

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

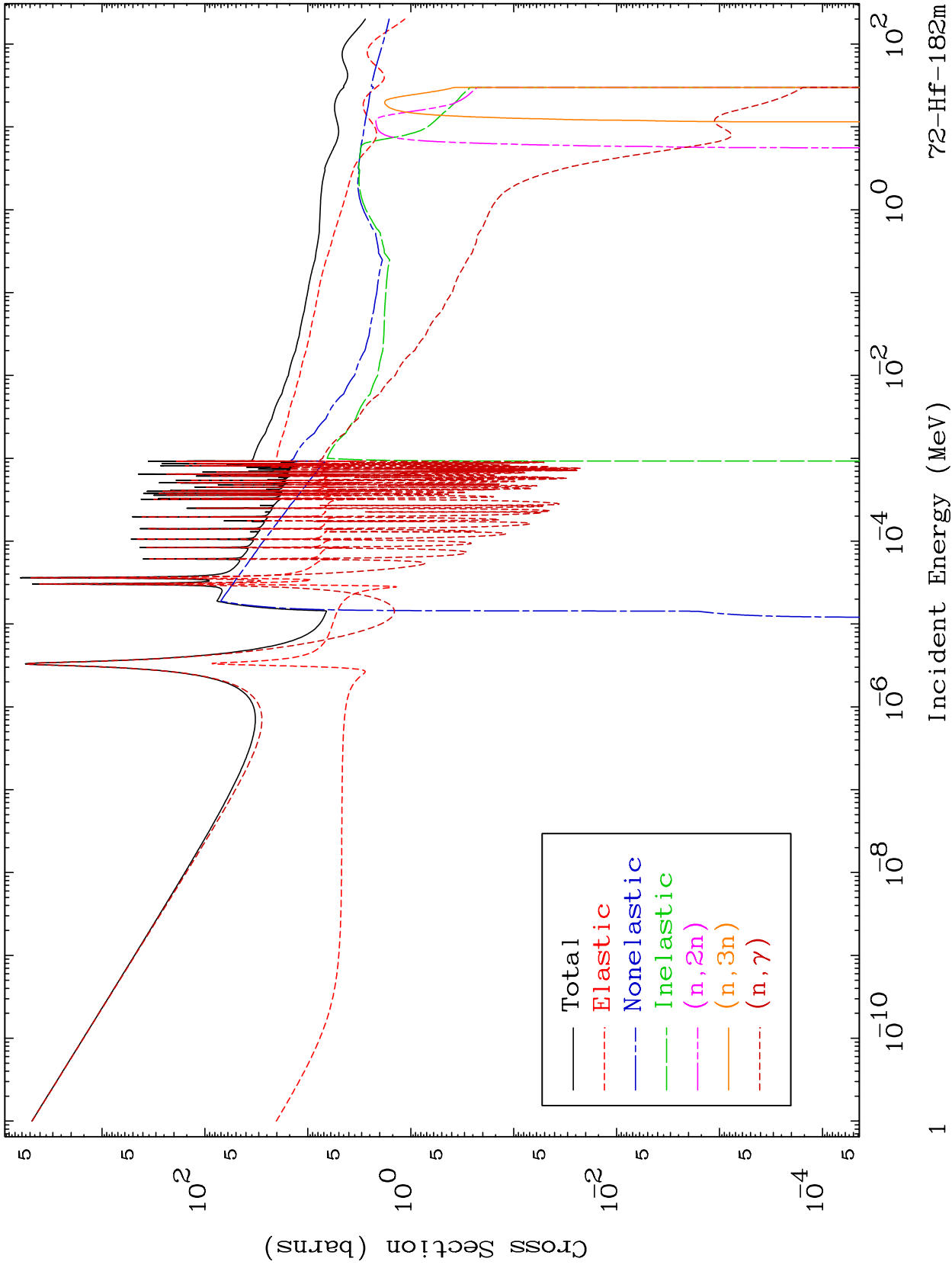
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7250

Neutron Major
293 Kelvin Cross Sections

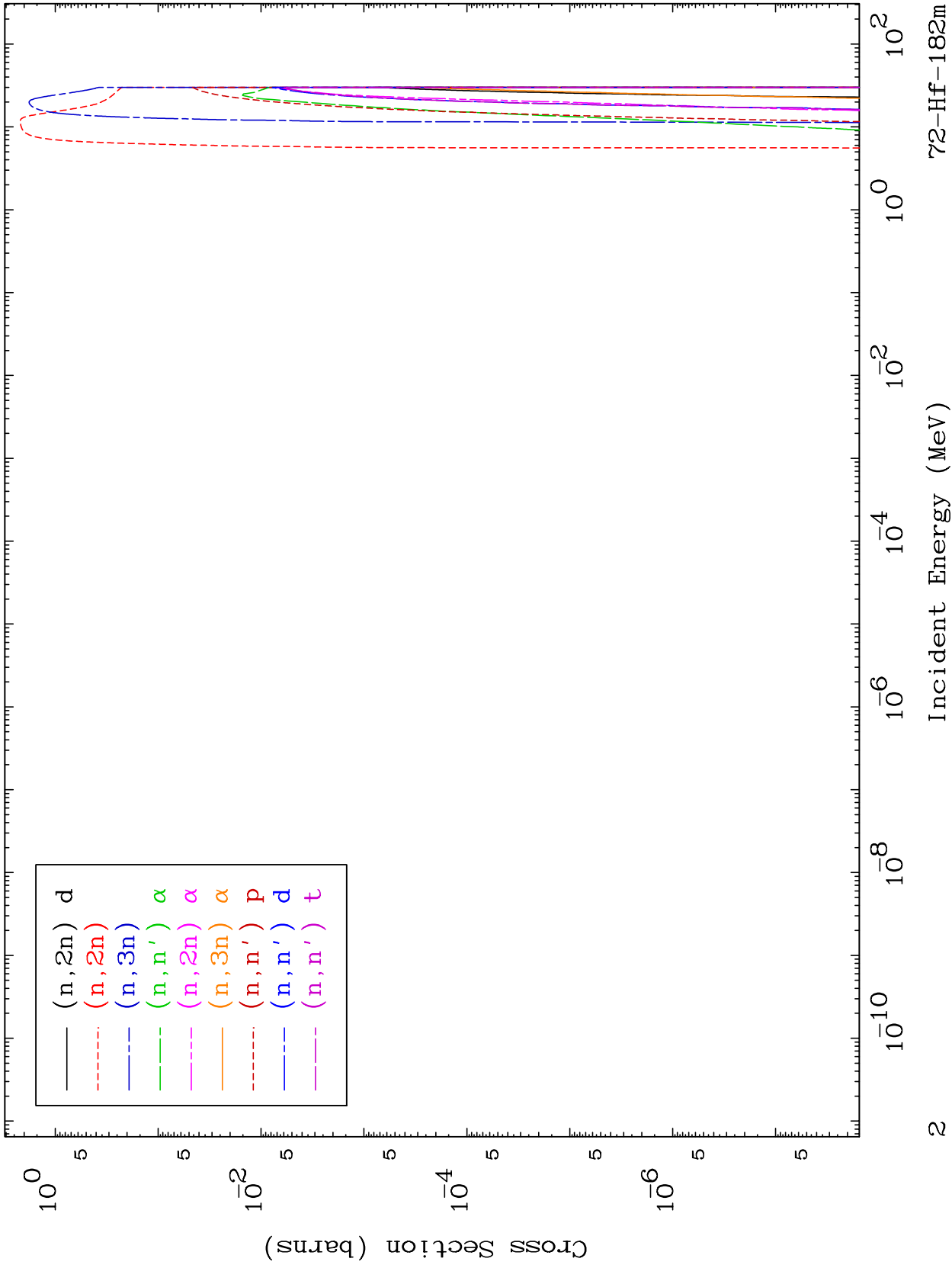
72-Hf-182m



MAT 7250

Neutron Absorption
293 Kelvin Cross Sections

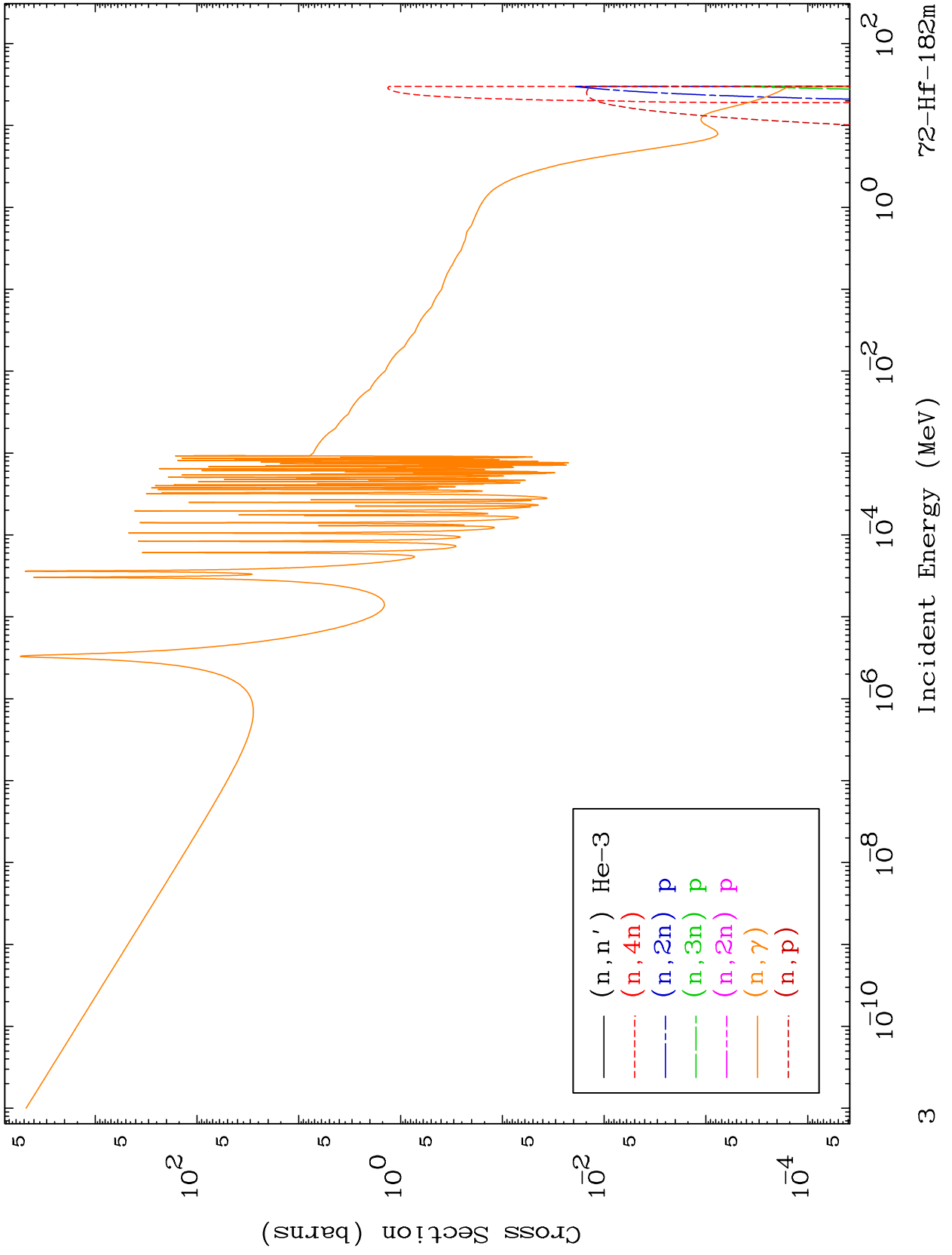
72-Hf-182m

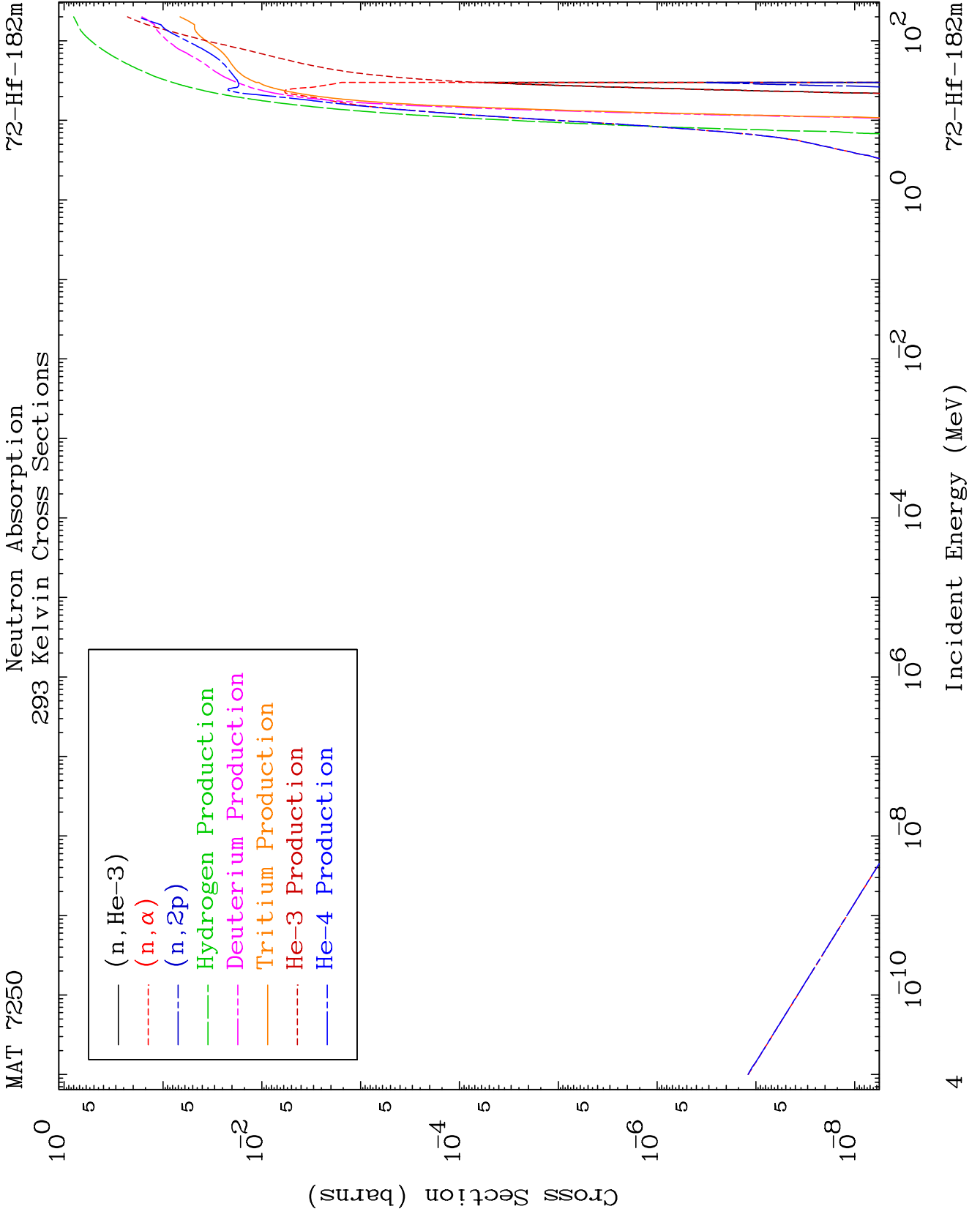


MAT 7250

Neutron Absorption
293 Kelvin Cross Sections

72-Hf-182m

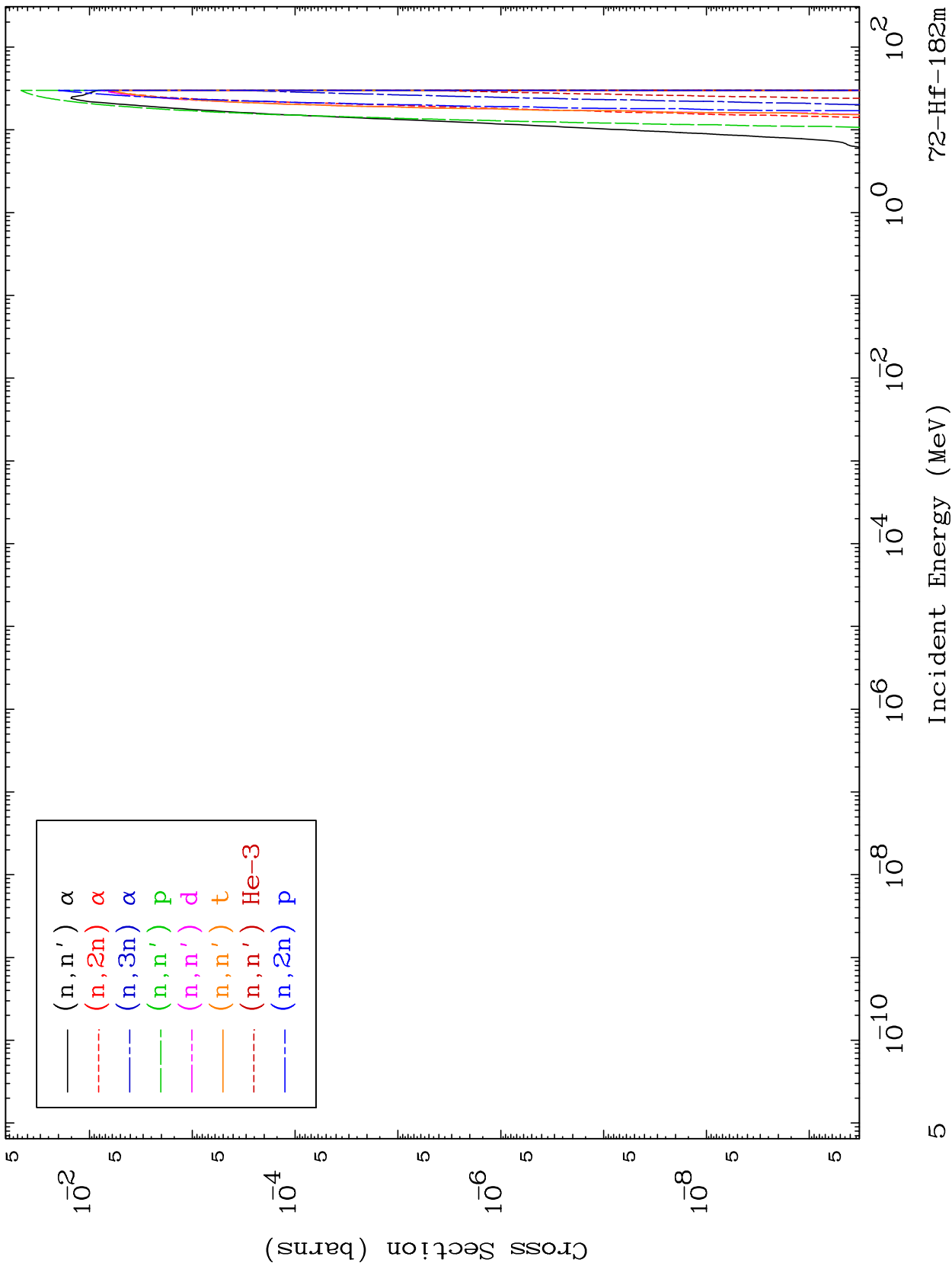




MAT 7250

Charged Particle
293 Kelvin Cross Sections

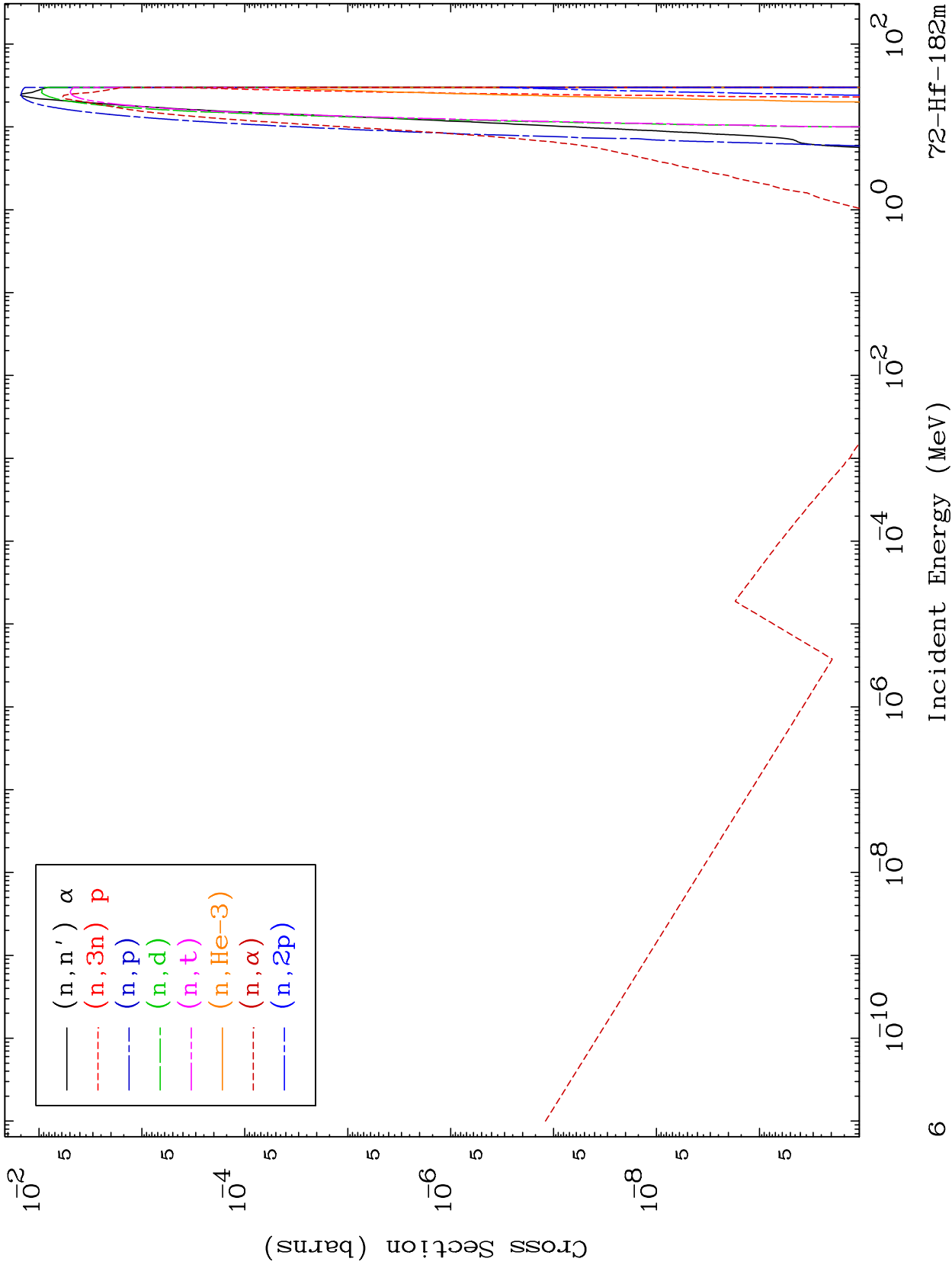
72-Hf-182m



MAT 7250

Charged Particle
293 Kelvin Cross Sections

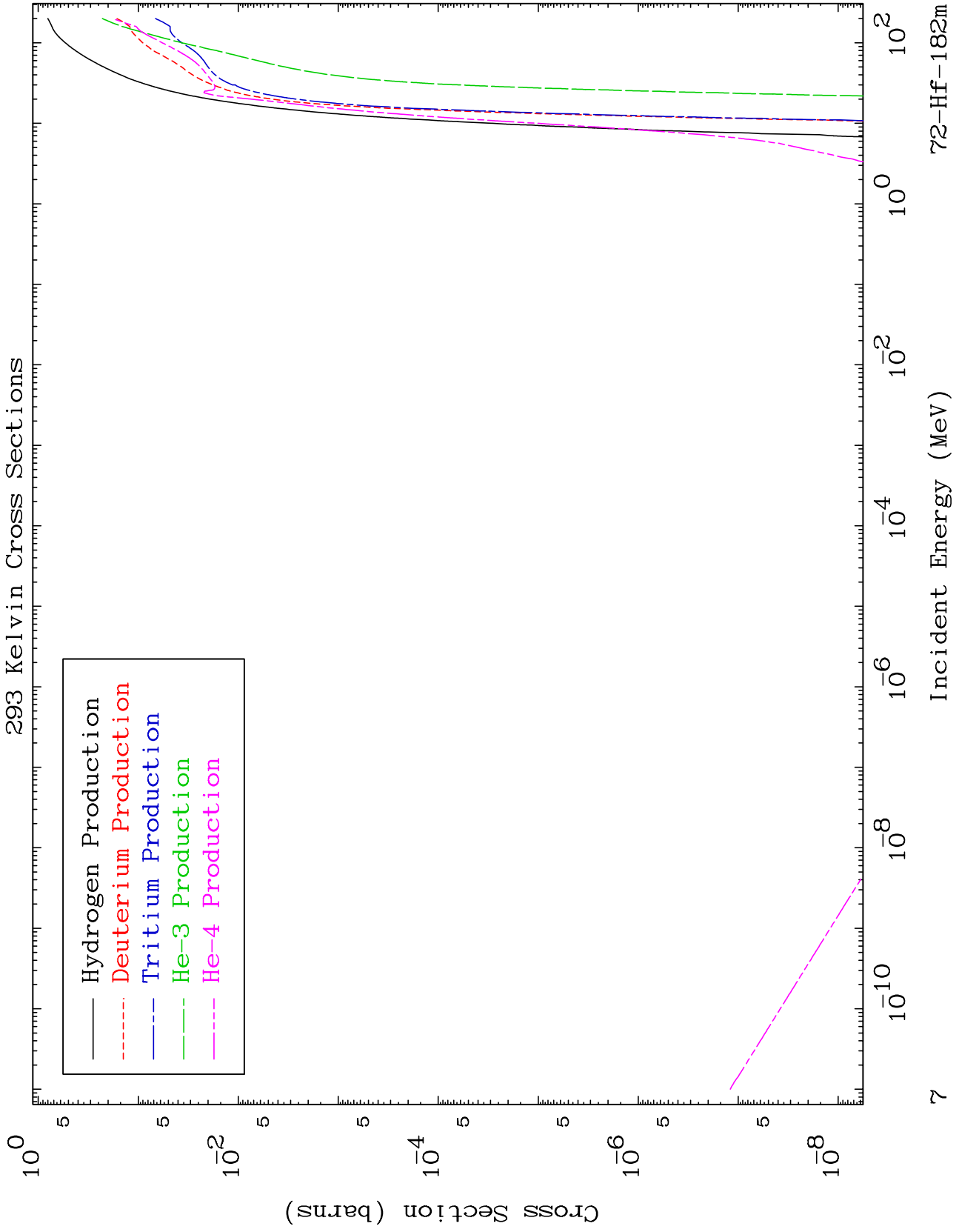
72-Hf-182m



MAT 7250

Particle Production
293 Kelvin Cross Sections

72-Hf-182m

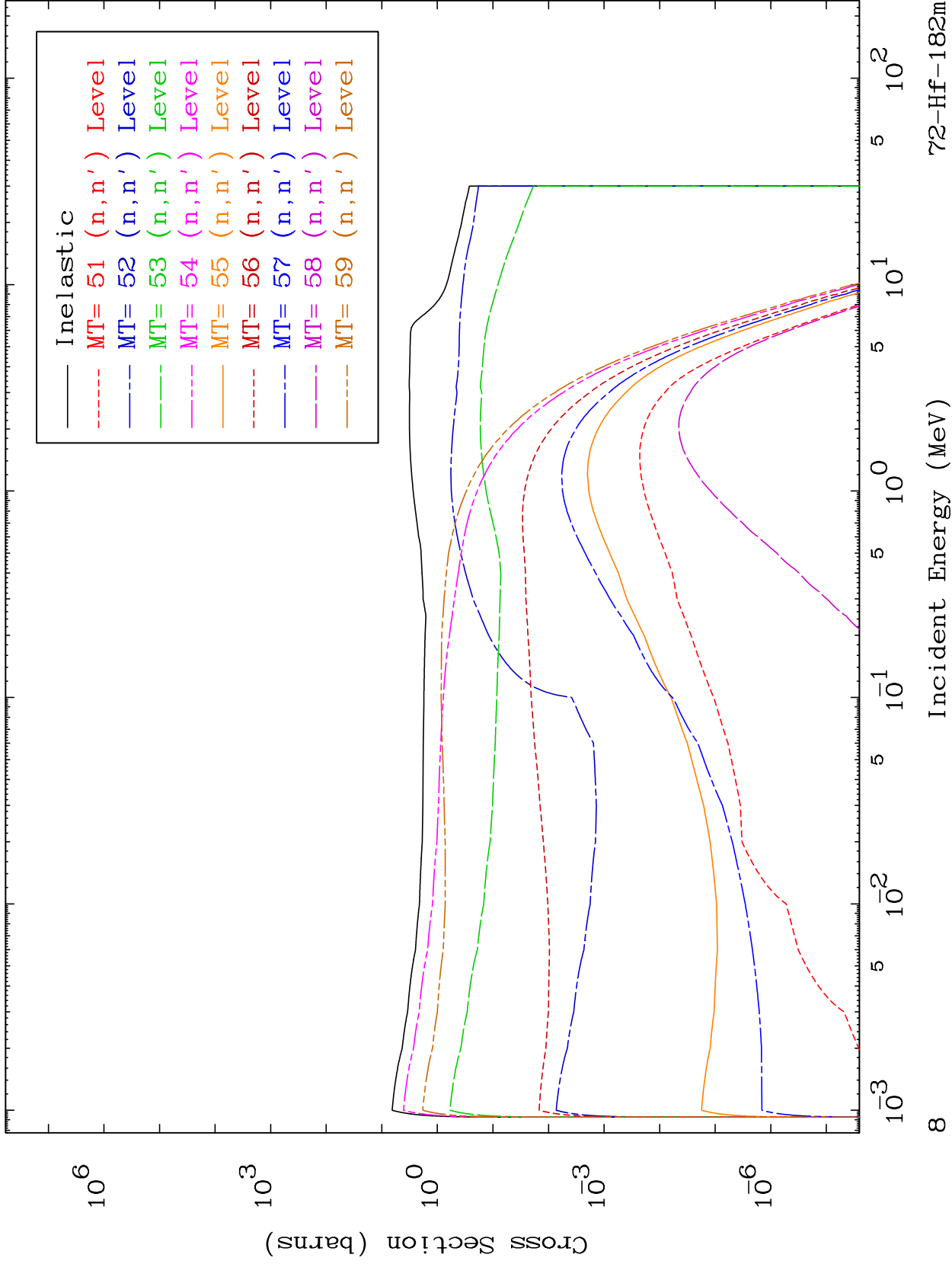


MAT 7250

(n,n') Levels

293 Kelvin Cross Sections

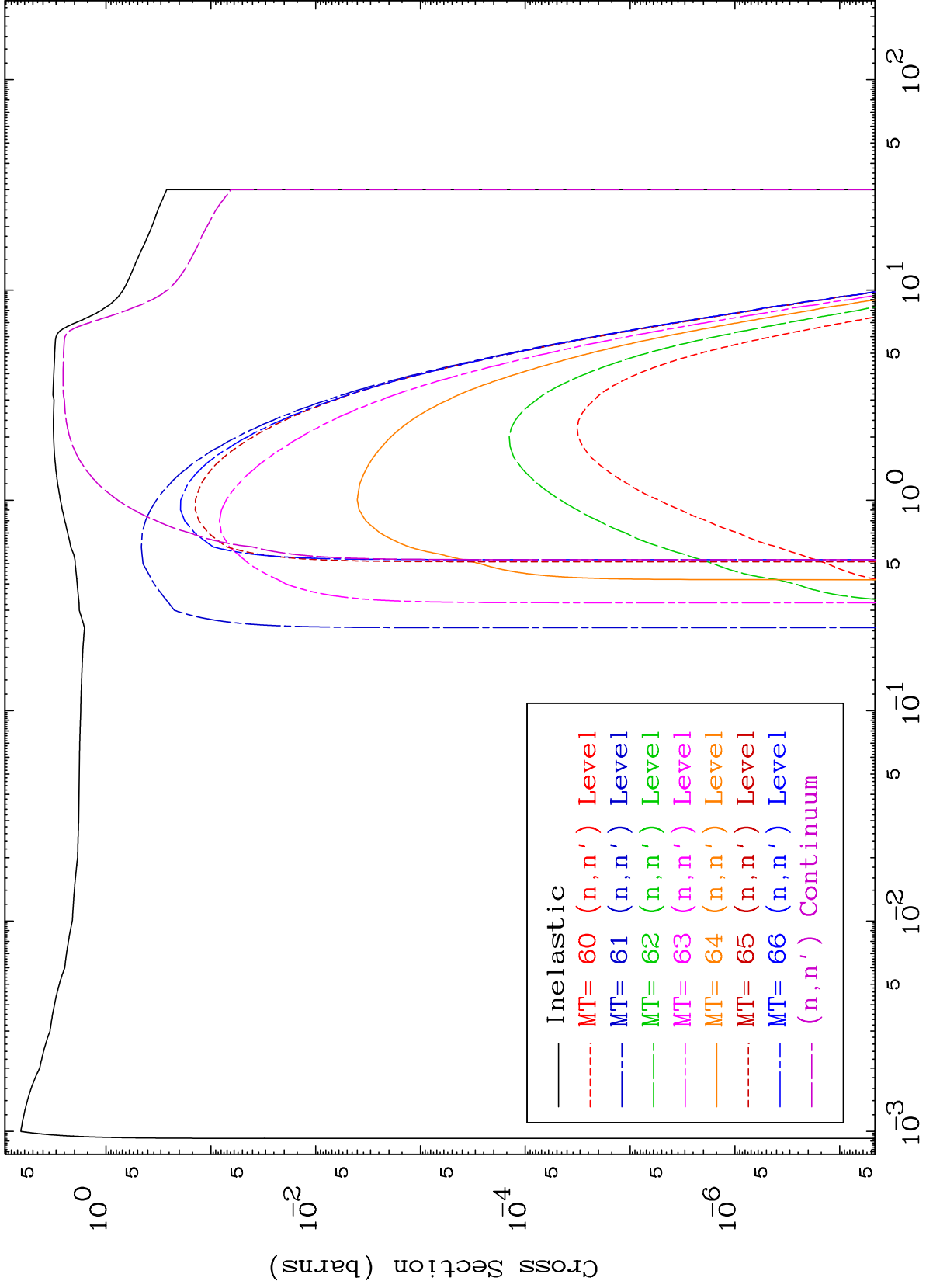
72-Hf-182m



MAT 7250

(n,n') Levels
293 Kelvin Cross Sections

72-Hf-182m



9

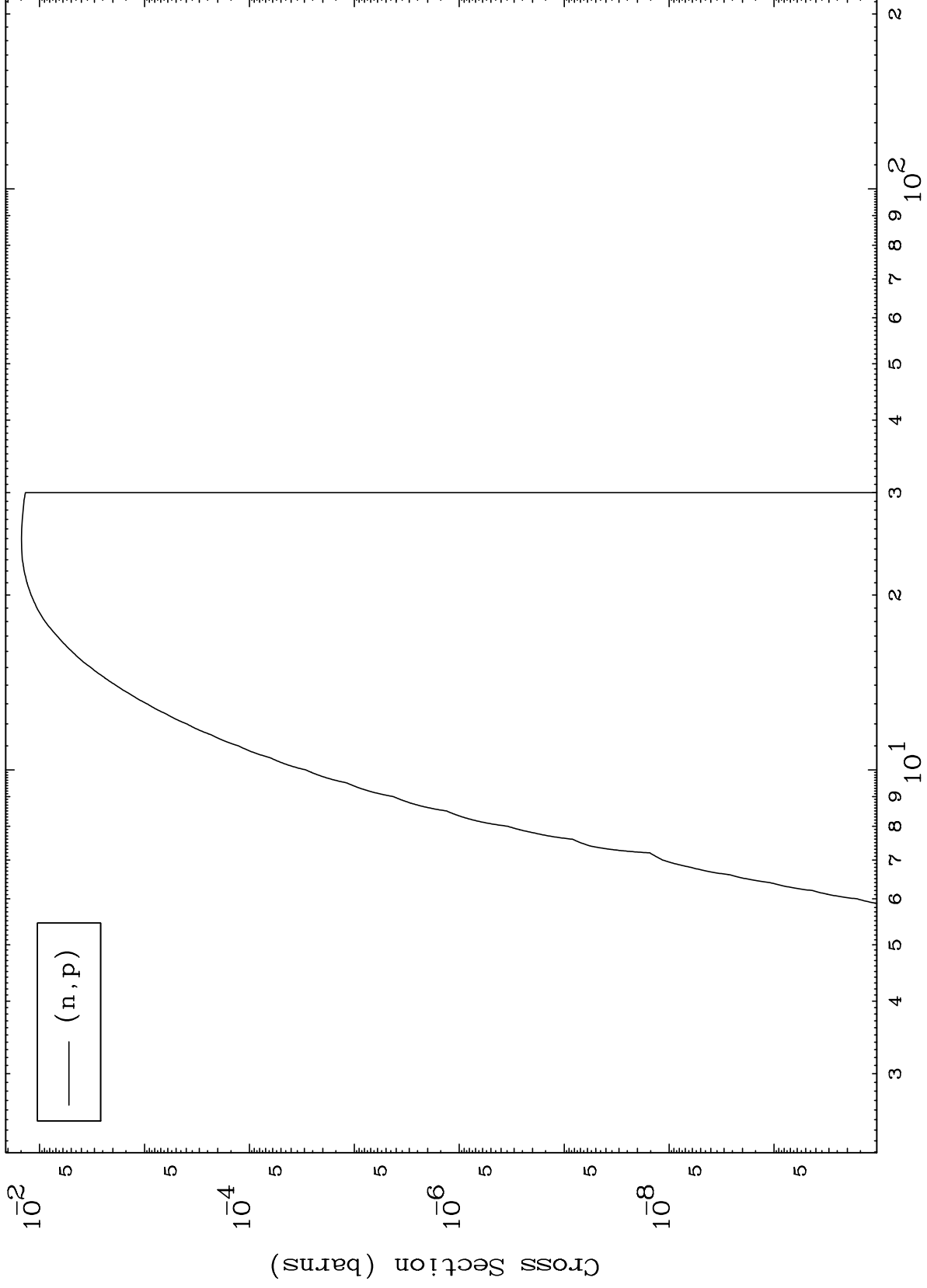
Incident Energy (MeV)

72-Hf-182m

MAT 7250

(n,p) Levels
293 Kelvin Cross Sections

72-Hf-182m



10

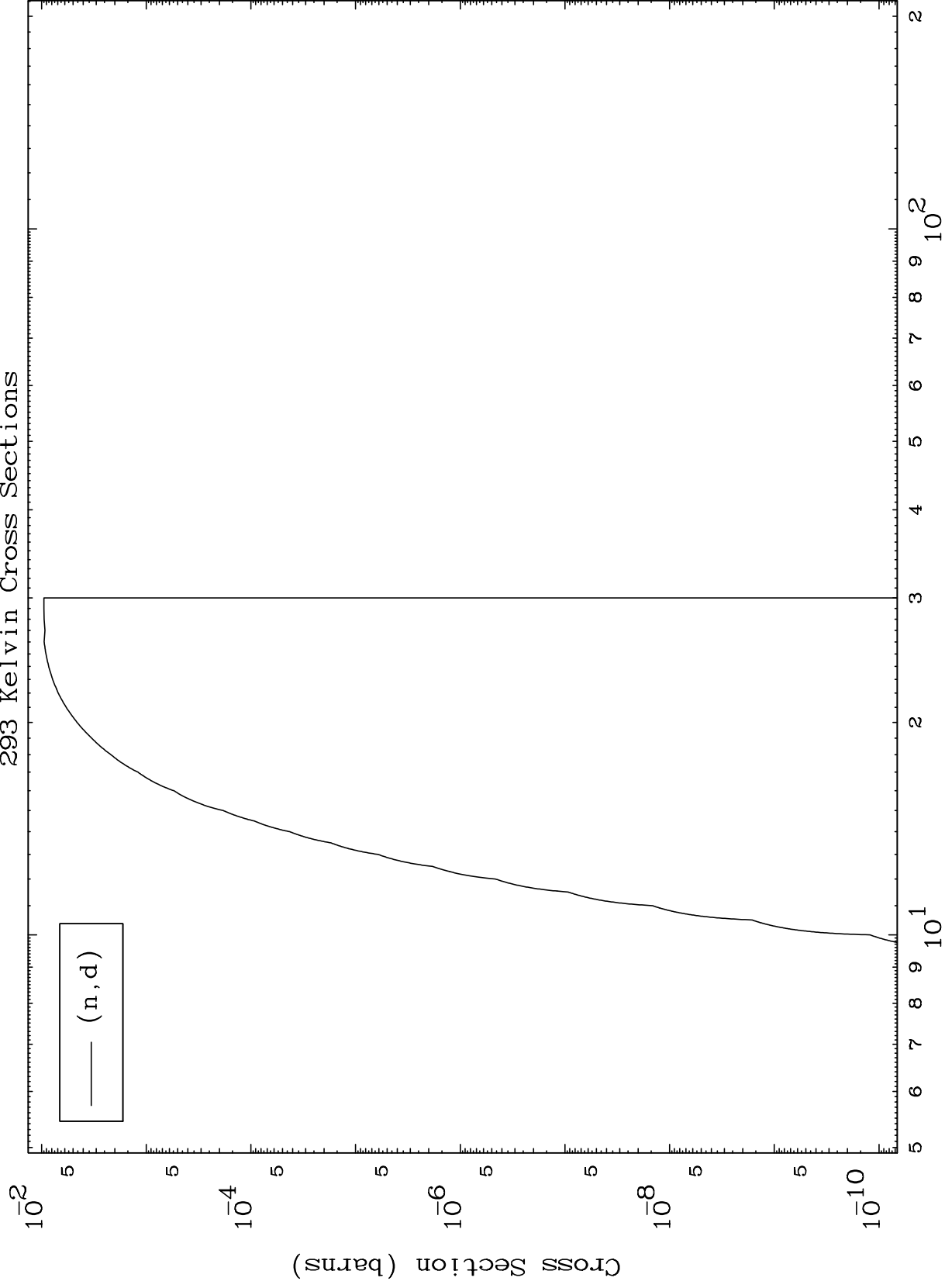
Incident Energy (MeV)

72-Hf-182m

MAT 7250

(n,d) Levels
293 Kelvin Cross Sections

72-Hf-182m



11

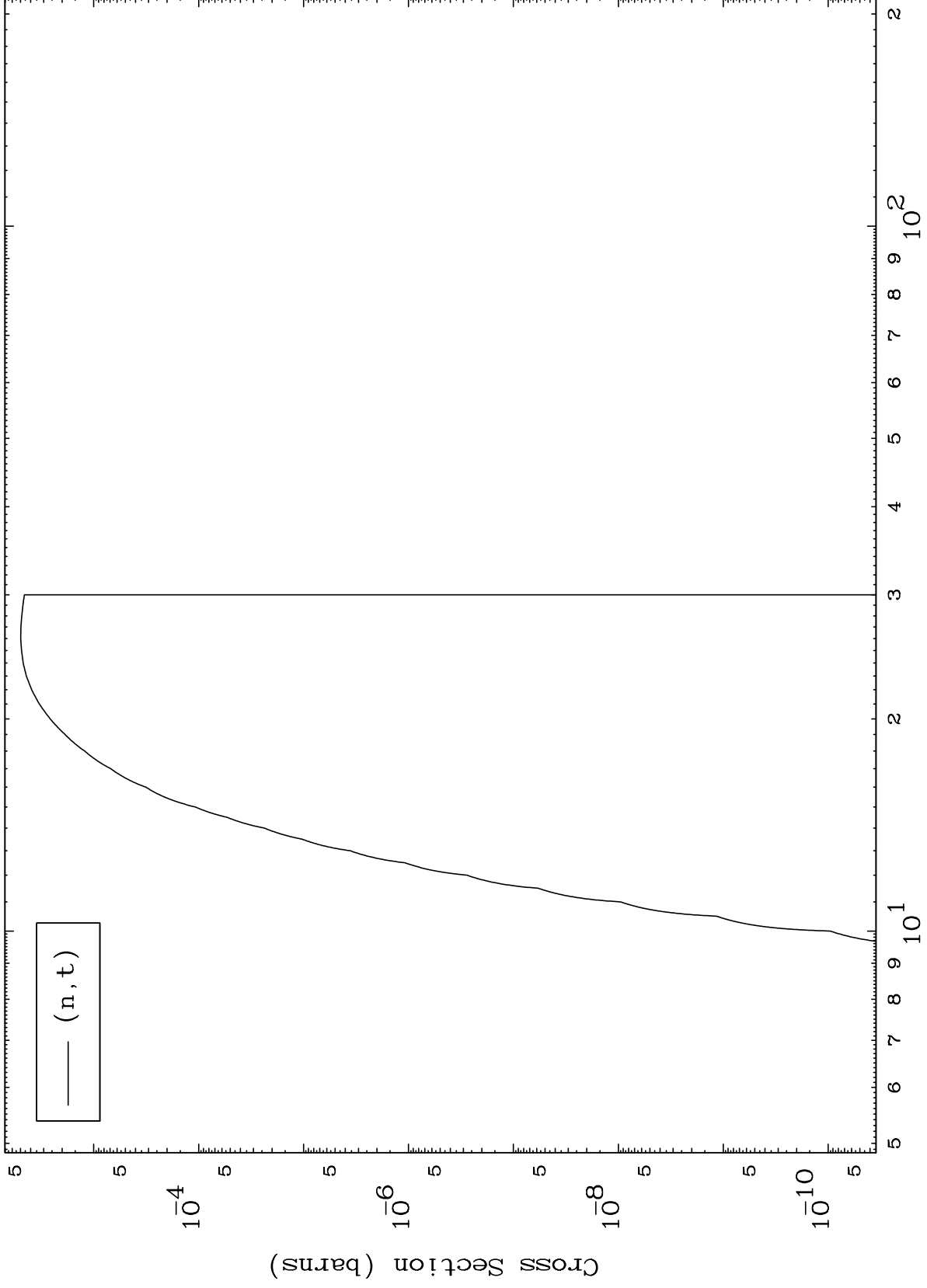
Incident Energy (MeV)

72-Hf-182m

MAT 7250

(n,t) Levels
293 Kelvin Cross Sections

72-Hf-182m



12

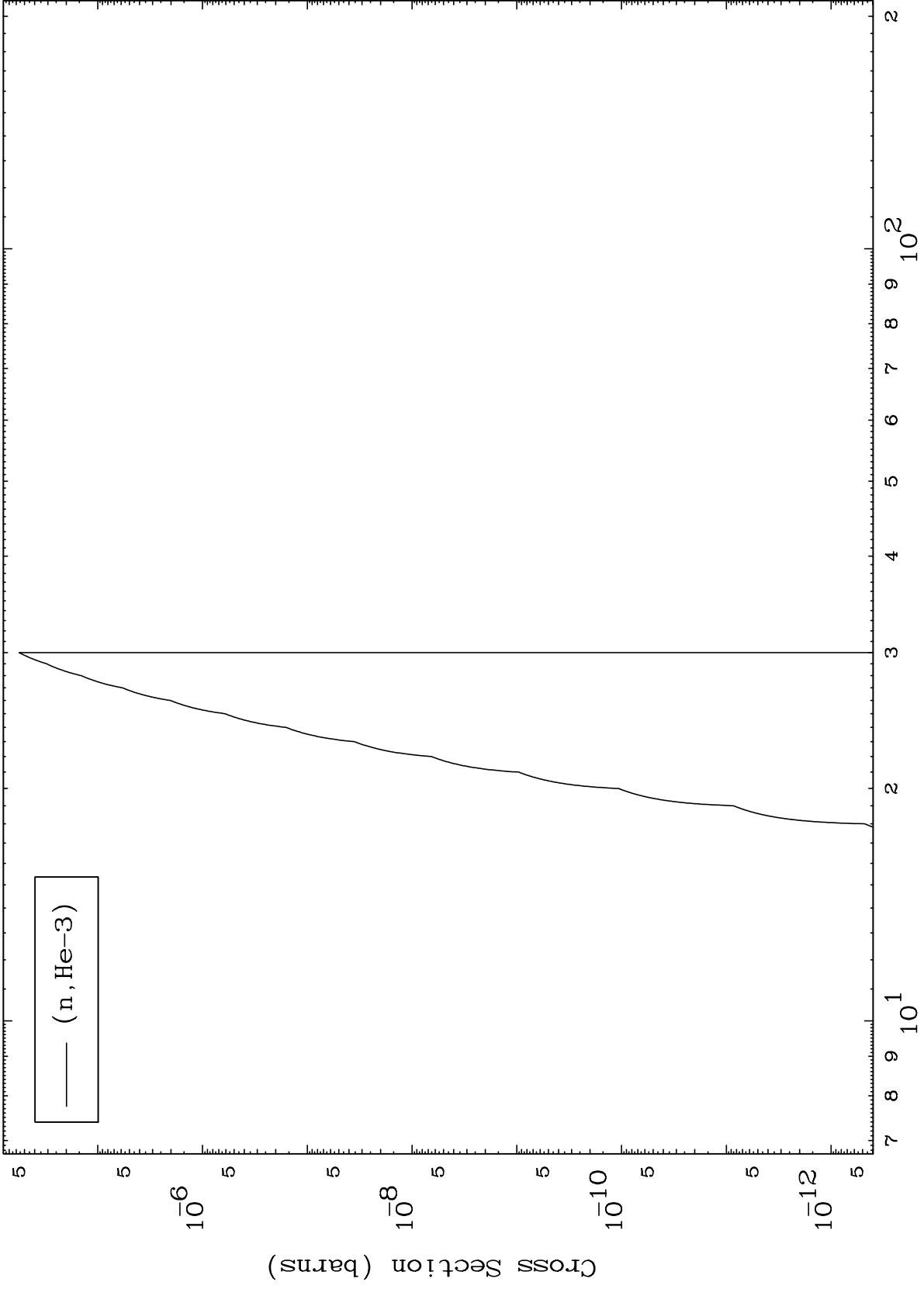
Incident Energy (MeV)

72-Hf-182m

MAT 7250

(n,He3) Levels
293 Kelvin Cross Sections

72-Hf-182m



13

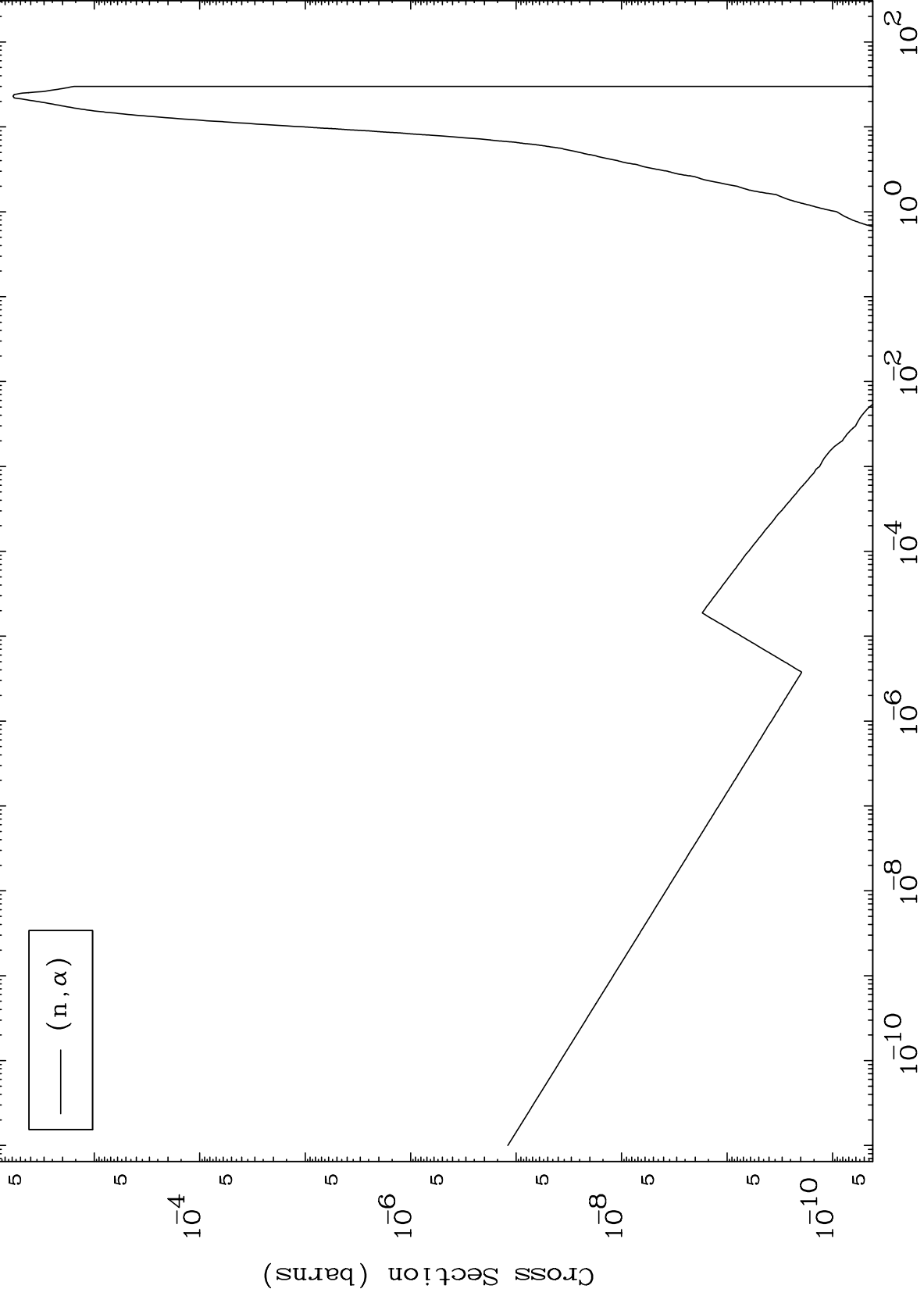
Incident Energy (MeV)

72-Hf-182m

MAT 7250

(n, α) Levels
293 Kelvin Cross Sections

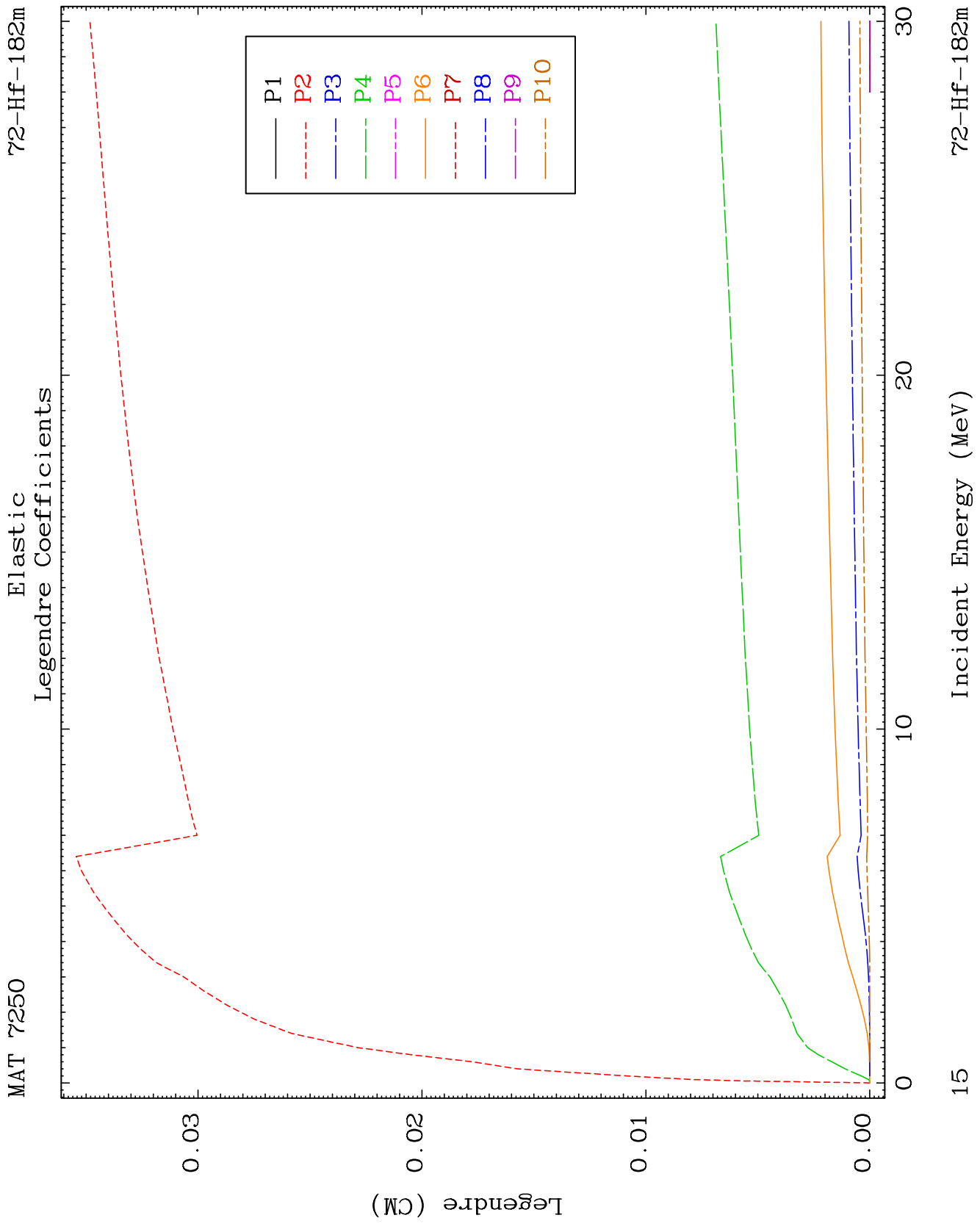
72-Hf-182m

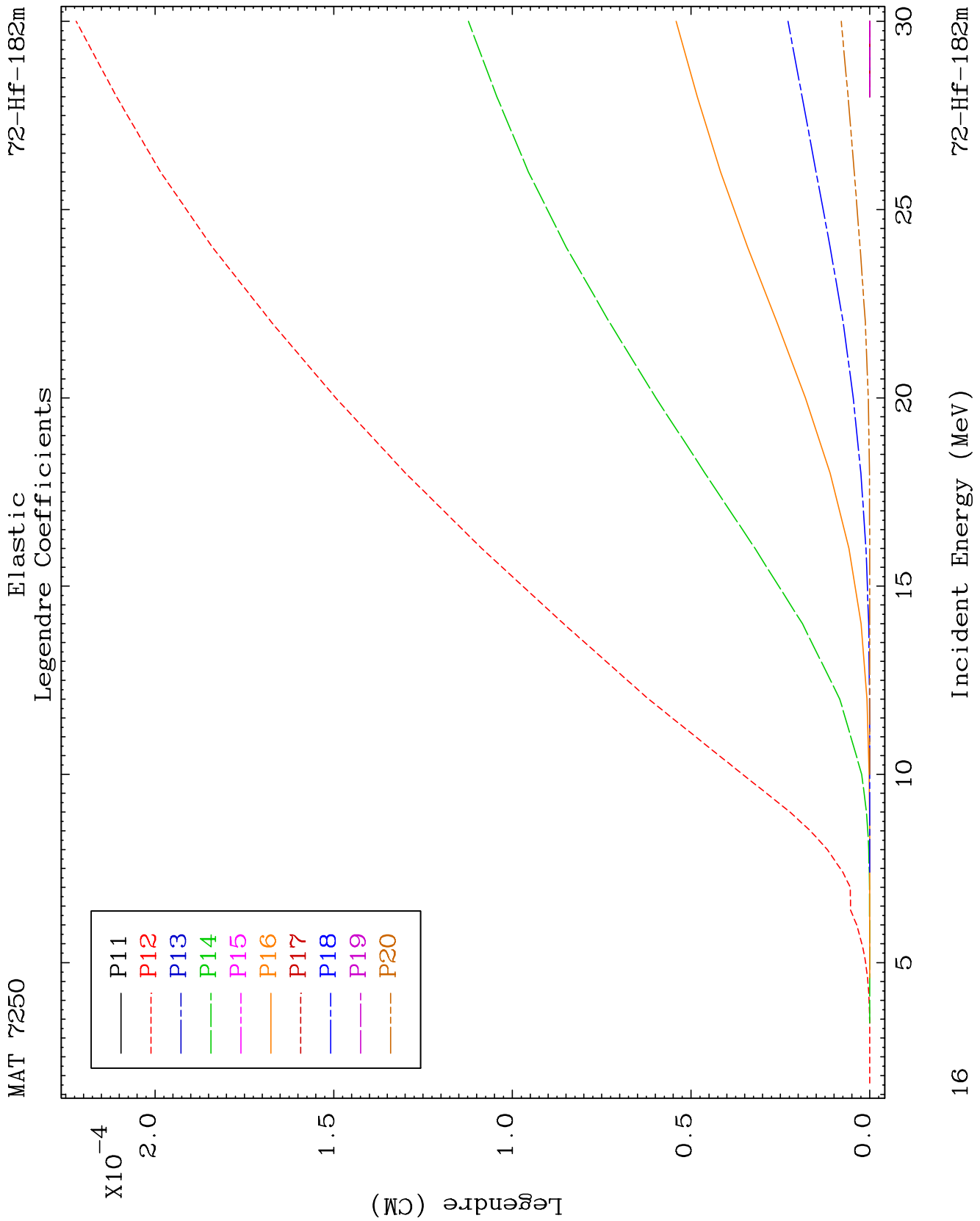


(n, α)

72-Hf-182m

Incident Energy (MeV)

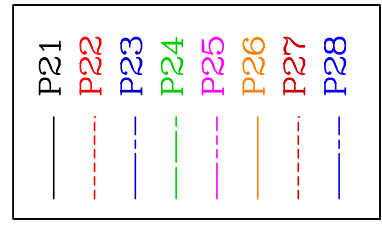




MAT 7250

Elastic Legendre Coefficients

72-Hf-182m



$\times 10^{-6}$

1.2

0.8

0.4

0.0

Legendre (CM)

15

20

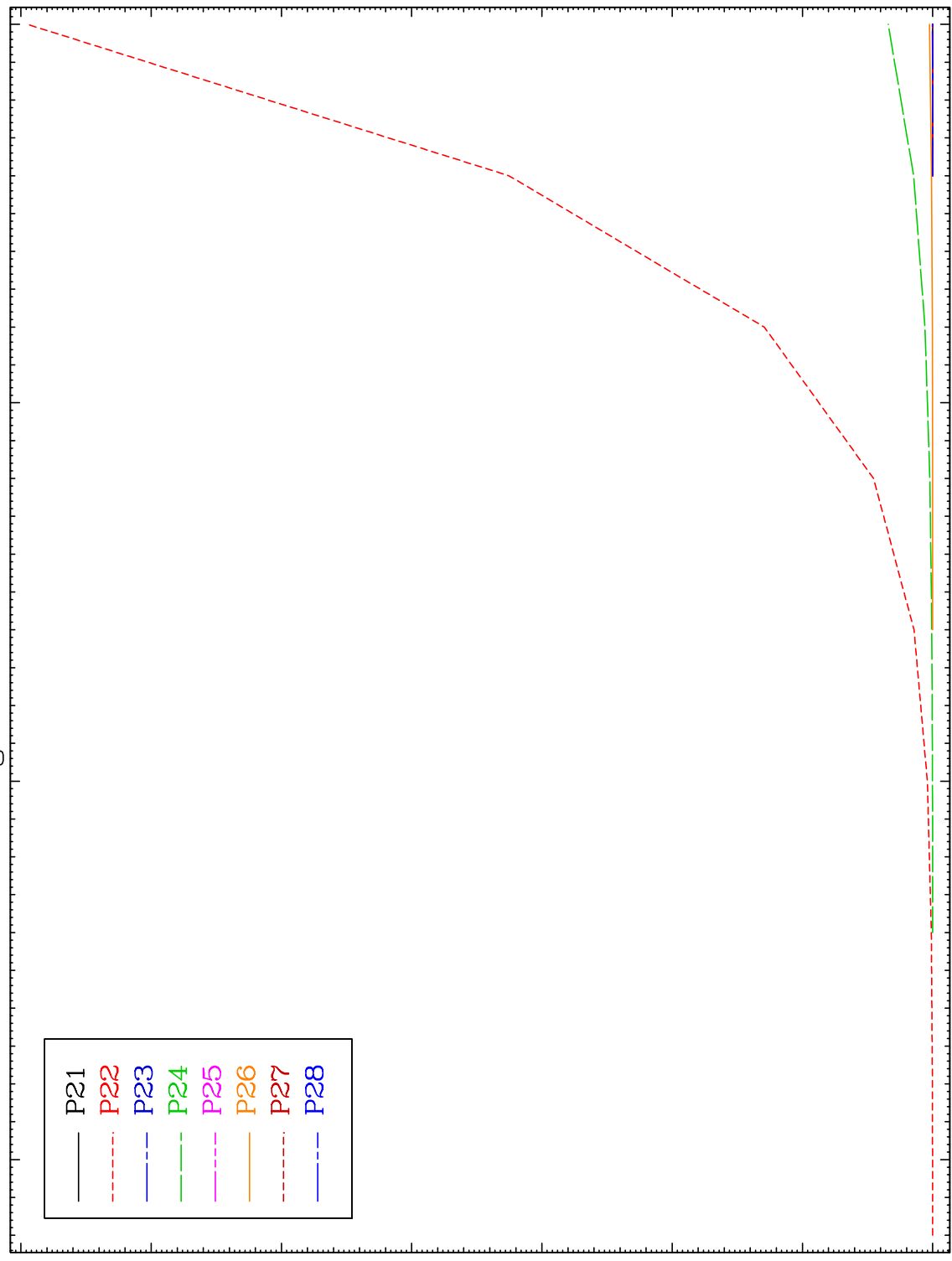
25

30

17

Incident Energy (MeV)

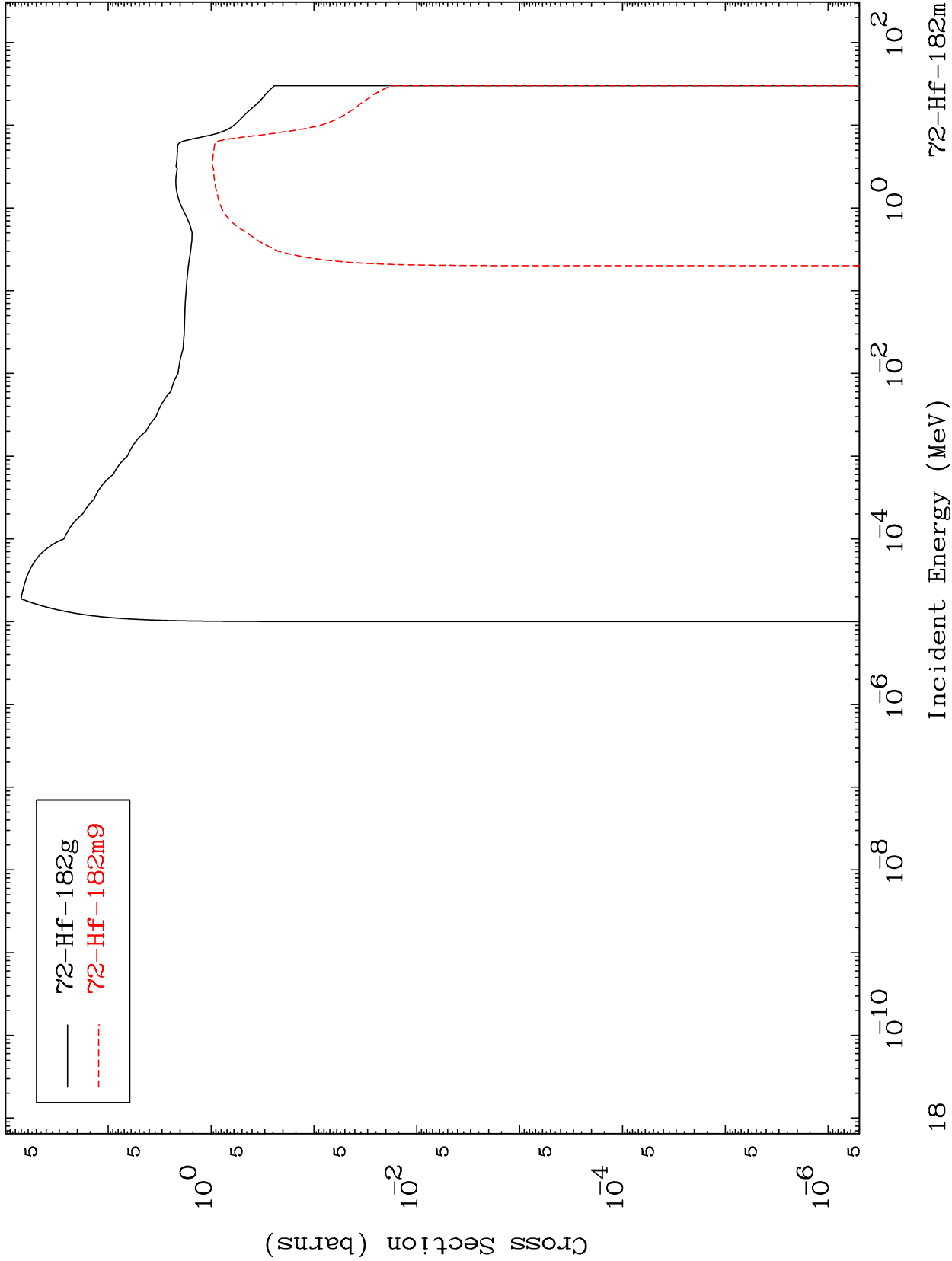
72-Hf-182m



MAT 7250

Radionuclide Production Cross Section

⁷²Hf-182m



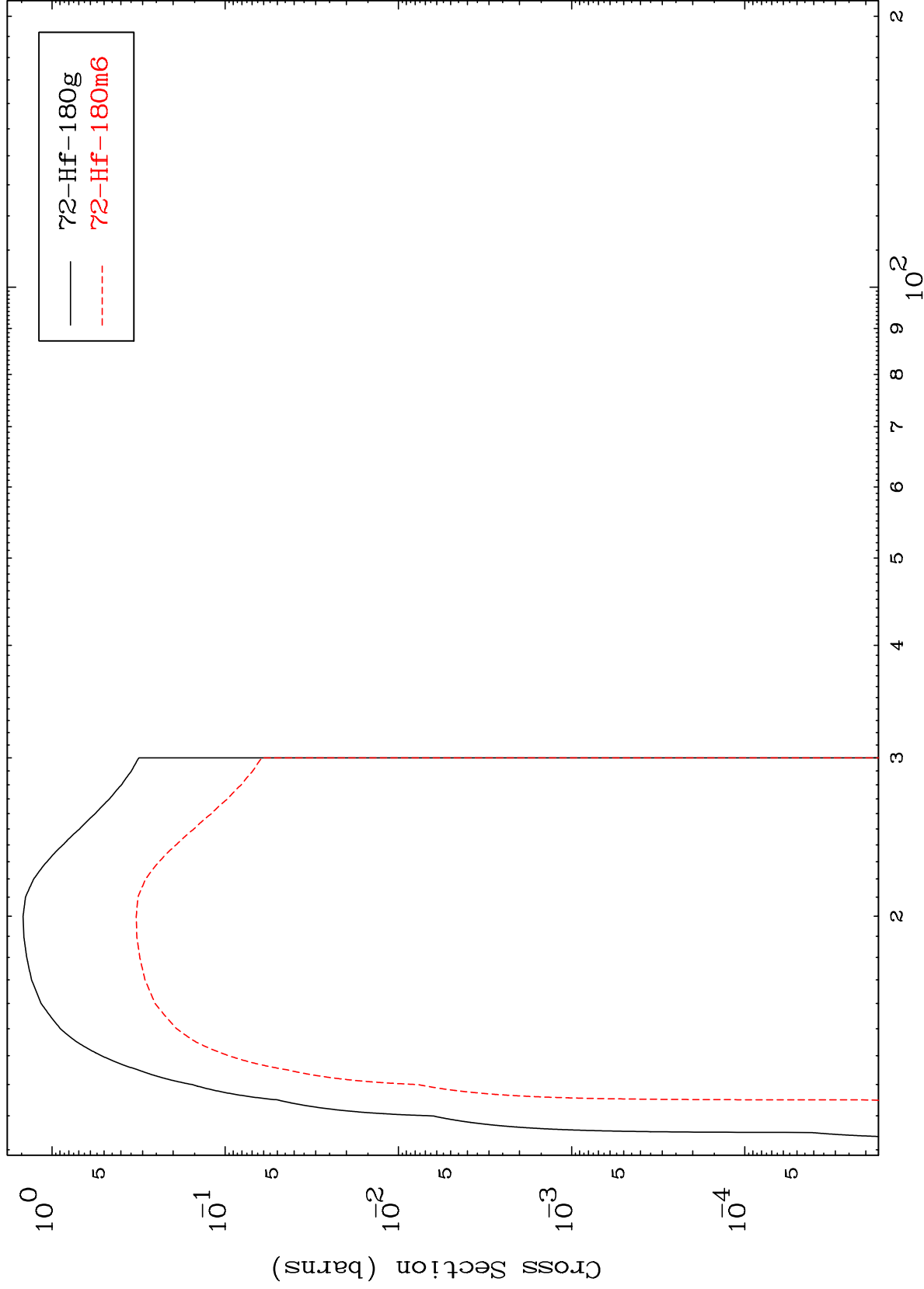
— 72-Hf-182g
- - - 72-Hf-182m9

MAT 7250

(n,3n)

72-Hf-182m

Radionuclide Production Cross Section



19

Incident Energy (MeV)

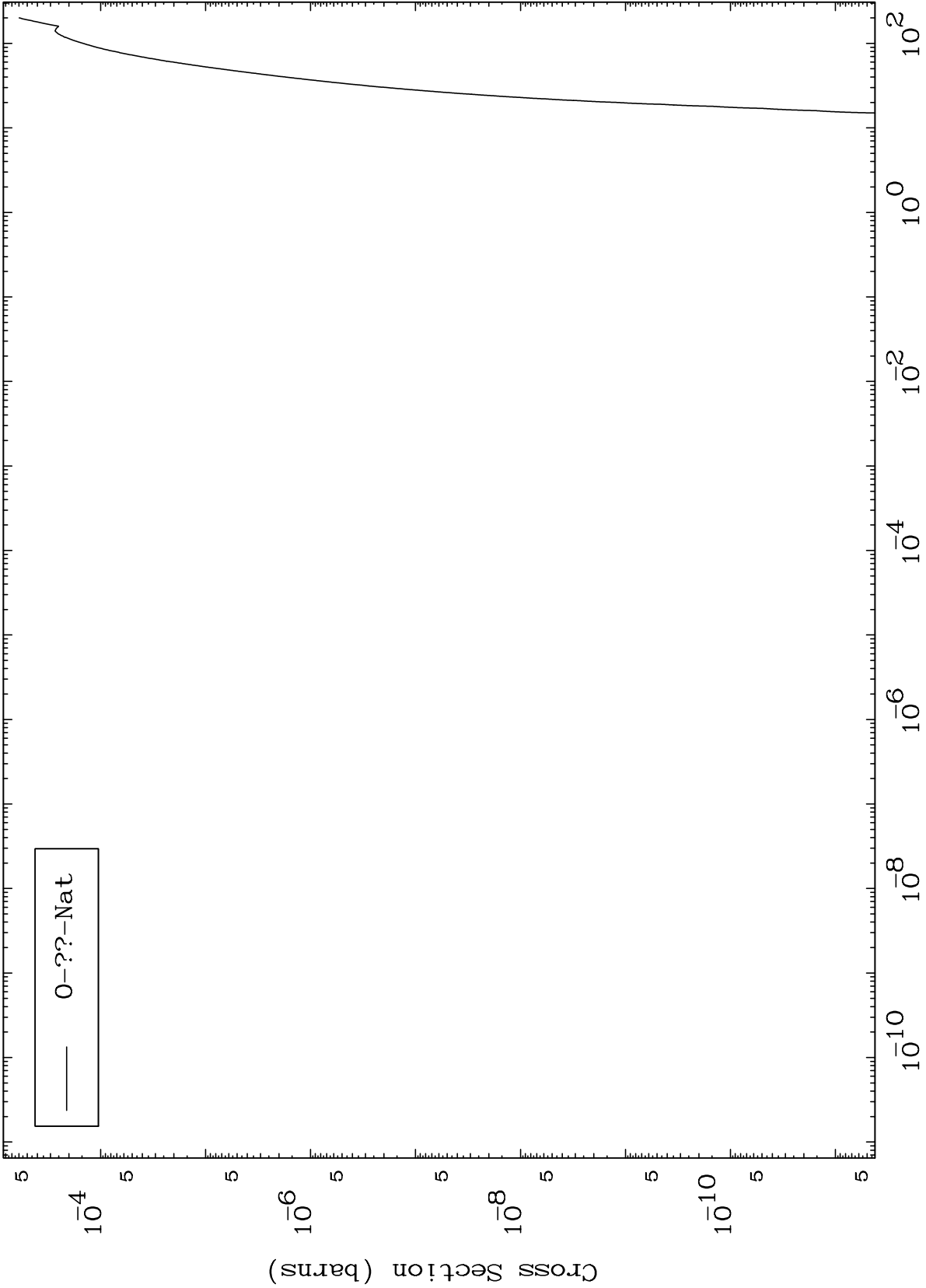
72-Hf-182m

MAT 7250

Fission

⁷²Hf-182m

Radionuclide Production Cross Section

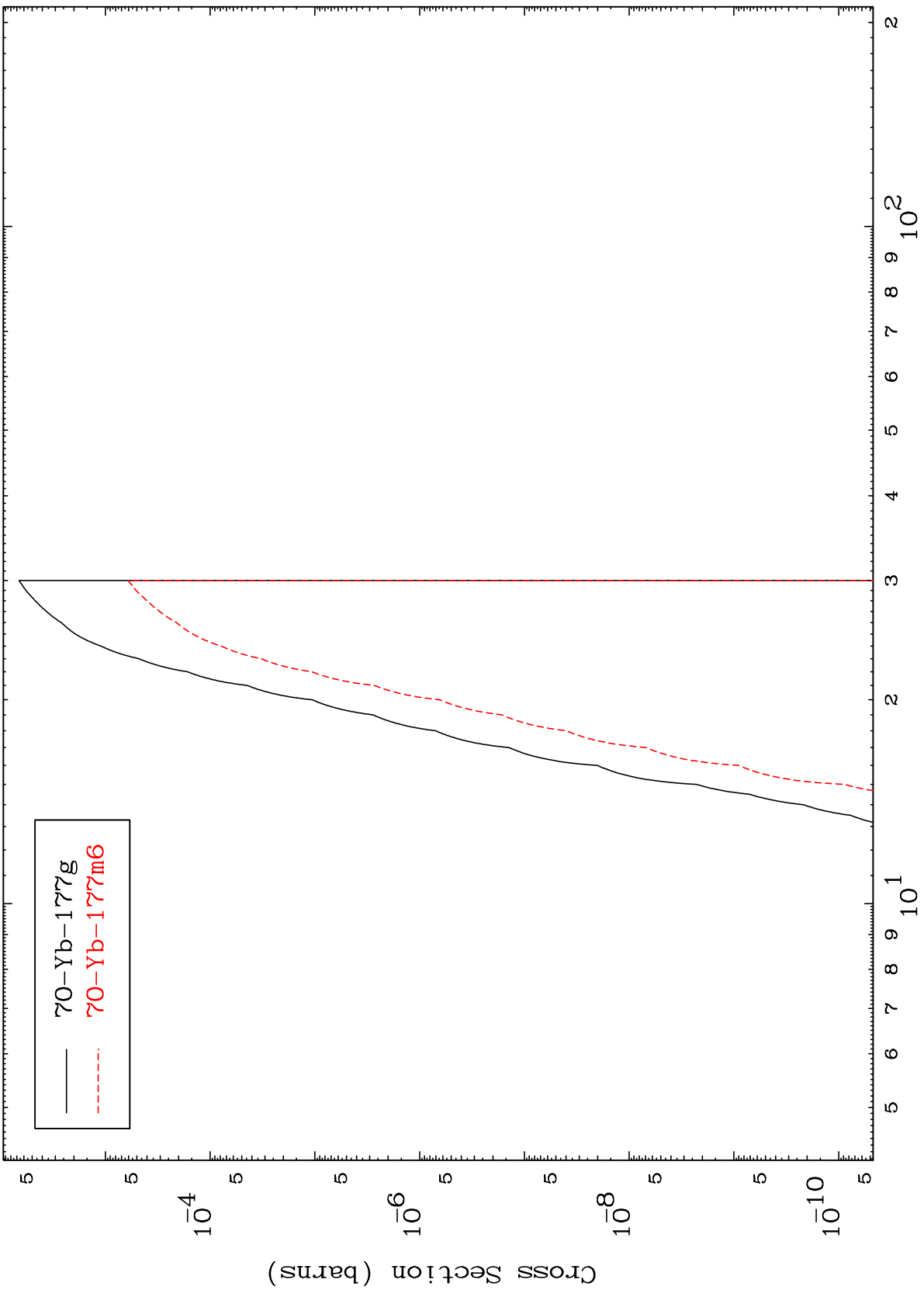


MAT 7250

$(n, 2n)$ α

$^{72}\text{Hf}-182\text{m}$

Radionuclide Production Cross Section

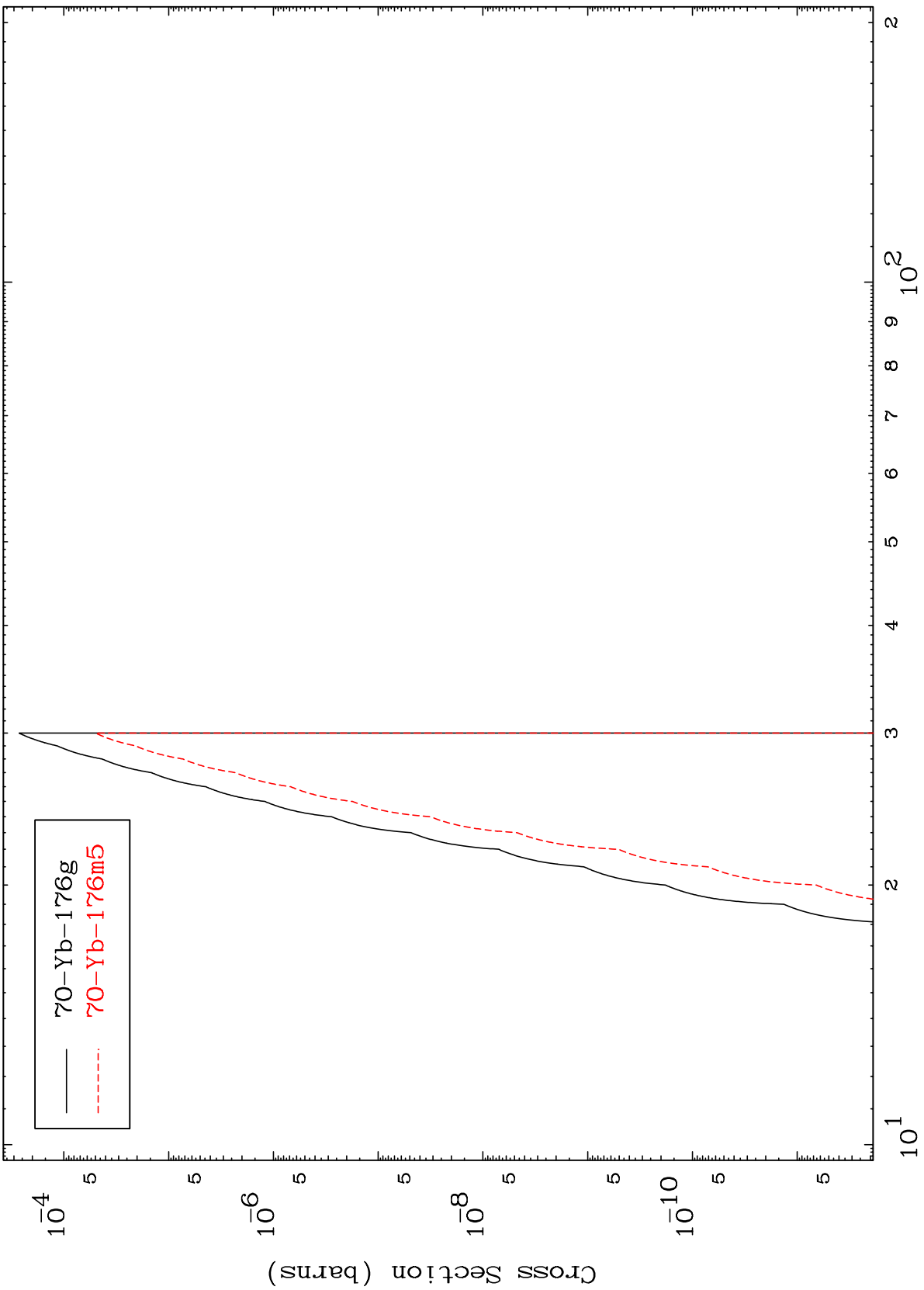


MAT 7250

(n,3n) α

72-Hf-182m

Radionuclide Production Cross Section



70-Yb-176g
70-Yb-176m5

Incident Energy (MeV)

72-Hf-182m

22

