

Program EVALPLOT
(Version 2021-1)

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

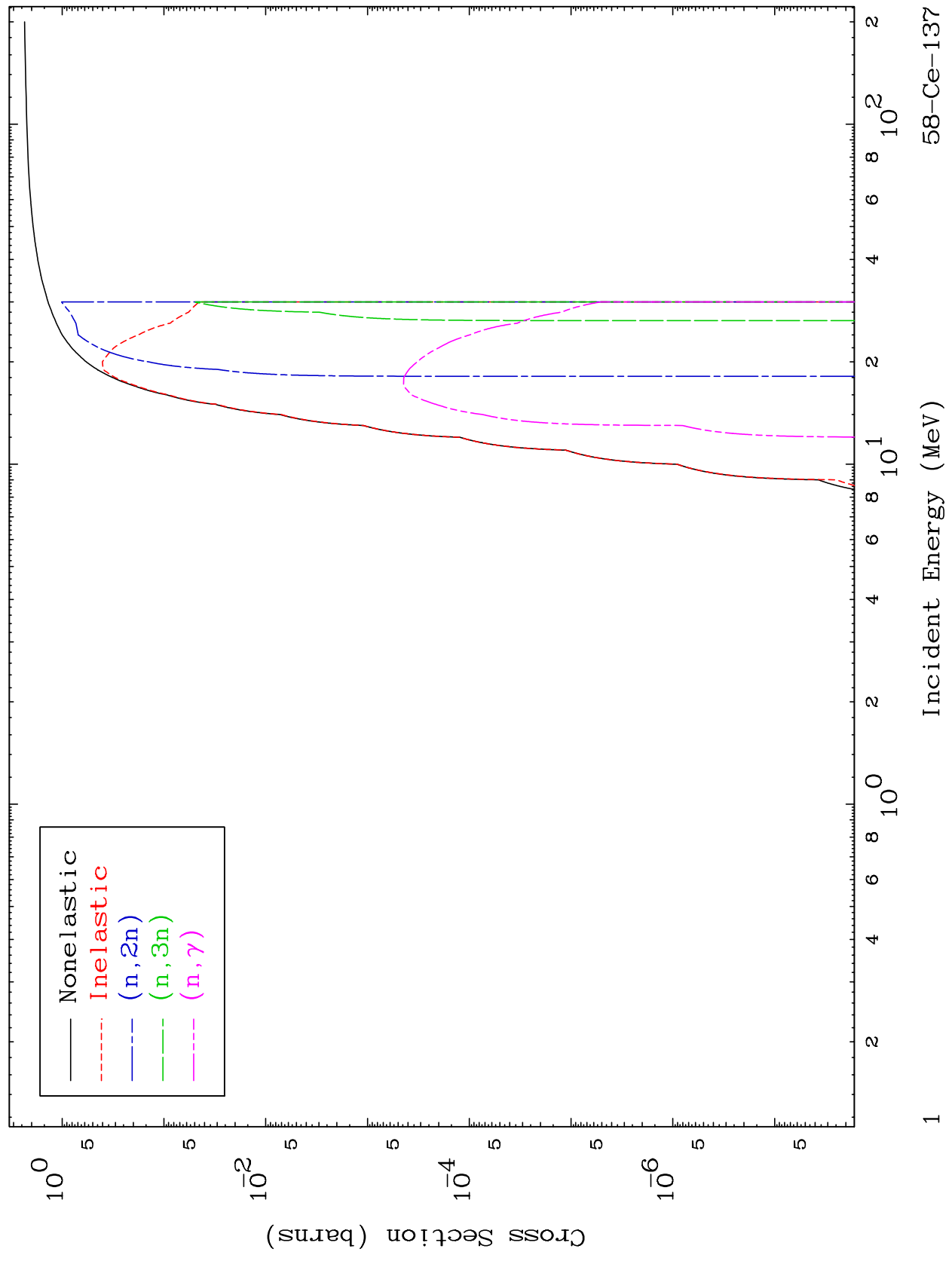
Press Mouse Button to Start

MAT 5828

0 Kelvin

α Major Cross Sections

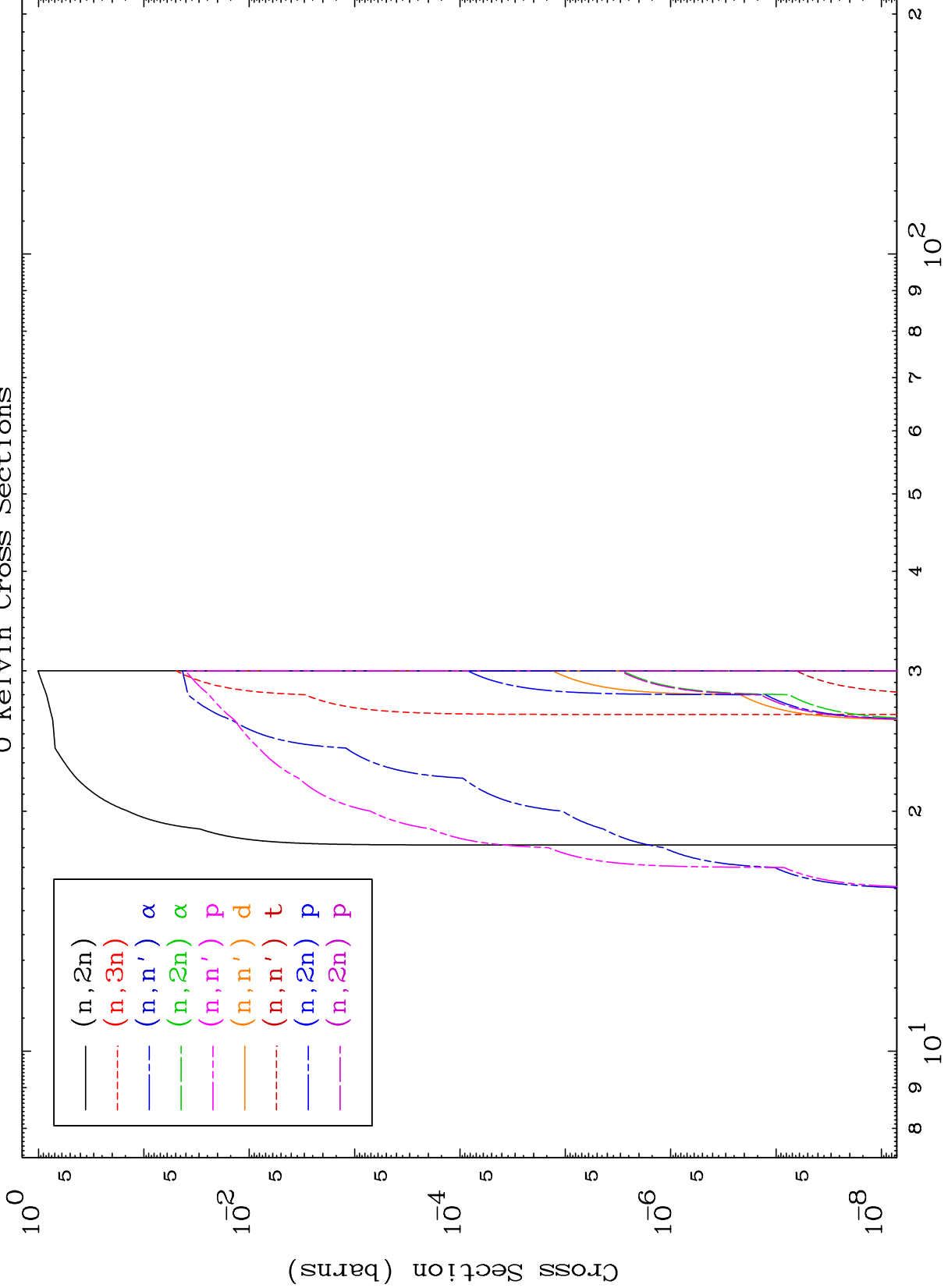
58-Ce-137



MAT 5828

α Neutron Absorption
0 Kelvin Cross Sections

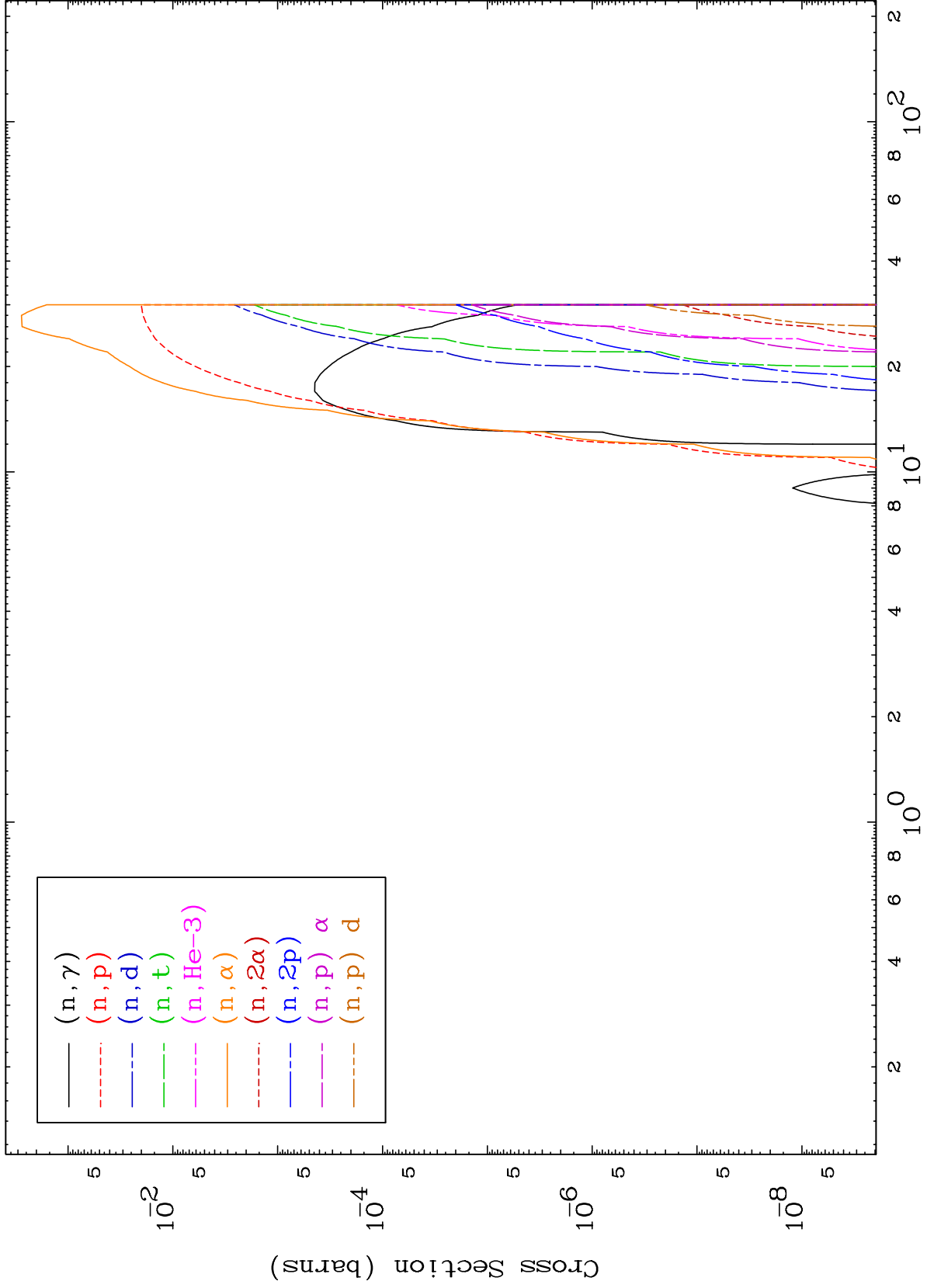
58-Ce-137

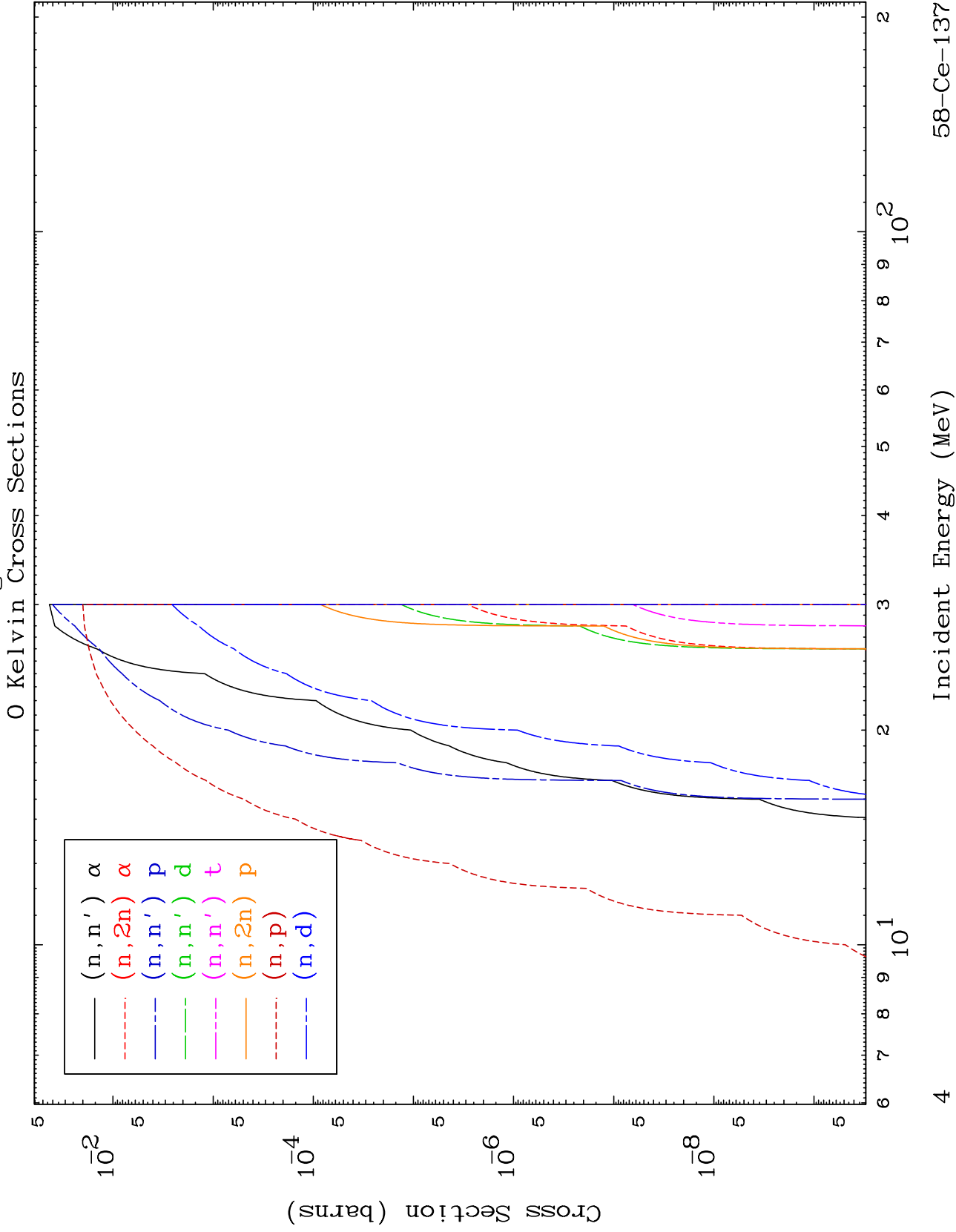


2

Incident Energy (MeV)

58-Ce-137

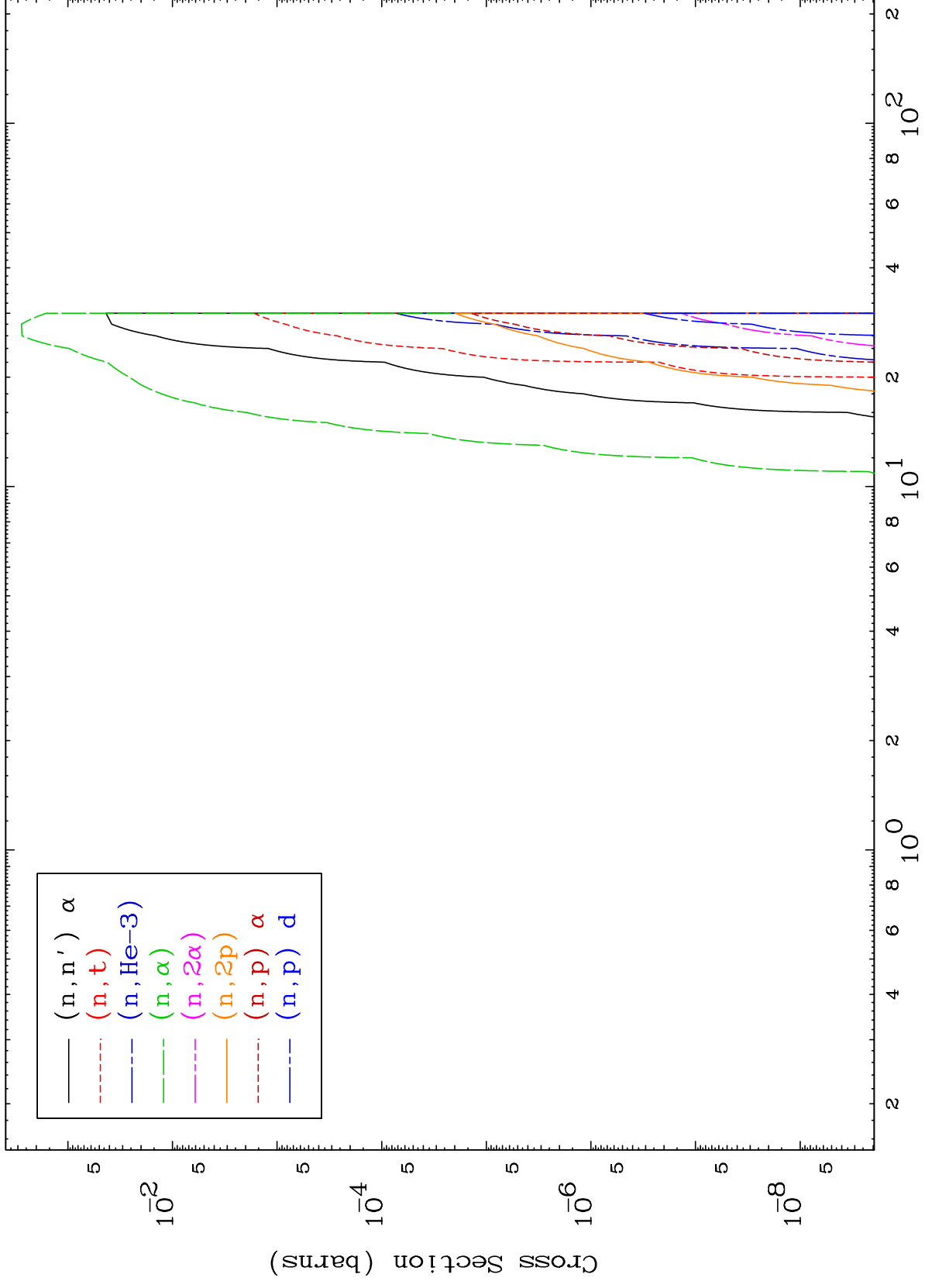




MAT 5828

α Charged Particle
0 Kelvin Cross Sections

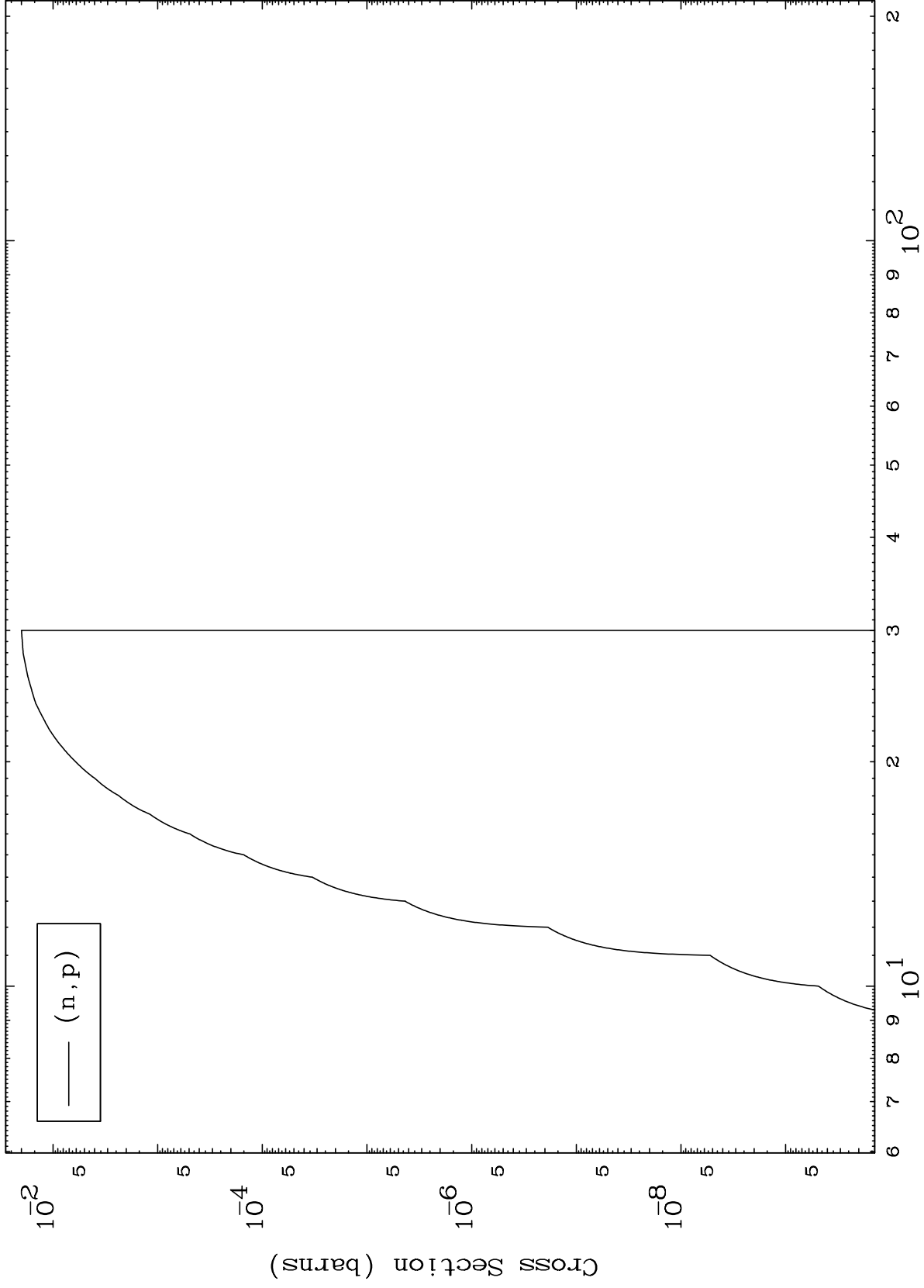
58-Ce-137



MAT 5828

(α, p) Levels
0 Kelvin Cross Sections

58-Ce-137



6

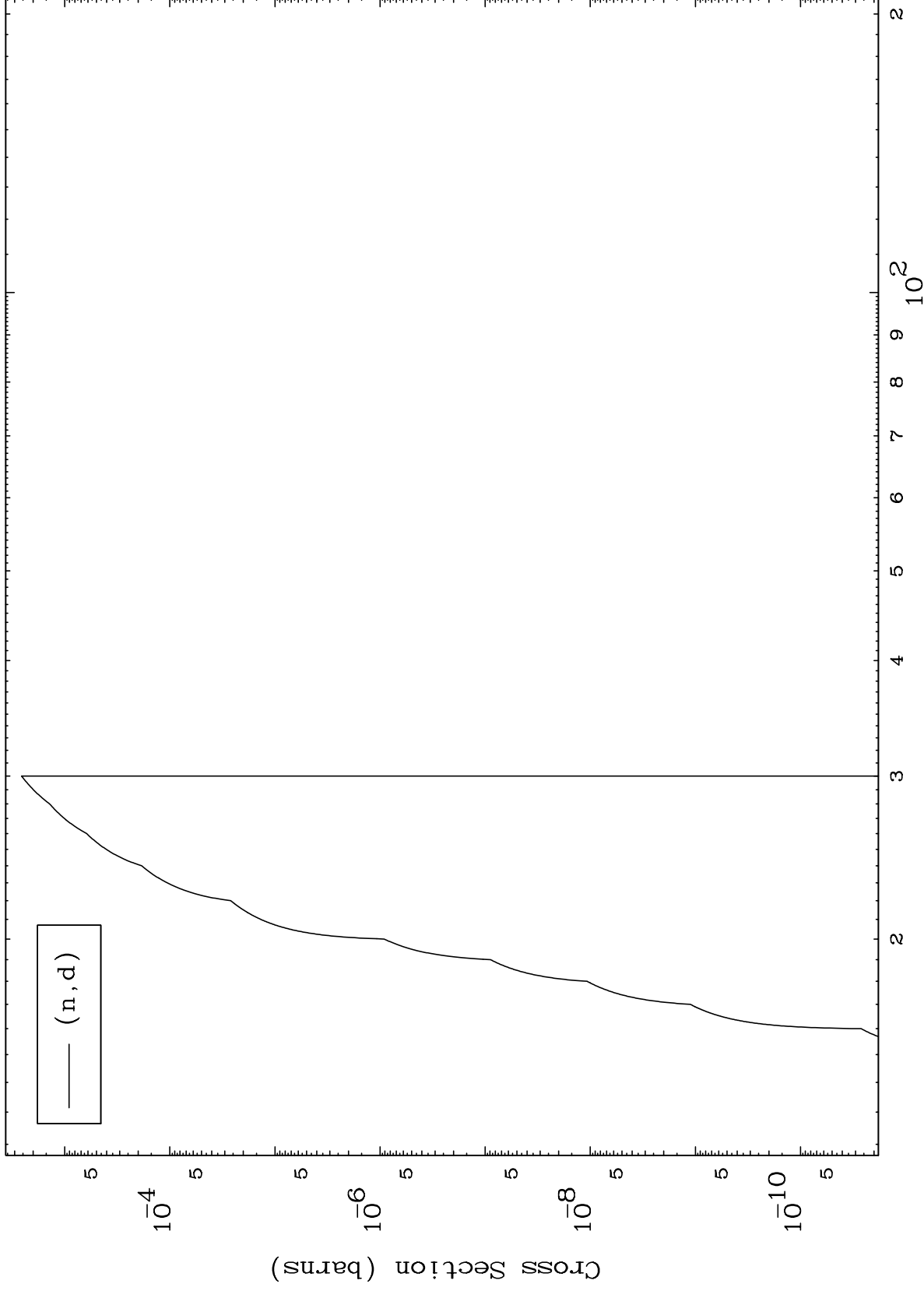
Incident Energy (MeV)

58-Ce-137

MAT 5828

(α, d) Levels
0 Kelvin Cross Sections

58-Ce-137



7

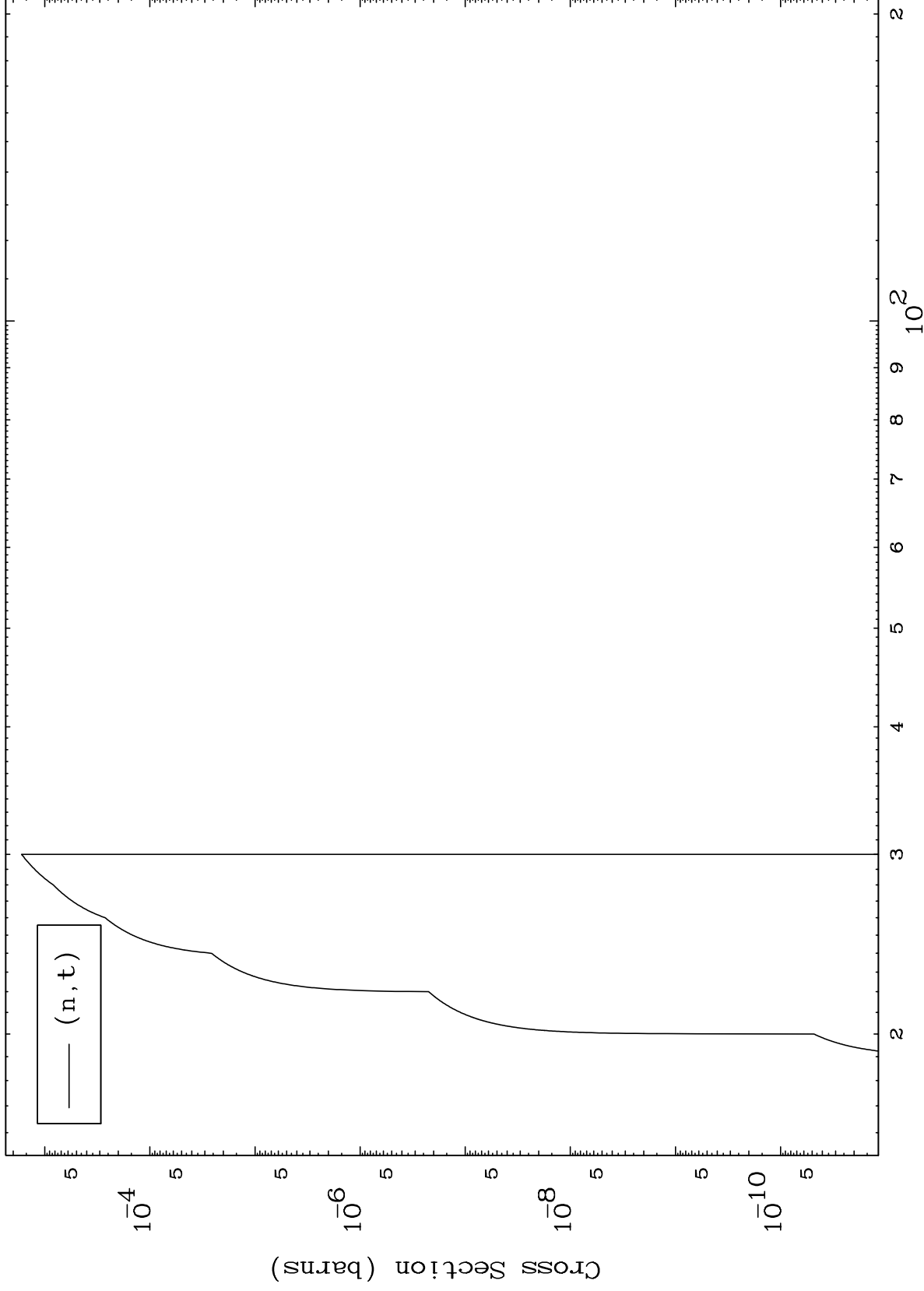
Incident Energy (MeV)

58-Ce-137

MAT 5828

(α, t) Levels
0 Kelvin Cross Sections

58-Ce-137



8

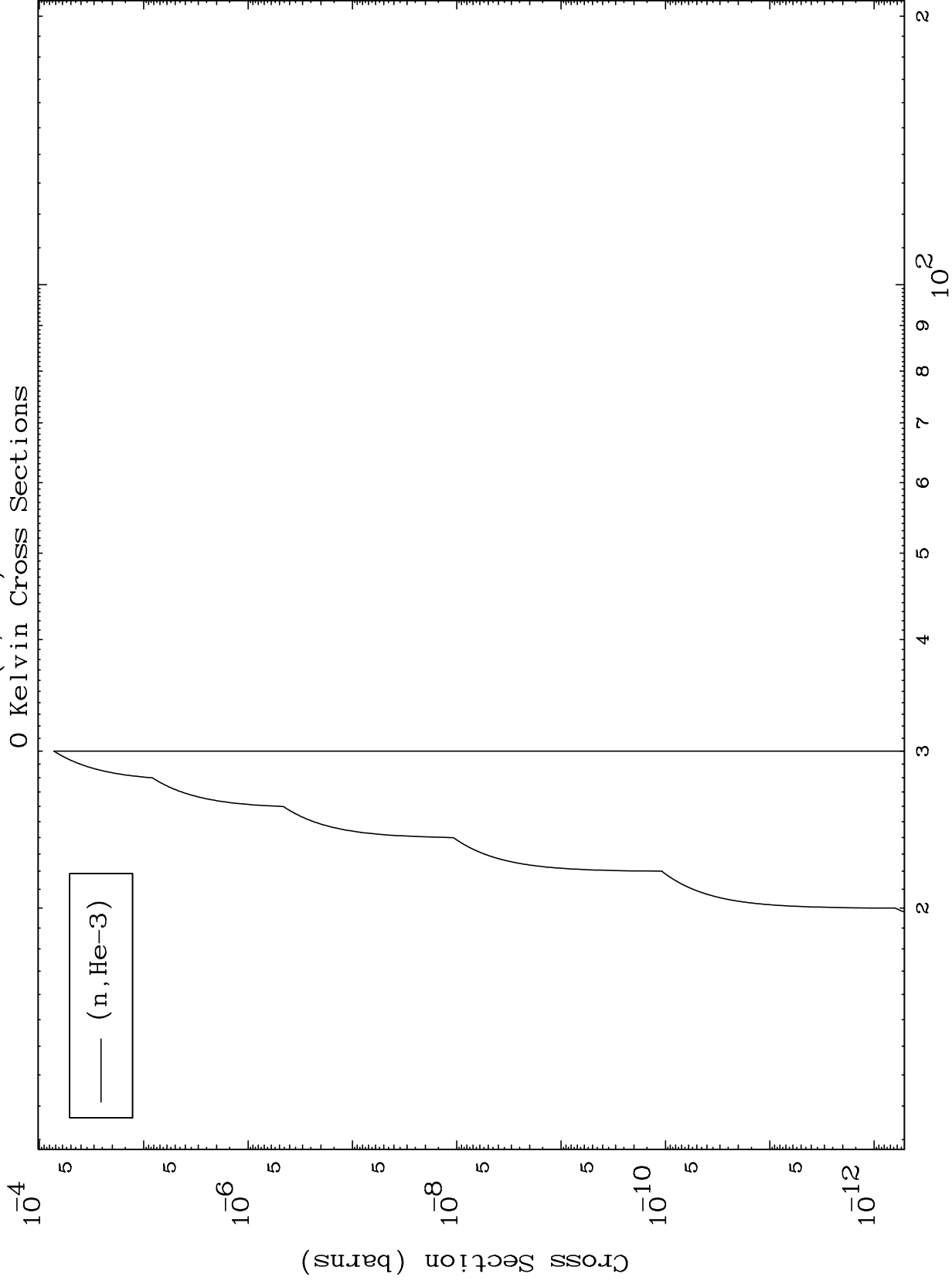
Incident Energy (MeV)

58-Ce-137

MAT 5828

($\alpha, \text{He3}$) Levels
0 Kelvin Cross Sections

58-Ce-137



9

Incident Energy (MeV)

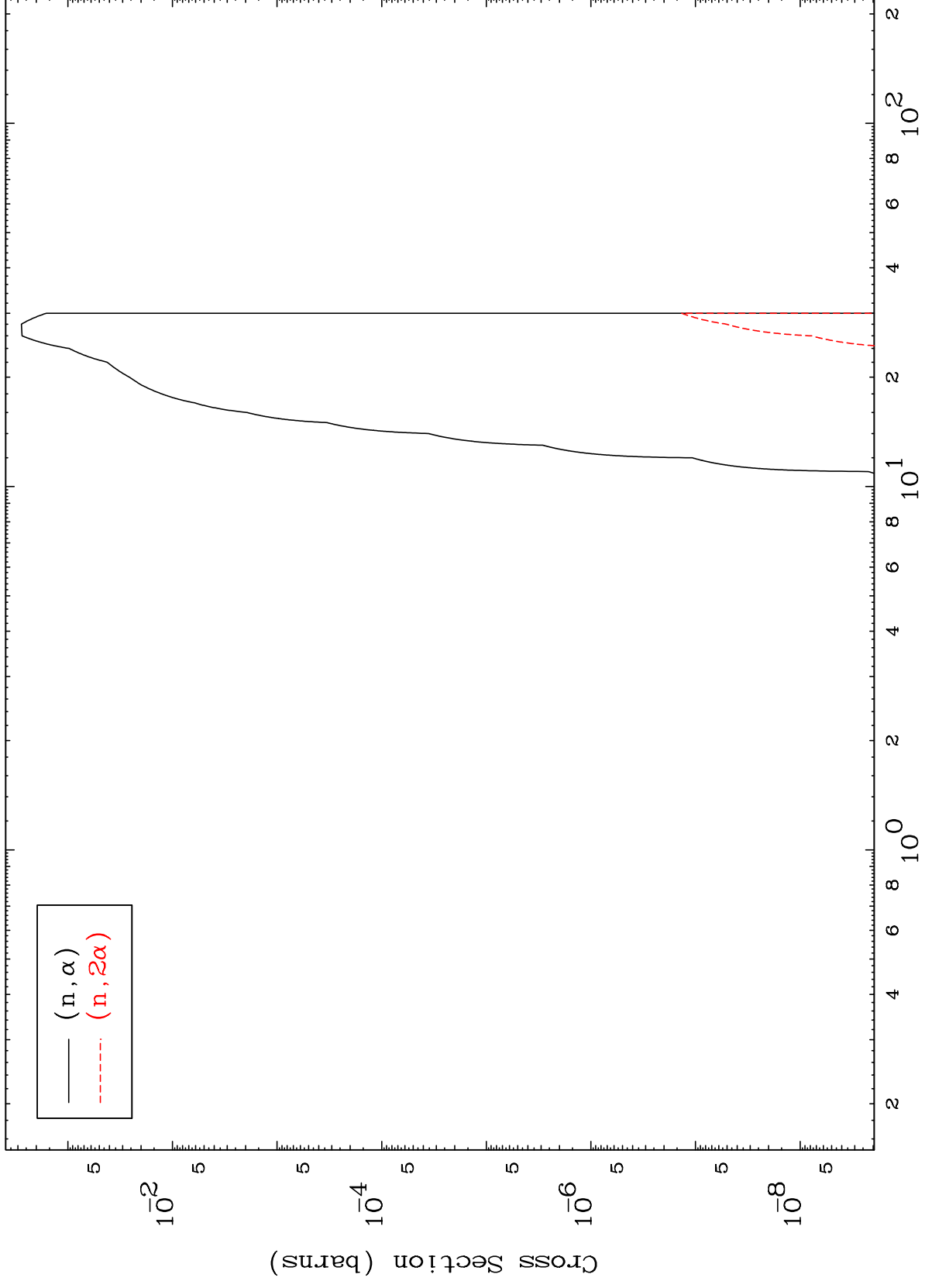
58-Ce-137

MAT 5828

(α, α) Levels

58-Ce-137

0 Kelvin Cross Sections



— (n, α)
- - - (n, 2α)

10

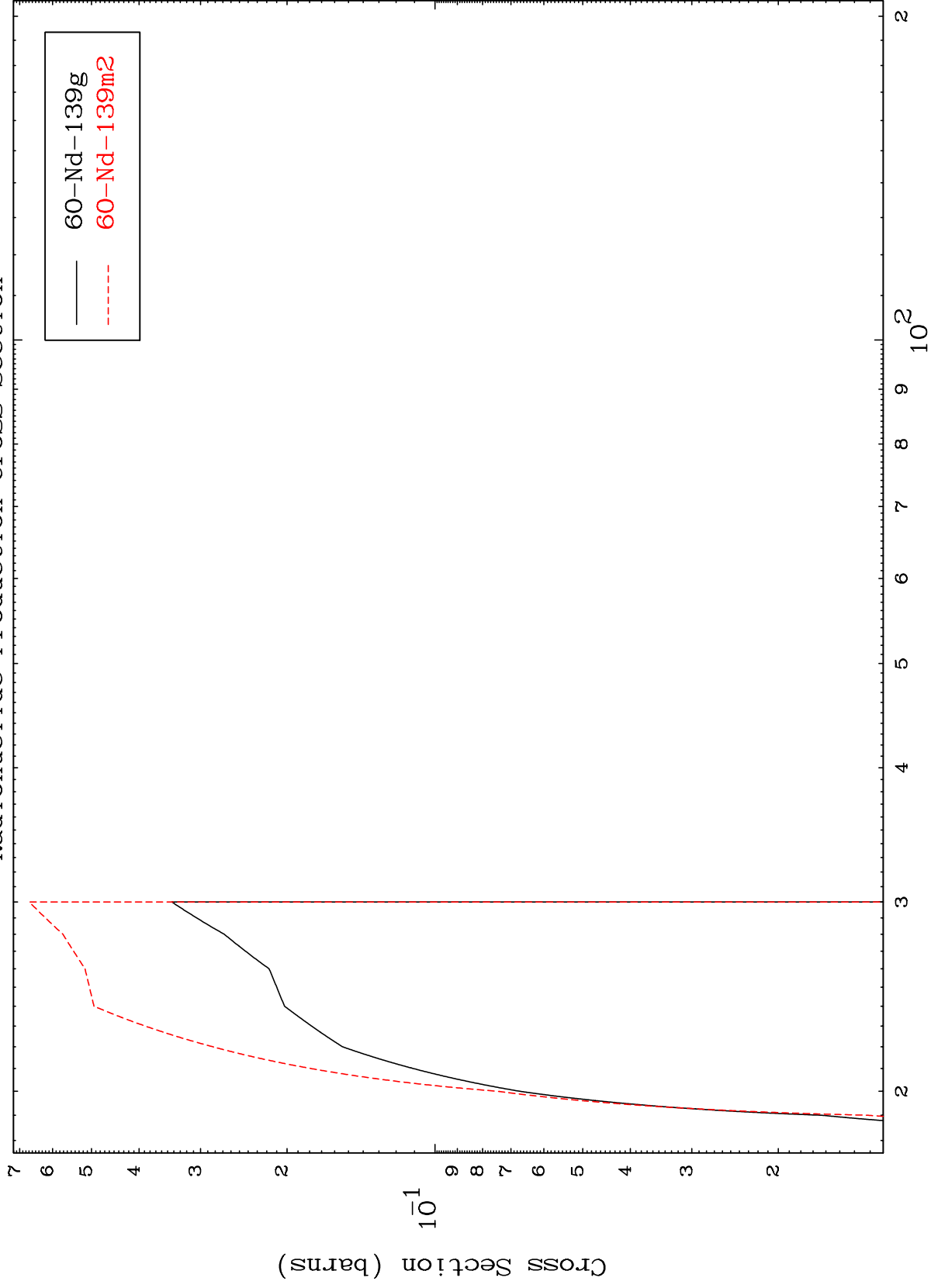
Incident Energy (MeV)

58-Ce-137

MAT 5828

58-Ce-137

(n,2n)
Radionuclide Production Cross Section



11

Incident Energy (MeV)

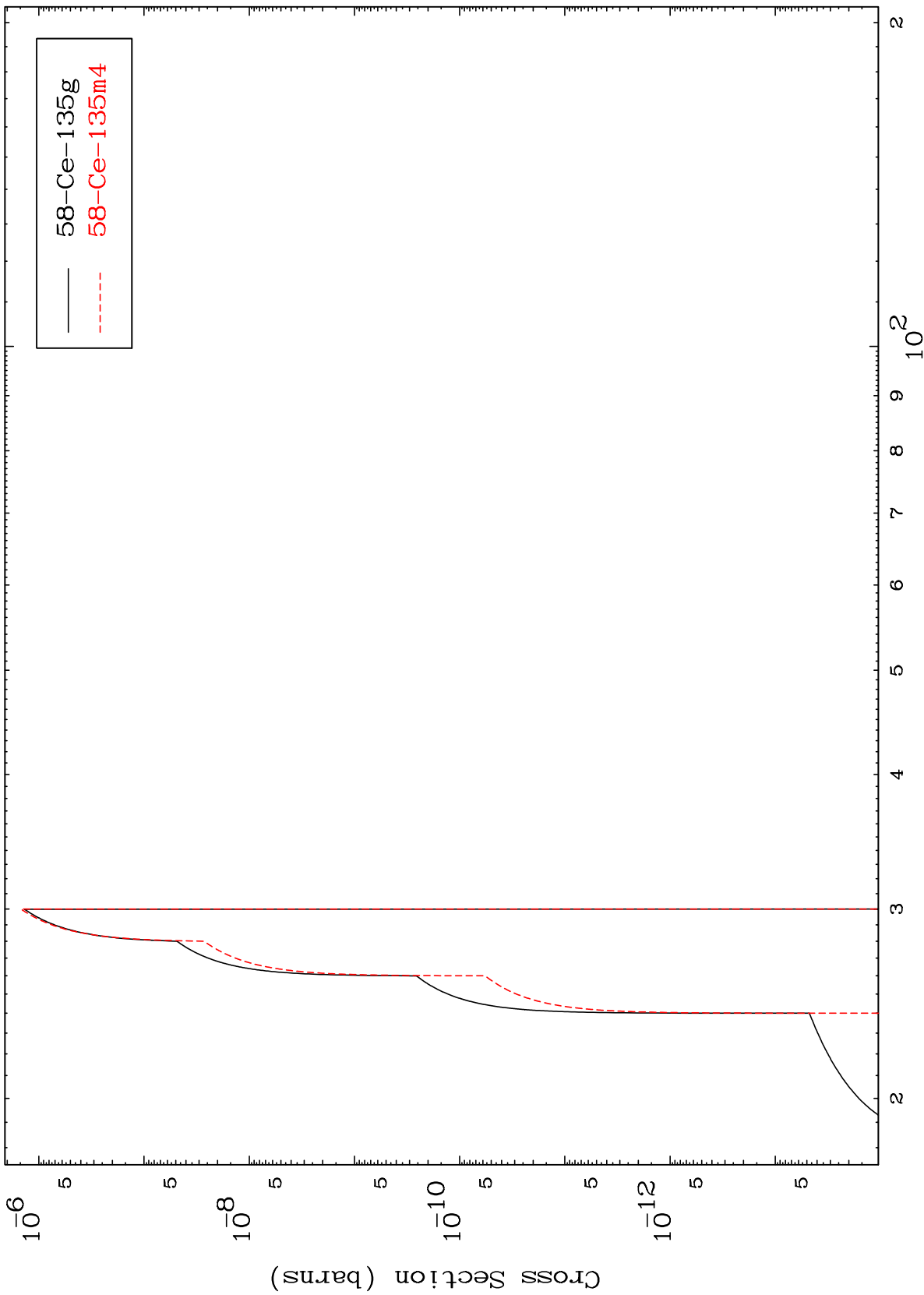
58-Ce-137

MAT 5828

(n,2n) α

58-Ce-137

Radionuclide Production Cross Section



12

Incident Energy (MeV)

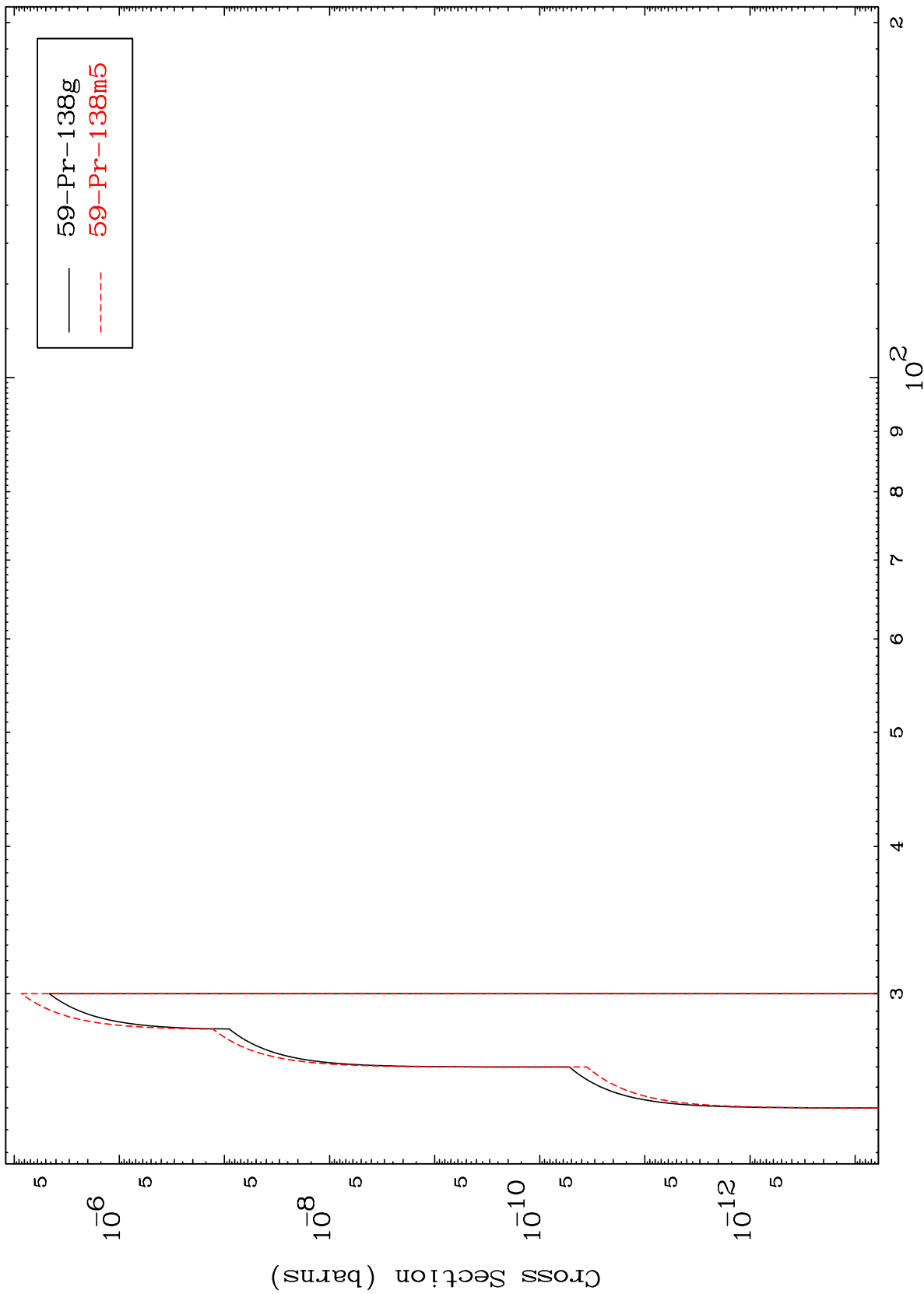
58-Ce-137

MAT 5828

(n,n') d

58-Ce-137

Radionuclide Production Cross Section



13

Incident Energy (MeV)

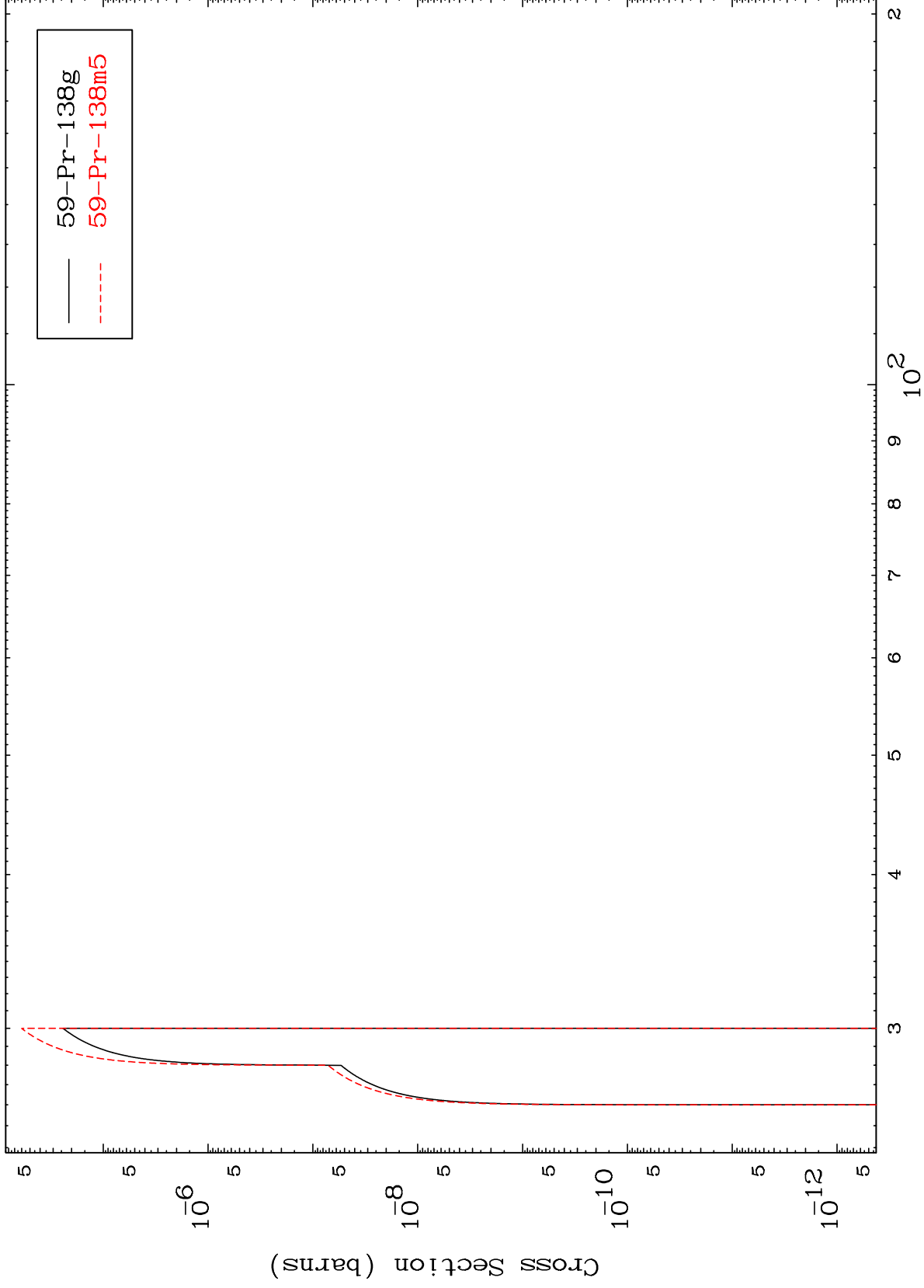
58-Ce-137

MAT 5828

(n,2n) p

58-Ce-137

Radionuclide Production Cross Section



14

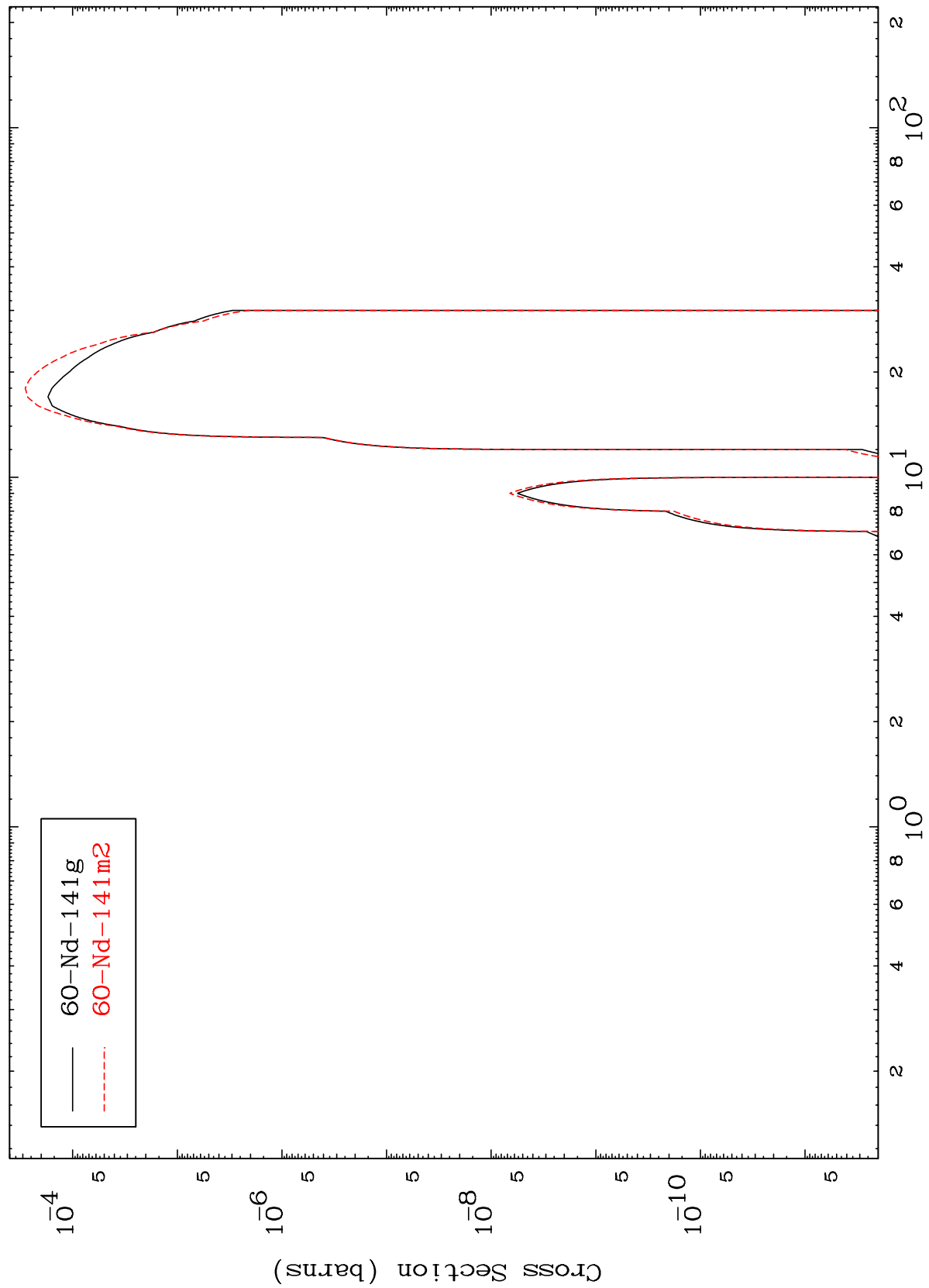
Incident Energy (MeV)

58-Ce-137

MAT 5828

58-Ce-137

(n, γ)
Radionuclide Production Cross Section



58-Ce-137

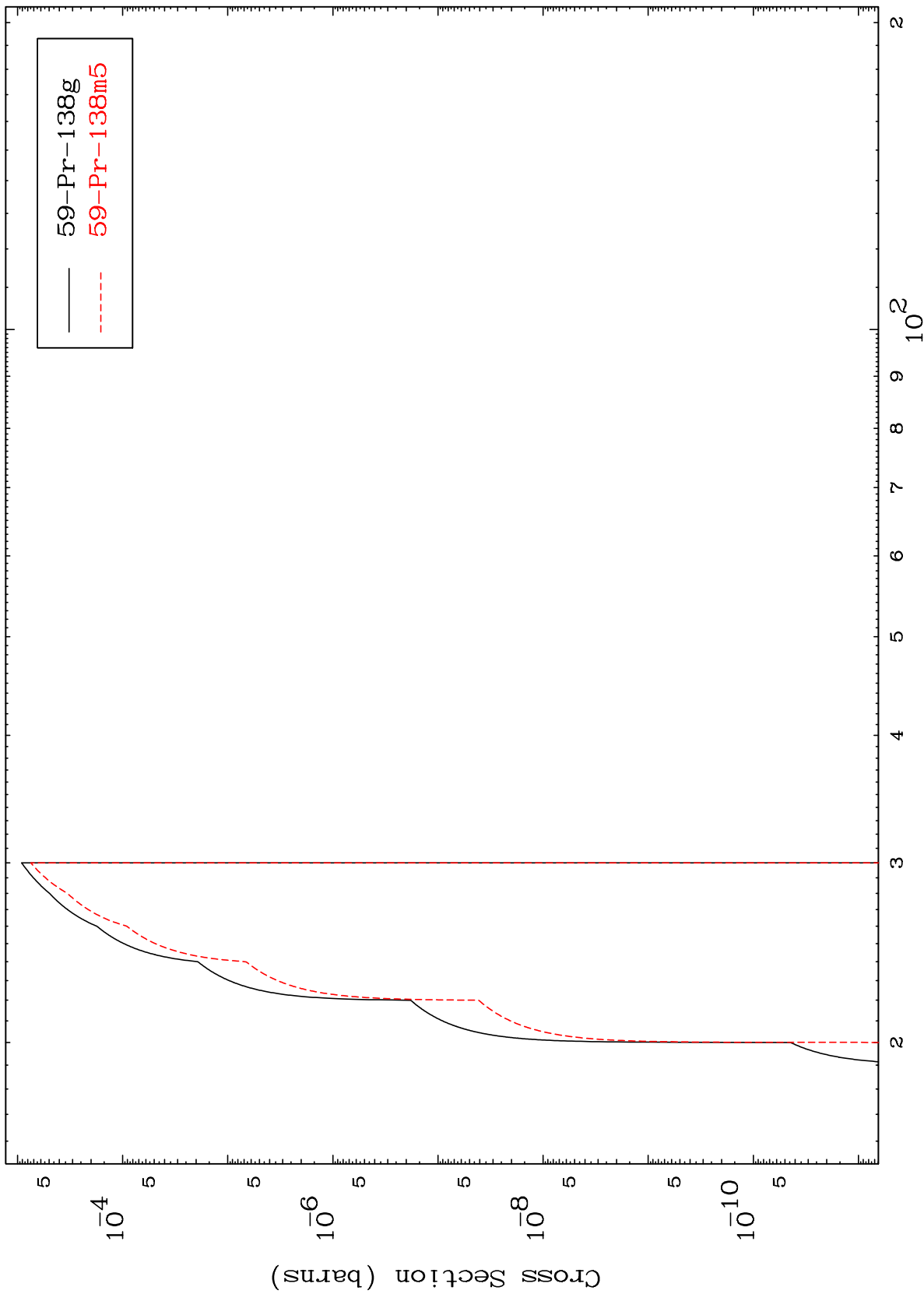
Incident Energy (MeV)

15

MAT 5828

58-Ce-137

(n,t)
Radionuclide Production Cross Section



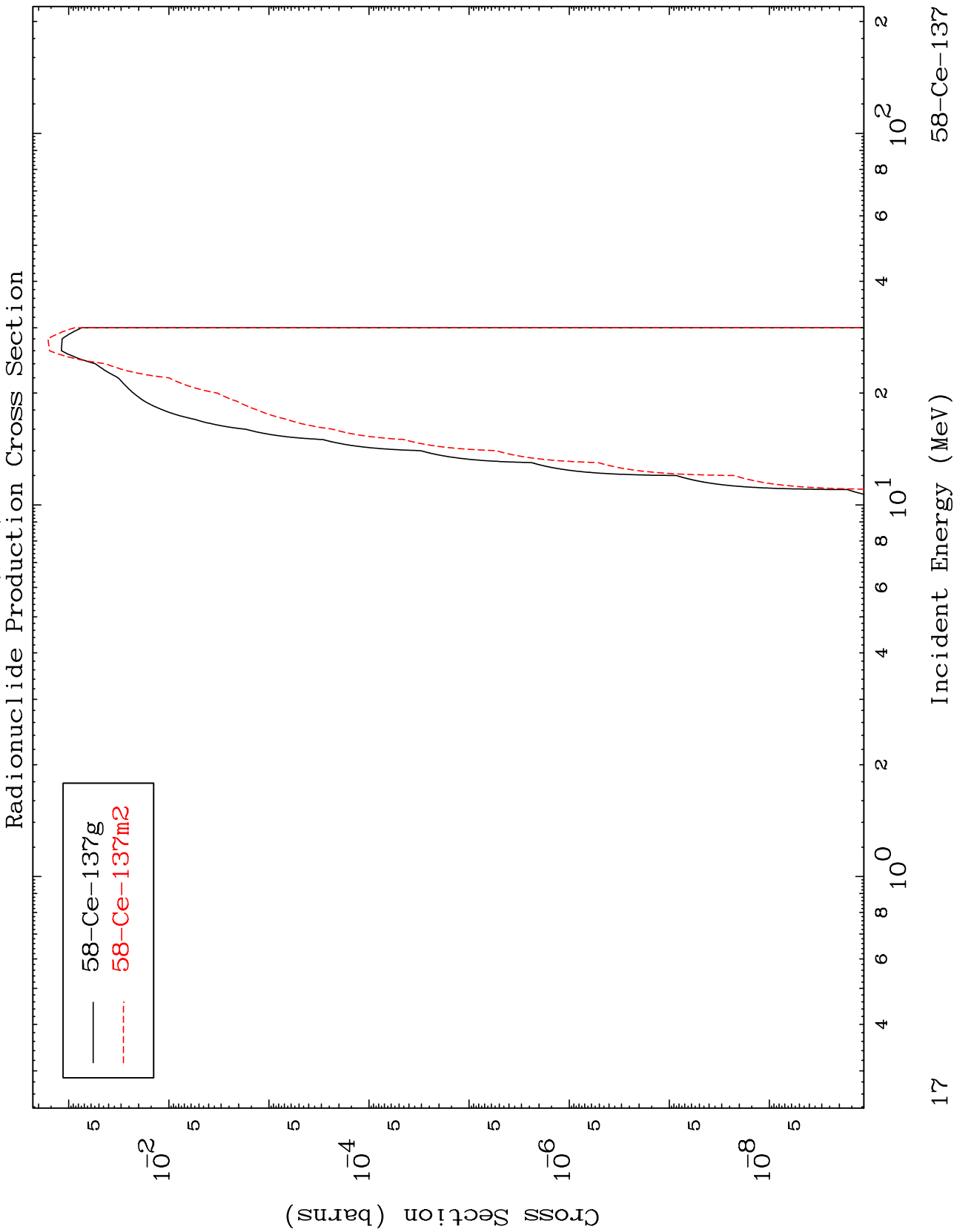
16

58-Ce-137

Incident Energy (MeV)

MAT 5828

58-Ce-137

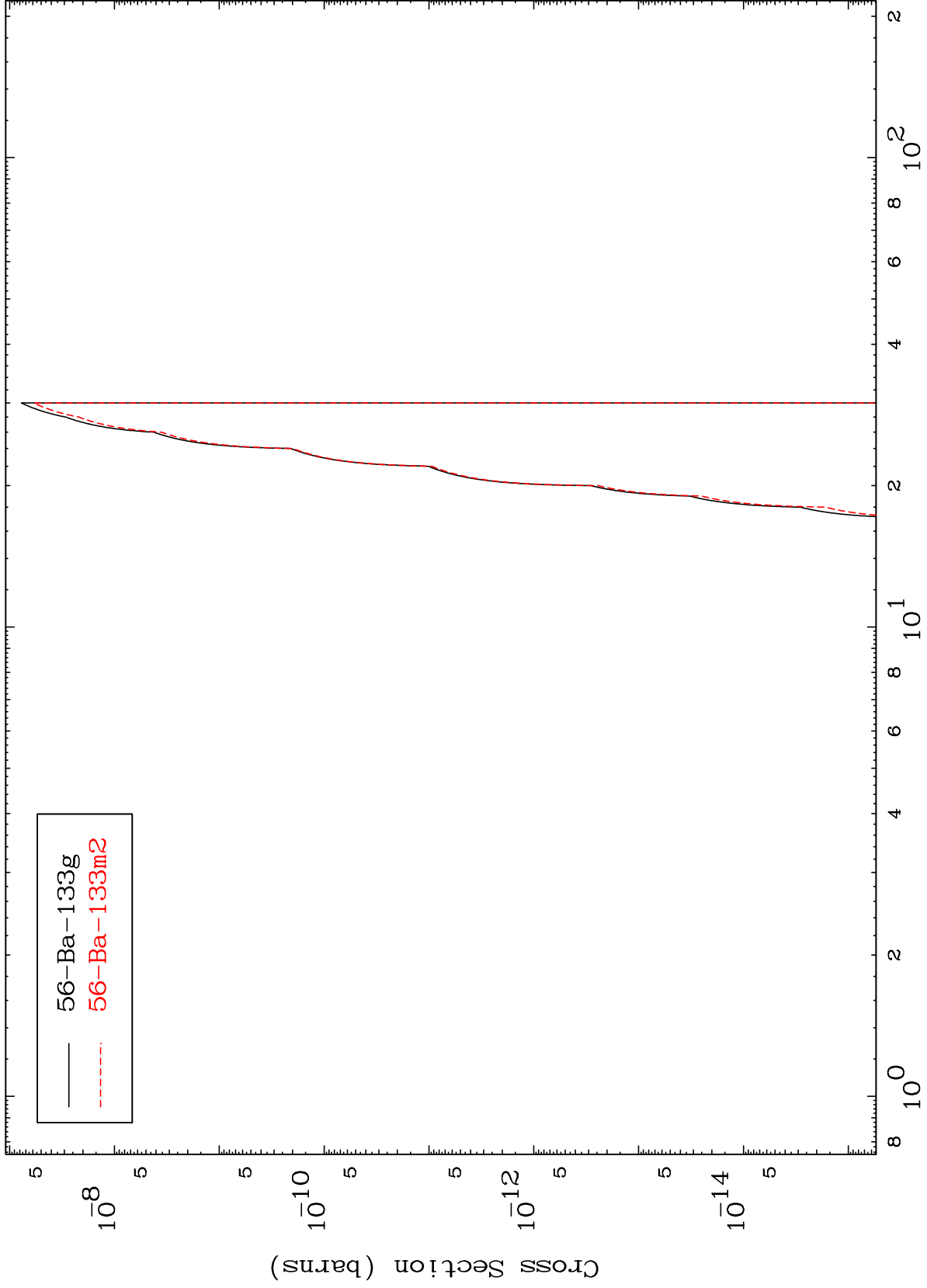


MAT 5828

(n,2α)

58-Ce-137

Radionuclide Production Cross Section



— 56-Ba-133g
- - - 56-Ba-133m2

18

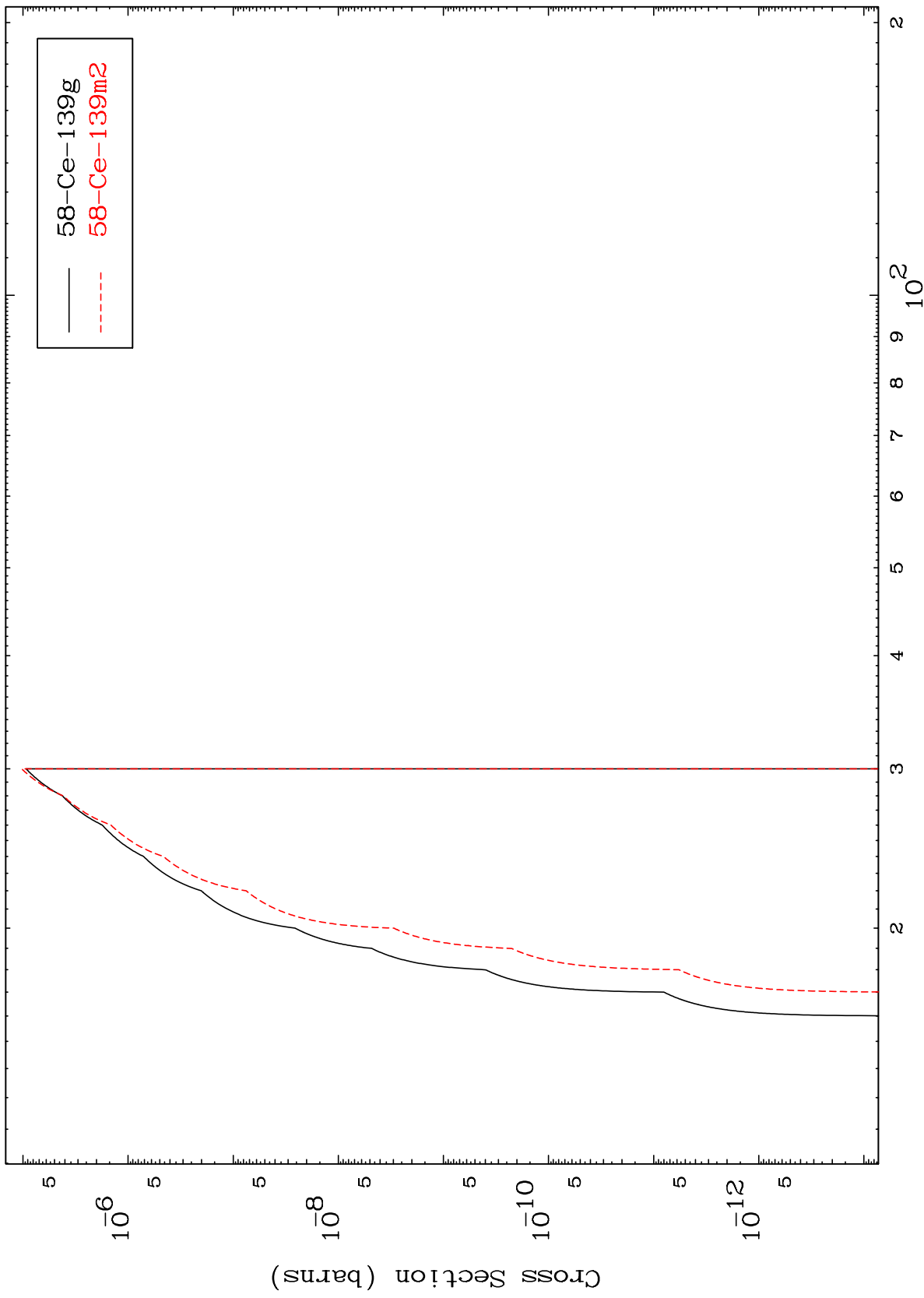
Incident Energy (MeV)

58-Ce-137

MAT 5828

58-Ce-137

(n,2p)
Radionuclide Production Cross Section



19

Incident Energy (MeV)

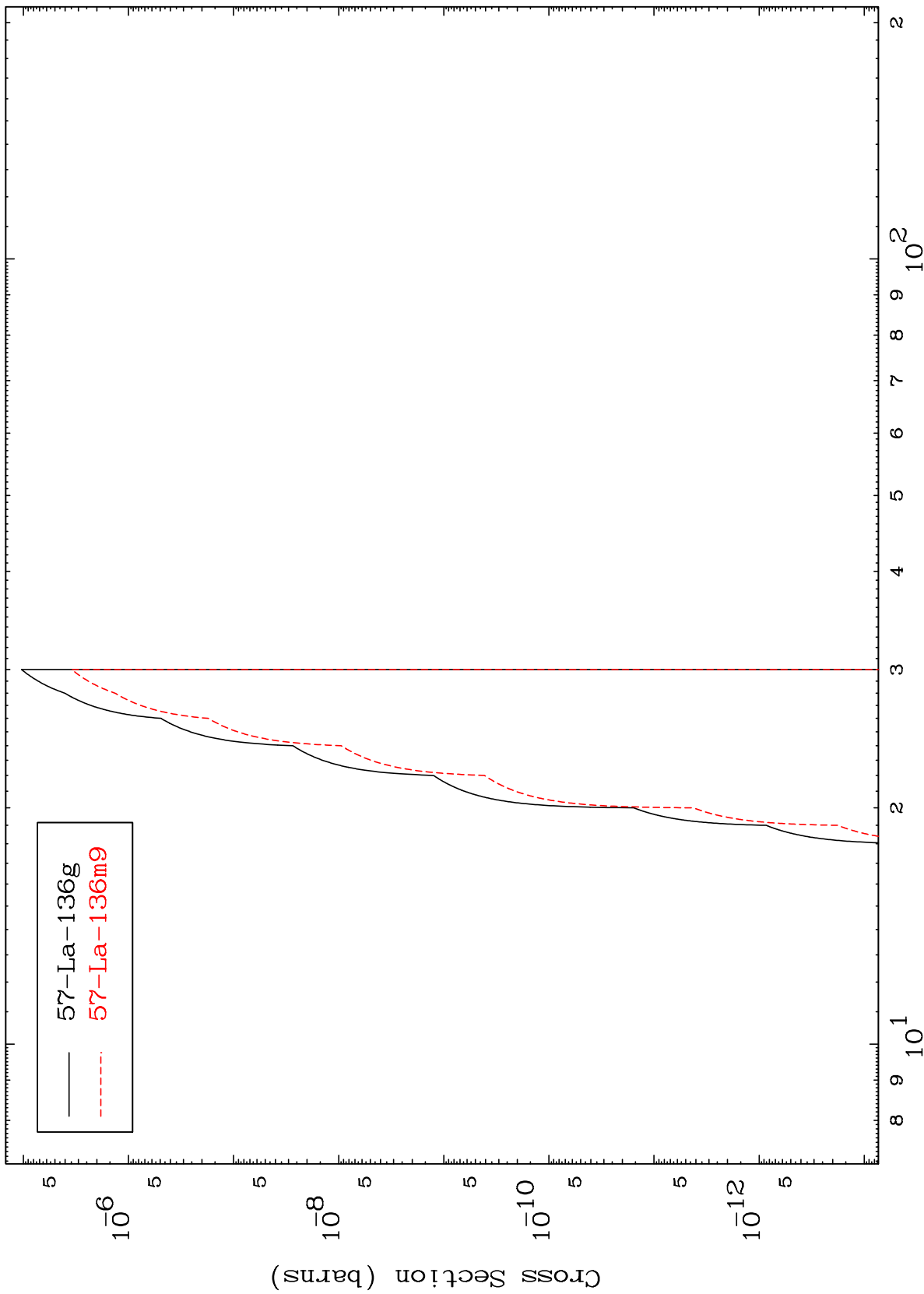
58-Ce-137

MAT 5828

(n,p) α

58-Ce-137

Radionuclide Production Cross Section



57-La-136g
57-La-136m9

20

Incident Energy (MeV)

58-Ce-137