

Program EVALPLOT
(Version 2021-1)

by

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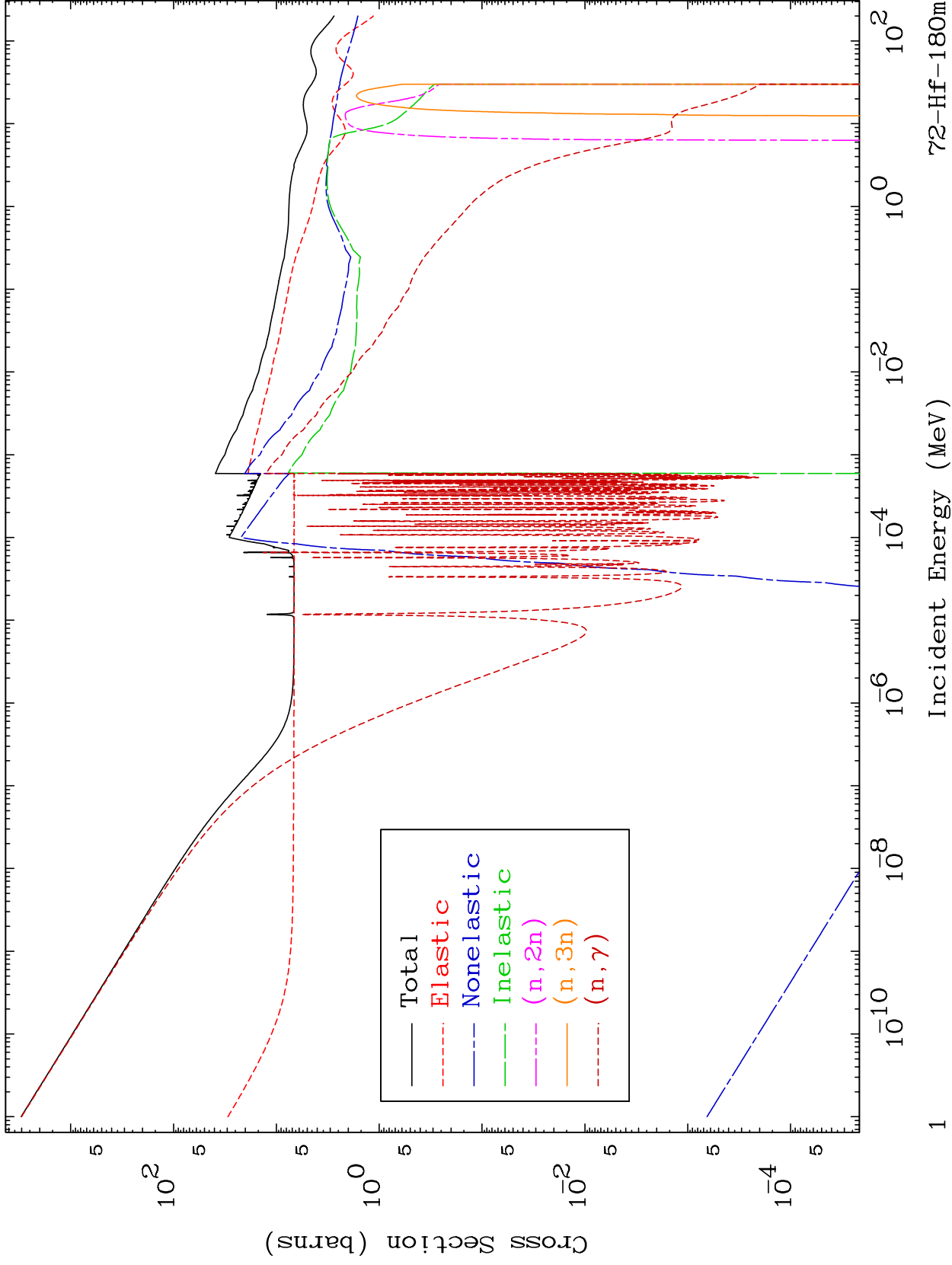
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7244

Neutron Major
293 Kelvin Cross Sections

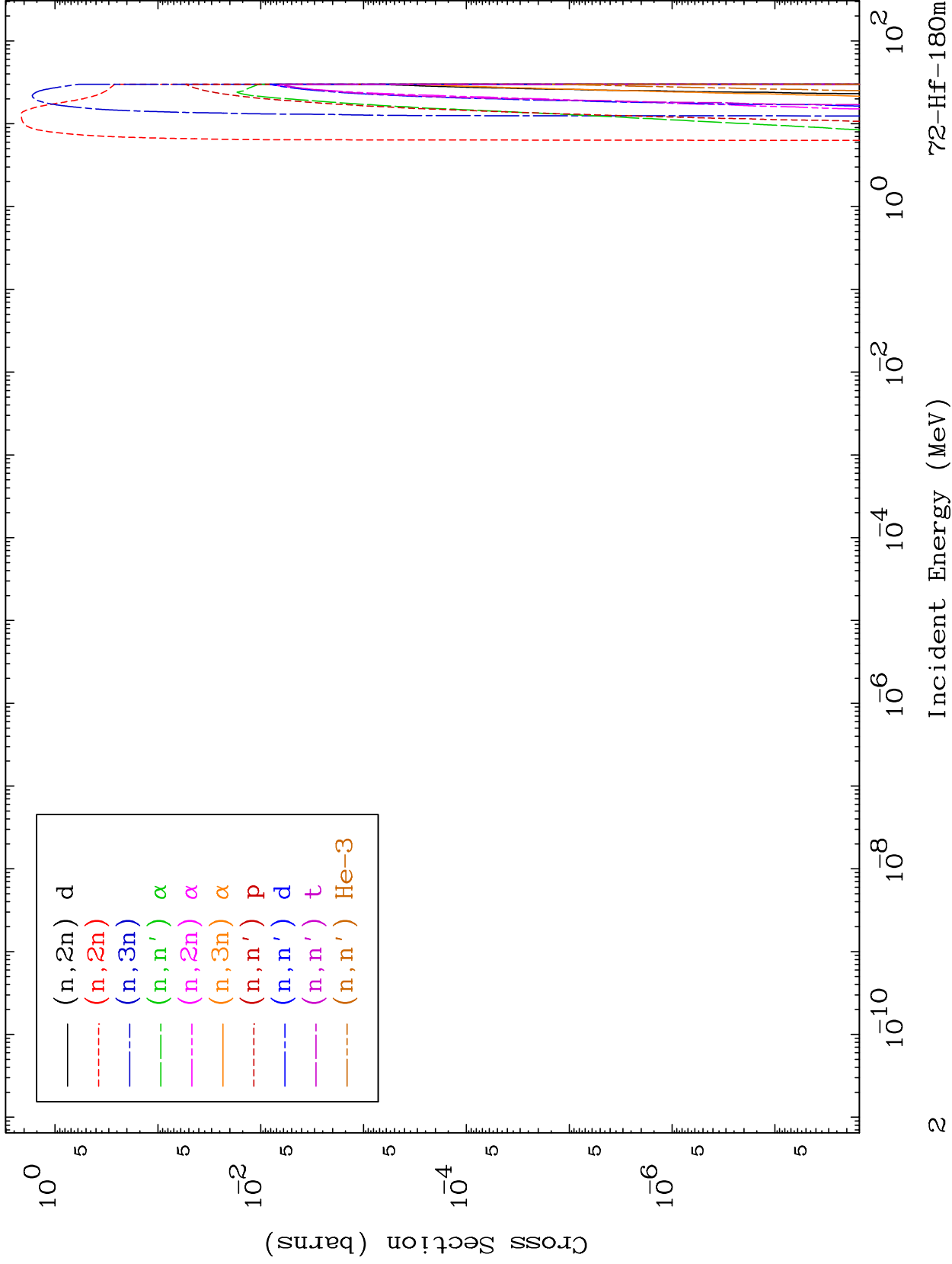
72-Hf-180m



MAT 7244

Neutron Absorption
293 Kelvin Cross Sections

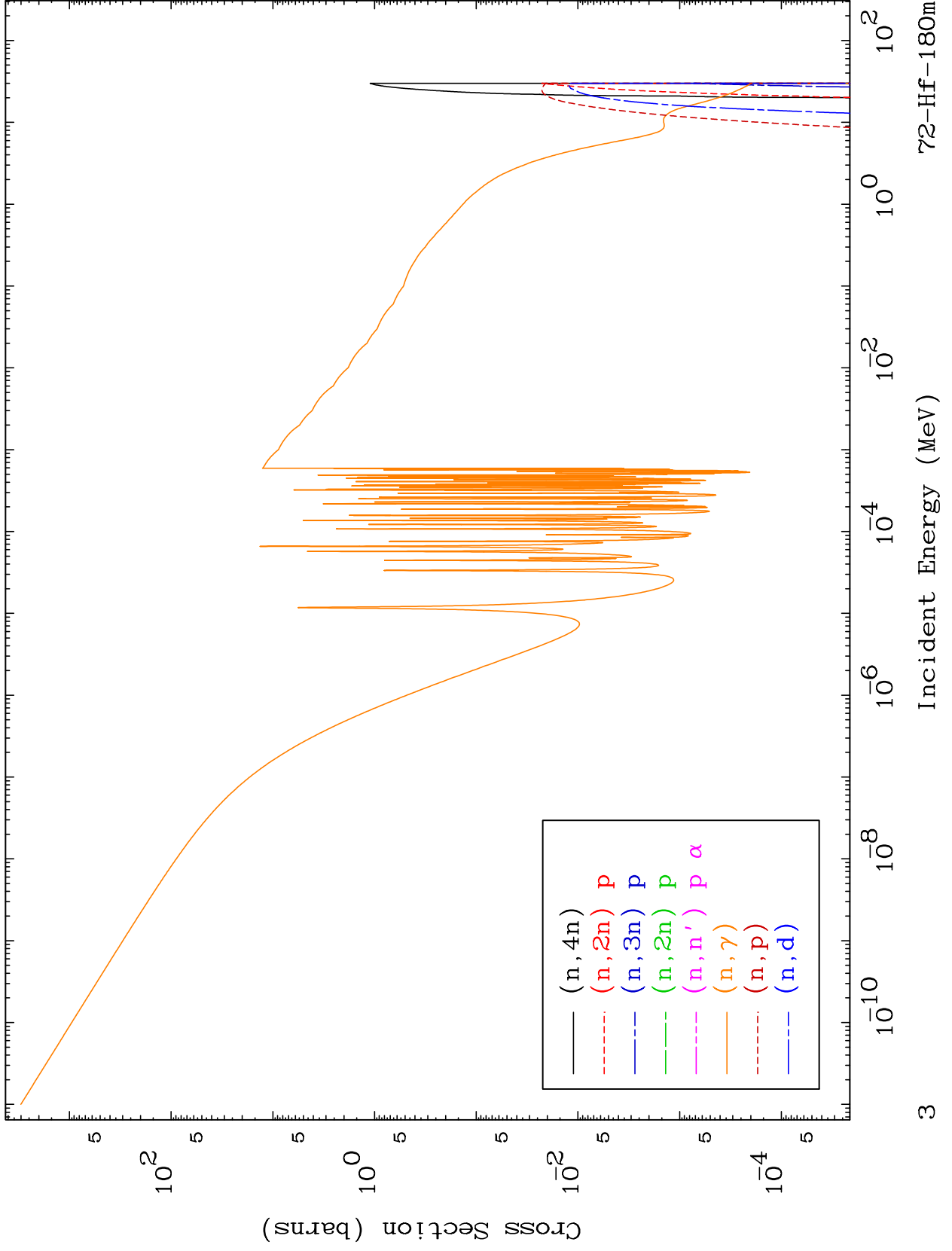
72-Hf-180m



MAT 7244

Neutron Absorption
293 Kelvin Cross Sections

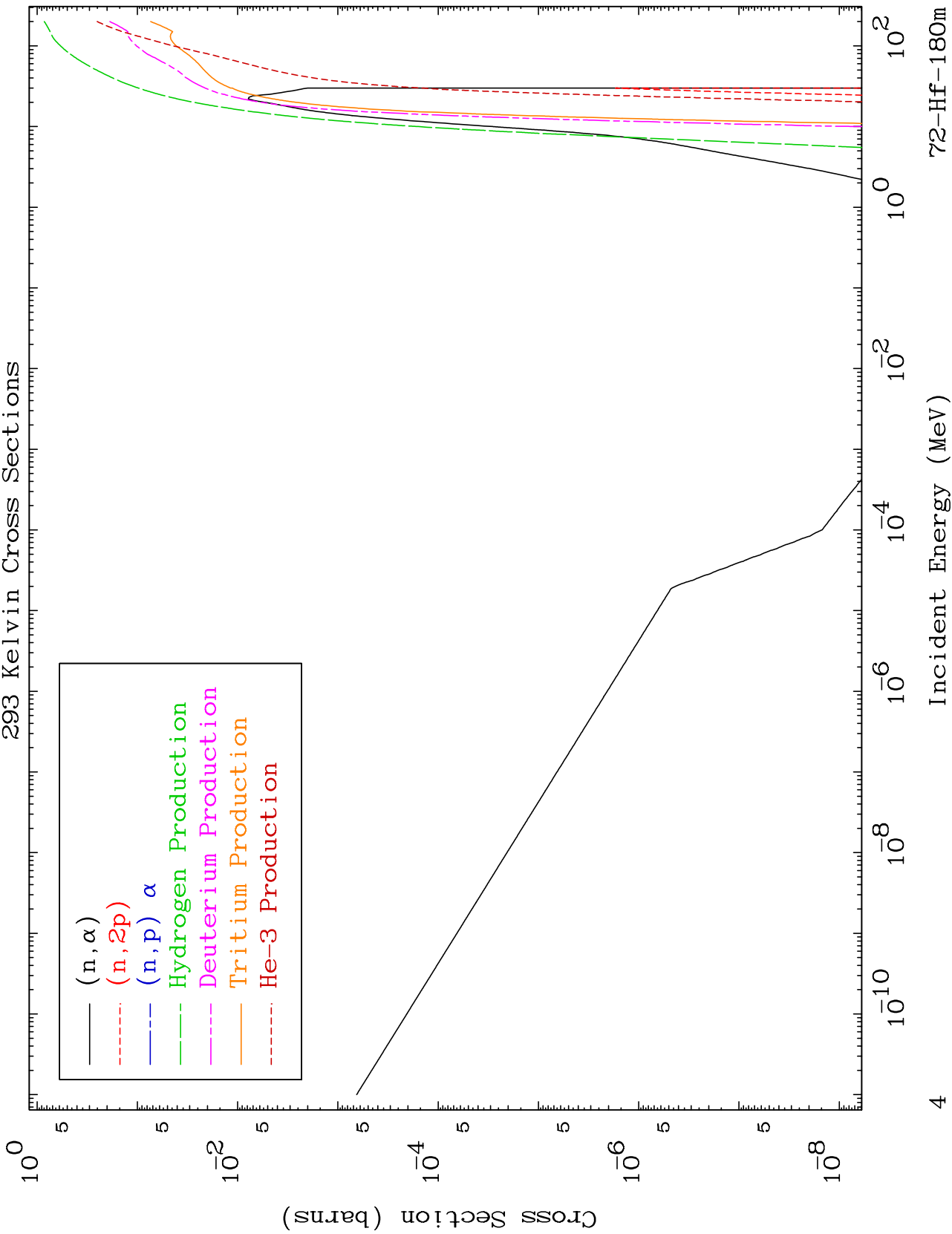
⁷²Hf-180m



MAT 7244

Neutron Absorption
293 Kelvin Cross Sections

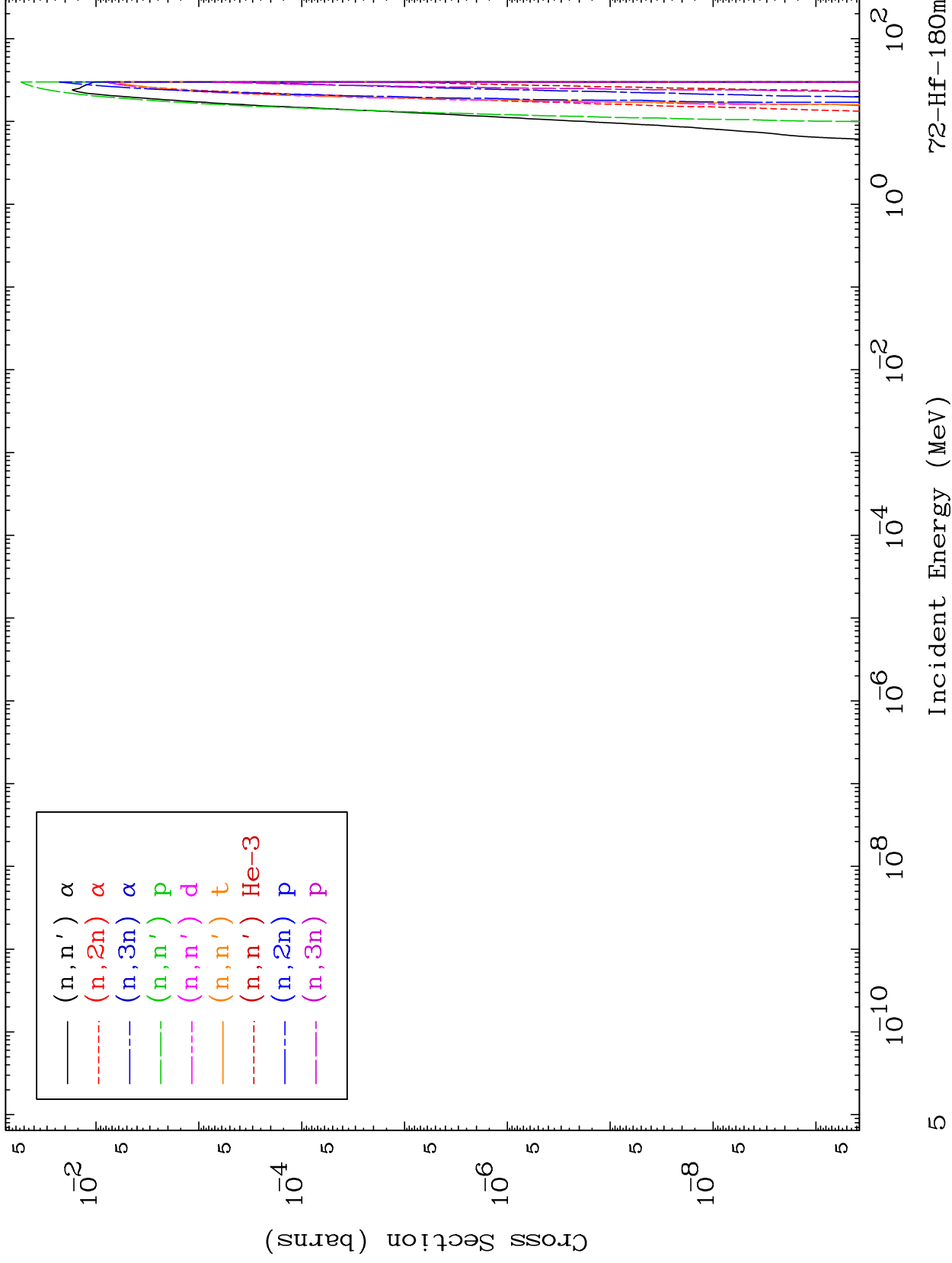
⁷²Hf-180m



MAT 7244

Charged Particle
293 Kelvin Cross Sections

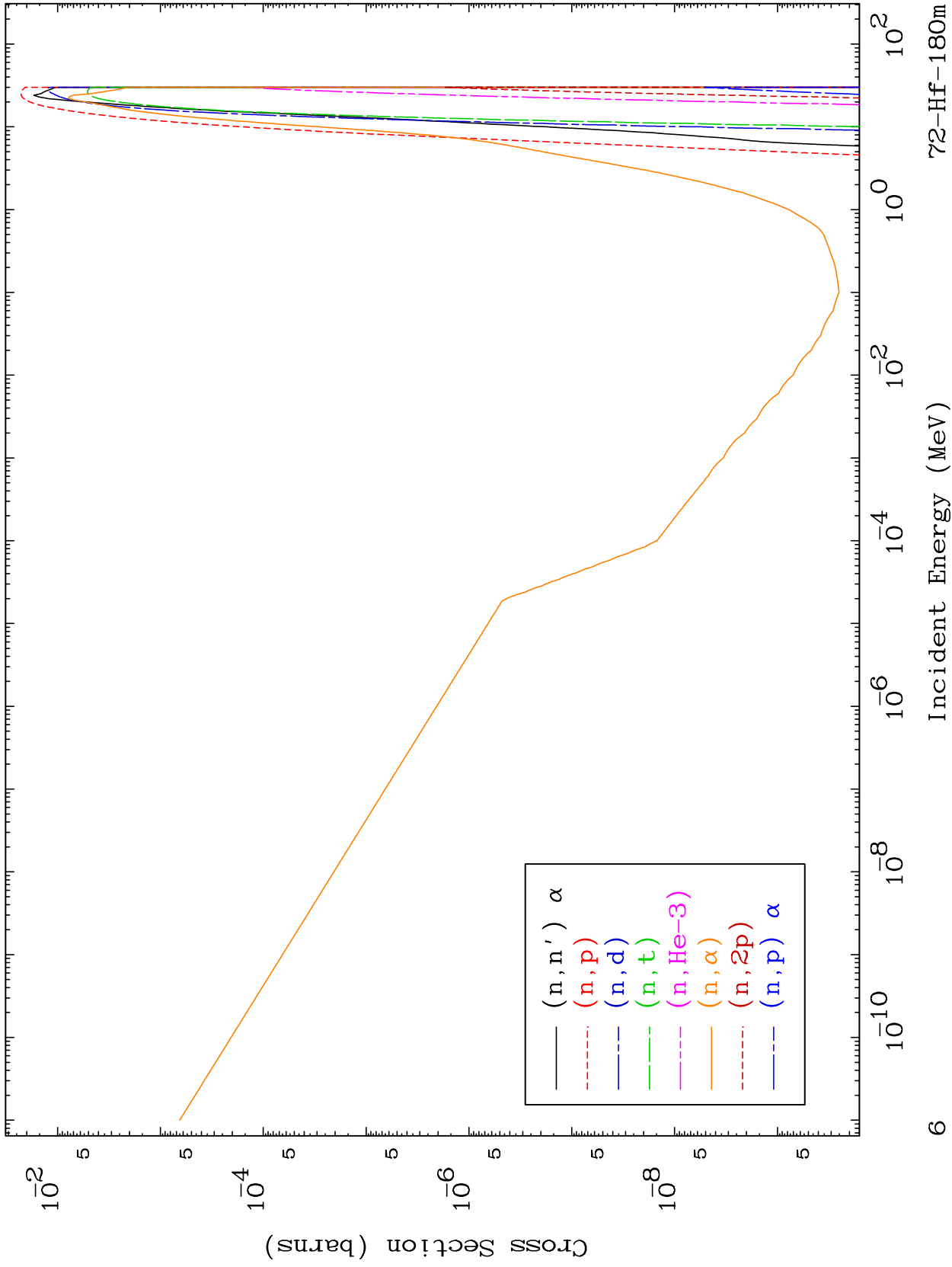
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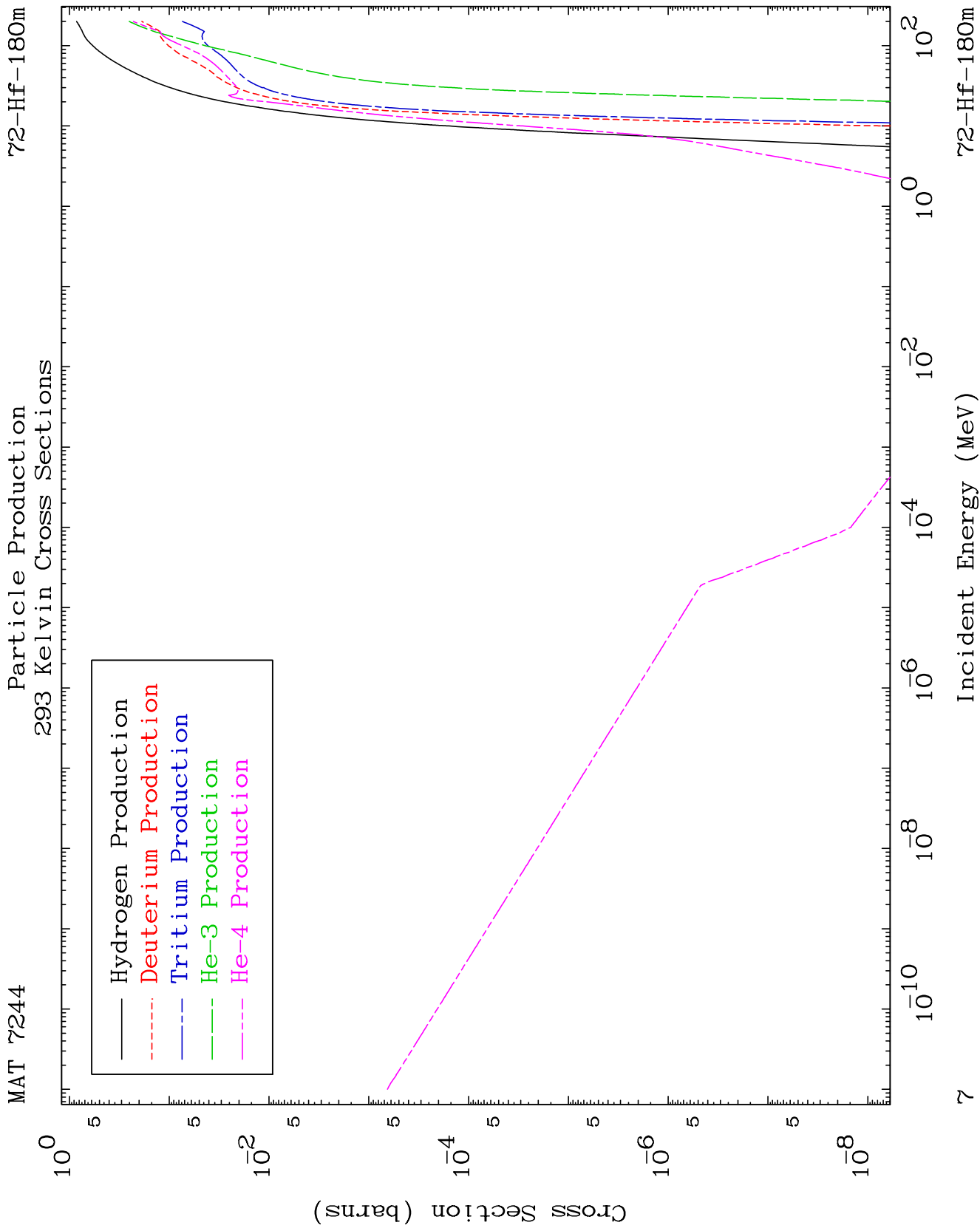


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Charged Particle
293 Kelvin Cross Sections

72-Hf-180m

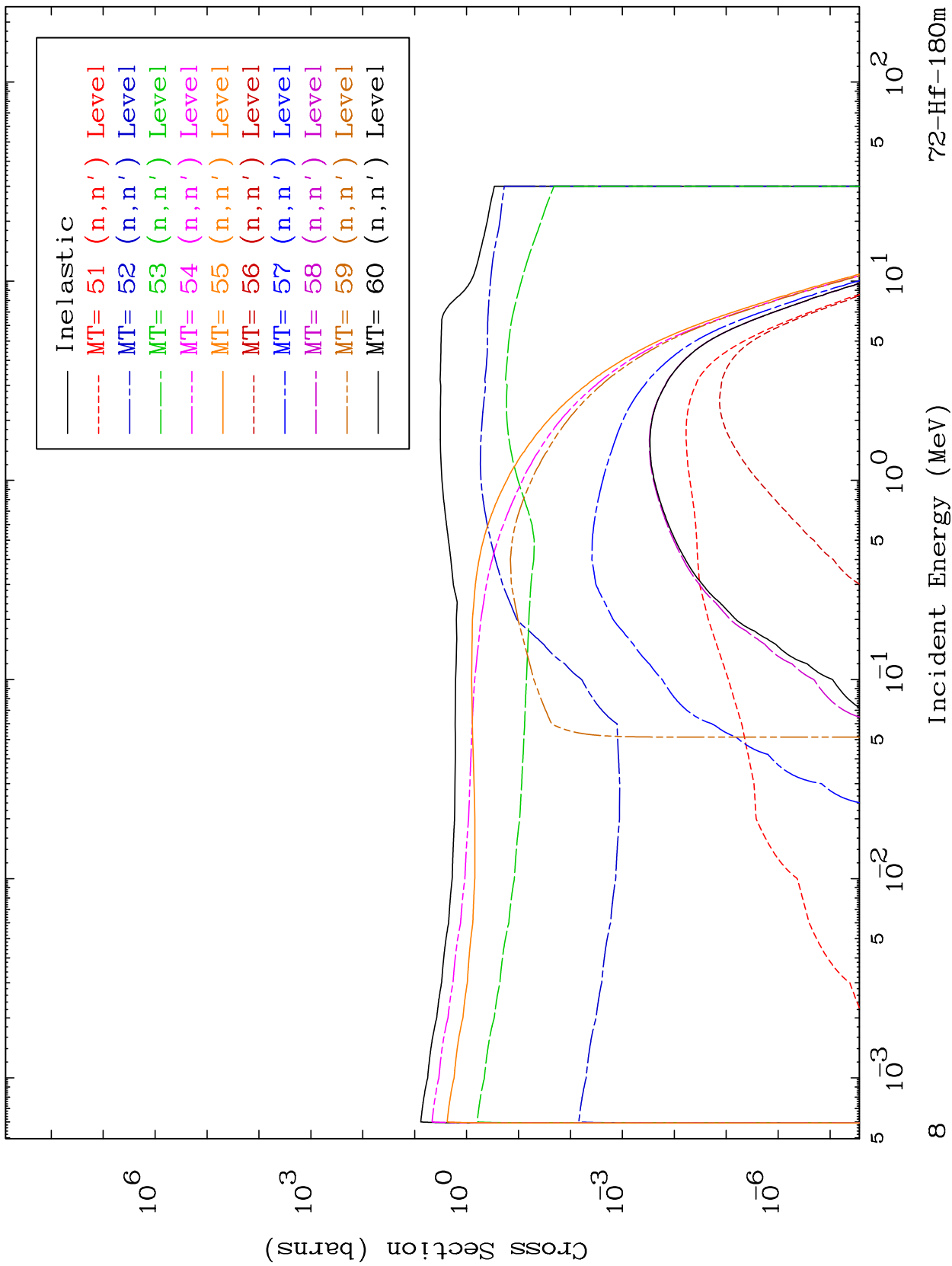




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(n,n') Levels
293 Kelvin Cross Sections

72-Hf-180m



8

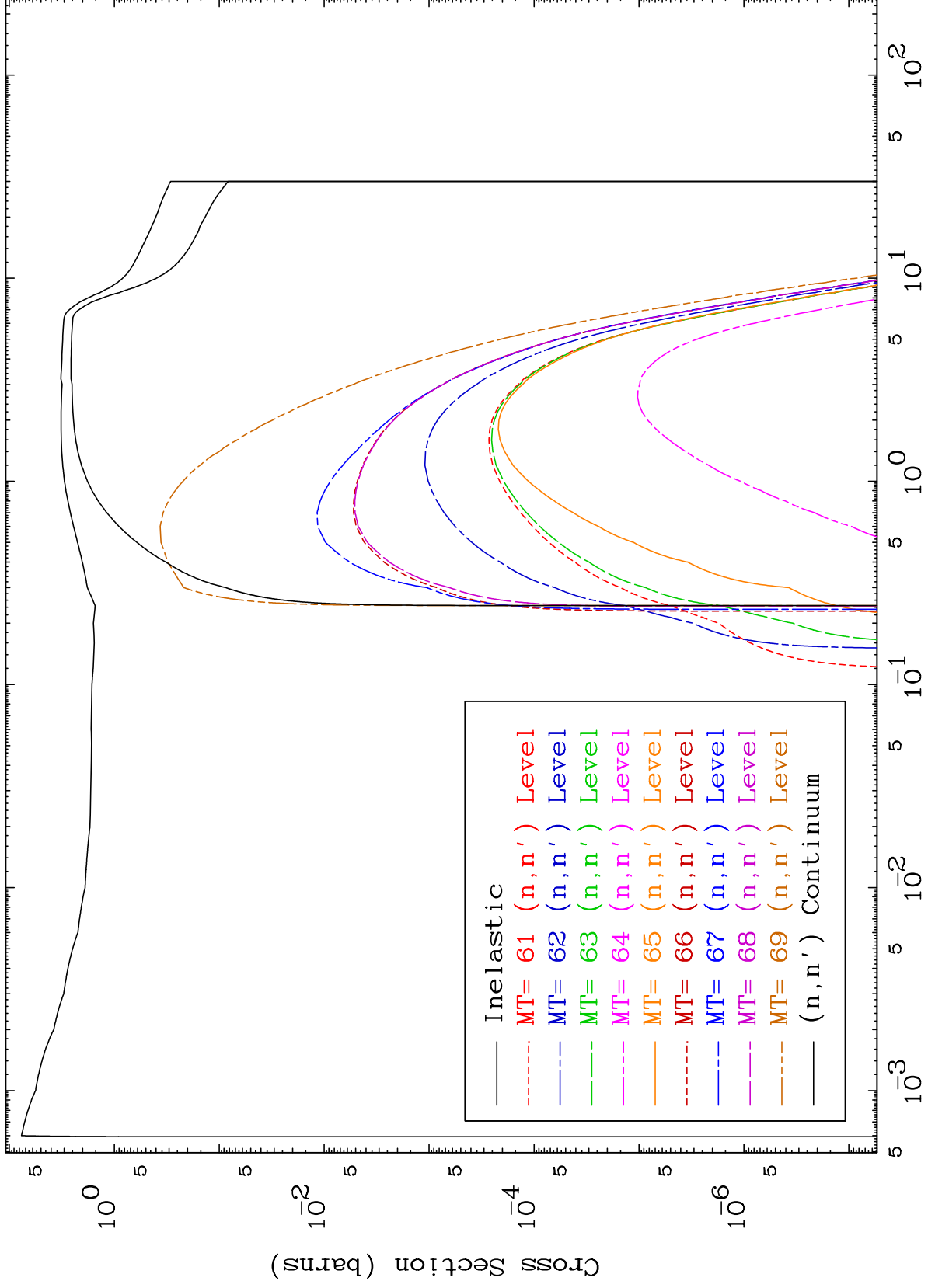
Incident Energy (MeV)

72-Hf-180m

MAT 7244

(n,n') Levels
293 Kelvin Cross Sections

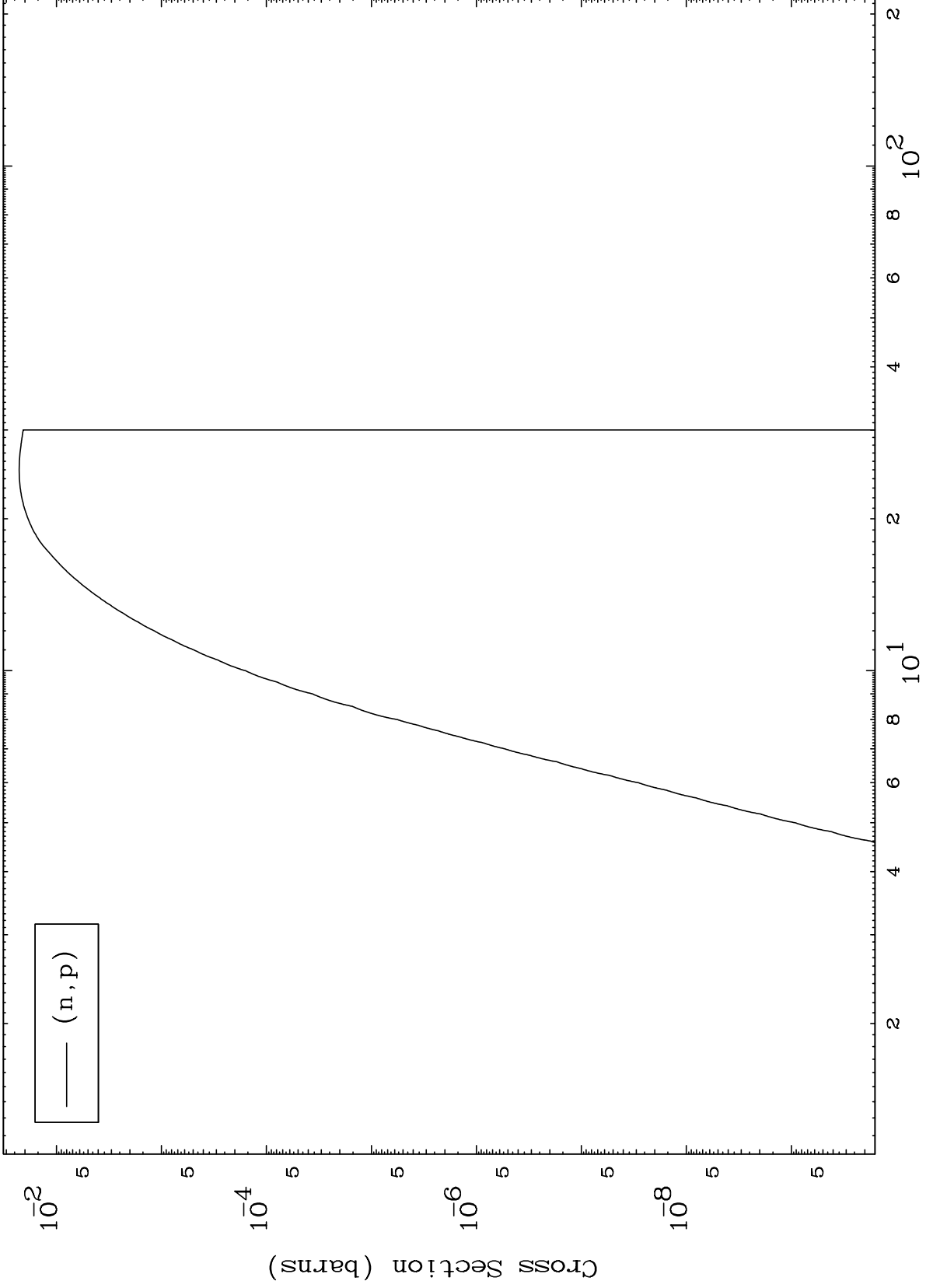
72-Hf-180m



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(n,p) Levels
293 Kelvin Cross Sections

⁷²Hf-180m



10

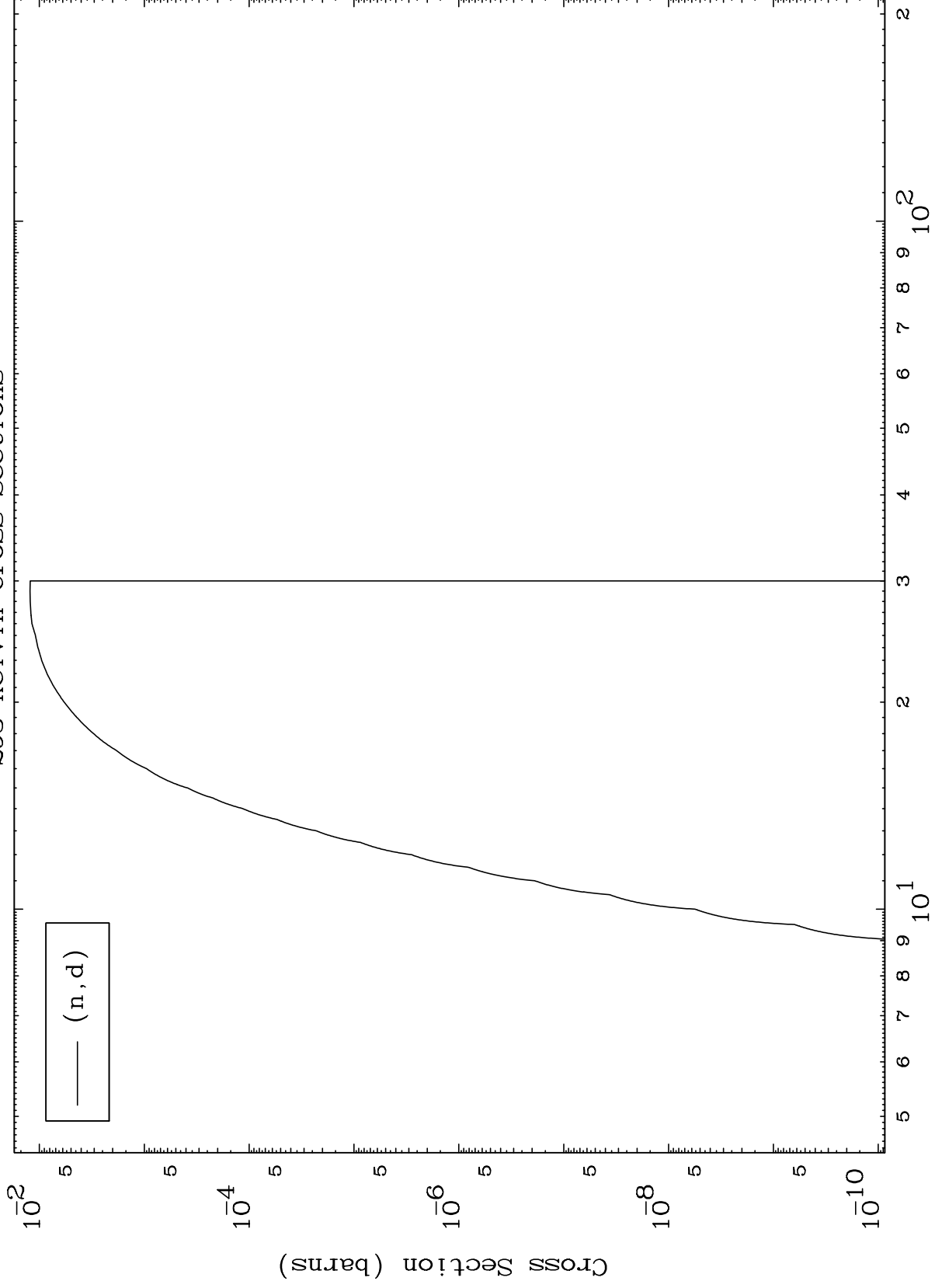
Incident Energy (MeV)

⁷²Hf-180m

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(n,d) Levels
293 Kelvin Cross Sections

⁷²Hf-180m



11

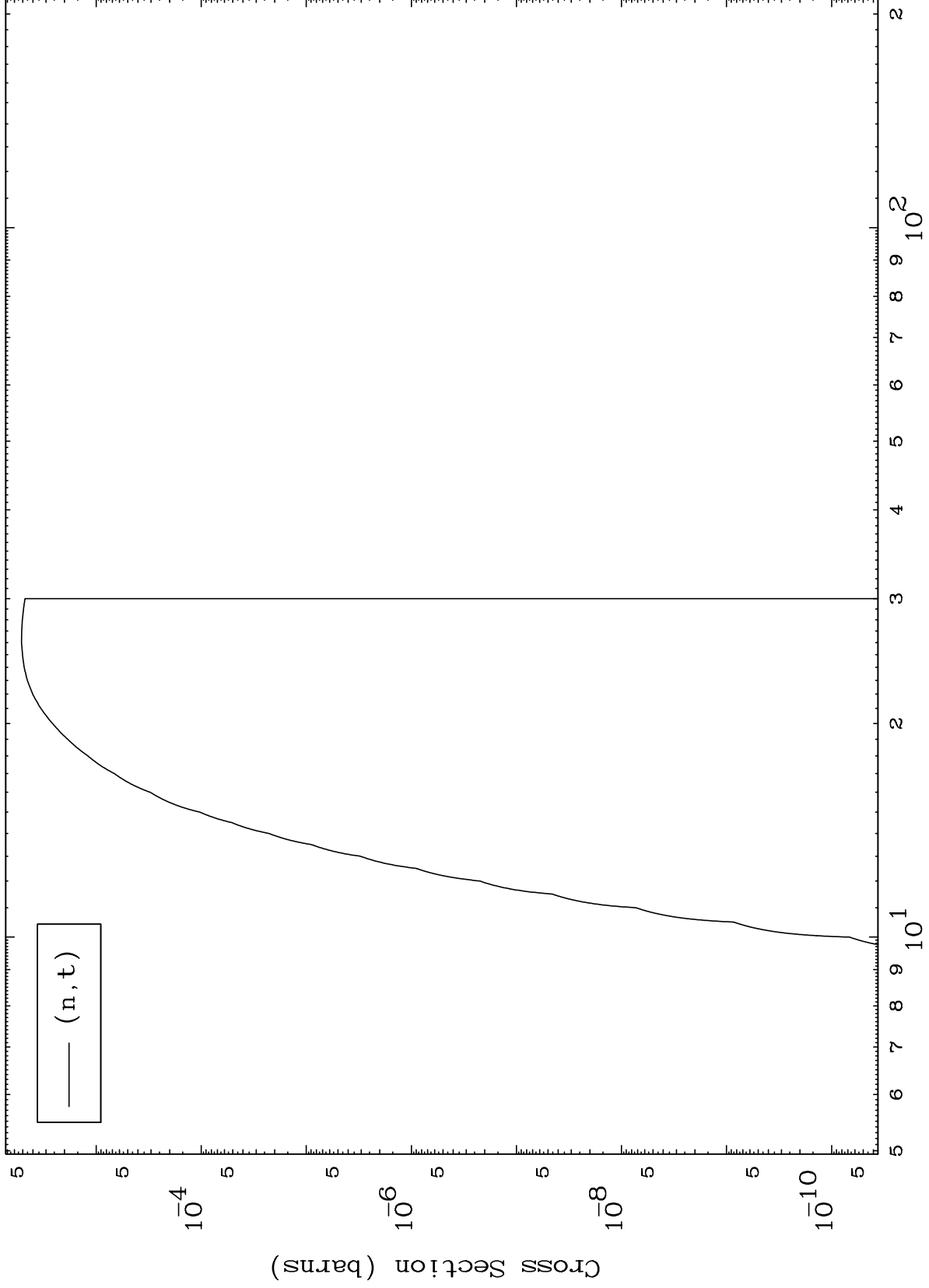
Incident Energy (MeV)

⁷²Hf-180m

MAT 7244

(n,t) Levels
293 Kelvin Cross Sections

72-Hf-180m



12

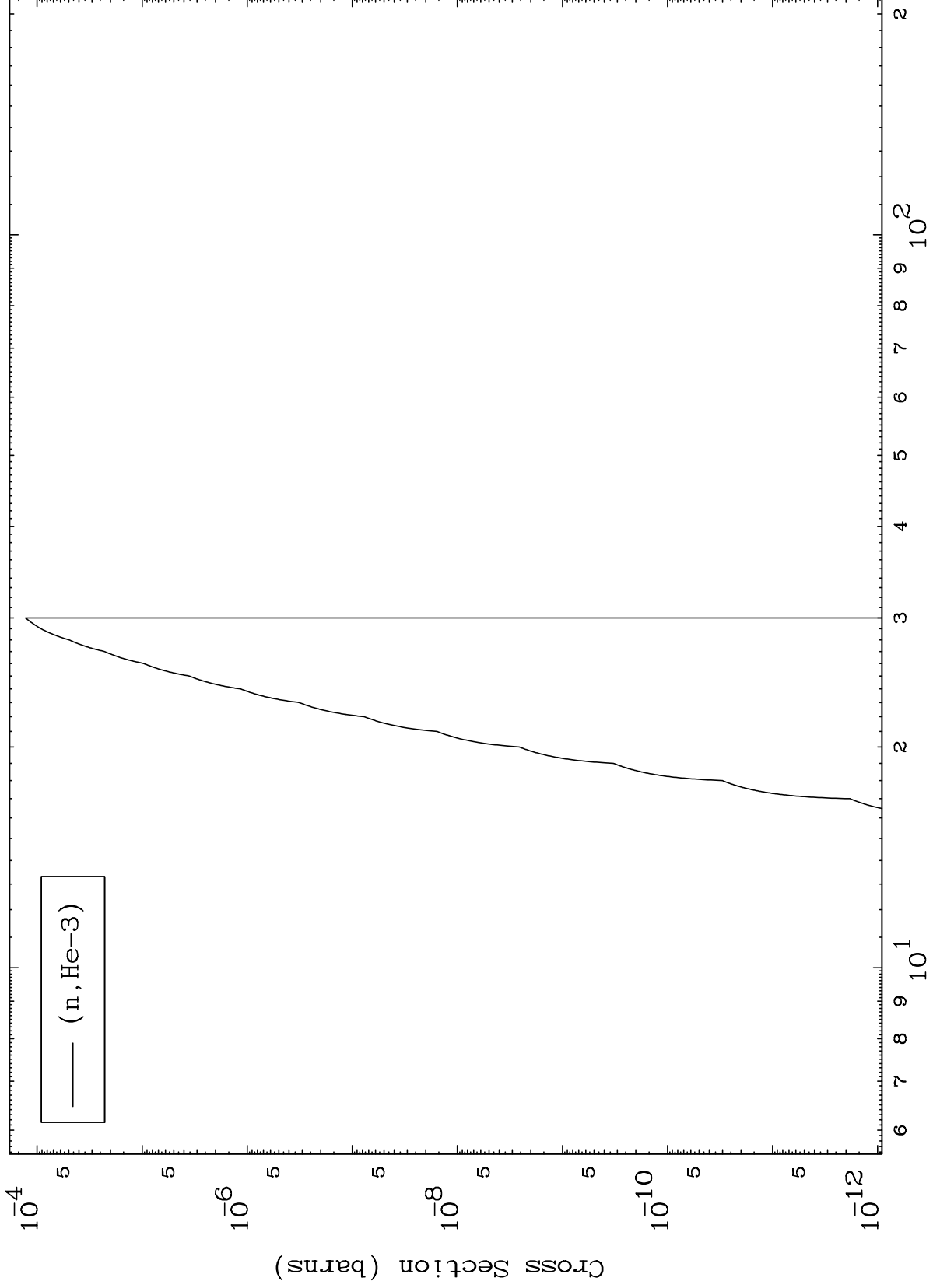
Incident Energy (MeV)

72-Hf-180m

MAT 7244

(n,He3) Levels
293 Kelvin Cross Sections

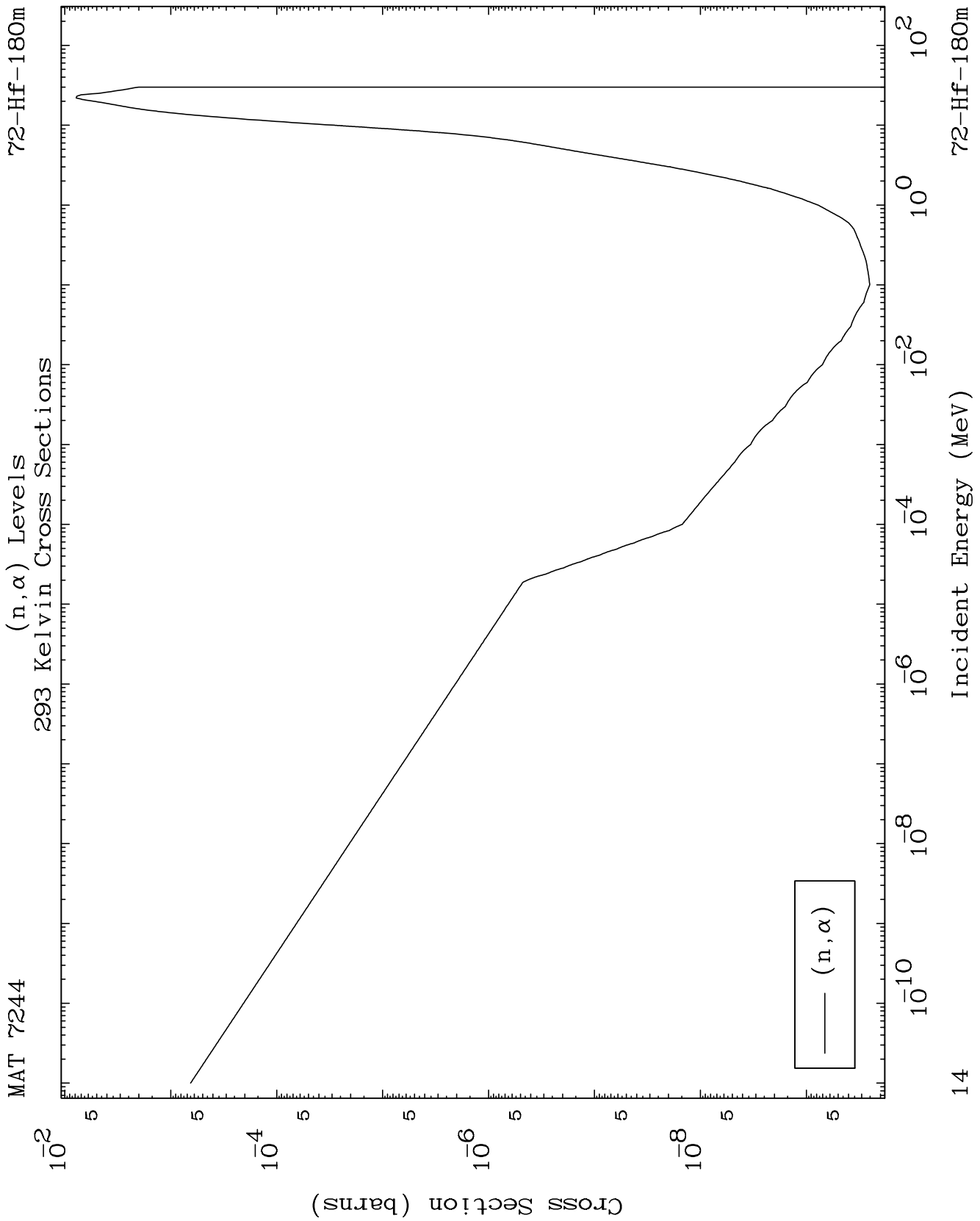
72-Hf-180m



13

Incident Energy (MeV)

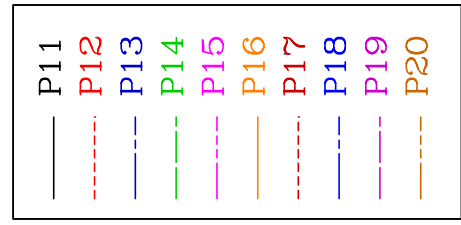
72-Hf-180m



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Elastic Legendre Coefficients

⁷²Hf-180m



$\times 10^{-4}$
2.0
1.5

Legendre (CM)

1.0

0.5

0.0

5

10

15

20

25

30

16

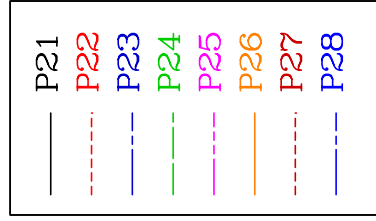
Incident Energy (MeV)

⁷²Hf-180m

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Elastic Legendre Coefficients

⁷²Hf-180m



$\times 10^{-6}$
1.2
1.0
0.8
0.6
0.4
0.2
0.0

Legendre (CM)



17

Incident Energy (MeV)

⁷²Hf-180m

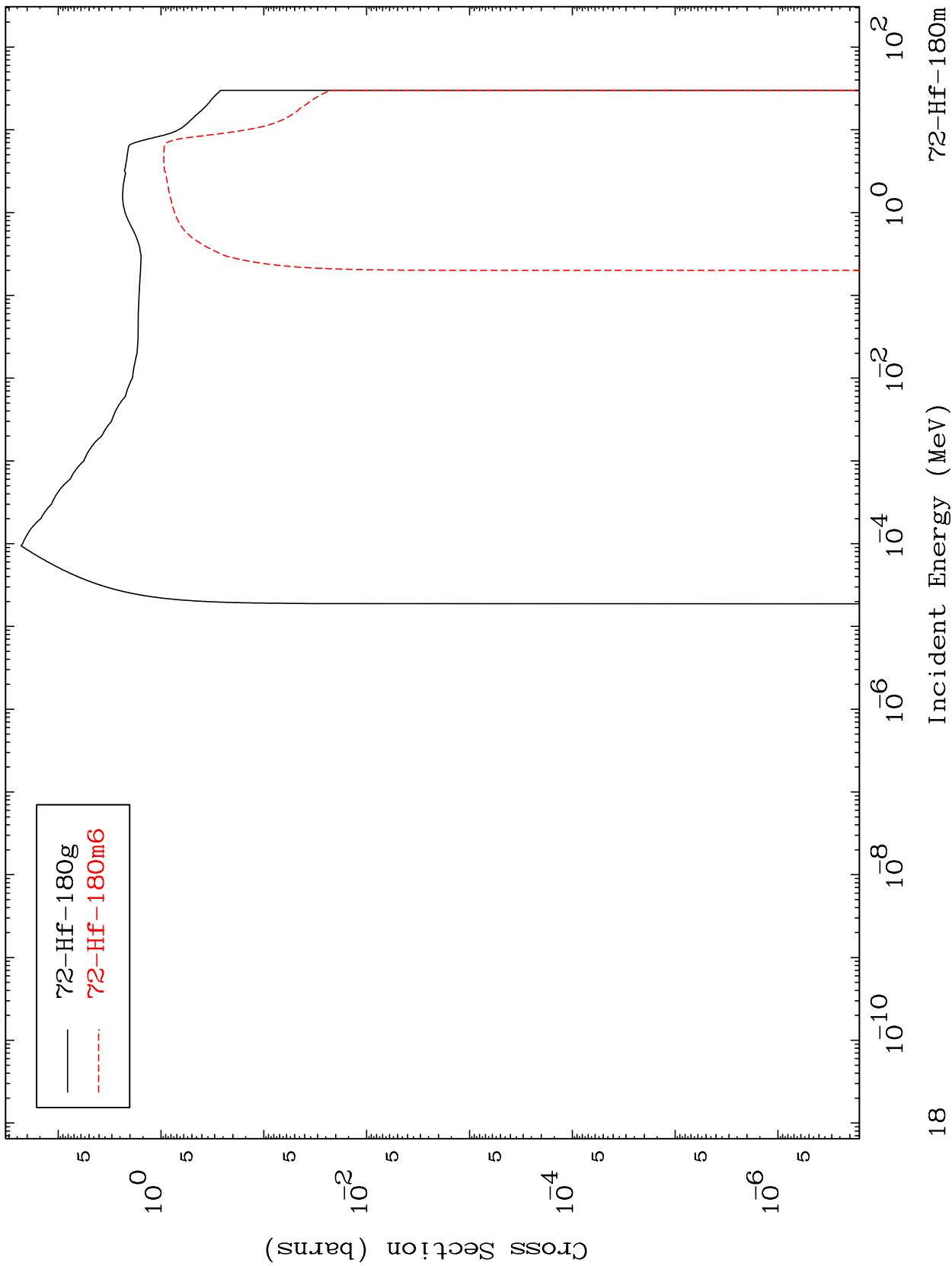
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⁷²Hf-180m

Radionuclide Production Cross Section

Inelastic

⁷²Hf-180m

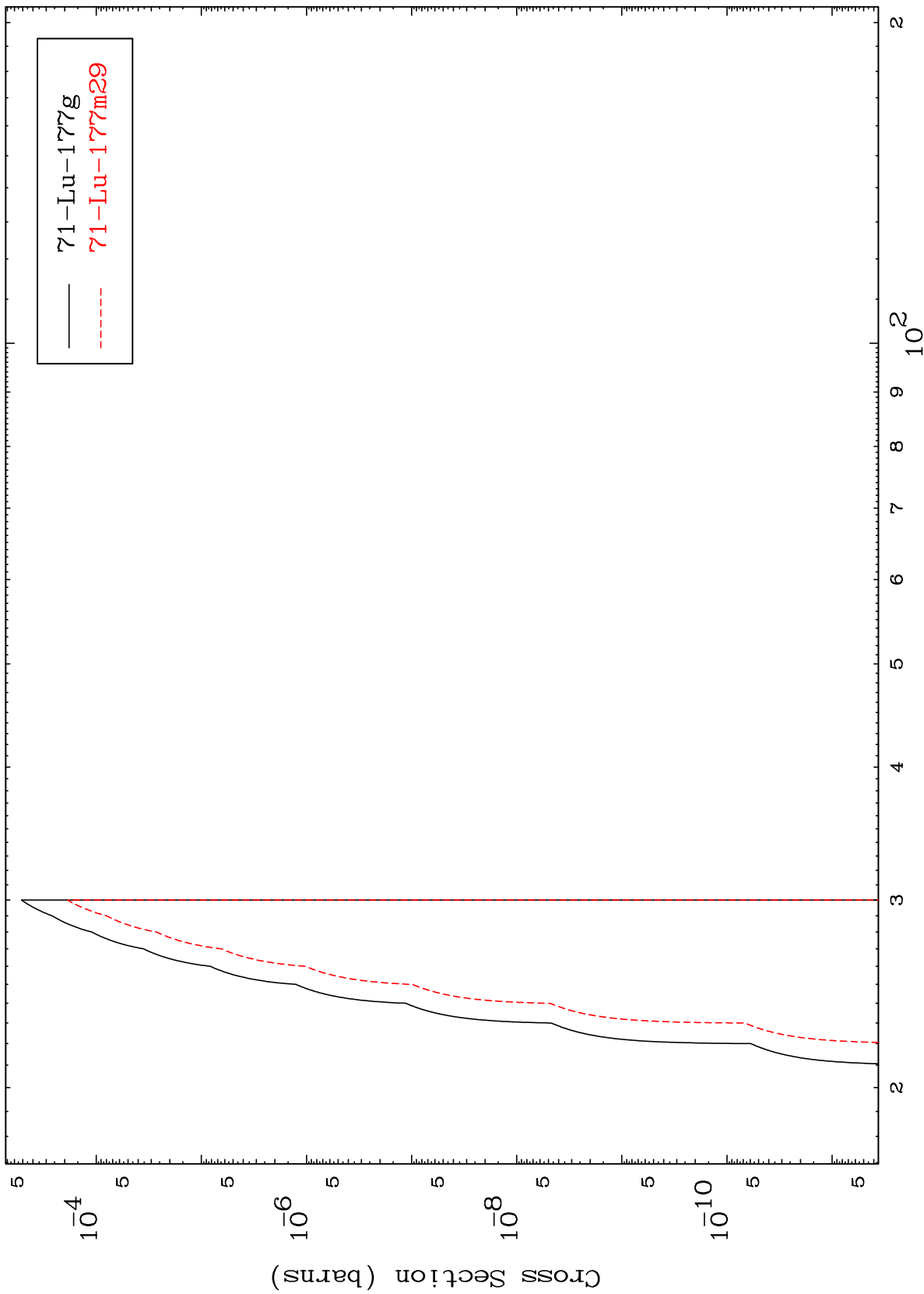


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(n,2n) d

72-Hf-180m

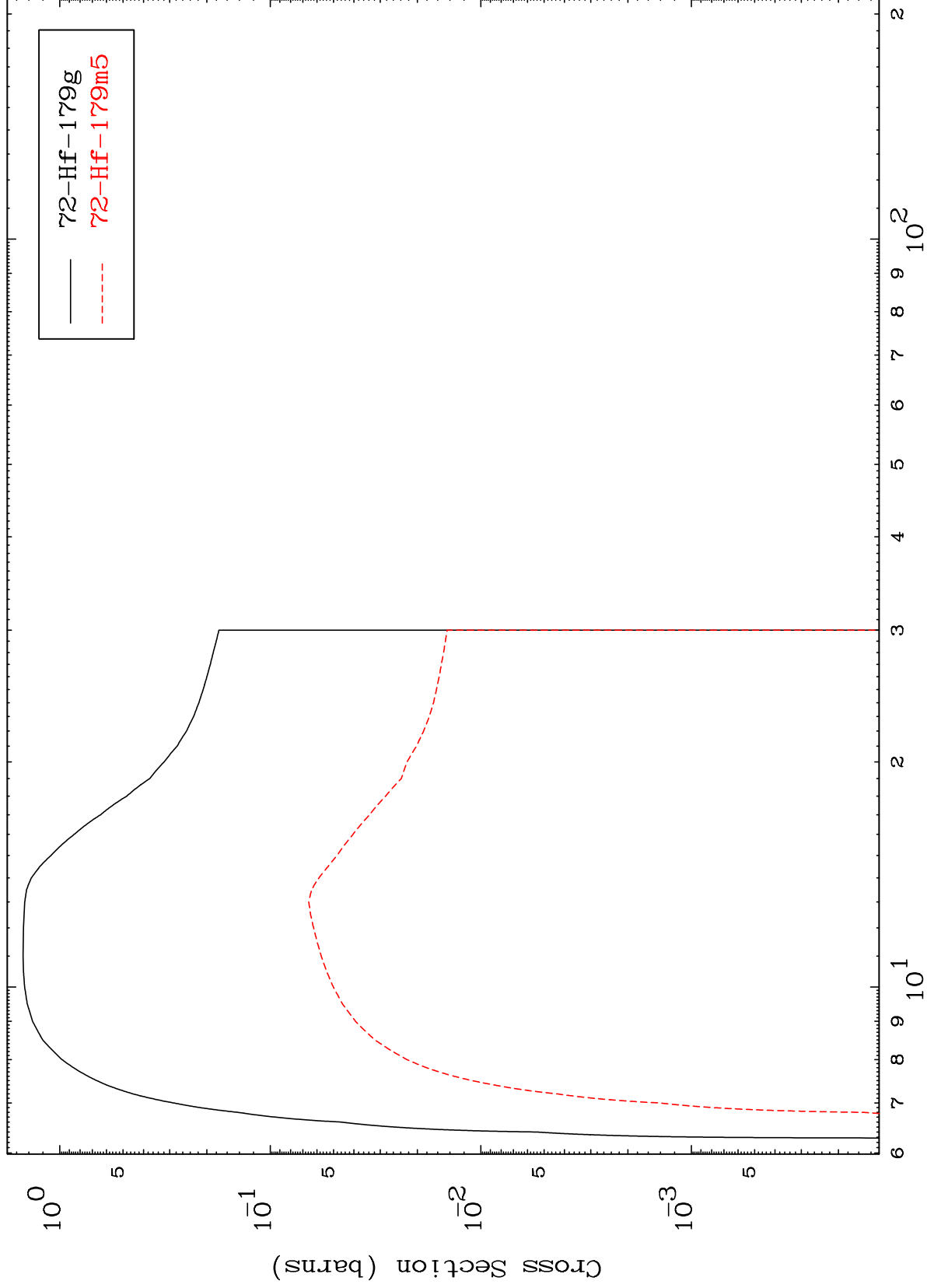
Radionuclide Production Cross Section



MAT 7244

⁷²Hf-180m

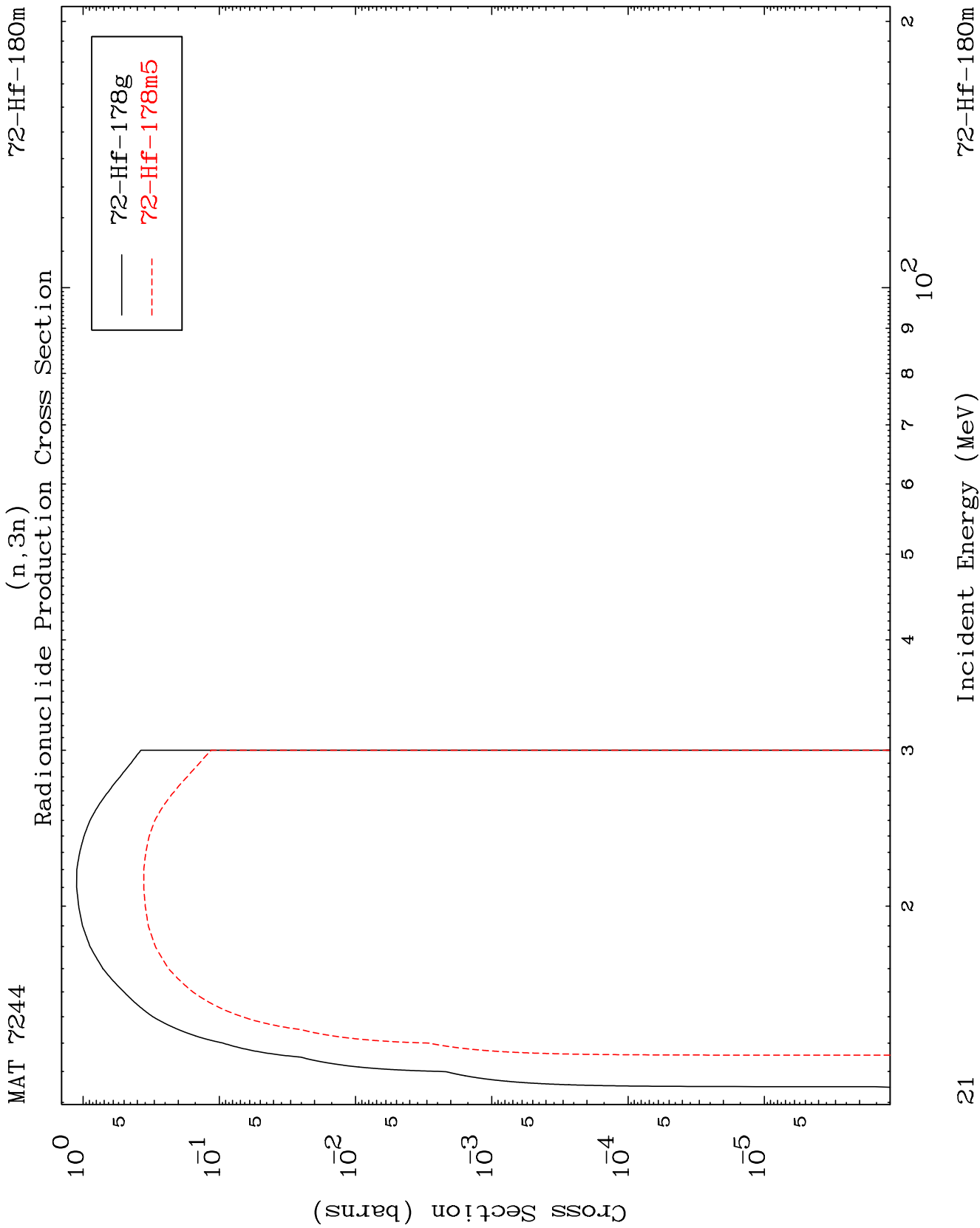
(n,2n)
Radionuclide Production Cross Section



⁷²Hf-180m

Incident Energy (MeV)

20

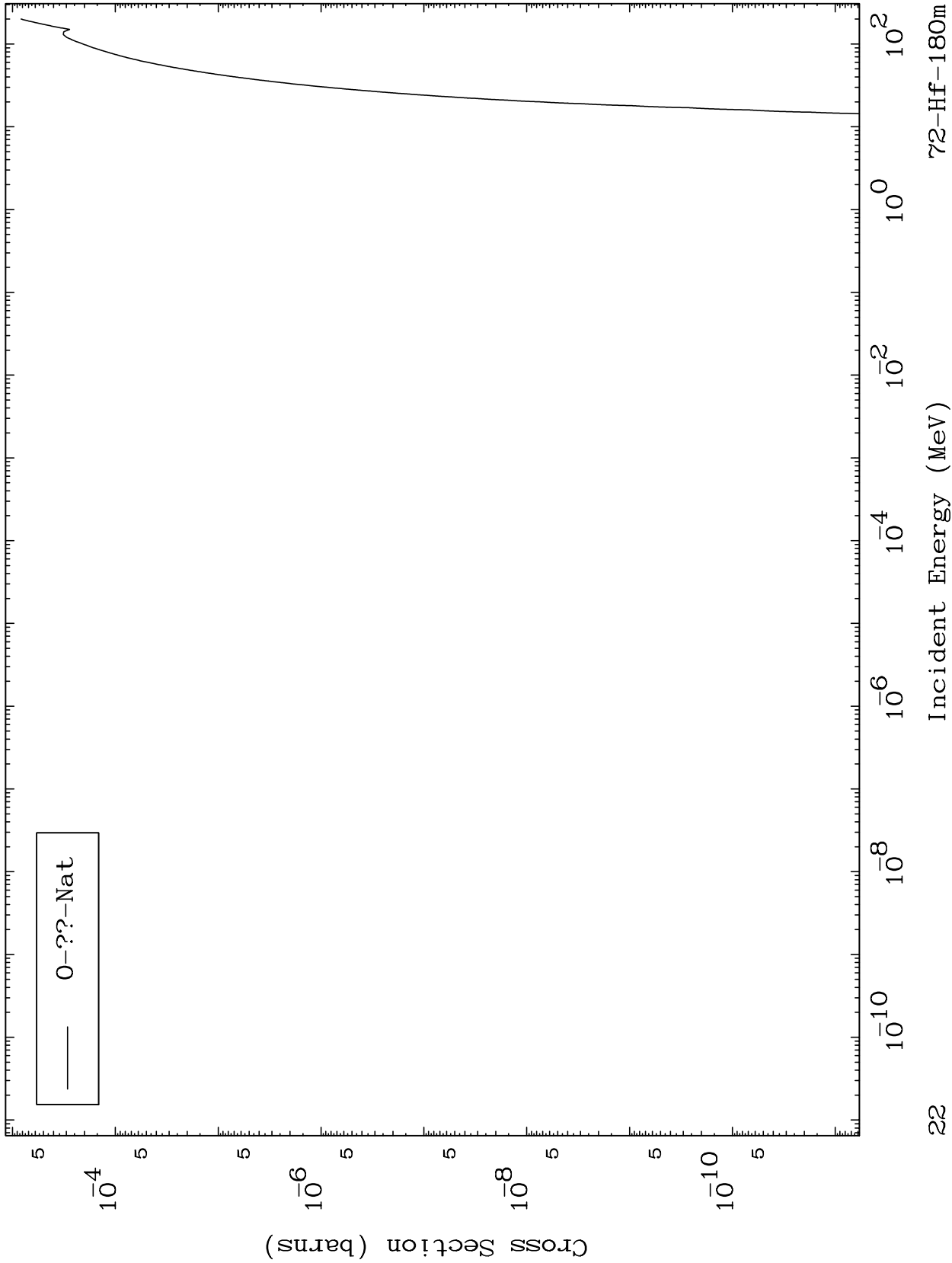


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Fission

⁷²Hf-180m

Radionuclide Production Cross Section

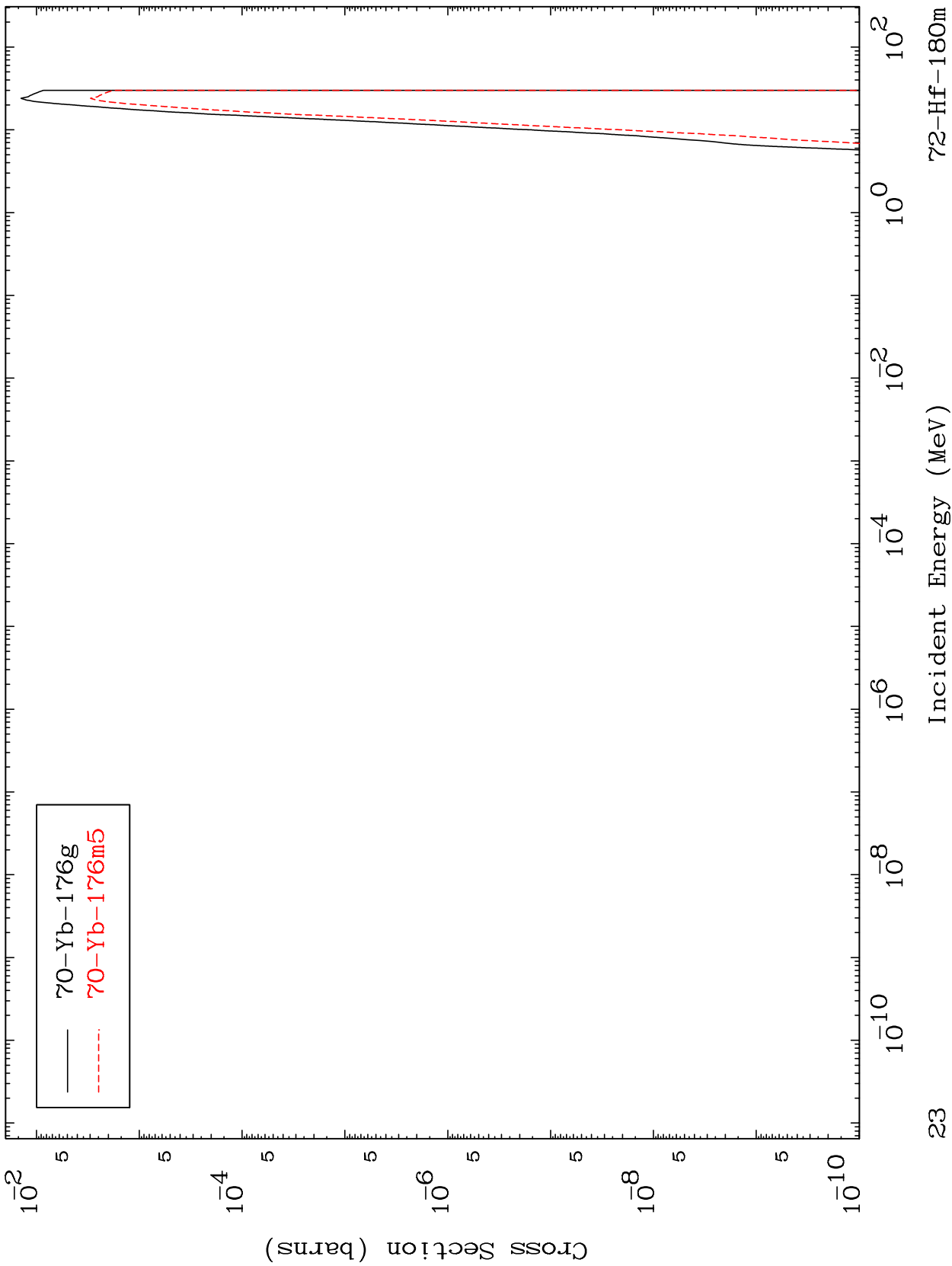


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$(n, n') \alpha$

$^{72}\text{Hf}-180\text{m}$

Radionuclide Production Cross Section

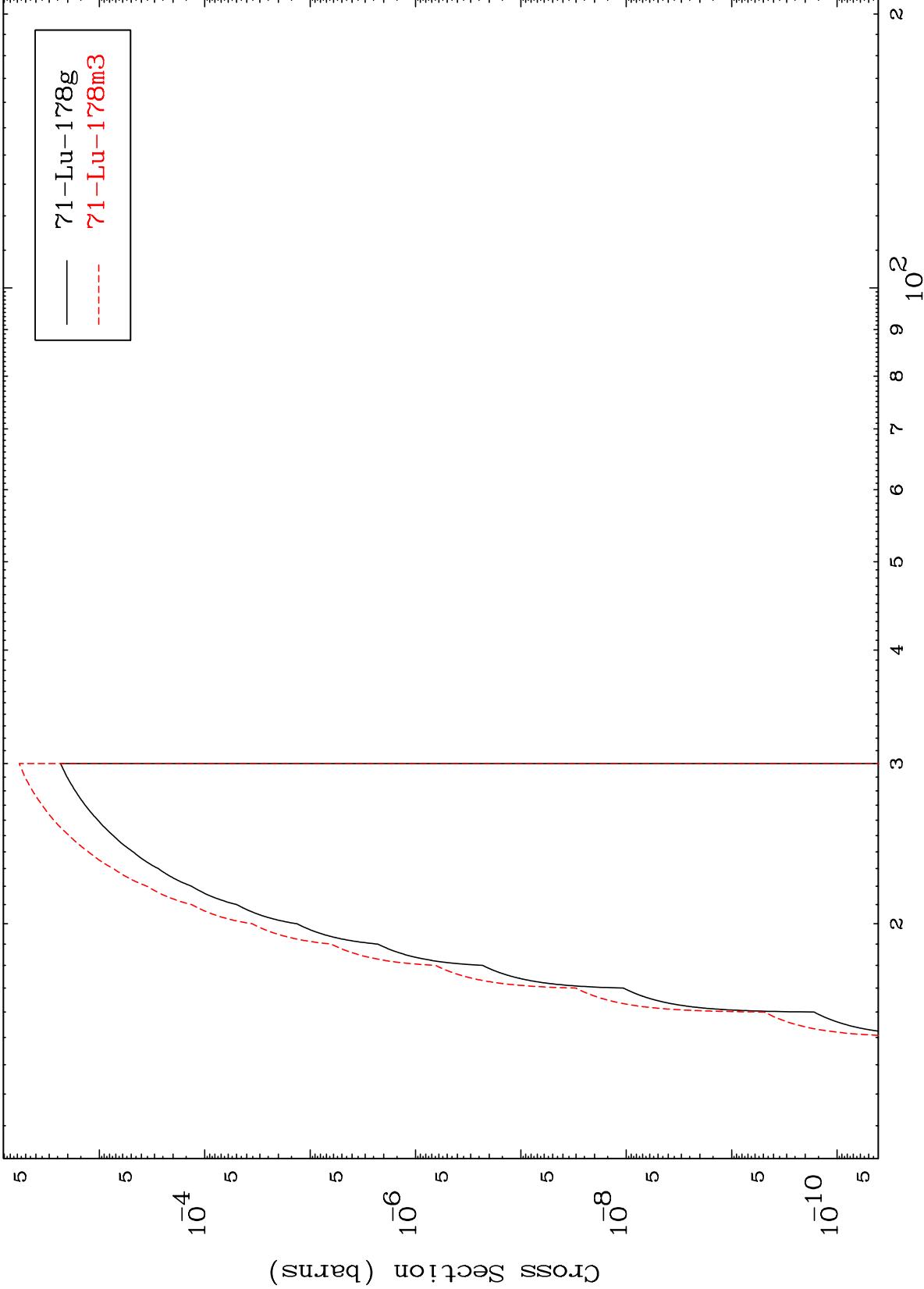


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(n,n') d

72-Hf-180m

Radionuclide Production Cross Section



24

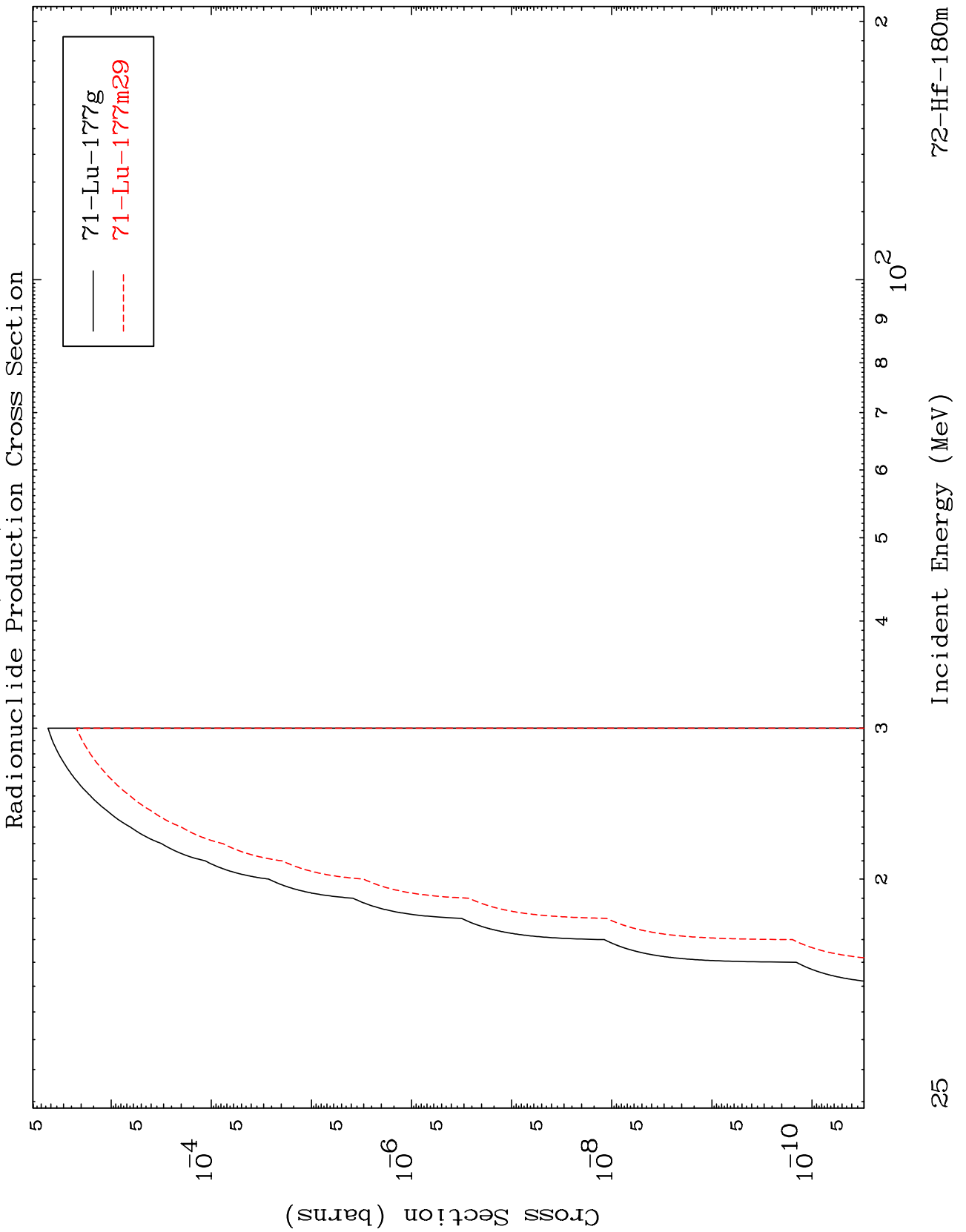
Incident Energy (MeV)

72-Hf-180m

MAT 7244

(n,n') t

72-Hf-180m



25

Incident Energy (MeV)

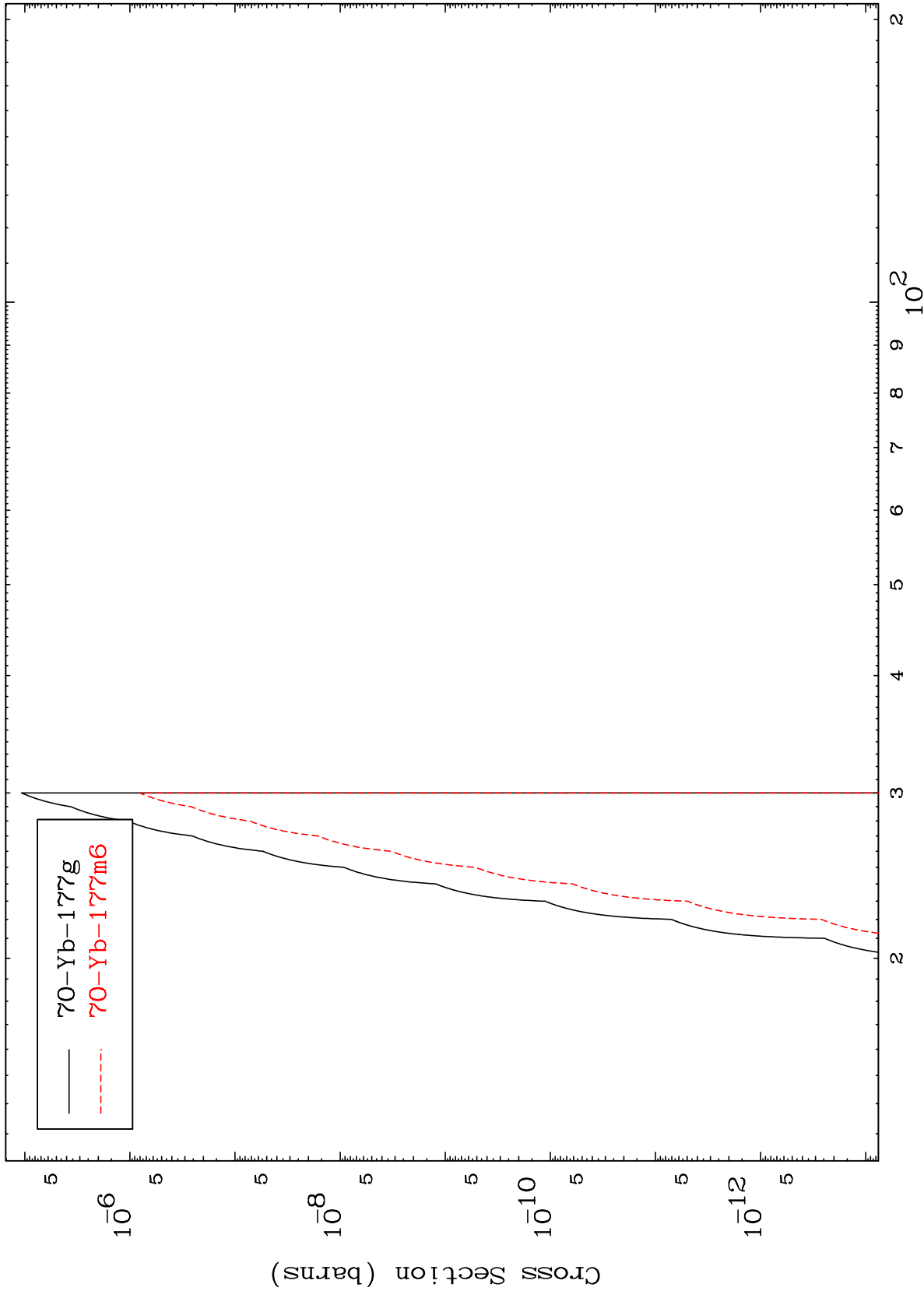
72-Hf-180m

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(n,n') He-3

72-Hf-180m

Radionuclide Production Cross Section



Incident Energy (MeV)

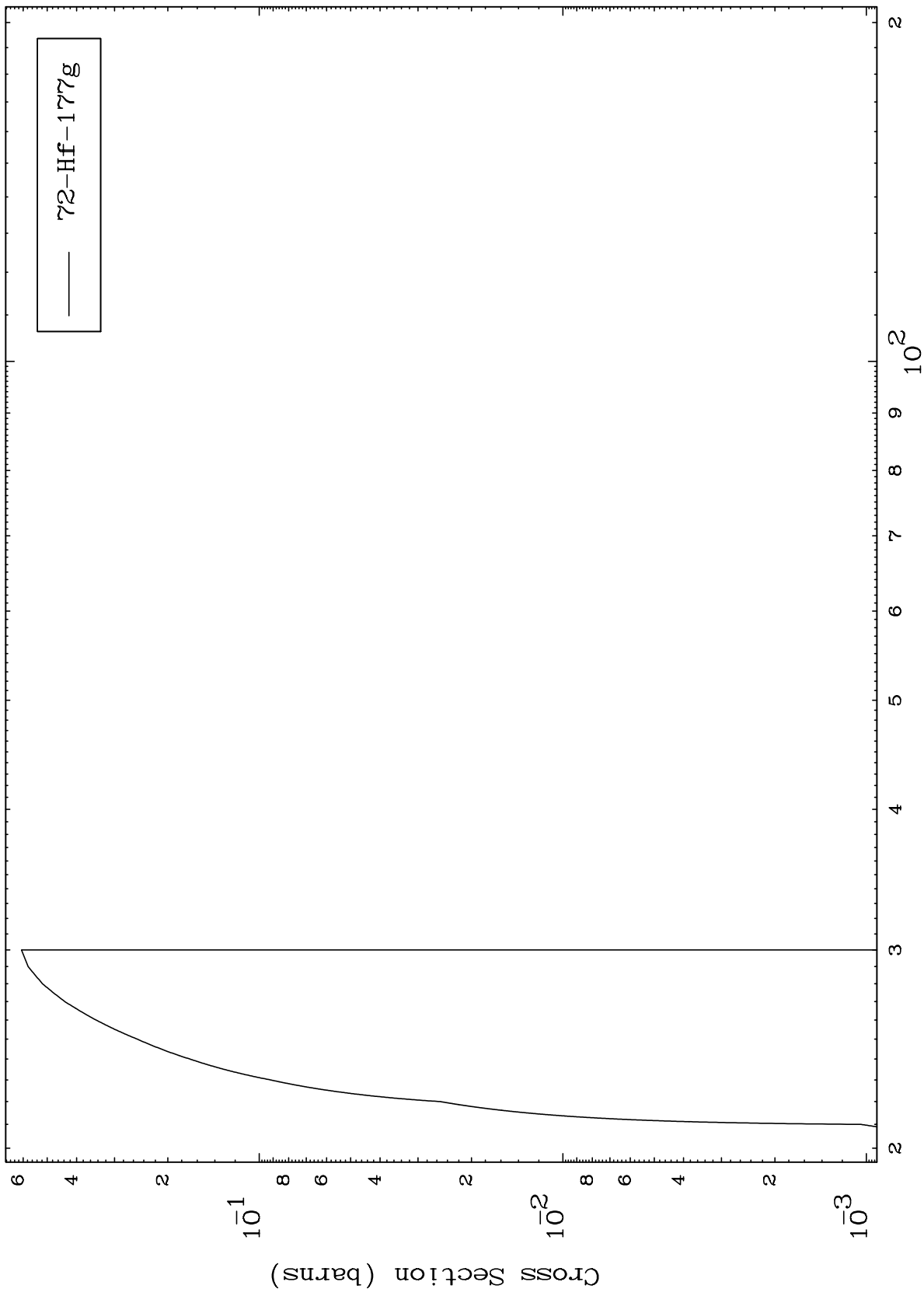
72-Hf-180m

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72-Hf-180m

(n,4n)
Radionuclide Production Cross Section



72-Hf-180m

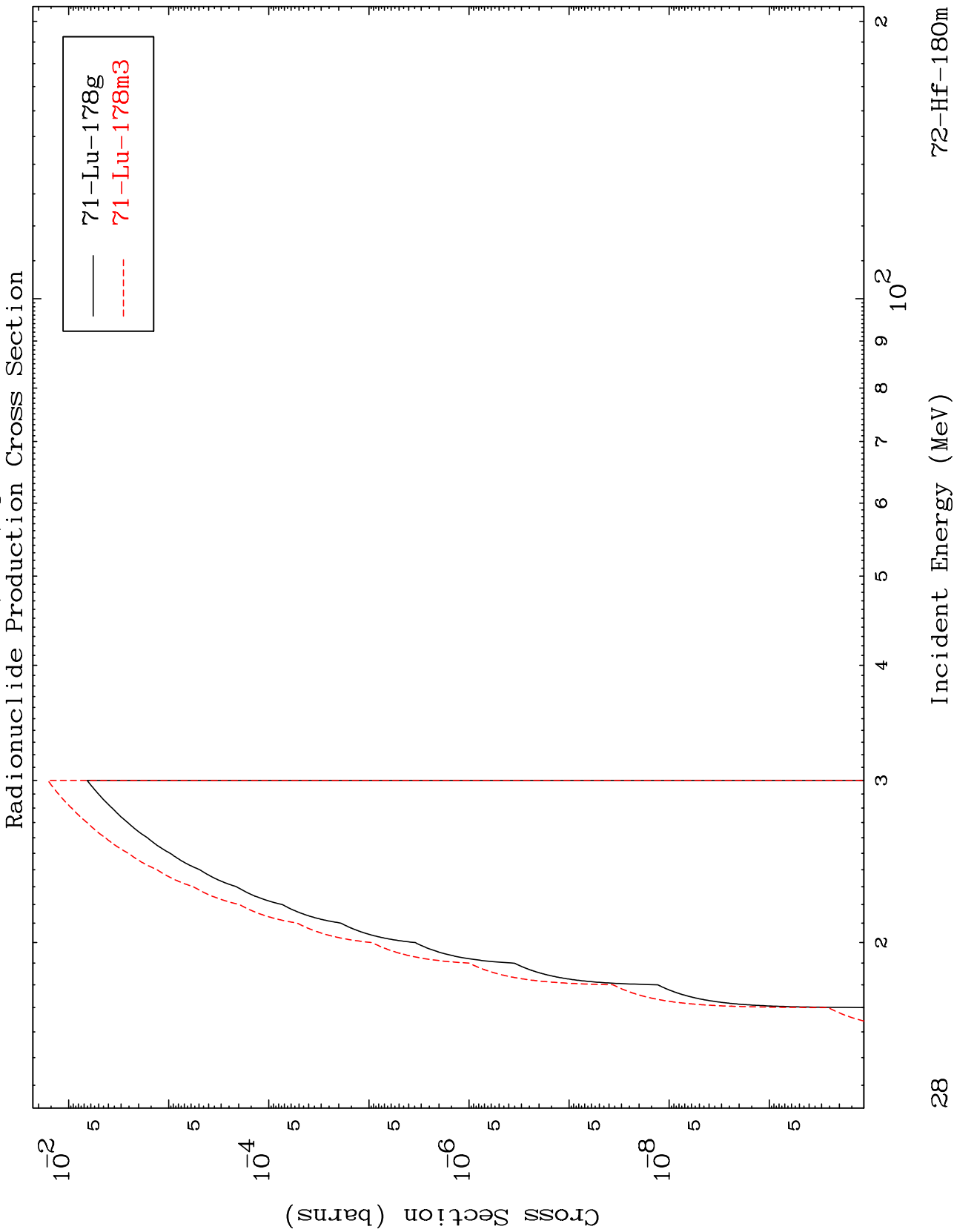
Incident Energy (MeV)

27

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(n,2n) p

⁷²Hf-180m

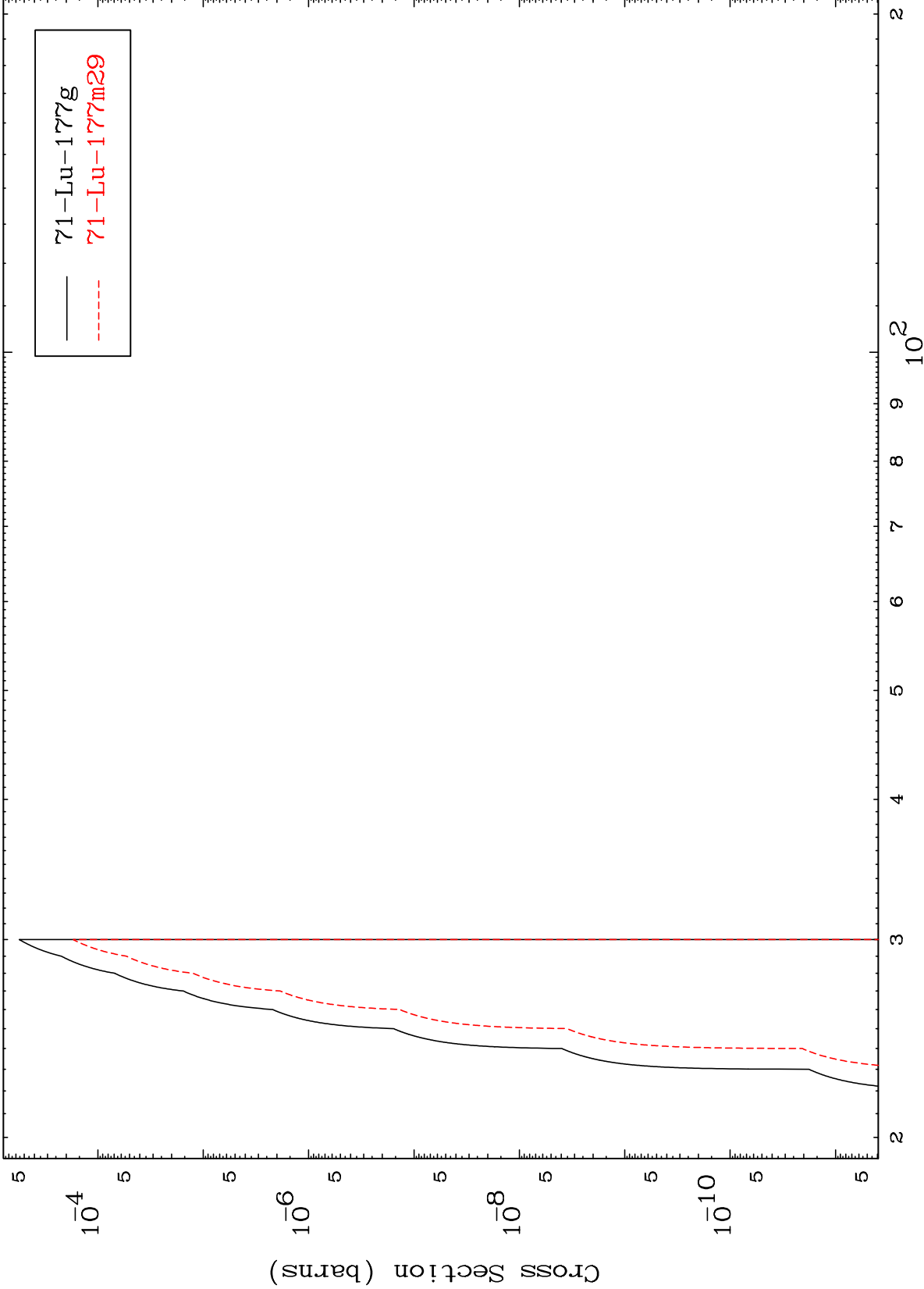


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(n,3n) p

⁷²Hf-180m

Radionuclide Production Cross Section



29

Incident Energy (MeV)

⁷²Hf-180m

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72-Hf-180m

