

Program EVALPLOT  
(Version 2021-1)

by

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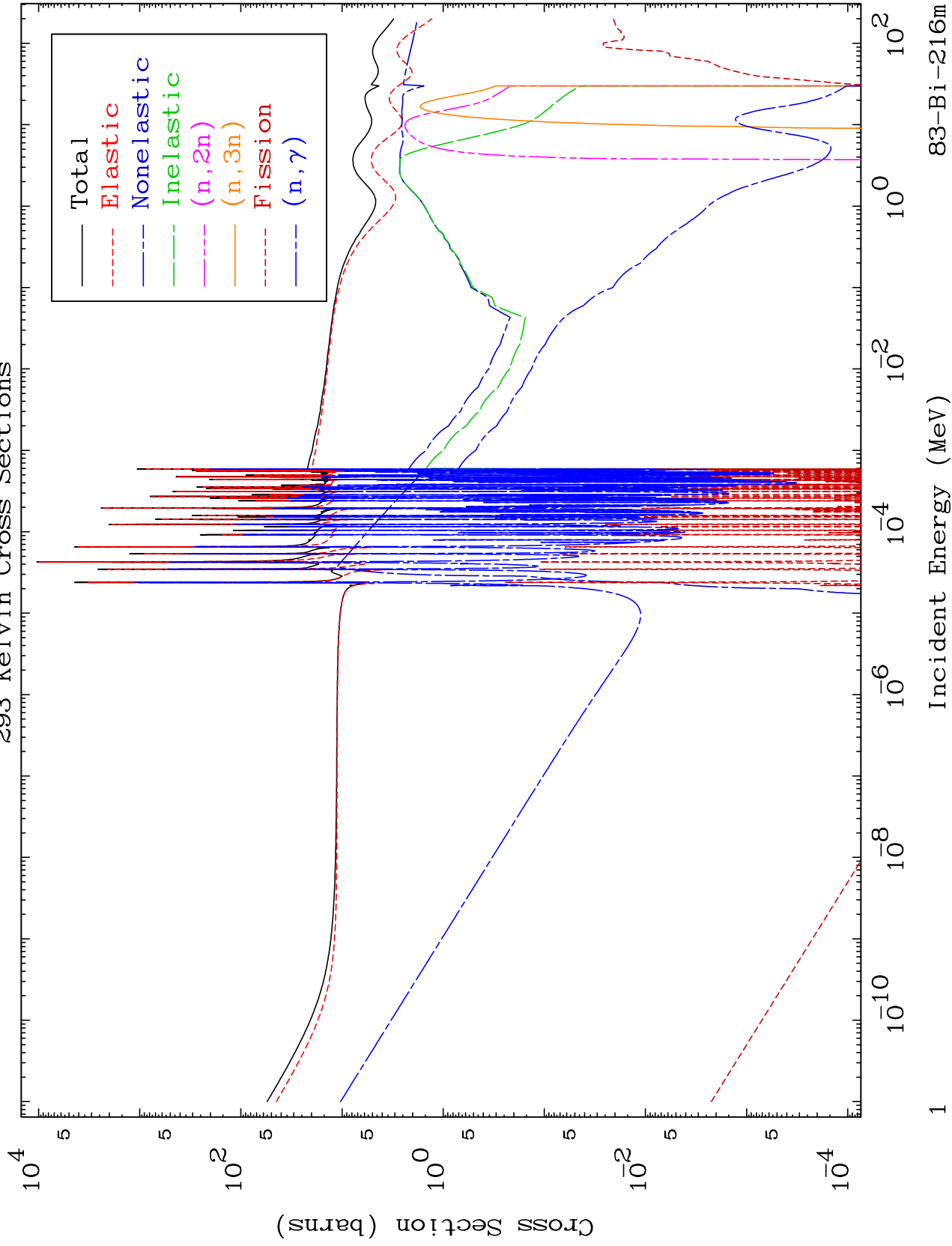
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 8347

Neutron Major  
293 Kelvin Cross Sections

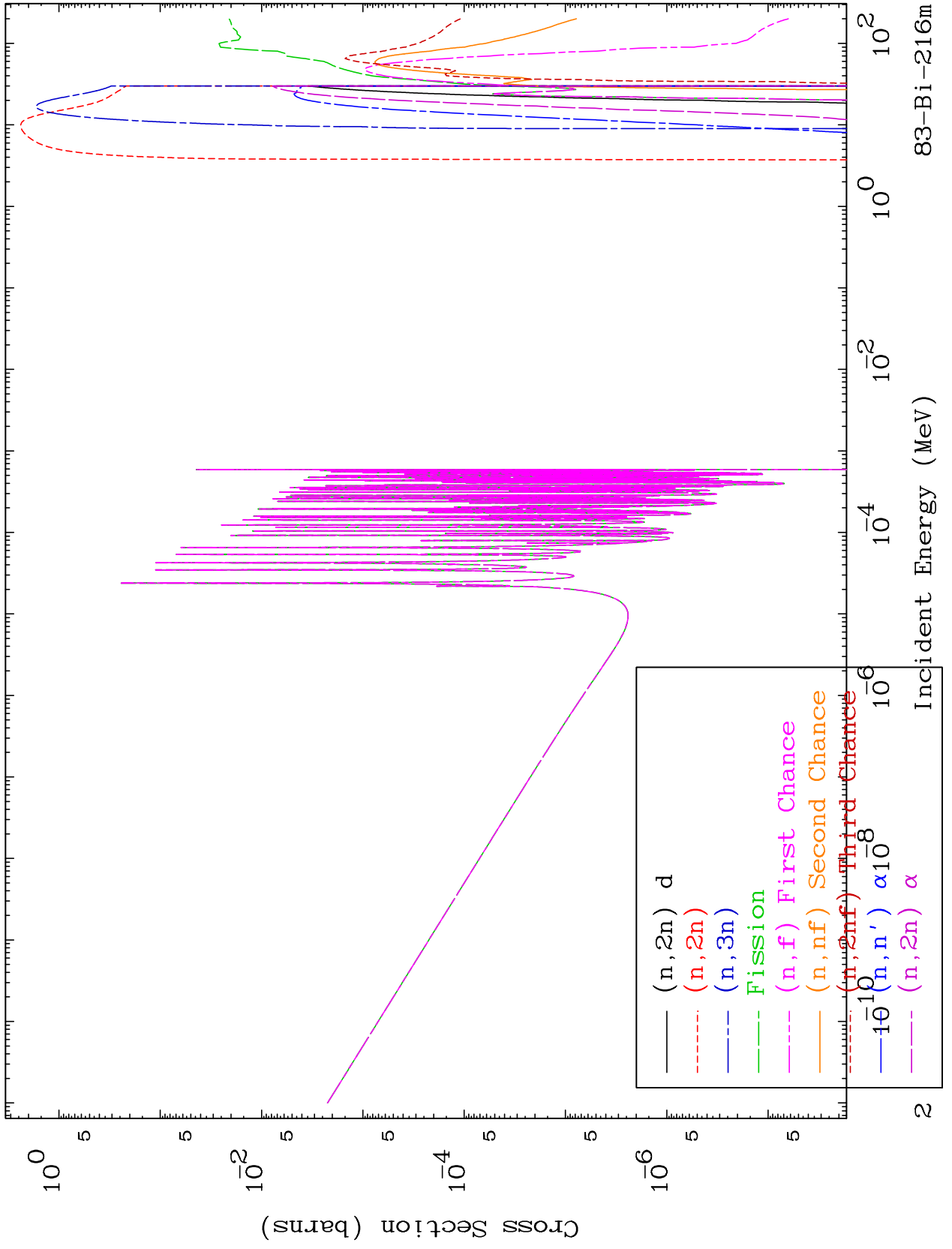
83-Bi-216m



MAT 8347

Neutron Absorption  
293 Kelvin Cross Sections

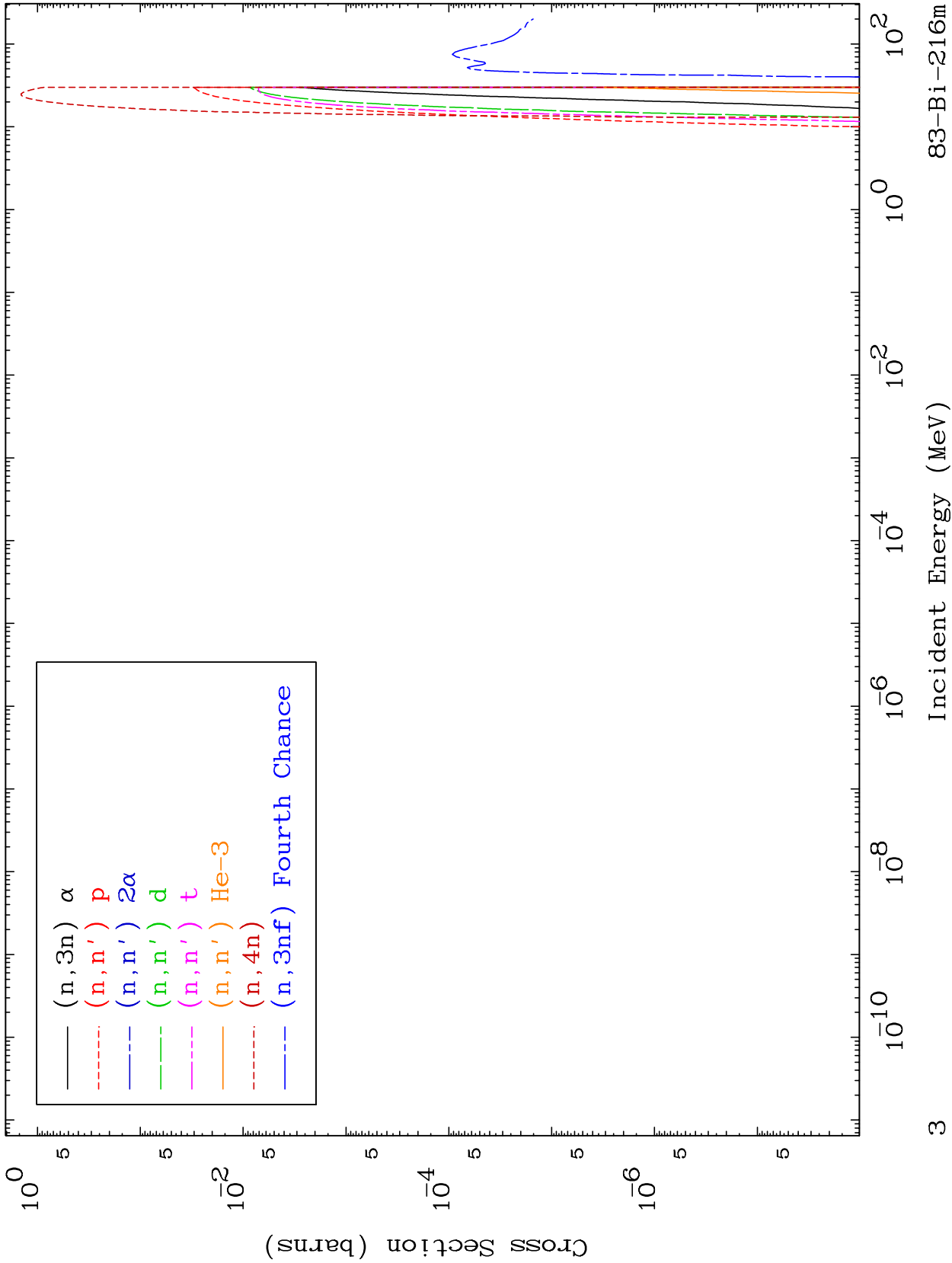
83-Bi-216m



MAT 8347

Neutron Absorption  
293 Kelvin Cross Sections

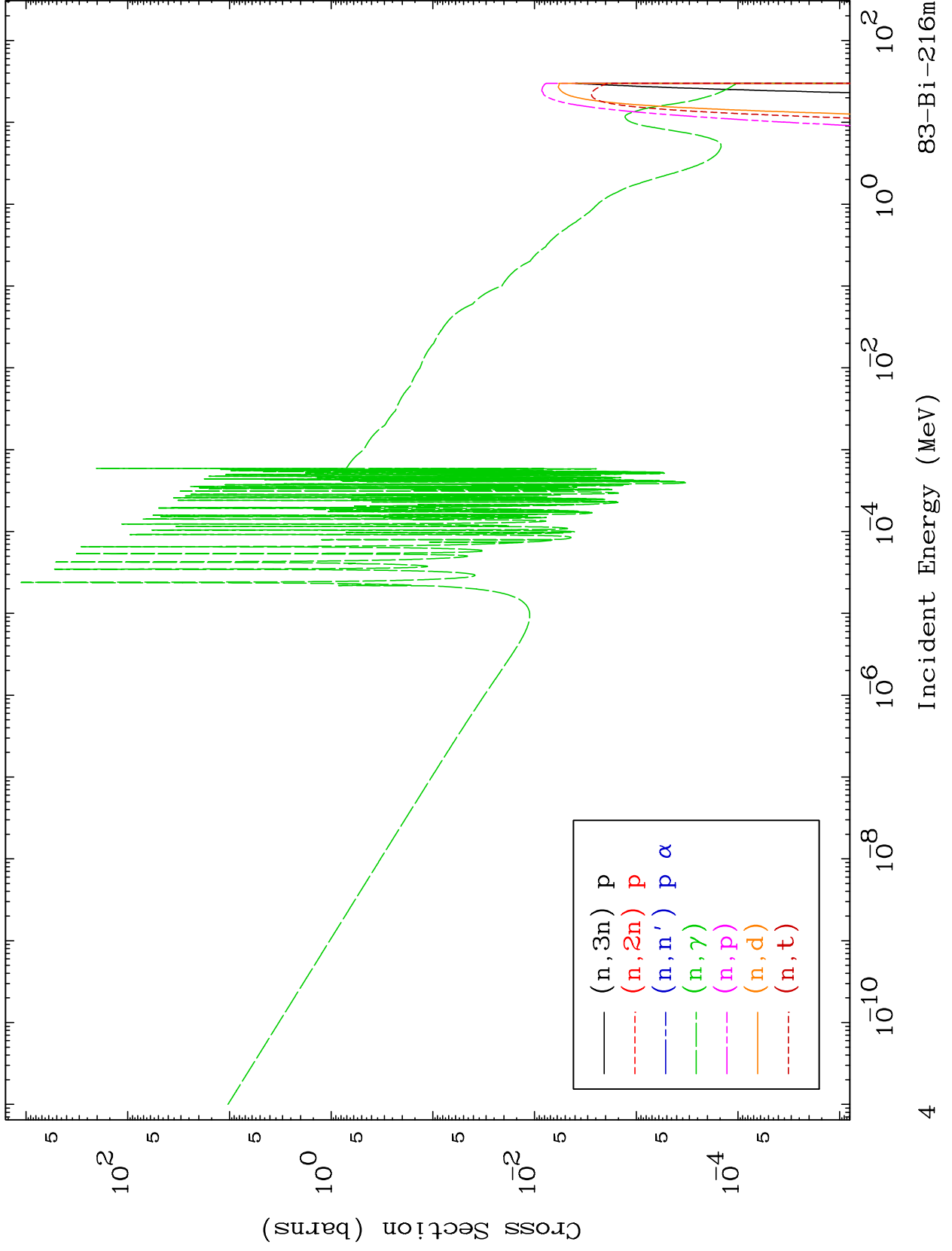
83-Bi-216m



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Neutron Absorption  
293 Kelvin Cross Sections

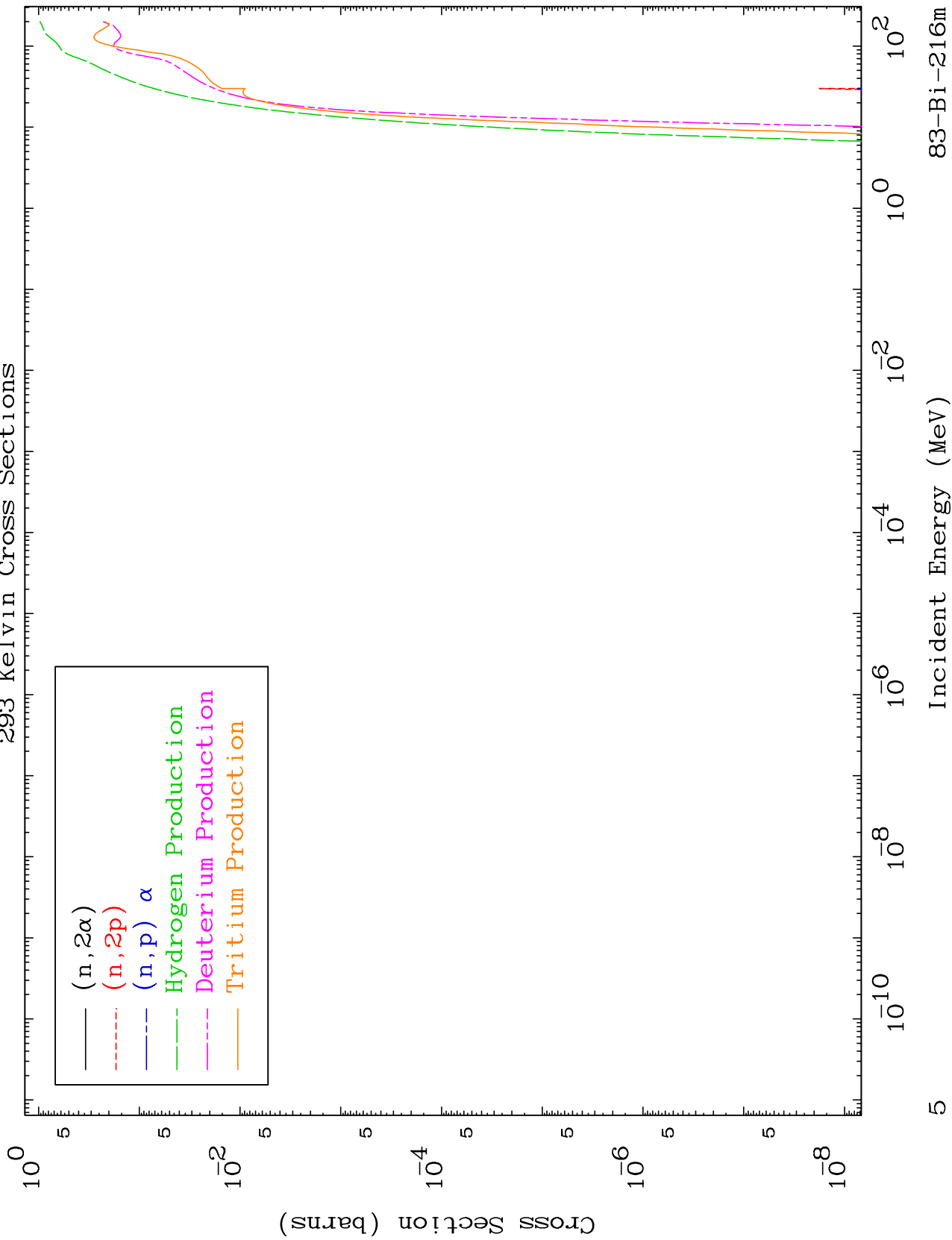
83-Bi-216m



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Neutron Absorption  
293 Kelvin Cross Sections

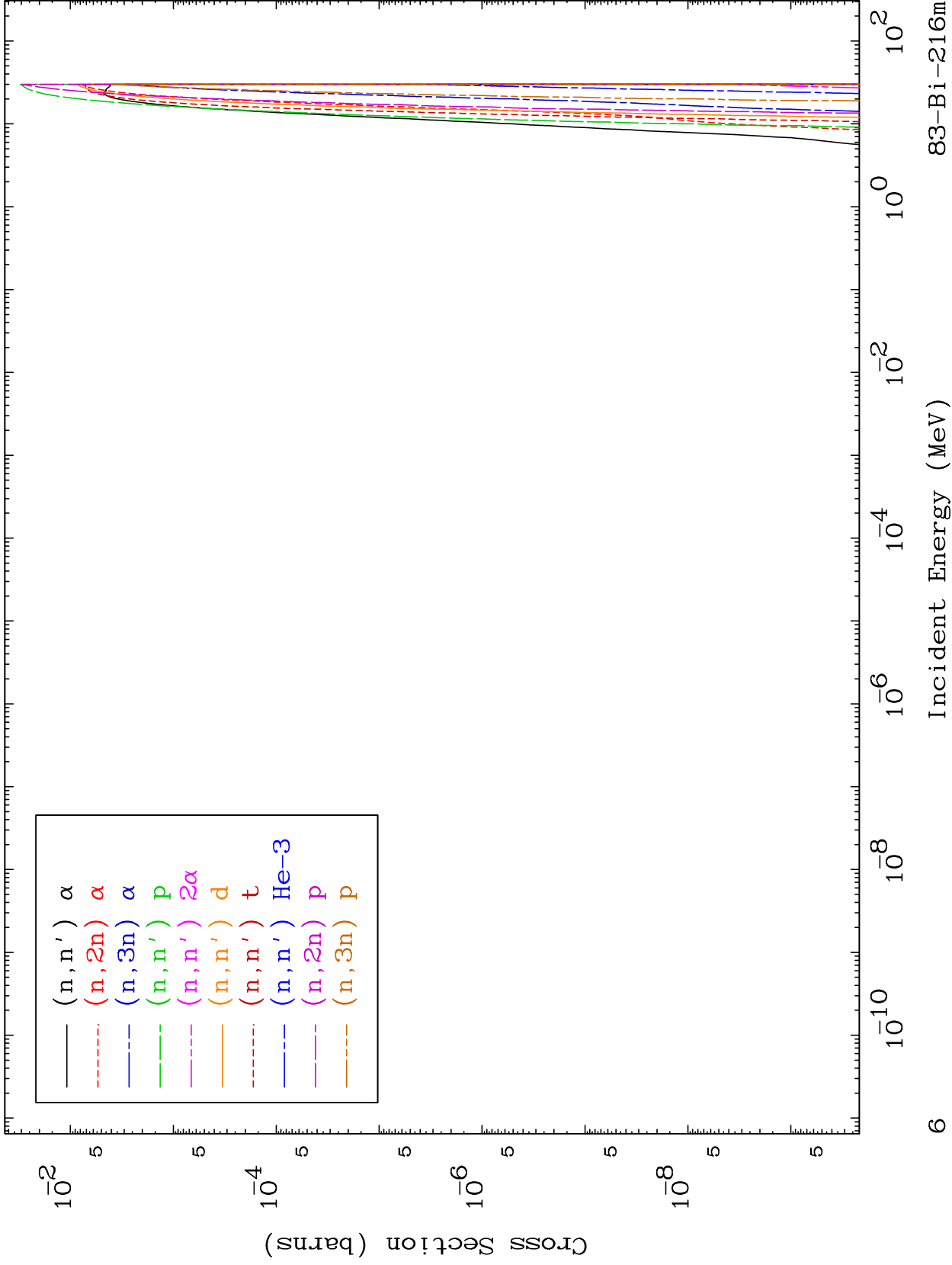
83-Bi-216m



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Charged Particle  
293 Kelvin Cross Sections

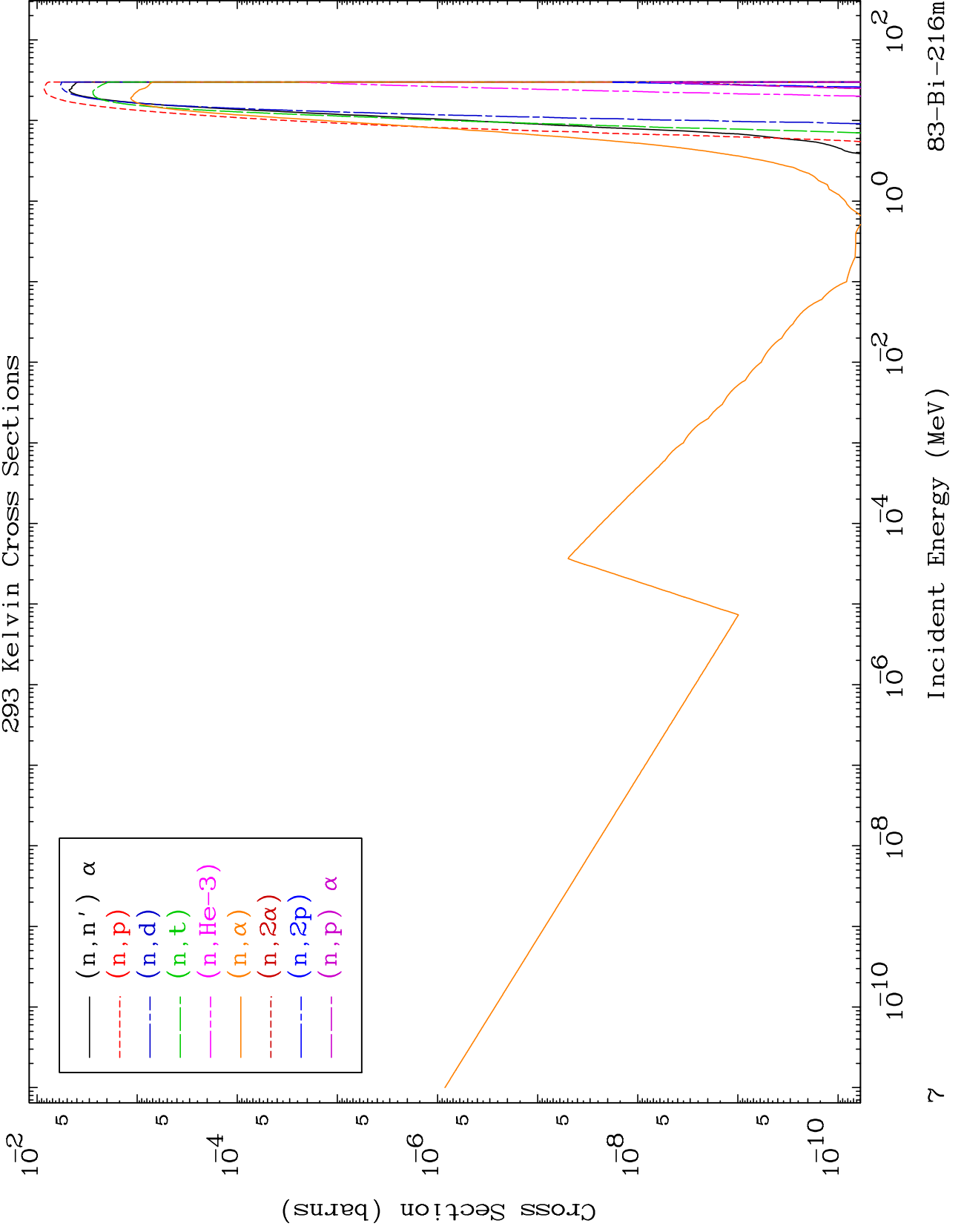
83-Bi-216m



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Charged Particle  
293 Kelvin Cross Sections

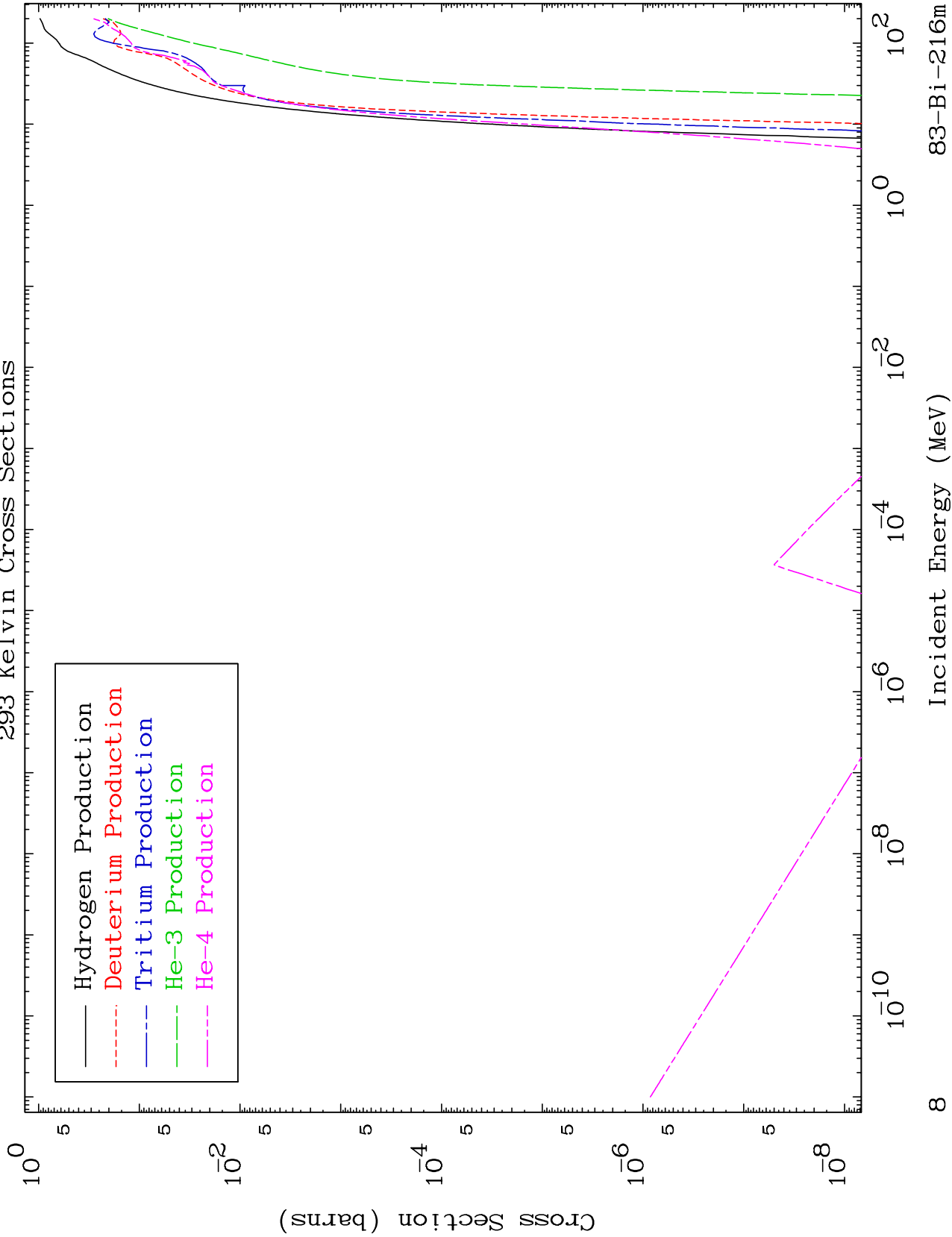
83-Bi-216m



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Particle Production  
293 Kelvin Cross Sections

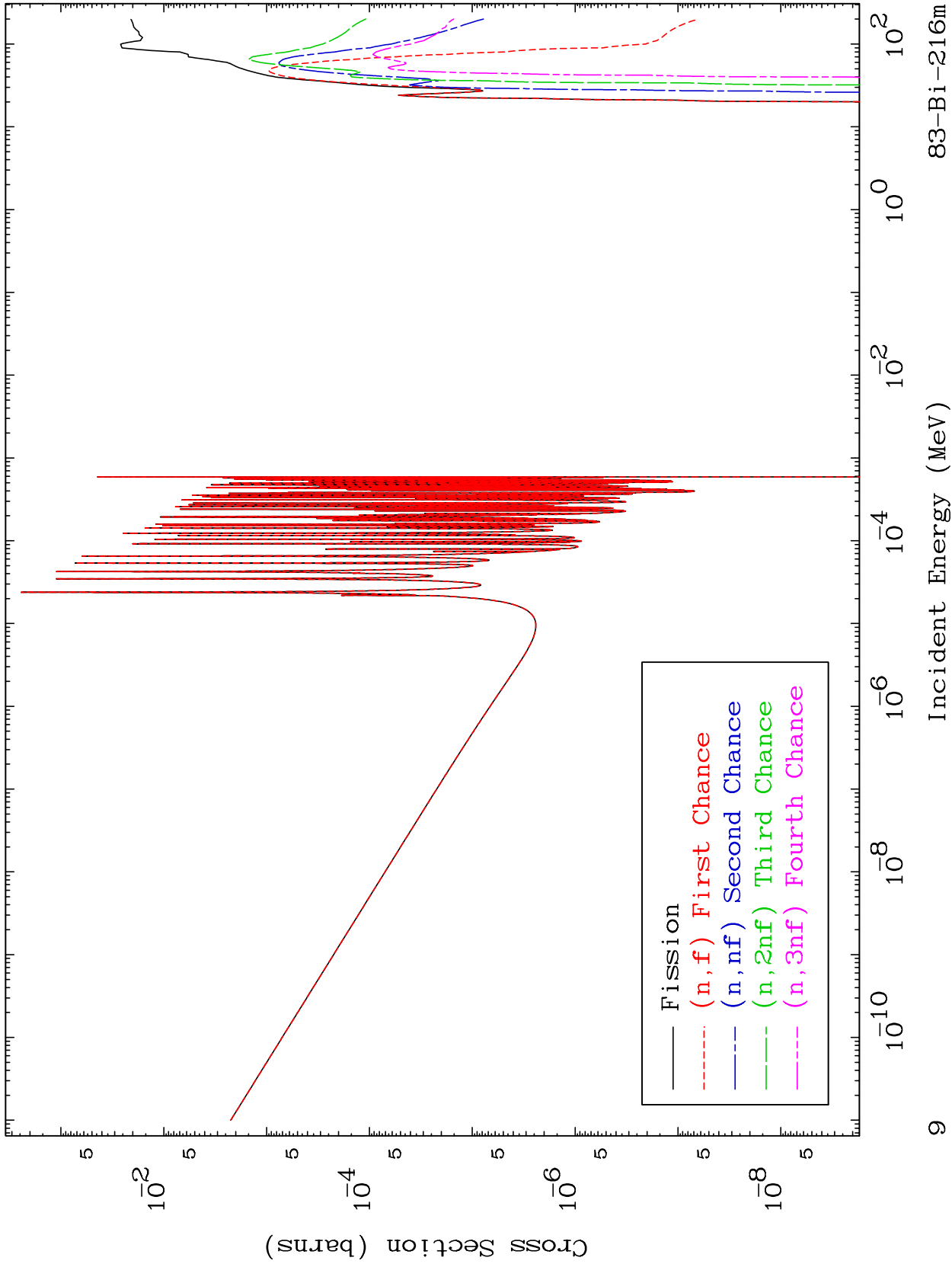
83-Bi-216m



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Fission  
293 Kelvin Cross Sections

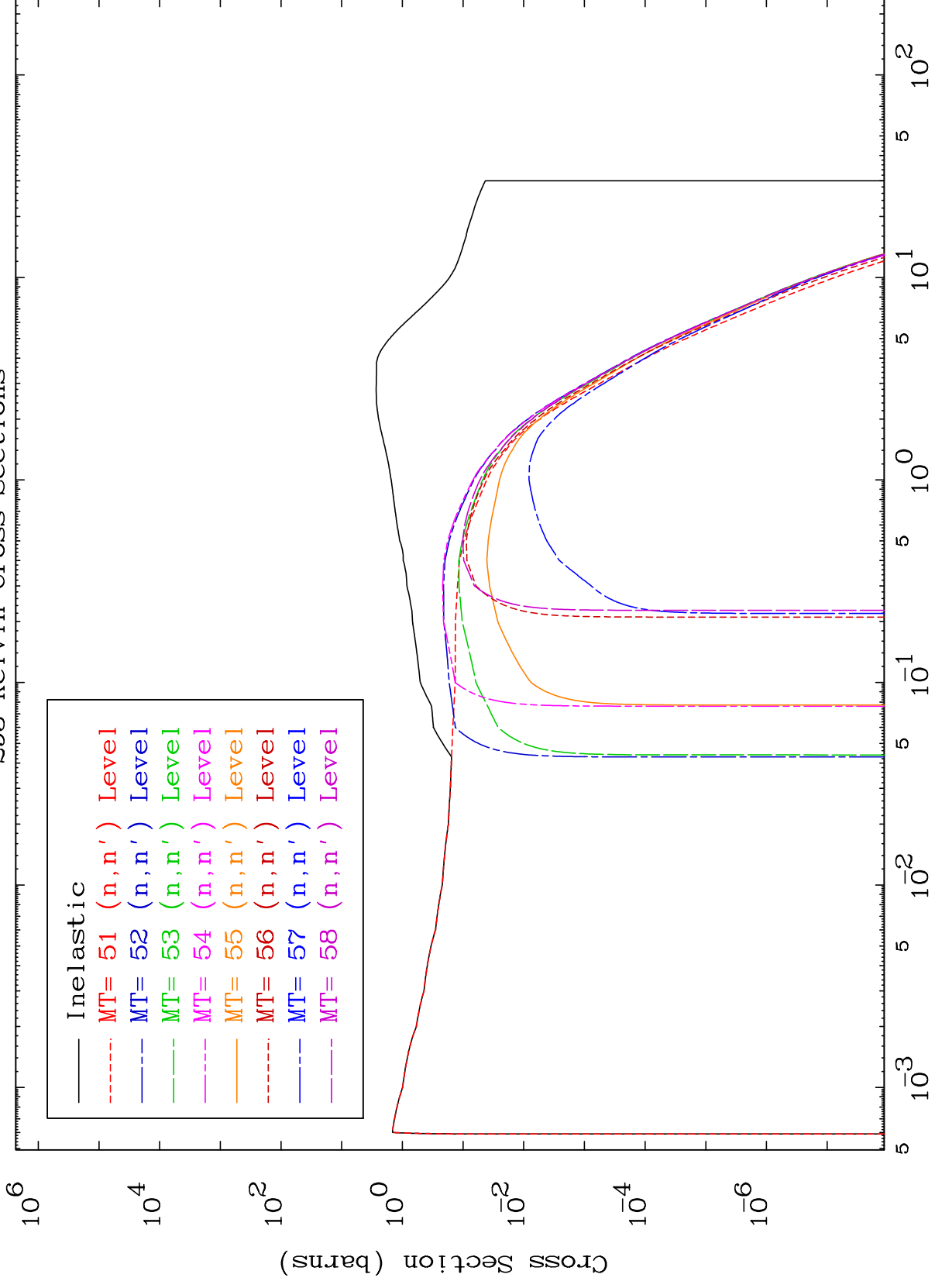
83-Bi-216m



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(n,n') Levels  
293 Kelvin Cross Sections

83-Bi-216m



- Inelastic
- - - MT= 51 (n,n') Level
- . - MT= 52 (n,n') Level
- - - MT= 53 (n,n') Level
- . - MT= 54 (n,n') Level
- - - MT= 55 (n,n') Level
- . - MT= 56 (n,n') Level
- - - MT= 57 (n,n') Level
- . - MT= 58 (n,n') Level

10

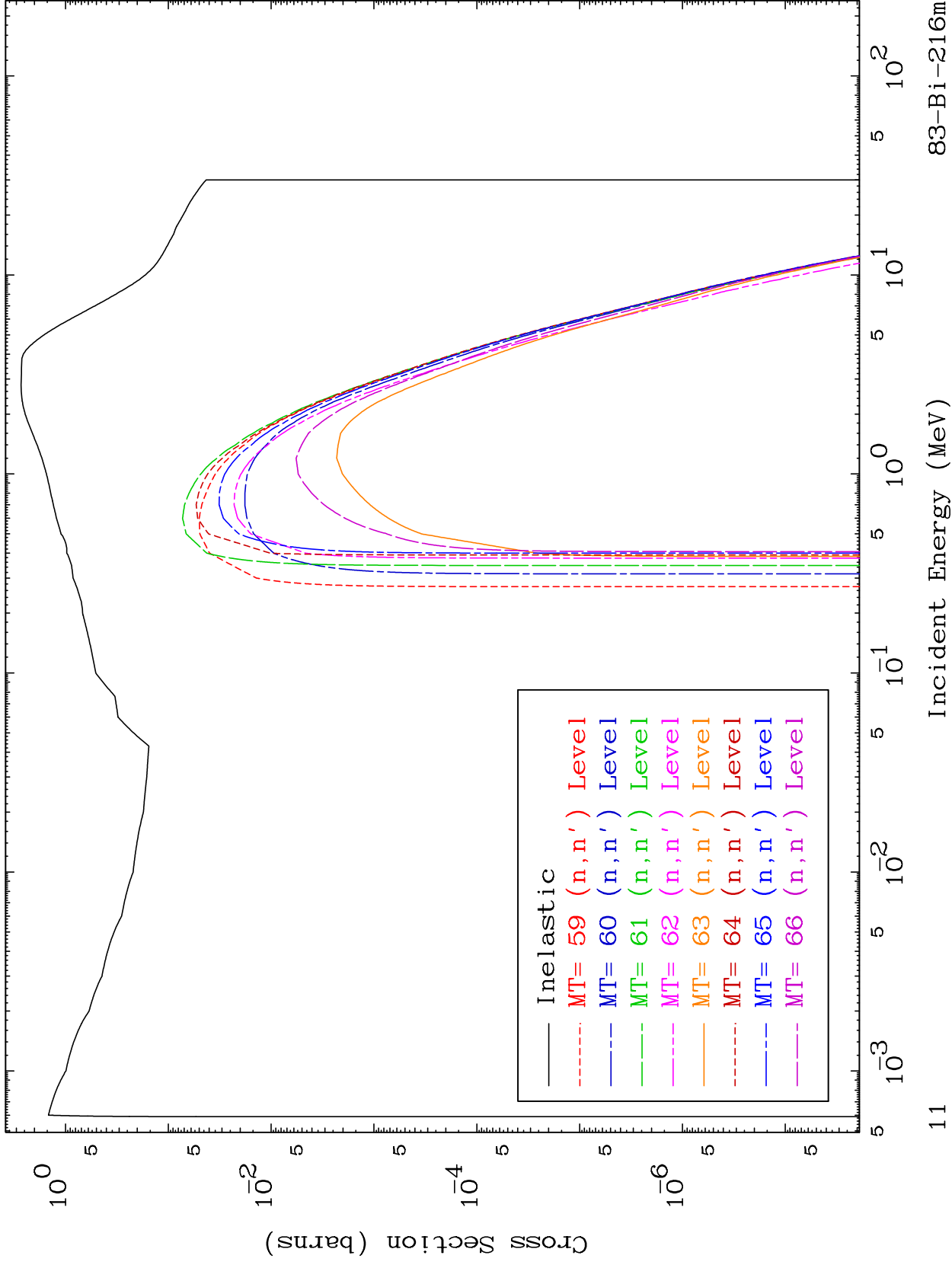
Incident Energy (MeV)

83-Bi-216m

MAT 8347

(n,n') Levels  
293 Kelvin Cross Sections

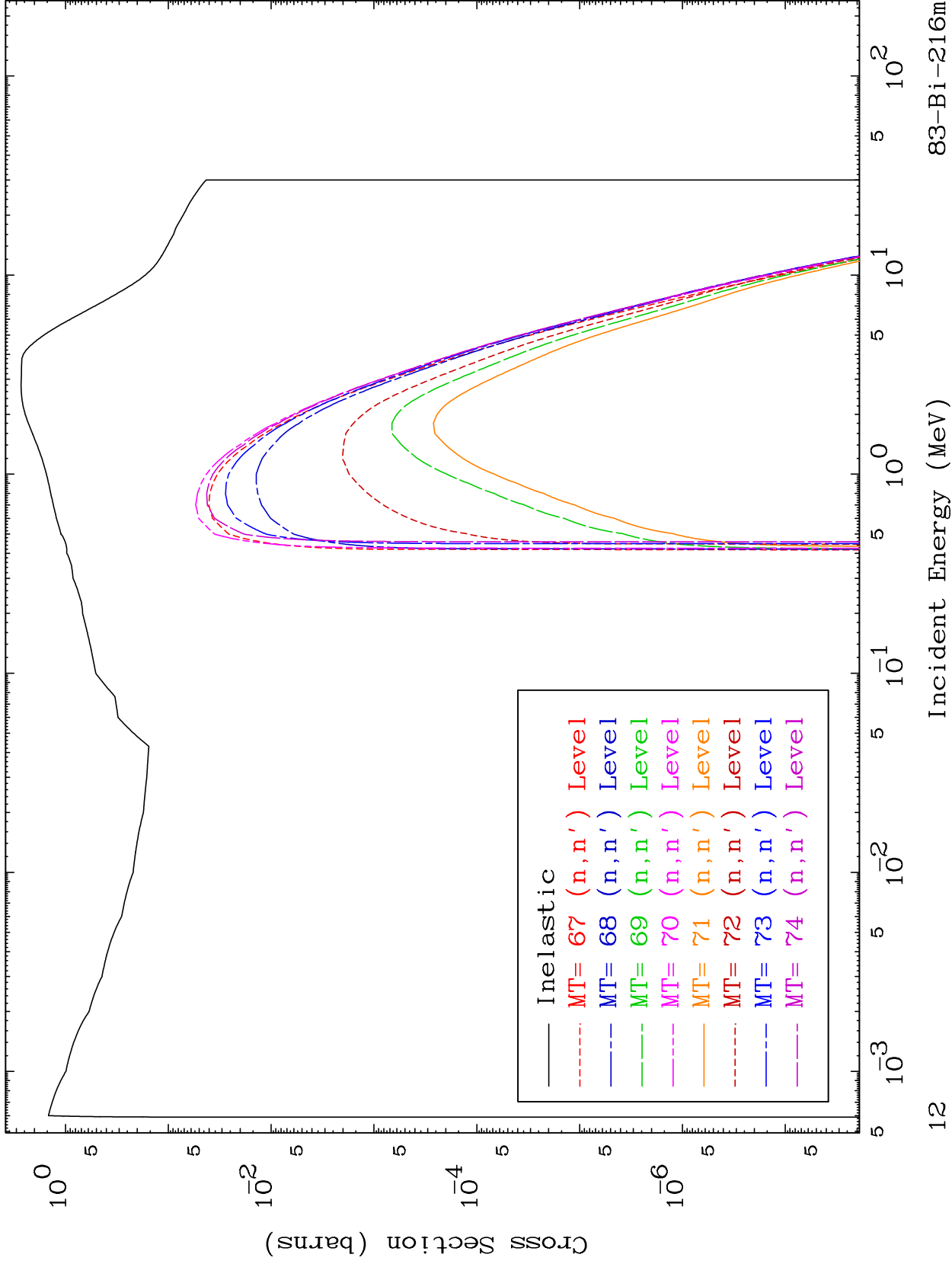
83-Bi-216m



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(n,n') Levels  
293 Kelvin Cross Sections

83-Bi-216m



12

Incident Energy (MeV)

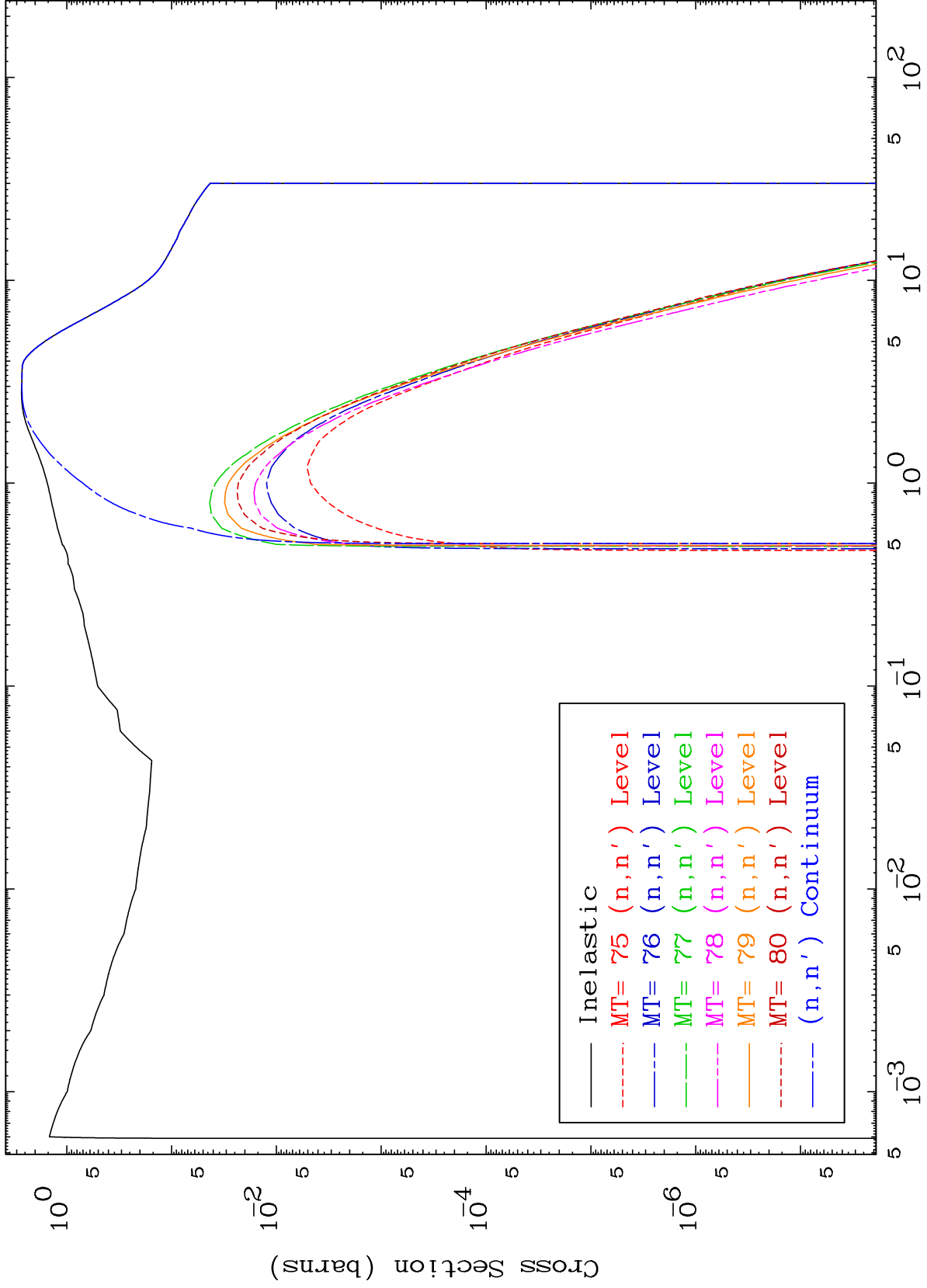
83-Bi-216m

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(n,n') Levels

83-Bi-216m

293 Kelvin Cross Sections



13

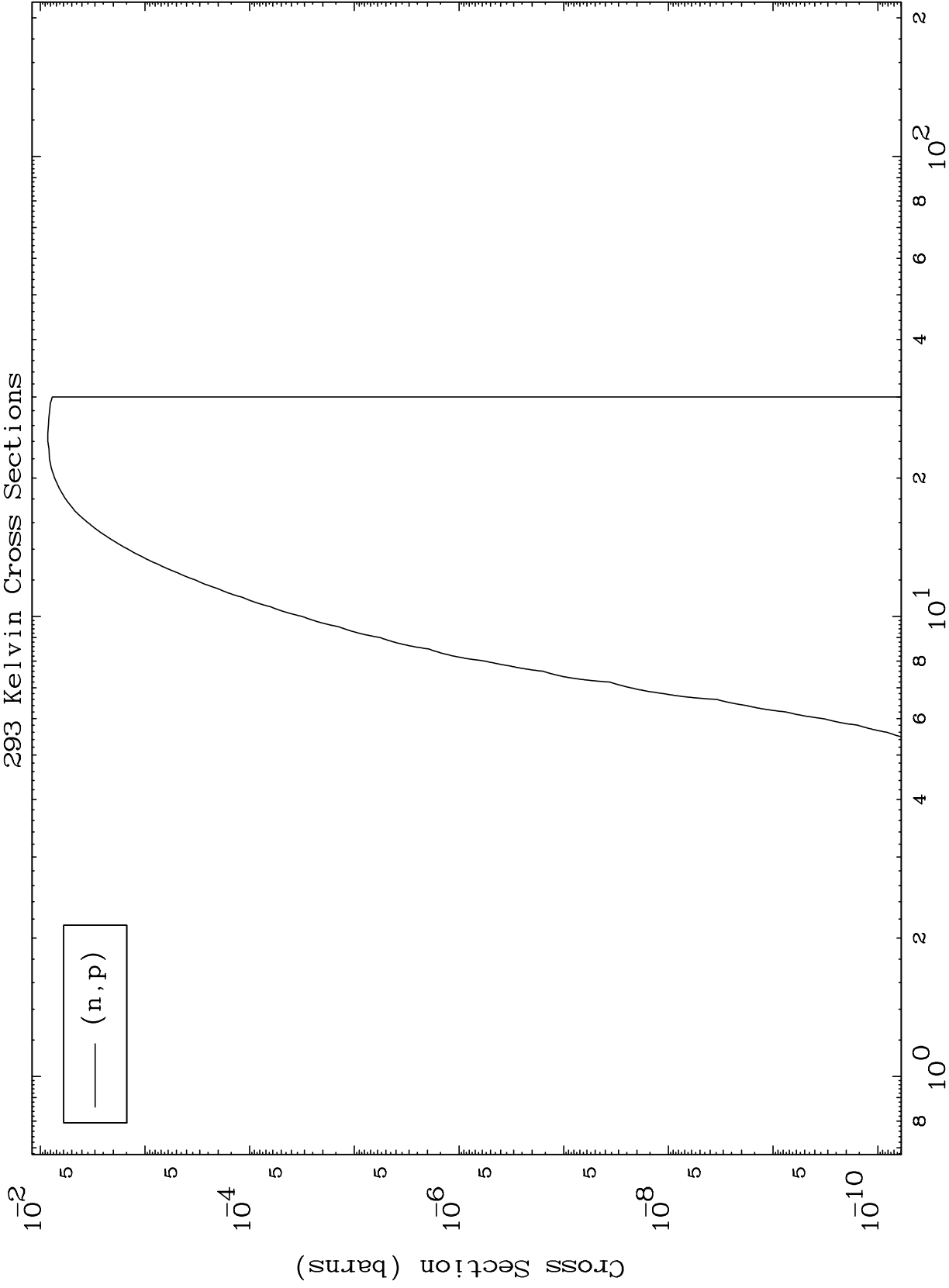
Incident Energy (MeV)

83-Bi-216m

MAT 8347

(n,p) Levels  
293 Kelvin Cross Sections

83-Bi-216m



14

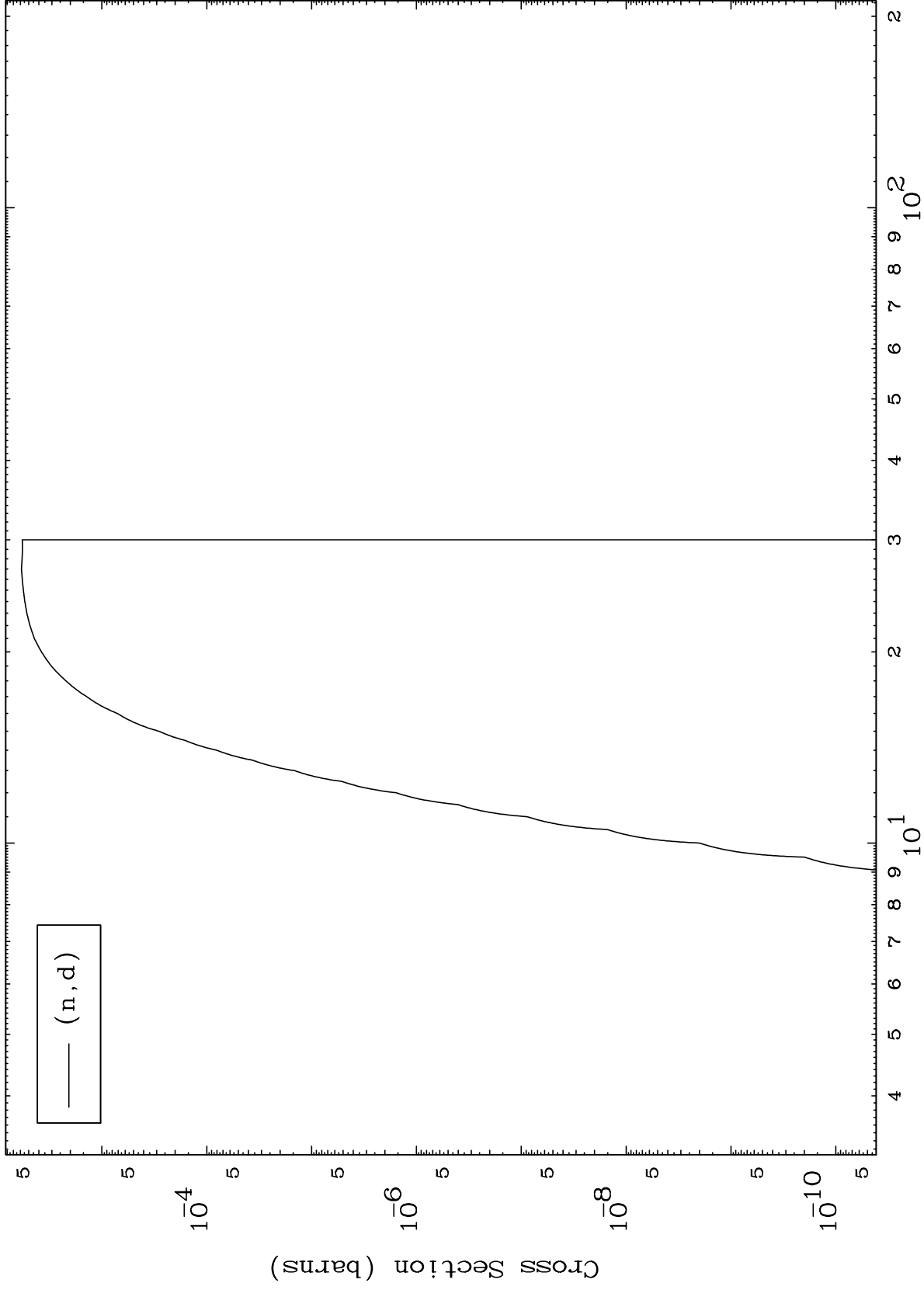
Incident Energy (MeV)

83-Bi-216m

MAT 8347

(n,d) Levels  
293 Kelvin Cross Sections

83-Bi-216m



15

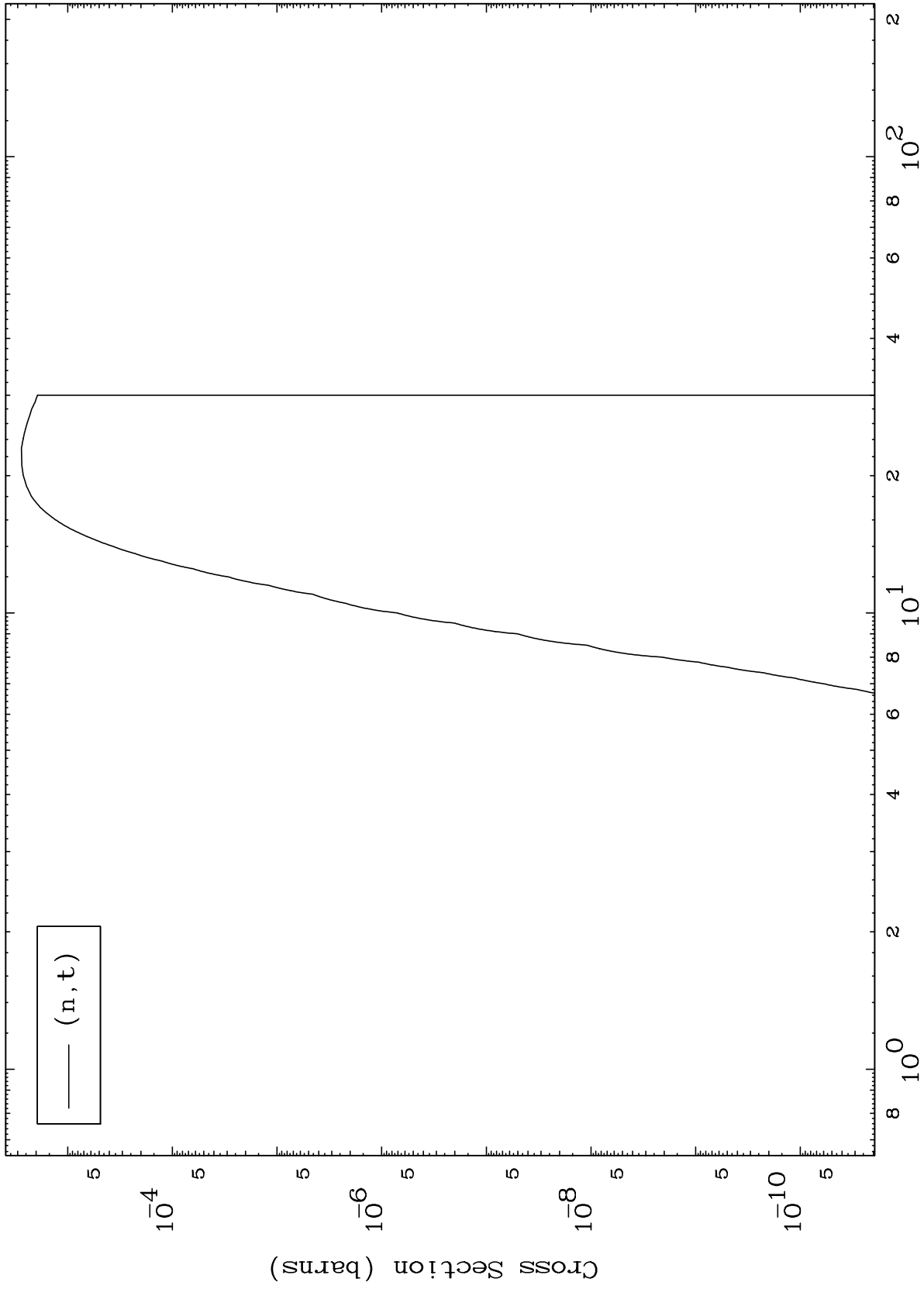
Incident Energy (MeV)

83-Bi-216m

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(n,t) Levels  
293 Kelvin Cross Sections

83-Bi-216m



16

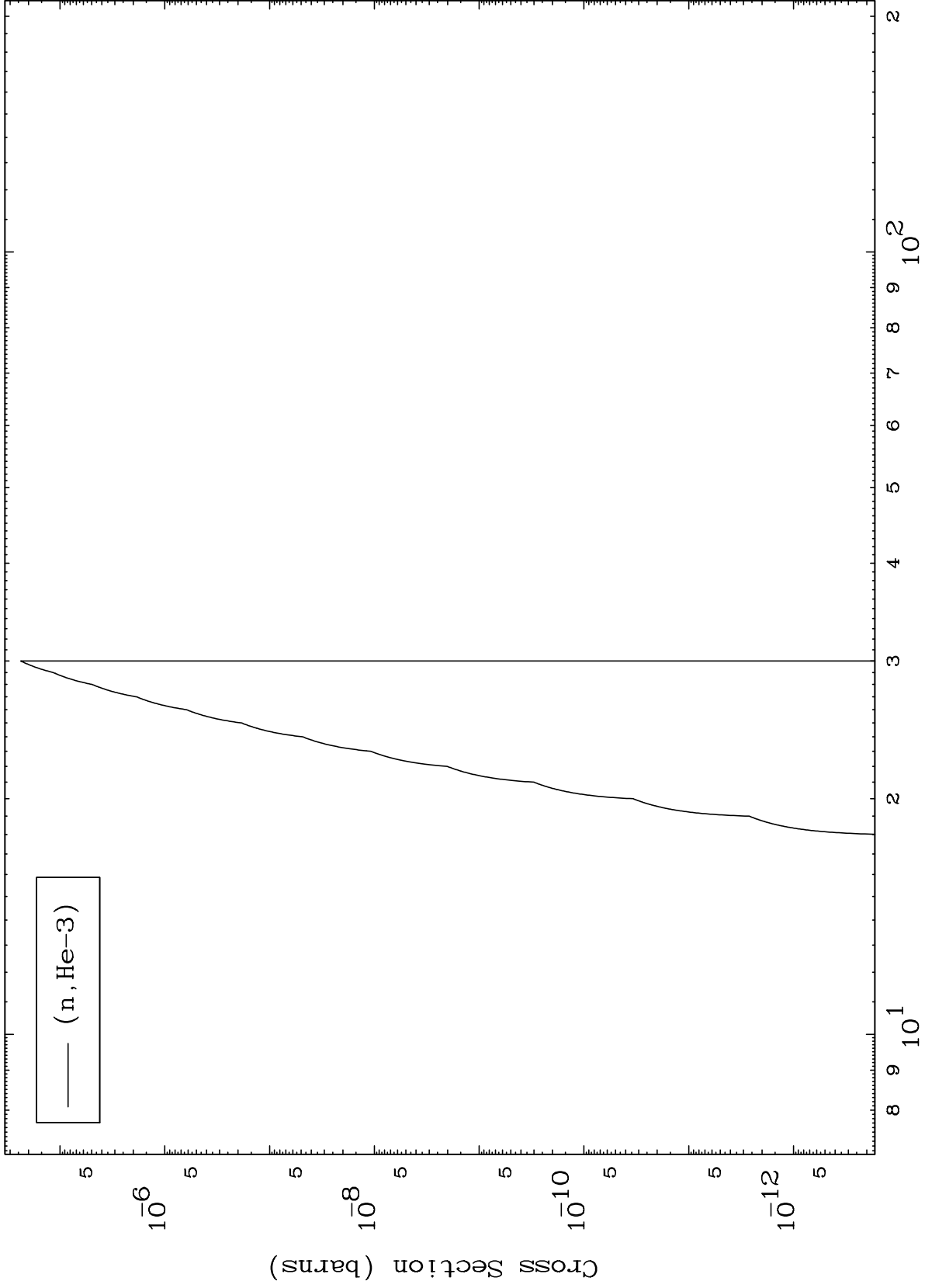
Incident Energy (MeV)

83-Bi-216m

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(n,He3) Levels  
293 Kelvin Cross Sections

83-Bi-216m



17

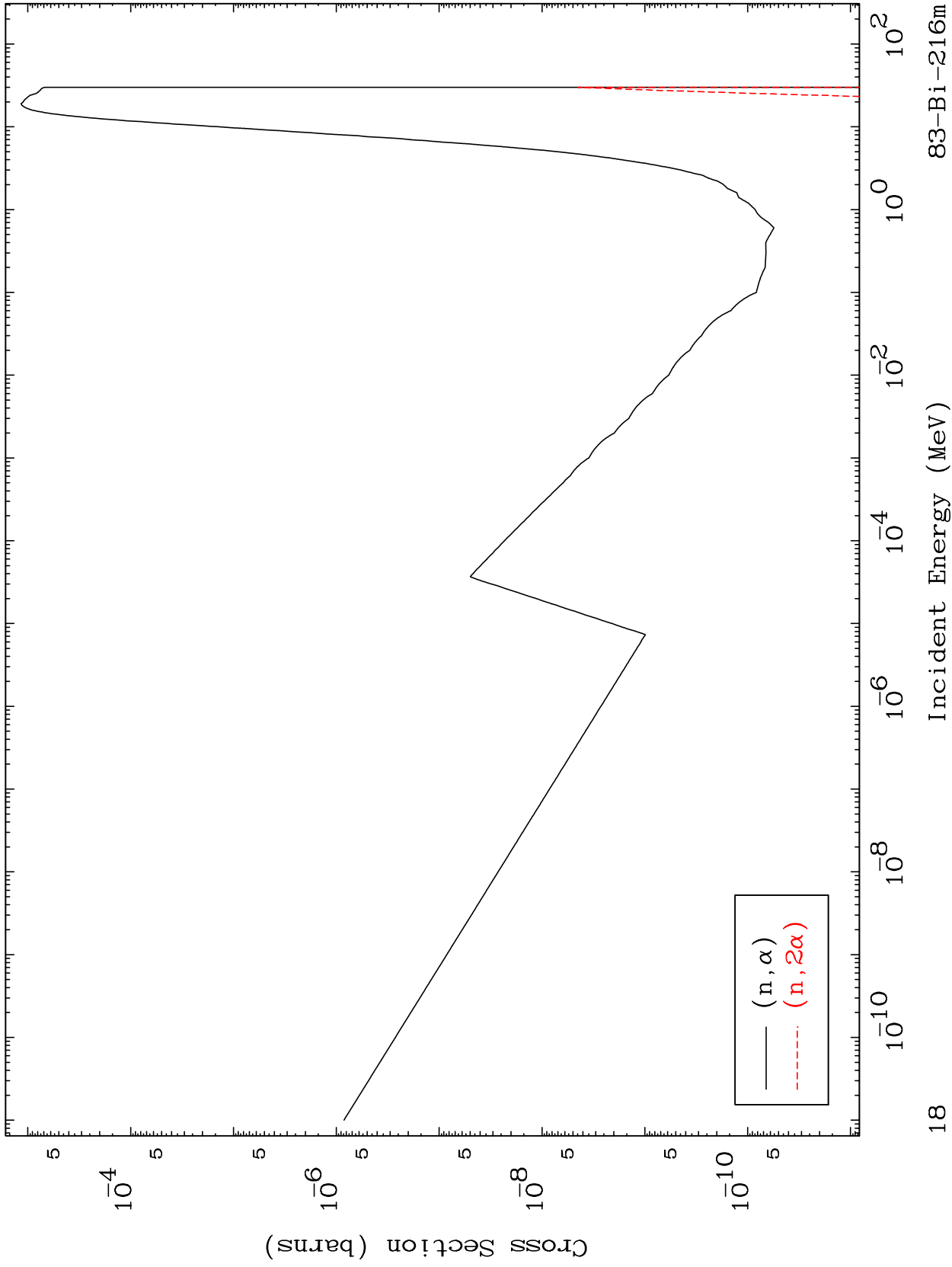
Incident Energy (MeV)

83-Bi-216m

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(n,  $\alpha$ ) Levels  
293 Kelvin Cross Sections

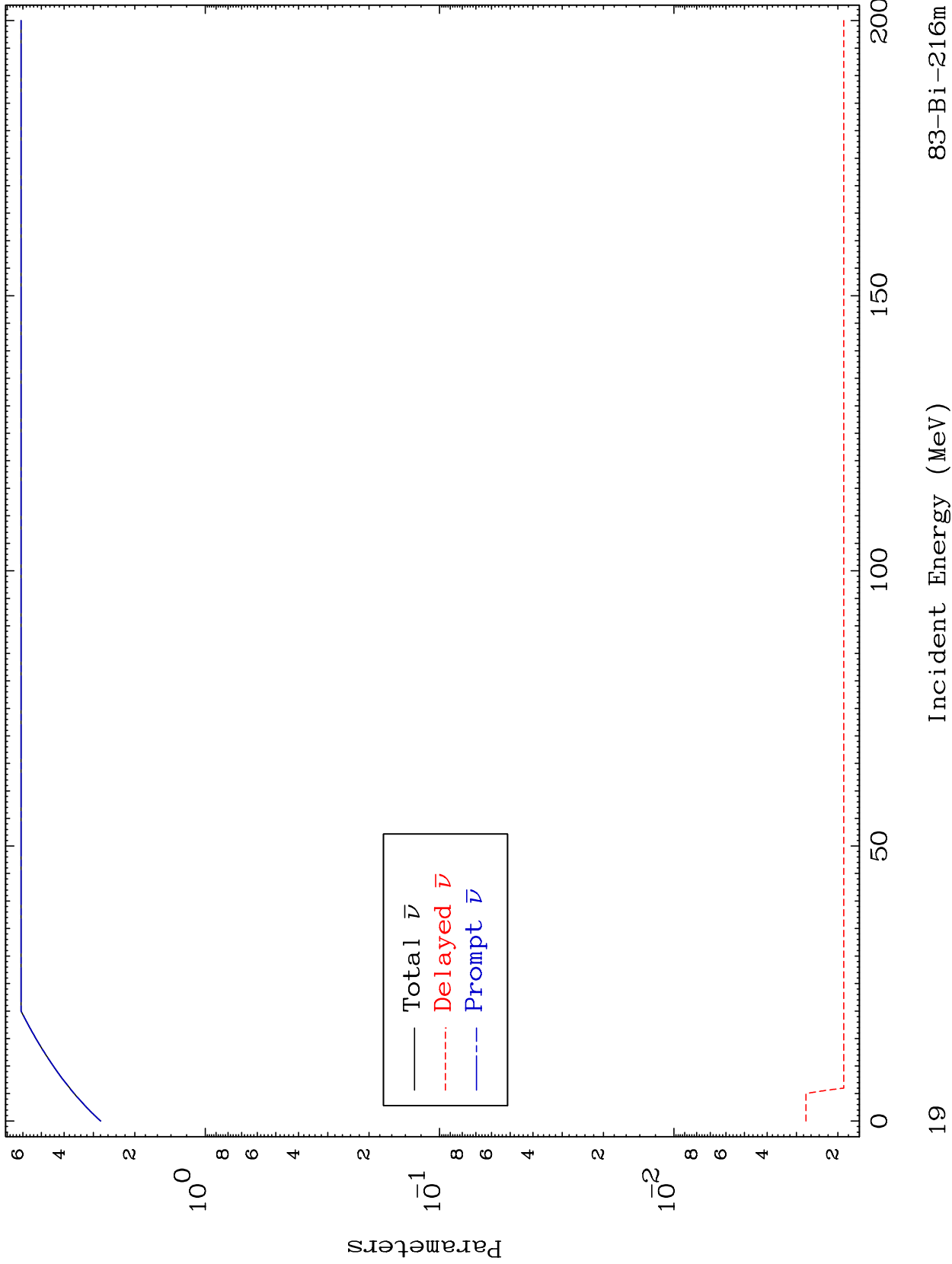
83-Bi-216m



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Energy Release  
Parameters

$^{83}\text{Bi}-216\text{m}$



19

Incident Energy (MeV)

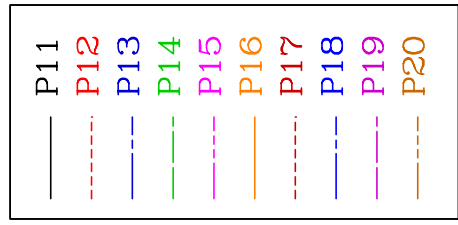
$^{83}\text{Bi}-216\text{m}$



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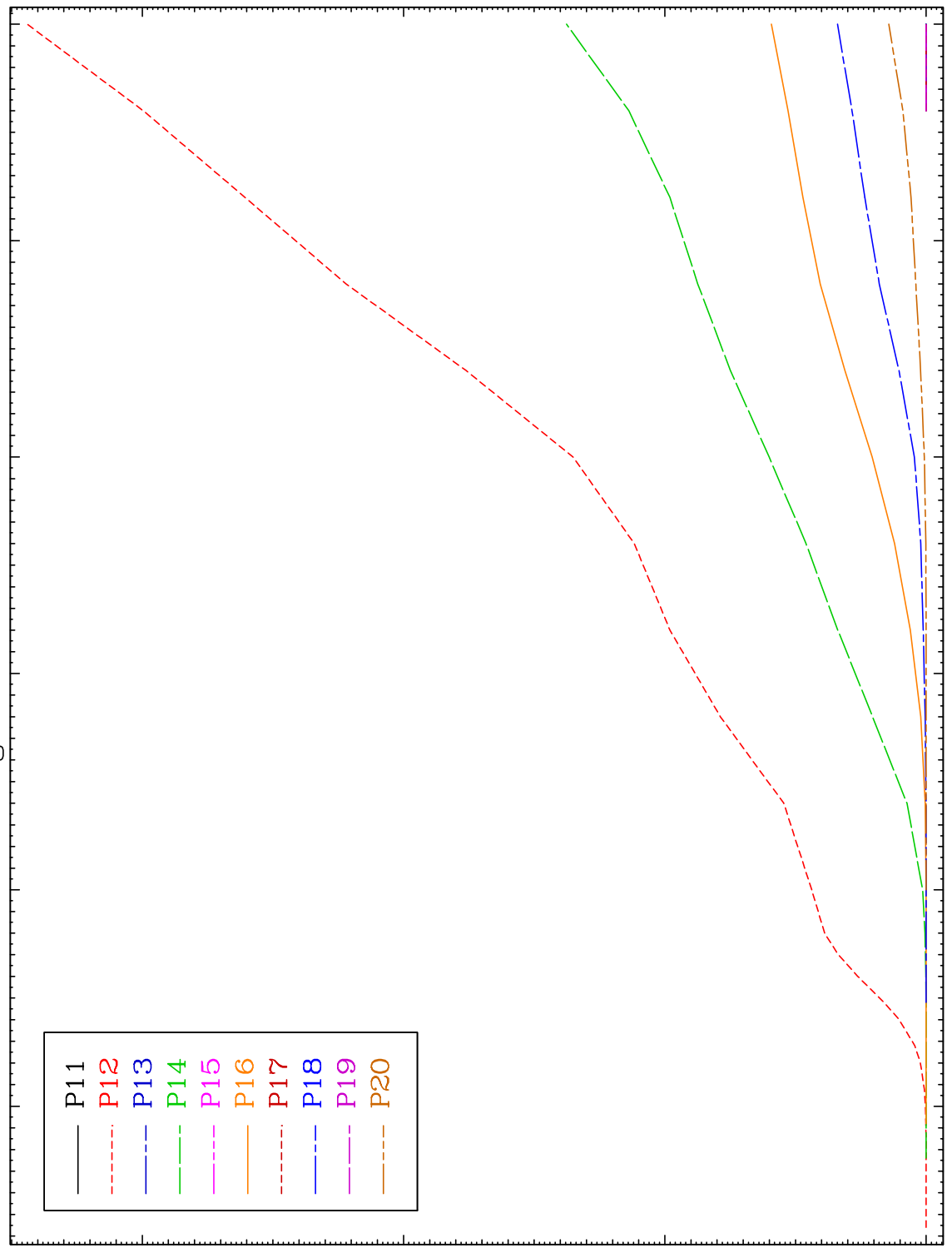
Elastic Legendre Coefficients

<sup>83</sup>Bi-<sup>216</sup>m



$\times 10^{-4}$

Legendre (CM)



21

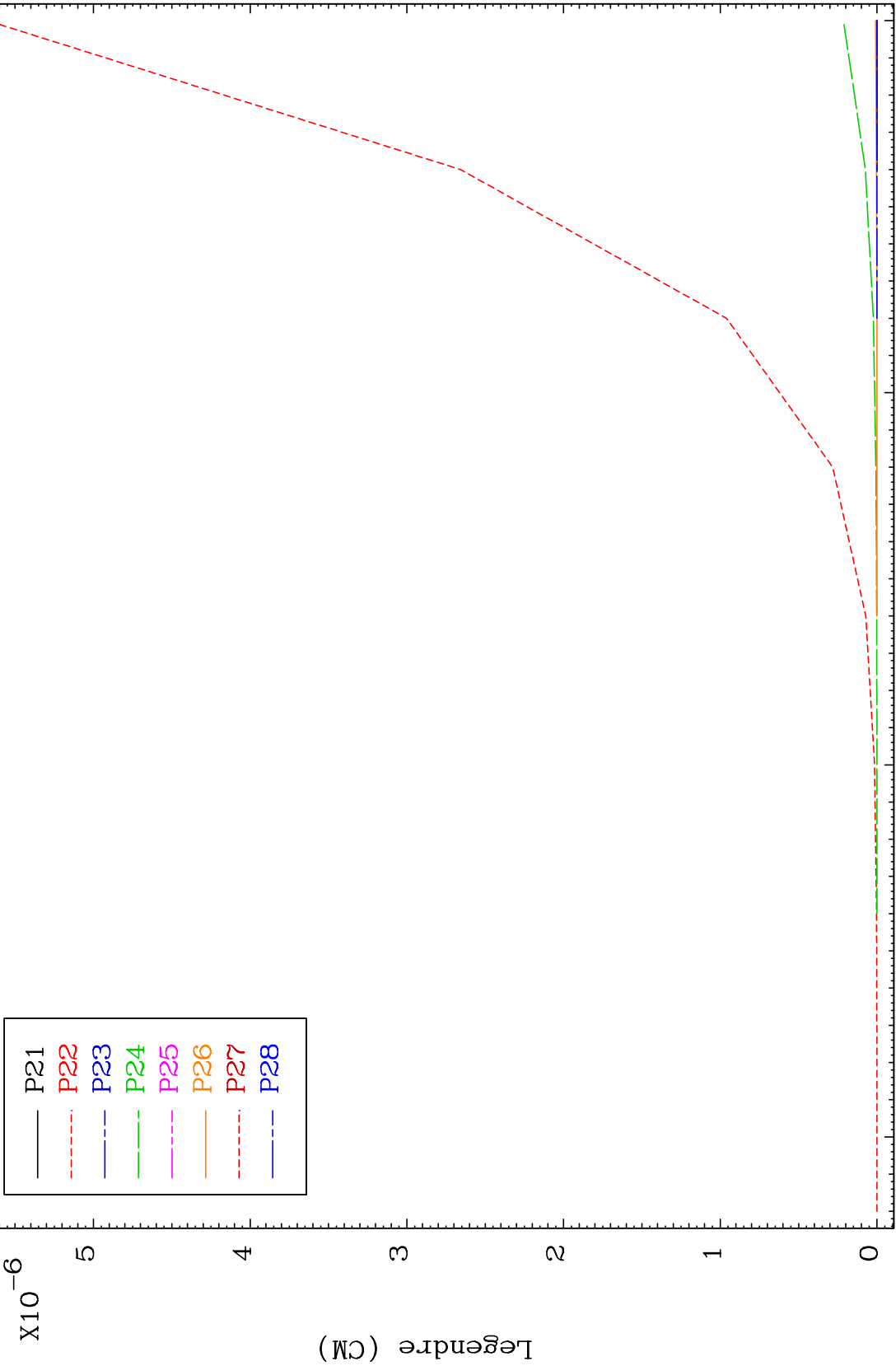
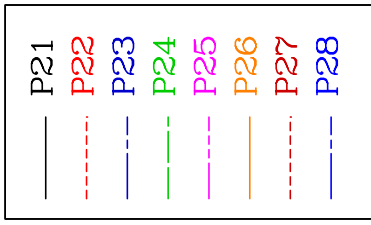
Incident Energy (MeV)

<sup>83</sup>Bi-<sup>216</sup>m

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Elastic Legendre Coefficients

83-Bi-216m



22

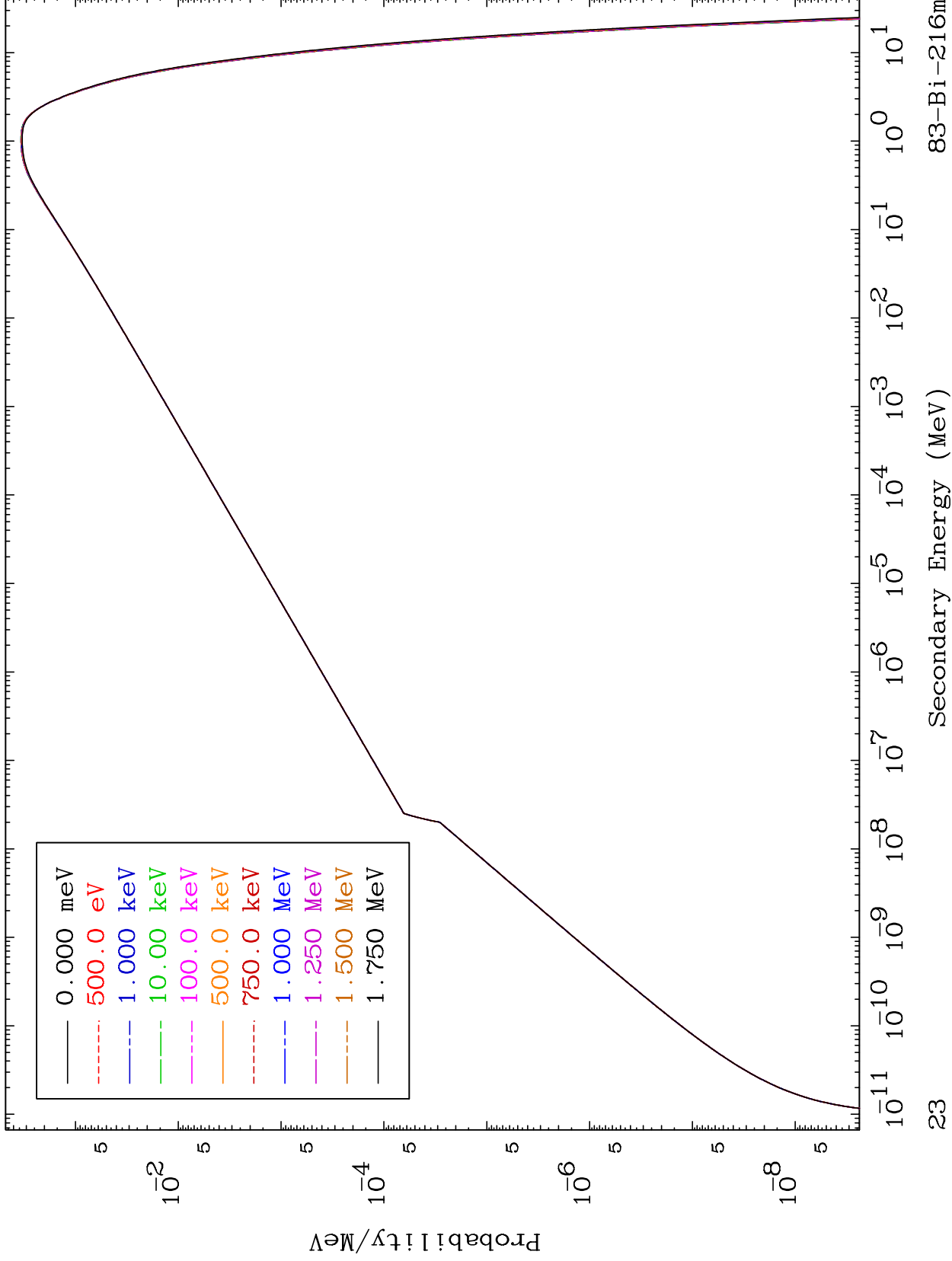
Incident Energy (MeV)

83-Bi-216m

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### Fission Energy Distributions

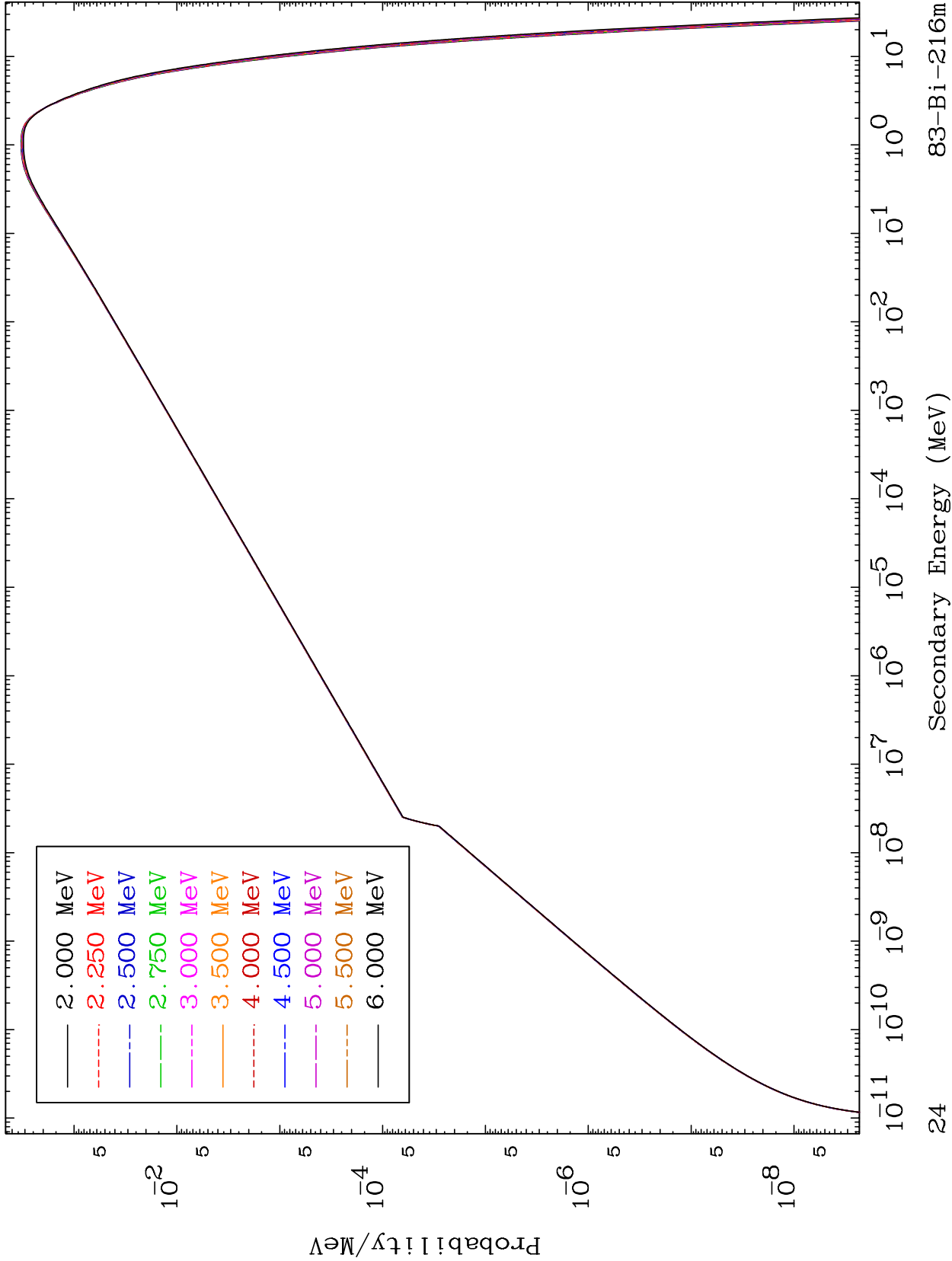
<sup>83</sup>Bi-216m



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### Fission Energy Distributions

<sup>83</sup>Bi-216m



<sup>83</sup>Bi-216m

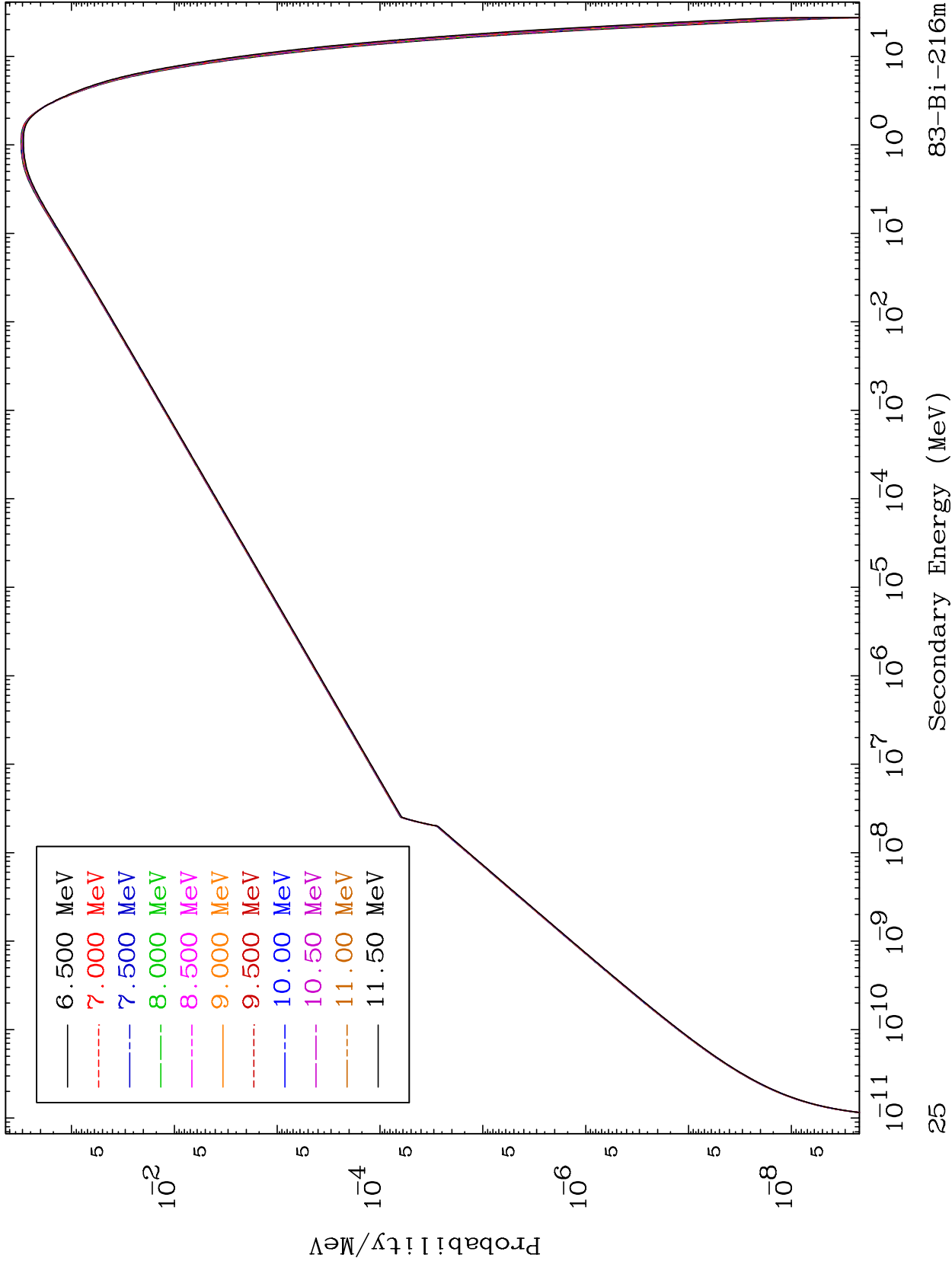
Secondary Energy (MeV)

24

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### Fission Energy Distributions

<sup>83</sup>Bi-216m



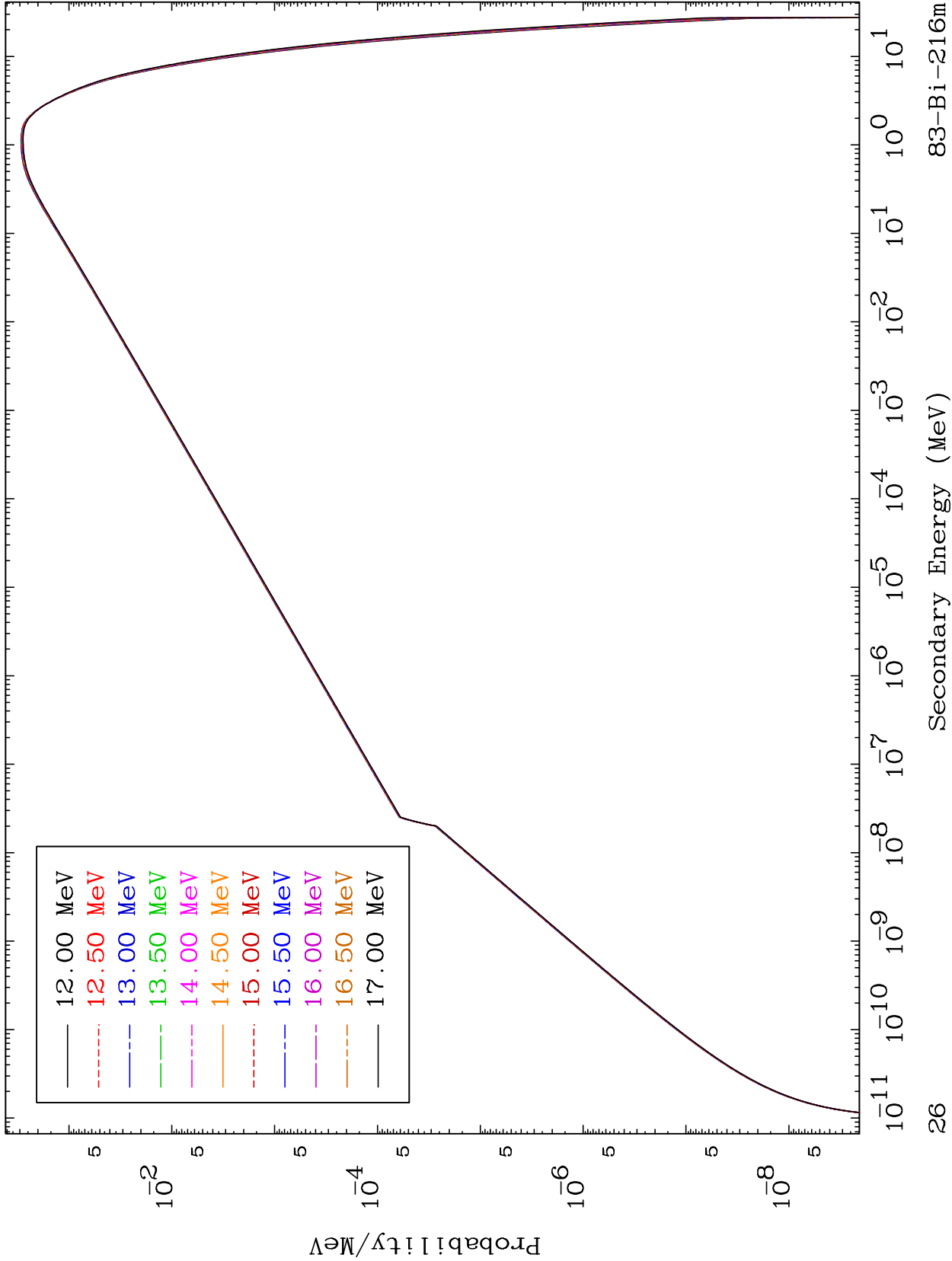
<sup>83</sup>Bi-216m

Secondary Energy (MeV)

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### Fission Energy Distributions

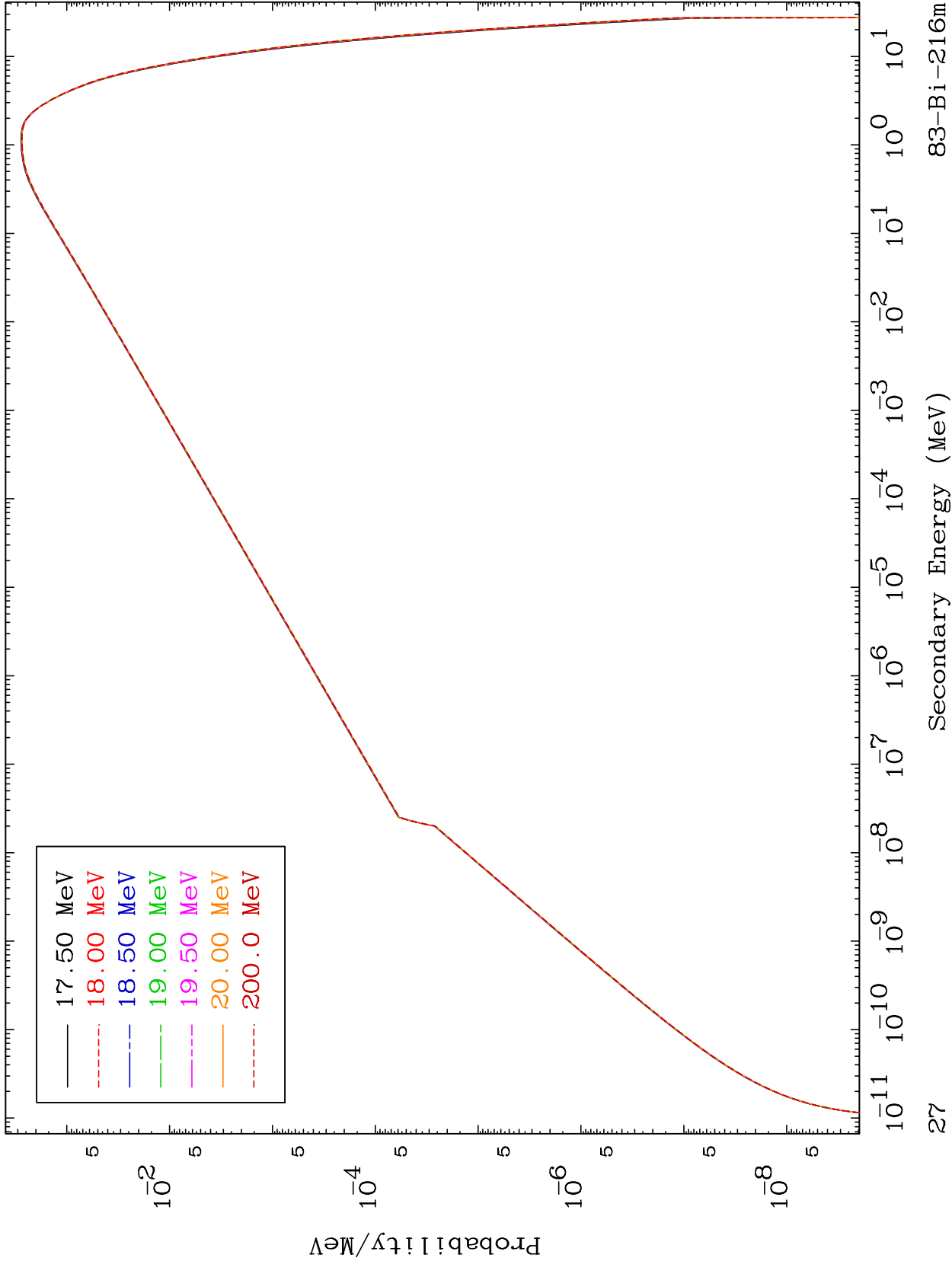
<sup>83</sup>Bi-216m



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### Fission Energy Distributions

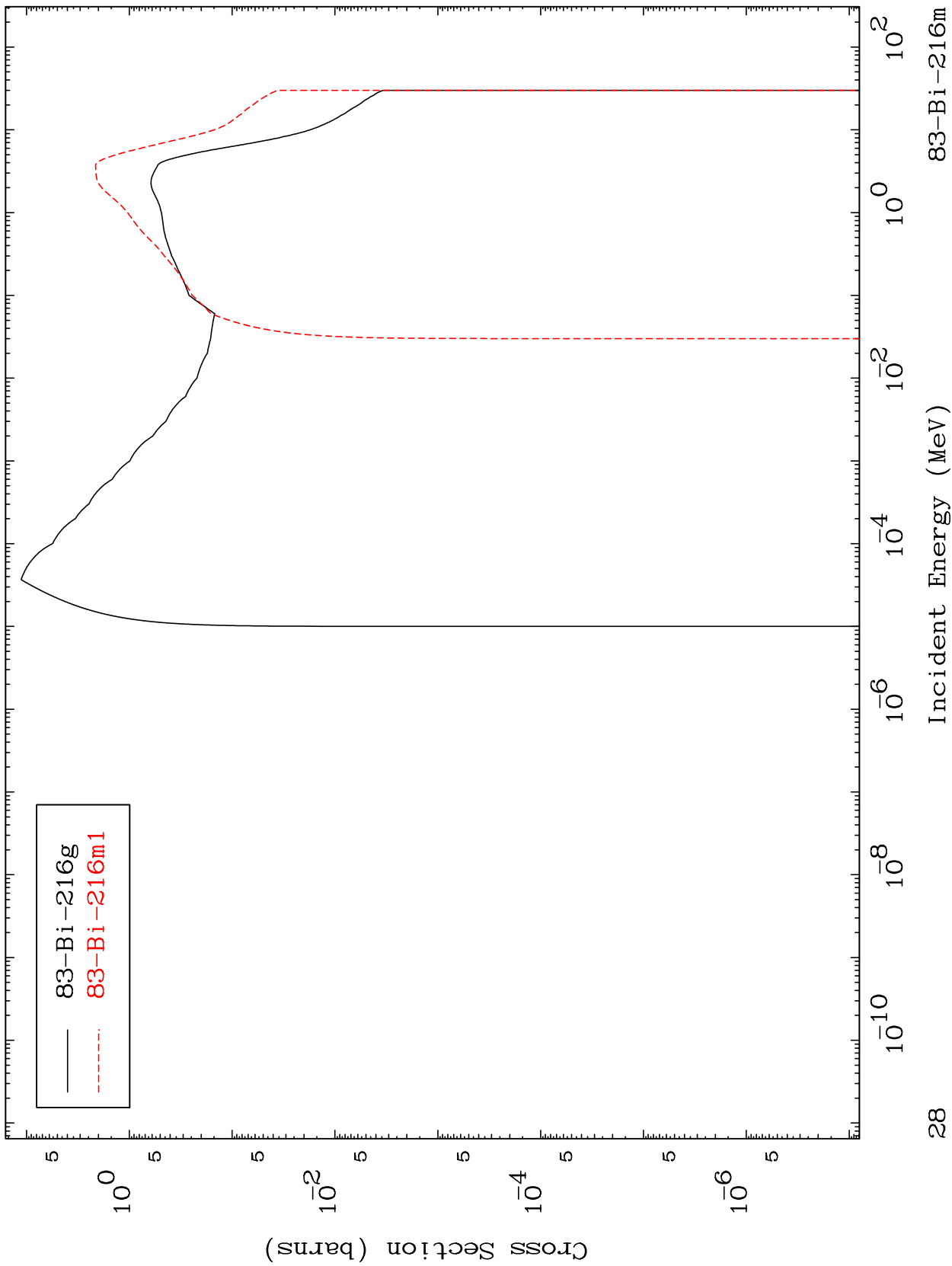
<sup>83</sup>Bi-216m



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83-Bi-216m

Inelastic  
Radionuclide Production Cross Section

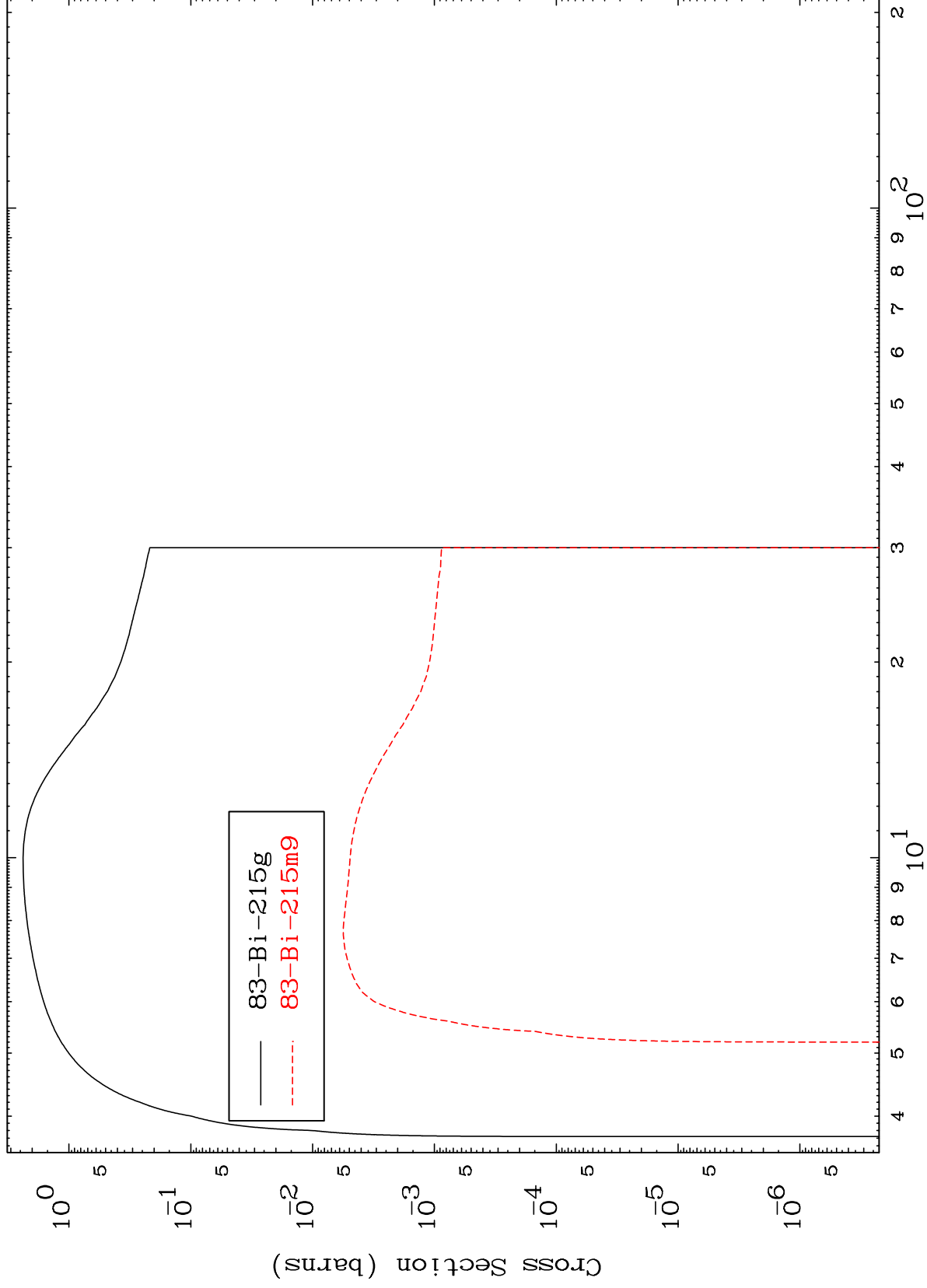


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(n,2n)

83-Bi-216m

Radionuclide Production Cross Section



29

Incident Energy (MeV)

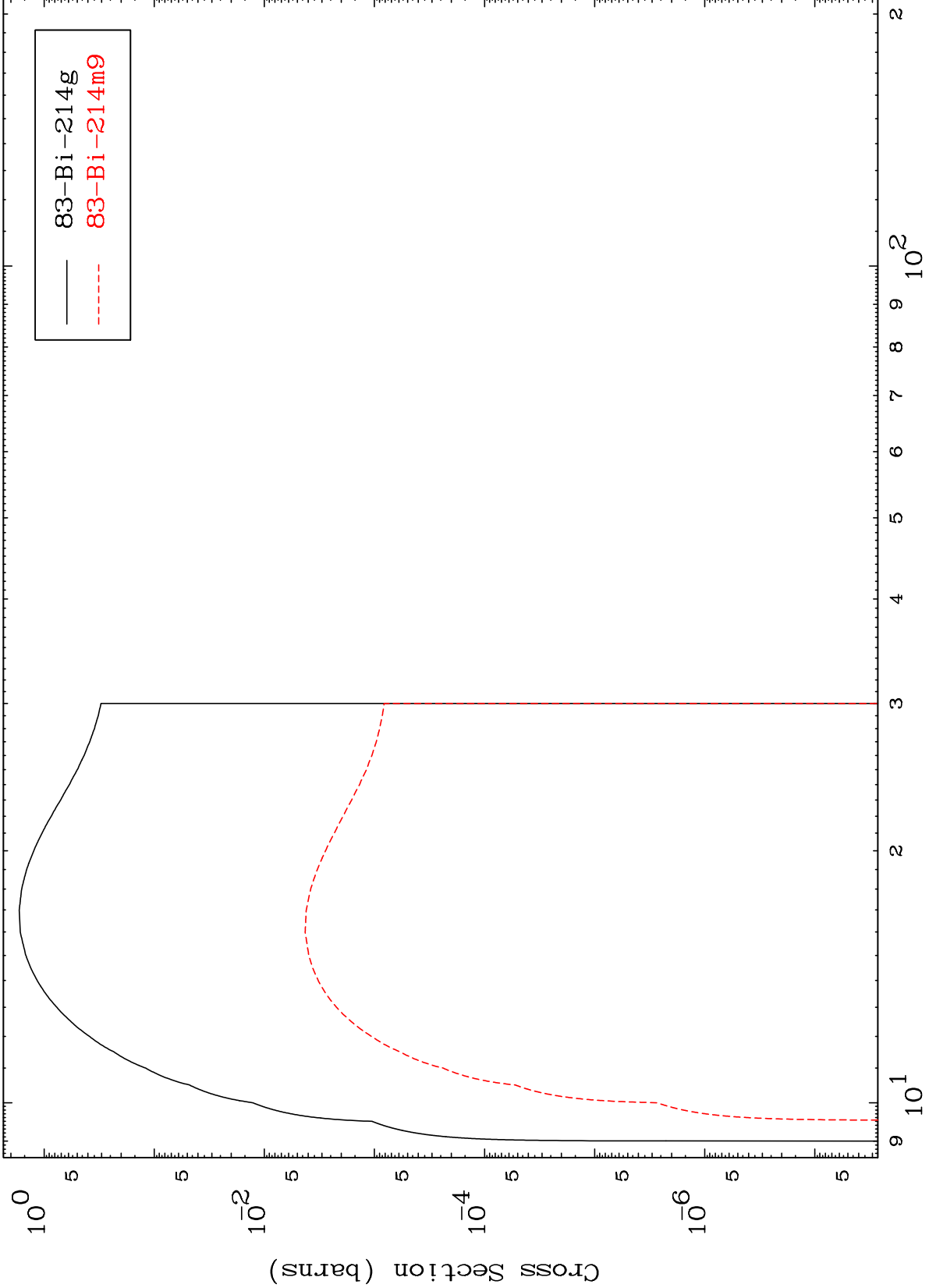
83-Bi-216m

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(n,3n)

83-Bi-216m

Radionuclide Production Cross Section



Incident Energy (MeV)

83-Bi-216m

30