

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

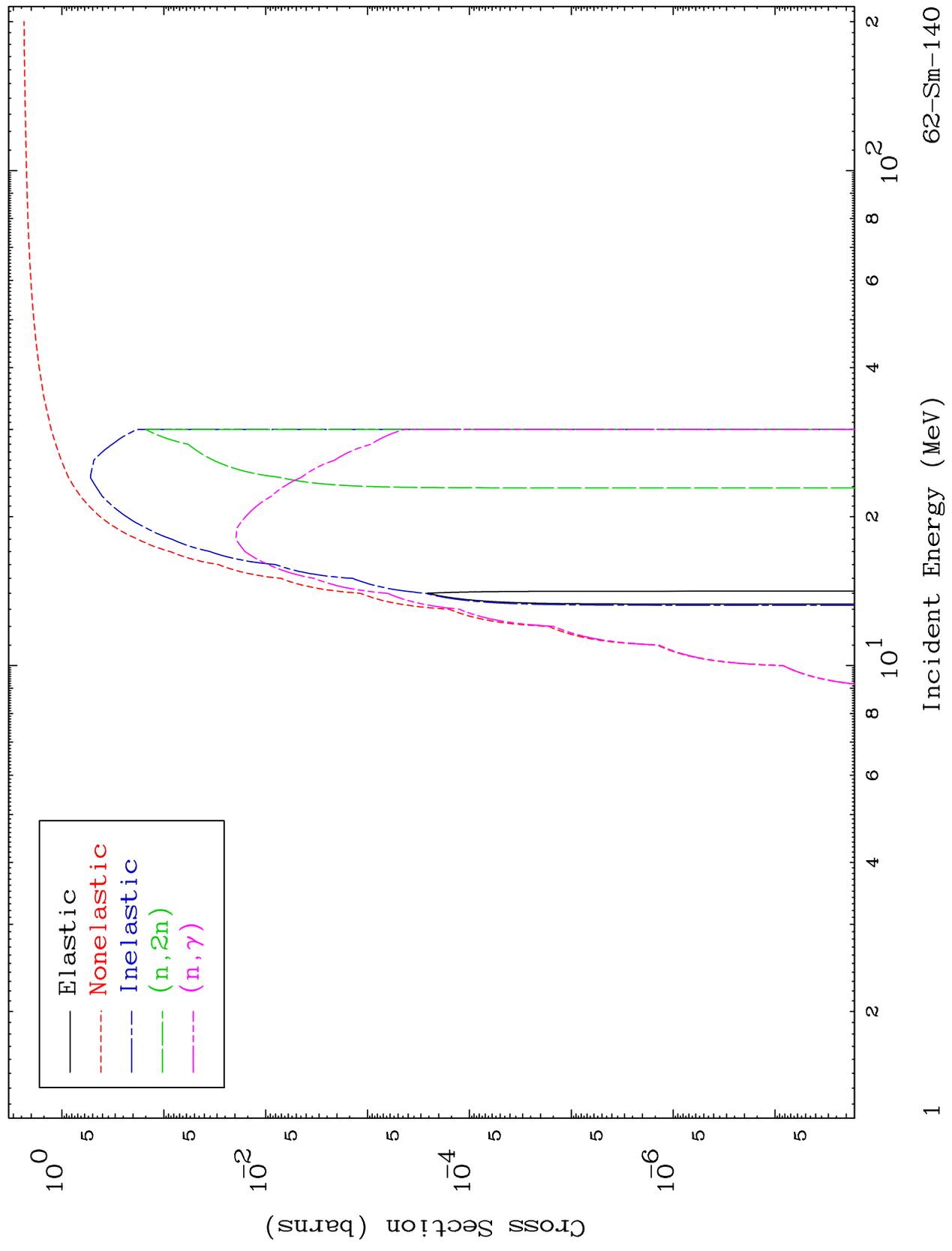
Press Mouse Button to Start

MAT 6213

0 Kelvin

Major Cross Sections

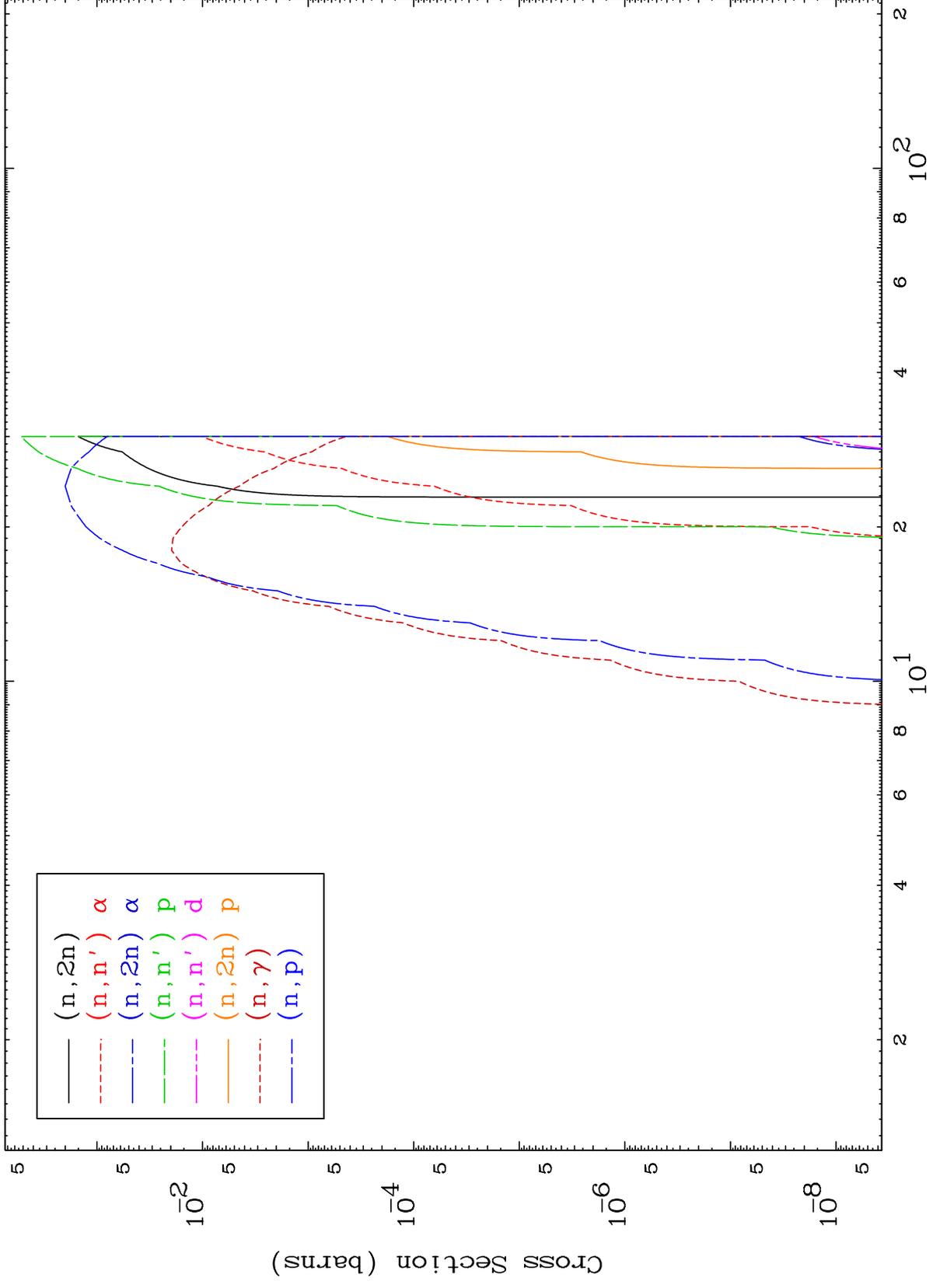
62-Sm-140



MAT 6213

$\alpha$  Neutron Absorption  
0 Kelvin Cross Sections

62-Sm-140



2

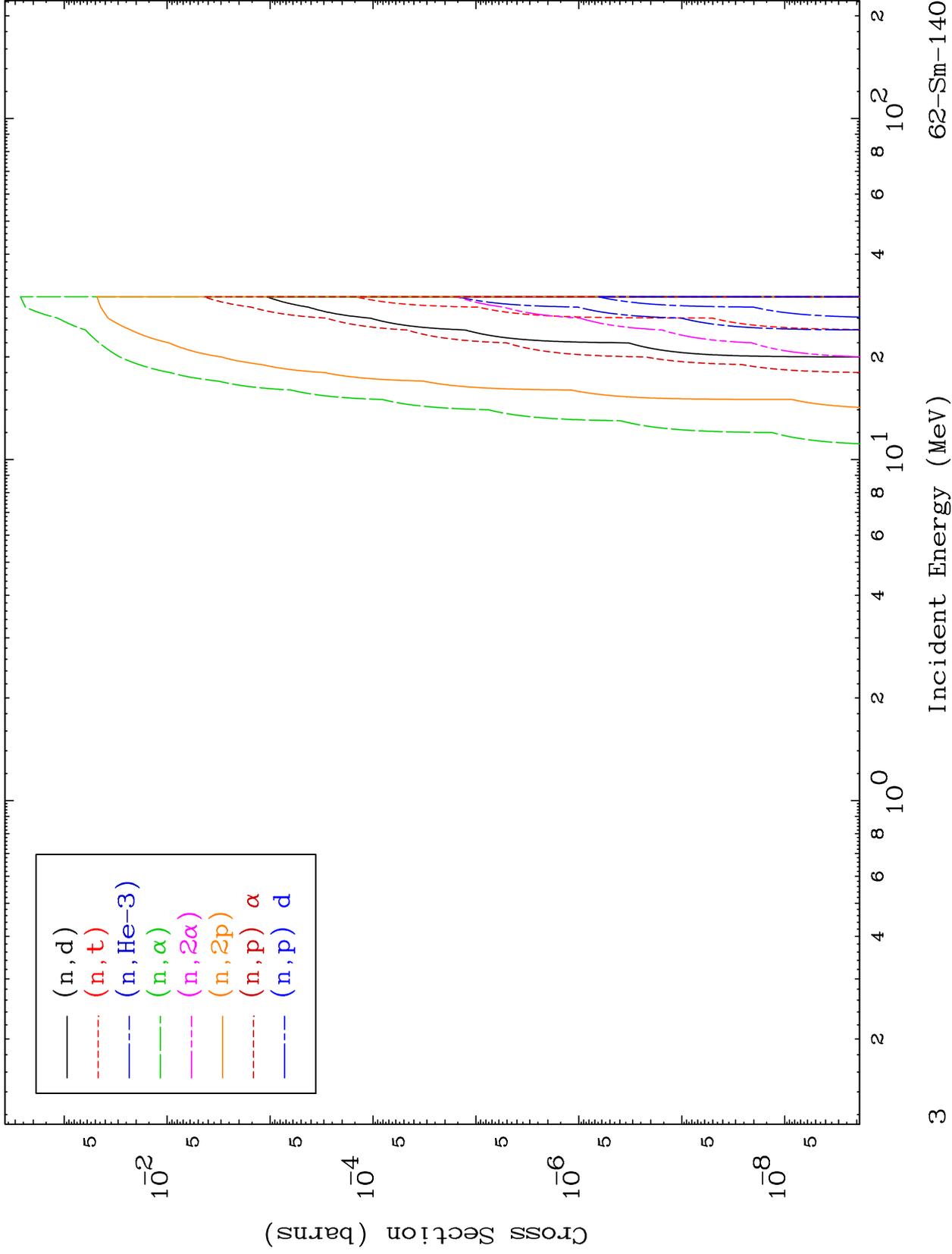
Incident Energy (MeV)

62-Sm-140

MAT 6213

$\alpha$  Neutron Absorption  
0 Kelvin Cross Sections

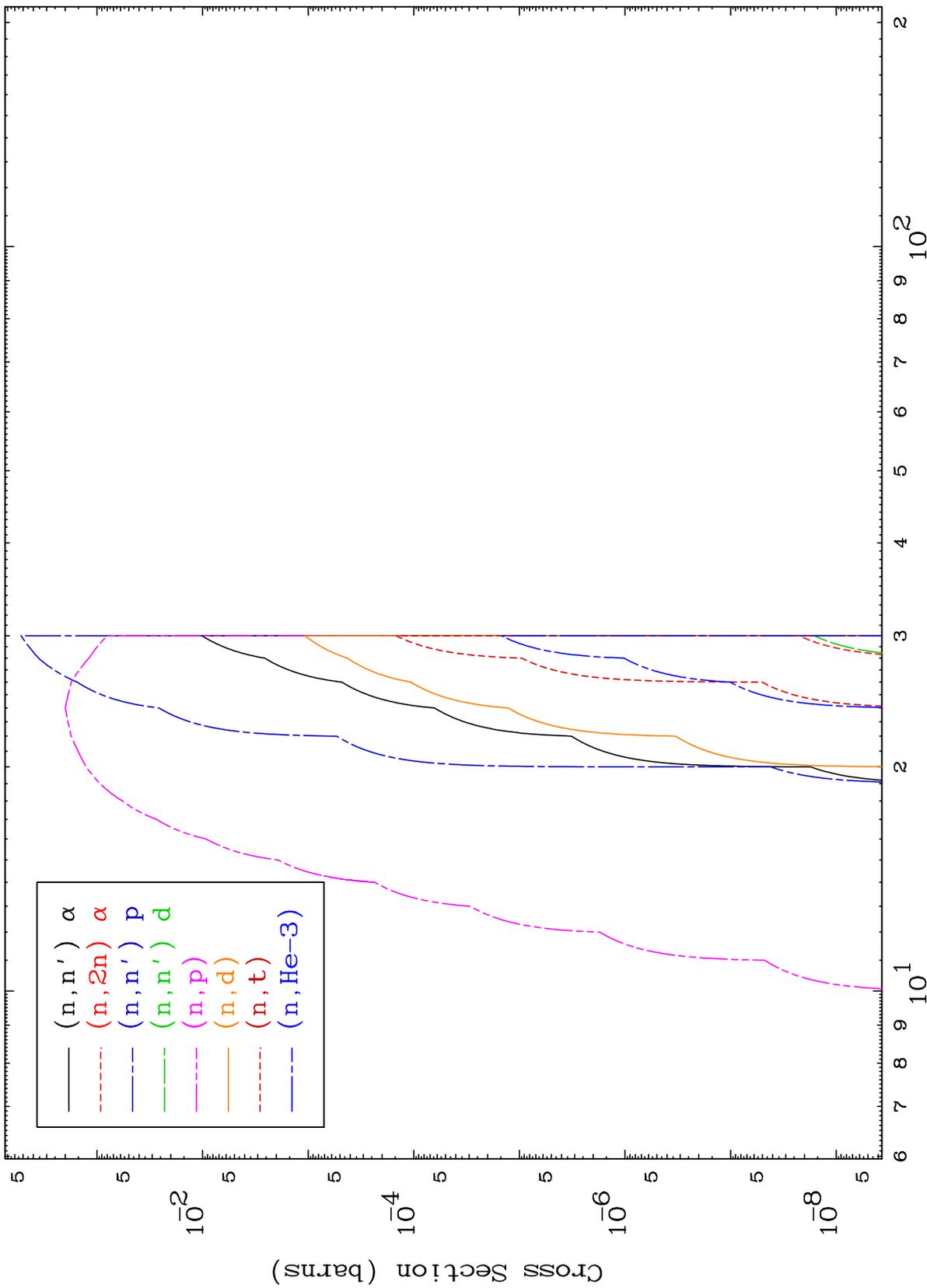
62-Sm-140

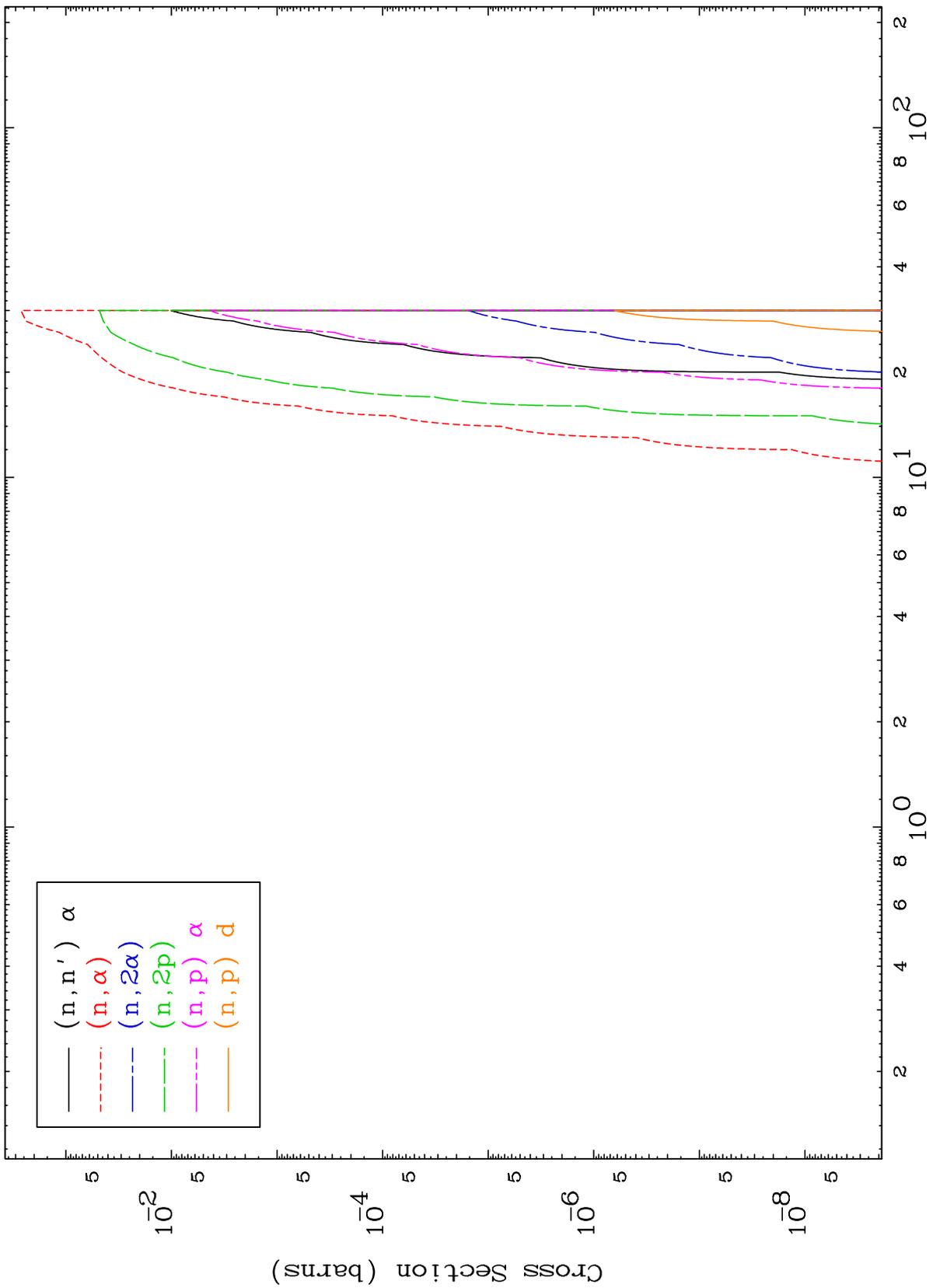


MAT 6213

$\alpha$  Charged Particle  
0 Kelvin Cross Sections

62-Sm-140

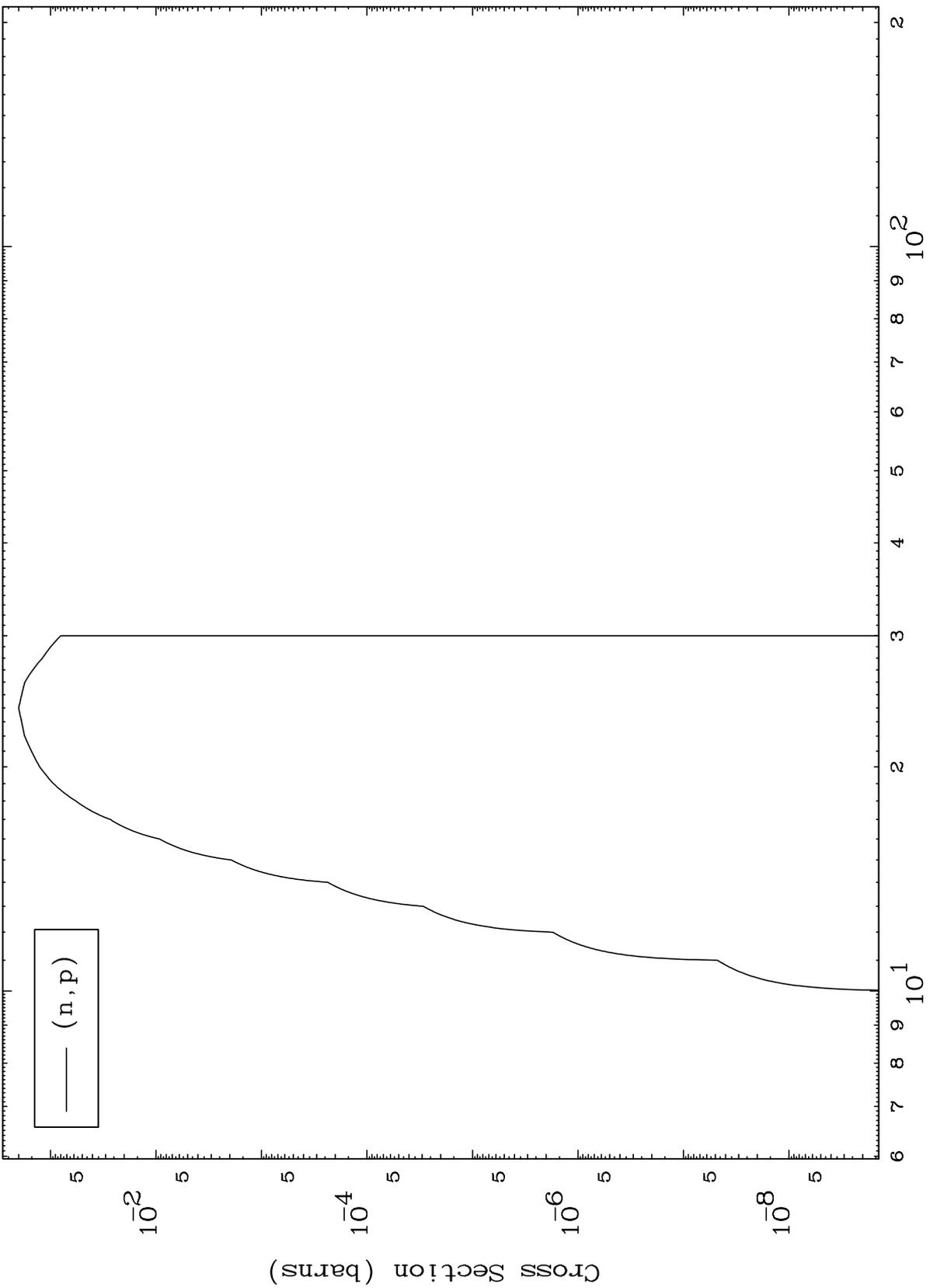




MAT 6213

62-Sm-140

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



6

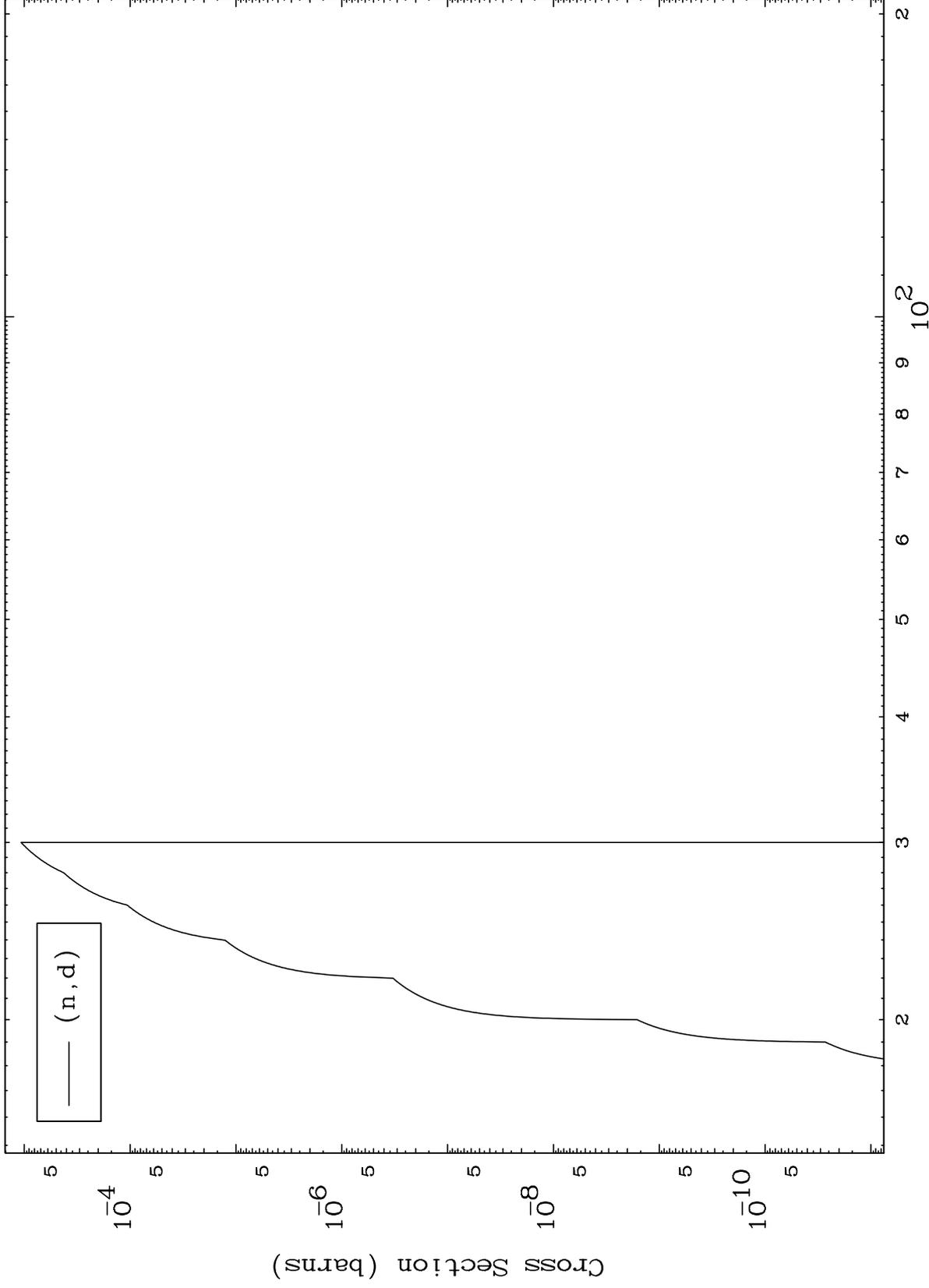
Incident Energy (MeV)

62-Sm-140

MAT 6213

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

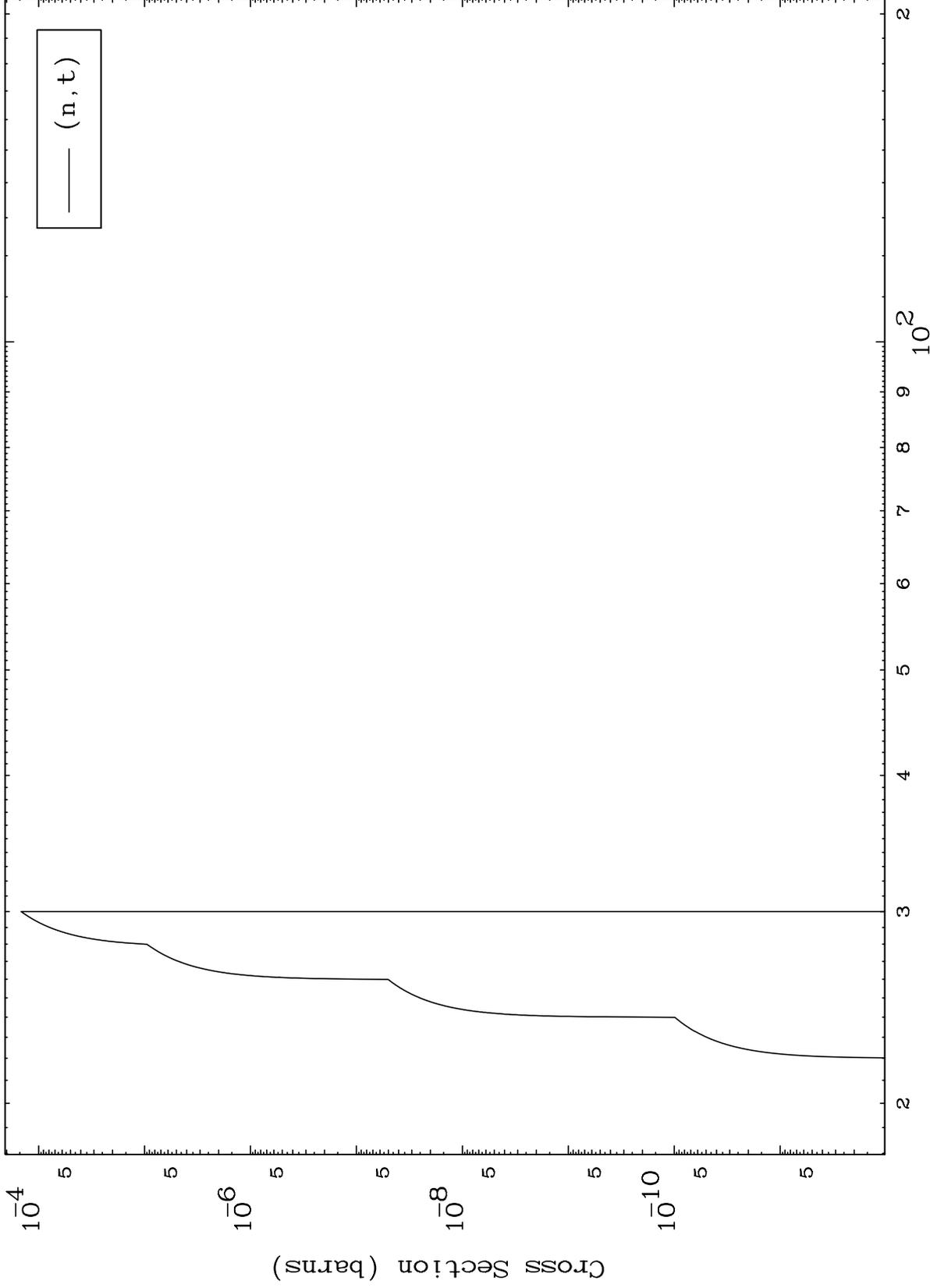
62-Sm-140



MAT 6213

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

62-Sm-140



8

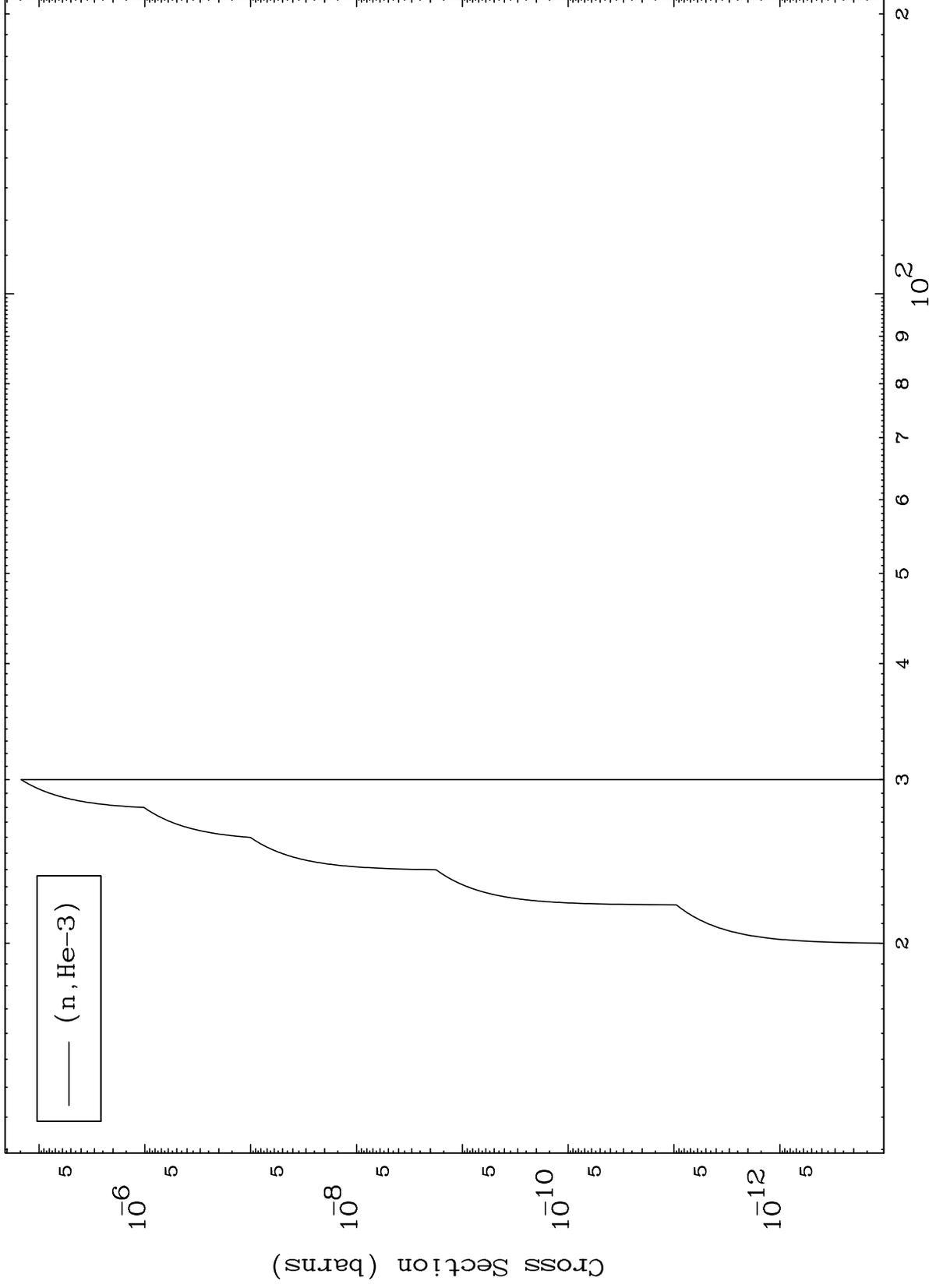
Incident Energy (MeV)

62-Sm-140

MAT 6213

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

62-Sm-140

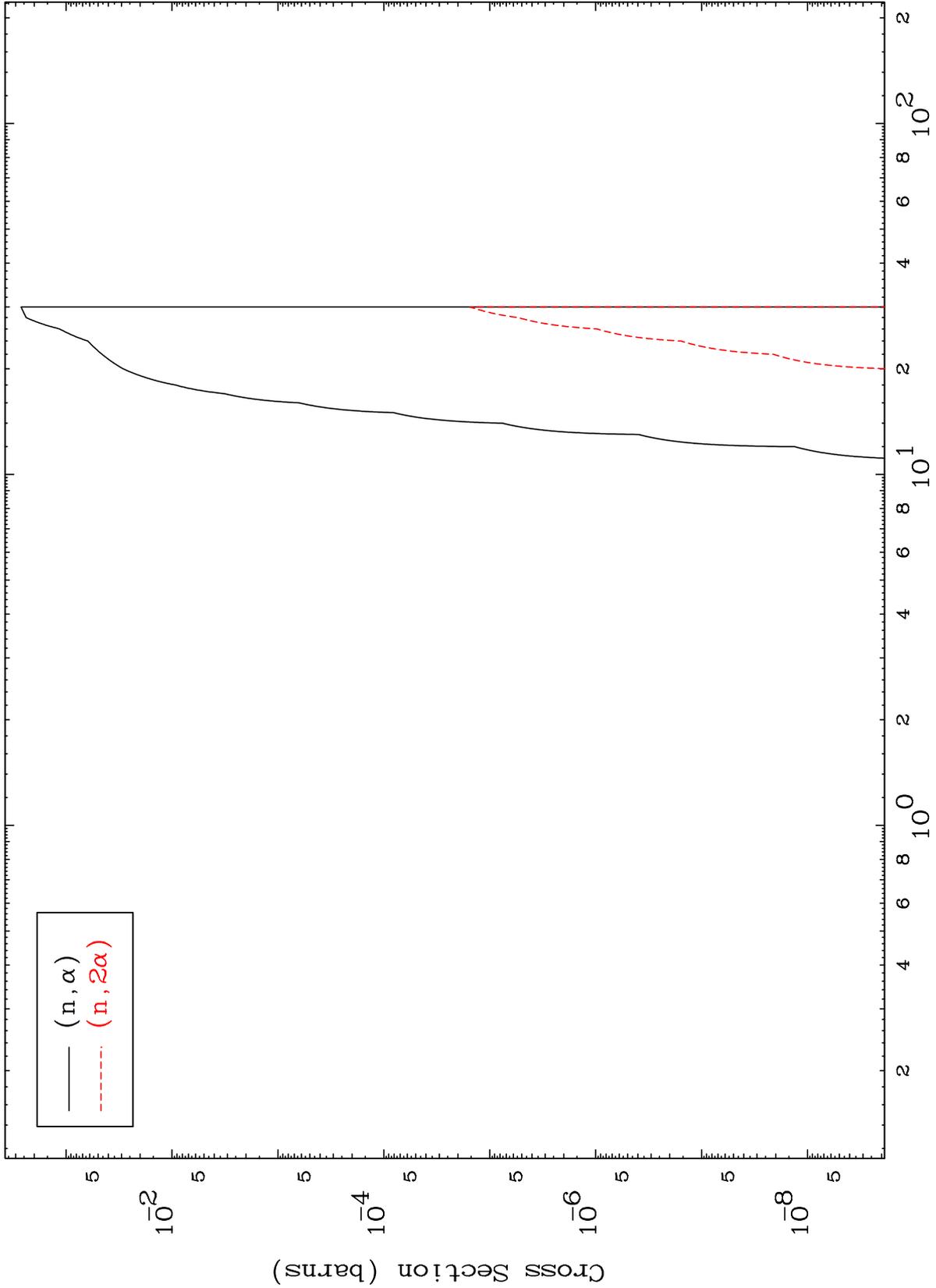


MAT 6213

( $\alpha, \alpha$ ) Levels

62-Sm-140

0 Kelvin Cross Sections



10

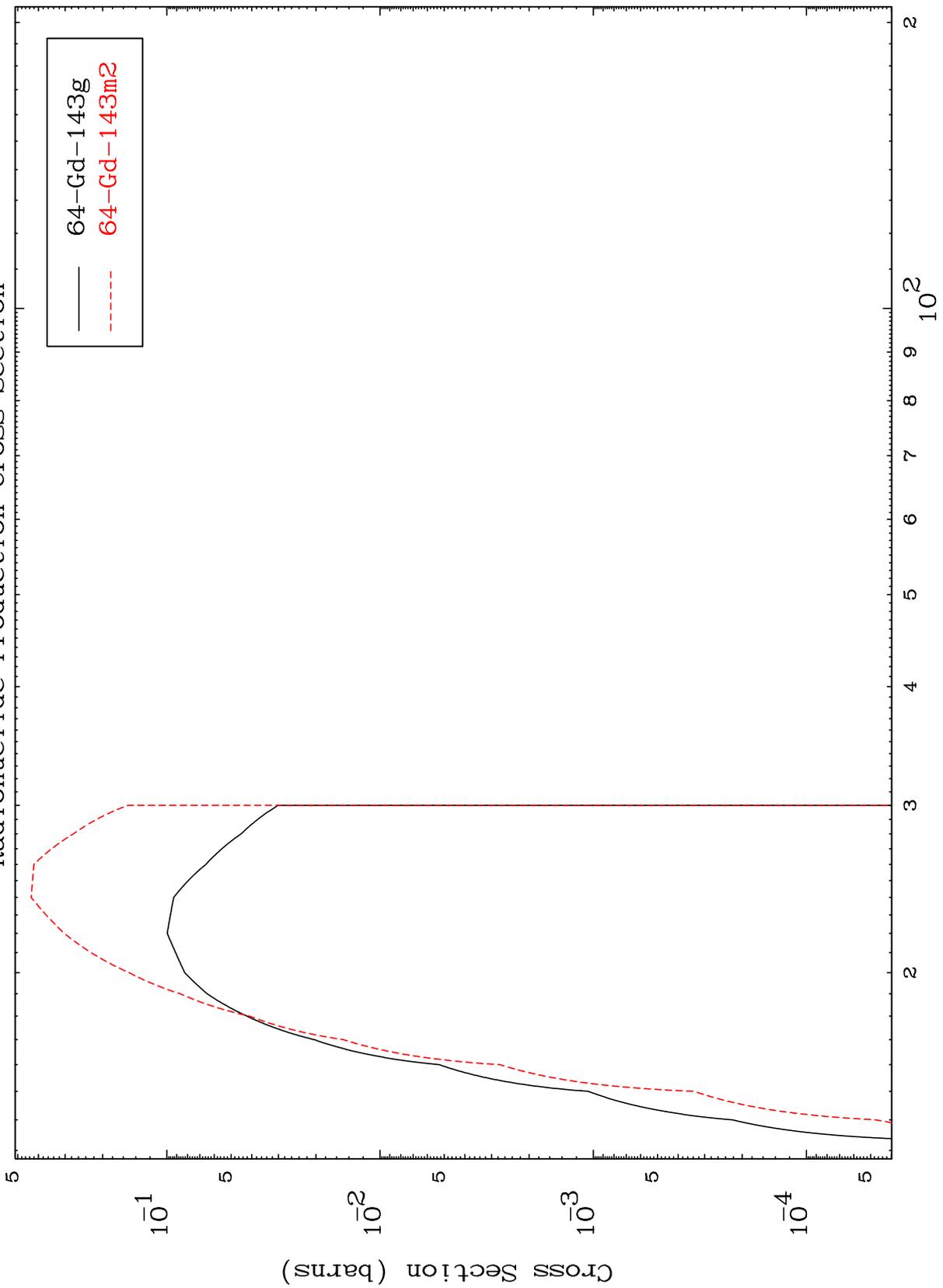
Incident Energy (MeV)

62-Sm-140

MAT 6213

62-Sm-140

Inelastic  
Radionuclide Production Cross Section



11

62-Sm-140

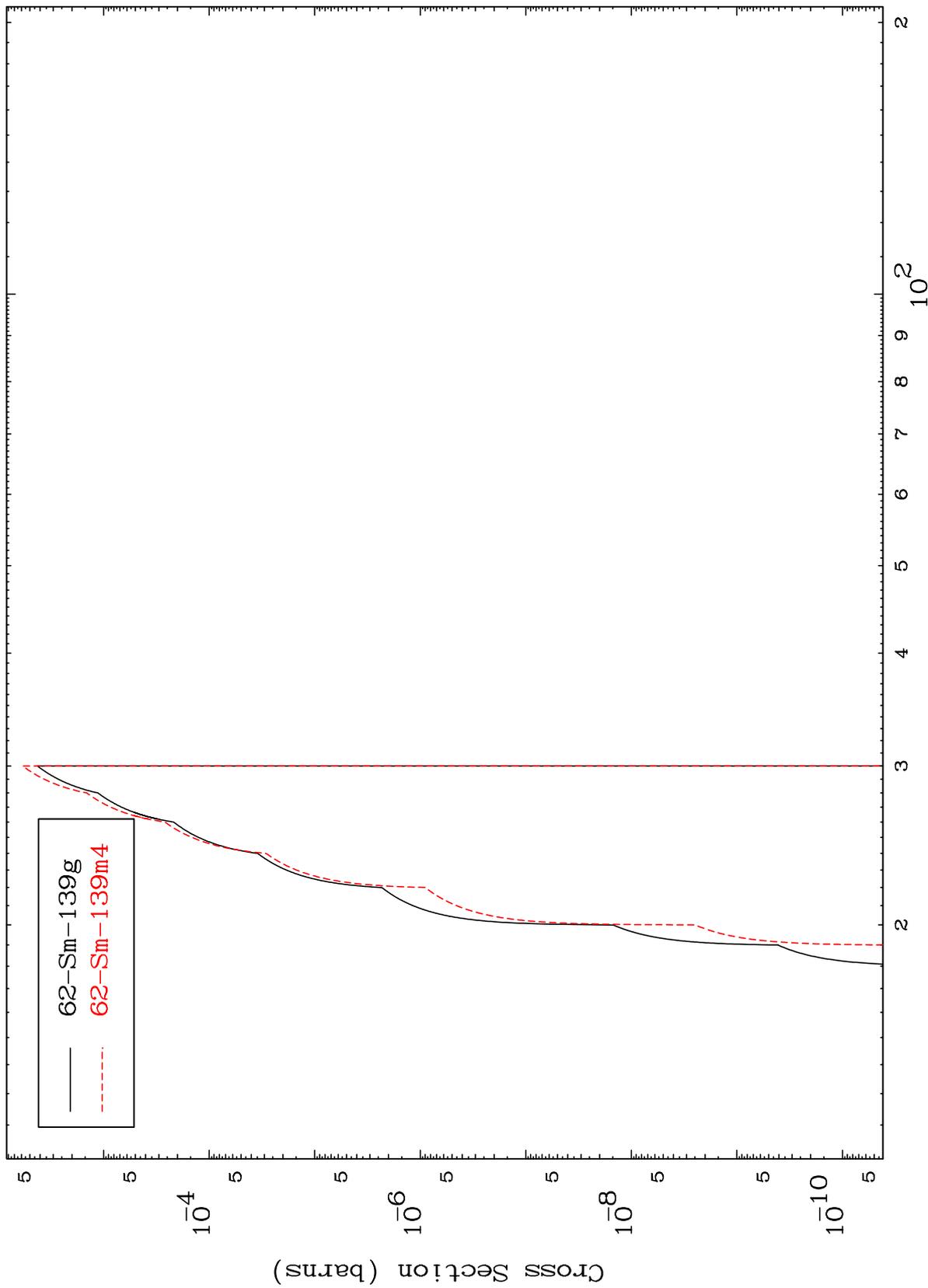
Incident Energy (MeV)

MAT 6213

$(n, n') \alpha$

62-Sm-140

Radionuclide Production Cross Section

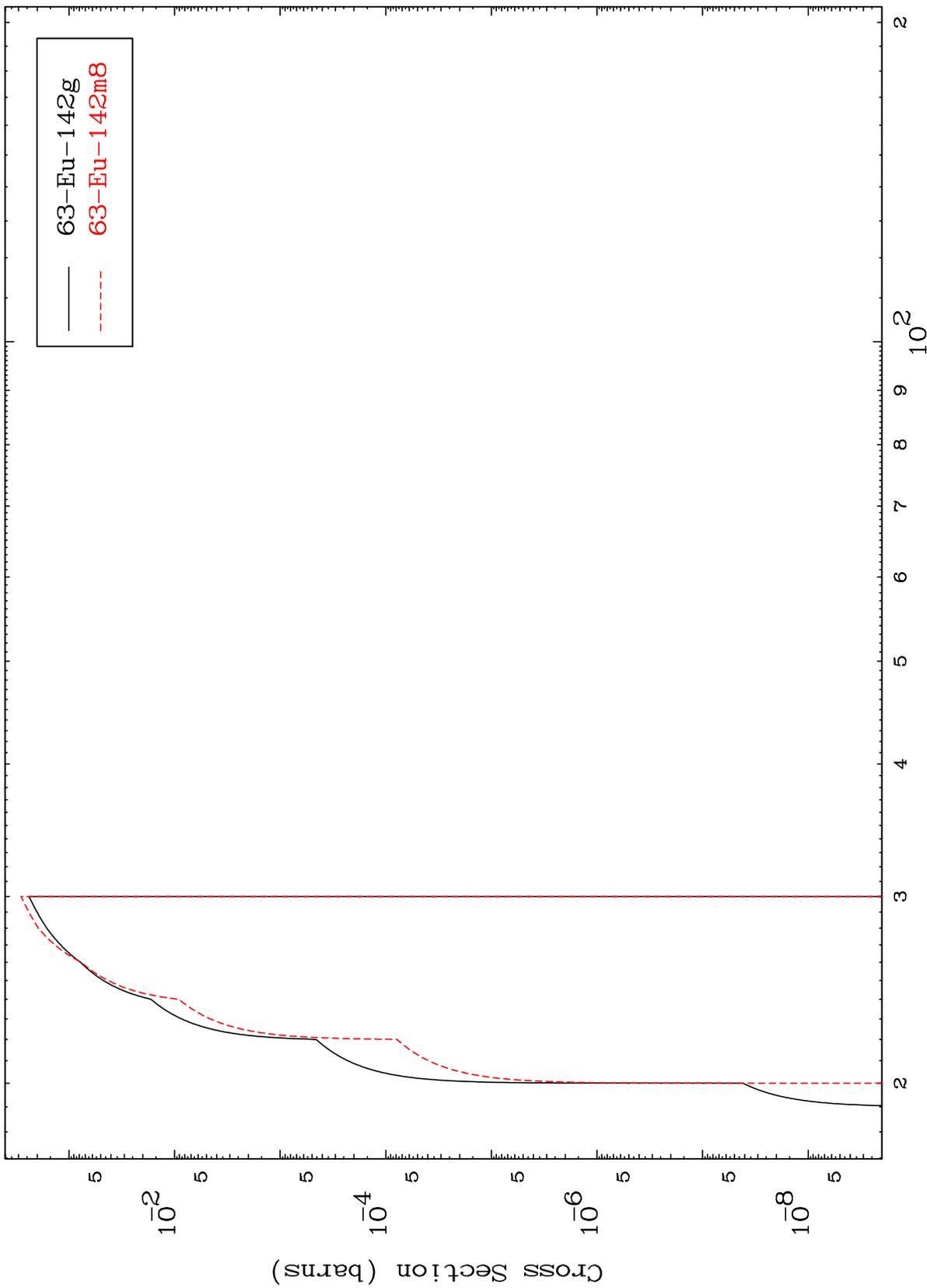


12

Incident Energy (MeV)

62-Sm-140

$(n, n')$  p  
Radionuclide Production Cross Section

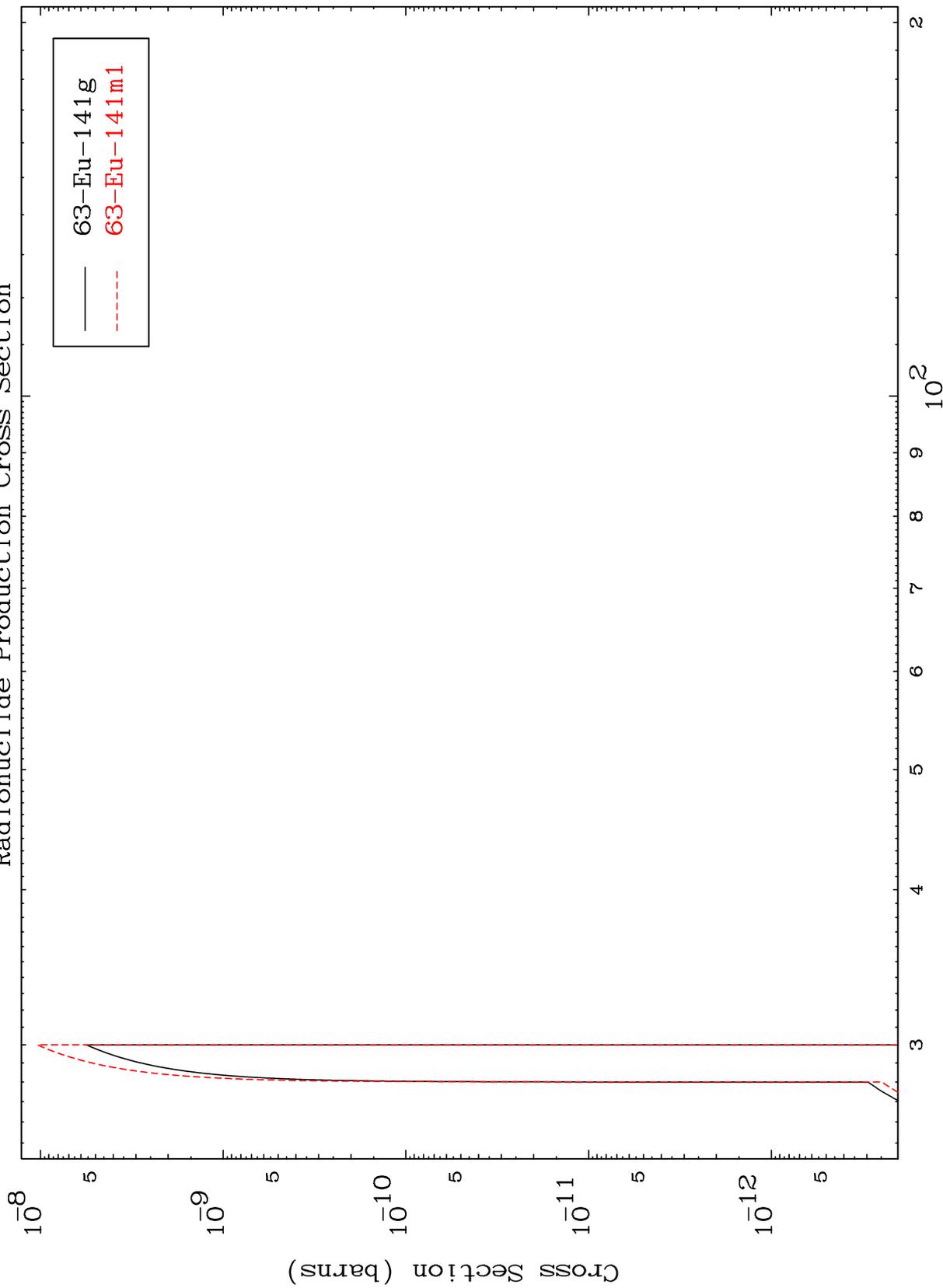


MAT 6213

(n,n') d

62-Sm-140

Radionuclide Production Cross Section



63-Eu-141g  
63-Eu-141m1

14

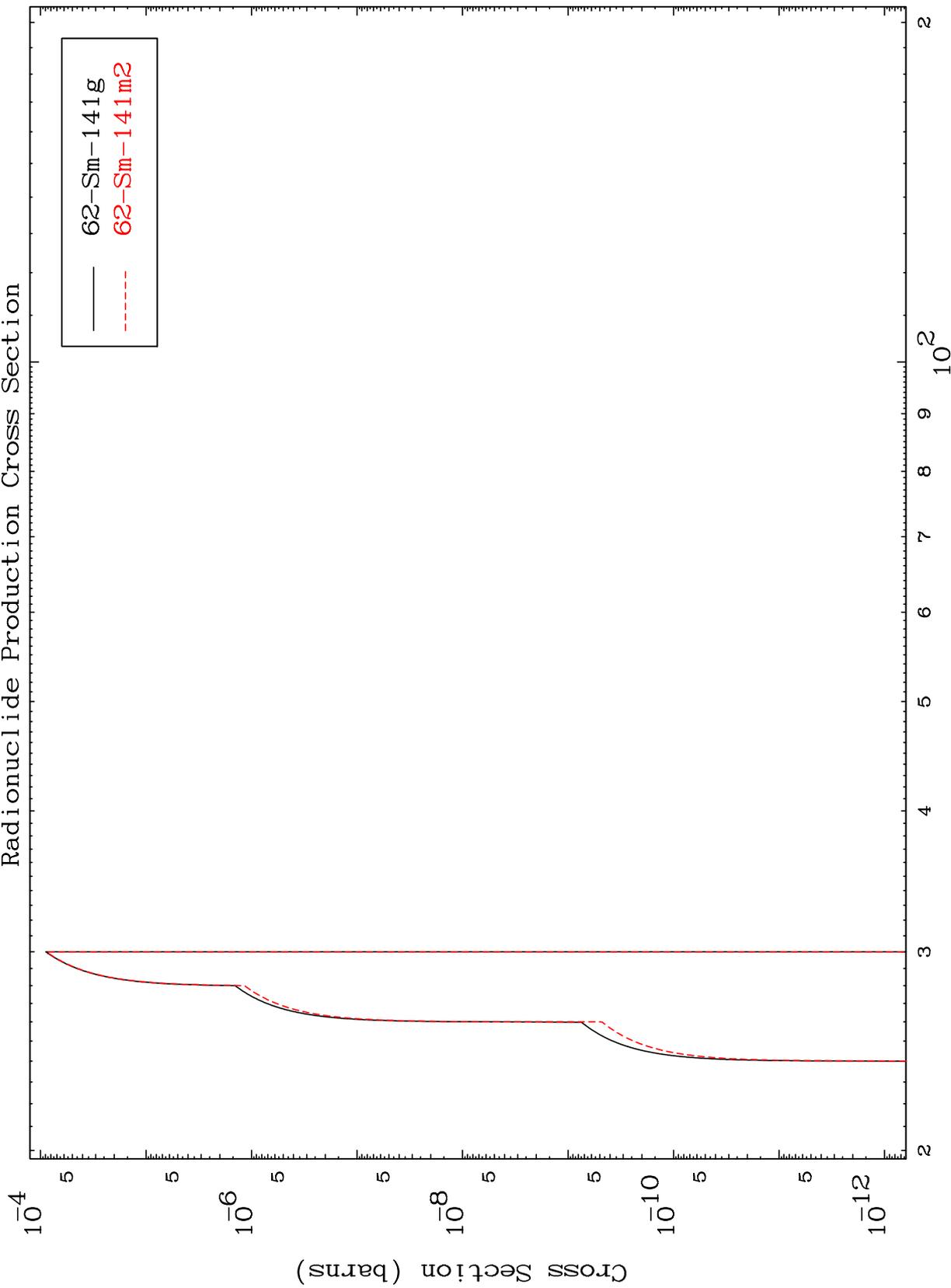
Incident Energy (MeV)

62-Sm-140

MAT 6213

62-Sm-140

(n,2n) p  
Radionuclide Production Cross Section



15

62-Sm-140

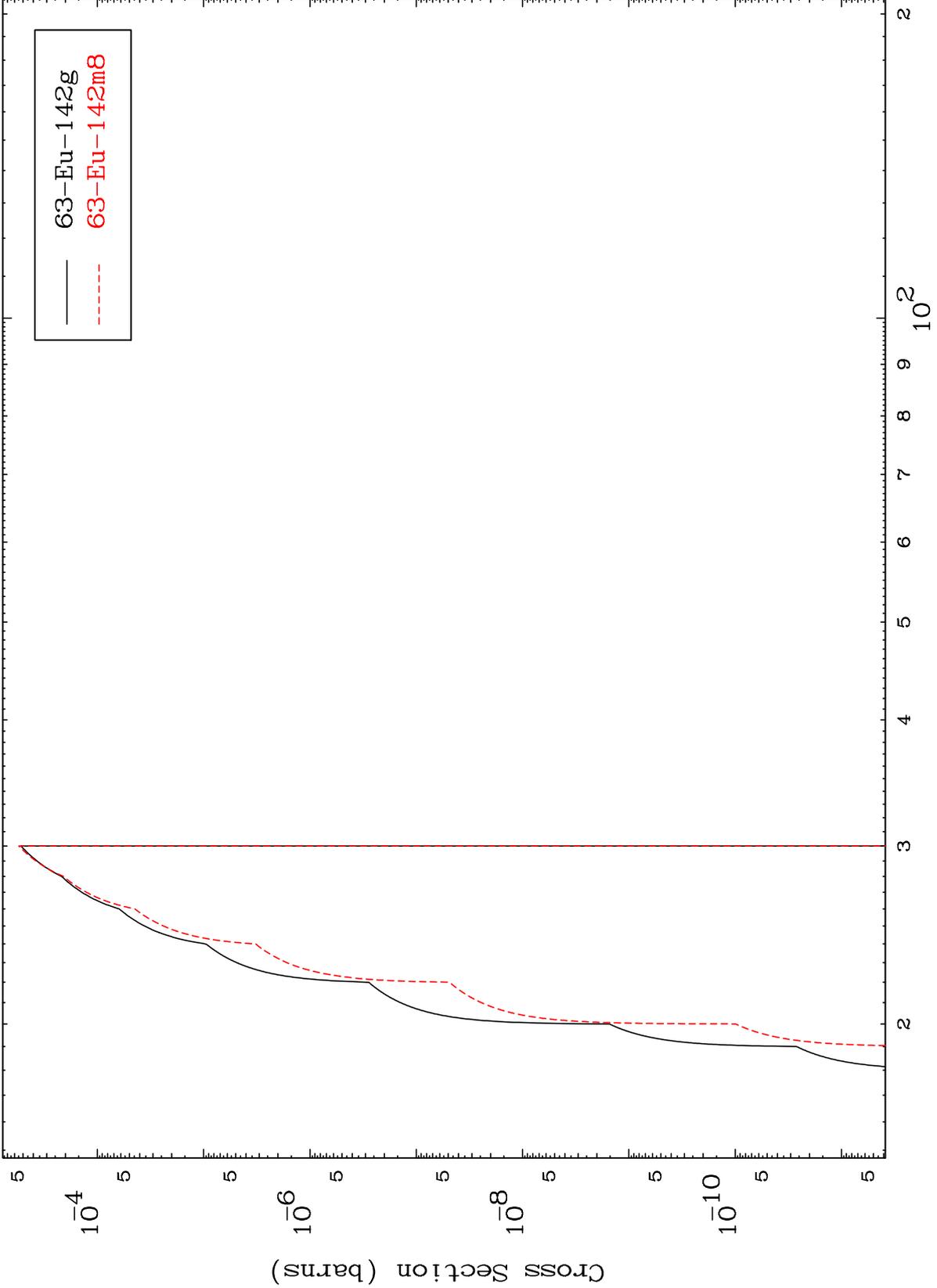
Incident Energy (MeV)

MAT 6213

(n,d)

62-Sm-140

Radionuclide Production Cross Section



63-Eu-142g  
63-Eu-142m8

16

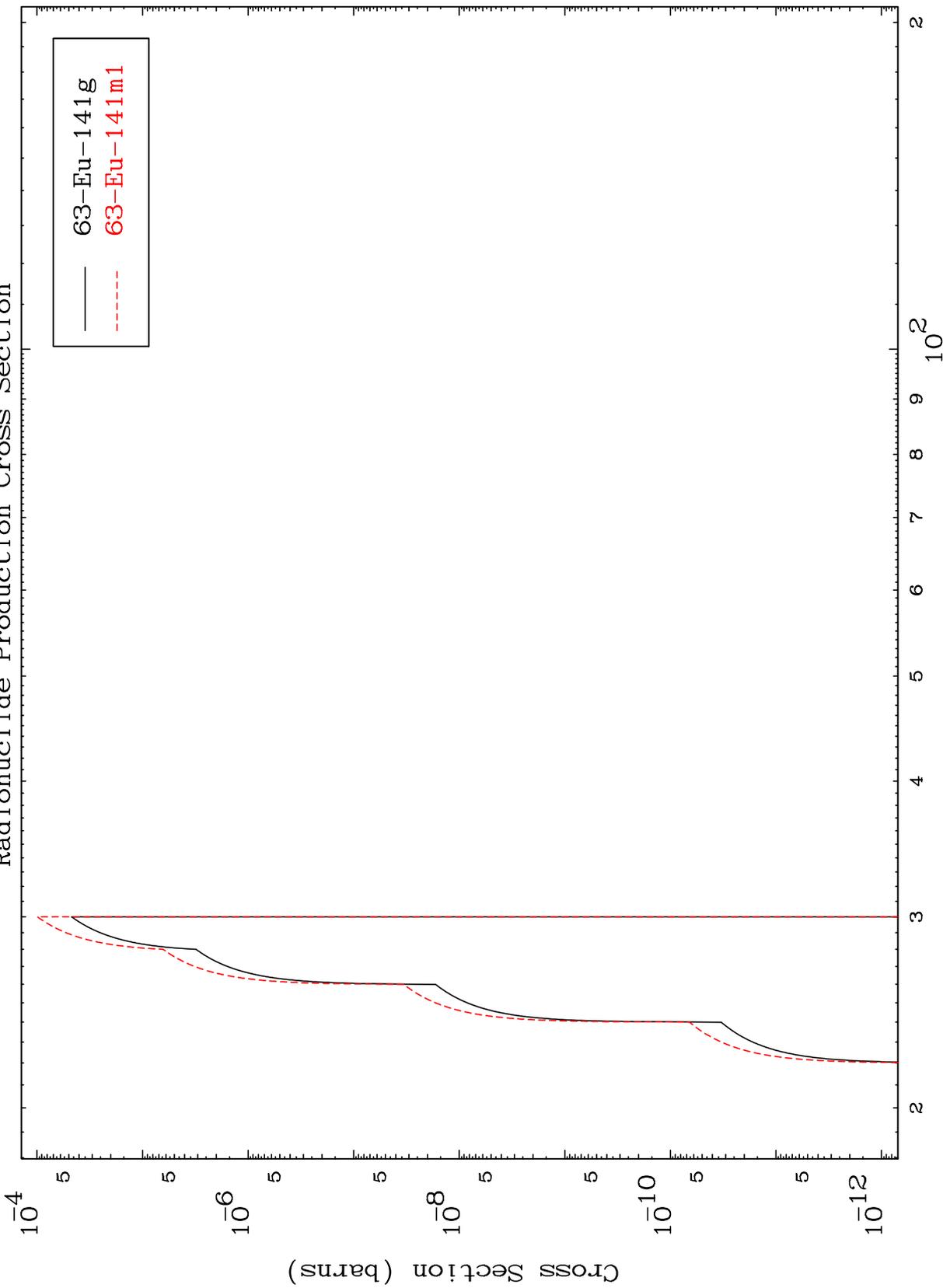
Incident Energy (MeV)

62-Sm-140

MAT 6213

62-Sm-140

(n,t)  
Radionuclide Production Cross Section



17

Incident Energy (MeV)

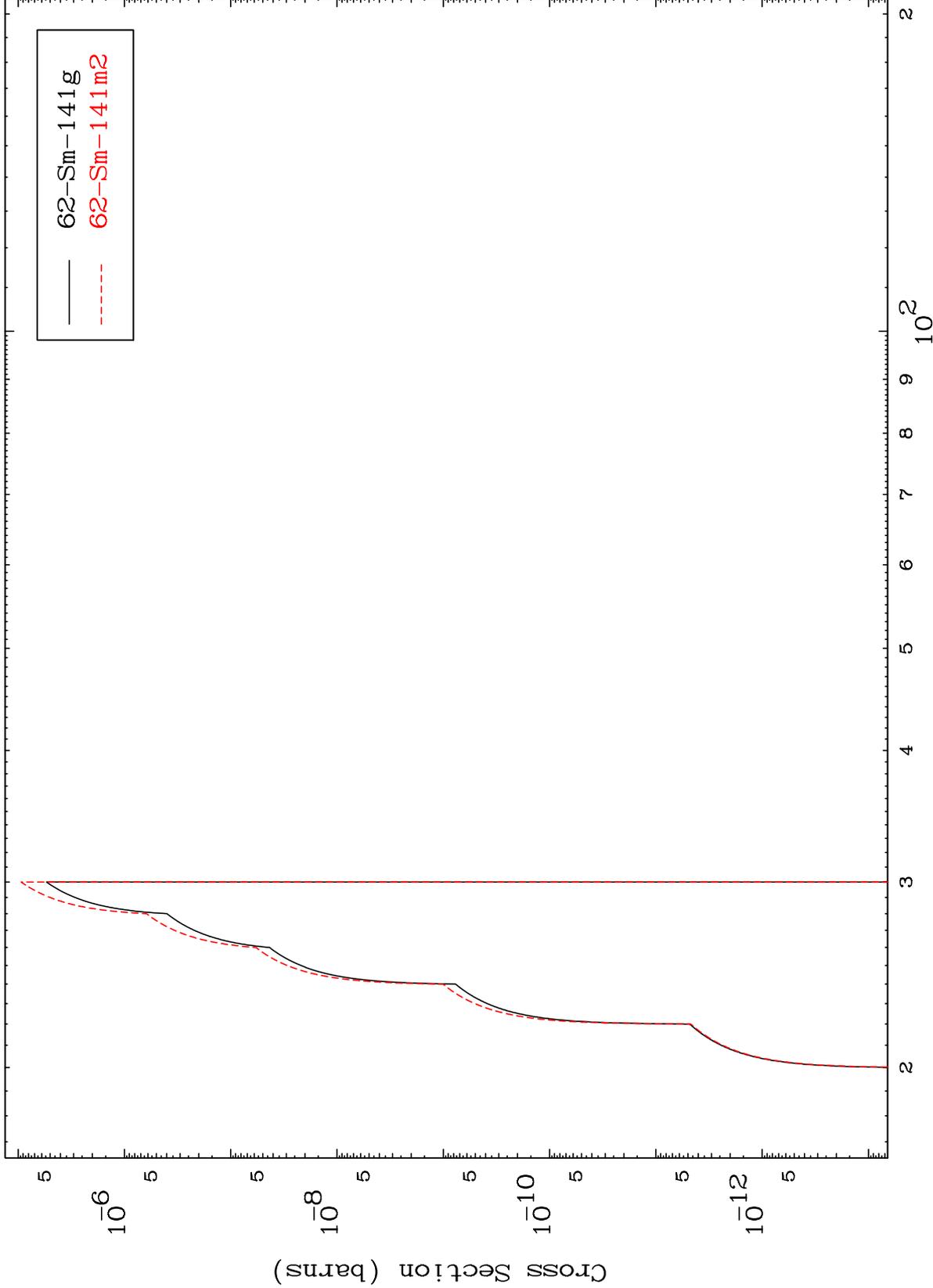
62-Sm-140

MAT 6213

(n,He-3)

62-Sm-140

Radionuclide Production Cross Section



18

Incident Energy (MeV)

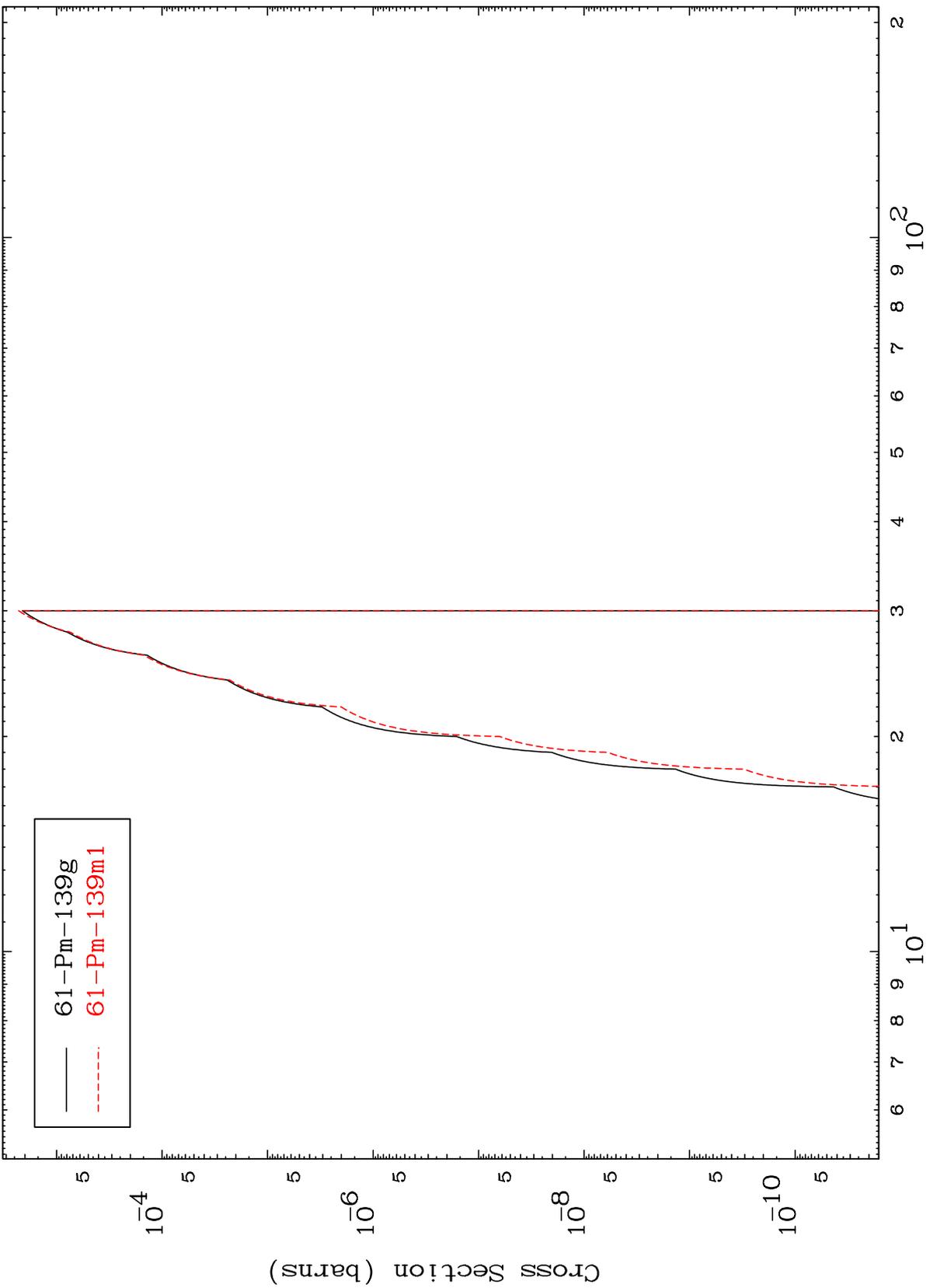
62-Sm-140

MAT 6213

(n,p)  $\alpha$

62-Sm-140

Radionuclide Production Cross Section



61-Pm-139g  
61-Pm-139m1

19

Incident Energy (MeV)

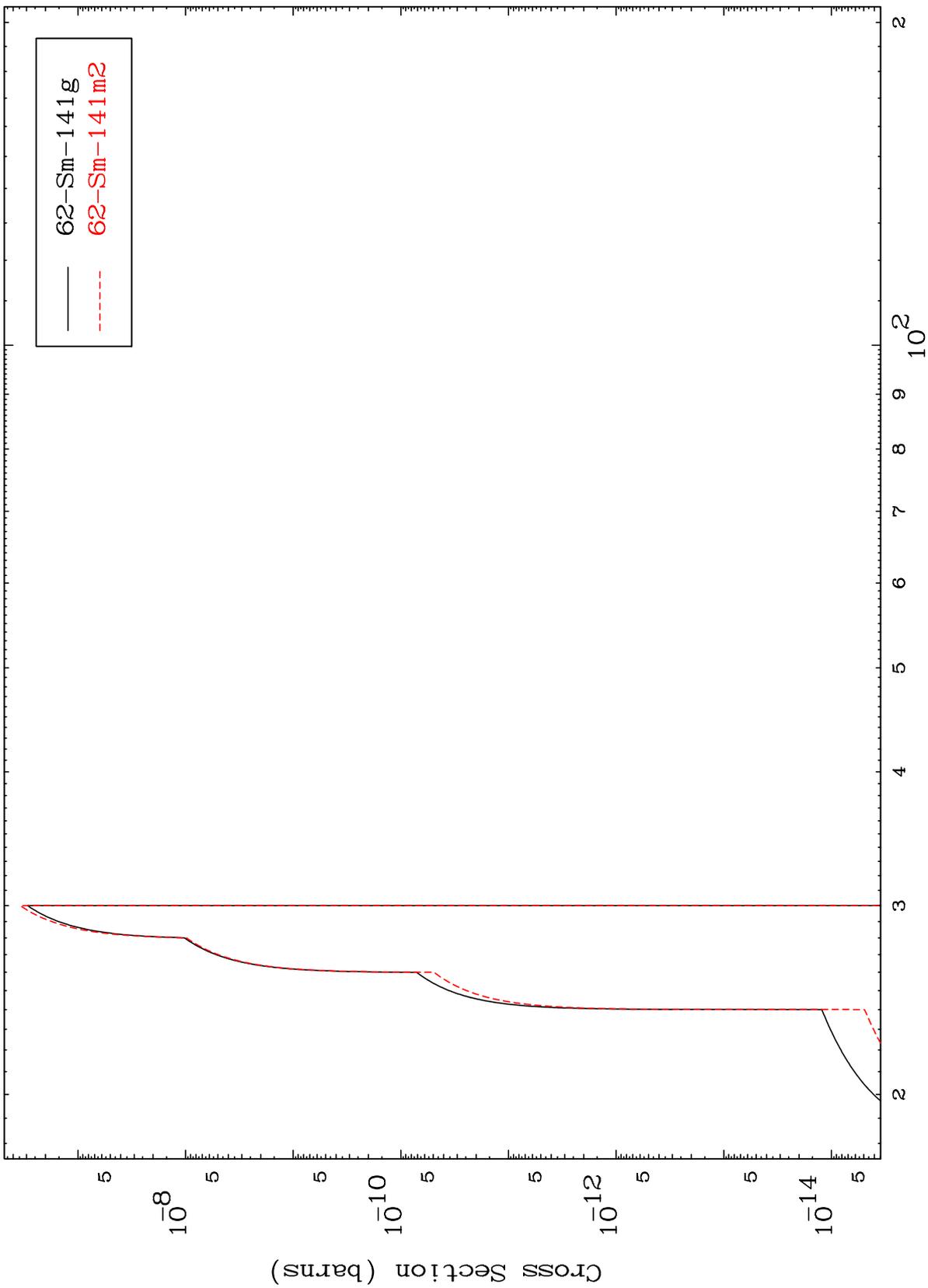
62-Sm-140

MAT 6213

(n,p) d

62-Sm-140

Radionuclide Production Cross Section



20

Incident Energy (MeV)

62-Sm-140