

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

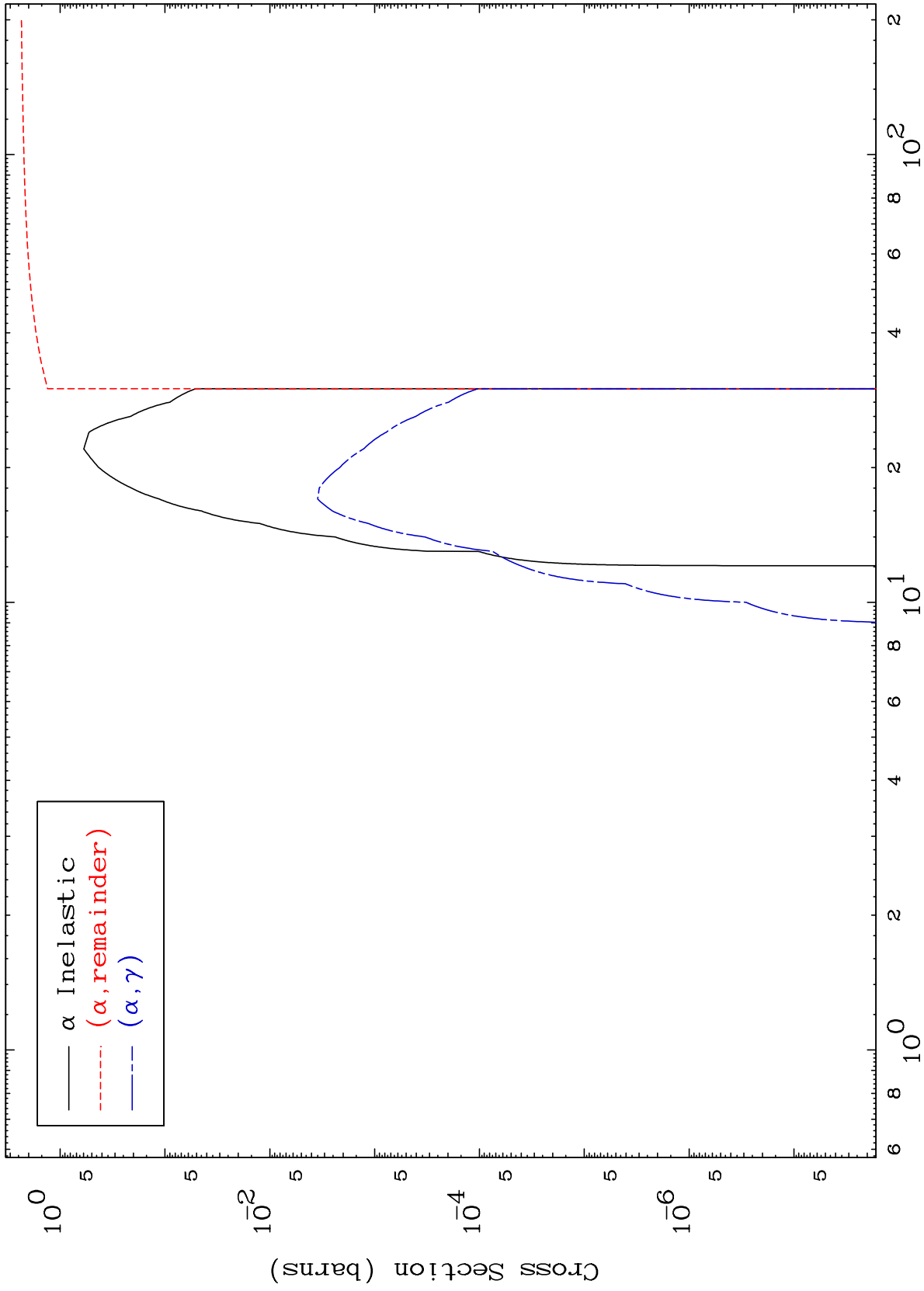
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6013

0 Kelvin α Major
Cross Sections

60-Nd-138



1

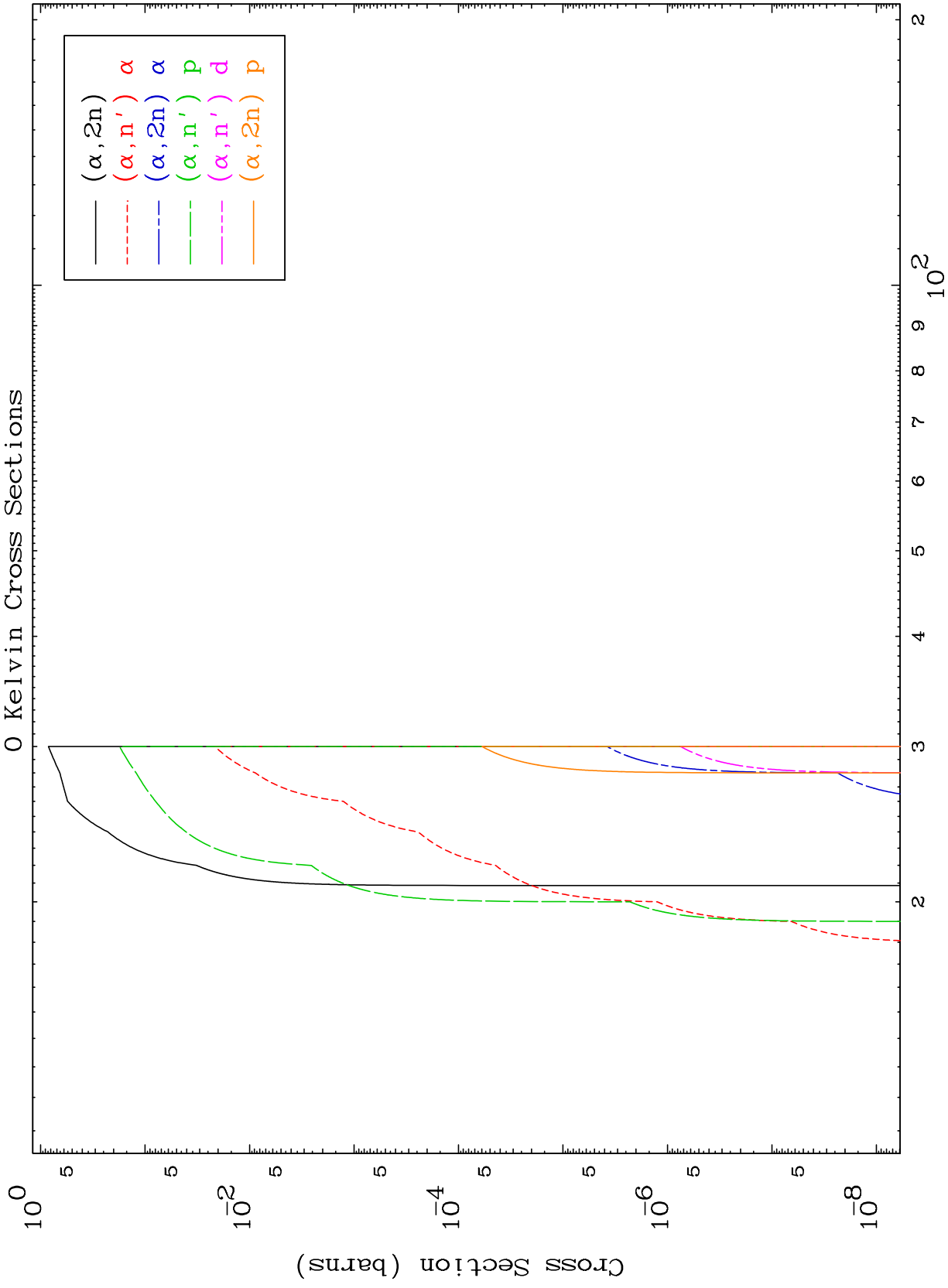
Incident Energy (MeV)

60-Nd-138

MAT 6013

α Neutron Production
0 Kelvin Cross Sections

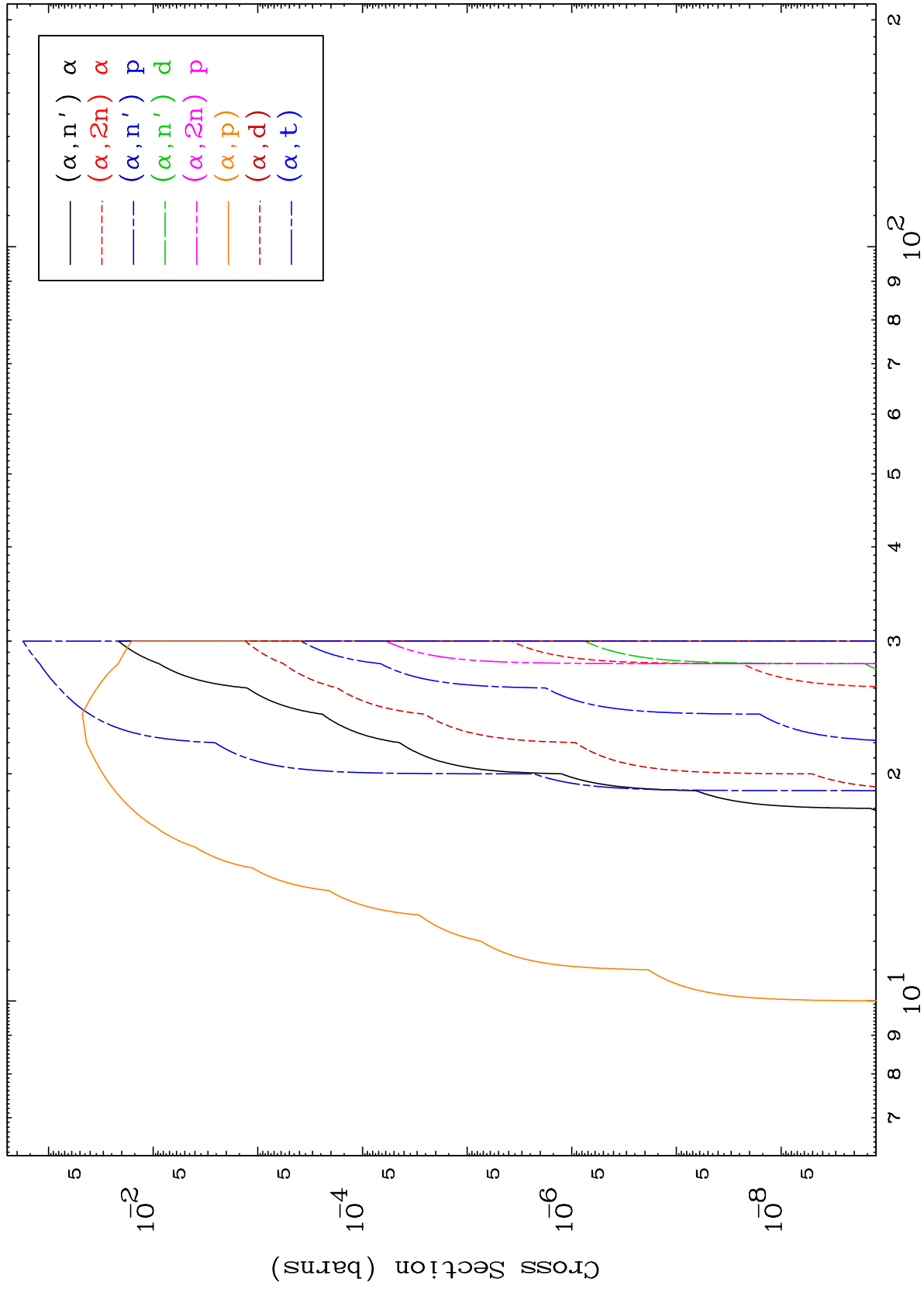
60-Nd-138



2

Incident Energy (MeV)

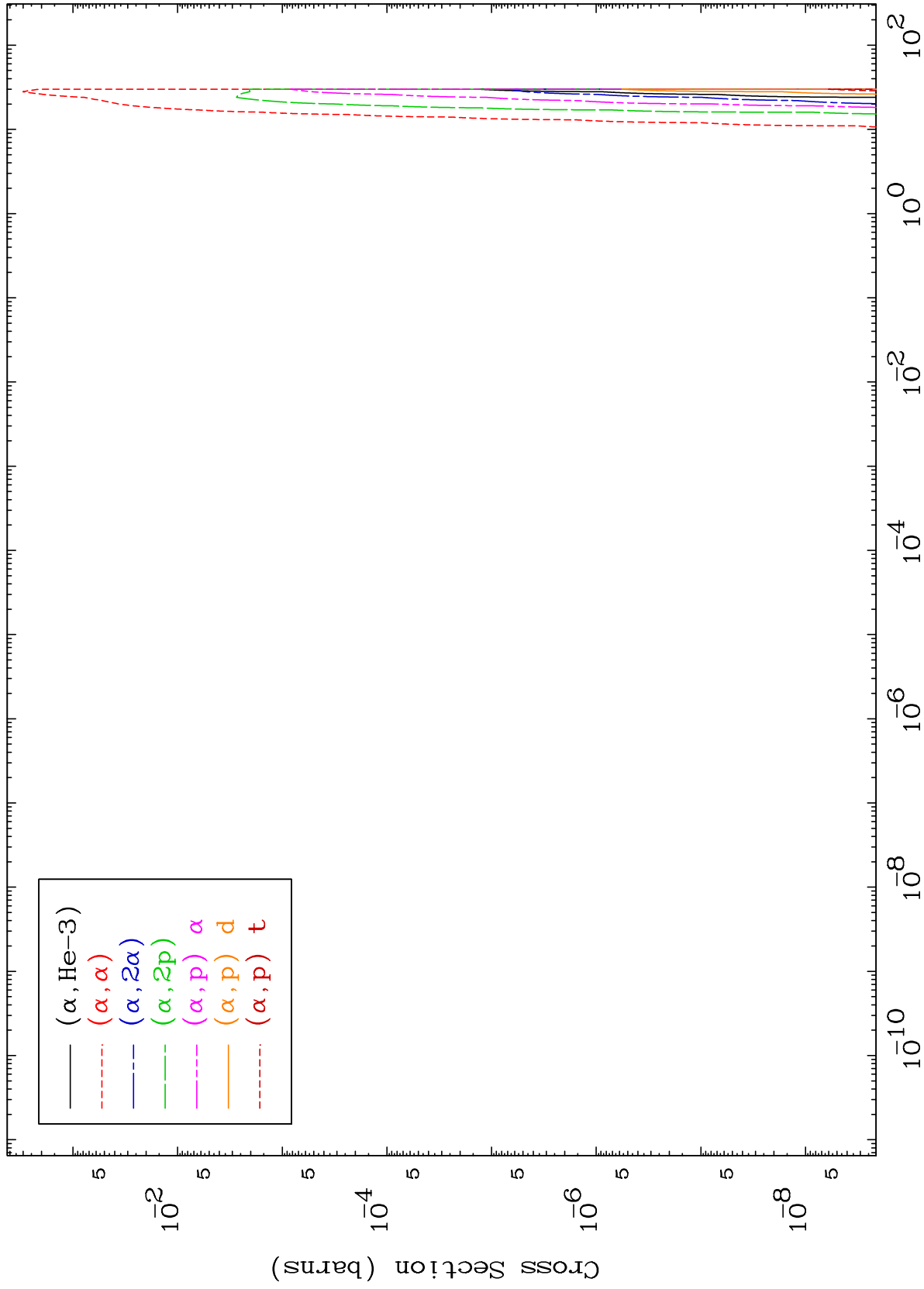
60-Nd-138



MAT 6013

α Charged Particle
0 Kelvin Cross Sections

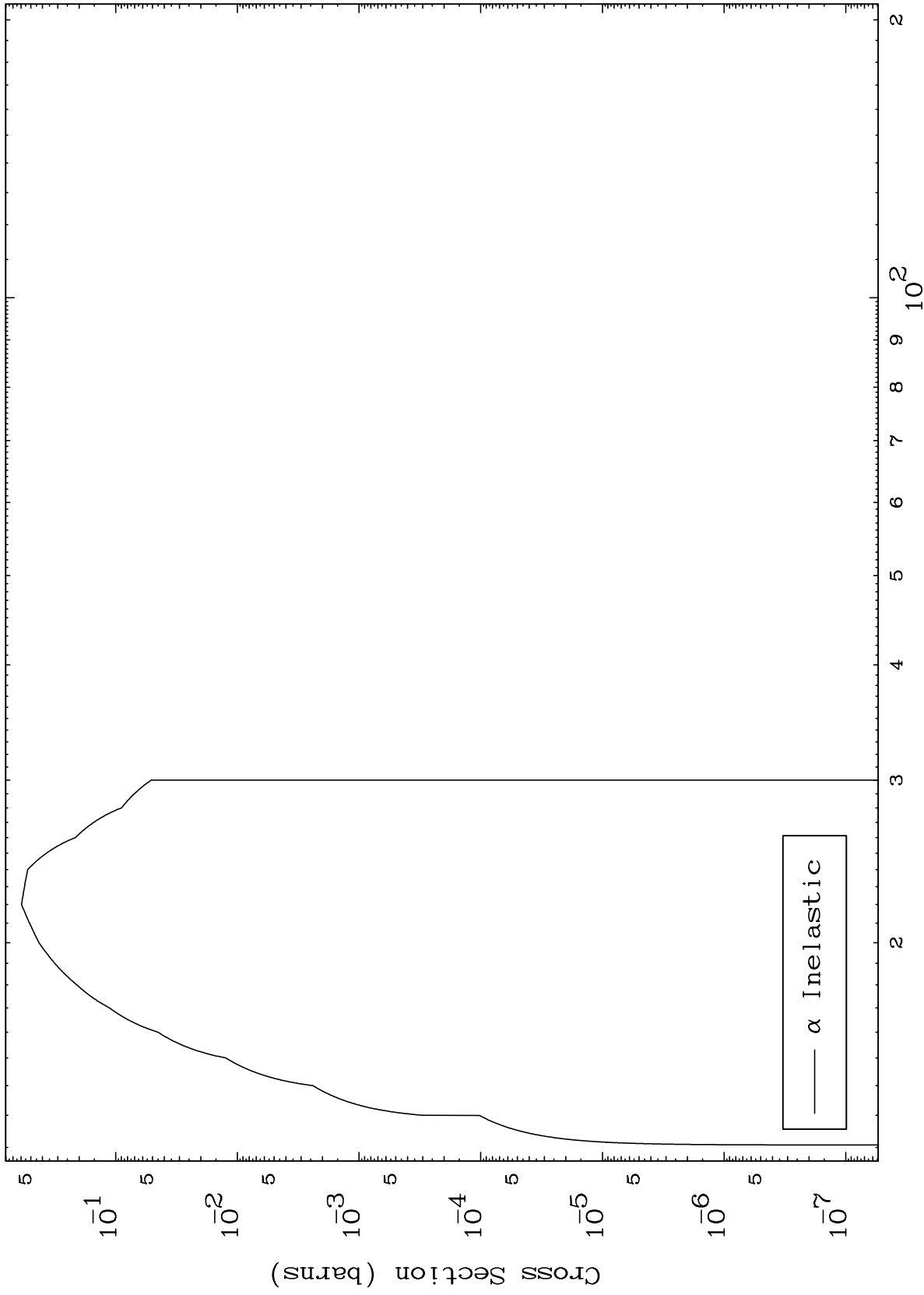
60-Nd-138



MAT 6013

(α, n') Level
0 Kelvin Cross Sections

60-Nd-138



5

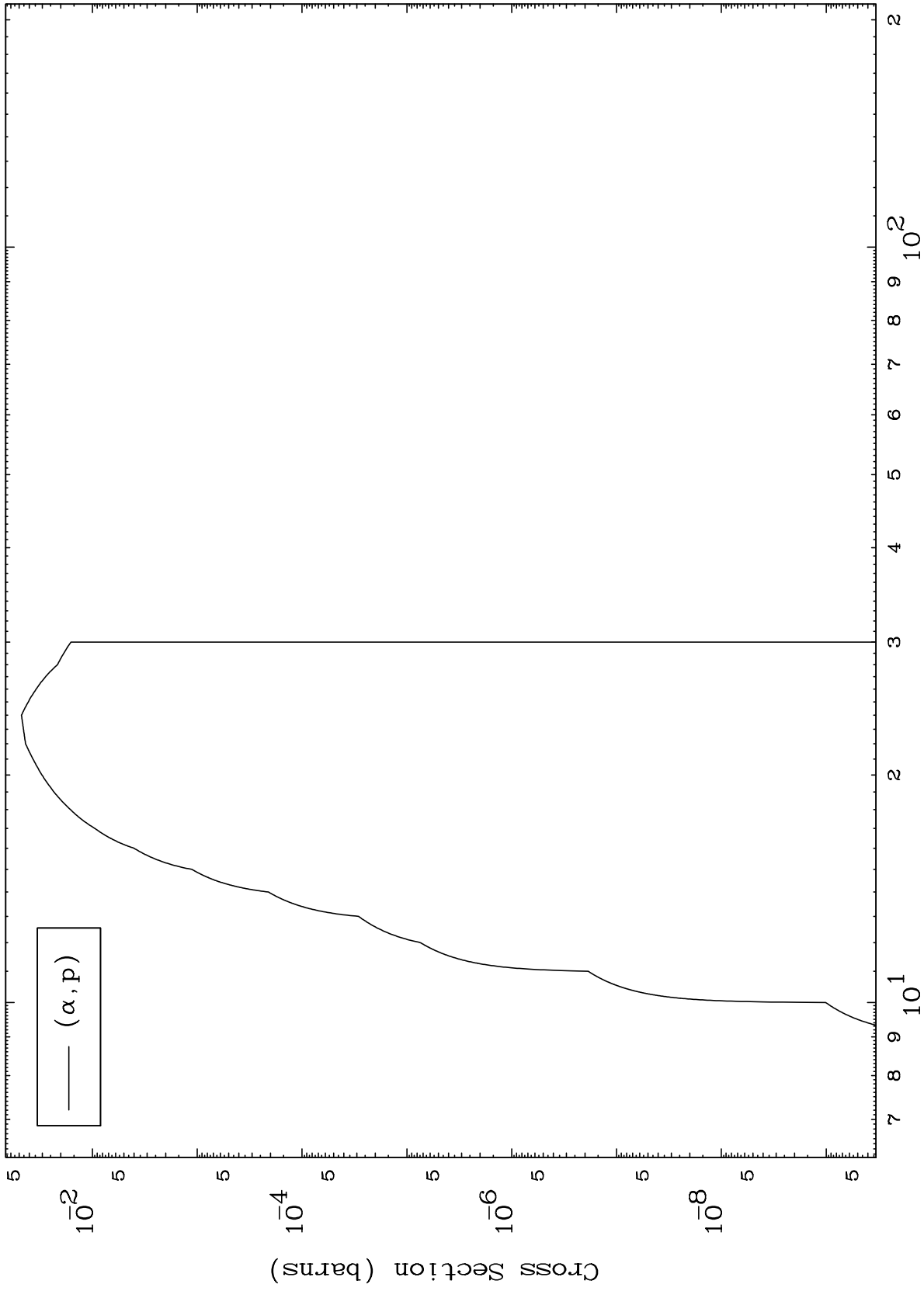
Incident Energy (MeV)

60-Nd-138

MAT 6013

60-Nd-138

(α, p) Levels
0 Kelvin Cross Sections



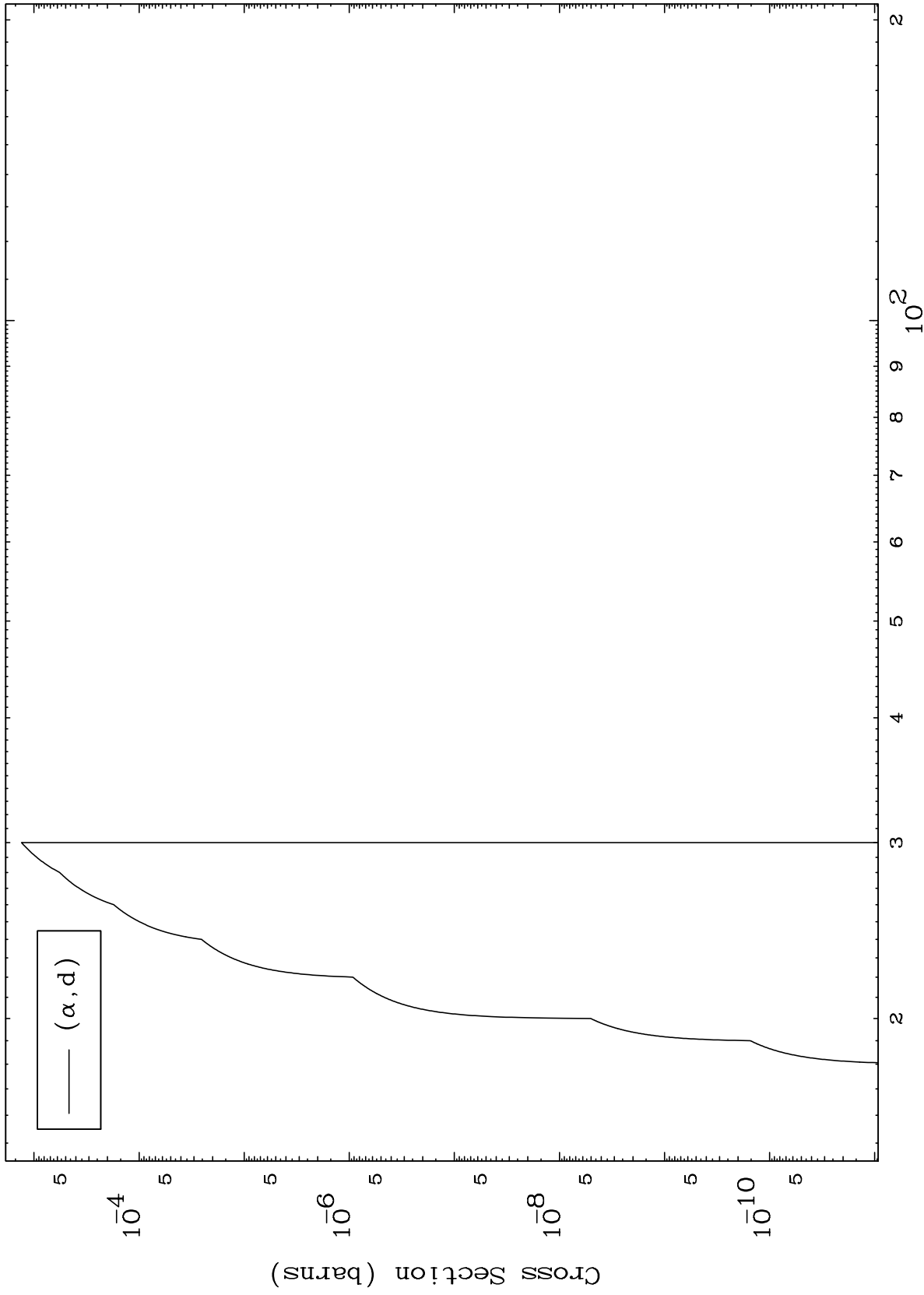
6

60-Nd-138

MAT 6013

(α, d) Levels
0 Kelvin Cross Sections

60-Nd-138



7

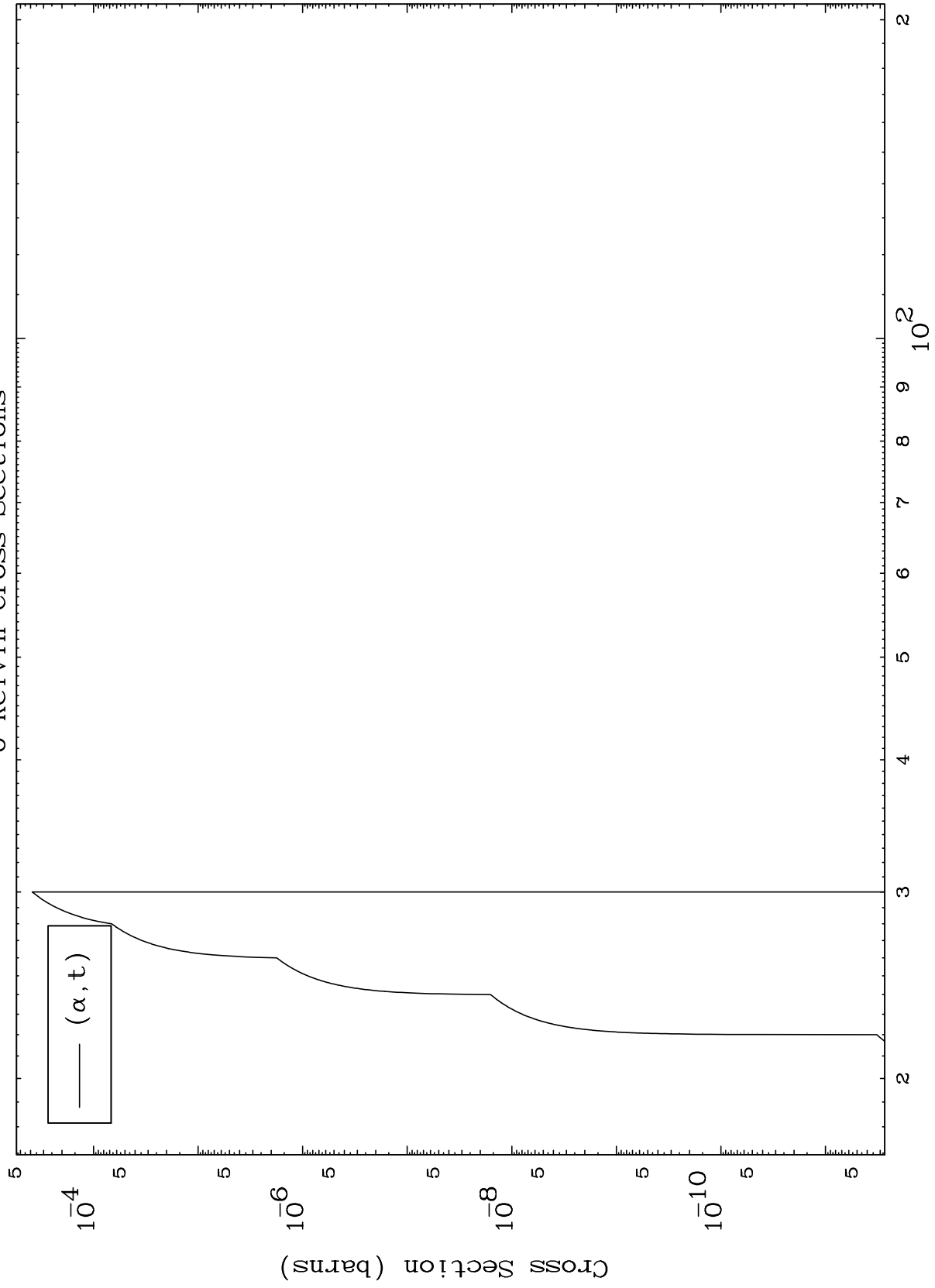
Incident Energy (MeV)

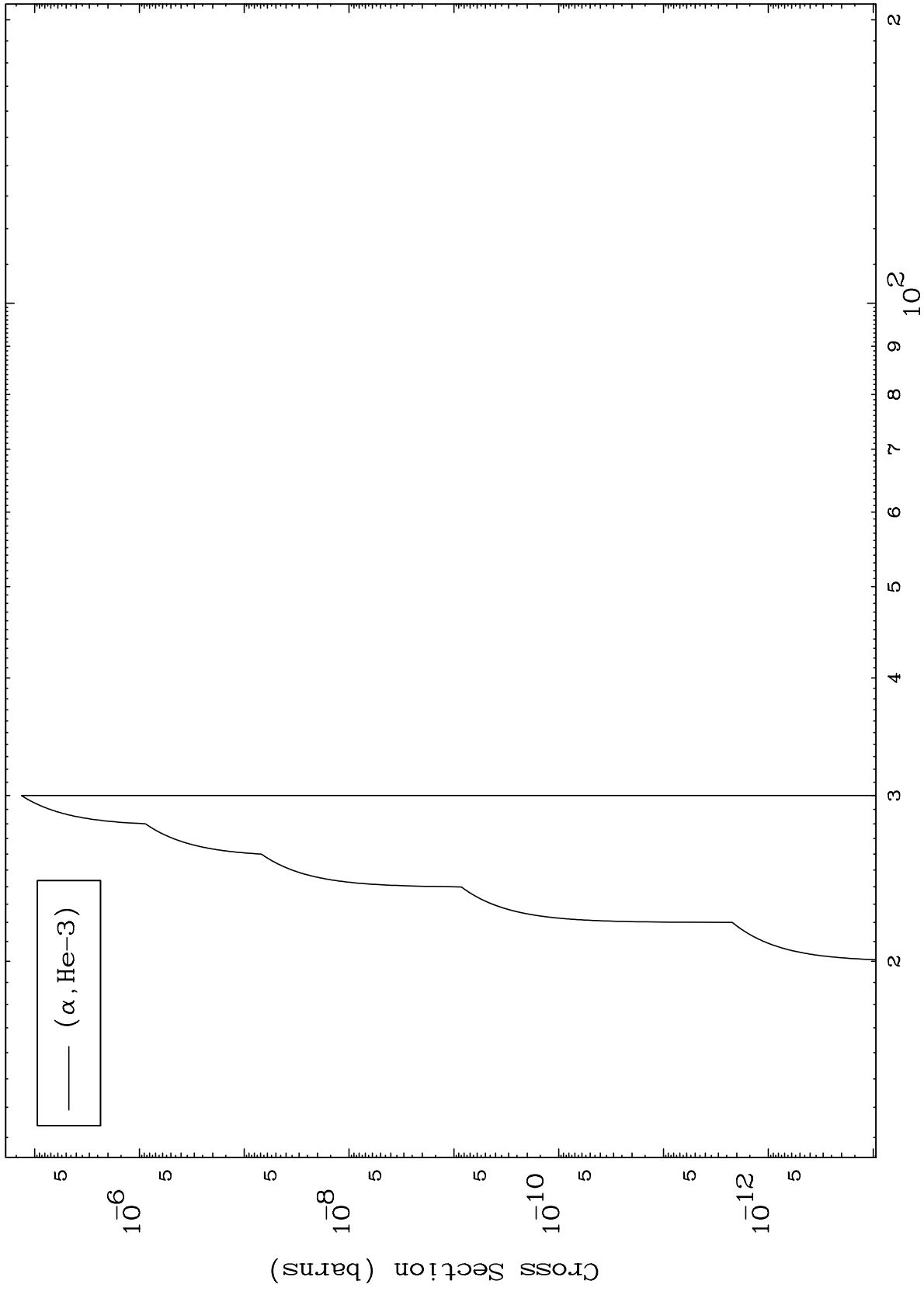
60-Nd-138

MAT 6013

(α, t) Levels
0 Kelvin Cross Sections

60-Nd-138

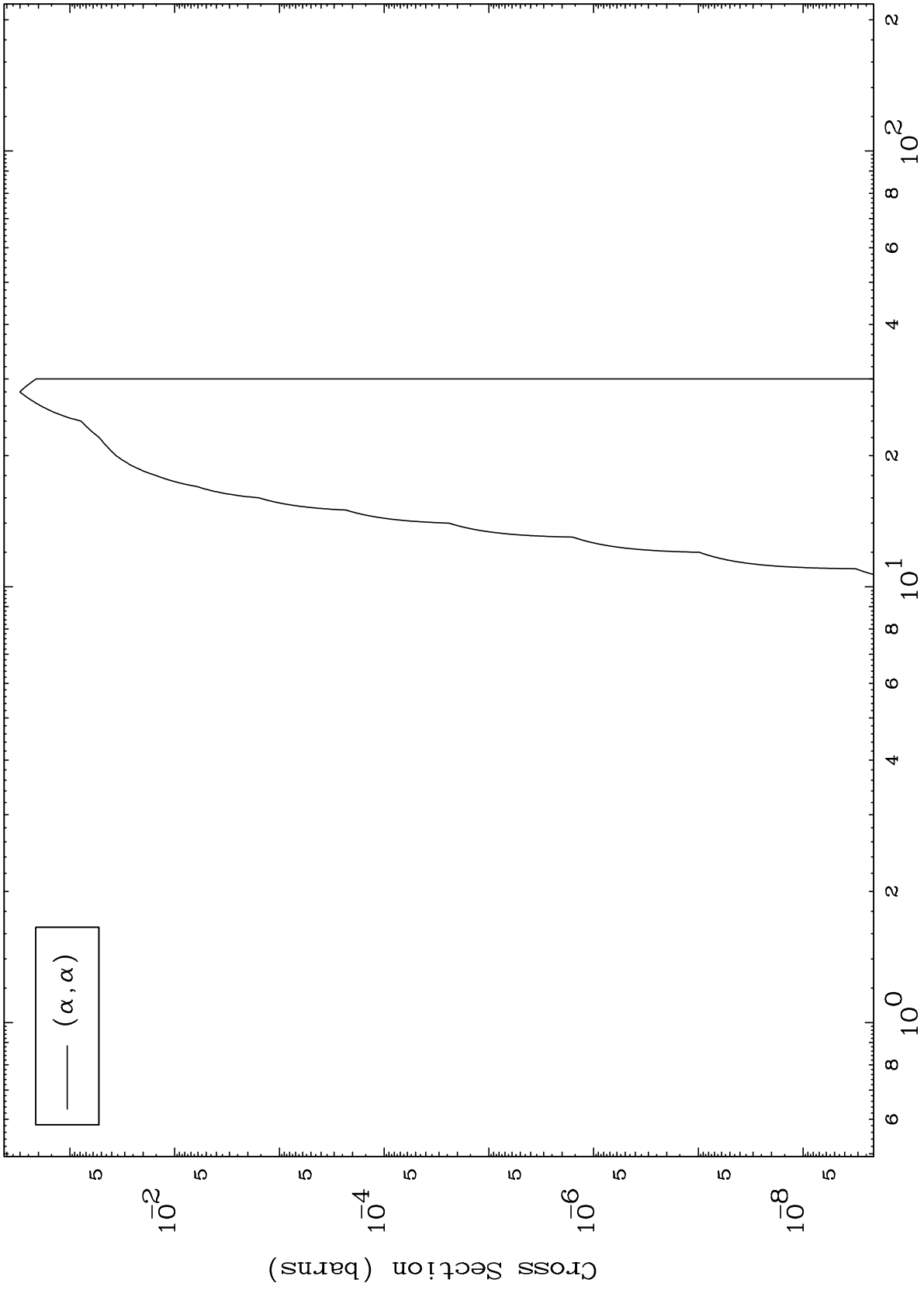




MAT 6013

(α, α) Levels
0 Kelvin Cross Sections

60-Nd-138



10

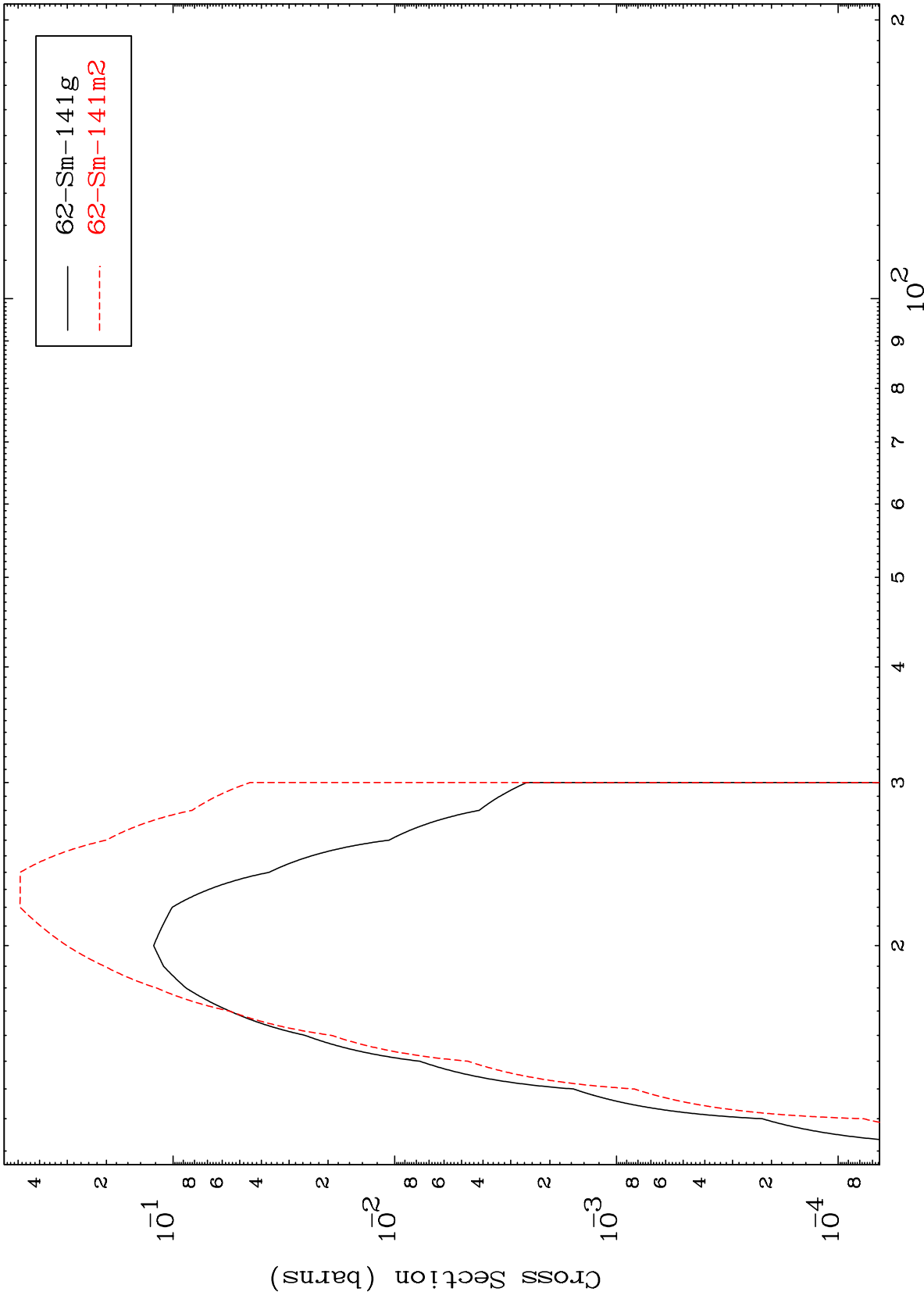
Incident Energy (MeV)

60-Nd-138

MAT 6013

60-Nd-138

α Inelastic
Radionuclide Production Cross Section



11

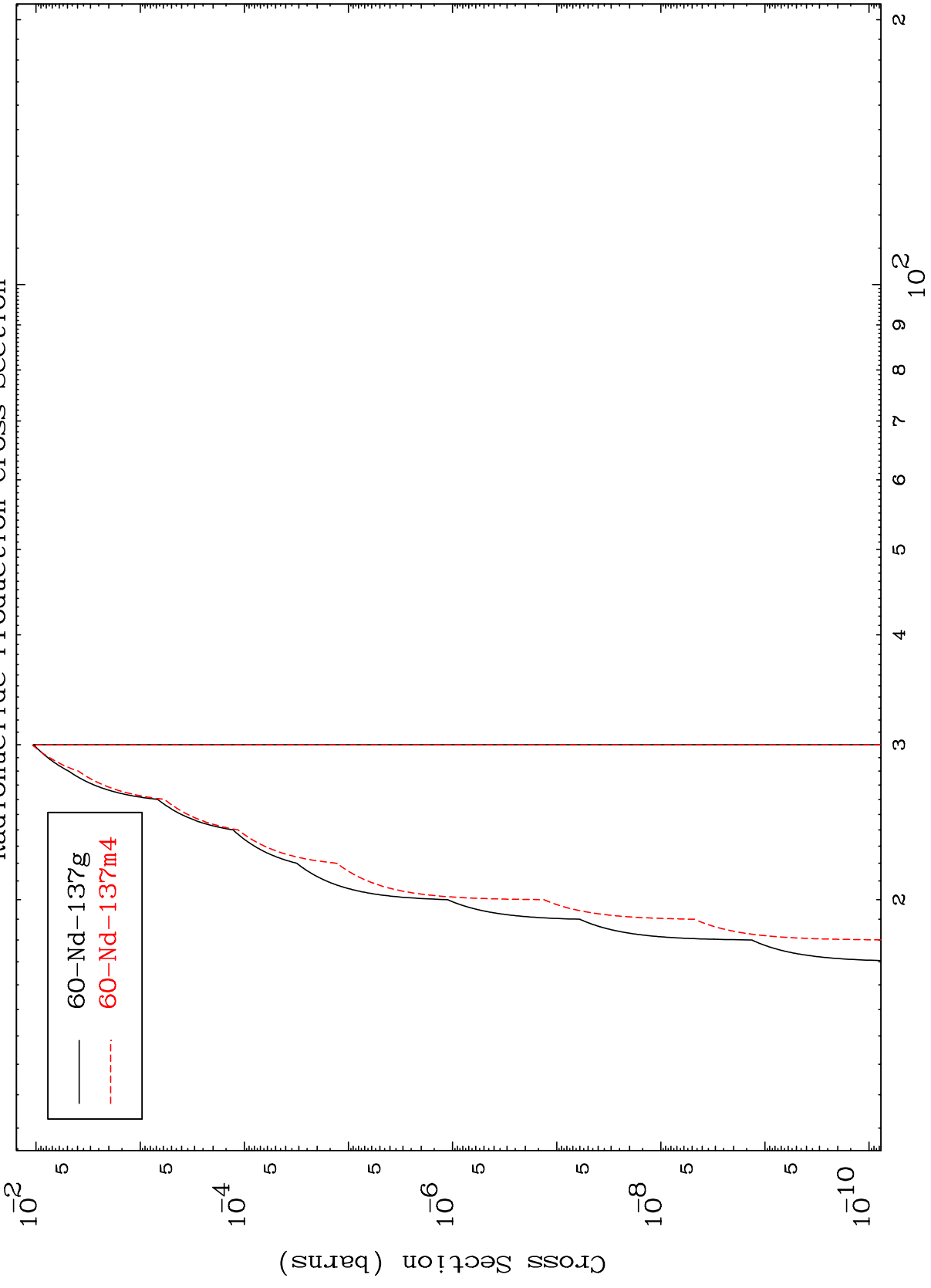
Incident Energy (MeV)

60-Nd-138

MAT 6013

60-Nd-138

(α, n') α
Radionuclide Production Cross Section



12

Incident Energy (MeV)

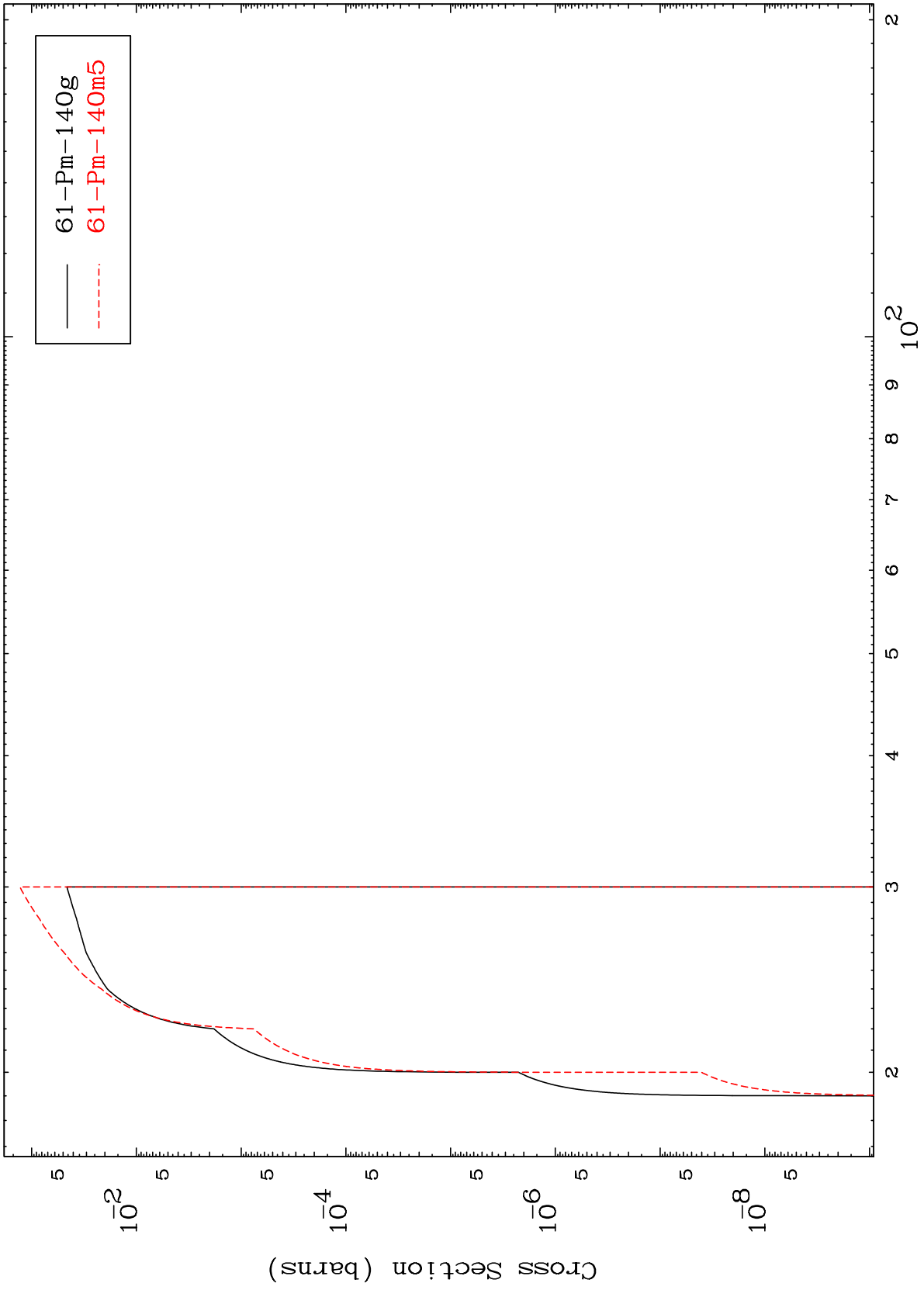
60-Nd-138

MAT 6013

(α, n') p

$^{60}\text{Nd}-138$

Radionuclide Production Cross Section



13

Incident Energy (MeV)

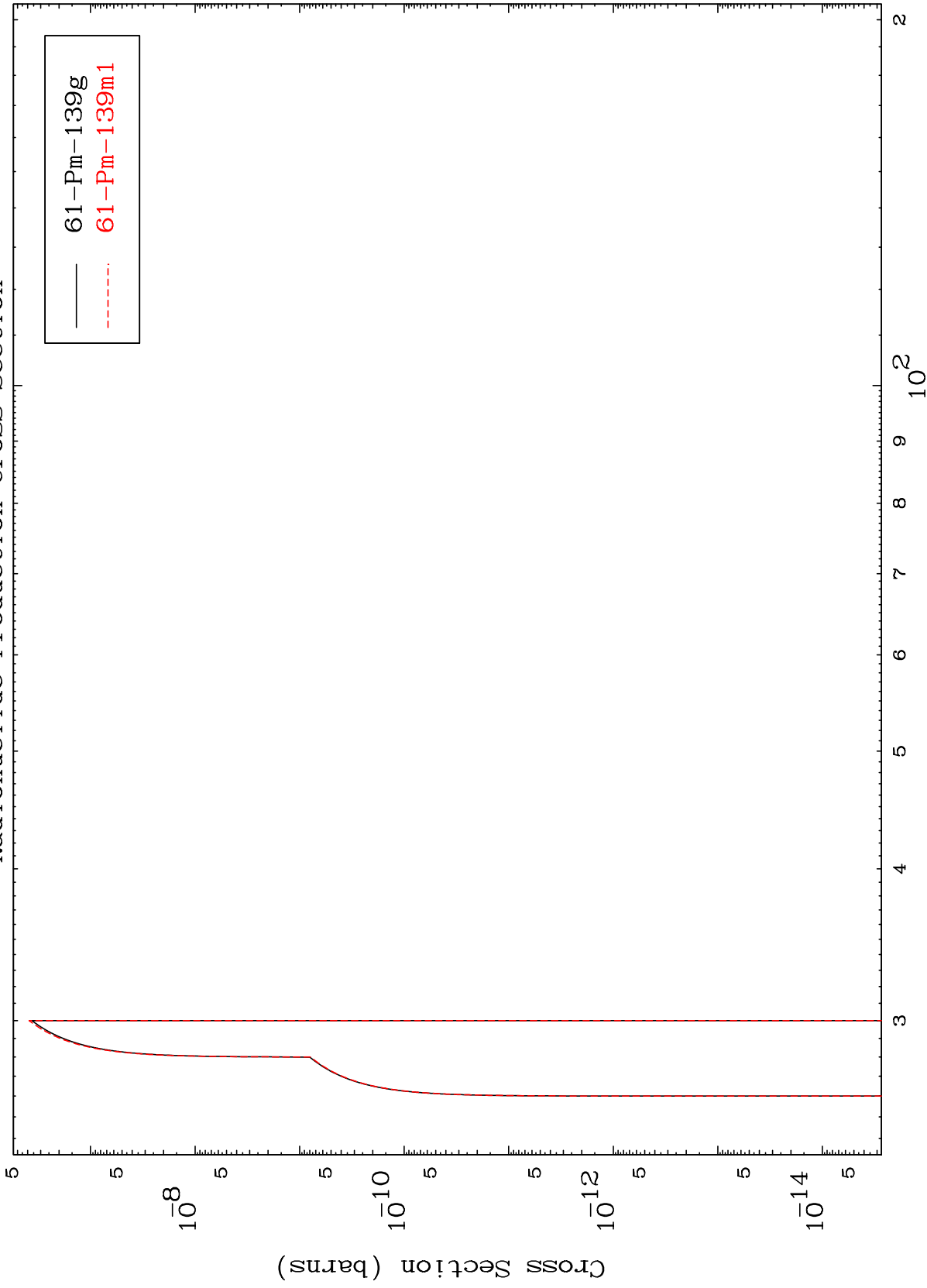
$^{60}\text{Nd}-138$

MAT 6013

(α, n') d

60-Nd-138

Radionuclide Production Cross Section



14

Incident Energy (MeV)

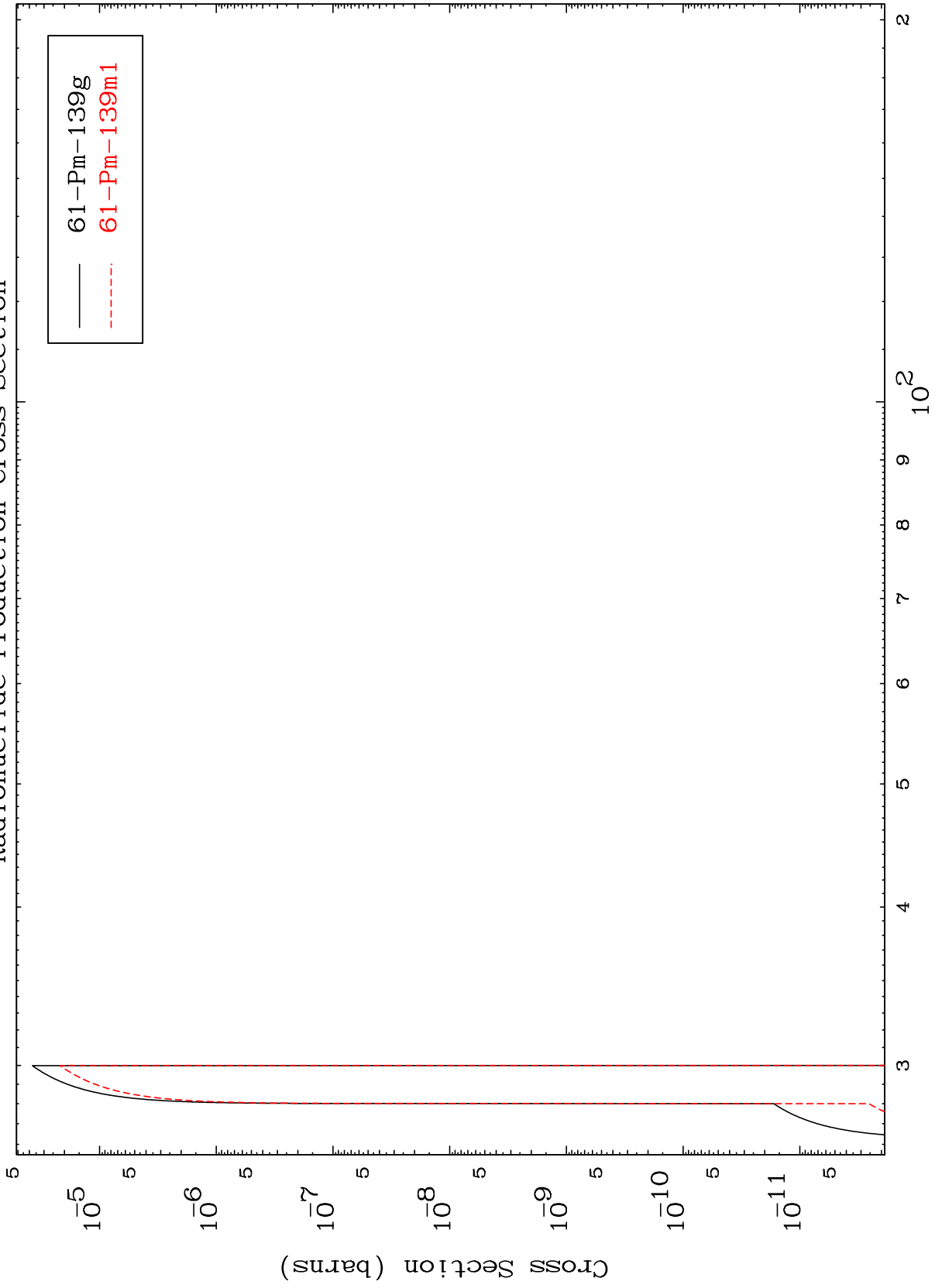
60-Nd-138

MAT 6013

($\alpha, 2n$) p

$^{60}\text{Nd}-138$

Radionuclide Production Cross Section



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

15

Incident Energy (MeV)

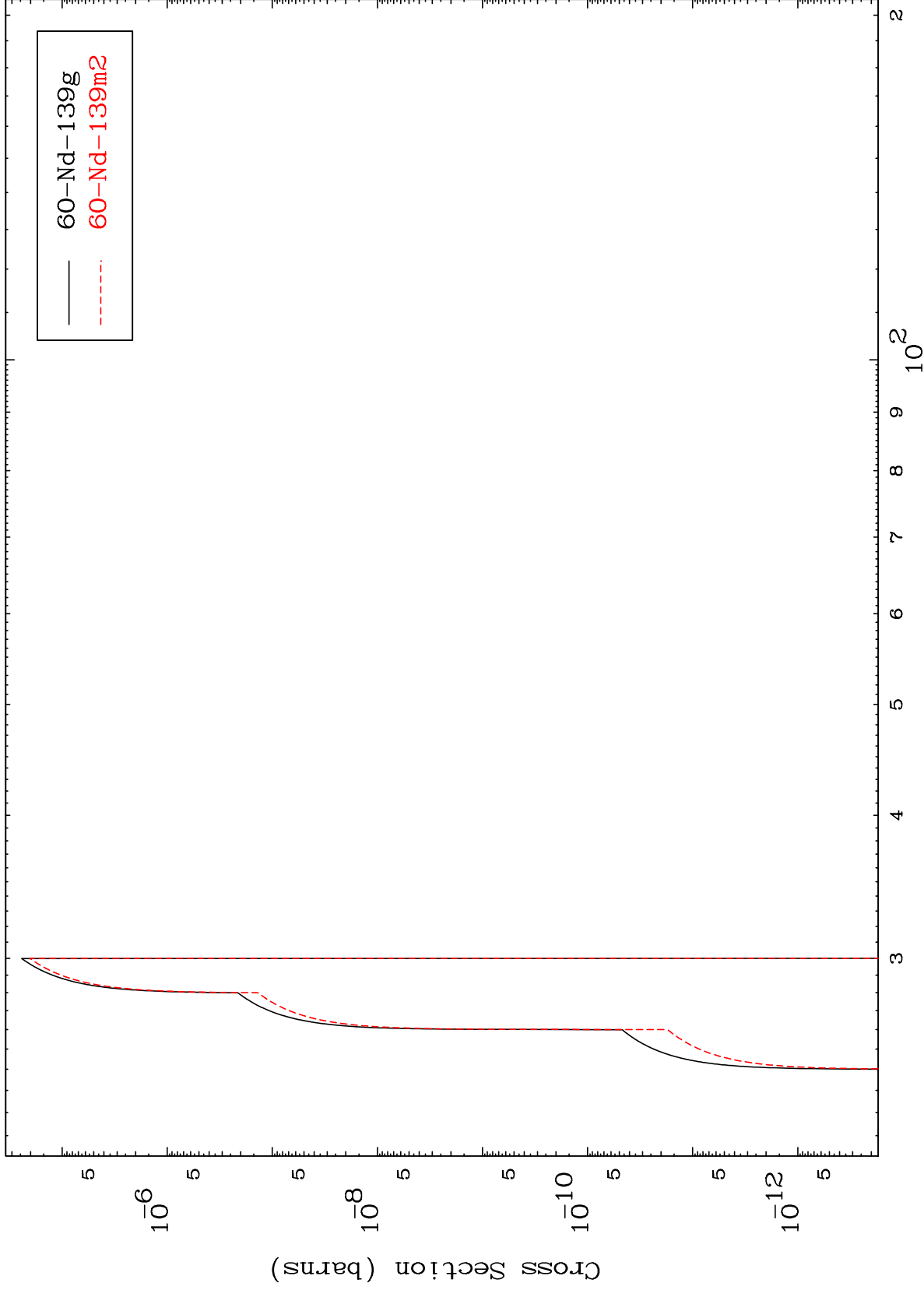
$^{60}\text{Nd}-138$

MAT 6013

$(\alpha, 2n)$ p

$^{60}\text{Nd}-138$

Radionuclide Production Cross Section



16

Incident Energy (MeV)

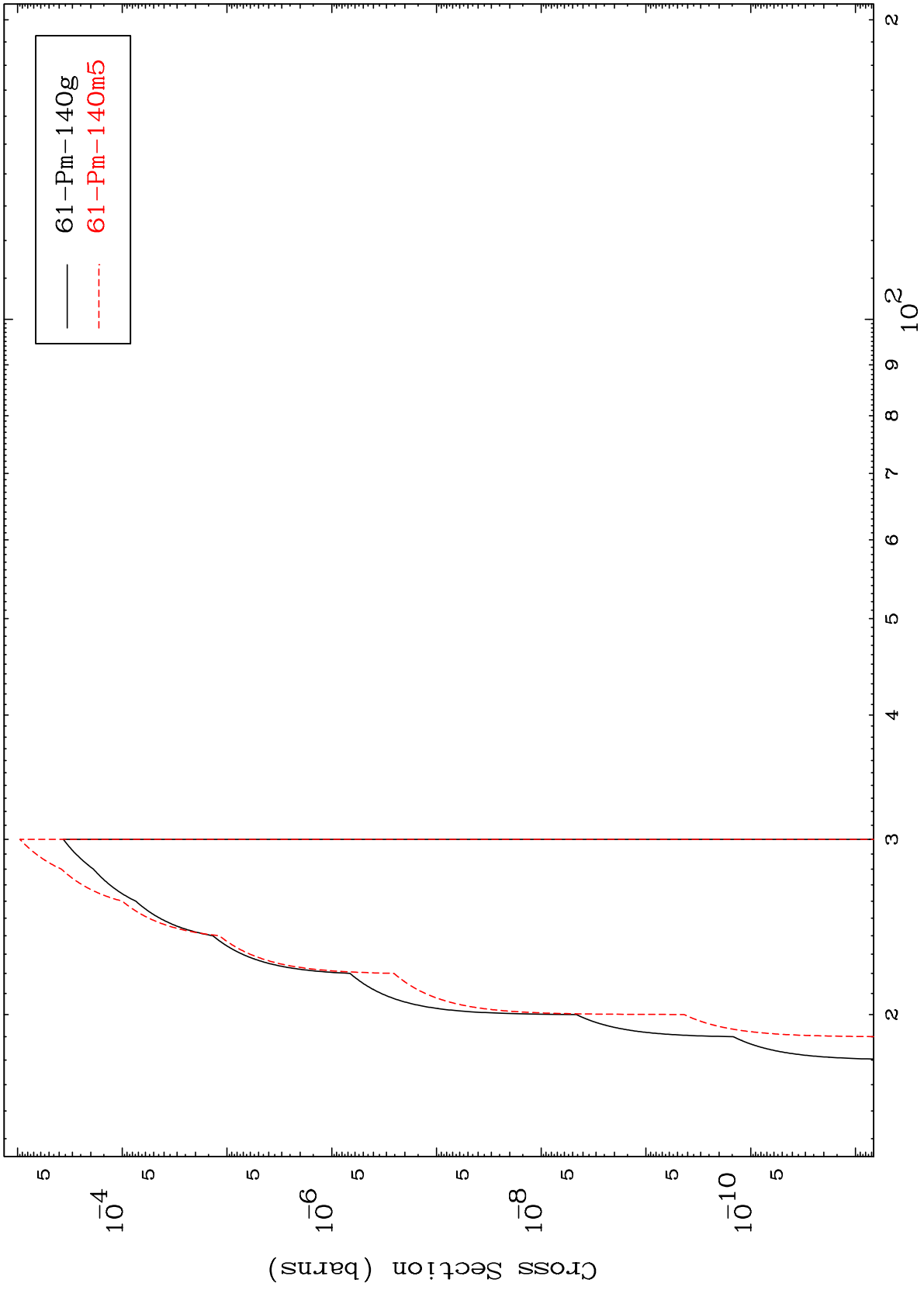
$^{60}\text{Nd}-138$

MAT 6013

(α, d)

$^{60}\text{Nd}-^{138}$

Radionuclide Production Cross Section



17

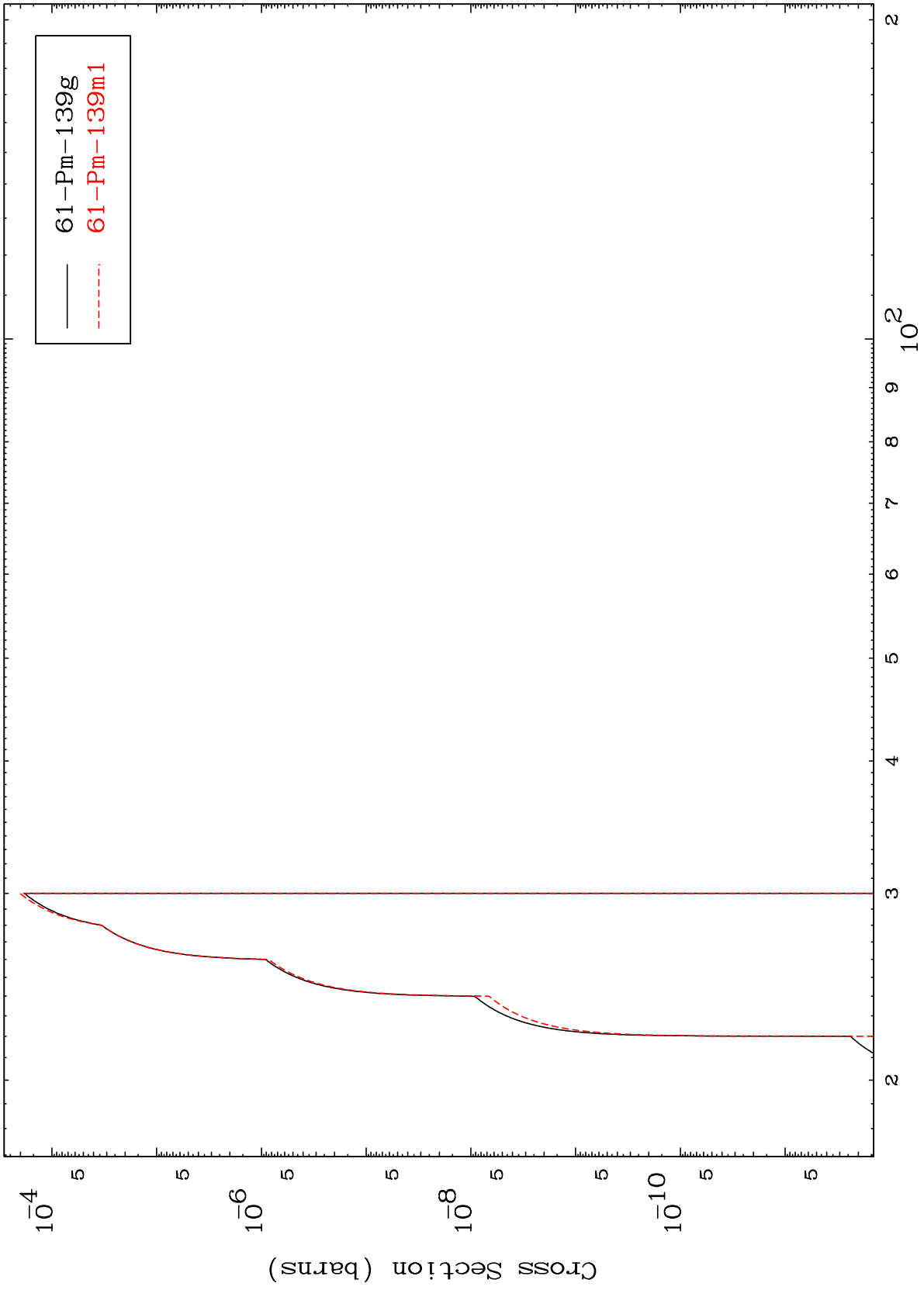
Incident Energy (MeV)

$^{60}\text{Nd}-^{138}$

MAT 6013

60-Nd-138

(α, t)
Radionuclide Production Cross Section



18

Incident Energy (MeV)

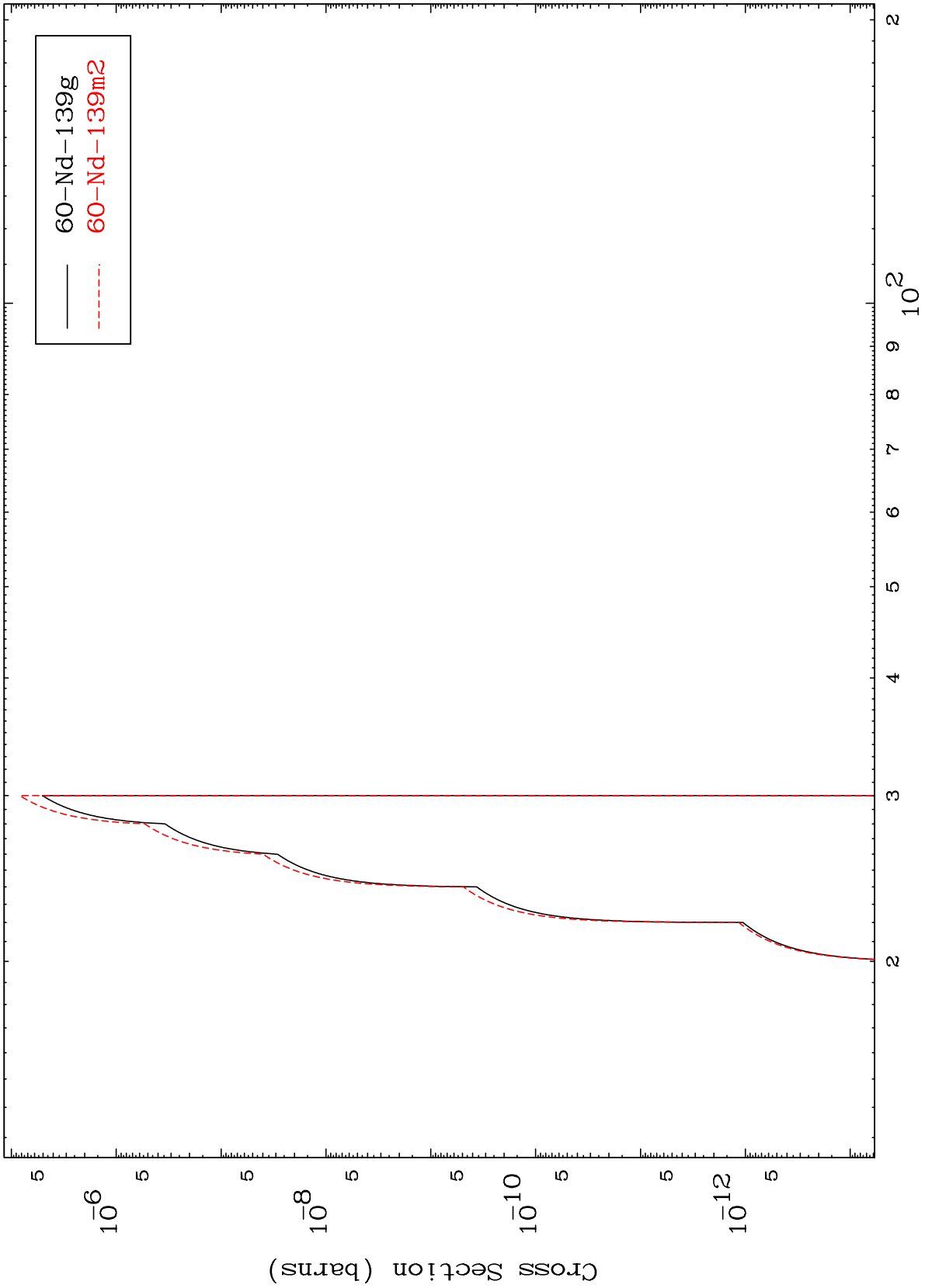
60-Nd-138

MAT 6013

($\alpha, \text{He-3}$)

$^{60}\text{Nd-138}$

Radionuclide Production Cross Section



19

Incident Energy (MeV)

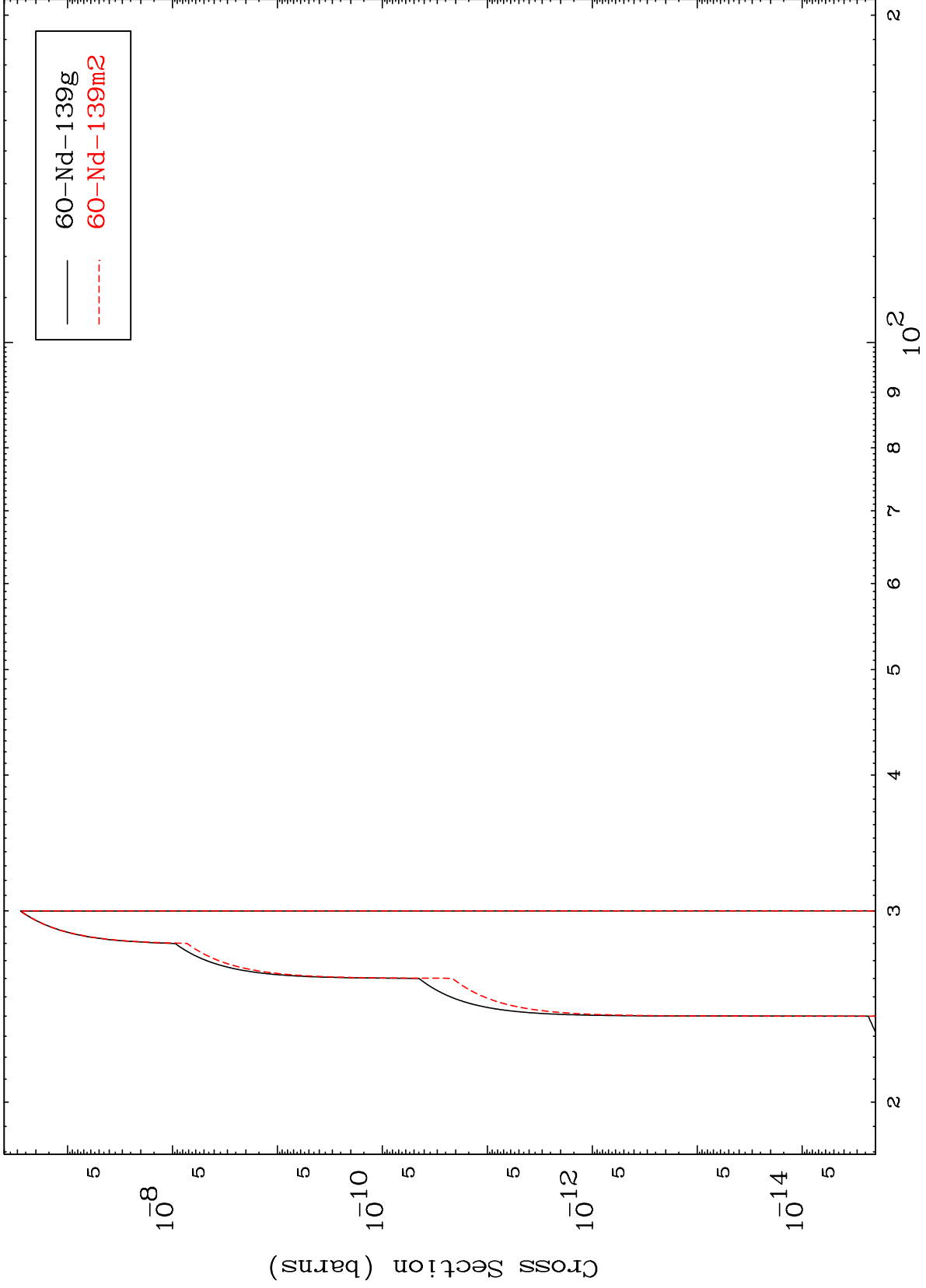
$^{60}\text{Nd-138}$

MAT 6013

(α, p) d

$^{60}\text{Nd}-138$

Radionuclide Production Cross Section



20

Incident Energy (MeV)

$^{60}\text{Nd}-138$