

Program EVALPLOT
(Version 2021-1)

by

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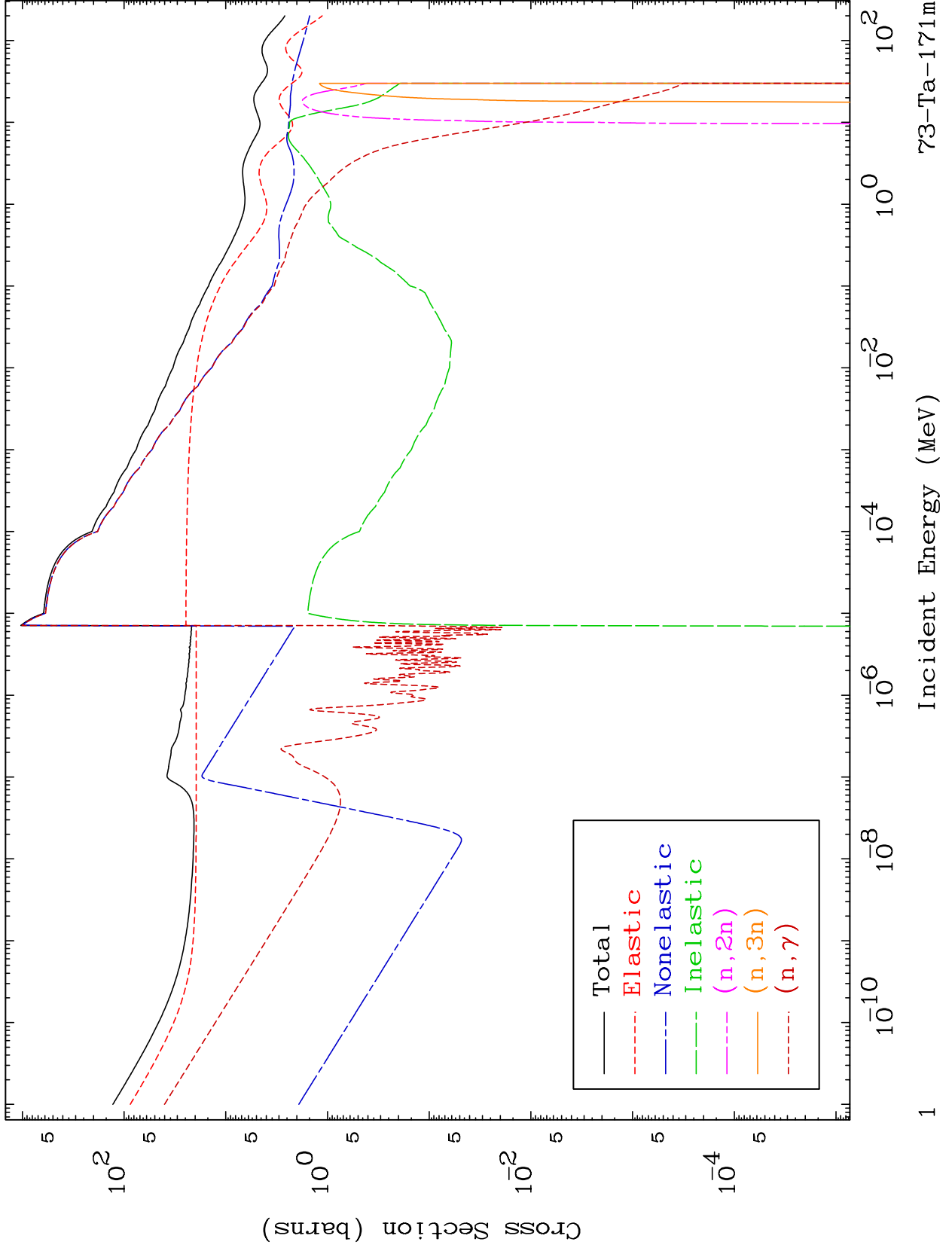
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7299

Neutron Major
293 Kelvin Cross Sections

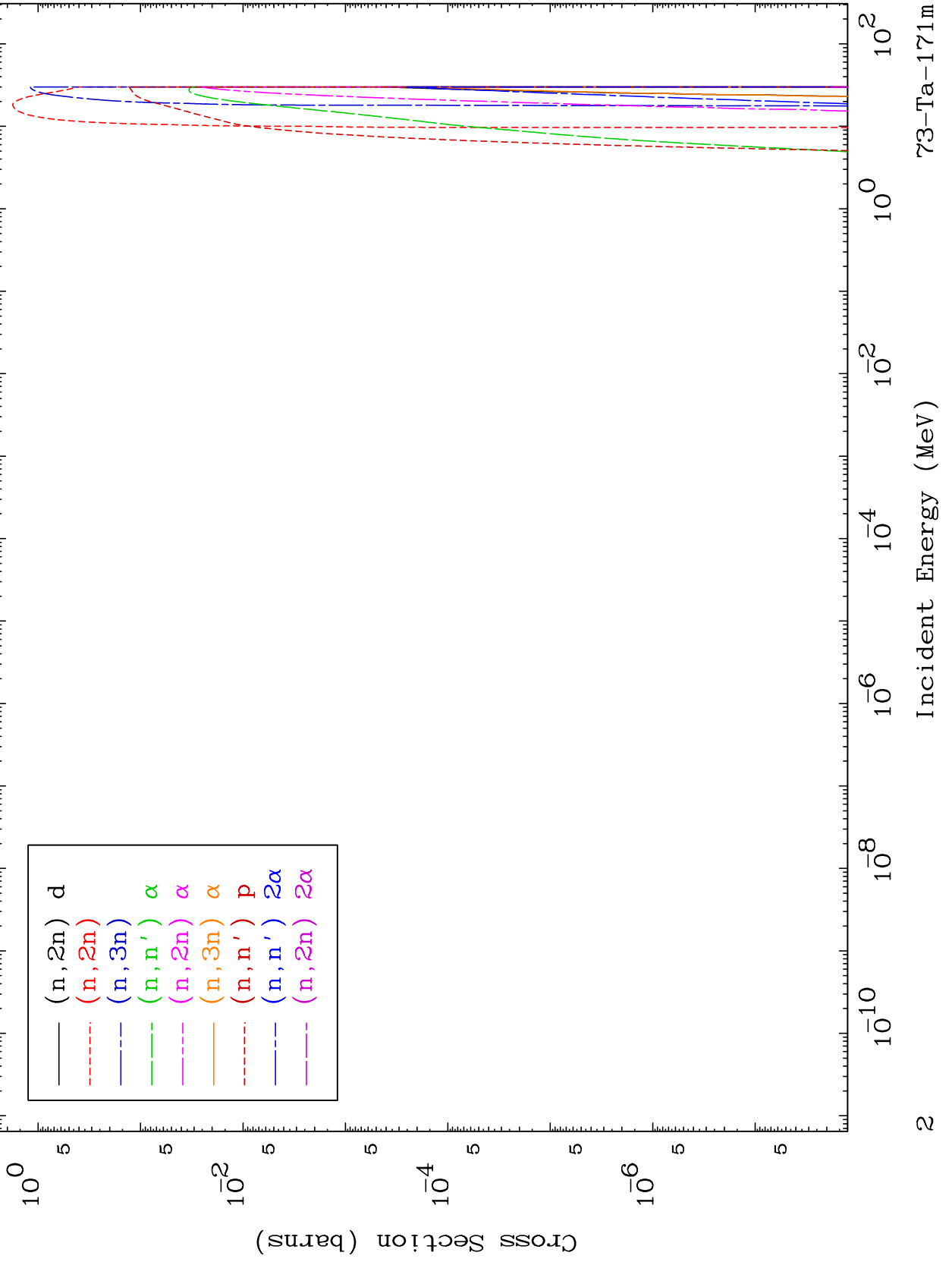
73-Ta-171m



MAT 7299

Neutron Absorption
293 Kelvin Cross Sections

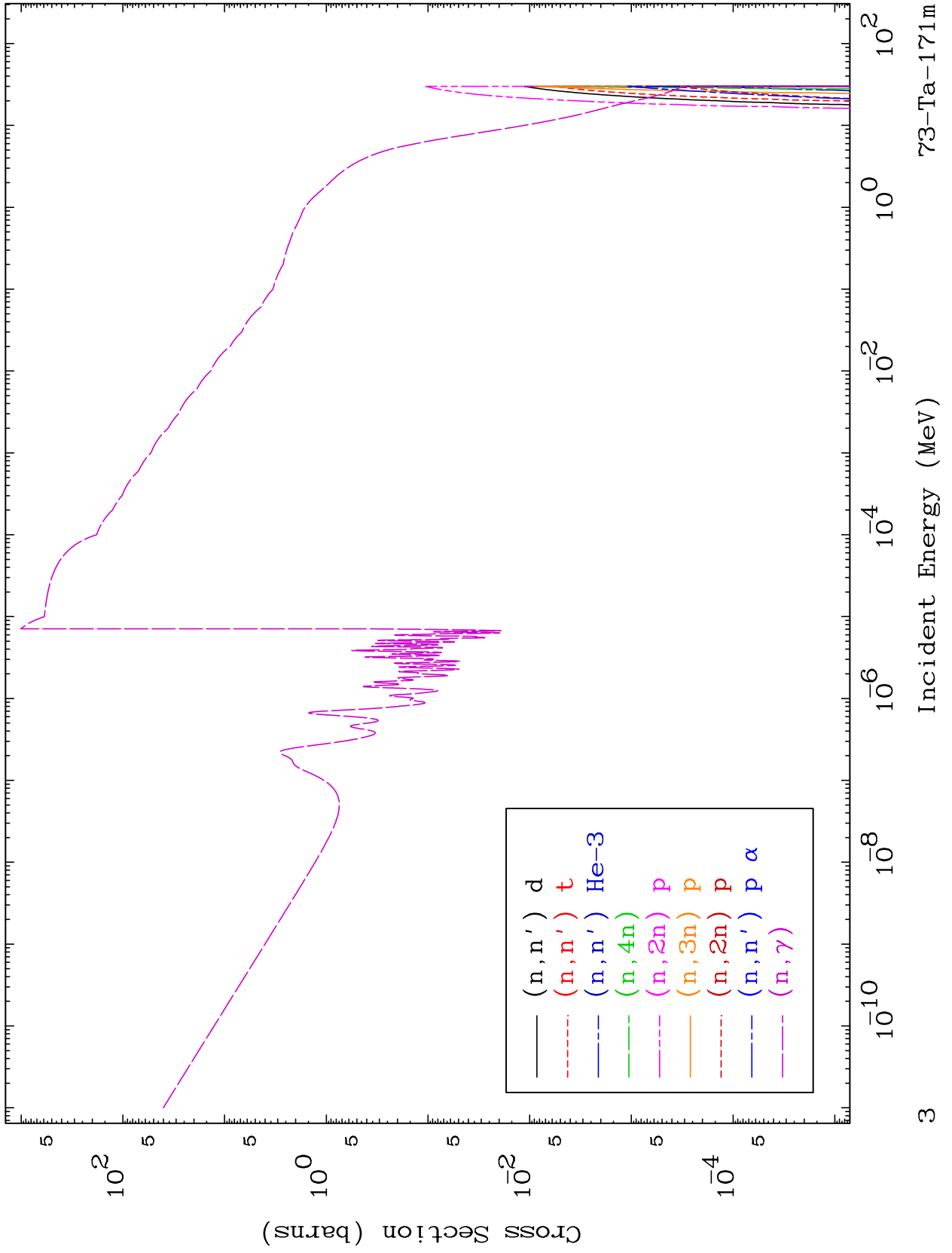
⁷³Ta-171m



MAT 7299

Neutron Absorption
293 Kelvin Cross Sections

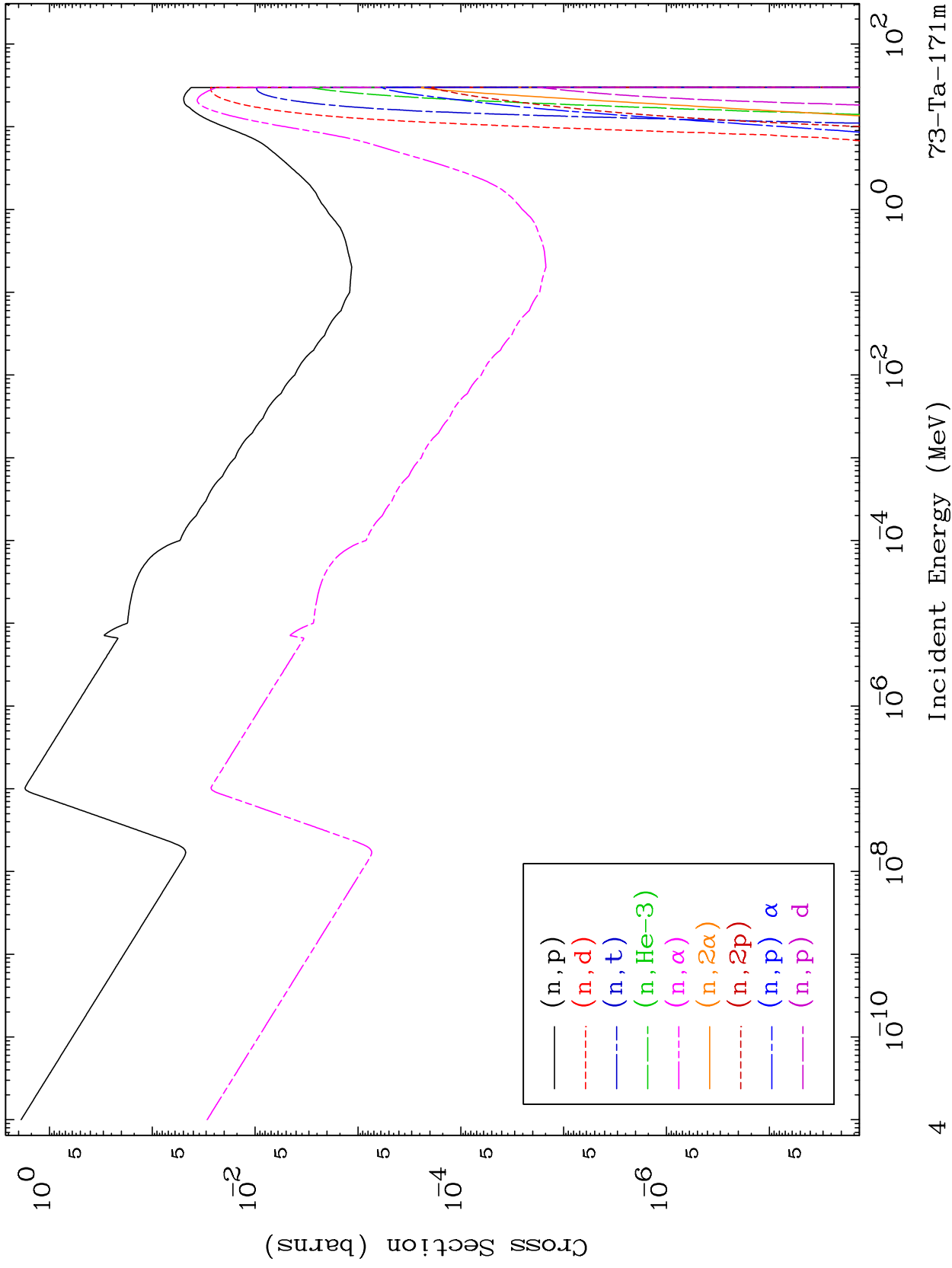
⁷³Ta-171m



MAT 7299

Neutron Absorption
293 Kelvin Cross Sections

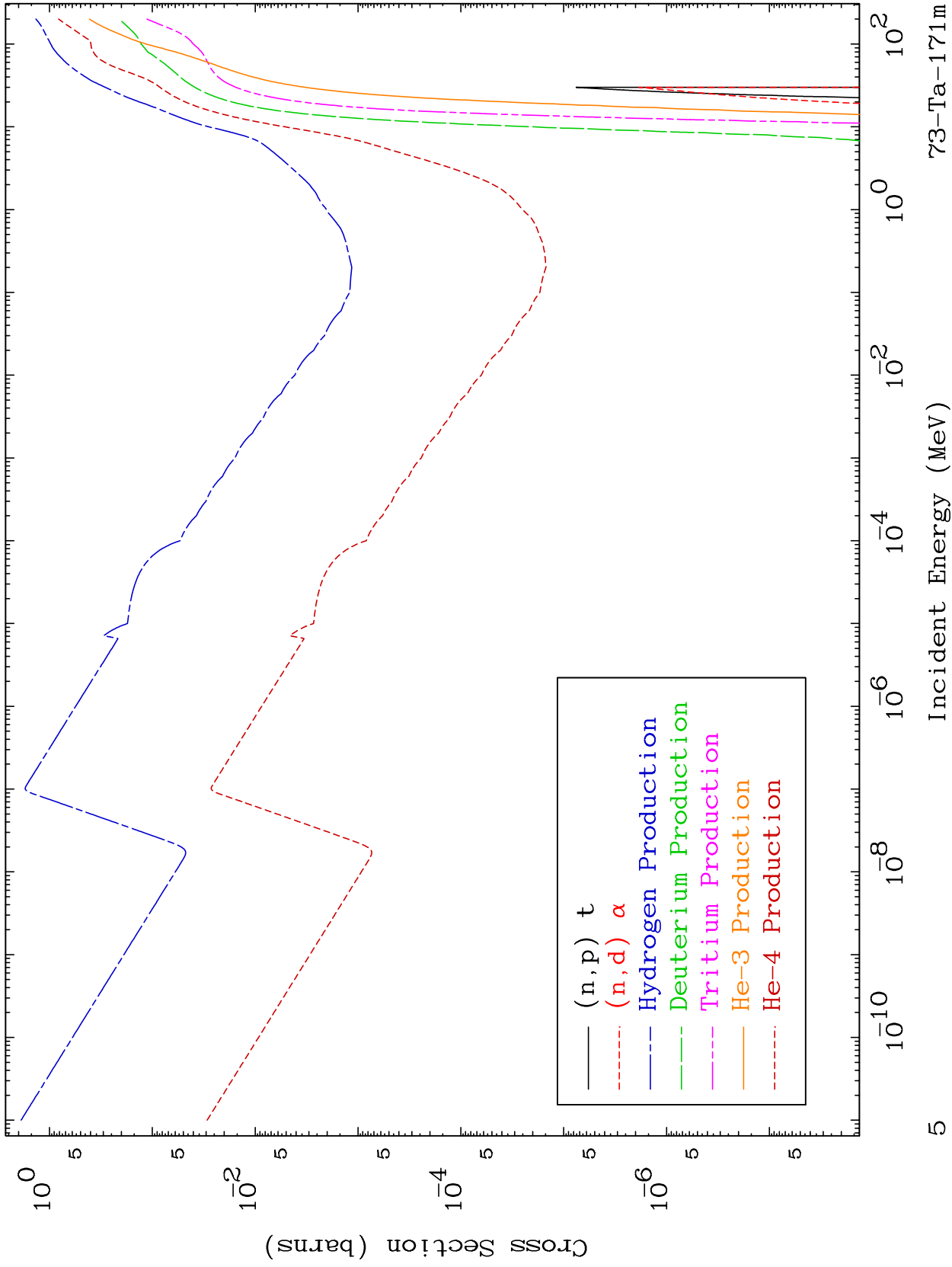
⁷³Ta-171m



MAT 7299

Neutron Absorption
293 Kelvin Cross Sections

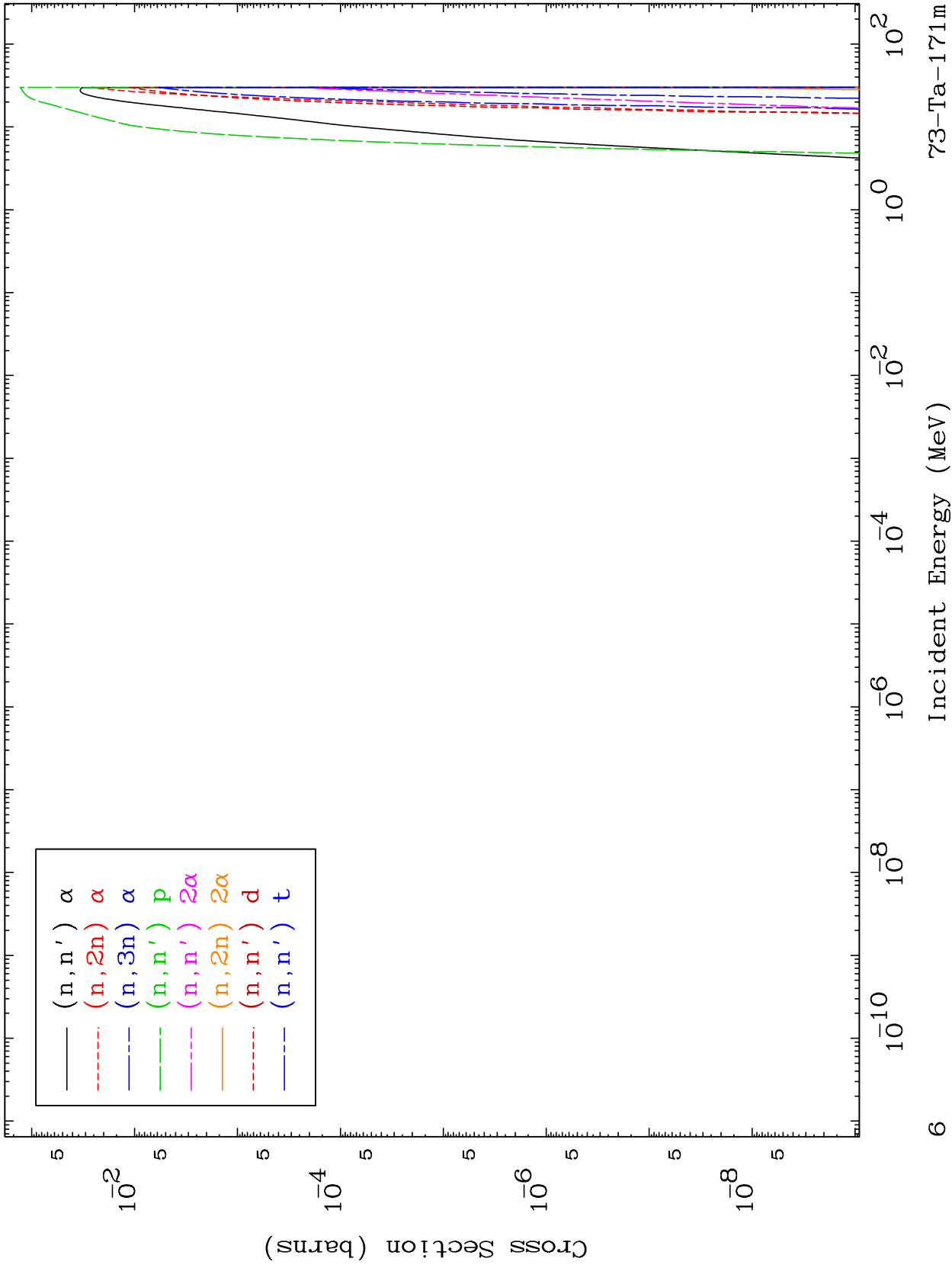
⁷³Ta-171m



MAT 7299

Charged Particle
293 Kelvin Cross Sections

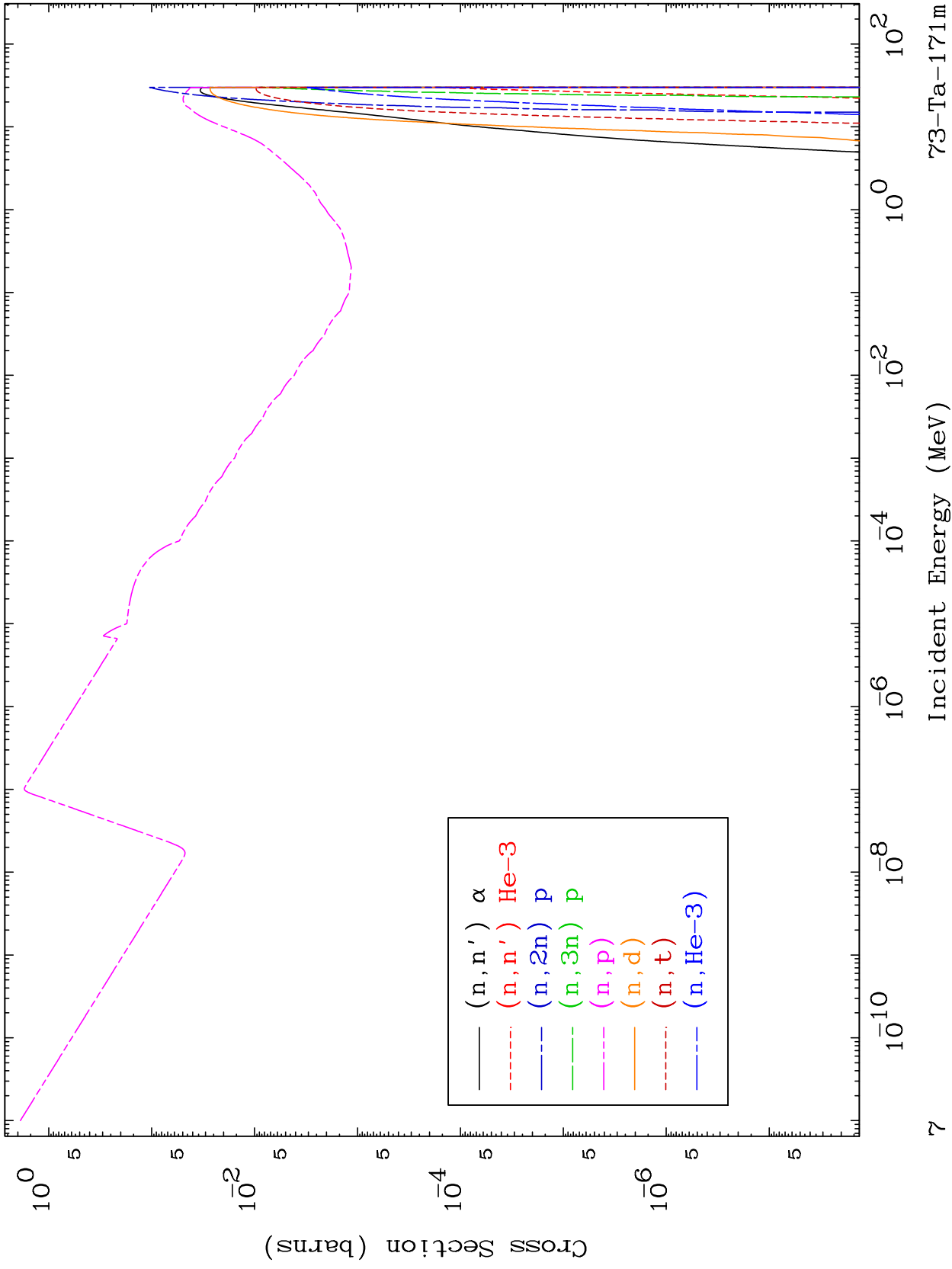
⁷³Ta-171m



MAT 7299

Charged Particle
293 Kelvin Cross Sections

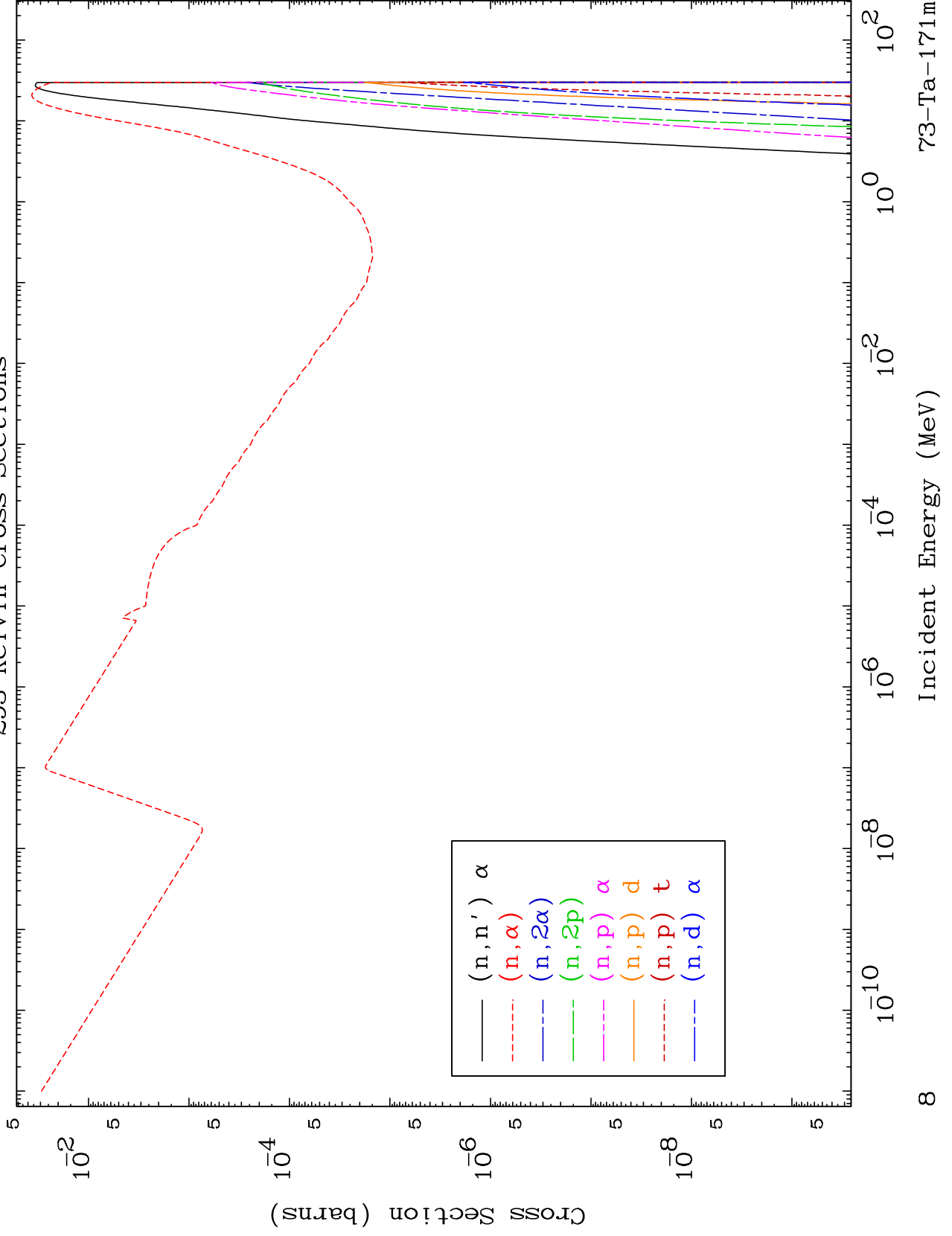
⁷³Ta-171m



MAT 7299

Charged Particle
293 Kelvin Cross Sections

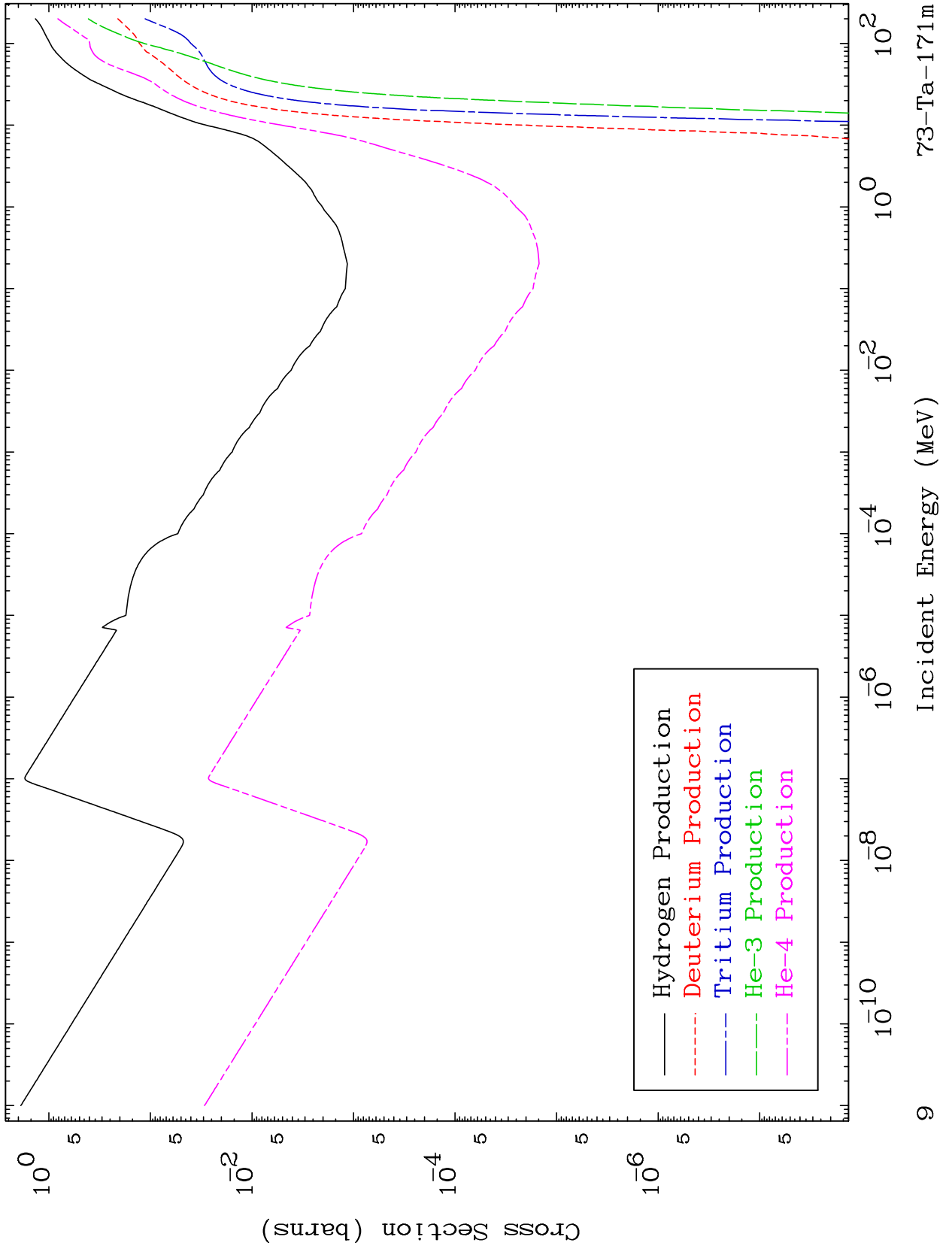
⁷³Ta-171m



MAT 7299

Particle Production
293 Kelvin Cross Sections

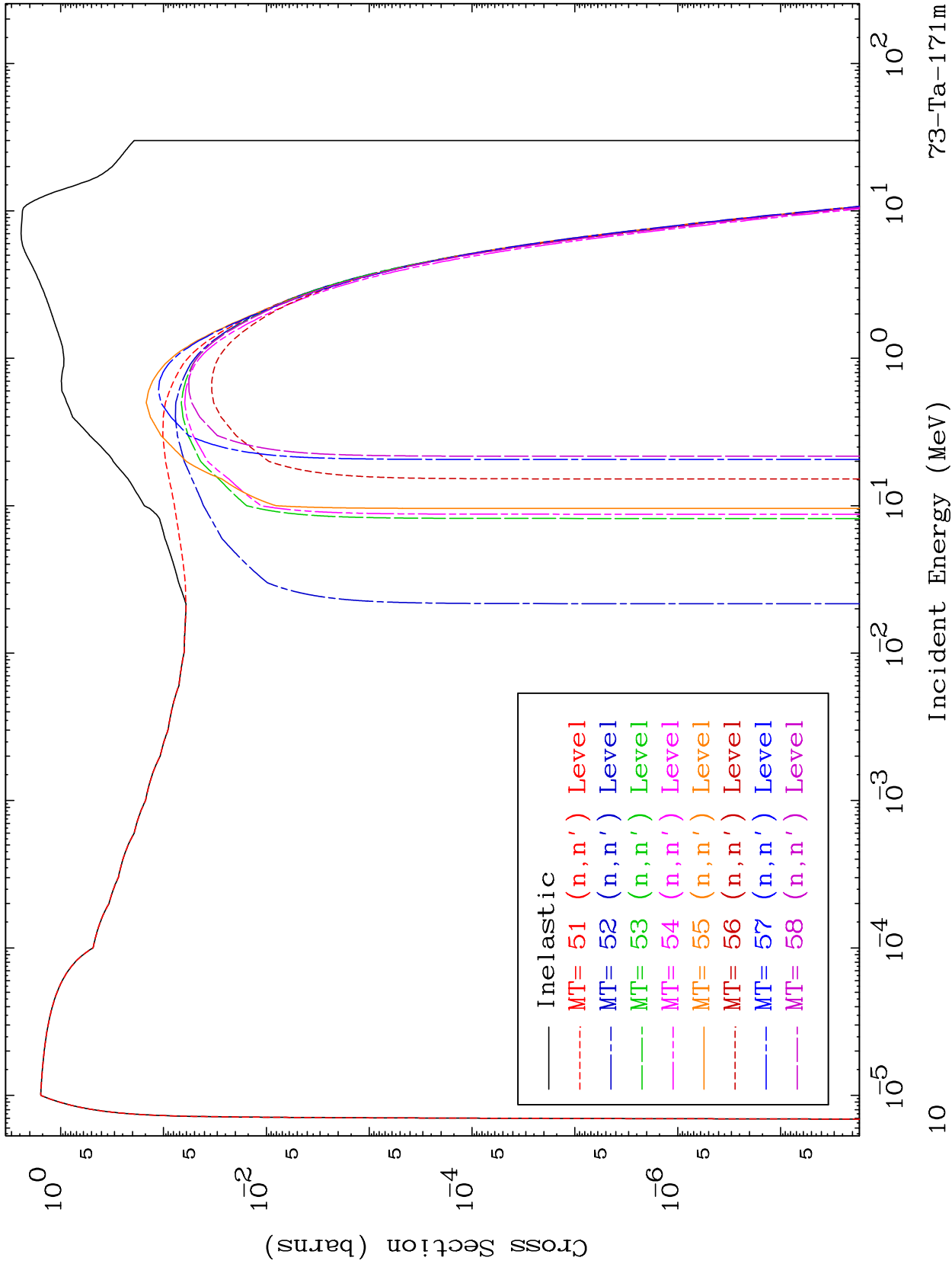
⁷³Ta-171m



MAT 7299

(n,n') Levels
293 Kelvin Cross Sections

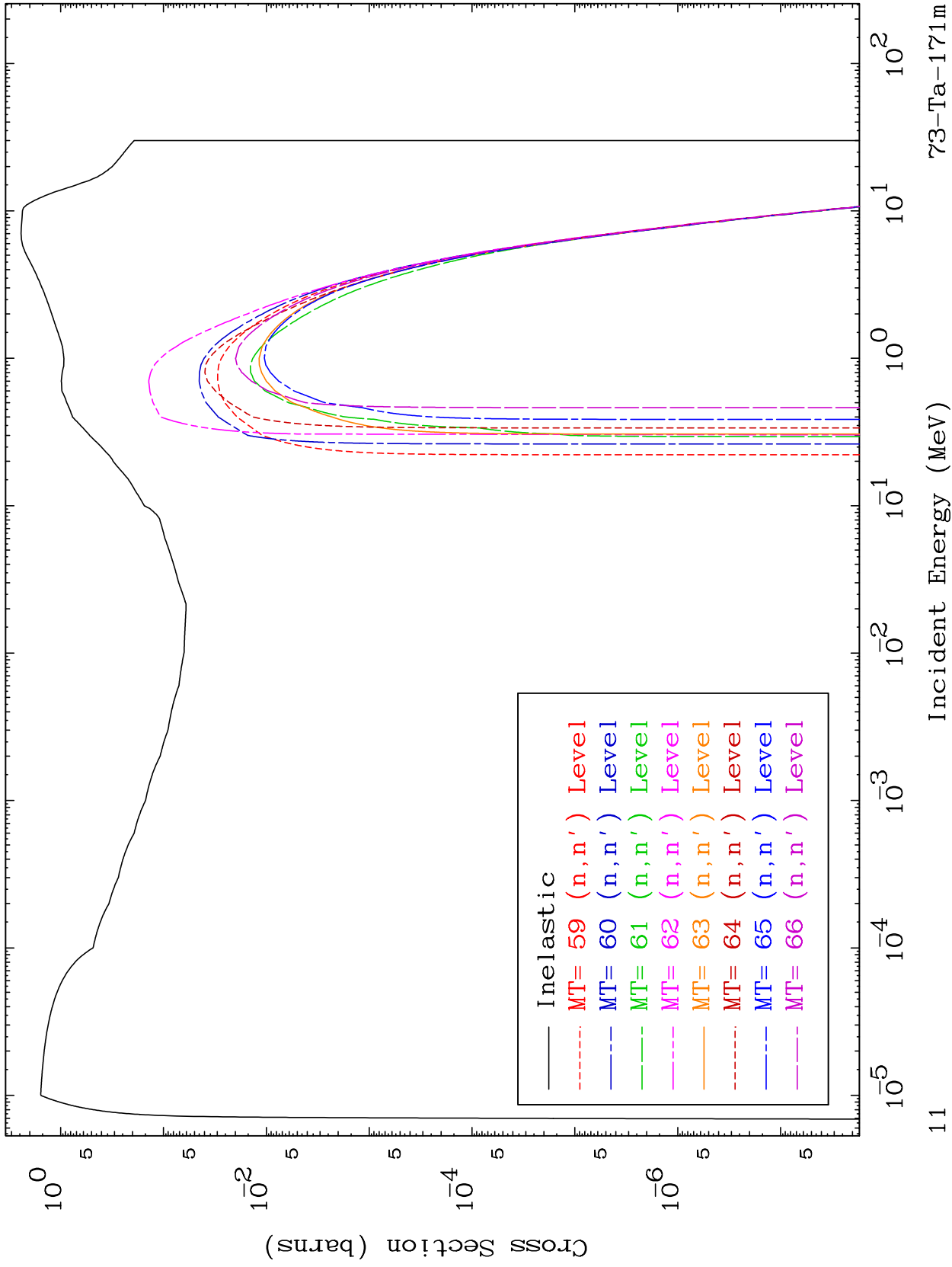
⁷³Ta-171m



MAT 7299

(n,n') Levels
293 Kelvin Cross Sections

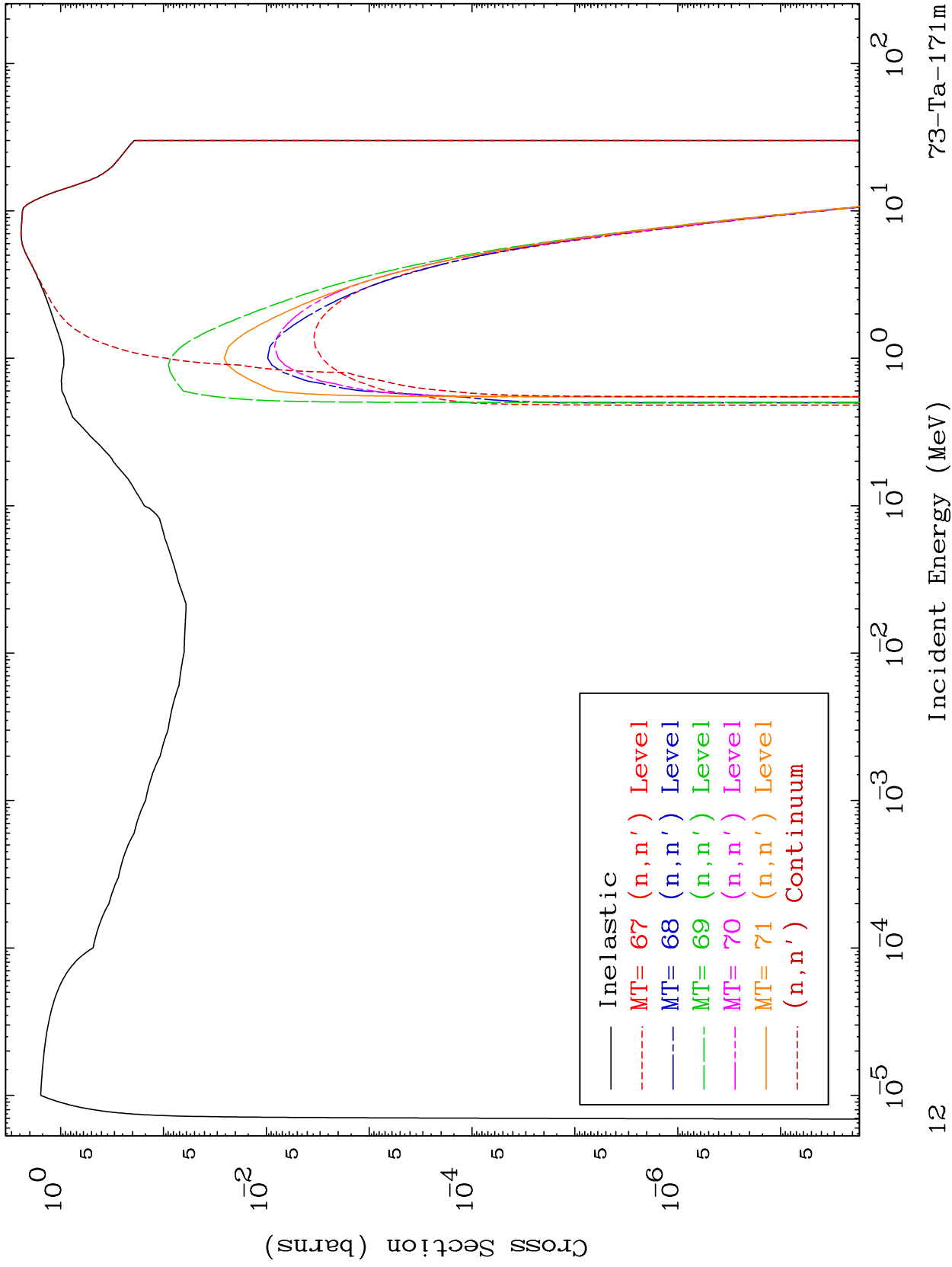
⁷³Ta-171m



MAT 7299

(n,n') Levels
293 Kelvin Cross Sections

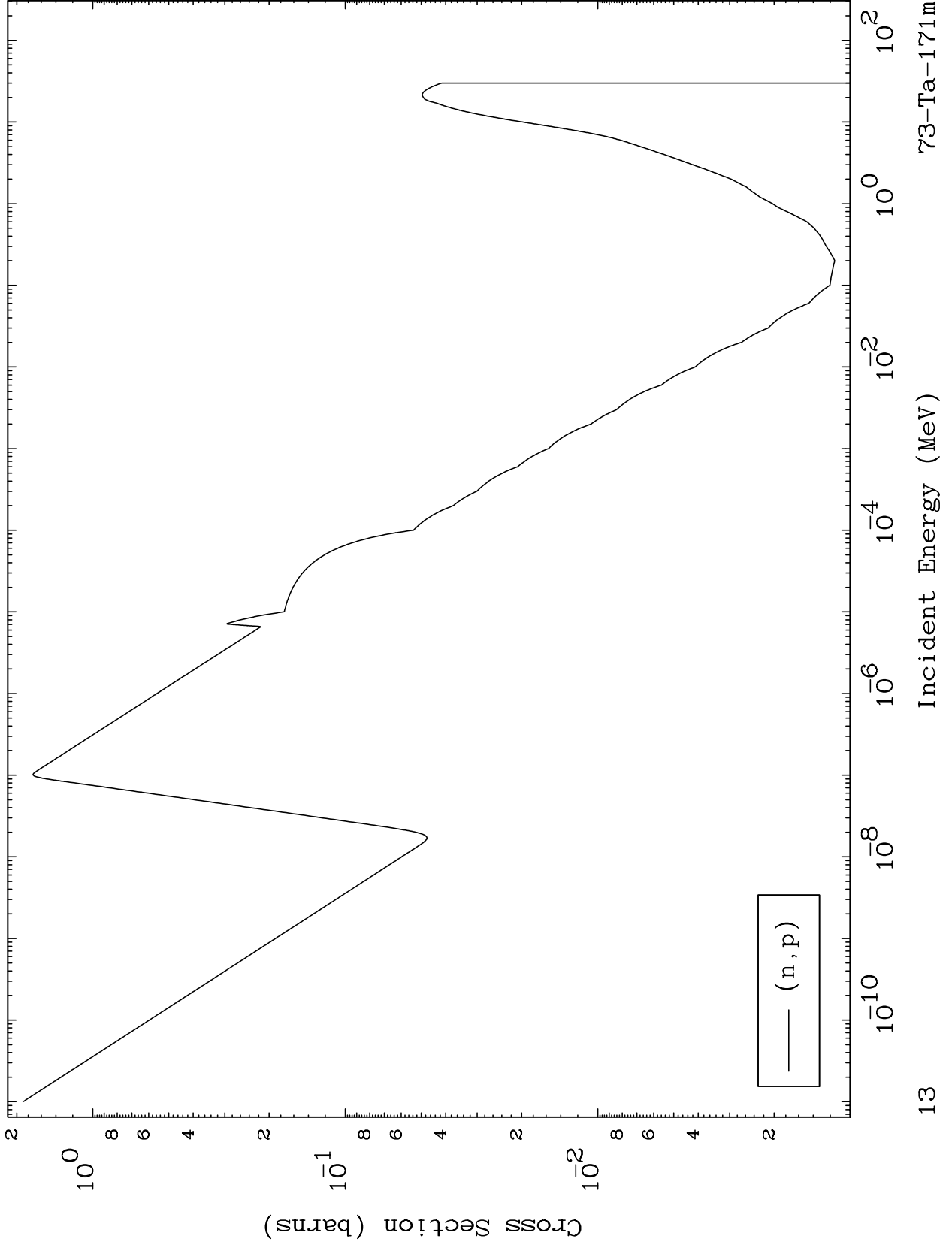
⁷³Ta-171m



MAT 7299

(n,p) Levels
293 Kelvin Cross Sections

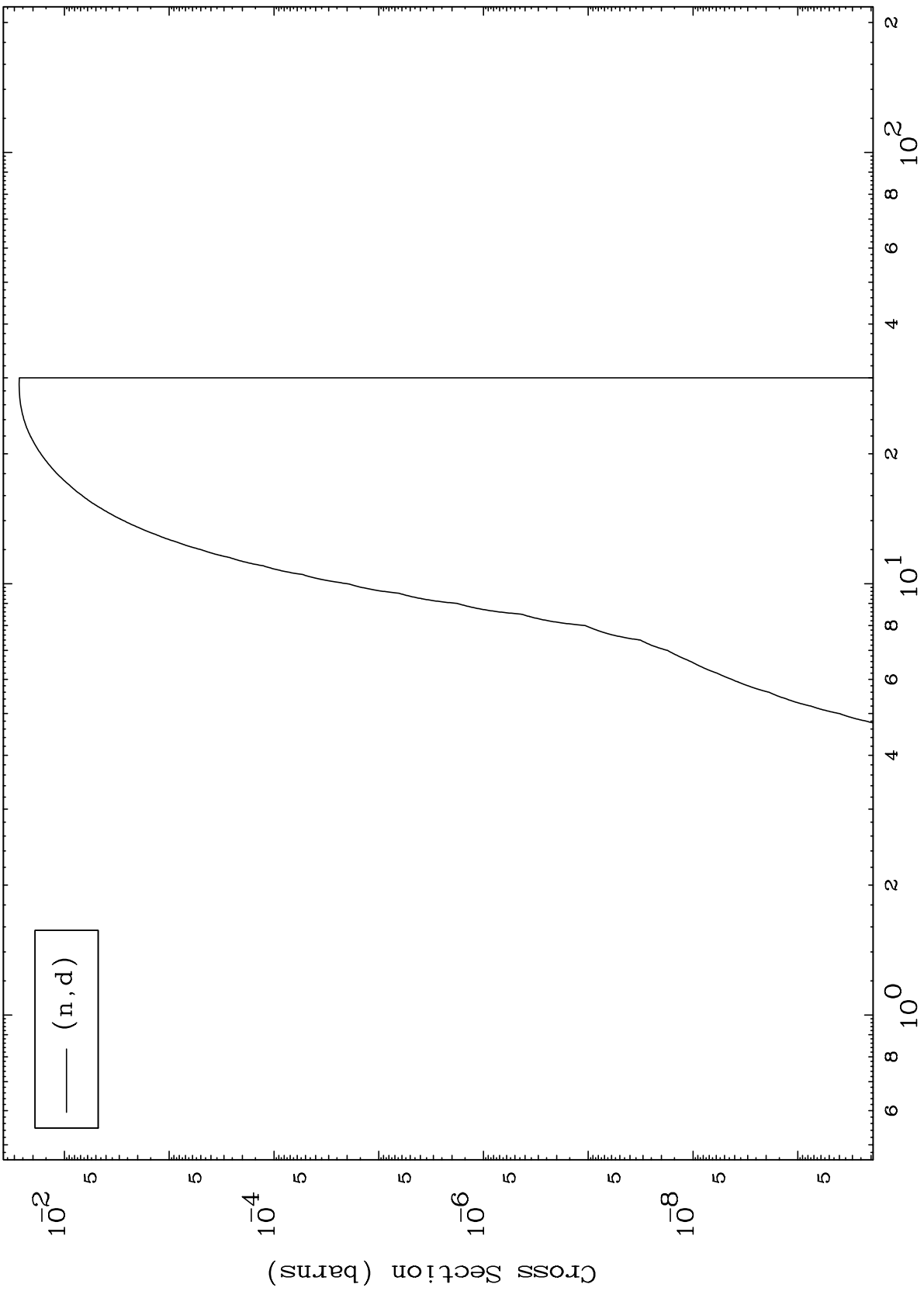
⁷³Ta-171m



MAT 7299

(n,d) Levels
293 Kelvin Cross Sections

⁷³Ta-171m



14

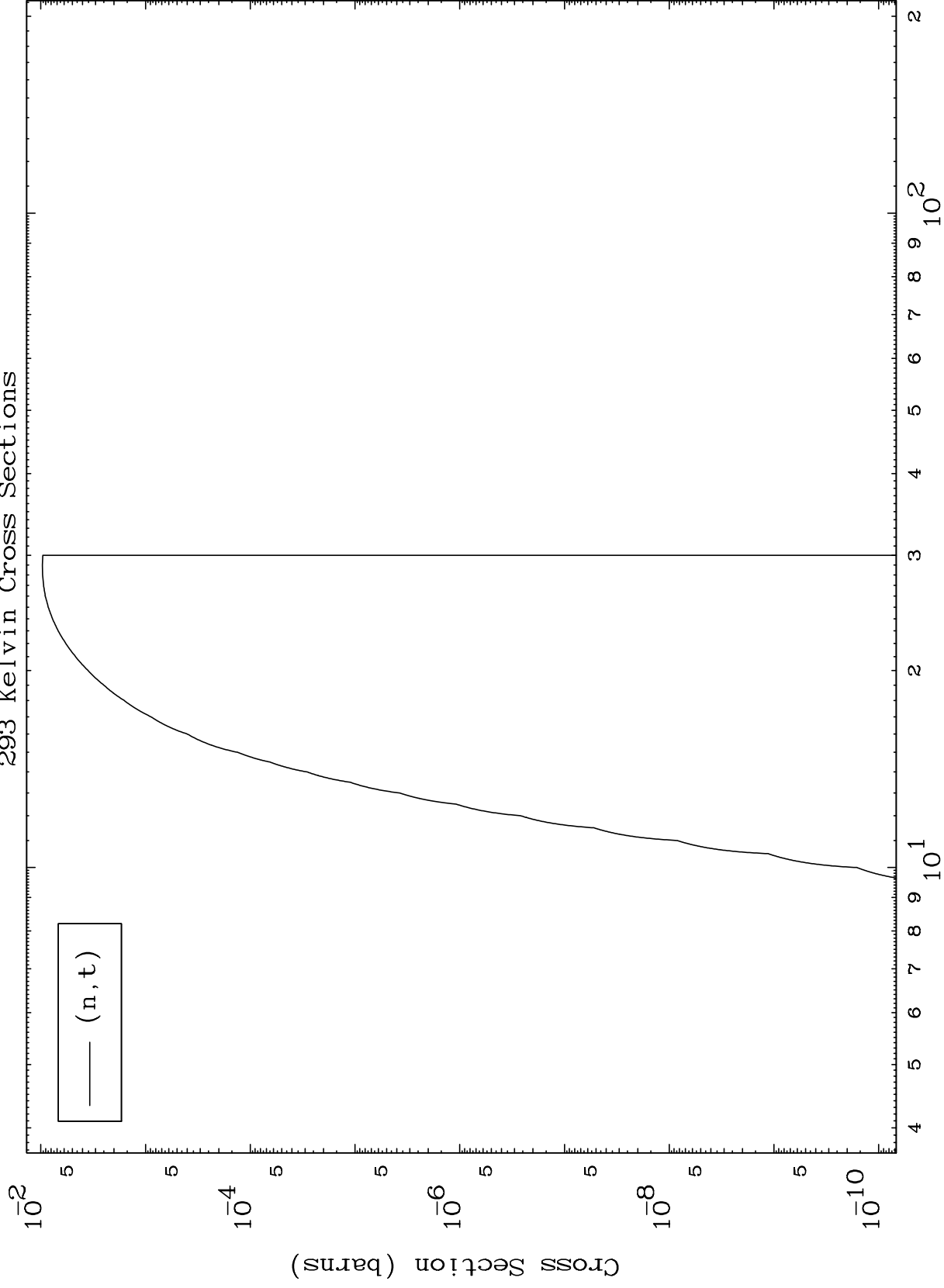
Incident Energy (MeV)

⁷³Ta-171m

MAT 7299

(n,t) Levels
293 Kelvin Cross Sections

⁷³Ta-171m



15

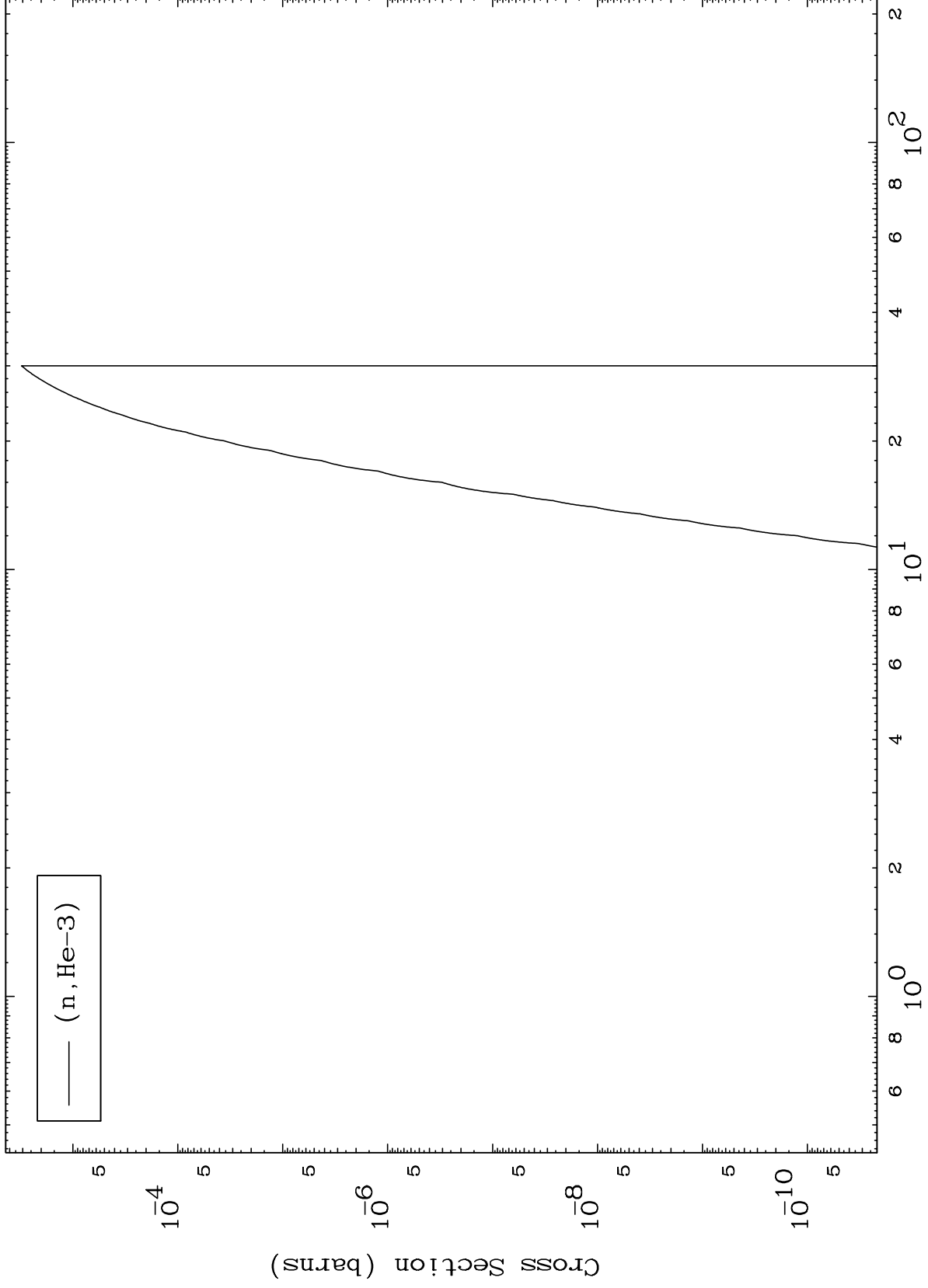
Incident Energy (MeV)

⁷³Ta-171m

MAT 7299

(n,He3) Levels
293 Kelvin Cross Sections

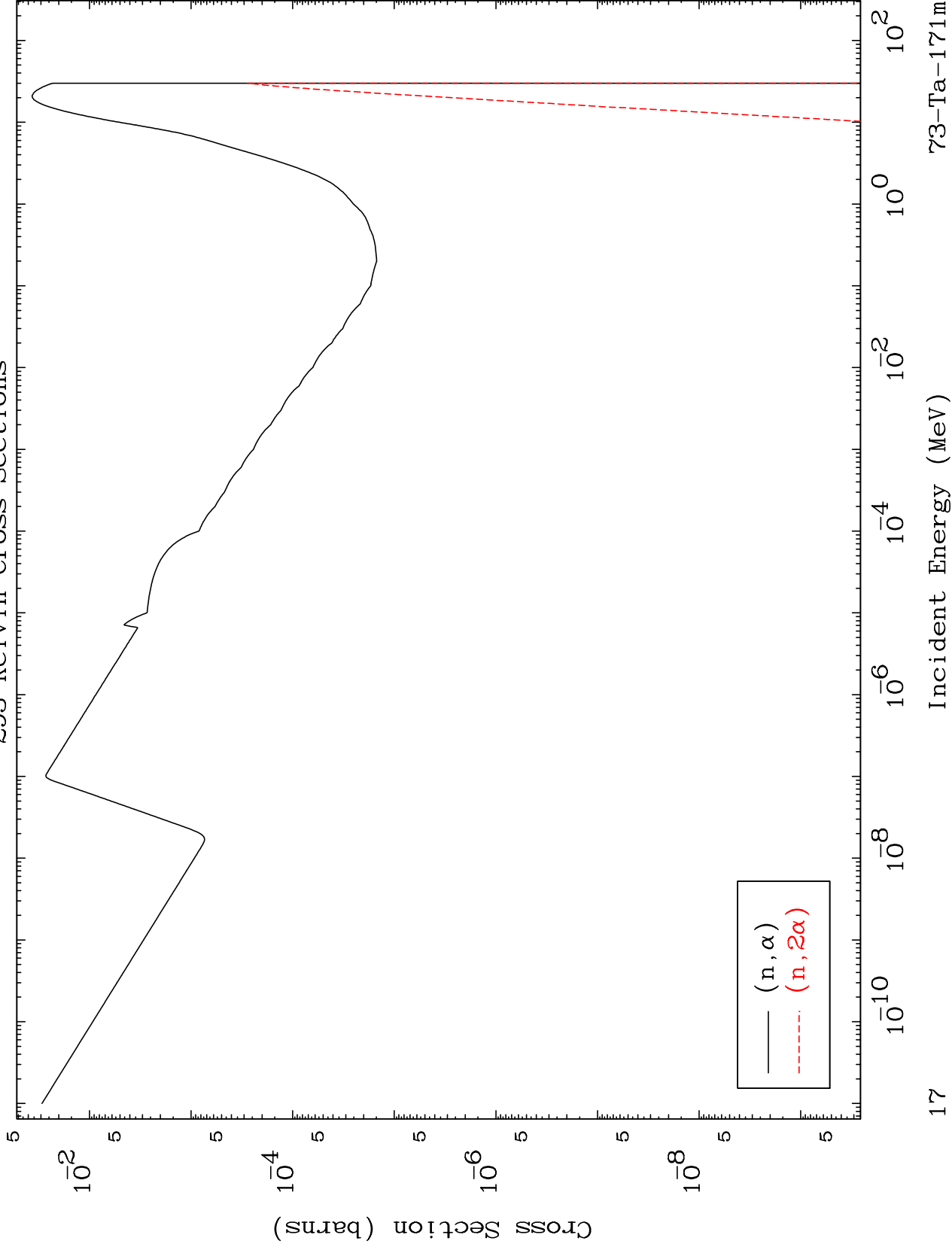
⁷³Ta-171m



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(n, α) Levels
293 Kelvin Cross Sections

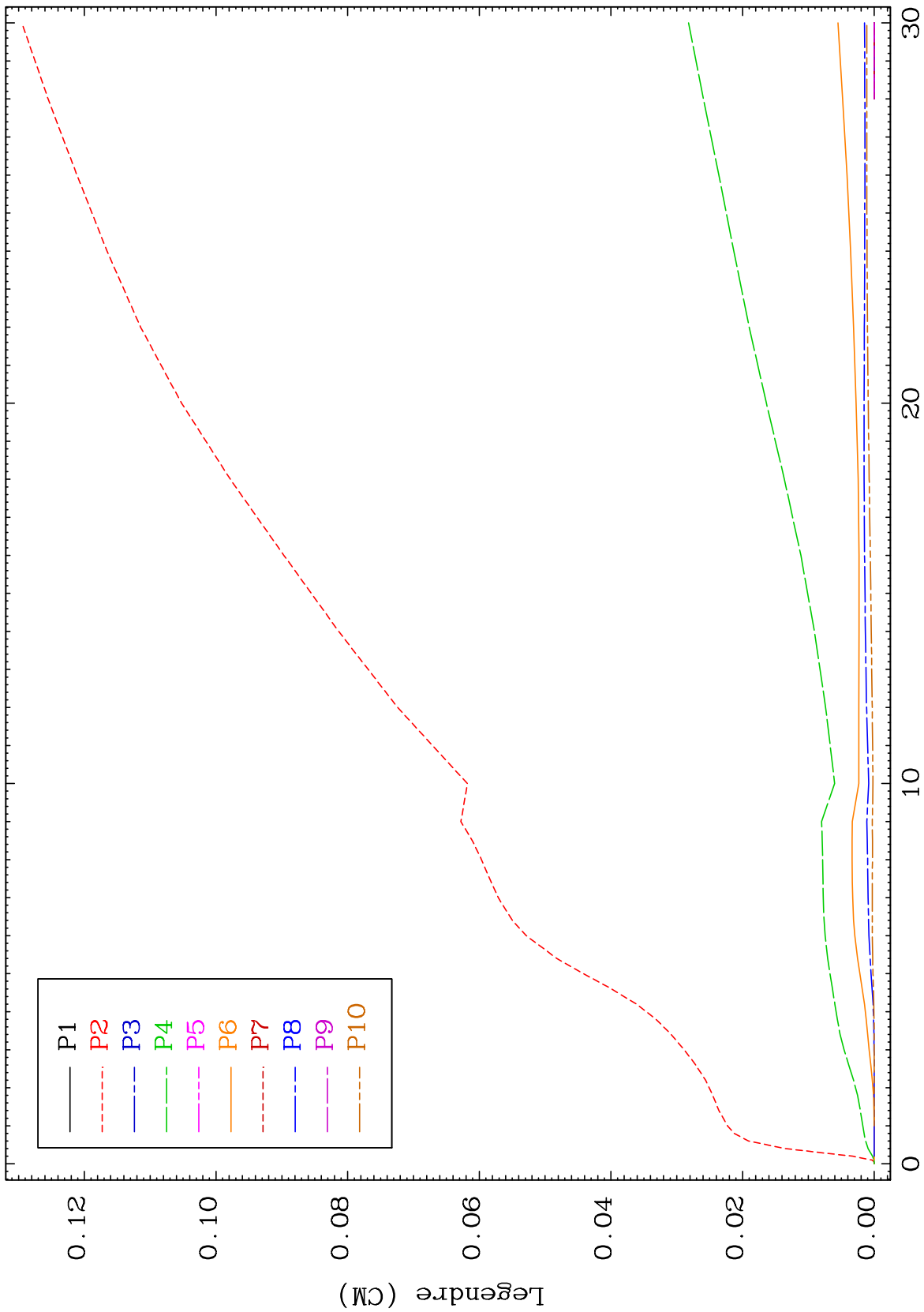
⁷³Ta-171m



MAT 7299

Elastic
Legendre Coefficients

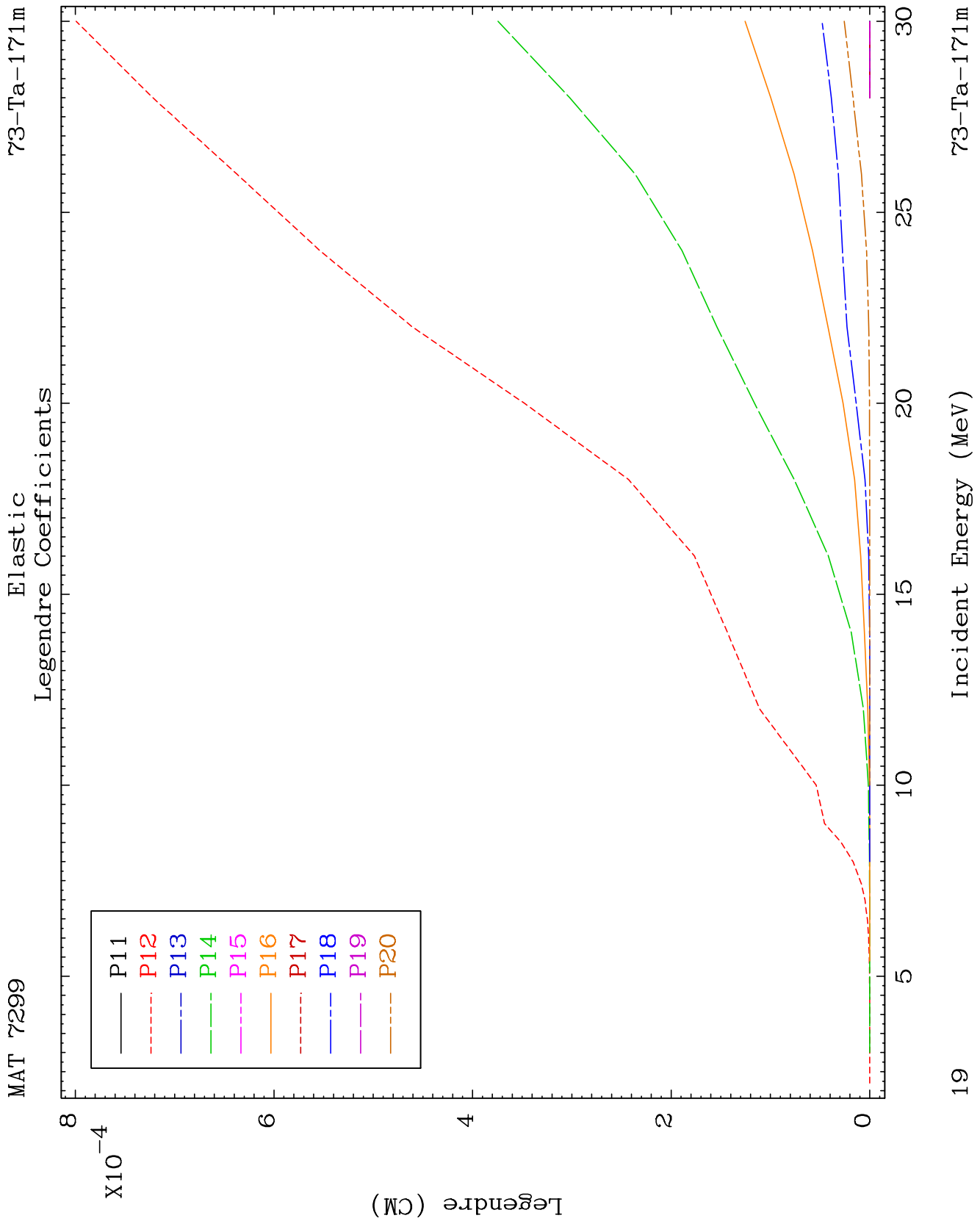
⁷³Ta-171m



18

Incident Energy (MeV)

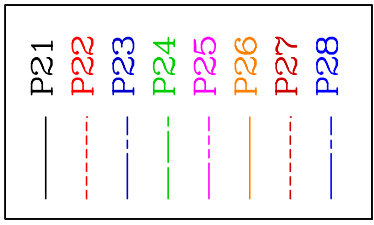
⁷³Ta-171m



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Elastic Legendre Coefficients

⁷³Ta-171m



$\times 10^{-6}$

1.5

Legendre (CM)

1.0

0.5

0.0

15

20

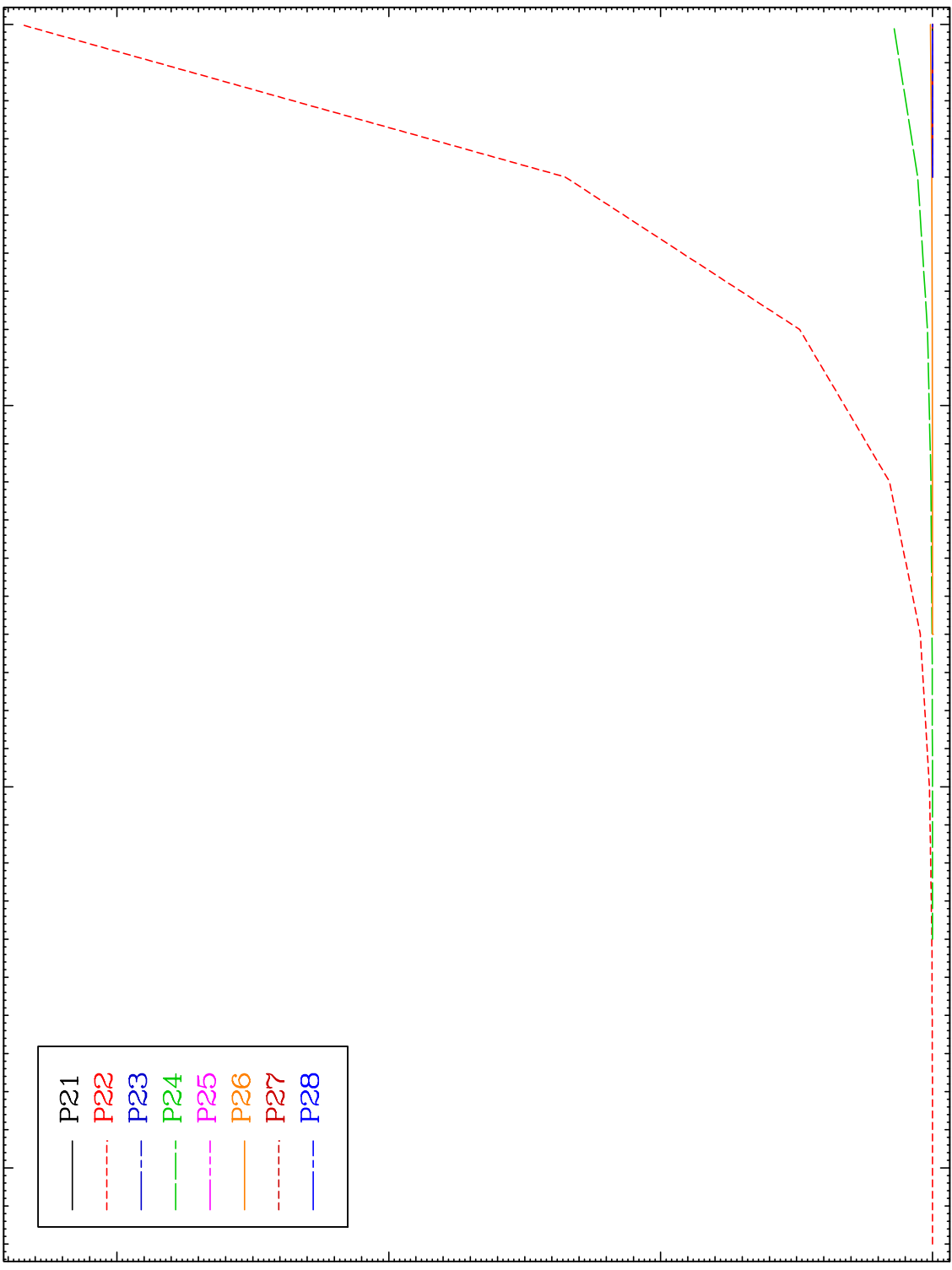
25

30

20

Incident Energy (MeV)

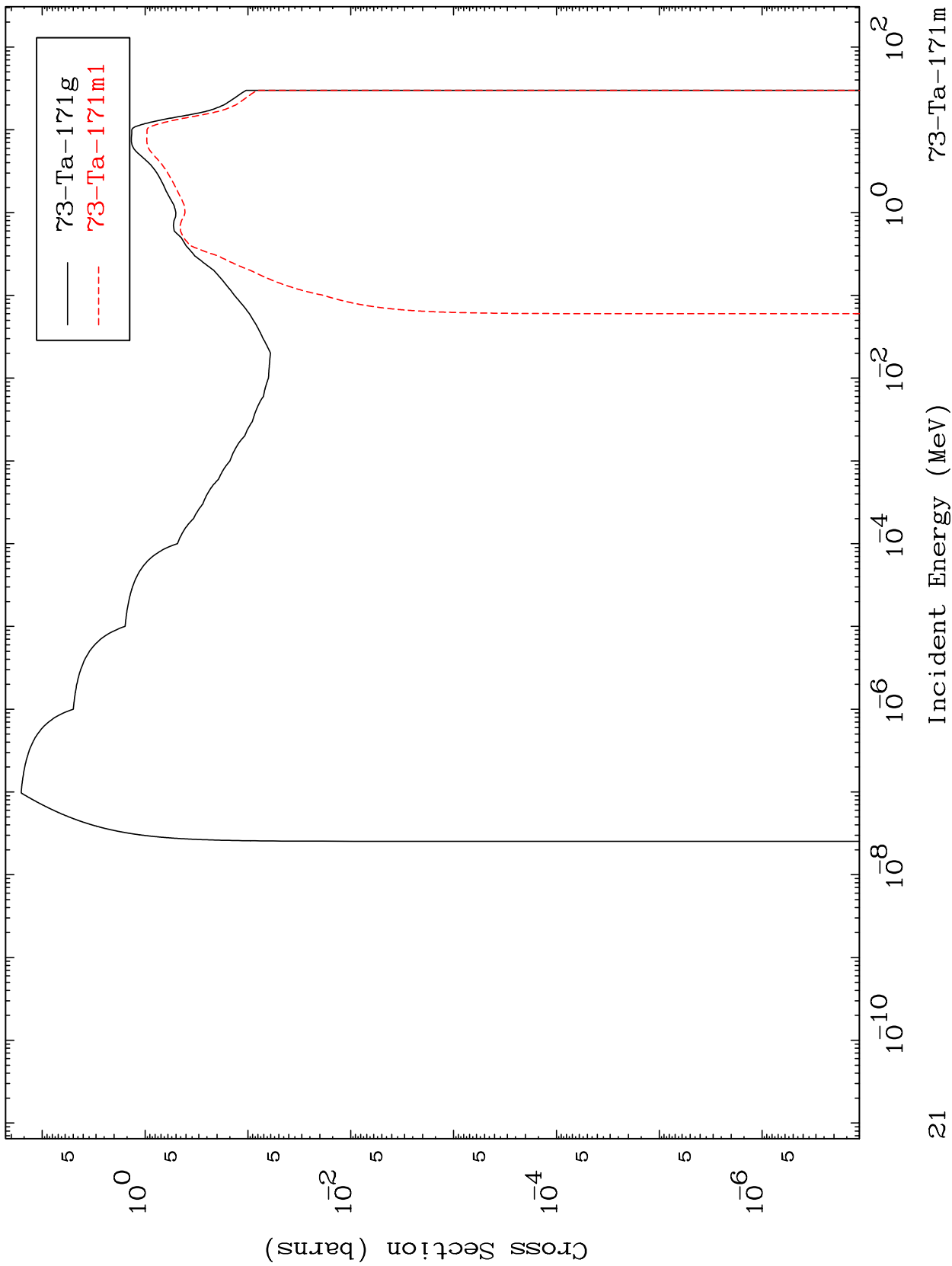
⁷³Ta-171m



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⁷³Ta-171m

Inelastic
Radionuclide Production Cross Section

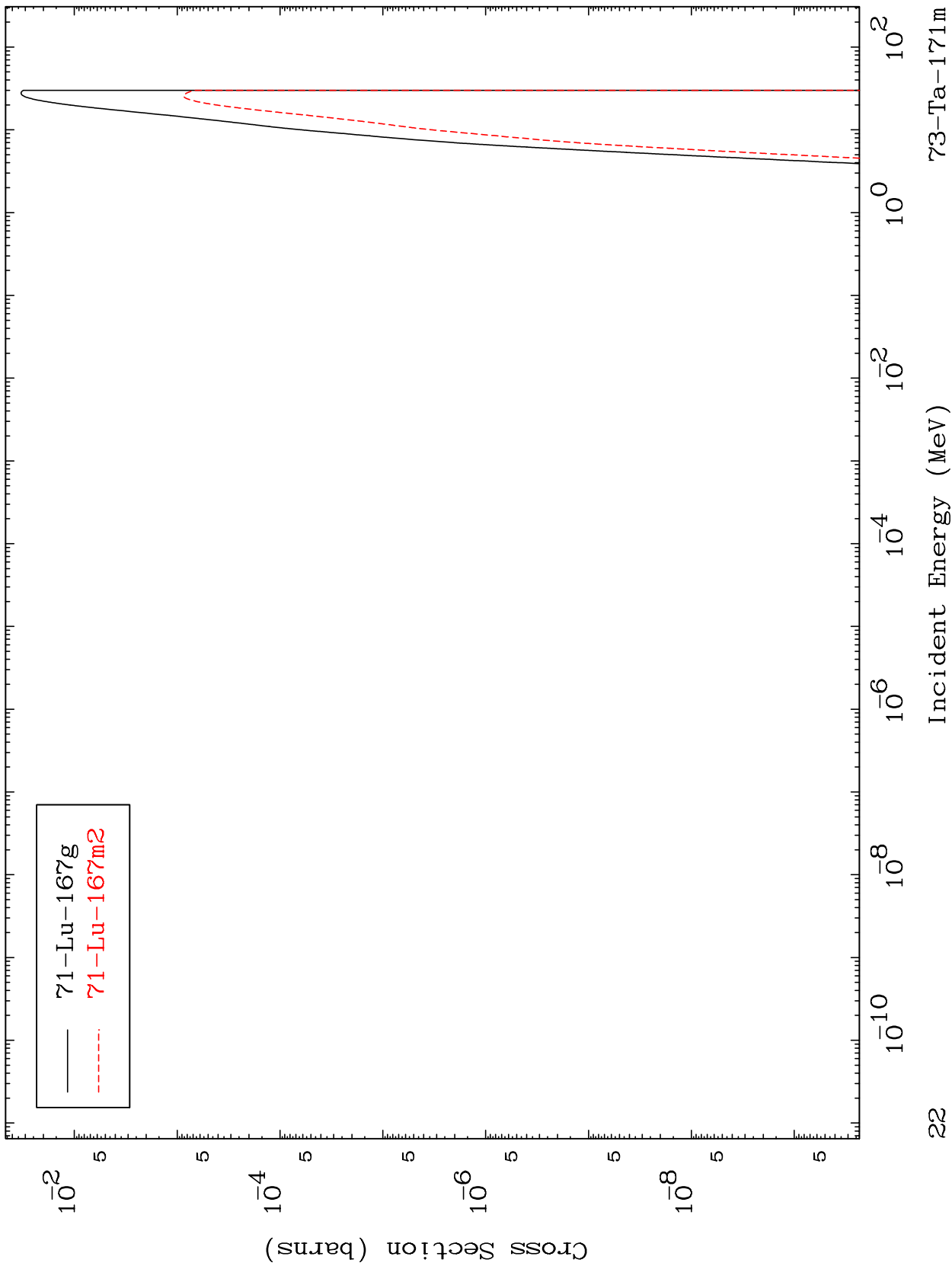


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$(n, n') \alpha$

$^{73}\text{Ta}-171\text{m}$

Radionuclide Production Cross Section



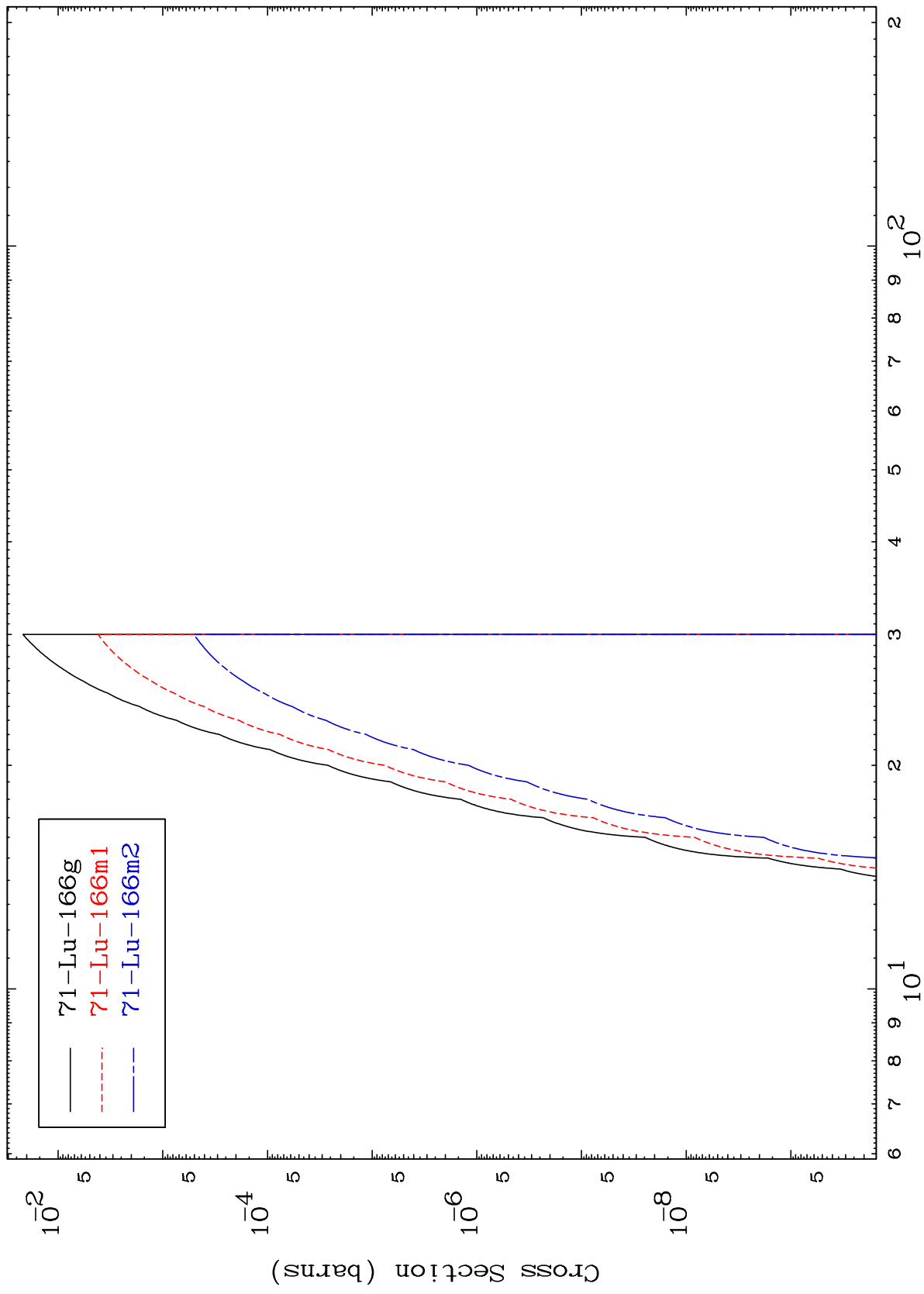
— $^{71}\text{Lu}-167\text{g}$
- - - $^{71}\text{Lu}-167\text{m}2$

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(n,2n) α

⁷³Ta-171m

Radionuclide Production Cross Section



23

Incident Energy (MeV)

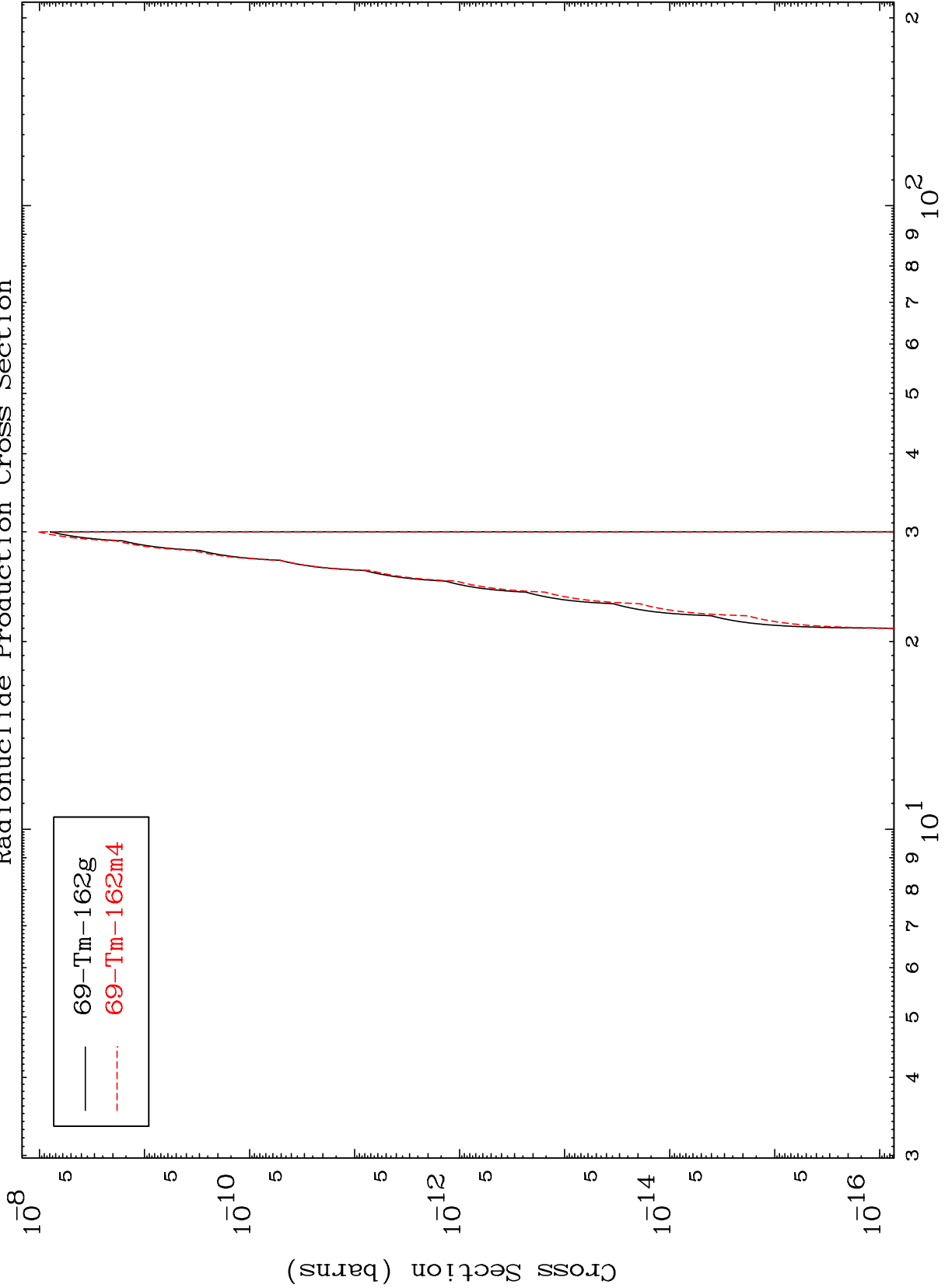
⁷³Ta-171m

MAT 7299

(n,2n) 2α

73-Ta-171m

Radionuclide Production Cross Section



69-Tm-162g
69-Tm-162m4

24

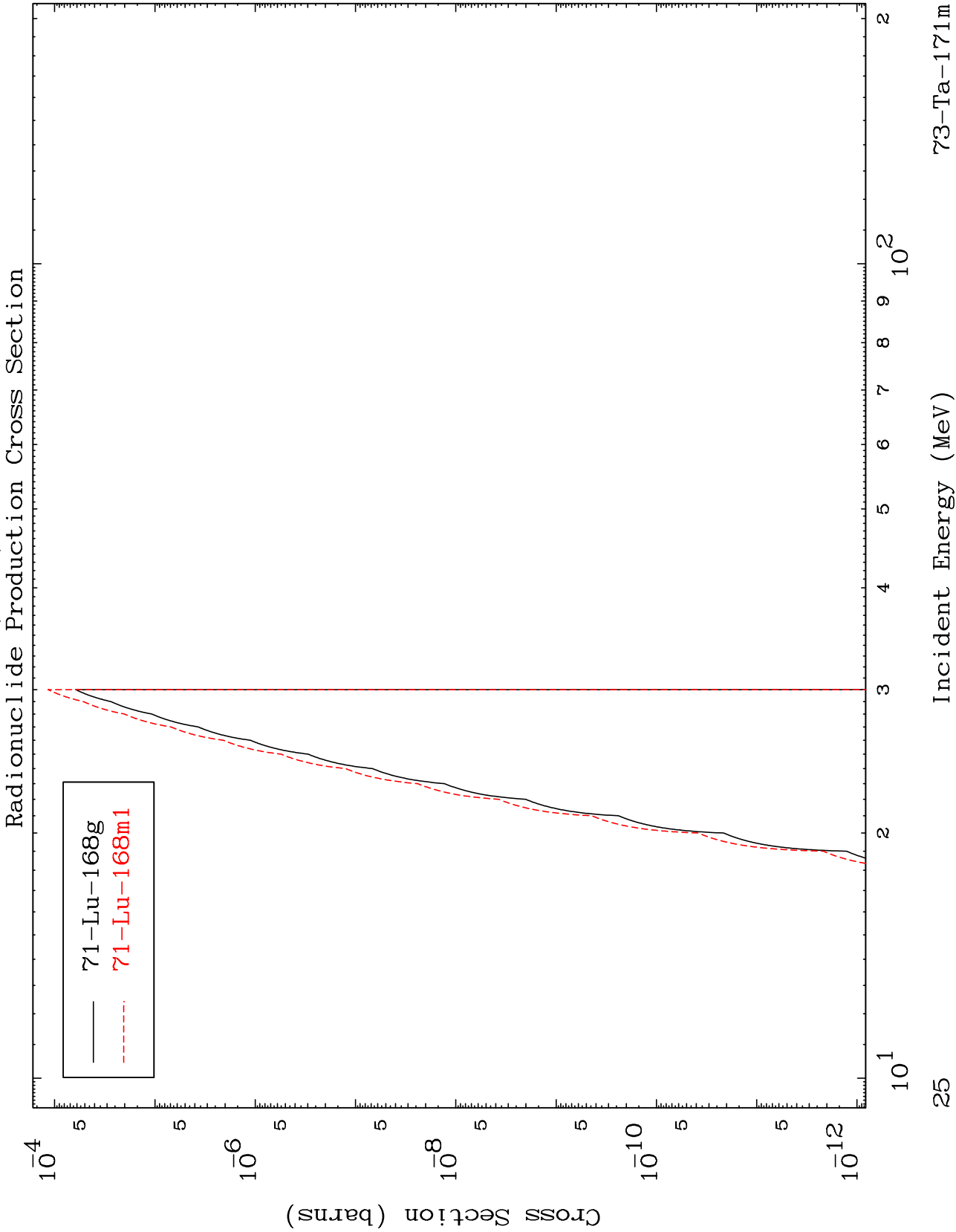
Incident Energy (MeV)

73-Ta-171m

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(n,n') He-3

73-Ta-171m

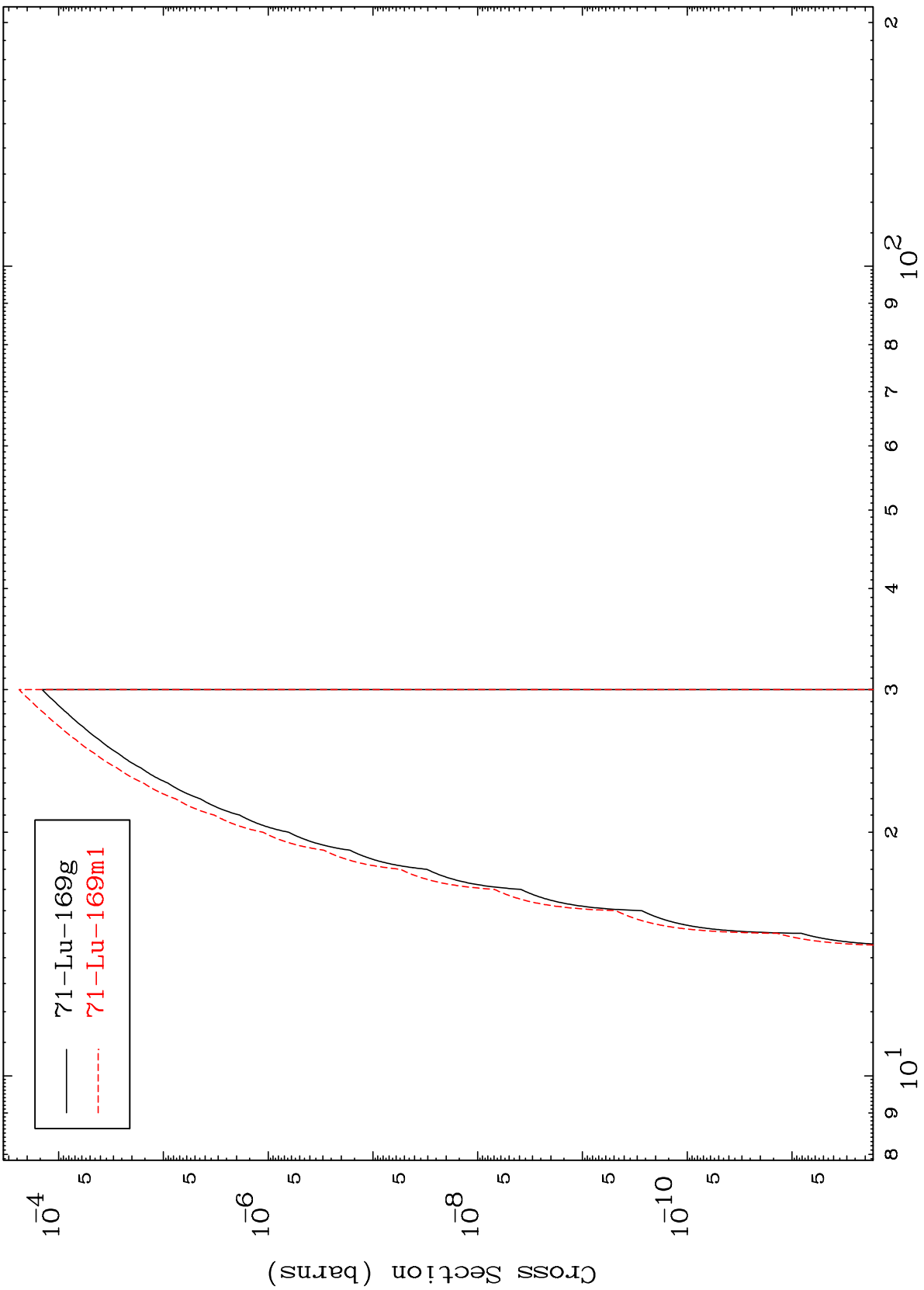


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(n,2n) p

⁷³Ta-171m

Radionuclide Production Cross Section



26

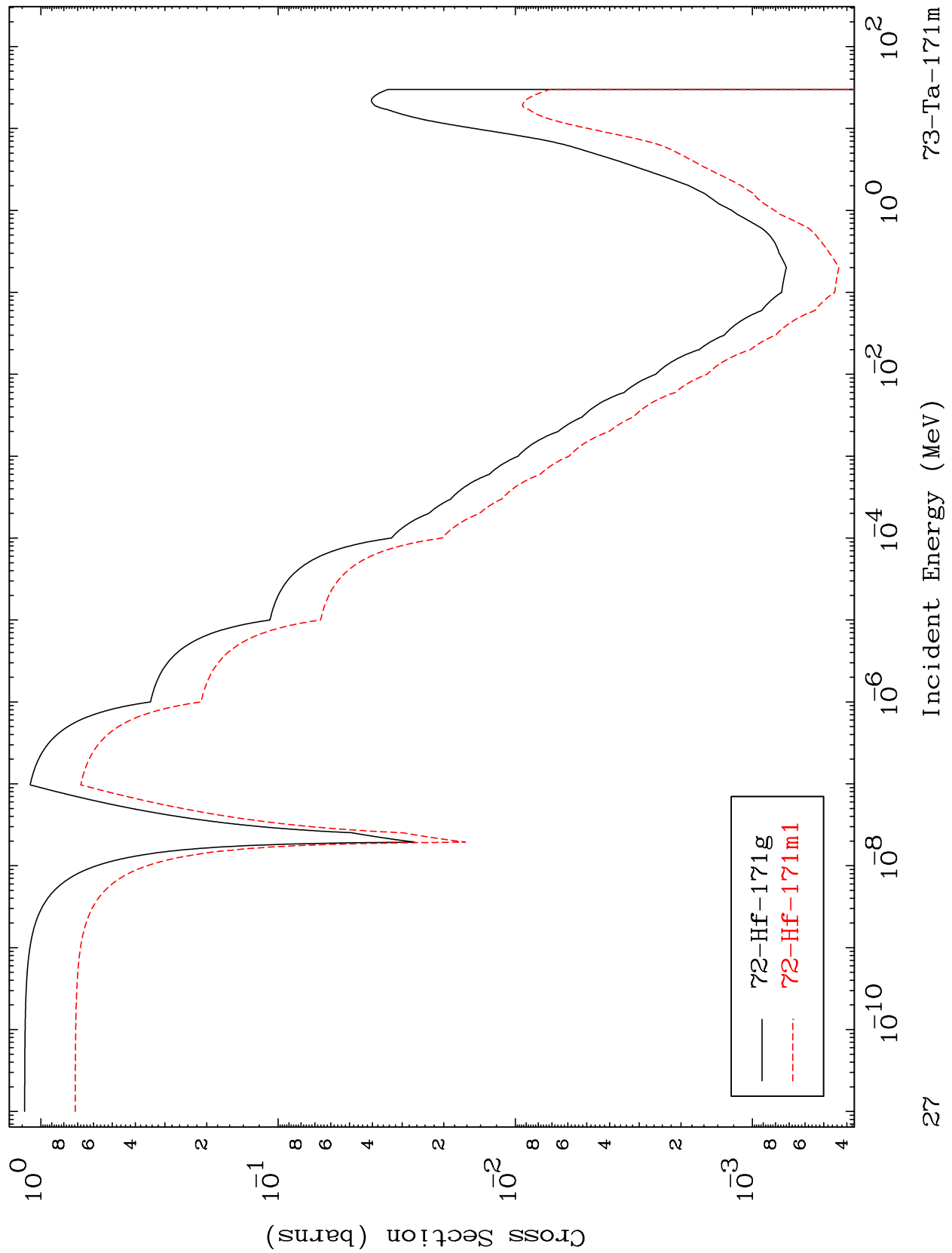
Incident Energy (MeV)

⁷³Ta-171m

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⁷³Ta-171m

(n,p)
Radionuclide Production Cross Section

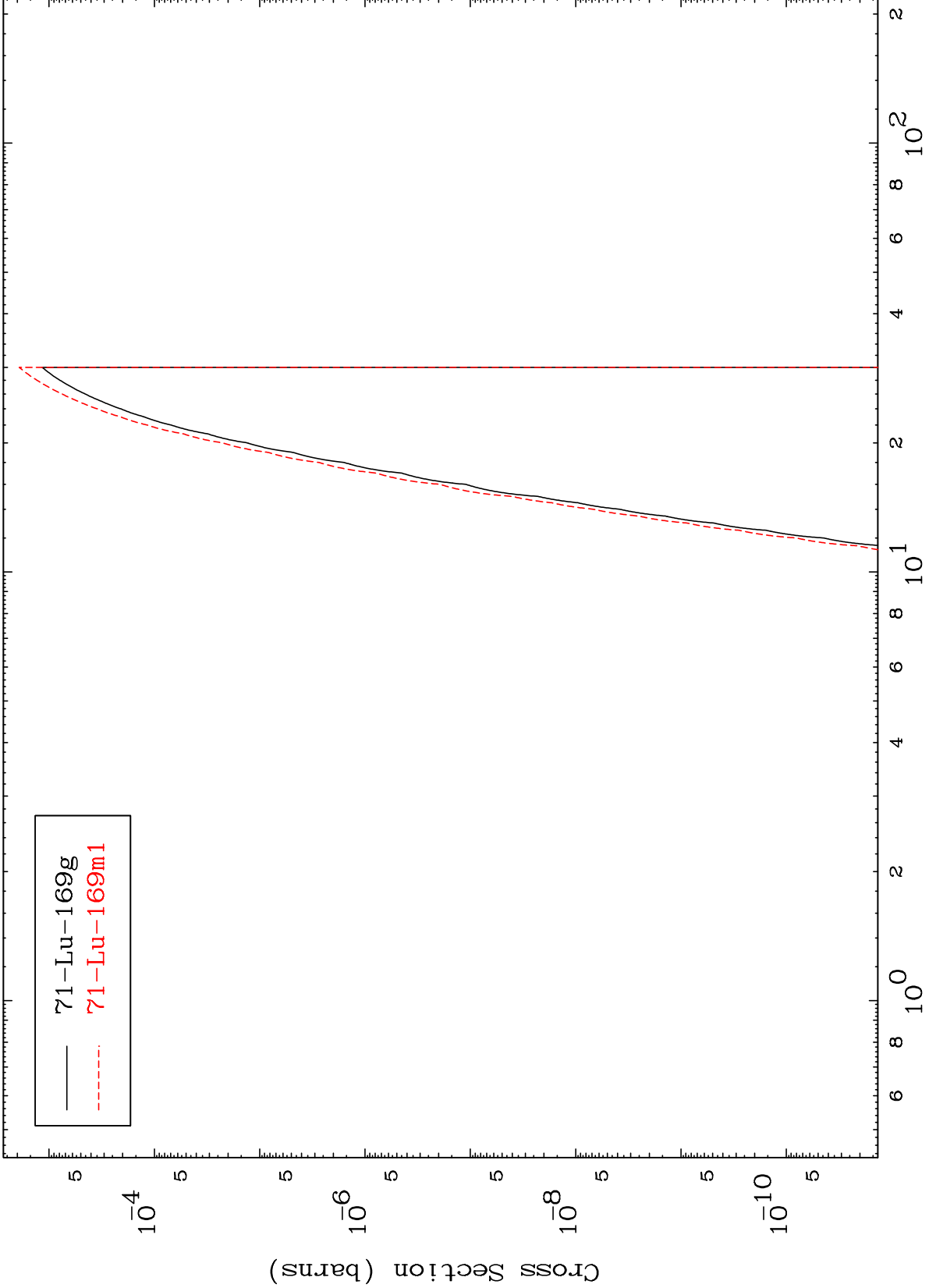


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(n,He-3)

⁷³Ta-171m

Radionuclide Production Cross Section



71-Lu-169g
71-Lu-169m1

Incident Energy (MeV)

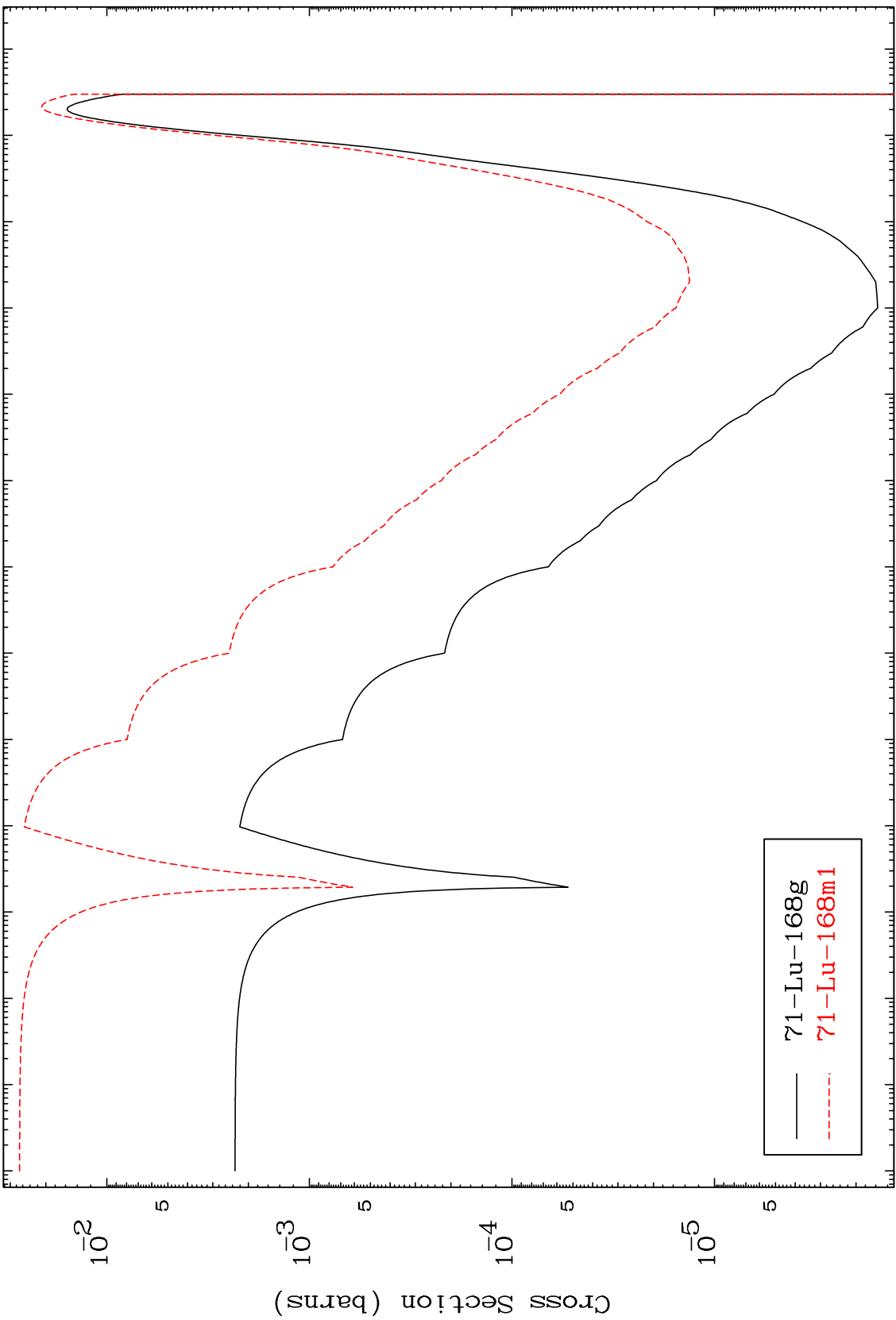
⁷³Ta-171m

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⁷³Ta-171m

Radionuclide Production Cross Section

(n, α)



⁷³Ta-171m

Incident Energy (MeV)

10⁻¹⁰ 10⁻⁸ 10⁻⁶ 10⁻⁴ 10⁻² 10⁰ 10²

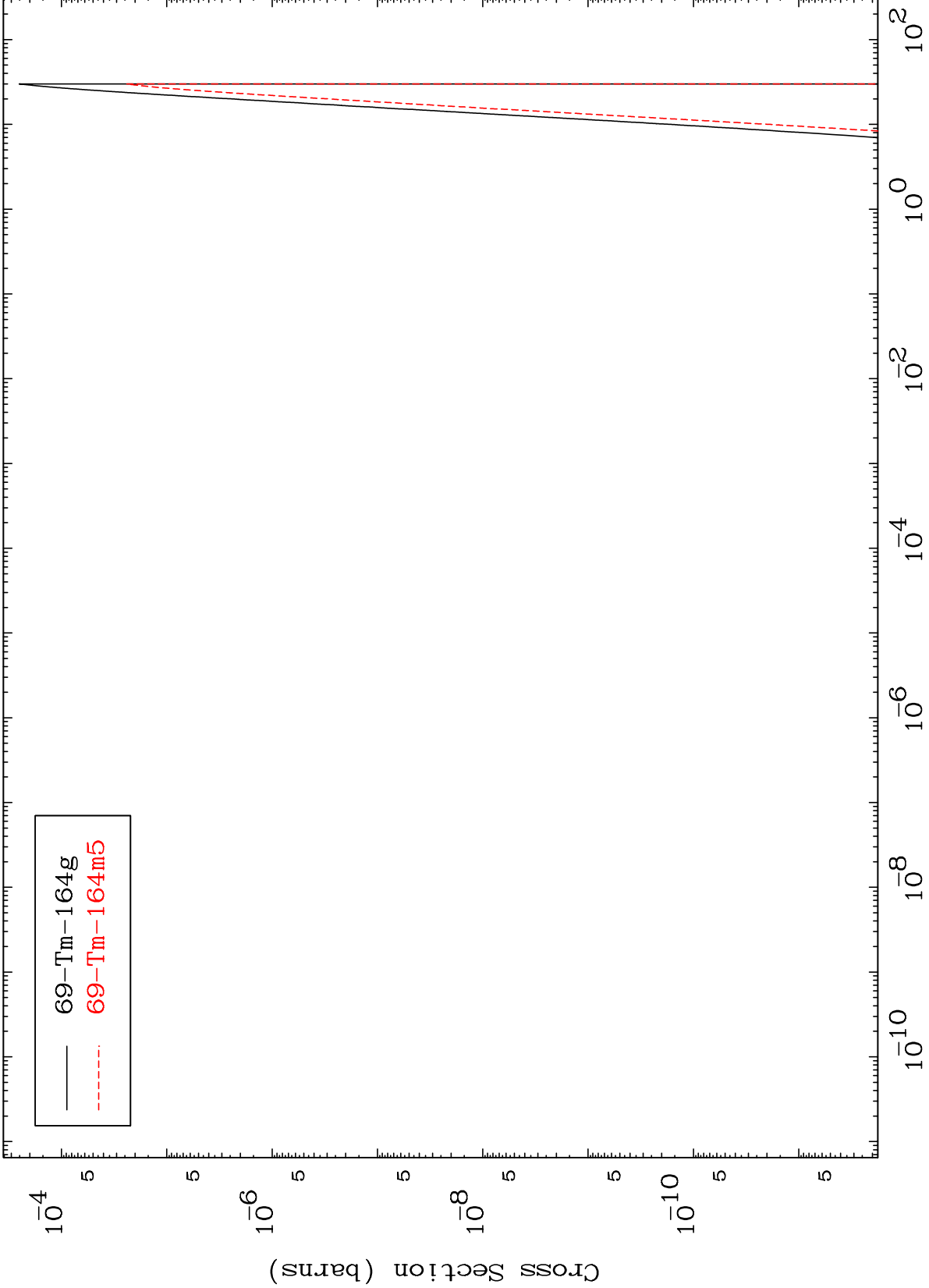
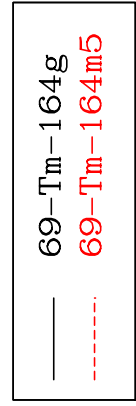
— 71-Lu-168g
- - - 71-Lu-168m1

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(n,2α)

⁷³Ta-171m

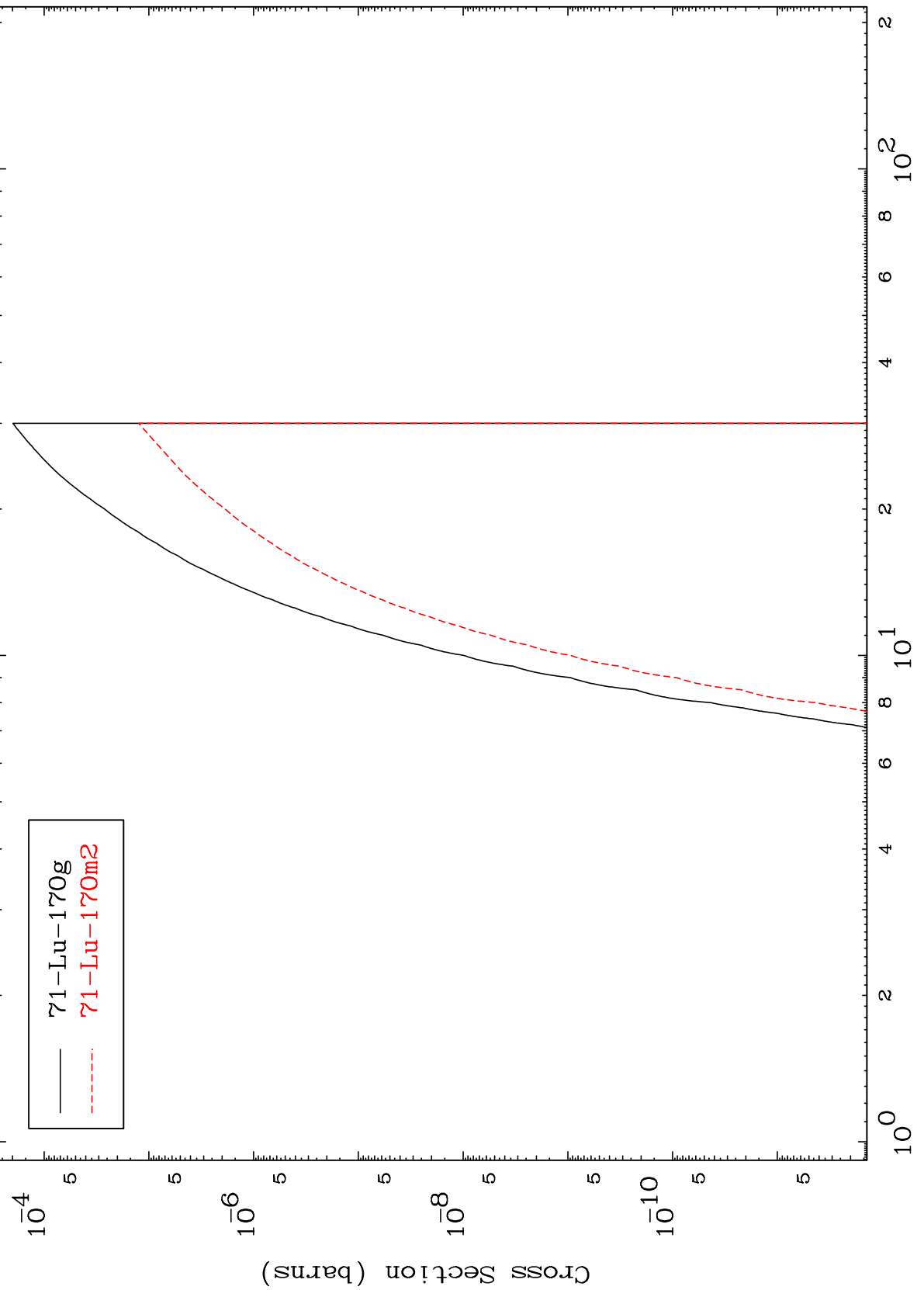
Radionuclide Production Cross Section



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73-Ta-171m

(n,2p)
Radionuclide Production Cross Section



31

Incident Energy (MeV)

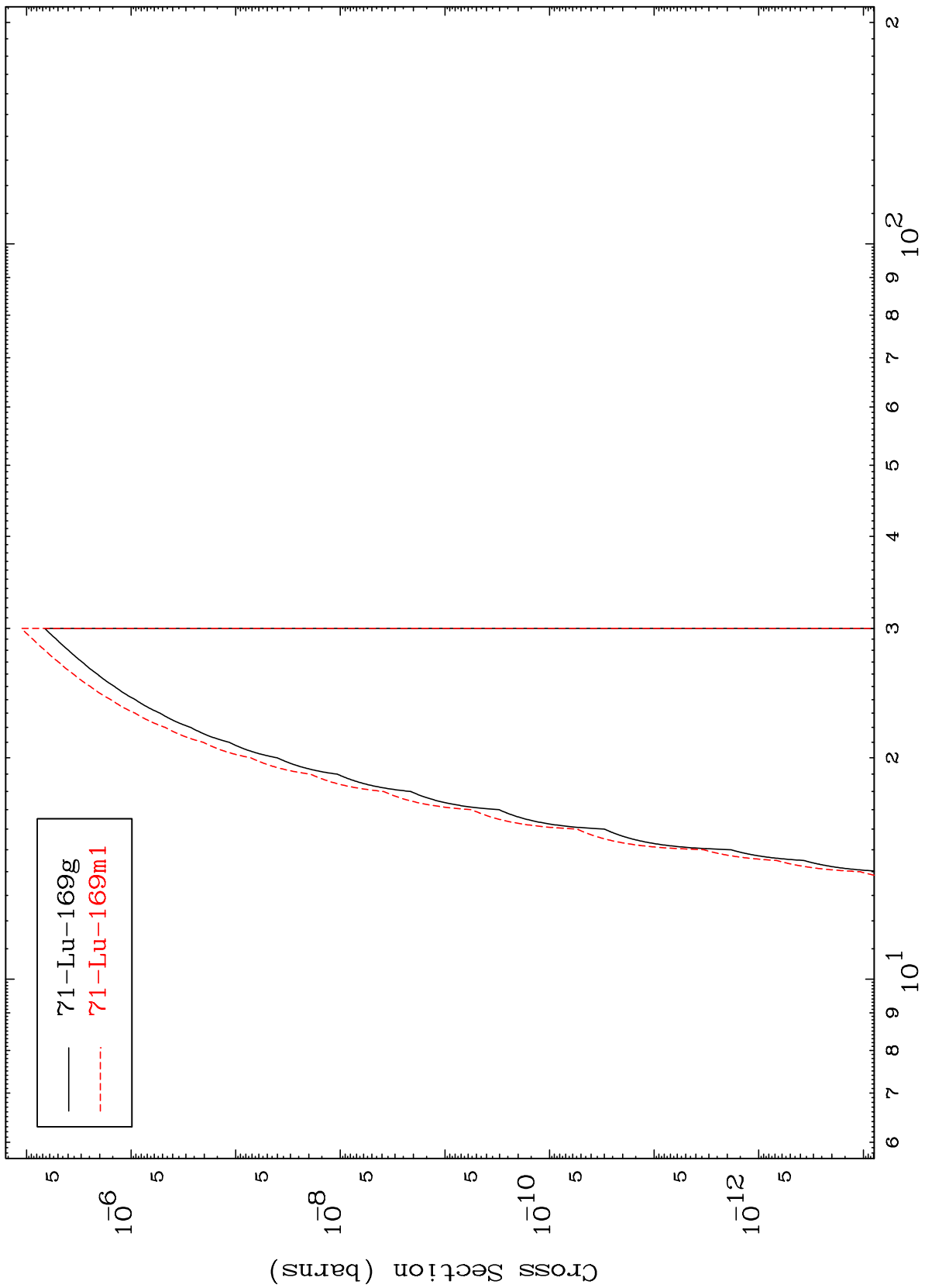
73-Ta-171m

MAT 7299

(n,p) d

⁷³Ta-171m

Radionuclide Production Cross Section



32

Incident Energy (MeV)

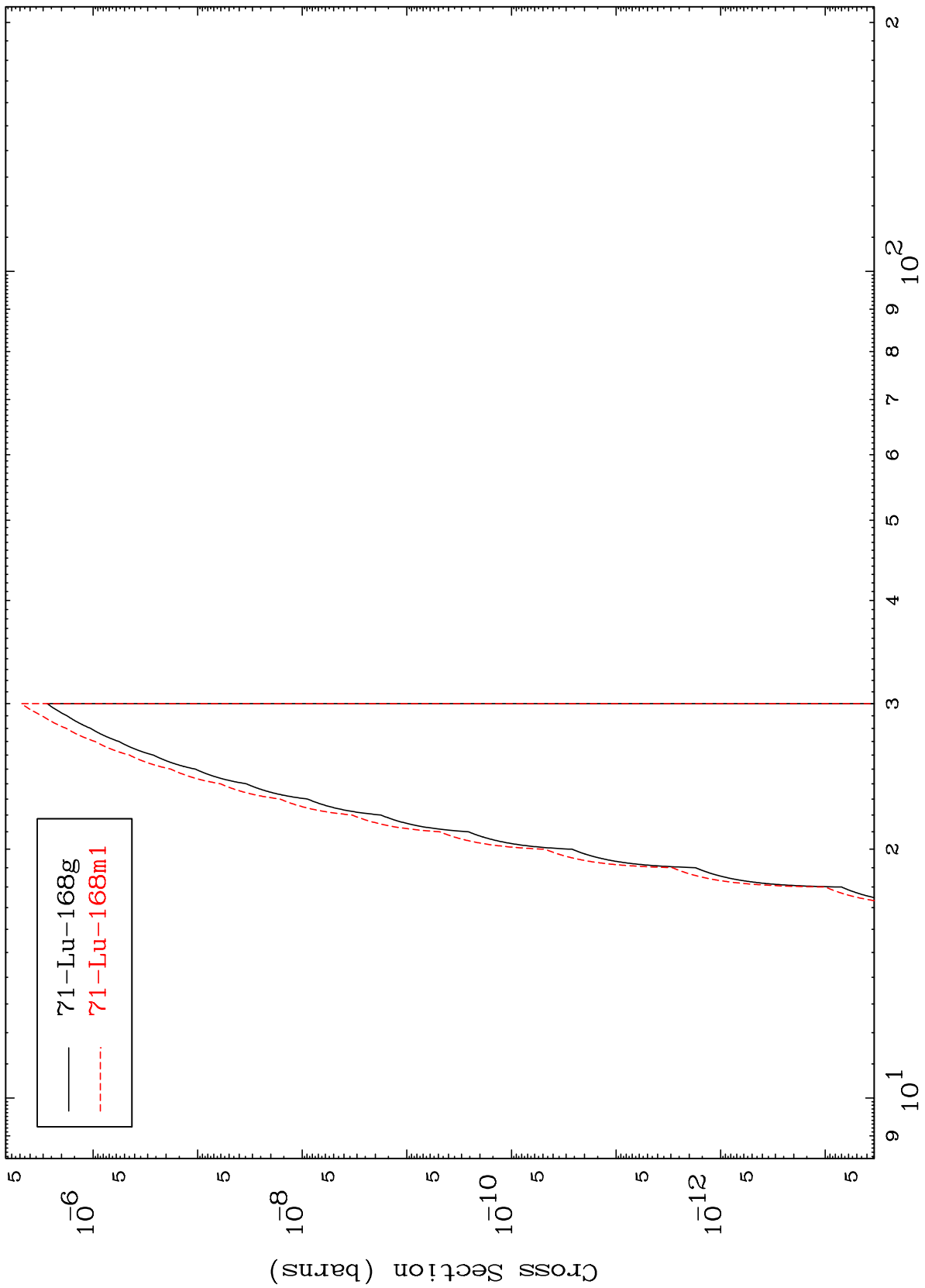
⁷³Ta-171m

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(n,p) t

⁷³Ta-171m

Radionuclide Production Cross Section



33

Incident Energy (MeV)

⁷³Ta-171m