

Program EVALPLOT  
(Version 2018-1)

by

Dermott E. Cullen  
(Present Contact Information)

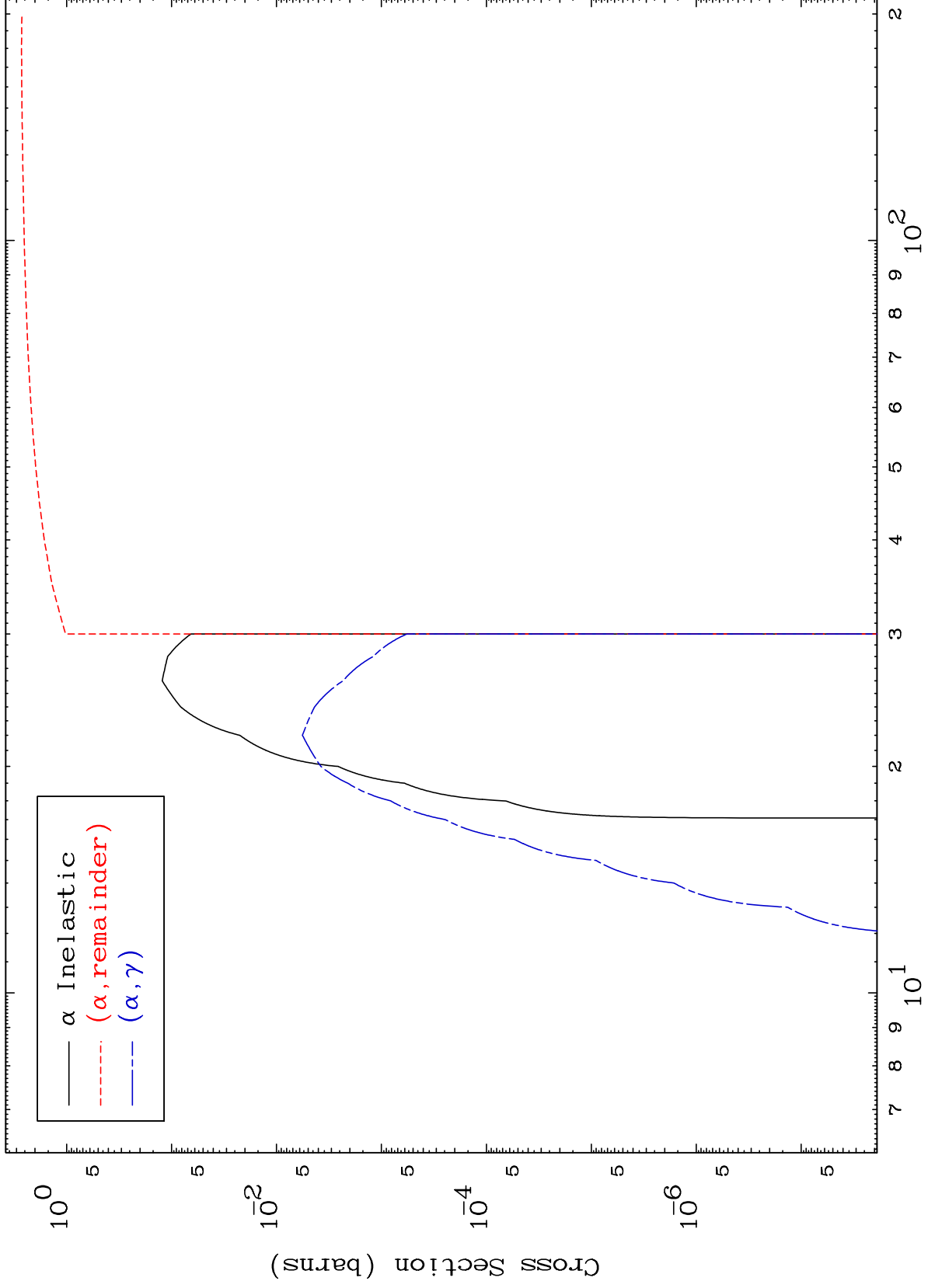
Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550  
U.S.A.

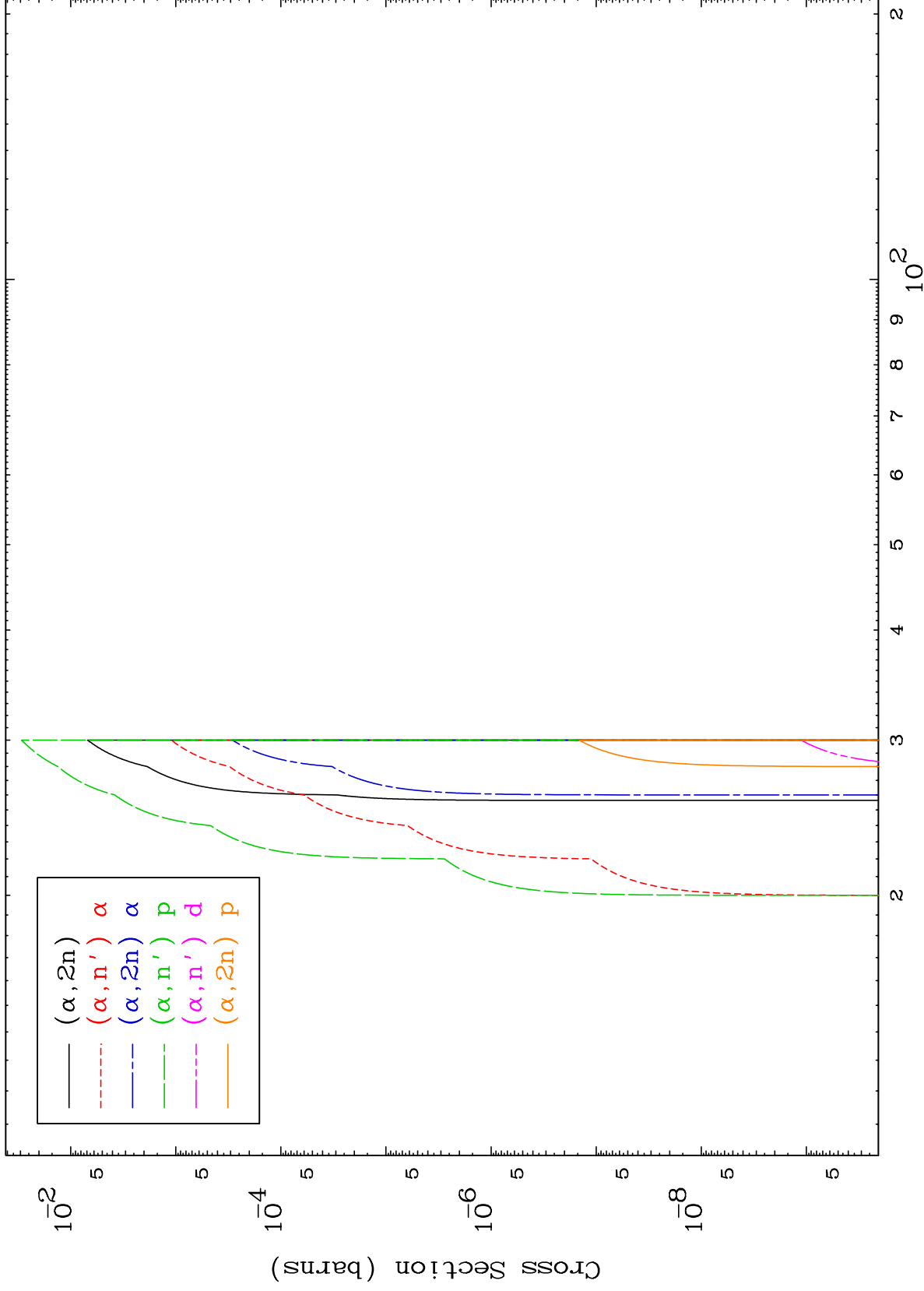
Tele: 925-443-1911

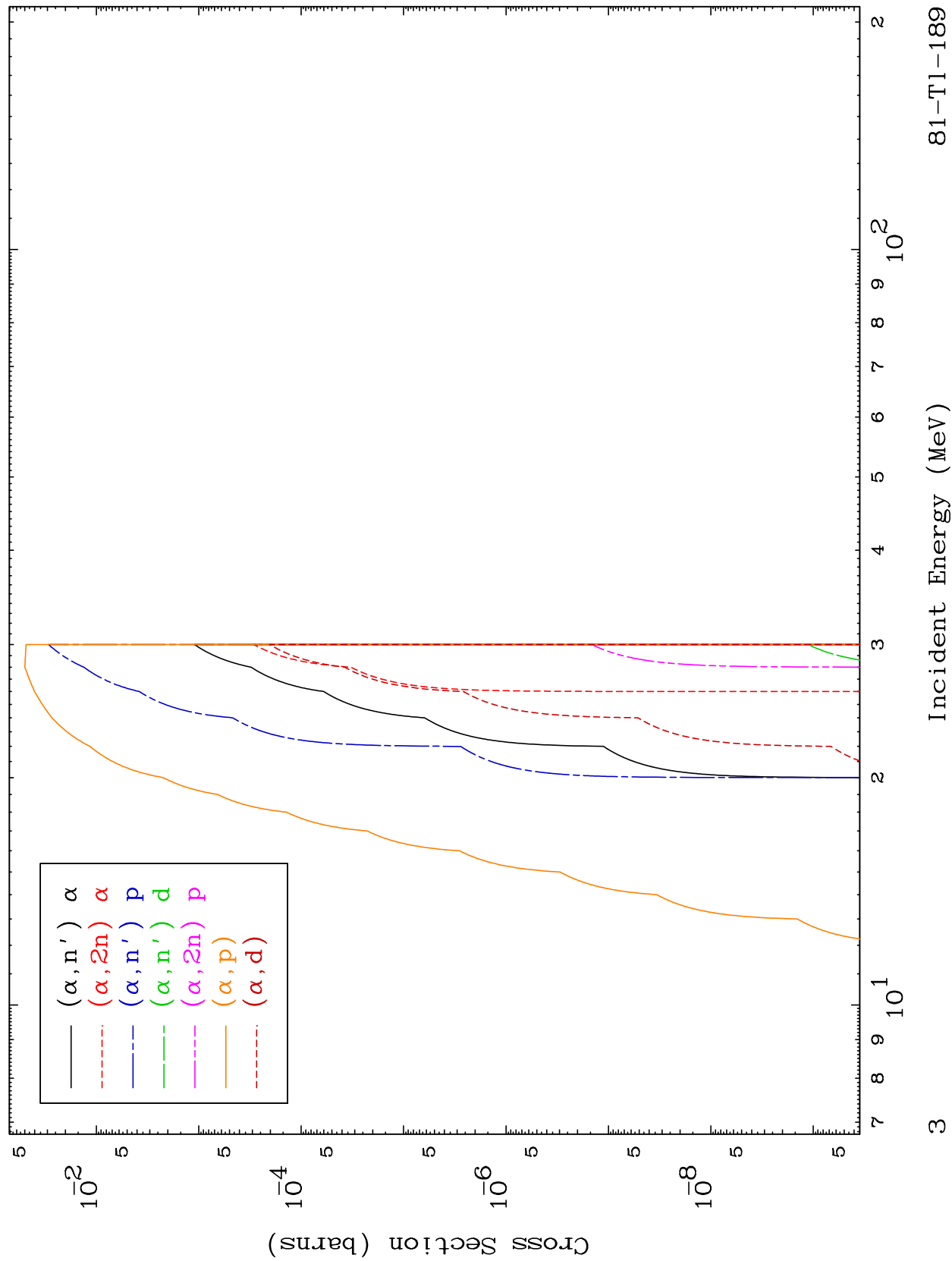
E.Mail:redcullen1@comcast.net

Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start





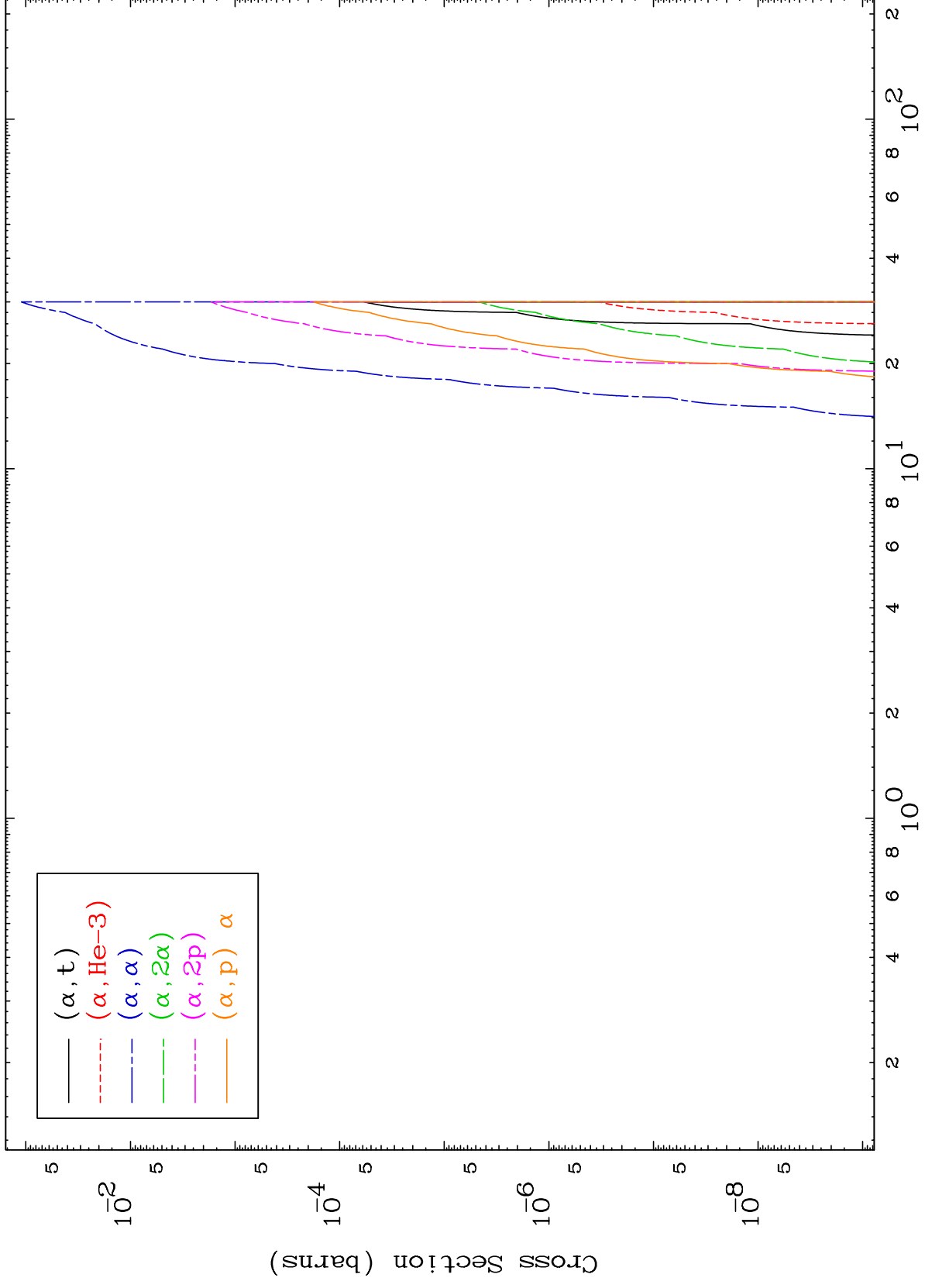


MAT 8083

$\alpha$  Charged Particle

81-Tl-189

0 Kelvin Cross Sections

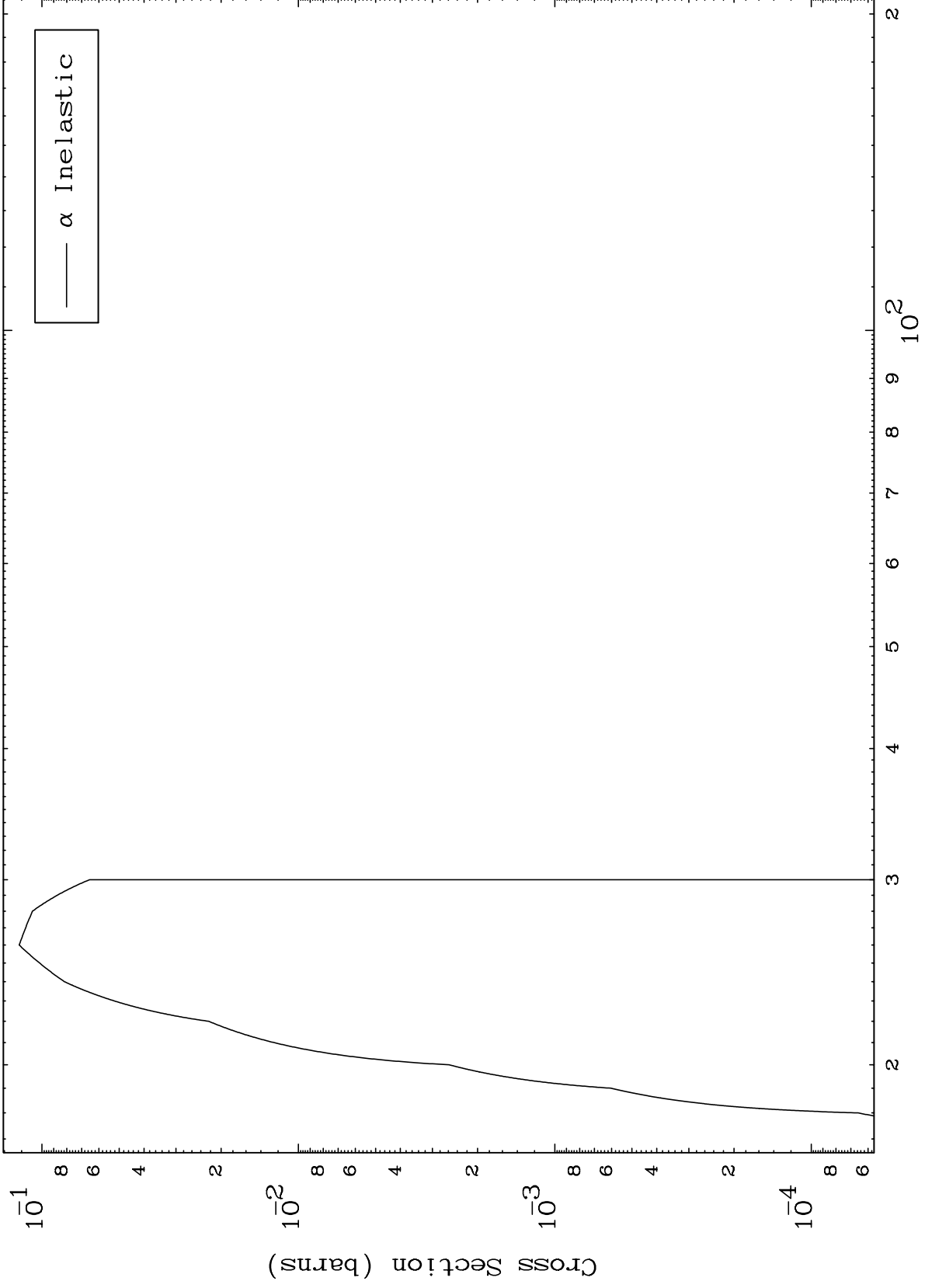


MAT 8083

( $\alpha, n'$ ) Level

81-Tl-189

0 Kelvin Cross Sections



5

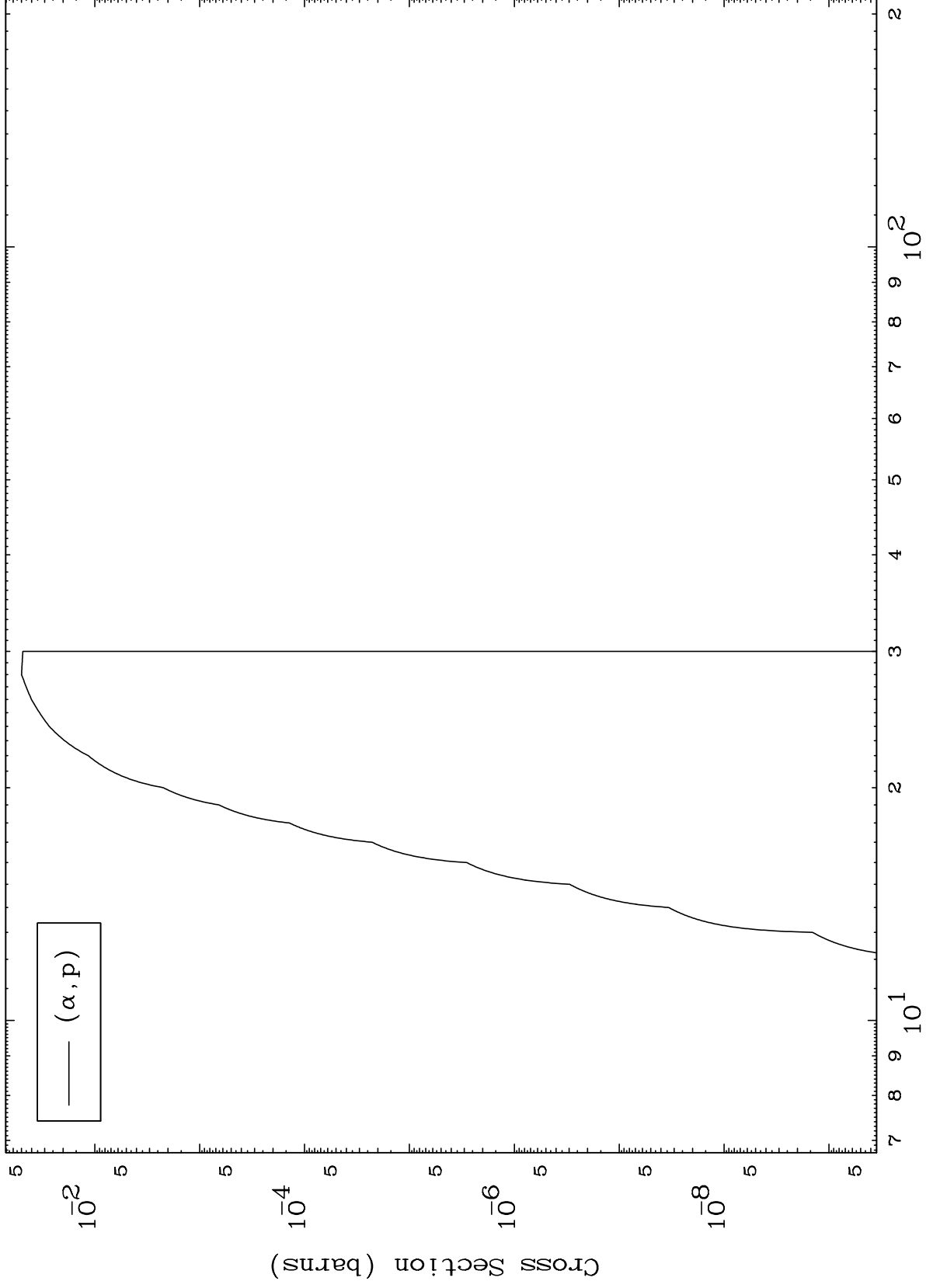
Incident Energy (MeV)

81-Tl-189

MAT 8083

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

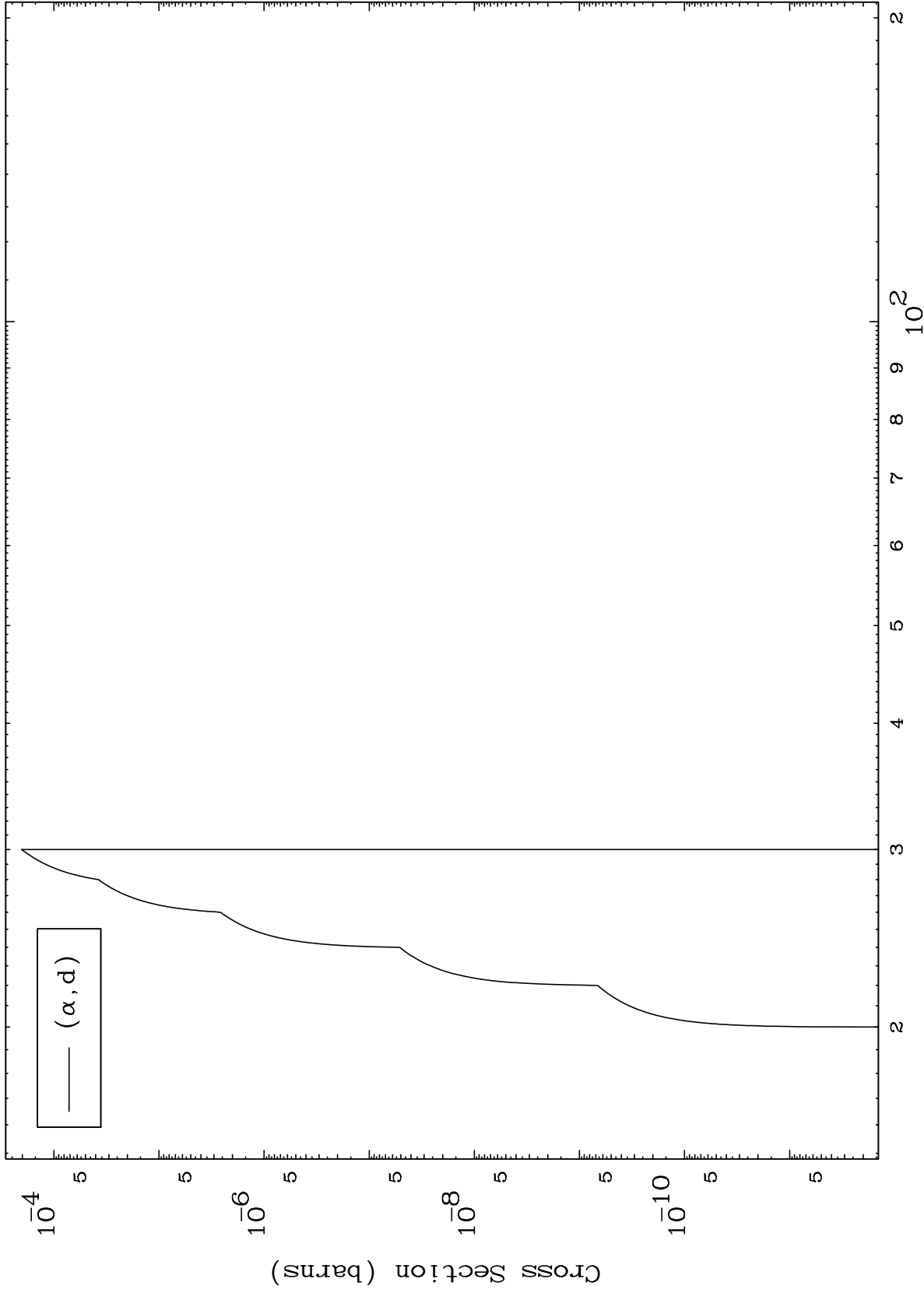
81-Tl-189



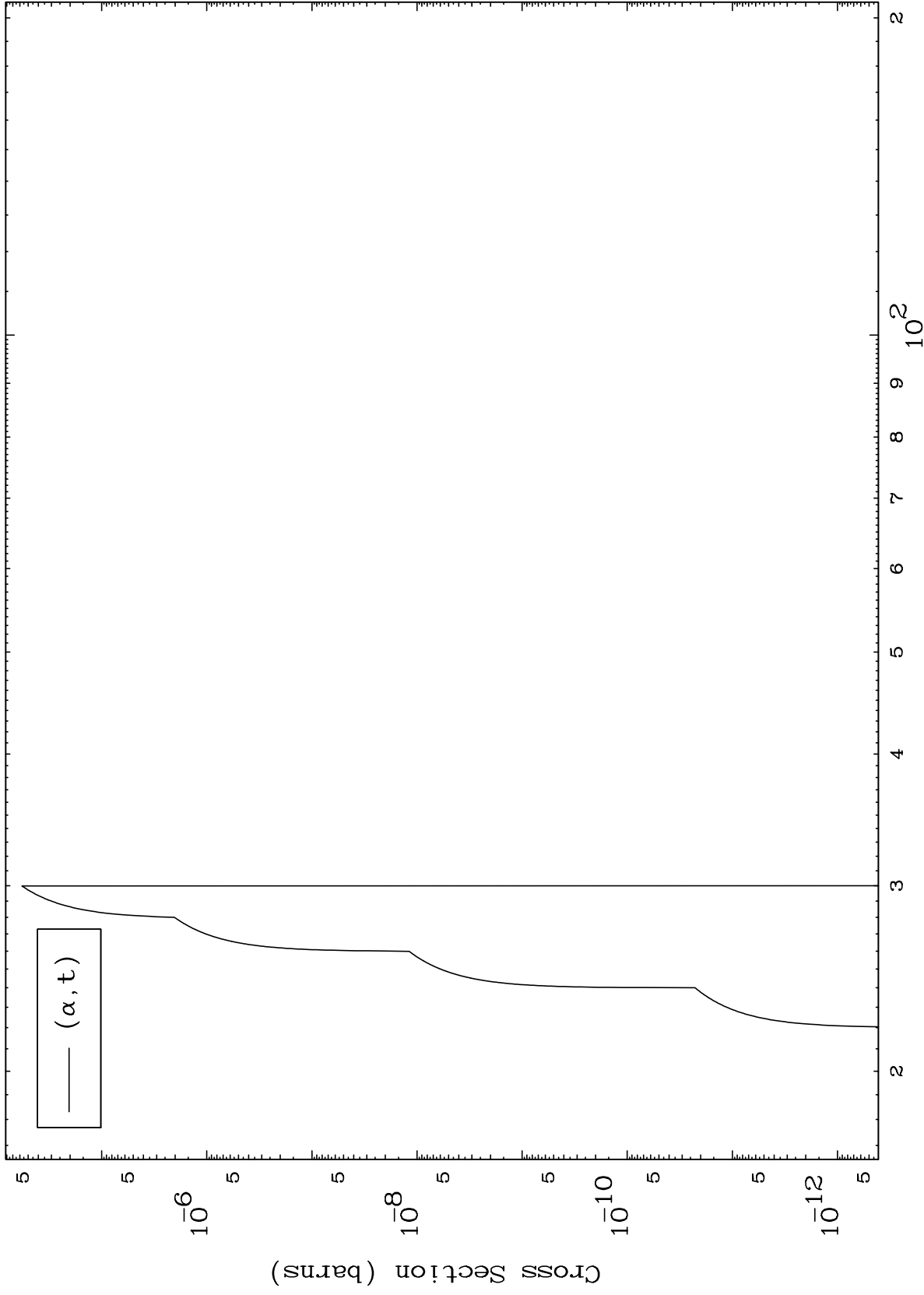
6

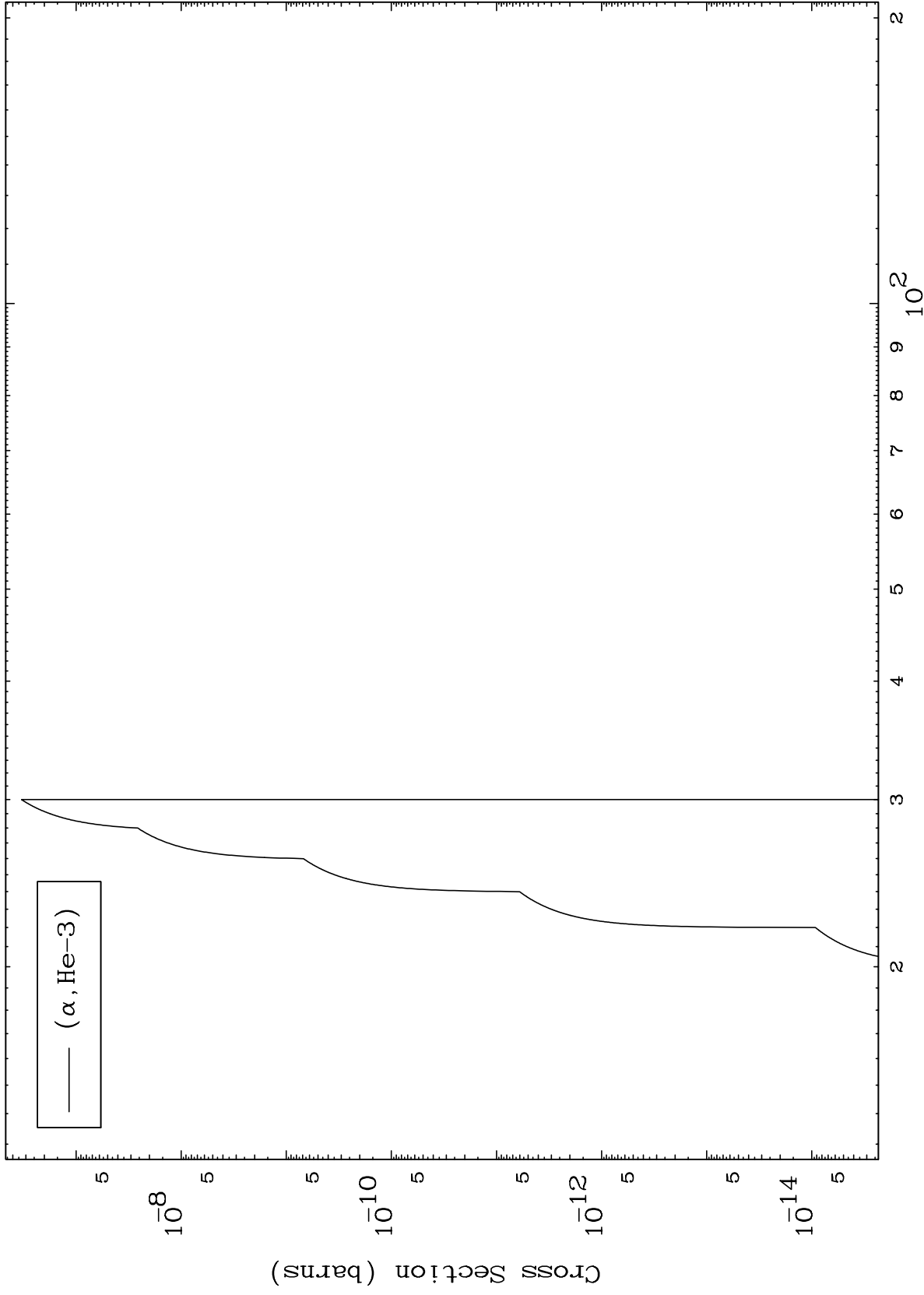
Incident Energy (MeV)

81-Tl-189







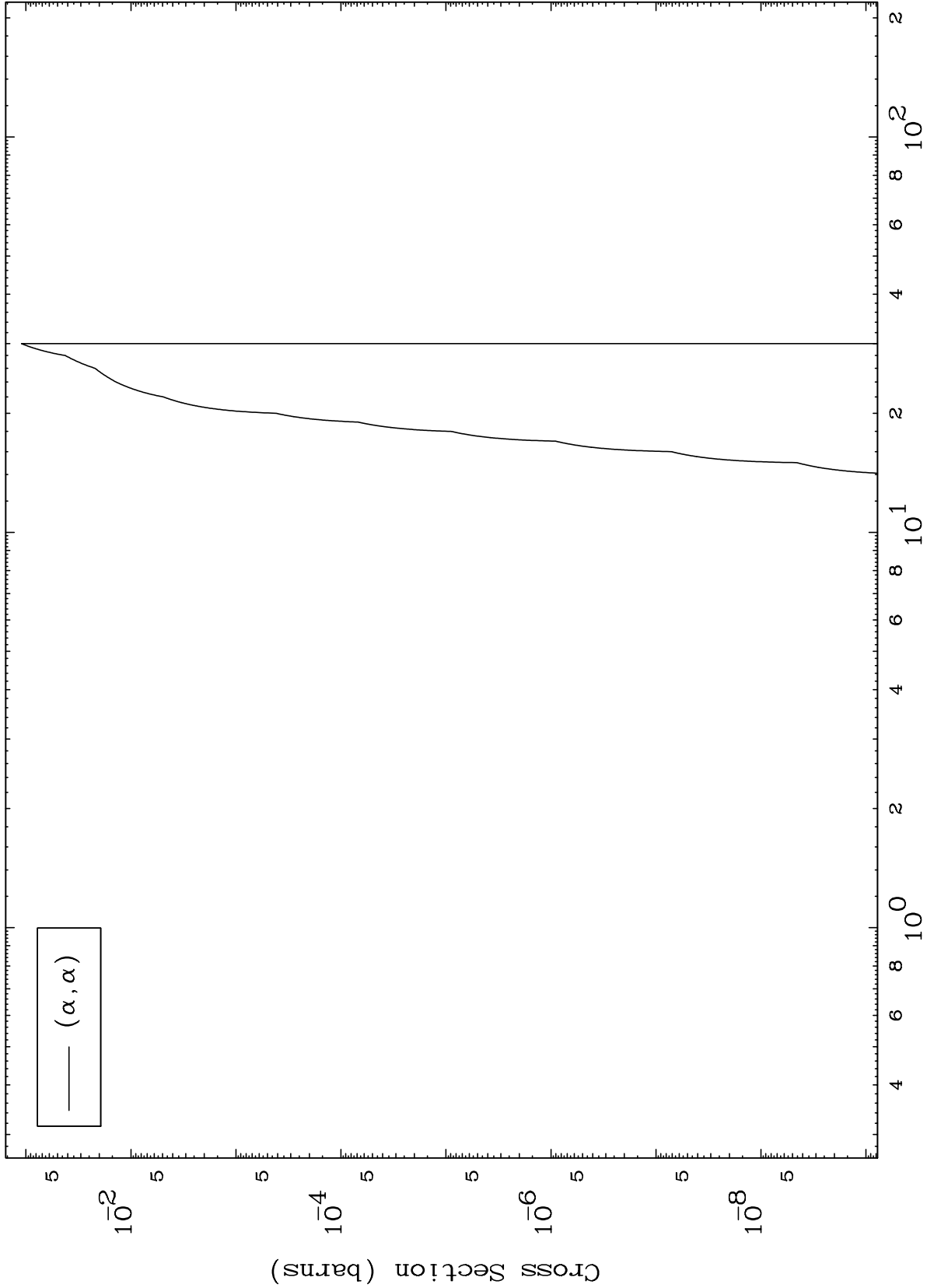


MAT 8083

( $\alpha, \alpha$ ) Levels

81-Tl-189

0 Kelvin Cross Sections



10

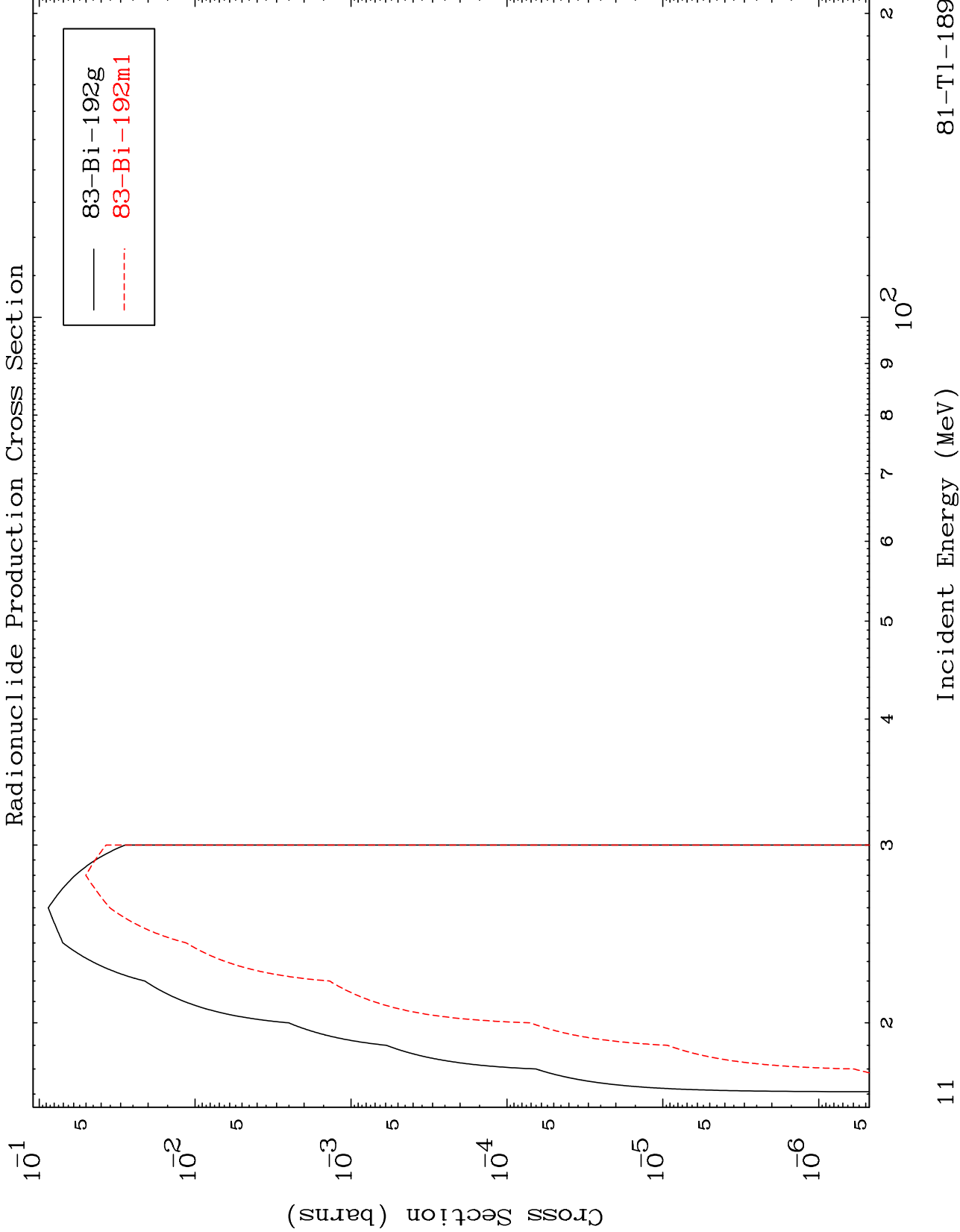
Incident Energy (MeV)

81-Tl-189

MAT 8083

$\alpha$  Inelastic

81-Tl-189



11

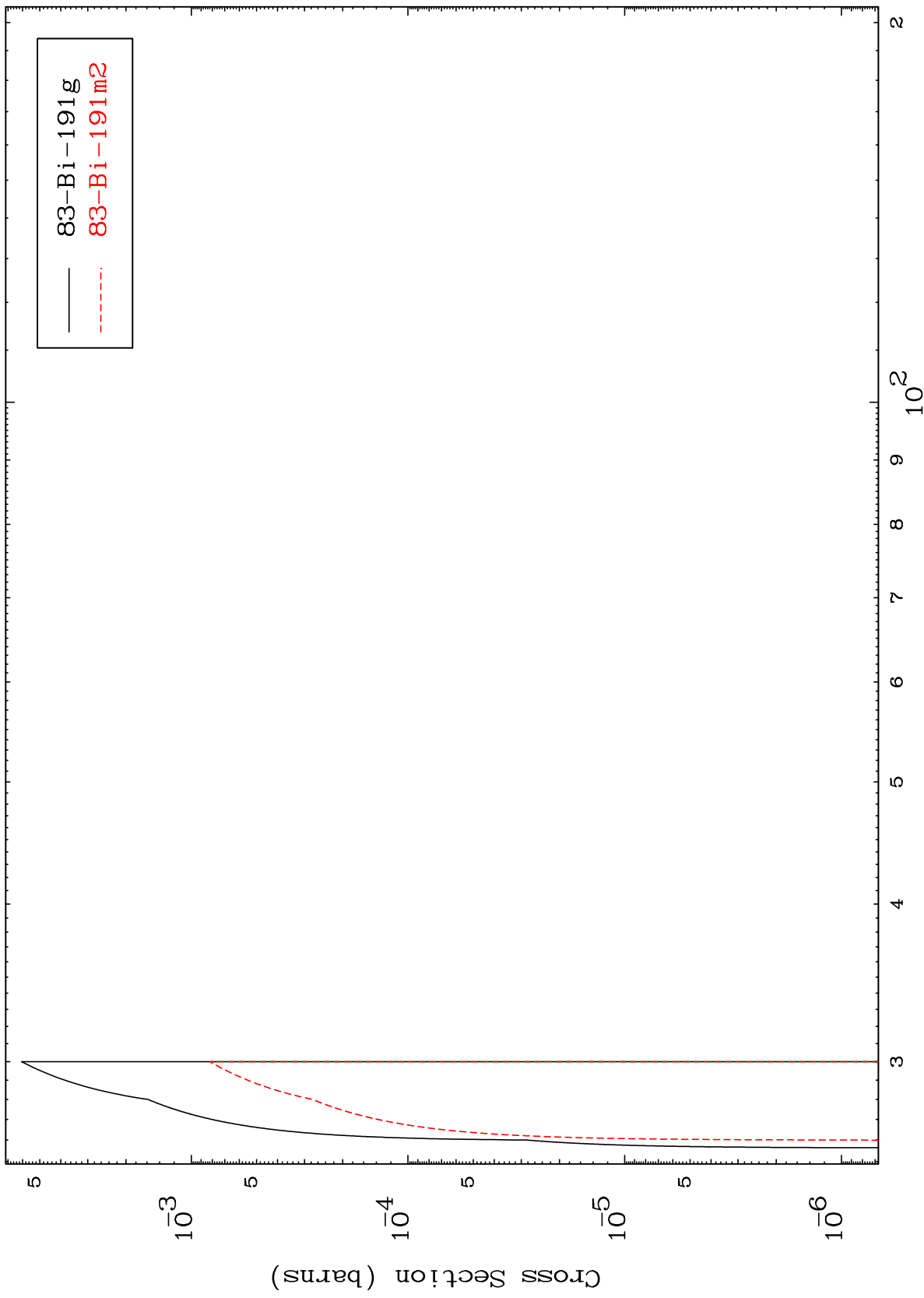
Incident Energy (MeV)

81-Tl-189

MAT 8083

81-Tl-189

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



81-Tl-189

Incident Energy (MeV)

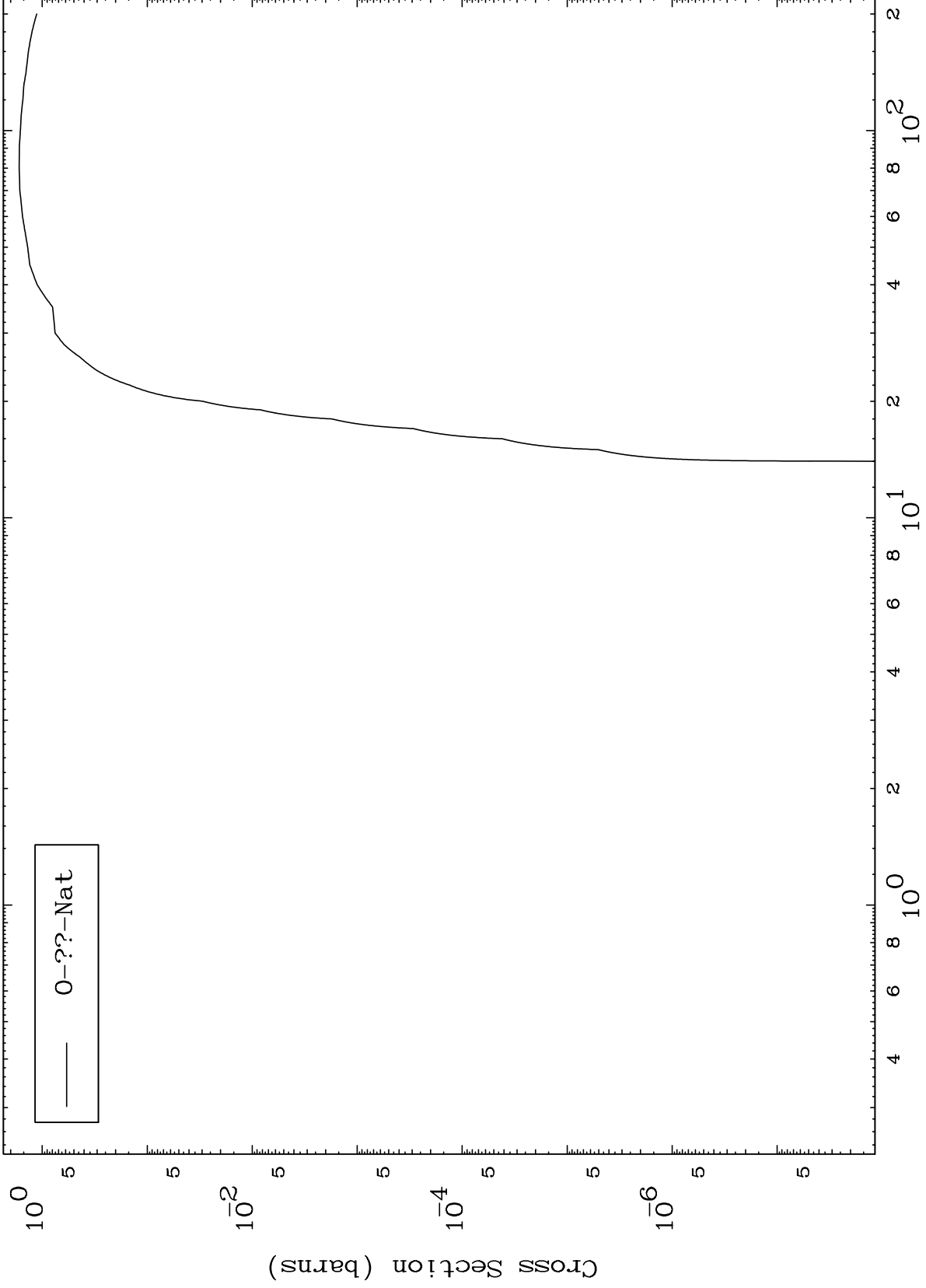
12

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$\alpha$  Fission

81-Tl-189

Radionuclide Production Cross Section

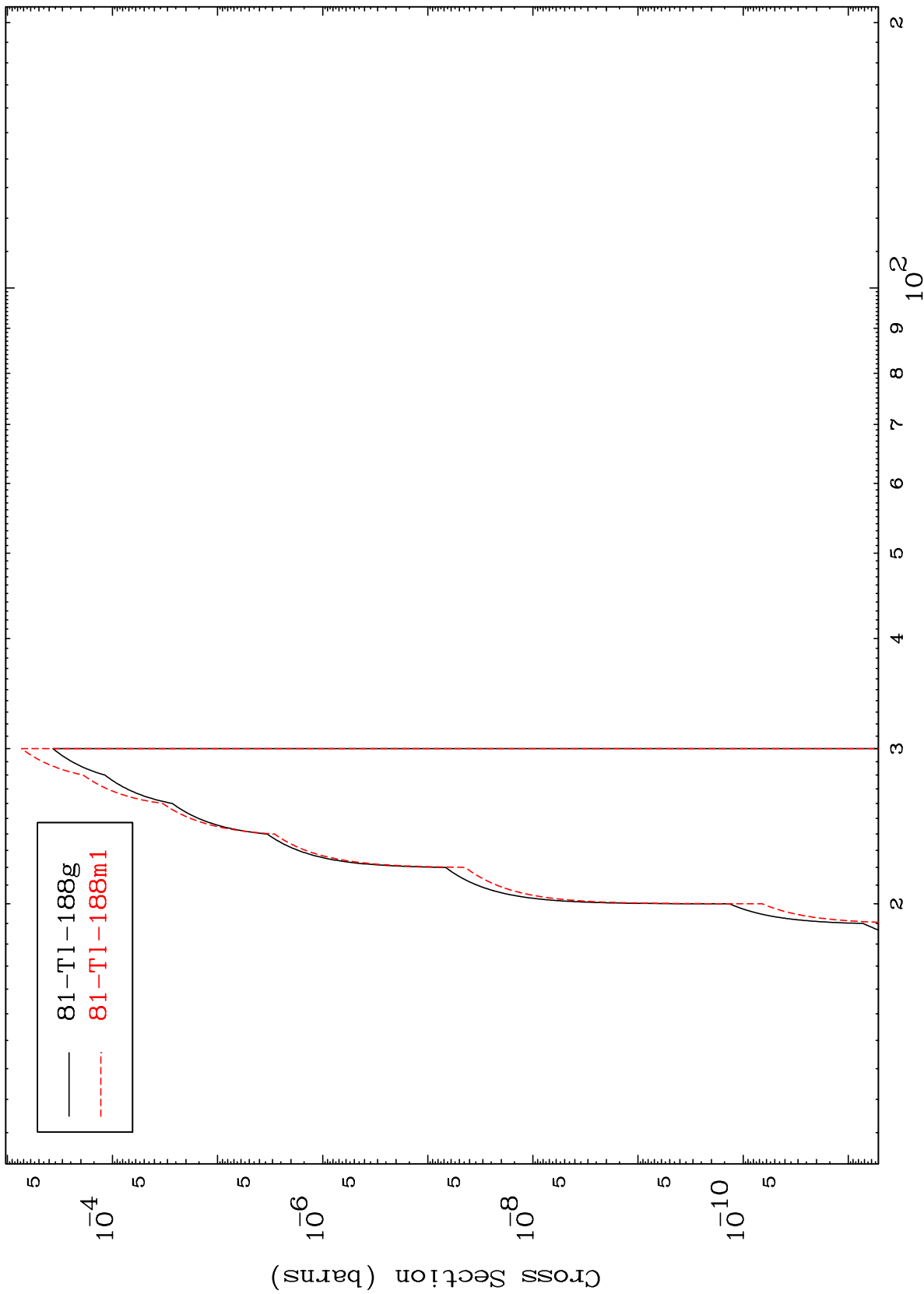


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( $\alpha, n'$ )  $\alpha$

81-Tl-189

Radionuclide Production Cross Section

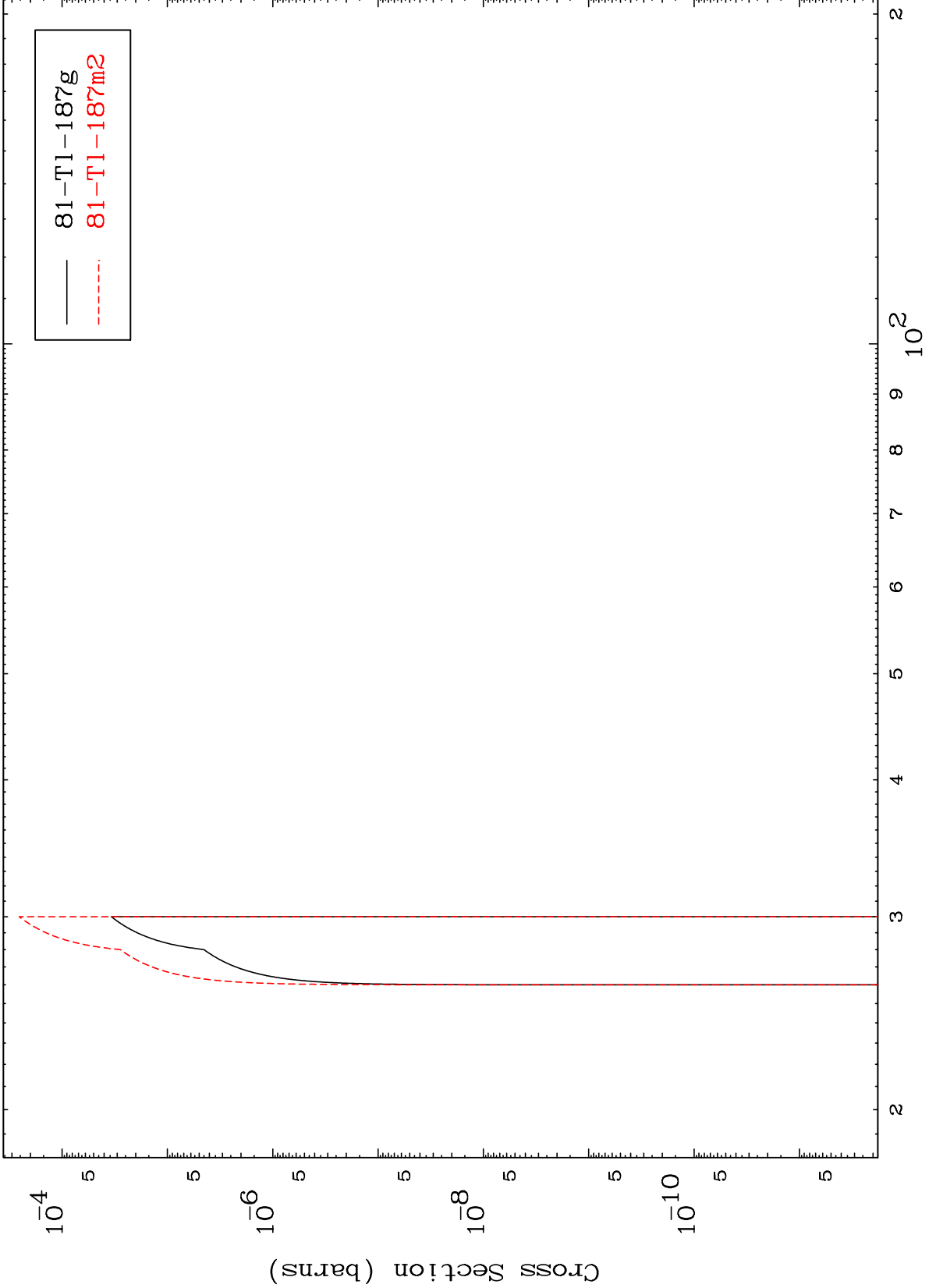


MAT 8083

$(\alpha, 2n)$   $\alpha$

81-Tl-189

Radionuclide Production Cross Section



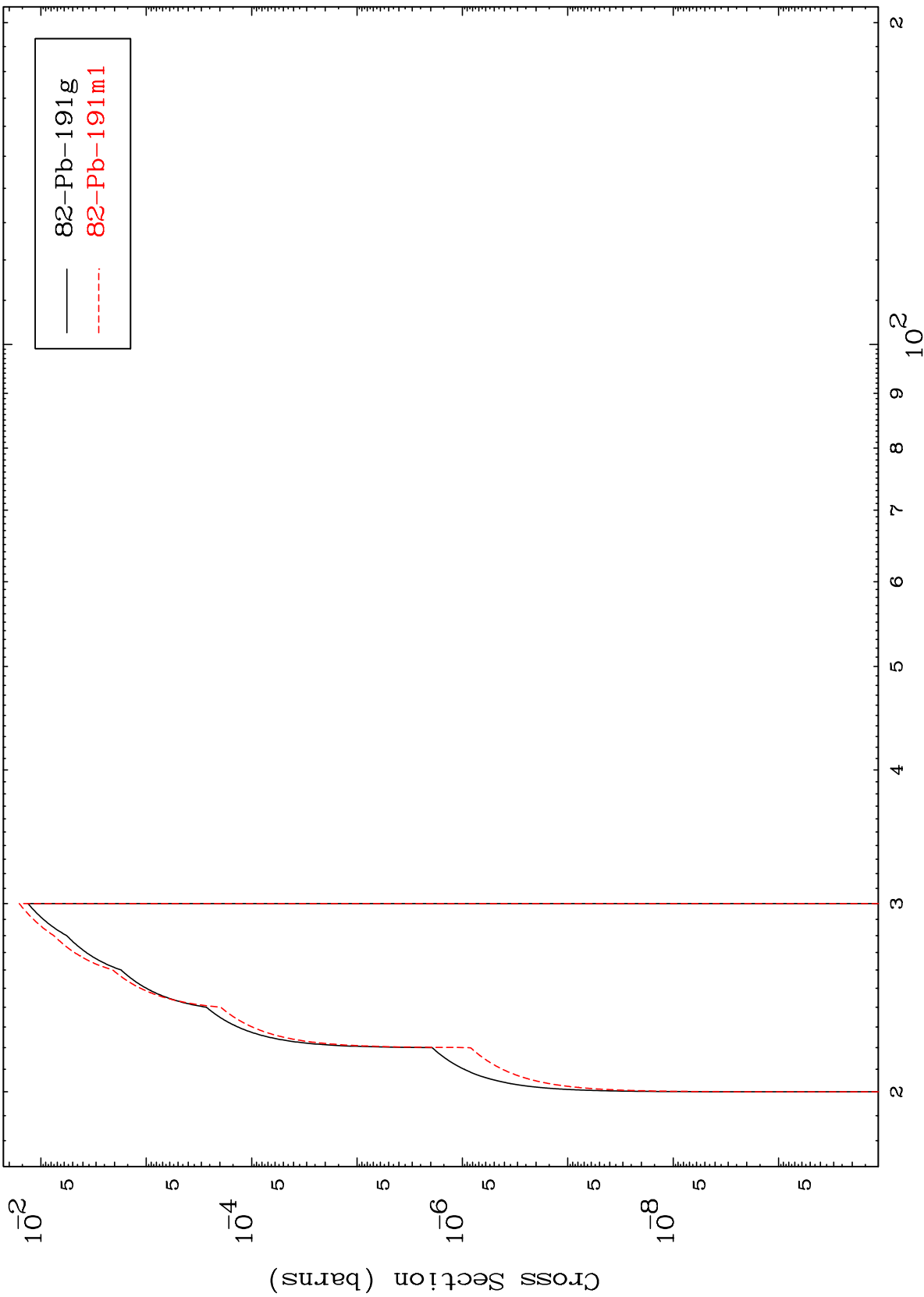
15

Incident Energy (MeV)

81-Tl-189



Radionuclide Production Cross Section

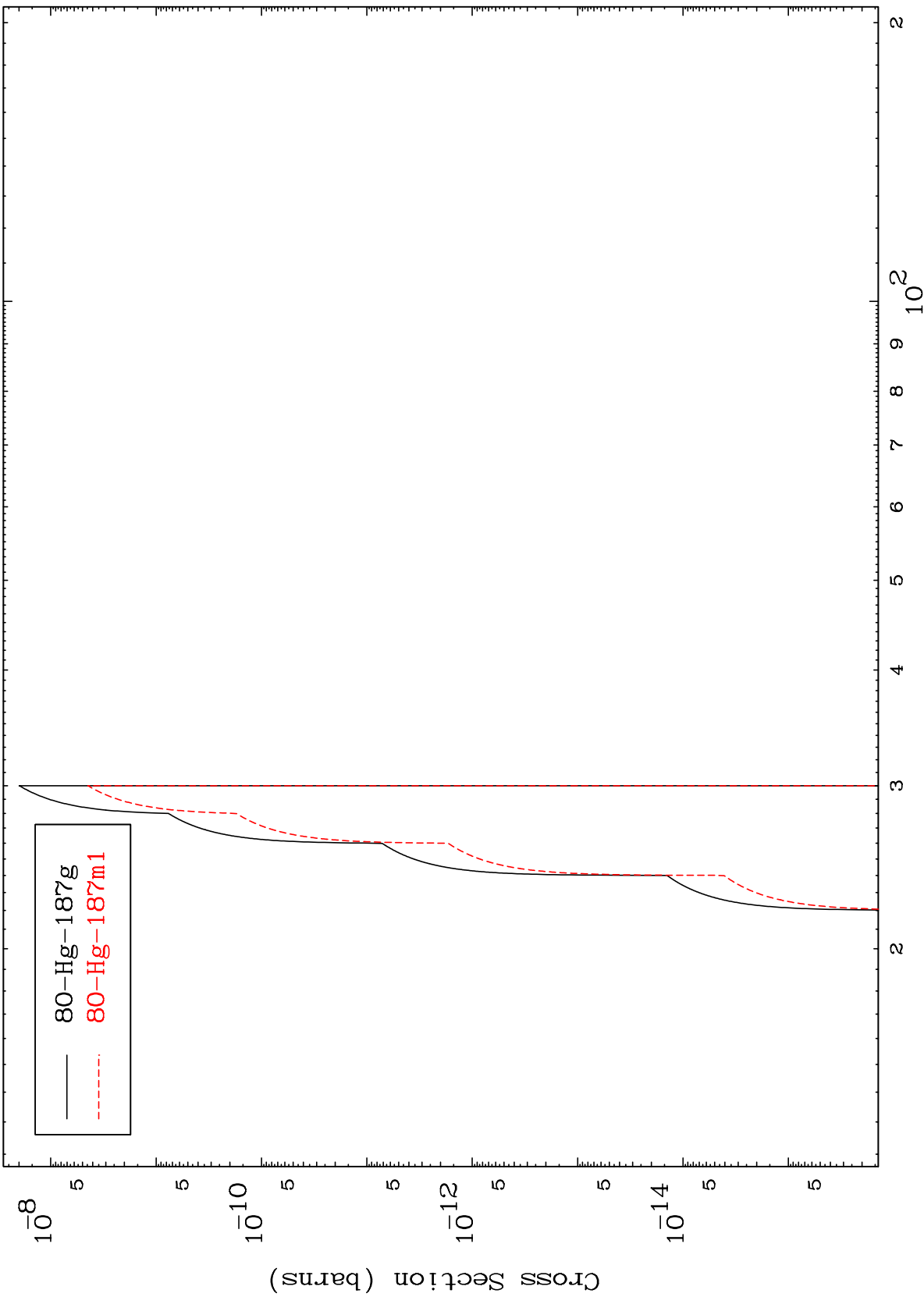


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( $\alpha, n'$ ) p  $\alpha$

81-Tl-189

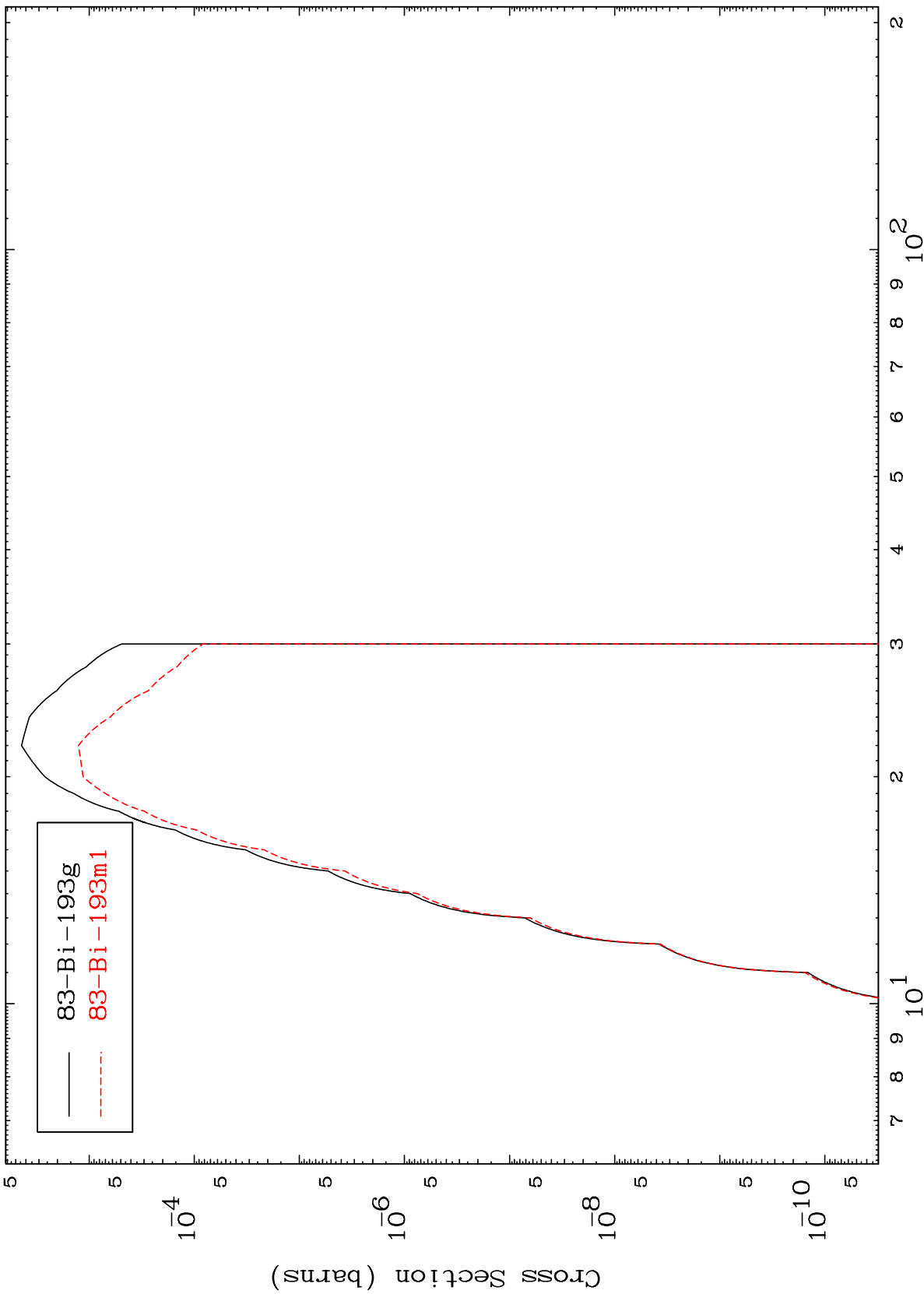
Radionuclide Production Cross Section



MAT 8083

81-Tl-189

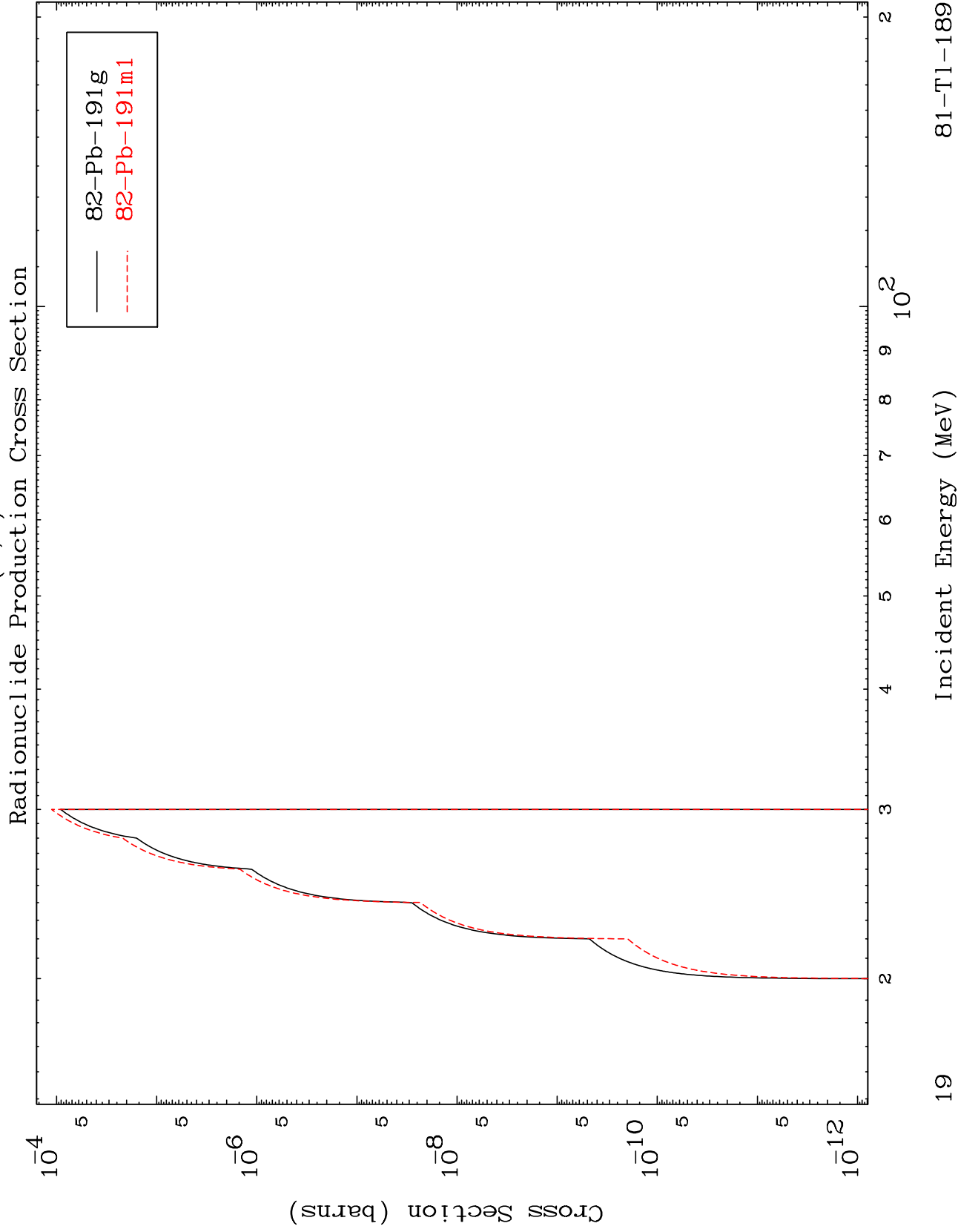
( $\alpha, \gamma$ )  
Radionuclide Production Cross Section



18

Incident Energy (MeV)

81-Tl-189

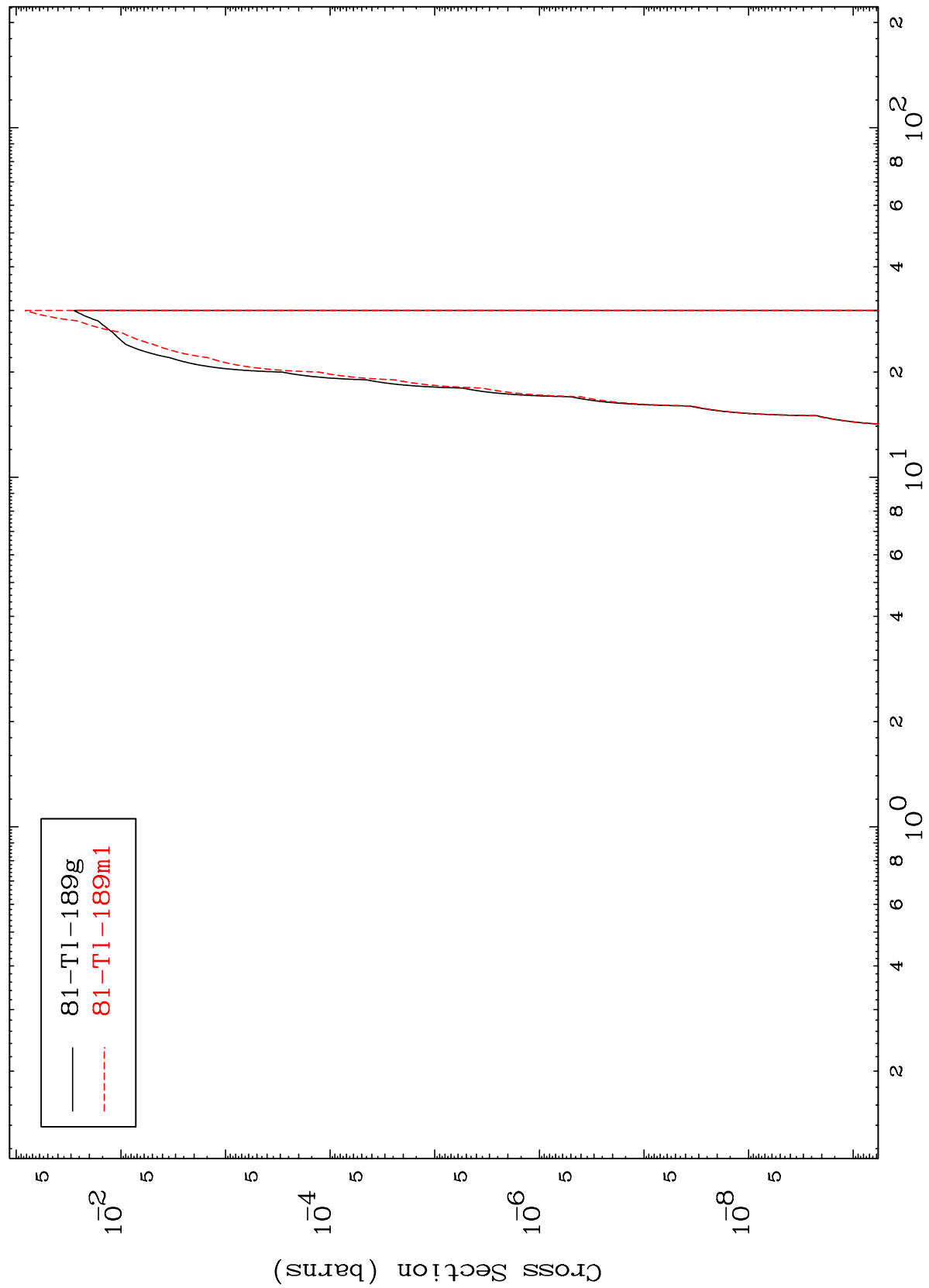


MAT 8083

( $\alpha, \alpha$ )

81-Tl-189

Radionuclide Production Cross Section



81-Tl-189g  
81-Tl-189m1

20

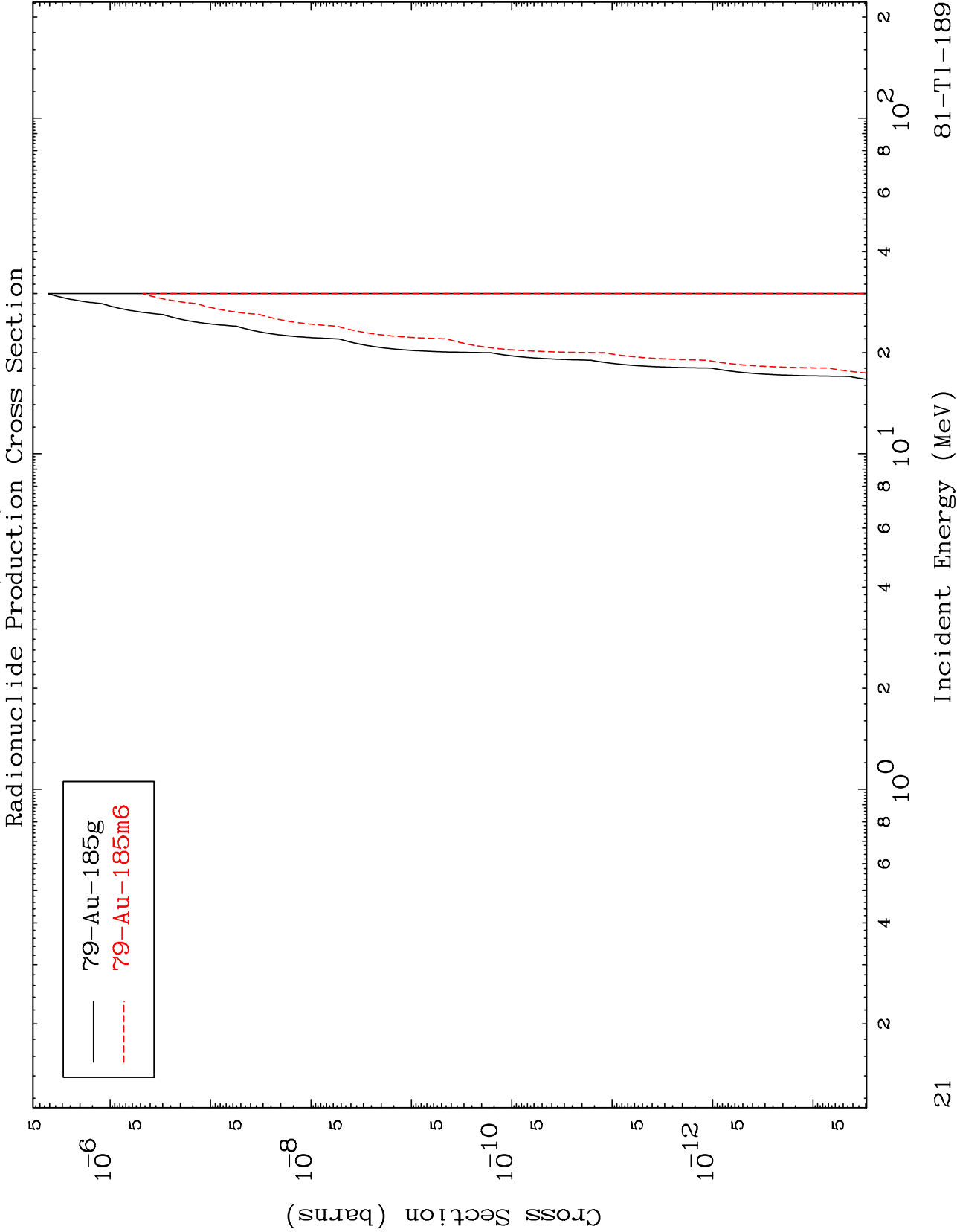
Incident Energy (MeV)

81-Tl-189

MAT 8083

( $\alpha, 2\alpha$ )

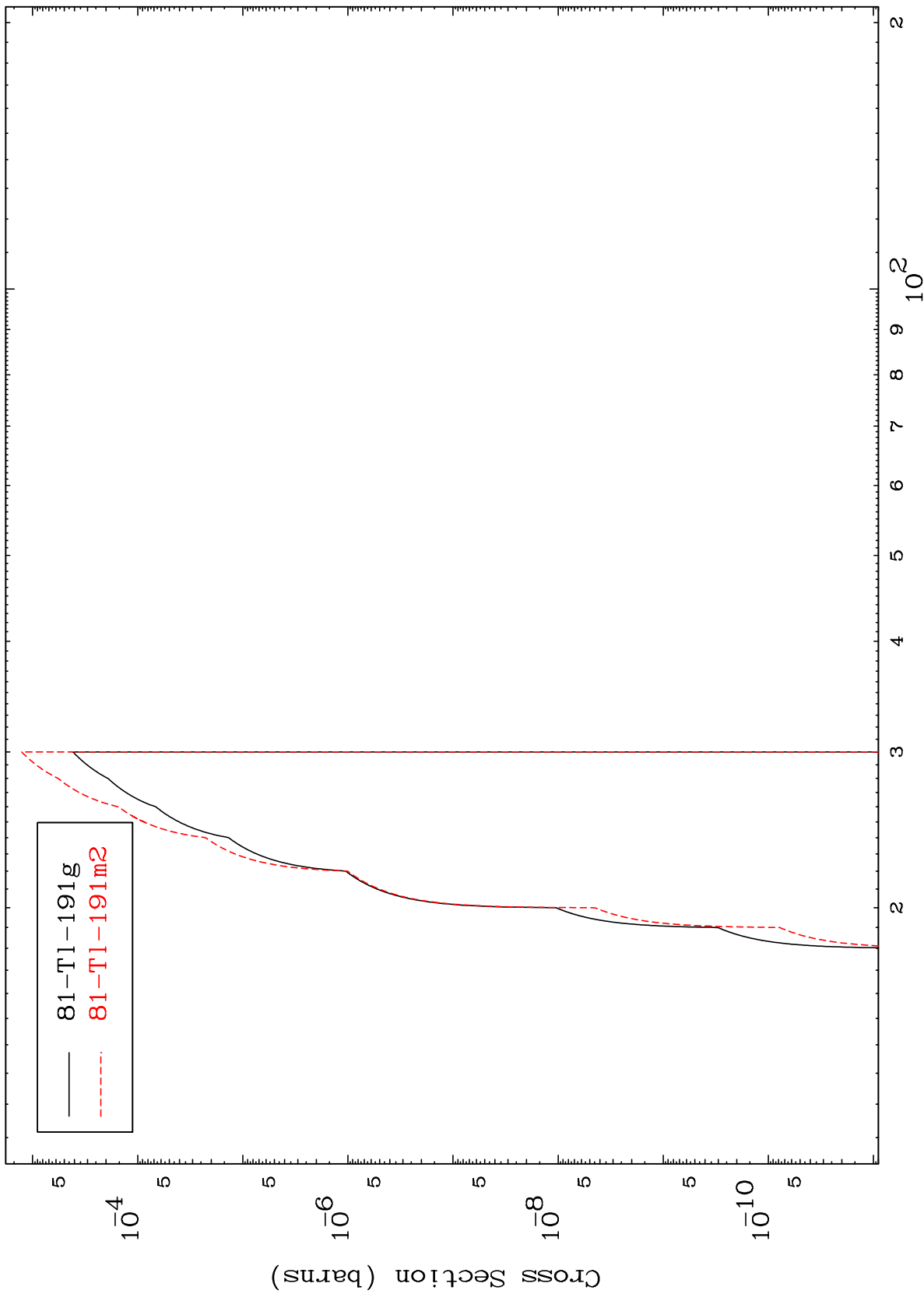
81-Tl-189



MAT 8083

81-Tl-189

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



81-Tl-189

Incident Energy (MeV)

22