

Program EVALPLOT  
(Version 2021-1)

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)

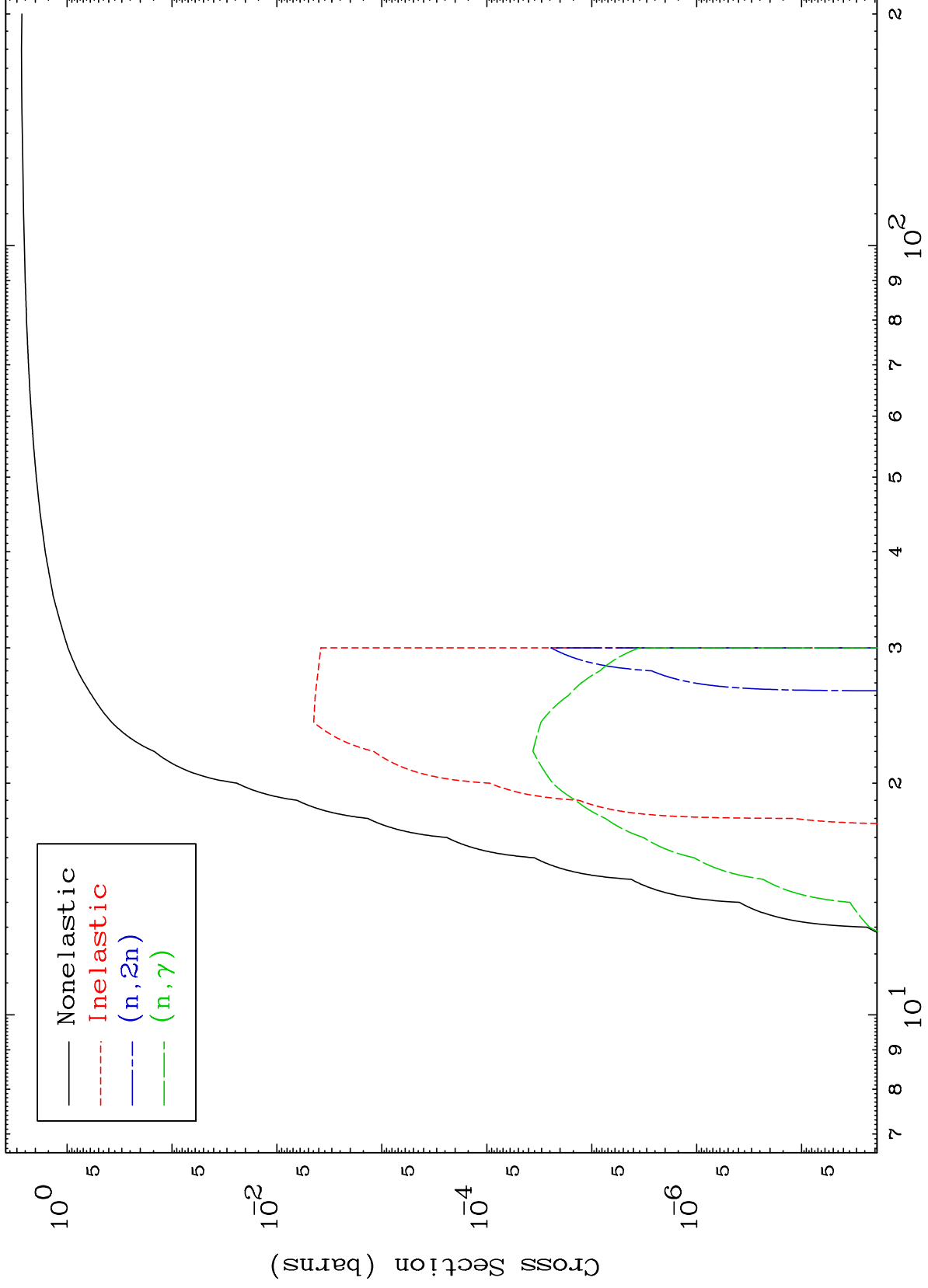
Press Mouse Button to Start

MAT 8278

0 Kelvin Cross Sections

$\alpha$  Major

83-Bi-193m



1

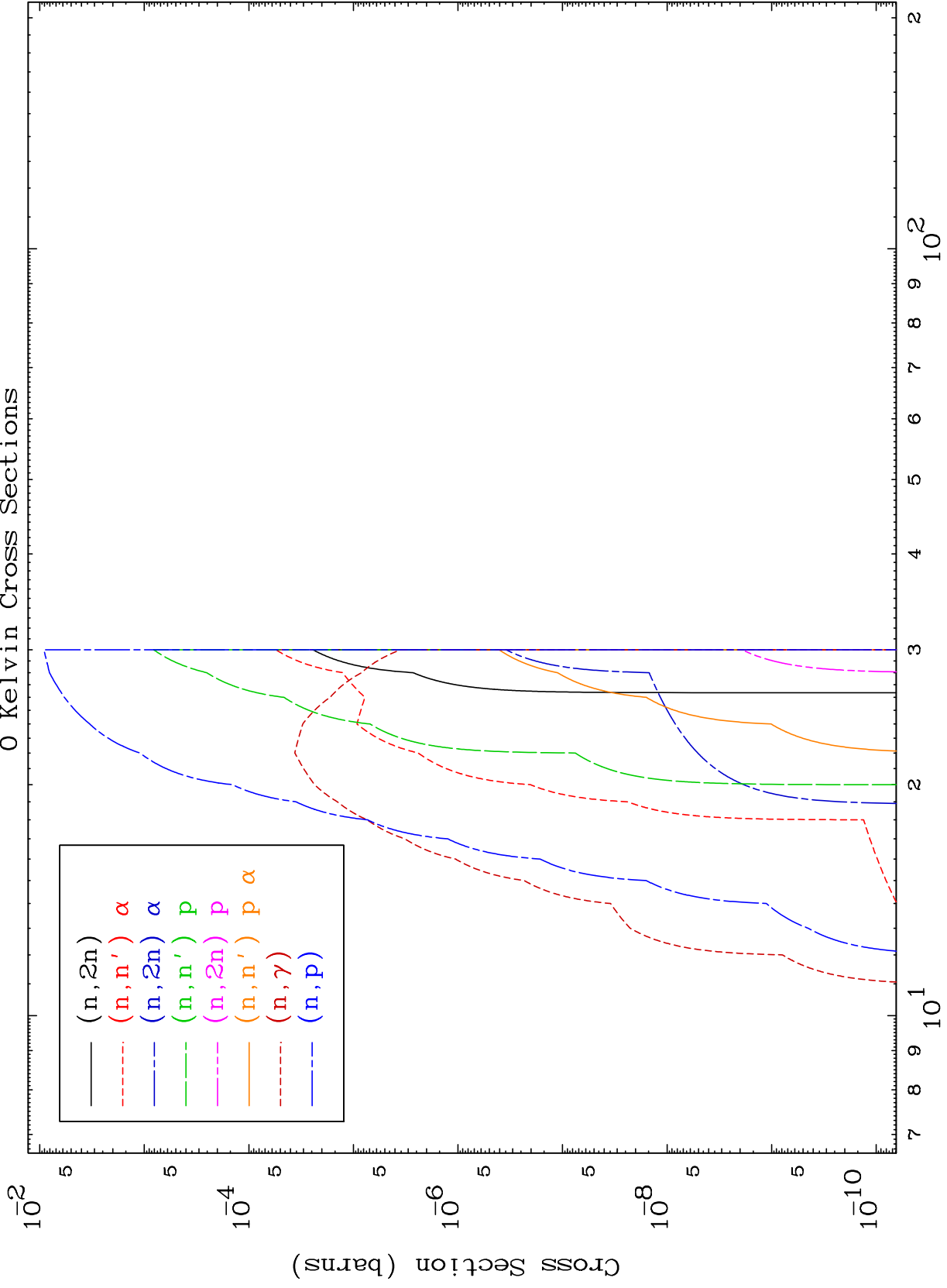
Incident Energy (MeV)

83-Bi-193m

MAT 8278

$\alpha$  Neutron Absorption  
0 Kelvin Cross Sections

83-Bi-193m



2

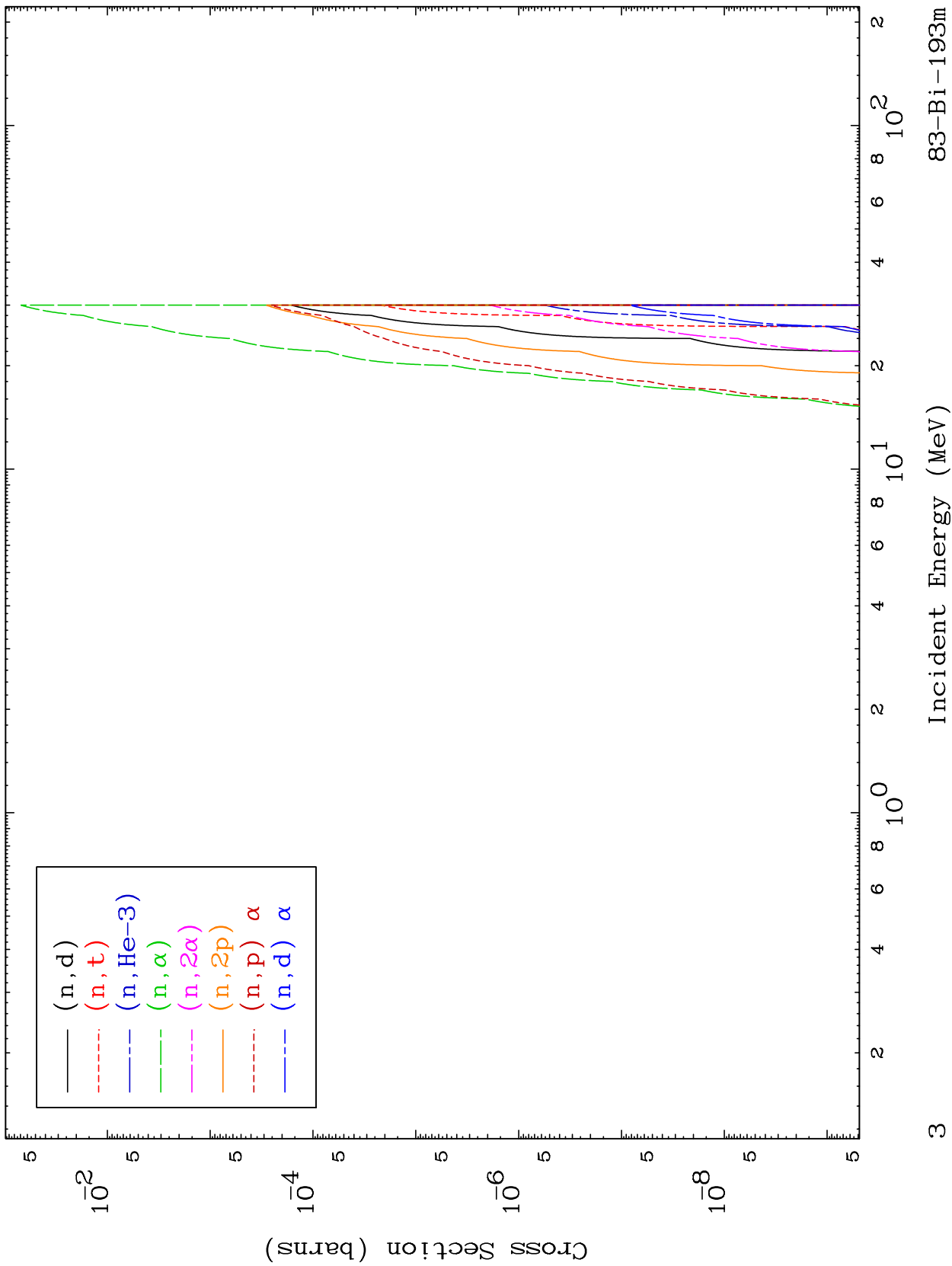
Incident Energy (MeV)

83-Bi-193m

MAT 8278

$\alpha$  Neutron Absorption  
0 Kelvin Cross Sections

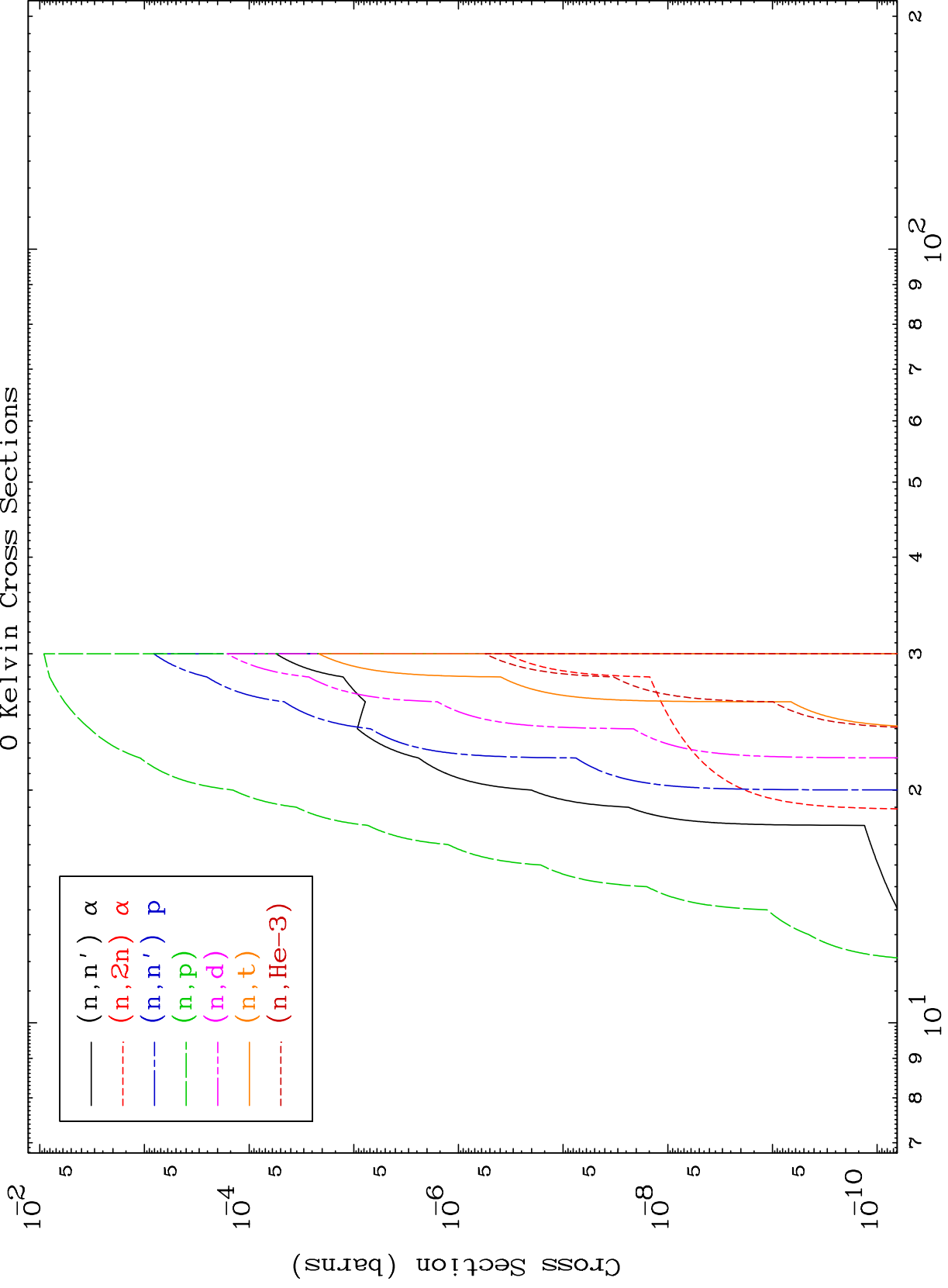
83-Bi-193m



MAT 8278

$\alpha$  Charged Particle  
0 Kelvin Cross Sections

83-Bi-193m



4

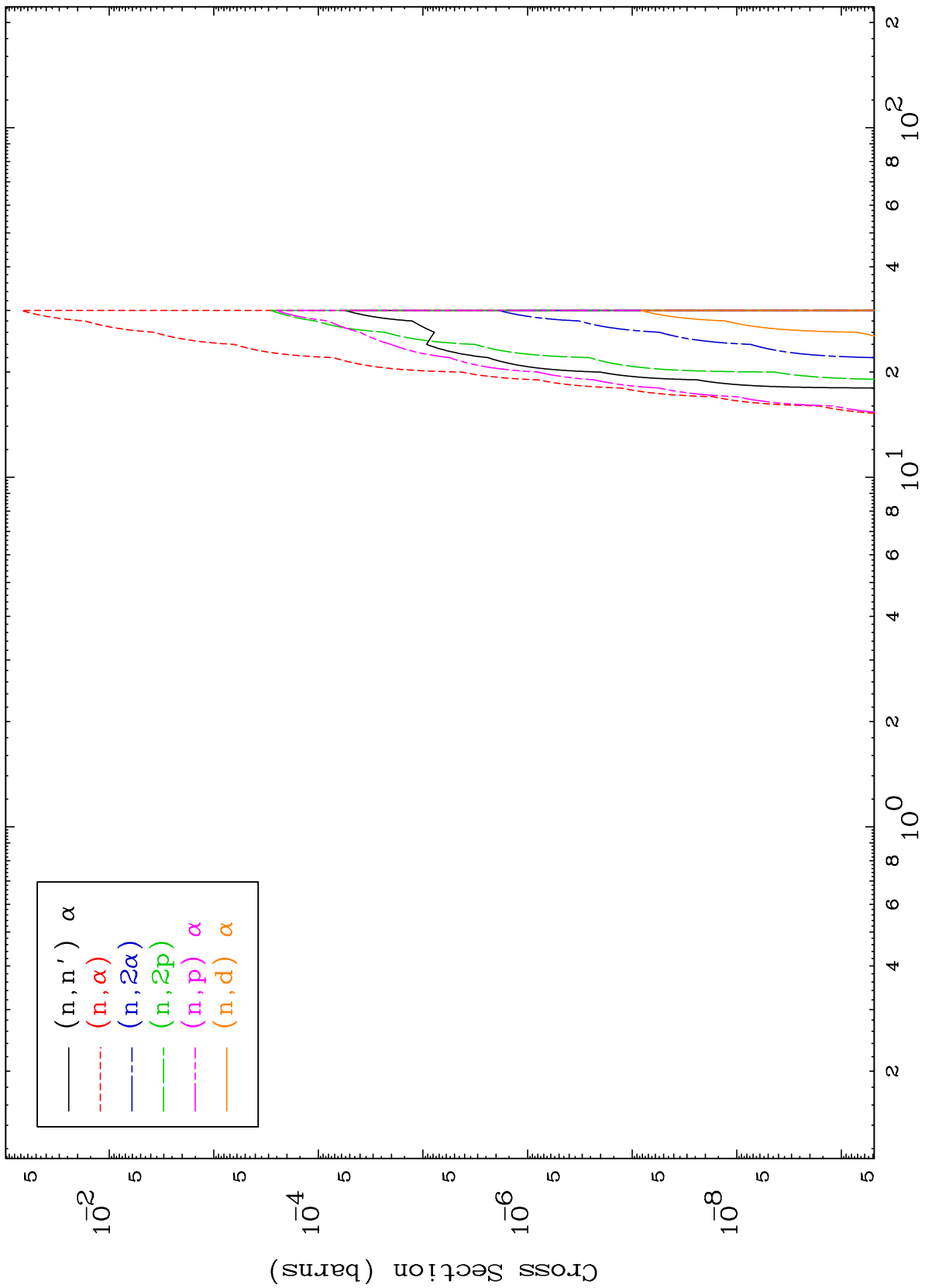
Incident Energy (MeV)

83-Bi-193m

MAT 8278

$\alpha$  Charged Particle  
0 Kelvin Cross Sections

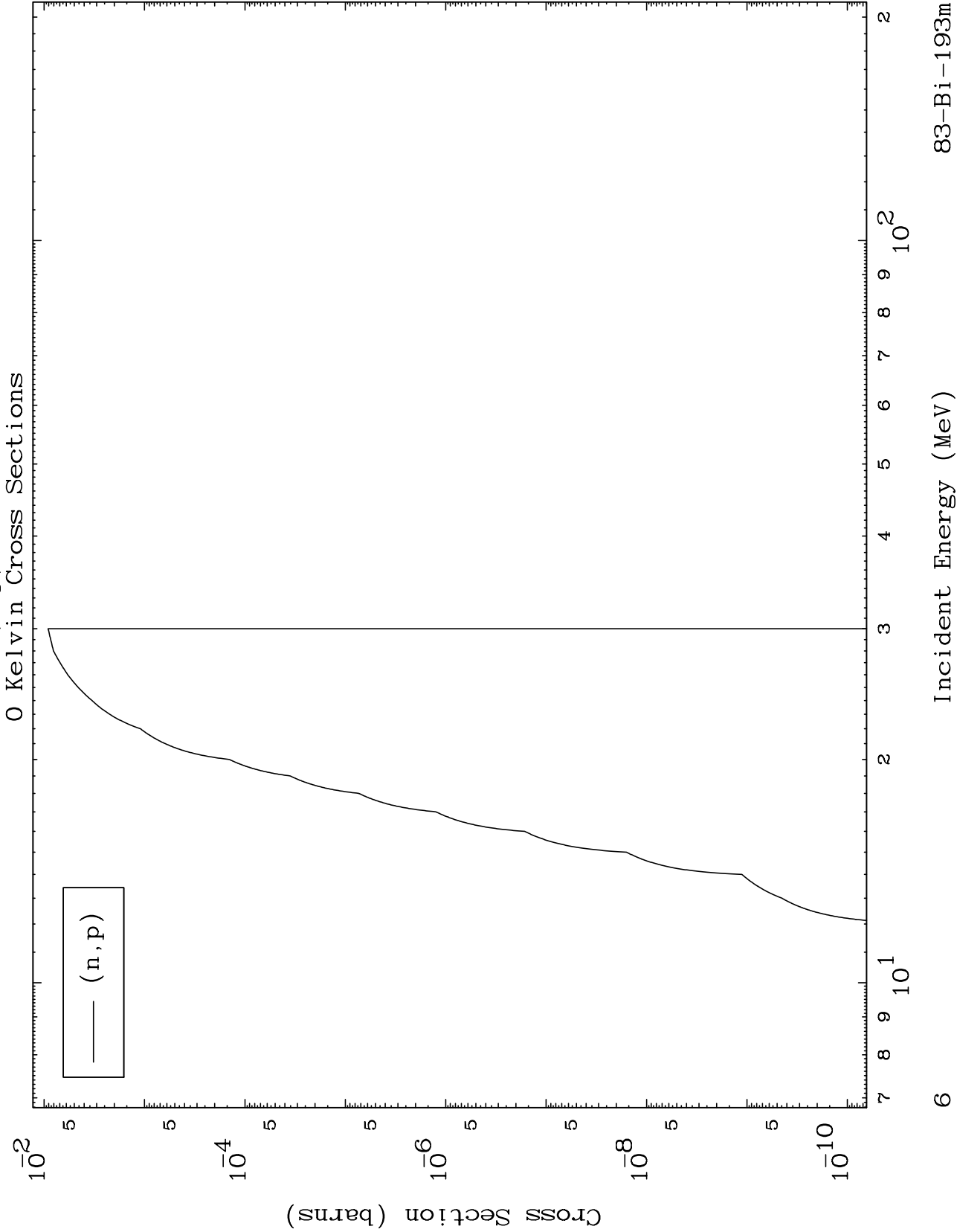
83-Bi-193m



MAT 8278

( $\alpha, p$ ) Levels

$^{83}\text{Bi}-193\text{m}$



6

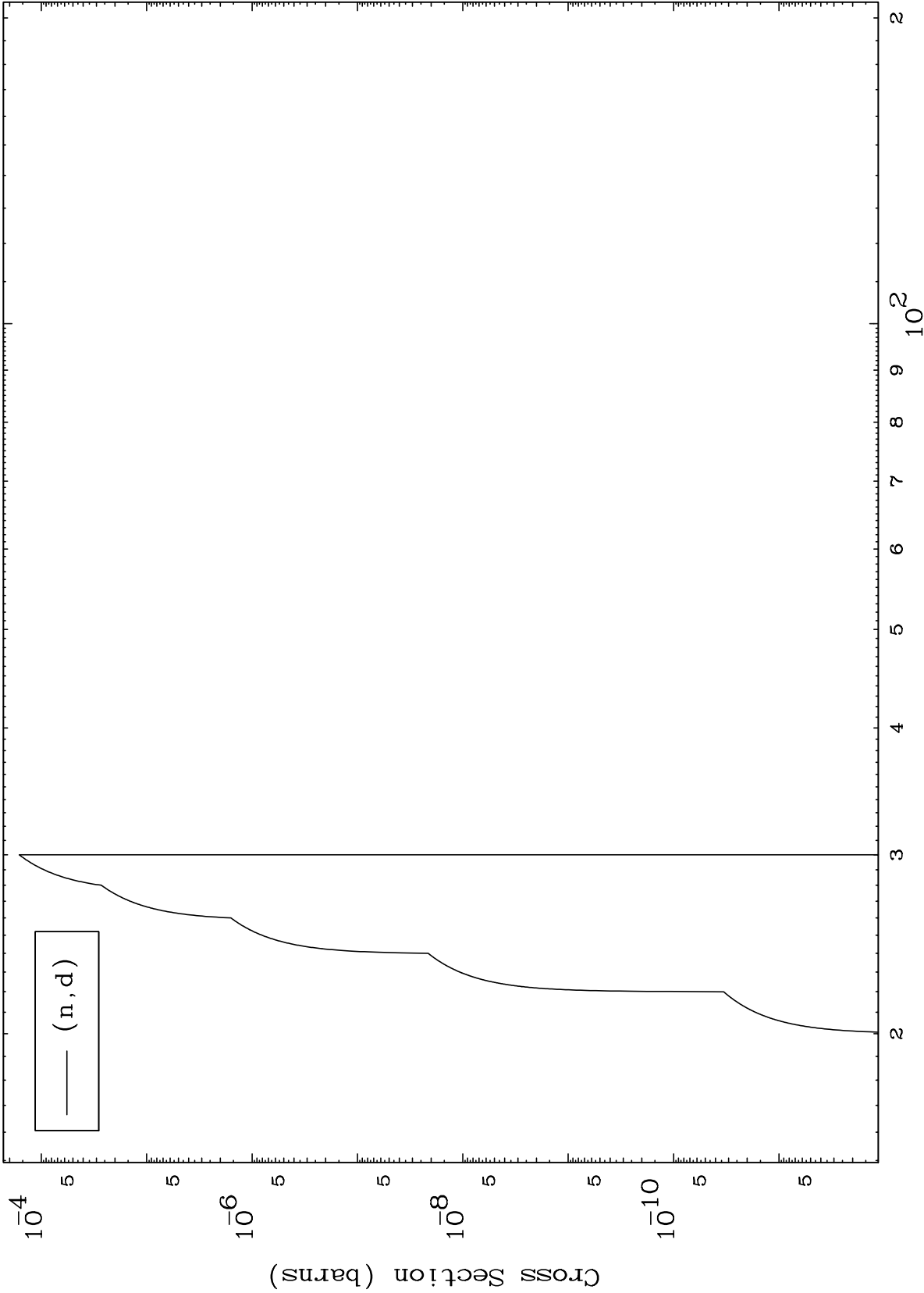
Incident Energy (MeV)

$^{83}\text{Bi}-193\text{m}$

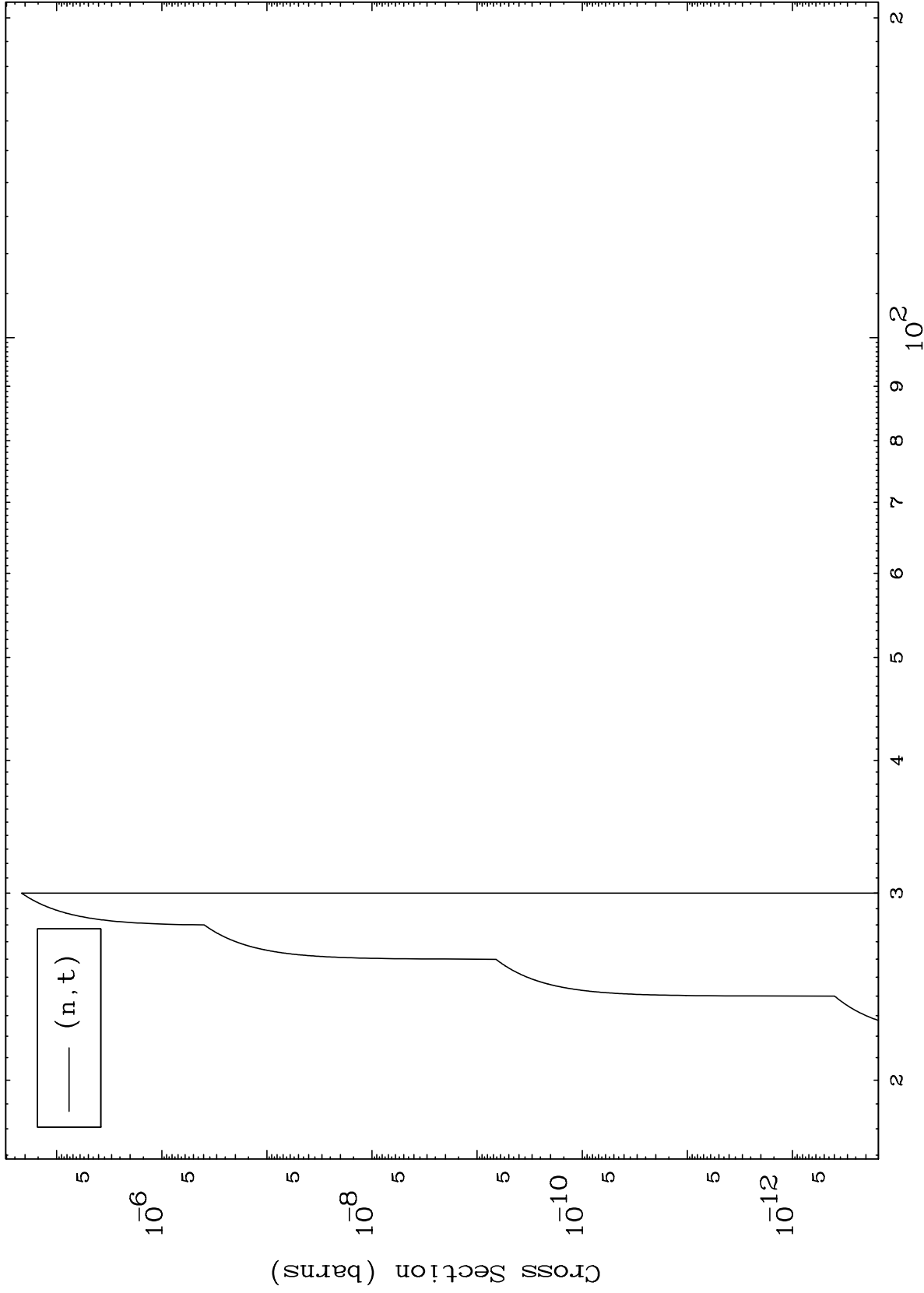
MAT 8278

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

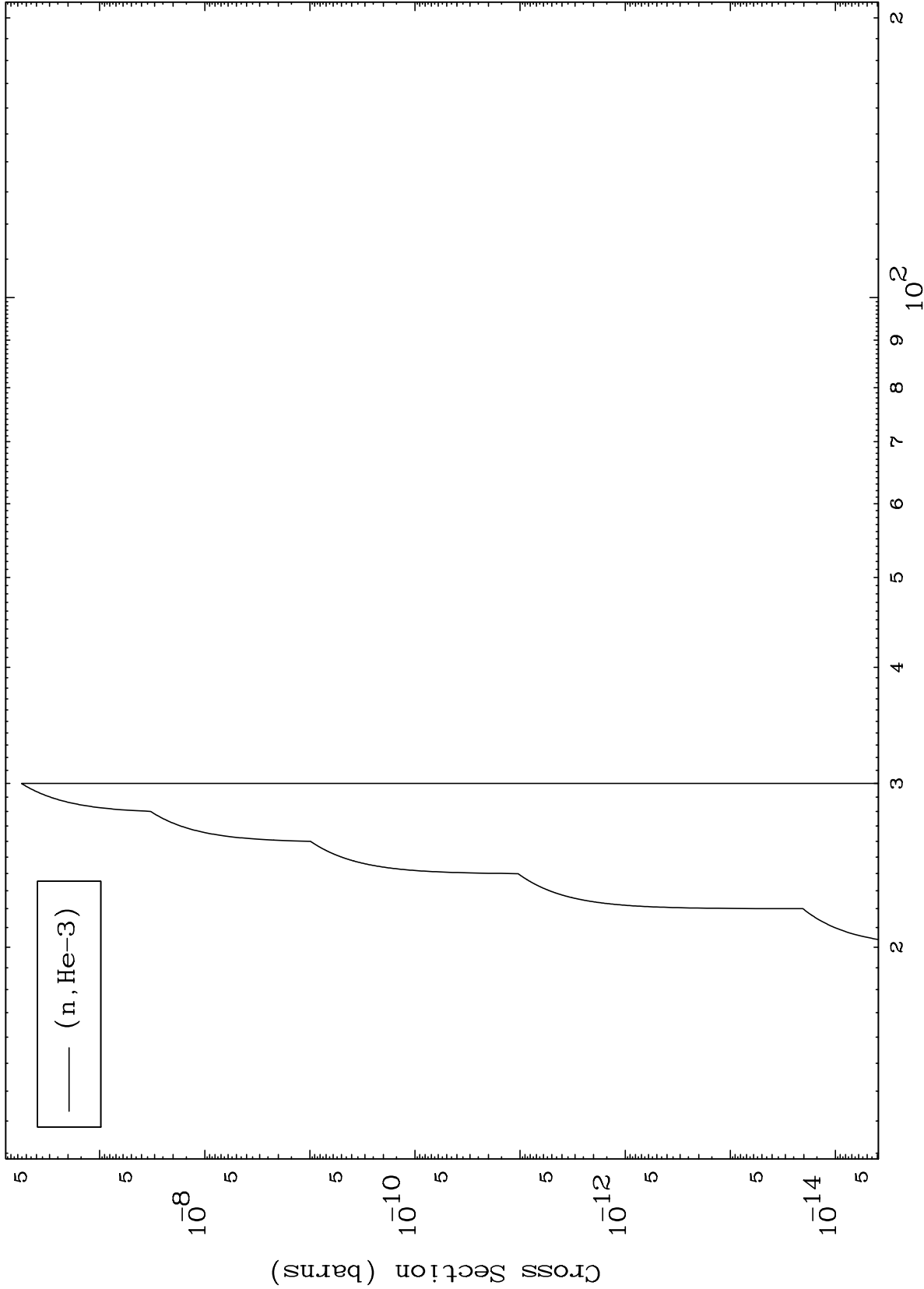
83-Bi-193m







0 Kelvin Cross Sections

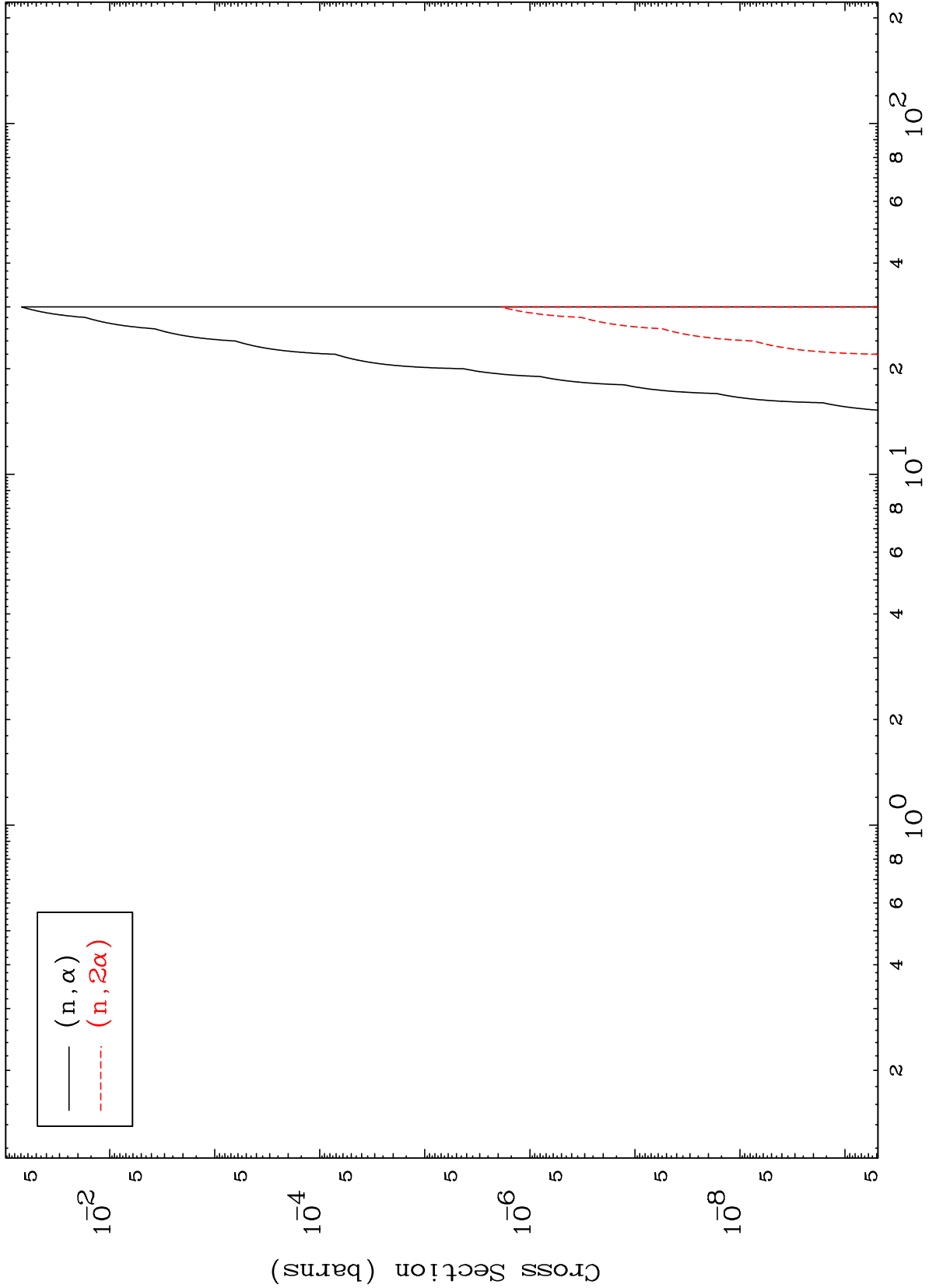


MAT 8278

( $\alpha, \alpha$ ) Levels

83-Bi-193m

0 Kelvin Cross Sections



10

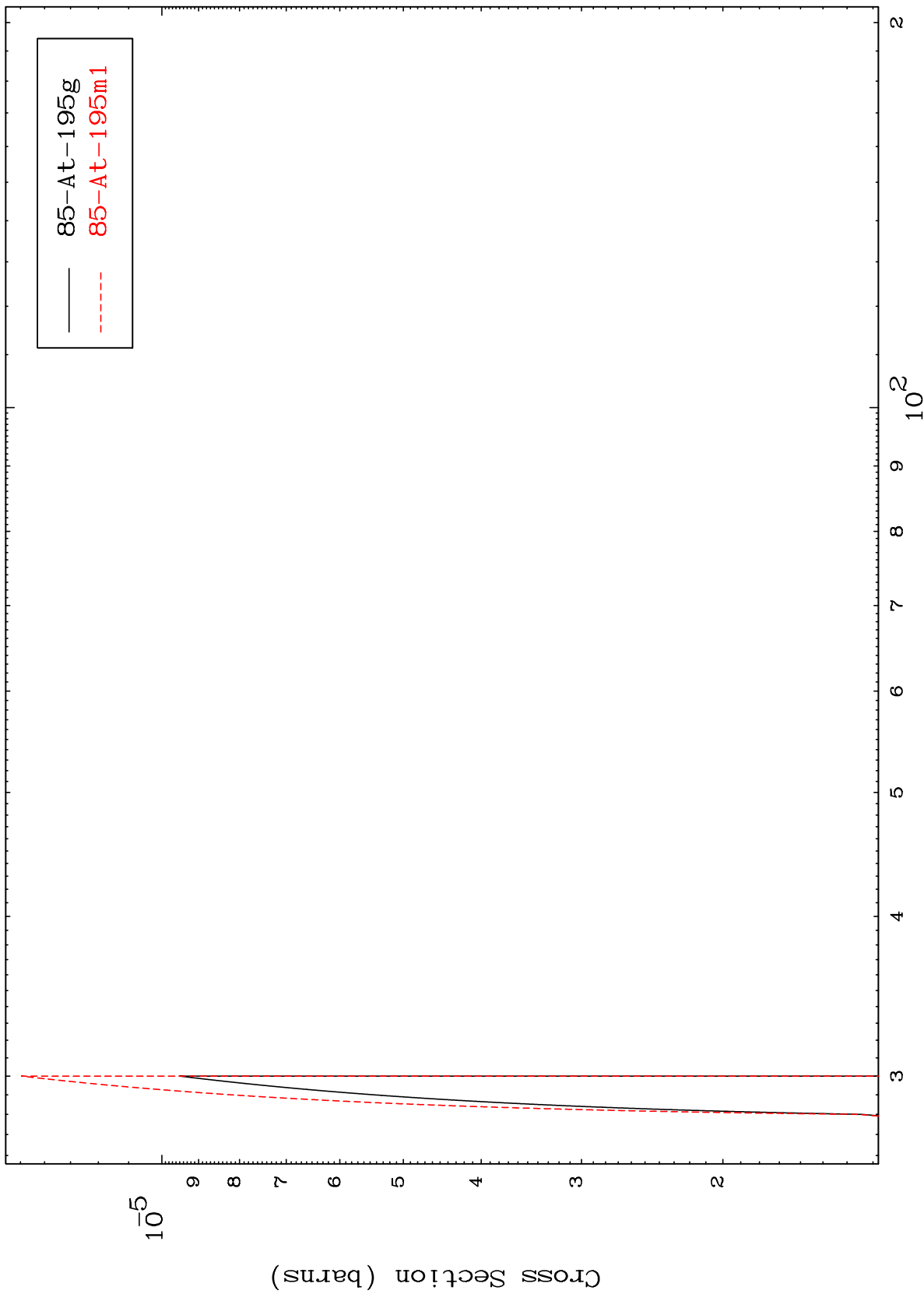
Incident Energy (MeV)

83-Bi-193m

MAT 8278

83-Bi-193m

(n,2n)  
Radionuclide Production Cross Section



11

83-Bi-193m

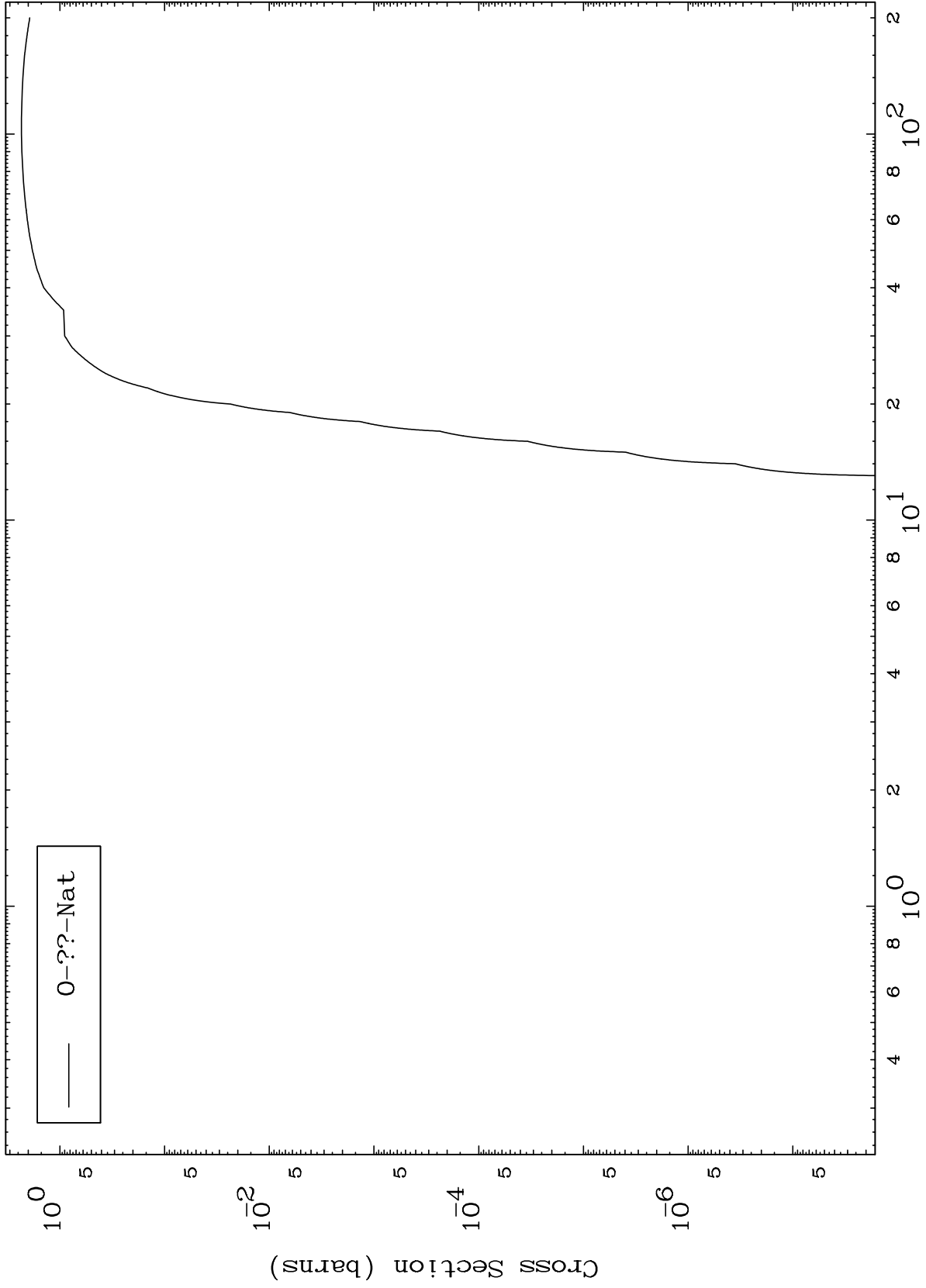
Incident Energy (MeV)

MAT 8278

Fission

<sup>83</sup>Bi-193m

Radionuclide Production Cross Section

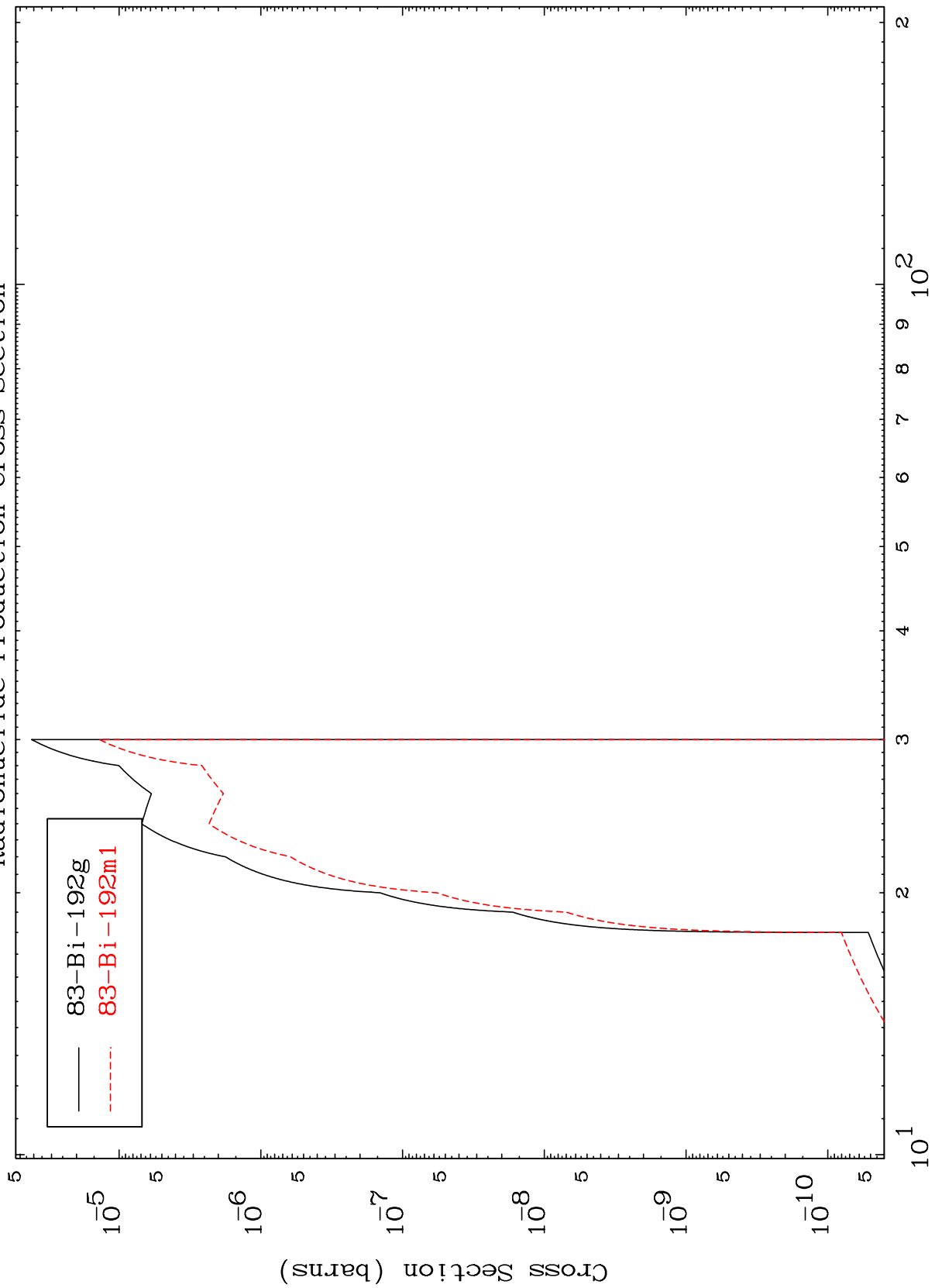


MAT 8278

(n,n')  $\alpha$

83-Bi-193m

Radionuclide Production Cross Section



Incident Energy (MeV)

83-Bi-193m

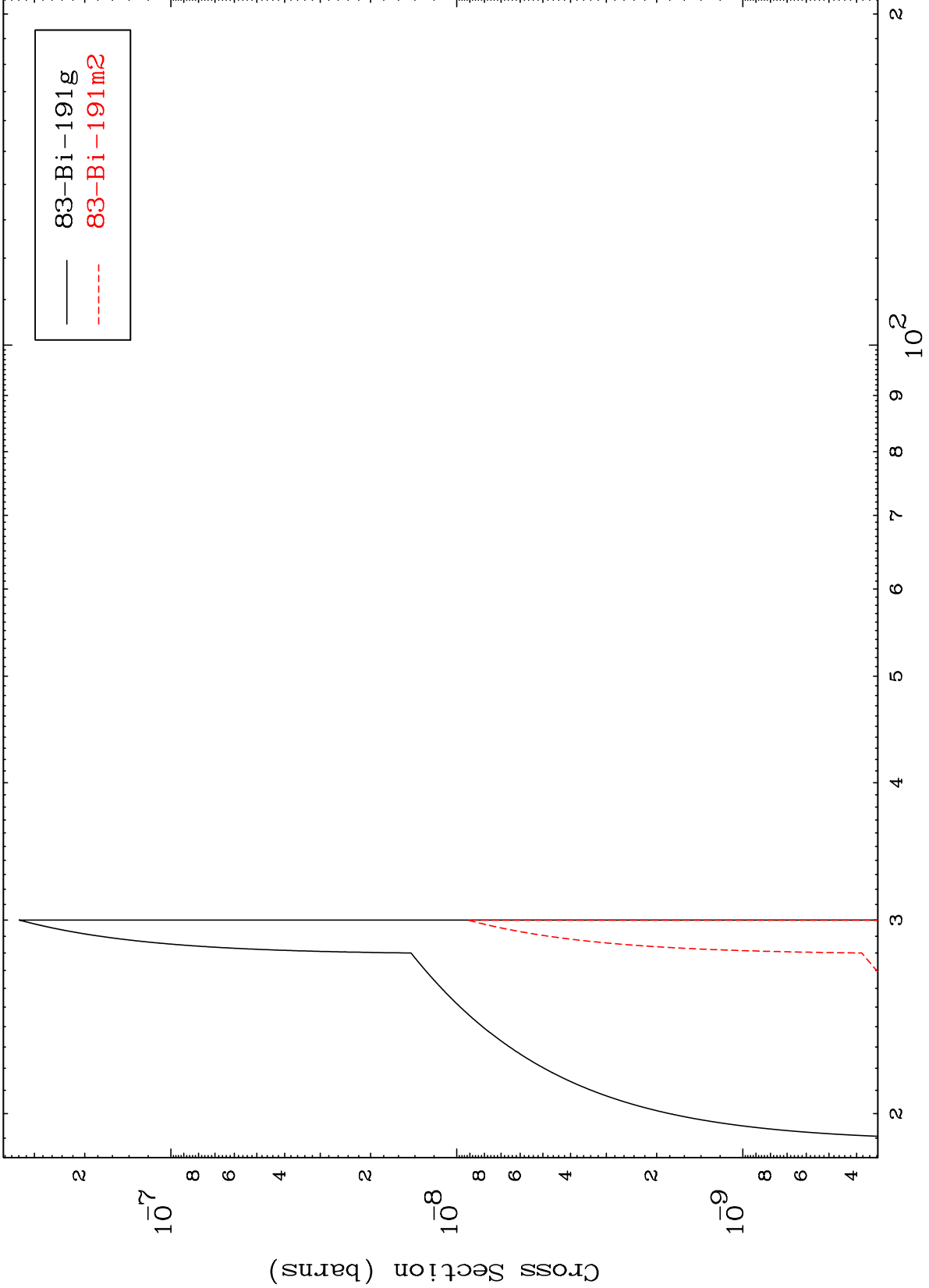
13

MAT 8278

$(n,2n) \alpha$

83-Bi-193m

Radionuclide Production Cross Section



83-Bi-191g  
83-Bi-191m2

14

Incident Energy (MeV)

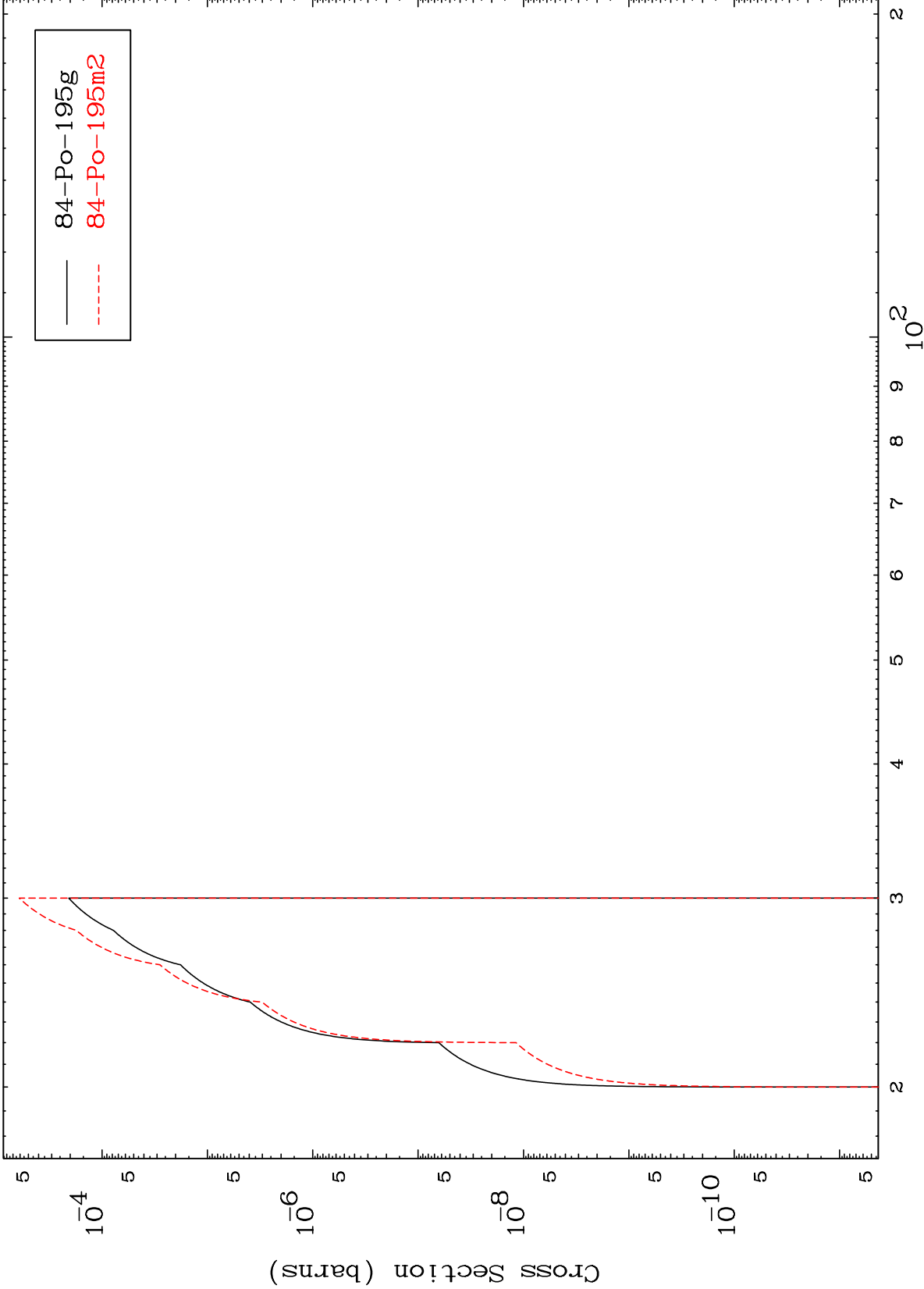
83-Bi-193m

MAT 8278

(n,n') p

83-Bi-193m

Radionuclide Production Cross Section



15

Incident Energy (MeV)

83-Bi-193m

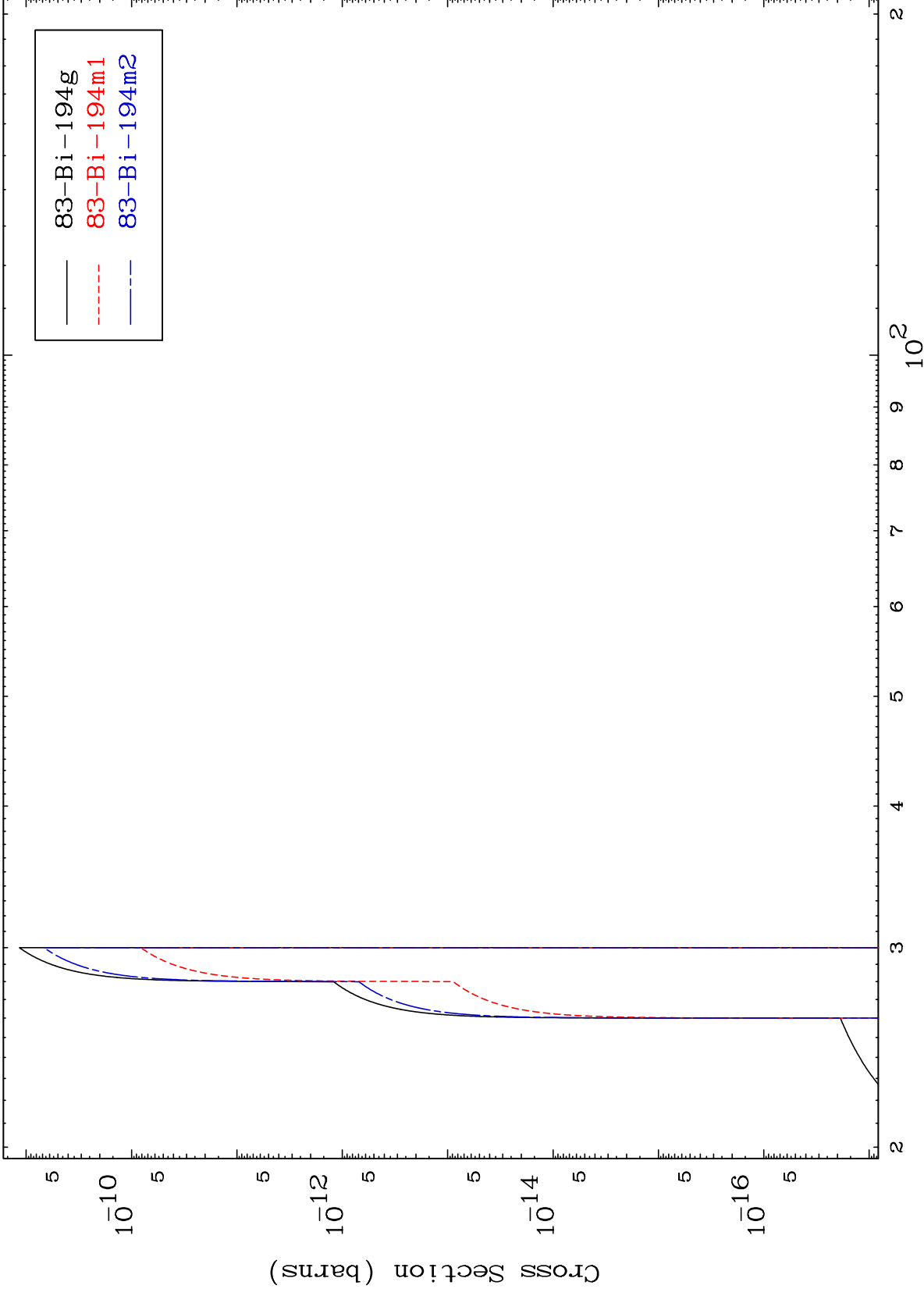


MAT 8278

$(n,2n)$  p

$^{83}\text{Bi}-193\text{m}$

Radionuclide Production Cross Section



16

Incident Energy (MeV)

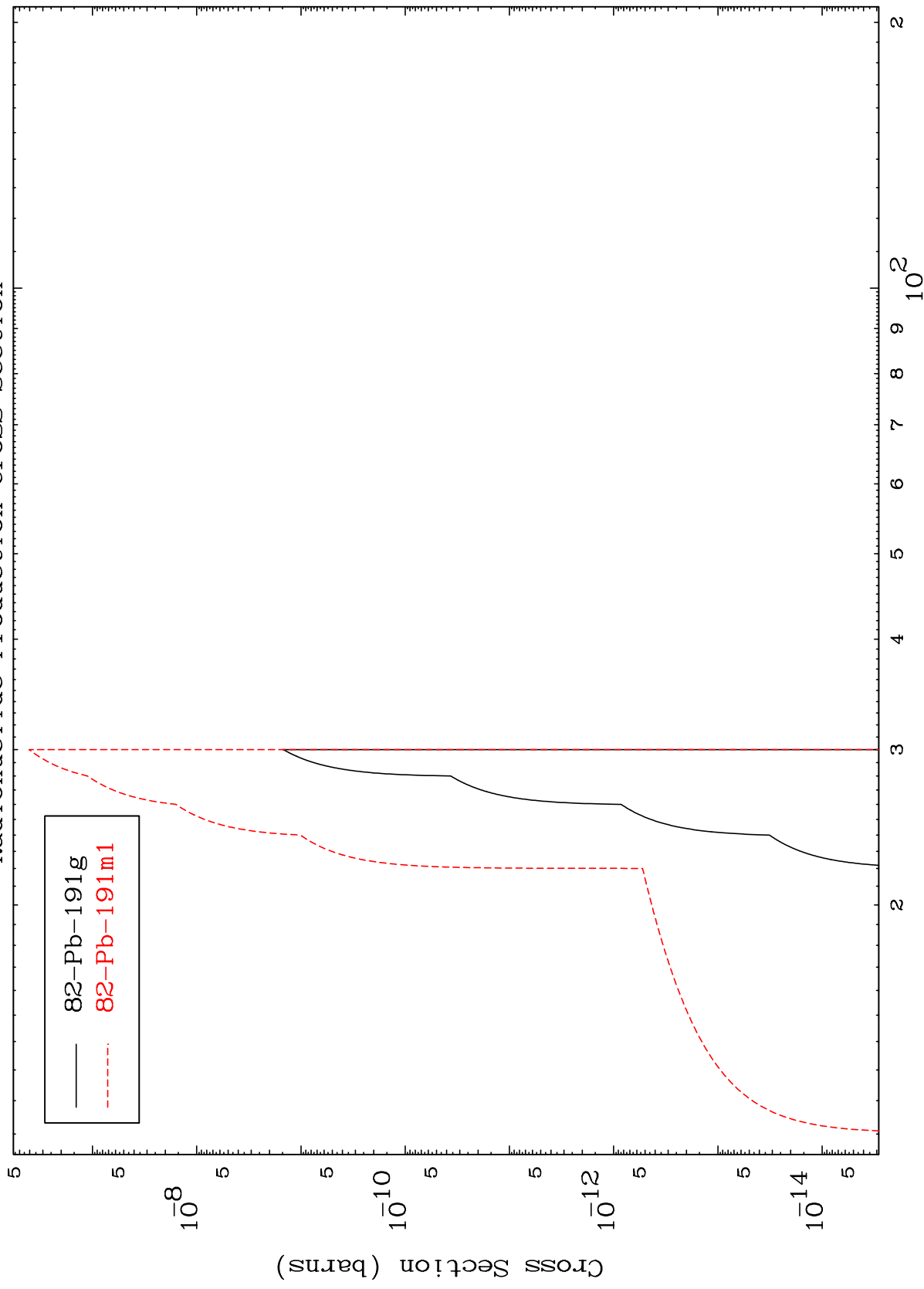
$^{83}\text{Bi}-193\text{m}$

MAT 8278

(n,n') p  $\alpha$

83-Bi-193m

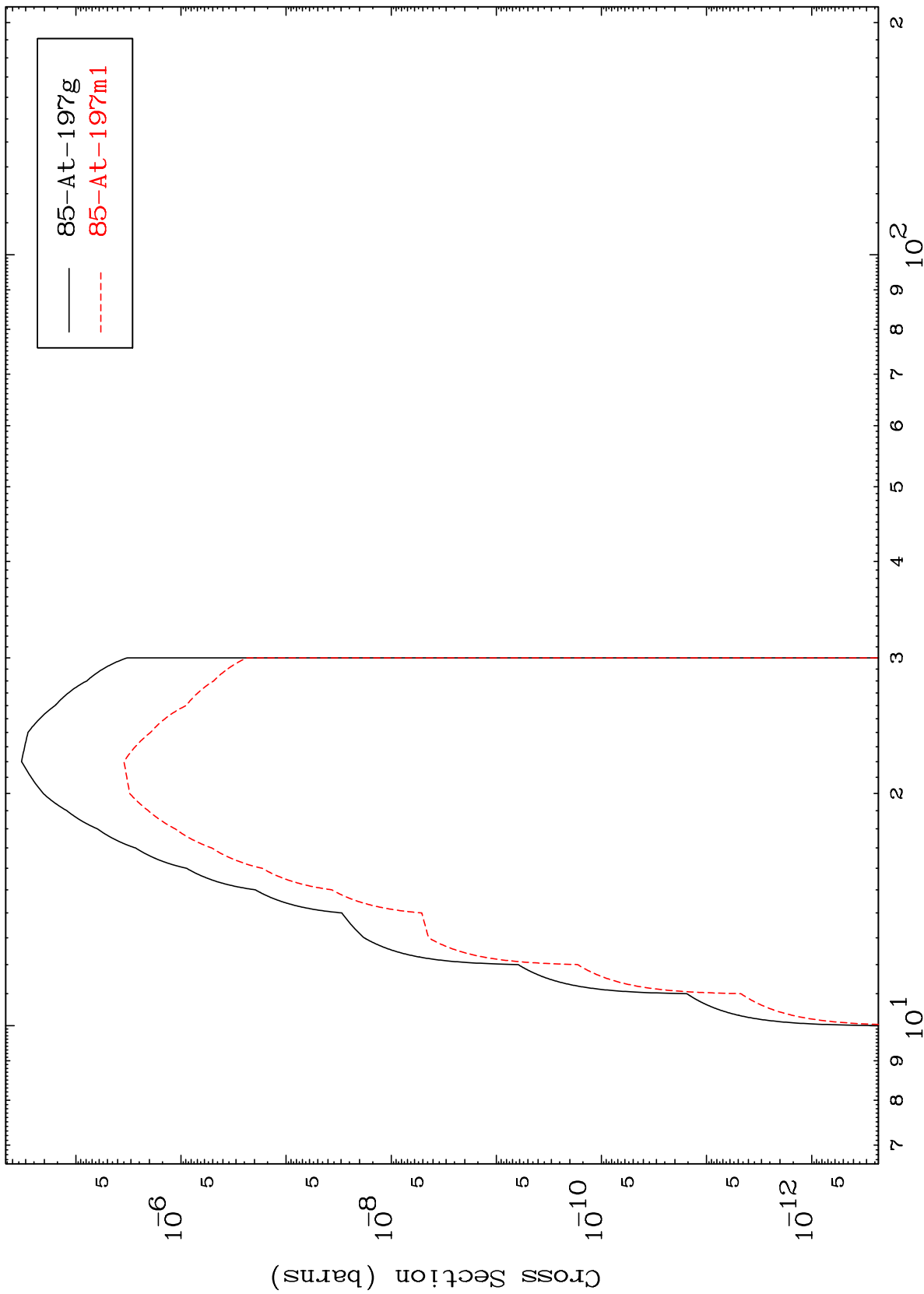
Radionuclide Production Cross Section



MAT 8278

83-Bi-193m

(n,γ)  
Radionuclide Production Cross Section



18

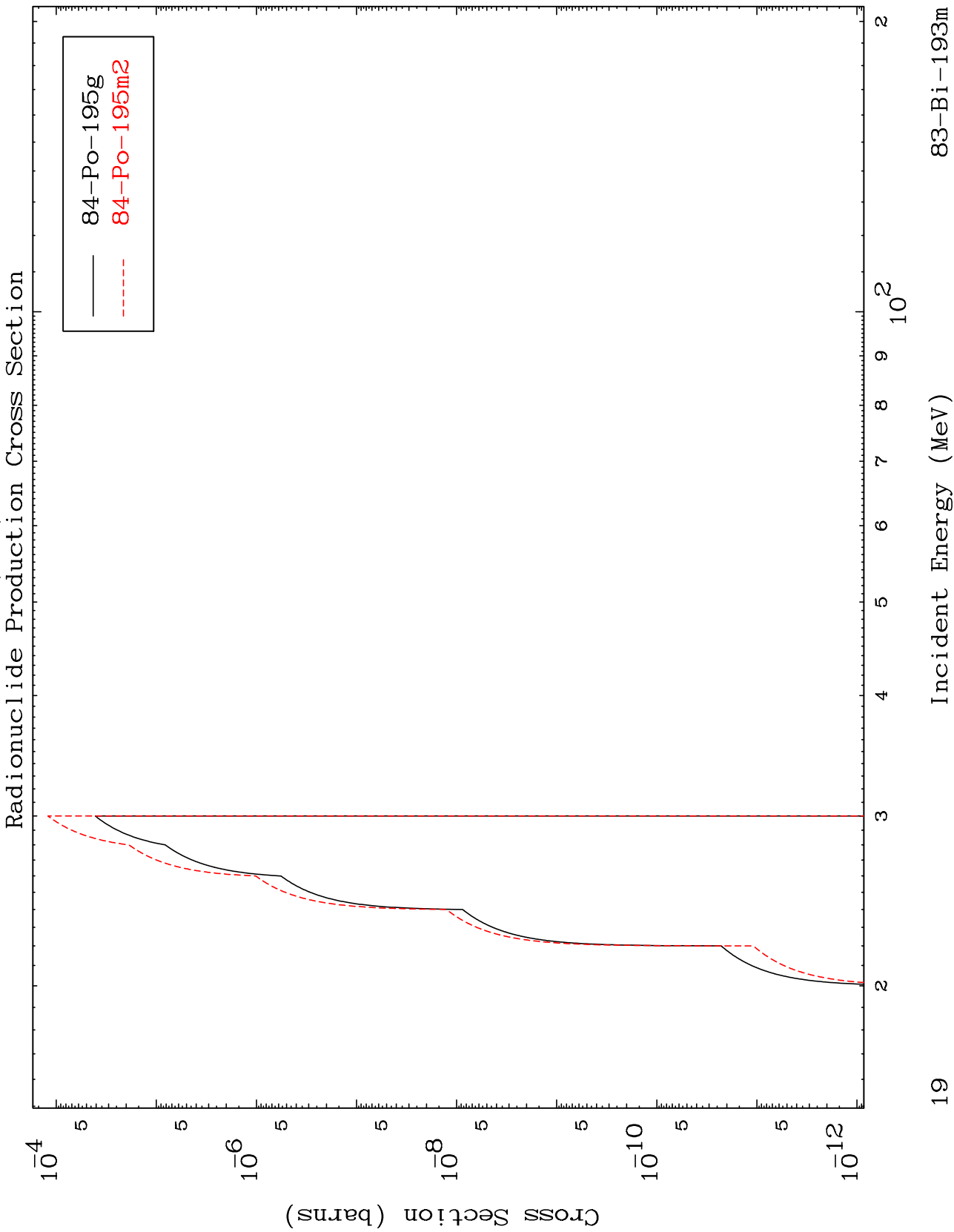
Incident Energy (MeV)

83-Bi-193m

MAT 8278

(n,d)

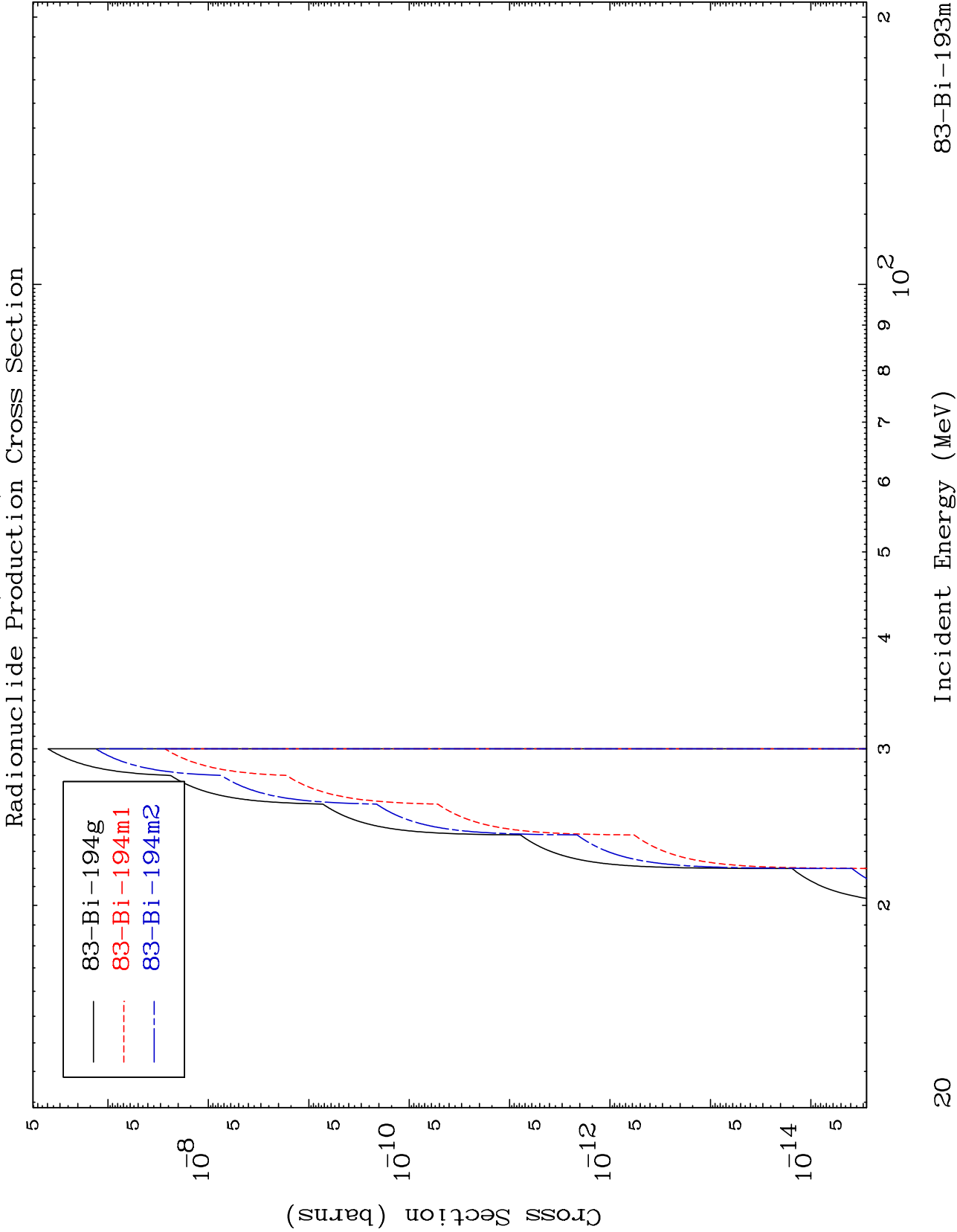
83-Bi-193m



19

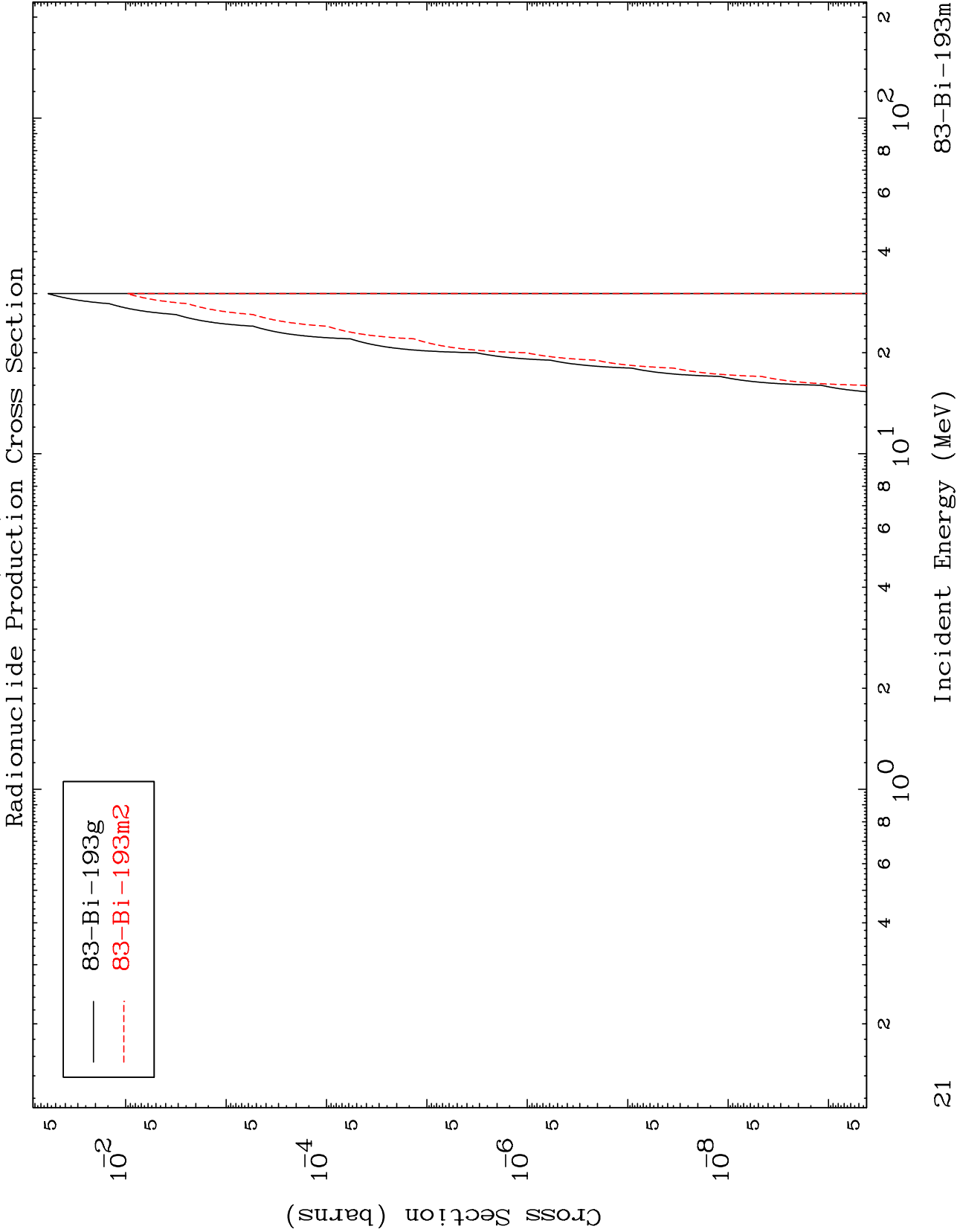
Incident Energy (MeV)

83-Bi-193m



MAT 8278

<sup>83</sup>Bi-193m



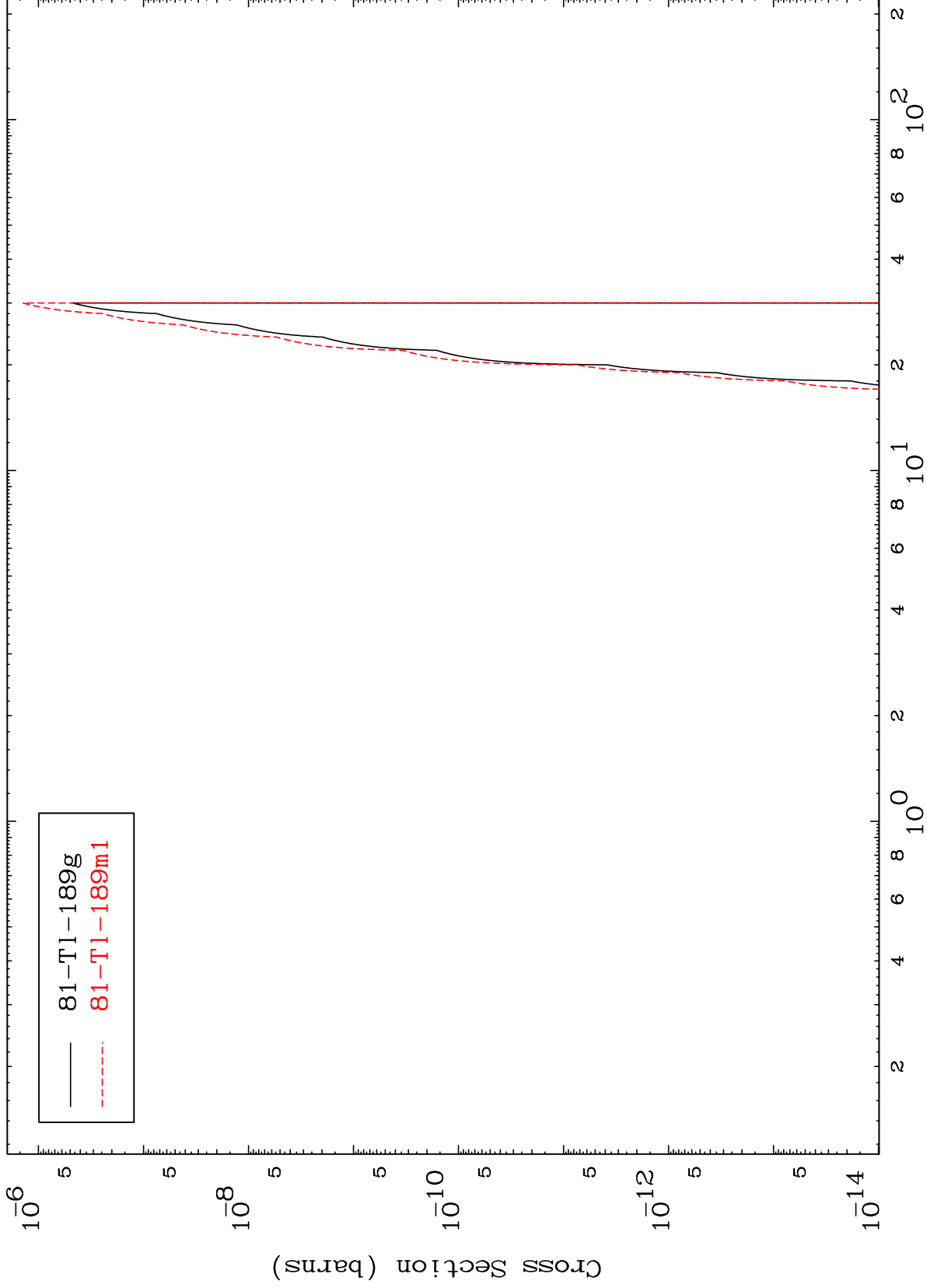
<sup>83</sup>Bi-193m

MAT 8278

(n,2α)

83-Bi-193m

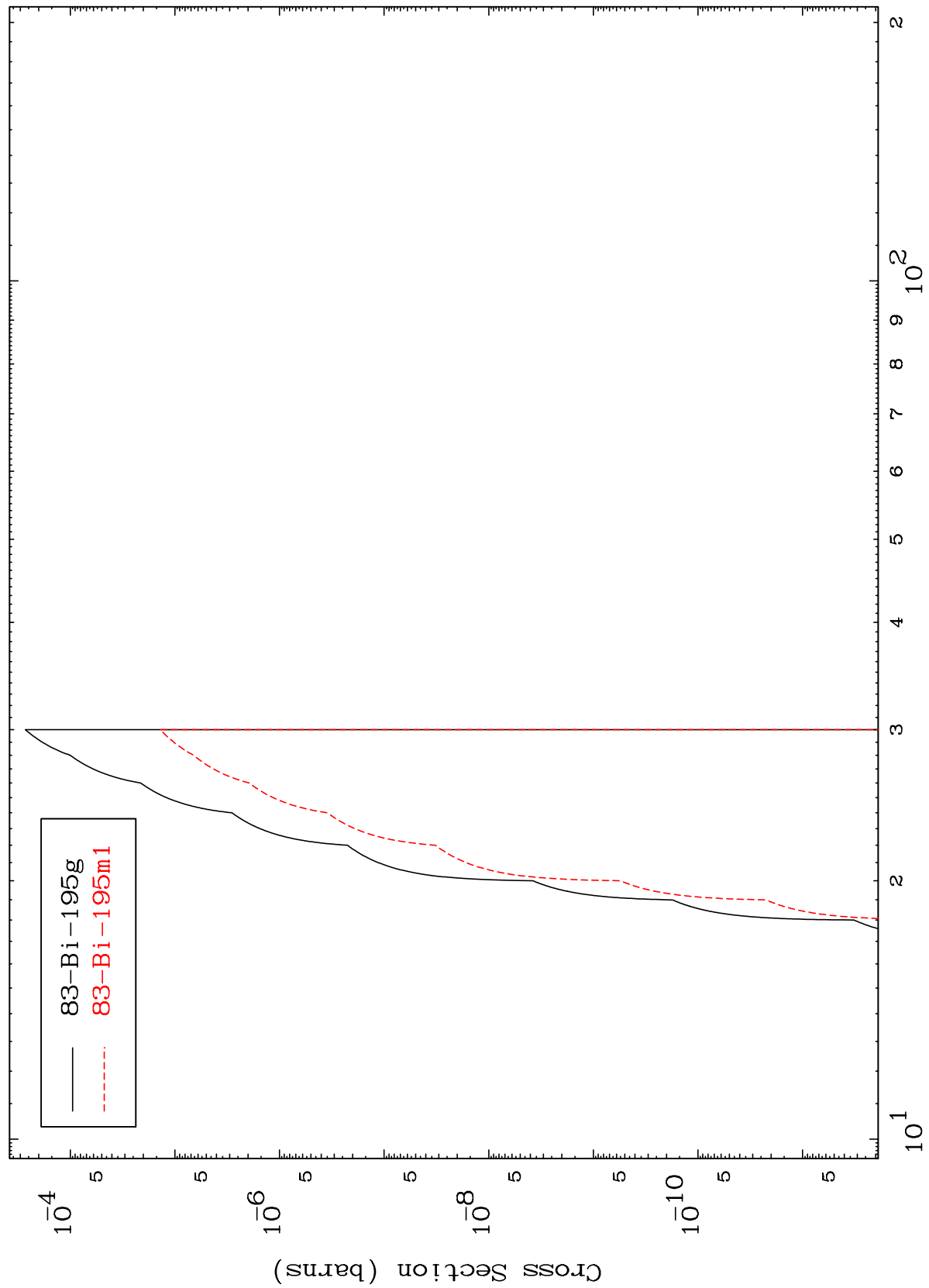
Radionuclide Production Cross Section



MAT 8278

<sup>83</sup>Bi-193m

(n,2p)  
Radionuclide Production Cross Section



<sup>83</sup>Bi-193m

Incident Energy (MeV)

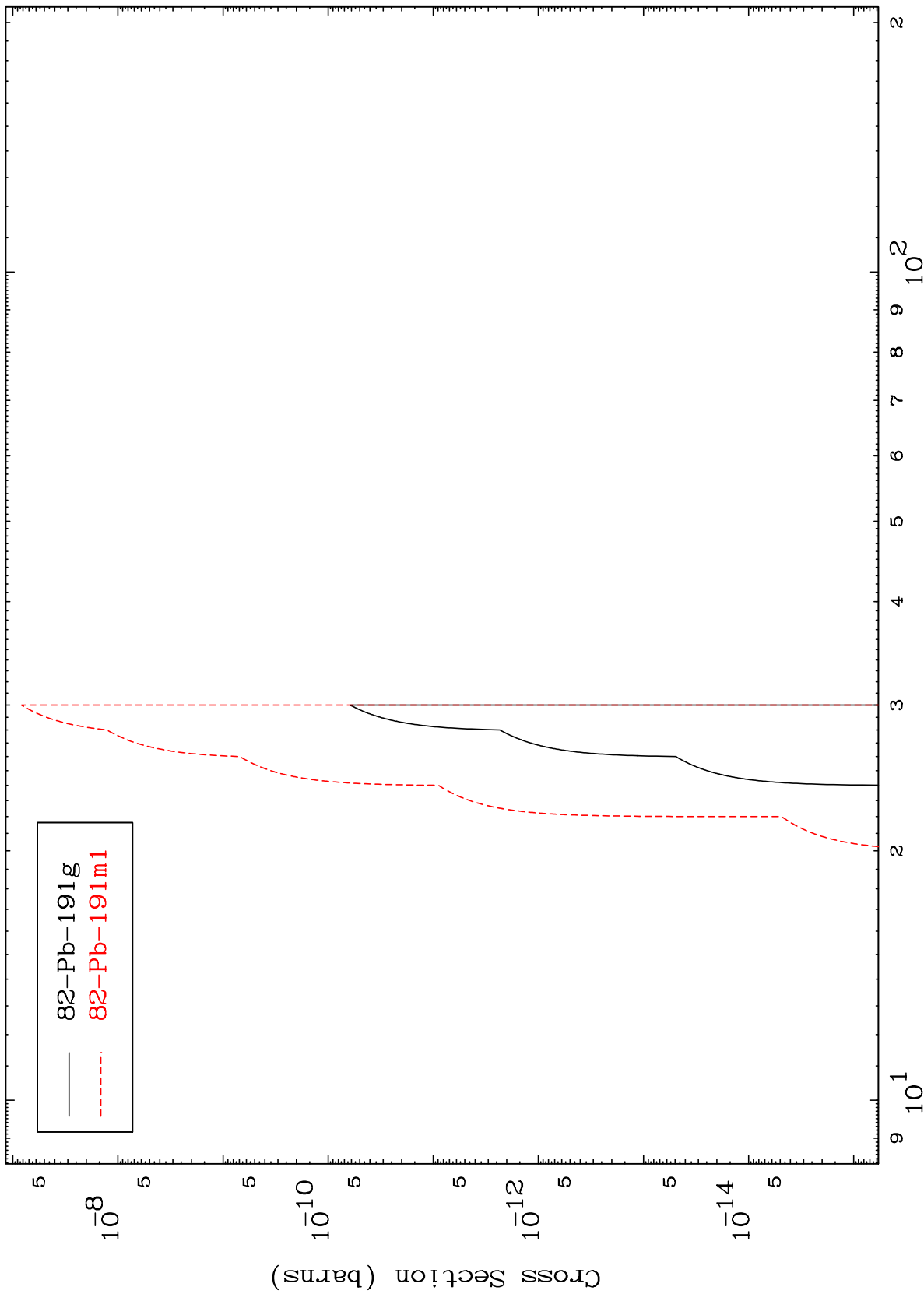
23



MAT 8278

83-Bi-193m

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



24

Incident Energy (MeV)

83-Bi-193m