

Program EVALPLOT  
(Version 2017-1)

by

Dermott E. Cullen  
(Present Contact Information)

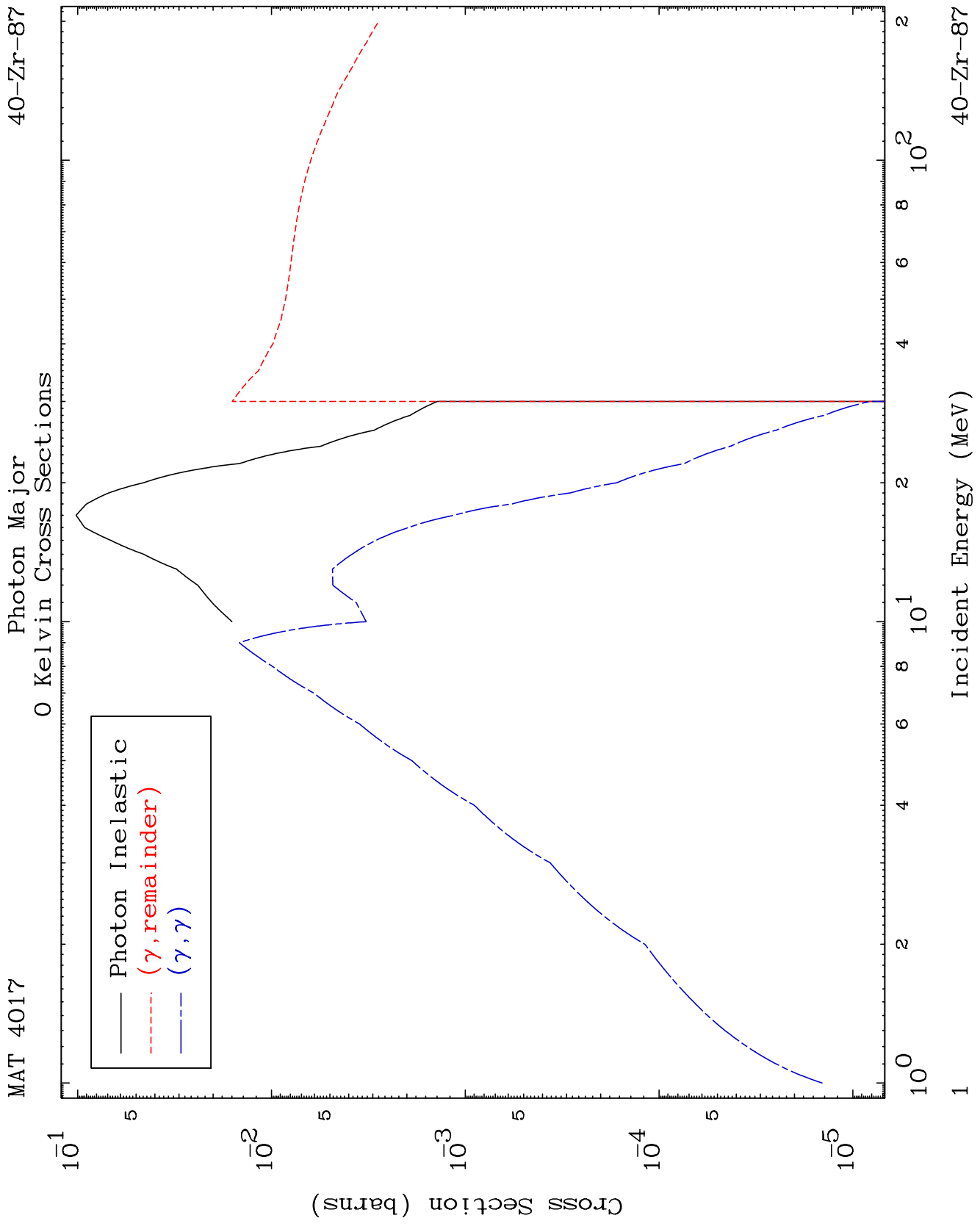
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E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)

Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

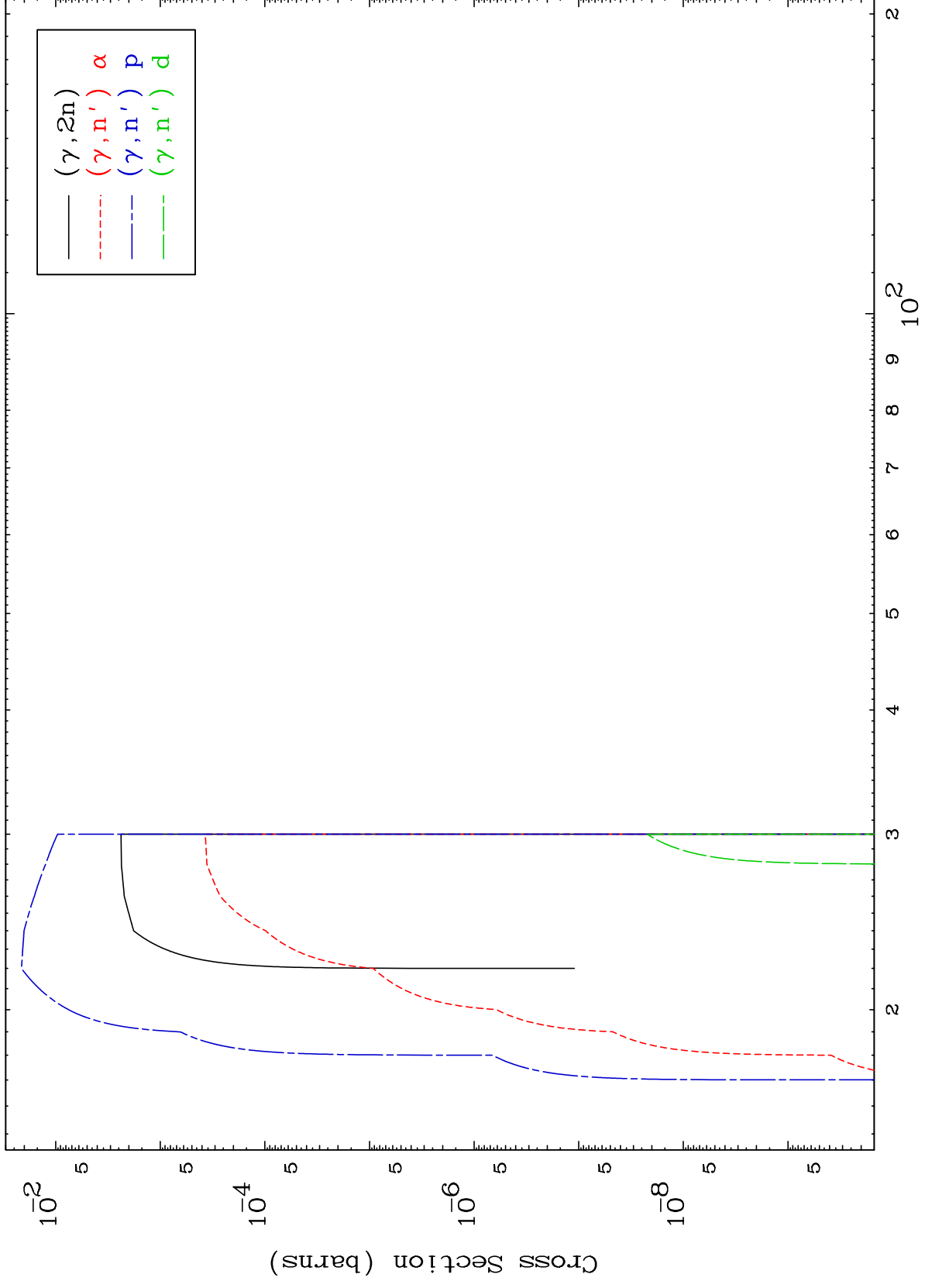
Press Mouse Button to Start



MAT 4017

Photon Neutron Production  
0 Kelvin Cross Sections

40-Zr-87



2

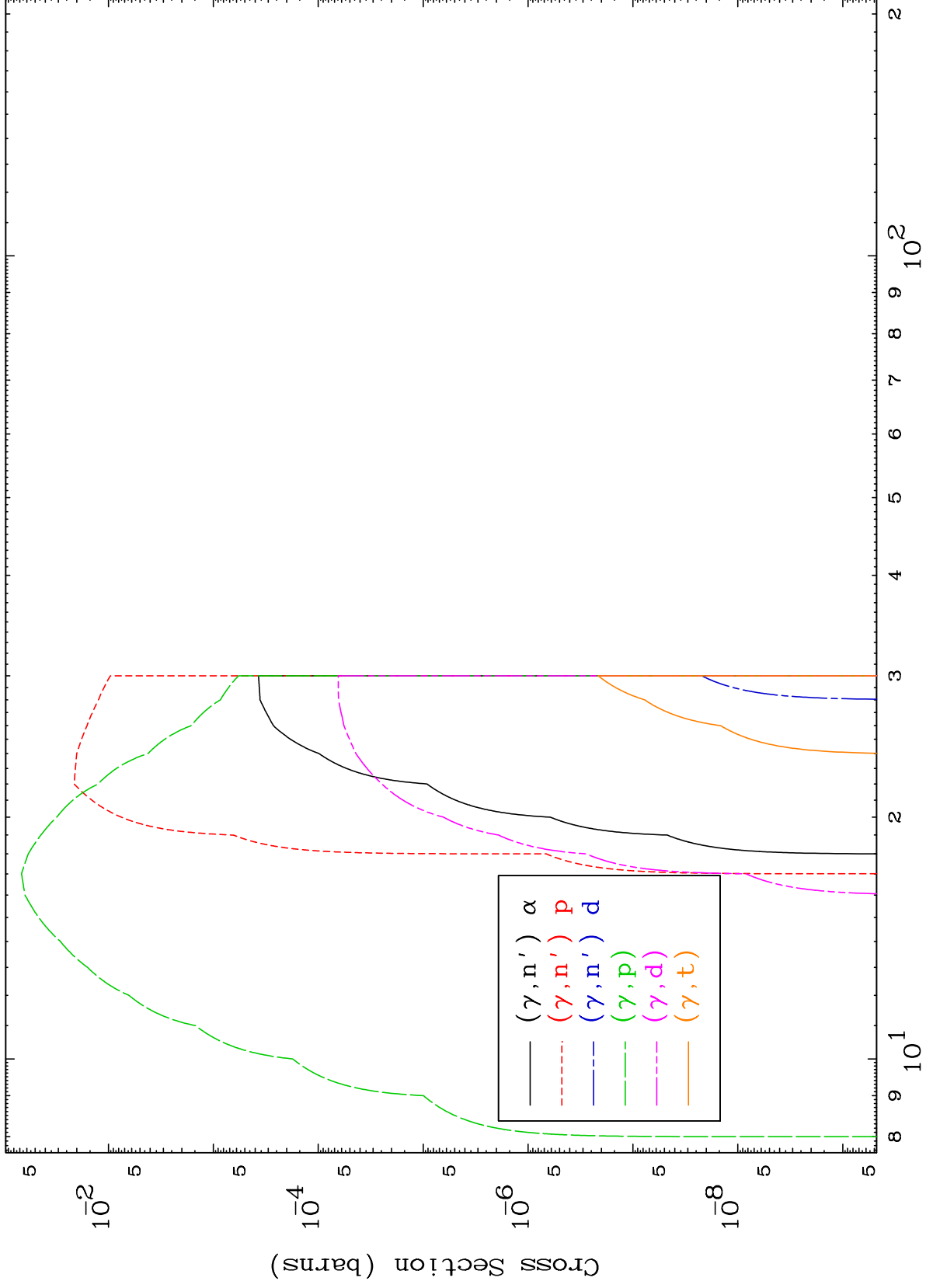
Incident Energy (MeV)

40-Zr-87

MAT 4017

Photon Charged Particle  
0 Kelvin Cross Sections

40-Zr-87



Incident Energy (MeV)

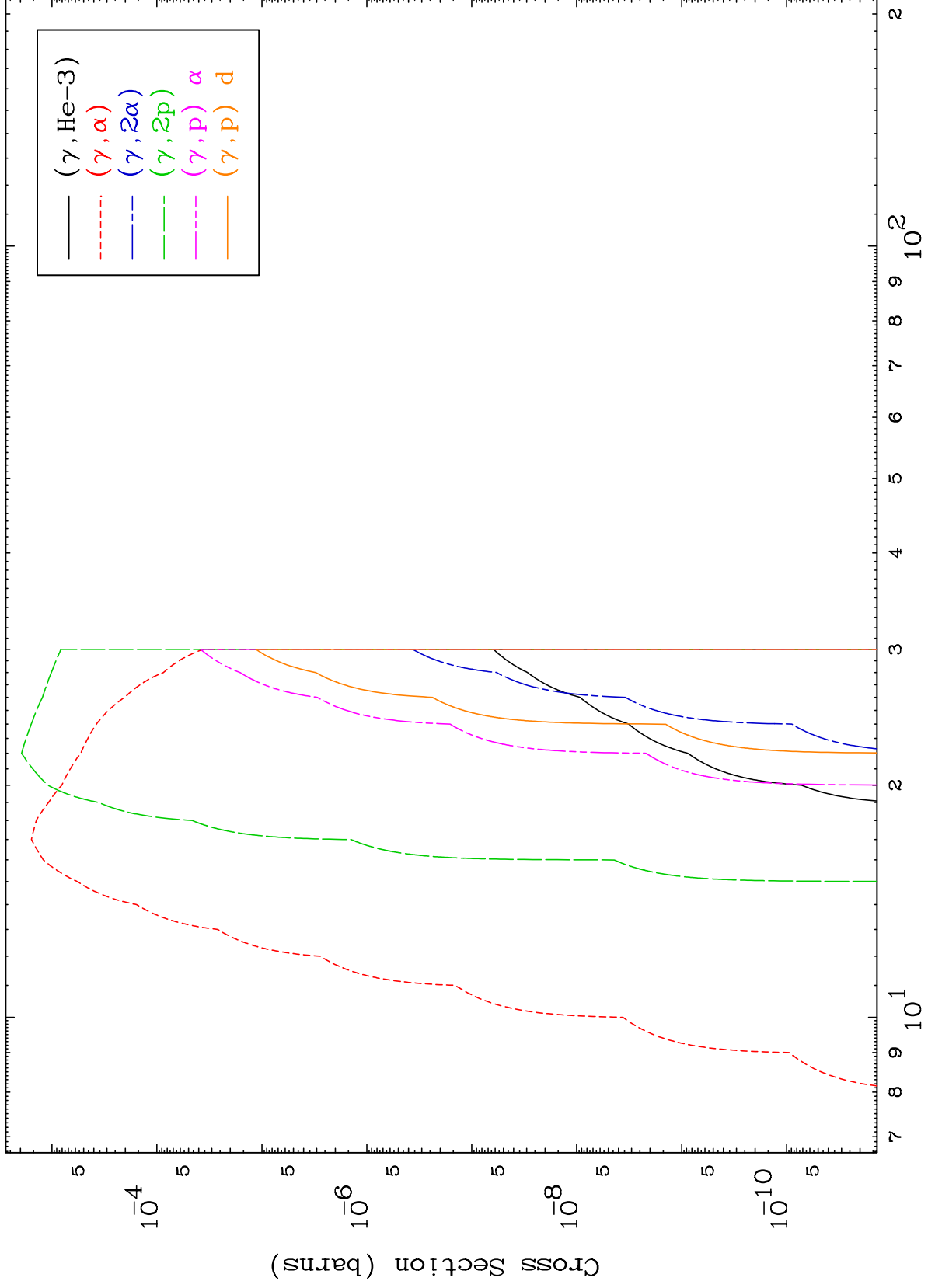
40-Zr-87

3

MAT 4017

Photon Charged Particle  
0 Kelvin Cross Sections

40-Zr-87



4

Incident Energy (MeV)

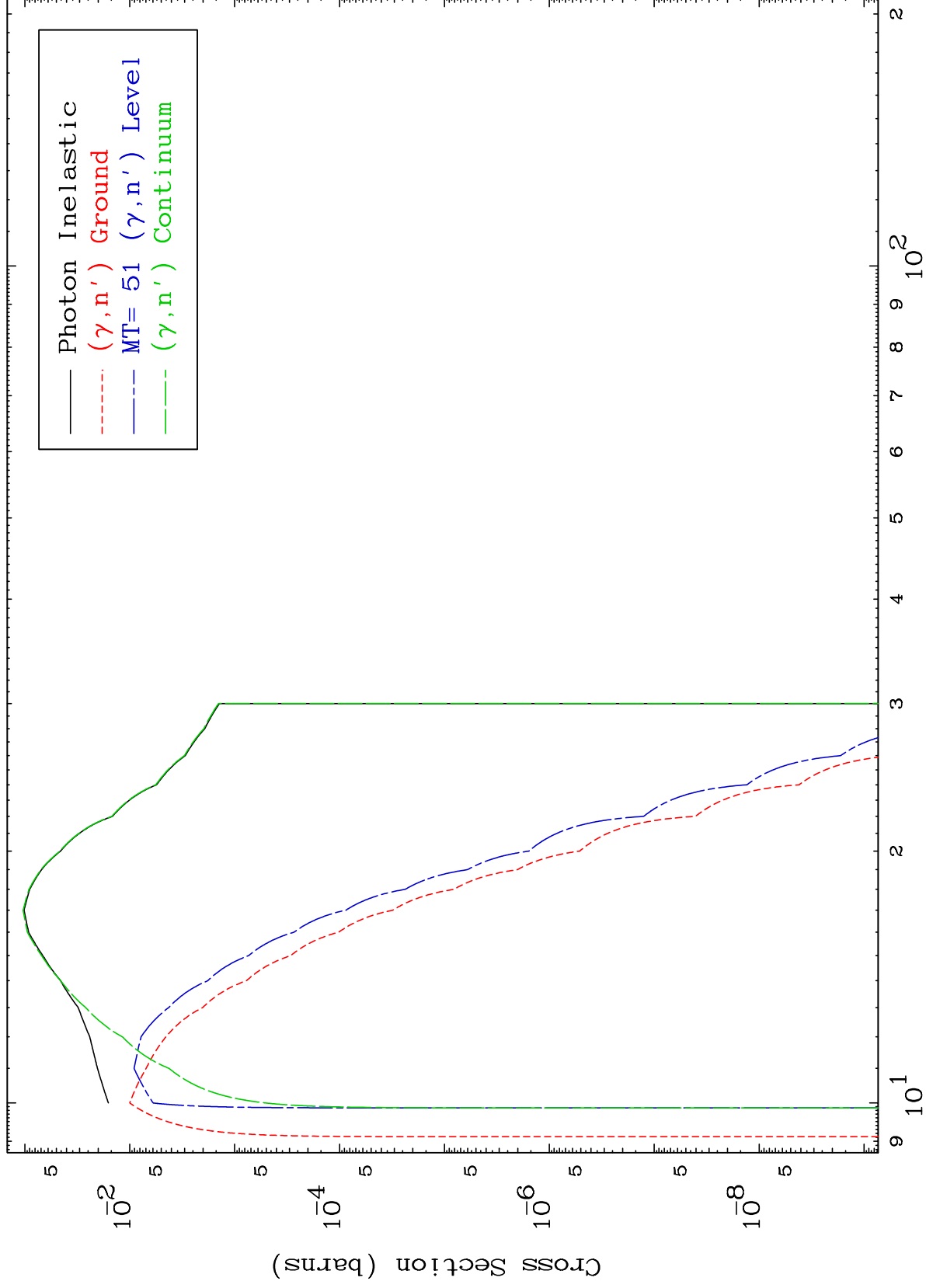
40-Zr-87

MAT 4017

$(\gamma, n')$  Level

40-Zr-87

0 Kelvin Cross Sections



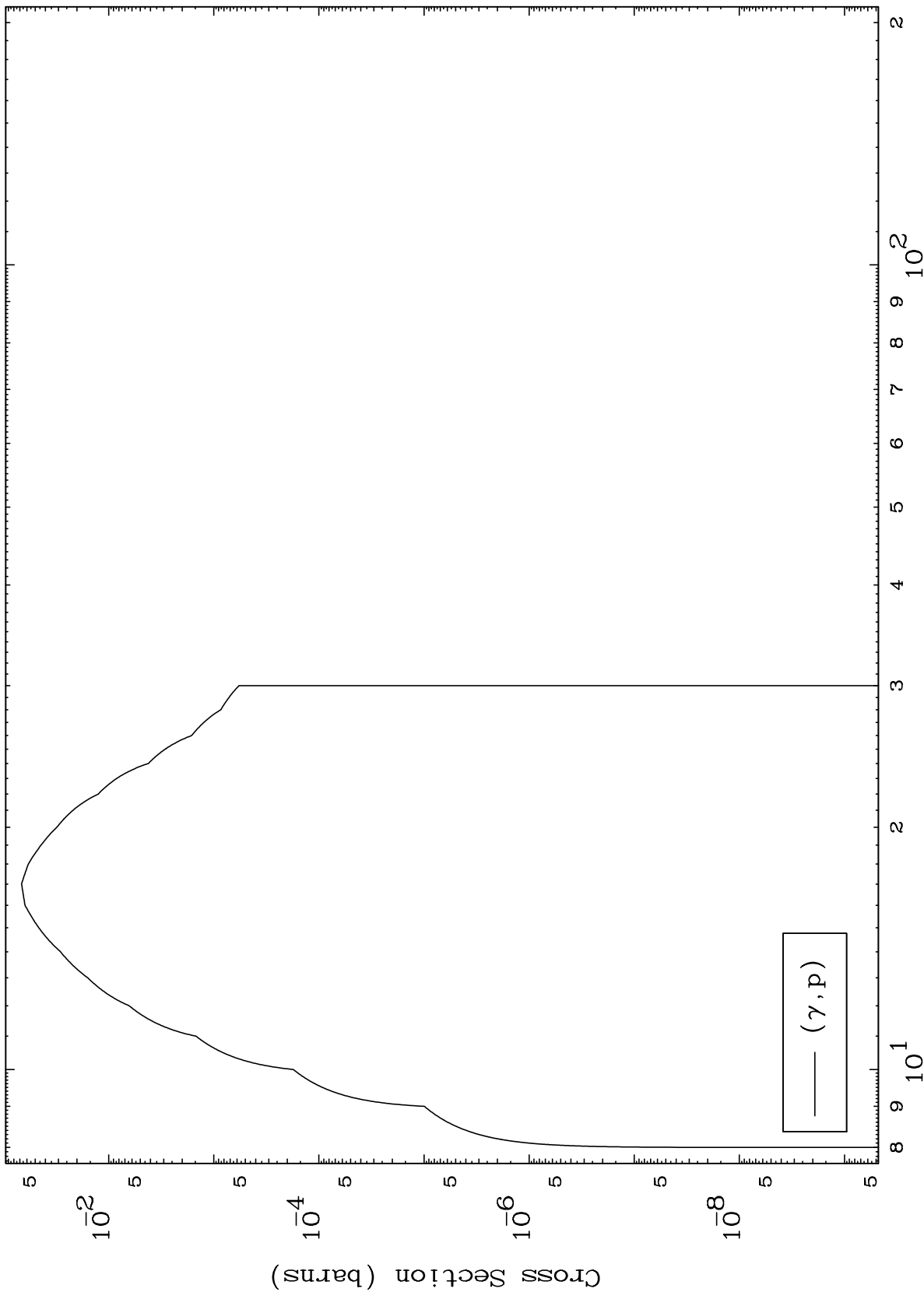
Incident Energy (MeV)

40-Zr-87

MAT 4017

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

40-Zr-87



6

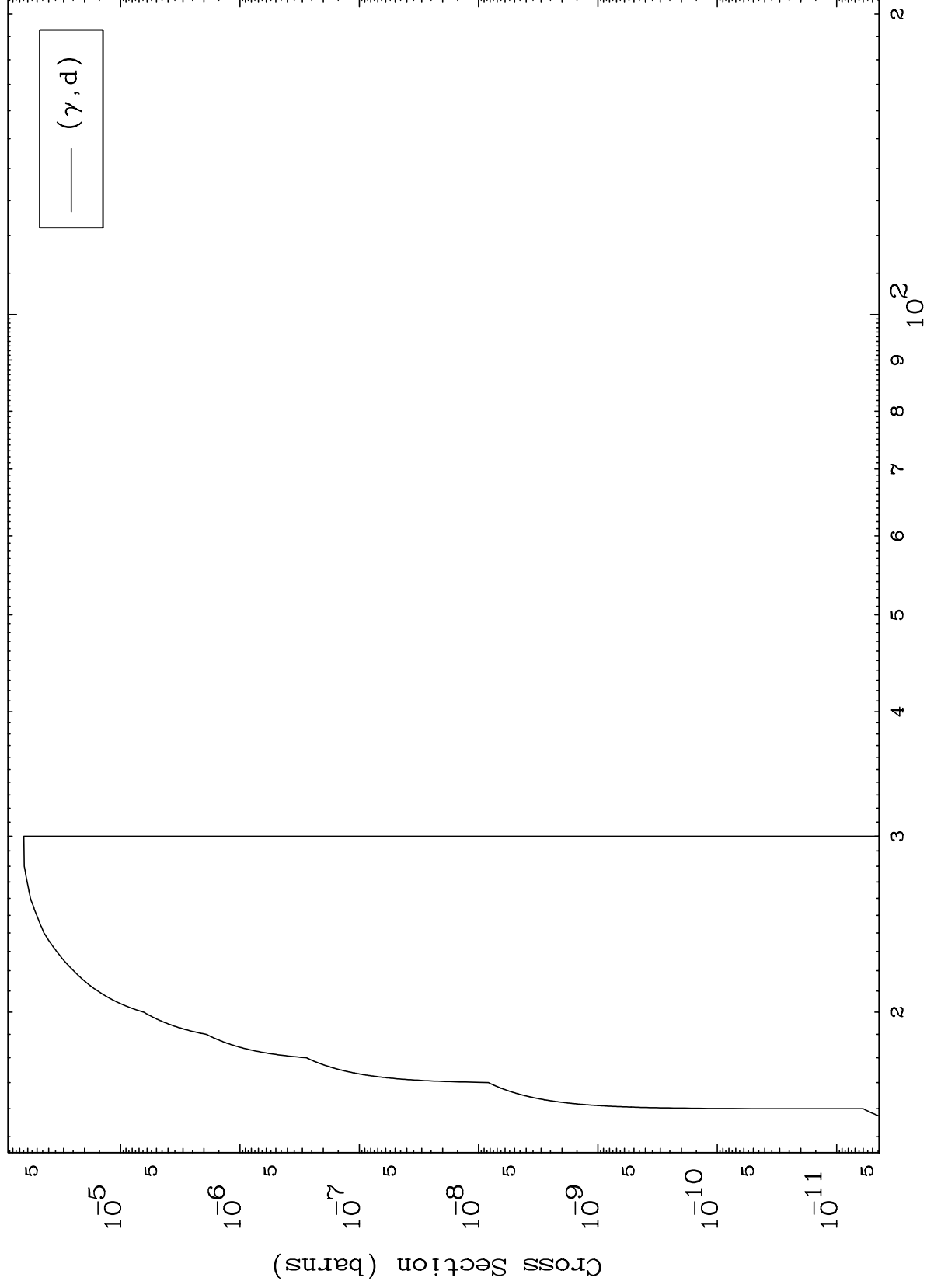
Incident Energy (MeV)

40-Zr-87

MAT 4017

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

40-Zr-87



7

Incident Energy (MeV)

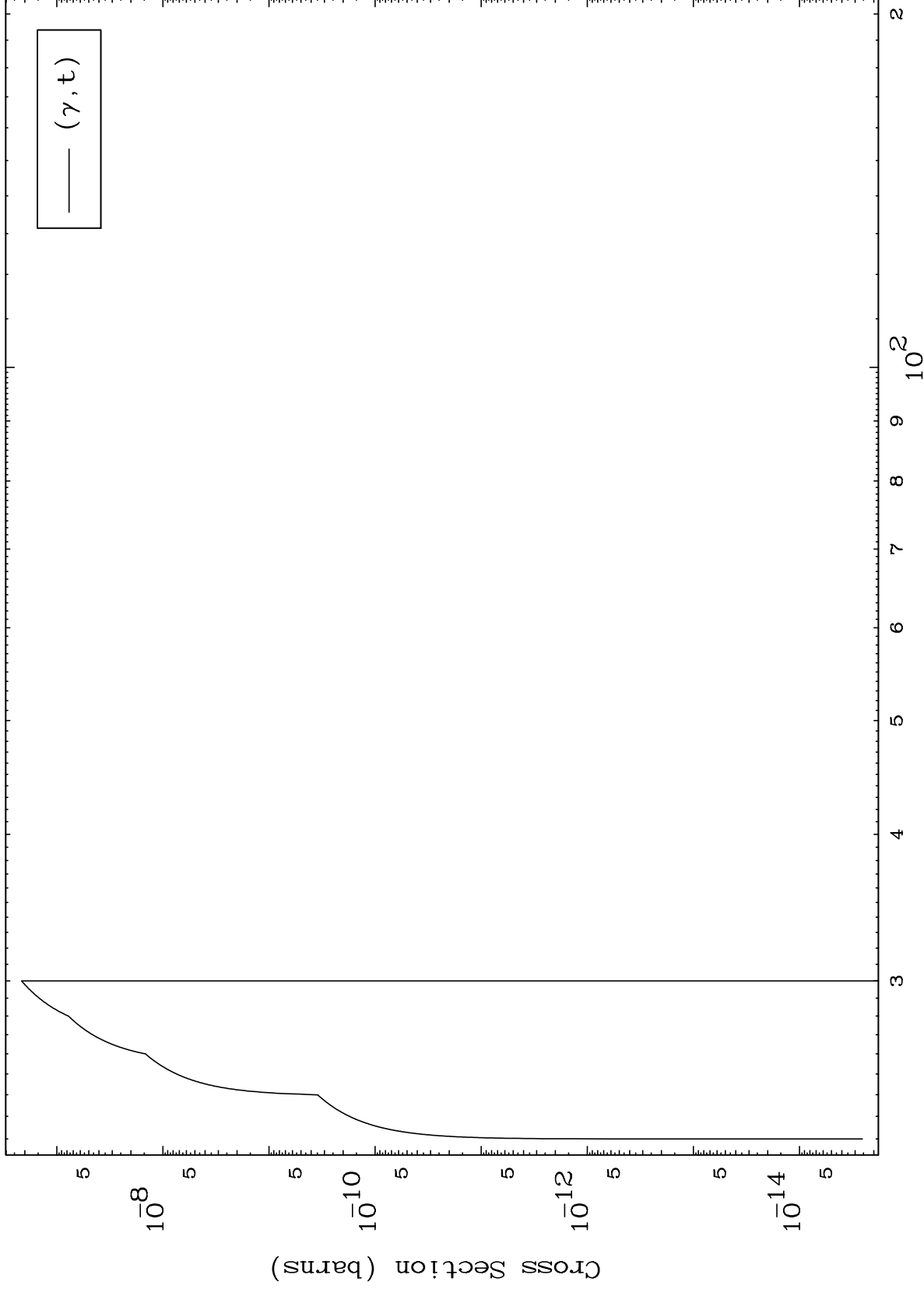
40-Zr-87



MAT 4017

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

40-Zr-87



8

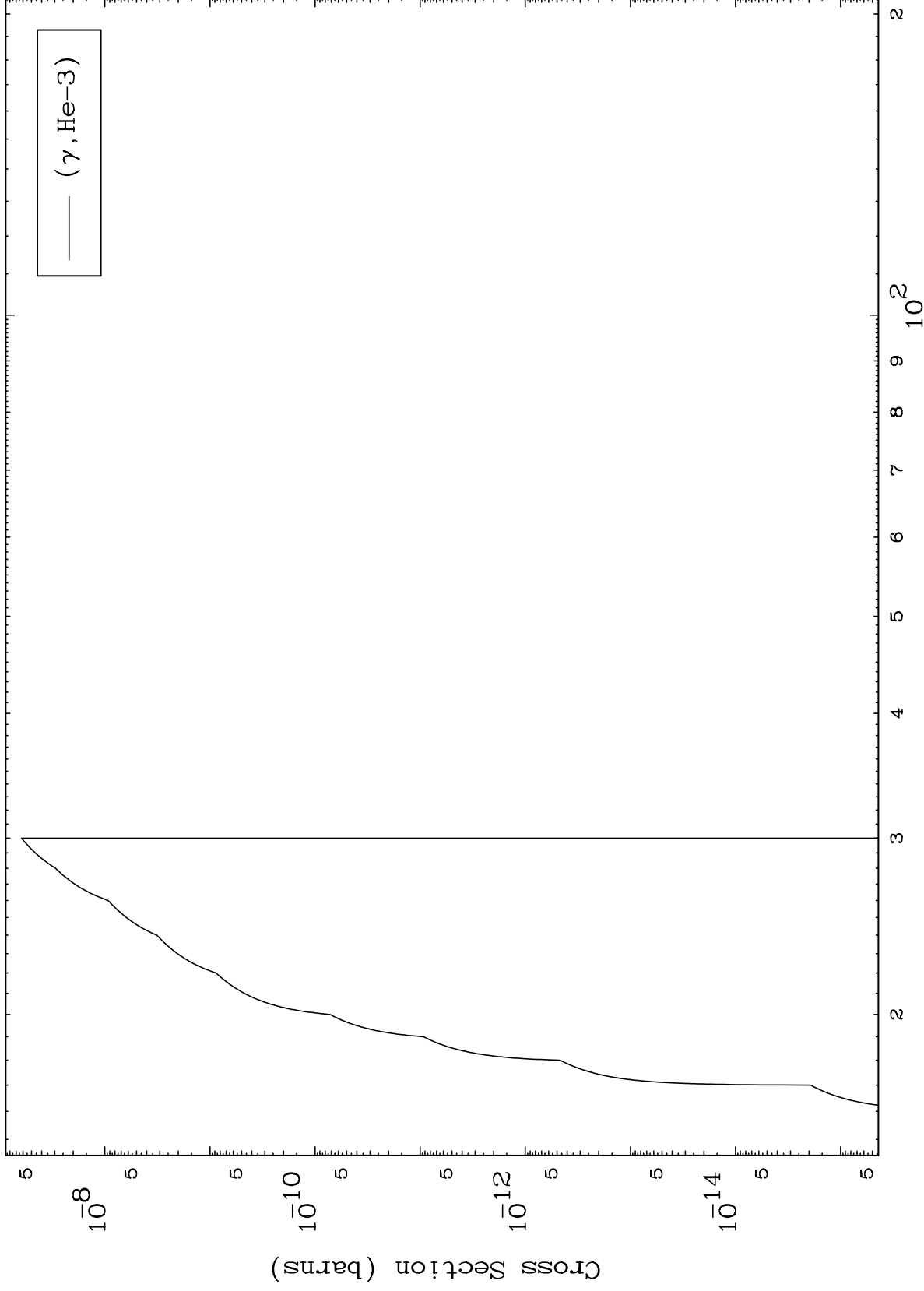
Incident Energy (MeV)

40-Zr-87

MAT 4017

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

40-Zr-87



9

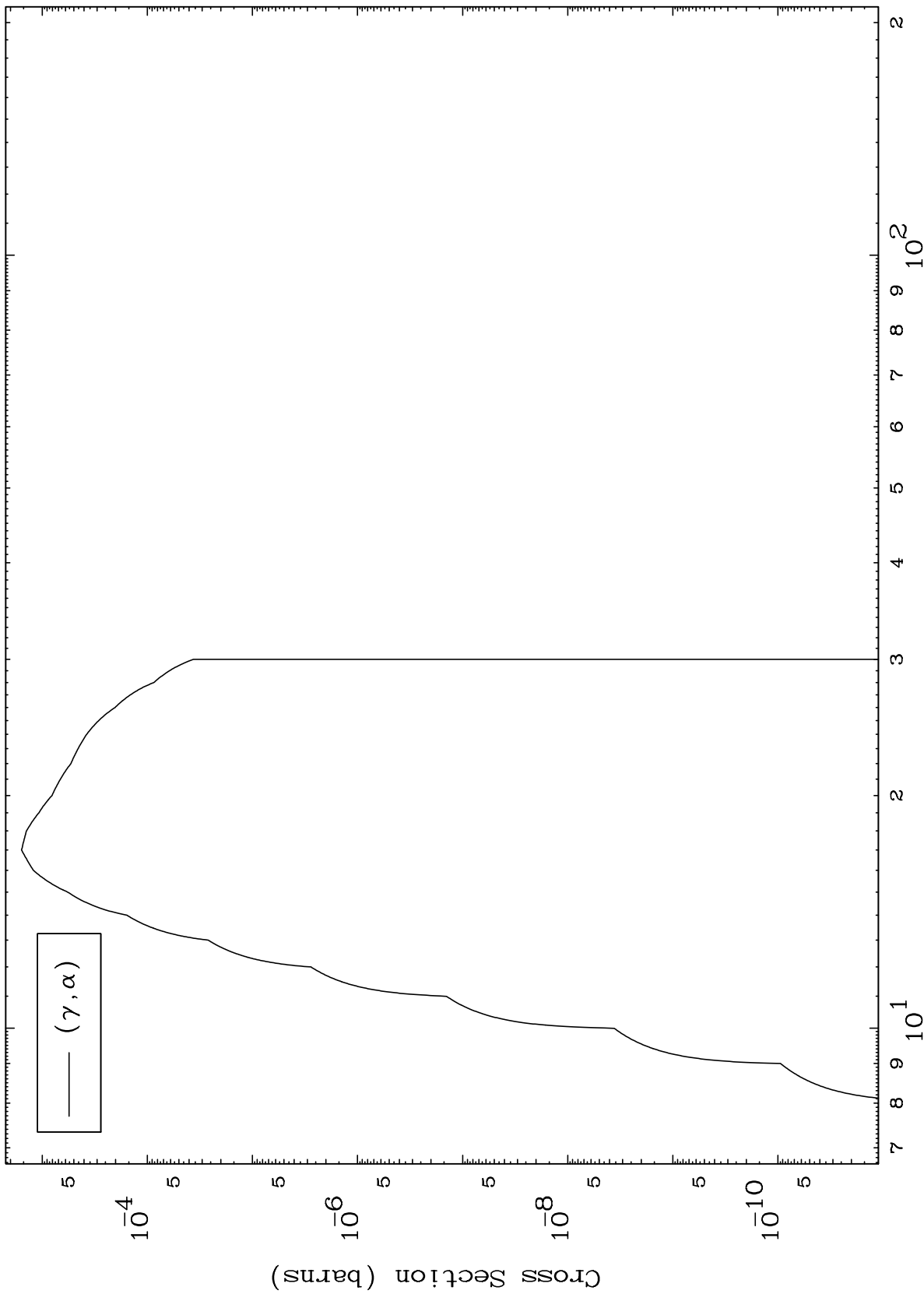
Incident Energy (MeV)

40-Zr-87

MAT 4017

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

40-Zr-87



10

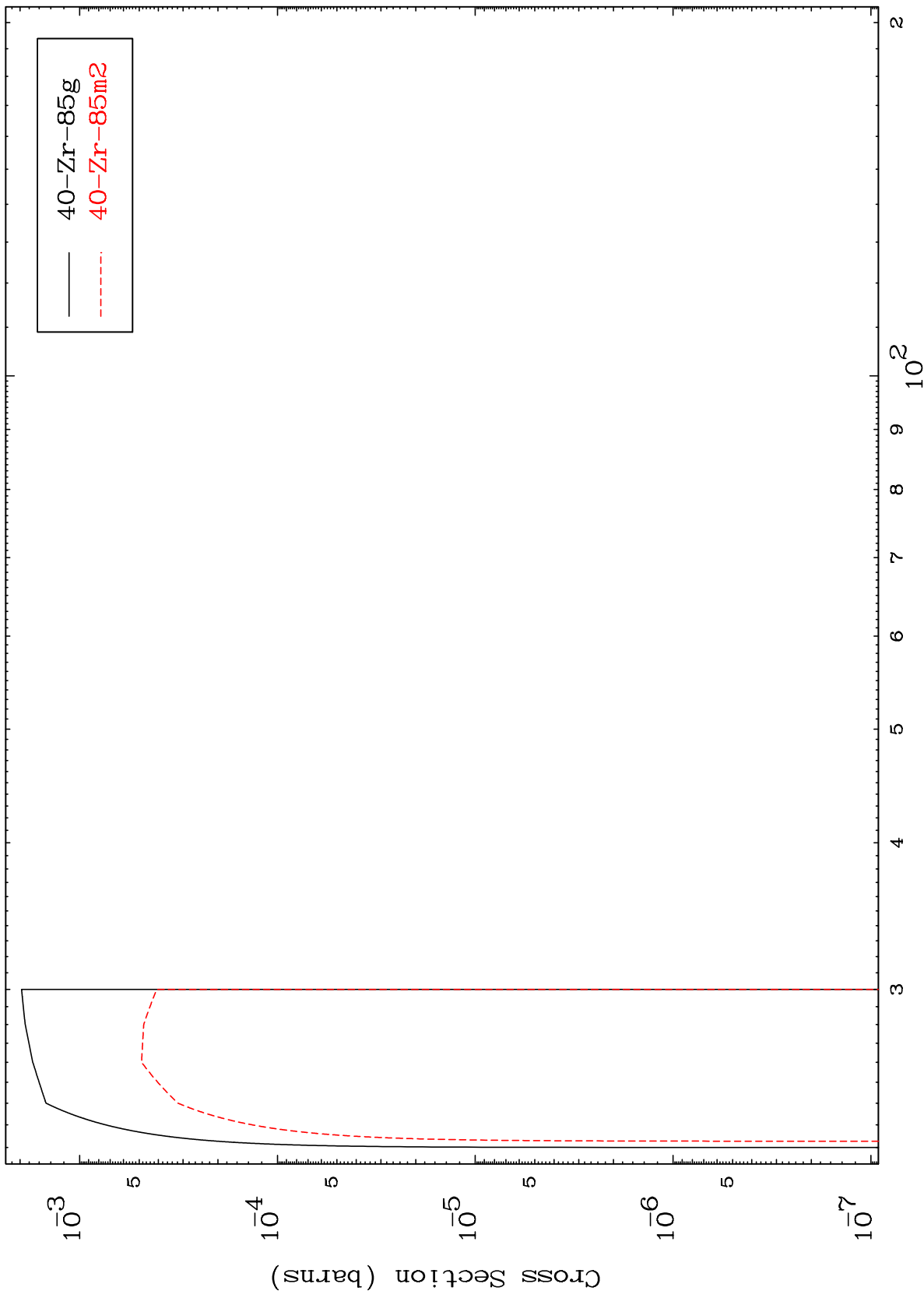
Incident Energy (MeV)

40-Zr-87

MAT 4017

40-Zr-87

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



11

Incident Energy (MeV)

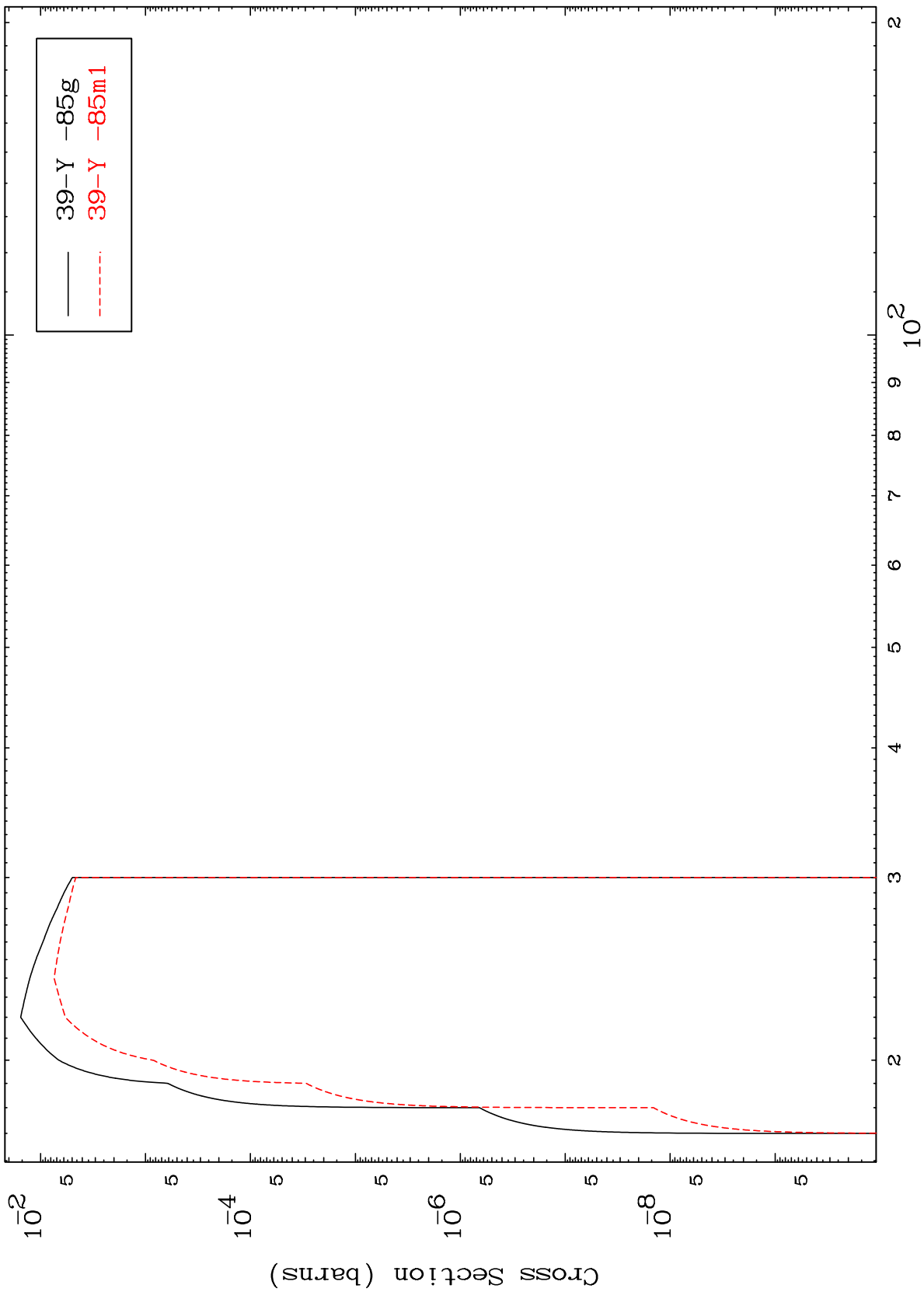
40-Zr-87

MAT 4017

$(\gamma, n')$  p

40-Zr-87

Radionuclide Production Cross Section



12

Incident Energy (MeV)

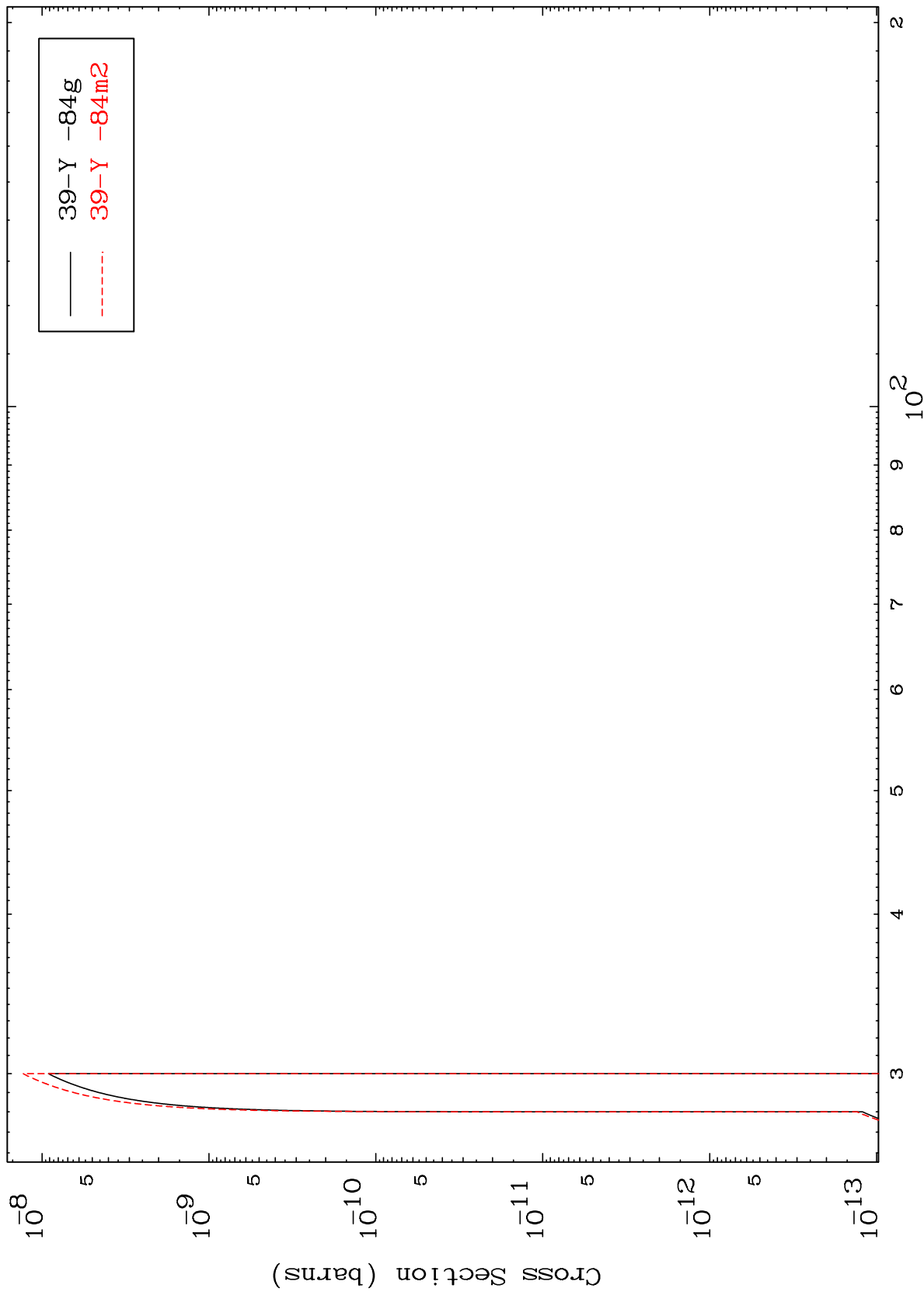
40-Zr-87

MAT 4017

( $\gamma, n'$ ) d

40-Zr-87

Radionuclide Production Cross Section



13

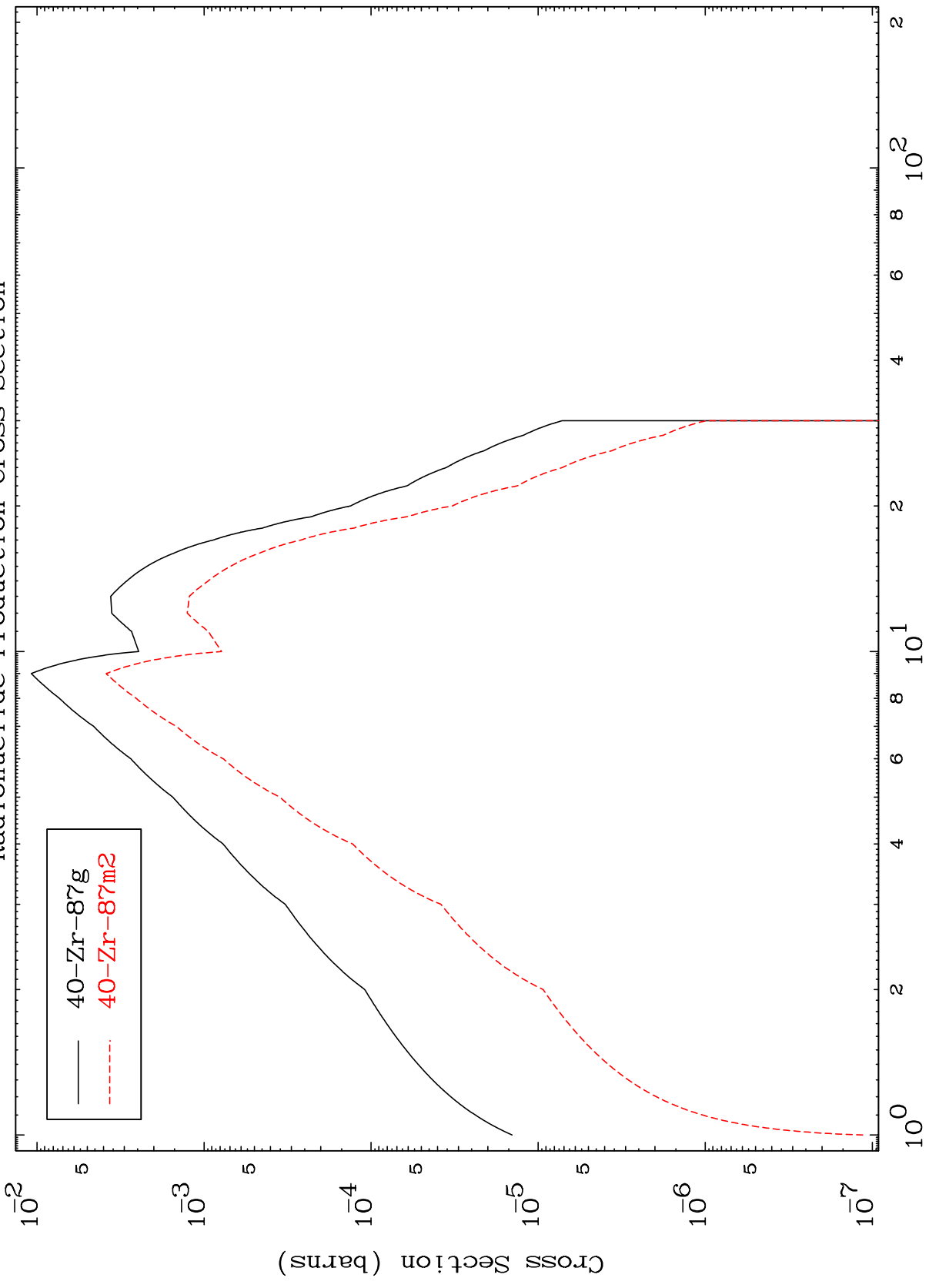
Incident Energy (MeV)

40-Zr-87

MAT 4017

40-Zr-87

Radionuclide Production Cross Section



— 40-Zr-87g  
- - - 40-Zr-87m2

40-Zr-87

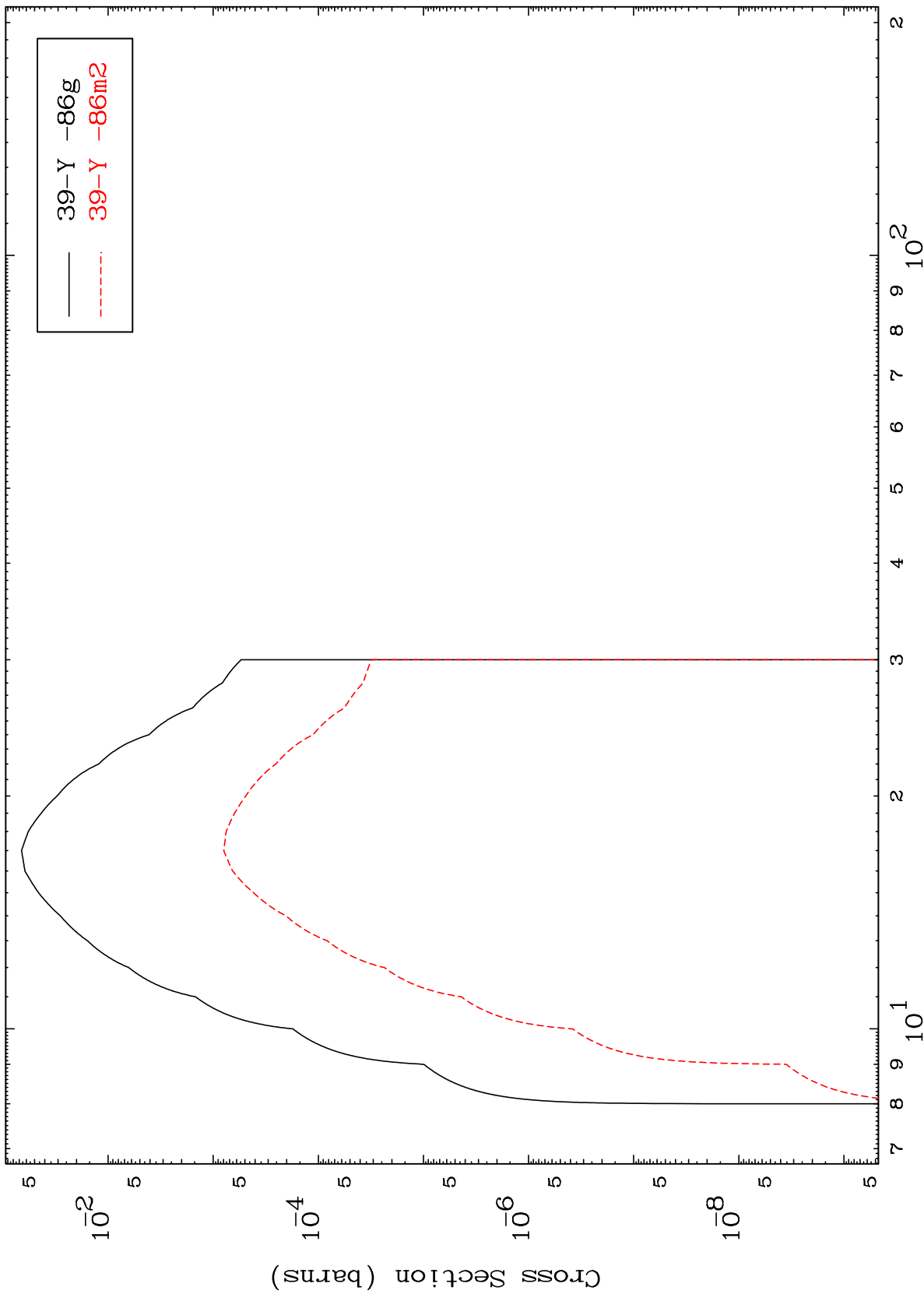
Incident Energy (MeV)

14

MAT 4017

40-Zr-87

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



15

Incident Energy (MeV)

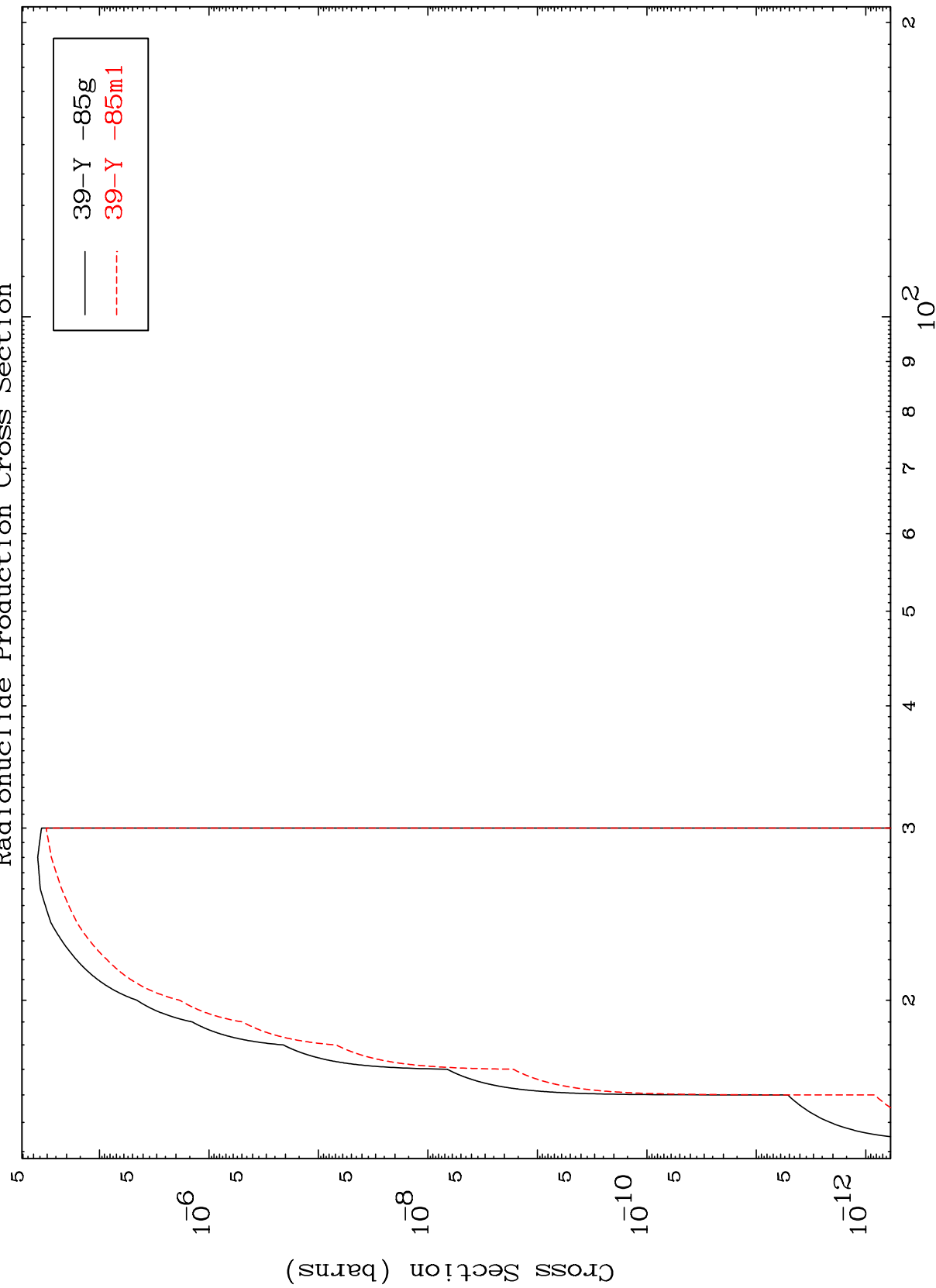
40-Zr-87



MAT 4017

40-Zr-87

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



39-Y -85g  
39-Y -85m1

16

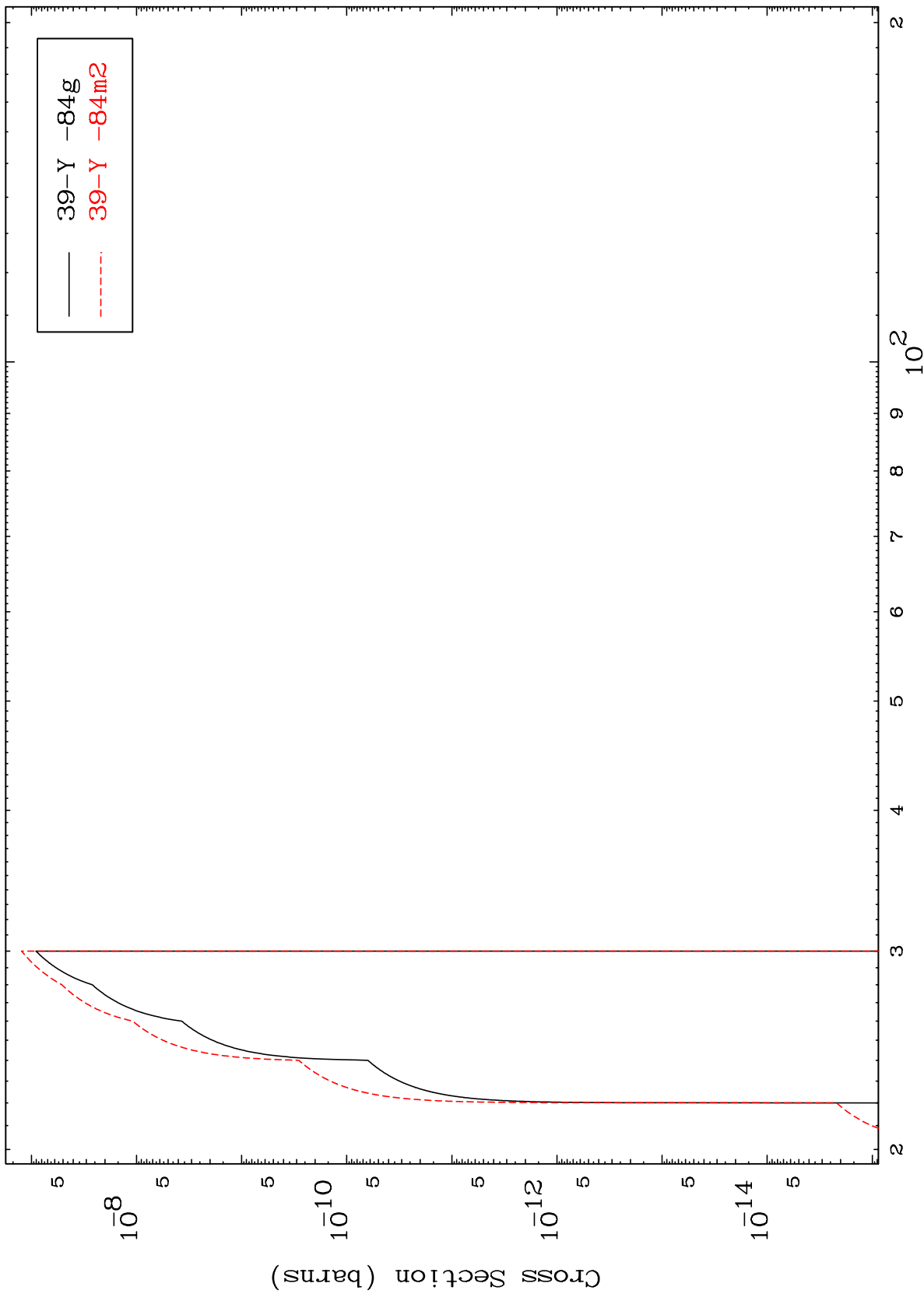
Incident Energy (MeV)

40-Zr-87

MAT 4017

40-Zr-87

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



40-Zr-87

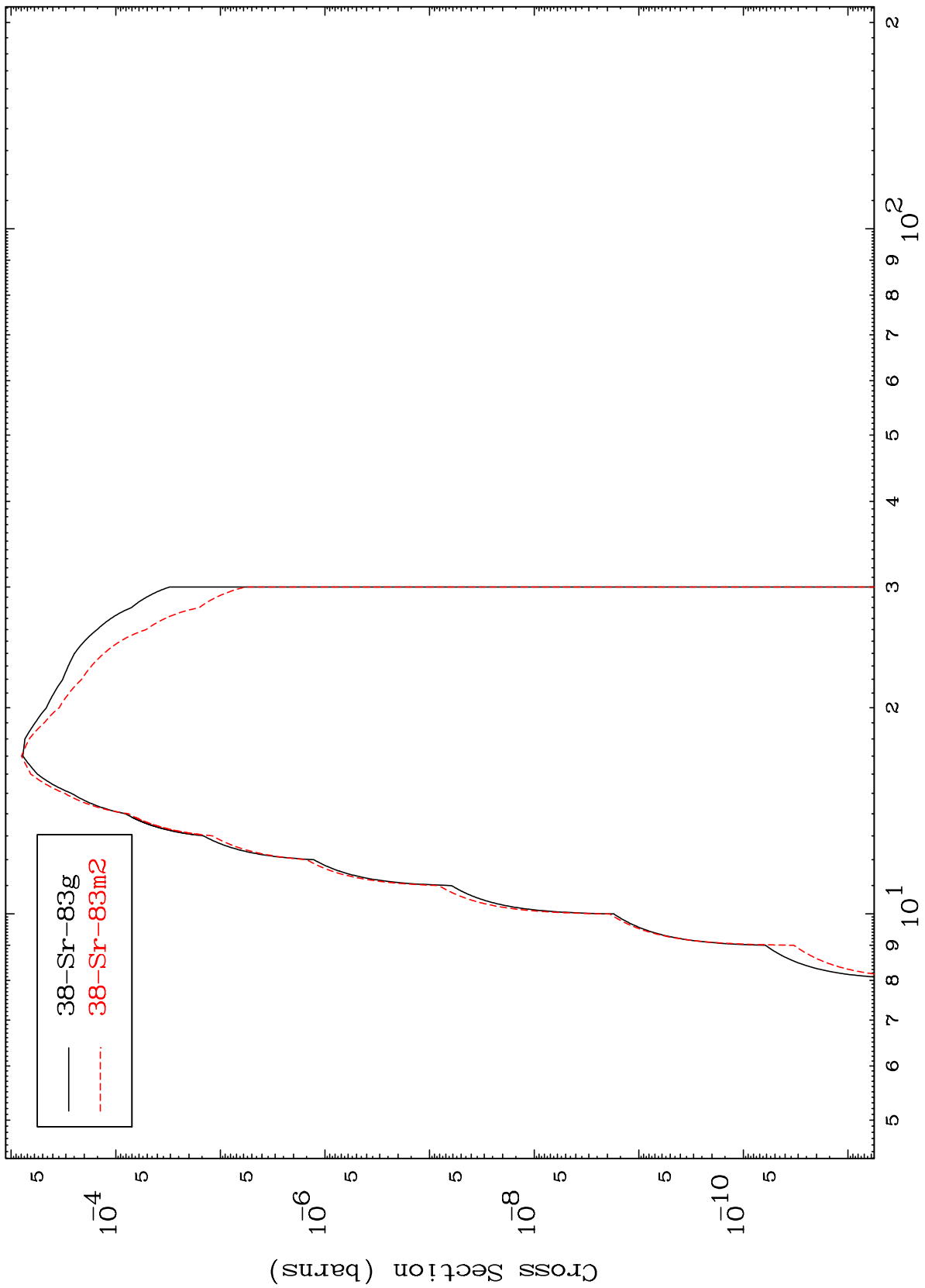
Incident Energy (MeV)

17

MAT 4017

40-Zr-87

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



18

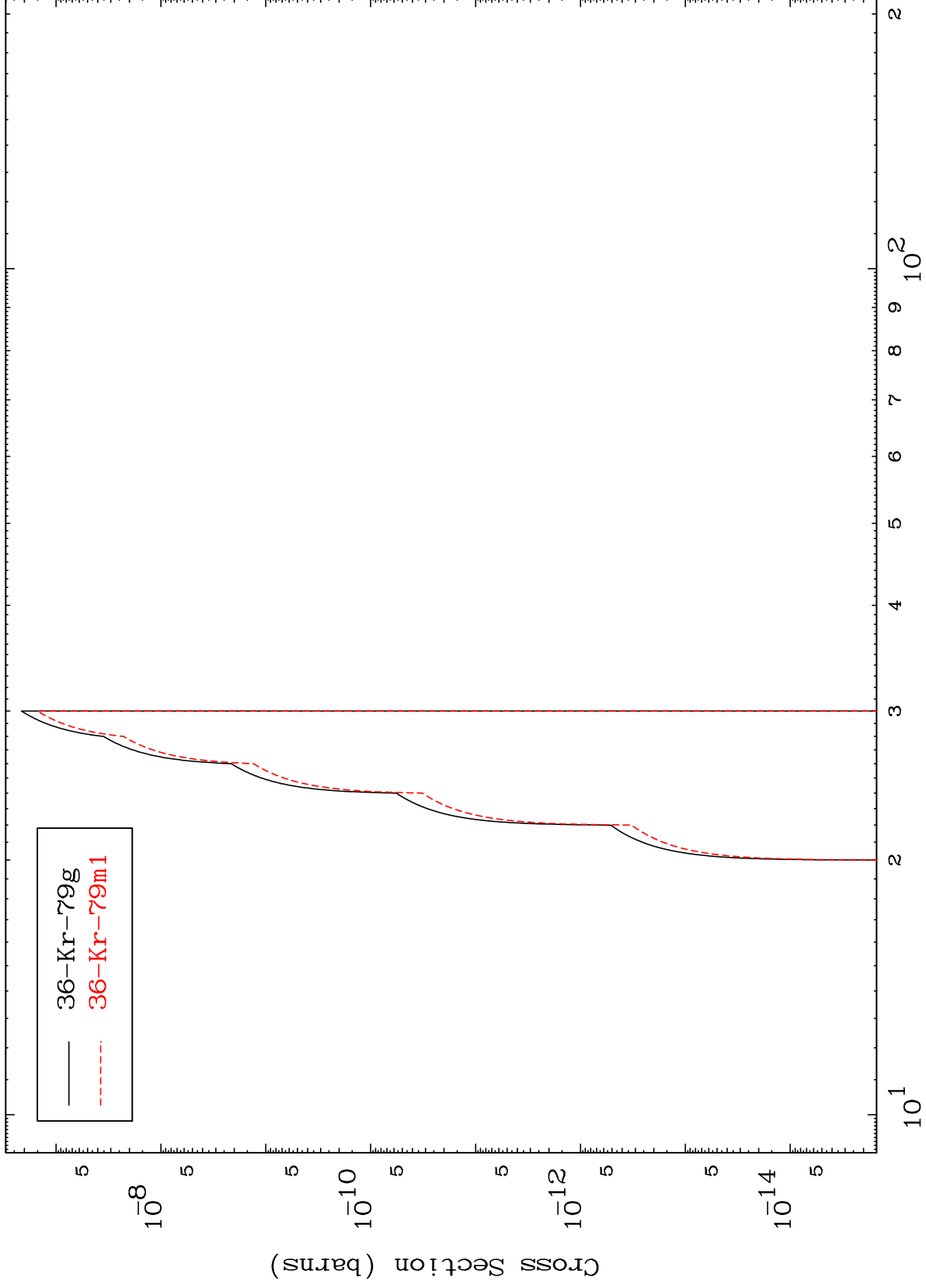
Incident Energy (MeV)

40-Zr-87

MAT 4017

40-Zr-87

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



19

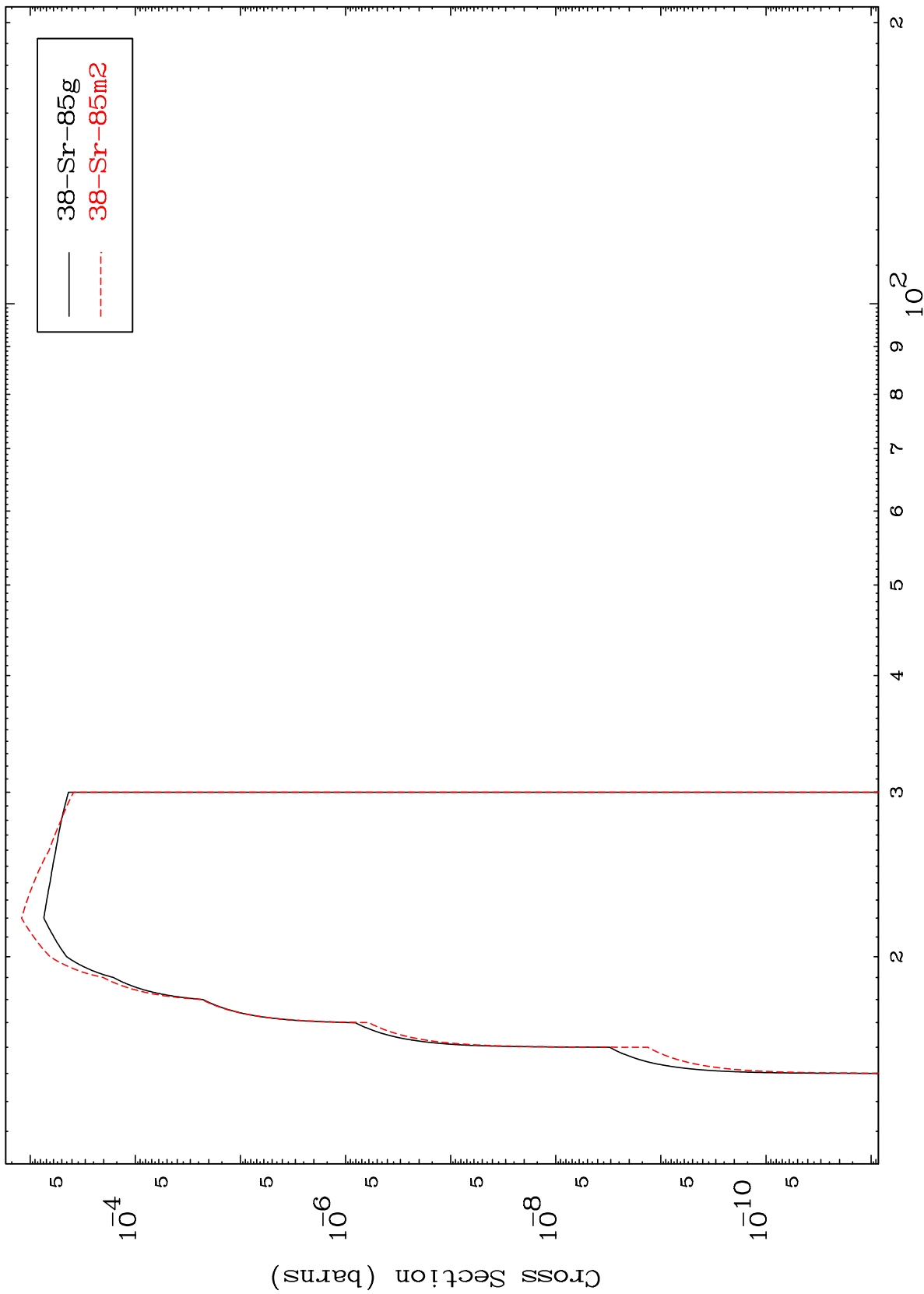
Incident Energy (MeV)

40-Zr-87

MAT 4017

40-Zr-87

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



20

Incident Energy (MeV)

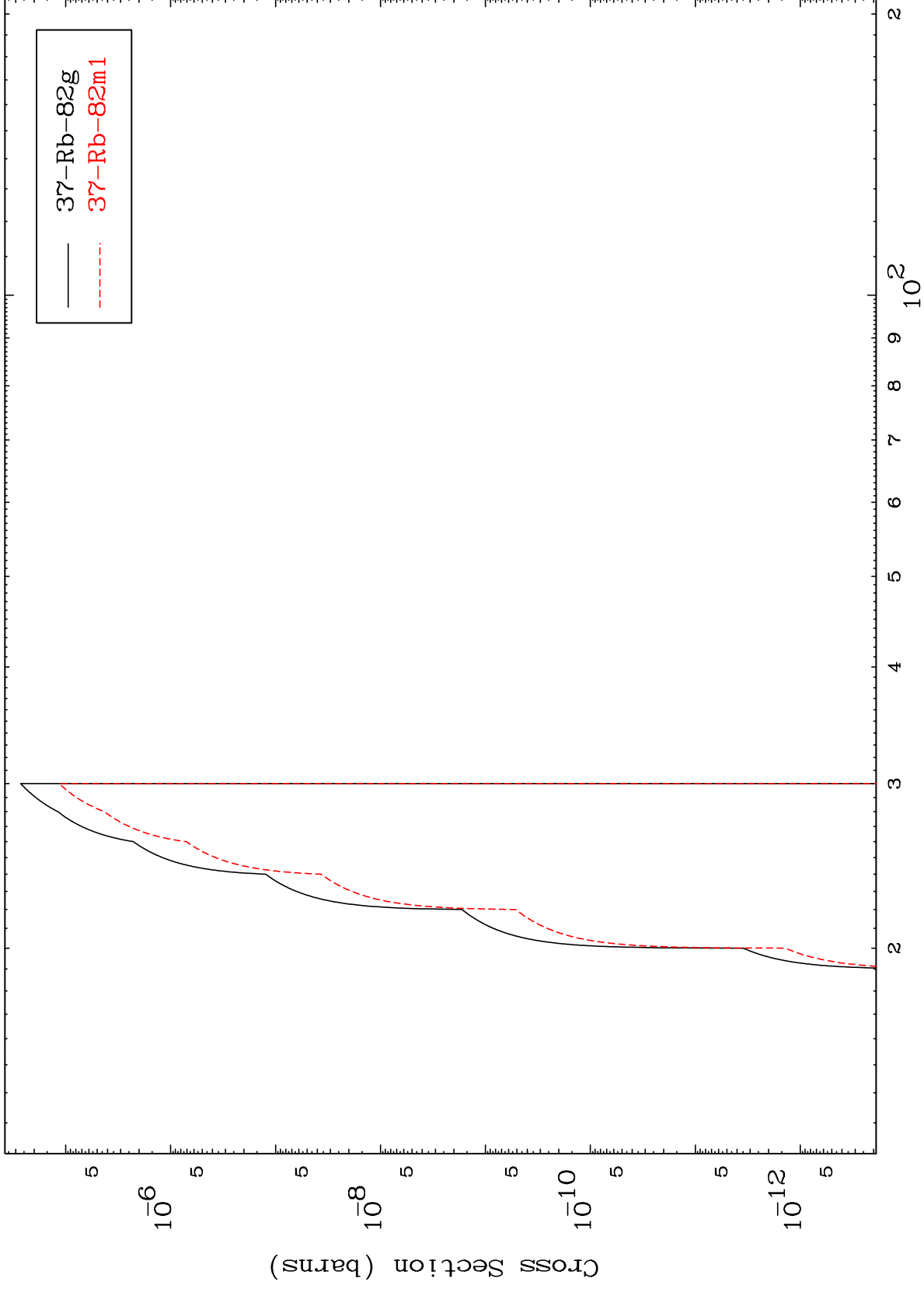
40-Zr-87

MAT 4017

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

40-Zr-87

Radionuclide Production Cross Section



21

Incident Energy (MeV)

40-Zr-87