

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

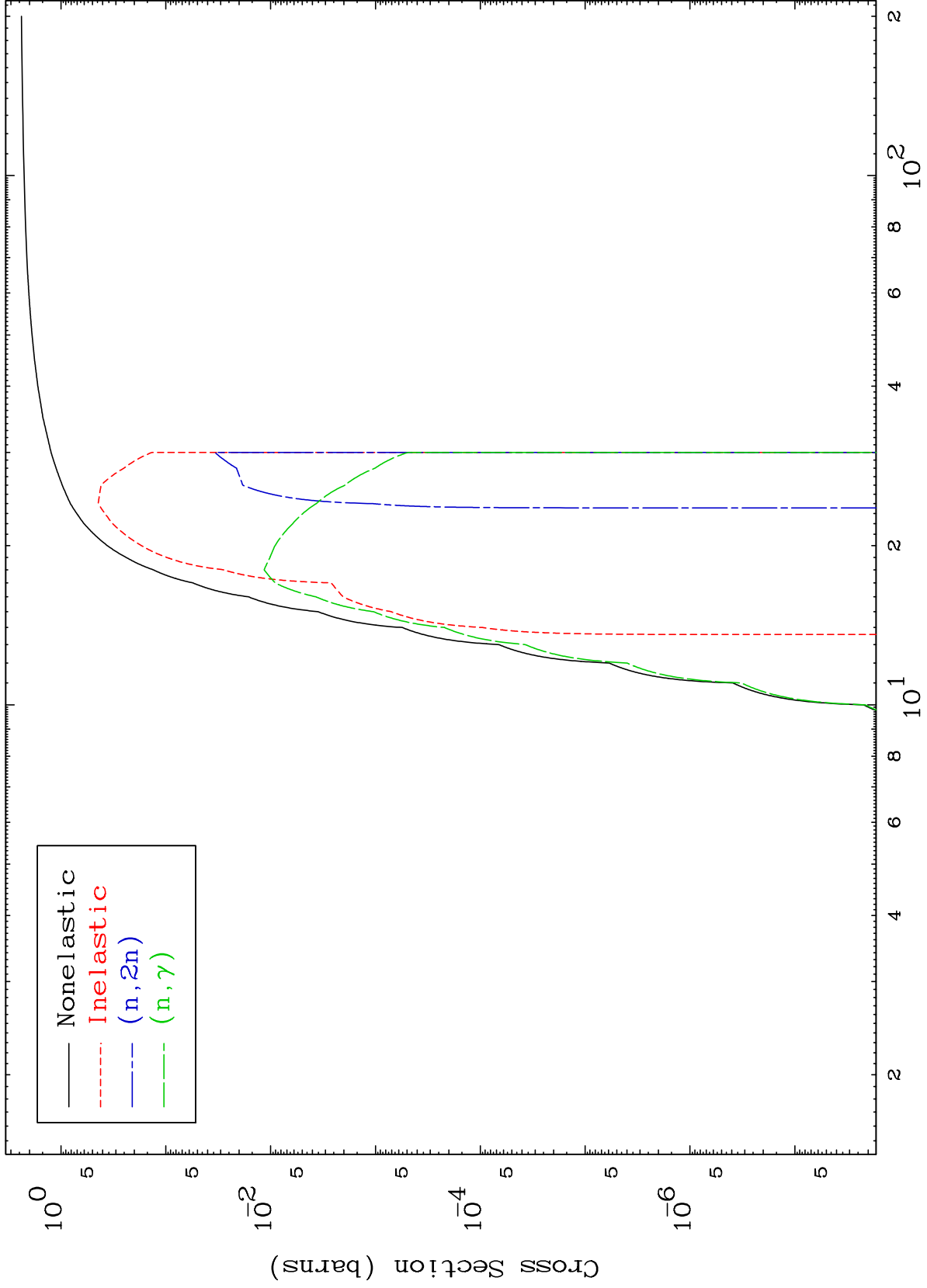
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6401

0 Kelvin Cross Sections

64-Gd-144



1

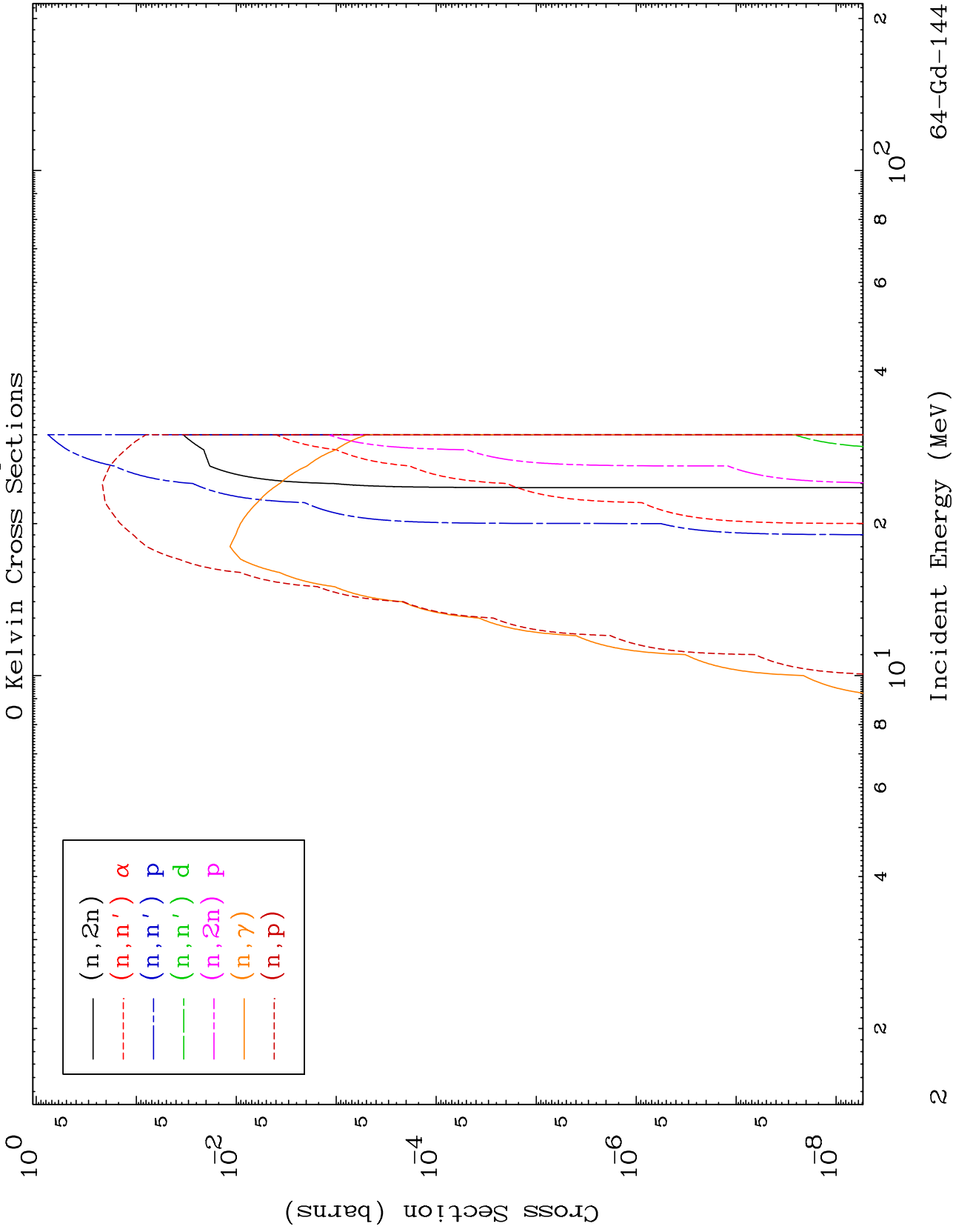
Incident Energy (MeV)

64-Gd-144

MAT 6401

$\alpha$  Neutron Absorption  
0 Kelvin Cross Sections

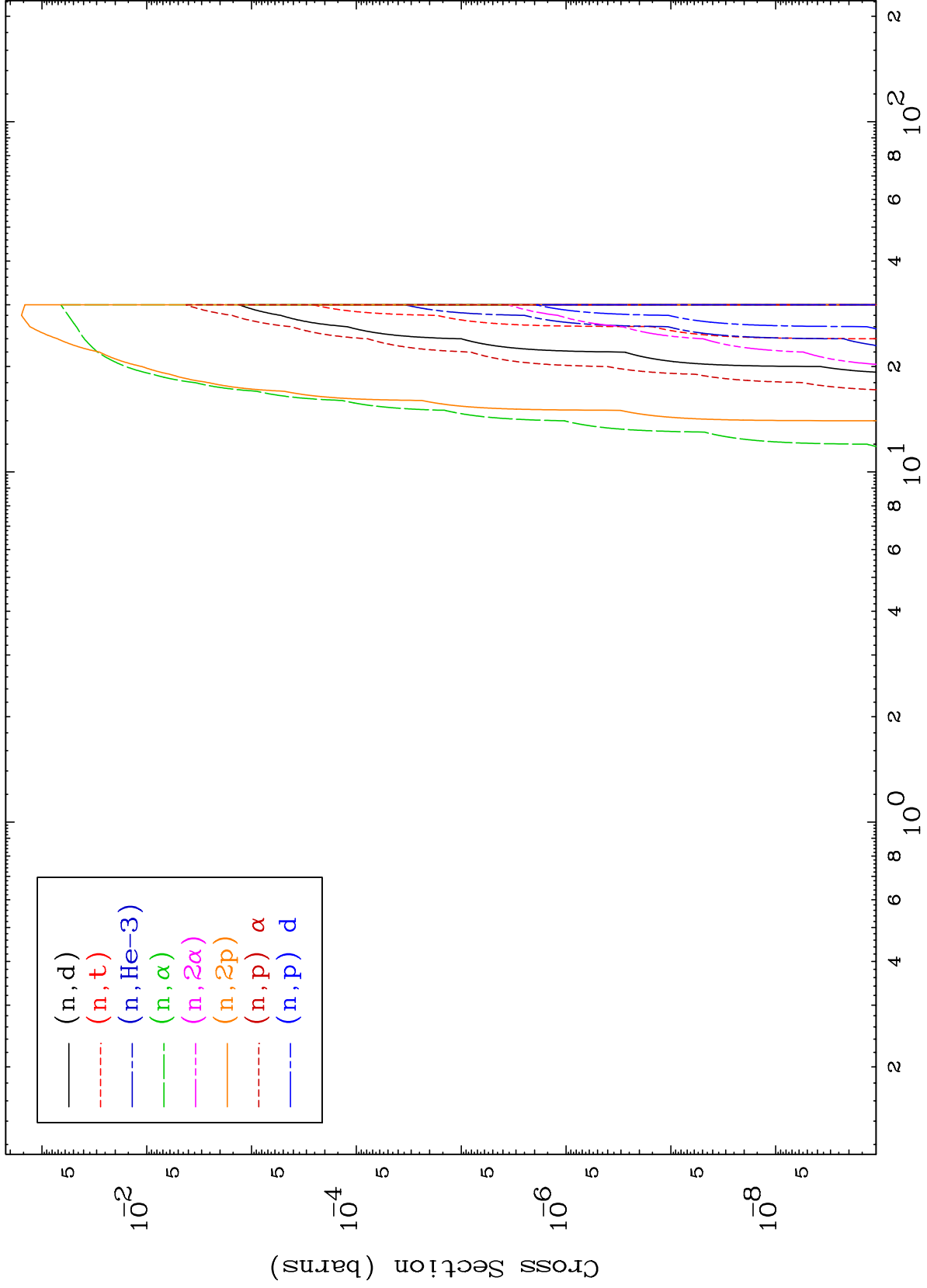
64-Gd-144



MAT 6401

$\alpha$  Neutron Absorption  
0 Kelvin Cross Sections

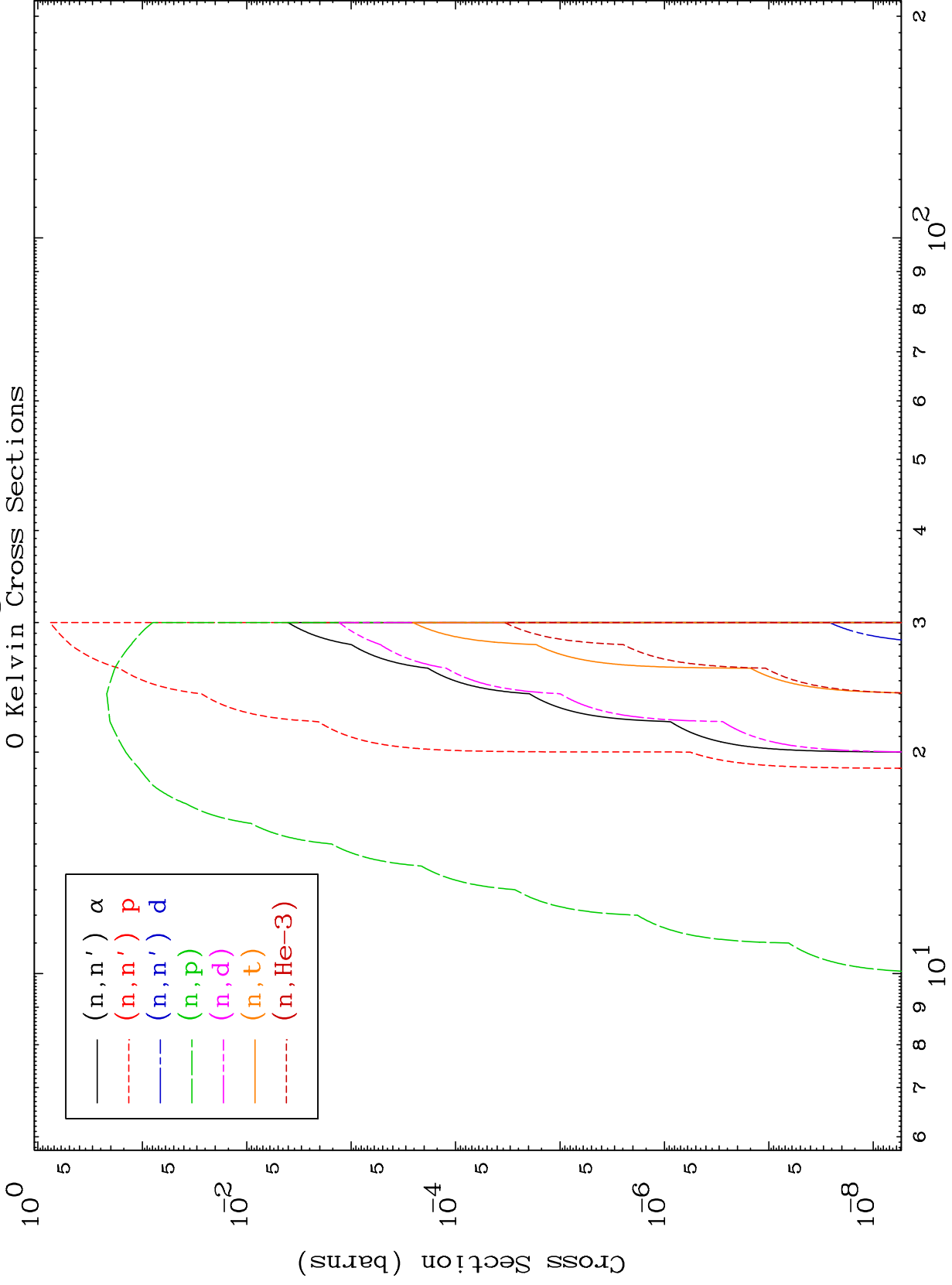
64-Gd-144



MAT 6401

$\alpha$  Charged Particle  
0 Kelvin Cross Sections

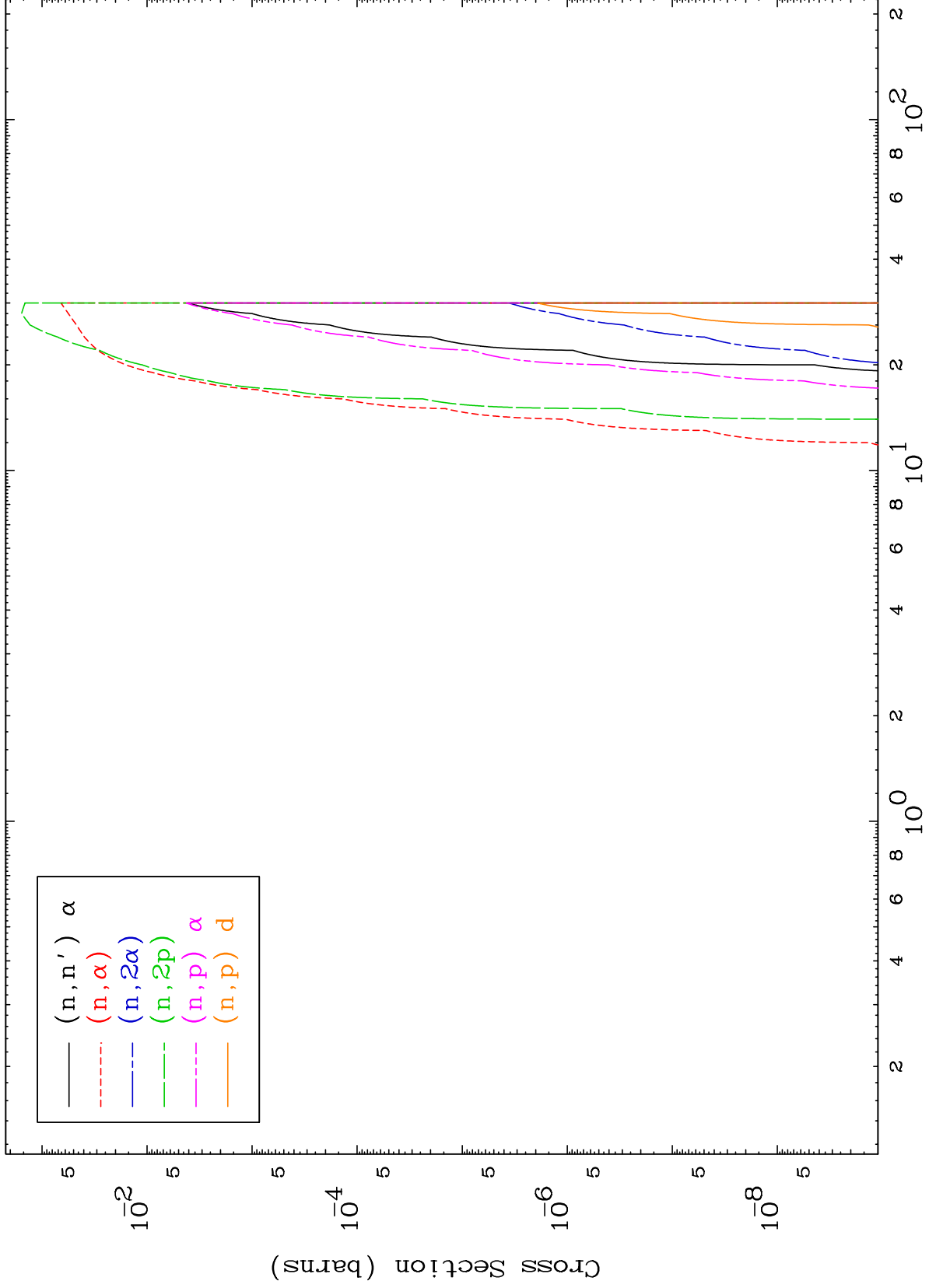
64-Gd-144



4

Incident Energy (MeV)

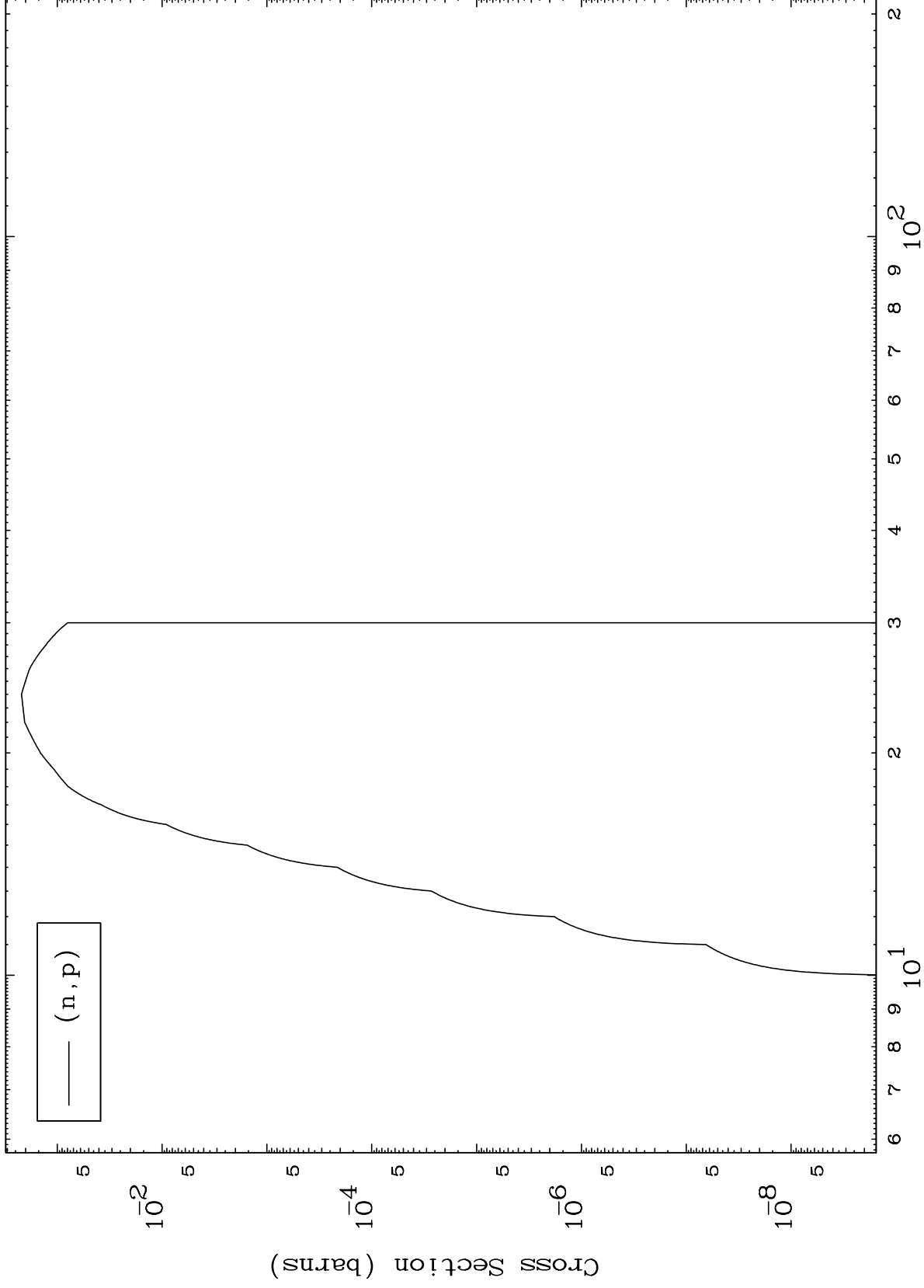
64-Gd-144



MAT 6401

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

64-Gd-144



6

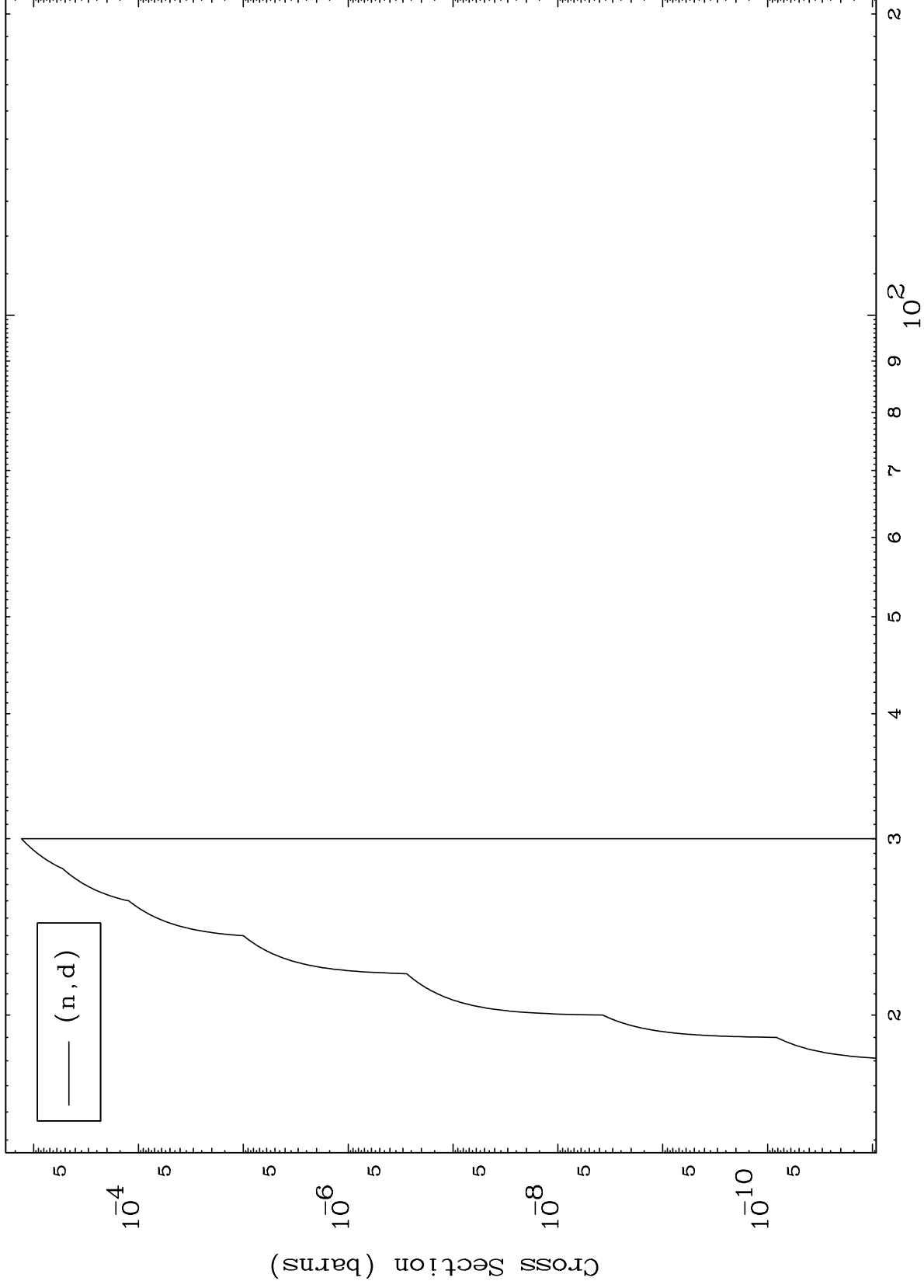
Incident Energy (MeV)

64-Gd-144

MAT 6401

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

64-Gd-144



7

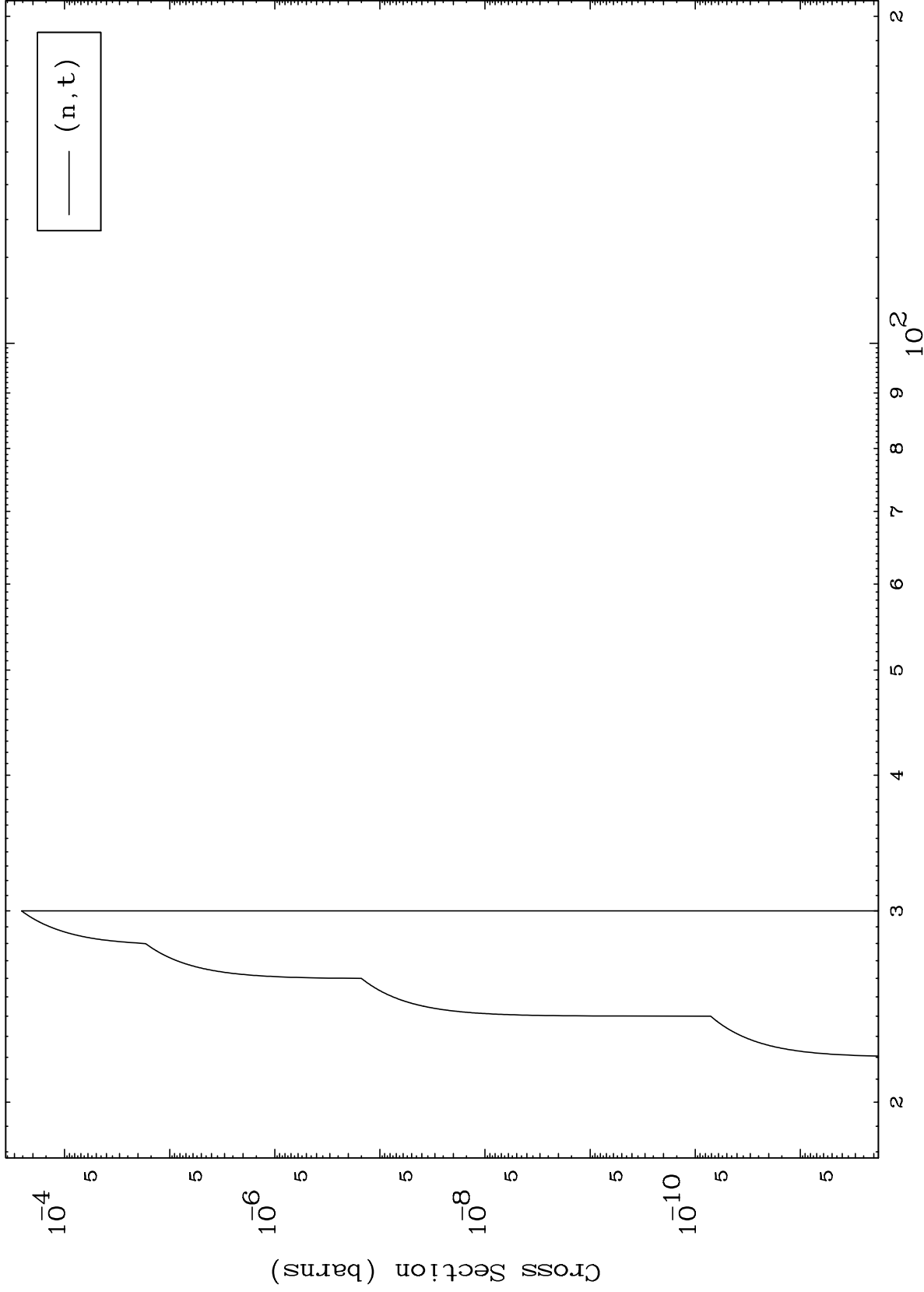
Incident Energy (MeV)

64-Gd-144

MAT 6401

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

64-Gd-144

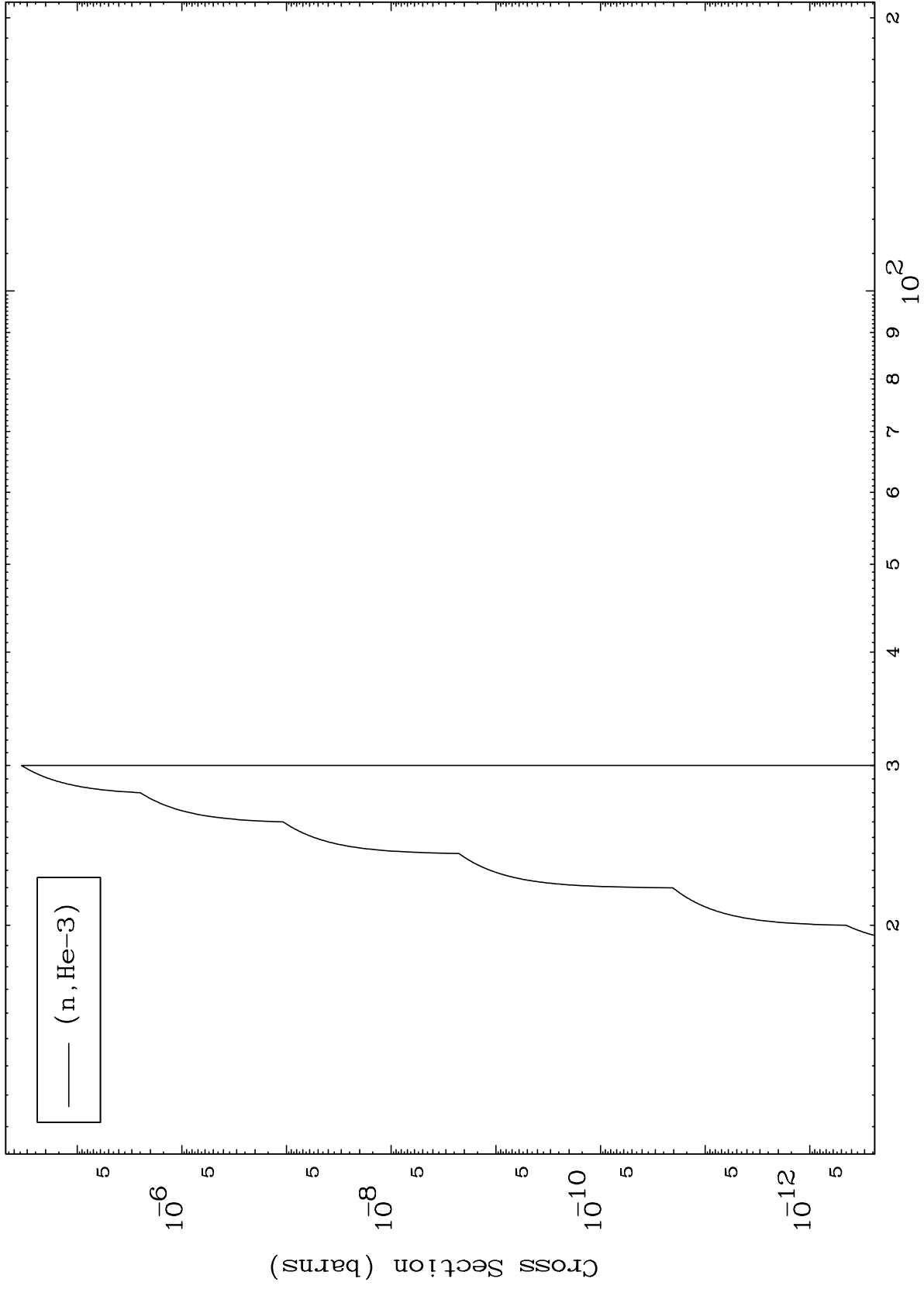


8

Incident Energy (MeV)

64-Gd-144

( $\alpha, \text{He}3$ ) Levels  
0 Kelvin Cross Sections

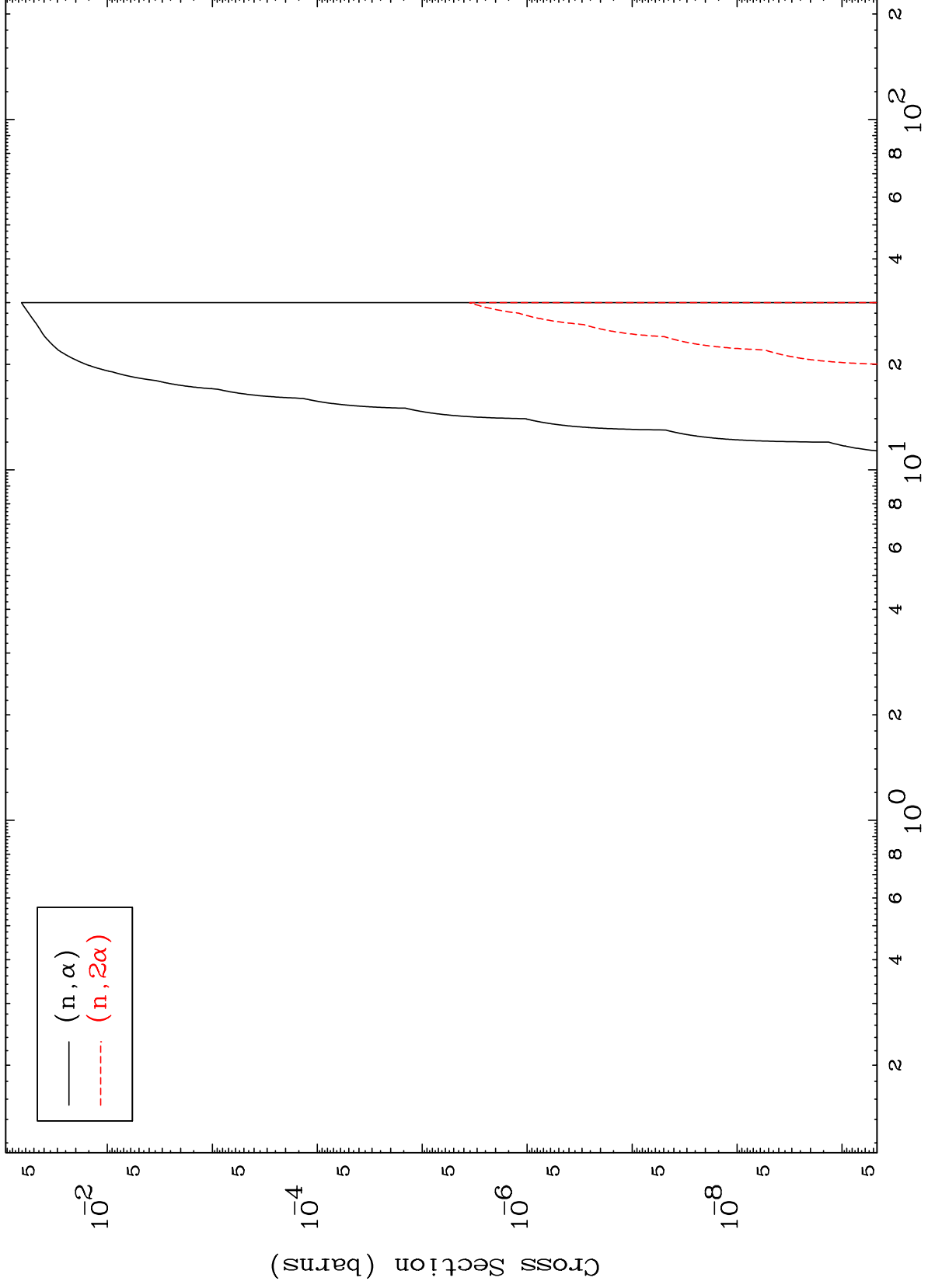


MAT 6401

( $\alpha, \alpha$ ) Levels

64-Gd-144

0 Kelvin Cross Sections

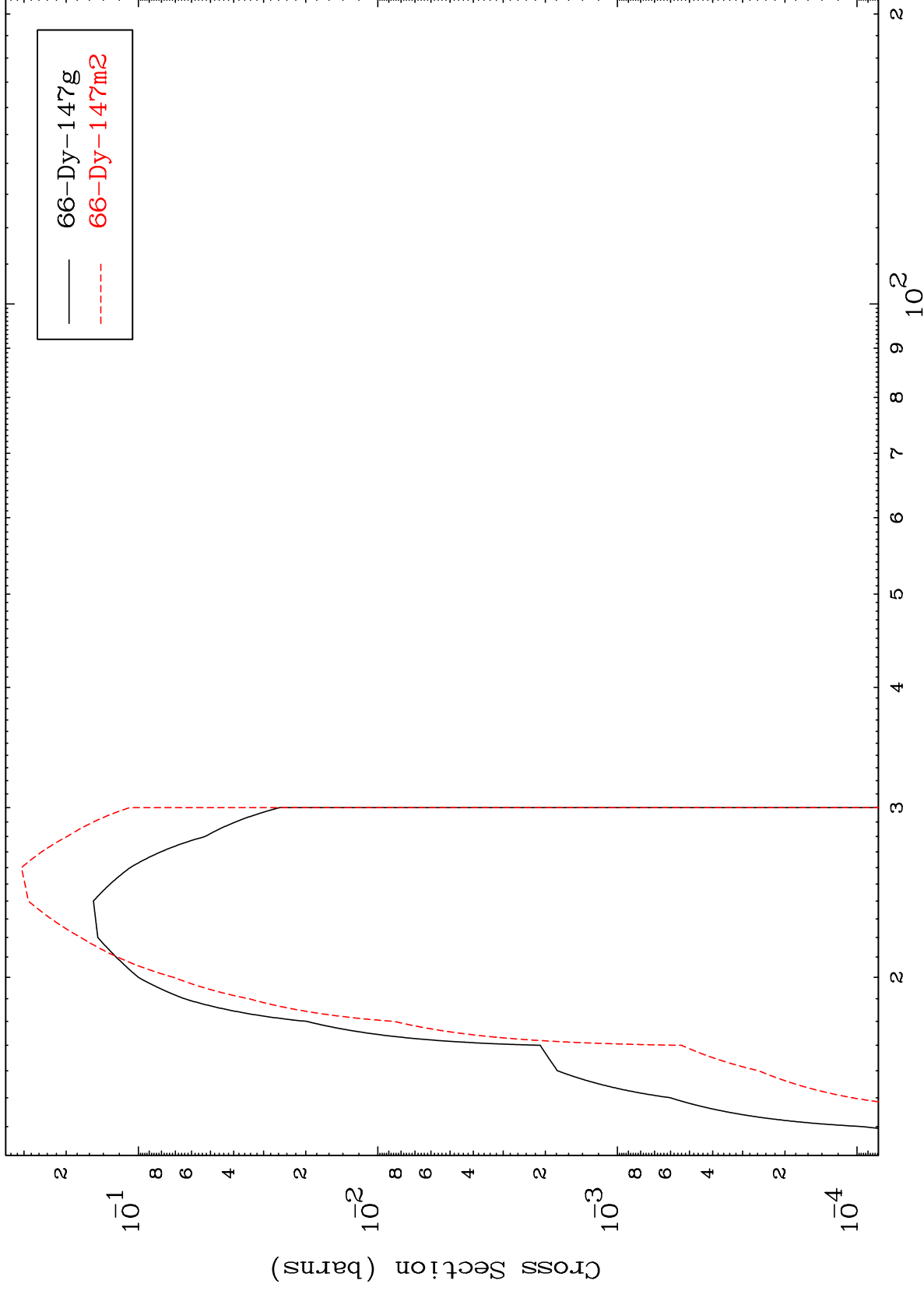


10

Incident Energy (MeV)

64-Gd-144

Inelastic  
Radionuclide Production Cross Section

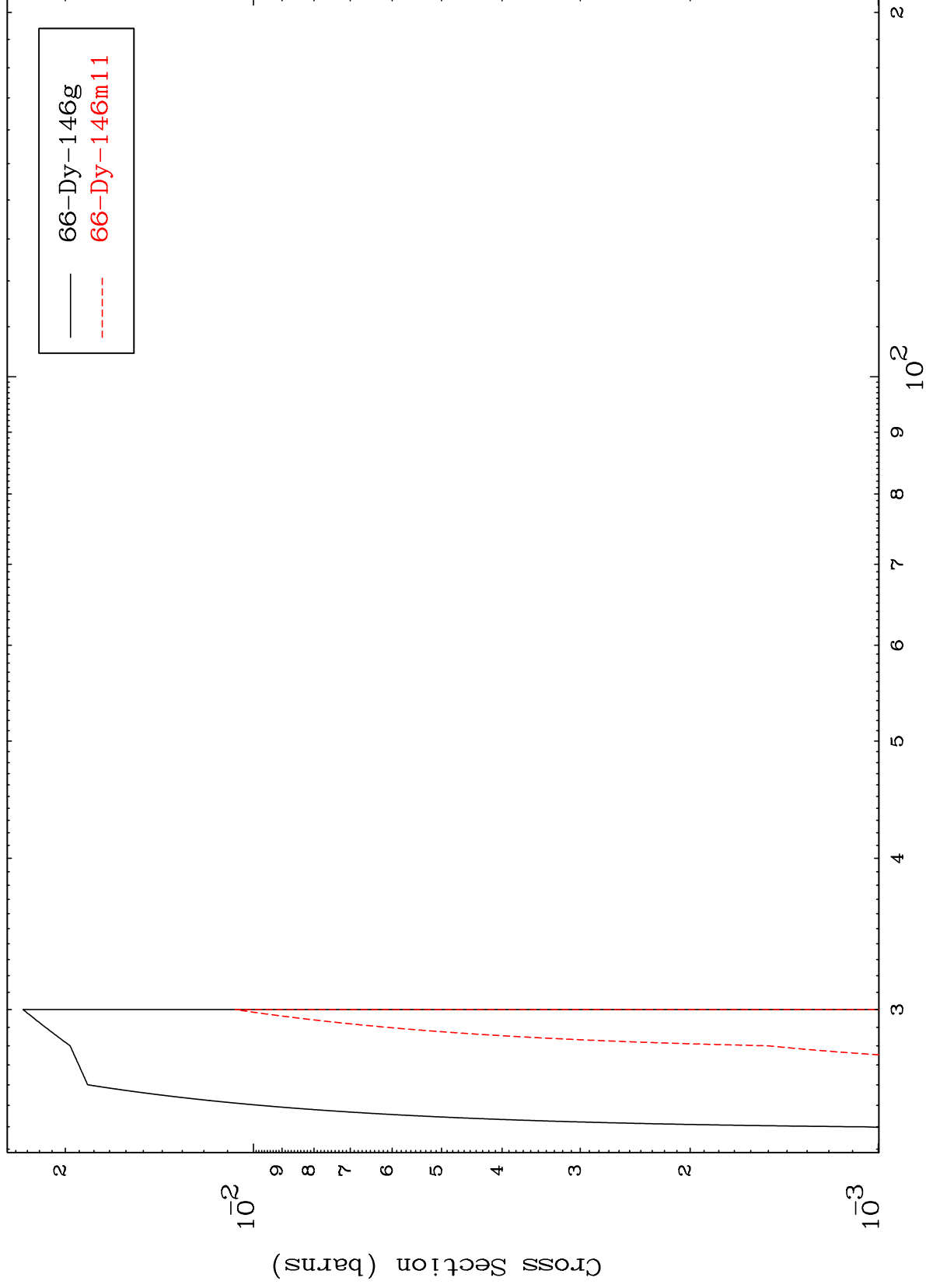


MAT 6401

(n,2n)

64-Gd-144

Radionuclide Production Cross Section



12

Incident Energy (MeV)

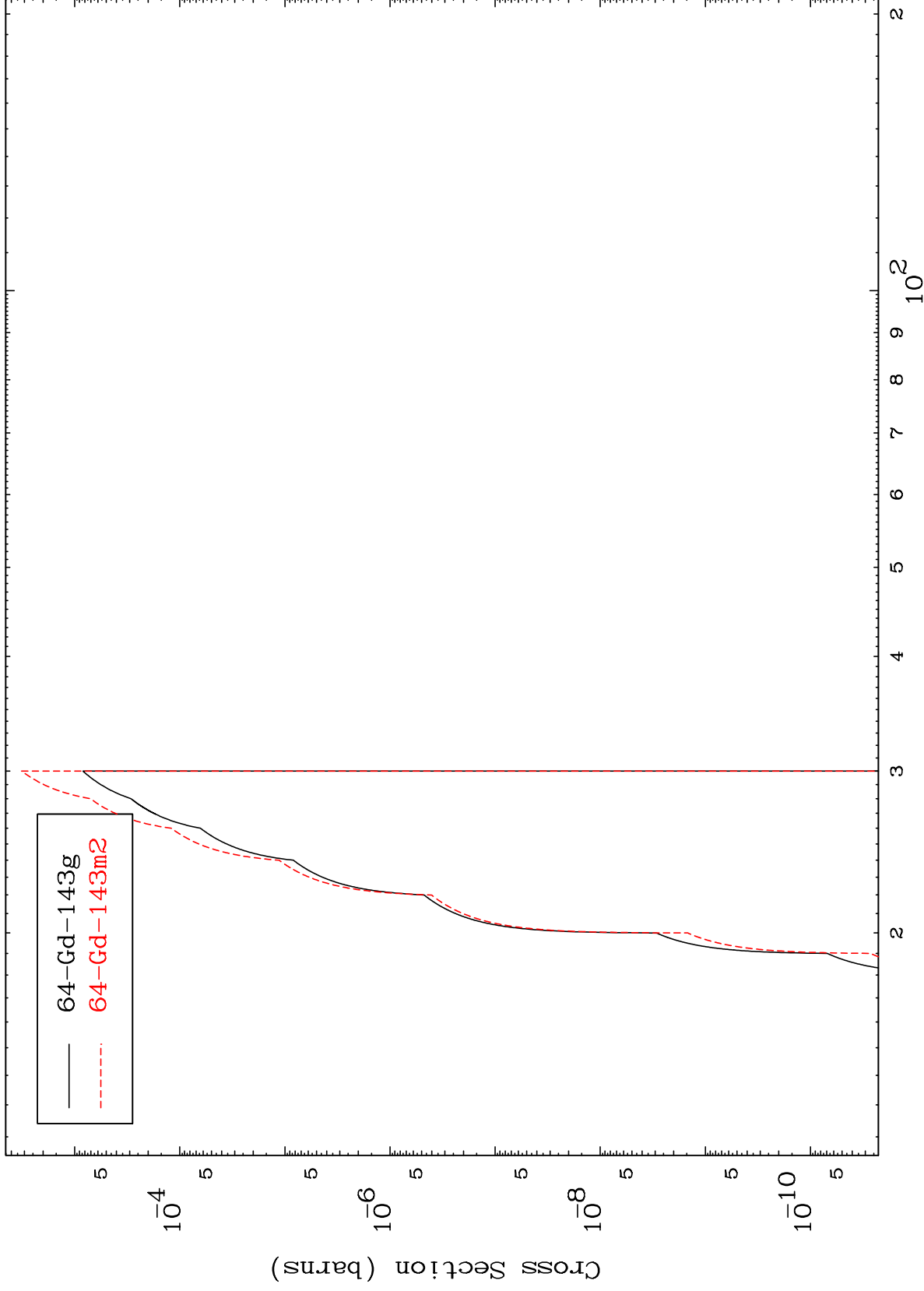
64-Gd-144

MAT 6401

(n,n')  $\alpha$

64-Gd-144

Radionuclide Production Cross Section

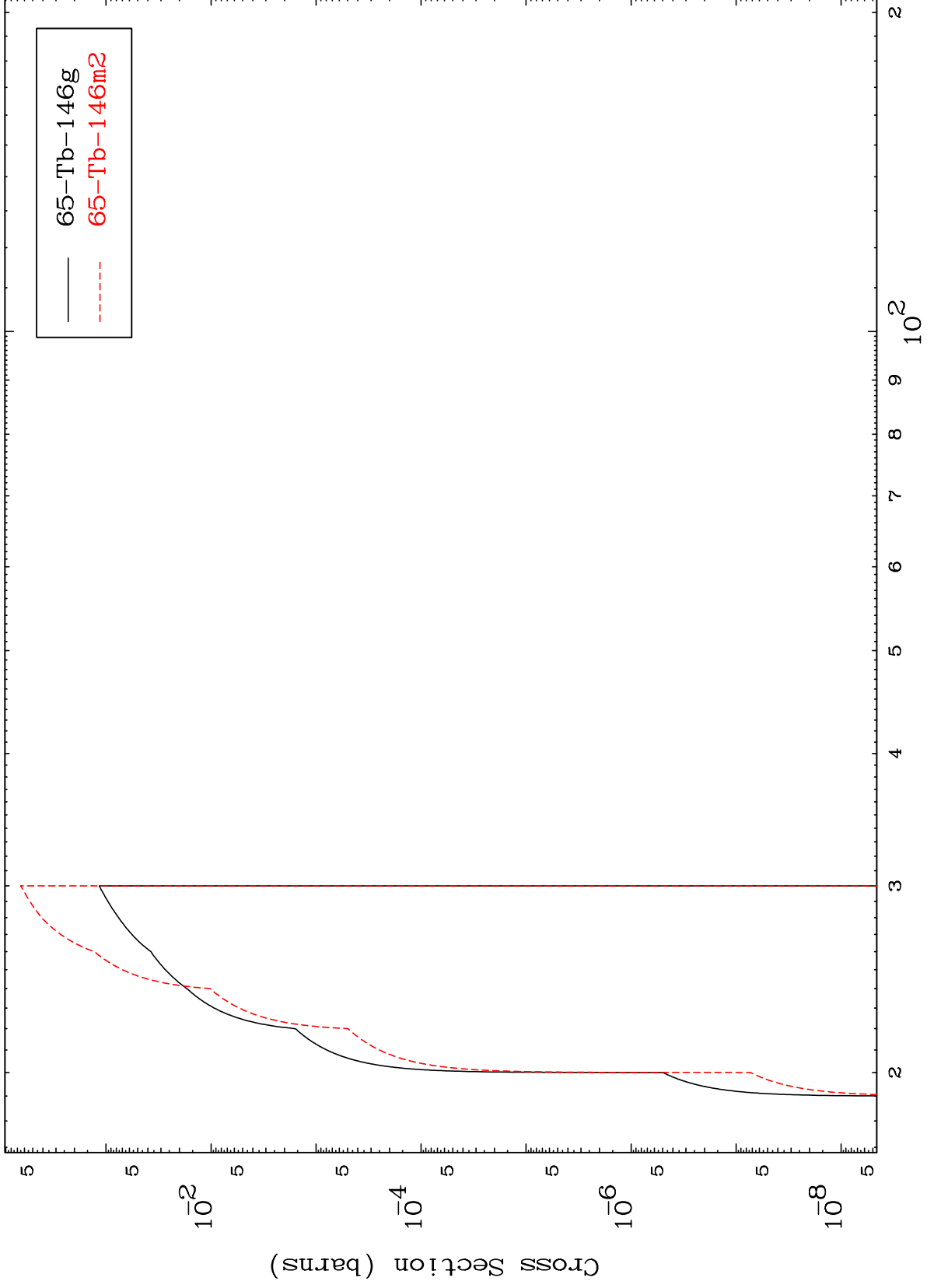


MAT 6401

(n,n') p

64-Gd-144

Radionuclide Production Cross Section



14

Incident Energy (MeV)

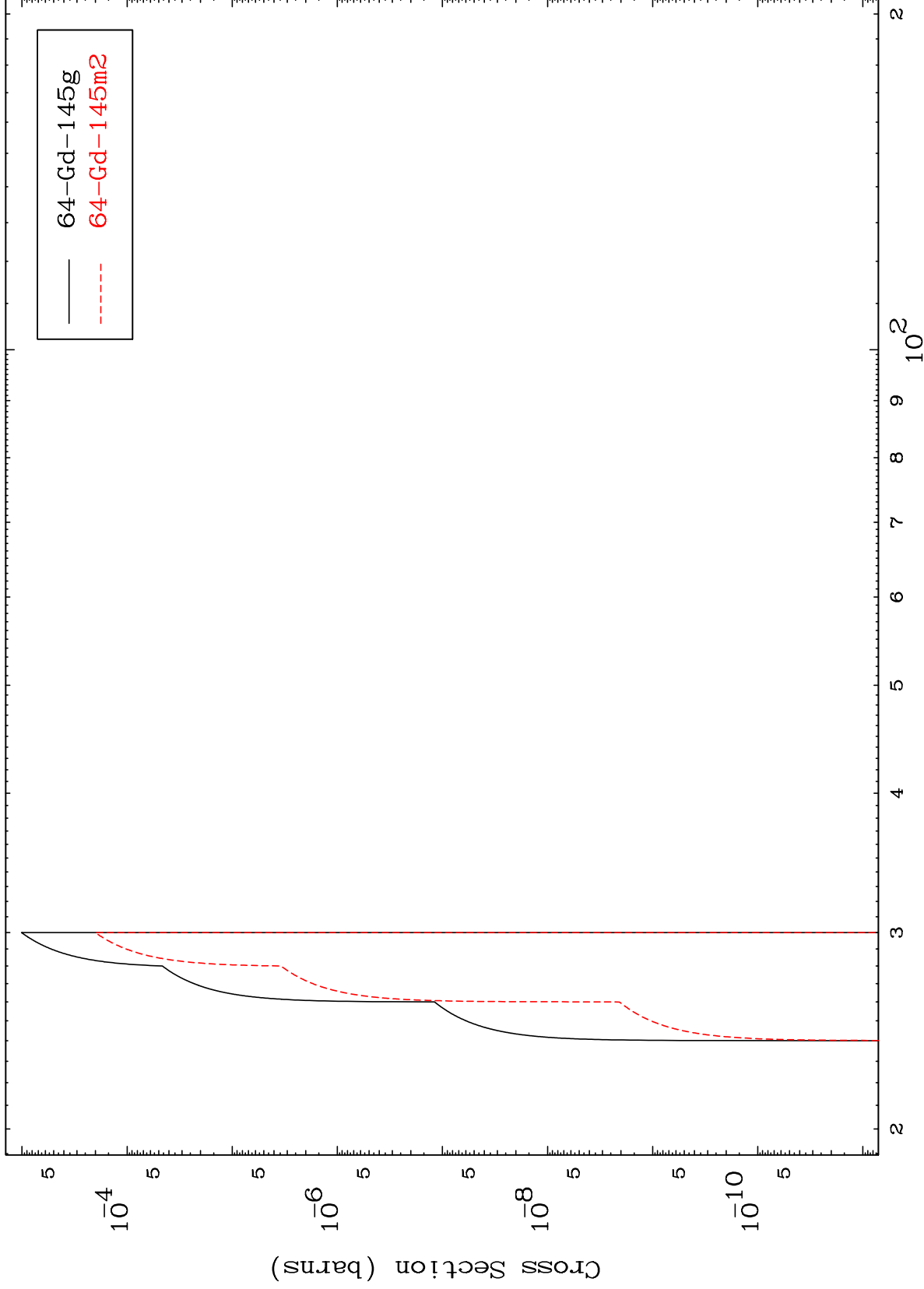
64-Gd-144

MAT 6401

(n,2n) p

64-Gd-144

Radionuclide Production Cross Section



15

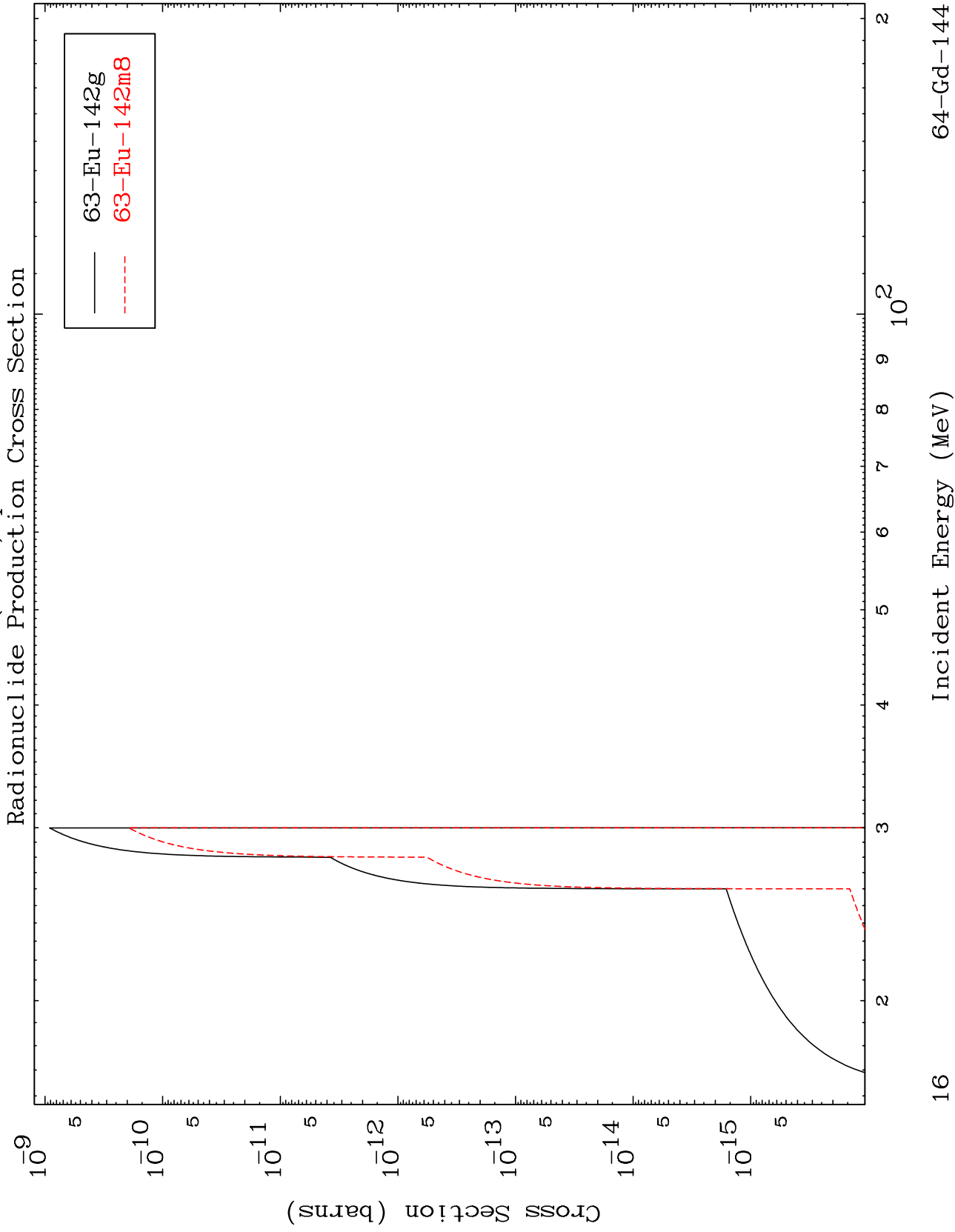
Incident Energy (MeV)

64-Gd-144

MAT 6401

(n,n') p  $\alpha$

64-Gd-144



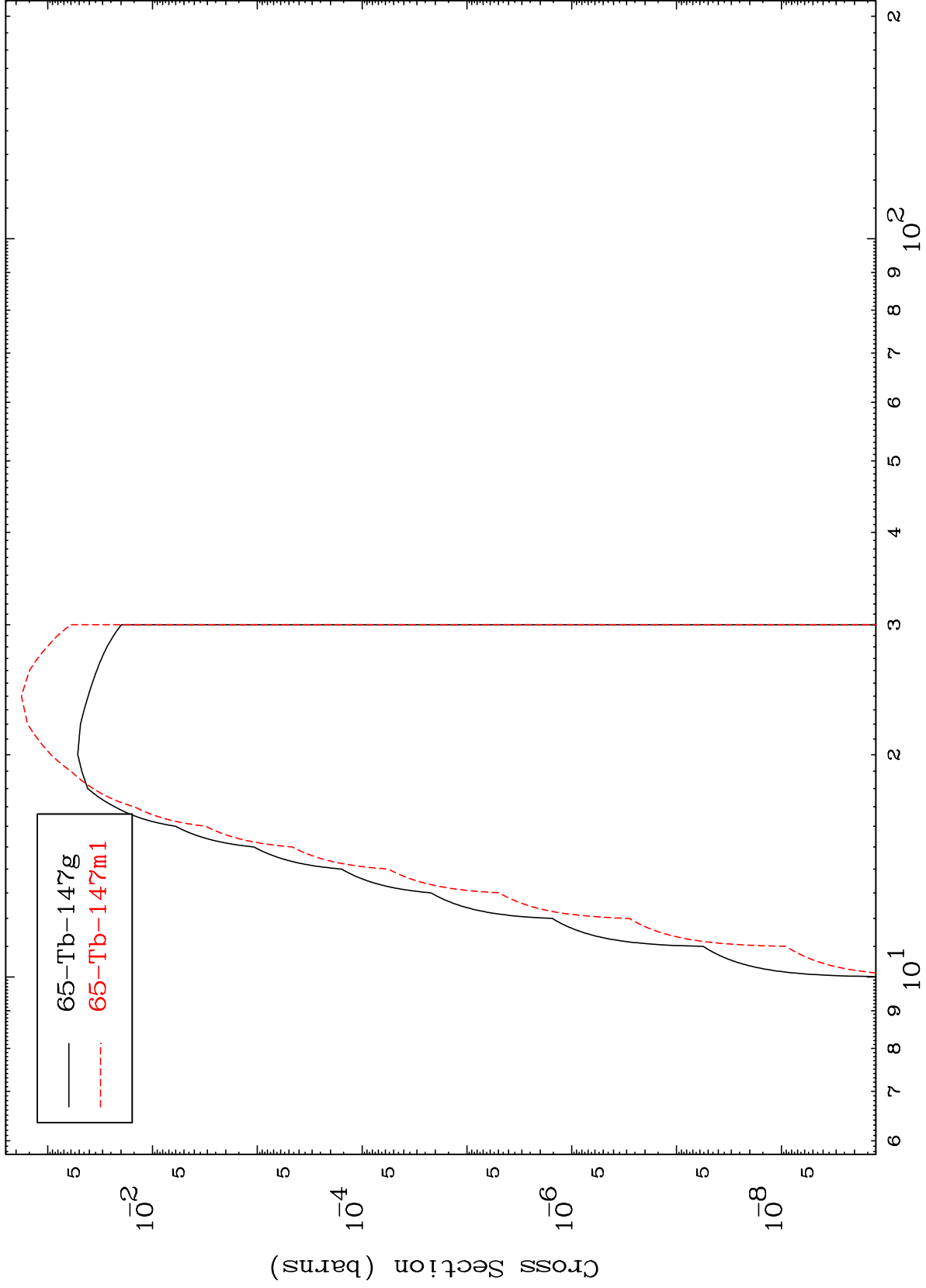
16

64-Gd-144

MAT 6401

64-Gd-144

(n,p)  
Radionuclide Production Cross Section

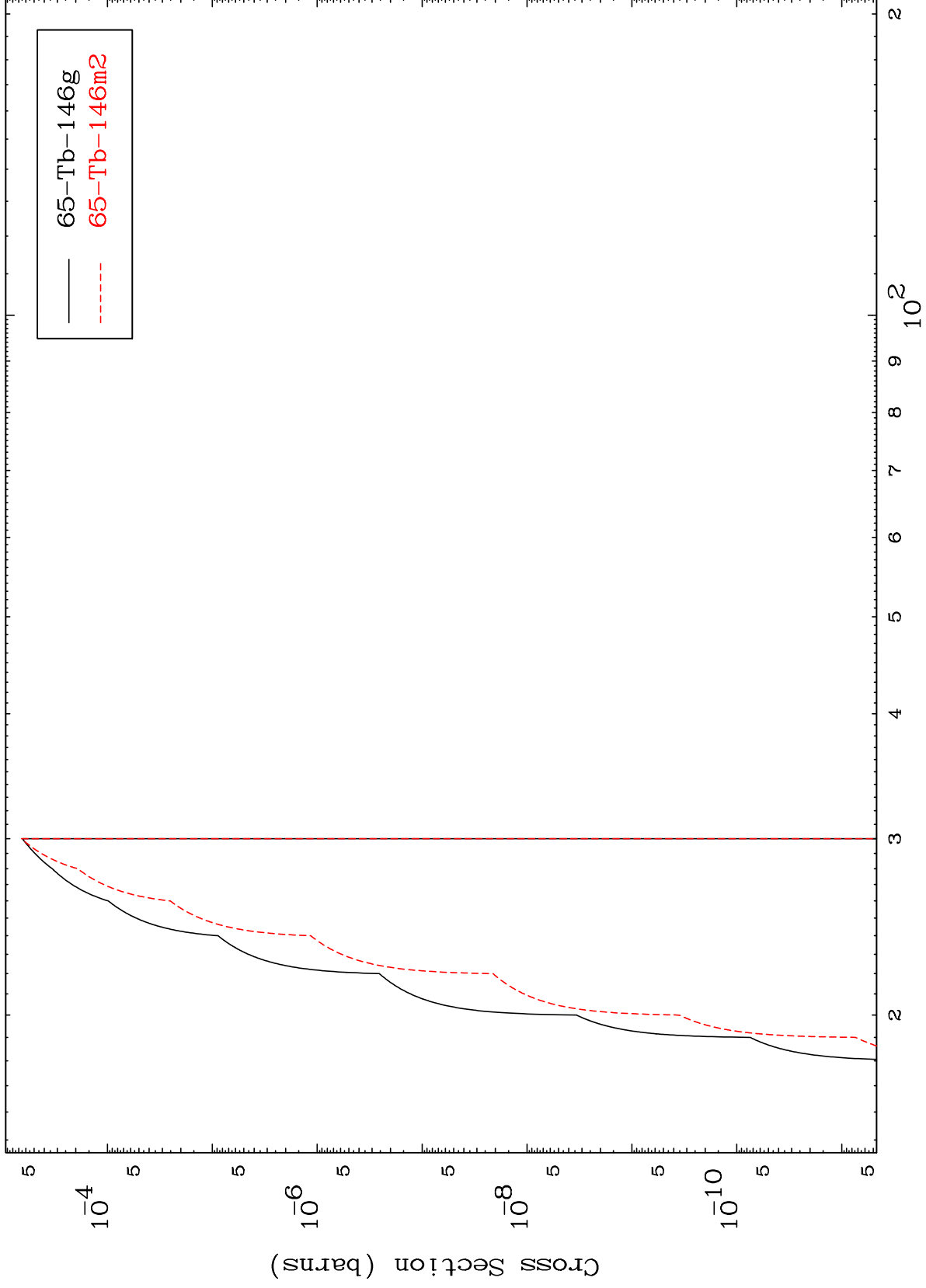


17

Incident Energy (MeV)

64-Gd-144

(n,d)  
Radionuclide Production Cross Section



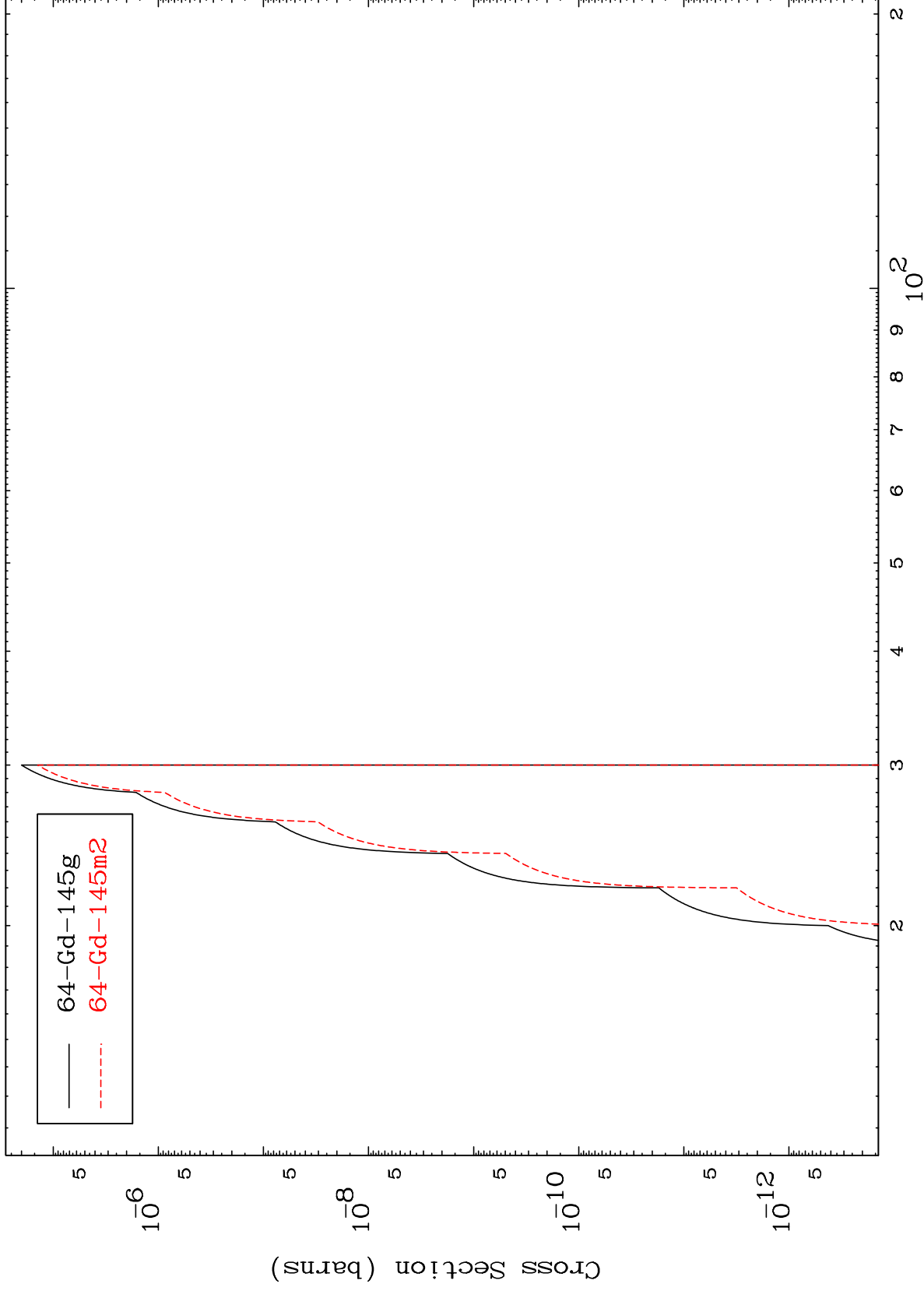
65-Tb-146g  
65-Tb-146m2

MAT 6401

(n,He-3)

64-Gd-144

Radionuclide Production Cross Section



19

Incident Energy (MeV)

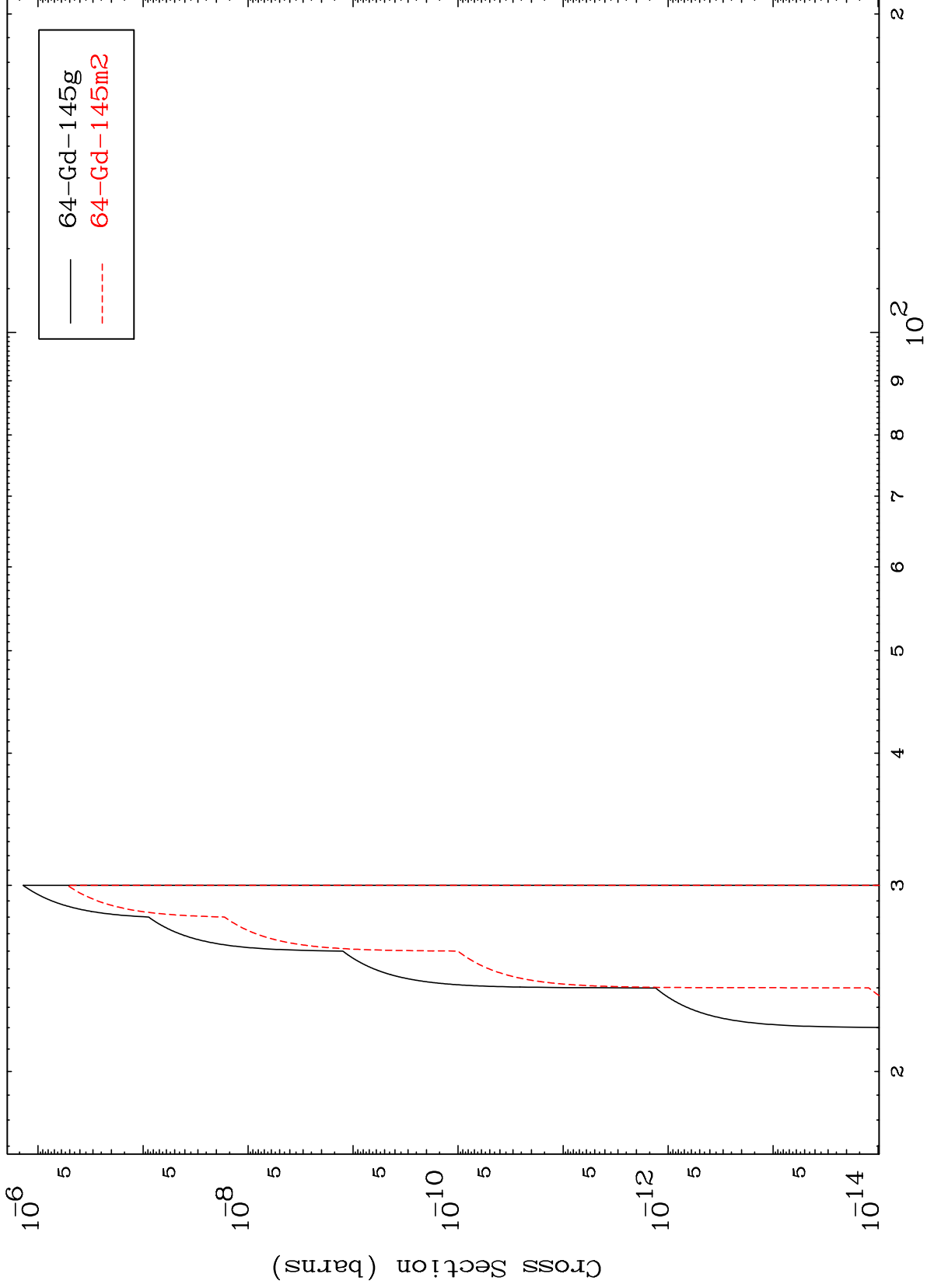
64-Gd-144

MAT 6401

(n,p) d

64-Gd-144

Radionuclide Production Cross Section



20

Incident Energy (MeV)

64-Gd-144