

Program EVALPLOT
(Version 2021-1)

by

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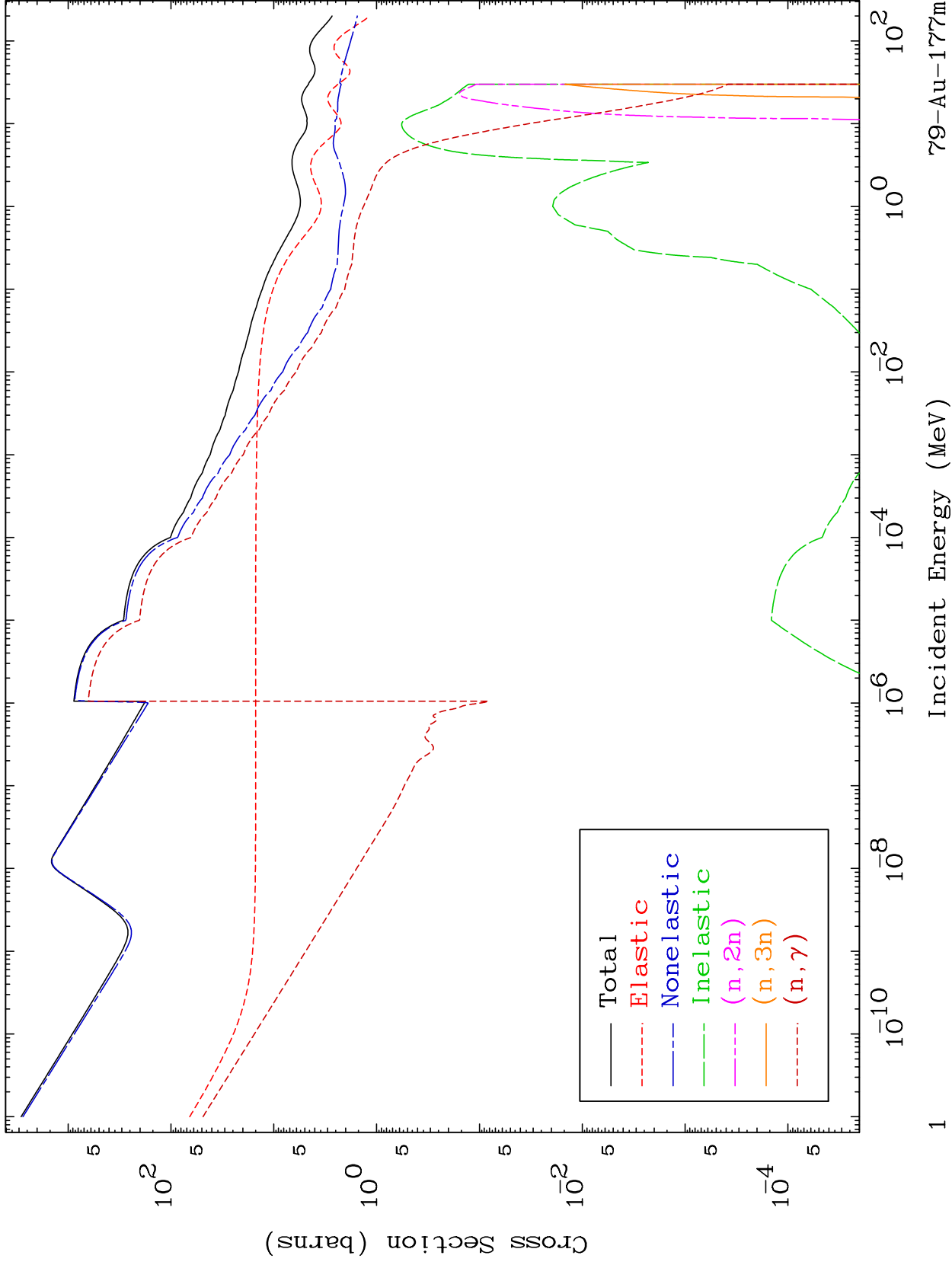
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7866

Neutron Major
293 Kelvin Cross Sections

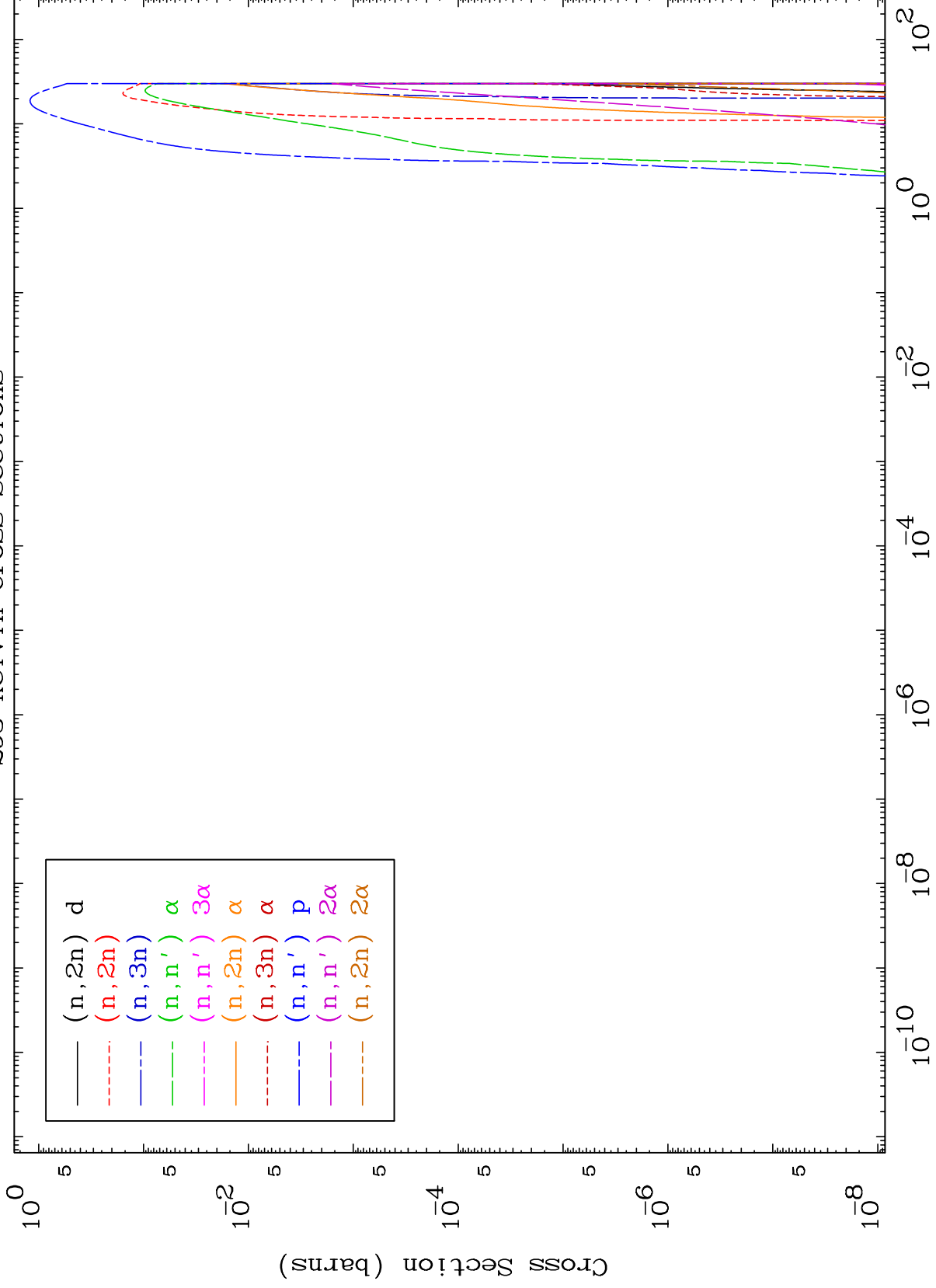
⁷⁹Au-177m



MAT 7866

Neutron Absorption
293 Kelvin Cross Sections

79-Au-177m



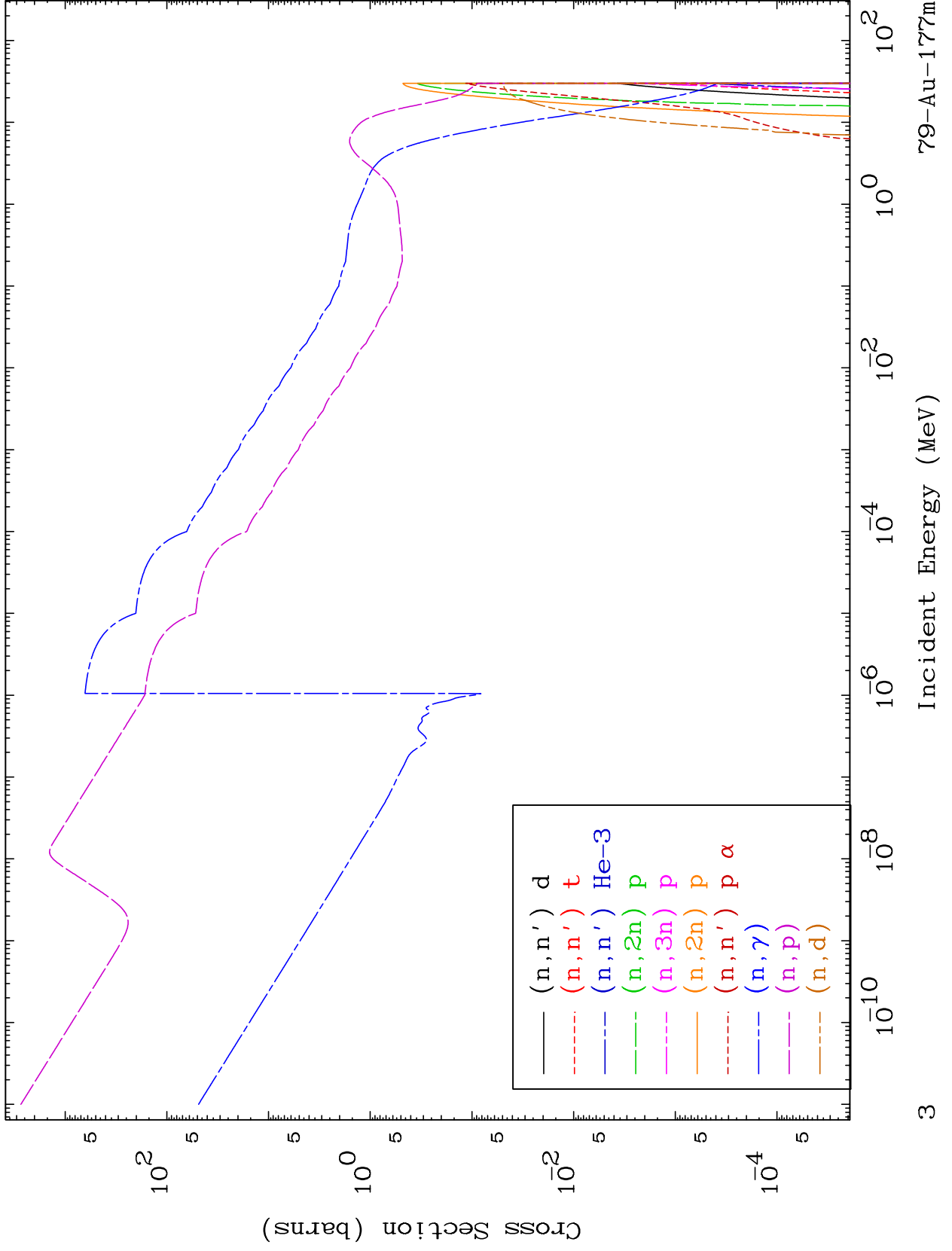
79-Au-177m

Incident Energy (MeV)

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Neutron Absorption
293 Kelvin Cross Sections

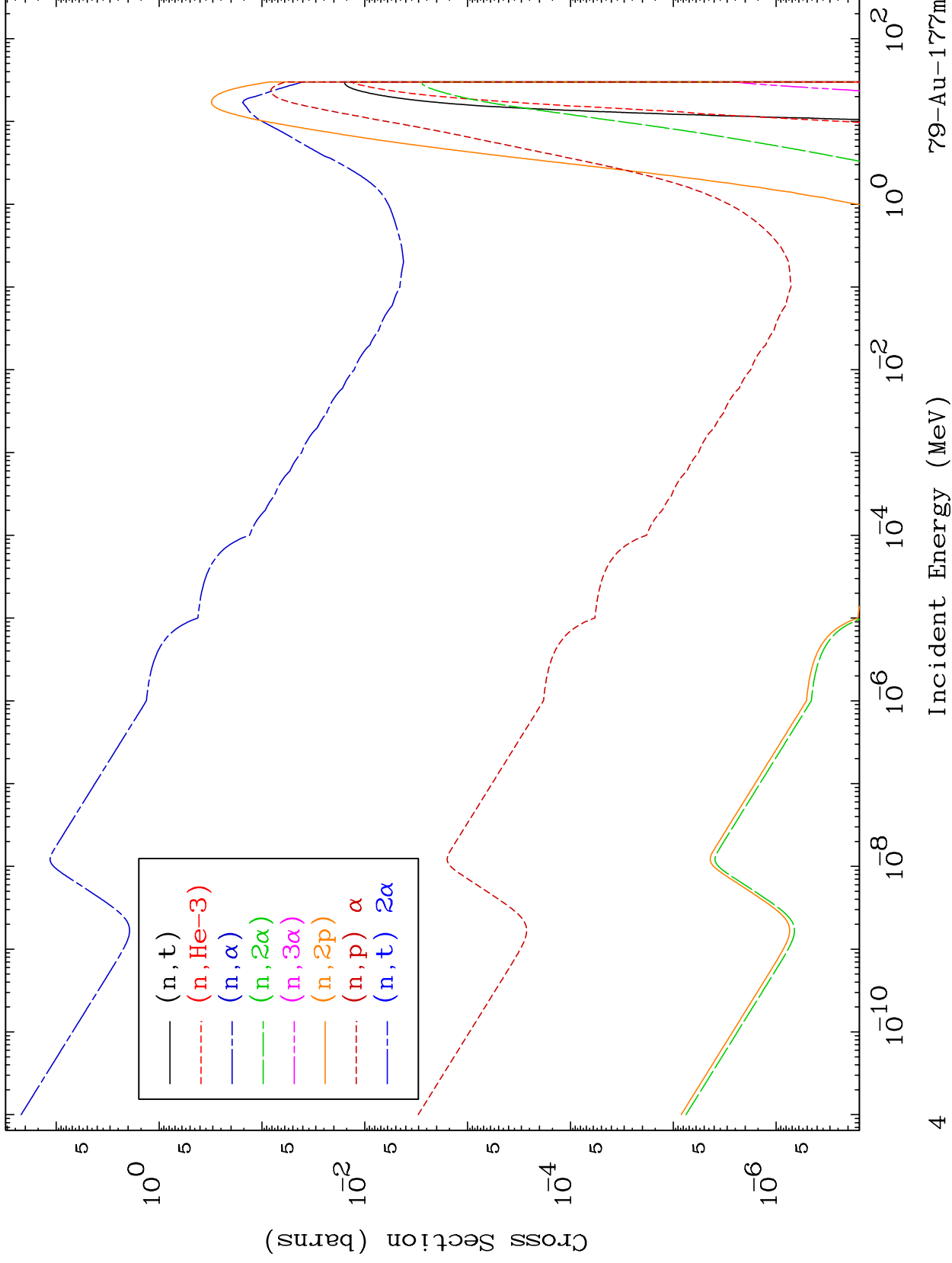
⁷⁹Au-177m

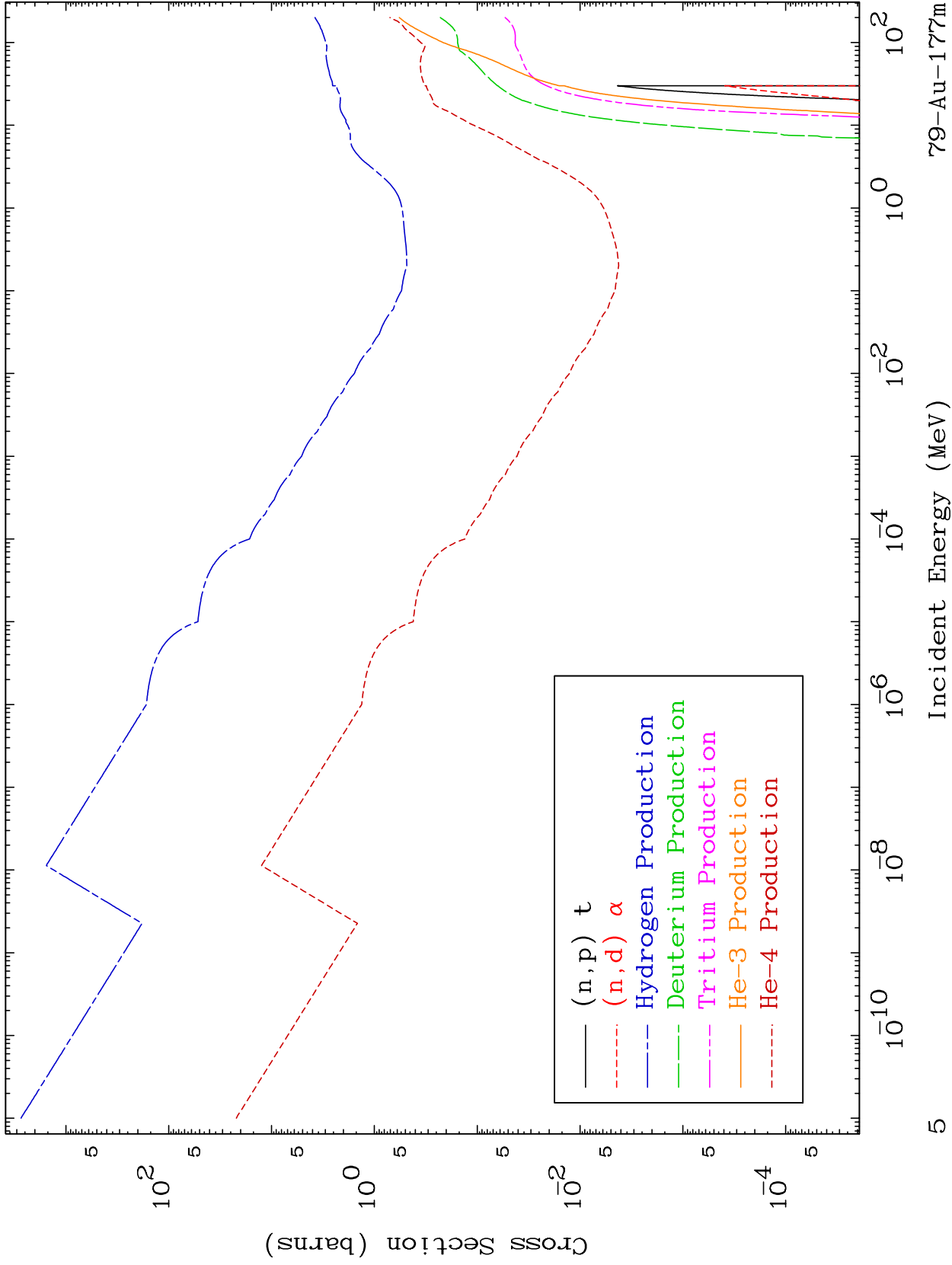


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Neutron Absorption
293 Kelvin Cross Sections

⁷⁹Au-177m

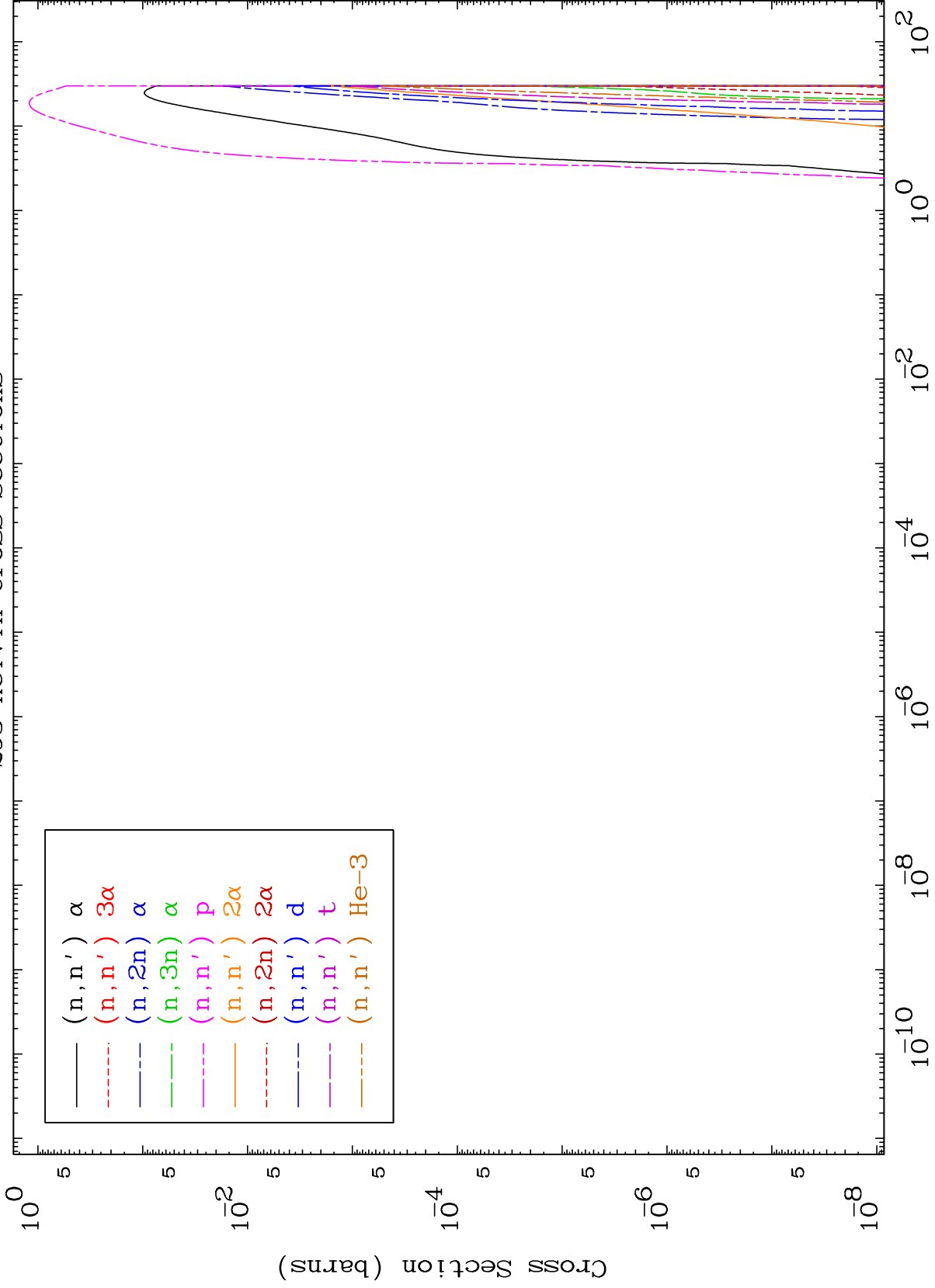




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Charged Particle
293 Kelvin Cross Sections

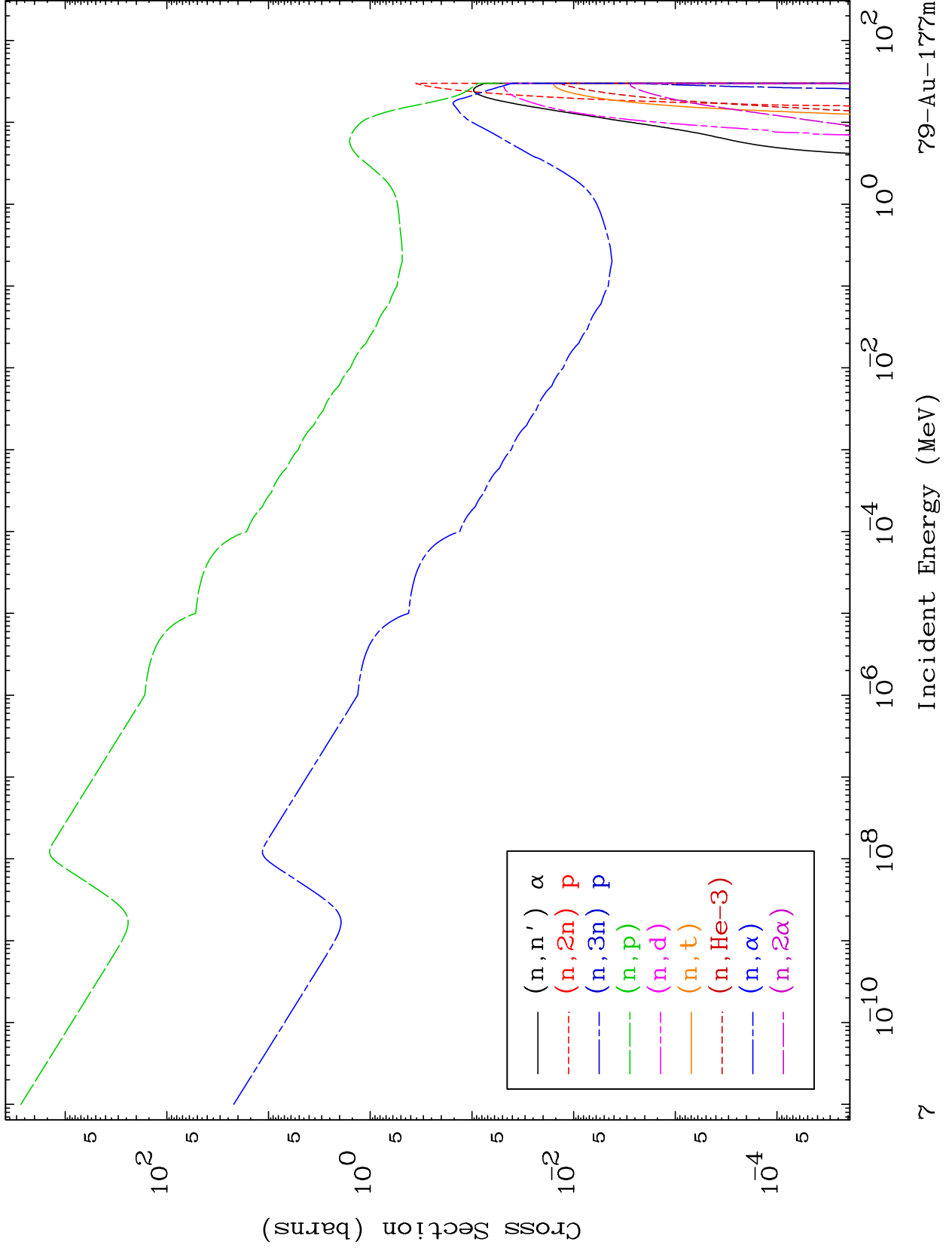
79-Au-177m



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Charged Particle
293 Kelvin Cross Sections

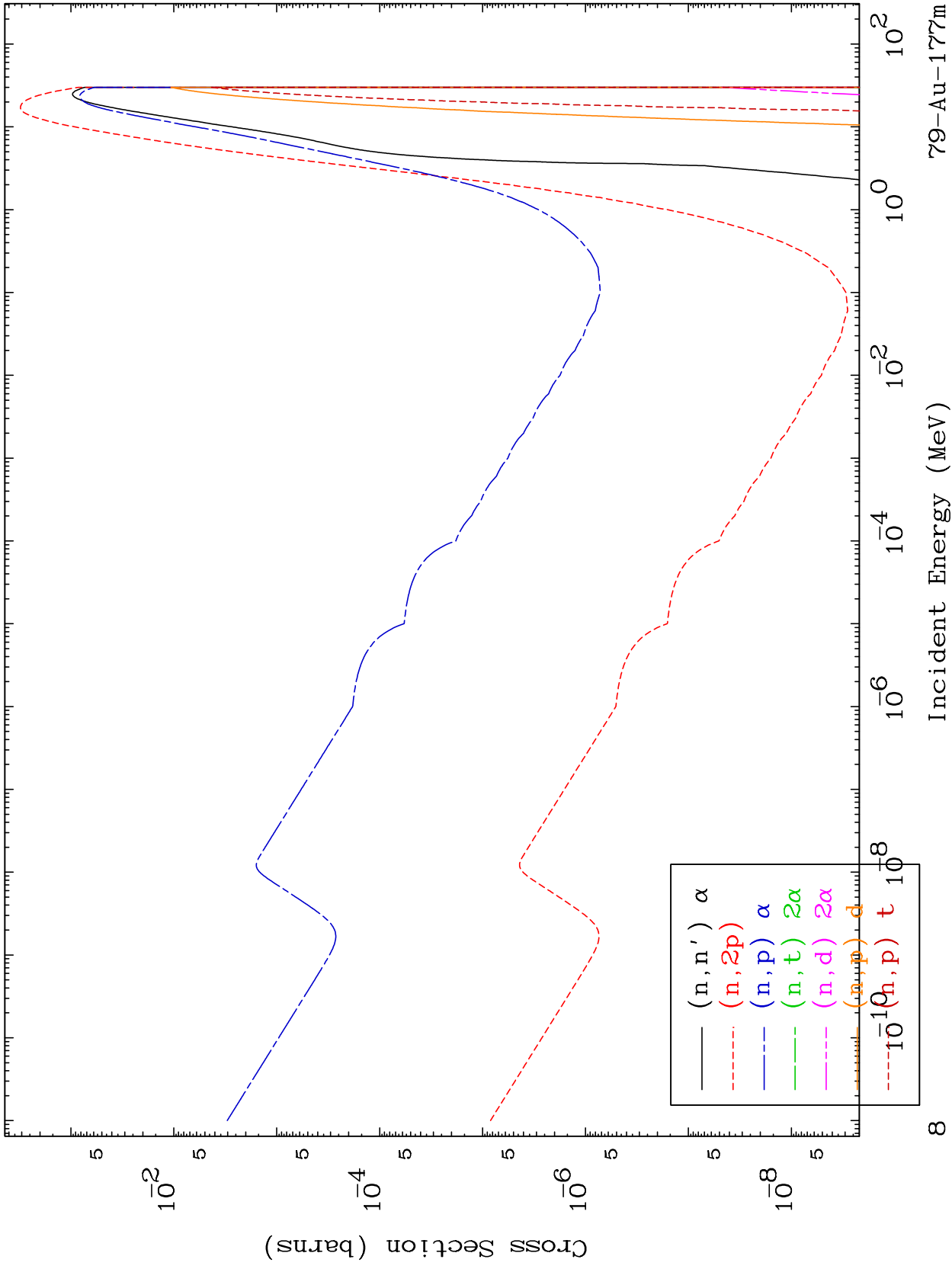
⁷⁹Au-177m



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Charged Particle
293 Kelvin Cross Sections

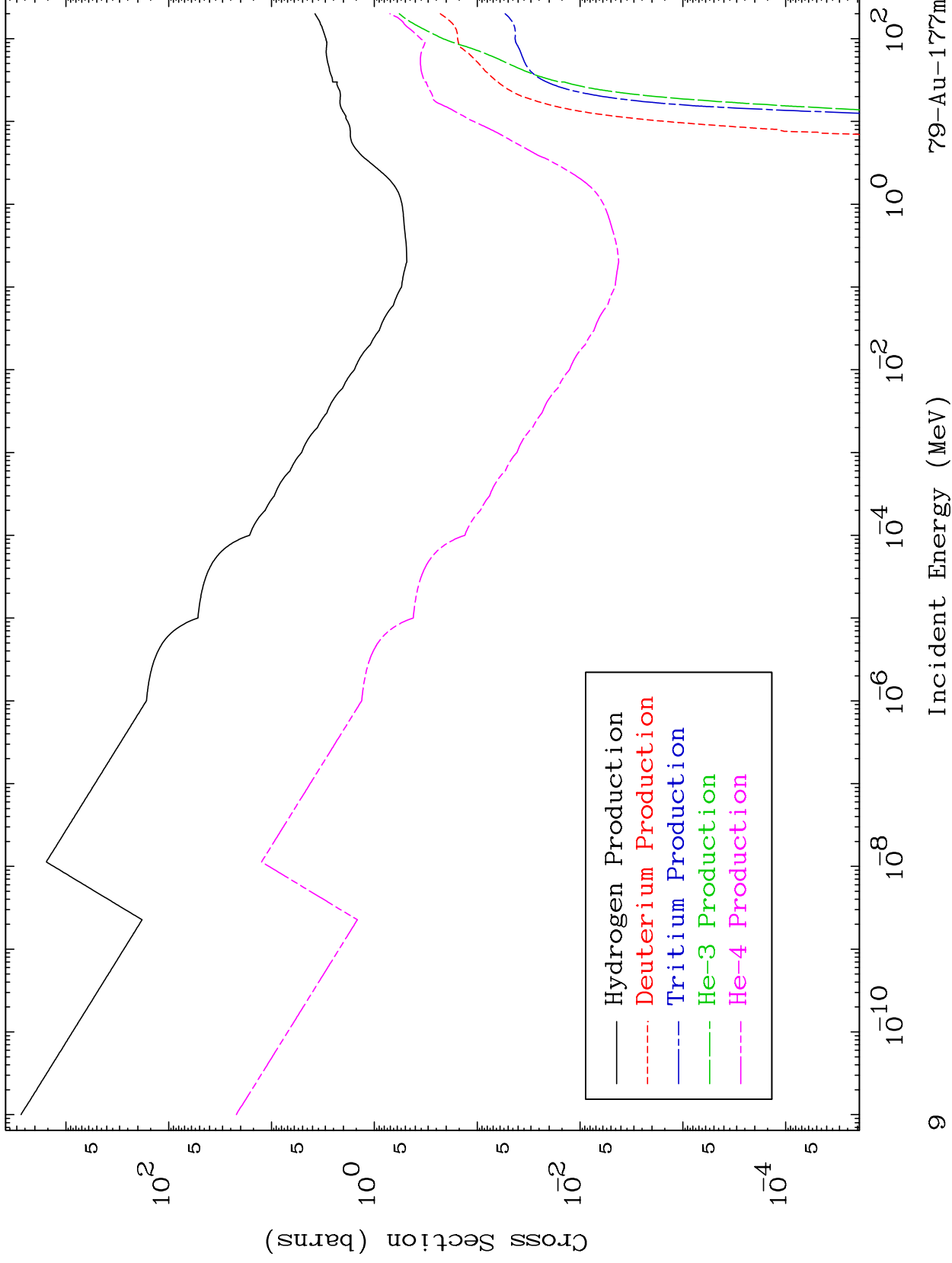
⁷⁹Au-177m



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Particle Production
293 Kelvin Cross Sections

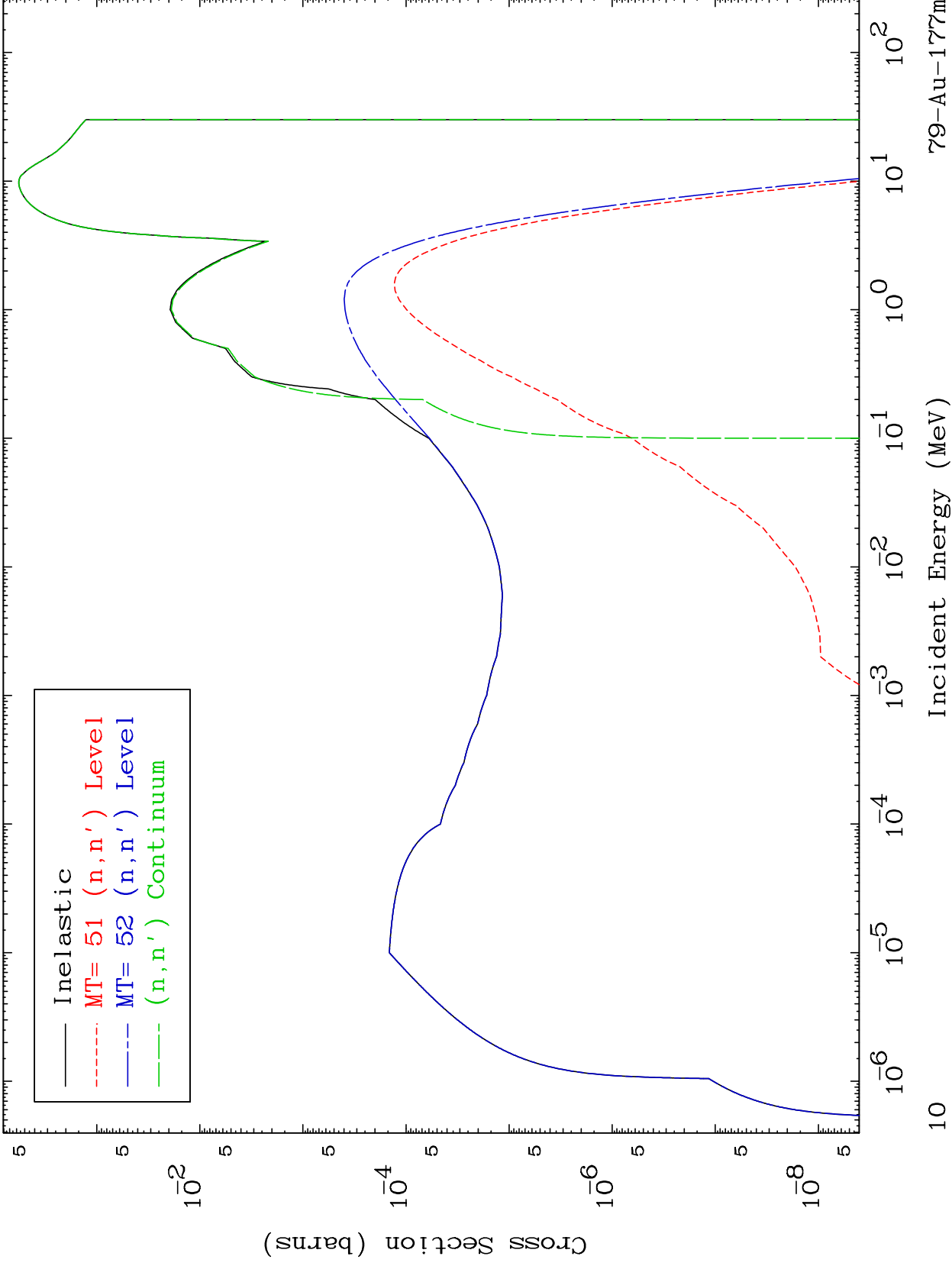
⁷⁹Au-177m



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(n,n') Levels
293 Kelvin Cross Sections

⁷⁹Au-177m

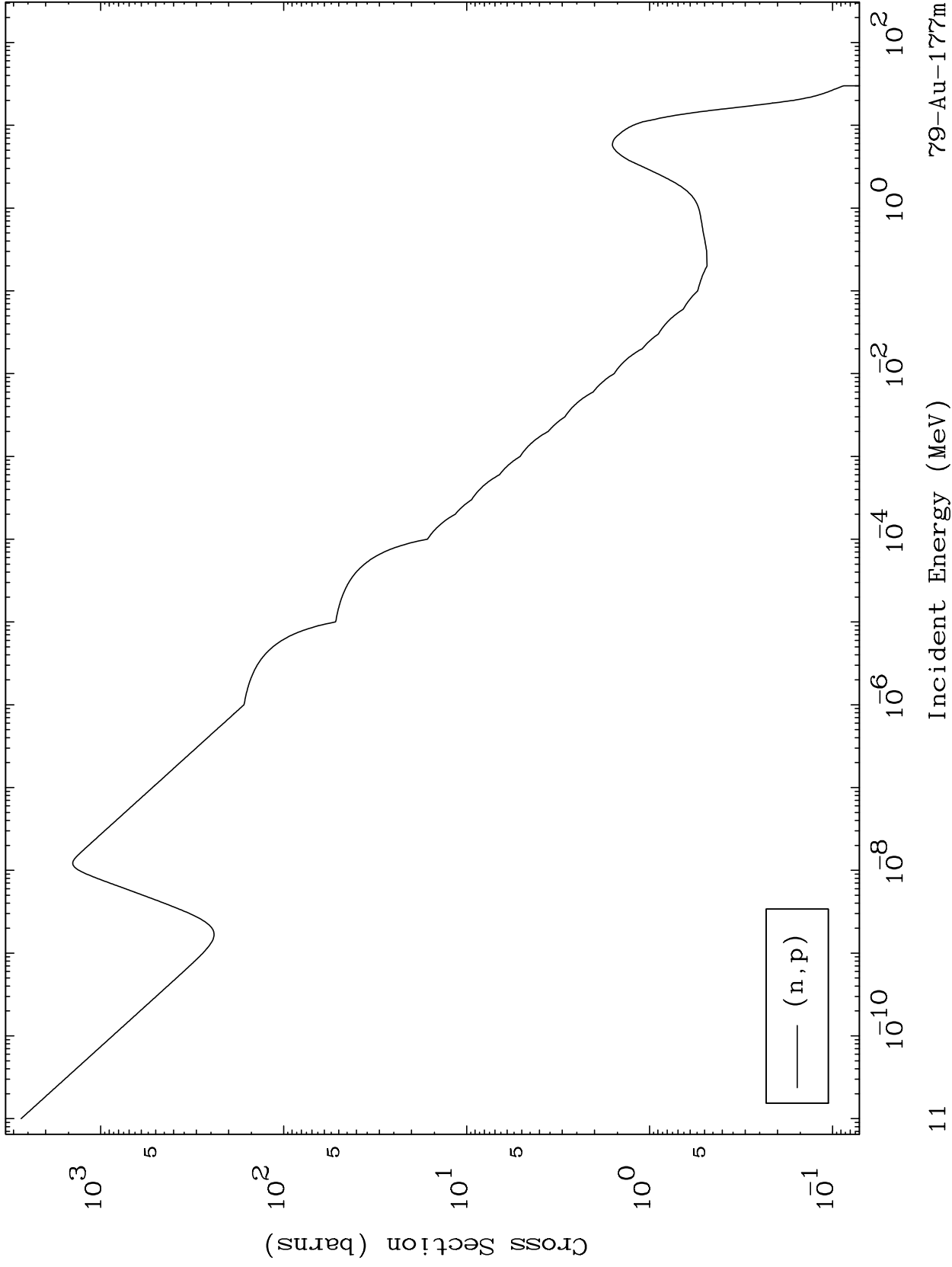


⁷⁹Au-177m

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(n,p) Levels
293 Kelvin Cross Sections

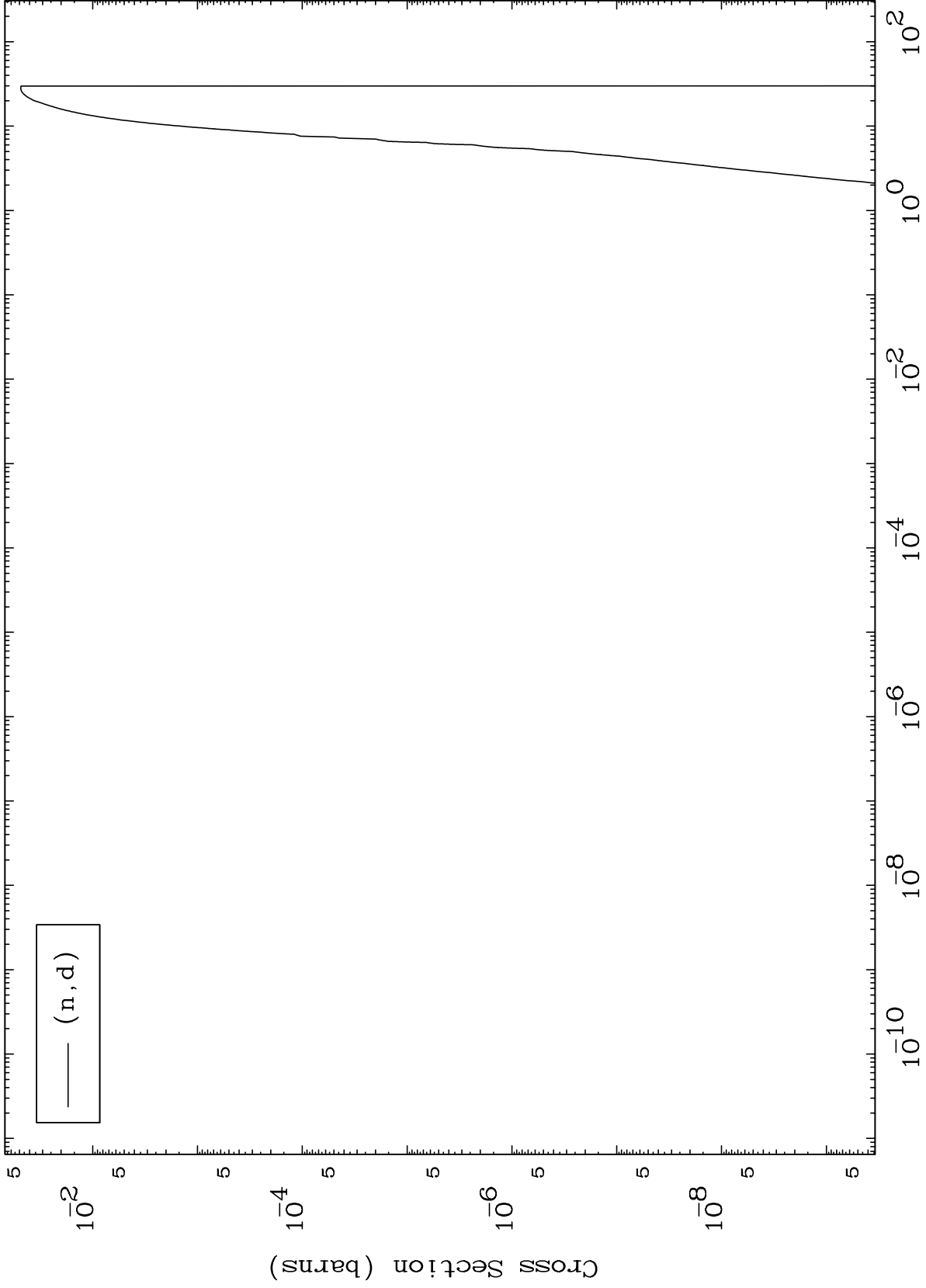
⁷⁹Au-177m



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(n,d) Levels
293 Kelvin Cross Sections

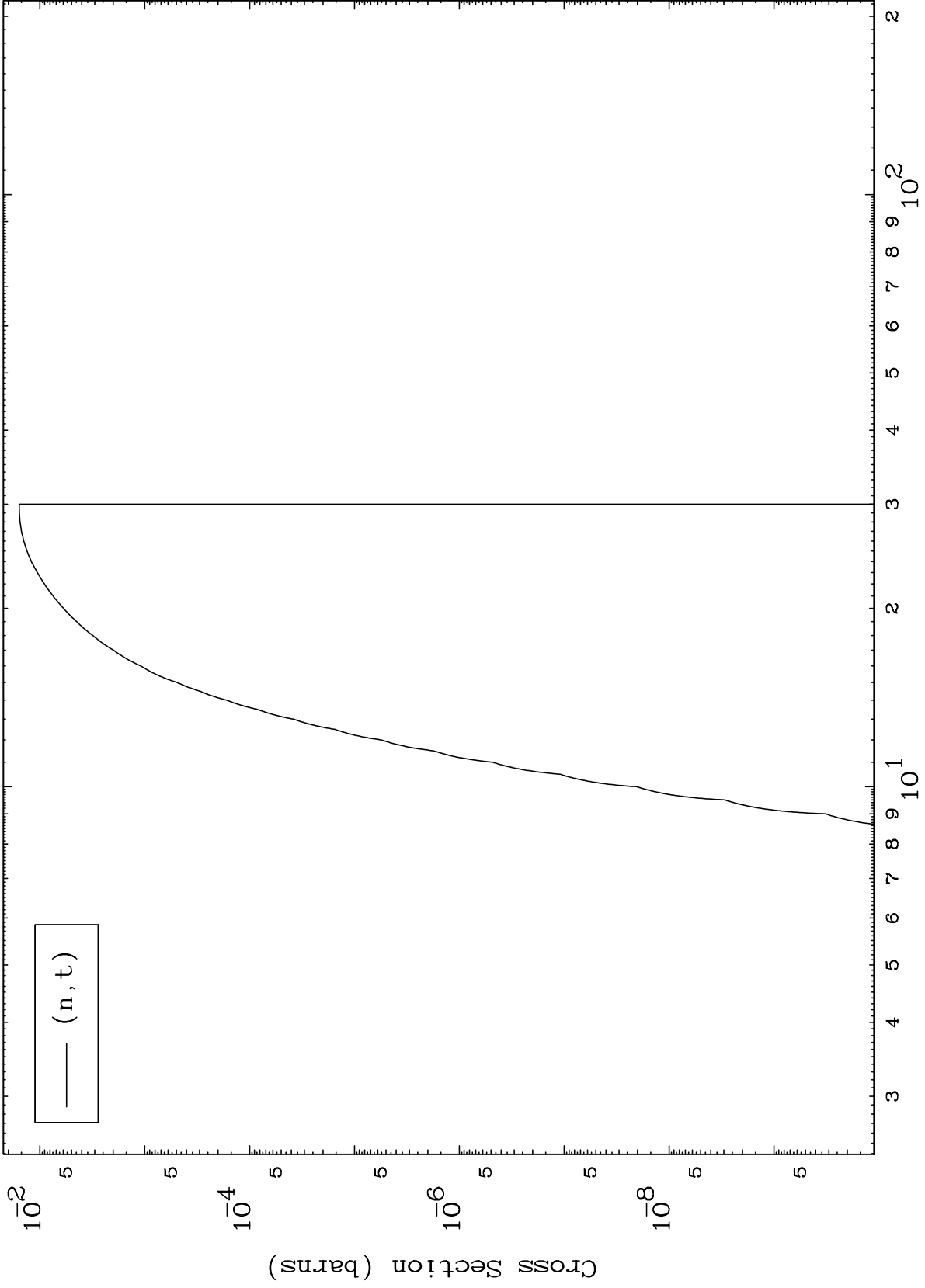
⁷⁹Au-177m



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(n,t) Levels
293 Kelvin Cross Sections

⁷⁹Au-177m



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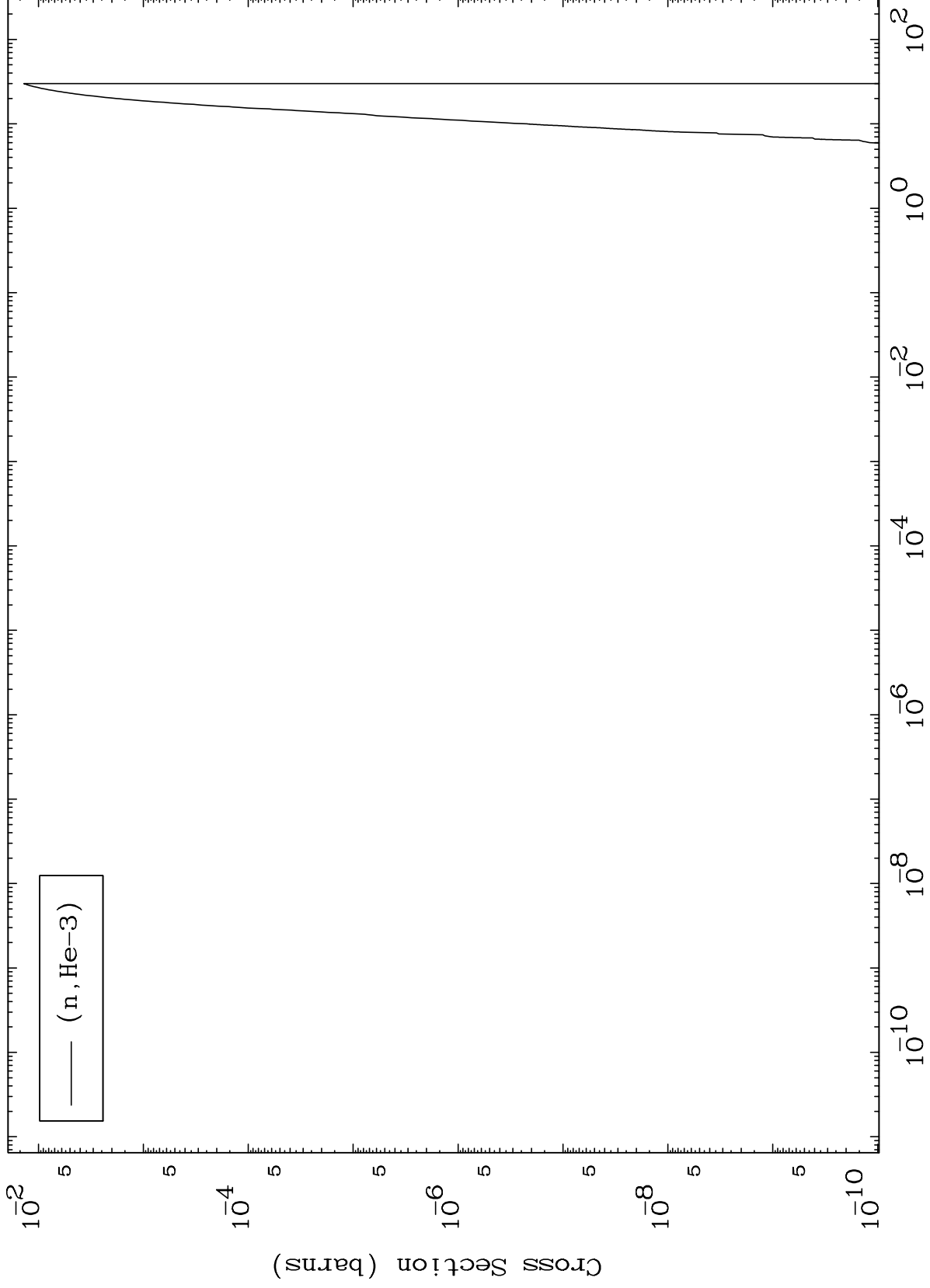
Incident Energy (MeV)

⁷⁹Au-177m

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(n,He3) Levels
293 Kelvin Cross Sections

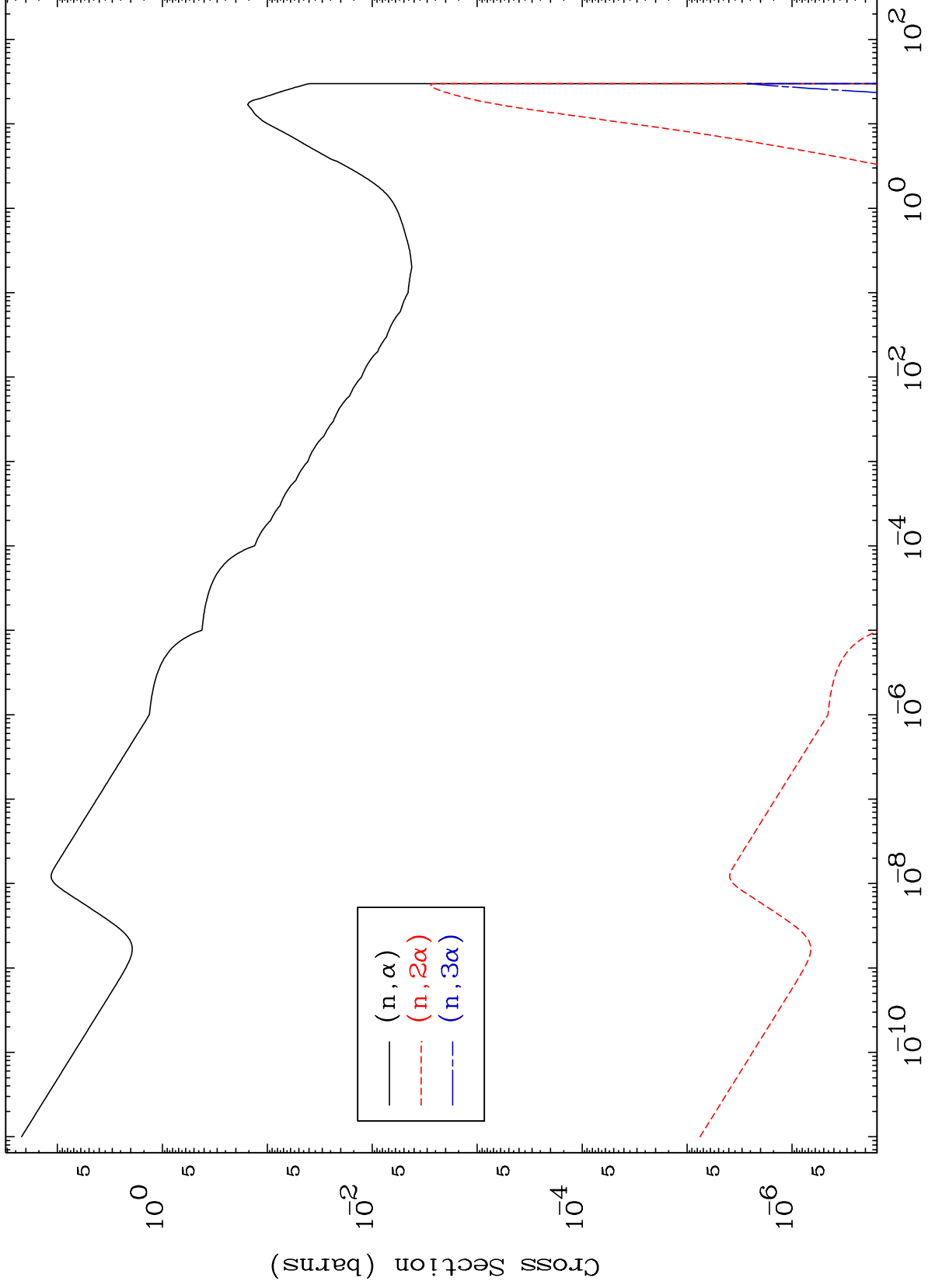
⁷⁹Au-177m



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(n, α) Levels
293 Kelvin Cross Sections

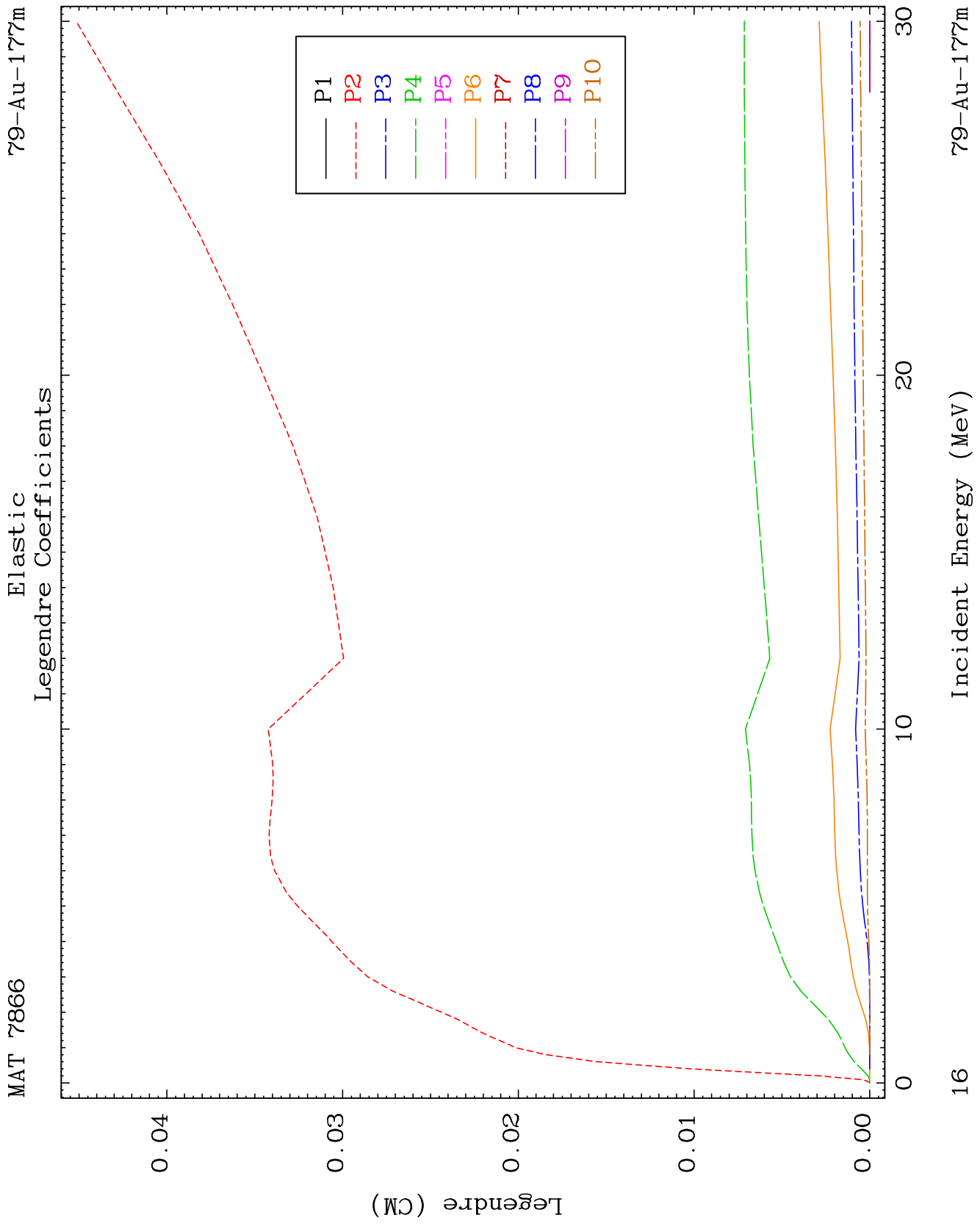
⁷⁹Au-177m



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Incident Energy (MeV)

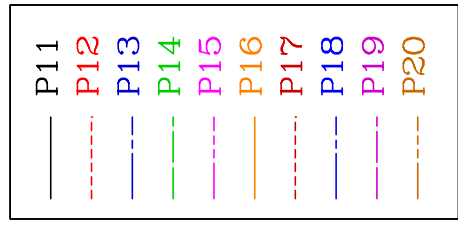
⁷⁹Au-177m



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Elastic Legendre Coefficients

⁷⁹Au-177m



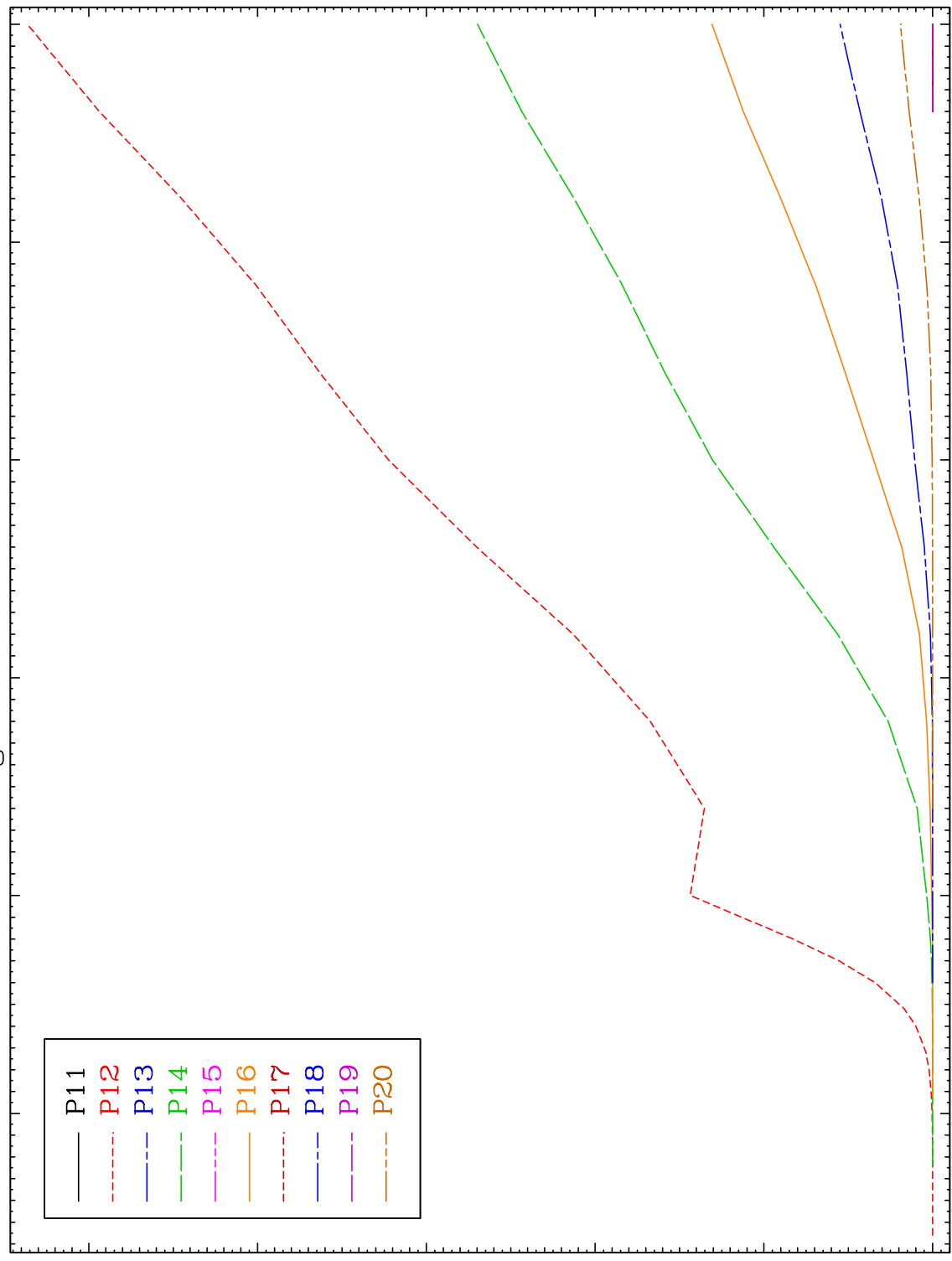
$\times 10^{-4}$
Legendre (CM)
2.5
2.0
1.5
1.0
0.5
0.0

5 10 15 20 25 30

17

Incident Energy (MeV)

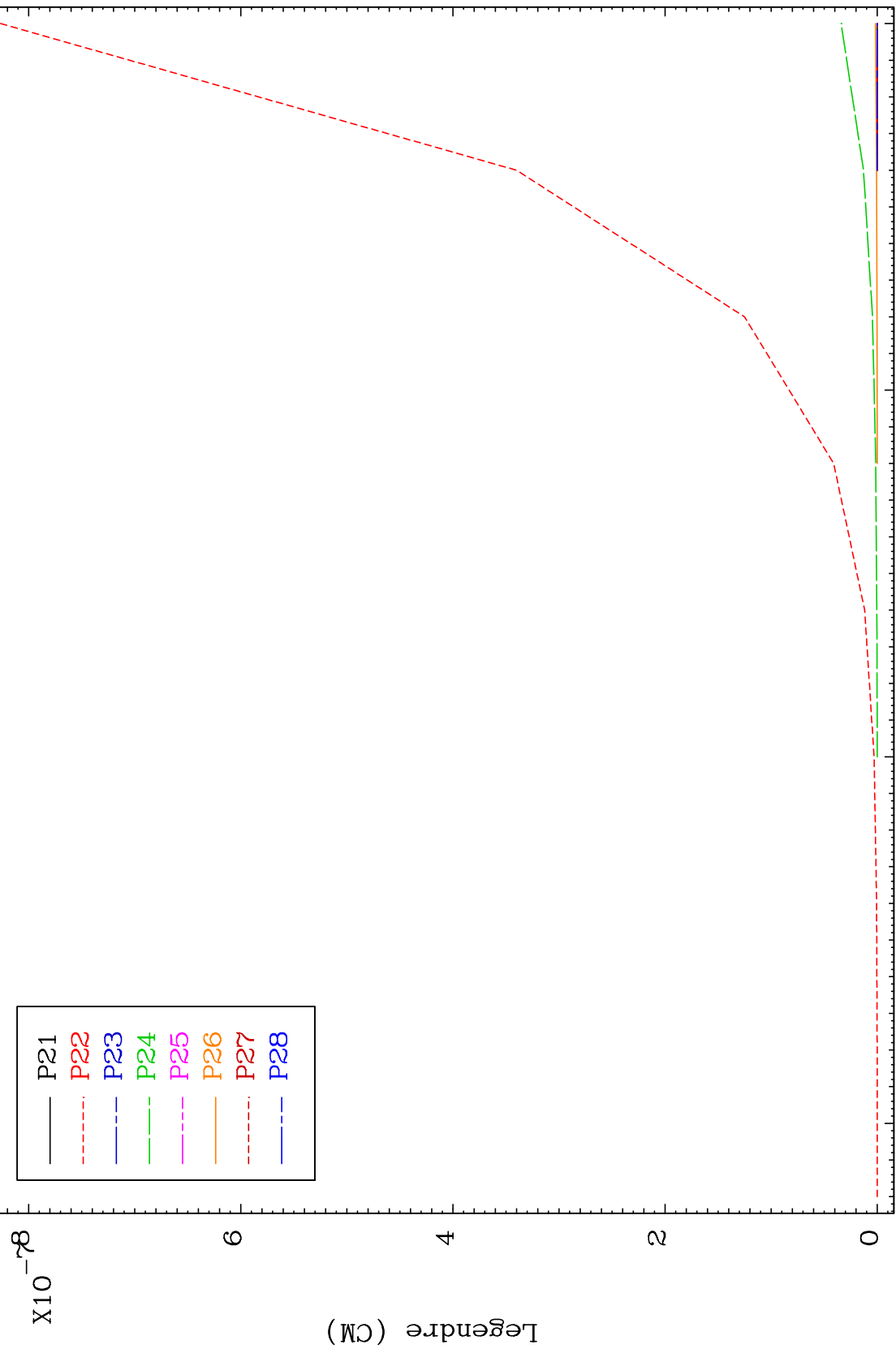
⁷⁹Au-177m



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Elastic Legendre Coefficients

⁷⁹Au-177m



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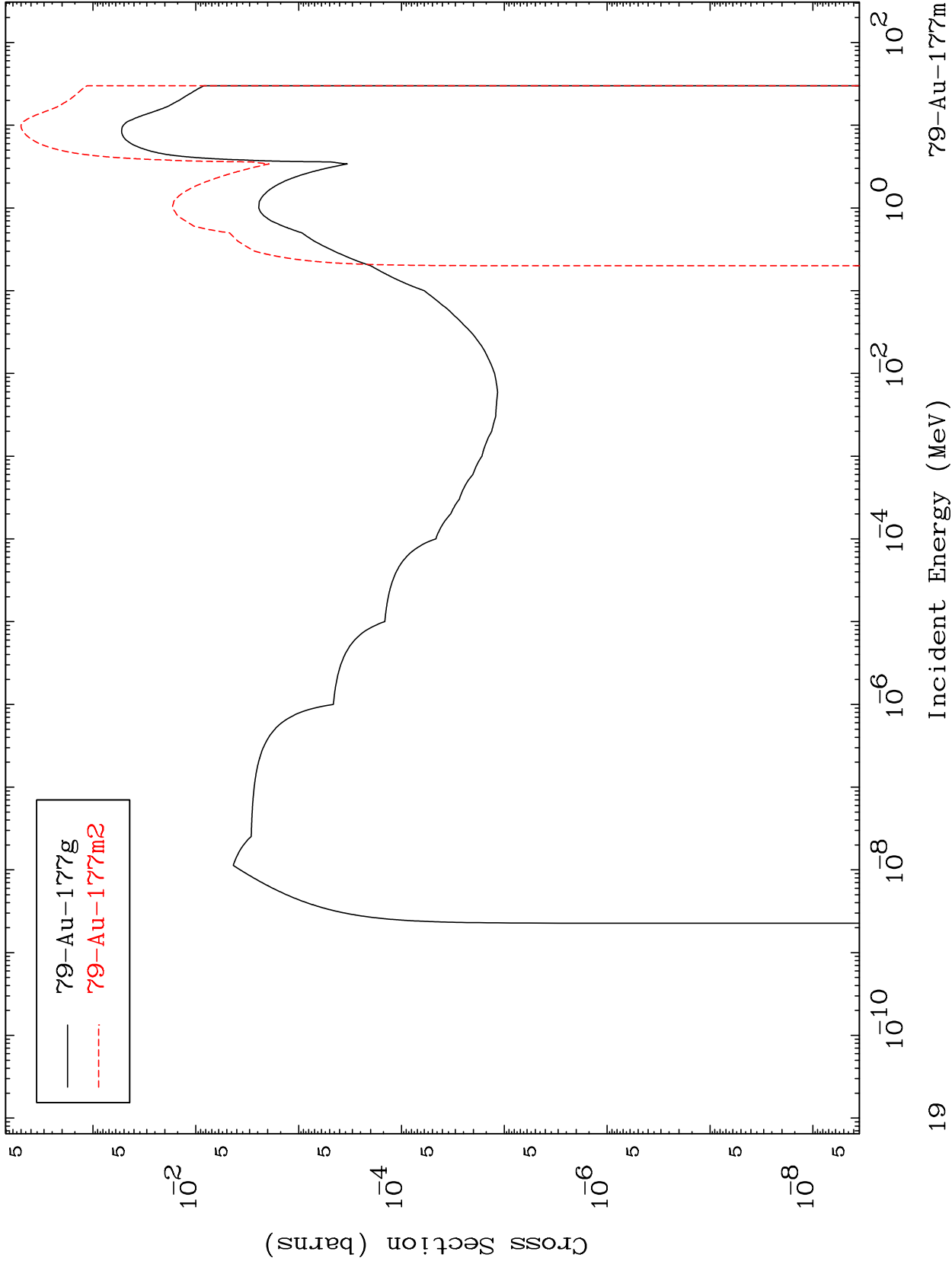
Incident Energy (MeV)

⁷⁹Au-177m

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Inelastic
Radionuclide Production Cross Section

⁷⁹Au-177m

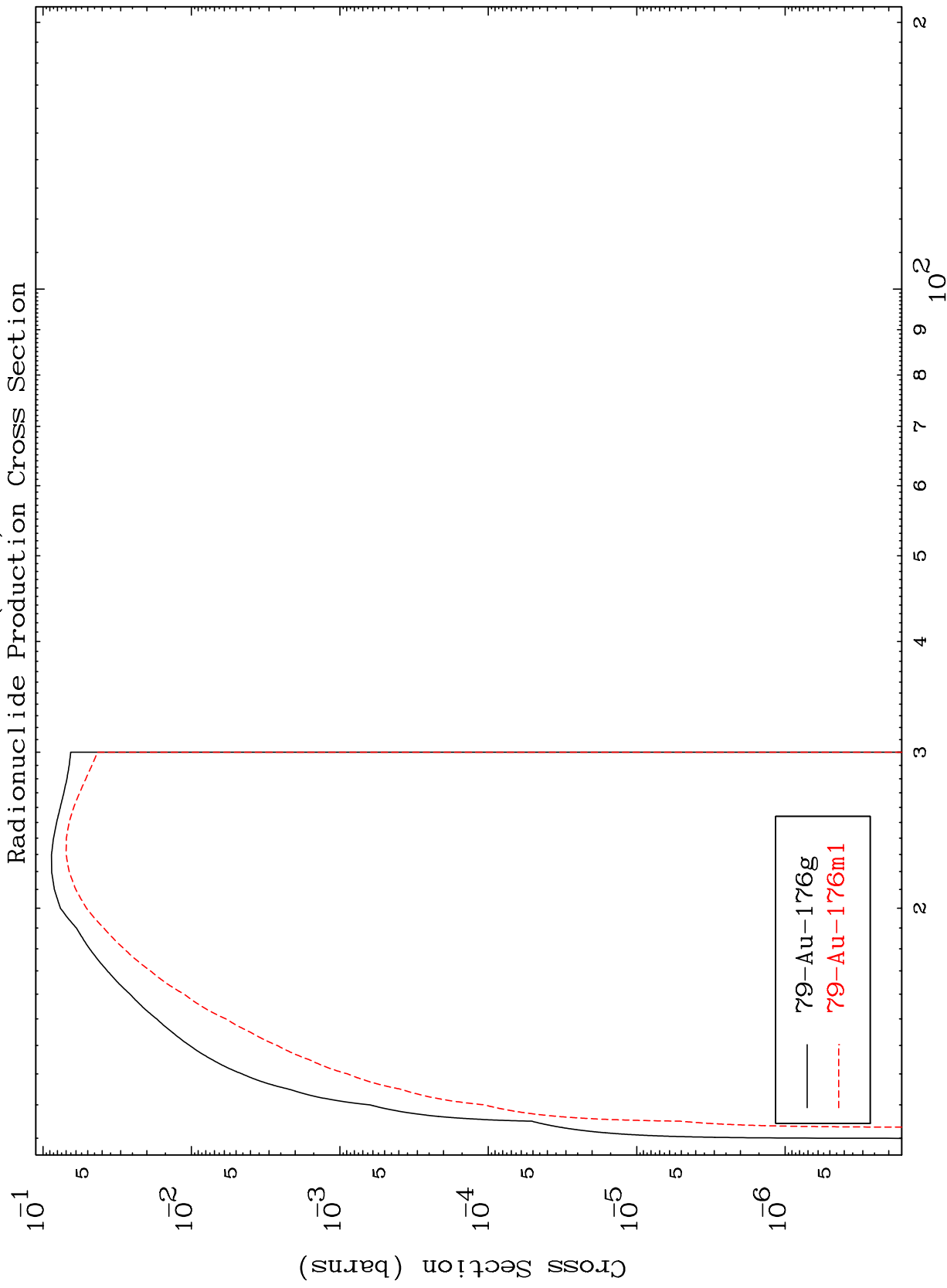


— ⁷⁹Au-177g
- - - ⁷⁹Au-177m2

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⁷⁹Au-177m

Radionuclide Production Cross Section



⁷⁹Au-177m

Incident Energy (MeV)

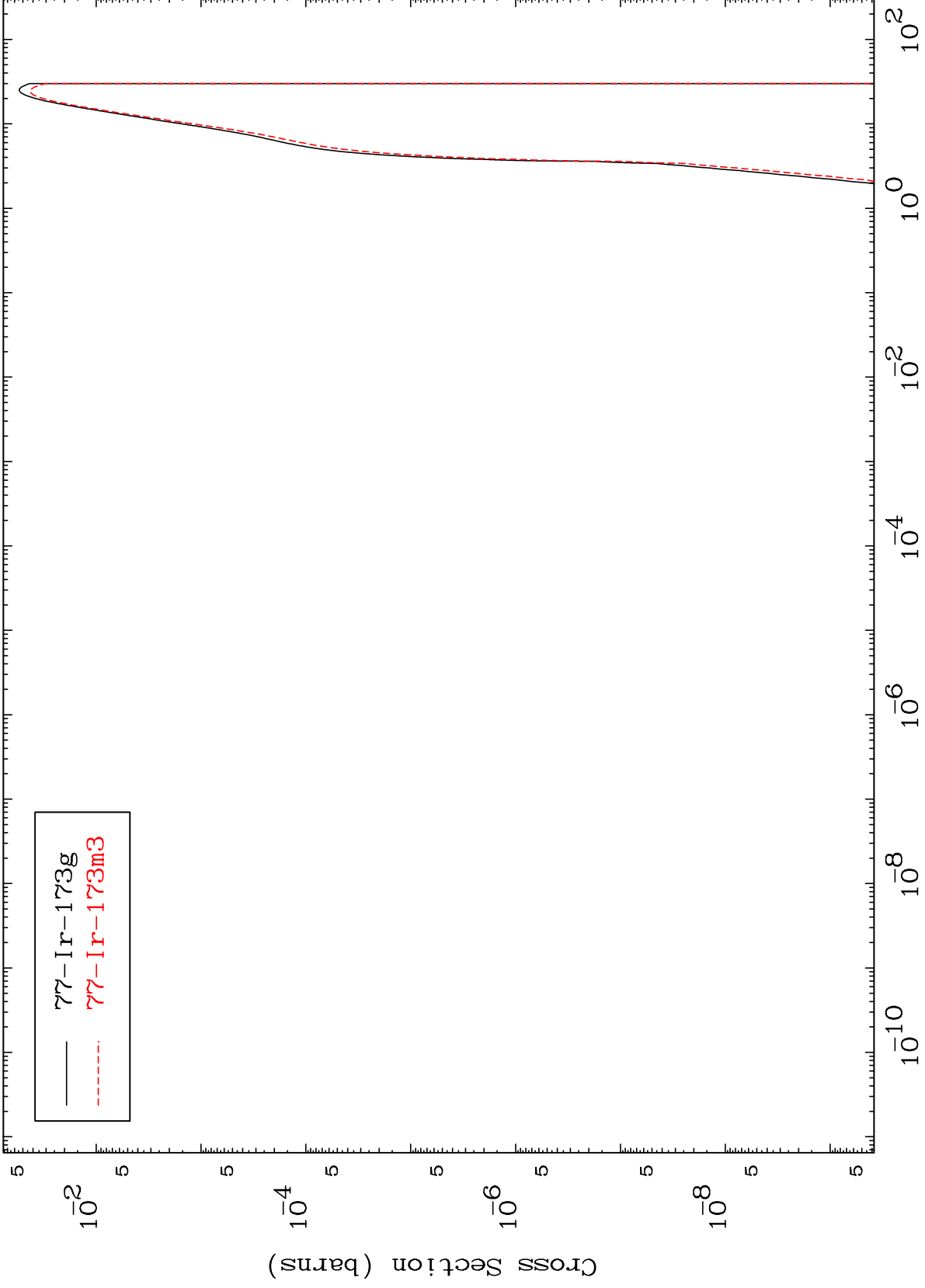
20

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$(n, n') \alpha$

$^{79}\text{Au-177m}$

Radionuclide Production Cross Section

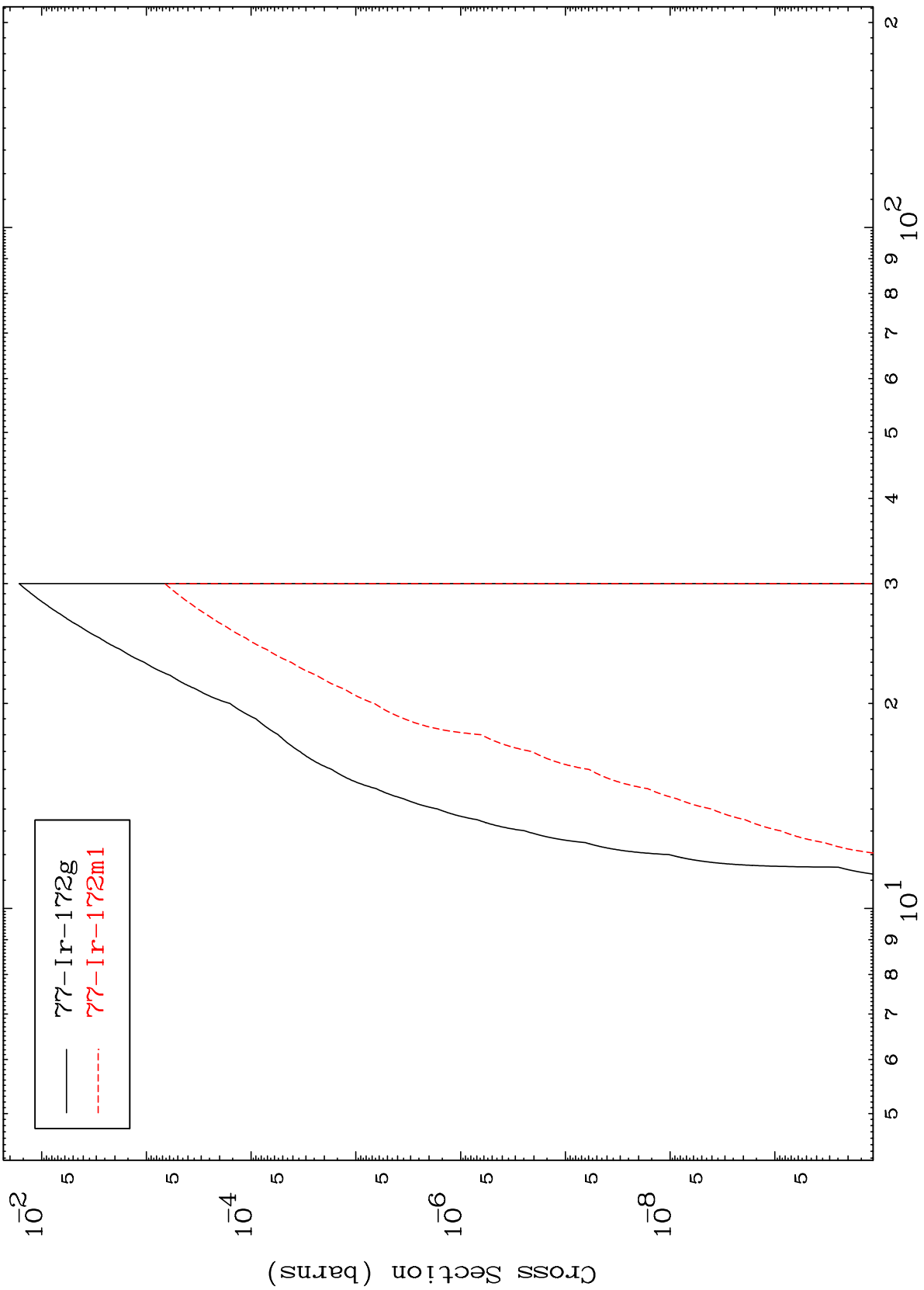


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$(n,2n) \alpha$

$^{79}\text{Au-177m}$

Radionuclide Production Cross Section



— $^{77}\text{Ir-172g}$
- - - $^{77}\text{Ir-172m1}$

Incident Energy (MeV)

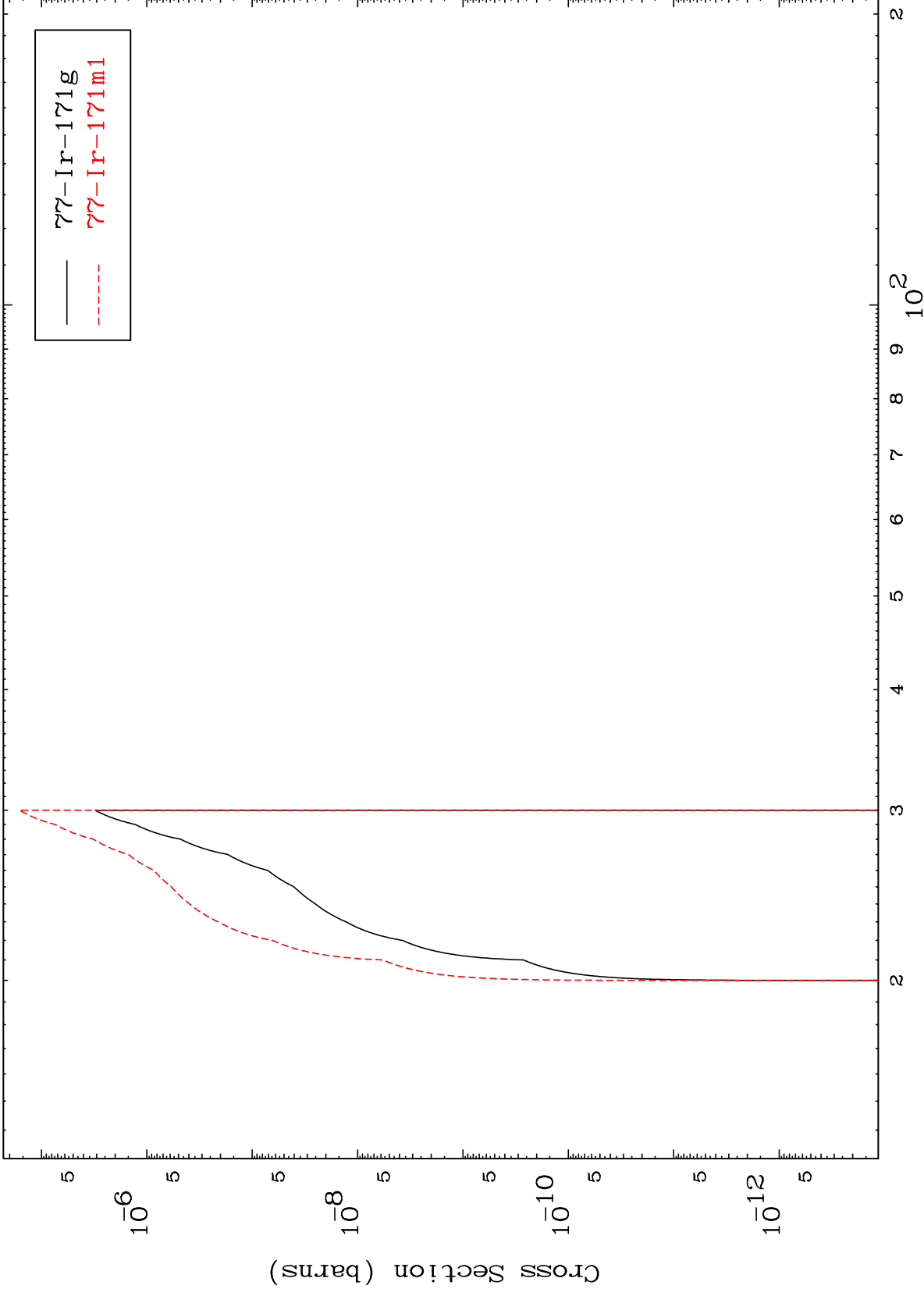
$^{79}\text{Au-177m}$

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(n,3n) α

⁷⁹Au-177m

Radionuclide Production Cross Section

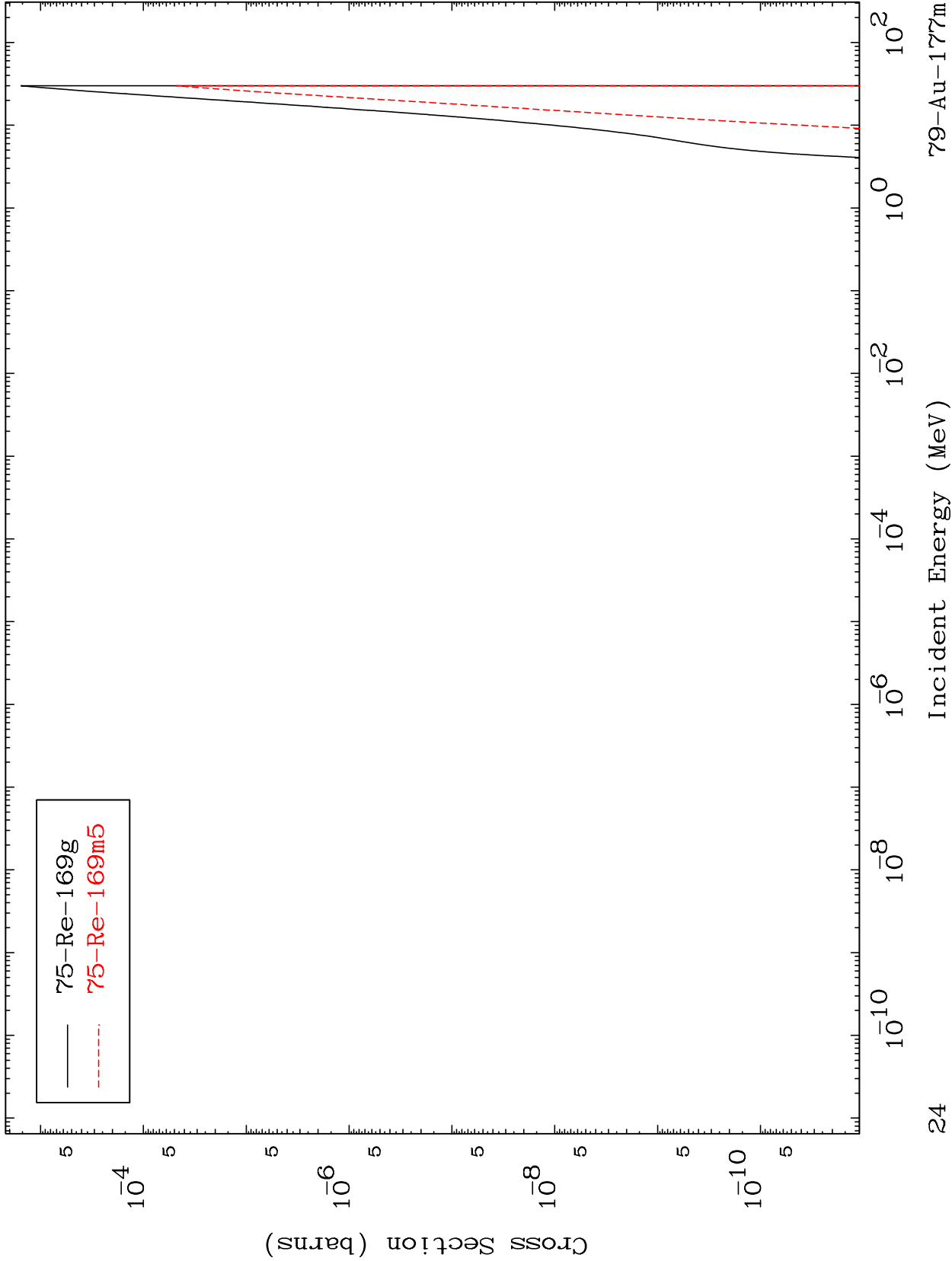


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(n,n') 2α

⁷⁹Au-177m

Radionuclide Production Cross Section

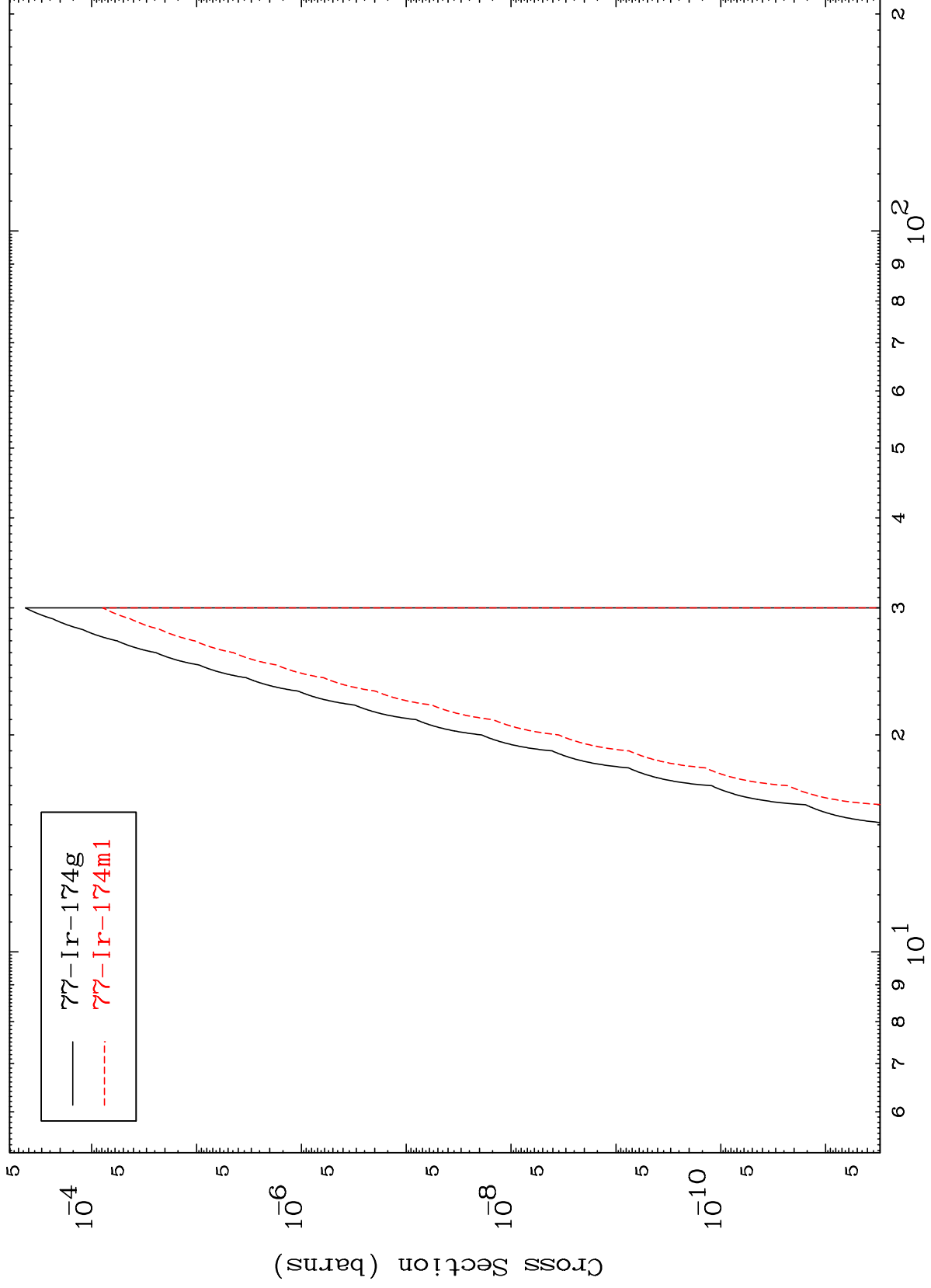


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(n,n') He-3

⁷⁹Au-177m

Radionuclide Production Cross Section

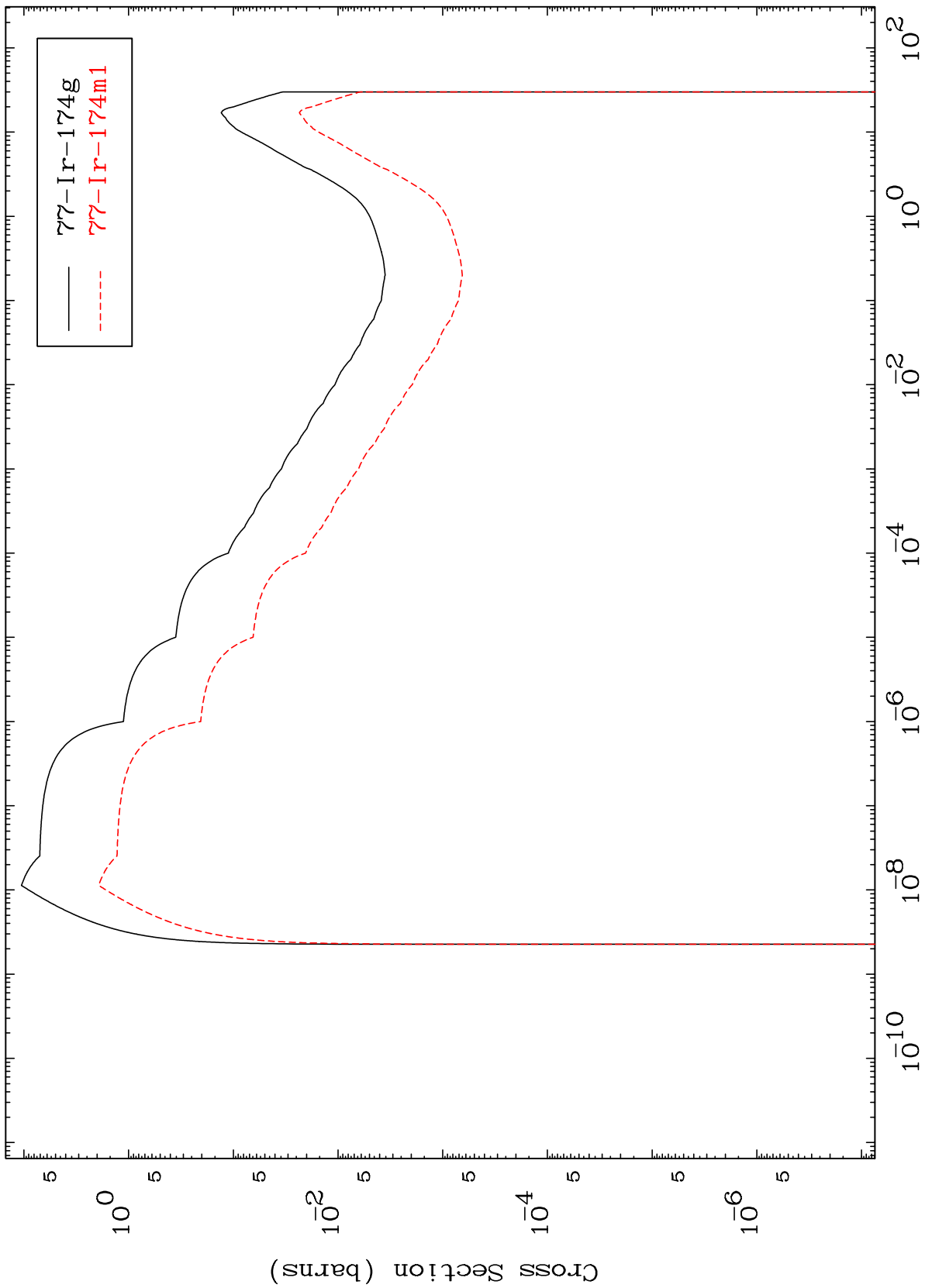


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Incident Energy (MeV)

⁷⁹Au-177m

(n,α)
Radionuclide Production Cross Section

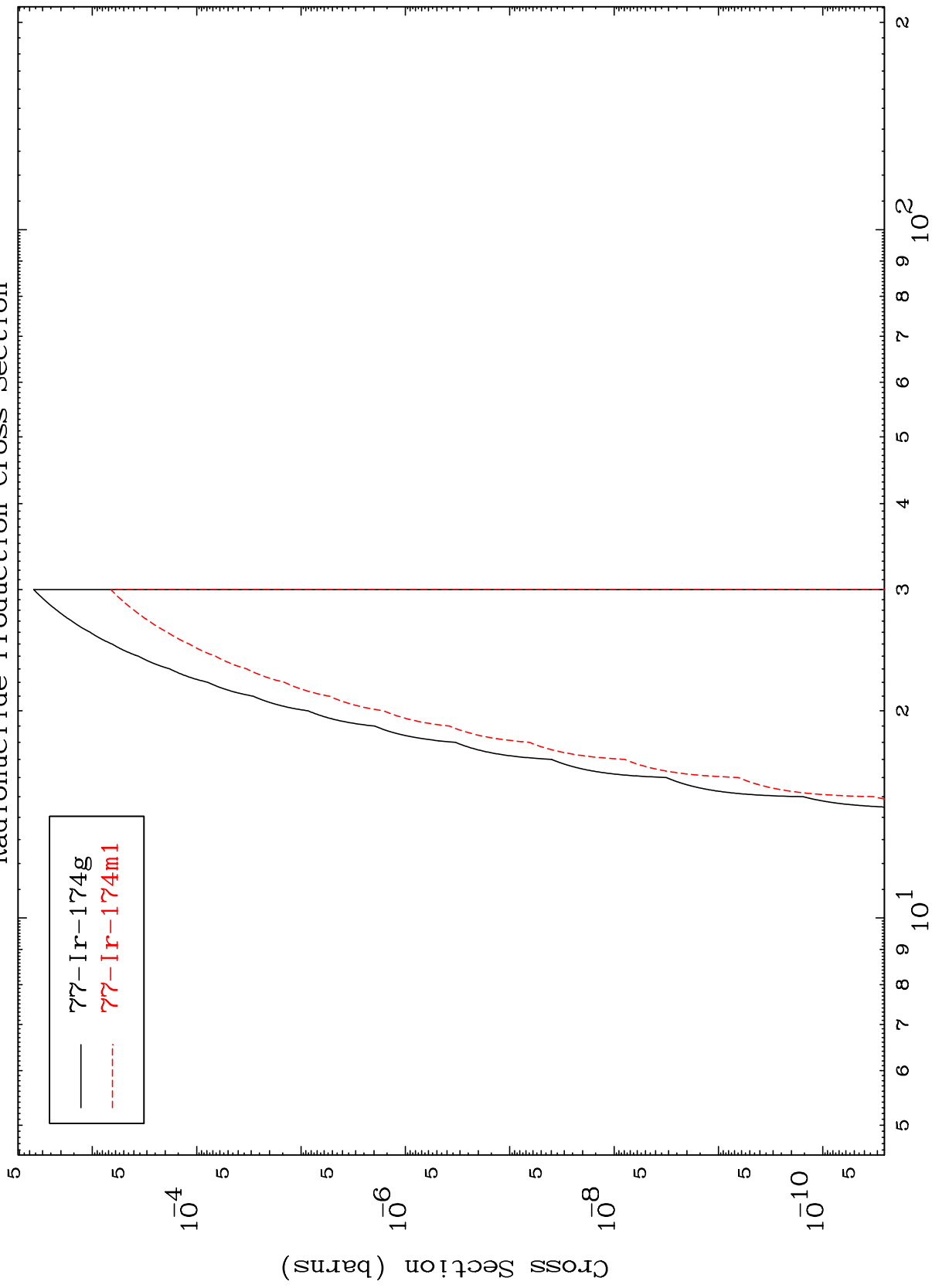


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(n,p) t

⁷⁹Au-177m

Radionuclide Production Cross Section



Incident Energy (MeV)

⁷⁹Au-177m

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