

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

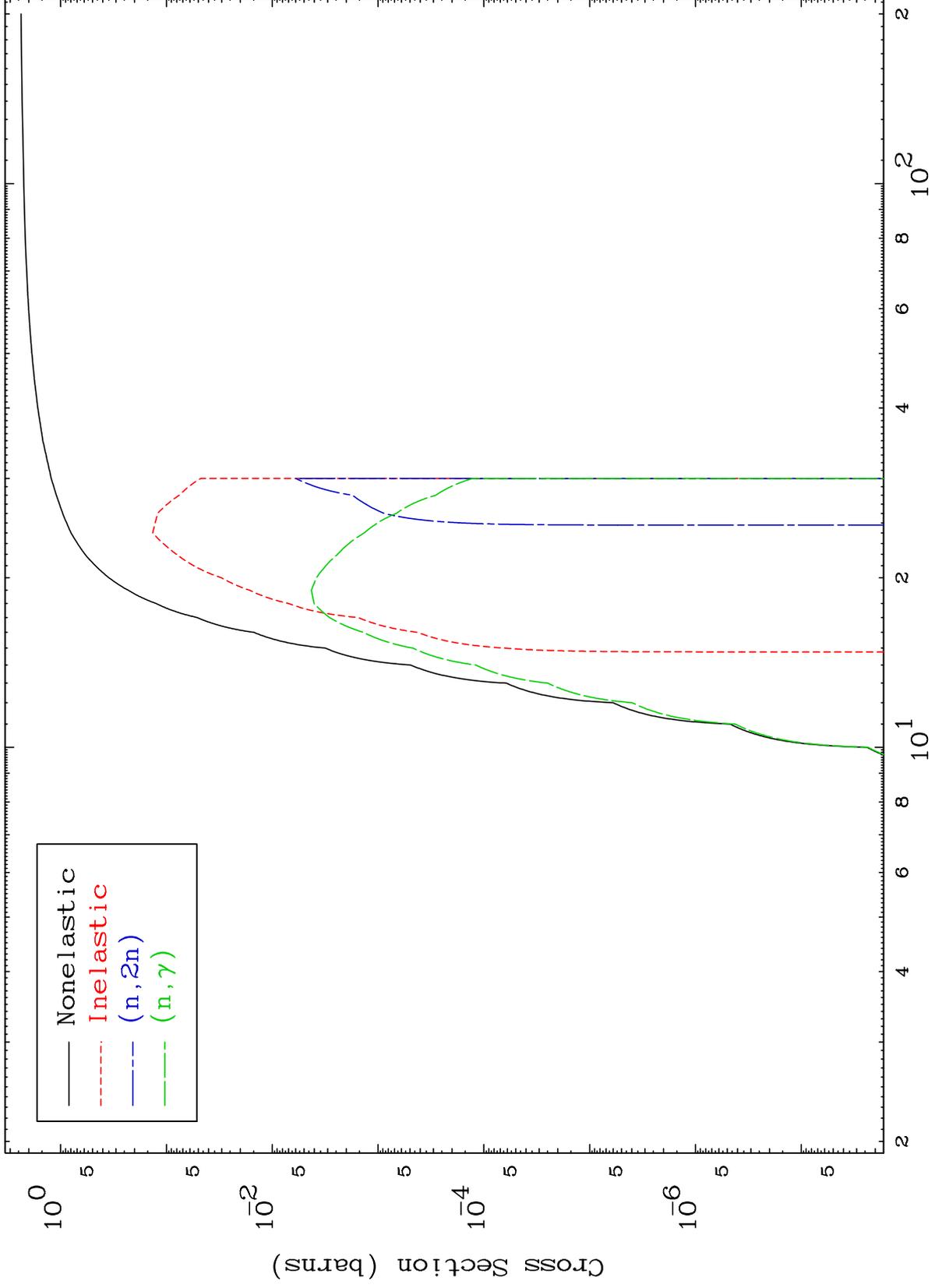
Press Mouse Button to Start

MAT 6395

0 Kelvin Cross Sections

α Major

64-Gd-142

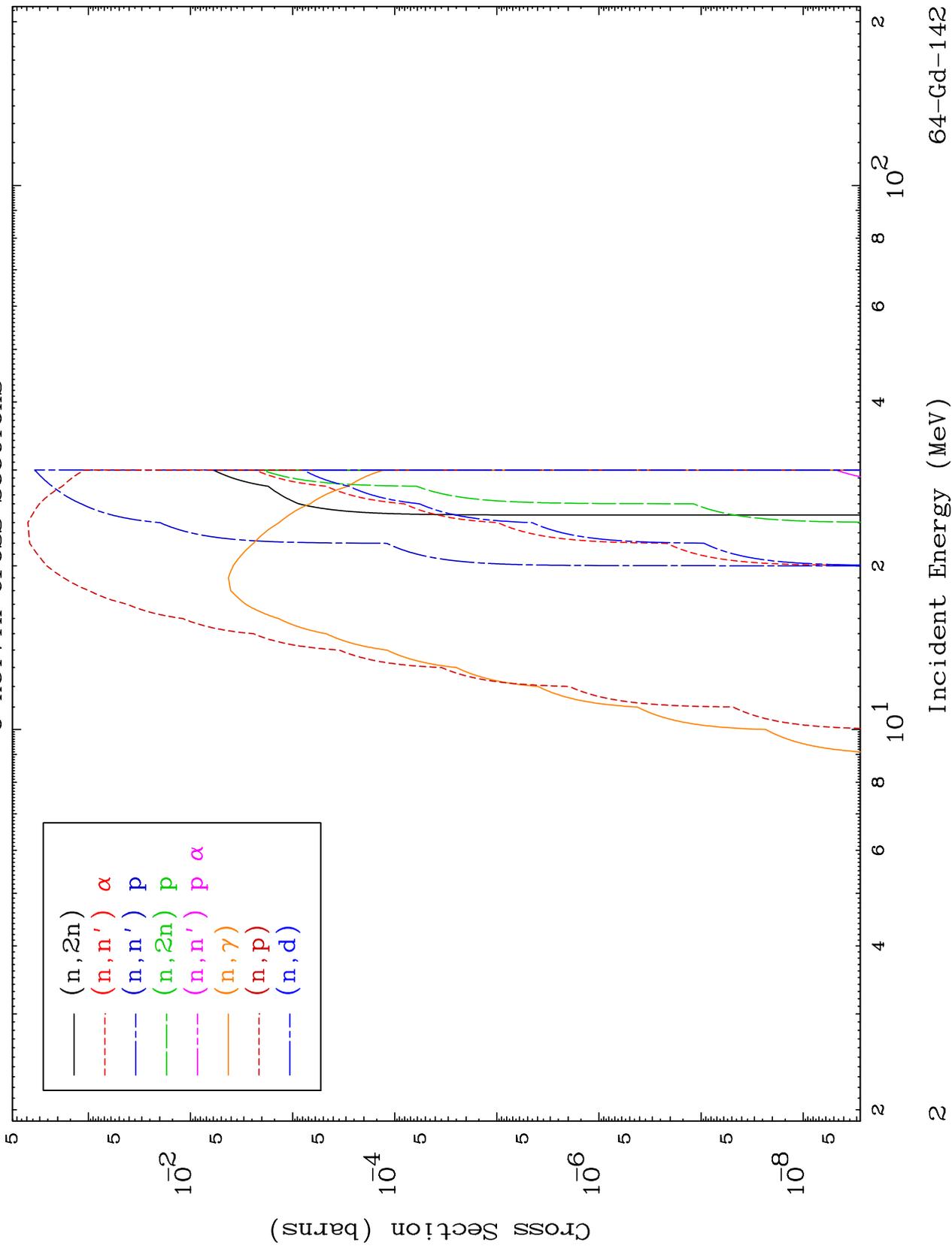


Legend:
— Nonelastic
- - - Inelastic
- . - (n, 2n)
- - - (n, γ)

MAT 6395

α Neutron Absorption
0 Kelvin Cross Sections

64-Gd-142



64-Gd-142

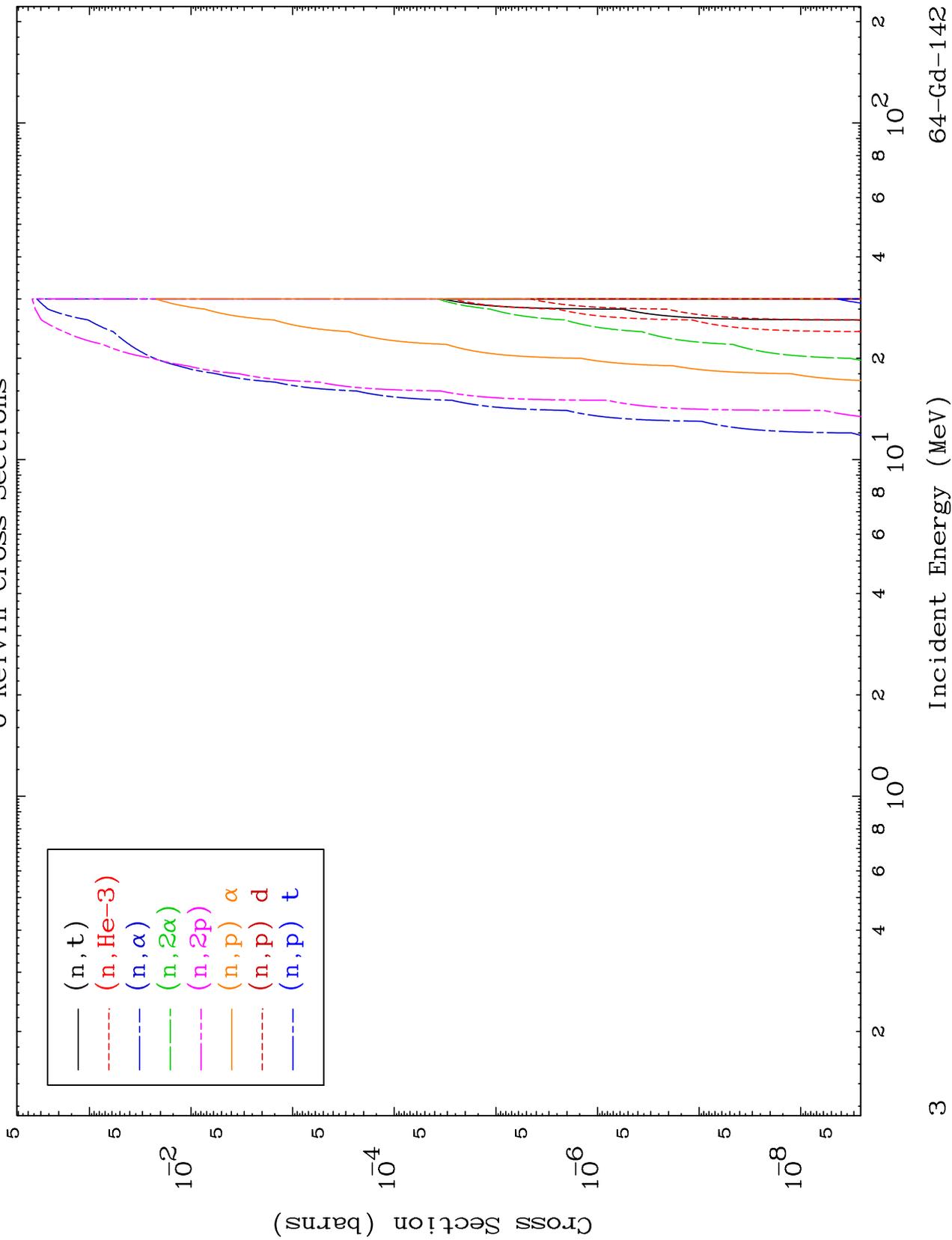
Incident Energy (MeV)

2

MAT 6395

α Neutron Absorption
0 Kelvin Cross Sections

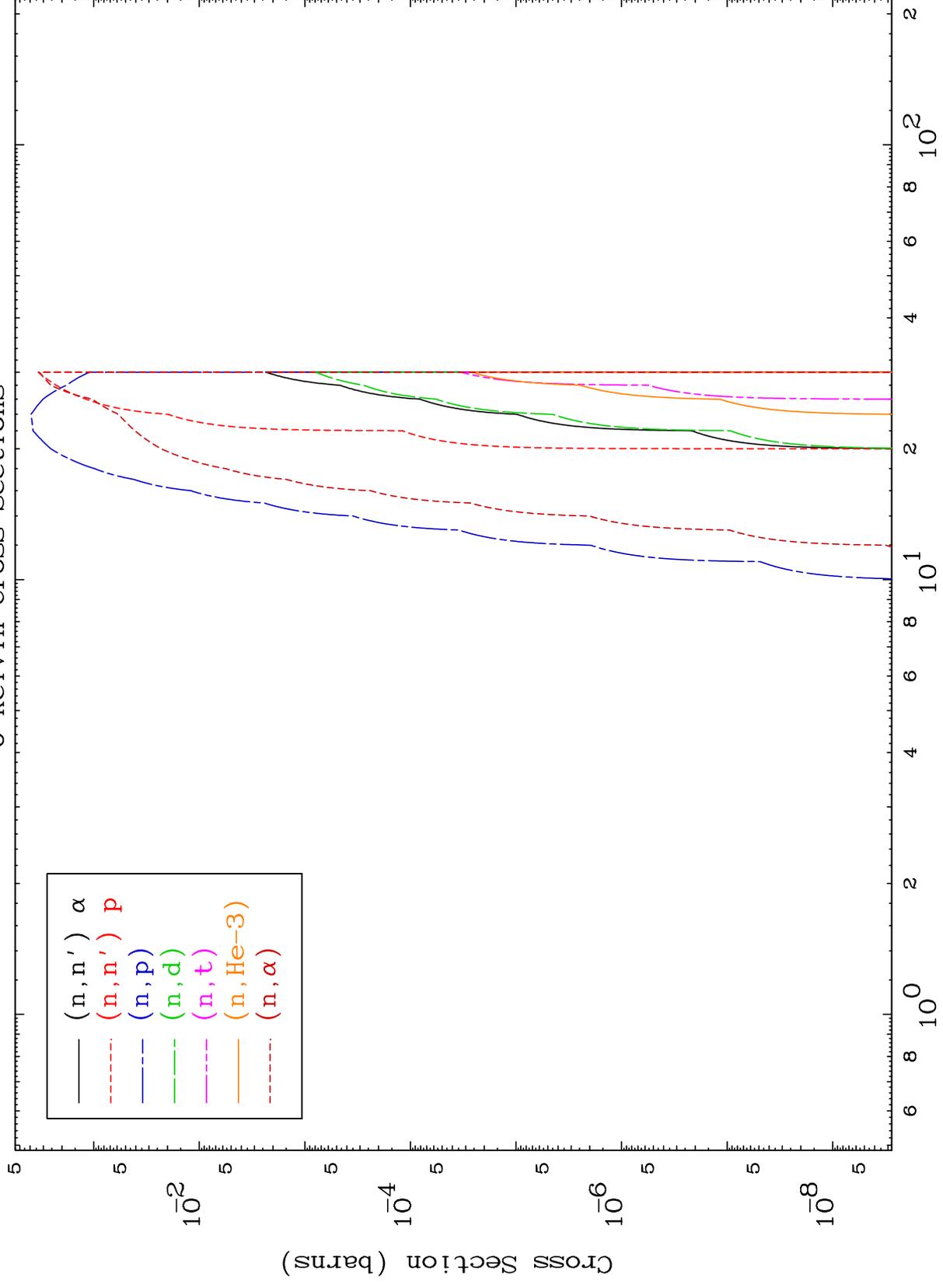
64-Gd-142

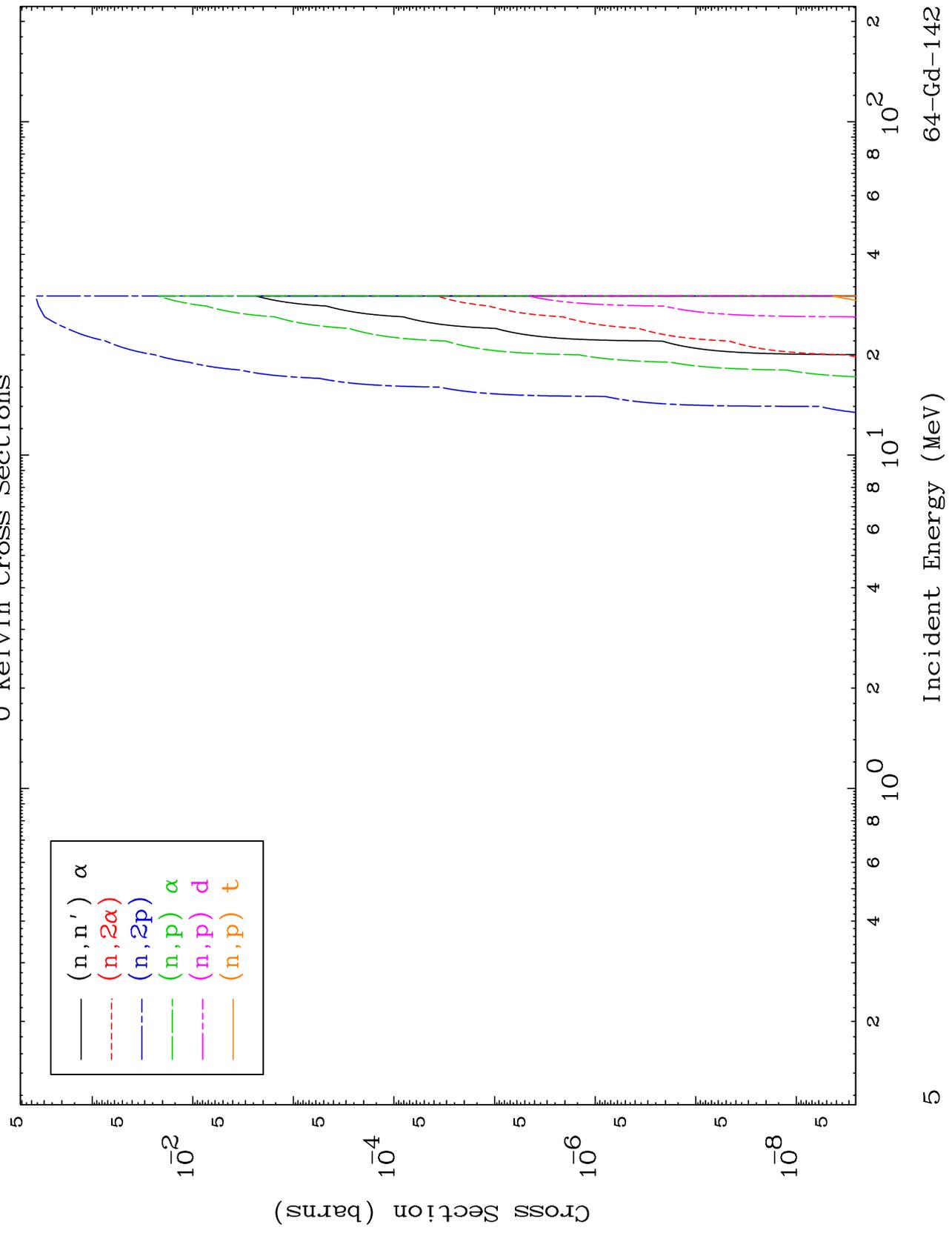


MAT 6395

α Charged Particle
0 Kelvin Cross Sections

64-Gd-142

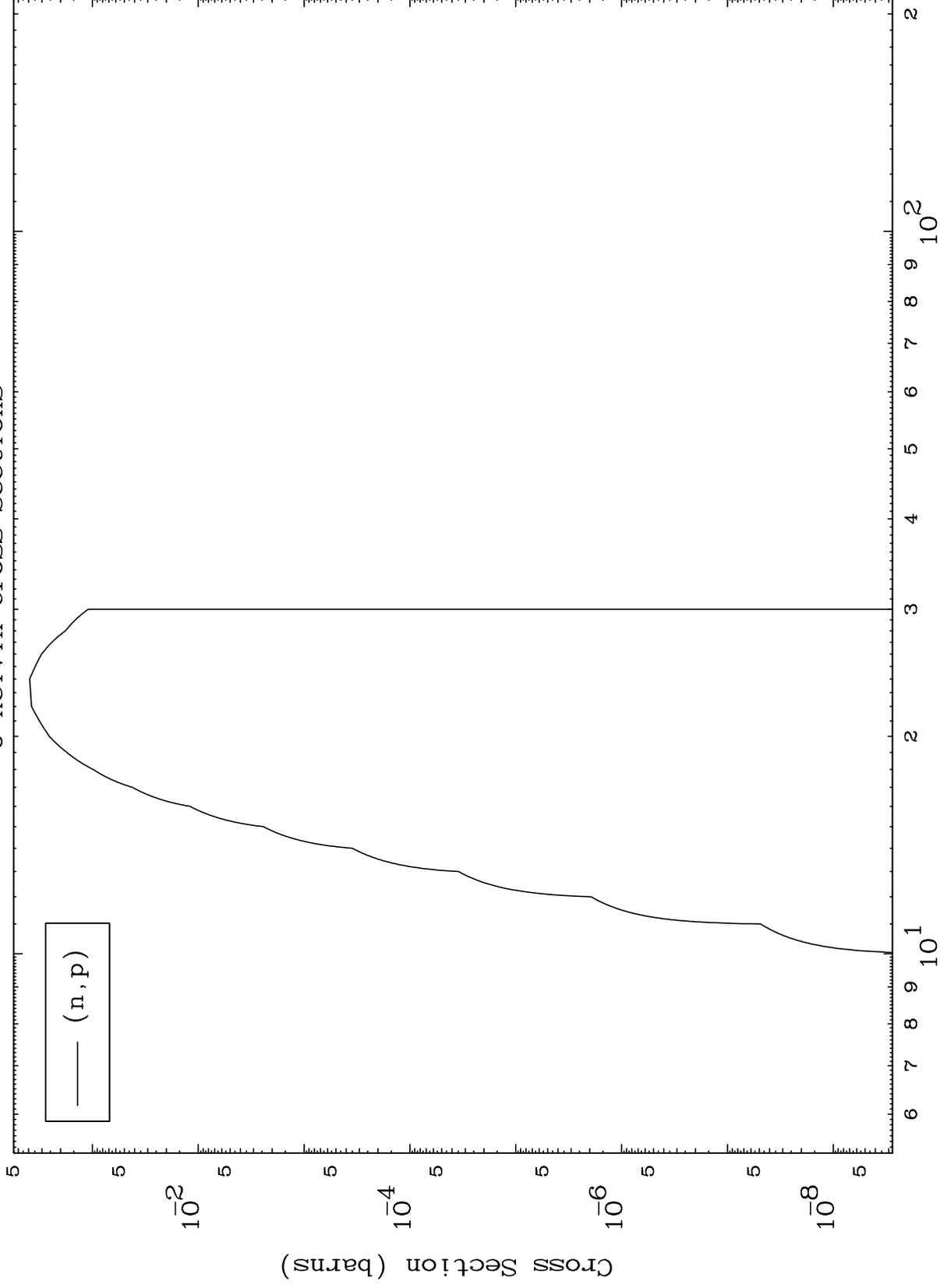




MAT 6395

(α, p) Levels
0 Kelvin Cross Sections

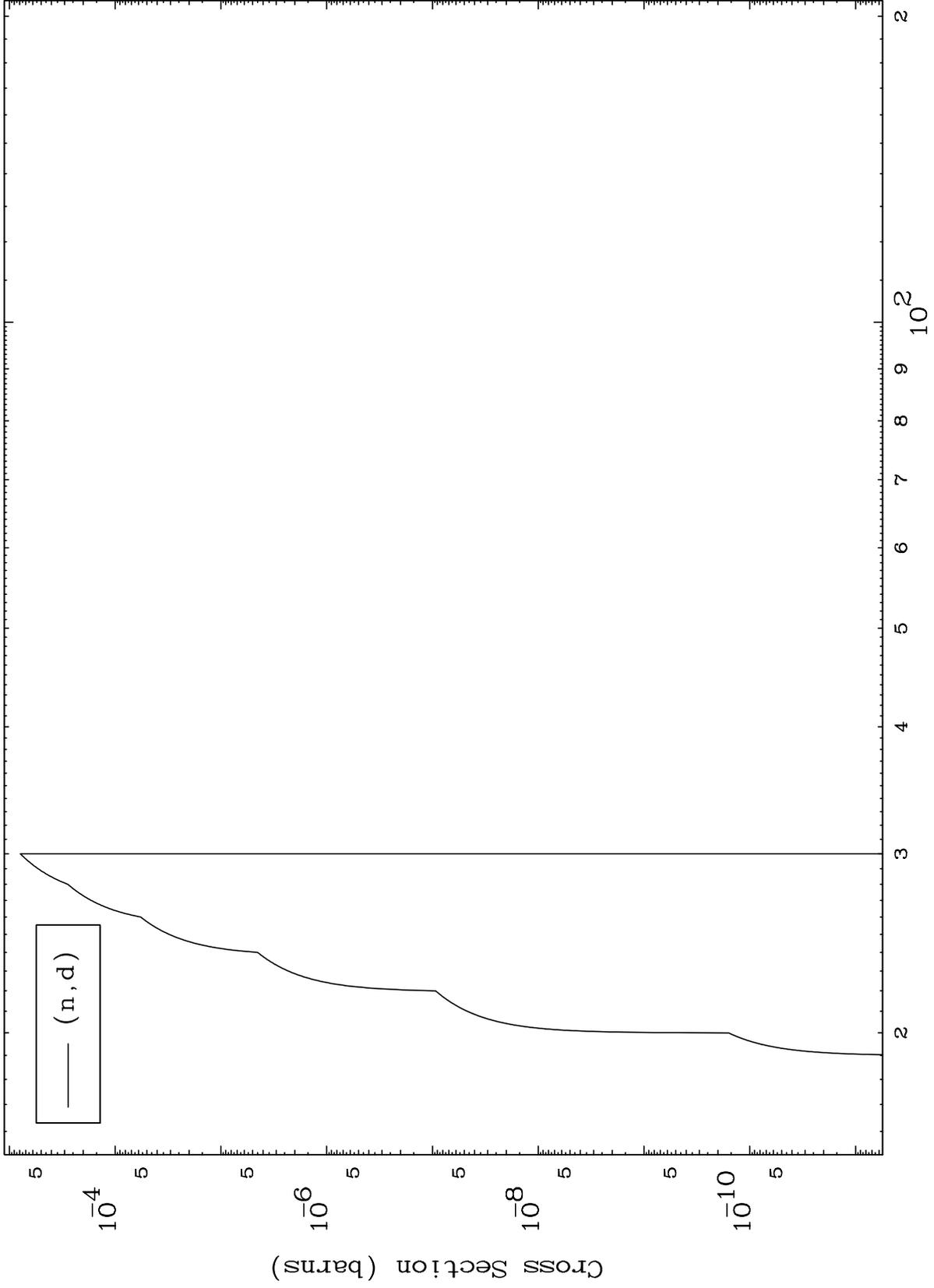
64-Gd-142



6

Incident Energy (MeV)

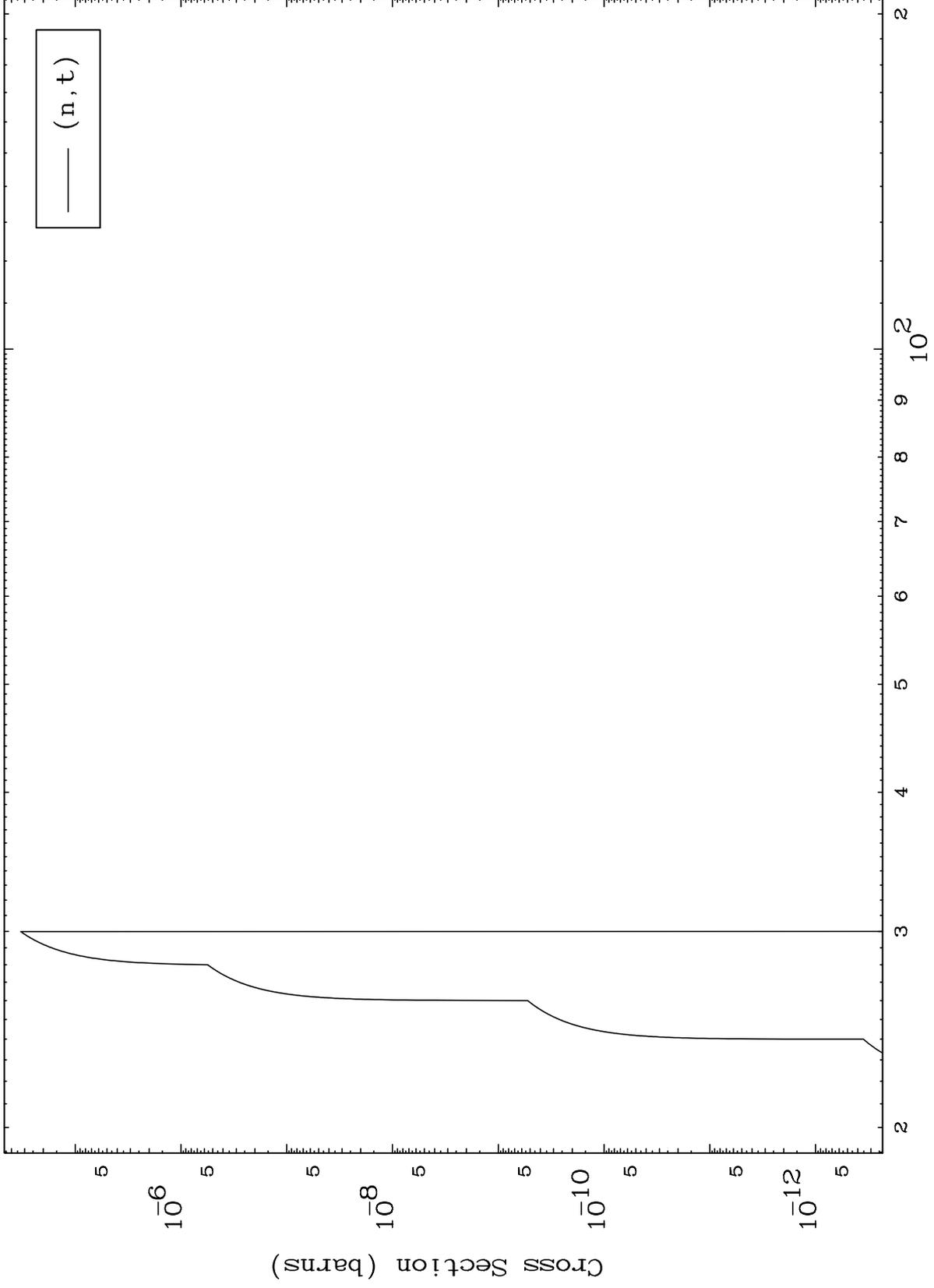
64-Gd-142



MAT 6395

(α, t) Levels
0 Kelvin Cross Sections

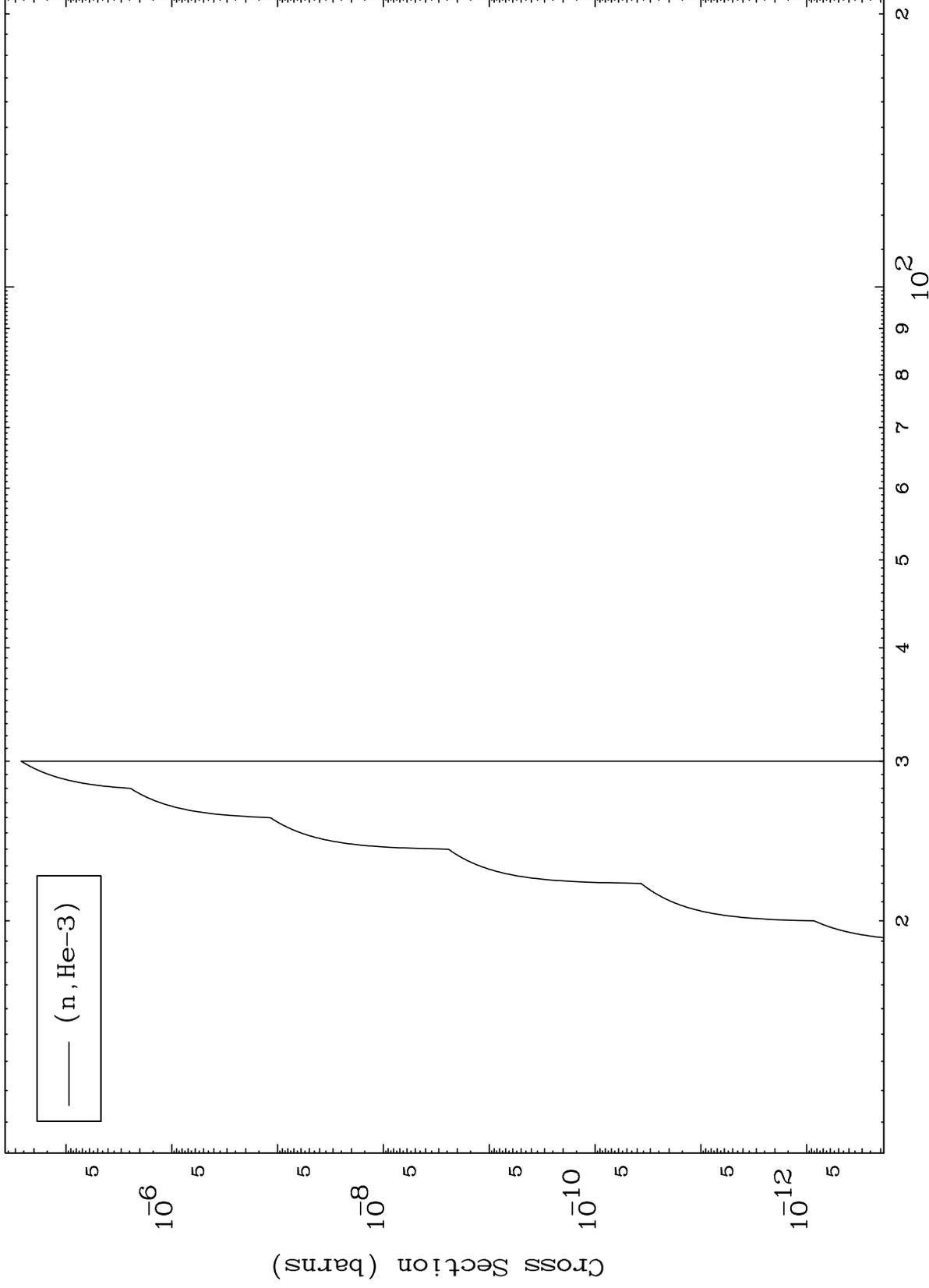
64-Gd-142



8

Incident Energy (MeV)

64-Gd-142

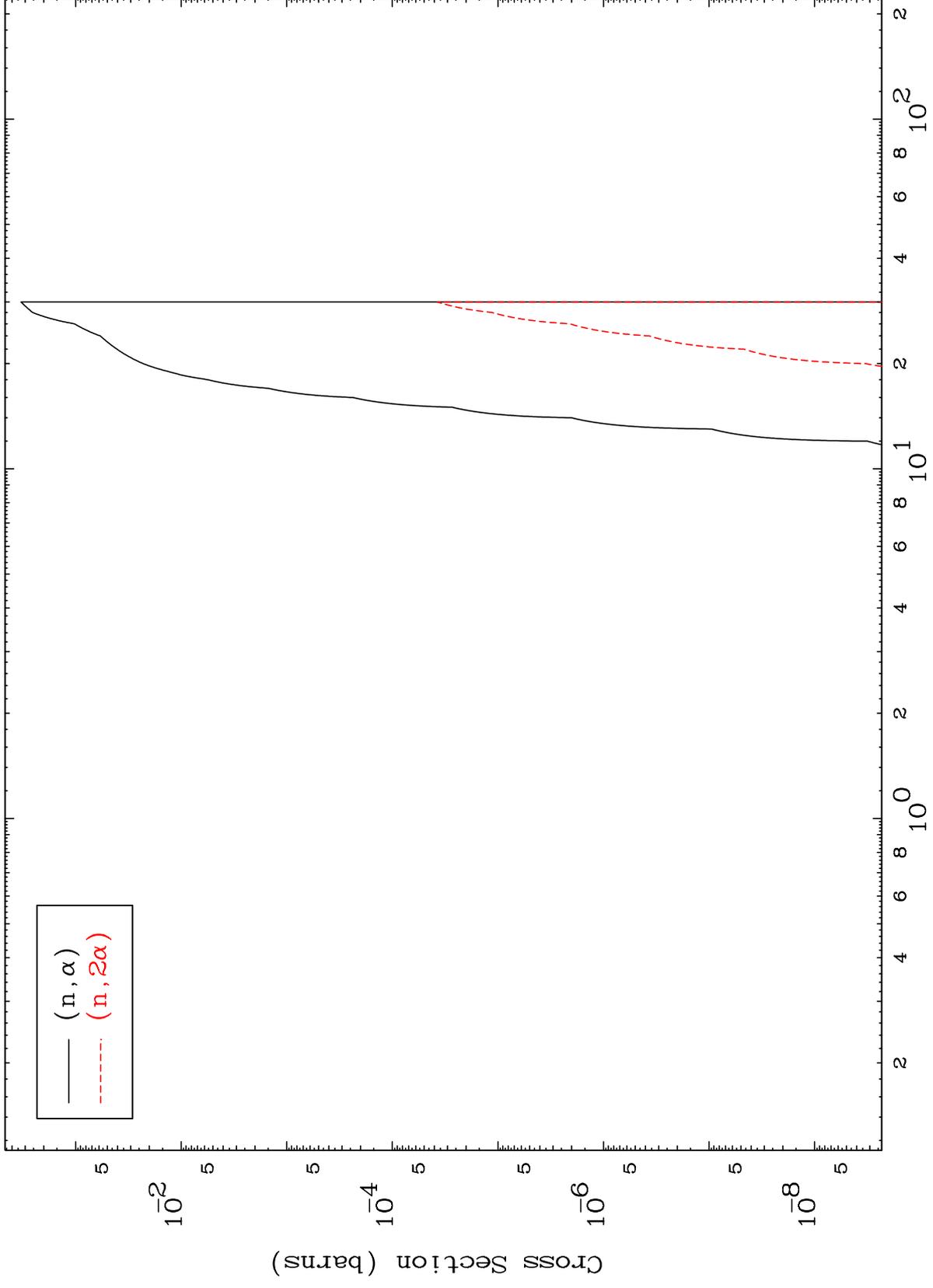


MAT 6395

(α, α) Levels

64-Gd-142

0 Kelvin Cross Sections



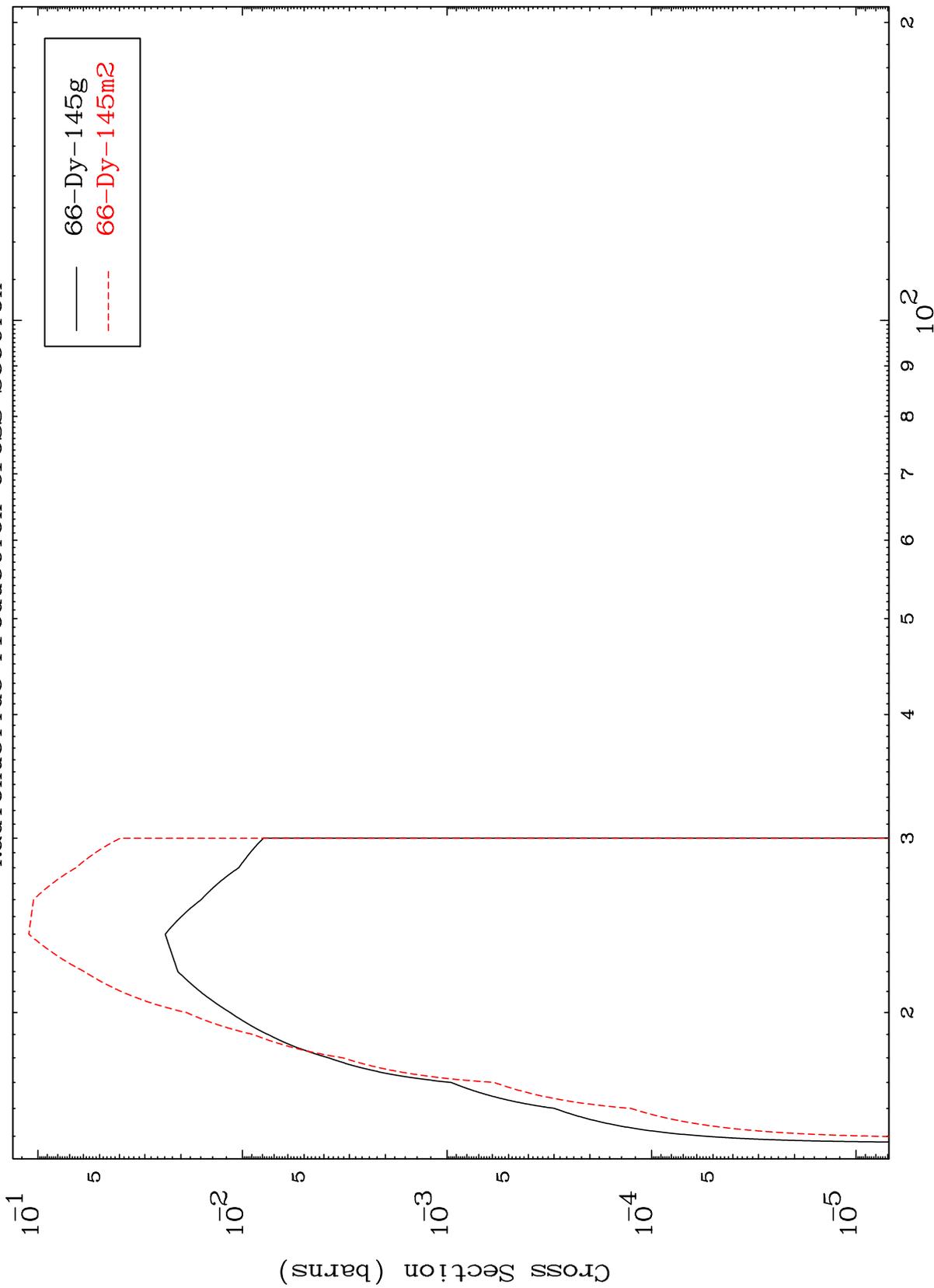
— (n, α)
- - - ($n, 2\alpha$)

10

Incident Energy (MeV)

64-Gd-142

Inelastic
Radionuclide Production Cross Section

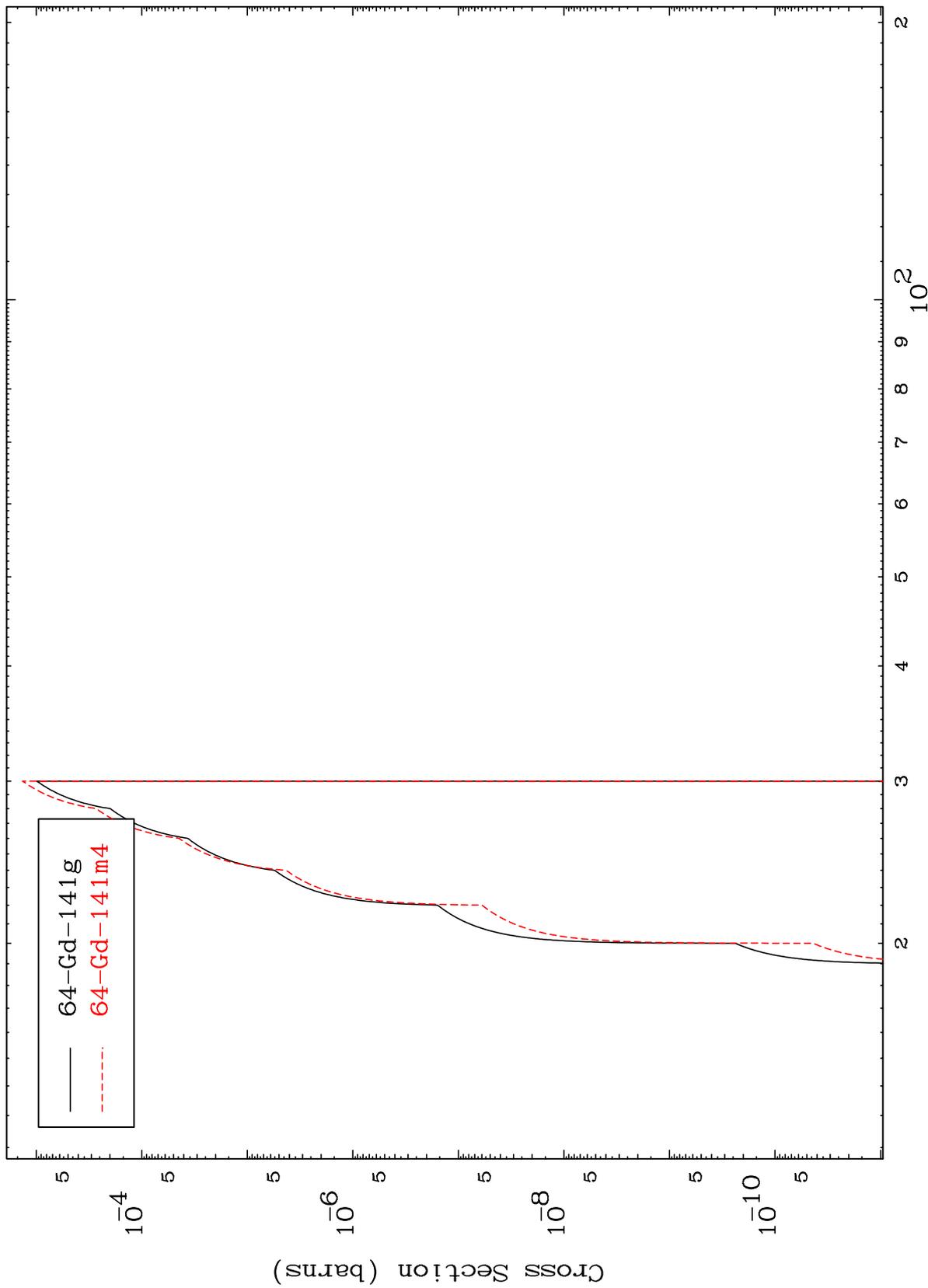


MAT 6395

64-Gd-142

(n,n') α

Radionuclide Production Cross Section



12

Incident Energy (MeV)

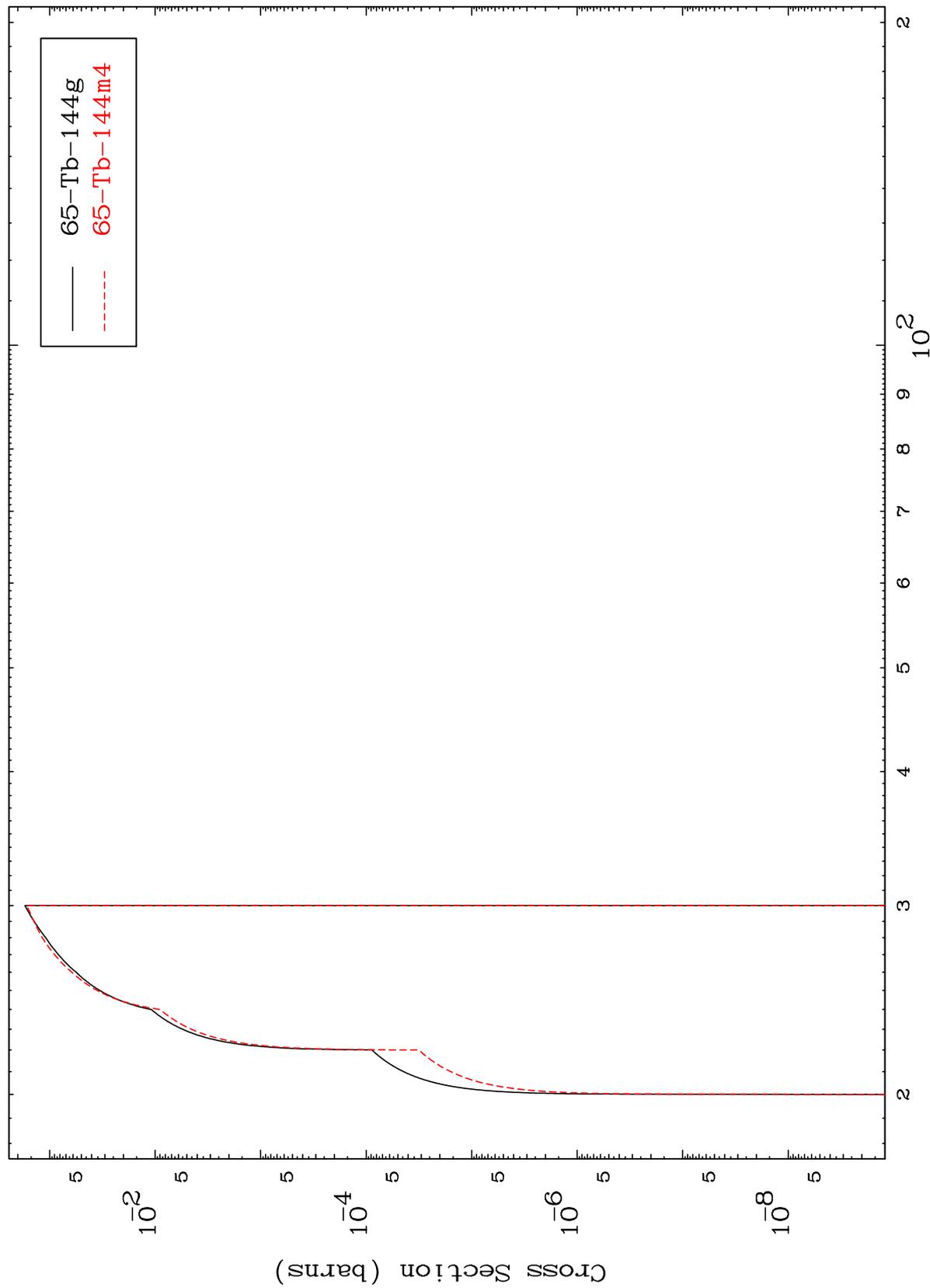
64-Gd-142

MAT 6395

(n,n') p

64-Gd-142

Radionuclide Production Cross Section



13

Incident Energy (MeV)

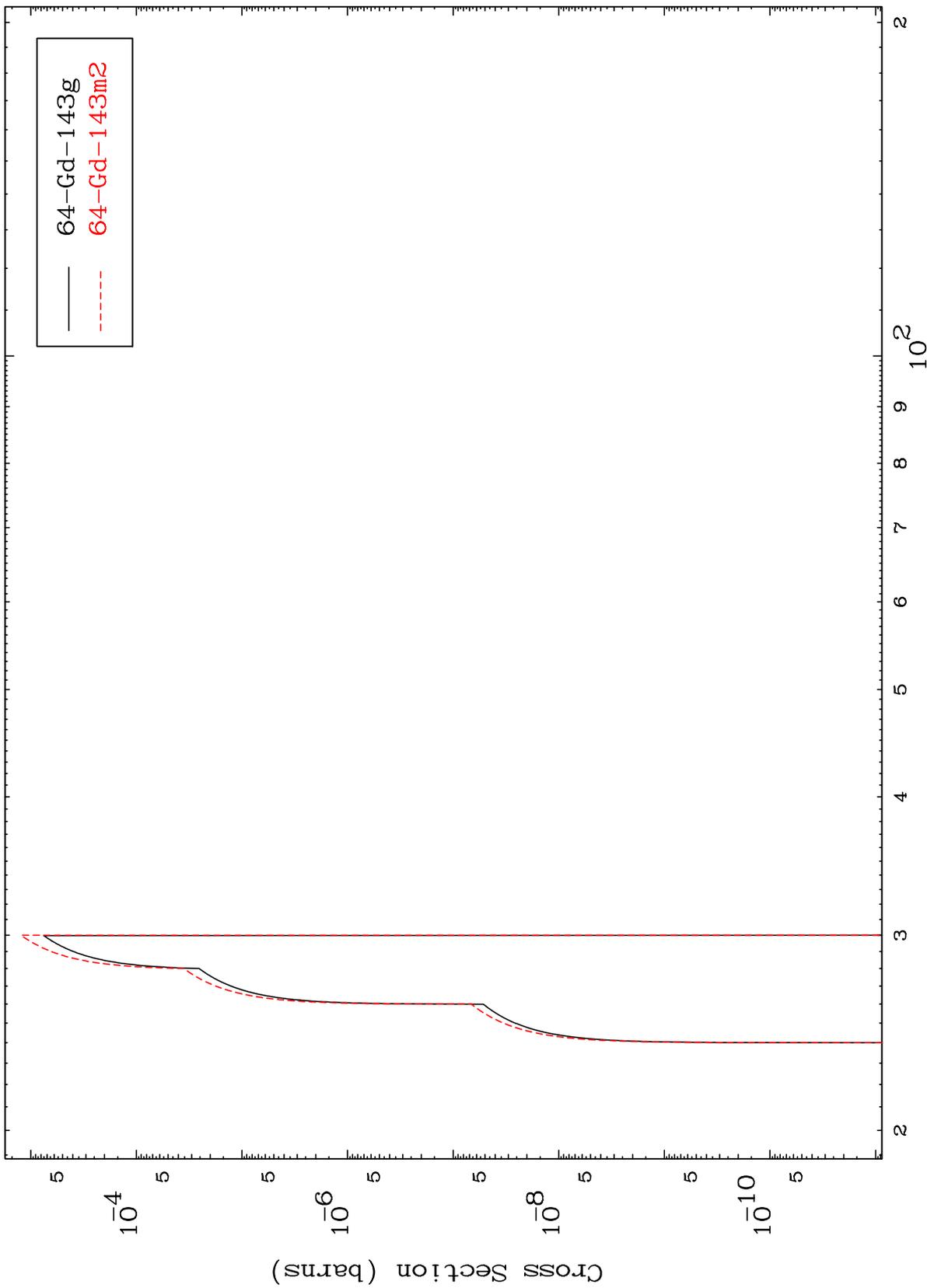
64-Gd-142

MAT 6395

(n,2n) p

64-Gd-142

Radionuclide Production Cross Section



14

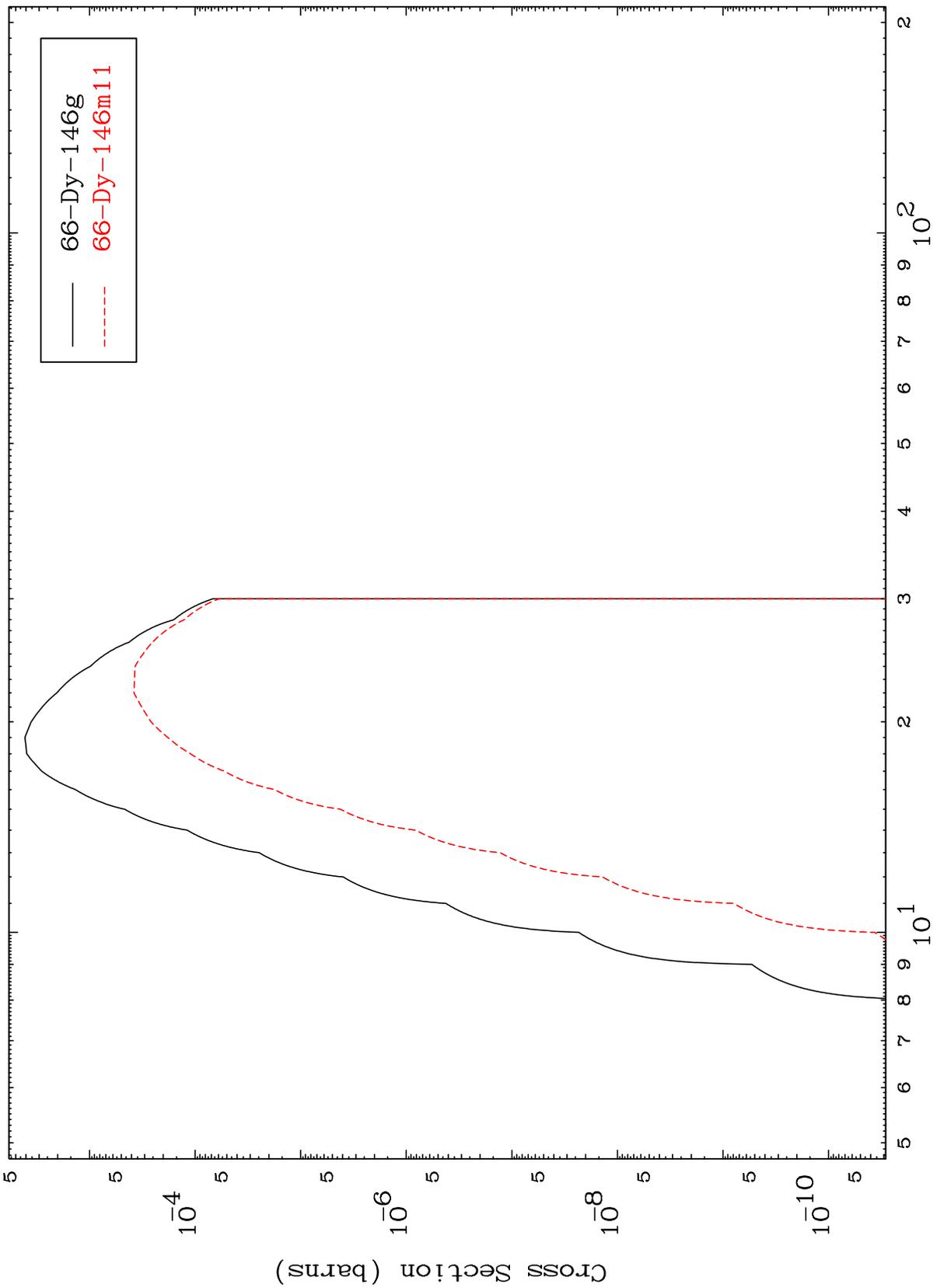
Incident Energy (MeV)

64-Gd-142

MAT 6395

64-Gd-142

(n, γ)
Radionuclide Production Cross Section



15

Incident Energy (MeV)

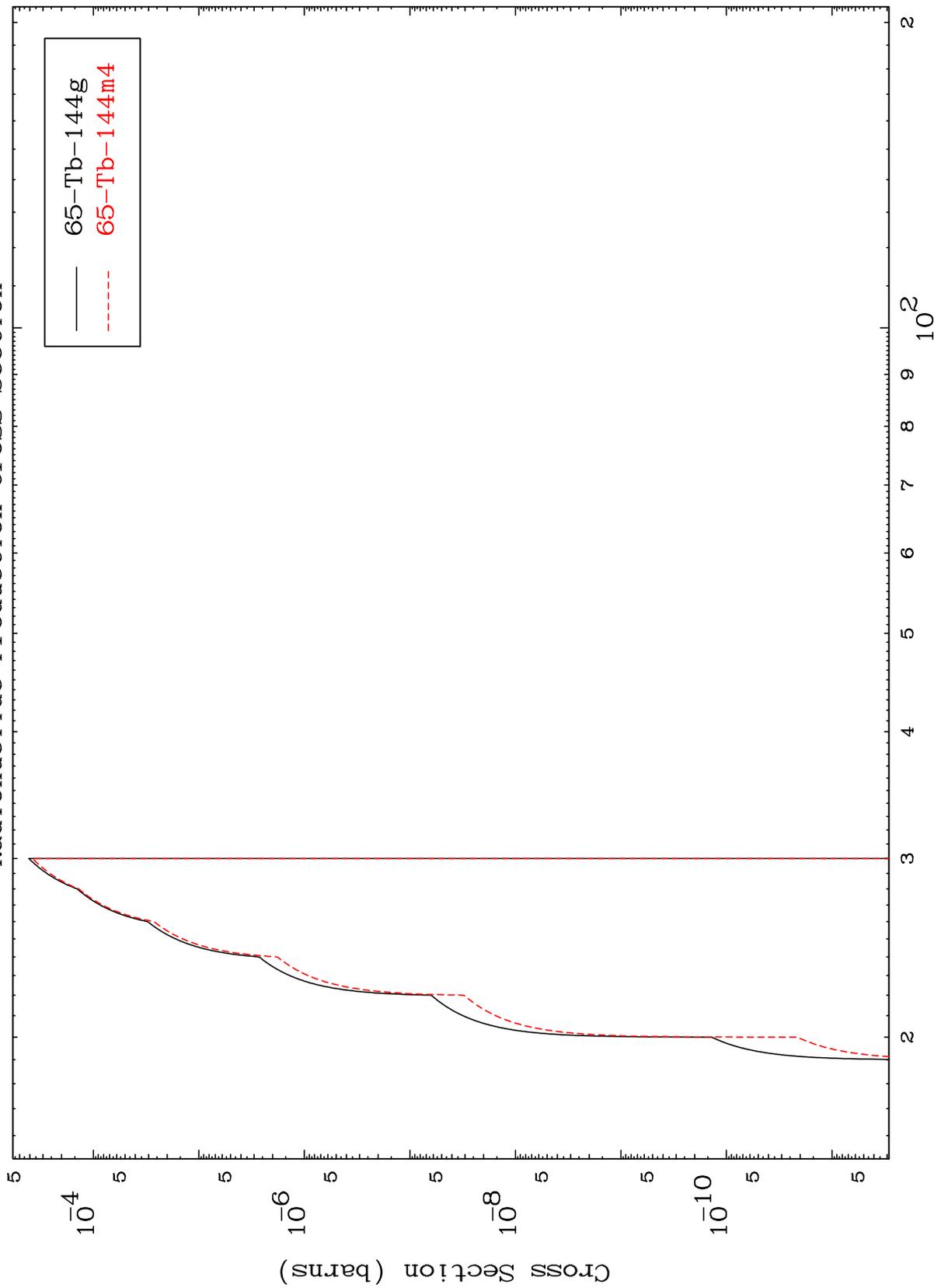
64-Gd-142

MAT 6395

(n,d)

64-Gd-142

Radionuclide Production Cross Section



16

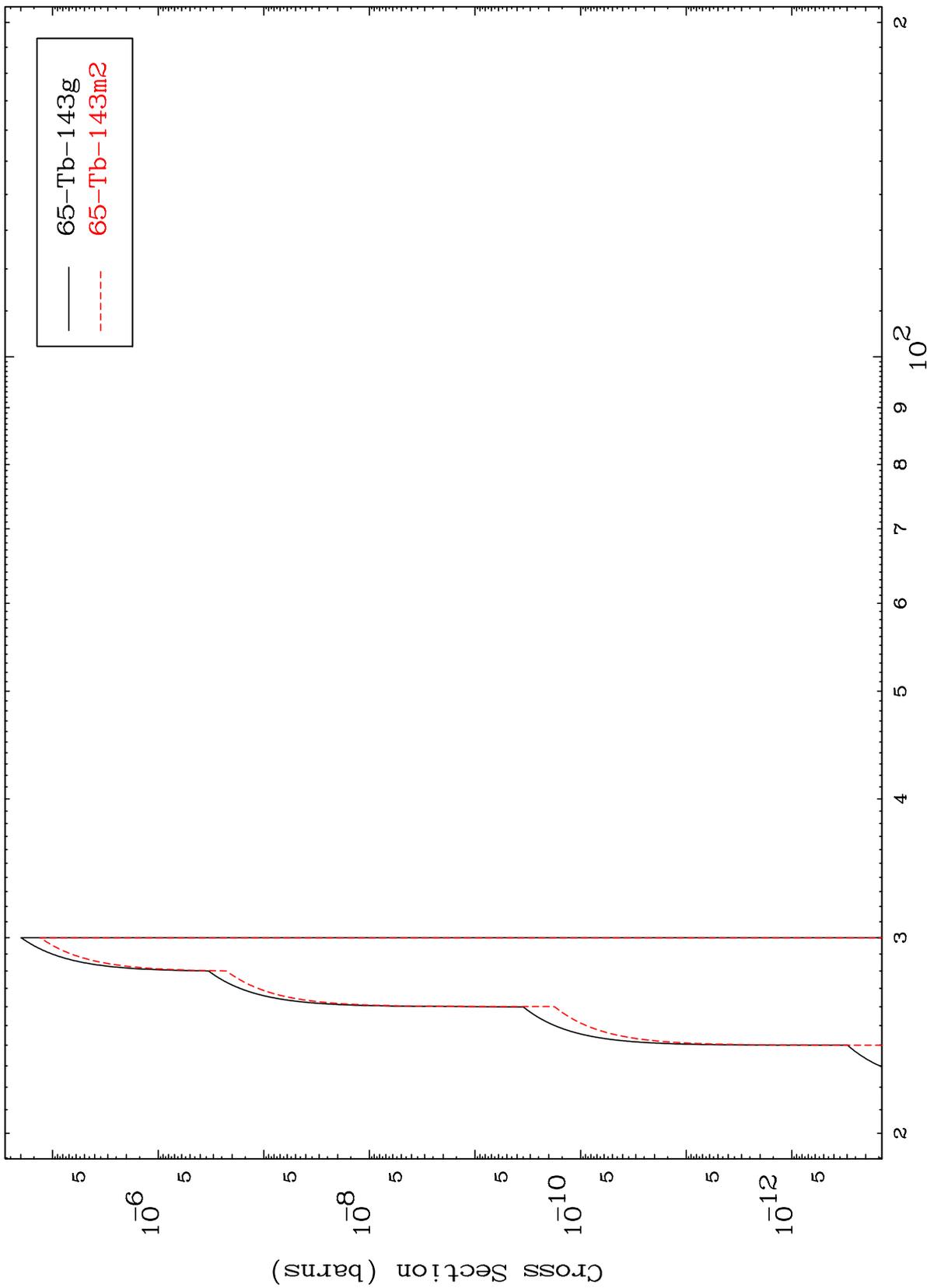
Incident Energy (MeV)

64-Gd-142

MAT 6395

64-Gd-142

(n,t)
Radionuclide Production Cross Section



17

Incident Energy (MeV)

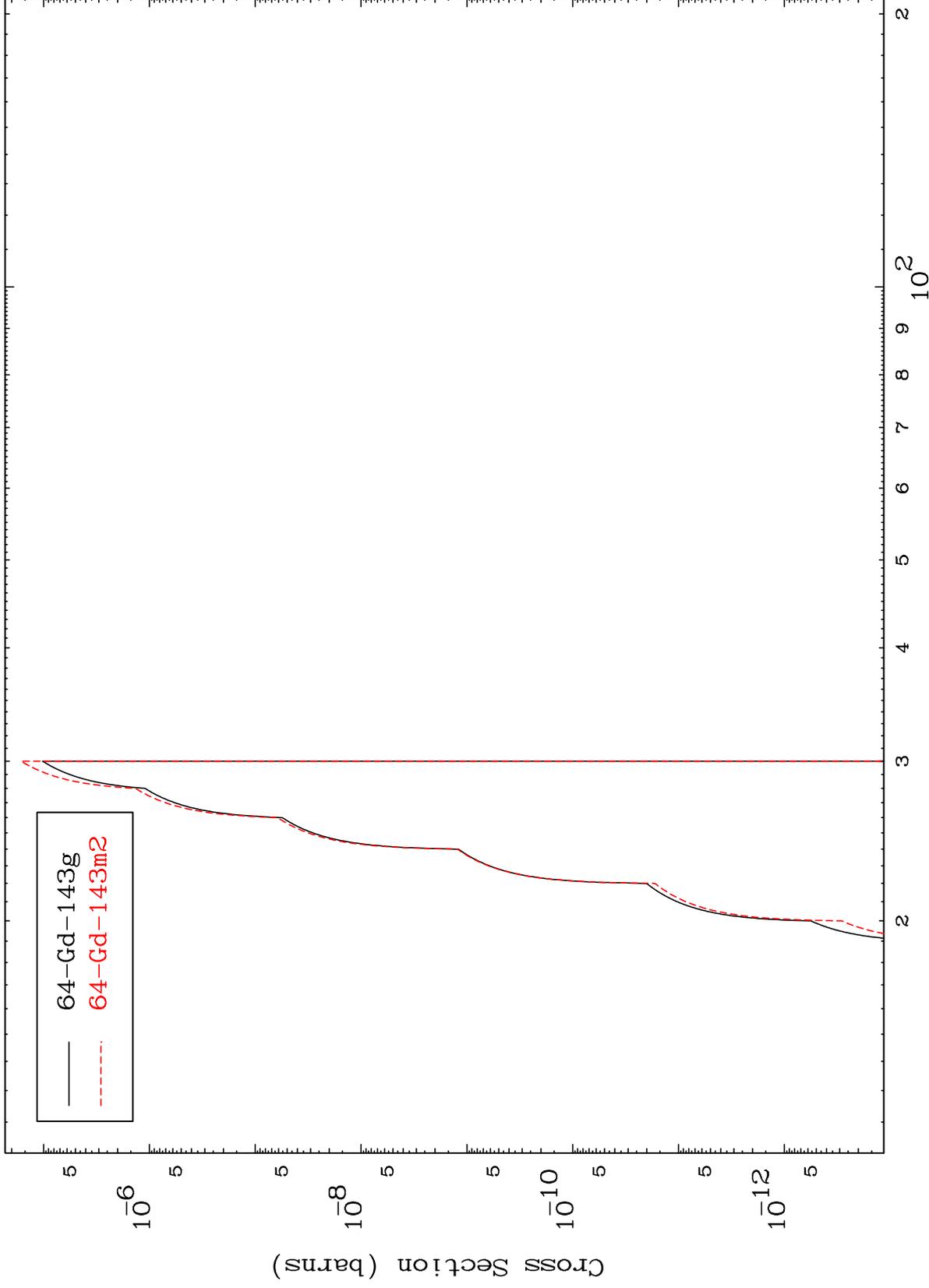
64-Gd-142

MAT 6395

(n,He-3)

64-Gd-142

Radionuclide Production Cross Section

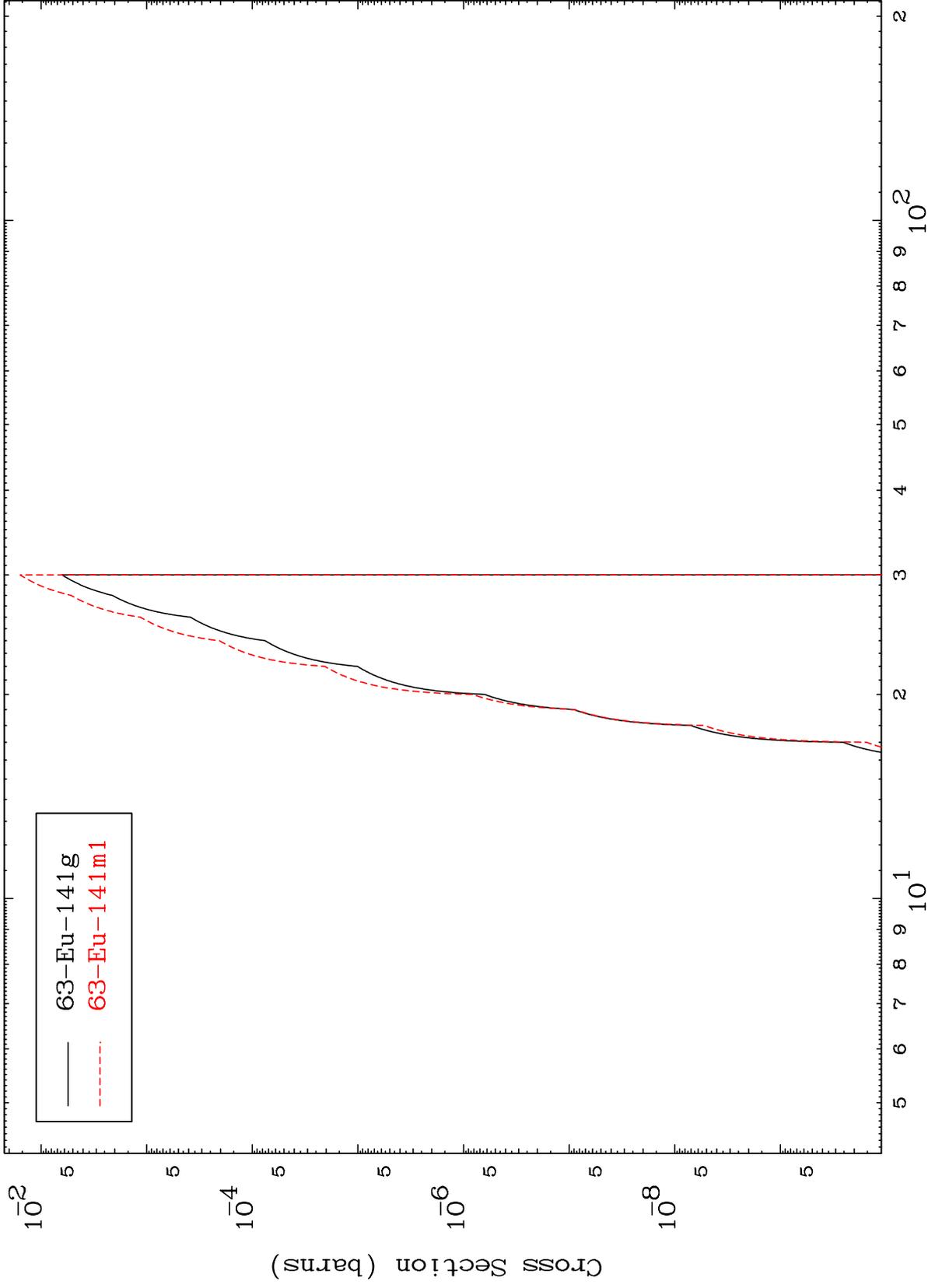


MAT 6395

(n,p) α

64-Gd-142

Radionuclide Production Cross Section



63-Eu-141g
63-Eu-141m1

19

Incident Energy (MeV)

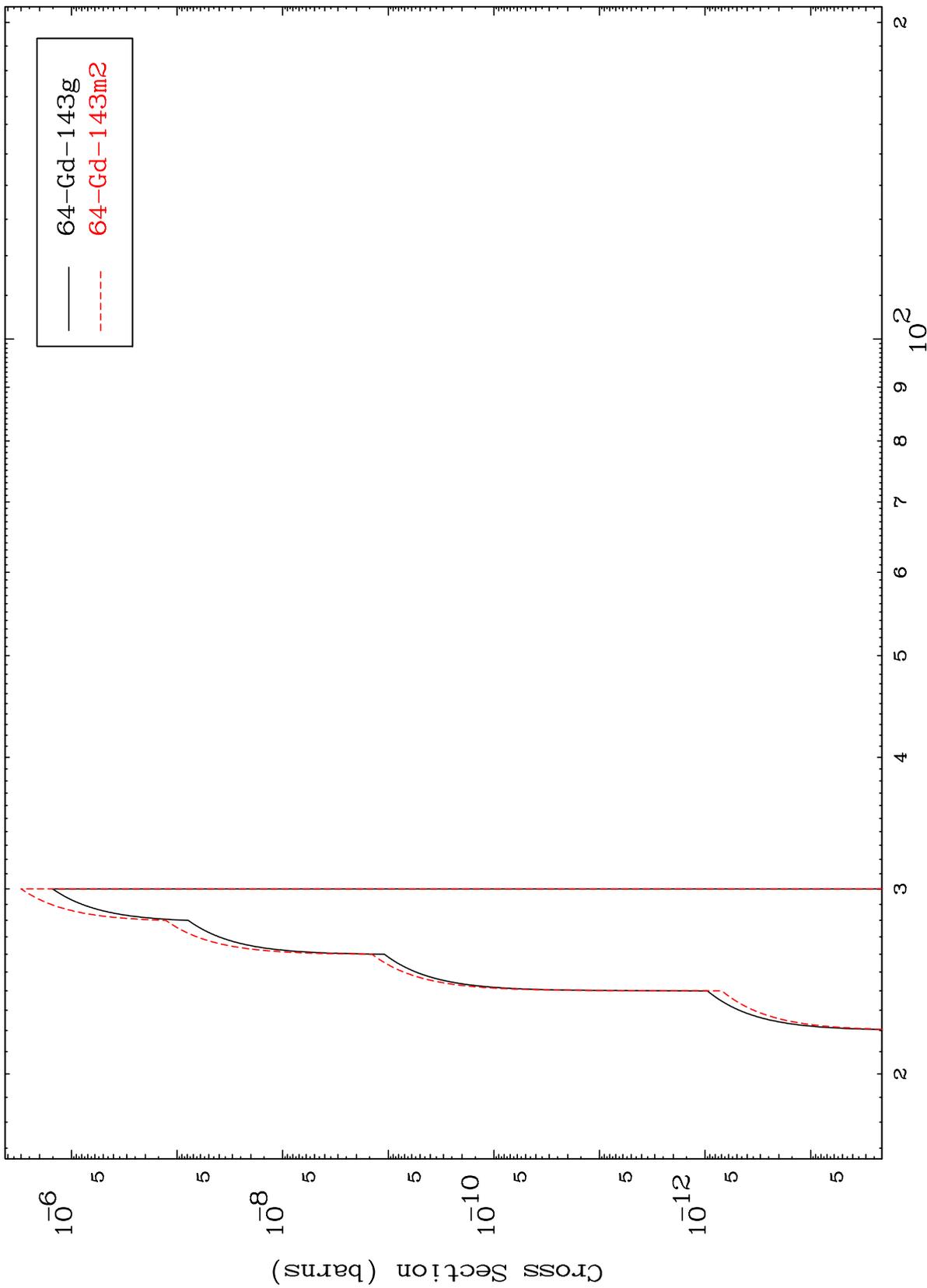
64-Gd-142

MAT 6395

(n,p) d

64-Gd-142

Radionuclide Production Cross Section



20

Incident Energy (MeV)

64-Gd-142