

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)

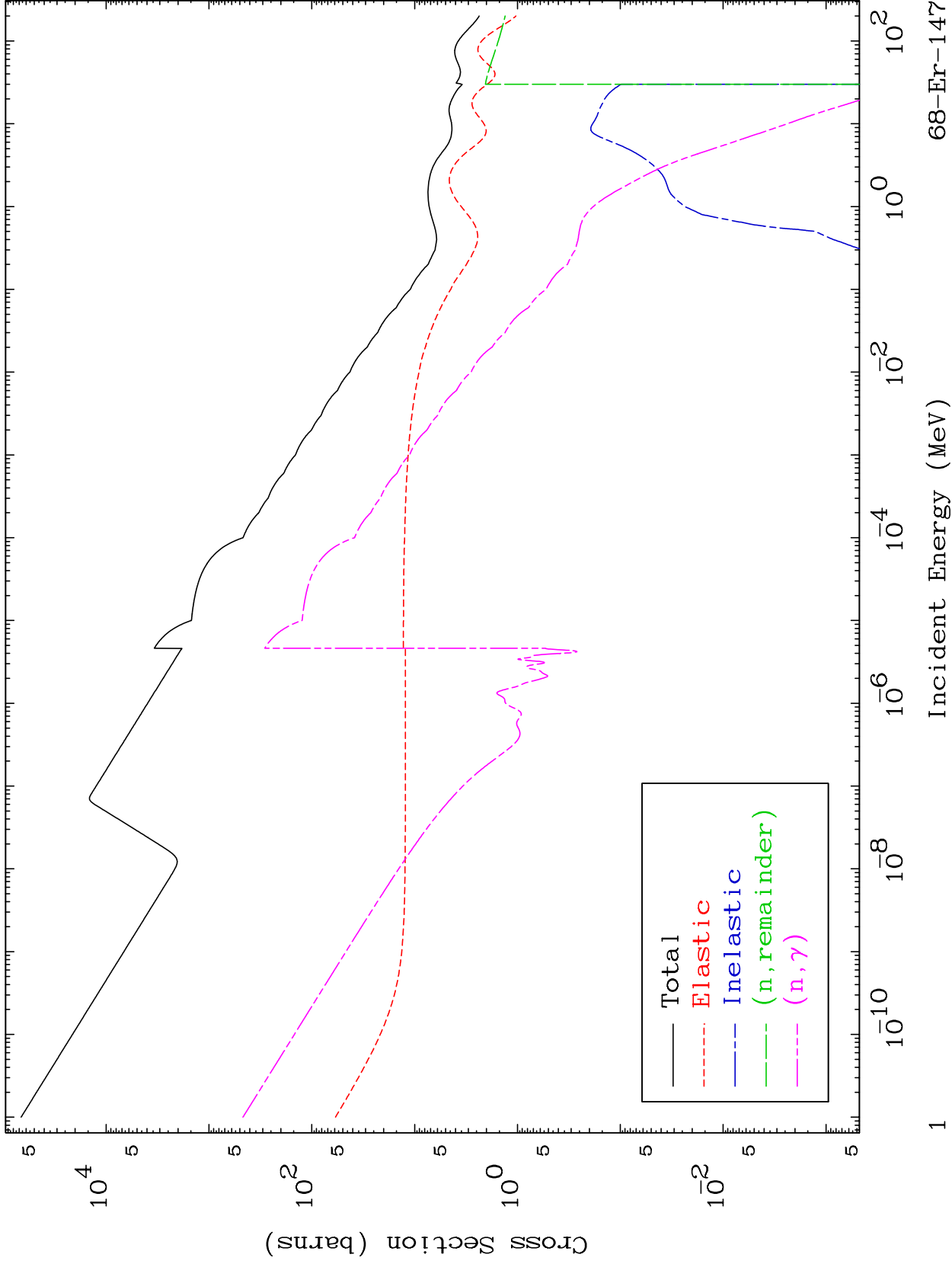
Press Mouse Button to Start

MAT 6781

Major

293 Kelvin Cross Sections

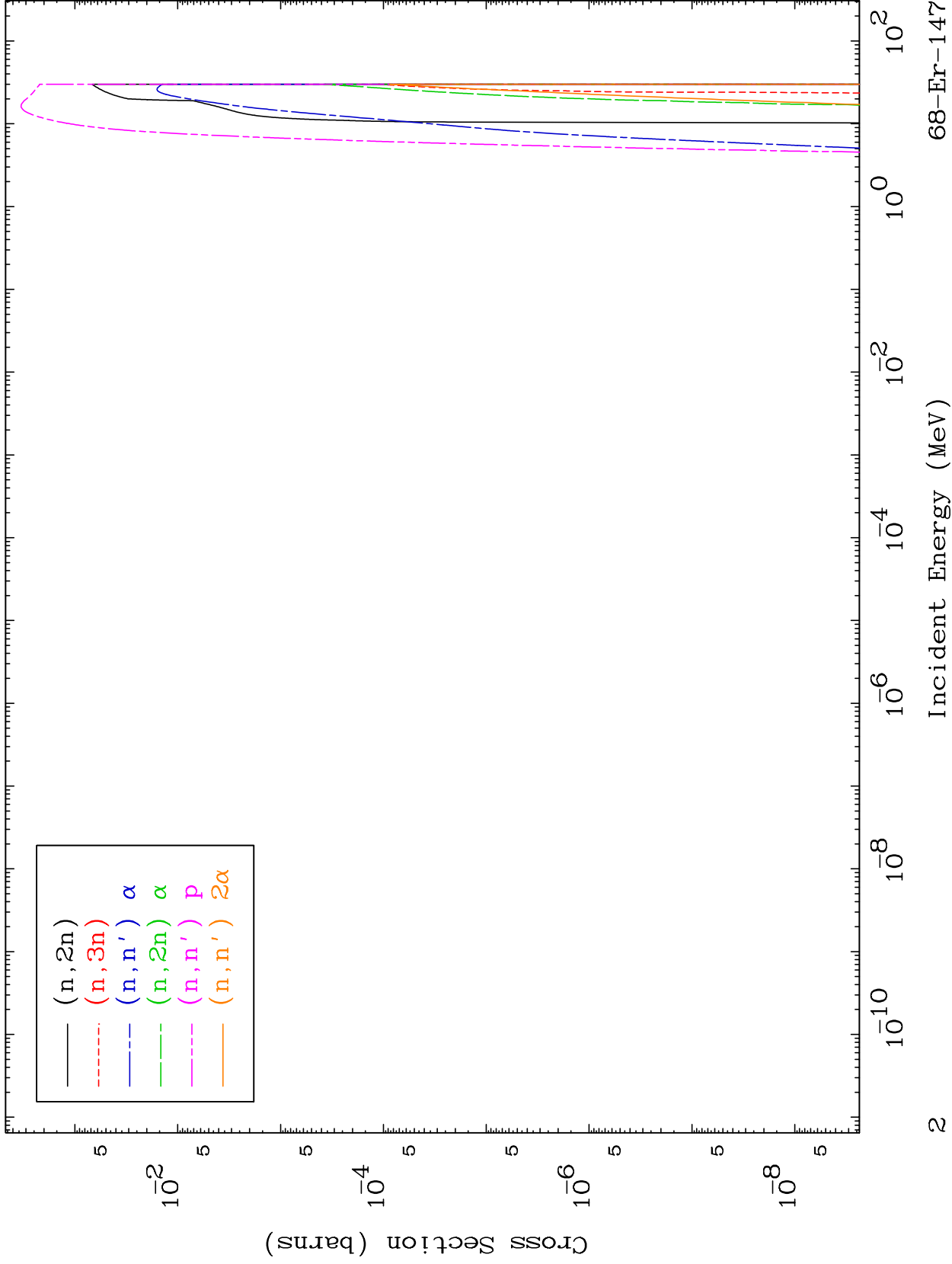
68-Er-147

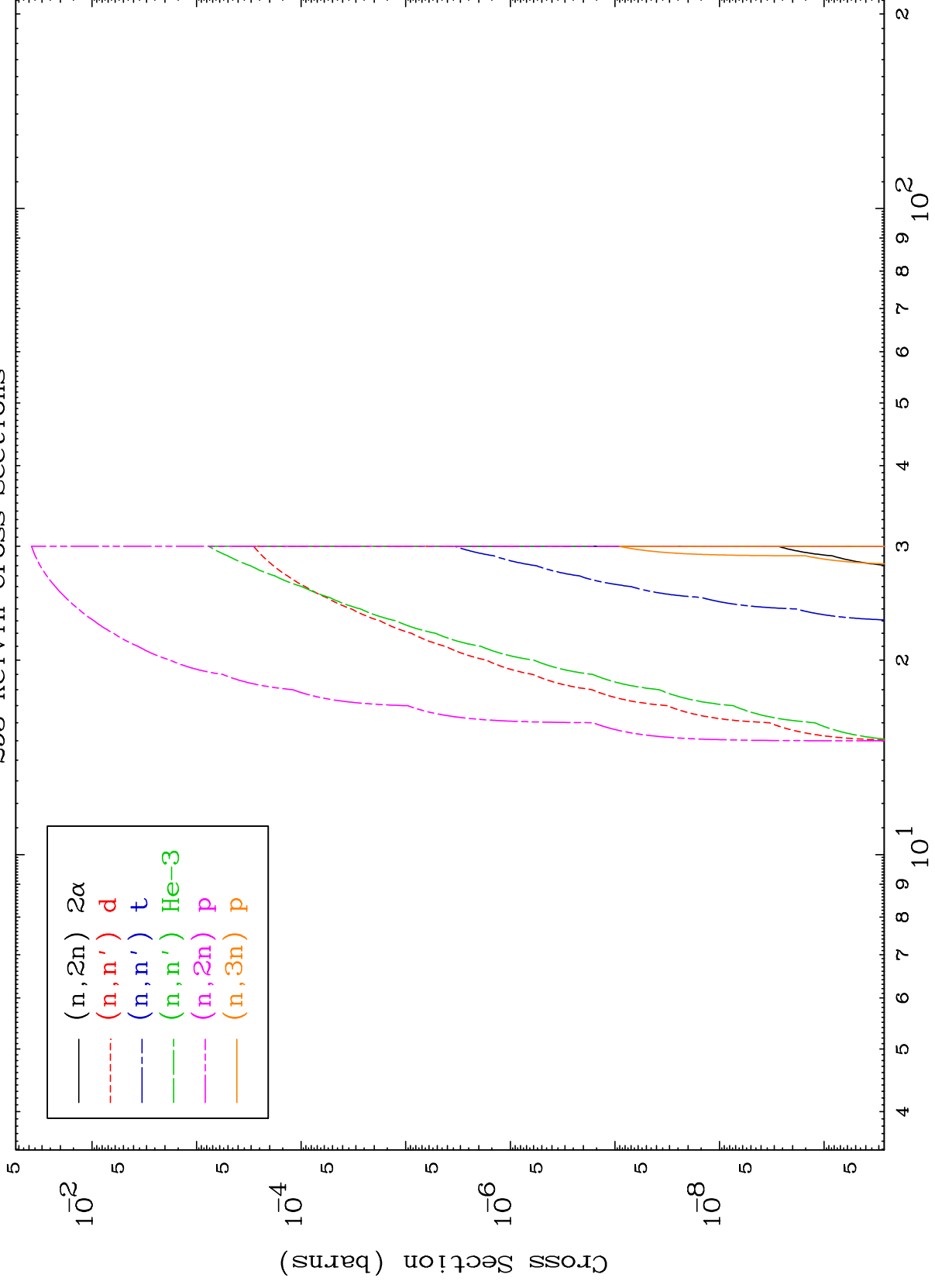


MAT 6781

Neutron Production  
293 Kelvin Cross Sections

68-Er-147

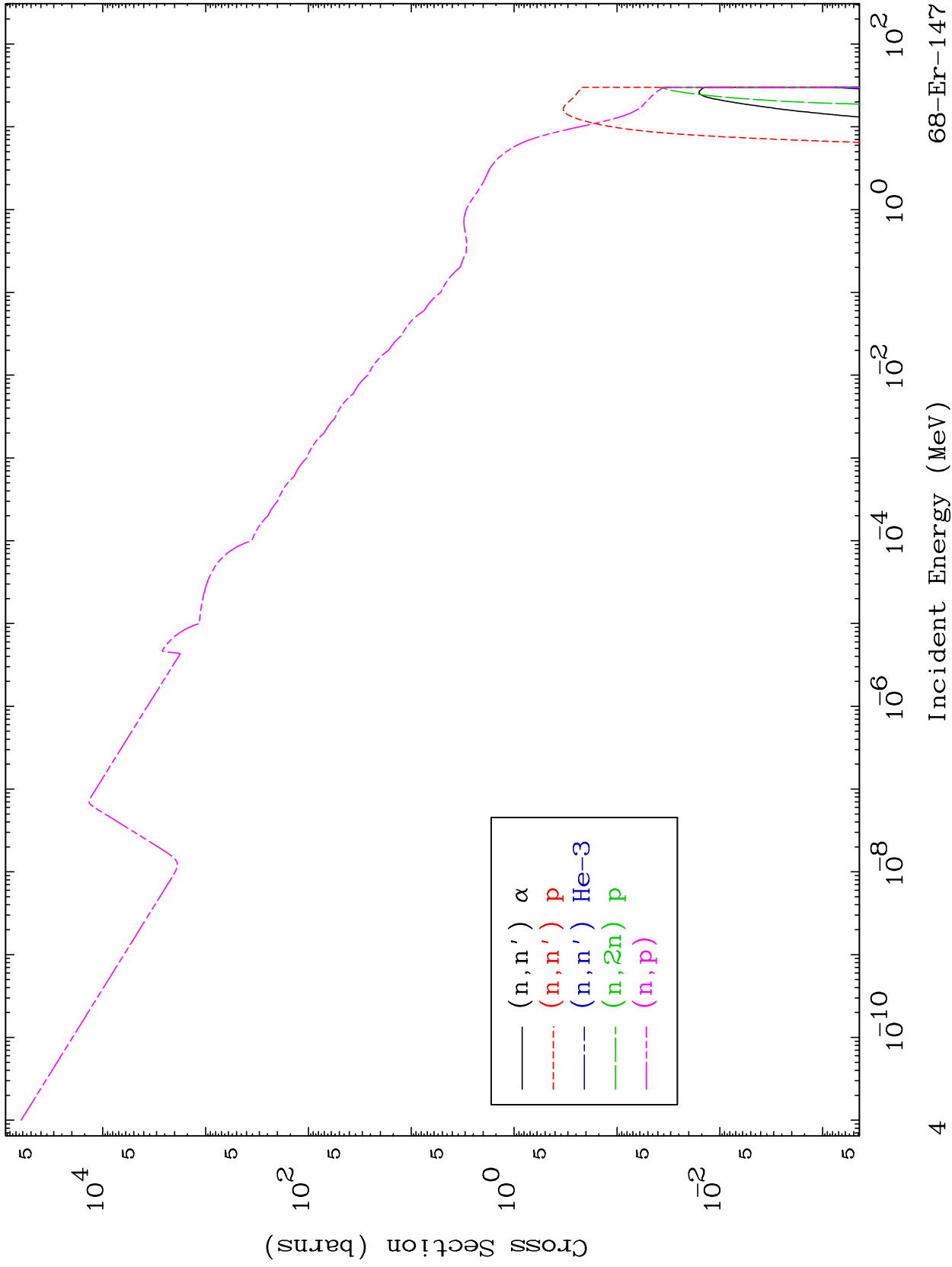




MAT 6781

Charged Particle  
293 Kelvin Cross Sections

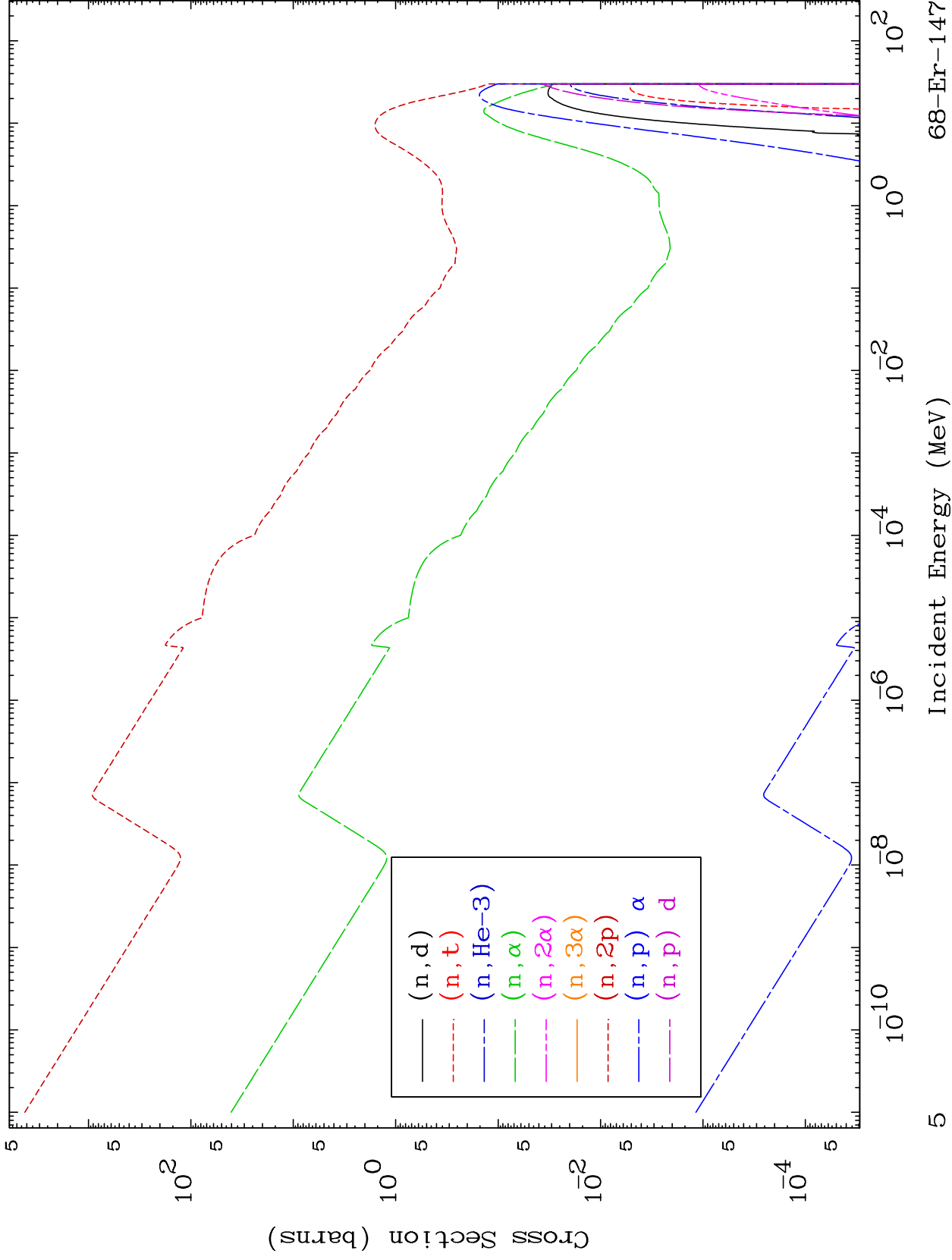
68-Er-147



MAT 6781

Charged Particle  
293 Kelvin Cross Sections

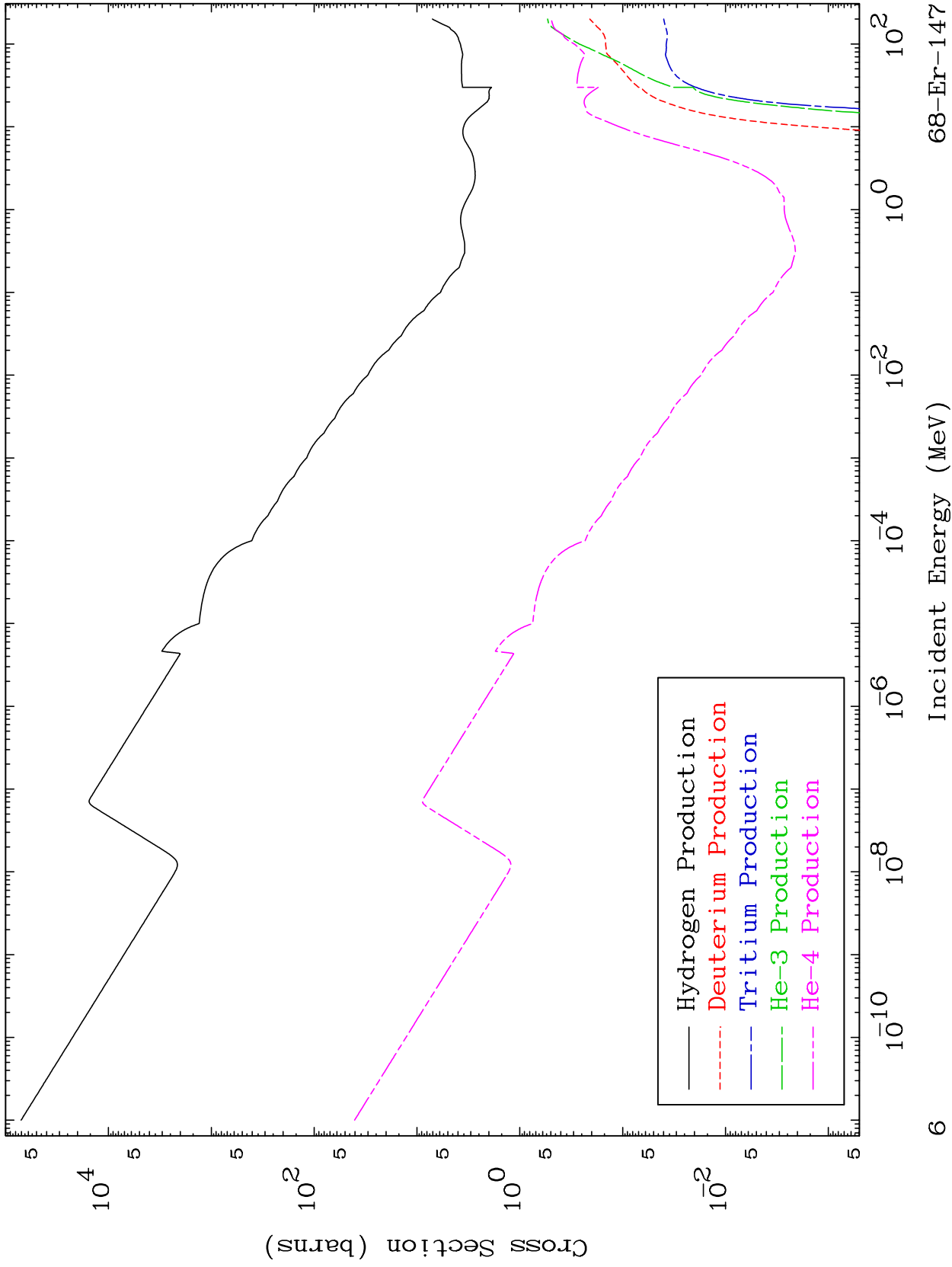
68-Er-147



5

Incident Energy (MeV)

68-Er-147

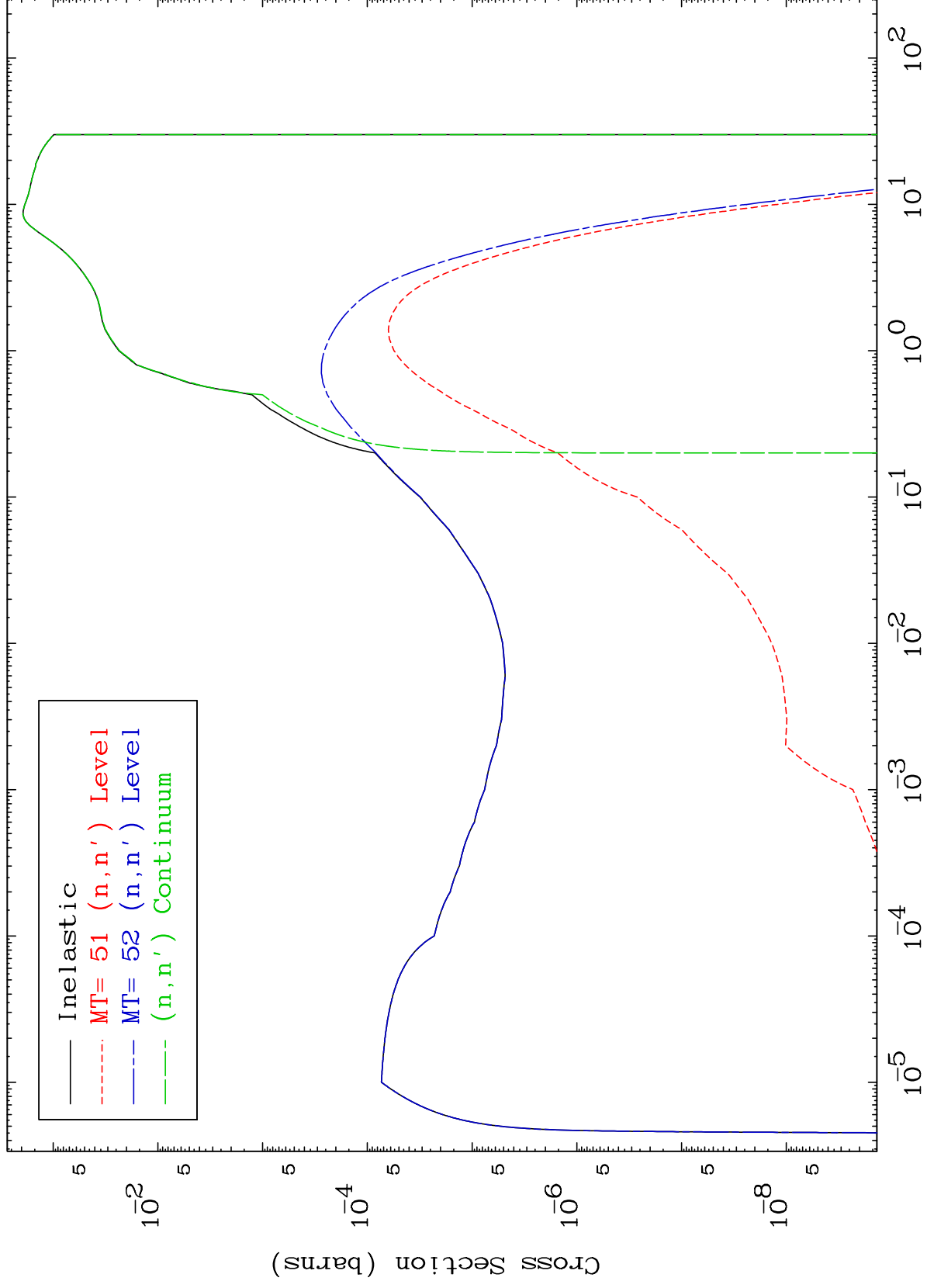


MAT 6781

(n,n') Level

68-Er-147

293 Kelvin Cross Sections

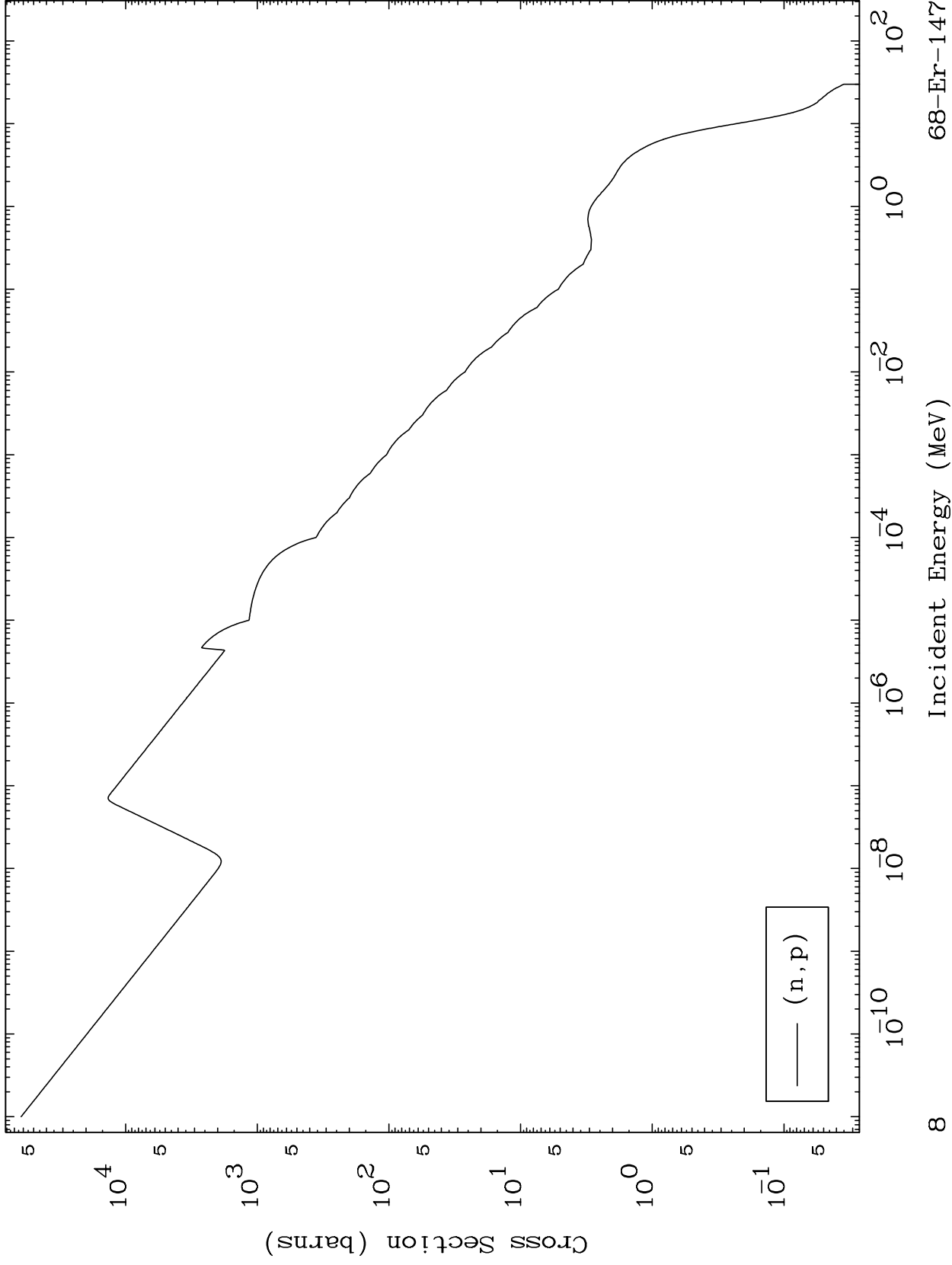




MAT 6781

(n,p) Levels  
293 Kelvin Cross Sections

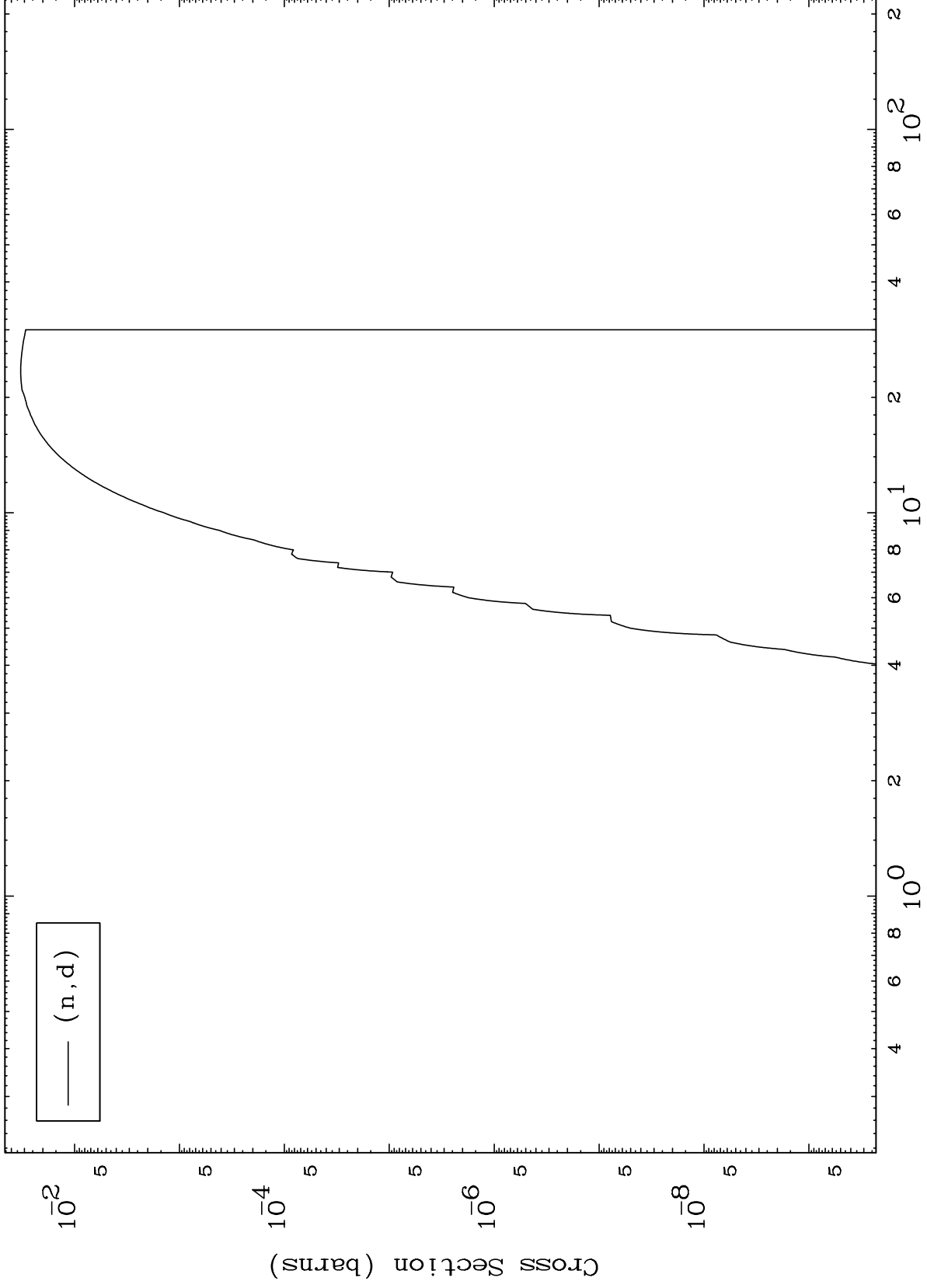
68-Er-147



MAT 6781

(n,d) Levels  
293 Kelvin Cross Sections

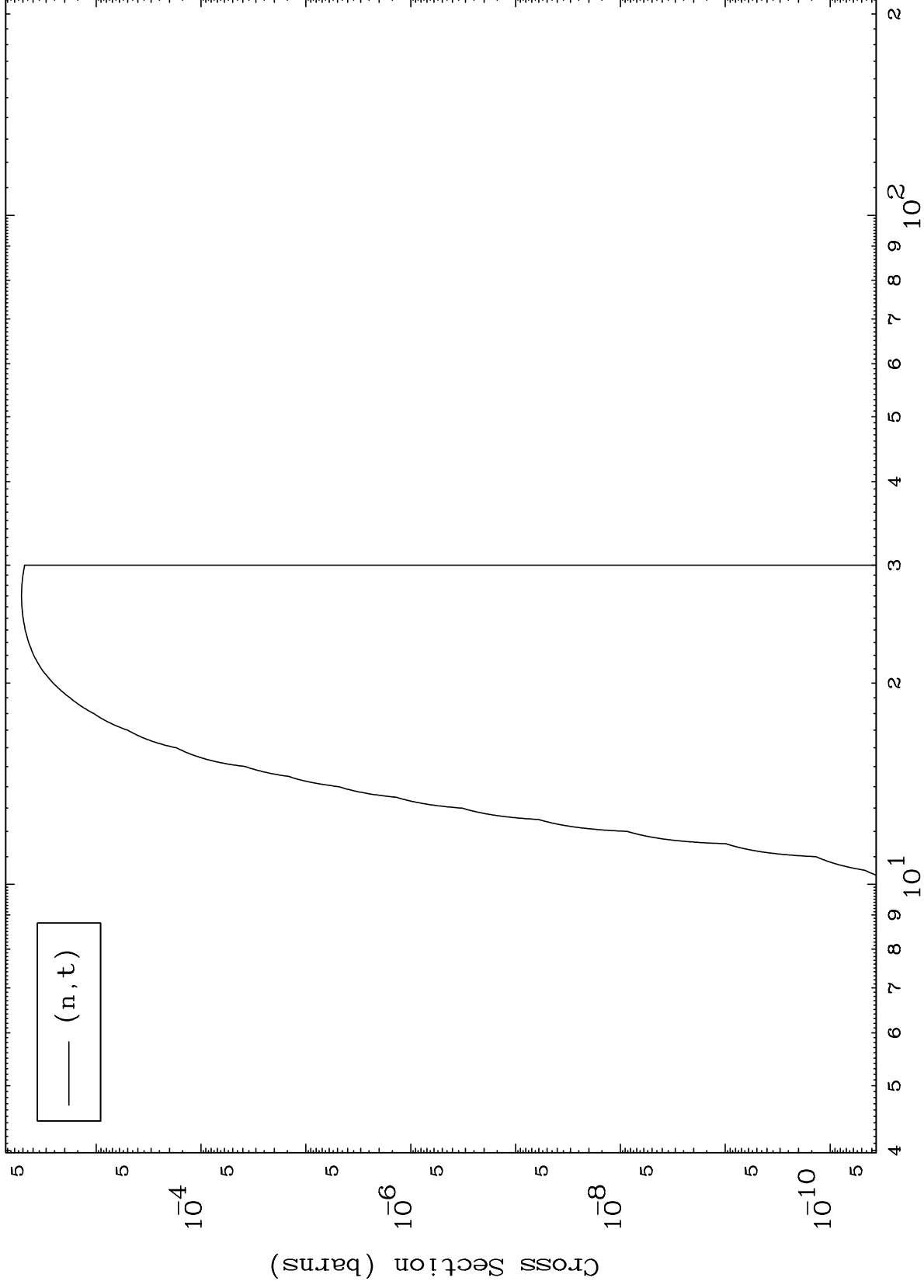
68-Er-147



MAT 6781

(n,t) Levels  
293 Kelvin Cross Sections

68-Er-147



10

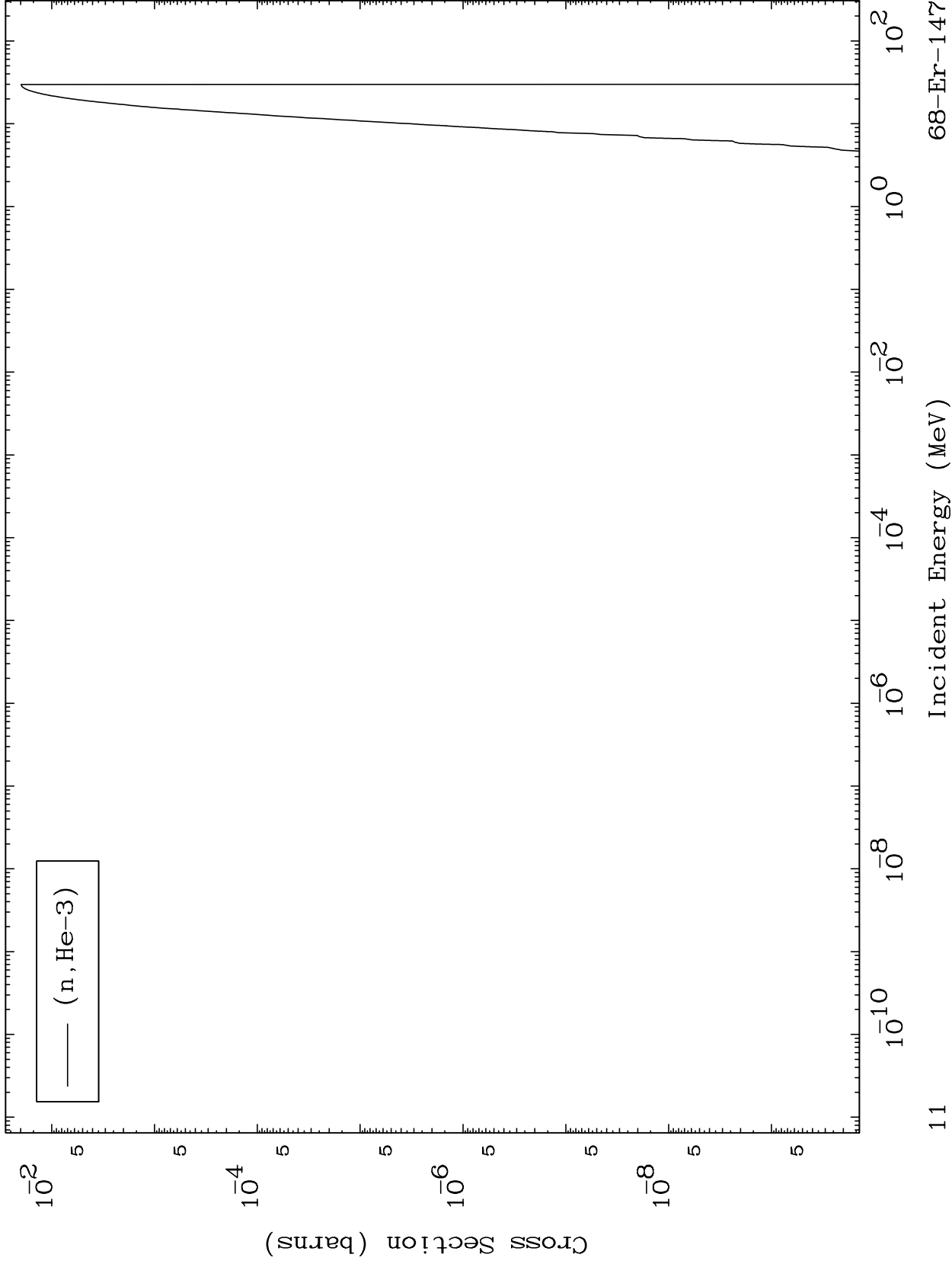
Incident Energy (MeV)

68-Er-147

MAT 6781

(n,He3) Levels  
293 Kelvin Cross Sections

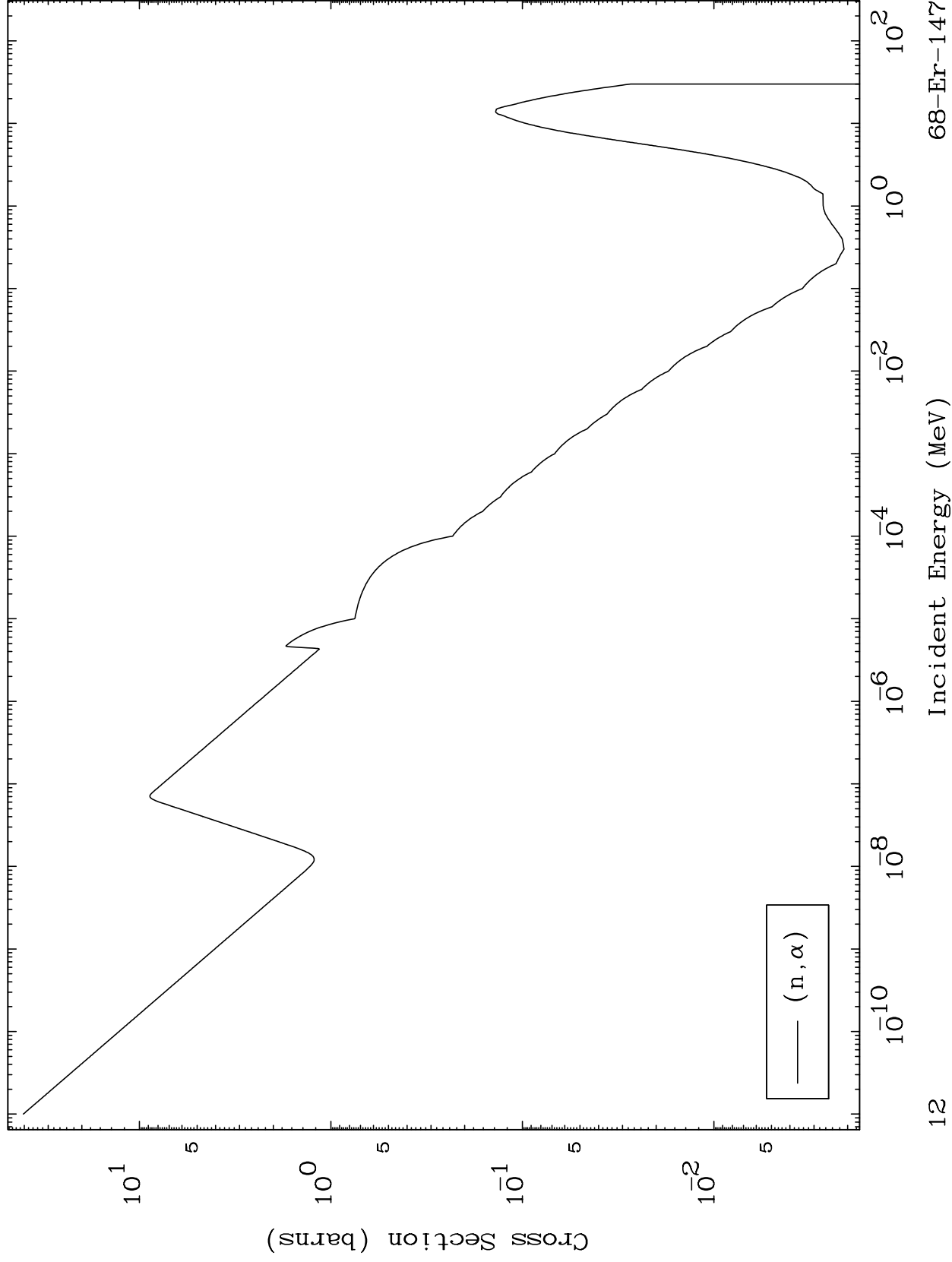
68-Er-147

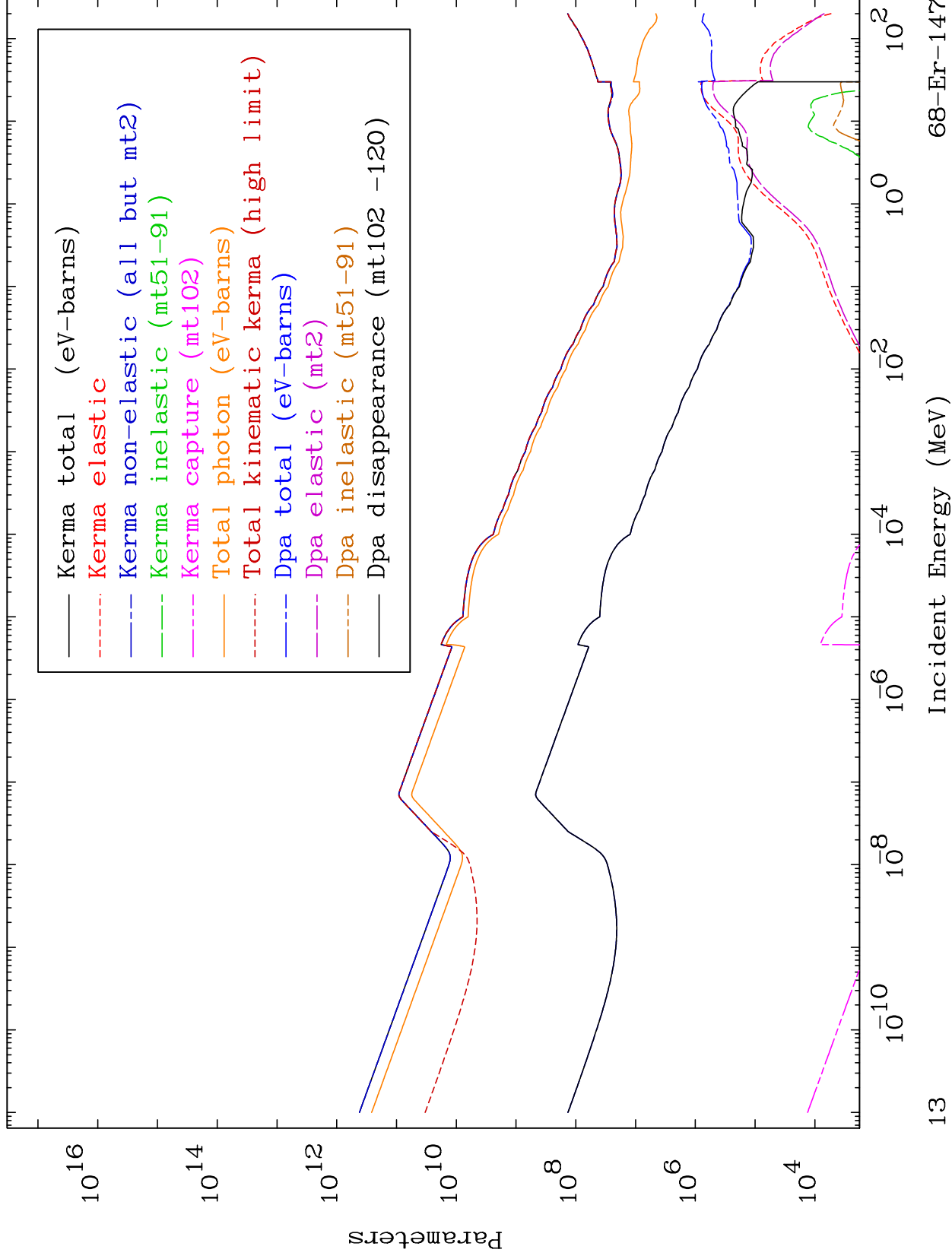


MAT 6781

(n,α) Levels  
293 Kelvin Cross Sections

68-Er-147







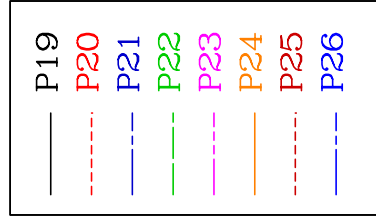




MAT 6781

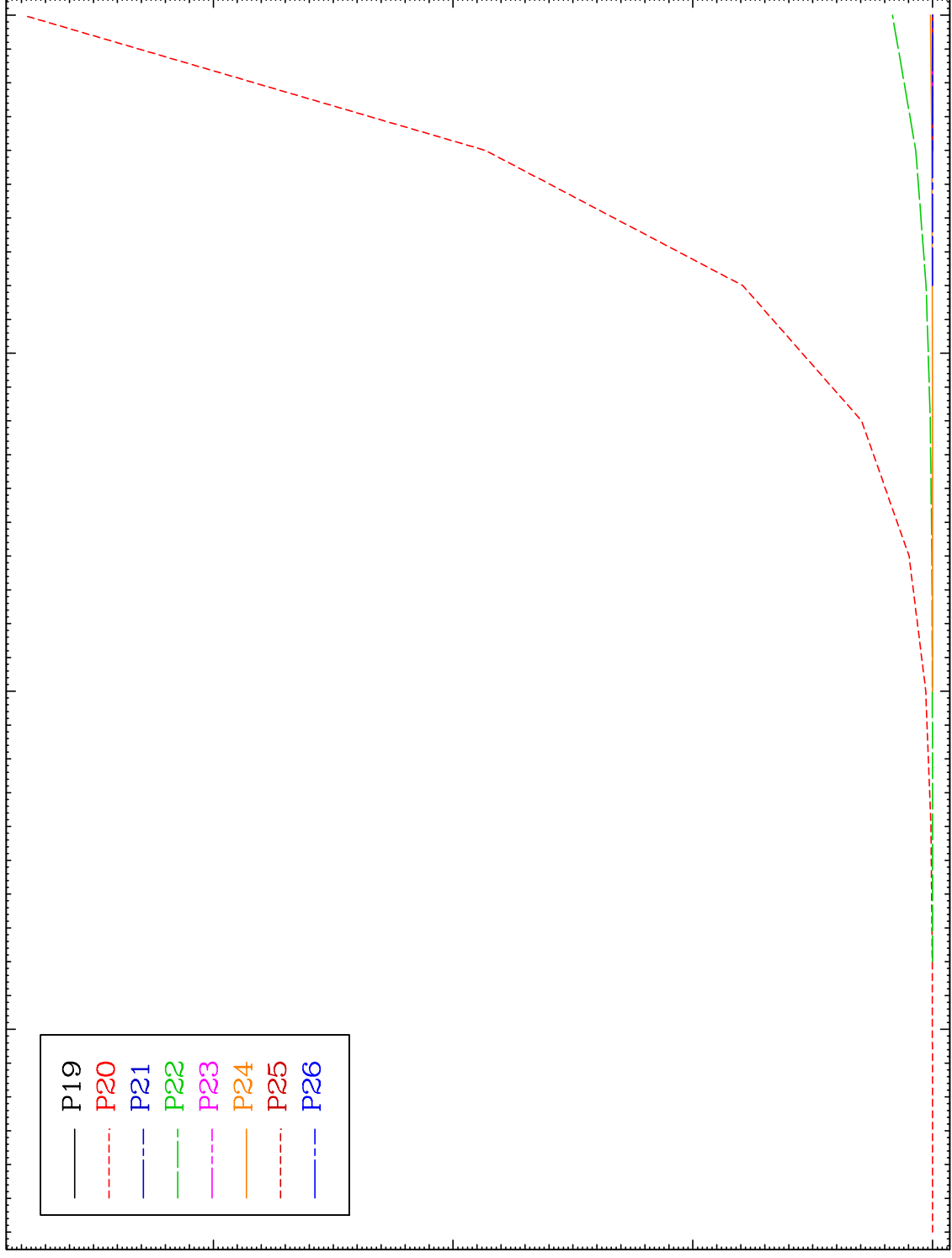
Elastic  
Legendre Coefficients

68-Er-147



$\times 10^{-6}$

Legendre (CM)



16

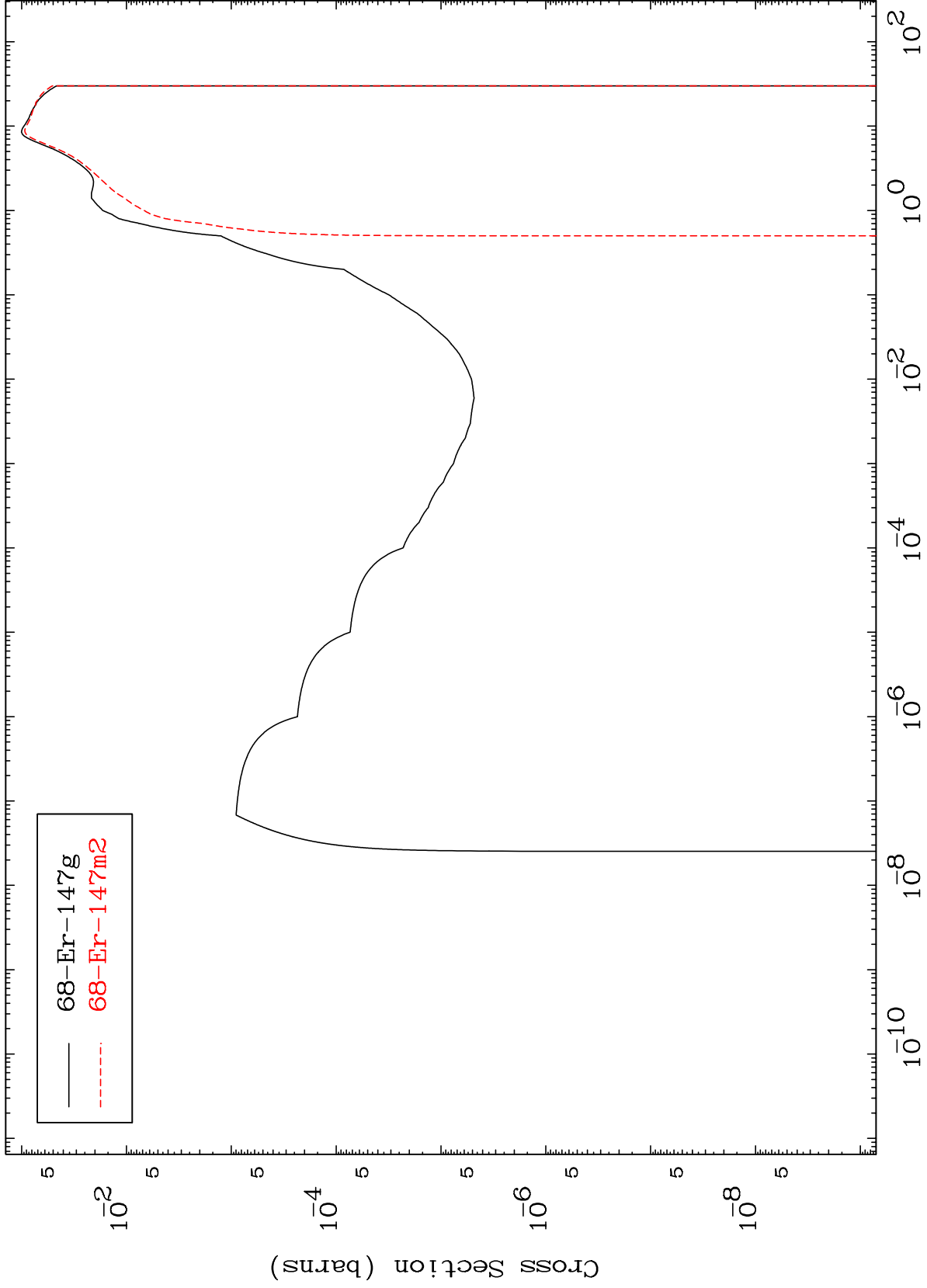
Incident Energy (MeV)

68-Er-147

MAT 6781

Inelastic  
Radionuclide Production Cross Section

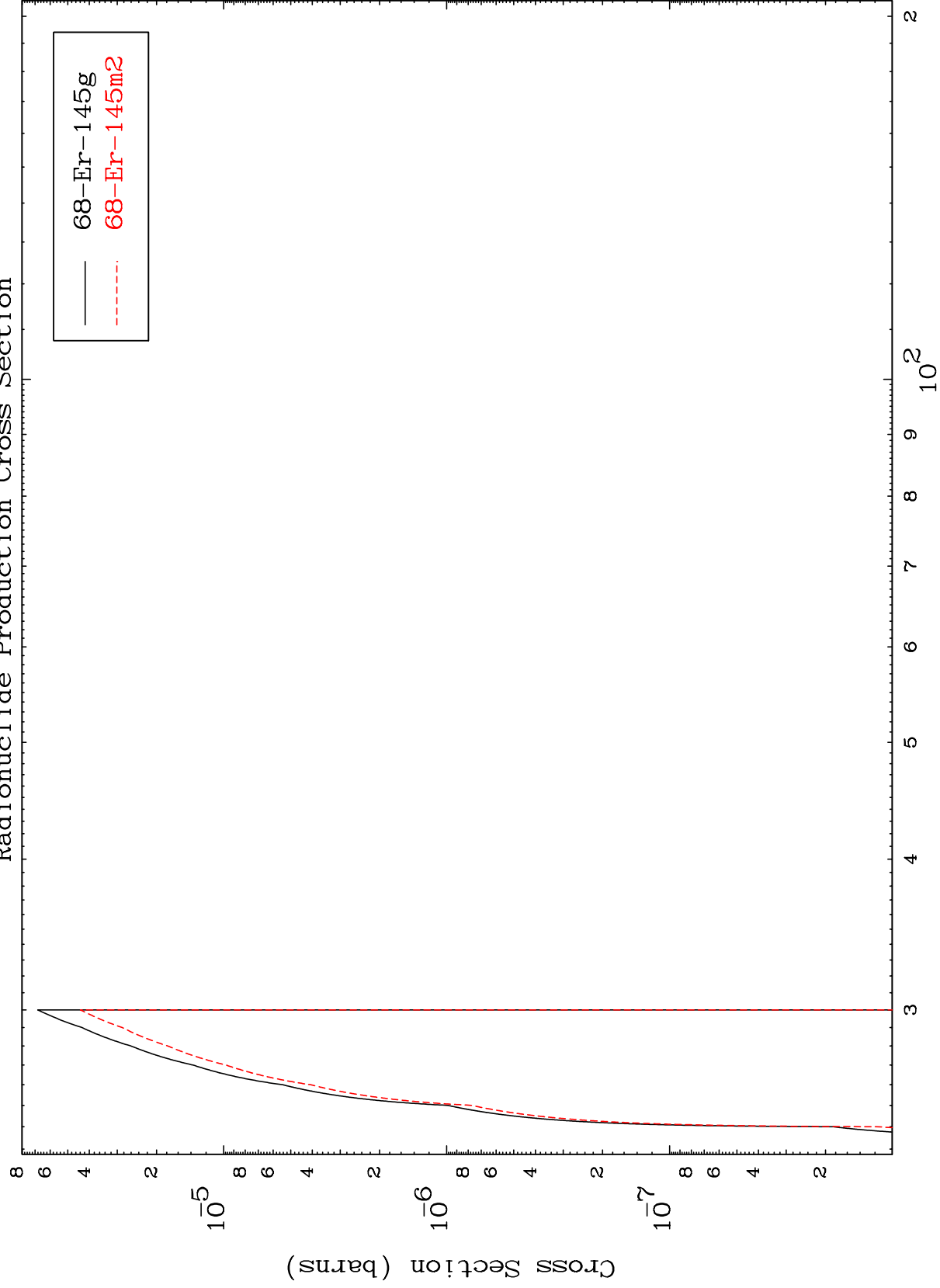
68-Er-147



MAT 6781

68-Er-147

(n,3n)  
Radionuclide Production Cross Section



18

Incident Energy (MeV)

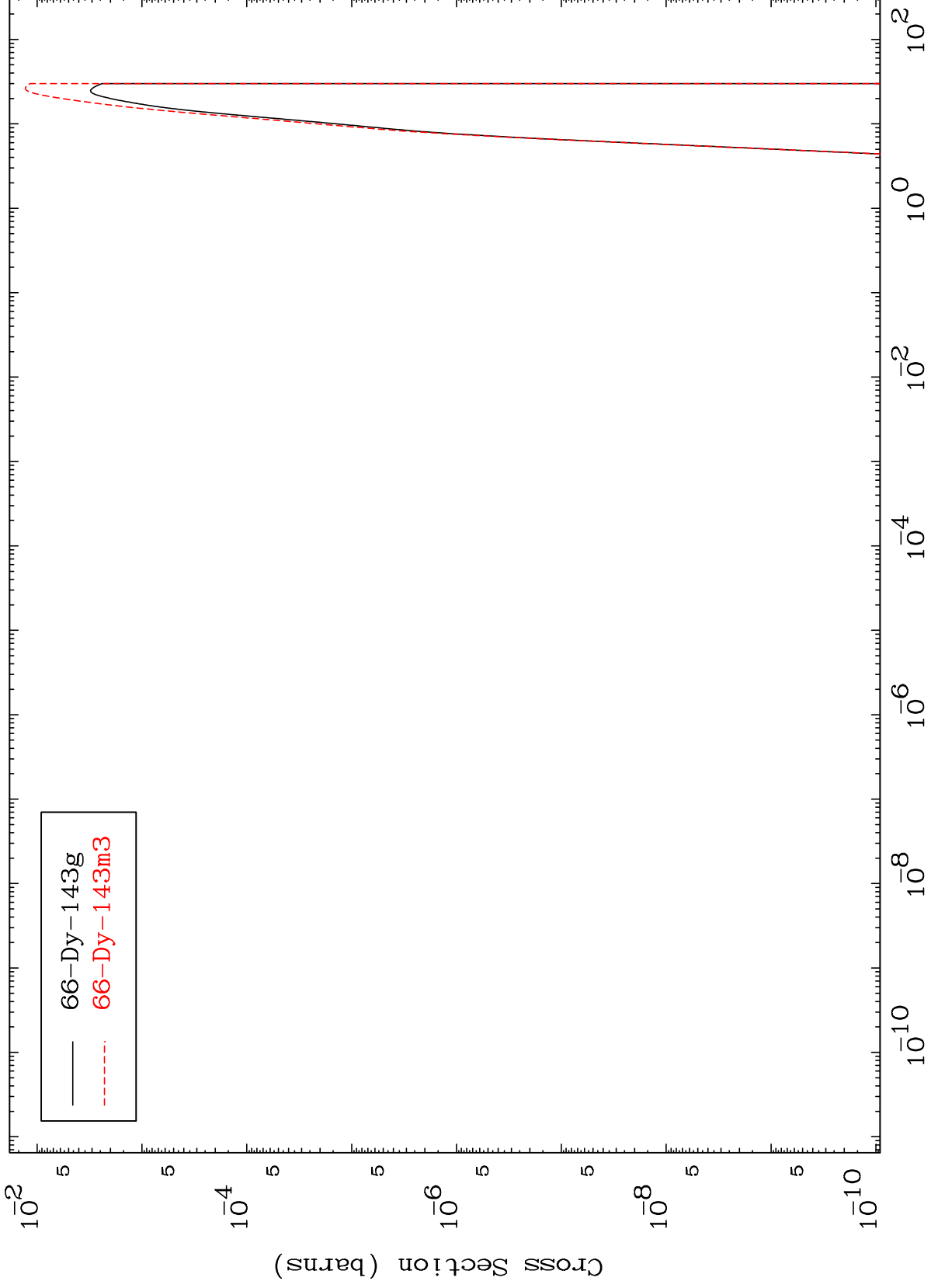
68-Er-147

MAT 6781

$(n, n') \alpha$

68-Er-147

Radionuclide Production Cross Section

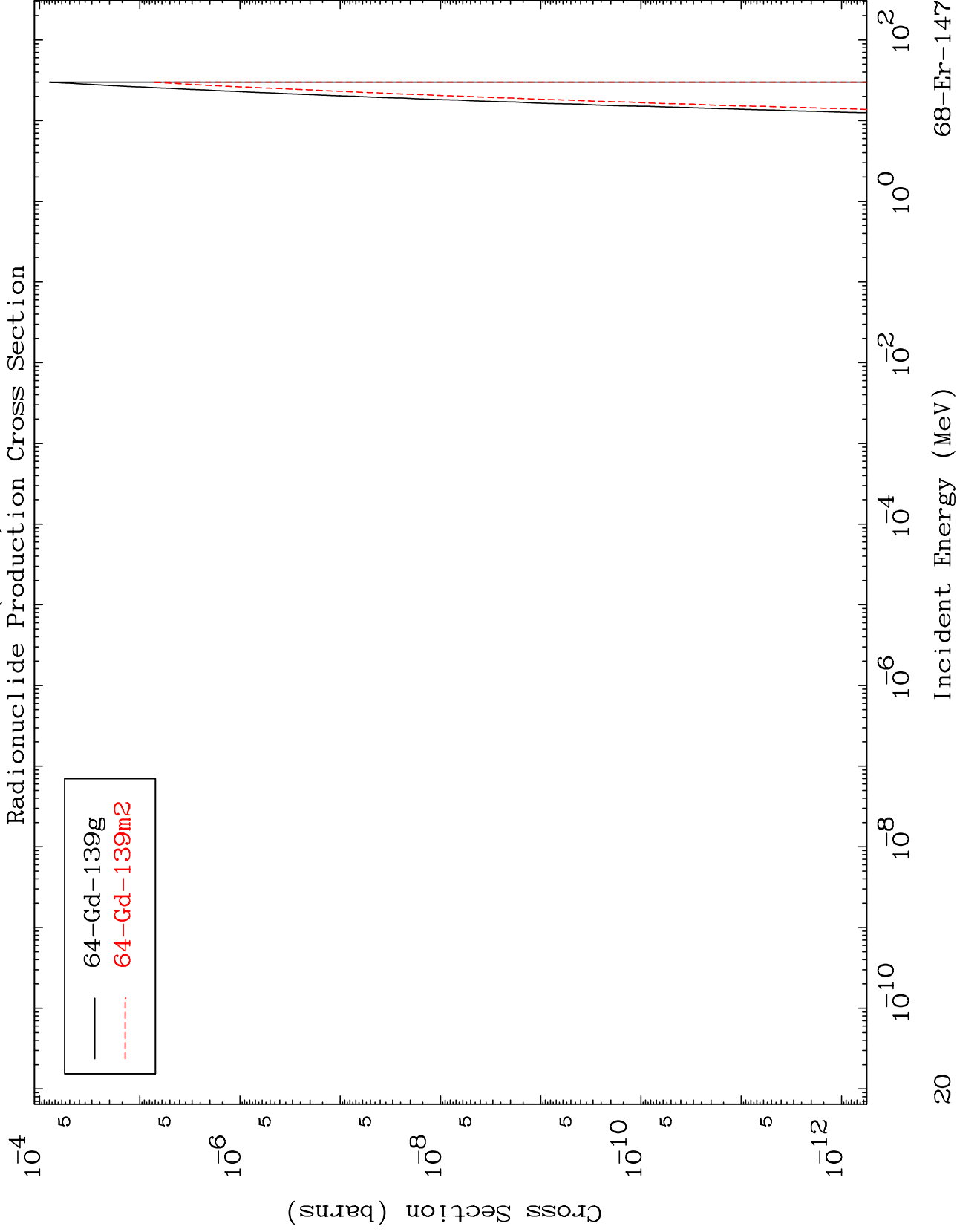


MAT 6781

(n,n') 2α

68-Er-147

Radionuclide Production Cross Section

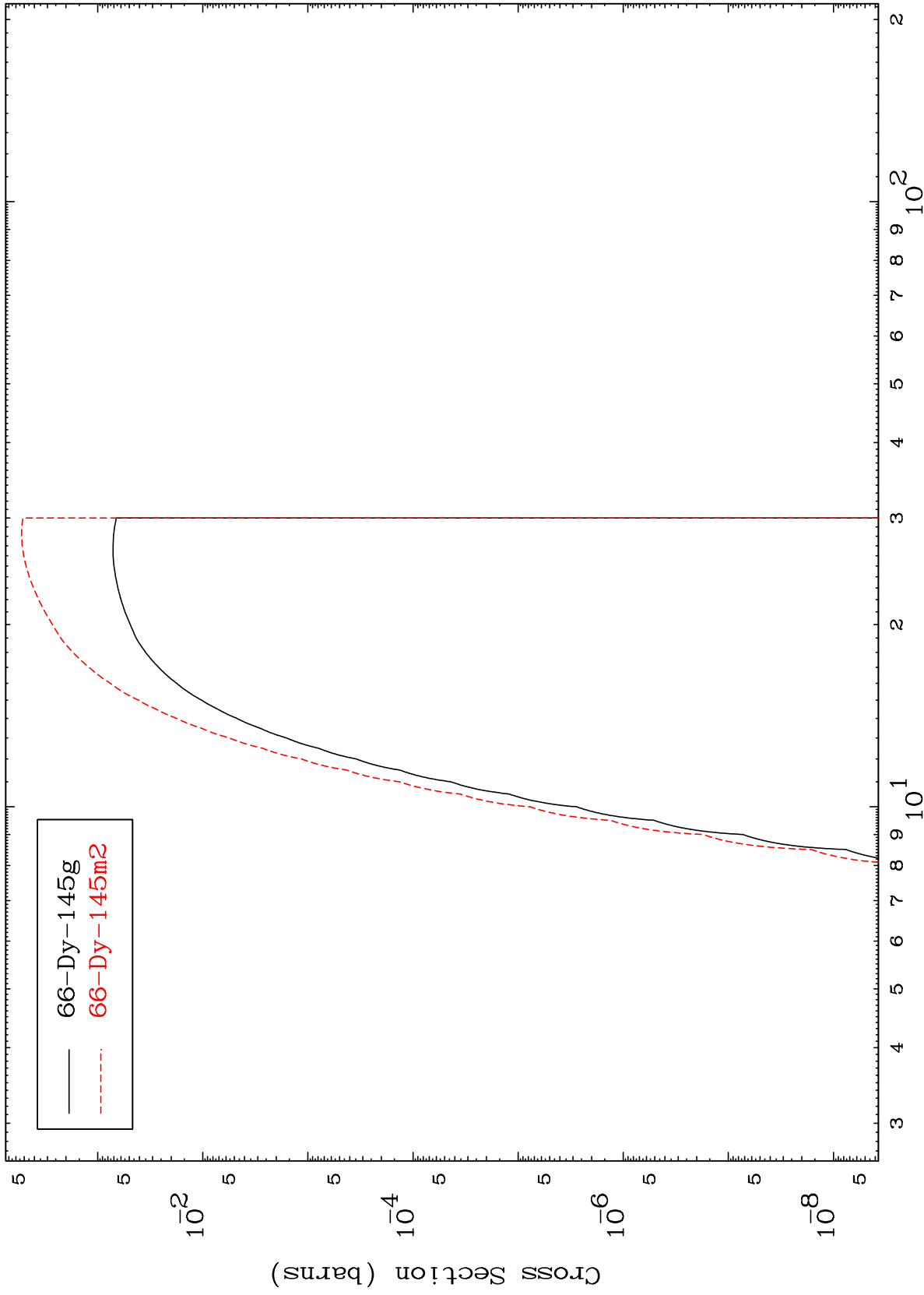


MAT 6781

(n,2n) p

68-Er-147

Radionuclide Production Cross Section

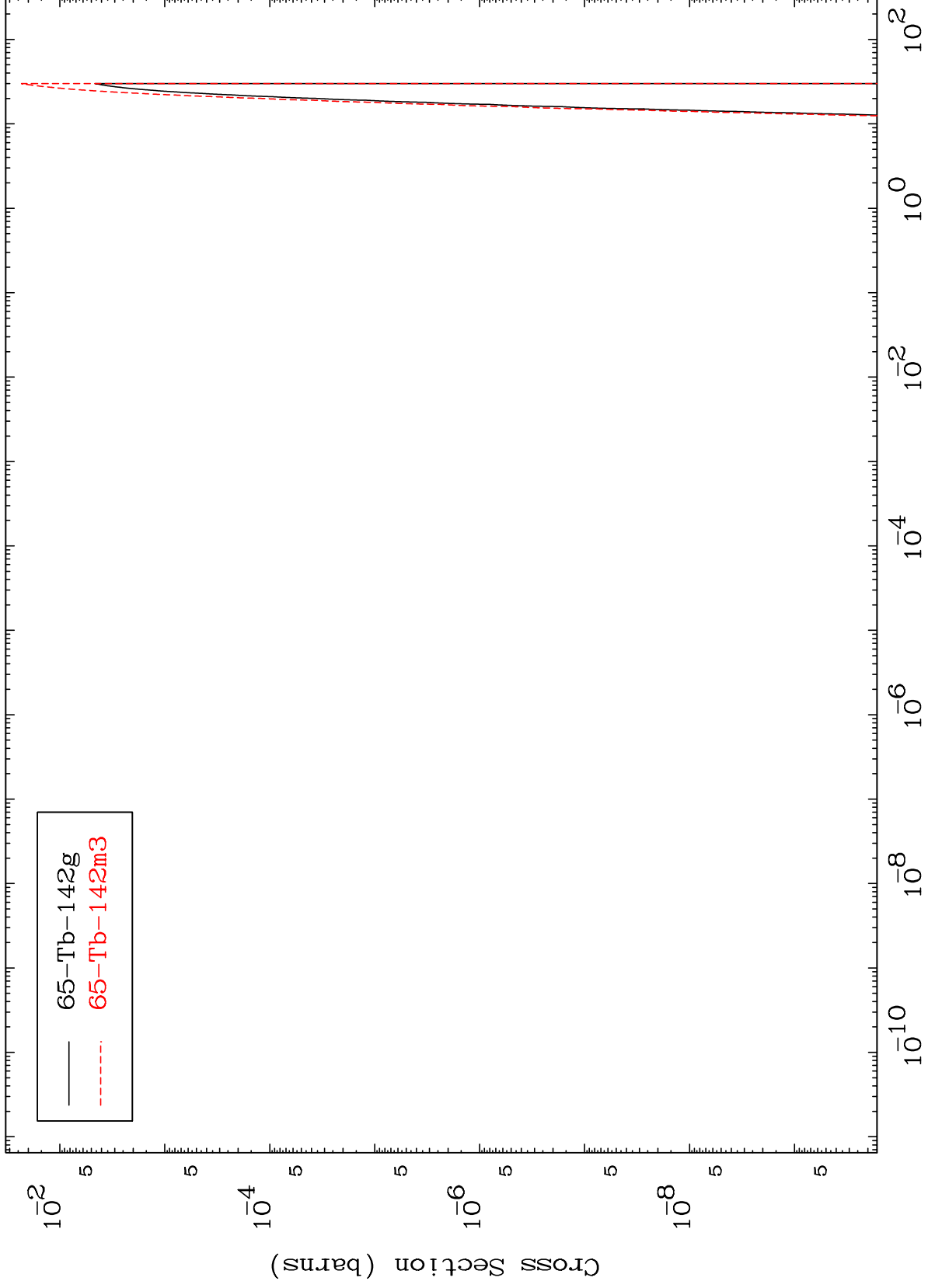


MAT 6781

(n,n') p  $\alpha$

68-Er-147

Radionuclide Production Cross Section



22

Incident Energy (MeV)

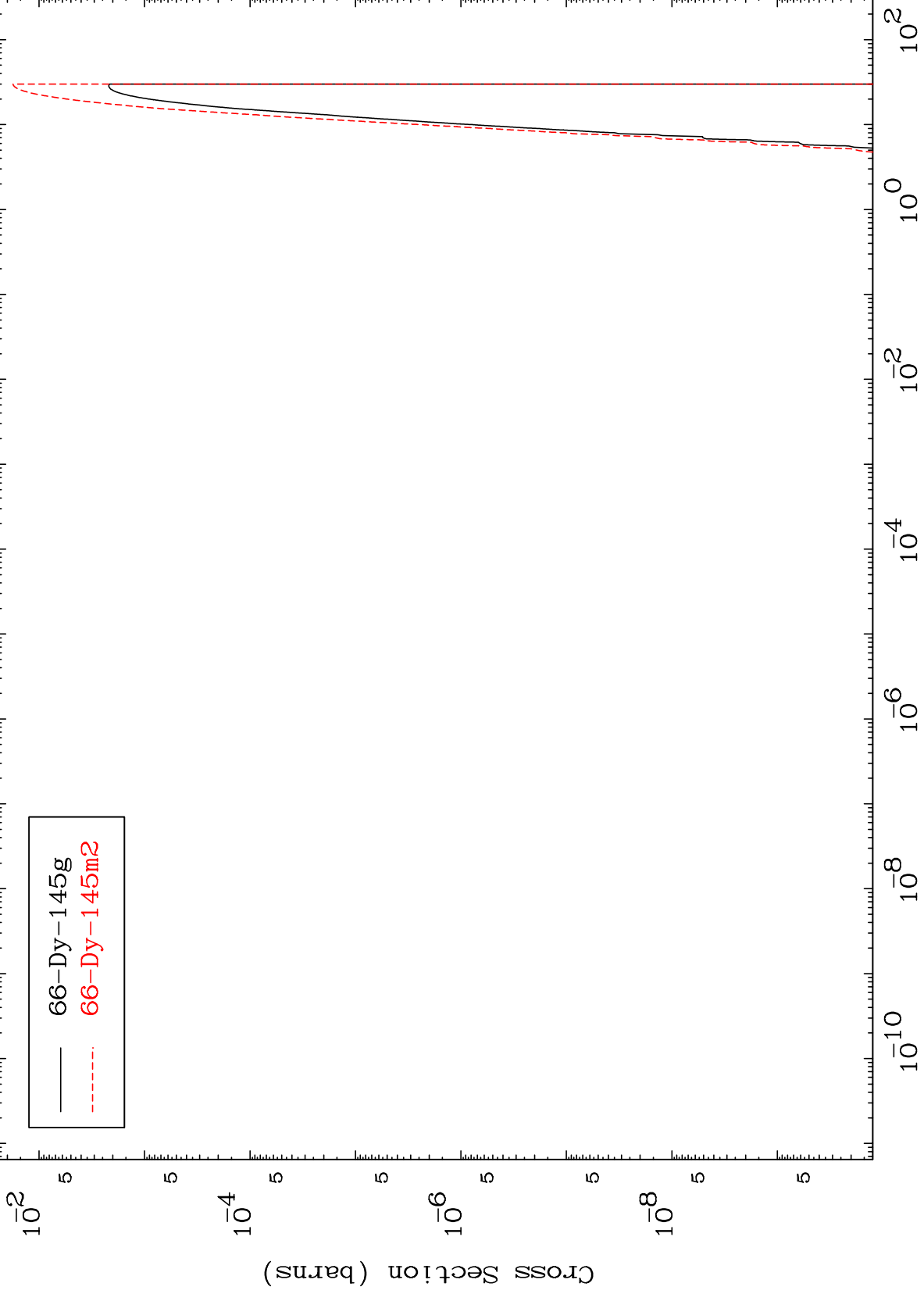
68-Er-147

MAT 6781

(n,He-3)

68-Er-147

Radionuclide Production Cross Section



66-Dy-145g  
66-Dy-145m2

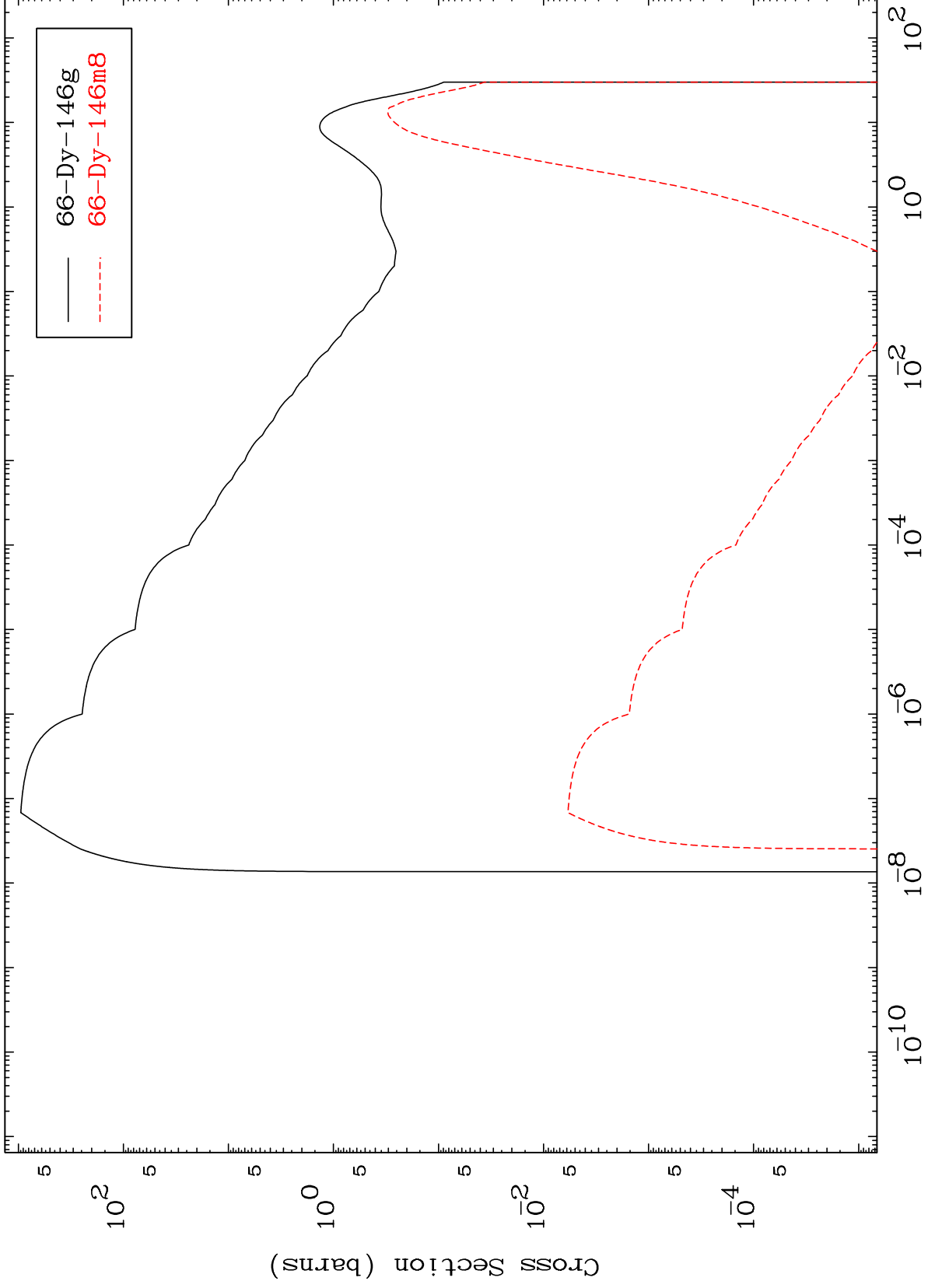
Incident Energy (MeV)

68-Er-147

23



(n,2p)  
Radionuclide Production Cross Section

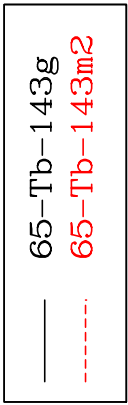
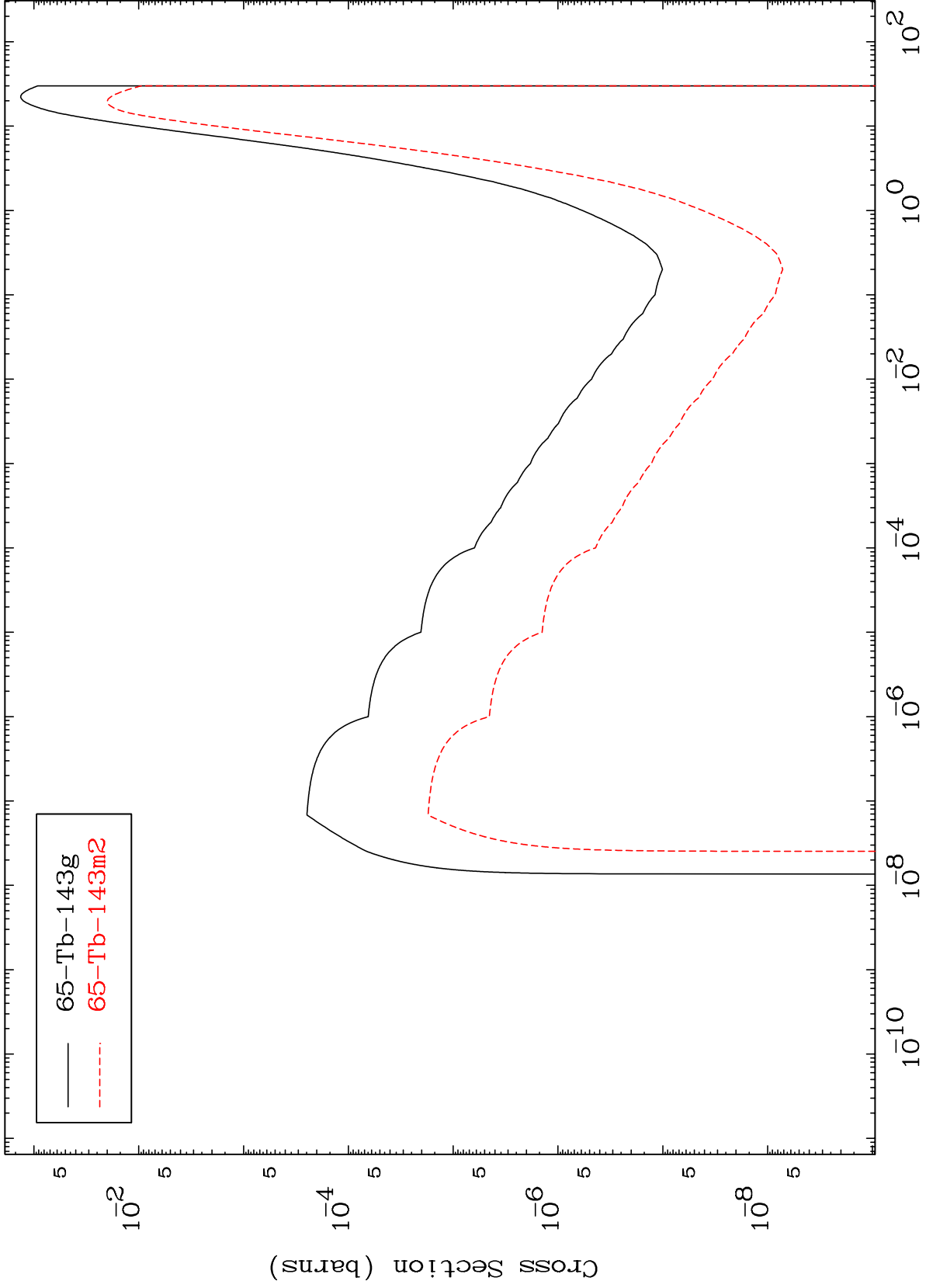


MAT 6781

(n,p)  $\alpha$

68-Er-147

Radionuclide Production Cross Section



25

Incident Energy (MeV)

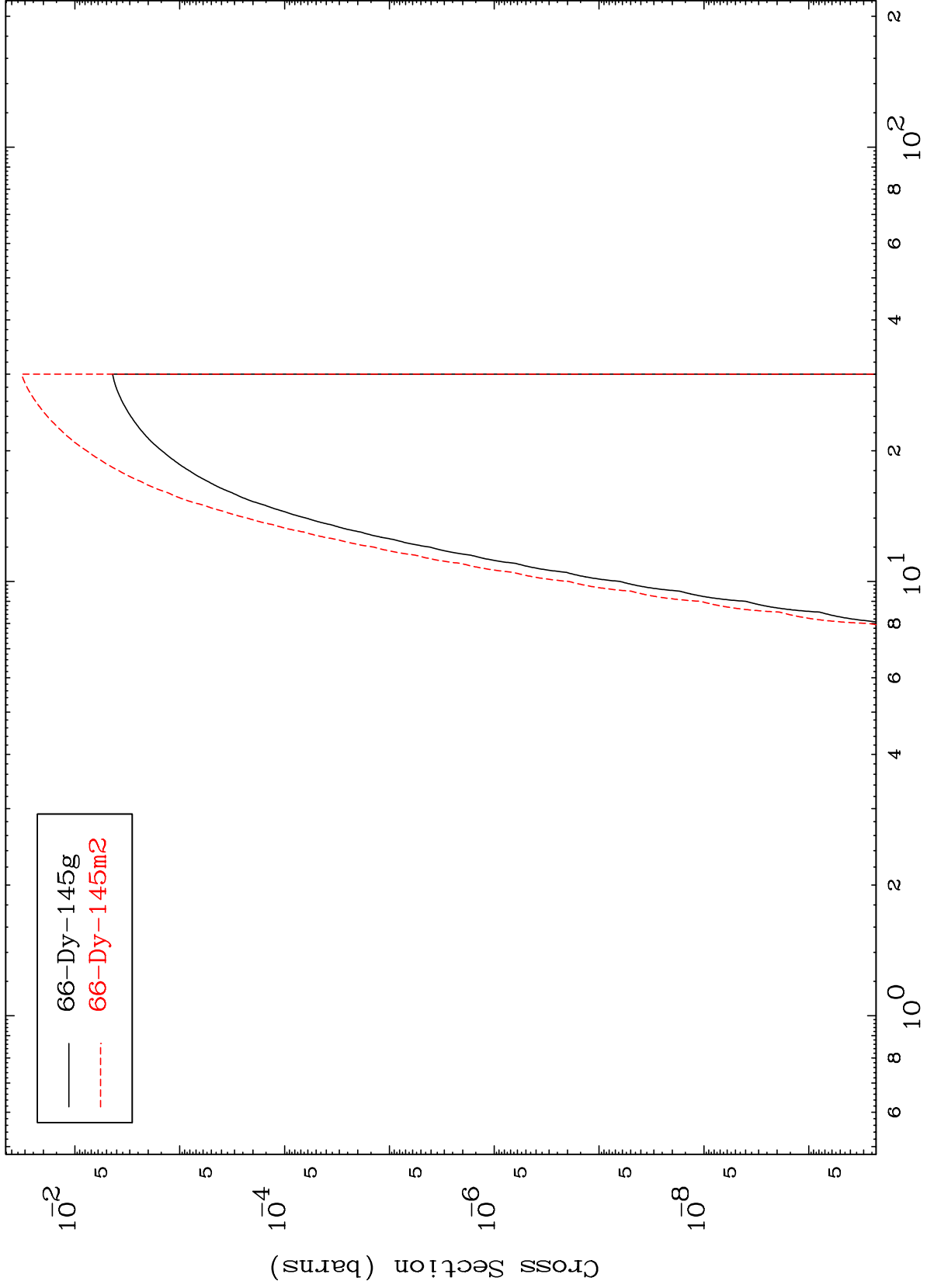
68-Er-147

MAT 6781

(n,p) d

68-Er-147

Radionuclide Production Cross Section



66-Dy-145g  
66-Dy-145m2

26

Incident Energy (MeV)

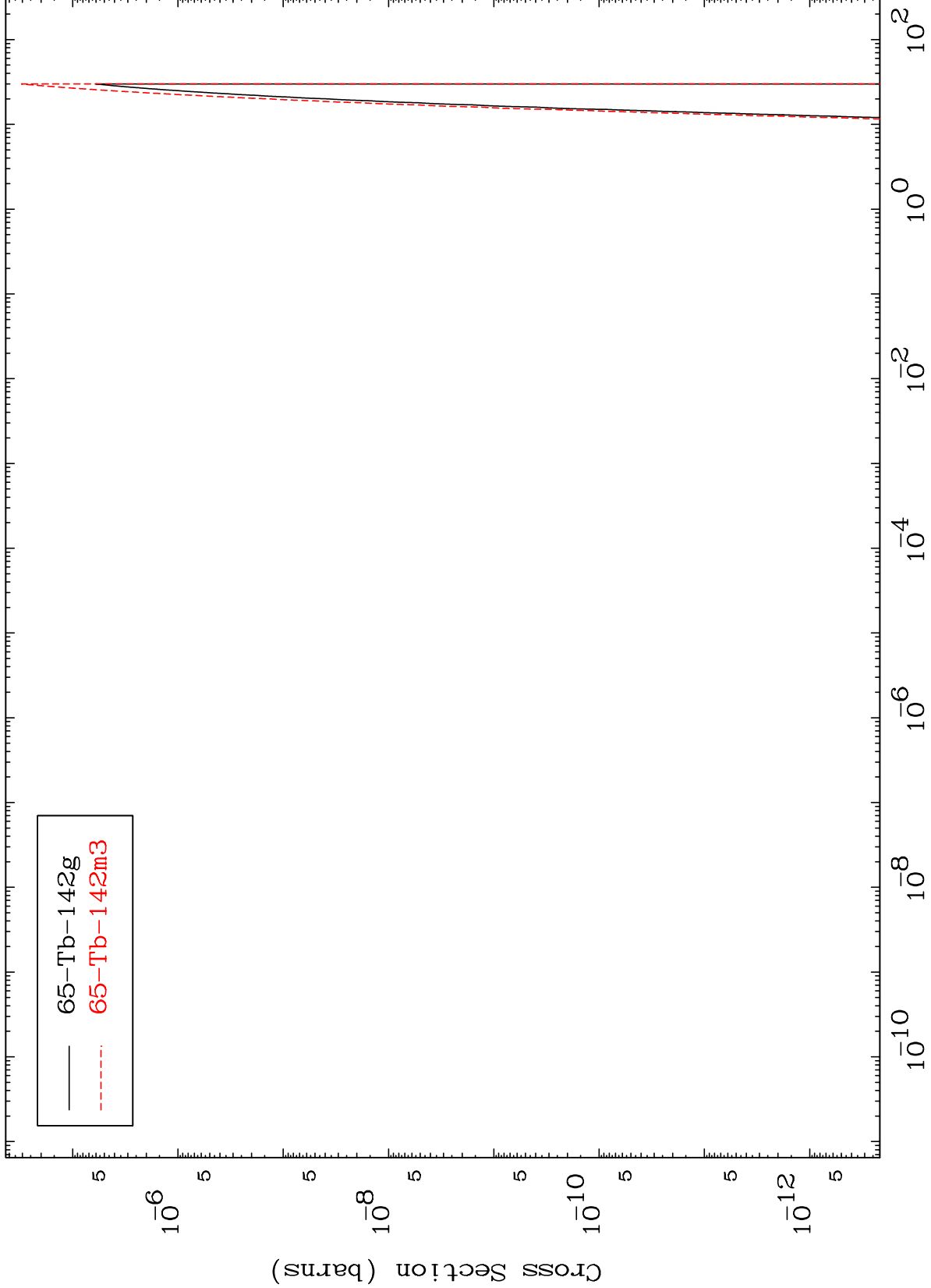
68-Er-147

MAT 6781

(n,d)  $\alpha$

68-Er-147

Radionuclide Production Cross Section



65-Tb-142g  
65-Tb-142m3