

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

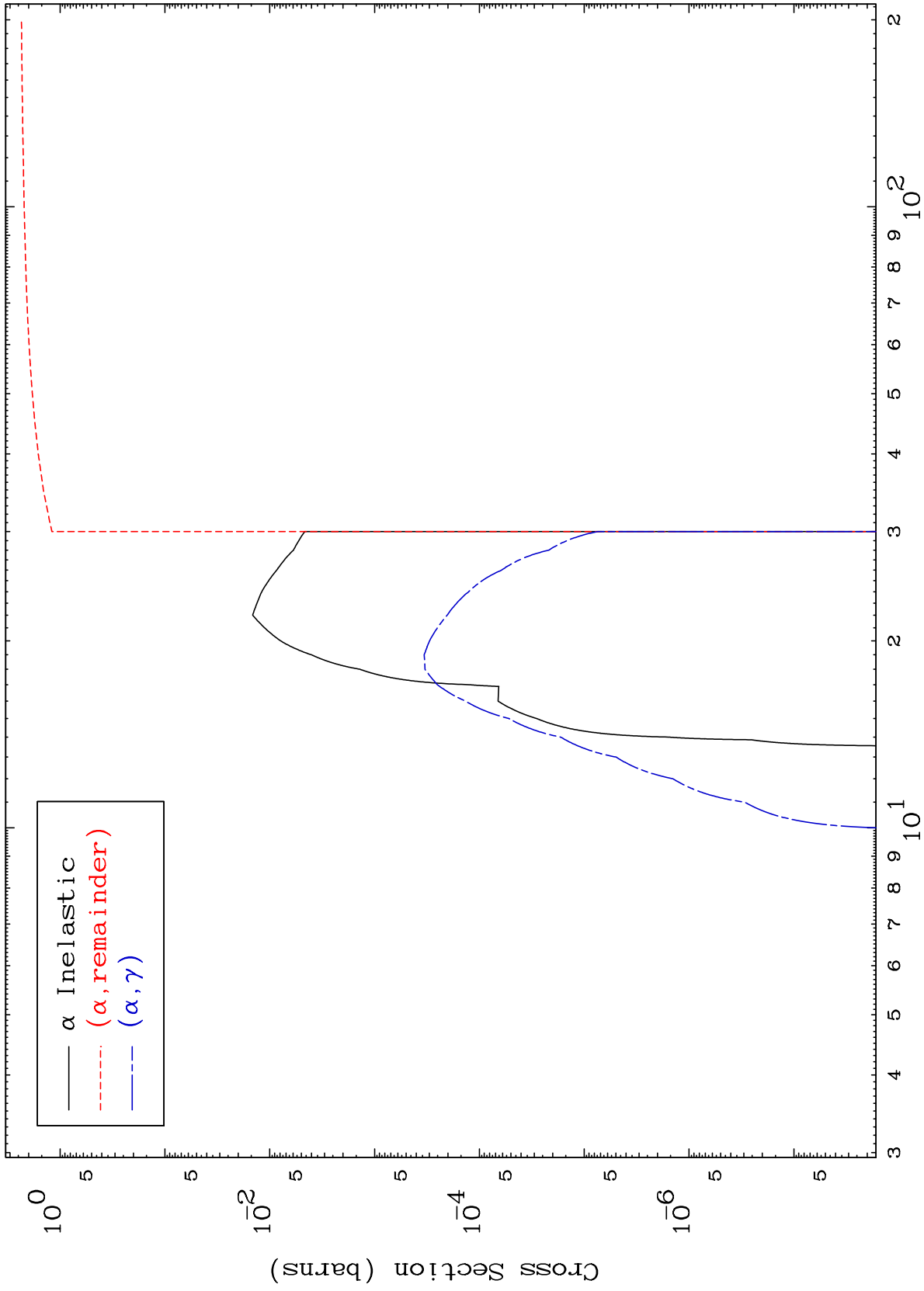
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6386

0 Kelvin  $\alpha$  Major  
Cross Sections

64-Gd-139



1

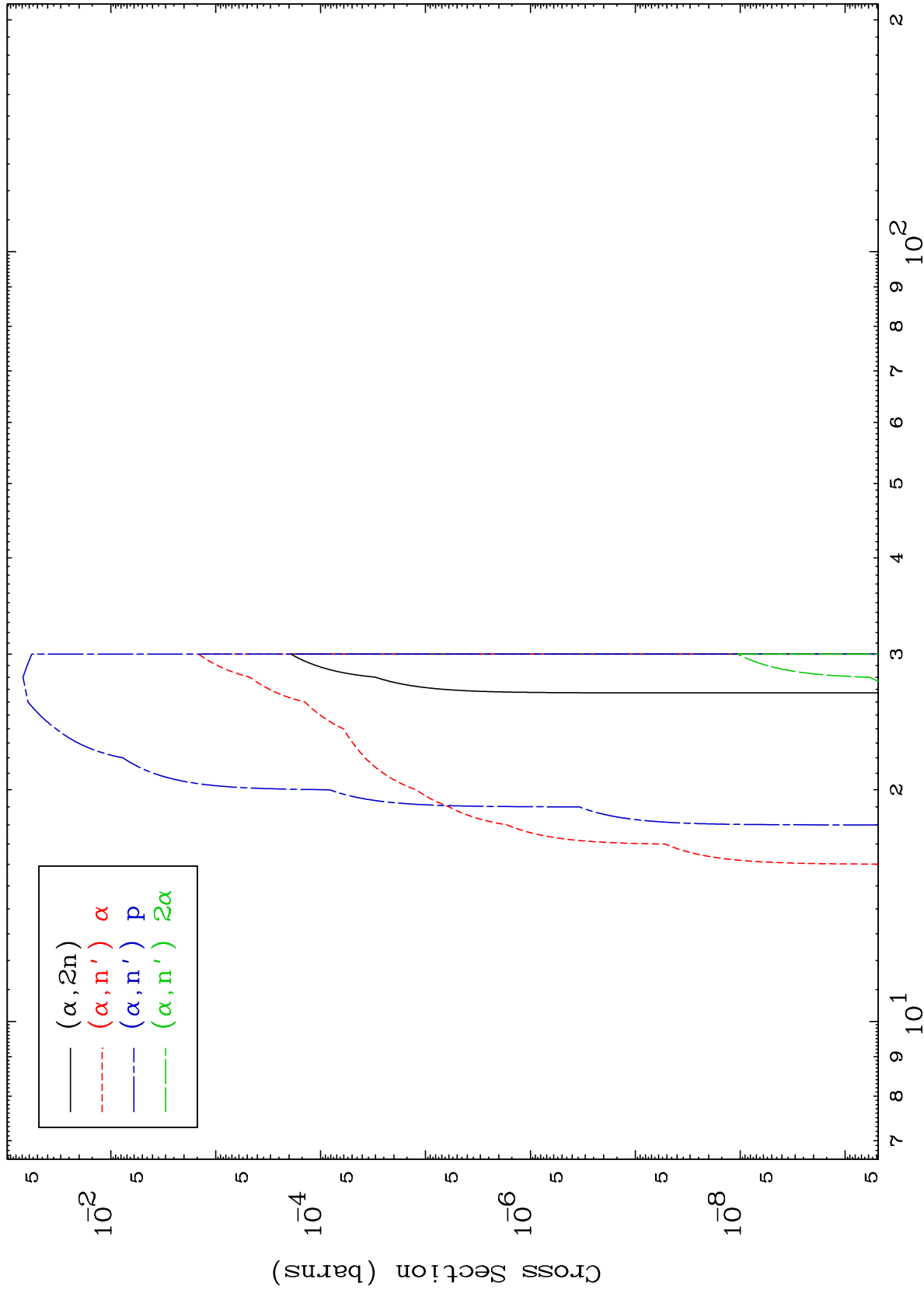
Incident Energy (MeV)

64-Gd-139

MAT 6386

$\alpha$  Neutron Production  
0 Kelvin Cross Sections

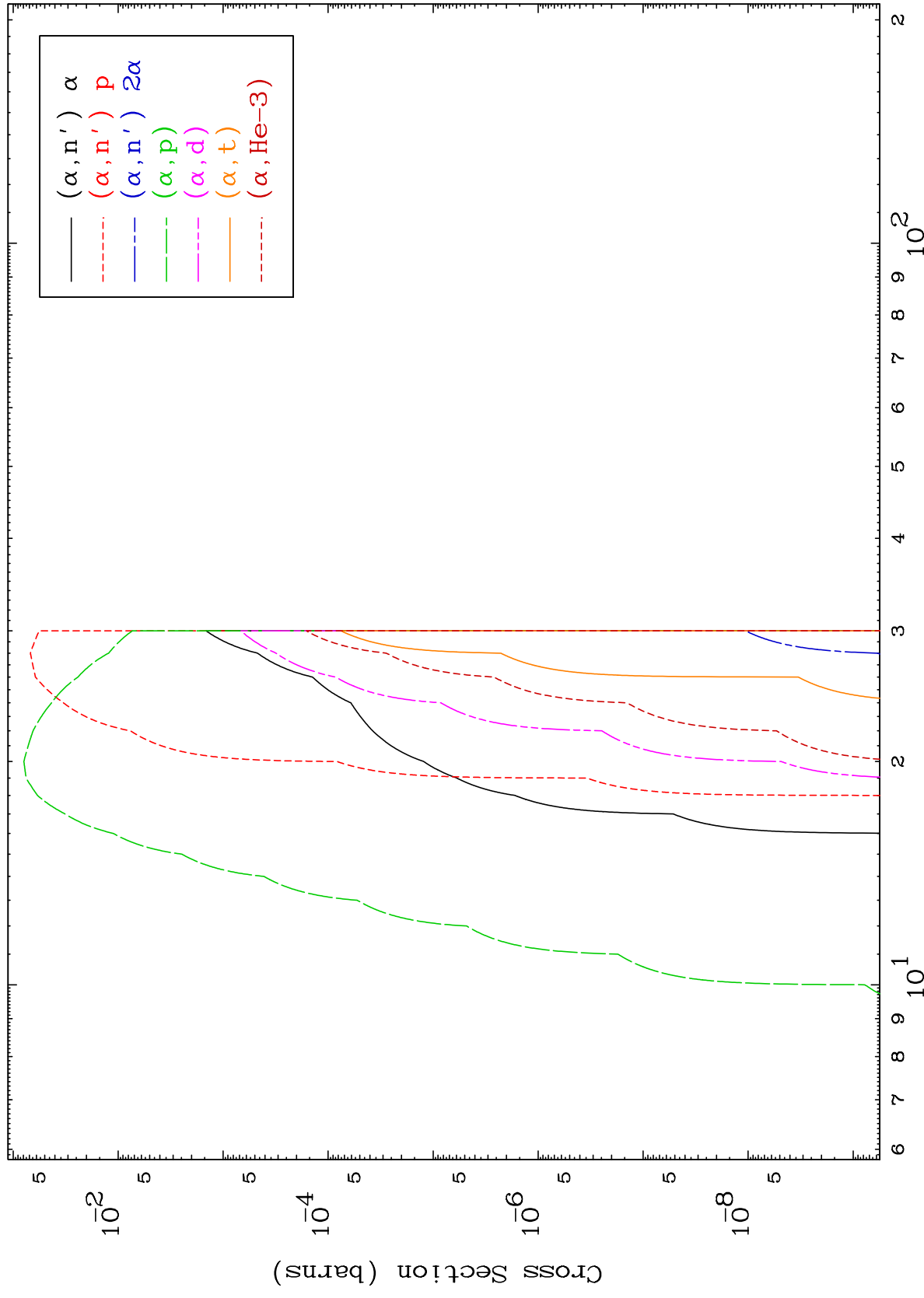
64-Gd-139



2

Incident Energy (MeV)

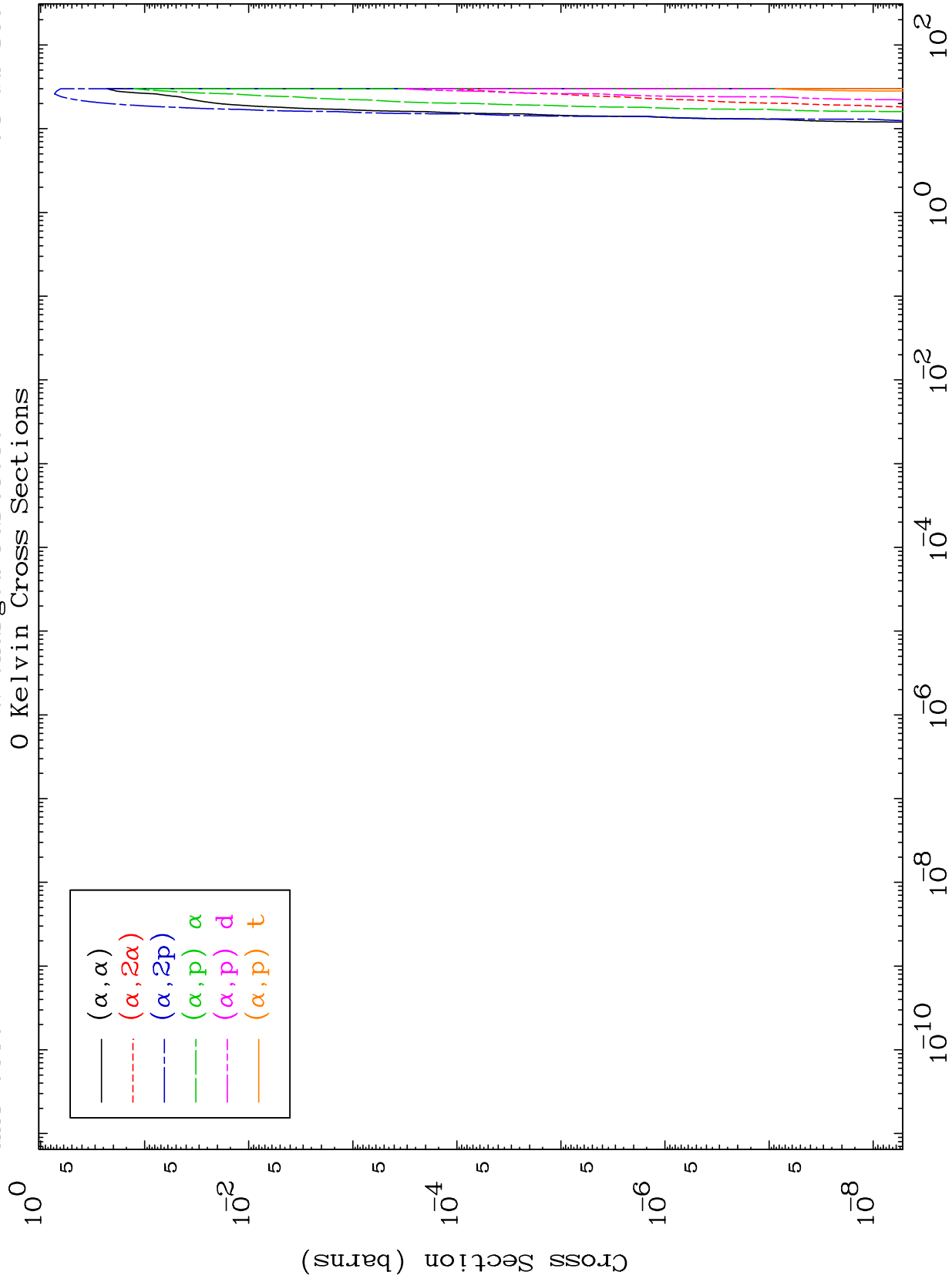
64-Gd-139



MAT 6386

$\alpha$  Charged Particle  
0 Kelvin Cross Sections

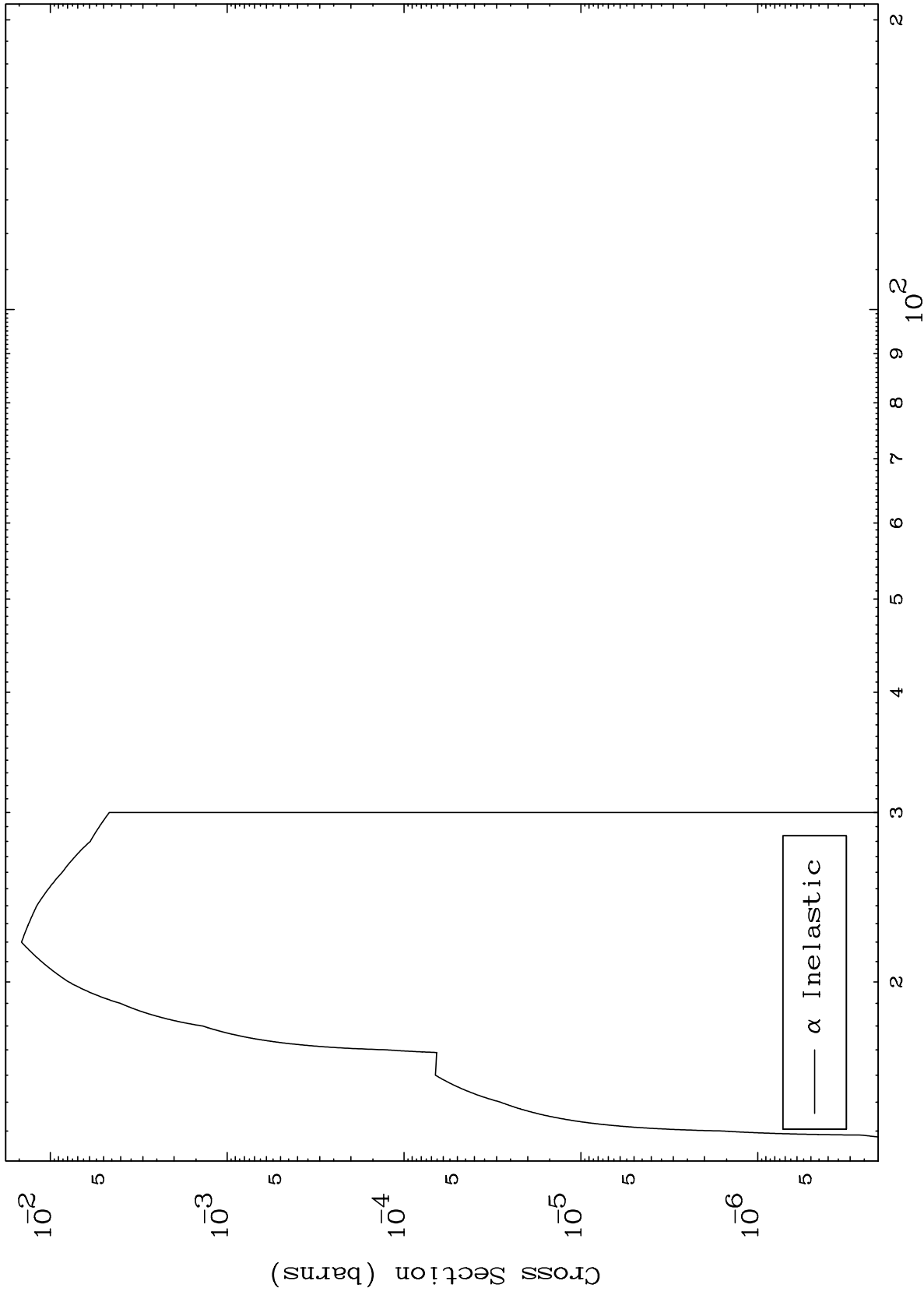
64-Gd-139



MAT 6386

( $\alpha, n'$ ) Level  
0 Kelvin Cross Sections

64-Gd-139



5

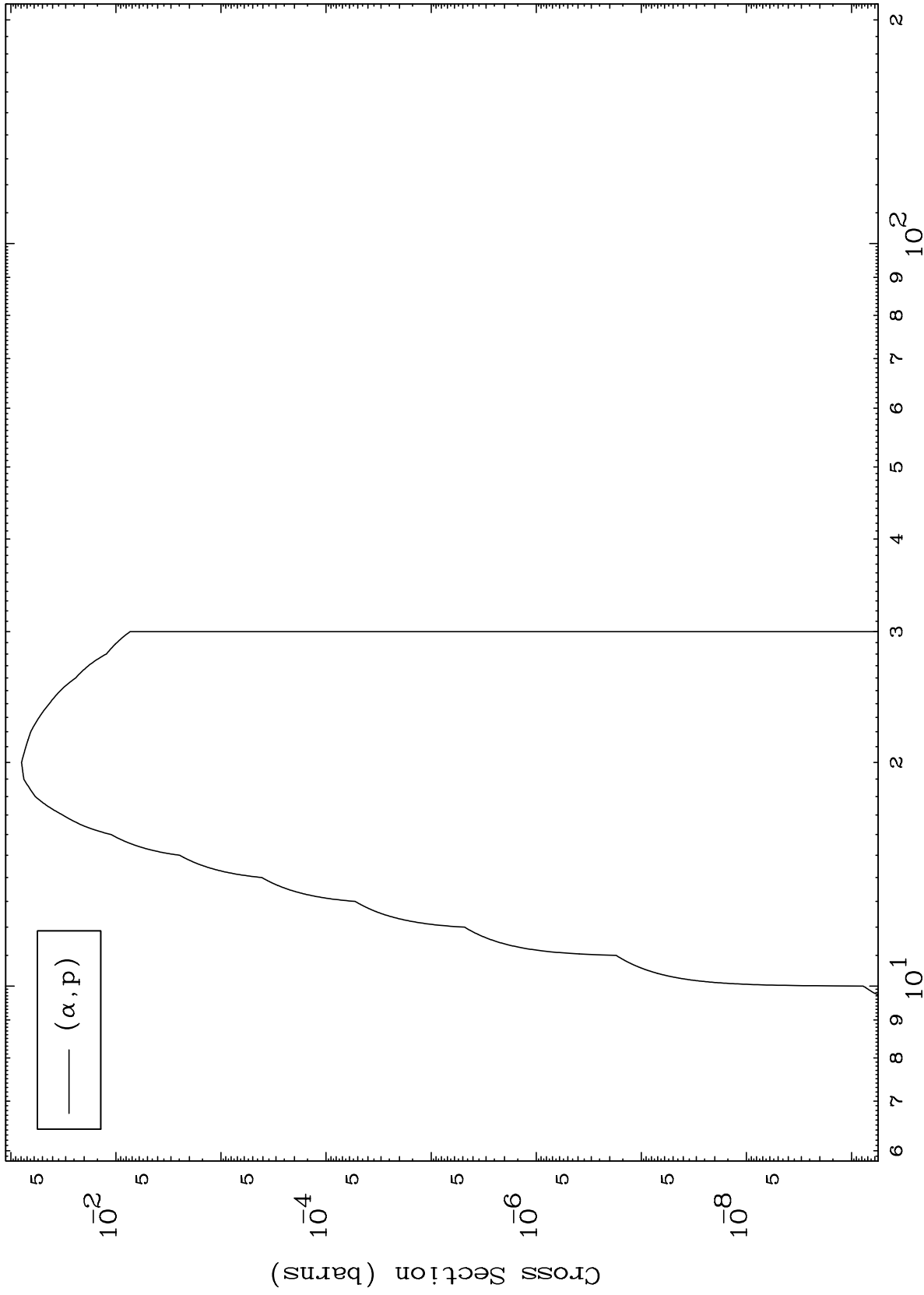
Incident Energy (MeV)

64-Gd-139

MAT 6386

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

64-Gd-139



6

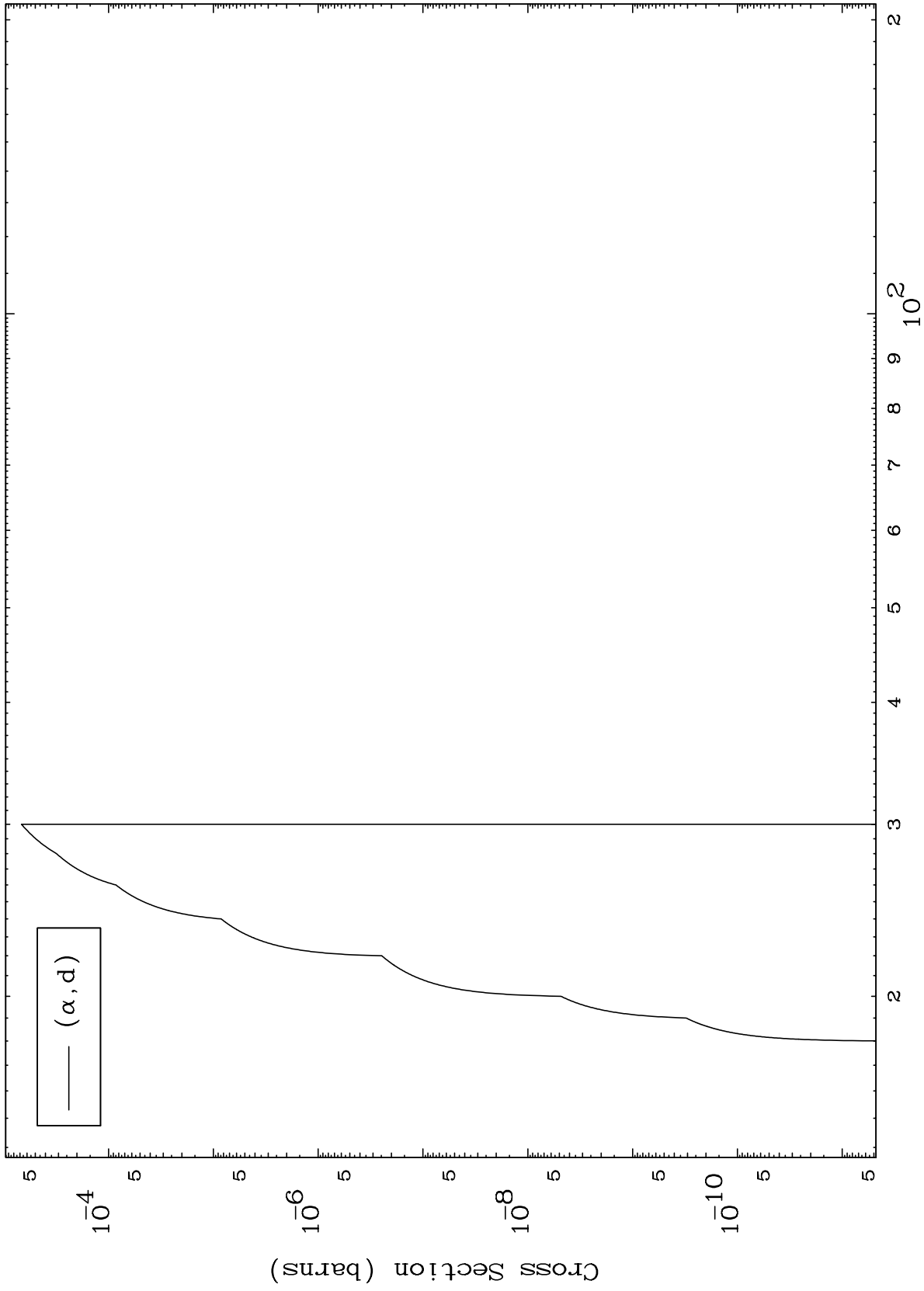
Incident Energy (MeV)

64-Gd-139

MAT 6386

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

64-Gd-139



7

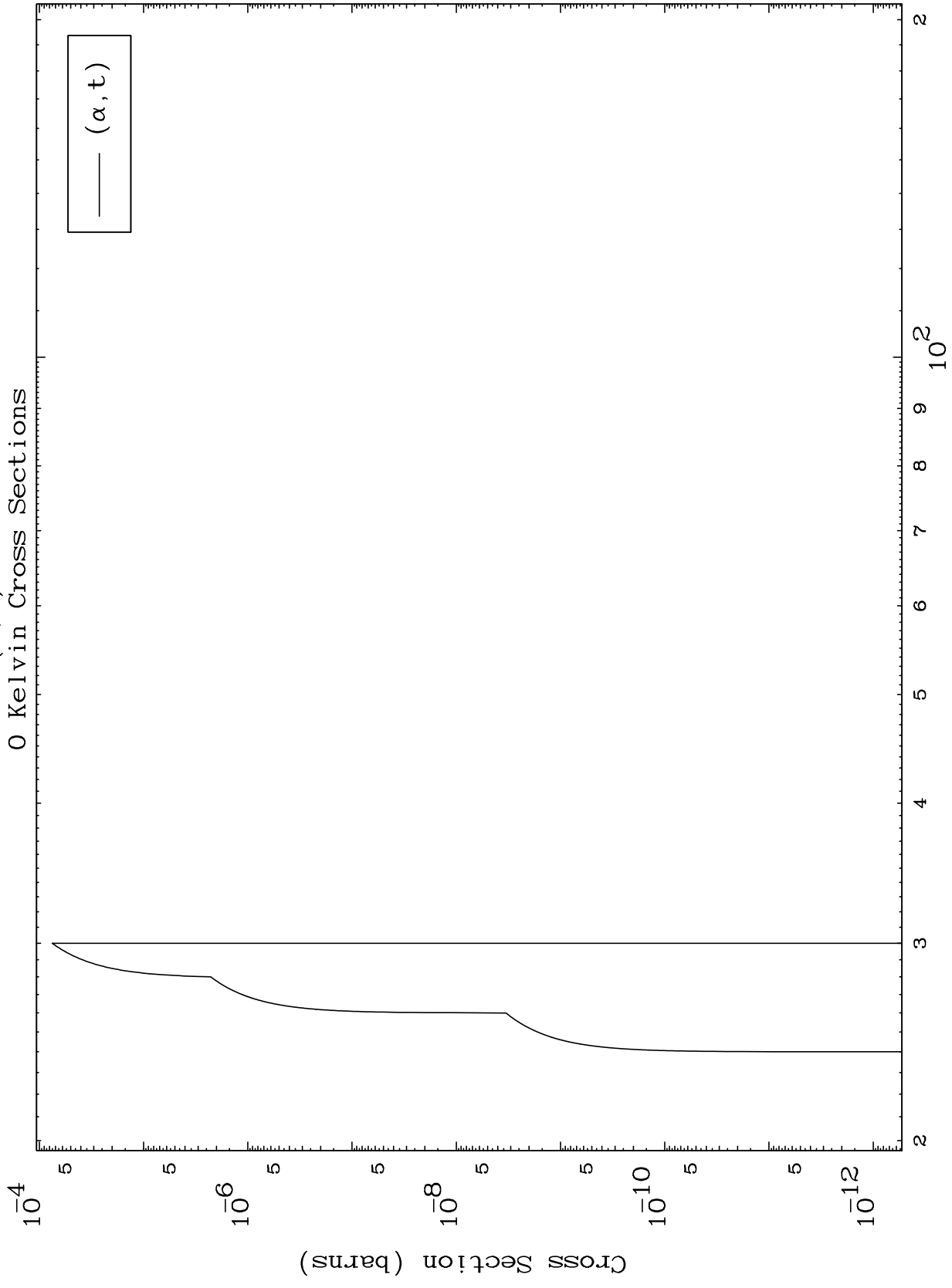
Incident Energy (MeV)

64-Gd-139

MAT 6386

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

64-Gd-139



8

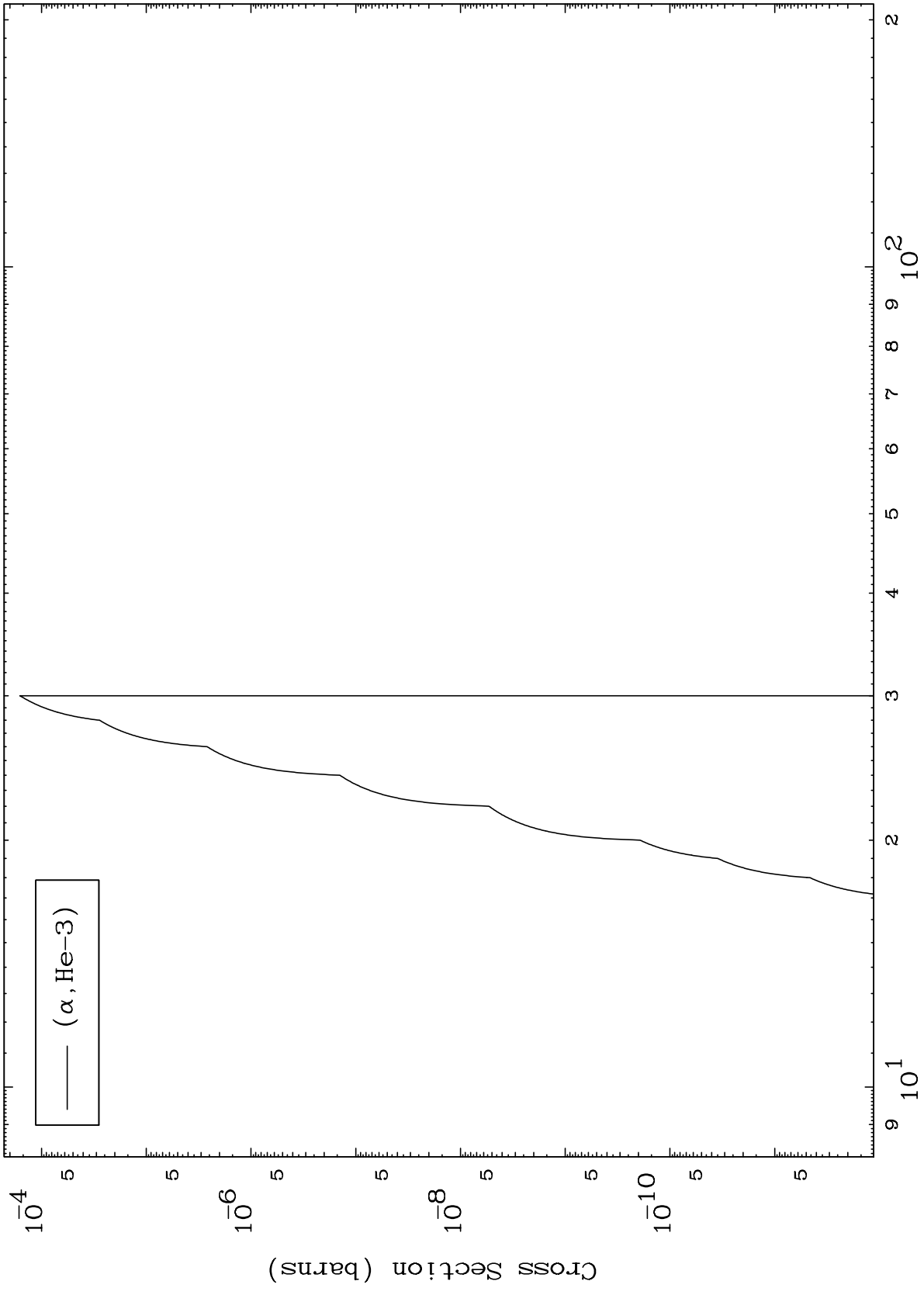
Incident Energy (MeV)

64-Gd-139

MAT 6386

( $\alpha$ ,He3) Levels  
0 Kelvin Cross Sections

64-Gd-139



9

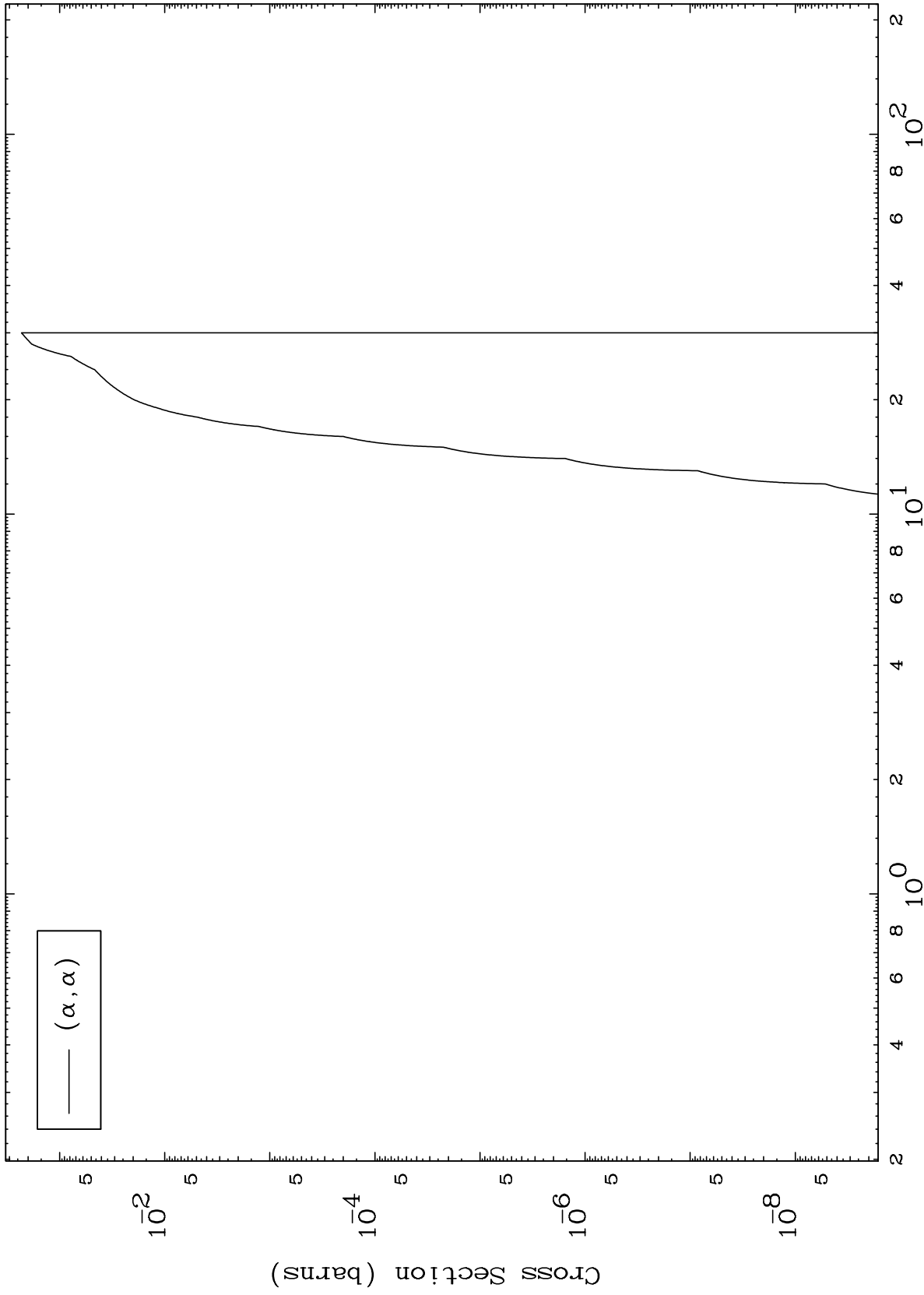
Incident Energy (MeV)

64-Gd-139

MAT 6386

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

64-Gd-139



10

Incident Energy (MeV)

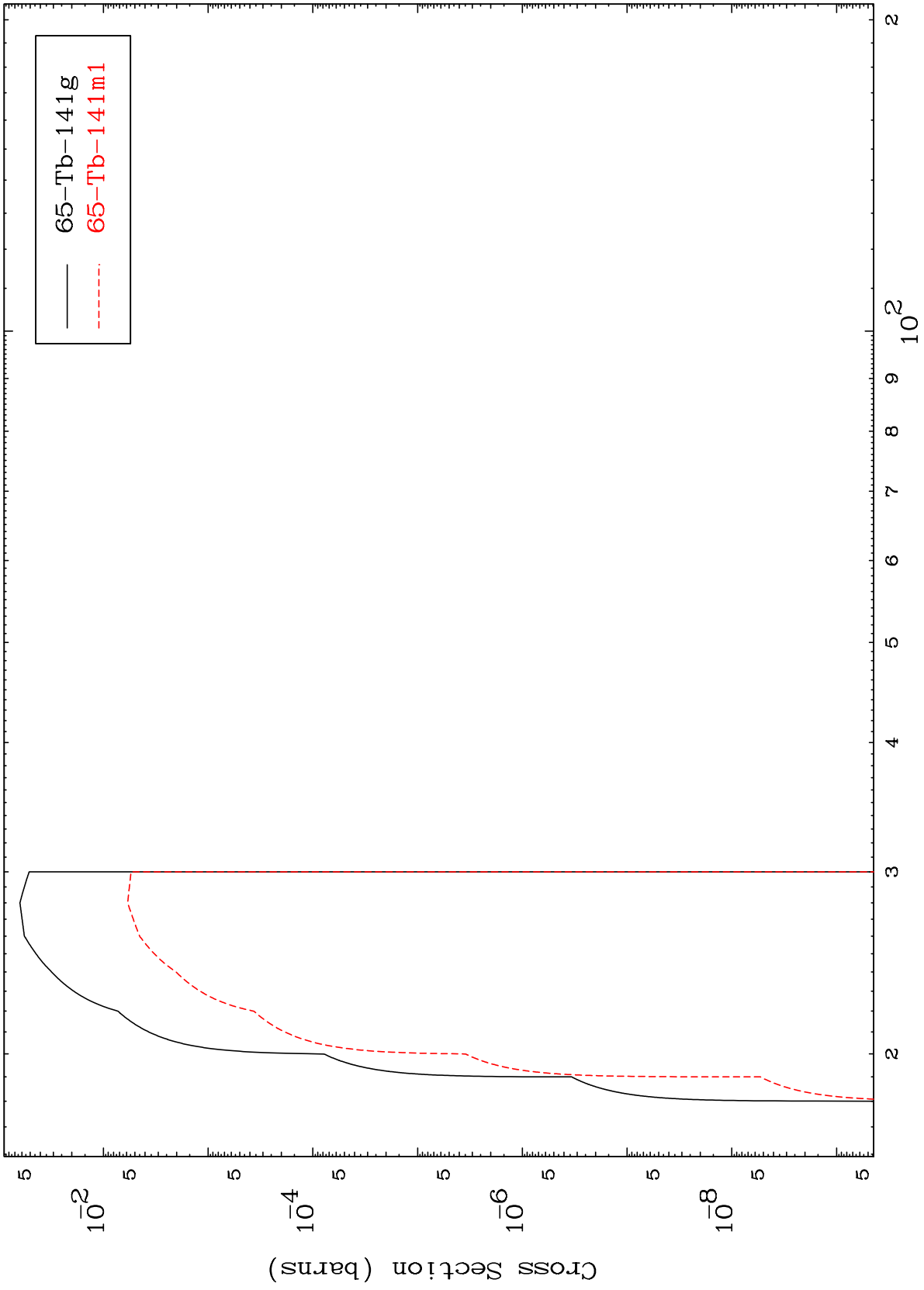
64-Gd-139

MAT 6386

$(\alpha, n')$  p

64-Gd-139

Radionuclide Production Cross Section



11

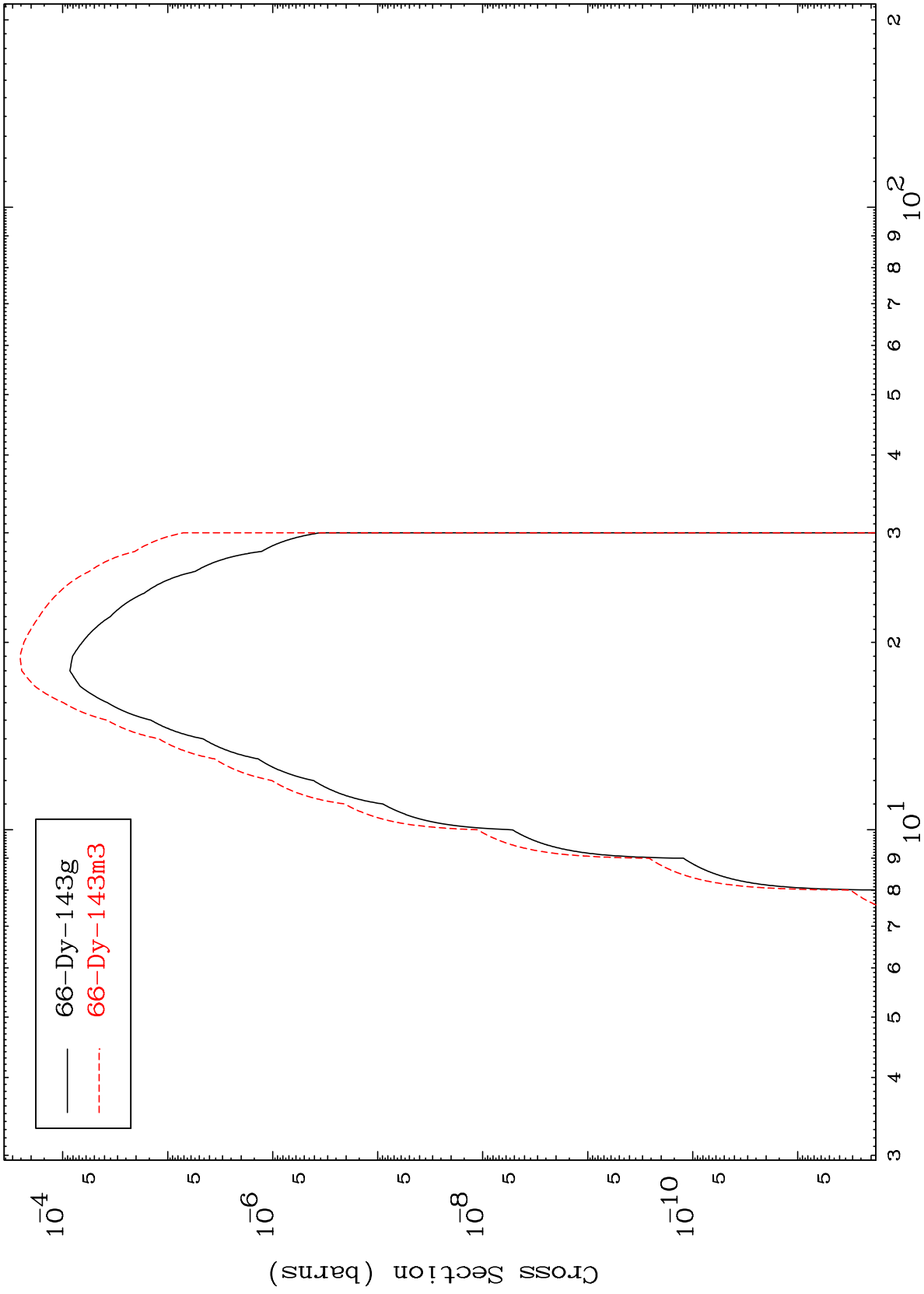
Incident Energy (MeV)

64-Gd-139

MAT 6386

64-Gd-139

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



12

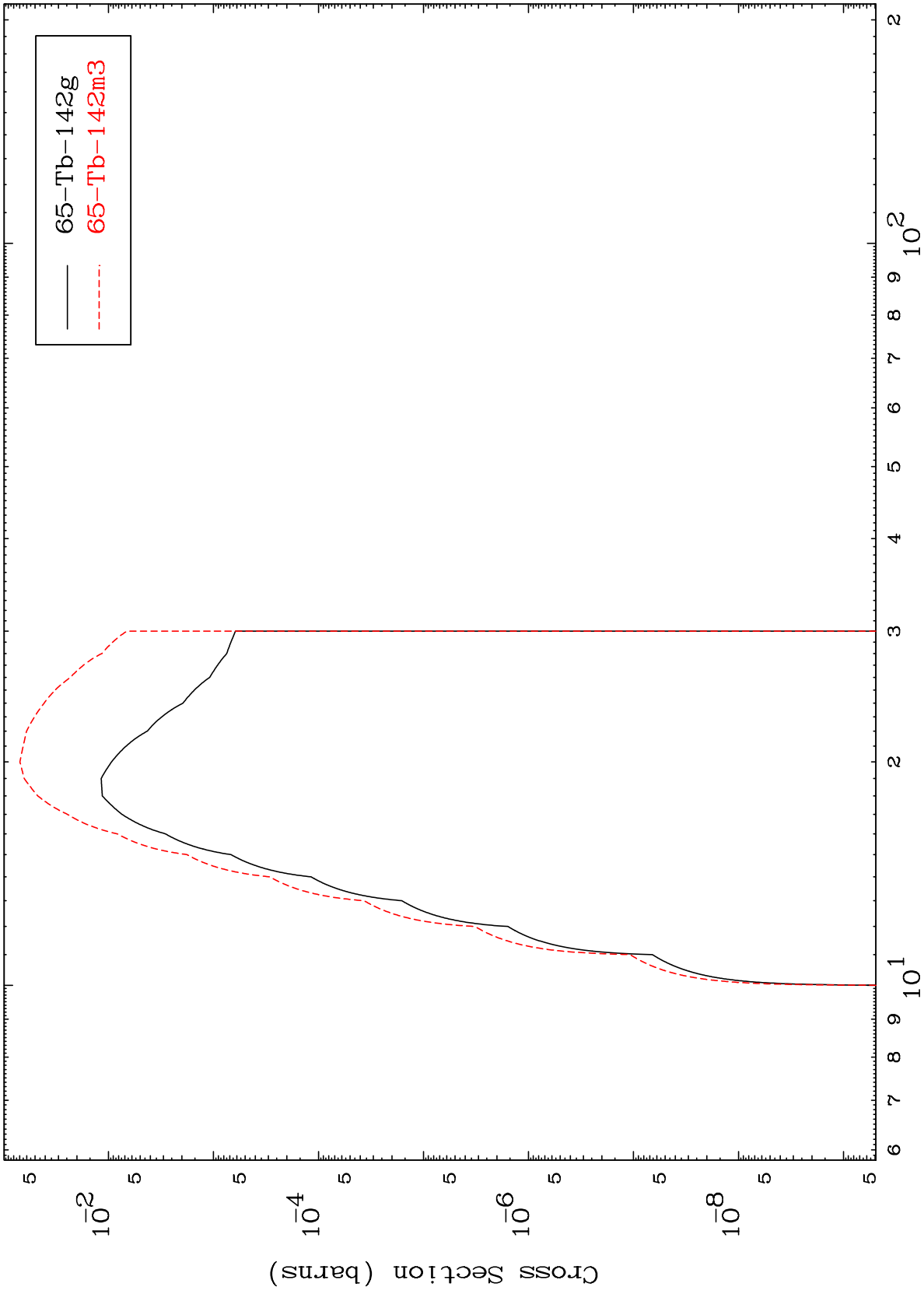
Incident Energy (MeV)

64-Gd-139

MAT 6386

64-Gd-139

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



13

Incident Energy (MeV)

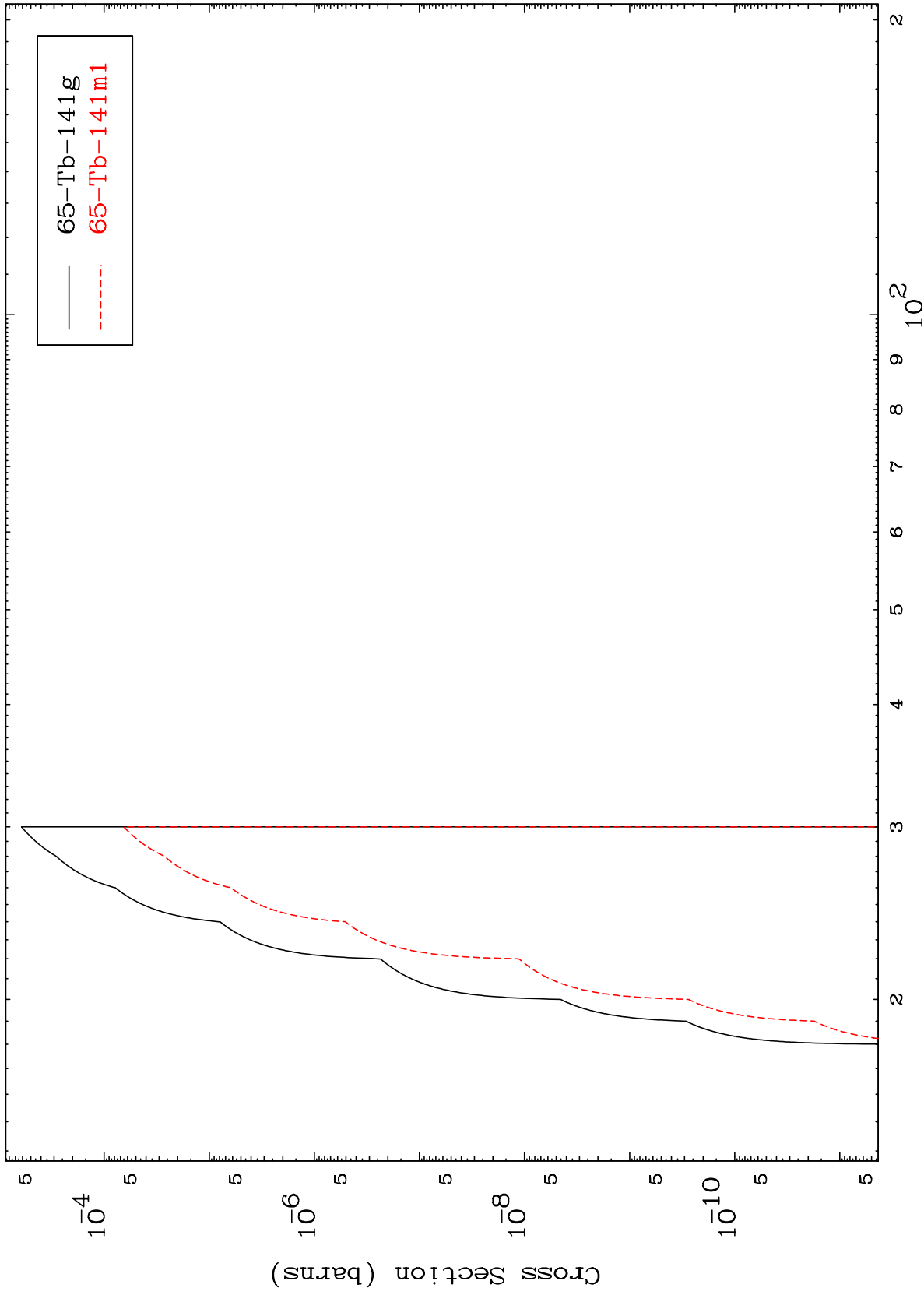
64-Gd-139

MAT 6386

( $\alpha, d$ )

$^{64}\text{Gd}-139$

Radionuclide Production Cross Section



14

Incident Energy (MeV)

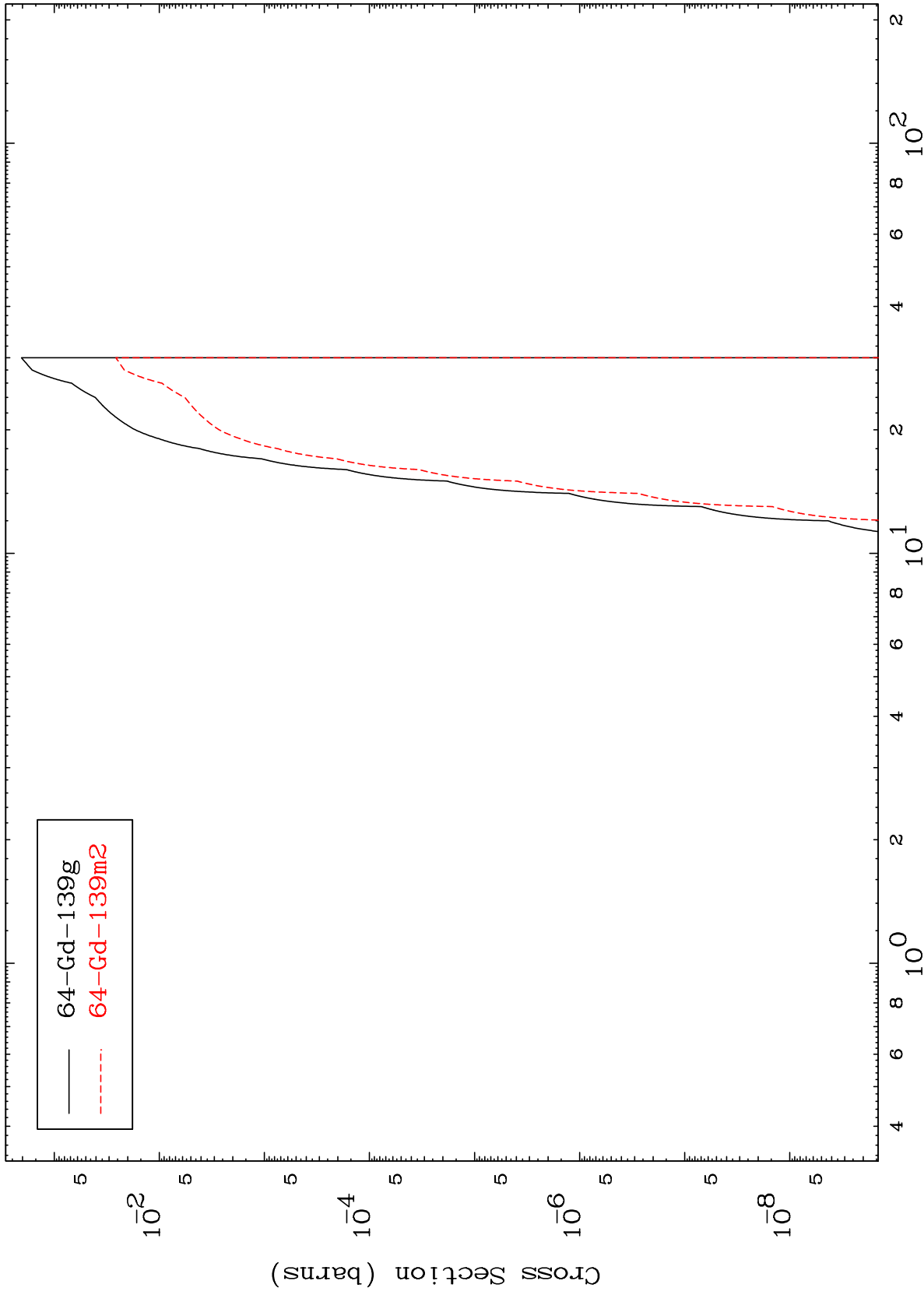
$^{64}\text{Gd}-139$

MAT 6386

( $\alpha, \alpha$ )

64-Gd-139

Radionuclide Production Cross Section



15

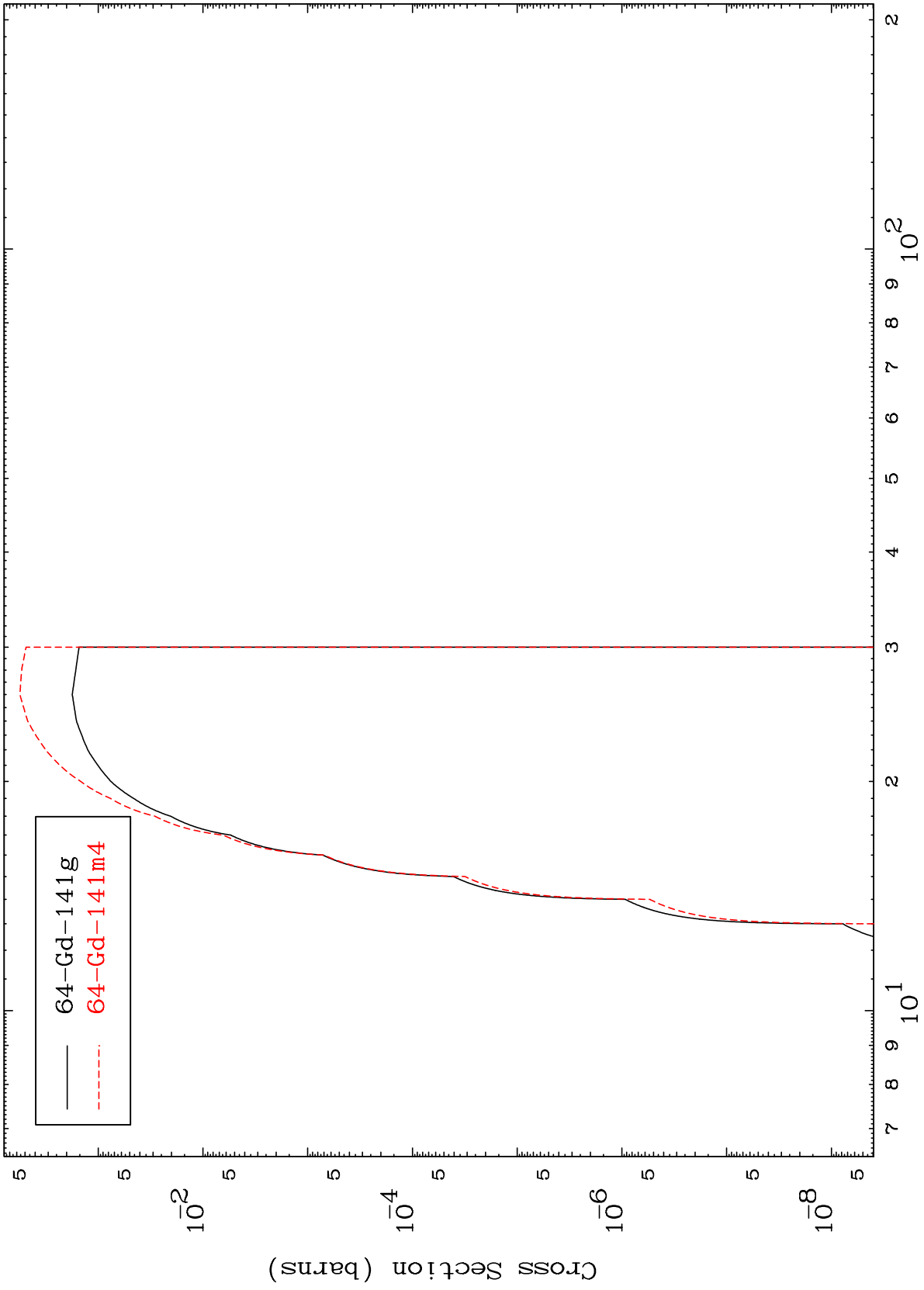
Incident Energy (MeV)

64-Gd-139

MAT 6386

64-Gd-139

Radionuclide Production Cross Section  
( $\alpha, 2p$ )



16

Incident Energy (MeV)

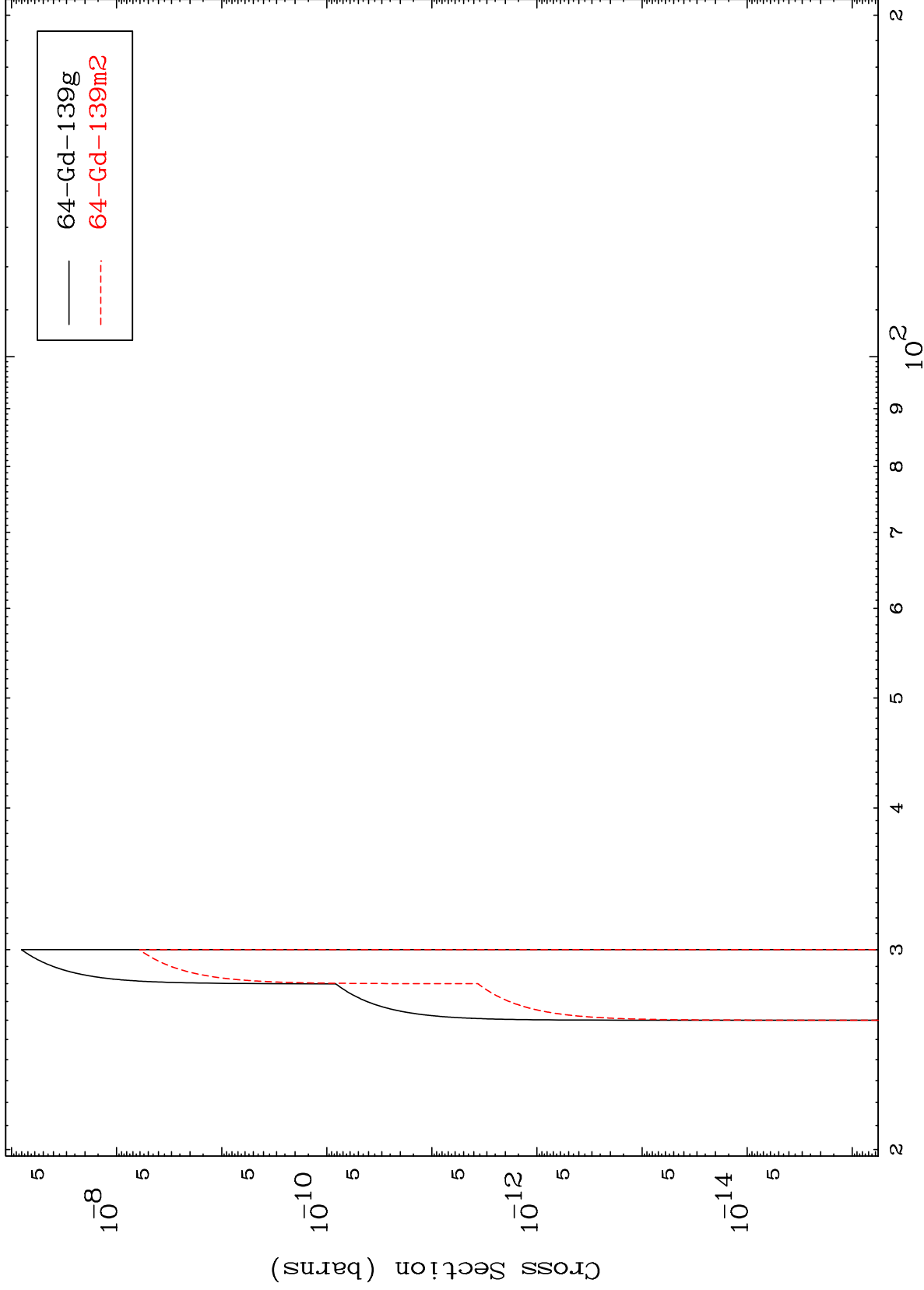
64-Gd-139

MAT 6386

( $\alpha, p$ ) t

64-Gd-139

Radionuclide Production Cross Section



17

Incident Energy (MeV)

64-Gd-139