

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

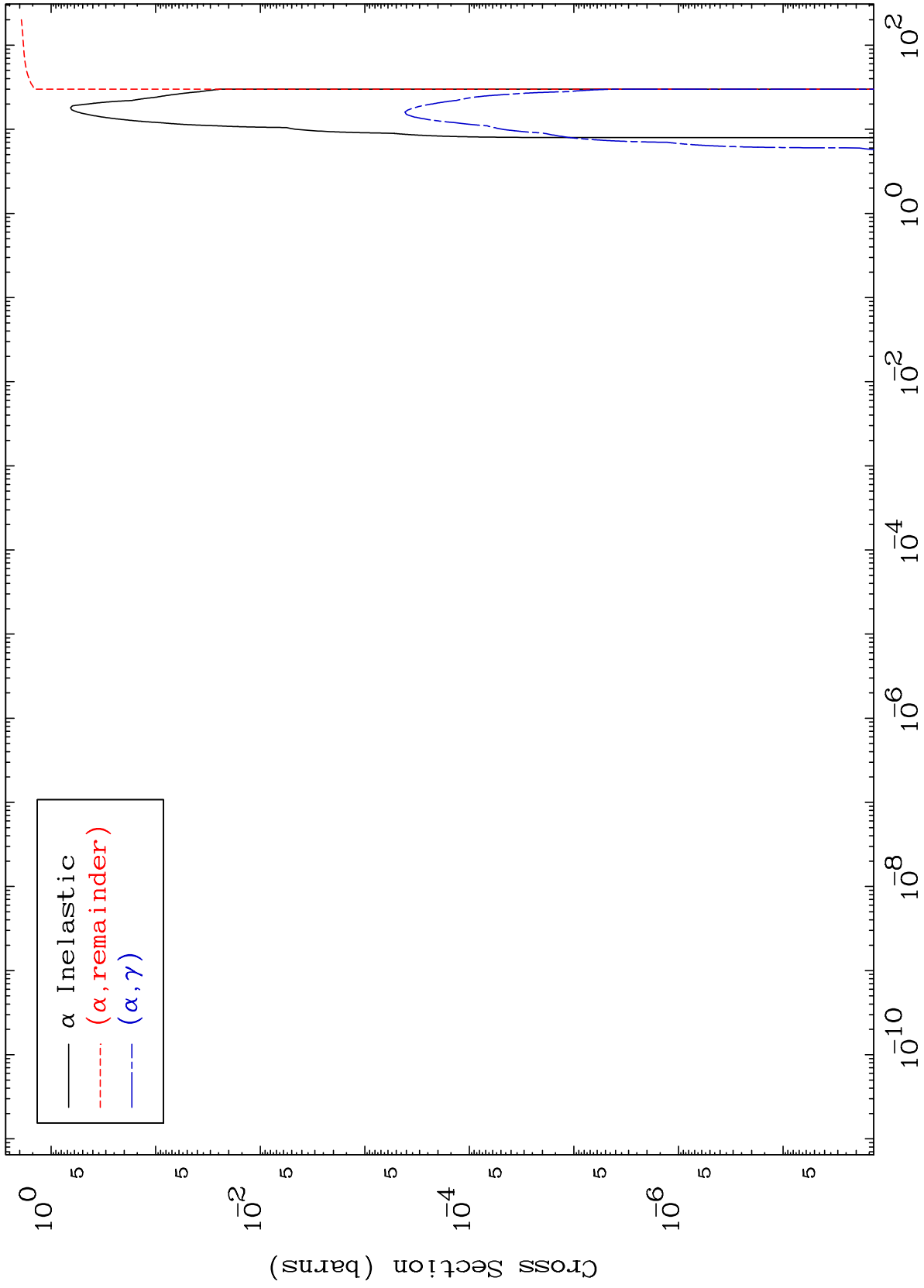
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

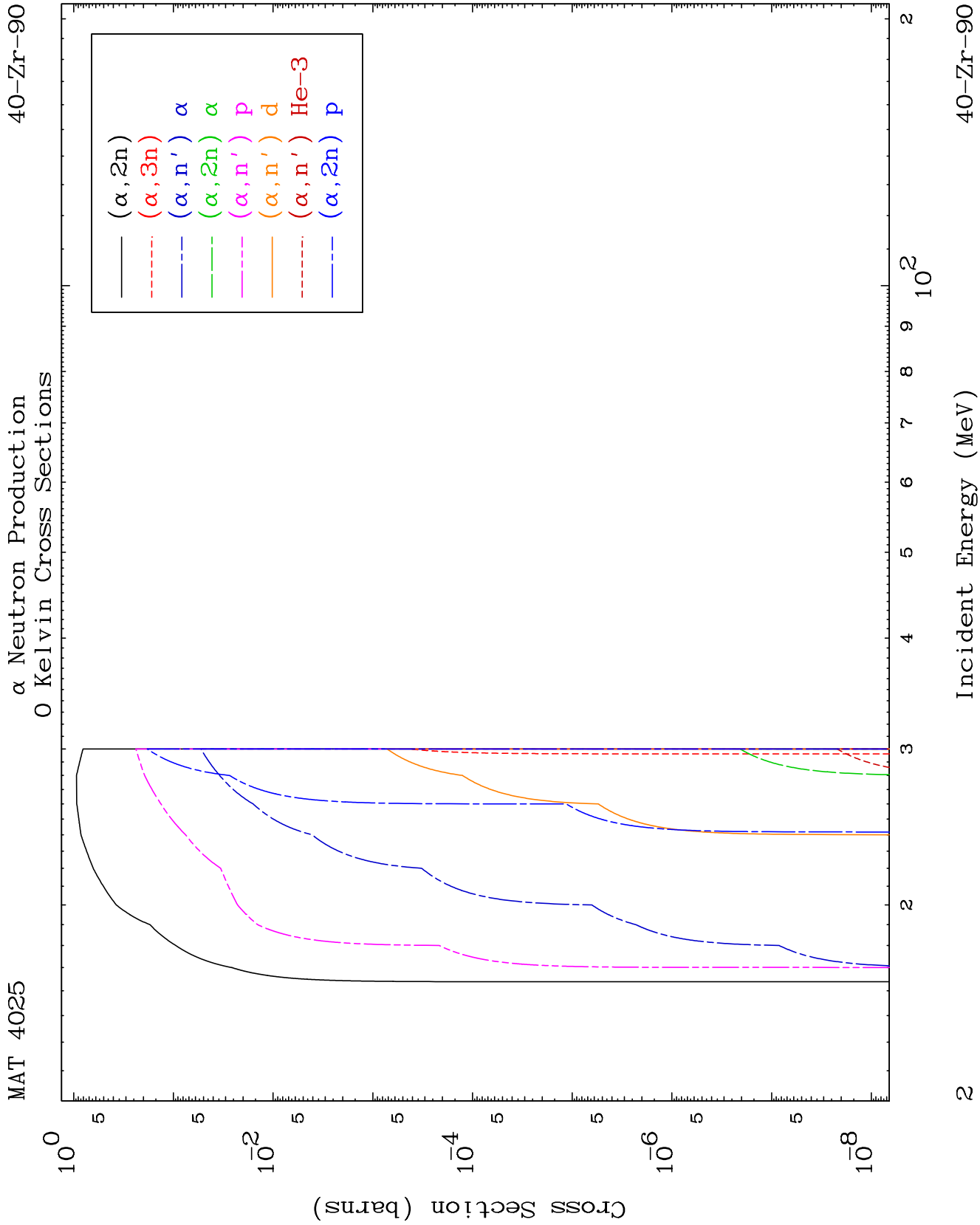
Press Mouse Button to Start

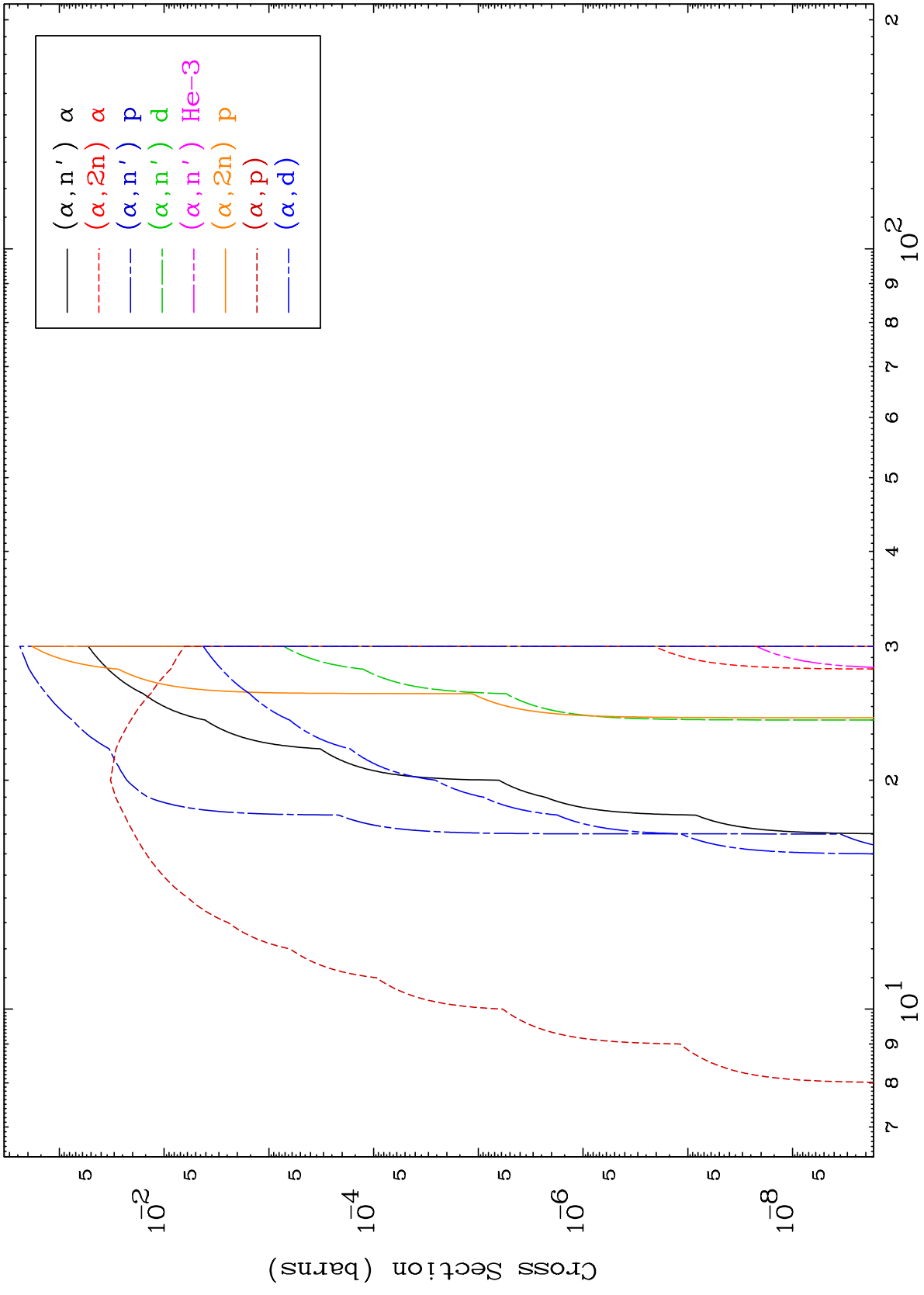
MAT 4025

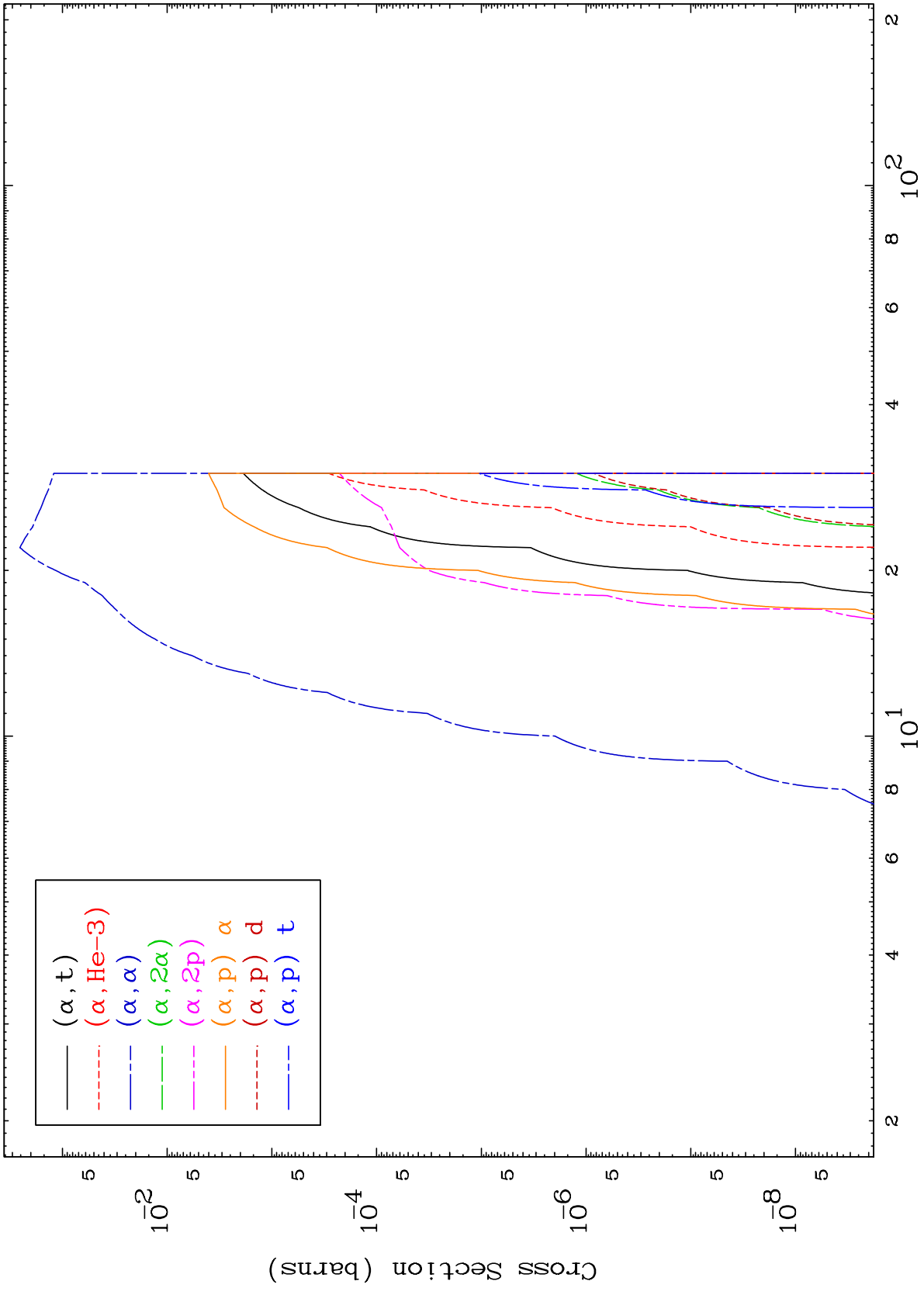
0 Kelvin  $\alpha$  Major  
Cross Sections

40-Zr-90





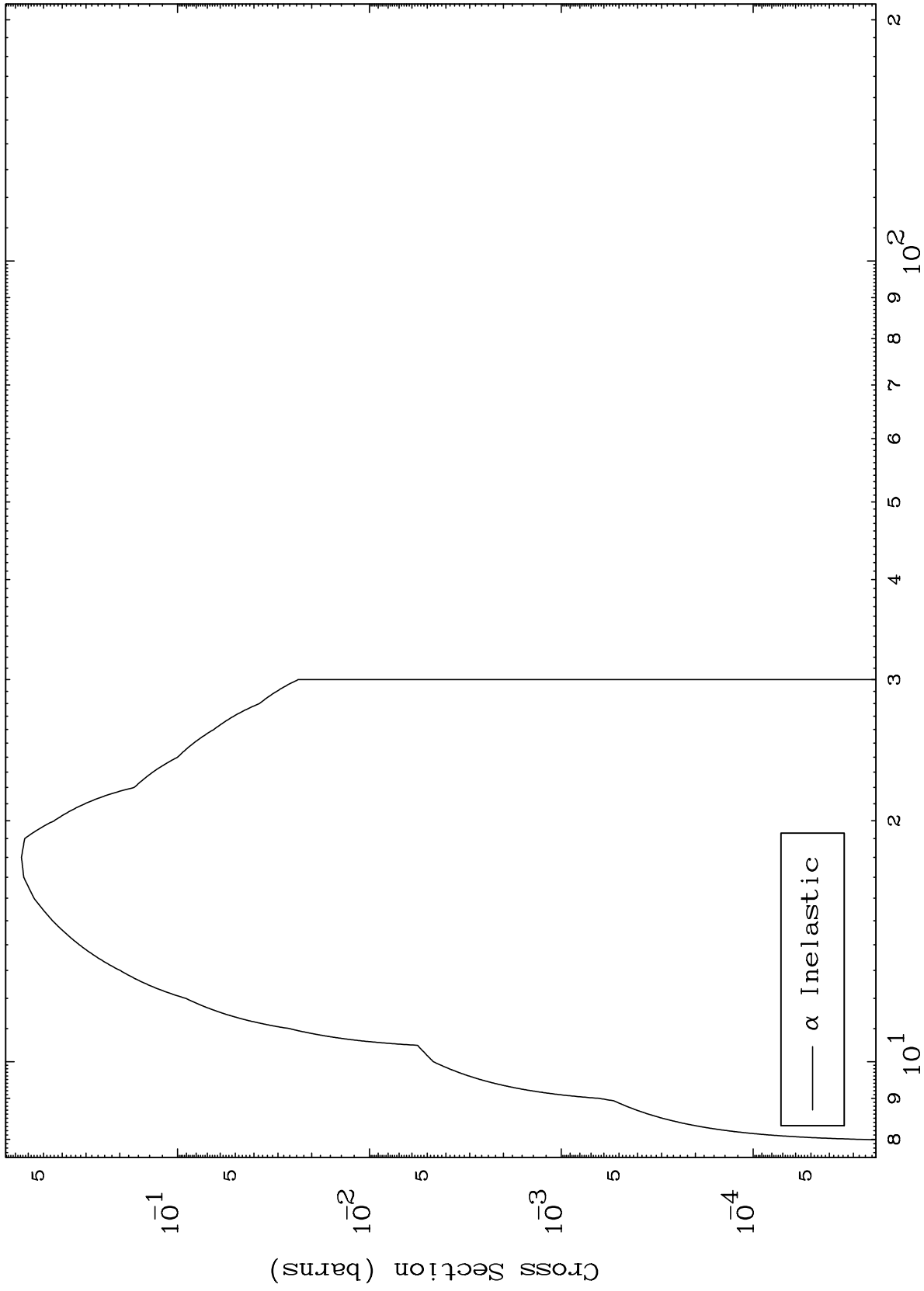




MAT 4025

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

40-Zr-90



5

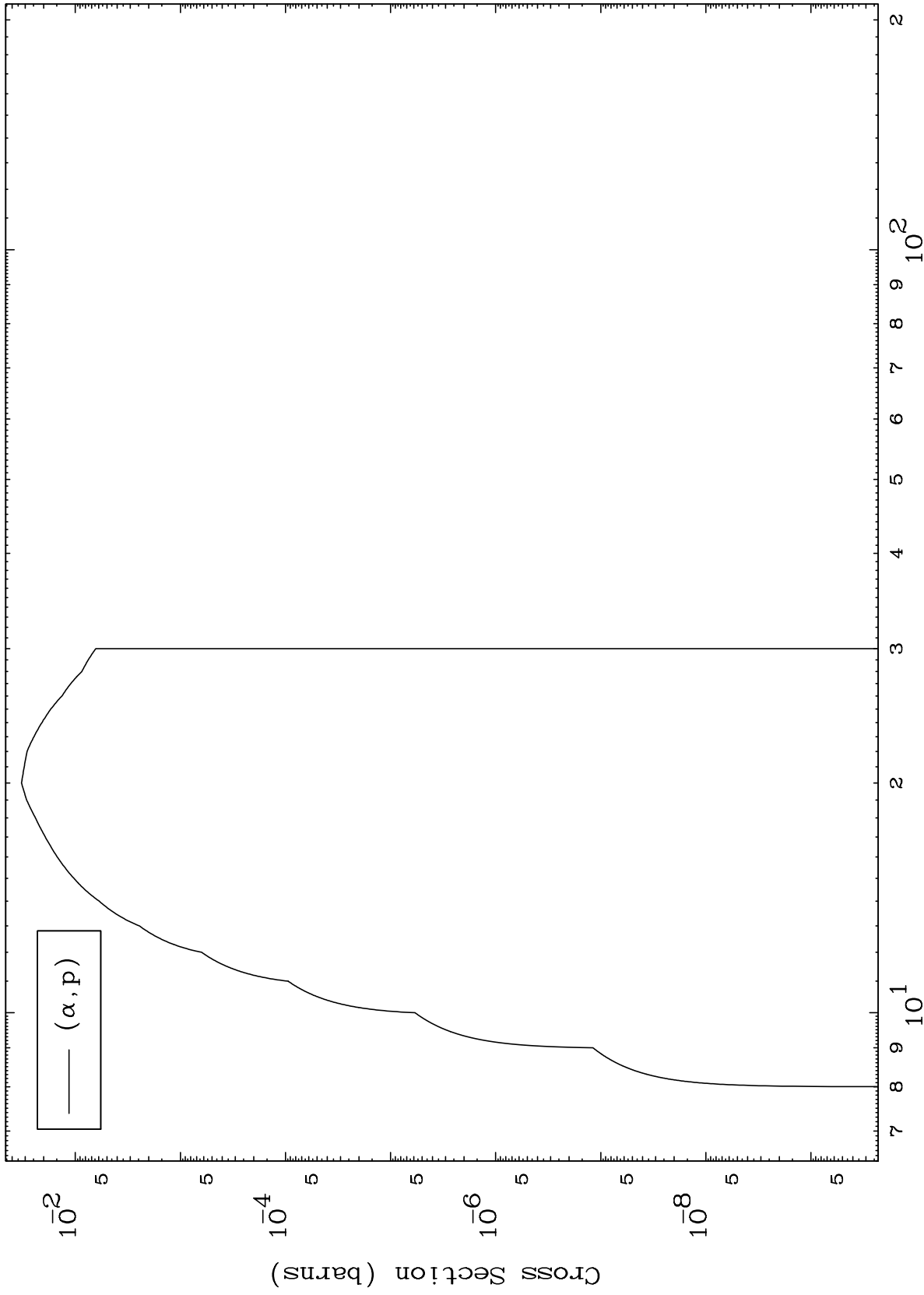
Incident Energy (MeV)

40-Zr-90

MAT 4025

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

40-Zr-90



6

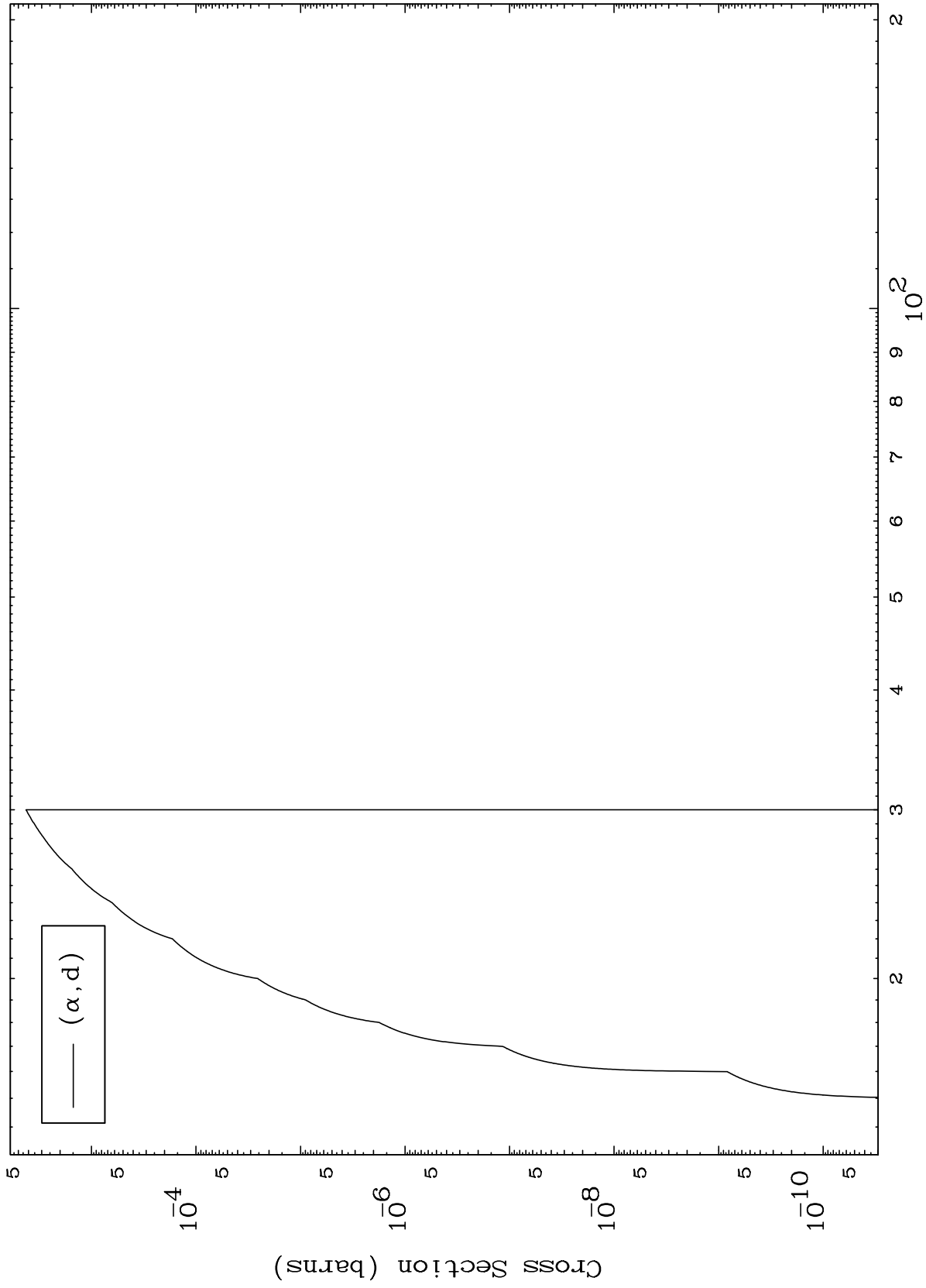
Incident Energy (MeV)

40-Zr-90

MAT 4025

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

40-Zr-90



7

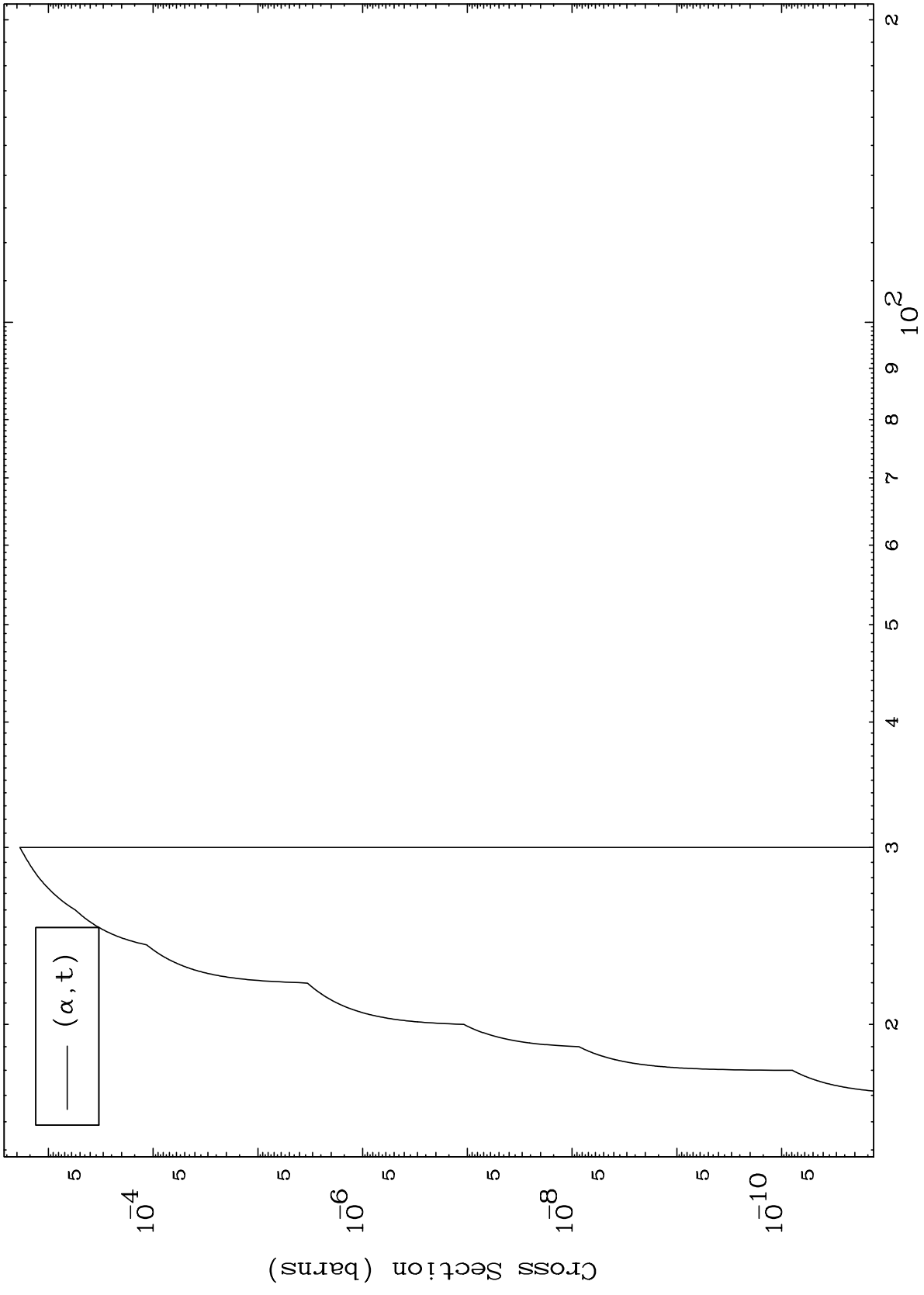
Incident Energy (MeV)

40-Zr-90

MAT 4025

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

40-Zr-90



8

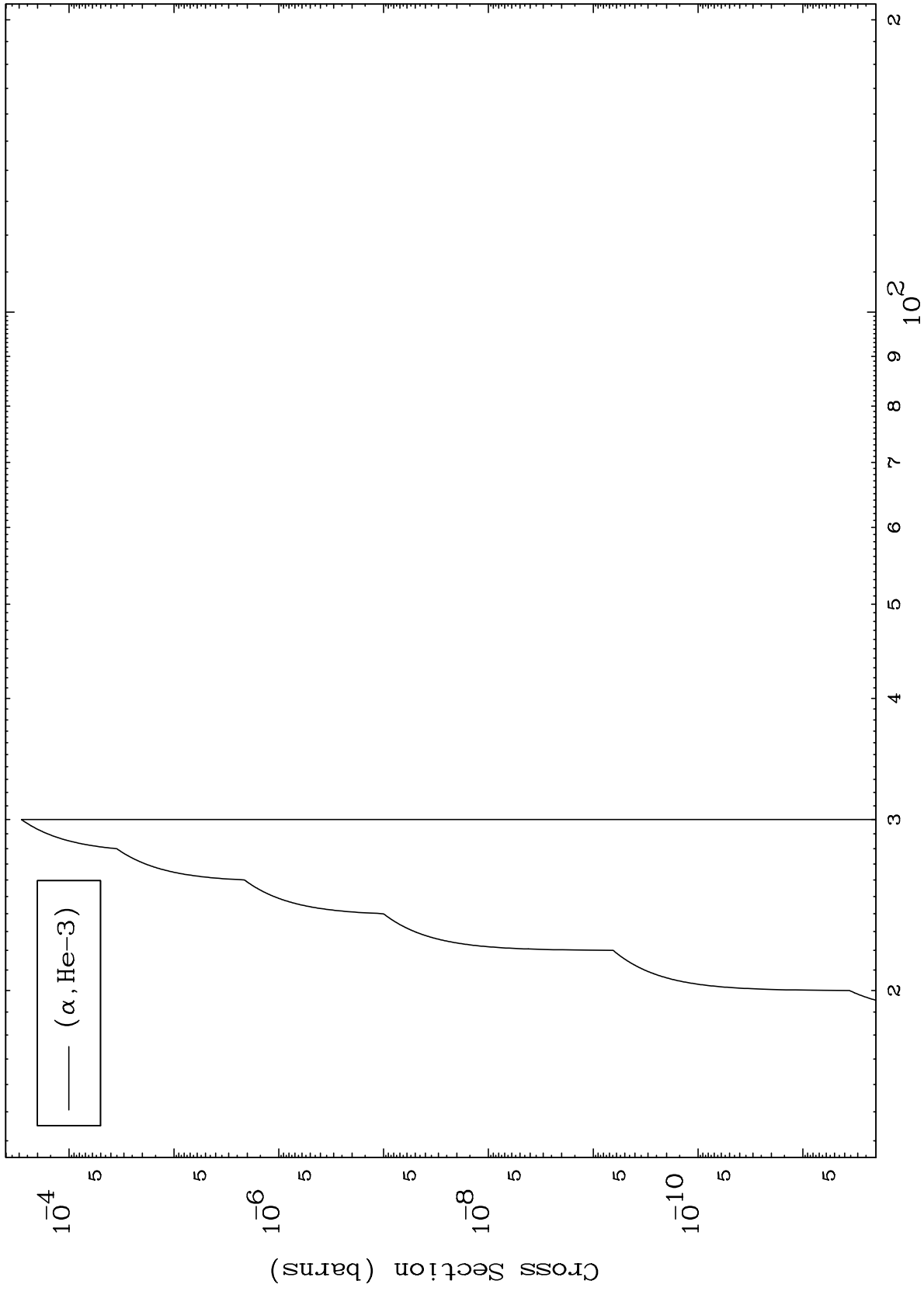
Incident Energy (MeV)

40-Zr-90

MAT 4025

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

40-Zr-90



9

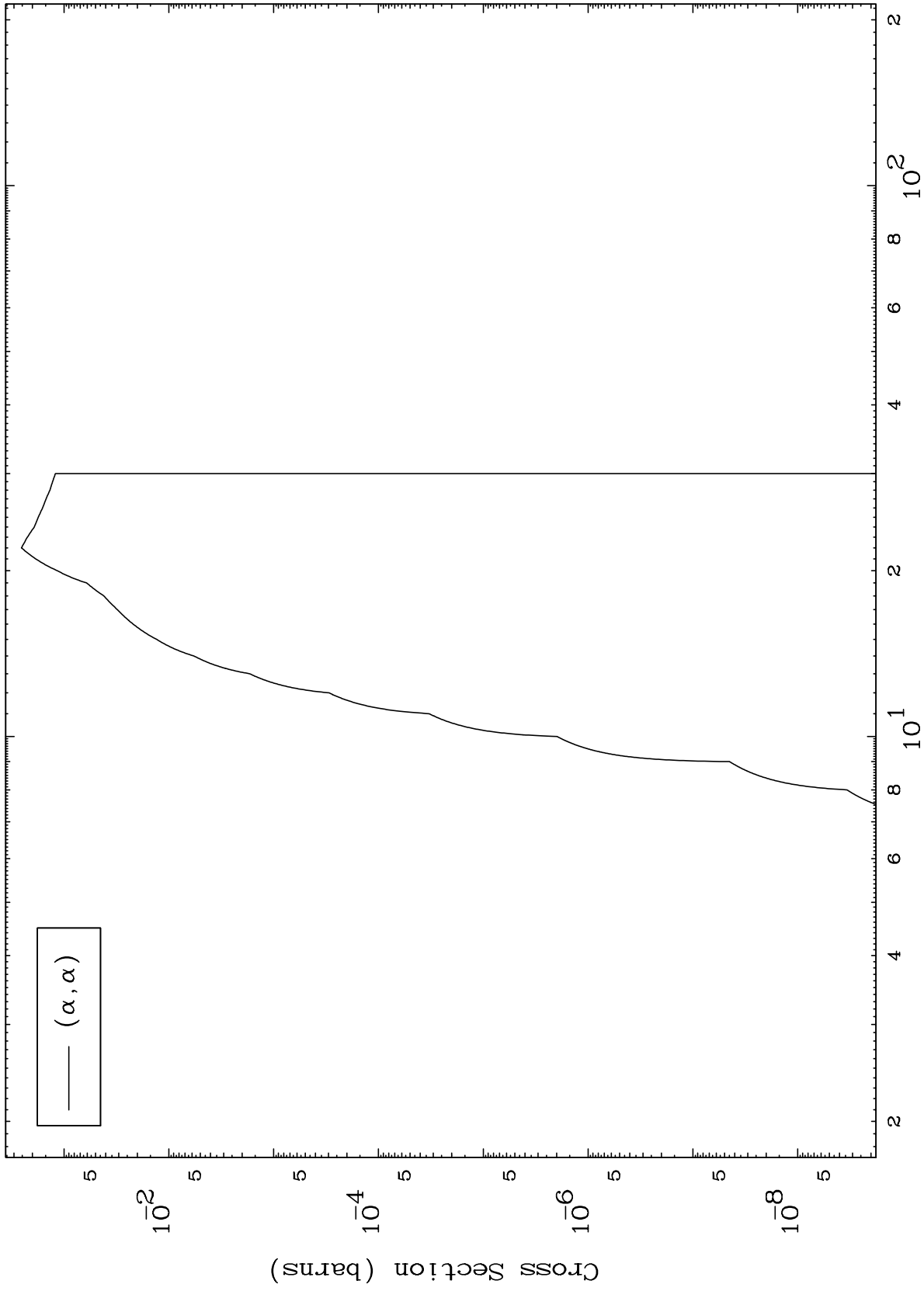
Incident Energy (MeV)

40-Zr-90

MAT 4025

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

40-Zr-90



10

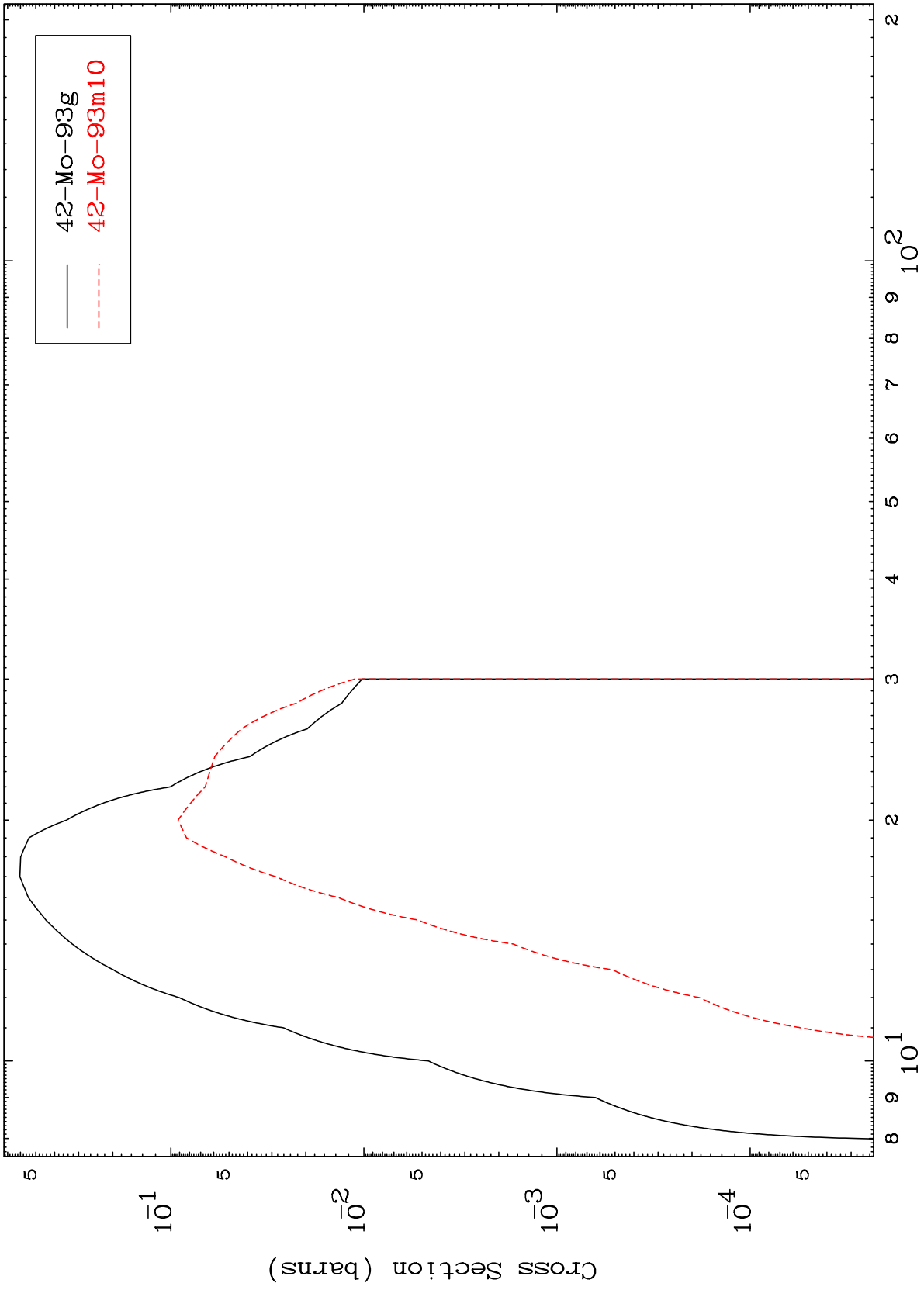
Incident Energy (MeV)

40-Zr-90

MAT 4025

$\alpha$  Inelastic  
Radionuclide Production Cross Section

40-Zr-90



11

Incident Energy (MeV)

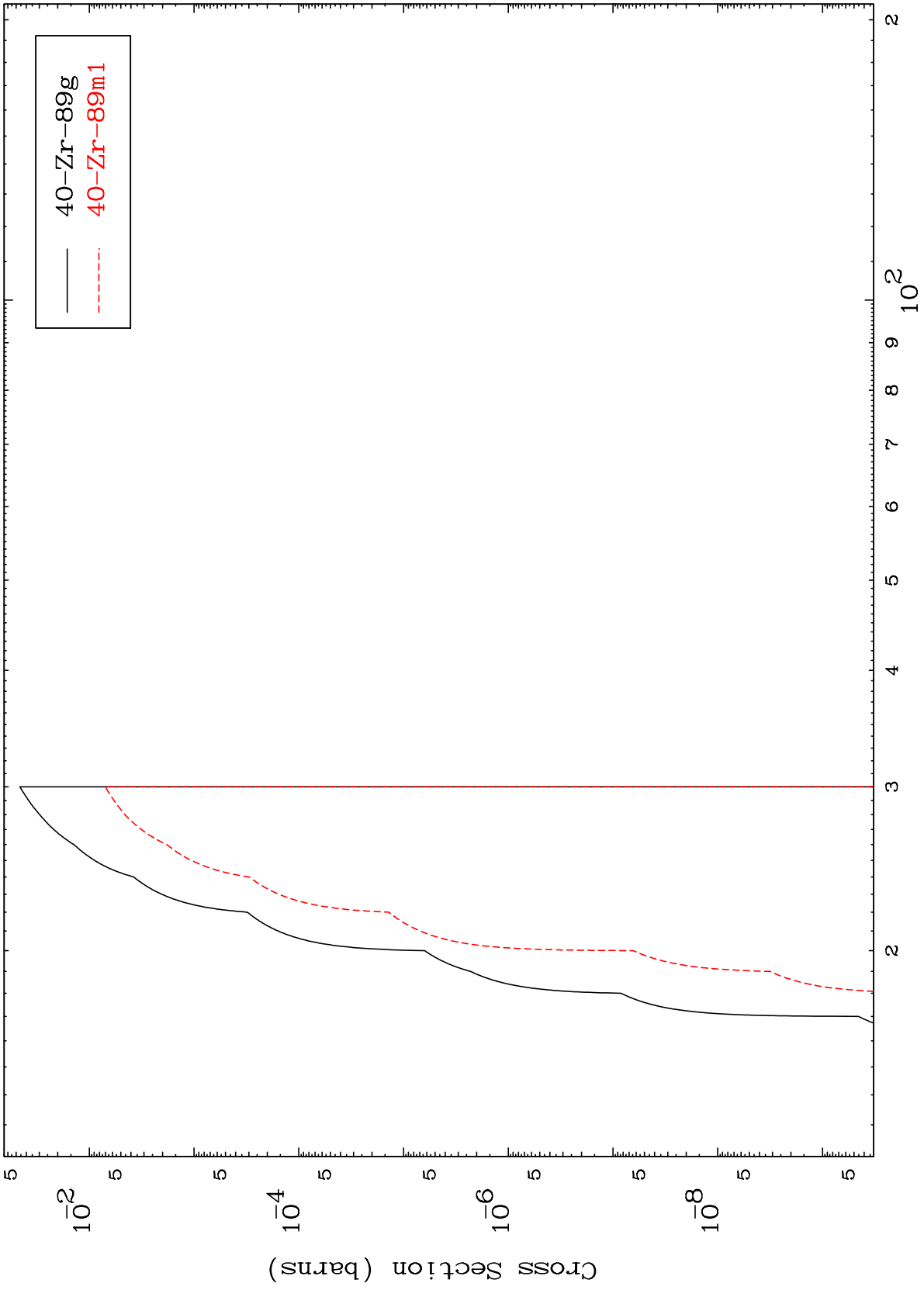
40-Zr-90

MAT 4025

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

40-Zr-90

Radionuclide Production Cross Section



12

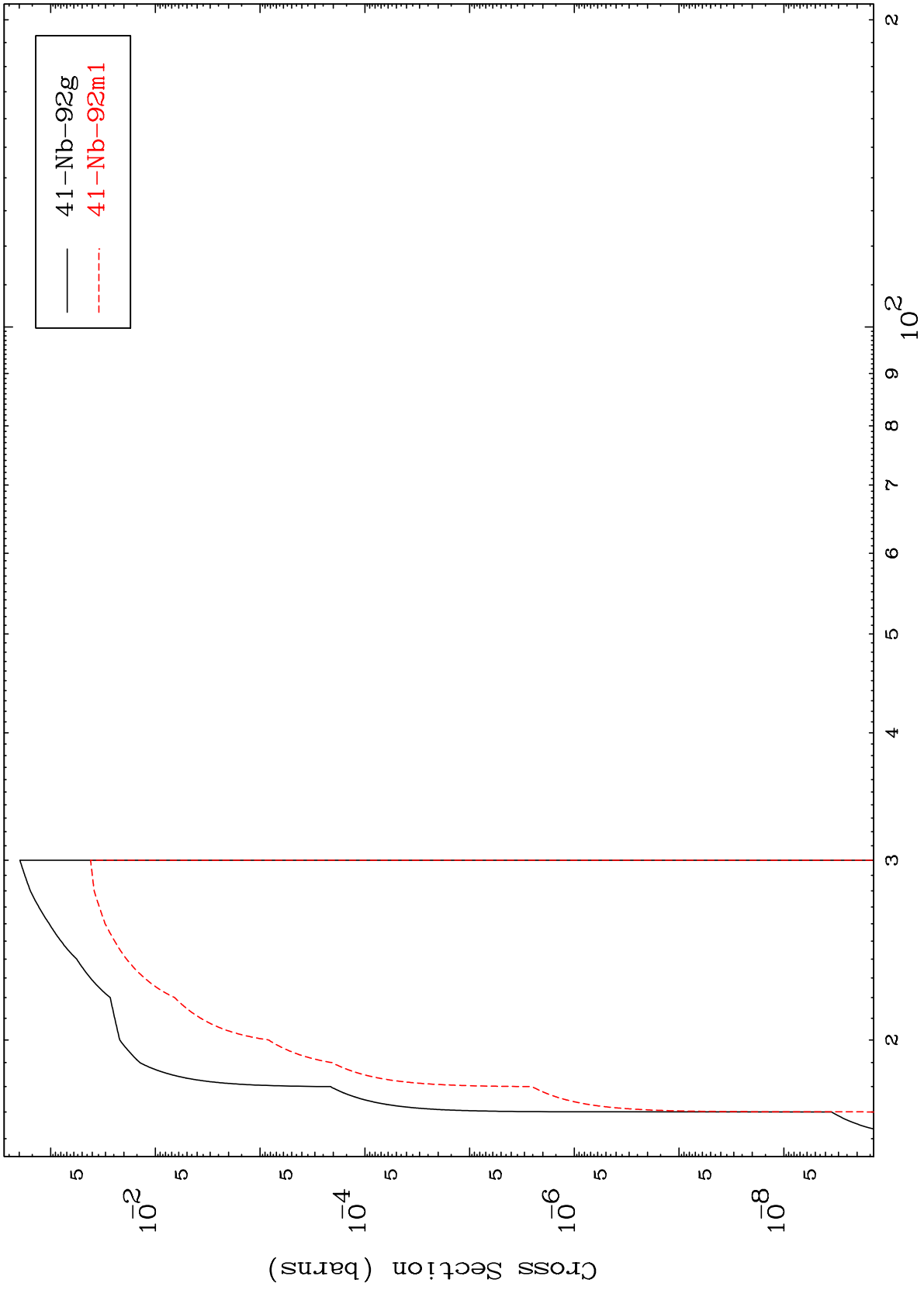
Incident Energy (MeV)

40-Zr-90

MAT 4025

40-Zr-90

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



13

40-Zr-90

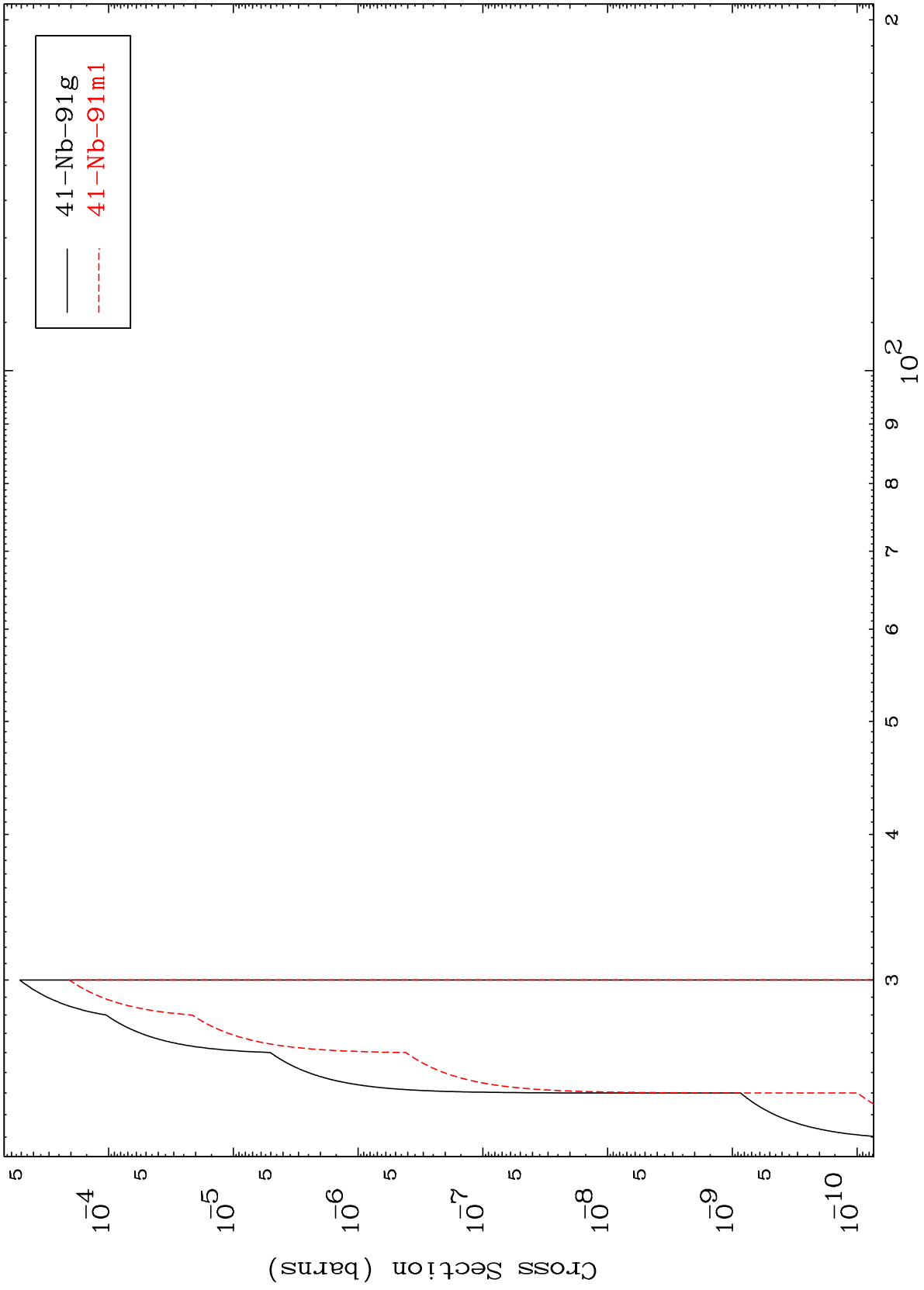
Incident Energy (MeV)

MAT 4025

( $\alpha, n'$ ) d

40-Zr-90

Radionuclide Production Cross Section



14

Incident Energy (MeV)

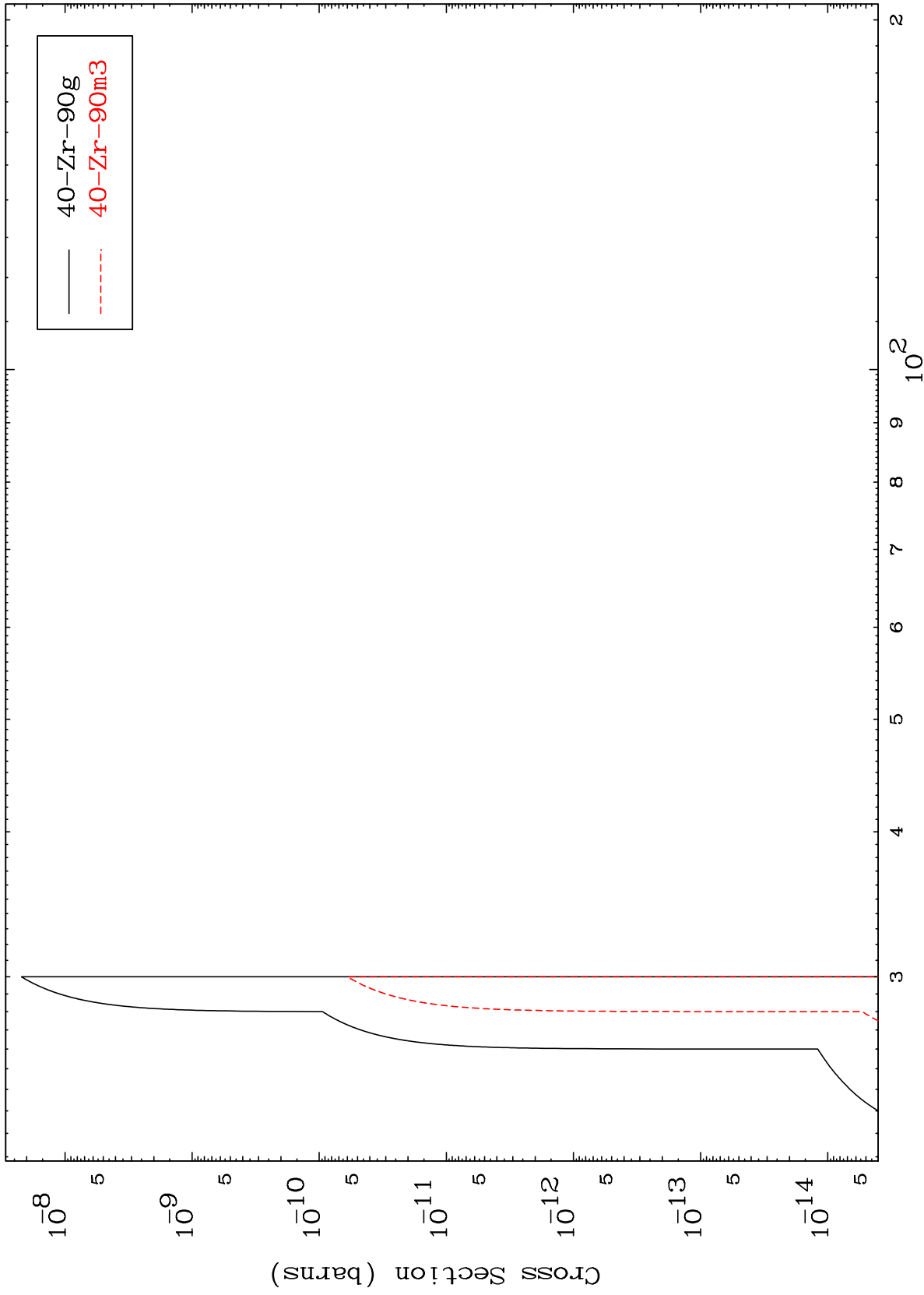
40-Zr-90

MAT 4025

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

40-Zr-90

Radionuclide Production Cross Section



15

Incident Energy (MeV)

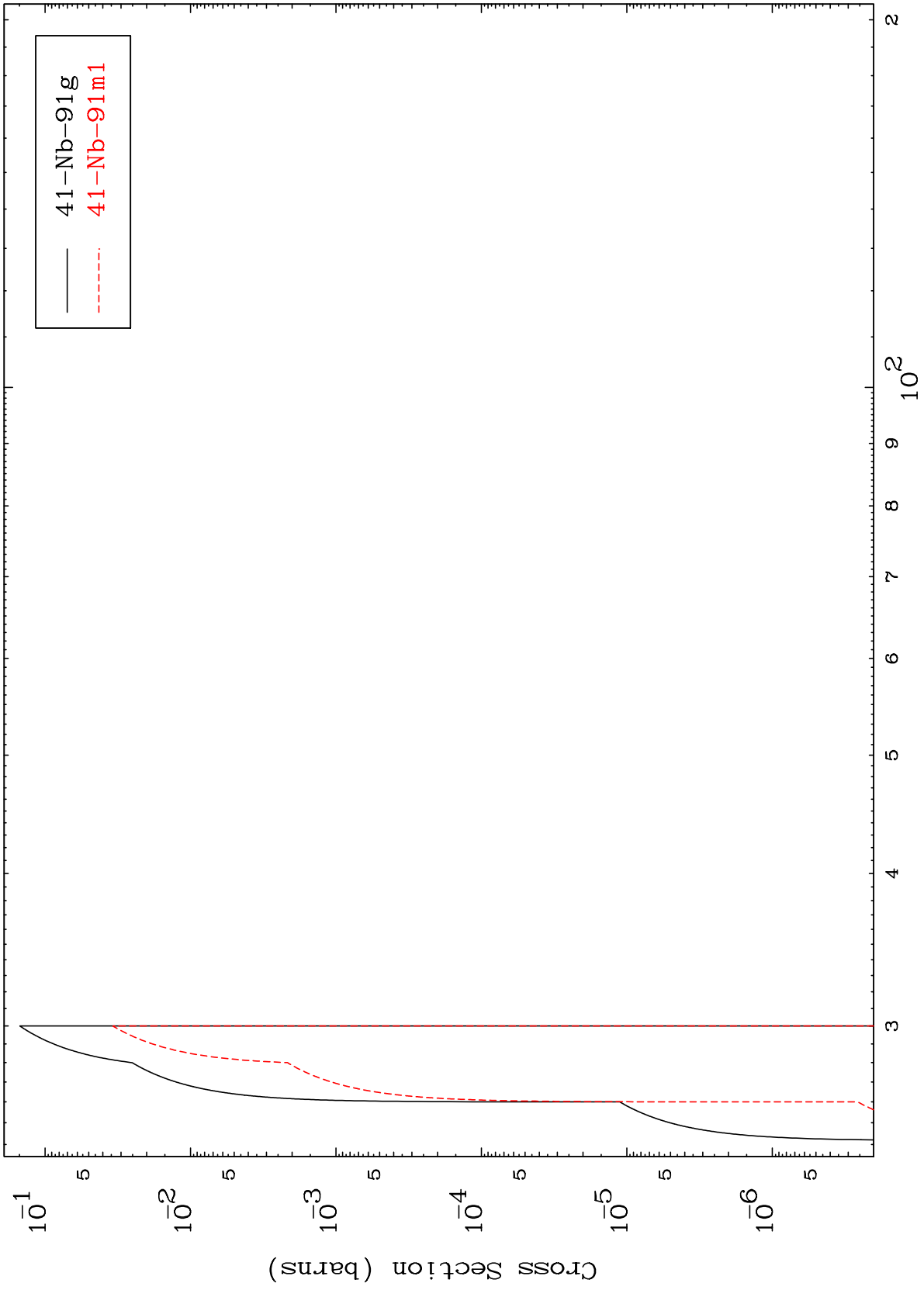
40-Zr-90

MAT 4025

( $\alpha, 2n$ ) p

40-Zr-90

Radionuclide Production Cross Section



16

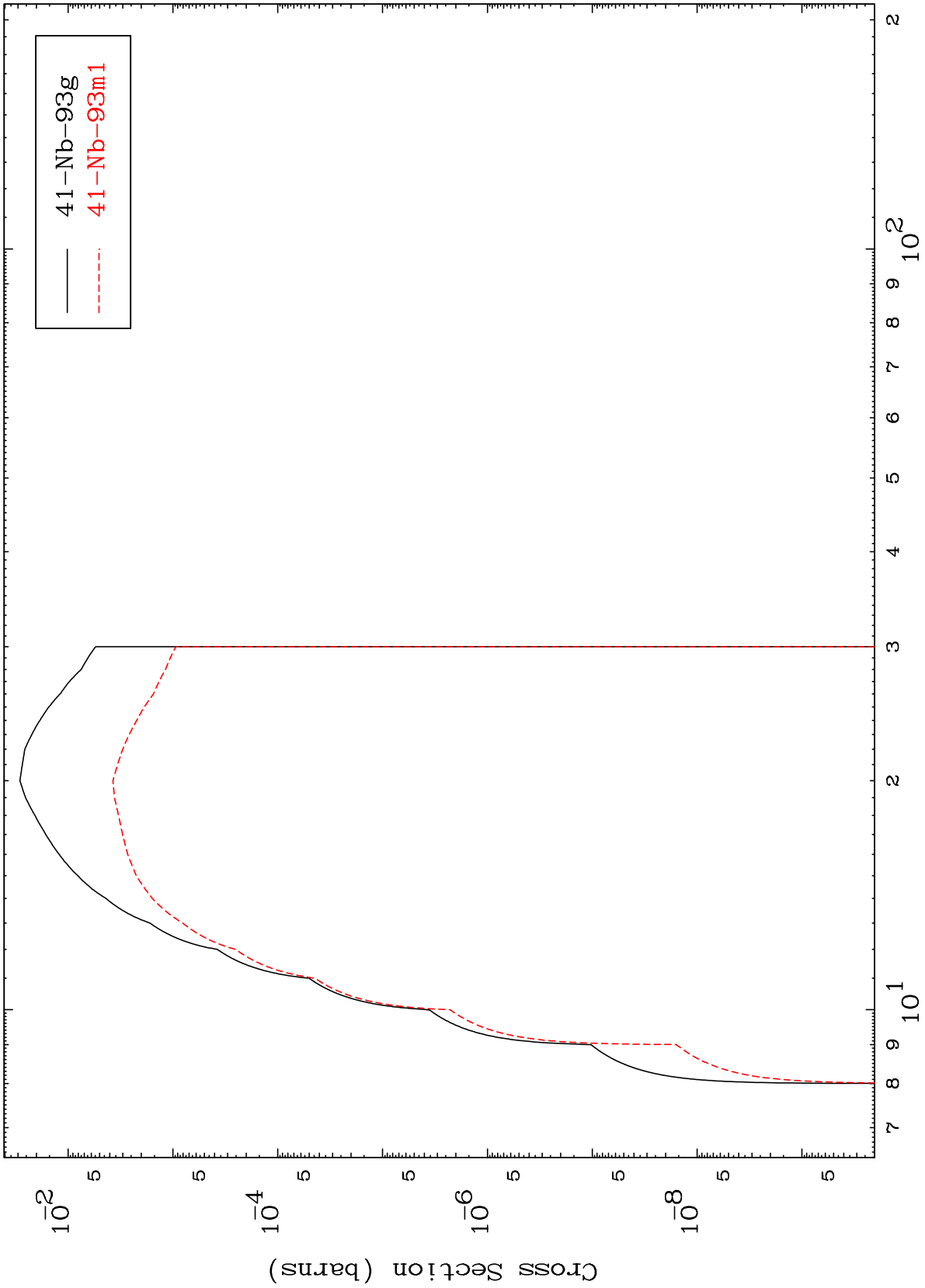
Incident Energy (MeV)

40-Zr-90

MAT 4025

40-Zr-90

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



17

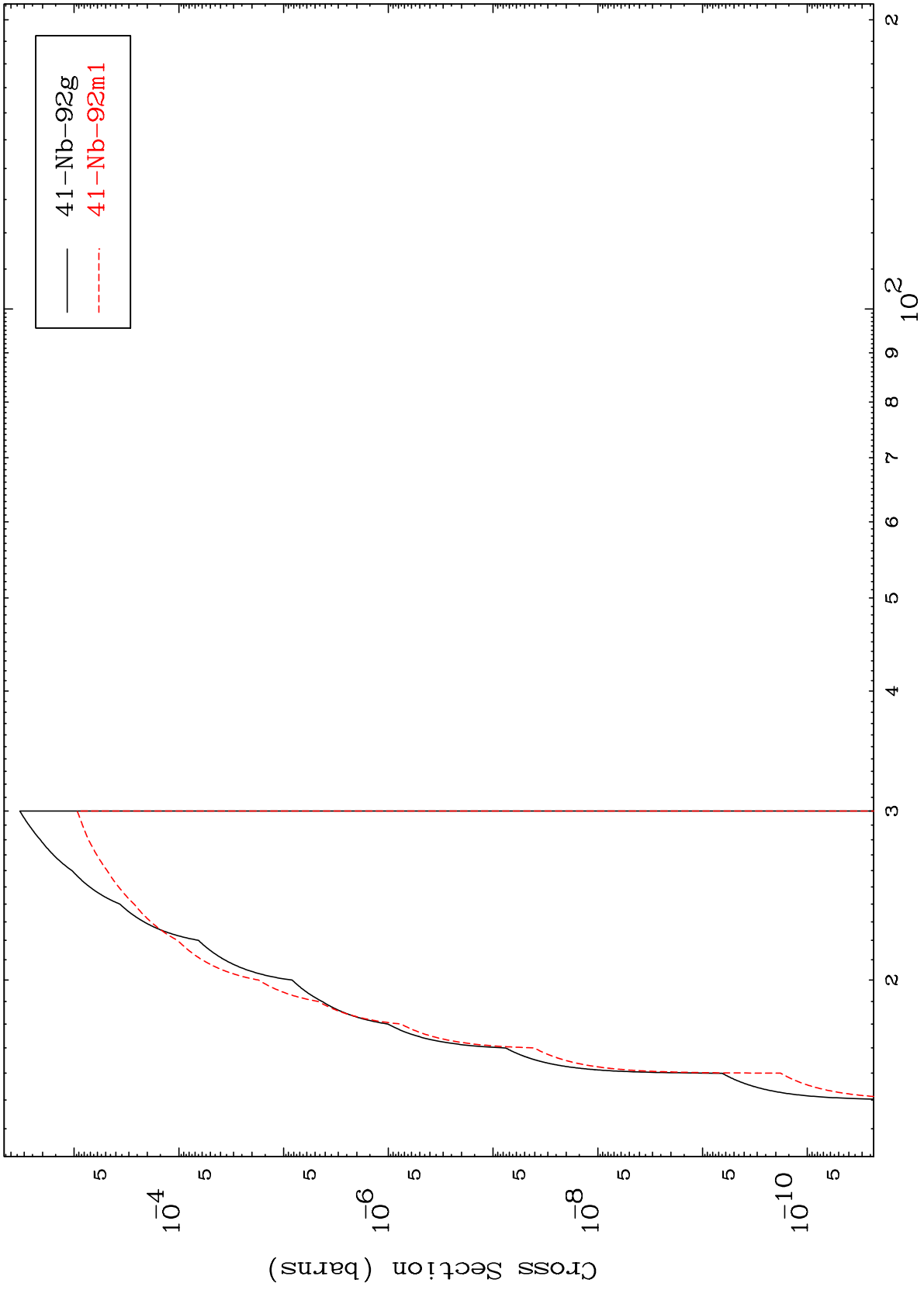
40-Zr-90

MAT 4025

( $\alpha, d$ )

40-Zr-90

Radionuclide Production Cross Section



18

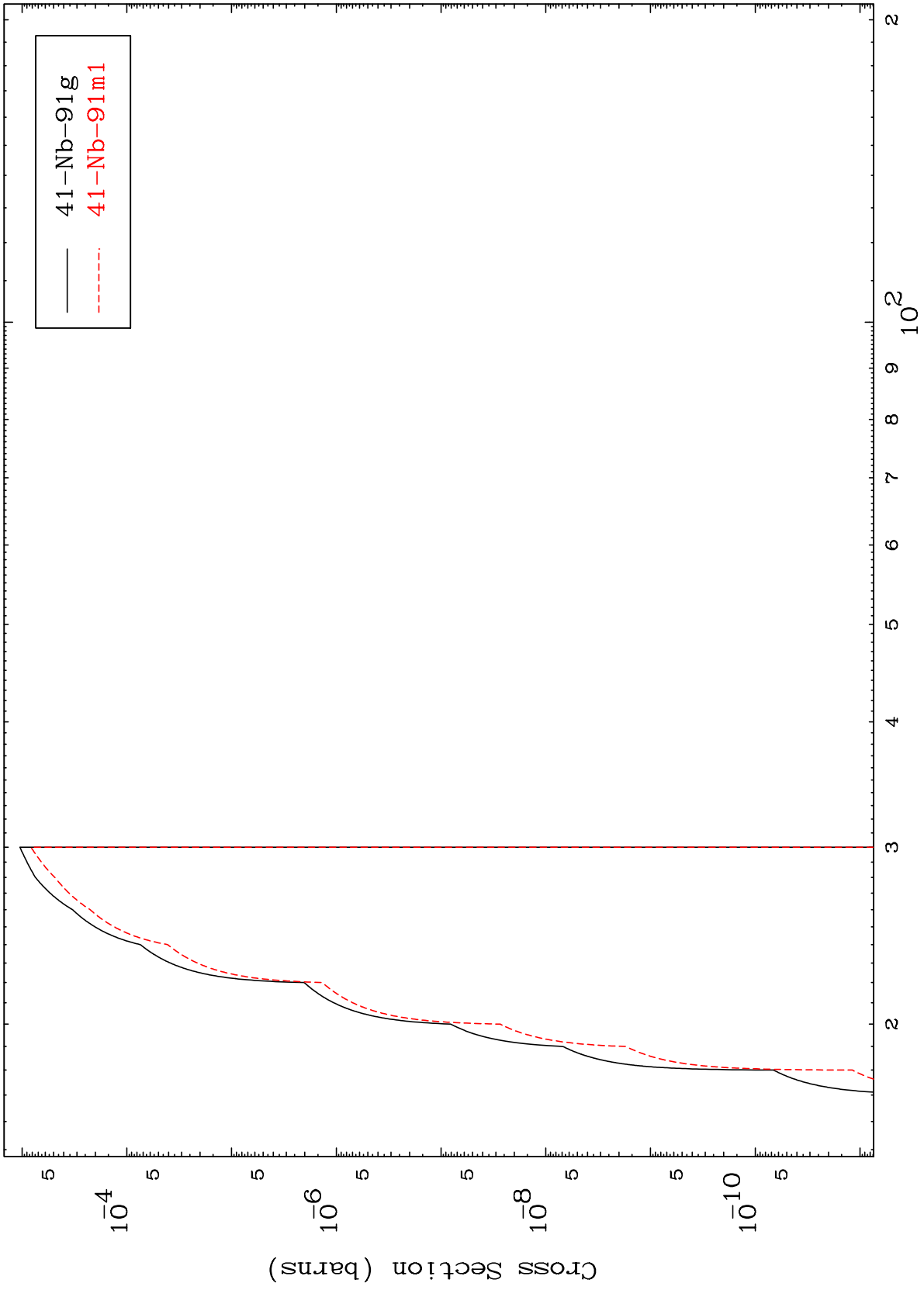
Incident Energy (MeV)

40-Zr-90

MAT 4025

40-Zr-90

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



19

Incident Energy (MeV)

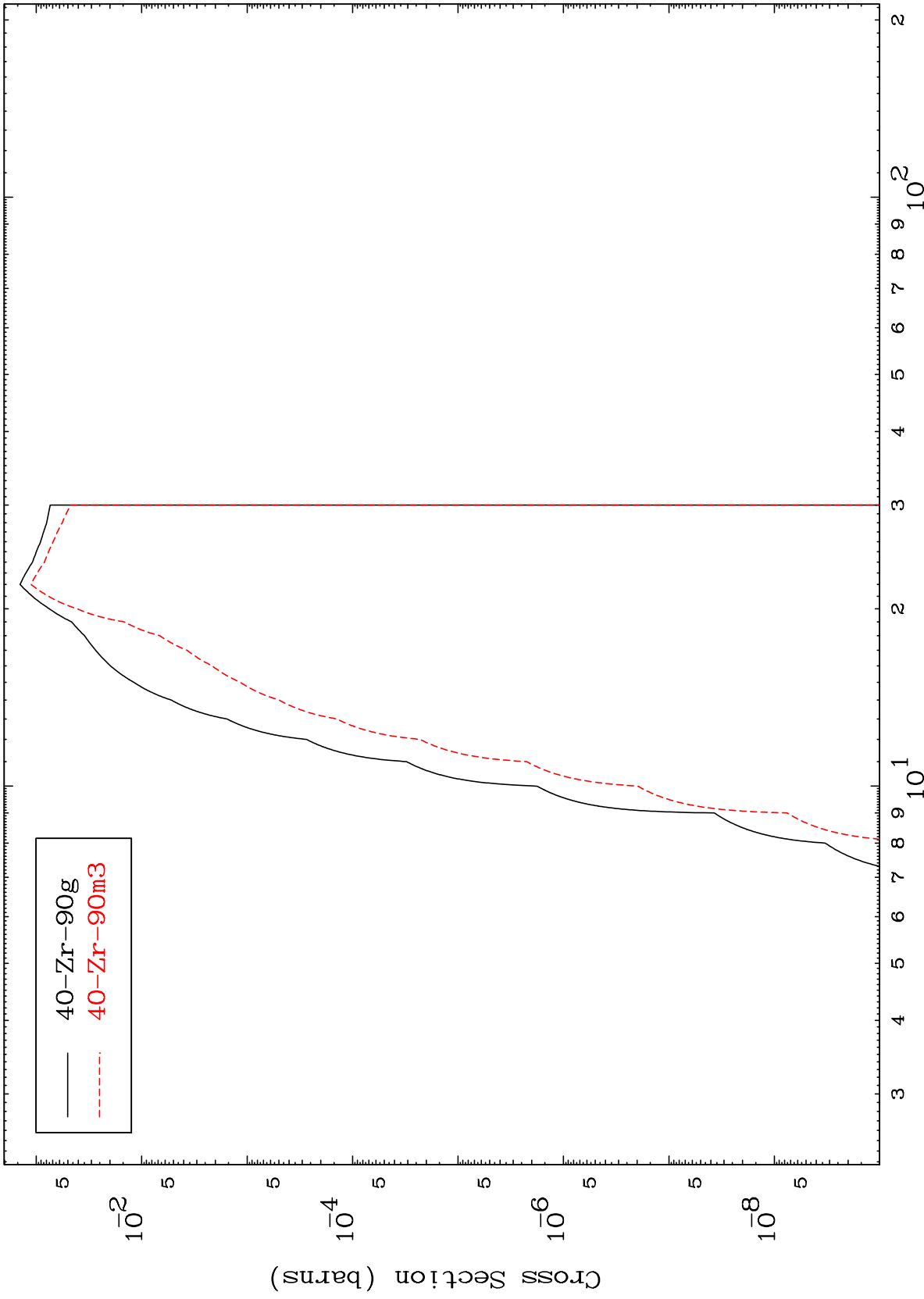
40-Zr-90

MAT 4025

40-Zr-90

Radionuclide Production Cross Section

$(\alpha, \alpha)$



Legend:  
— 40-Zr-90g  
- - - 40-Zr-90m3

20

Incident Energy (MeV)

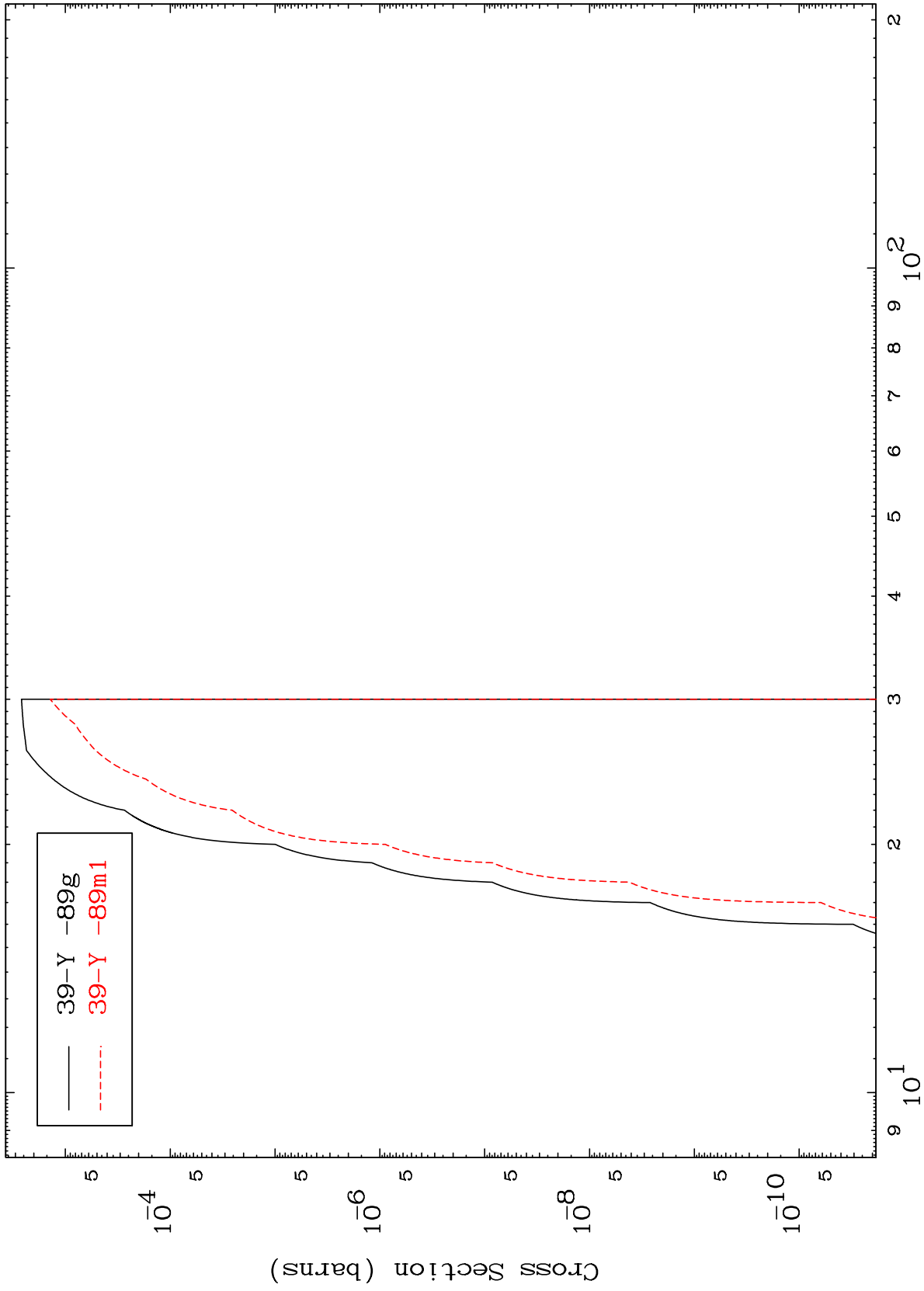
40-Zr-90

MAT 4025

( $\alpha, p$ )  $\alpha$

40-Zr-90

Radionuclide Production Cross Section



21

Incident Energy (MeV)

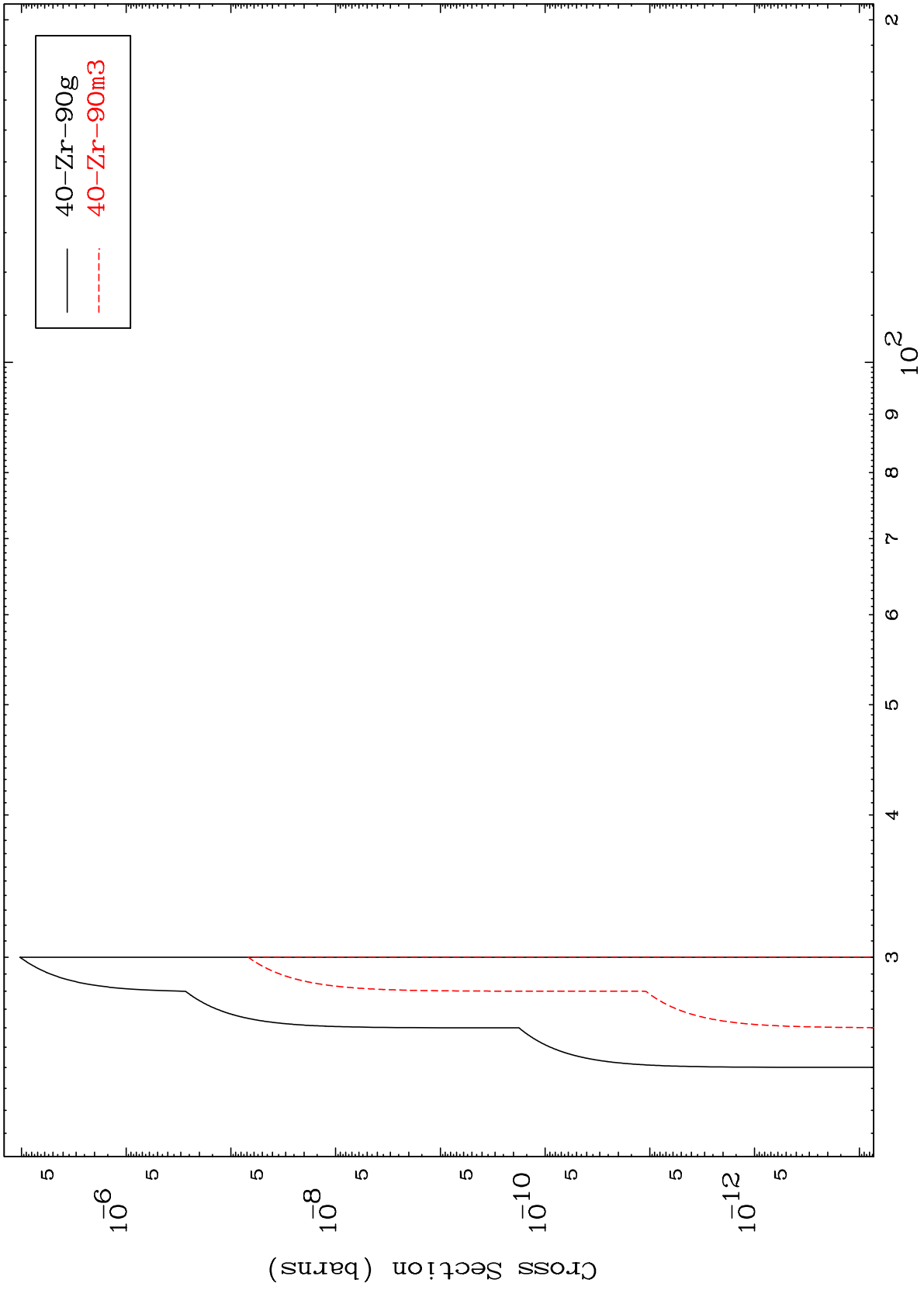
40-Zr-90

MAT 4025

( $\alpha, p$ ) t

40-Zr-90

Radionuclide Production Cross Section



22

Incident Energy (MeV)

40-Zr-90