

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

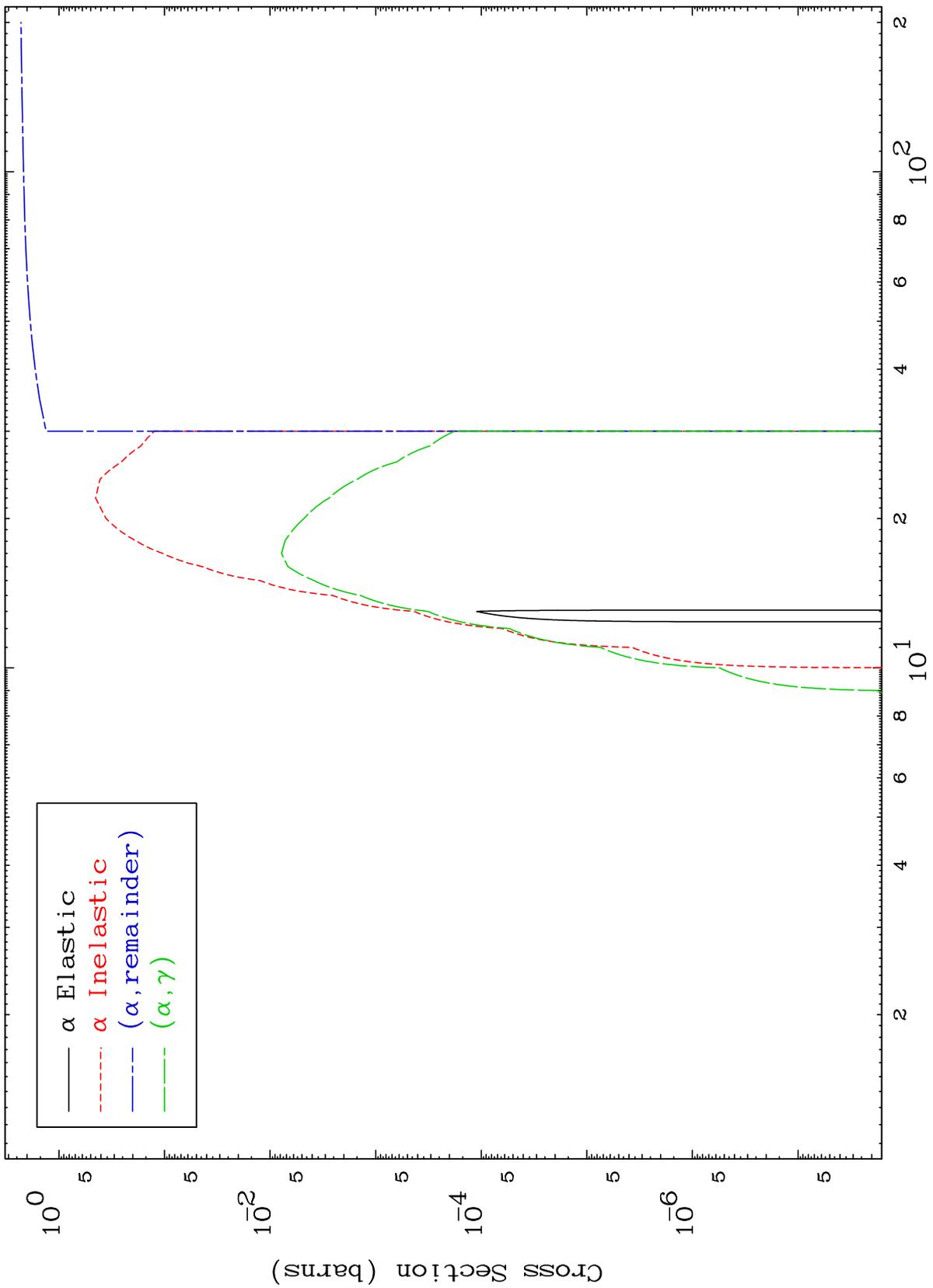
Press Mouse Button to Start

MAT 5810

α Major

58-Ce-131

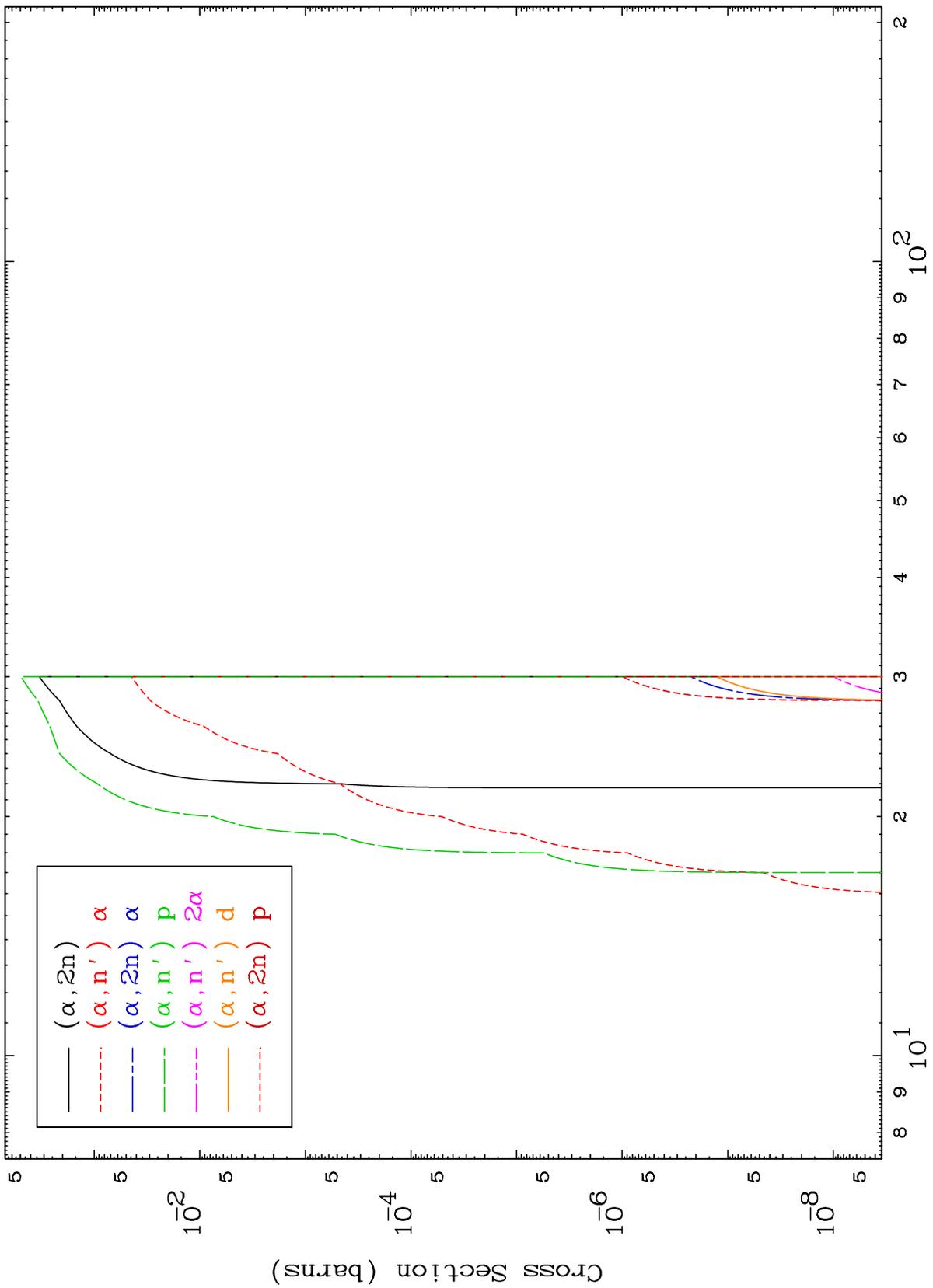
0 Kelvin Cross Sections



MAT 5810

α Neutron Production
0 Kelvin Cross Sections

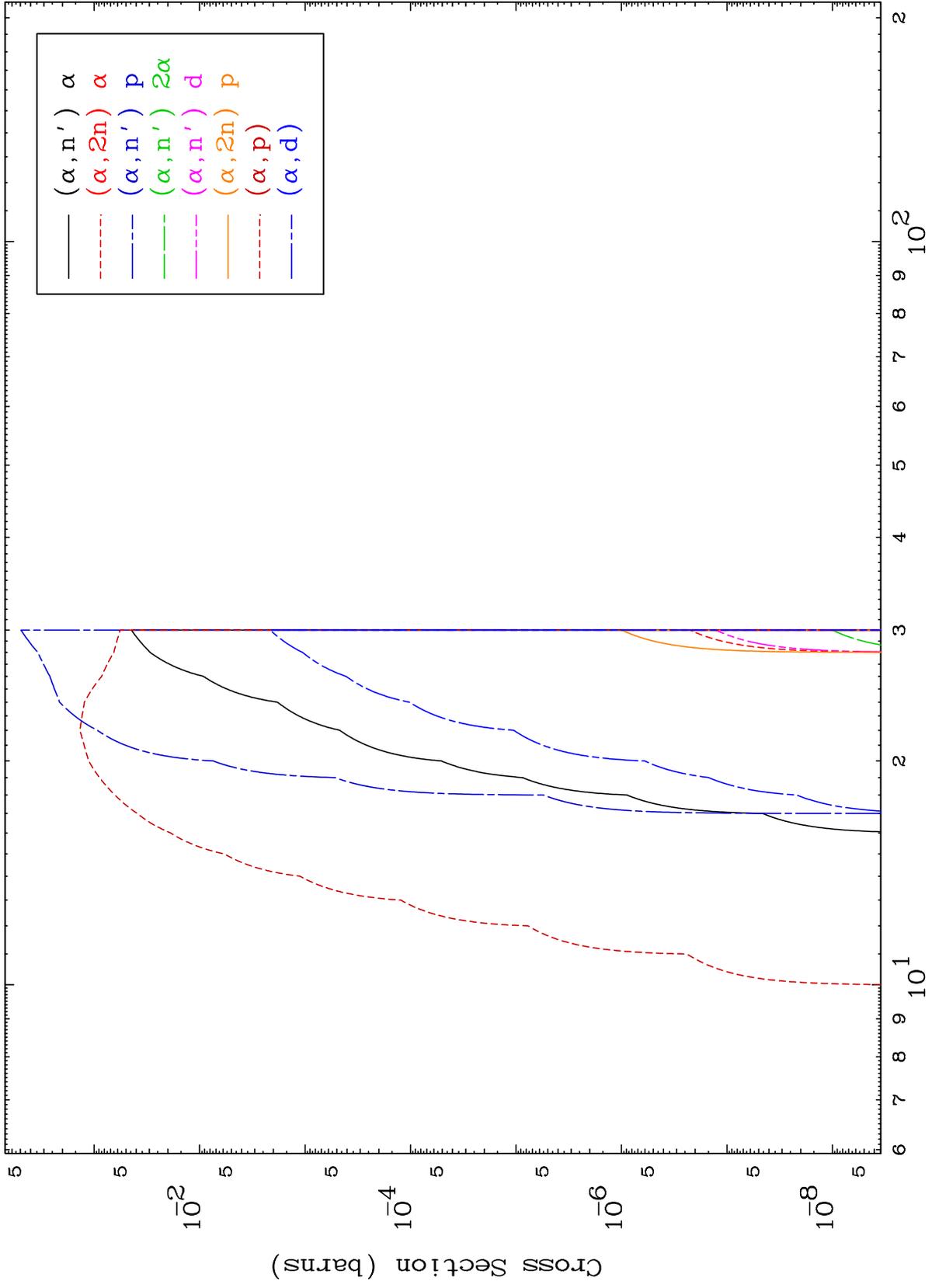
58-Ce-131



Incident Energy (MeV)

58-Ce-131

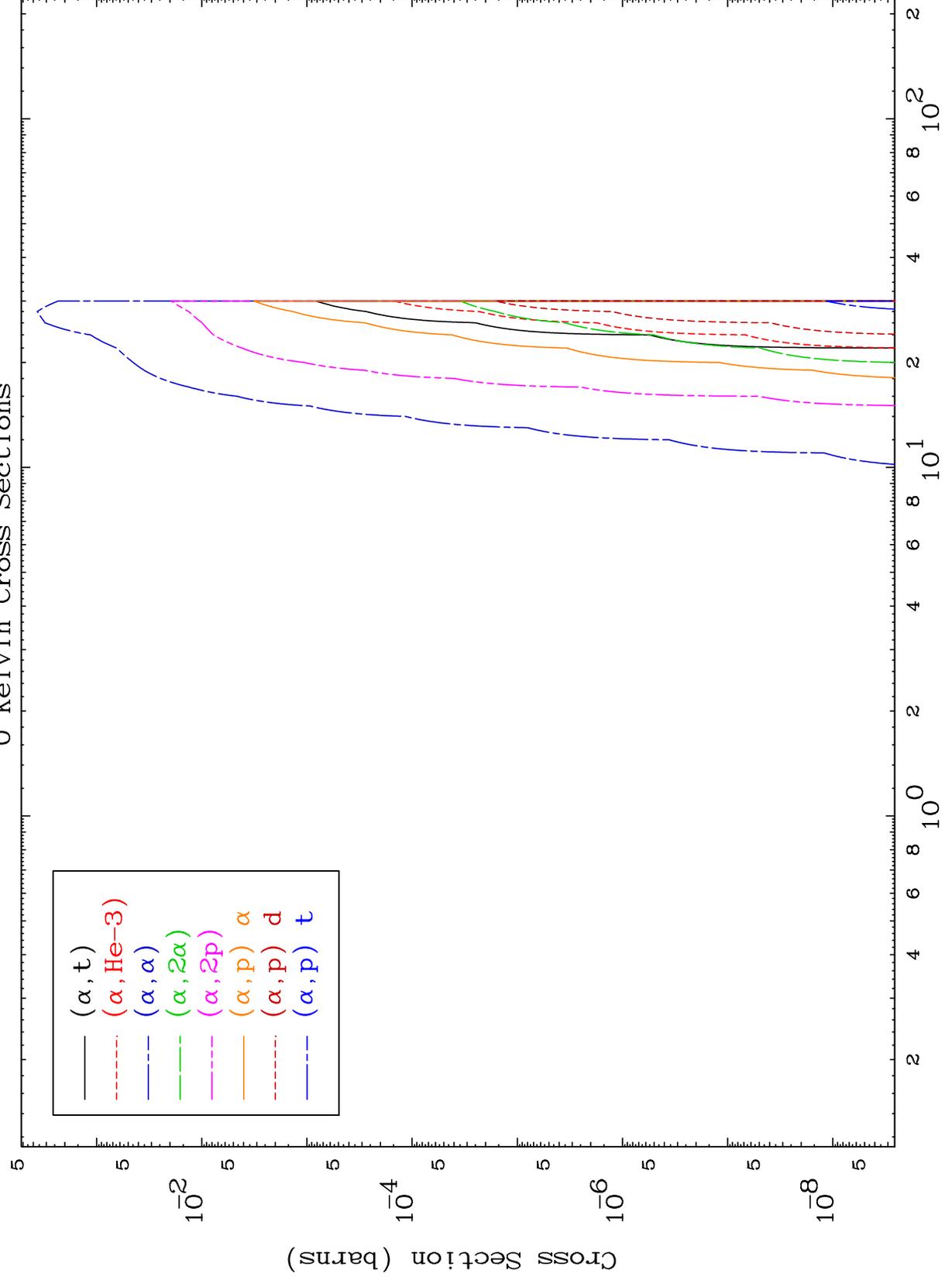
2



MAT 5810

α Charged Particle
0 Kelvin Cross Sections

58-Ce-131

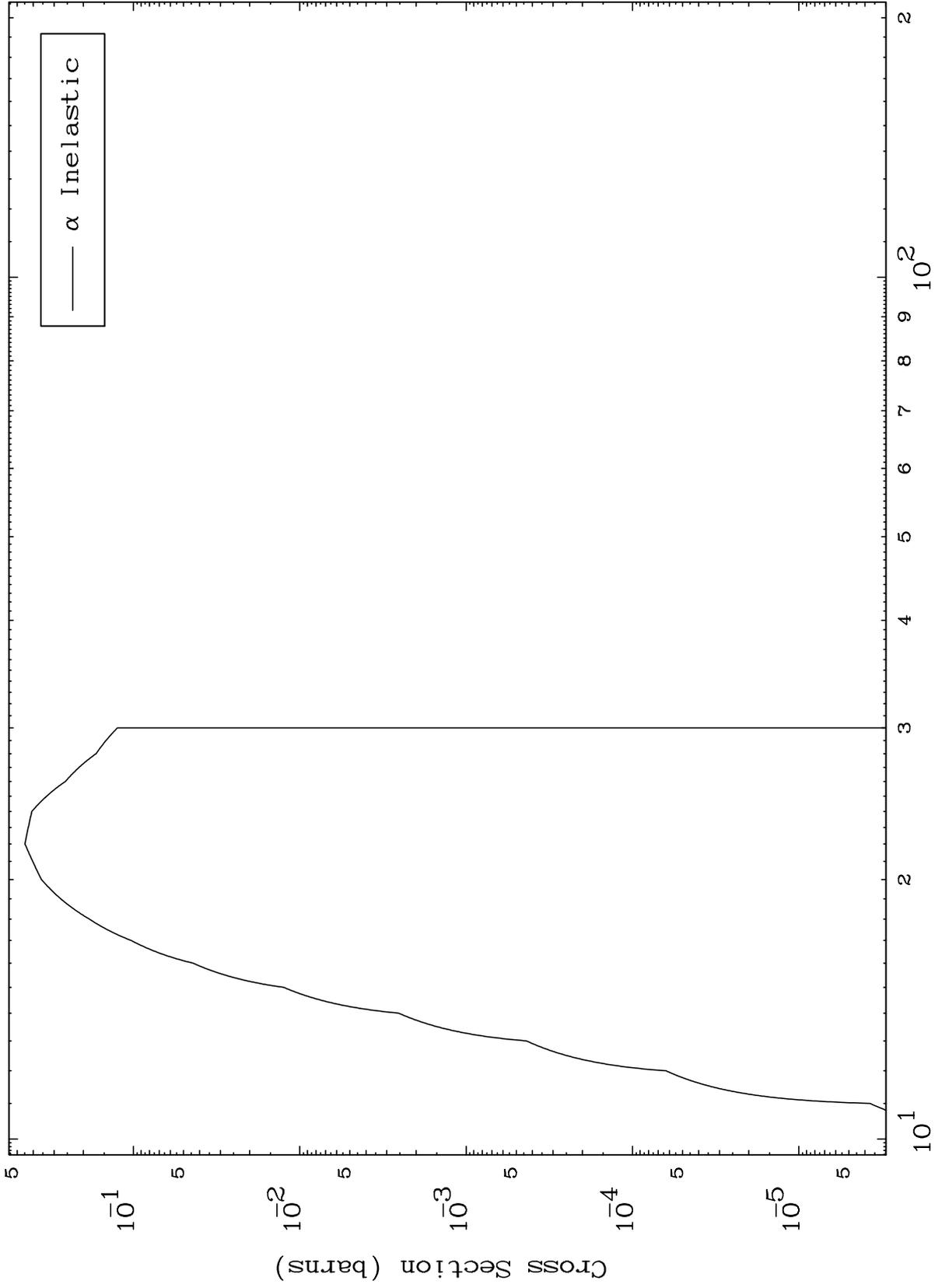


MAT 5810

(α, n') Level

58-Ce-131

0 Kelvin Cross Sections



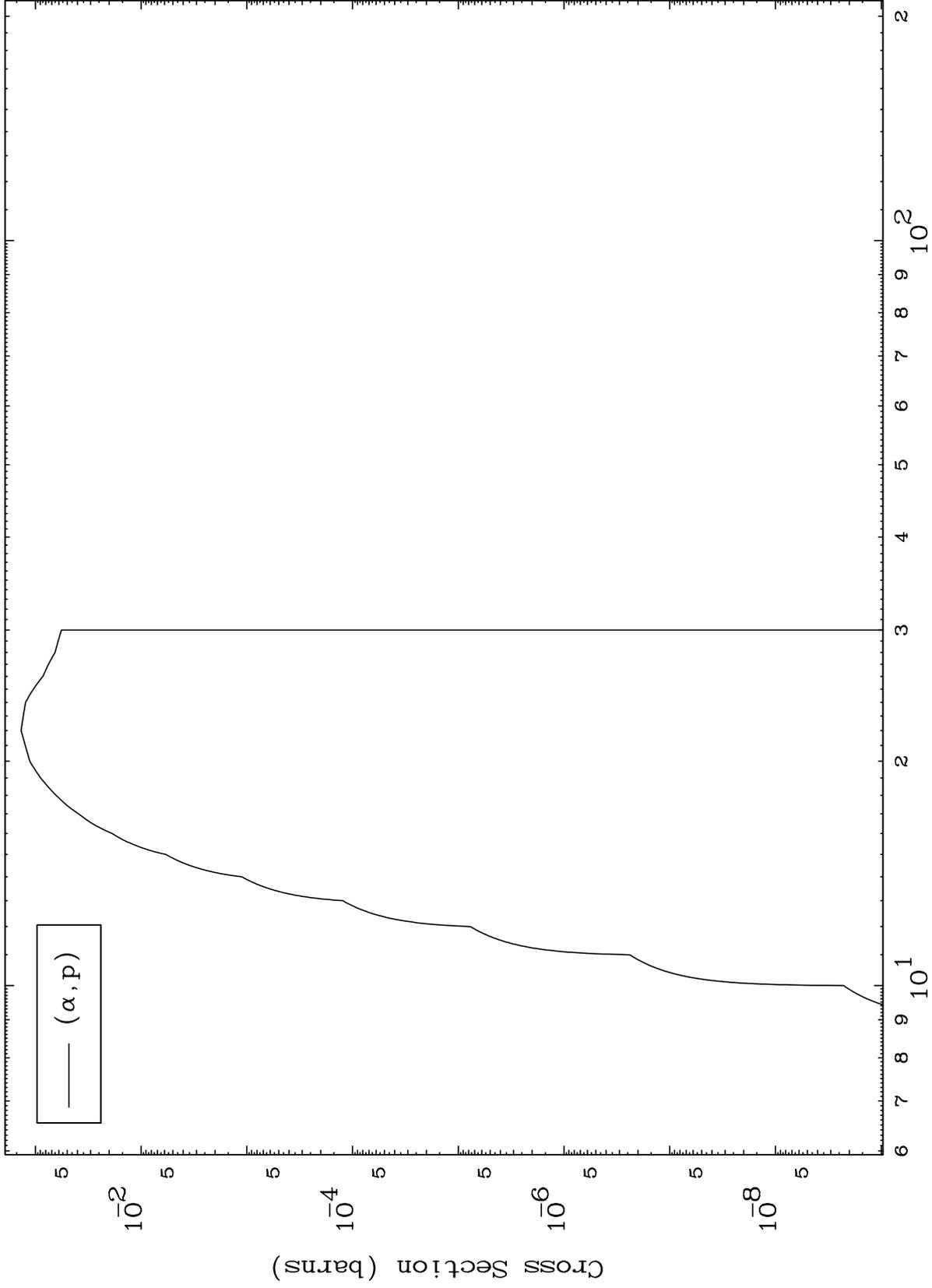
Incident Energy (MeV)

58-Ce-131

MAT 5810

58-Ce-131

(α, p) Levels
0 Kelvin Cross Sections



6

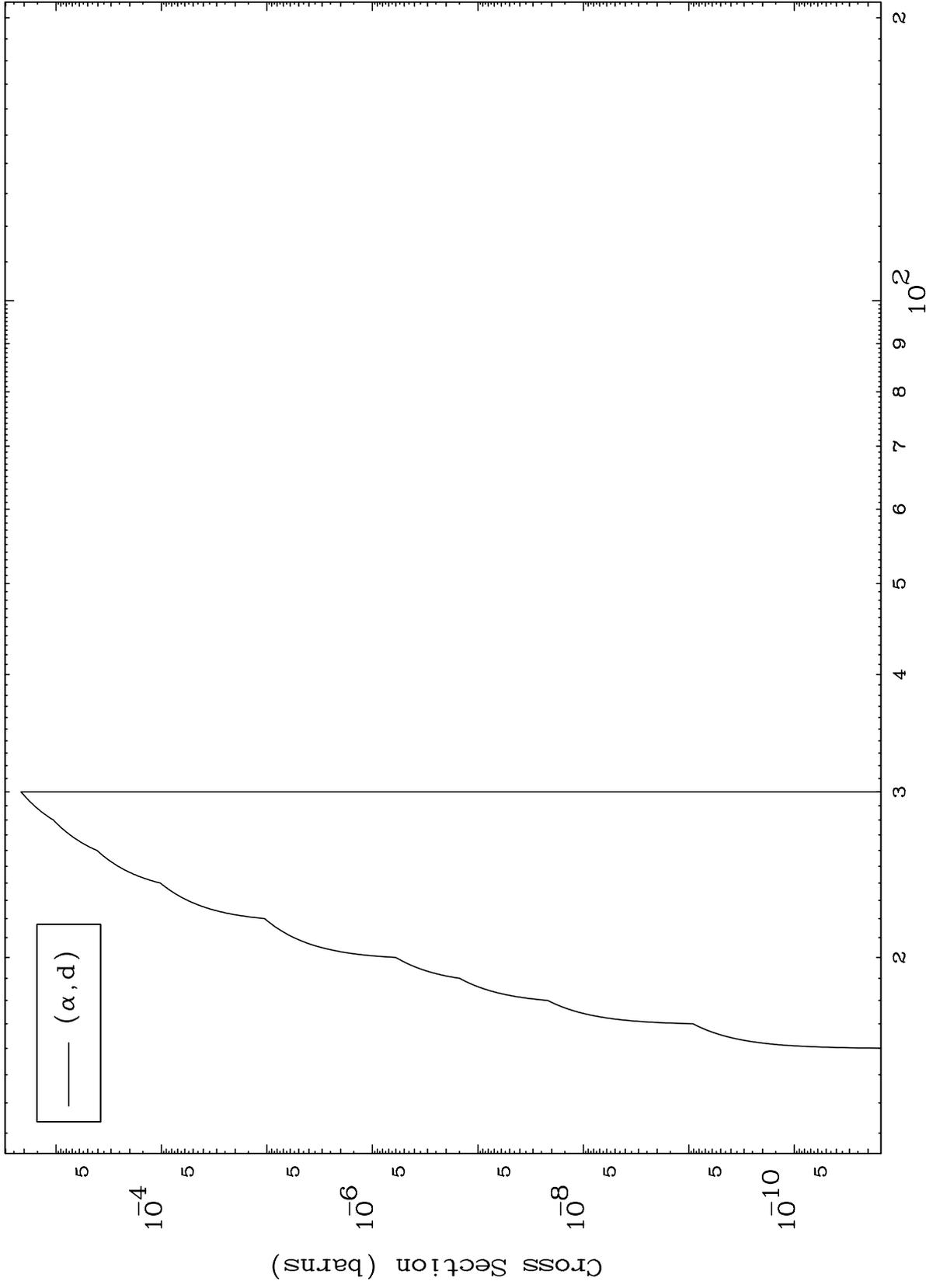
Incident Energy (MeV)

58-Ce-131

MAT 5810

(α, d) Levels
0 Kelvin Cross Sections

58-Ce-131



7

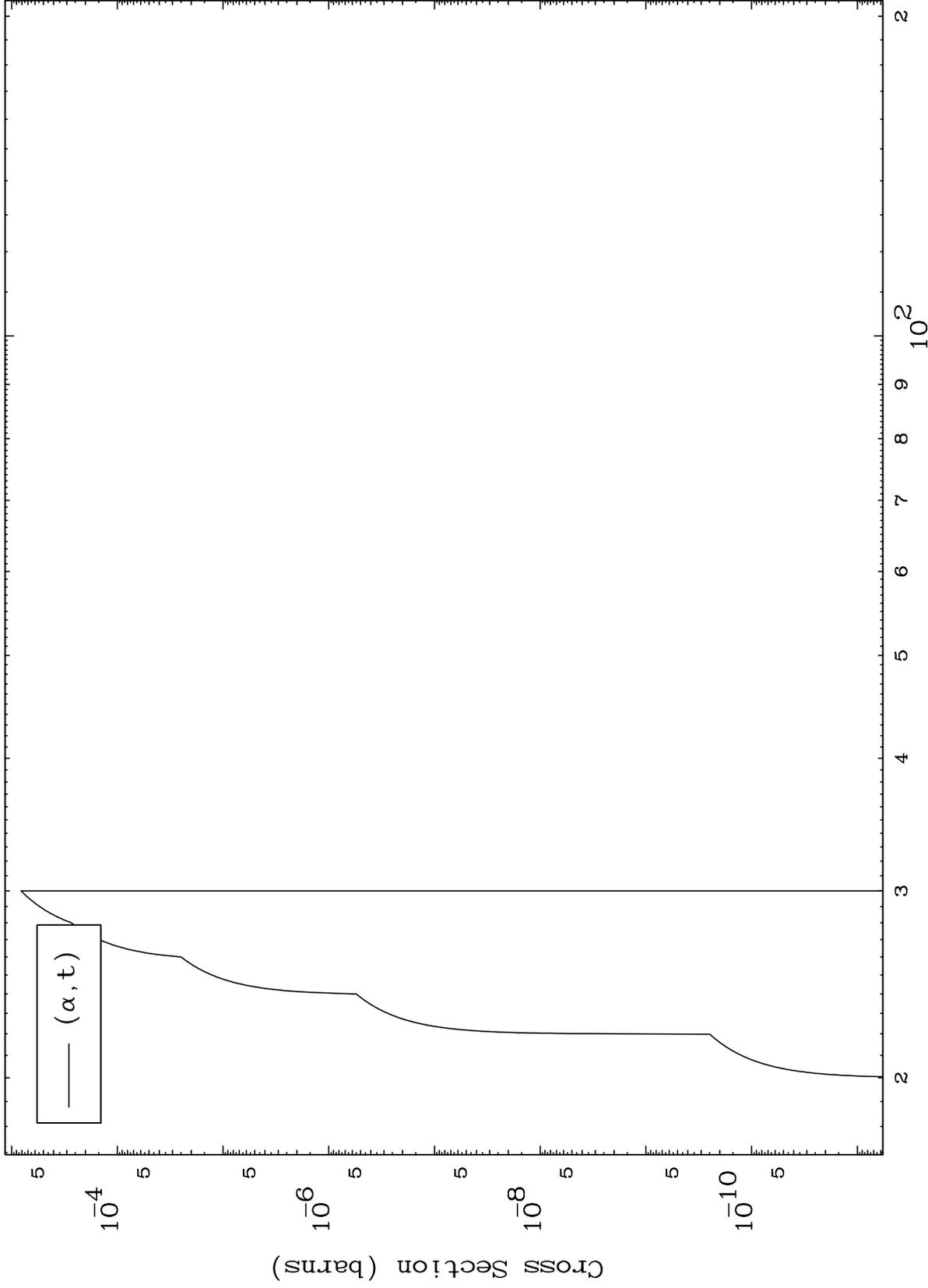
Incident Energy (MeV)

58-Ce-131

MAT 5810

(α, t) Levels
0 Kelvin Cross Sections

58-Ce-131



8

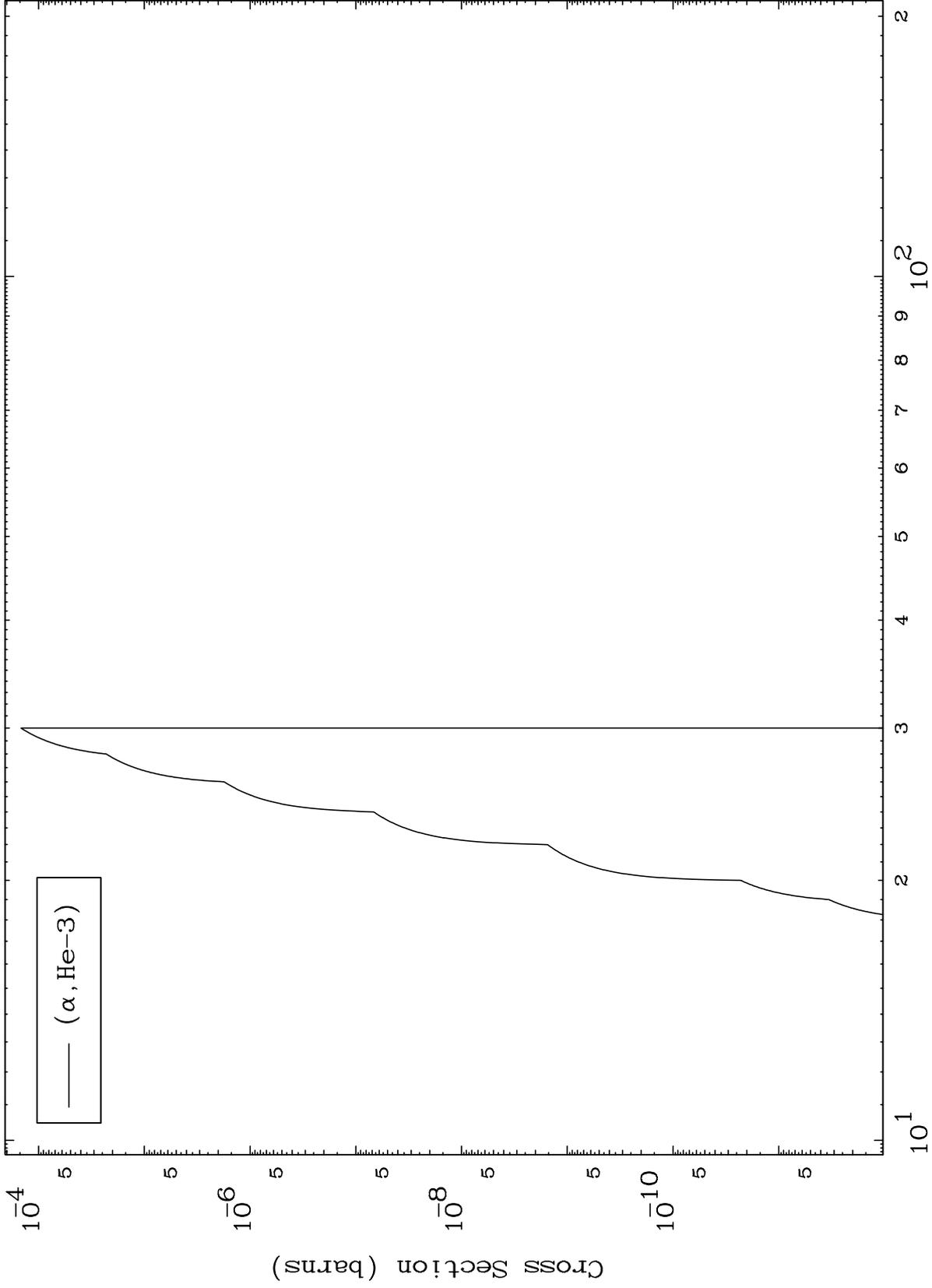
Incident Energy (MeV)

58-Ce-131

MAT 5810

58-Ce-131

(α , He3) Levels
0 Kelvin Cross Sections



58-Ce-131

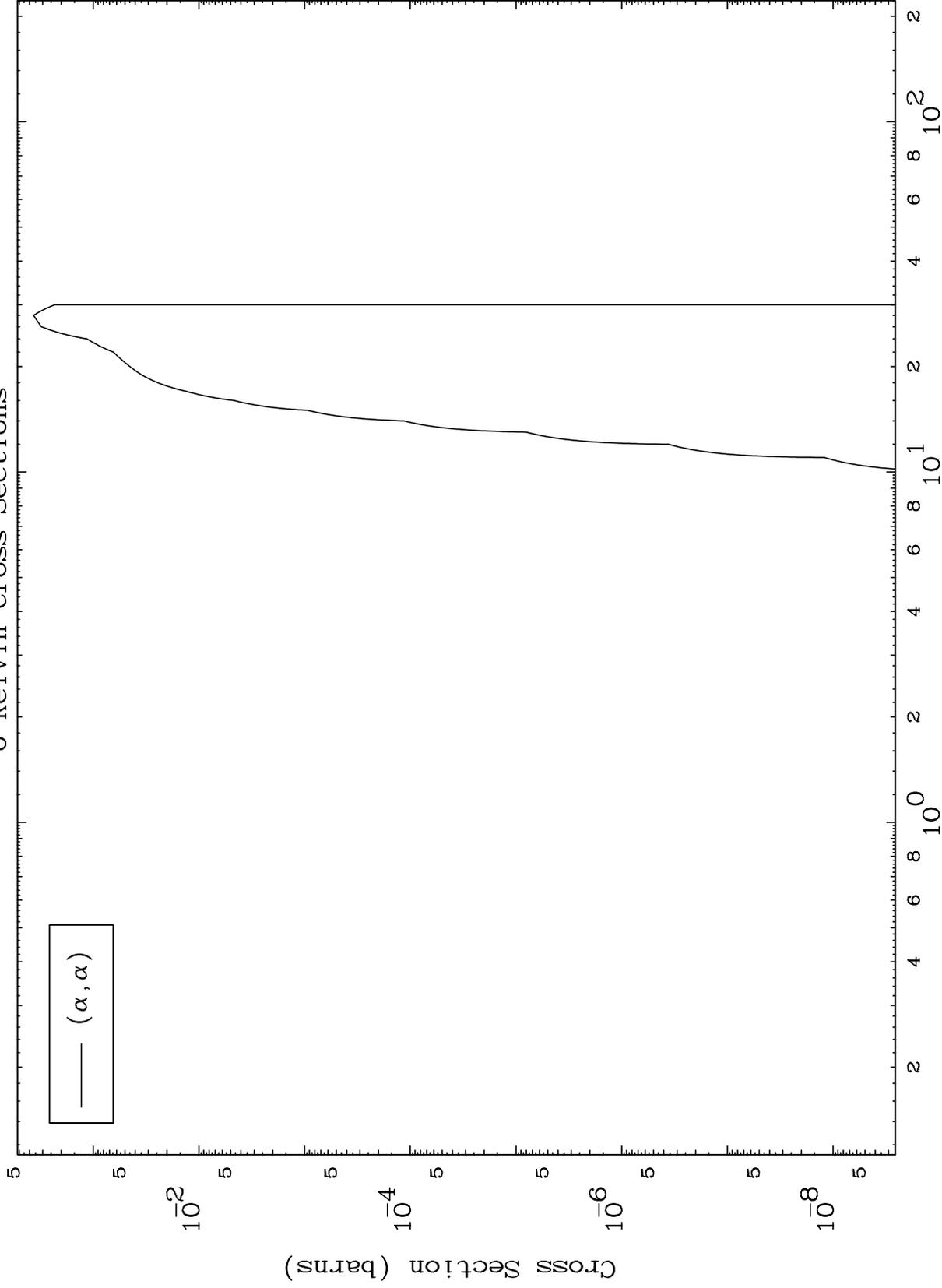
Incident Energy (MeV)

MAT 5810

(α, α) Levels

58-Ce-131

0 Kelvin Cross Sections



10

Incident Energy (MeV)

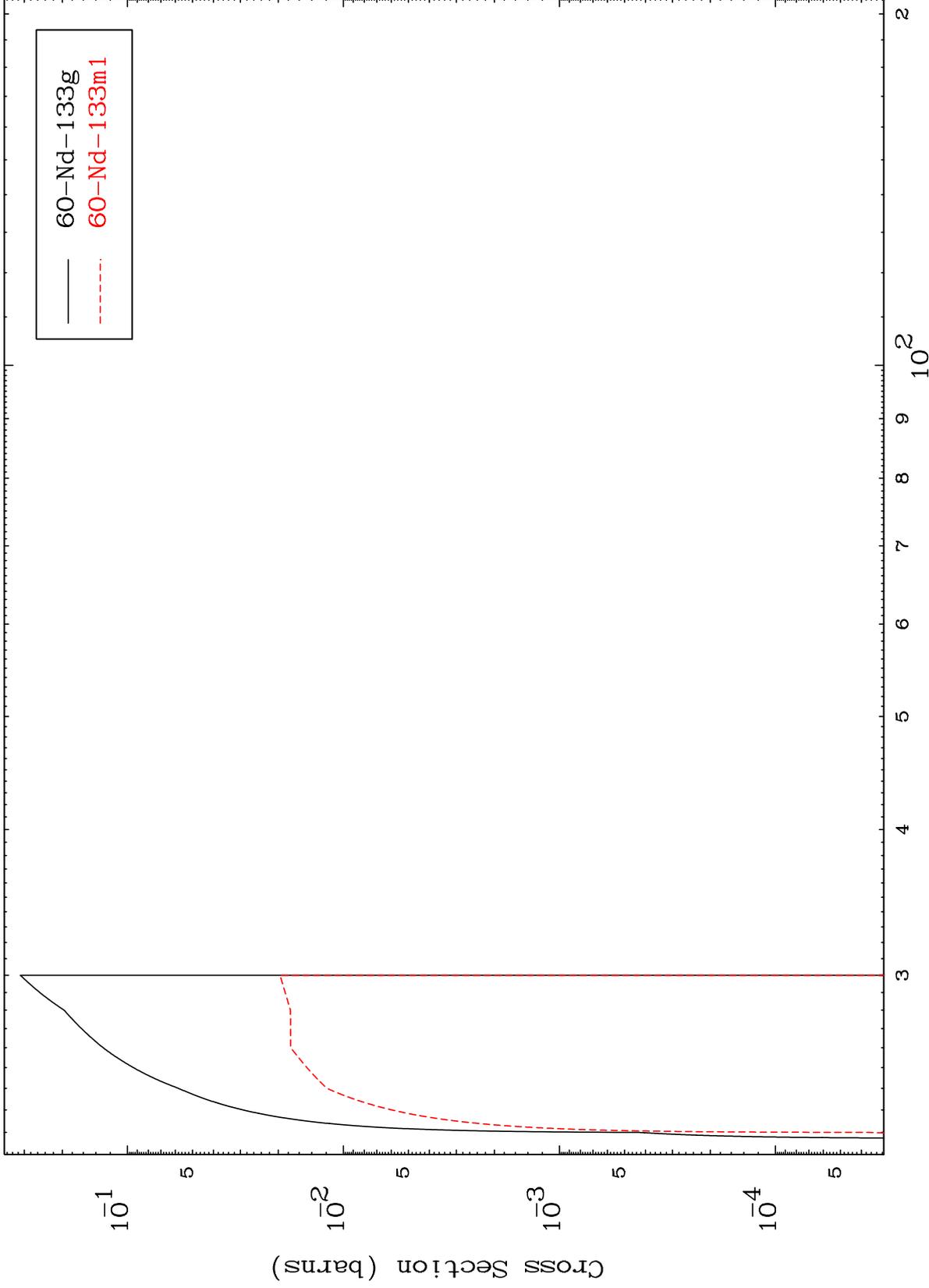
58-Ce-131

MAT 5810

($\alpha, 2n$)

58-Ce-131

Radionuclide Production Cross Section



11

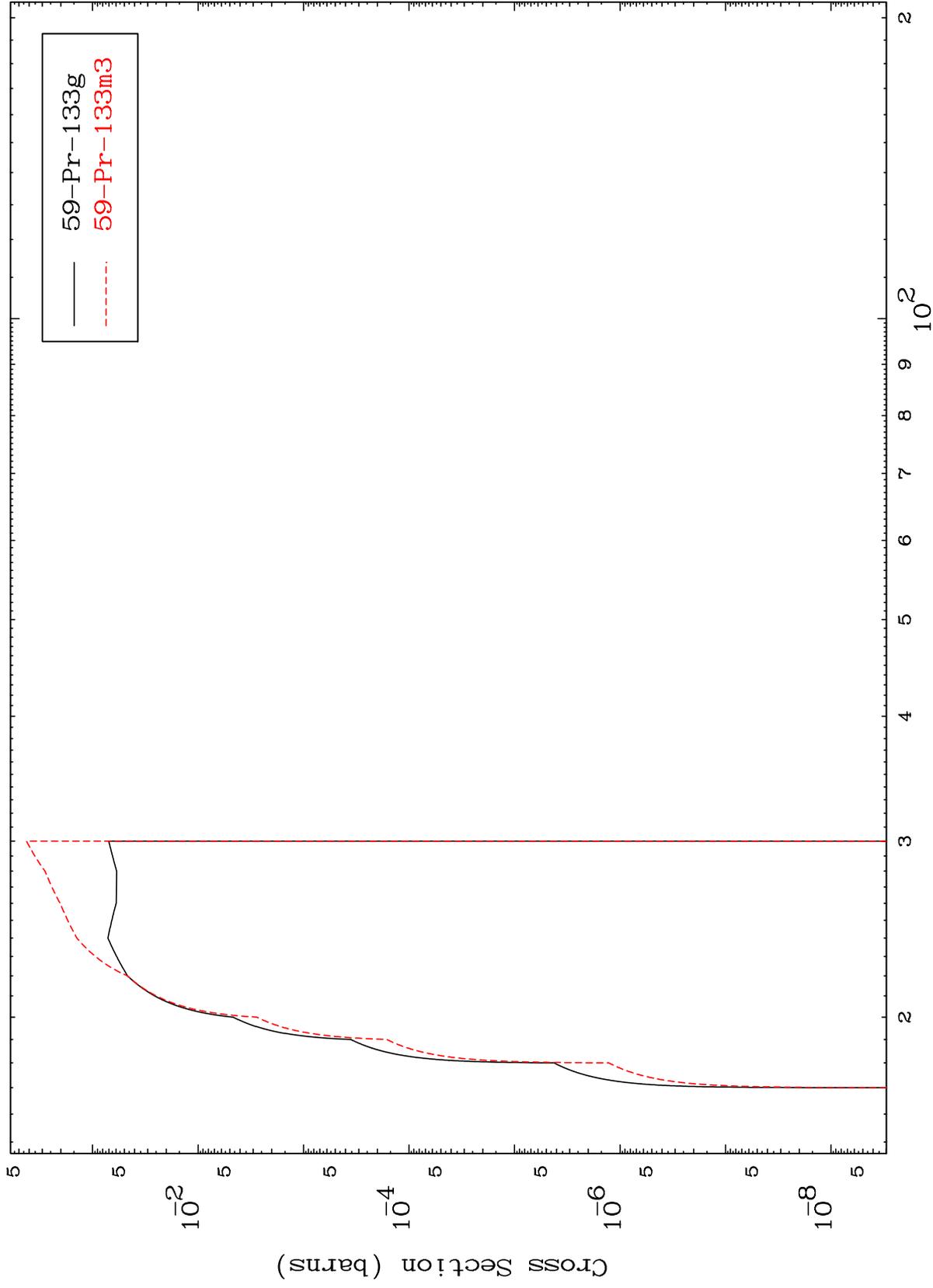
Incident Energy (MeV)

58-Ce-131

MAT 5810

58-Ce-131

(α, n') p
Radionuclide Production Cross Section



58-Ce-131

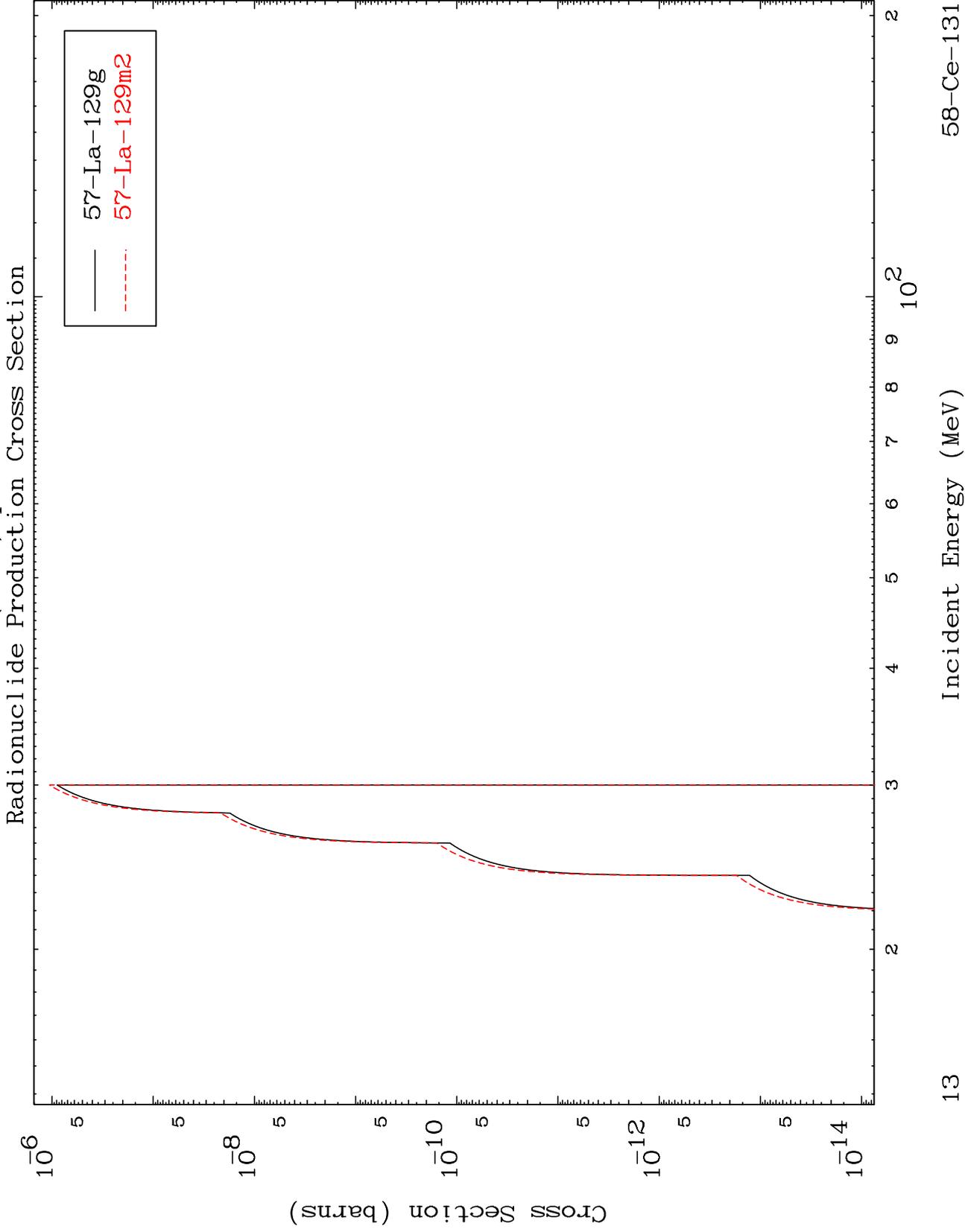
Incident Energy (MeV)

12

MAT 5810

(α, n') p α

58-Ce-131



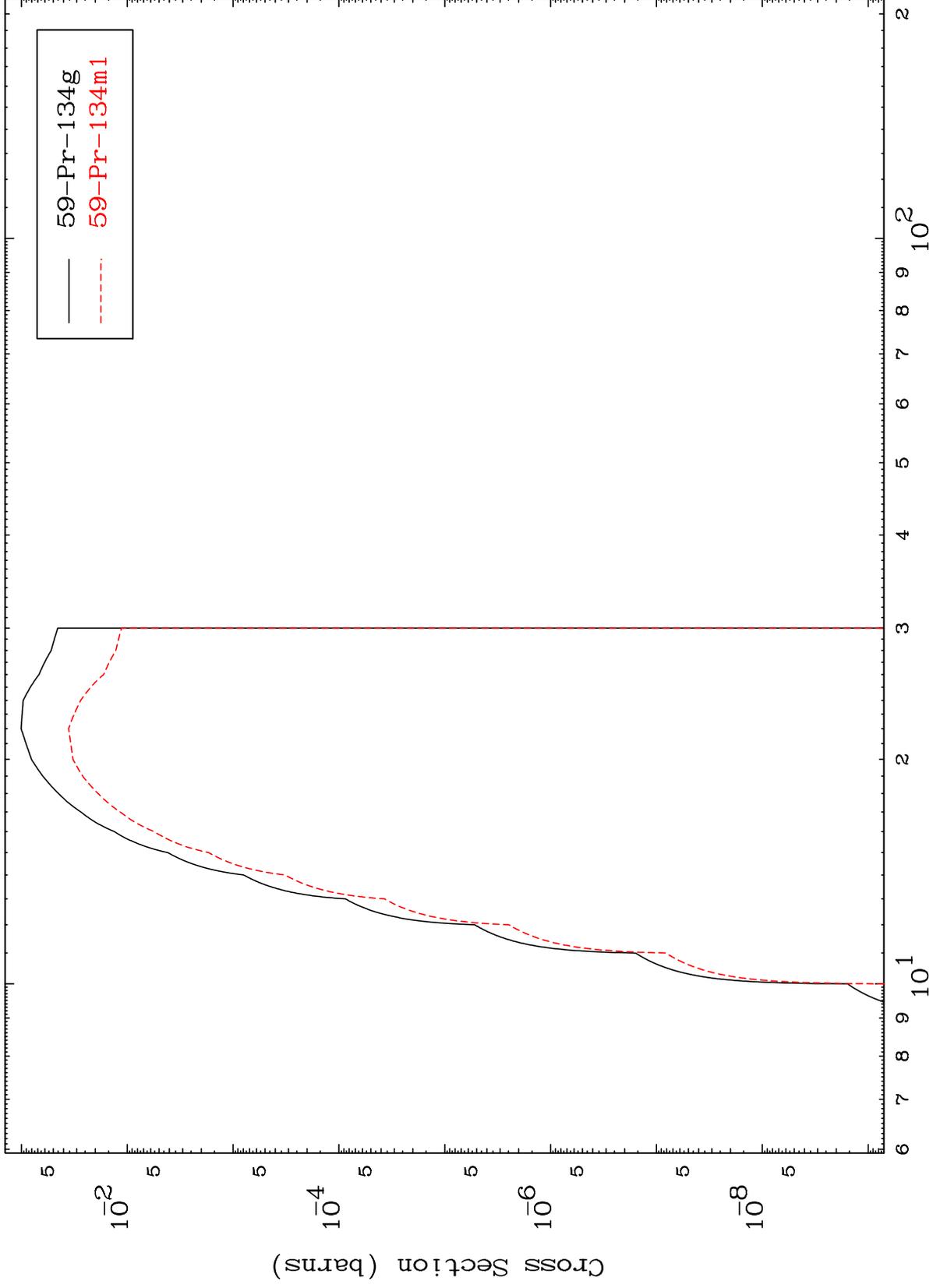
13

58-Ce-131

MAT 5810

58-Ce-131

(α, p)
Radionuclide Production Cross Section



14

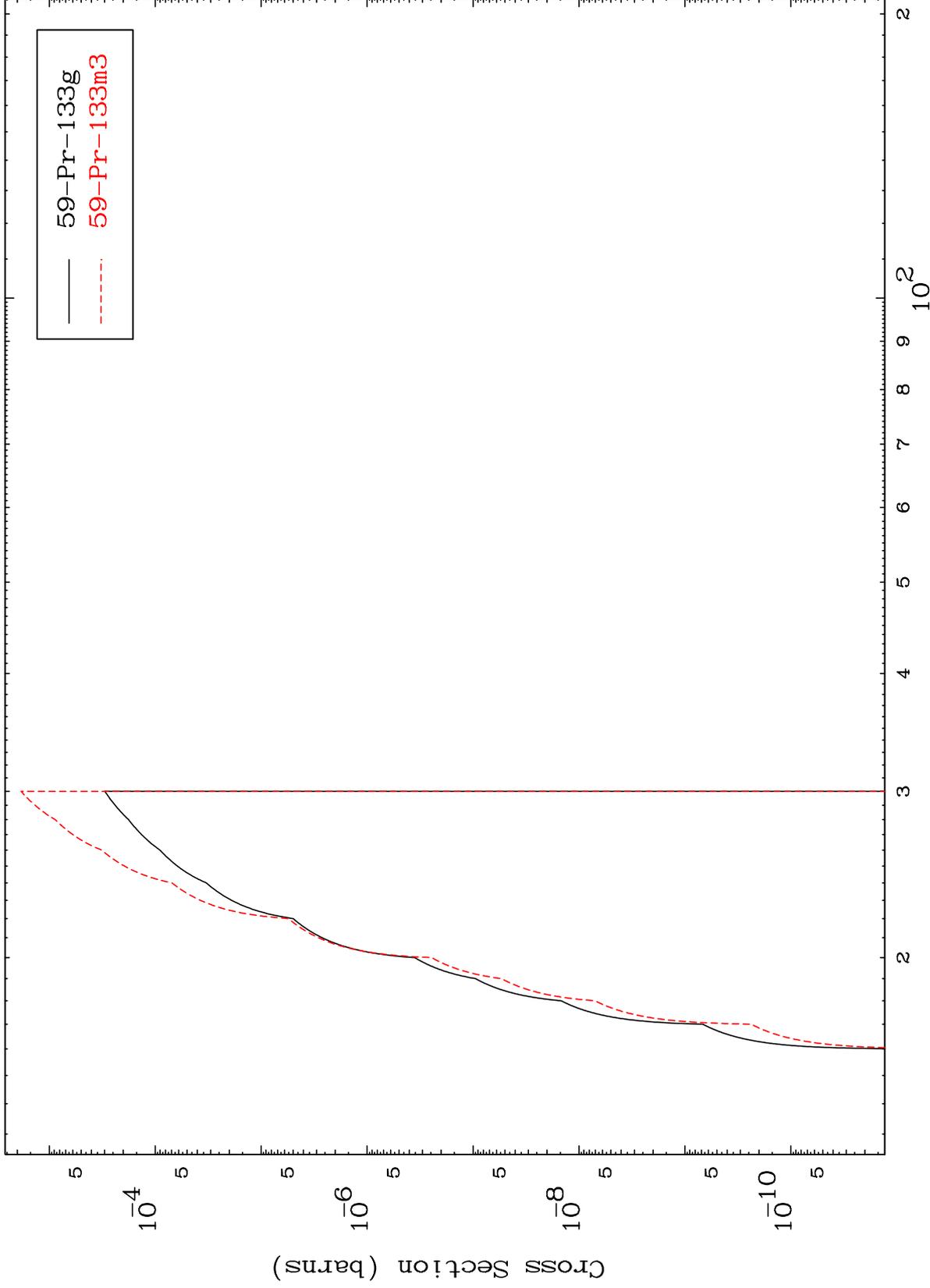
Incident Energy (MeV)

58-Ce-131

MAT 5810

58-Ce-131

(α, d)
Radionuclide Production Cross Section



15

Incident Energy (MeV)

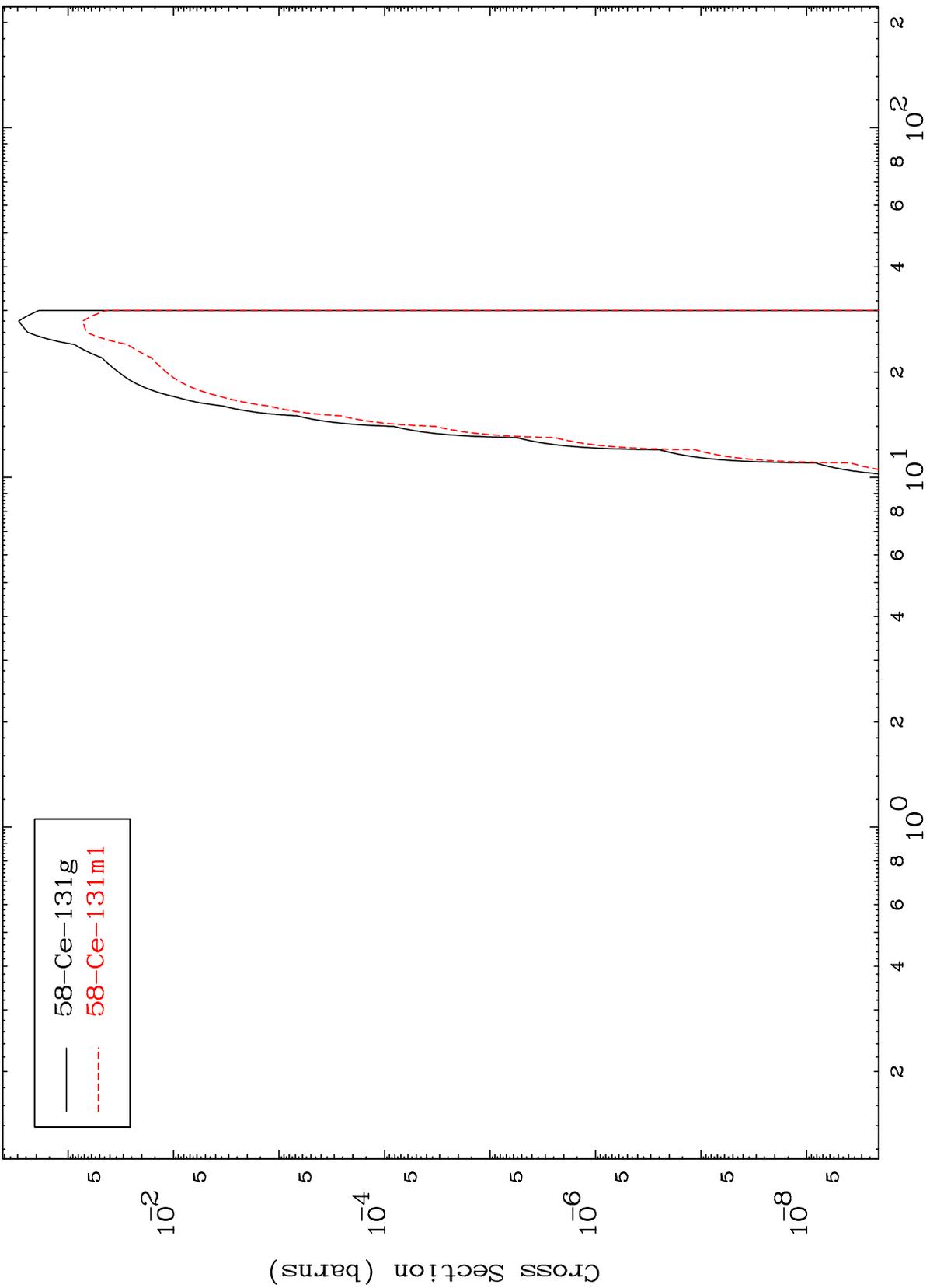
58-Ce-131

MAT 5810

(α, α)

58-Ce-131

Radionuclide Production Cross Section



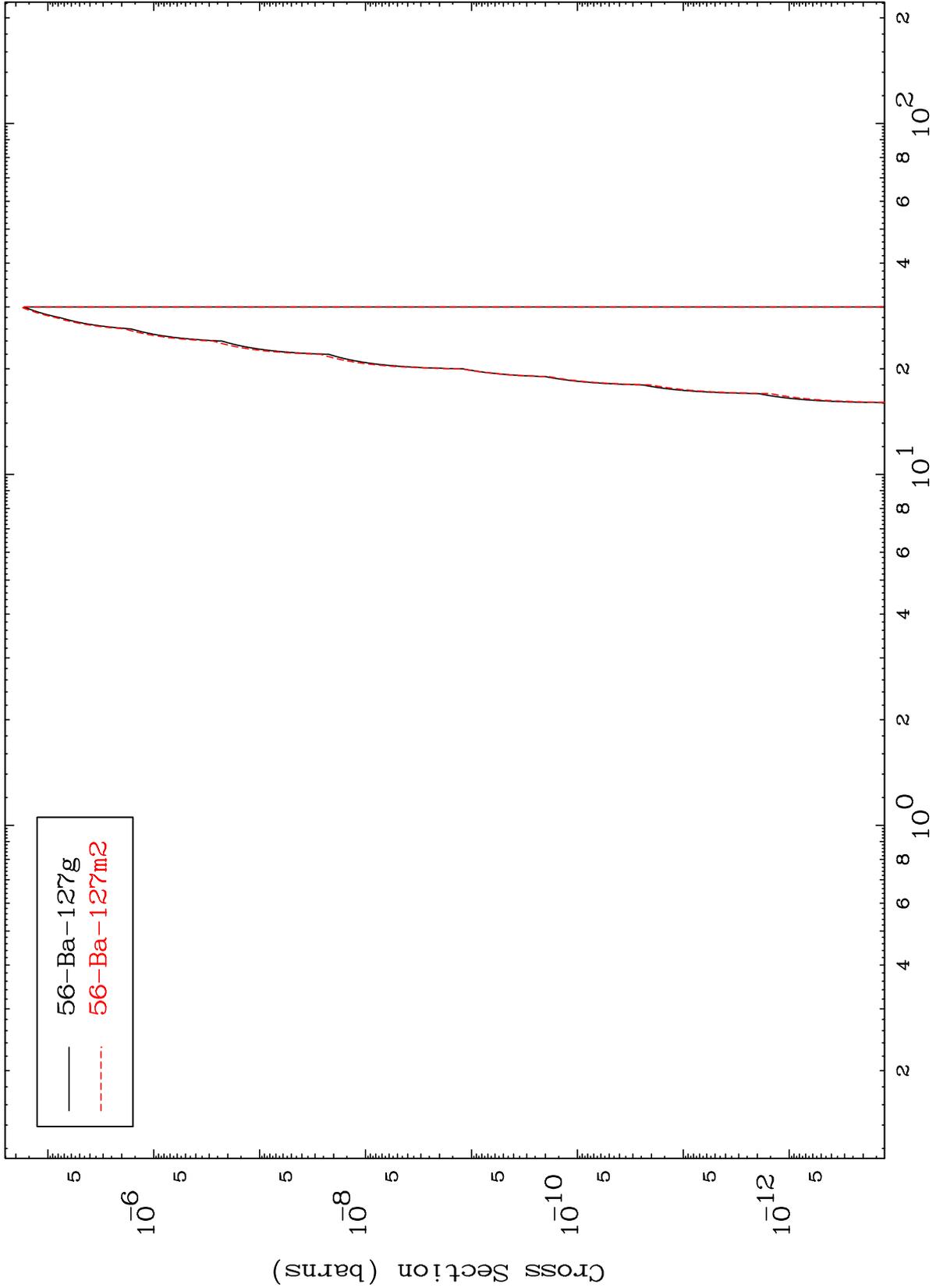
58-Ce-131g
58-Ce-131m1

MAT 5810

($\alpha, 2\alpha$)

58-Ce-131

Radionuclide Production Cross Section

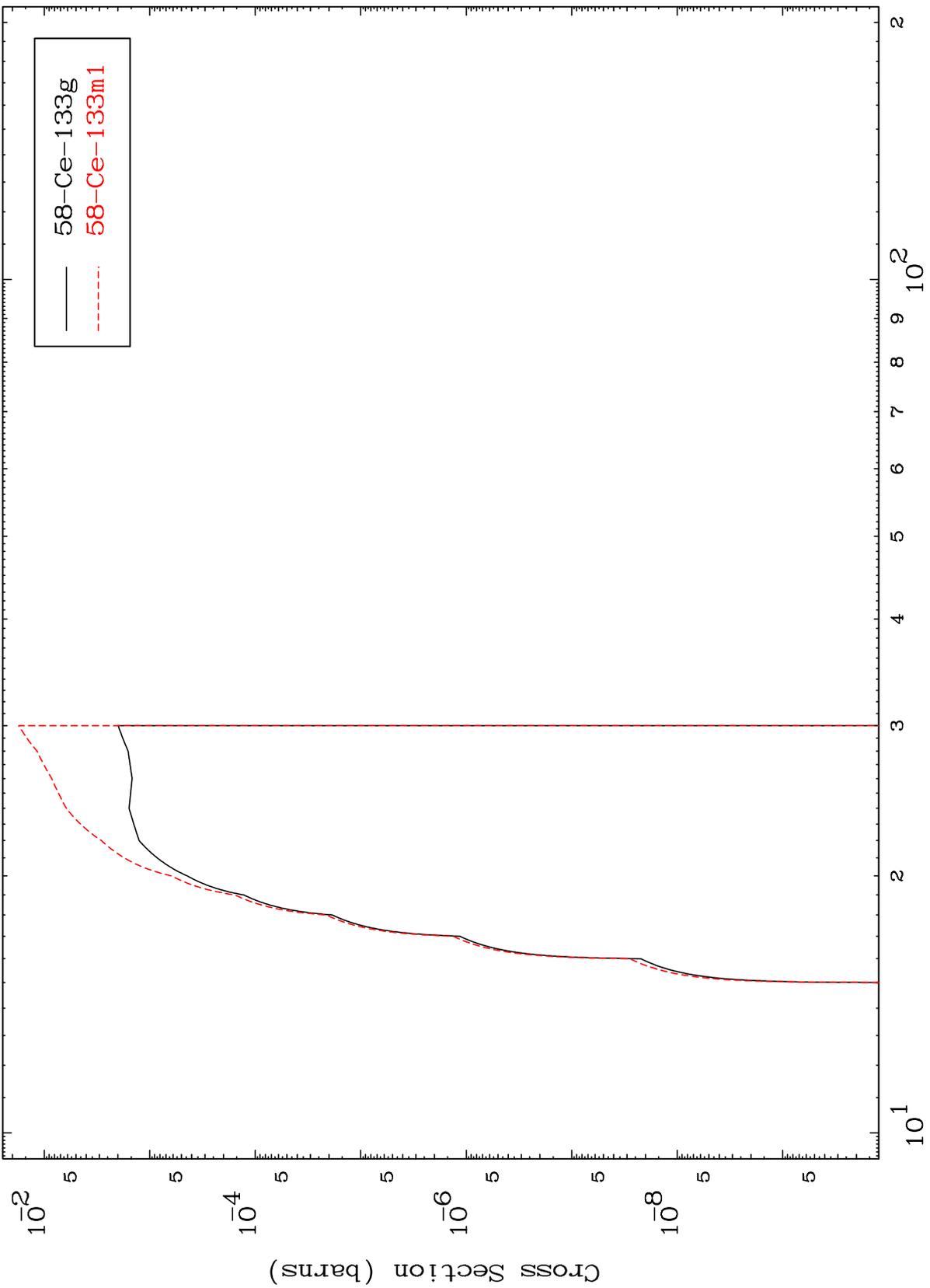


56-Ba-127g
56-Ba-127m2

MAT 5810

58-Ce-131

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



58-Ce-131

Incident Energy (MeV)

18

10^1

2

10^2

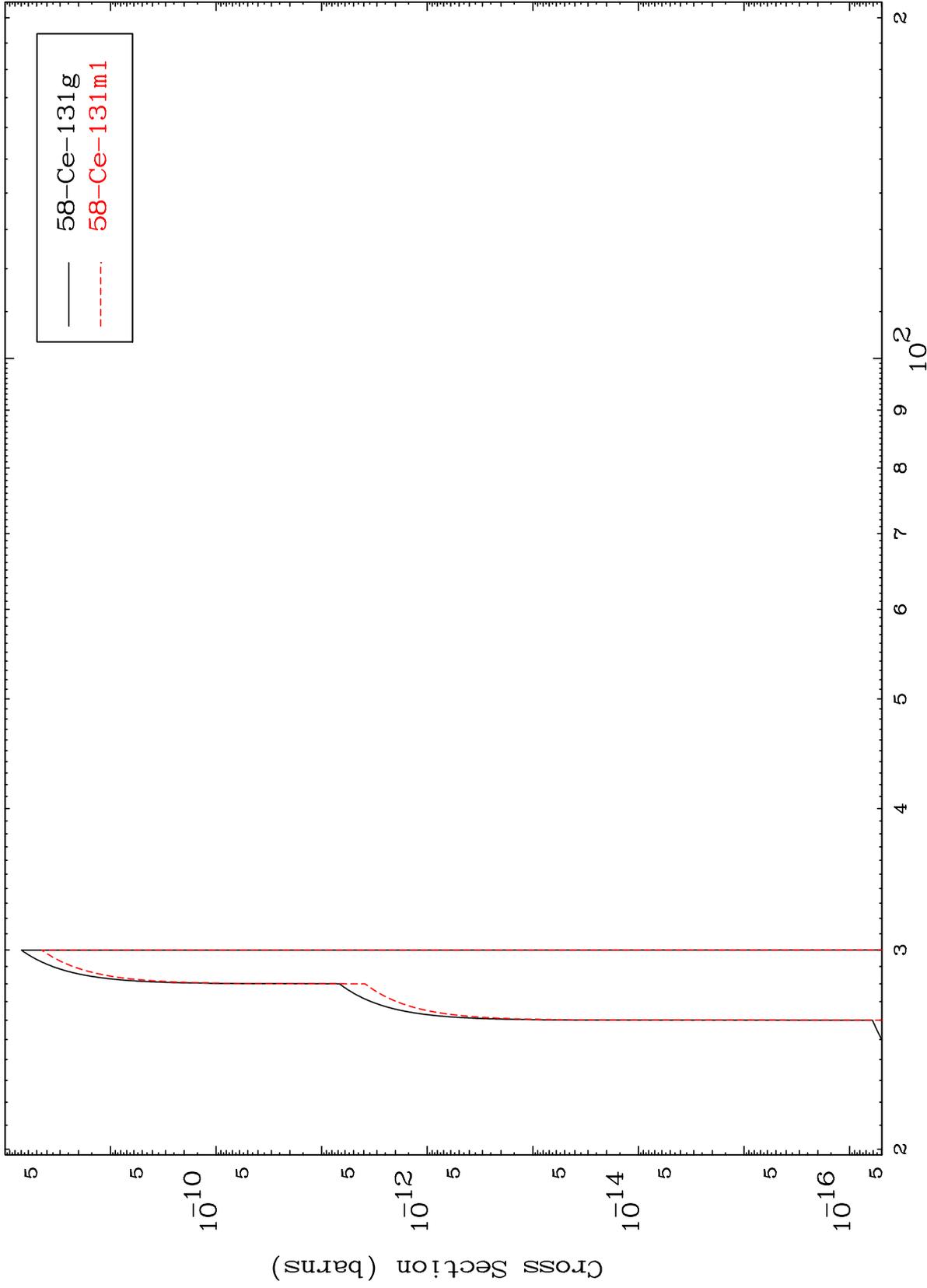
2

MAT 5810

58-Ce-131

(α, p) t

Radionuclide Production Cross Section



19

58-Ce-131

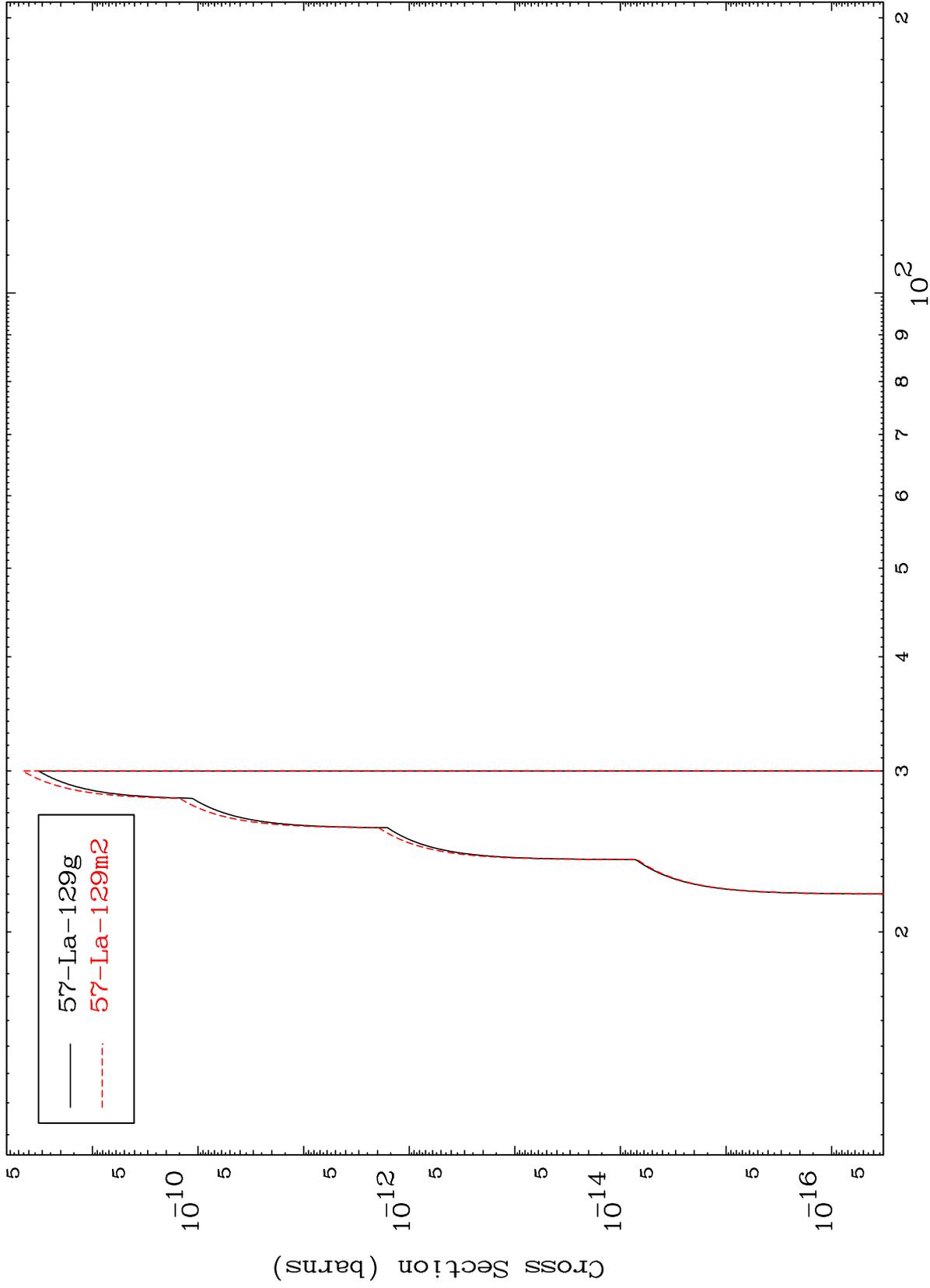
Incident Energy (MeV)

MAT 5810

58-Ce-131

(α, d) α

Radionuclide Production Cross Section



20

Incident Energy (MeV)

58-Ce-131