

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

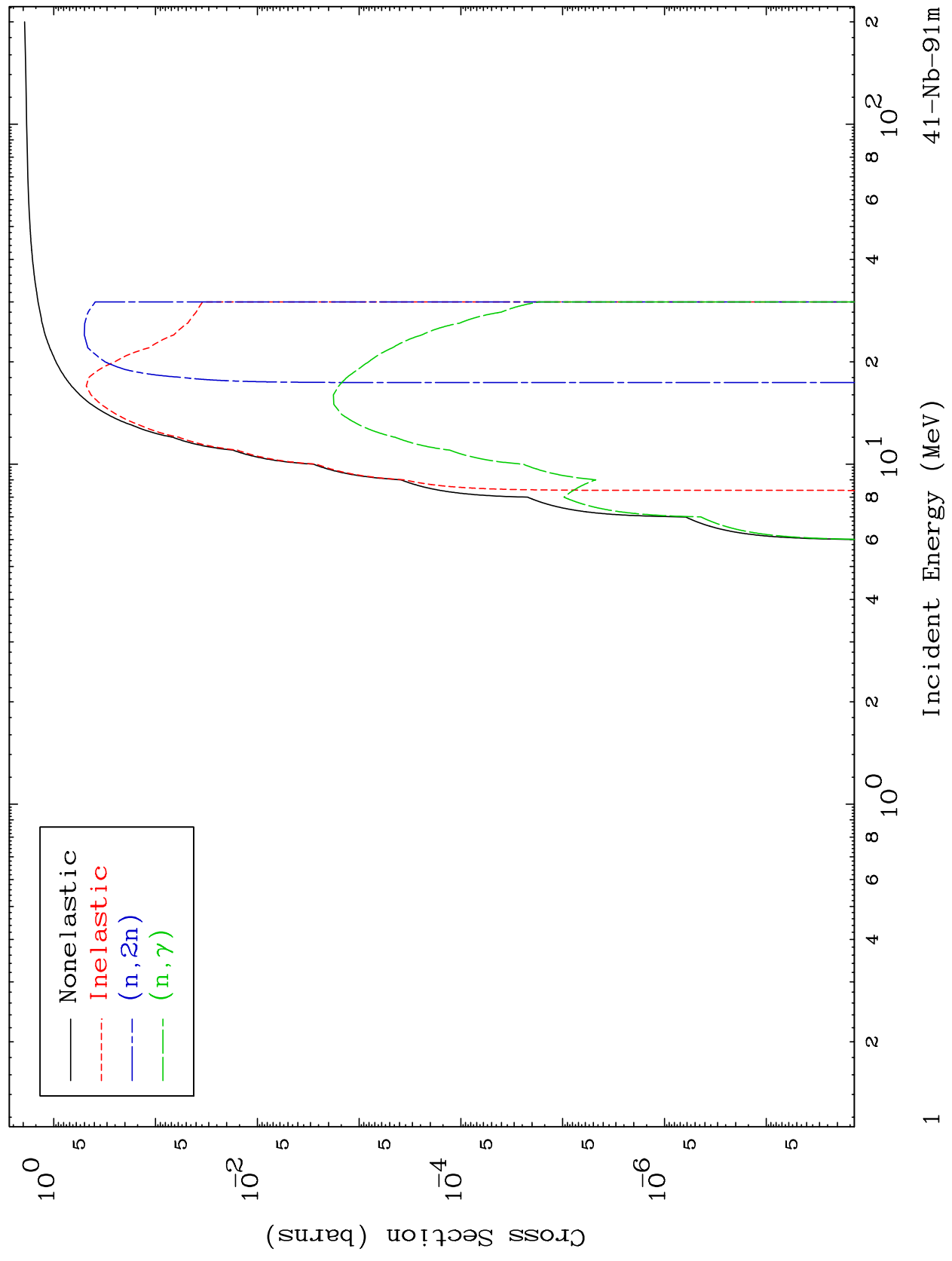
Press Mouse Button to Start

MAT 4120

0 Kelvin

Major Cross Sections

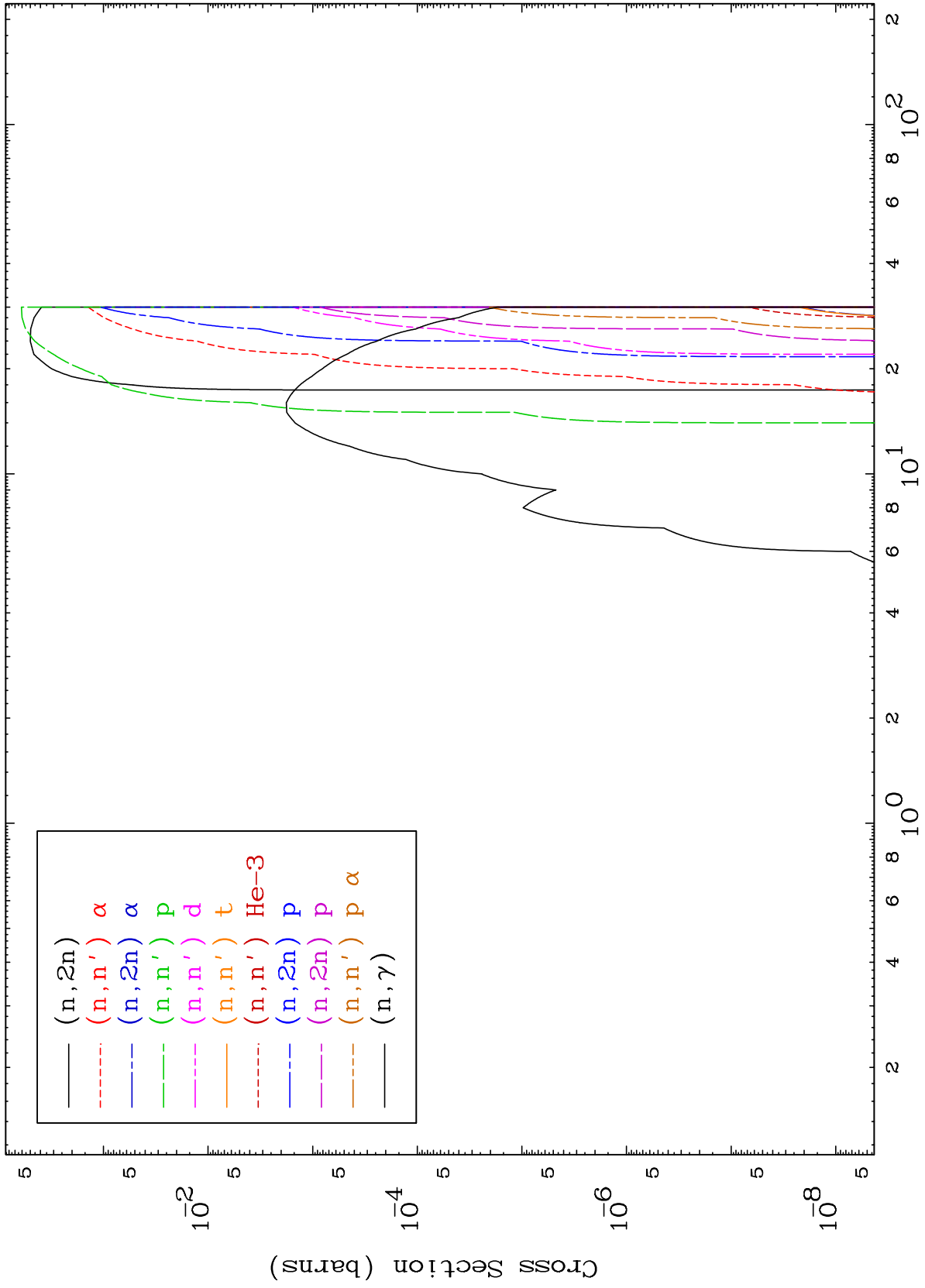
41-Nb-91m



MAT 4120

$\alpha$  Neutron Absorption  
0 Kelvin Cross Sections

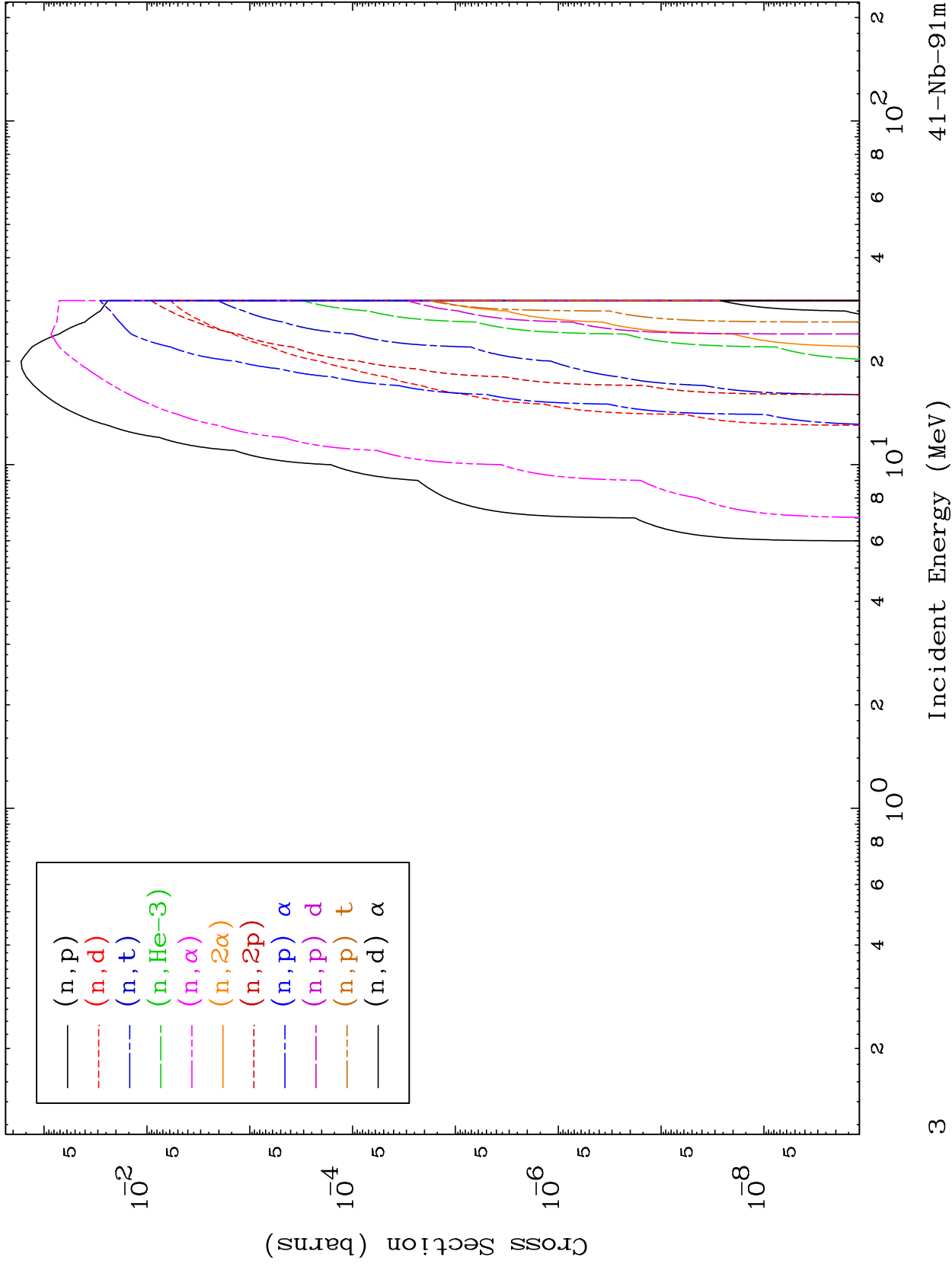
41-Nb-91m



MAT 4120

$\alpha$  Neutron Absorption  
0 Kelvin Cross Sections

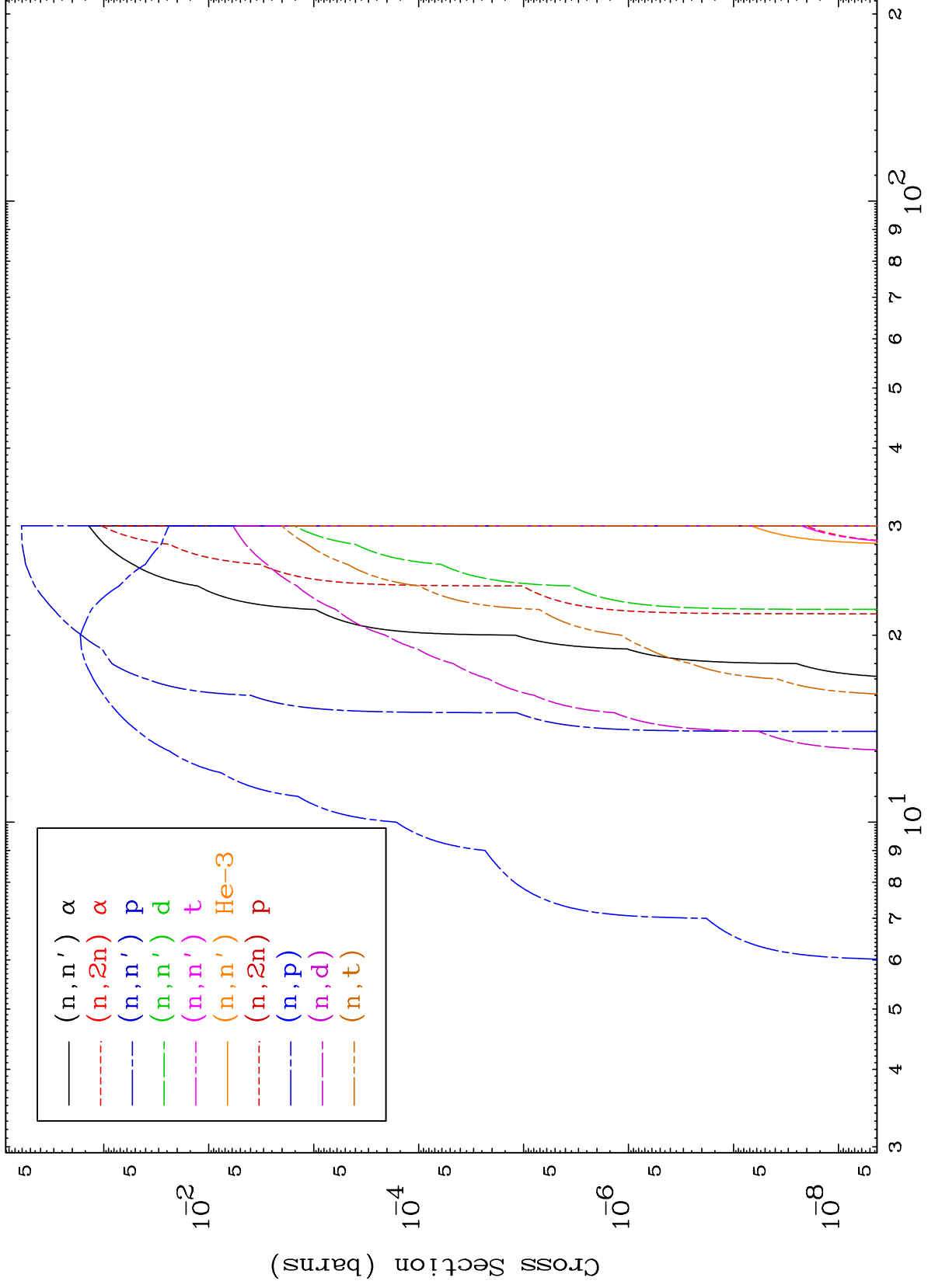
41-Nb-91m

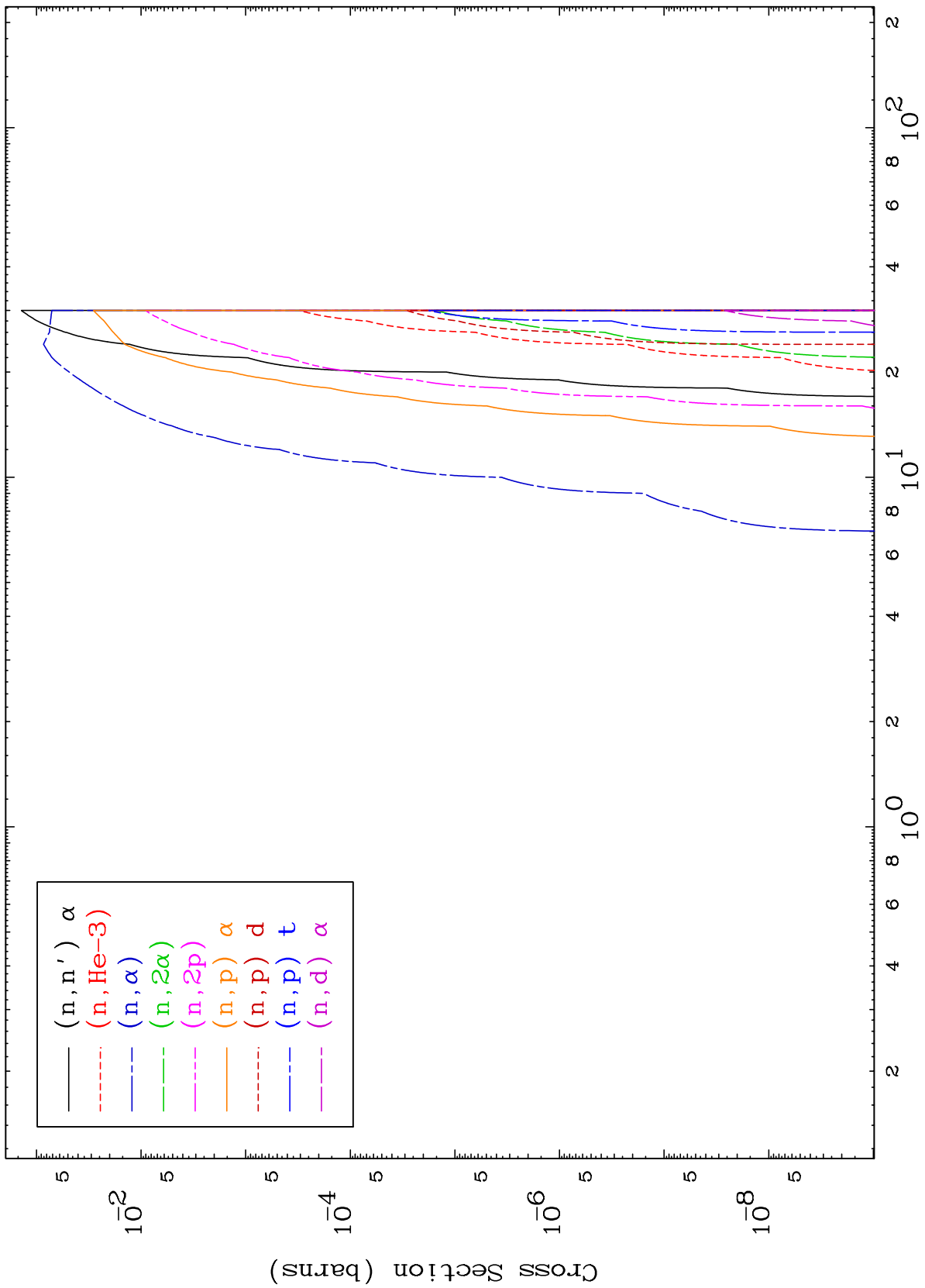


MAT 4120

$\alpha$  Charged Particle  
0 Kelvin Cross Sections

41-Nb-91m



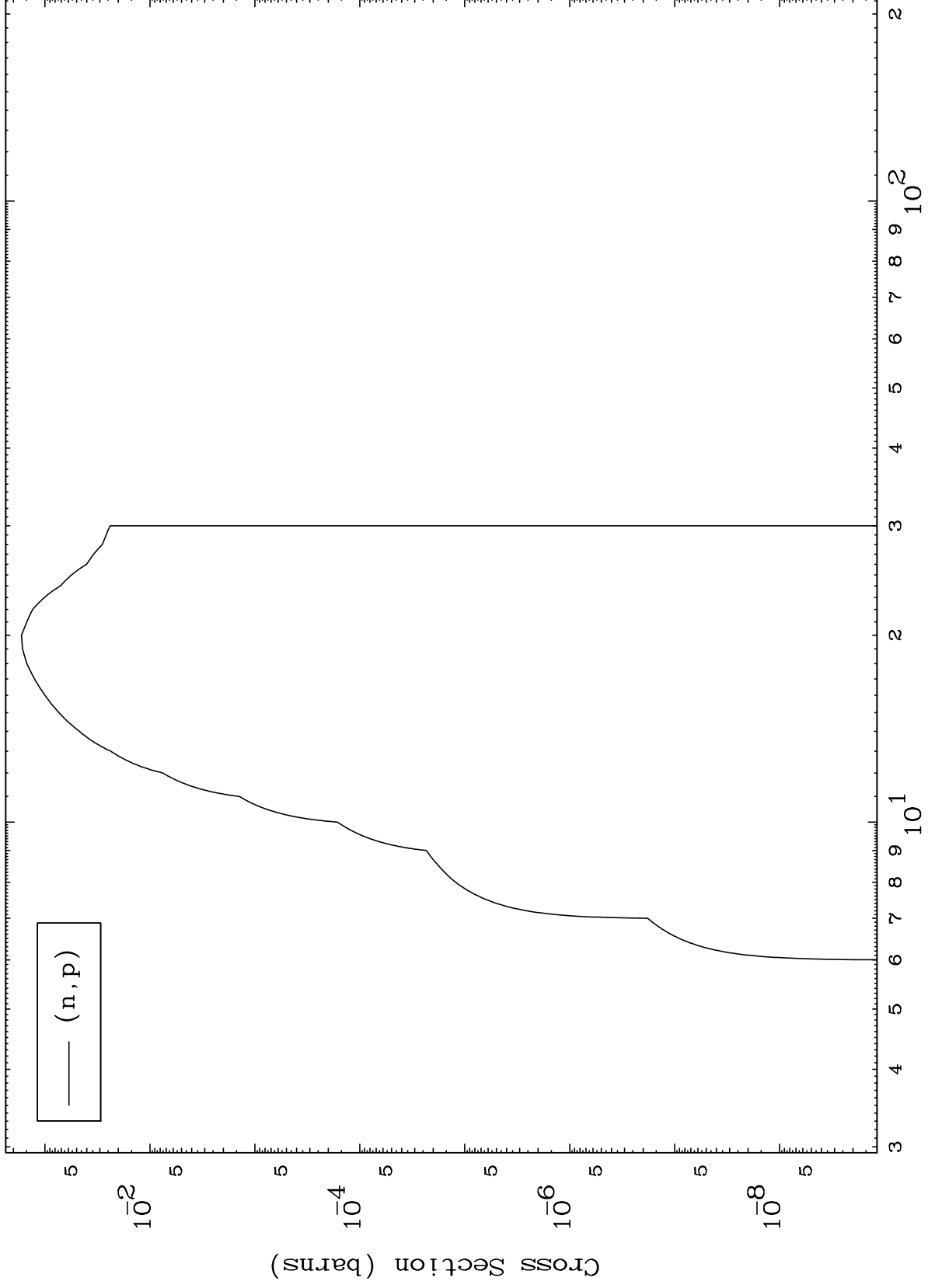


MAT 4120

( $\alpha, p$ ) Levels

41-Nb-91m

0 Kelvin Cross Sections



6

Incident Energy (MeV)

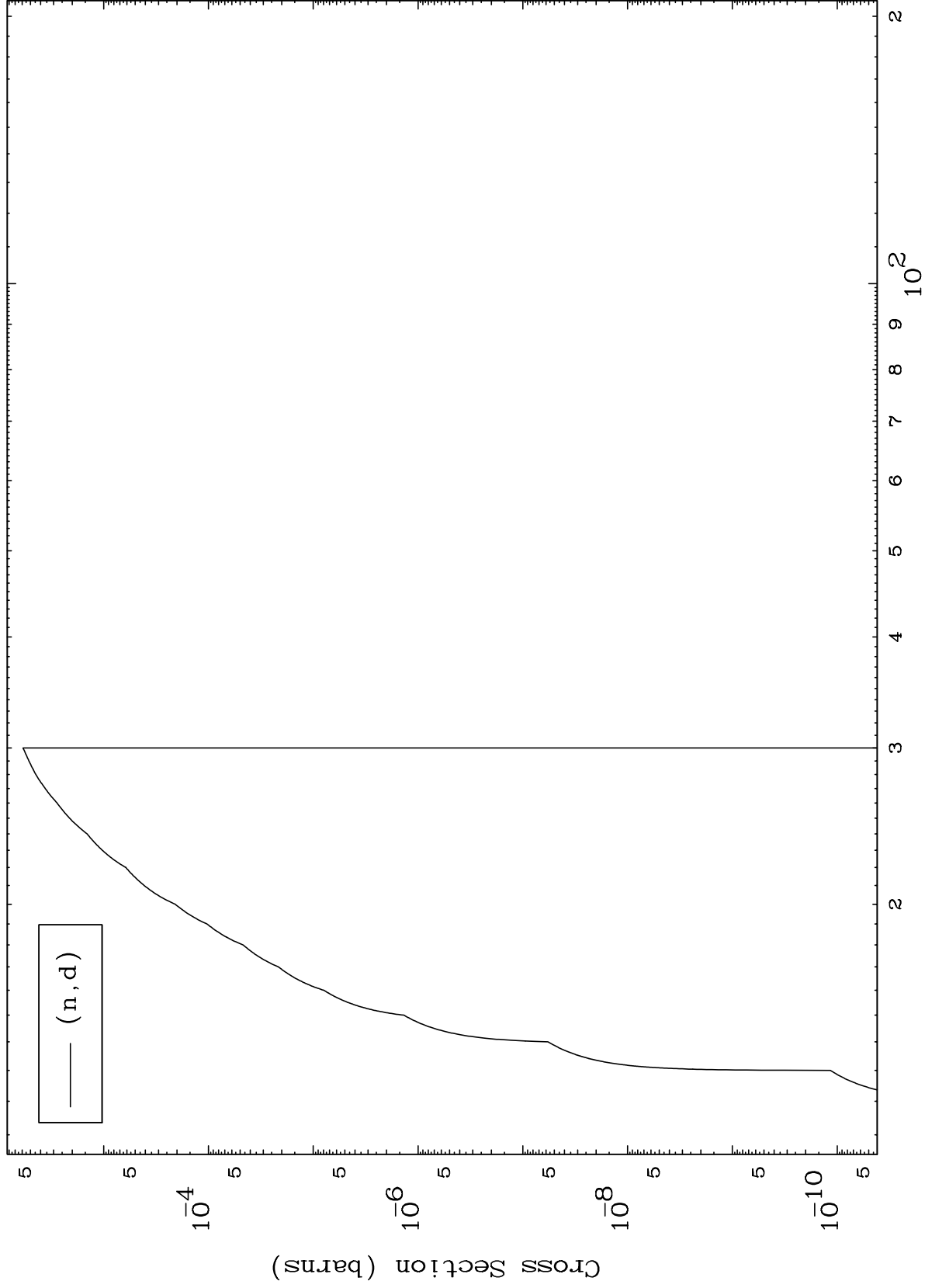
41-Nb-91m

MAT 4120

( $\alpha, d$ ) Levels

41-Nb-91m

0 Kelvin Cross Sections



7

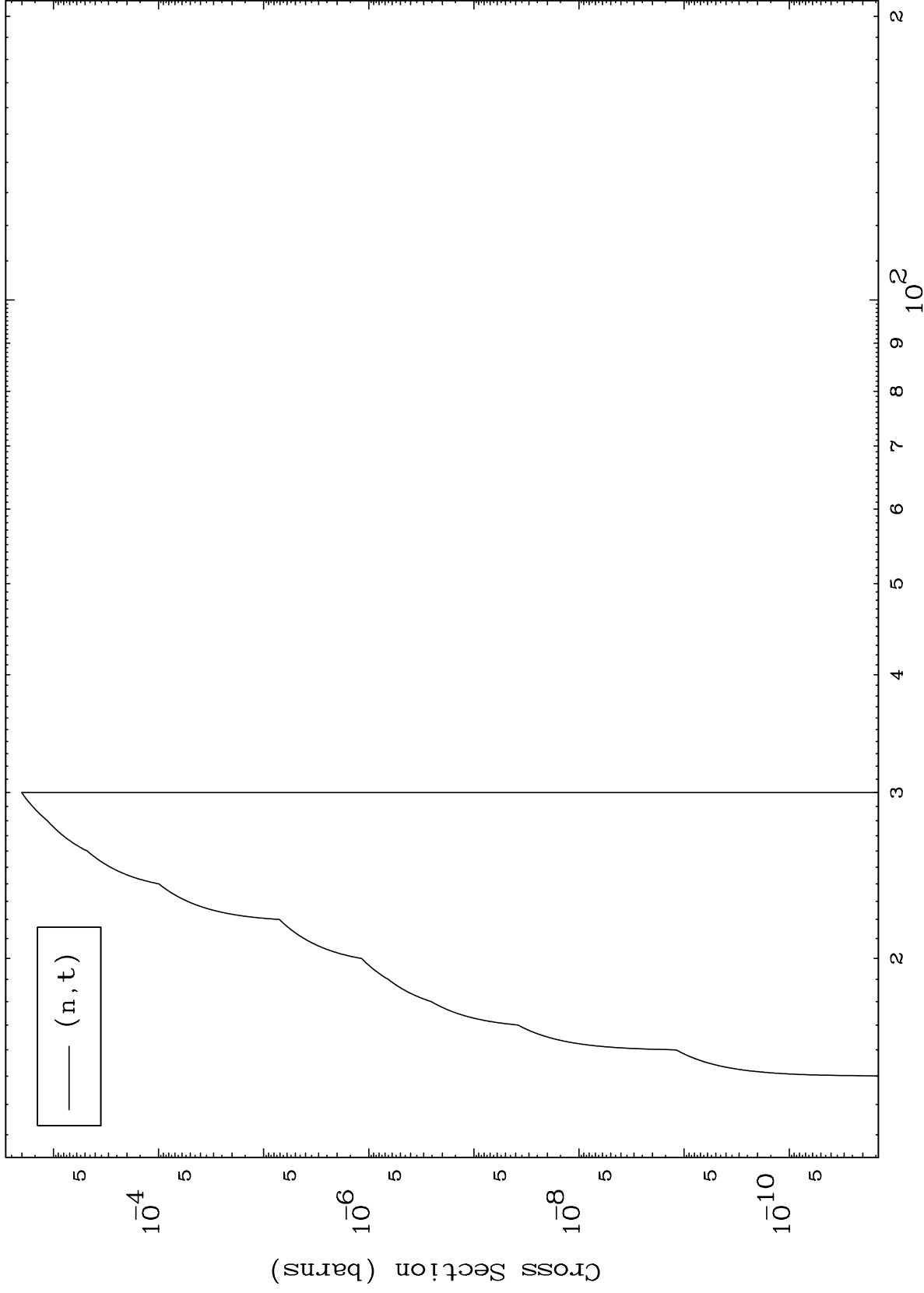
Incident Energy (MeV)

41-Nb-91m

MAT 4120

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

41-Nb-91m



8

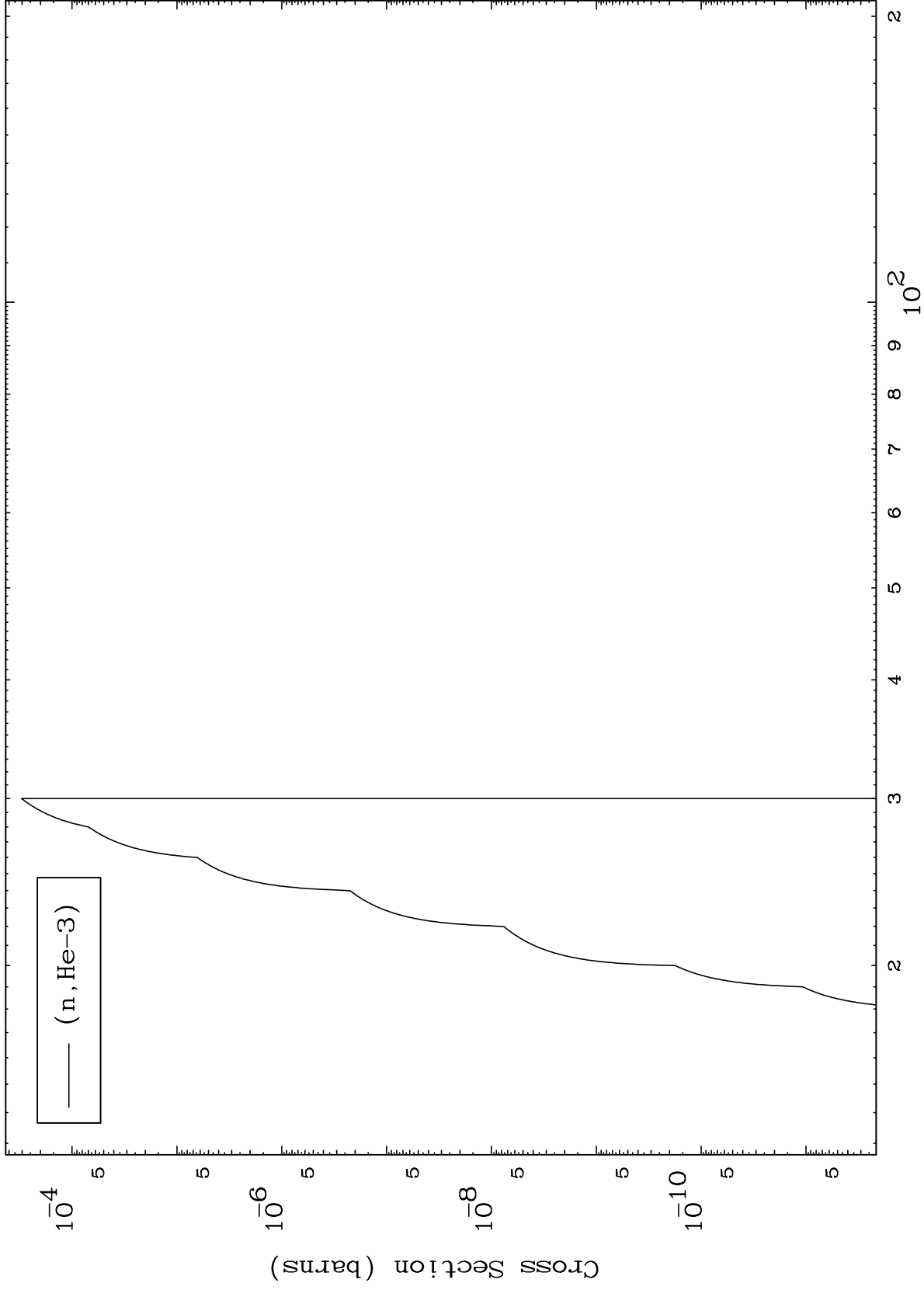
Incident Energy (MeV)

41-Nb-91m

MAT 4120

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

41-Nb-91m



9

Incident Energy (MeV)

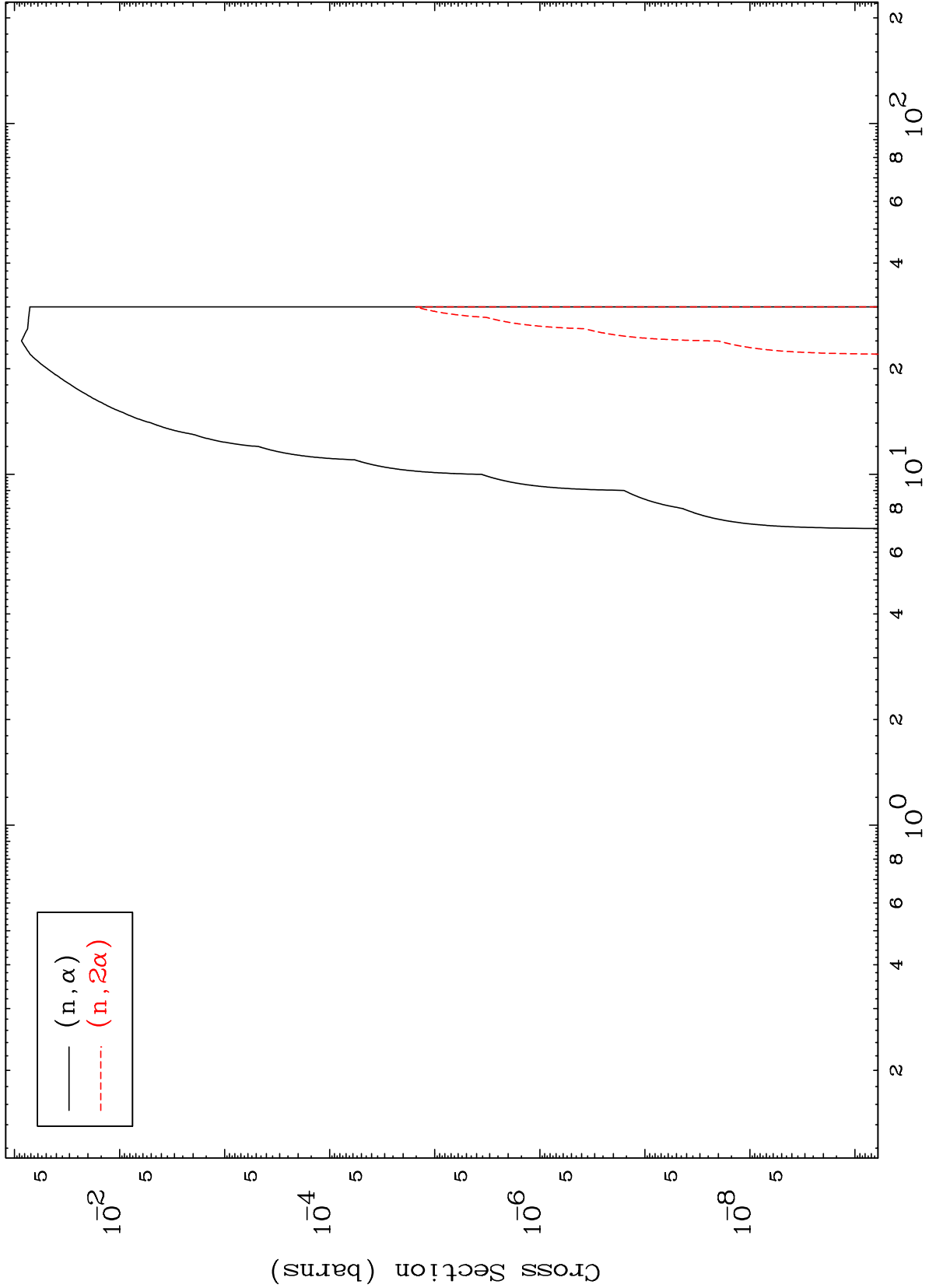
41-Nb-91m

MAT 4120

( $\alpha, \alpha$ ) Levels

41-Nb-91m

0 Kelvin Cross Sections



10

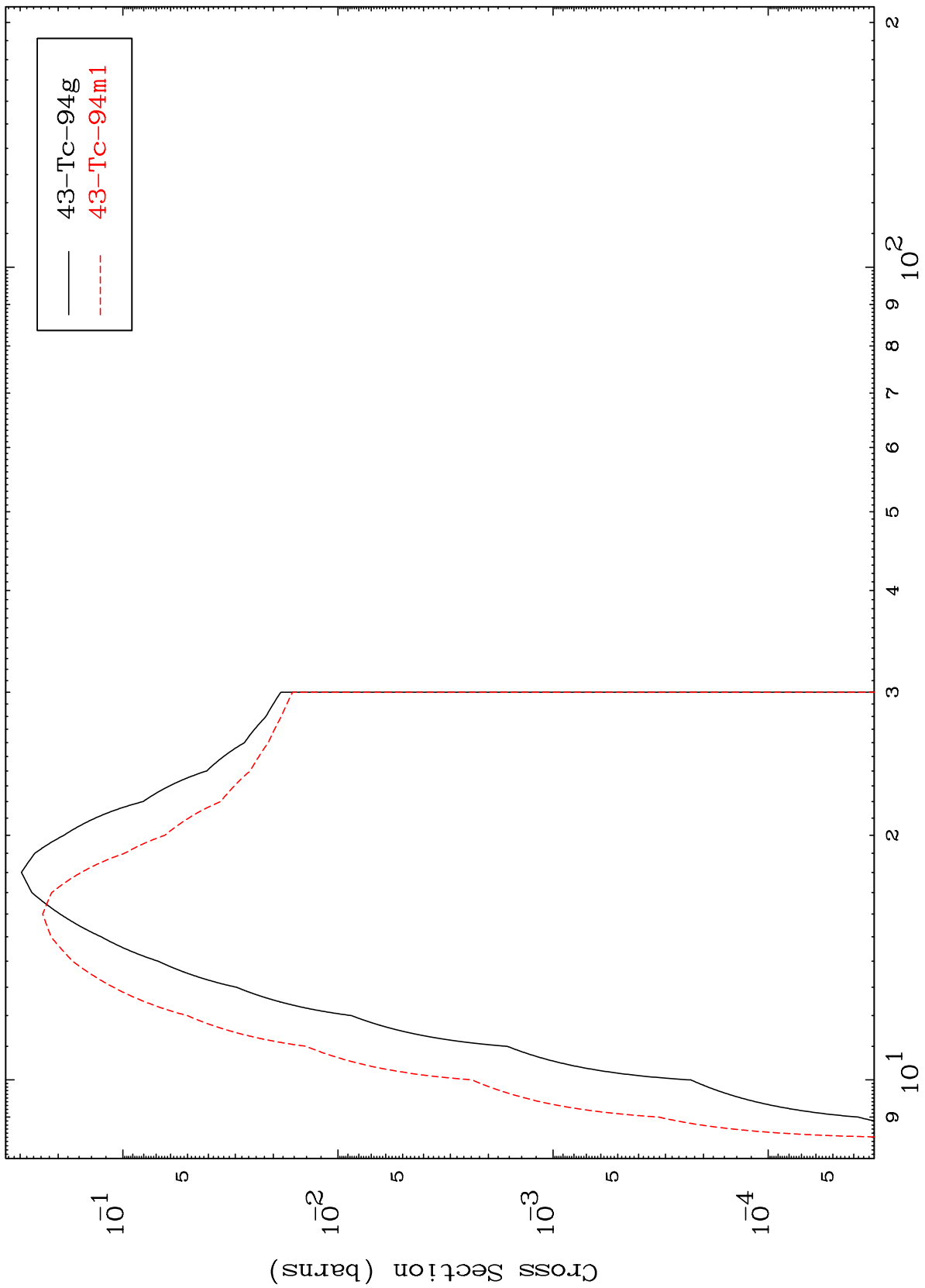
Incident Energy (MeV)

41-Nb-91m

MAT 4120

41-Nb-91m

Inelastic  
Radionuclide Production Cross Section



11

Incident Energy (MeV)

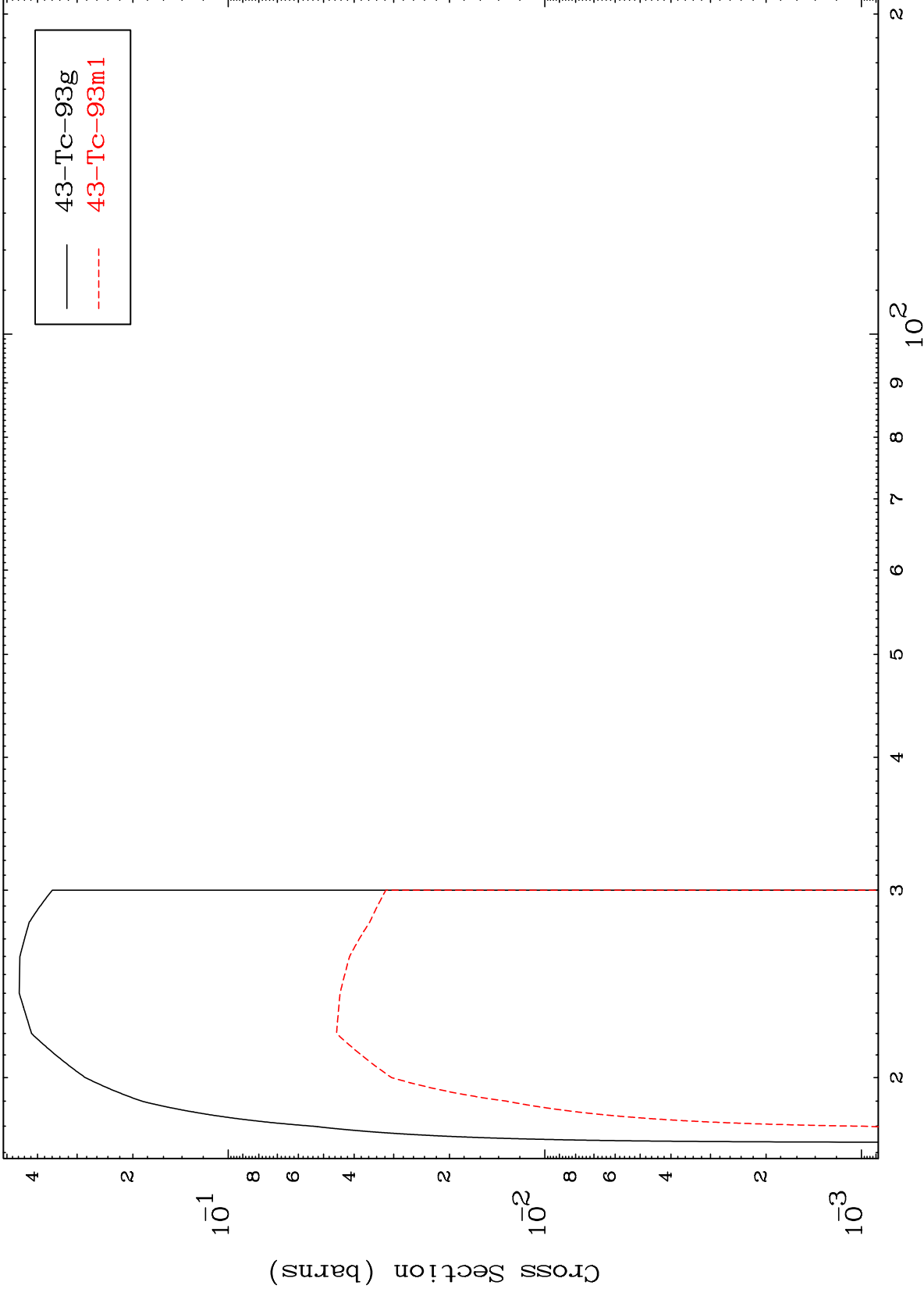
41-Nb-91m

MAT 4120

(n,2n)

41-Nb-91m

Radionuclide Production Cross Section



43-Tc-93g  
43-Tc-93m1

12

Incident Energy (MeV)

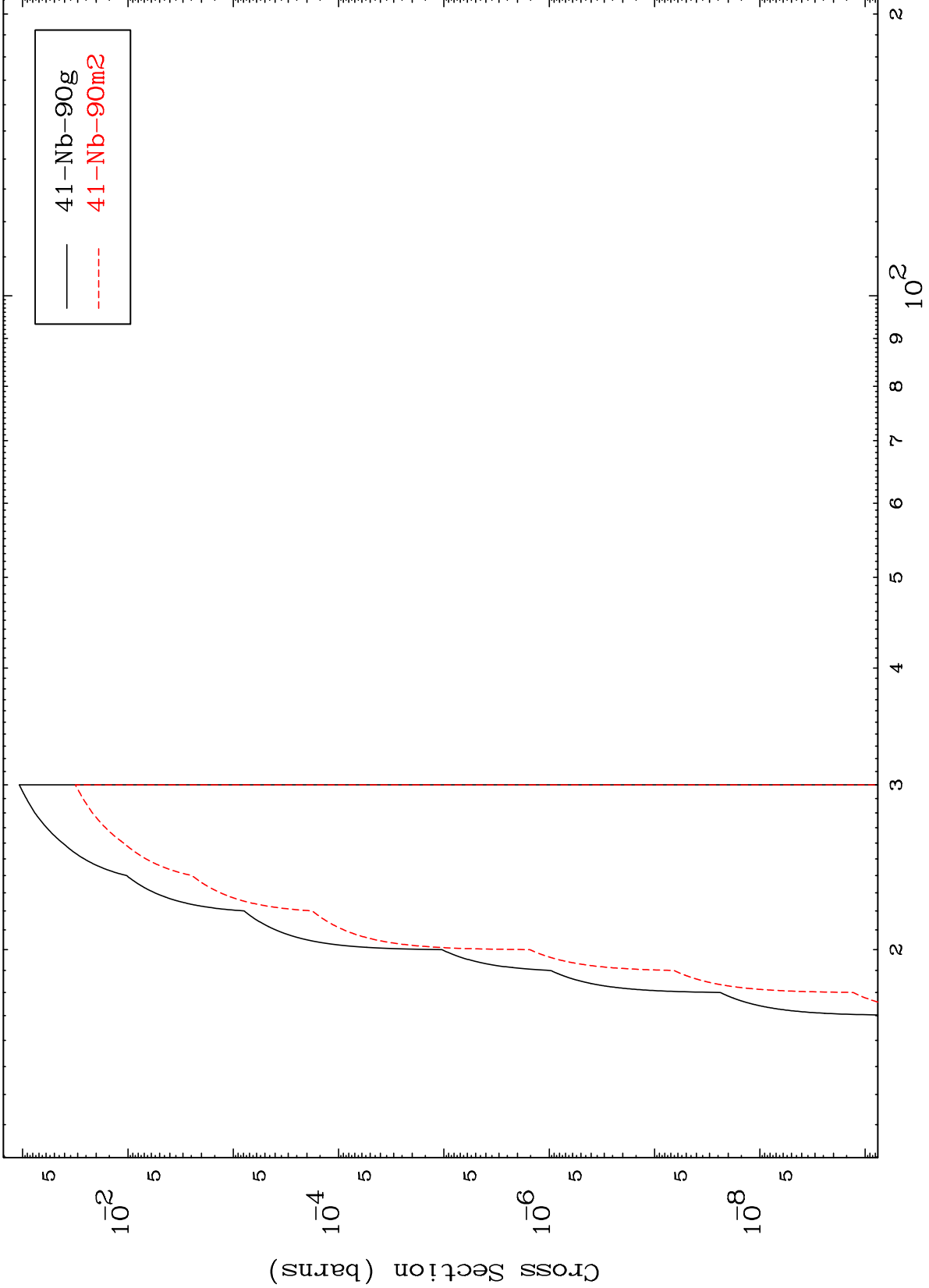
41-Nb-91m

MAT 4120

$(n, n') \alpha$

41-Nb-91m

Radionuclide Production Cross Section



41-Nb-90g  
41-Nb-90m2

13

Incident Energy (MeV)

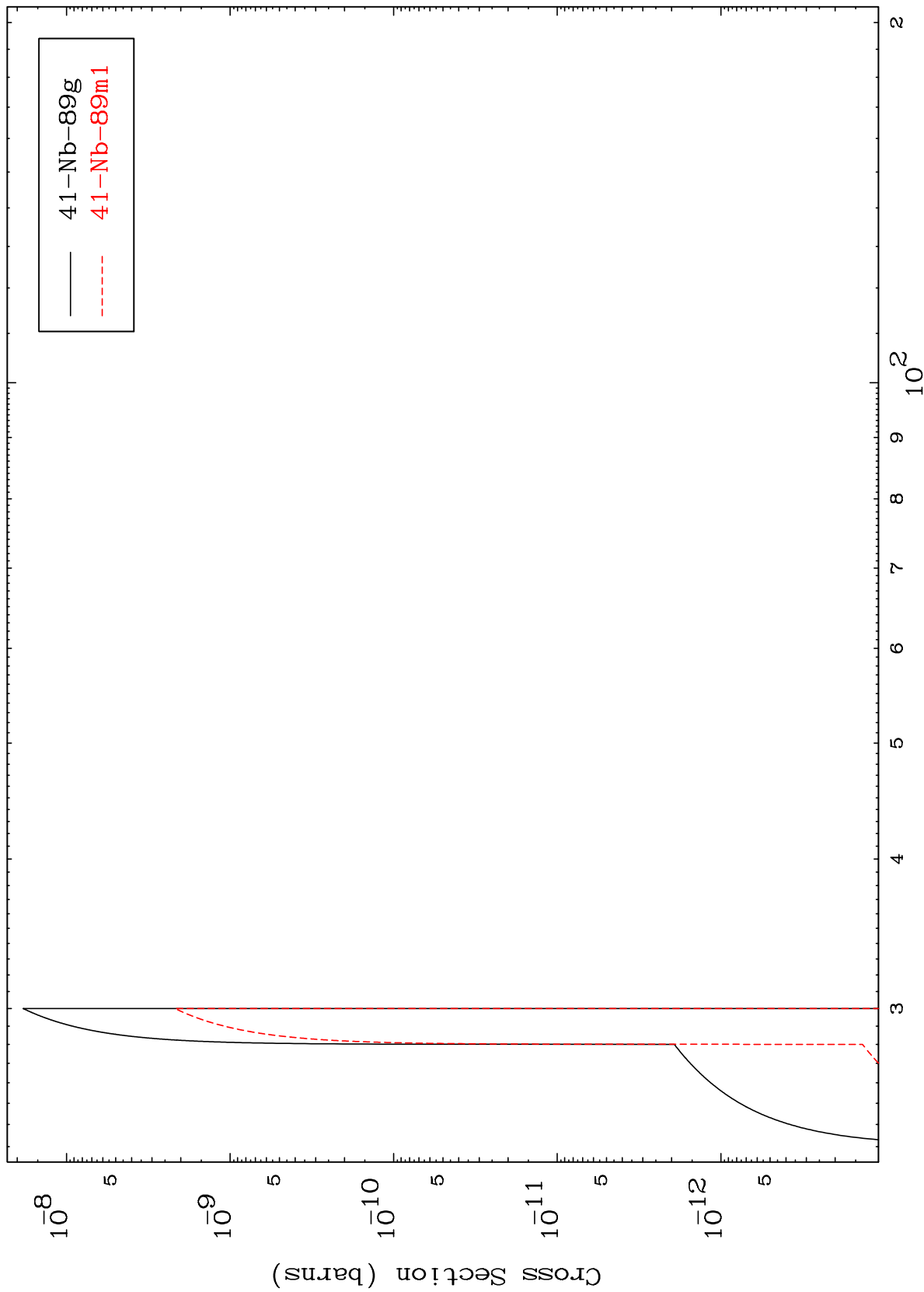
41-Nb-91m

MAT 4120

41-Nb-91m

(n,2n)  $\alpha$

Radionuclide Production Cross Section



41-Nb-91m

Incident Energy (MeV)

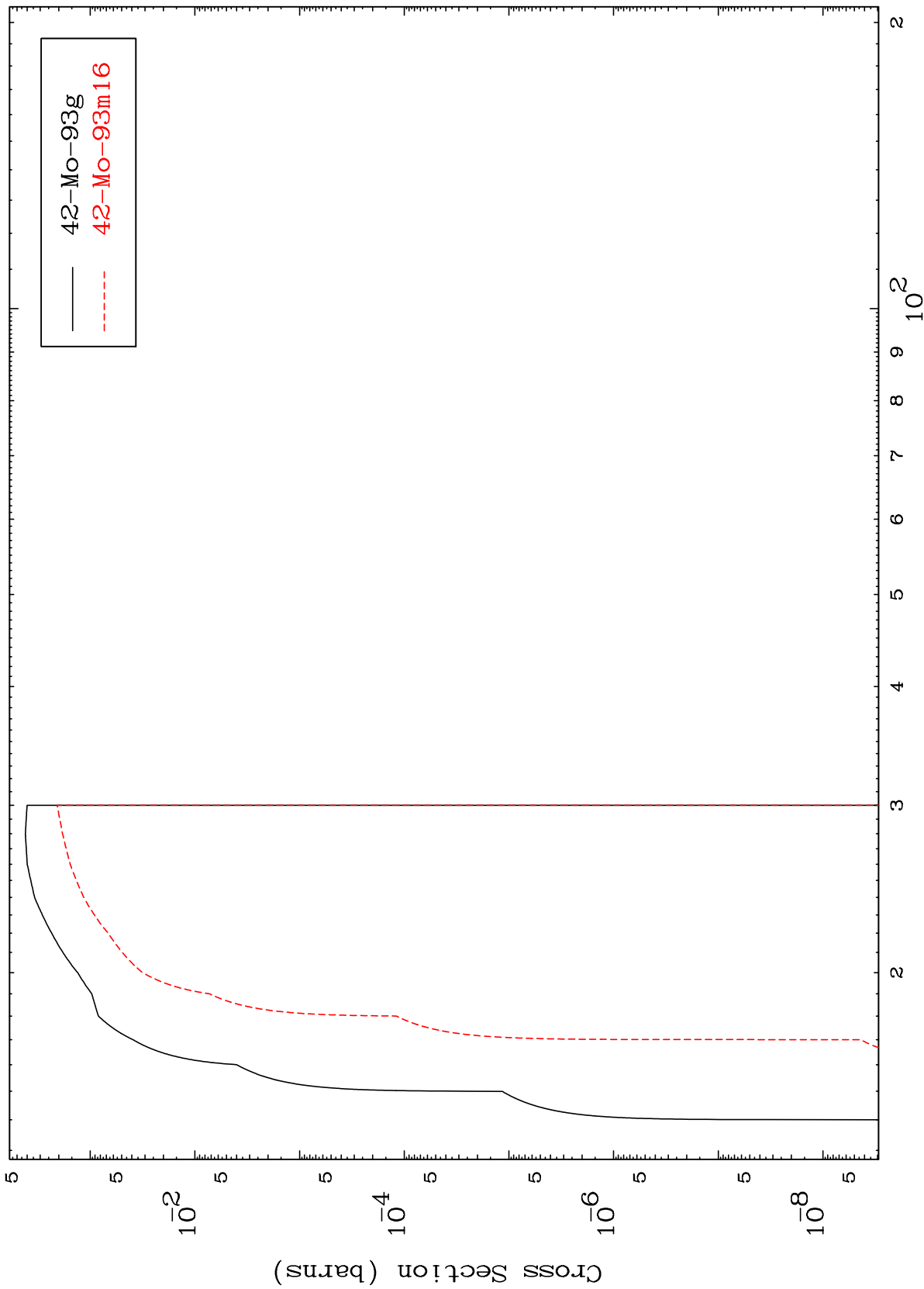
14

MAT 4120

(n,n') p

41-Nb-91m

Radionuclide Production Cross Section



15

Incident Energy (MeV)

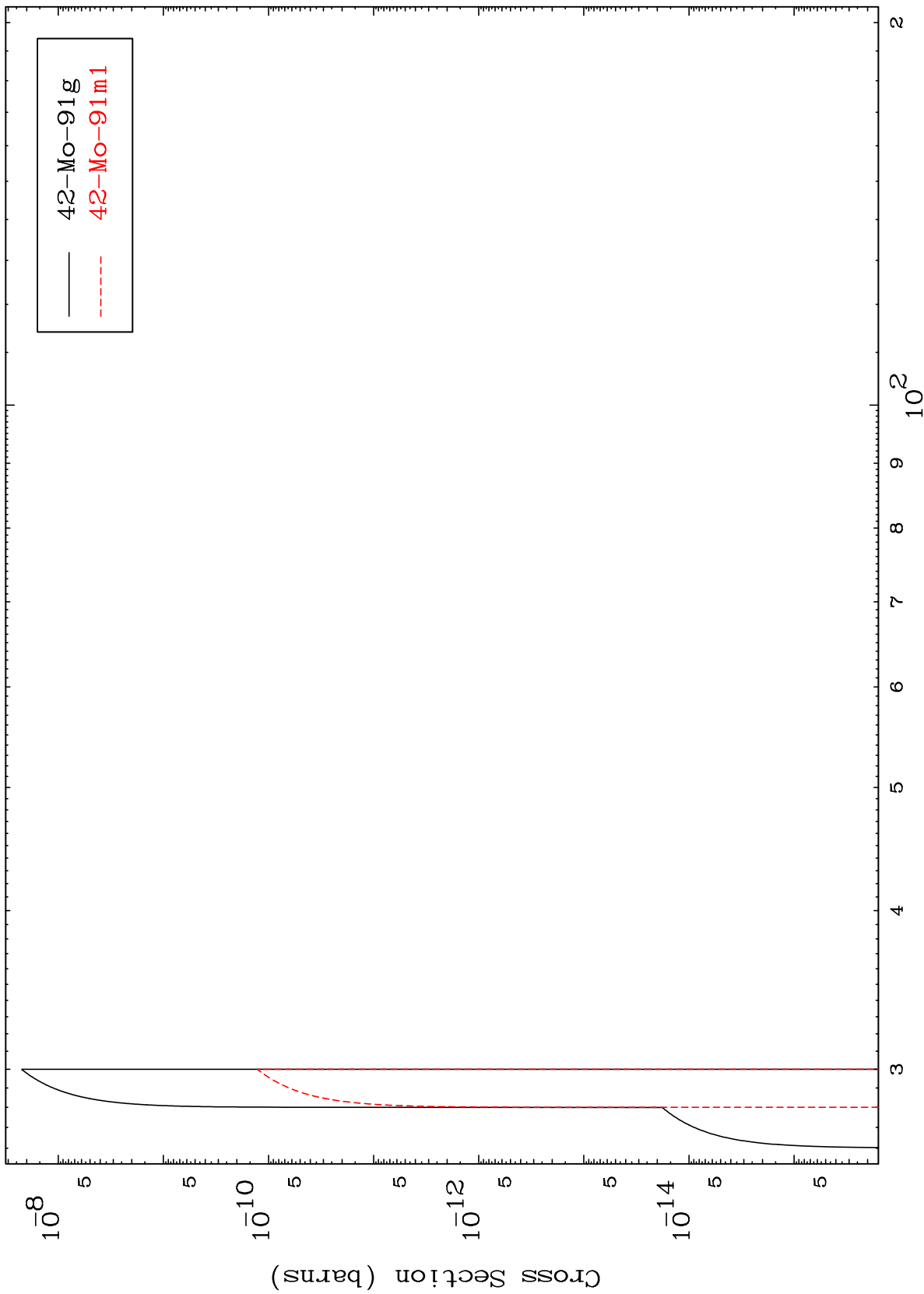
41-Nb-91m

MAT 4120

(n,n') t

41-Nb-91m

Radionuclide Production Cross Section



16

Incident Energy (MeV)

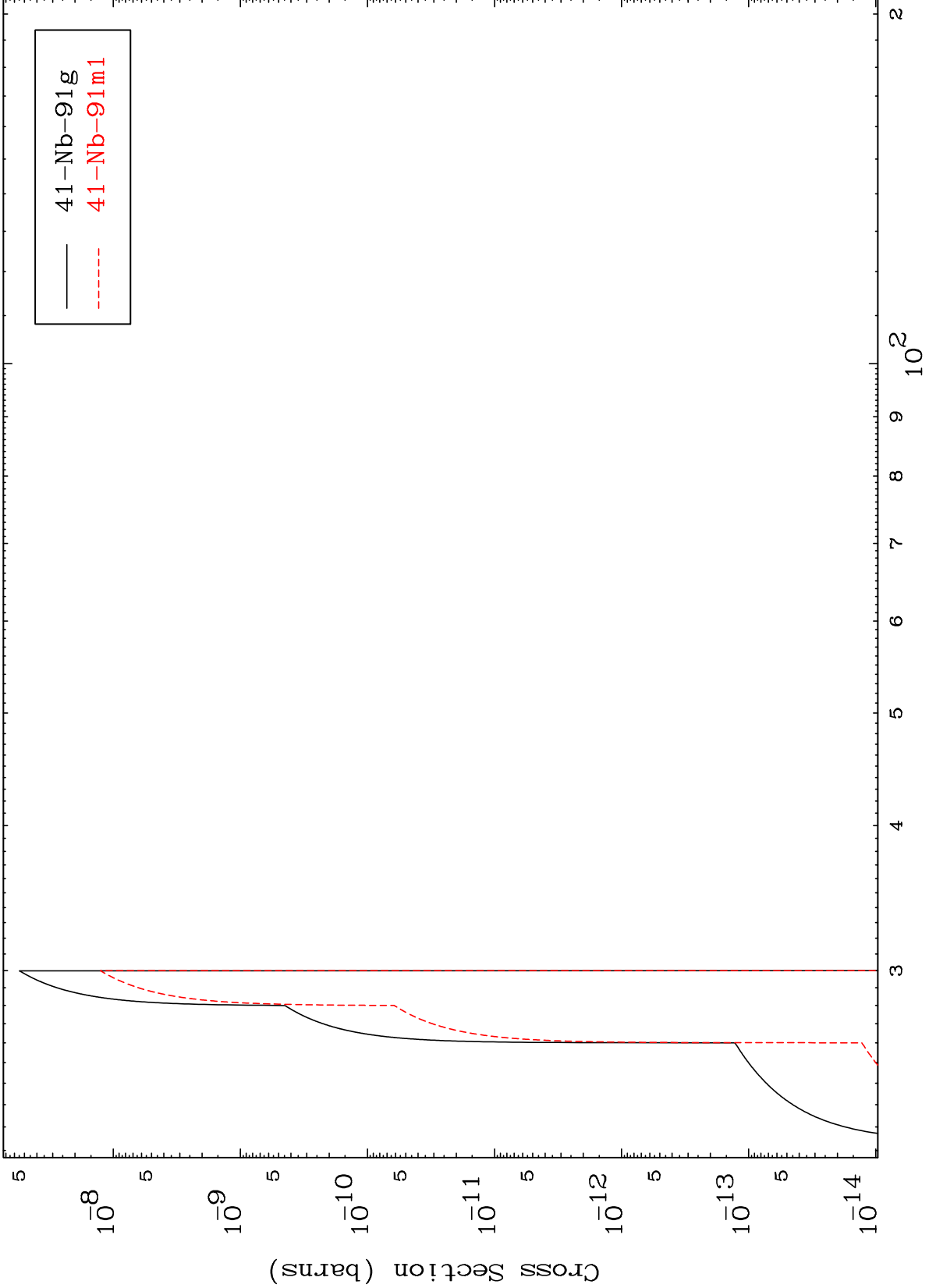
41-Nb-91m

MAT 4120

(n,n') He-3

41-Nb-91m

Radionuclide Production Cross Section



41-Nb-91g  
41-Nb-91m1

17

Incident Energy (MeV)

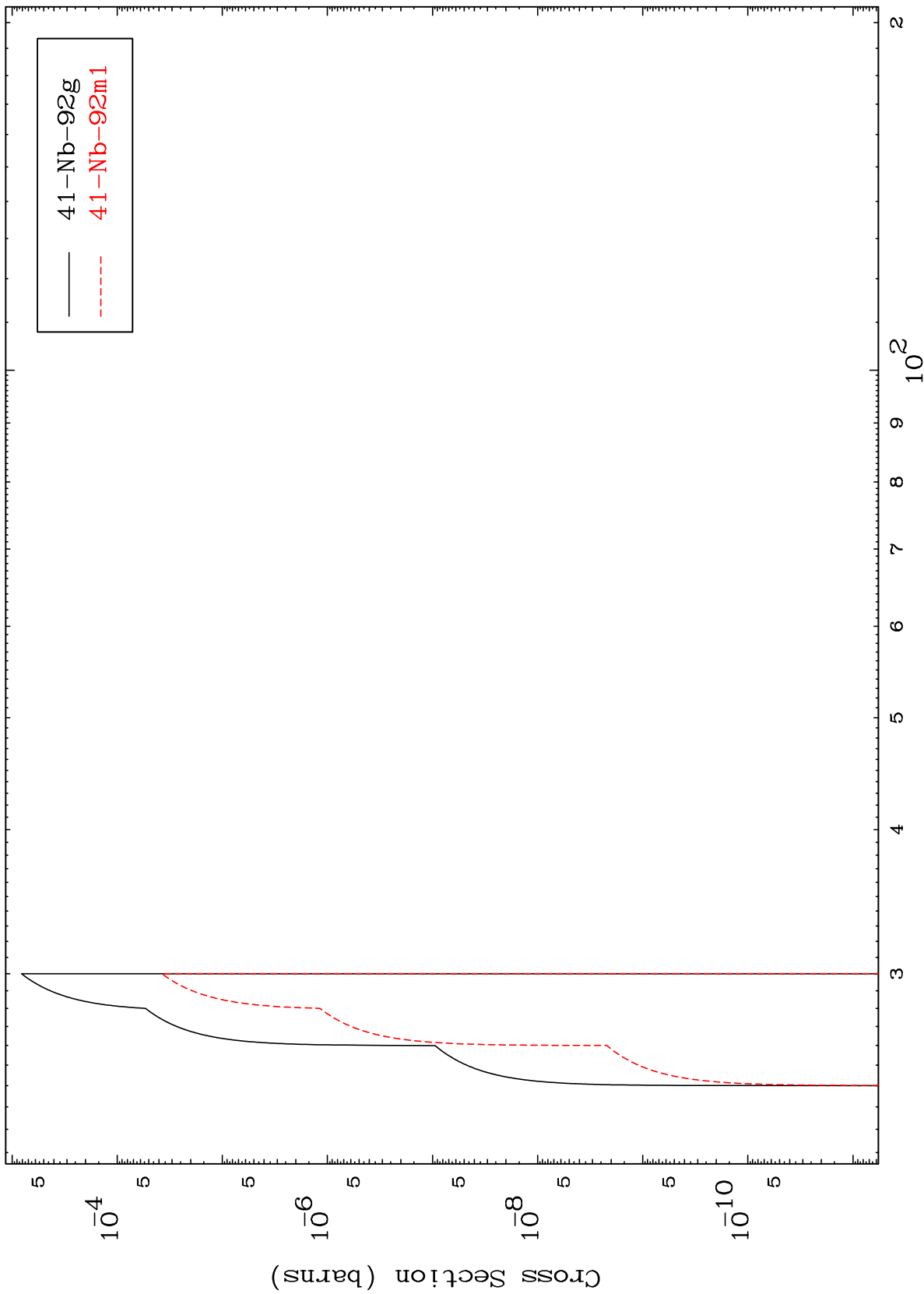
41-Nb-91m

MAT 4120

(n,2n) p

41-Nb-91m

Radionuclide Production Cross Section

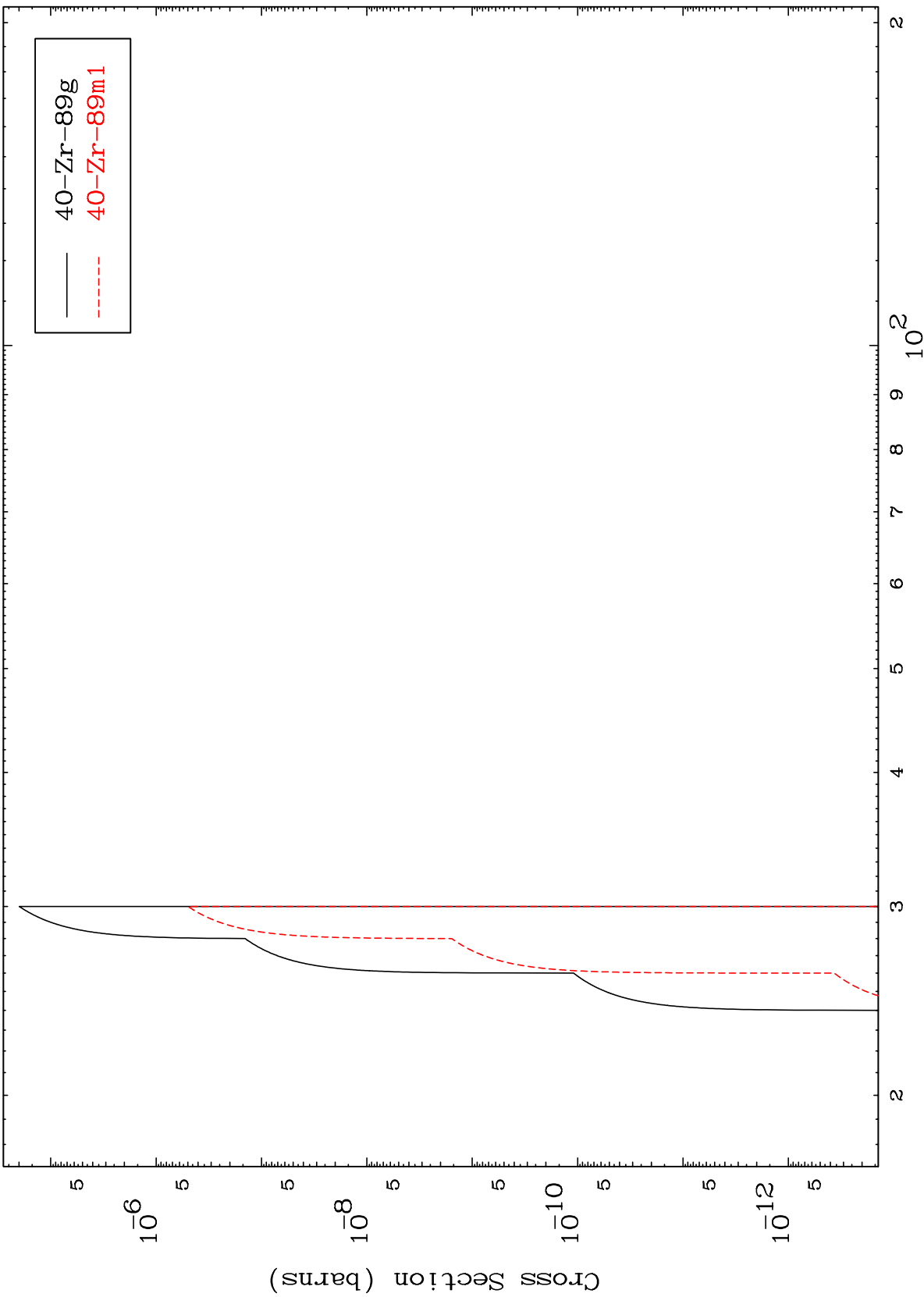


18

Incident Energy (MeV)

41-Nb-91m

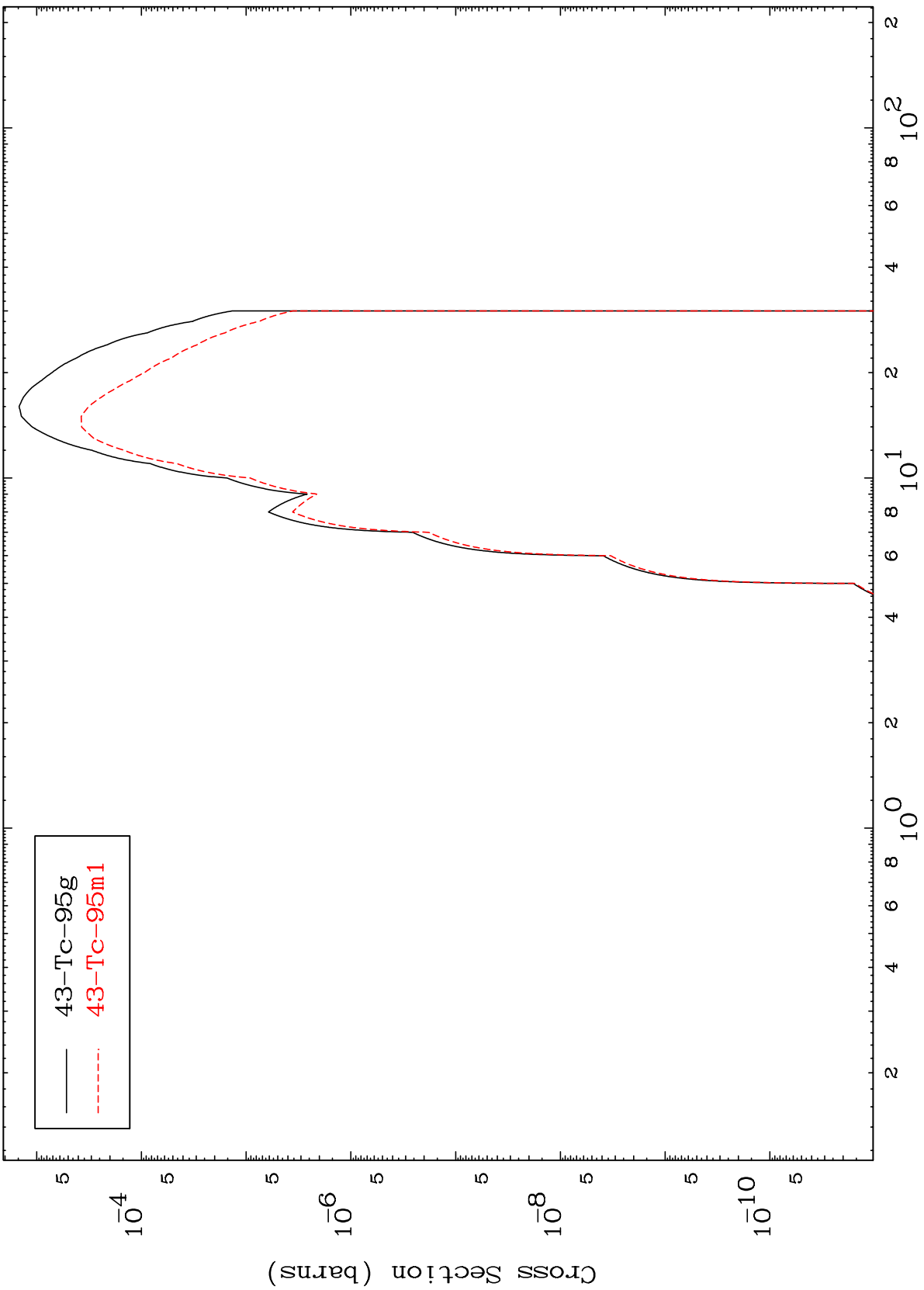
Radionuclide Production Cross Section



MAT 4120

41-Nb-91m

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



20

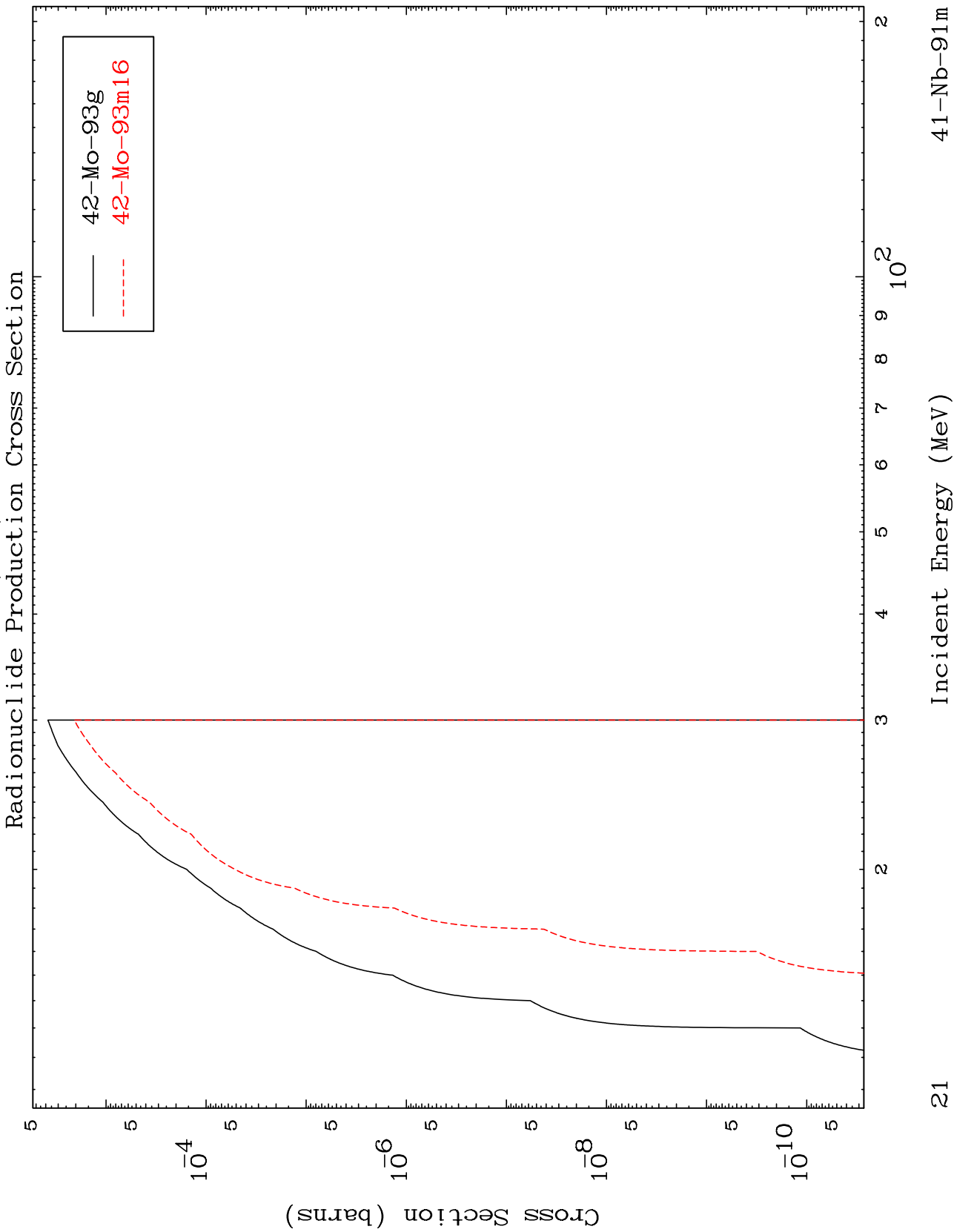
Incident Energy (MeV)

41-Nb-91m

MAT 4120

(n,d)

41-Nb-91m



21

Incident Energy (MeV)

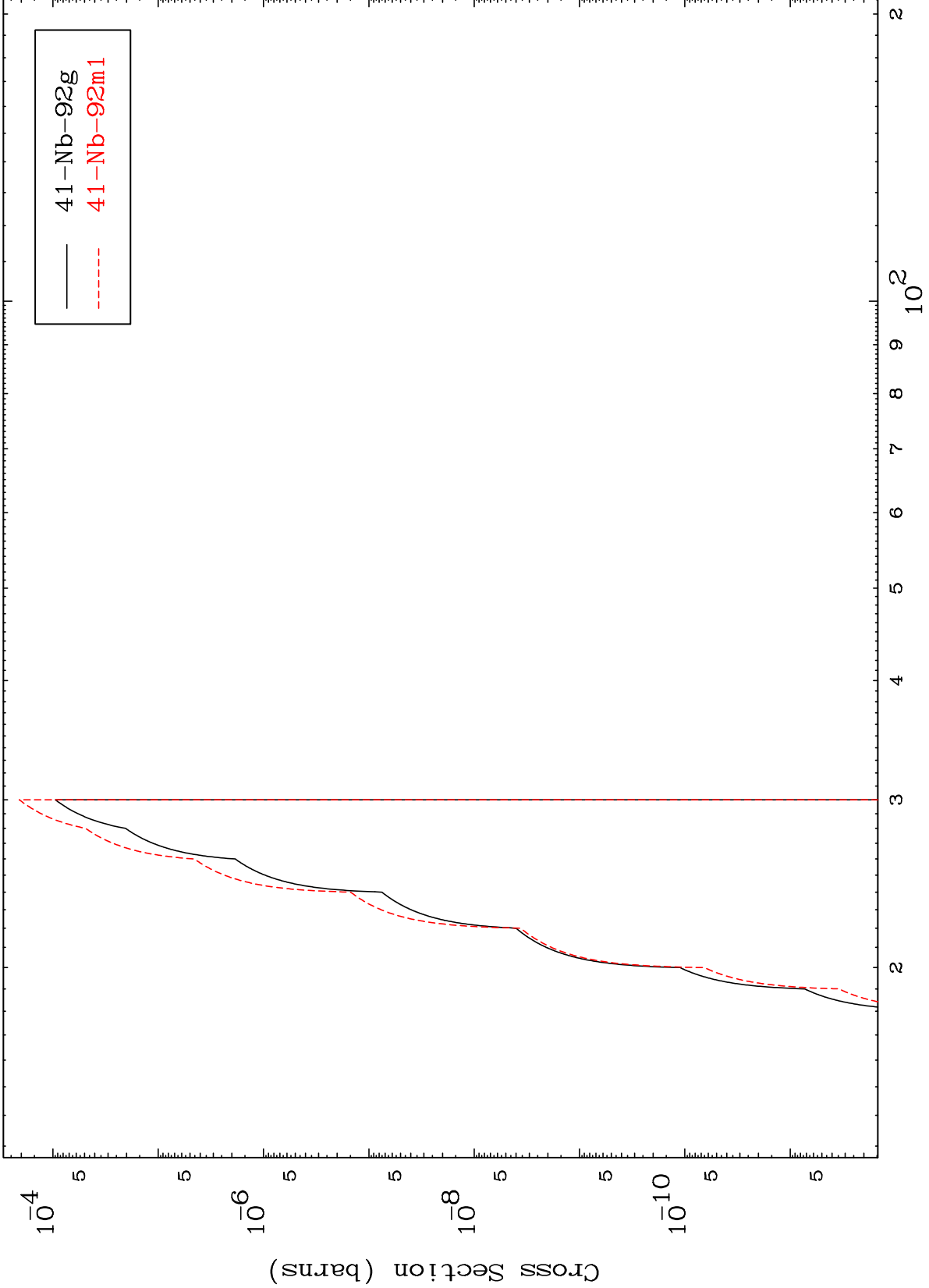
41-Nb-91m

MAT 4120

(n,He-3)

41-Nb-91m

Radionuclide Production Cross Section



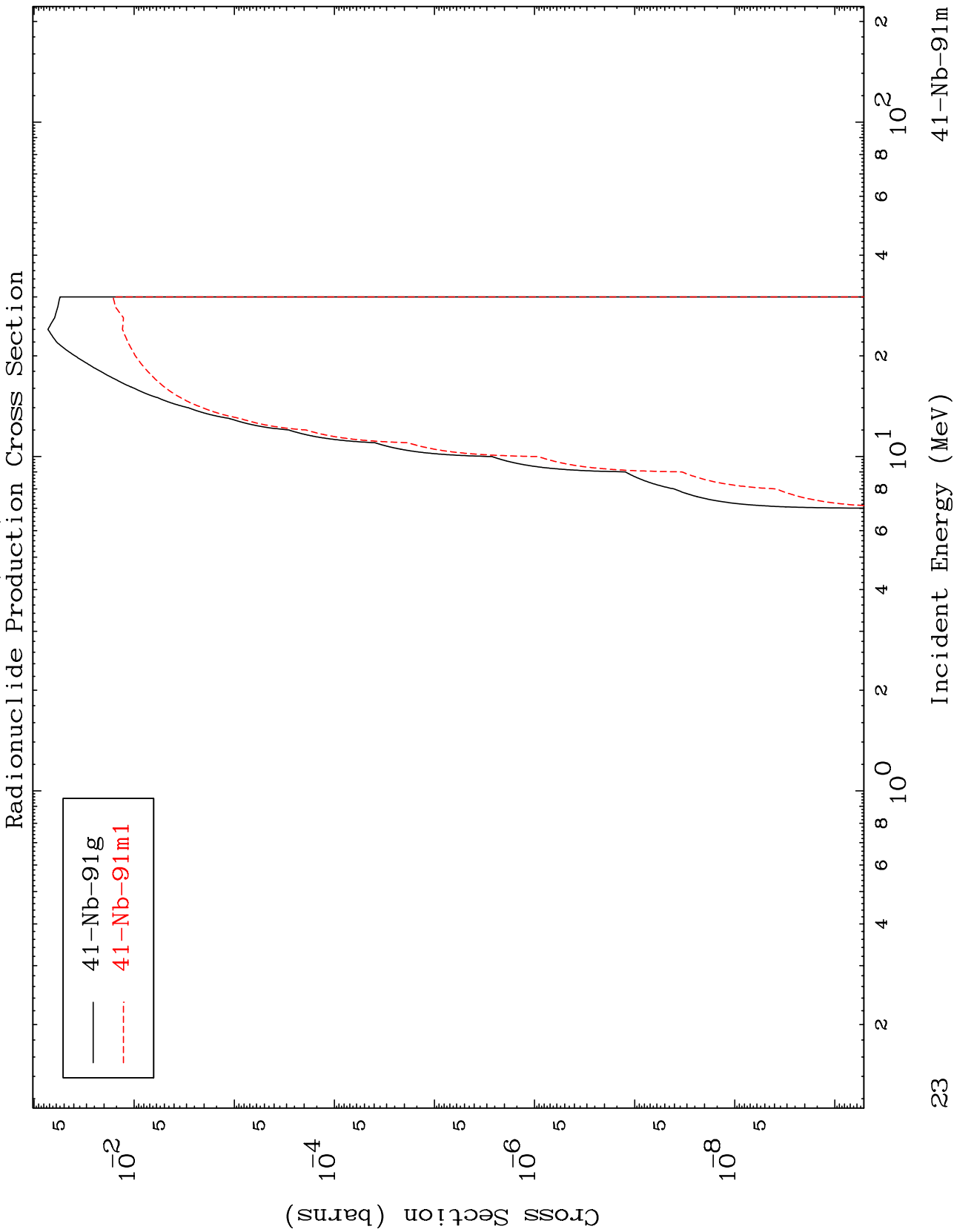
22

Incident Energy (MeV)

41-Nb-91m

MAT 4120

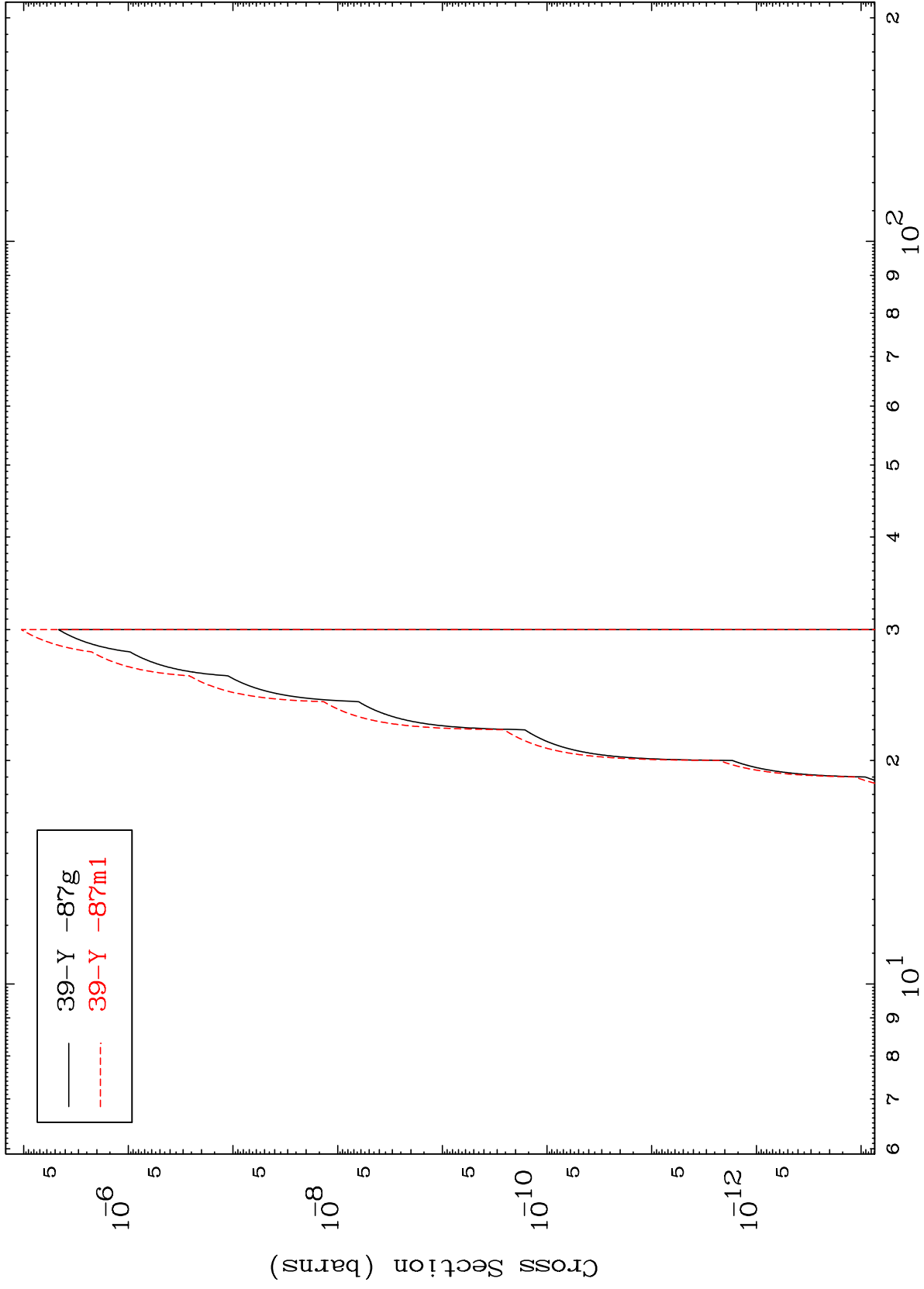
41-Nb-91m



MAT 4120

41-Nb-91m

Radionuclide Production Cross Section  
(n,2α)

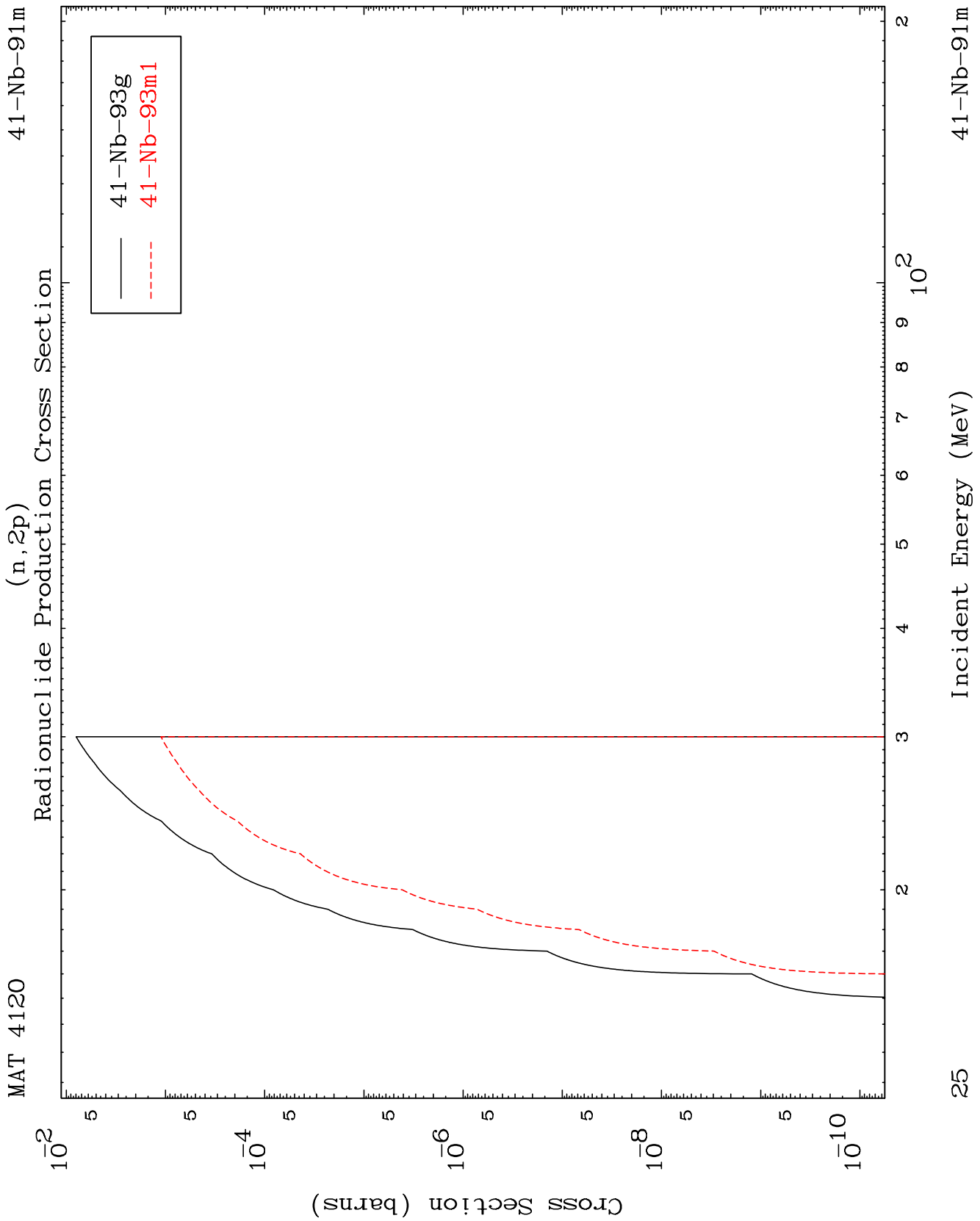


— 39-Y -87g  
- - - 39-Y -87m1

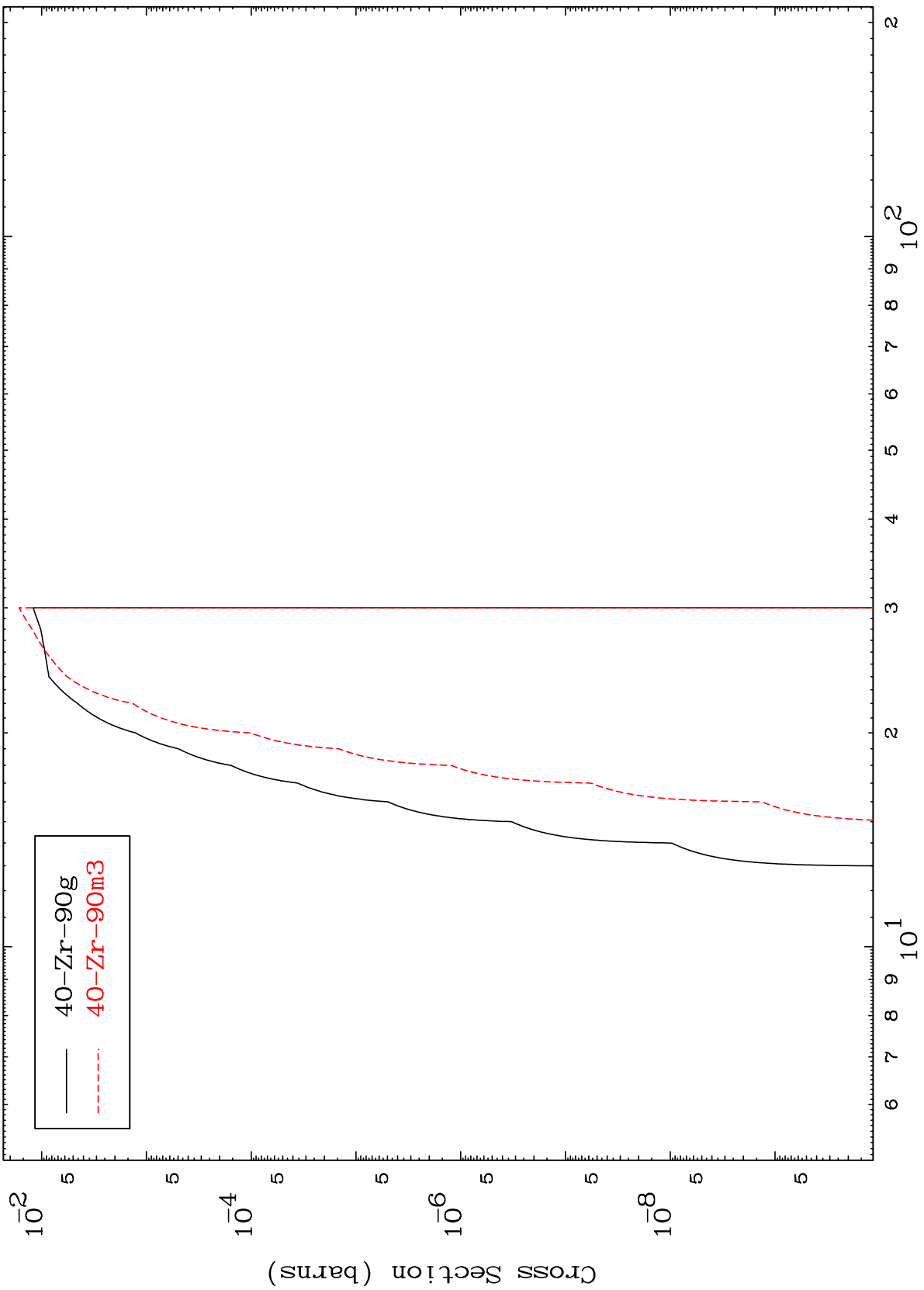
24

Incident Energy (MeV)

41-Nb-91m



Radionuclide Production Cross Section

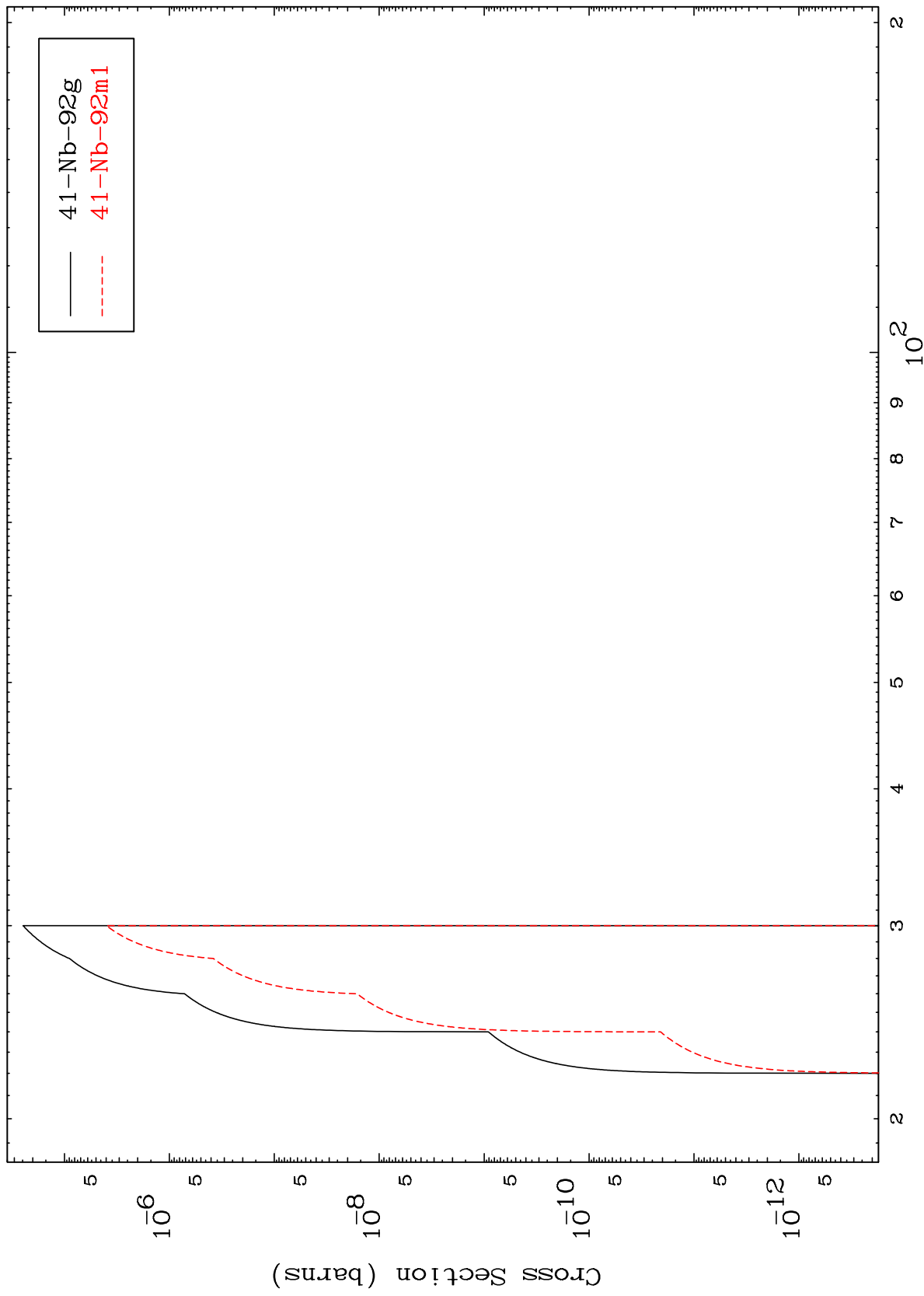


MAT 4120

(n,p) d

41-Nb-91m

Radionuclide Production Cross Section



27

Incident Energy (MeV)

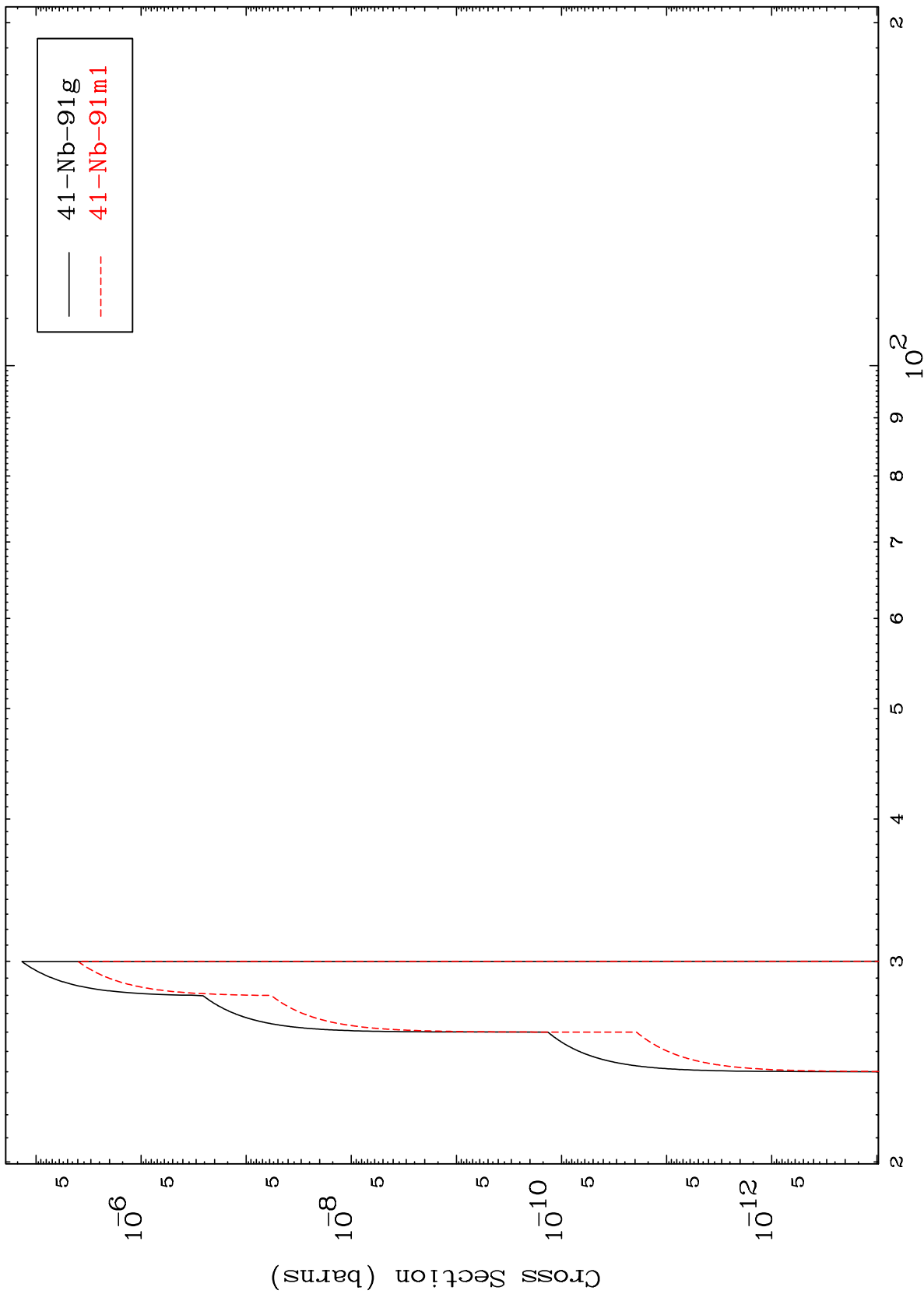
41-Nb-91m

MAT 4120

(n,p) t

41-Nb-91m

Radionuclide Production Cross Section



28

Incident Energy (MeV)

41-Nb-91m

Radionuclide Production Cross Section

