

Program EVALPLOT
(Version 2021-1)

by

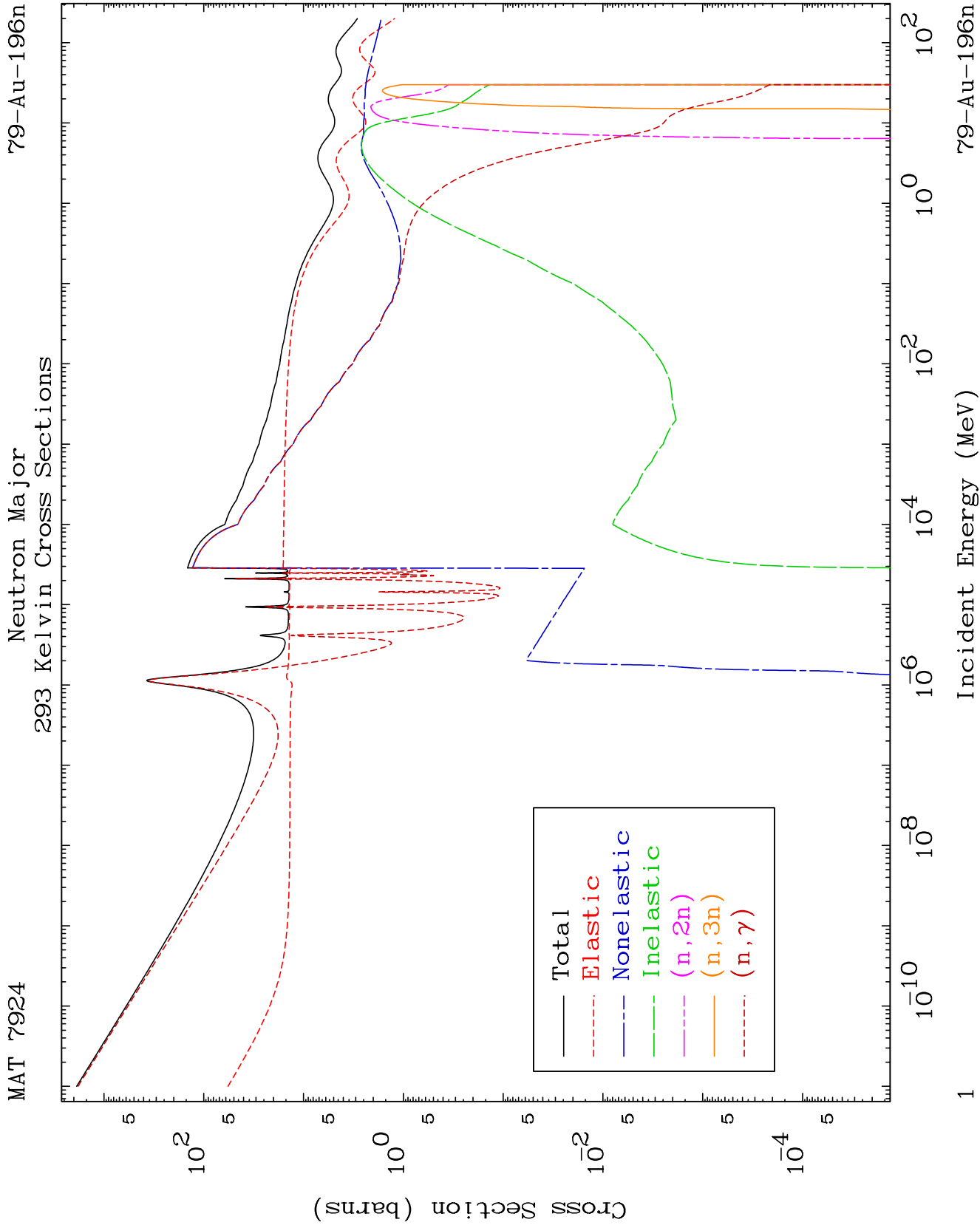
Dermott E. Cullen
(Present Contact Information)

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E.Mail: redcullen1@comcast.net
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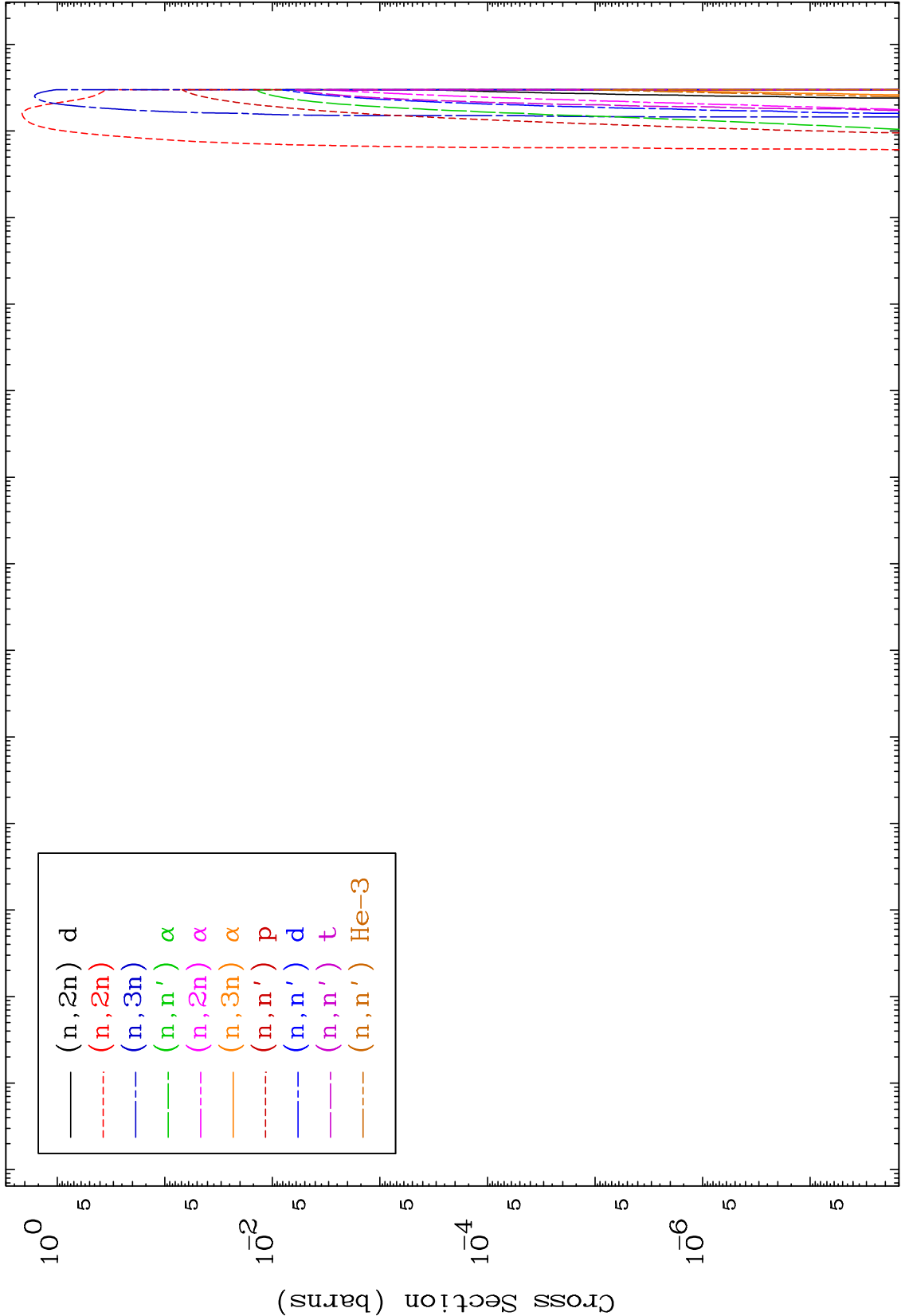
Press Mouse Button to Start

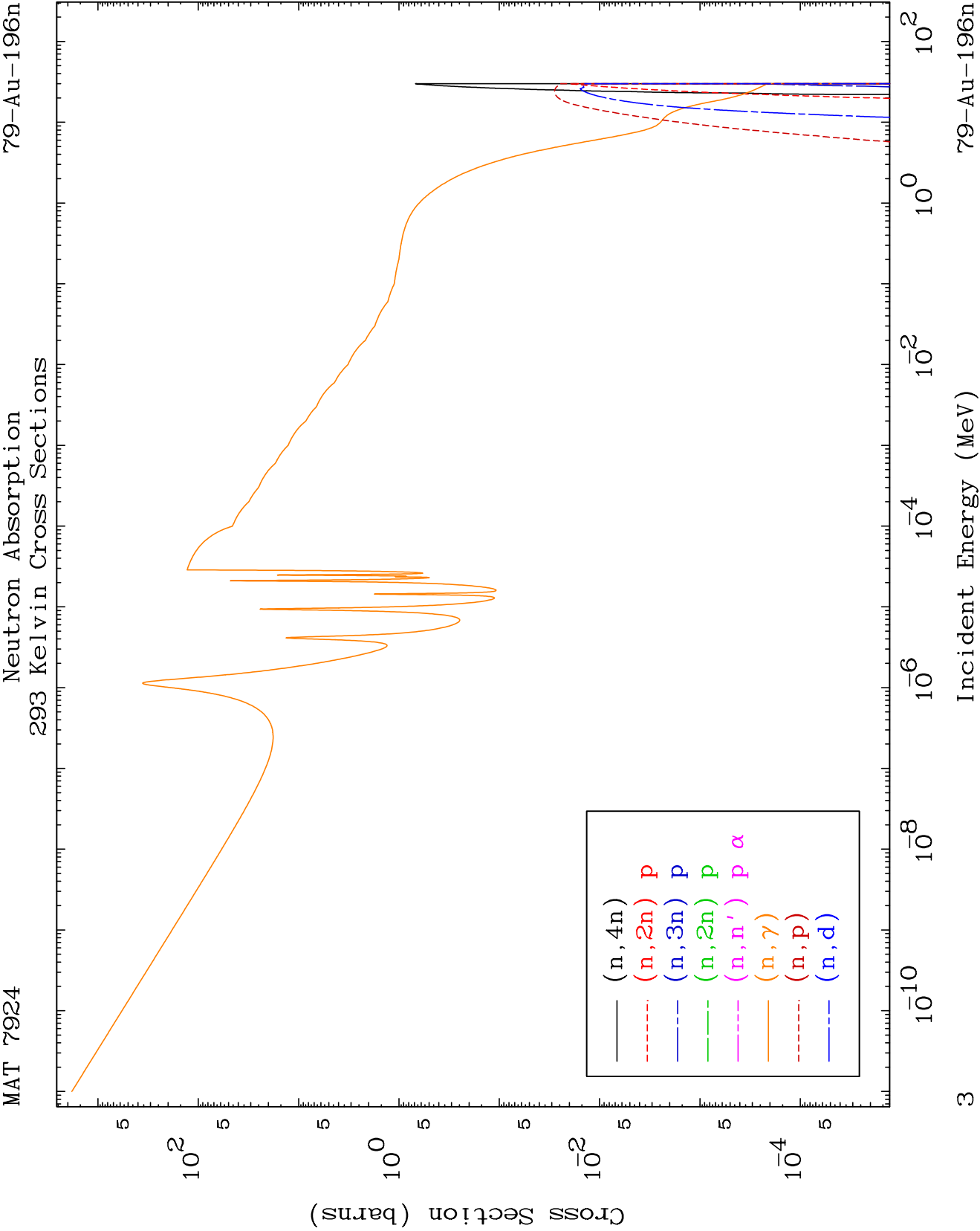


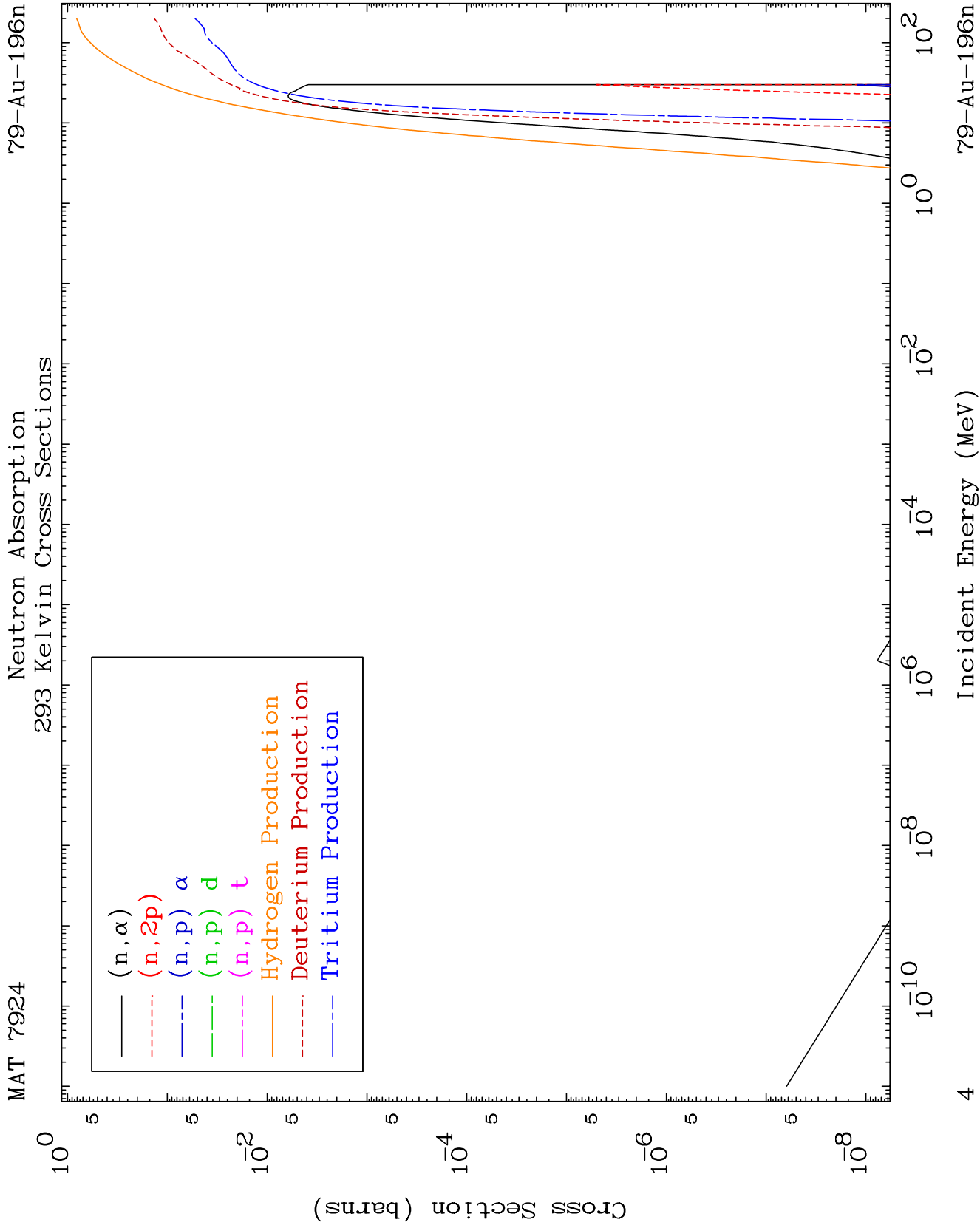
MAT 7924

Neutron Absorption
293 Kelvin Cross Sections

79-Au-196n



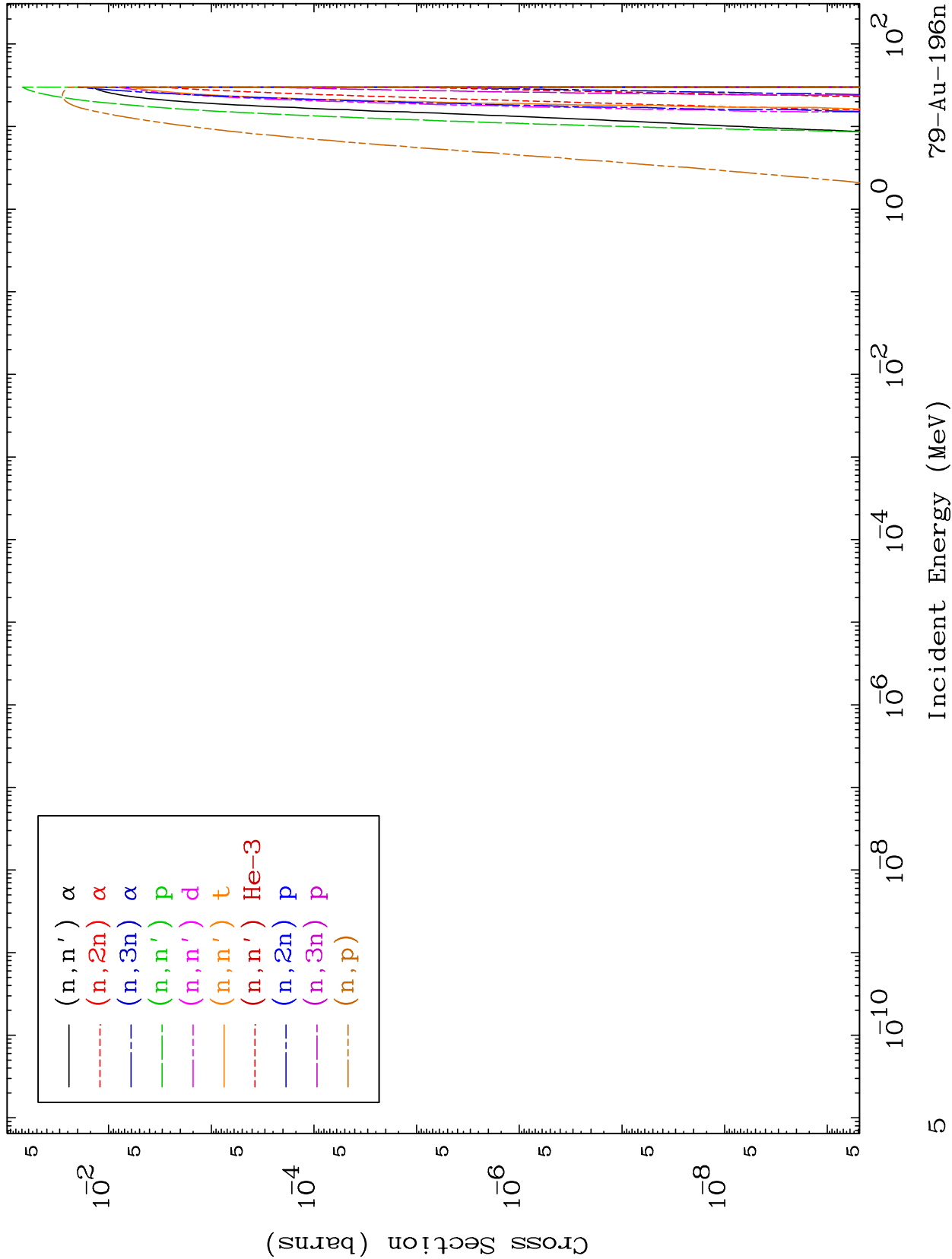


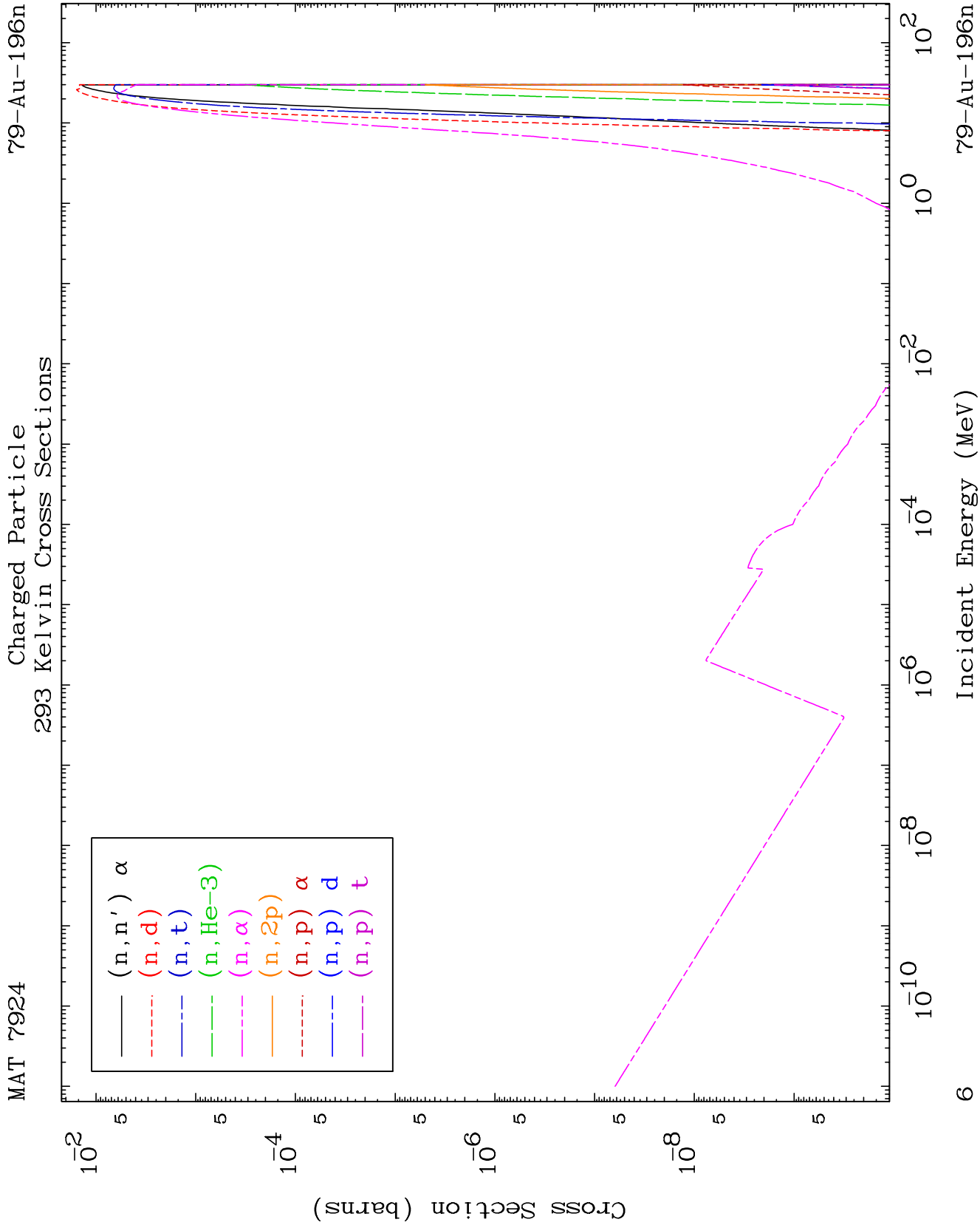


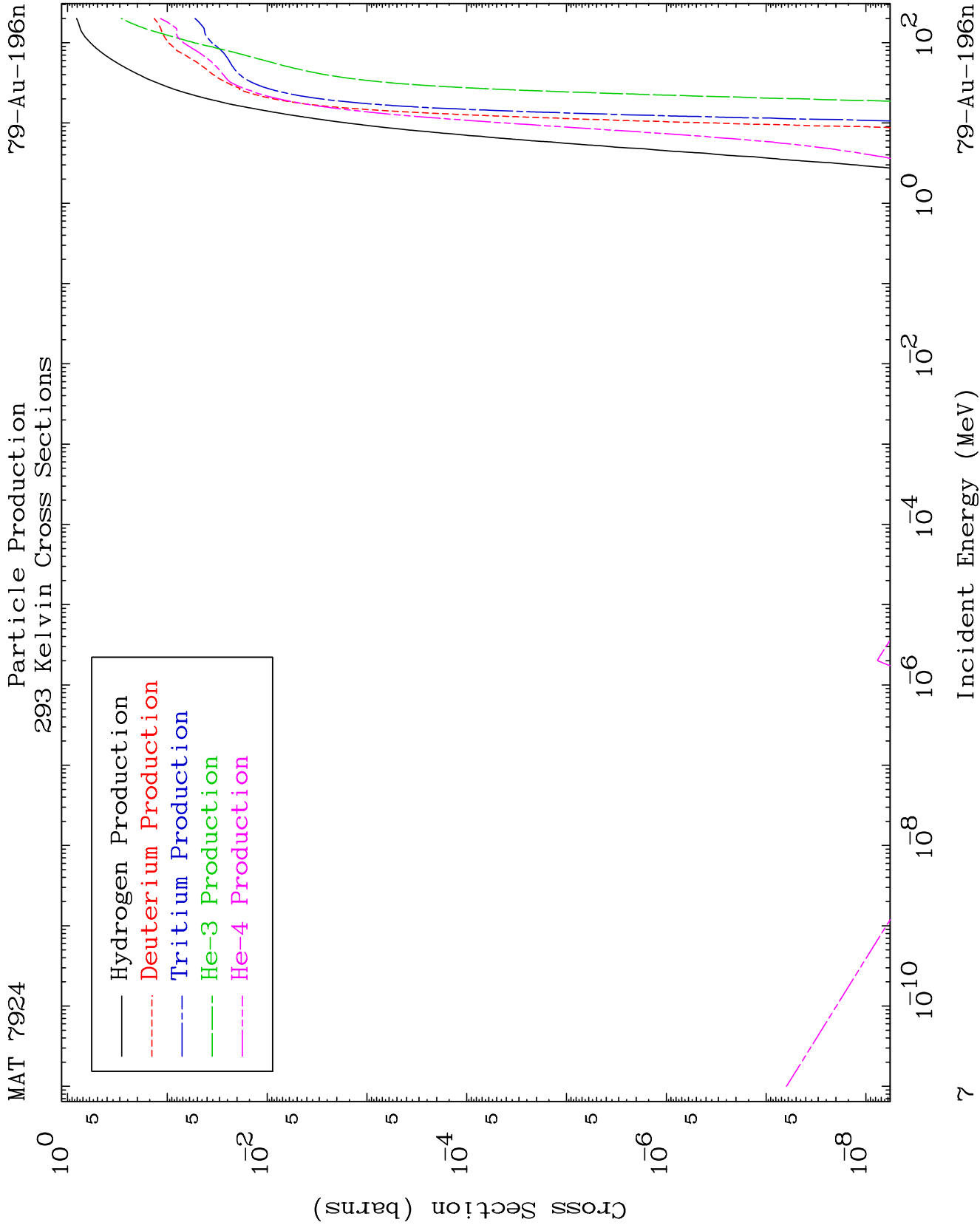
MAT 7924

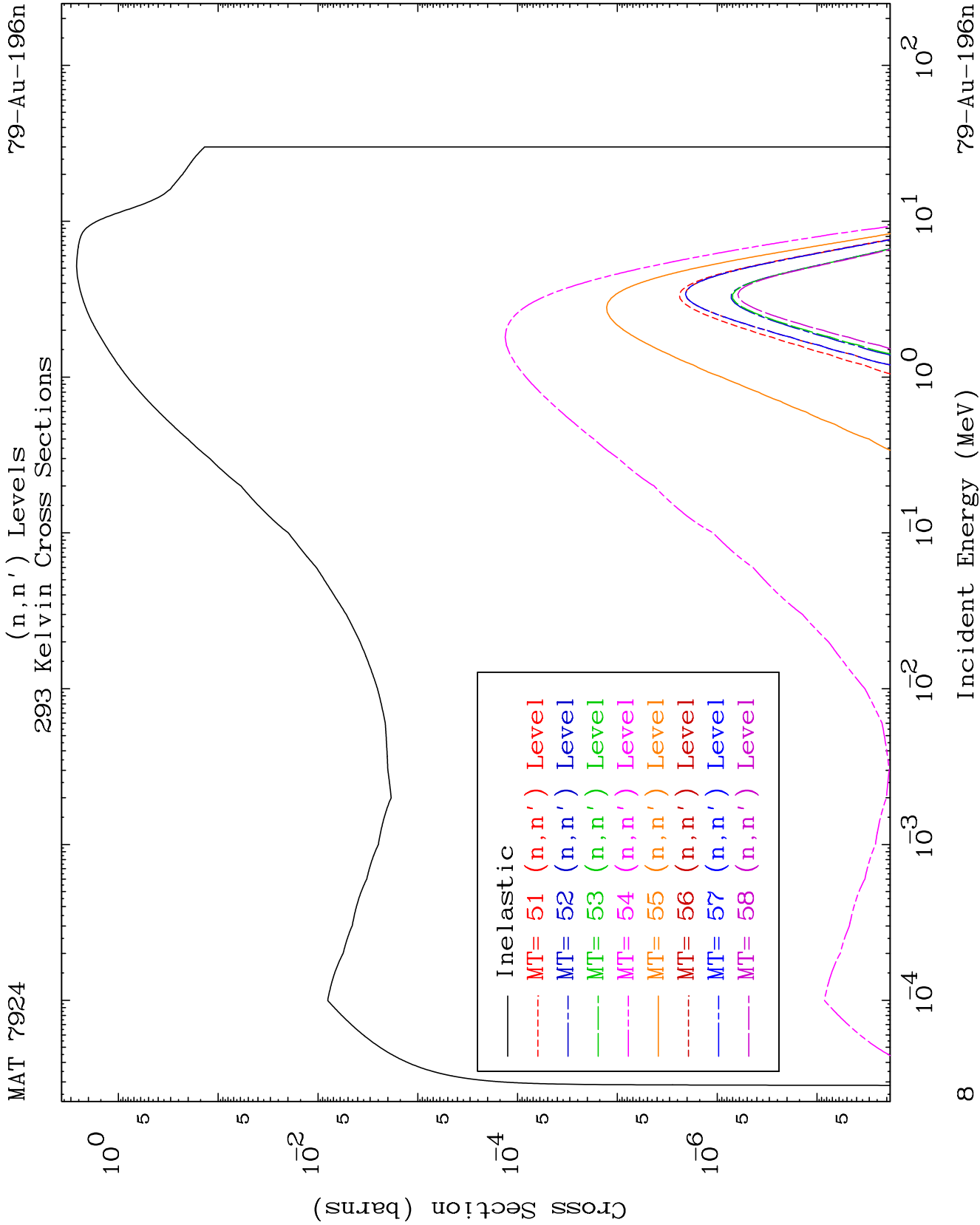
Charged Particle
293 Kelvin Cross Sections

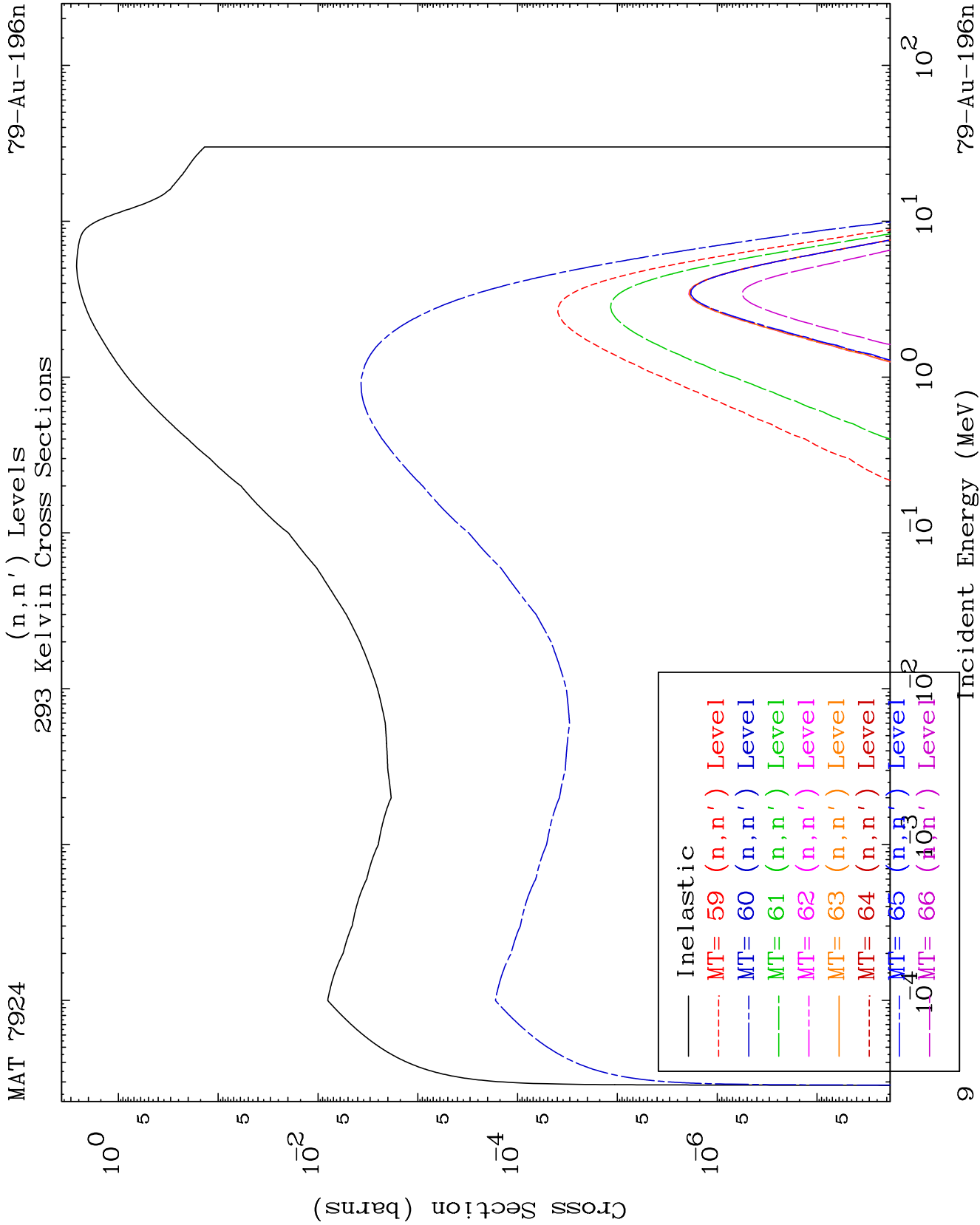
79-Au-196n

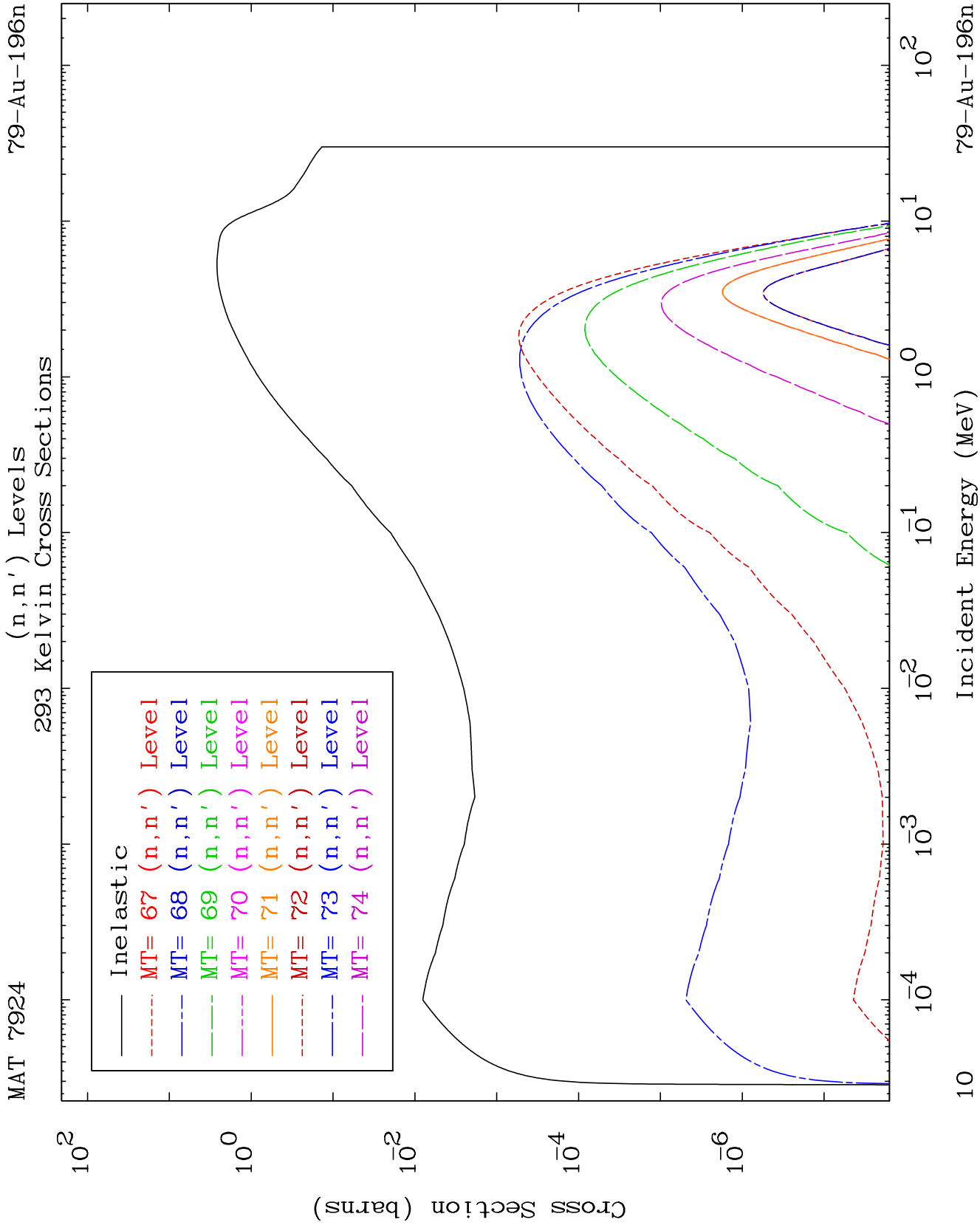








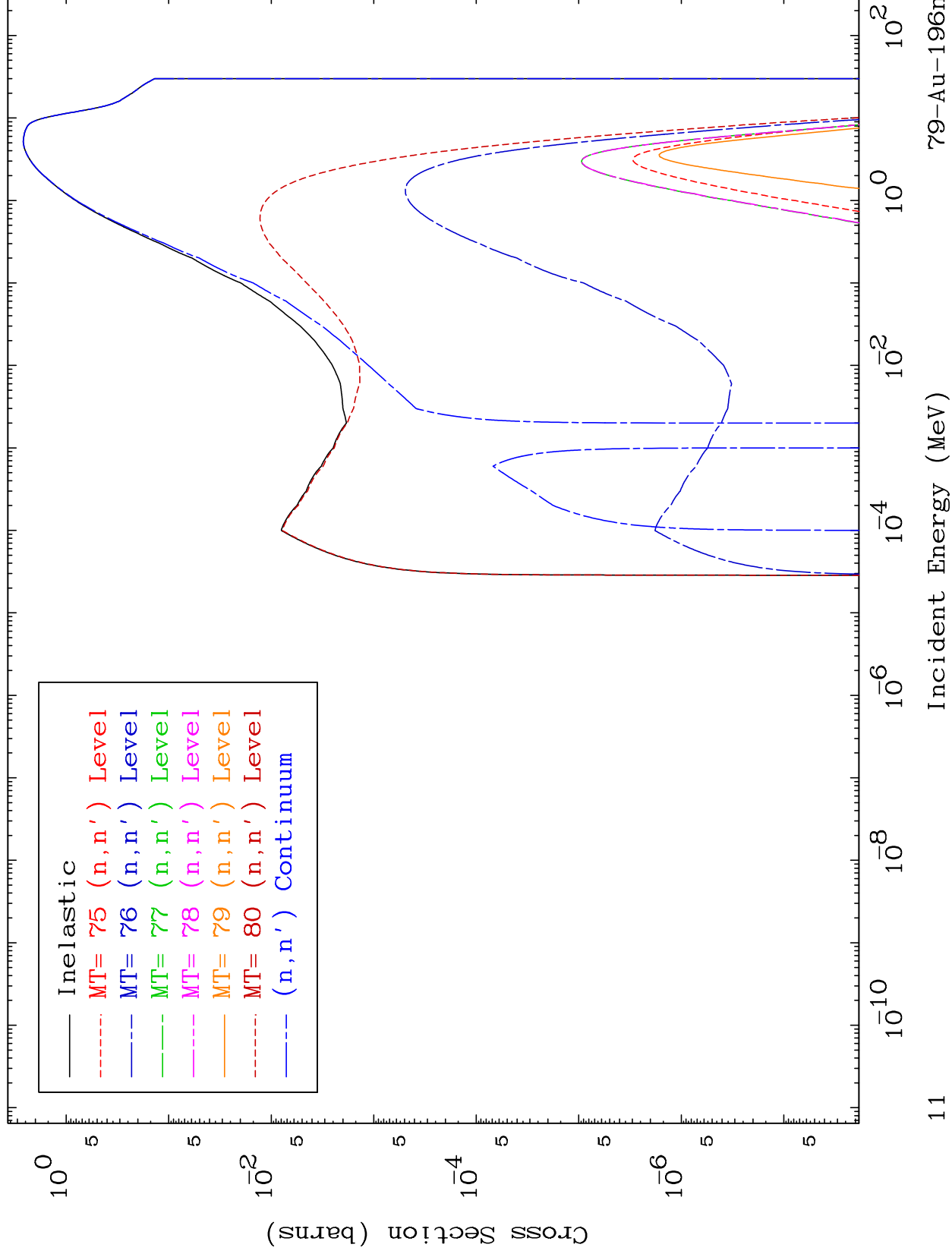




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(n,n') Levels
293 Kelvin Cross Sections

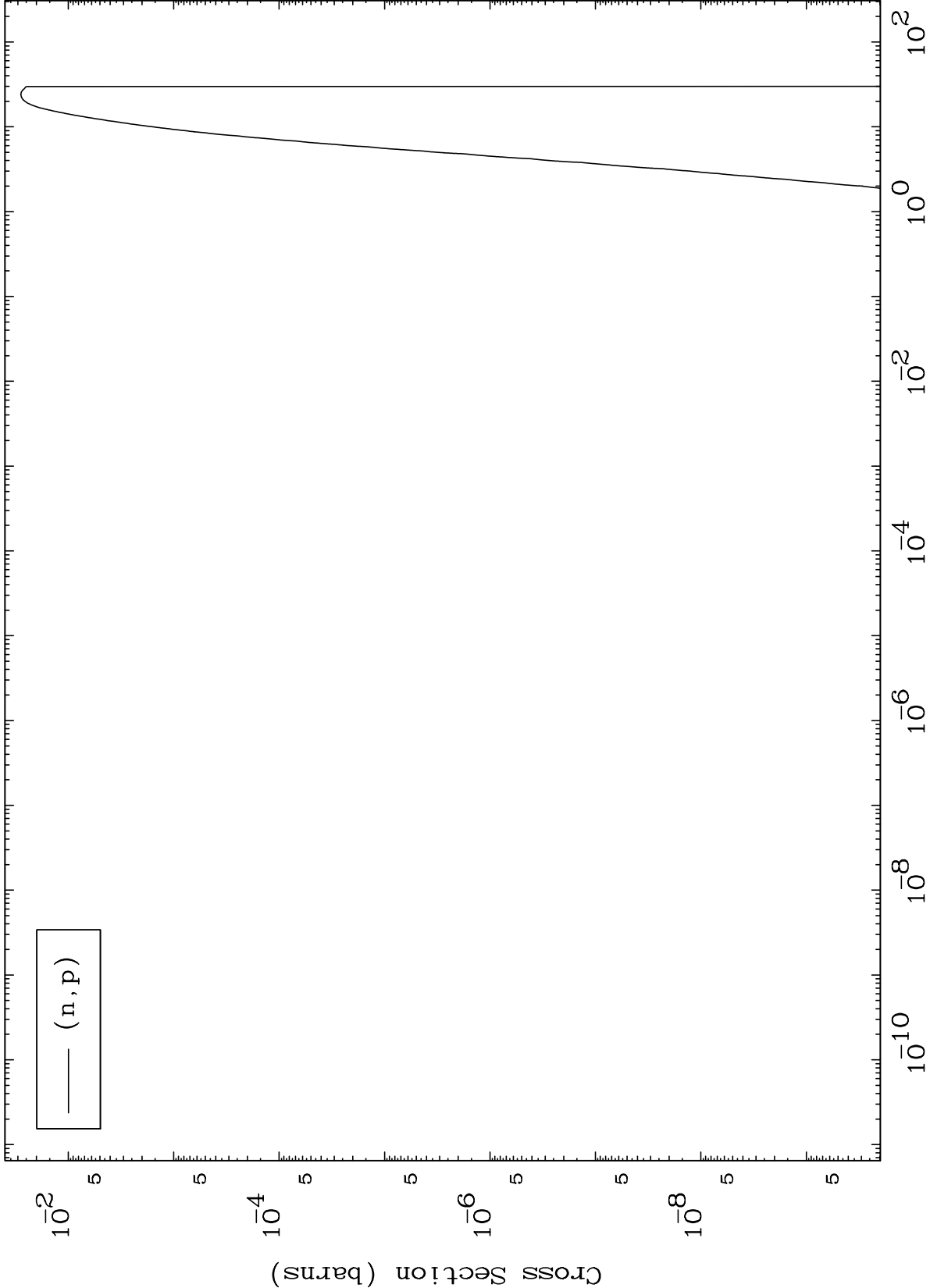
⁷⁹Au-¹⁹⁶n



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(n,p) Levels
293 Kelvin Cross Sections

⁷⁹Au-196n



12

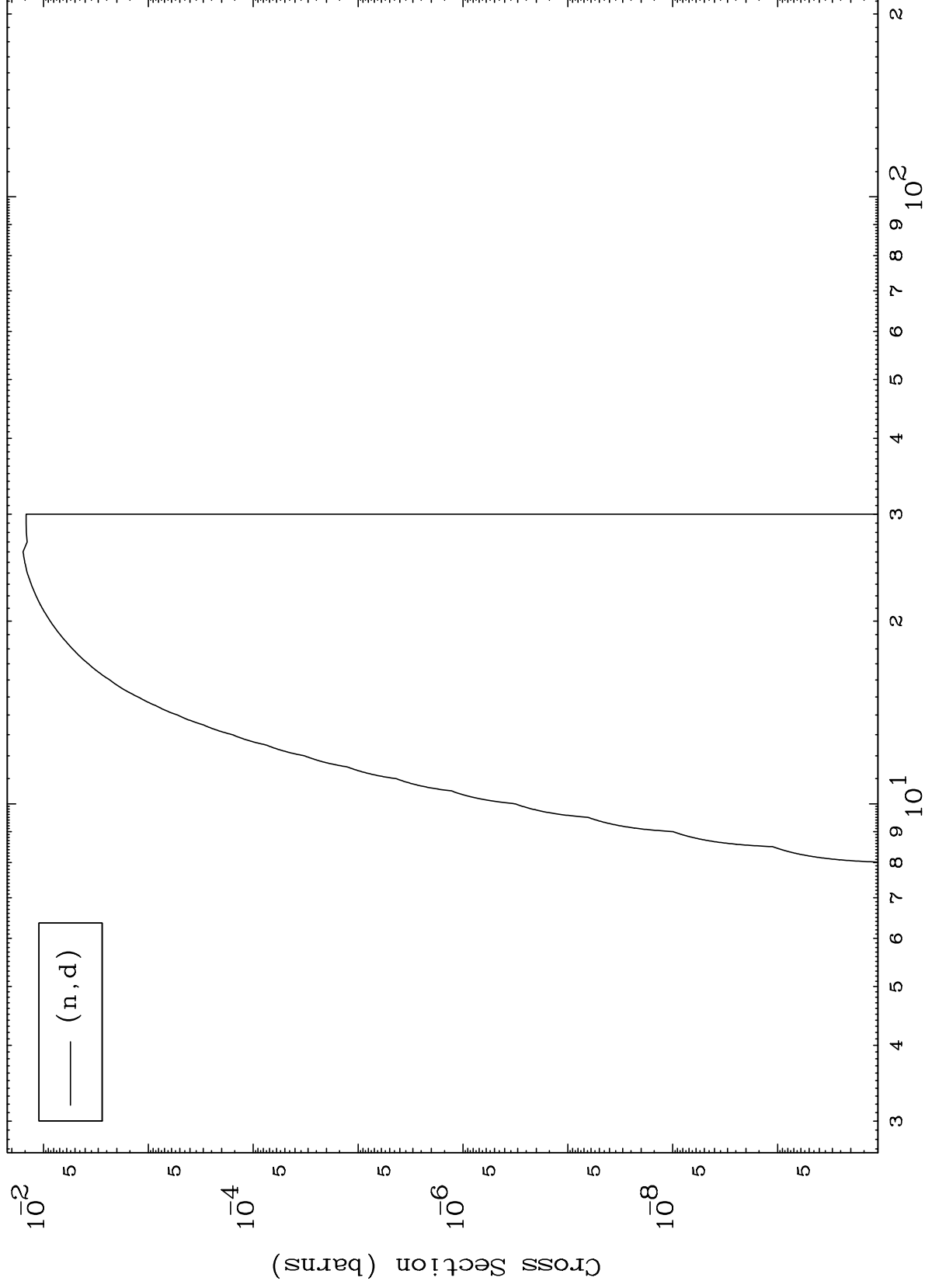
Incident Energy (MeV)

⁷⁹Au-196n

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$^{79}\text{Au-196n}$

(n,d) Levels
293 Kelvin Cross Sections



13

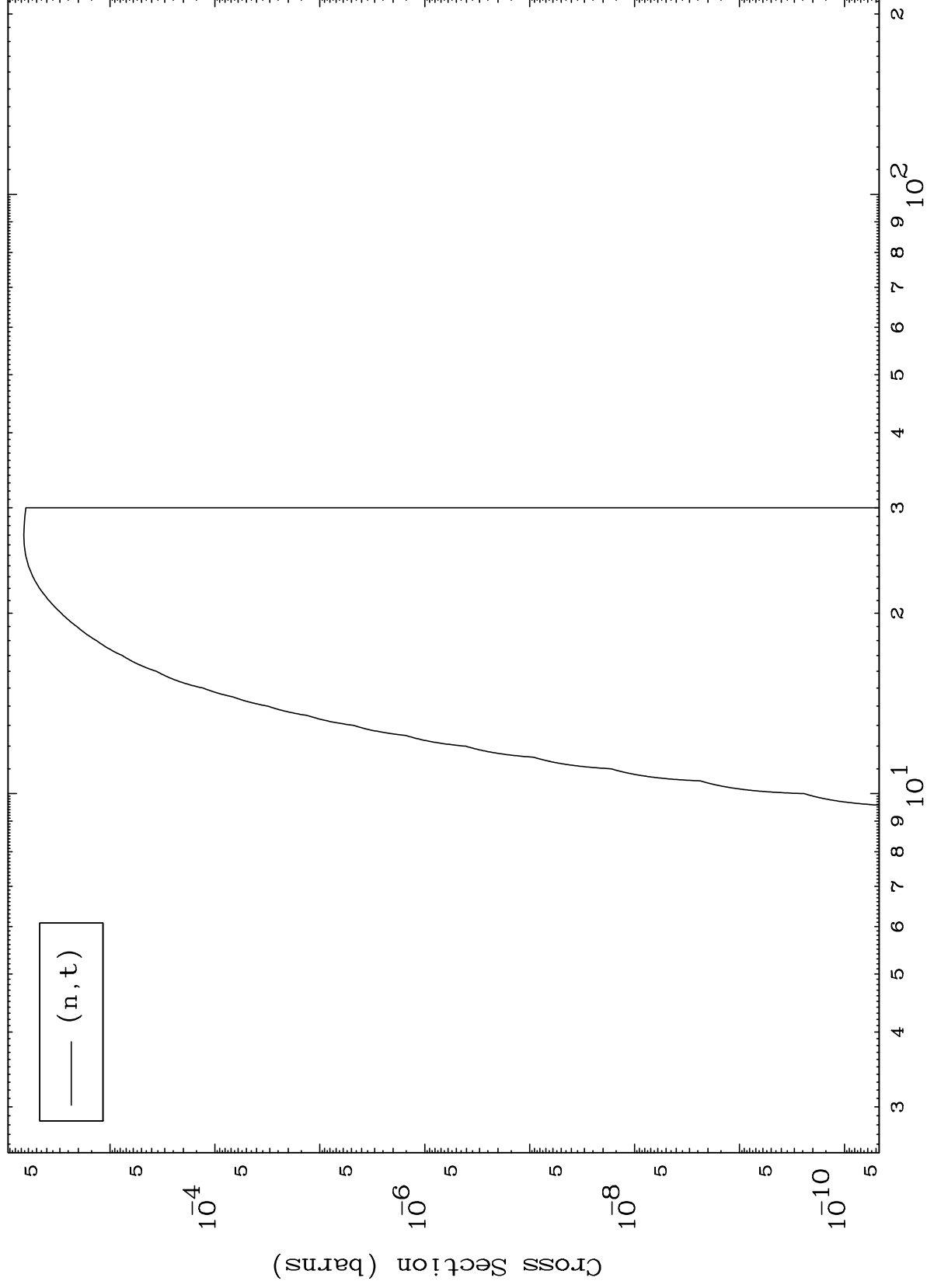
Incident Energy (MeV)

$^{79}\text{Au-196n}$

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⁷⁹Au-196n

(n,t) Levels
293 Kelvin Cross Sections



⁷⁹Au-196n

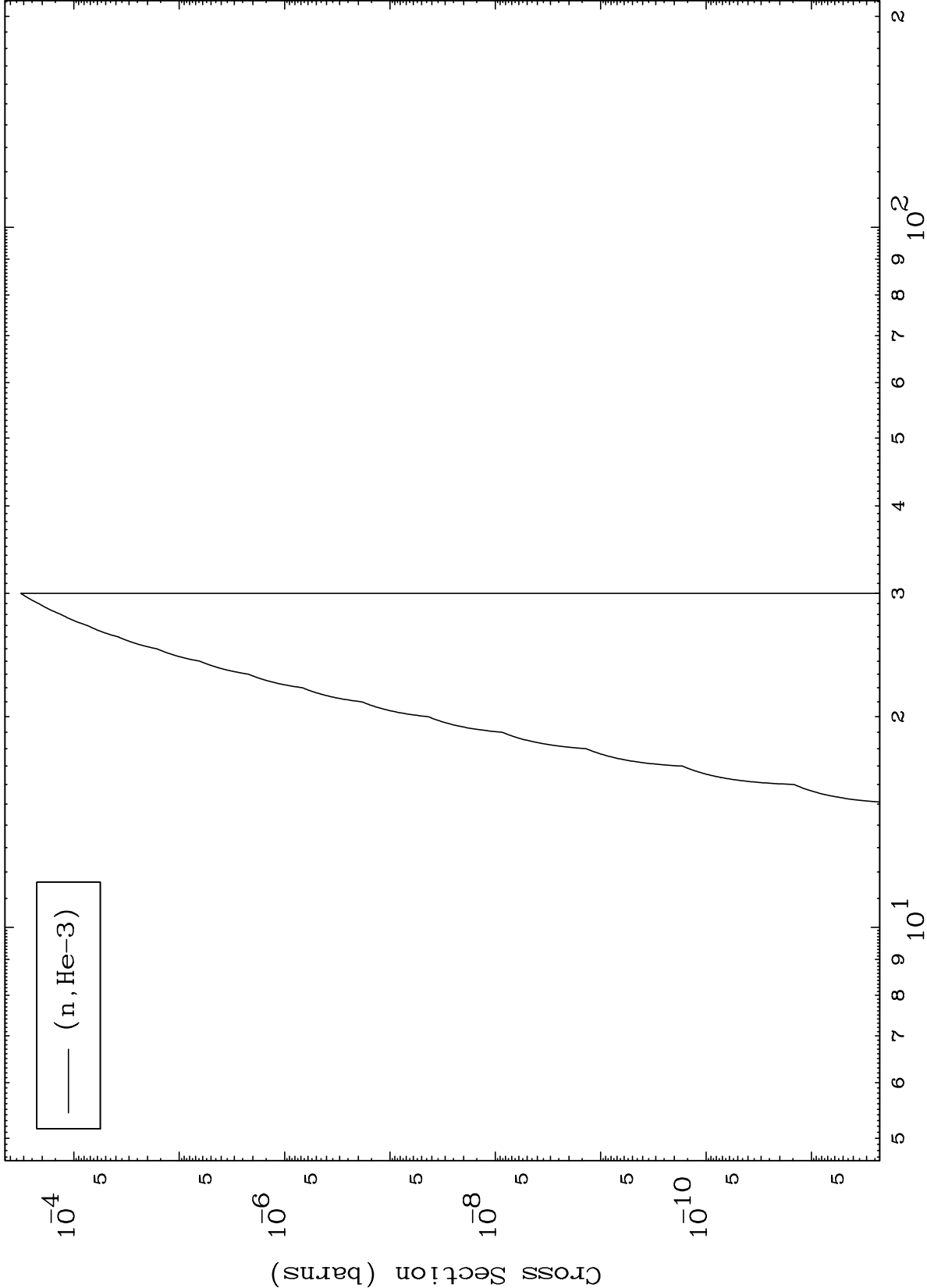
Incident Energy (MeV)

14

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(n,He3) Levels
293 Kelvin Cross Sections

79-Au-196n



15

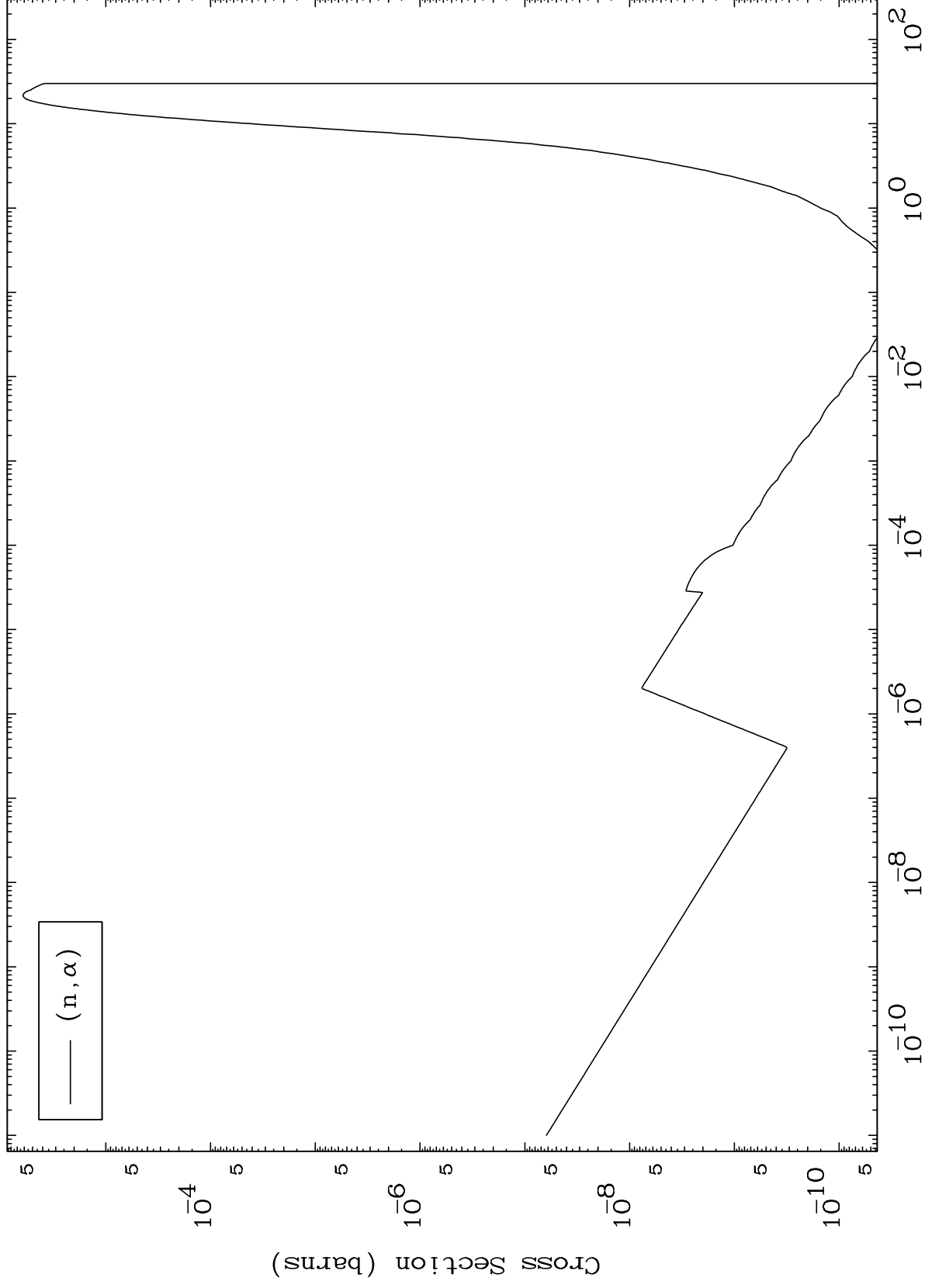
Incident Energy (MeV)

79-Au-196n

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(n, α) Levels
293 Kelvin Cross Sections

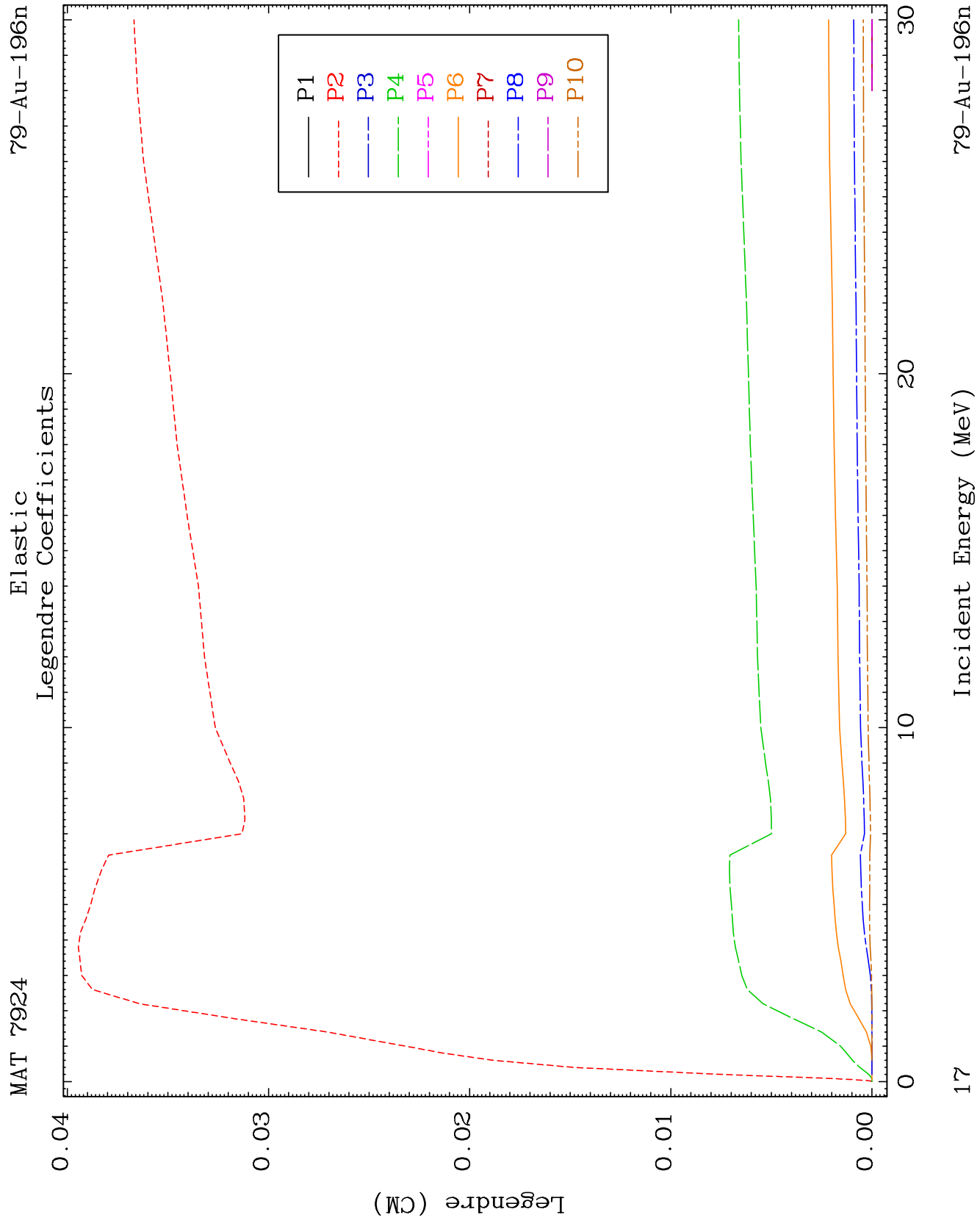
$^{79}\text{Au}-196\text{n}$

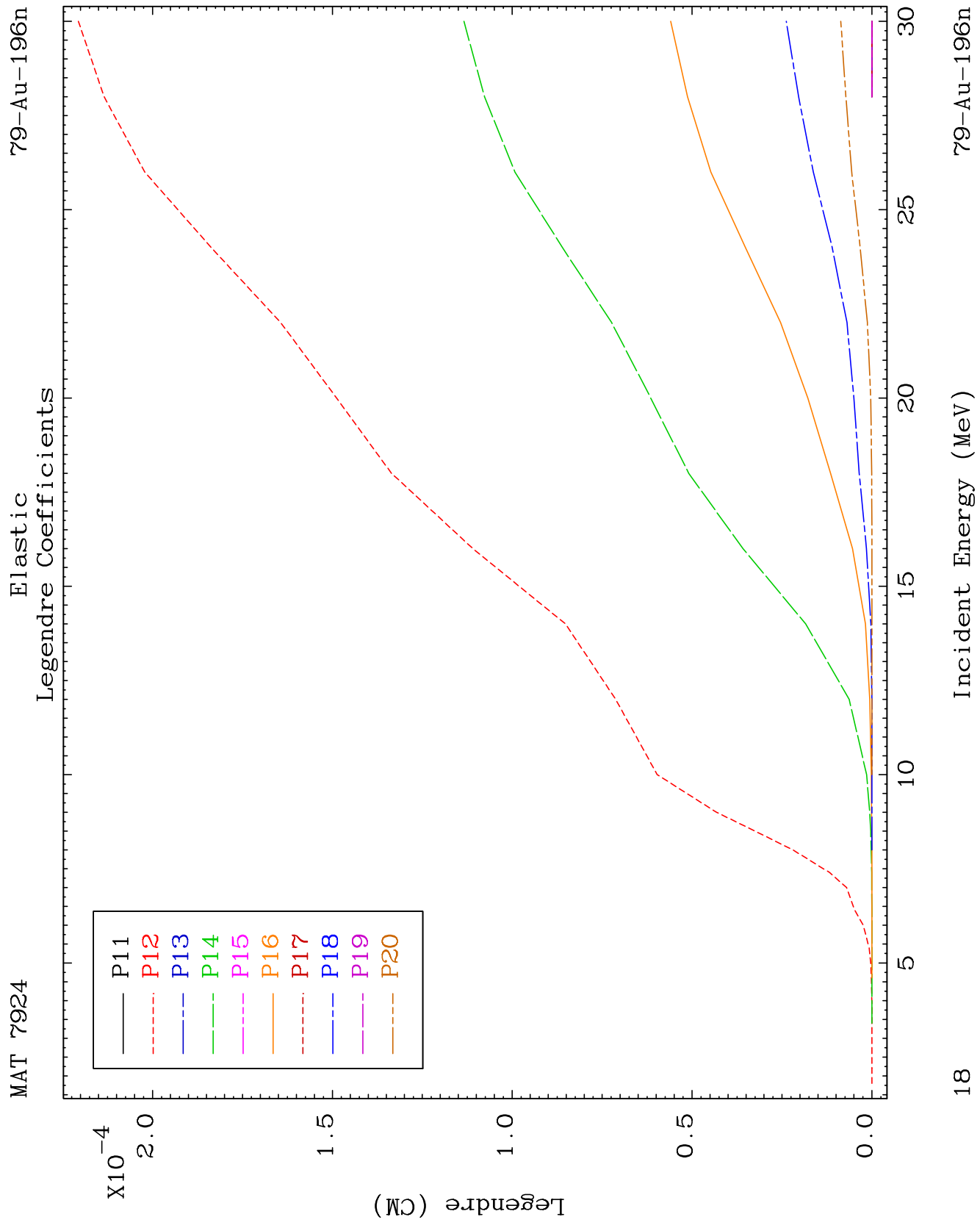


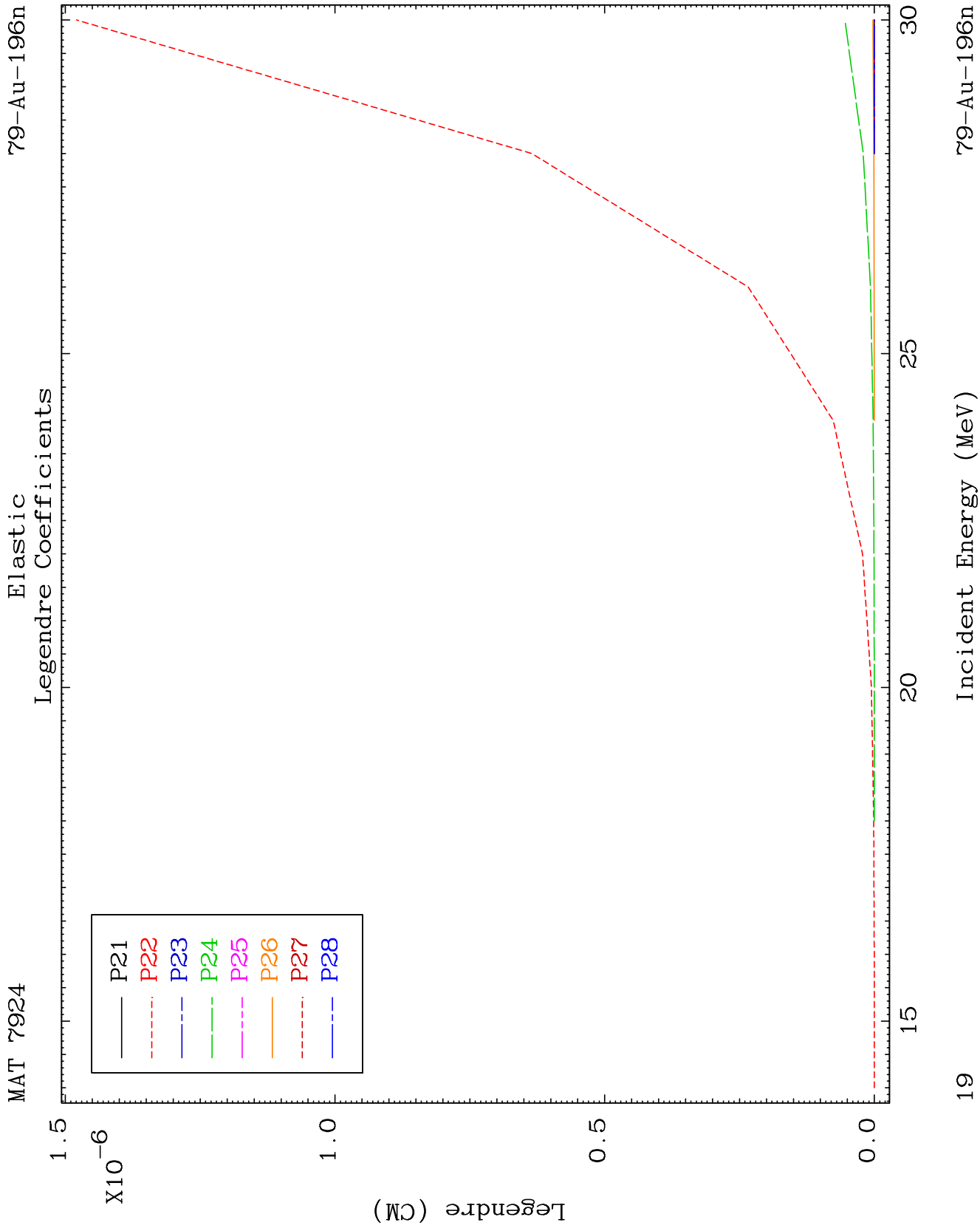
16

Incident Energy (MeV)

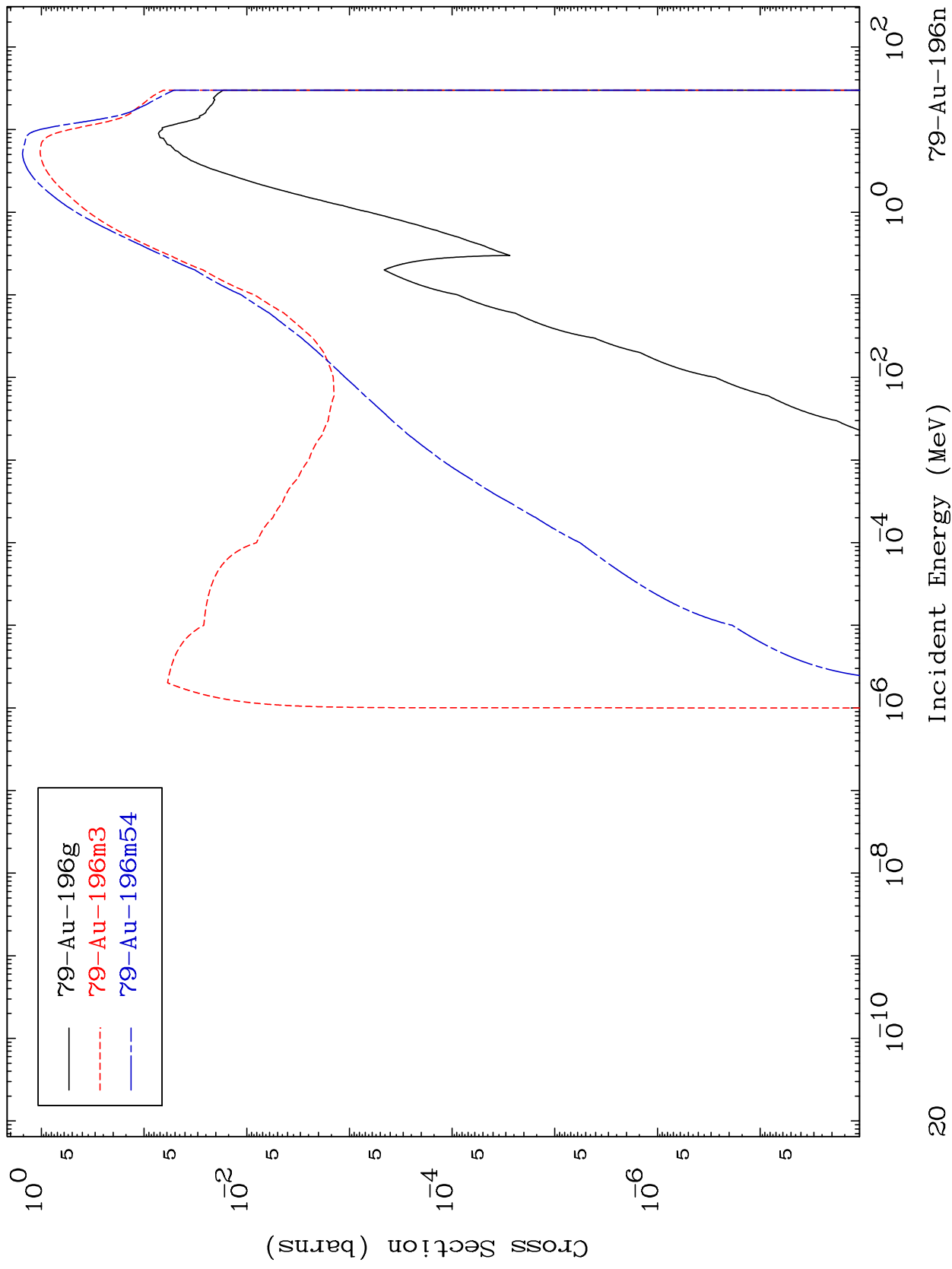
$^{79}\text{Au}-196\text{n}$



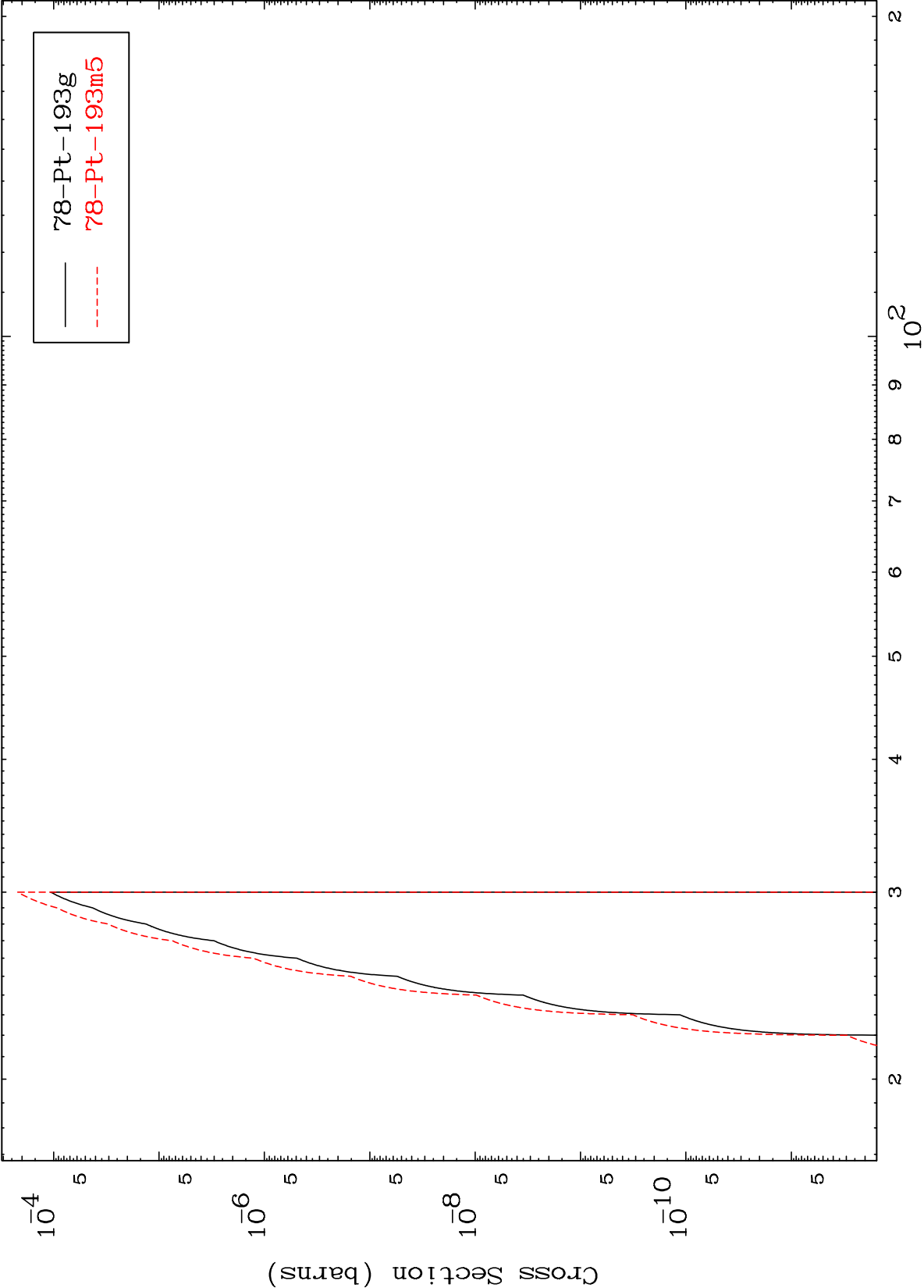


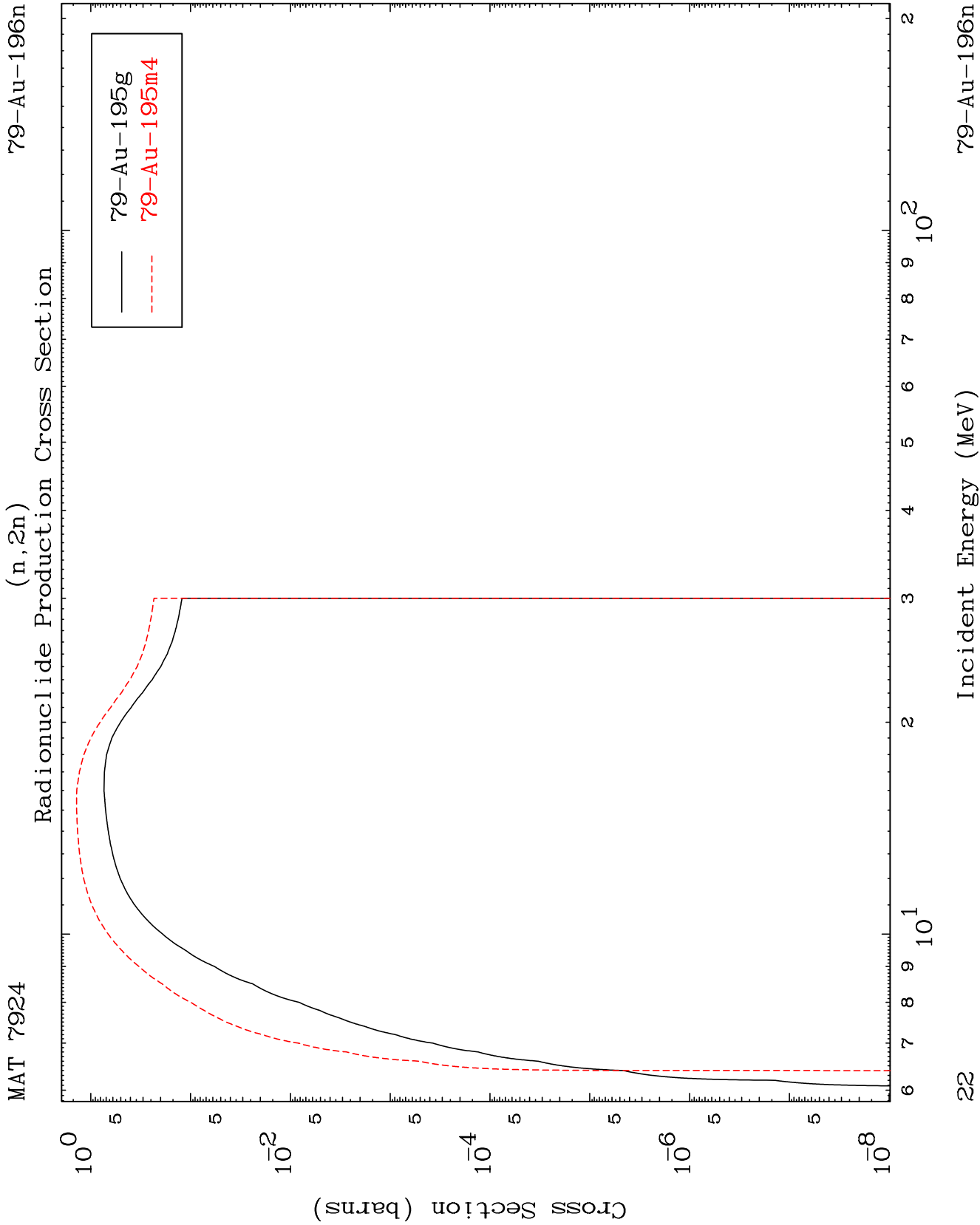


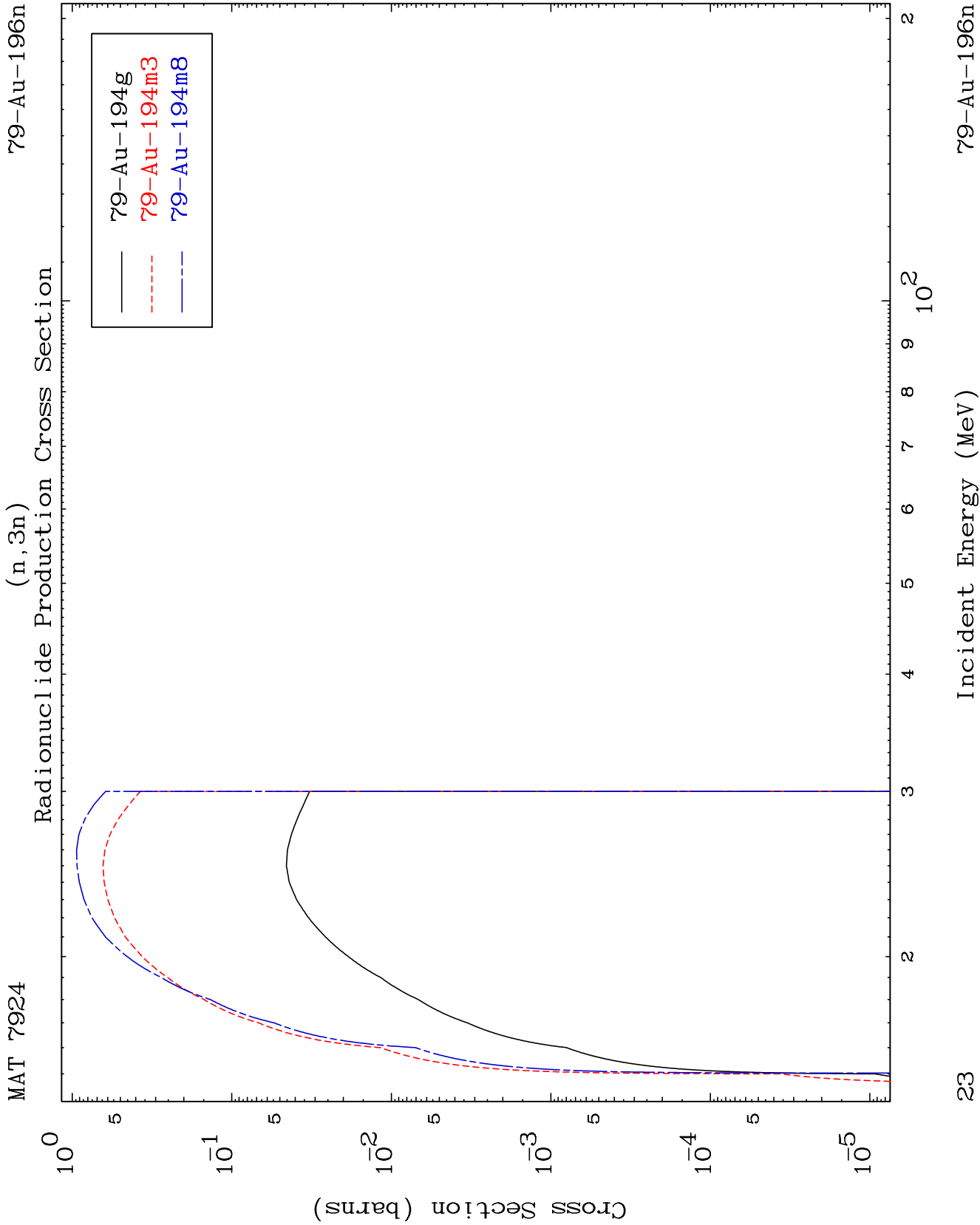
Radionuclide Production Cross Section



Radionuclide Production Cross Section





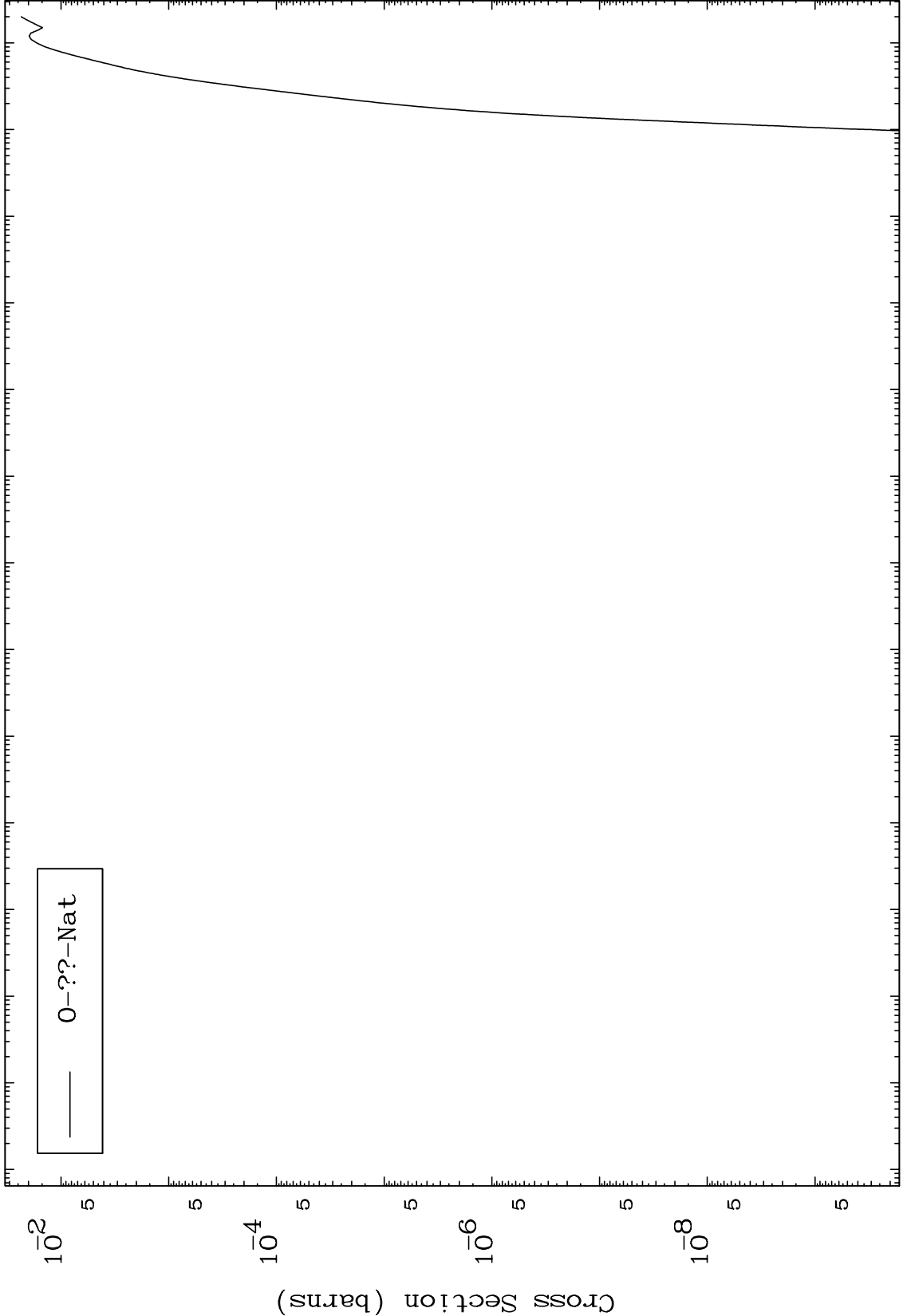


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Fission

⁷⁹Au-196n

Radionuclide Production Cross Section

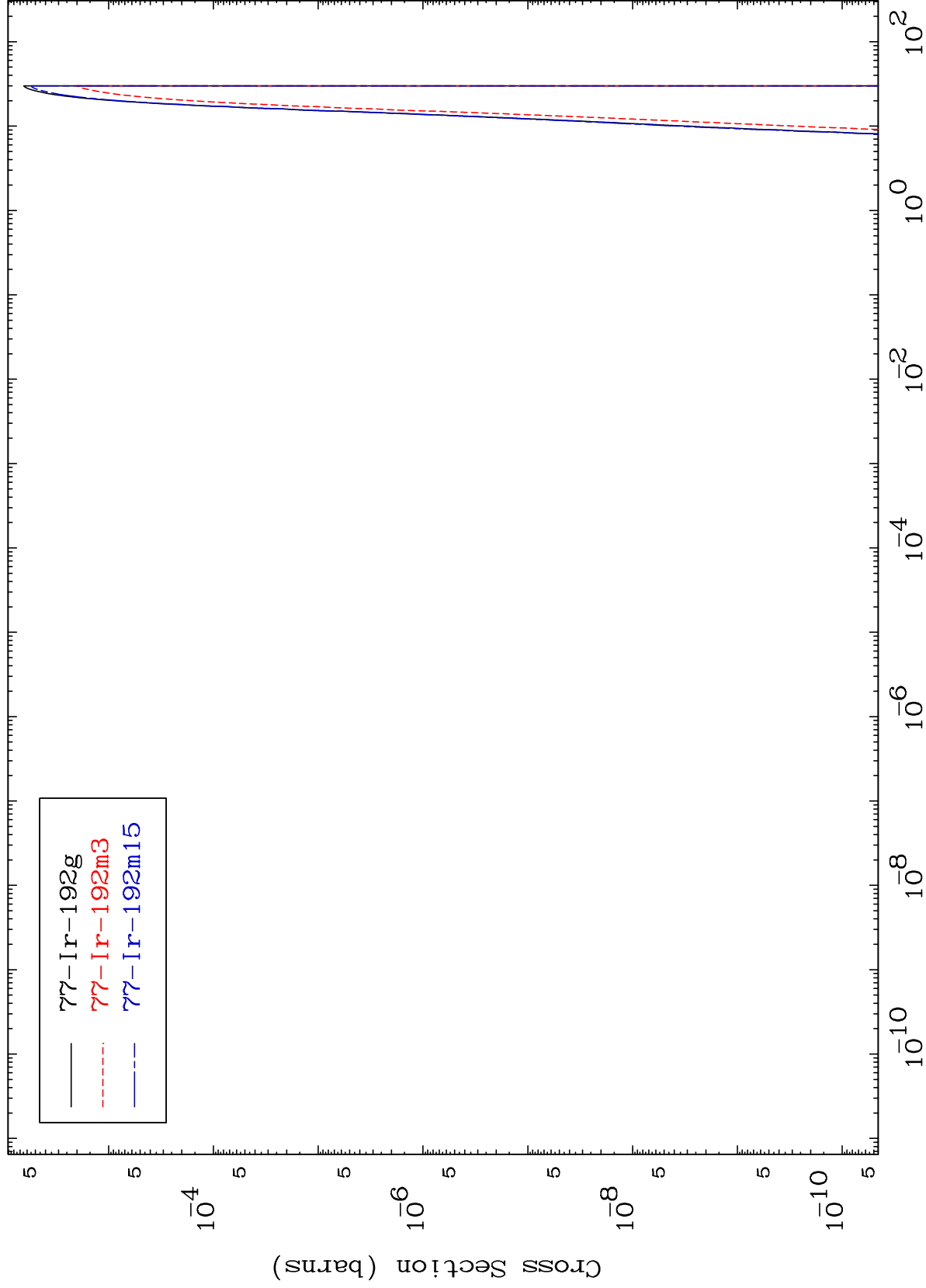


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$^{79}\text{Au}-196\text{n}$

$(\text{n}, \text{n}') \alpha$

Radionuclide Production Cross Section

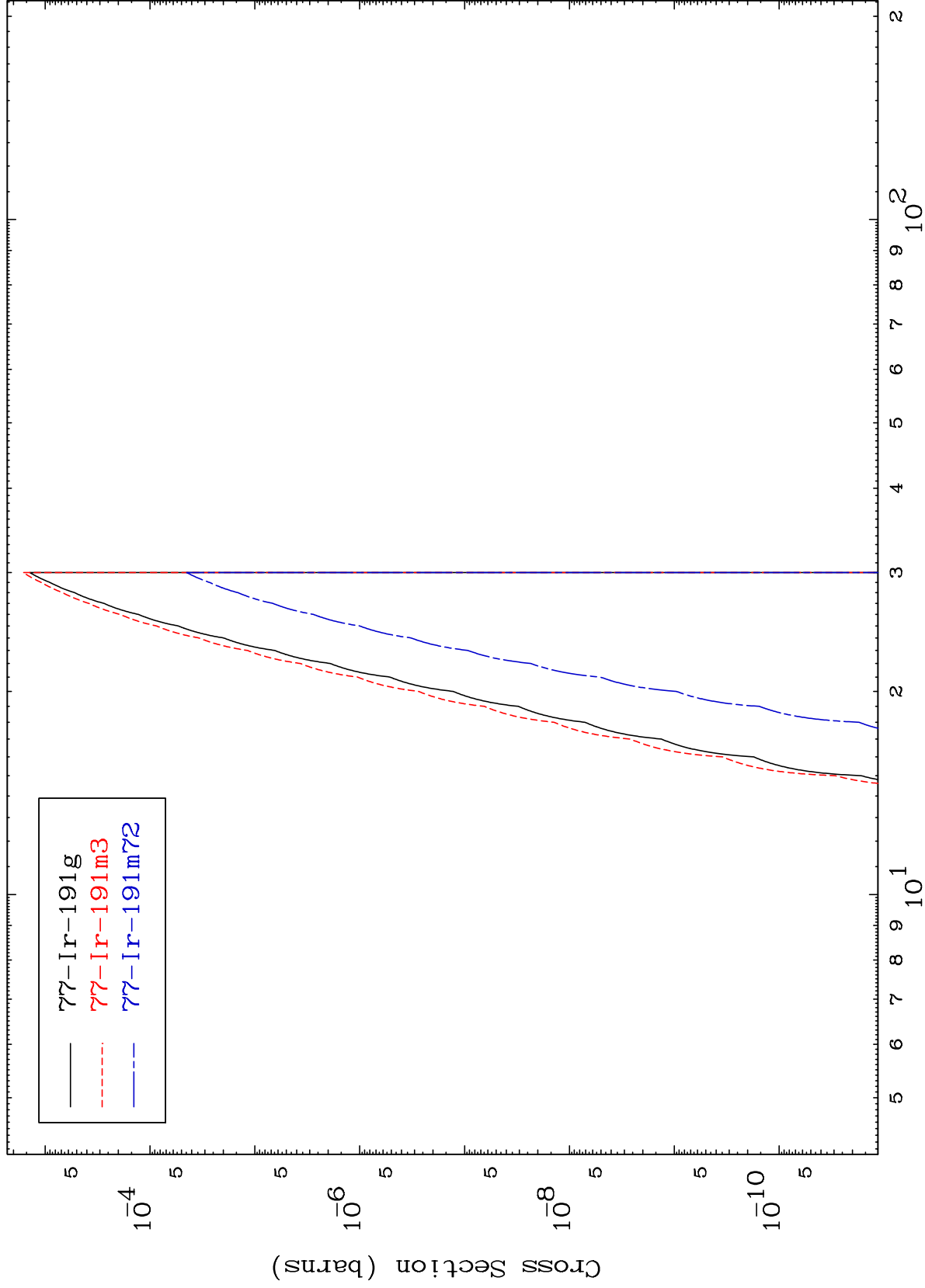


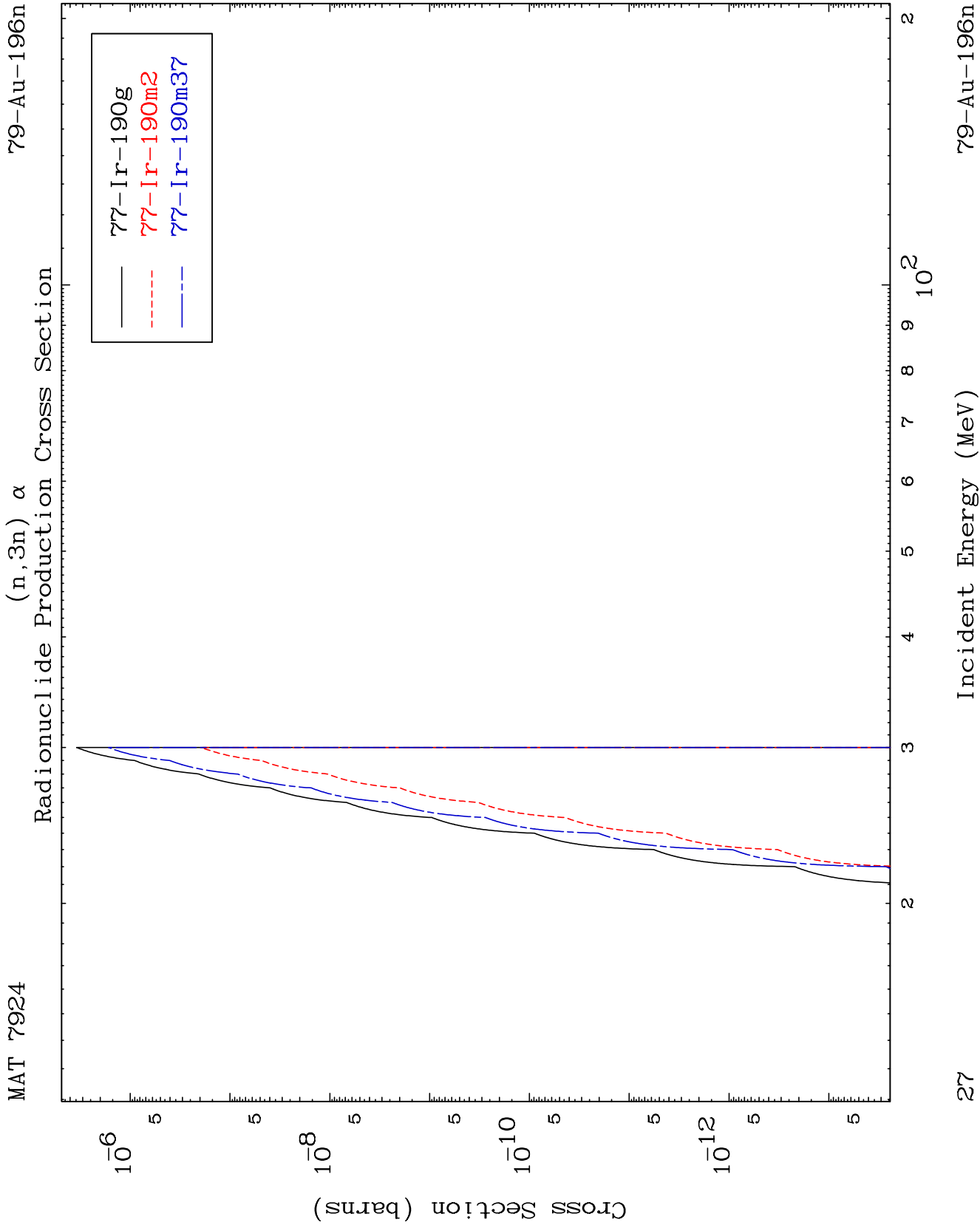
25

Incident Energy (MeV)

$^{79}\text{Au}-196\text{n}$

$(\text{n},2\text{n}) \alpha$
Radionuclide Production Cross Section

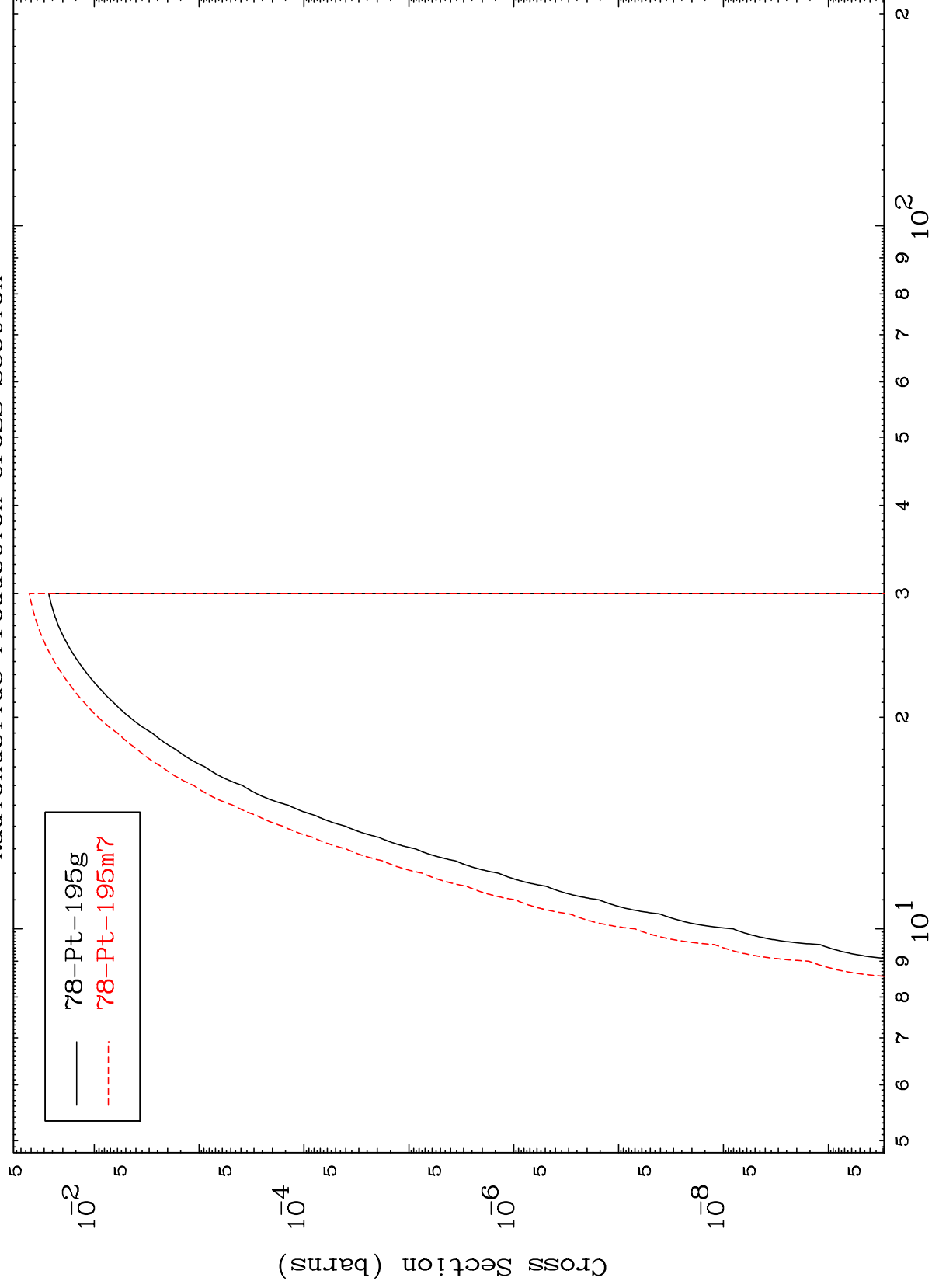




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$^{79}\text{Au-196n}$

Radionuclide Production Cross Section



28

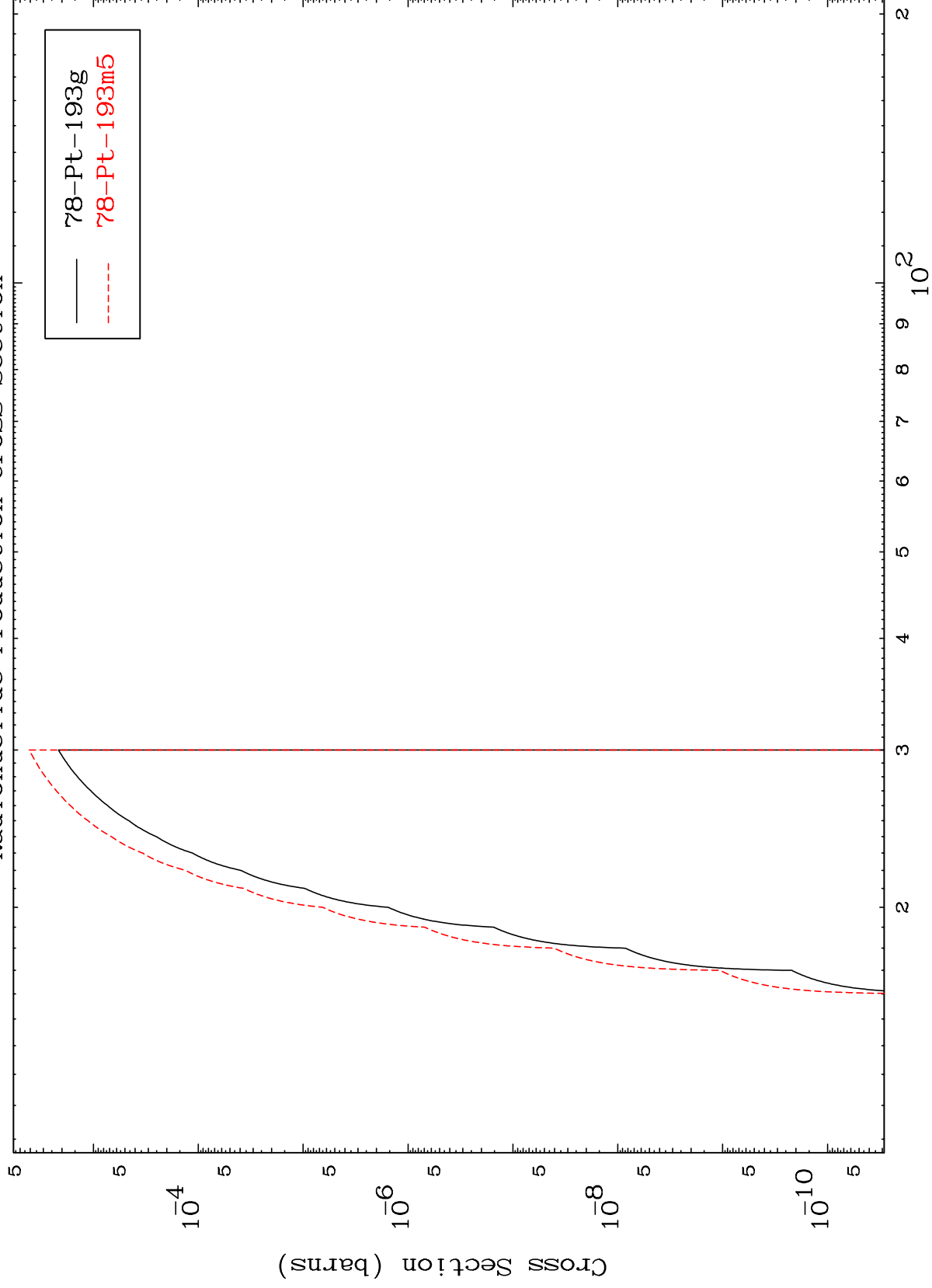
Incident Energy (MeV)

$^{79}\text{Au-196n}$

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$^{79}\text{Au-196n}$

$(n,n')\ t$
Radionuclide Production Cross Section

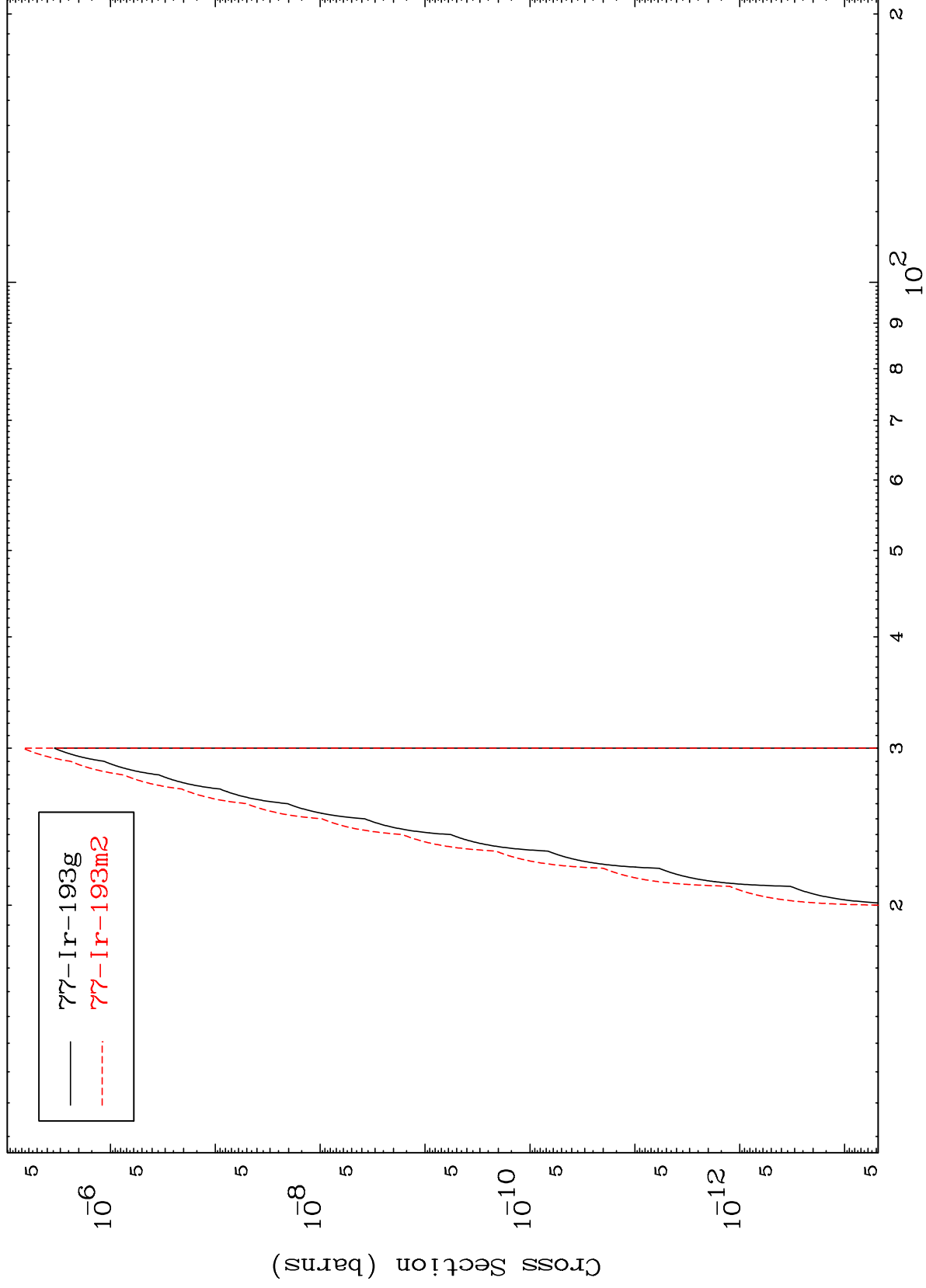


29

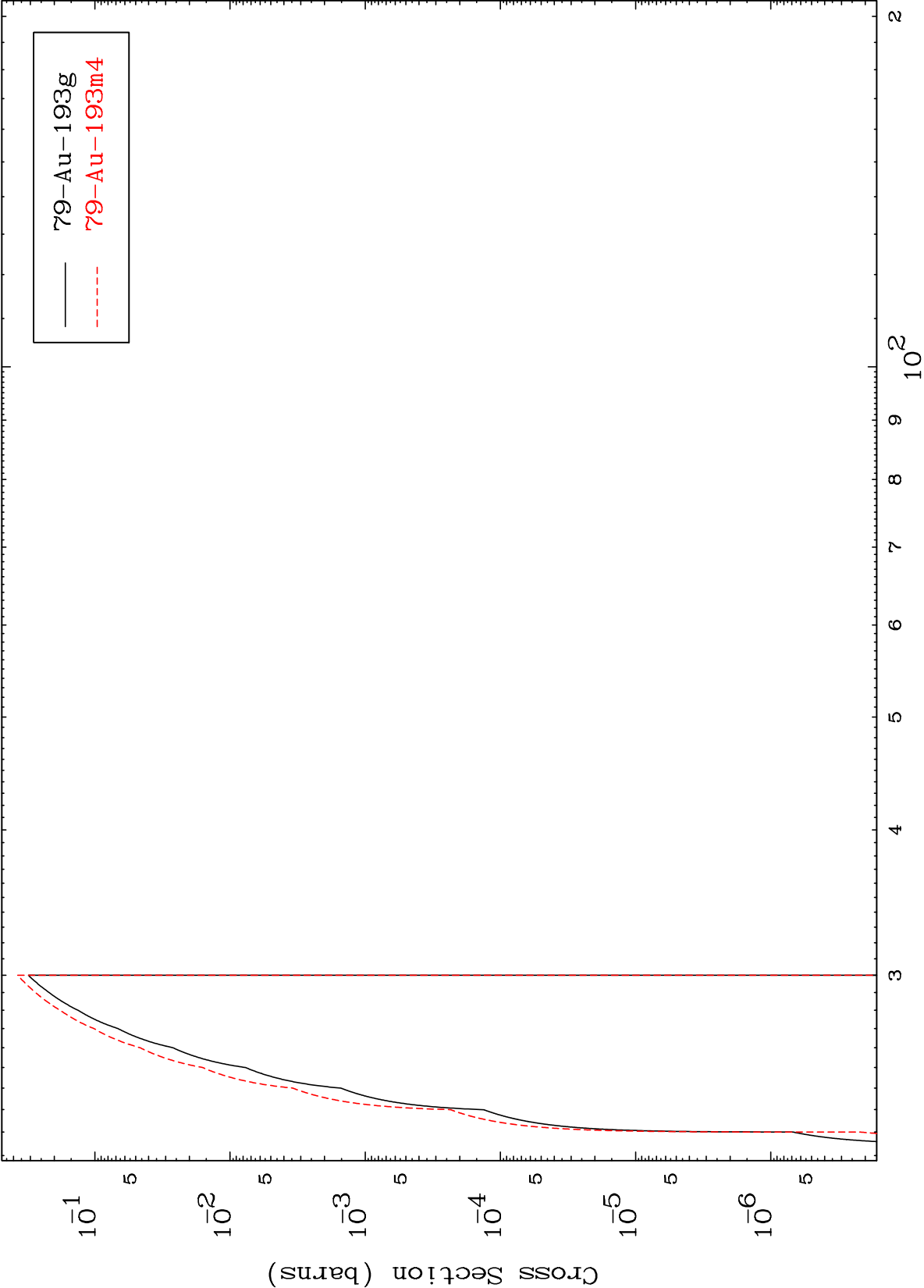
Incident Energy (MeV)

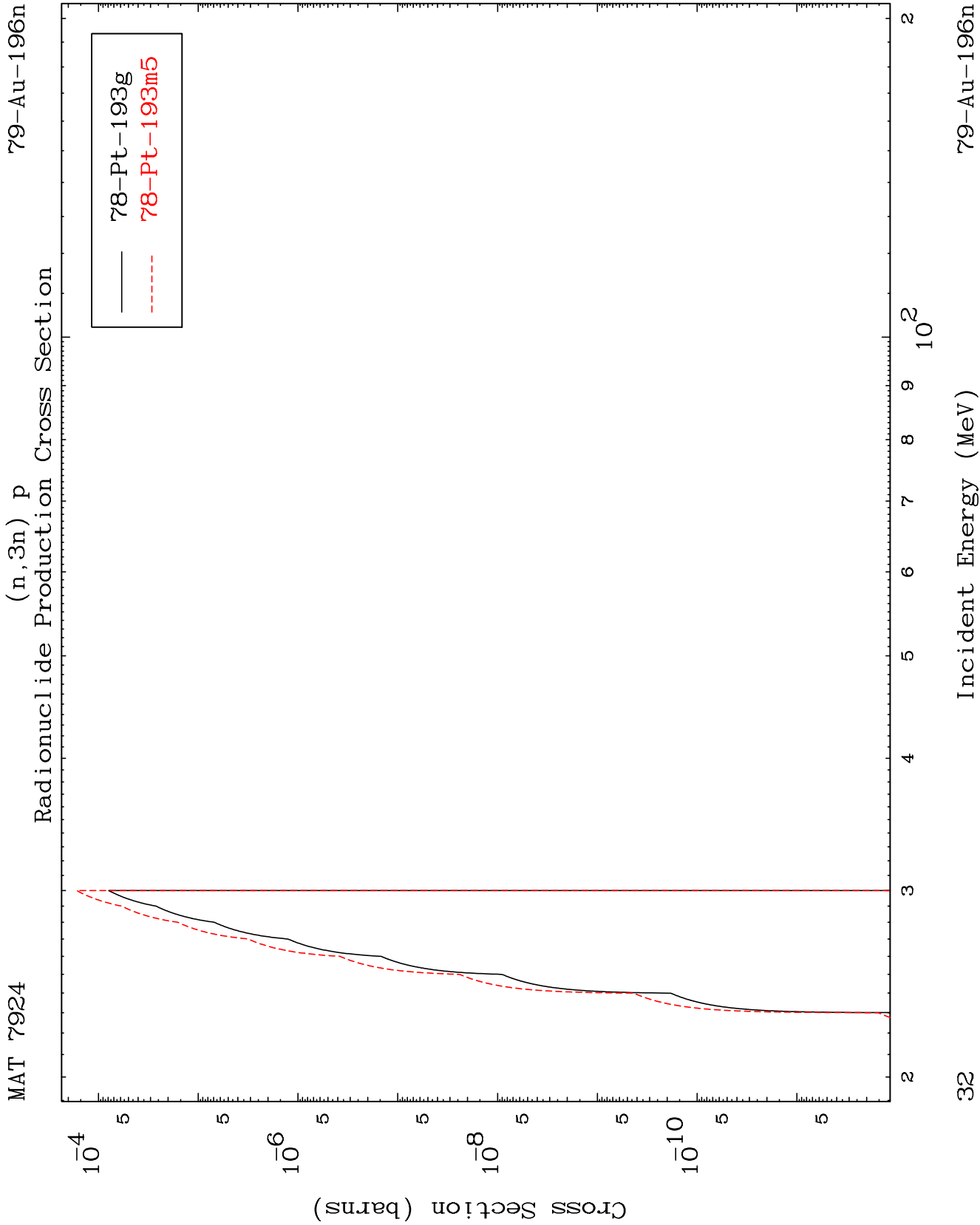
$^{79}\text{Au-196n}$

Radionuclide Production Cross Section

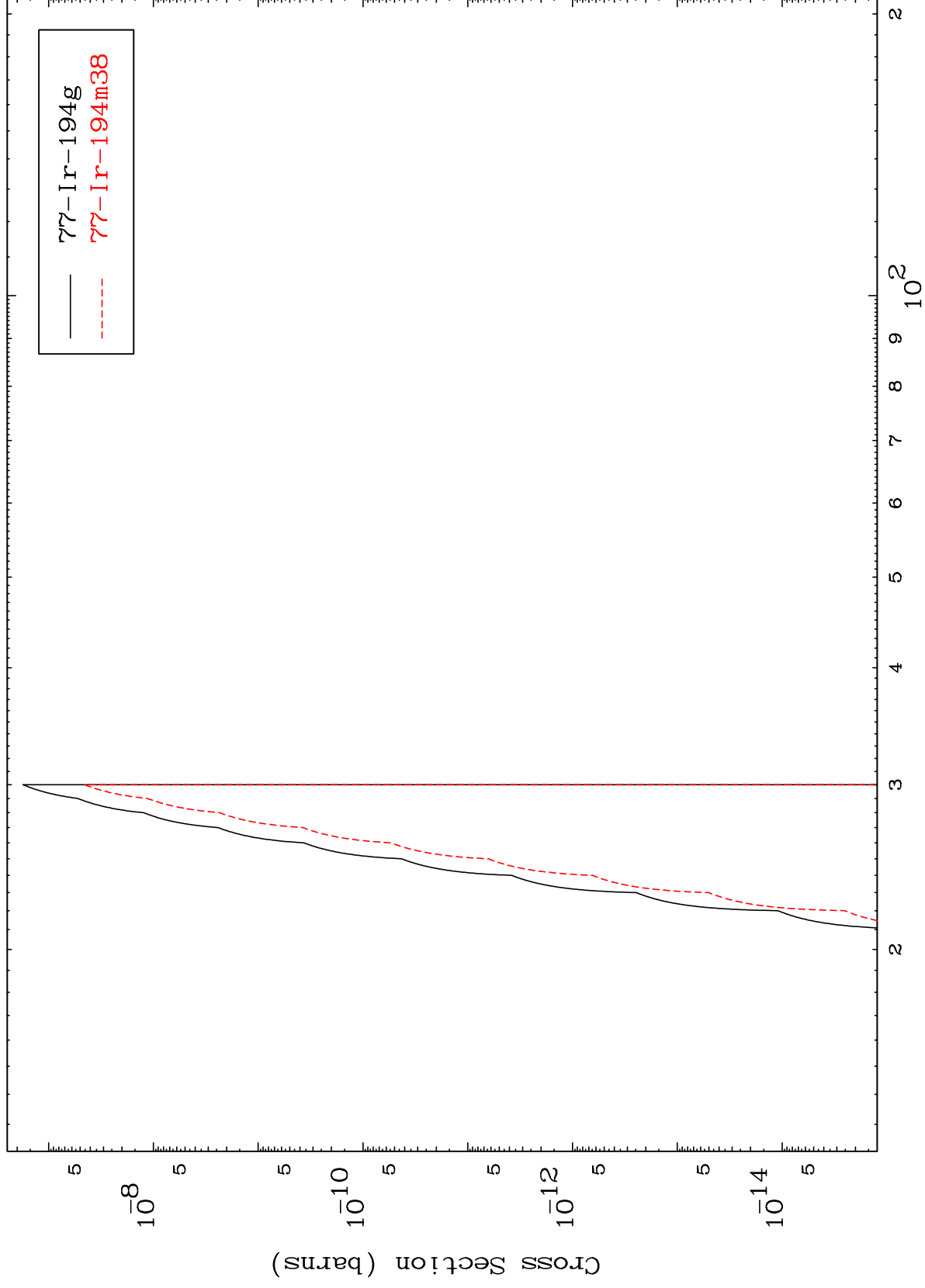


^(n,4n)
Radionuclide Production Cross Section





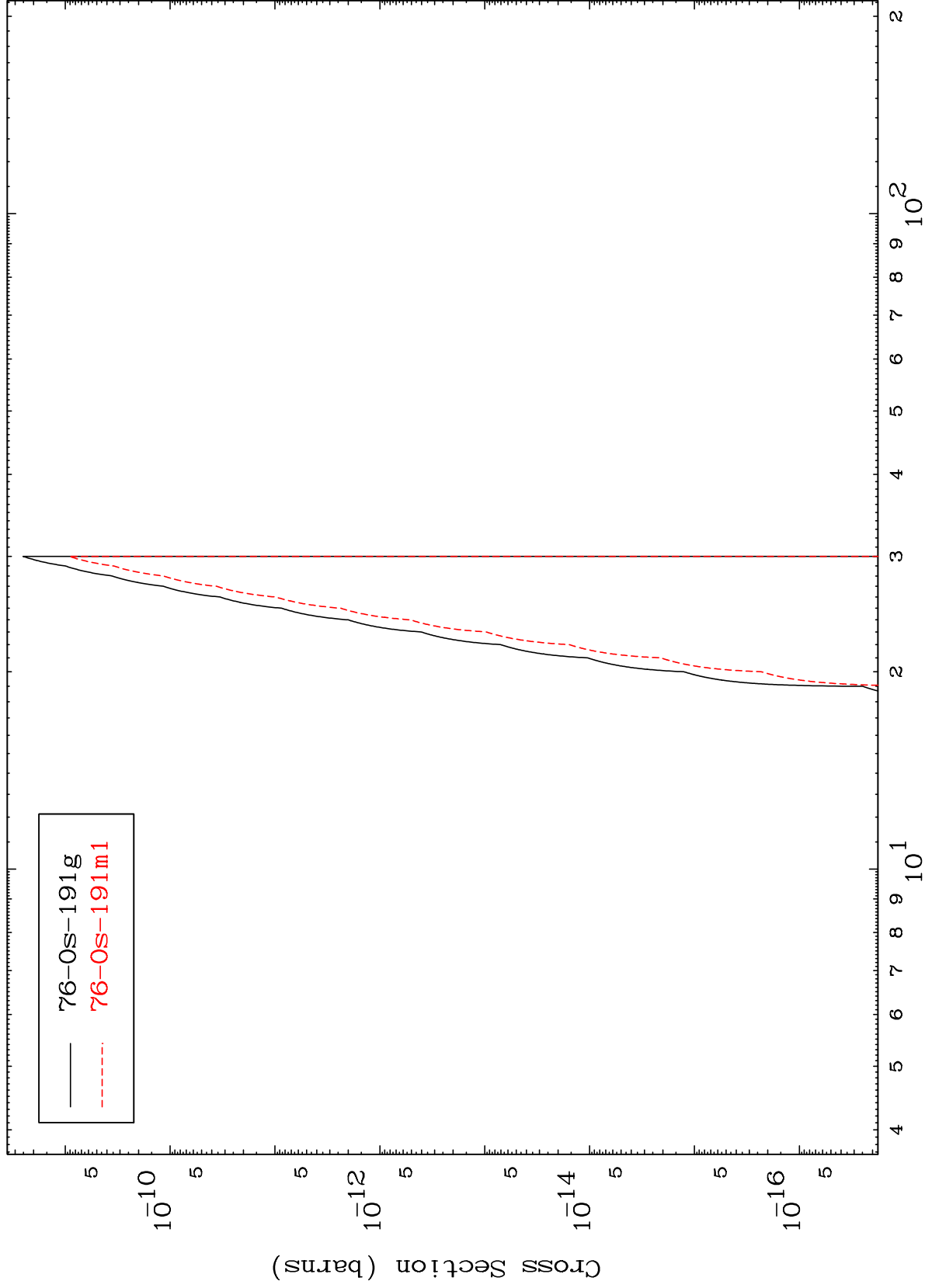
(n,2n) p
Radionuclide Production Cross Section



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$^{79}\text{Au-196n}$

$(n,n')\ p\ \alpha$
Radionuclide Production Cross Section



34

Incident Energy (MeV)

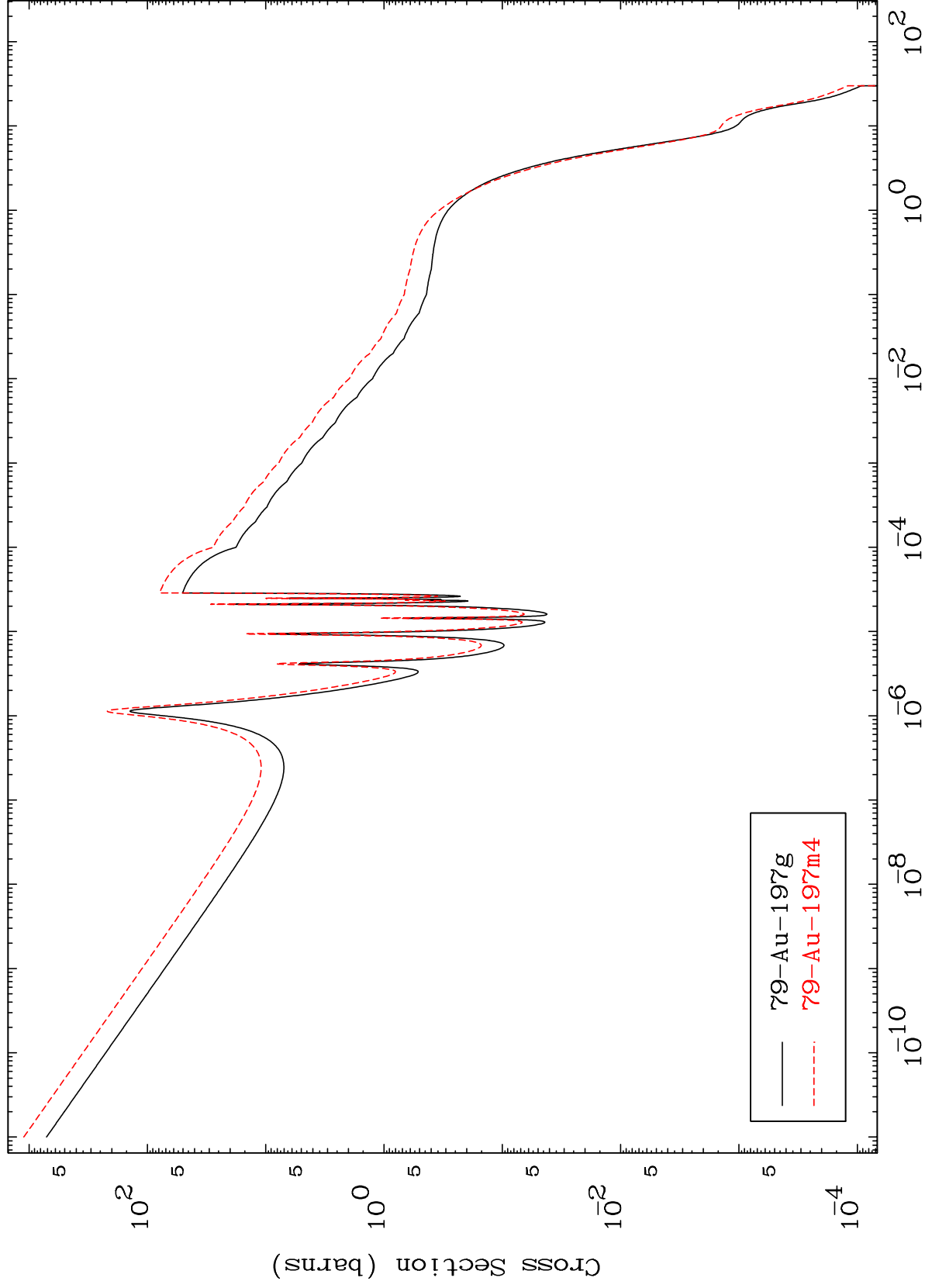
$^{79}\text{Au-196n}$

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$^{79}\text{Au-196n}$

Radionuclide Production Cross Section

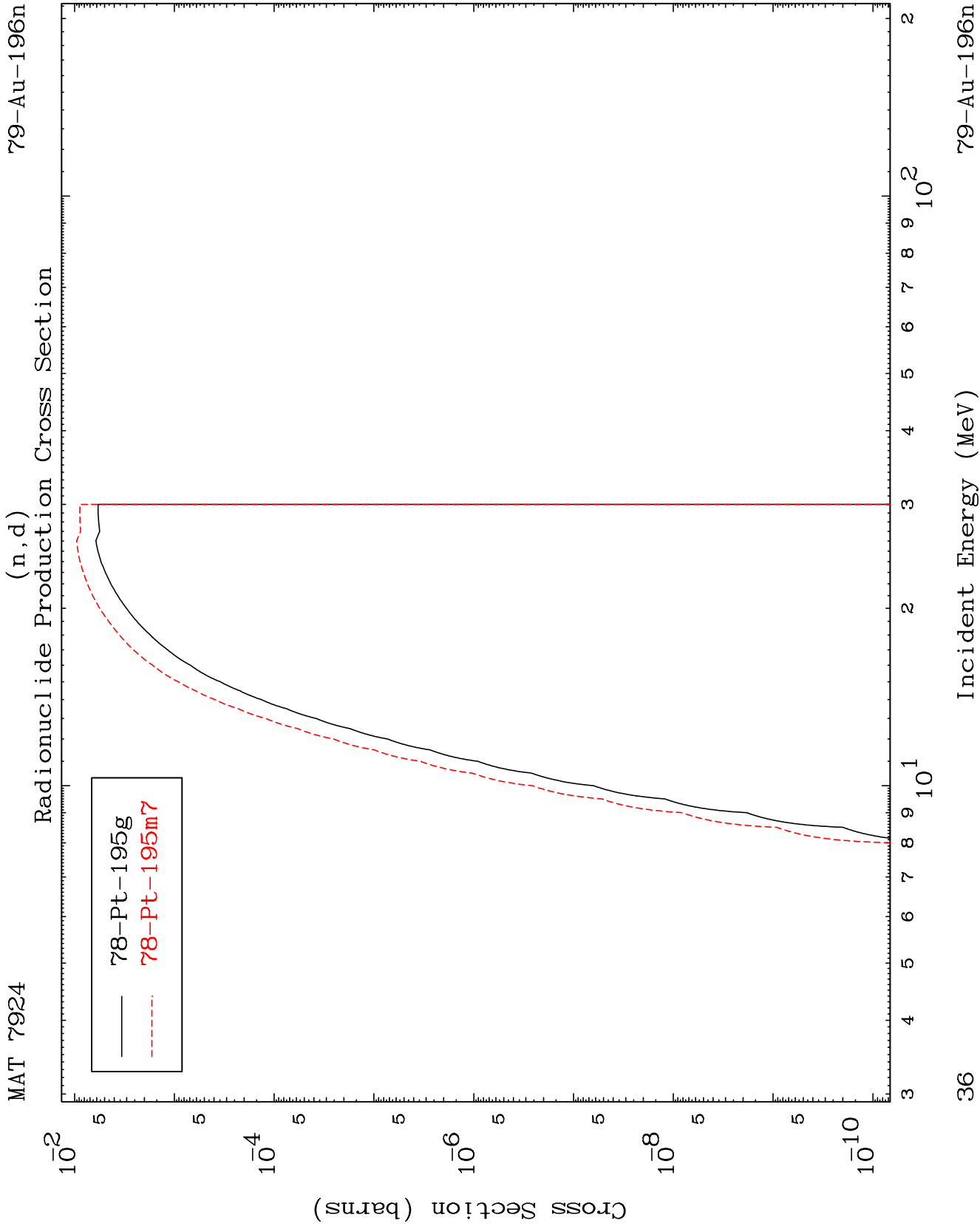
(n, γ)



35

Incident Energy (MeV)

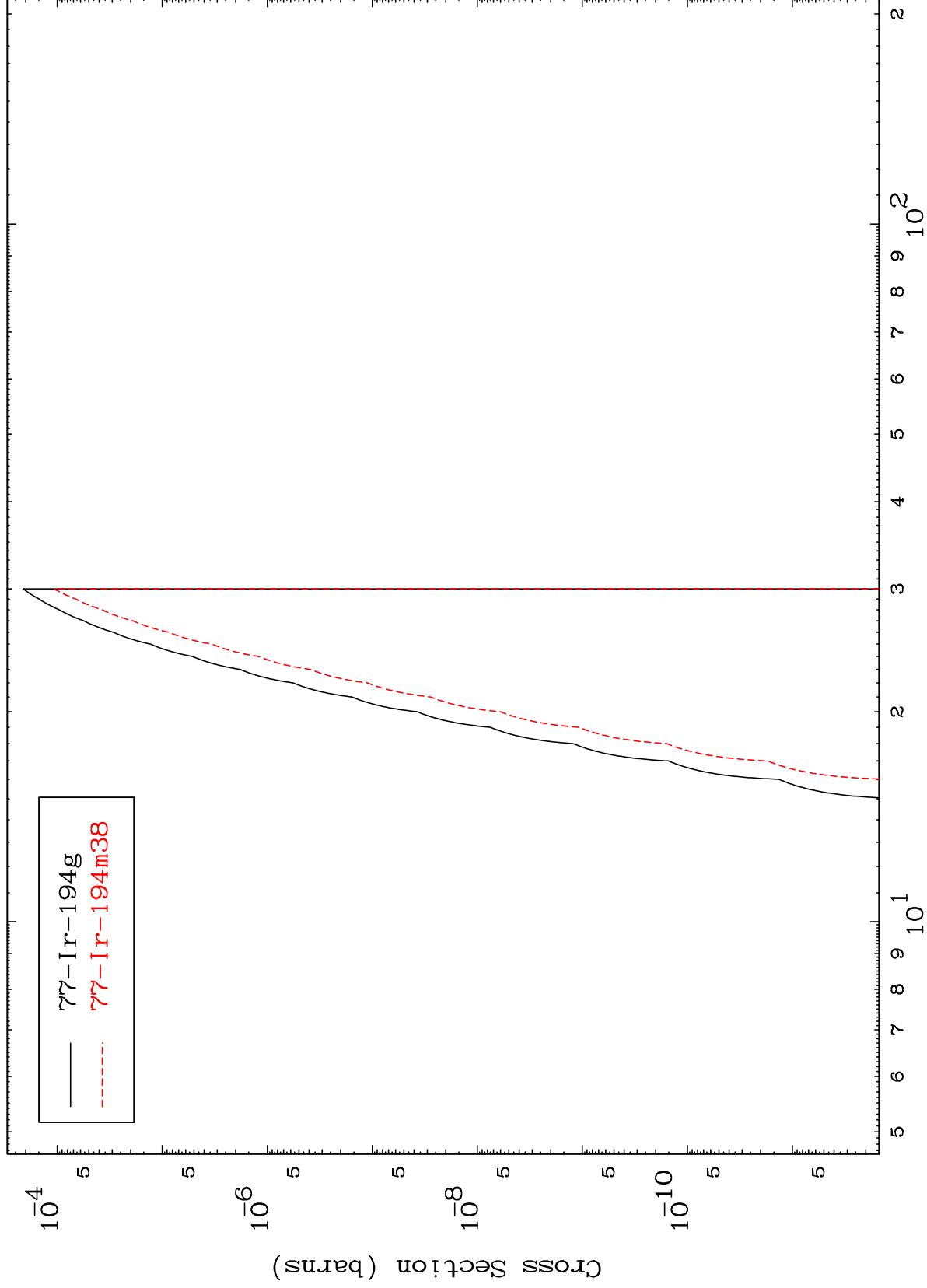
$^{79}\text{Au-196n}$



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$^{79}\text{Au-196n}$

Radionuclide Production Cross Section

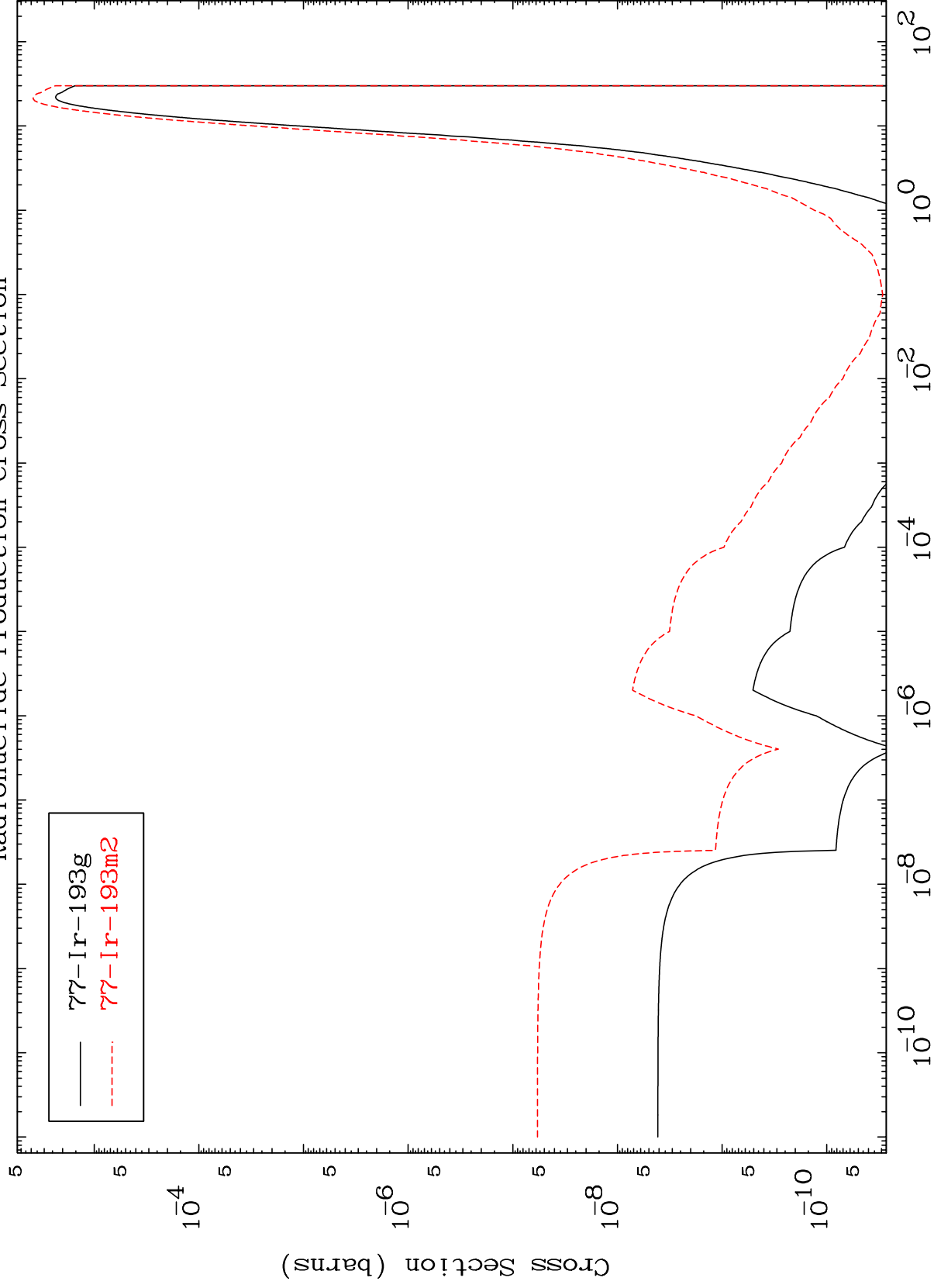


37

Incident Energy (MeV)

$^{79}\text{Au-196n}$

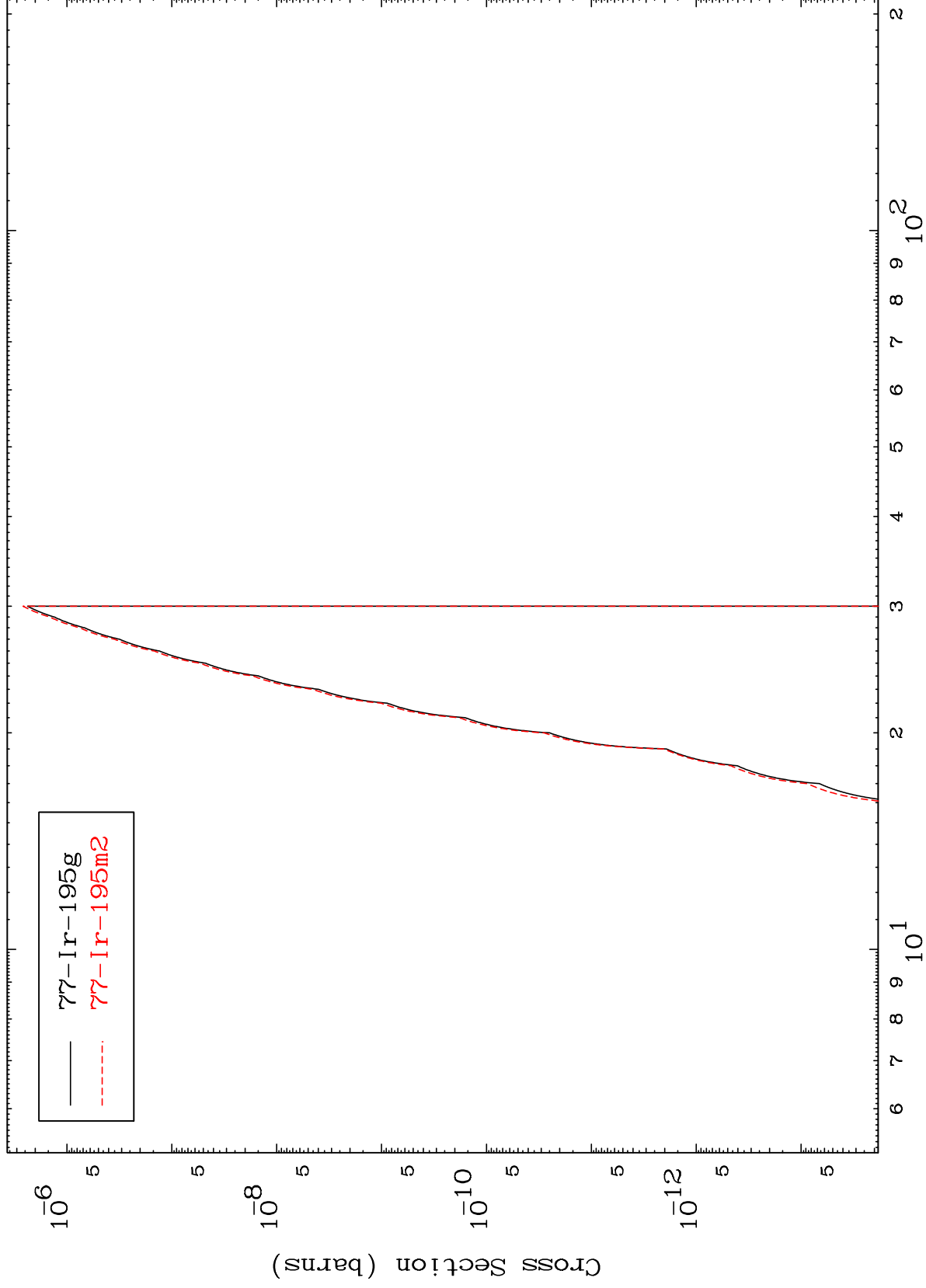
Radionuclide Production Cross Section (n,α)



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⁷⁹Au-196n

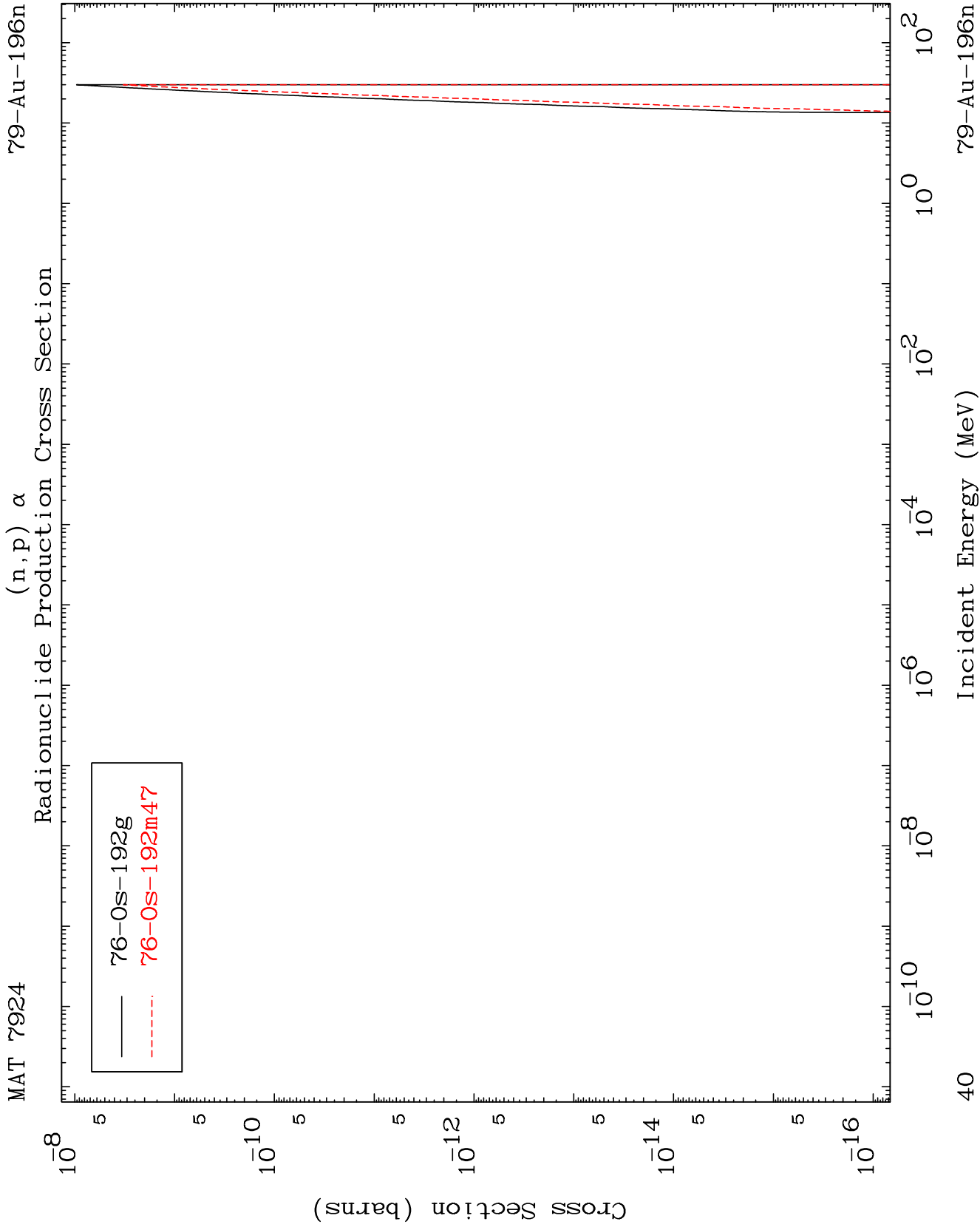
Radionuclide Production Cross Section (n,2p)



39

Incident Energy (MeV)

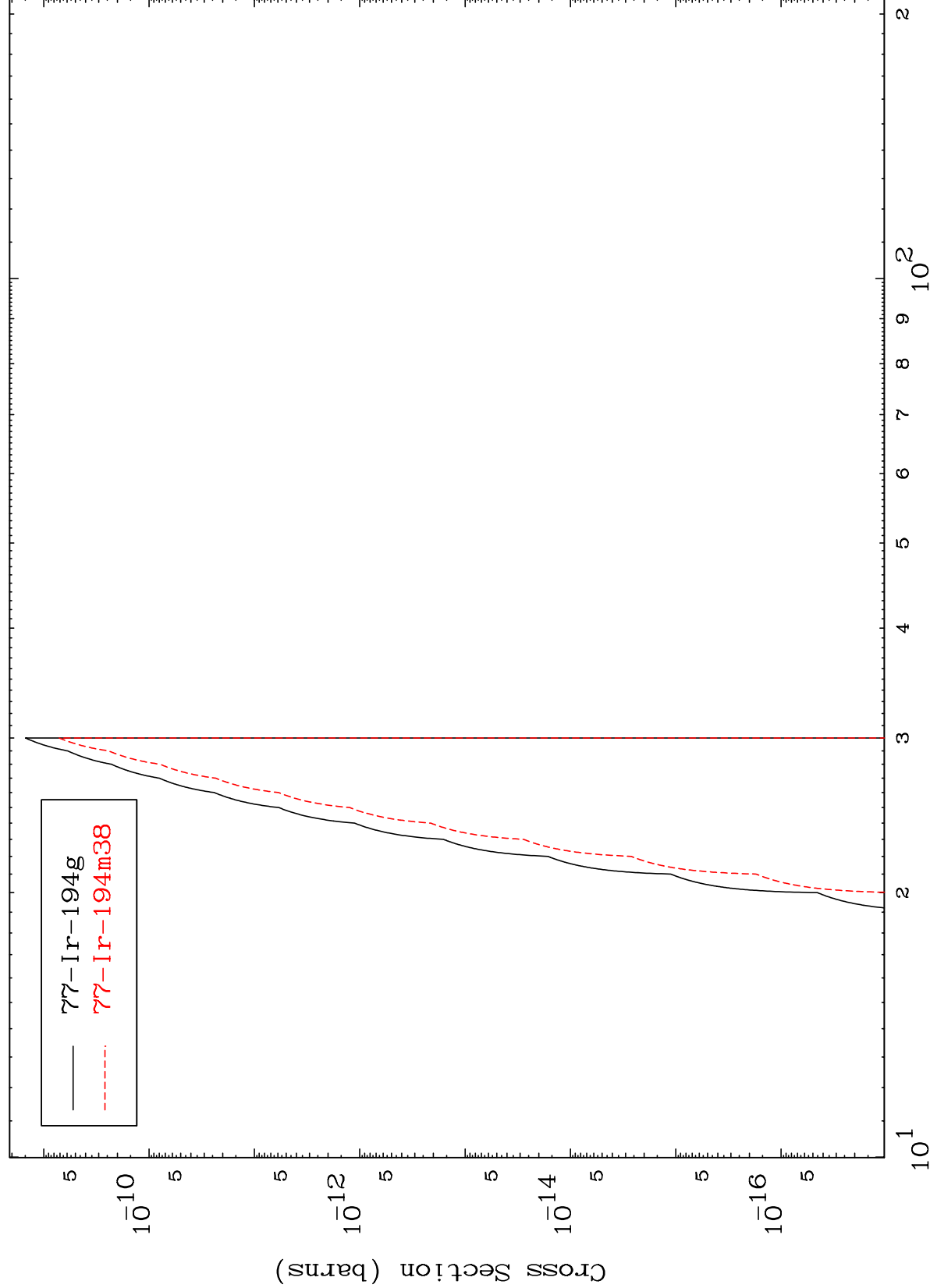
⁷⁹Au-196n



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⁷⁹Au-196n

(n,p) d
Radionuclide Production Cross Section



⁷⁹Au-196n

Incident Energy (MeV)

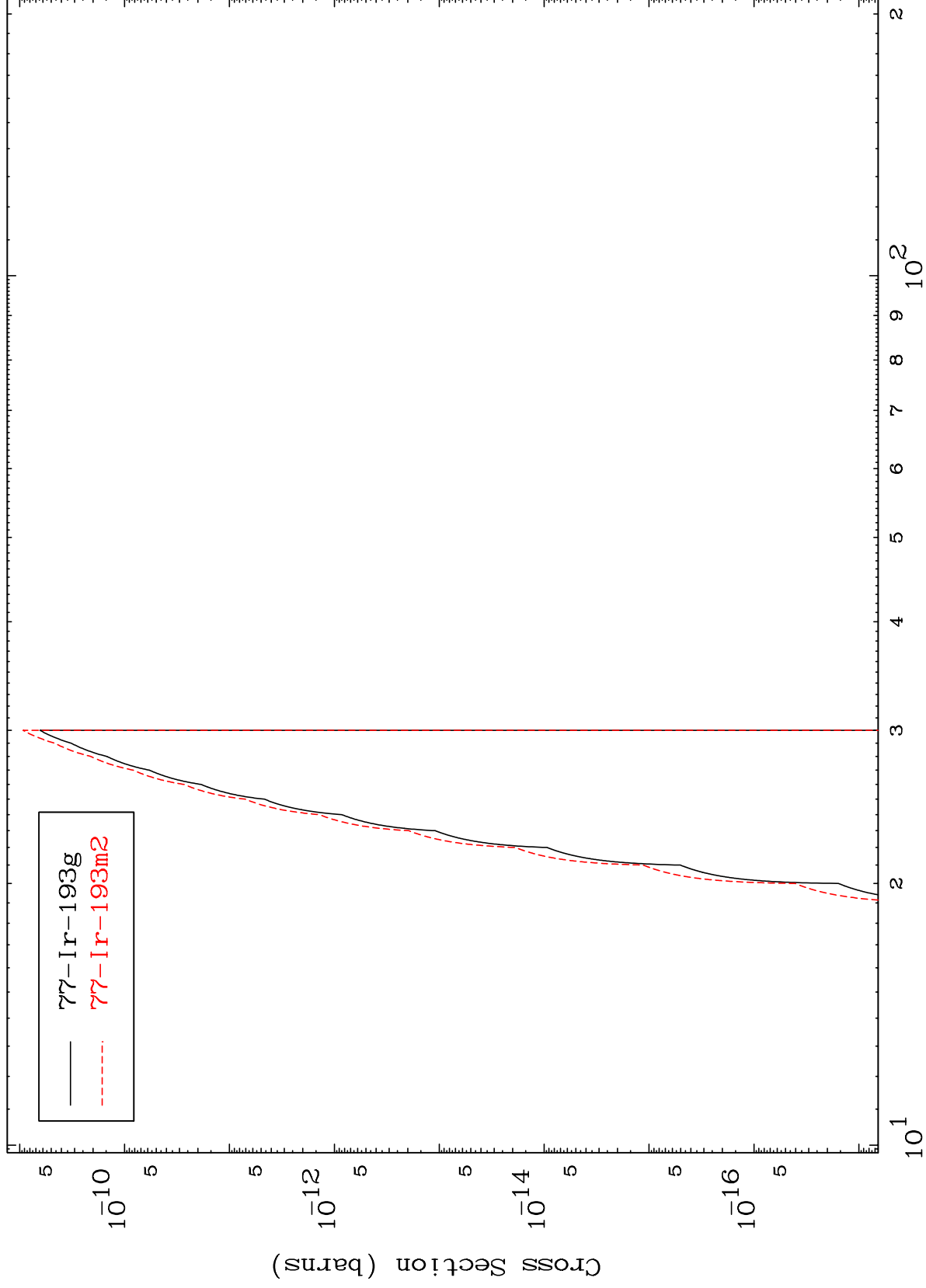
41

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(n,p) t

⁷⁹Au-196n

Radionuclide Production Cross Section



Incident Energy (MeV)

⁷⁹Au-196n