

Program EVALPLOT  
(Version 2021-1)

by

Dermott E. Cullen  
(Present Contact Information)

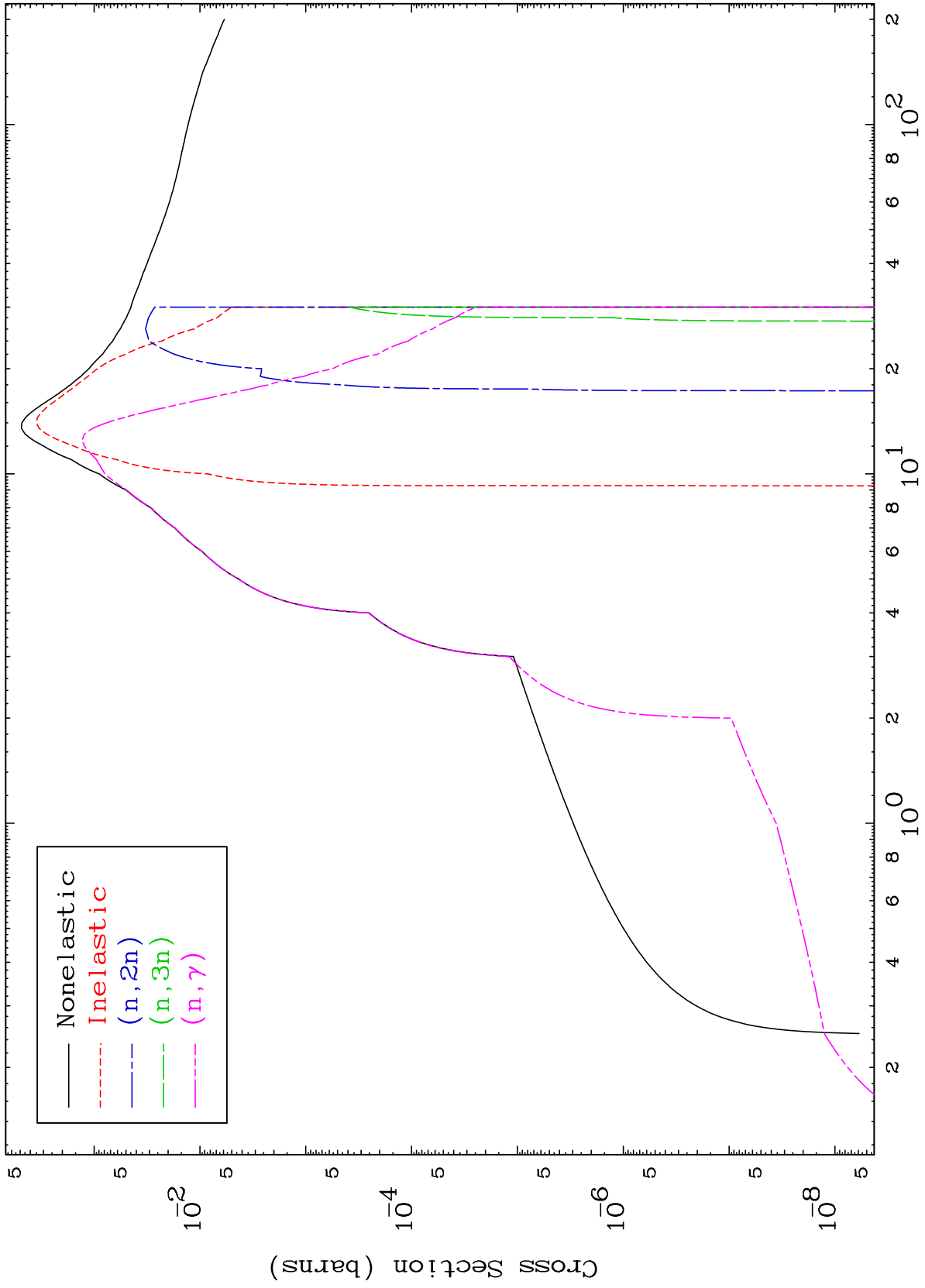
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Web:redcullen1.net/HOMEPAGE.NEW

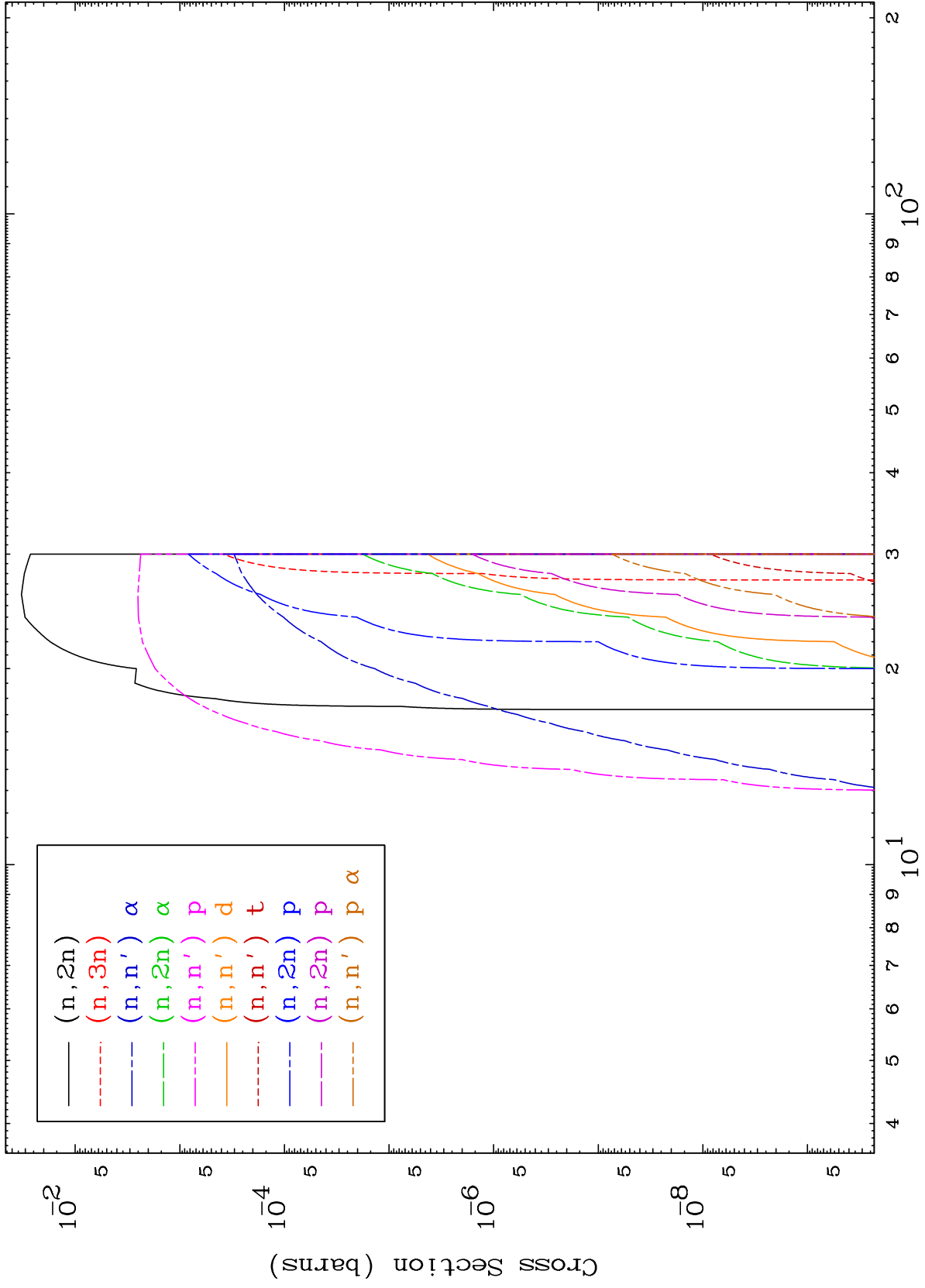
Press Mouse Button to Start



MAT 8290

Photon Neutron Absorption  
0 Kelvin Cross Sections

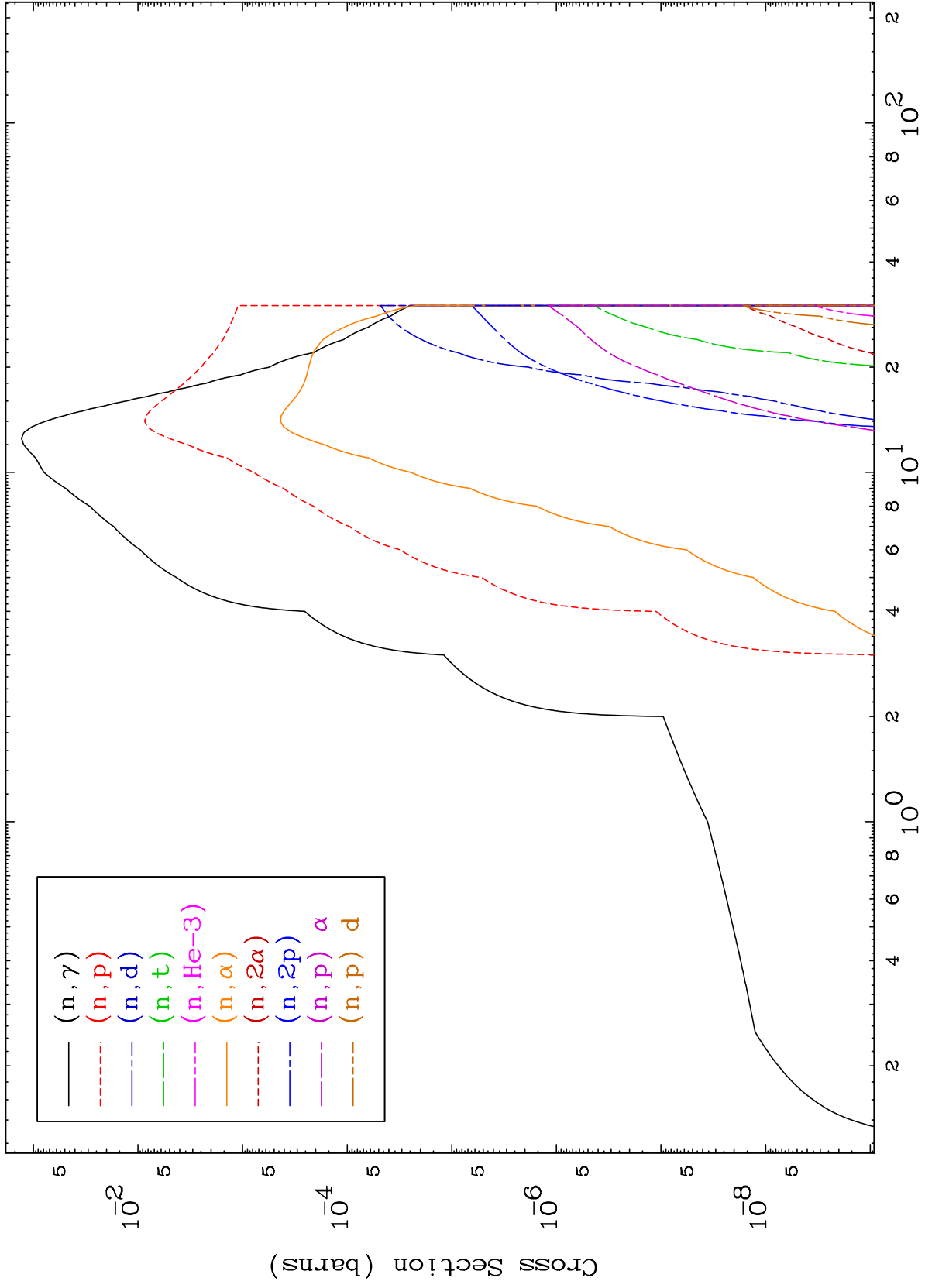
83-Bi-197m



2

Incident Energy (MeV)

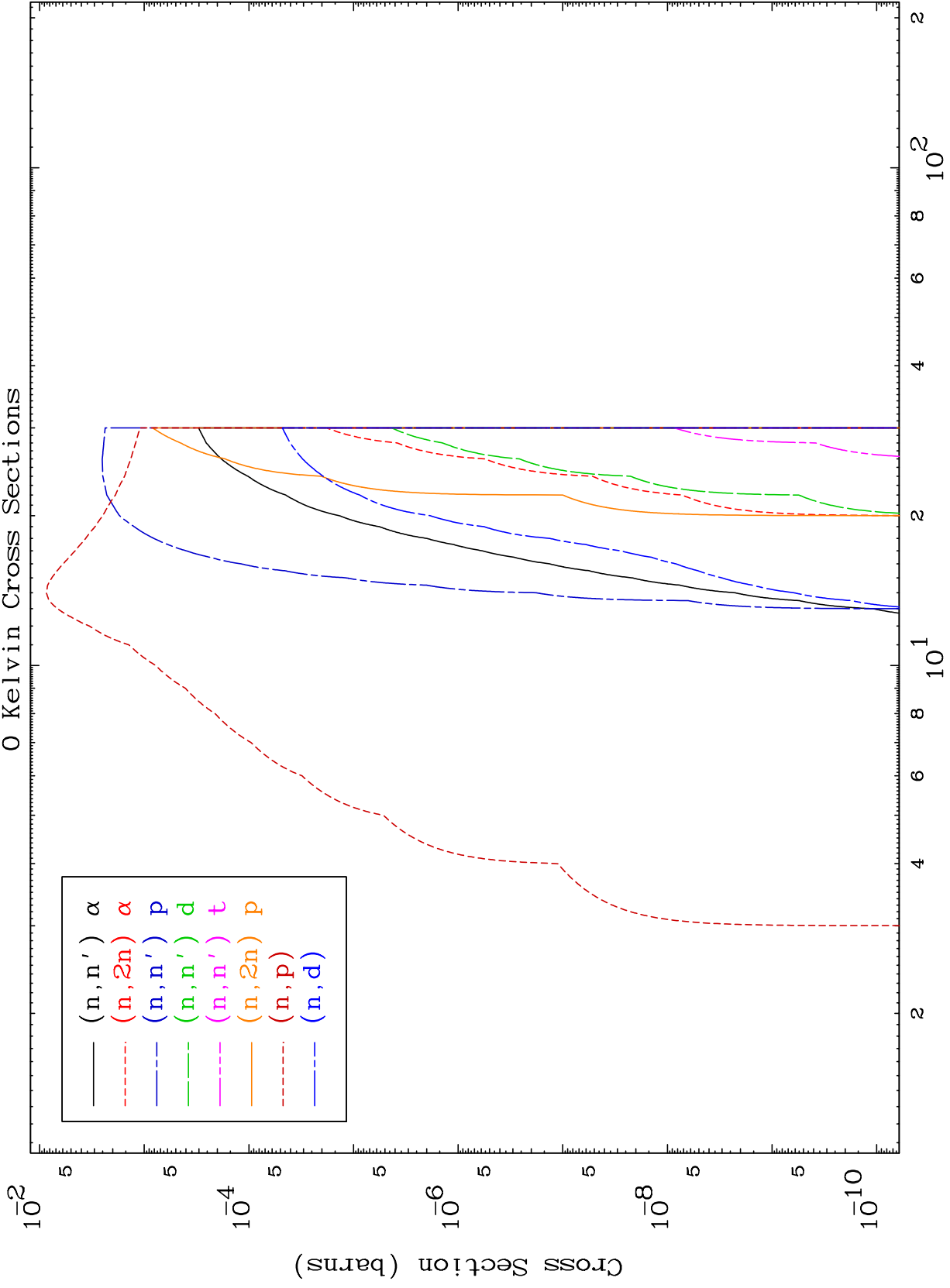
83-Bi-197m



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Photon Charged Particle  
0 Kelvin Cross Sections

83-Bi-197m



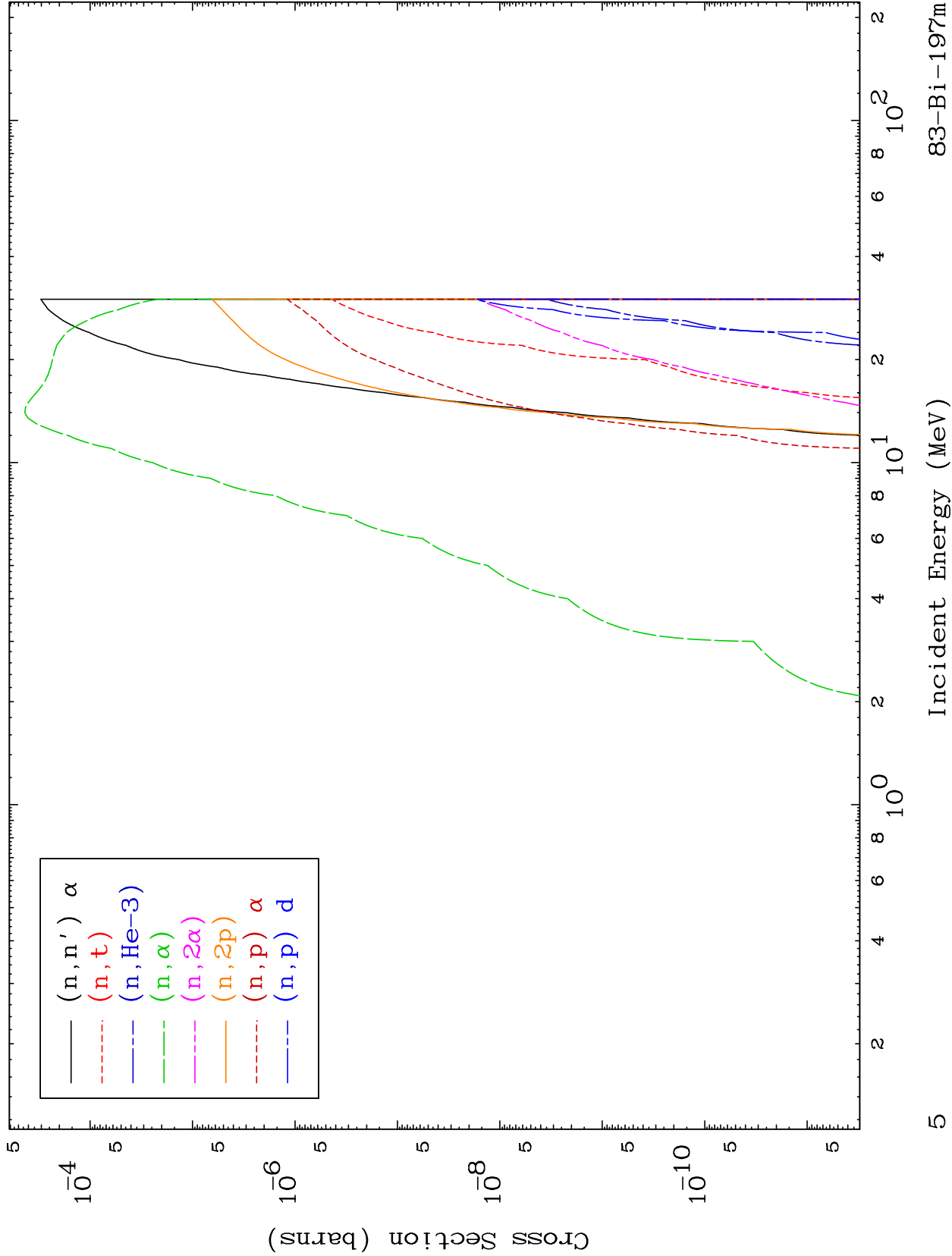
83-Bi-197m

Incident Energy (MeV)

MAT 8290

Photon Charged Particle  
0 Kelvin Cross Sections

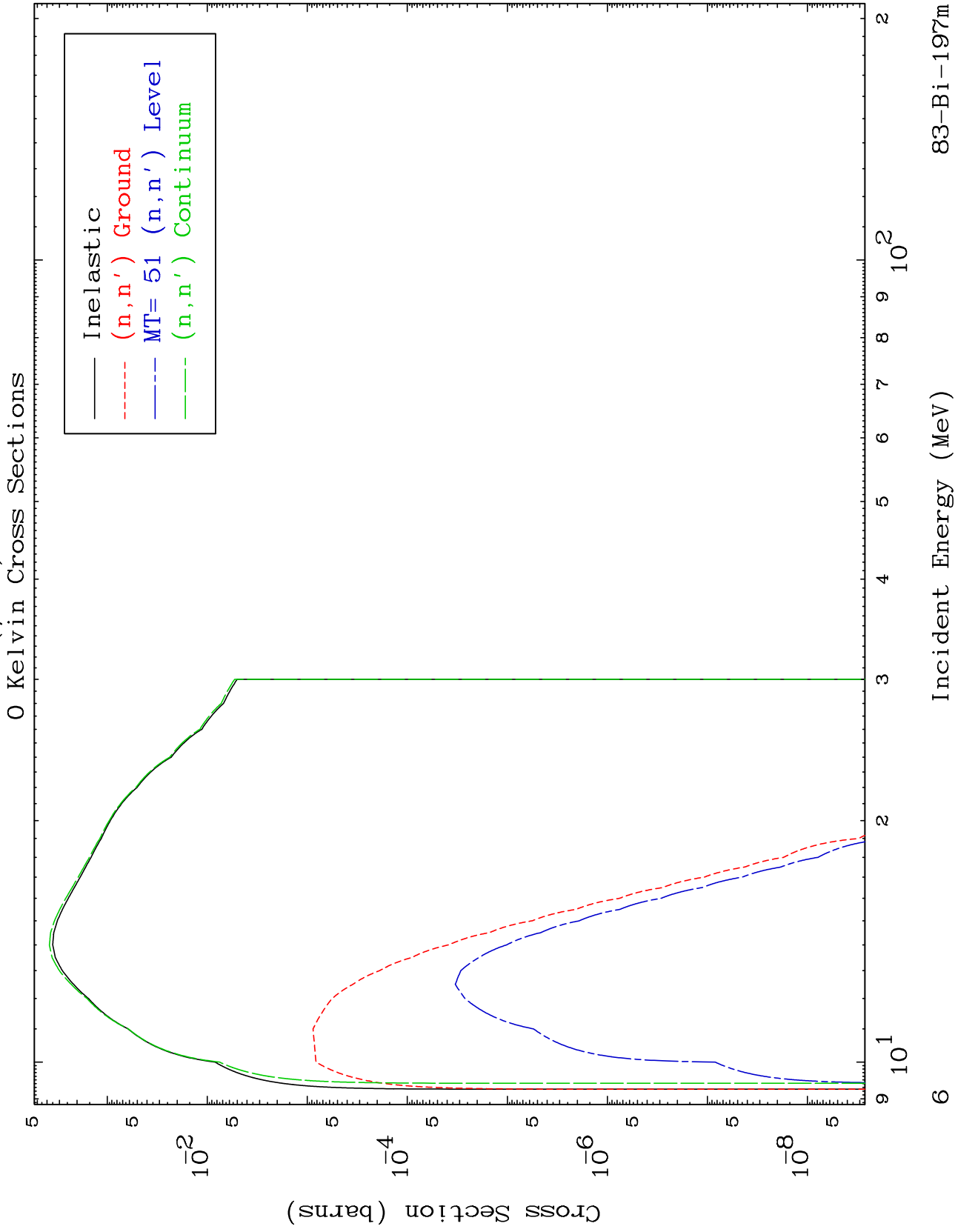
83-Bi-197m



MAT 8290

( $\gamma, n'$ ) Levels

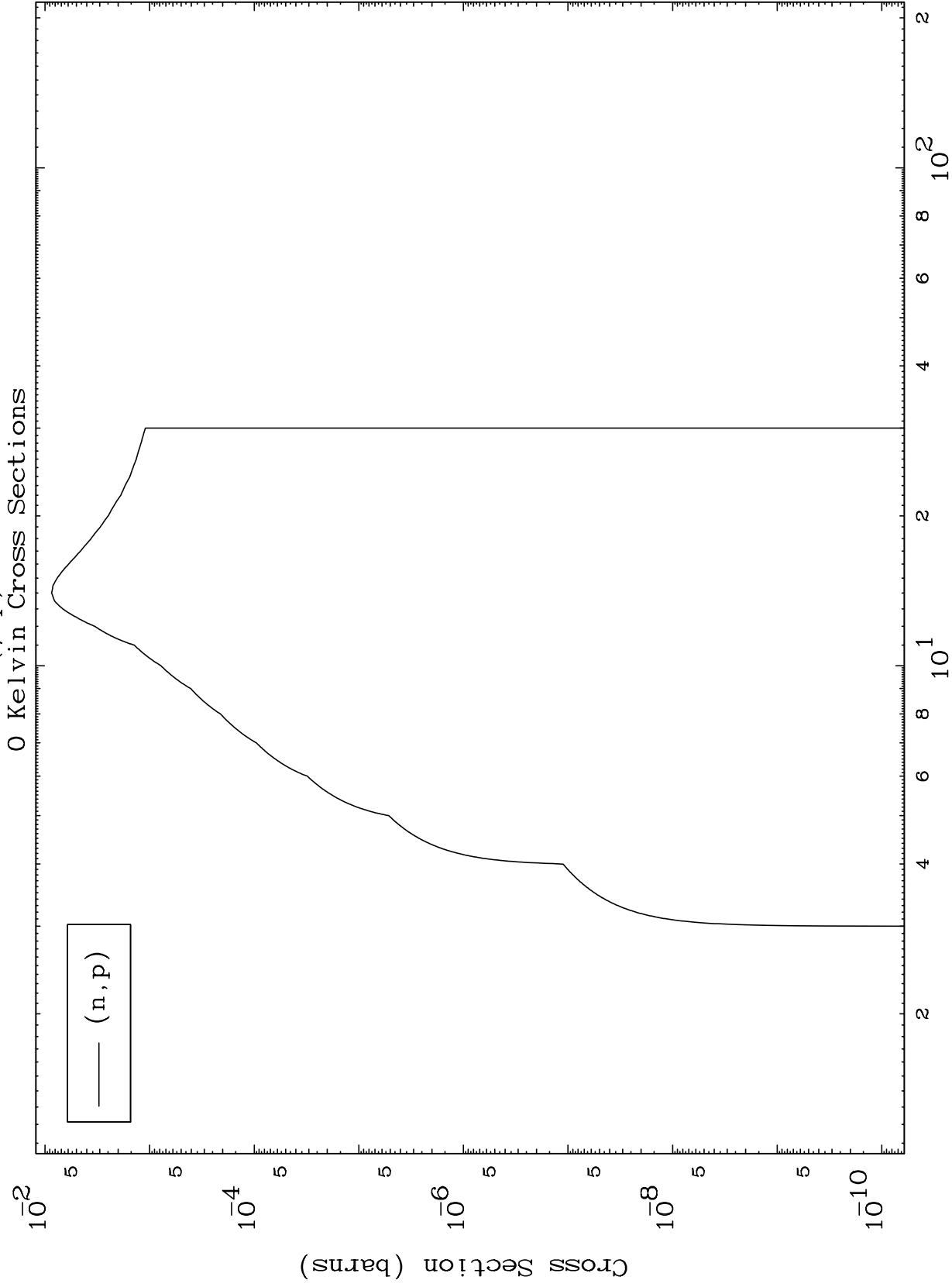
83-Bi-197m



MAT 8290

( $\gamma, p$ ) Levels

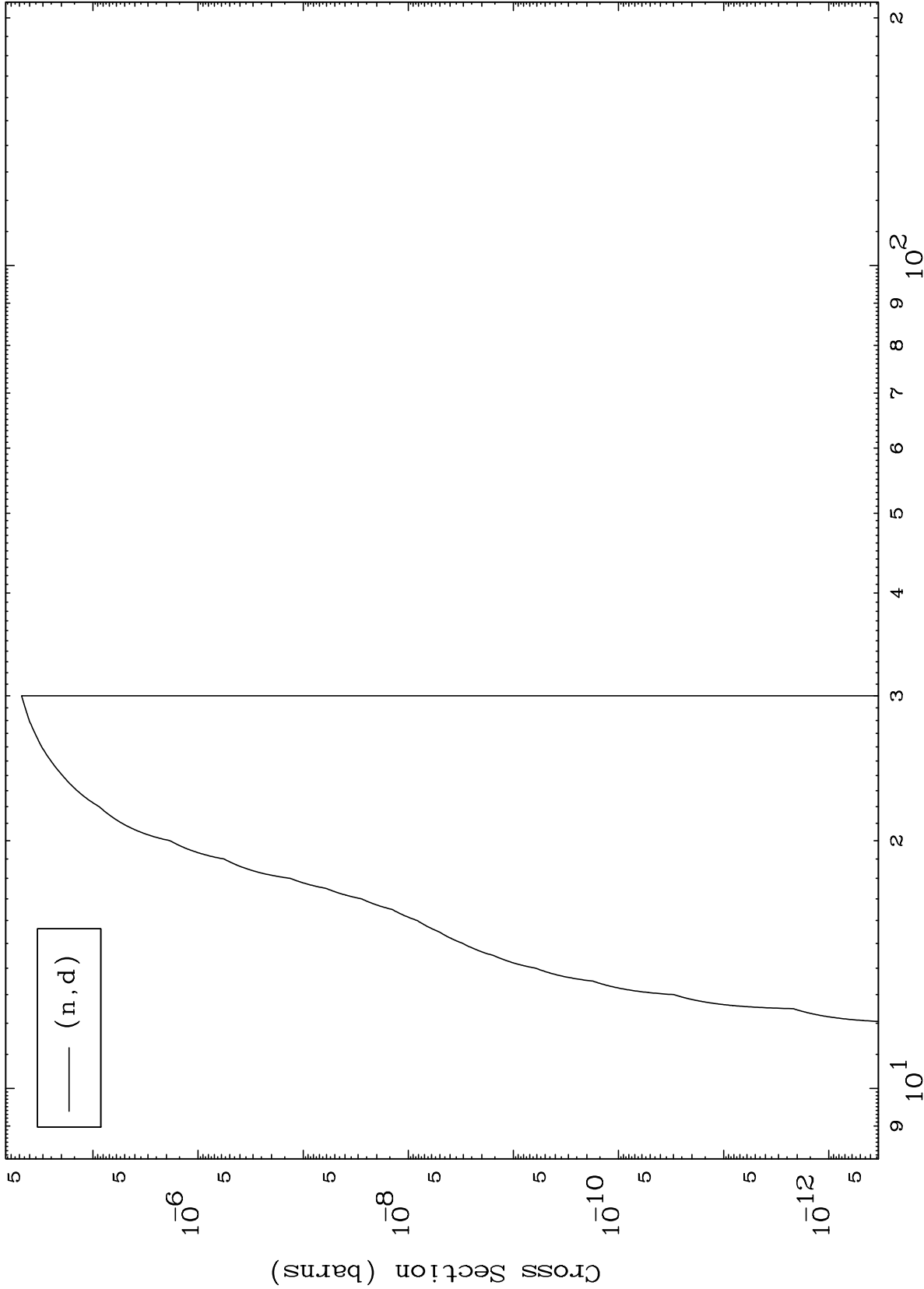
83-Bi-197m



MAT 8290

( $\gamma, d$ ) Levels  
0 Kelvin Cross Sections

83-Bi-197m



8

Incident Energy (MeV)

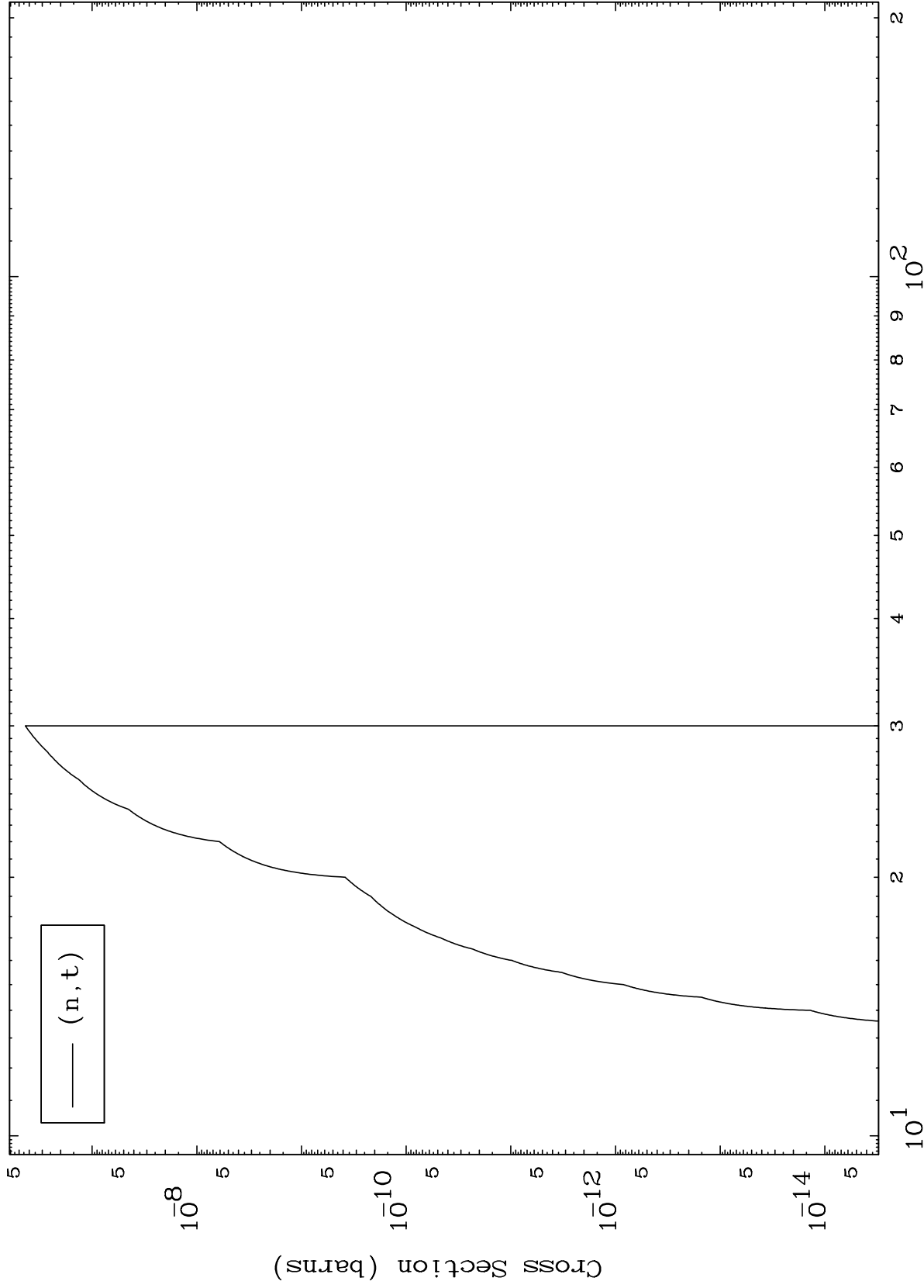
83-Bi-197m

MAT 8290

( $\gamma, t$ ) Levels

83-Bi-197m

0 Kelvin Cross Sections



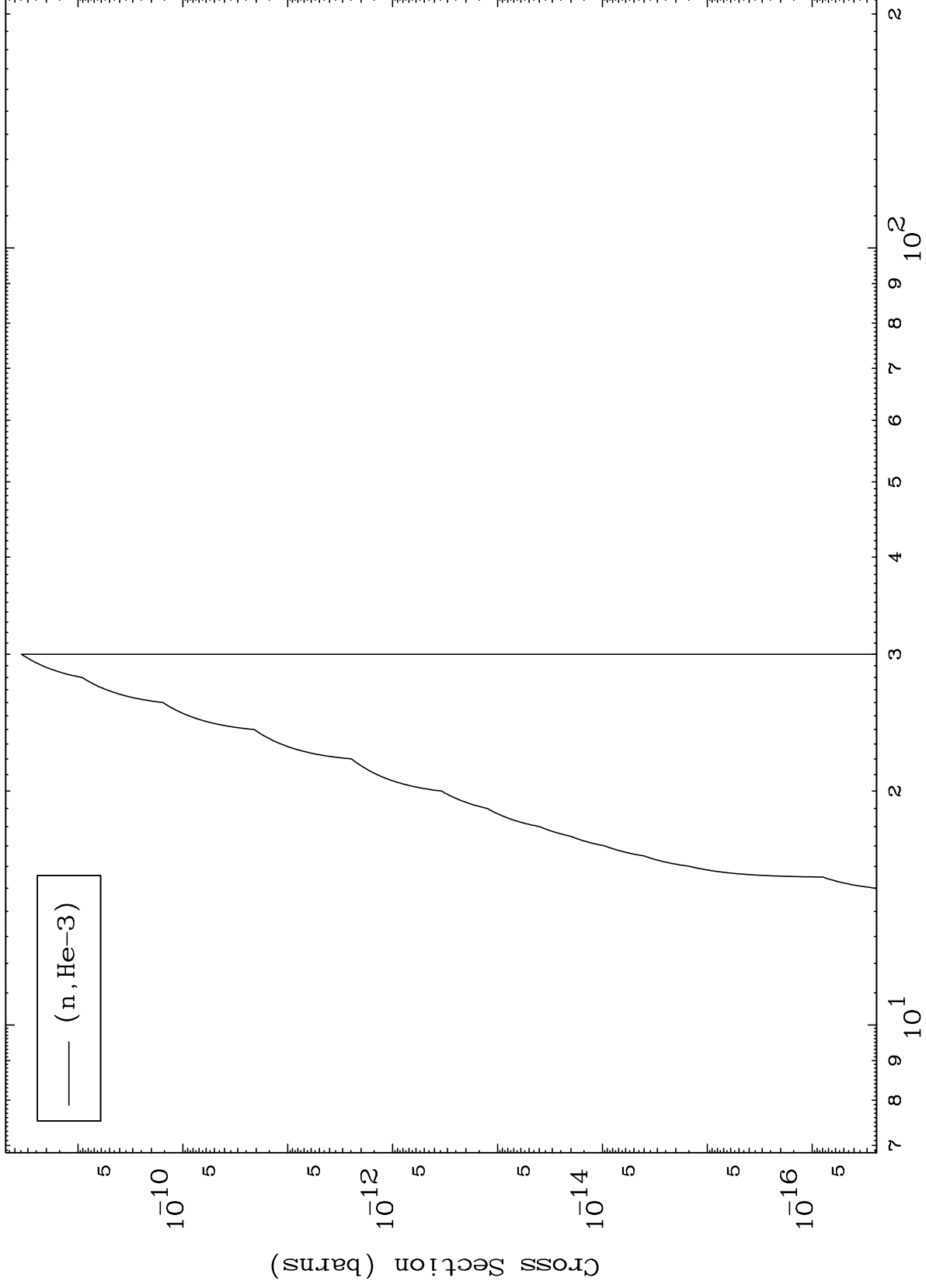
Incident Energy (MeV)

83-Bi-197m

MAT 8290

( $\gamma, \text{He}3$ ) Levels  
0 Kelvin Cross Sections

83-Bi-197m



10

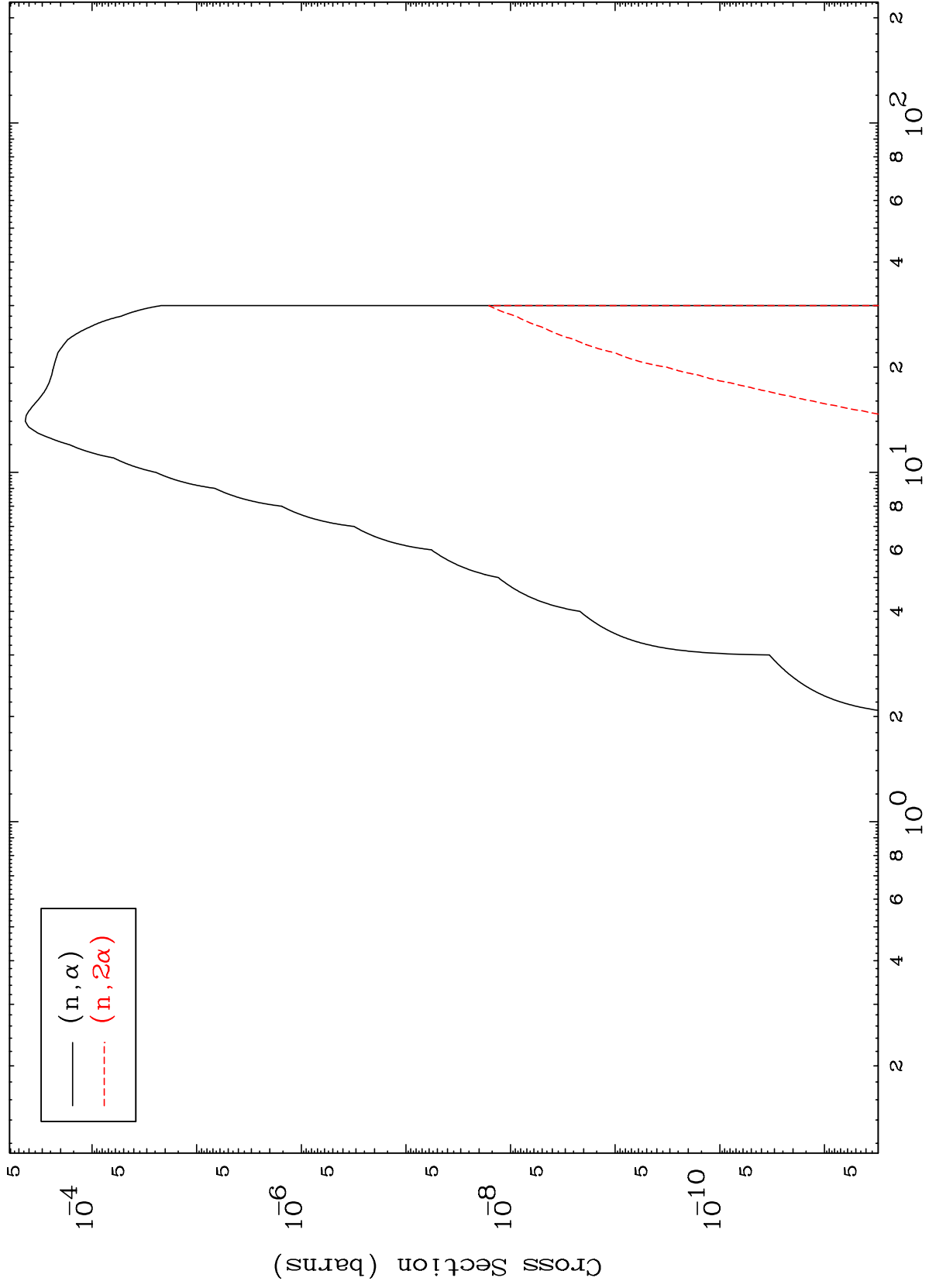
Incident Energy (MeV)

83-Bi-197m

MAT 8290

( $\gamma, \alpha$ ) Levels  
0 Kelvin Cross Sections

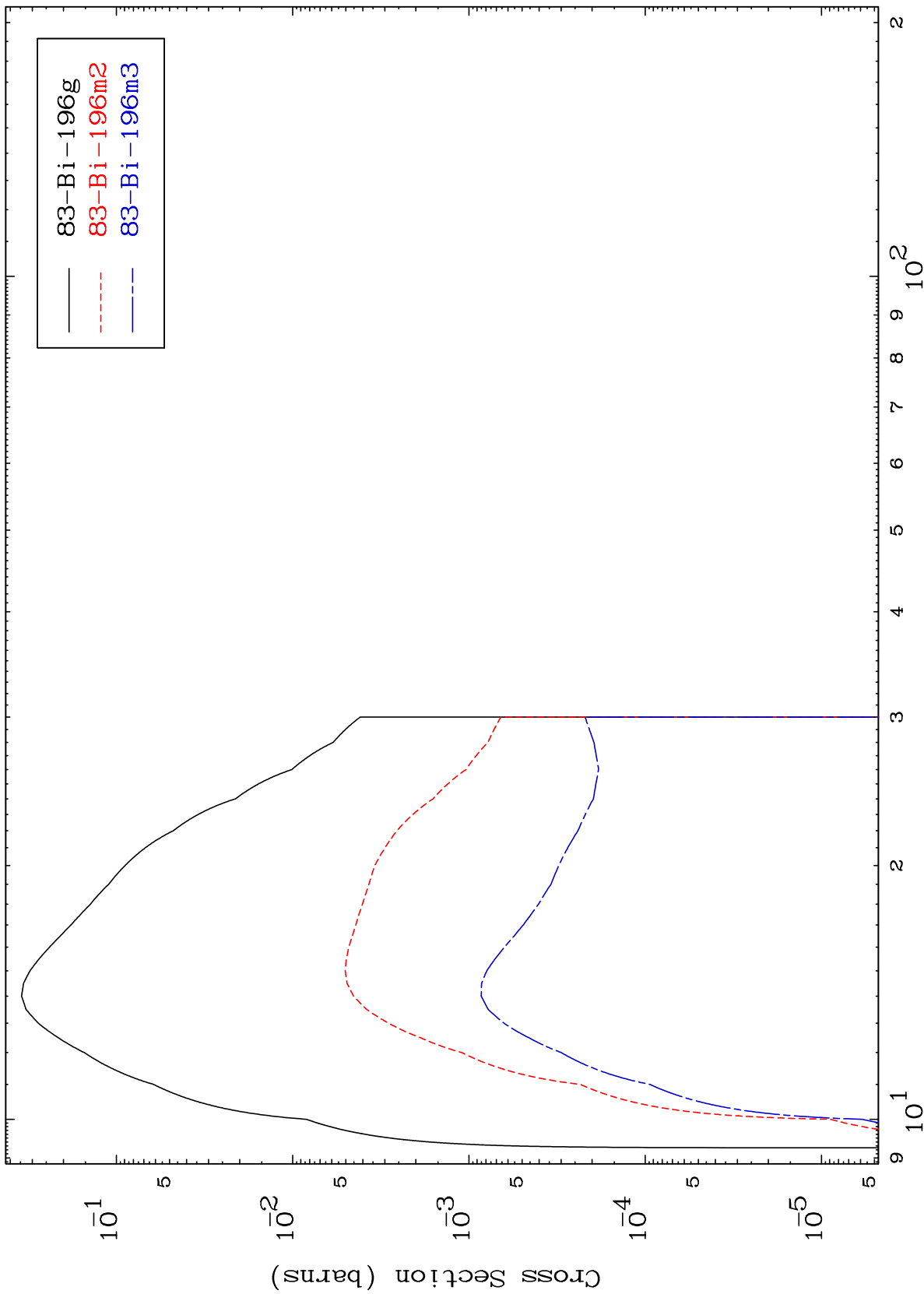
83-Bi-197m



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83-Bi-197m

Inelastic  
Radionuclide Production Cross Section



83-Bi-197m

Incident Energy (MeV)

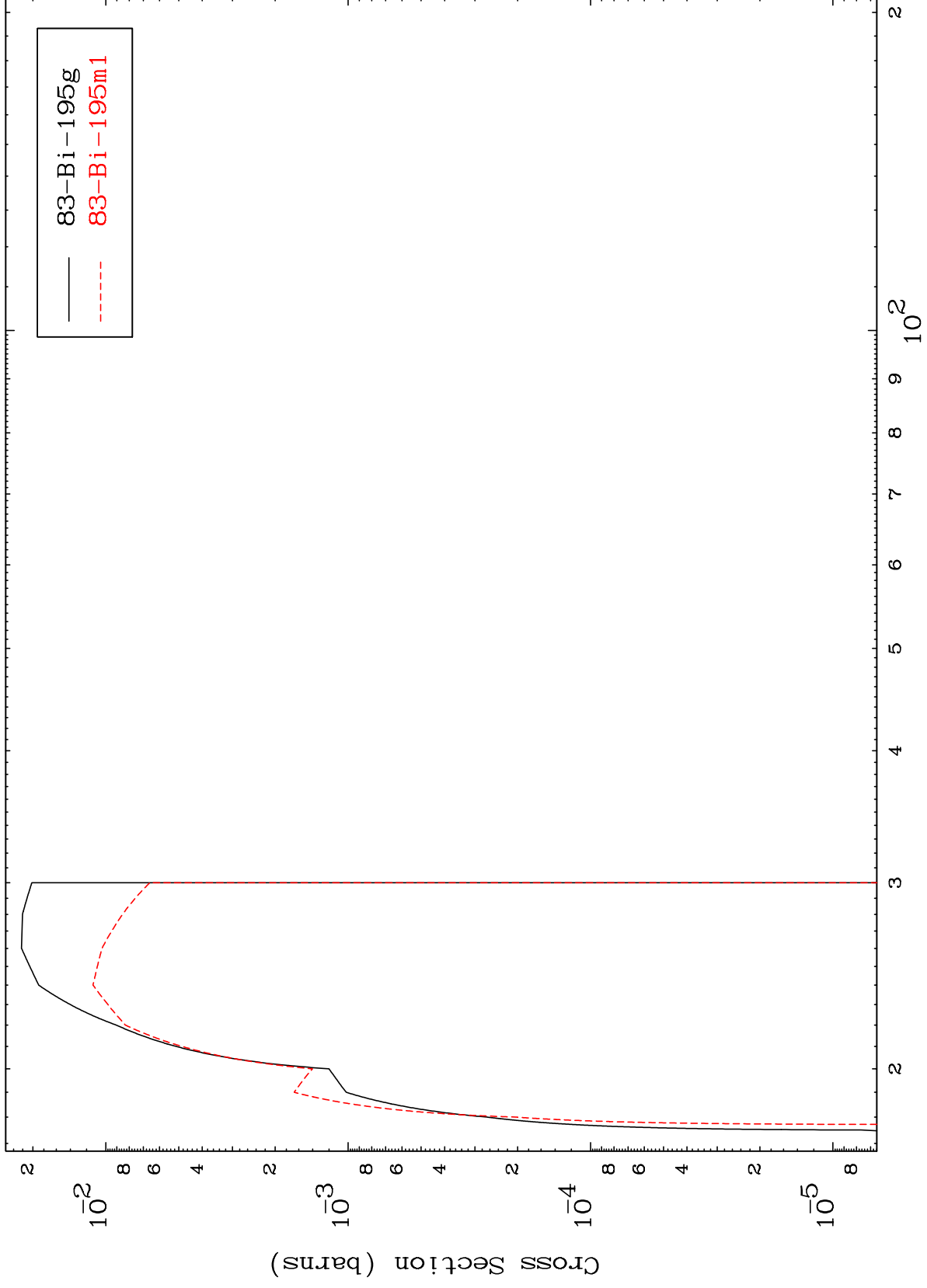
12

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(n,2n)

<sup>83</sup>Bi-197m

Radionuclide Production Cross Section



13

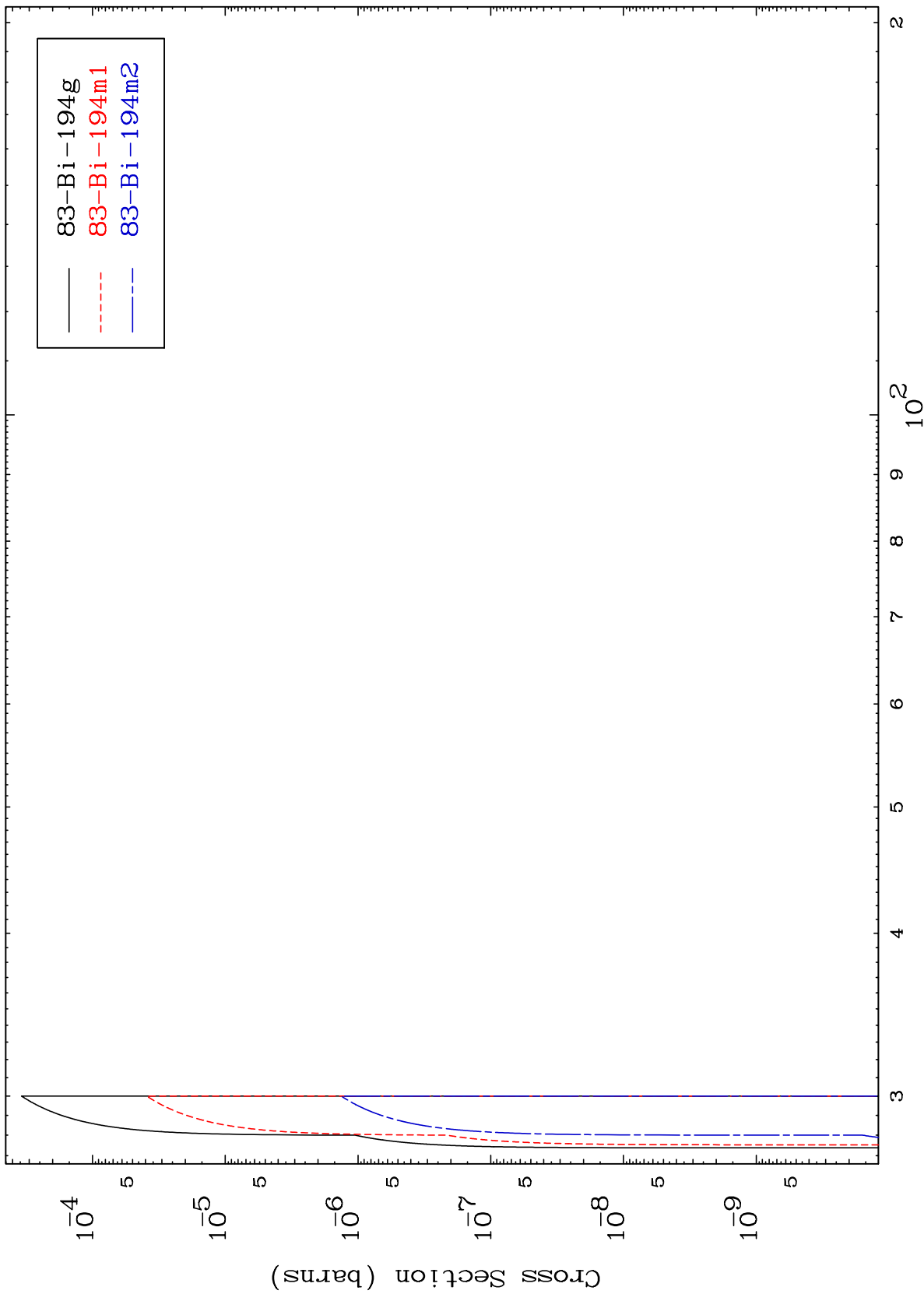
Incident Energy (MeV)

<sup>83</sup>Bi-197m

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<sup>83</sup>Bi-197m

(n,3n)  
Radionuclide Production Cross Section



14

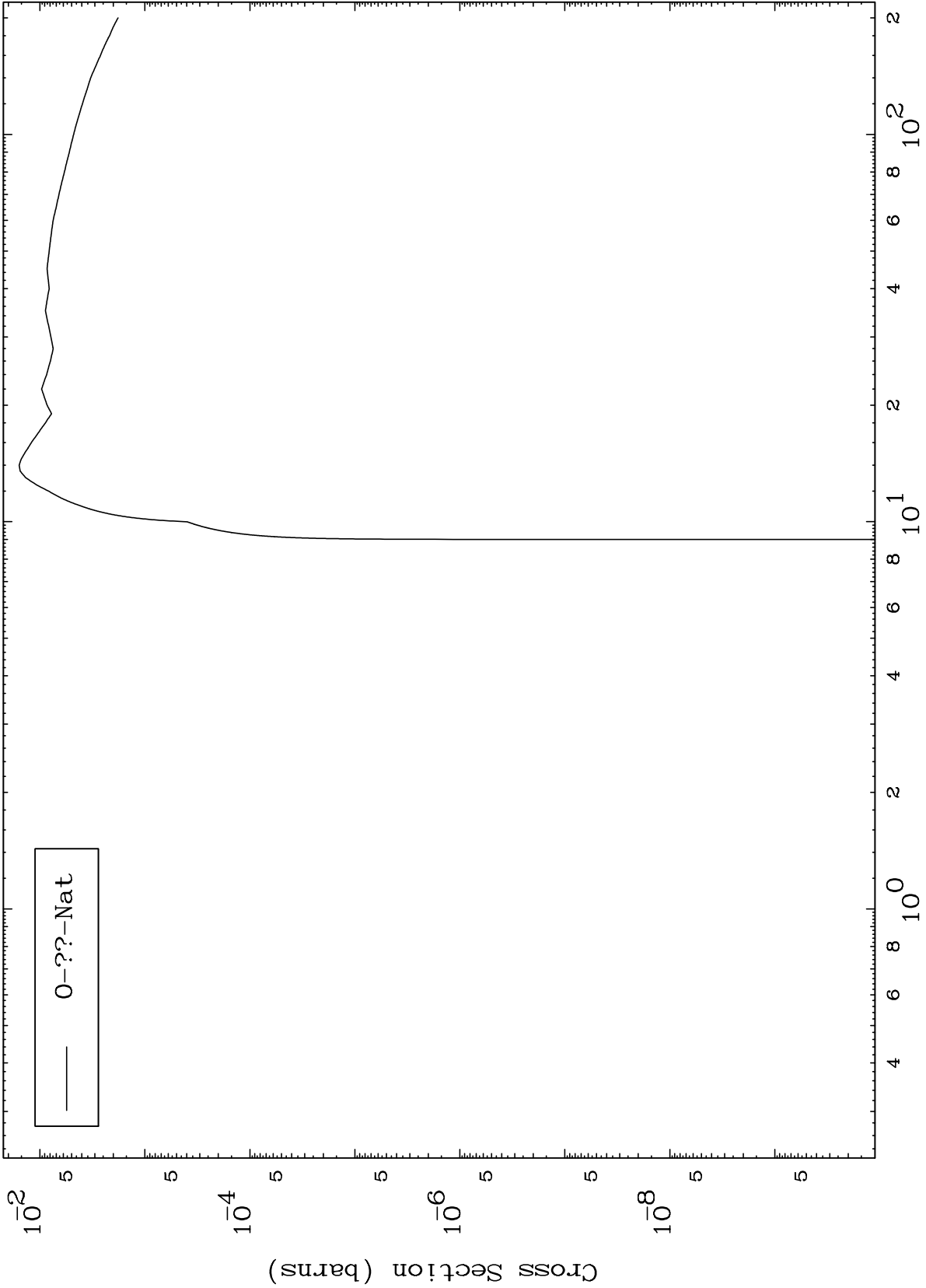
Incident Energy (MeV)

<sup>83</sup>Bi-197m

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83-Bi-197m

Fission  
Radionuclide Production Cross Section

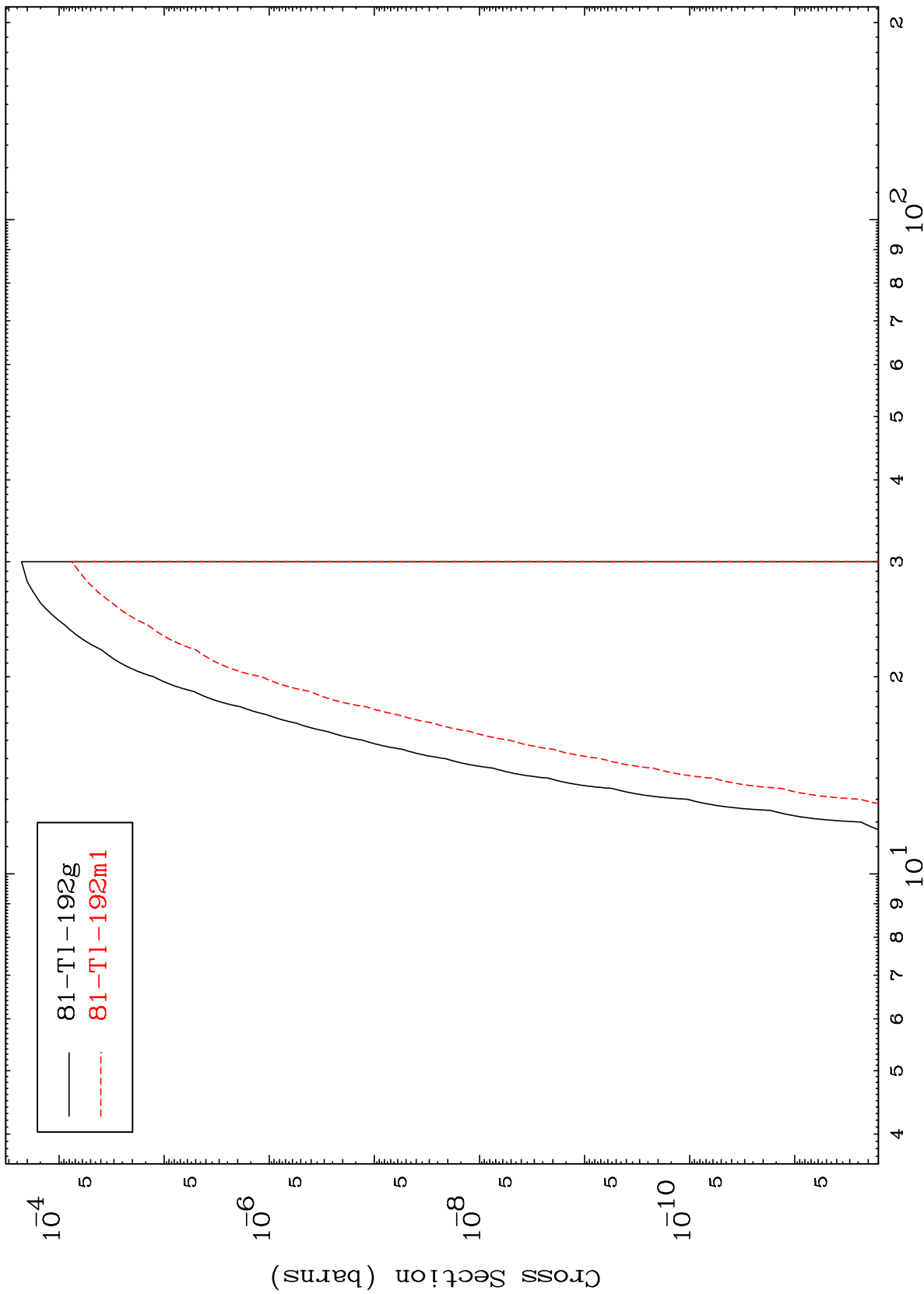


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(n,n')  $\alpha$

83-Bi-197m

Radionuclide Production Cross Section



16

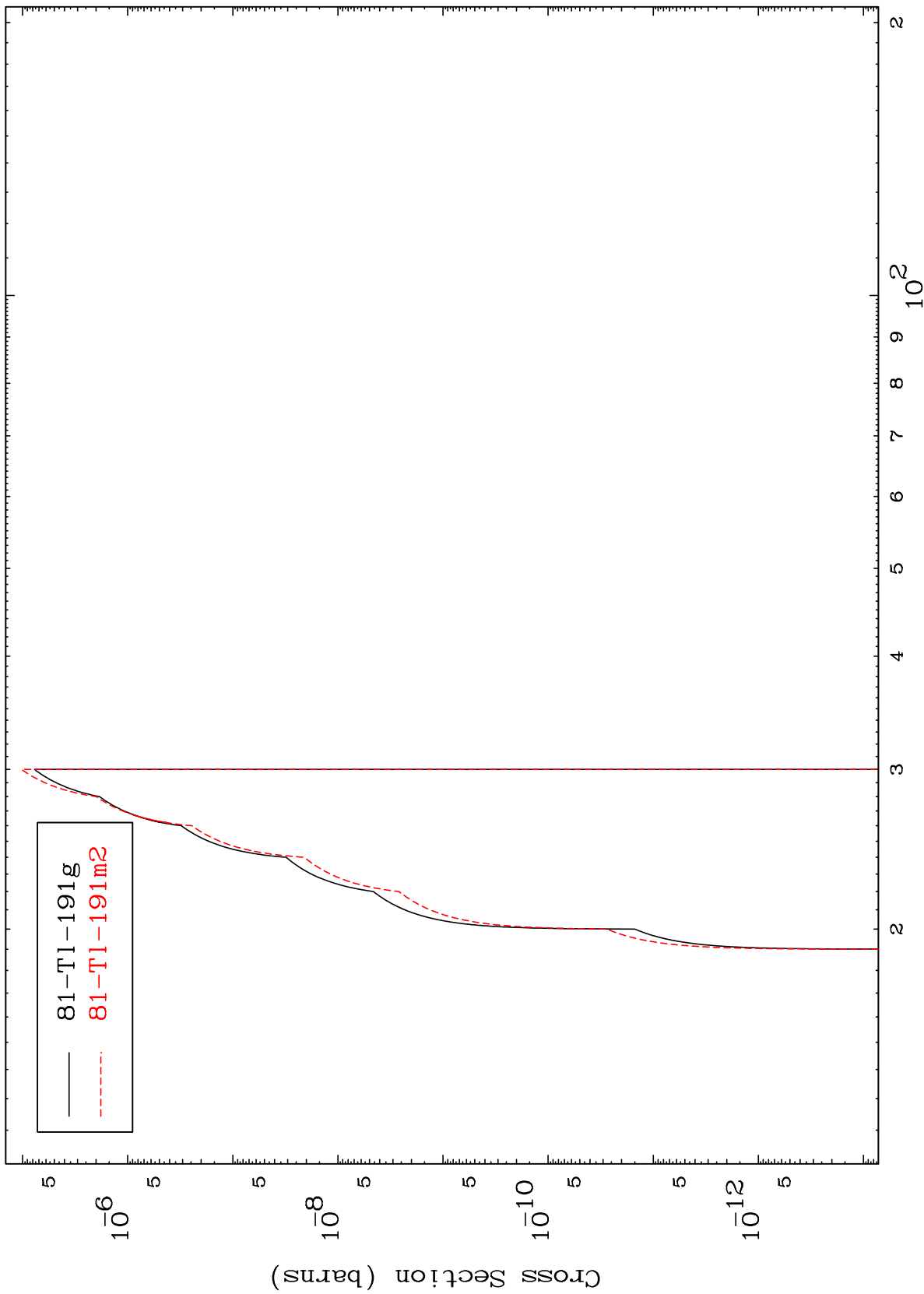
Incident Energy (MeV)

83-Bi-197m

MAT 8290

83-Bi-197m

(n,2n)  $\alpha$   
Radionuclide Production Cross Section

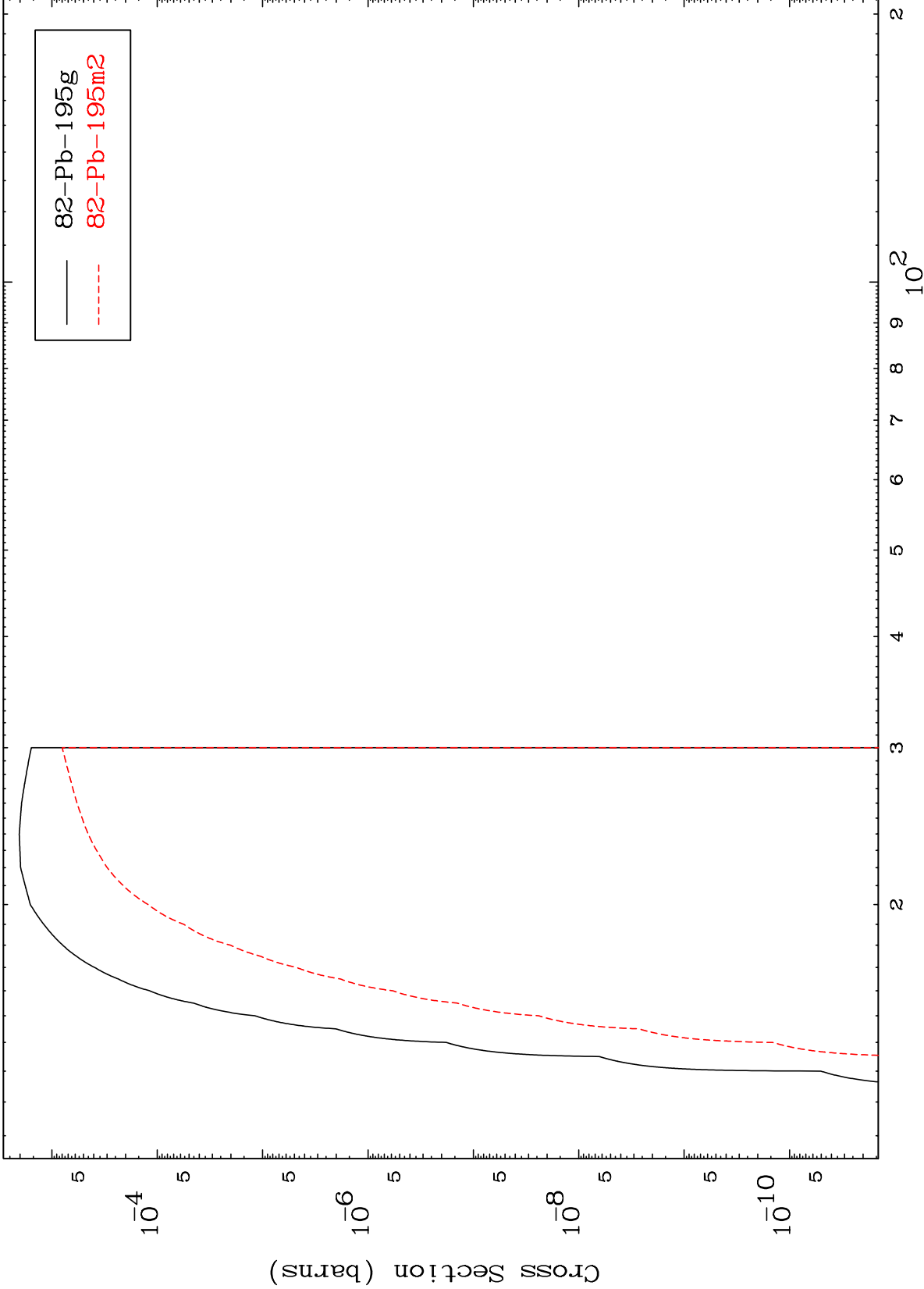


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(n,n') p

83-Bi-197m

Radionuclide Production Cross Section



18

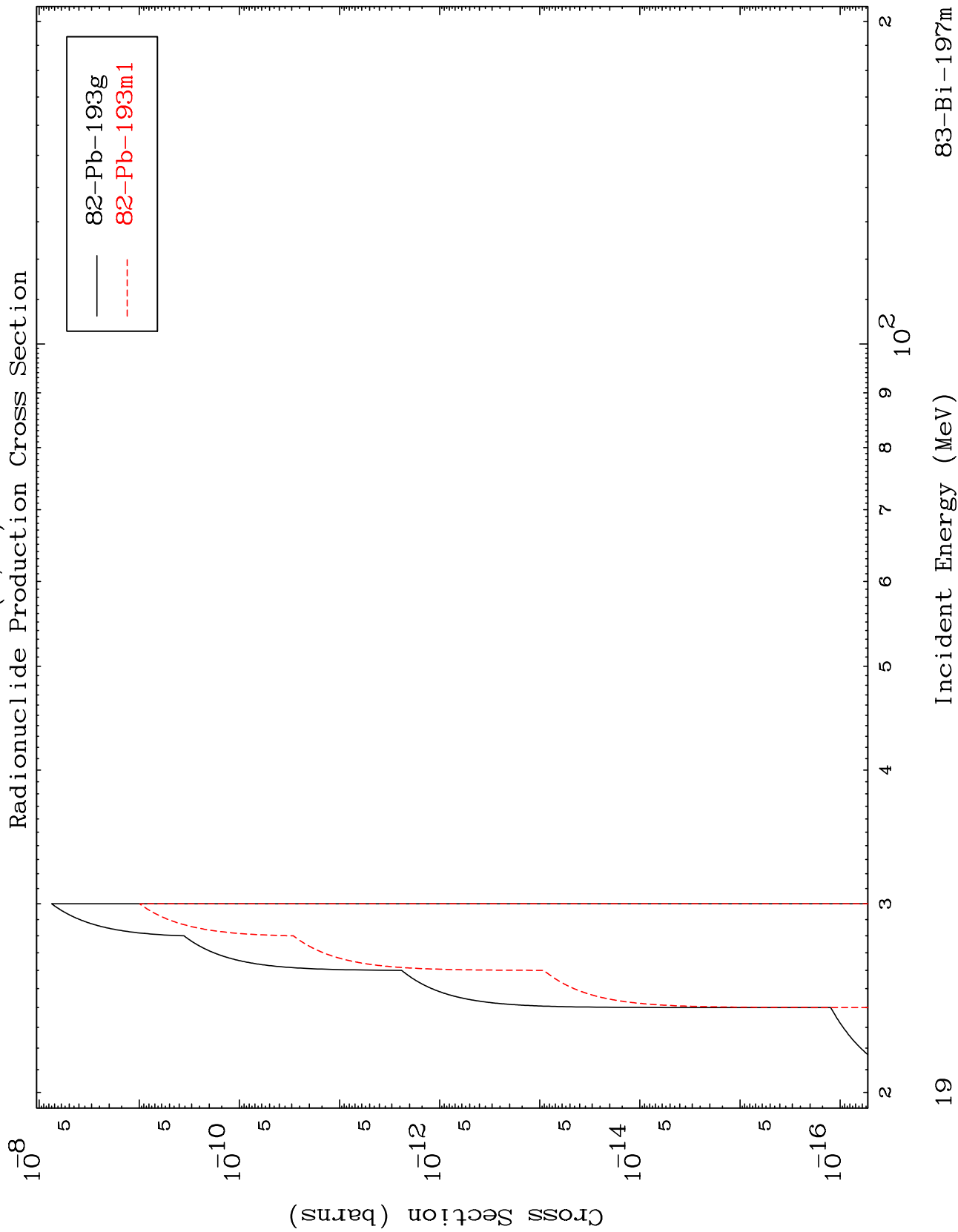
Incident Energy (MeV)

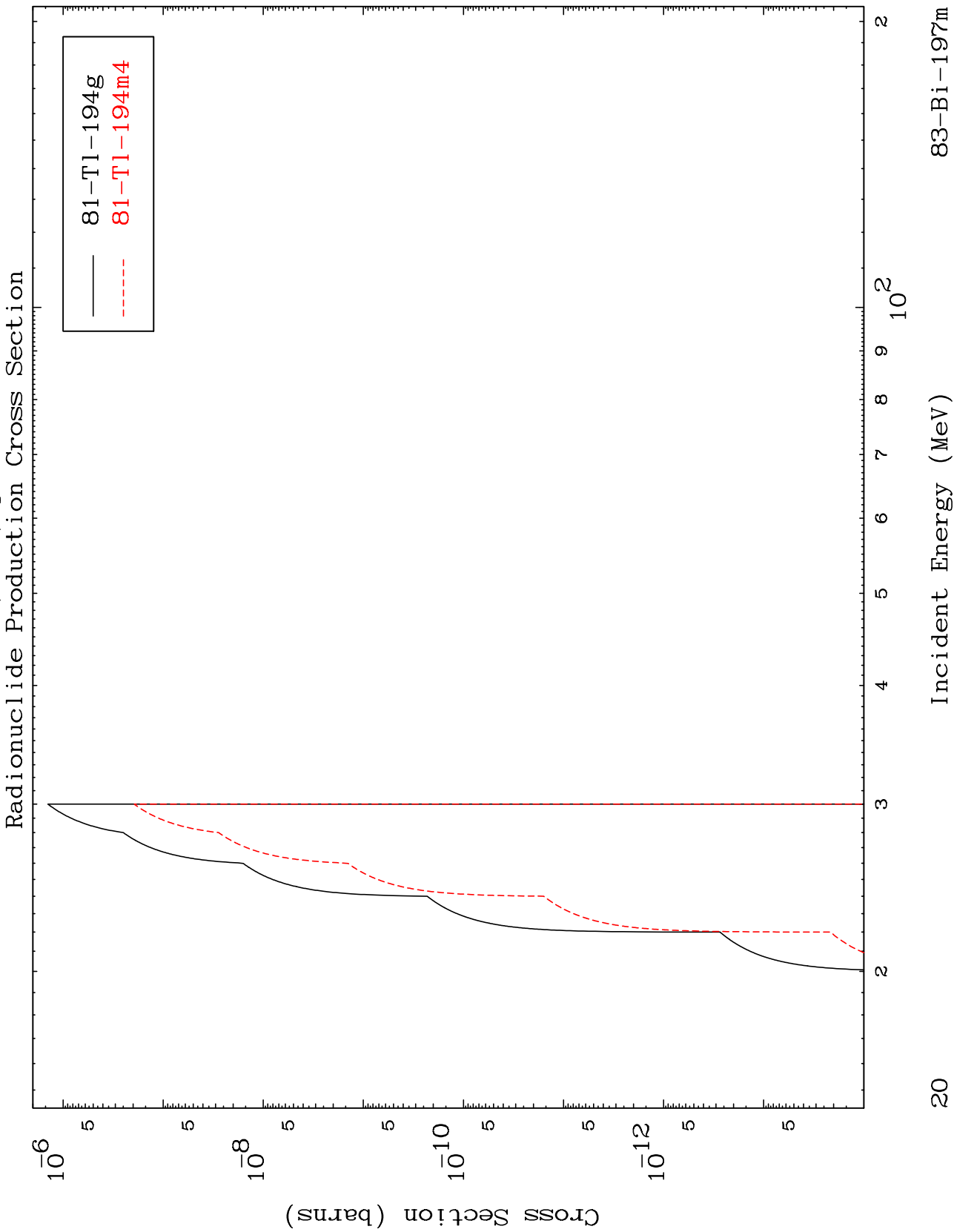
83-Bi-197m

MAT 8290

(n,n') t

83-Bi-197m



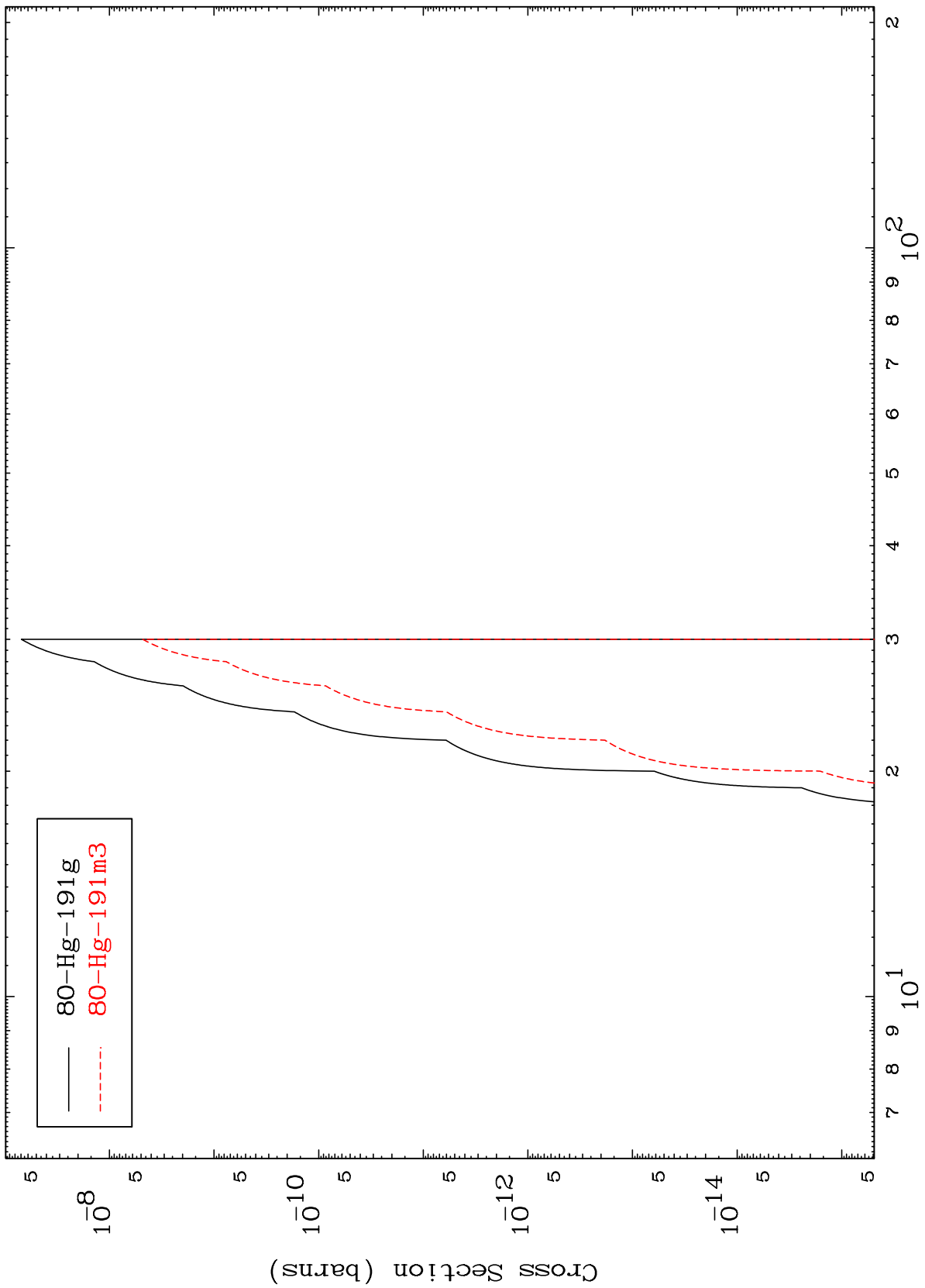


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(n,n') p  $\alpha$

83-Bi-197m

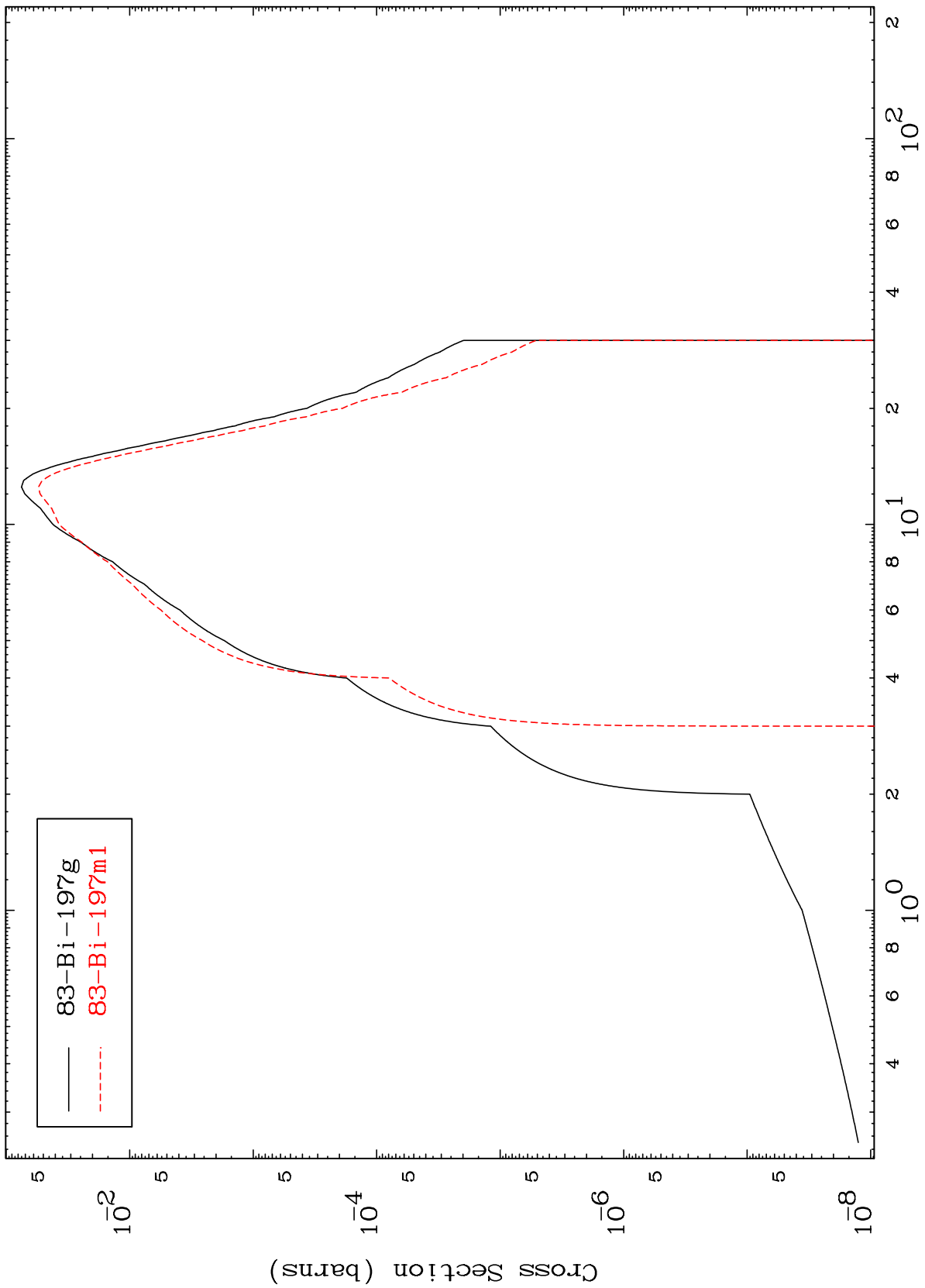
Radionuclide Production Cross Section



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<sup>83</sup>Bi-197m

Radionuclide Production Cross Section (n,γ)

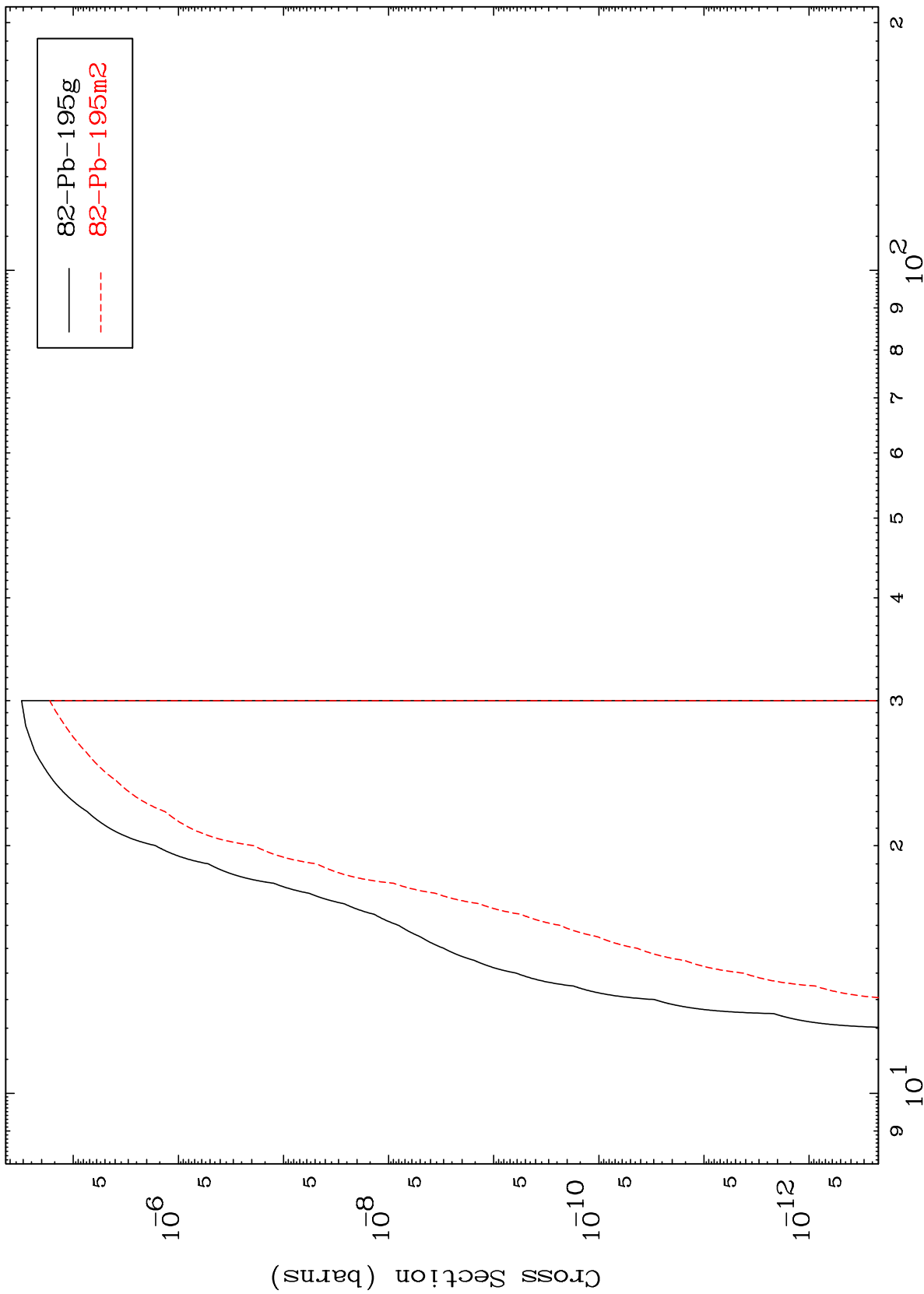


— 83-Bi-197g  
- - - 83-Bi-197m1

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83-Bi-197m

(n,d)  
Radionuclide Production Cross Section



23

Incident Energy (MeV)

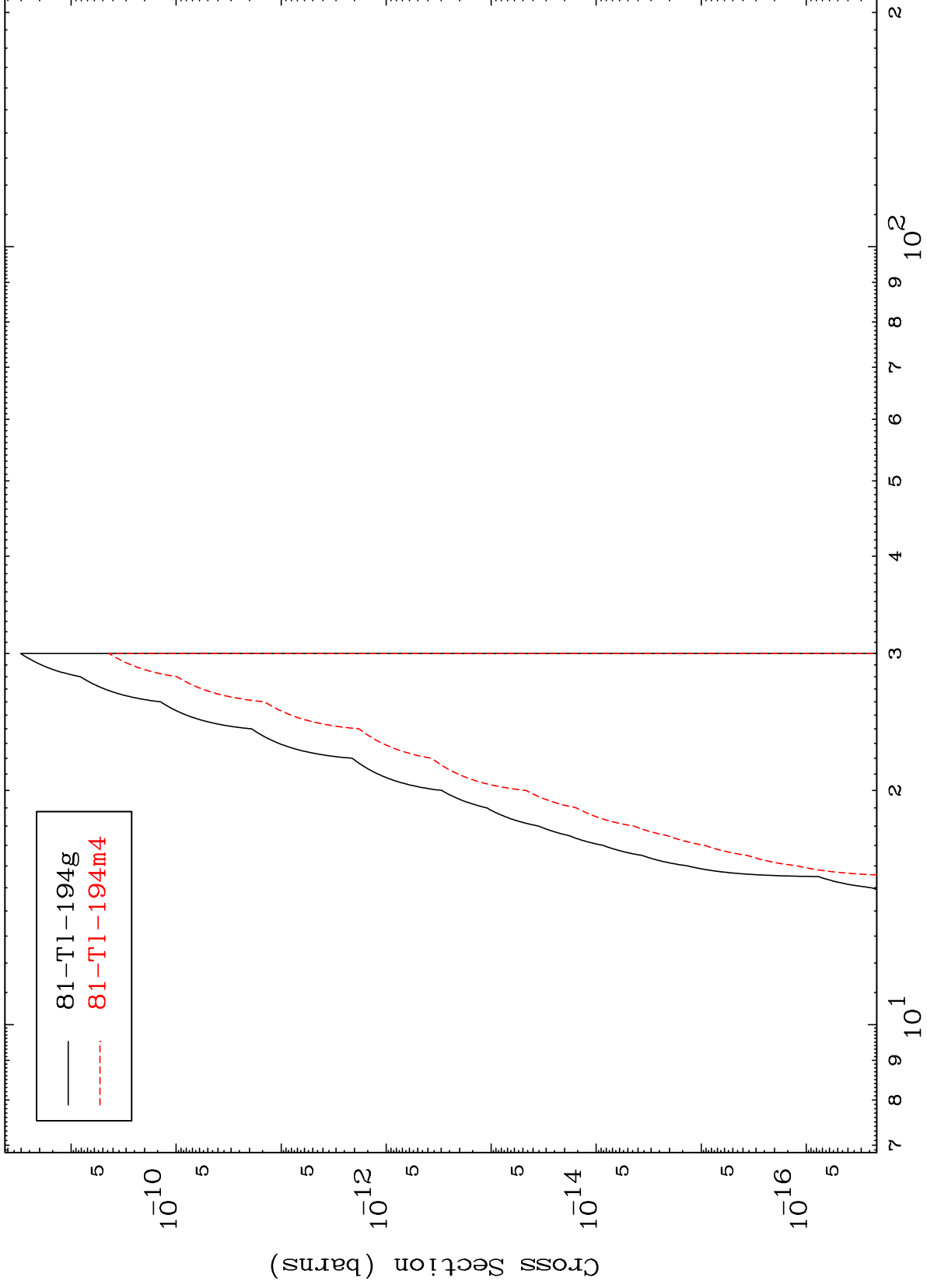
83-Bi-197m

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(n,He-3)

83-Bi-197m

Radionuclide Production Cross Section



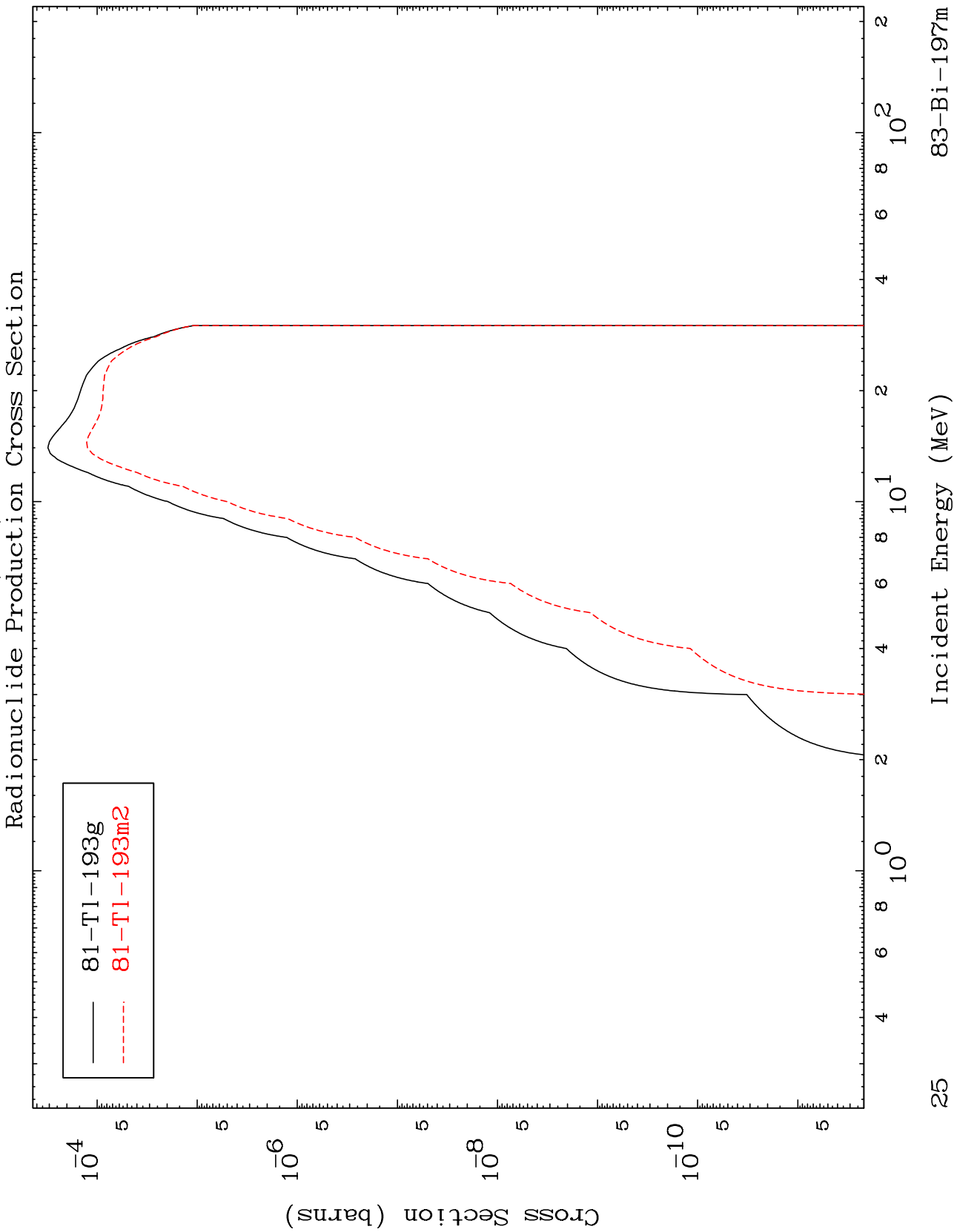
24

Incident Energy (MeV)

83-Bi-197m

MAT 8290

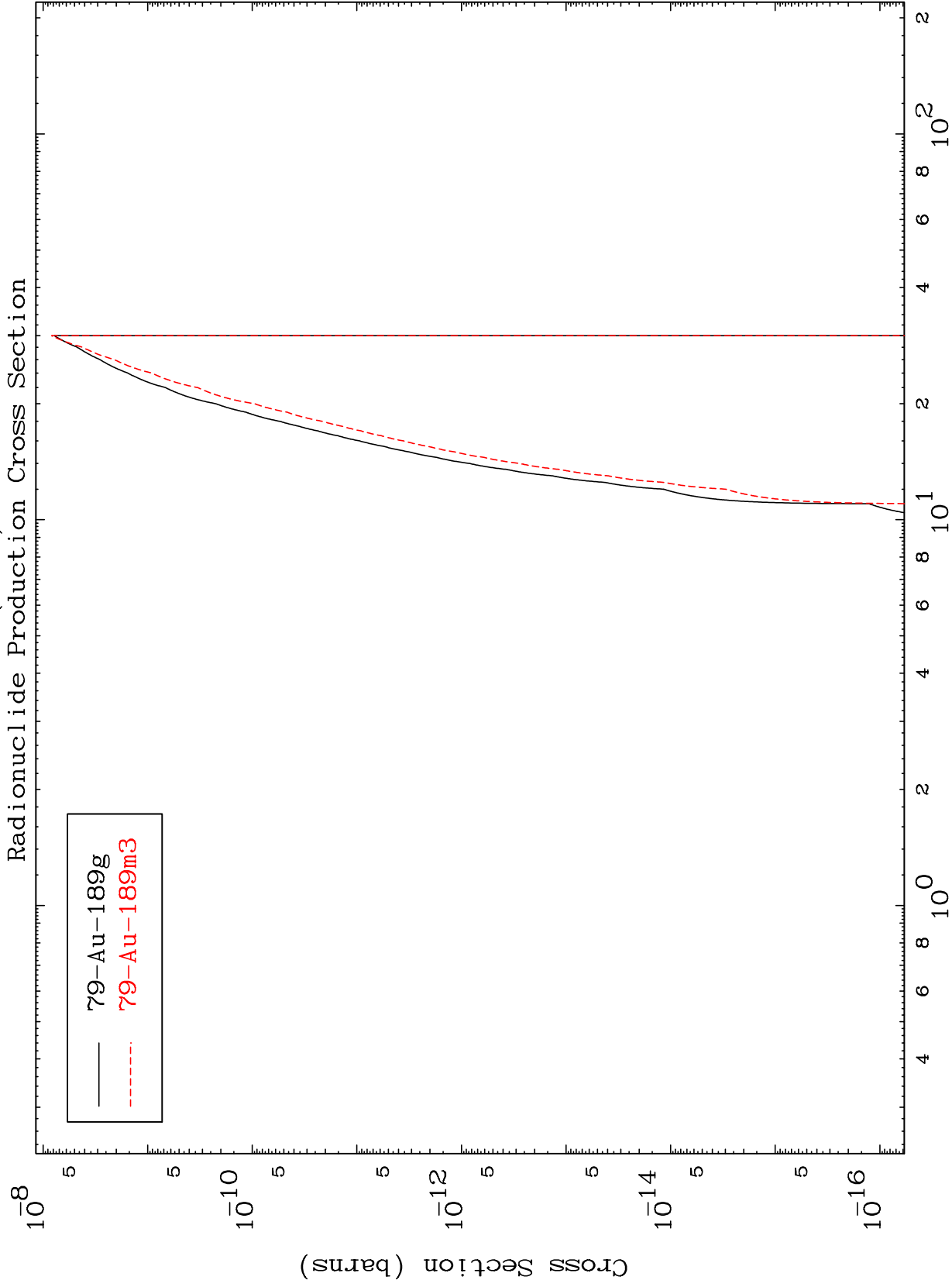
<sup>83</sup>Bi-197m



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(n,2α)

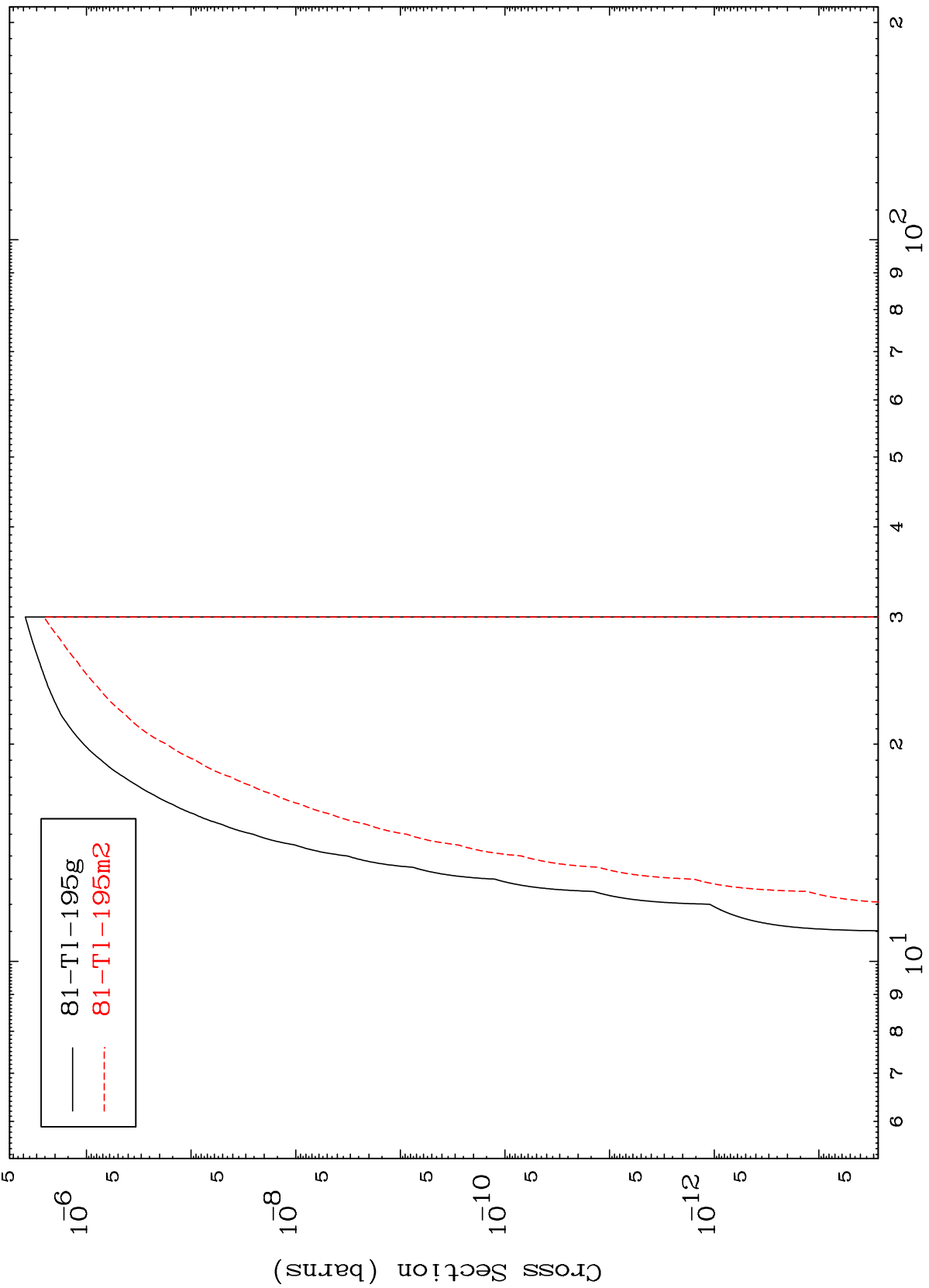
83-Bi-197m



MAT 8290

83-Bi-197m

(n,2p)  
Radionuclide Production Cross Section



Radionuclide Production Cross Section

