

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](mailto:redcullen1@comcast.net)

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

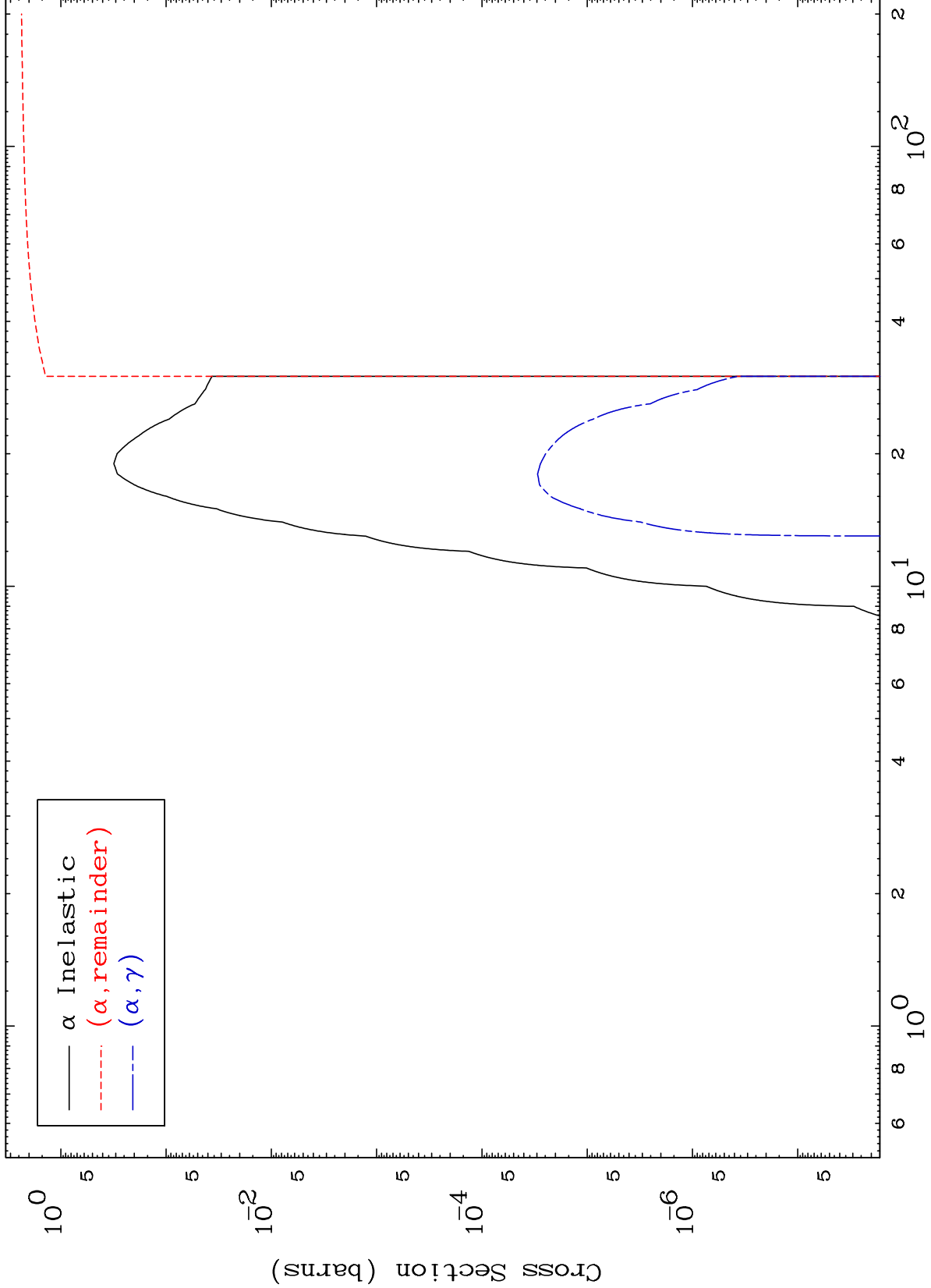
Press Mouse Button to Start

MAT 5834

$\alpha$  Major

58-Ce-139

0 Kelvin Cross Sections

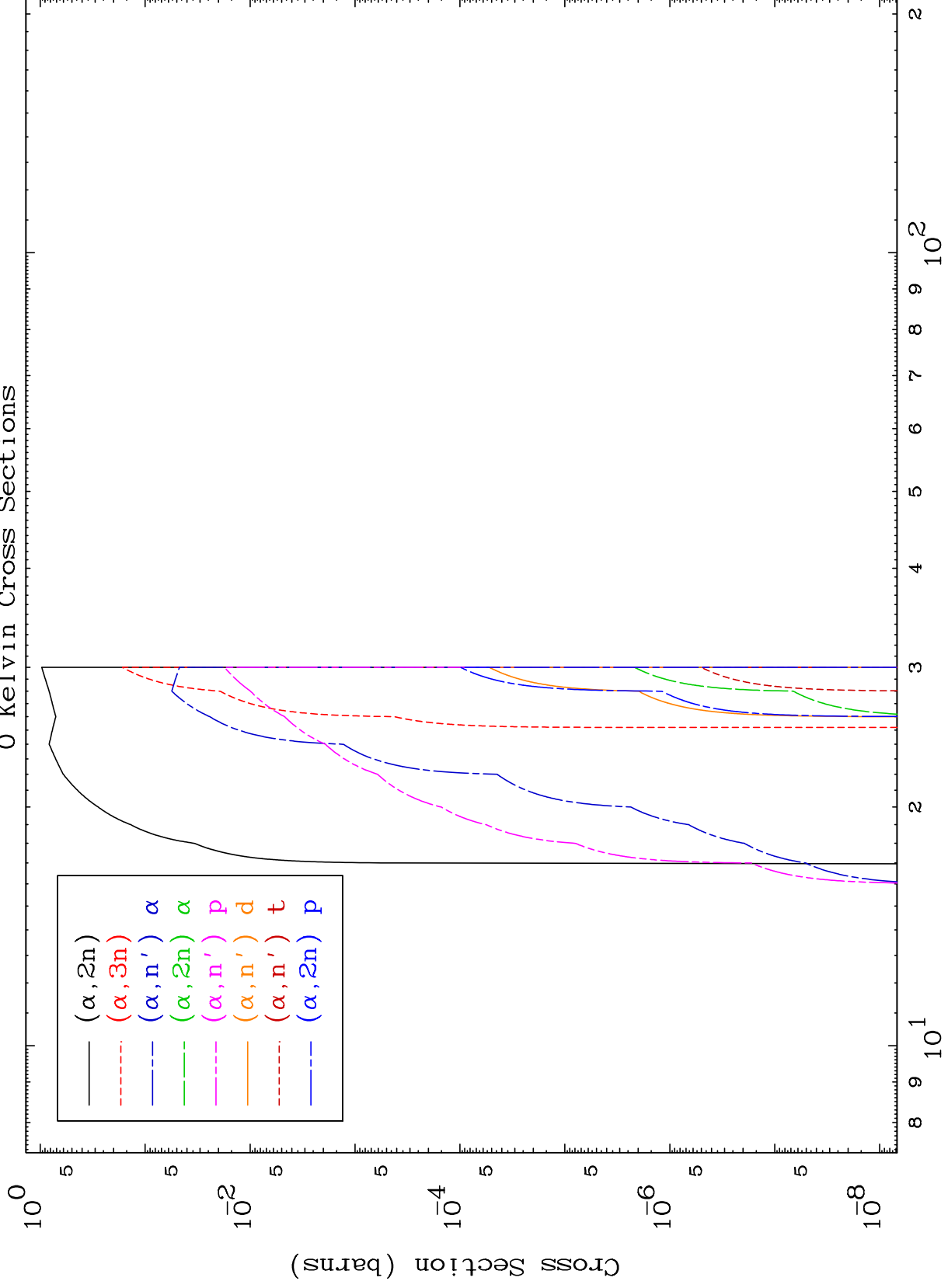


$\alpha$  Inelastic  
 $(\alpha, \text{remainder})$   
 $(\alpha, \gamma)$

MAT 5834

$\alpha$  Neutron Production  
0 Kelvin Cross Sections

58-Ce-139

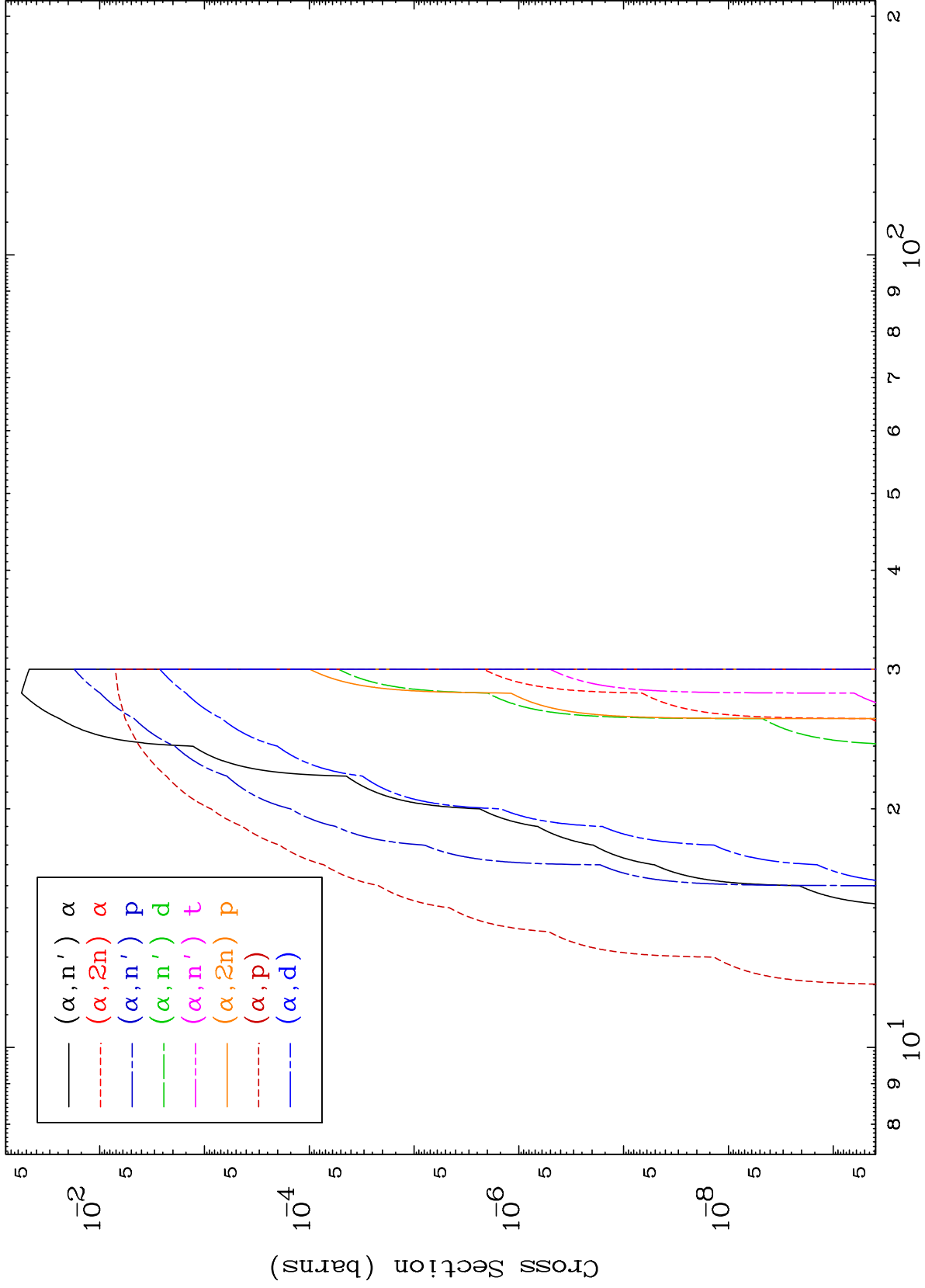


2

Incident Energy (MeV)

58-Ce-139

0 Kelvin Cross Sections

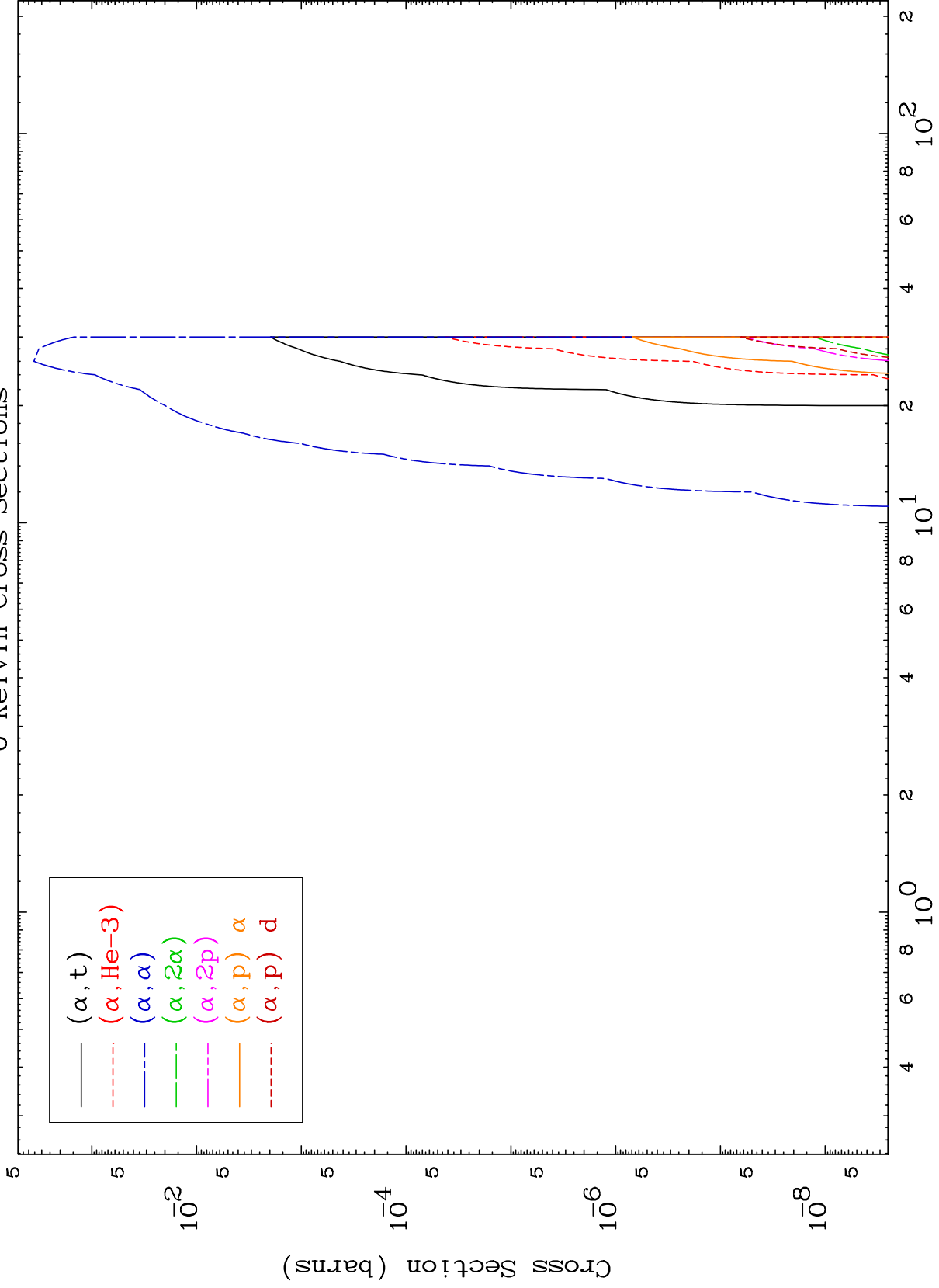


MAT 5834

$\alpha$  Charged Particle

58-Ce-139

0 Kelvin Cross Sections

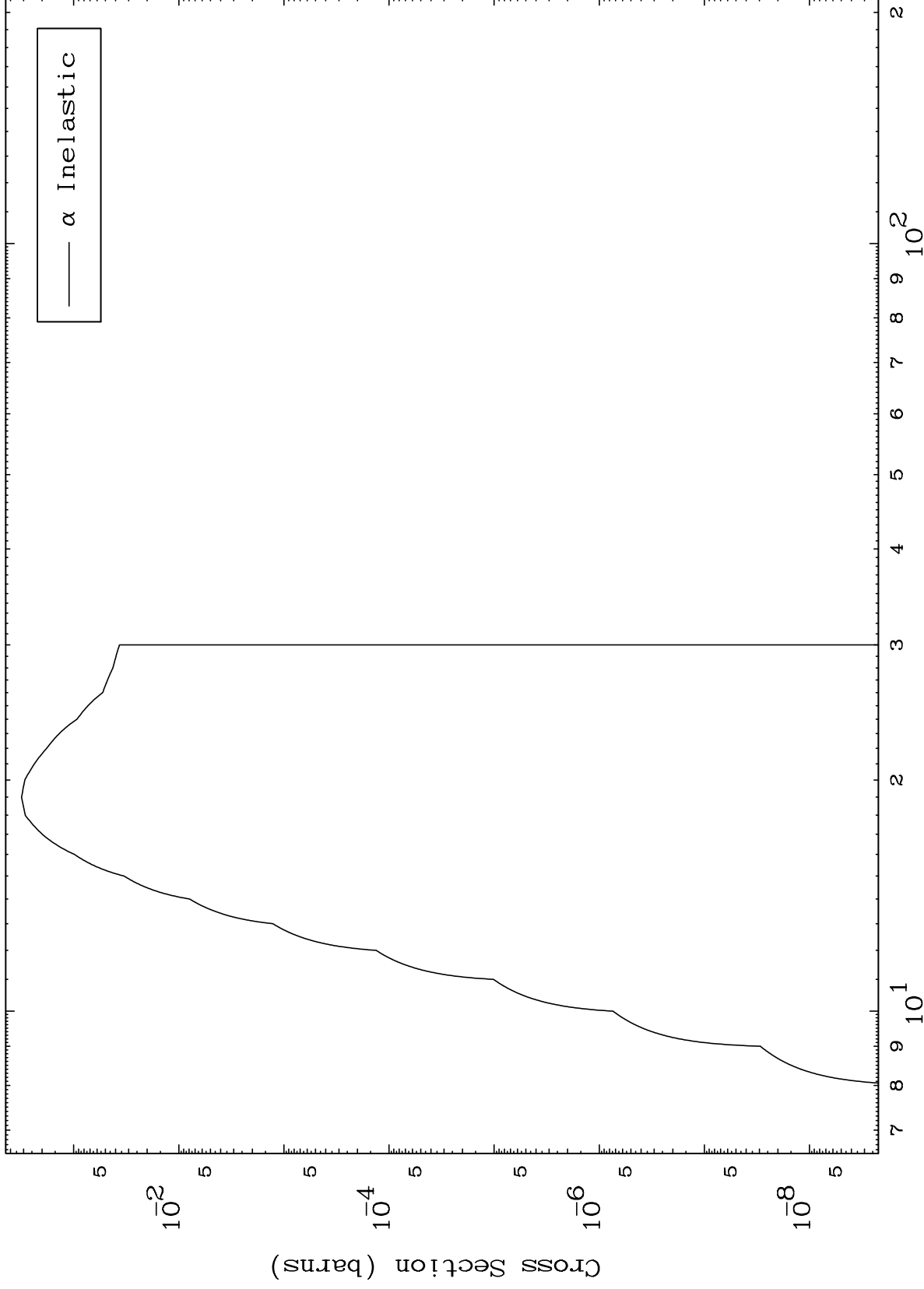


MAT 5834

( $\alpha, n'$ ) Level

58-Ce-139

0 Kelvin Cross Sections



5

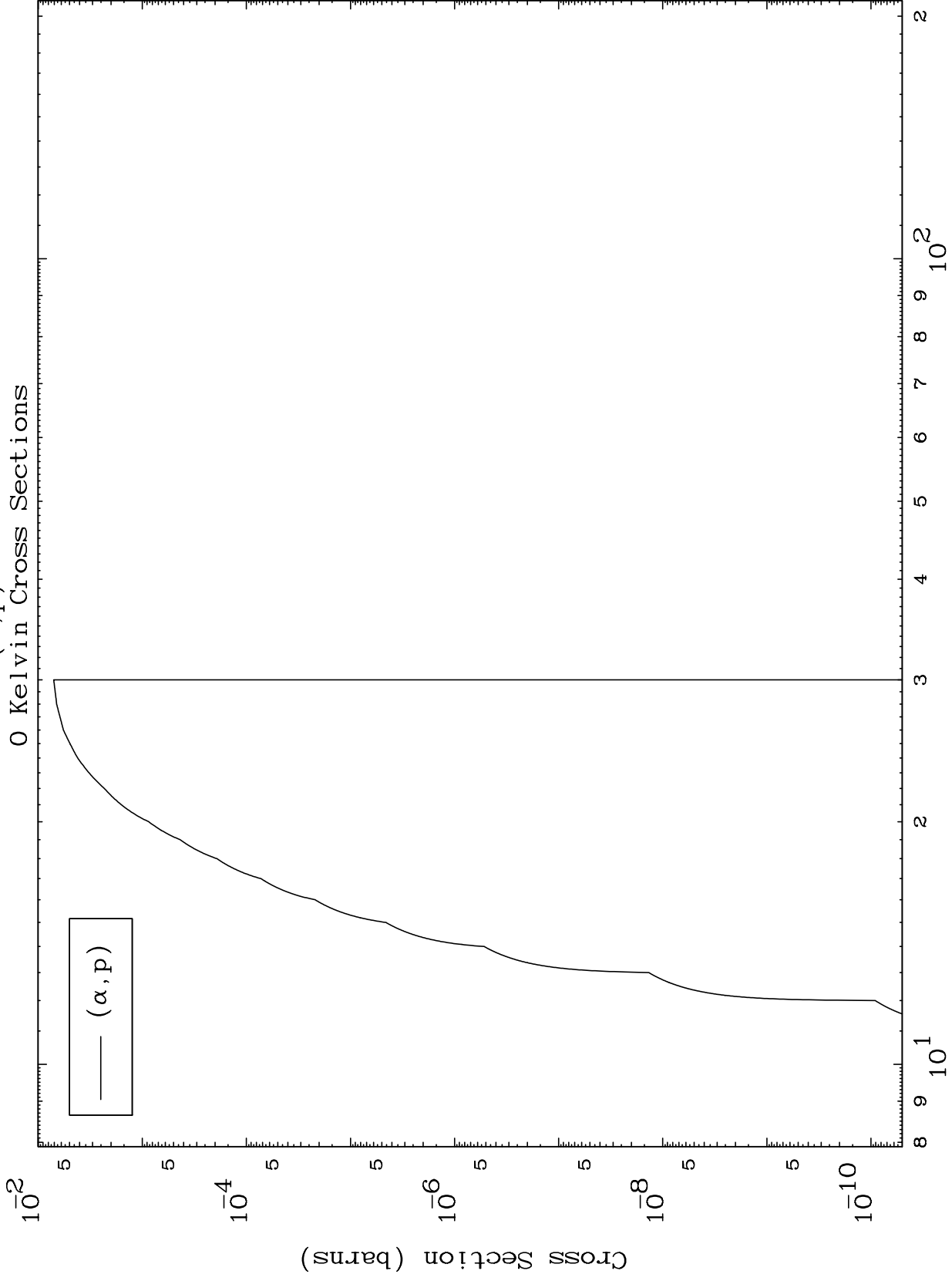
Incident Energy (MeV)

58-Ce-139

MAT 5834

( $\alpha, p$ ) Levels

58-Ce-139



Incident Energy (MeV)

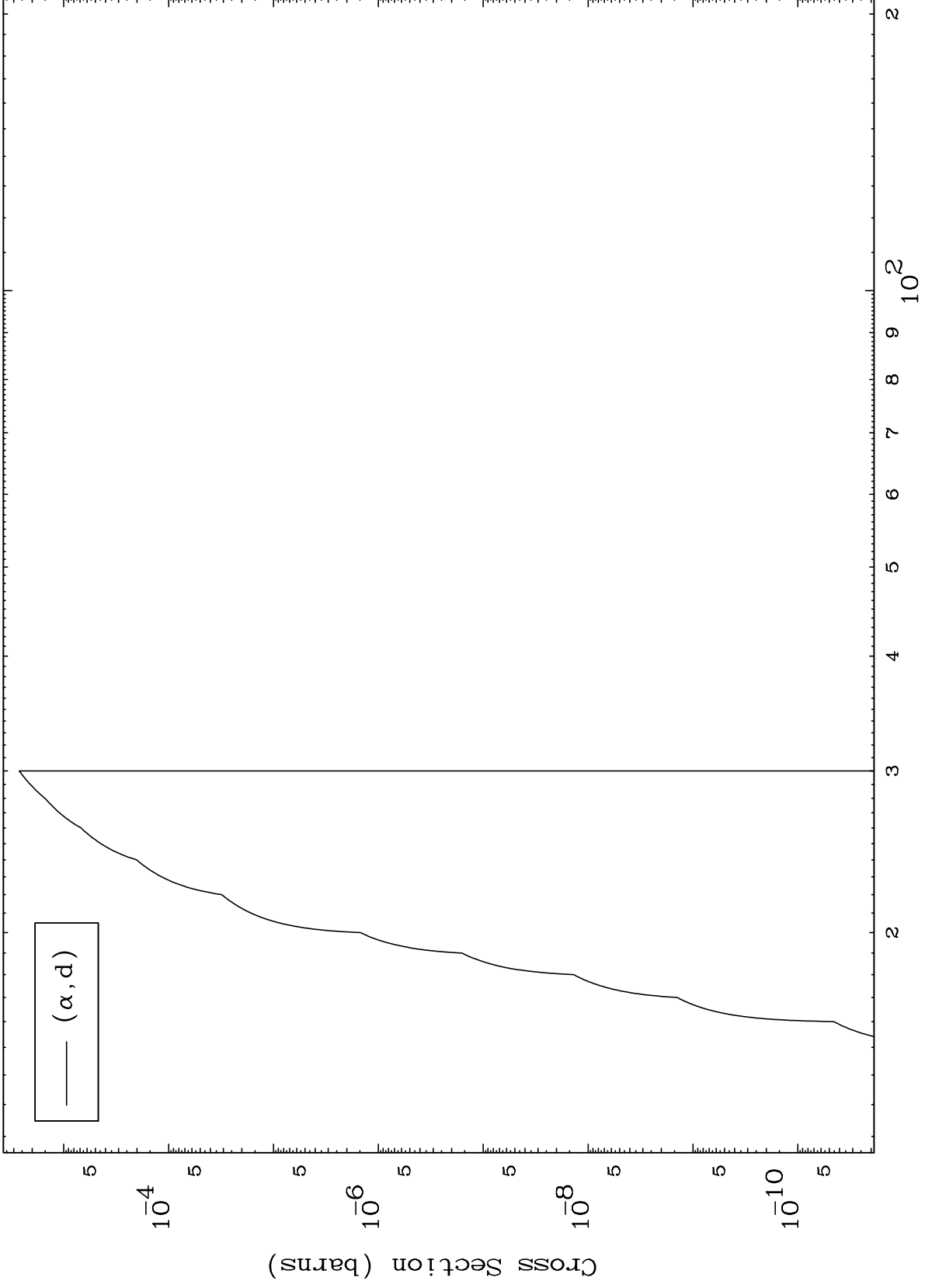
58-Ce-139

6

MAT 5834

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

58-Ce-139



7

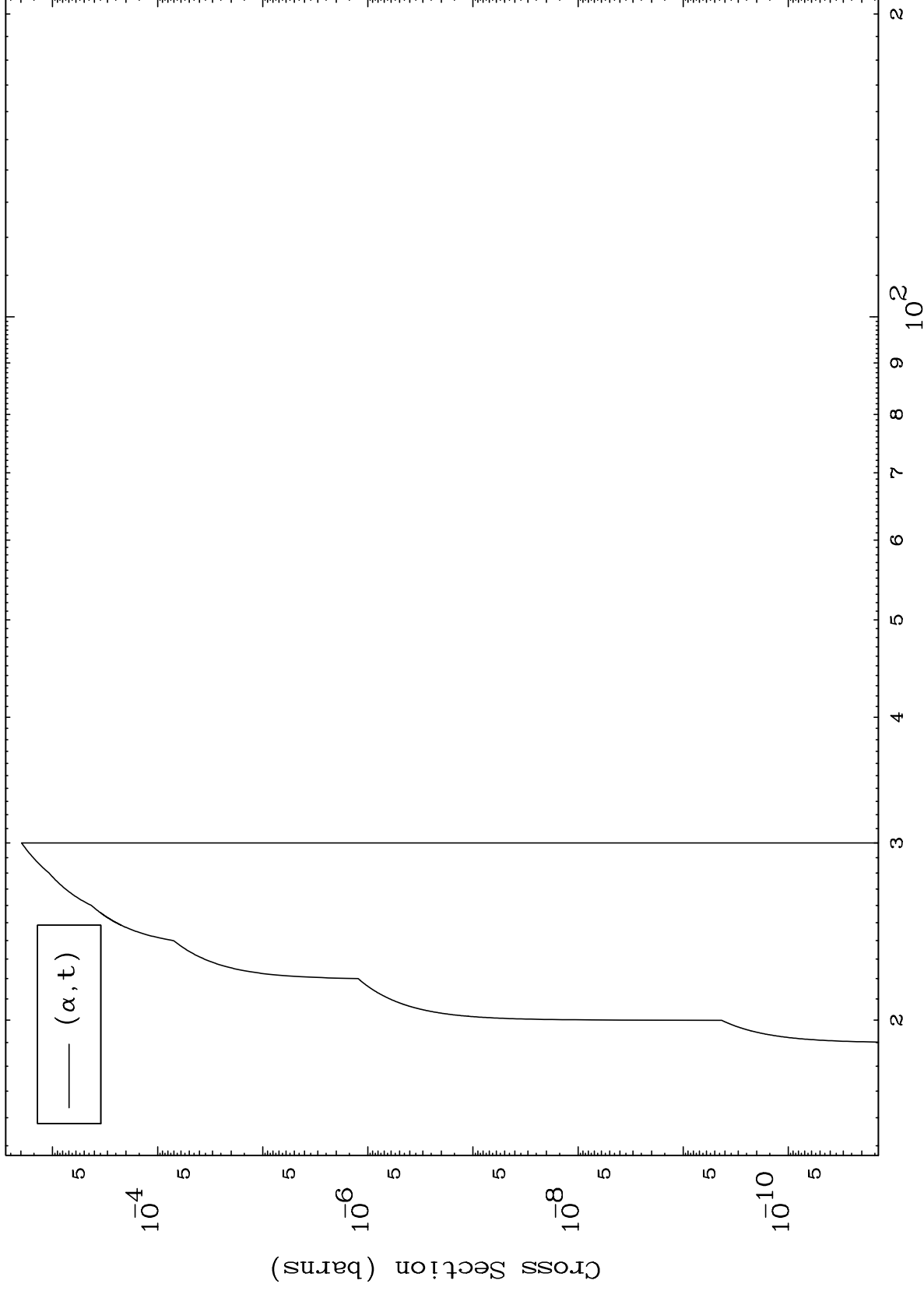
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

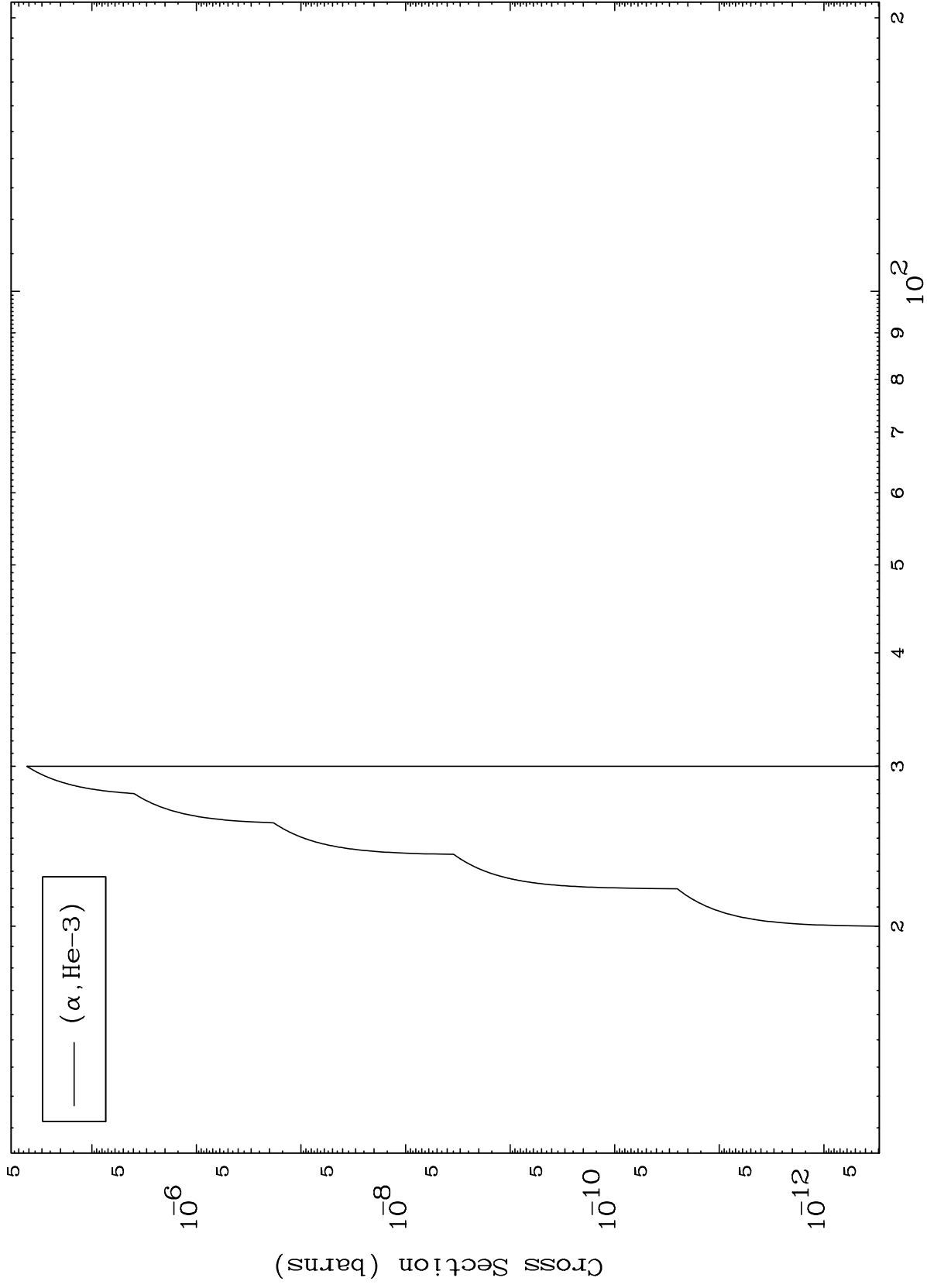
58-Ce-139



8

Incident Energy (MeV)

58-Ce-139

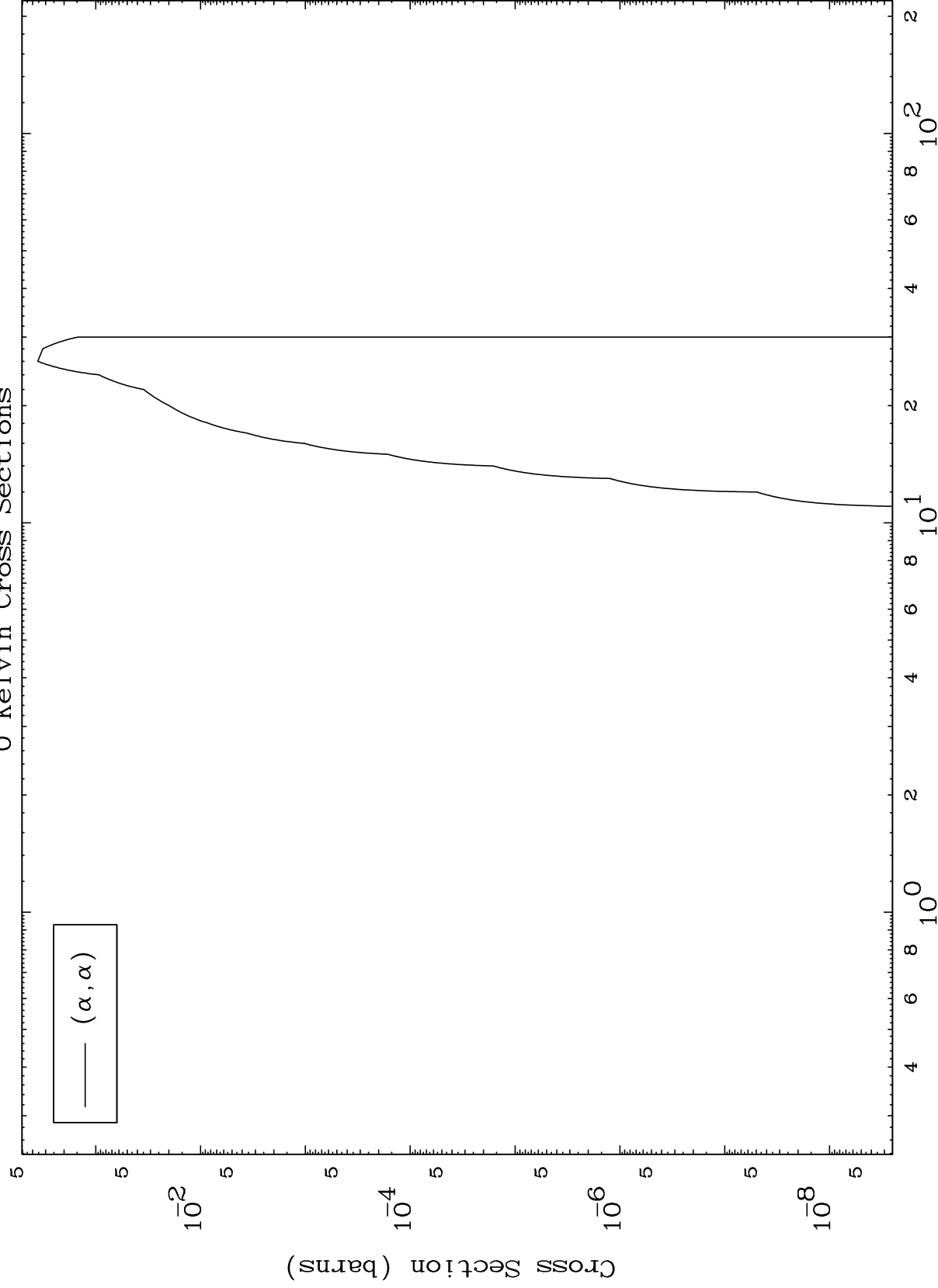


MAT 5834

( $\alpha, \alpha$ ) Levels

58-Ce-139

0 Kelvin Cross Sections



10

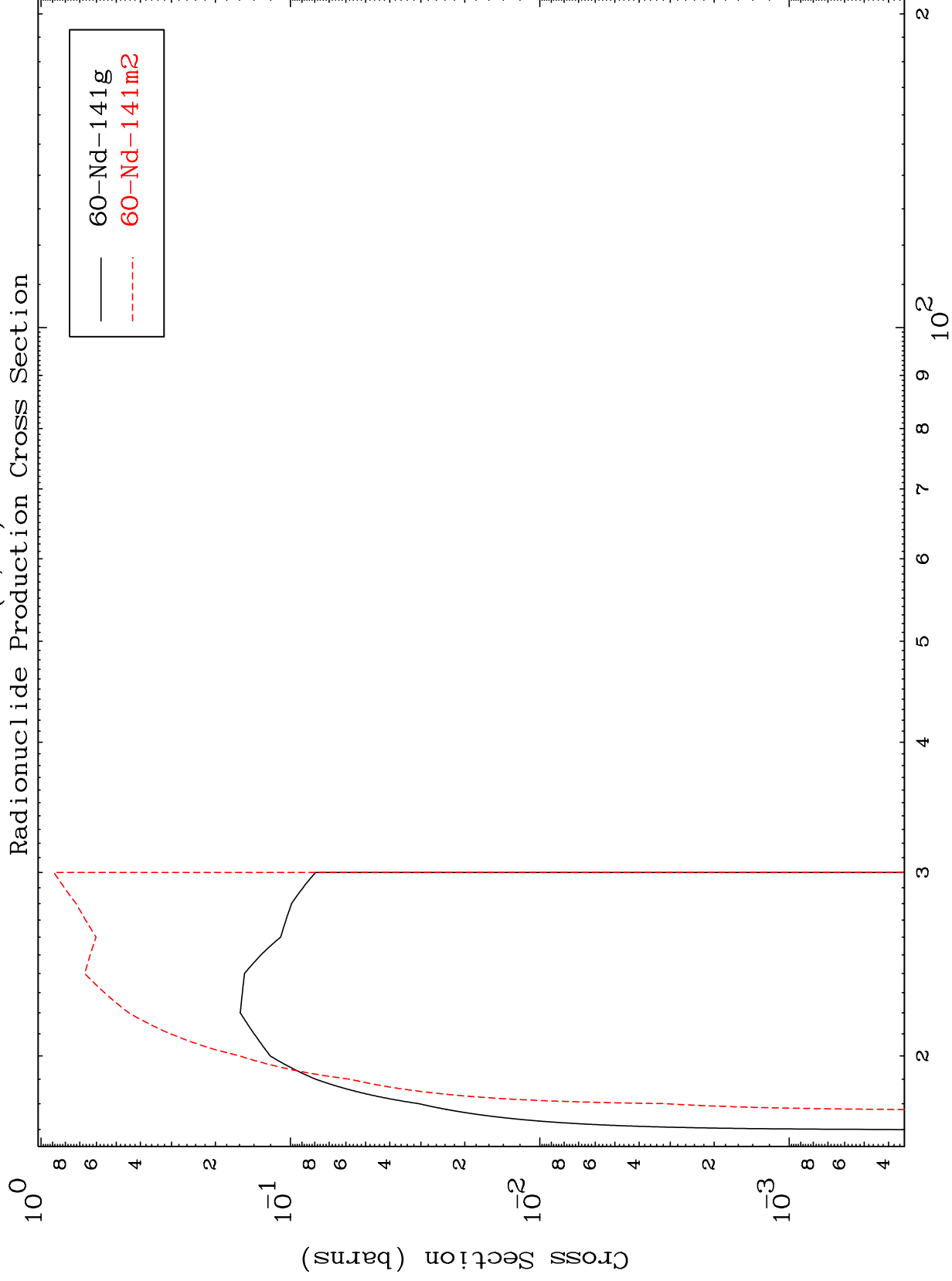
Incident Energy (MeV)

58-Ce-139

MAT 5834

58-Ce-139

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



11

Incident Energy (MeV)

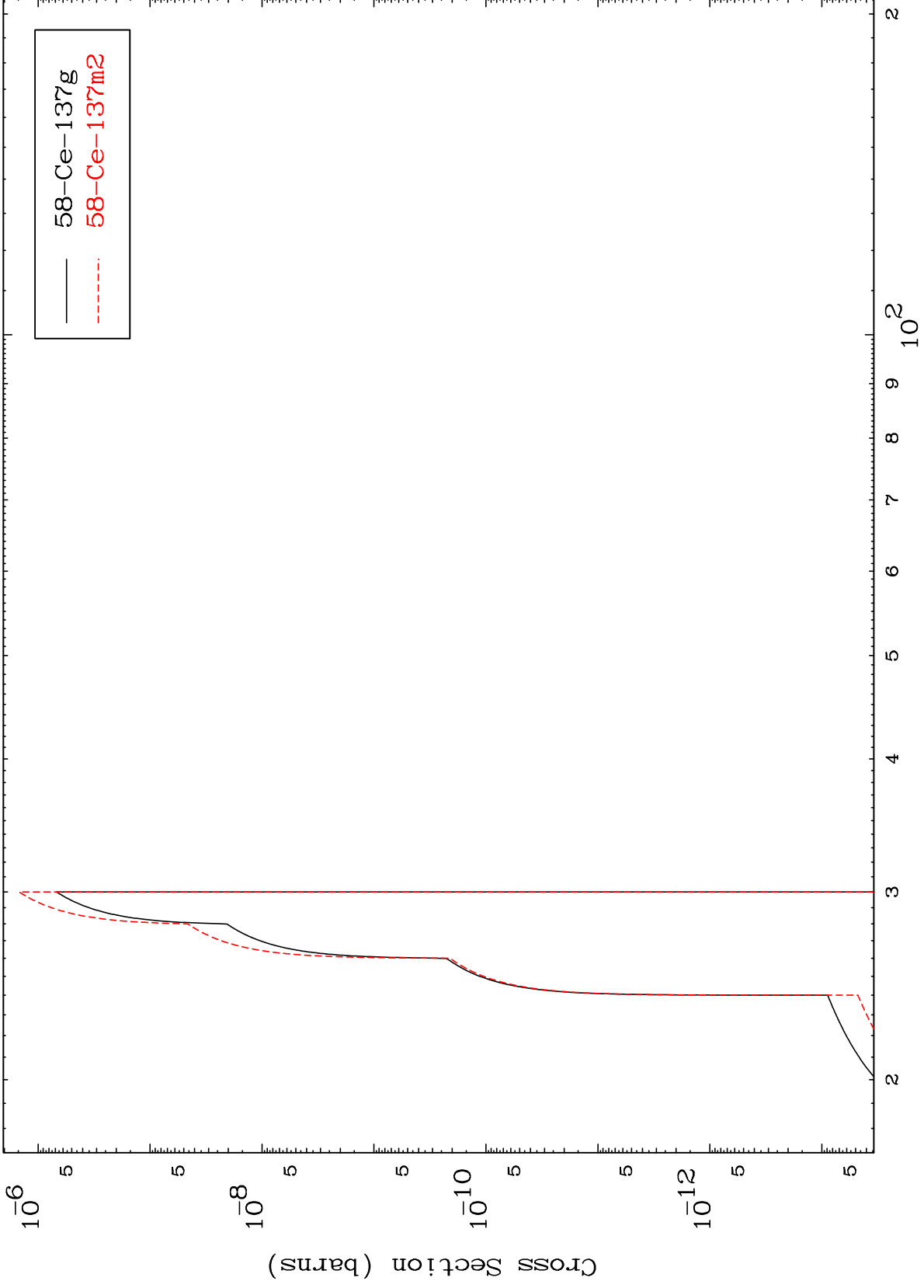
58-Ce-139

MAT 5834

$(\alpha, 2n) \alpha$

58-Ce-139

Radionuclide Production Cross Section



12

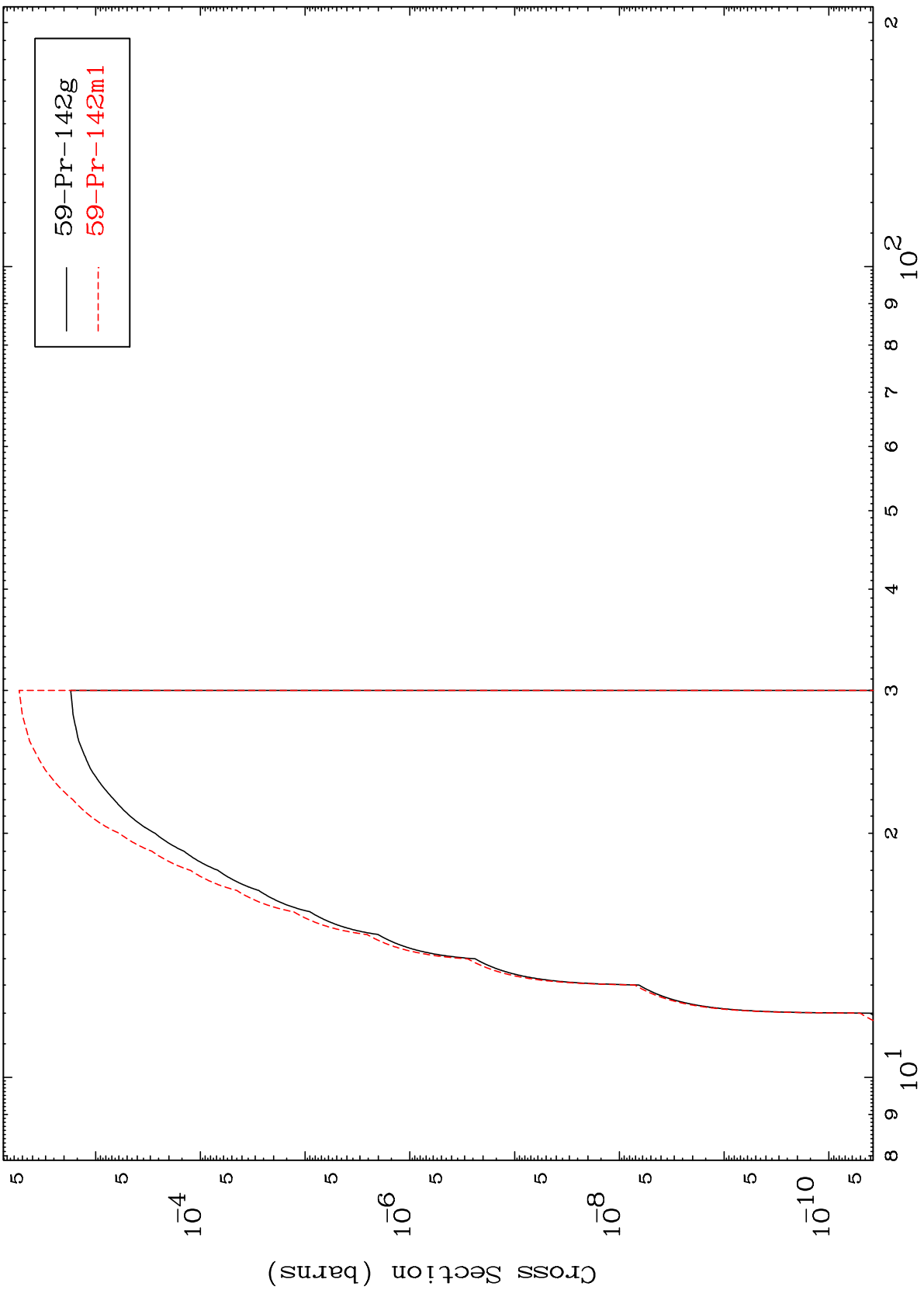
Incident Energy (MeV)

58-Ce-139

MAT 5834

58-Ce-139

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



13

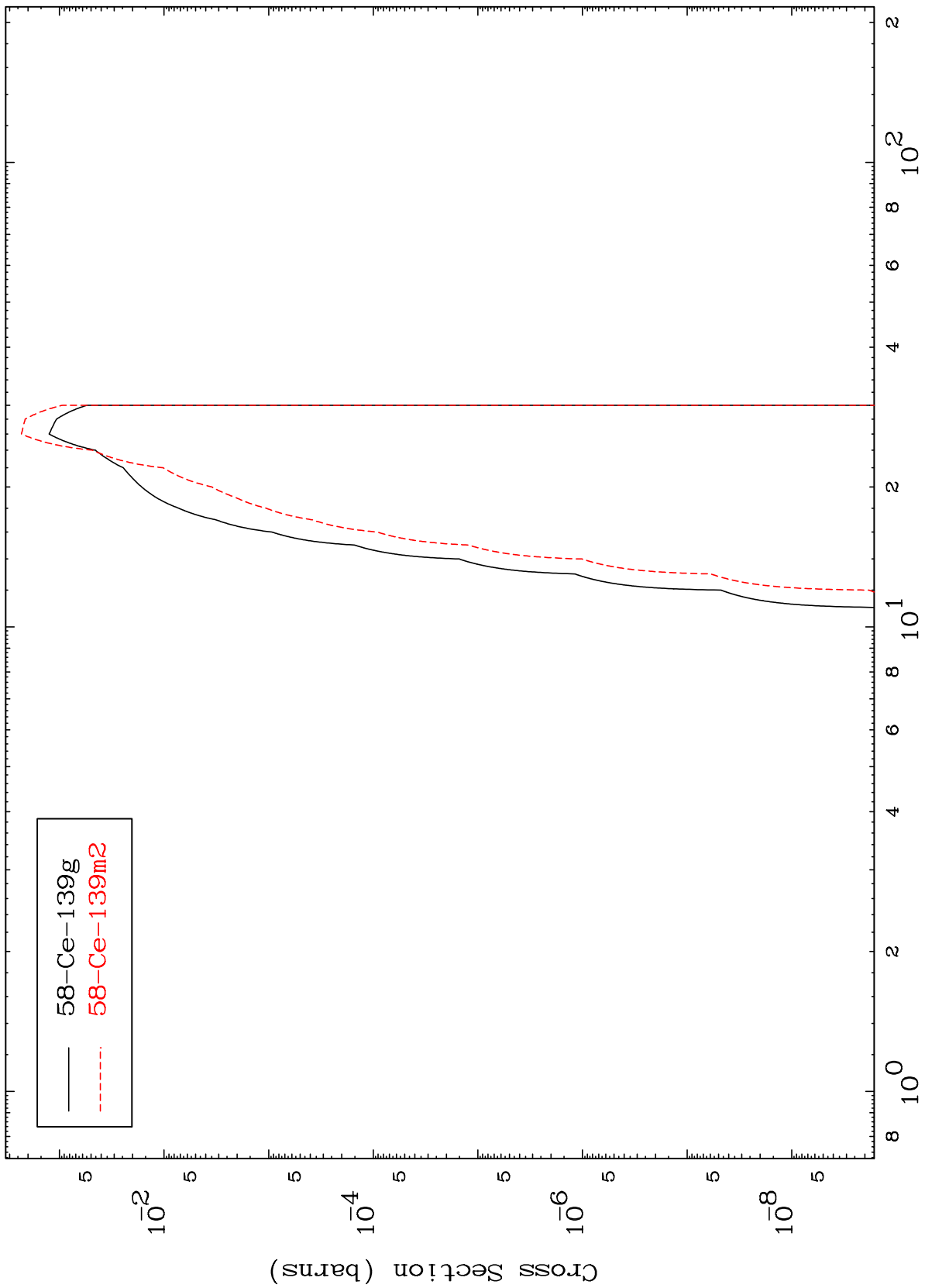
Incident Energy (MeV)

58-Ce-139

MAT 5834

58-Ce-139

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



58-Ce-139

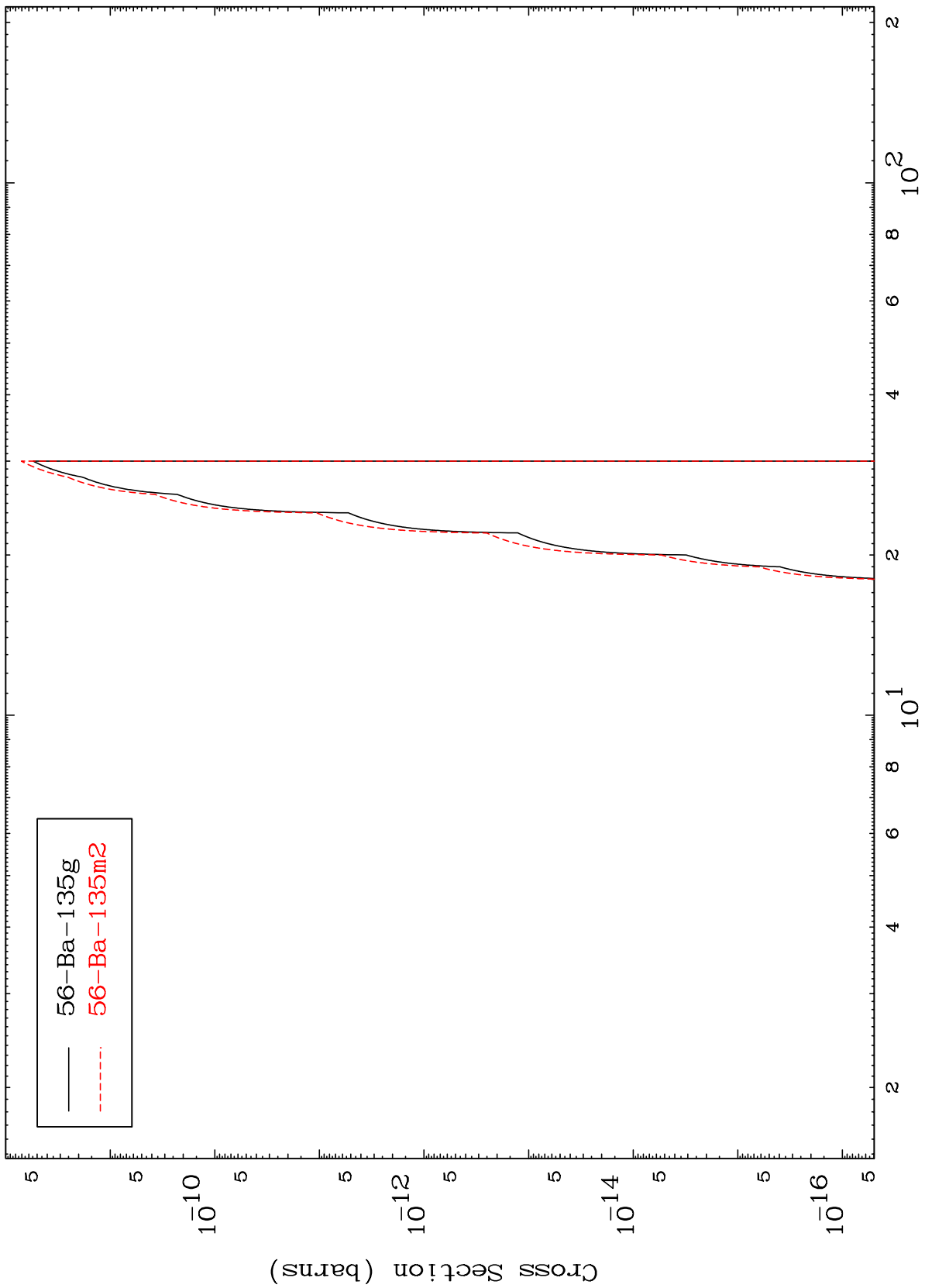
Incident Energy (MeV)

14

MAT 5834

58-Ce-139

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



15

58-Ce-139

Incident Energy (MeV)