

Program EVALPLOT  
(Version 2021-1)

by

Dermott E. Cullen  
(Present Contact Information)

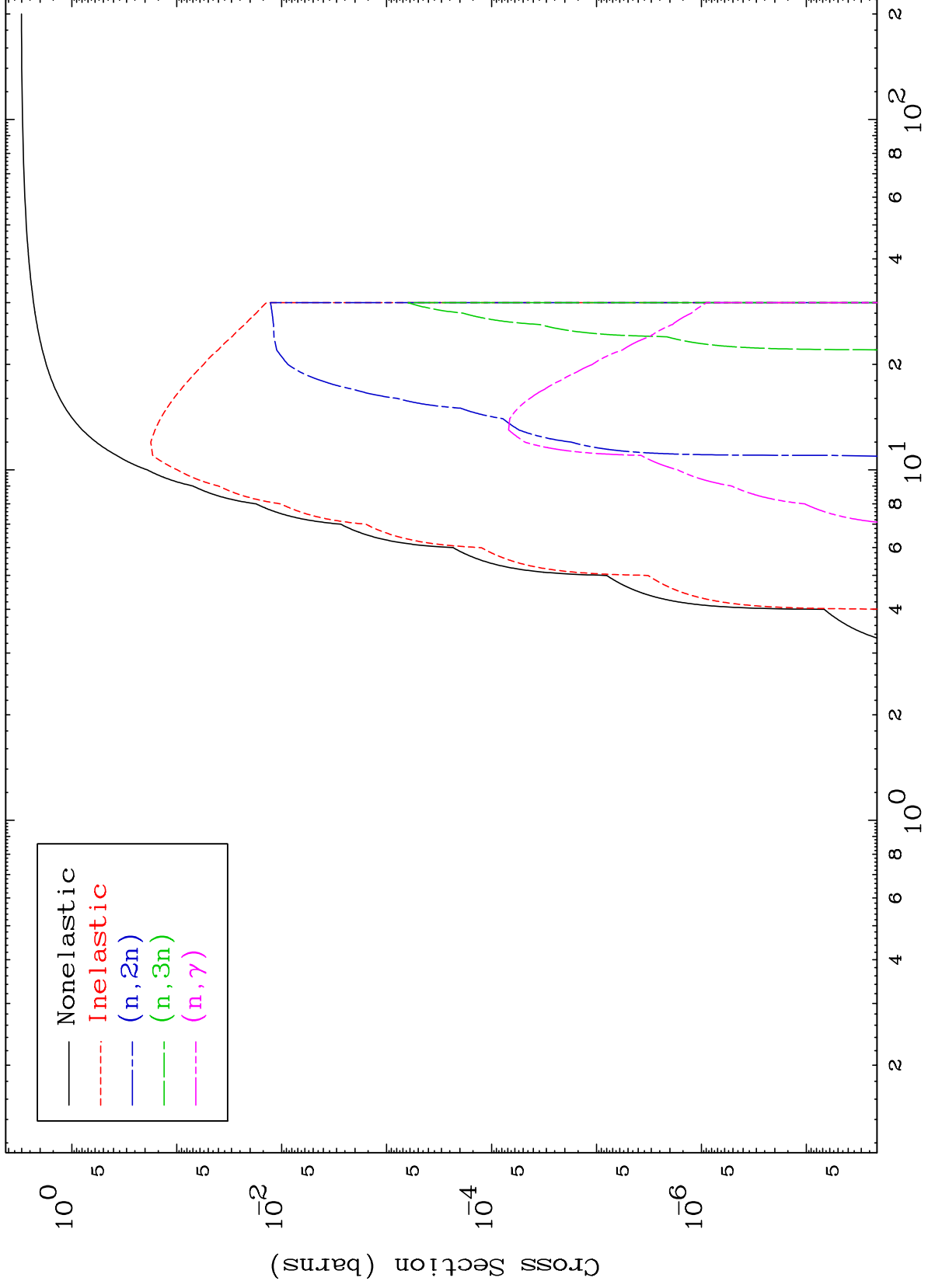
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Web:redcullen1.net/HOMEPAGE.NEW

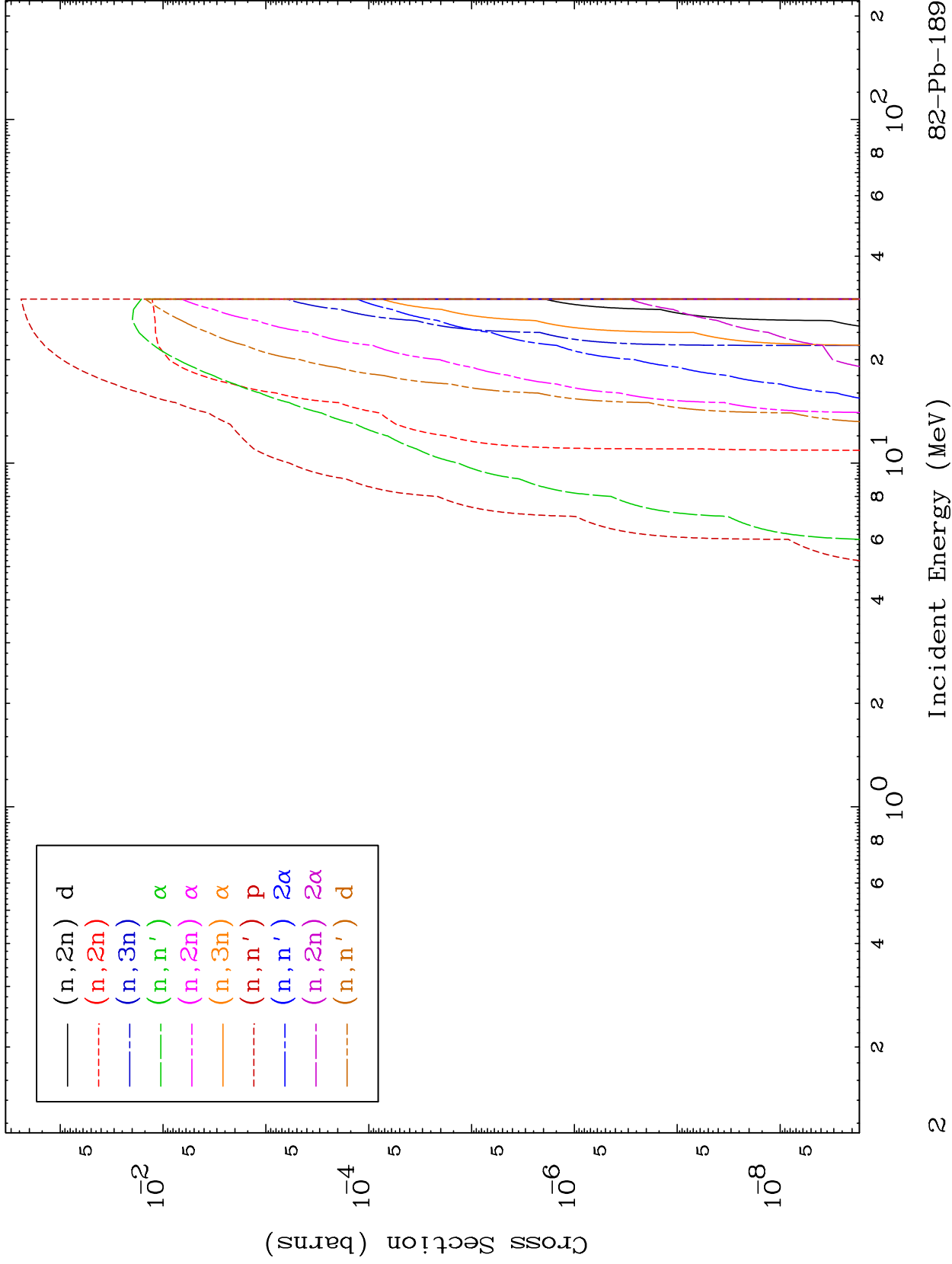
Press Mouse Button to Start

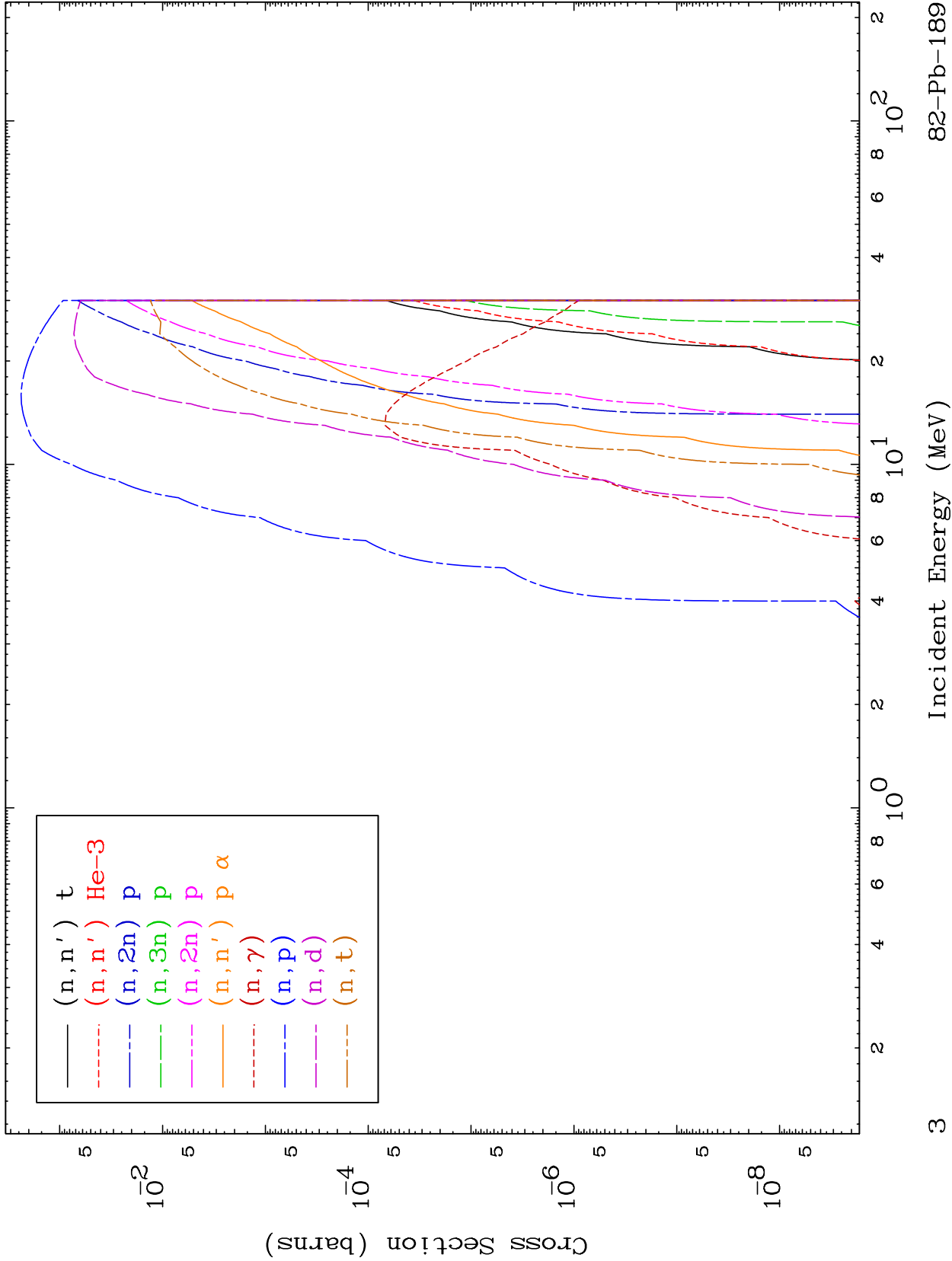


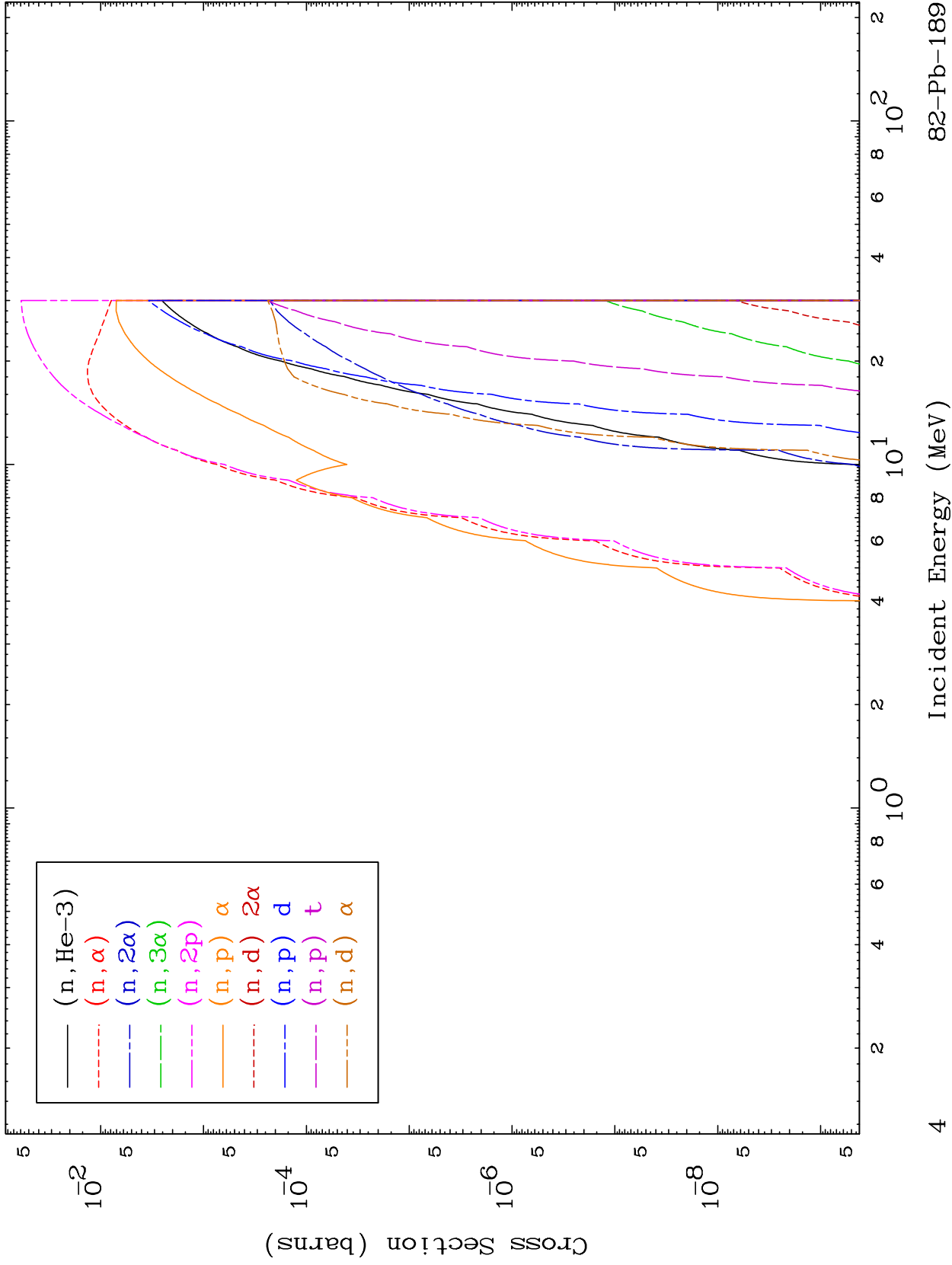
MAT 8180

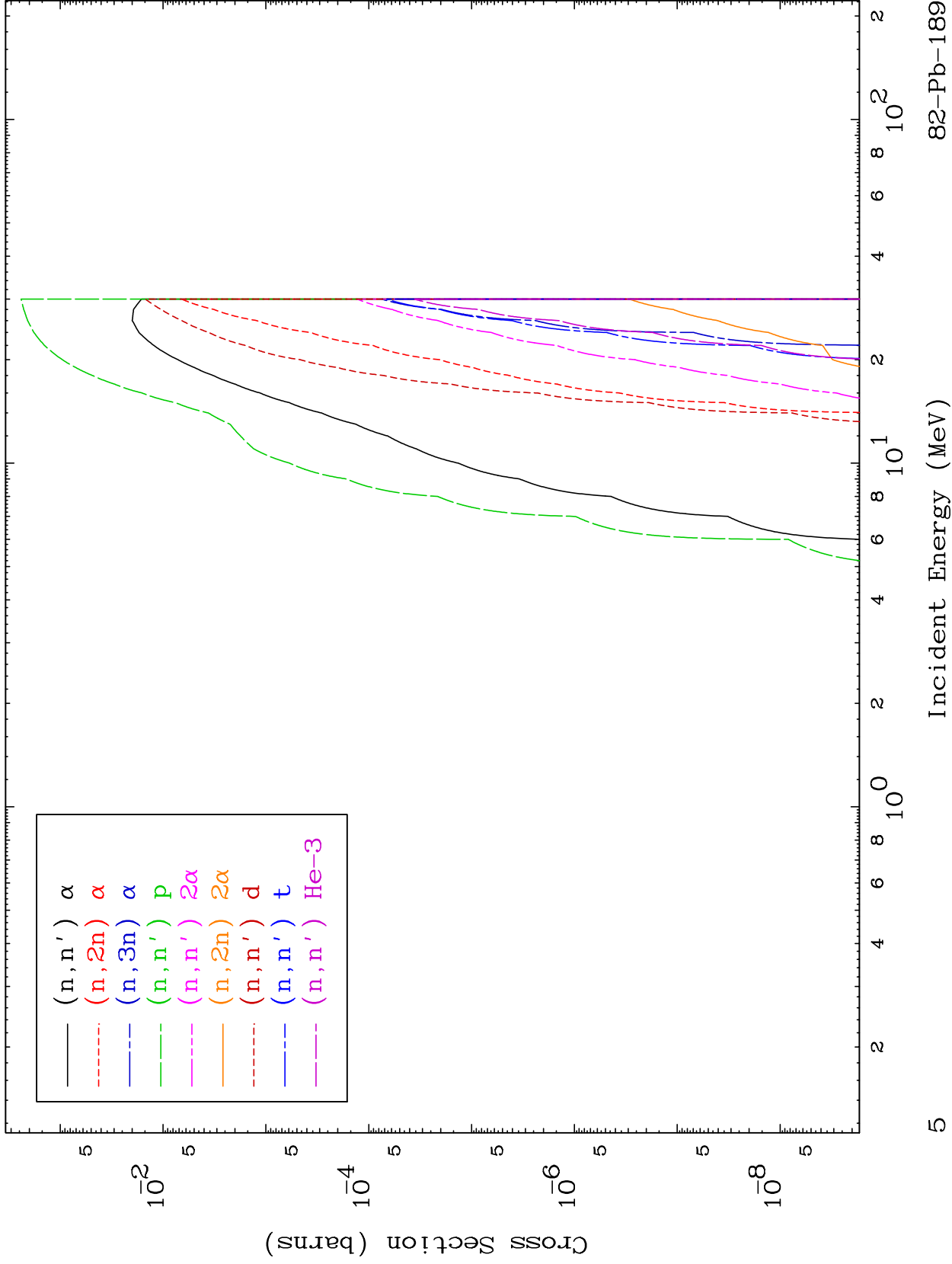
Deuteron Neutron Absorption  
0 Kelvin Cross Sections

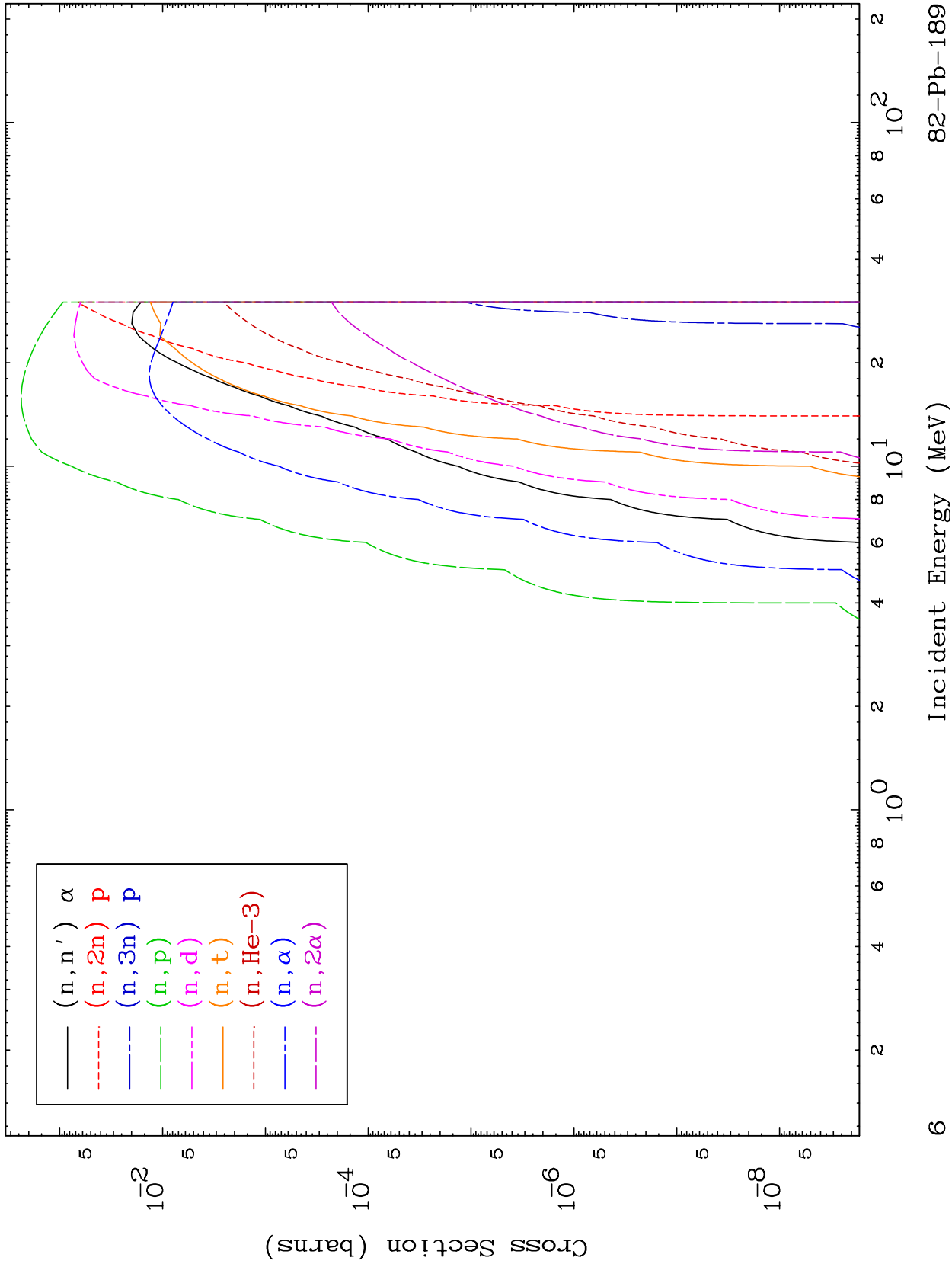
82-Pb-189

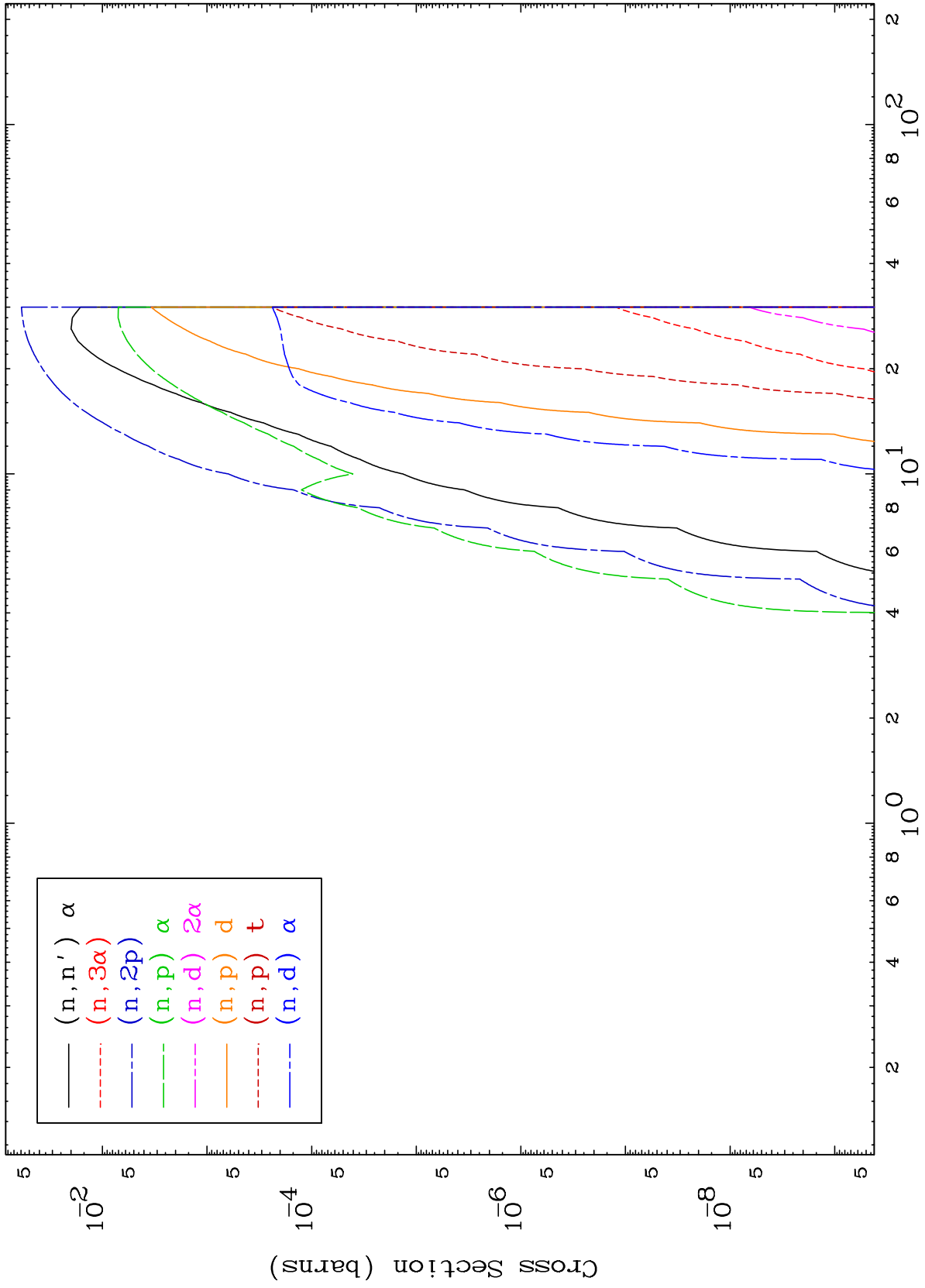












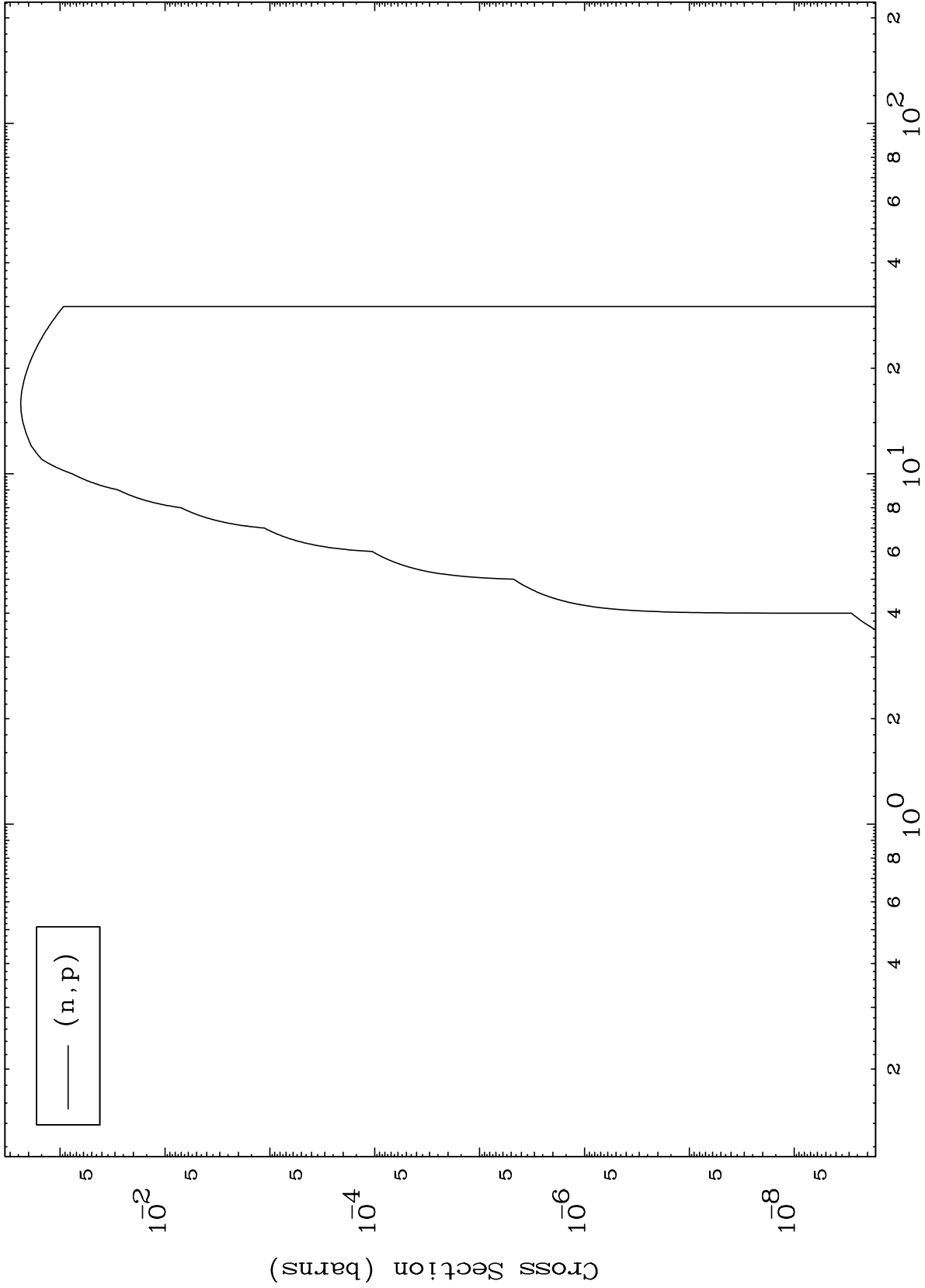


MAT 8180

(d,p) Levels

82-Pb-189

0 Kelvin Cross Sections

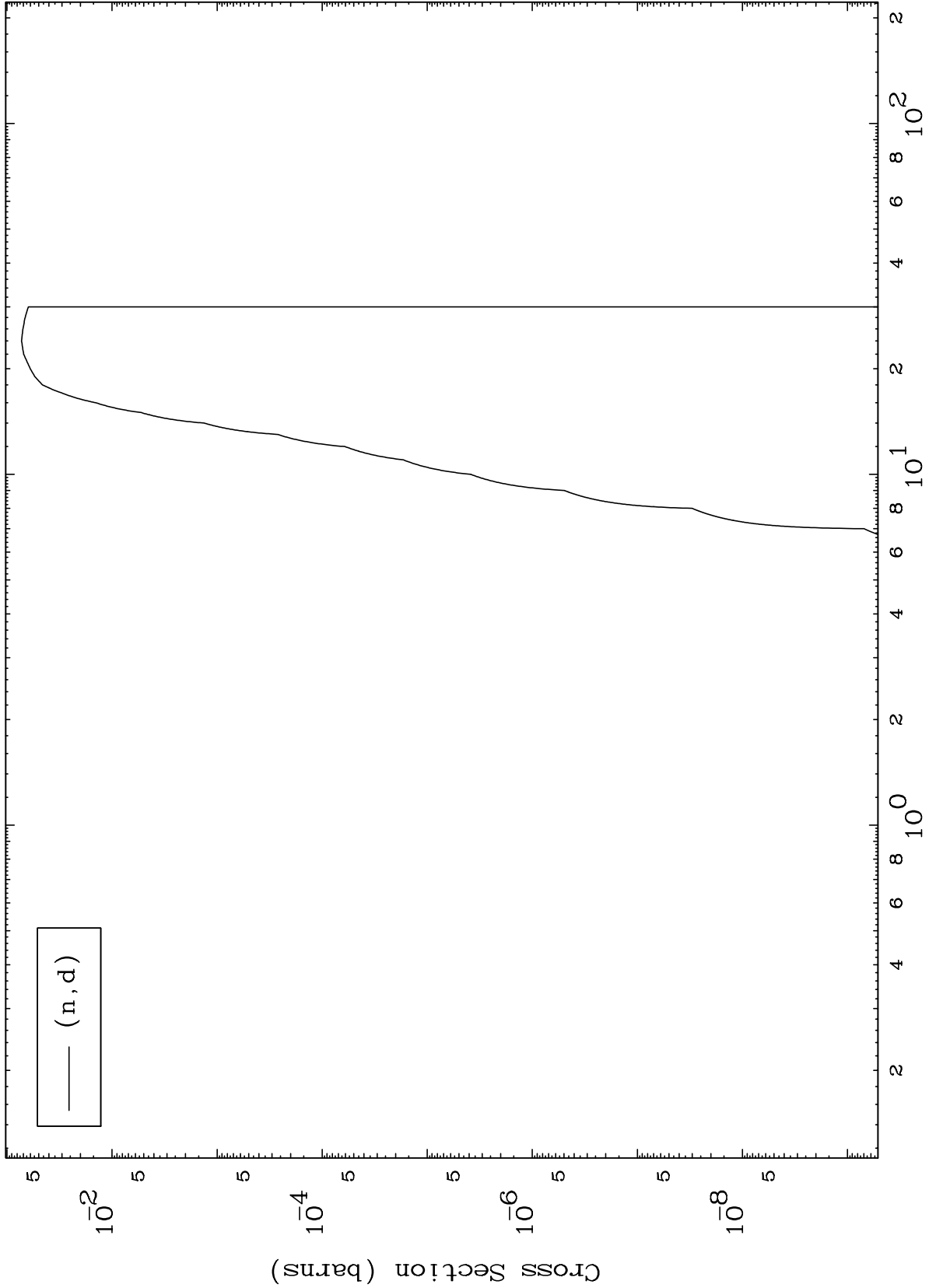


MAT 8180

(d,d) Levels

82-Pb-189

0 Kelvin Cross Sections

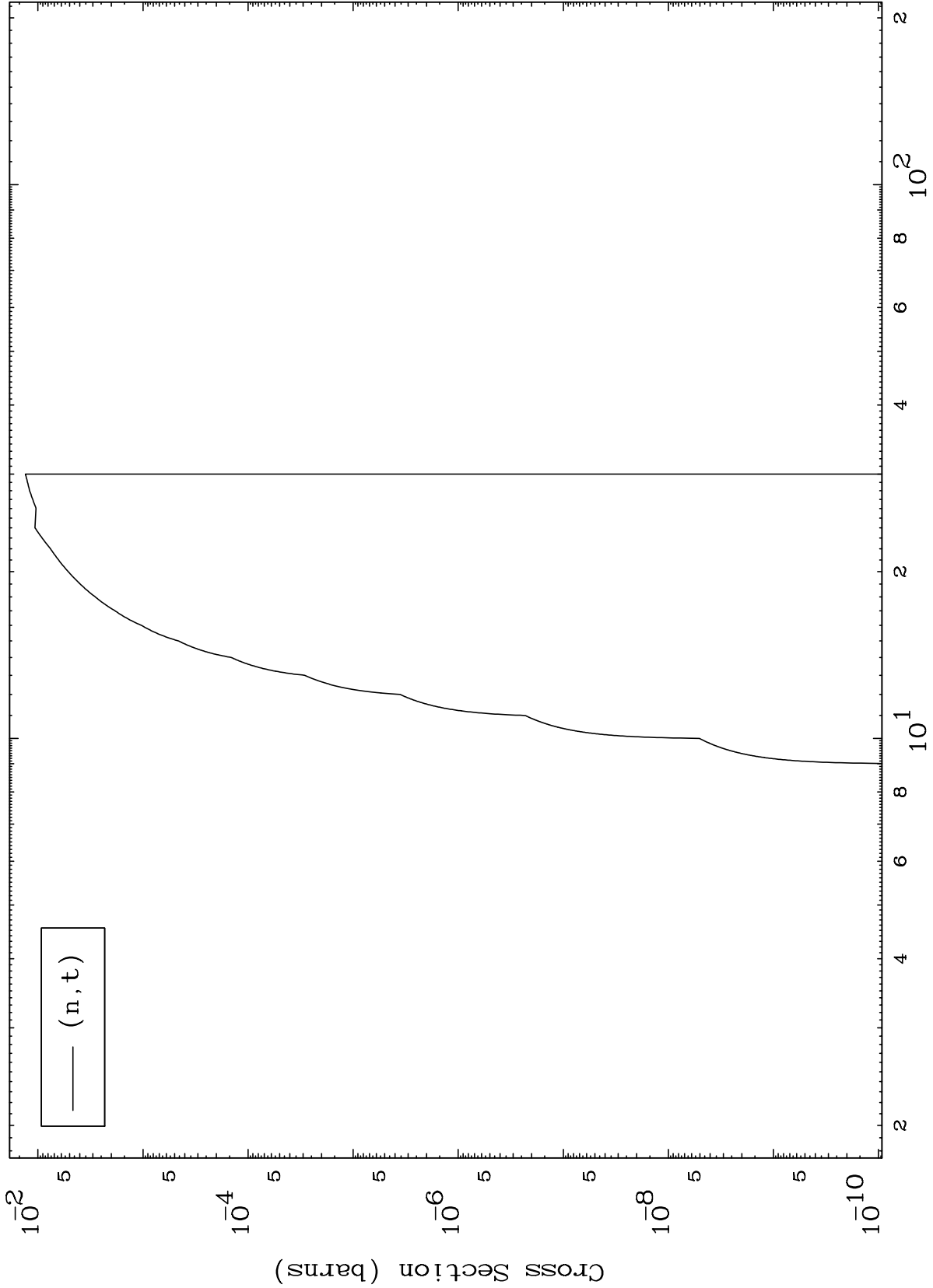


MAT 8180

(d,t) Levels

82-Pb-189

0 Kelvin Cross Sections



10

Incident Energy (MeV)

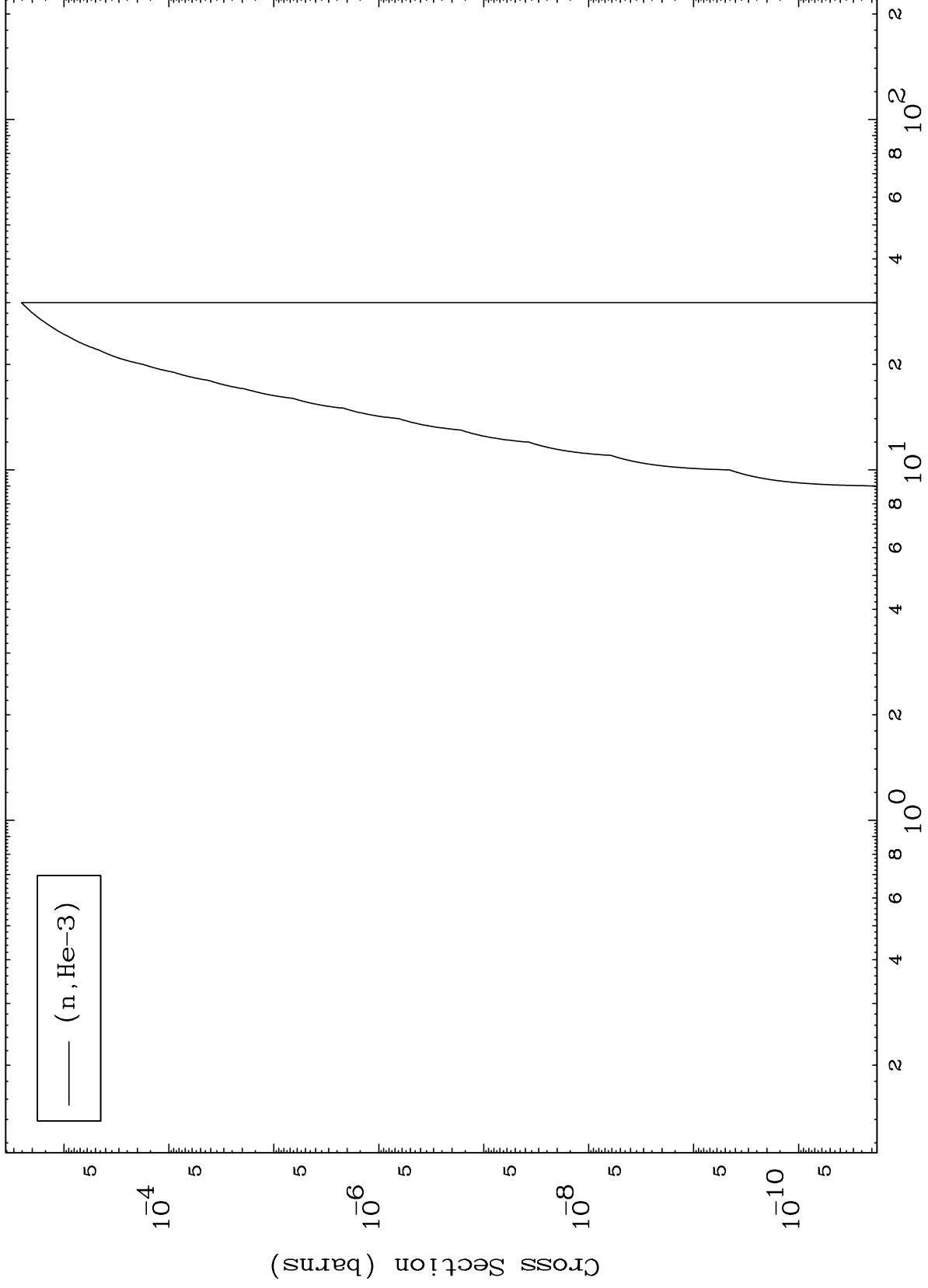
82-Pb-189

MAT 8180

(d,He3) Levels

82-Pb-189

0 Kelvin Cross Sections

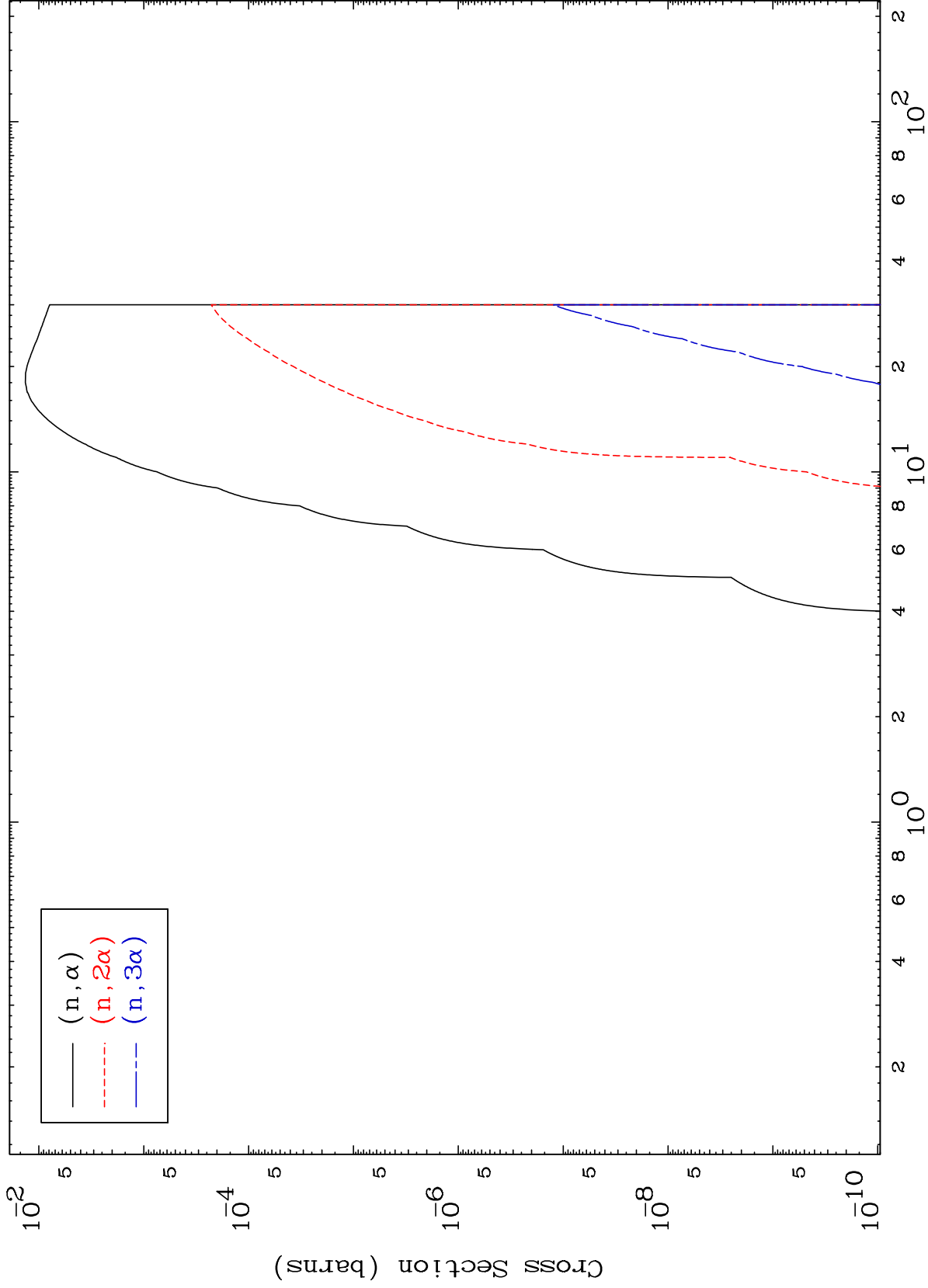


MAT 8180

(d,  $\alpha$ ) Levels

82-Pb-189

0 Kelvin Cross Sections



12

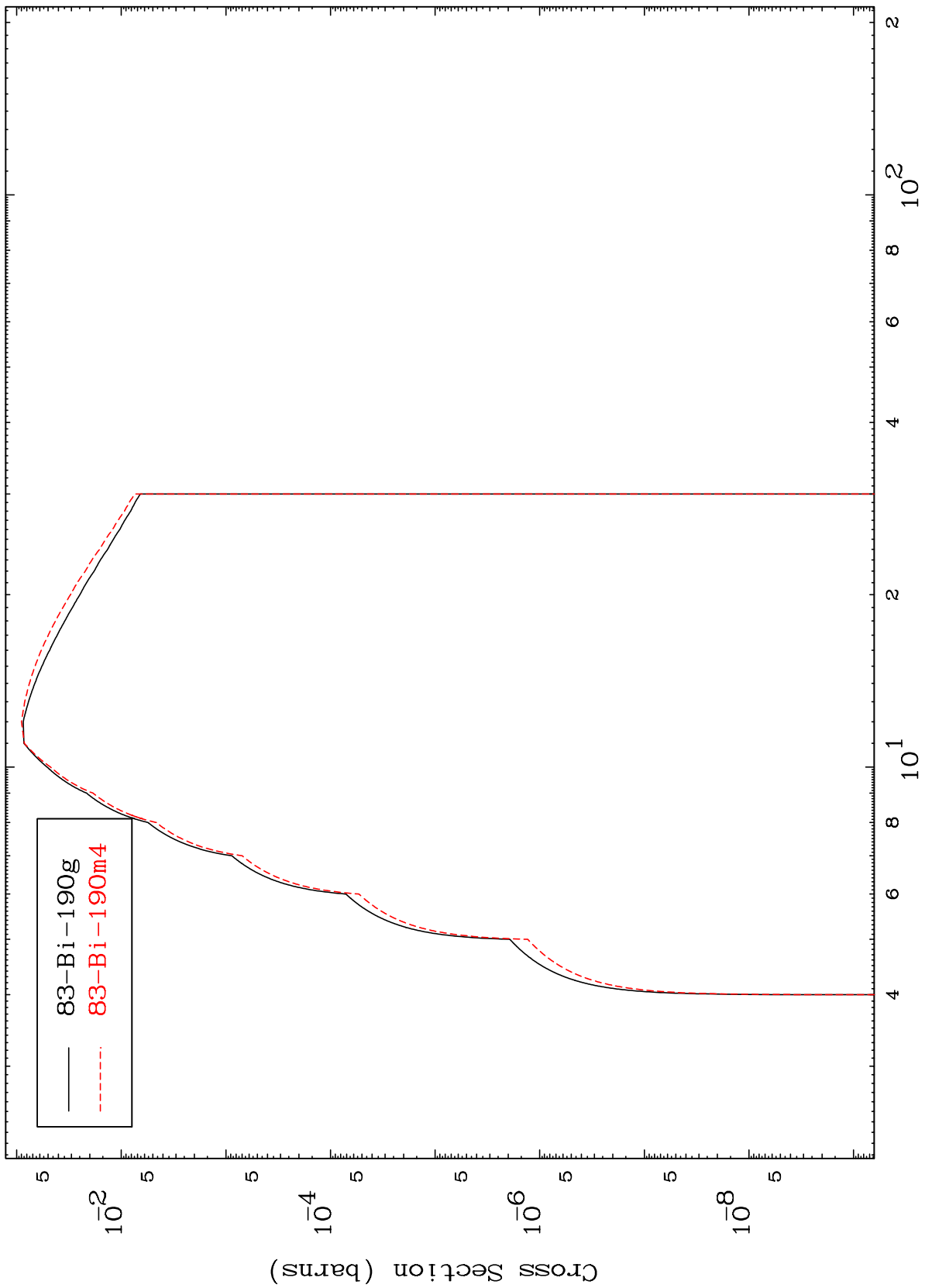
Incident Energy (MeV)

82-Pb-189

MAT 8180

82-Pb-189

### Radionuclide Production Cross Section

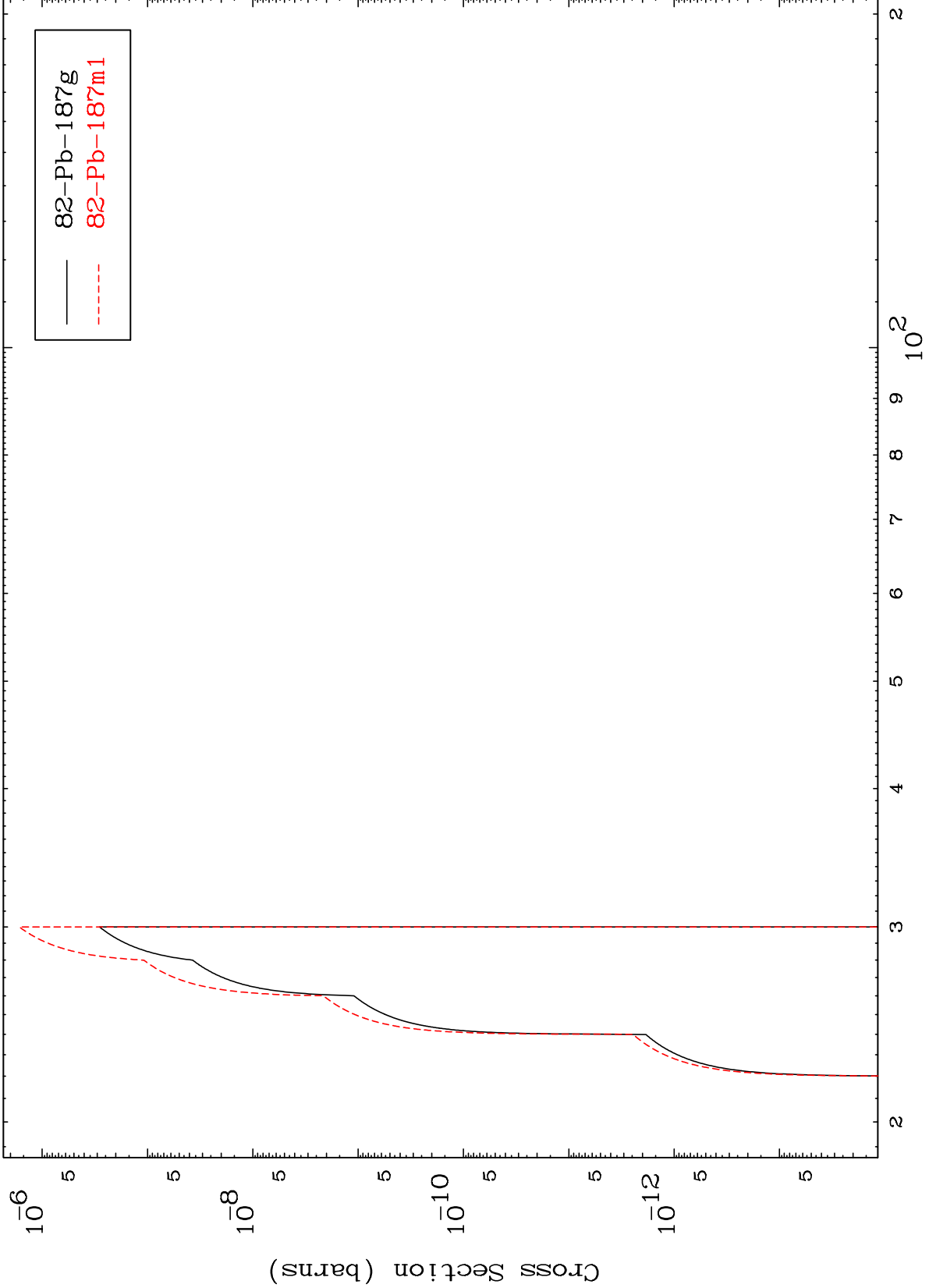


MAT 8180

(n,2n) d

82-Pb-189

Radionuclide Production Cross Section



14

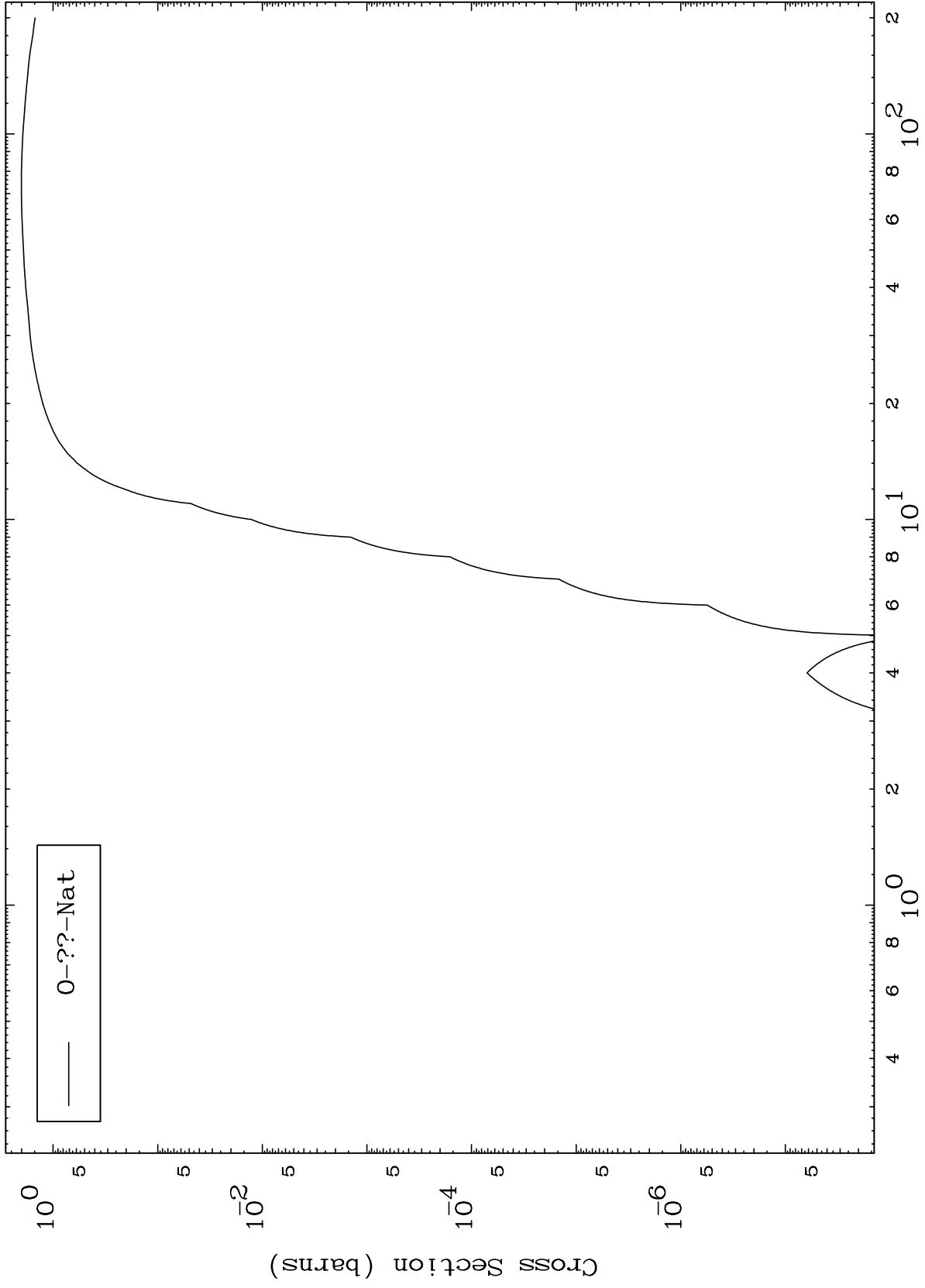
Incident Energy (MeV)

82-Pb-189

MAT 8180

82-Pb-189

Fission  
Radionuclide Production Cross Section



15

82-Pb-189

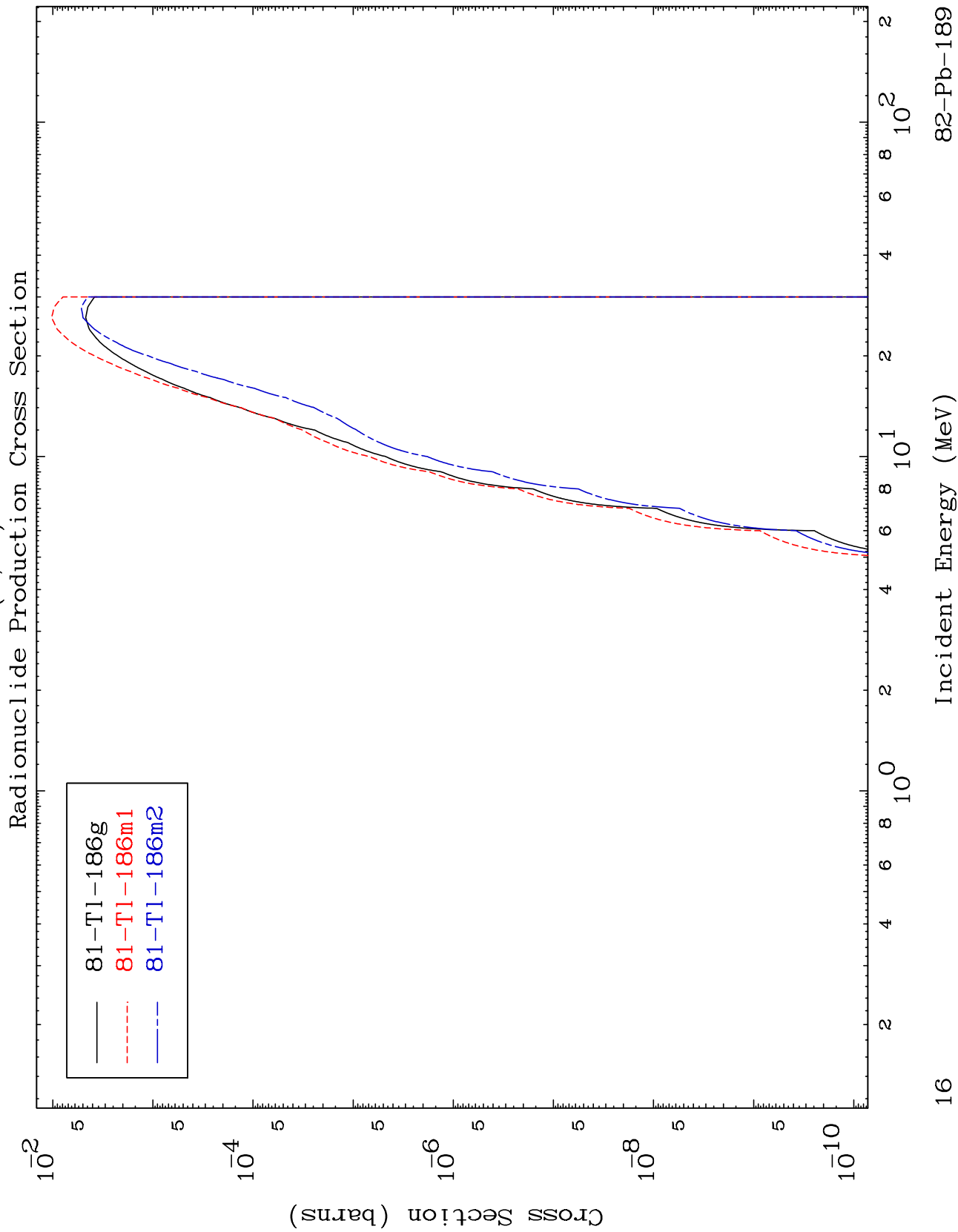
Incident Energy (MeV)



MAT 8180

$(n, n') \alpha$

82-Pb-189



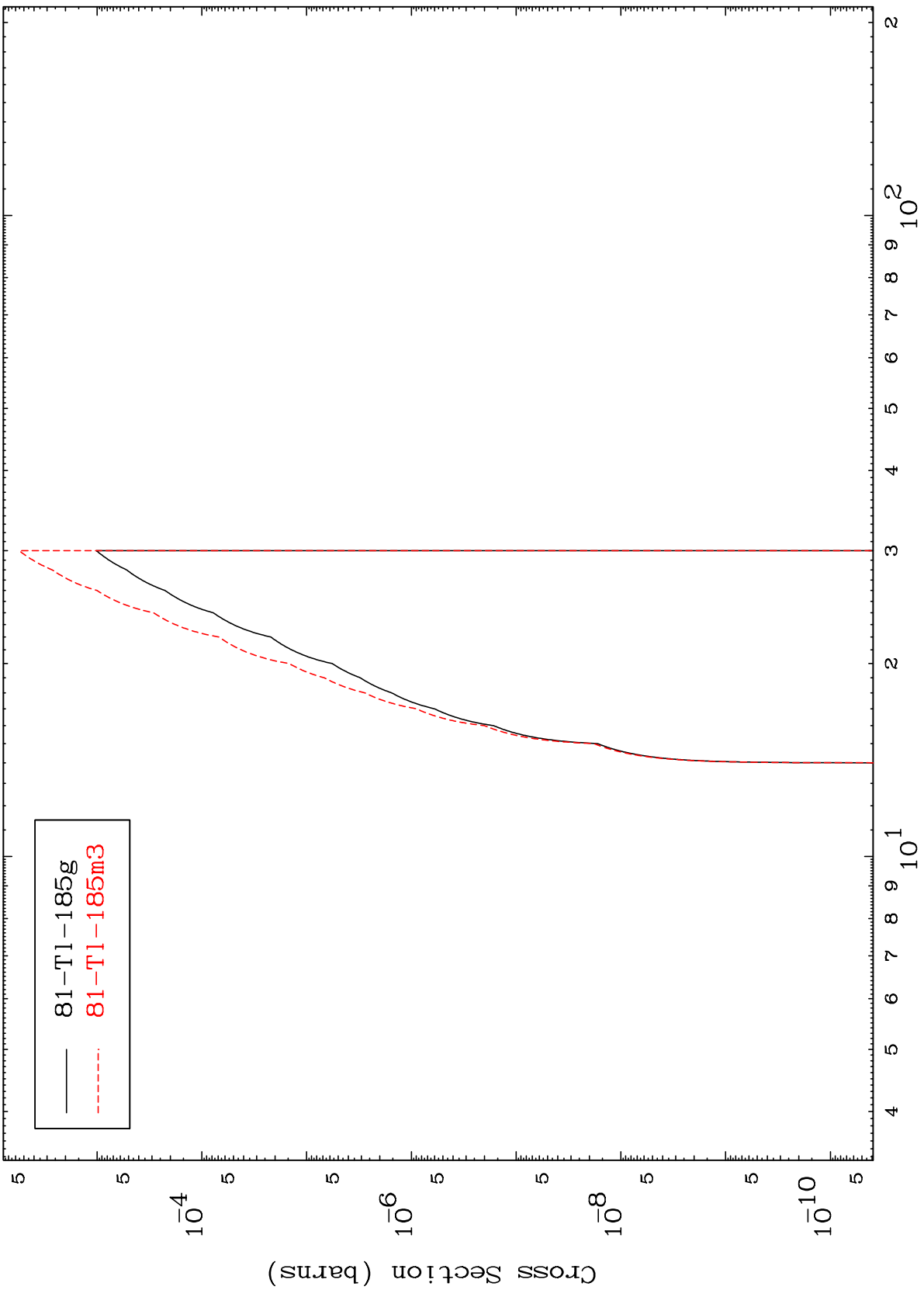
81-Tl-186g  
81-Tl-186m1  
81-Tl-186m2

MAT 8180

$(n,2n) \alpha$

82-Pb-189

Radionuclide Production Cross Section



17

Incident Energy (MeV)

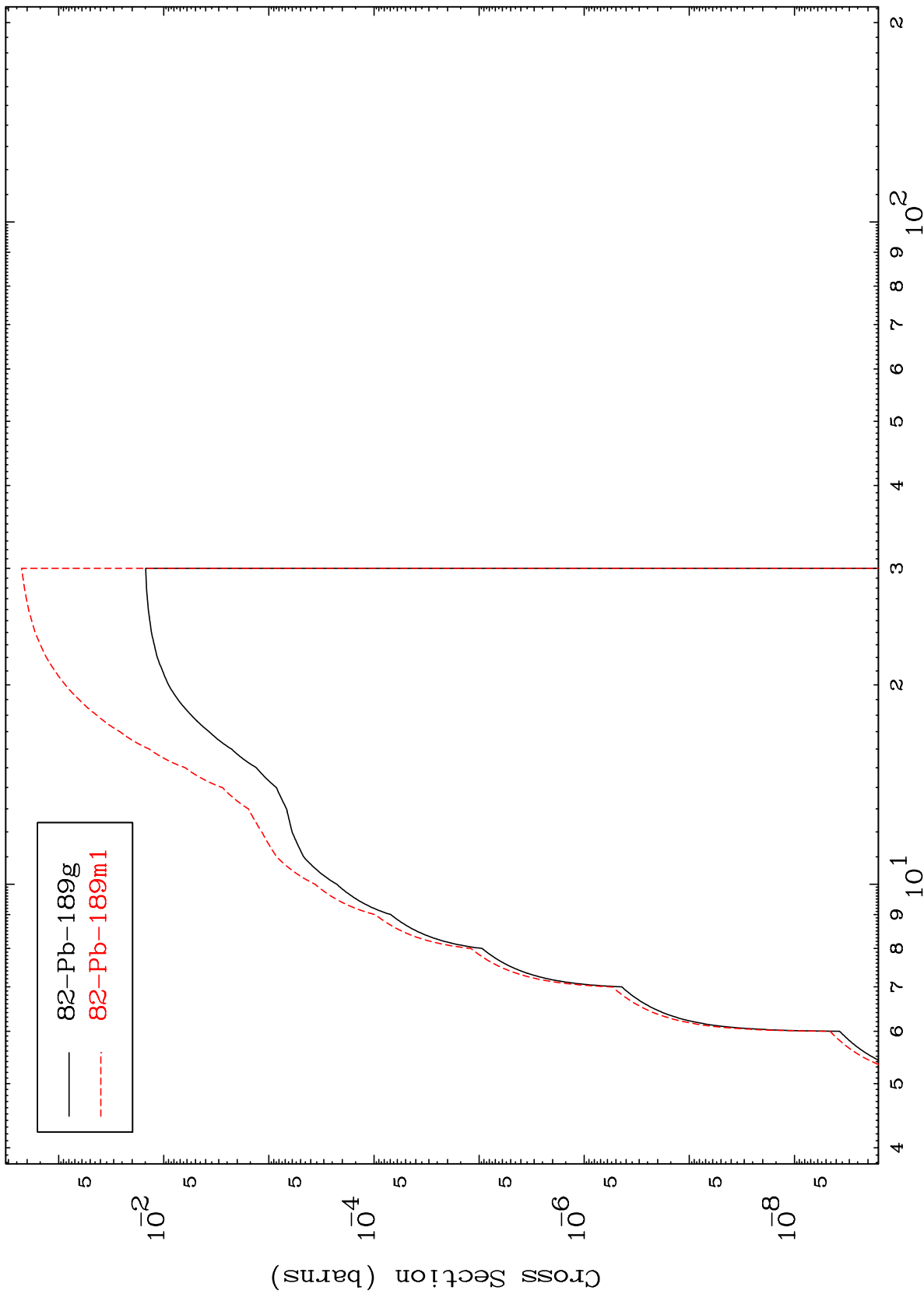
82-Pb-189

MAT 8180

(n,n') p

82-Pb-189

Radionuclide Production Cross Section

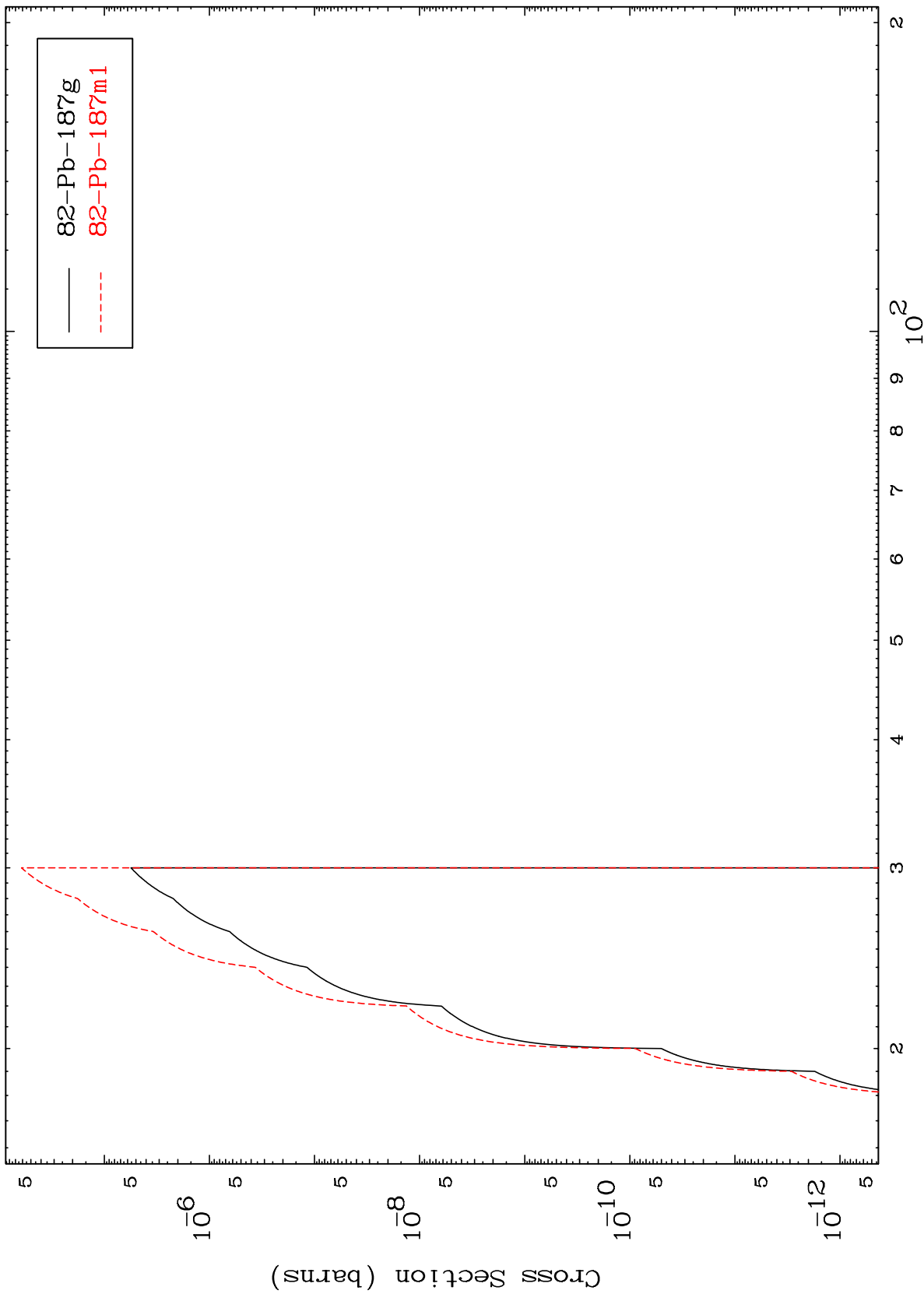


18

Incident Energy (MeV)

82-Pb-189

Radionuclide Production Cross Section

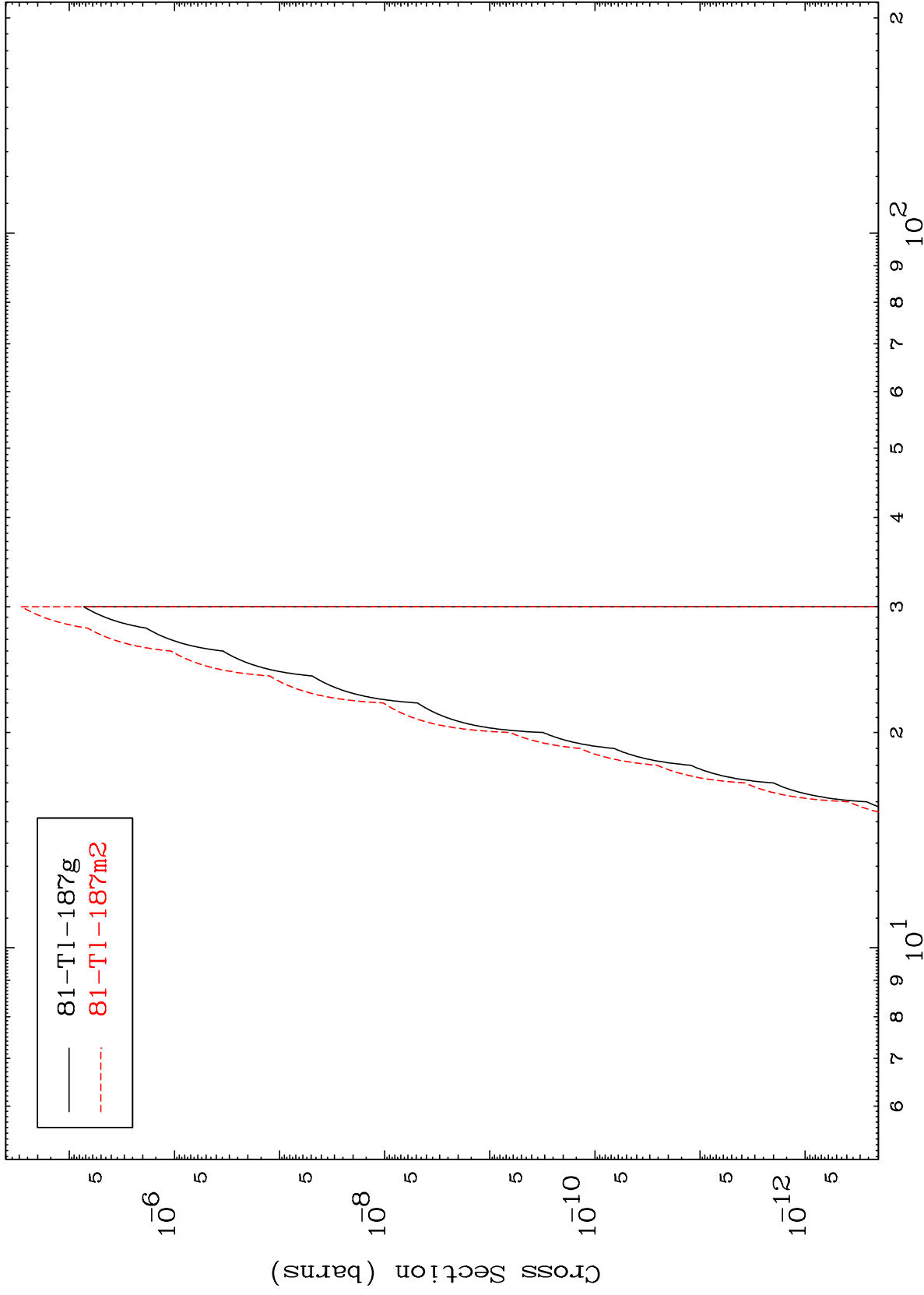


MAT 8180

(n,n') He-3

82-Pb-189

Radionuclide Production Cross Section



20

Incident Energy (MeV)

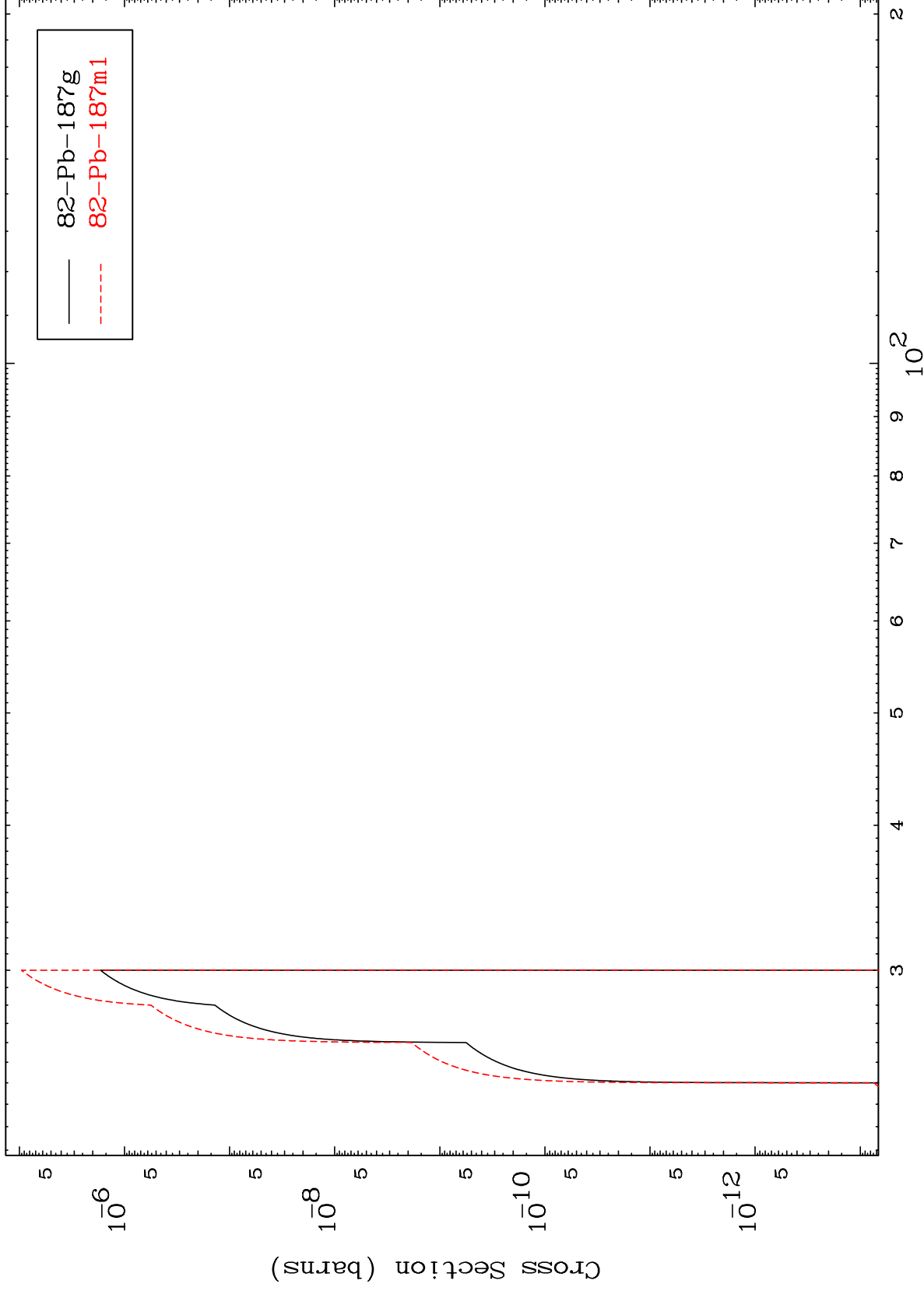
82-Pb-189

MAT 8180

(n,3n) p

82-Pb-189

Radionuclide Production Cross Section



21

Incident Energy (MeV)

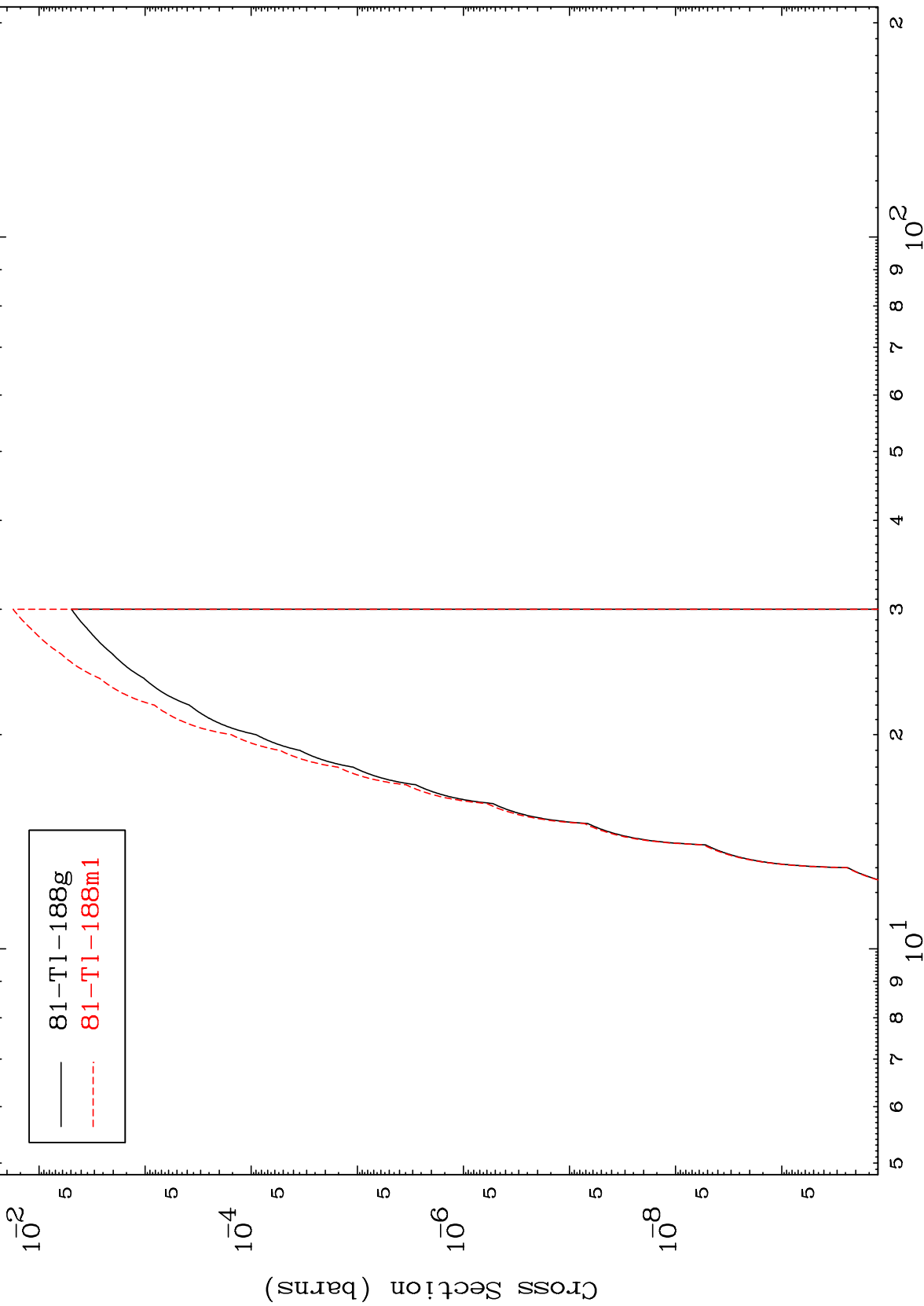
82-Pb-189

MAT 8180

(n,2n) p

82-Pb-189

Radionuclide Production Cross Section



81-Tl-188g  
81-Tl-188m1

22

Incident Energy (MeV)

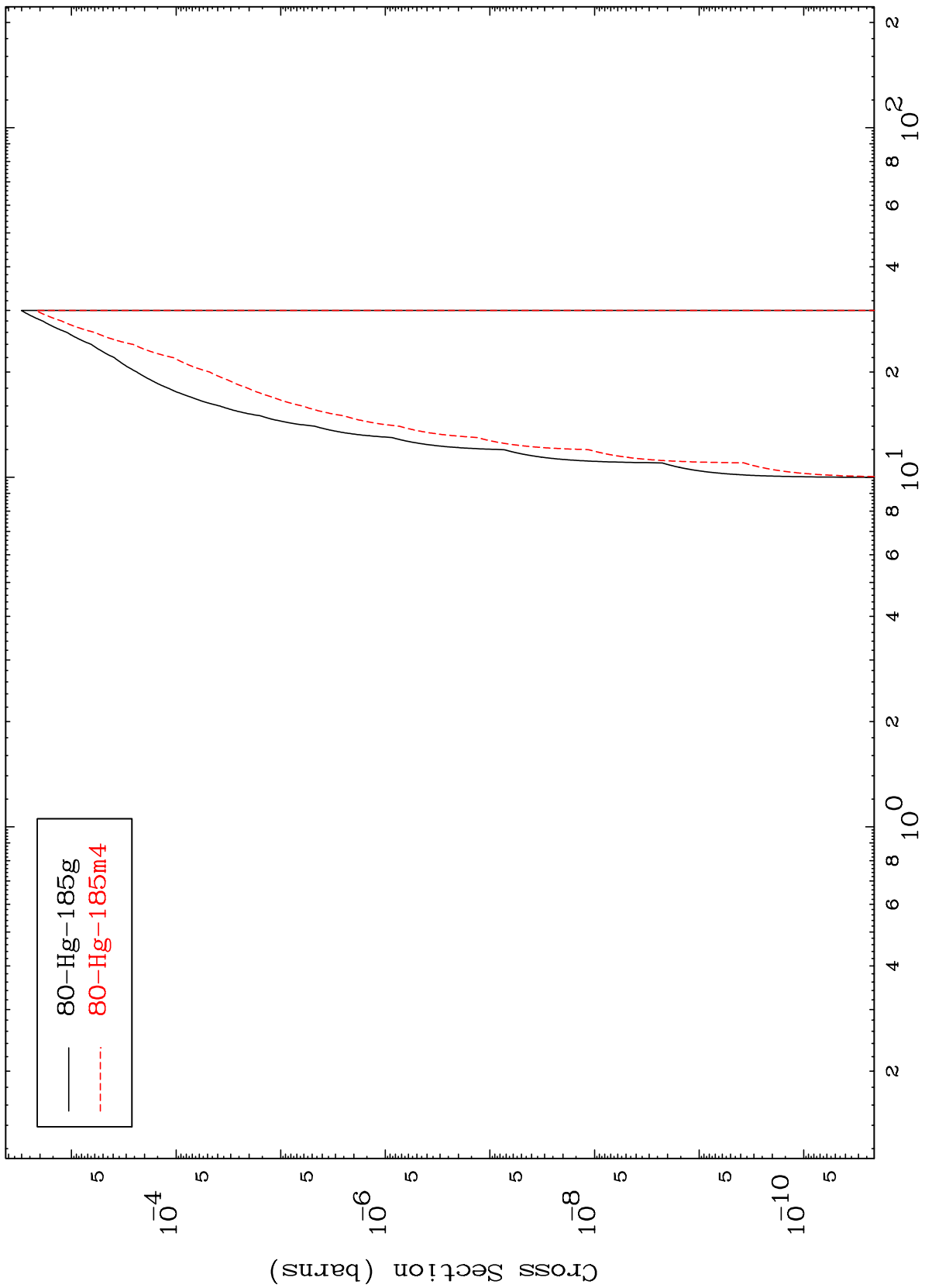
82-Pb-189

MAT 8180

(n,n') p  $\alpha$

82-Pb-189

Radionuclide Production Cross Section

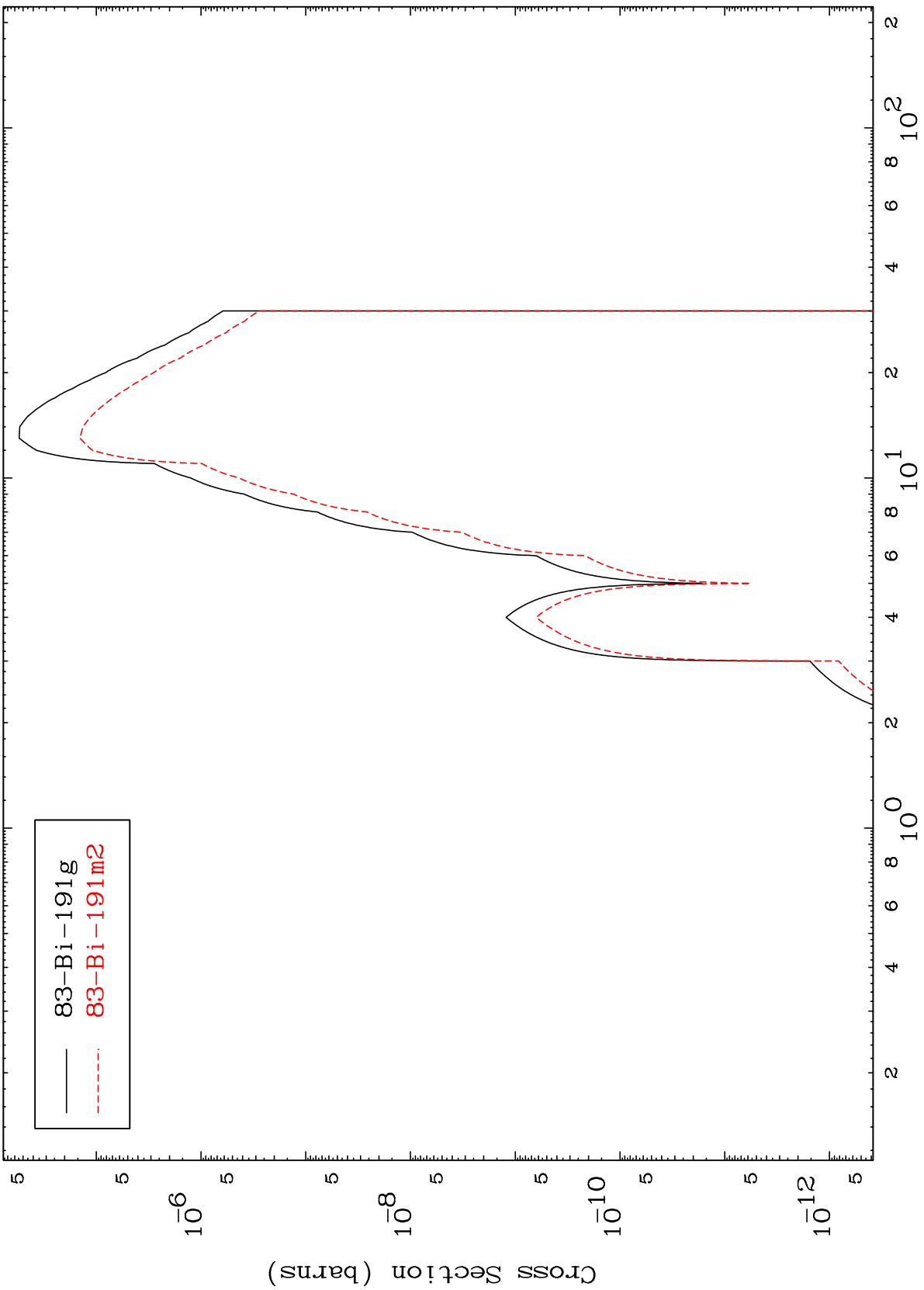




MAT 8180

82-Pb-189

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

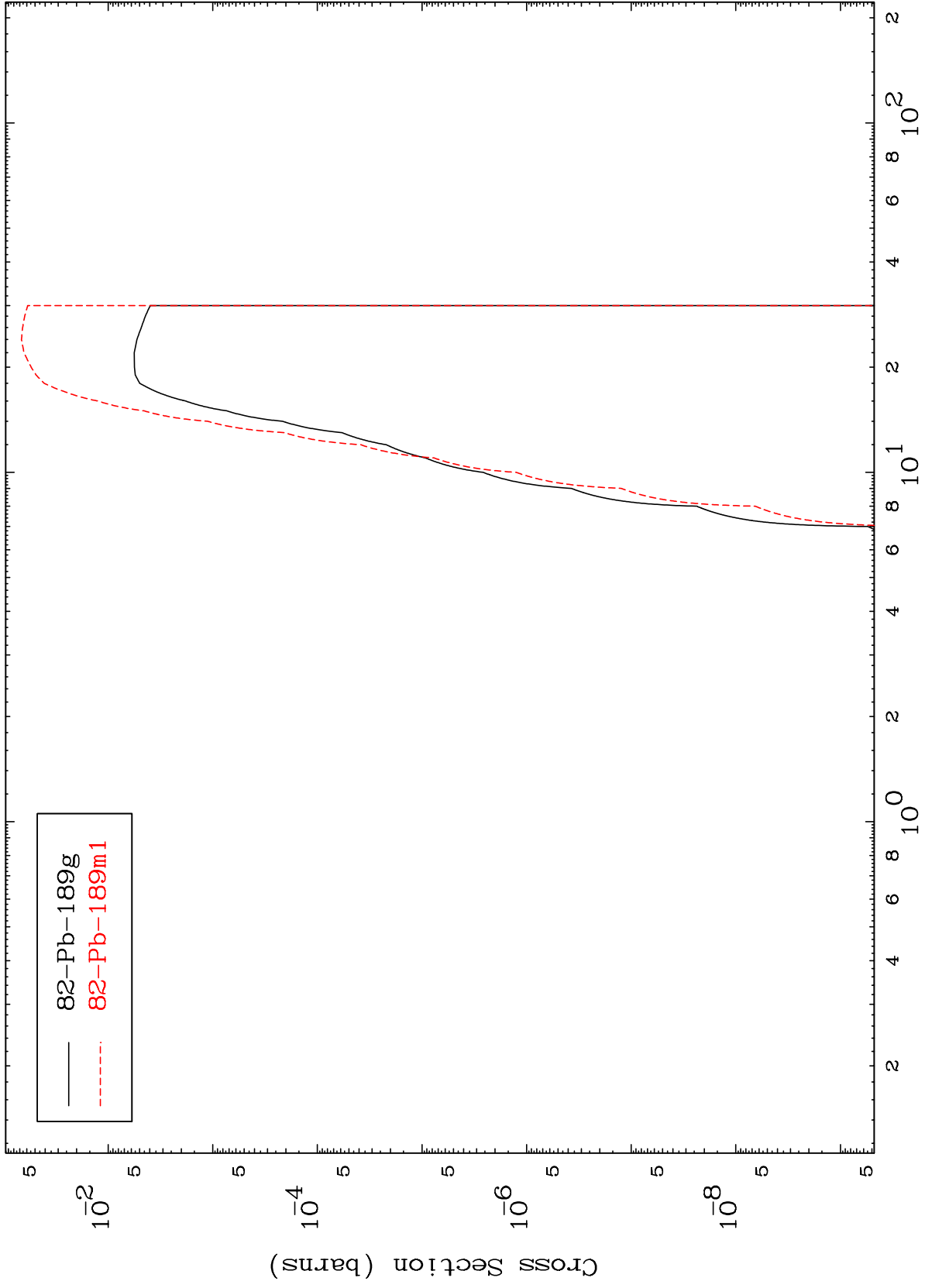


MAT 8180

(n,d)

82-Pb-189

Radionuclide Production Cross Section



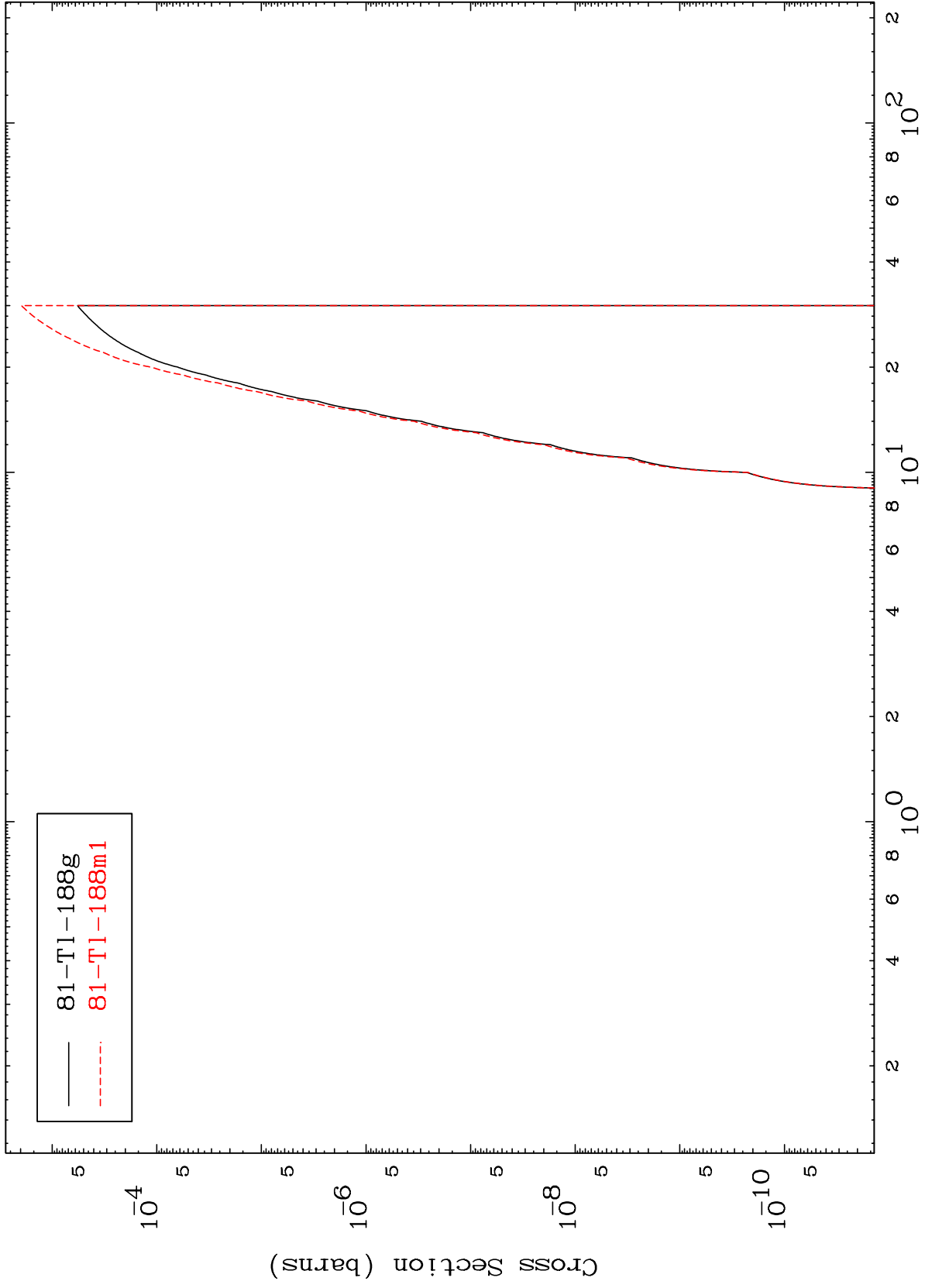
82-Pb-189g  
82-Pb-189m1

MAT 8180

(n,He-3)

82-Pb-189

Radionuclide Production Cross Section



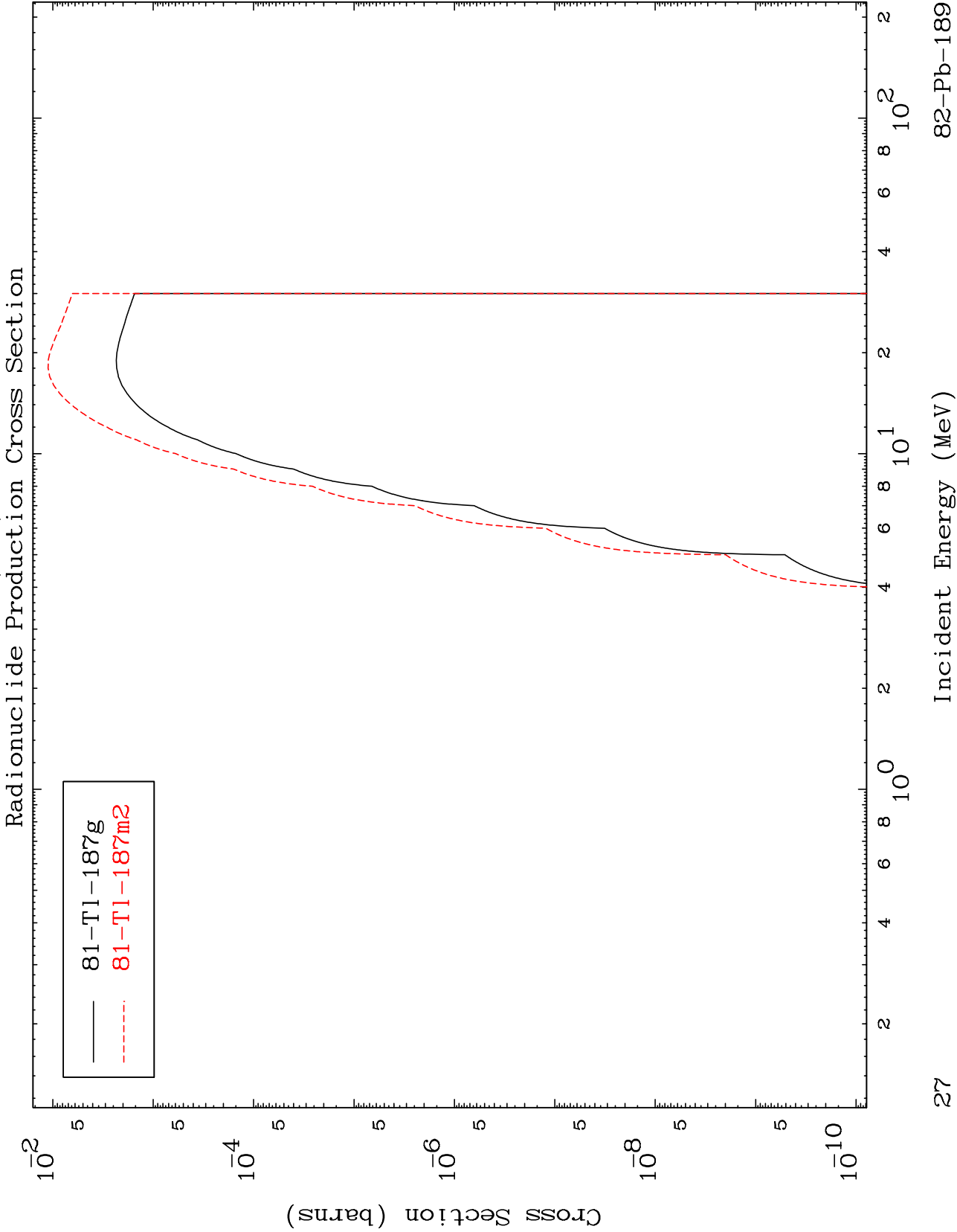
26

Incident Energy (MeV)

82-Pb-189

MAT 8180

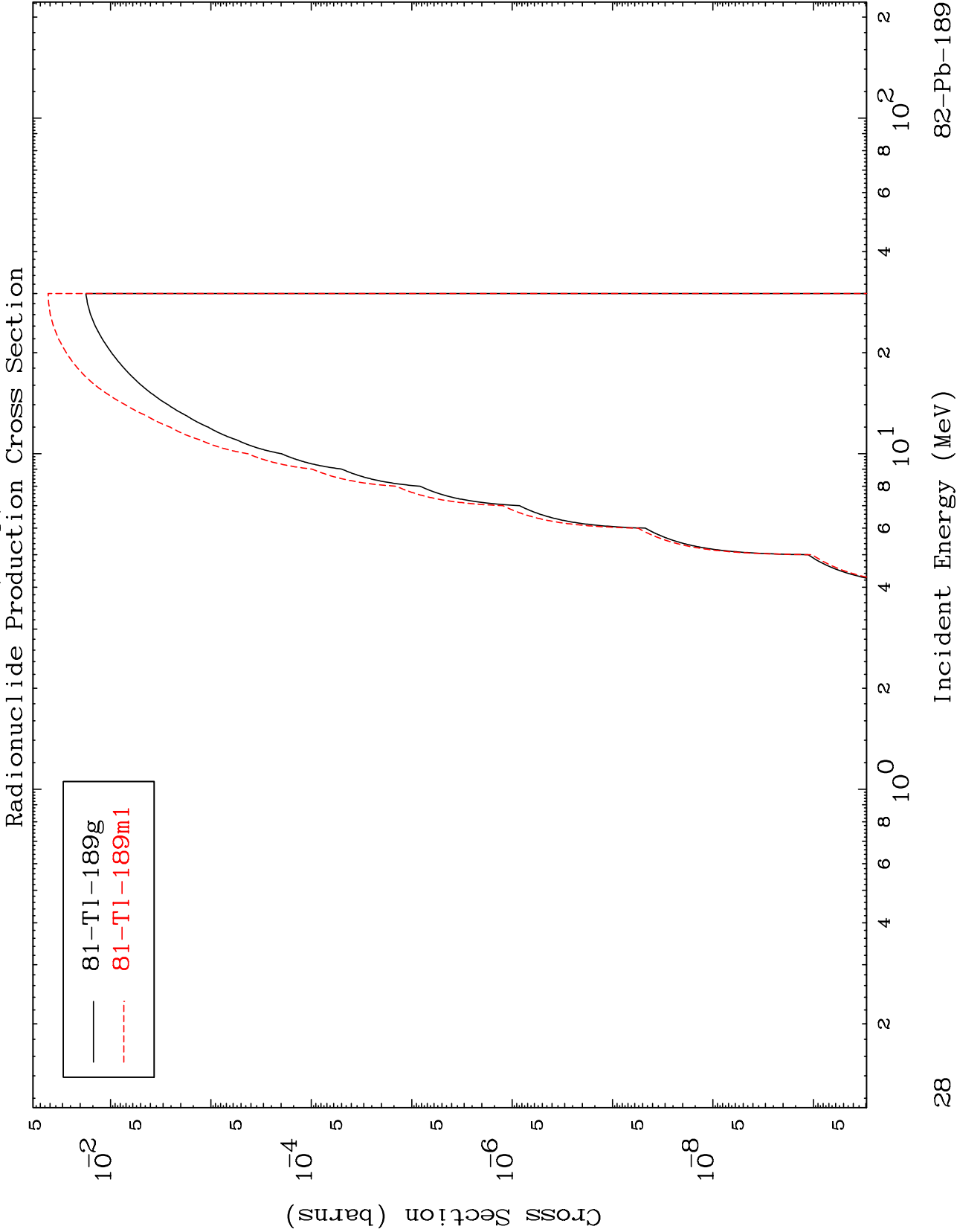
82-Pb-189



MAT 8180

(n,2p)

82-Pb-189



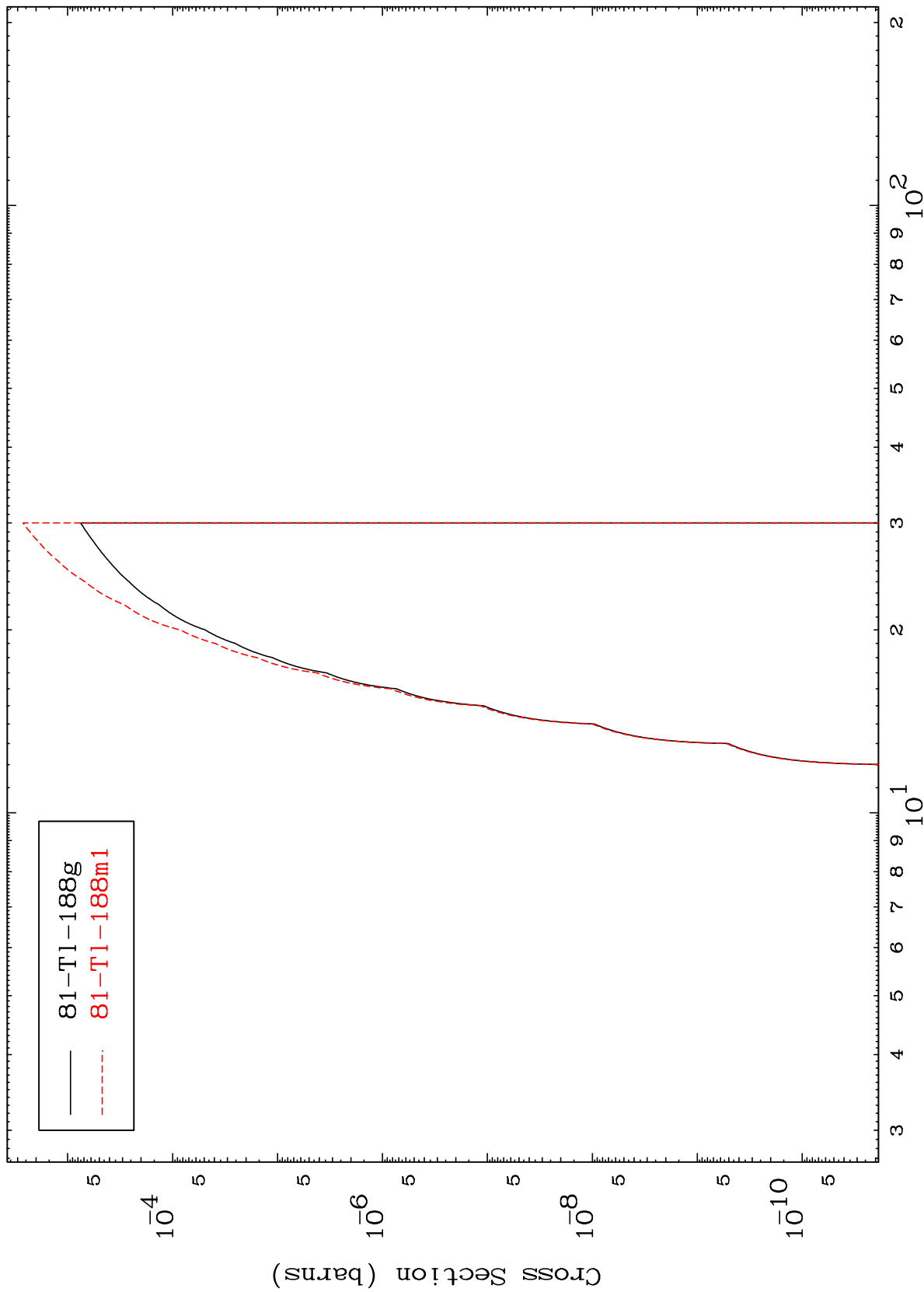
81-Tl-189g  
81-Tl-189m1

MAT 8180

(n,p) d

82-Pb-189

Radionuclide Production Cross Section



29

Incident Energy (MeV)

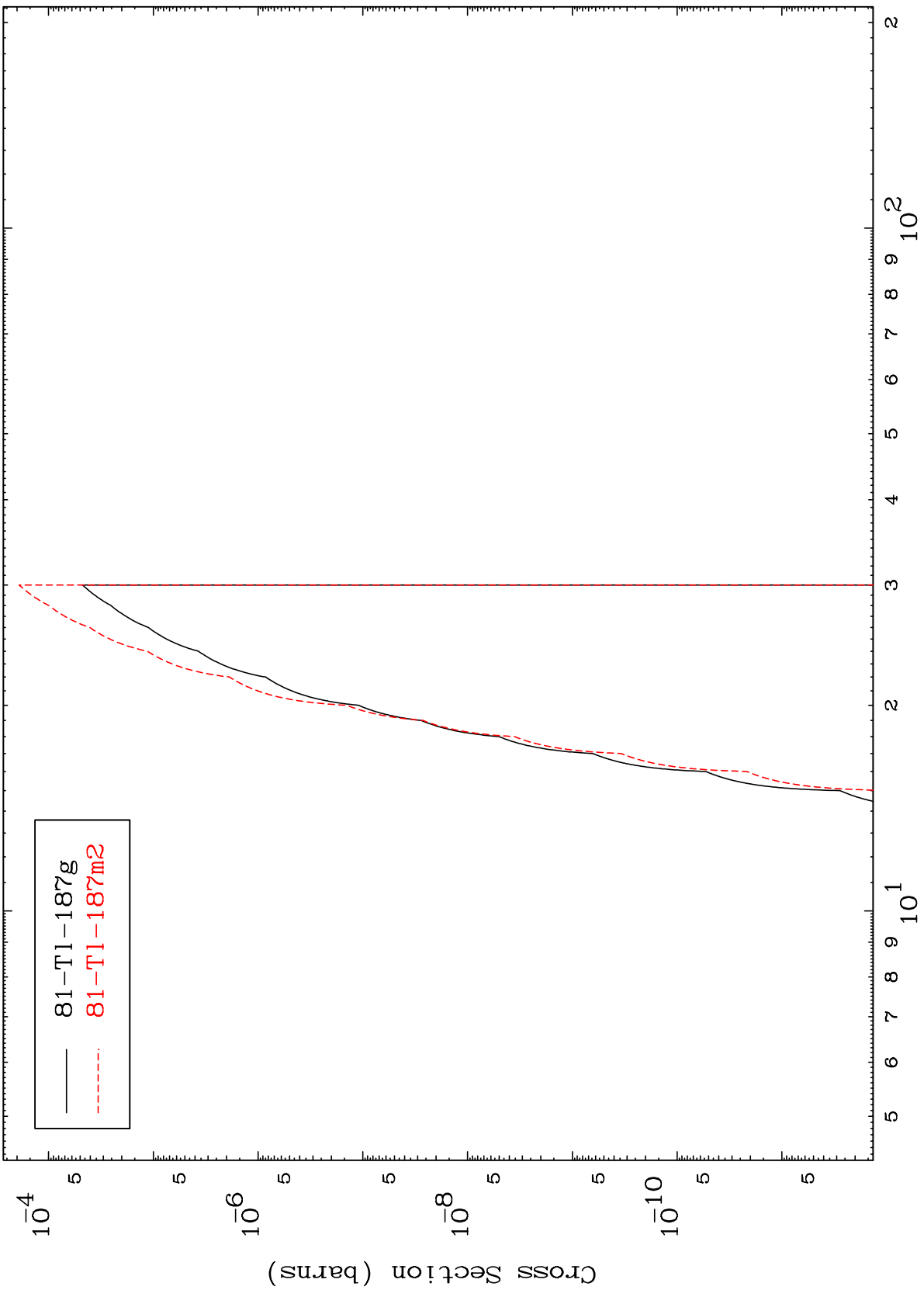
82-Pb-189

MAT 8180

(n,p) t

82-Pb-189

Radionuclide Production Cross Section



30

Incident Energy (MeV)

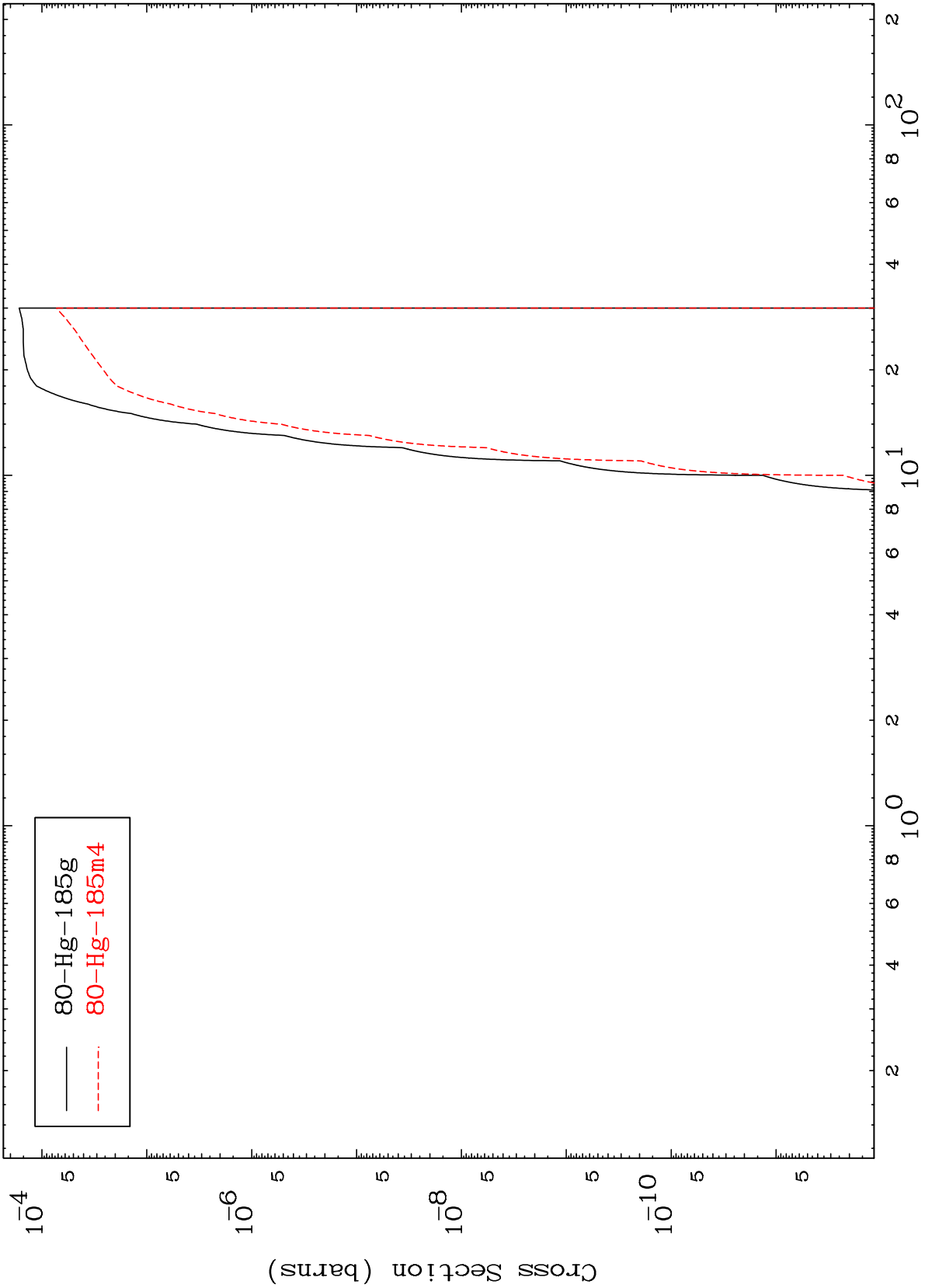
82-Pb-189

MAT 8180

(n,d)  $\alpha$

82-Pb-189

Radionuclide Production Cross Section



80-Hg-185g  
80-Hg-185m4