

Program EVALPLOT  
(Version 2015-2)

by

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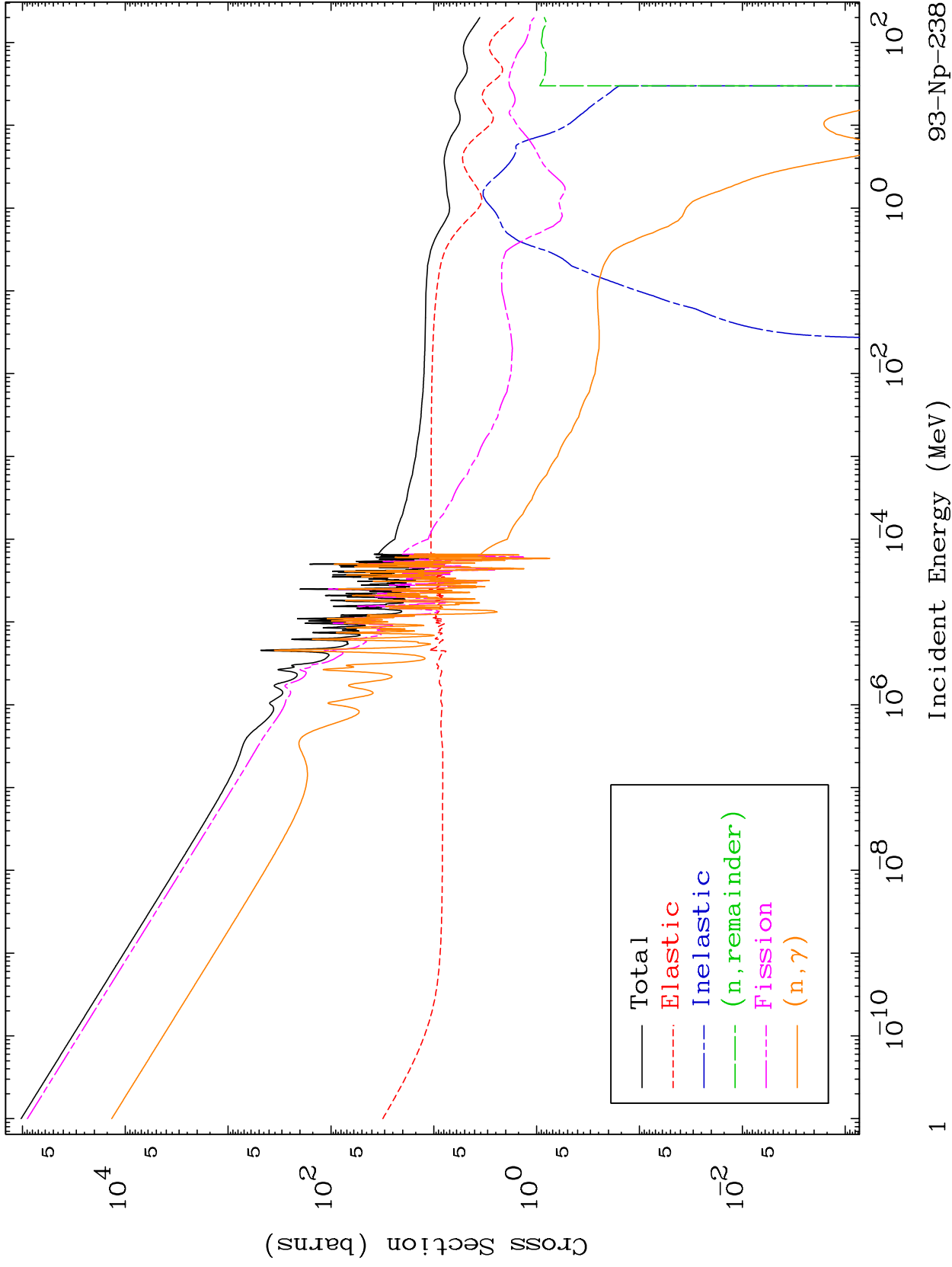
E.Mail:redcullen1@comcast.net  
Web:home.comcast.net/~redcullen1

Press Mouse Button to Start

MAT 9349

Major  
293 Kelvin Cross Sections

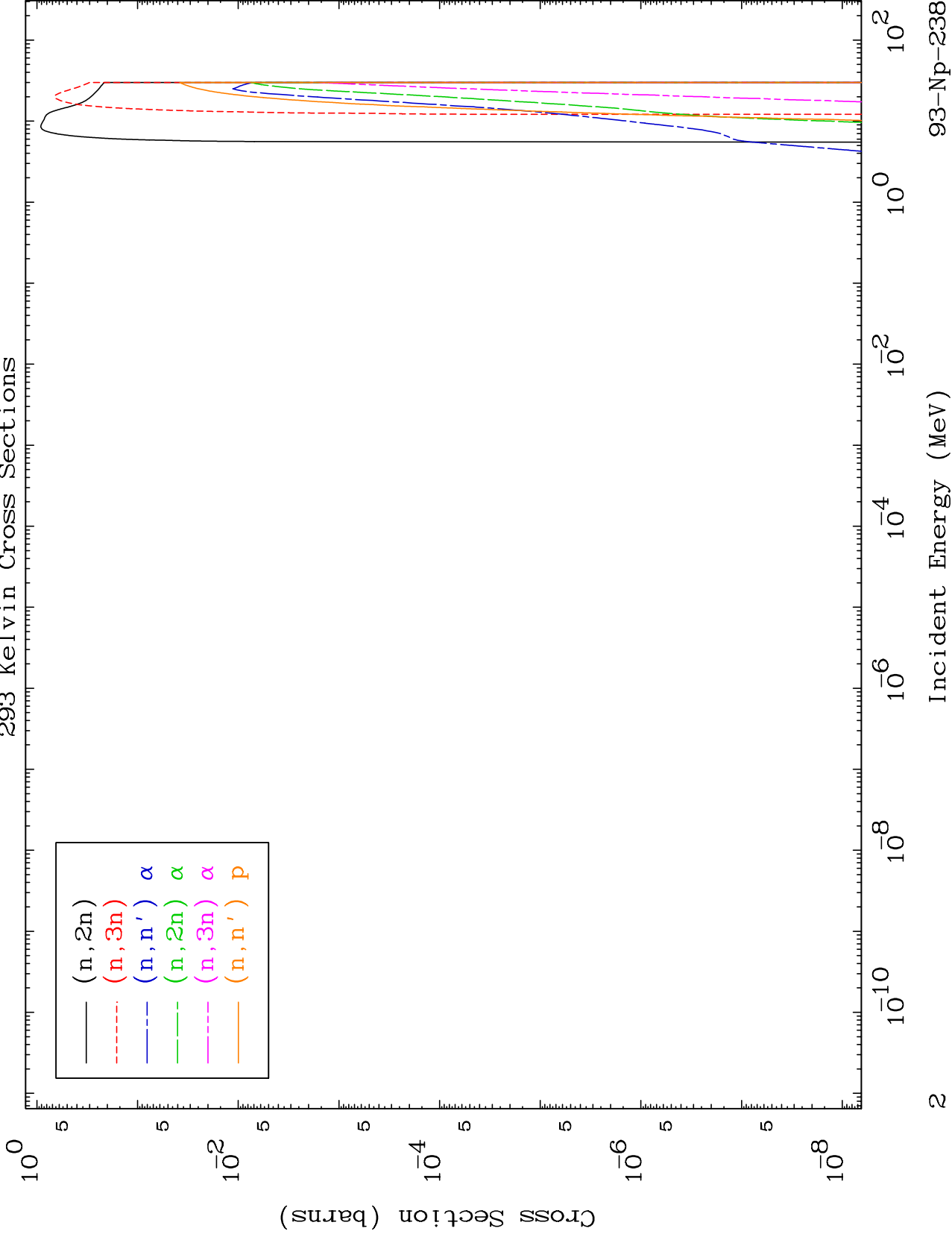
93-Np-238



MAT 9349

Neutron Production  
293 Kelvin Cross Sections

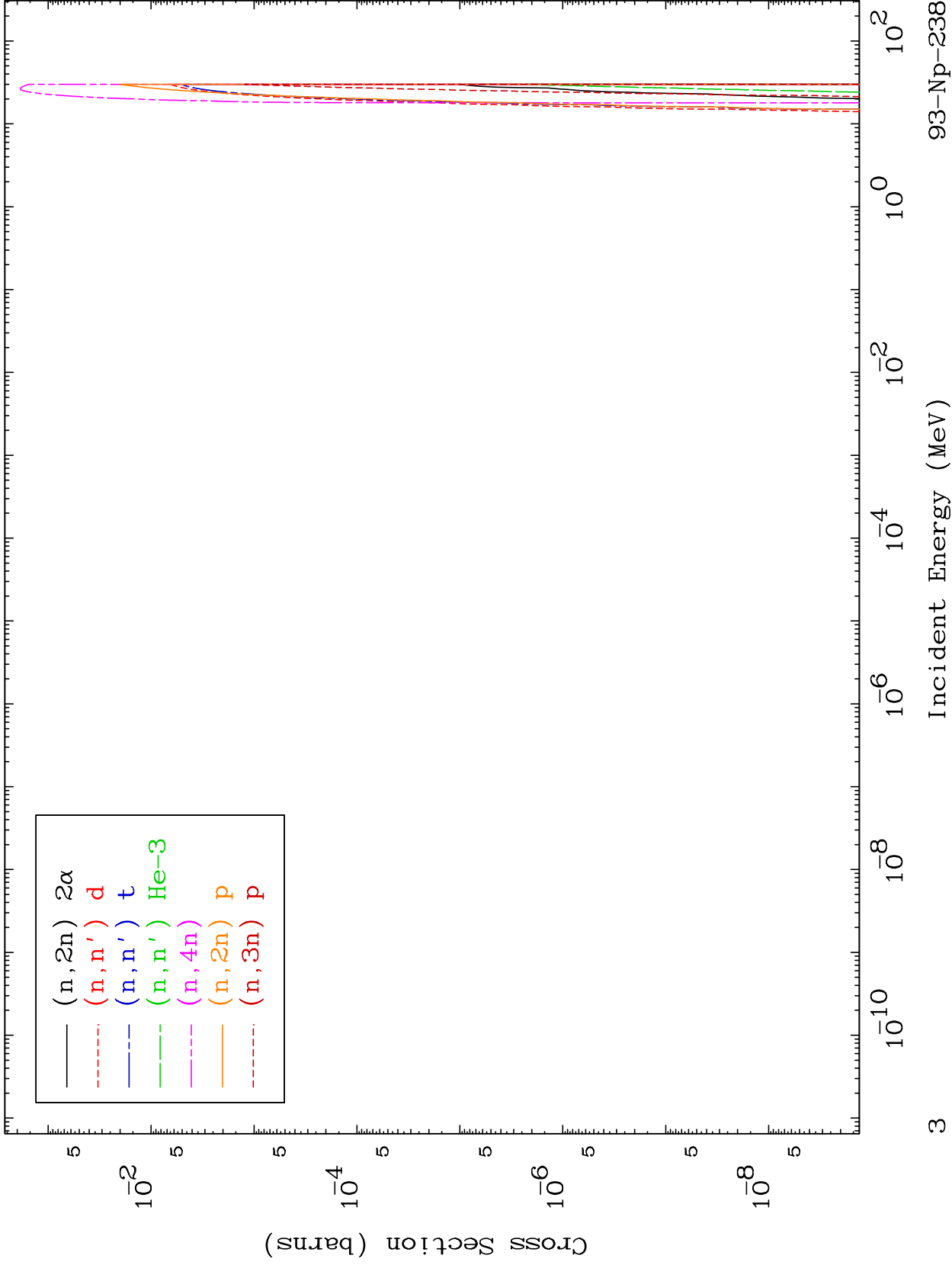
93-Np-238



MAT 9349

Neutron Production  
293 Kelvin Cross Sections

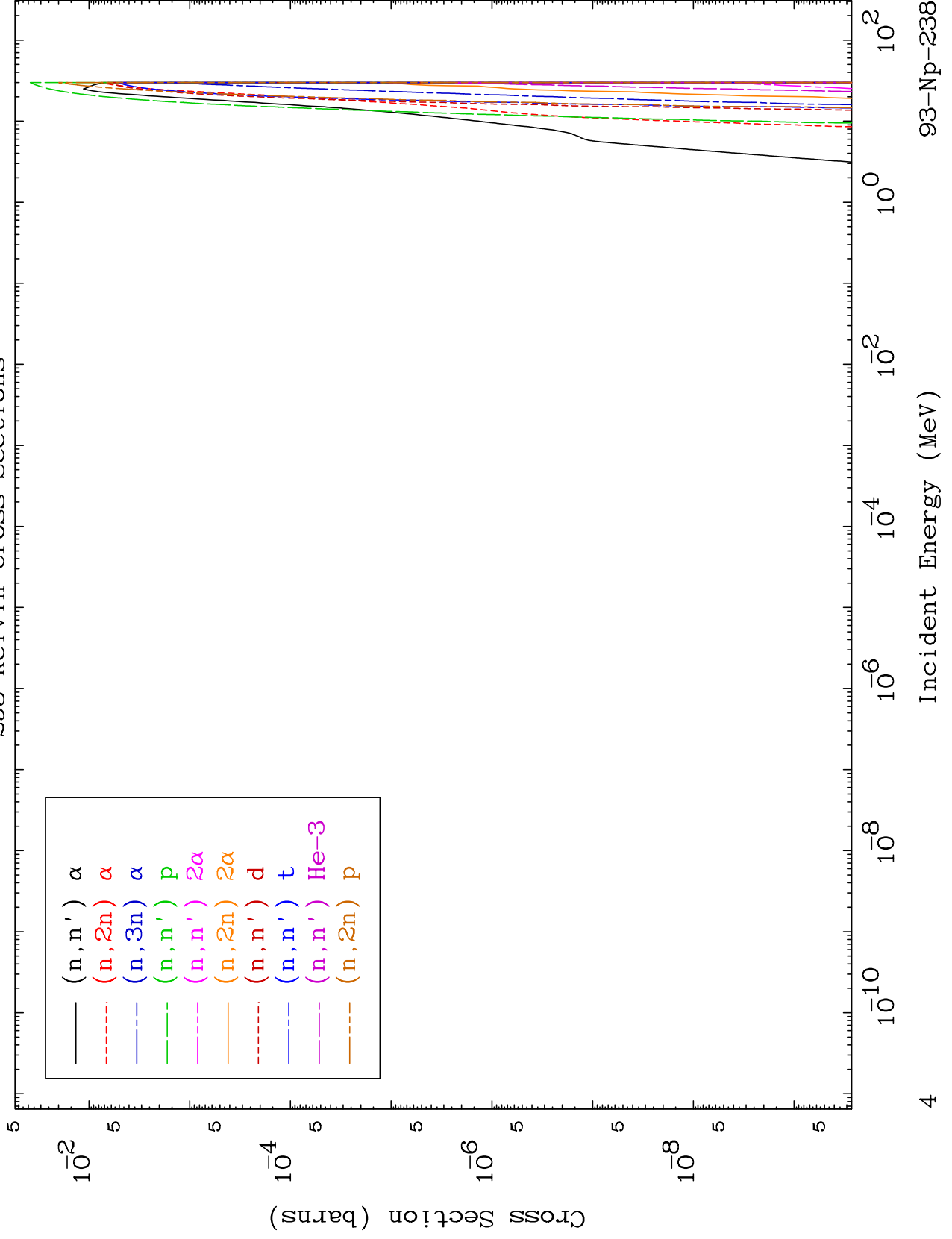
93-Np-238



MAT 9349

Charged Particle  
293 Kelvin Cross Sections

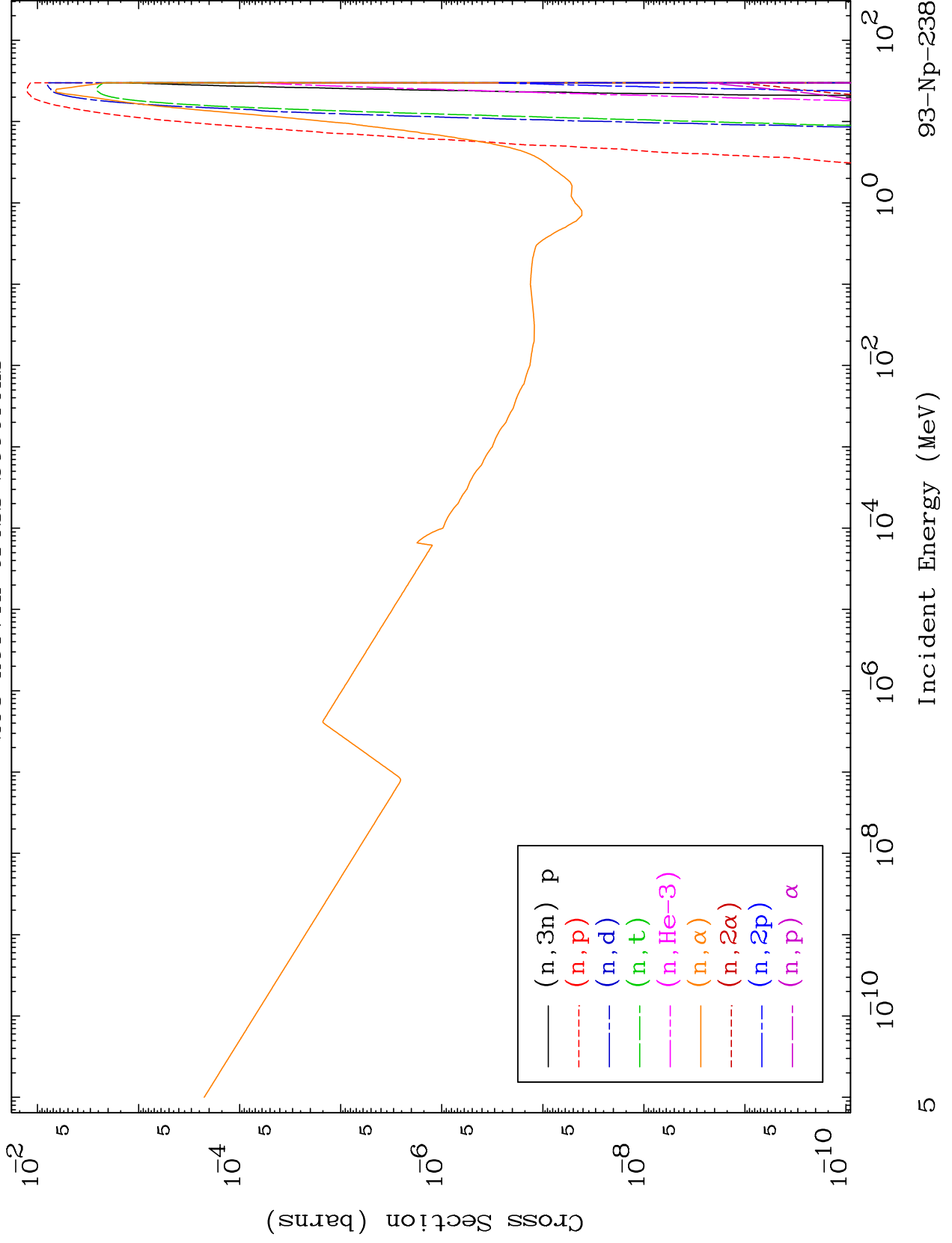
93-Np-238



MAT 9349

Charged Particle  
293 Kelvin Cross Sections

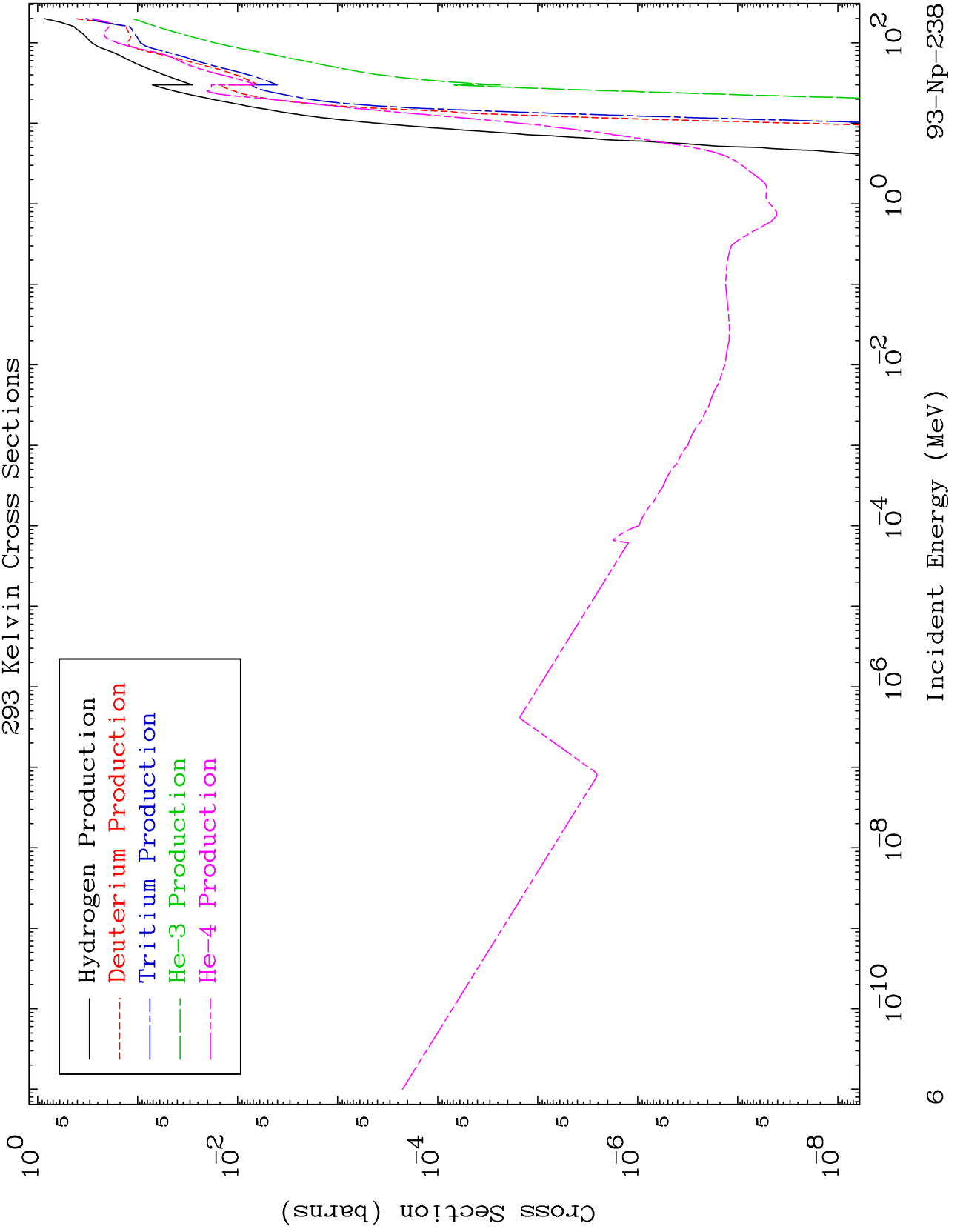
93-Np-238



MAT 9349

Particle Production  
293 Kelvin Cross Sections

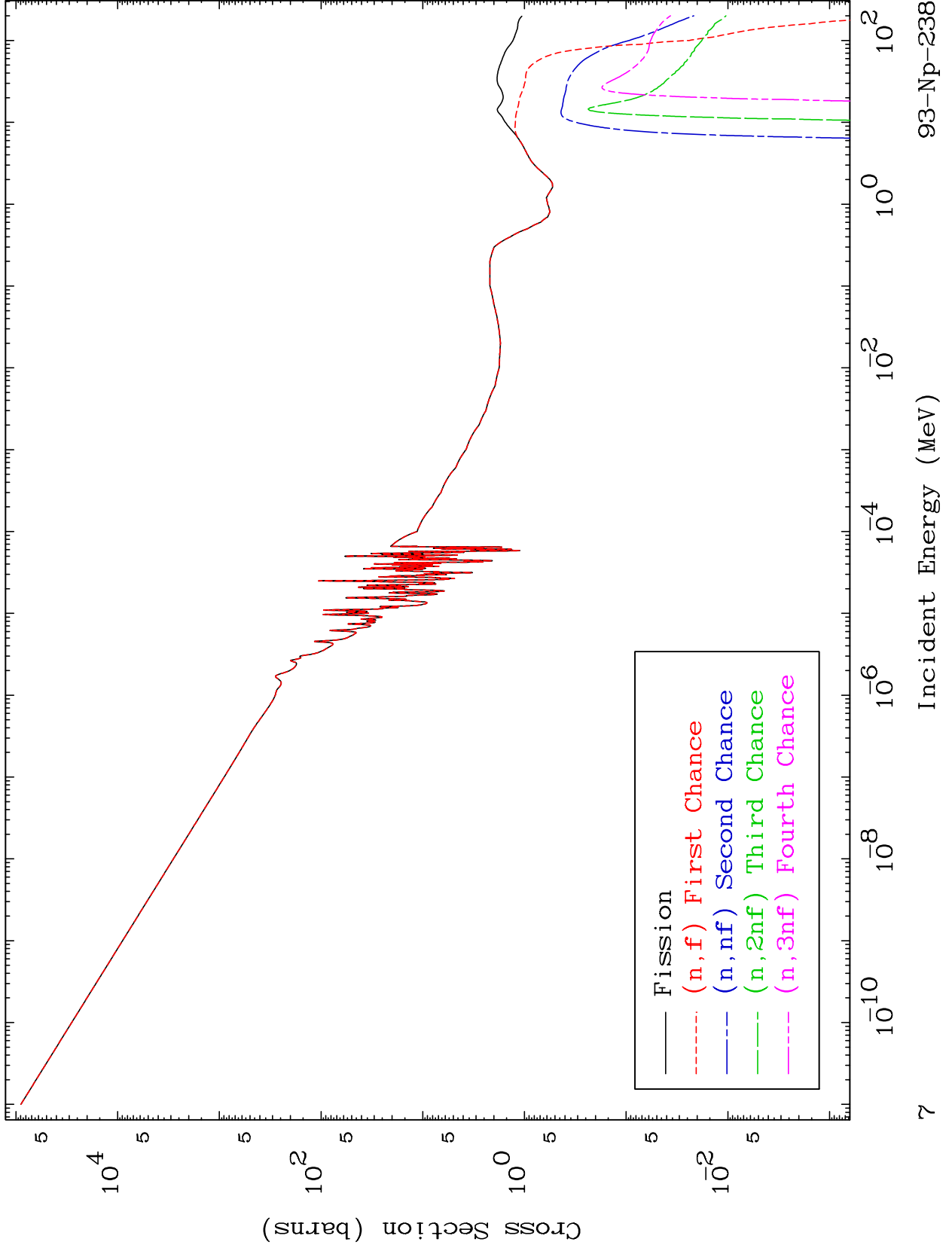
93-Np-238



MAT 9349

Fission  
293 Kelvin Cross Sections

93-Np-238

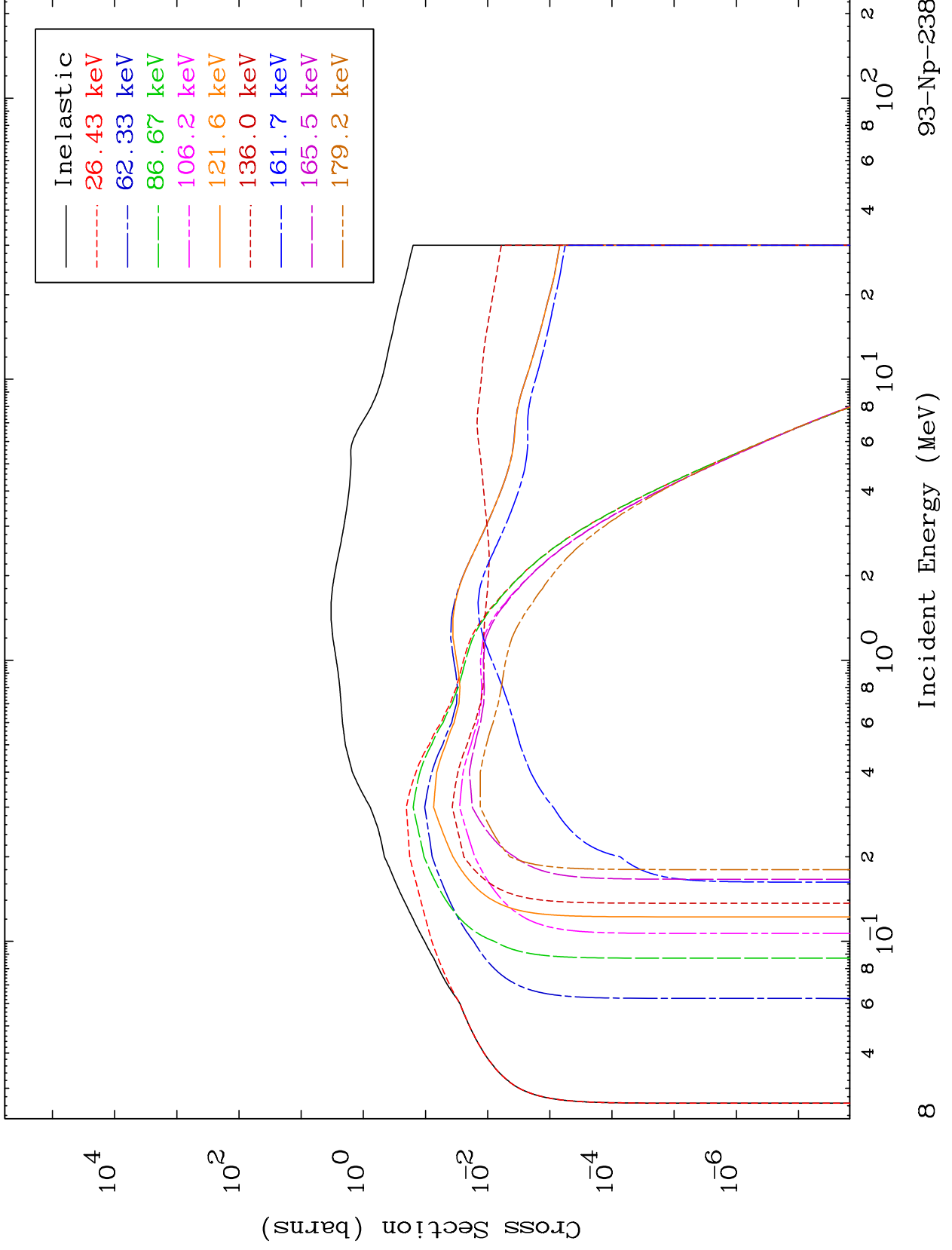




MAT 9349

(n,n') Level  
293 Kelvin Cross Sections

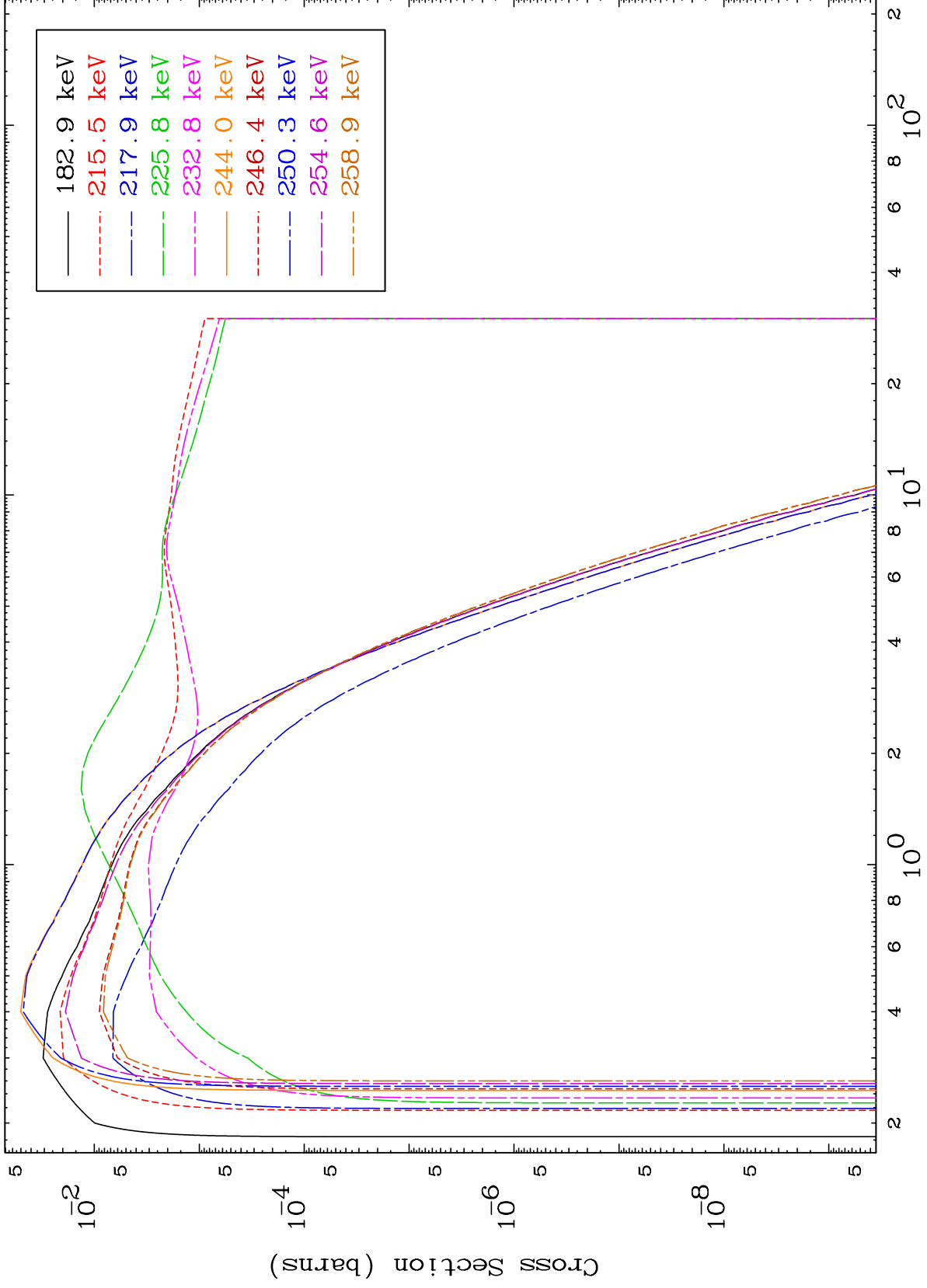
93-Np-238



MAT 9349

(n,n') Level  
293 Kelvin Cross Sections

93-Np-238



9

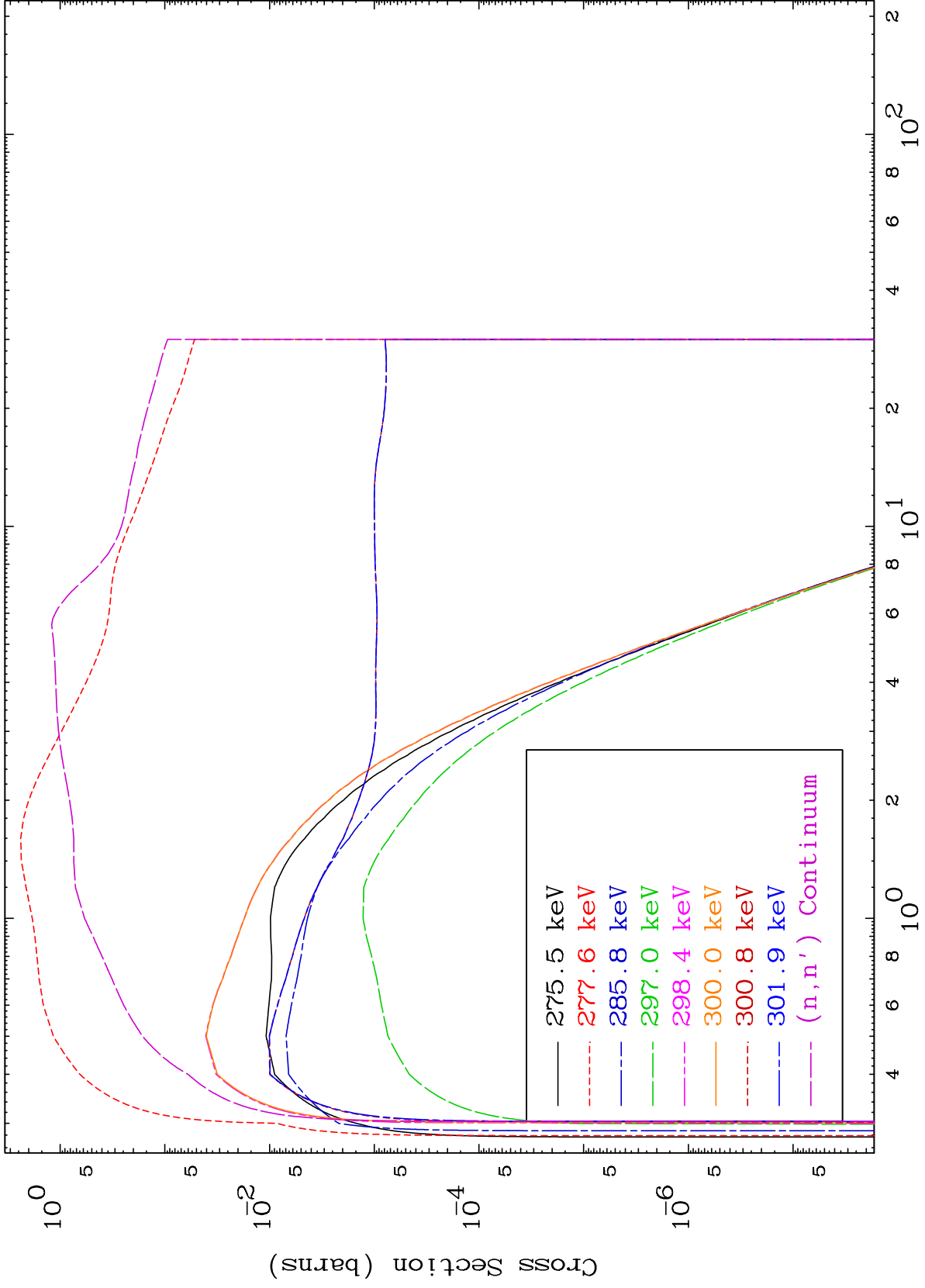
Incident Energy (MeV)

93-Np-238

MAT 9349

(n,n') Level  
293 Kelvin Cross Sections

93-Np-238



10

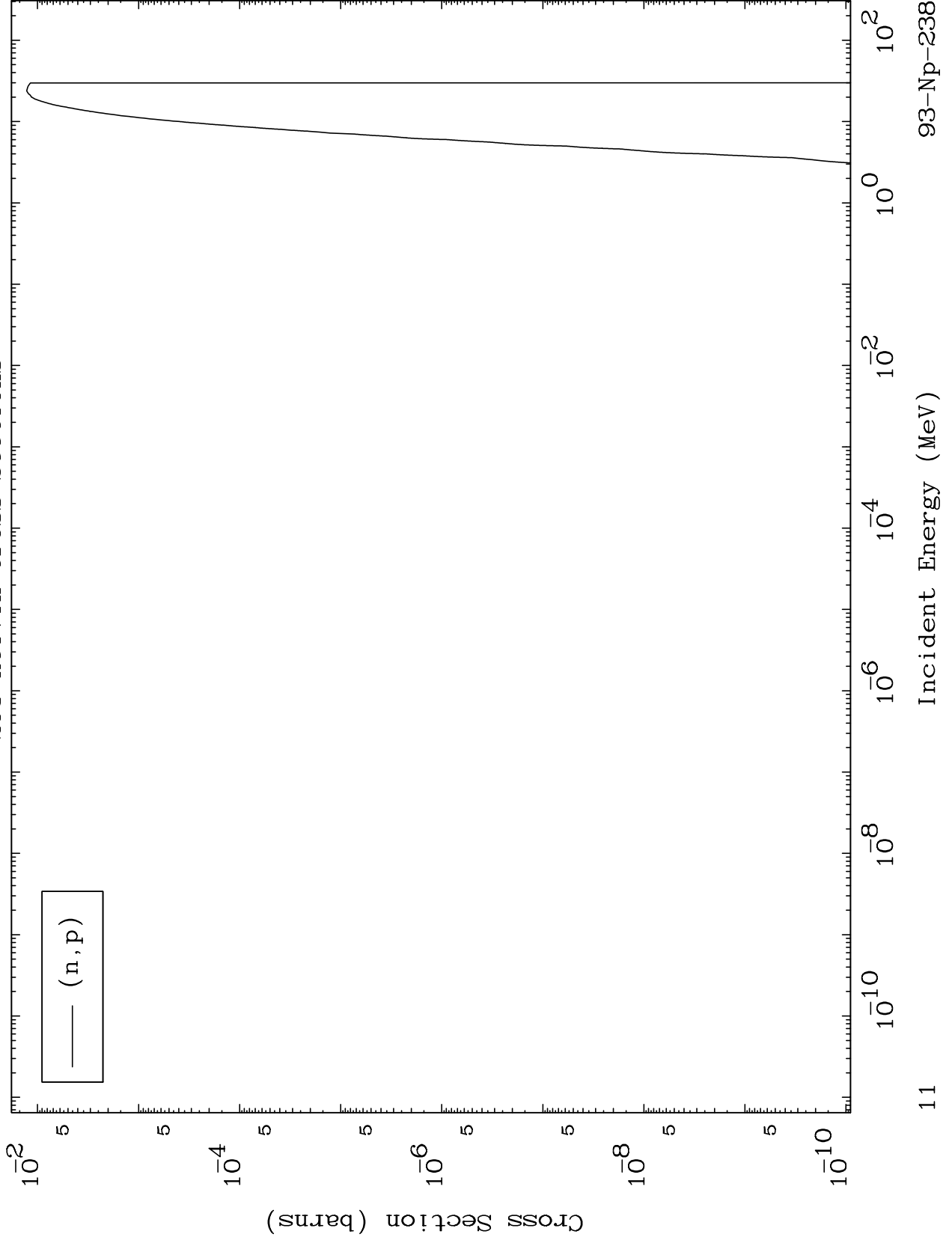
Incident Energy (MeV)

93-Np-238

MAT 9349

(n,p) Levels  
293 Kelvin Cross Sections

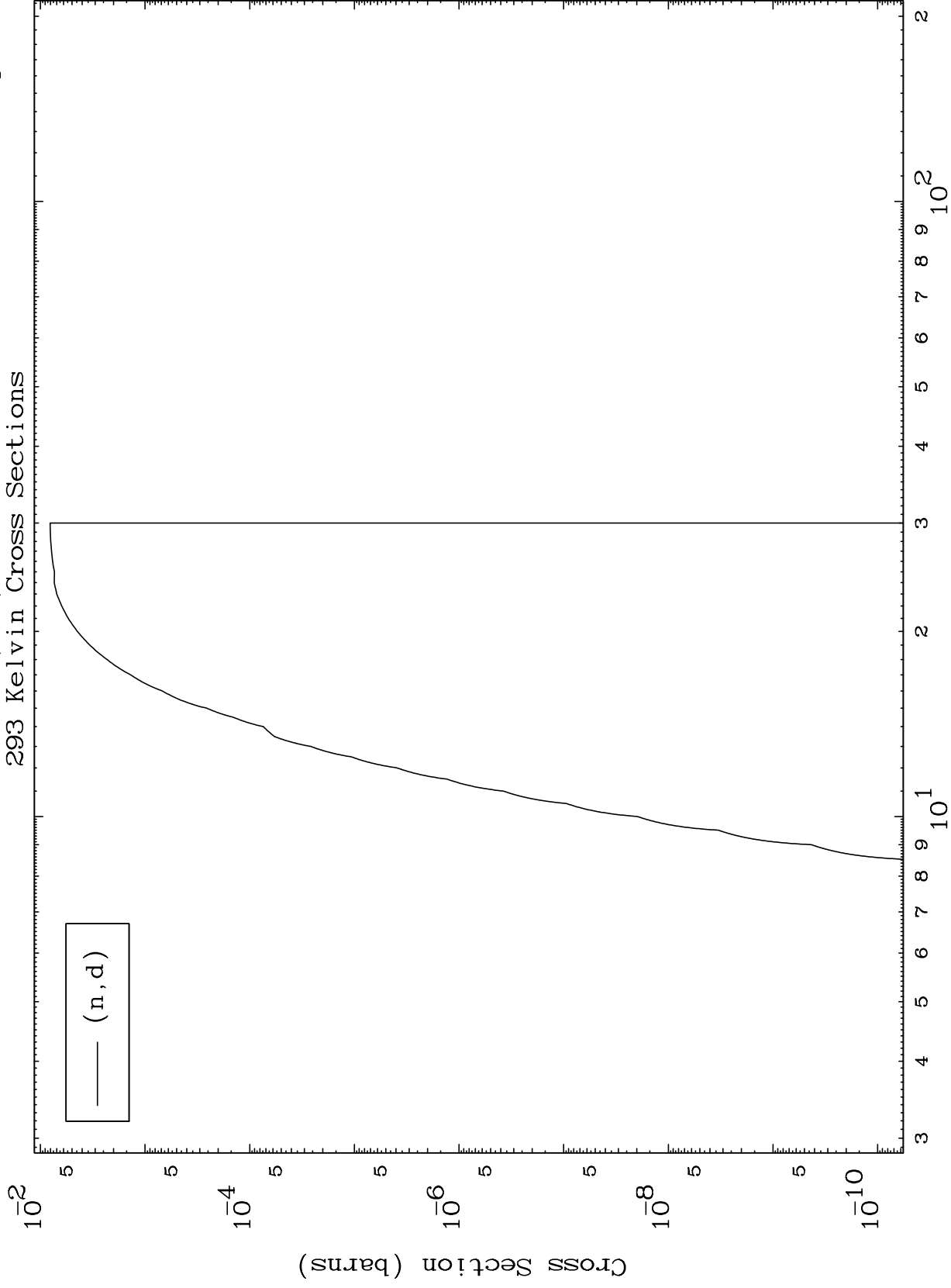
93-Np-238



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(n,d) Levels  
293 Kelvin Cross Sections

93-Np-238



12

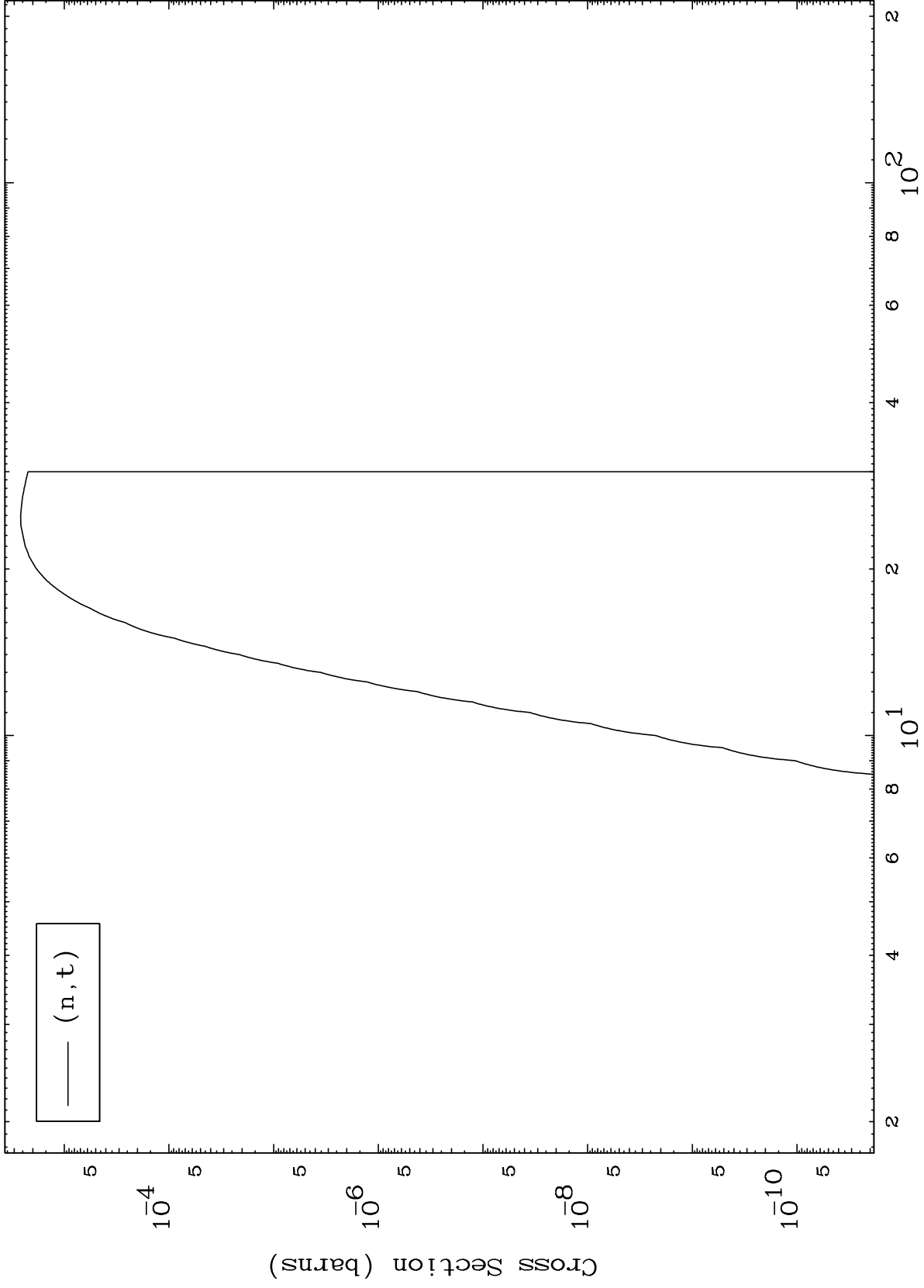
Incident Energy (MeV)

93-Np-238

MAT 9349

(n,t) Levels  
293 Kelvin Cross Sections

93-Np-238



13

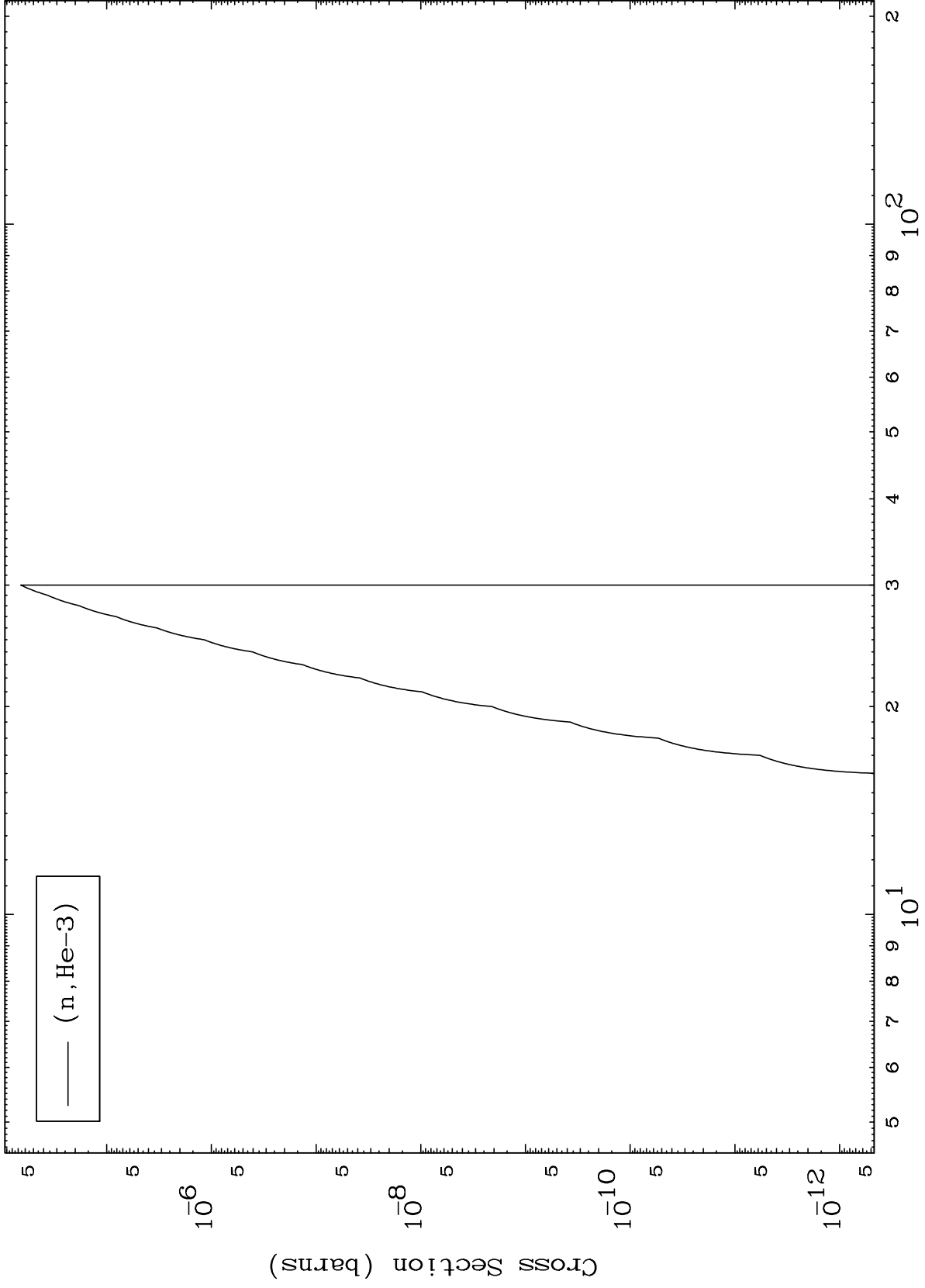
Incident Energy (MeV)

93-Np-238

MAT 9349

(n,He3) Levels  
293 Kelvin Cross Sections

93-Np-238



14

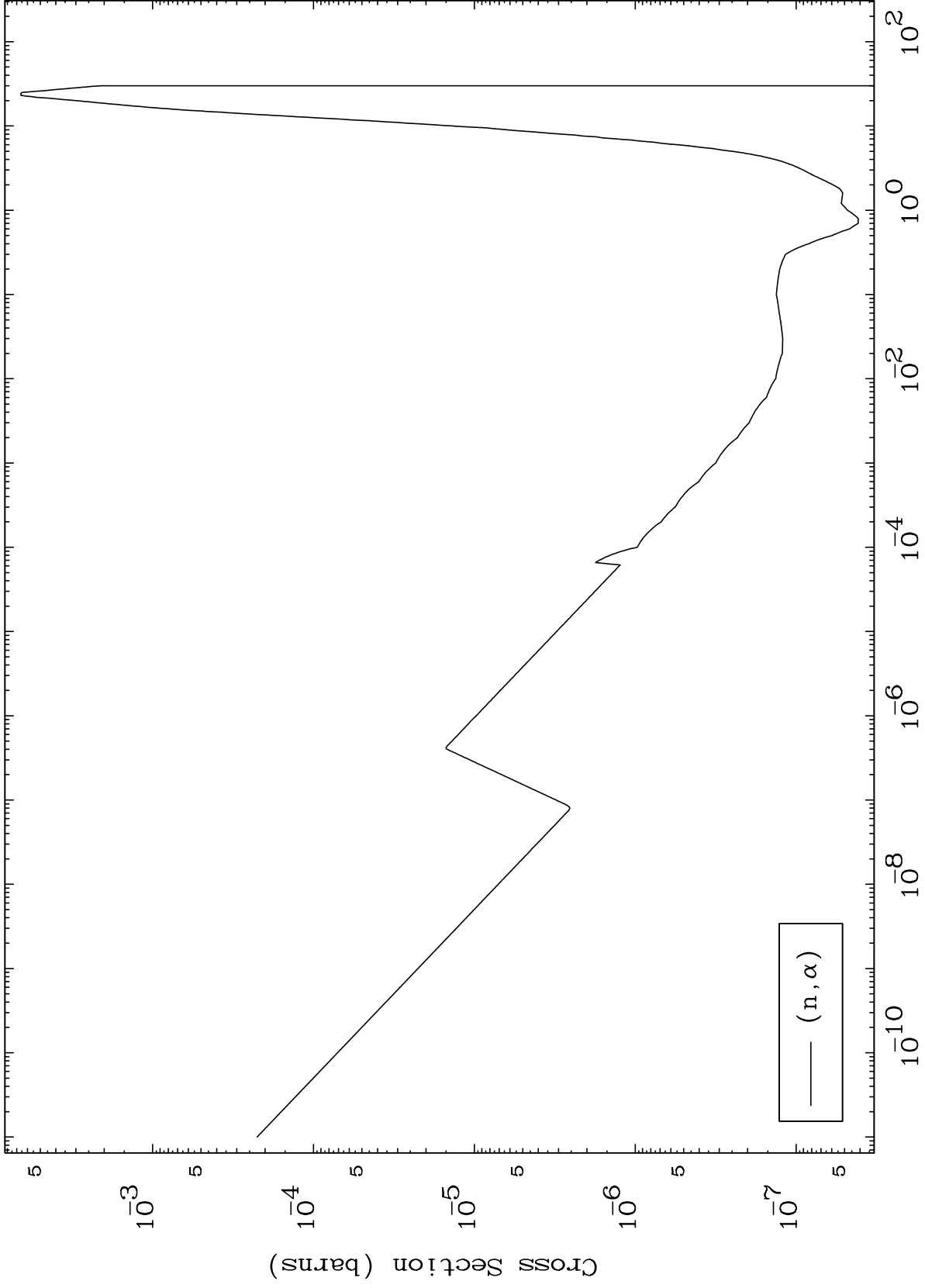
Incident Energy (MeV)

93-Np-238

MAT 9349

(n,α) Levels  
293 Kelvin Cross Sections

93-Np-238

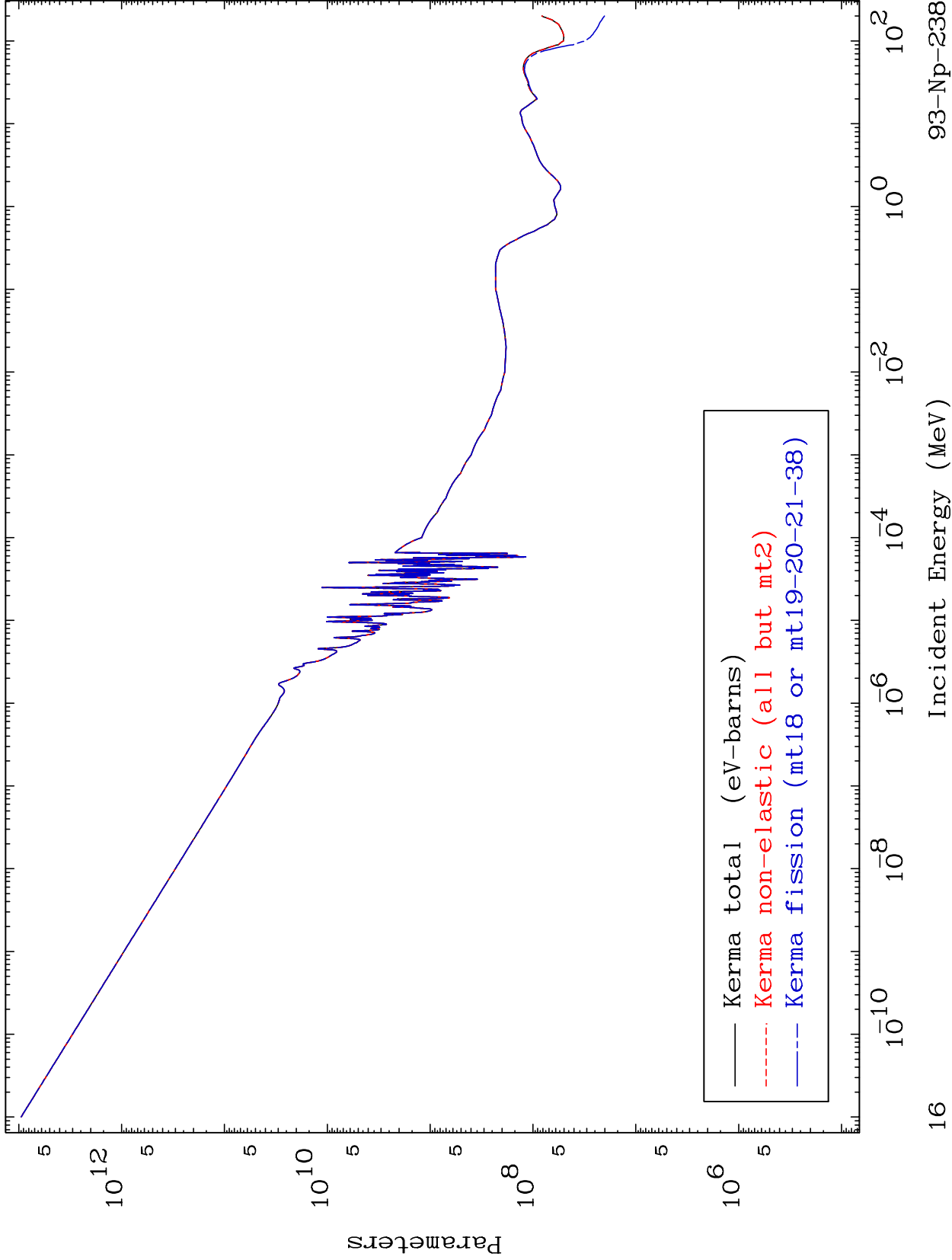


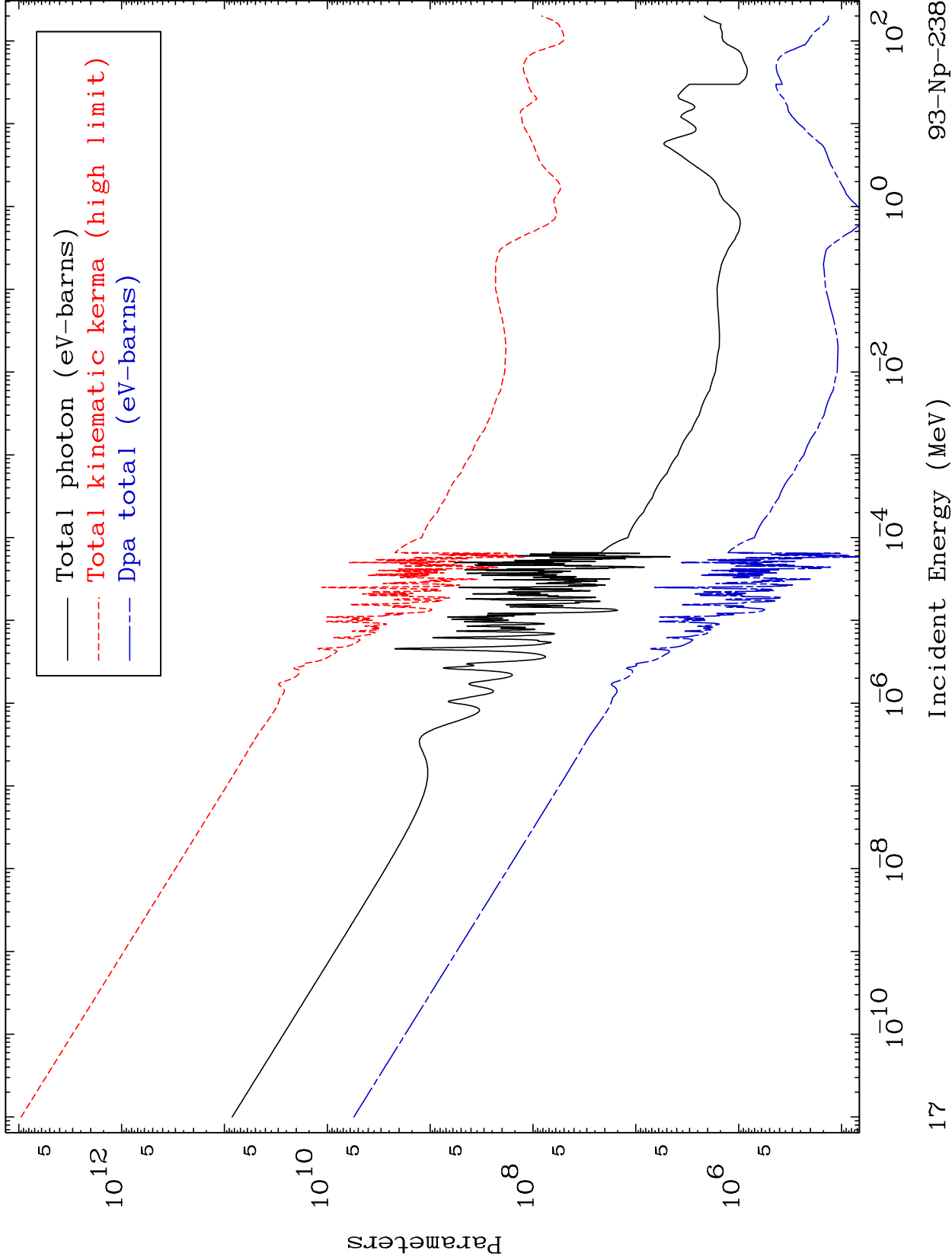
15

Incident Energy (MeV)

93-Np-238



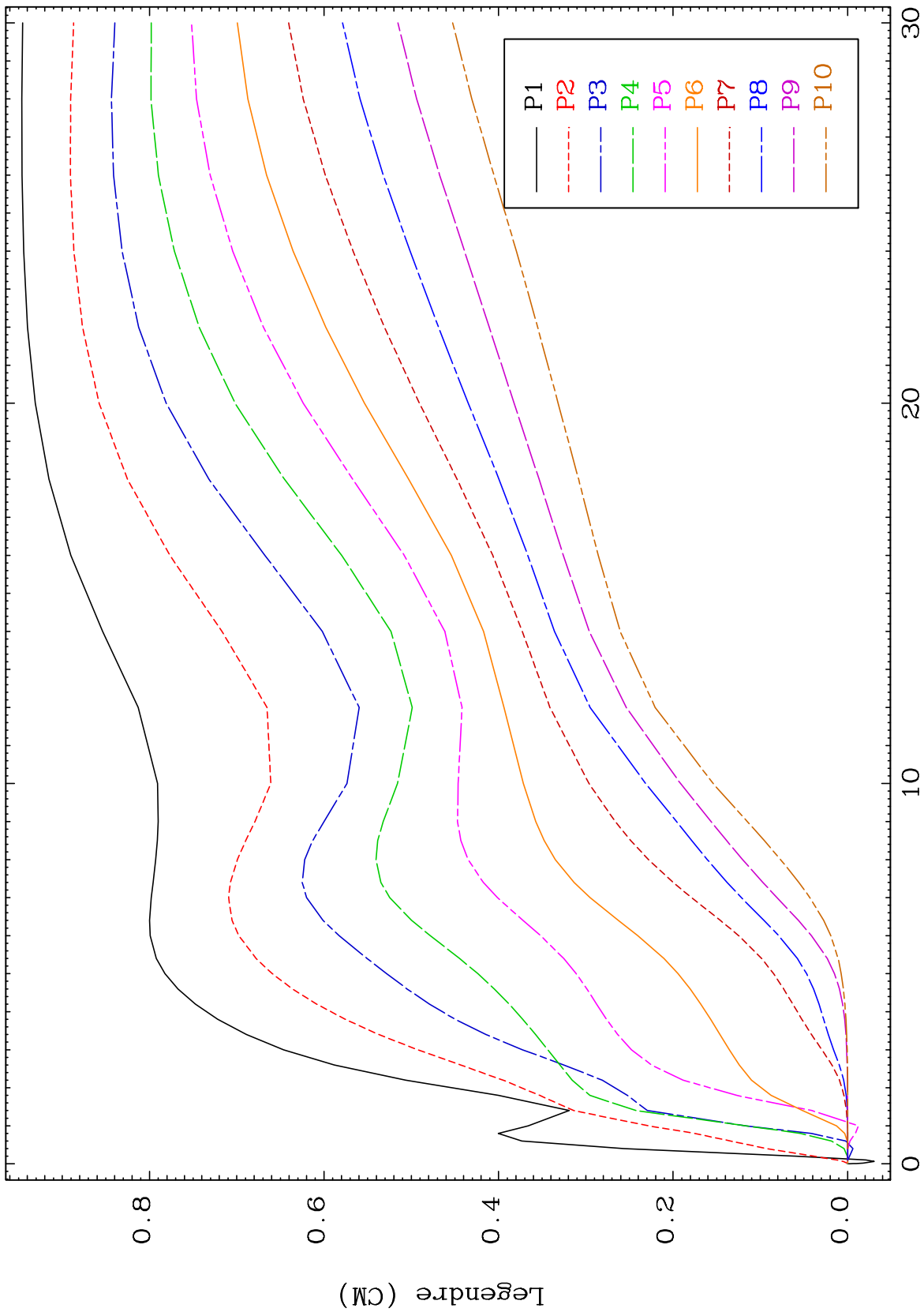




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93-Np-238

Elastic Legendre Coefficients



93-Np-238

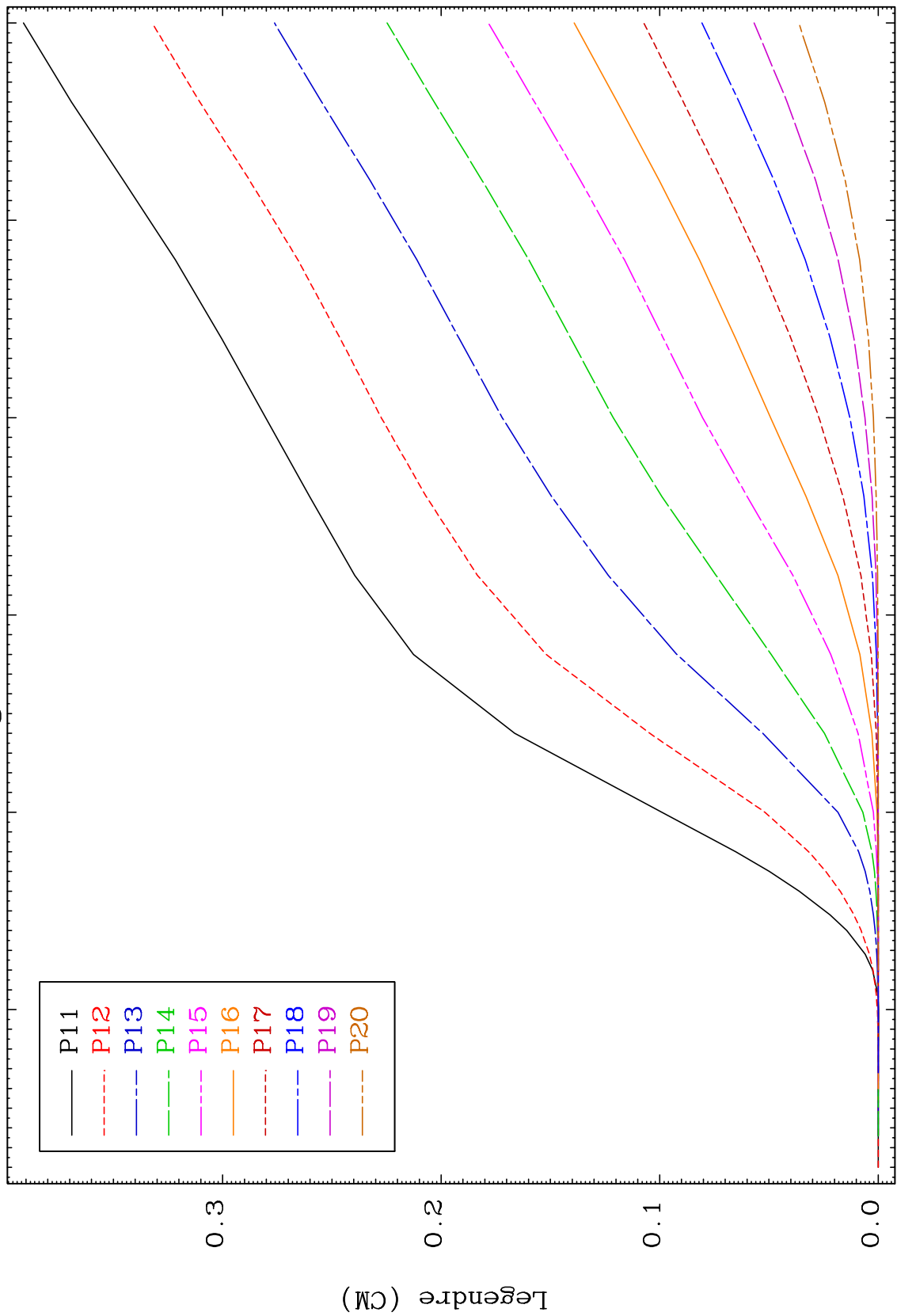
Incident Energy (MeV)

18

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Elastic Legendre Coefficients

<sup>93</sup>Np-238



19

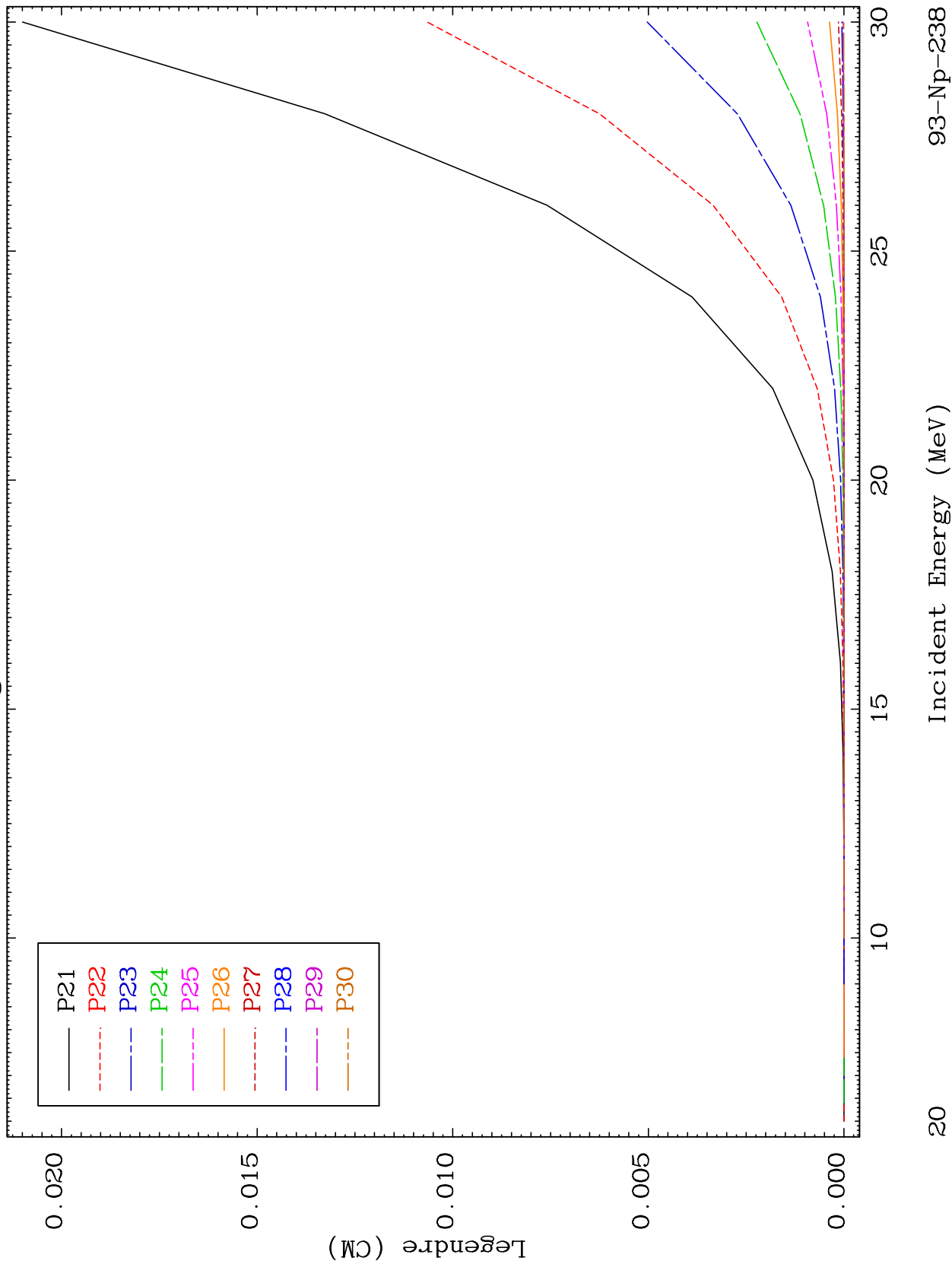
Incident Energy (MeV)

<sup>93</sup>Np-238

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Elastic Legendre Coefficients

<sup>93</sup>Np-238



20

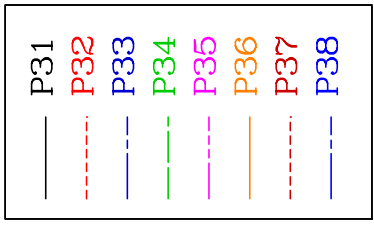
Incident Energy (MeV)

<sup>93</sup>Np-238

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Elastic Legendre Coefficients

93-Np-238



$\times 10^{-6}$

1.5

1.0

0.5

0.0

Legendre (CM)

15

20

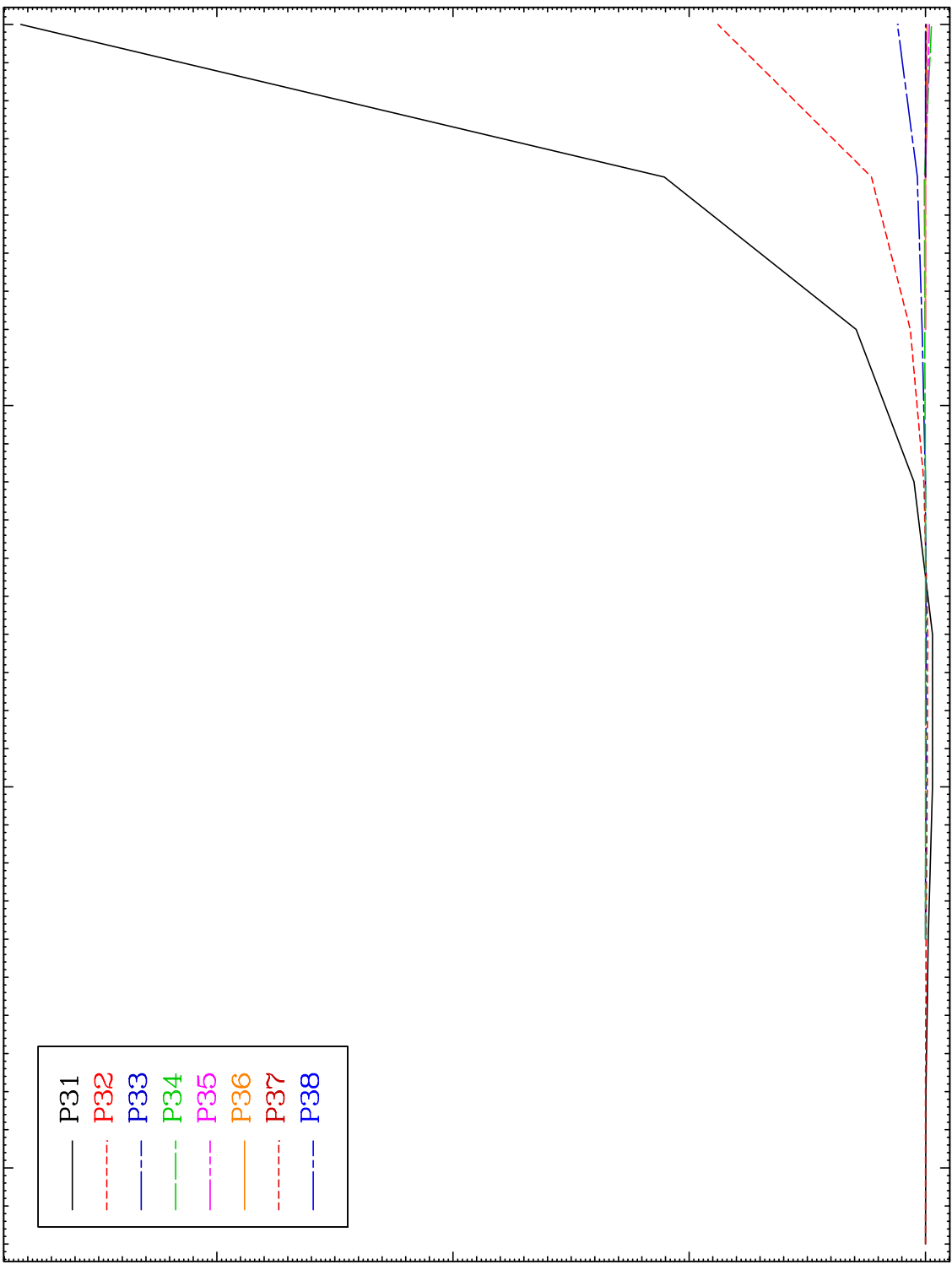
25

30

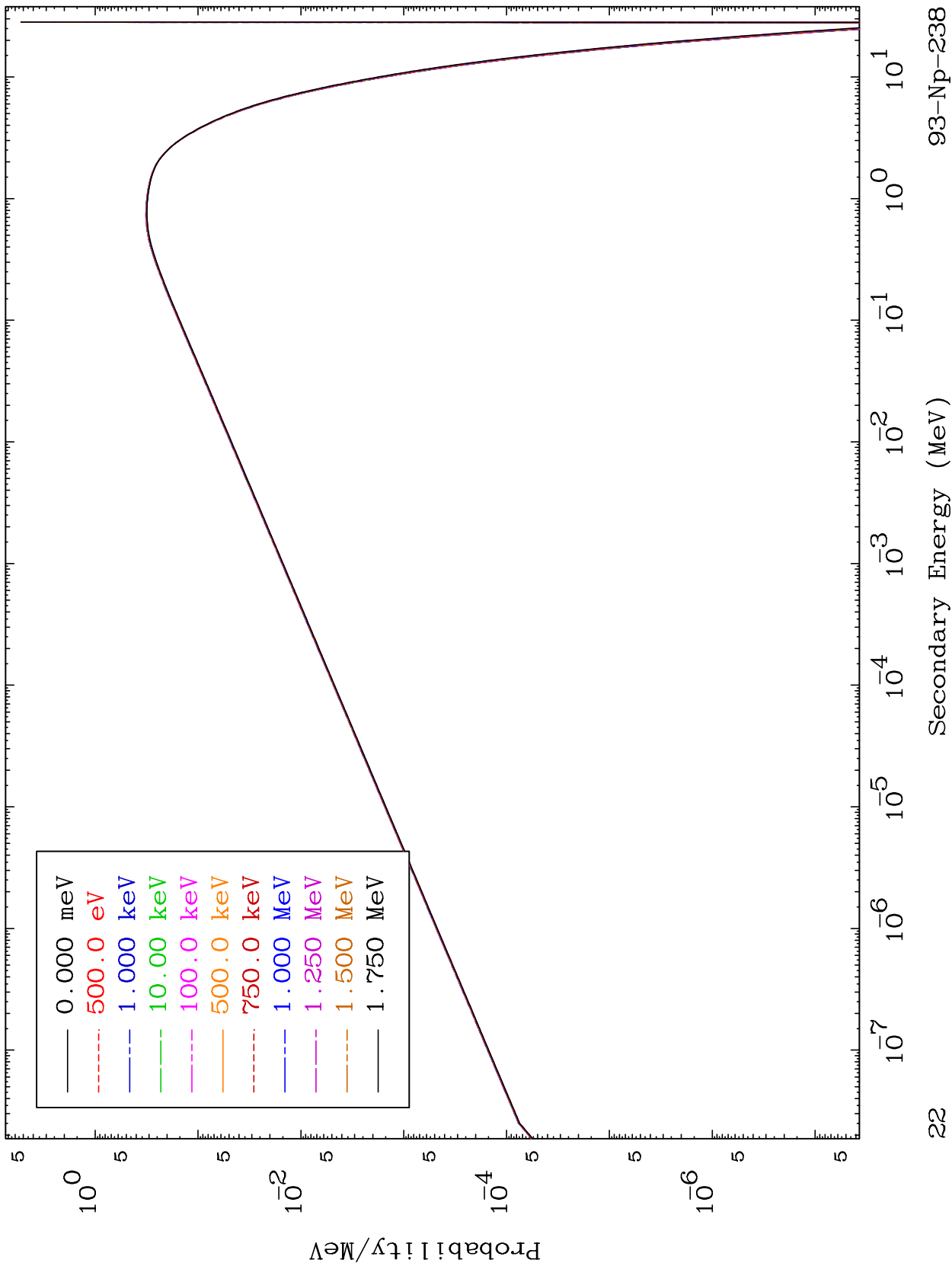
21

Incident Energy (MeV)

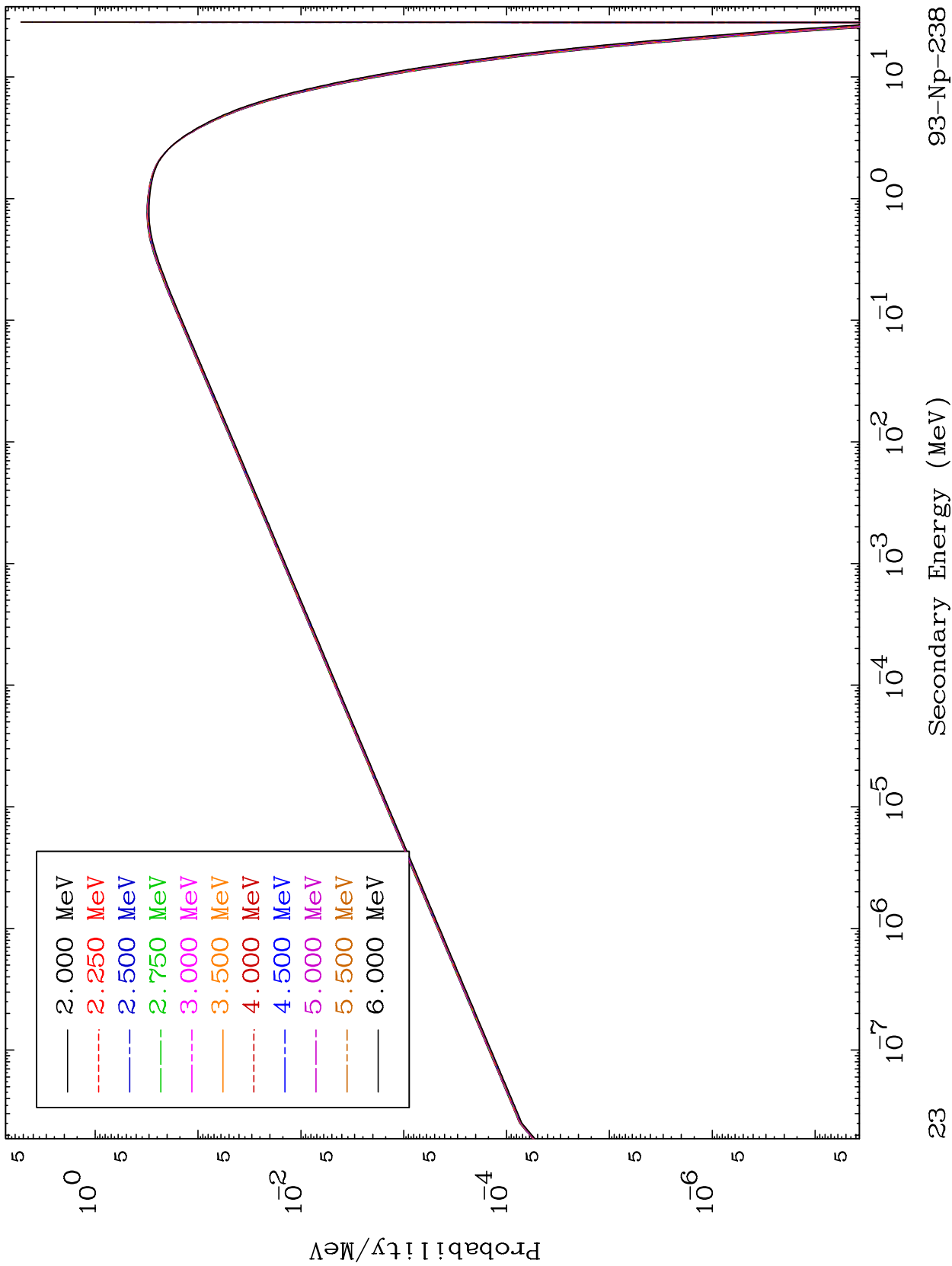
93-Np-238



Fission  
Energy Distribution

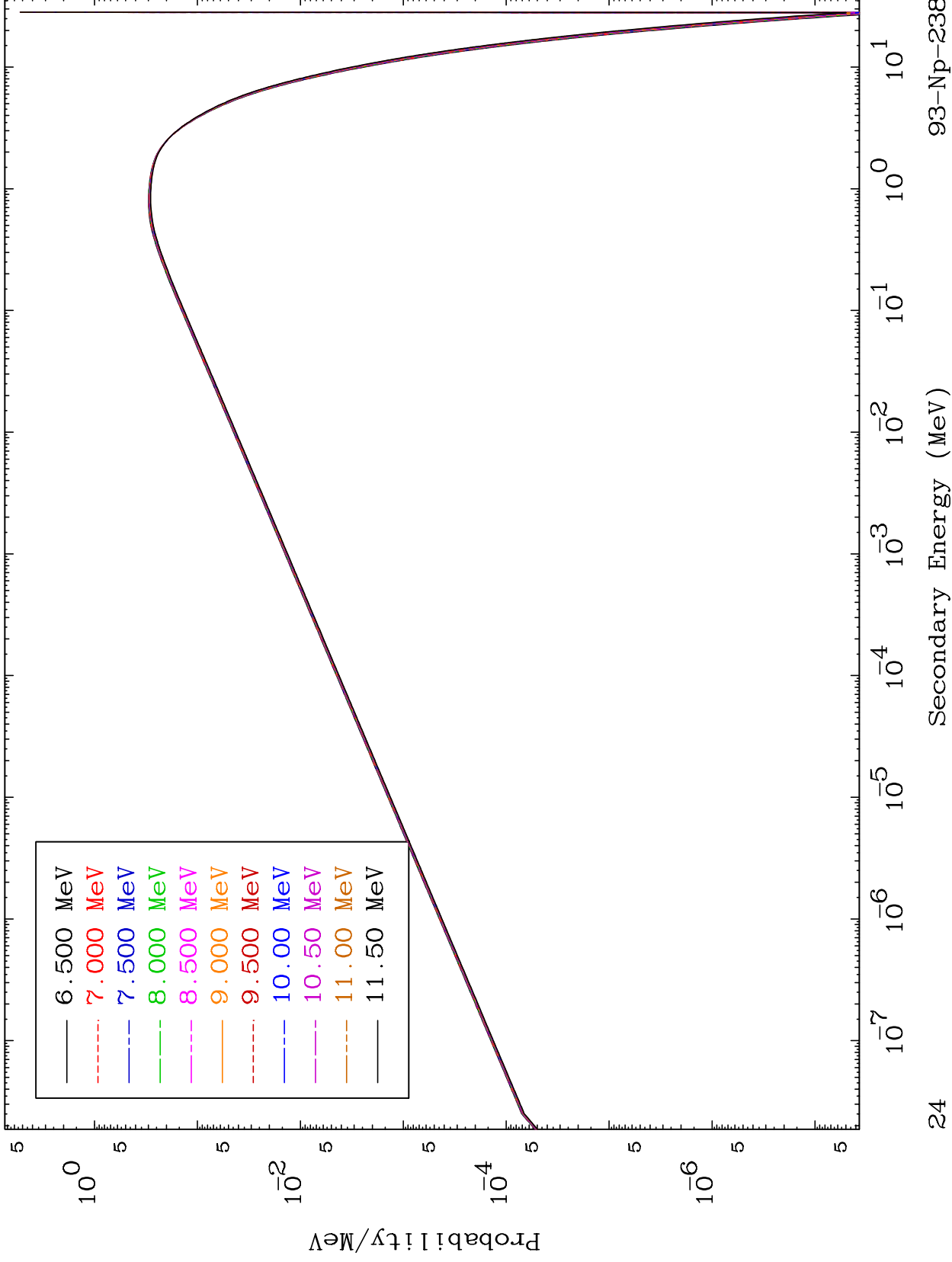


Fission Energy Distribution

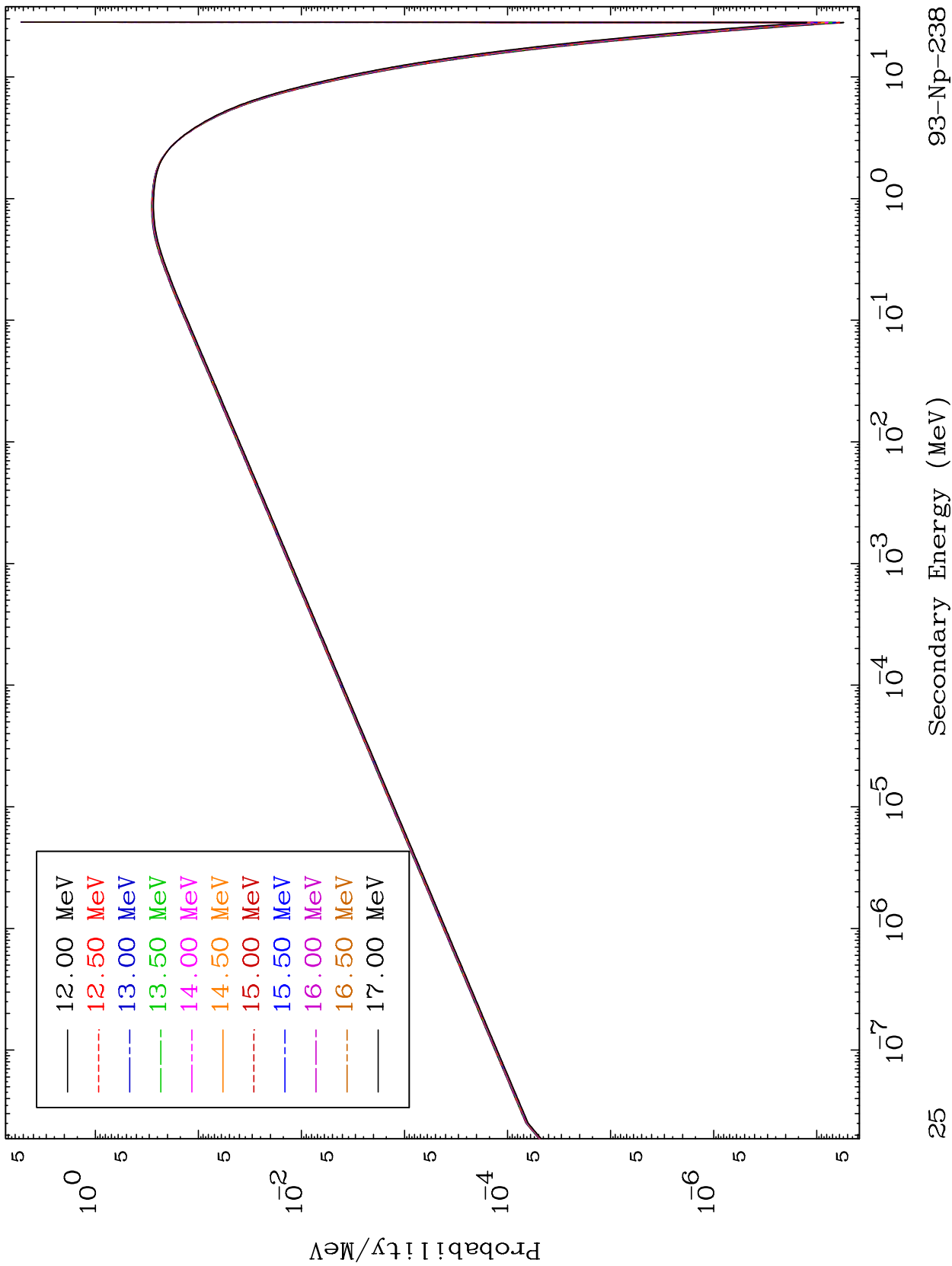




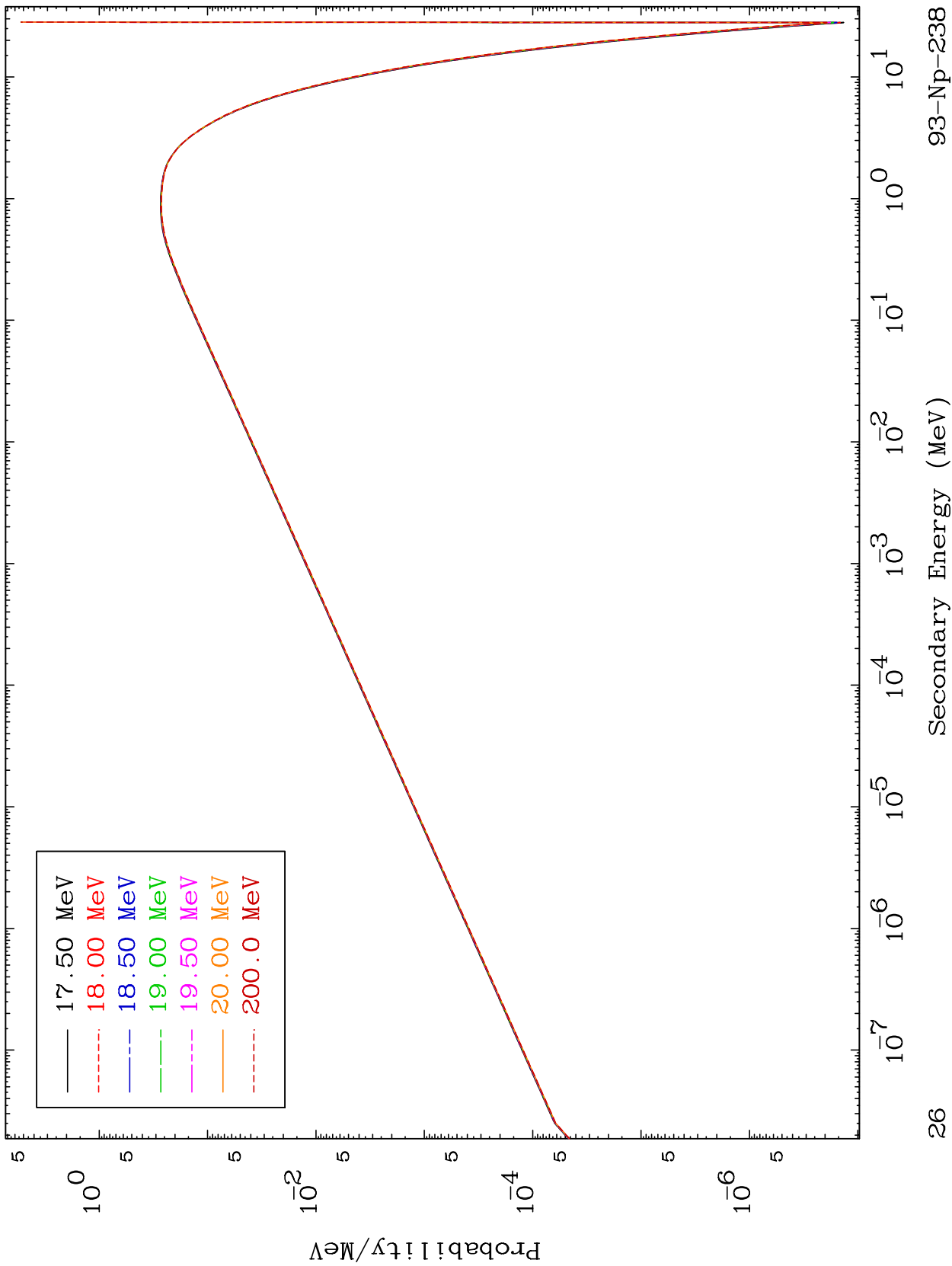
Fission  
Energy Distribution



Fission  
Energy Distribution



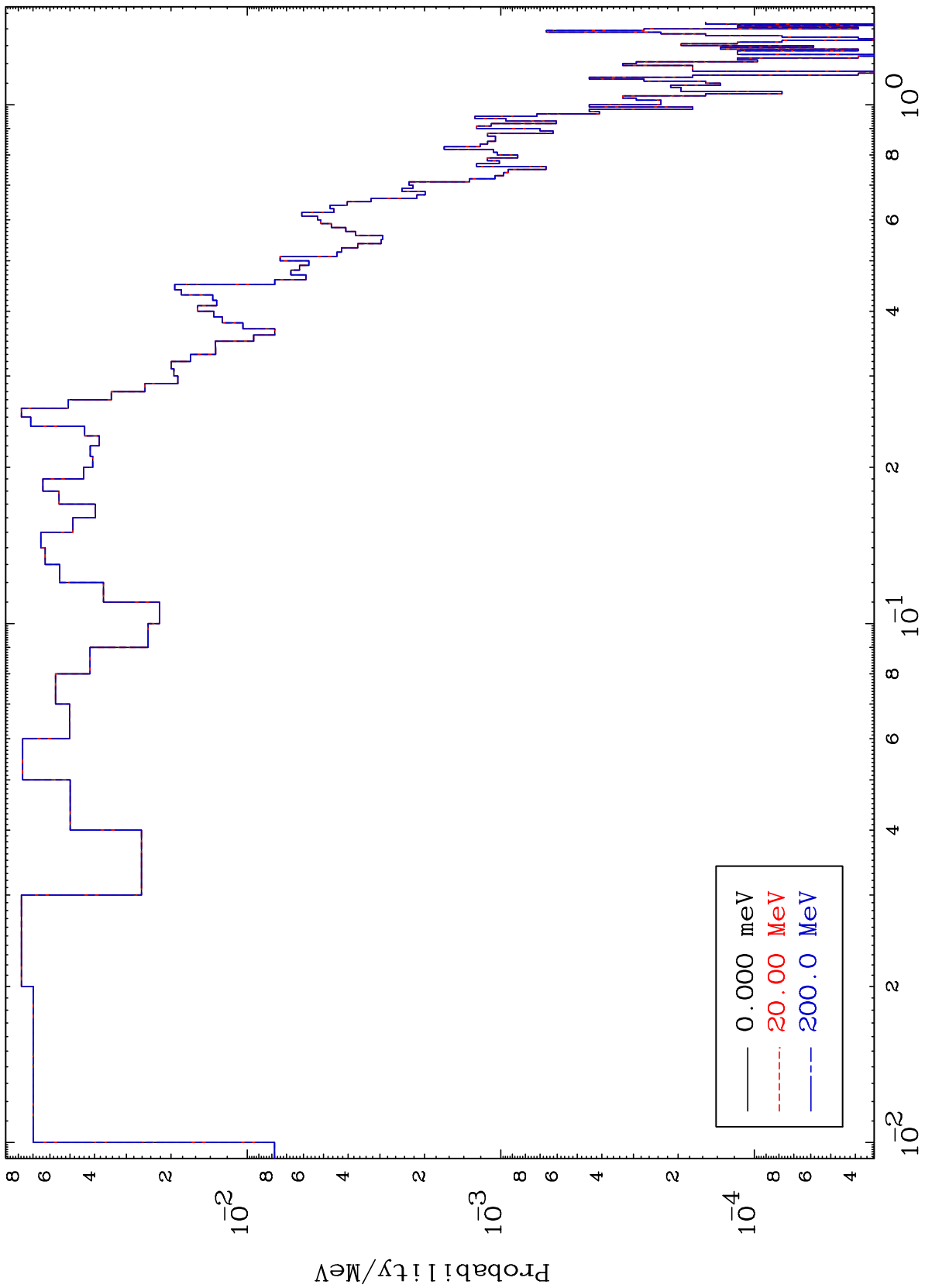
Fission  
Energy Distribution



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Delayed  $\bar{\nu}$   
Energy Distribution



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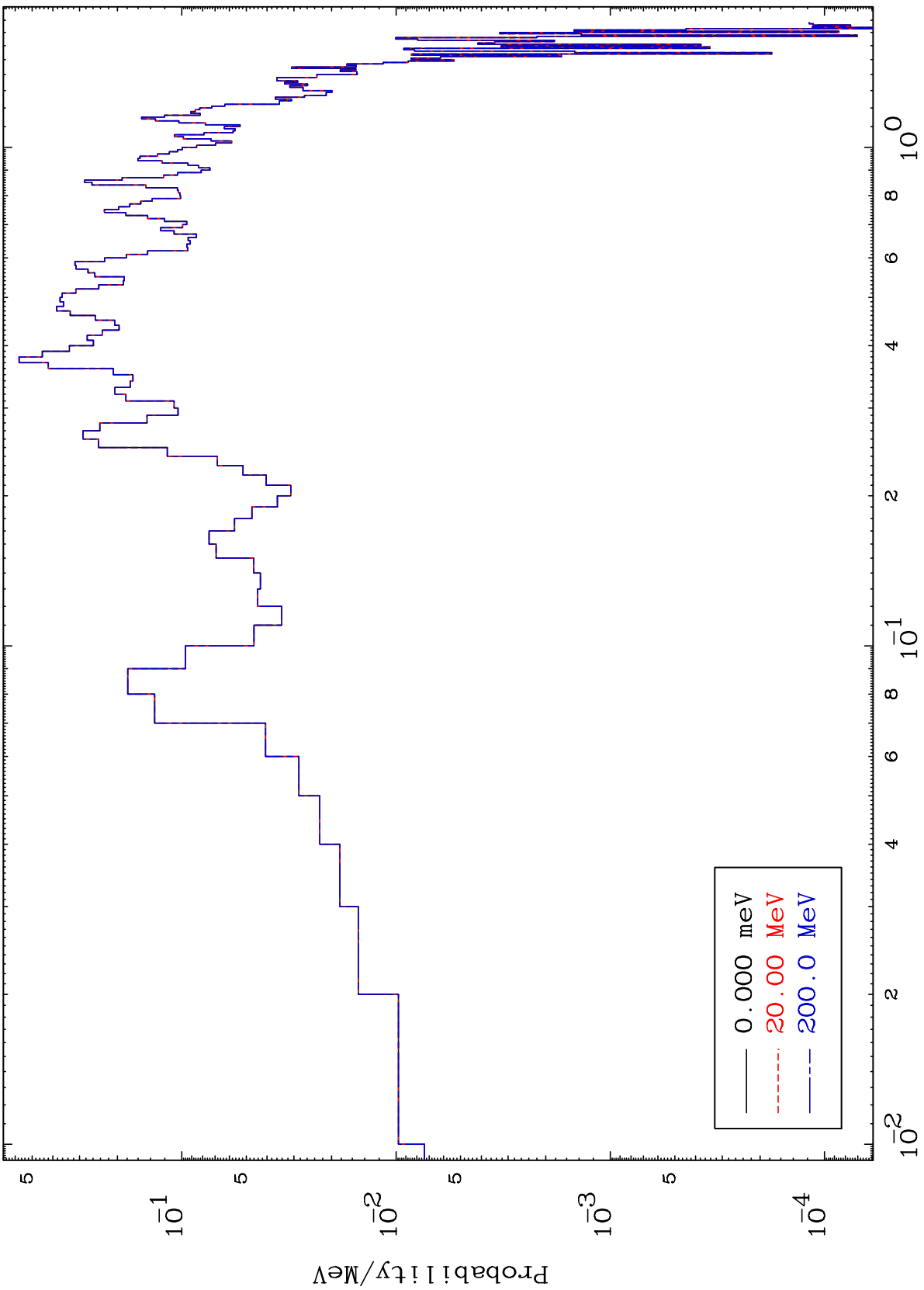
Secondary Energy (MeV)

93-Np-238

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93-Np-238

Delayed  $\bar{\nu}$   
Energy Distribution

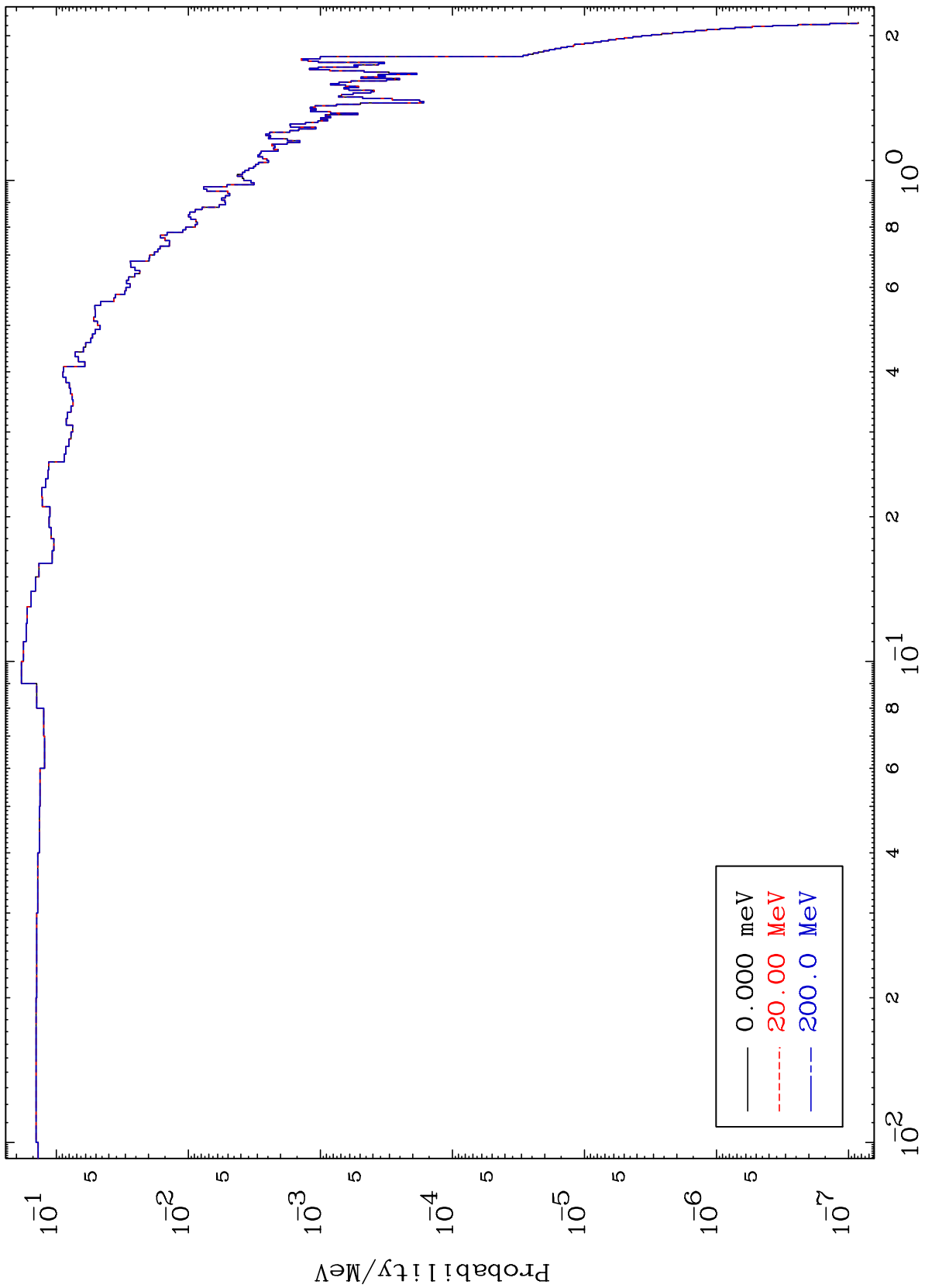


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Secondary Energy (MeV)

93-Np-238

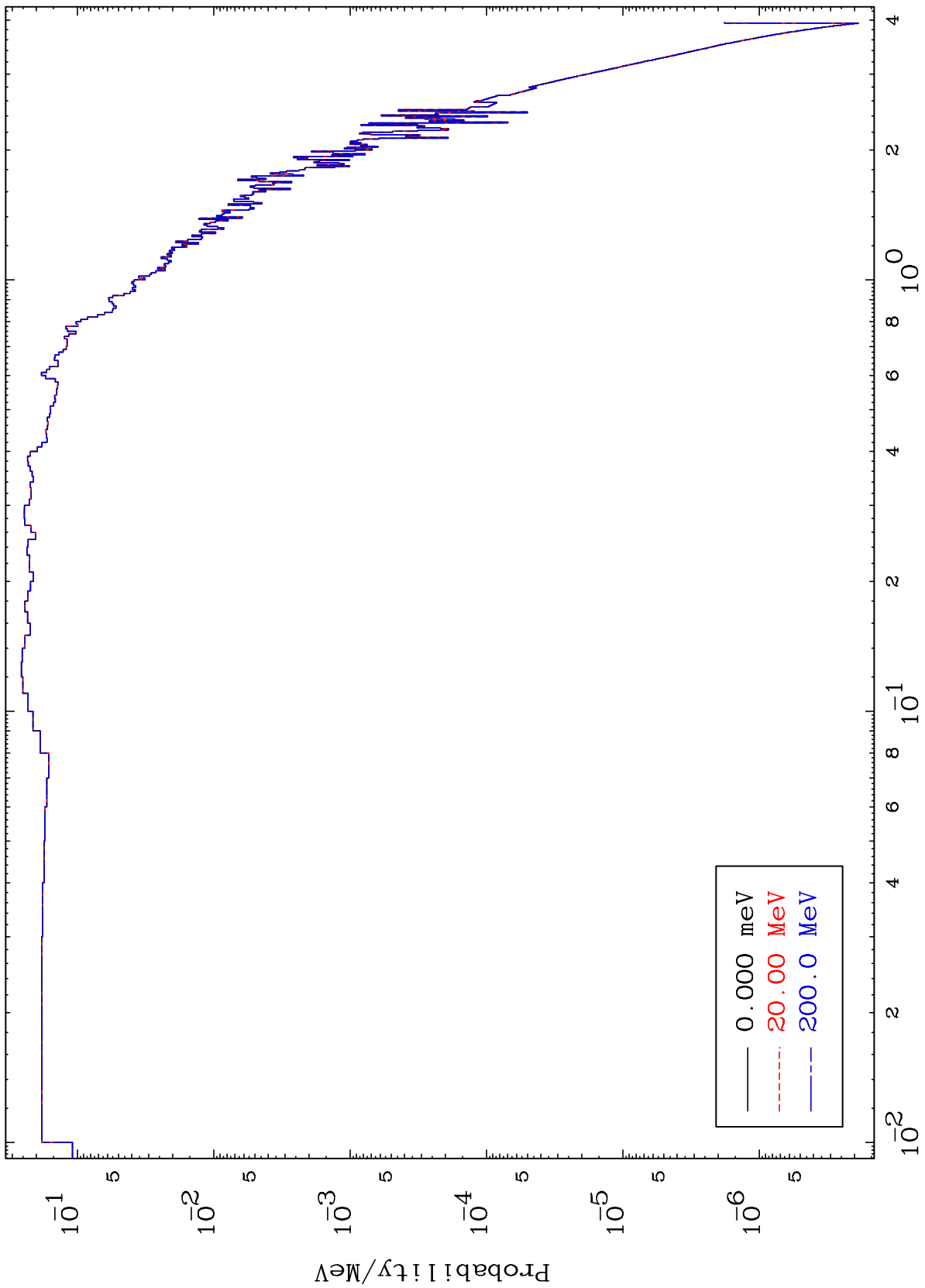
Delayed  $\bar{\nu}$   
Energy Distribution



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93-Np-238

Delayed  $\bar{\nu}$   
Energy Distribution

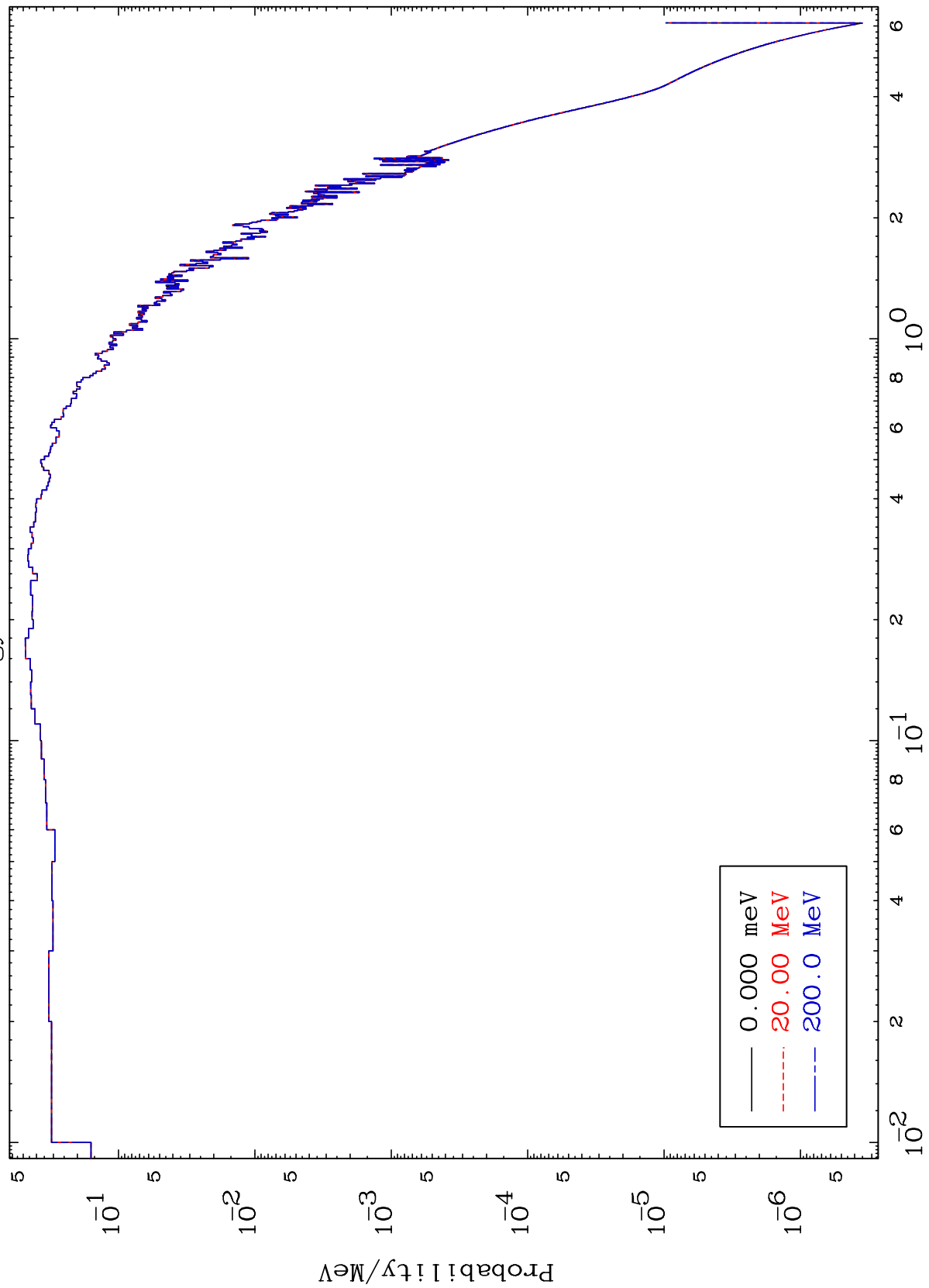


30

Secondary Energy (MeV)

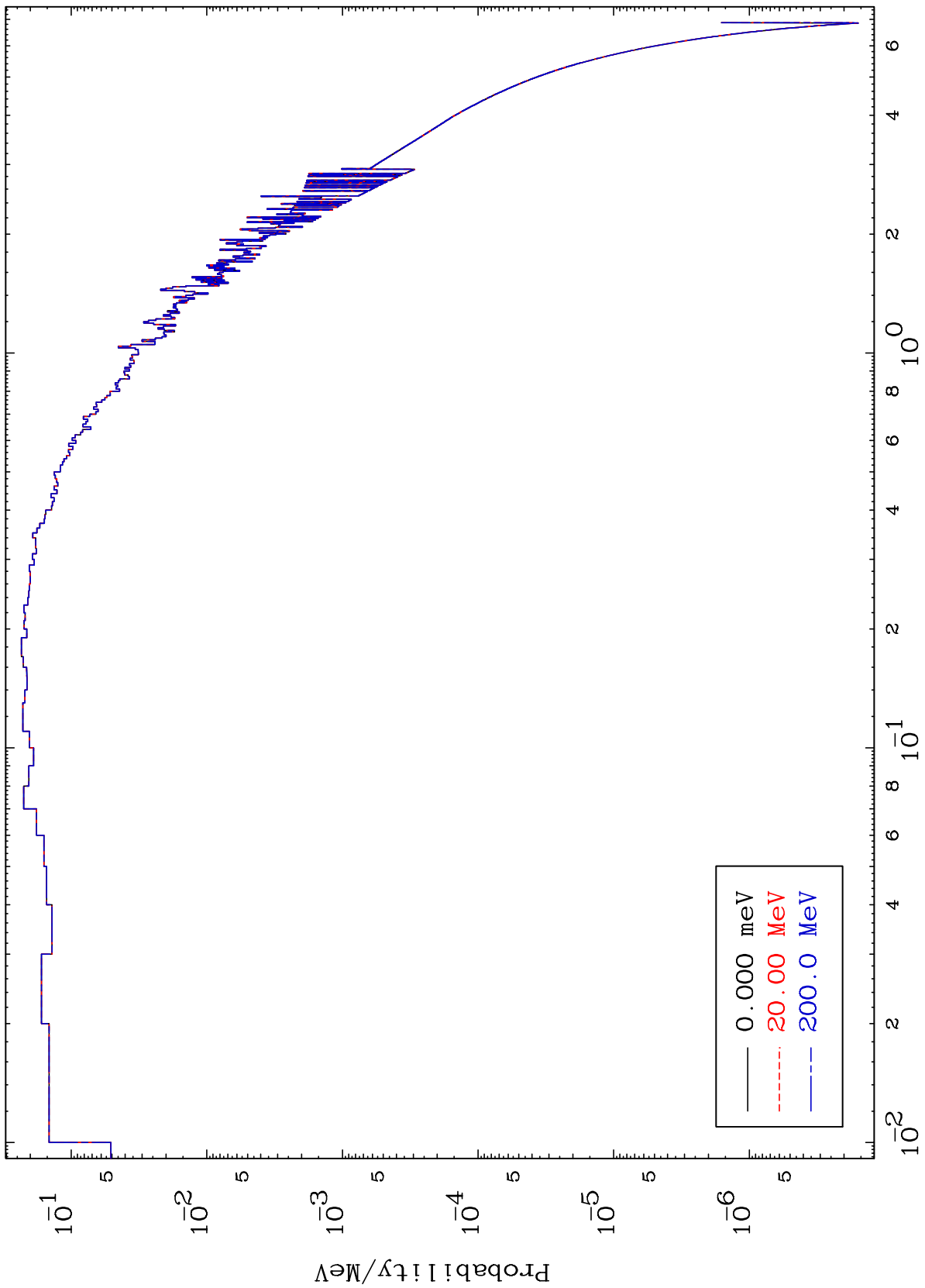
93-Np-238

Delayed  $\bar{\nu}$   
Energy Distribution

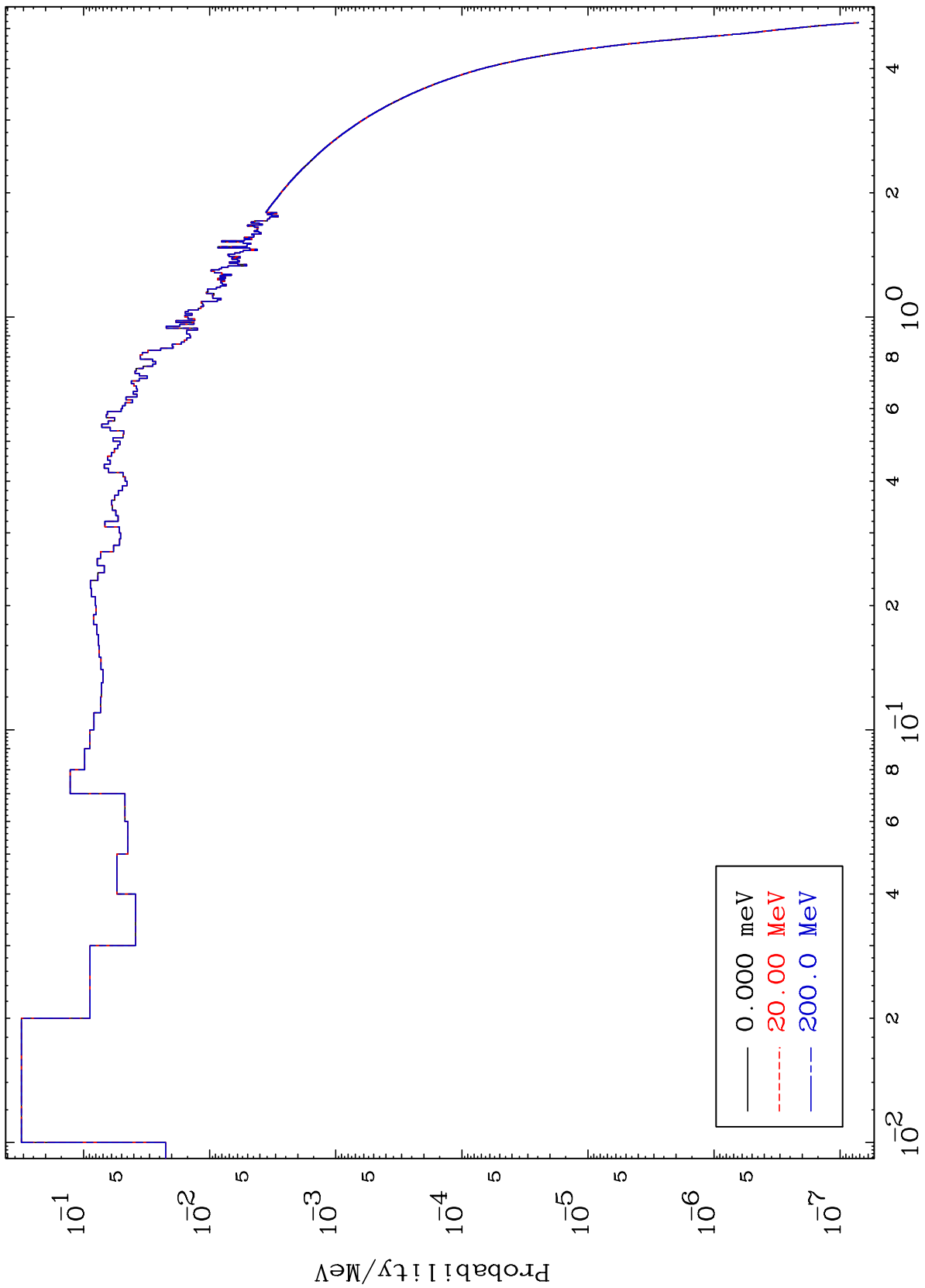




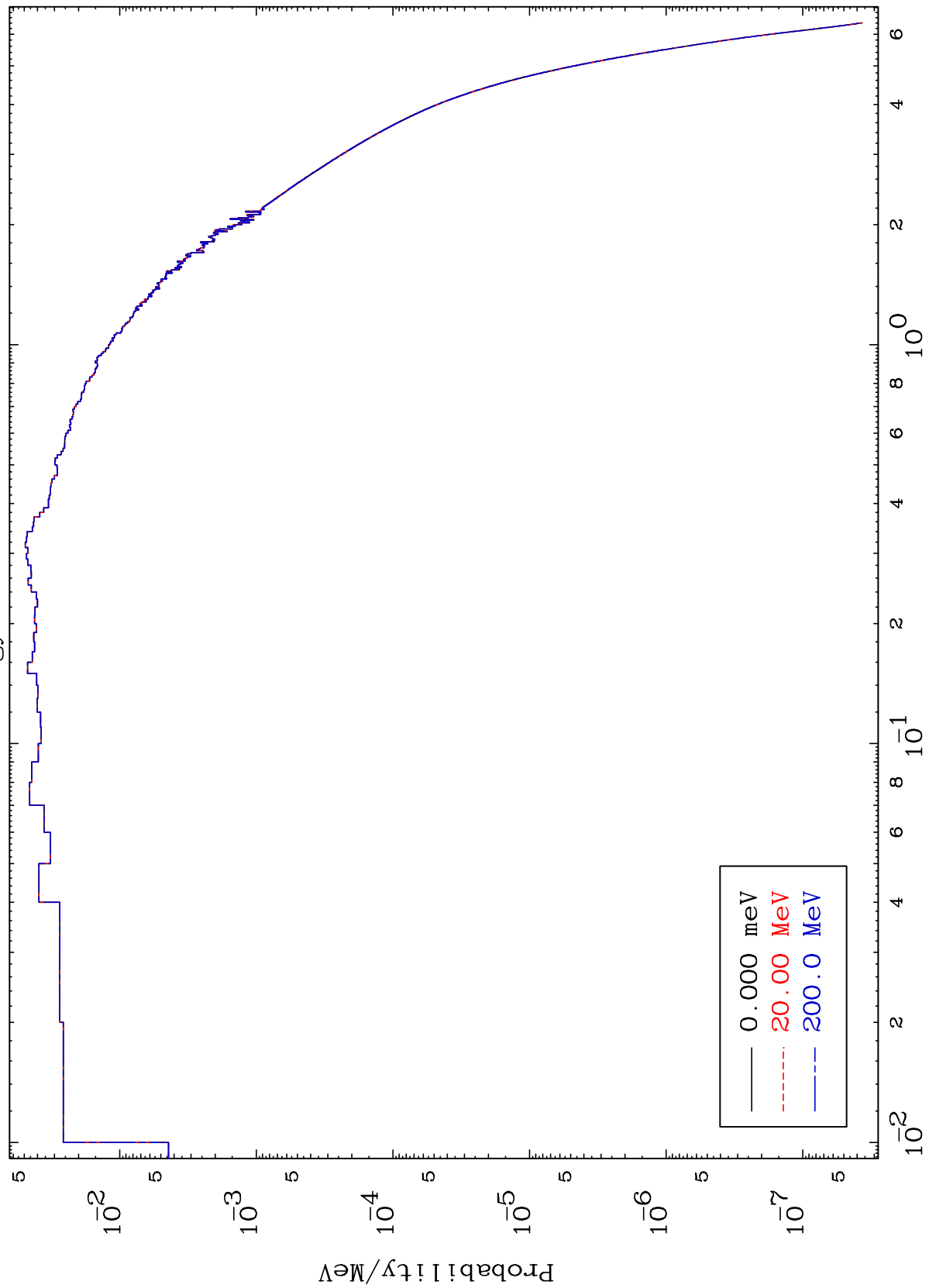
Delayed  $\bar{\nu}$   
Energy Distribution



Delayed  $\bar{\nu}$   
Energy Distribution



Delayed  $\bar{\nu}$   
Energy Distribution

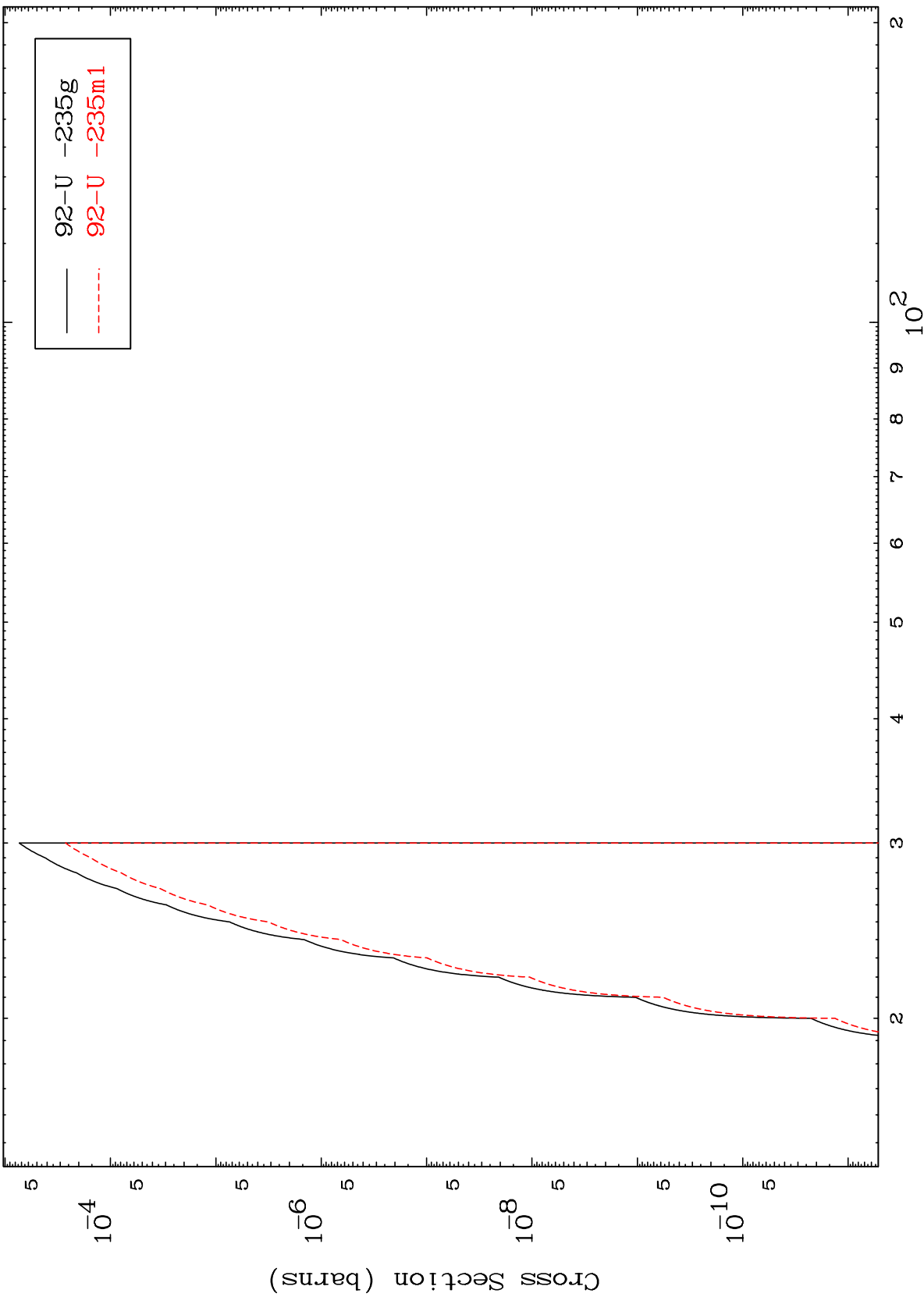


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(n,2n) d

93-Np-238

Radionuclide Production Cross Section



92-U -235g  
92-U -235m1

35

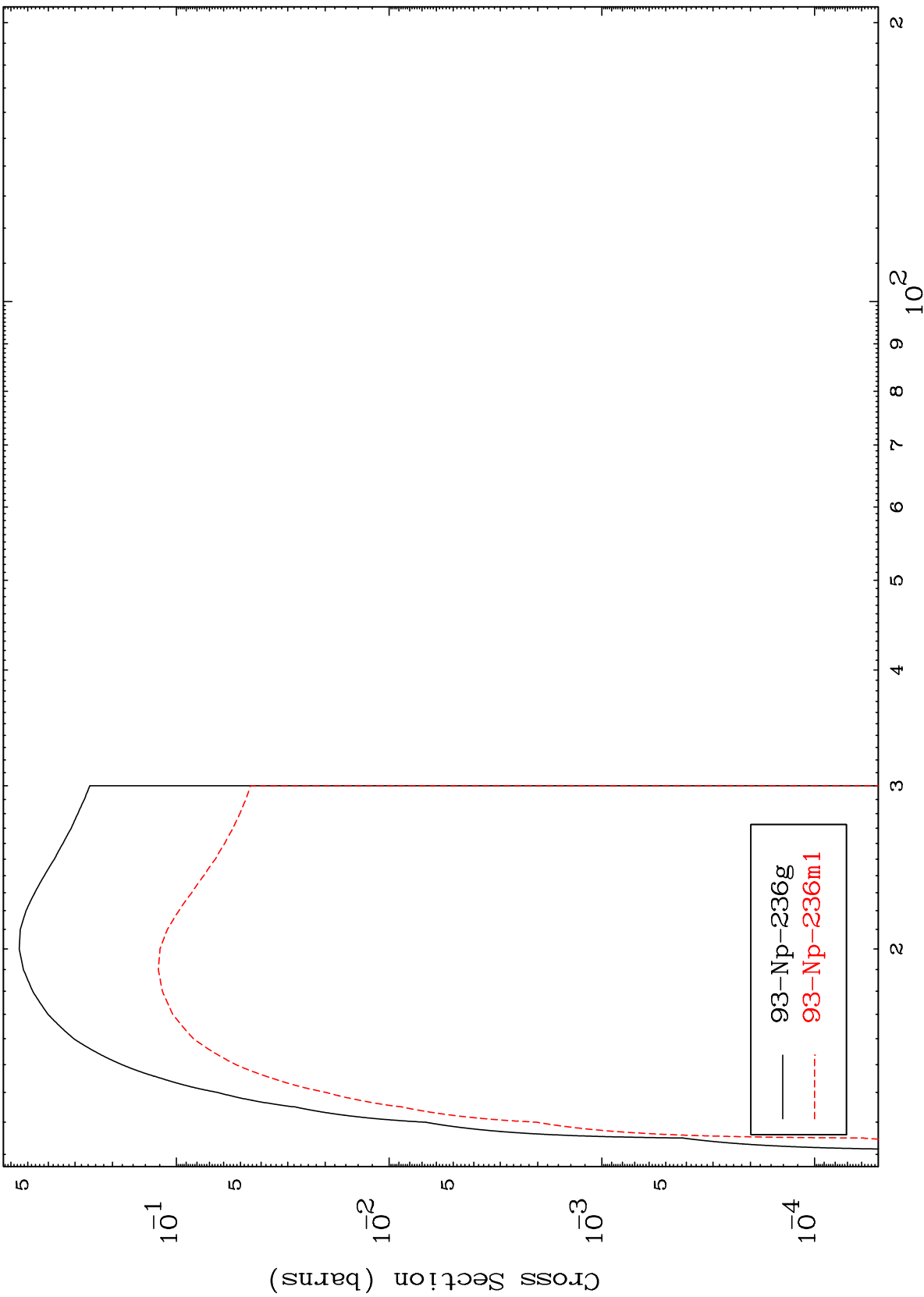
Incident Energy (MeV)

93-Np-238

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93-Np-238

(n,3n)  
Radionuclide Production Cross Section



36

Incident Energy (MeV)

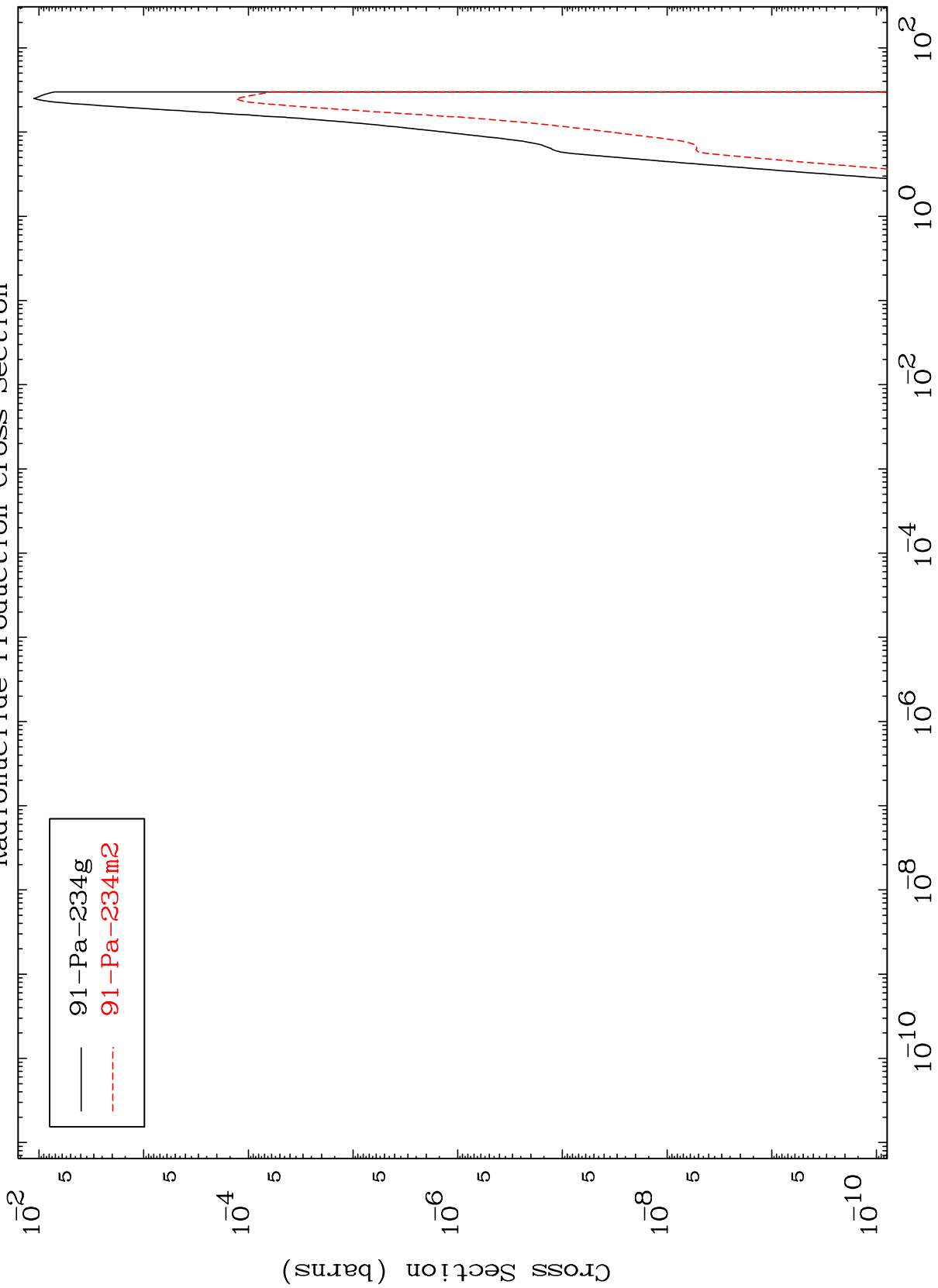
93-Np-238

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$(n, n') \alpha$

$^{93}\text{Np-238}$

Radionuclide Production Cross Section

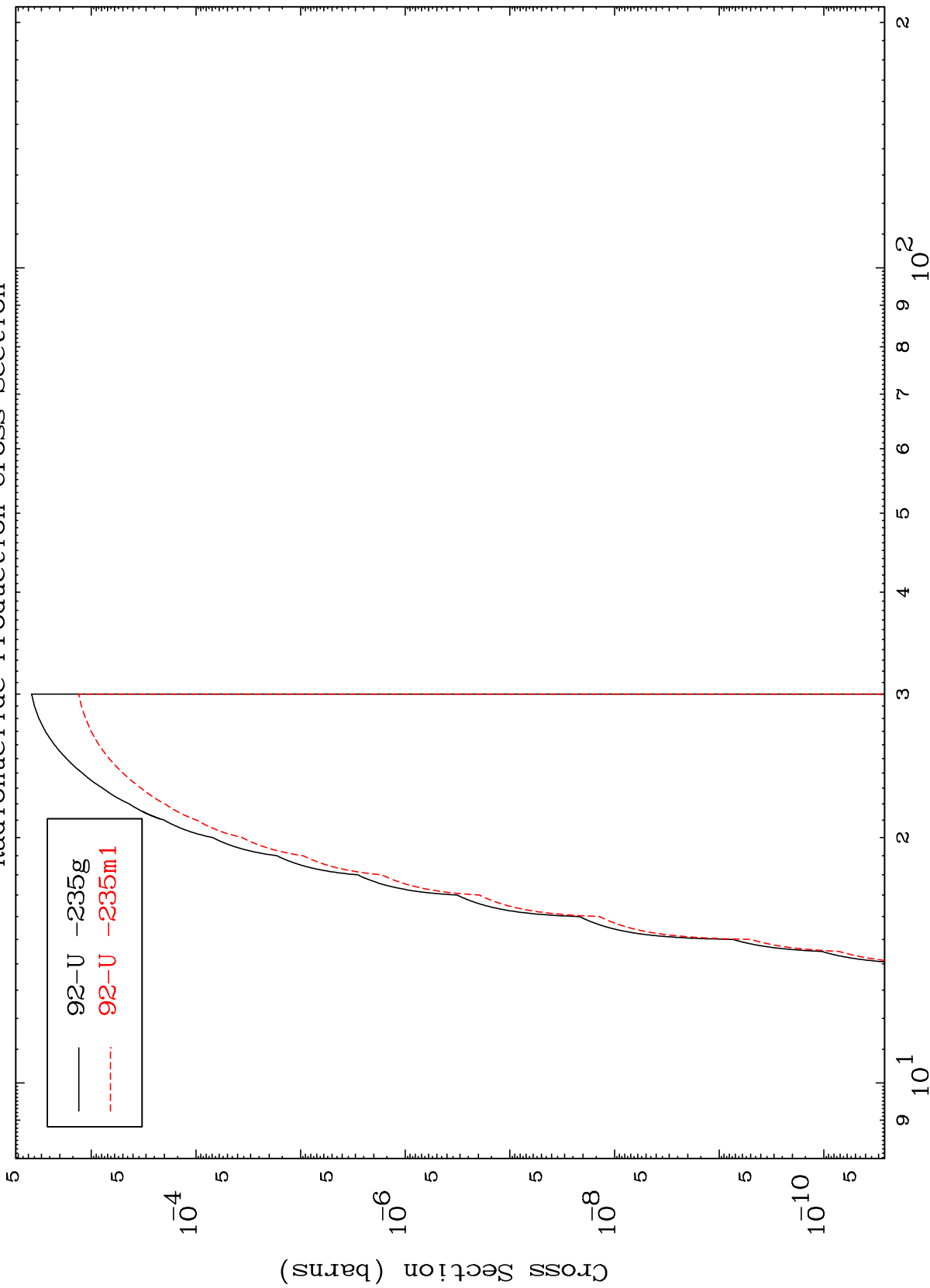


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(n,n') t

93-Np-238

Radionuclide Production Cross Section



92-U -235g  
92-U -235m1

38

Incident Energy (MeV)

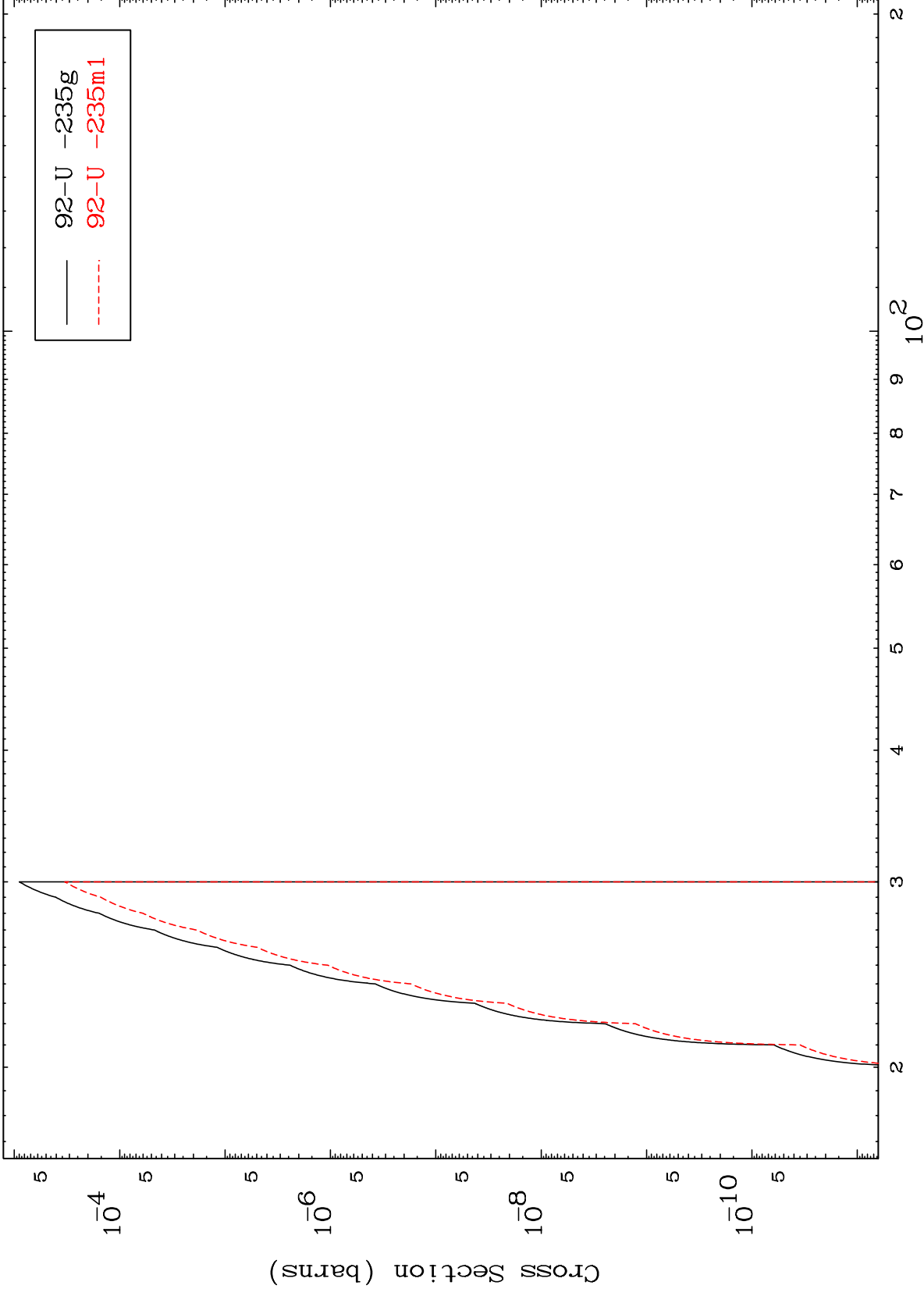
93-Np-238

MAT 9349

(n,3n) p

93-Np-238

Radionuclide Production Cross Section



92-U -235g  
92-U -235m1

39

Incident Energy (MeV)

93-Np-238