

Program EVALPLOT  
(Version 2021-1)

by

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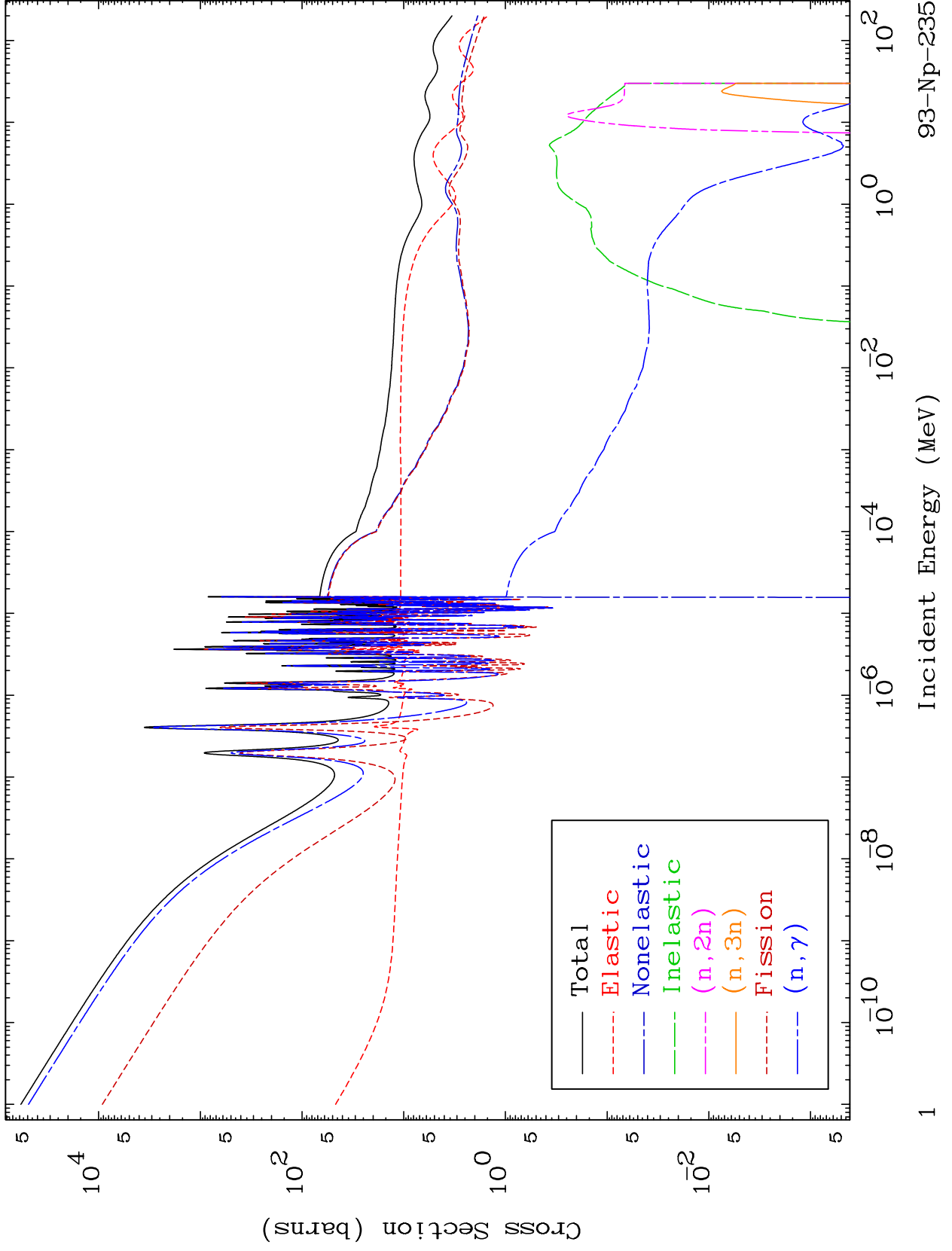
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 9340

Neutron Major  
293 Kelvin Cross Sections

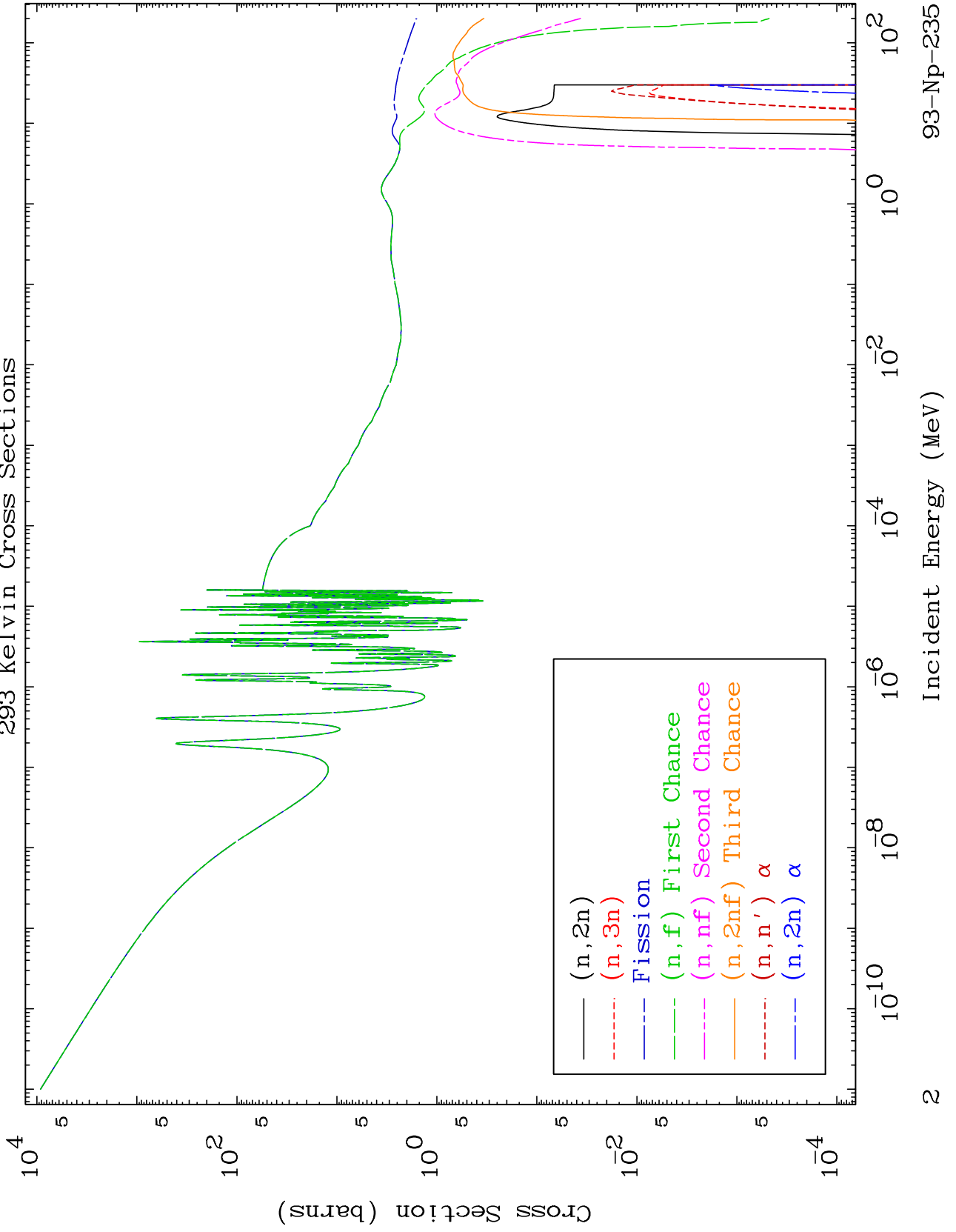
93-Np-235



MAT 9340

Neutron Absorption  
293 Kelvin Cross Sections

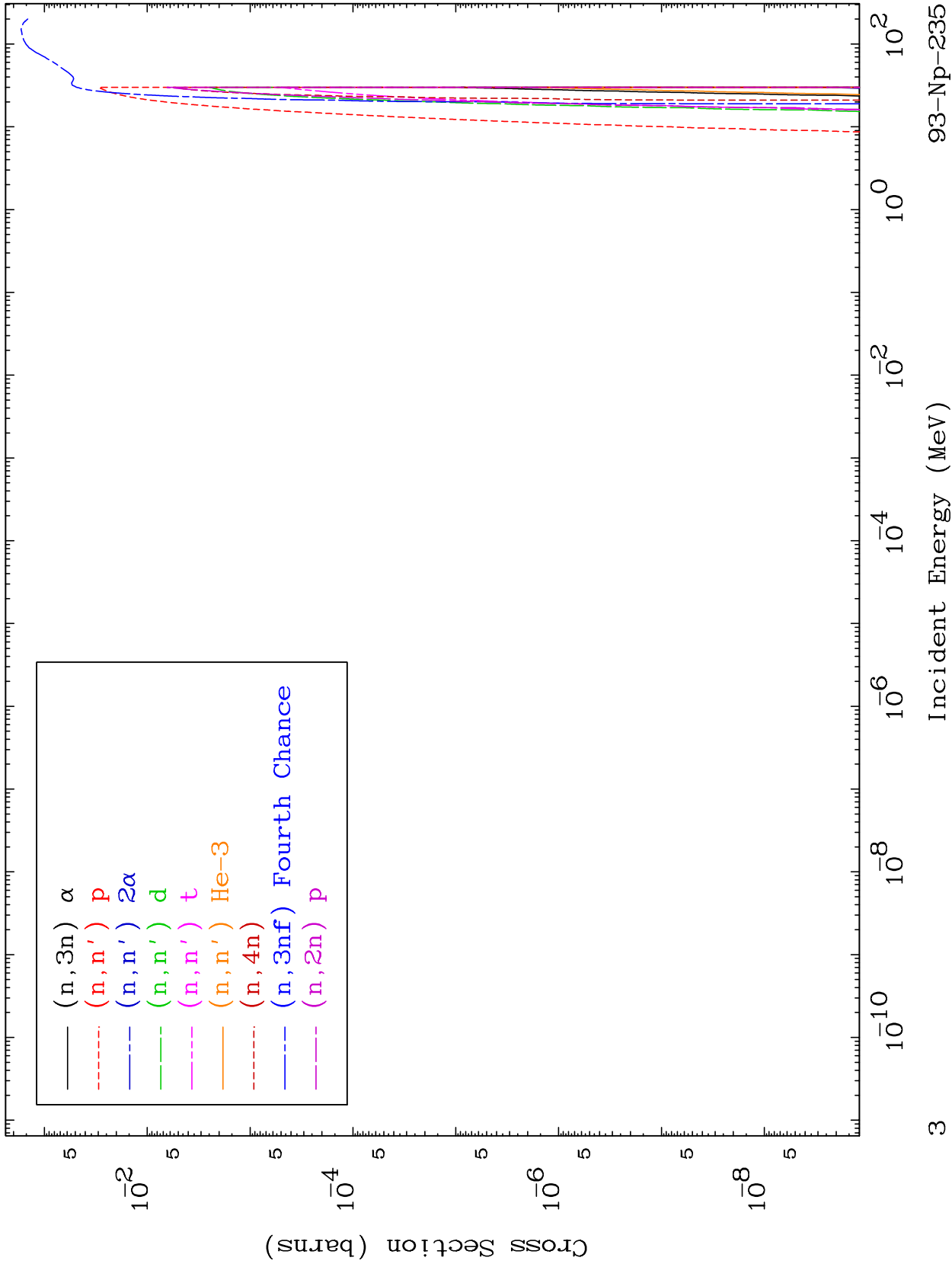
93-Np-235



MAT 9340

Neutron Absorption  
293 Kelvin Cross Sections

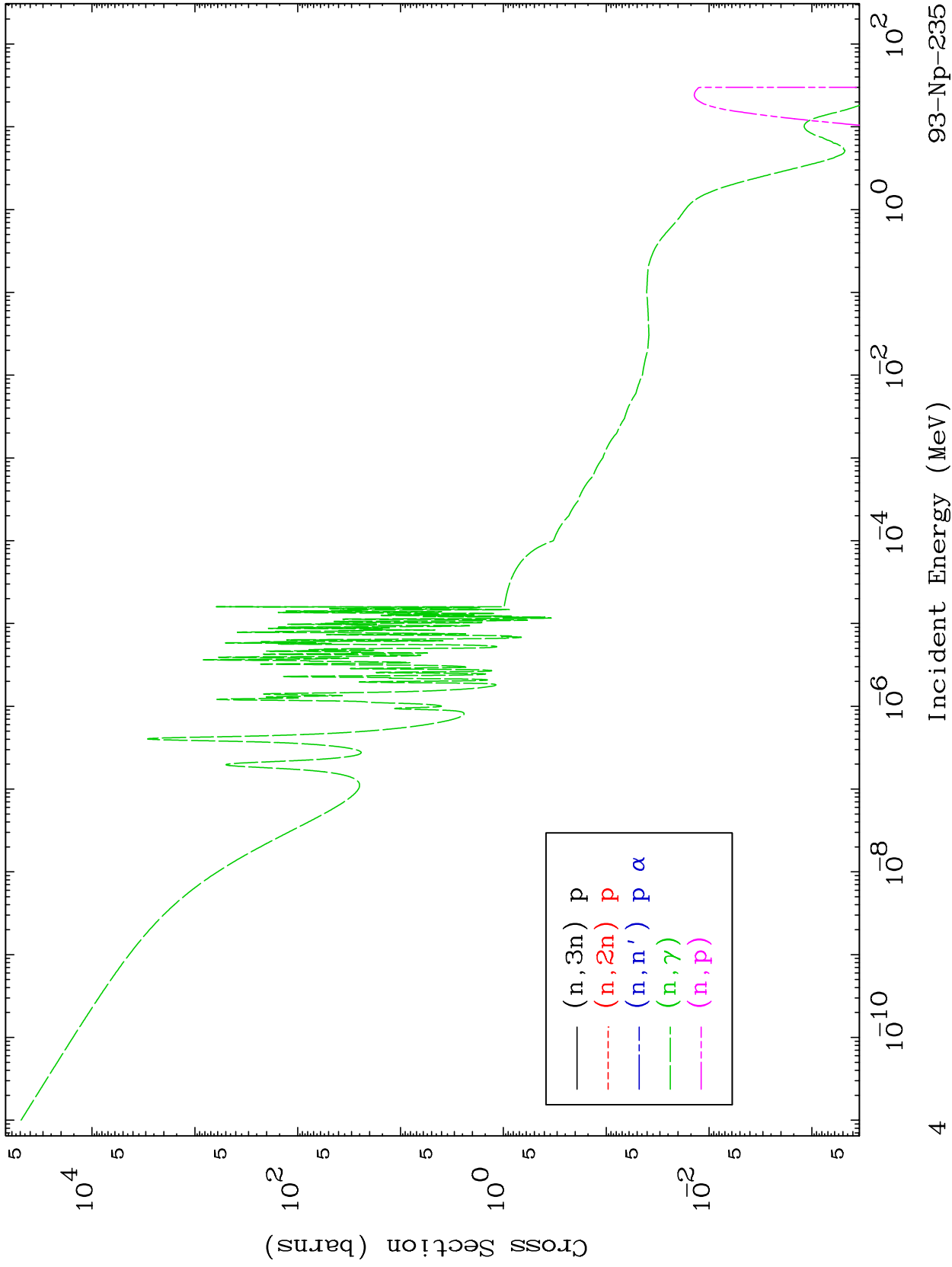
93-Np-235

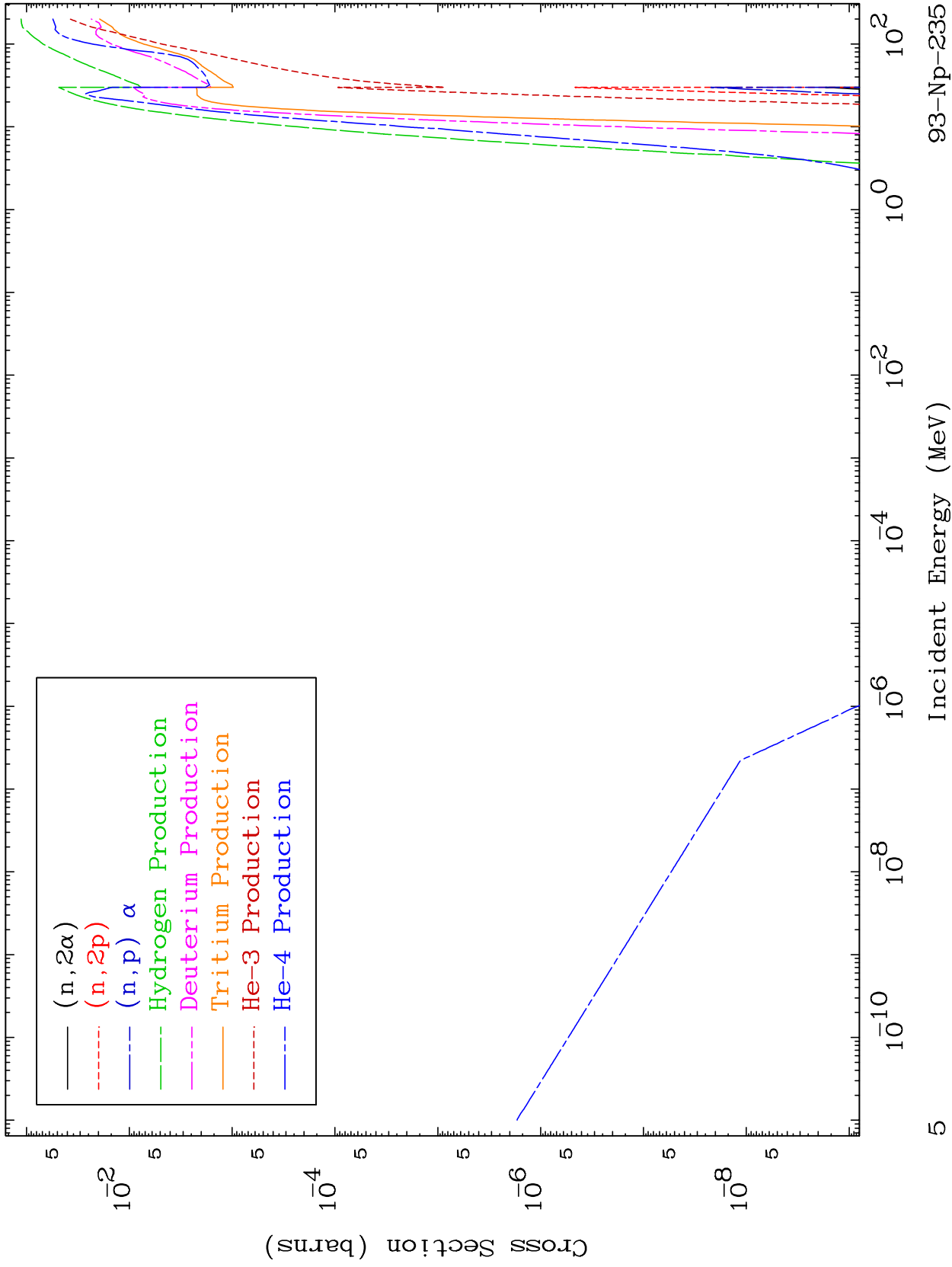


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Neutron Absorption  
293 Kelvin Cross Sections

93-Np-235

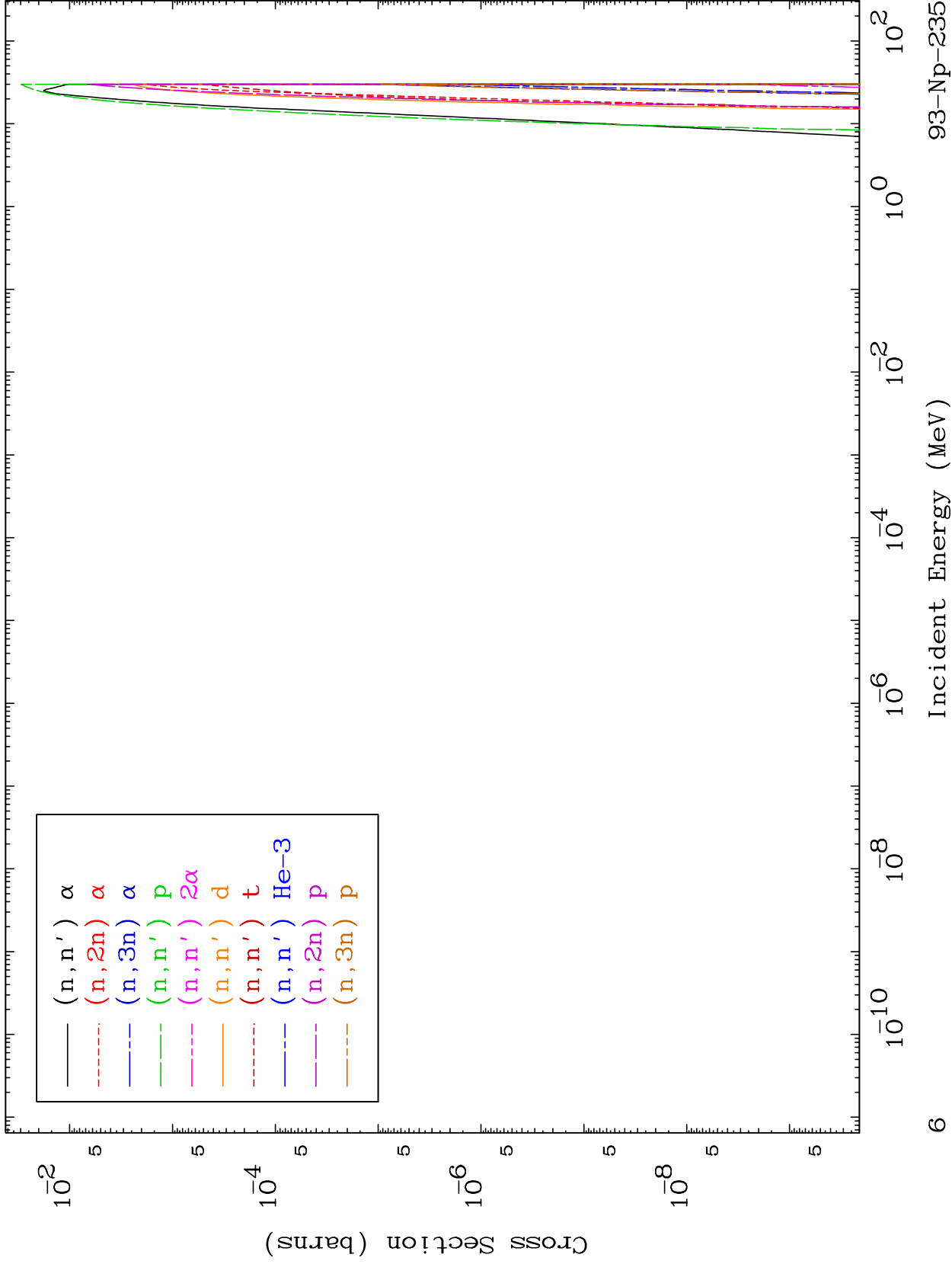




MAT 9340

Charged Particle  
293 Kelvin Cross Sections

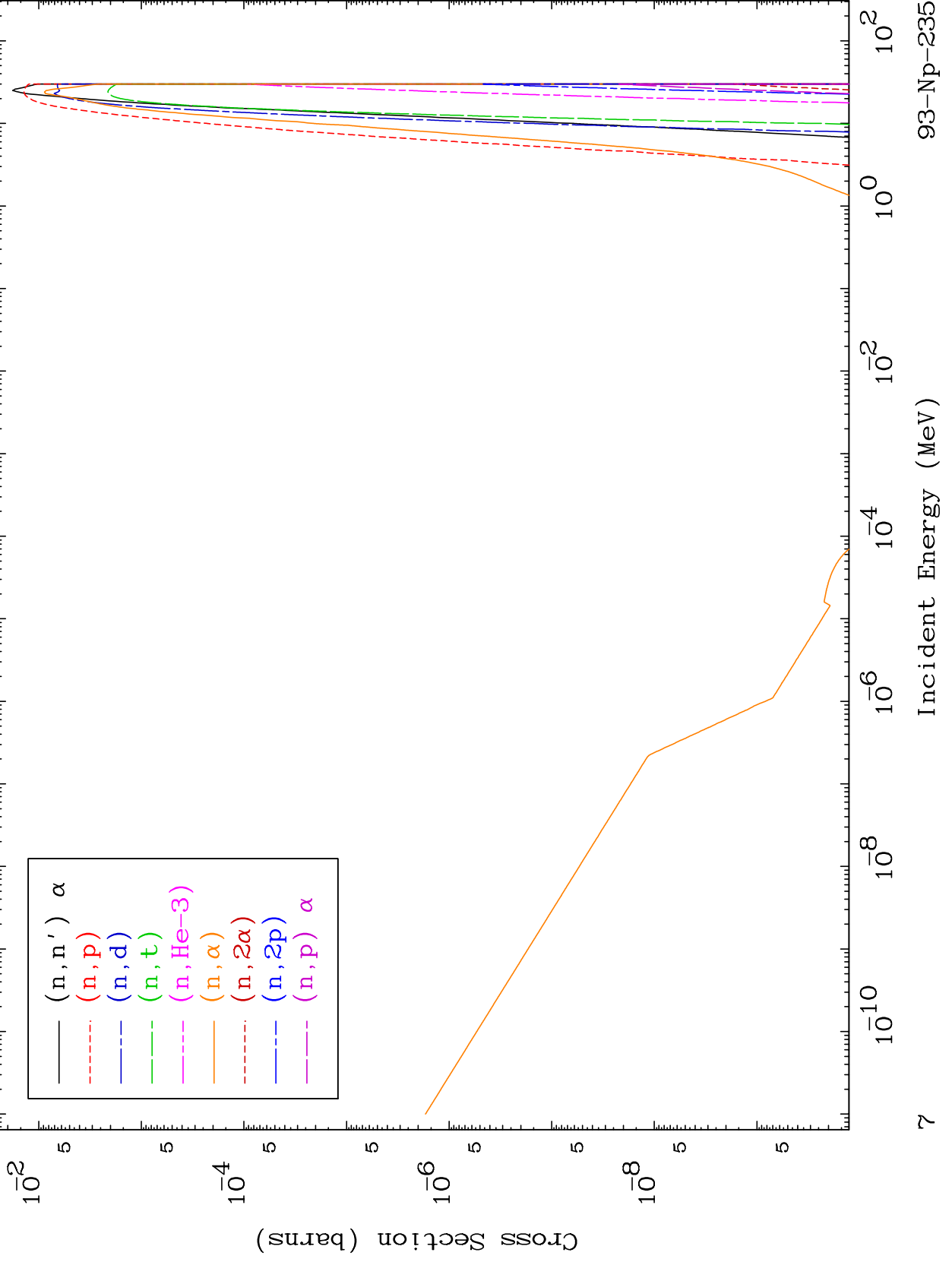
93-Np-235



MAT 9340

Charged Particle  
293 Kelvin Cross Sections

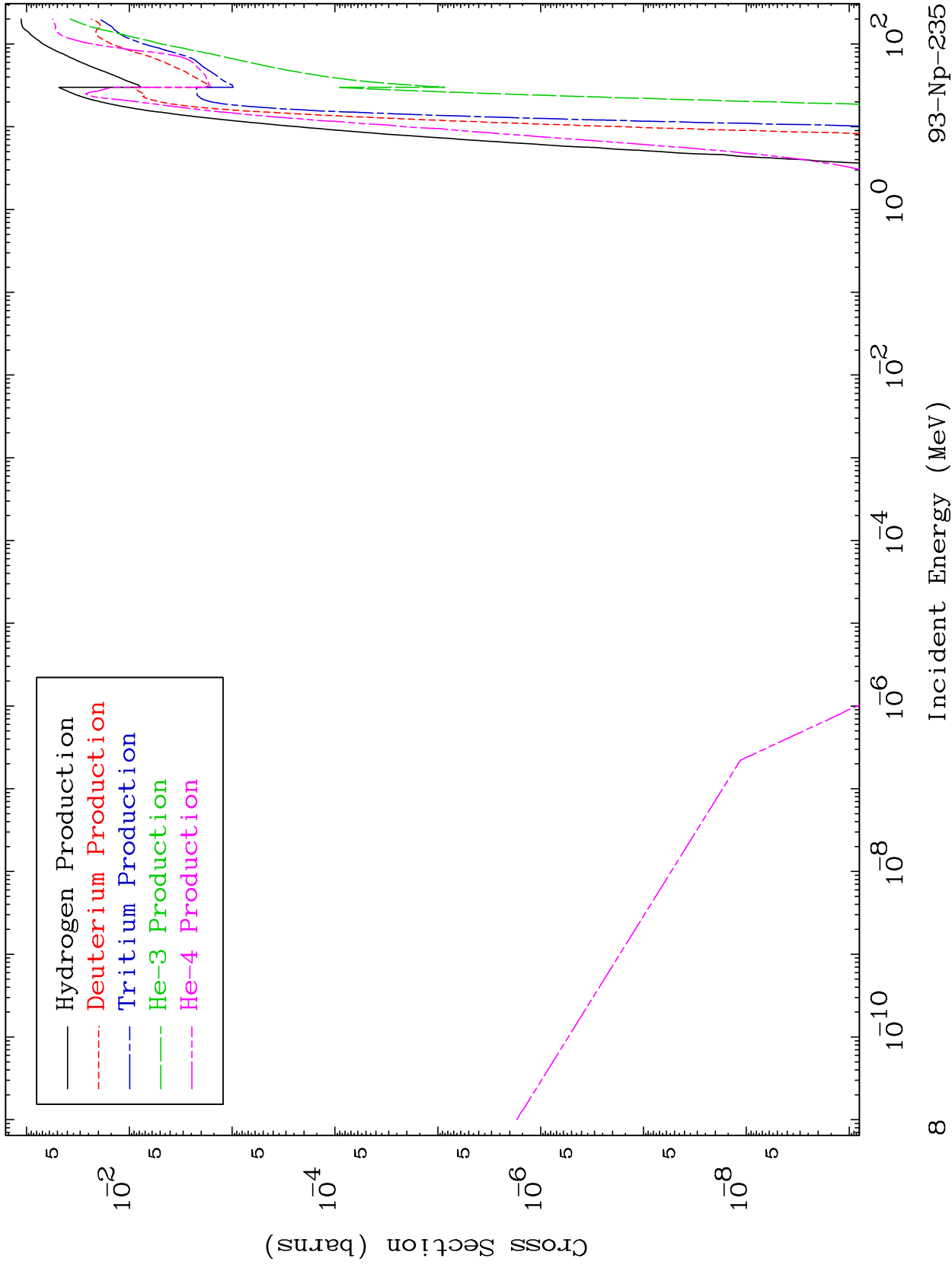
93-Np-235



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Particle Production  
293 Kelvin Cross Sections

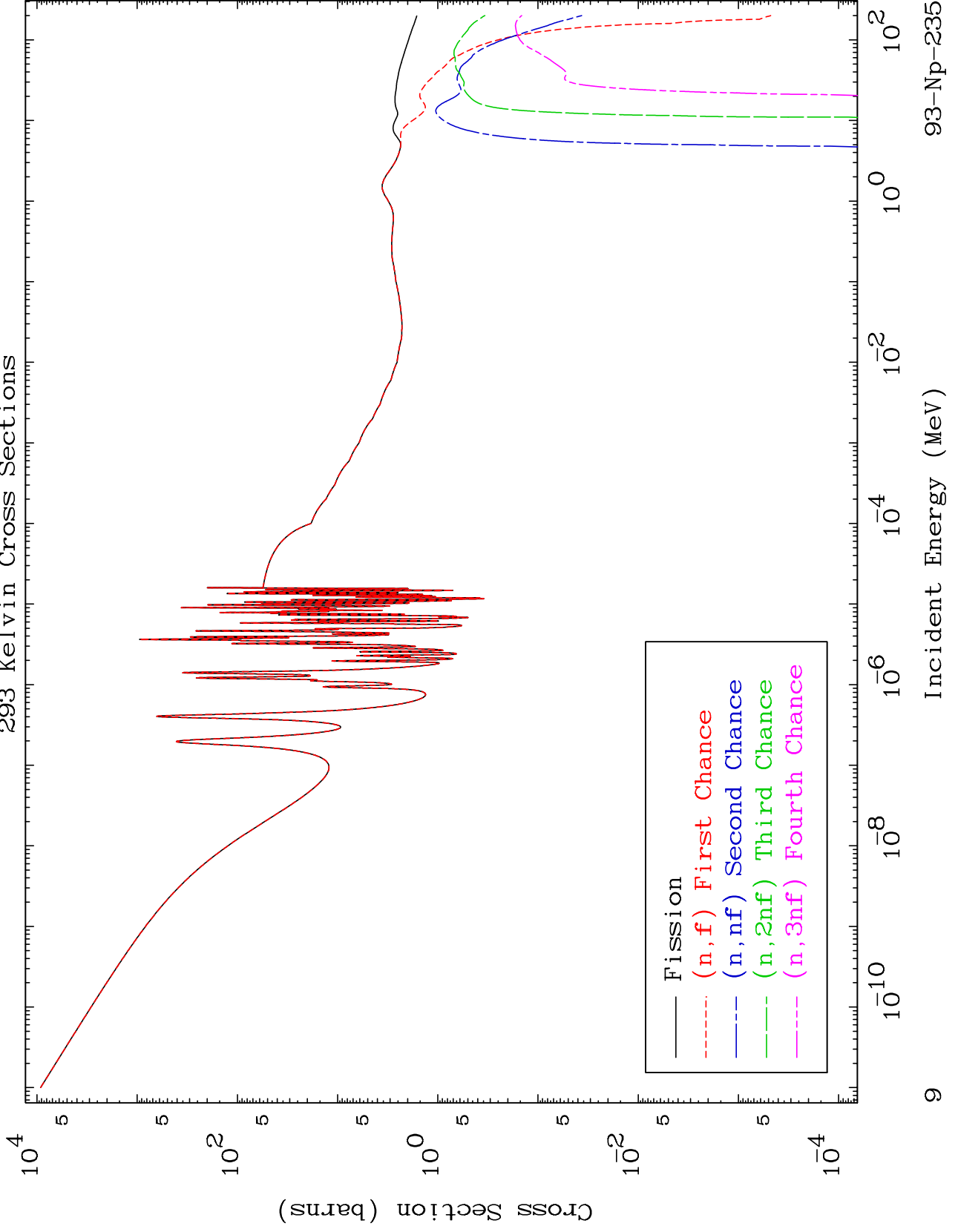
93-Np-235



MAT 9340

Fission  
293 Kelvin Cross Sections

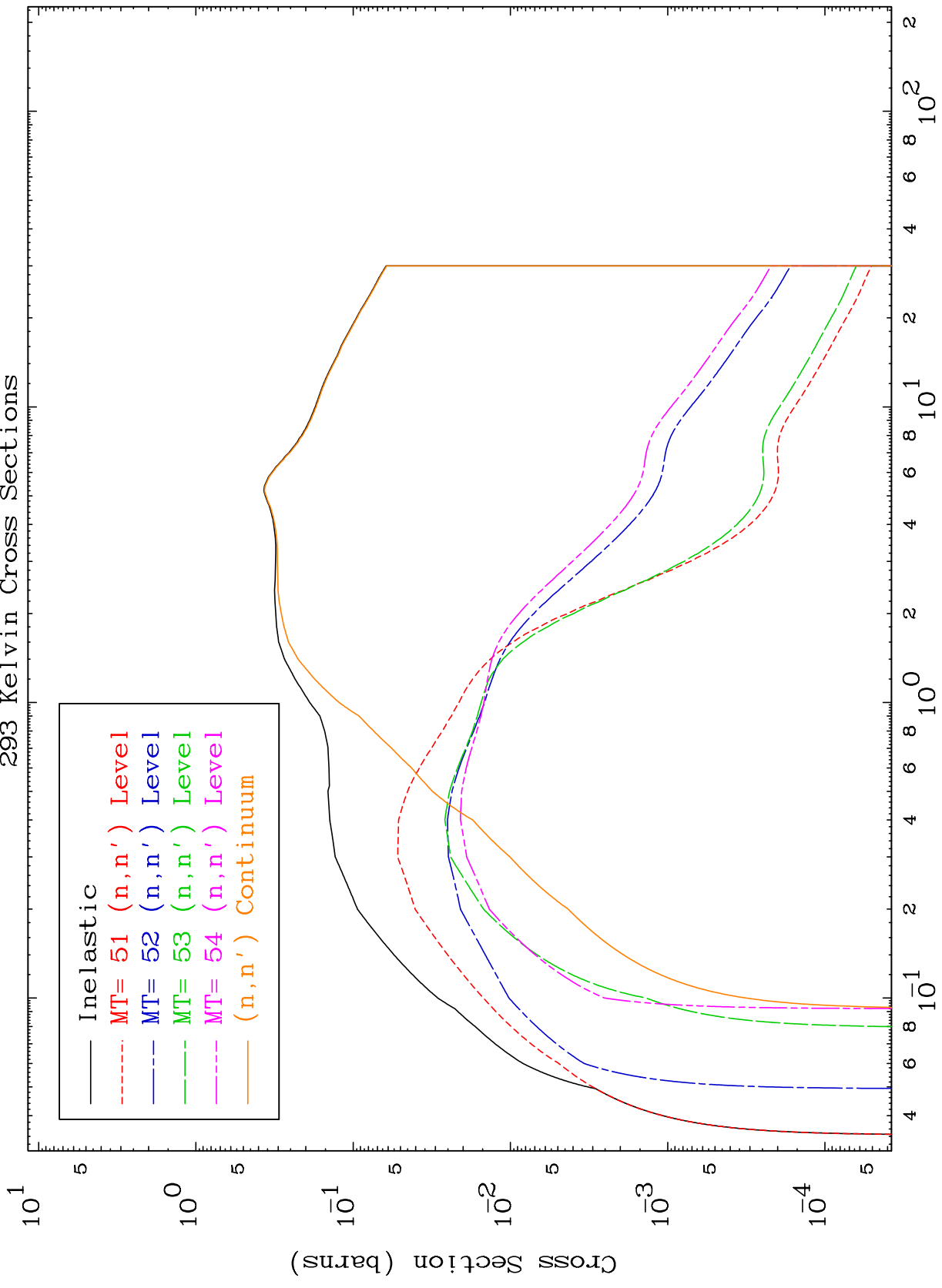
93-Np-235



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(n,n') Levels  
293 Kelvin Cross Sections

93-Np-235



Legend:  
— Inelastic  
- - - MT= 51 (n,n') Level  
- · - MT= 52 (n,n') Level  
- - - MT= 53 (n,n') Level  
- · - MT= 54 (n,n') Level  
— (n,n') Continuum

10

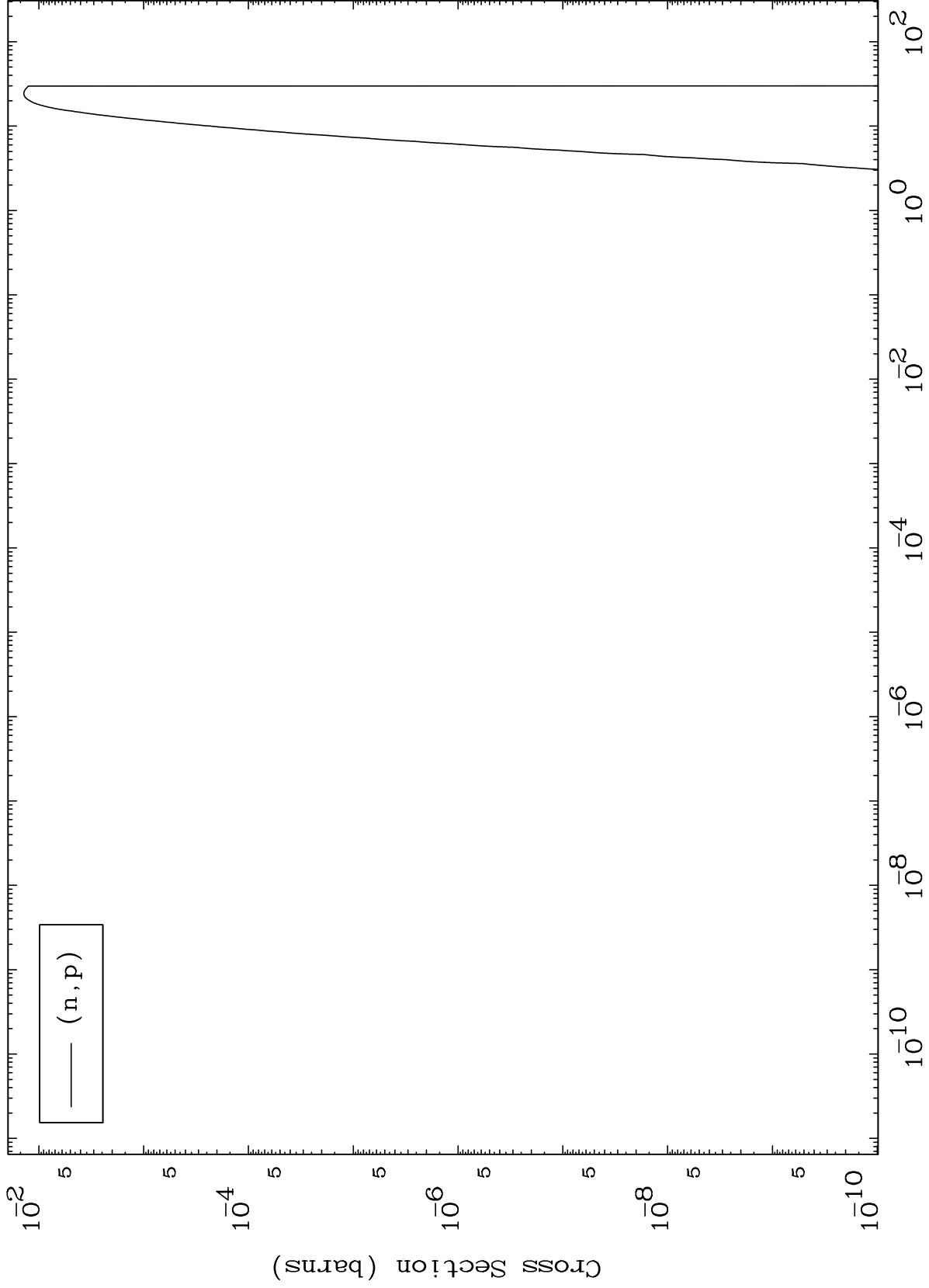
Incident Energy (MeV)

93-Np-235

MAT 9340

(n,p) Levels  
293 Kelvin Cross Sections

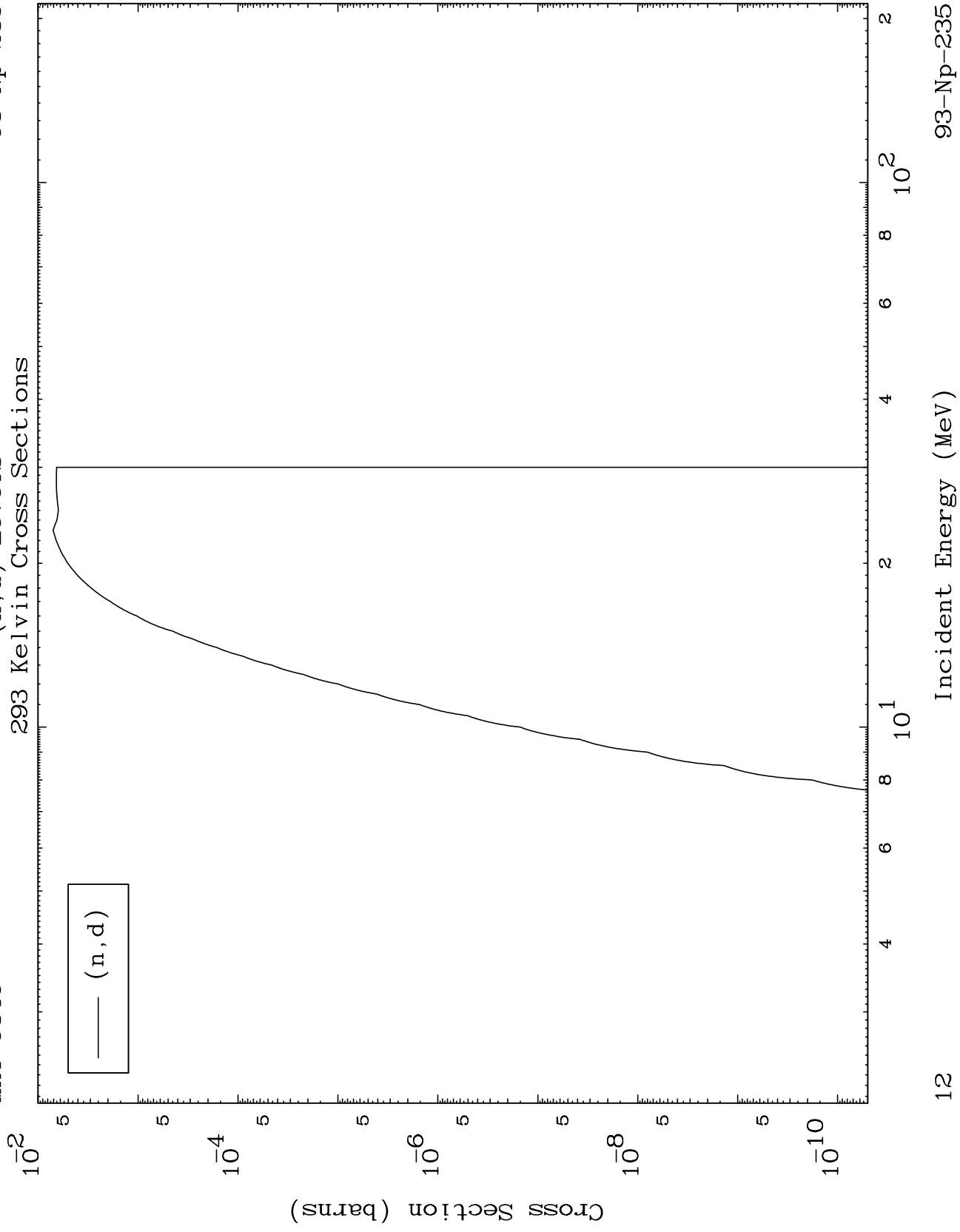
93-Np-235



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(n,d) Levels  
293 Kelvin Cross Sections

93-Np-235



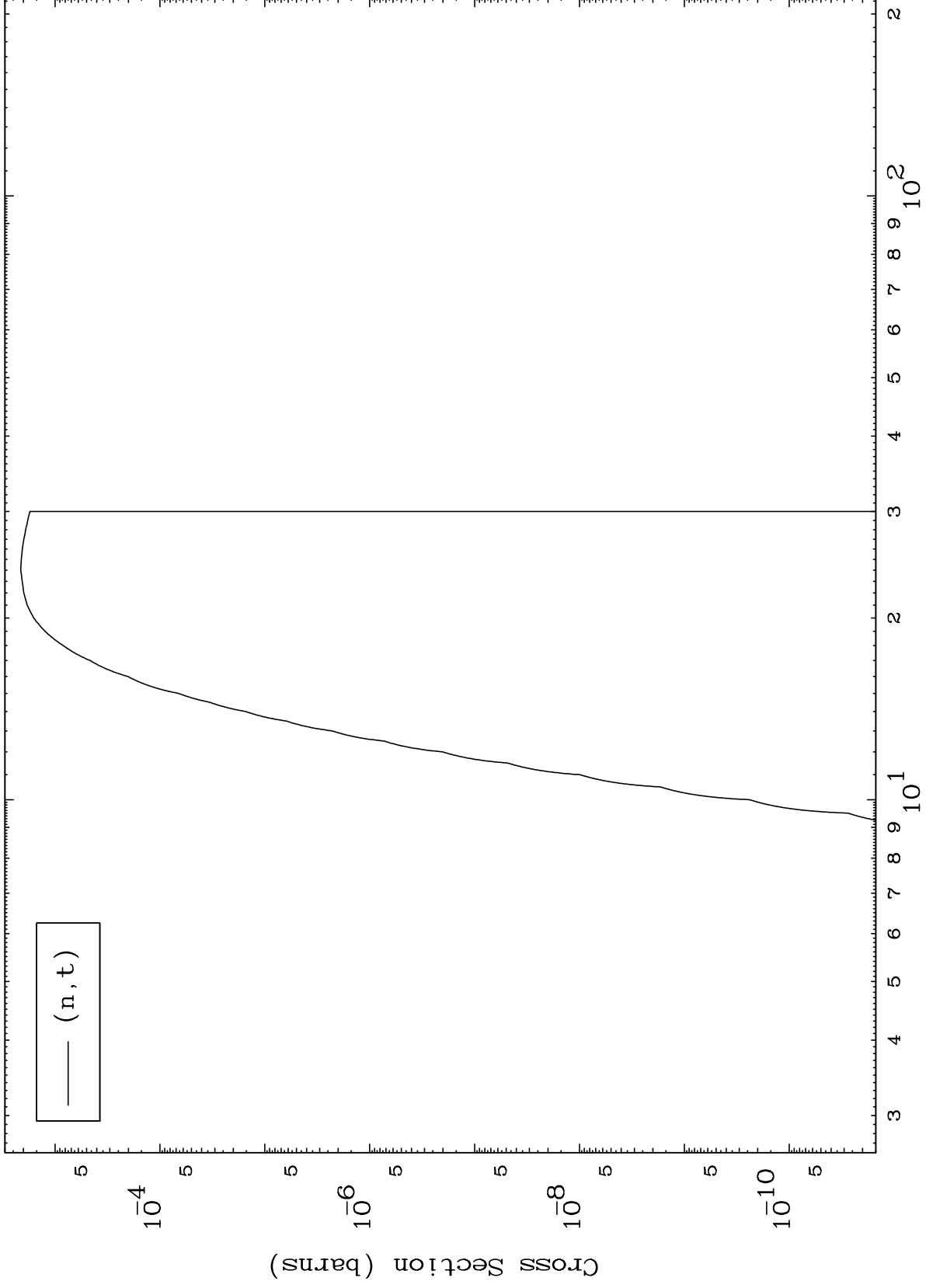
12

93-Np-235

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(n,t) Levels  
293 Kelvin Cross Sections

93-Np-235



13

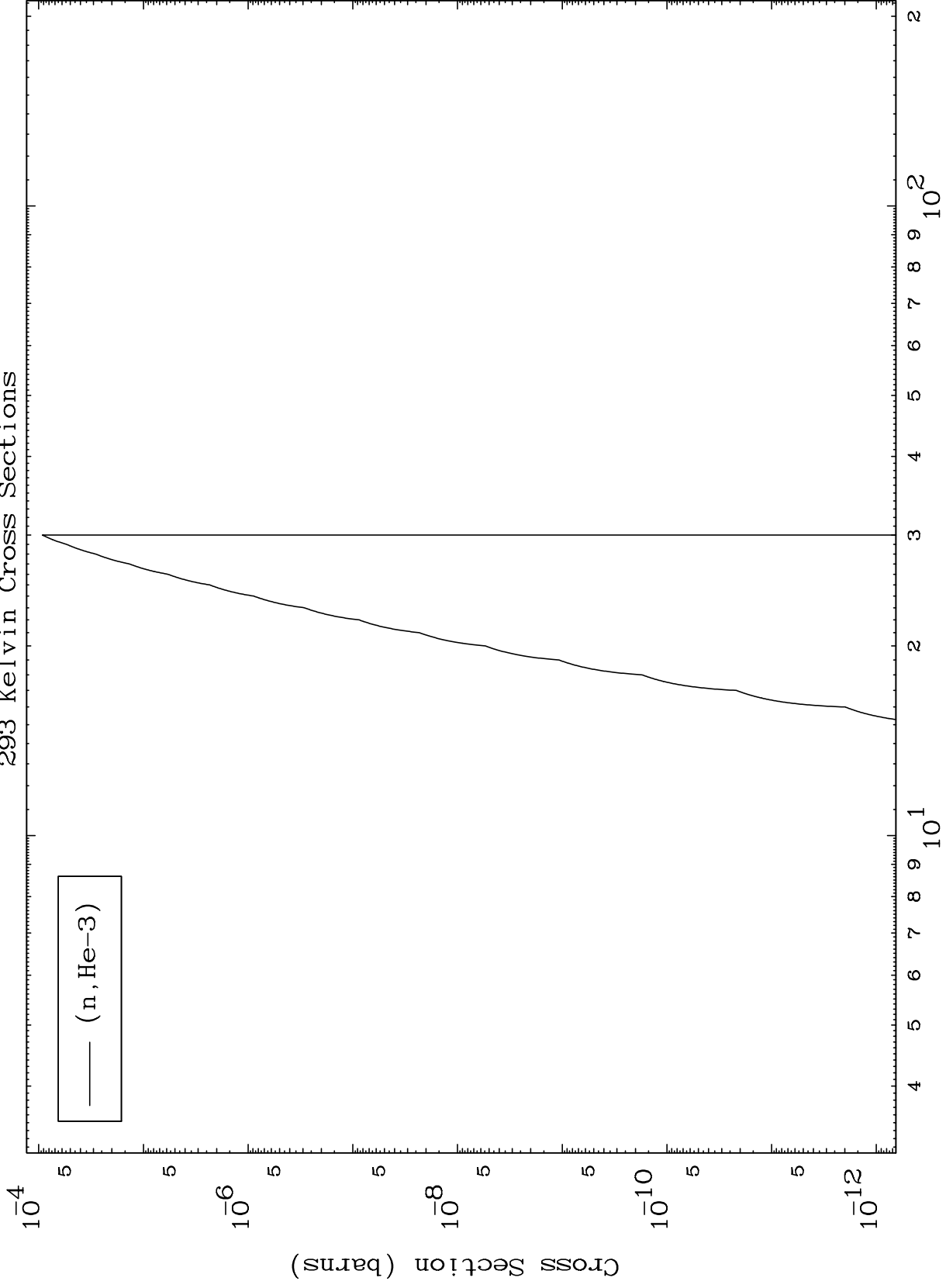
Incident Energy (MeV)

93-Np-235

MAT 9340

(n,He3) Levels  
293 Kelvin Cross Sections

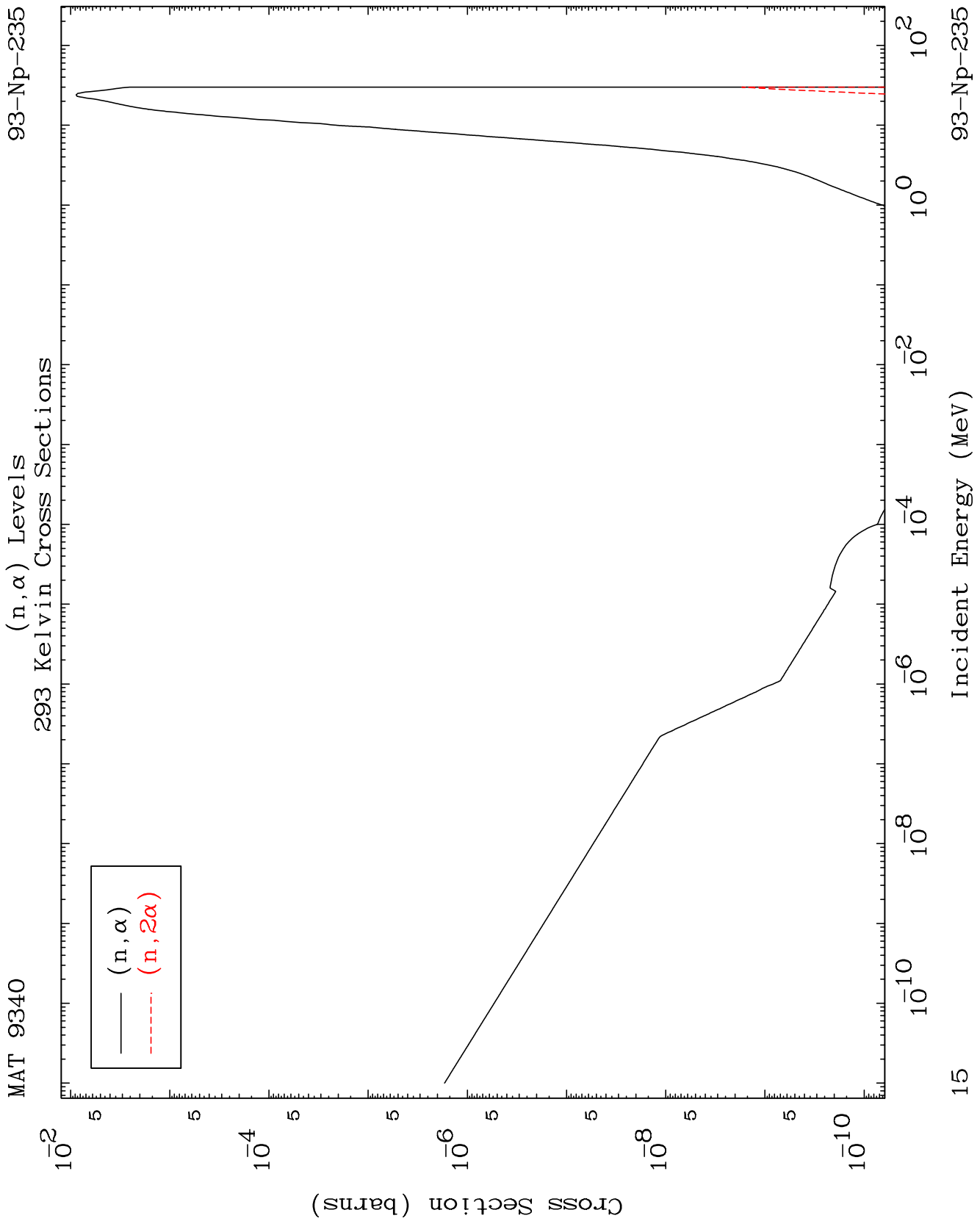
93-Np-235



14

Incident Energy (MeV)

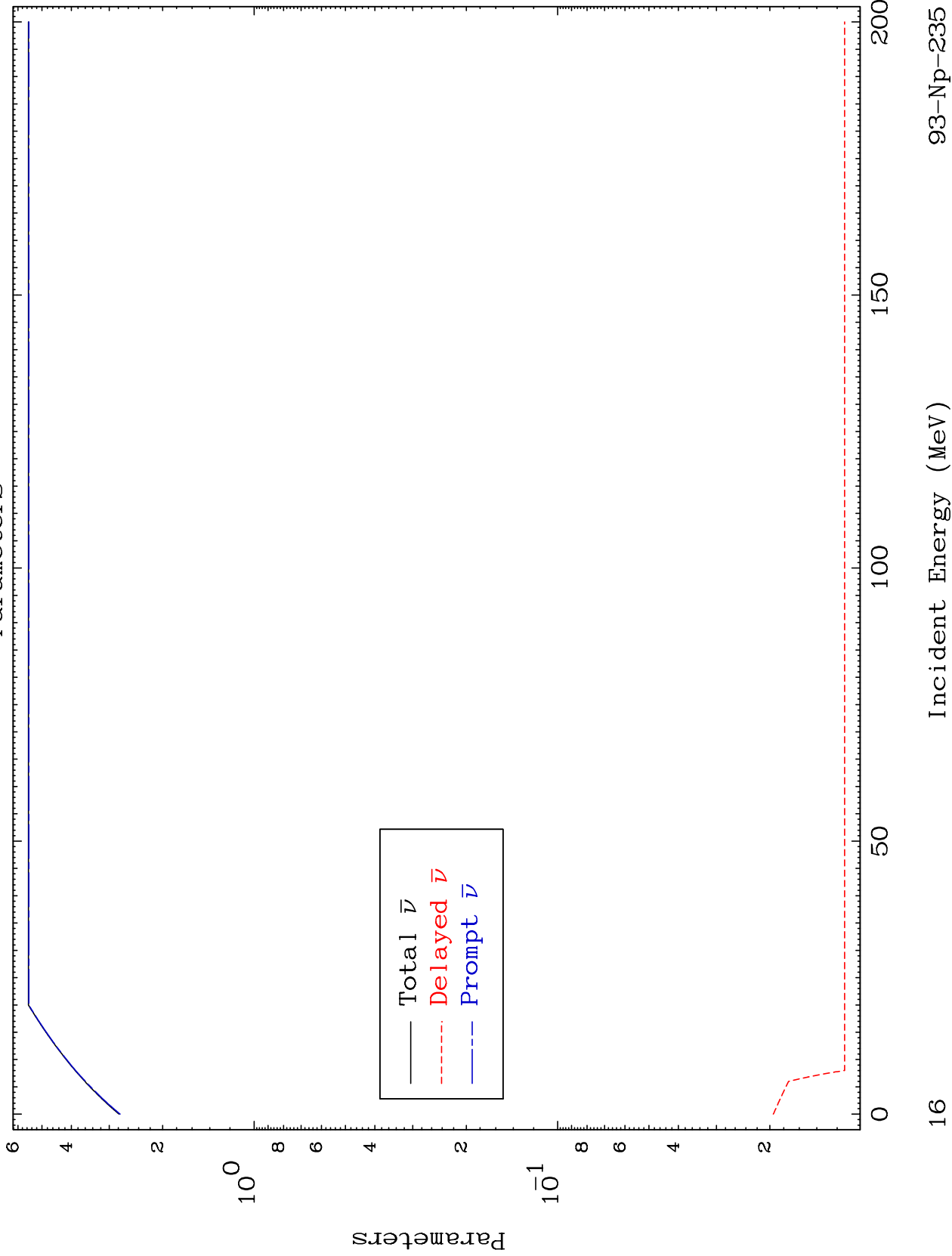
93-Np-235



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Energy Release  
Parameters

93-Np-235



16

Incident Energy (MeV)

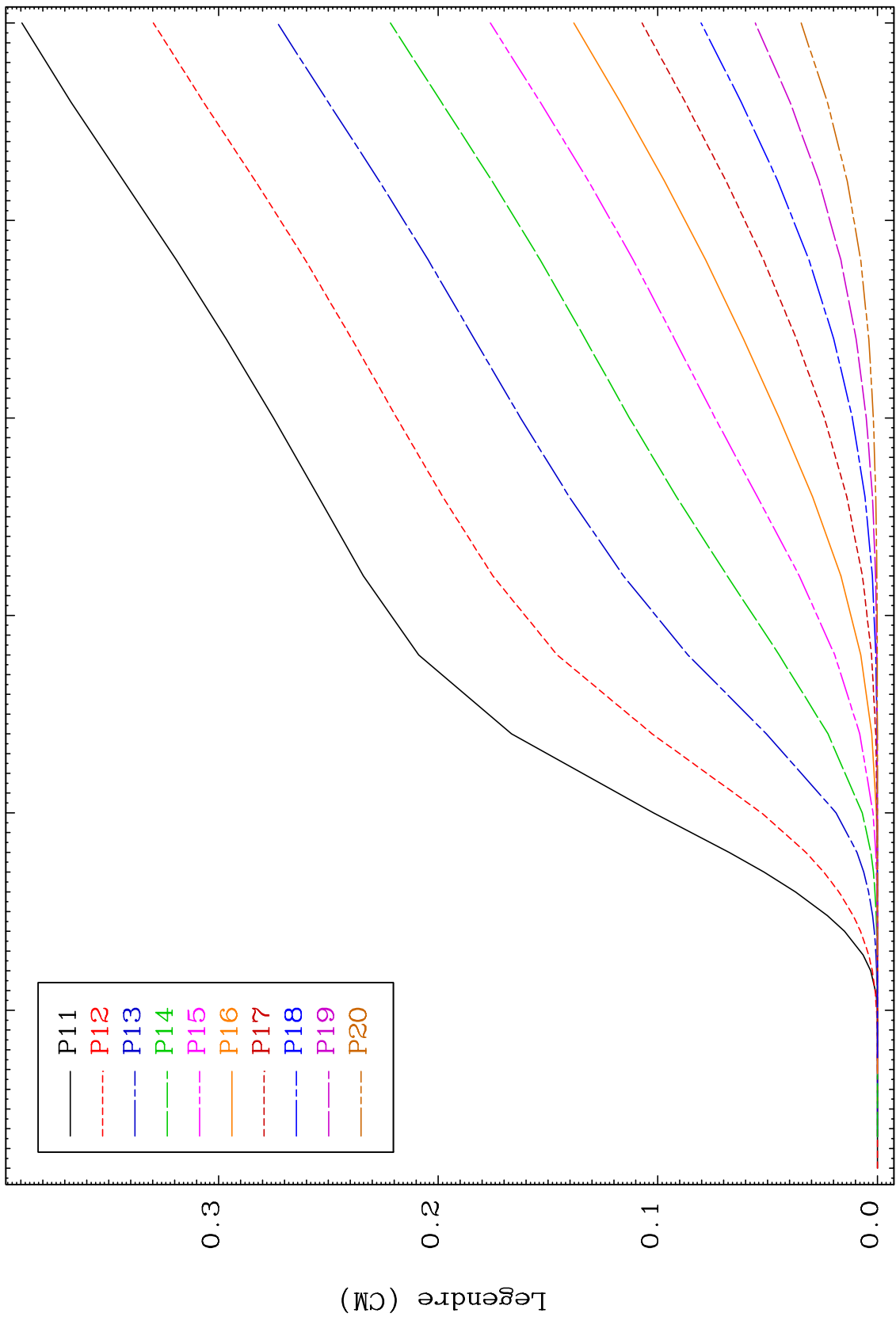
93-Np-235



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Elastic Legendre Coefficients

<sup>93</sup>Np-235



18

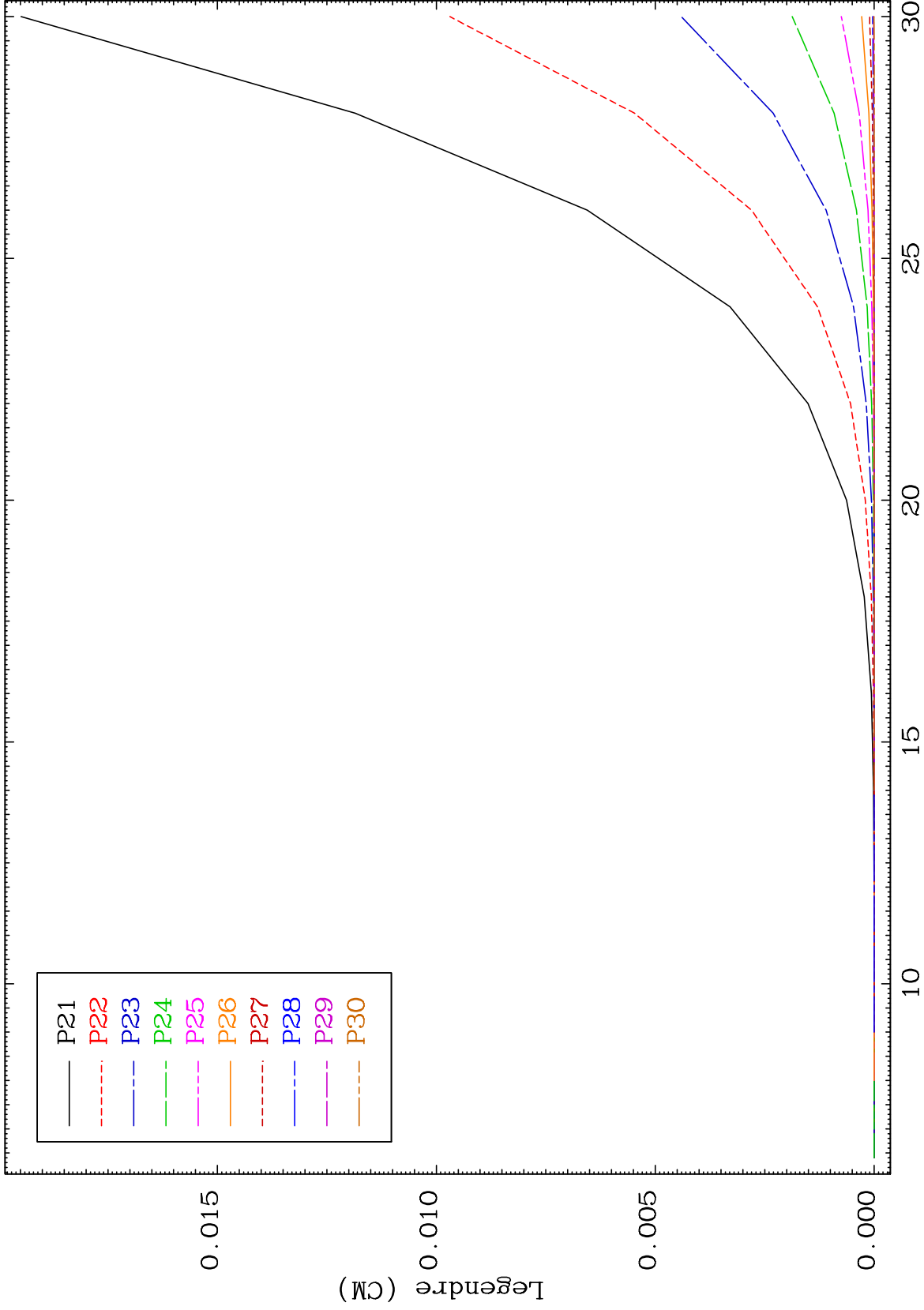
Incident Energy (MeV)

<sup>93</sup>Np-235

MAT 9340

Elastic Legendre Coefficients

93-Np-235



19

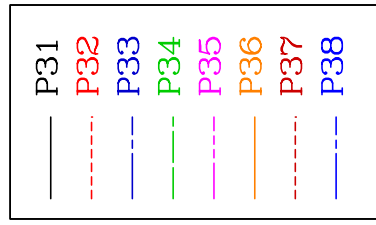
Incident Energy (MeV)

93-Np-235

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Elastic Legendre Coefficients

93-Np-235



$\times 10^{-6}$   
1.0

0.8

Legendre (CM)

0.6

0.4

0.2

0.0

16

18

20

22

24

26

28

30

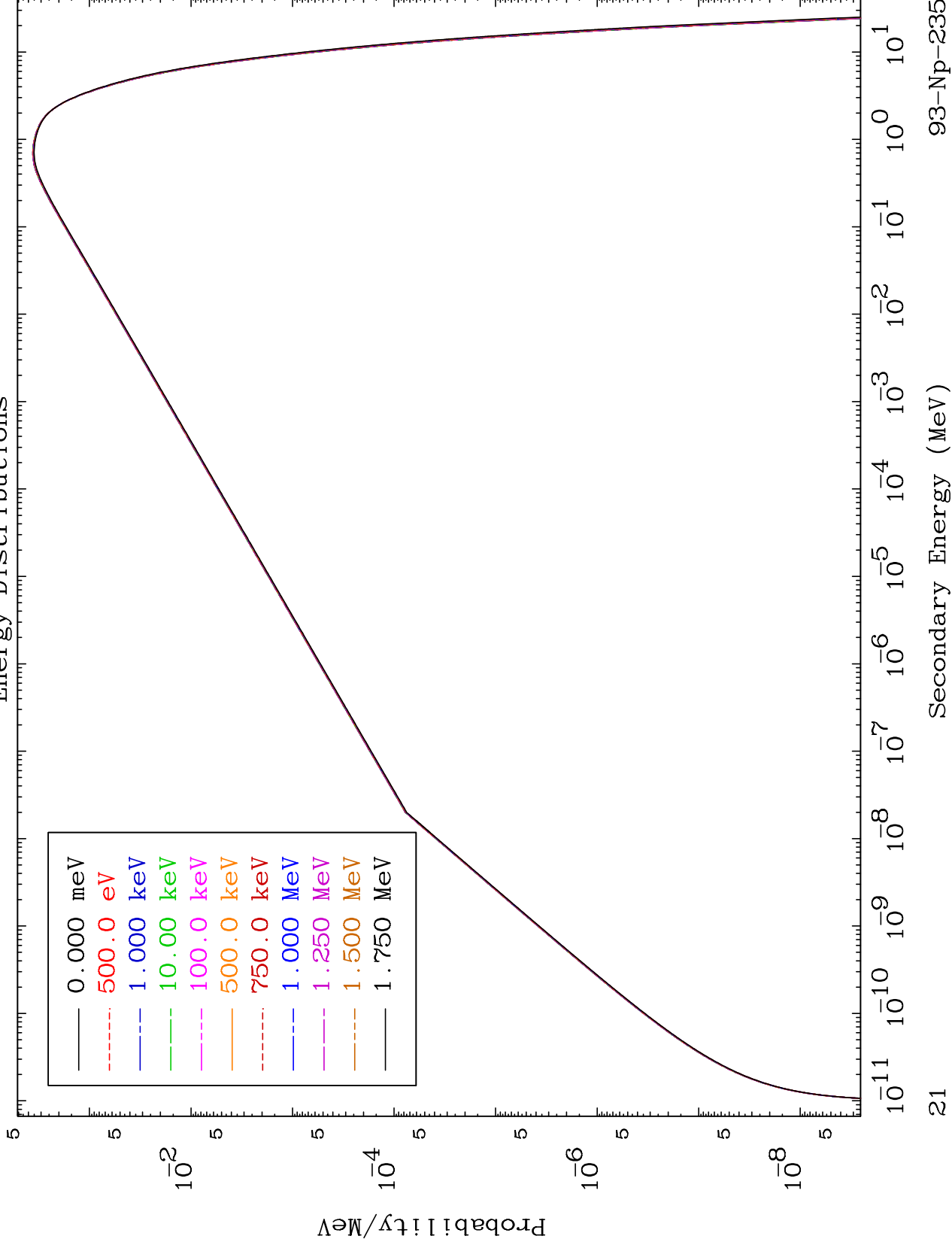
Incident Energy (MeV)

93-Np-235

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### Fission Energy Distributions

<sup>93</sup>Np-235



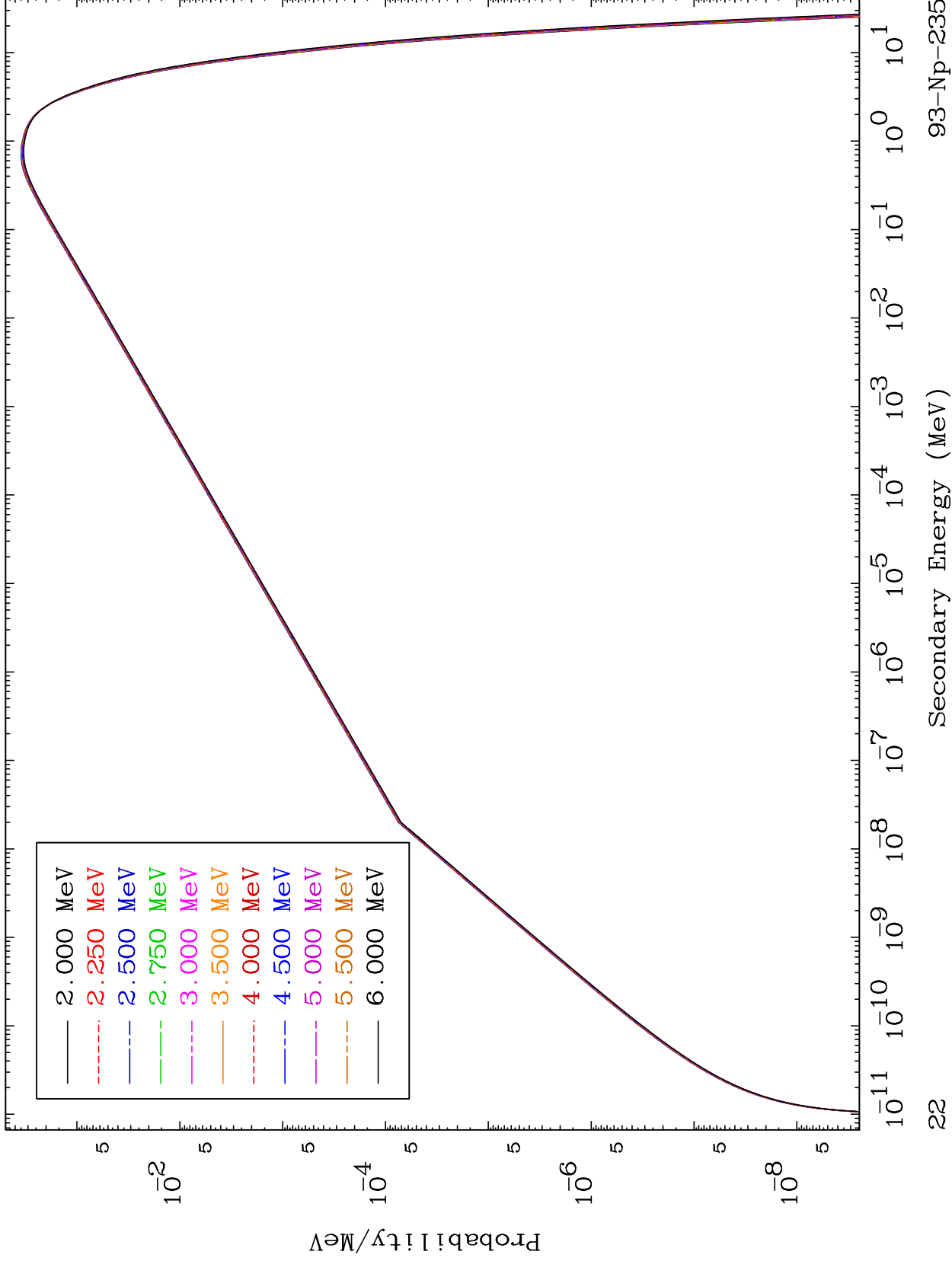
<sup>93</sup>Np-235

Secondary Energy (MeV)

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### Fission Energy Distributions

93-Np-235



93-Np-235

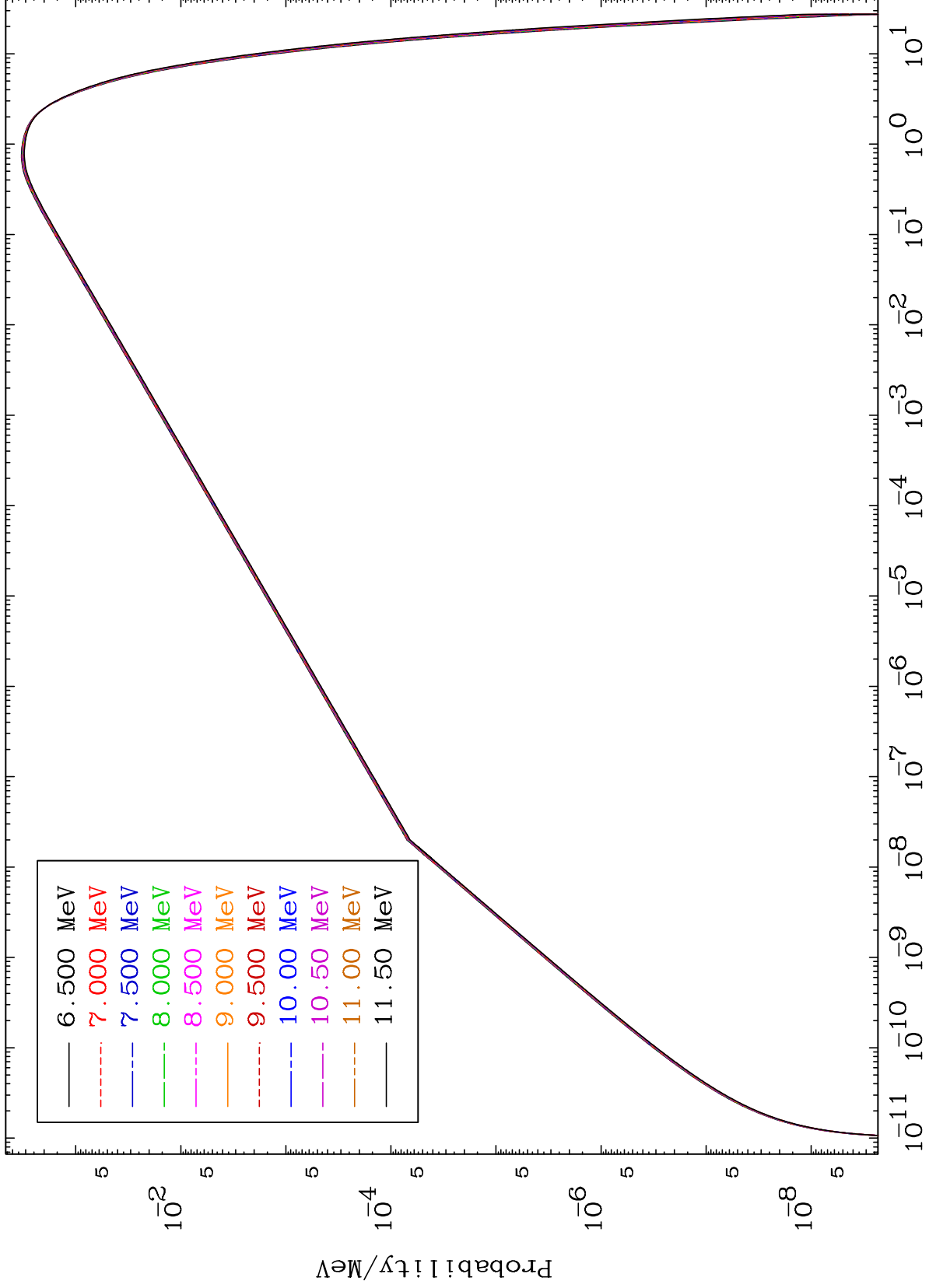
Secondary Energy (MeV)

22

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### Fission Energy Distributions

93-Np-235



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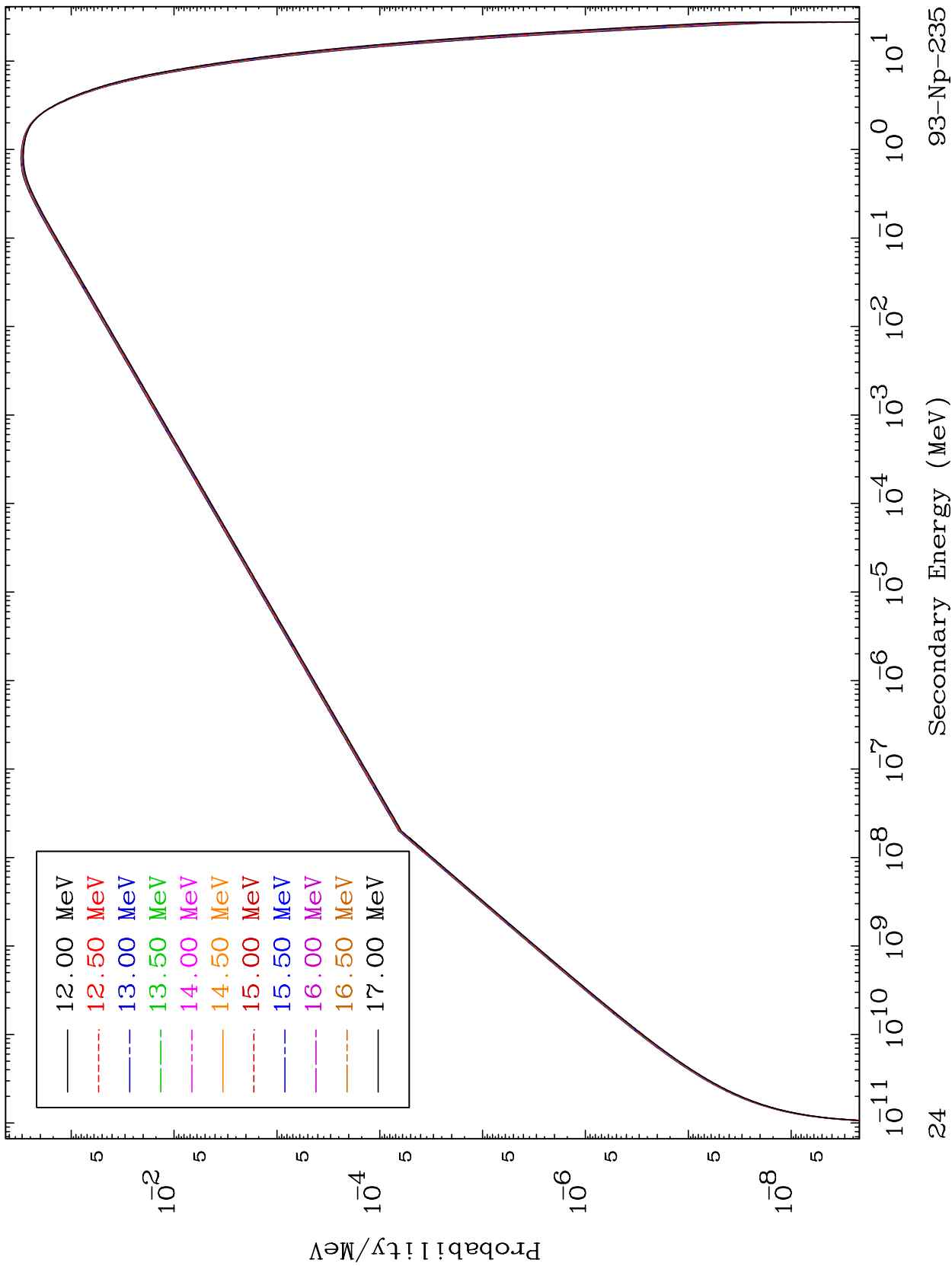
Secondary Energy (MeV)

93-Np-235

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### Fission Energy Distributions

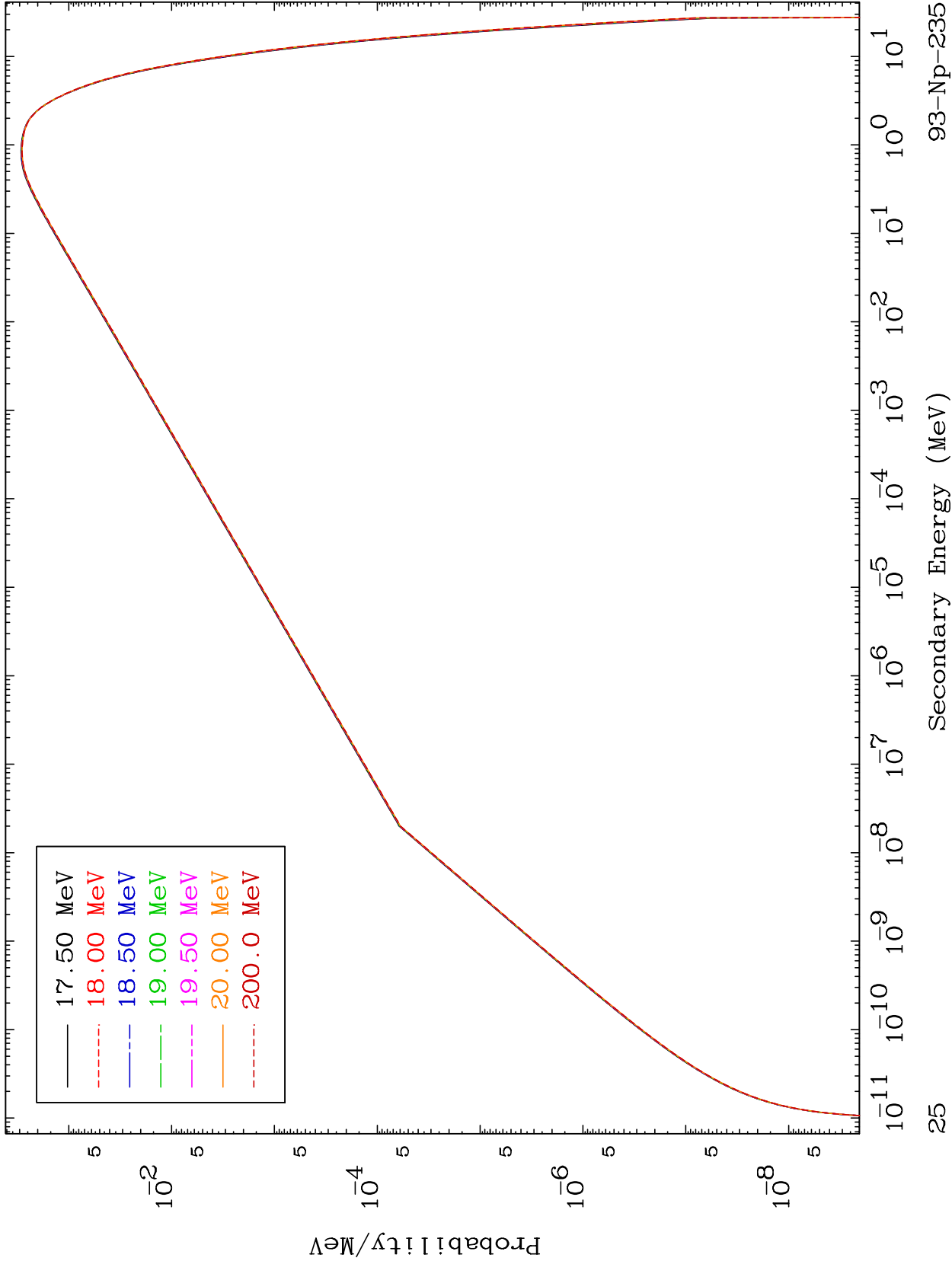
93-Np-235



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### Fission Energy Distributions

93-Np-235



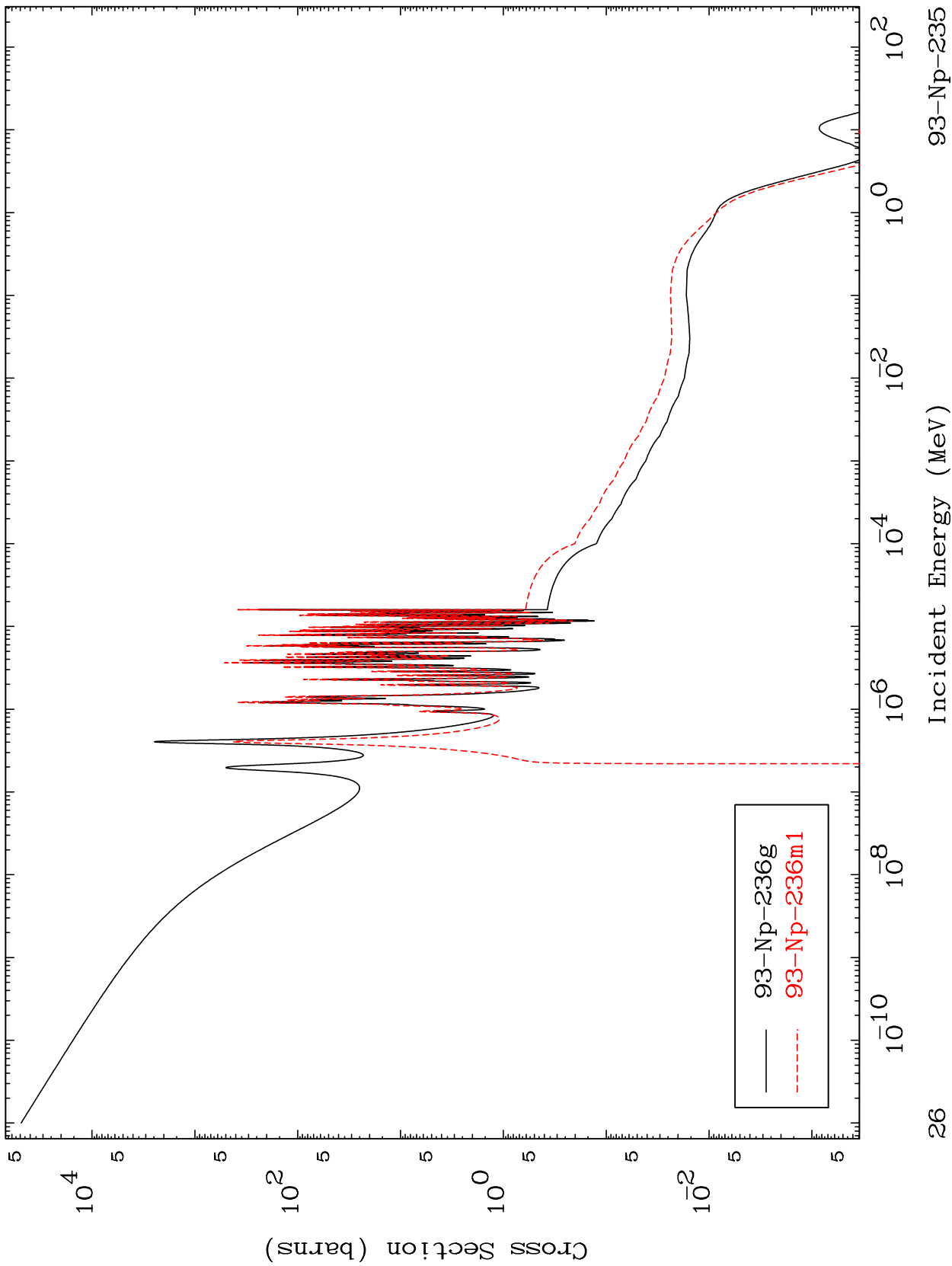
25

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93-Np-235

Radionuclide Production Cross Section

(n,  $\gamma$ )

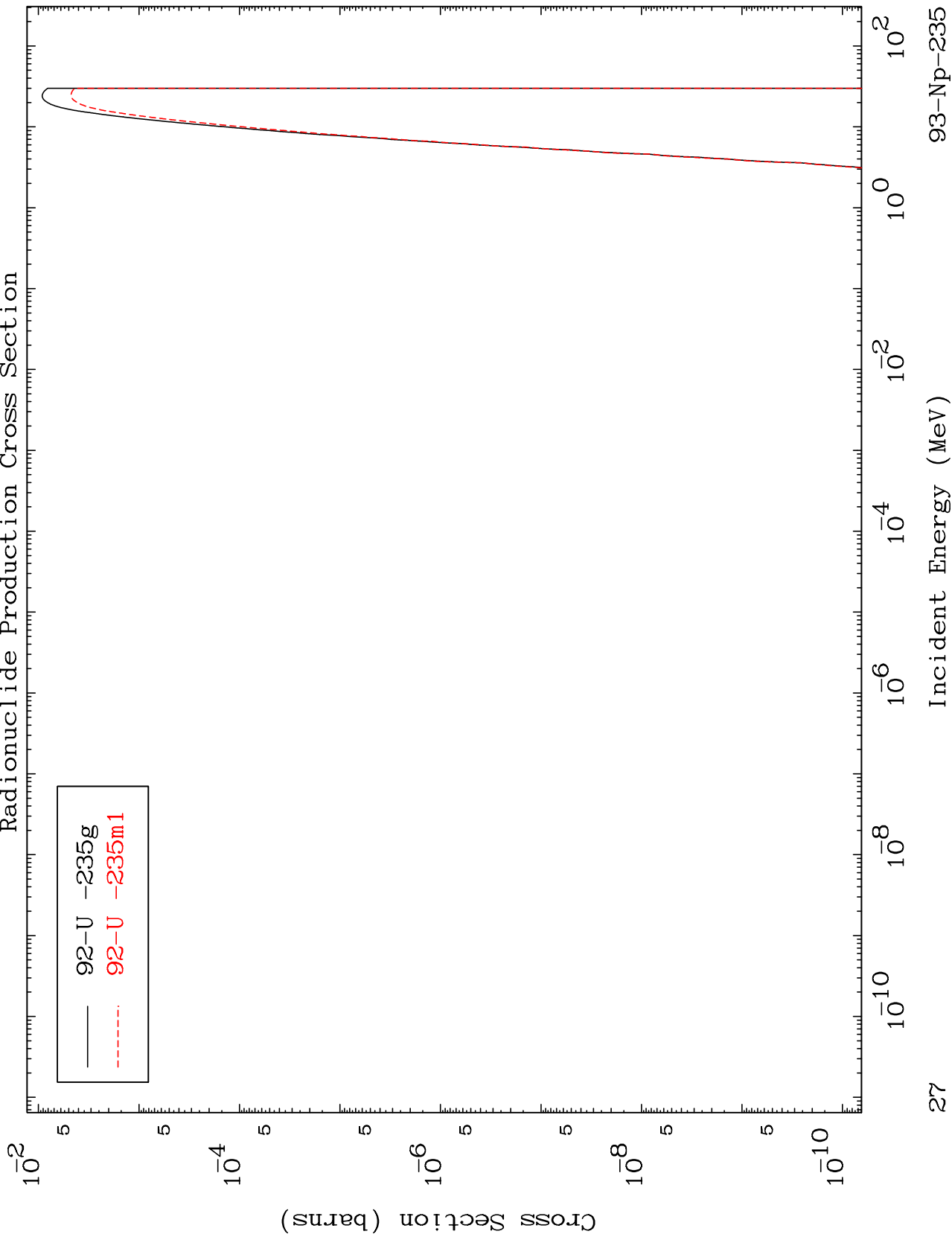


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(n,p)

<sup>93</sup>Np-235

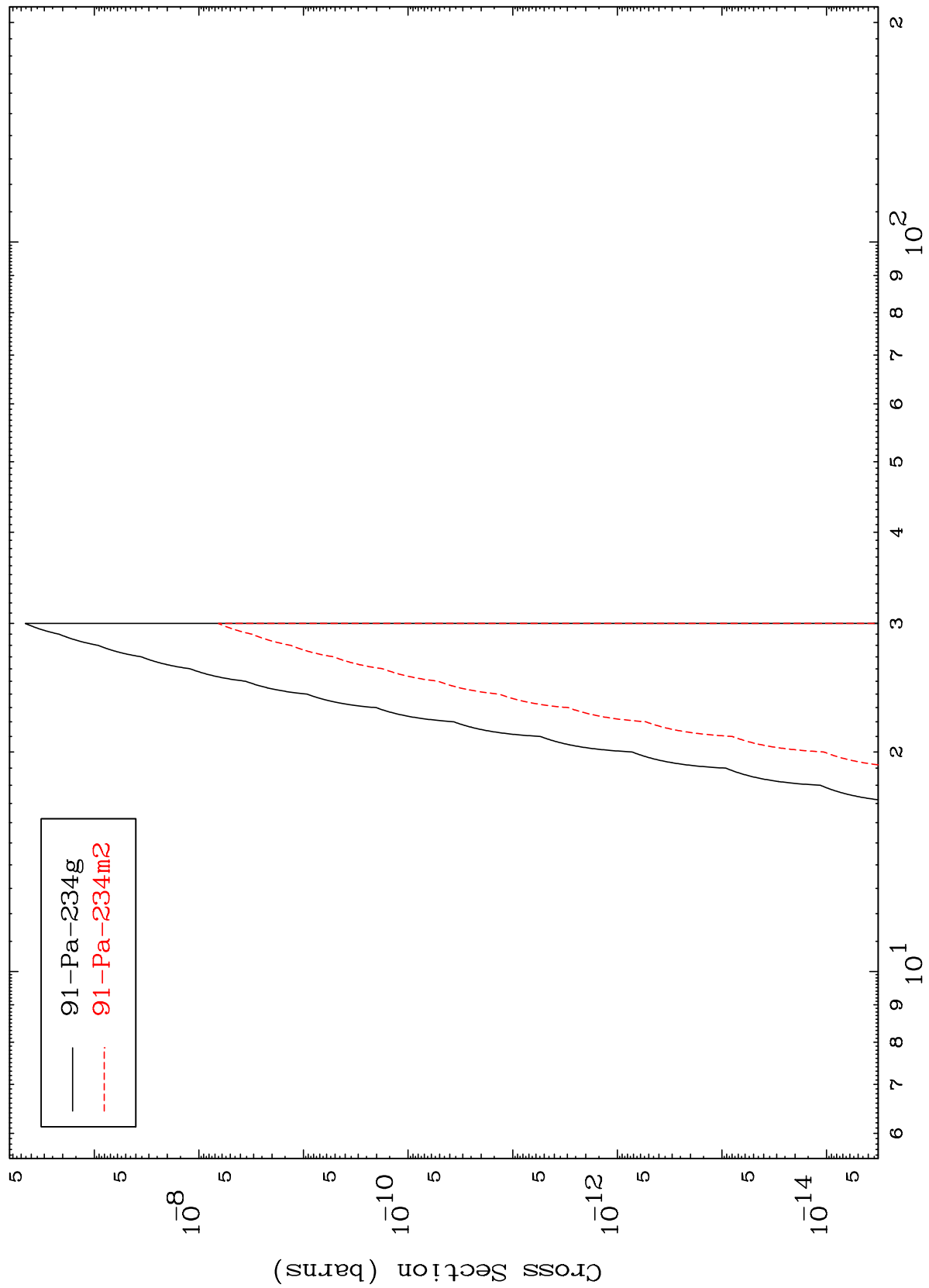
Radionuclide Production Cross Section



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93-Np-235

(n,2p)  
Radionuclide Production Cross Section



— 91-Pa-234g  
- - - 91-Pa-234m2

28

Incident Energy (MeV)

93-Np-235