

Program EVALPLOT  
(Version 2021-1)

by

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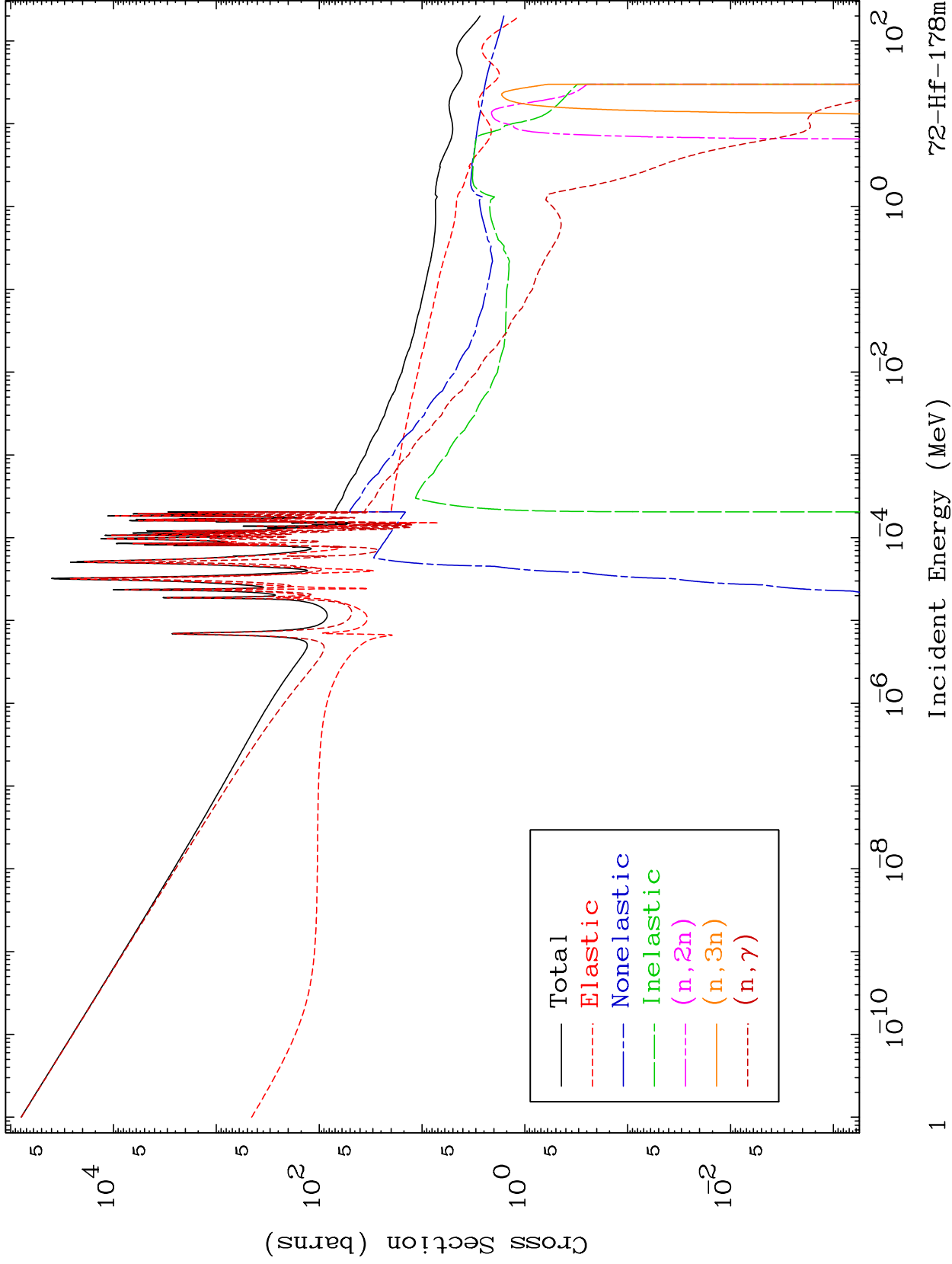
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 7238

Neutron Major  
293 Kelvin Cross Sections

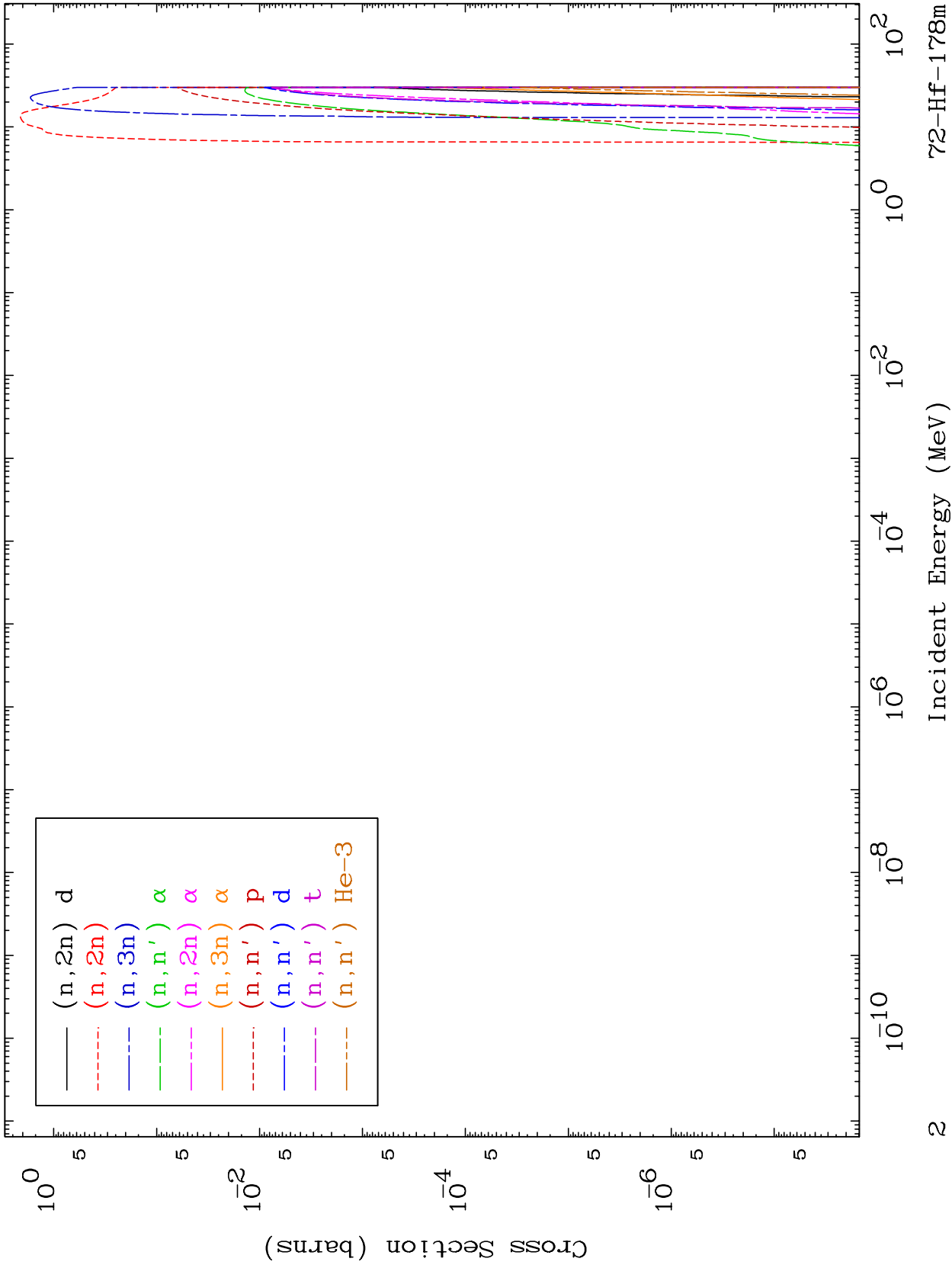
72-Hf-178m



MAT 7238

Neutron Absorption  
293 Kelvin Cross Sections

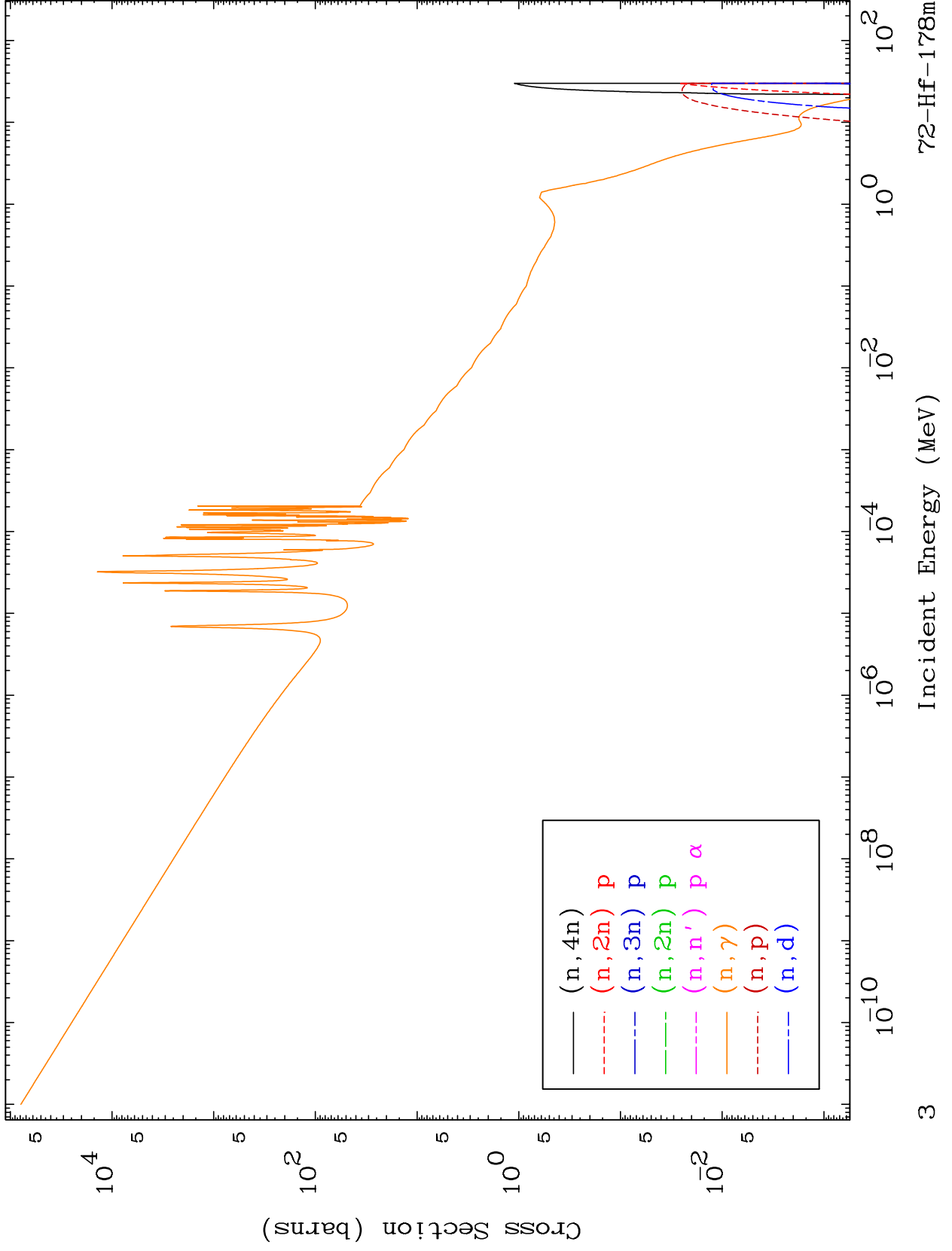
72-Hf-178m



MAT 7238

Neutron Absorption  
293 Kelvin Cross Sections

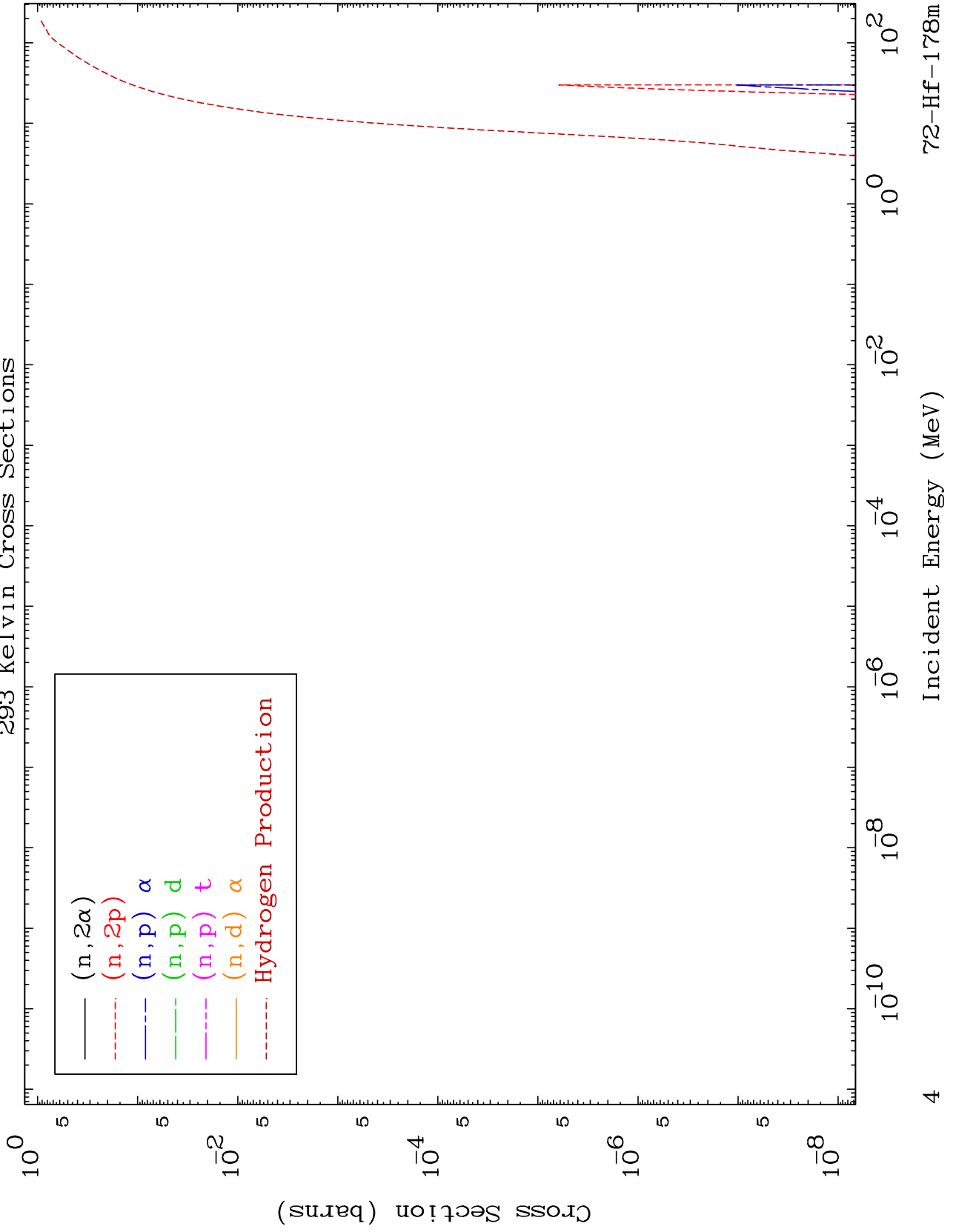
72-Hf-178m



MAT 7238

Neutron Absorption  
293 Kelvin Cross Sections

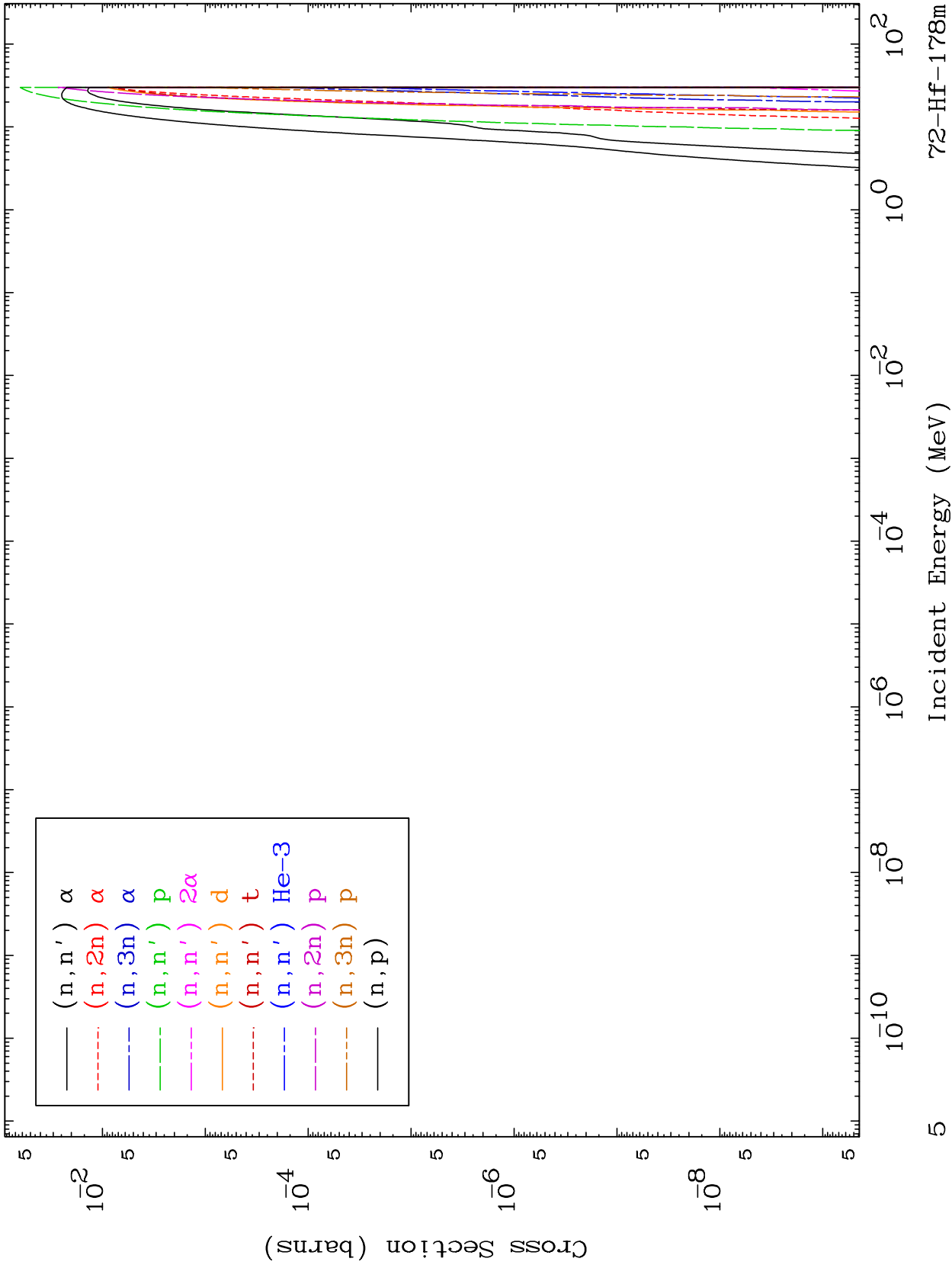
72-Hf-178m



MAT 7238

Charged Particle  
293 Kelvin Cross Sections

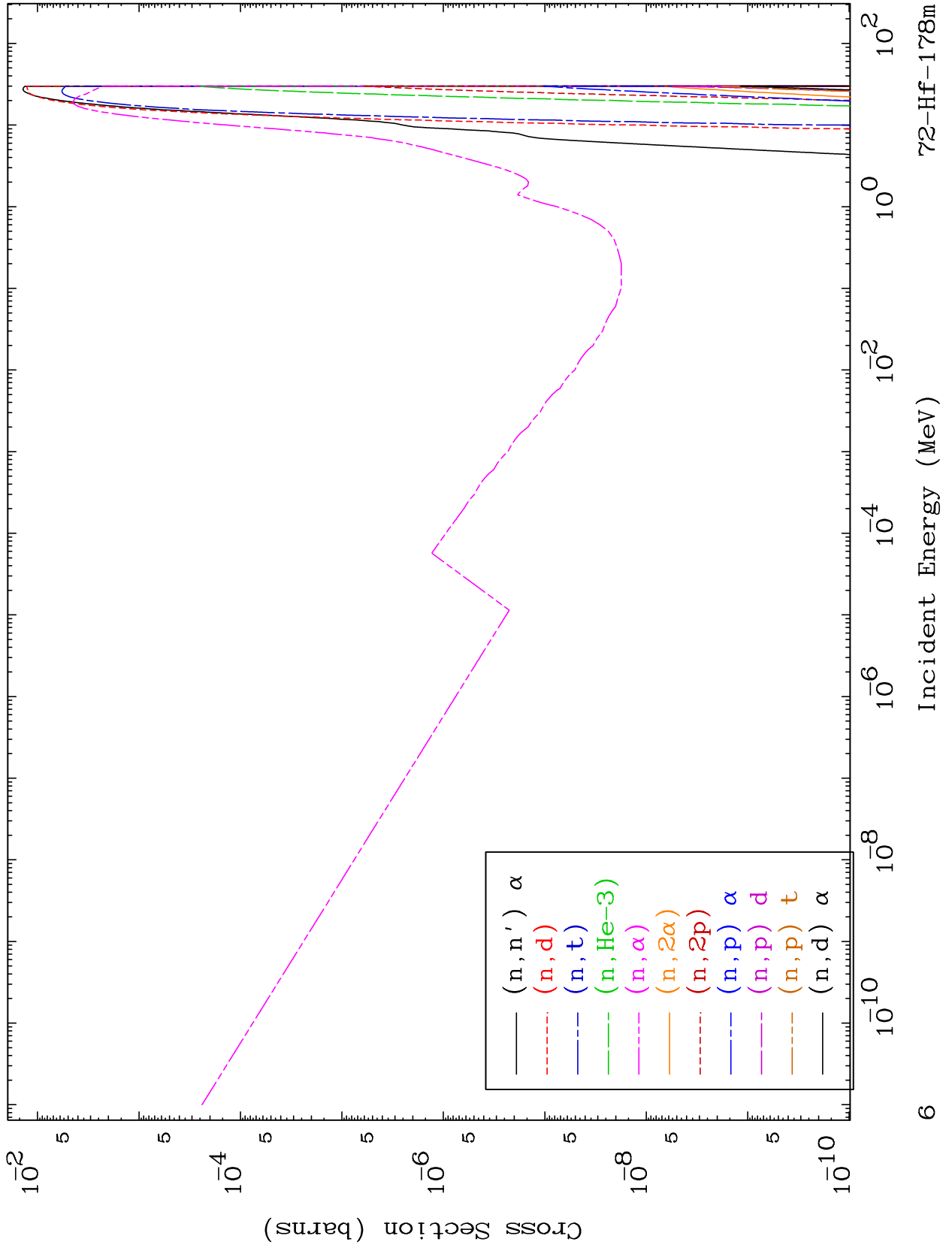
72-Hf-178m



MAT 7238

Charged Particle  
293 Kelvin Cross Sections

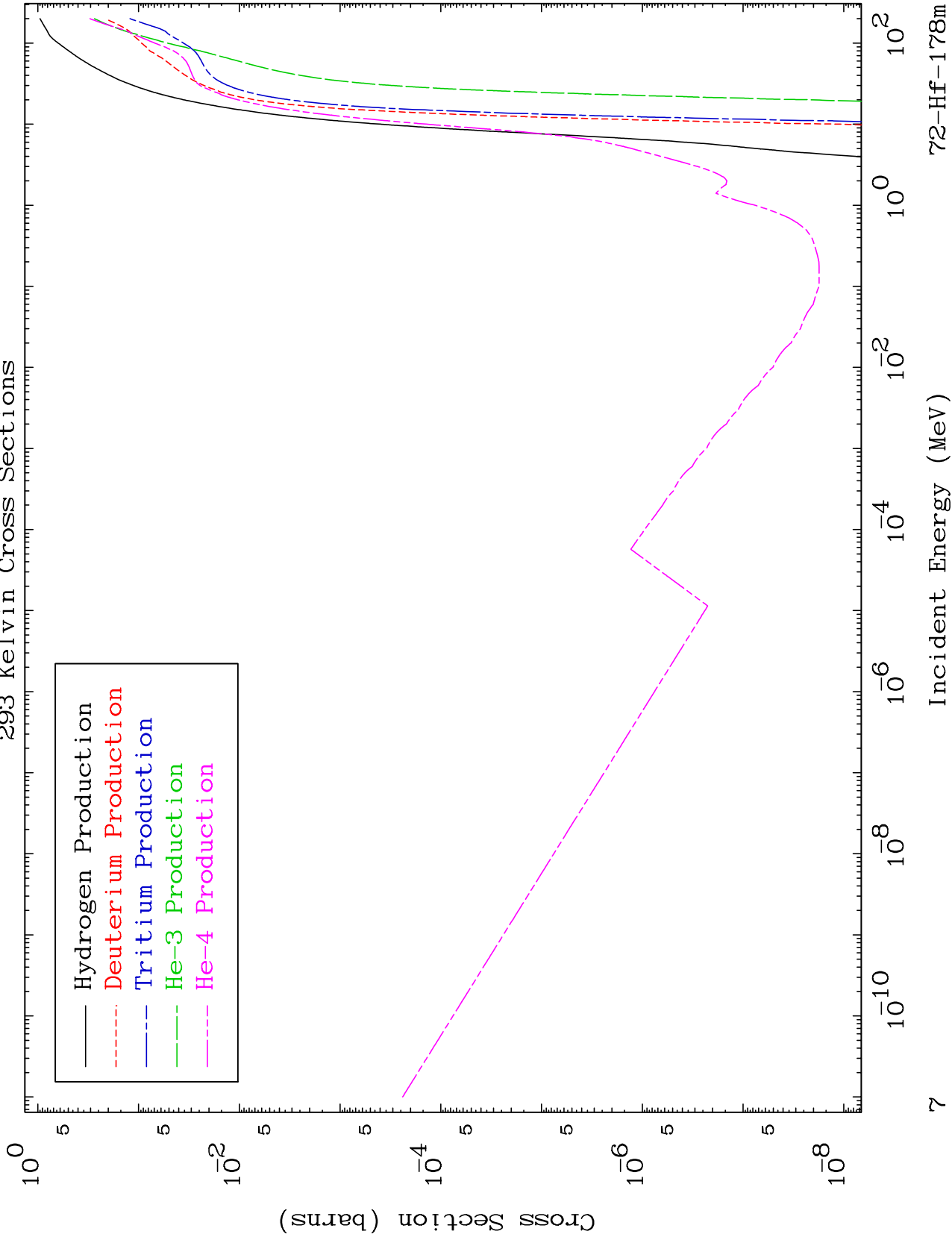
72-Hf-178m



MAT 7238

Particle Production  
293 Kelvin Cross Sections

72-Hf-178m

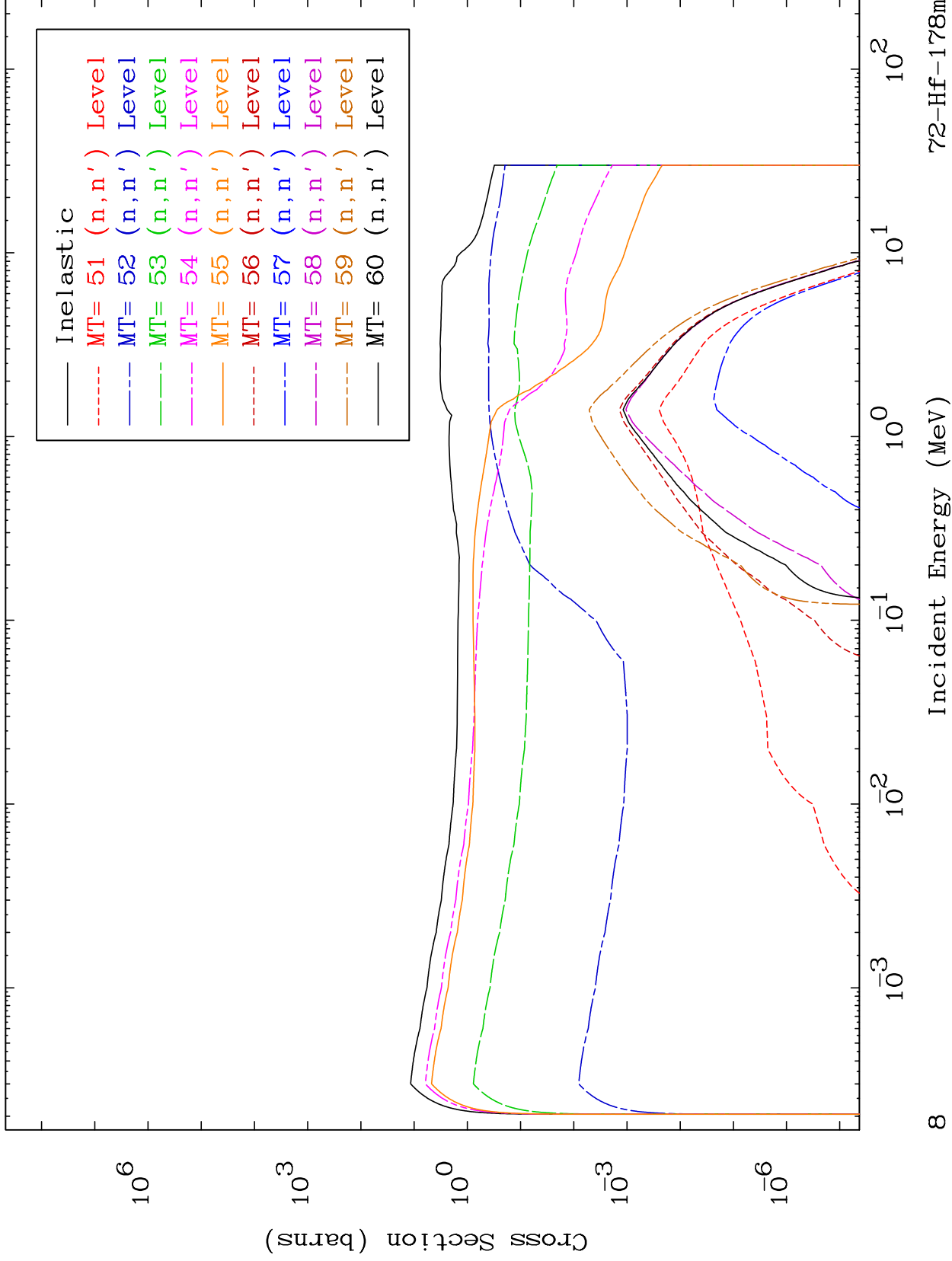


MAT 7238

(n,n') Levels

72-Hf-178m

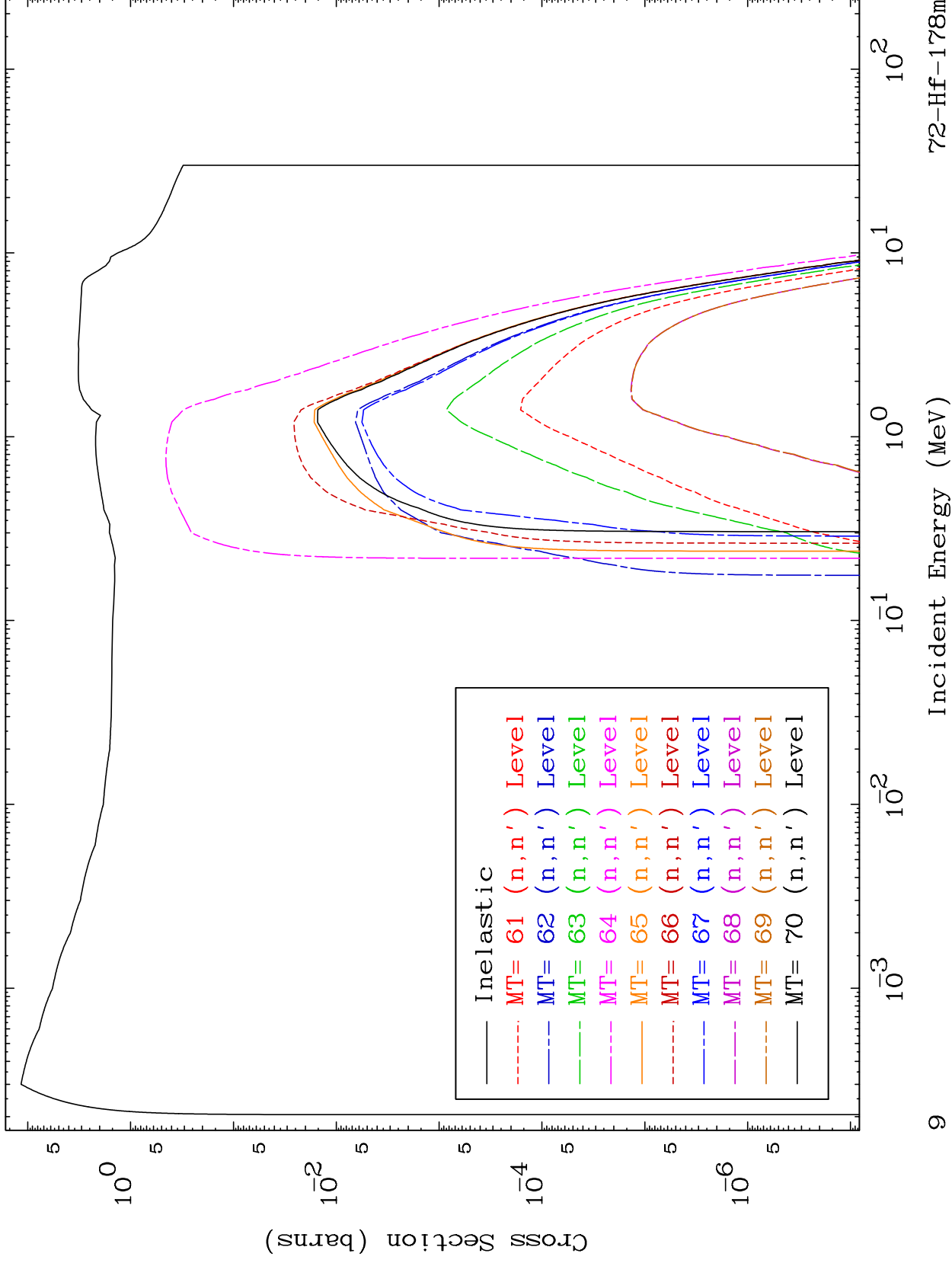
293 Kelvin Cross Sections



MAT 7238

(n,n') Levels  
293 Kelvin Cross Sections

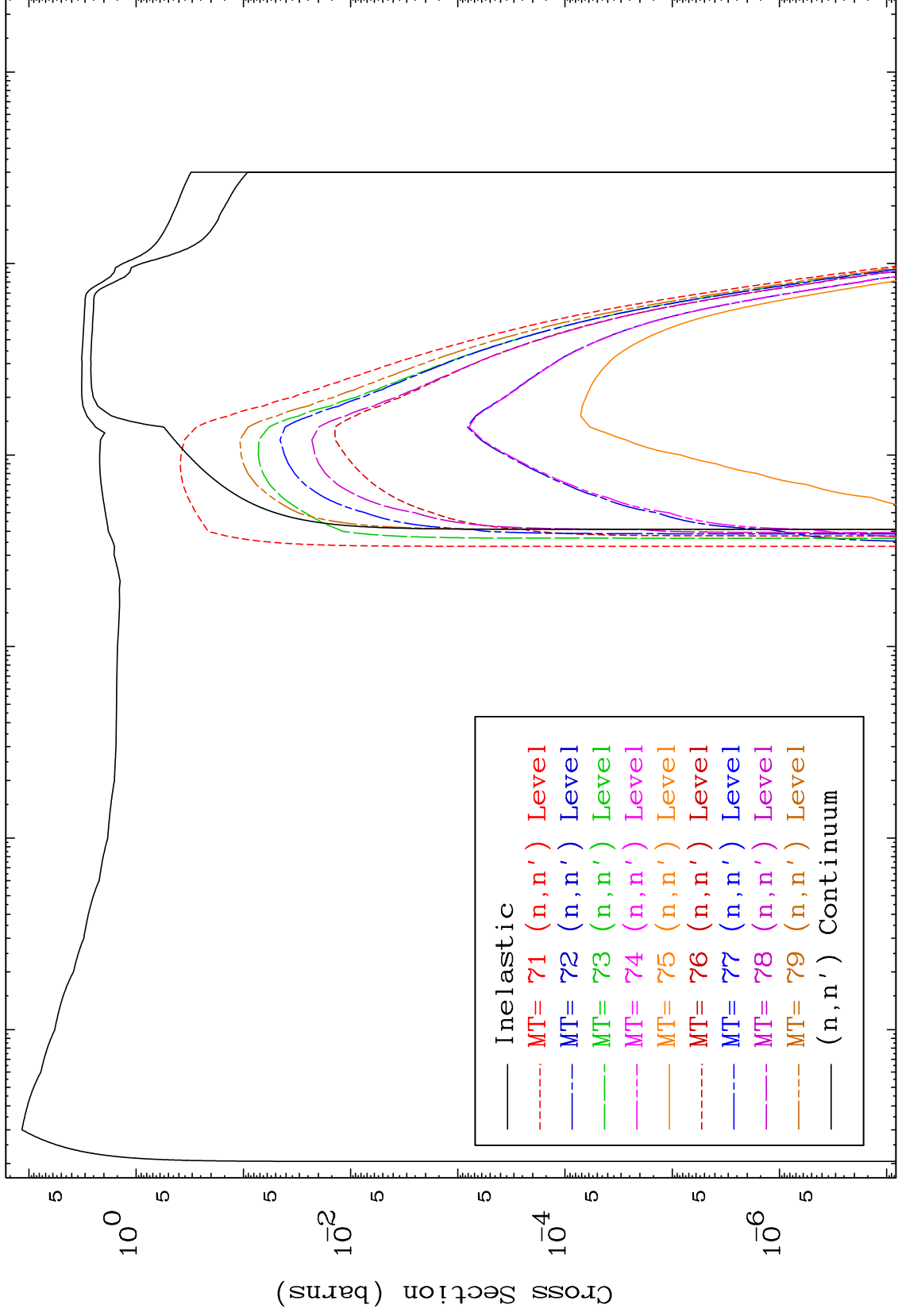
72-Hf-178m



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(n,n') Levels  
293 Kelvin Cross Sections

72-Hf-178m



10

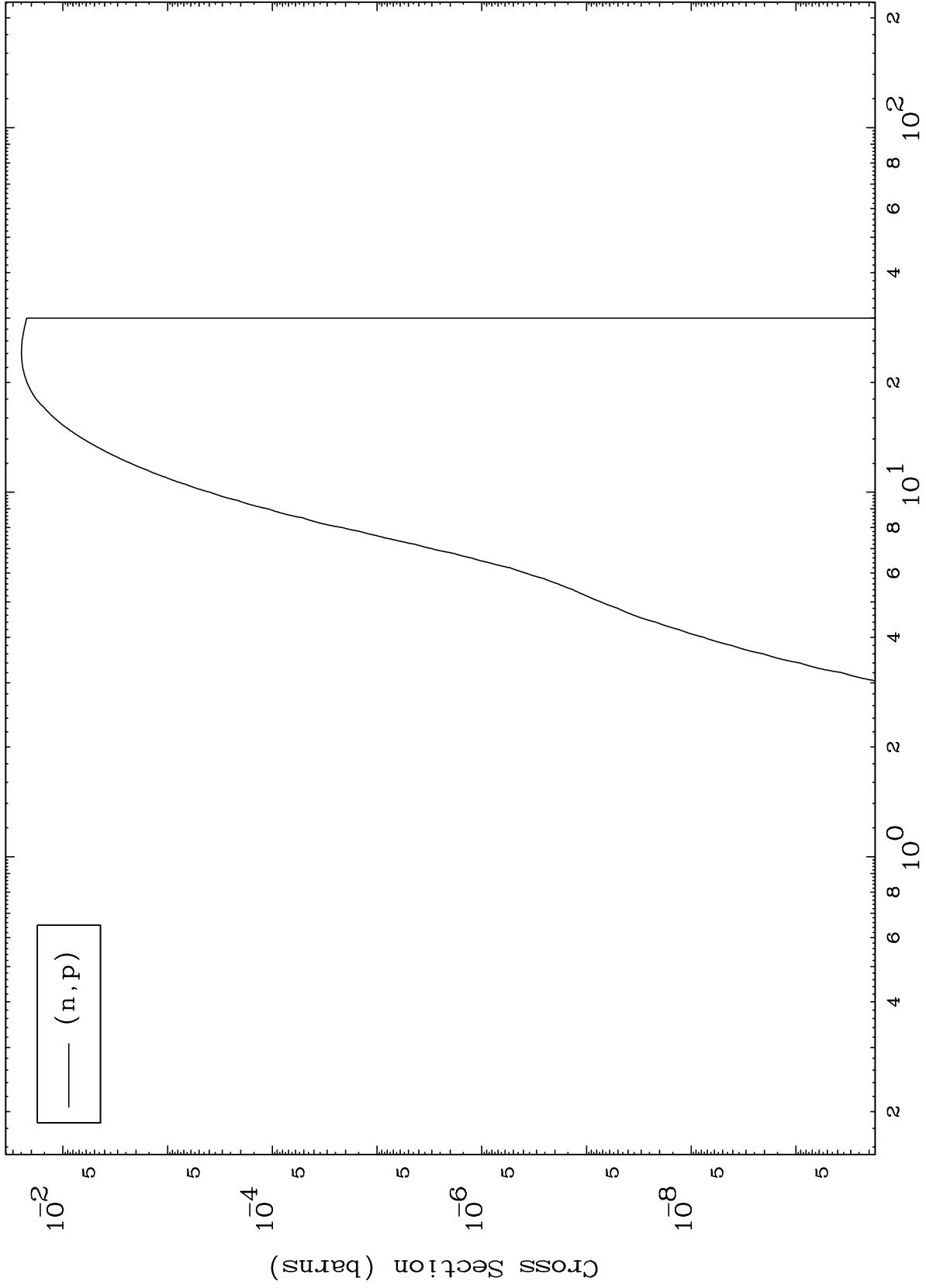
Incident Energy (MeV)

72-Hf-178m

MAT 7238

(n,p) Levels  
293 Kelvin Cross Sections

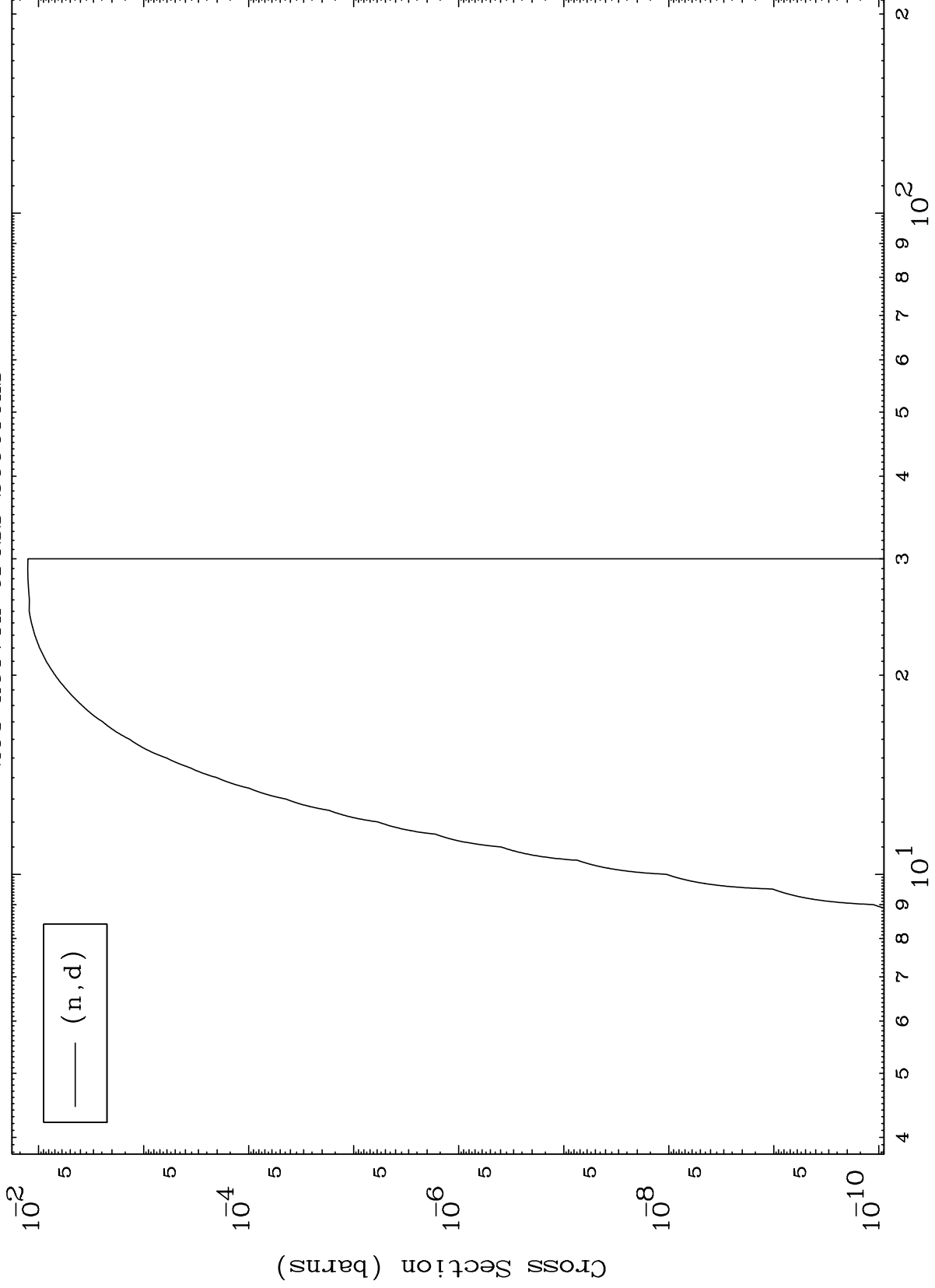
72-Hf-178m



MAT 7238

(n,d) Levels  
293 Kelvin Cross Sections

<sup>72</sup>Hf-178m



12

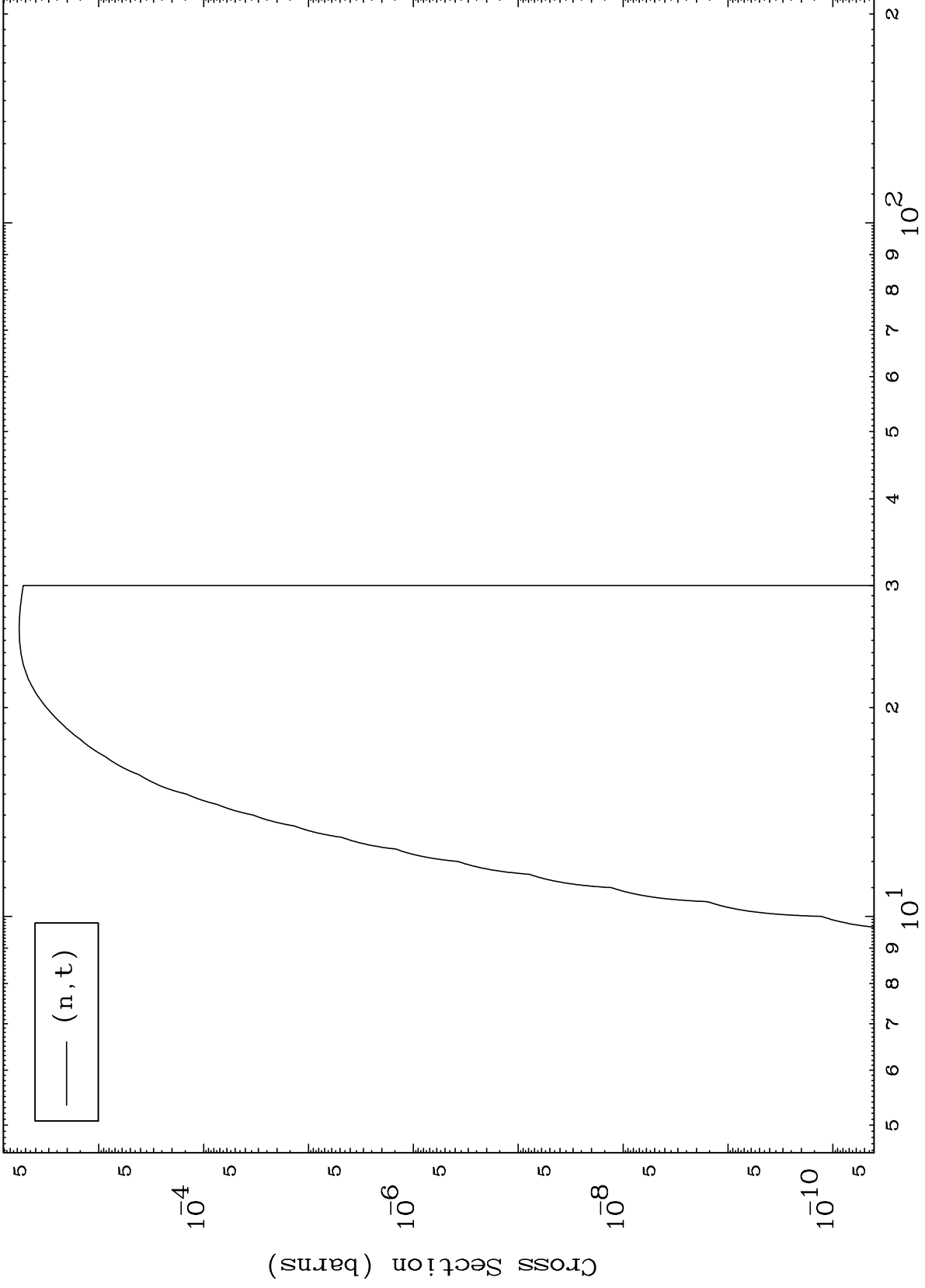
Incident Energy (MeV)

<sup>72</sup>Hf-178m

MAT 7238

(n,t) Levels  
293 Kelvin Cross Sections

72-Hf-178m



13

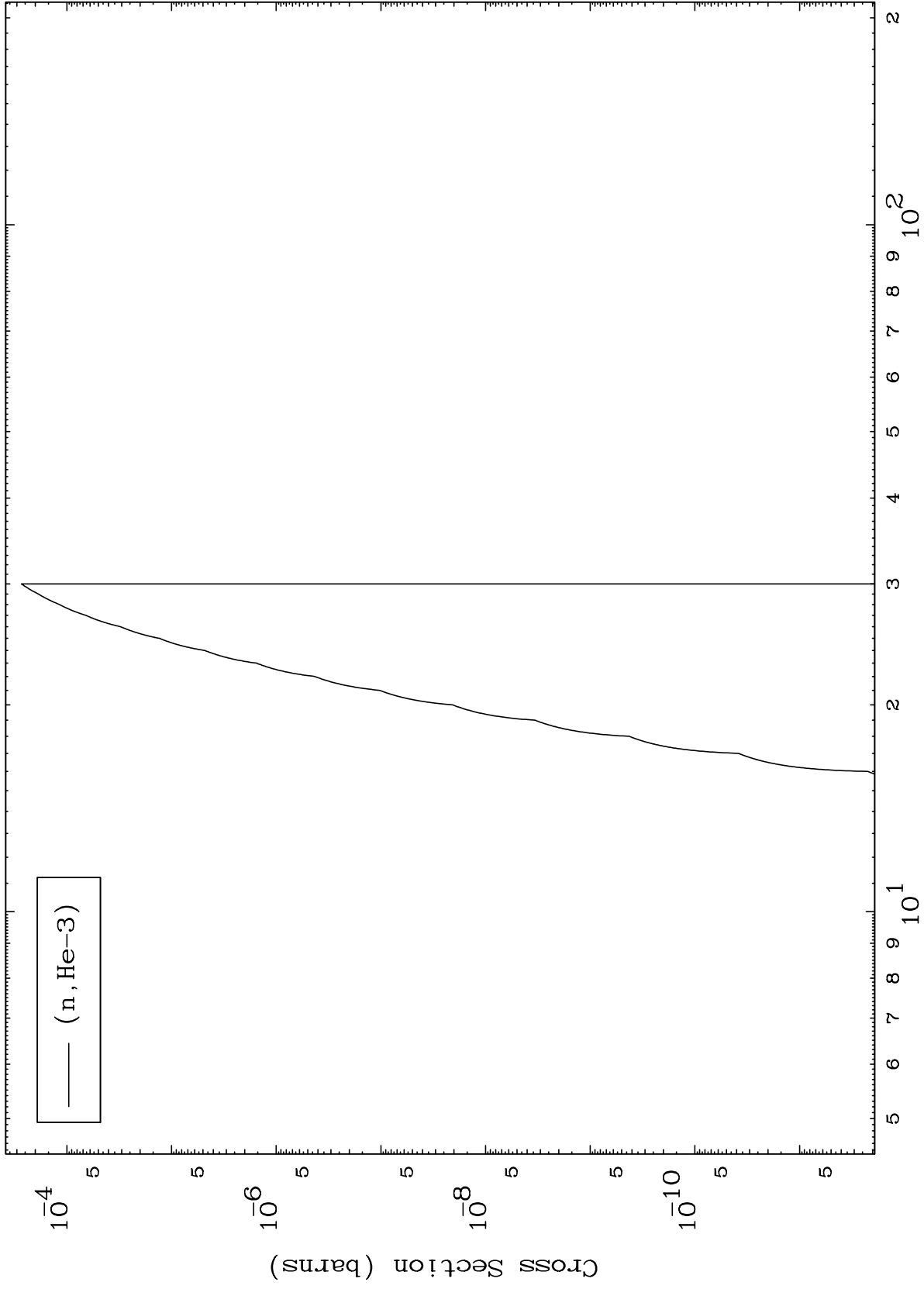
Incident Energy (MeV)

72-Hf-178m

MAT 7238

(n,He3) Levels  
293 Kelvin Cross Sections

72-Hf-178m



14

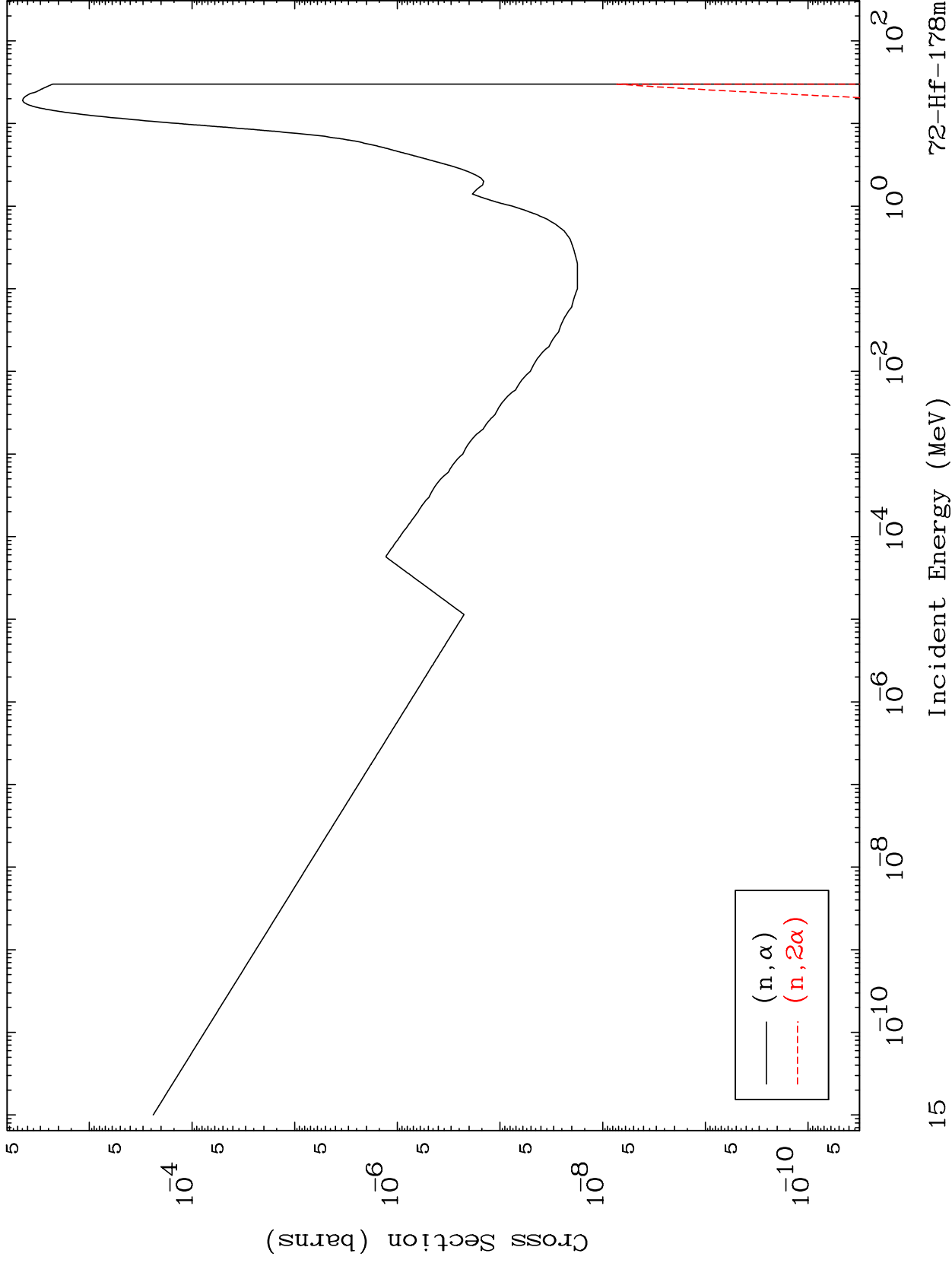
Incident Energy (MeV)

72-Hf-178m

MAT 7238

(n,  $\alpha$ ) Levels  
293 Kelvin Cross Sections

<sup>72</sup>Hf-178m

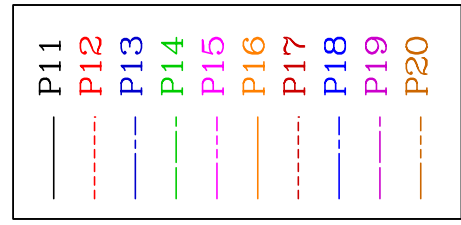




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Elastic  
Legendre Coefficients

72-Hf-178m



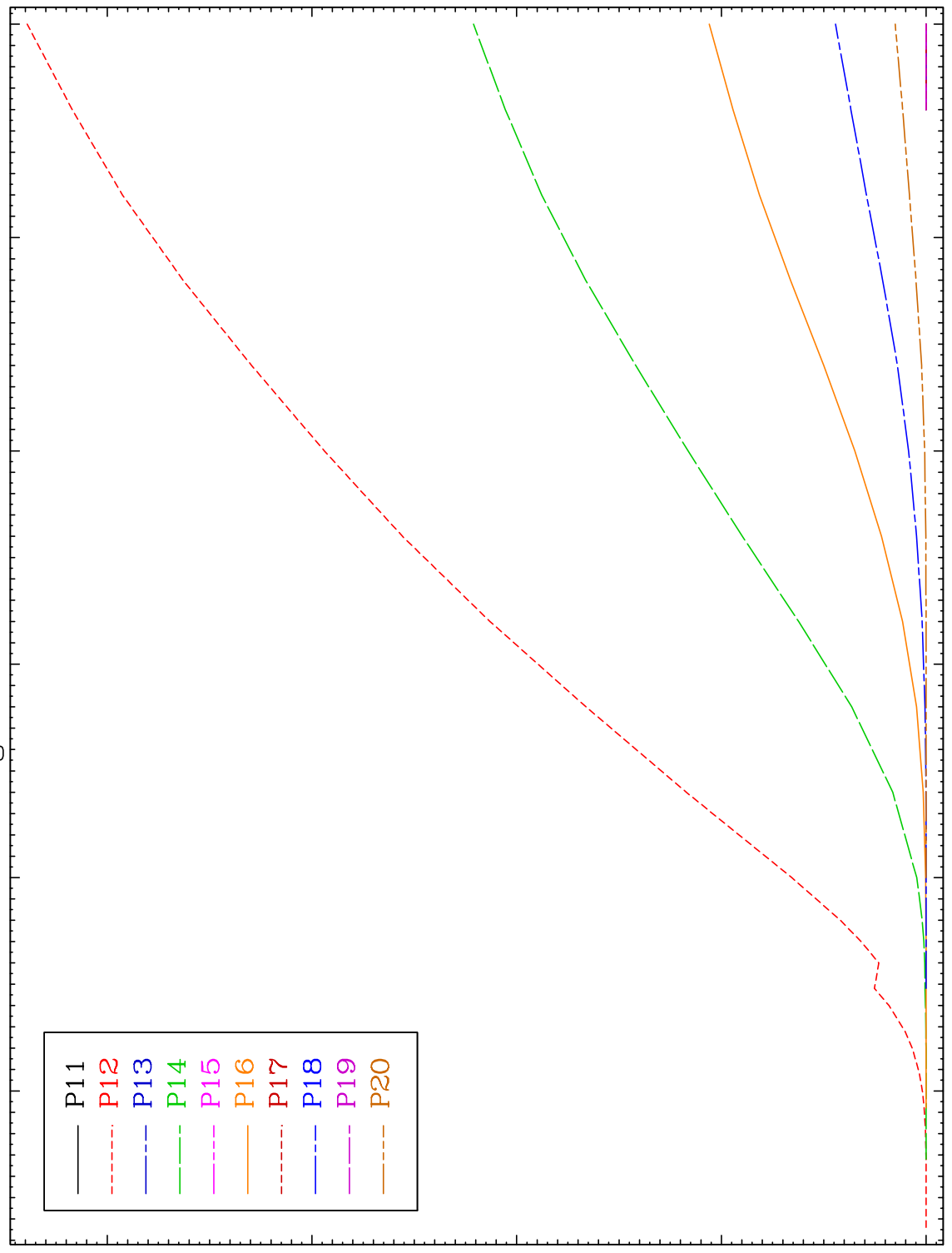
$\times 10^{-4}$   
2.0  
1.5  
1.0  
0.5  
0.0

Legendre (CM)

17

Incident Energy (MeV)

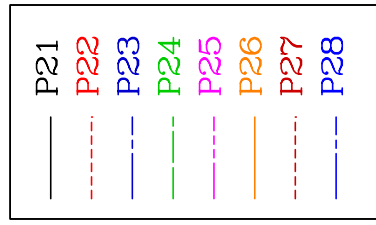
72-Hf-178m



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Elastic  
Legendre Coefficients

72-Hf-178m



Legendre (CM)  
 $\times 10^{-6}$



18

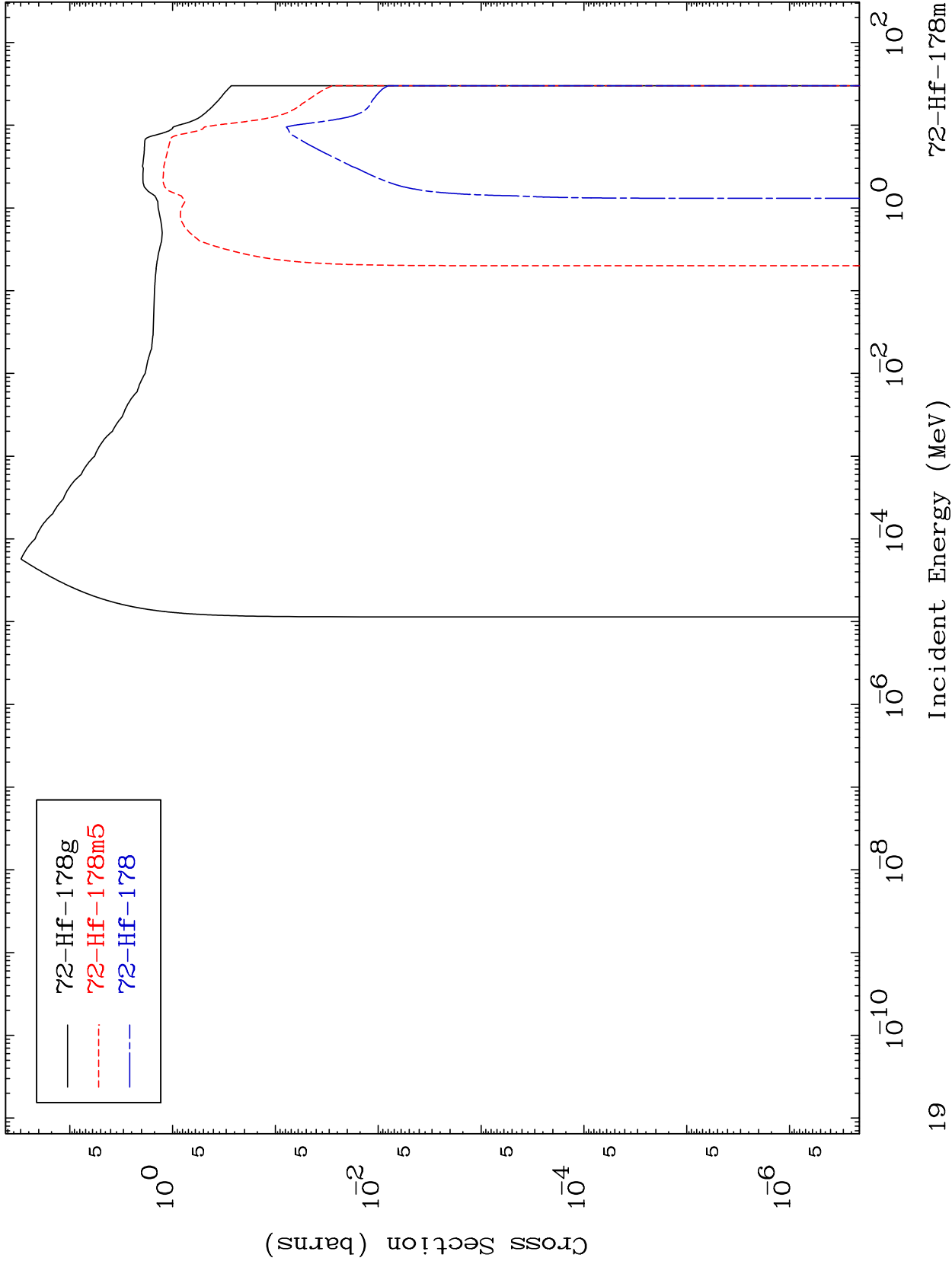
Incident Energy (MeV)

72-Hf-178m

MAT 7238

Radionuclide Production Cross Section

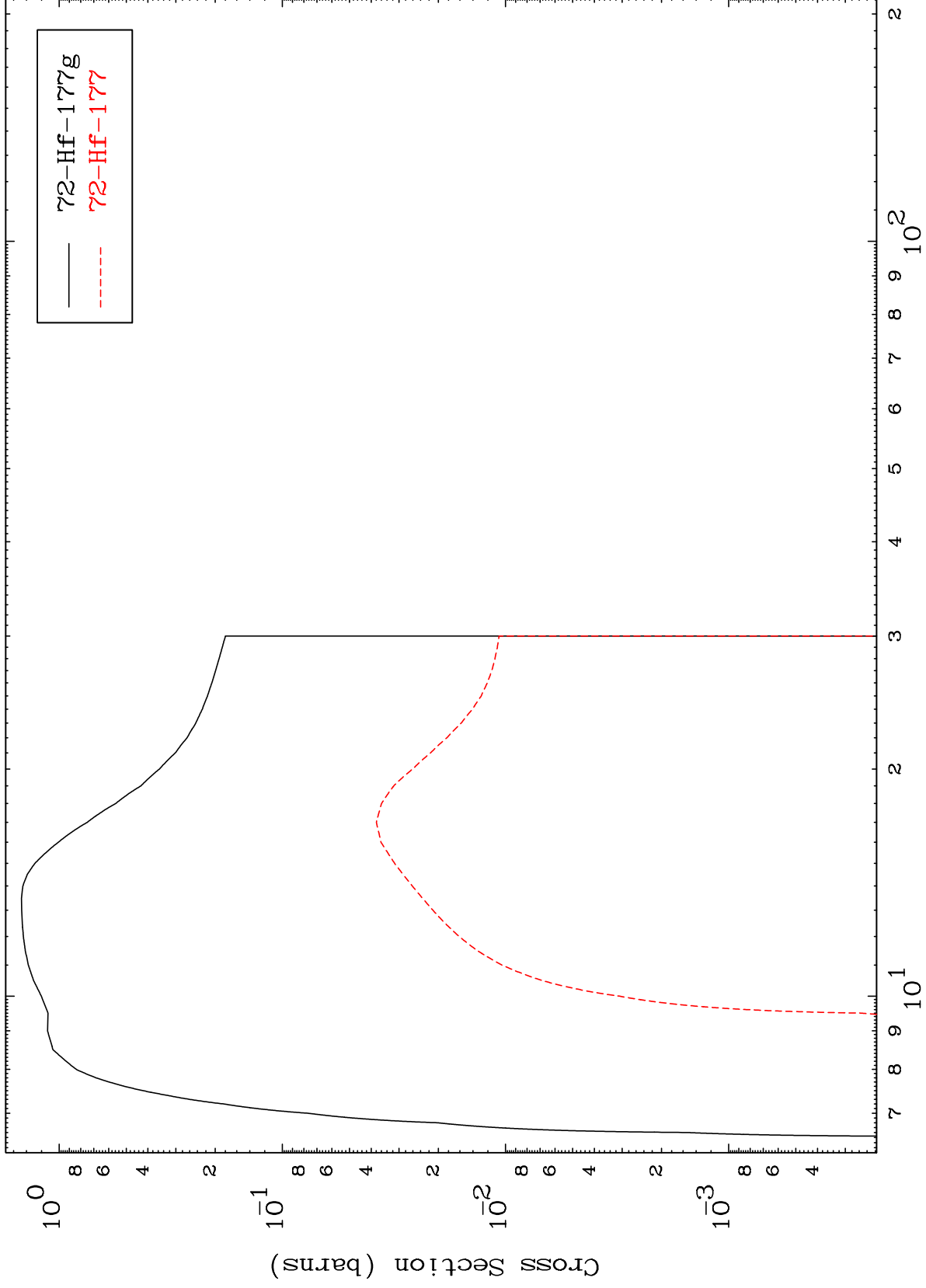
<sup>72</sup>Hf-178m



MAT 7238

72-Hf-178m

Radionuclide Production Cross Section



72-Hf-178m

Incident Energy (MeV)

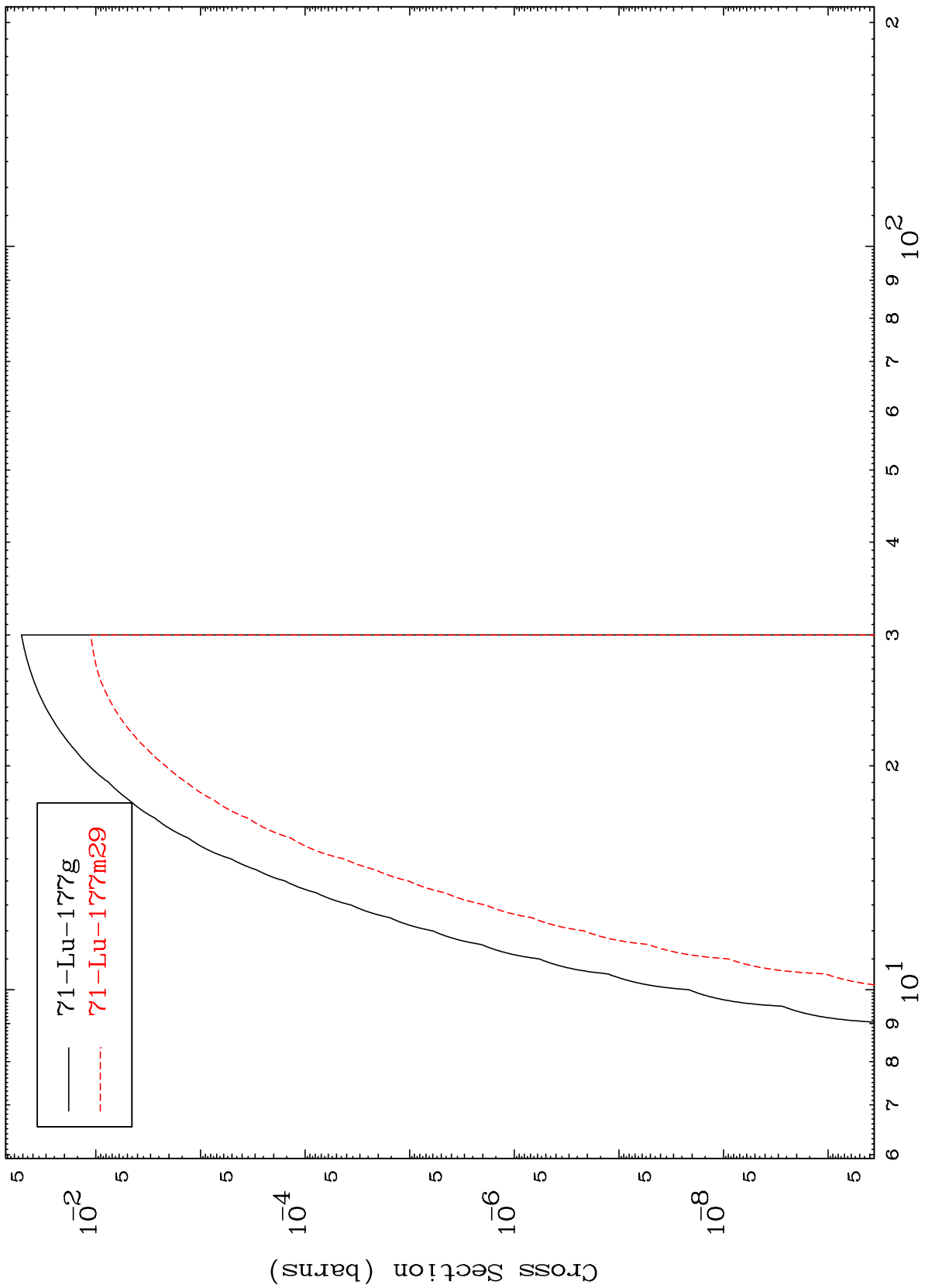
20

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(n,n') p

<sup>72</sup>Hf-178m

Radionuclide Production Cross Section



21

Incident Energy (MeV)

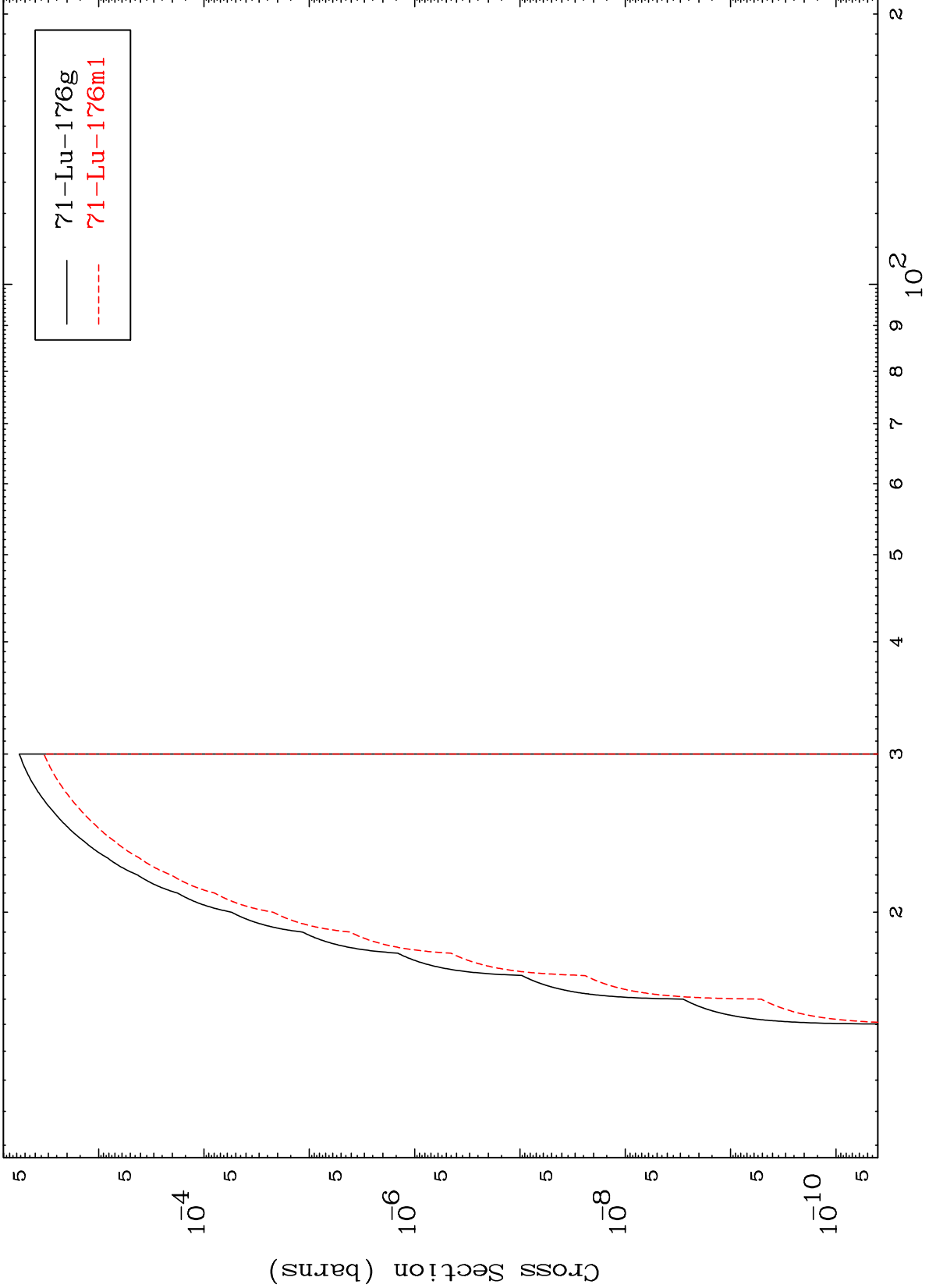
<sup>72</sup>Hf-178m

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(n,n') d

72-Hf-178m

Radionuclide Production Cross Section



22

Incident Energy (MeV)

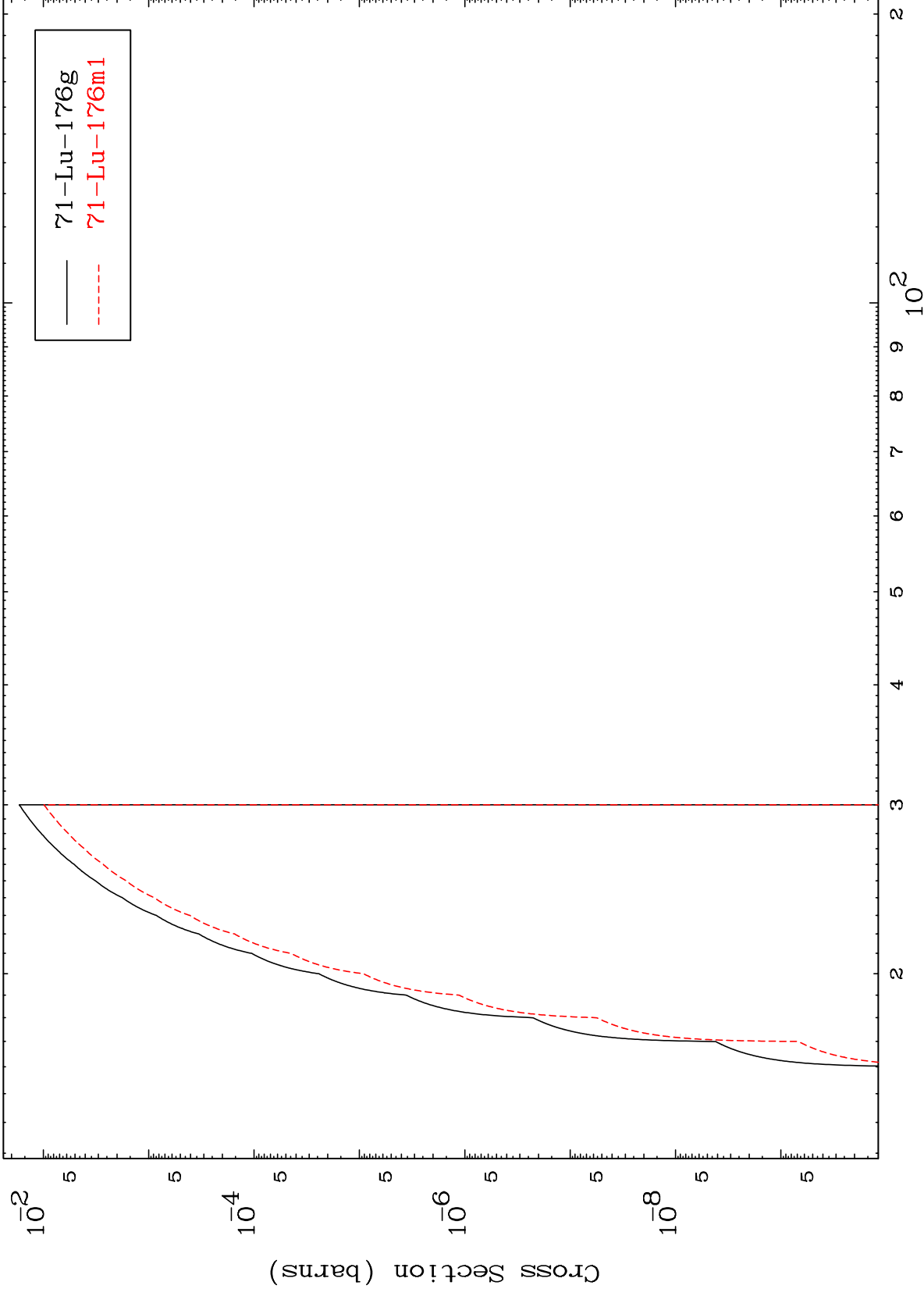
72-Hf-178m

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(n,2n) p

<sup>72</sup>Hf-178m

Radionuclide Production Cross Section



23

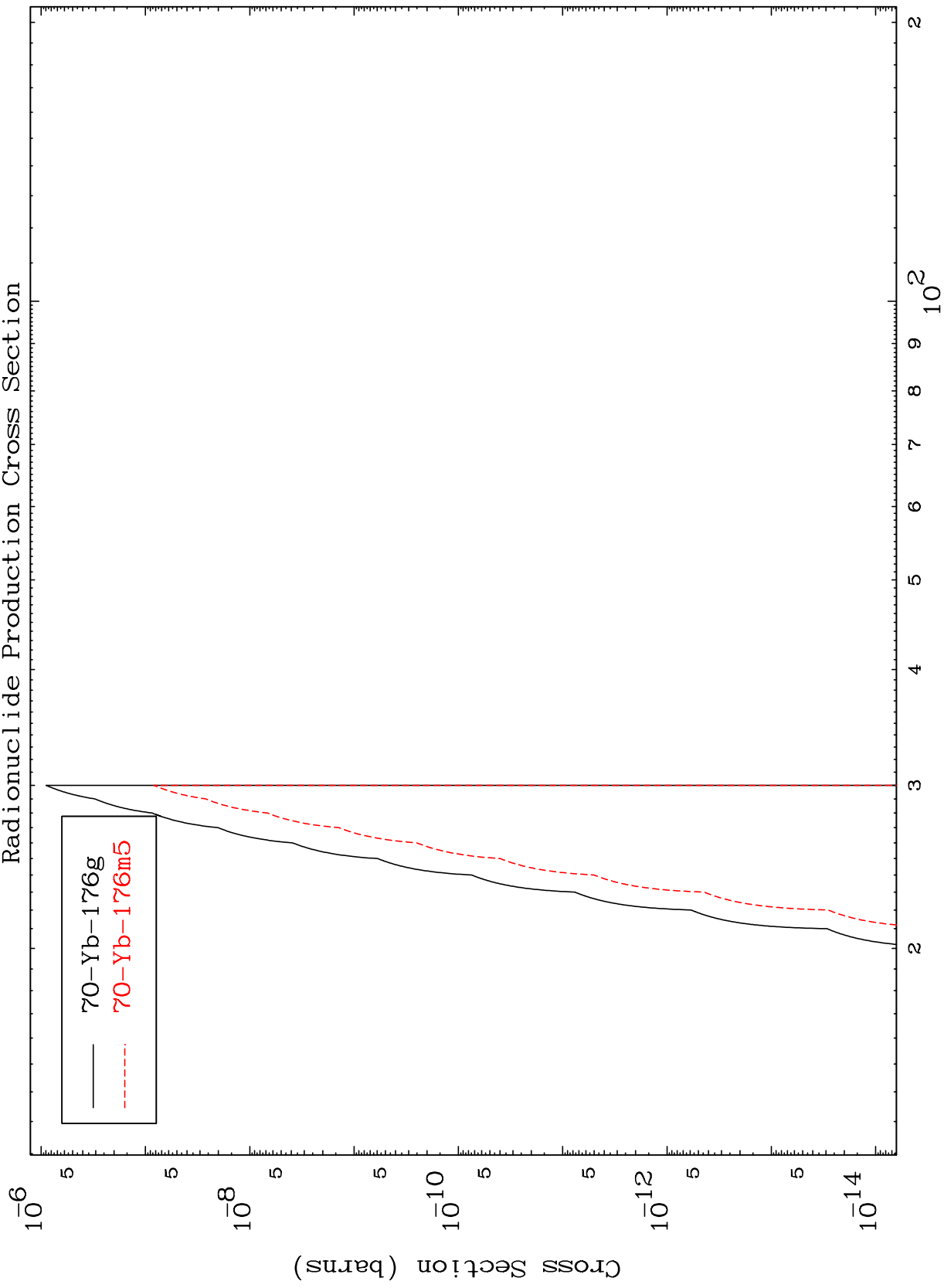
Incident Energy (MeV)

<sup>72</sup>Hf-178m

MAT 7238

72-Hf-178m

(n,2n) p  
Radionuclide Production Cross Section



72-Hf-178m

Incident Energy (MeV)

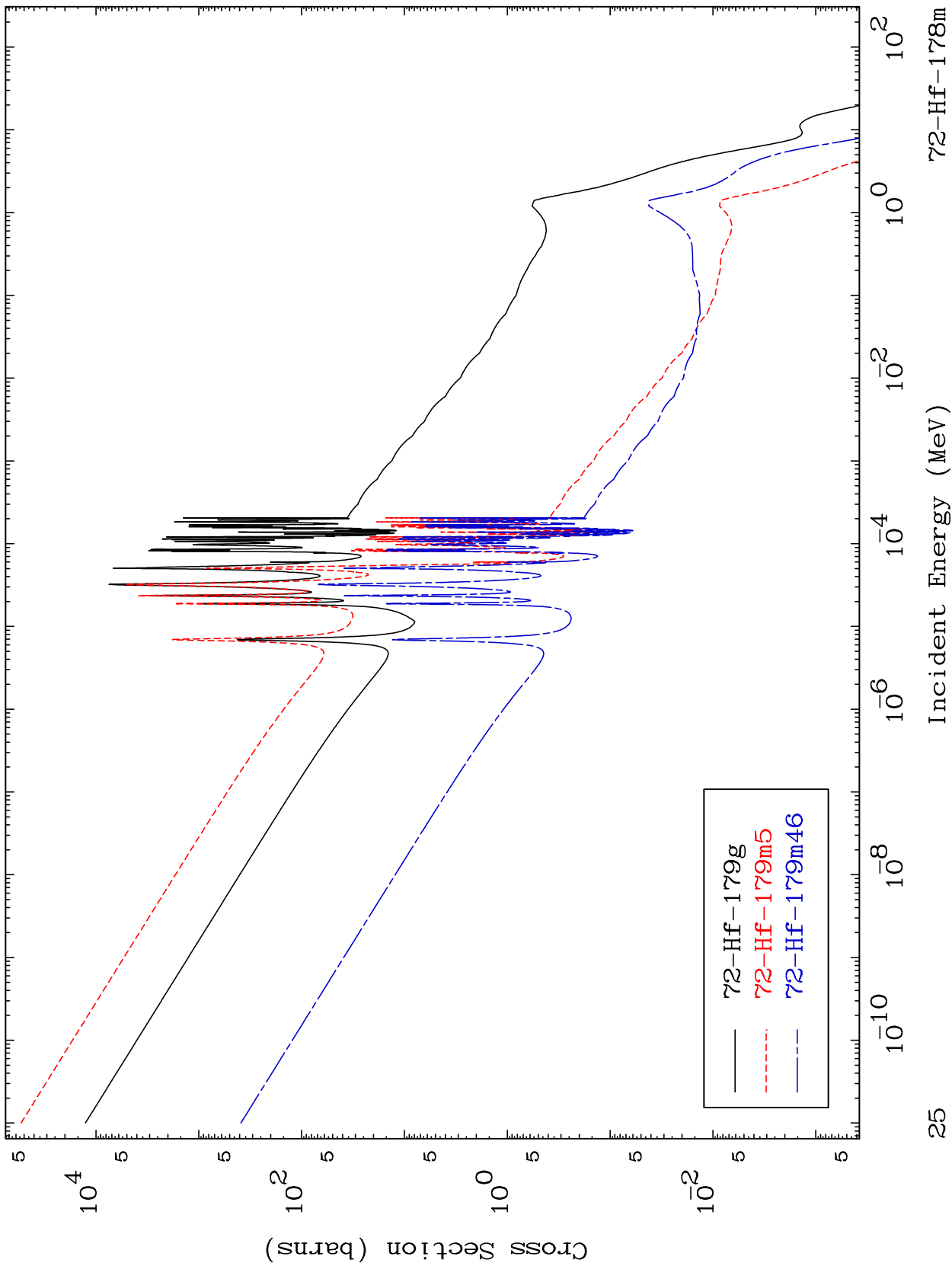
24

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<sup>72</sup>Hf-178m

Radionuclide Production Cross Section

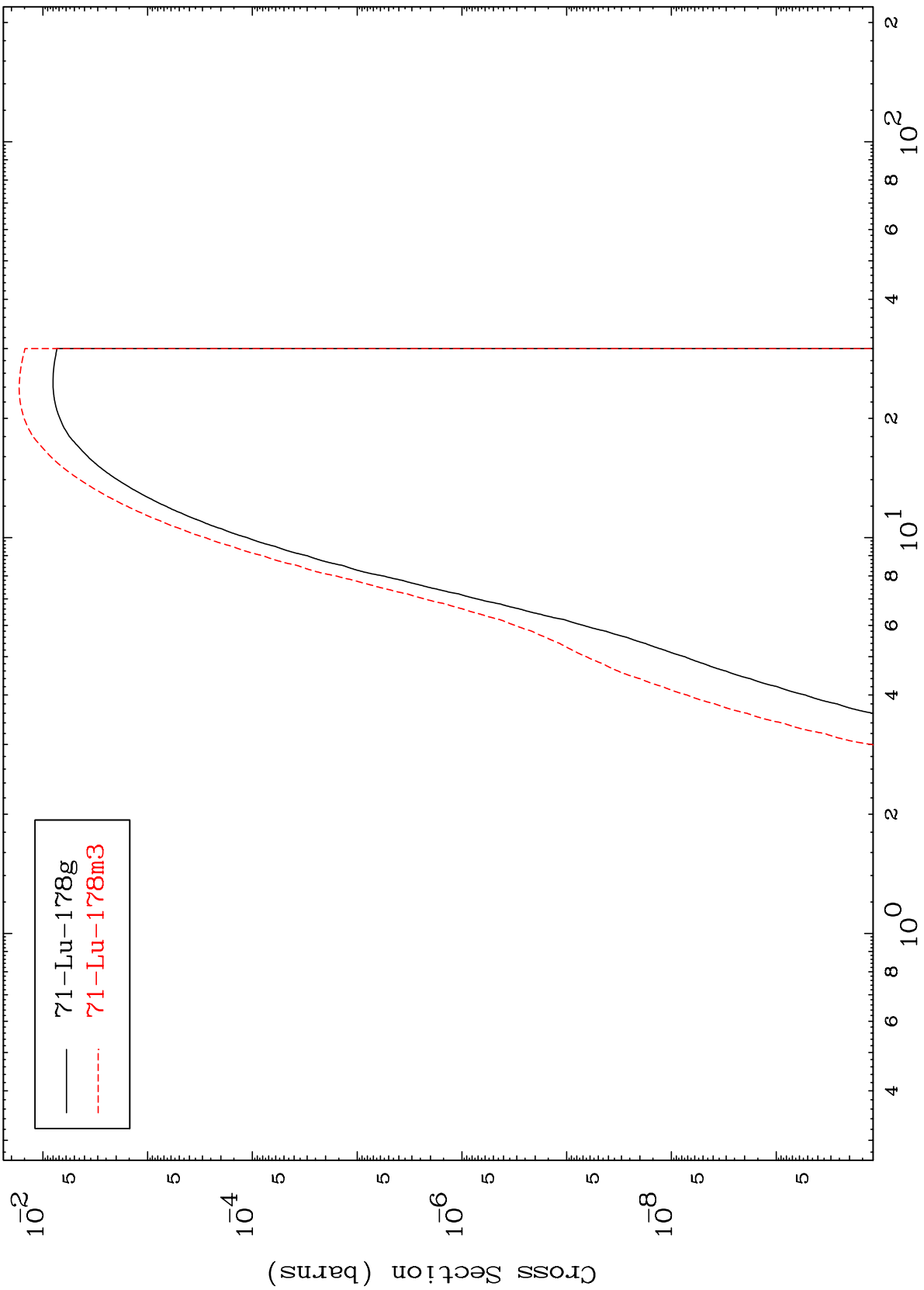
(n,  $\gamma$ )



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72-Hf-178m

(n,p)  
Radionuclide Production Cross Section



26

72-Hf-178m

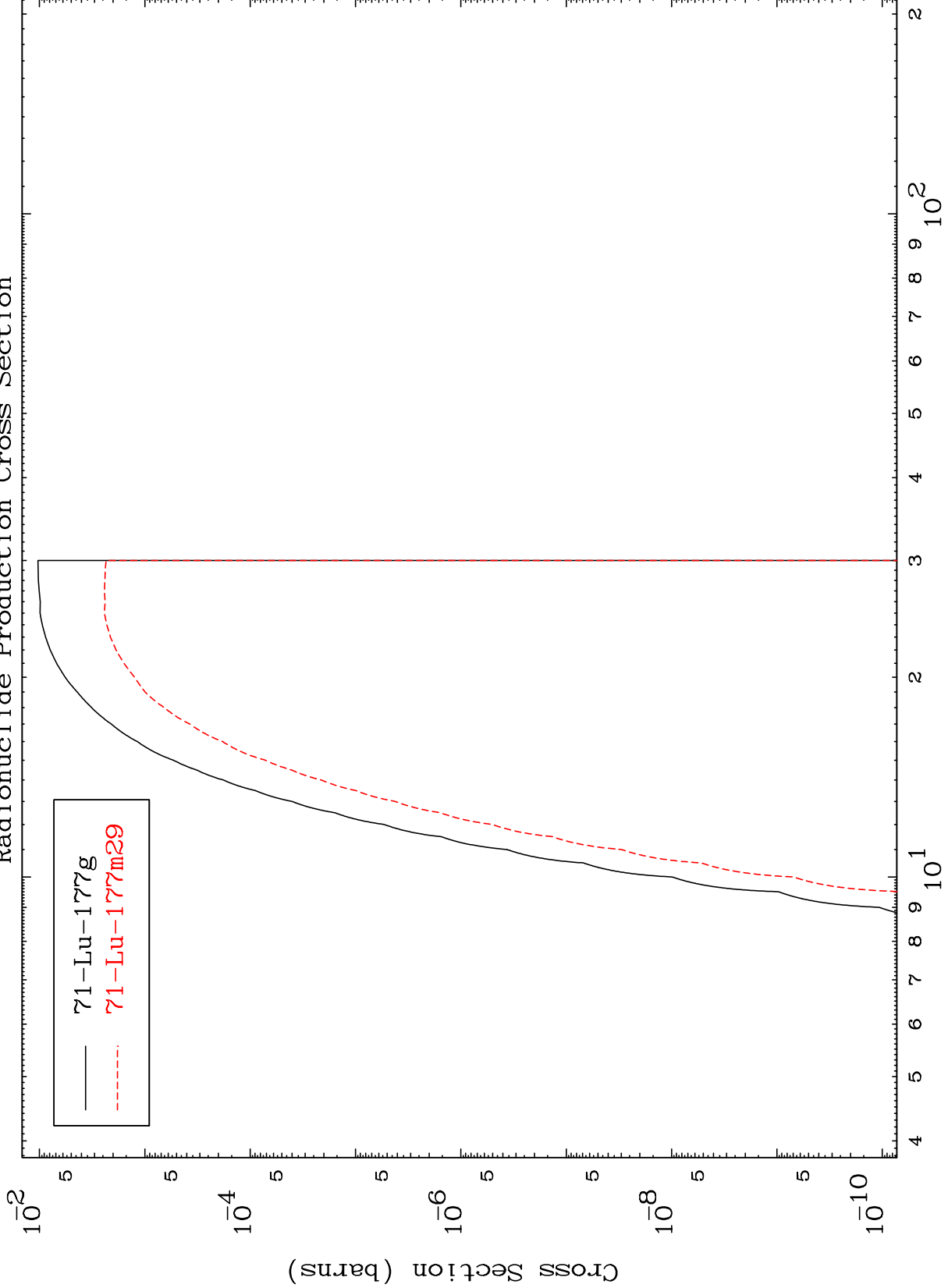
Incident Energy (MeV)

MAT 7238

(n, d)

72-Hf-178m

Radionuclide Production Cross Section



71-Lu-177g  
71-Lu-177m29

Incident Energy (MeV)

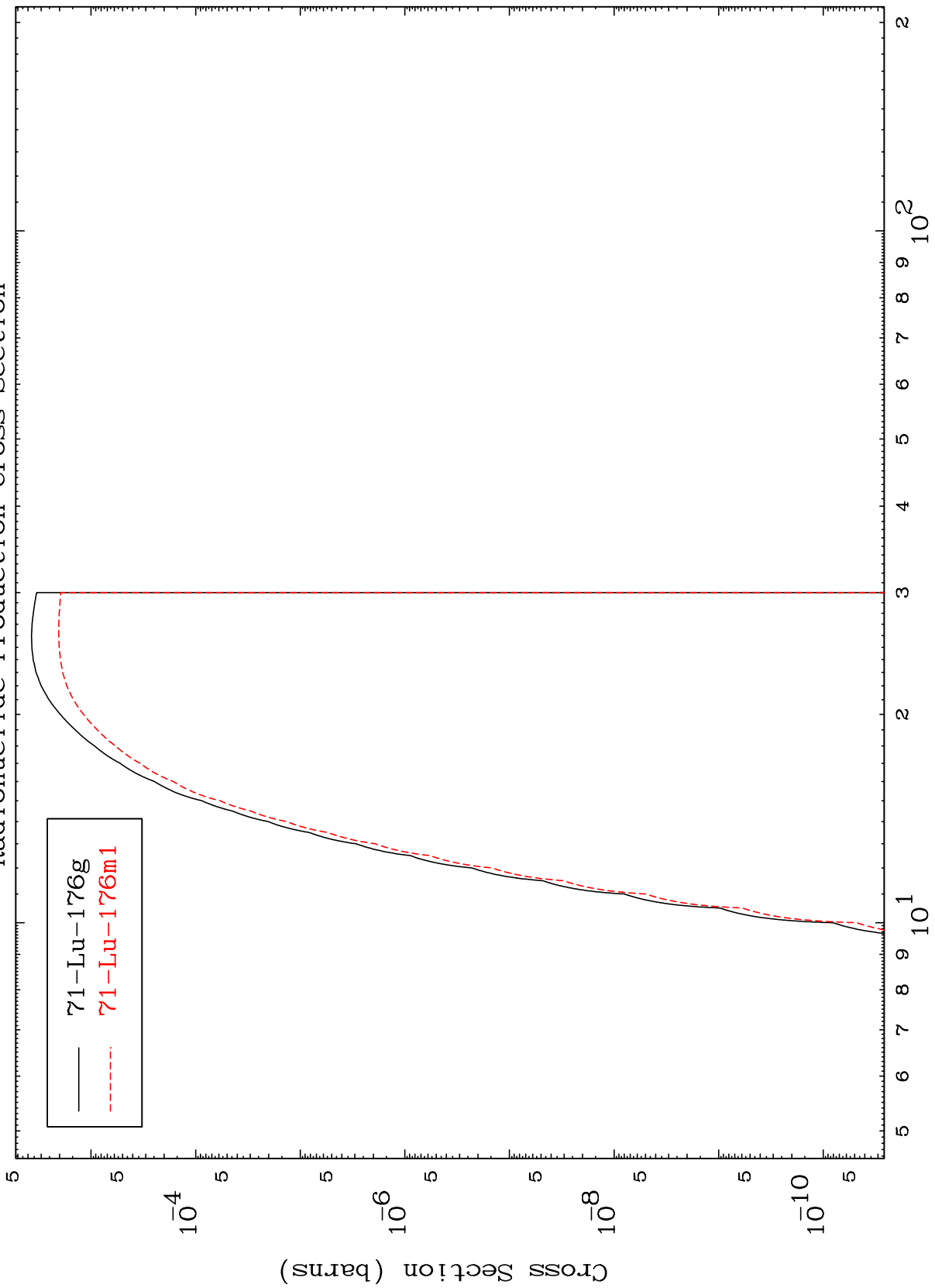
72-Hf-178m

27

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72-Hf-178m

(n, t)  
Radionuclide Production Cross Section



28

Incident Energy (MeV)

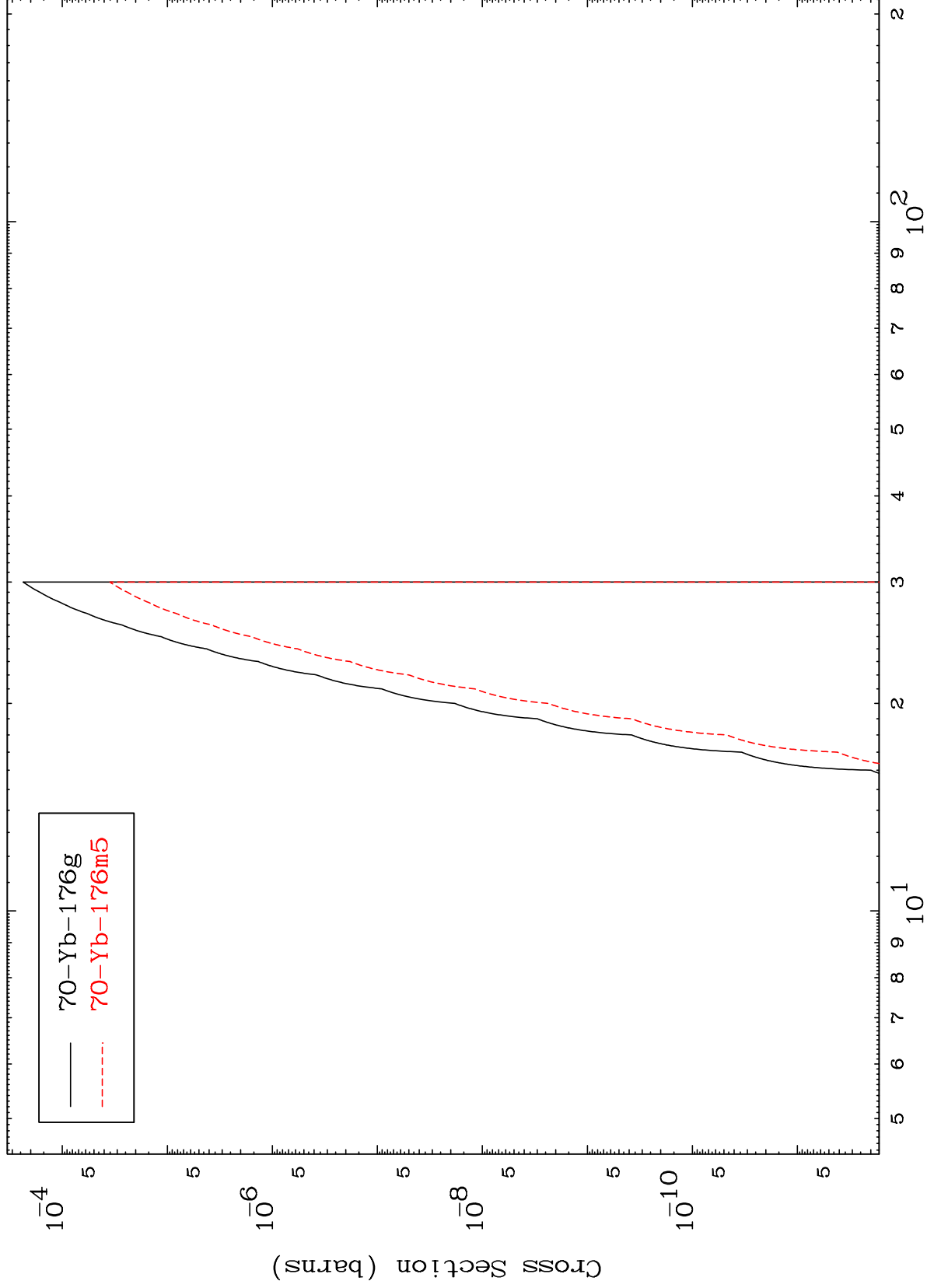
72-Hf-178m

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(n,He-3)

72-Hf-178m

Radionuclide Production Cross Section



29

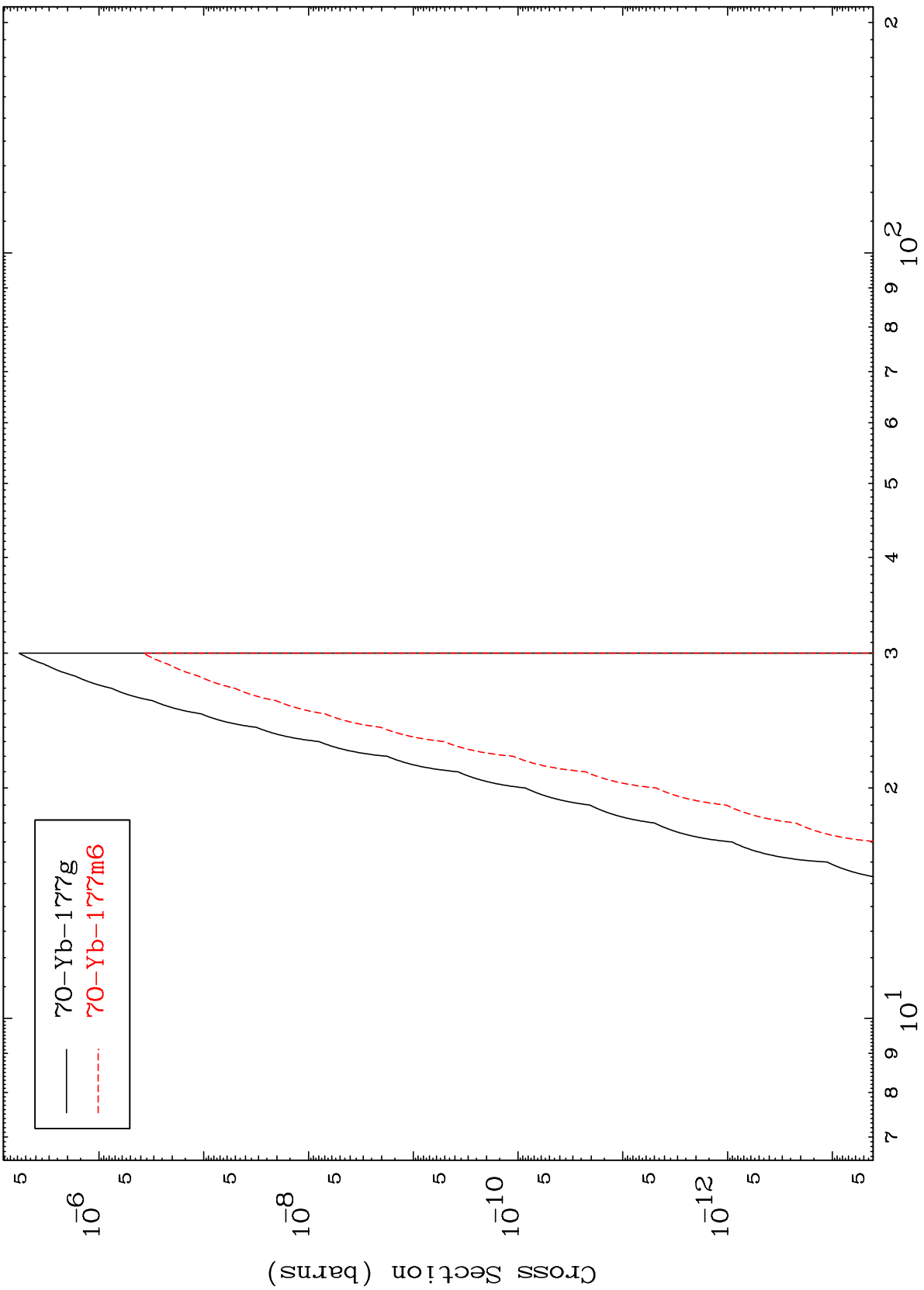
Incident Energy (MeV)

72-Hf-178m

MAT 7238

<sup>72</sup>Hf-178m

Radionuclide Production Cross Section (n,2p)



— 70-Yb-177g  
- - - 70-Yb-177m6

30

Incident Energy (MeV)

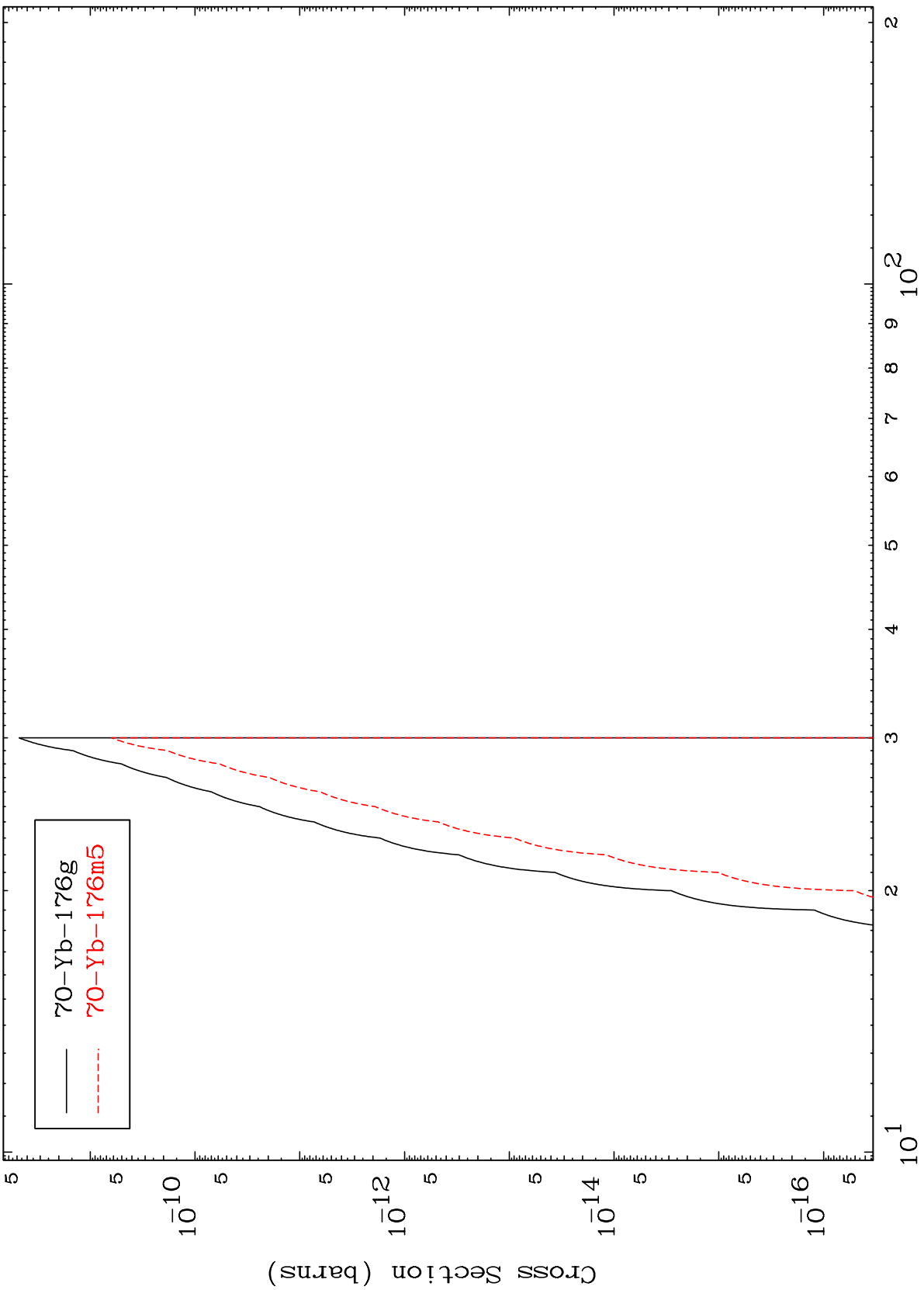
<sup>72</sup>Hf-178m

MAT 7238

(n,p) d

<sup>72</sup>Hf-178m

Radionuclide Production Cross Section



— <sup>70</sup>Yb-176g  
- - - <sup>70</sup>Yb-176m5

Incident Energy (MeV)

<sup>72</sup>Hf-178m

31