

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

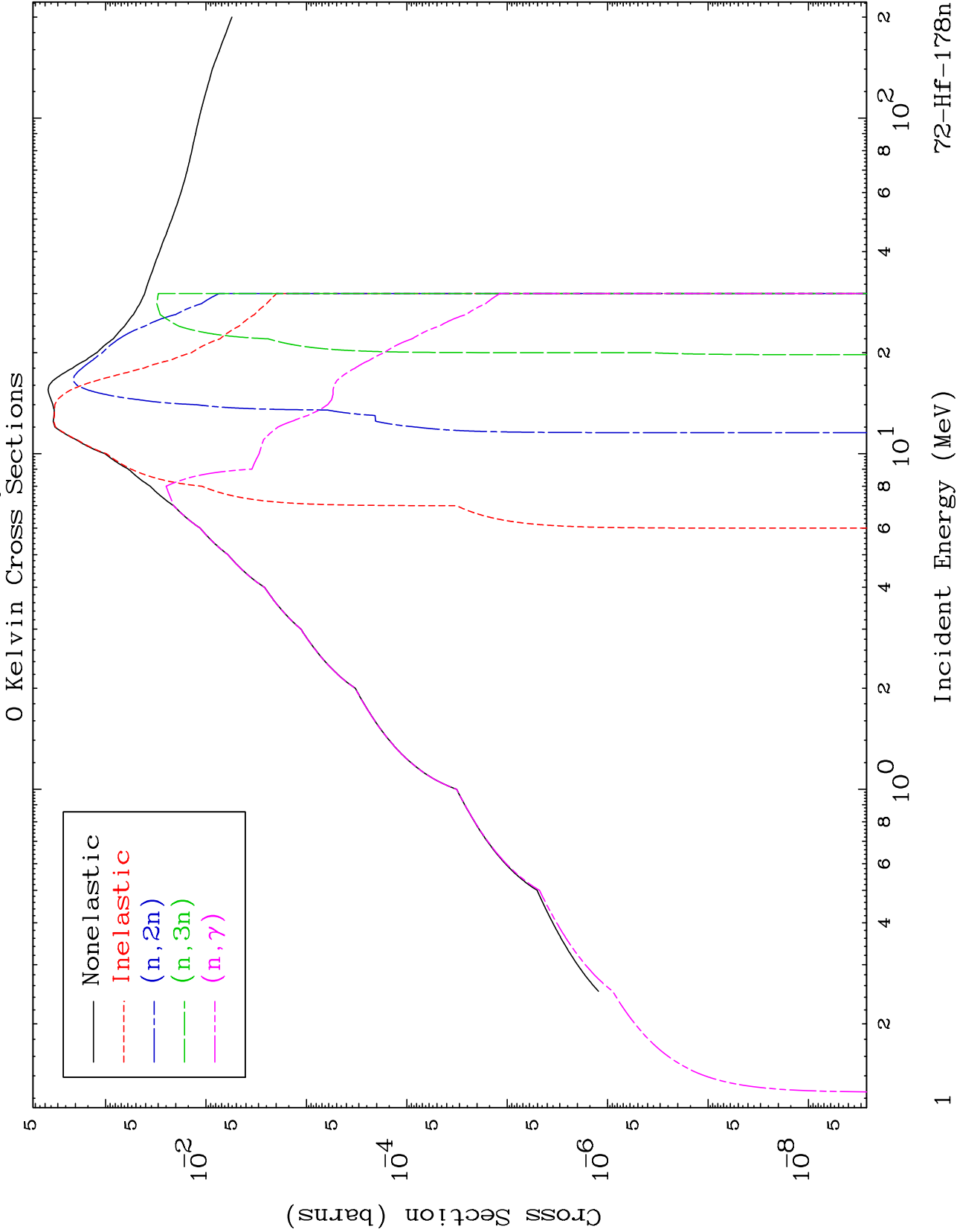
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7239

Photon Major

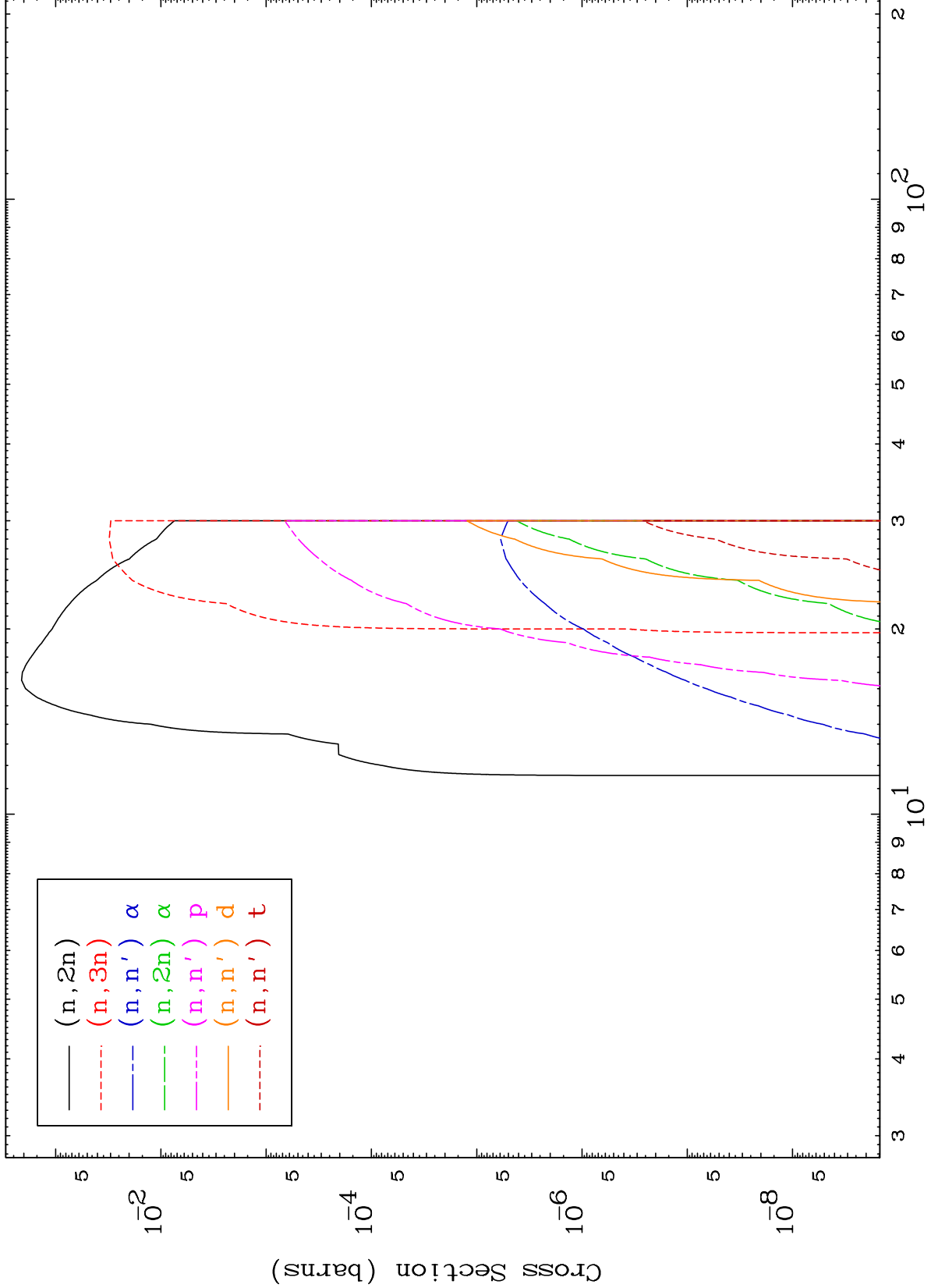
⁷²Hf-178n



MAT 7239

Photon Neutron Absorption
0 Kelvin Cross Sections

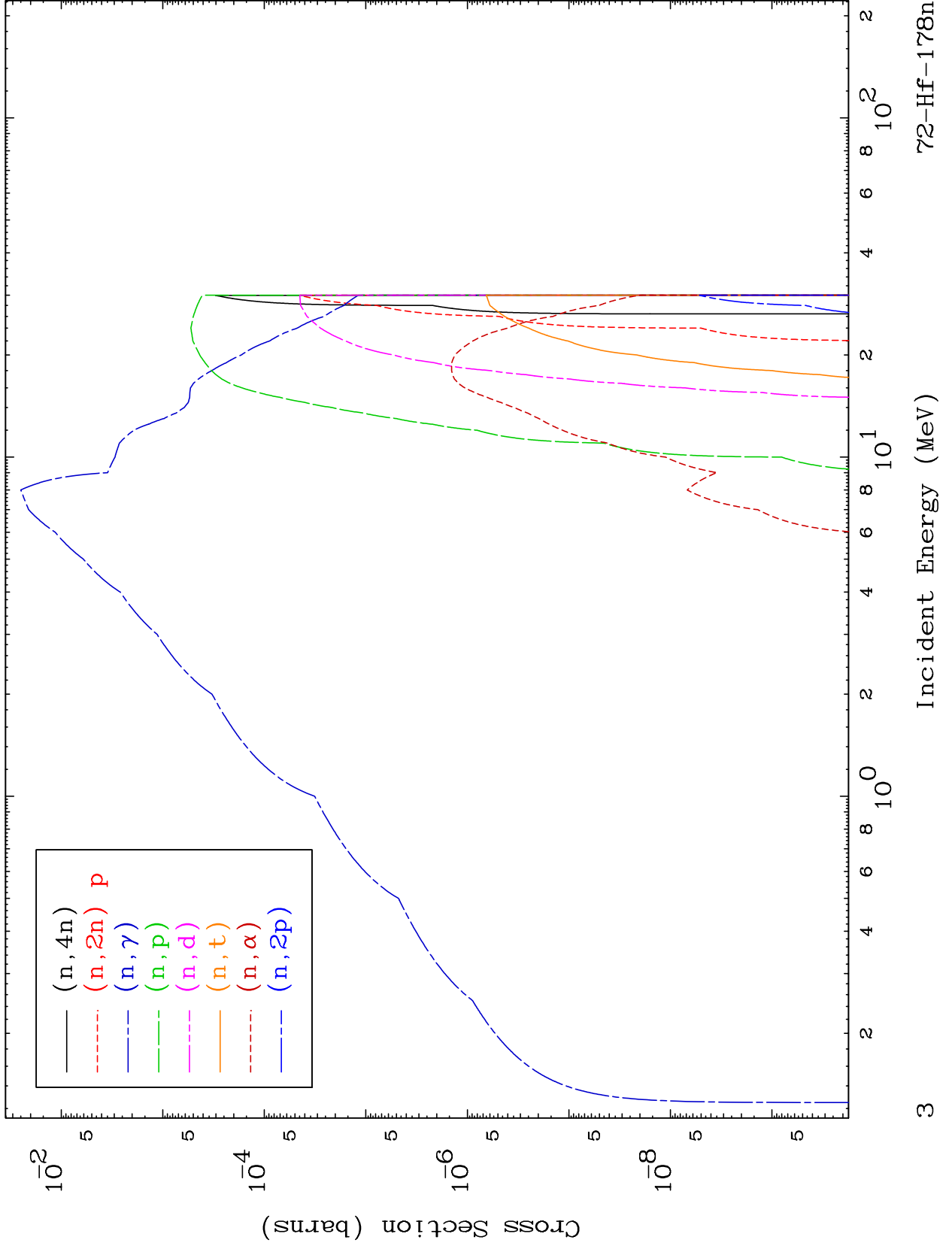
⁷²Hf-178n



⁷²Hf-178n

Incident Energy (MeV)

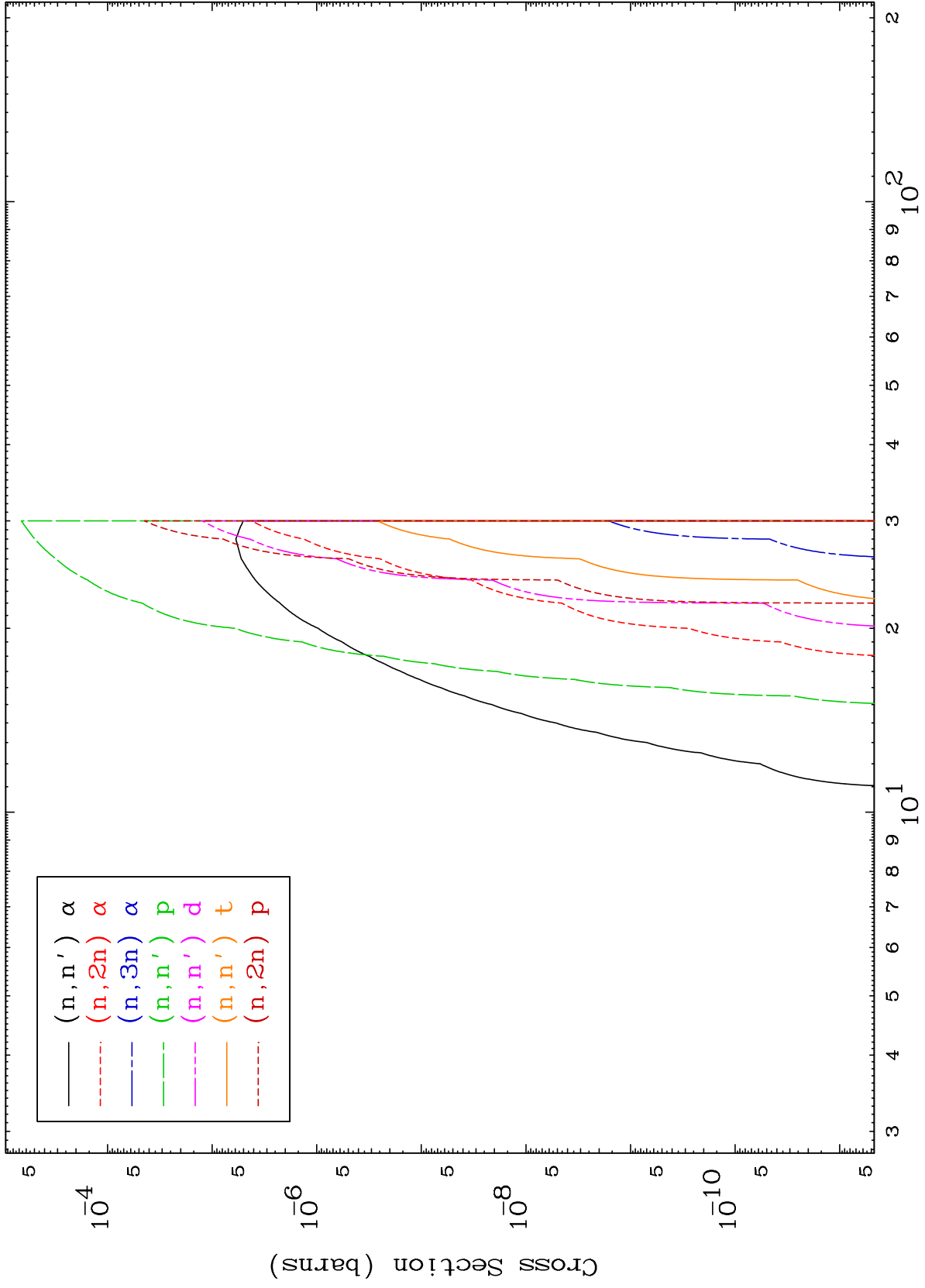
2



MAT 7239

Photon Charged Particle
0 Kelvin Cross Sections

⁷²Hf-178n



⁷²Hf-178n

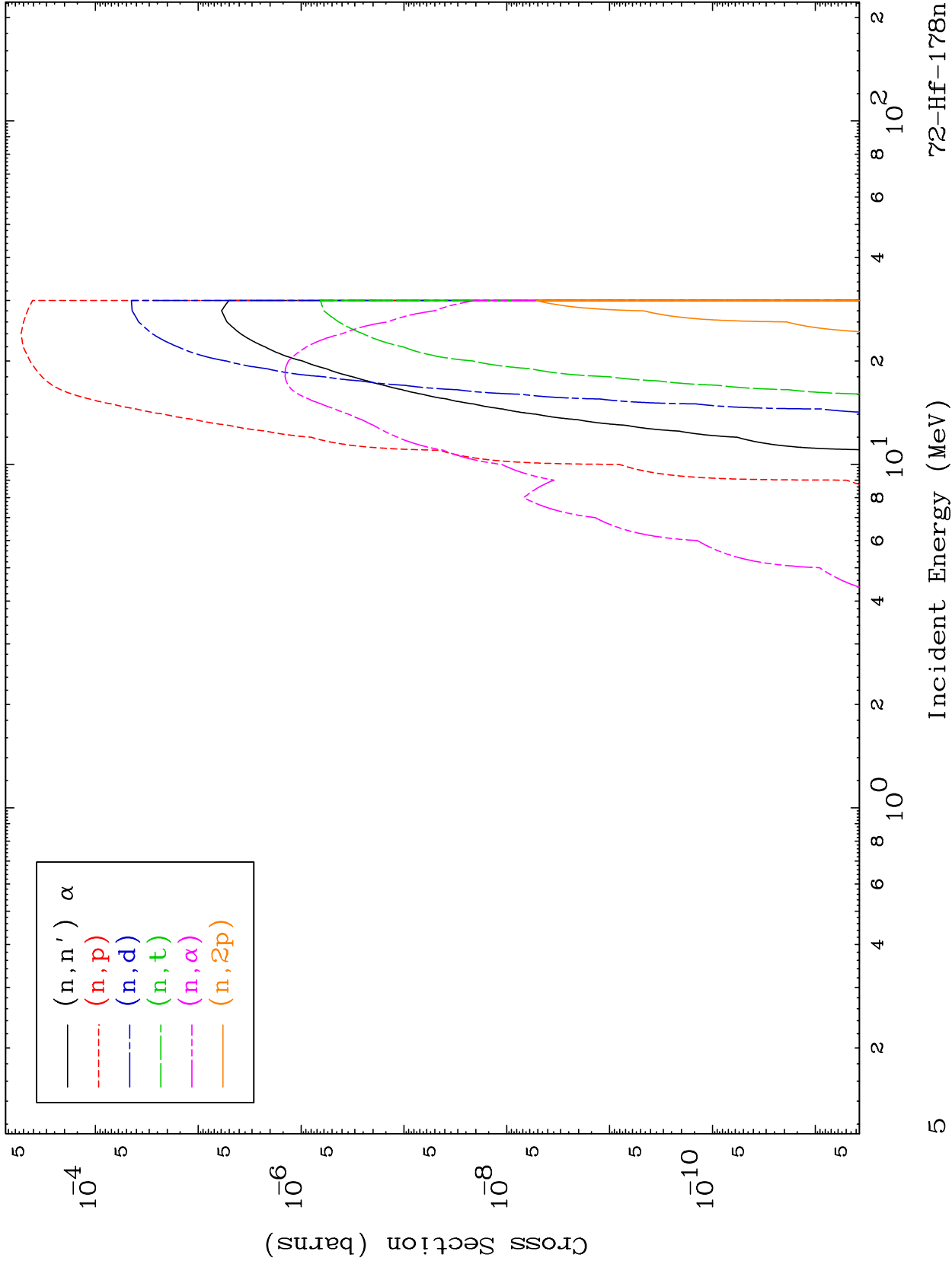
Incident Energy (MeV)

4

MAT 7239

Photon Charged Particle
0 Kelvin Cross Sections

⁷²Hf-178n

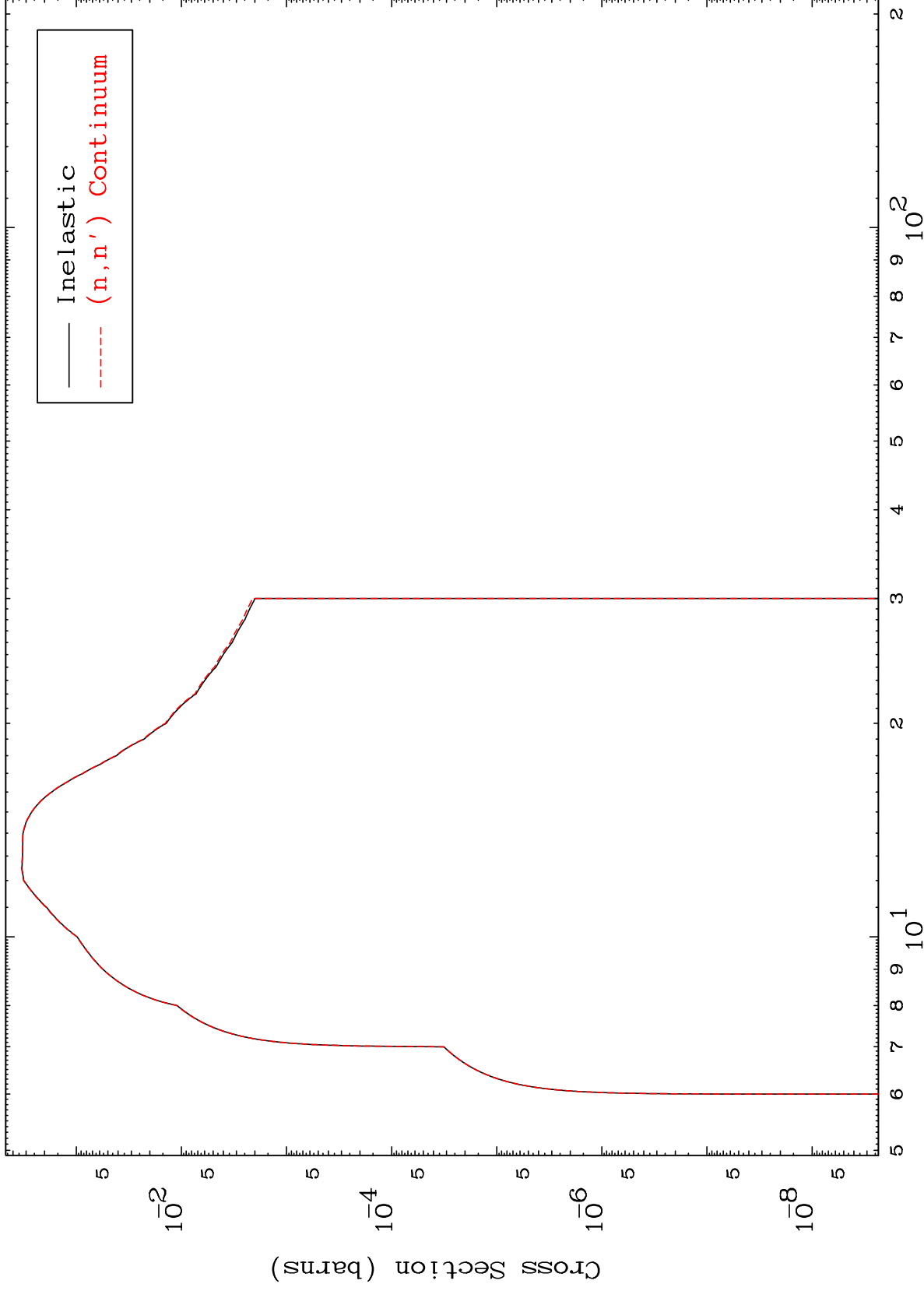


MAT 7239

(γ, n') Levels

$^{72}\text{Hf}-178\text{n}$

0 Kelvin Cross Sections



Incident Energy (MeV)

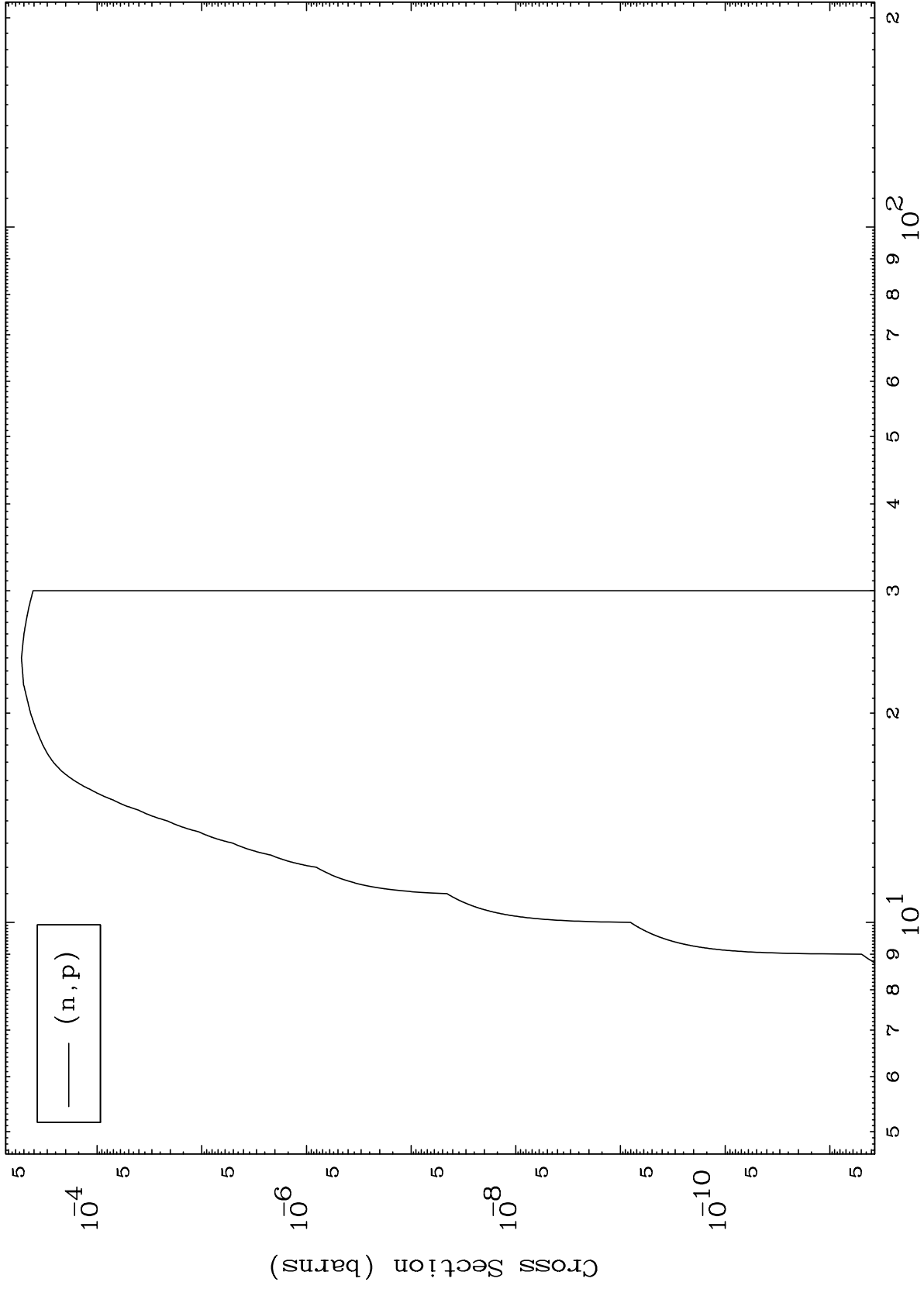
$^{72}\text{Hf}-178\text{n}$

6

MAT 7239

(γ, p) Levels
0 Kelvin Cross Sections

$^{72}\text{Hf}-178\text{n}$



7

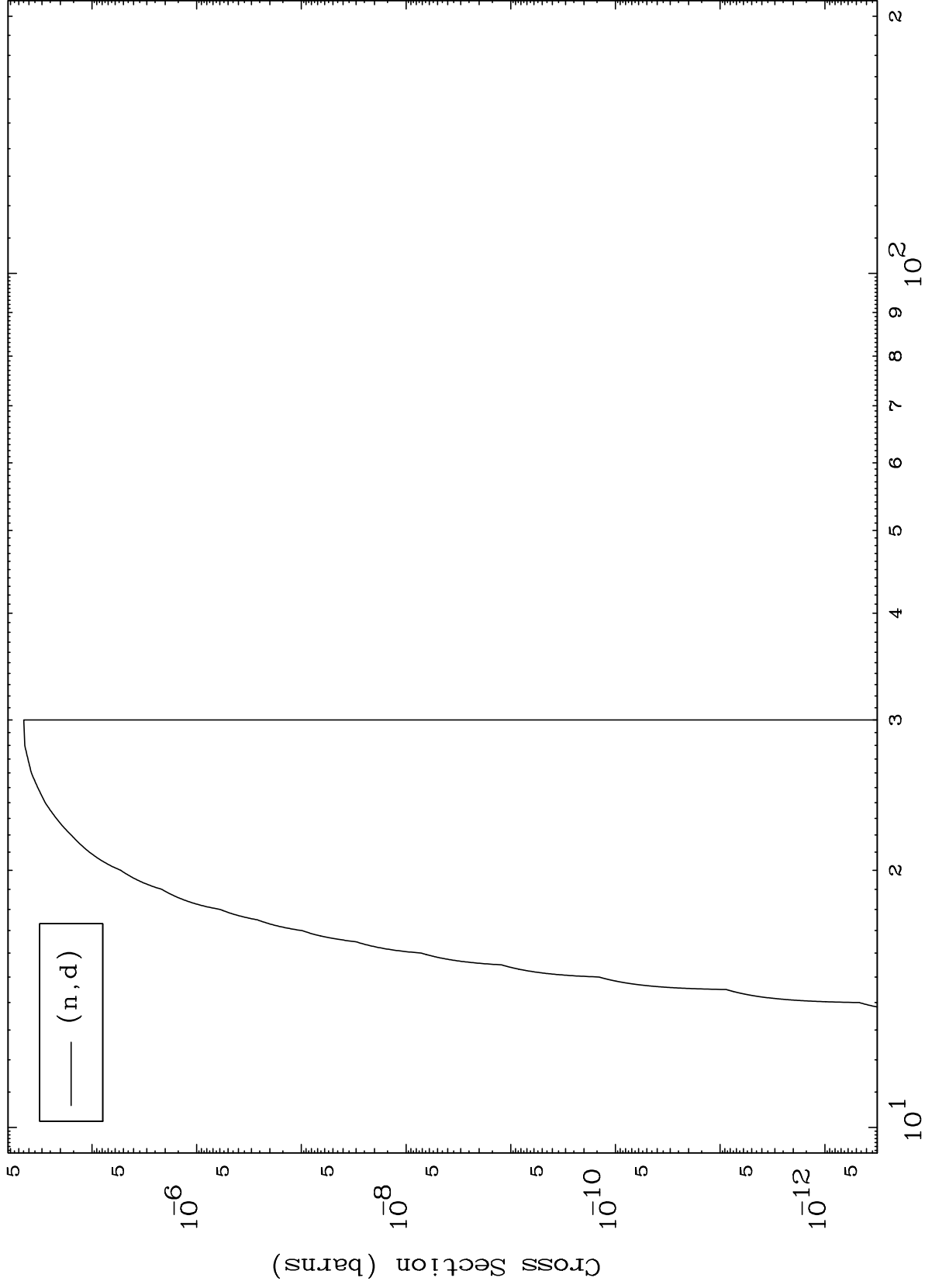
Incident Energy (MeV)

$^{72}\text{Hf}-178\text{n}$

MAT 7239

(γ, d) Levels
0 Kelvin Cross Sections

$^{72}\text{Hf}-178\text{n}$



Incident Energy (MeV)

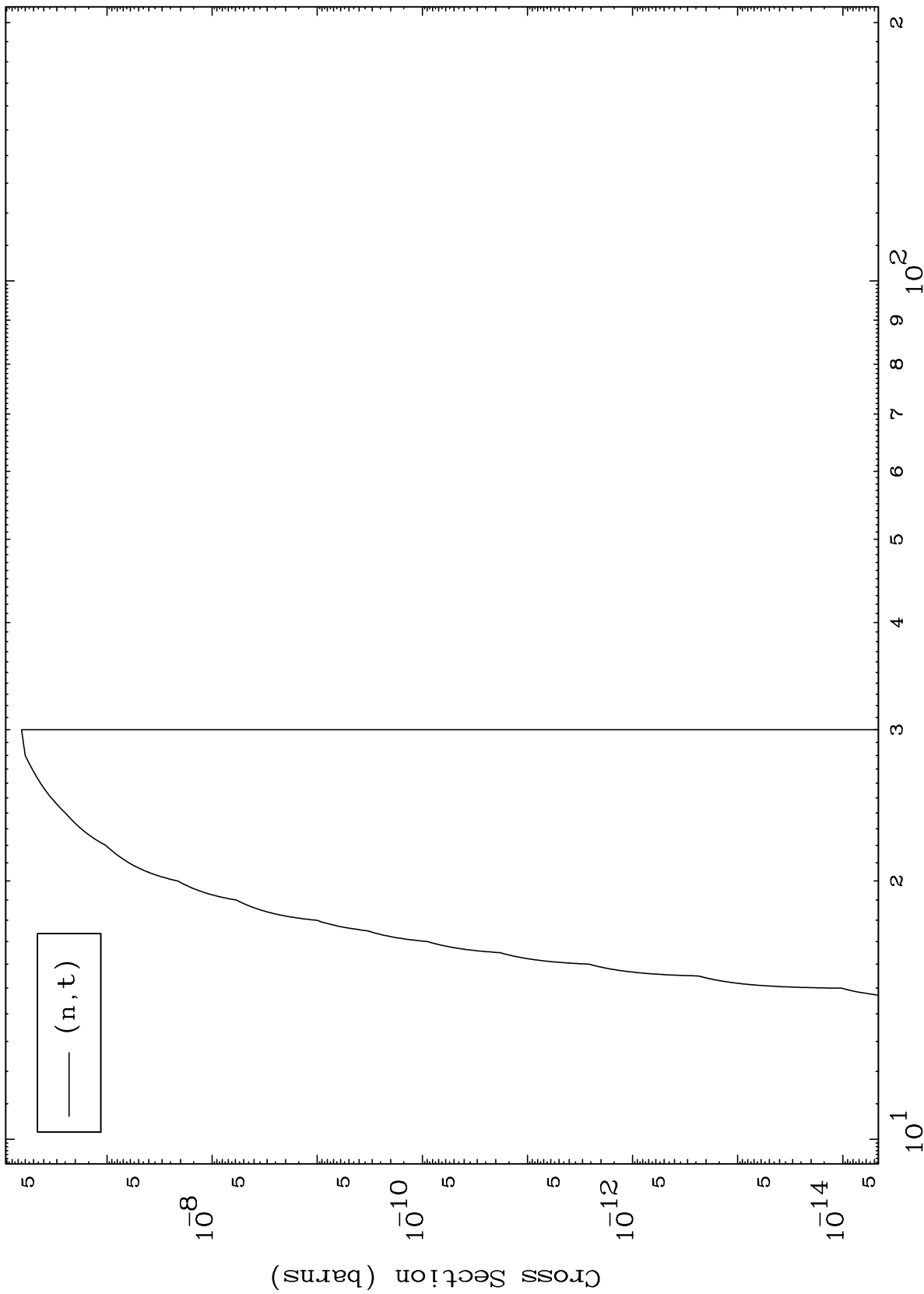
$^{72}\text{Hf}-178\text{n}$

MAT 7239

(γ, t) Levels

$^{72}\text{Hf}-178\text{n}$

0 Kelvin Cross Sections



Incident Energy (MeV)

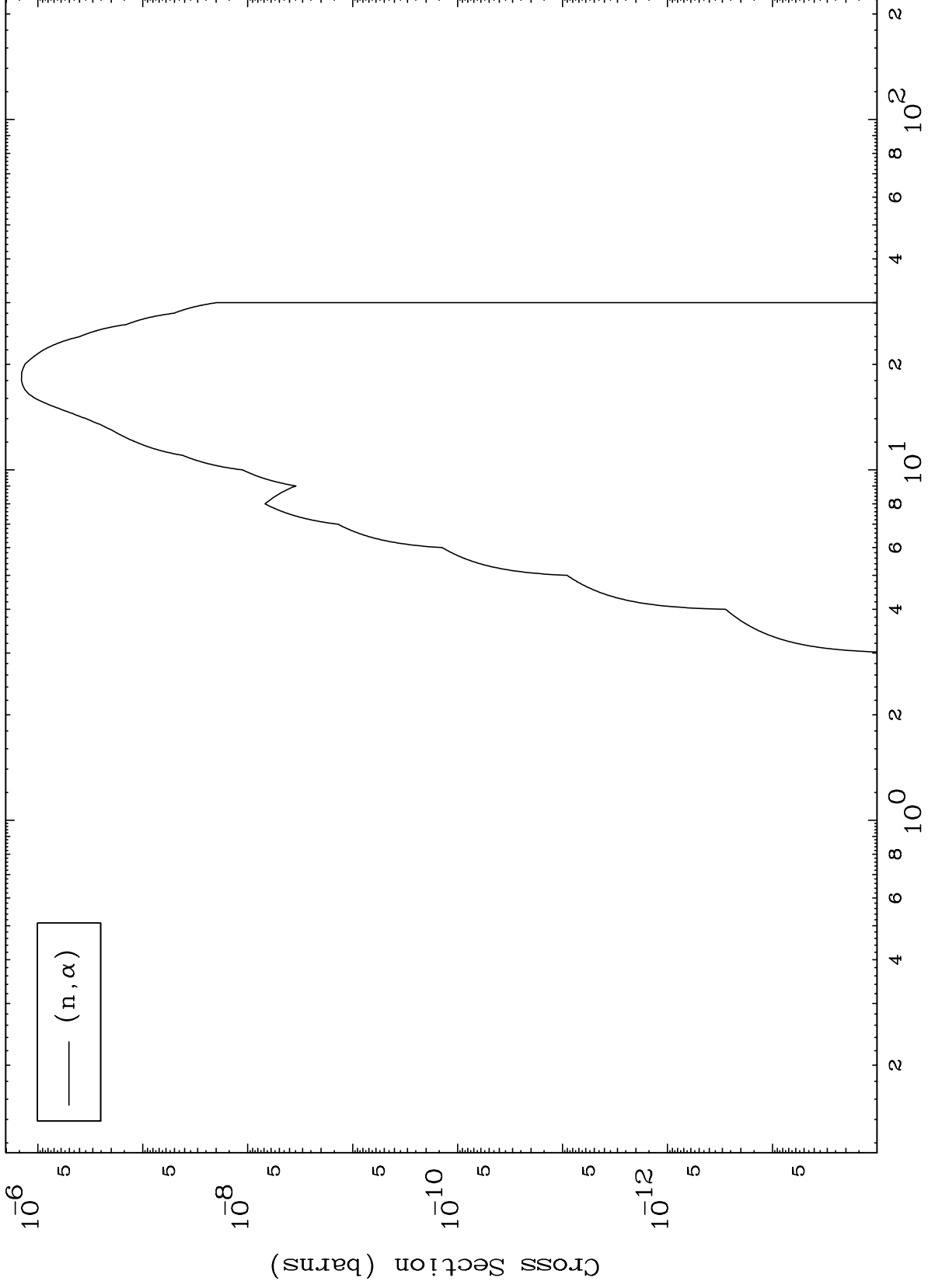
$^{72}\text{Hf}-178\text{n}$

MAT 7239

(γ, α) Levels

$^{72}\text{Hf}-178\text{n}$

0 Kelvin Cross Sections



10

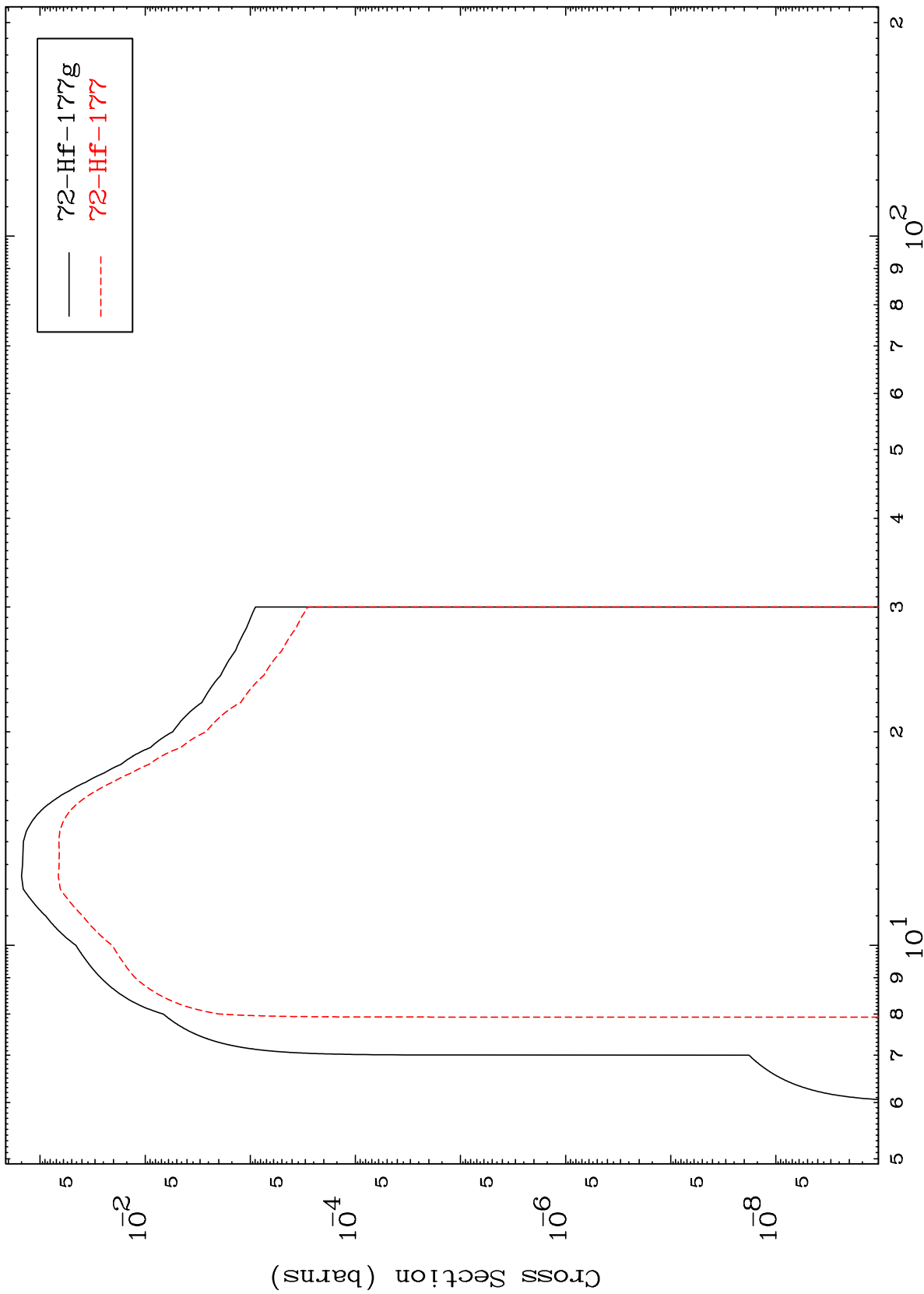
Incident Energy (MeV)

$^{72}\text{Hf}-178\text{n}$

MAT 7239

⁷²Hf-178n

Inelastic
Radionuclide Production Cross Section



11

Incident Energy (MeV)

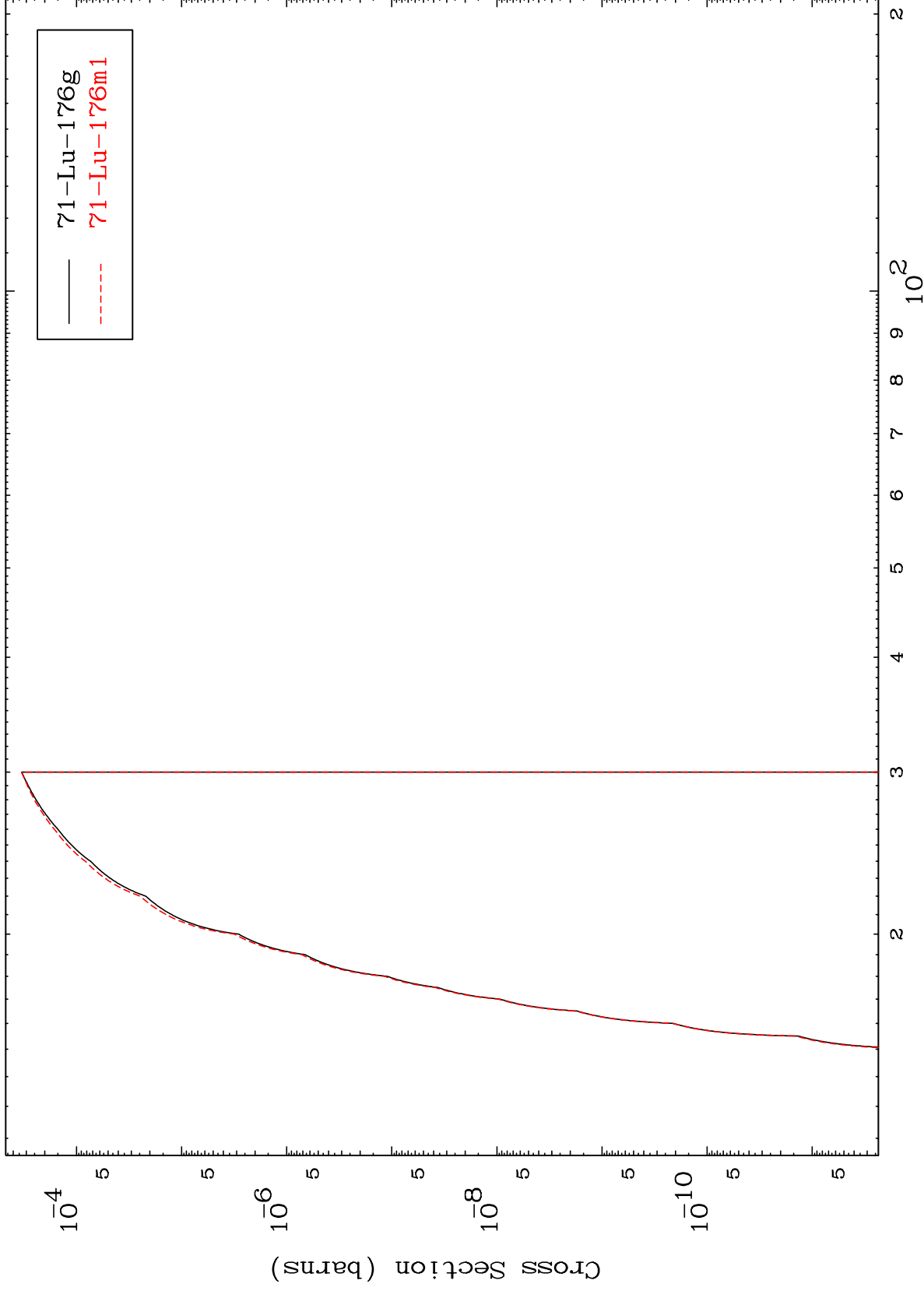
⁷²Hf-178n

MAT 7239

(n, n') p

$^{72}\text{Hf}-178\text{n}$

Radionuclide Production Cross Section



12

Incident Energy (MeV)

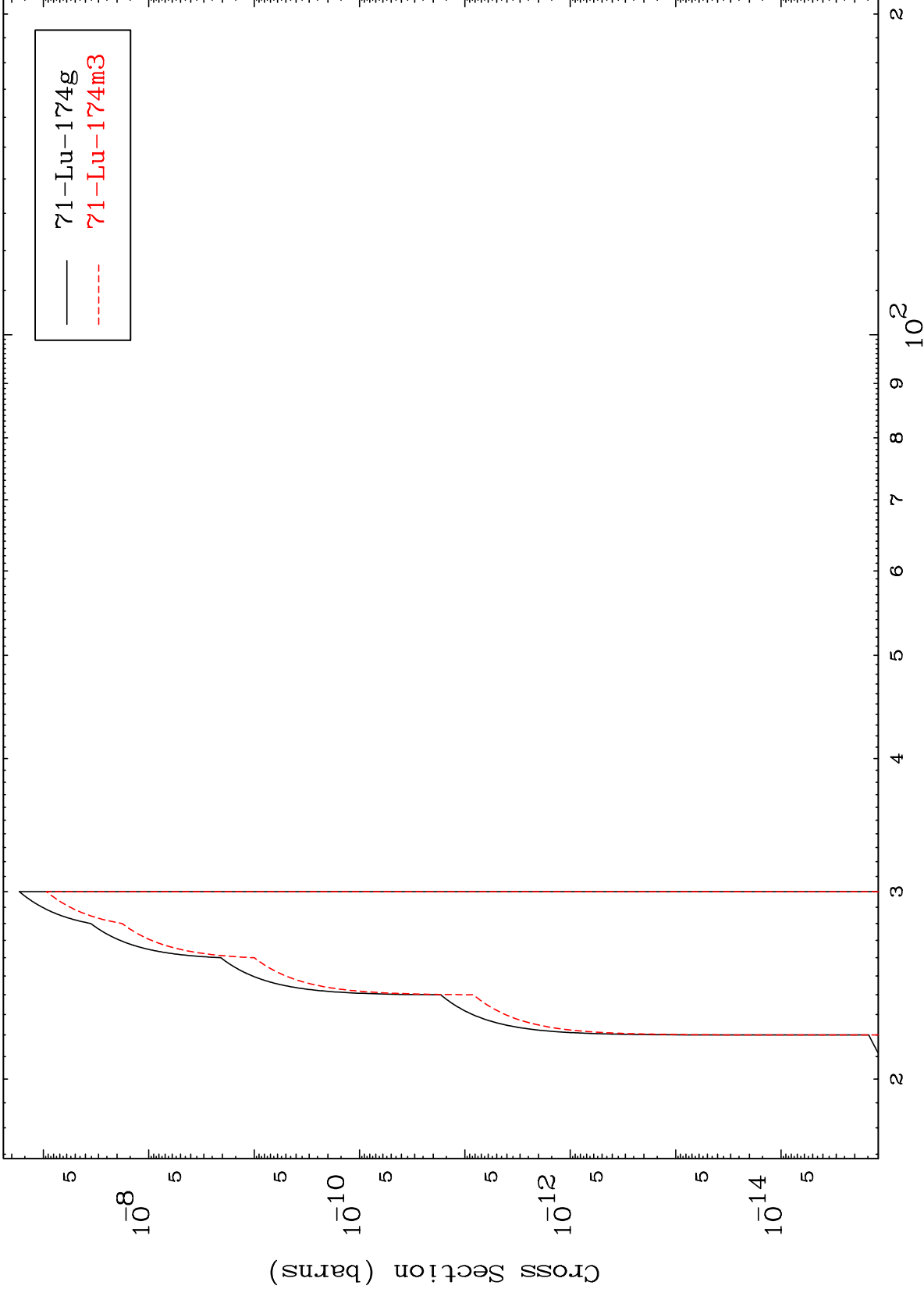
$^{72}\text{Hf}-178\text{n}$

MAT 7239

(n,n') t

⁷²Hf-¹⁷⁸n

Radionuclide Production Cross Section



13

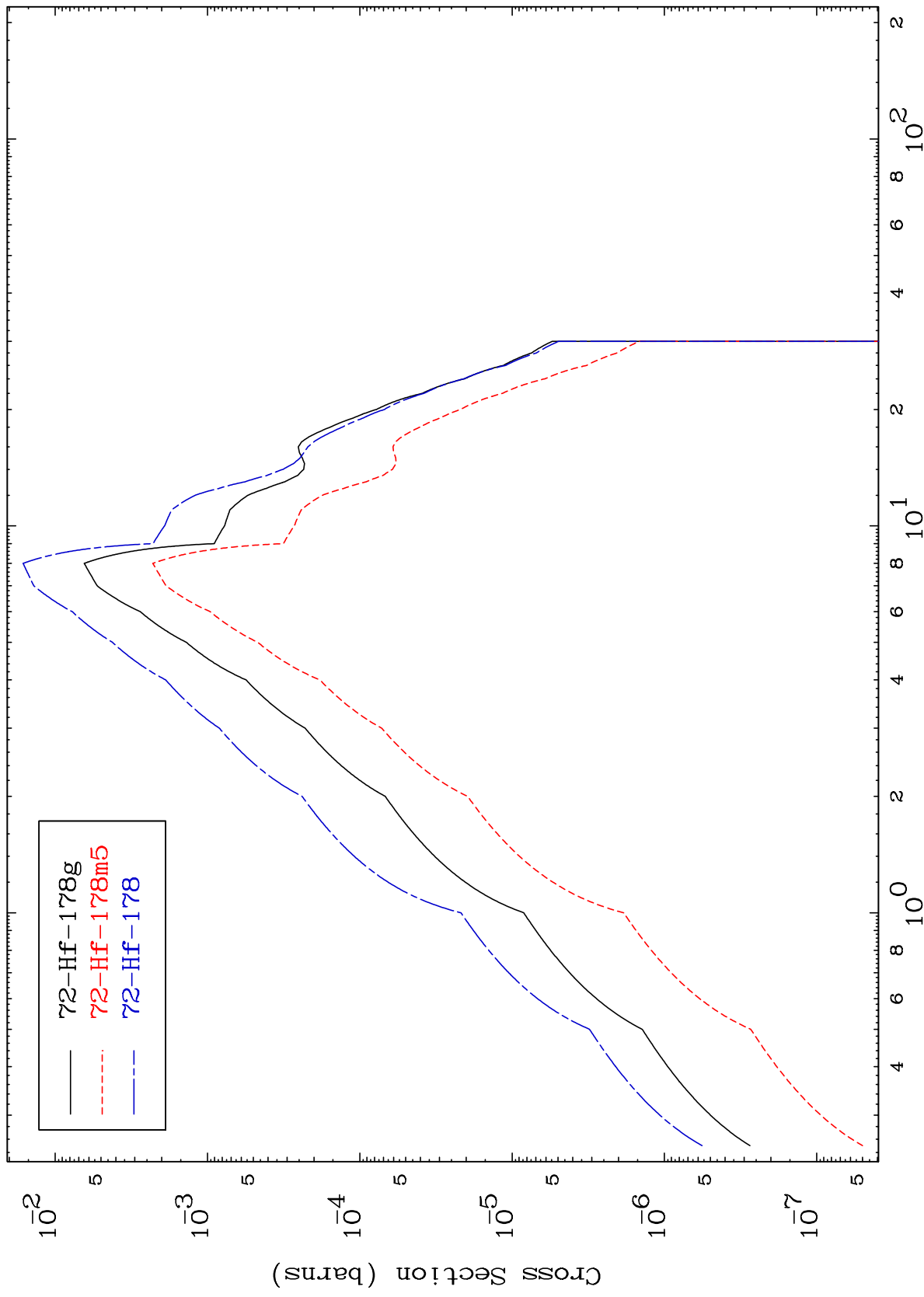
Incident Energy (MeV)

⁷²Hf-¹⁷⁸n

MAT 7239

$^{72}\text{Hf}-178\text{n}$

Radionuclide Production Cross Section
(n, γ)



14

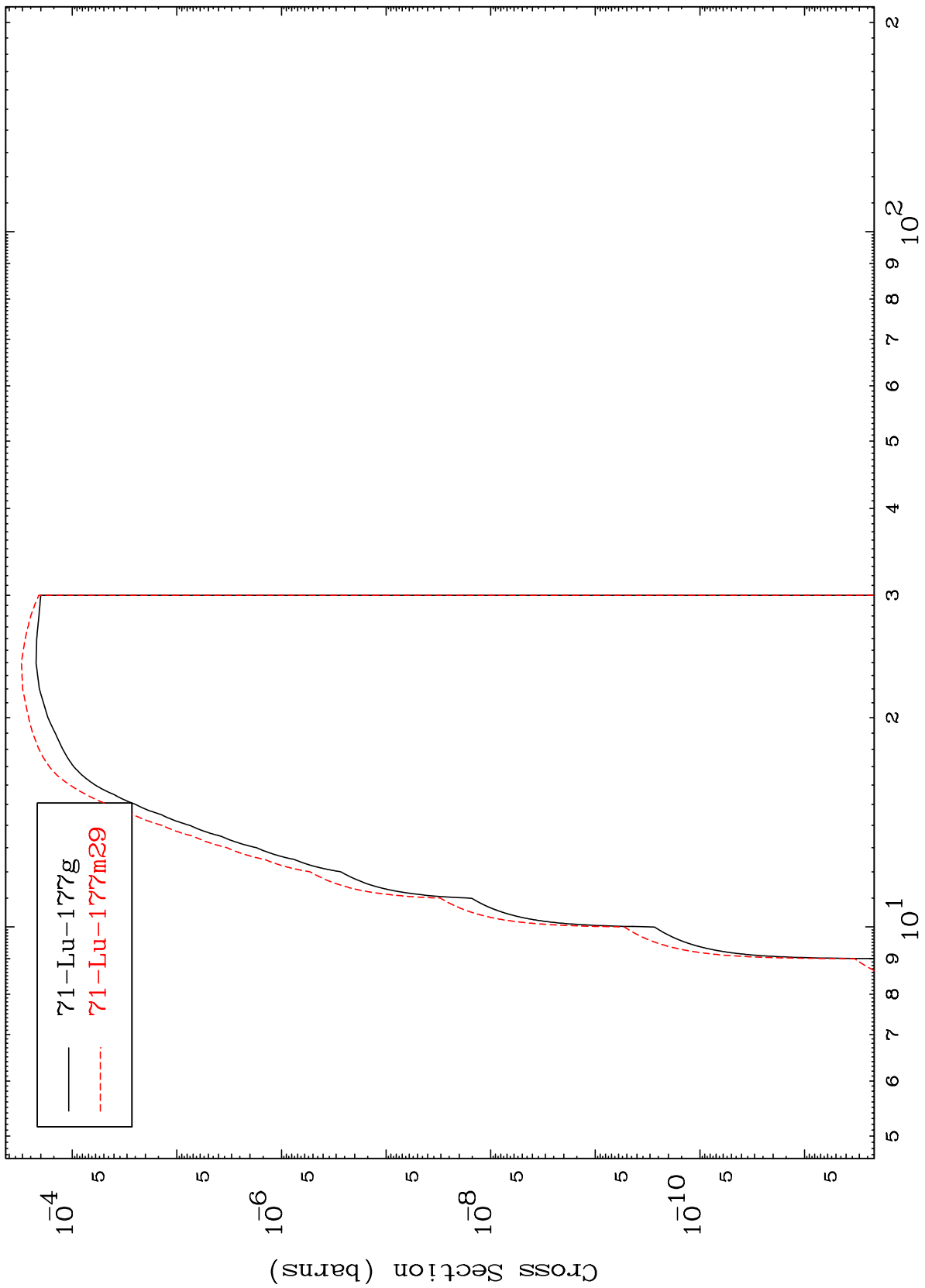
$^{72}\text{Hf}-178\text{n}$

Incident Energy (MeV)

MAT 7239

⁷²Hf-178n

Radionuclide Production Cross Section (n,p)



— ⁷¹Lu-177g
- - - ⁷¹Lu-177m29

Incident Energy (MeV)

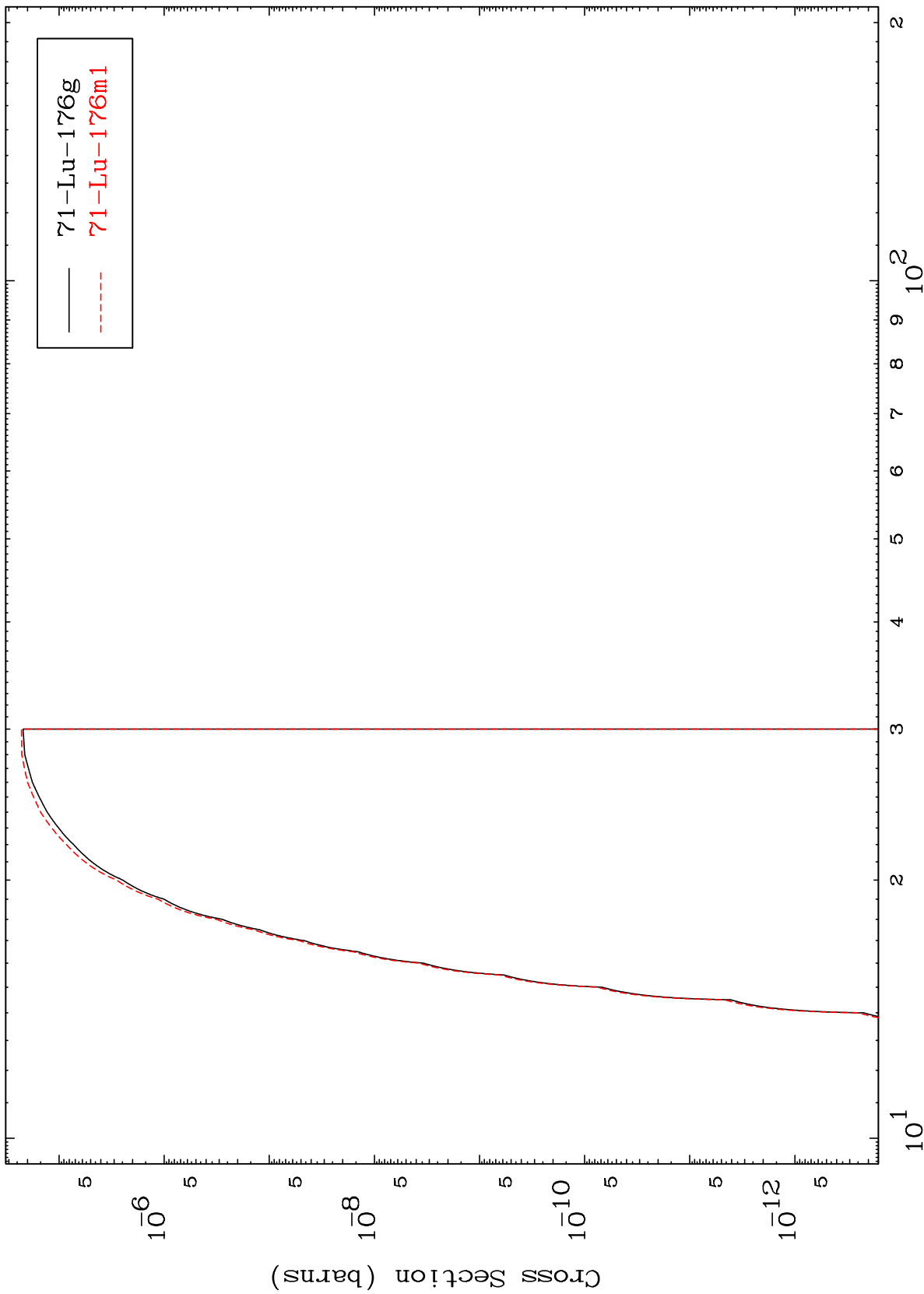
⁷²Hf-178n

15

MAT 7239

⁷²Hf-178n

(n,d)
Radionuclide Production Cross Section



⁷²Hf-178n

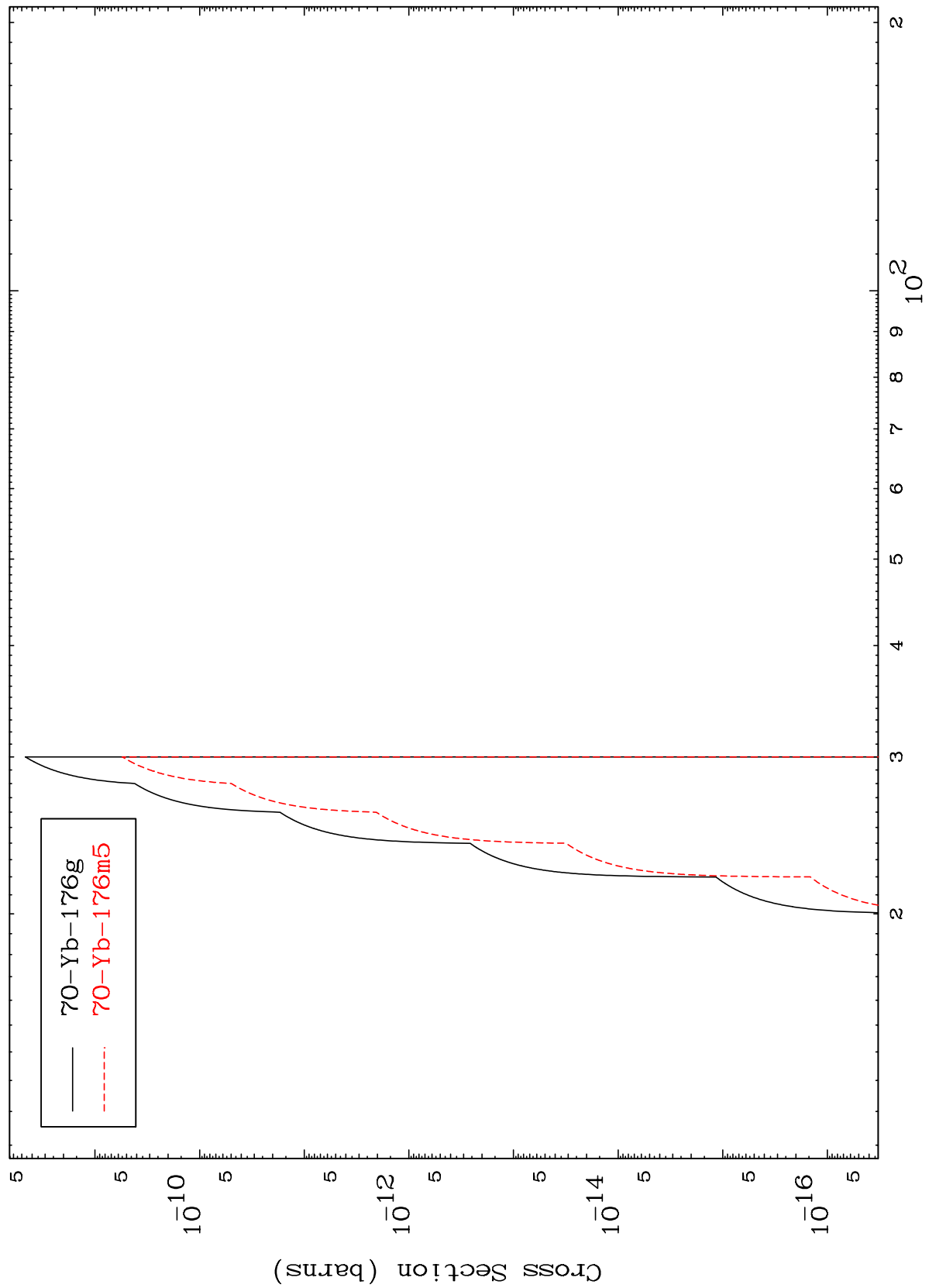
Incident Energy (MeV)

16

MAT 7239

⁷²Hf-178n

(n,2p)
Radionuclide Production Cross Section



17

Incident Energy (MeV)

⁷²Hf-178n