

Program EVALPLOT  
(Version 2021-1)

by

Dermott E. Cullen  
(Present Contact Information)

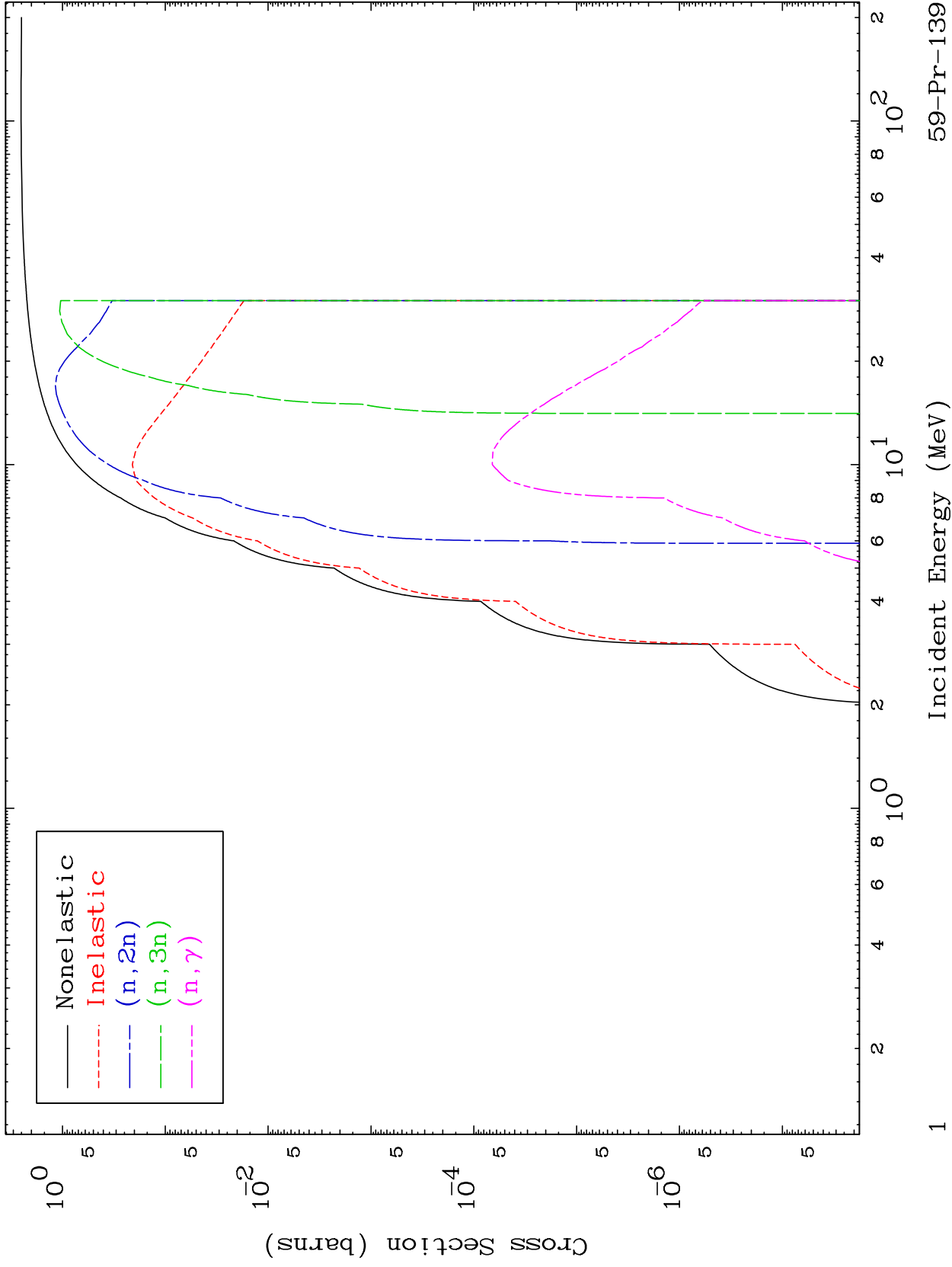
Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550  
U.S.A.

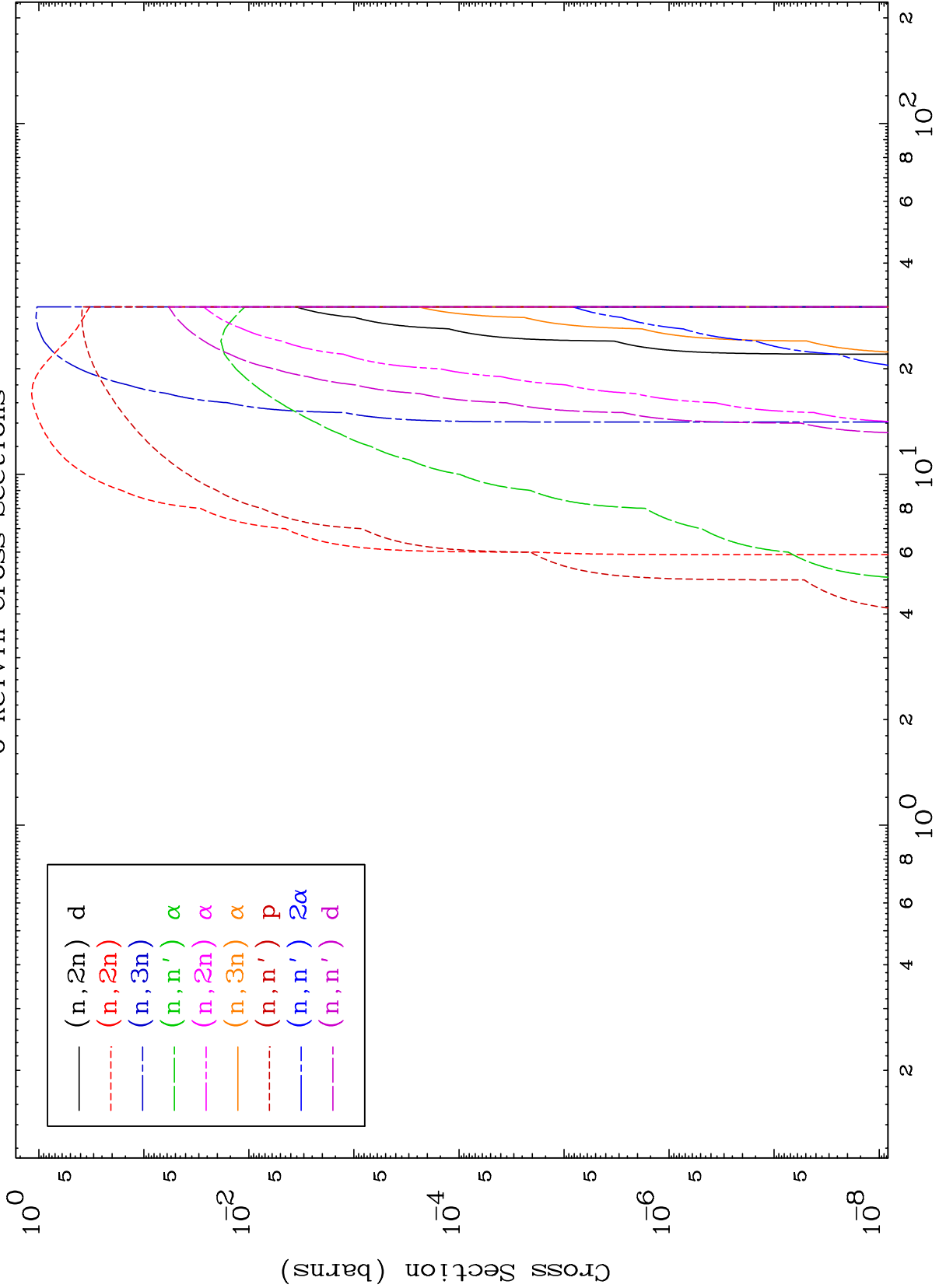
Tele: 925-443-1911

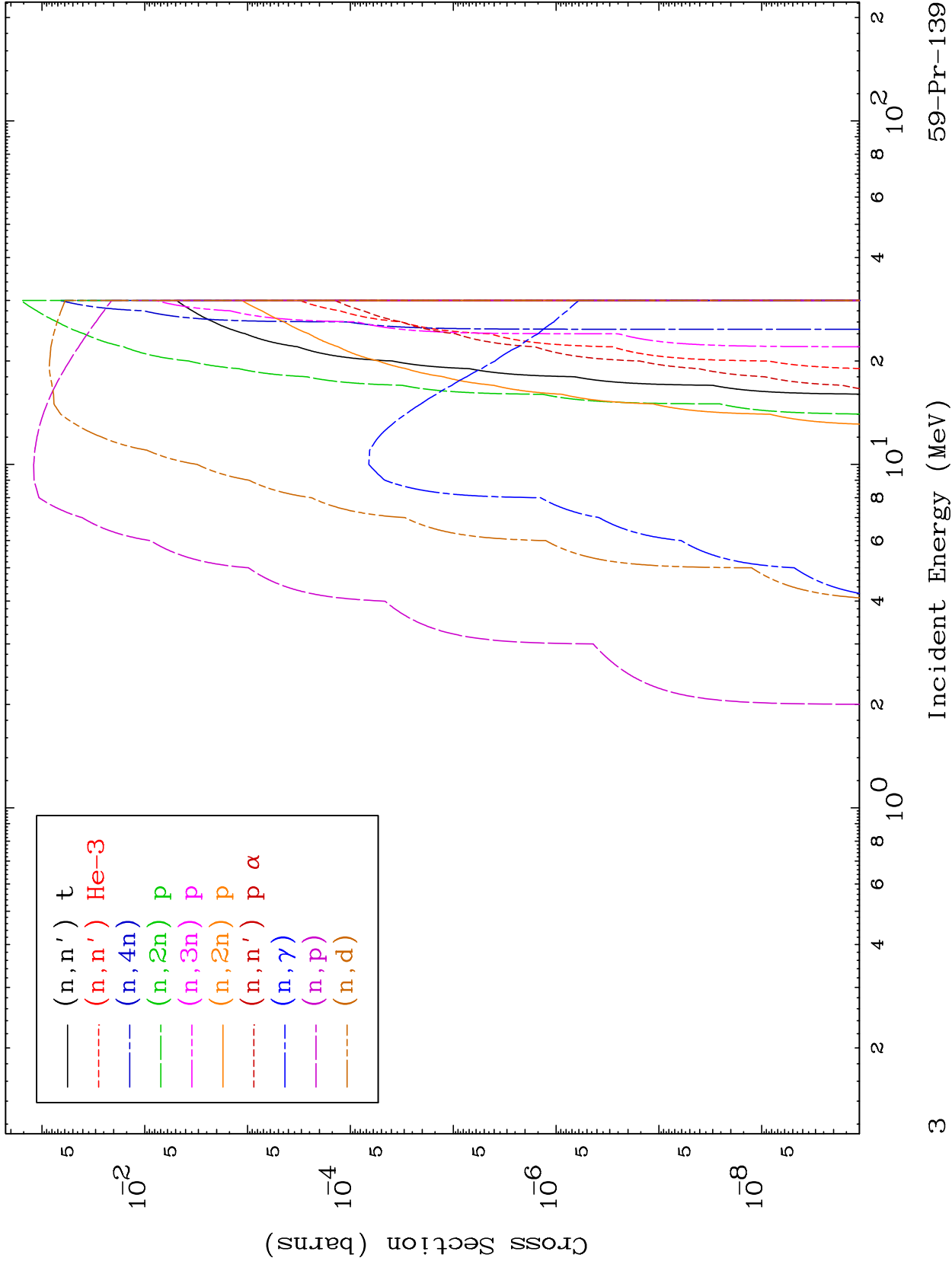
E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)

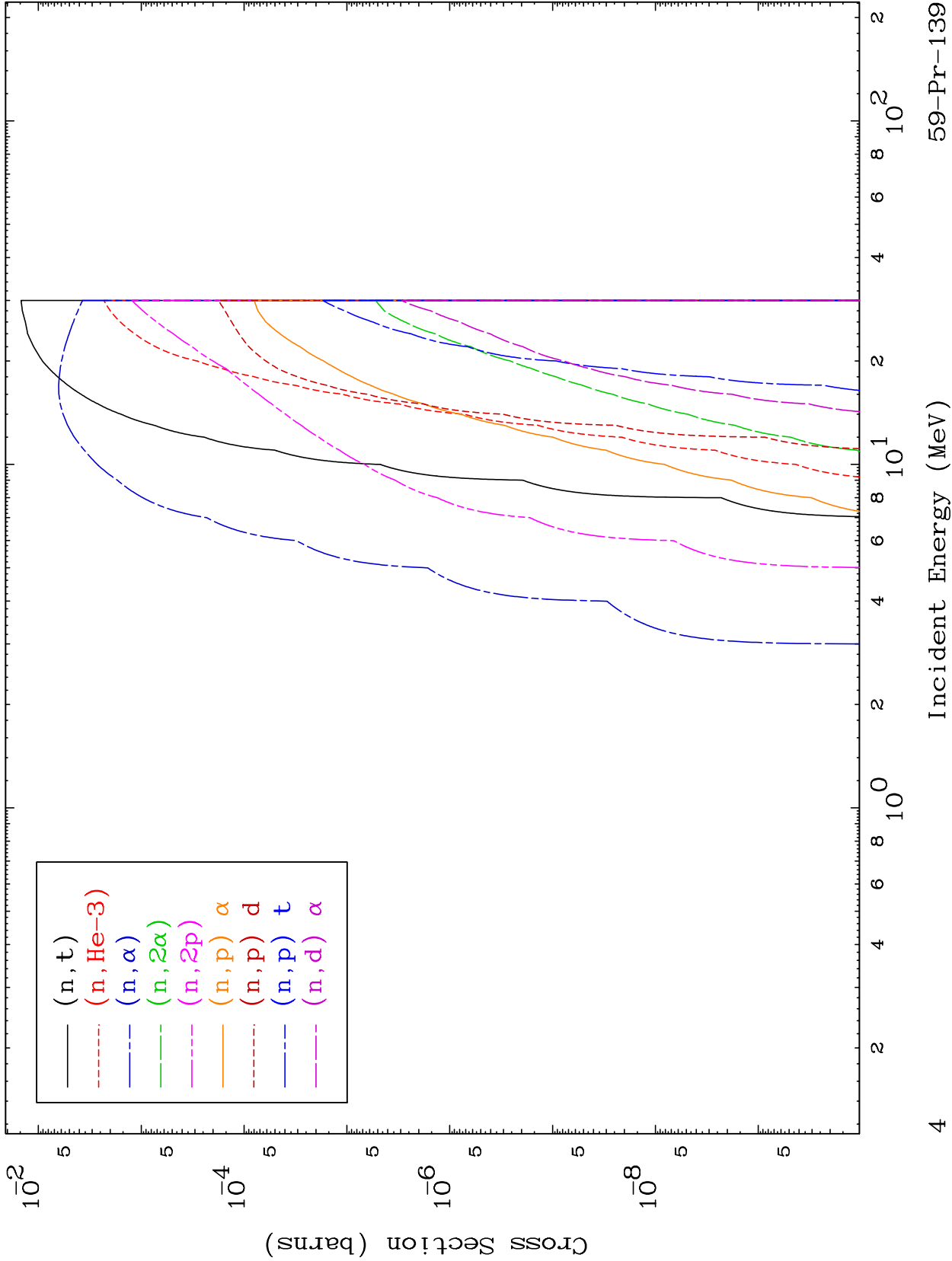
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

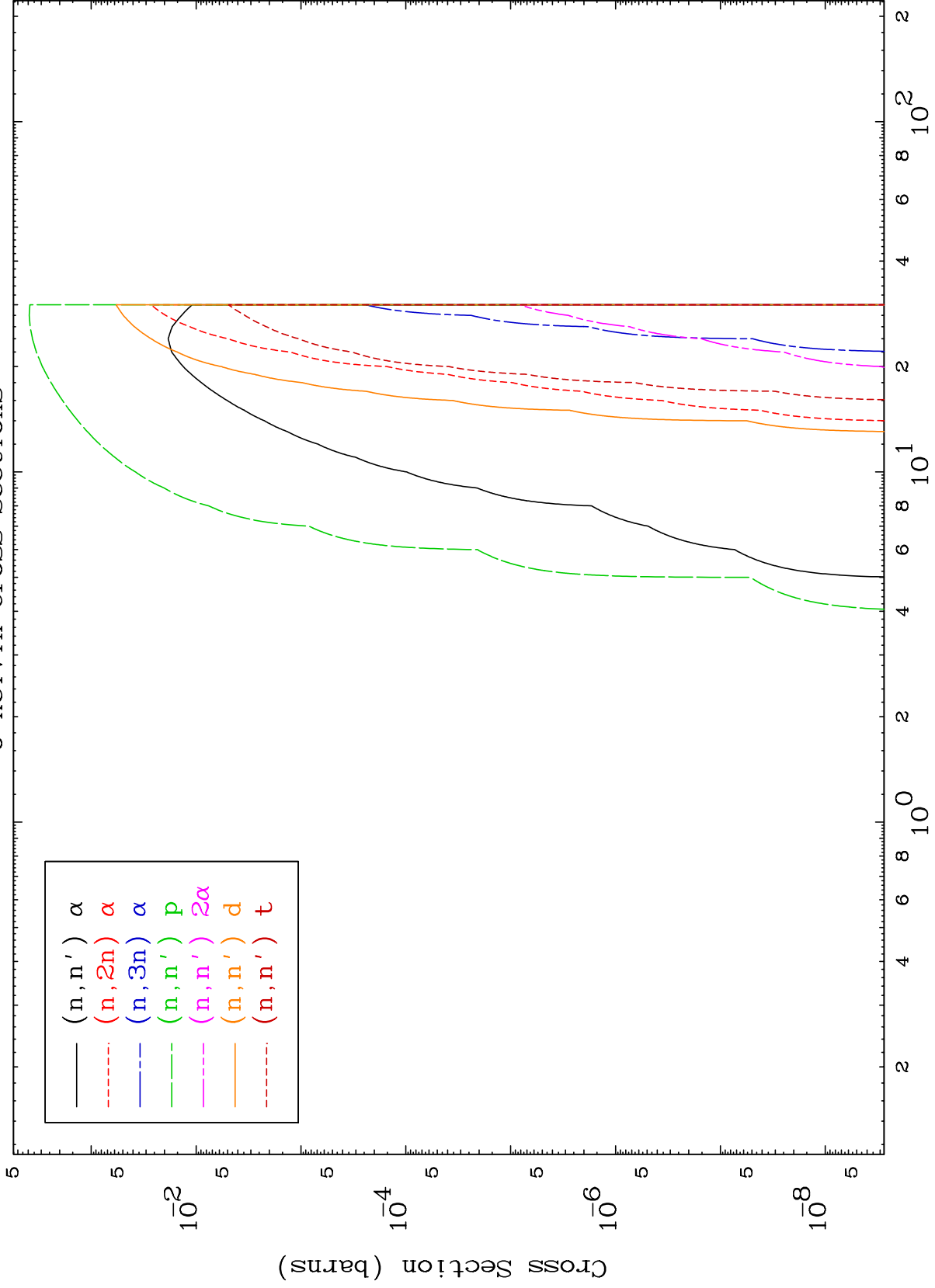
Press Mouse Button to Start

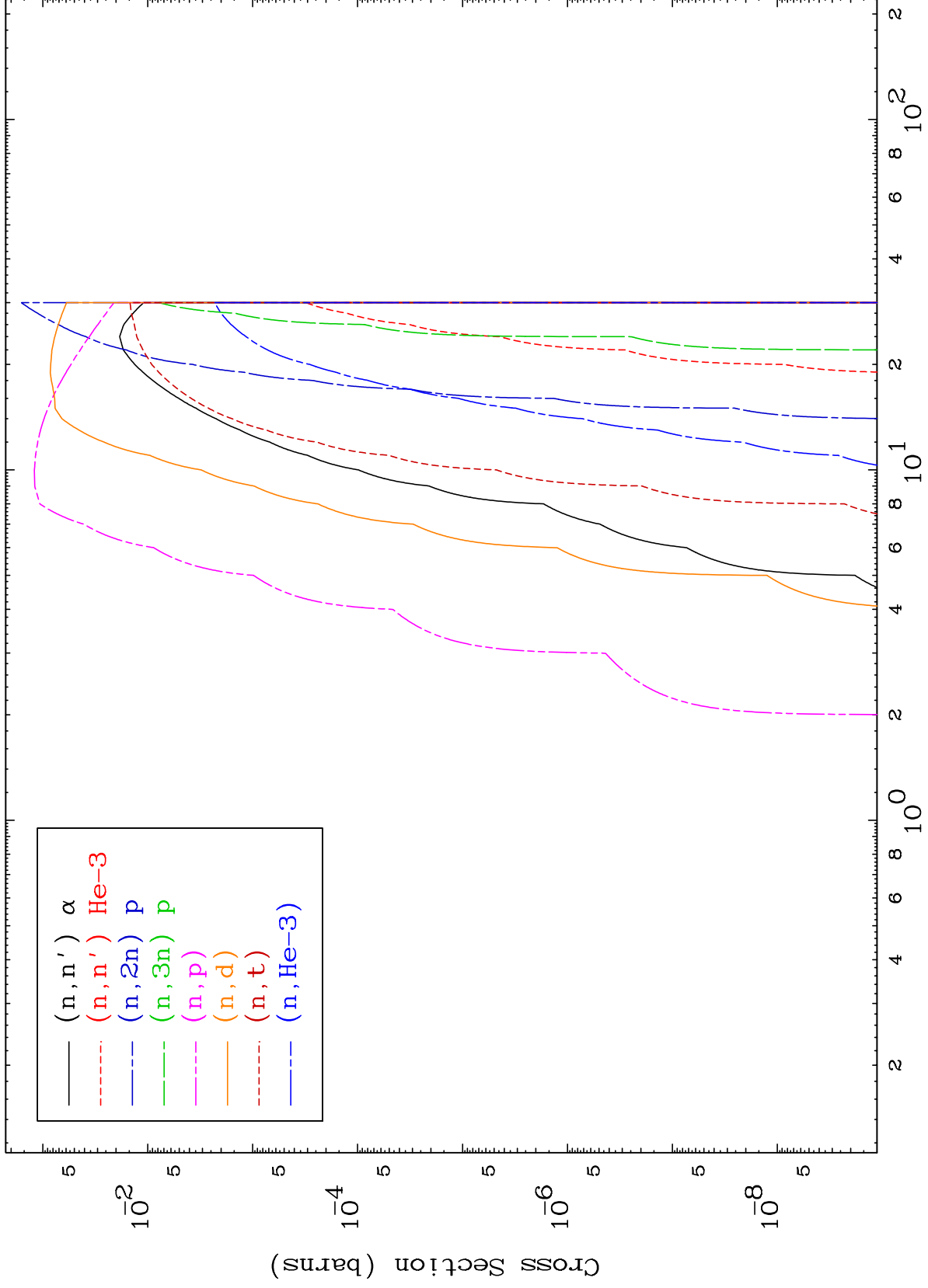


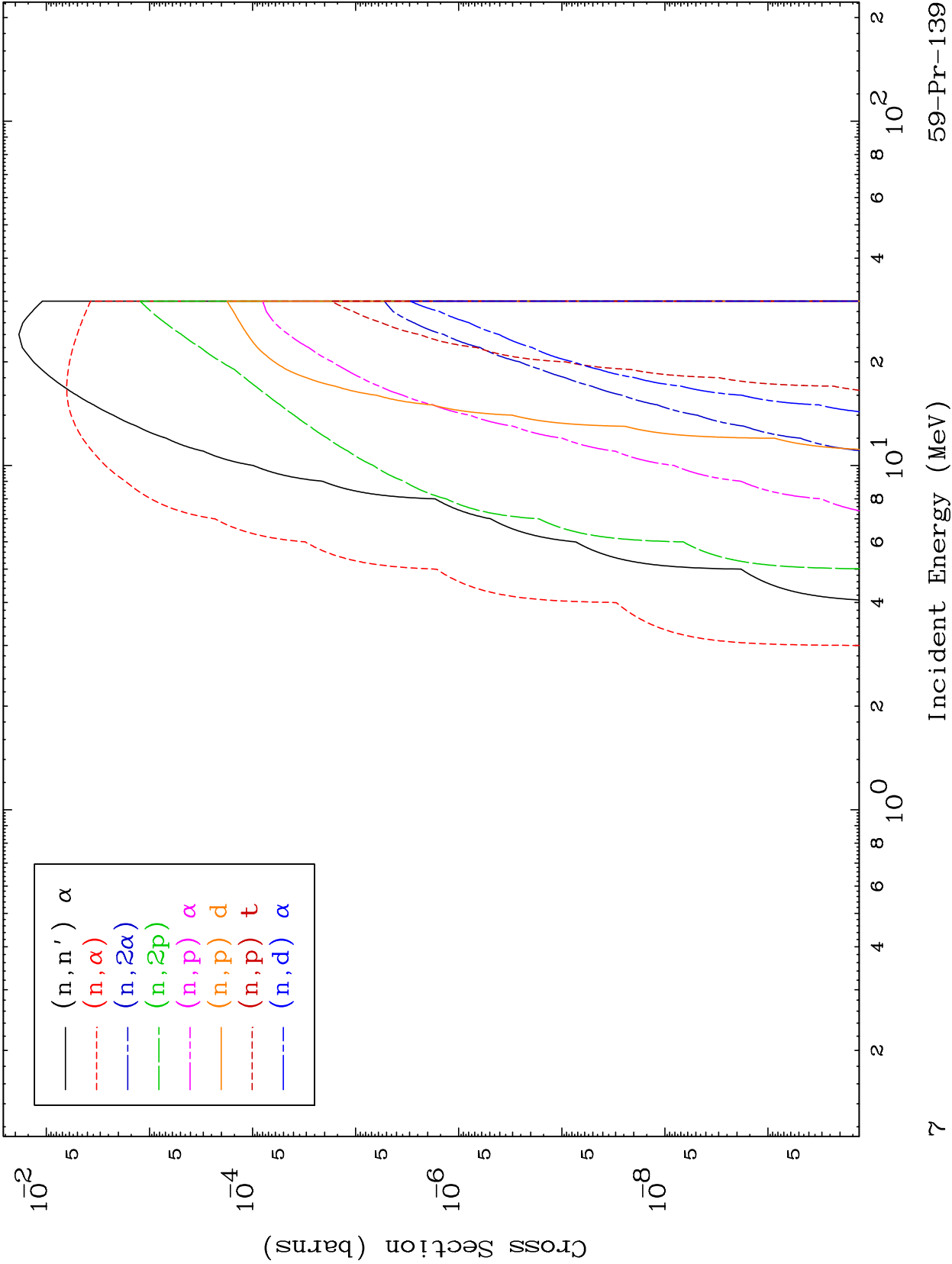










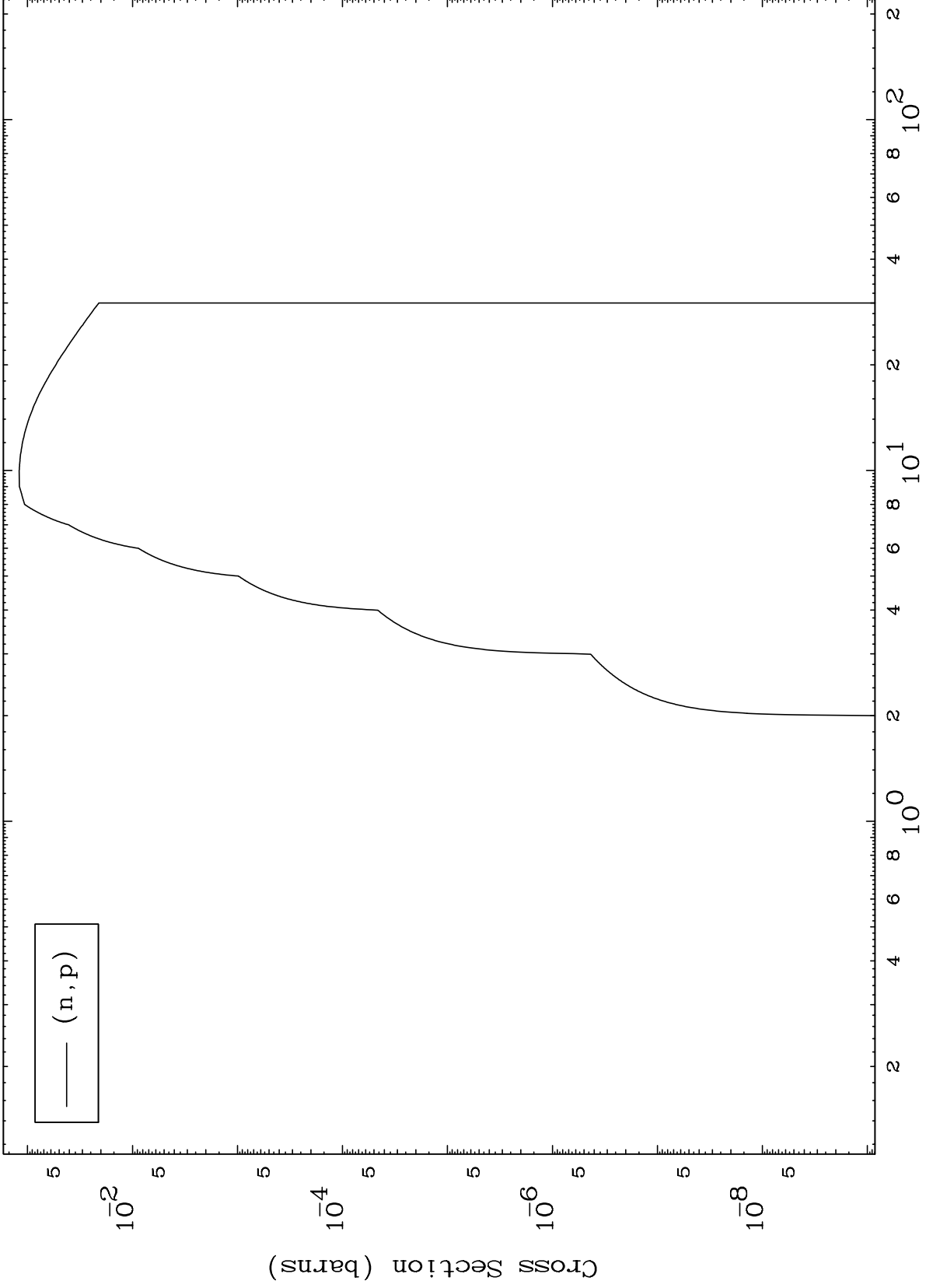




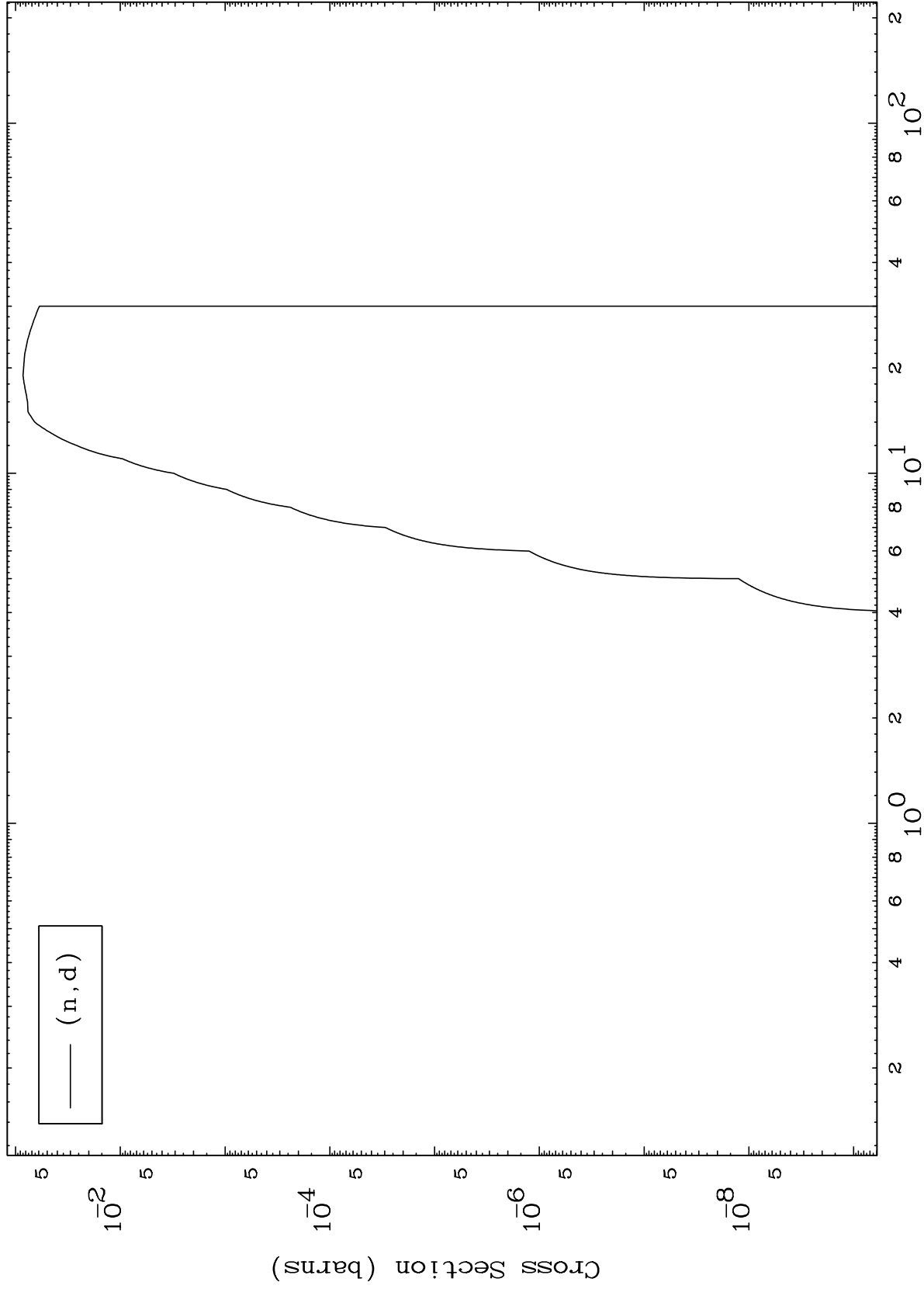
MAT 5919

59-Pr-139

(d,p) Levels  
0 Kelvin Cross Sections



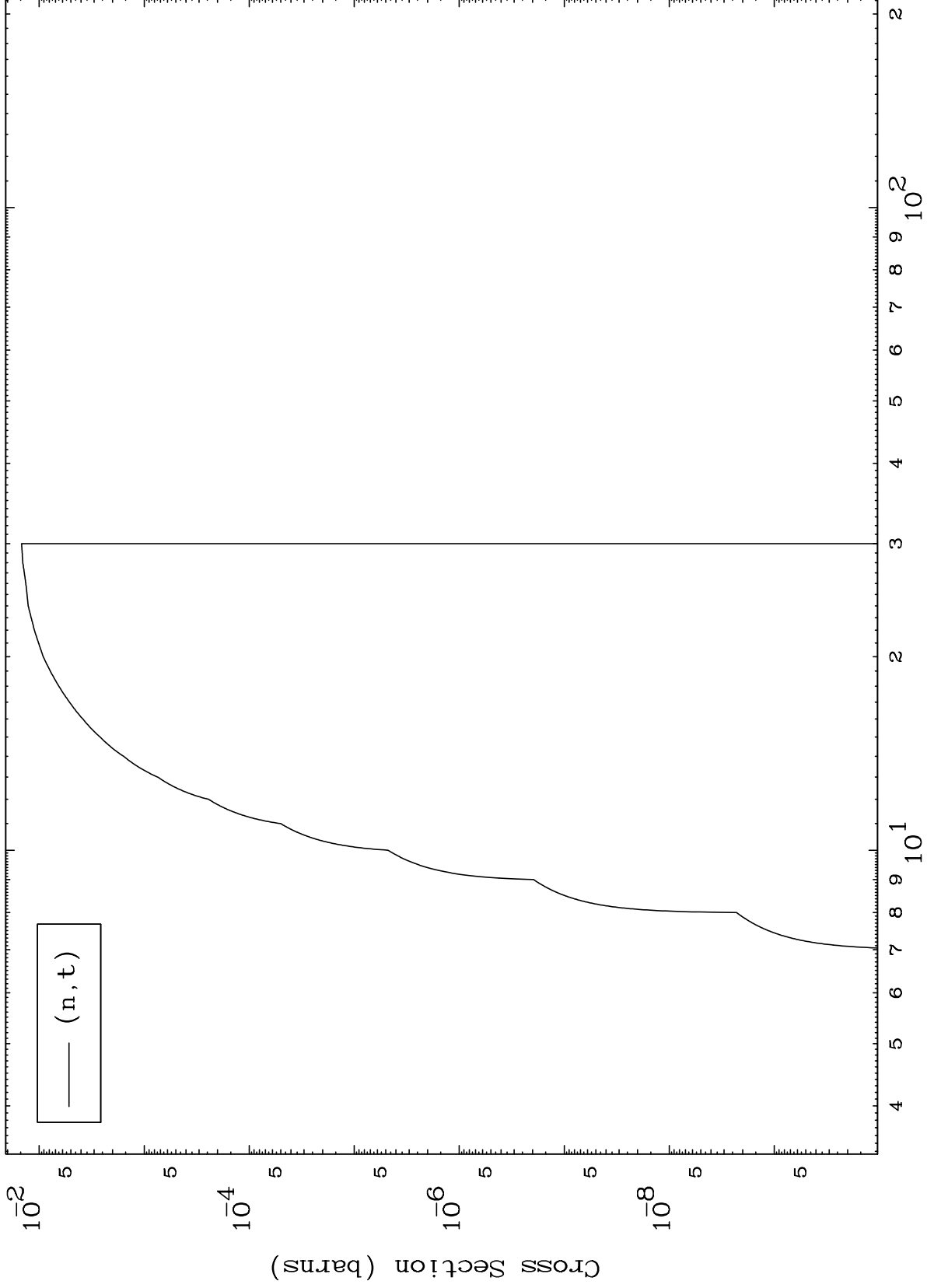
0 Kelvin Cross Sections



MAT 5919

(d,t) Levels  
0 Kelvin Cross Sections

59-Pr-139



10

Incident Energy (MeV)

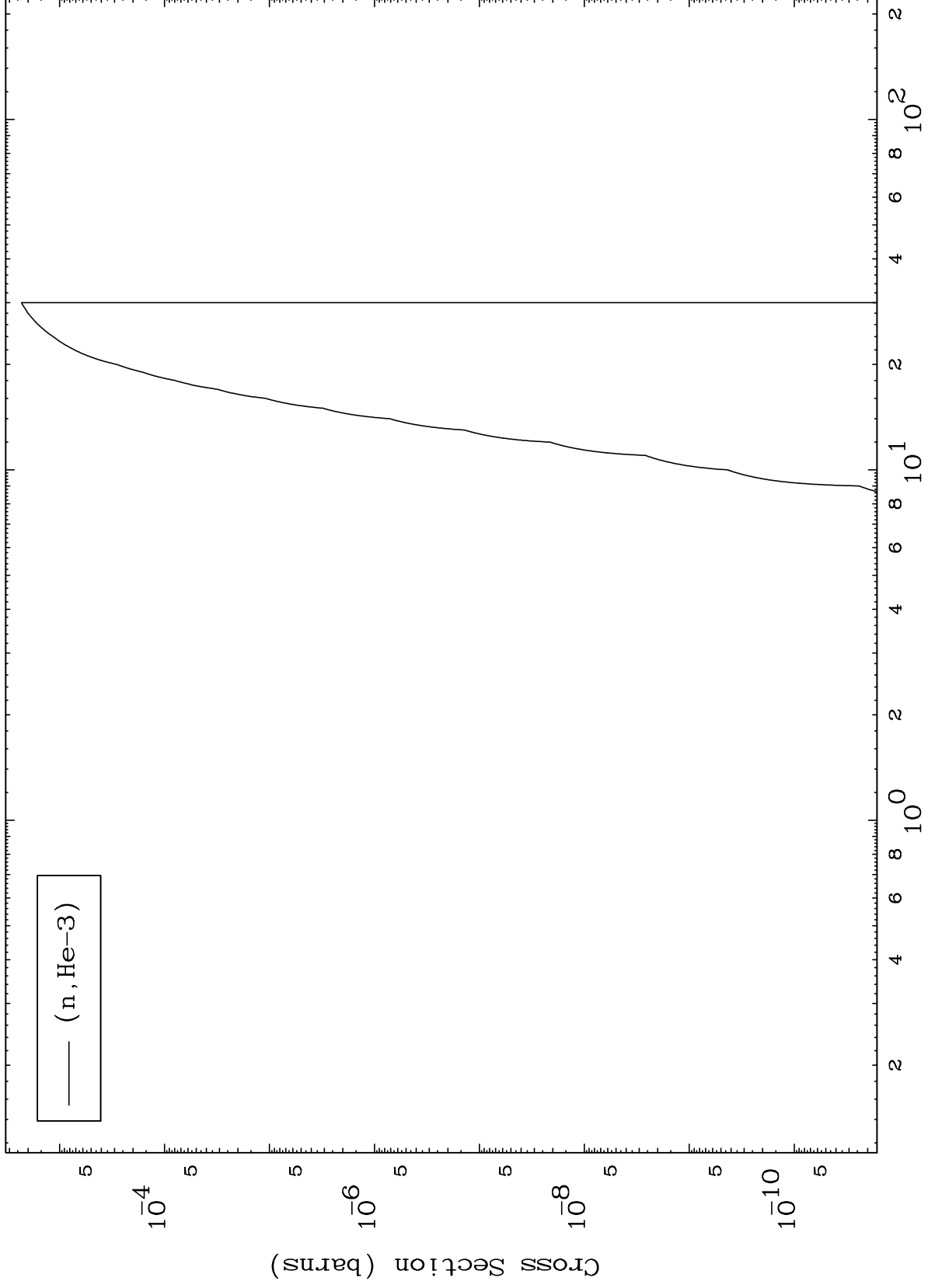
59-Pr-139

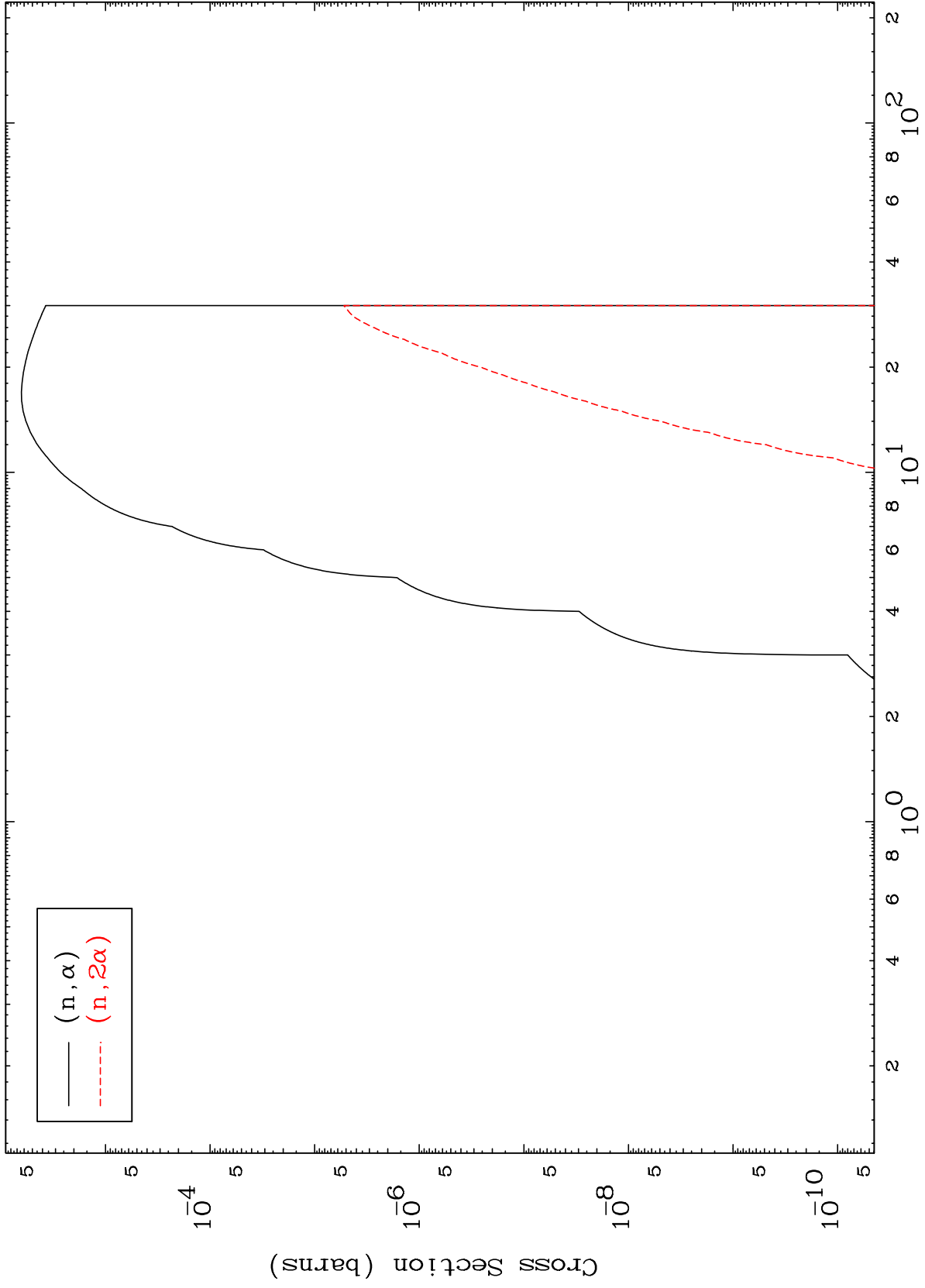
MAT 5919

(d,He3) Levels

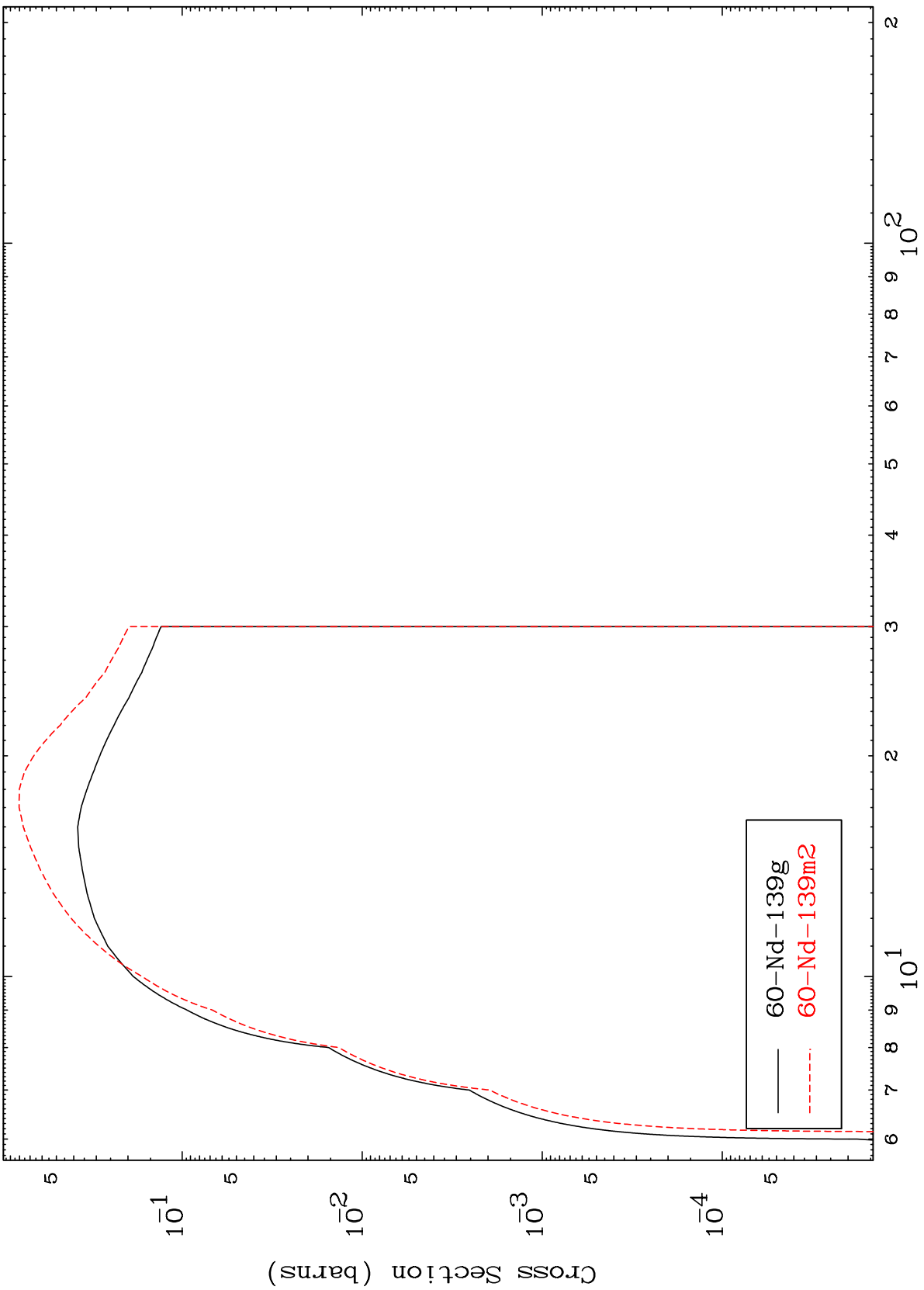
59-Pr-139

0 Kelvin Cross Sections





Radionuclide Production Cross Section (n,2n)

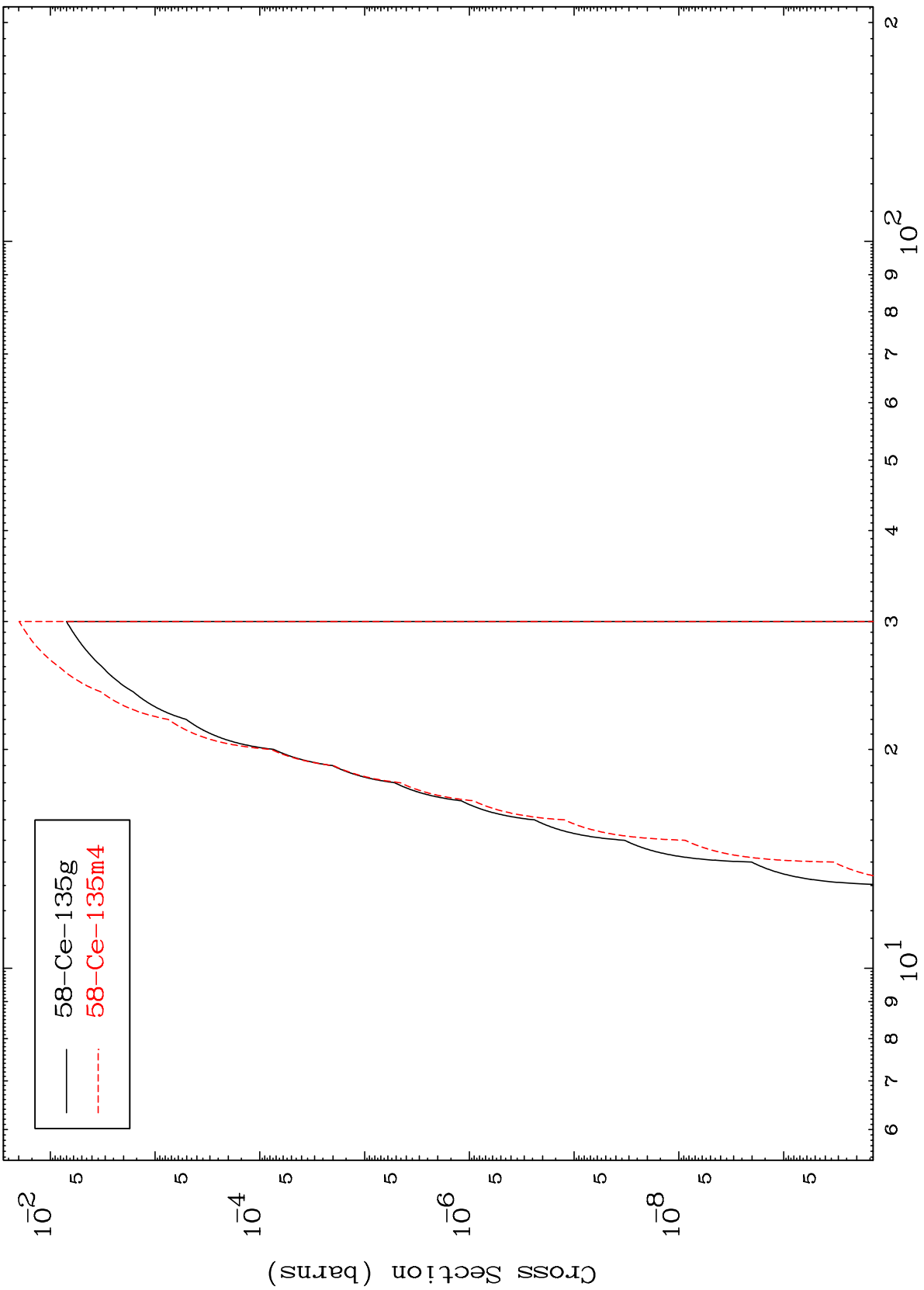


MAT 5919

$(n,2n) \alpha$

59-Pr-139

Radionuclide Production Cross Section



14

Incident Energy (MeV)

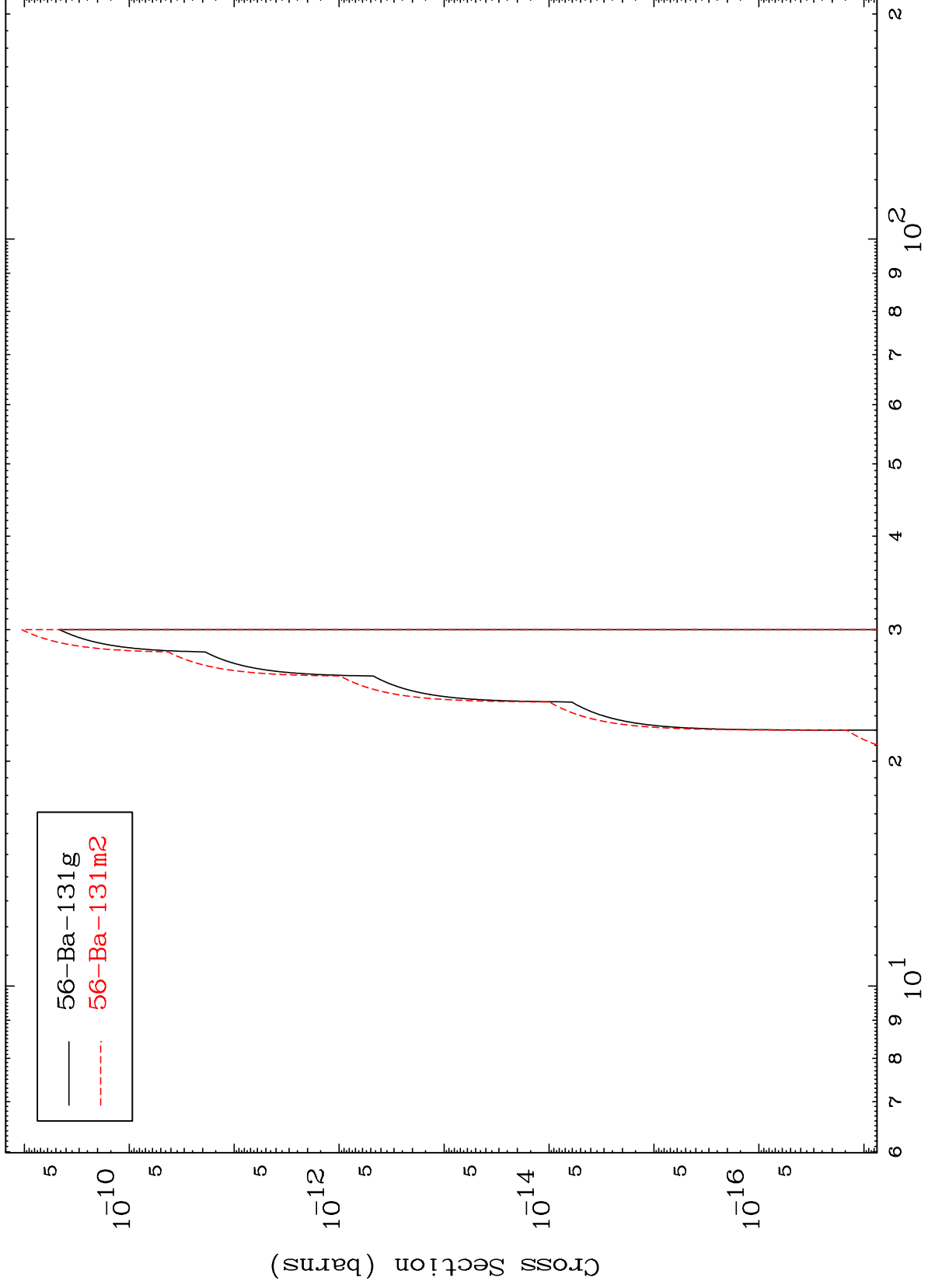
59-Pr-139

MAT 5919

$^{59}\text{Pr-139}$

$^{59}\text{Pr-139}$

Radionuclide Production Cross Section



15

Incident Energy (MeV)

$^{59}\text{Pr-139}$

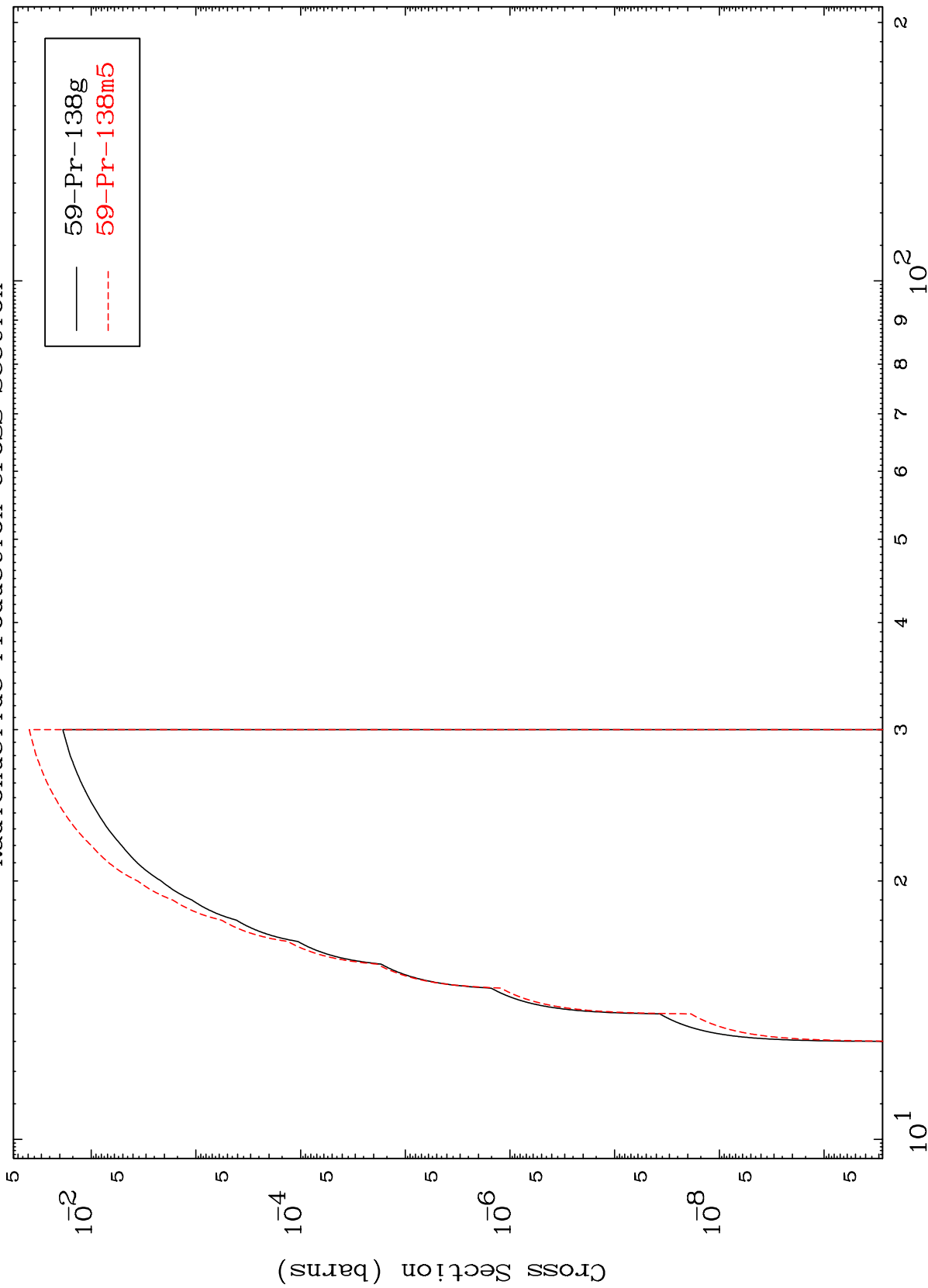


MAT 5919

(n,n') d

59-Pr-139

Radionuclide Production Cross Section



Incident Energy (MeV)

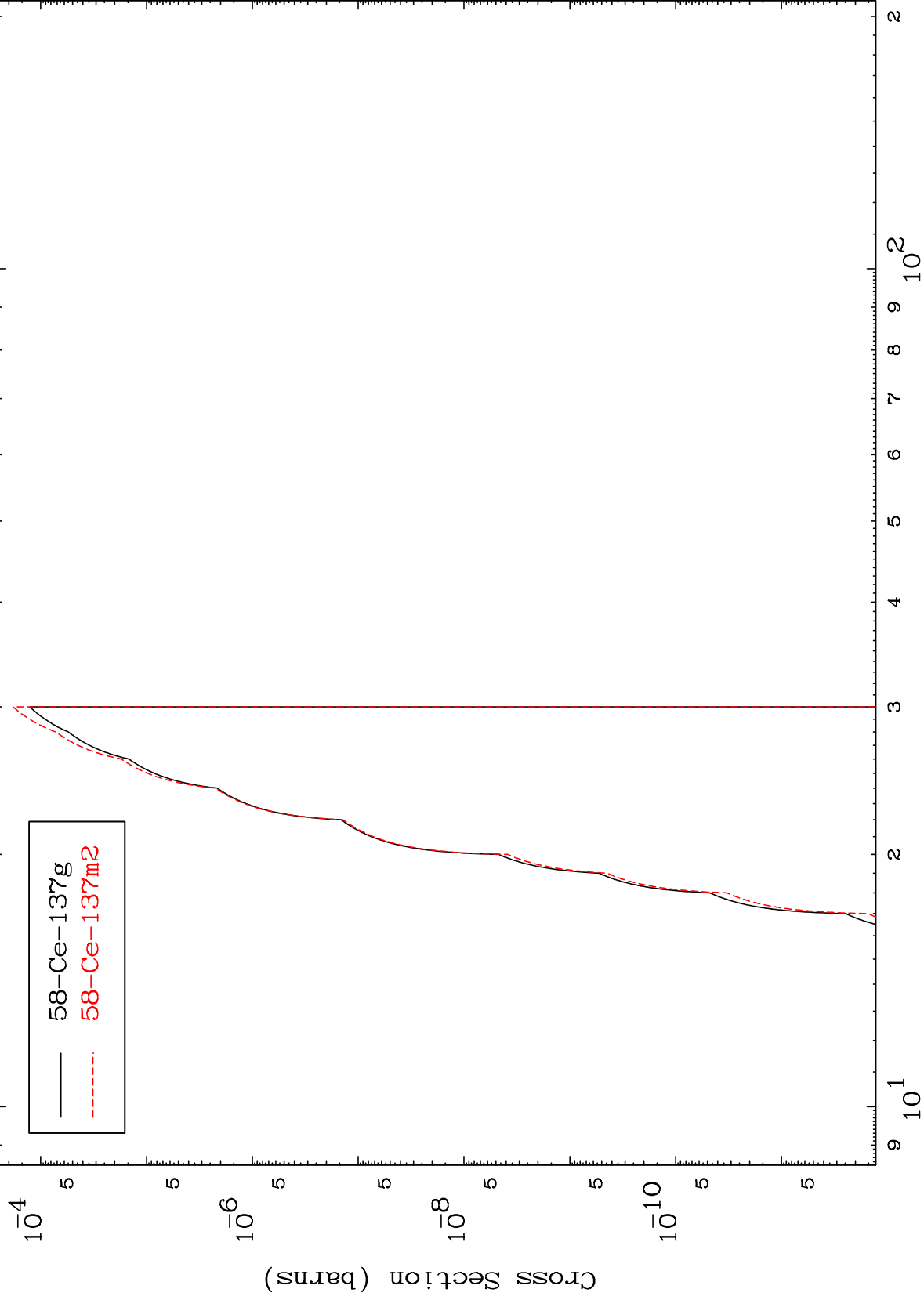
59-Pr-139

MAT 5919

(n,n') He-3

59-Pr-139

Radionuclide Production Cross Section

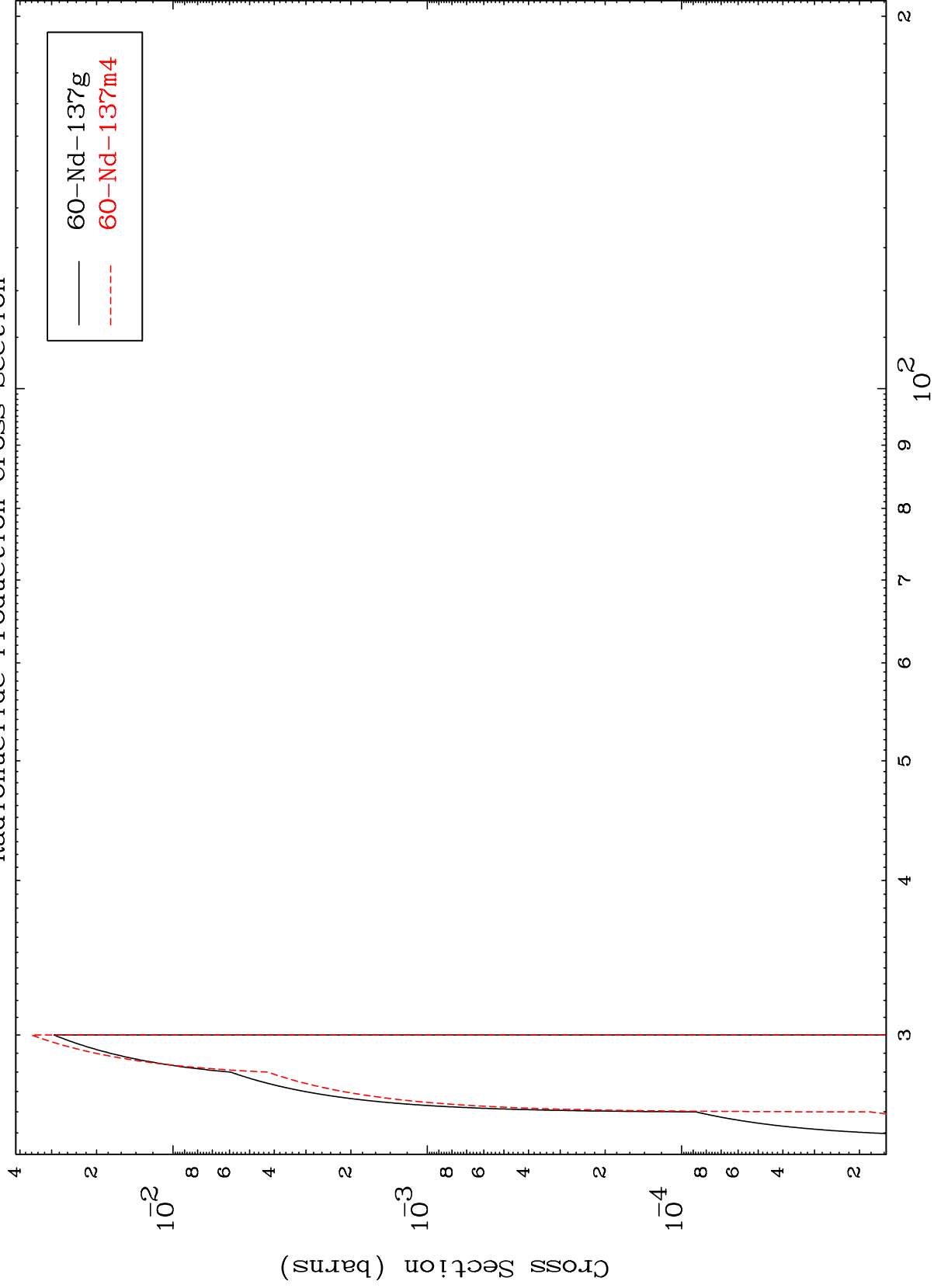


Incident Energy (MeV)

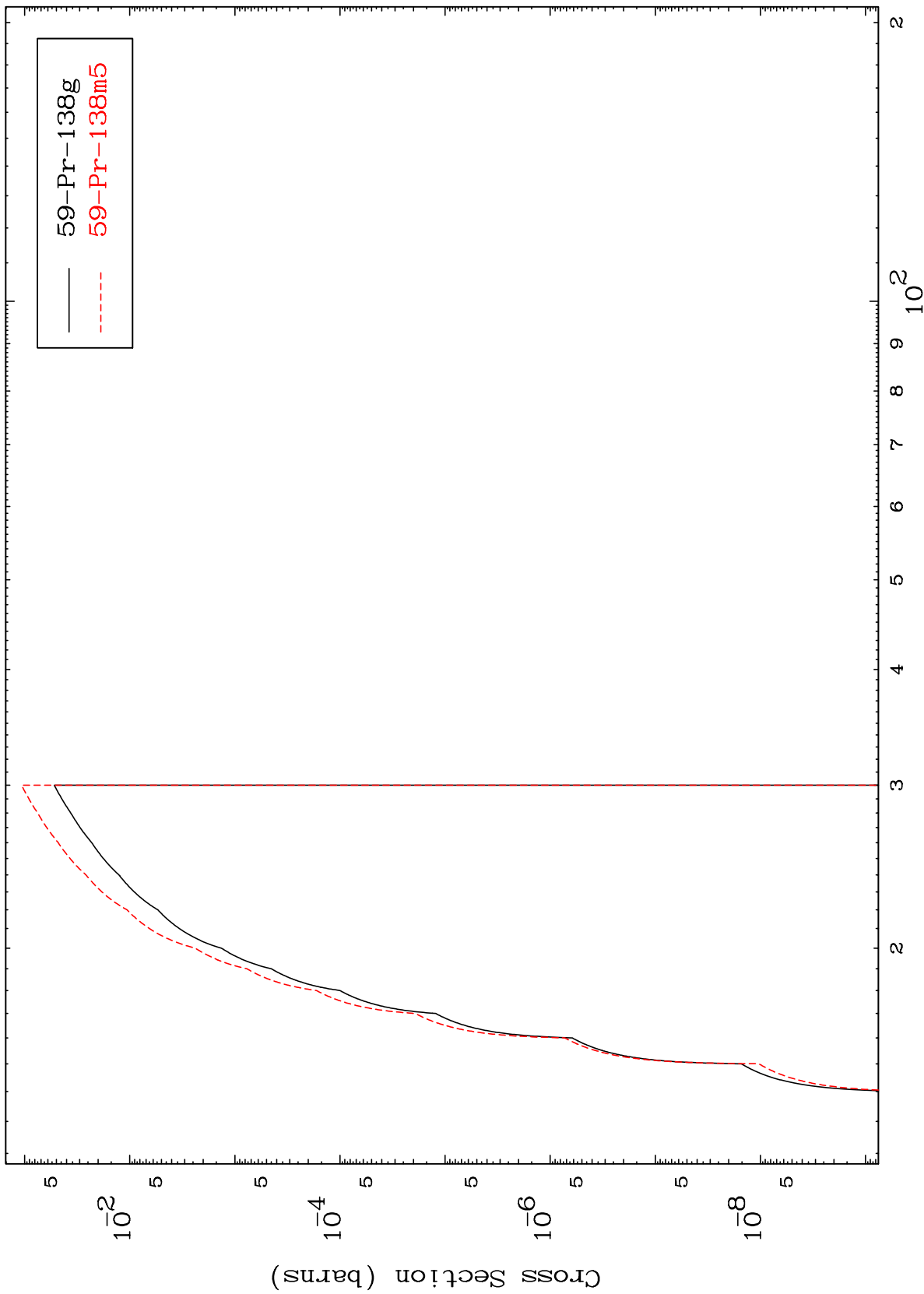
59-Pr-139

17

Radionuclide Production Cross Section

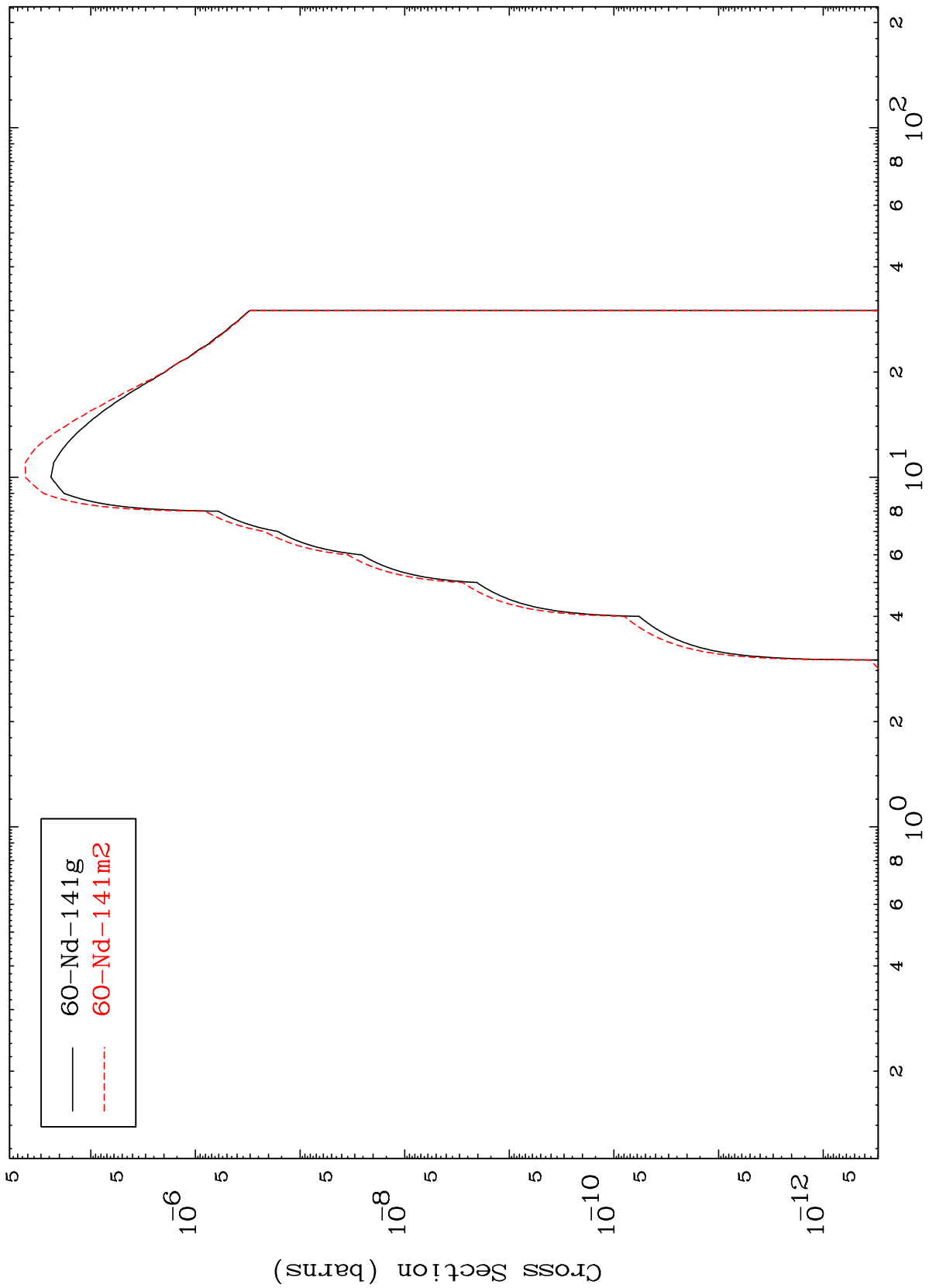


Radionuclide Production Cross Section



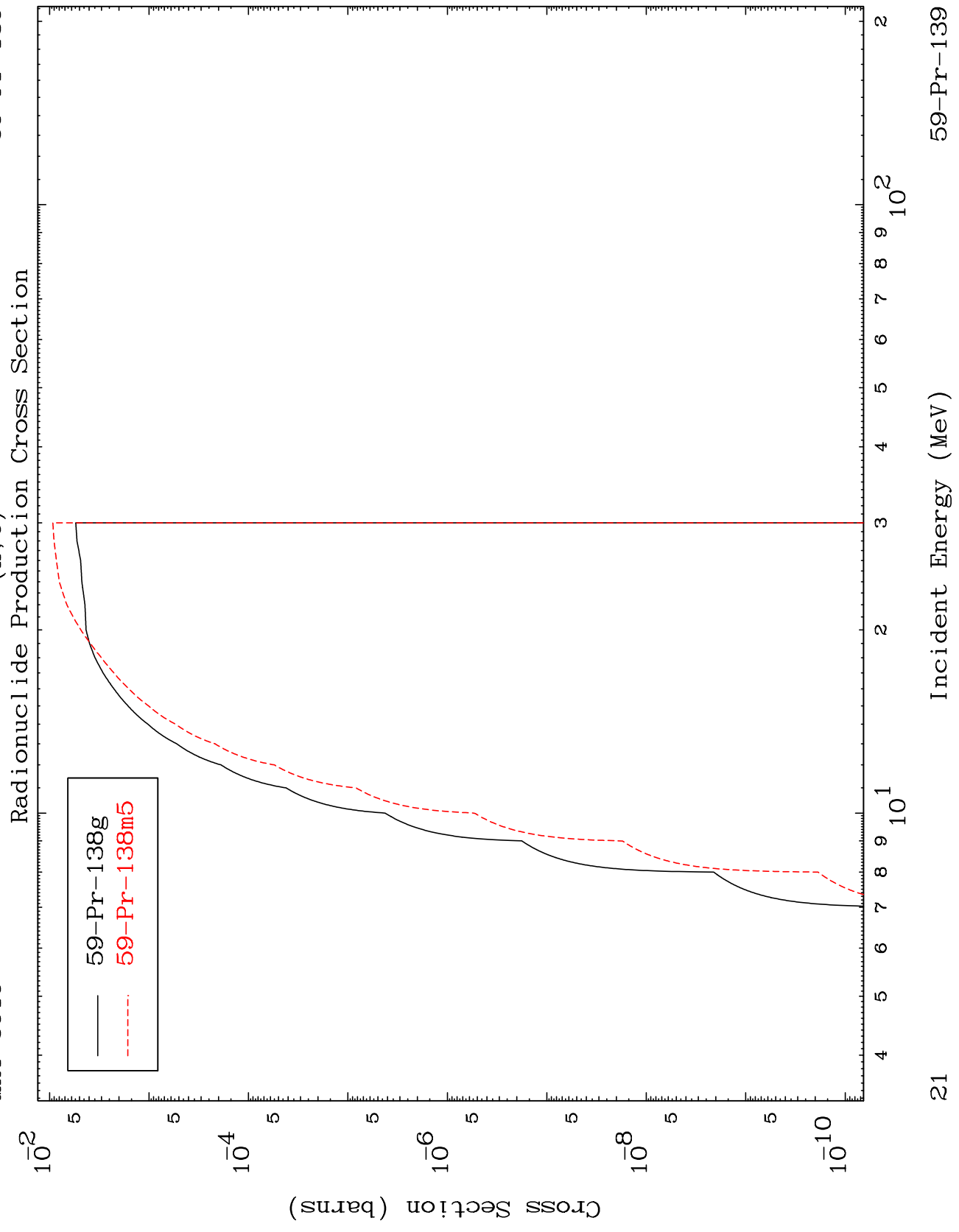
59-Pr-138g  
59-Pr-138m5

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



MAT 5919

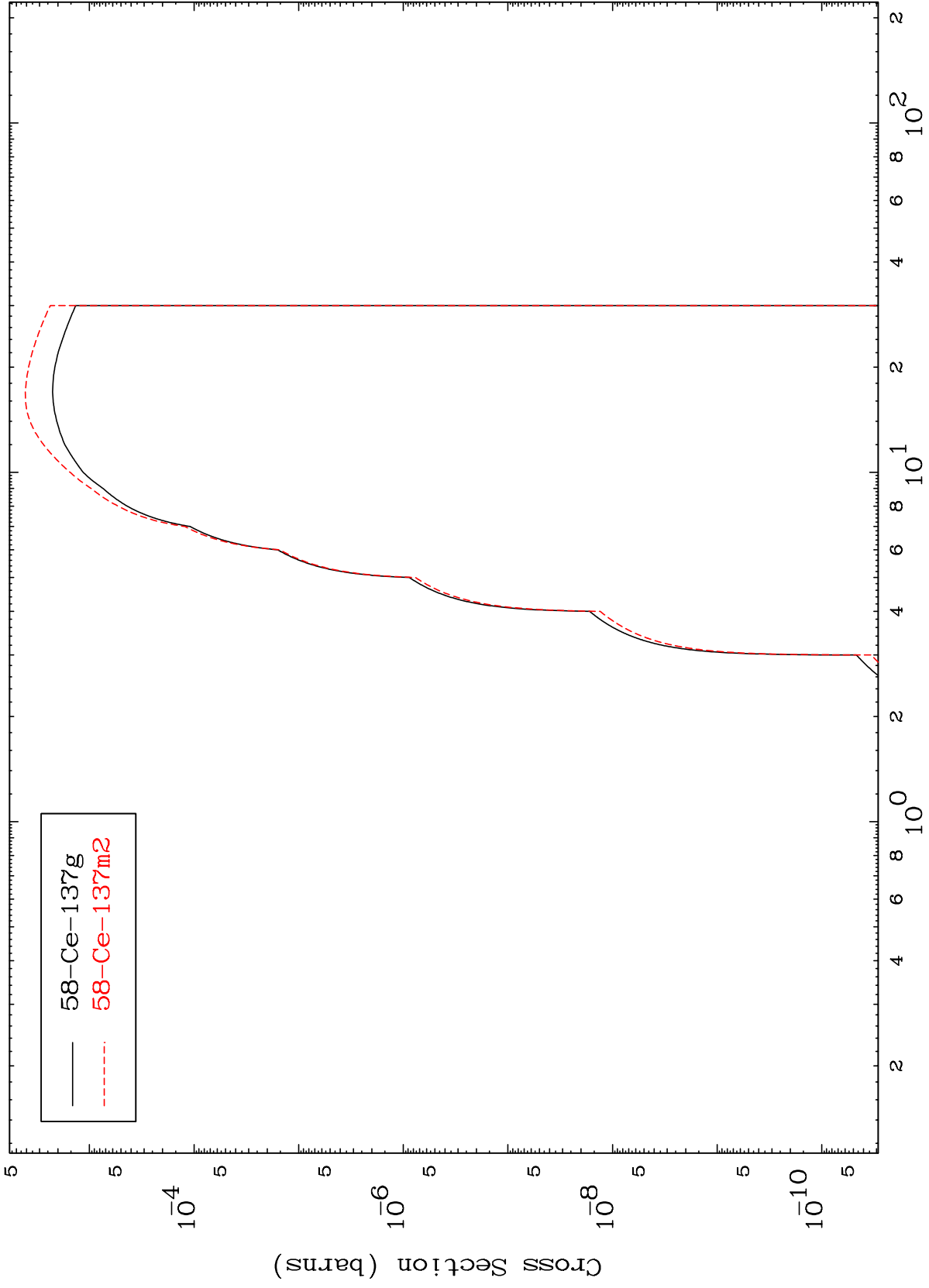
59-Pr-139



MAT 5919

59-Pr-139

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



59-Pr-139

Incident Energy (MeV)

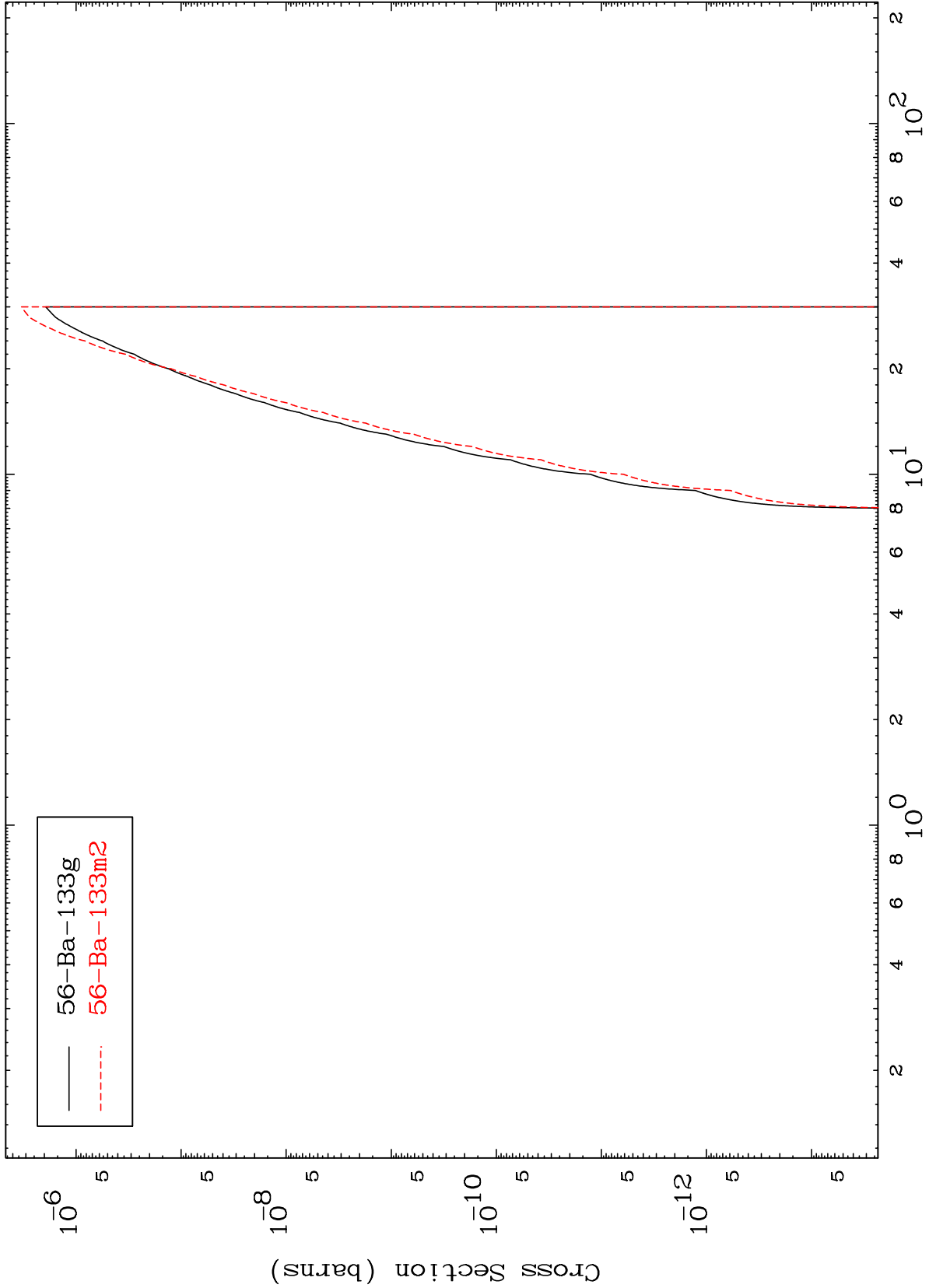
22

MAT 5919

(n,2α)

59-Pr-139

Radionuclide Production Cross Section



56-Ba-133g  
56-Ba-133m2

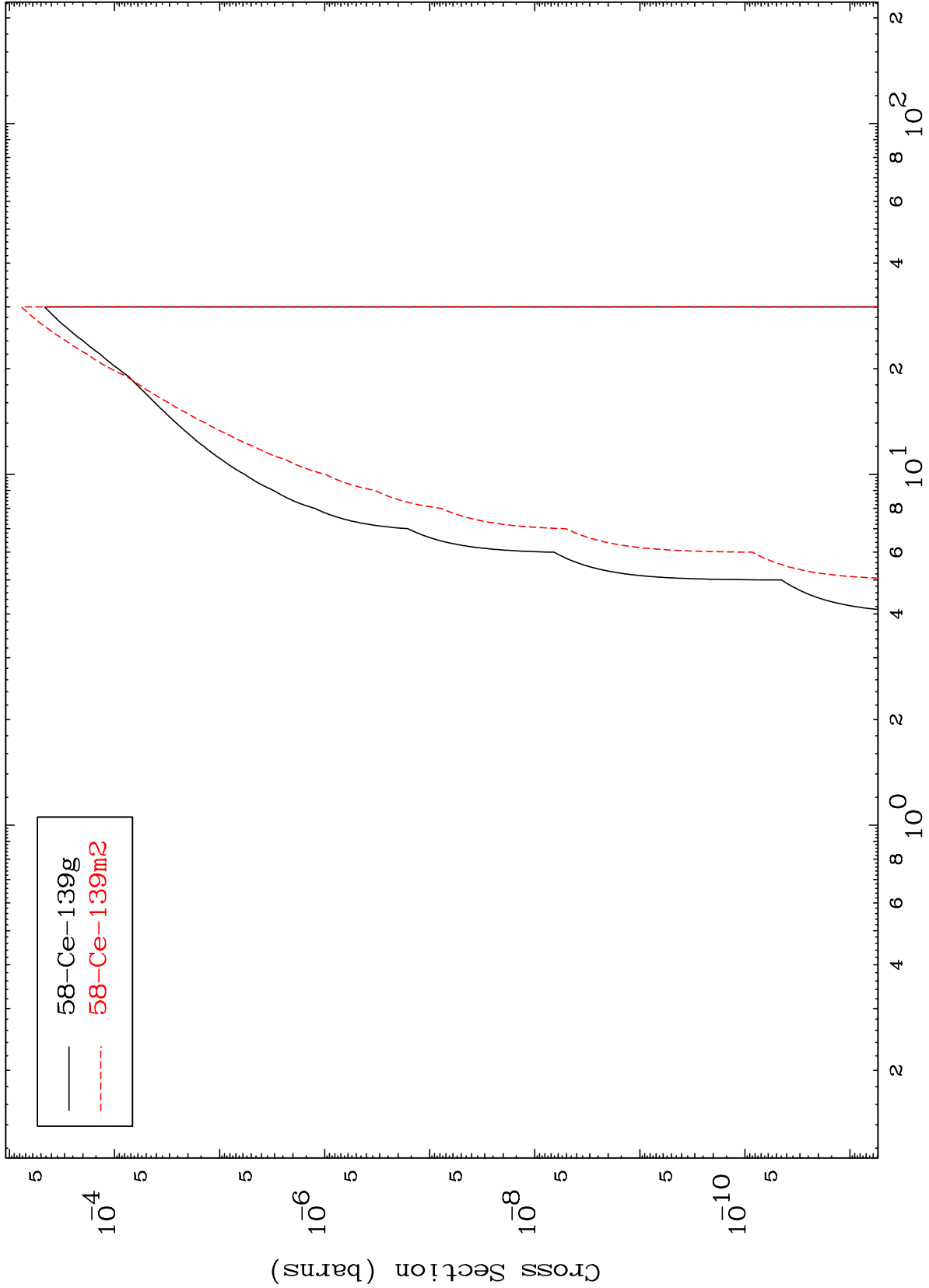


MAT 5919

(n,2p)

59-Pr-139

Radionuclide Production Cross Section



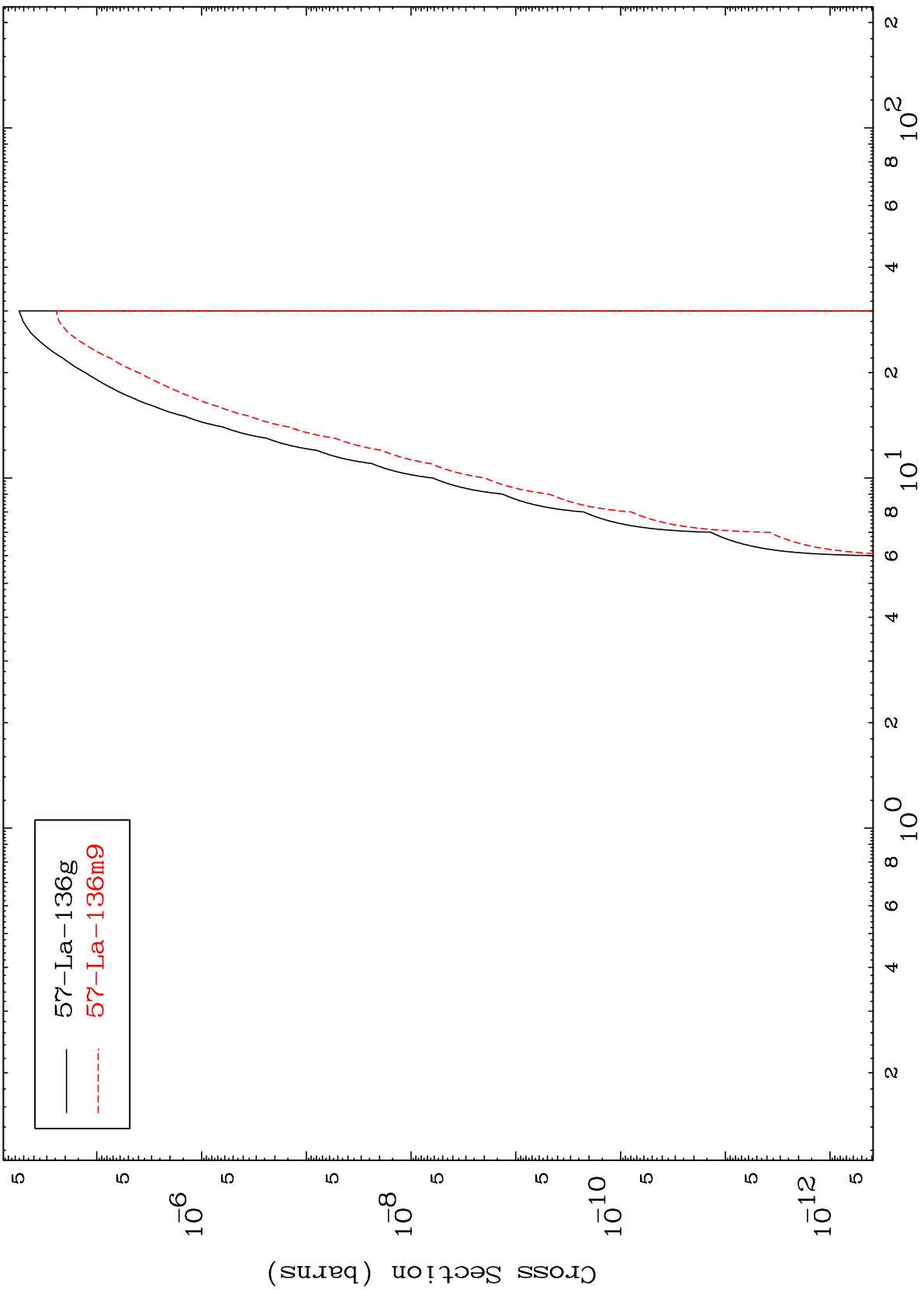
58-Ce-139g  
58-Ce-139m2

MAT 5919

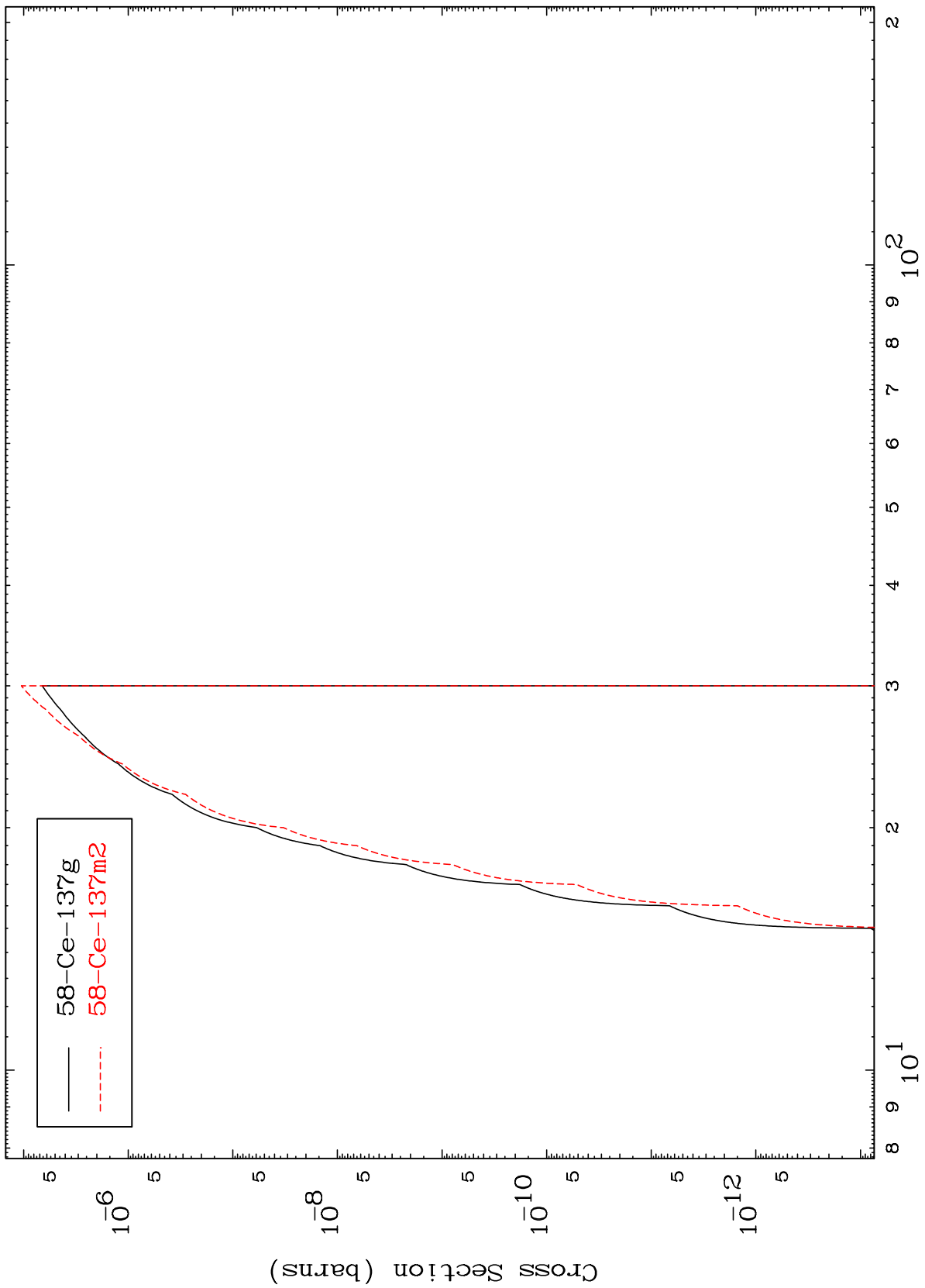
(n,p)  $\alpha$

59-Pr-139

Radionuclide Production Cross Section



Radionuclide Production Cross Section



58-Ce-137g  
58-Ce-137m2