

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

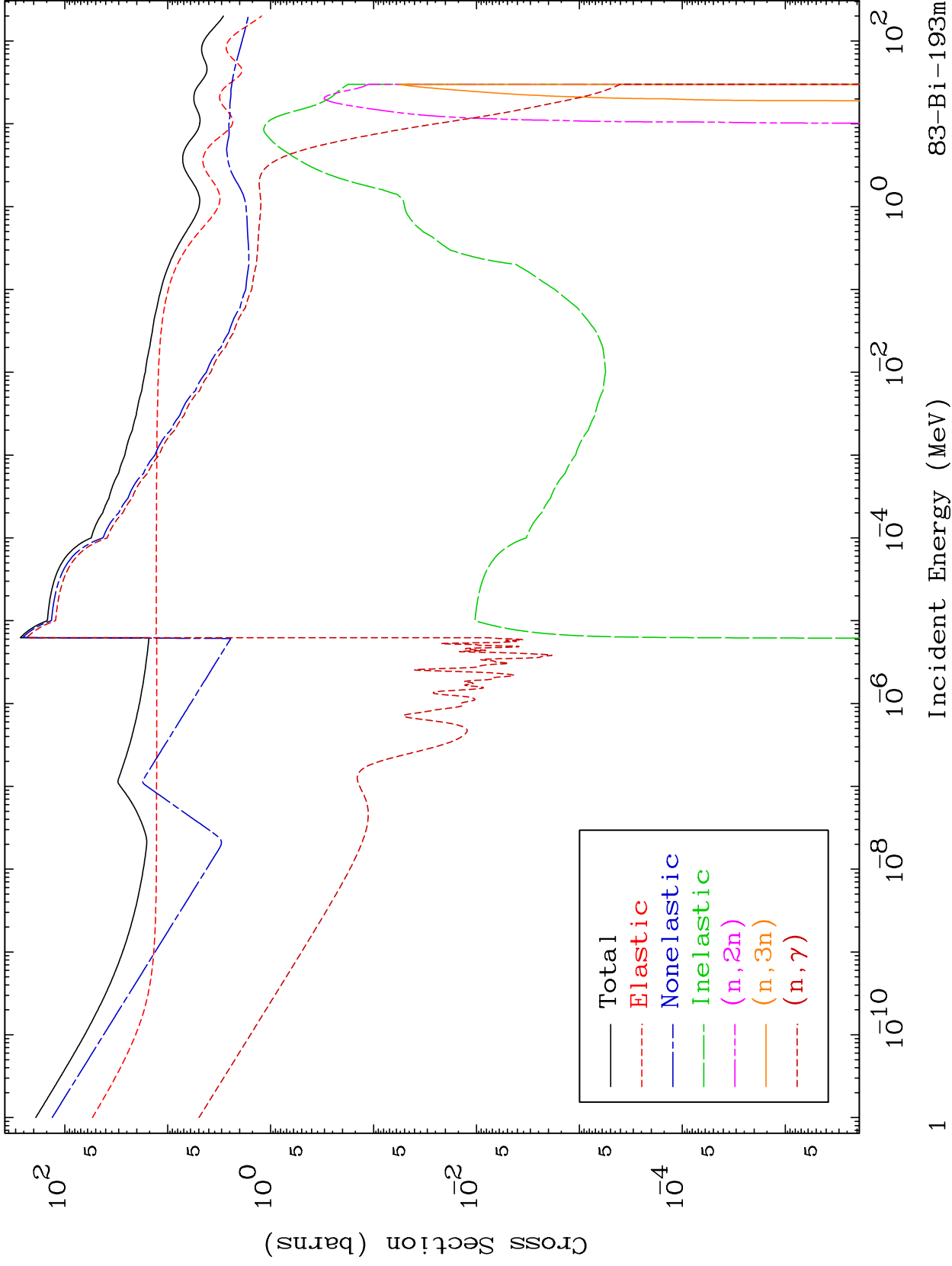
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 8278

Neutron Major  
293 Kelvin Cross Sections

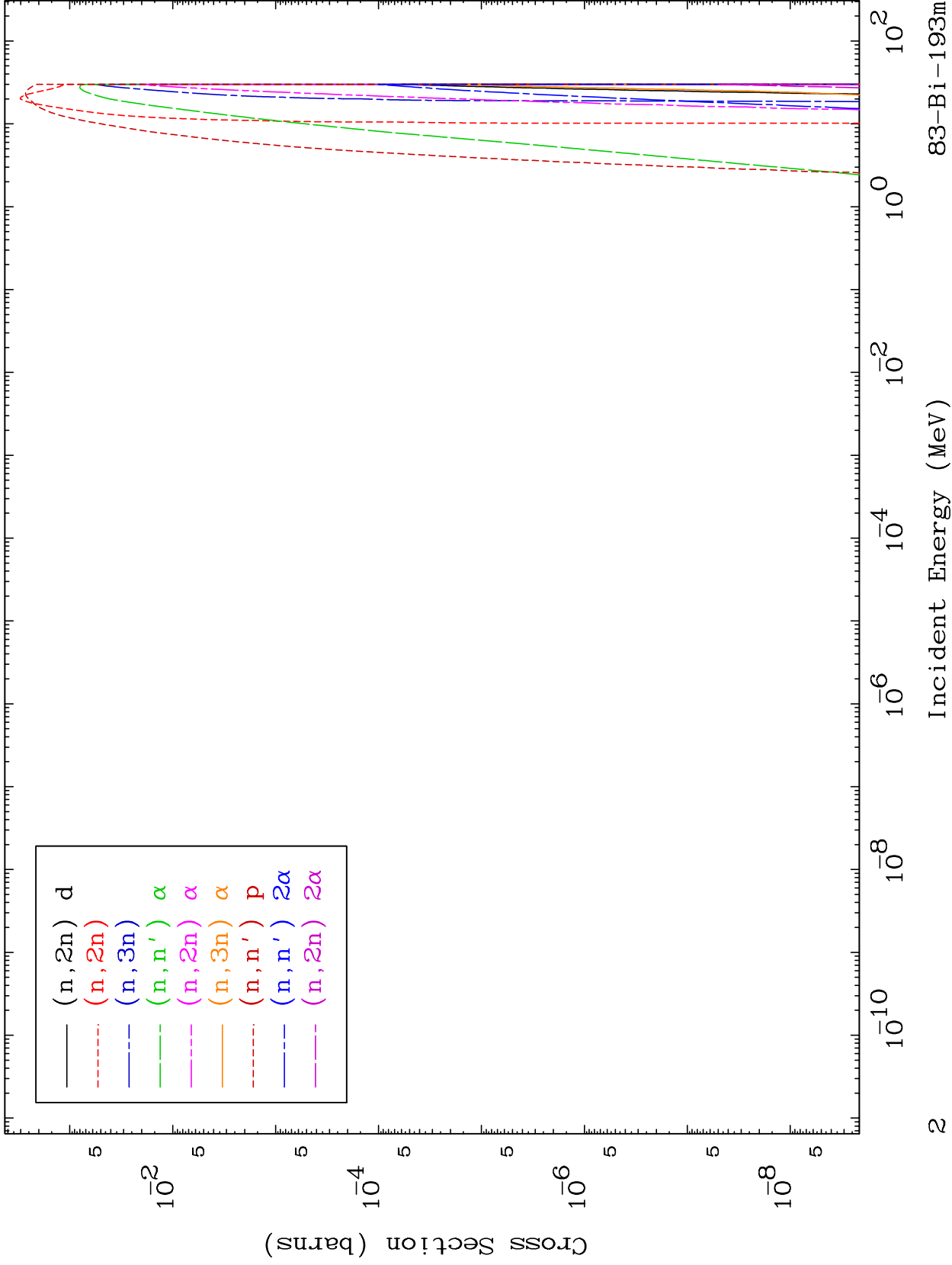
83-Bi-193m



MAT 8278

Neutron Absorption  
293 Kelvin Cross Sections

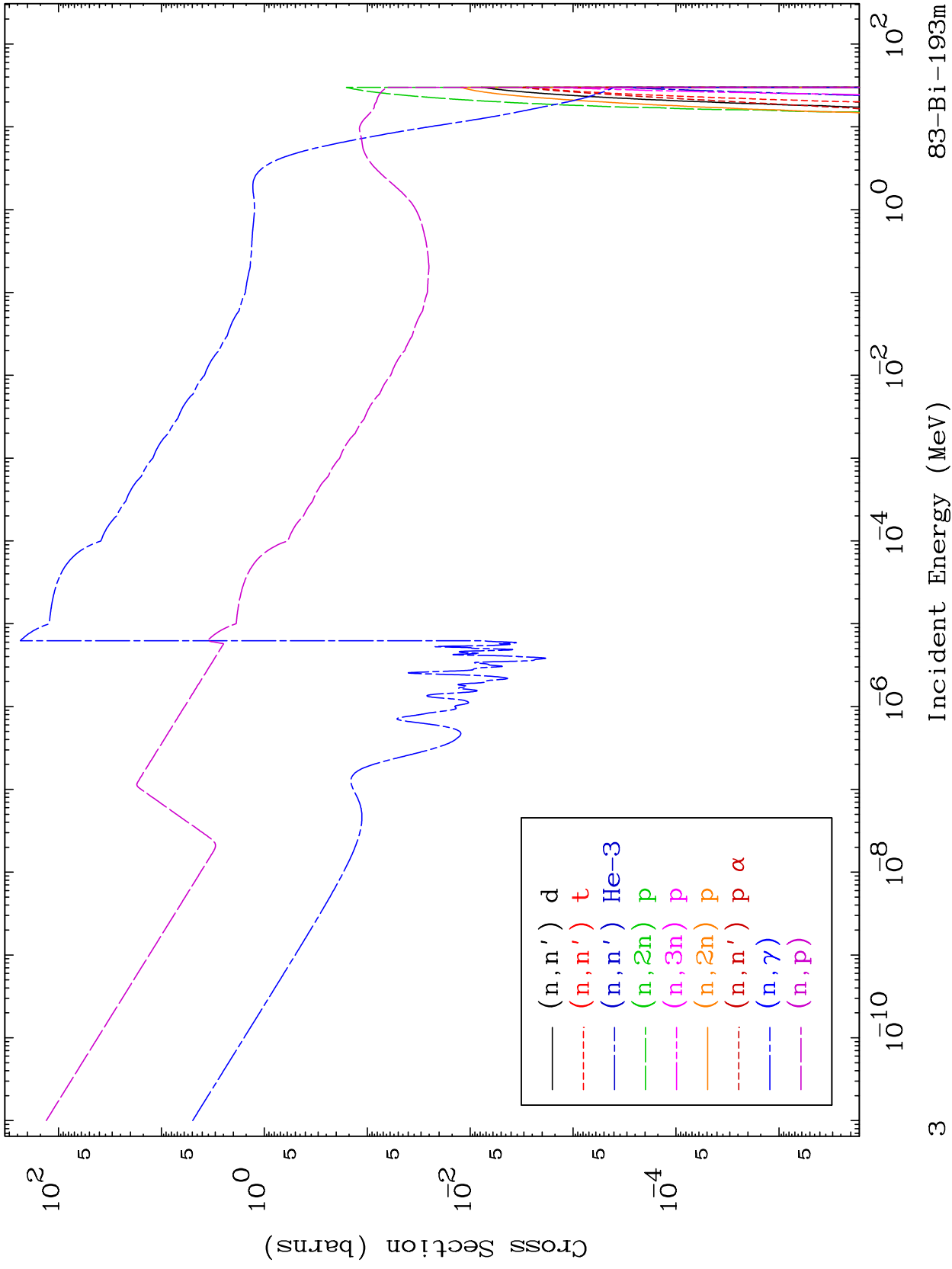
83-Bi-193m



MAT 8278

Neutron Absorption  
293 Kelvin Cross Sections

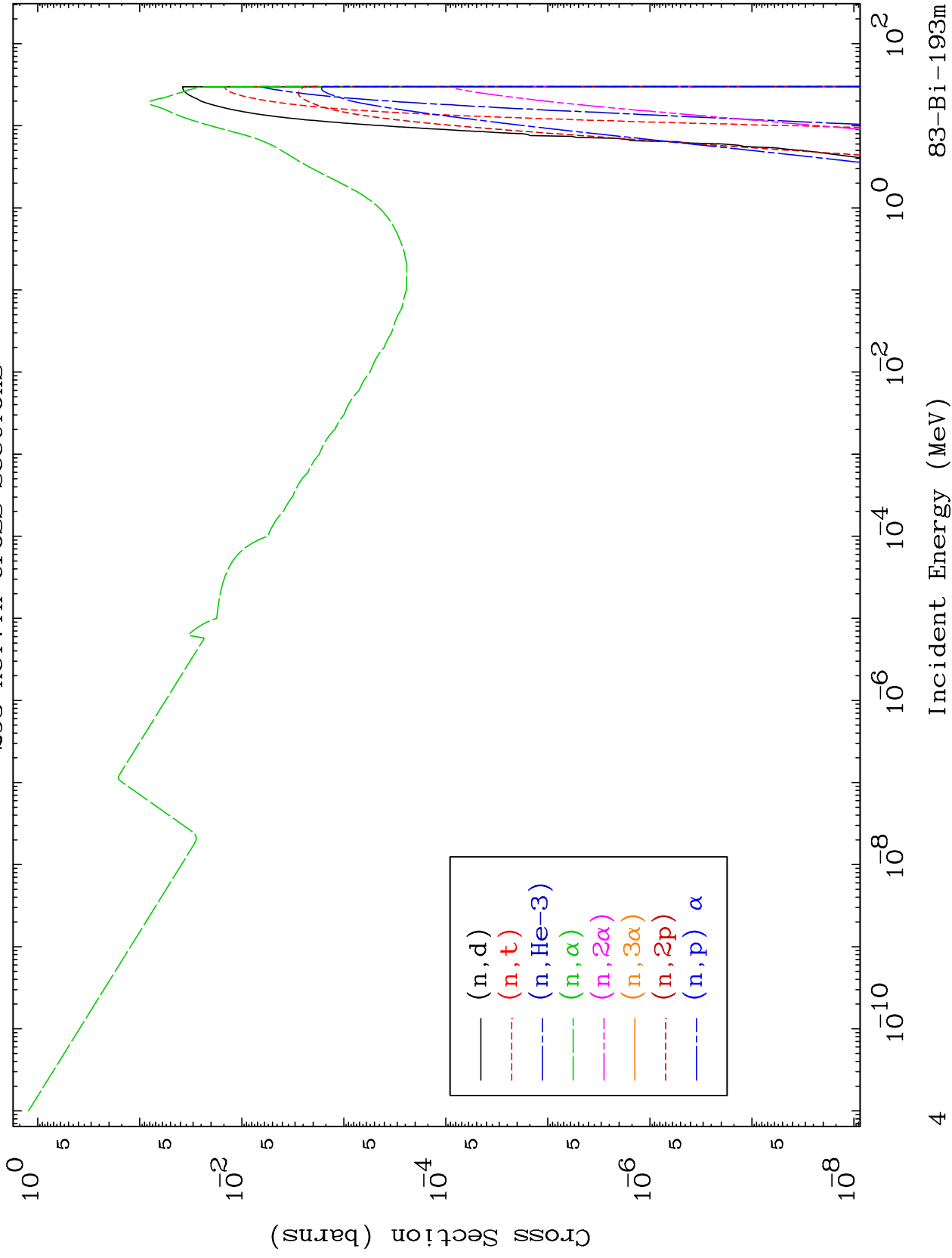
83-Bi-193m



MAT 8278

Neutron Absorption  
293 Kelvin Cross Sections

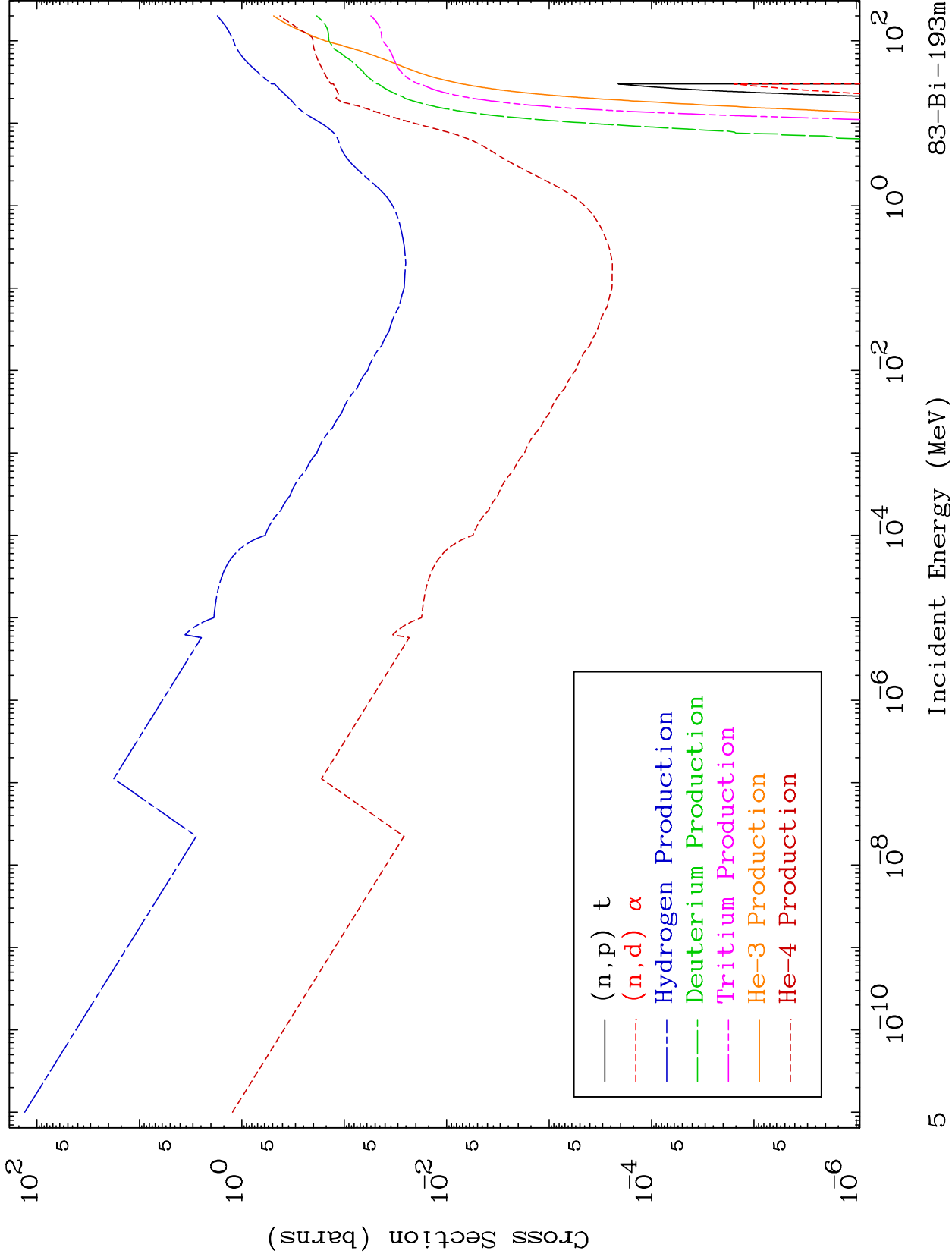
83-Bi-193m



MAT 8278

Neutron Absorption  
293 Kelvin Cross Sections

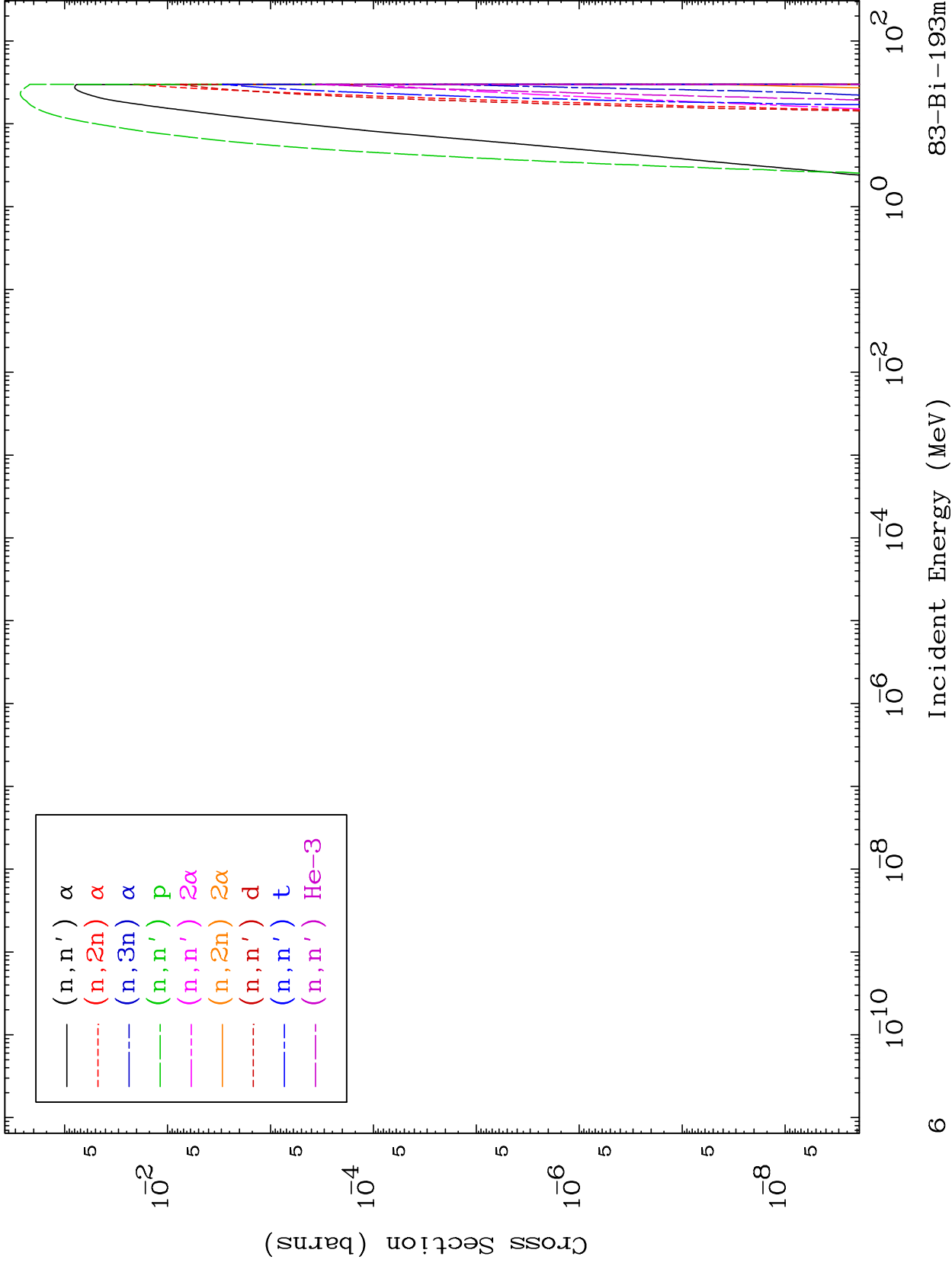
83-Bi-193m



MAT 8278

Charged Particle  
293 Kelvin Cross Sections

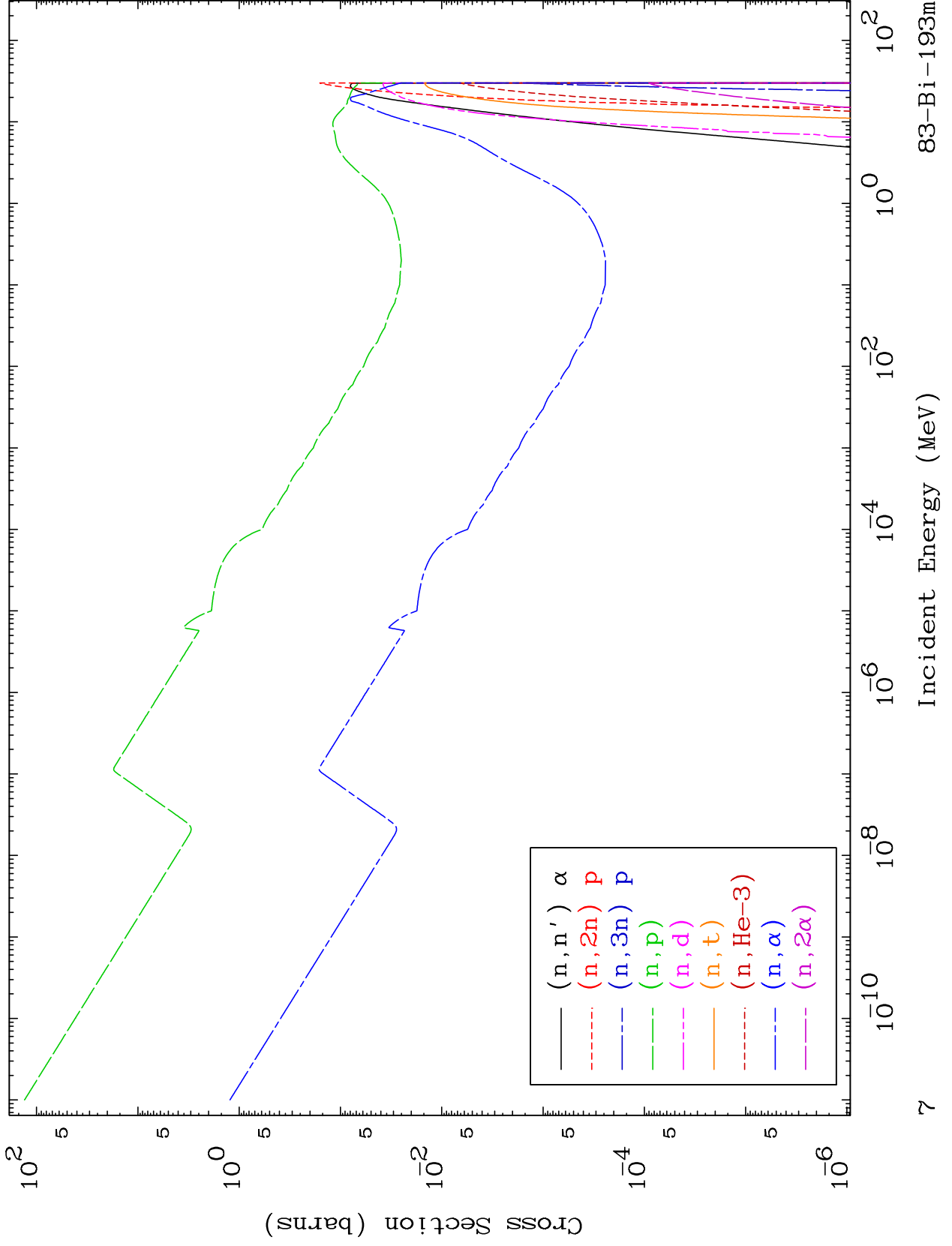
83-Bi-193m



MAT 8278

Charged Particle  
293 Kelvin Cross Sections

83-Bi-193m

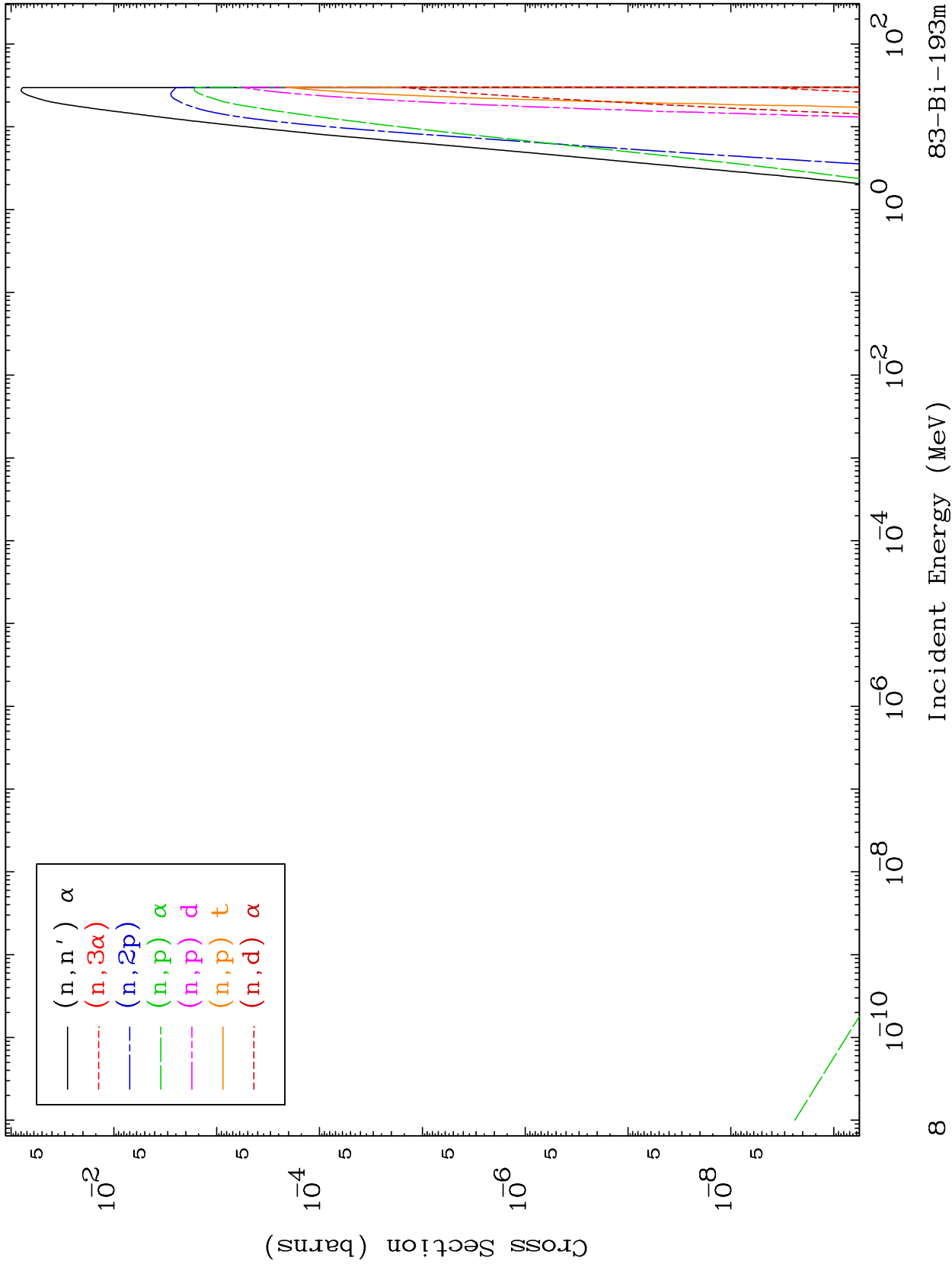




MAT 8278

Charged Particle  
293 Kelvin Cross Sections

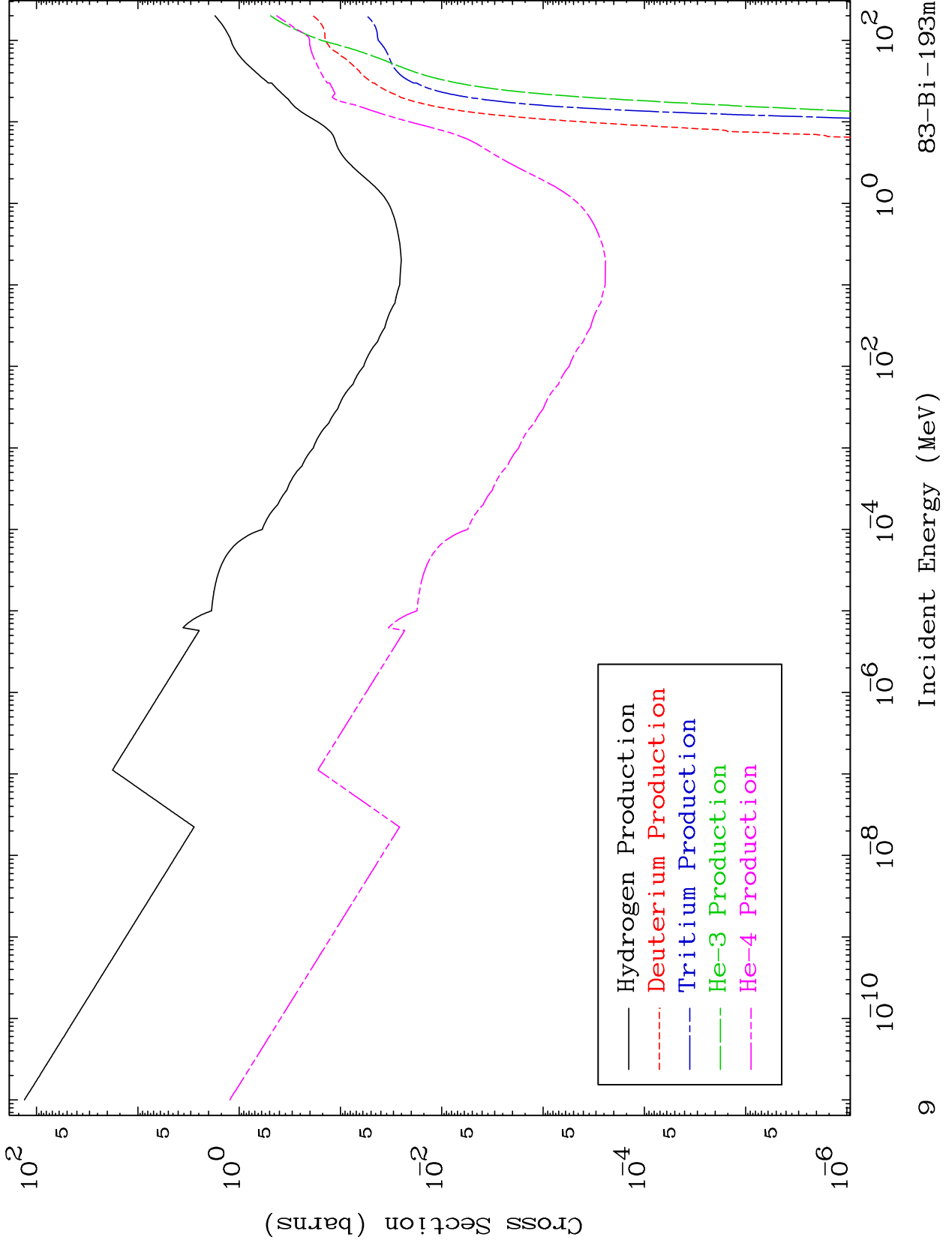
83-Bi-193m



MAT 8278

Particle Production  
293 Kelvin Cross Sections

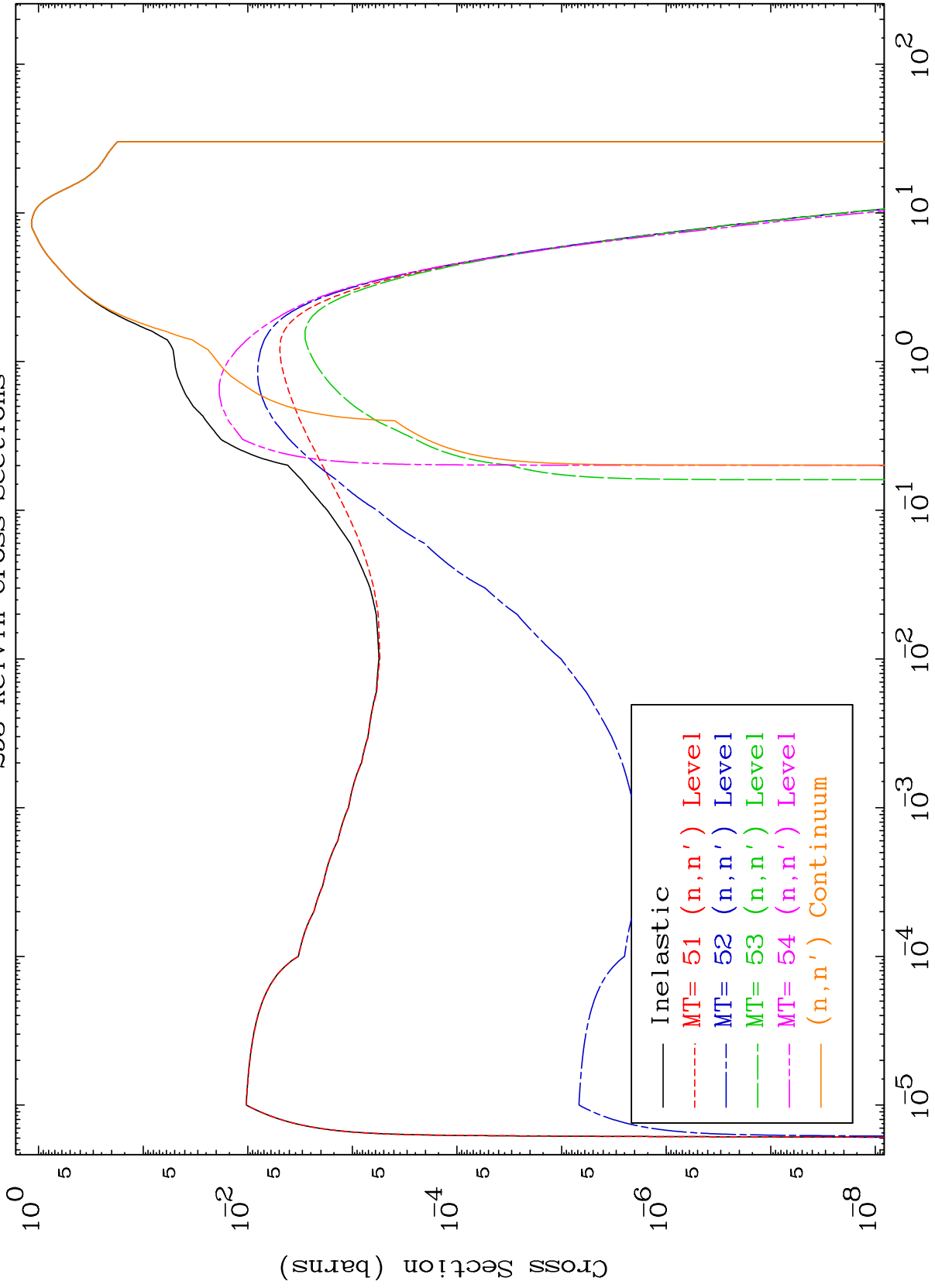
83-Bi-193m



MAT 8278

(n,n') Levels  
293 Kelvin Cross Sections

83-Bi-193m



83-Bi-193m

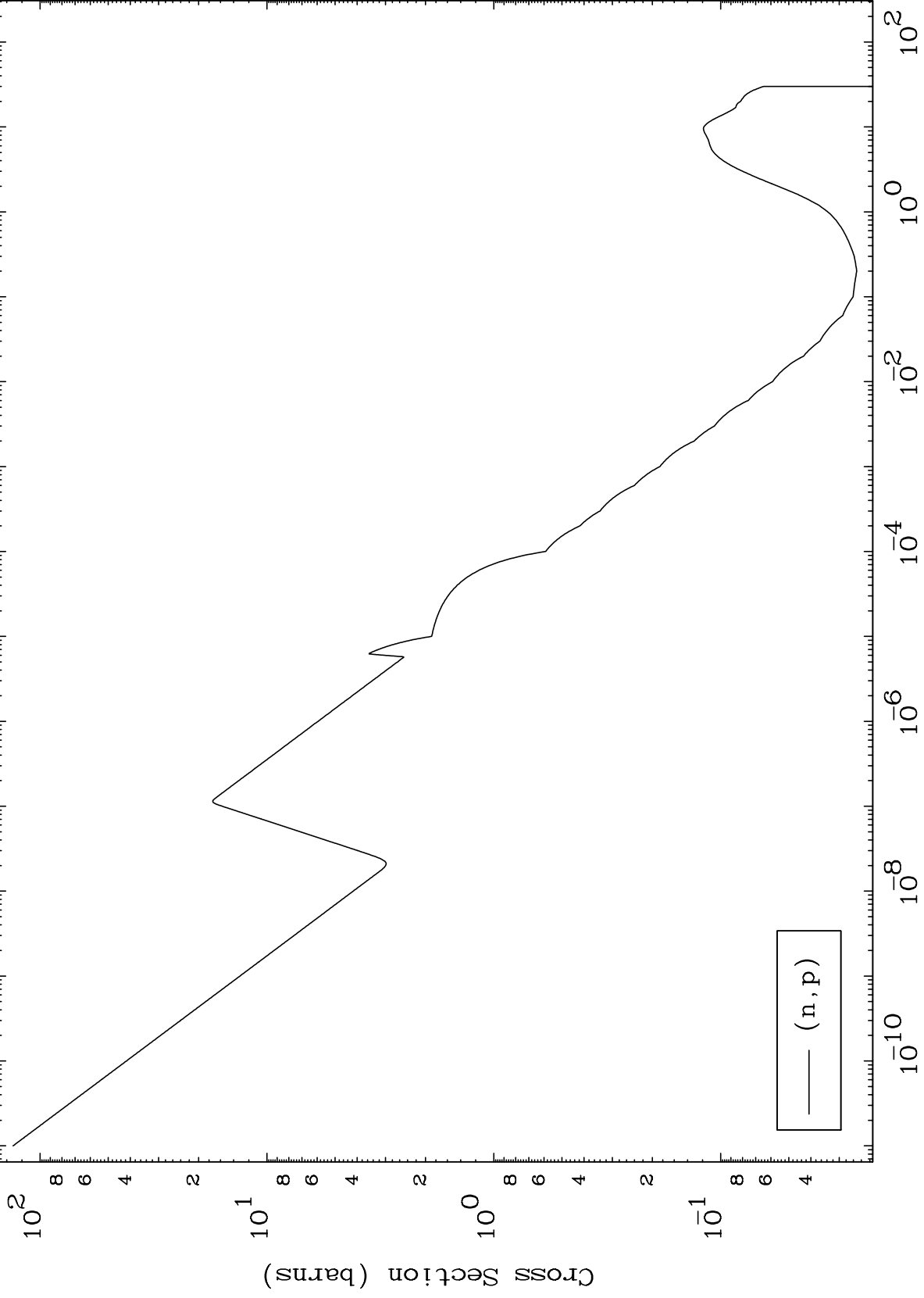
Incident Energy (MeV)

10

MAT 8278

(n,p) Levels  
293 Kelvin Cross Sections

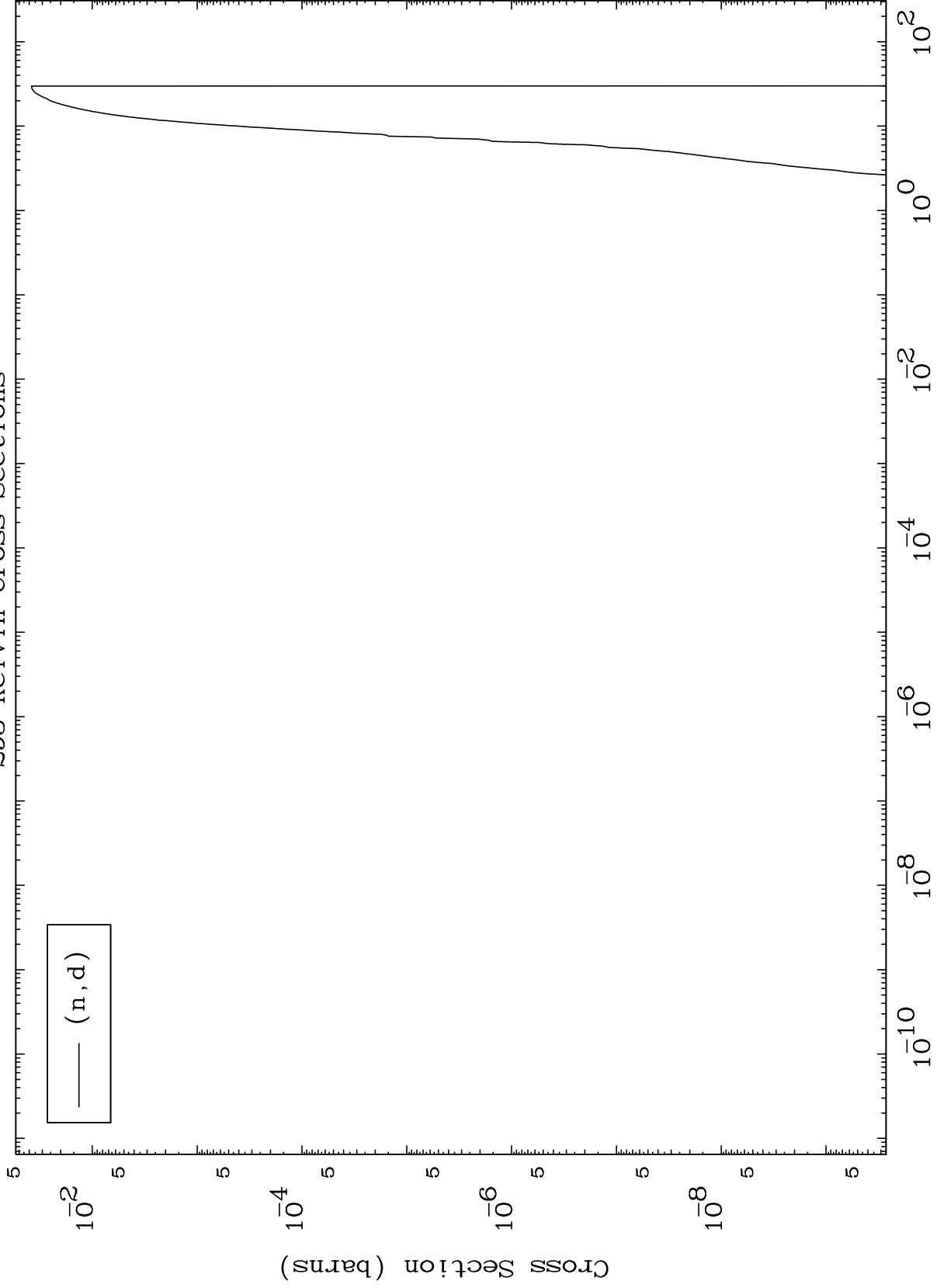
83-Bi-193m



MAT 8278

(n,d) Levels  
293 Kelvin Cross Sections

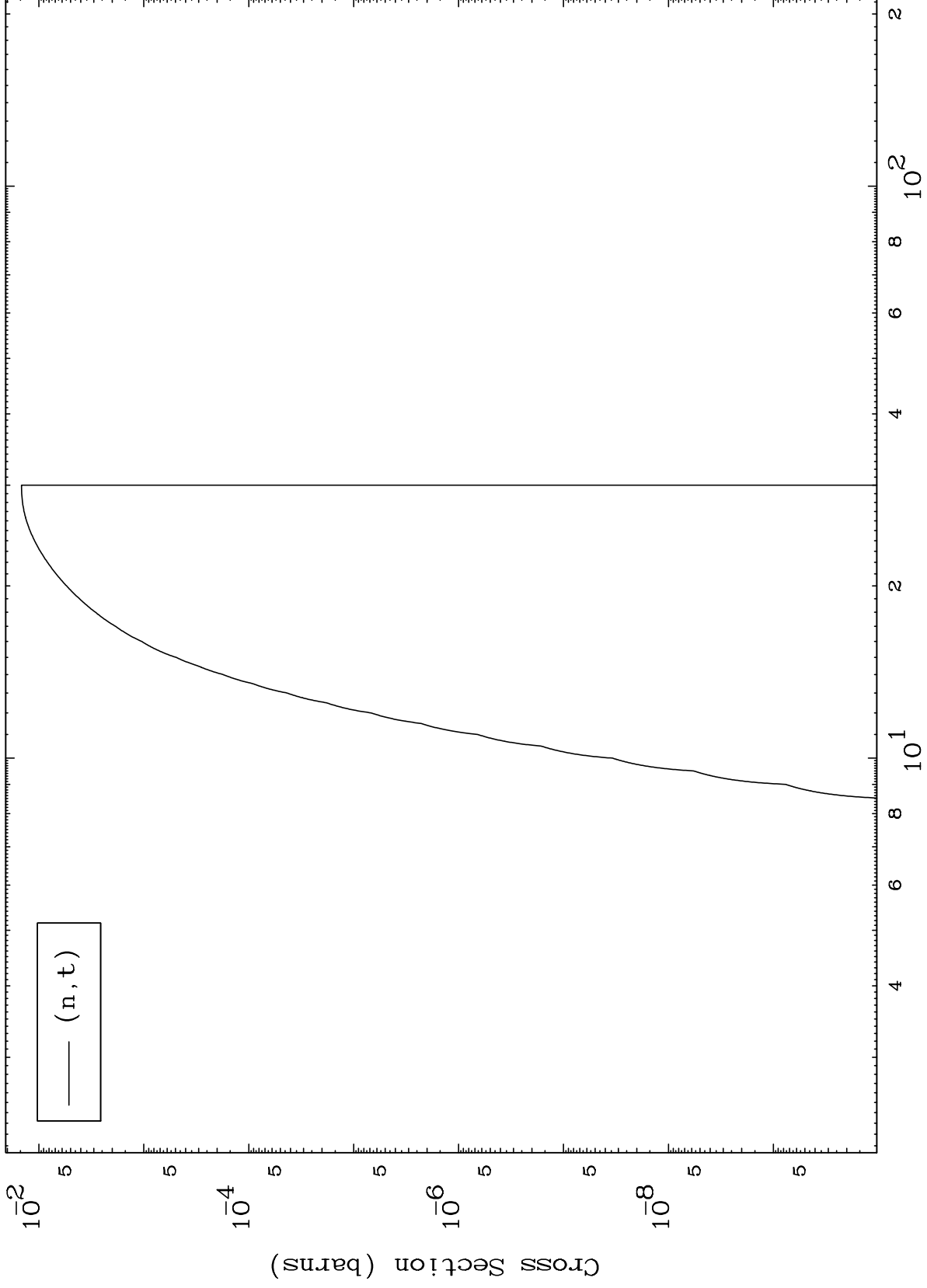
83-Bi-193m



MAT 8278

(n,t) Levels  
293 Kelvin Cross Sections

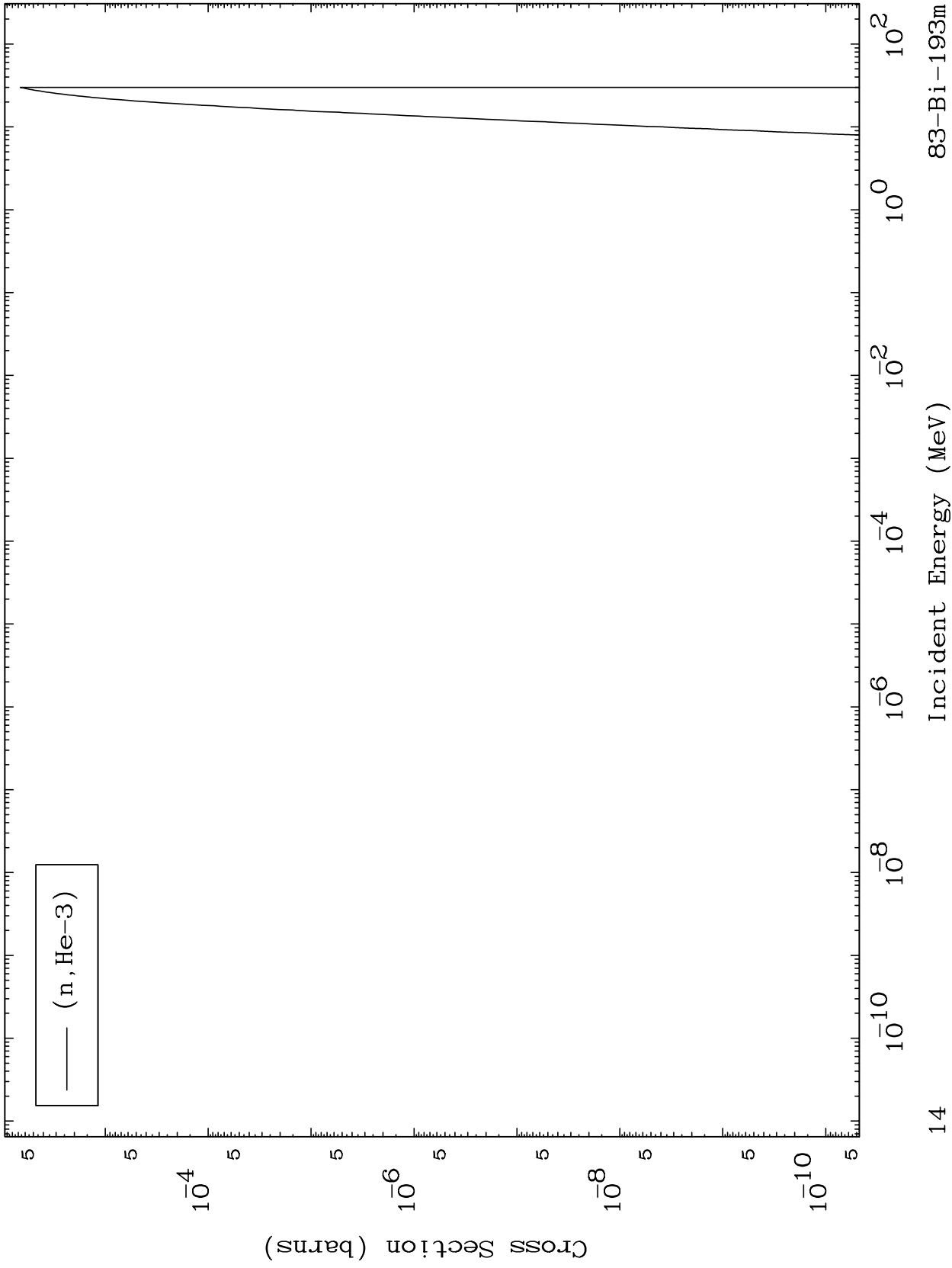
83-Bi-193m



MAT 8278

(n,He3) Levels  
293 Kelvin Cross Sections

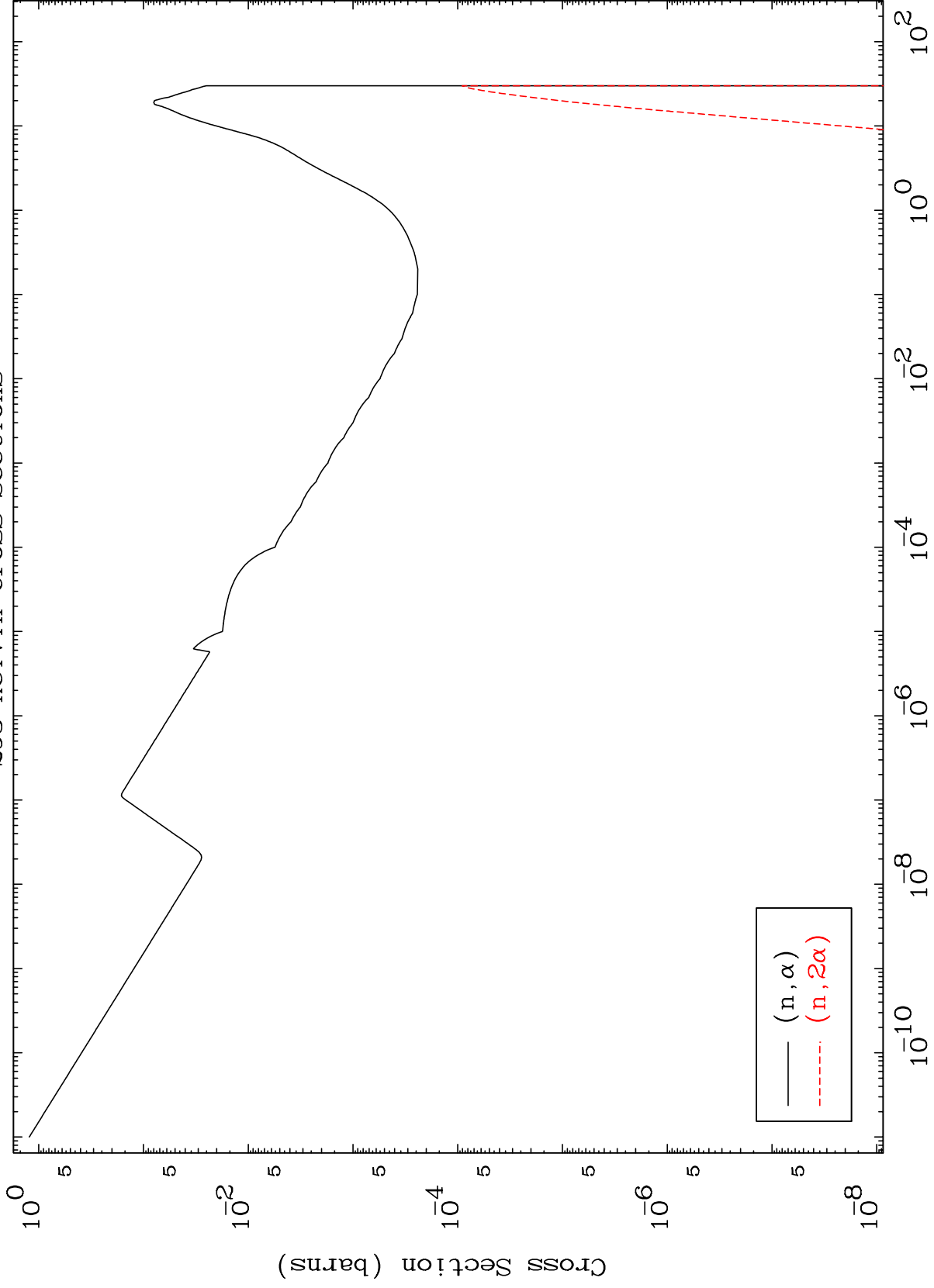
83-Bi-193m



MAT 8278

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

83-Bi-193m



15

Incident Energy (MeV)

83-Bi-193m

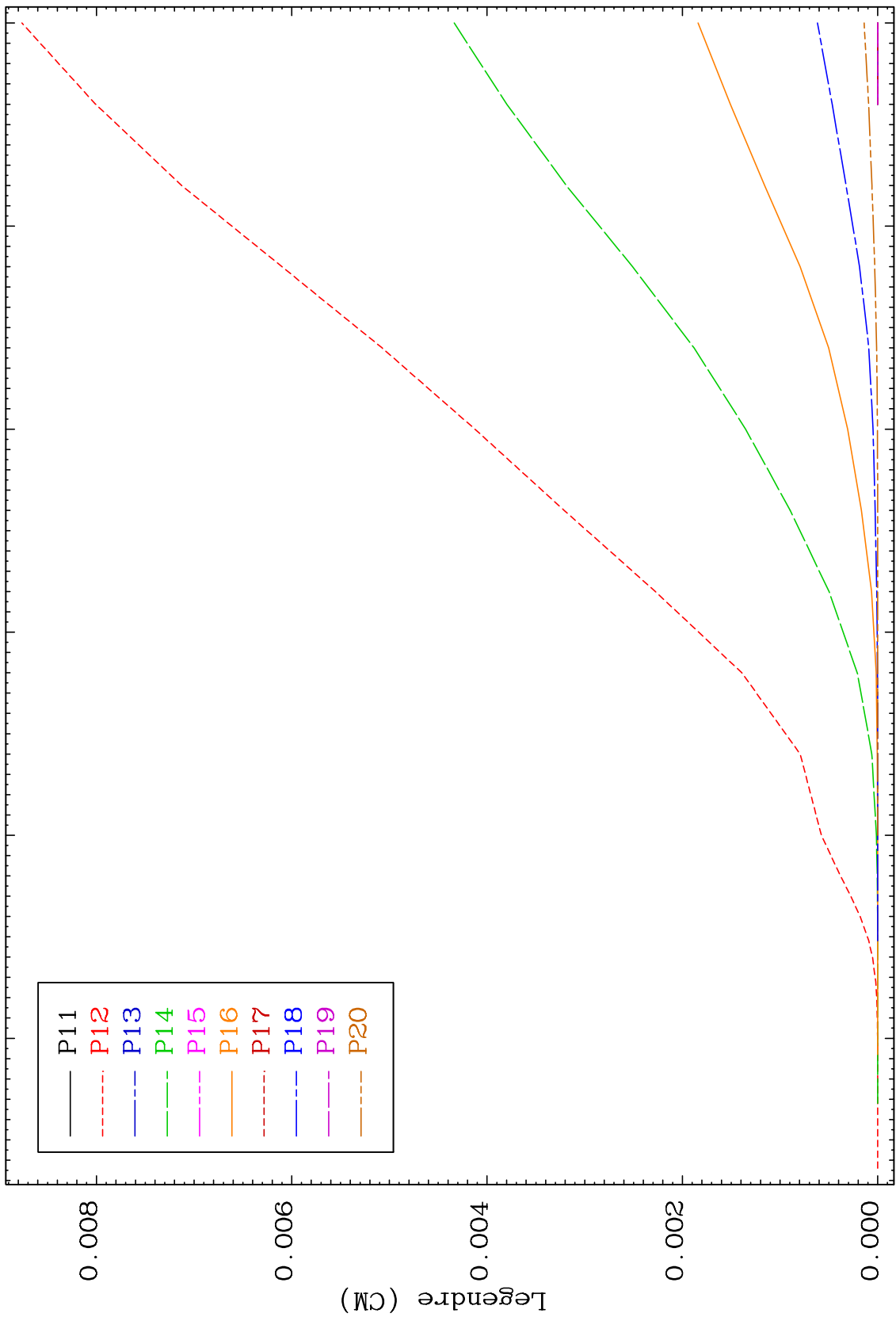




MAT 8278

Elastic Legendre Coefficients

83-Bi-193m



17

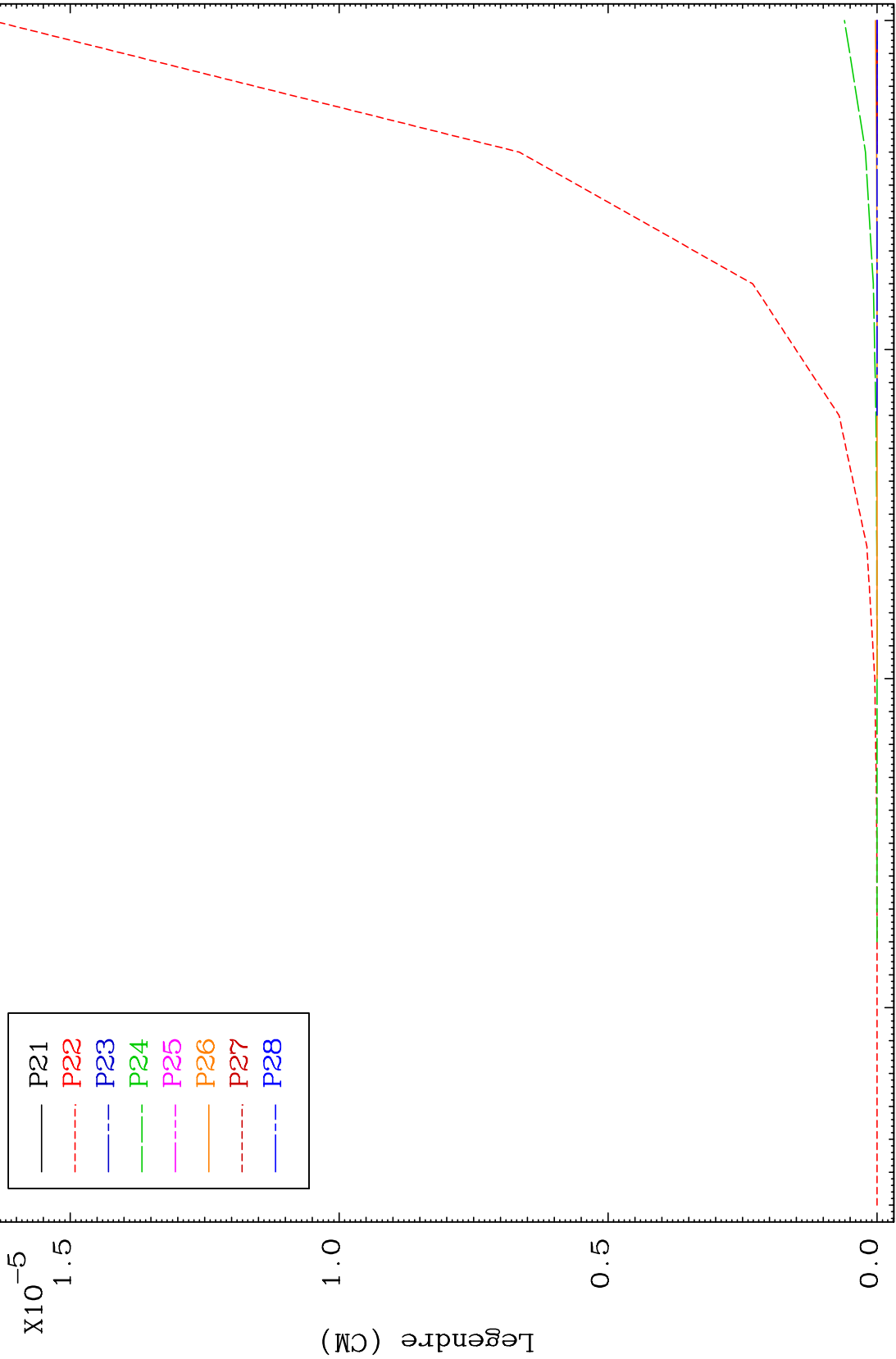
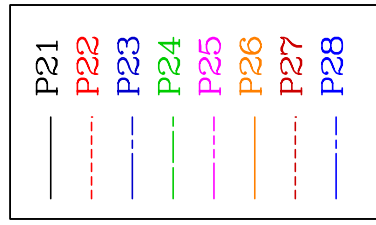
83-Bi-193m

Incident Energy (MeV)

MAT 8278

Elastic Legendre Coefficients

83-Bi-193m



18

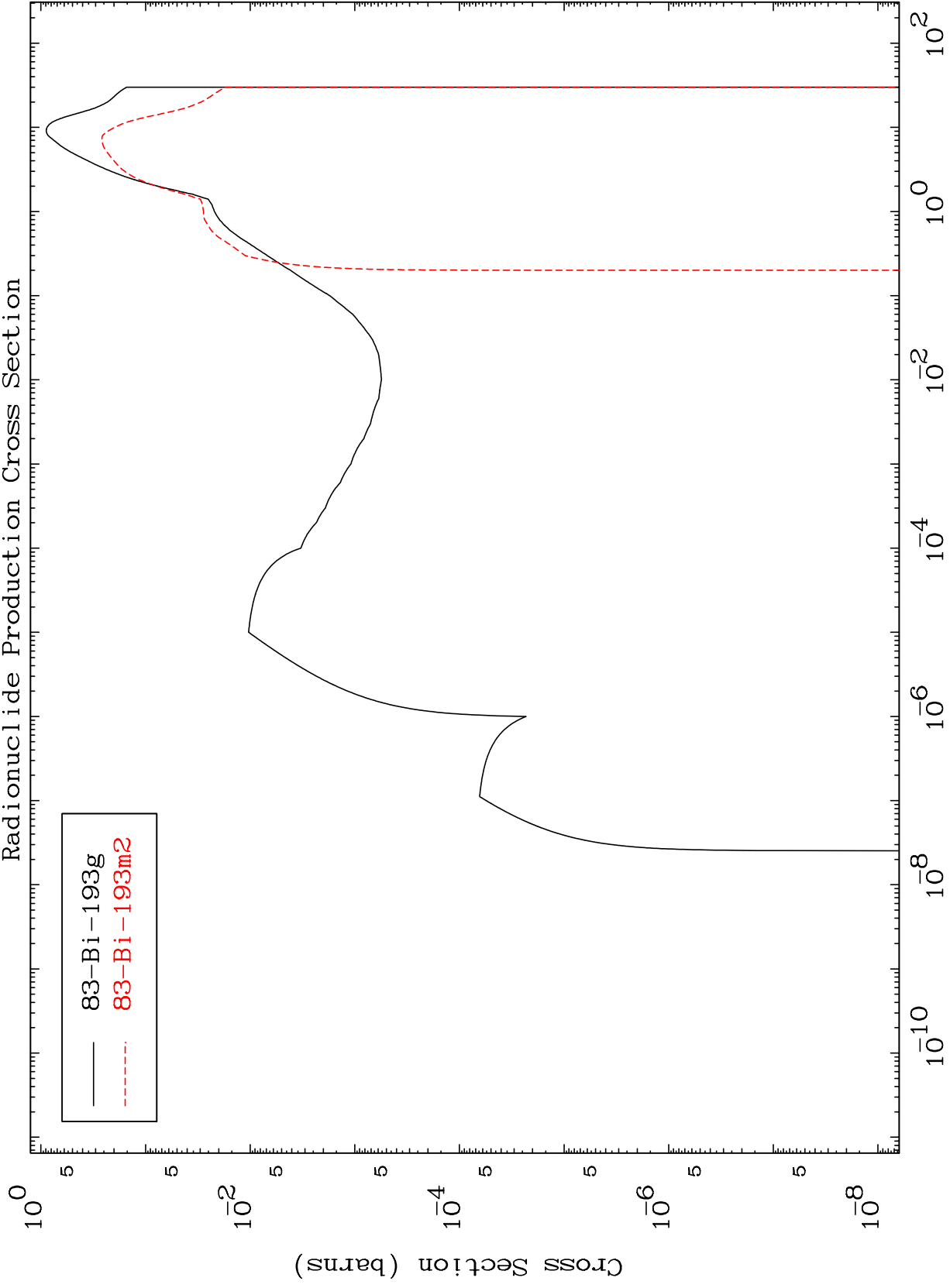
Incident Energy (MeV)

83-Bi-193m

MAT 8278

Inelastic  
Radionuclide Production Cross Section

83-Bi-193m

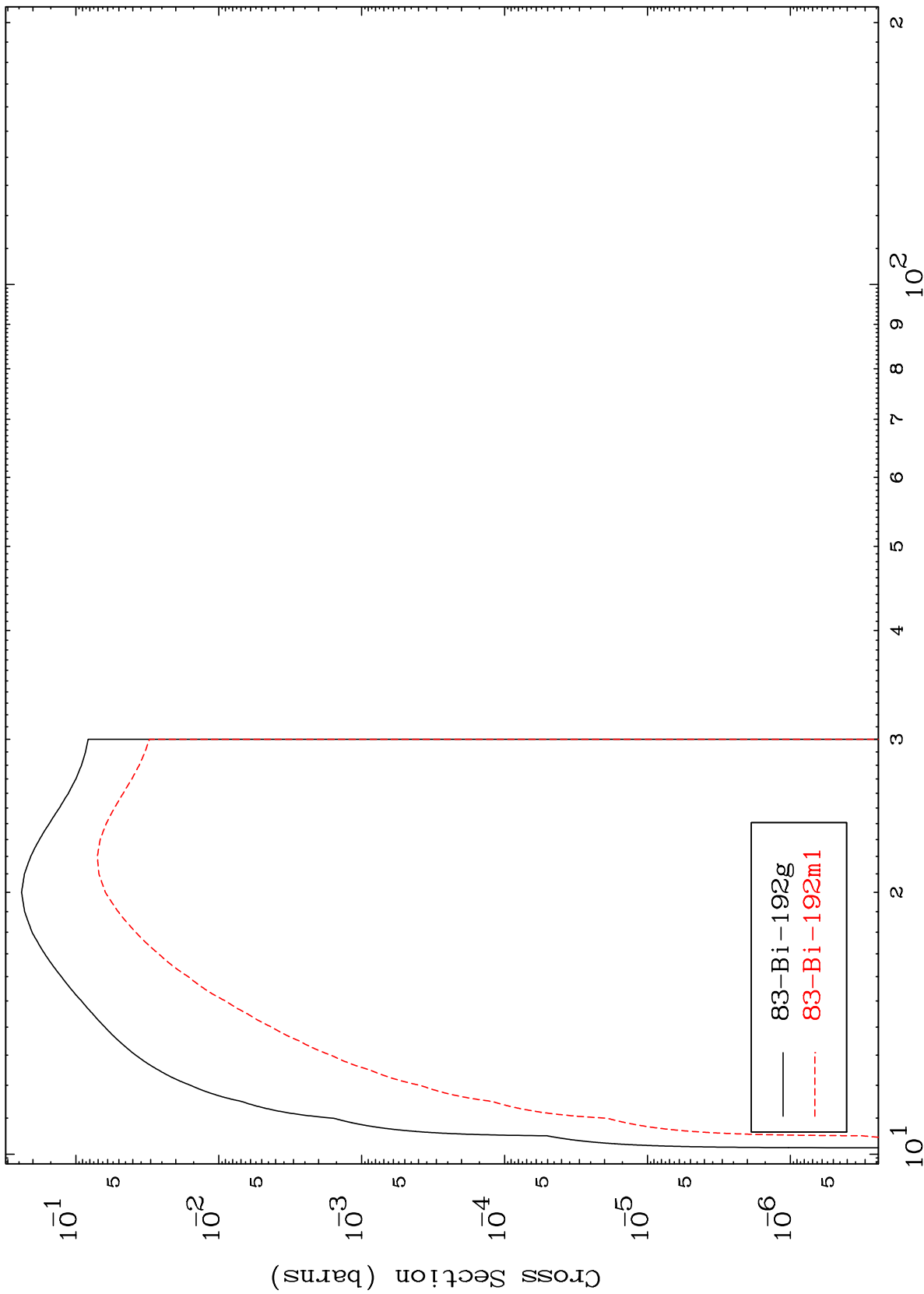


83-Bi-193g  
83-Bi-193m2

MAT 8278

83-Bi-193m

Radionuclide Production Cross Section  
(n,2n)



83-Bi-193m

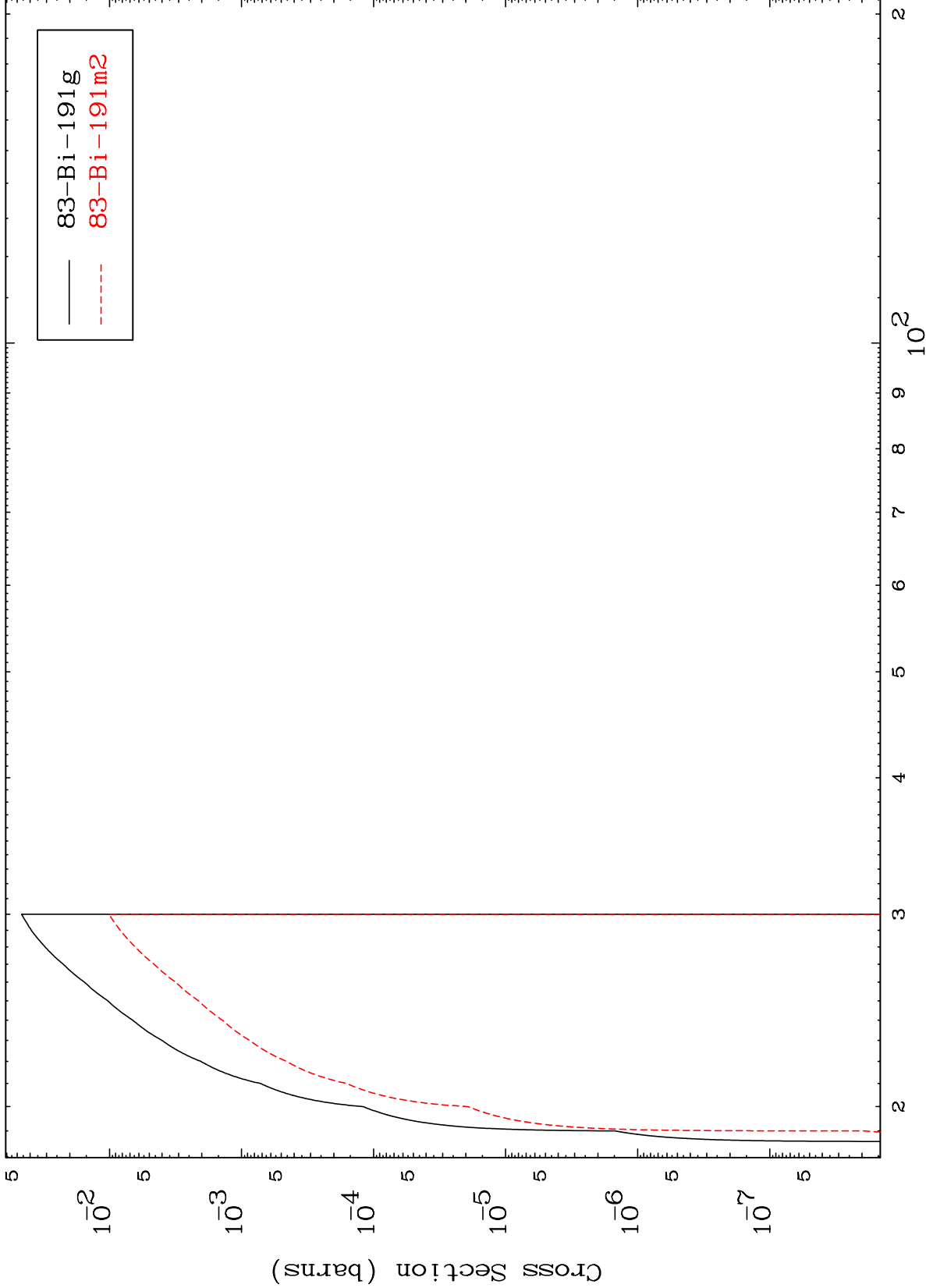
Incident Energy (MeV)

MAT 8278

(n,3n)

83-Bi-193m

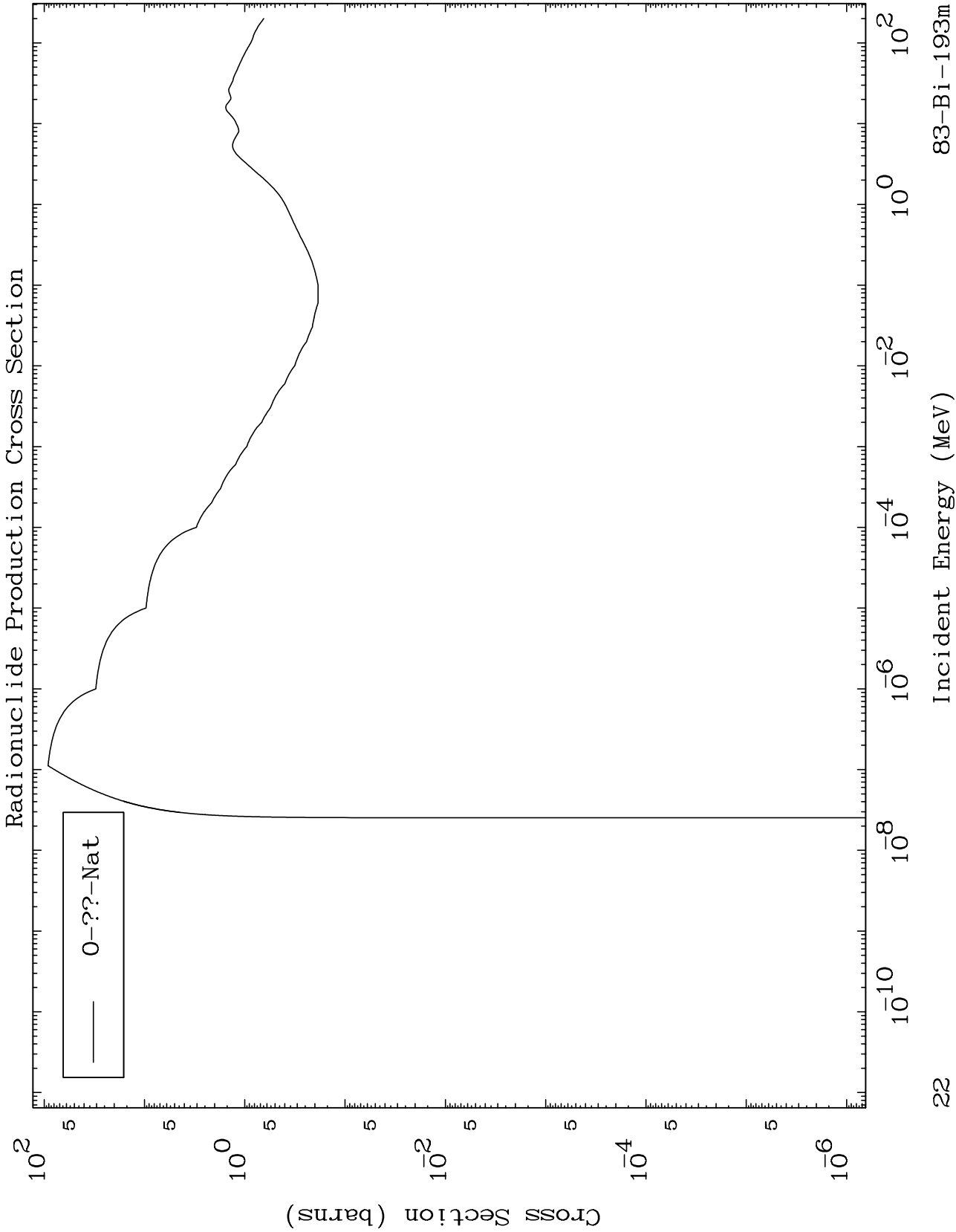
Radionuclide Production Cross Section



MAT 8278

Fission

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

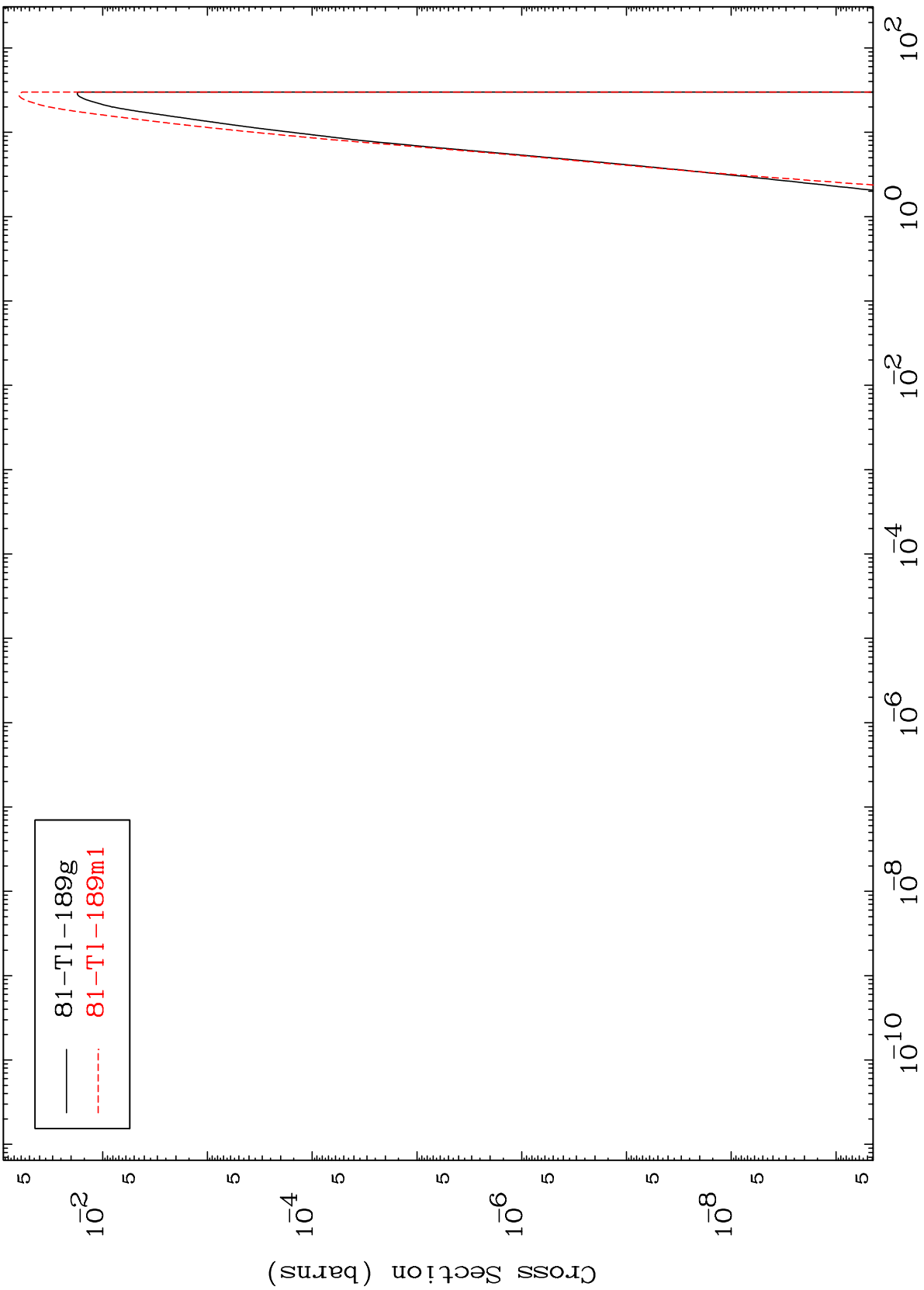


MAT 8278

$(n, n') \alpha$

83-Bi-193m

Radionuclide Production Cross Section



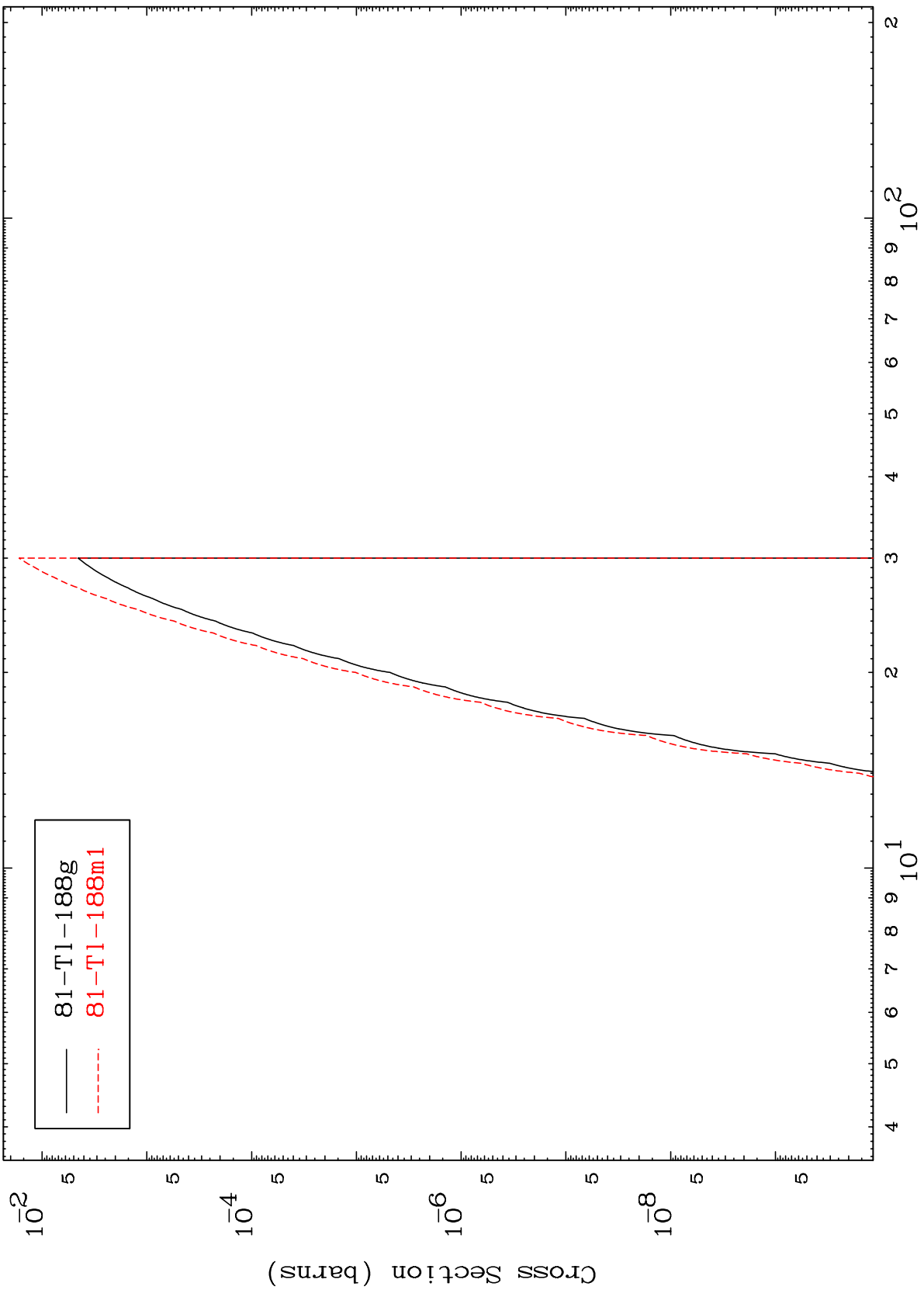


MAT 8278

$(n,2n) \alpha$

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

Radionuclide Production Cross Section



81-Tl-188g  
81-Tl-188m1

24

Incident Energy (MeV)

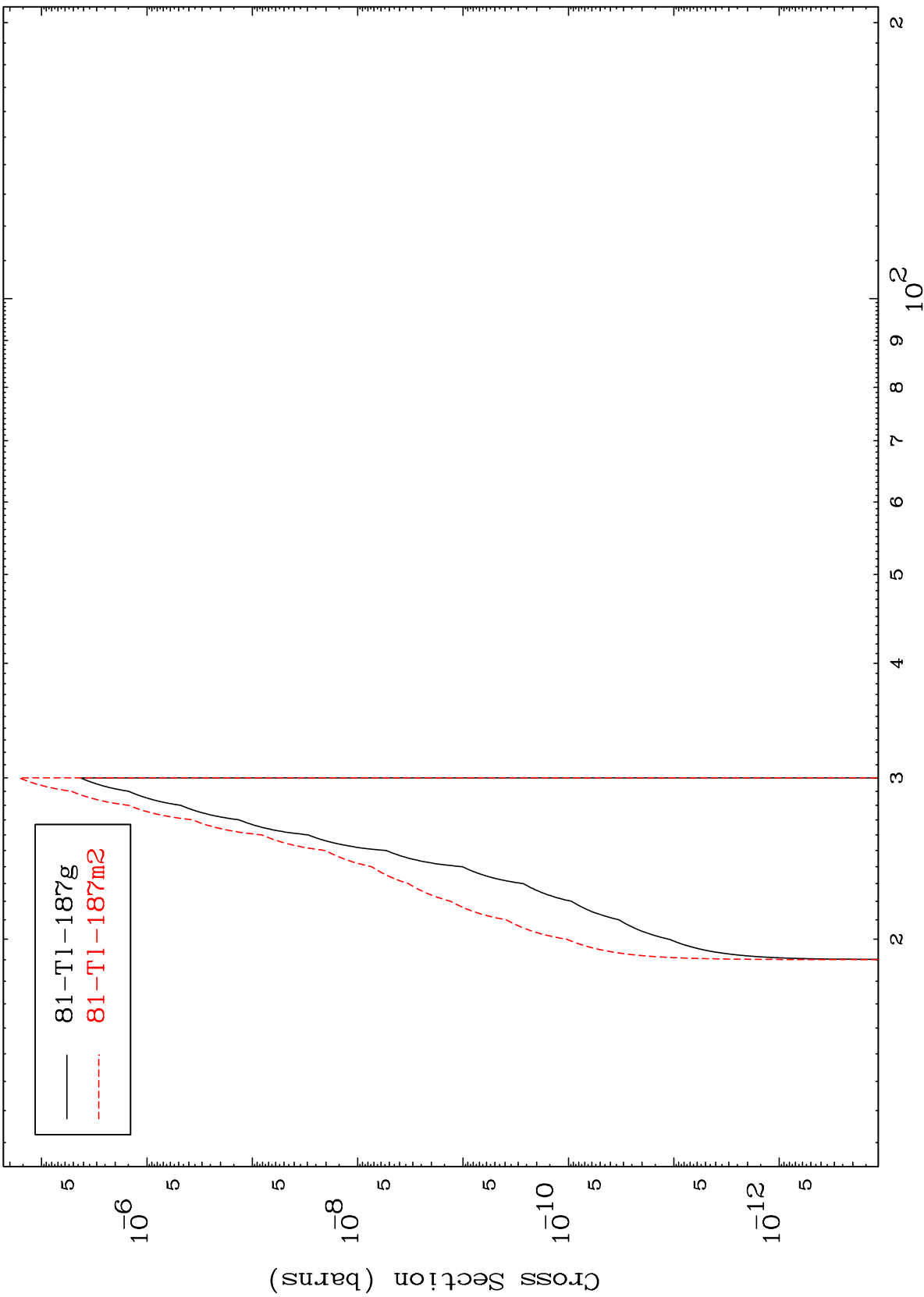
$^{83}\text{Bi}-193\text{m}$

MAT 8278

(n,3n)  $\alpha$

83-Bi-193m

Radionuclide Production Cross Section



25

Incident Energy (MeV)

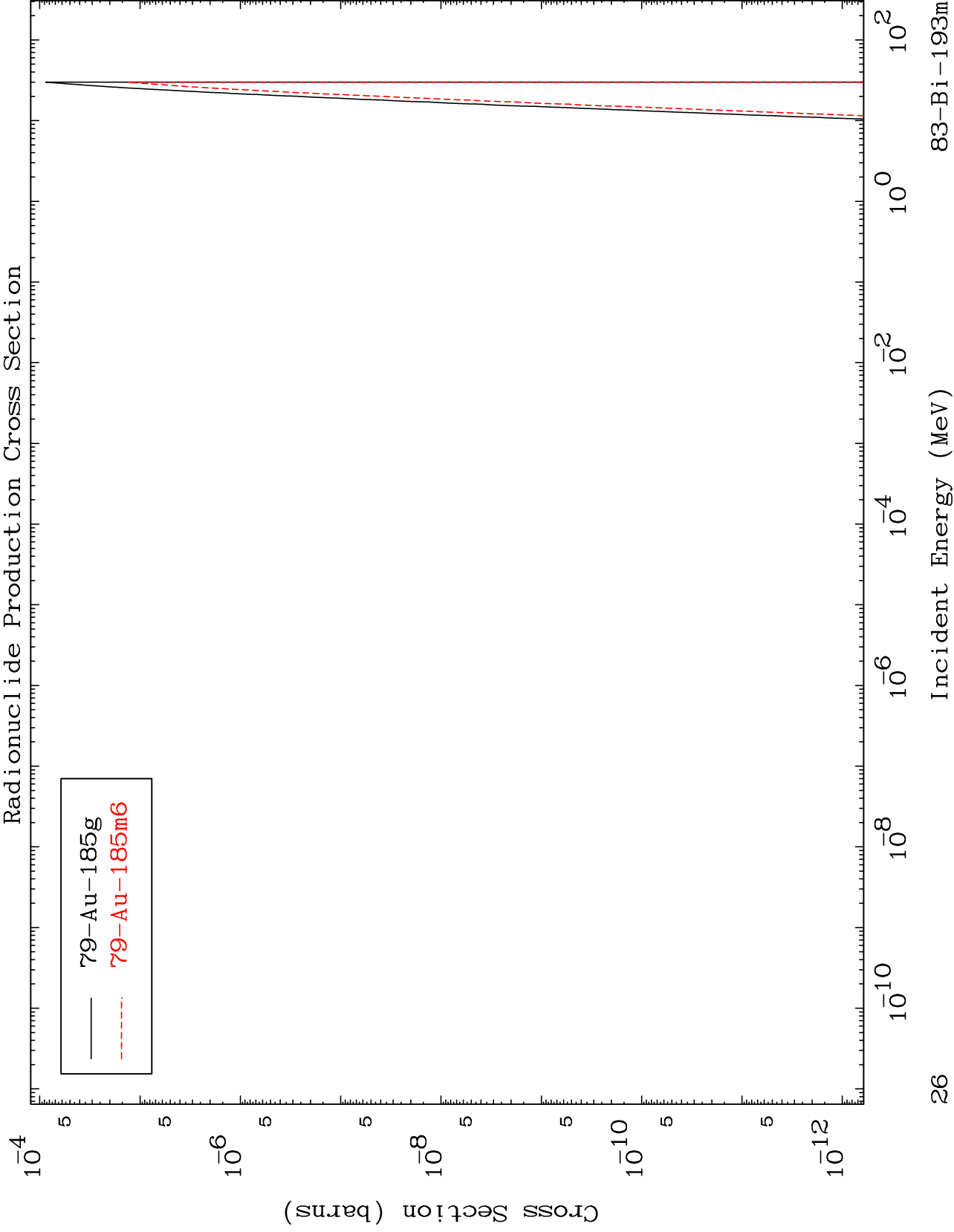
83-Bi-193m

MAT 8278

(n,n') 2 $\alpha$

83-Bi-193m

Radionuclide Production Cross Section



26

Incident Energy (MeV)

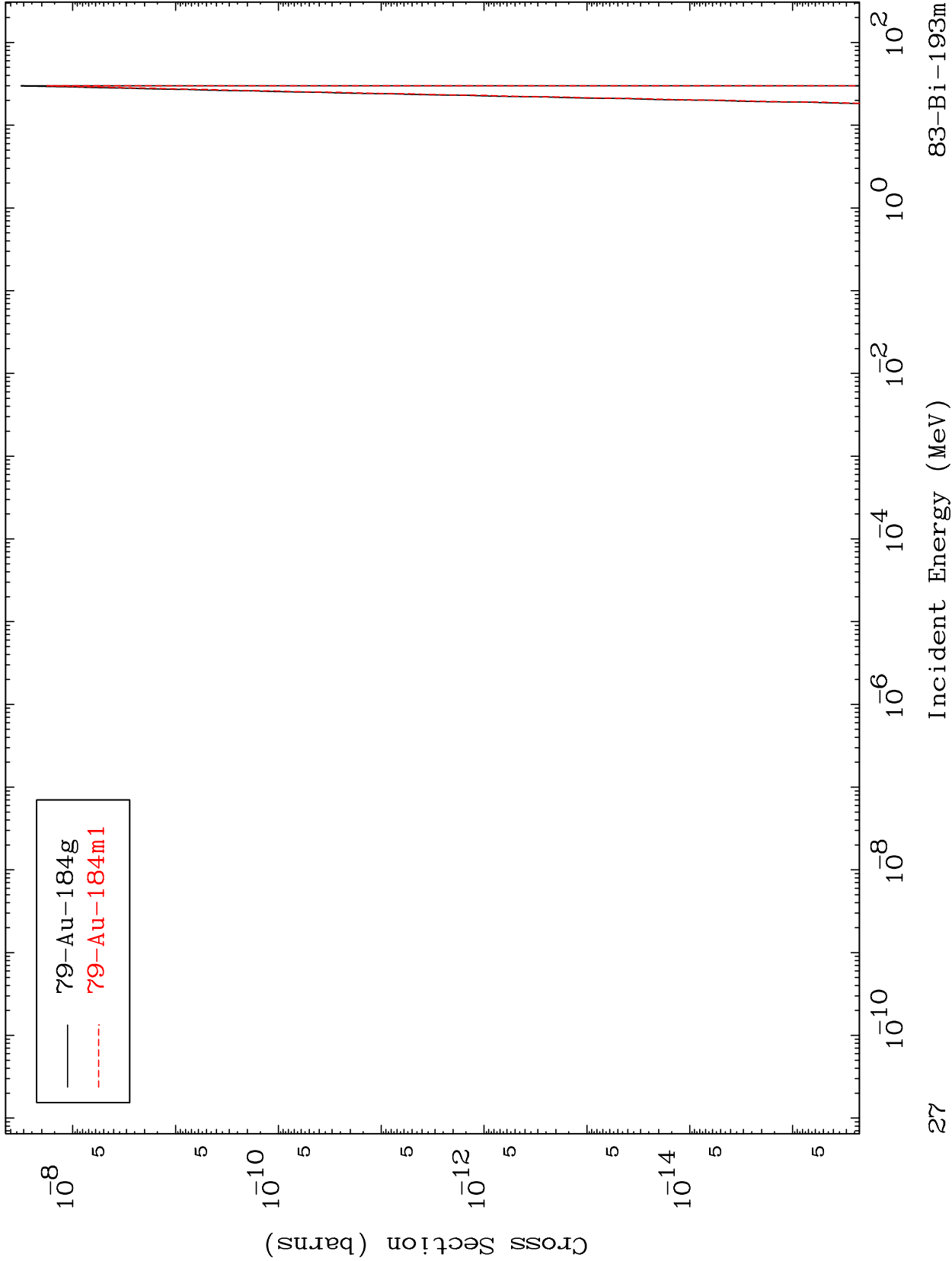
83-Bi-193m

MAT 8278

(n,2n) 2 $\alpha$

83-Bi-193m

Radionuclide Production Cross Section

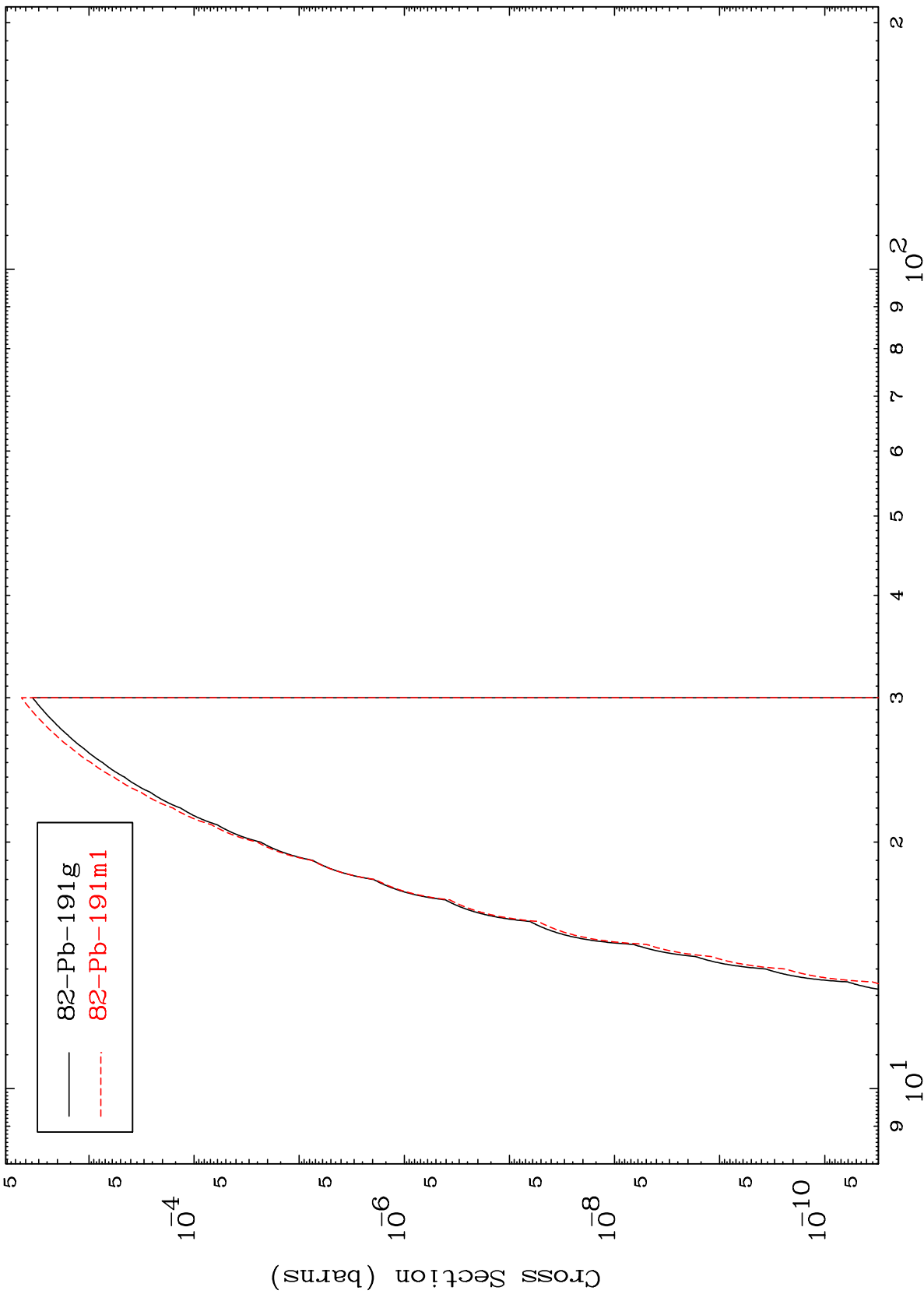


MAT 8278

(n,n') d

83-Bi-193m

Radionuclide Production Cross Section



28

Incident Energy (MeV)

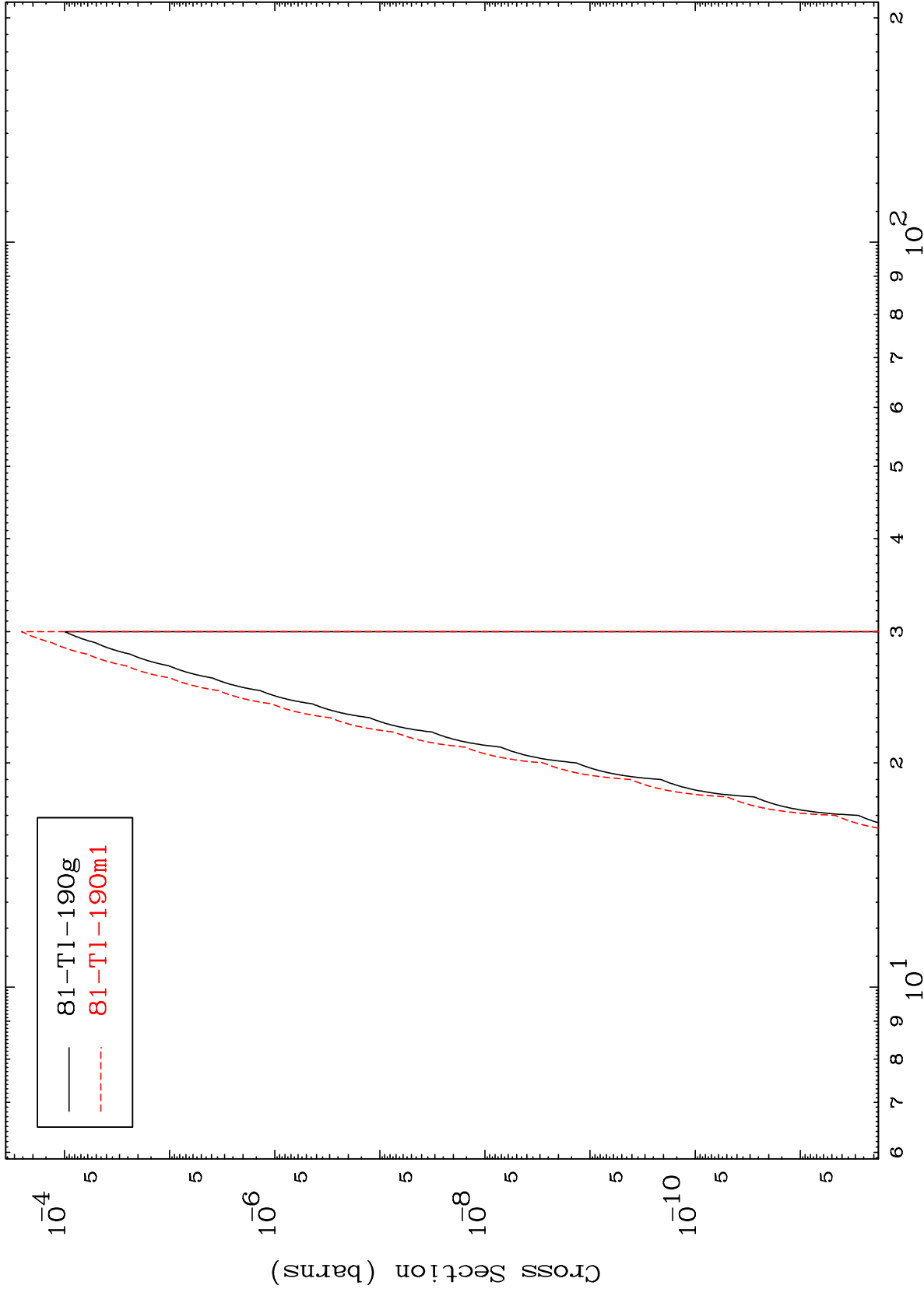
83-Bi-193m

MAT 8278

(n,n') He-3

83-Bi-193m

Radionuclide Production Cross Section



29

Incident Energy (MeV)

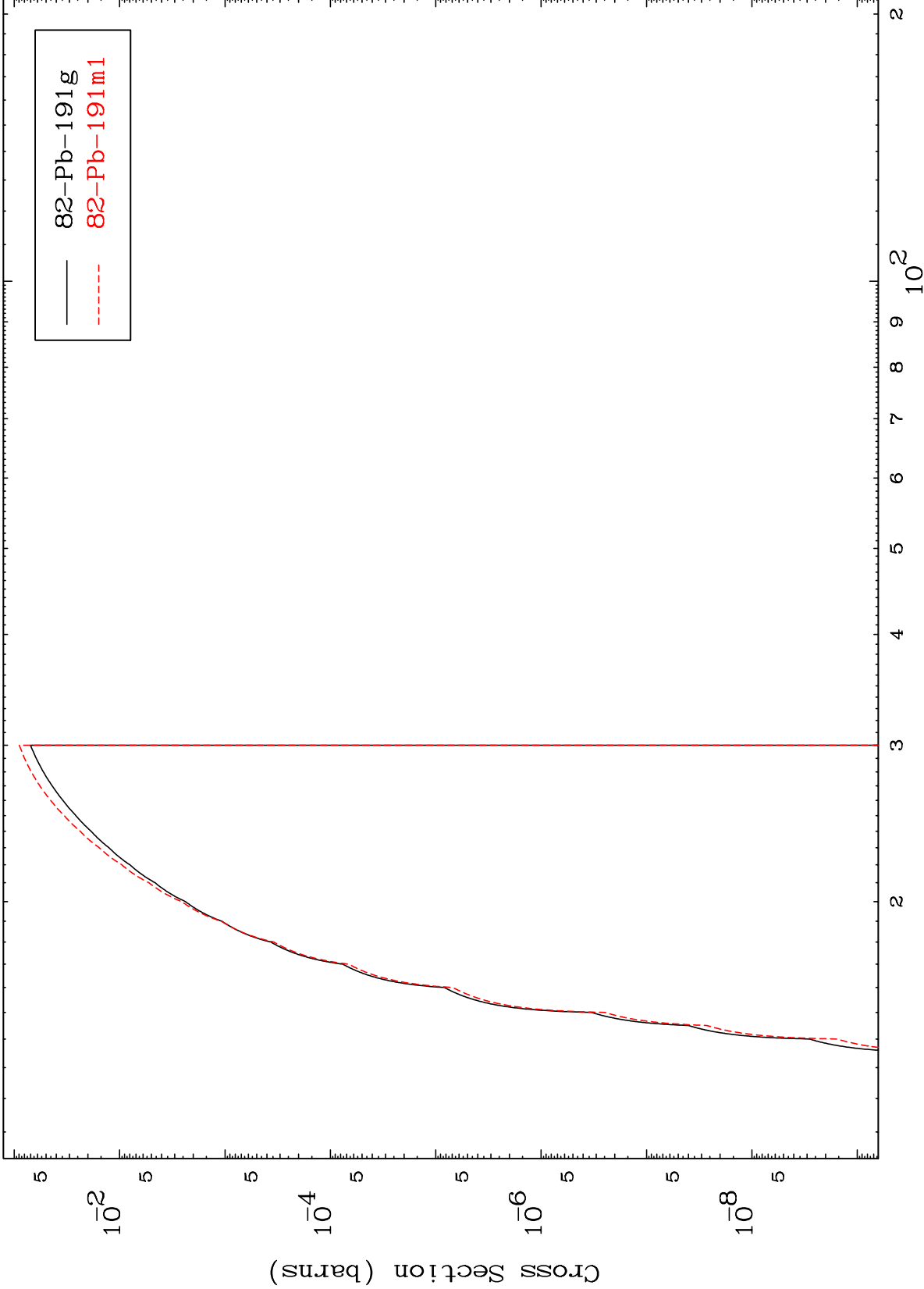
83-Bi-193m

MAT 8278

(n,2n) p

83-Bi-193m

Radionuclide Production Cross Section



30

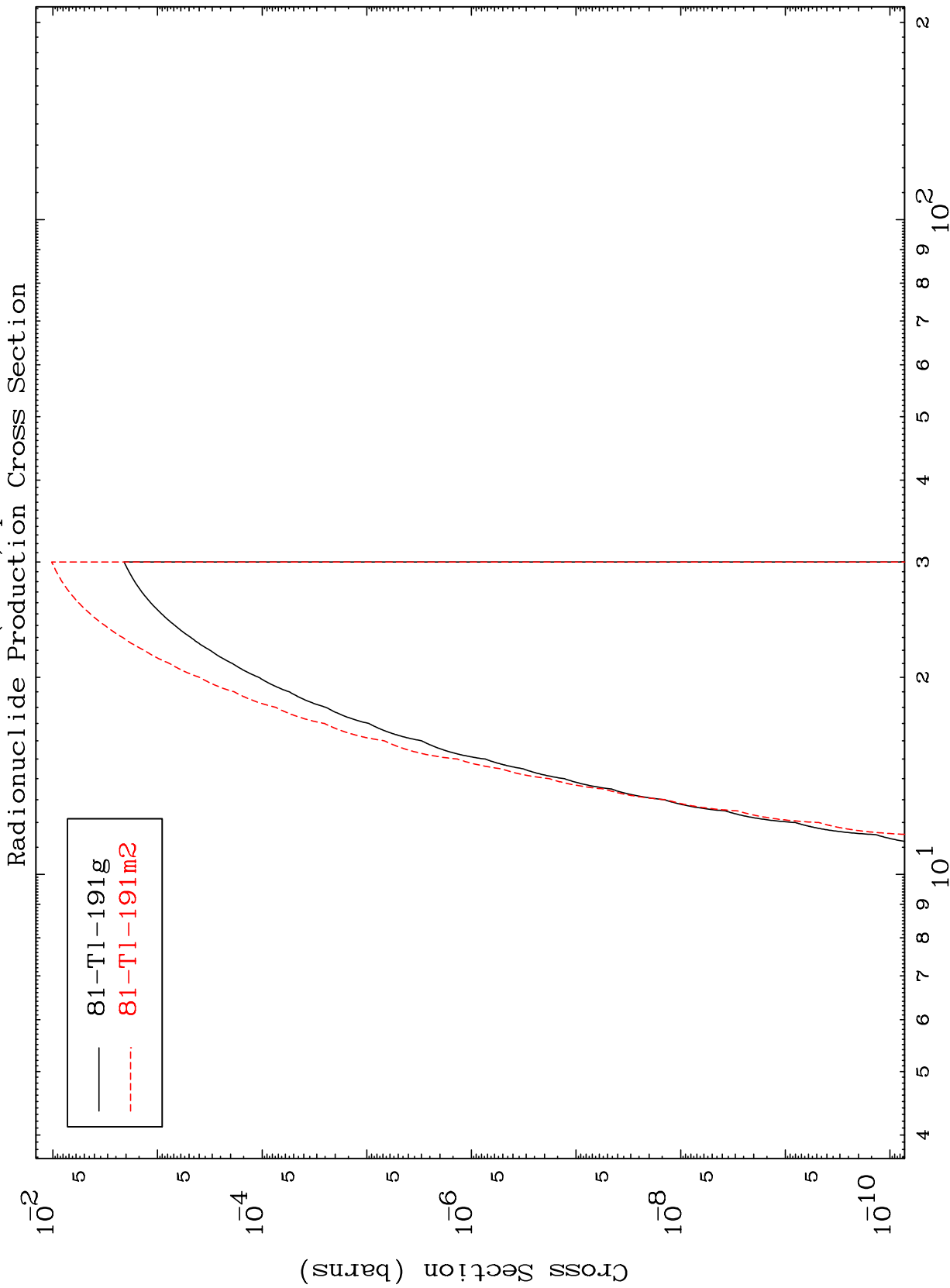
Incident Energy (MeV)

83-Bi-193m

MAT 8278

(n,2n) p

83-Bi-193m



81-Tl-191g  
81-Tl-191m2

Incident Energy (MeV)

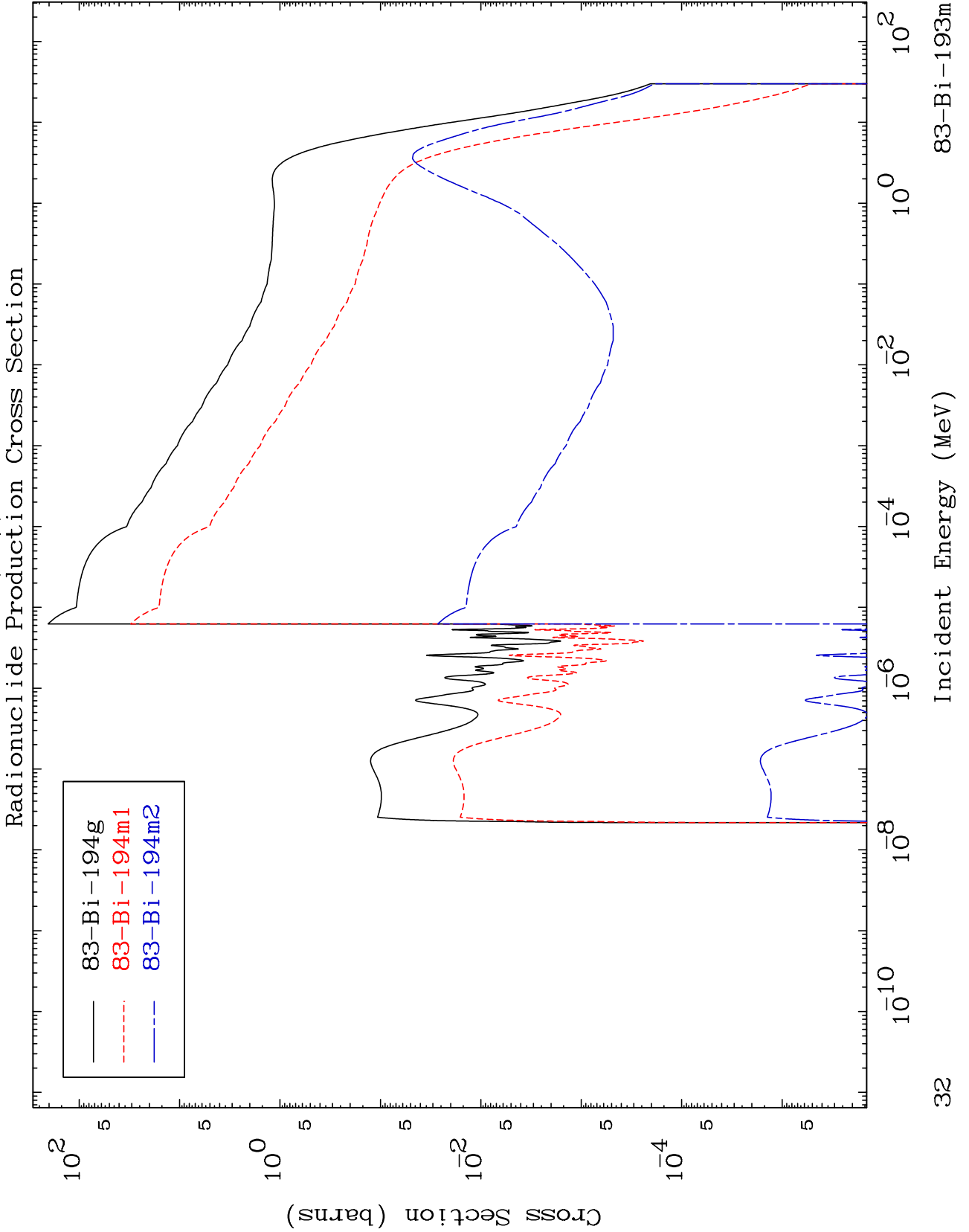
83-Bi-193m

31



MAT 8278

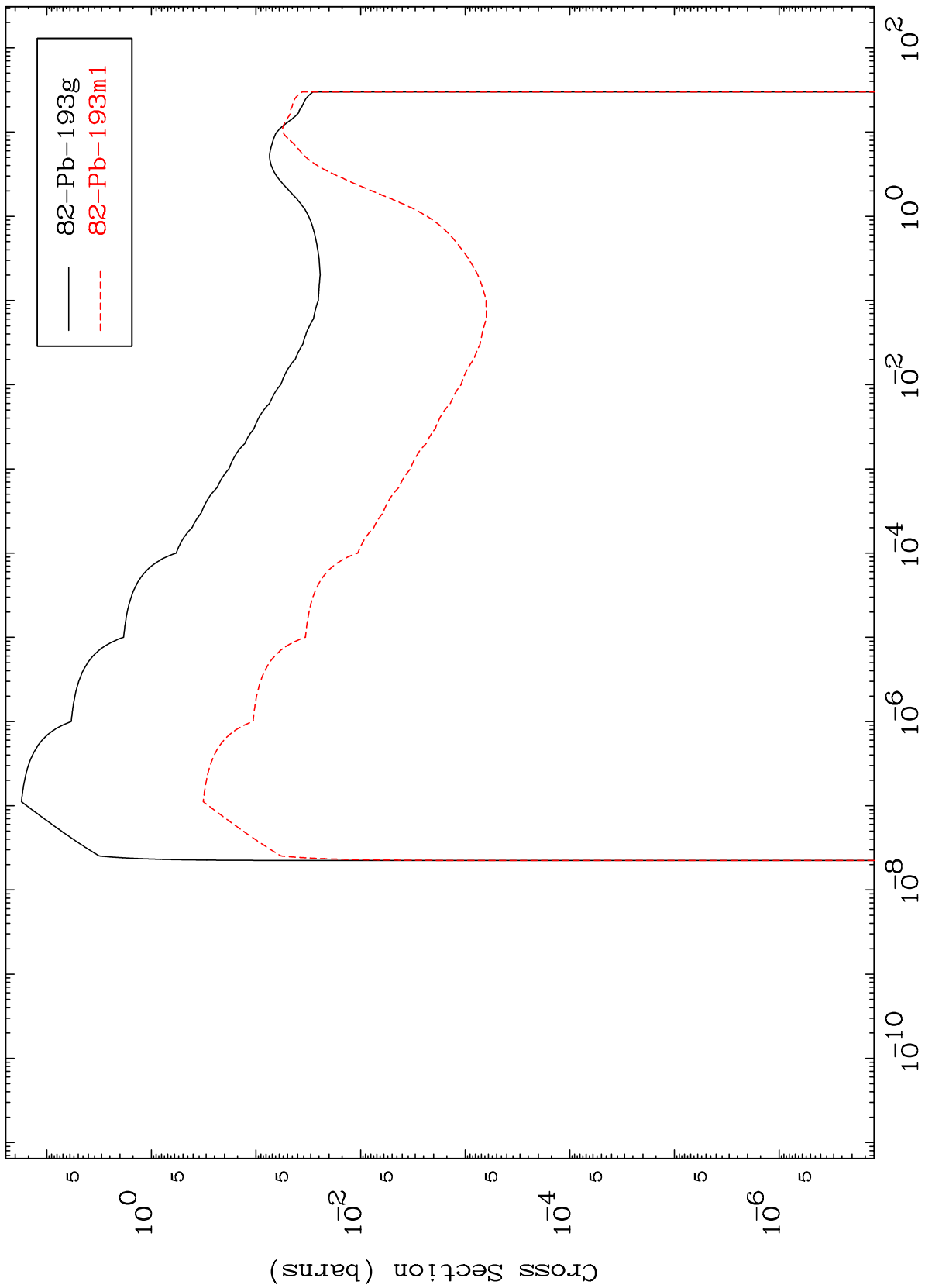
$^{83}\text{Bi}-193\text{m}$



MAT 8278

83-Bi-193m

(n,p)  
Radionuclide Production Cross Section



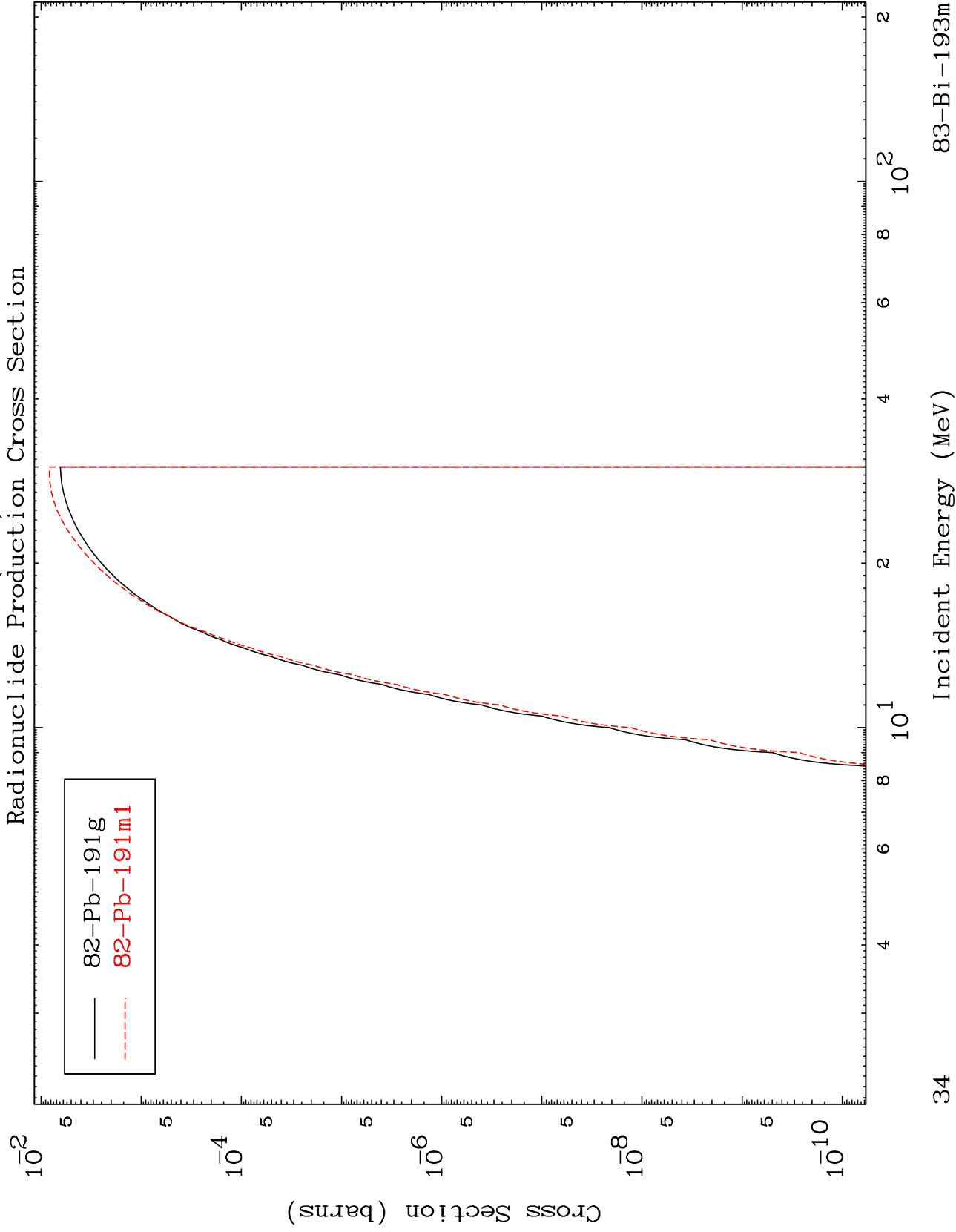
33

83-Bi-193m

Incident Energy (MeV)

MAT 8278

83-Bi-193m

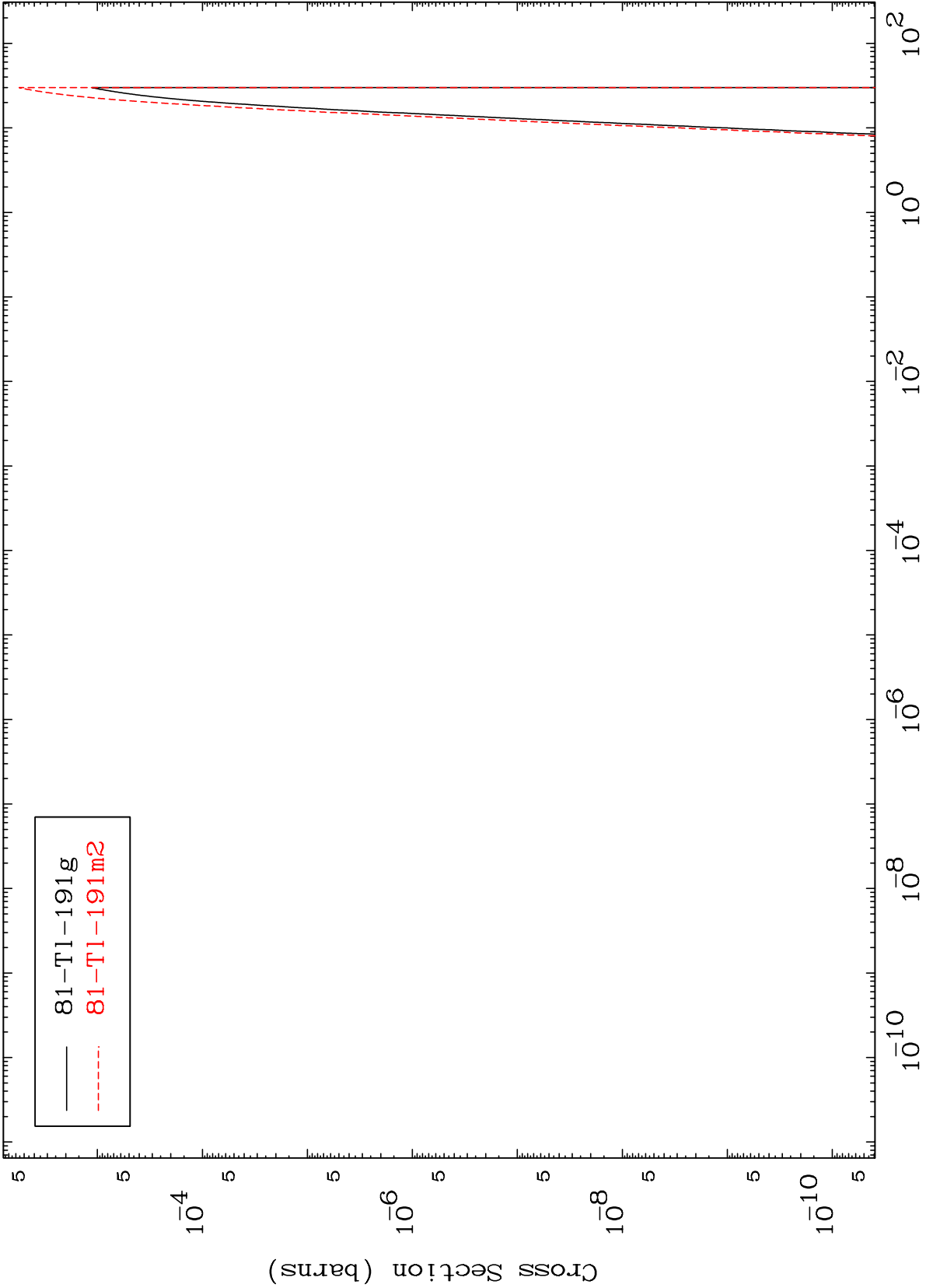


MAT 8278

(n,He-3)

83-Bi-193m

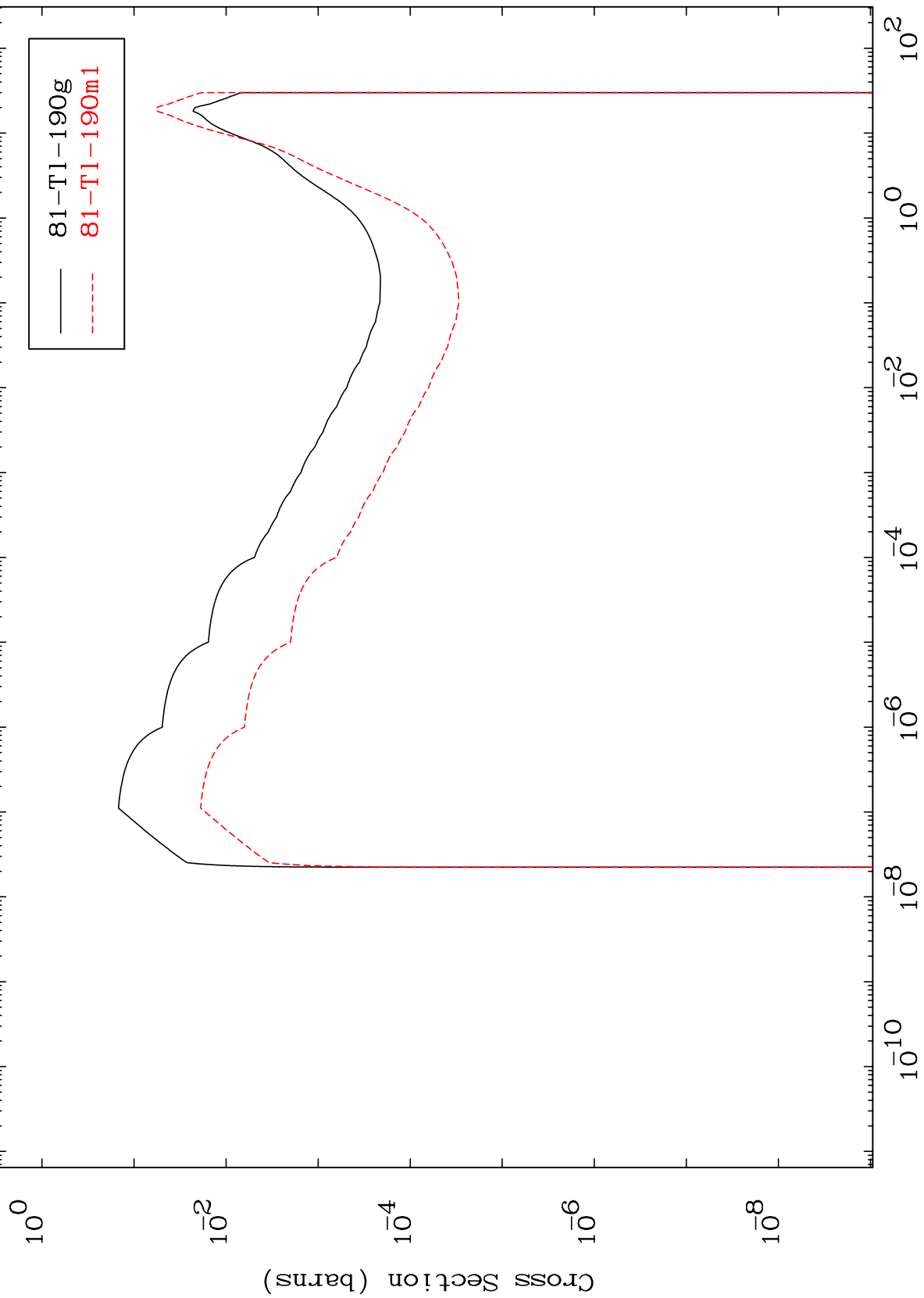
Radionuclide Production Cross Section



MAT 8278

83-Bi-193m

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



36

83-Bi-193m

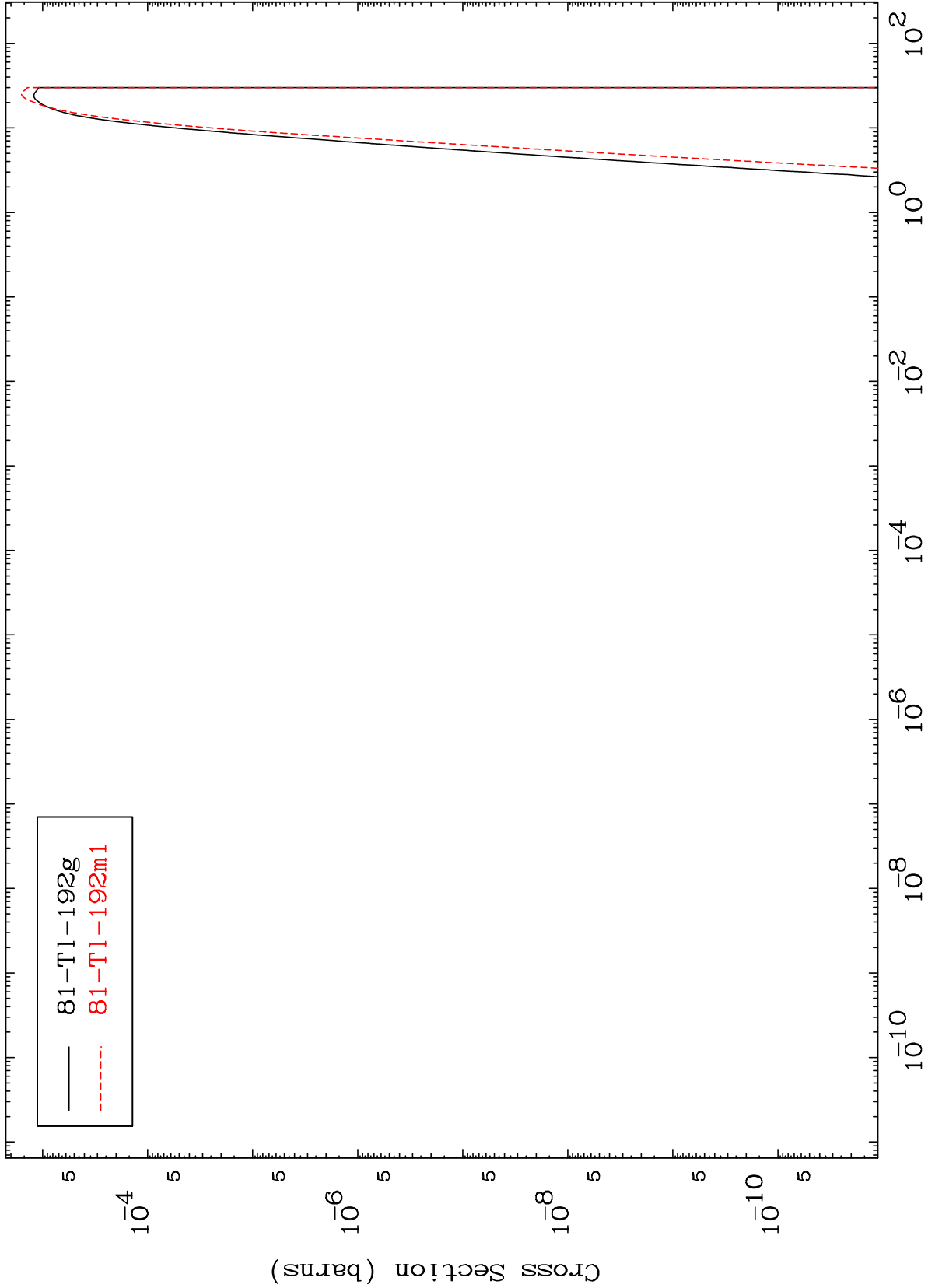
Incident Energy (MeV)

MAT 8278

(n,2p)

83-Bi-193m

Radionuclide Production Cross Section

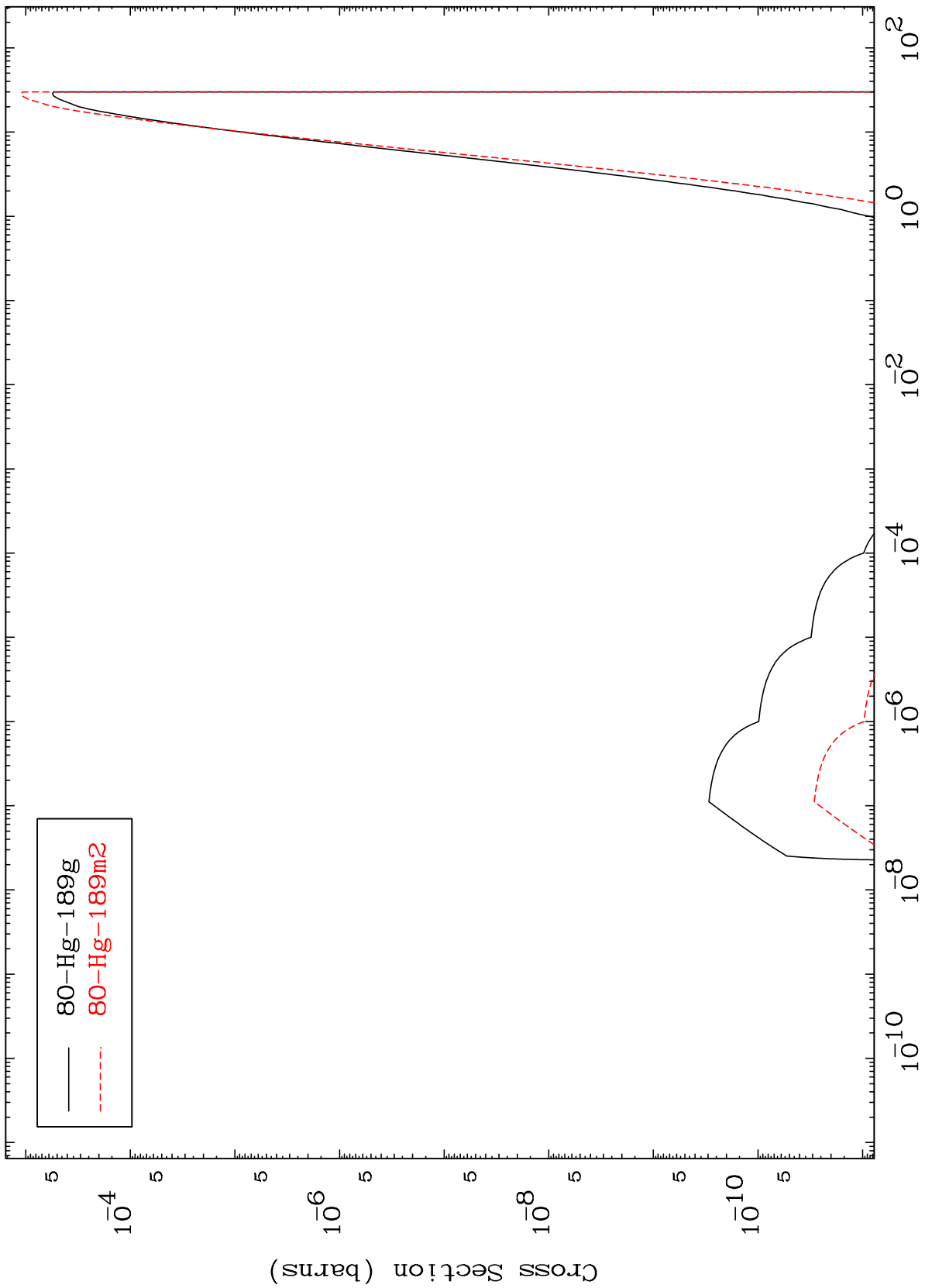


MAT 8278

(n,p)  $\alpha$

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

Radionuclide Production Cross Section



38

Incident Energy (MeV)

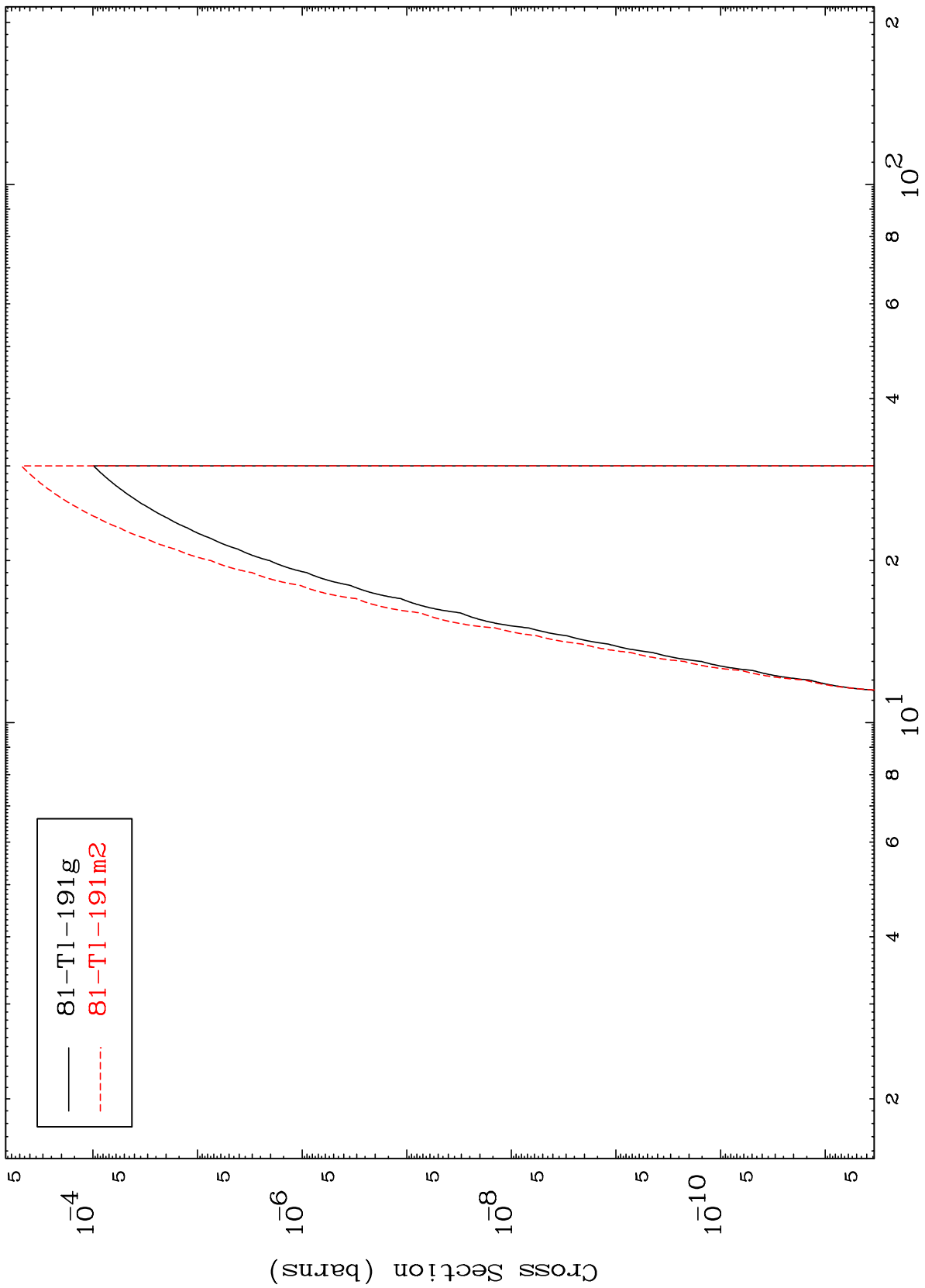
<sup>83</sup>Bi-193m

MAT 8278

(n,p) d

83-Bi-193m

Radionuclide Production Cross Section



39

Incident Energy (MeV)

83-Bi-193m

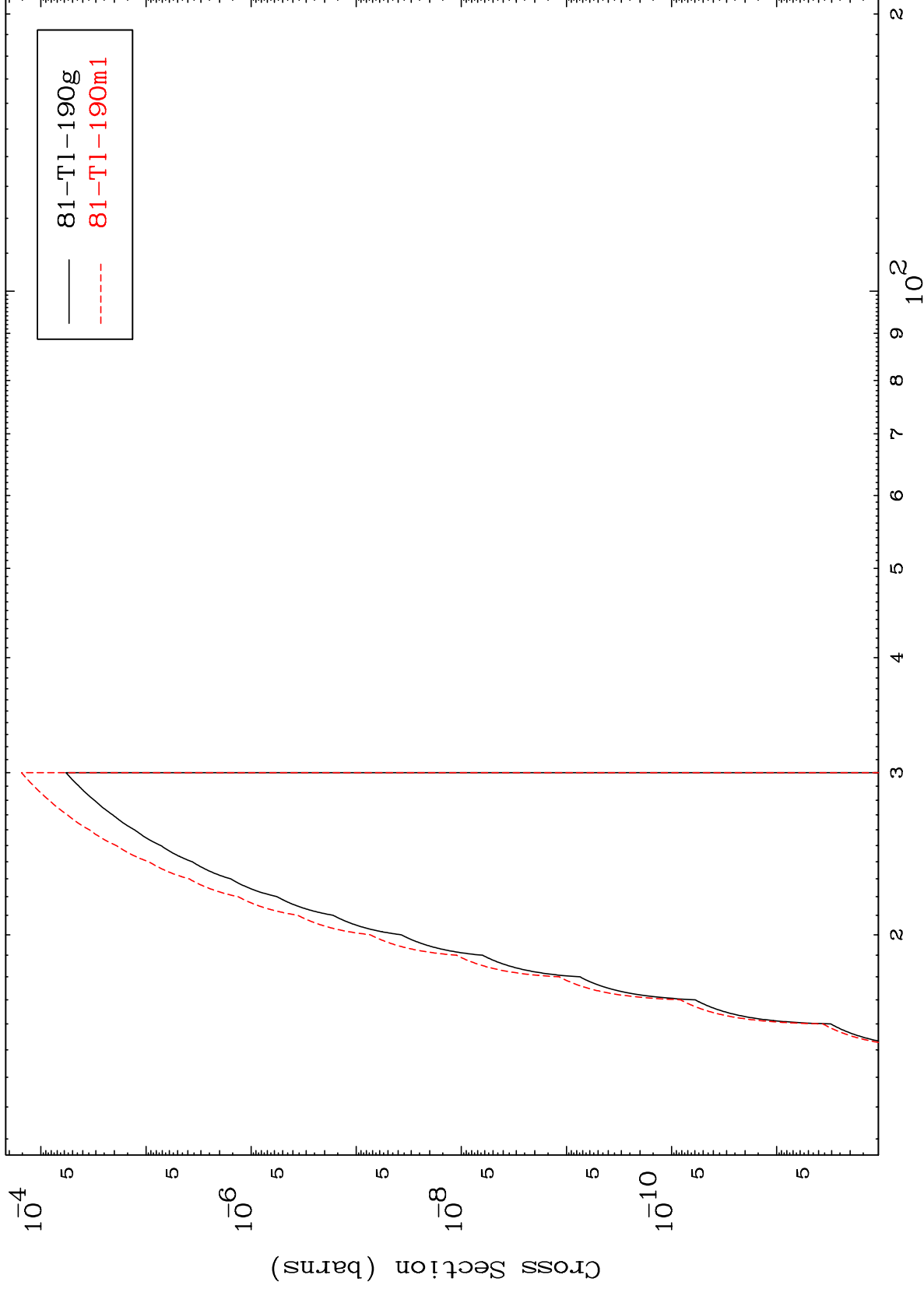


MAT 8278

(n,p) t

83-Bi-193m

Radionuclide Production Cross Section



40

Incident Energy (MeV)

83-Bi-193m