

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

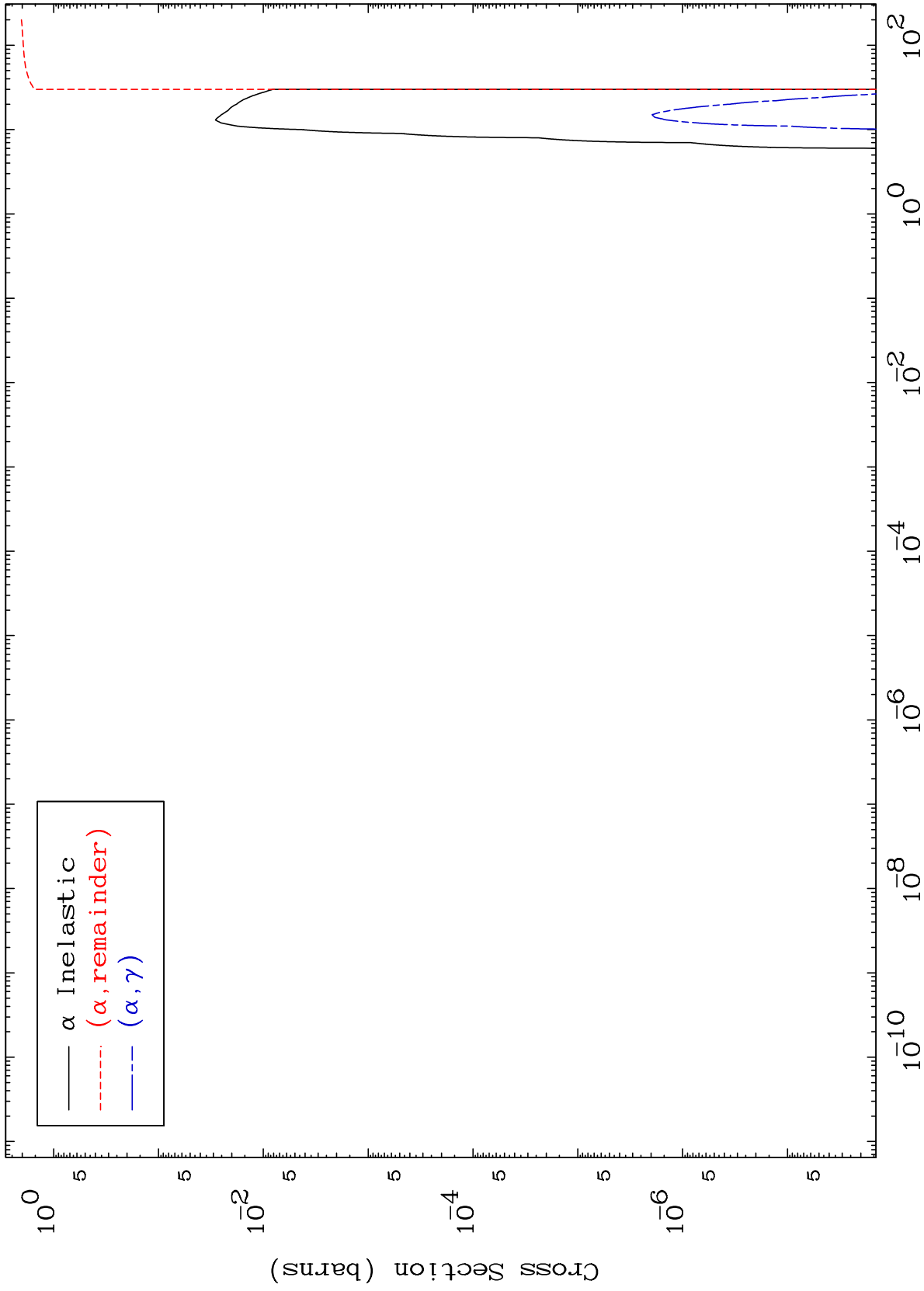
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 4147

0 Kelvin  $\alpha$  Major  
Cross Sections

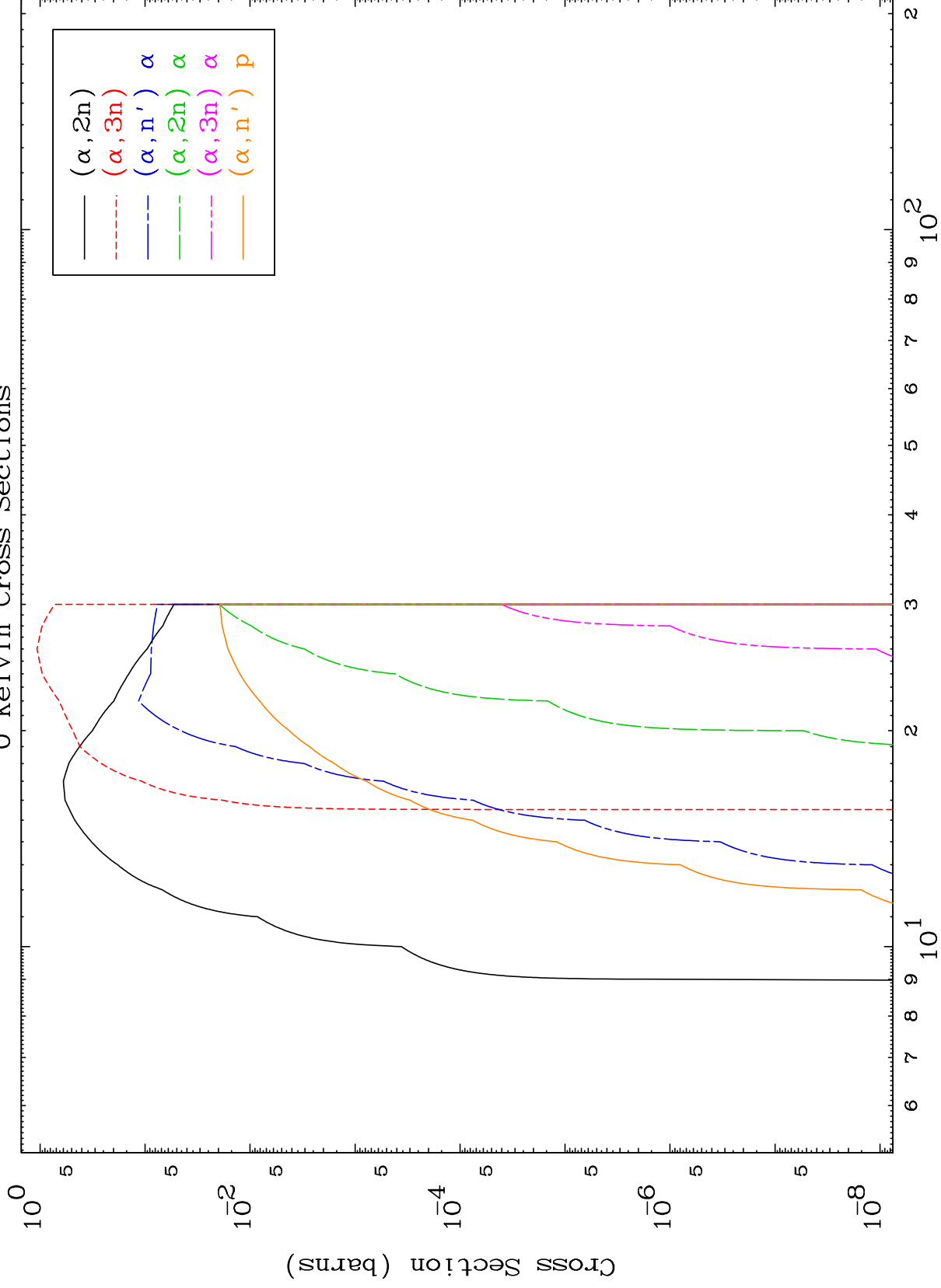
41-Nb-100



MAT 4147

$\alpha$  Neutron Production  
0 Kelvin Cross Sections

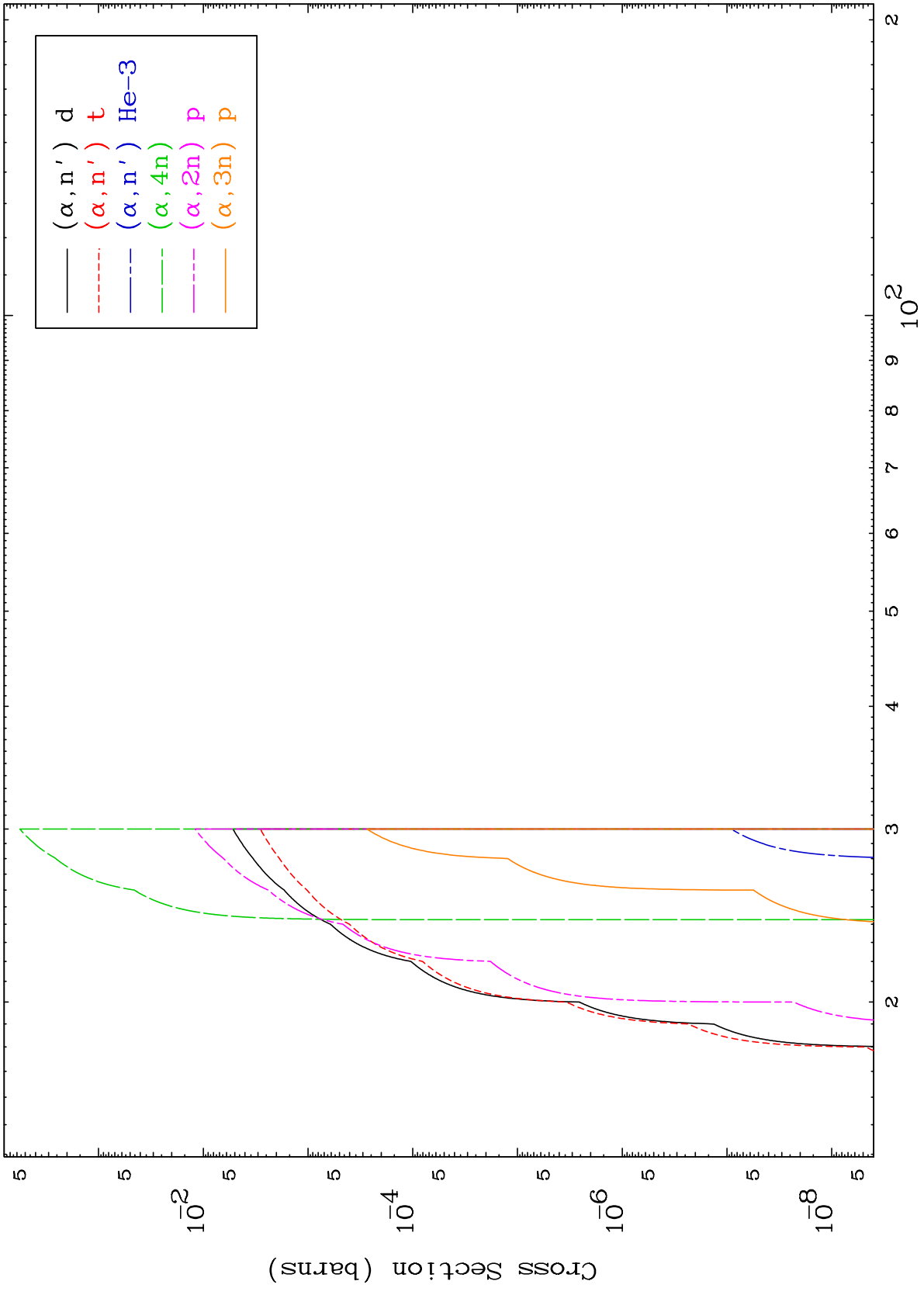
41-Nb-100



2

Incident Energy (MeV)

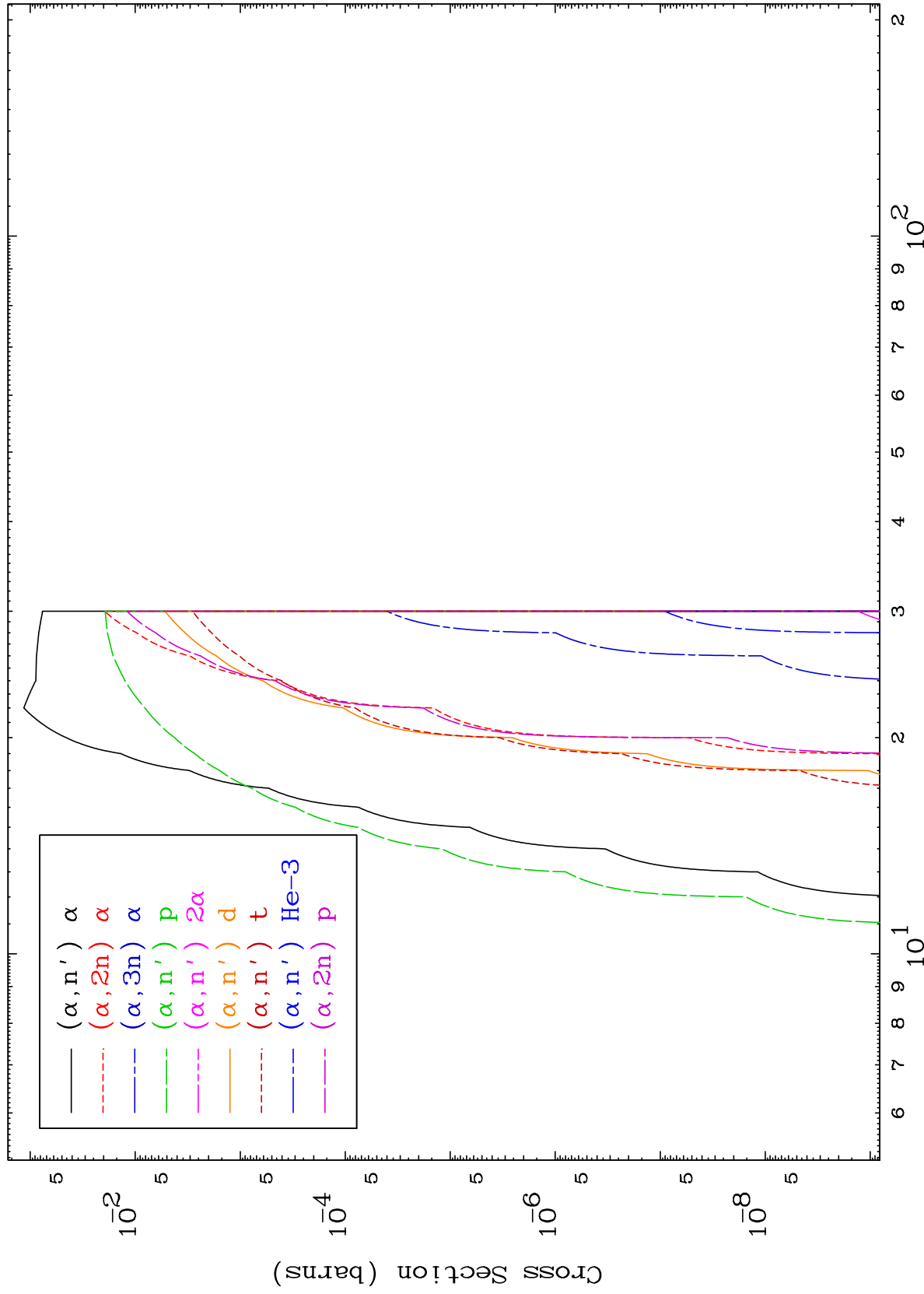
41-Nb-100

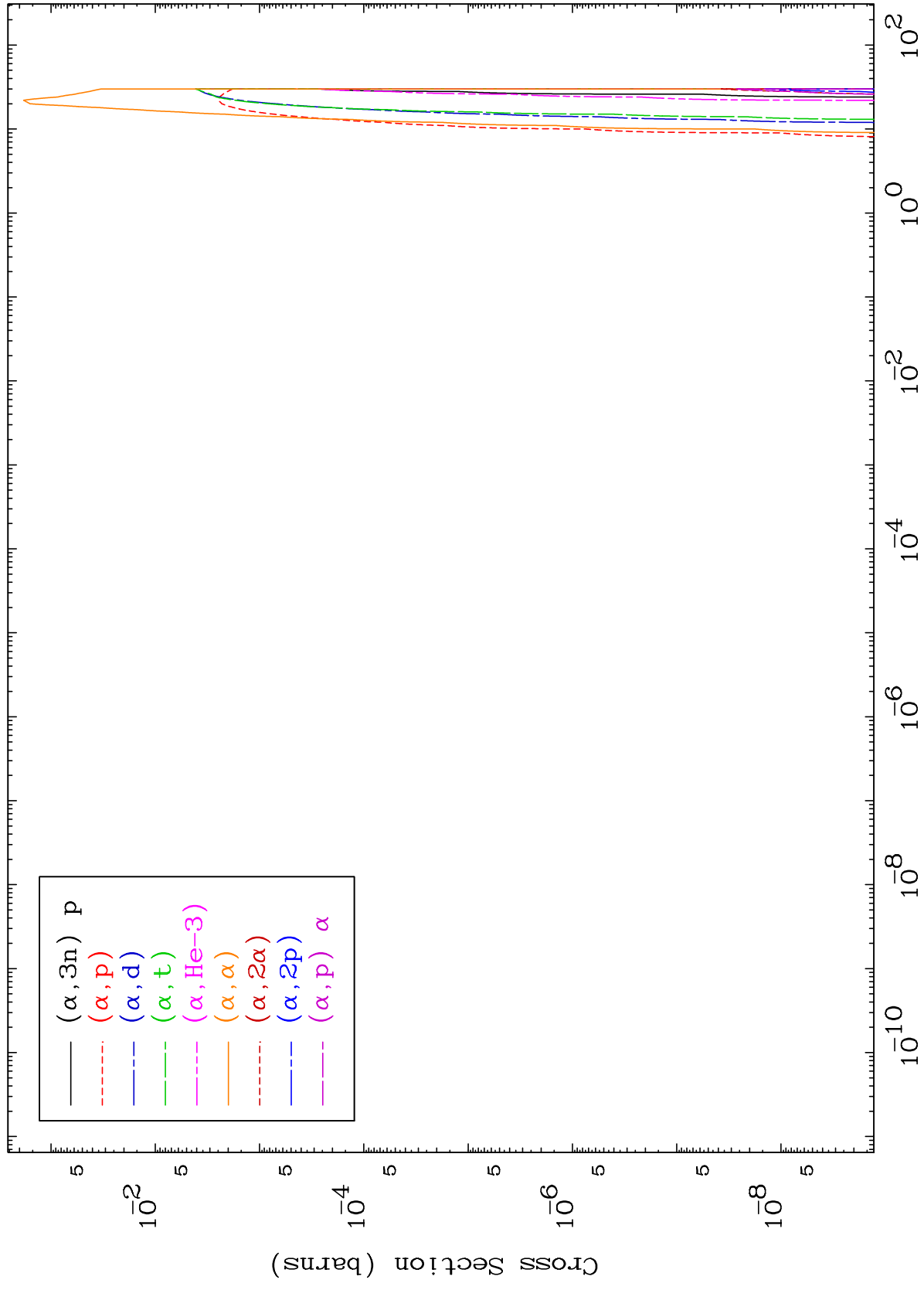


MAT 4147

$\alpha$  Charged Particle  
0 Kelvin Cross Sections

41-Nb-100

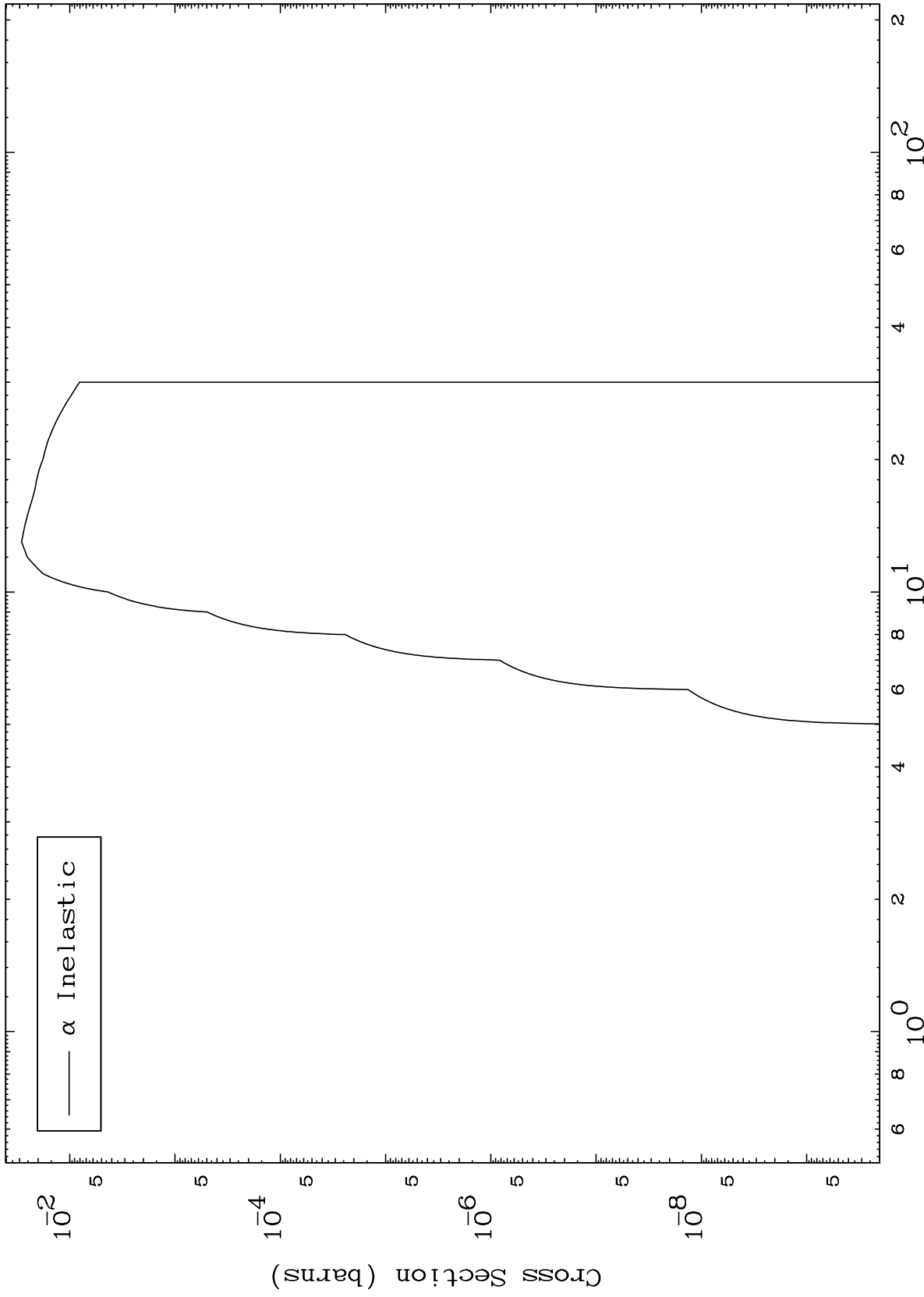




MAT 4147

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

41-Nb-100



6

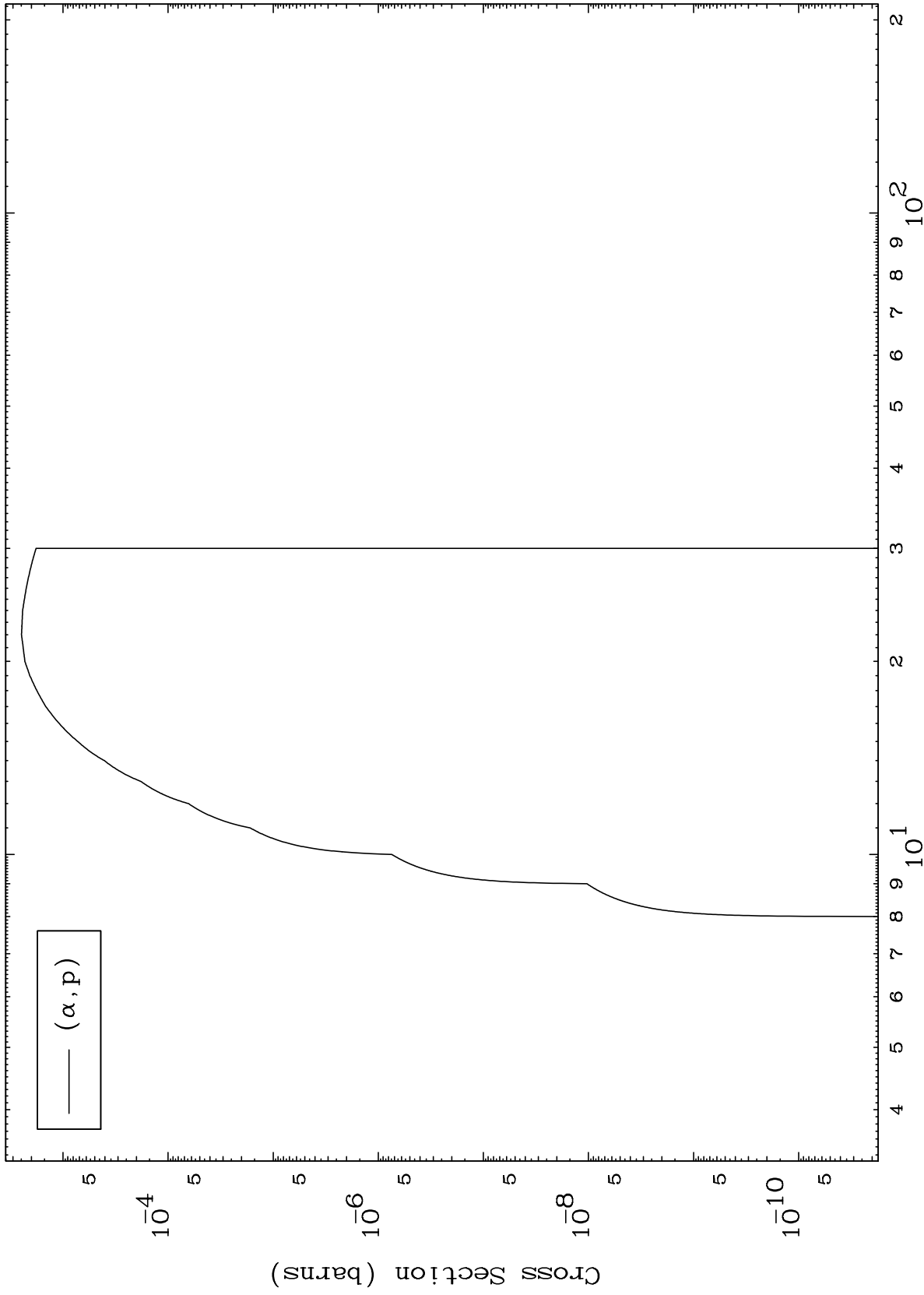
Incident Energy (MeV)

41-Nb-100

MAT 4147

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

41-Nb-100

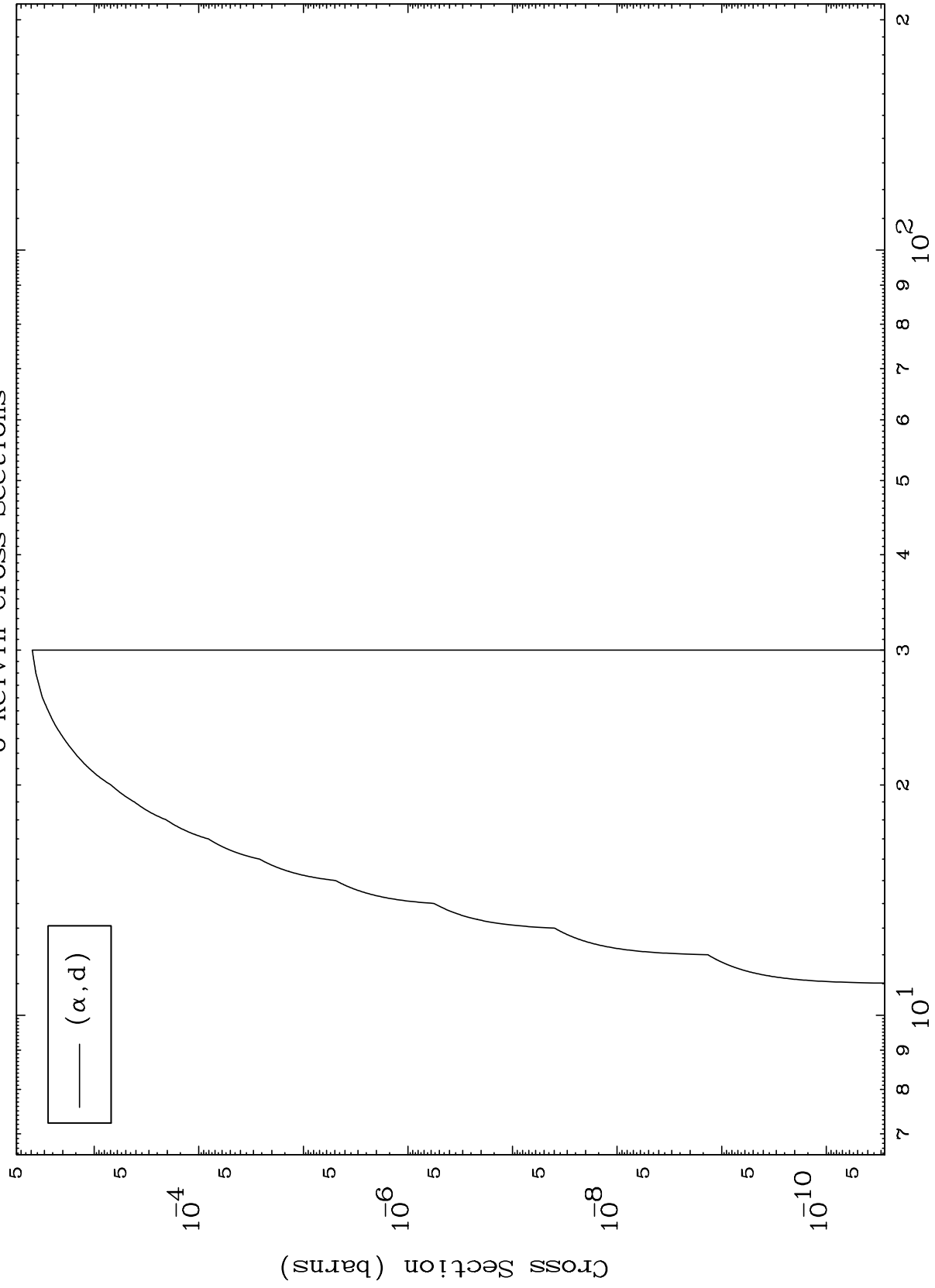




MAT 4147

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

41-Nb-100



8

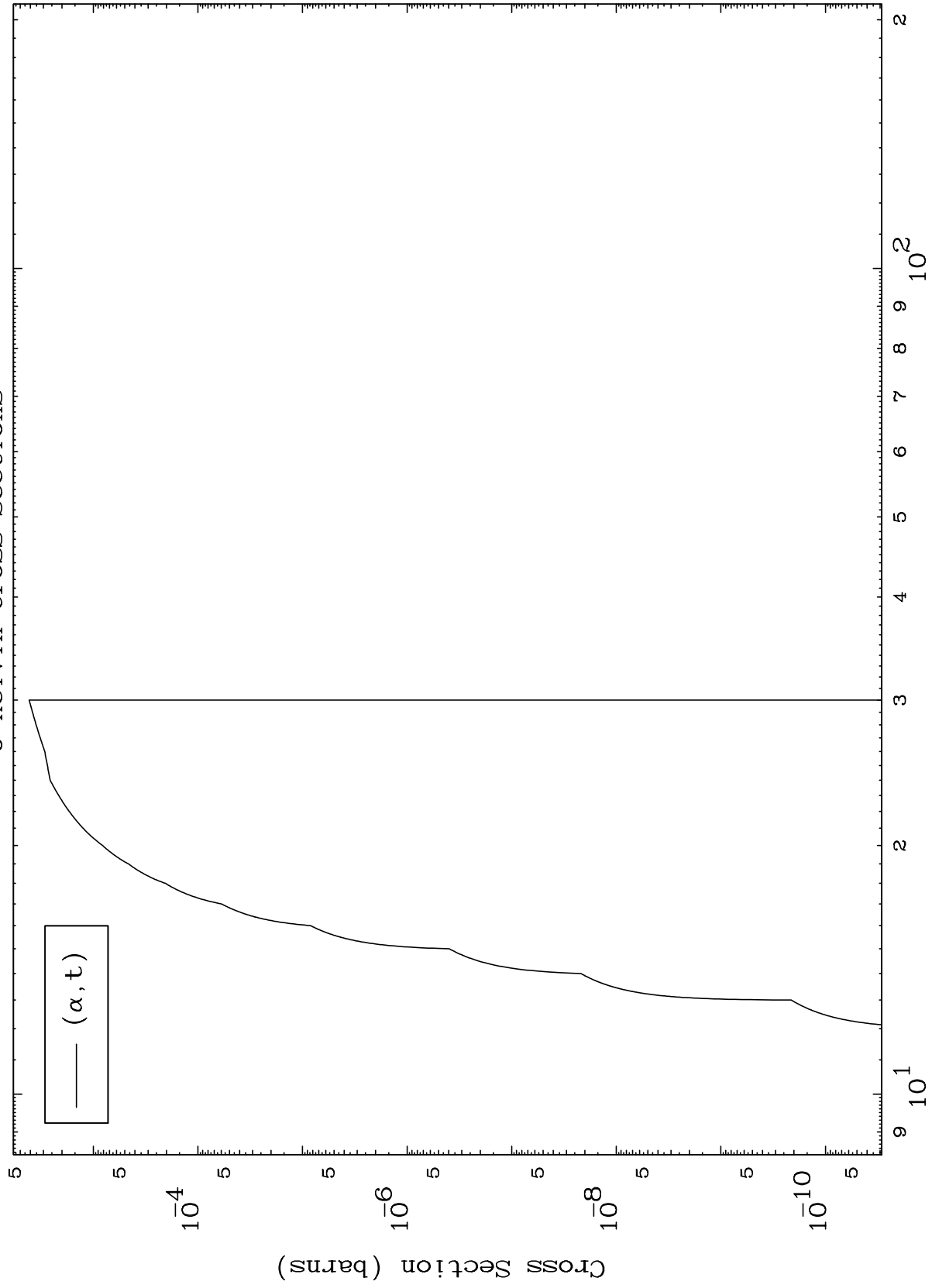
Incident Energy (MeV)

41-Nb-100

MAT 4147

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

41-Nb-100



9

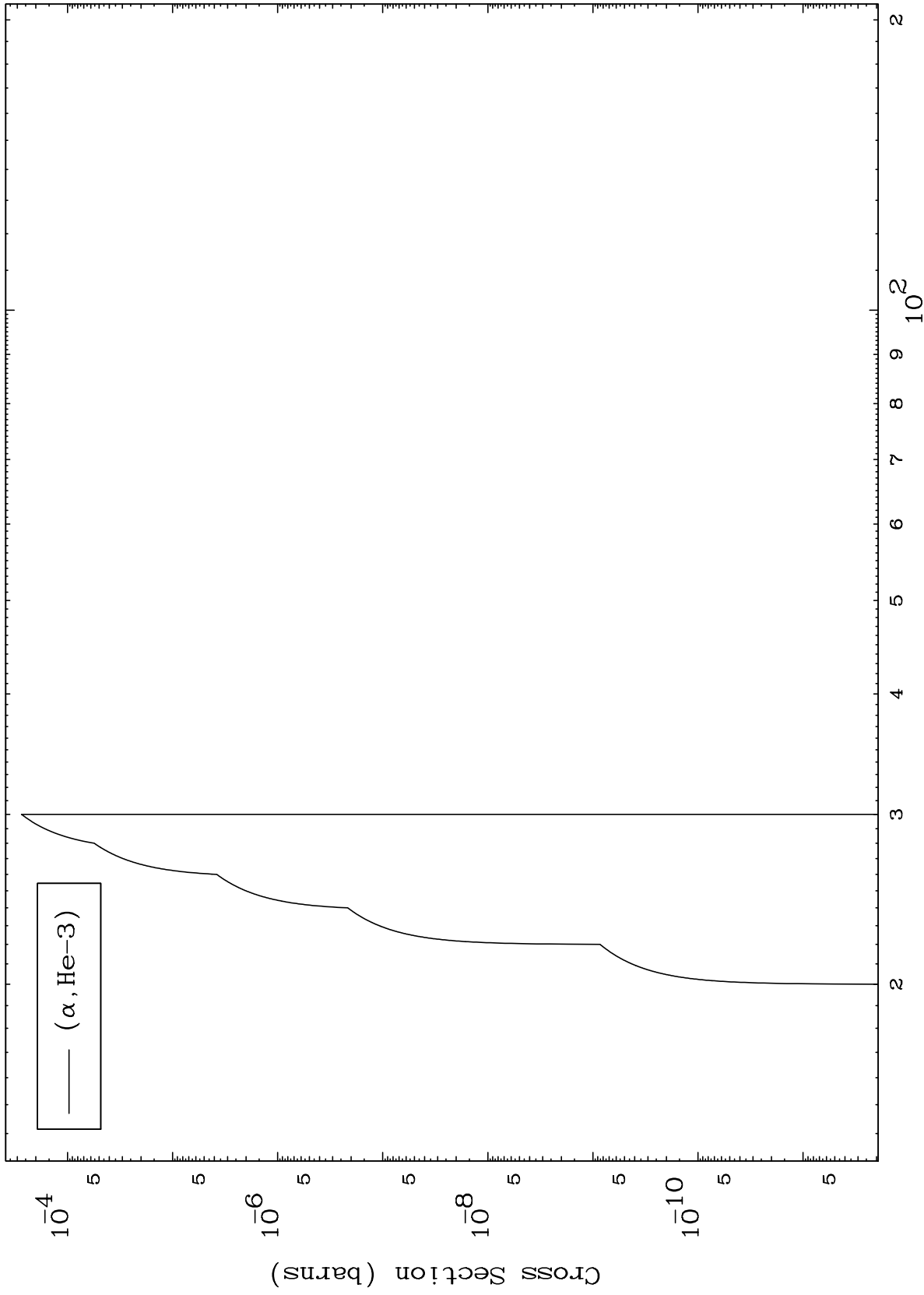
Incident Energy (MeV)

41-Nb-100

MAT 4147

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

41-Nb-100



10

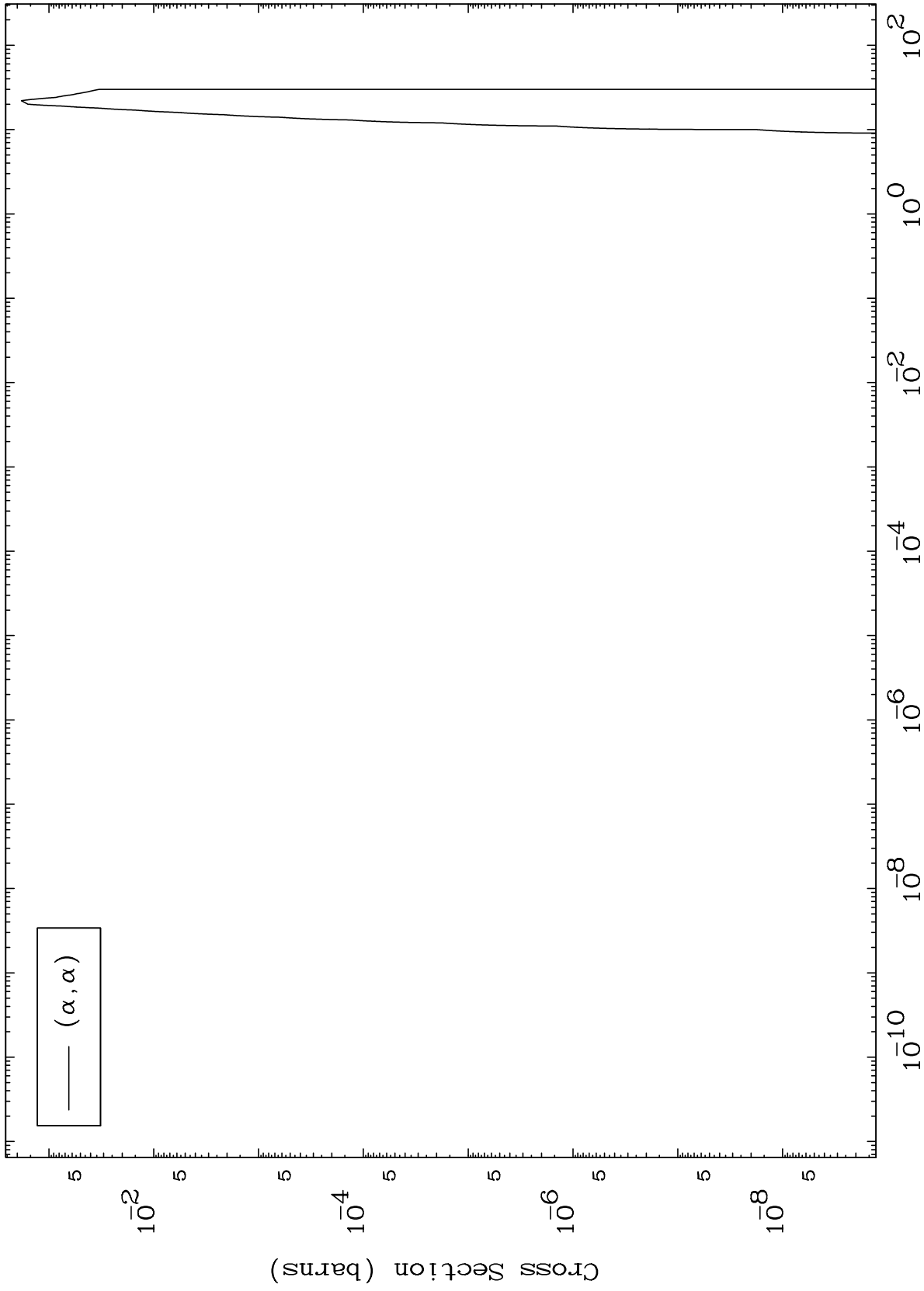
Incident Energy (MeV)

41-Nb-100

MAT 4147

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

41-Nb-100



11

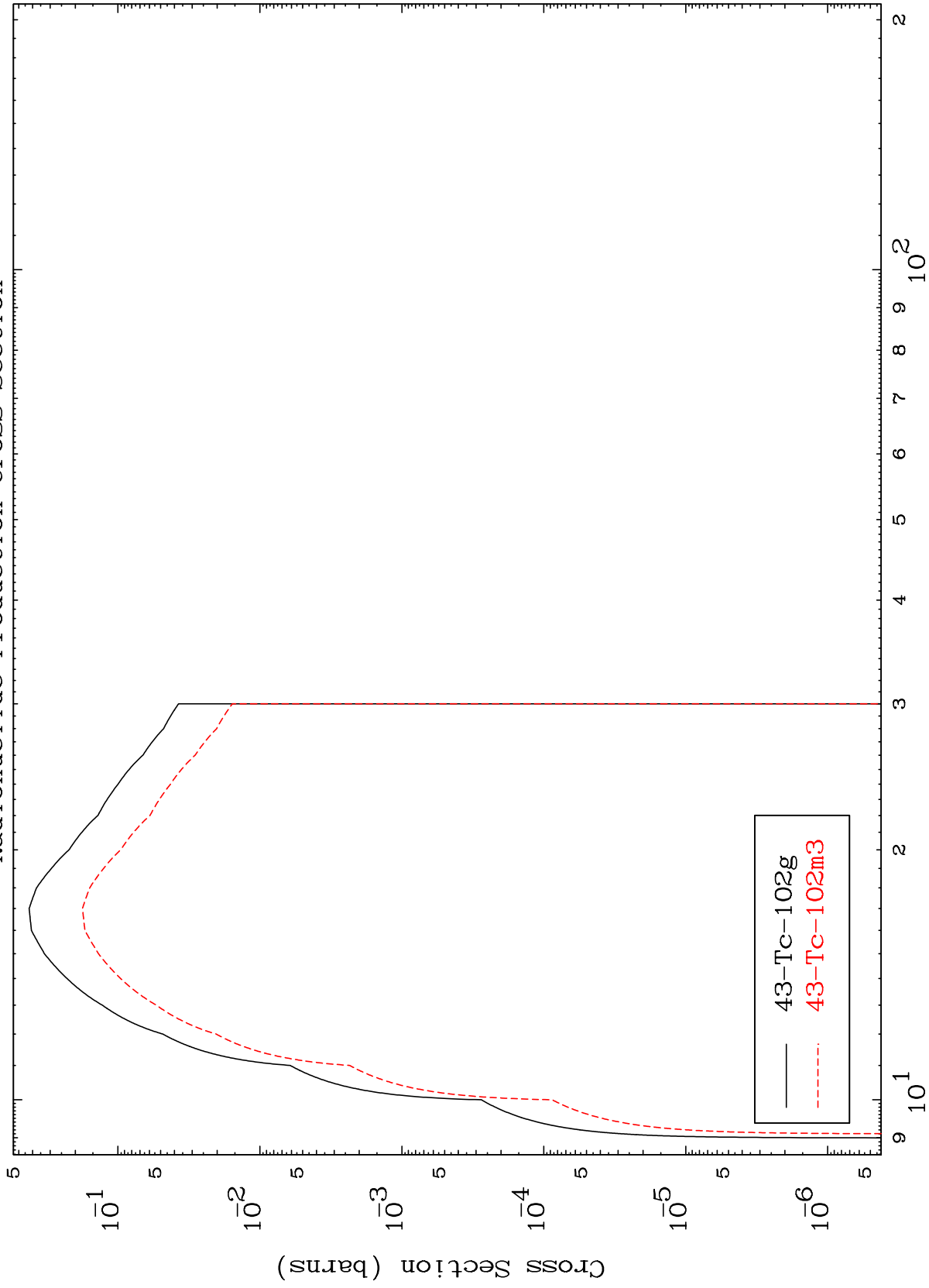
Incident Energy (MeV)

41-Nb-100

MAT 4147

41-Nb-100

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



12

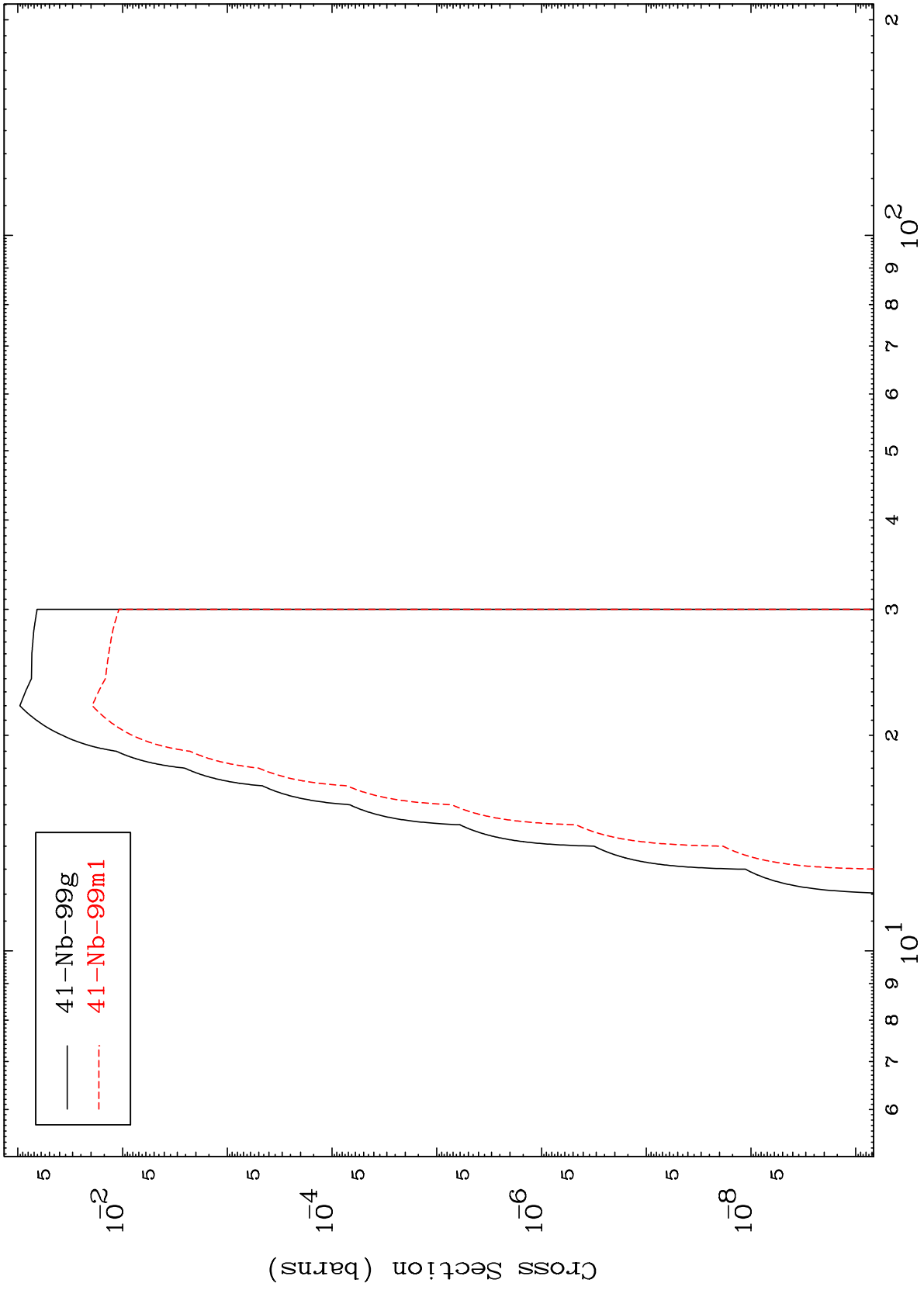
41-Nb-100

41-Nb-100

MAT 4147

41-Nb-100

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



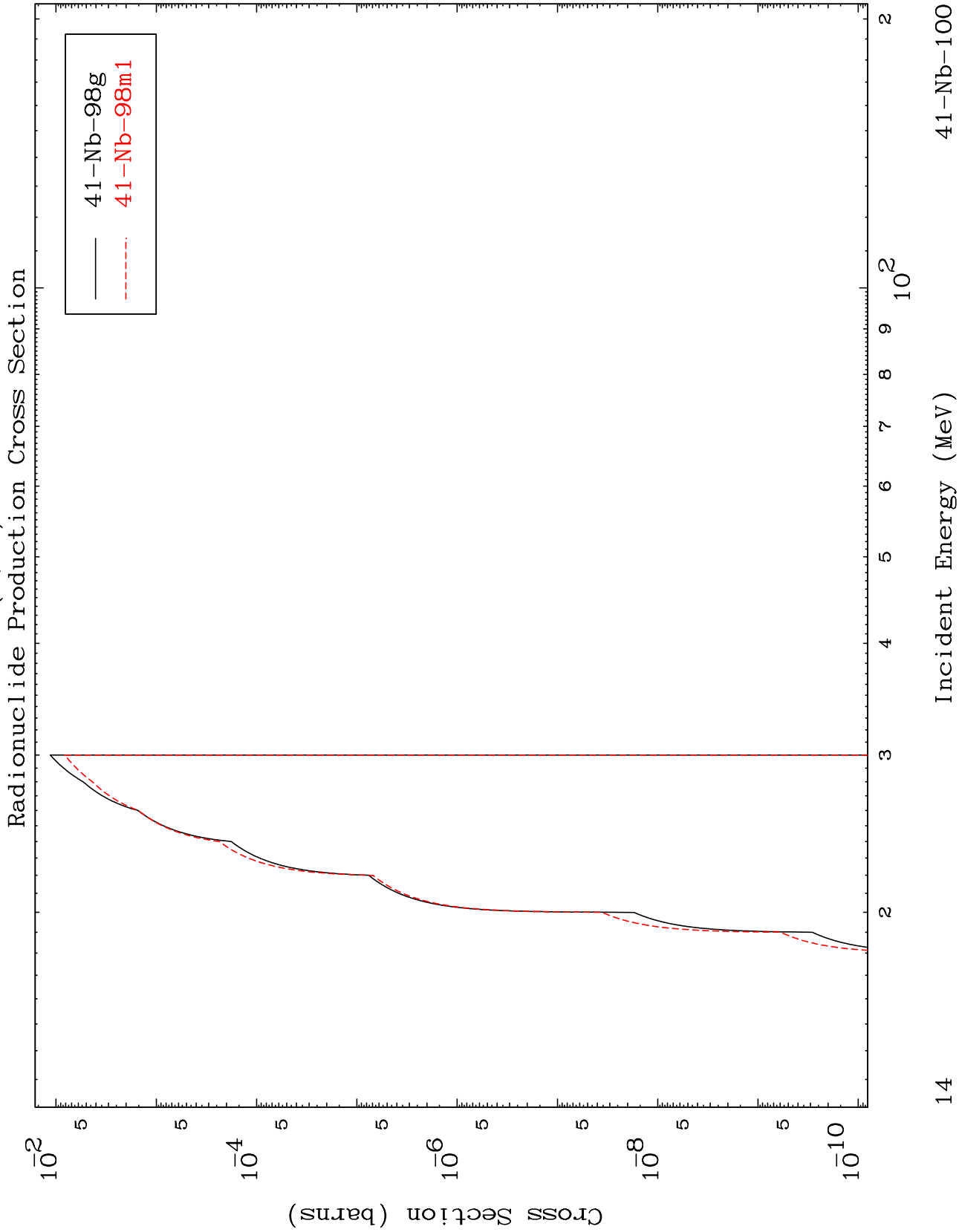
13

41-Nb-100

MAT 4147

$(\alpha, 2n) \alpha$

41-Nb-100



14

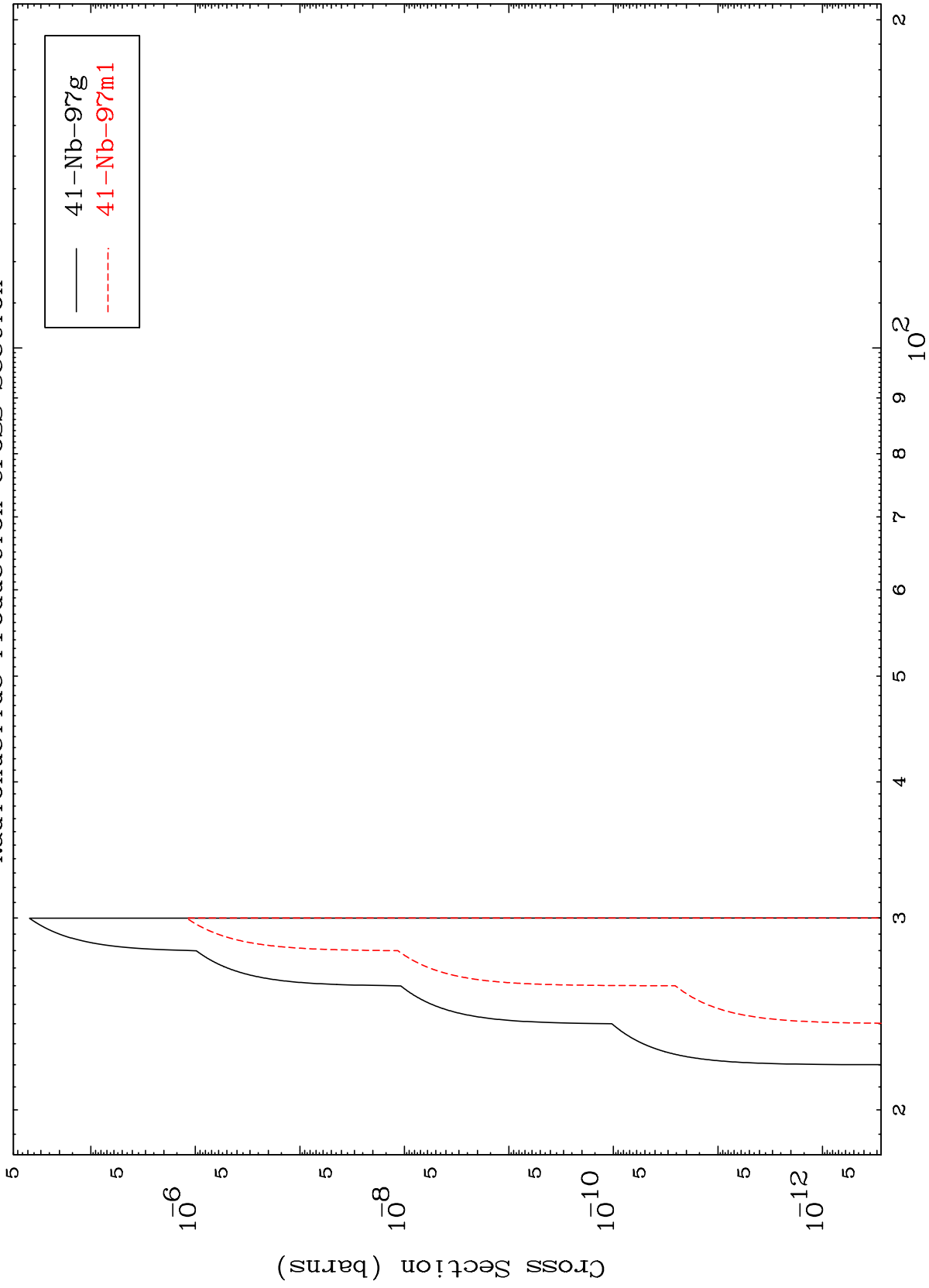
41-Nb-100

MAT 4147

( $\alpha, 3n$ )  $\alpha$

41-Nb-100

Radionuclide Production Cross Section



15

Incident Energy (MeV)

41-Nb-100

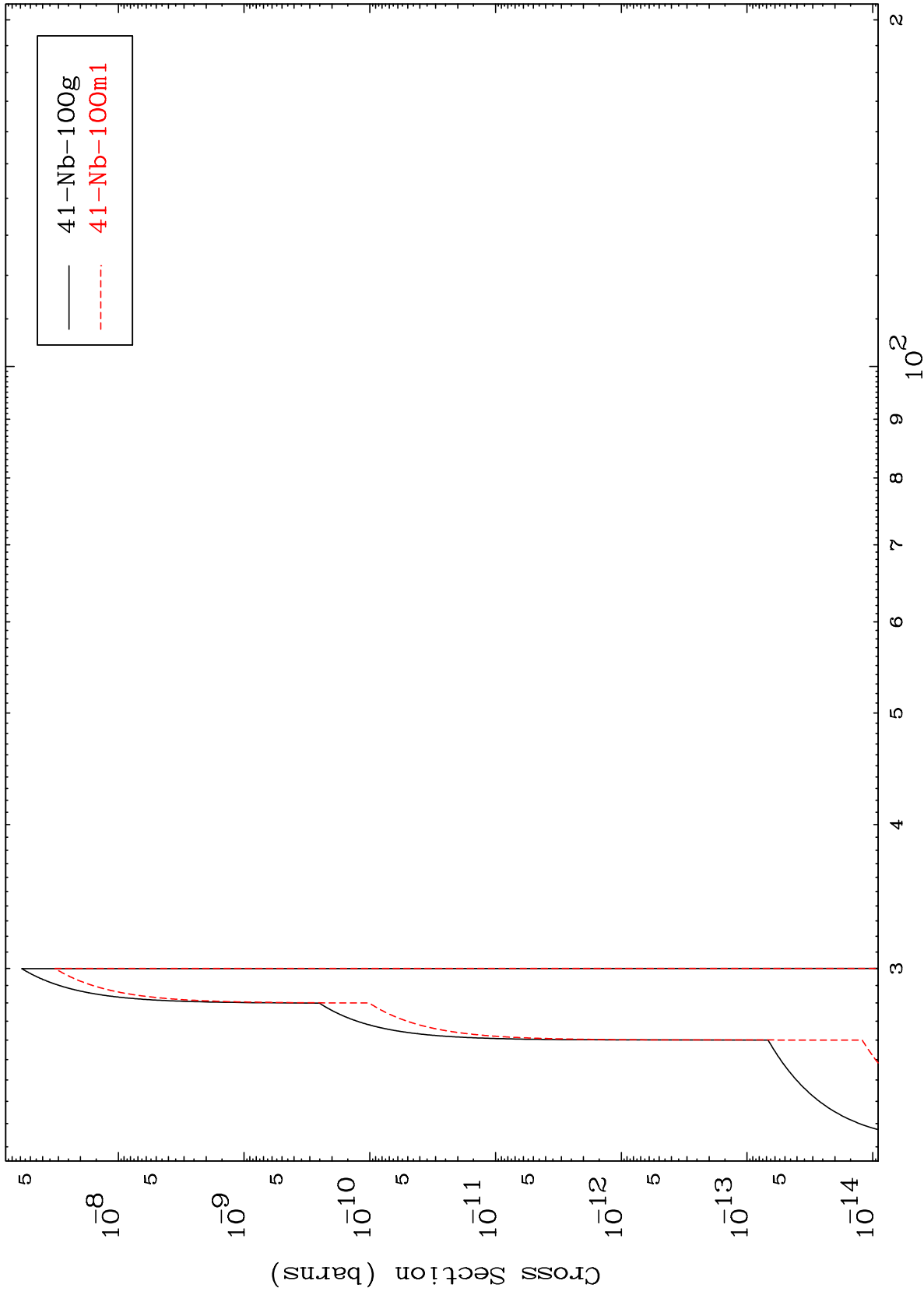


MAT 4147

( $\alpha, n'$ ) He-3

41-Nb-100

Radionuclide Production Cross Section



16

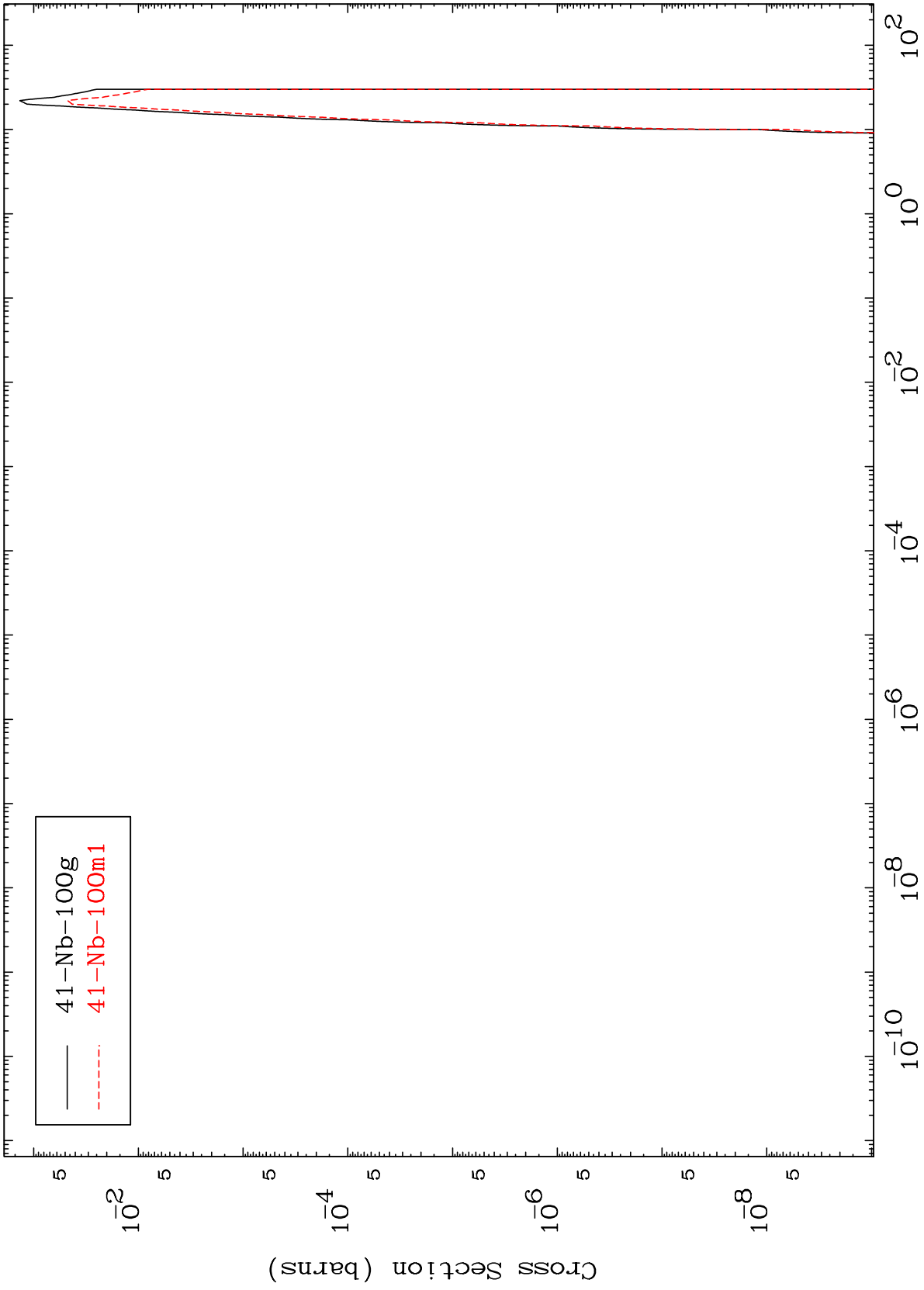
Incident Energy (MeV)

41-Nb-100

MAT 4147

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

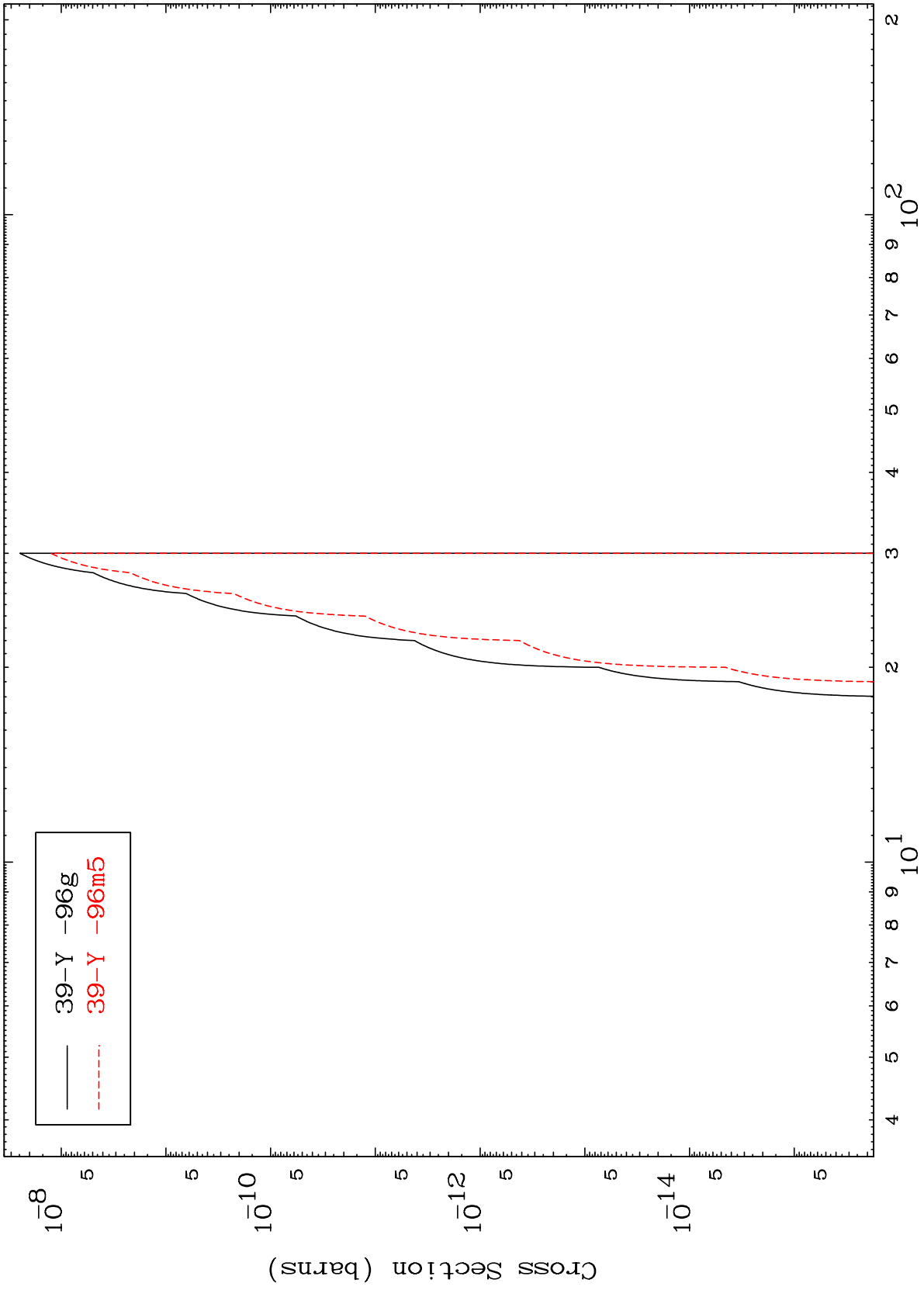
41-Nb-100



MAT 4147

41-Nb-100

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



18

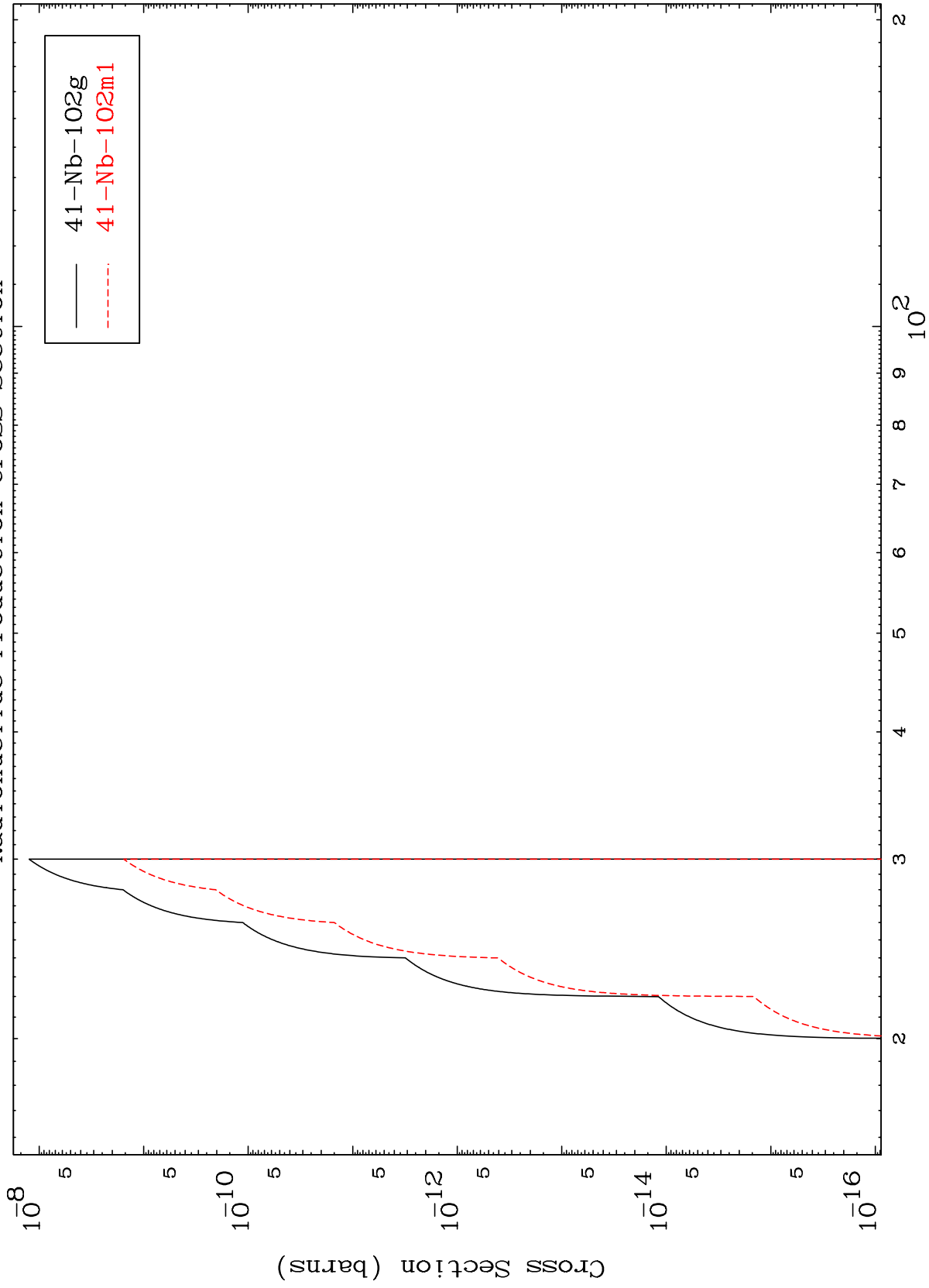
Incident Energy (MeV)

41-Nb-100

MAT 4147

41-Nb-100

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



19

Incident Energy (MeV)

41-Nb-100