

Program EVALPLOT  
(Version 2021-1)

by

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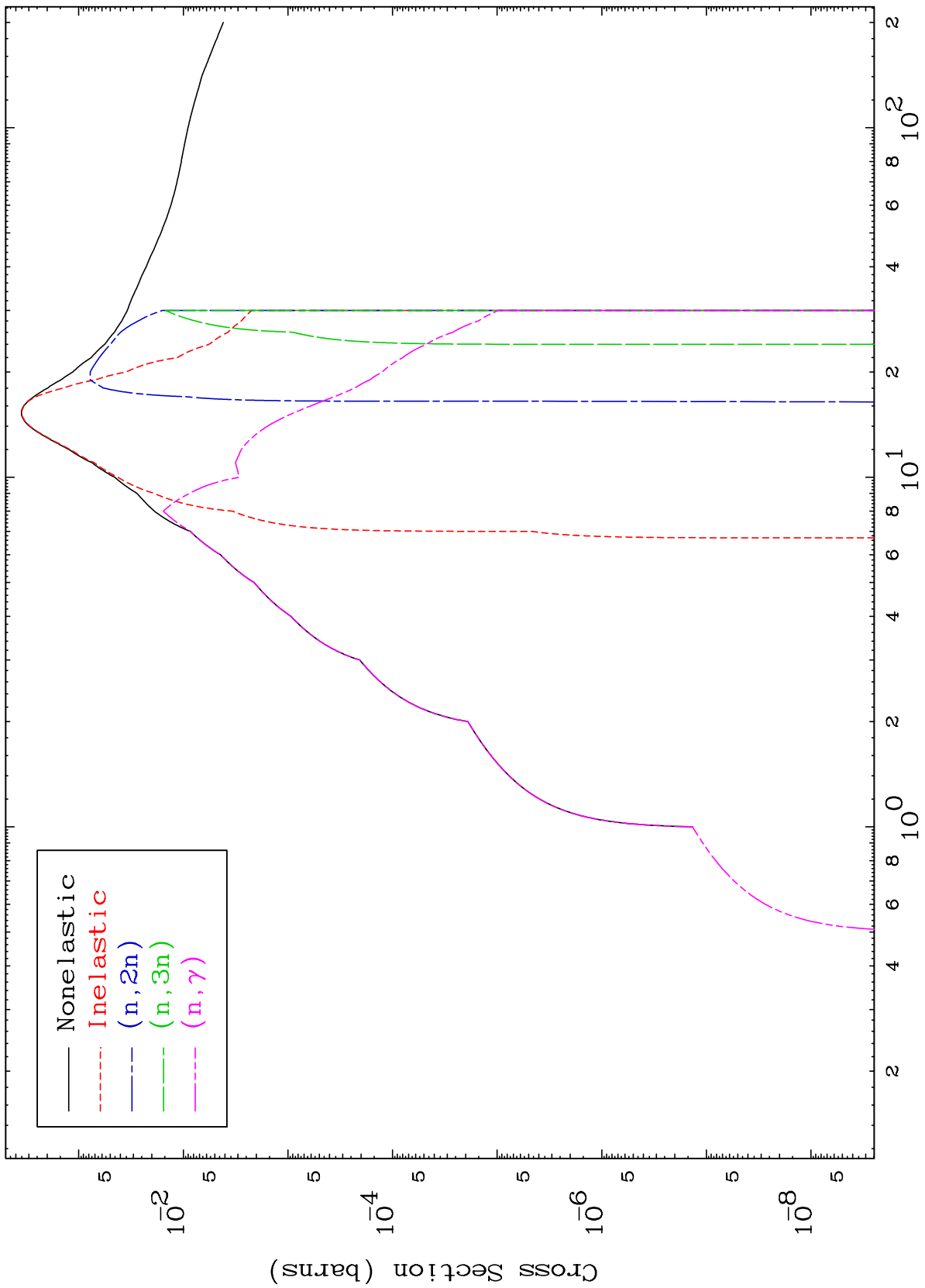
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5835

Photon Major  
0 Kelvin Cross Sections

58-Ce-139m

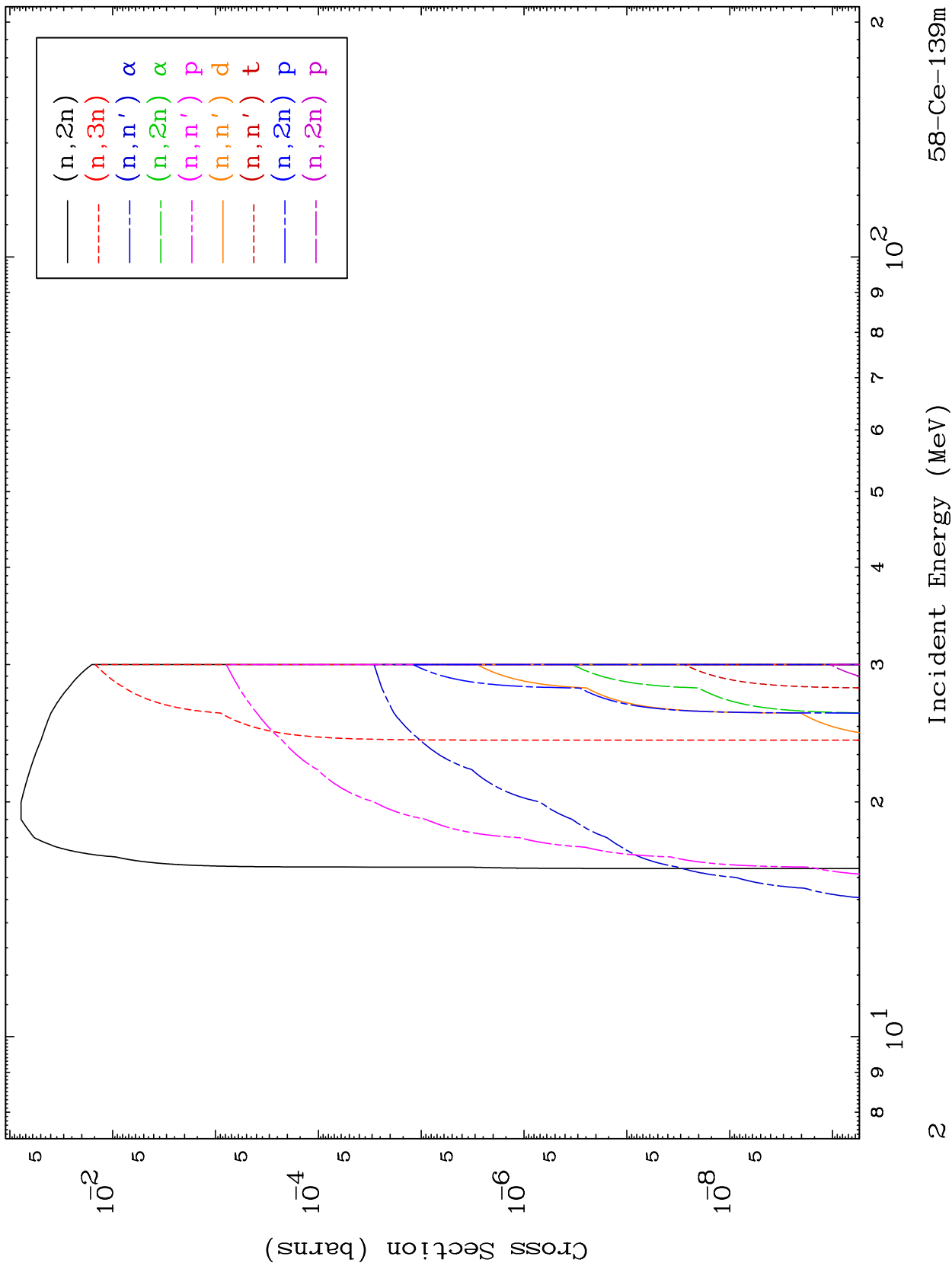


Legend:  
— Nonelastic  
- - - Inelastic  
- · - (n, 2n)  
- - - (n, 3n)  
- - - (n, γ)

MAT 5835

Photon Neutron Absorption  
0 Kelvin Cross Sections

58-Ce-139m



58-Ce-139m

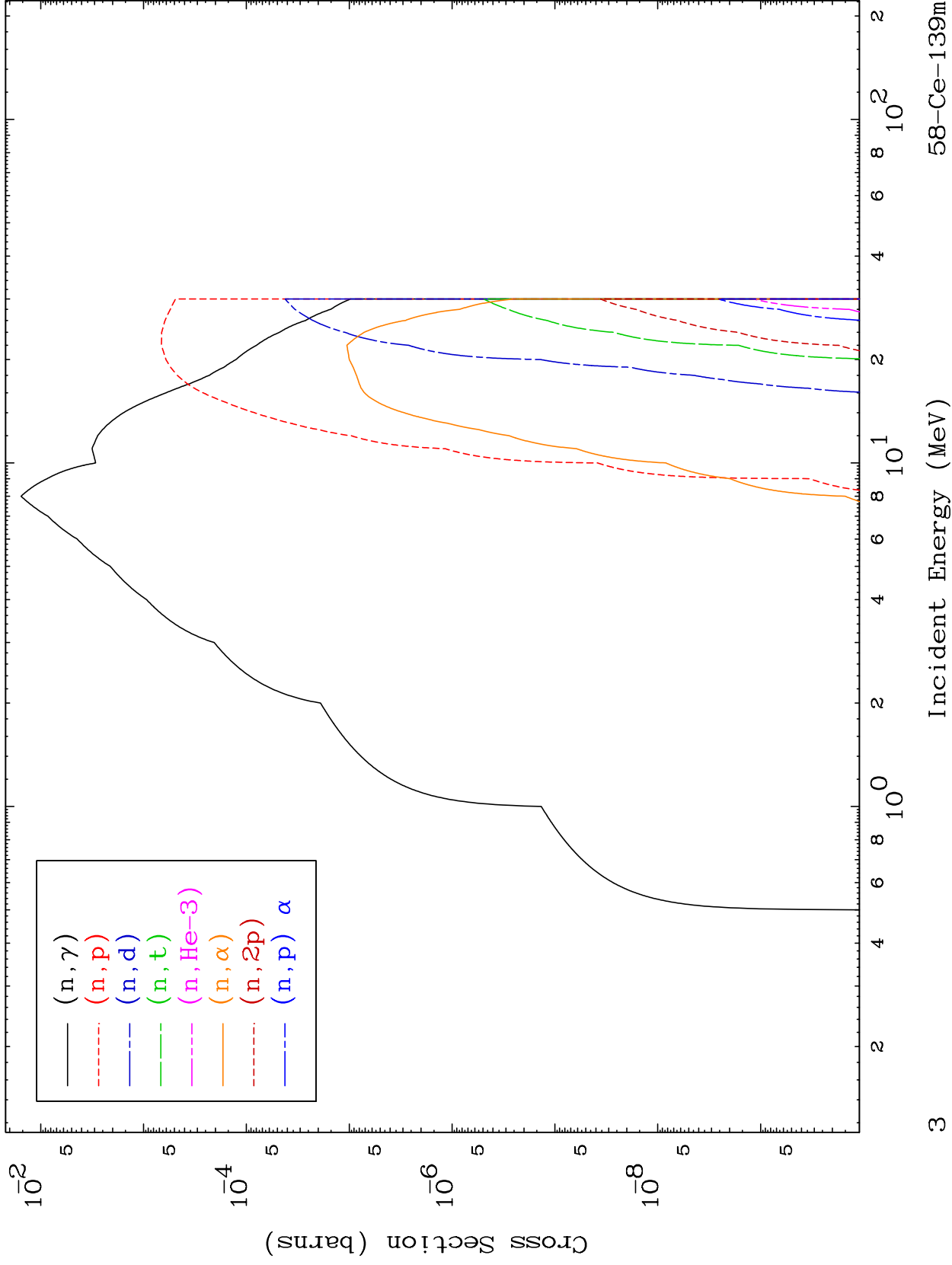
Incident Energy (MeV)

2

MAT 5835

Photon Neutron Absorption  
0 Kelvin Cross Sections

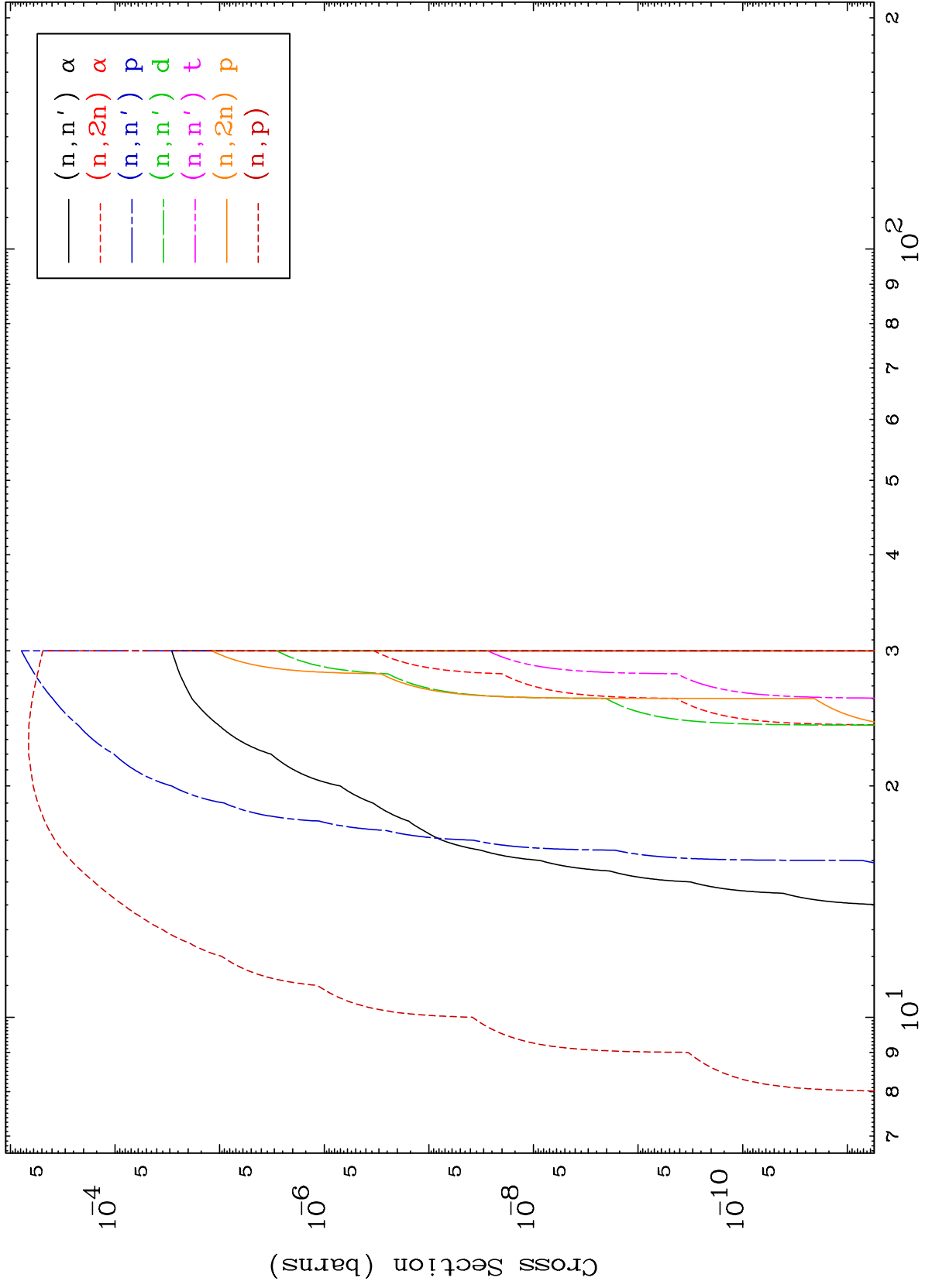
58-Ce-139m



MAT 5835

Photon Charged Particle  
0 Kelvin Cross Sections

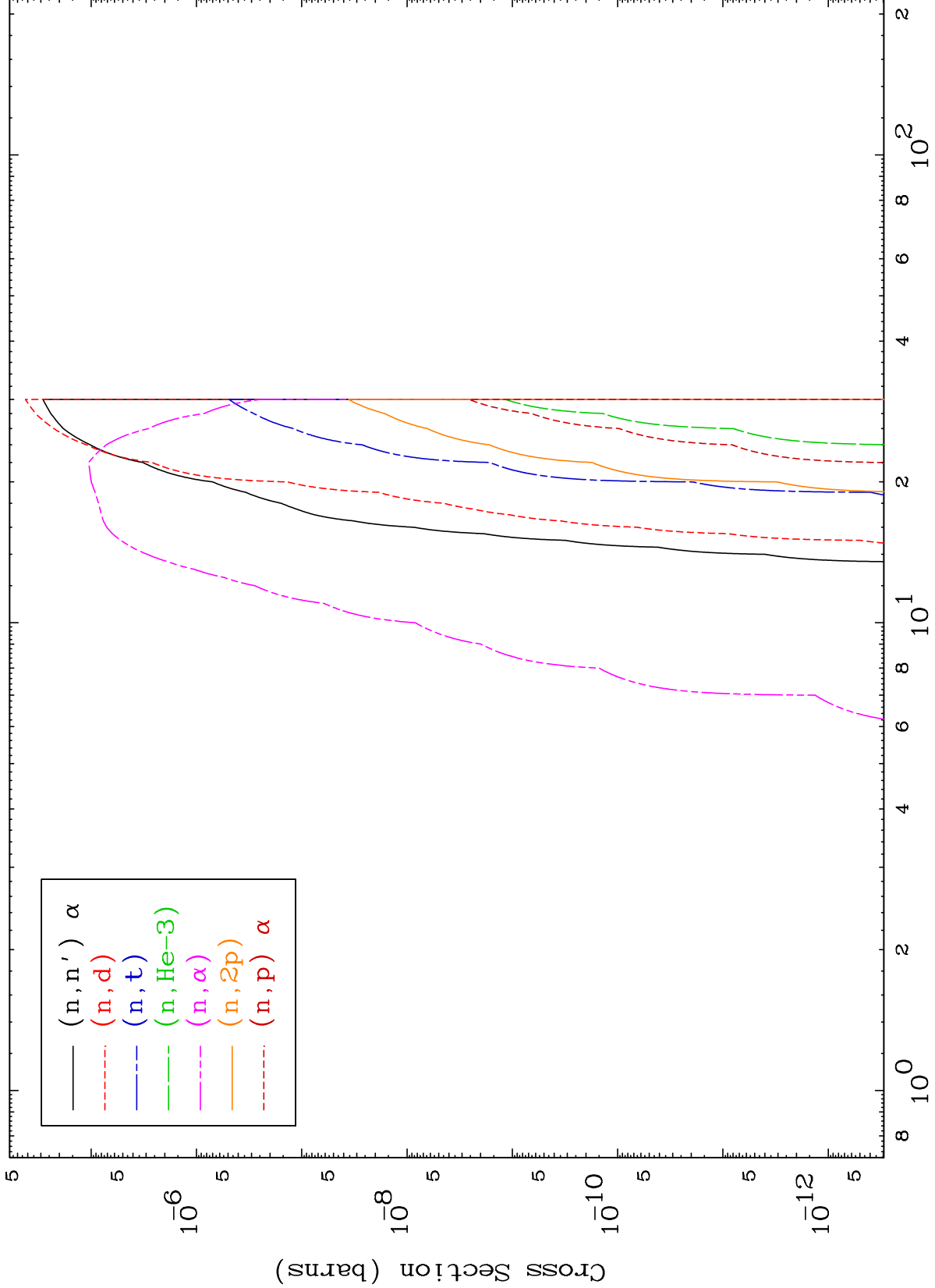
58-Ce-139m



MAT 5835

Photon Charged Particle  
0 Kelvin Cross Sections

58-Ce-139m



5

Incident Energy (MeV)

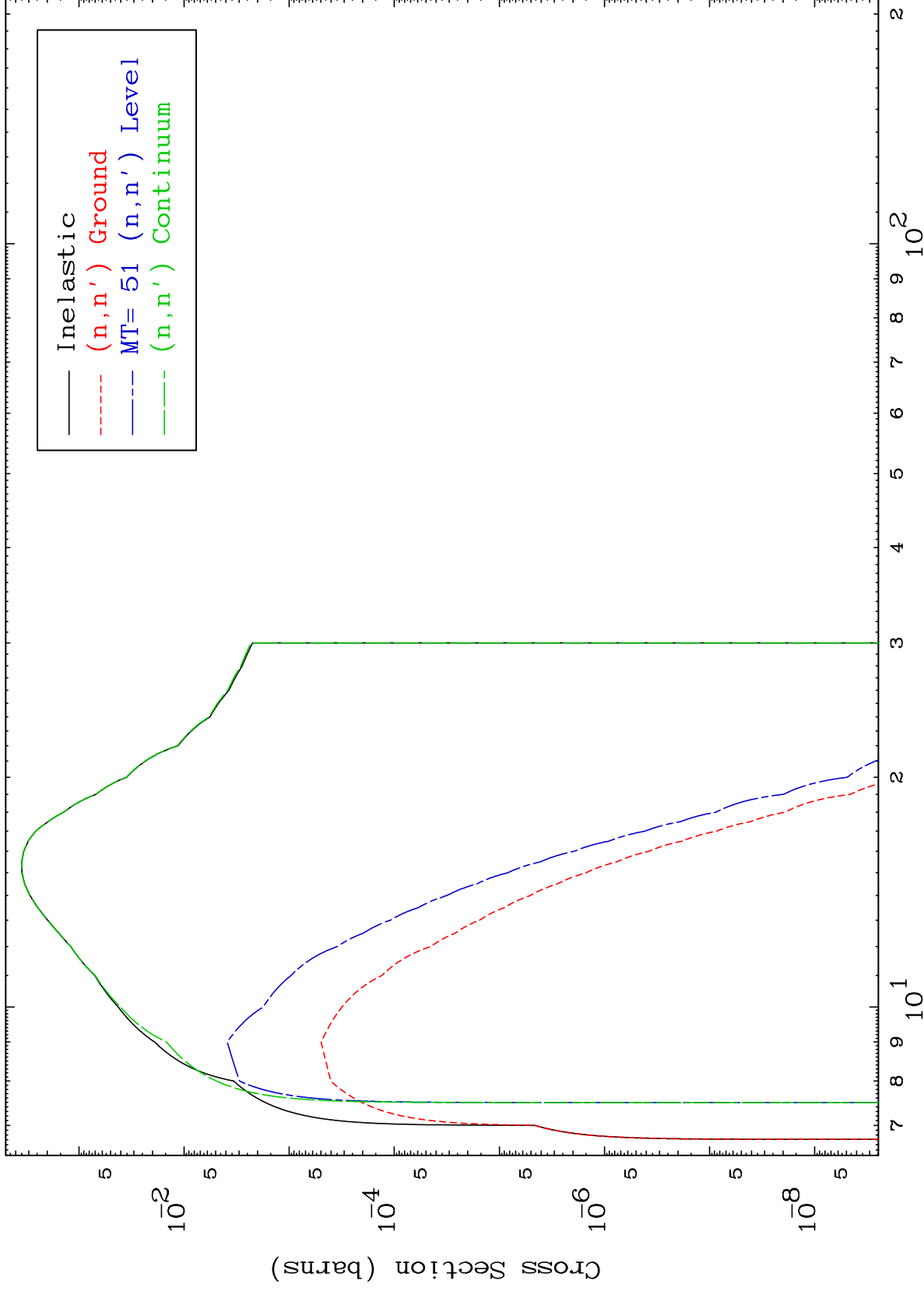
58-Ce-139m

MAT 5835

( $\gamma, n'$ ) Levels

58-Ce-139m

0 Kelvin Cross Sections



6

Incident Energy (MeV)

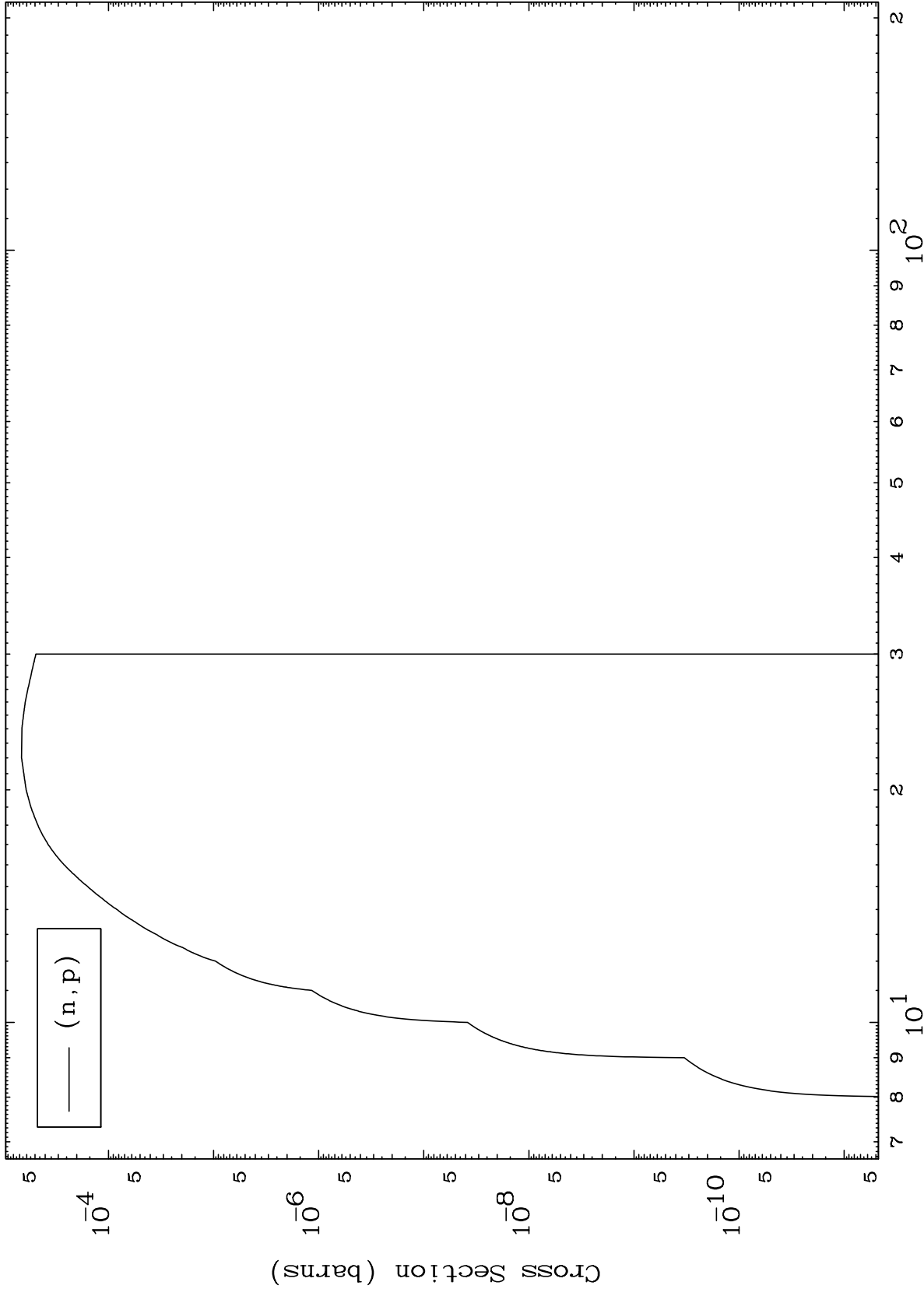
58-Ce-139m

MAT 5835

( $\gamma, p$ ) Levels

58-Ce-139m

0 Kelvin Cross Sections



7

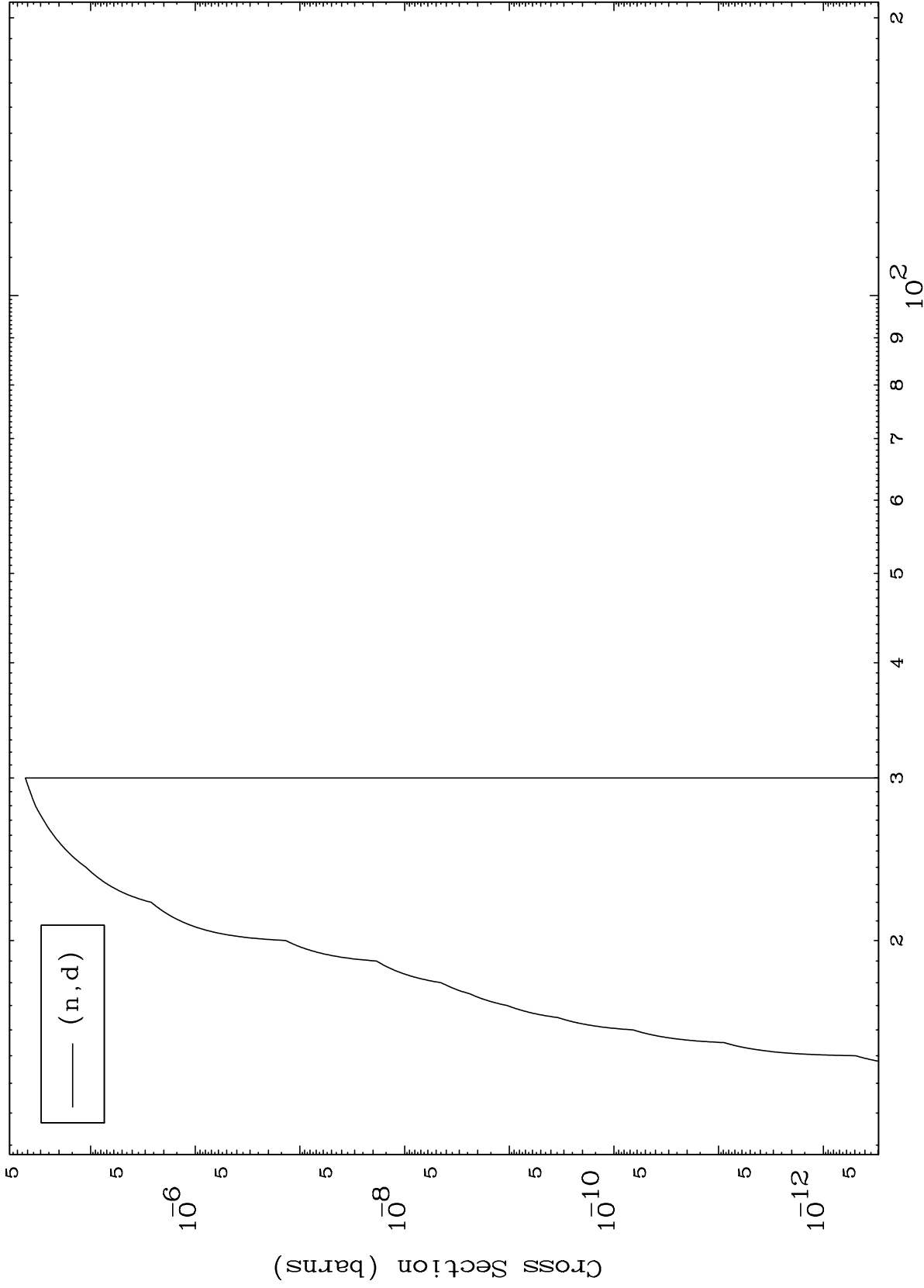
Incident Energy (MeV)

58-Ce-139m

MAT 5835

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

58-Ce-139m



8

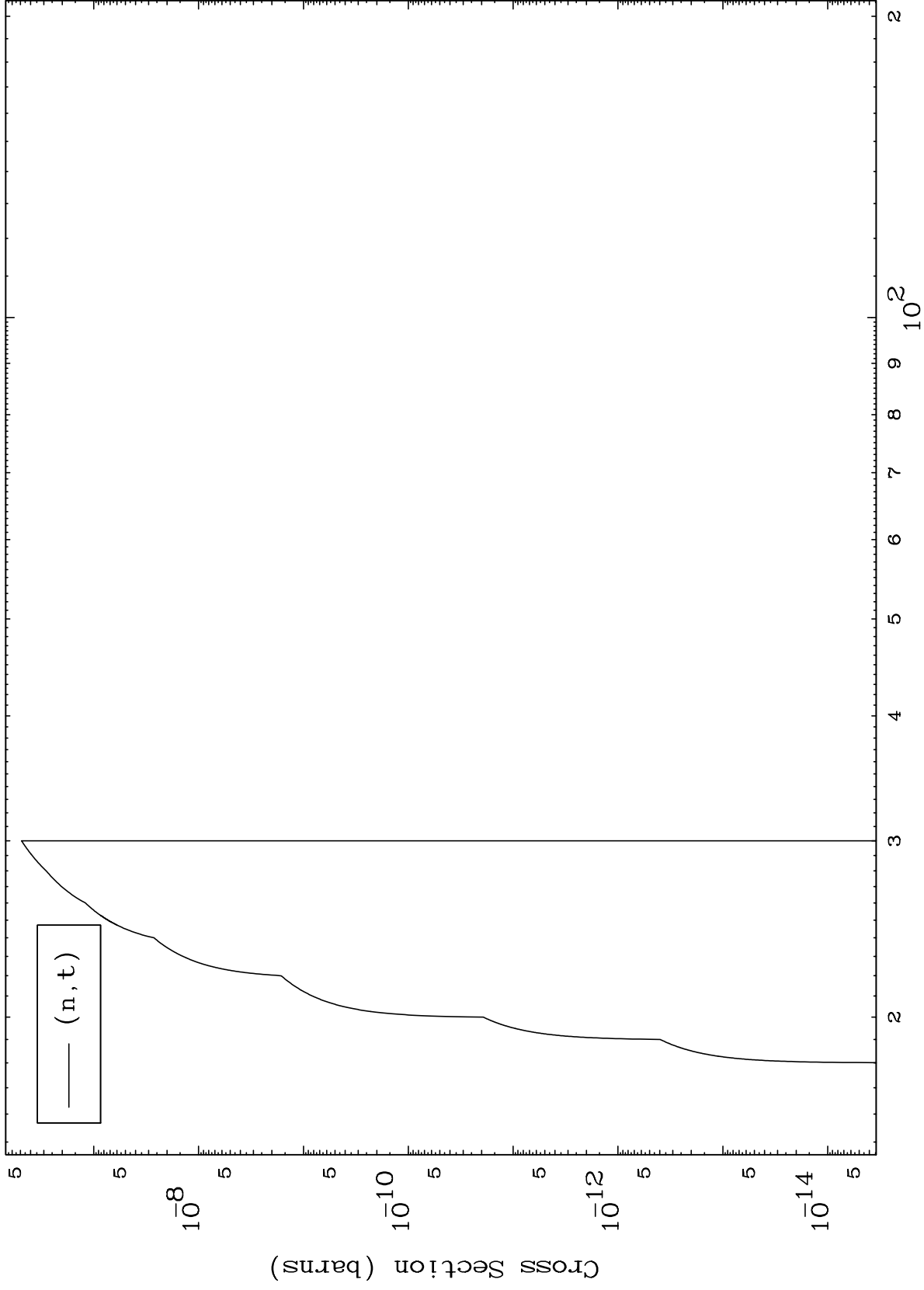
Incident Energy (MeV)

58-Ce-139m

MAT 5835

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

58-Ce-139m



9

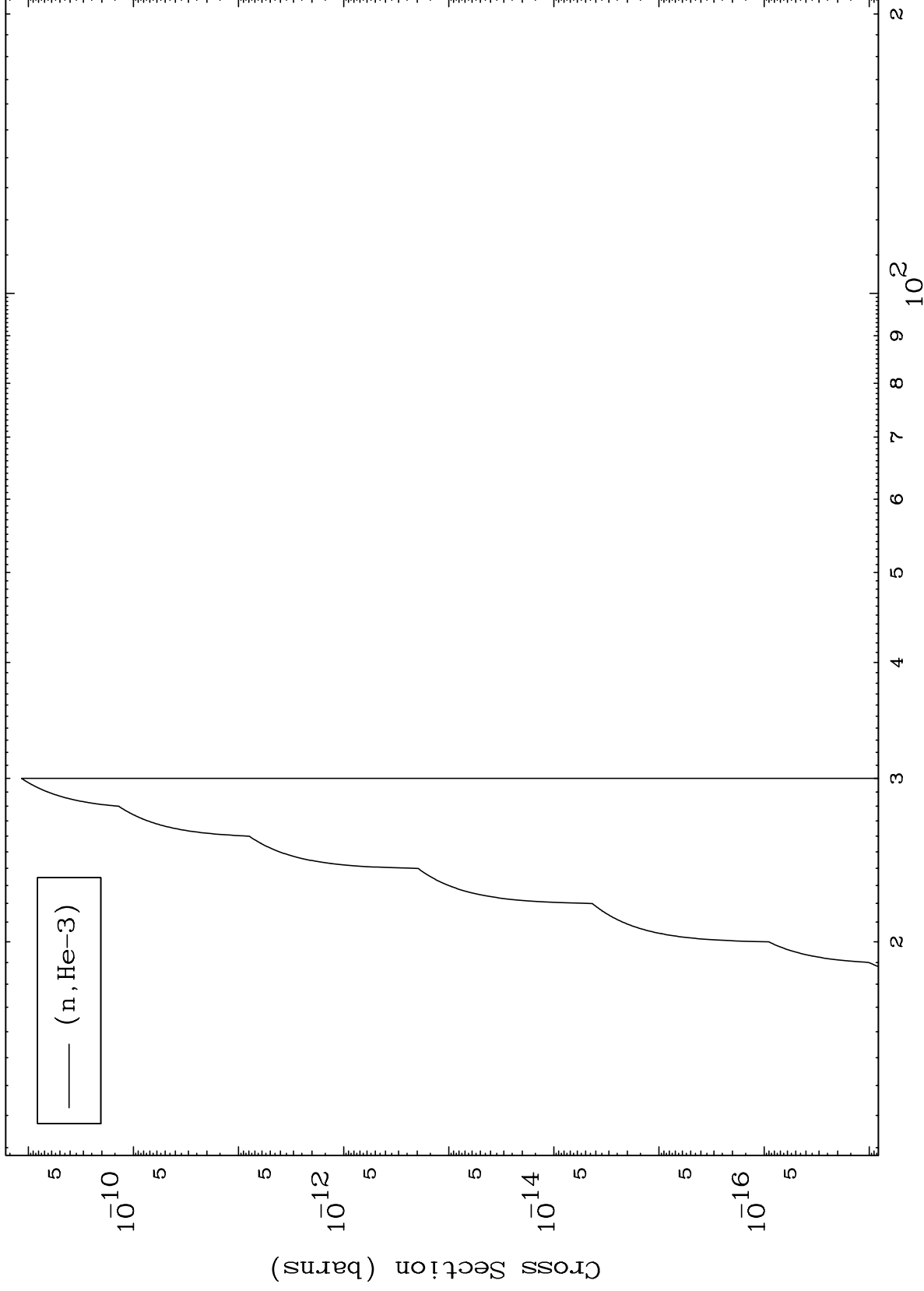
Incident Energy (MeV)

58-Ce-139m

MAT 5835

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

58-Ce-139m



10

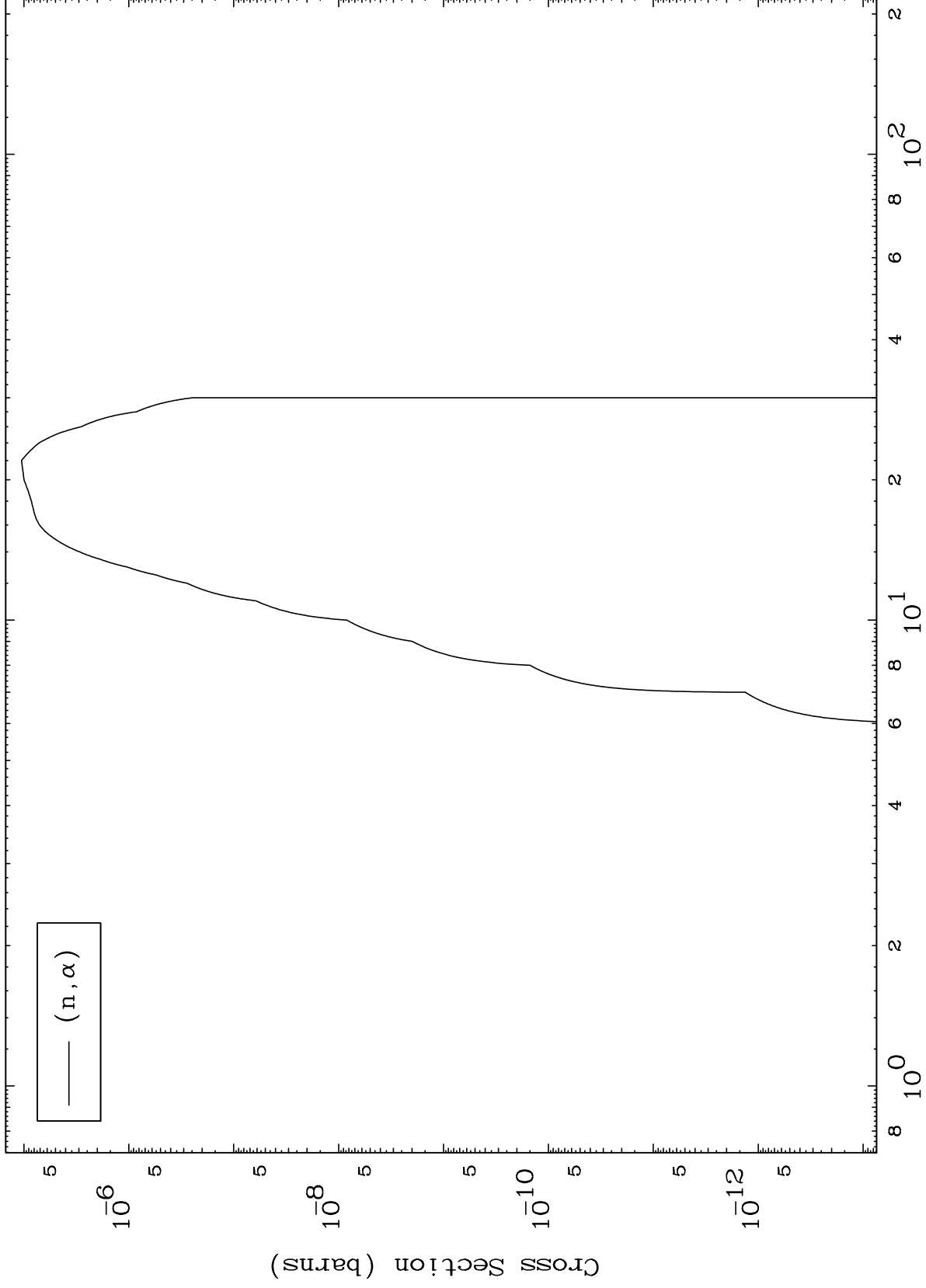
Incident Energy (MeV)

58-Ce-139m

MAT 5835

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

58-Ce-139m



11

Incident Energy (MeV)

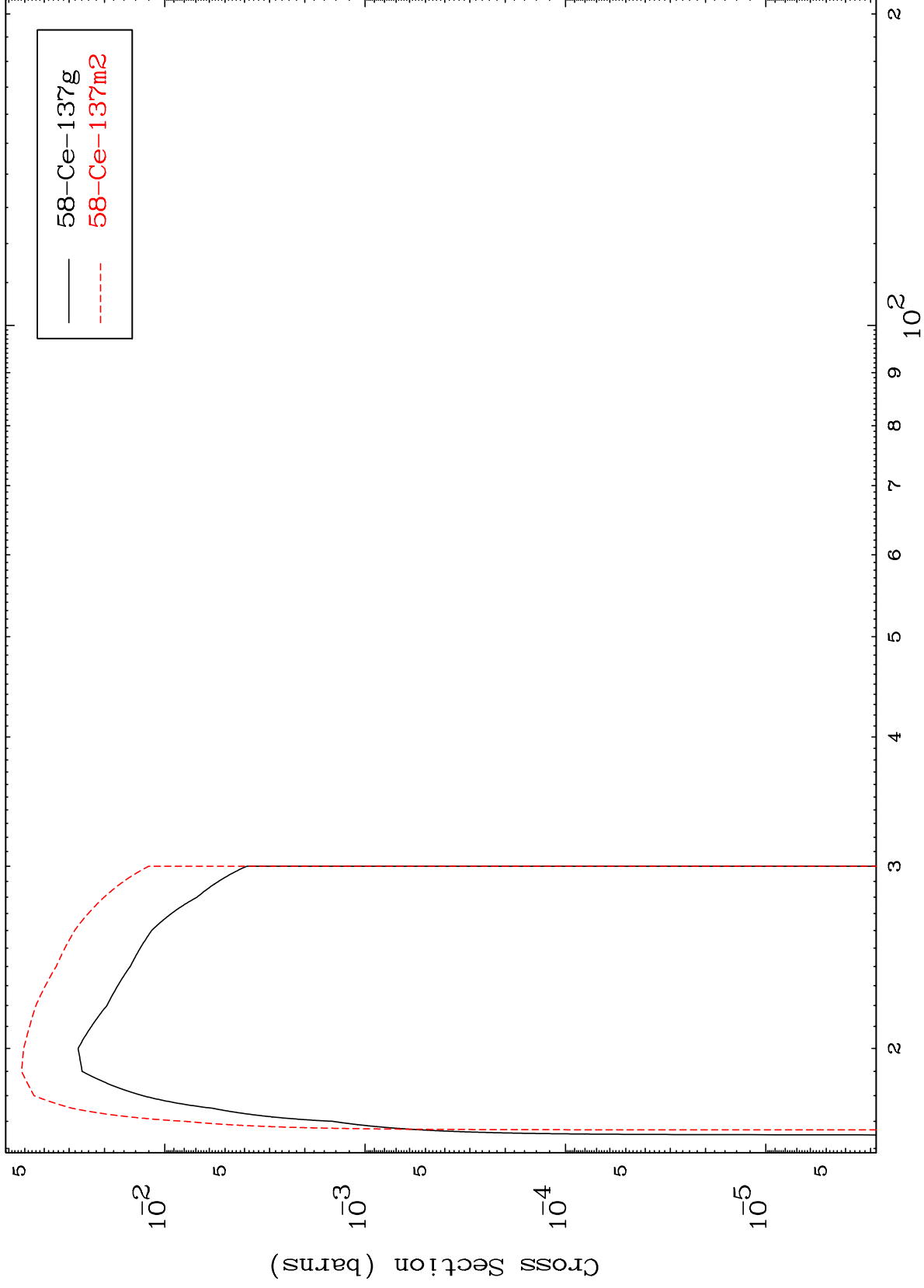
58-Ce-139m

MAT 5835

(n,2n)

58-Ce-139m

Radionuclide Production Cross Section



12

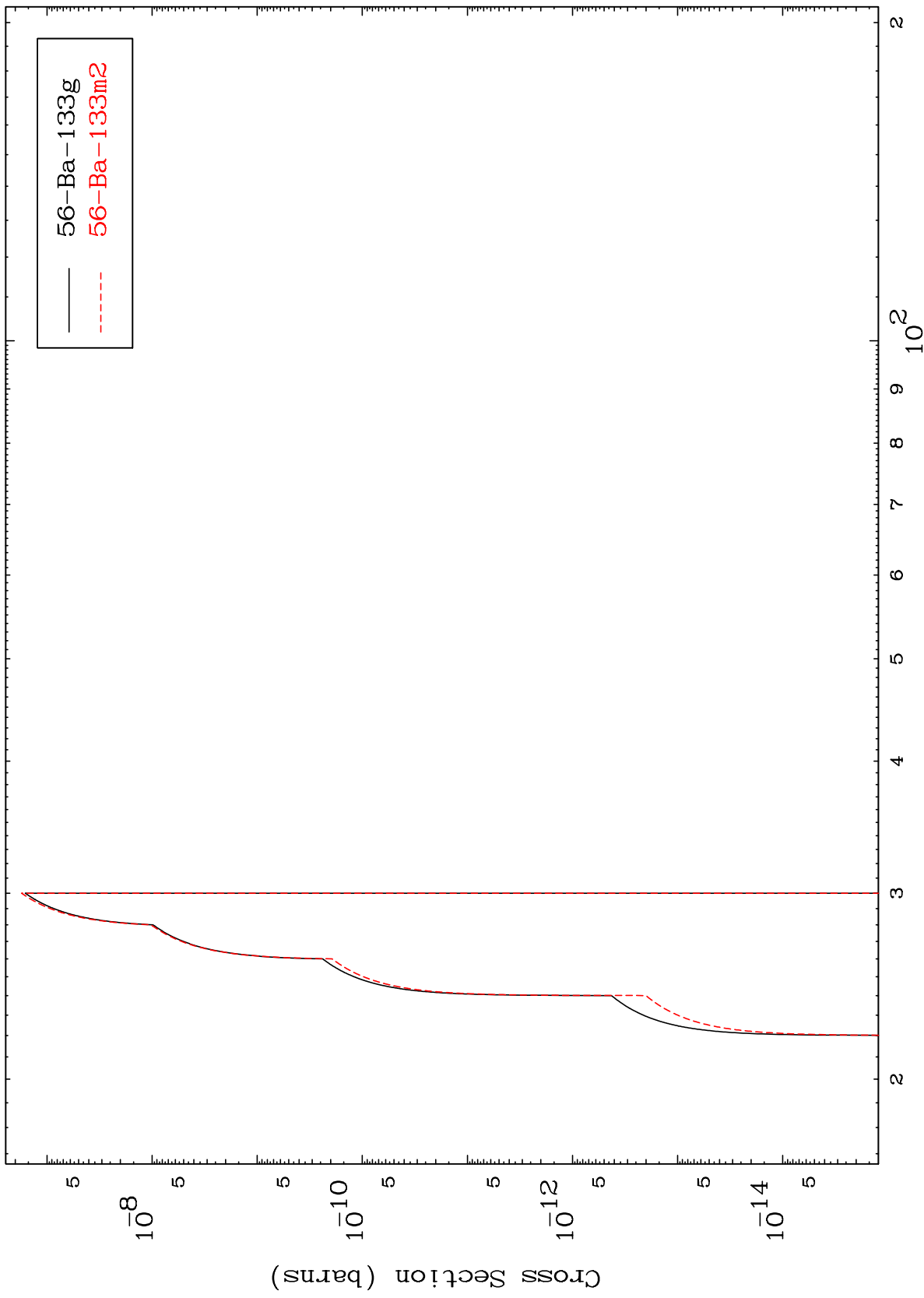
Incident Energy (MeV)

58-Ce-139m

MAT 5835

58-Ce-139m

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



13

Incident Energy (MeV)

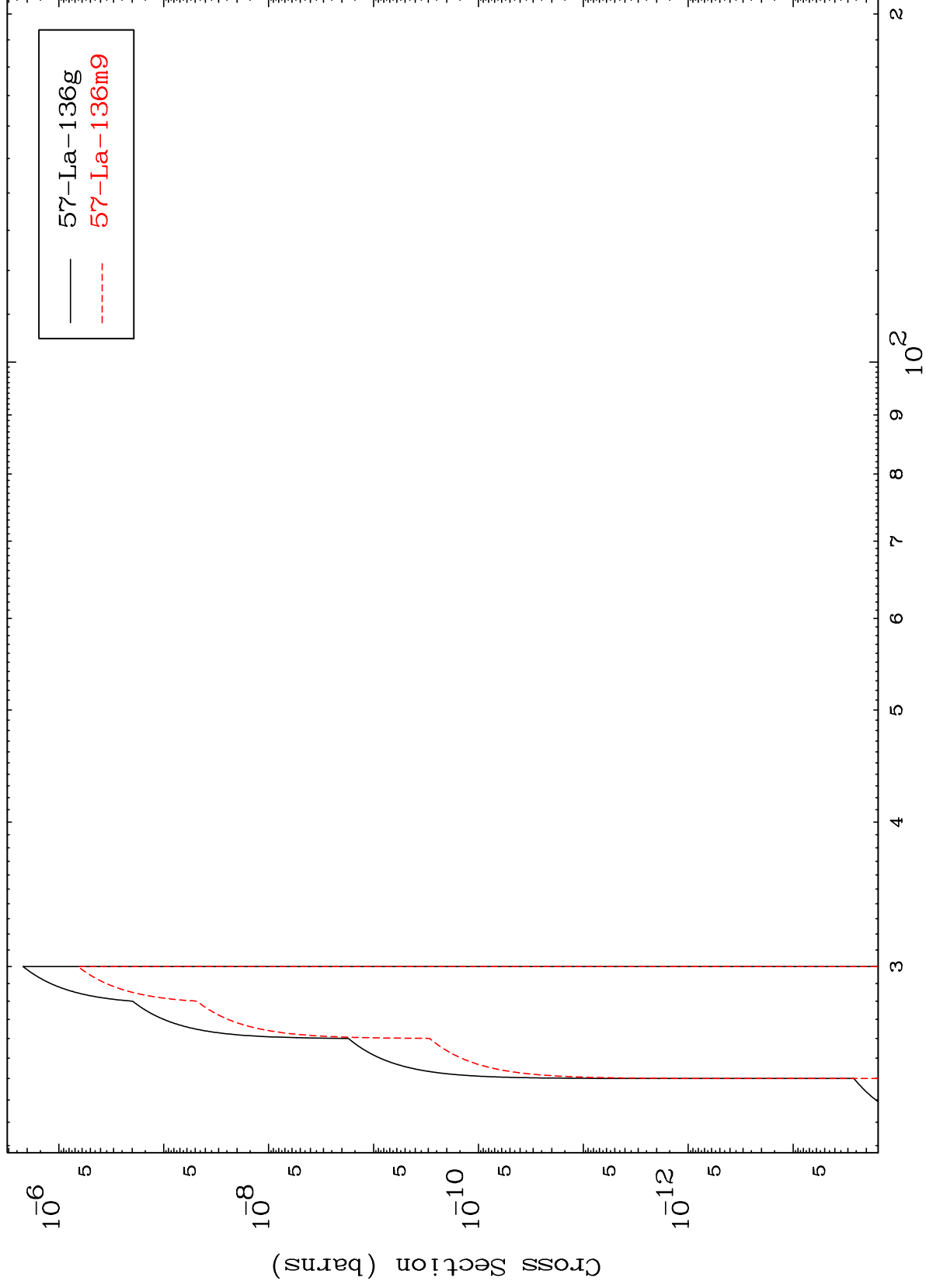
58-Ce-139m

MAT 5835

(n,n') d

58-Ce-139m

Radionuclide Production Cross Section



14

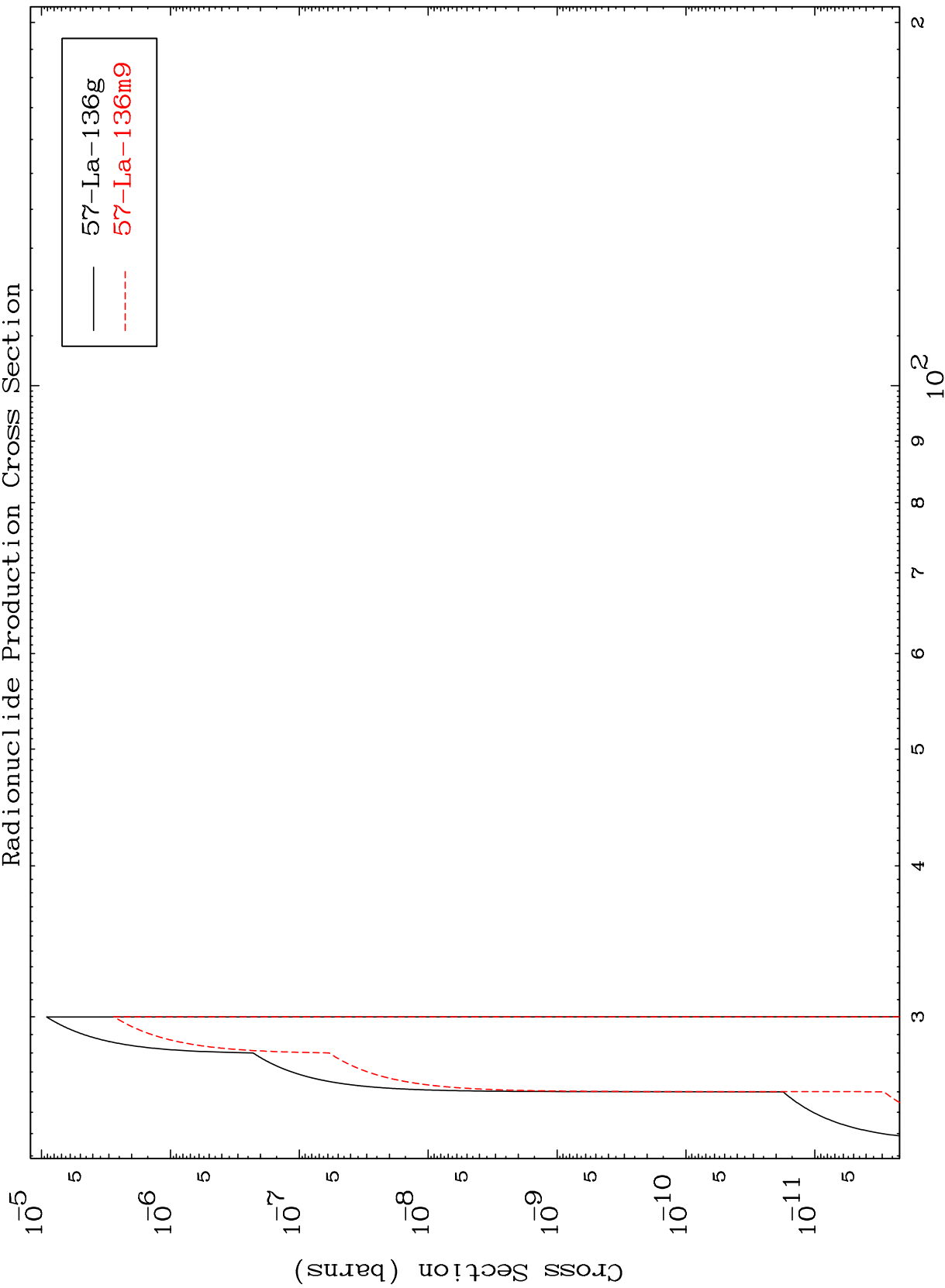
Incident Energy (MeV)

58-Ce-139m

MAT 5835

58-Ce-139m

(n,2n) p  
Radionuclide Production Cross Section



58-Ce-139m

Incident Energy (MeV)

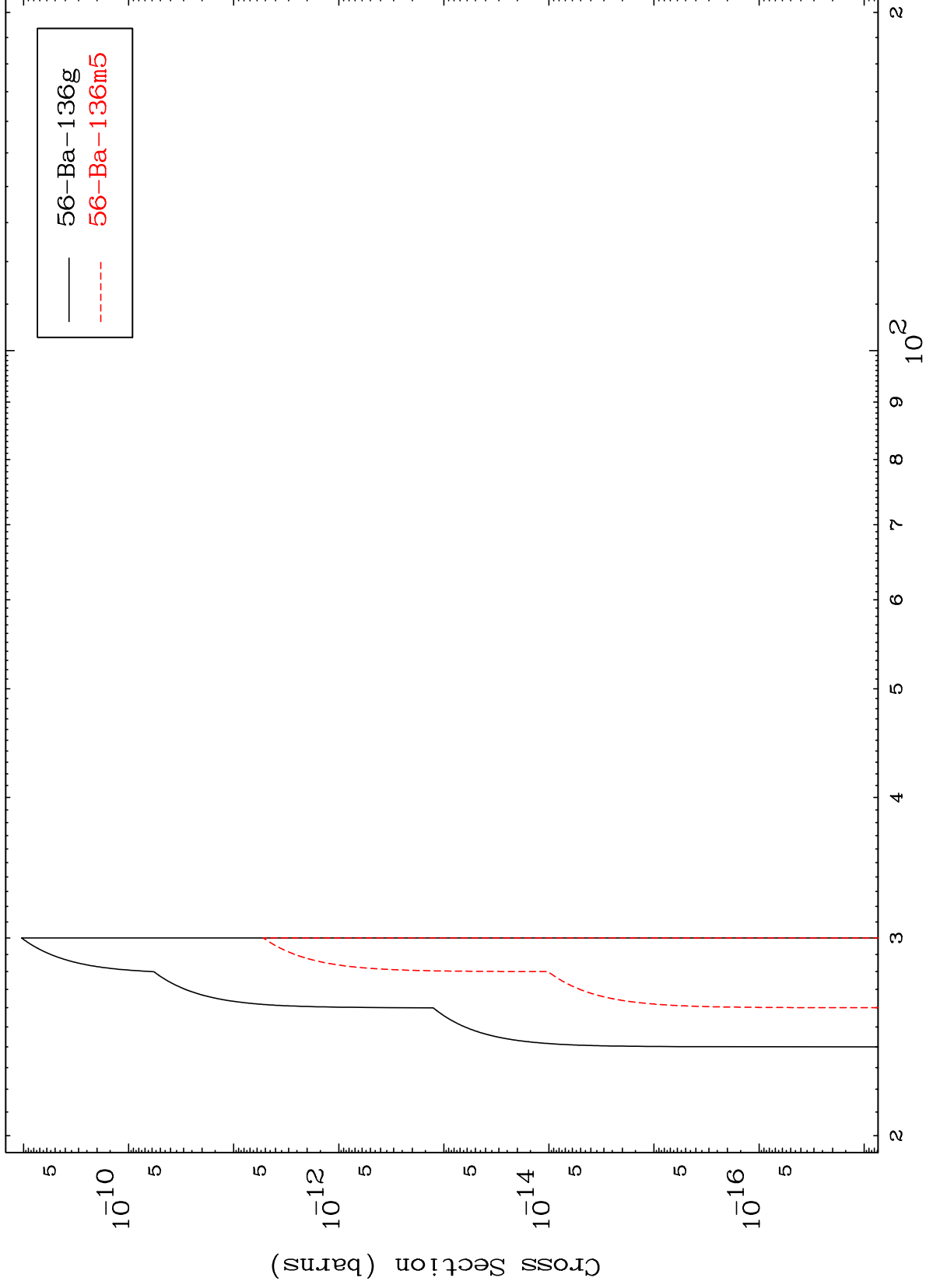
15

MAT 5835

(n,2n) p

58-Ce-139m

Radionuclide Production Cross Section



16

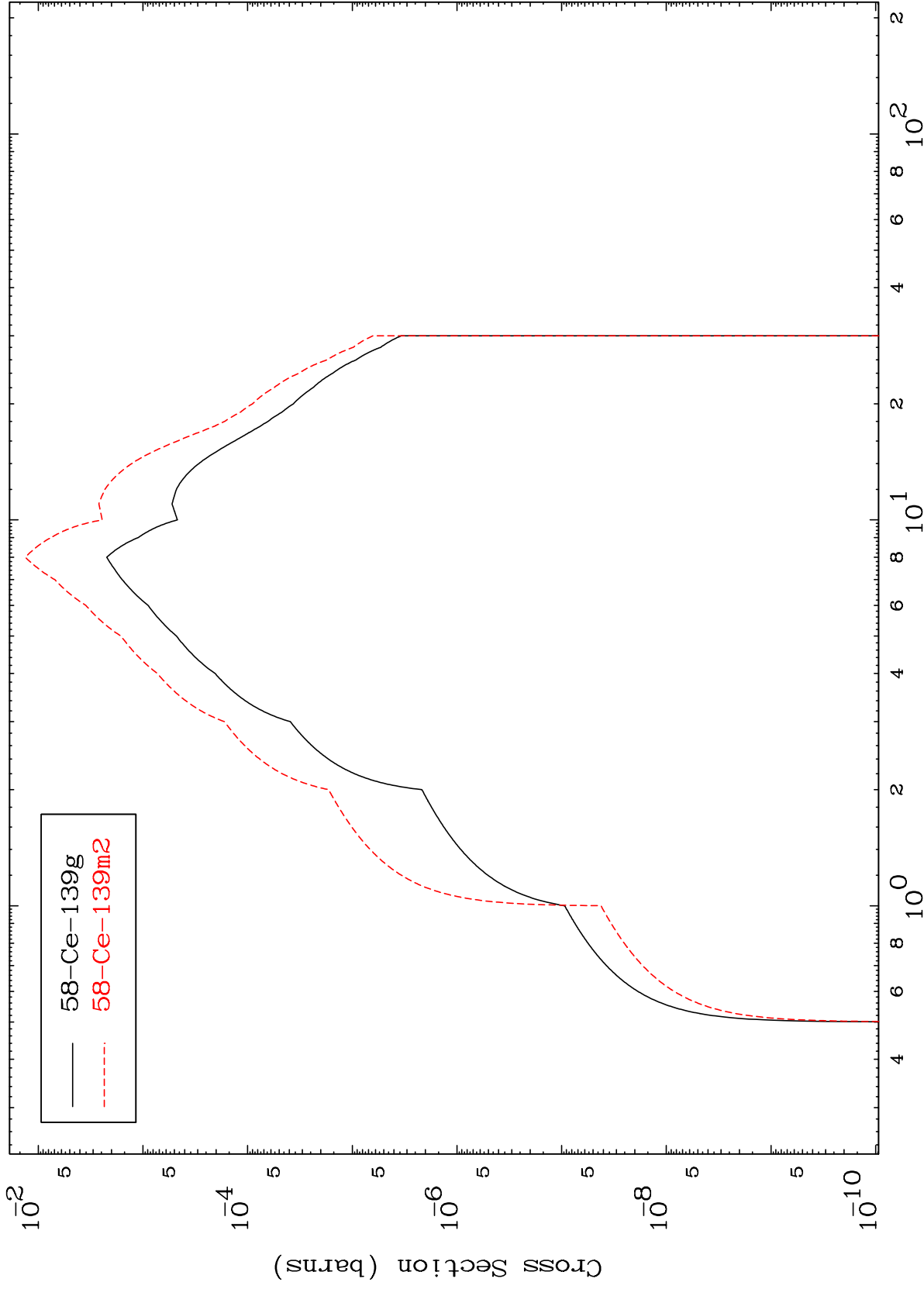
Incident Energy (MeV)

58-Ce-139m

MAT 5835

58-Ce-139m

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

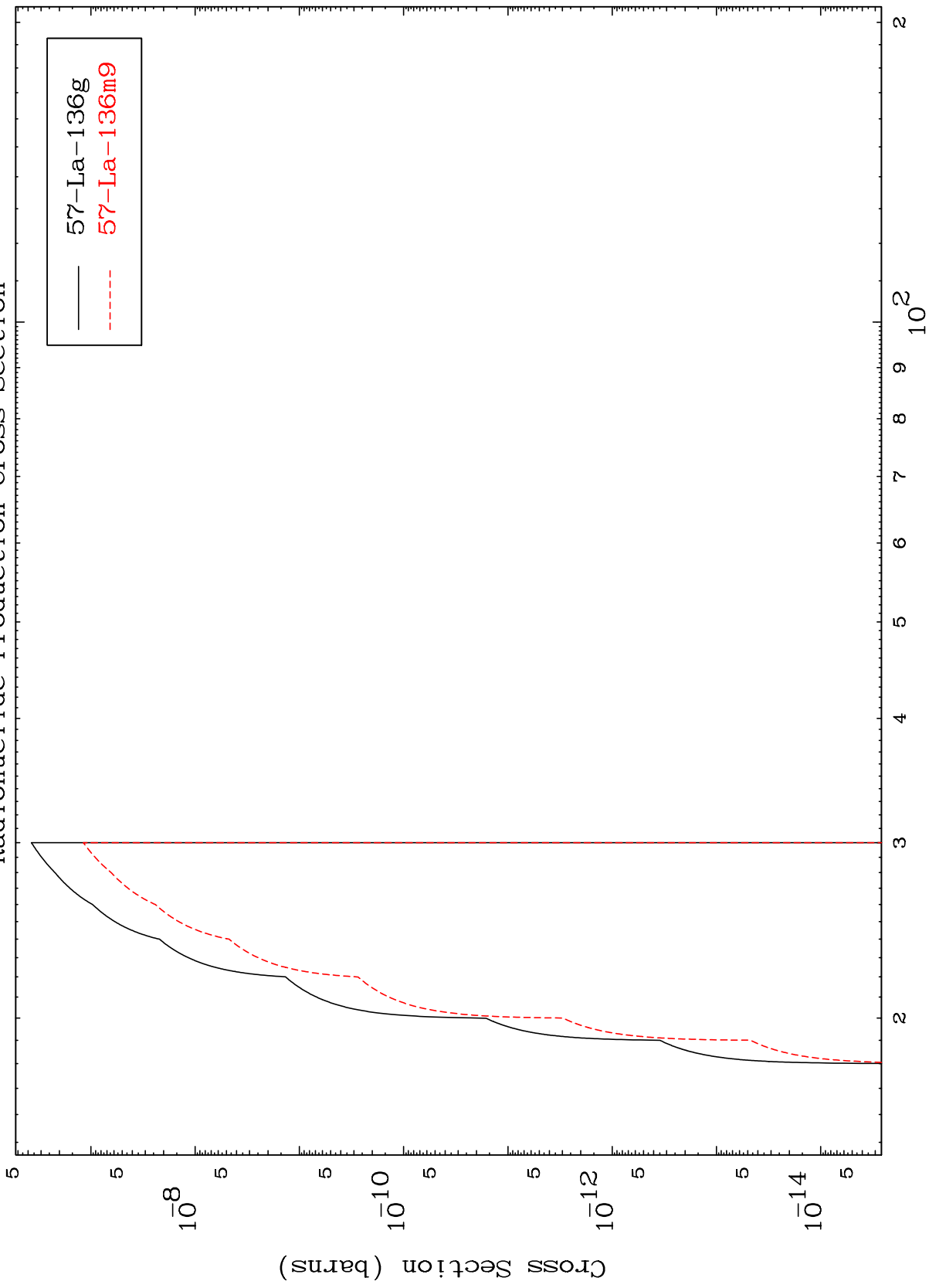


MAT 5835

(n, t)

58-Ce-139m

Radionuclide Production Cross Section



18

Incident Energy (MeV)

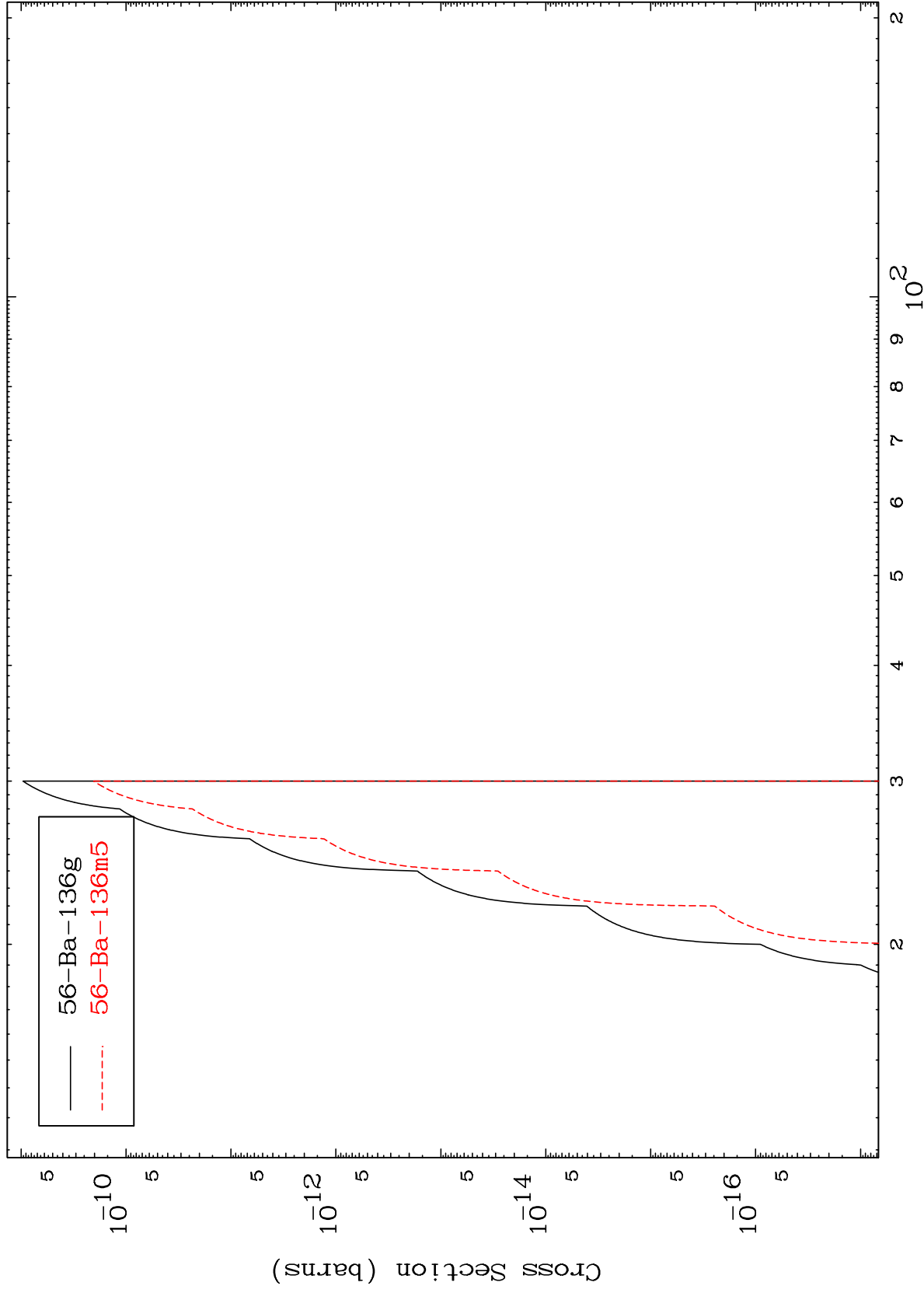
58-Ce-139m

MAT 5835

(n,He-3)

58-Ce-139m

Radionuclide Production Cross Section



19

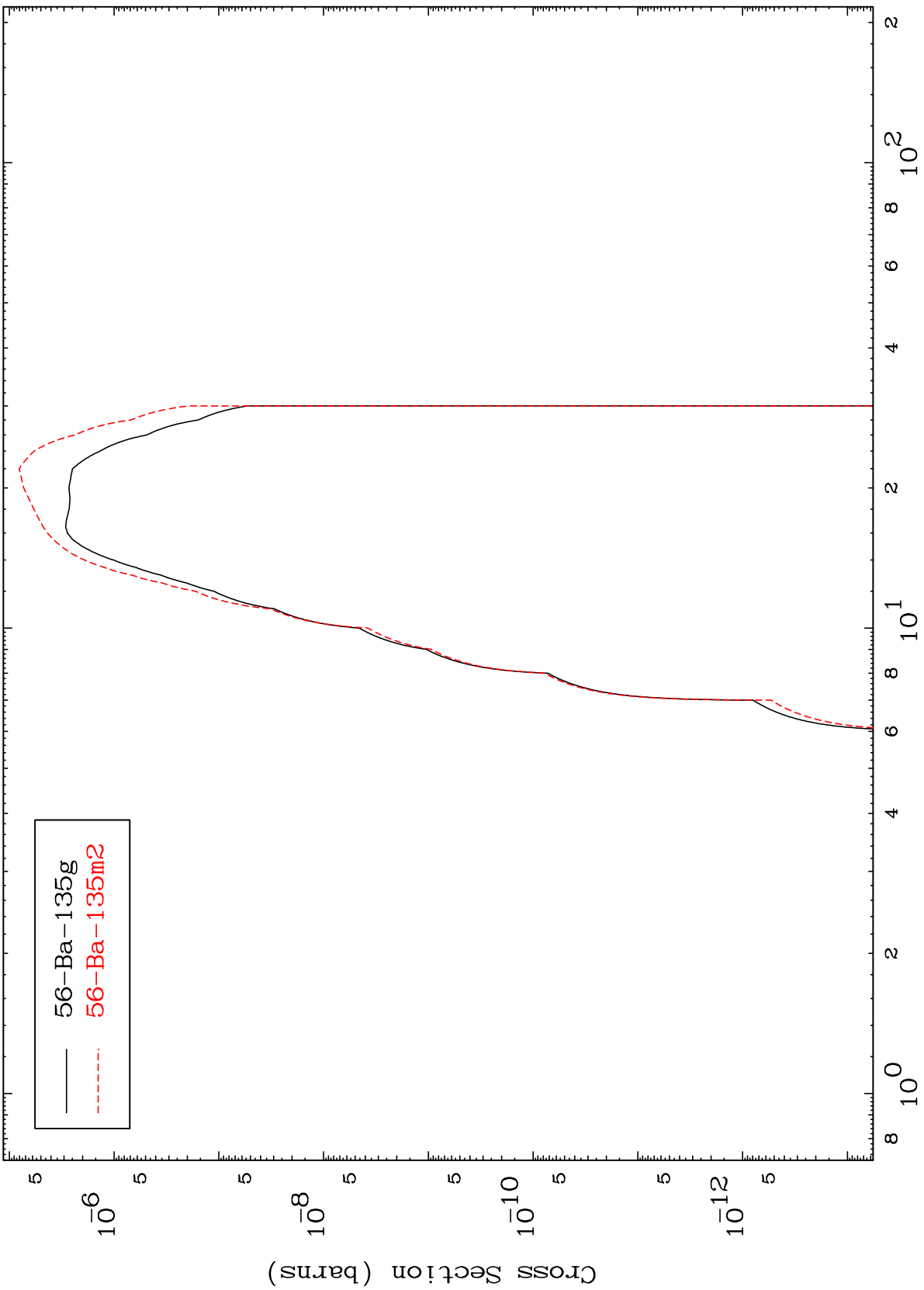
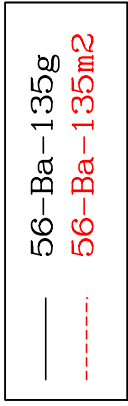
Incident Energy (MeV)

58-Ce-139m

MAT 5835

58-Ce-139m

Radionuclide Production Cross Section



Incident Energy (MeV)

58-Ce-139m

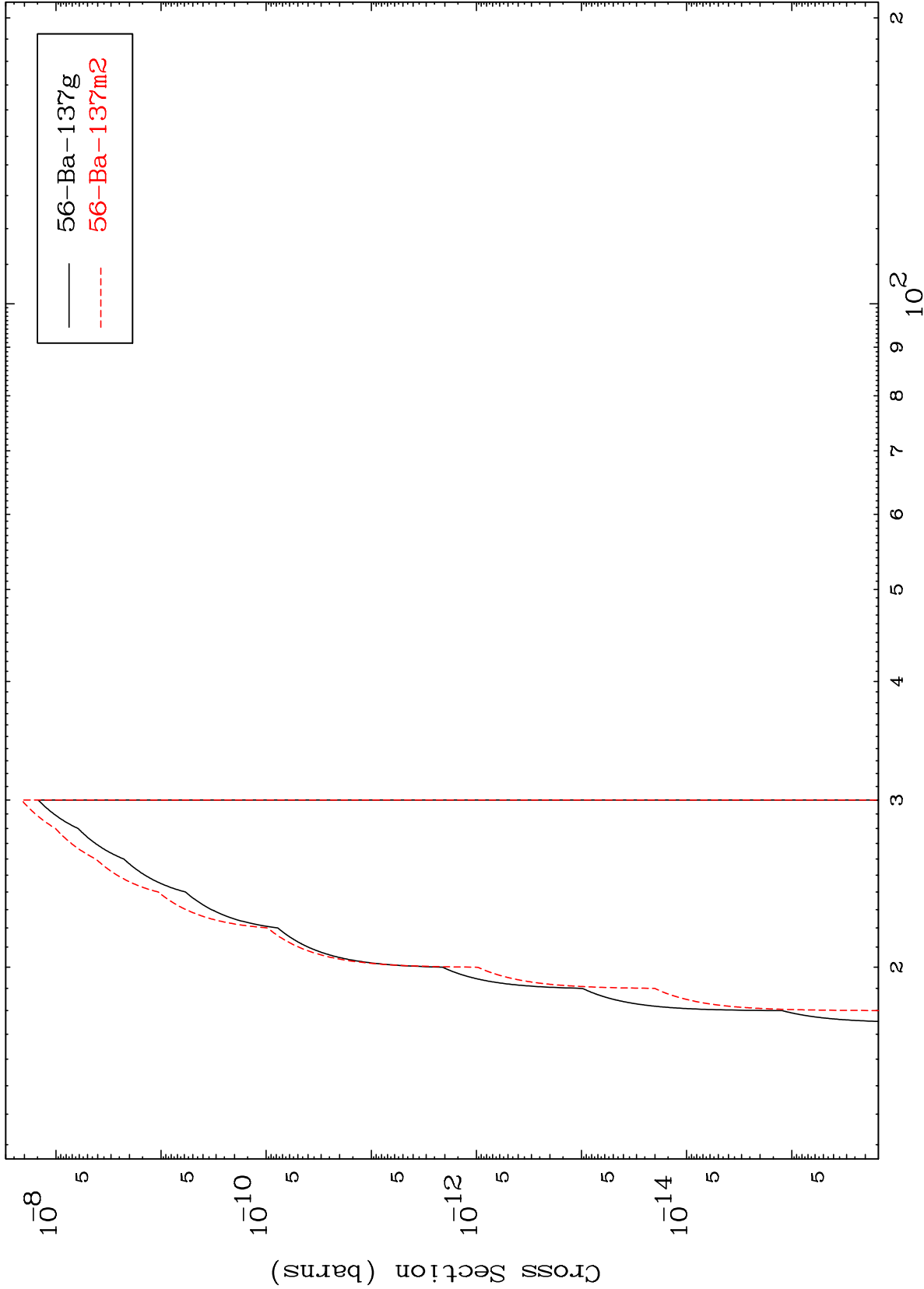
20

MAT 5835

(n,2p)

58-Ce-139m

Radionuclide Production Cross Section

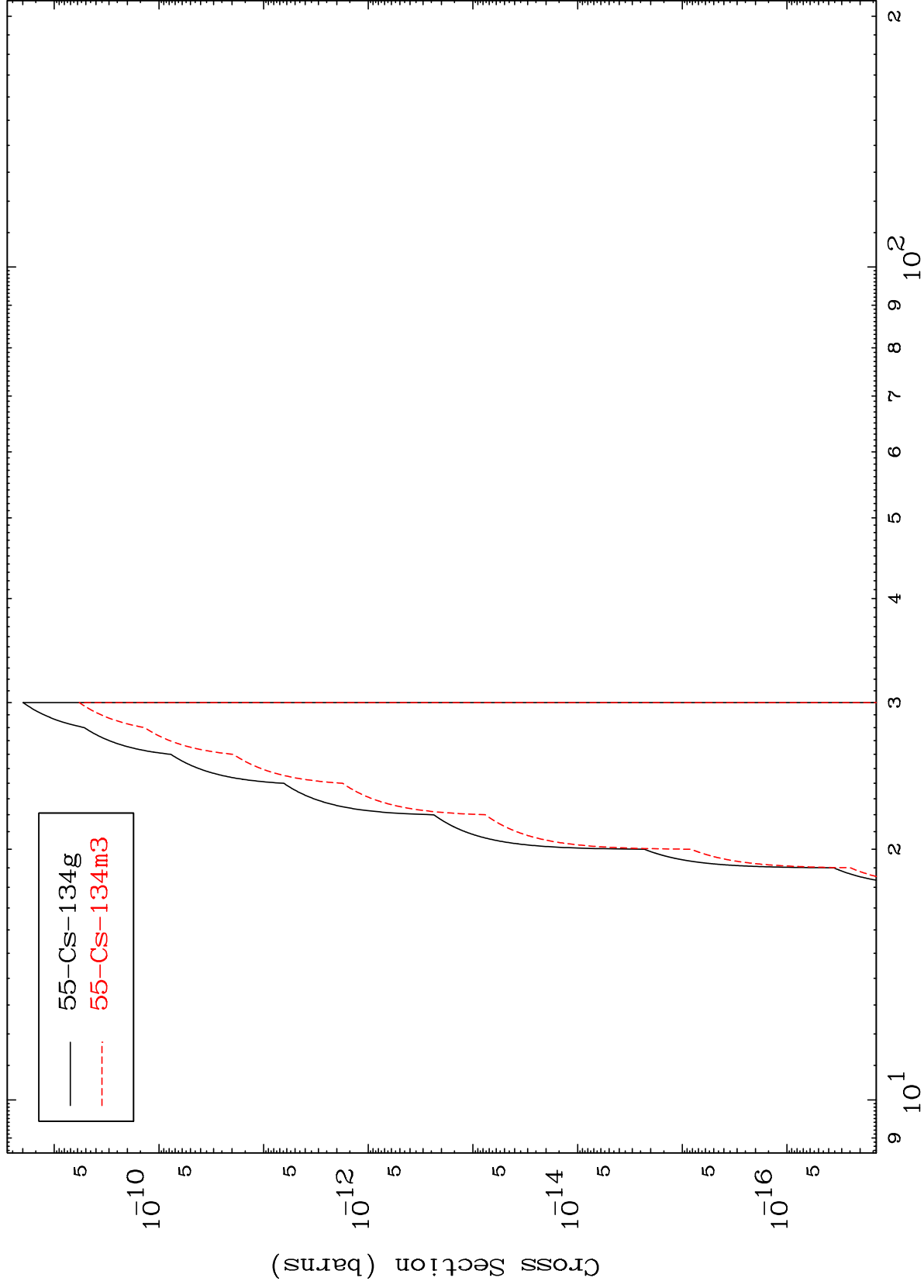


MAT 5835

(n,p)  $\alpha$

58-Ce-139m

Radionuclide Production Cross Section



22

Incident Energy (MeV)

58-Ce-139m