

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)

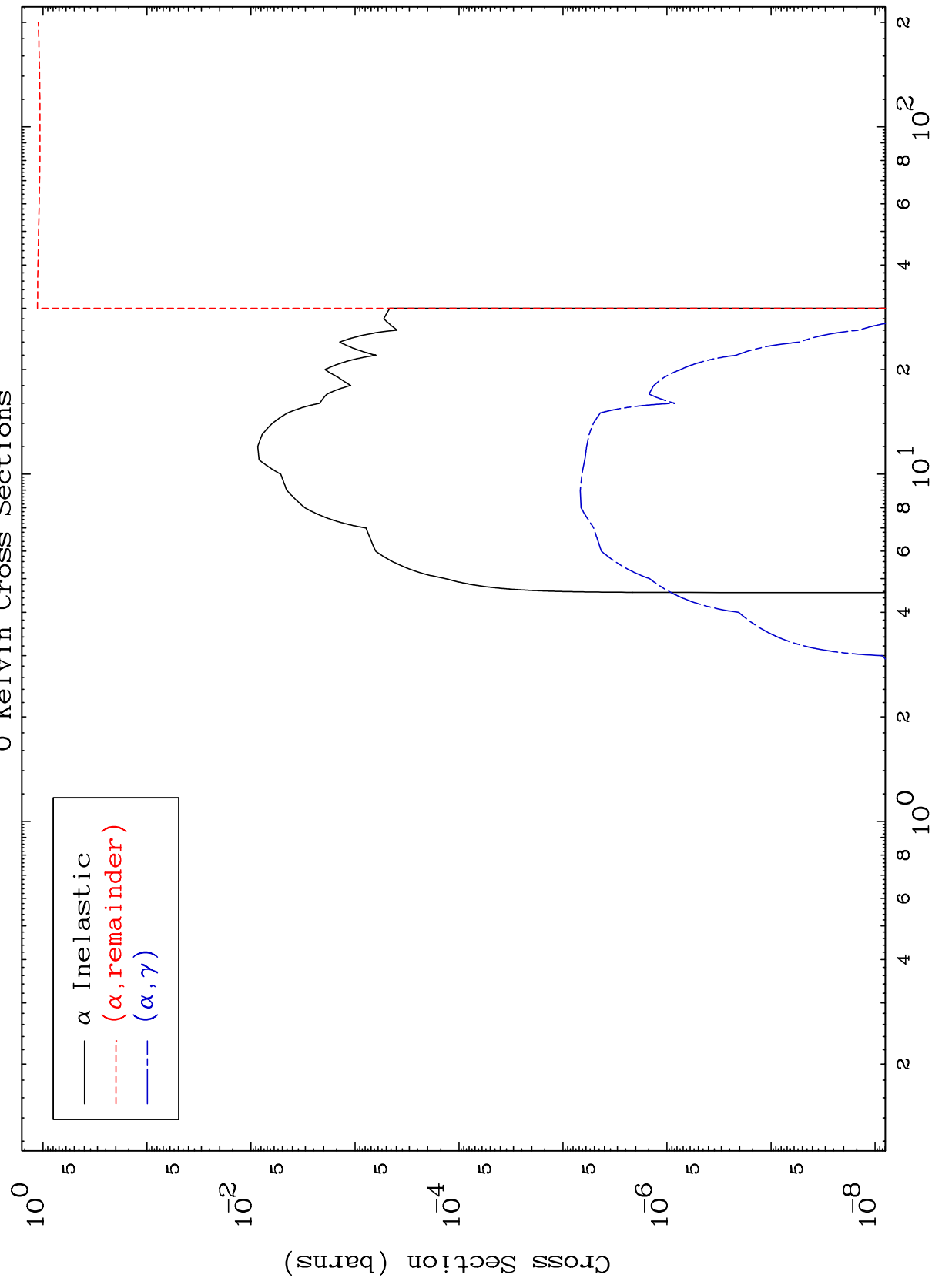
Press Mouse Button to Start

MAT 1422

0 Kelvin

$\alpha$  Major Cross Sections

14-Si-27

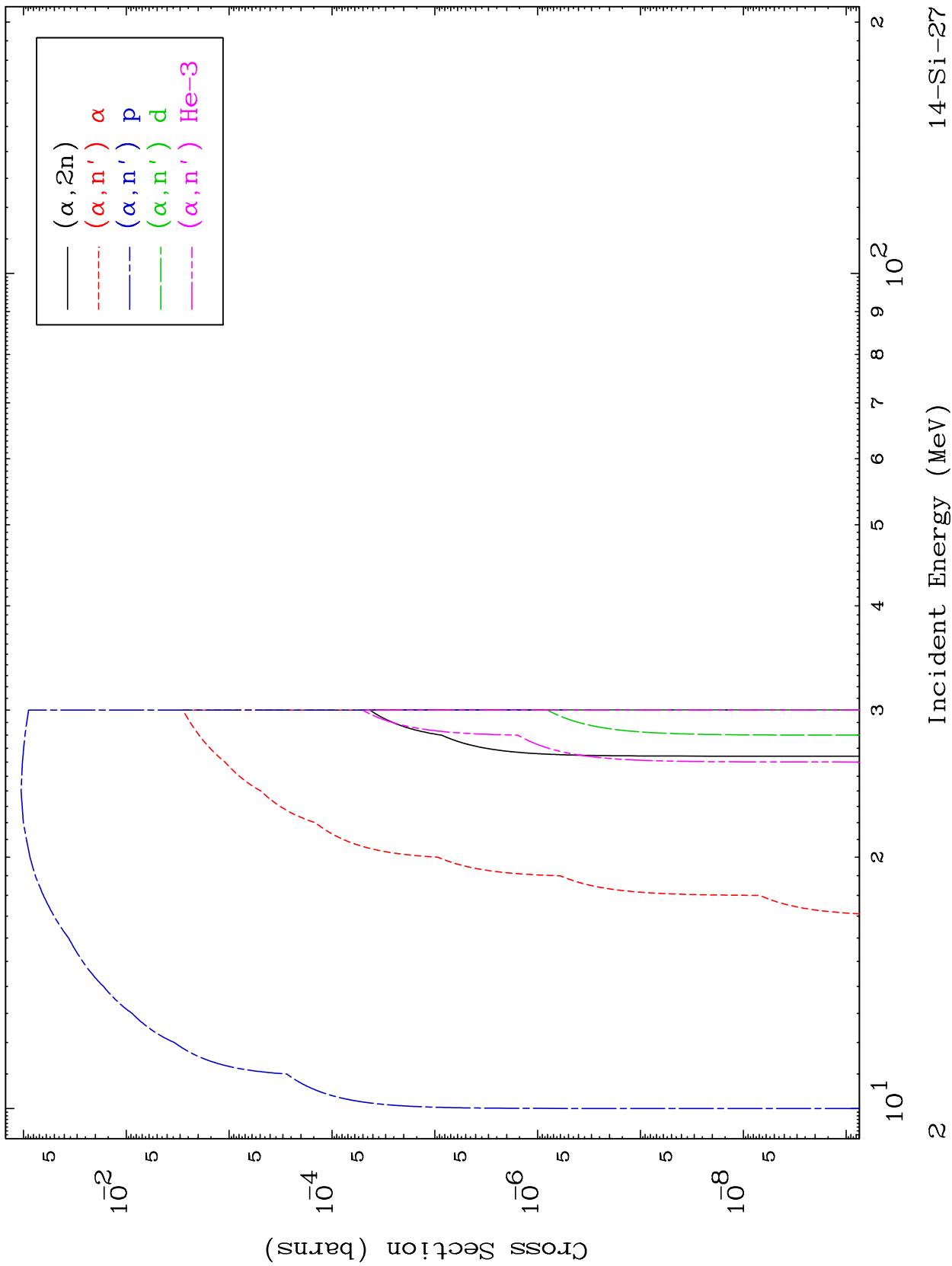


$\alpha$  Inelastic  
( $\alpha$ , remainder)  
( $\alpha$ ,  $\gamma$ )

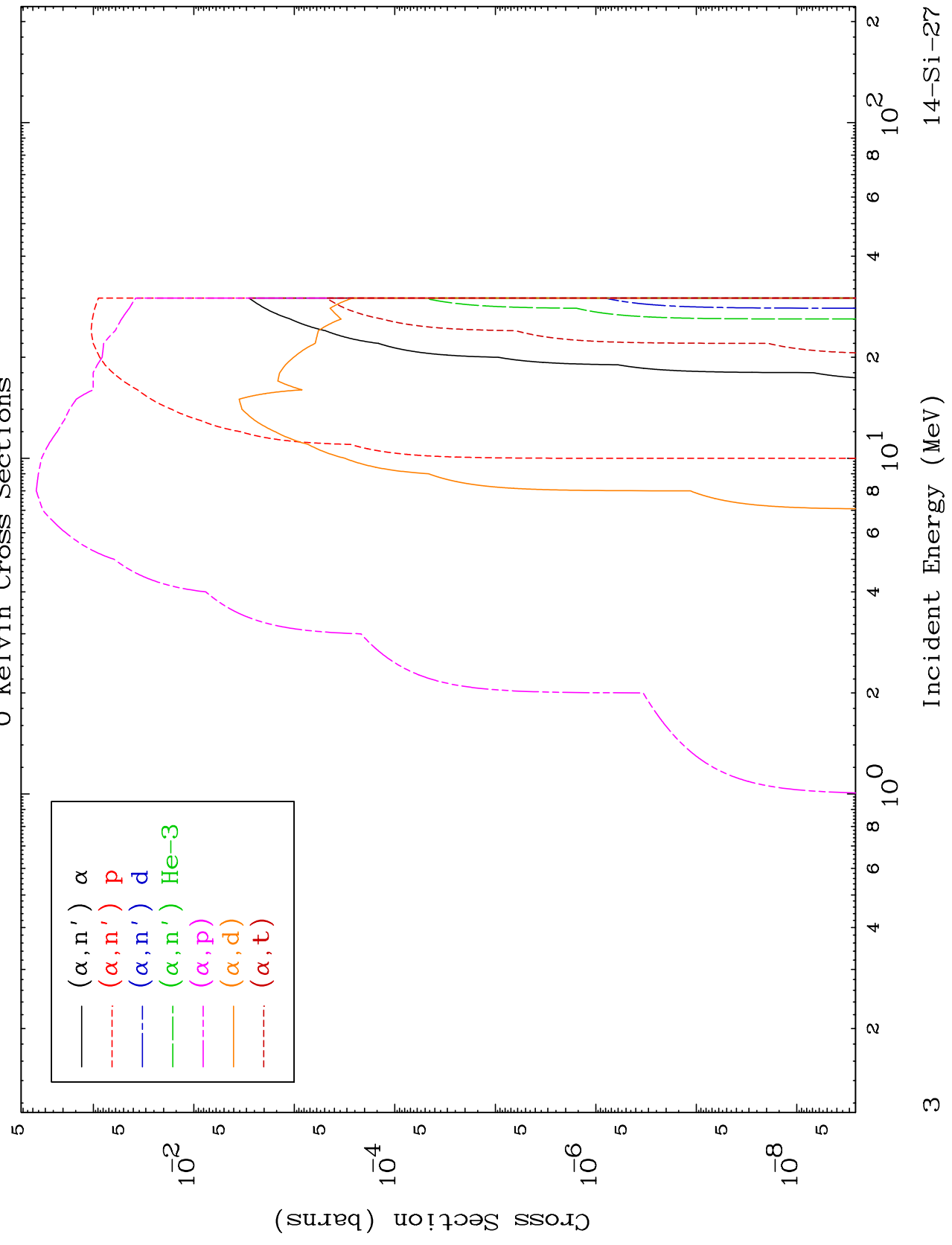
MAT 1422

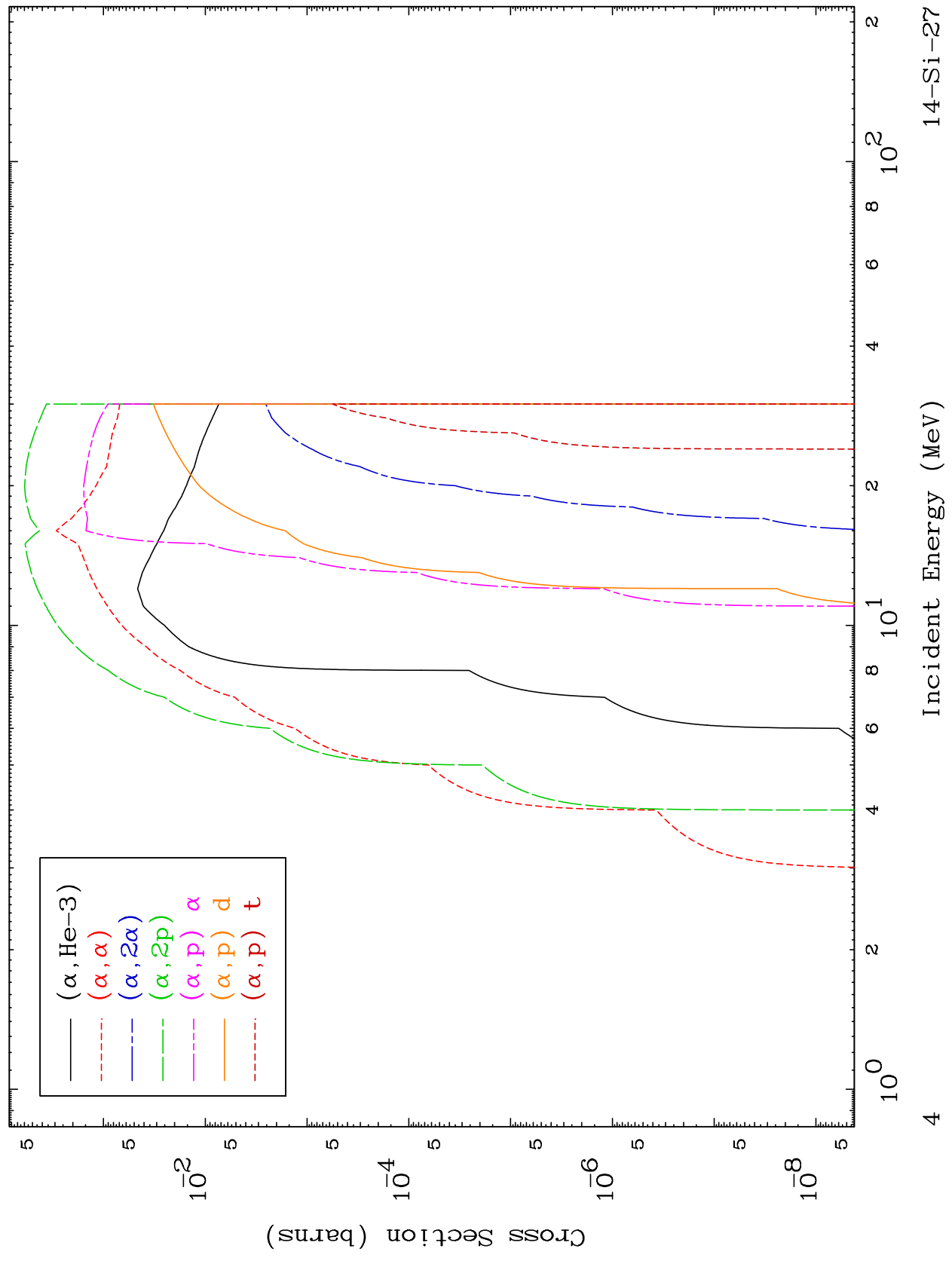
$\alpha$  Neutron Production  
0 Kelvin Cross Sections

14-Si-27



14-Si-27

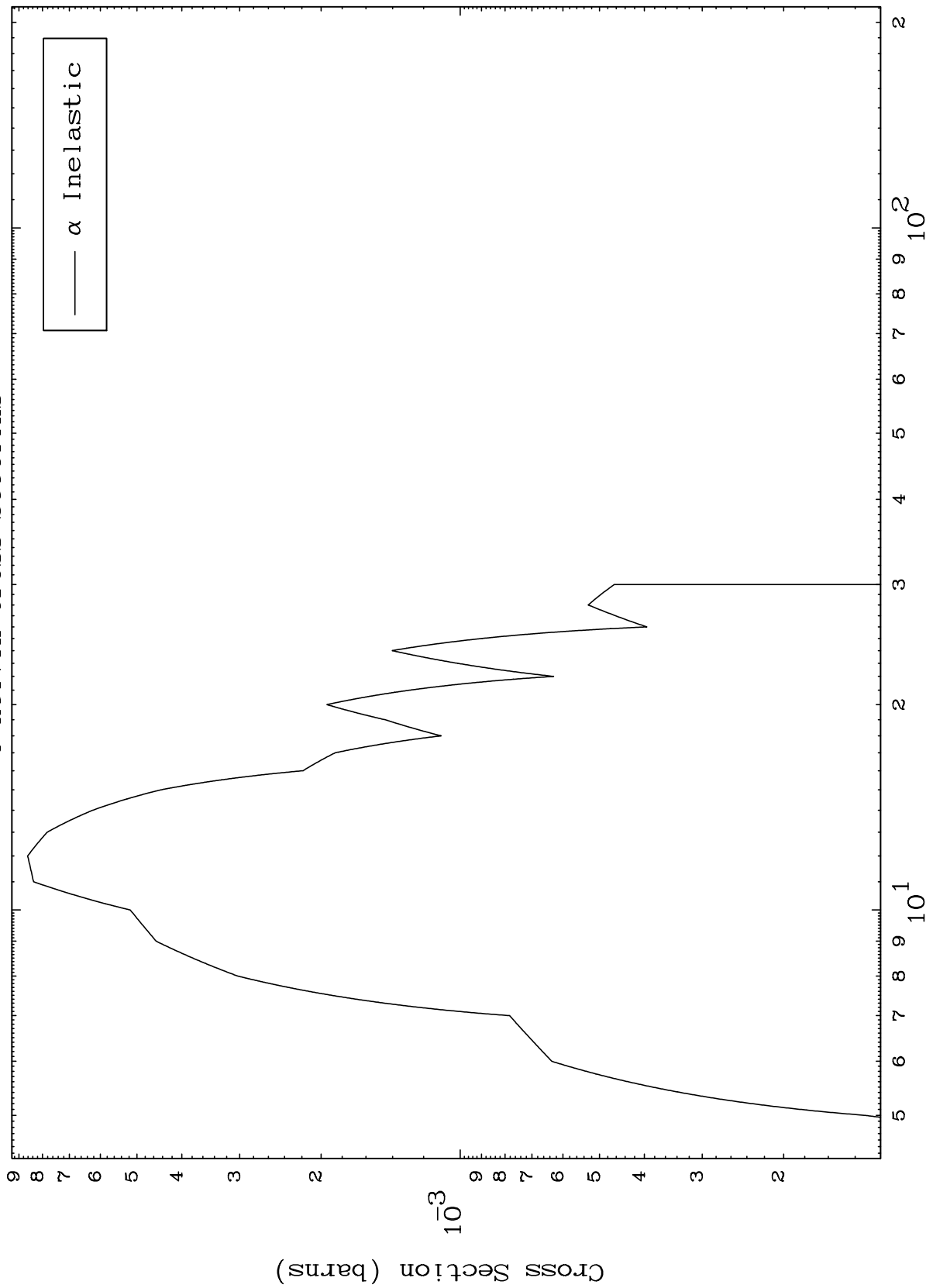




MAT 1422

14-Si-27

( $\alpha, n'$ ) Level  
0 Kelvin Cross Sections



14-Si-27

Incident Energy (MeV)

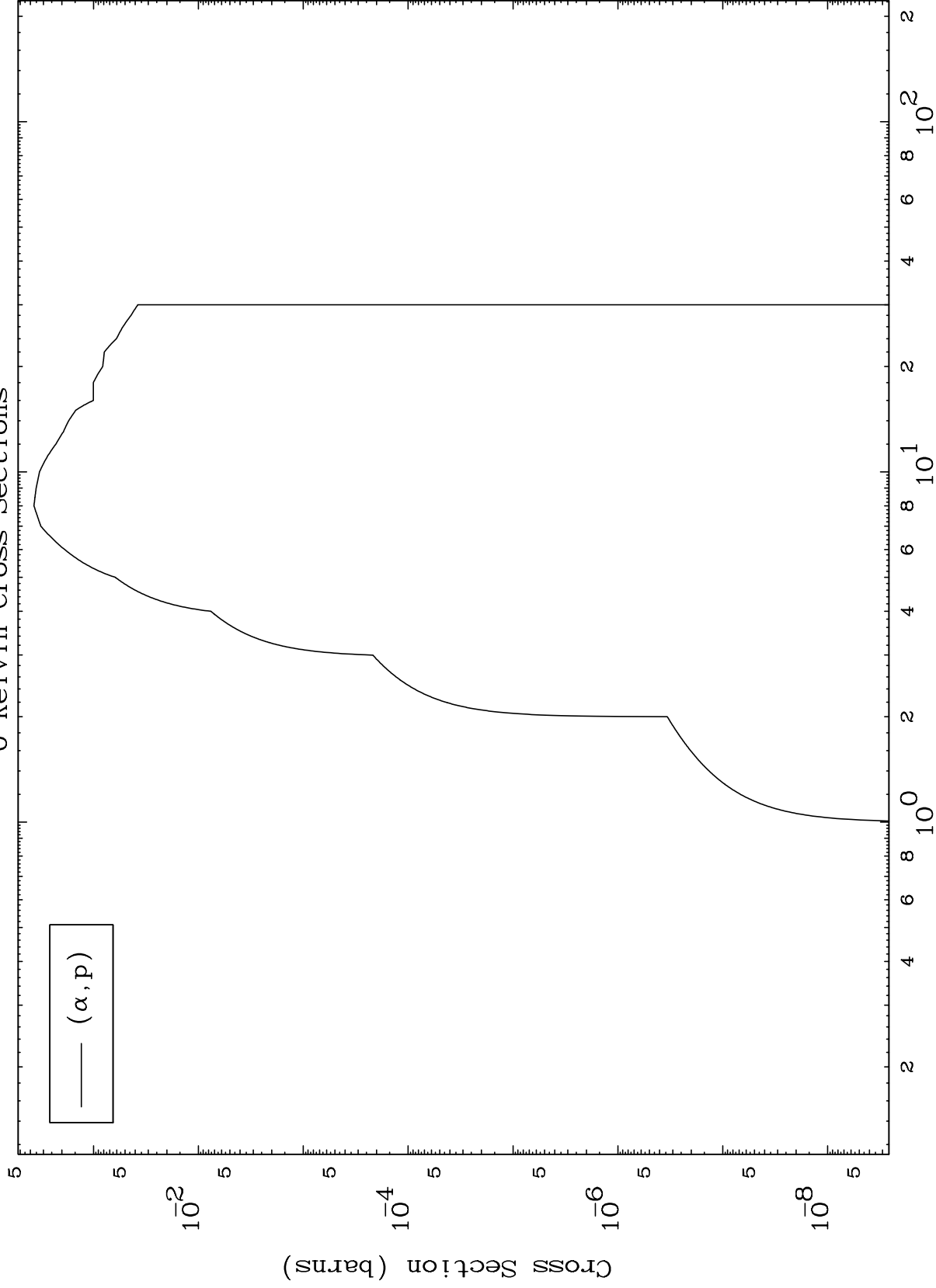
5

MAT 1422

( $\alpha, p$ ) Levels

14-Si-27

0 Kelvin Cross Sections



6

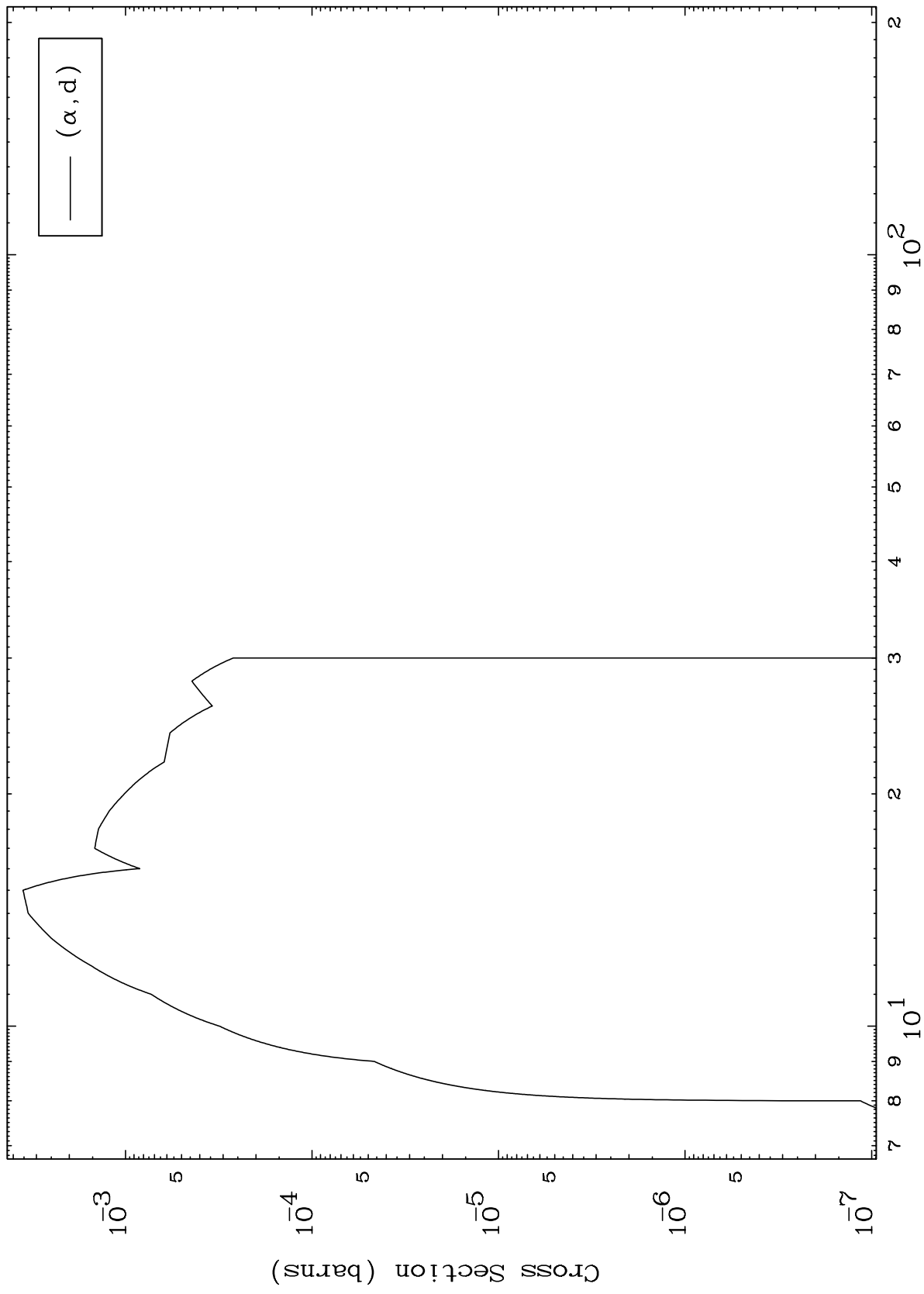
Incident Energy (MeV)

14-Si-27

MAT 1422

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

14-Si-27



Incident Energy (MeV)

14-Si-27

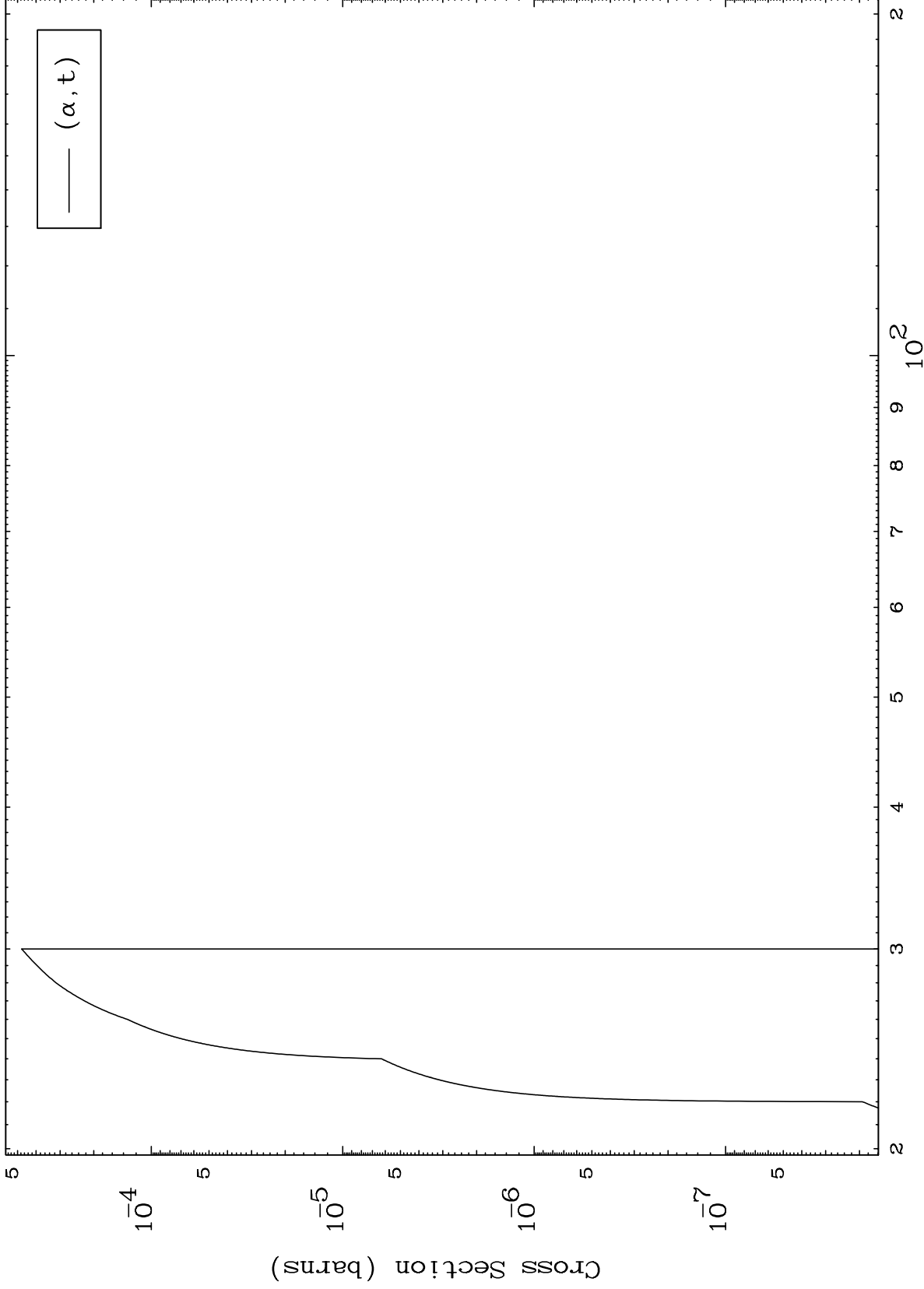
7



MAT 1422

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

$^{14}\text{Si}-27$



$^{14}\text{Si}-27$

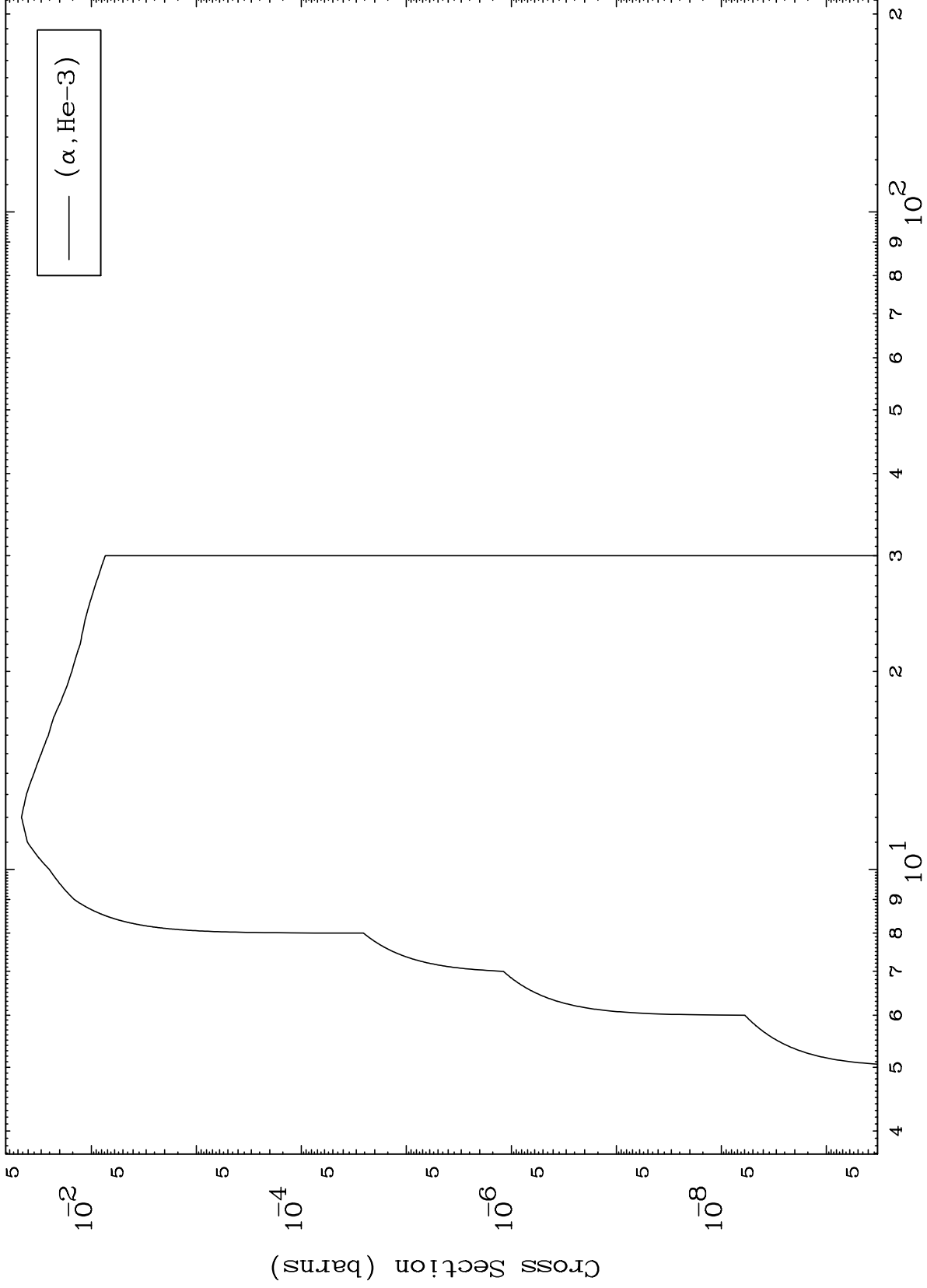
Incident Energy (MeV)

8

MAT 1422

( $\alpha$ , He3) Levels  
0 Kelvin Cross Sections

14-Si-27



9

Incident Energy (MeV)

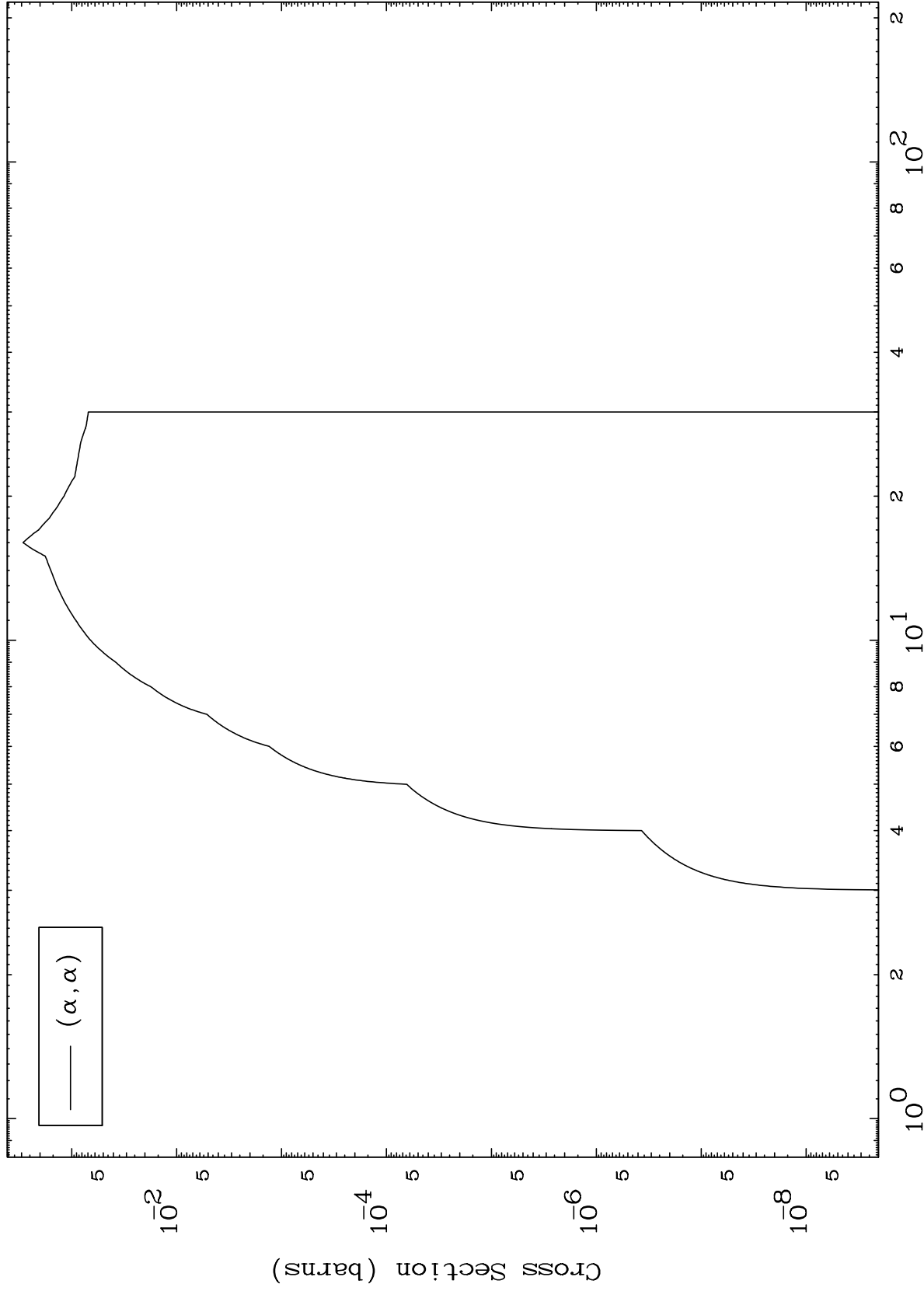
14-Si-27

MAT 1422

( $\alpha, \alpha$ ) Levels

14-Si-27

0 Kelvin Cross Sections



Incident Energy (MeV)

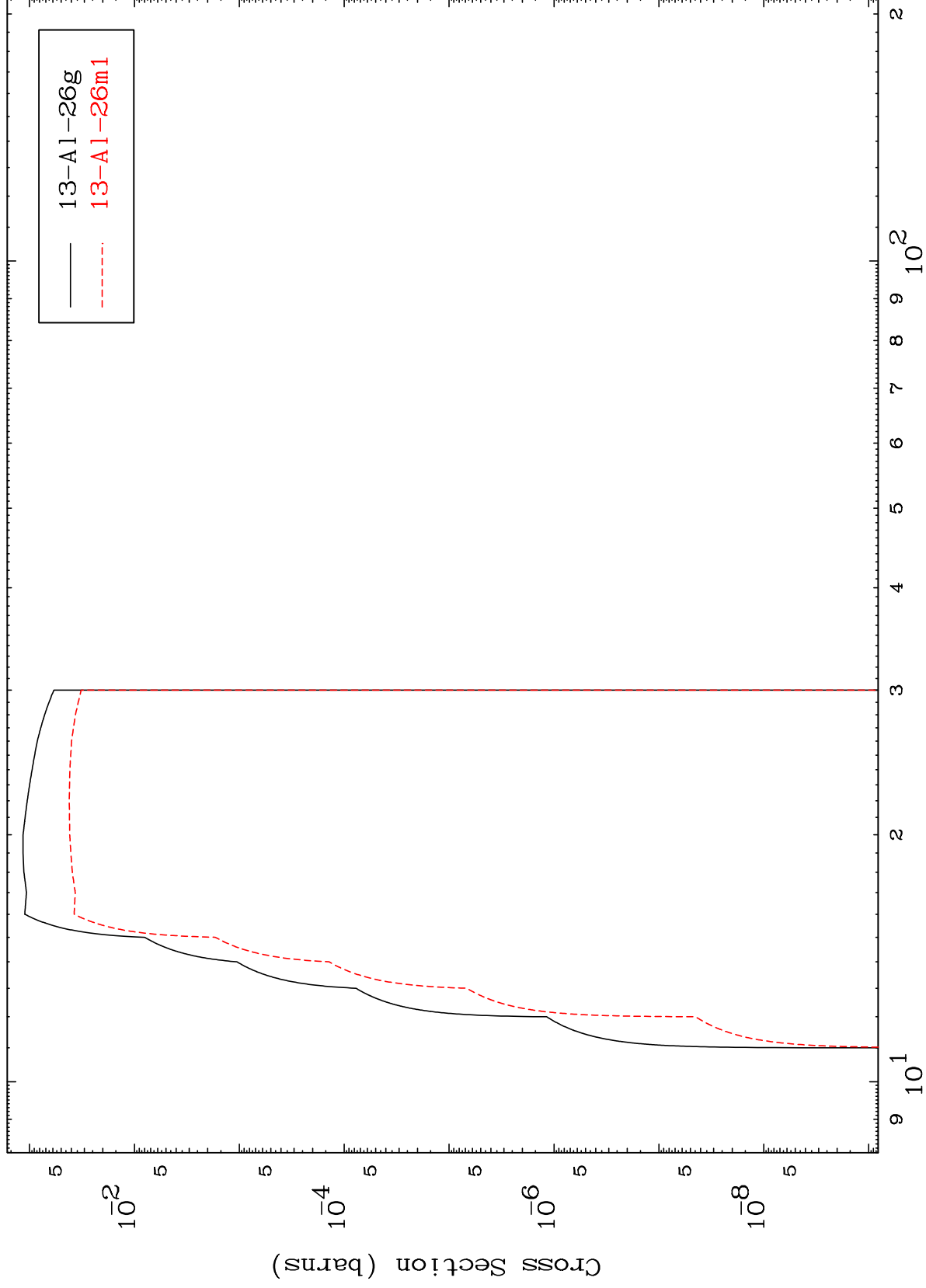
14-Si-27

MAT 1422

( $\alpha, p$ )  $\alpha$

$^{14}\text{Si}-27$

Radionuclide Production Cross Section



11

Incident Energy (MeV)

$^{14}\text{Si}-27$