

Program EVALPLOT  
(Version 2018-1)

by

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(Present Contact Information)

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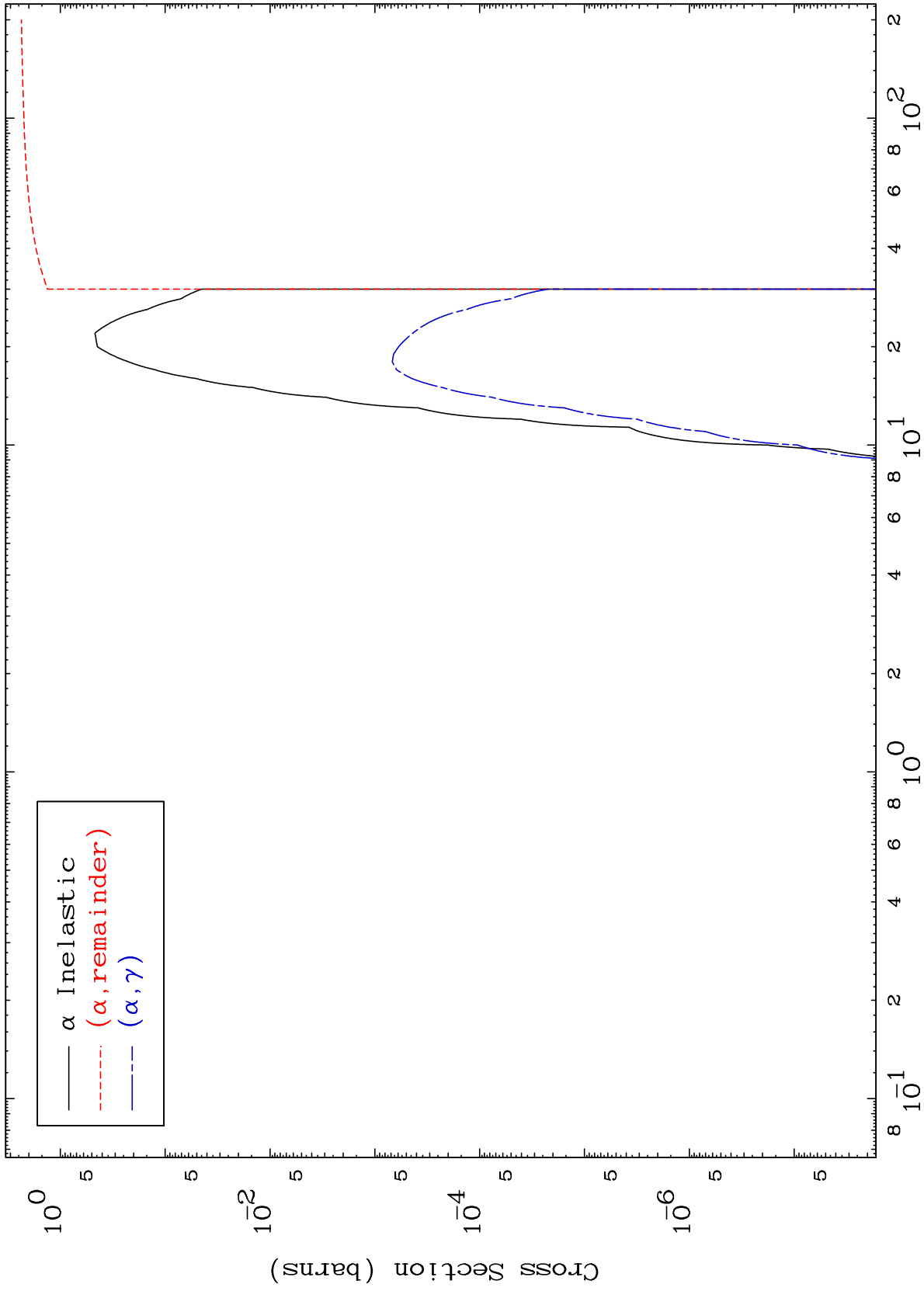
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6016

0 Kelvin  $\alpha$  Major  
Cross Sections

60-Nd-139



1

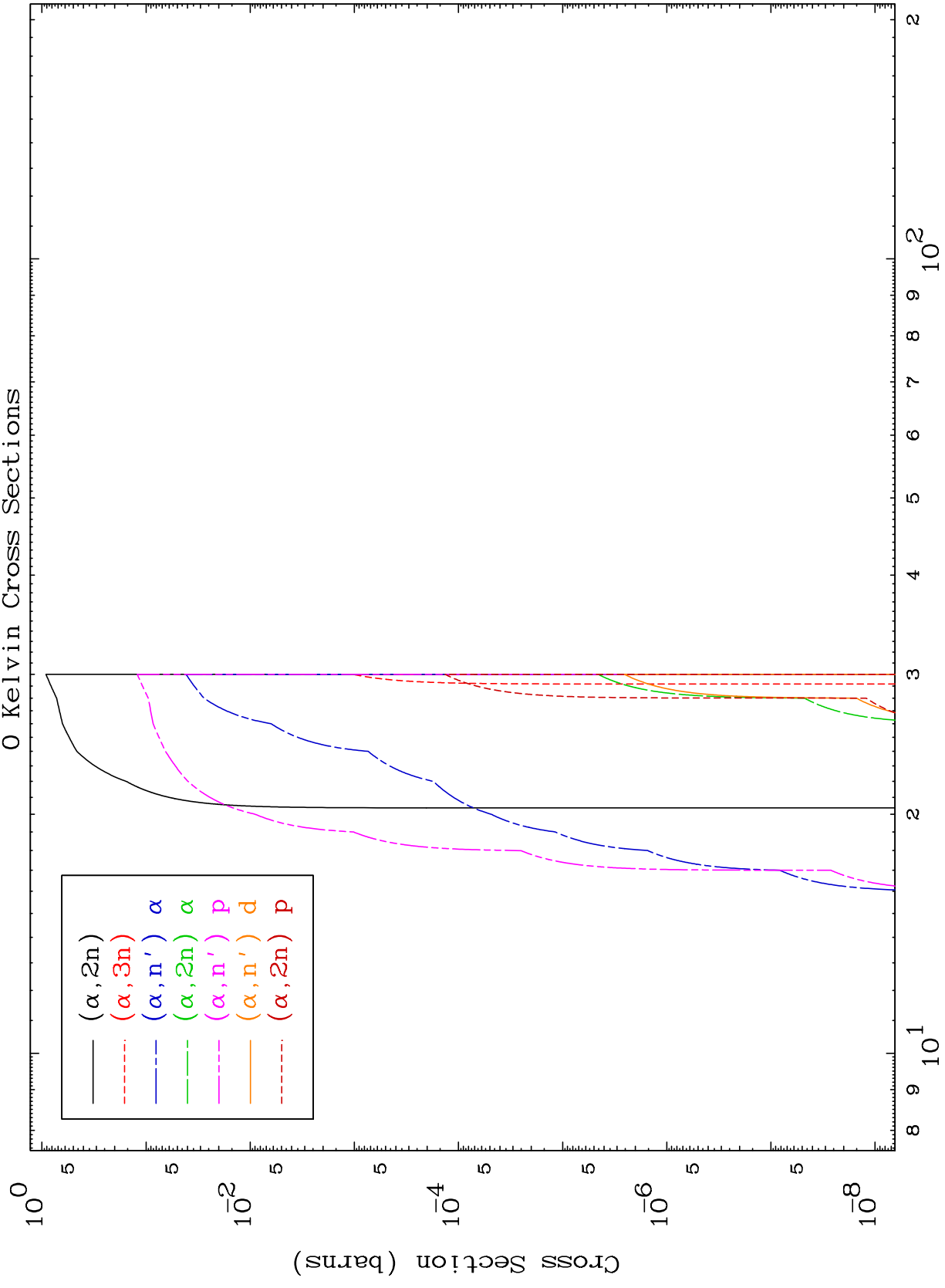
Incident Energy (MeV)

60-Nd-139

MAT 6016

$\alpha$  Neutron Production  
0 Kelvin Cross Sections

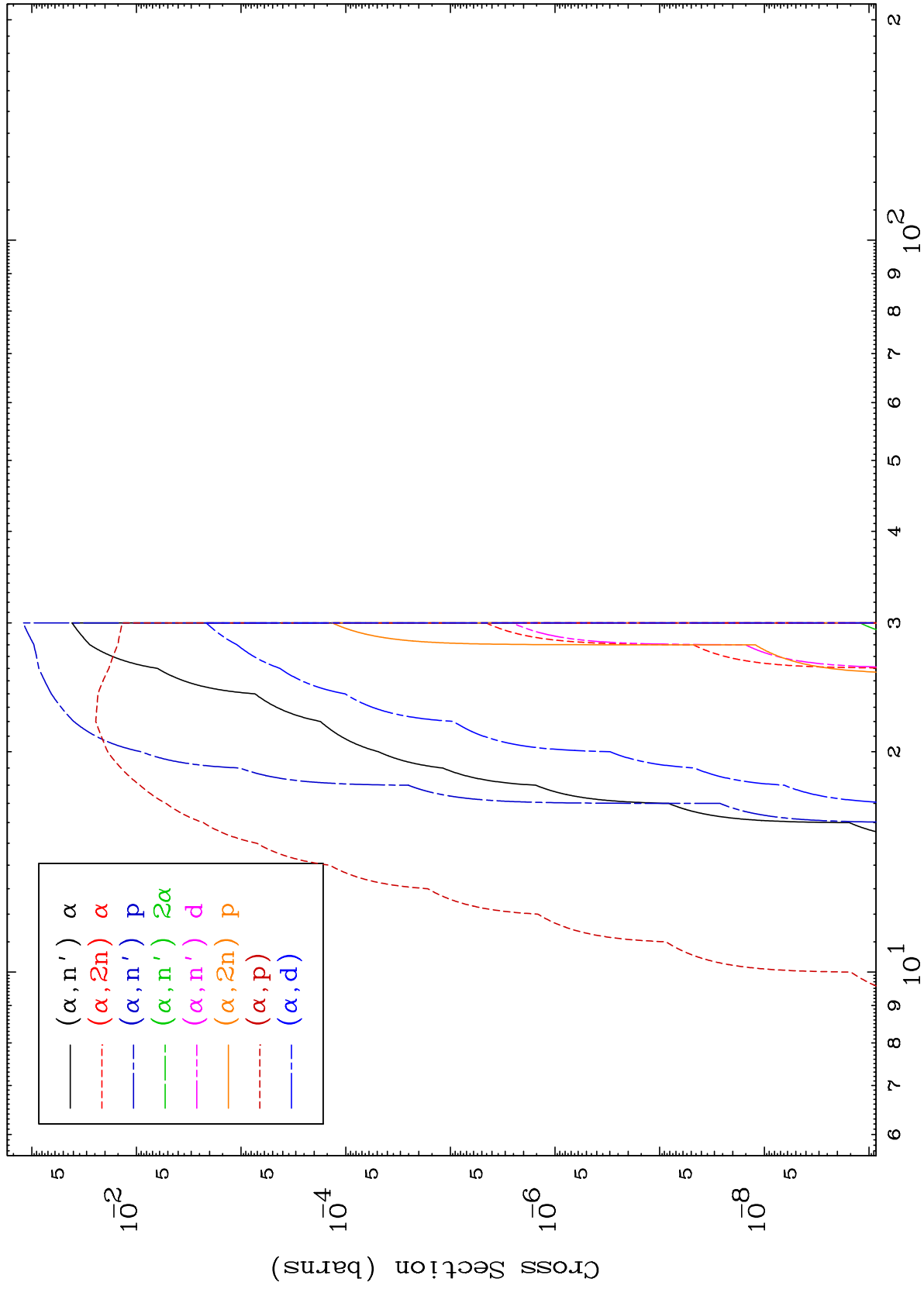
60-Nd-139



2

Incident Energy (MeV)

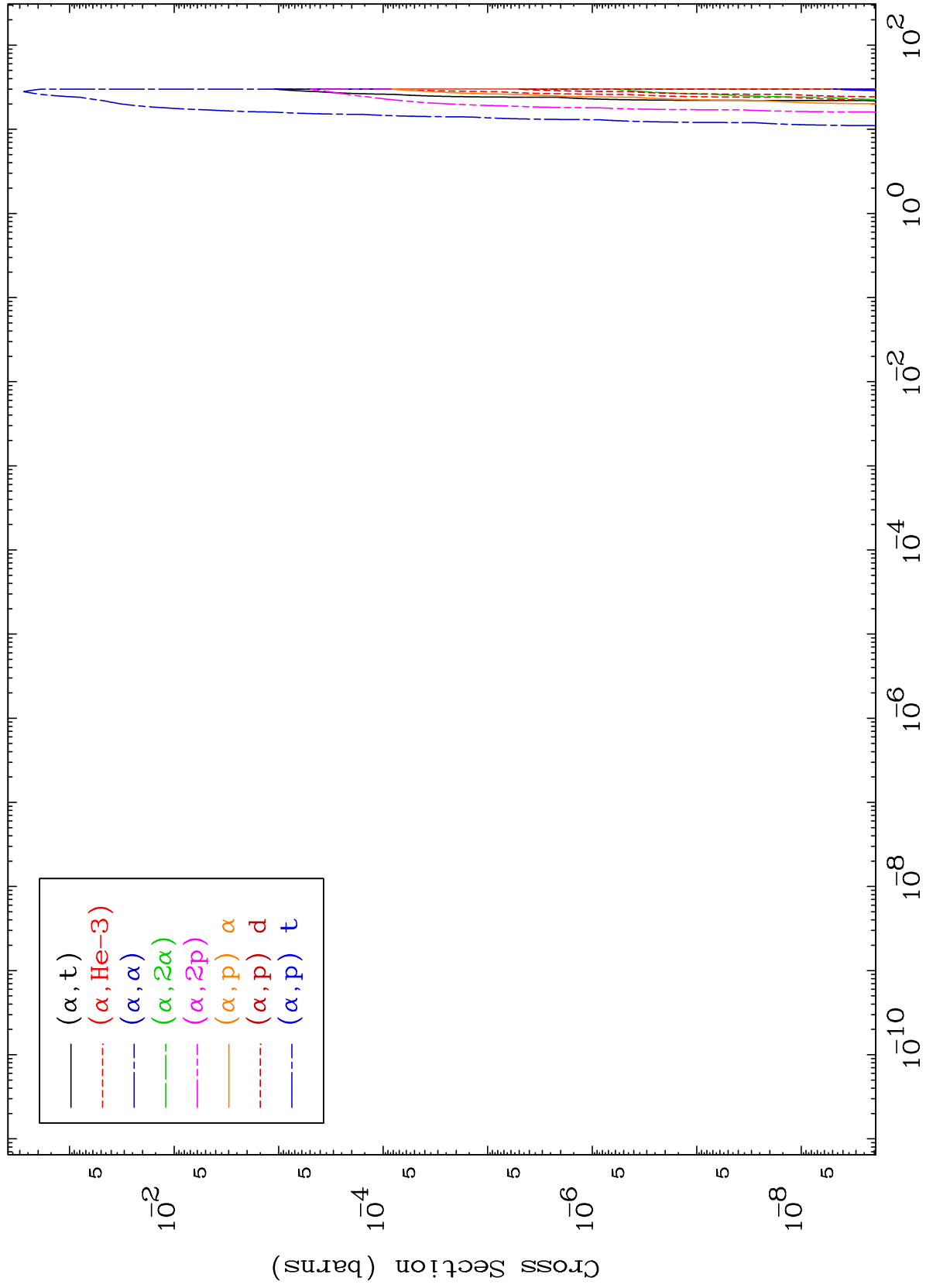
60-Nd-139



MAT 6016

$\alpha$  Charged Particle  
0 Kelvin Cross Sections

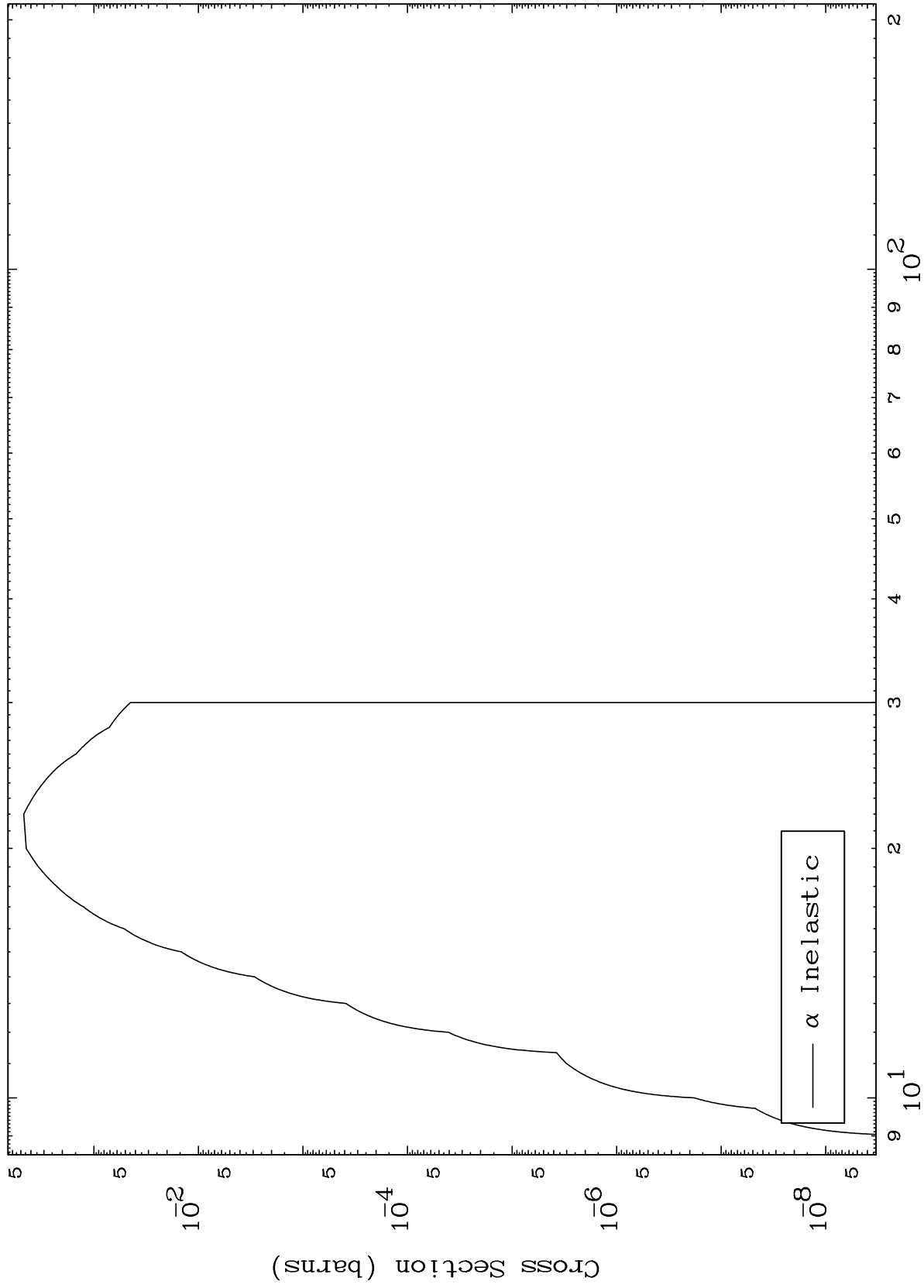
60-Nd-139



MAT 6016

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

60-Nd-139



5

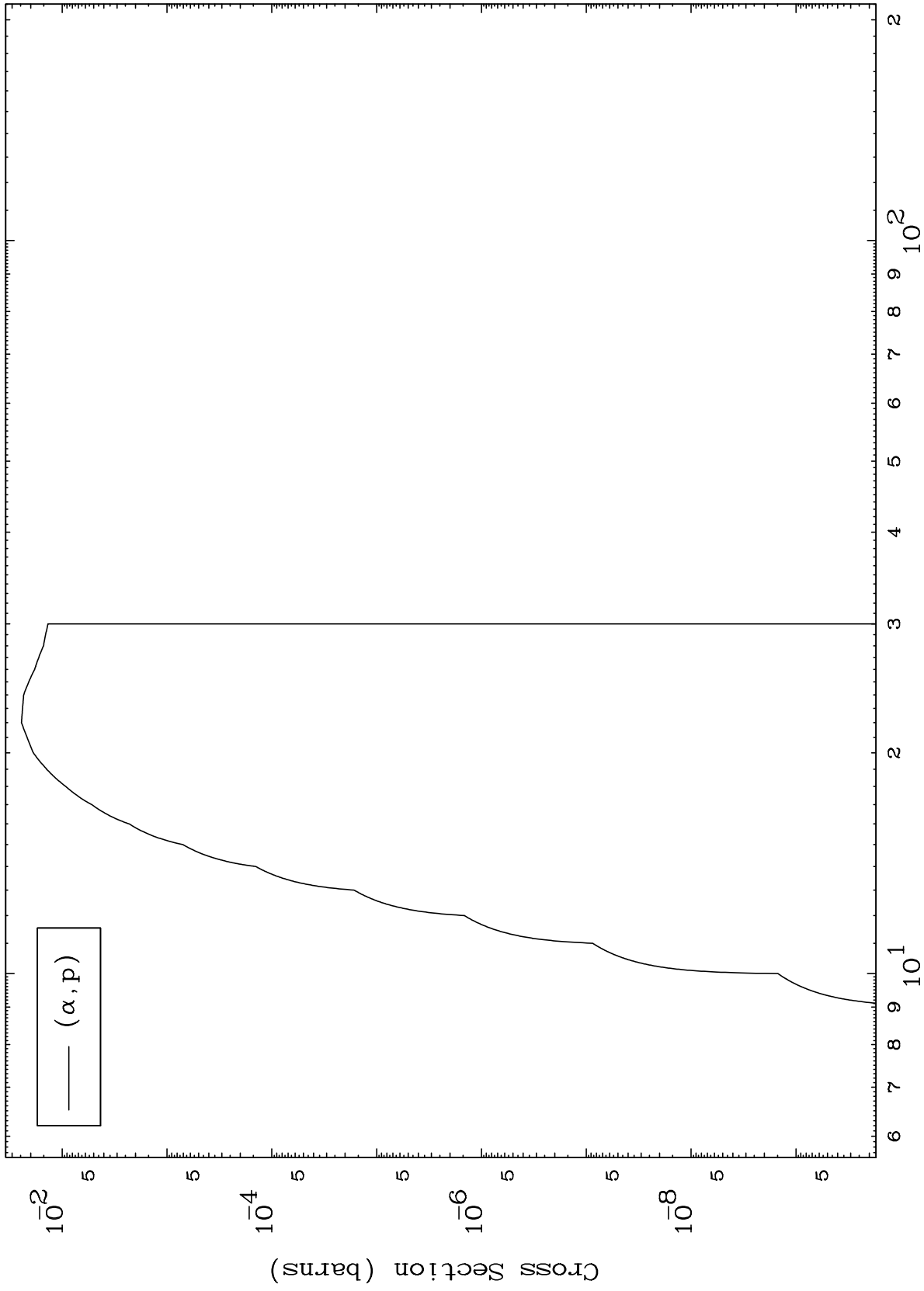
Incident Energy (MeV)

60-Nd-139

MAT 6016

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

60-Nd-139



6

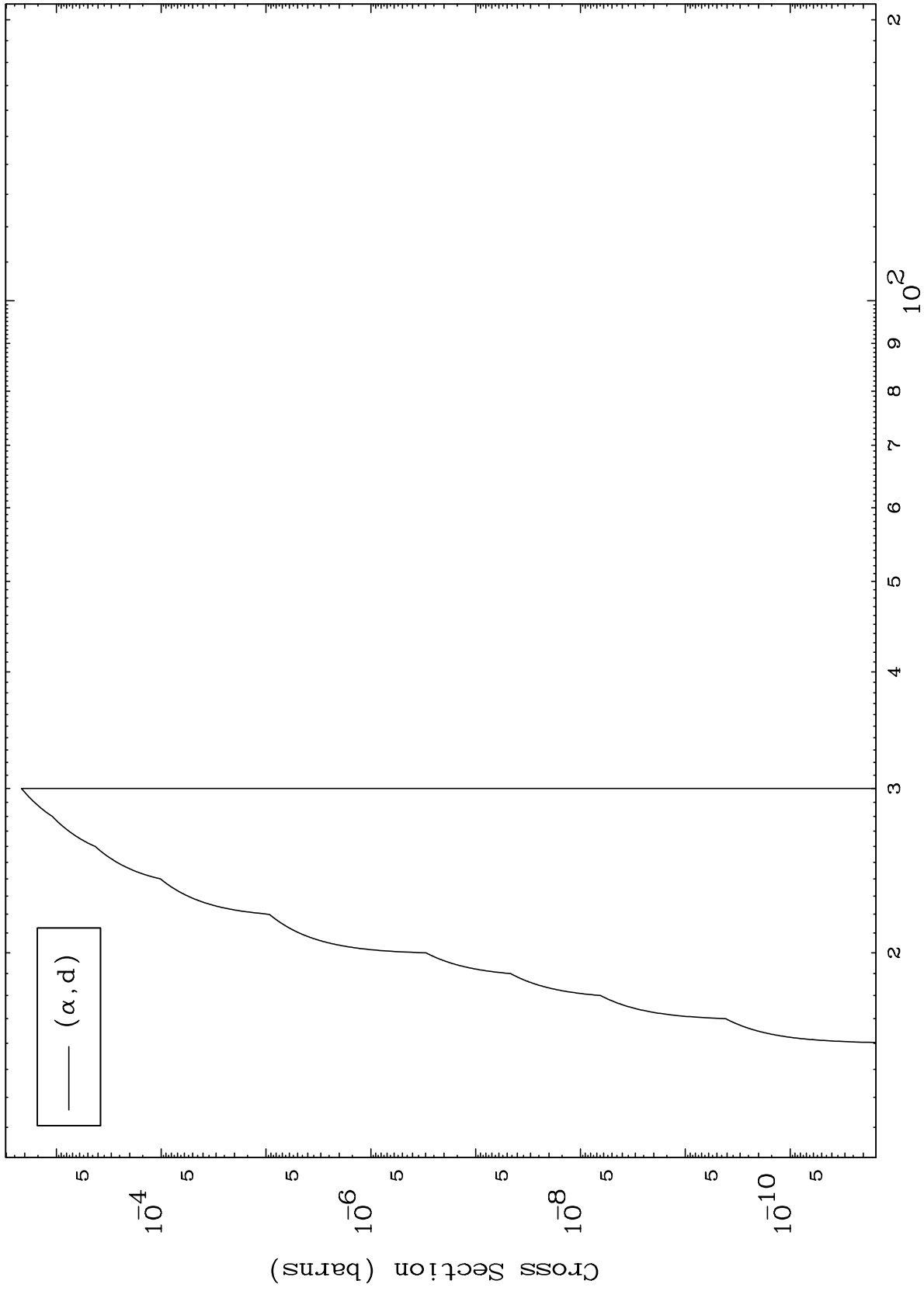
Incident Energy (MeV)

60-Nd-139

MAT 6016

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

60-Nd-139



7

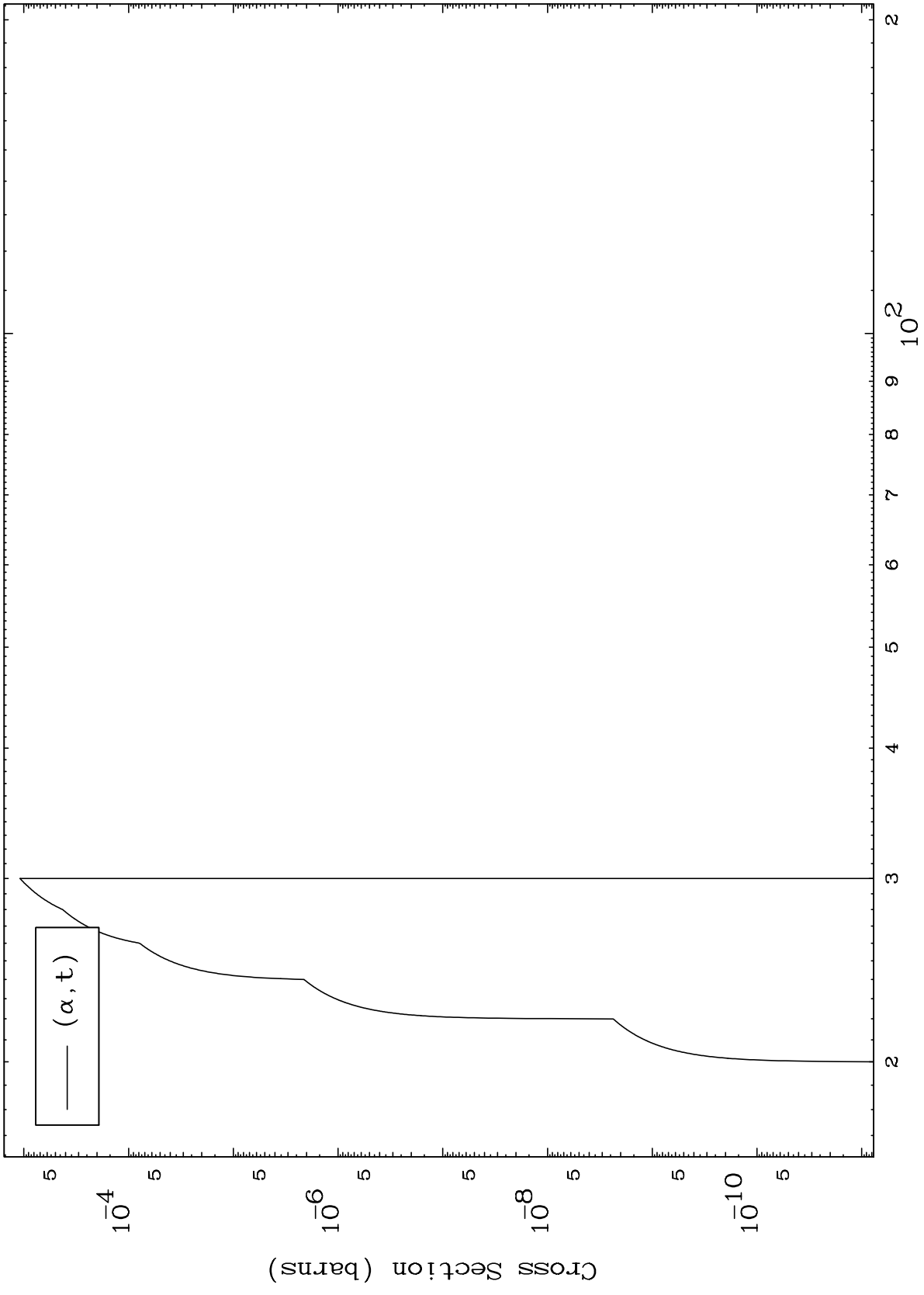
Incident Energy (MeV)

60-Nd-139

MAT 6016

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

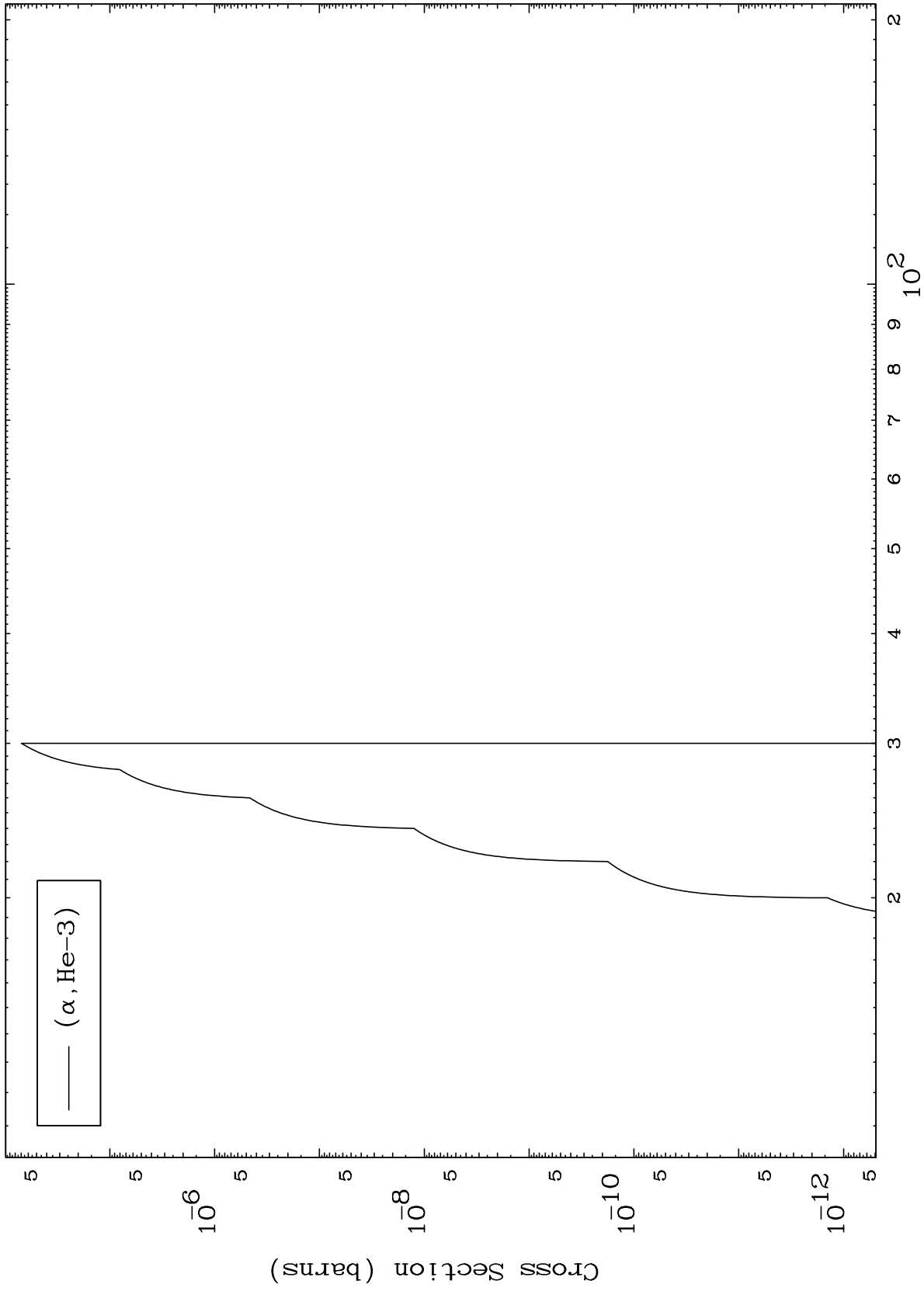
60-Nd-139



8

Incident Energy (MeV)

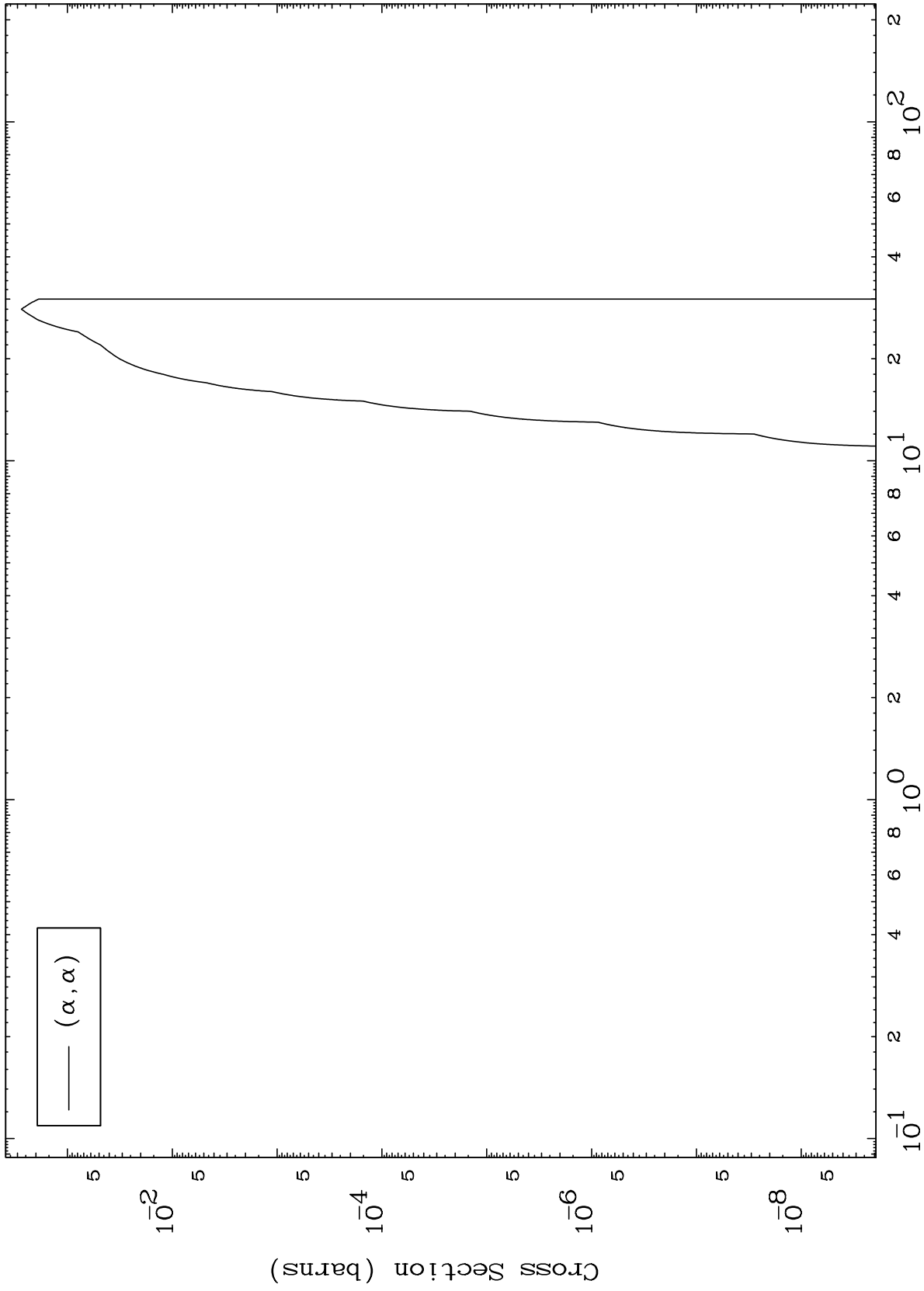
60-Nd-139



MAT 6016

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

60-Nd-139



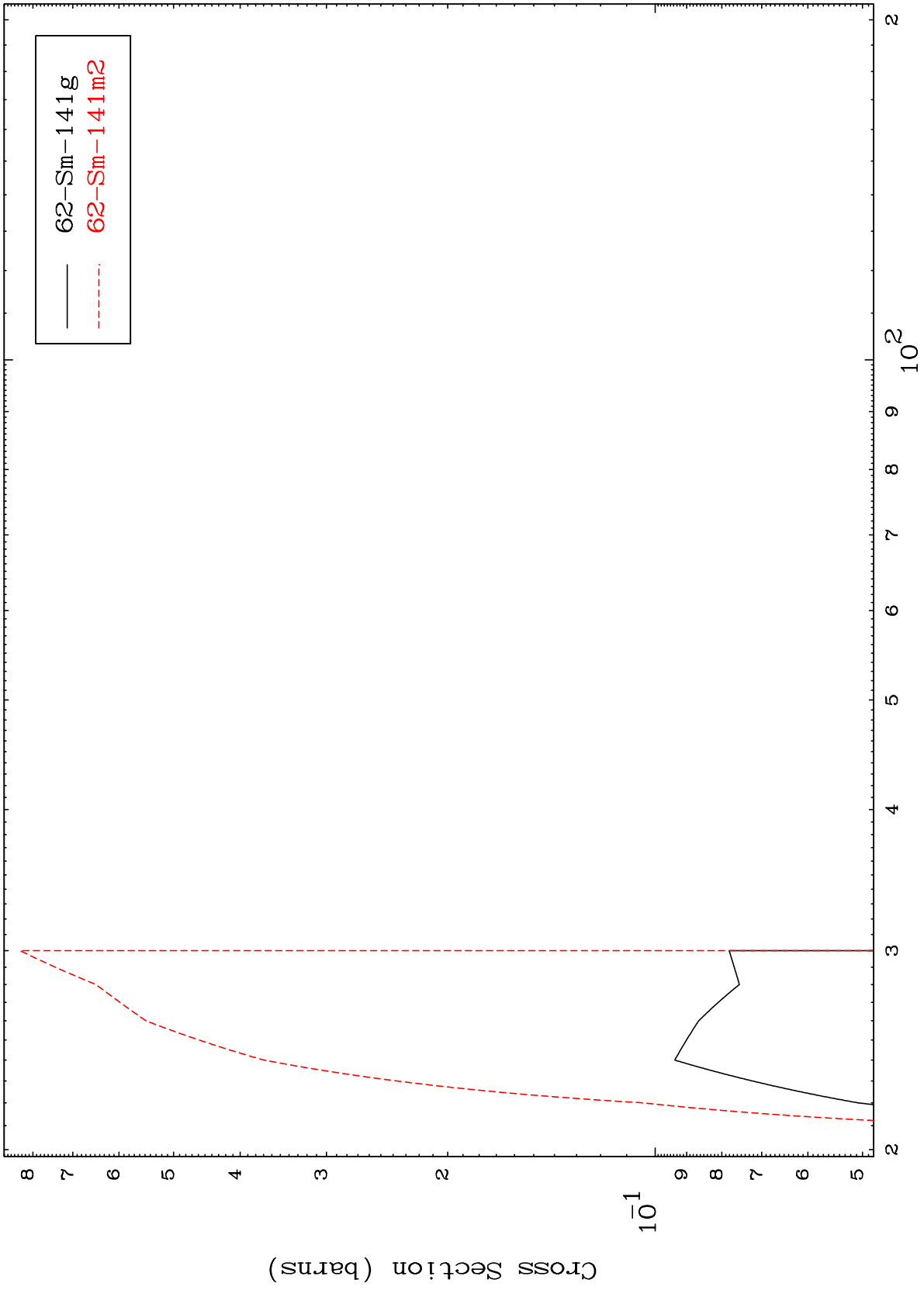
Incident Energy (MeV)

60-Nd-139

MAT 6016

60-Nd-139

Radionuclide Production Cross Section  
( $\alpha, 2n$ )



11

Incident Energy (MeV)

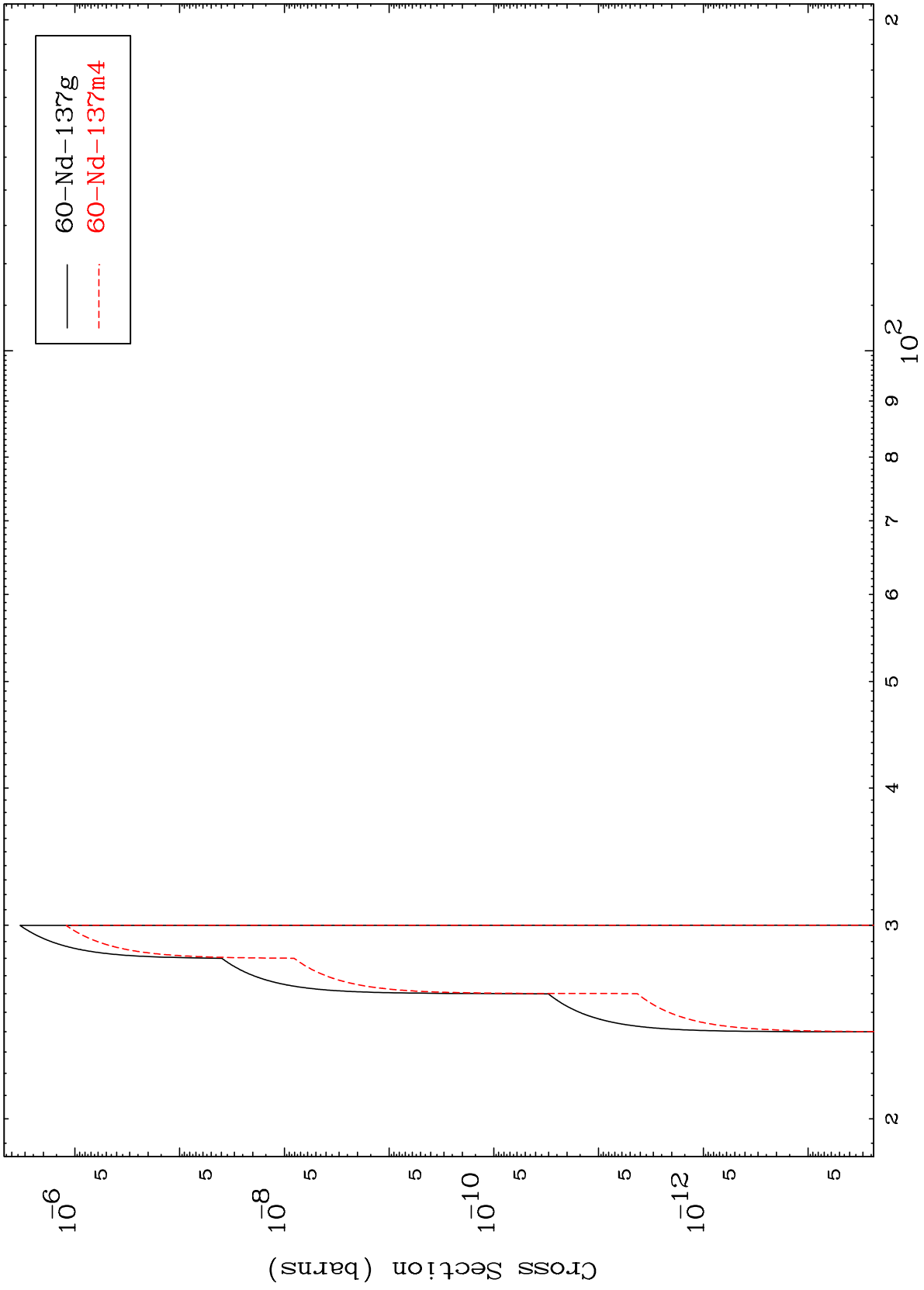
60-Nd-139

MAT 6016

$(\alpha, 2n) \alpha$

$^{60}\text{Nd}-139$

Radionuclide Production Cross Section



12

Incident Energy (MeV)

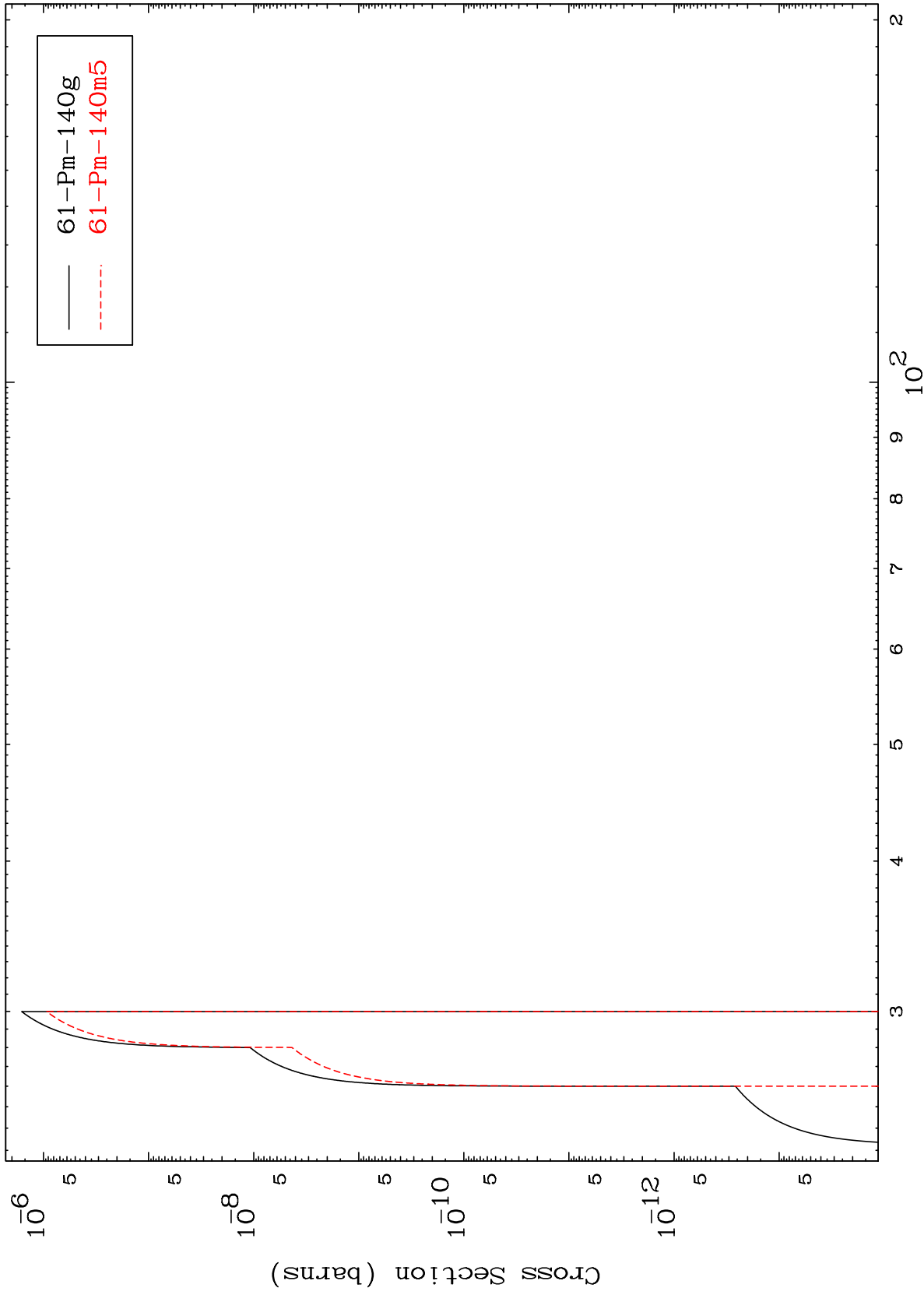
$^{60}\text{Nd}-139$

MAT 6016

( $\alpha, n'$ ) d

$^{60}\text{Nd}-^{139}$

Radionuclide Production Cross Section



13

Incident Energy (MeV)

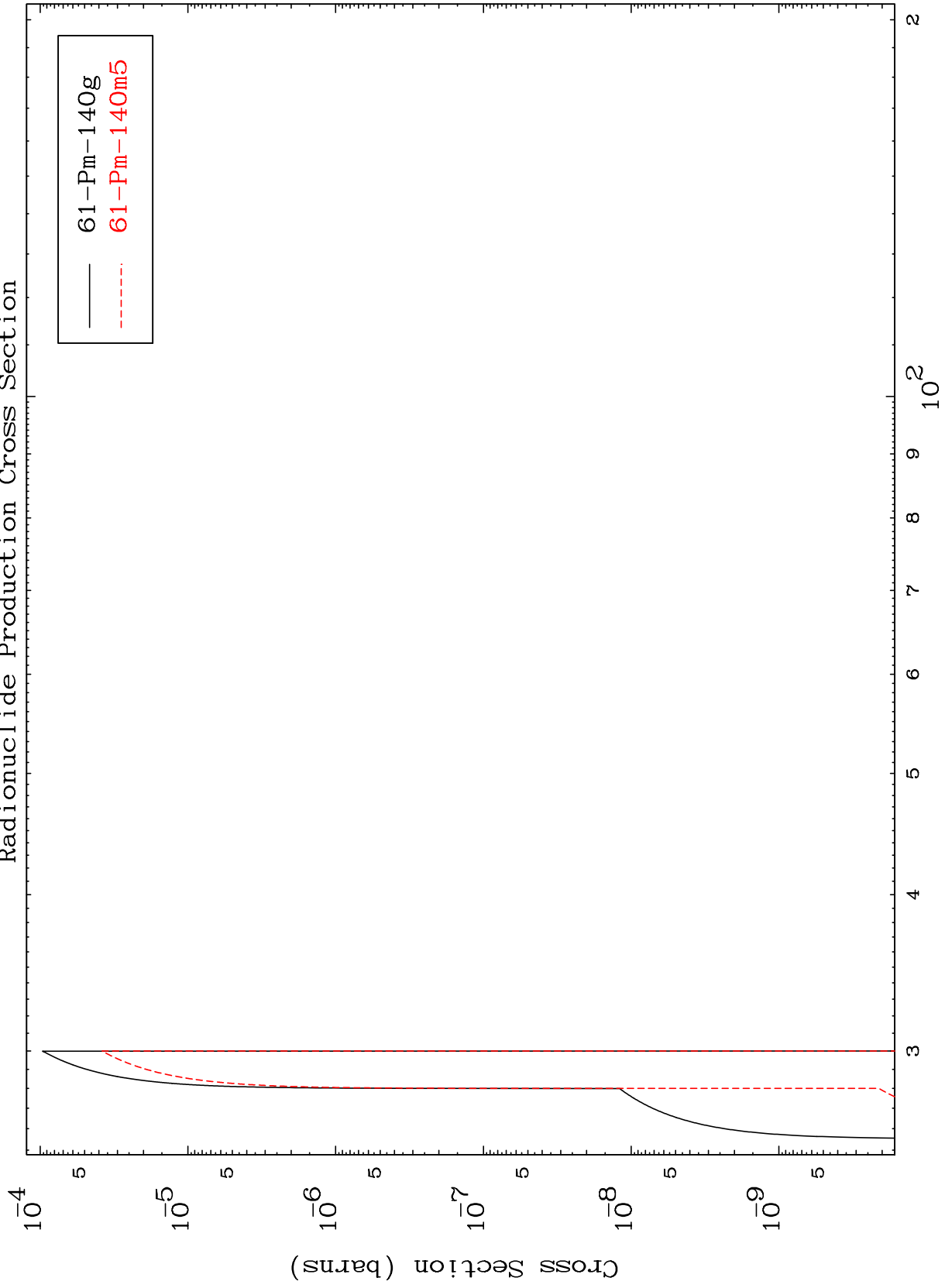
$^{60}\text{Nd}-^{139}$

MAT 6016

$(\alpha, 2n)$  p

$^{60}\text{Nd}-^{139}$

Radionuclide Production Cross Section



14

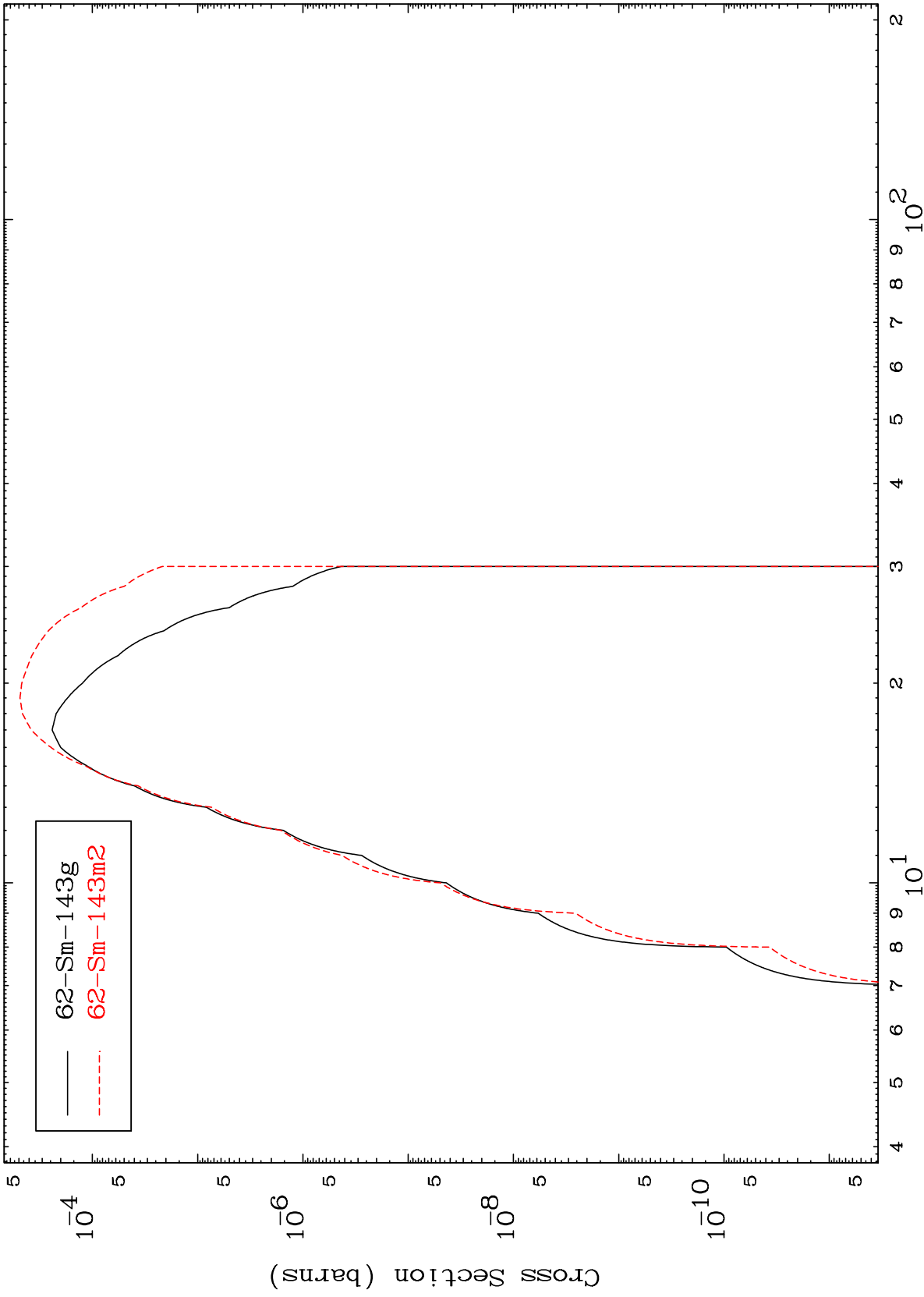
Incident Energy (MeV)

$^{60}\text{Nd}-^{139}$

MAT 6016

60-Nd-139

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



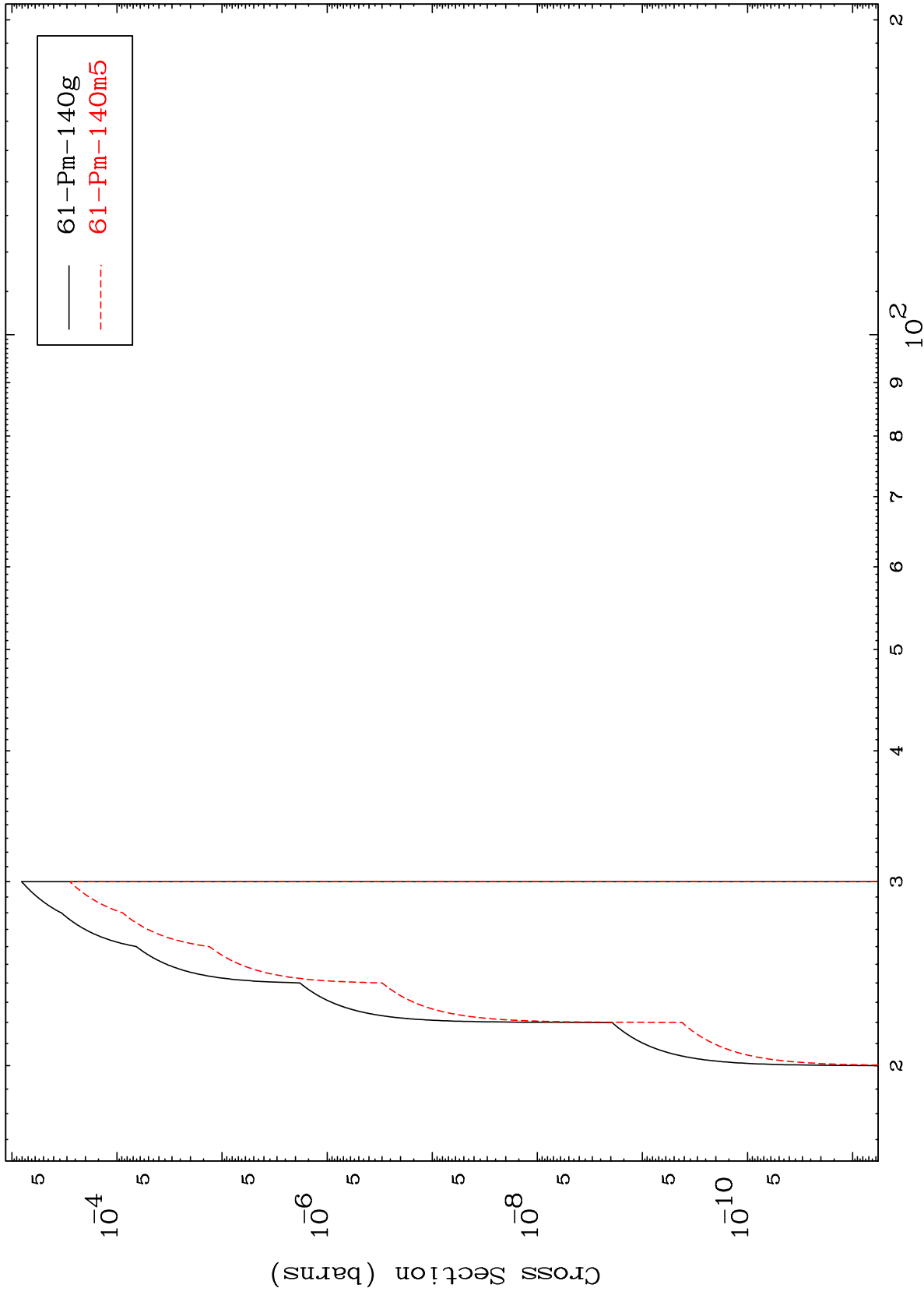
62-Sm-143g  
62-Sm-143m2

MAT 6016

( $\alpha, t$ )

$^{60}\text{Nd}-^{139}$

Radionuclide Production Cross Section



16

Incident Energy (MeV)

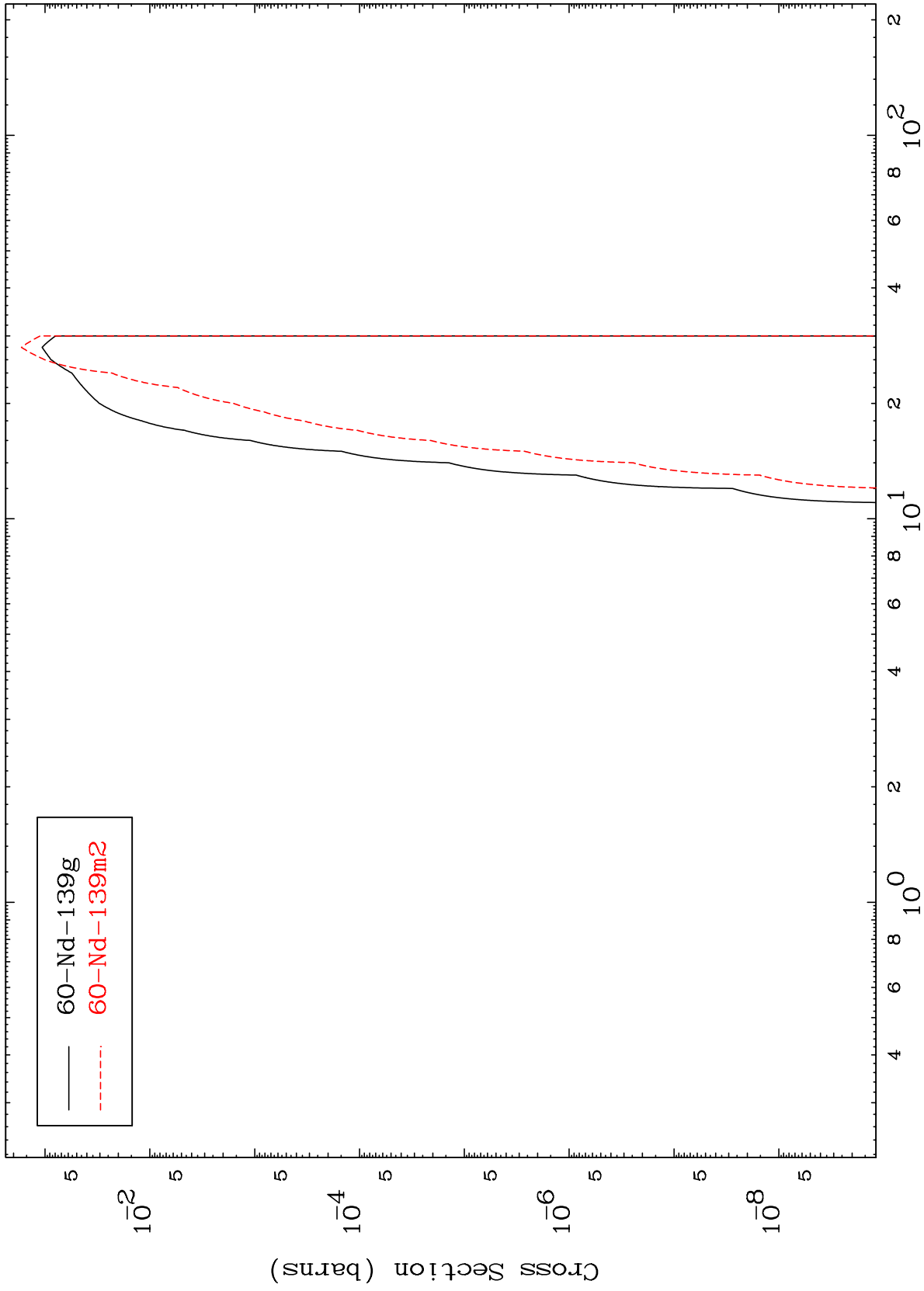
$^{60}\text{Nd}-^{139}$

MAT 6016

( $\alpha, \alpha$ )

60-Nd-139

Radionuclide Production Cross Section



17

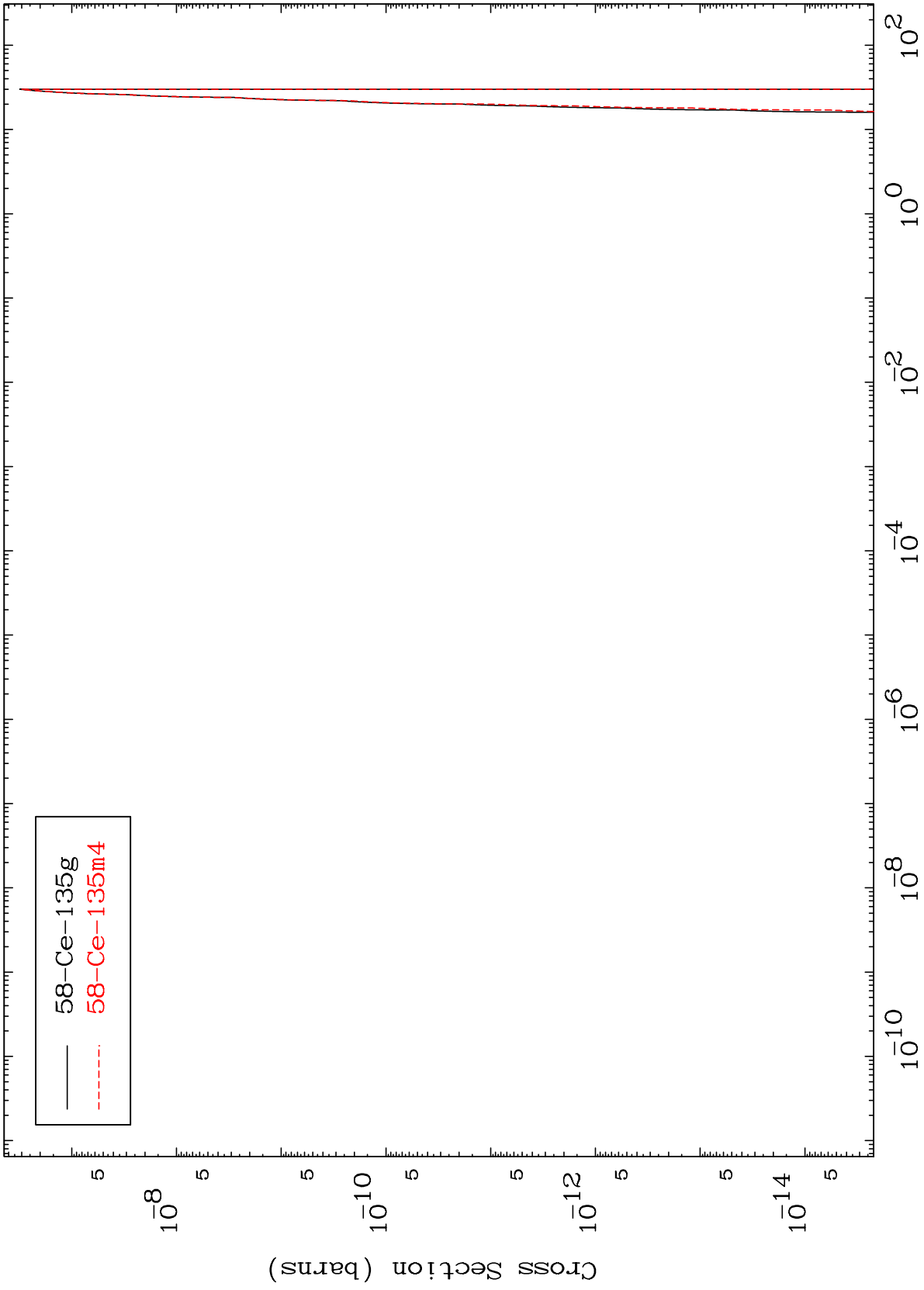
Incident Energy (MeV)

60-Nd-139

MAT 6016

Radionuclide Production Cross Section  
( $\alpha, 2\alpha$ )

60-Nd-139



18

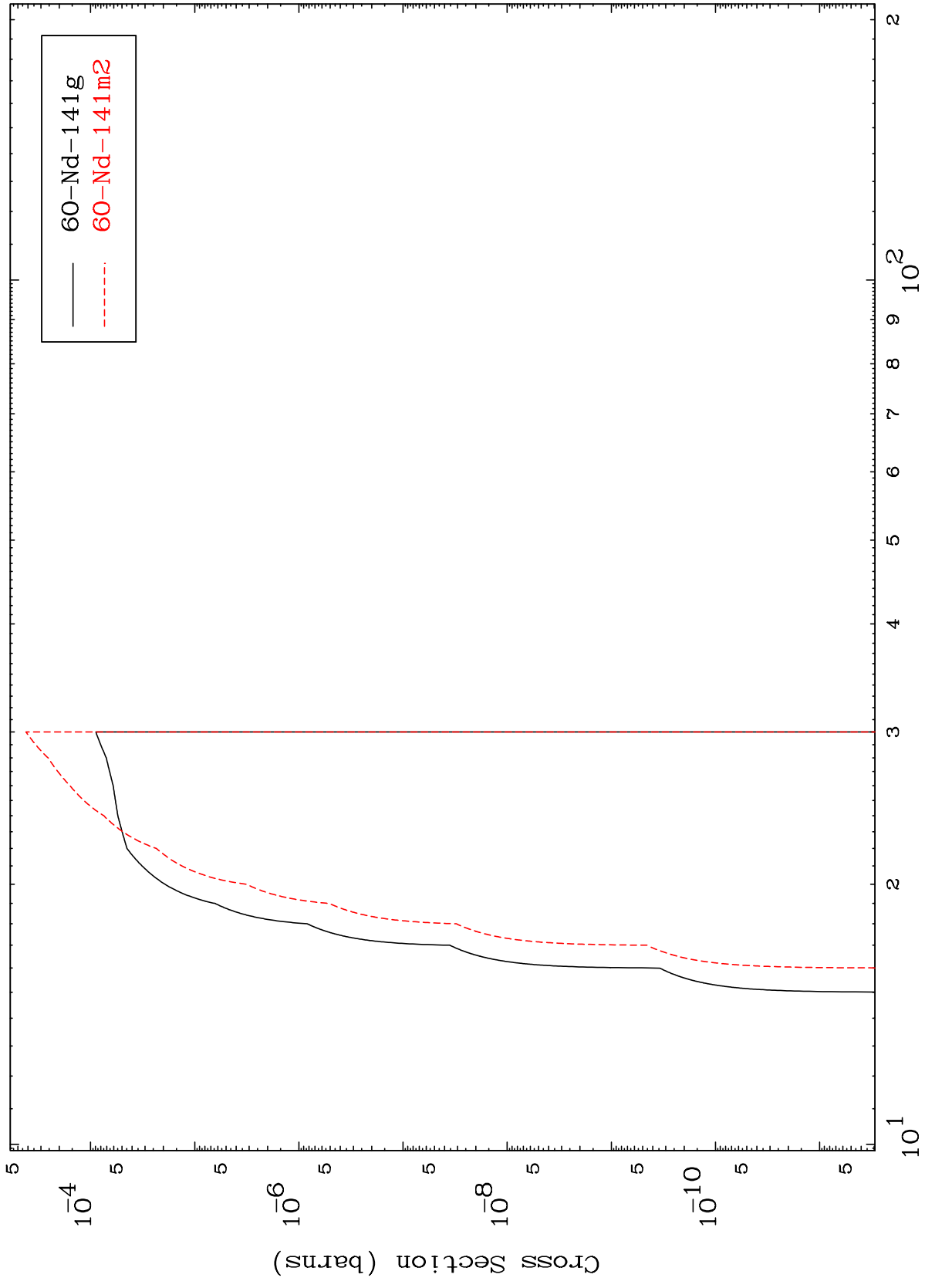
60-Nd-139

MAT 6016

( $\alpha, 2p$ )

60-Nd-139

Radionuclide Production Cross Section



19

Incident Energy (MeV)

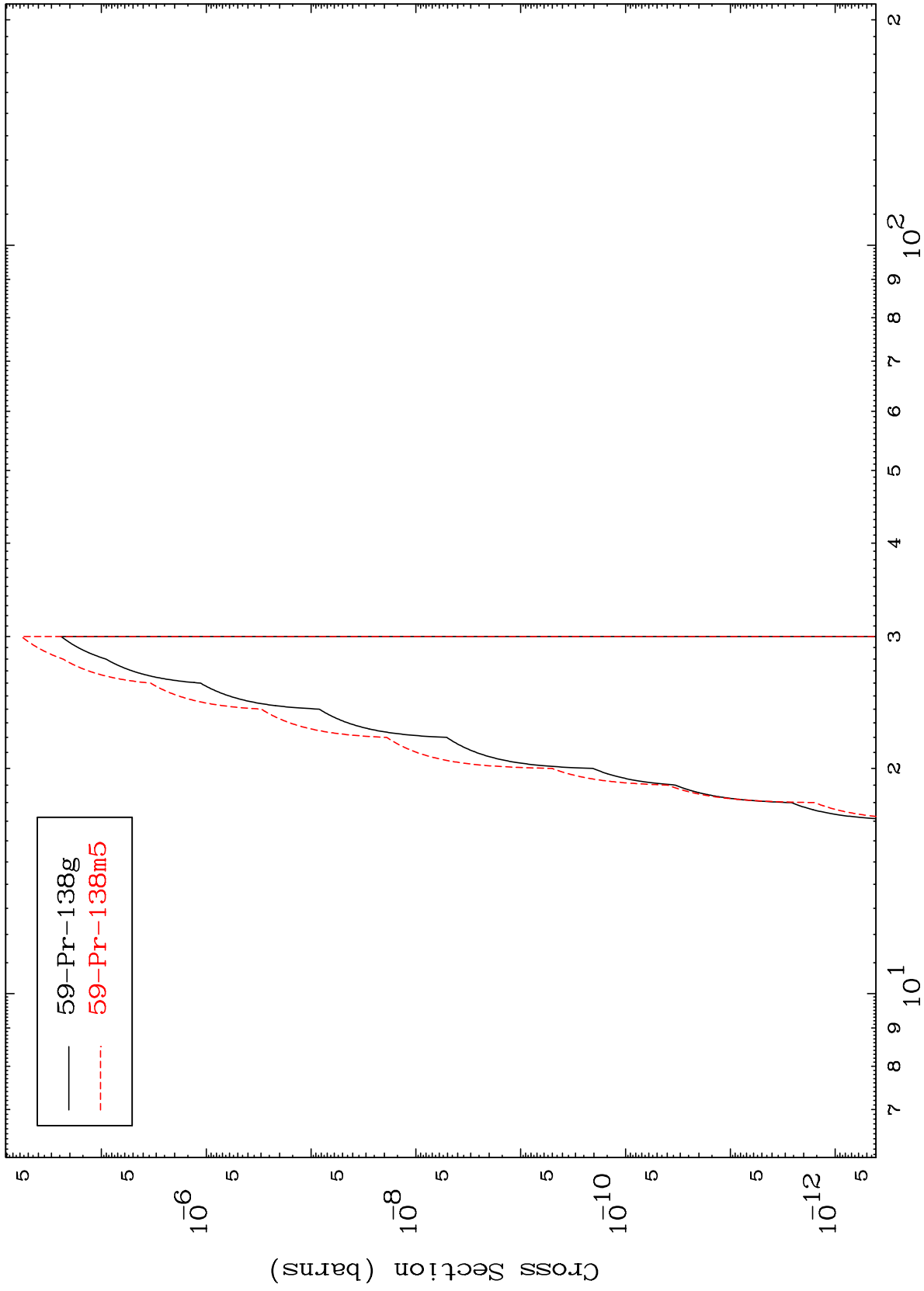
60-Nd-139

MAT 6016

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

60-Nd-139

Radionuclide Production Cross Section



59-Pr-138g  
59-Pr-138m5

20

Incident Energy (MeV)

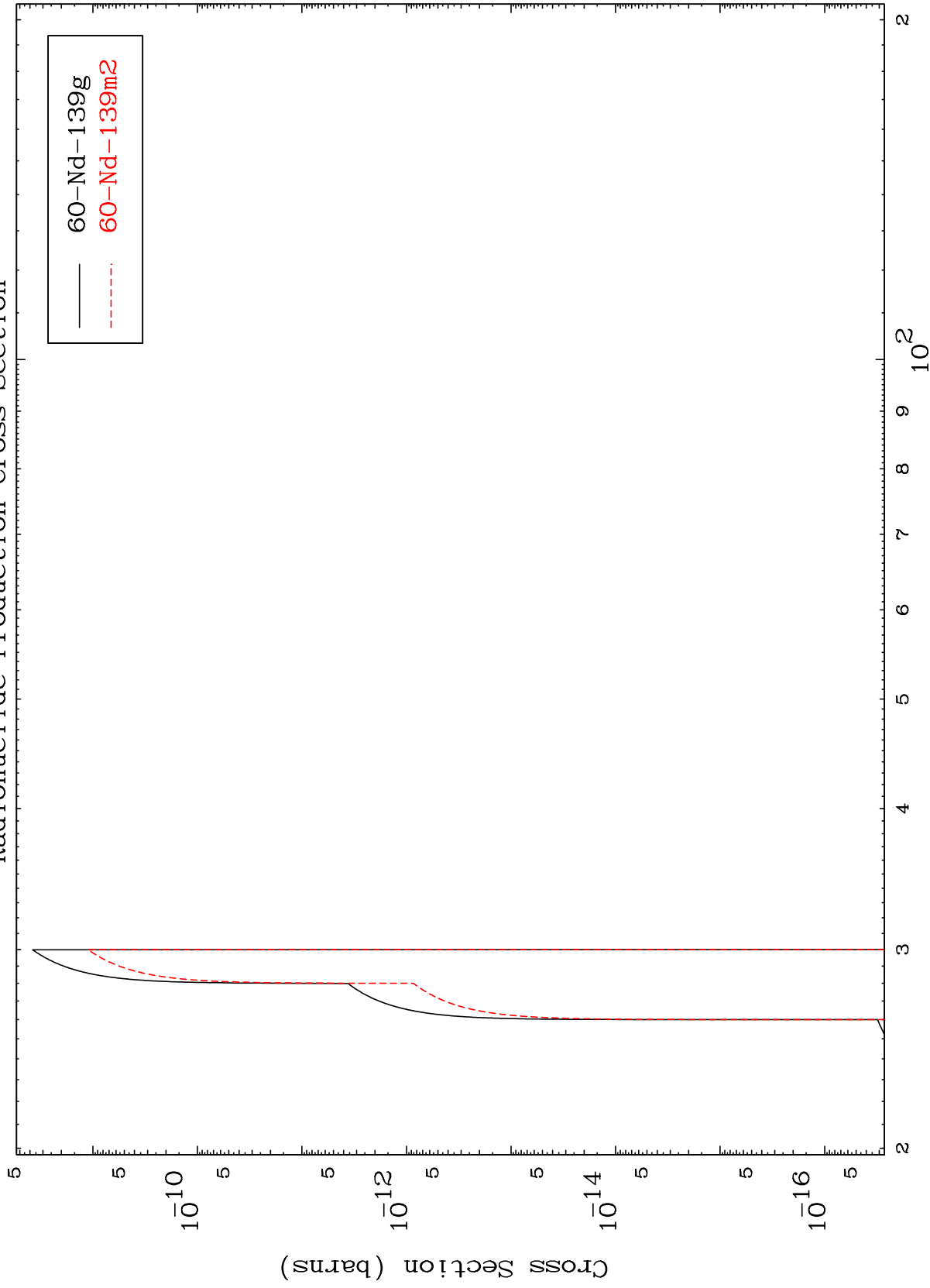
60-Nd-139

MAT 6016

( $\alpha, p$ ) t

$^{60}\text{Nd}-139$

Radionuclide Production Cross Section



21

Incident Energy (MeV)

$^{60}\text{Nd}-139$