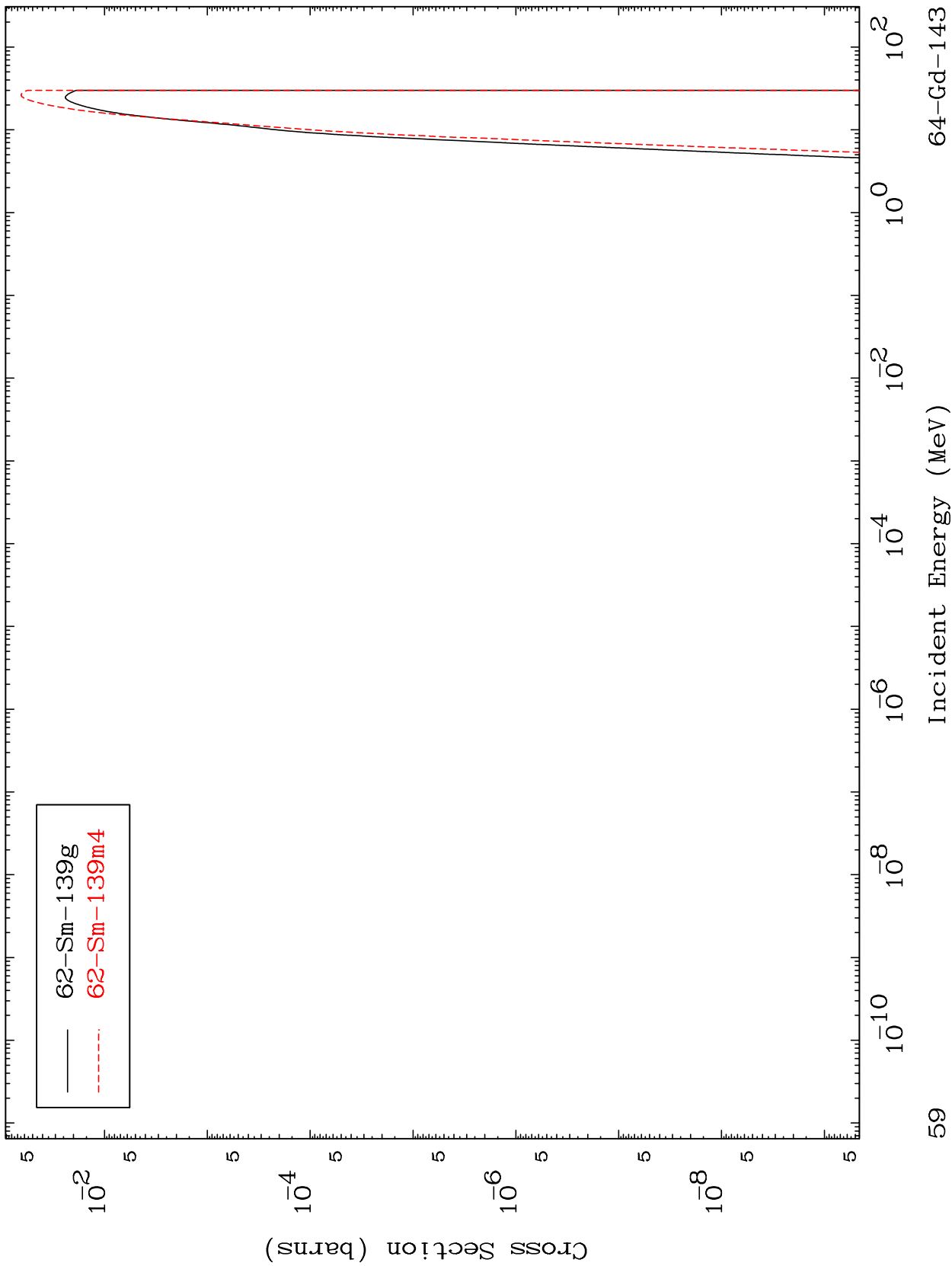
64-Gd-143

MAT 6398

$(n, n')$   $\alpha$

64-Gd-143

Radionuclide Production Cross Section

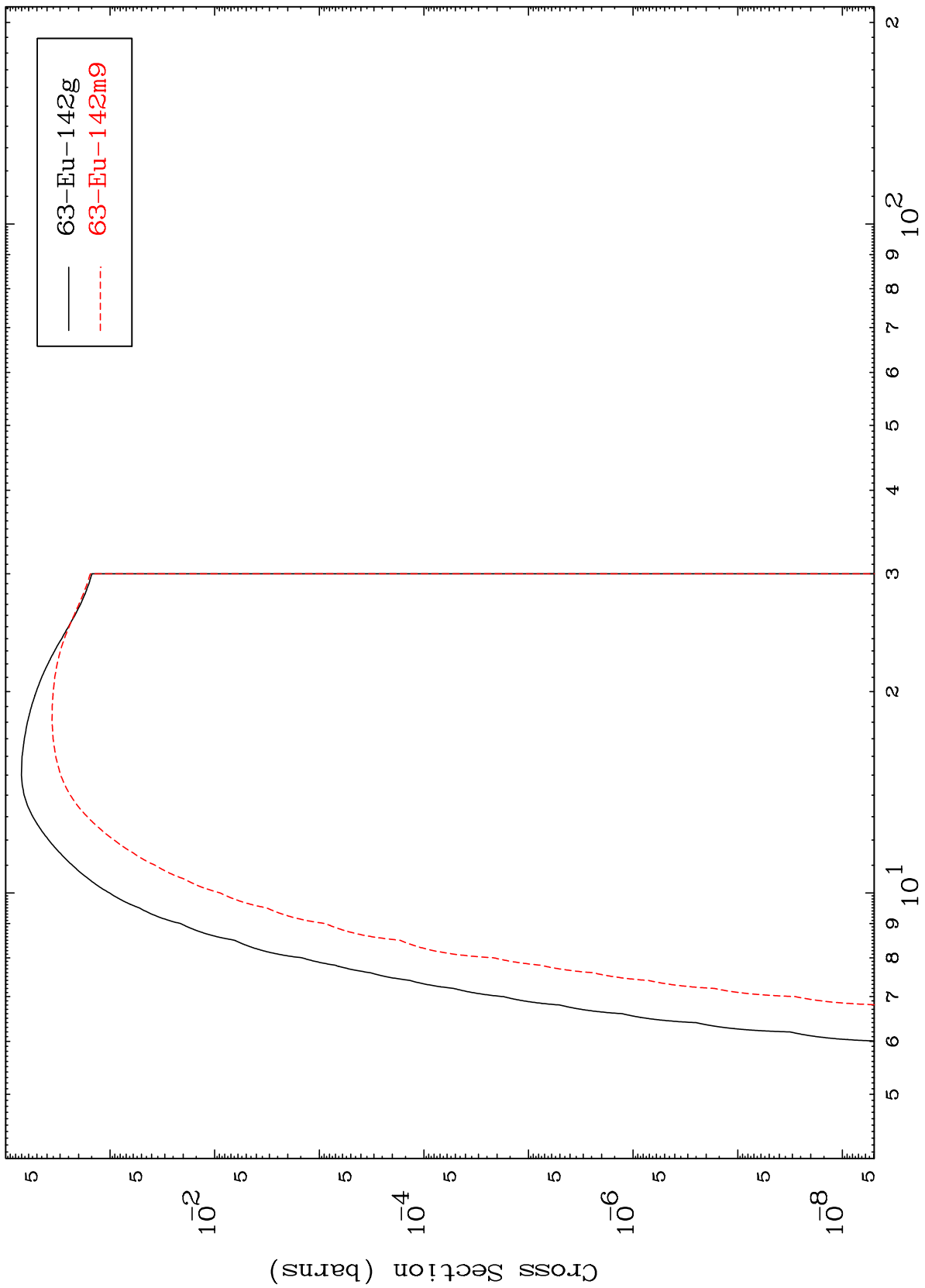


62-Sm-139g  
62-Sm-139m4

MAT 6398

64-Gd-143

$(n, n')$  p  
Radionuclide Production Cross Section



60

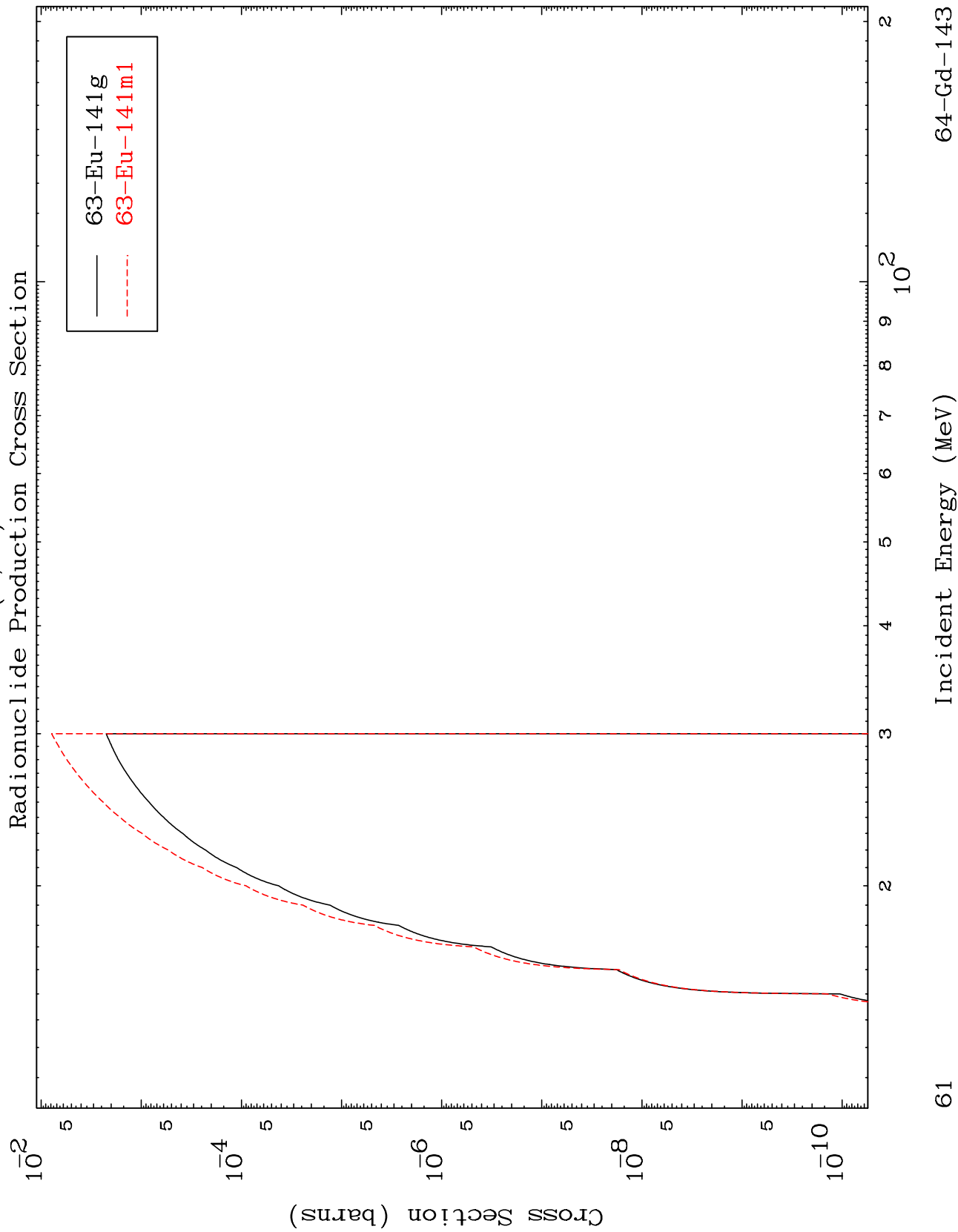
Incident Energy (MeV)

64-Gd-143

MAT 6398

(n,n') d

64-Gd-143



61

Incident Energy (MeV)

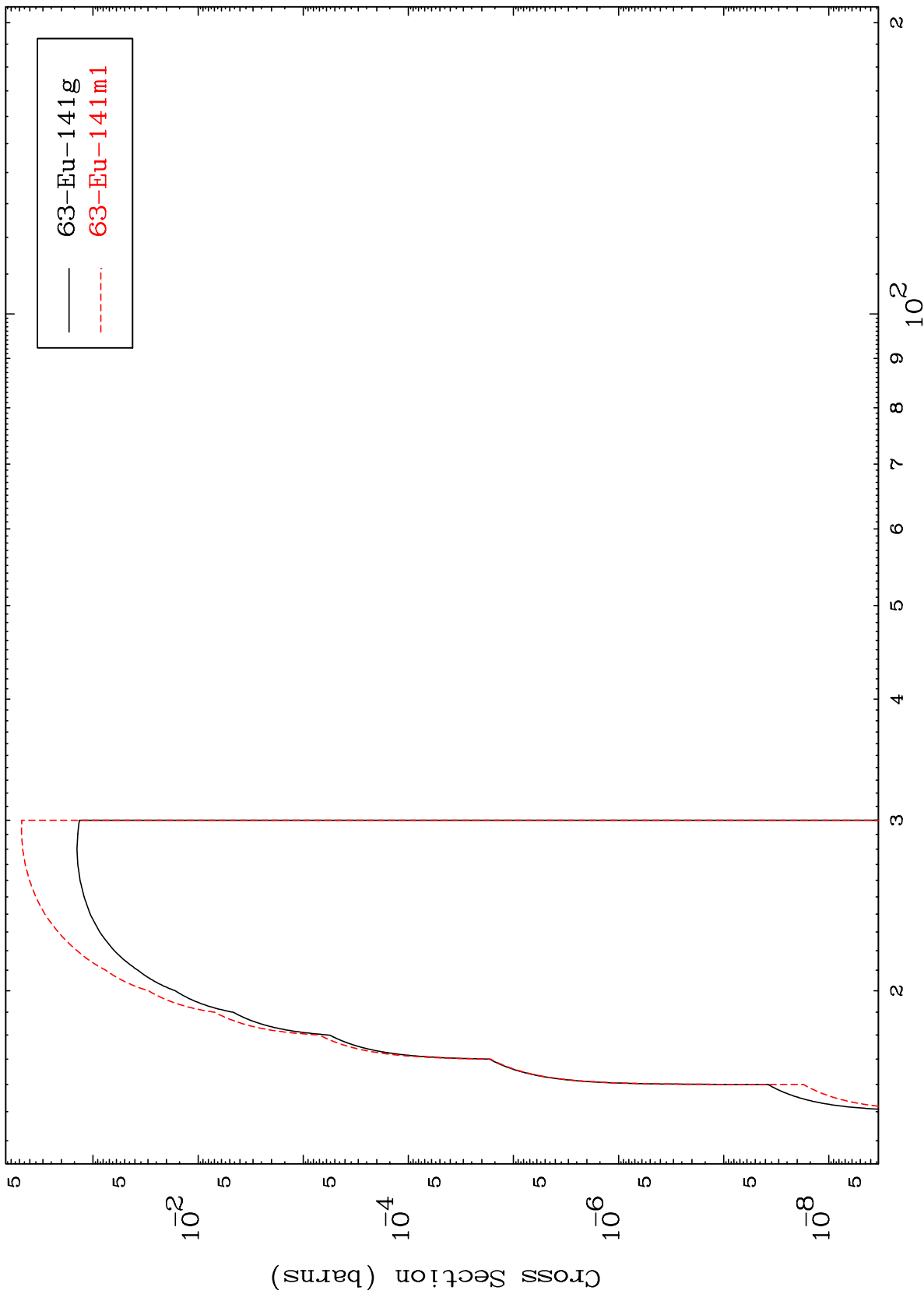
64-Gd-143

MAT 6398

(n,2n) p

64-Gd-143

Radionuclide Production Cross Section



62

Incident Energy (MeV)

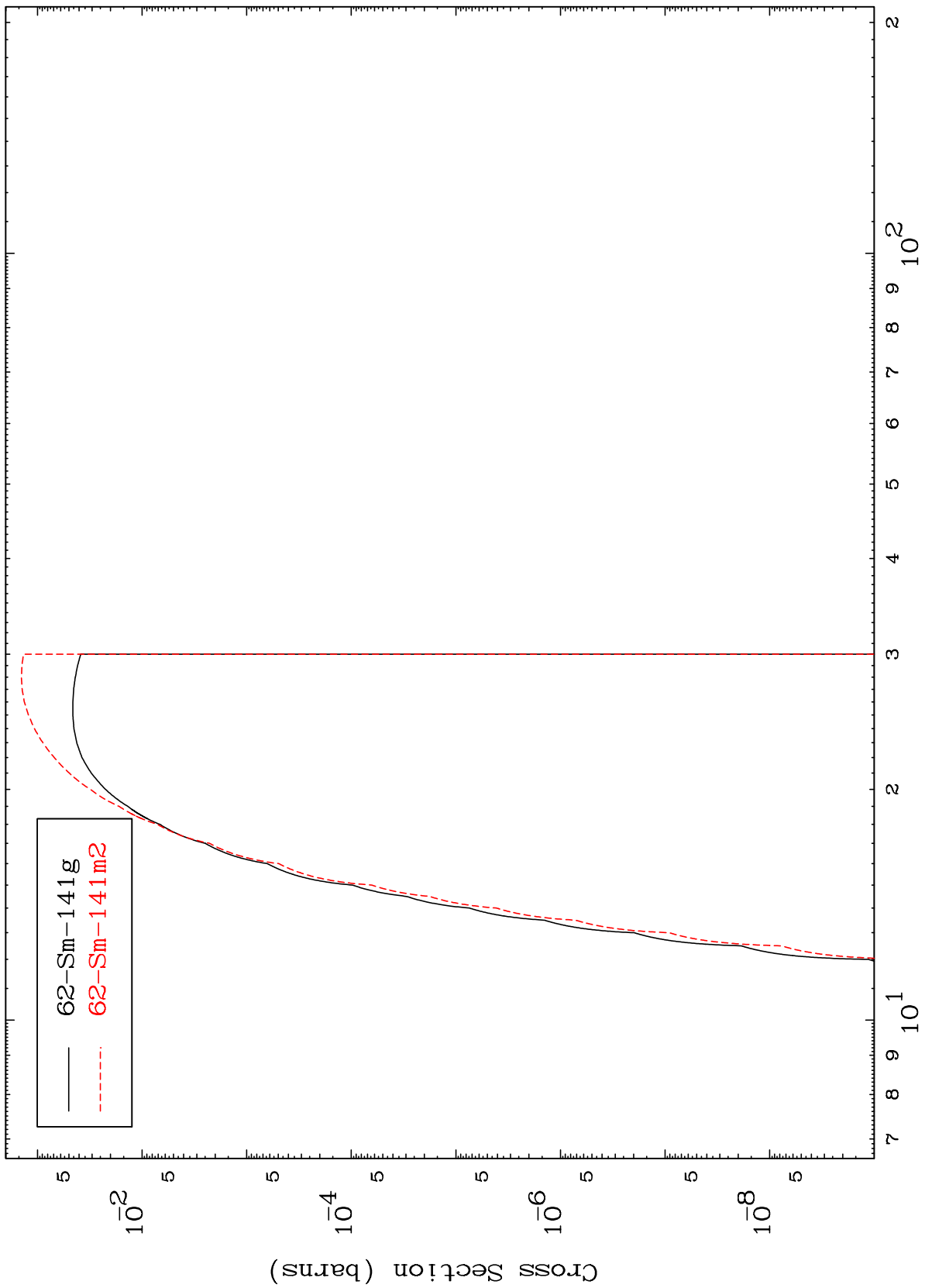
64-Gd-143

MAT 6398

(n,2n) p

64-Gd-143

Radionuclide Production Cross Section



63

Incident Energy (MeV)

64-Gd-143

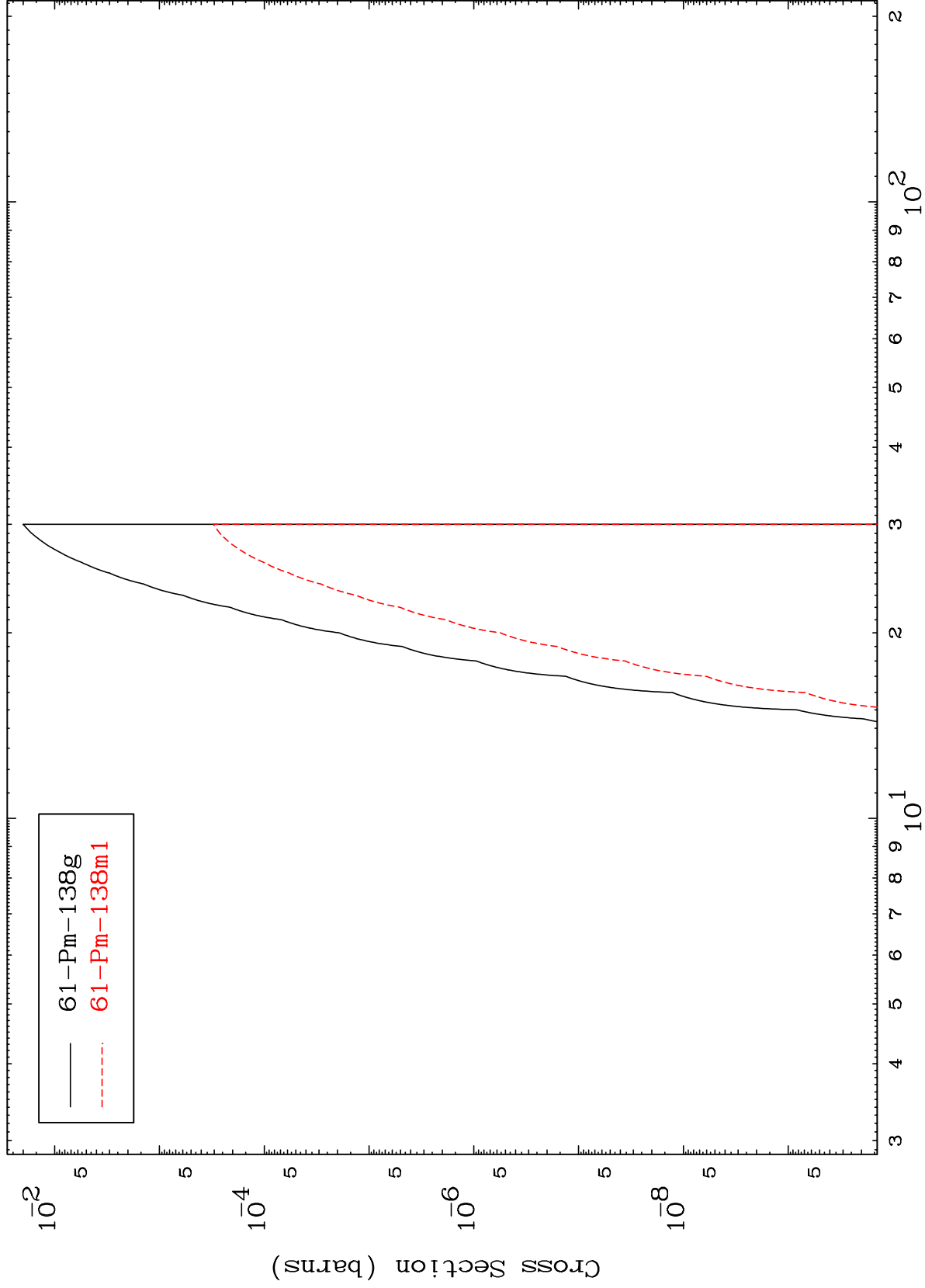


MAT 6398

(n,n') p  $\alpha$

64-Gd-143

Radionuclide Production Cross Section



61-Pm-138g  
61-Pm-138m1

64

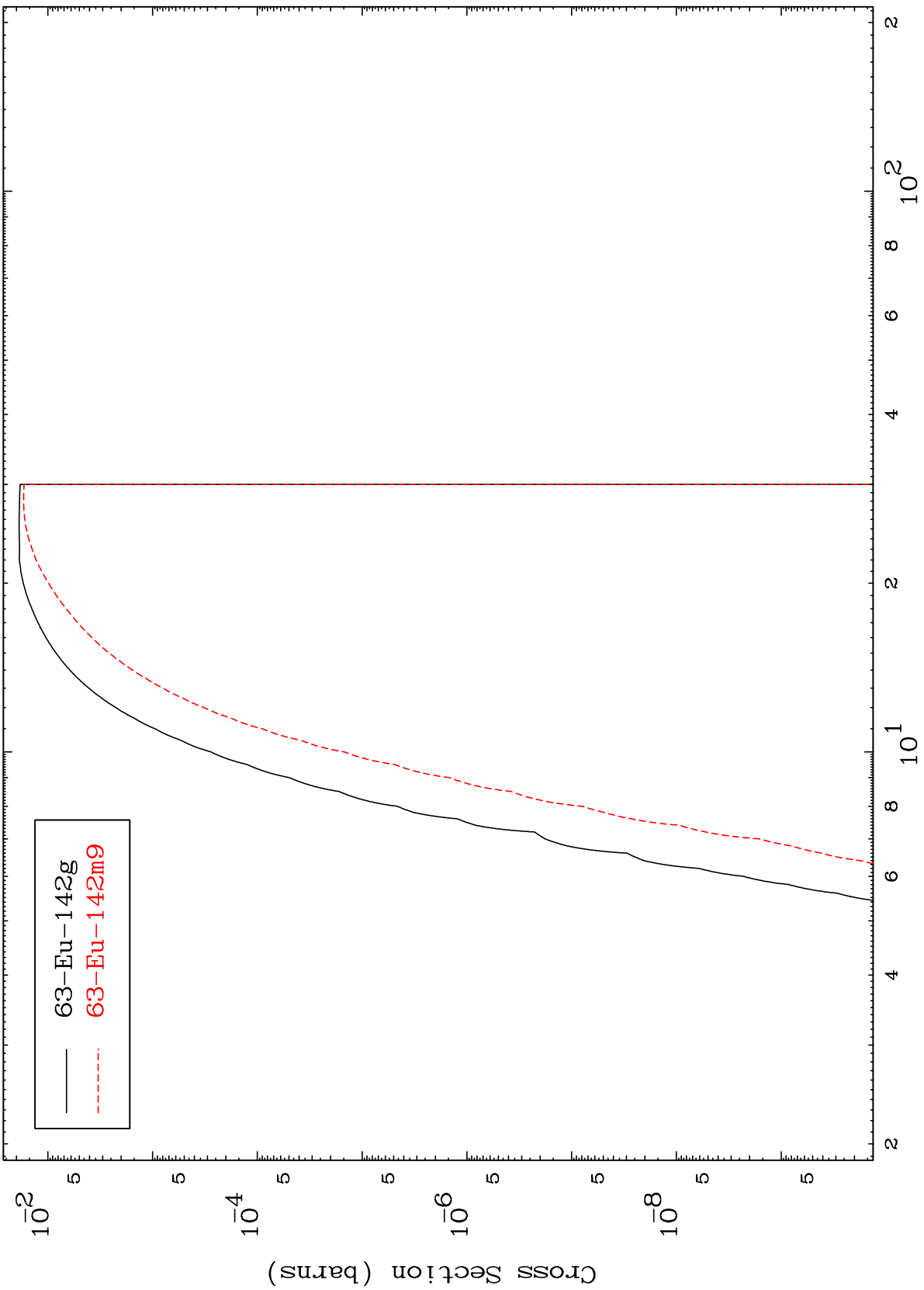
Incident Energy (MeV)

64-Gd-143

MAT 6398

64-Gd-143

(n,d)  
Radionuclide Production Cross Section



— 63-Eu-142g  
- - - 63-Eu-142m9

65

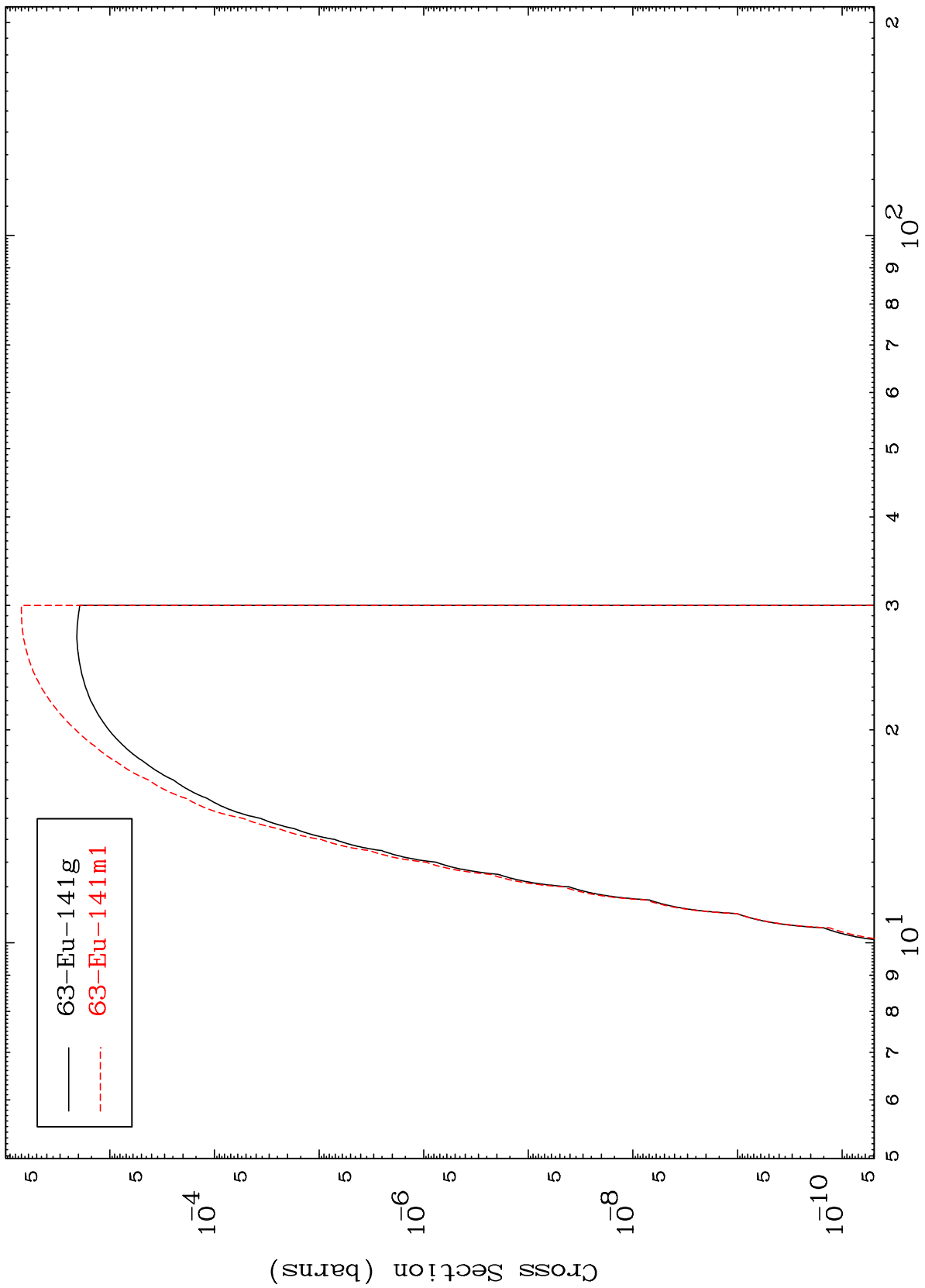
Incident Energy (MeV)

64-Gd-143

MAT 6398

64-Gd-143

(n, t)  
Radionuclide Production Cross Section



66

Incident Energy (MeV)

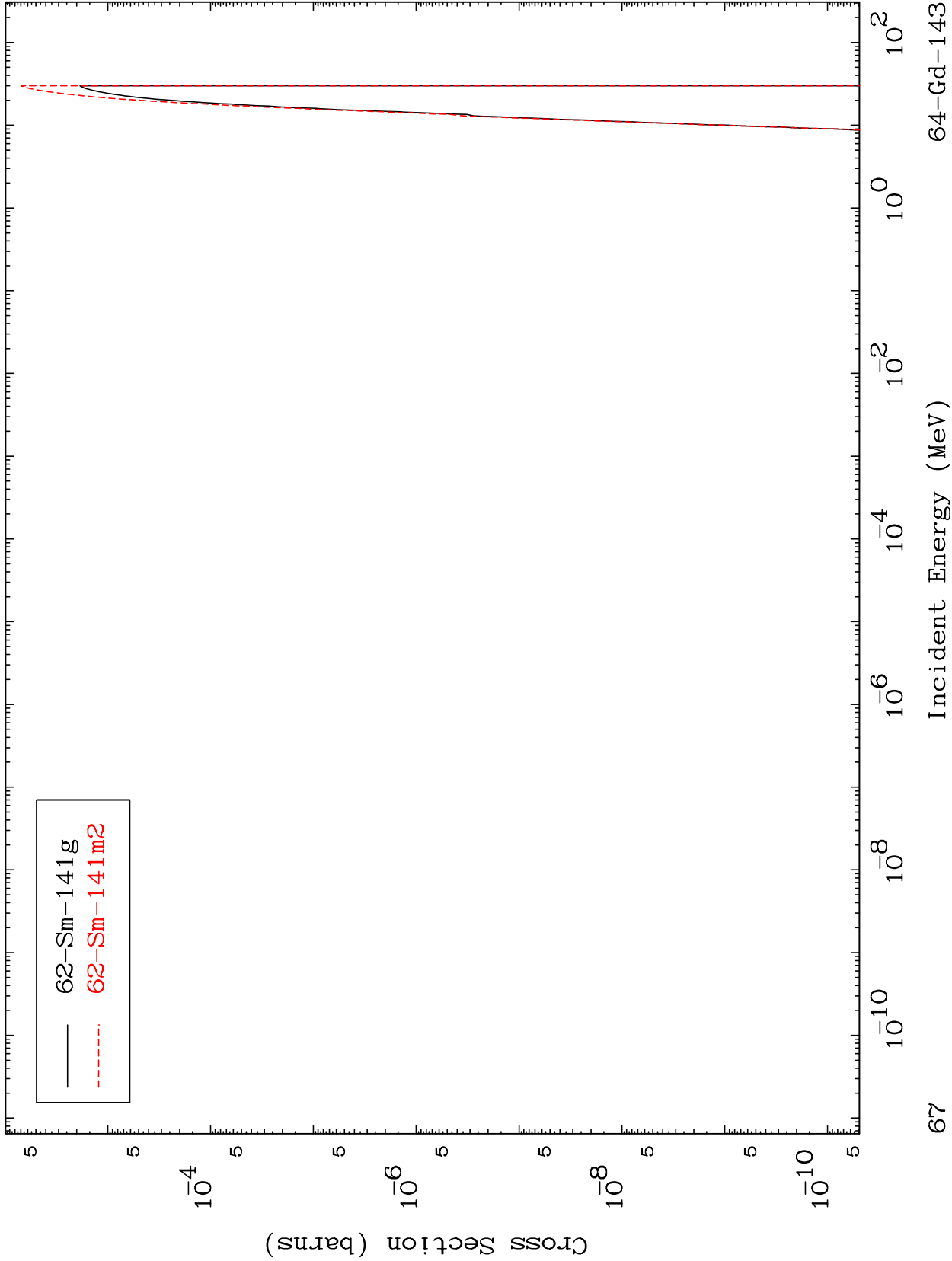
64-Gd-143

MAT 6398

(n,He-3)

64-Gd-143

Radionuclide Production Cross Section



67

Incident Energy (MeV)

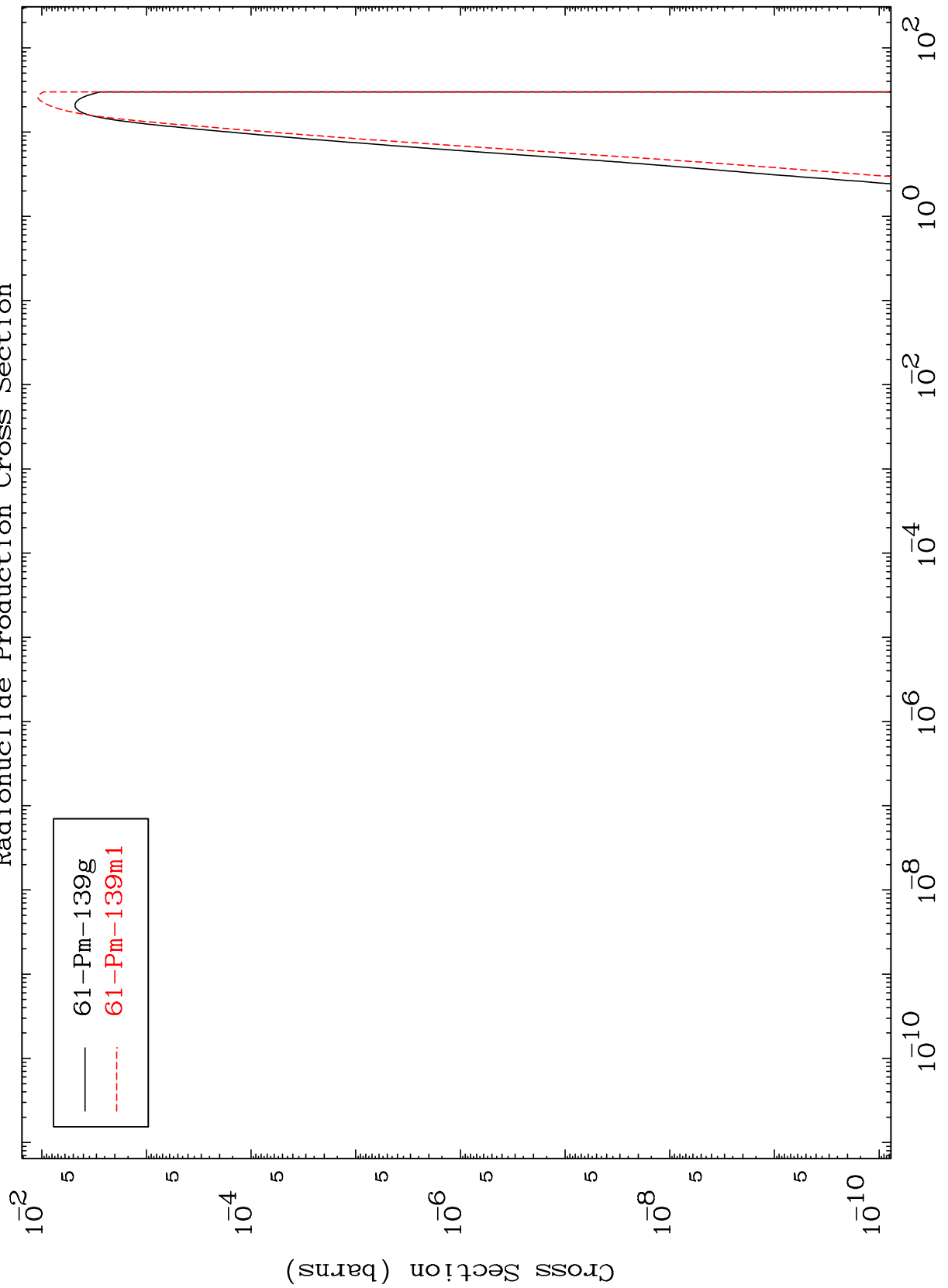
64-Gd-143

MAT 6398

(n,p)  $\alpha$

64-Gd-143

Radionuclide Production Cross Section



68

Incident Energy (MeV)

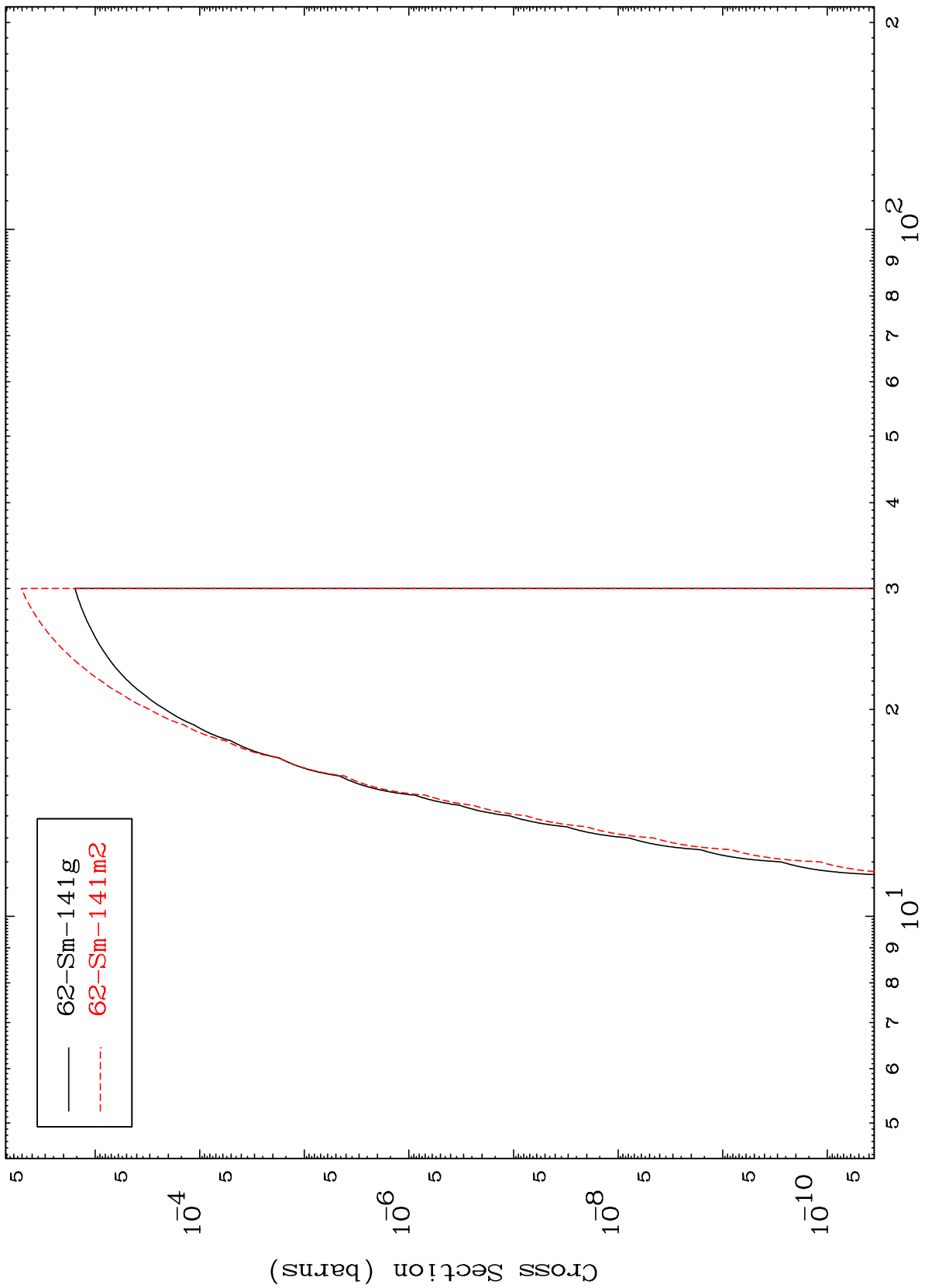
64-Gd-143

MAT 6398

(n,p) d

64-Gd-143

Radionuclide Production Cross Section



69

Incident Energy (MeV)

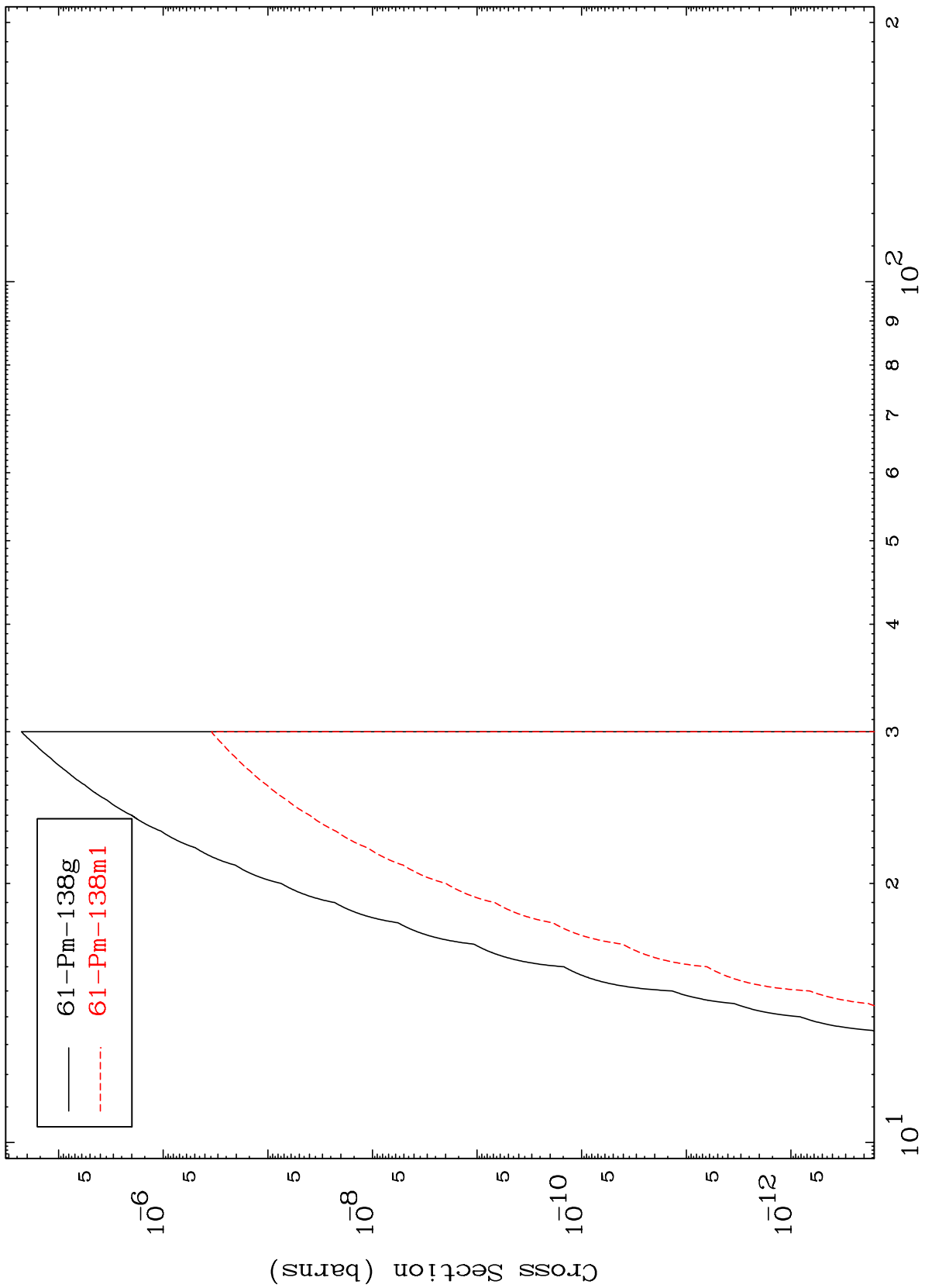
64-Gd-143

MAT 6398

(n,d)  $\alpha$

64-Gd-143

Radionuclide Production Cross Section



Incident Energy (MeV)

64-Gd-143

70