

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

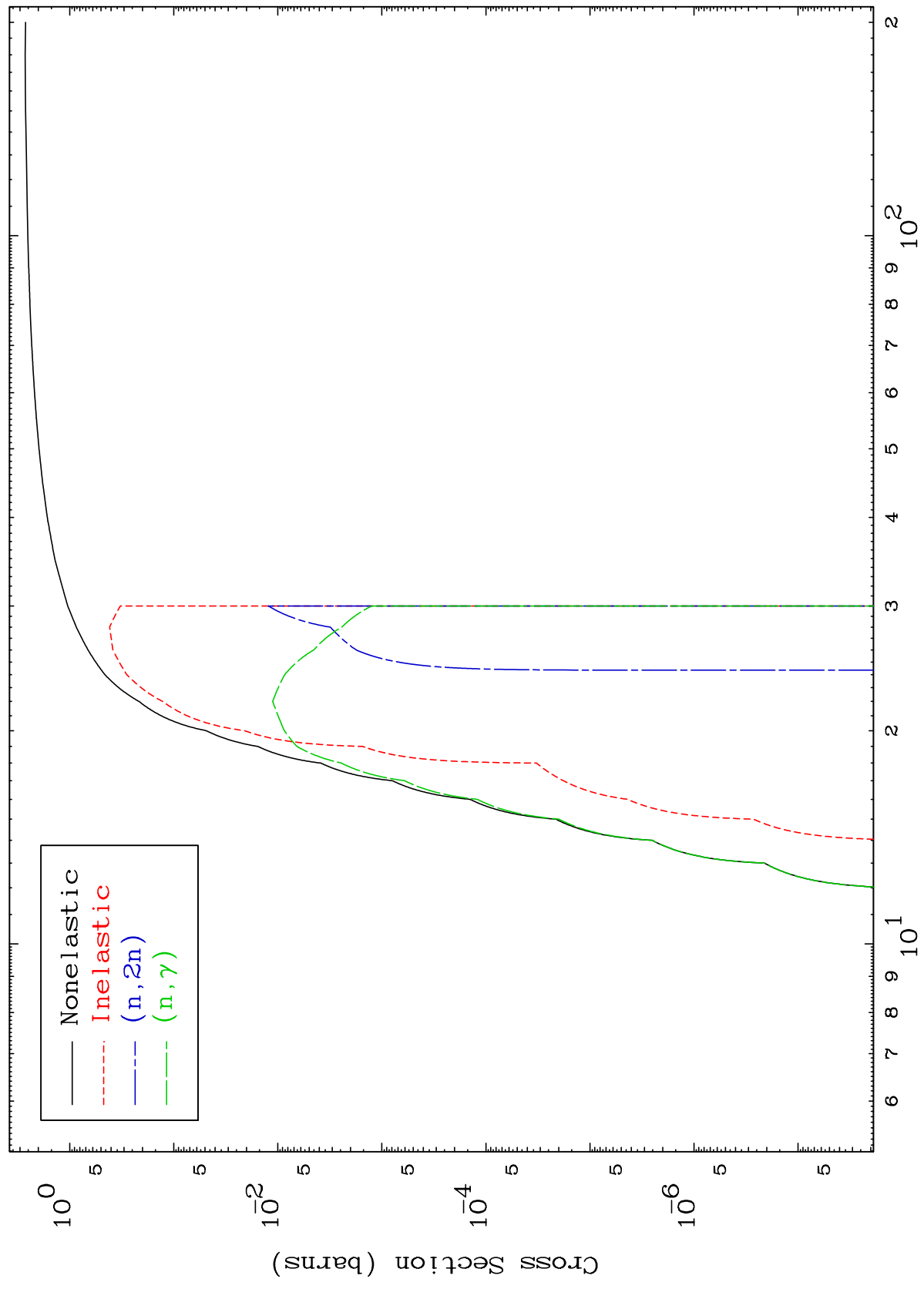
Press Mouse Button to Start

MAT 7999

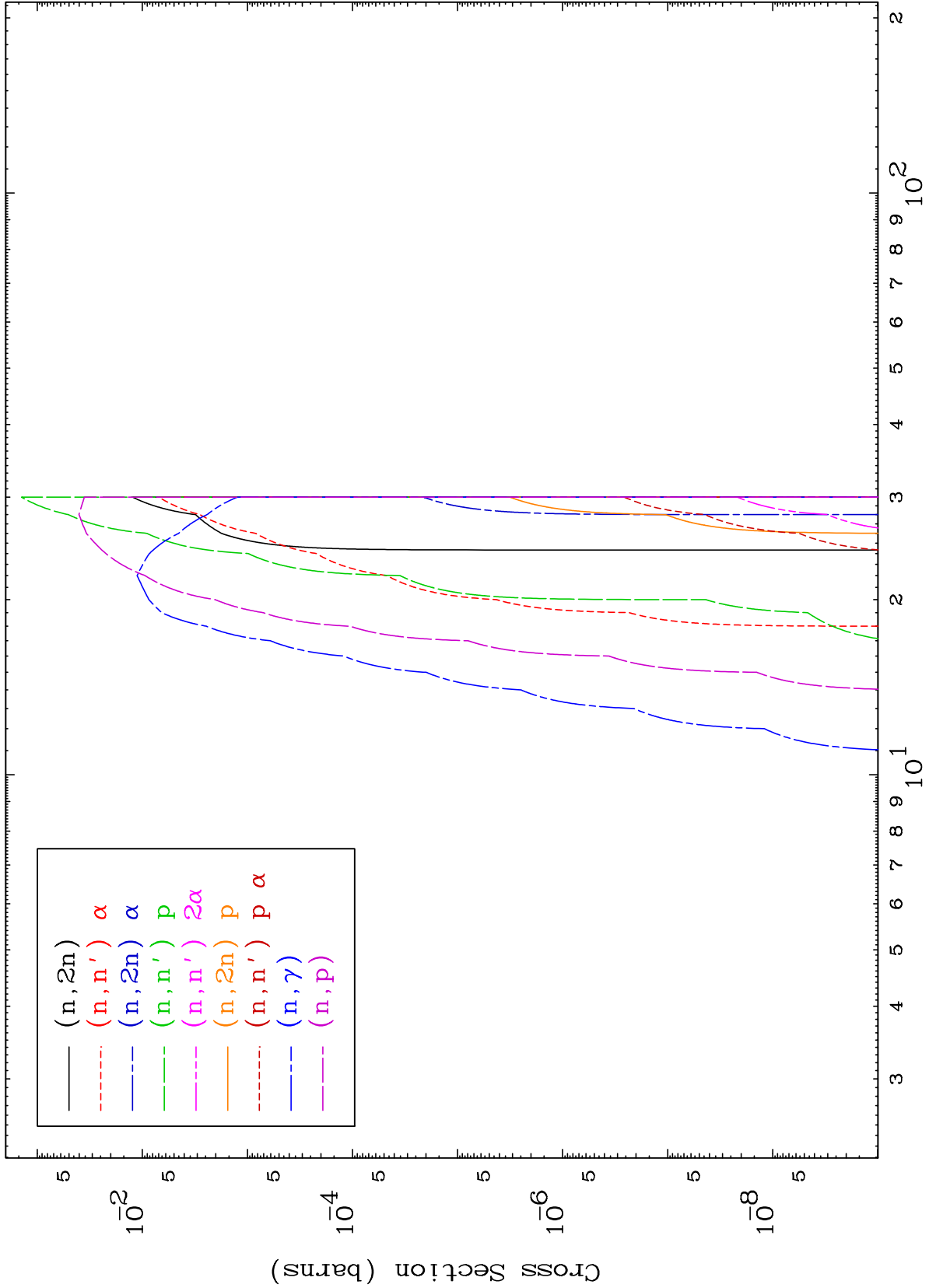
0 Kelvin

$\alpha$  Major Cross Sections

80-Hg-187m



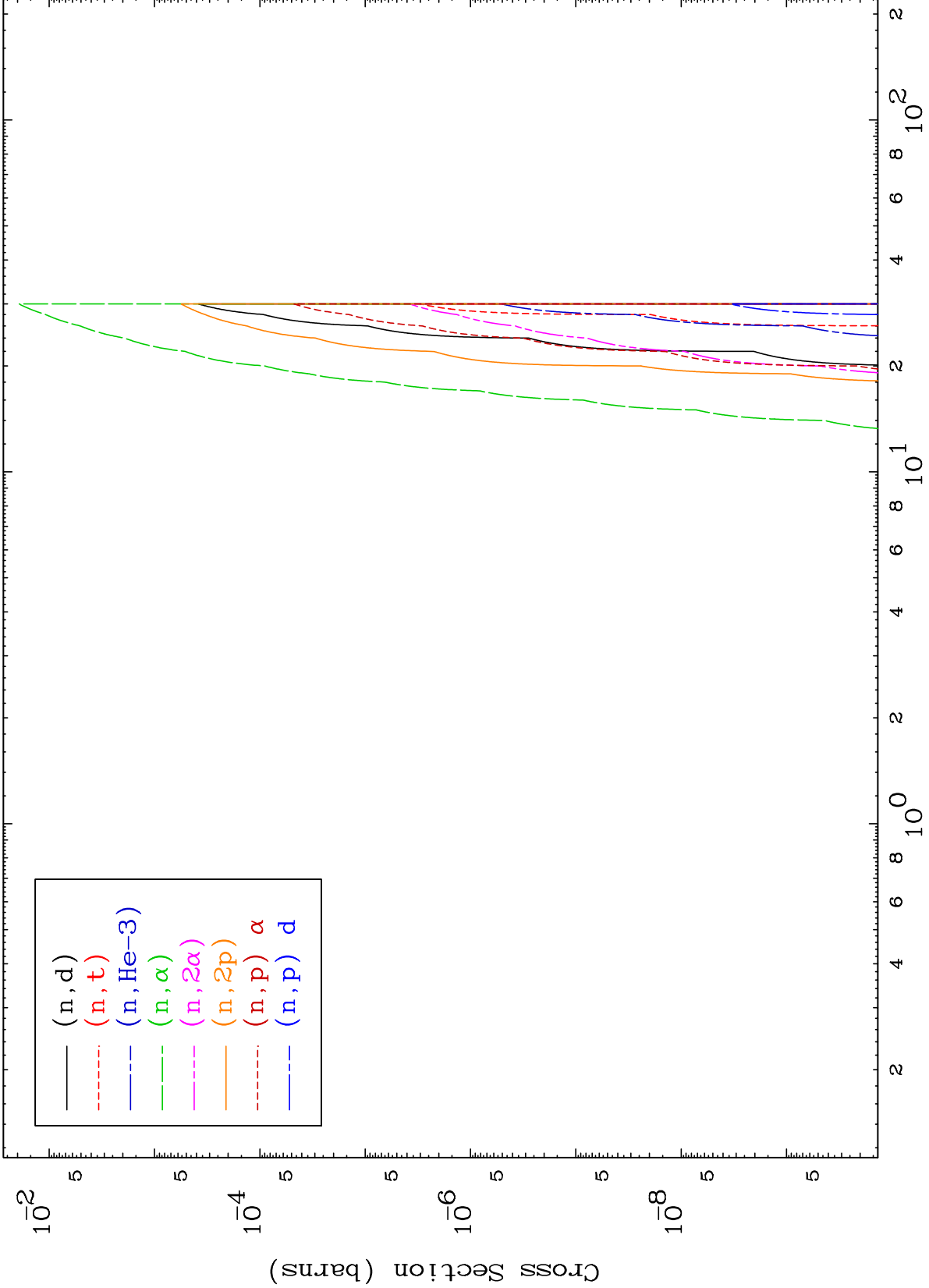
Legend:  
— Nonelastic  
- - - Inelastic  
- - - (n, 2n)  
- - - (n,  $\gamma$ )

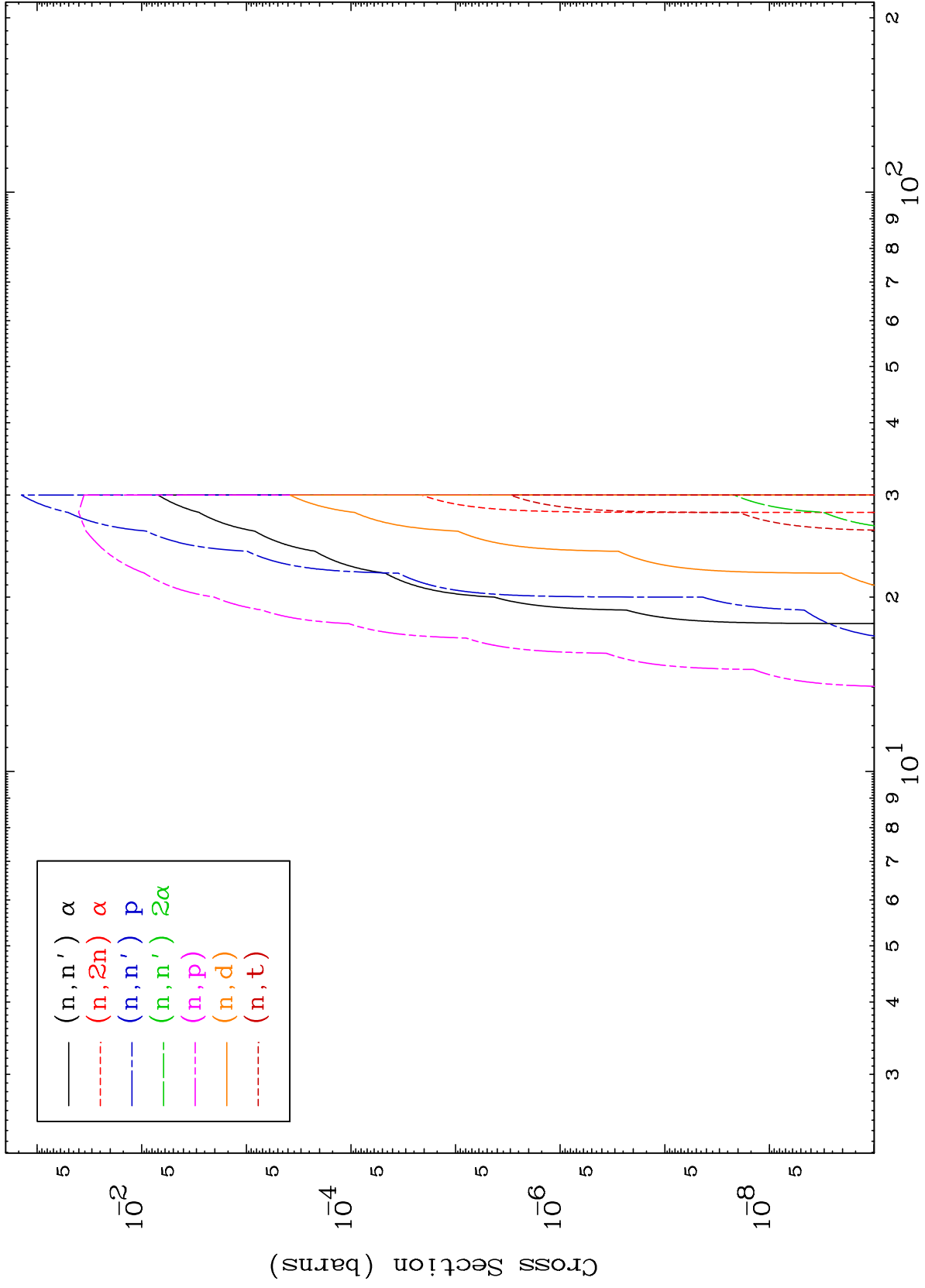


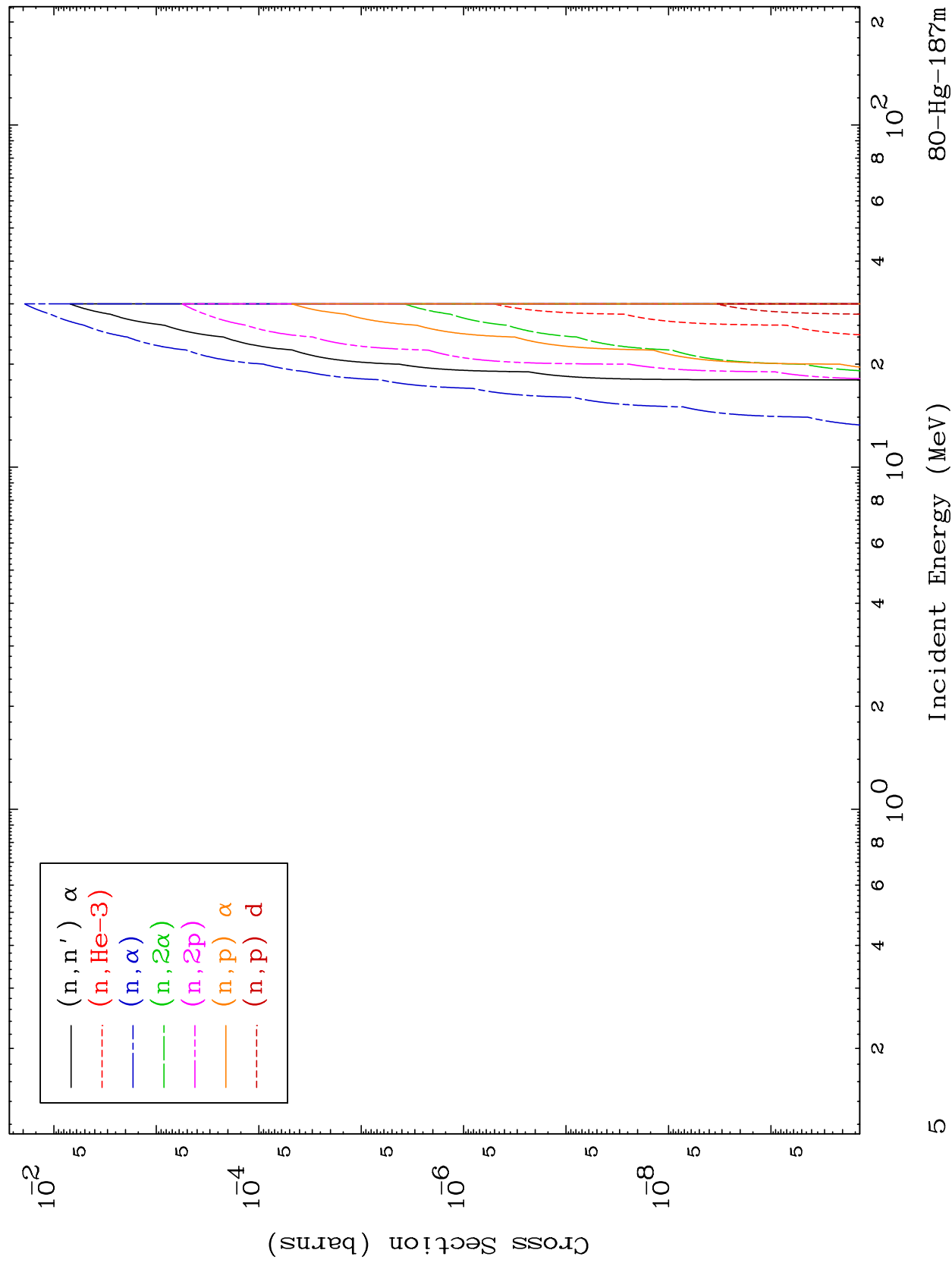
MAT 7999

$\alpha$  Neutron Absorption  
0 Kelvin Cross Sections

80-Hg-187m



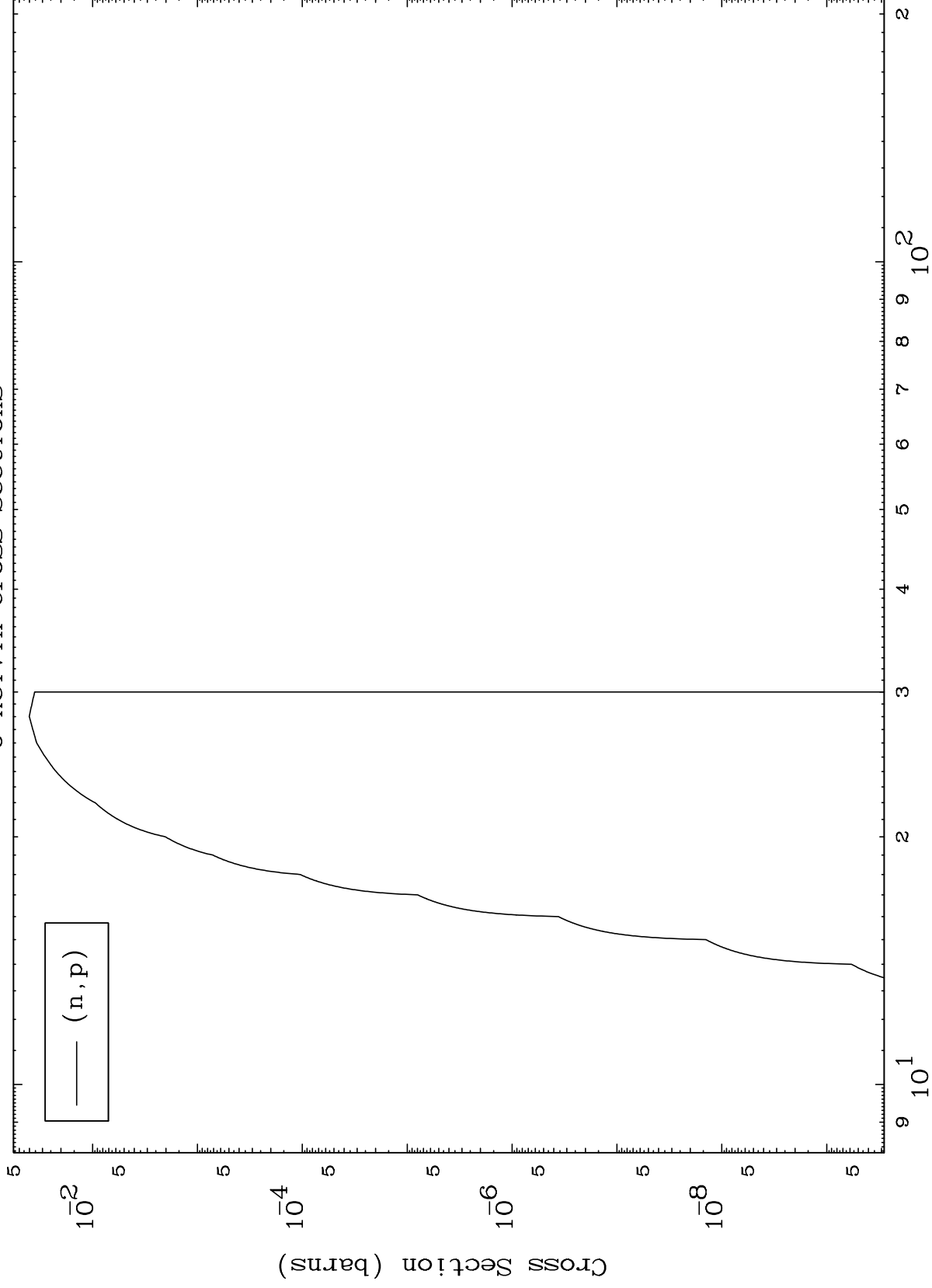




MAT 7999

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

80-Hg-187m



Incident Energy (MeV)

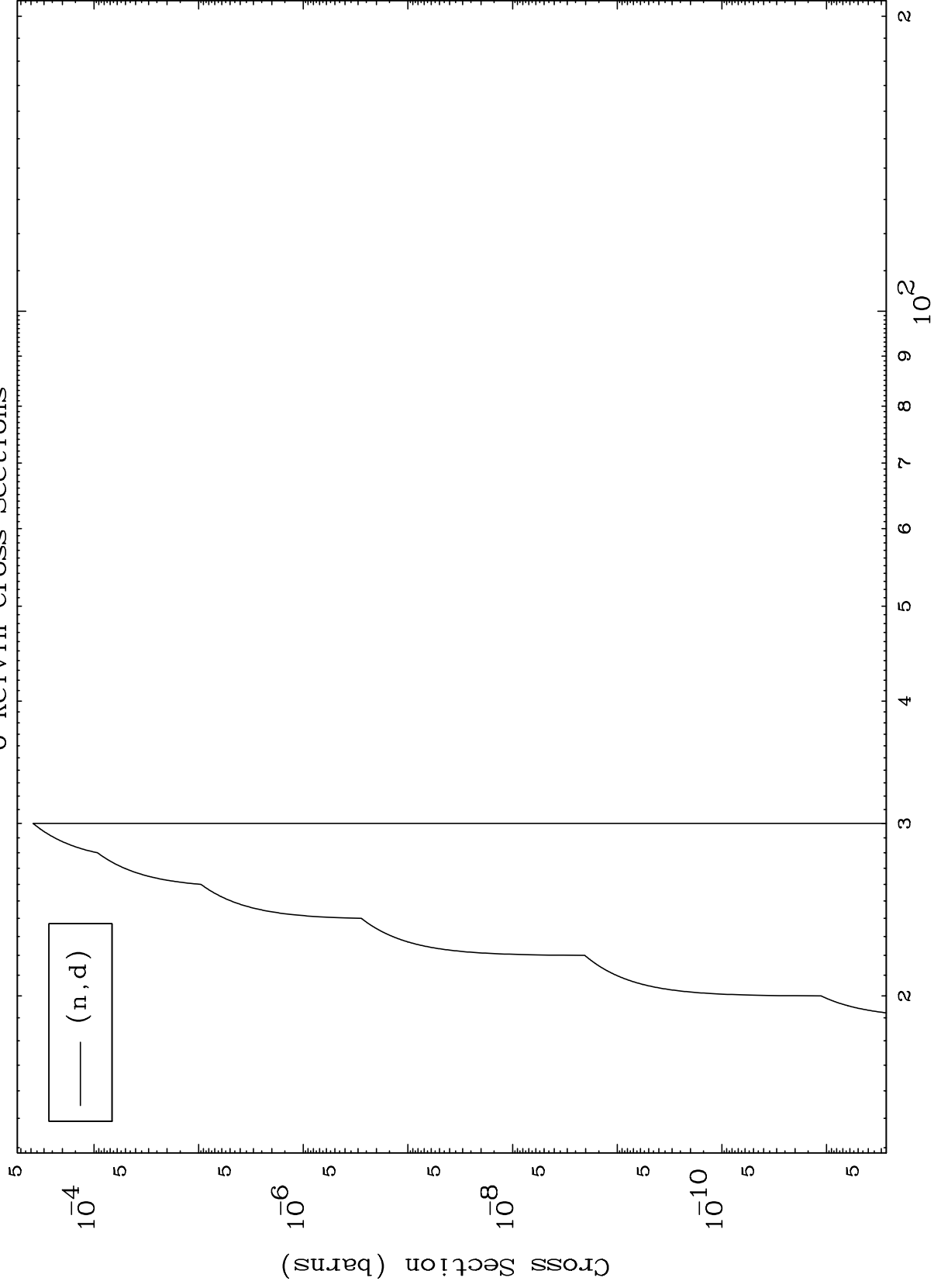
80-Hg-187m

6

MAT 7999

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

80-Hg-187m



7

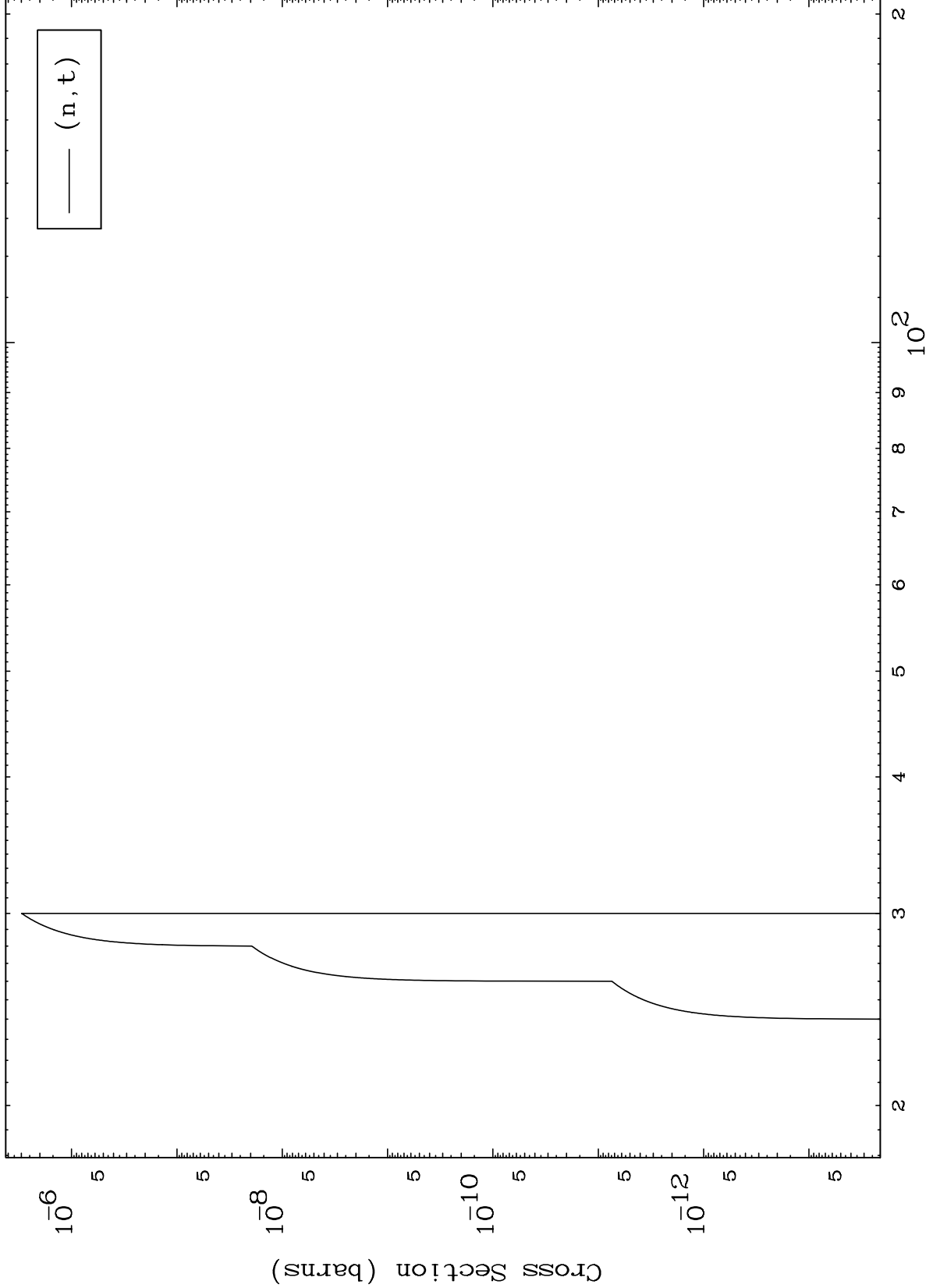
Incident Energy (MeV)

80-Hg-187m

MAT 7999

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

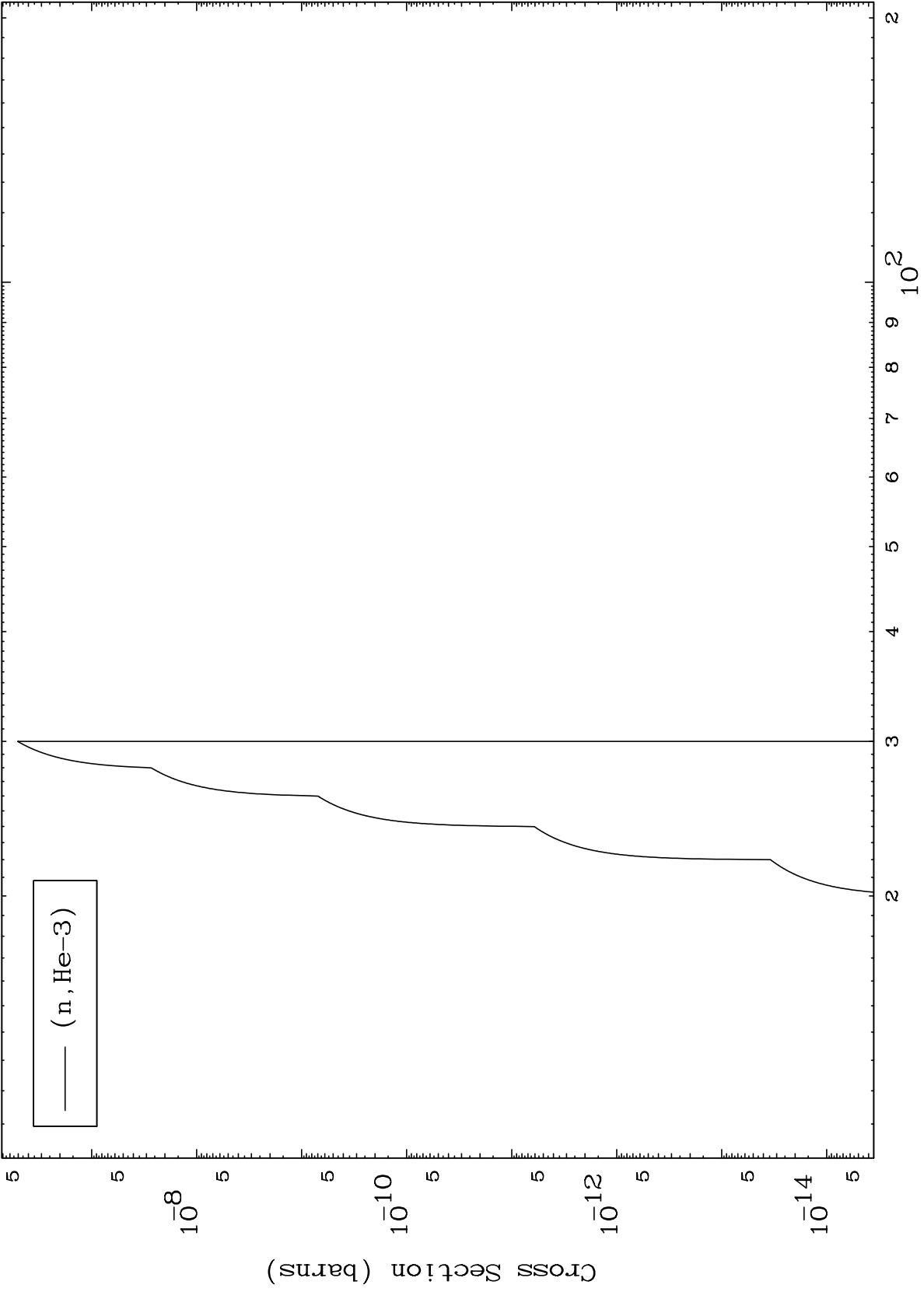
80-Hg-187m



8

Incident Energy (MeV)

80-Hg-187m

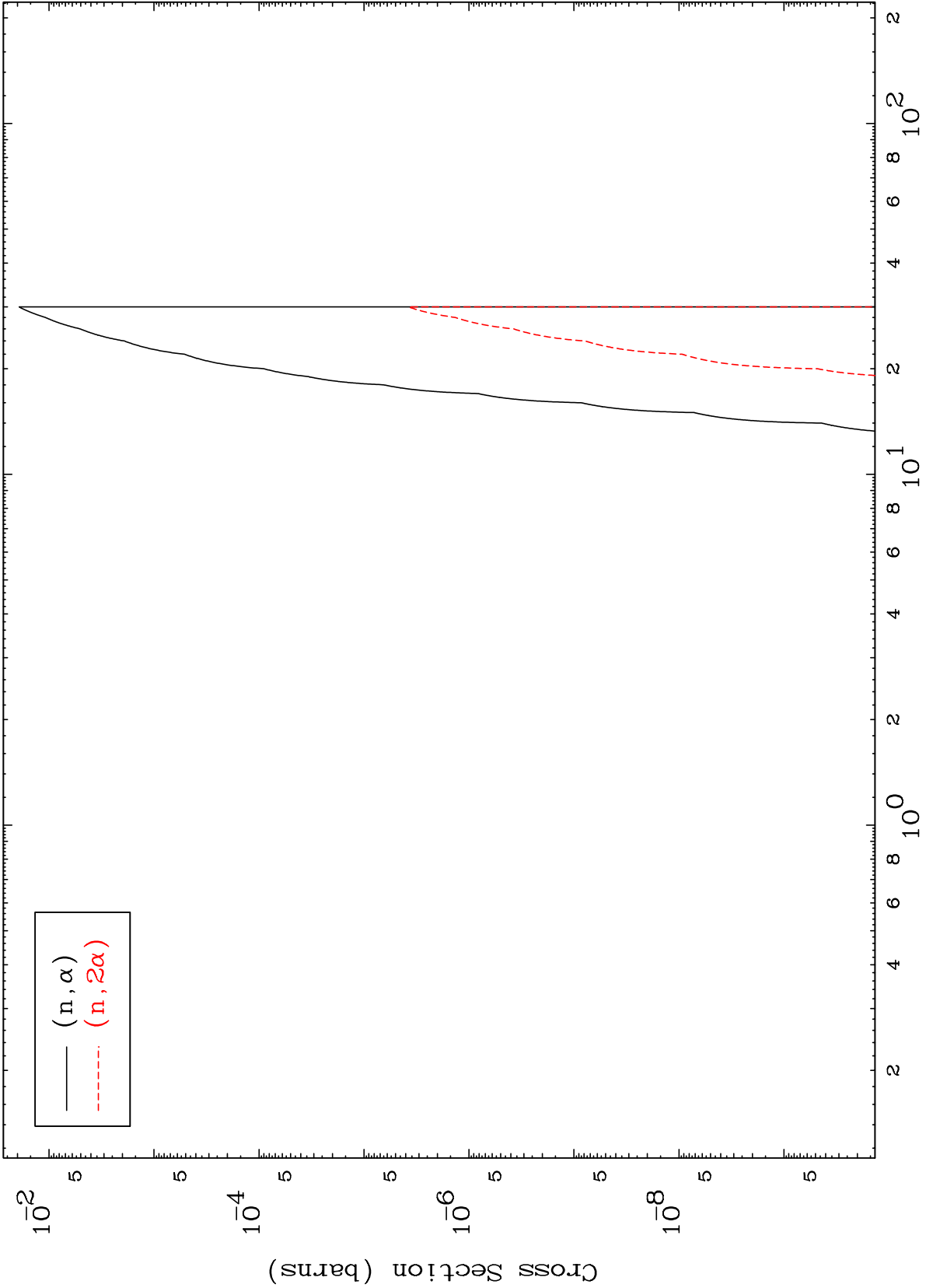


MAT 7999

( $\alpha, \alpha$ ) Levels

80-Hg-187m

0 Kelvin Cross Sections



— ( $n, \alpha$ )  
- - - ( $n, 2\alpha$ )

10

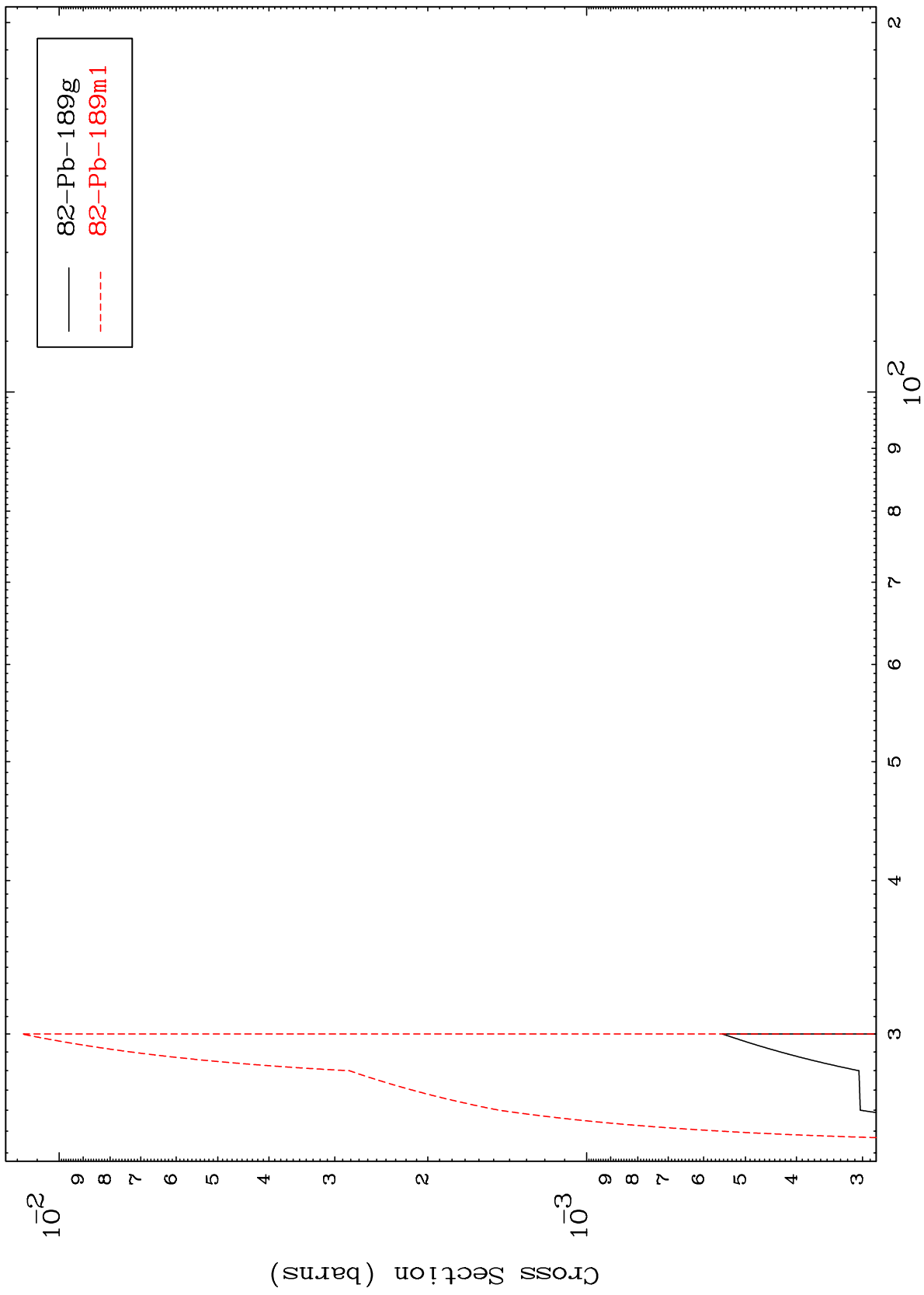
Incident Energy (MeV)

80-Hg-187m

MAT 7999

80-Hg-187m

(n,2n)  
Radionuclide Production Cross Section



80-Hg-187m

Incident Energy (MeV)

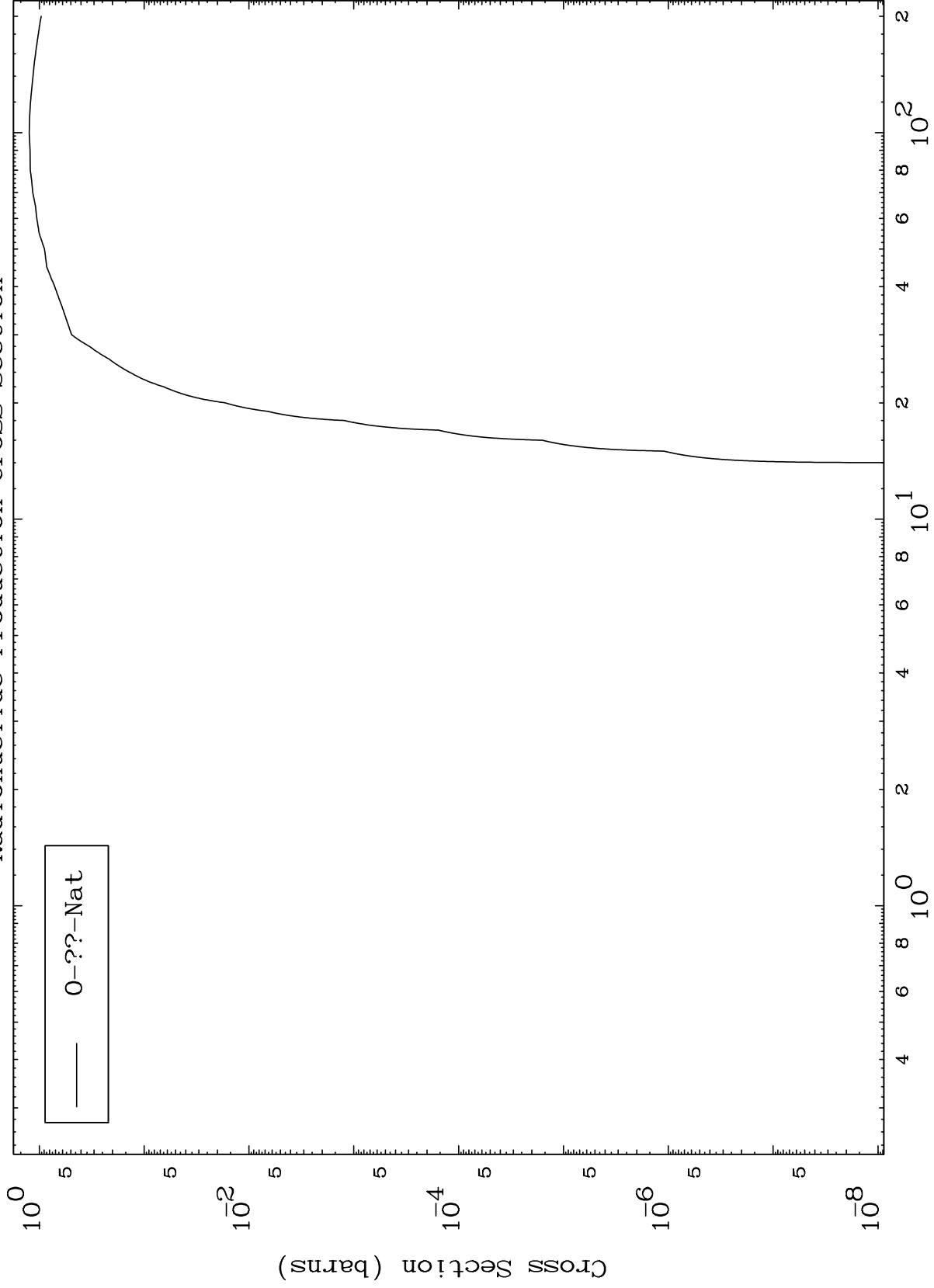
11

MAT 7999

Fission

80-Hg-187m

Radionuclide Production Cross Section



12

Incident Energy (MeV)

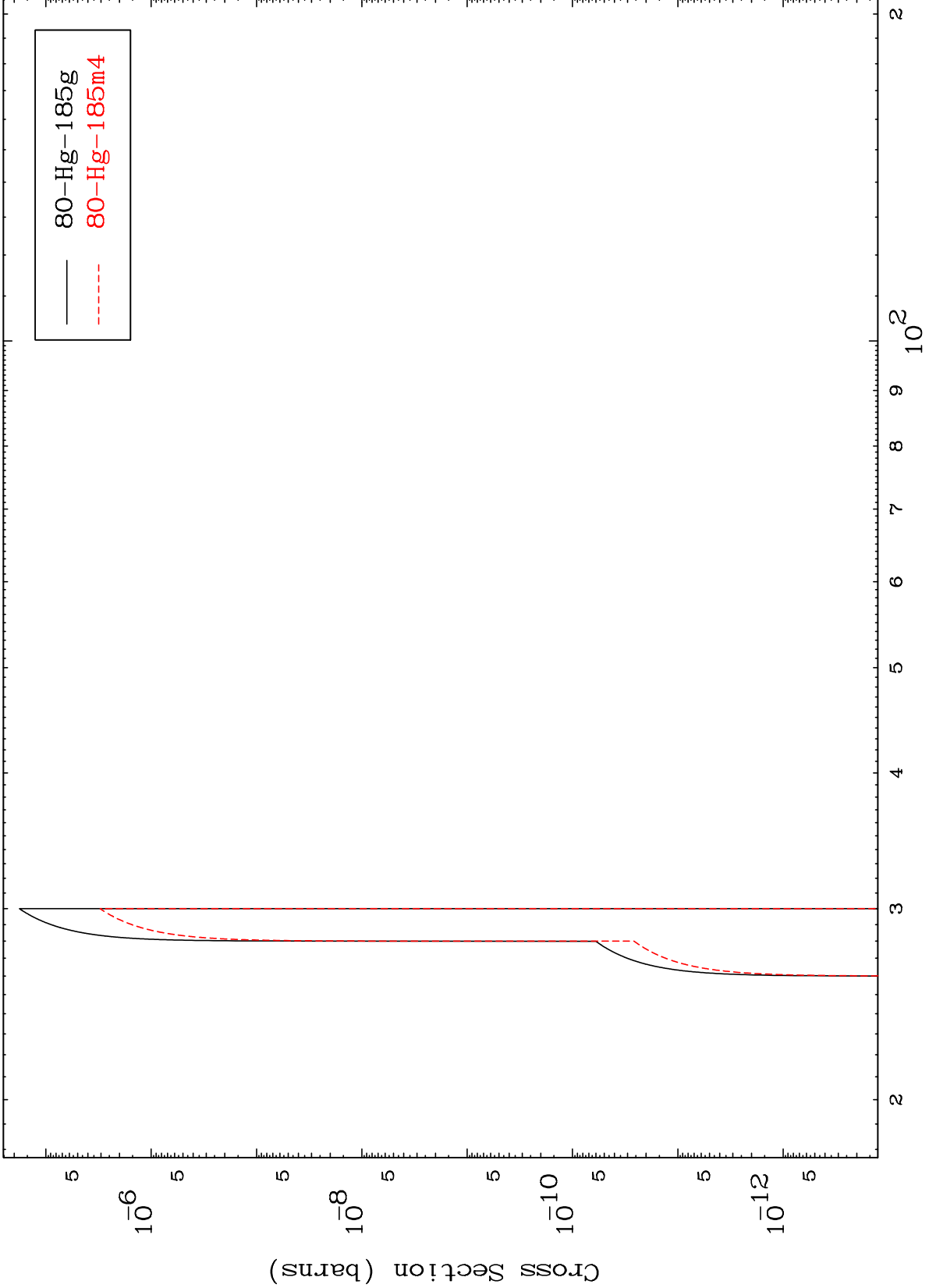
80-Hg-187m

MAT 7999

(n,2n)  $\alpha$

80-Hg-187m

Radionuclide Production Cross Section



13

Incident Energy (MeV)

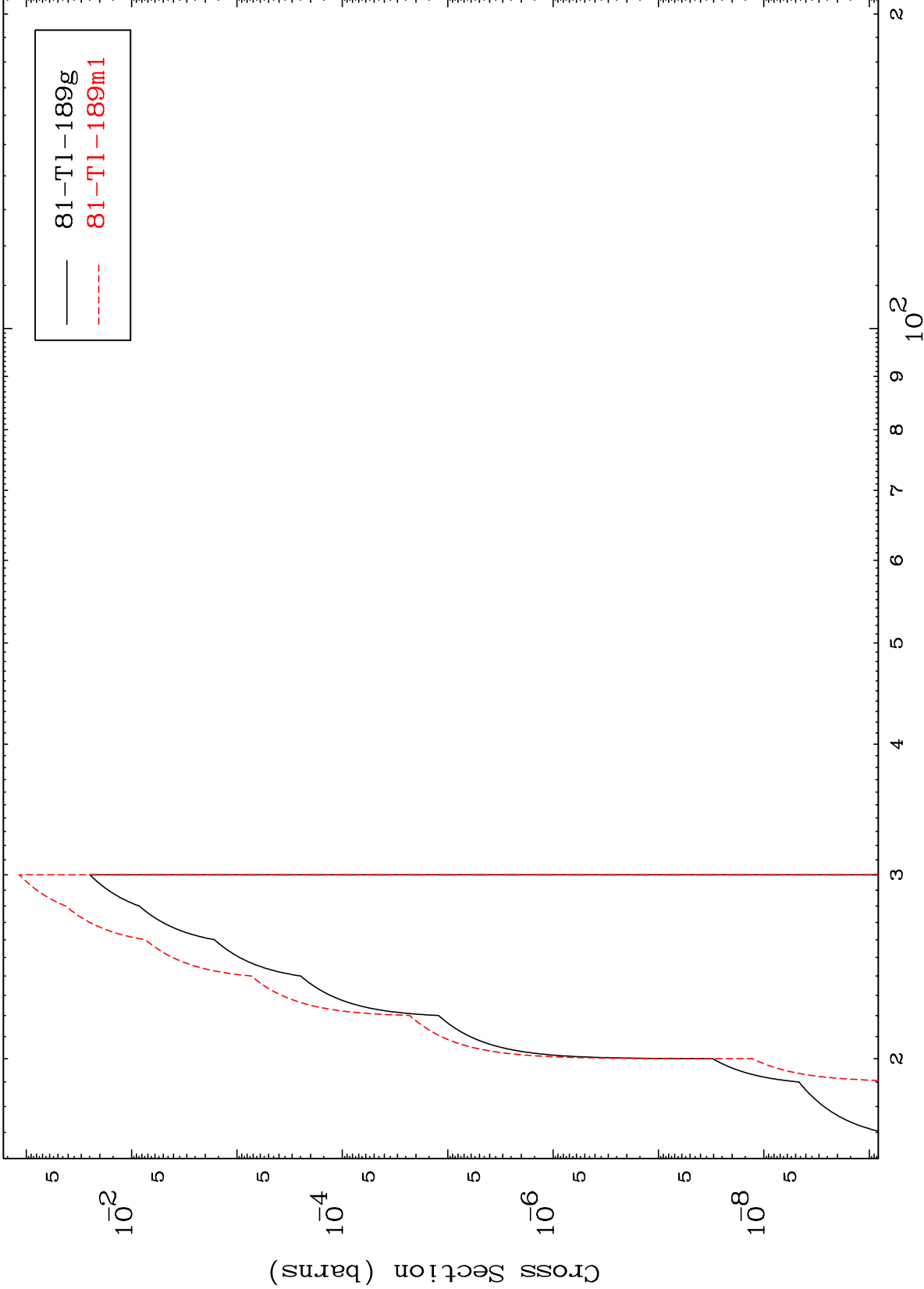
80-Hg-187m

MAT 7999

(n,n') p

80-Hg-187m

Radionuclide Production Cross Section



14

Incident Energy (MeV)

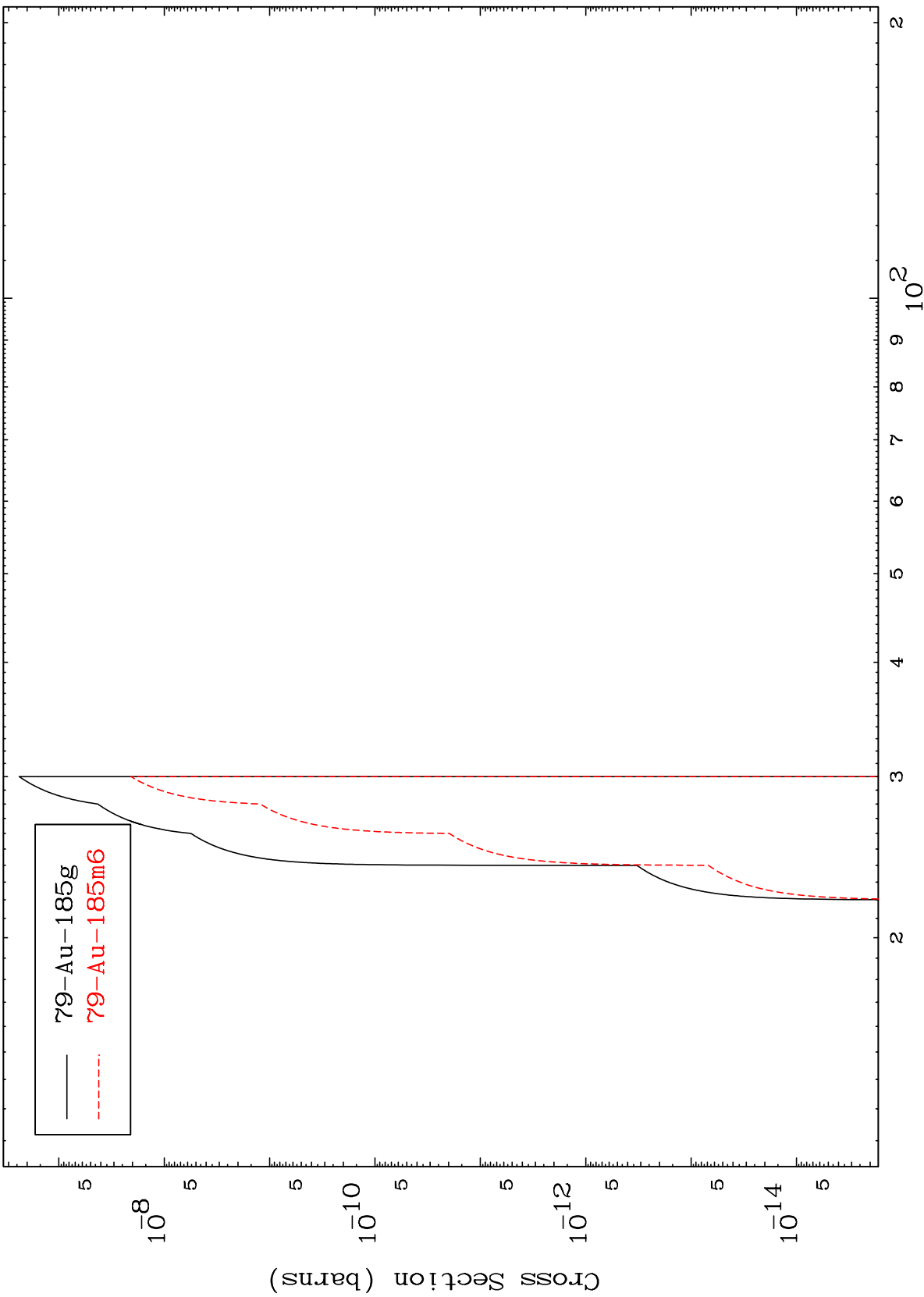
80-Hg-187m

MAT 7999

(n,n') p  $\alpha$

80-Hg-187m

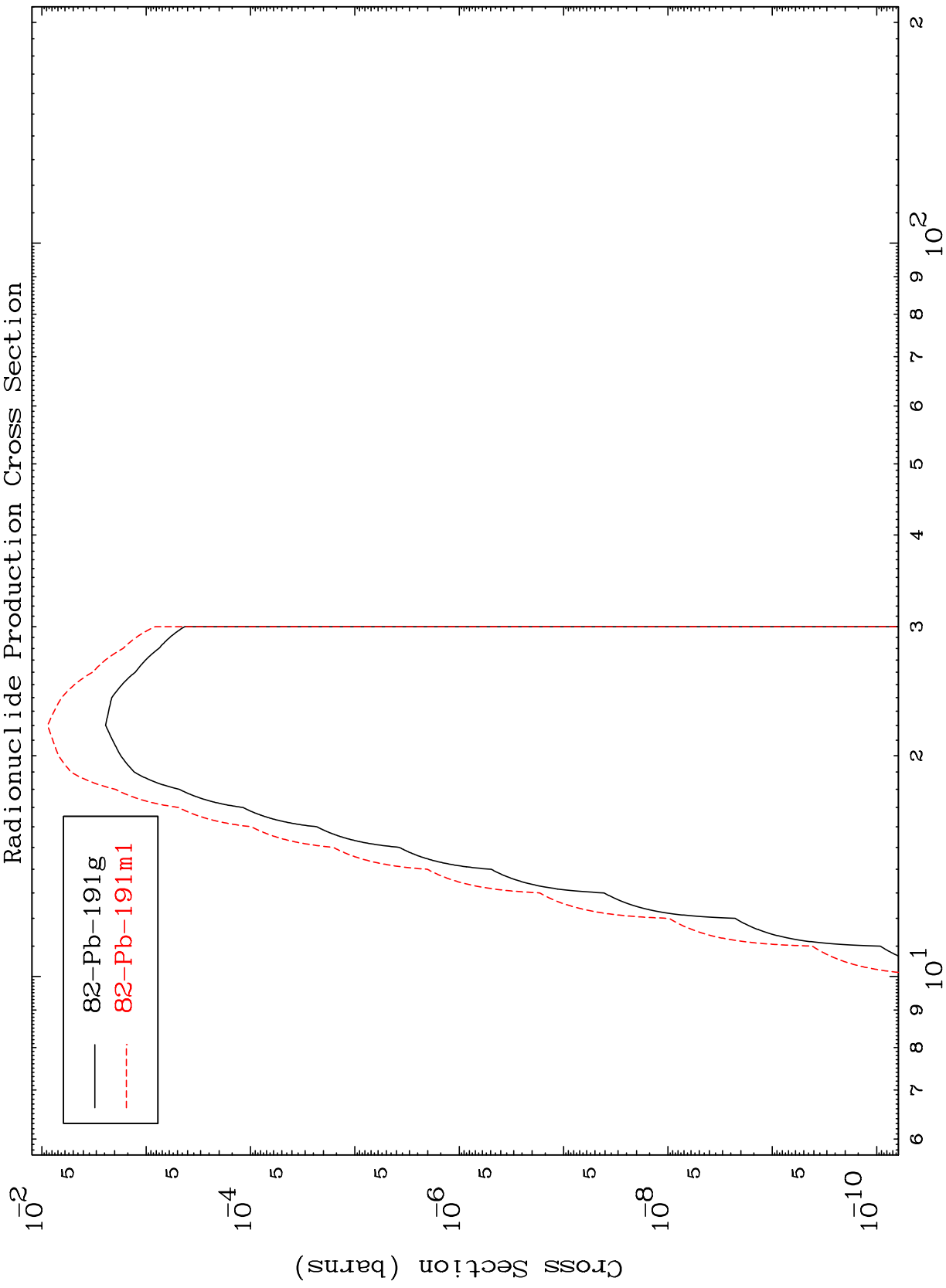
Radionuclide Production Cross Section



MAT 7999

80-Hg-187m

Radionuclide Production Cross Section



Incident Energy (MeV)

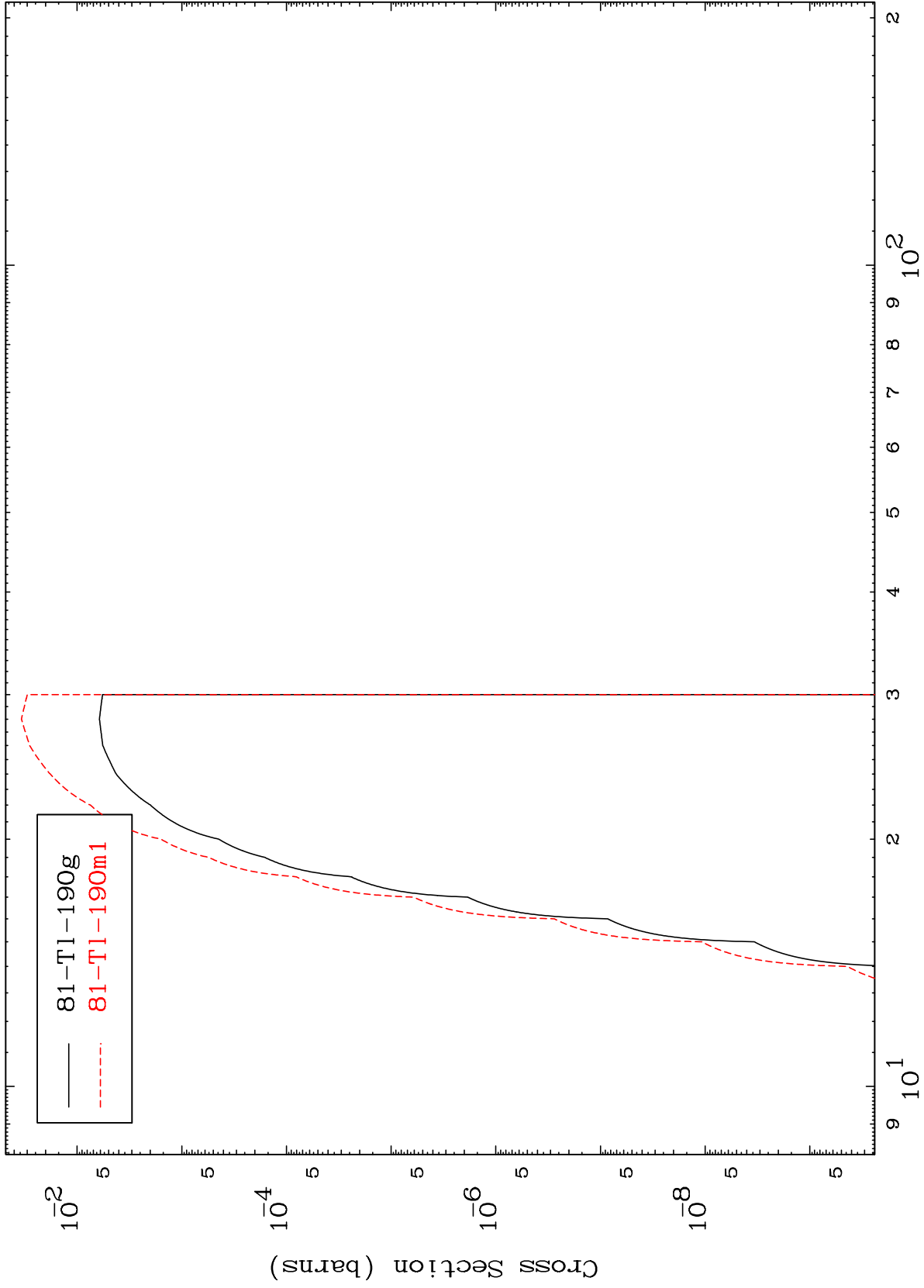
80-Hg-187m

16

MAT 7999

80-Hg-187m

(n,p)  
Radionuclide Production Cross Section



17

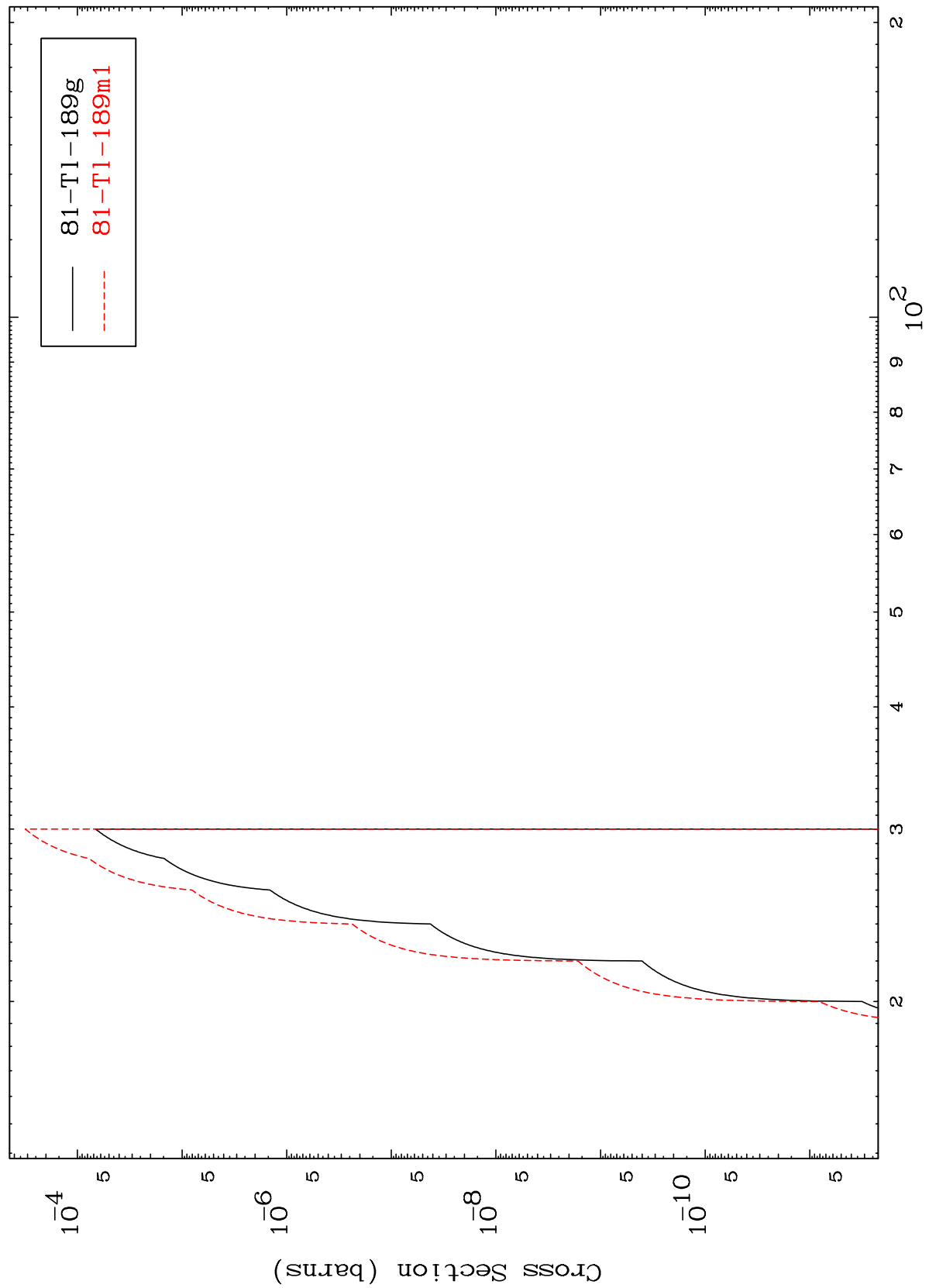
Incident Energy (MeV)

80-Hg-187m

MAT 7999

80-Hg-187m

(n,d)  
Radionuclide Production Cross Section



18

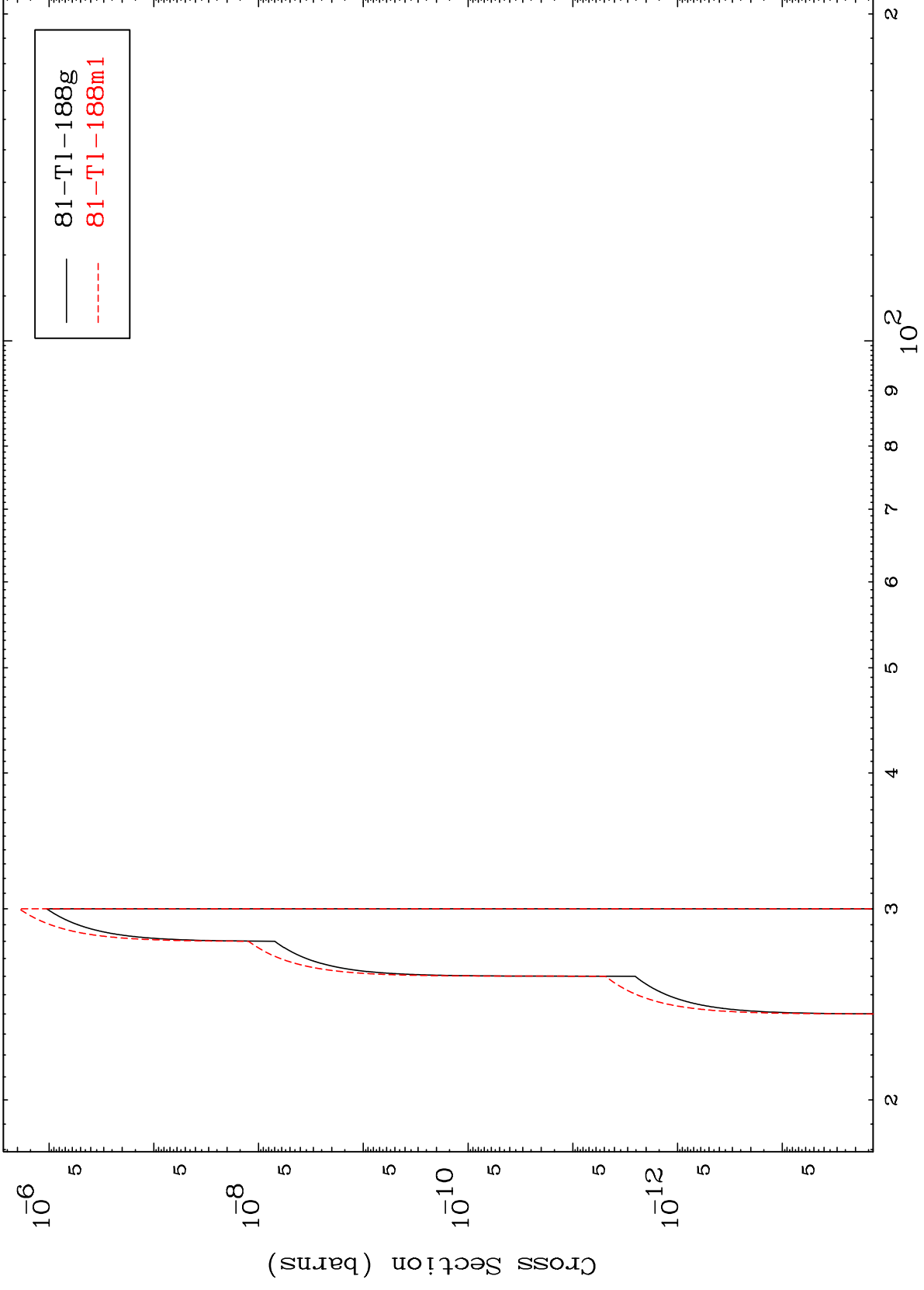
Incident Energy (MeV)

80-Hg-187m

MAT 7999

80-Hg-187m

(n, t)  
Radionuclide Production Cross Section

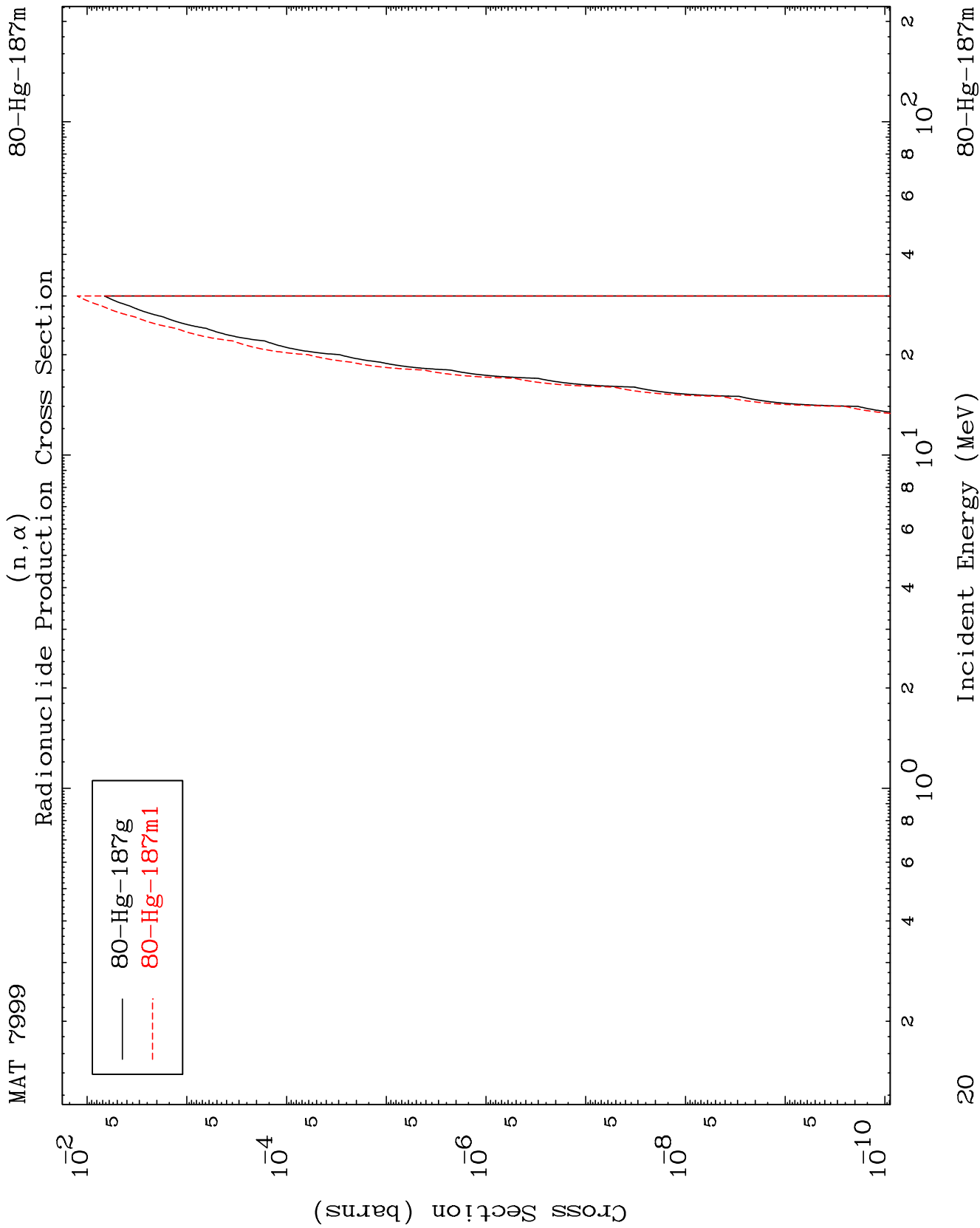


19

Incident Energy (MeV)

80-Hg-187m

MAT 7999



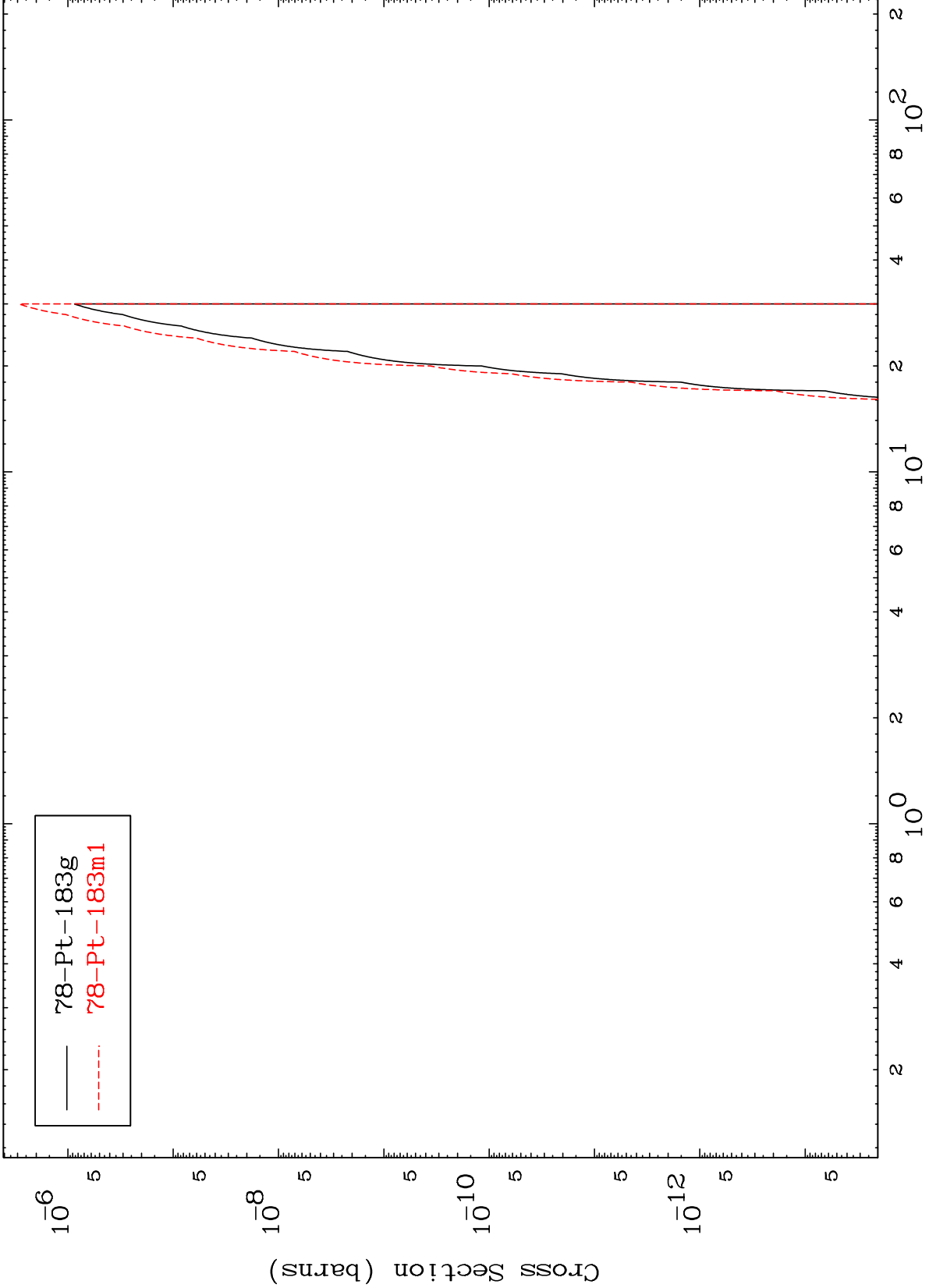
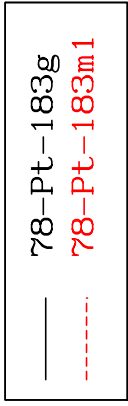
80-Hg-187g  
80-Hg-187m1

MAT 7999

(n,2α)

80-Hg-187m

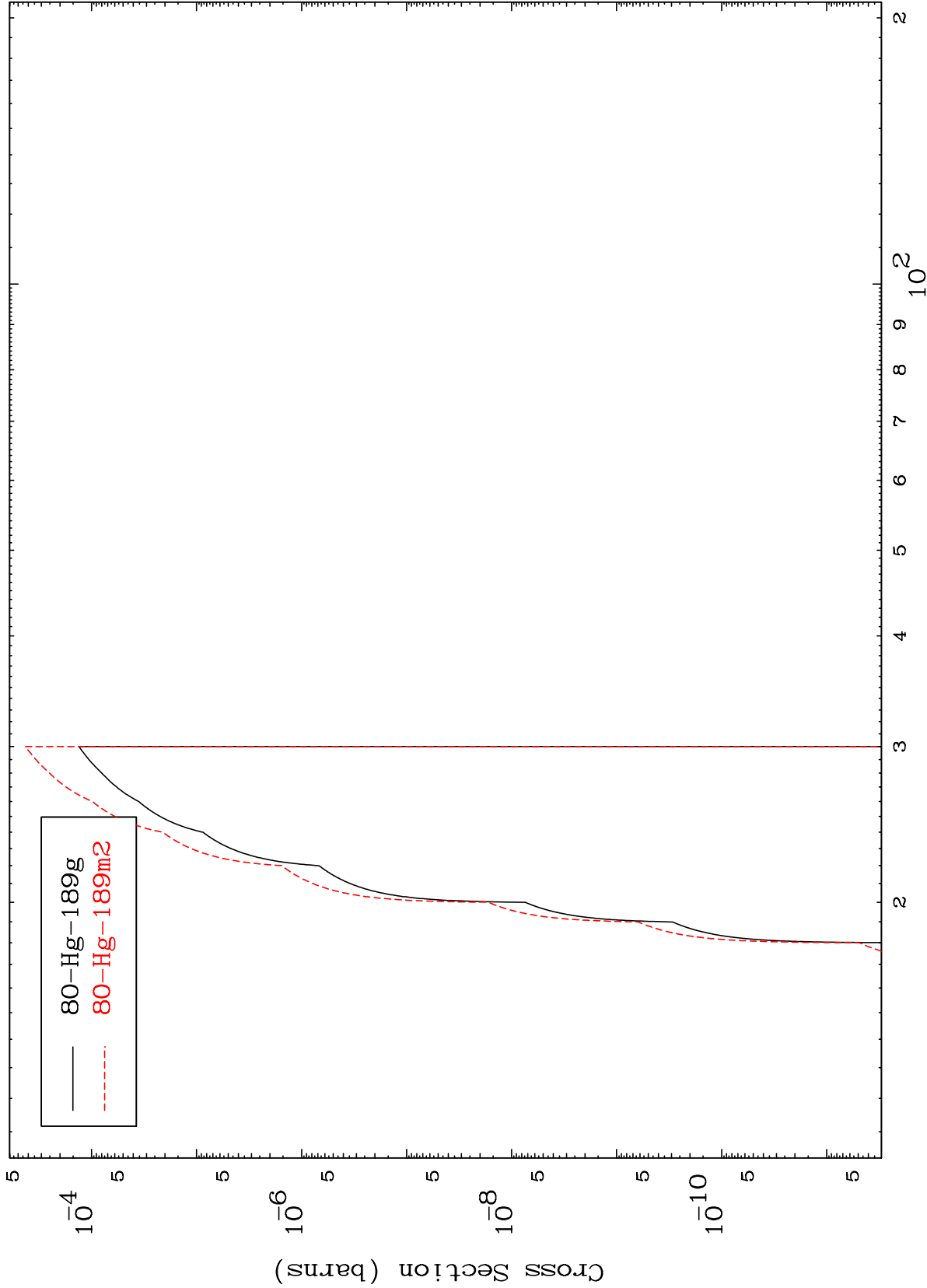
Radionuclide Production Cross Section



MAT 7999

80-Hg-187m

(n,2p)  
Radionuclide Production Cross Section



80-Hg-189g  
80-Hg-189m2