

Program EVALPLOT  
(Version 2018-1)

by

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(Present Contact Information)

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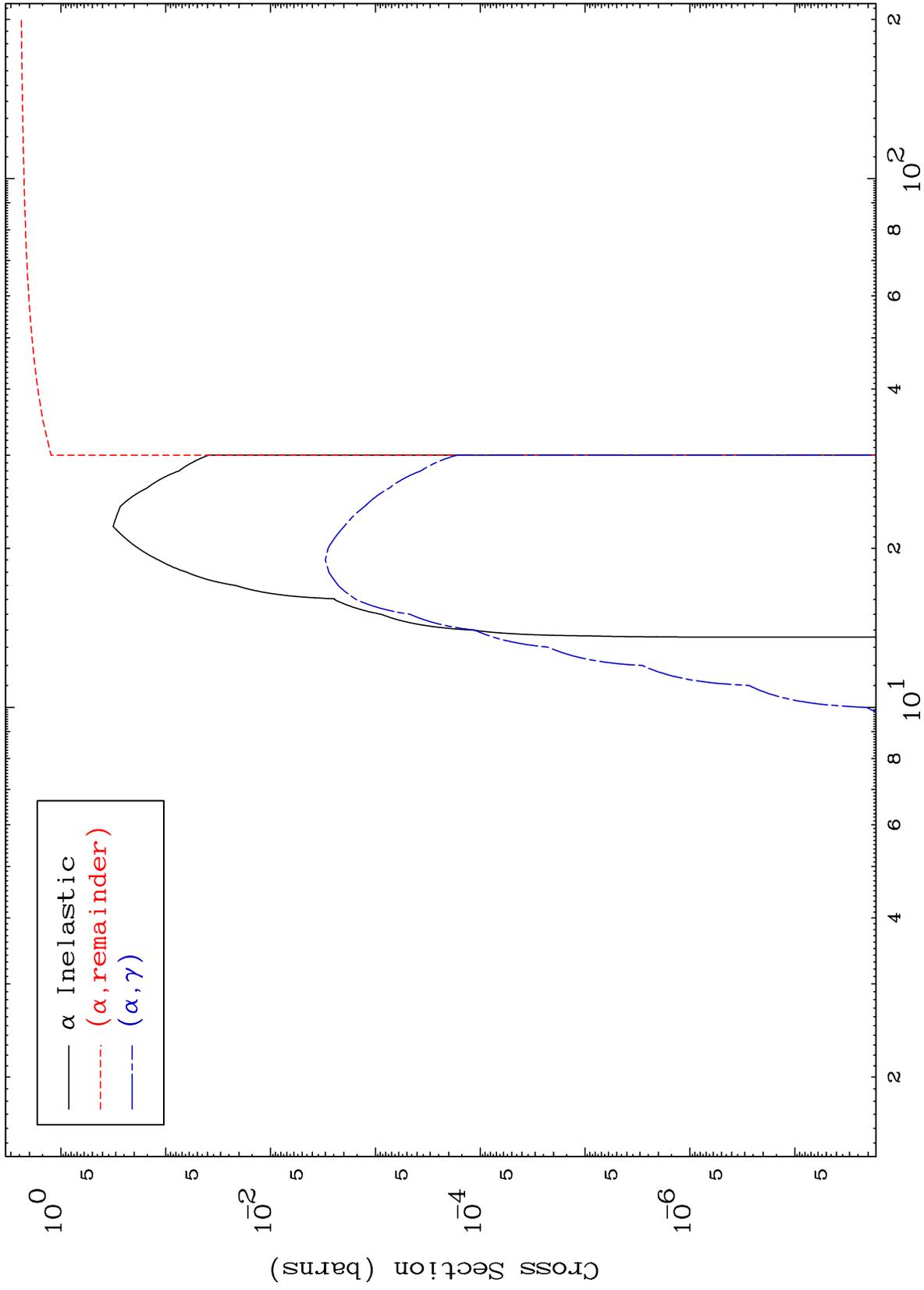
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6401

0 Kelvin  $\alpha$  Major  
Cross Sections

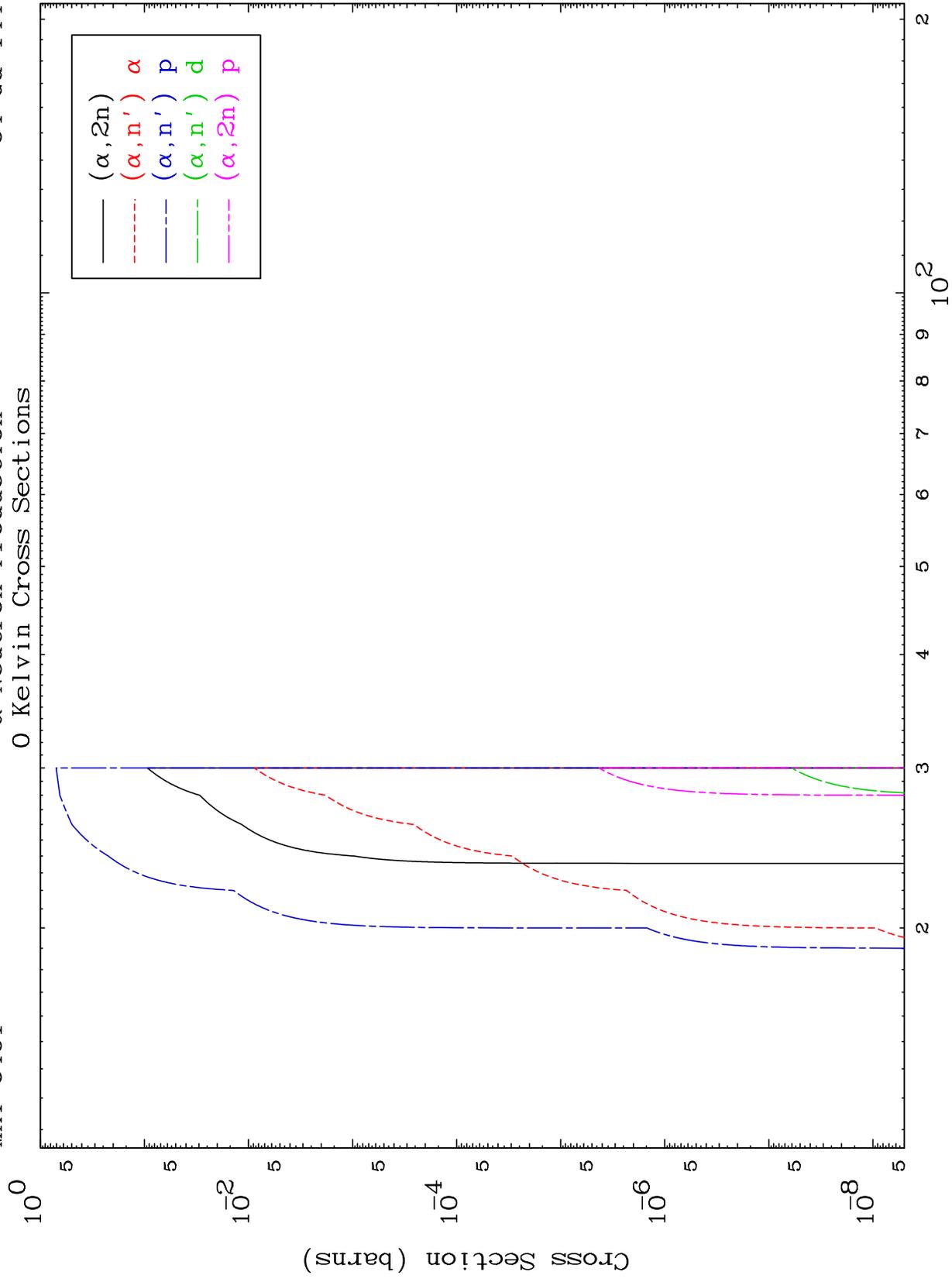
64-Gd-144



MAT 6401

$\alpha$  Neutron Production  
0 Kelvin Cross Sections

64-Gd-144



2

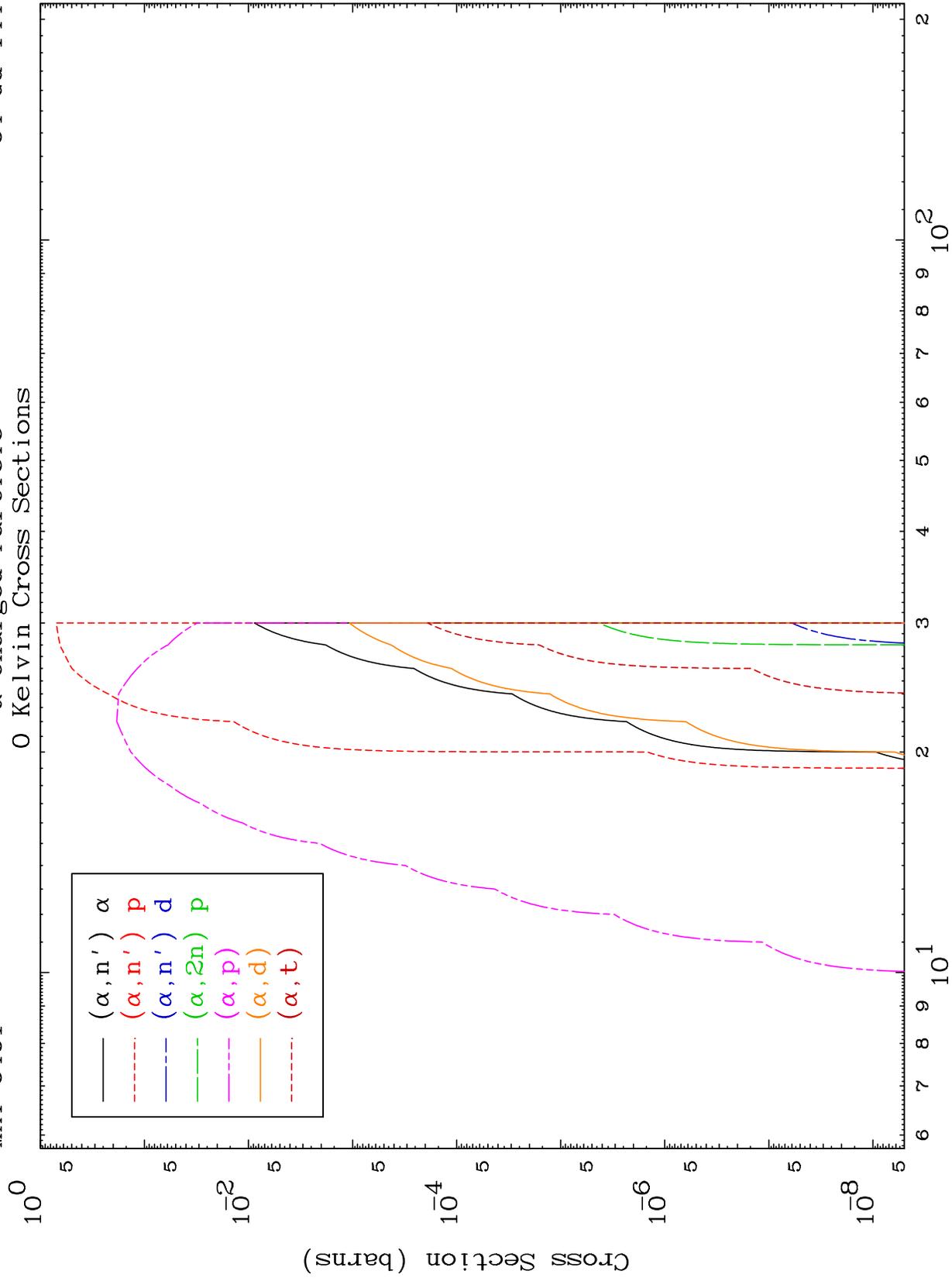
Incident Energy (MeV)

64-Gd-144

MAT 6401

$\alpha$  Charged Particle  
0 Kelvin Cross Sections

64-Gd-144



3

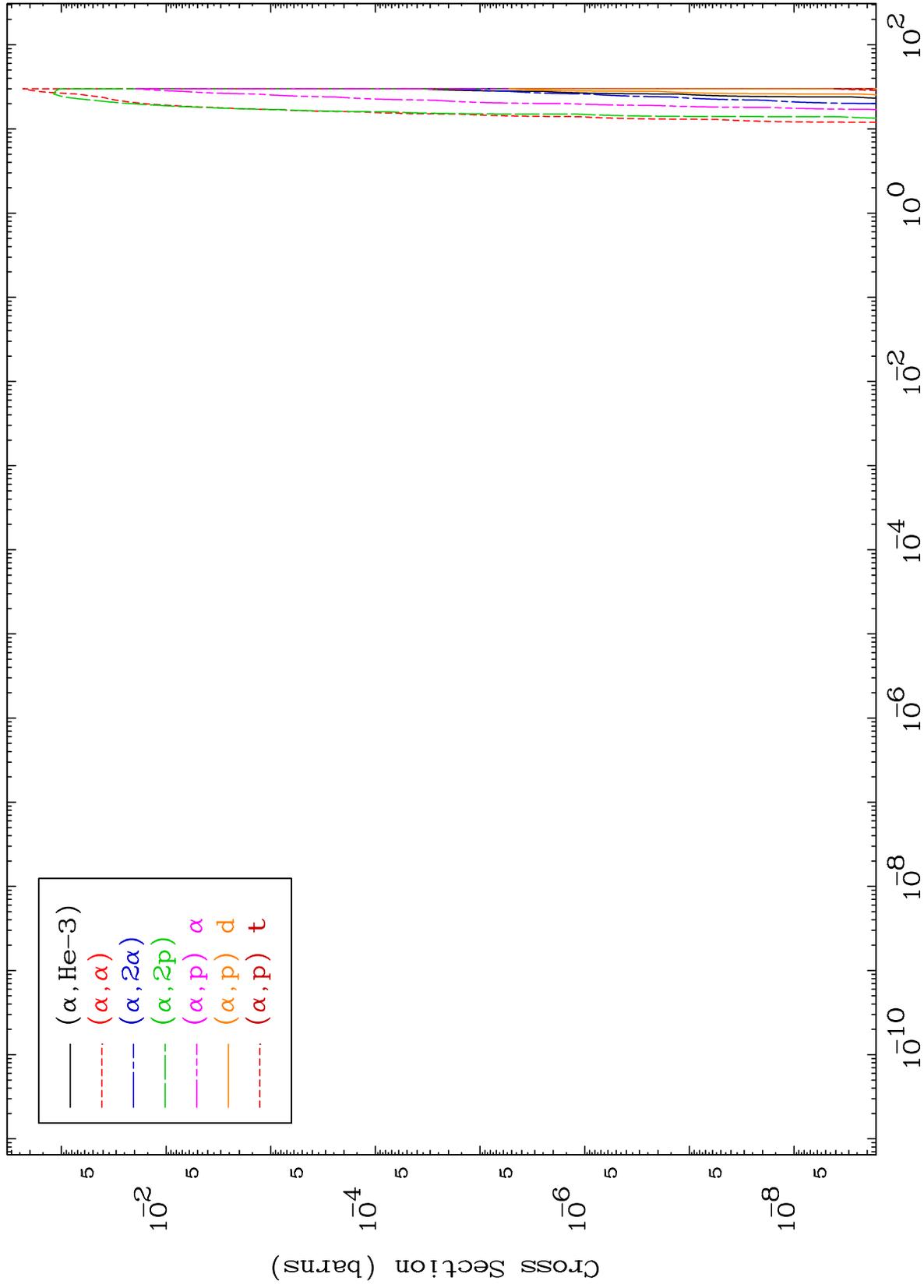
Incident Energy (MeV)

64-Gd-144

MAT 6401

$\alpha$  Charged Particle  
0 Kelvin Cross Sections

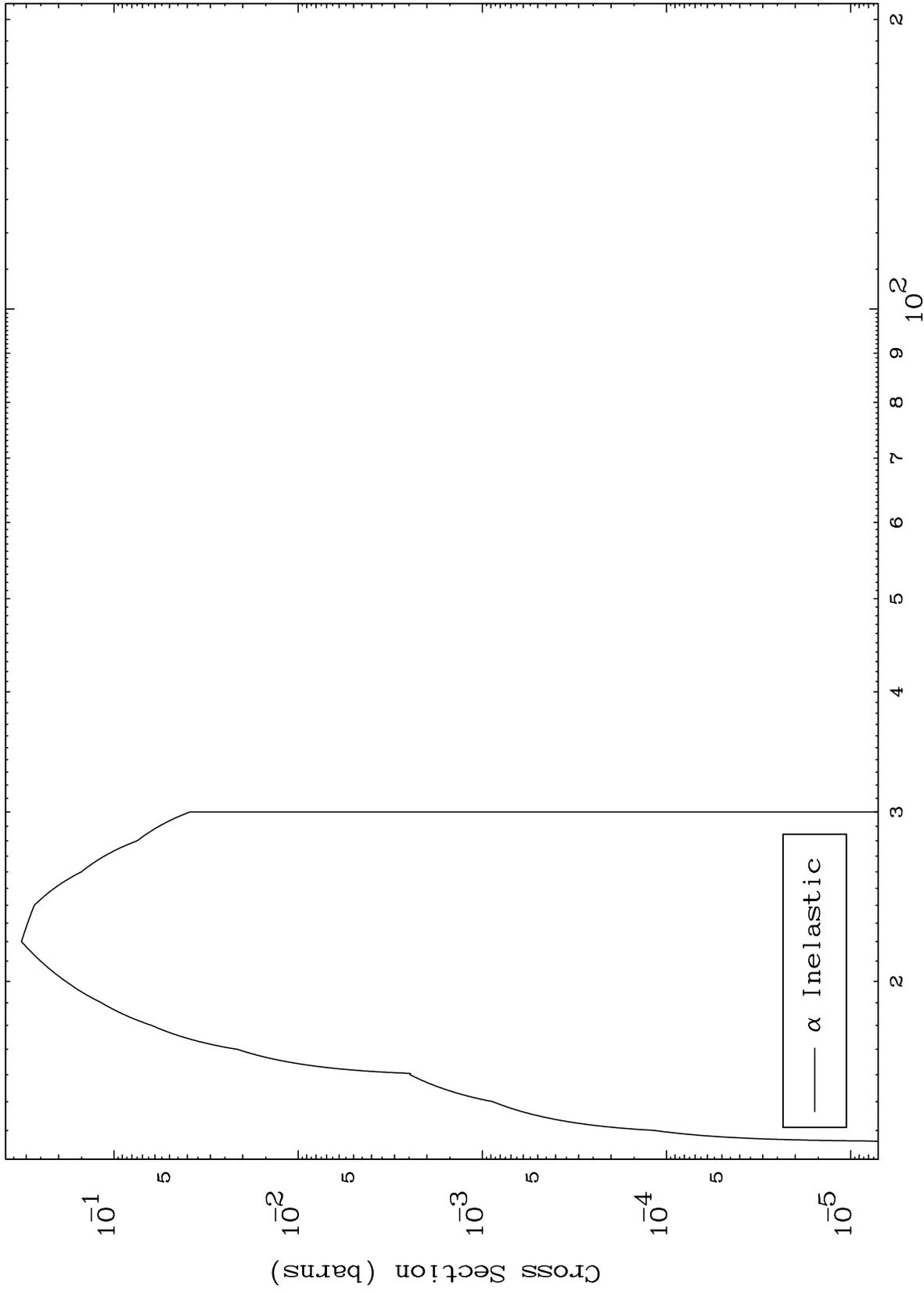
64-Gd-144



MAT 6401

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

64-Gd-144



5

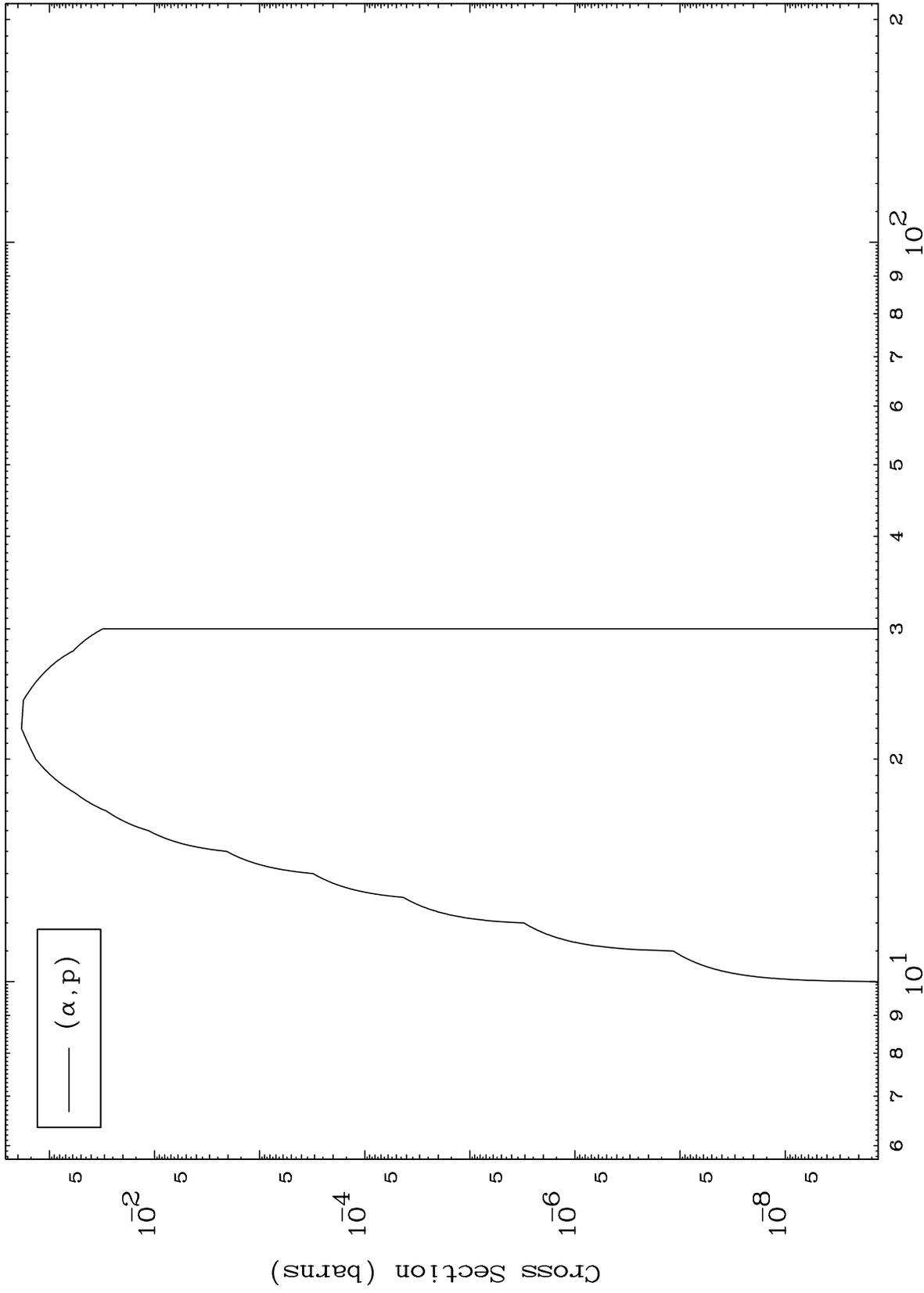
Incident Energy (MeV)

64-Gd-144

MAT 6401

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

64-Gd-144



6

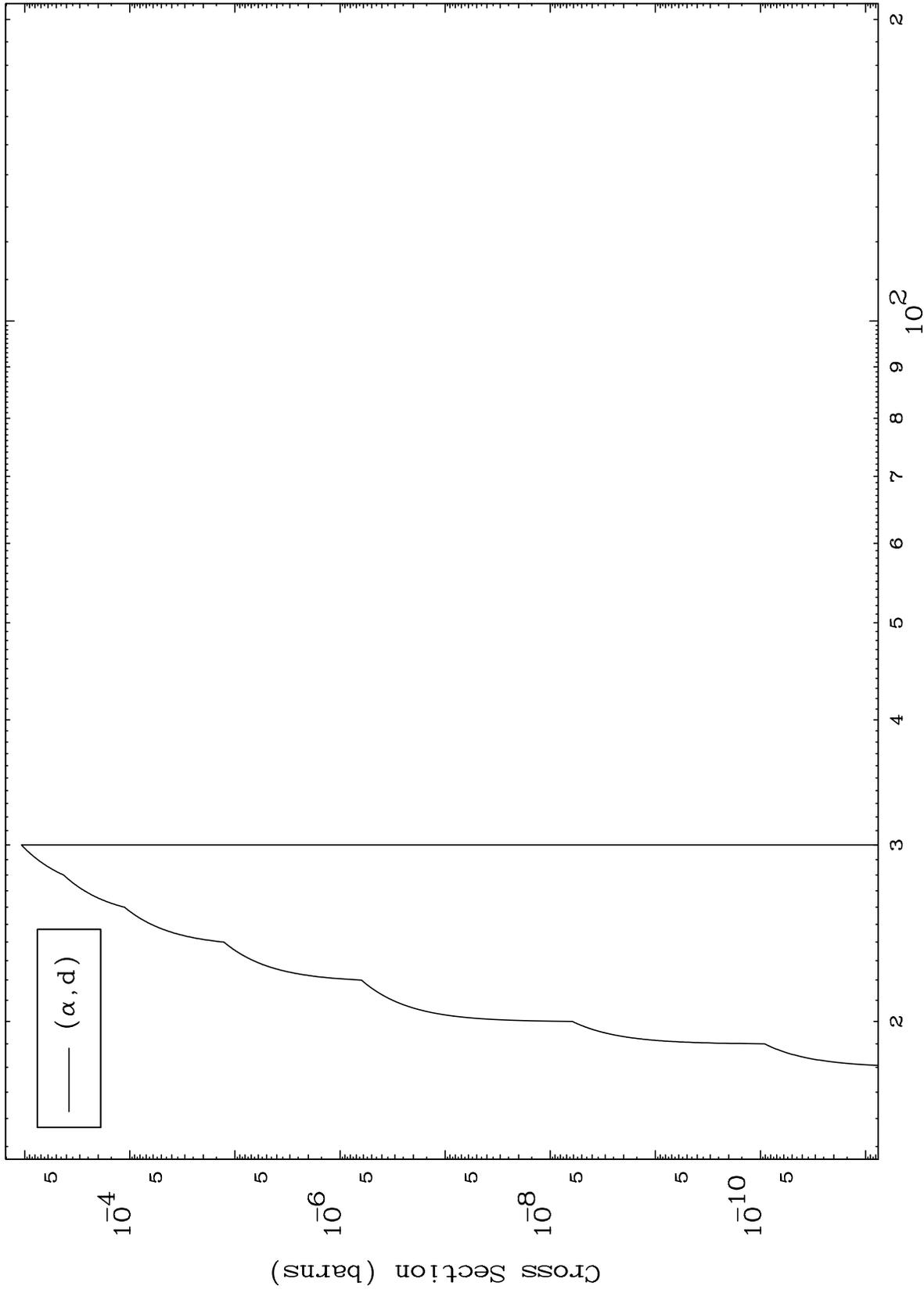
Incident Energy (MeV)

64-Gd-144

MAT 6401

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

64-Gd-144



7

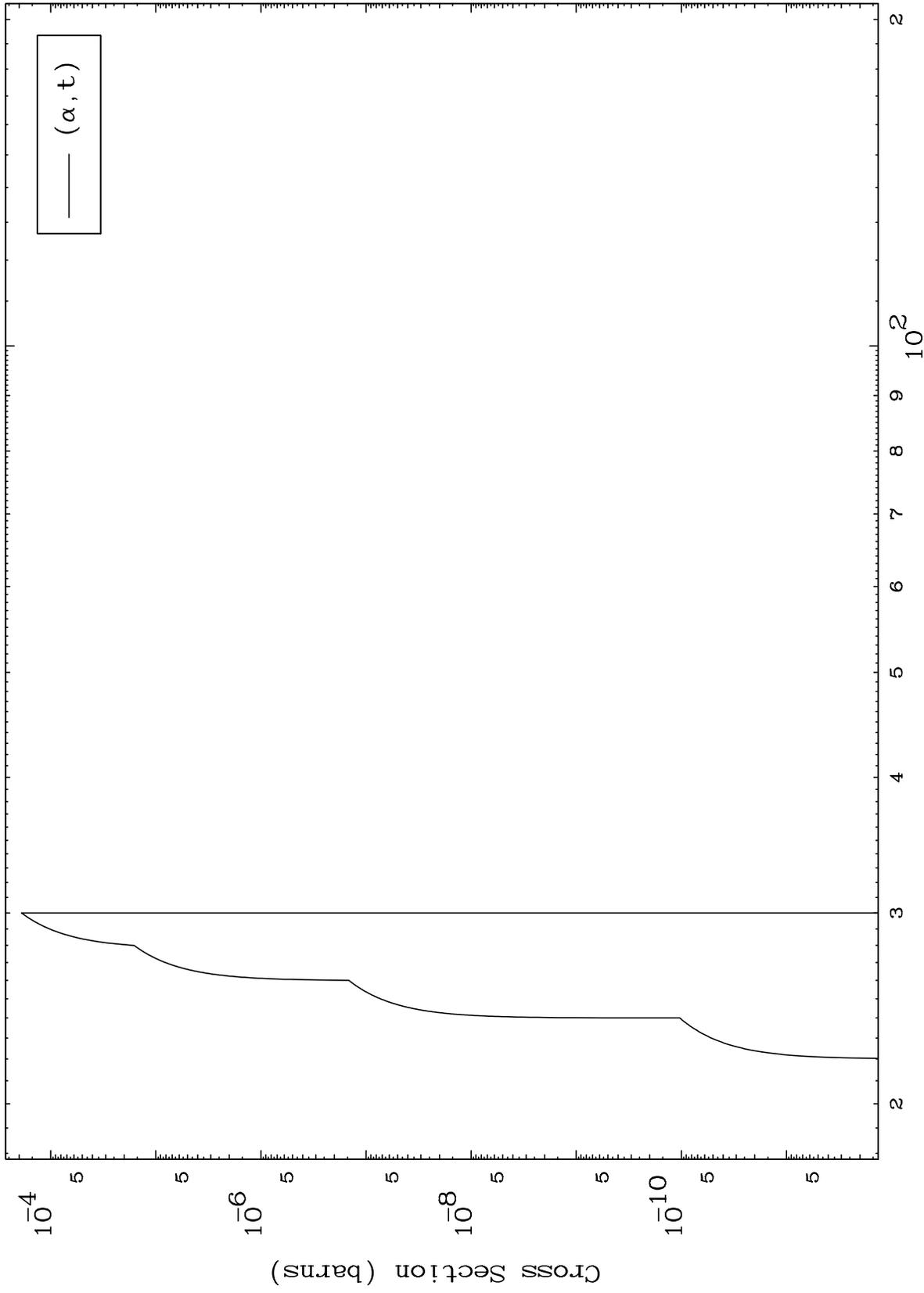
Incident Energy (MeV)

64-Gd-144

MAT 6401

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

64-Gd-144



8

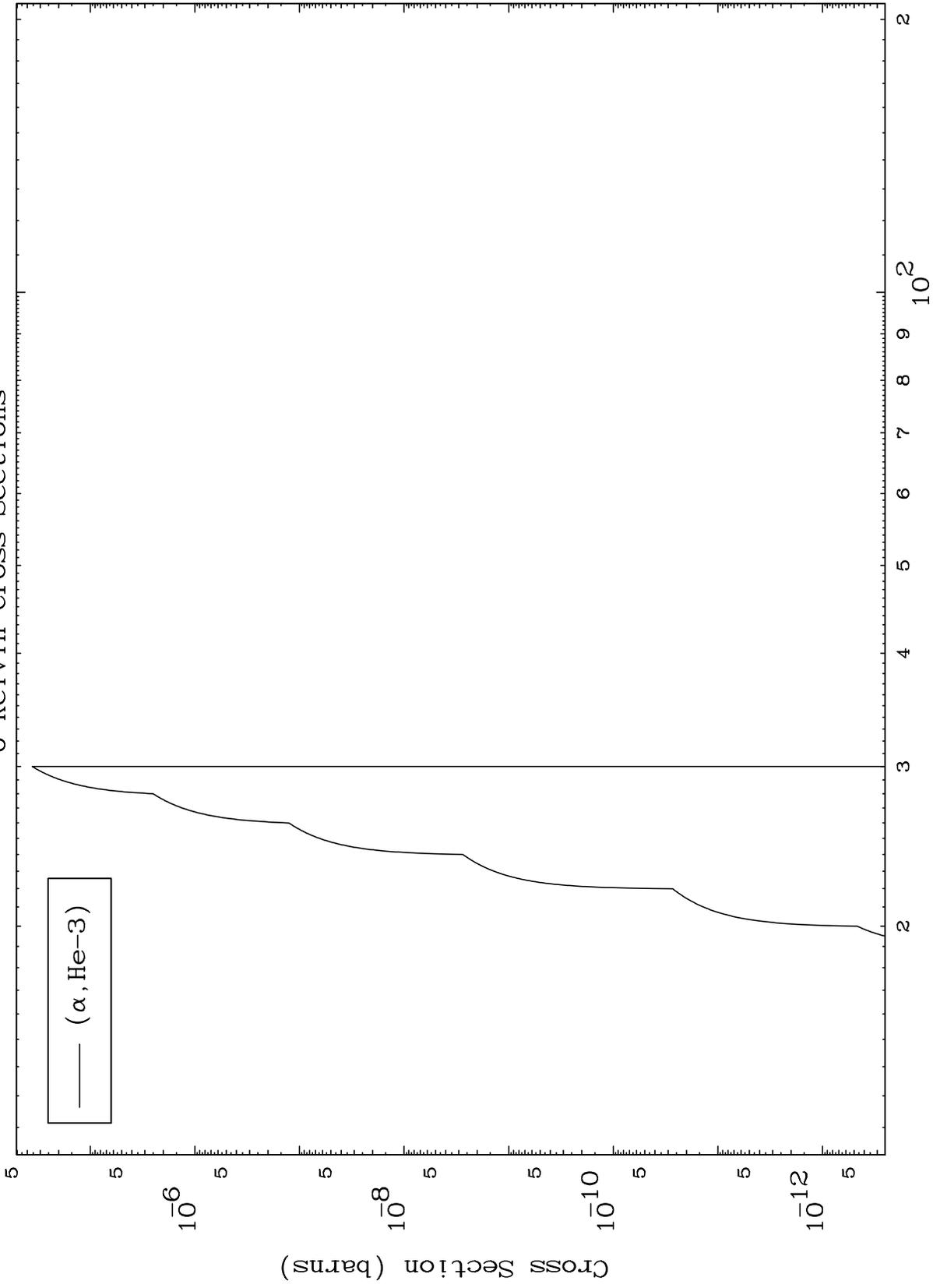
Incident Energy (MeV)

64-Gd-144

MAT 6401

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

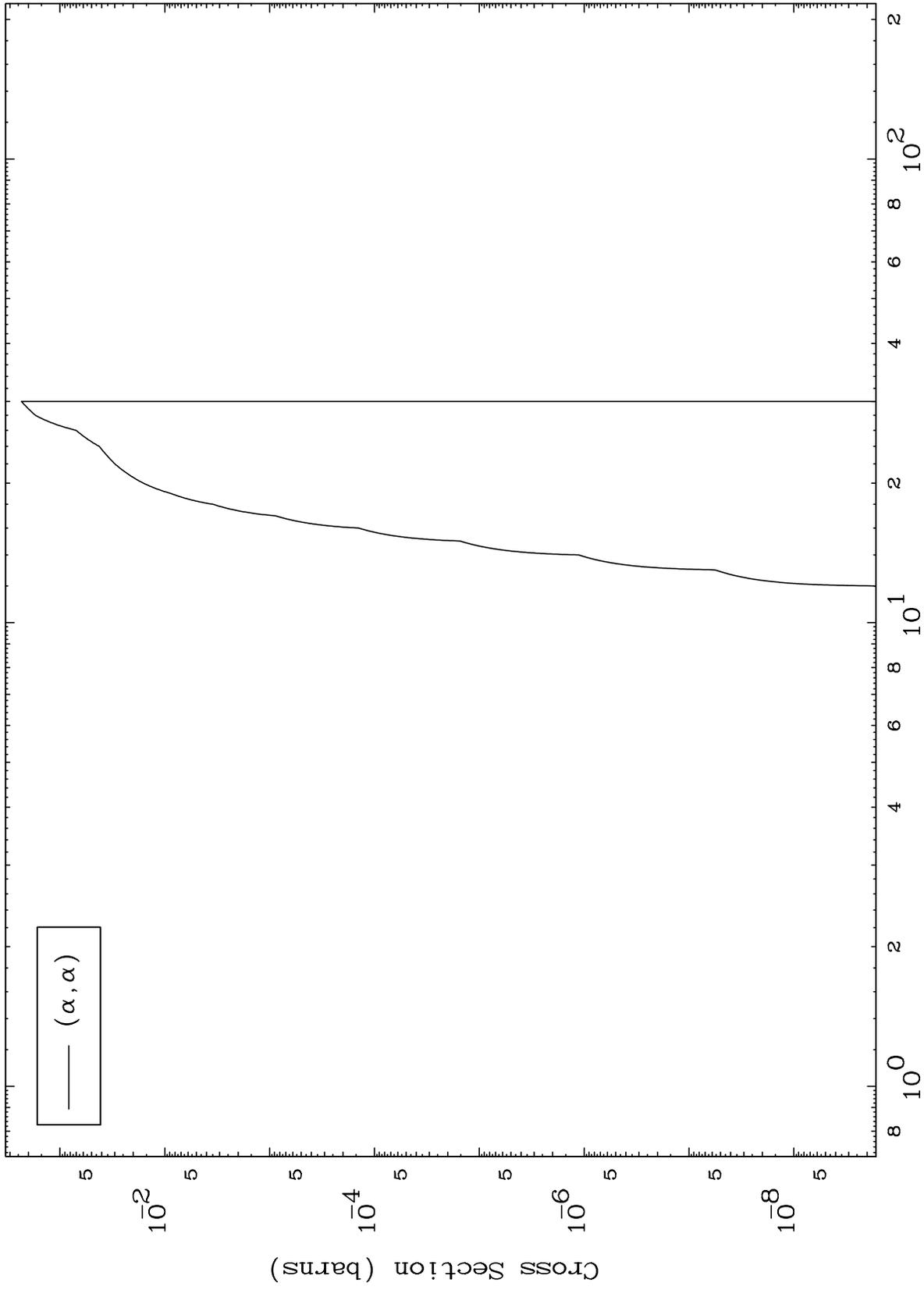
64-Gd-144



MAT 6401

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

64-Gd-144



10

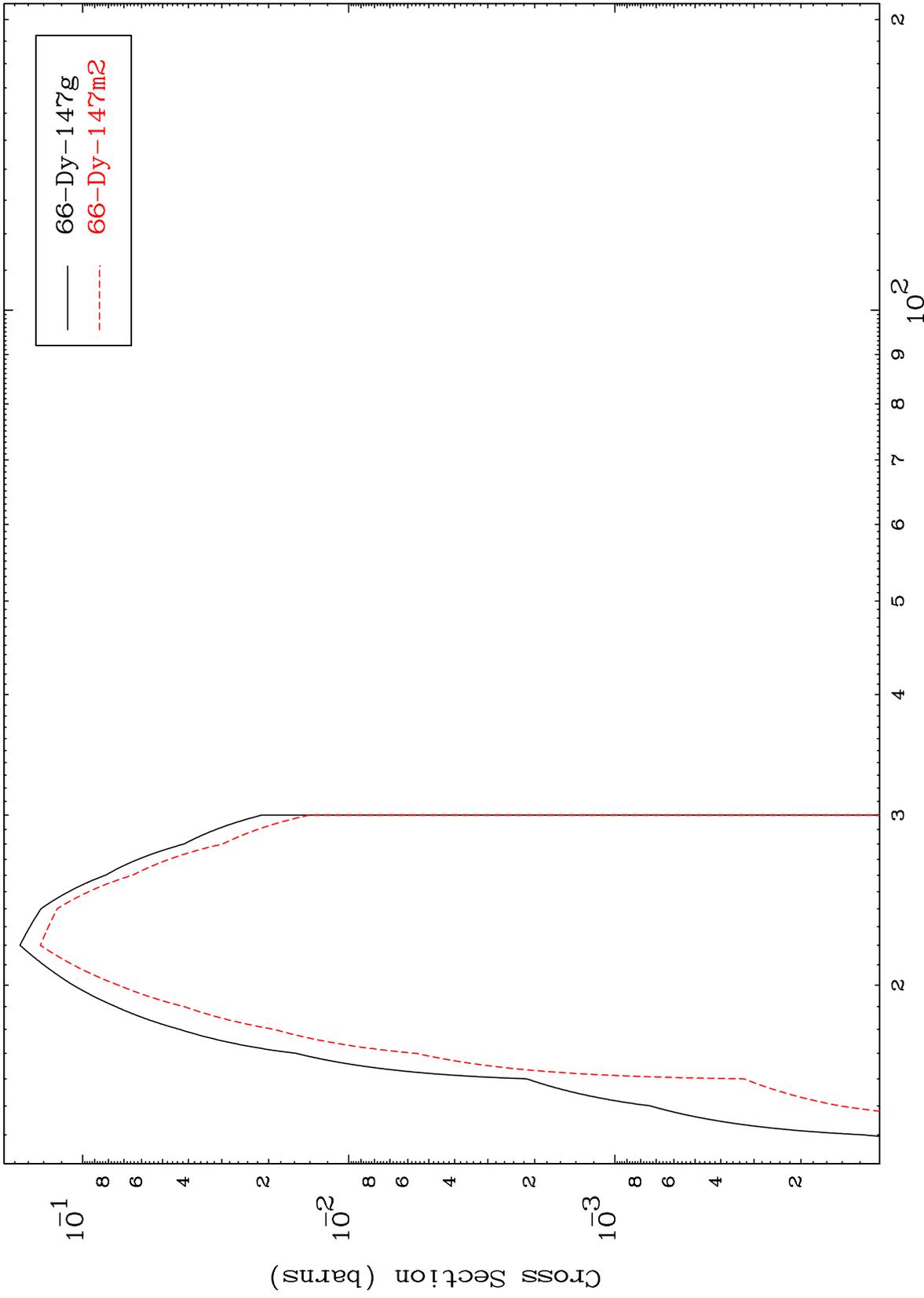
Incident Energy (MeV)

64-Gd-144

MAT 6401

64-Gd-144

$\alpha$  Inelastic  
Radionuclide Production Cross Section



64-Gd-144

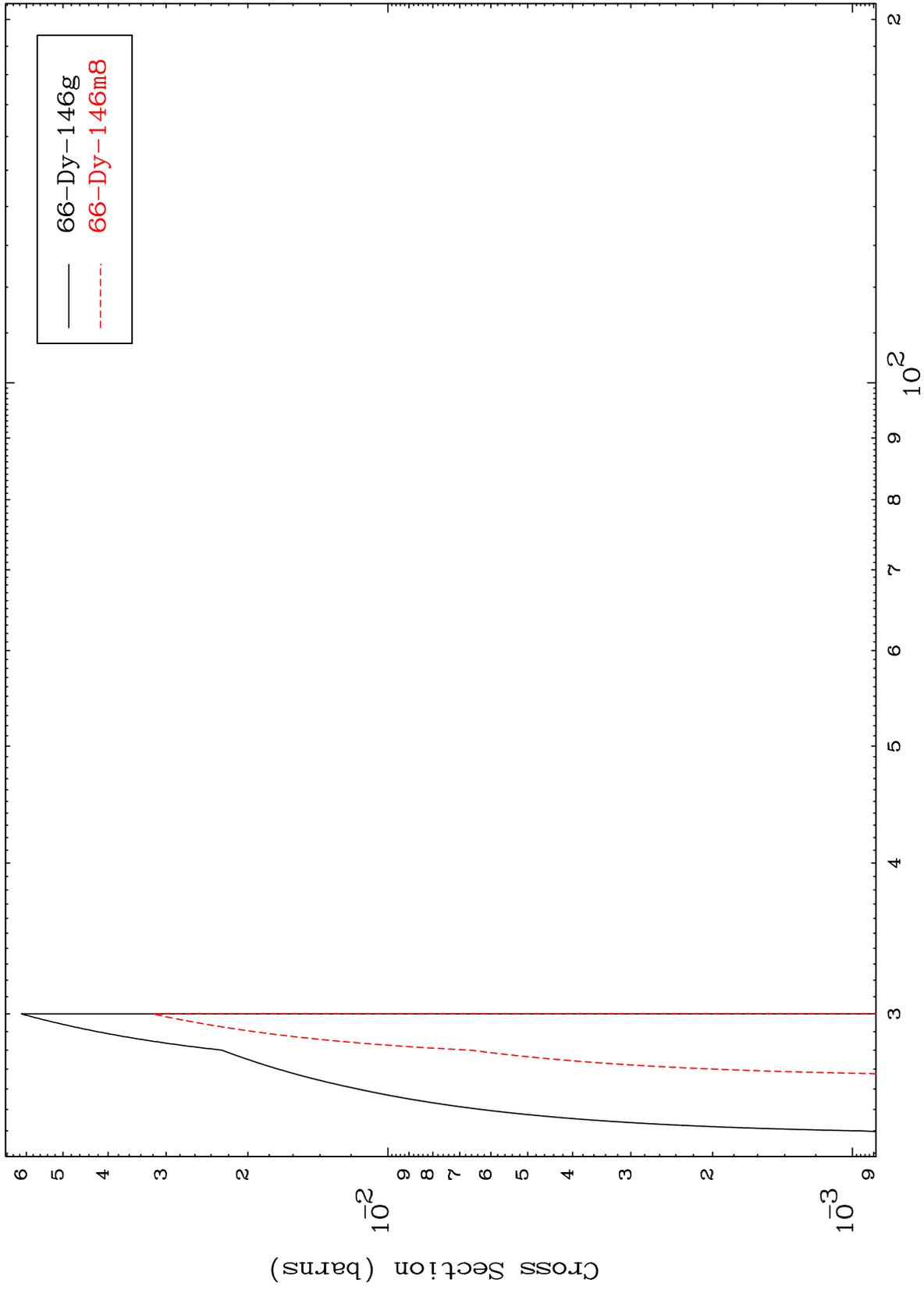
Incident Energy (MeV)

11

MAT 6401

64-Gd-144

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



12

Incident Energy (MeV)

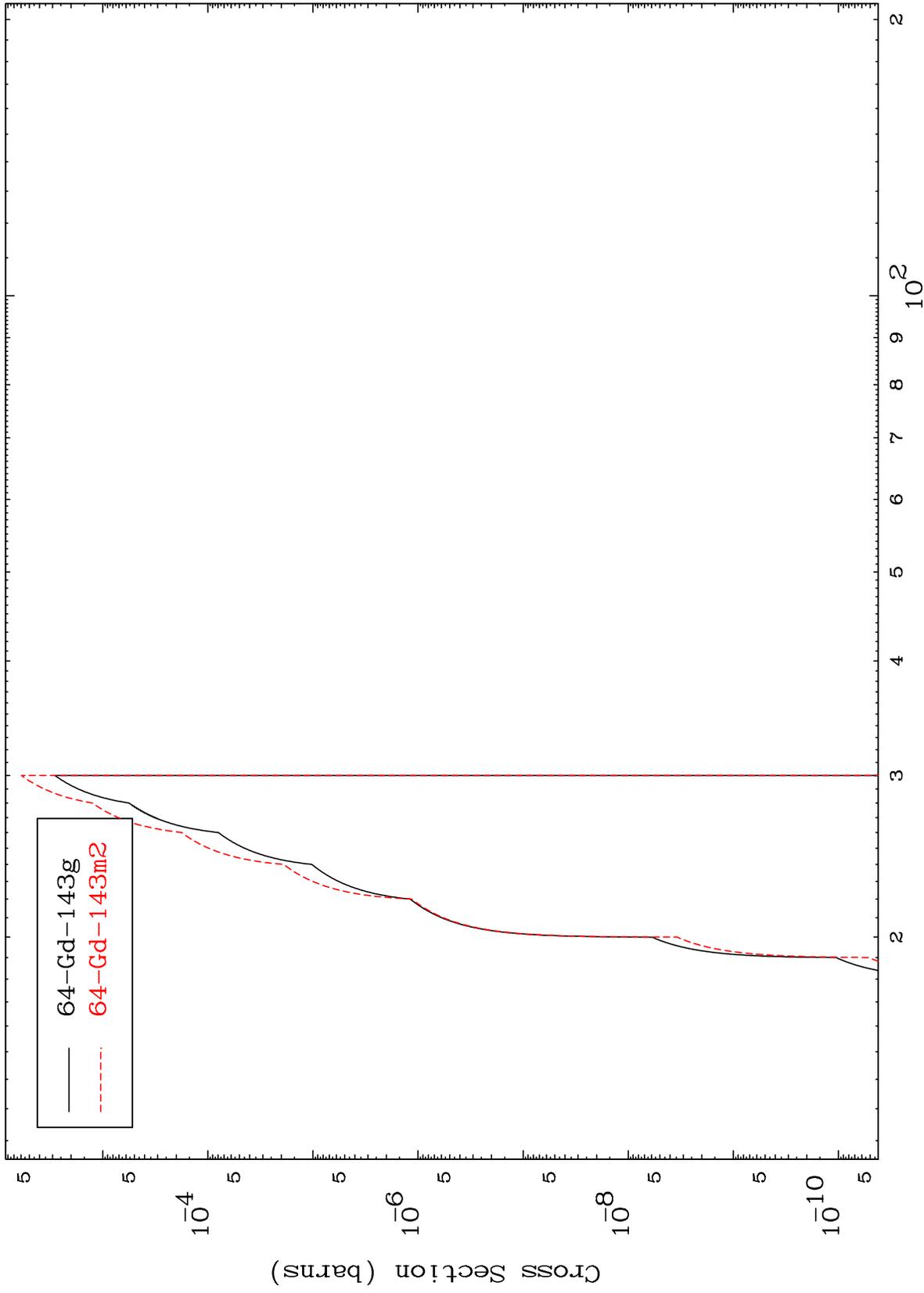
64-Gd-144

MAT 6401

$(\alpha, n')$   $\alpha$

64-Gd-144

Radionuclide Production Cross Section



13

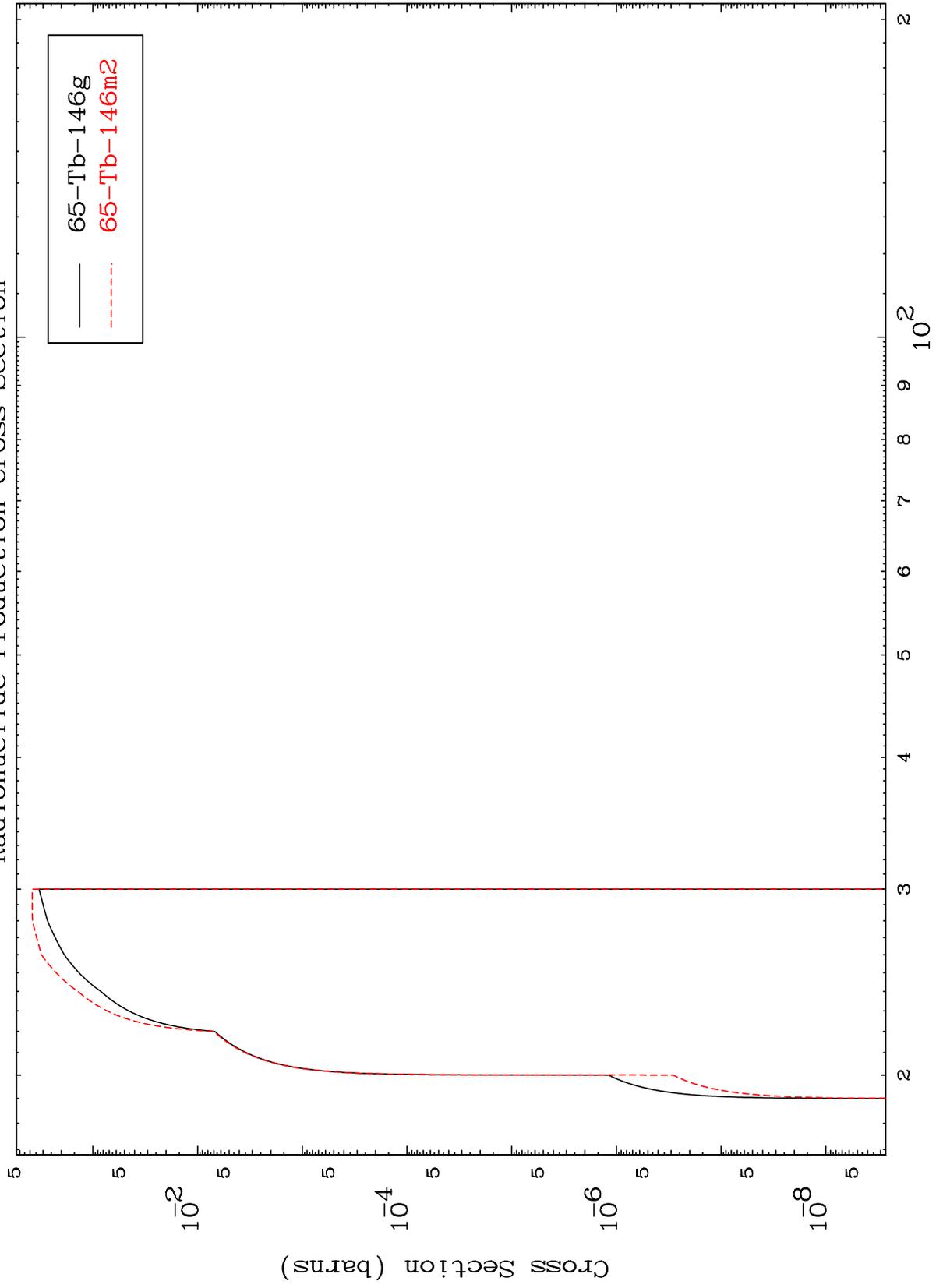
Incident Energy (MeV)

64-Gd-144

MAT 6401

64-Gd-144

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



14

Incident Energy (MeV)

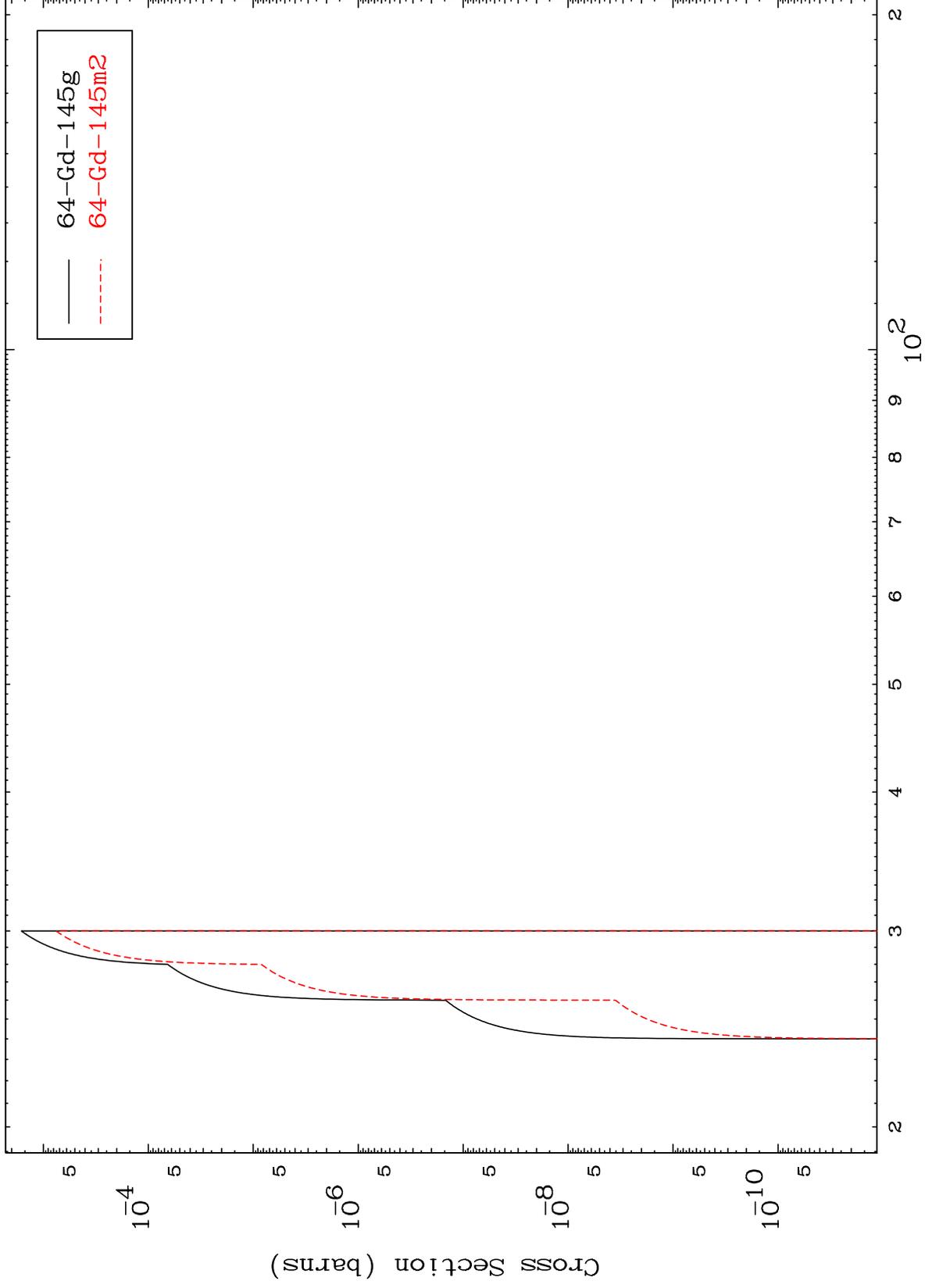
64-Gd-144

MAT 6401

$(\alpha, 2n)$  p

$^{64}\text{Gd}-144$

Radionuclide Production Cross Section



15

Incident Energy (MeV)

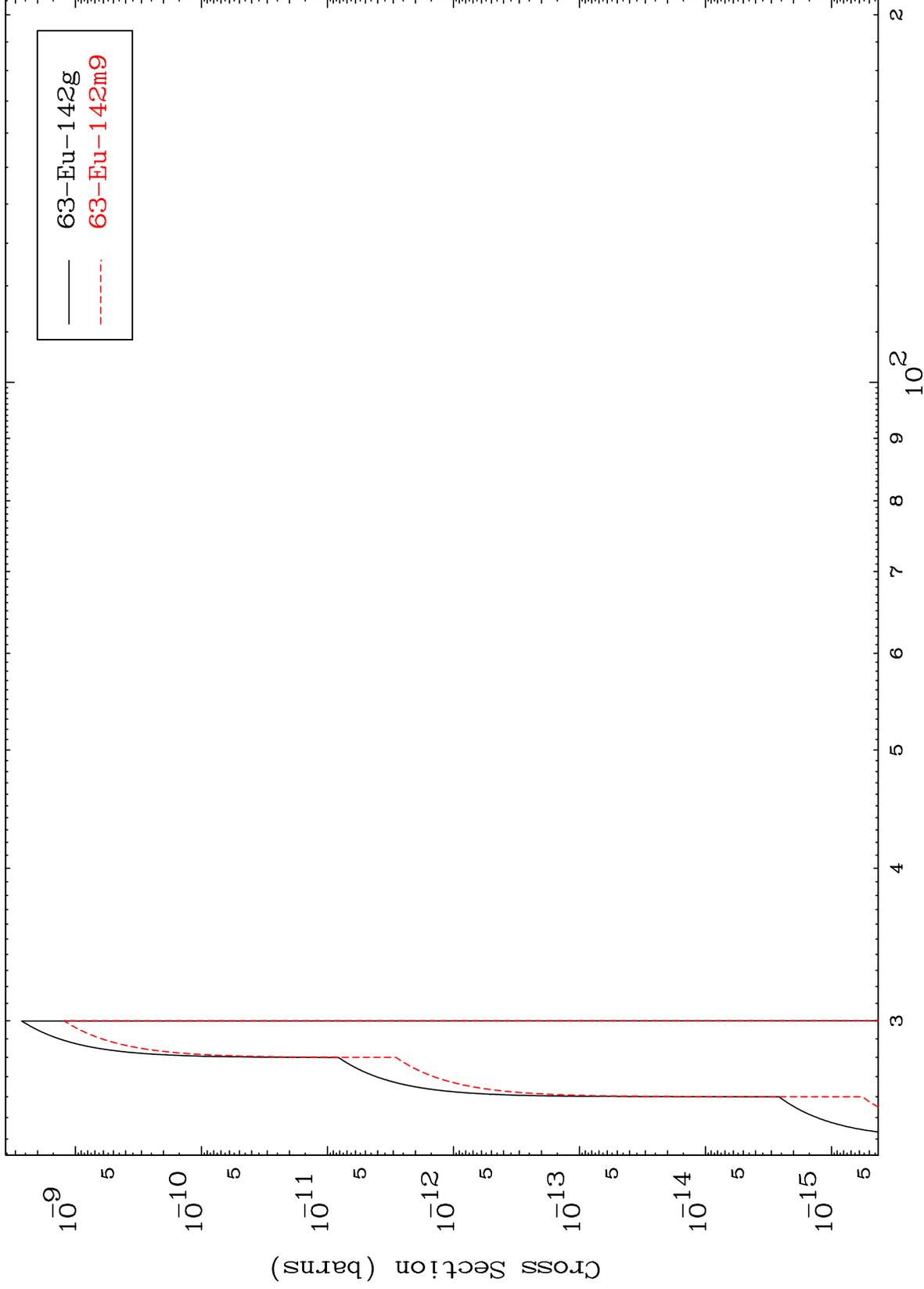
$^{64}\text{Gd}-144$

MAT 6401

$(\alpha, n')$  p  $\alpha$

64-Gd-144

Radionuclide Production Cross Section



16

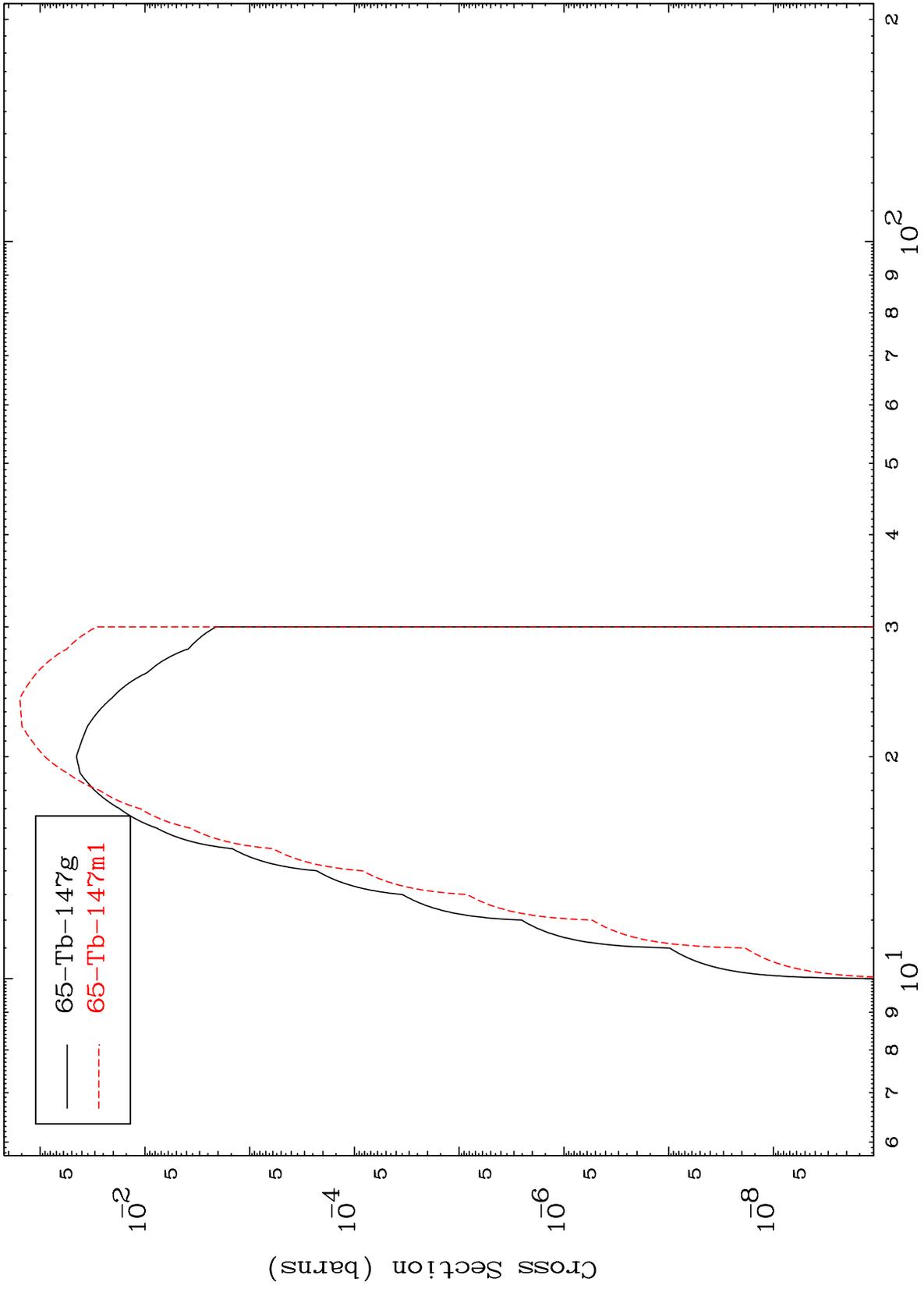
Incident Energy (MeV)

64-Gd-144

MAT 6401

64-Gd-144

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



17

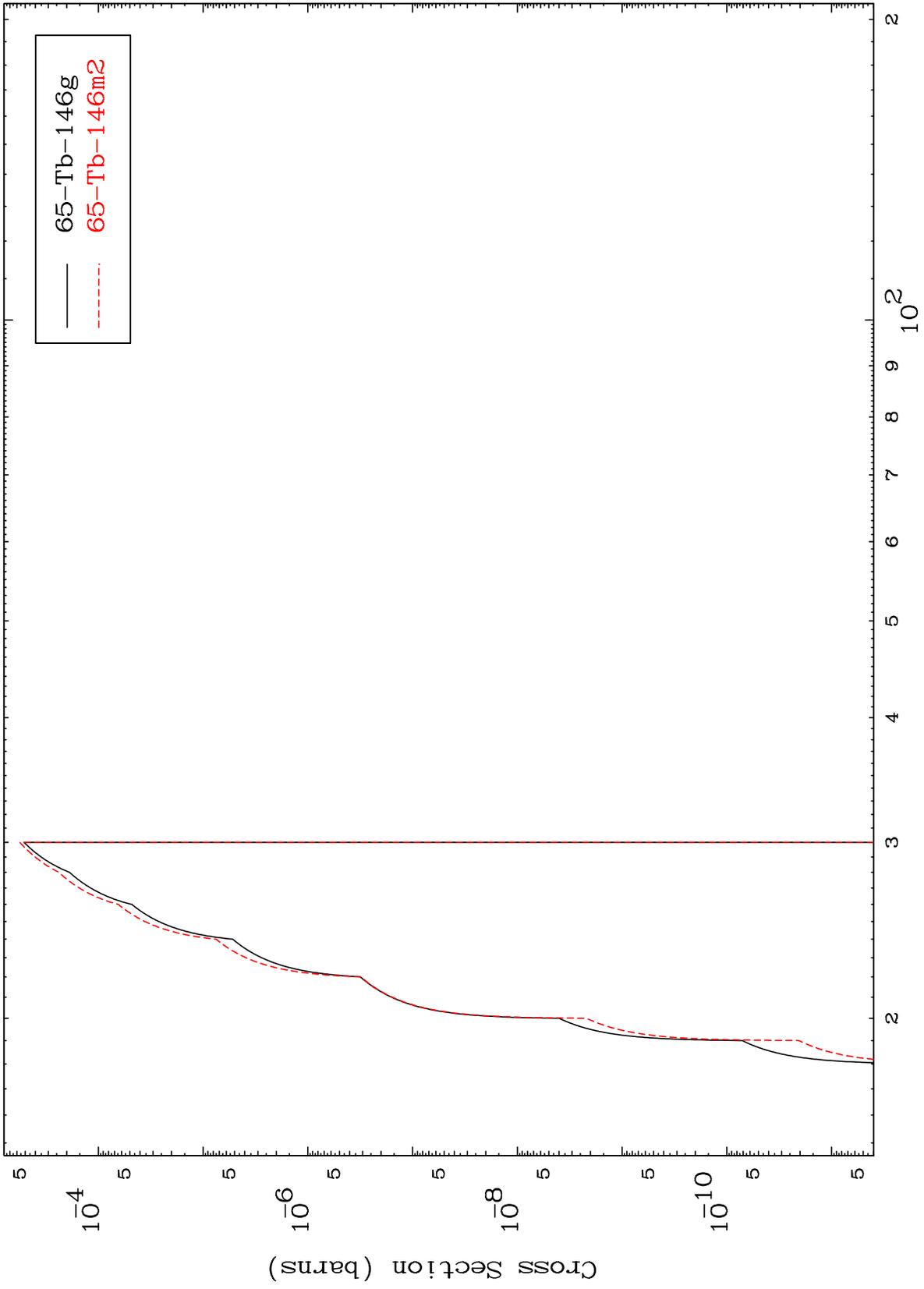
Incident Energy (MeV)

64-Gd-144

MAT 6401

64-Gd-144

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



18

Incident Energy (MeV)

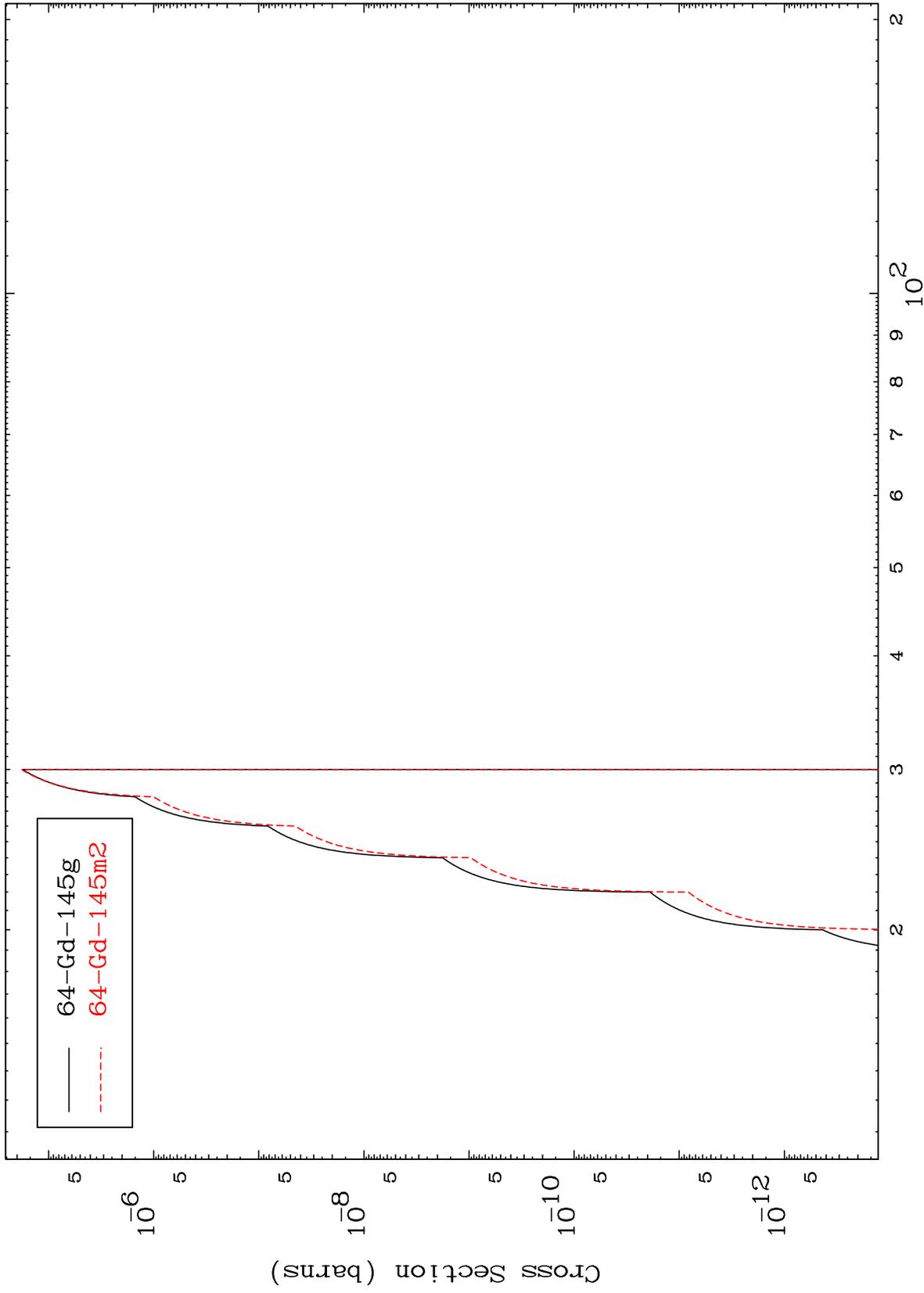
64-Gd-144

MAT 6401

( $\alpha, \text{He-3}$ )

$^{64}\text{Gd-144}$

Radionuclide Production Cross Section



19

Incident Energy (MeV)

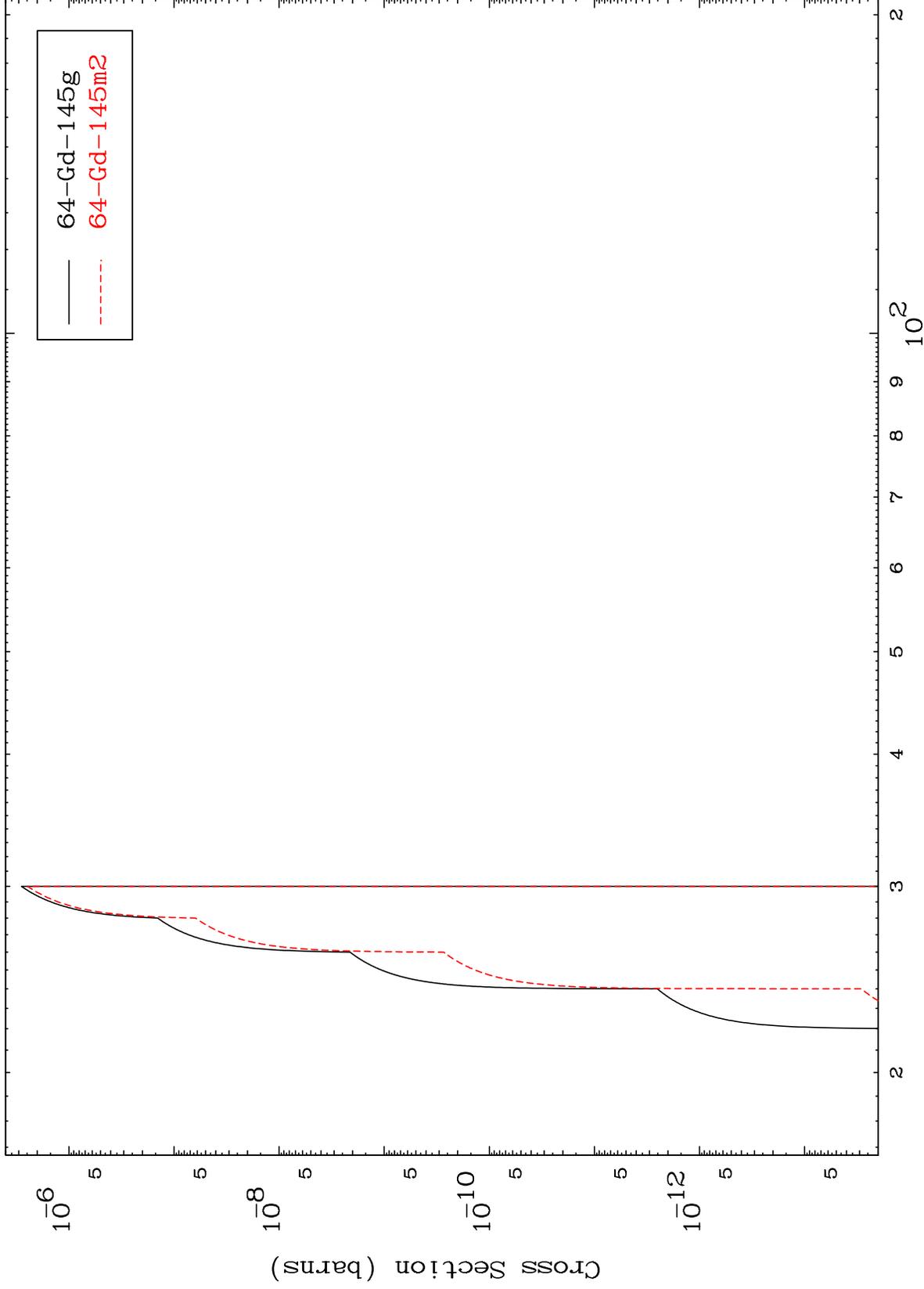
$^{64}\text{Gd-144}$

MAT 6401

( $\alpha, p$ ) d

64-Gd-144

Radionuclide Production Cross Section



20

Incident Energy (MeV)

64-Gd-144