

Program EVALPLOT  
(Version 2018-1)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550  
U.S.A.

Tele: 925-443-1911

E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)

Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

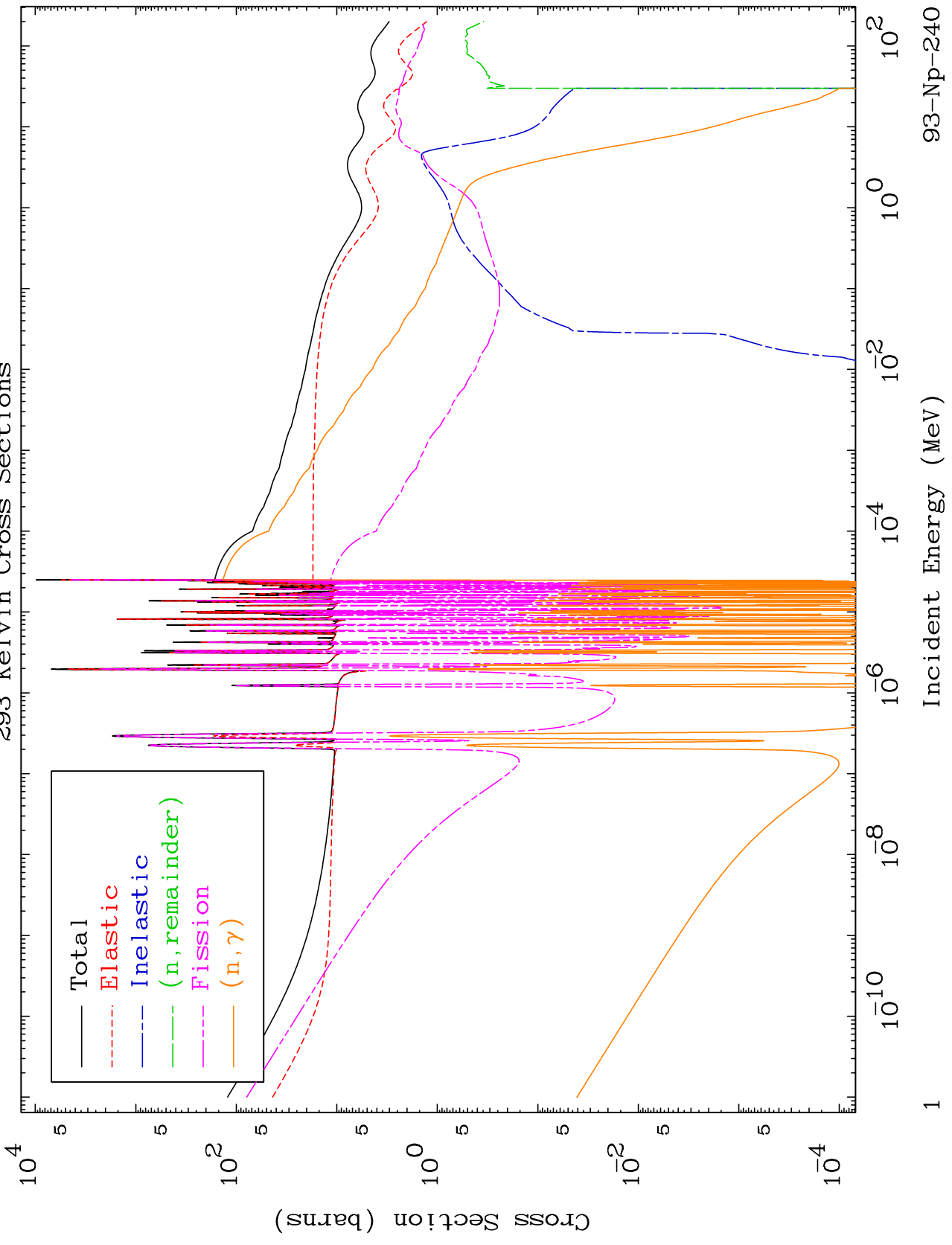
Press Mouse Button to Start

MAT 9356

Major

293 Kelvin Cross Sections

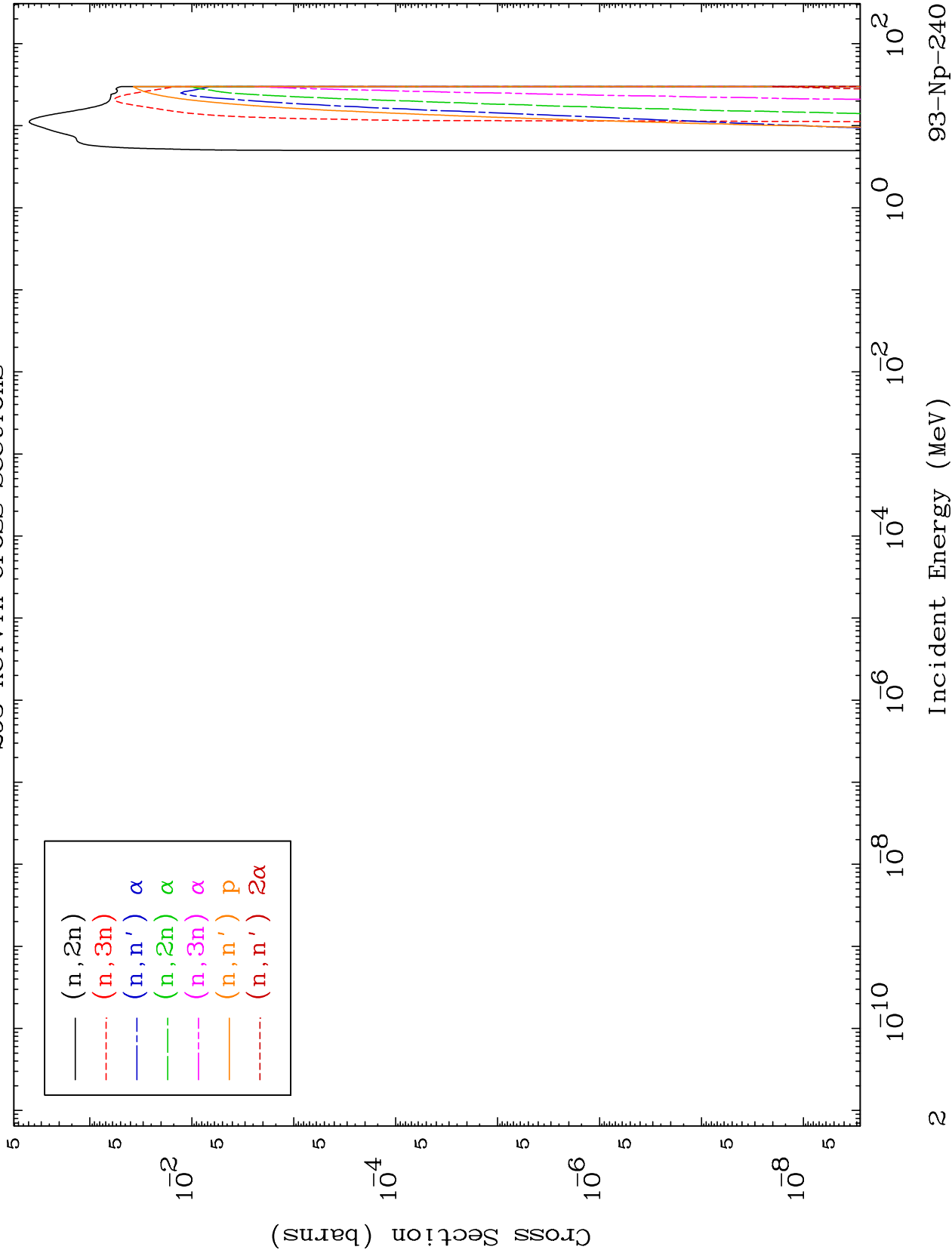
93-Np-240



MAT 9356

Neutron Production  
293 Kelvin Cross Sections

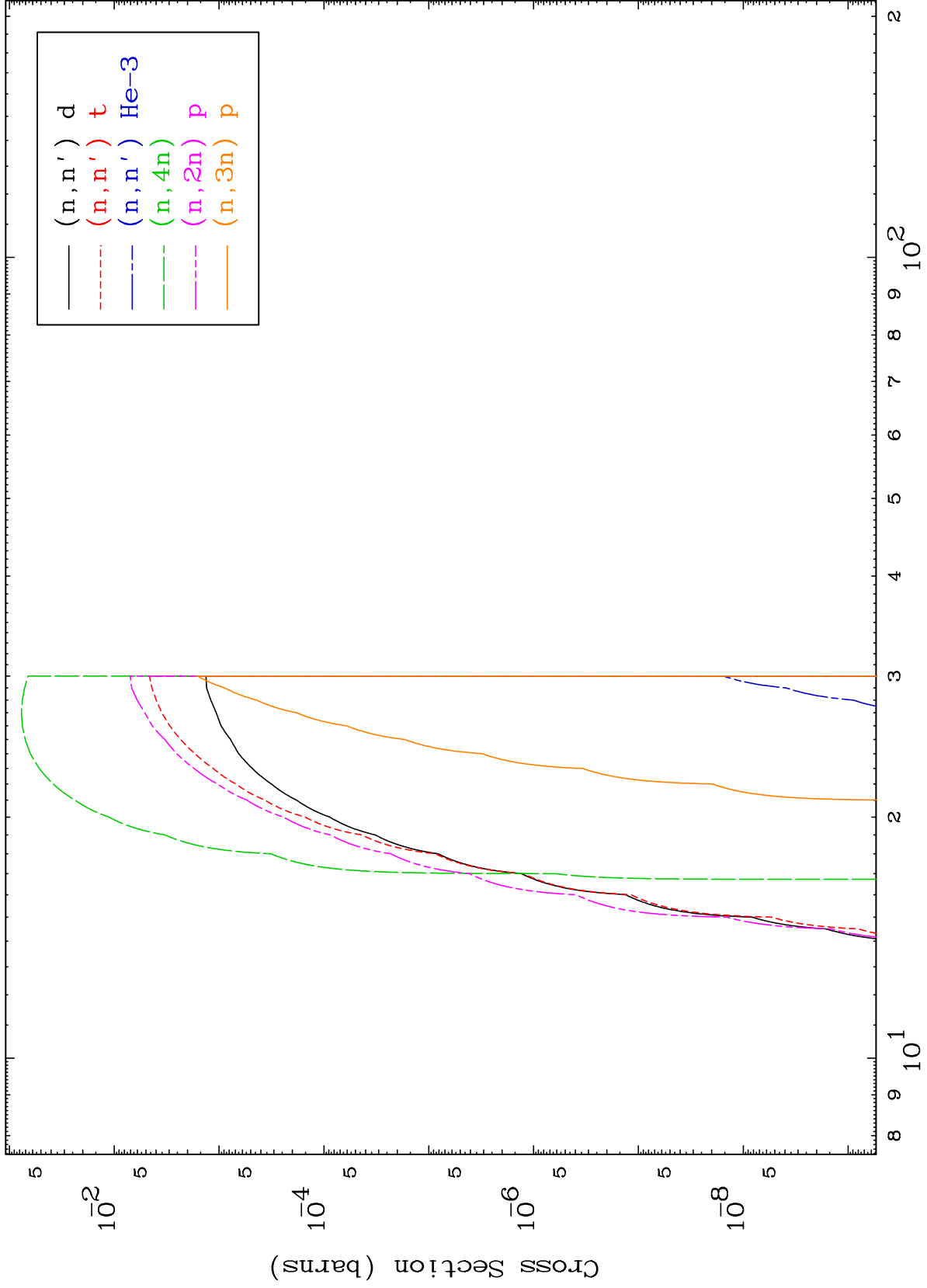
93-Np-240



MAT 9356

Neutron Production  
293 Kelvin Cross Sections

93-Np-240



Incident Energy (MeV)

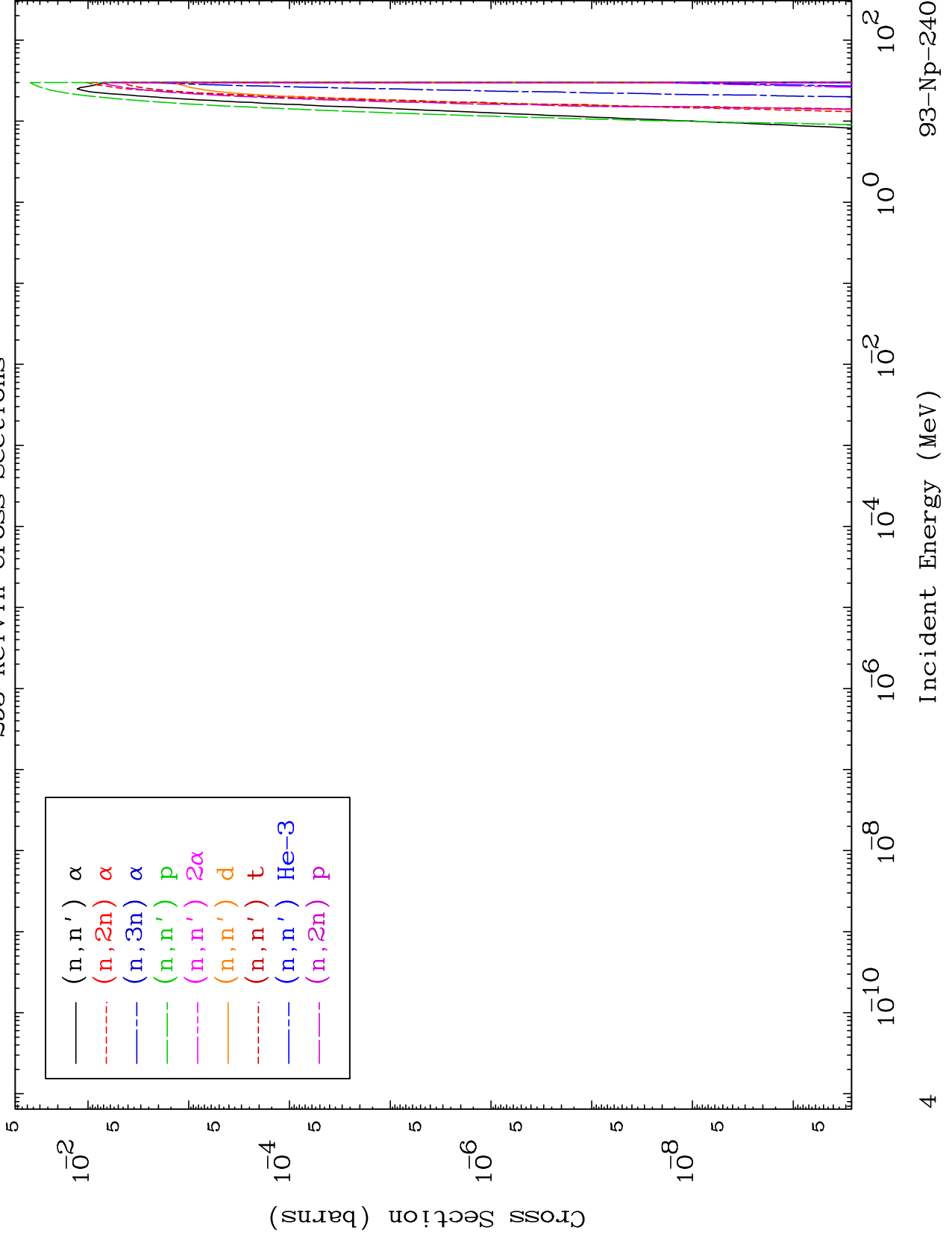
93-Np-240

3

MAT 9356

Charged Particle  
293 Kelvin Cross Sections

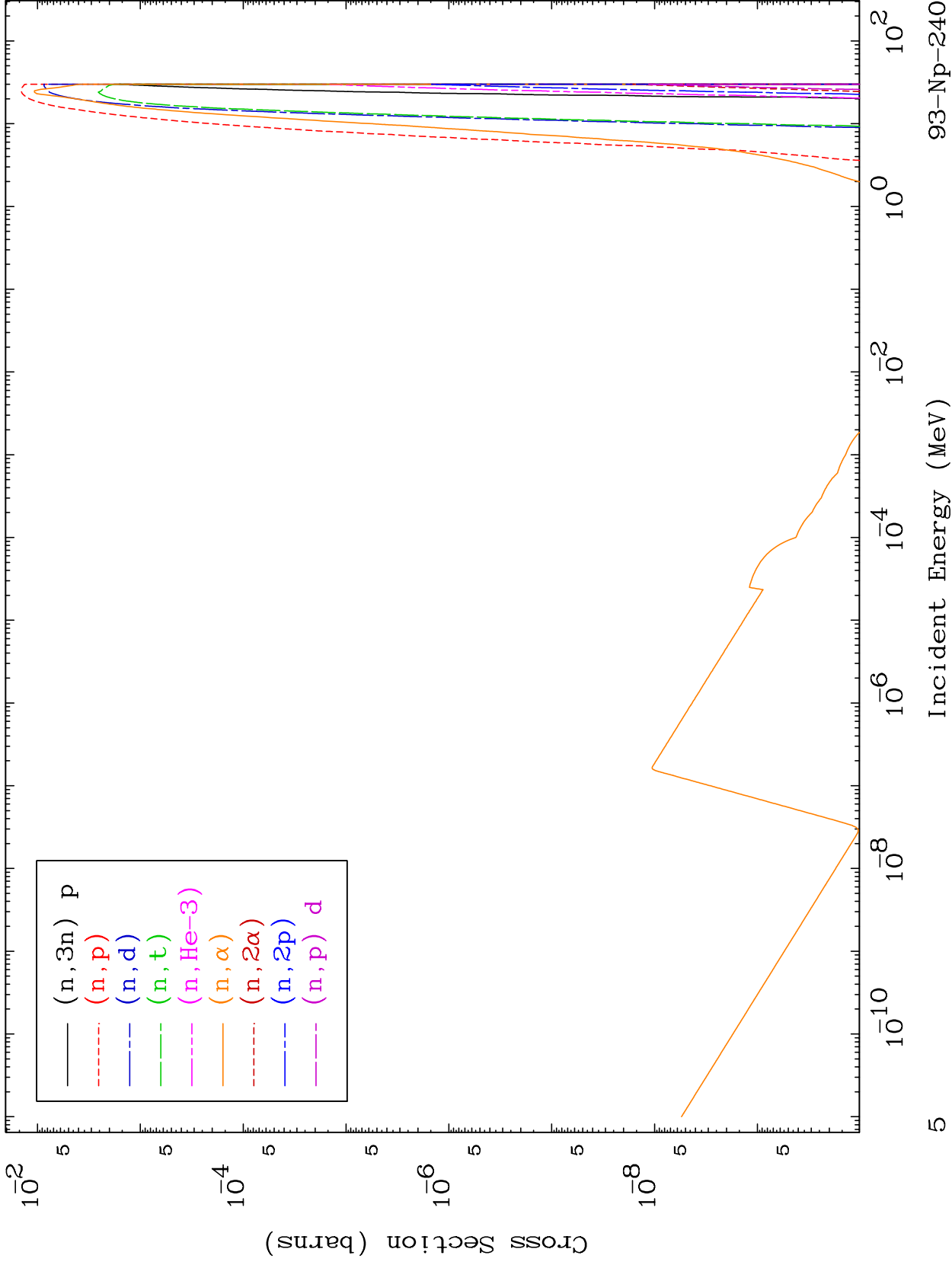
93-Np-240



MAT 9356

Charged Particle  
293 Kelvin Cross Sections

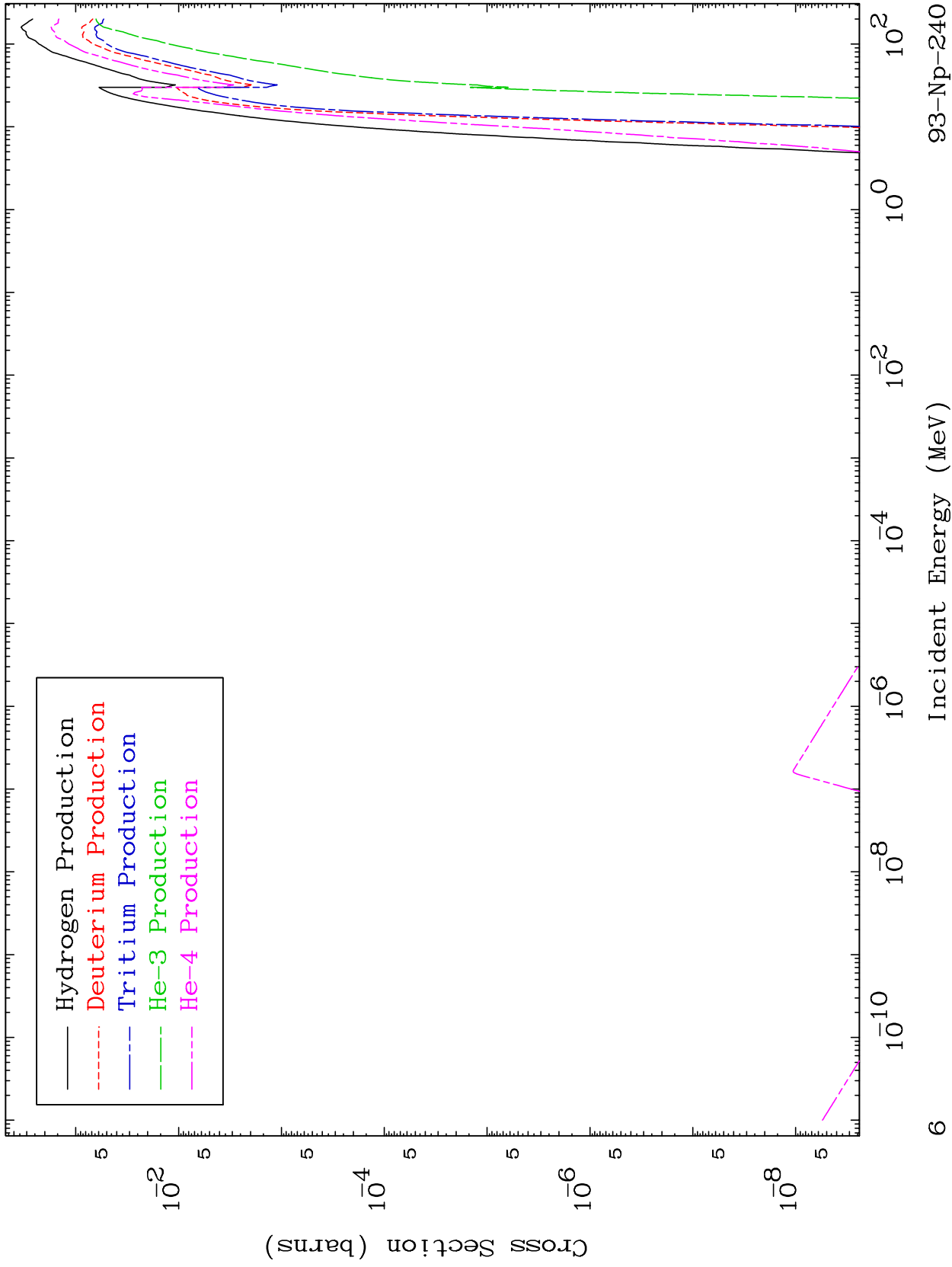
93-Np-240



MAT 9356

Particle Production  
293 Kelvin Cross Sections

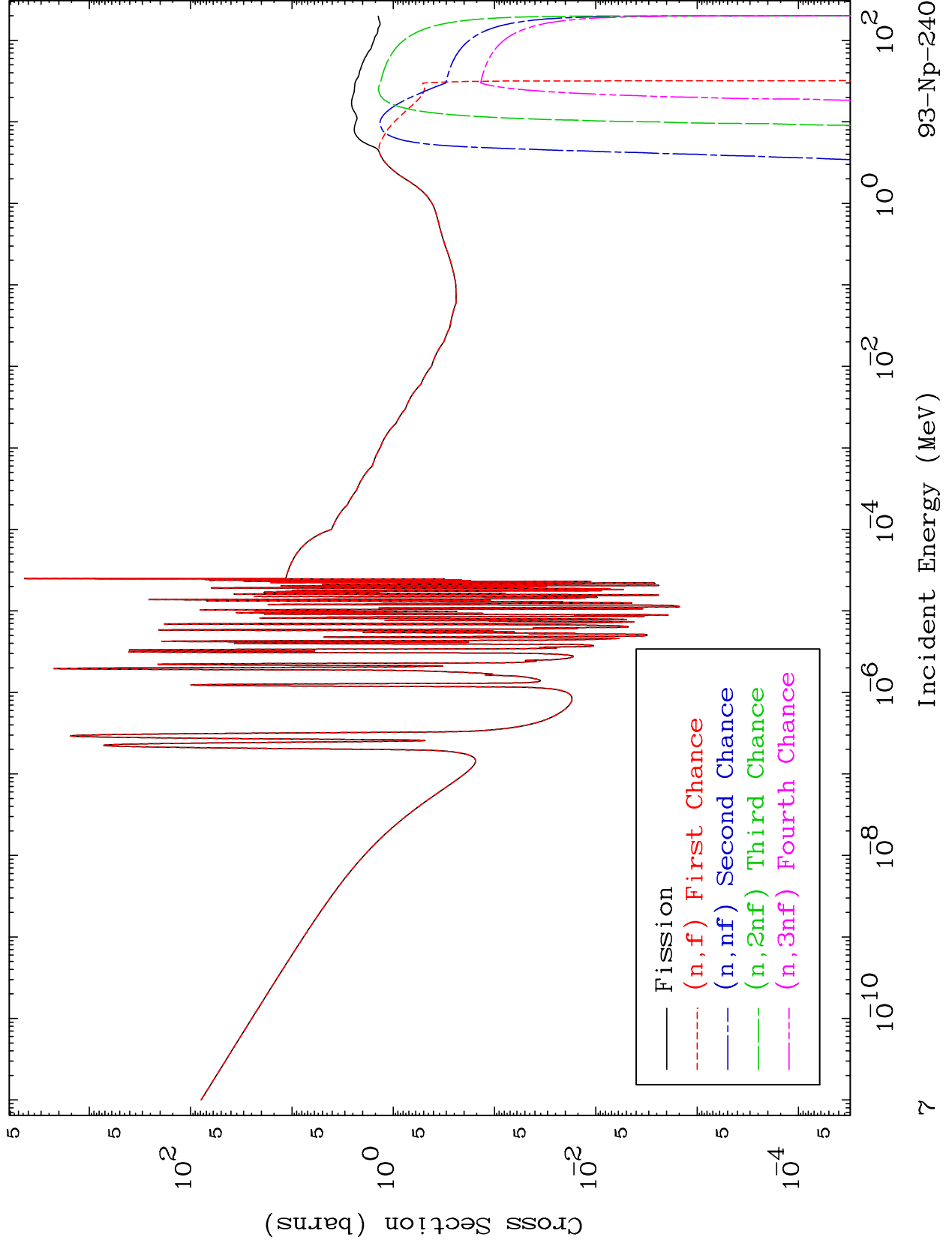
93-Np-240



MAT 9356

Fission  
293 Kelvin Cross Sections

93-Np-240

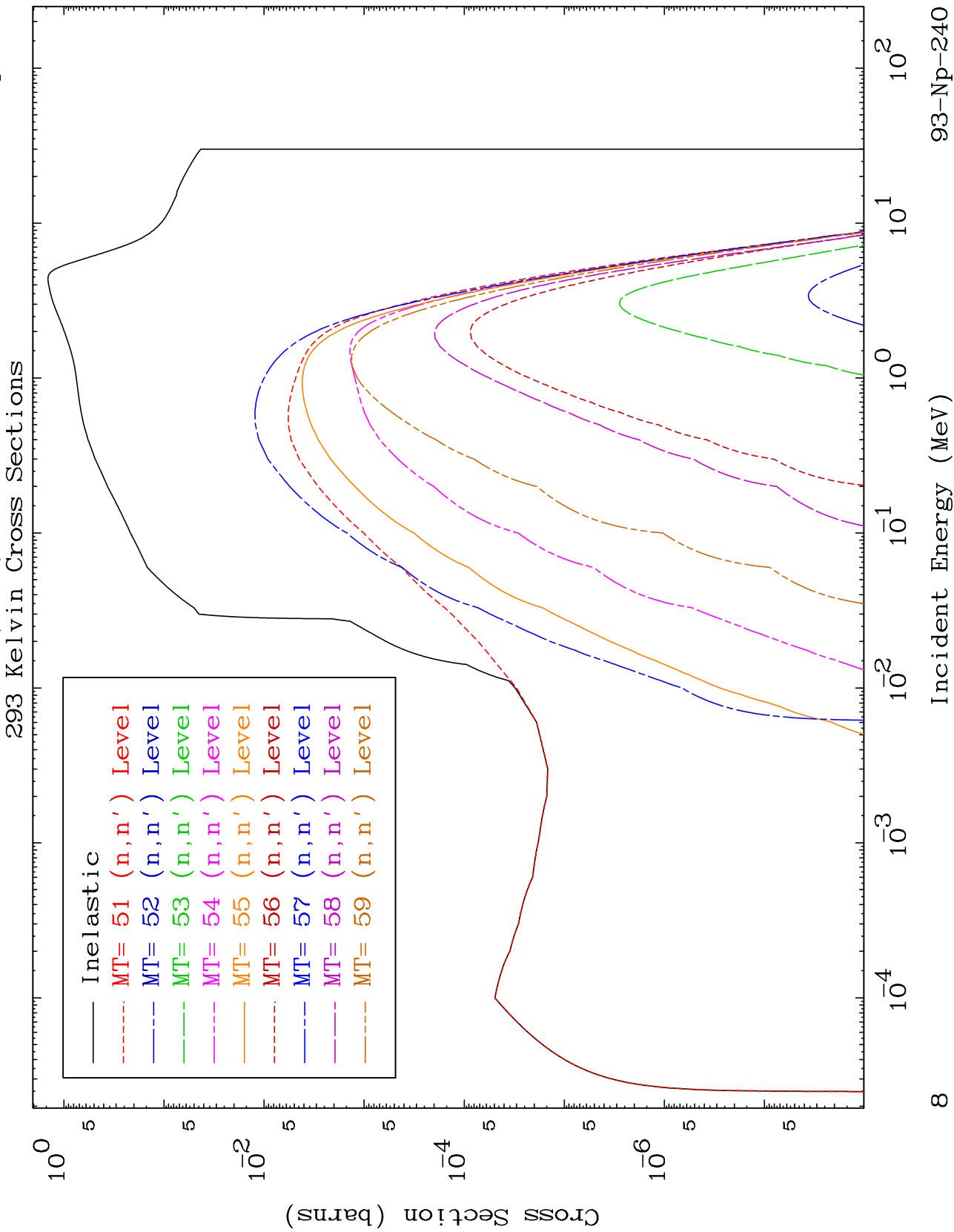




MAT 9356

(n,n') Level

93-Np-240

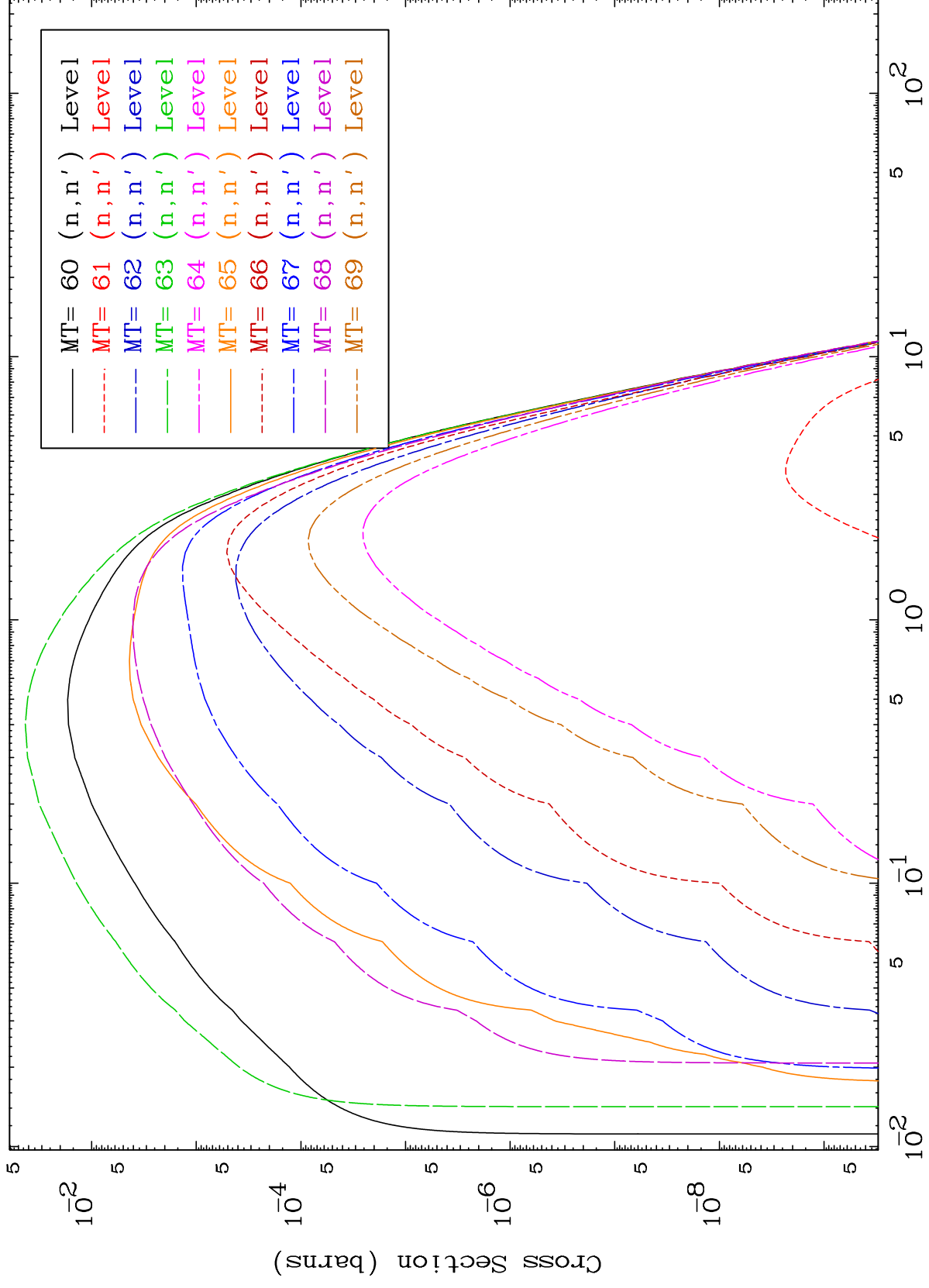


MAT 9356

(n,n') Level

93-Np-240

293 Kelvin Cross Sections



Incident Energy (MeV)

93-Np-240

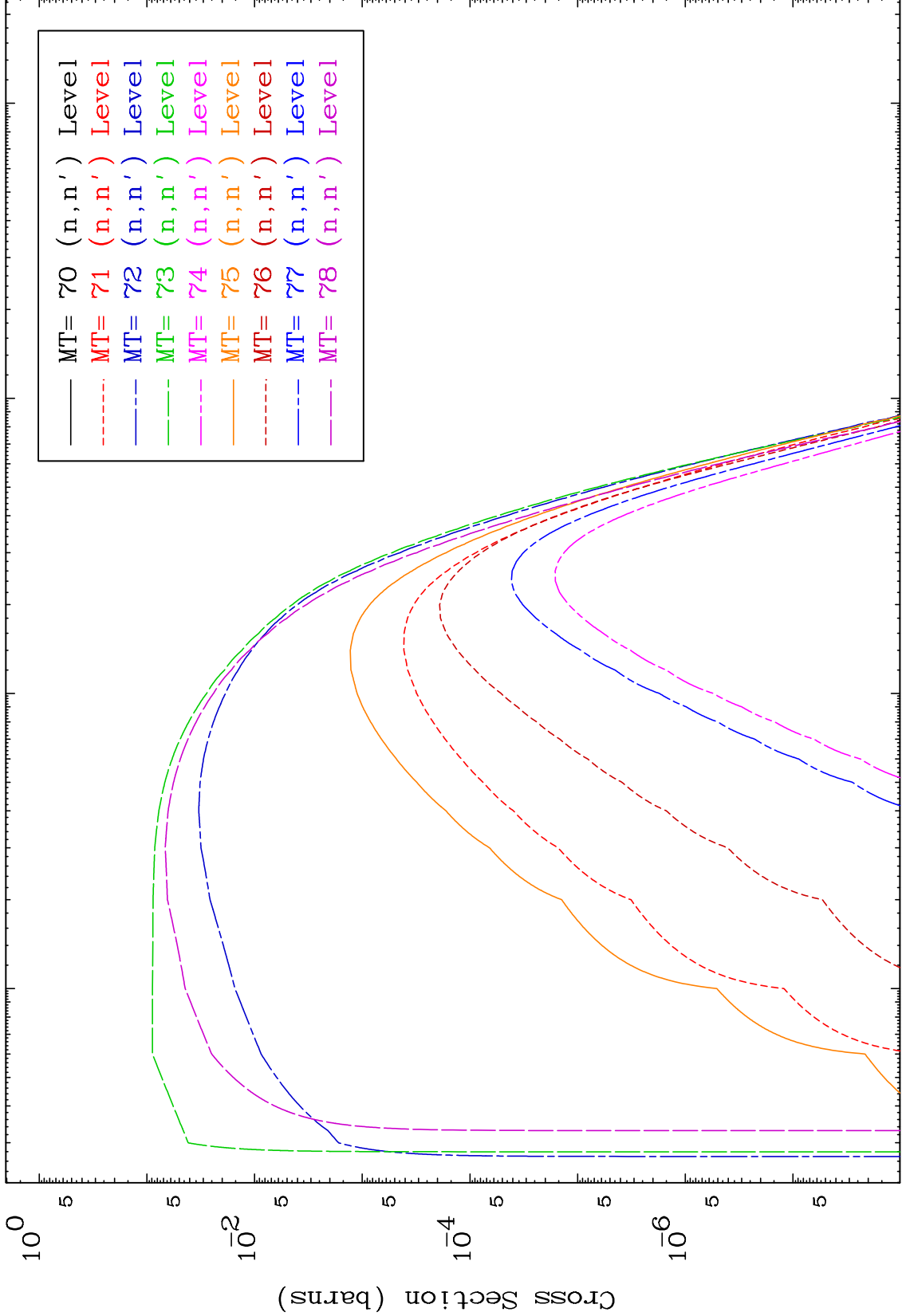
9

MAT 9356

(n,n') Level

93-Np-240

293 Kelvin Cross Sections



10

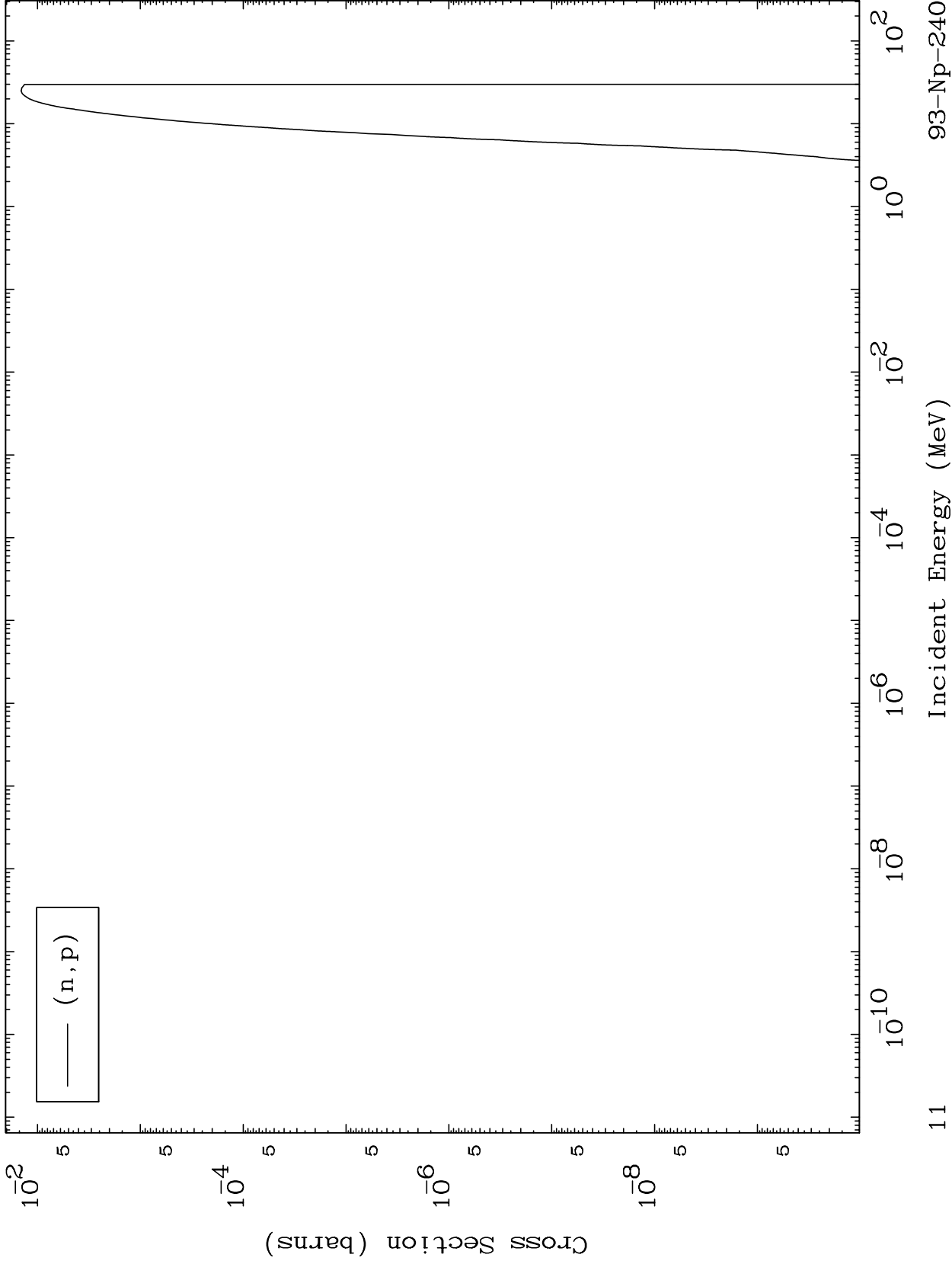
Incident Energy (MeV)

93-Np-240

MAT 9356

(n,p) Levels  
293 Kelvin Cross Sections

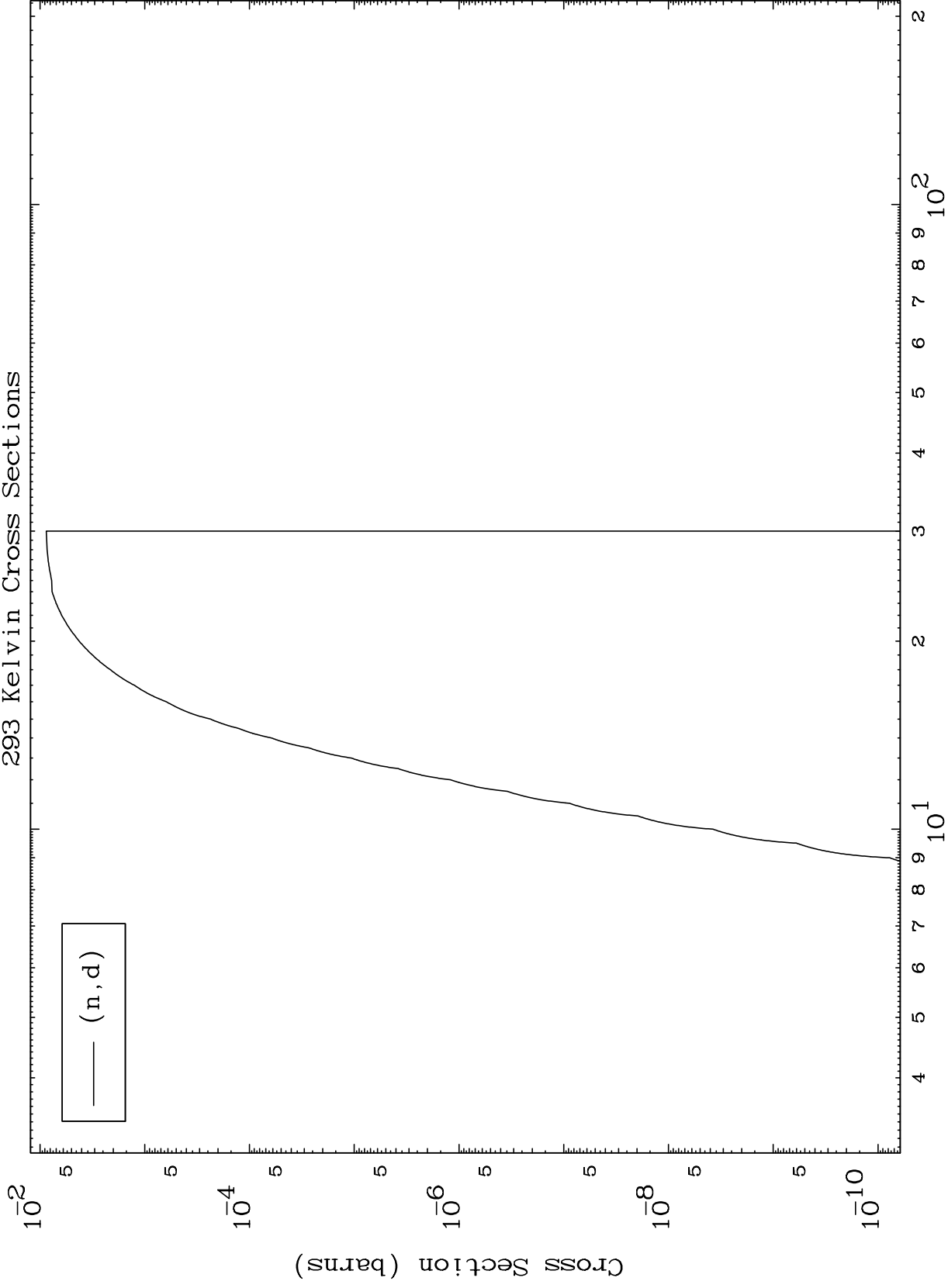
93-Np-240



MAT 9356

(n,d) Levels  
293 Kelvin Cross Sections

93-Np-240



12

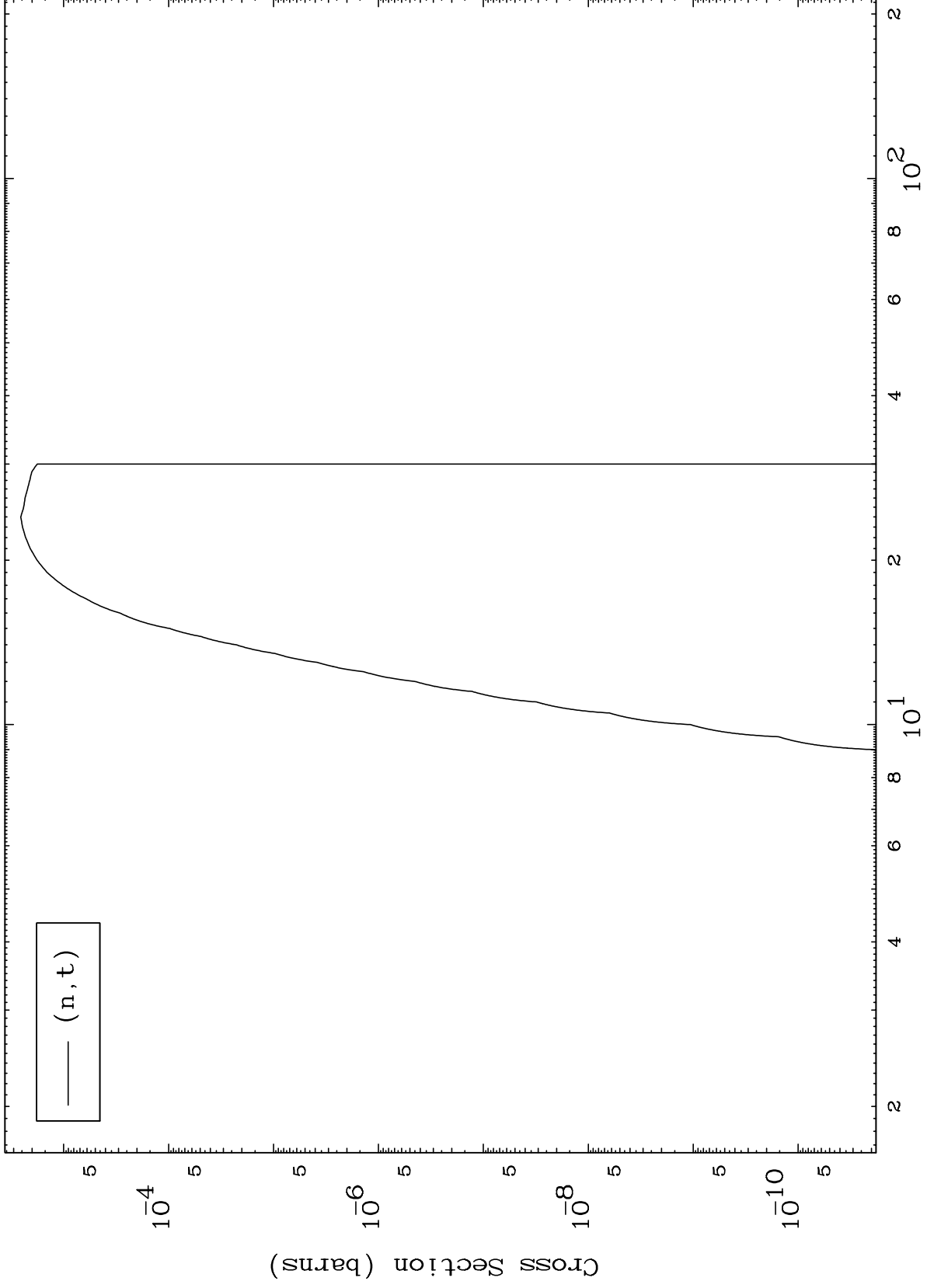
Incident Energy (MeV)

93-Np-240

MAT 9356

(n,t) Levels  
293 Kelvin Cross Sections

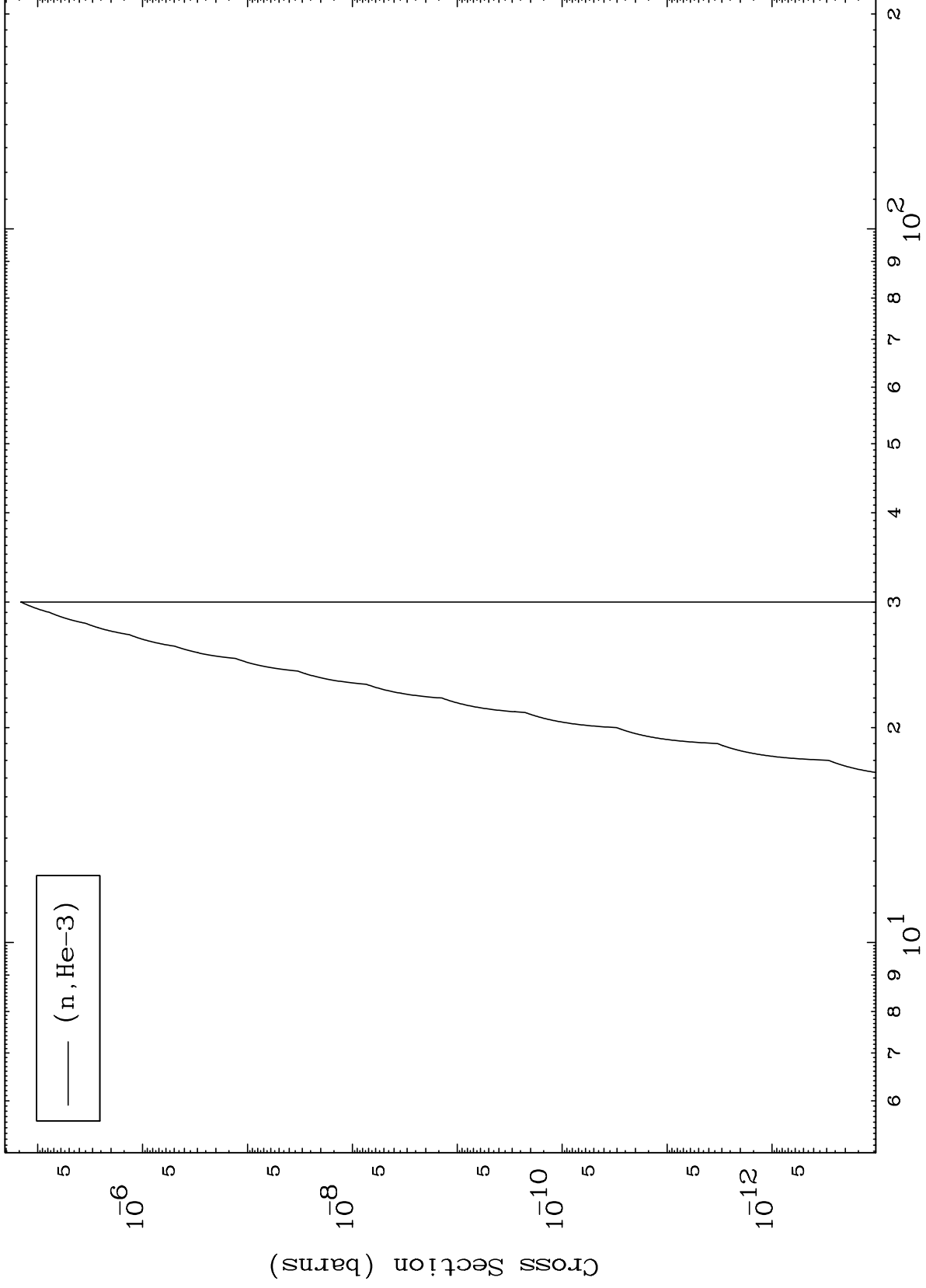
93-Np-240



MAT 9356

(n,He3) Levels  
293 Kelvin Cross Sections

93-Np-240



14

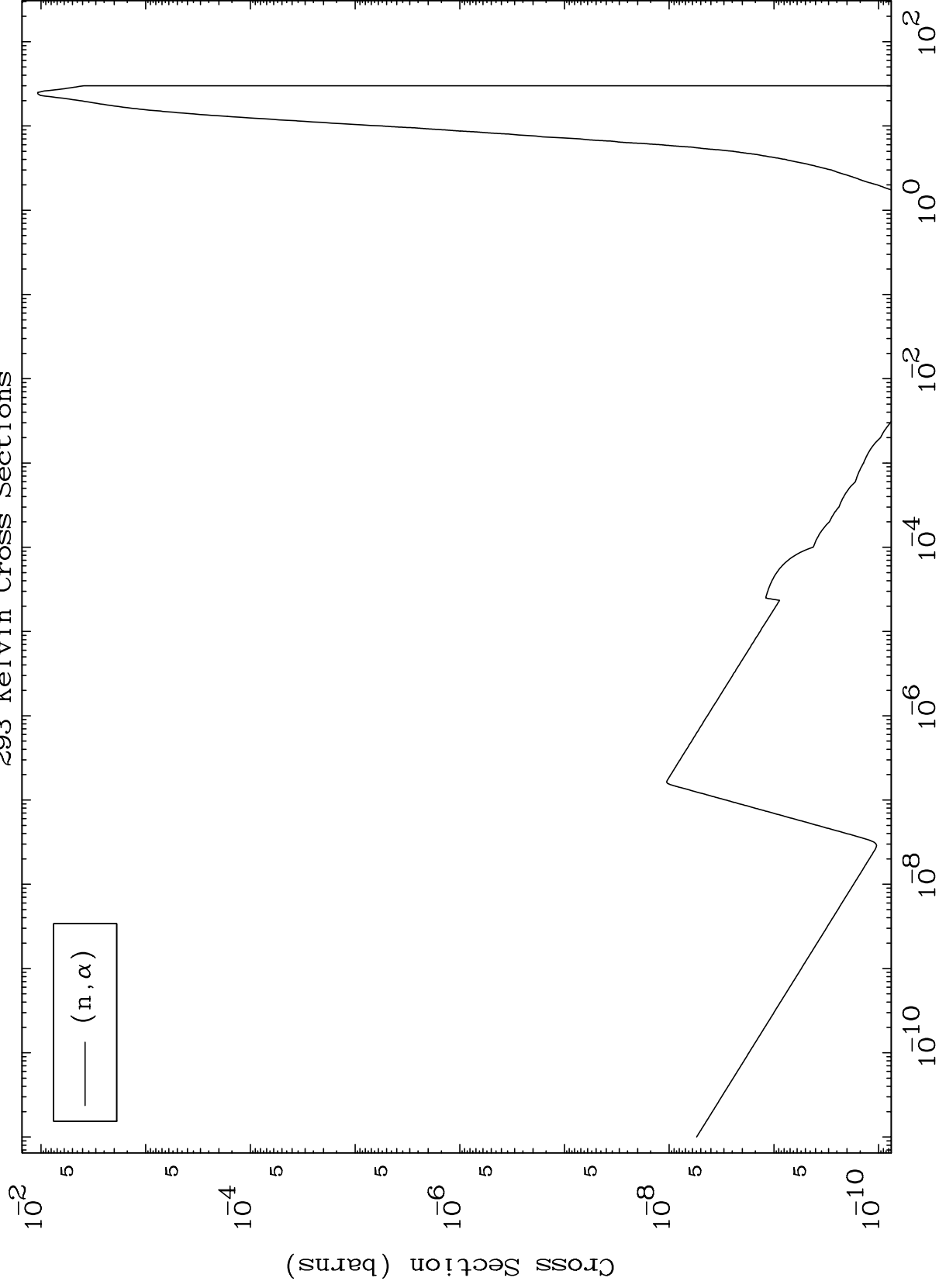
Incident Energy (MeV)

93-Np-240

MAT 9356

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

93-Np-240

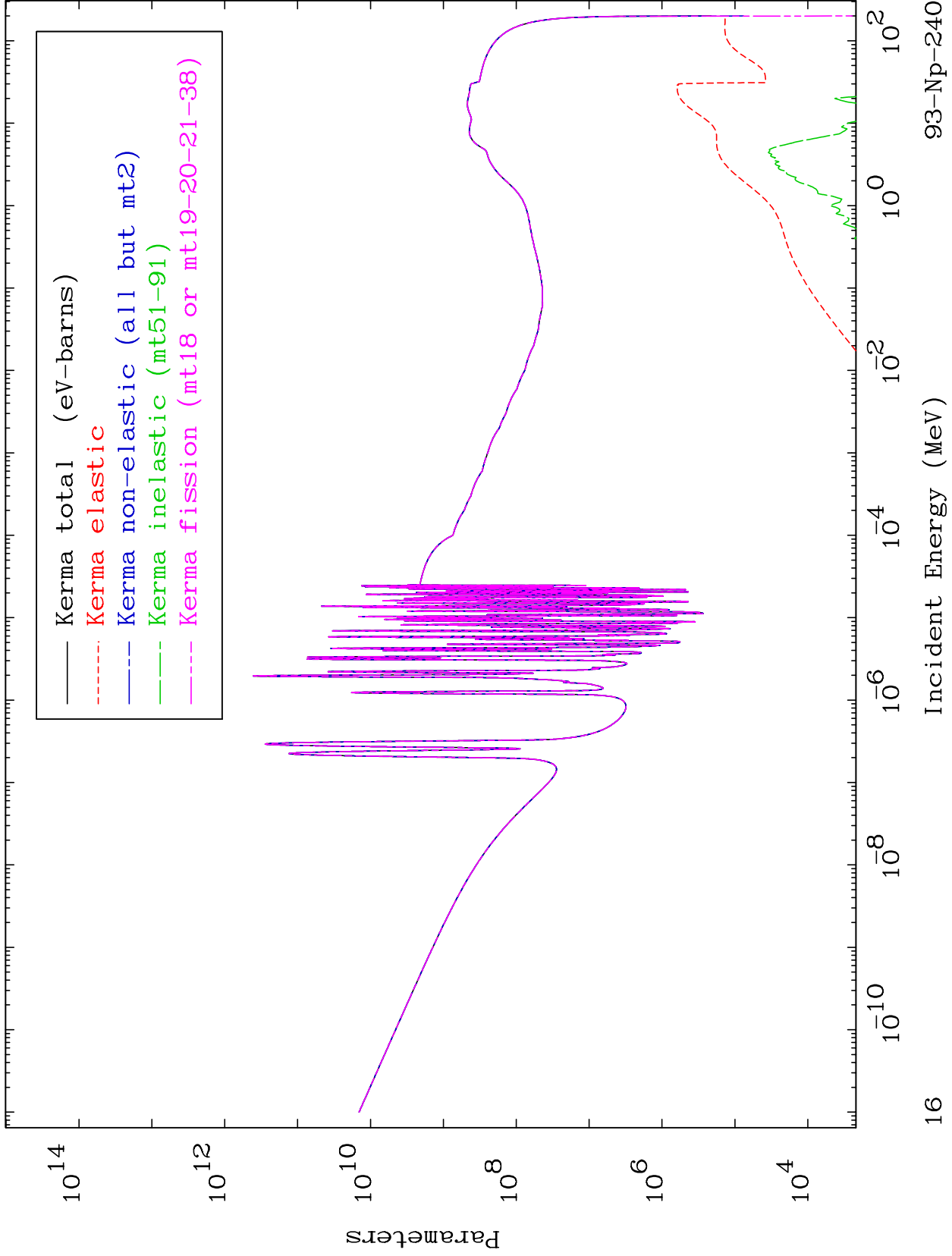


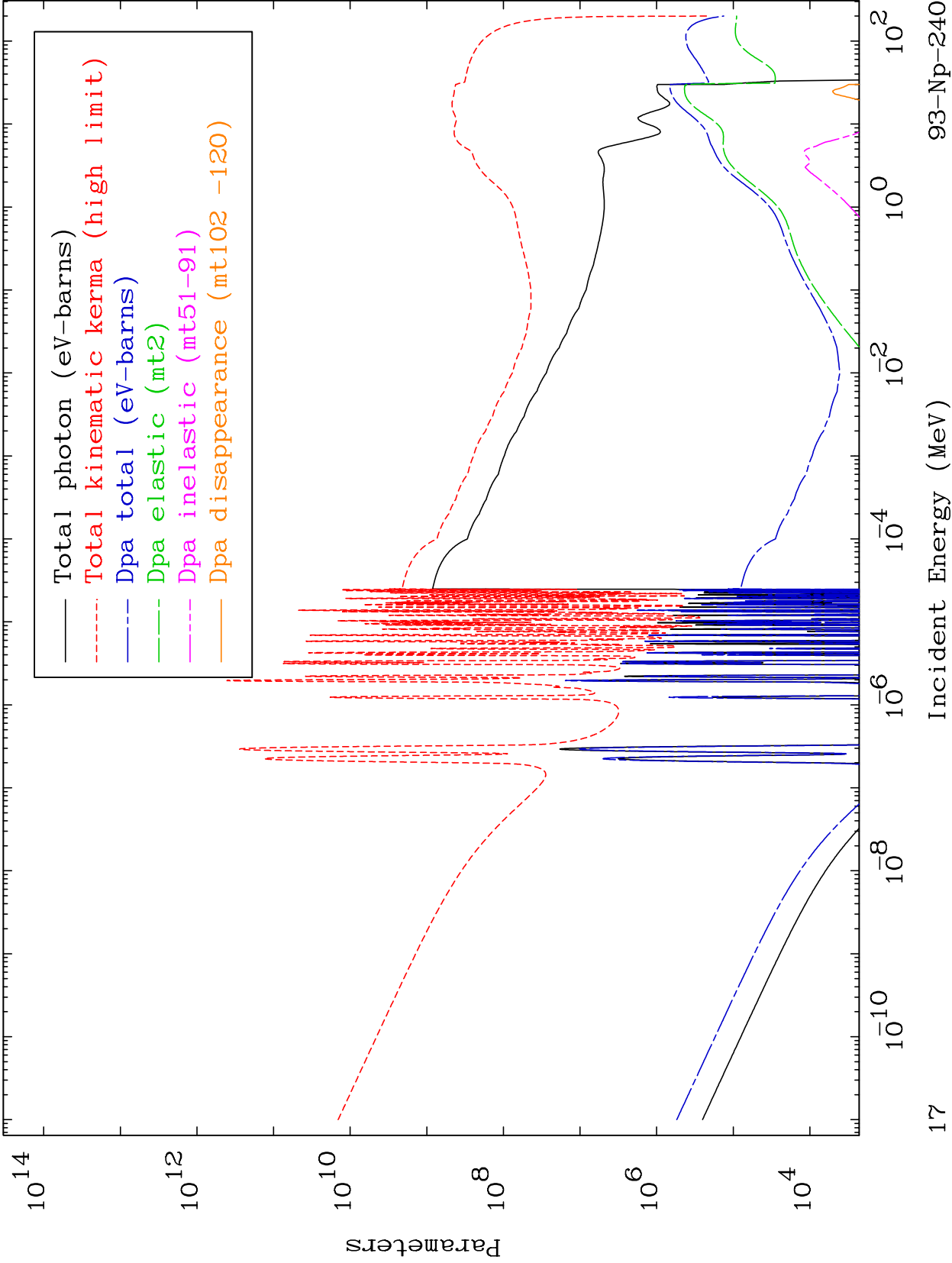
15

Incident Energy (MeV)

93-Np-240





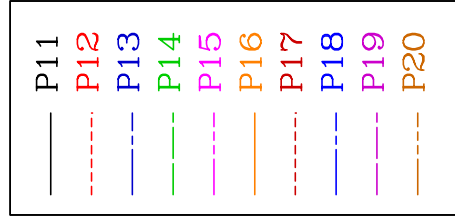




MAT 9356

Elastic  
Legendre Coefficients

93-Np-240



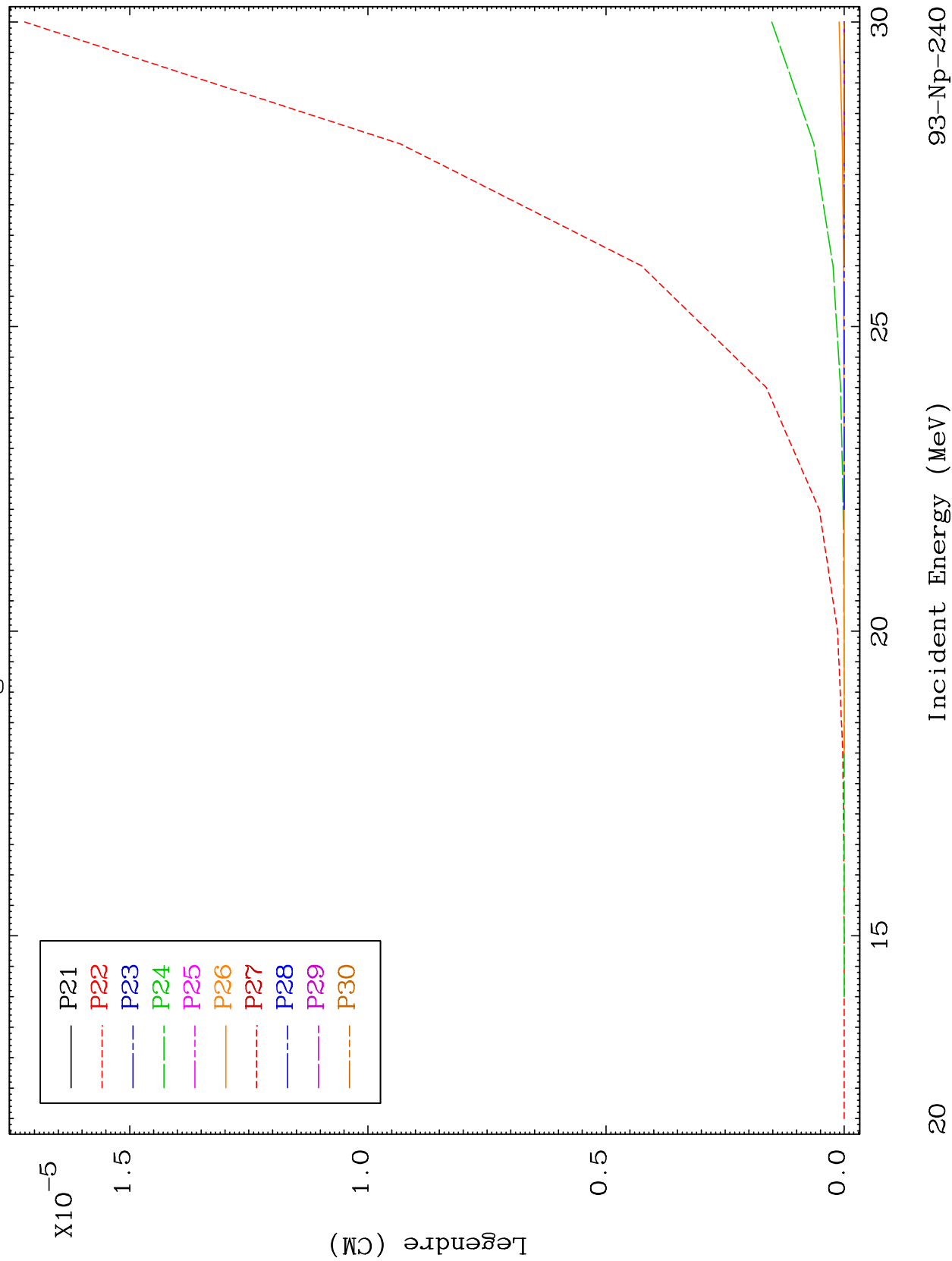
$\times 10^{-3.5}$   
Legendre (CM)  
0.0  
0.5  
1.0  
1.5  
2.0  
2.5

5 10 15 20 25 30  
Incident Energy (MeV)  
93-Np-240

MAT 9356

Elastic  
Legendre Coefficients

93-Np-240



20

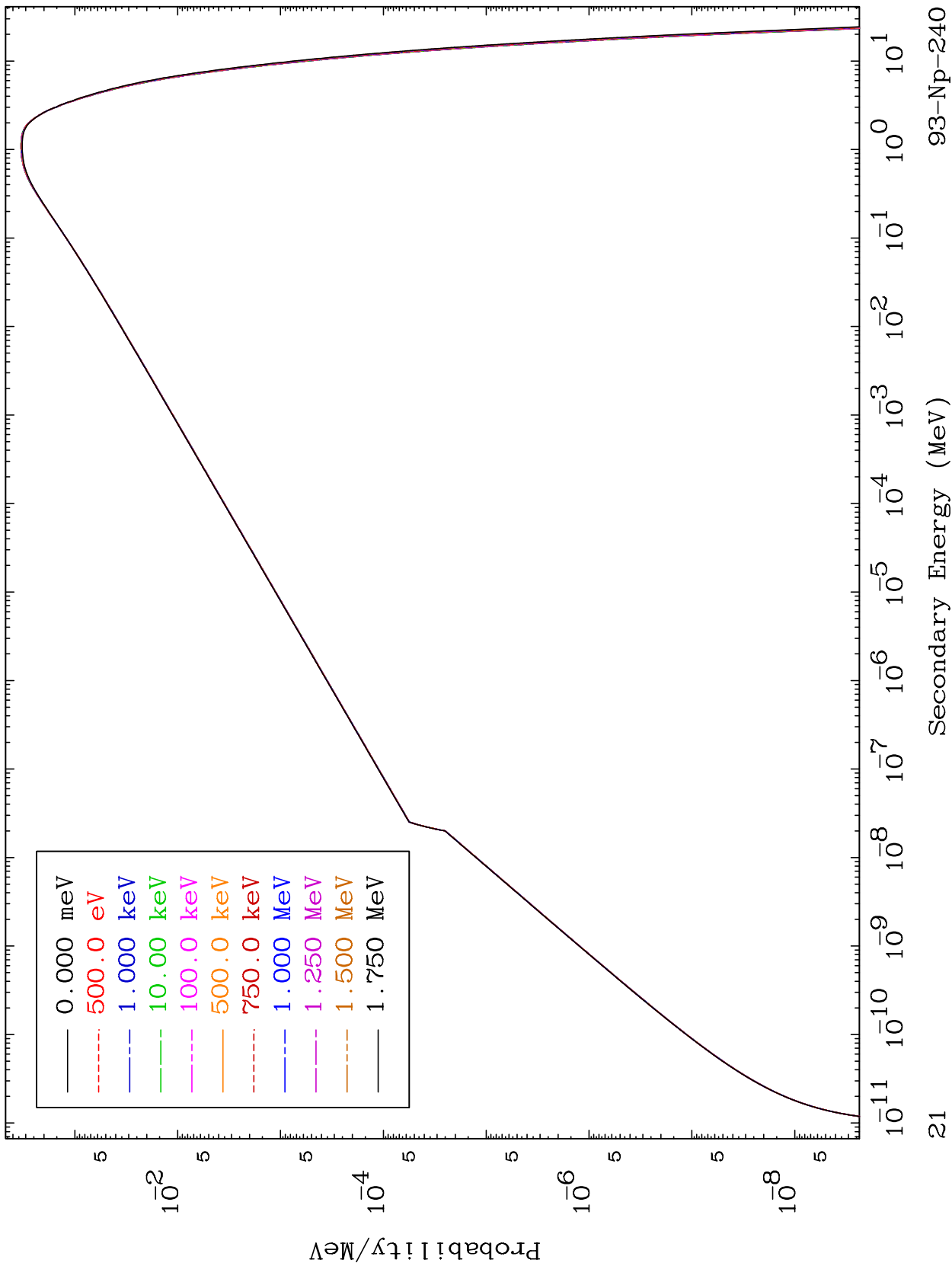
Incident Energy (MeV)

93-Np-240

MAT 9356

### Fission Energy Distribution

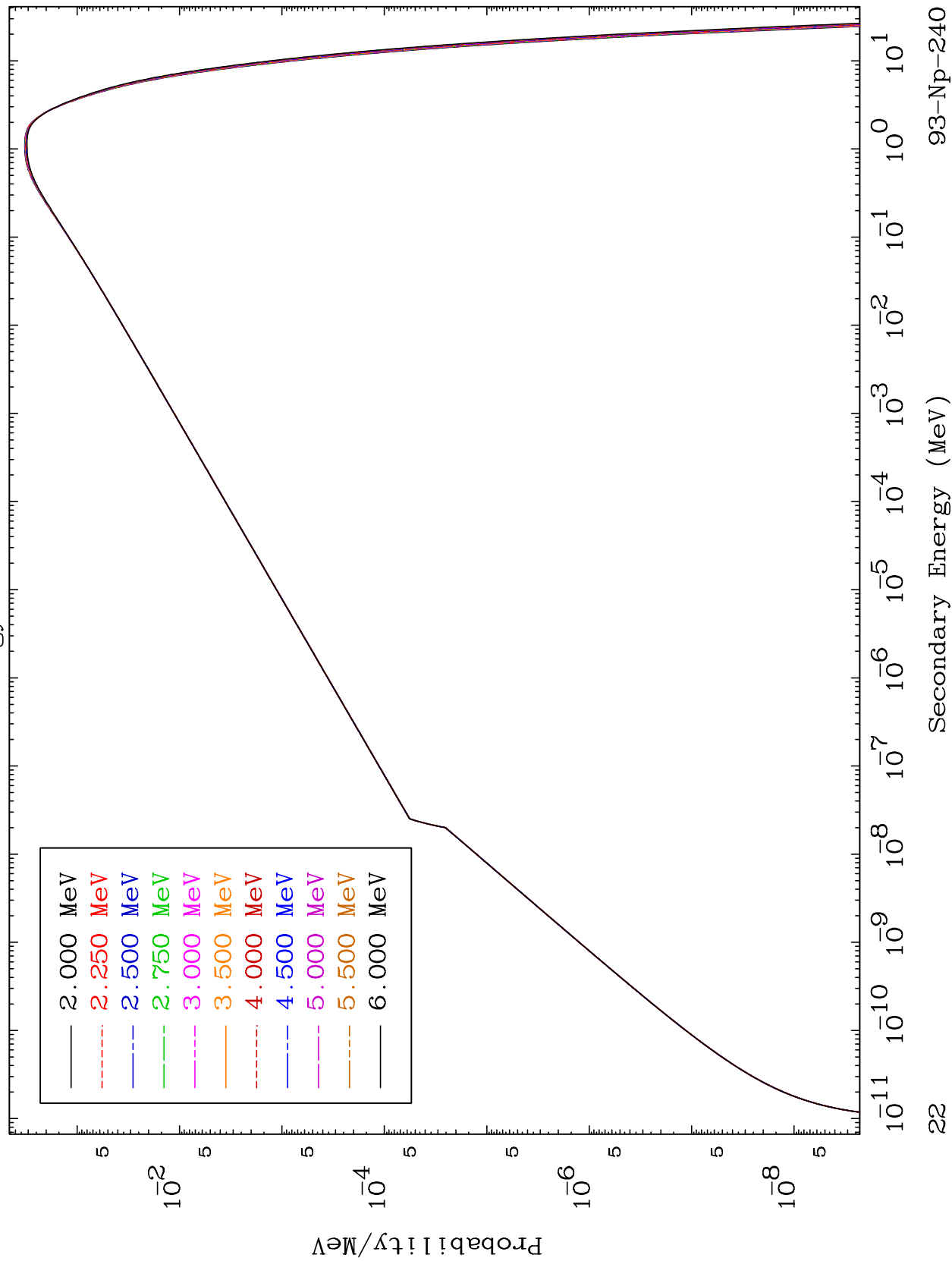
93-Np-240



MAT 9356

Fission  
Energy Distribution

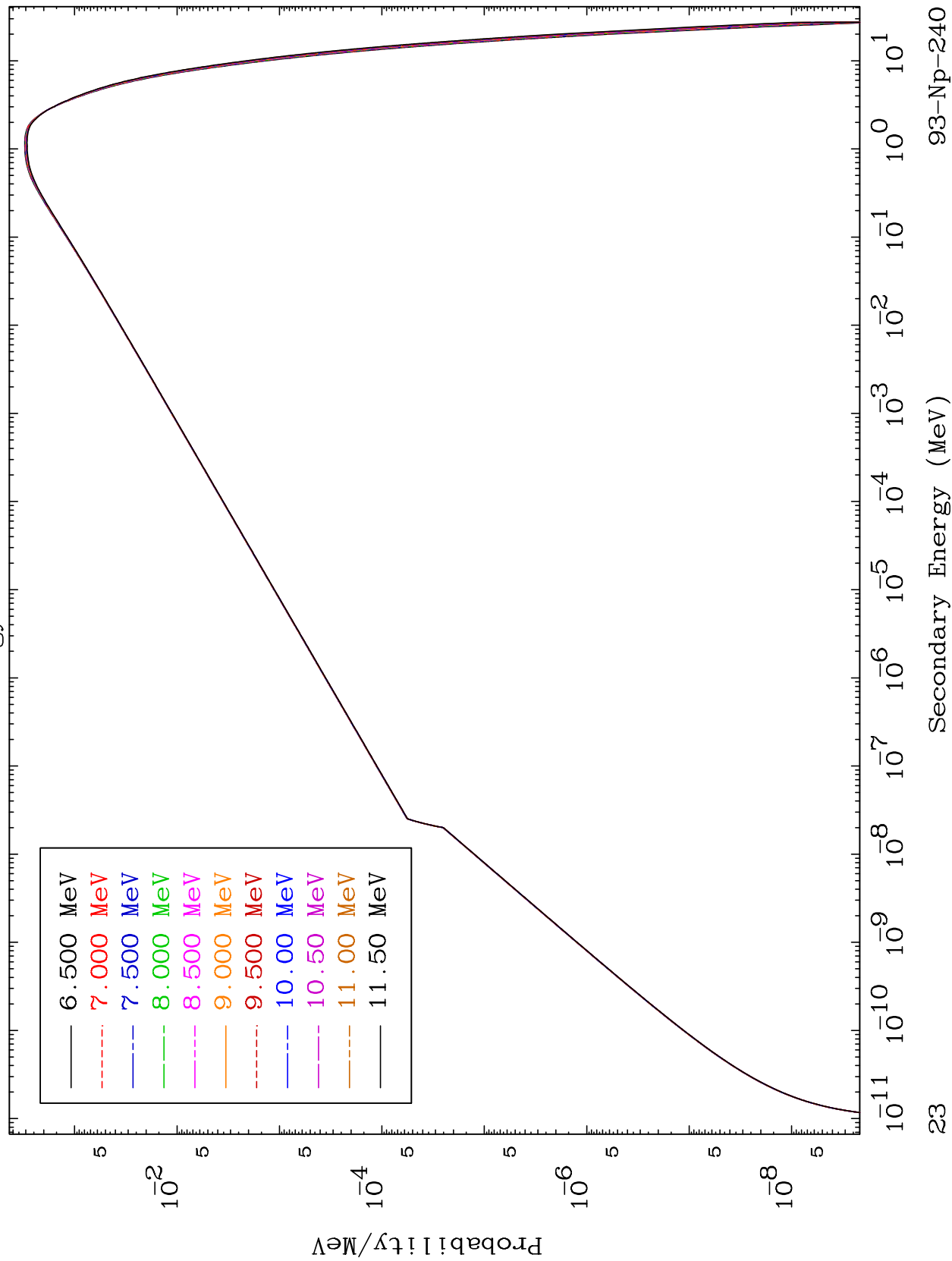
93-Np-240



MAT 9356

### Fission Energy Distribution

93-Np-240



93-Np-240

Secondary Energy (MeV)

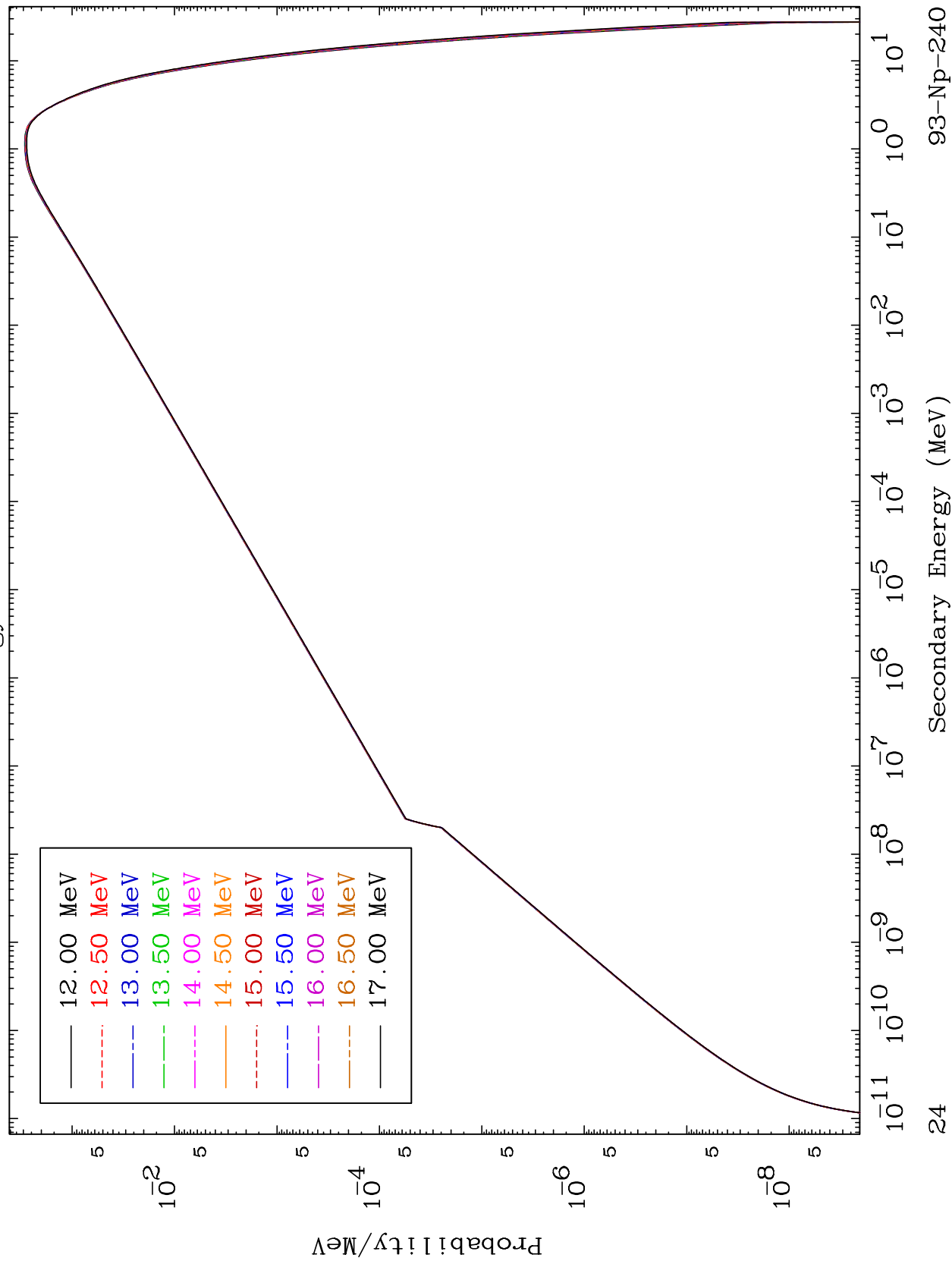
23



MAT 9356

### Fission Energy Distribution

93-Np-240

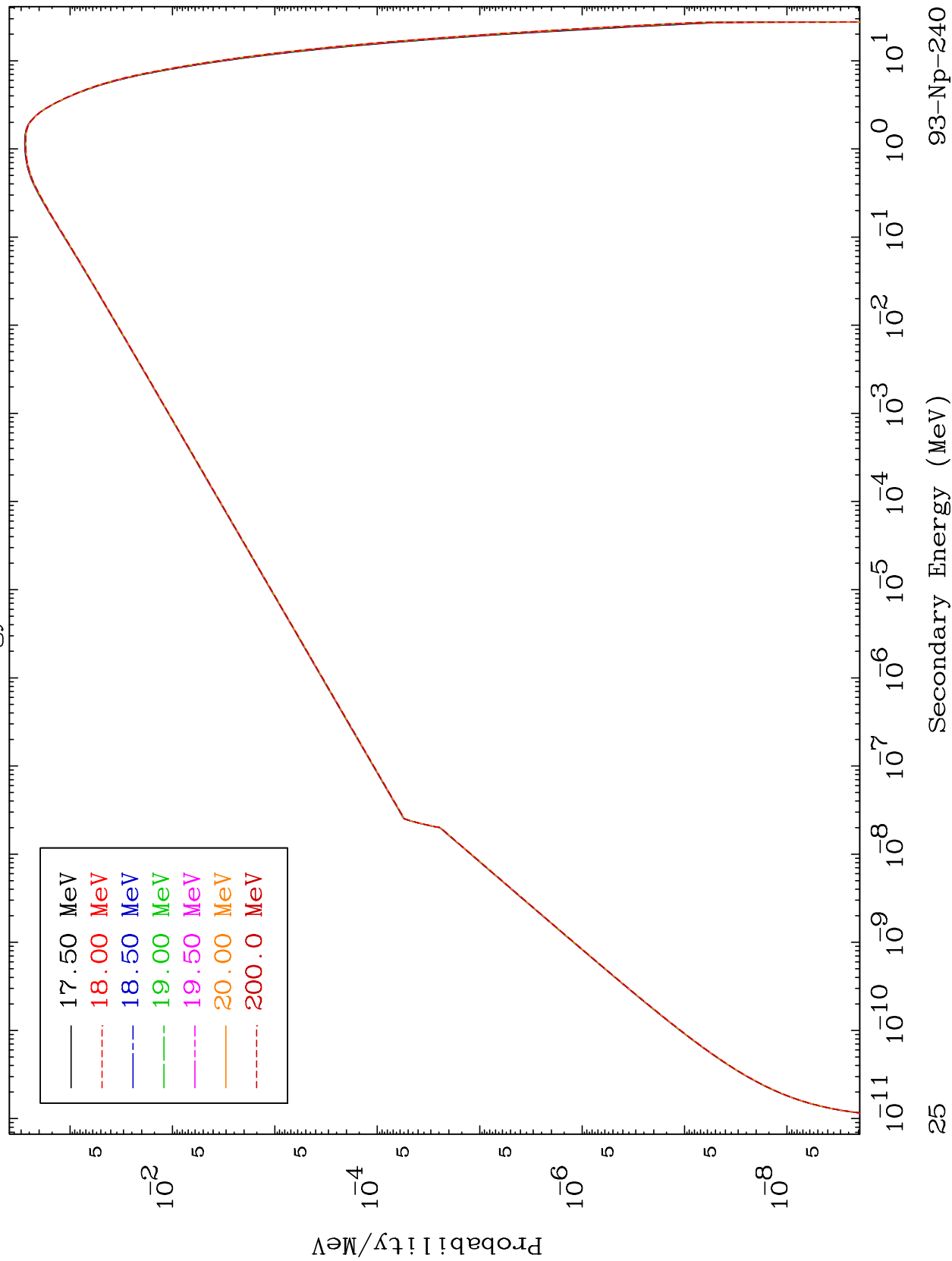


24

MAT 9356

Fission Energy Distribution

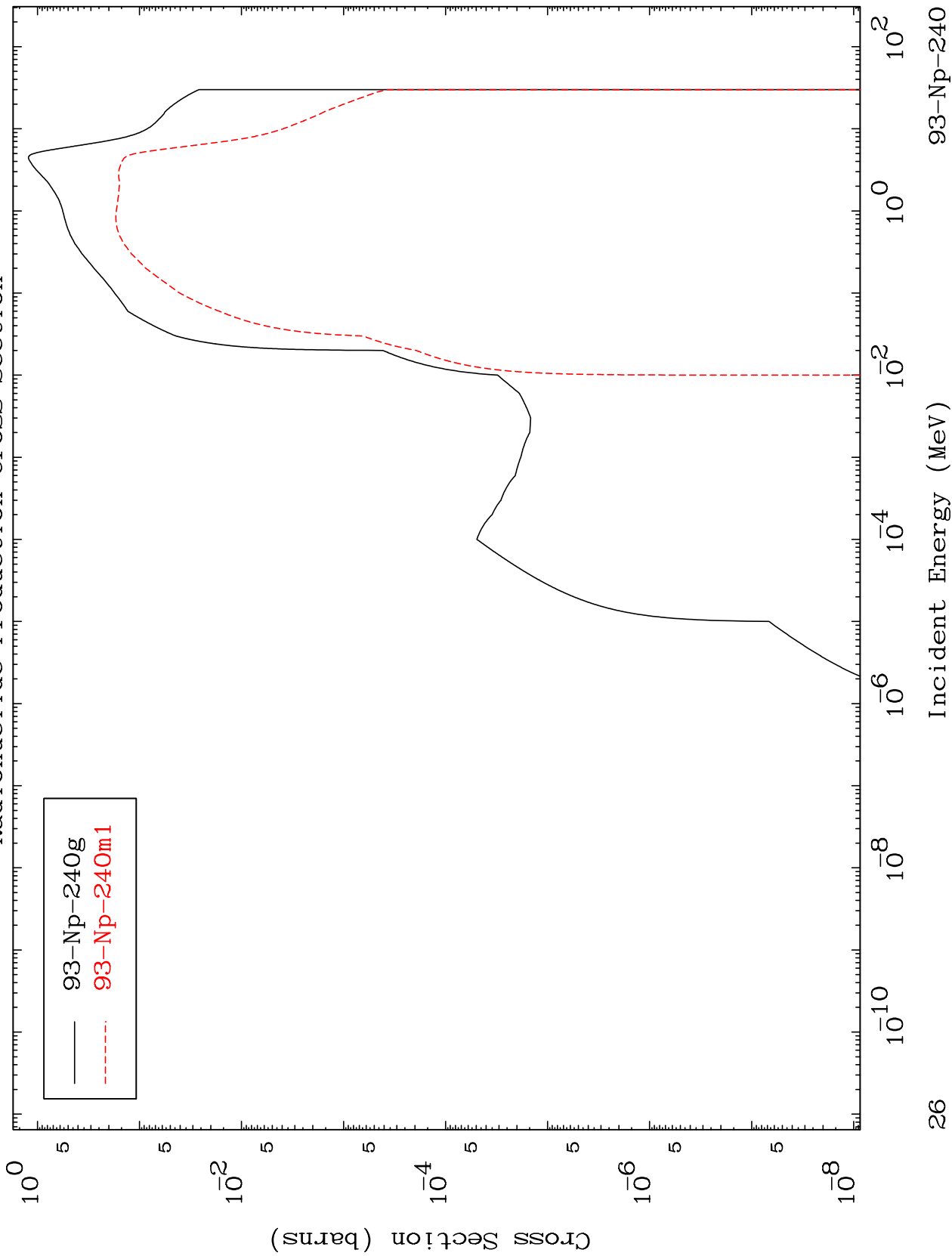
93-Np-240



MAT 9356

Inelastic  
Radionuclide Production Cross Section

<sup>93</sup>Np-240



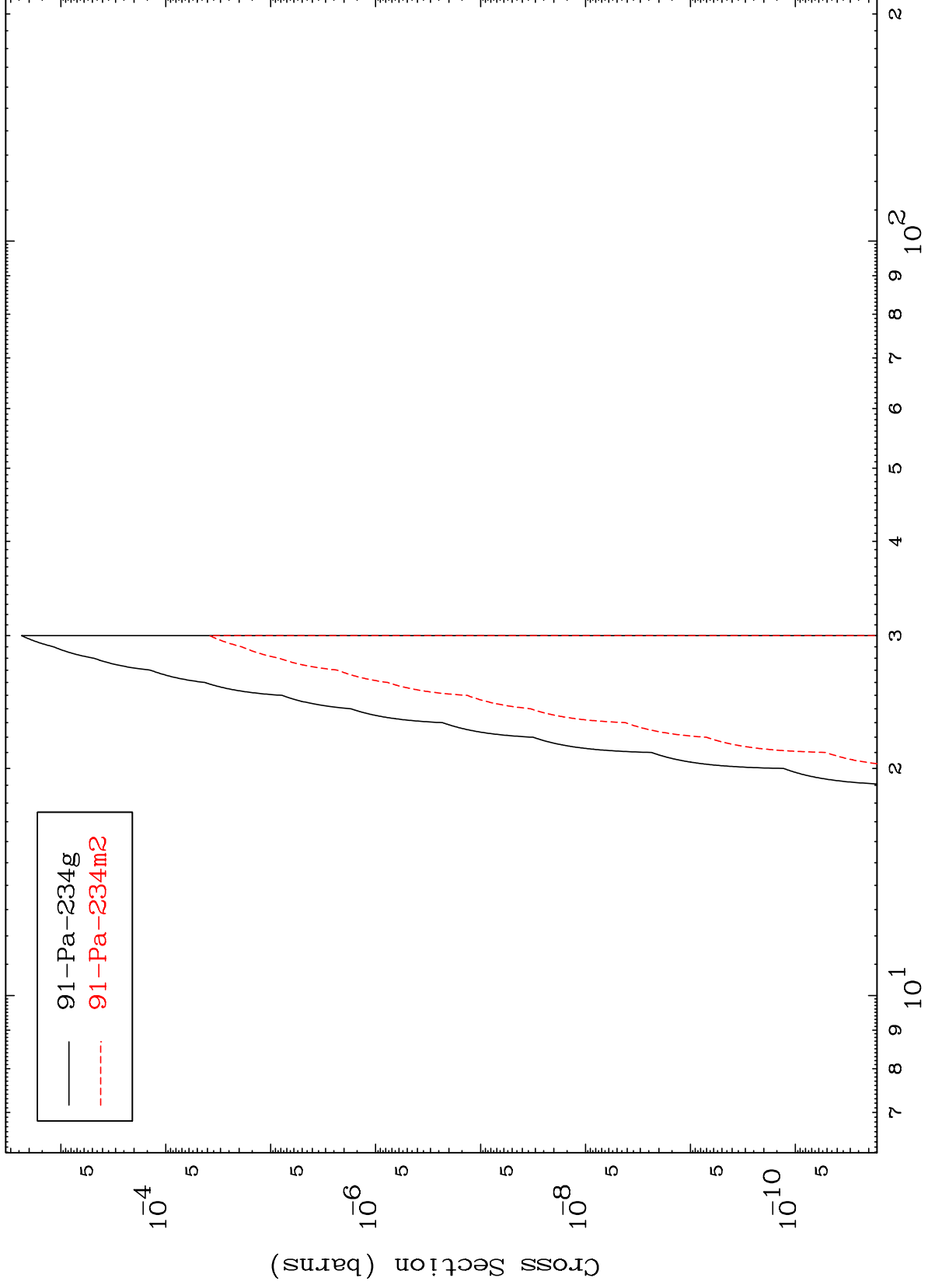
— 93-Np-240g  
- - - 93-Np-240m1

MAT 9356

(n,3n)  $\alpha$

93-Np-240

Radionuclide Production Cross Section



27

Incident Energy (MeV)

93-Np-240