

Program EVALPLOT  
(Version 2021-1)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550  
U.S.A.

Tele: 925-443-1911

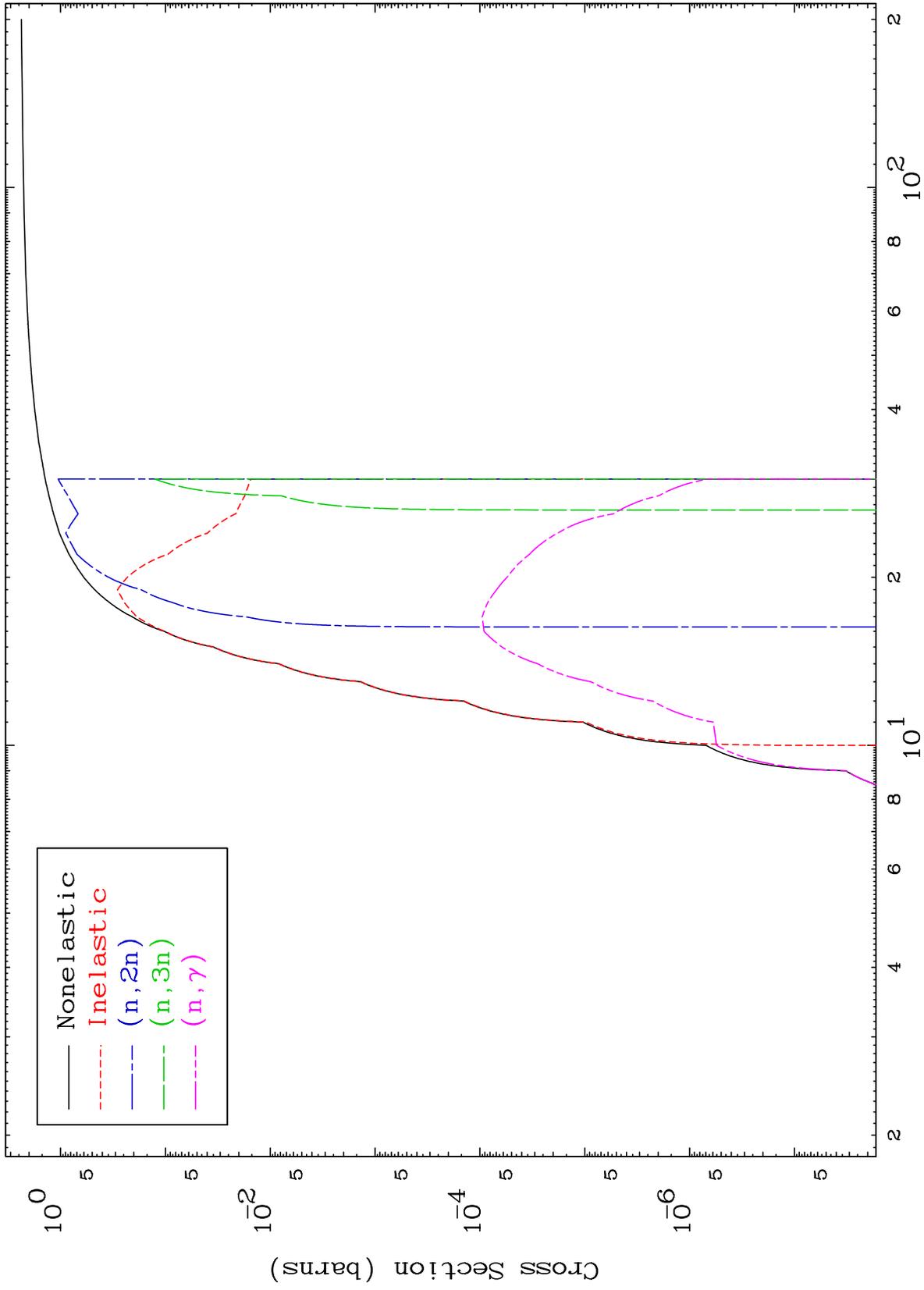
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5837

0 Kelvin  $\alpha$  Major  
Cross Sections

58-Ce-140



1

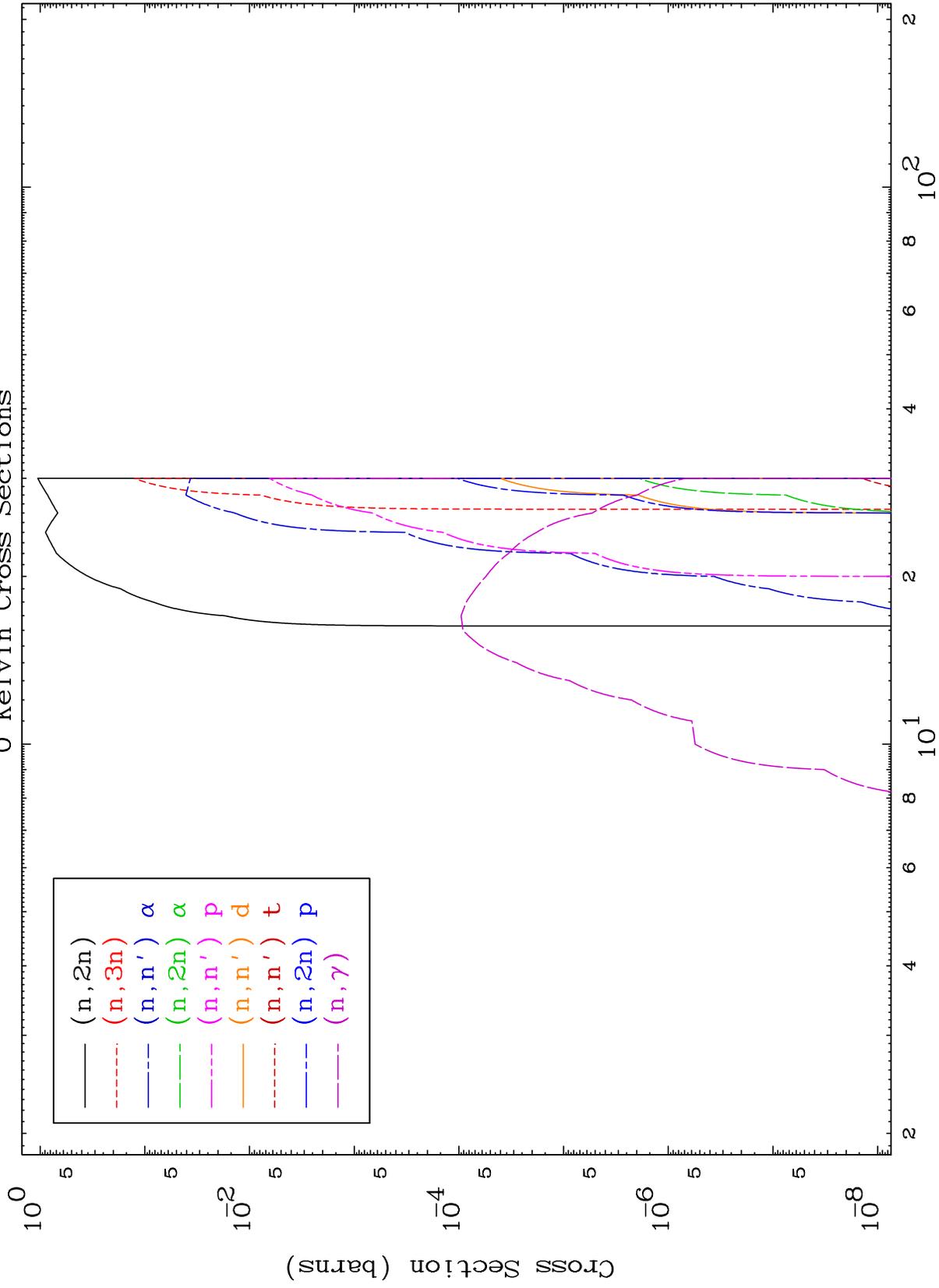
Incident Energy (MeV)

58-Ce-140

MAT 5837

$\alpha$  Neutron Absorption  
0 Kelvin Cross Sections

58-Ce-140



2

Incident Energy (MeV)

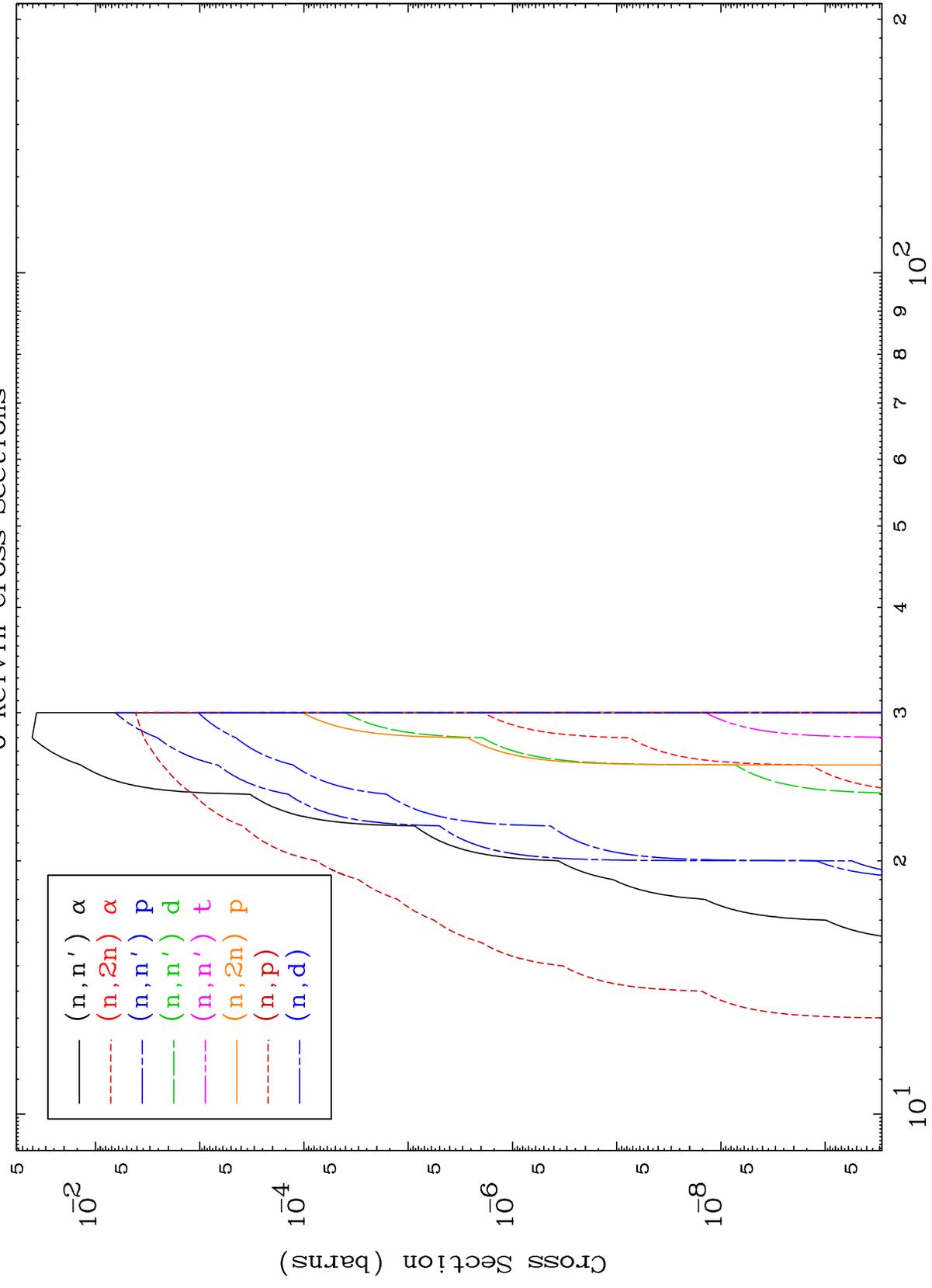
58-Ce-140



MAT 5837

$\alpha$  Charged Particle  
0 Kelvin Cross Sections

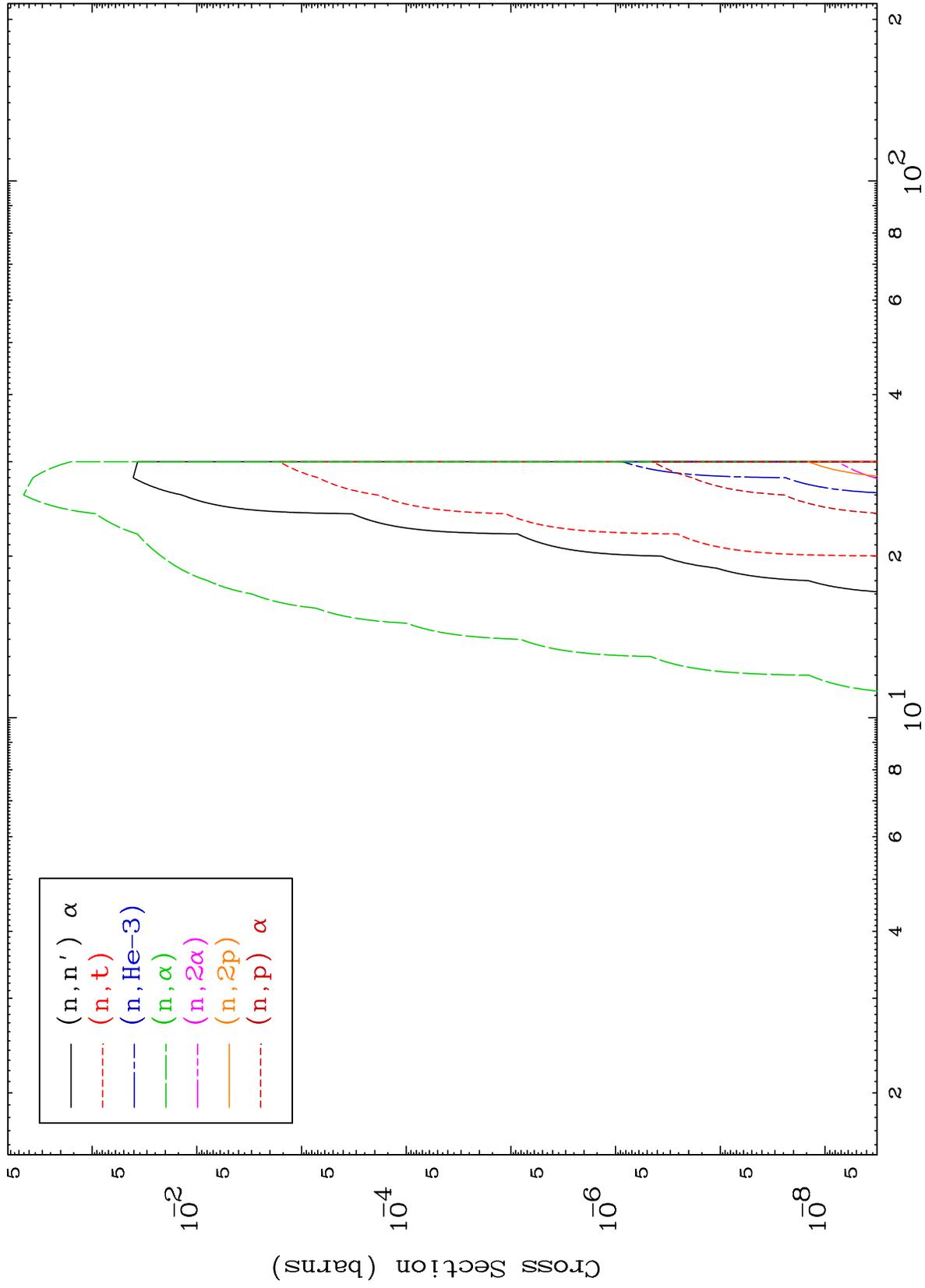
58-Ce-140



58-Ce-140

Incident Energy (MeV)

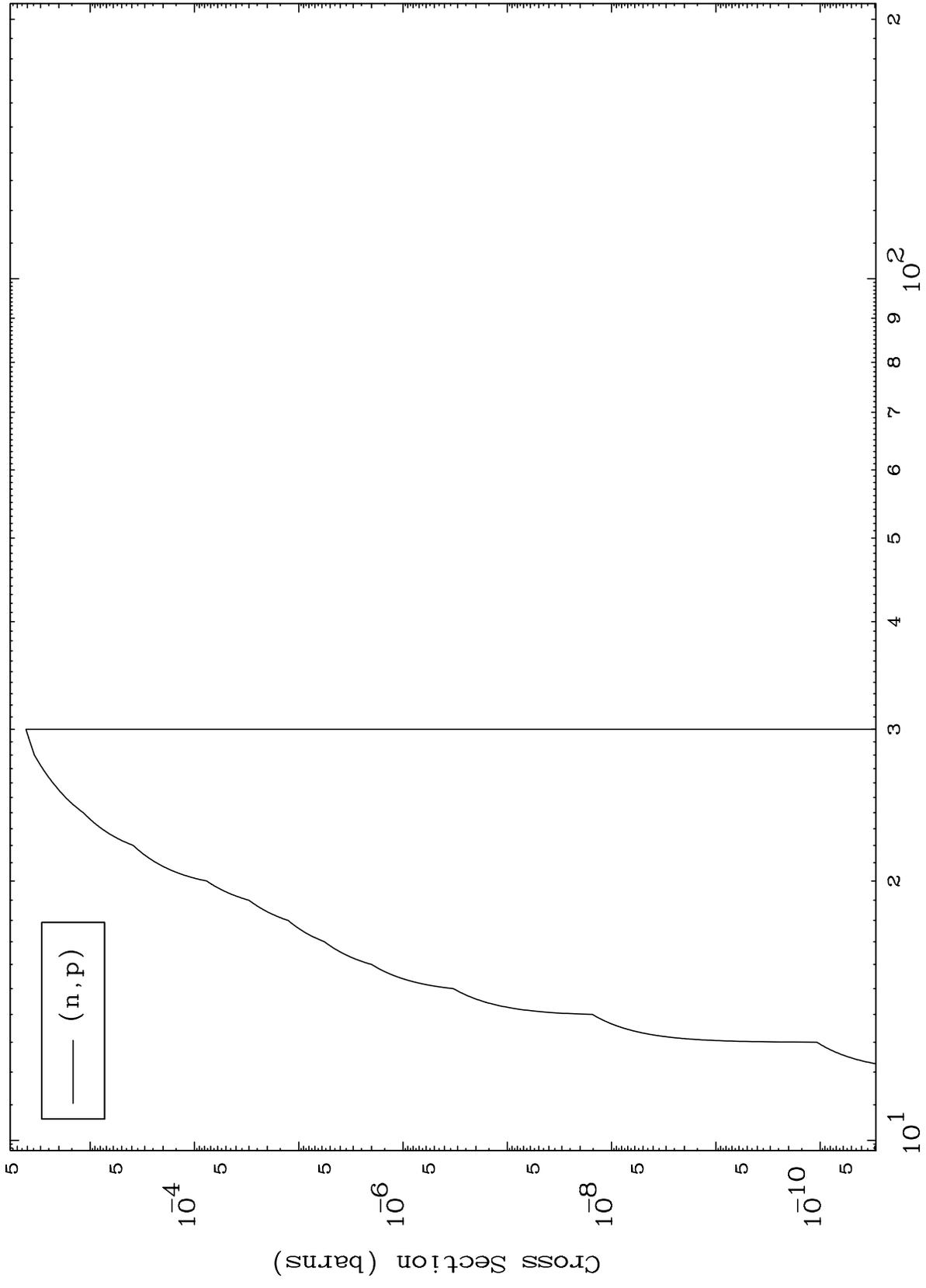
4



MAT 5837

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

58-Ce-140



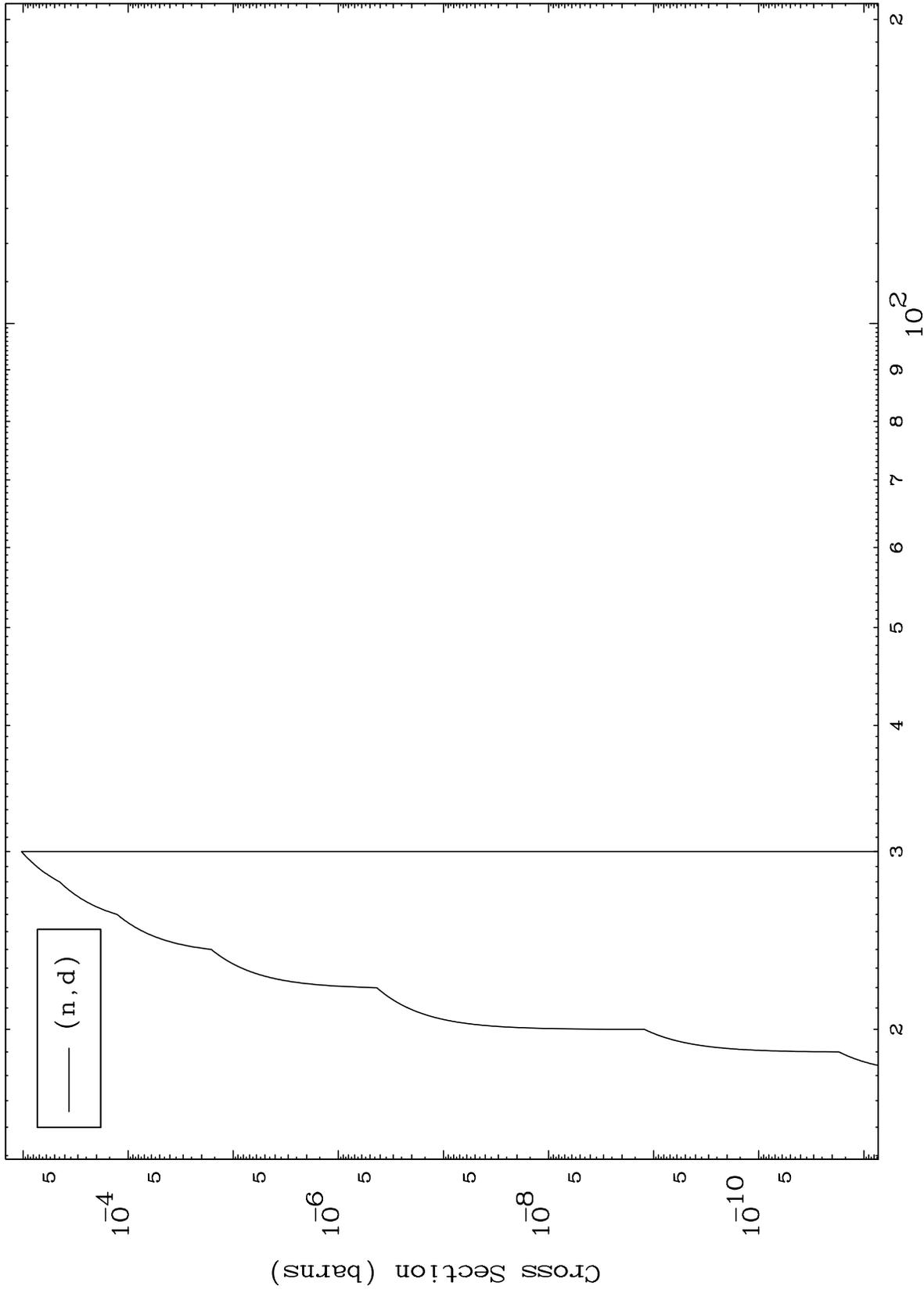
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

58-Ce-140



7

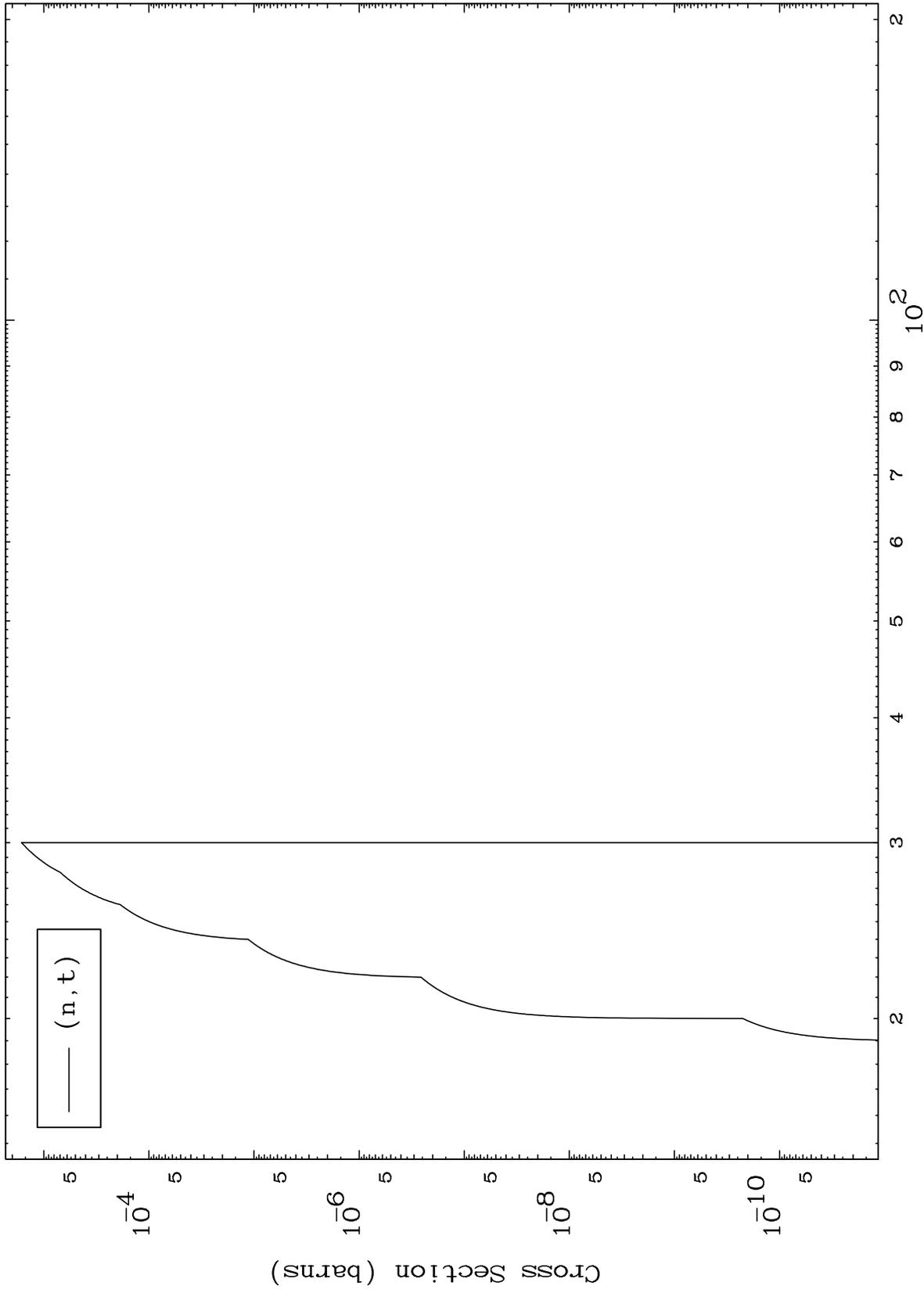
Incident Energy (MeV)

58-Ce-140

MAT 5837

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

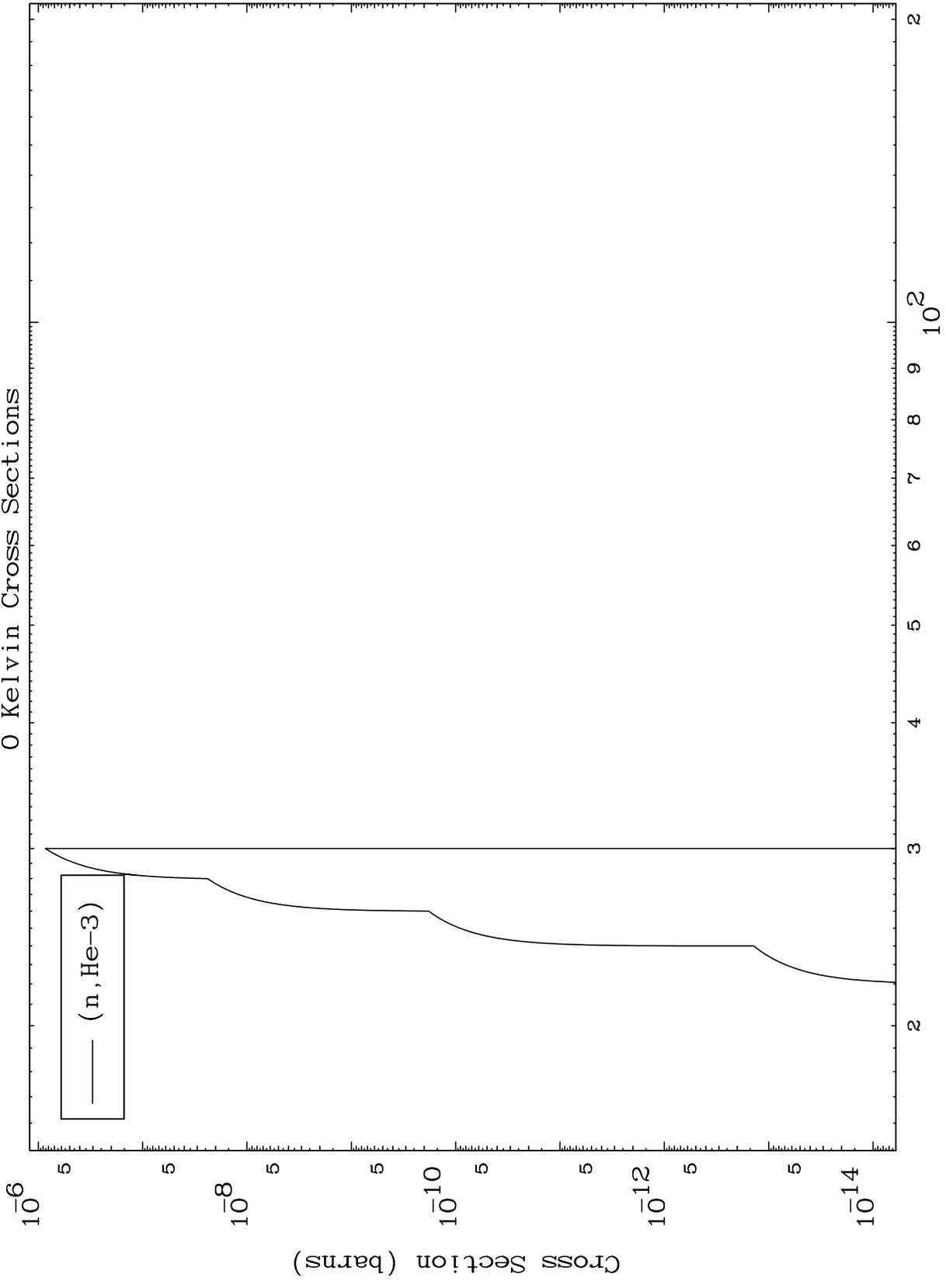
58-Ce-140



MAT 5837

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

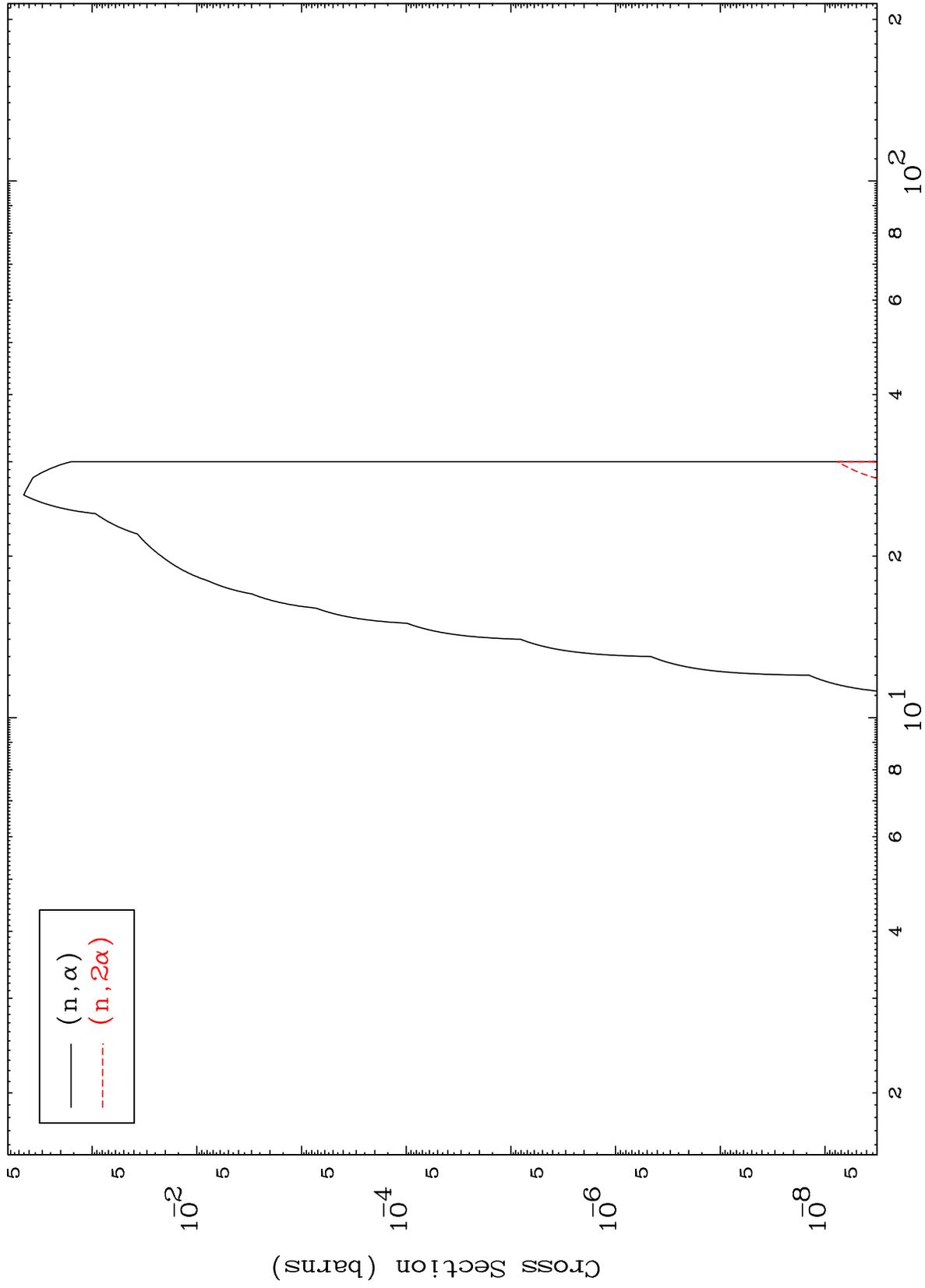
58-Ce-140



MAT 5837

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

58-Ce-140



10

Incident Energy (MeV)

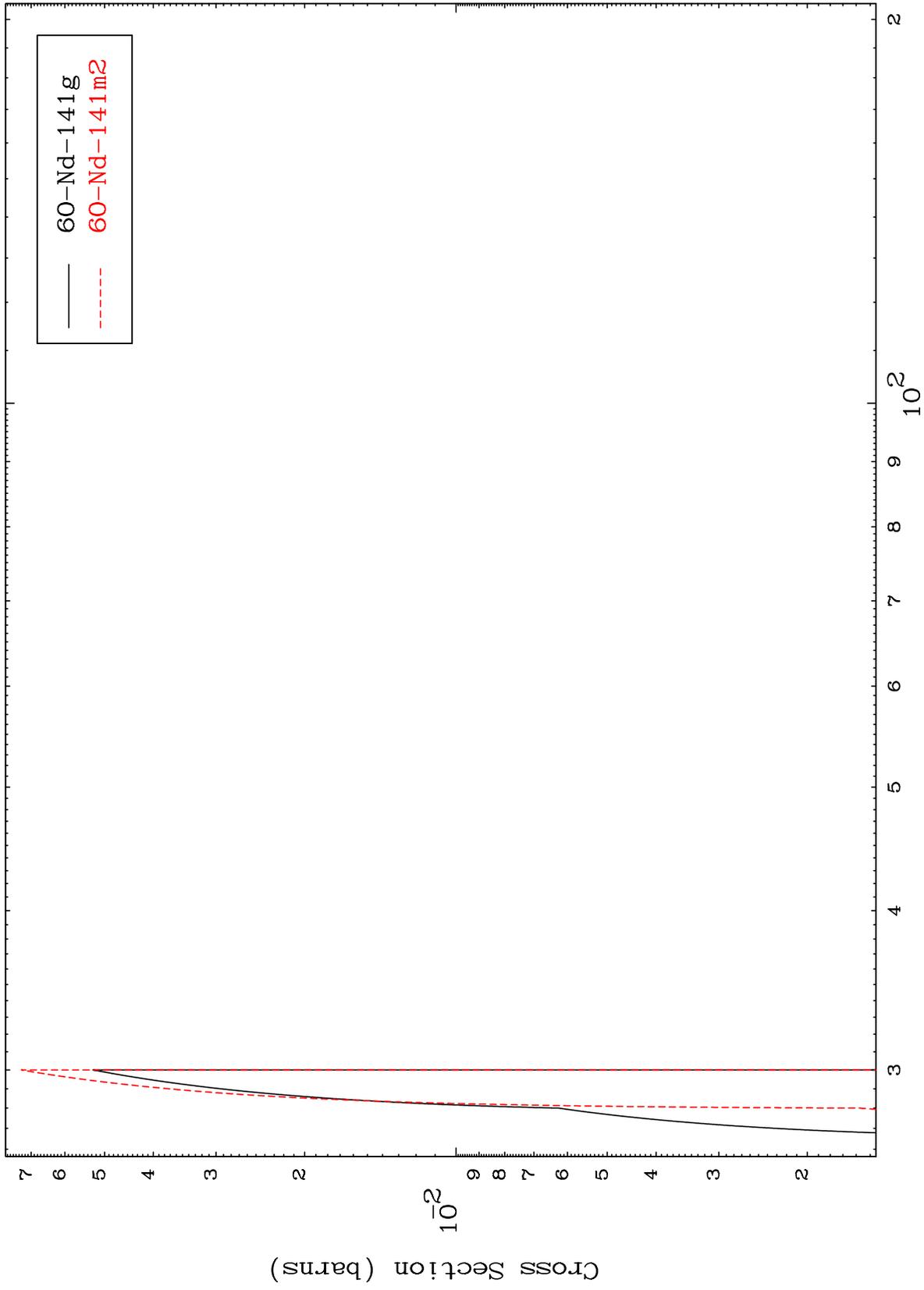
58-Ce-140

MAT 5837

(n,3n)

58-Ce-140

Radionuclide Production Cross Section



11

Incident Energy (MeV)

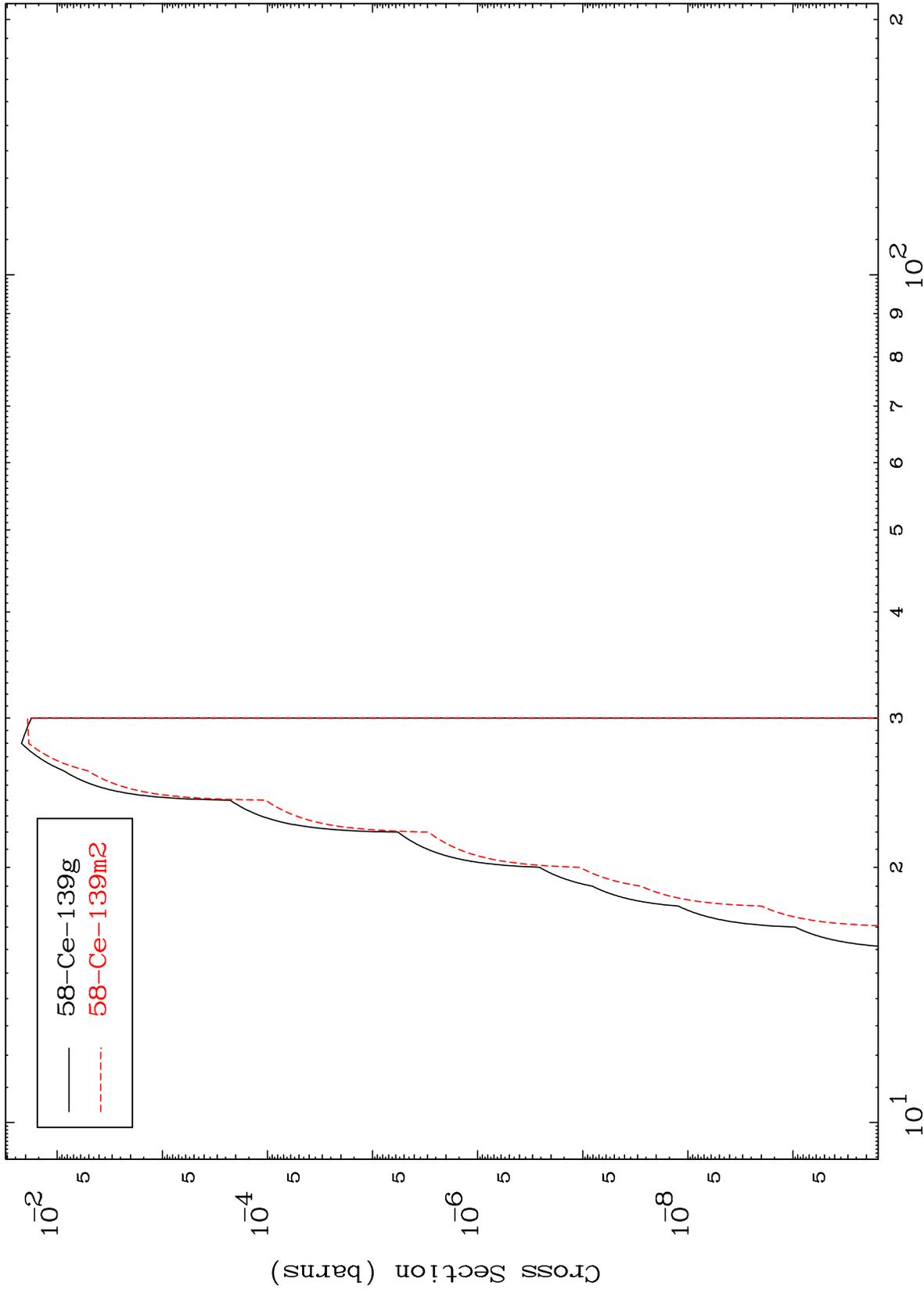
58-Ce-140

MAT 5837

(n,n')  $\alpha$

58-Ce-140

Radionuclide Production Cross Section



12

Incident Energy (MeV)

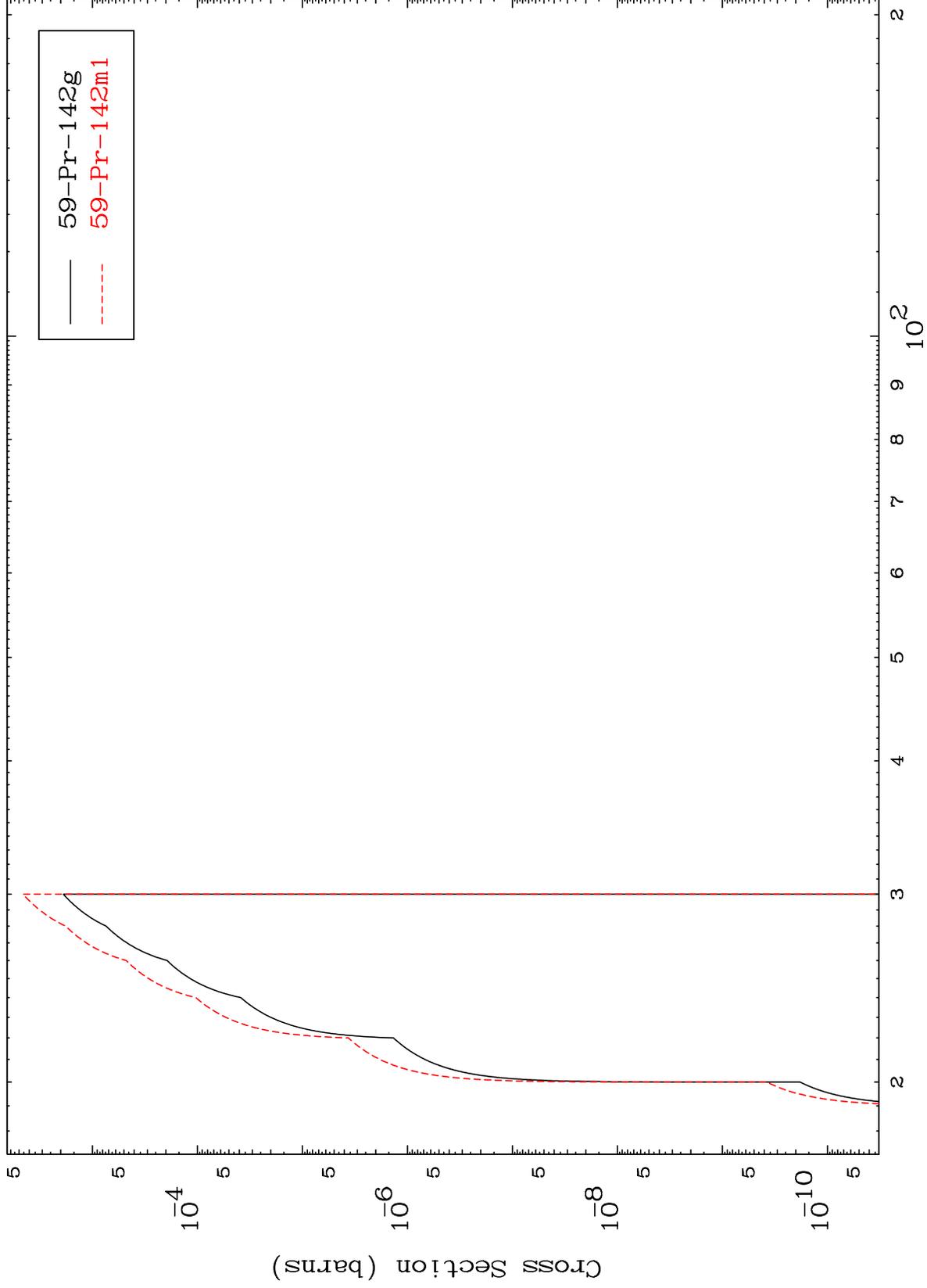
58-Ce-140

MAT 5837

(n,n') p

58-Ce-140

Radionuclide Production Cross Section



13

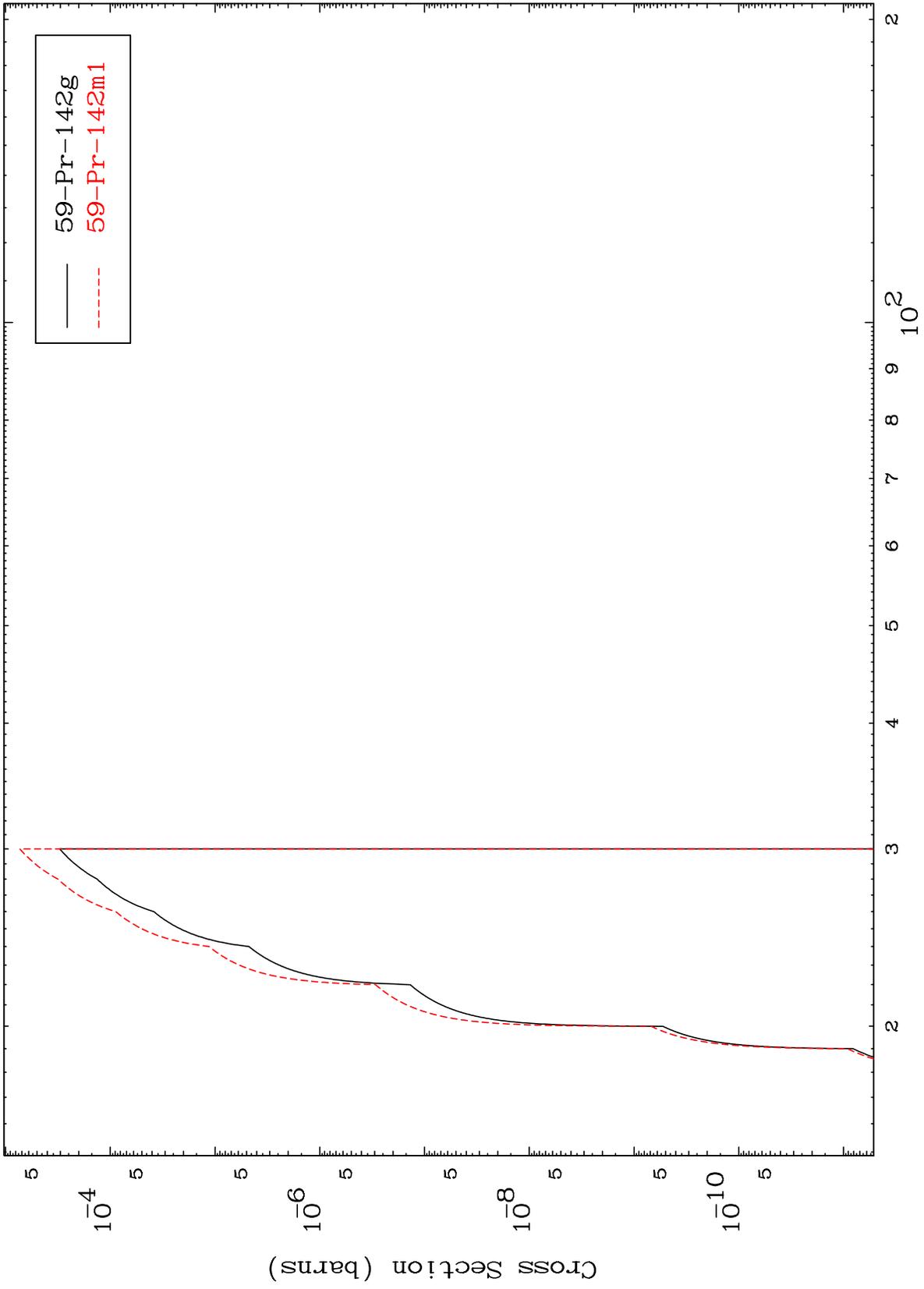
Incident Energy (MeV)

58-Ce-140

MAT 5837

58-Ce-140

(n,d)  
Radionuclide Production Cross Section



14

Incident Energy (MeV)

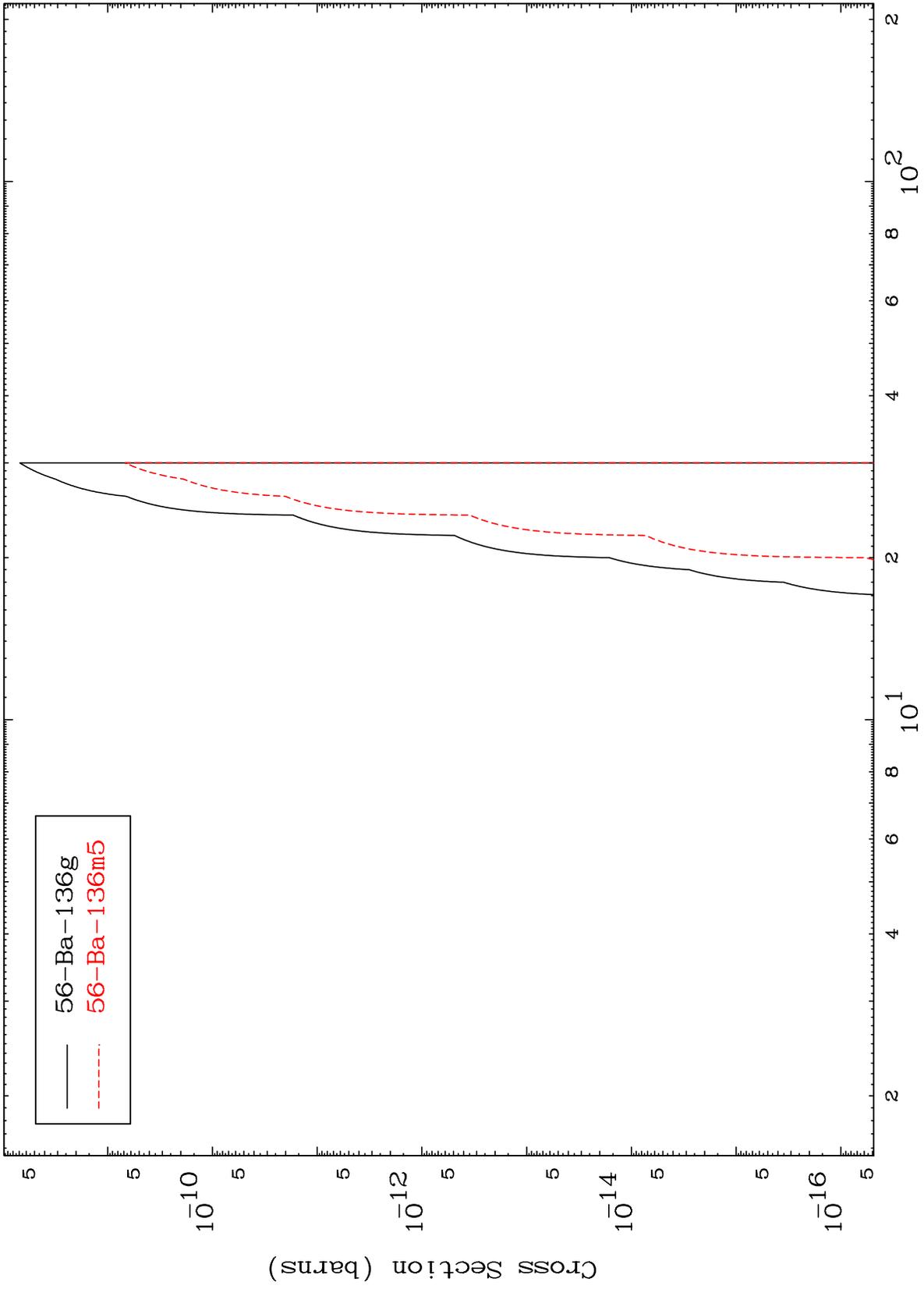
58-Ce-140

MAT 5837

(n,2α)

58-Ce-140

Radionuclide Production Cross Section



15

Incident Energy (MeV)

58-Ce-140