

Program EVALPLOT
(Version 2021-1)

by

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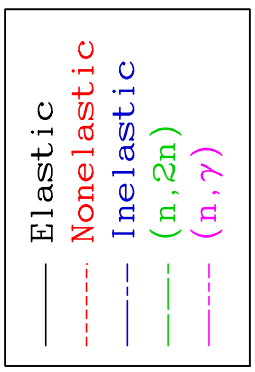
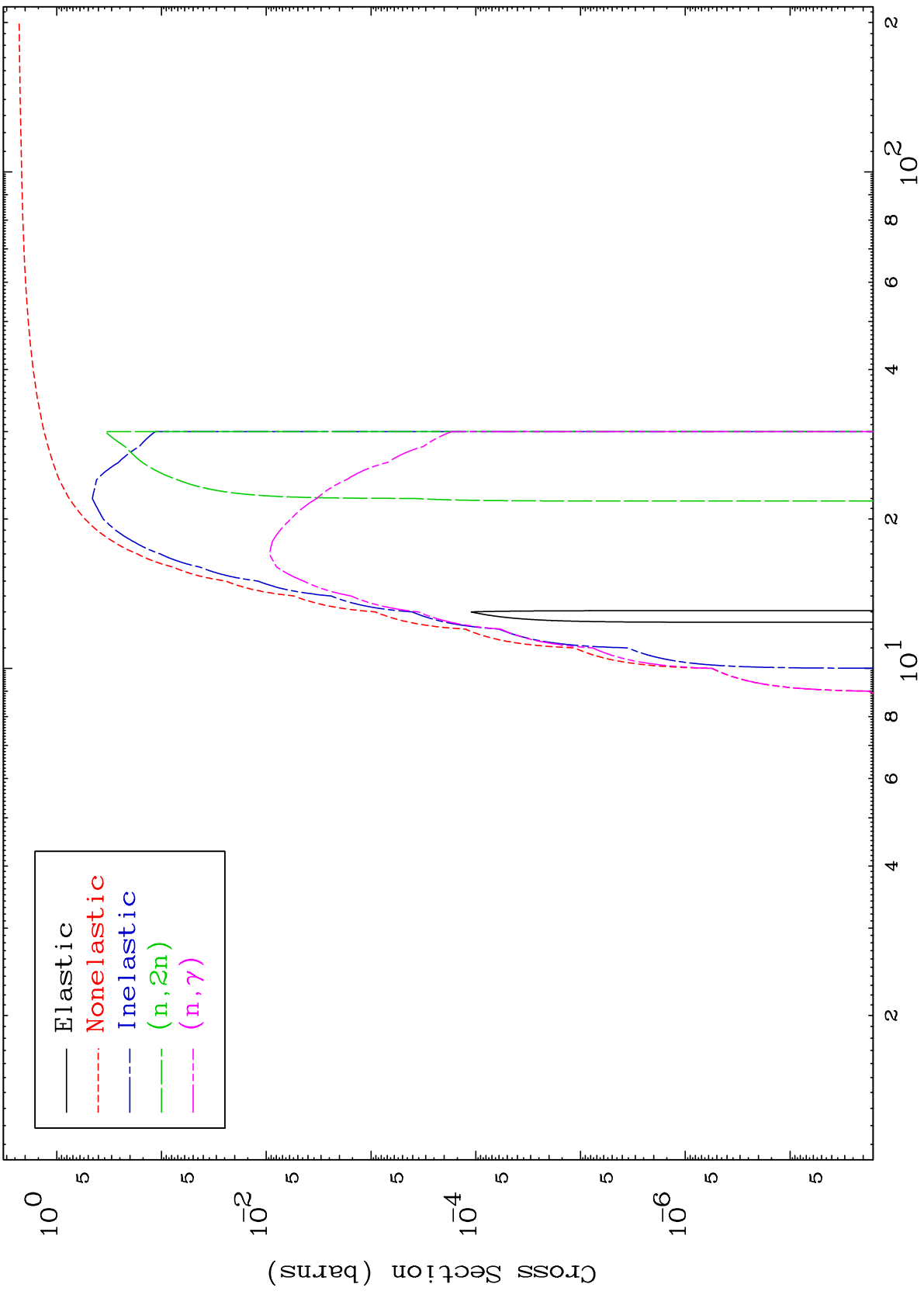
Press Mouse Button to Start

MAT 5810

α Major

58-Ce-131

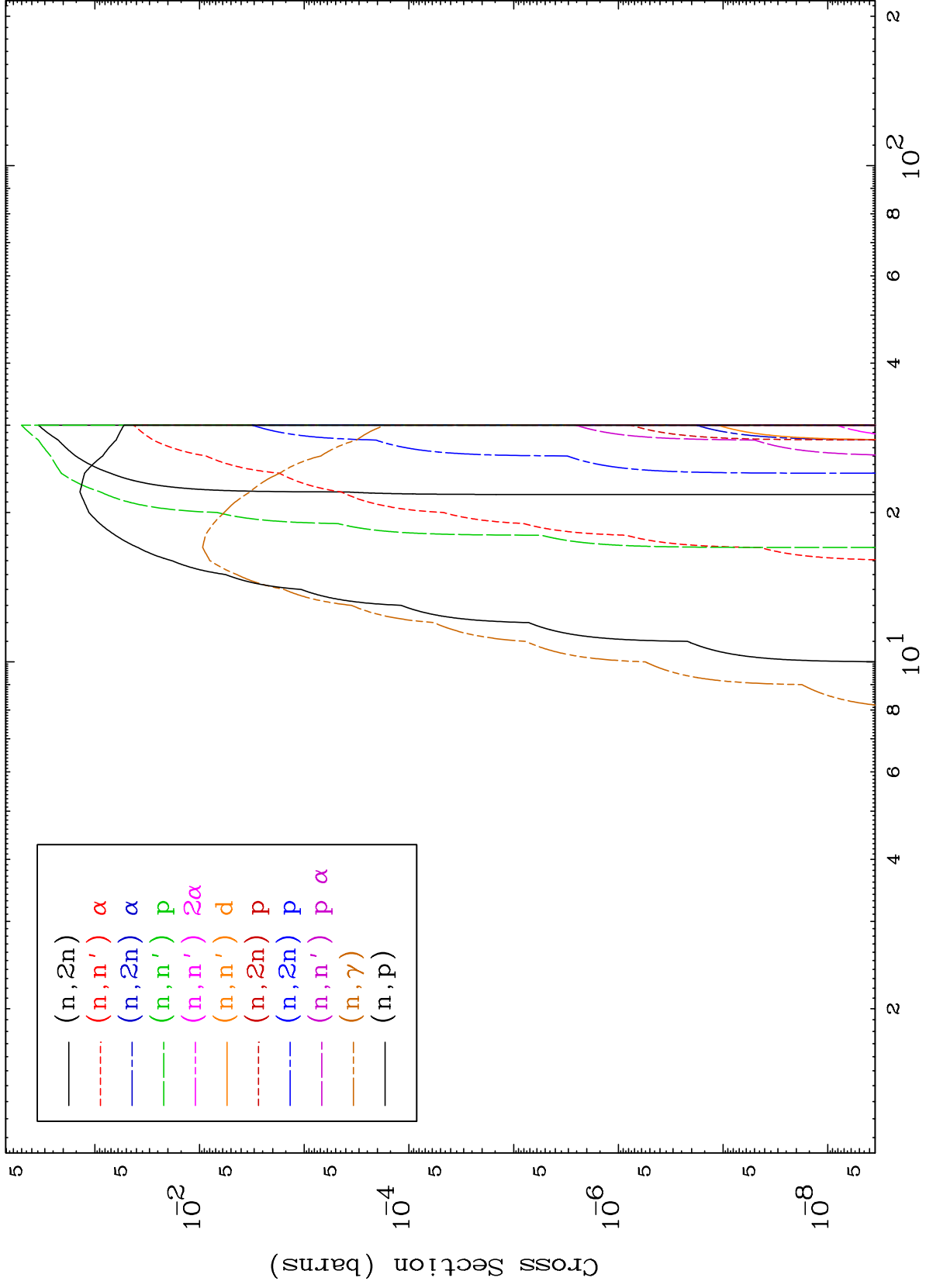
0 Kelvin Cross Sections



MAT 5810

α Neutron Absorption
0 Kelvin Cross Sections

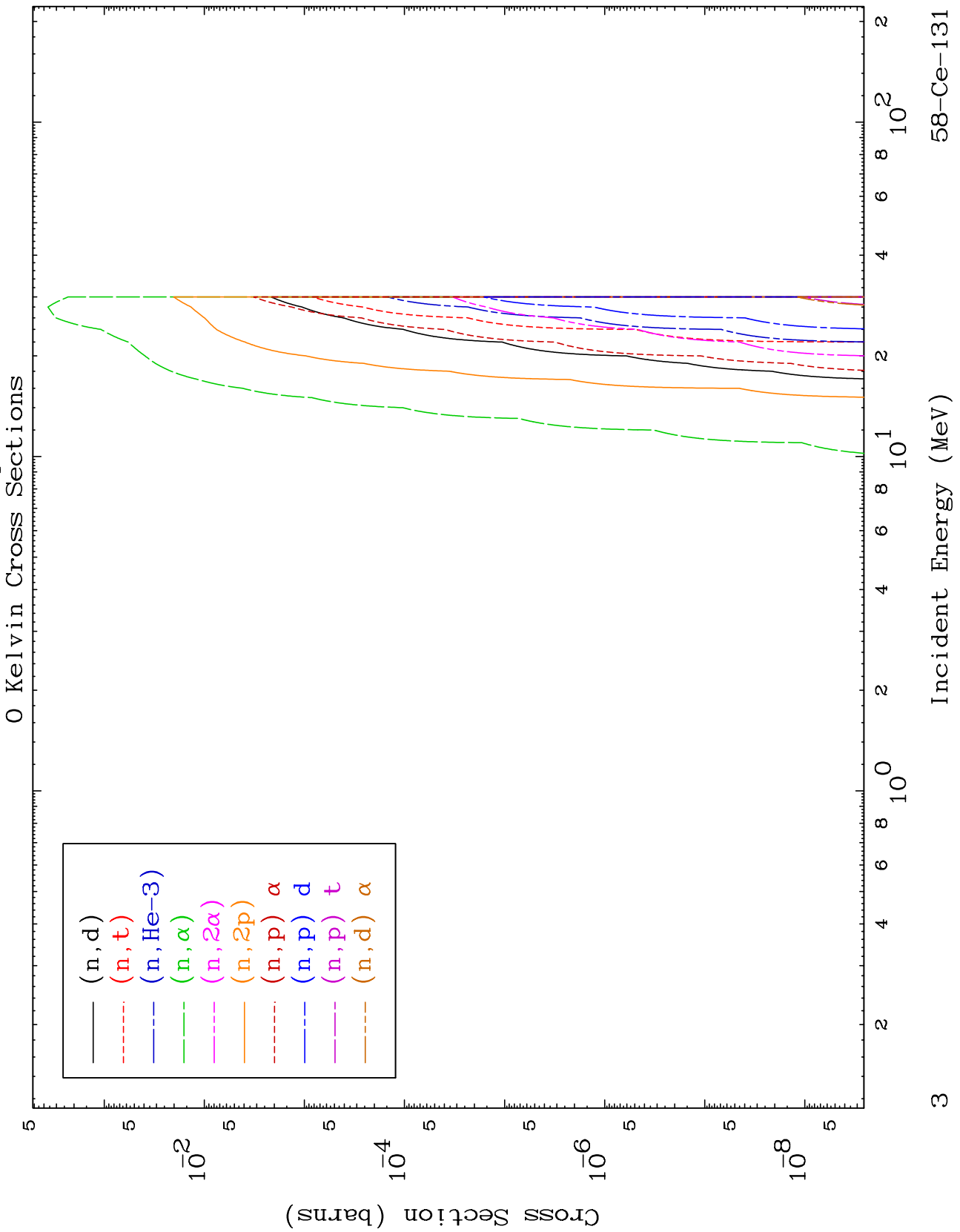
58-Ce-131

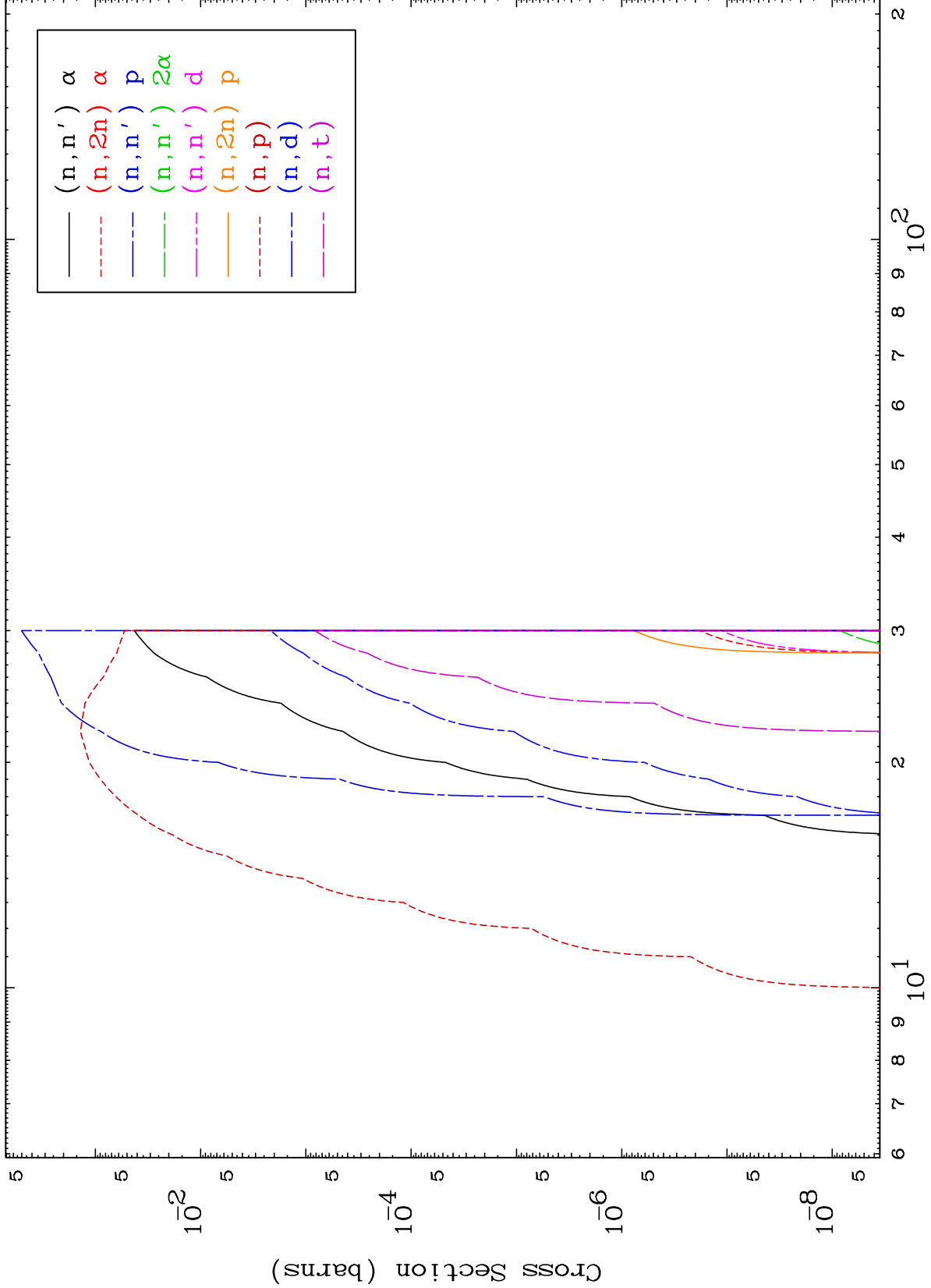


MAT 5810

α Neutron Absorption

58-Ce-131

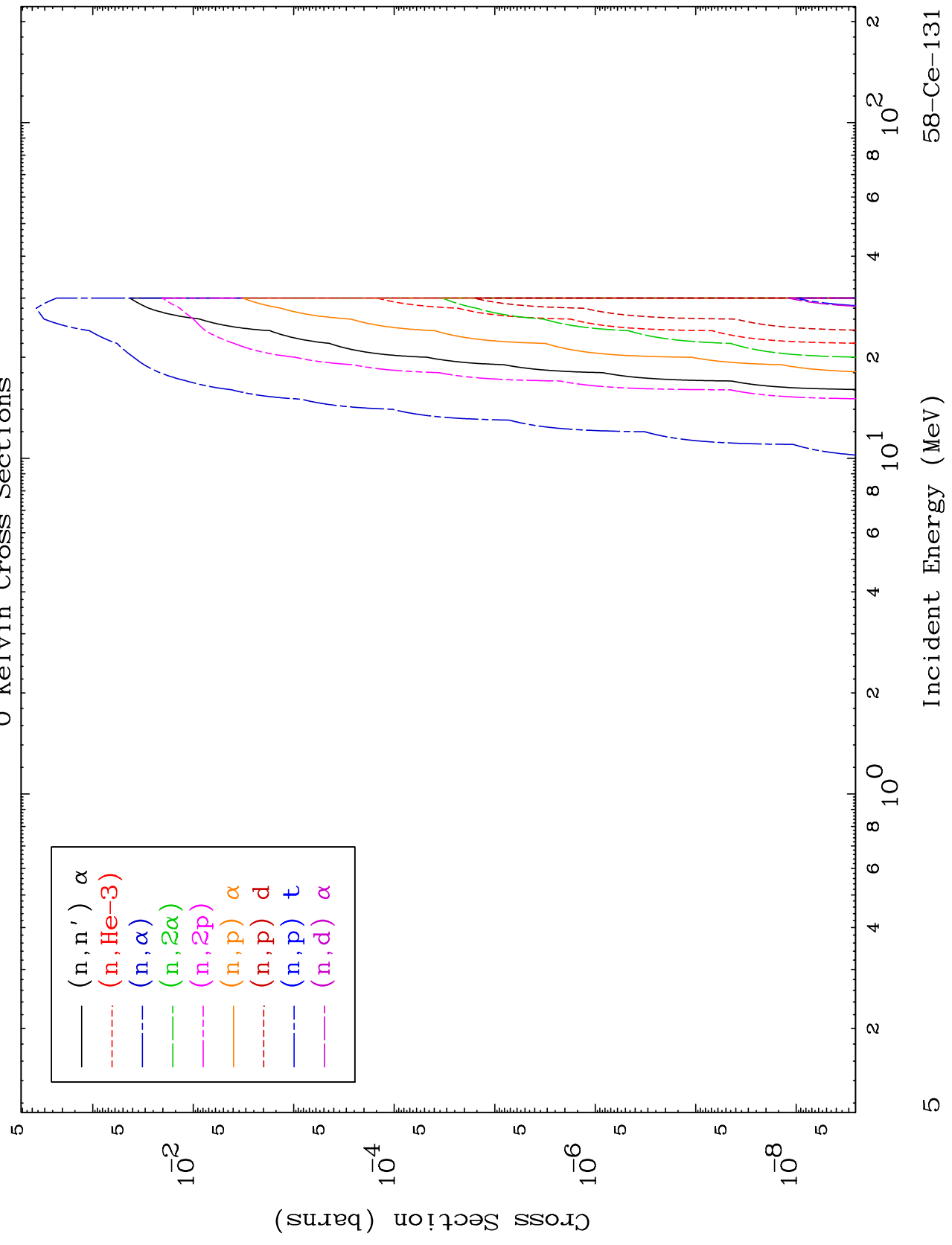




MAT 5810

α Charged Particle
0 Kelvin Cross Sections

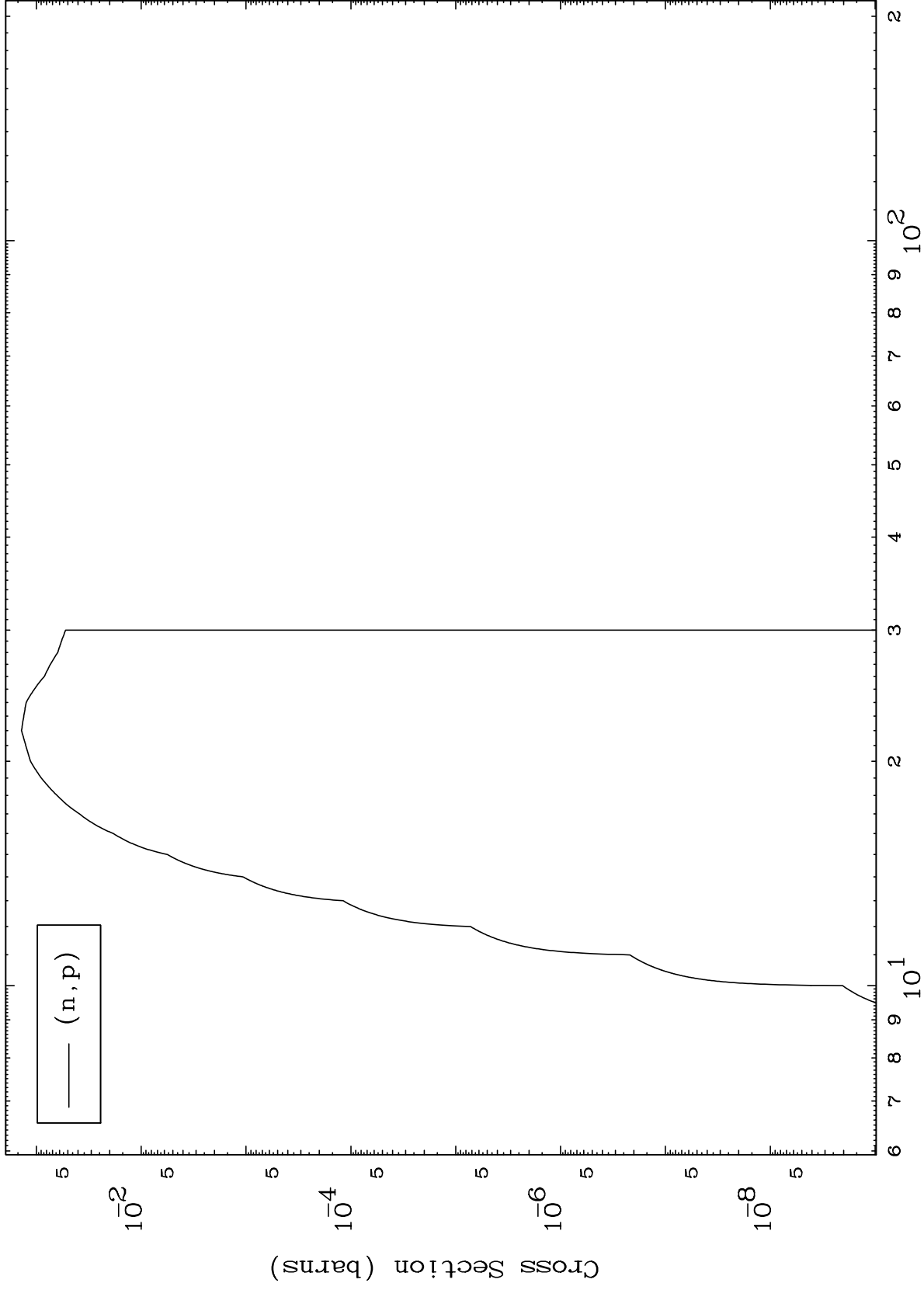
58-Ce-131



MAT 5810

(α, p) Levels
0 Kelvin Cross Sections

58-Ce-131



6

Incident Energy (MeV)

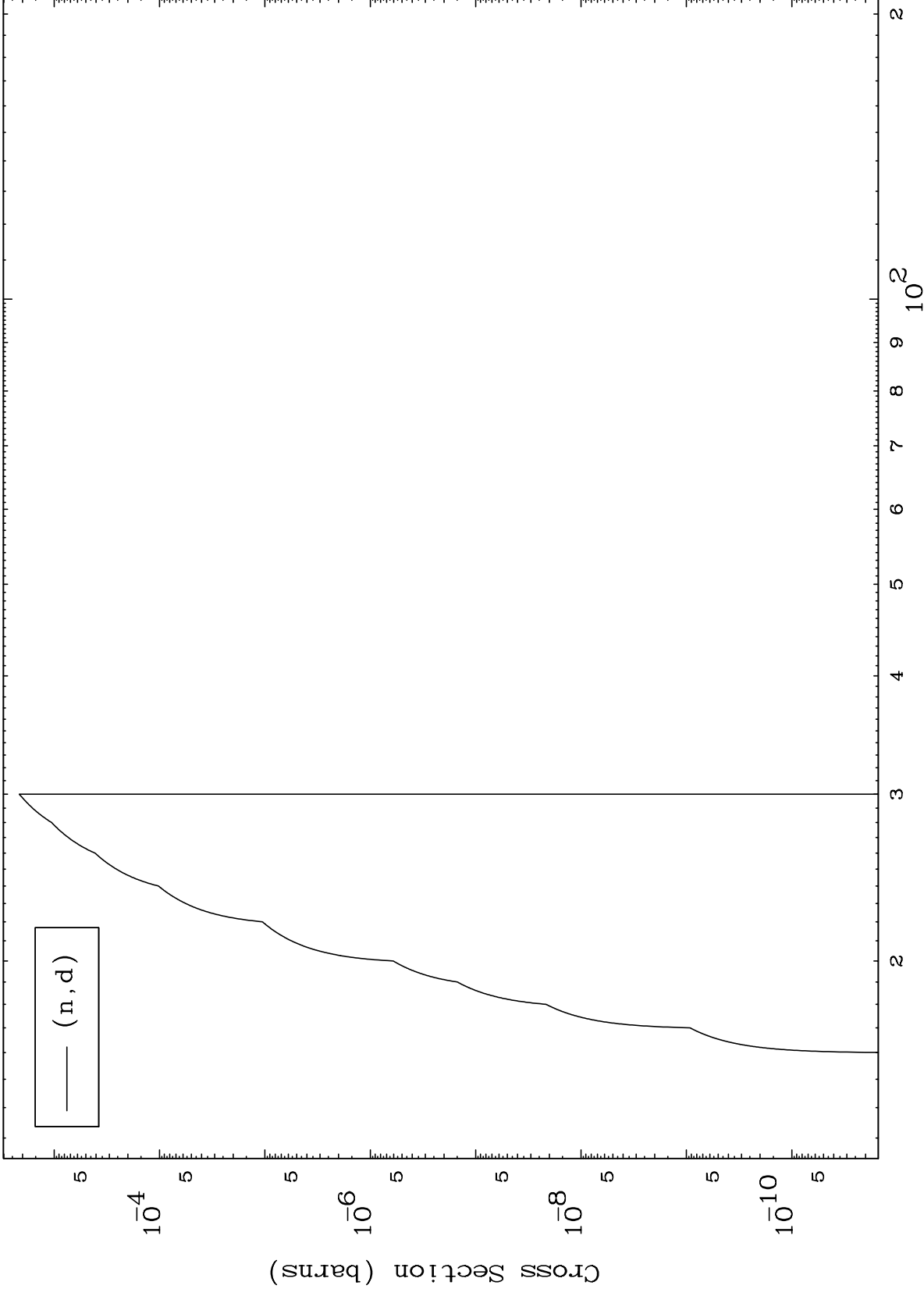
58-Ce-131

MAT 5810

(α, d) Levels

58-Ce-131

0 Kelvin Cross Sections



7

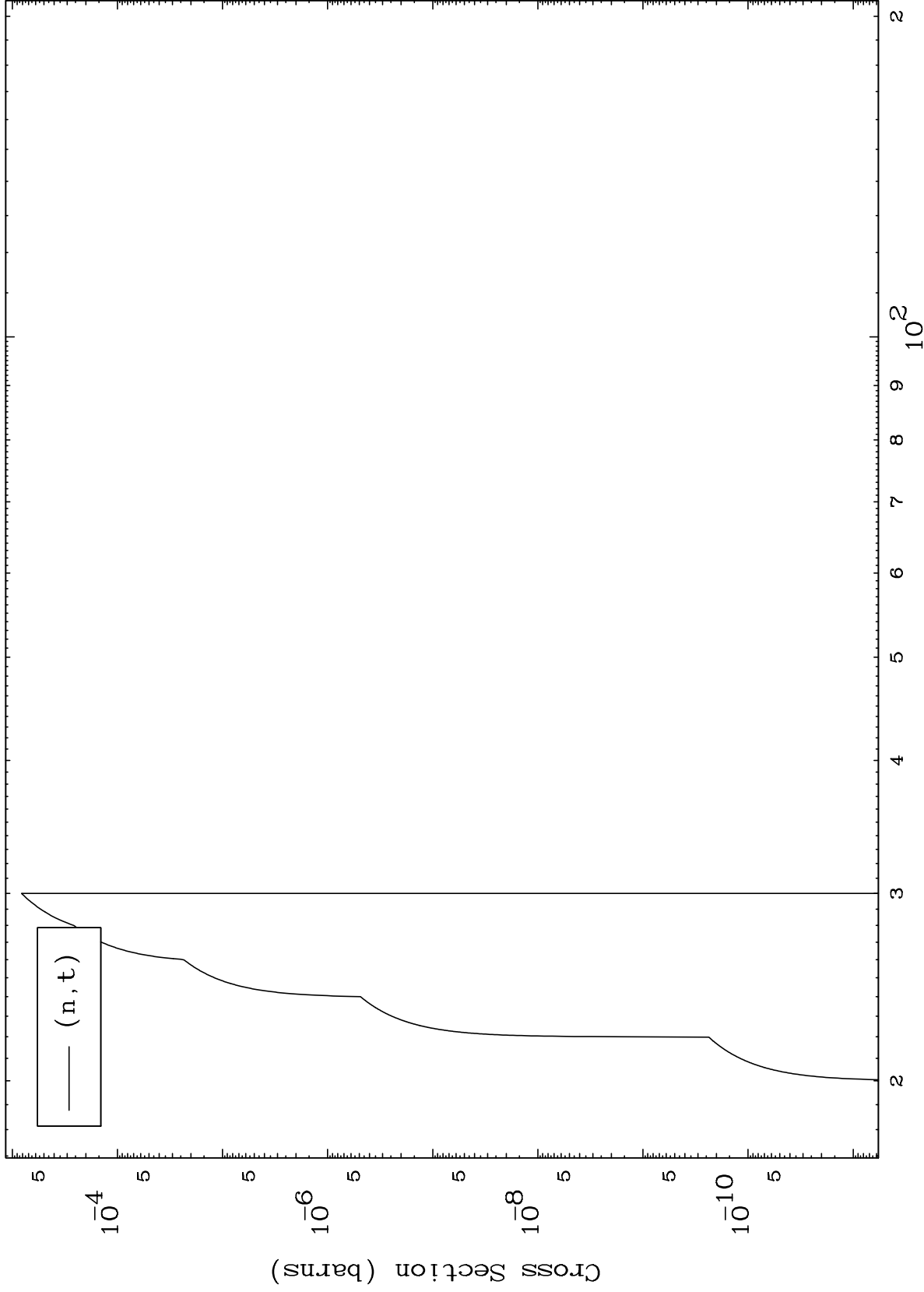
Incident Energy (MeV)

58-Ce-131

MAT 5810

(α, t) Levels
0 Kelvin Cross Sections

58-Ce-131



8

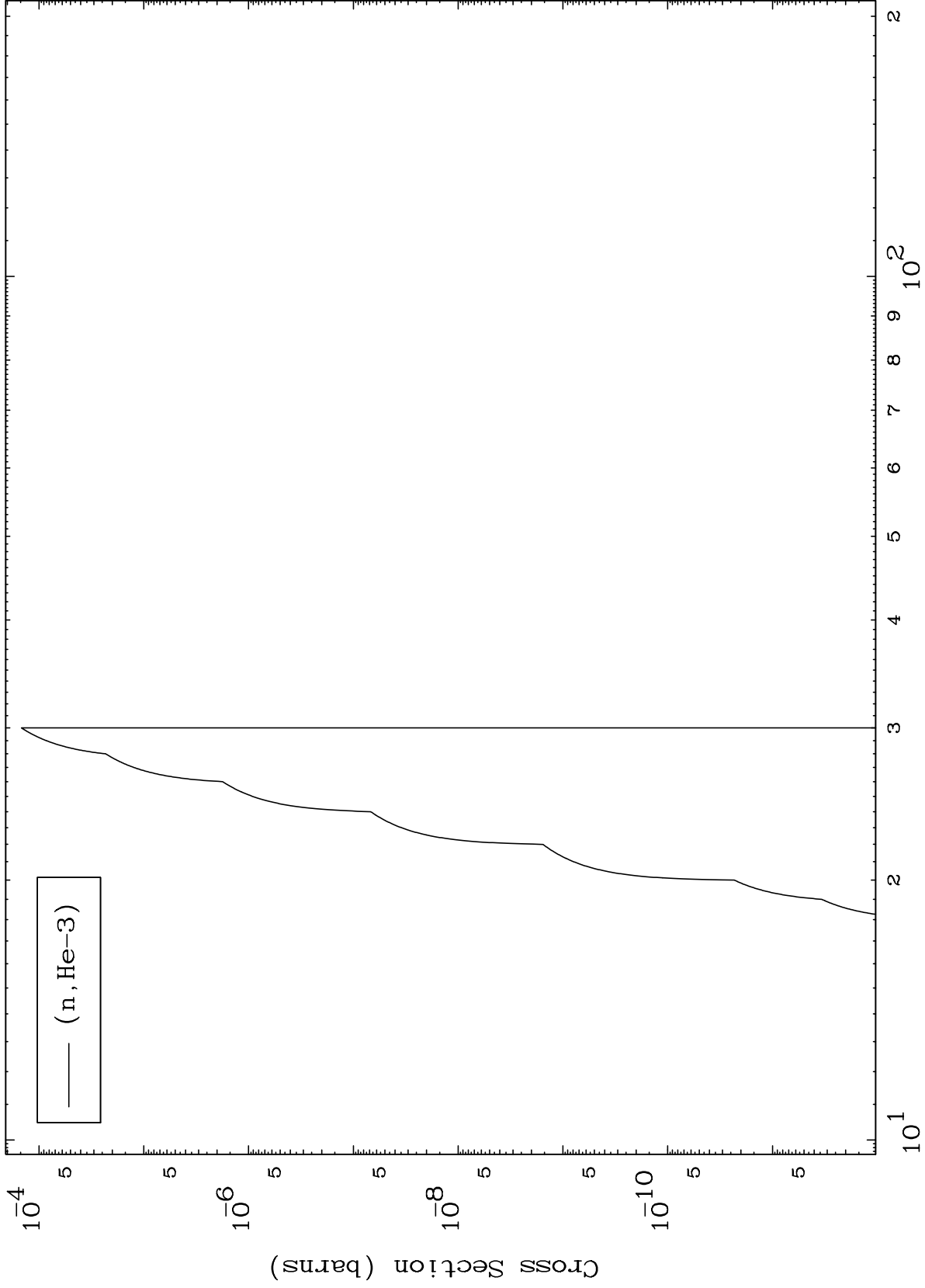
Incident Energy (MeV)

58-Ce-131

MAT 5810

58-Ce-131

($\alpha, \text{He}3$) Levels
0 Kelvin Cross Sections



58-Ce-131

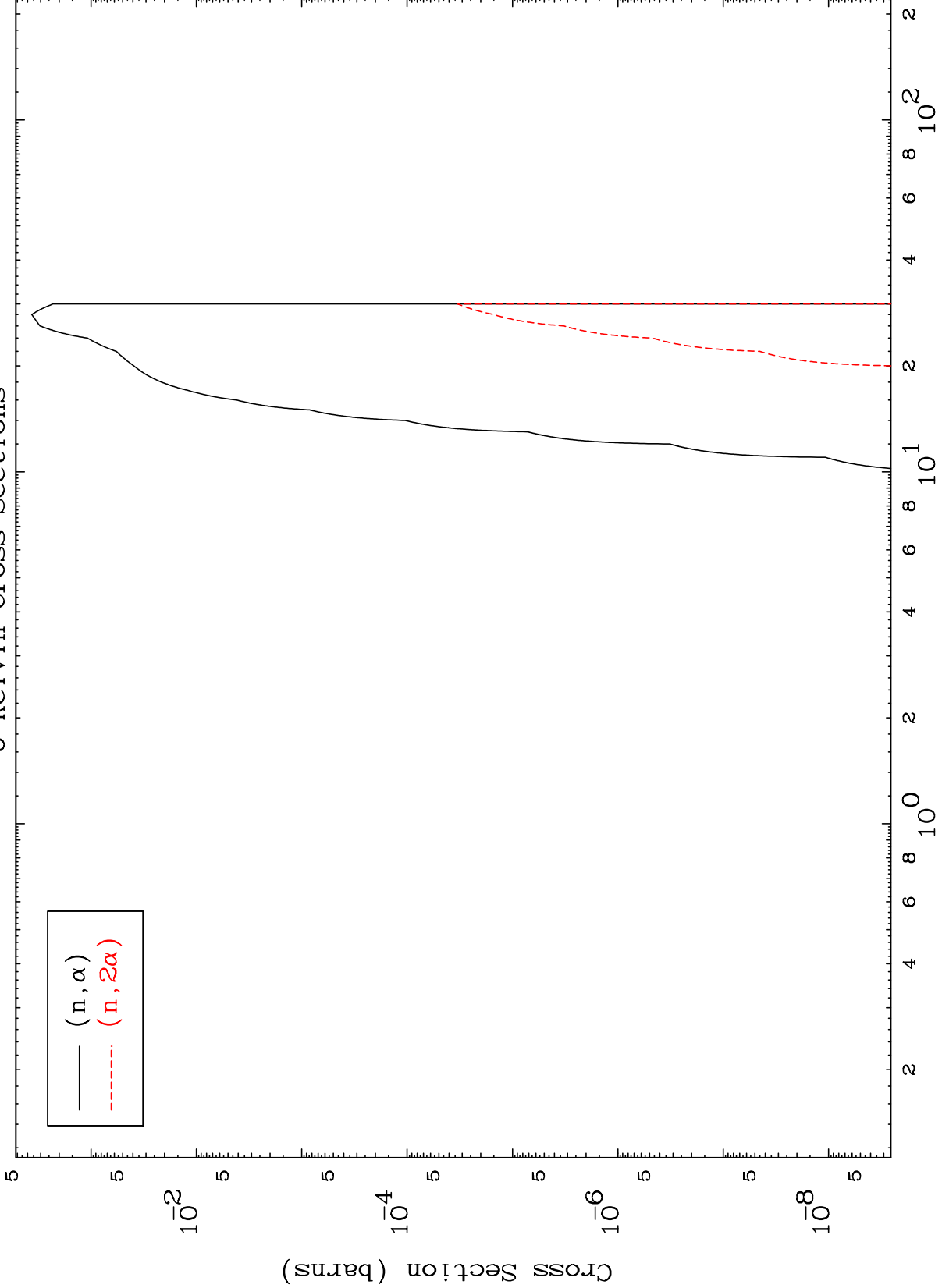
Incident Energy (MeV)

MAT 5810

(α, α) Levels

58-Ce-131

0 Kelvin Cross Sections



(n, α)
(n, 2α)

10

Incident Energy (MeV)

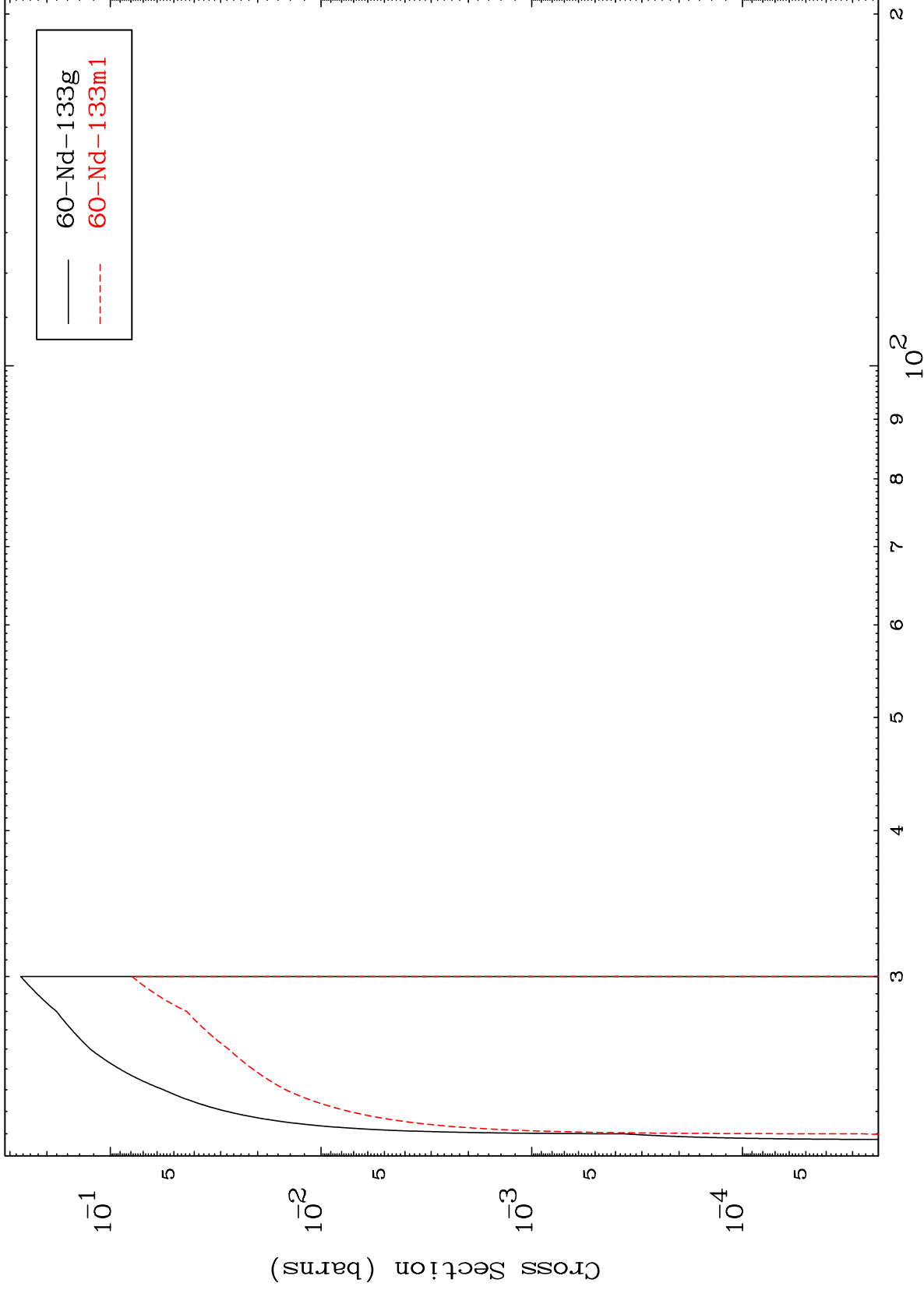
58-Ce-131

MAT 5810

(n,2n)

58-Ce-131

Radionuclide Production Cross Section

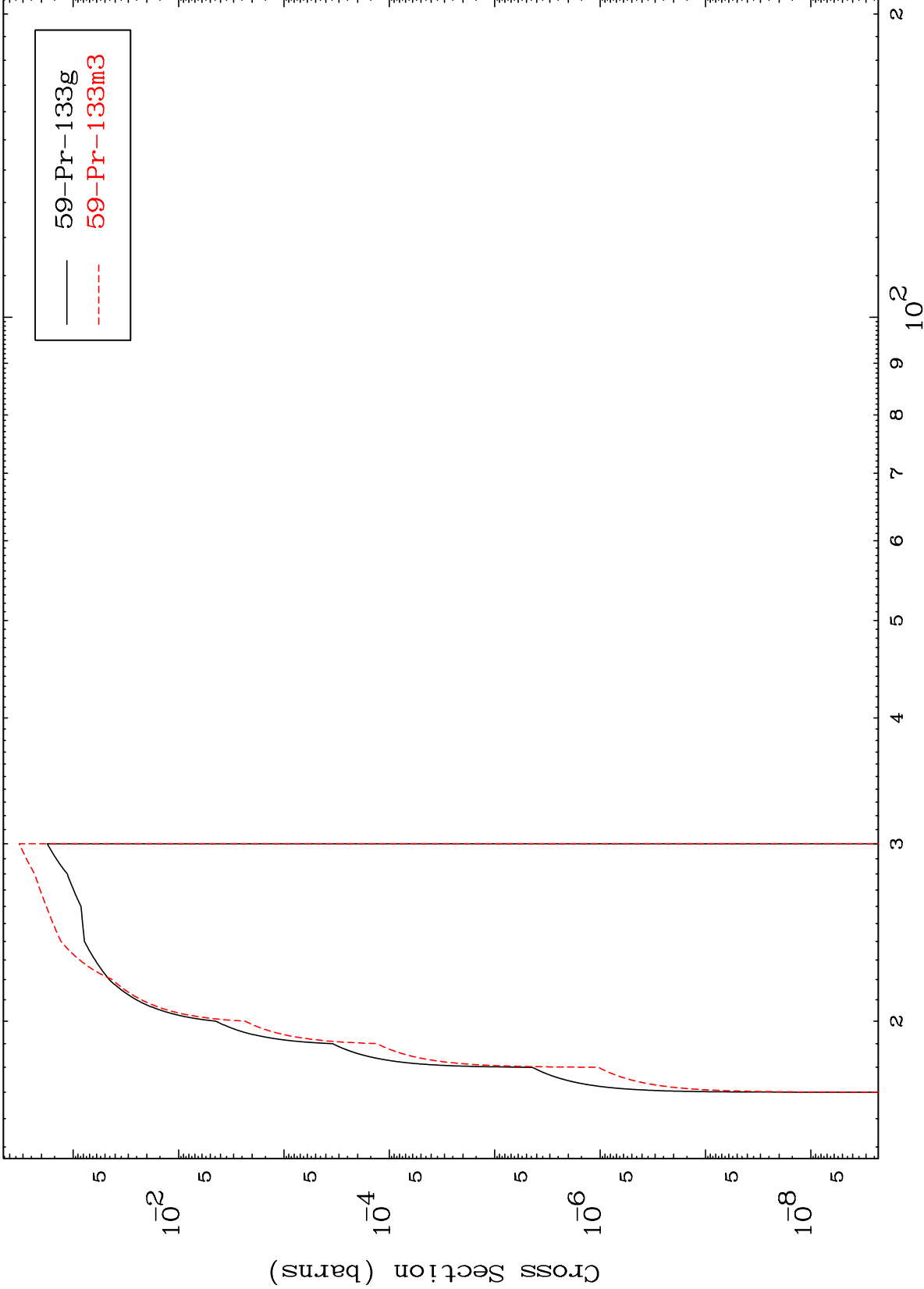


11

Incident Energy (MeV)

58-Ce-131

Radionuclide Production Cross Section



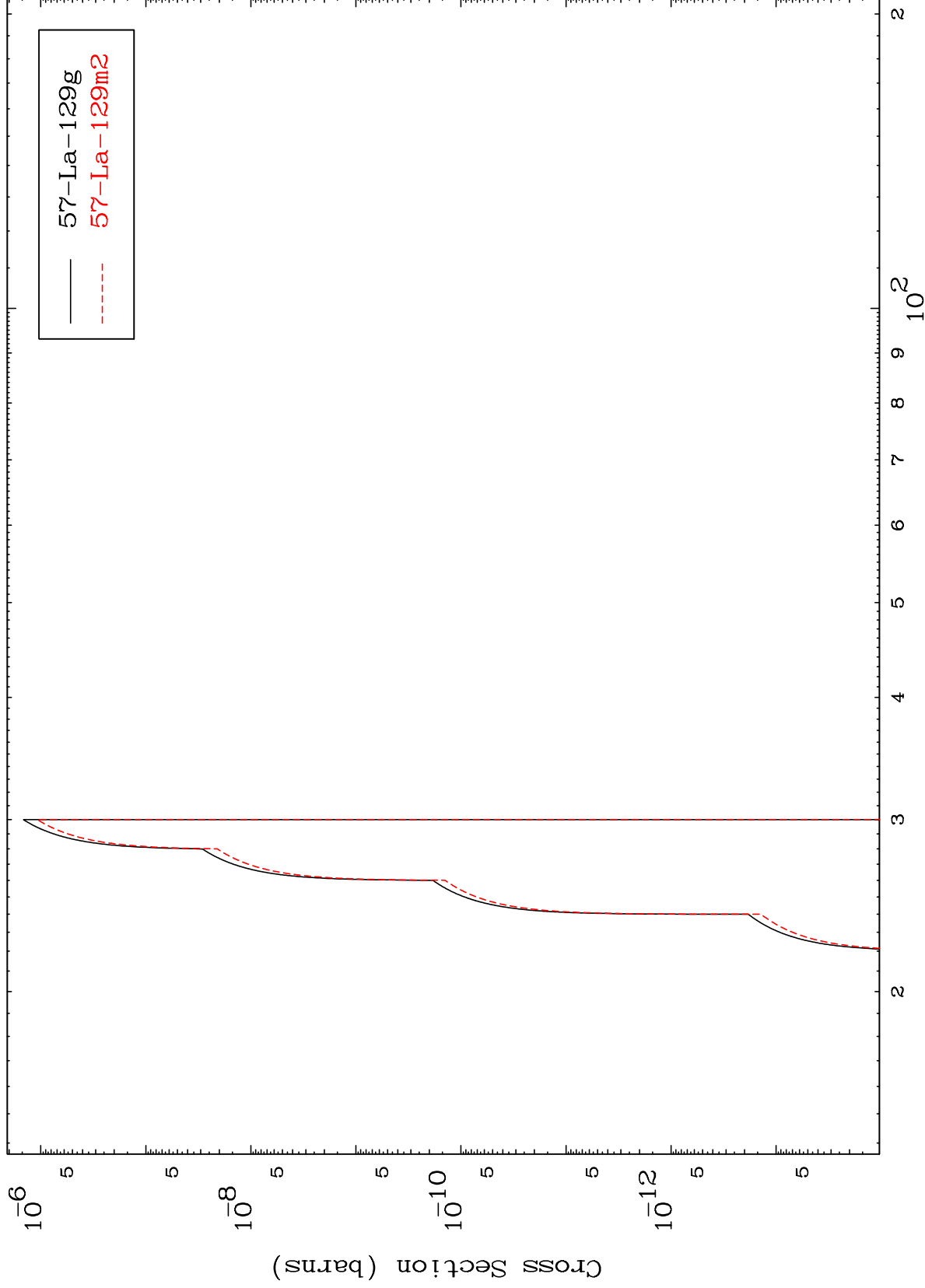
59-Pr-133g
59-Pr-133m3

MAT 5810

(n,n') p α

58-Ce-131

Radionuclide Production Cross Section



13

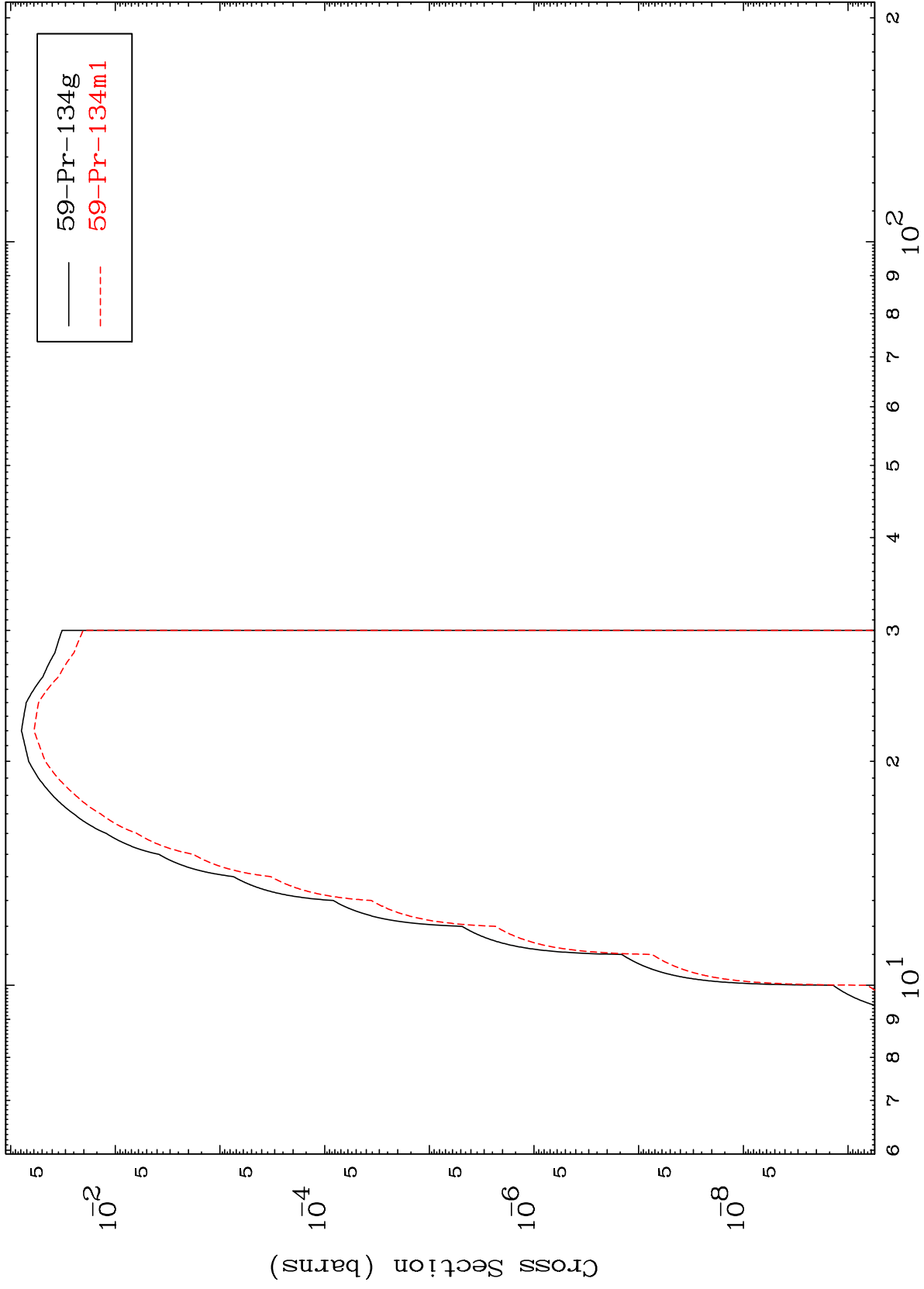
Incident Energy (MeV)

58-Ce-131

MAT 5810

58-Ce-131

(n,p)
Radionuclide Production Cross Section



14

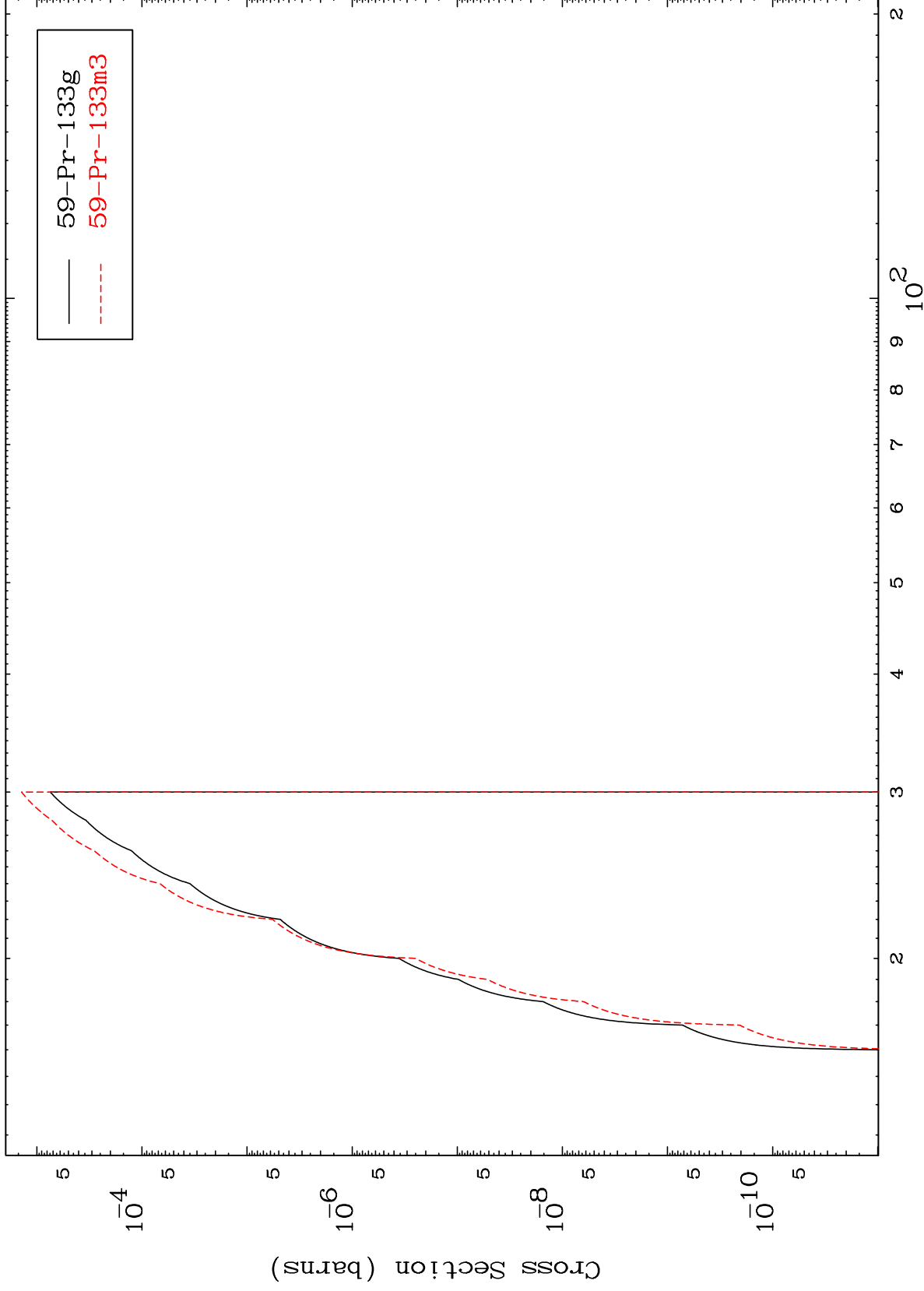
Incident Energy (MeV)

58-Ce-131

MAT 5810

58-Ce-131

(n,d)
Radionuclide Production Cross Section



15

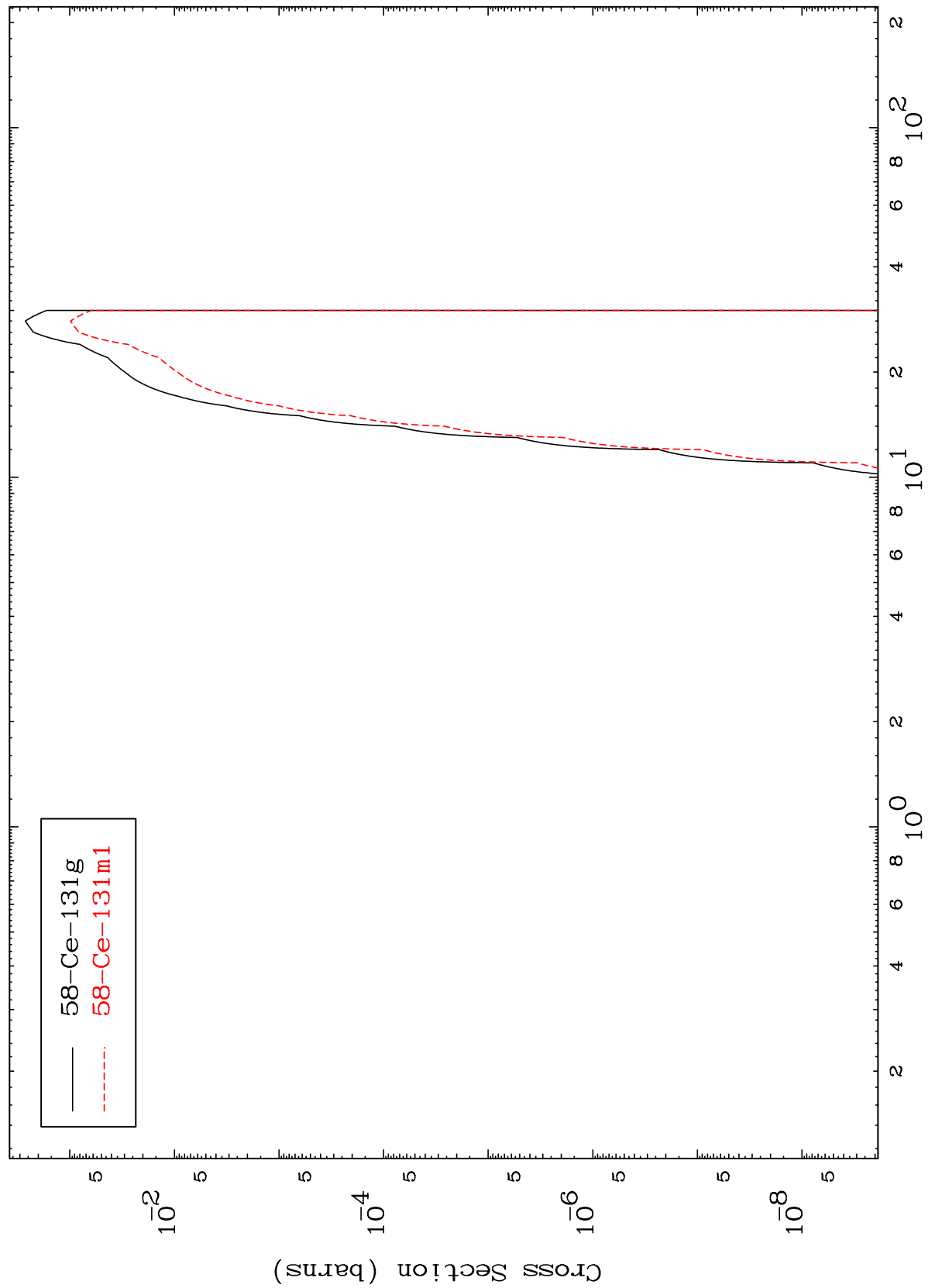
58-Ce-131

Incident Energy (MeV)

MAT 5810

58-Ce-131

Radionuclide Production Cross Section
(n, α)



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

58-Ce-131

Incident Energy (MeV)

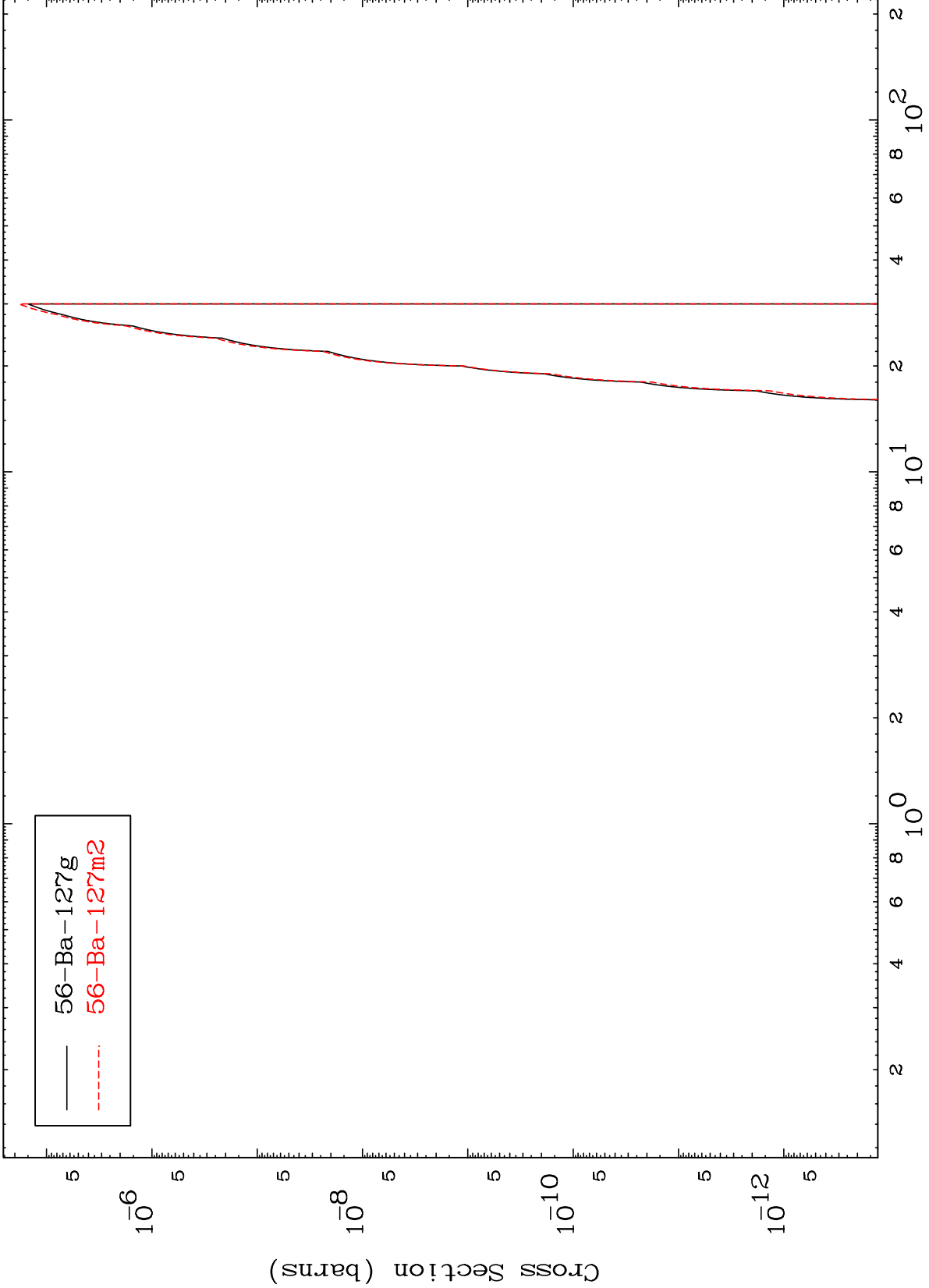
16

MAT 5810

(n,2α)

58-Ce-131

Radionuclide Production Cross Section



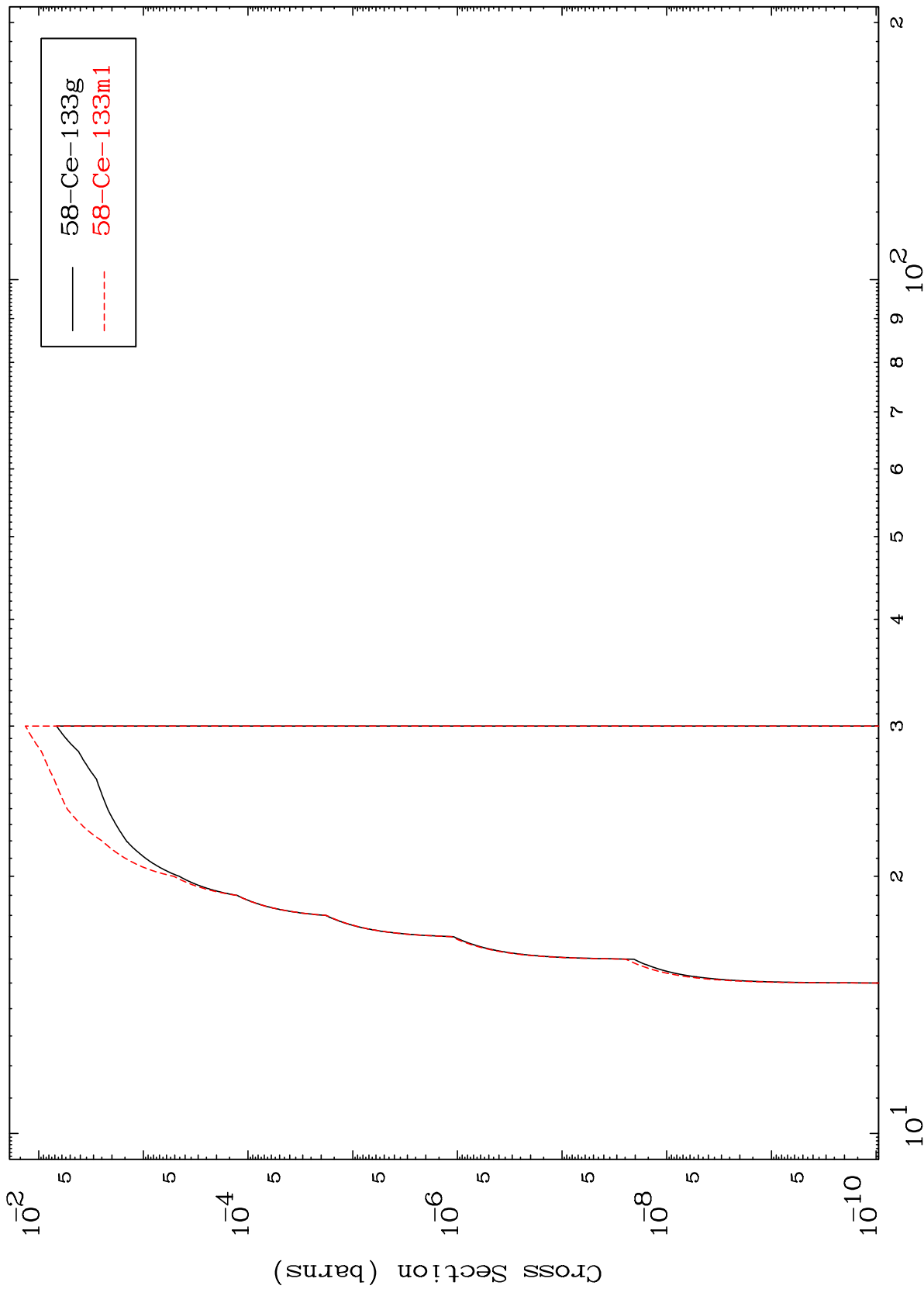
56-Ba-127g
56-Ba-127m2

MAT 5810

58-Ce-131

(n,2p)

Radionuclide Production Cross Section



58-Ce-131

Incident Energy (MeV)

18

10^1

2

4

5

6

7

8

9

10^2

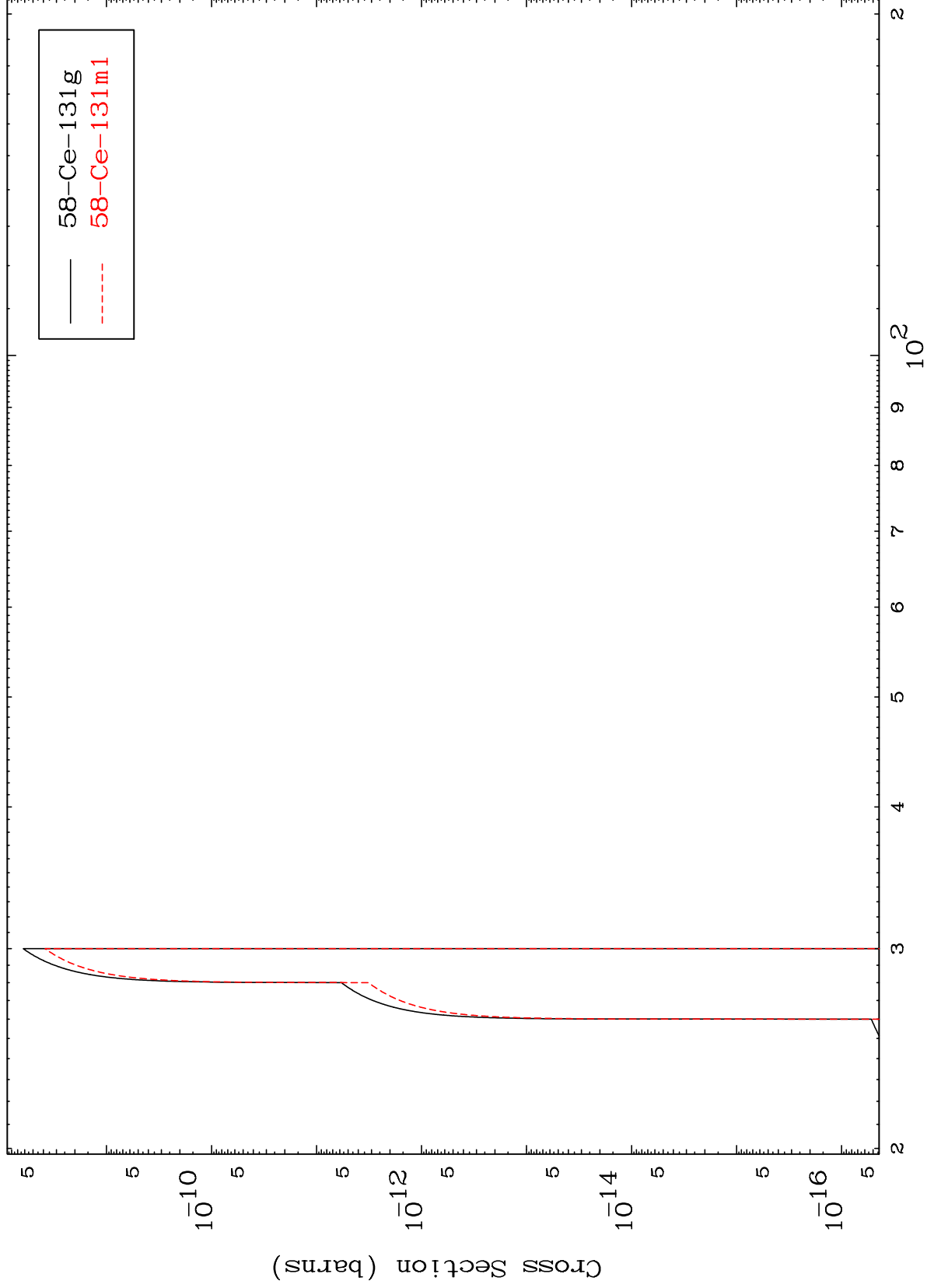
2

MAT 5810

(n,p) t

58-Ce-131

Radionuclide Production Cross Section



19

Incident Energy (MeV)

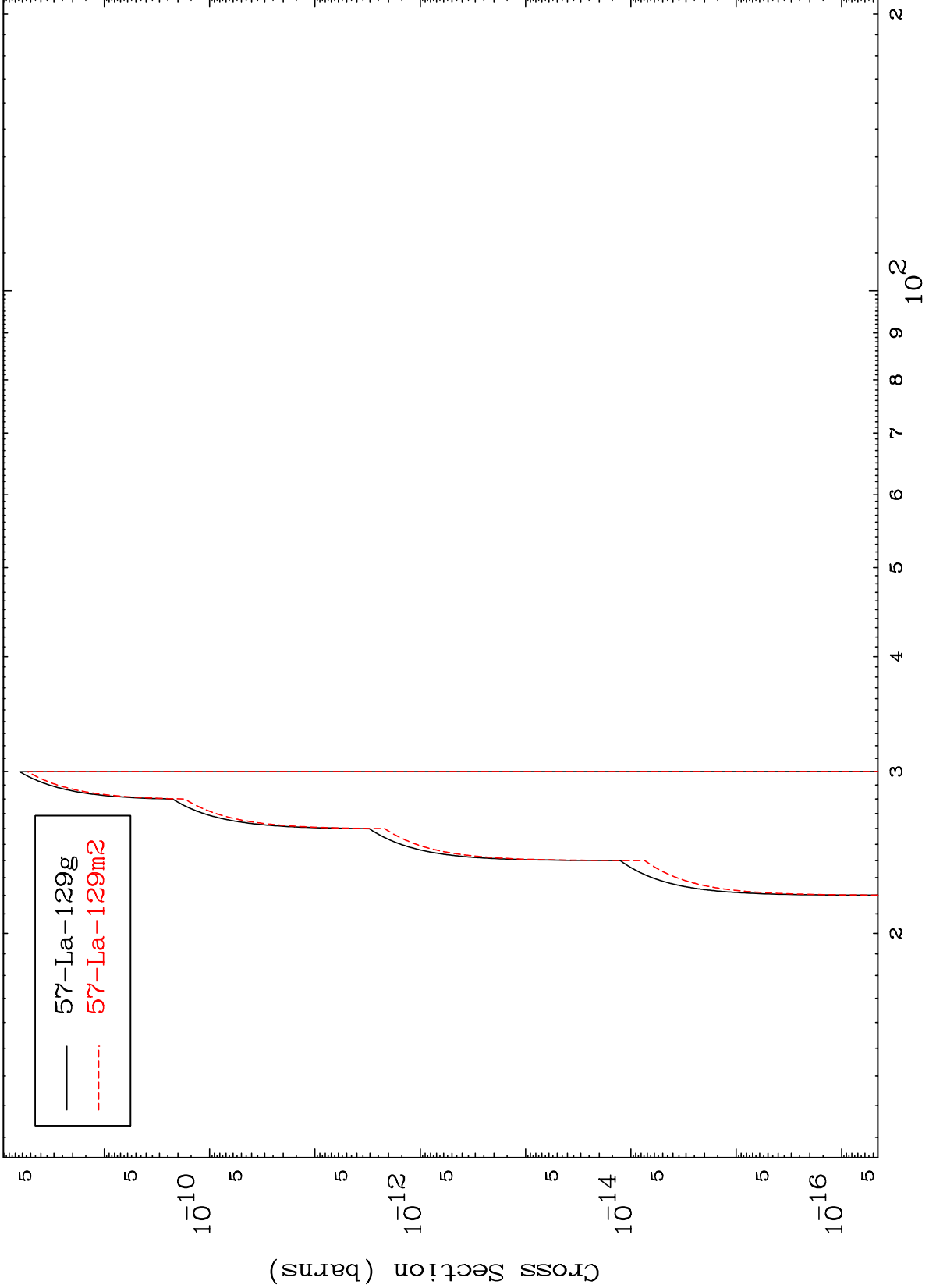
58-Ce-131

MAT 5810

(n,d) α

58-Ce-131

Radionuclide Production Cross Section



20

Incident Energy (MeV)

58-Ce-131