

Program EVALPLOT  
(Version 2015-2)

by

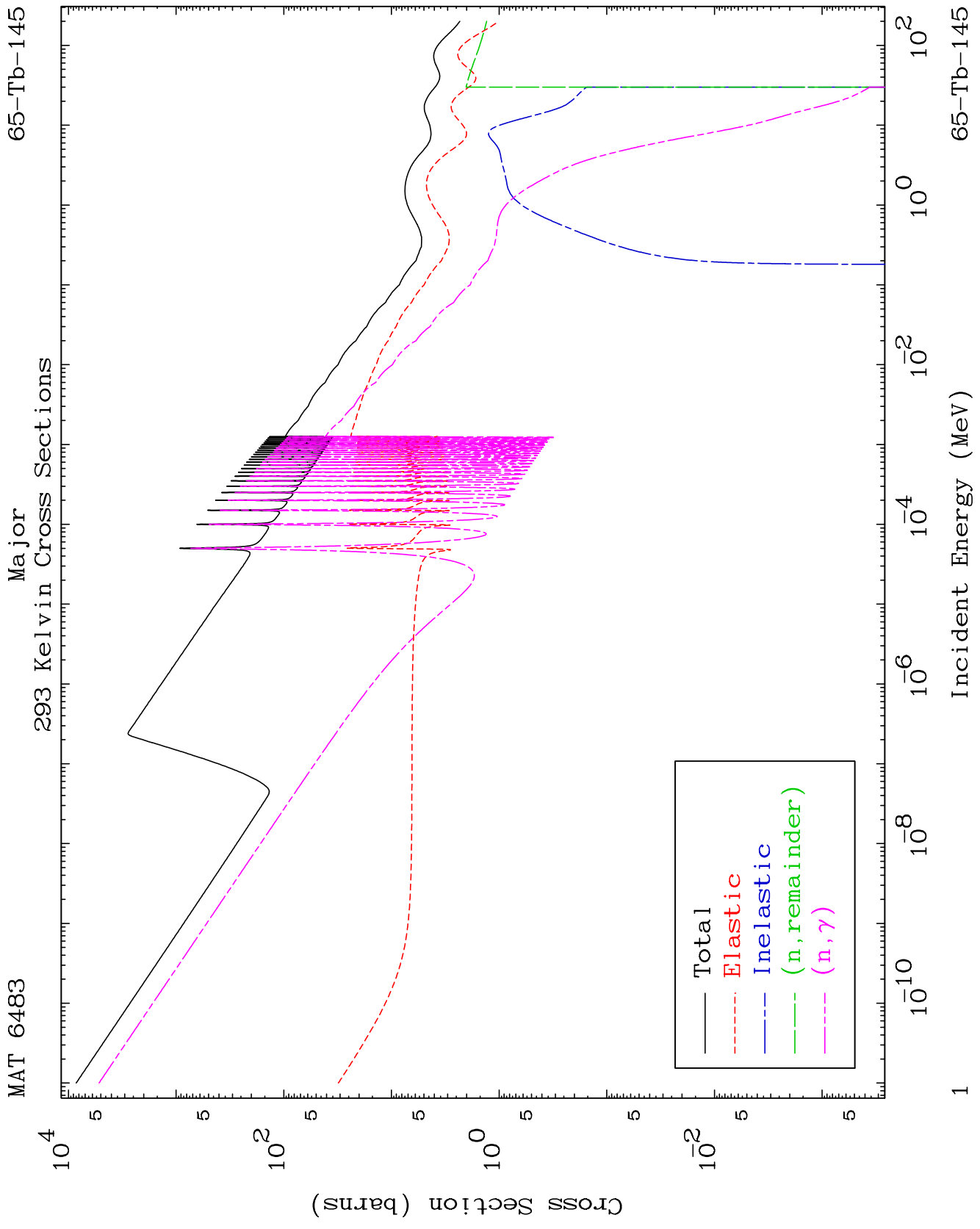
Dermott E. Cullen  
(Present Contact Information)

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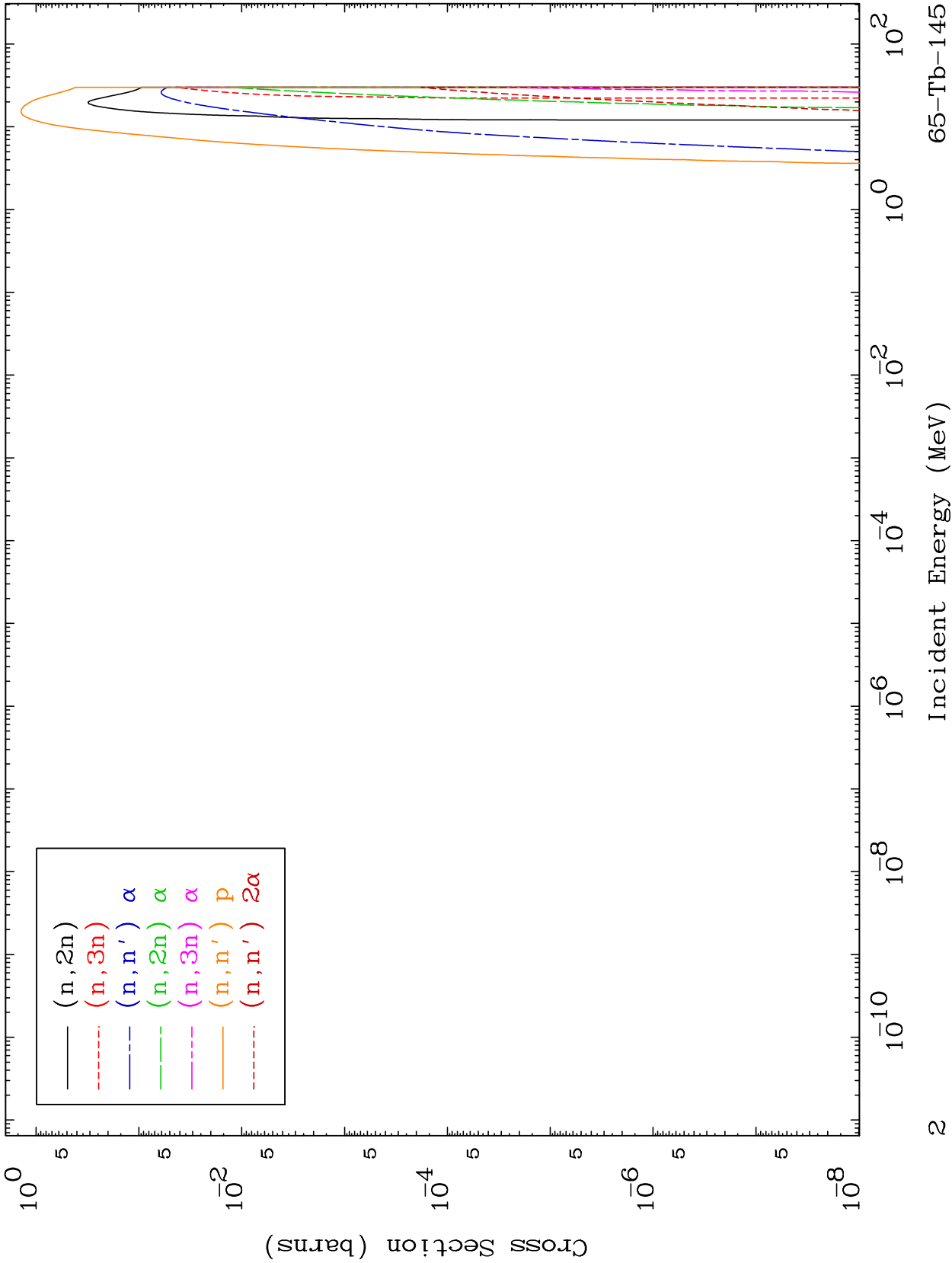
Press Mouse Button to Start



MAT 6483

Neutron Production  
293 Kelvin Cross Sections

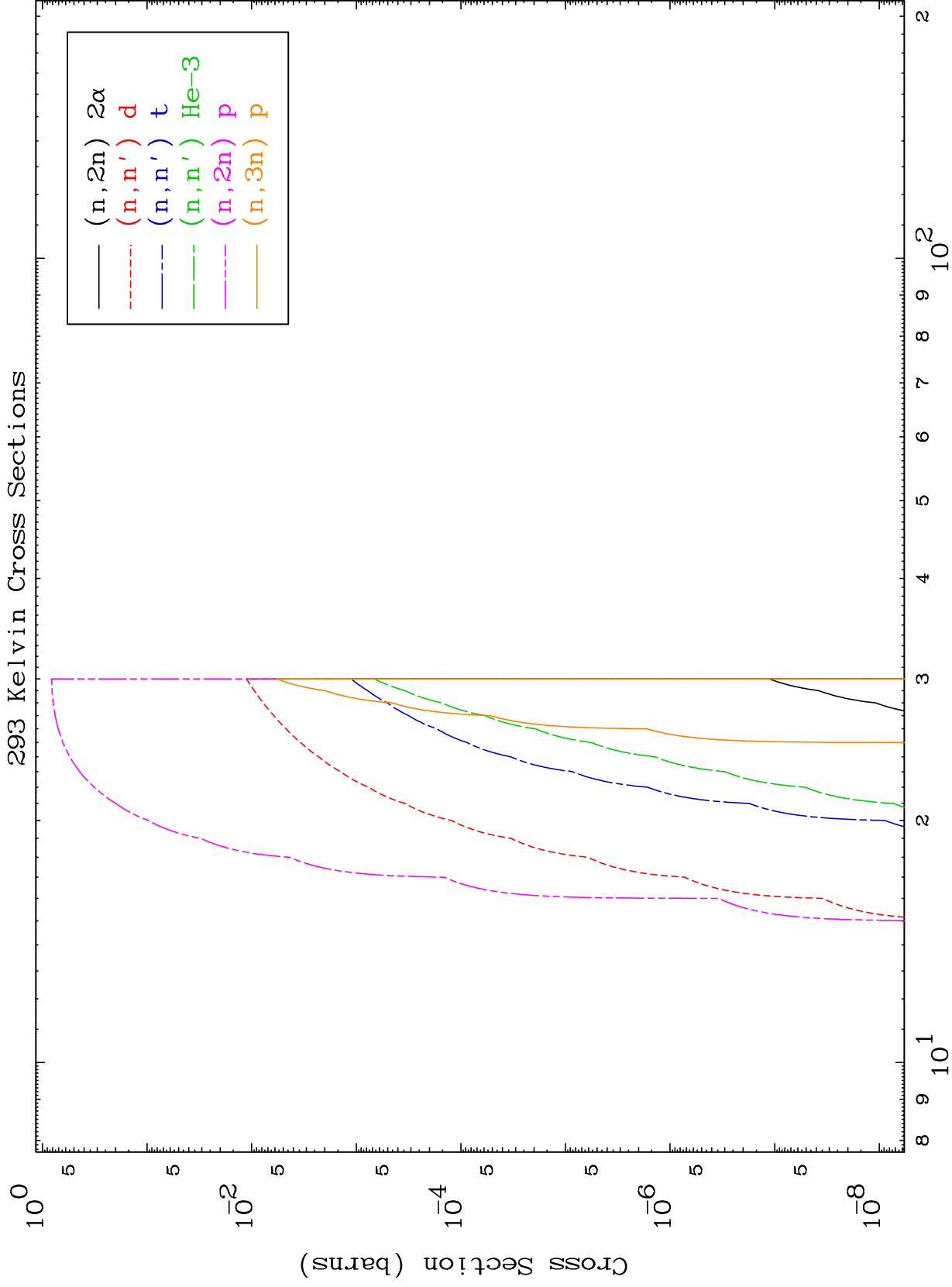
65-Tb-145



MAT 6483

Neutron Production  
293 Kelvin Cross Sections

65-Tb-145



Incident Energy (MeV)

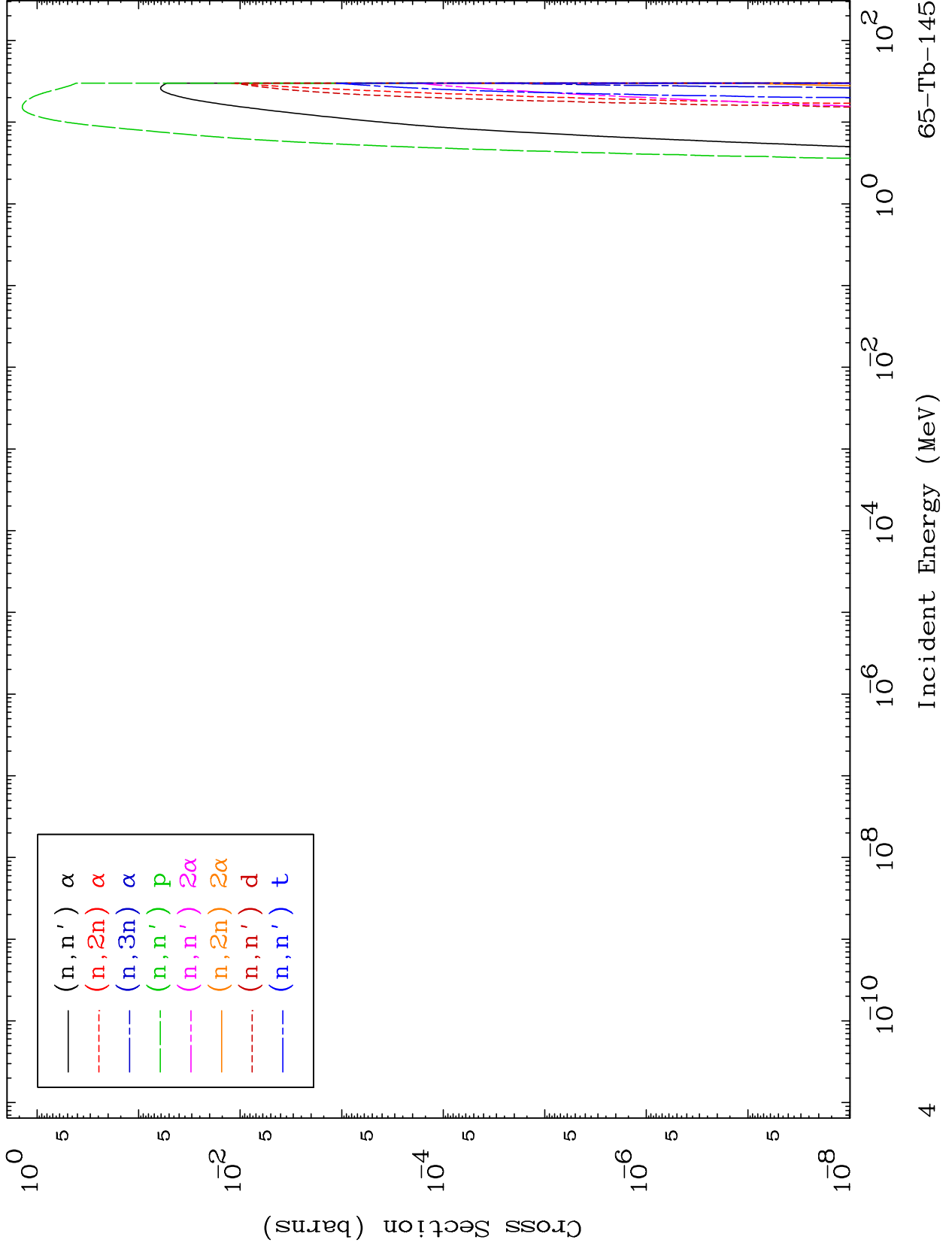
65-Tb-145

3

MAT 6483

Charged Particle  
293 Kelvin Cross Sections

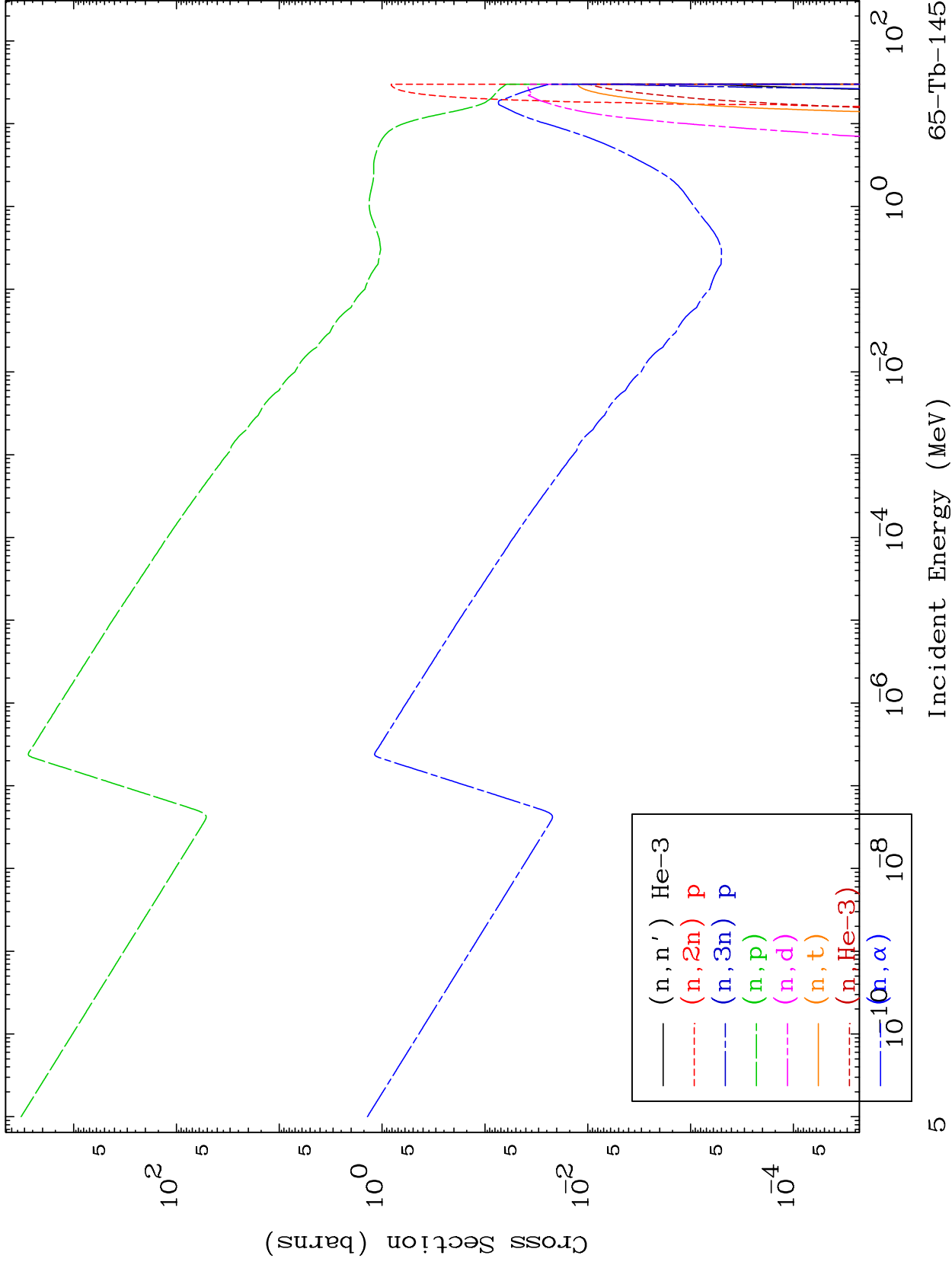
65-Tb-145



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Charged Particle  
293 Kelvin Cross Sections

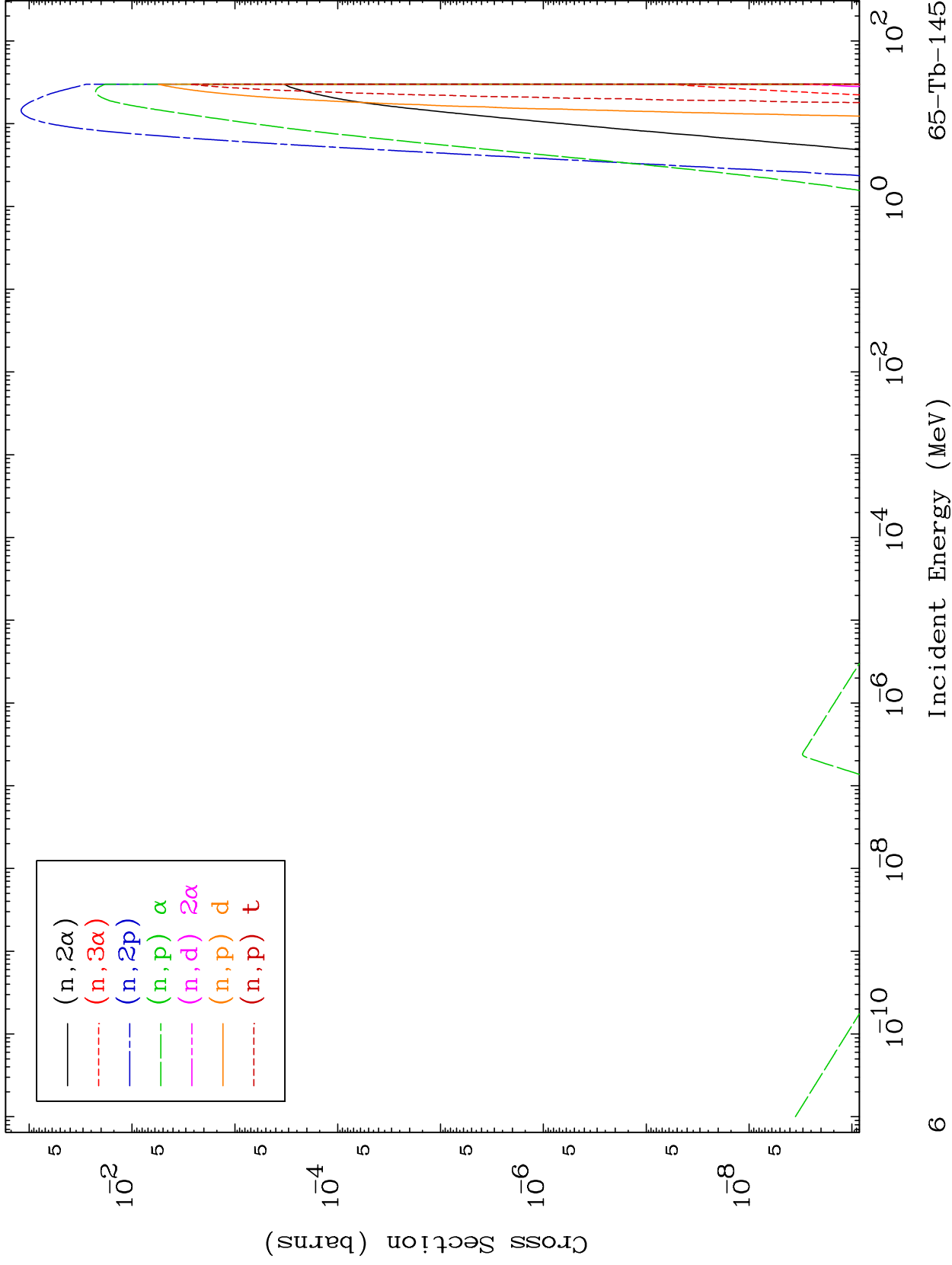
65-Tb-145



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Charged Particle  
293 Kelvin Cross Sections

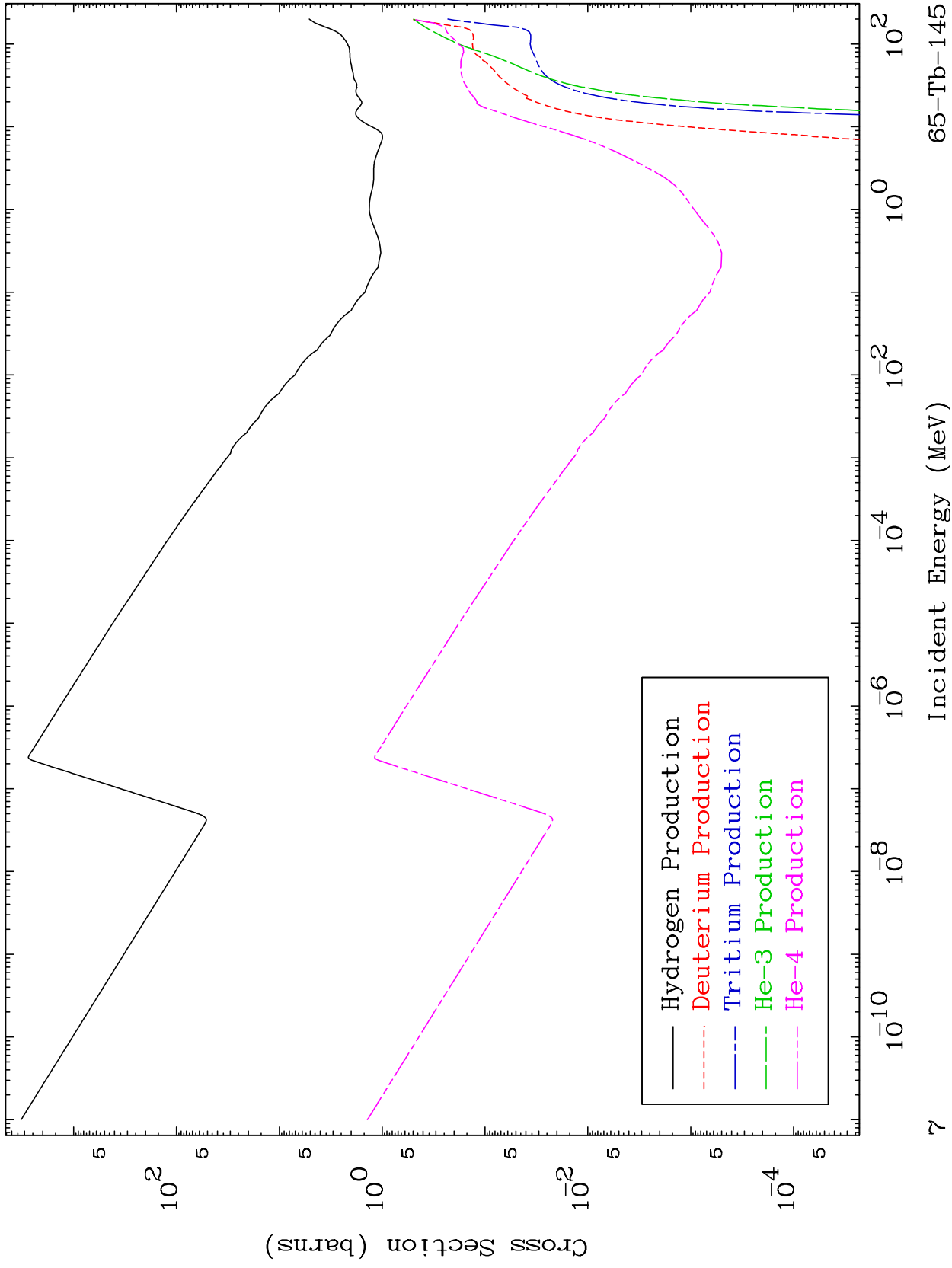
65-Tb-145



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Particle Production  
293 Kelvin Cross Sections

65-Tb-145



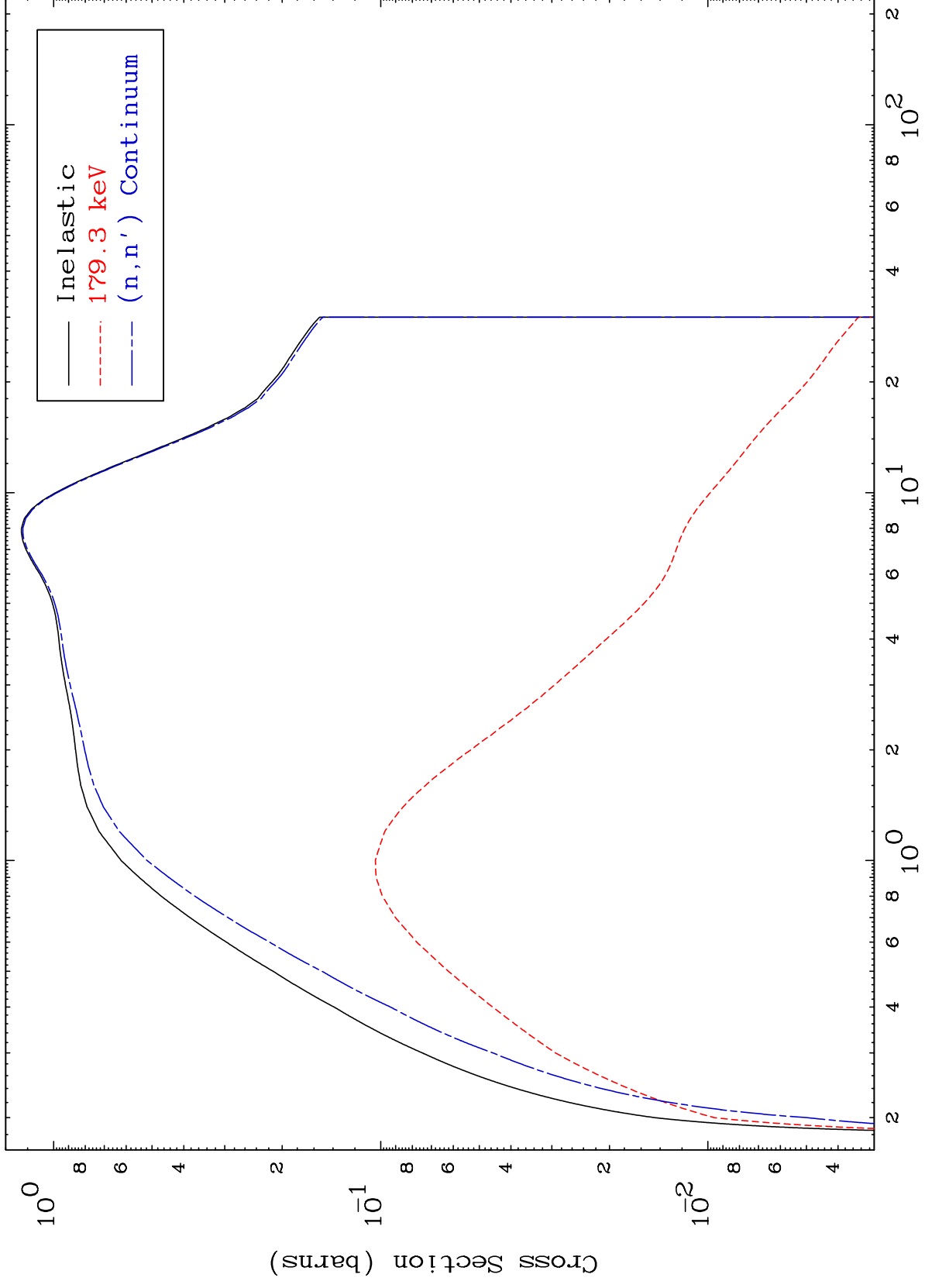


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(n,n') Level

65-Tb-145

293 Kelvin Cross Sections



8

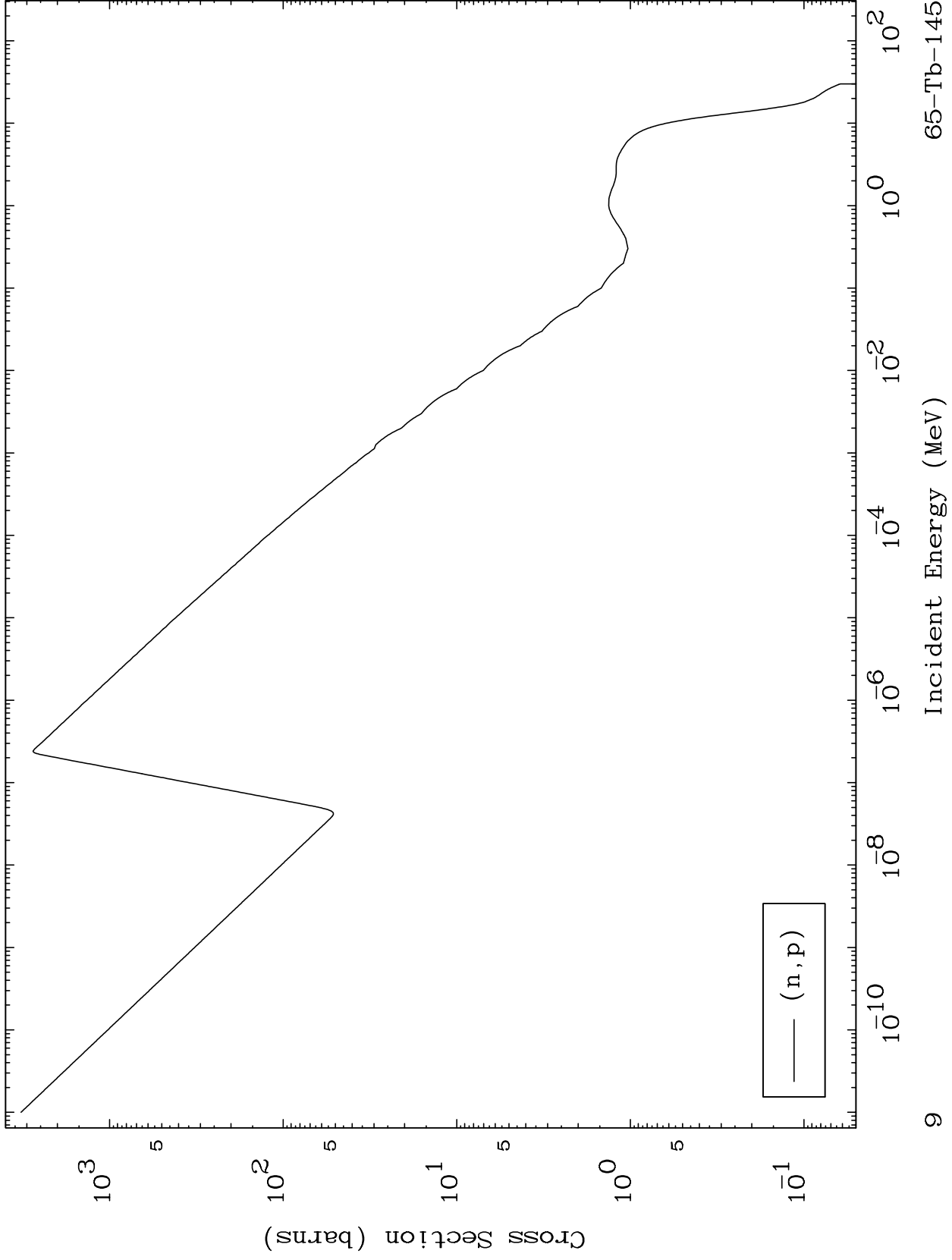
Incident Energy (MeV)

65-Tb-145

MAT 6483

(n,p) Levels  
293 Kelvin Cross Sections

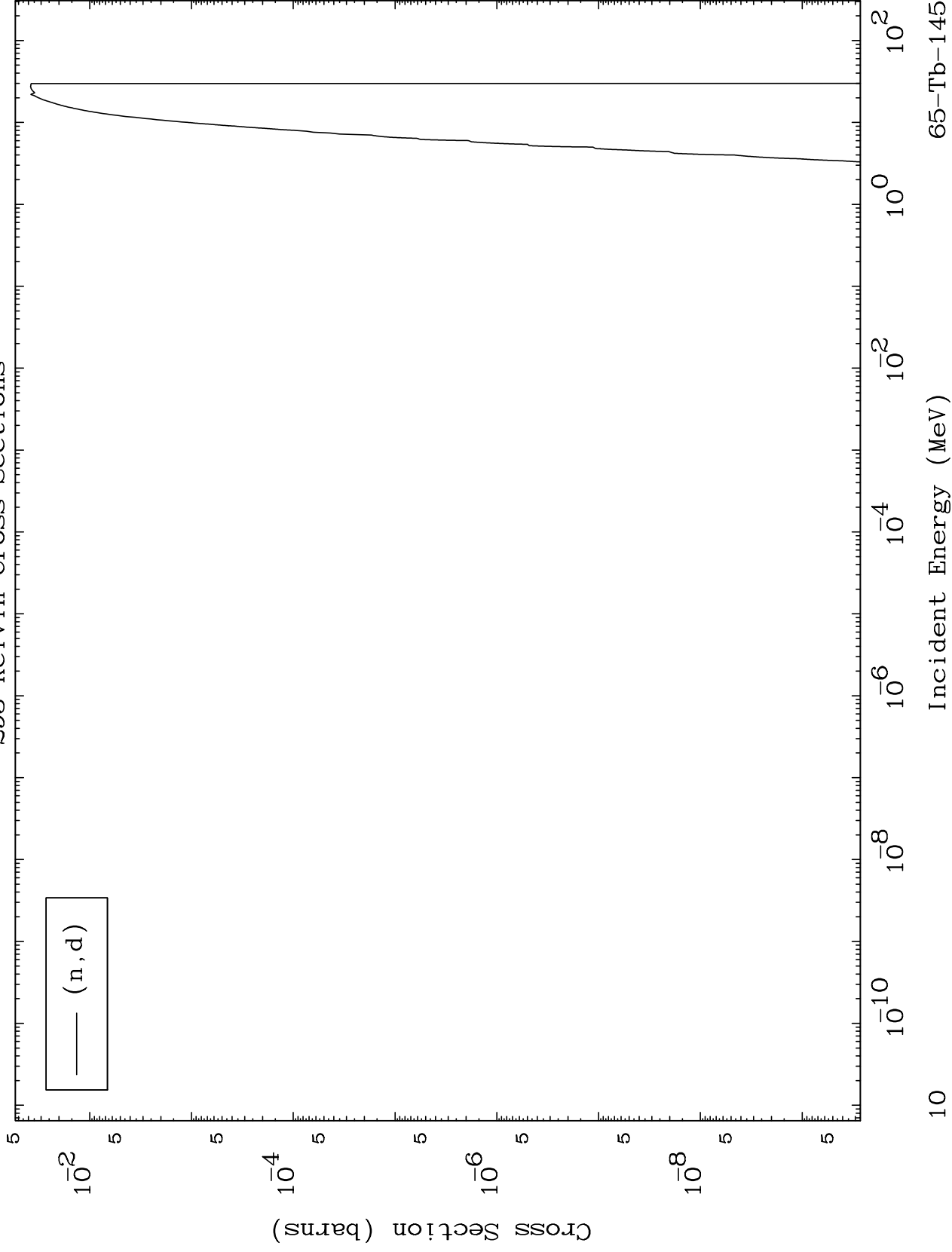
65-Tb-145



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(n,d) Levels  
293 Kelvin Cross Sections

65-Tb-145



10

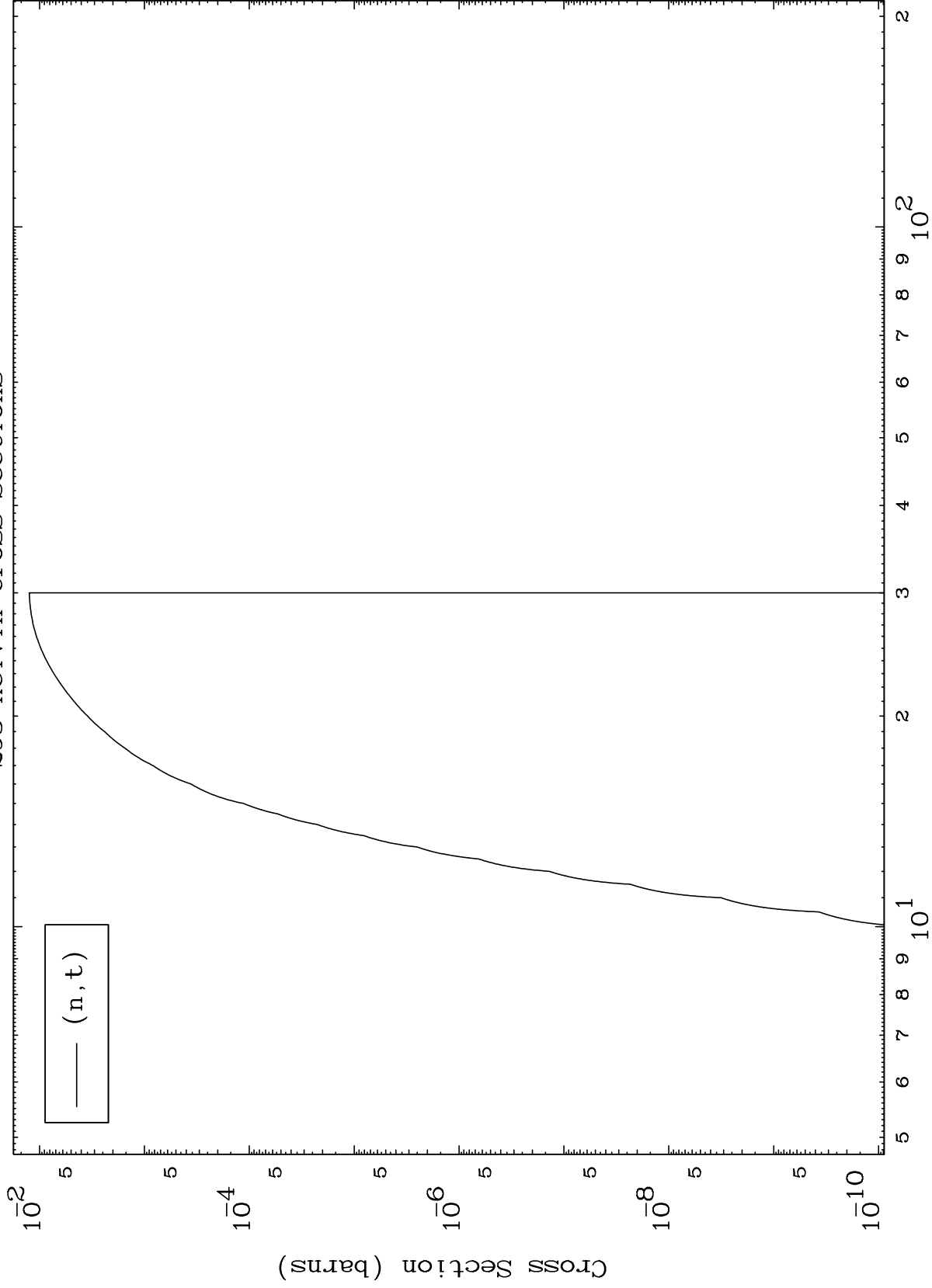
Incident Energy (MeV)

65-Tb-145

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(n,t) Levels  
293 Kelvin Cross Sections

65-Tb-145



11

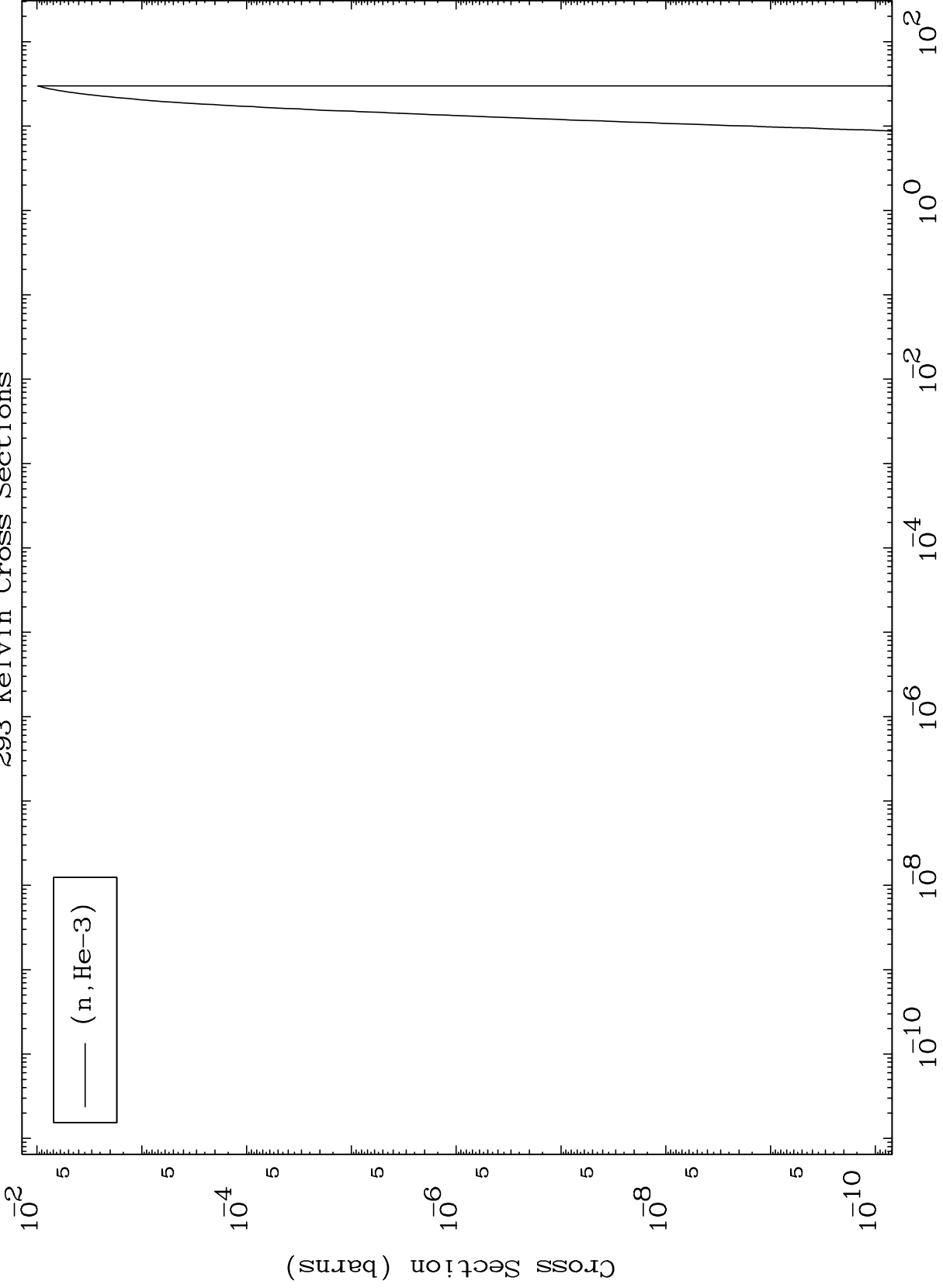
Incident Energy (MeV)

65-Tb-145

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(n,He3) Levels  
293 Kelvin Cross Sections

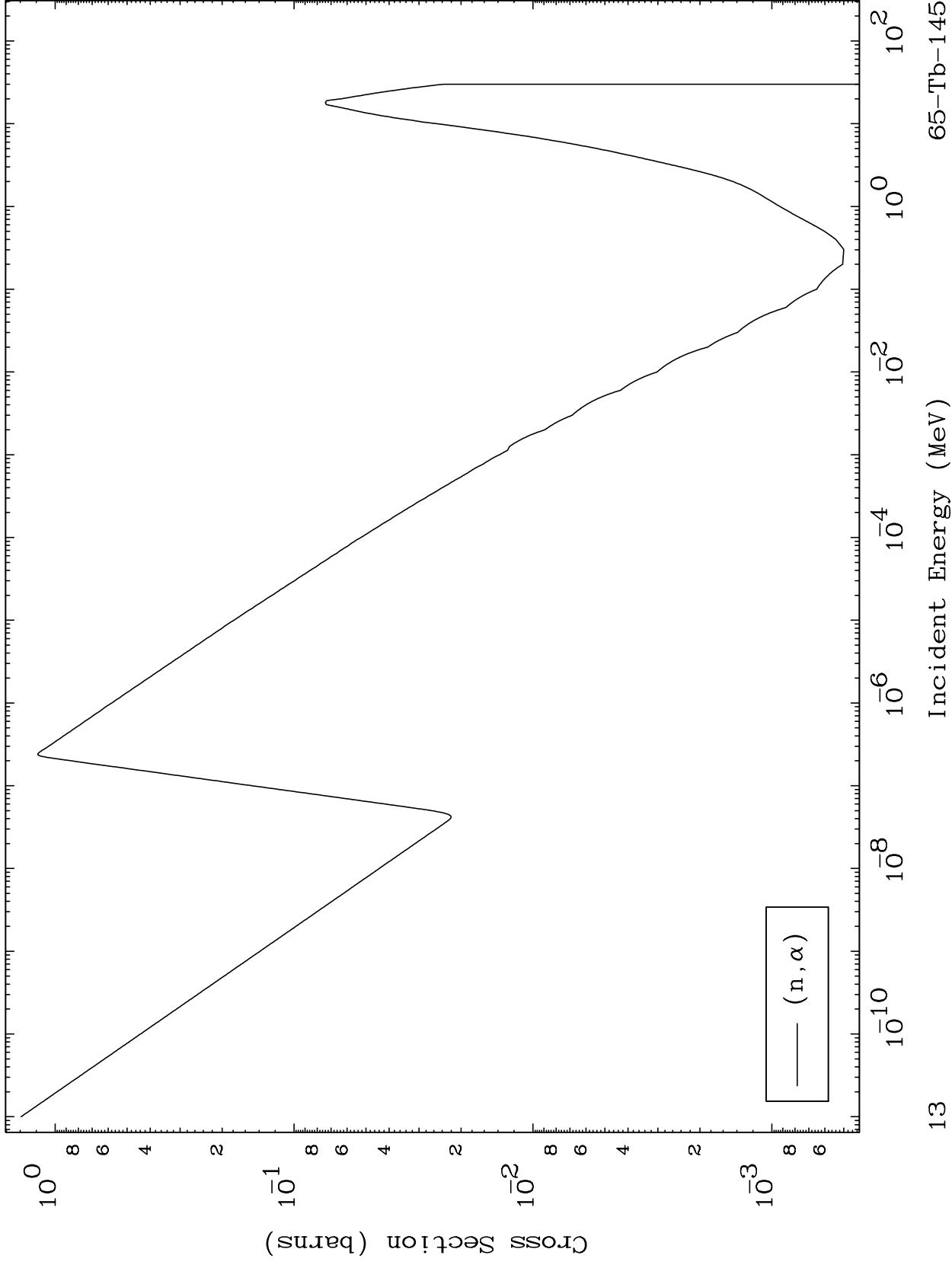
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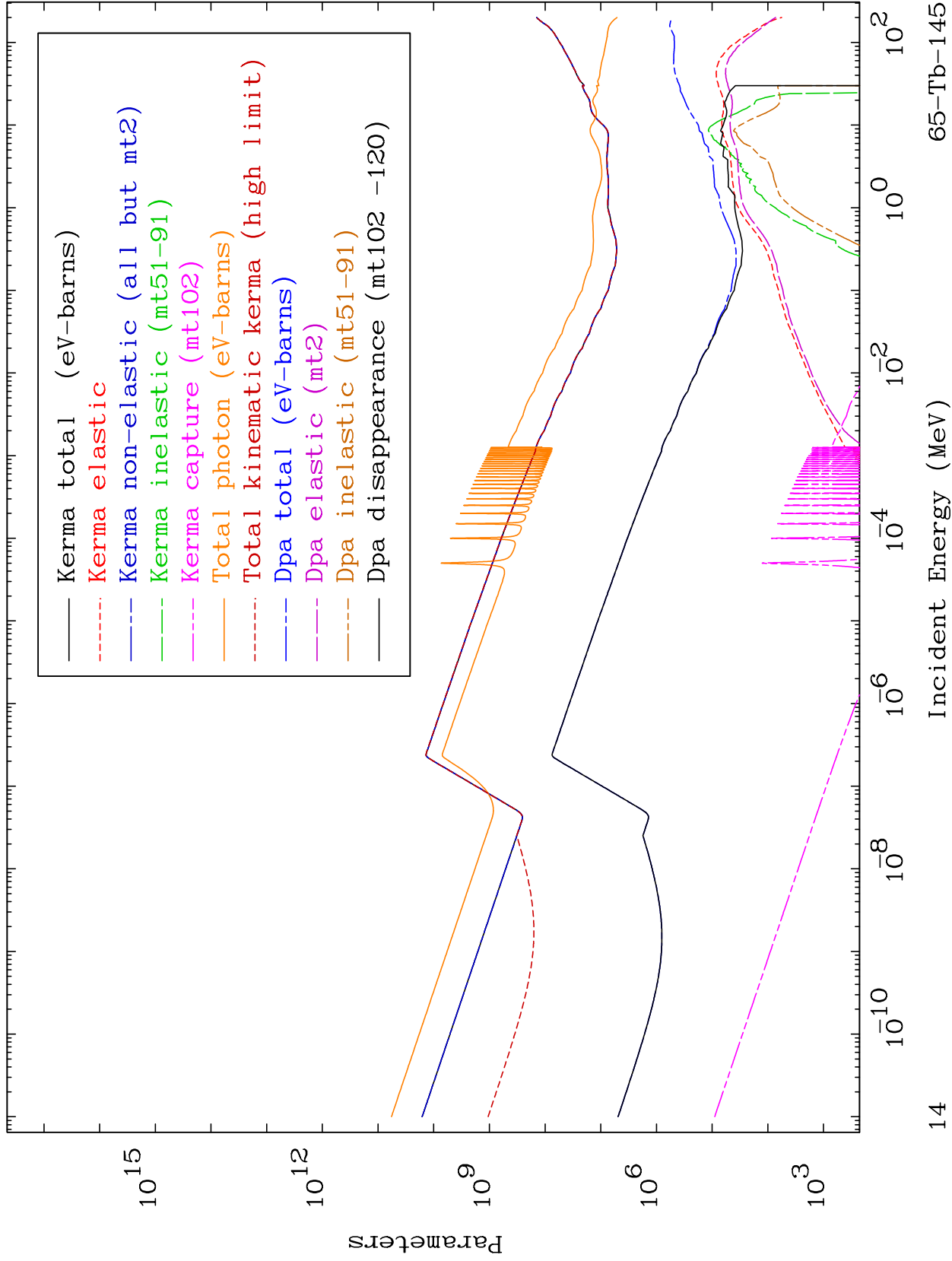


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(n,α) Levels  
293 Kelvin Cross Sections

65-Tb-145

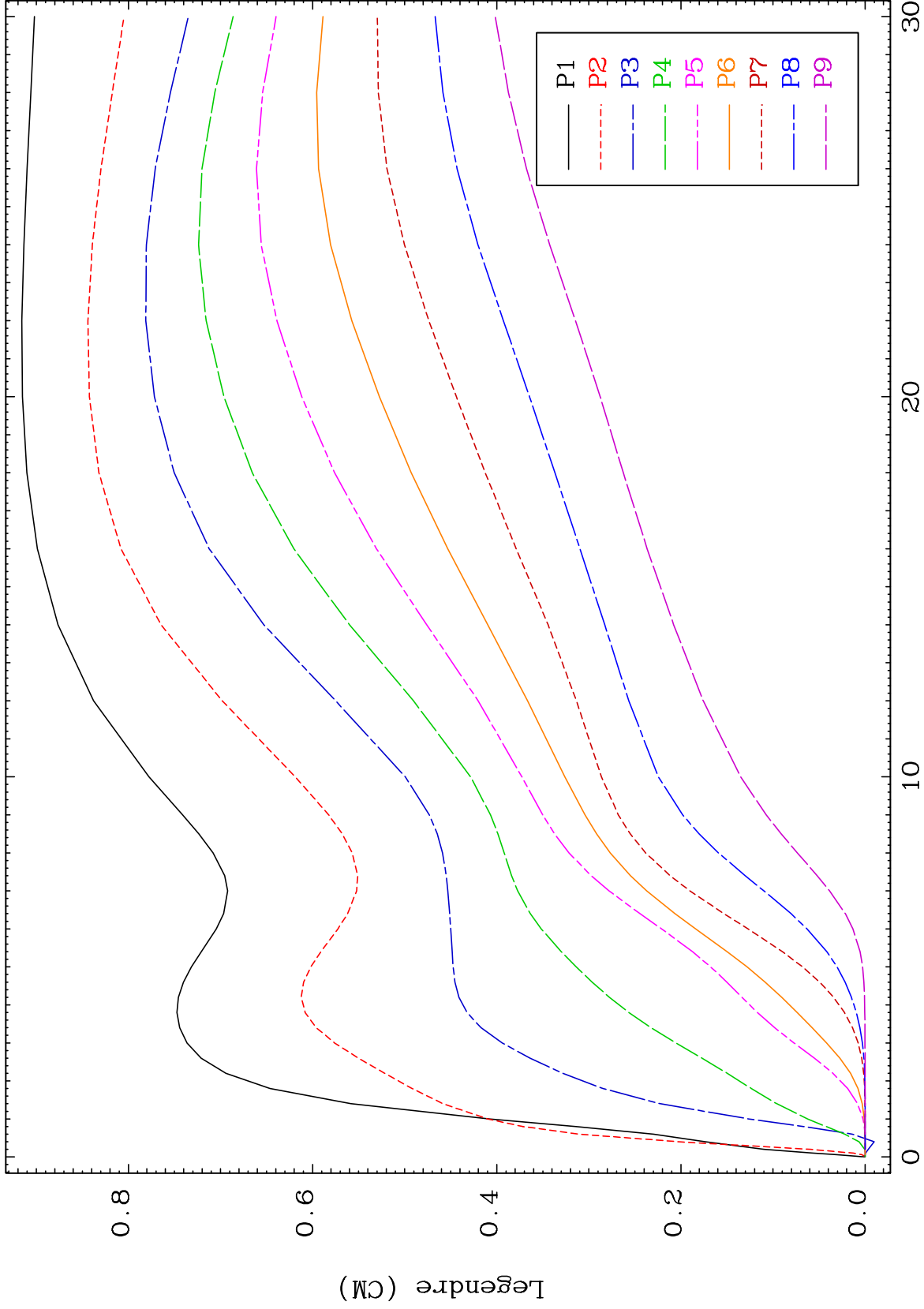




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Elastic Legendre Coefficients

65-Tb-145



15

Incident Energy (MeV)

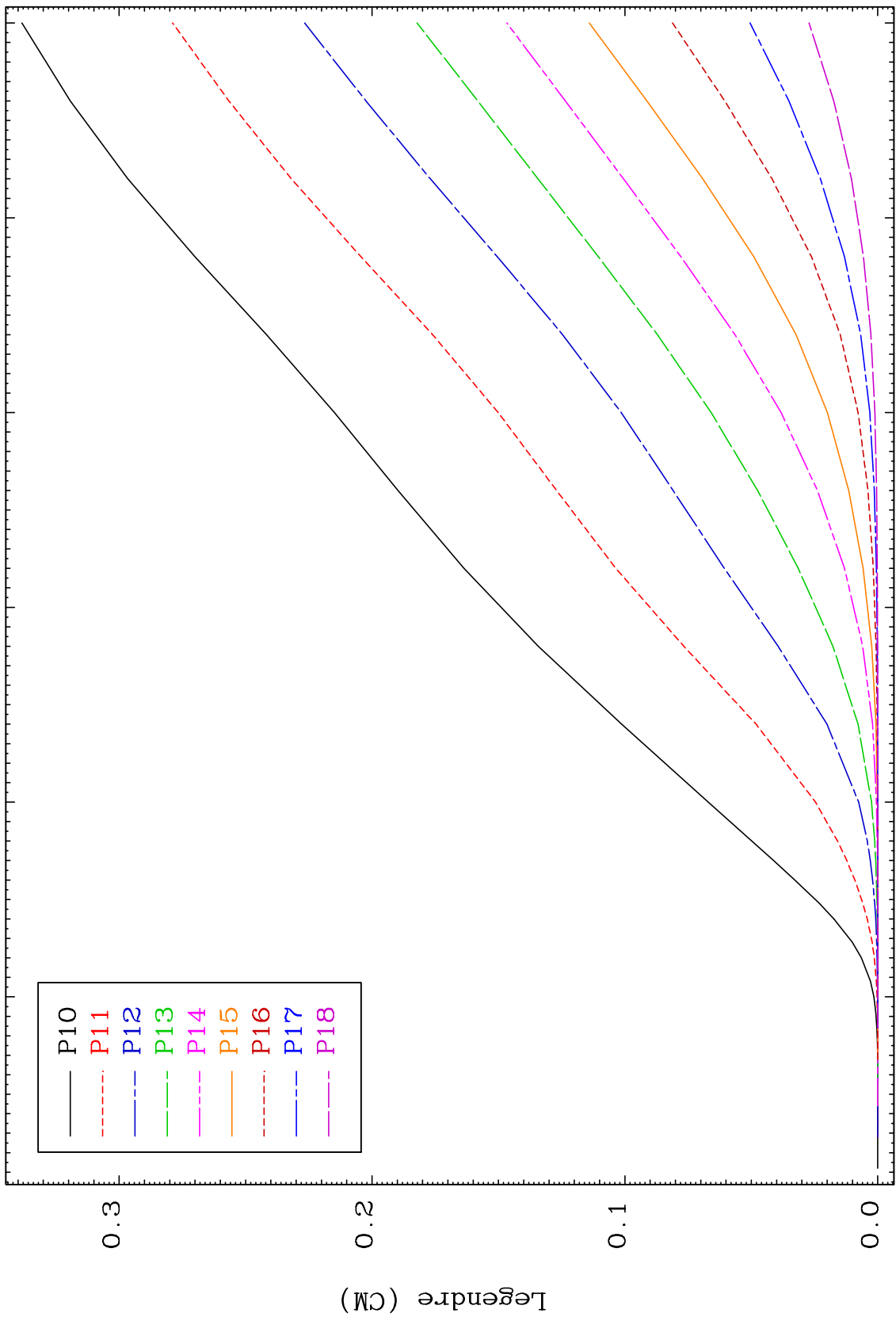
65-Tb-145



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Elastic Legendre Coefficients

65-Tb-145



16

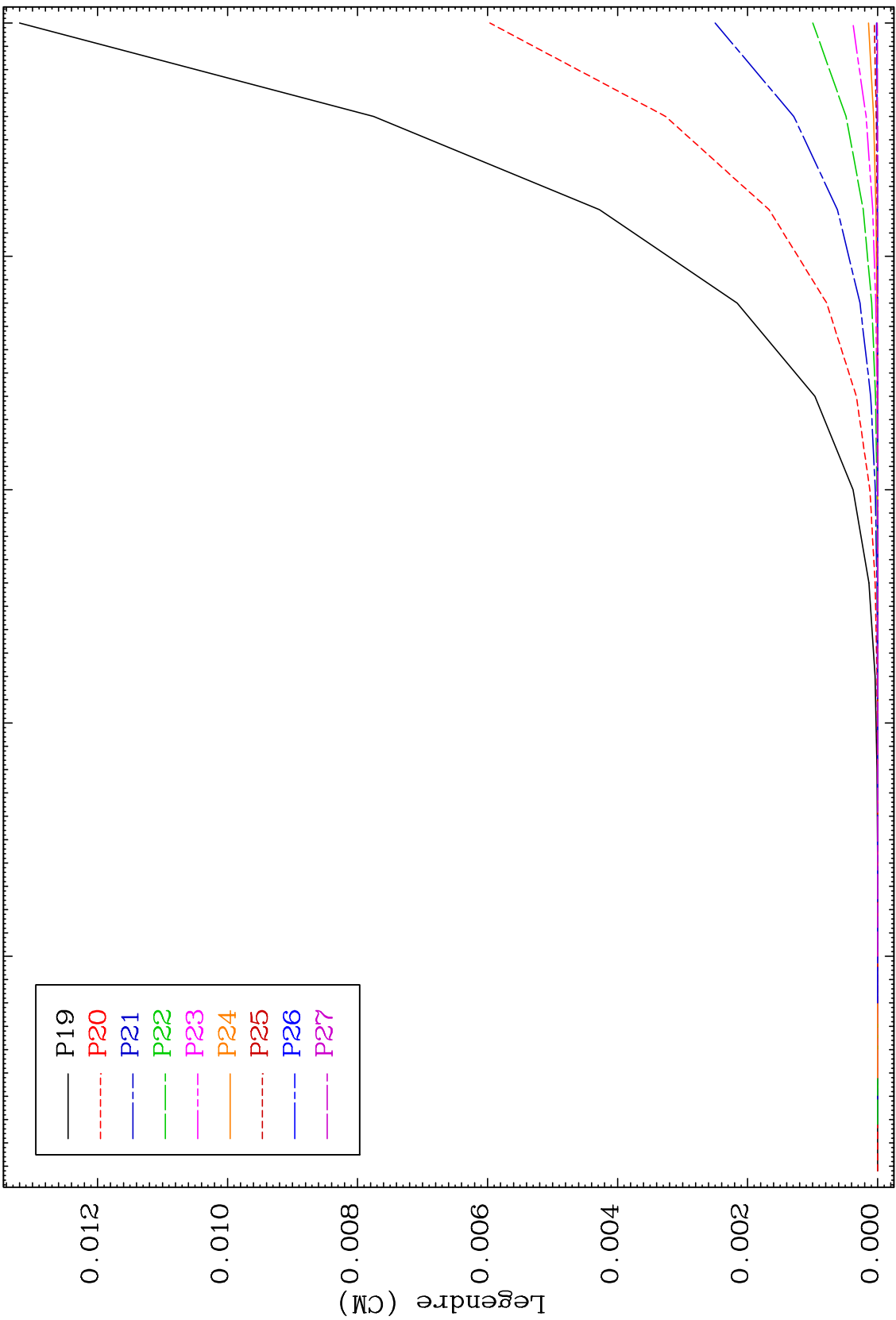
Incident Energy (MeV)

65-Tb-145

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Elastic Legendre Coefficients

65-Tb-145



17

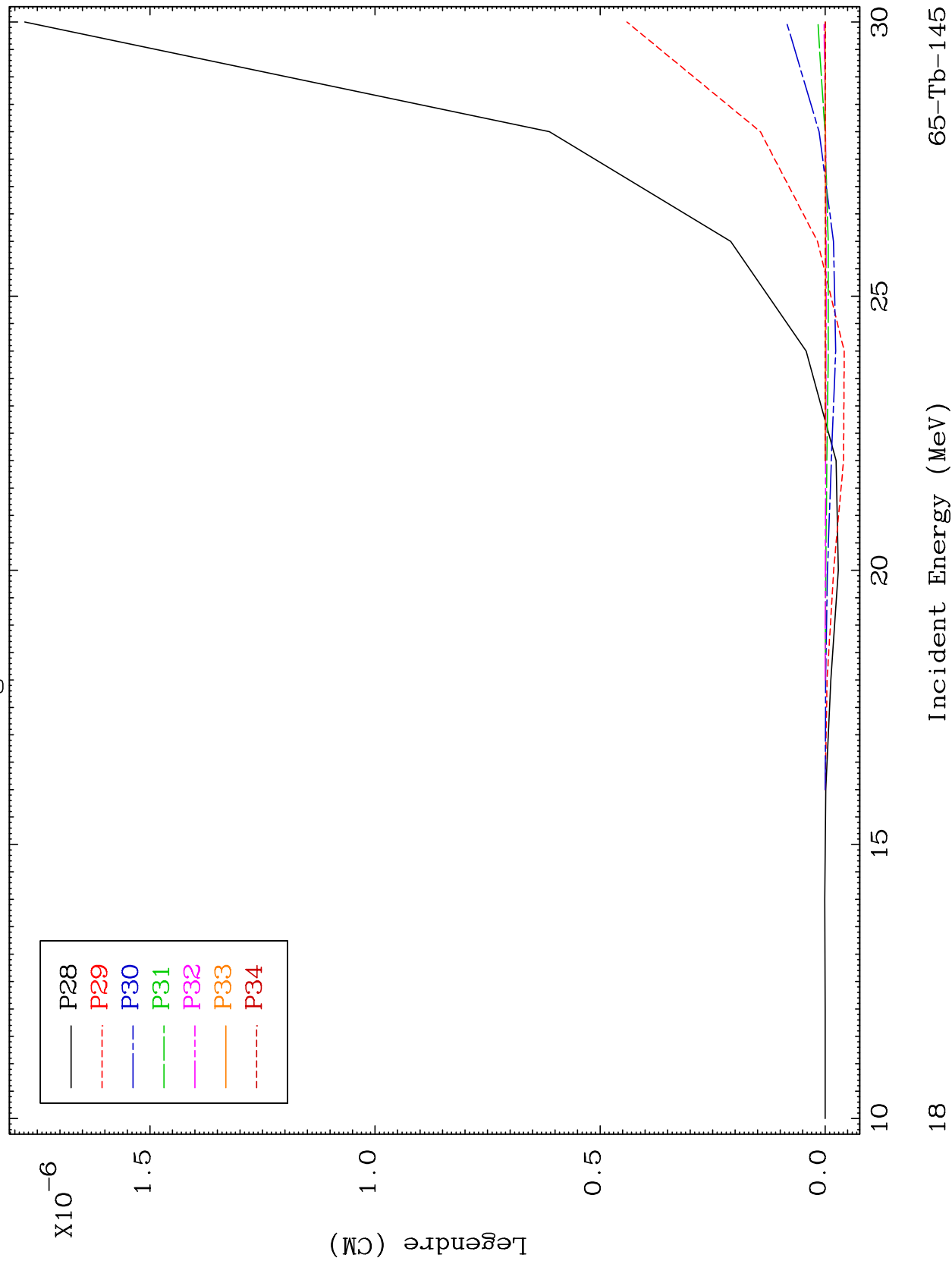
Incident Energy (MeV)

65-Tb-145

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Elastic Legendre Coefficients

65-Tb-145



18

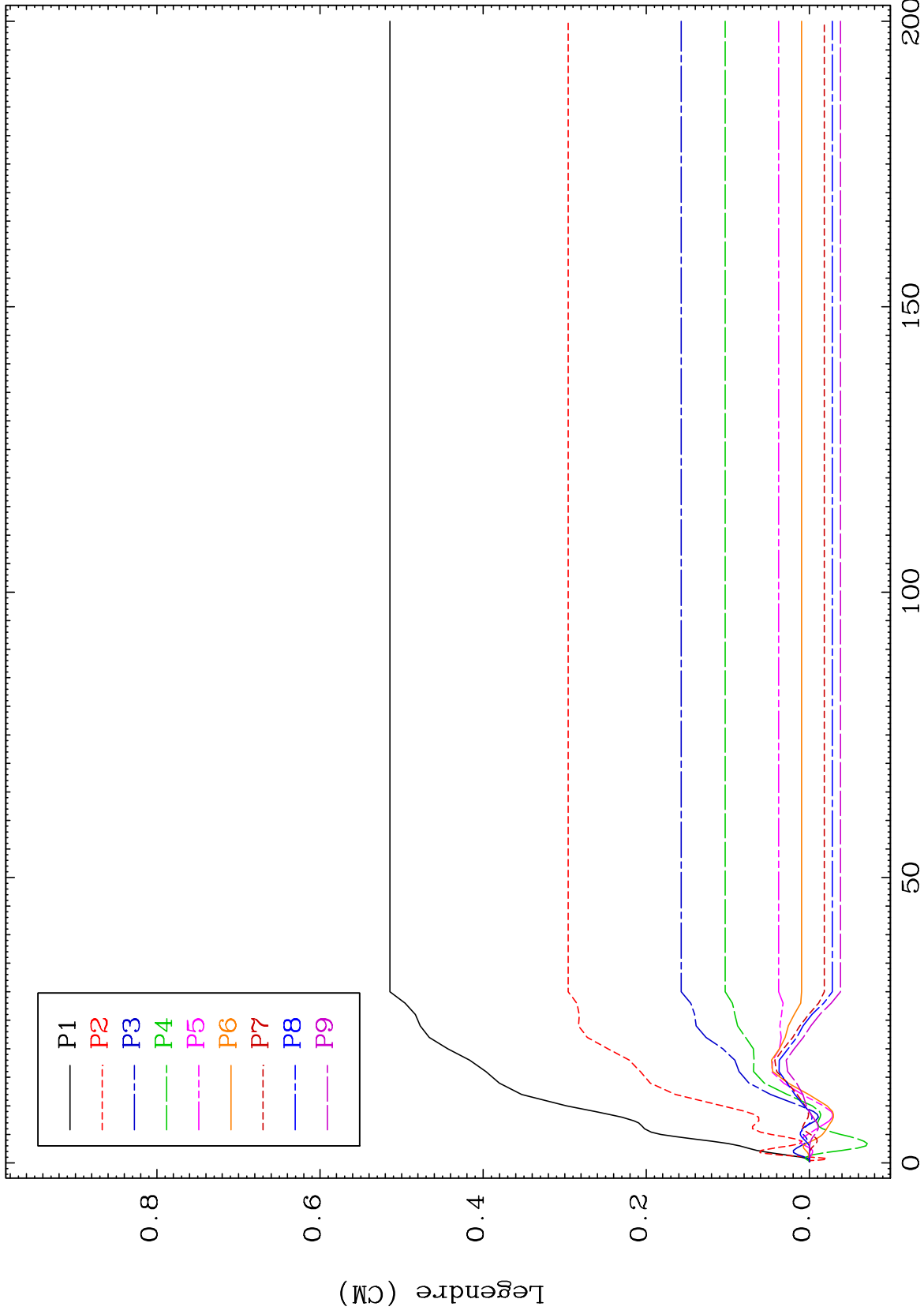
Incident Energy (MeV)

65-Tb-145

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179.3 keV (n,n') Level  
Legendre Coefficients

65-Tb-145



19

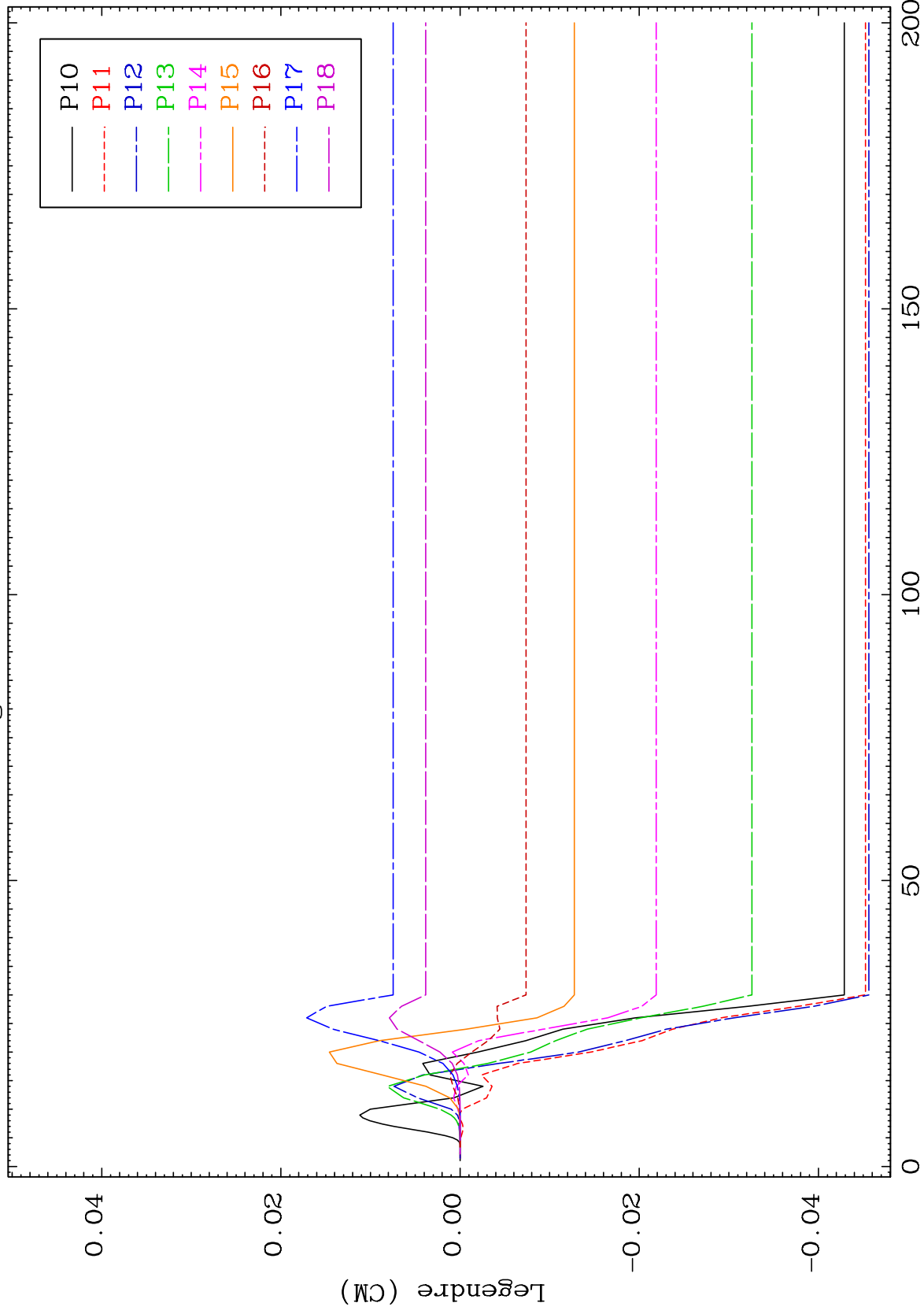
Incident Energy (MeV)

65-Tb-145

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179.3 keV (n, n') Level  
Legendre Coefficients

65-Tb-145



0

50

100

150

200

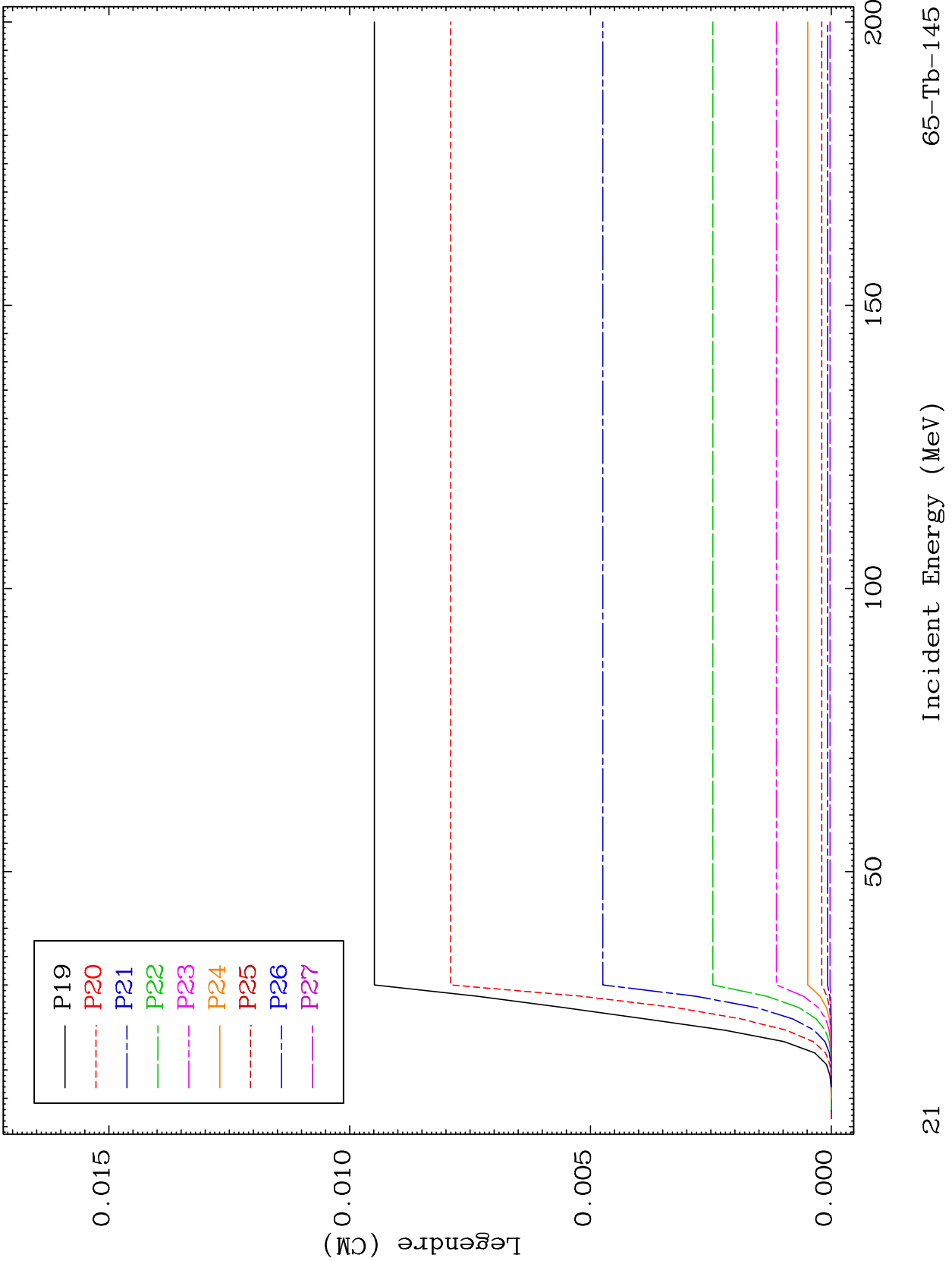
Incident Energy (MeV)

65-Tb-145

MAT 6483

179.3 keV (n,n') Level  
Legendre Coefficients

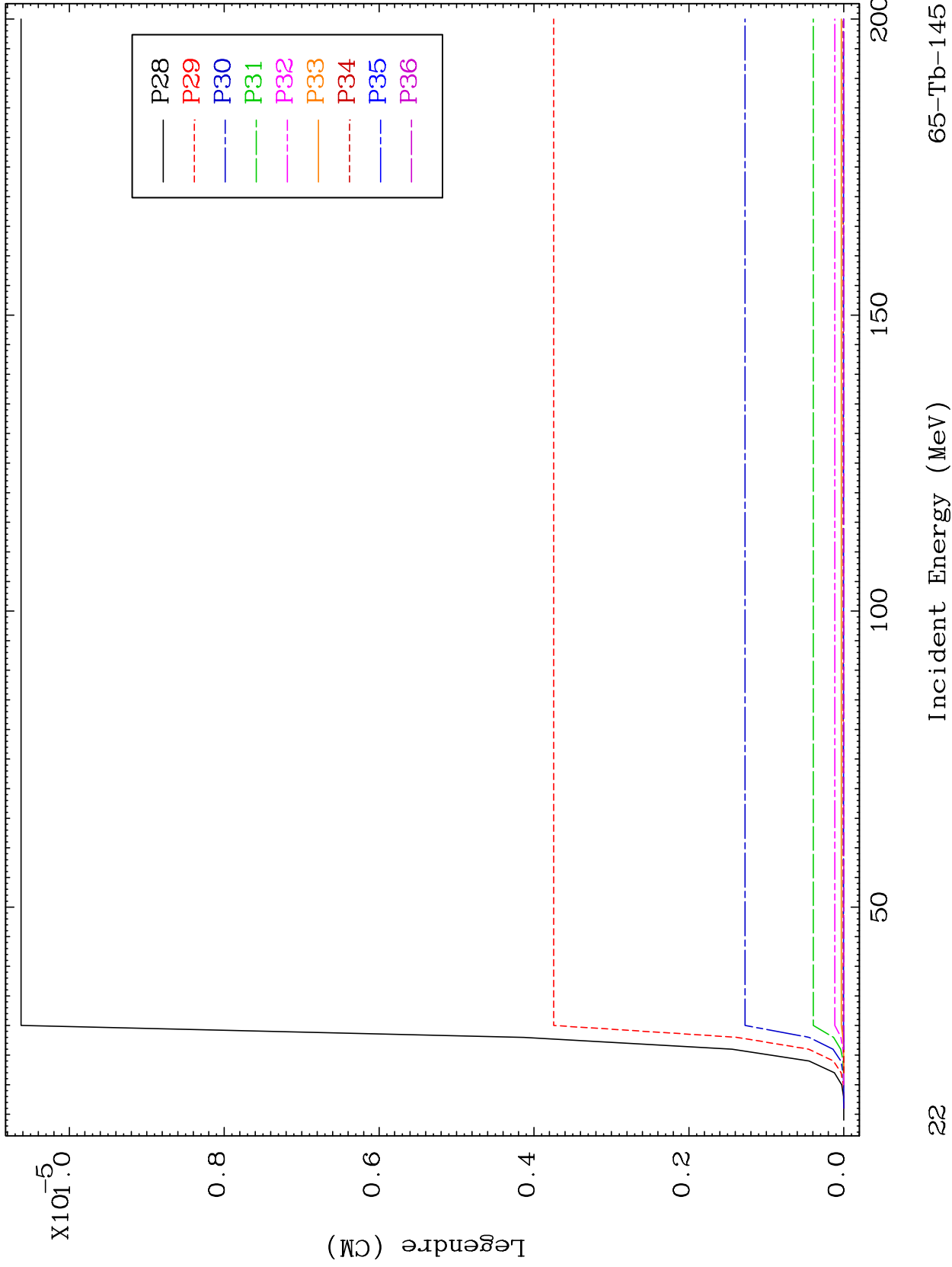
65-Tb-145



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179.3 keV (n,n') Level  
Legendre Coefficients

65-Tb-145



22

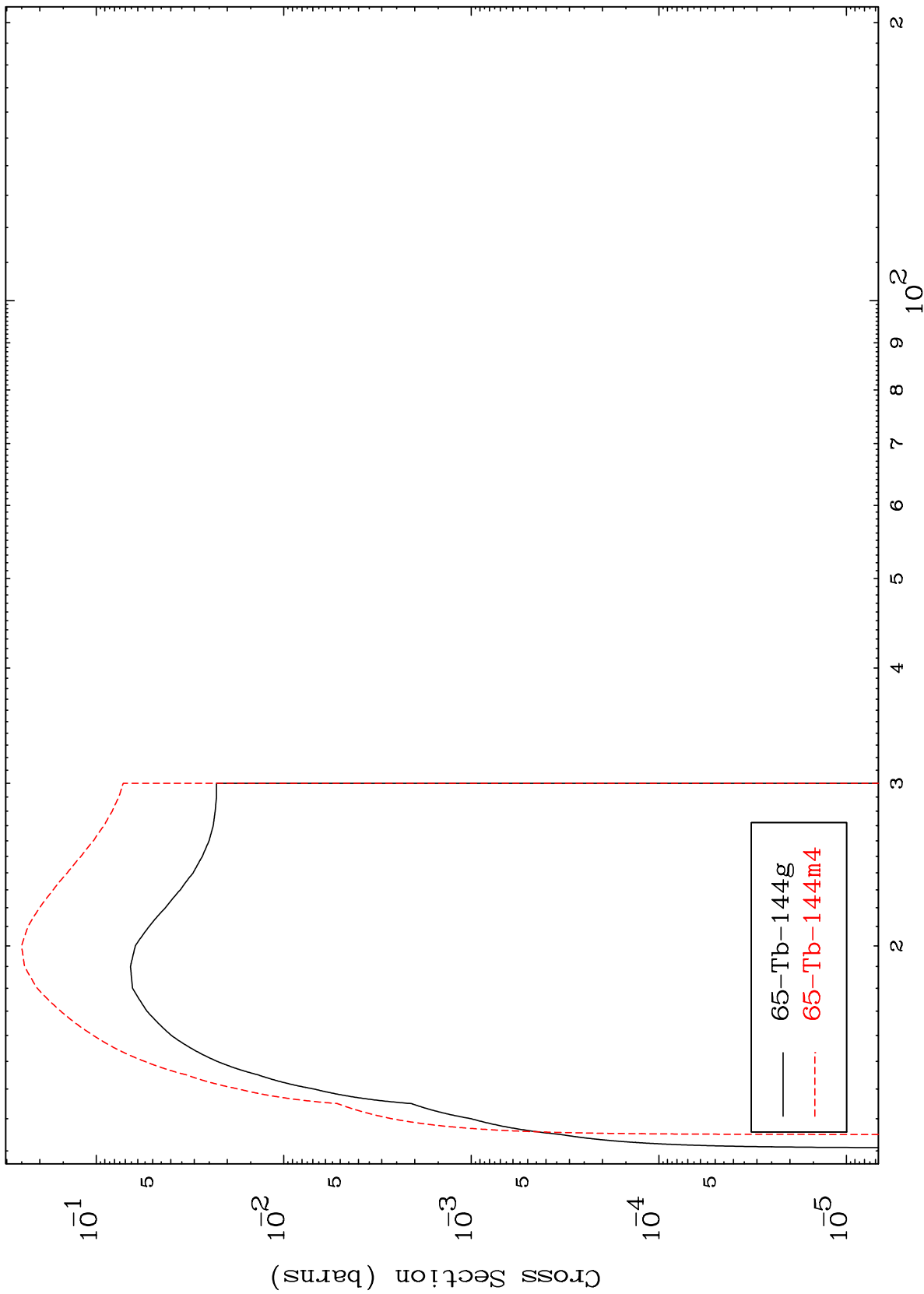
Incident Energy (MeV)

65-Tb-145

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65-Tb-145

(n,2n)  
Radionuclide Production Cross Section



65-Tb-145

Incident Energy (MeV)

23

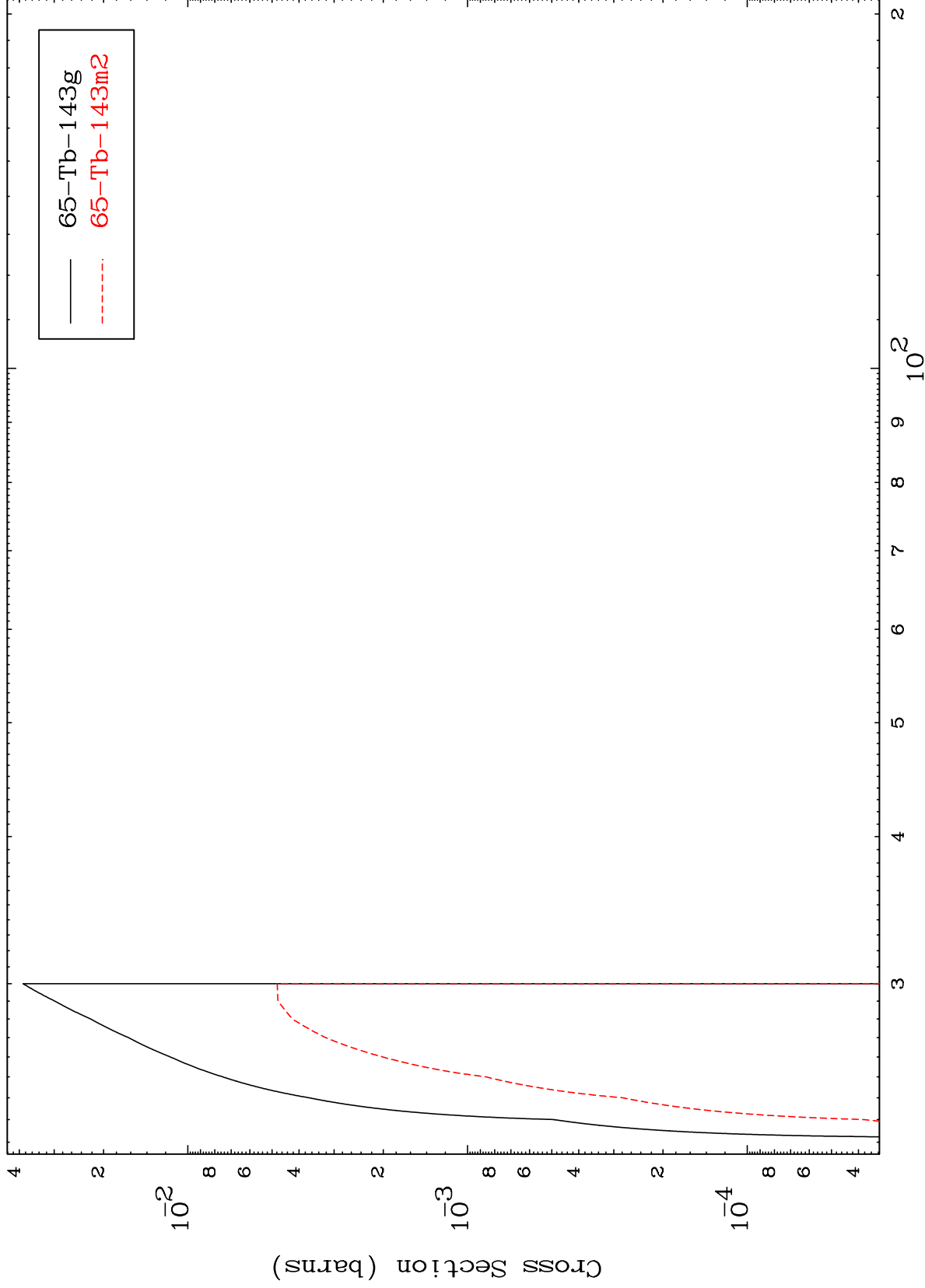


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(n,3n)

65-Tb-145

Radionuclide Production Cross Section



24

Incident Energy (MeV)

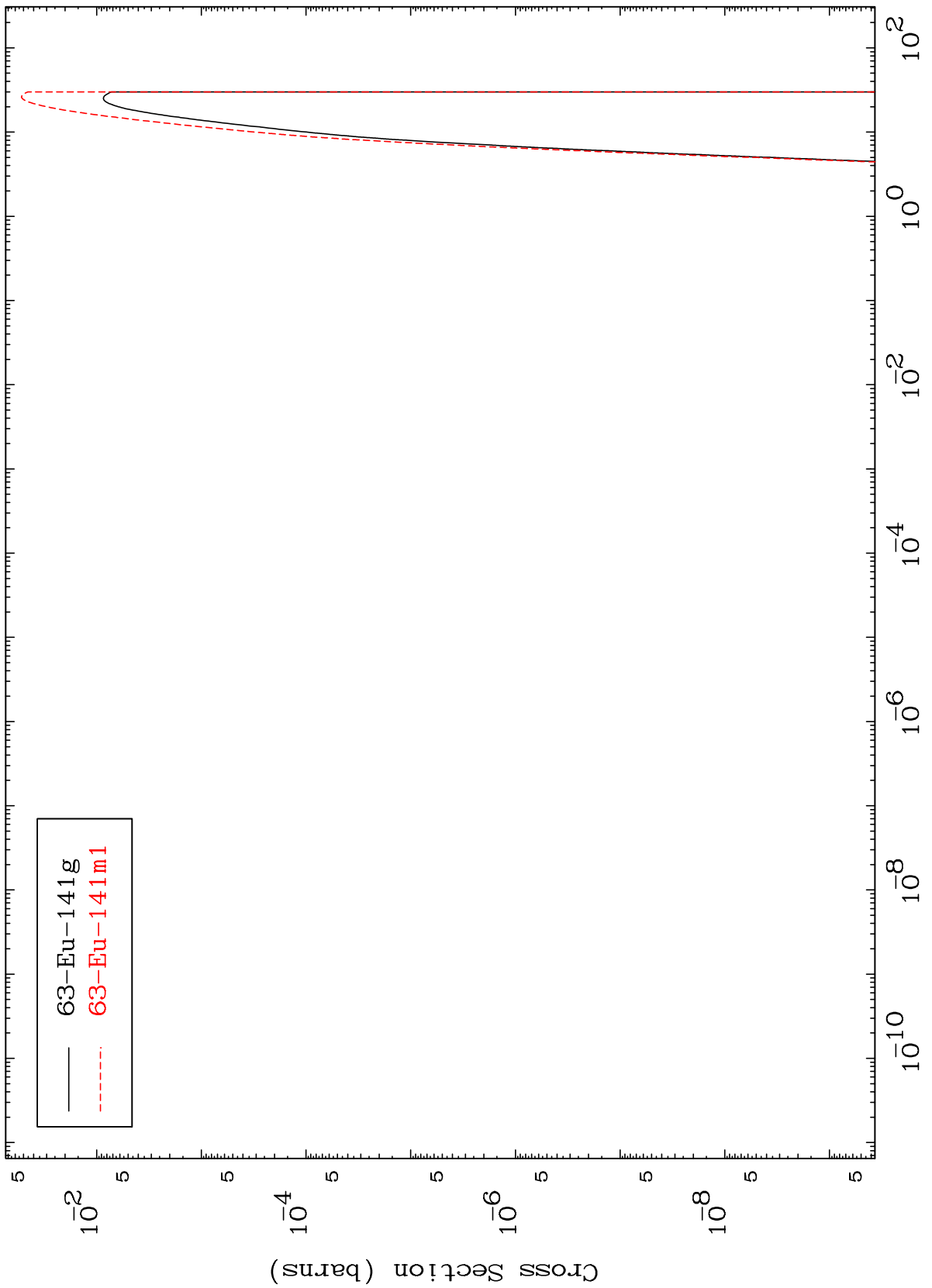
65-Tb-145

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

65-Tb-145

Radionuclide Production Cross Section



25

Incident Energy (MeV)

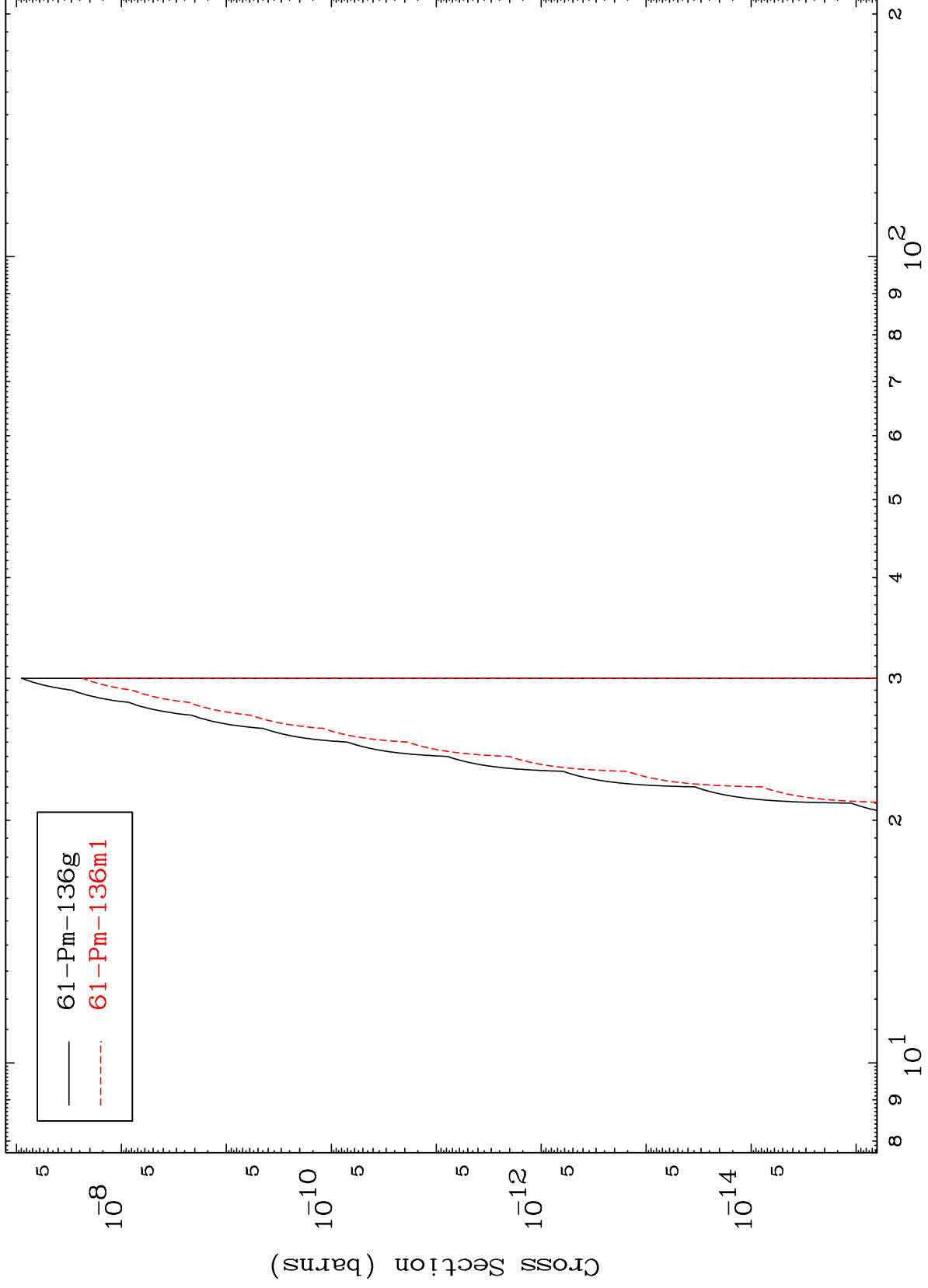
65-Tb-145

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(n,2n) 2α

65-Tb-145

Radionuclide Production Cross Section



61-Pm-136g  
61-Pm-136m1

26

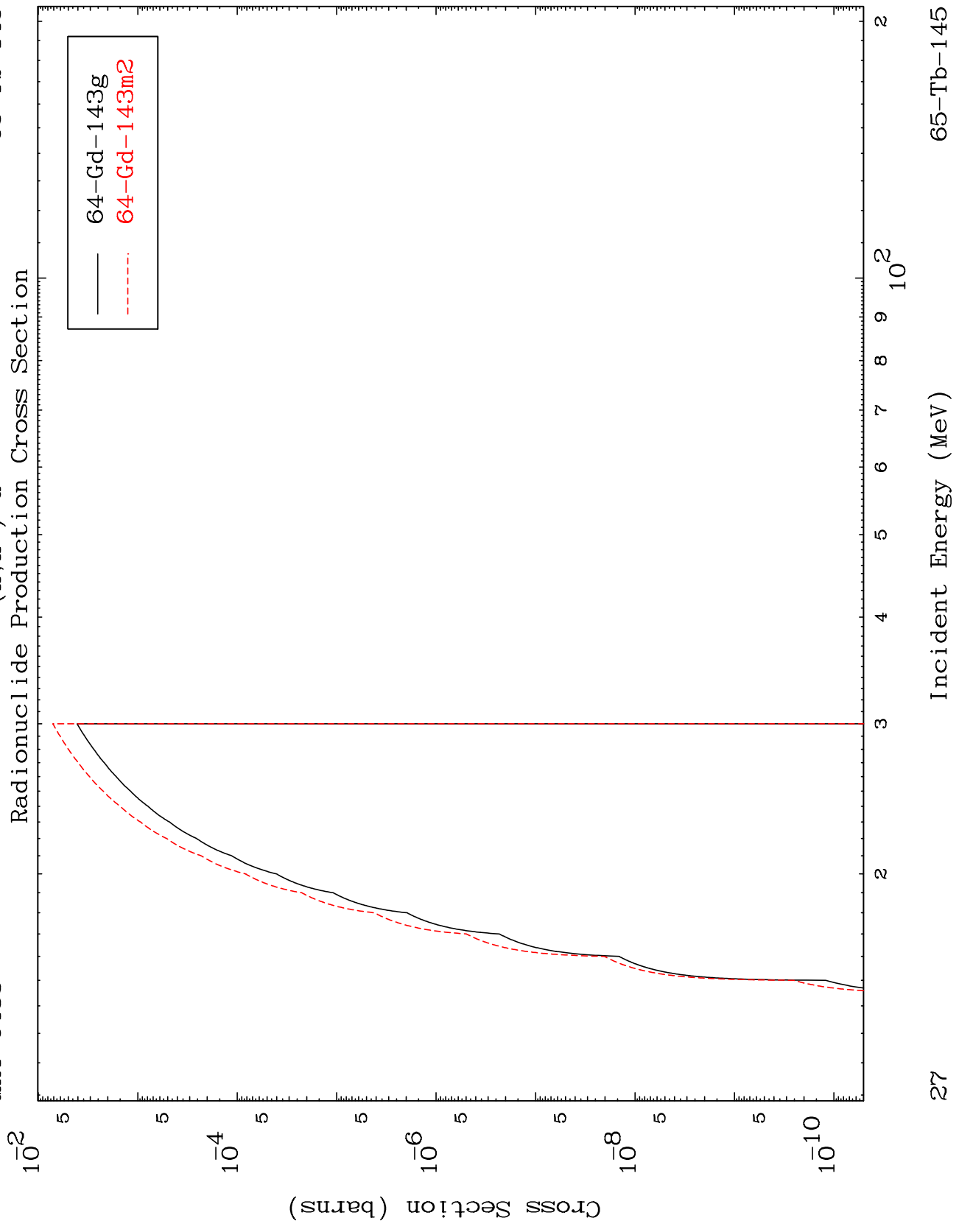
Incident Energy (MeV)

65-Tb-145

MAT 6483

(n,n') d

65-Tb-145

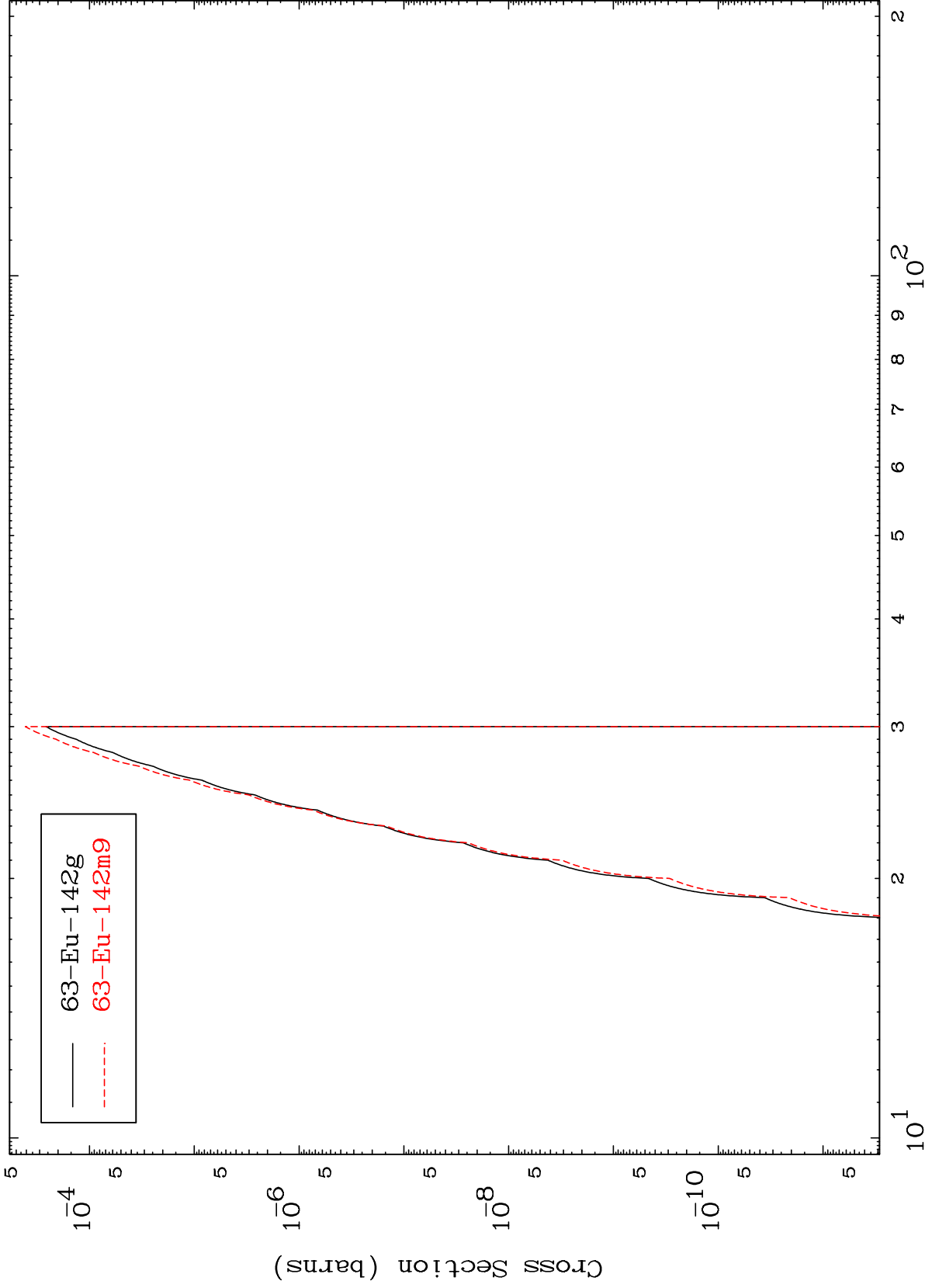


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(n,n') He-3

65-Tb-145

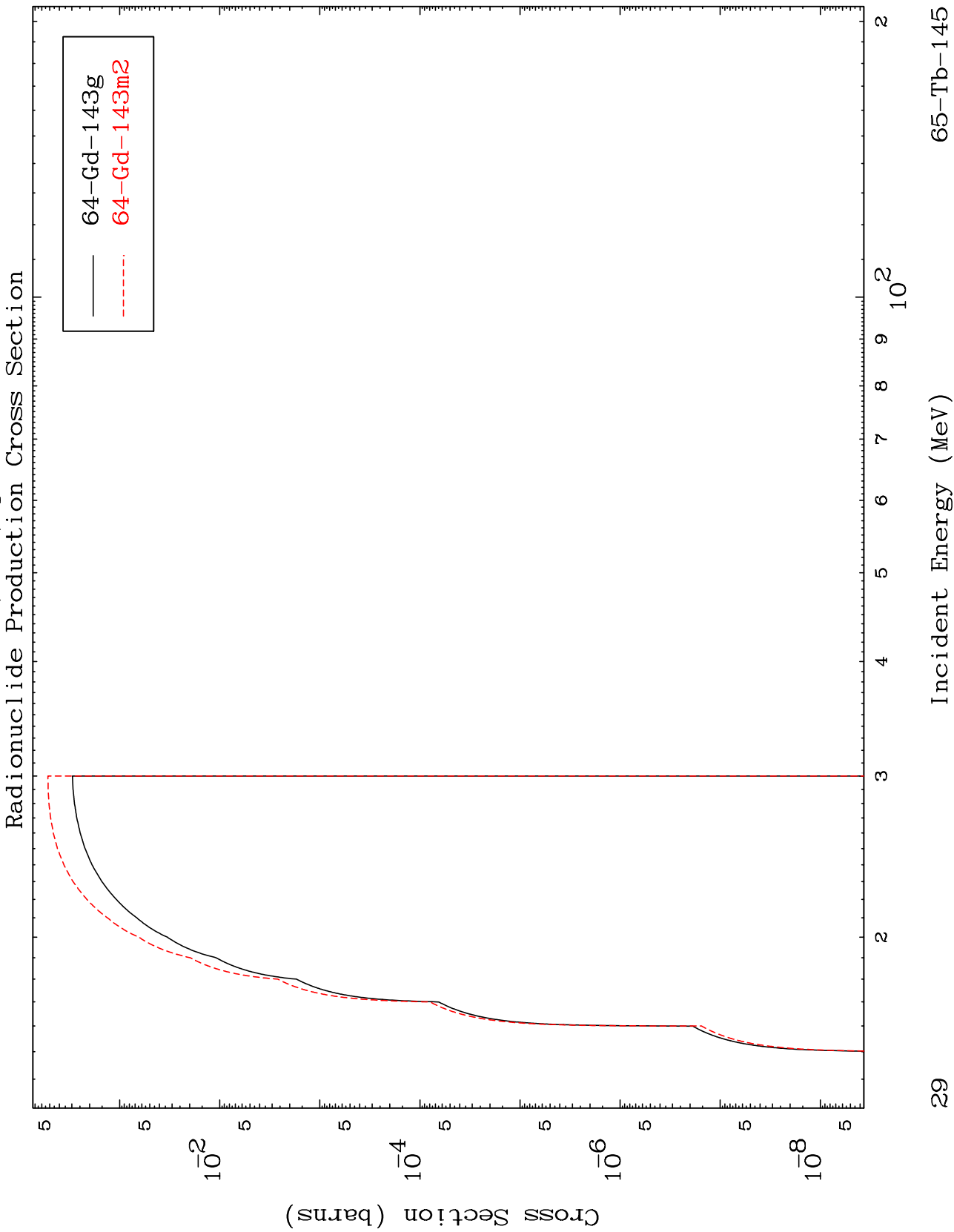
Radionuclide Production Cross Section



Incident Energy (MeV)

65-Tb-145

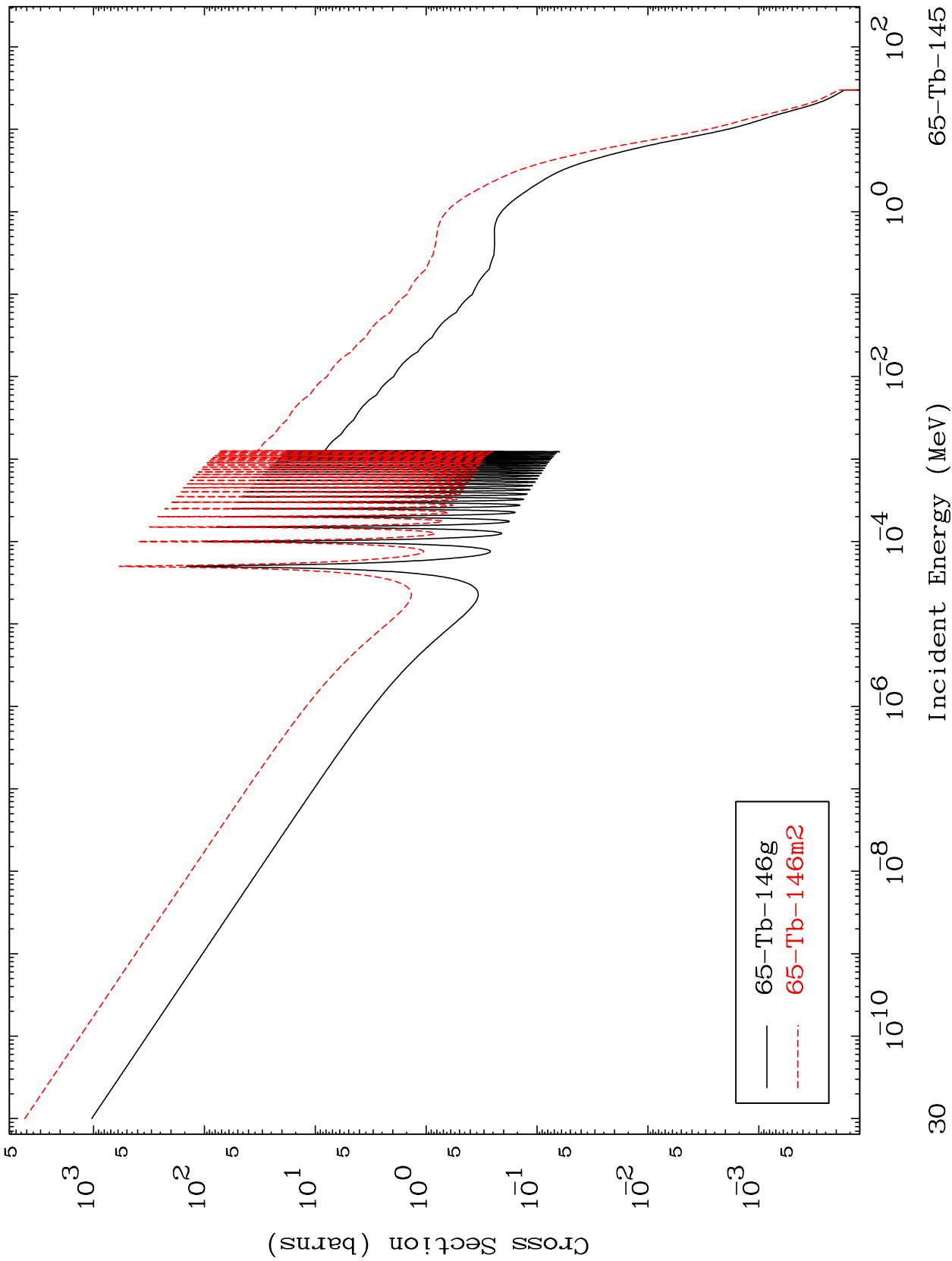
28



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65-Tb-145

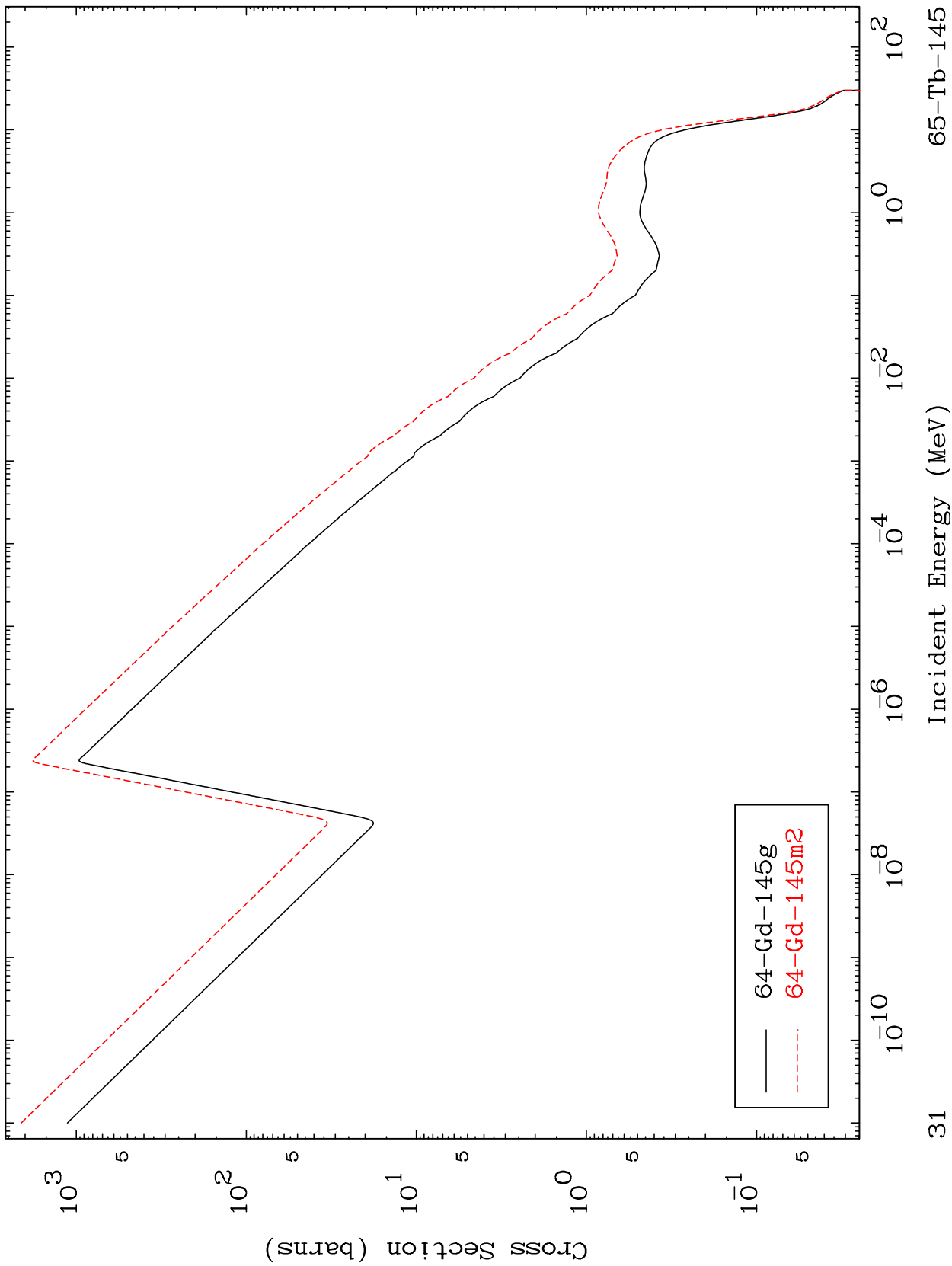
$(n, \gamma)$   
Radionuclide Production Cross Section



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65-Tb-145

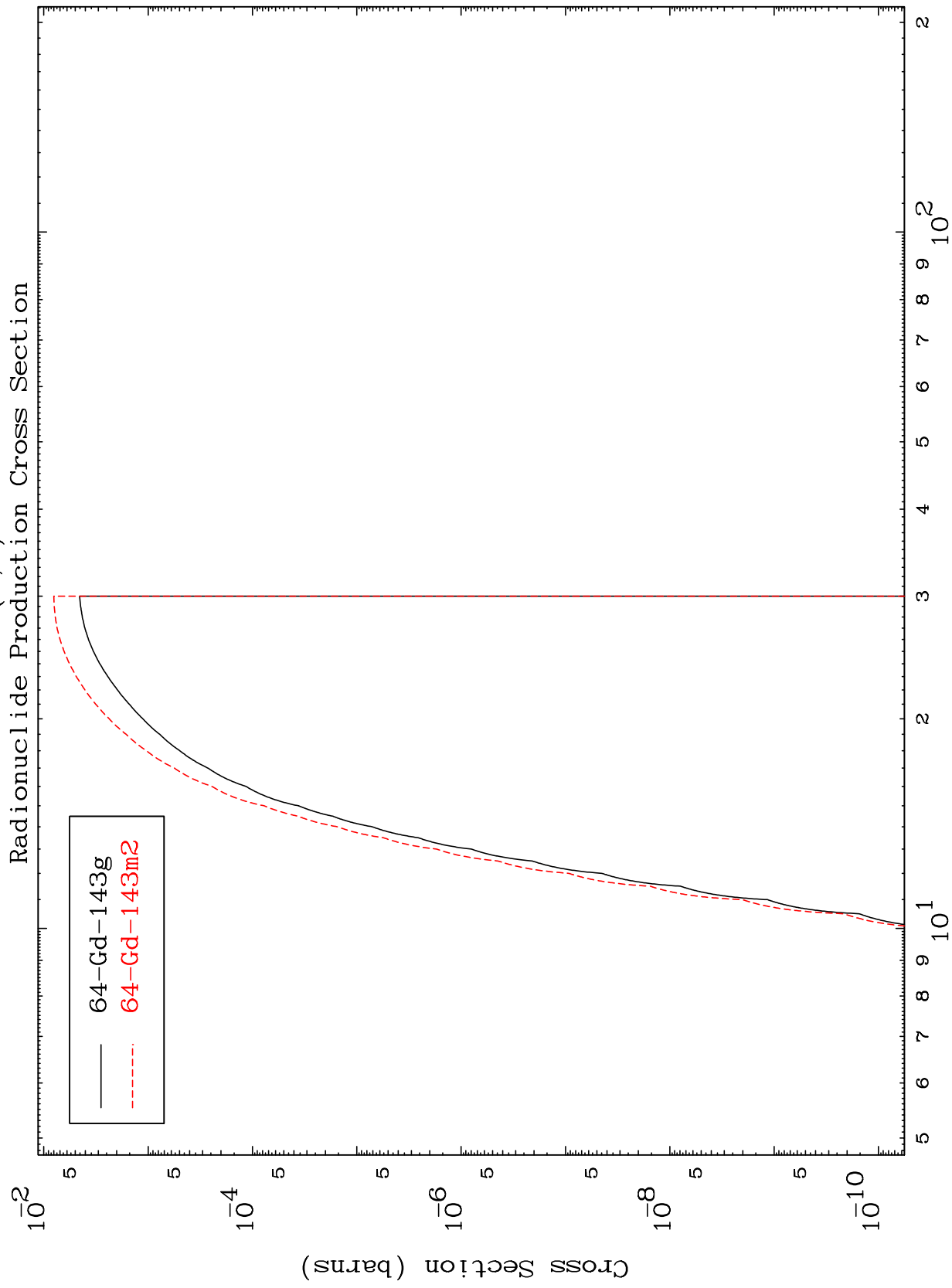
(n,p)  
Radionuclide Production Cross Section





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65-Tb-145



65-Tb-145

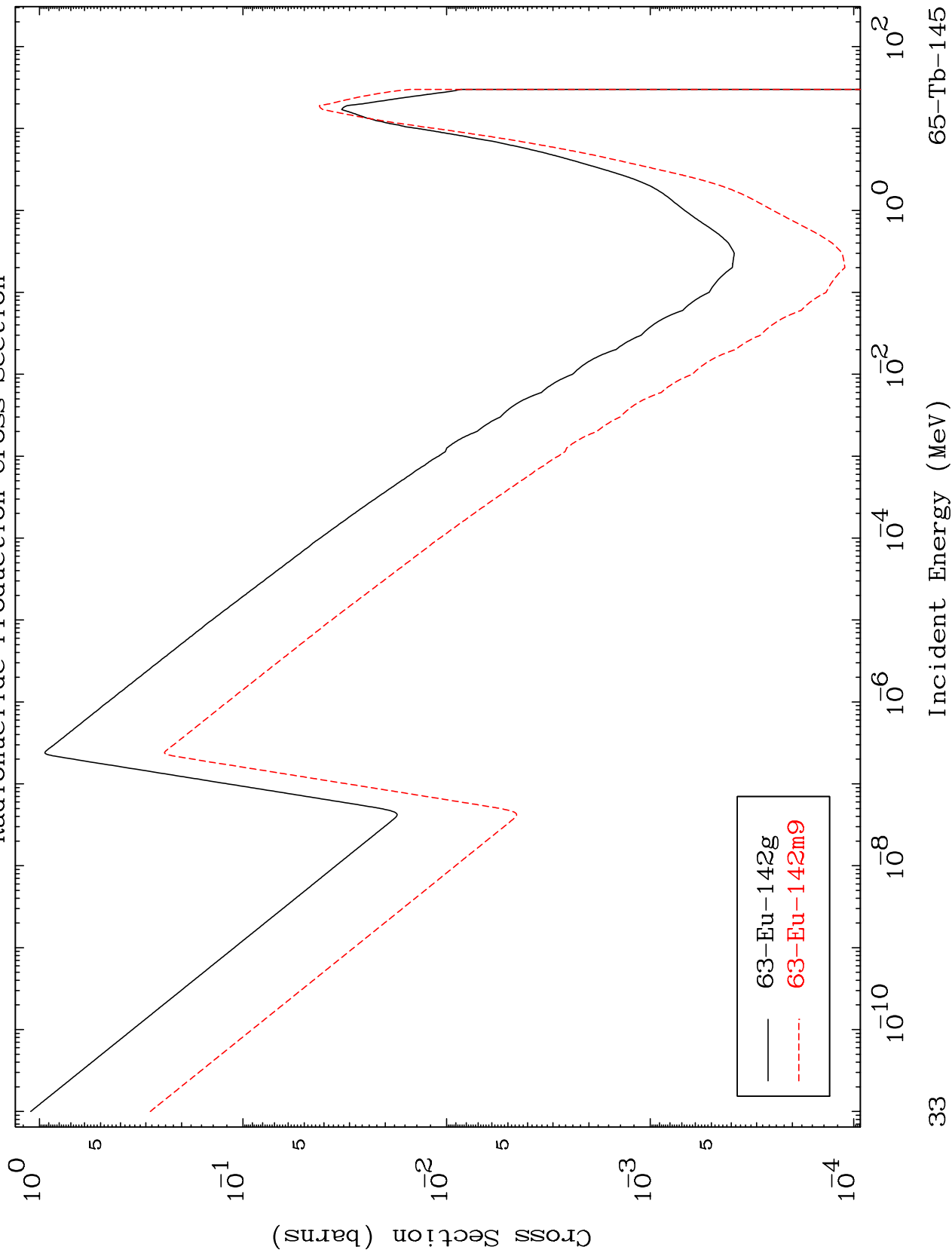
Incident Energy (MeV)

32

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65-Tb-145

$(n, \alpha)$   
Radionuclide Production Cross Section

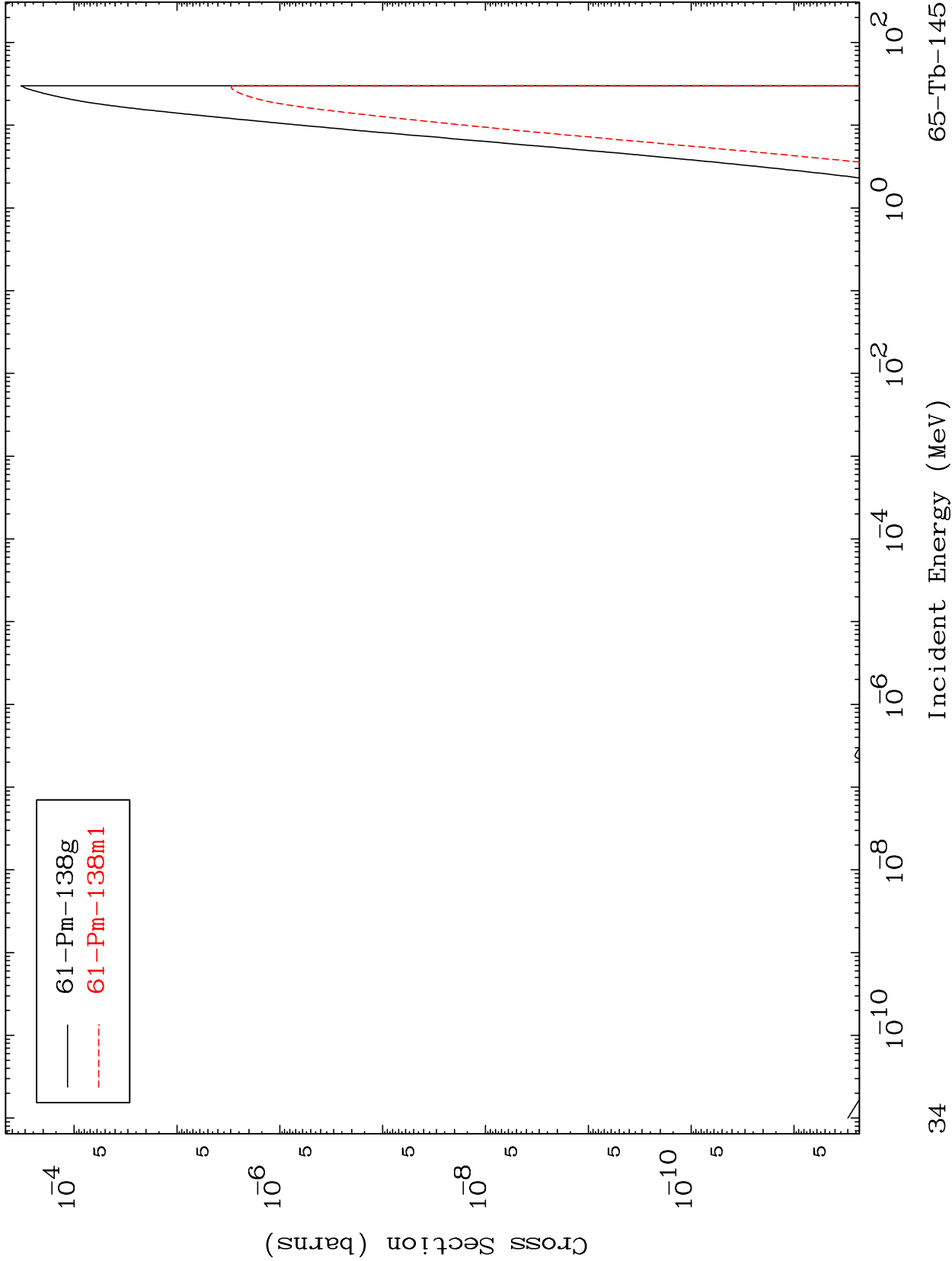


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(n,2α)

65-Tb-145

Radionuclide Production Cross Section



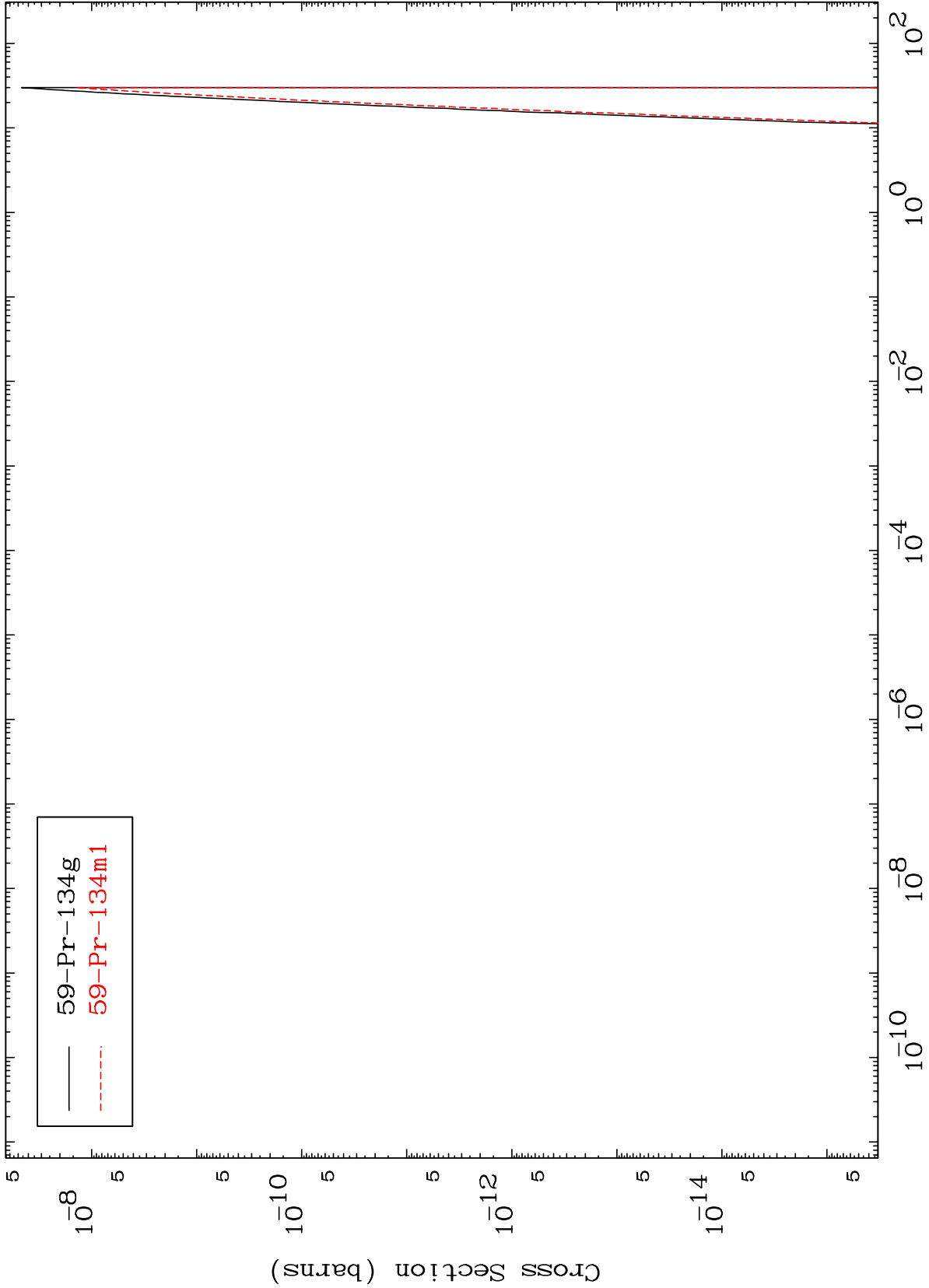
— 61-Pm-138g  
- - - 61-Pm-138m1

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(n, 3α)

65-Tb-145

Radionuclide Production Cross Section



59-Pr-134g  
59-Pr-134m1

35

Incident Energy (MeV)

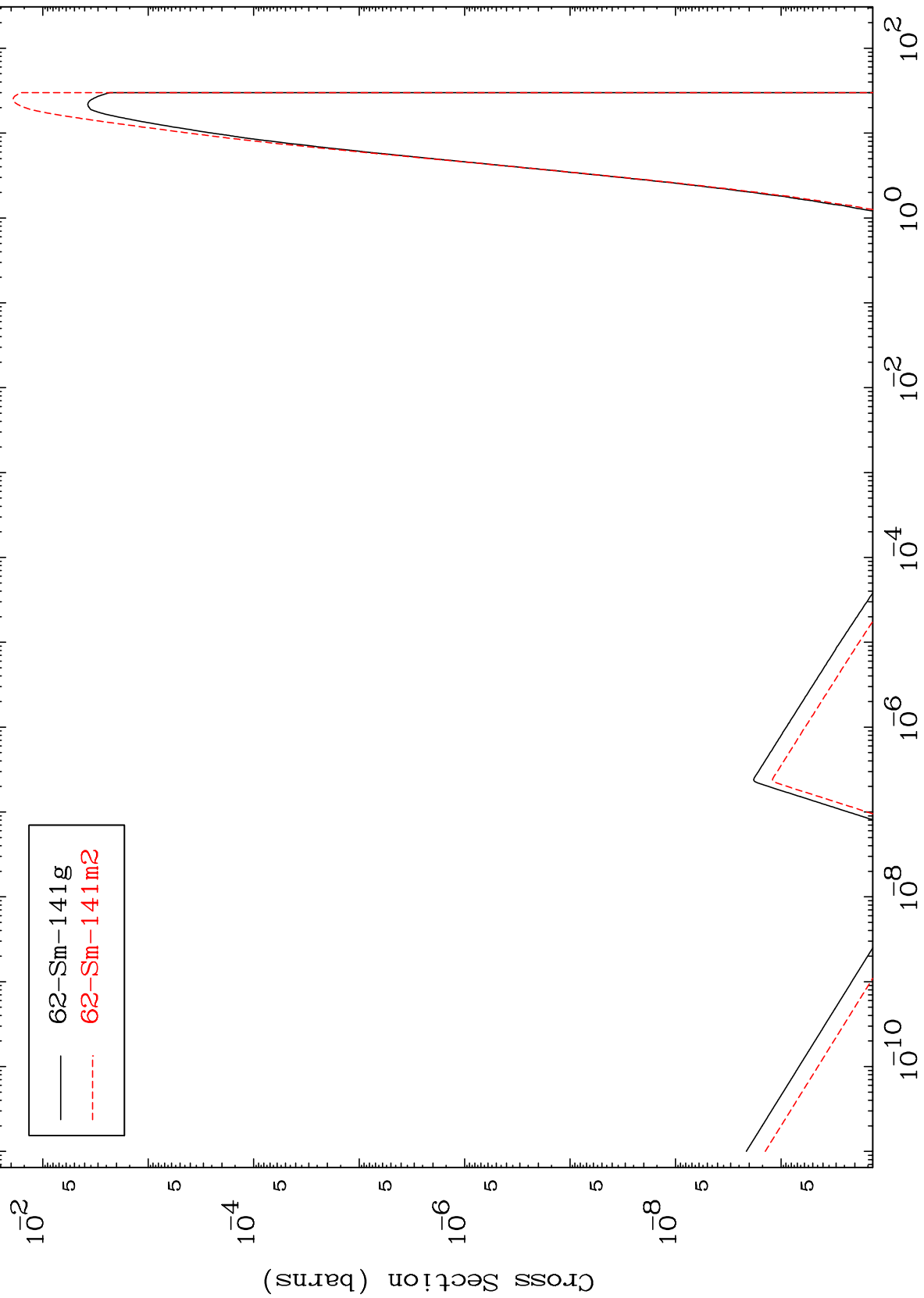
65-Tb-145

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(n,p)  $\alpha$

65-Tb-145

Radionuclide Production Cross Section

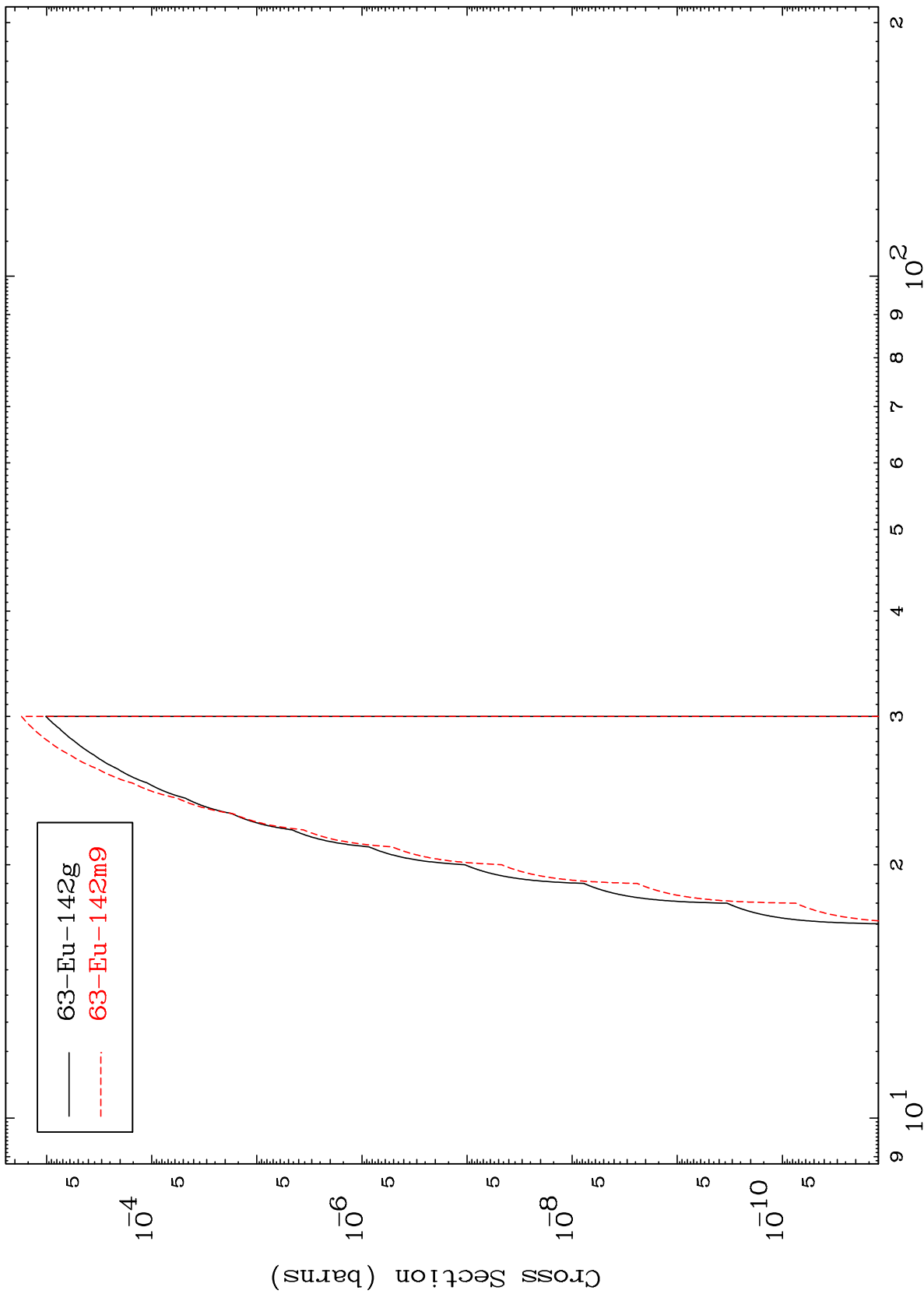


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(n,p) t

65-Tb-145

Radionuclide Production Cross Section



Incident Energy (MeV)

65-Tb-145

37