

Program EVALPLOT  
(Version 2018-1)

by

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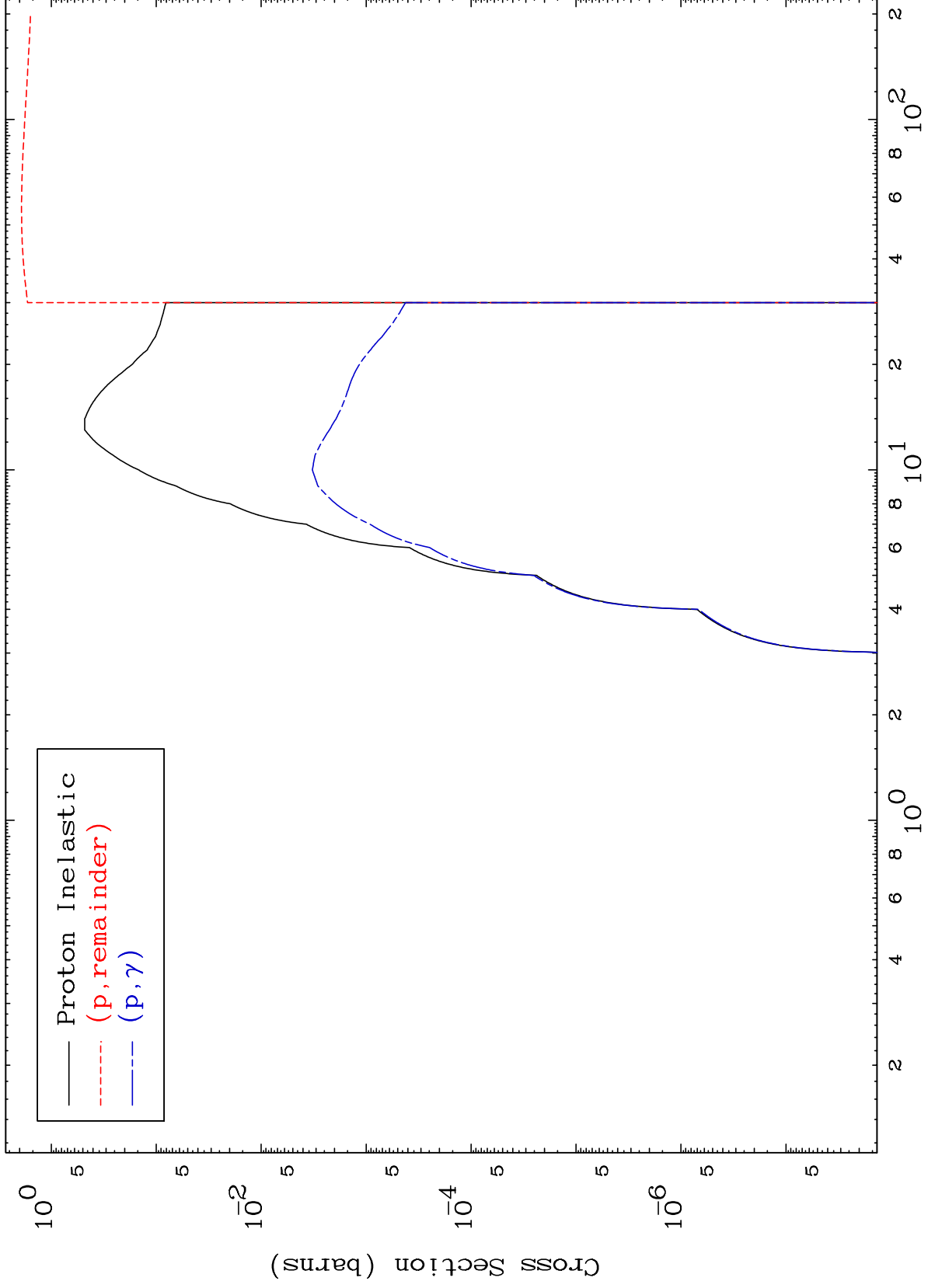
Press Mouse Button to Start

MAT 7904

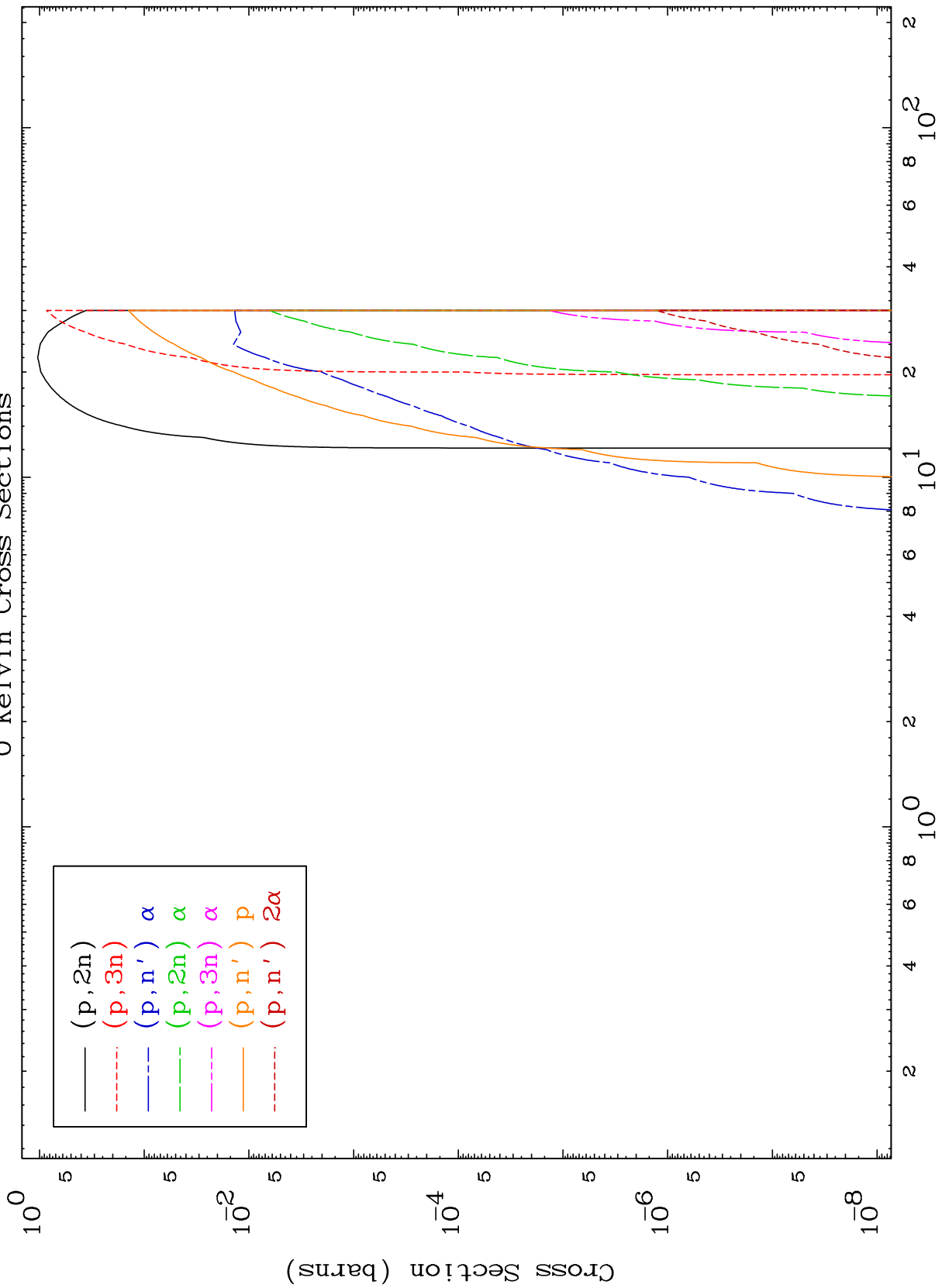
Proton Major

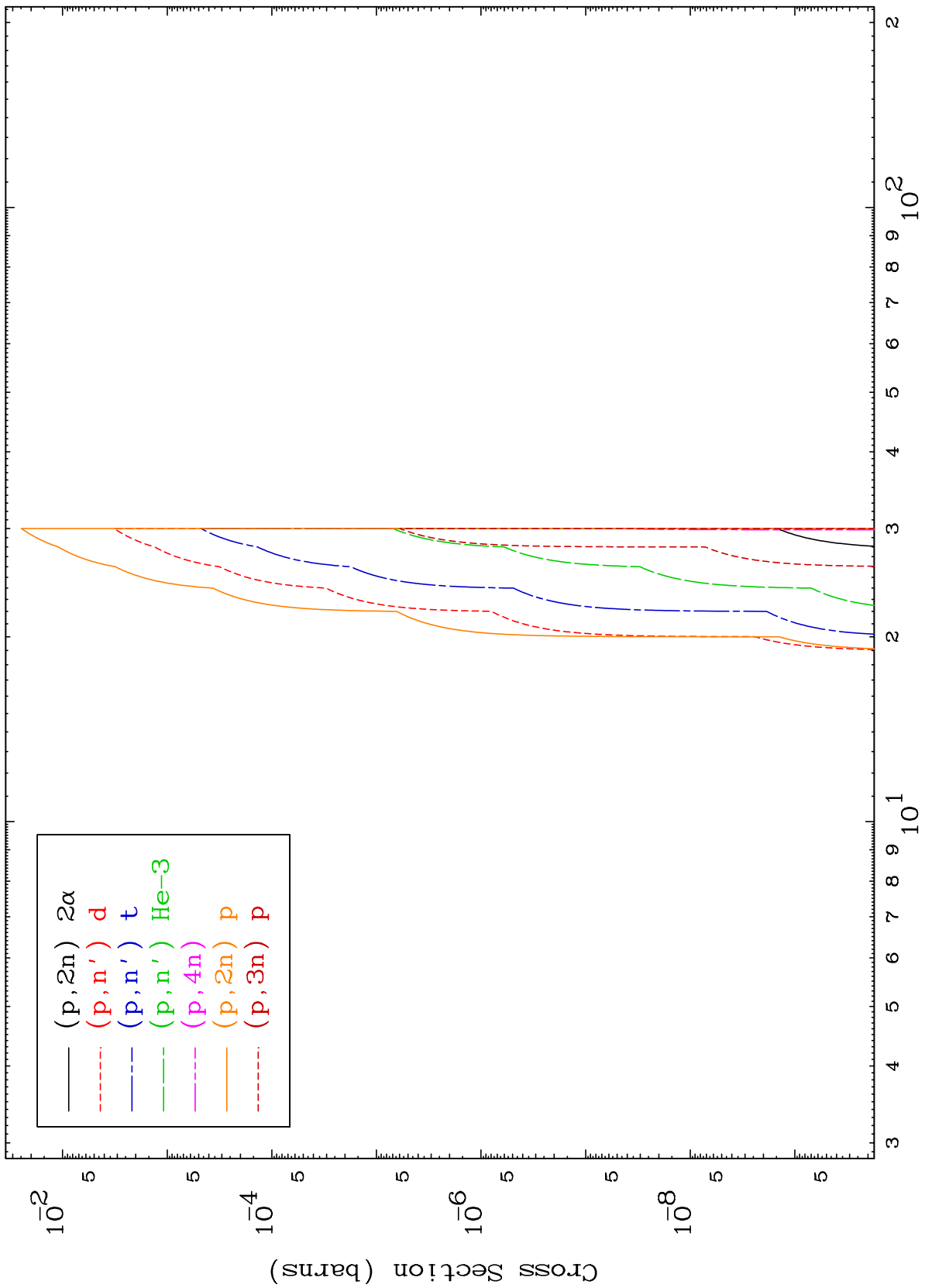
79-Au-190

0 Kelvin Cross Sections



— Proton Inelastic  
- - - (p, remainder)  
- - - (p, γ)

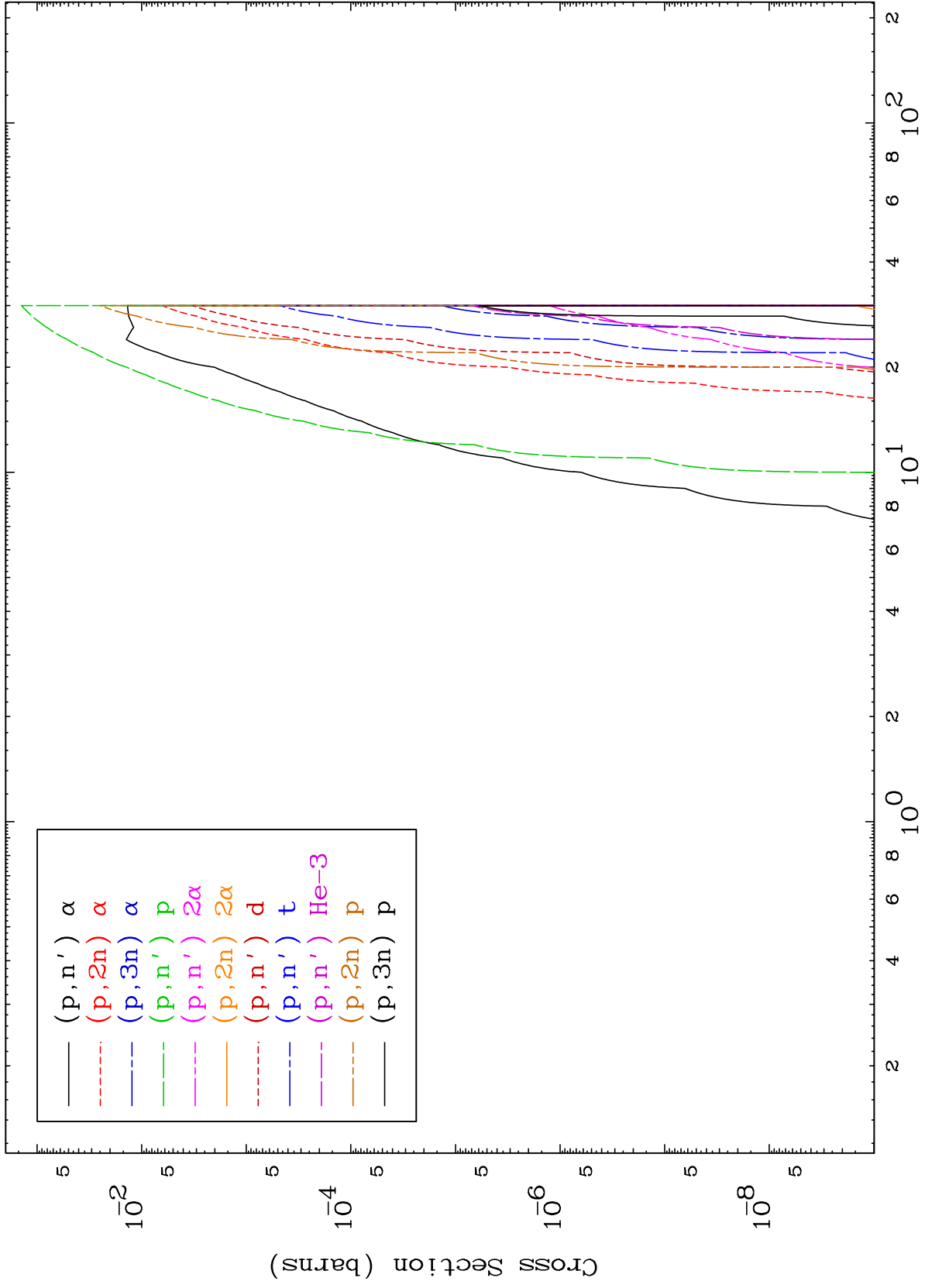


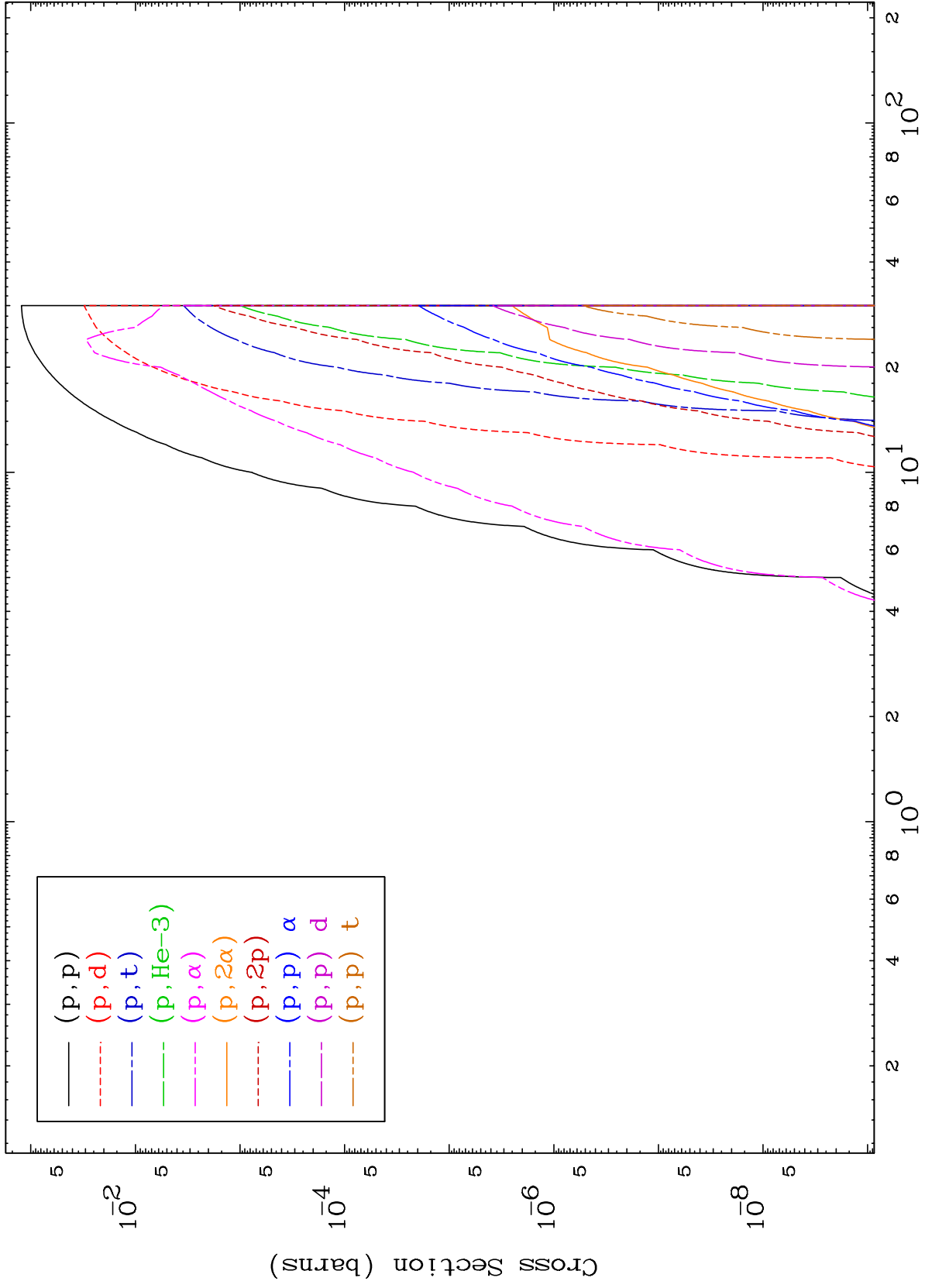


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Proton Charged Particle  
0 Kelvin Cross Sections

79-Au-190



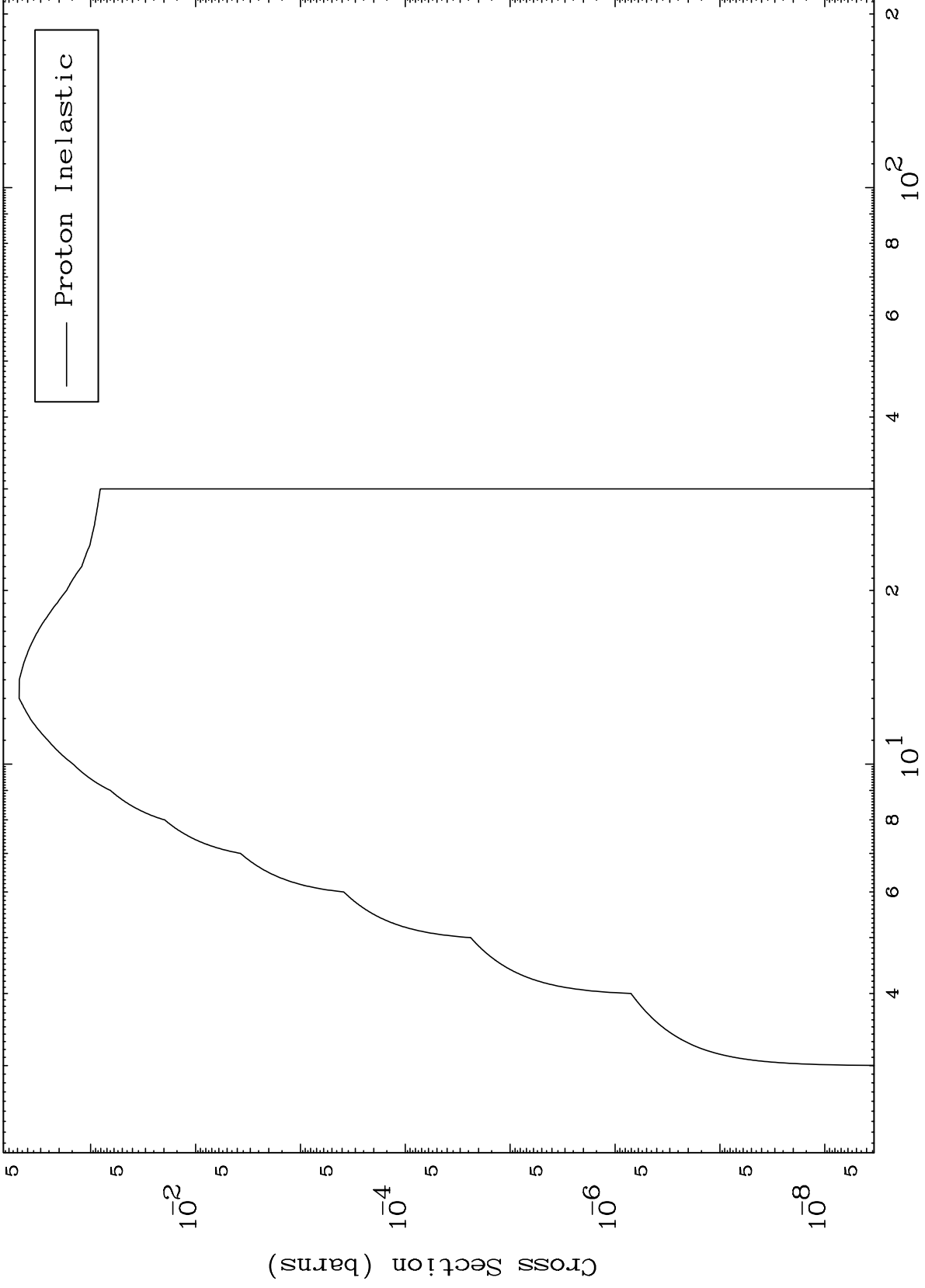


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(p,n') Level

79-Au-190

0 Kelvin Cross Sections



6

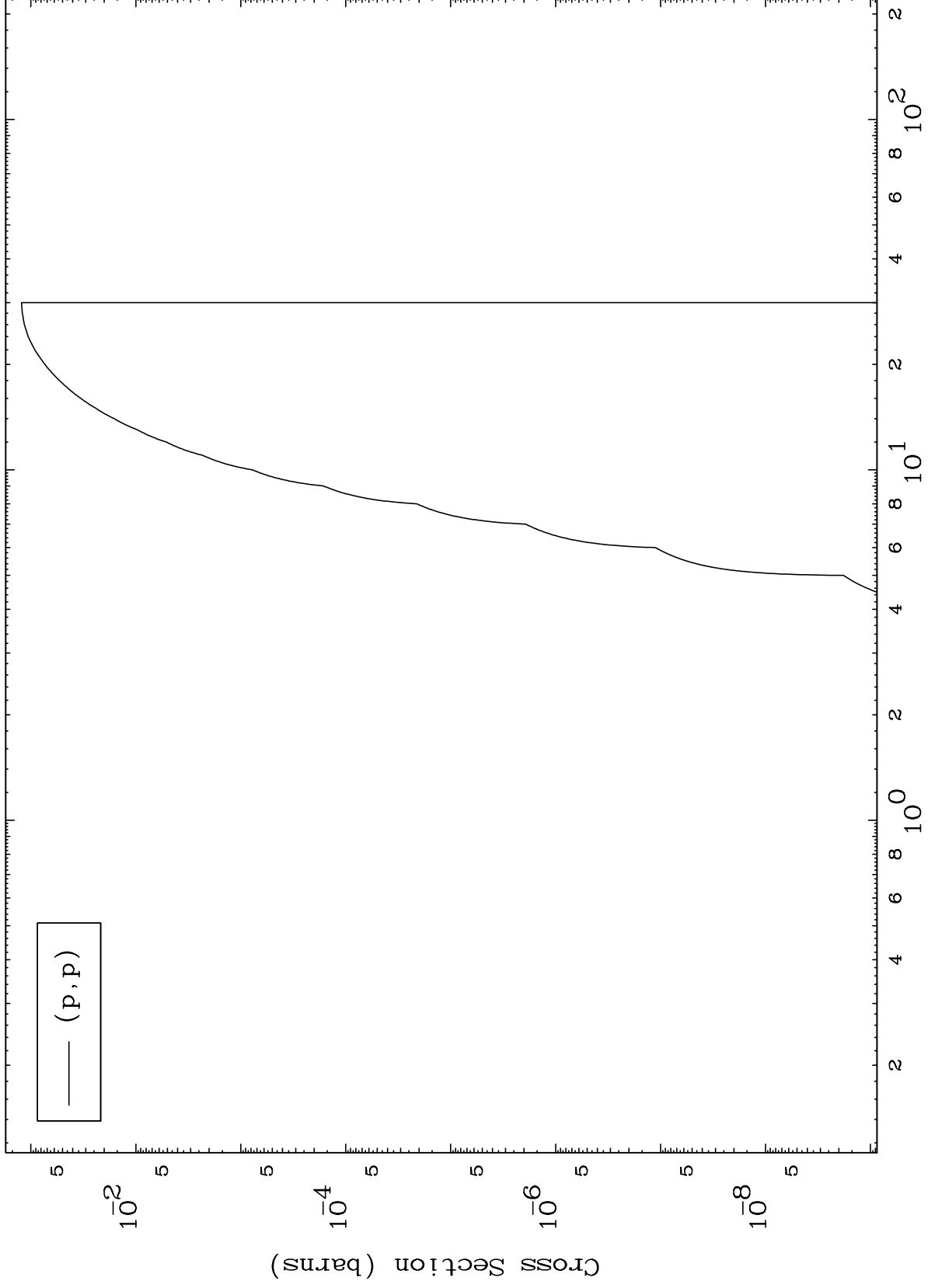
Incident Energy (MeV)

79-Au-190

MAT 7904

(p,p) Levels  
0 Kelvin Cross Sections

79-Au-190

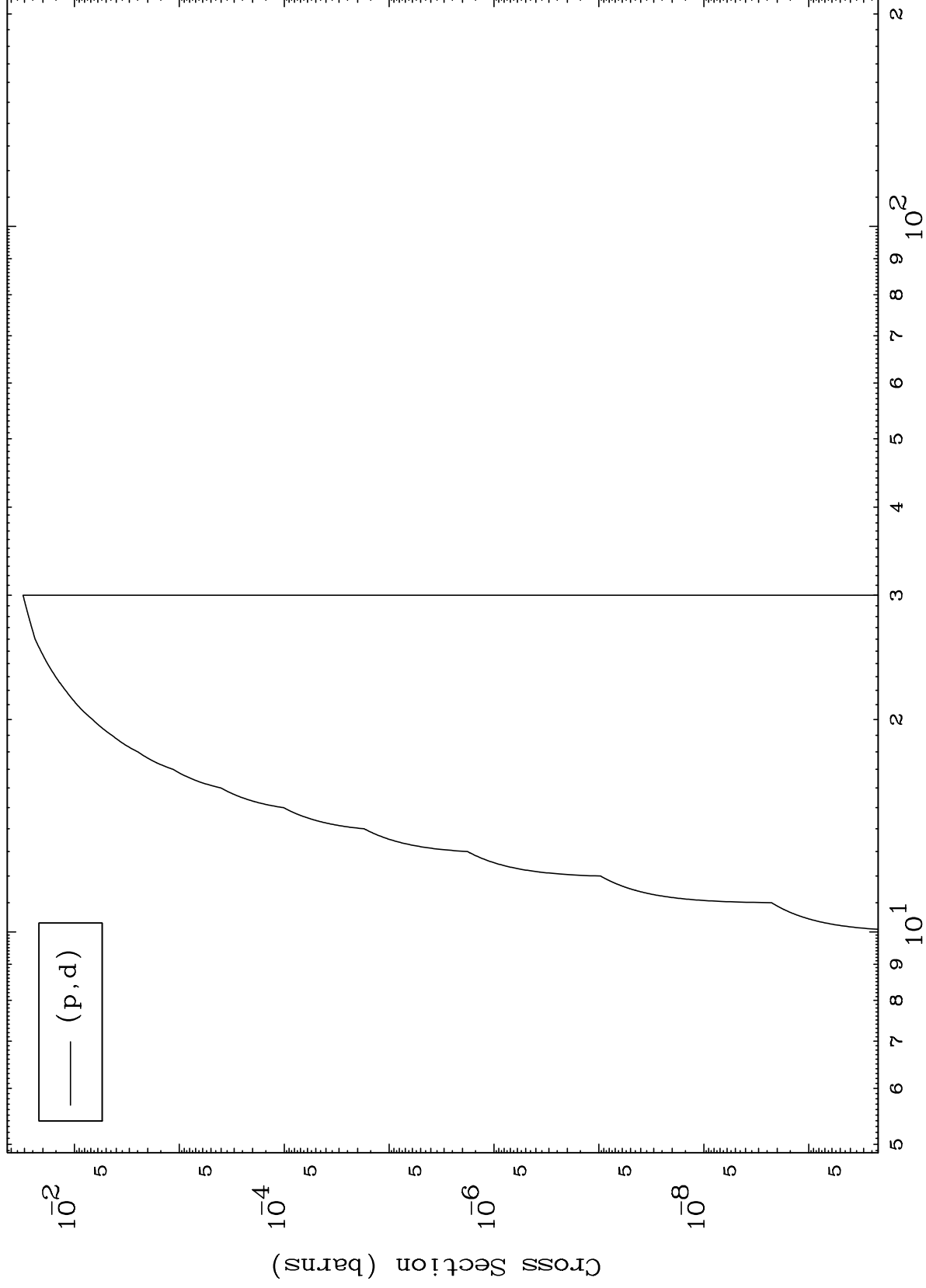




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(p,d) Levels  
0 Kelvin Cross Sections

79-Au-190



8

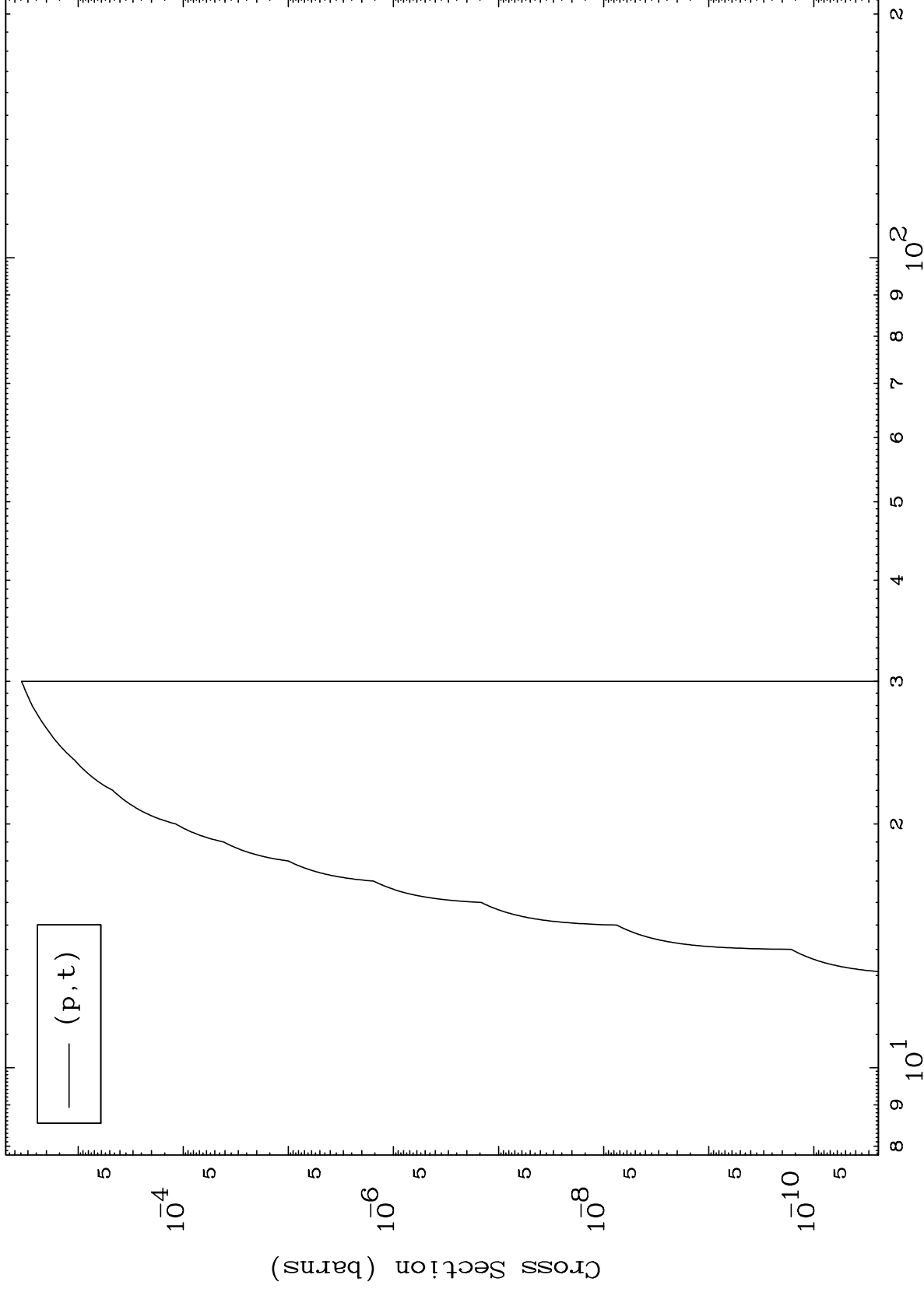
Incident Energy (MeV)

79-Au-190

MAT 7904

(p,t) Levels  
0 Kelvin Cross Sections

79-Au-190



9

Incident Energy (MeV)

79-Au-190

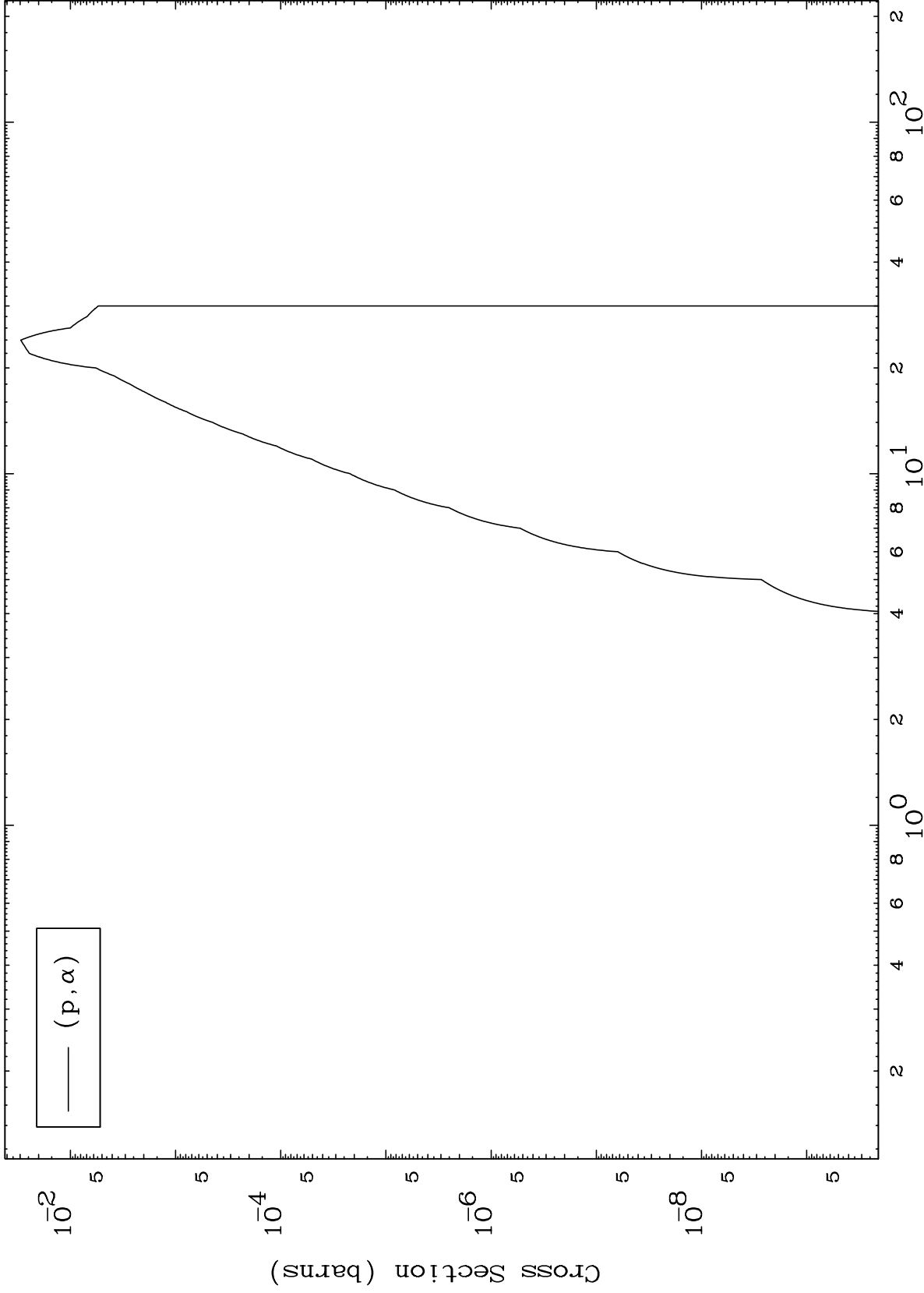


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(p,  $\alpha$ ) Levels

79-Au-190

0 Kelvin Cross Sections

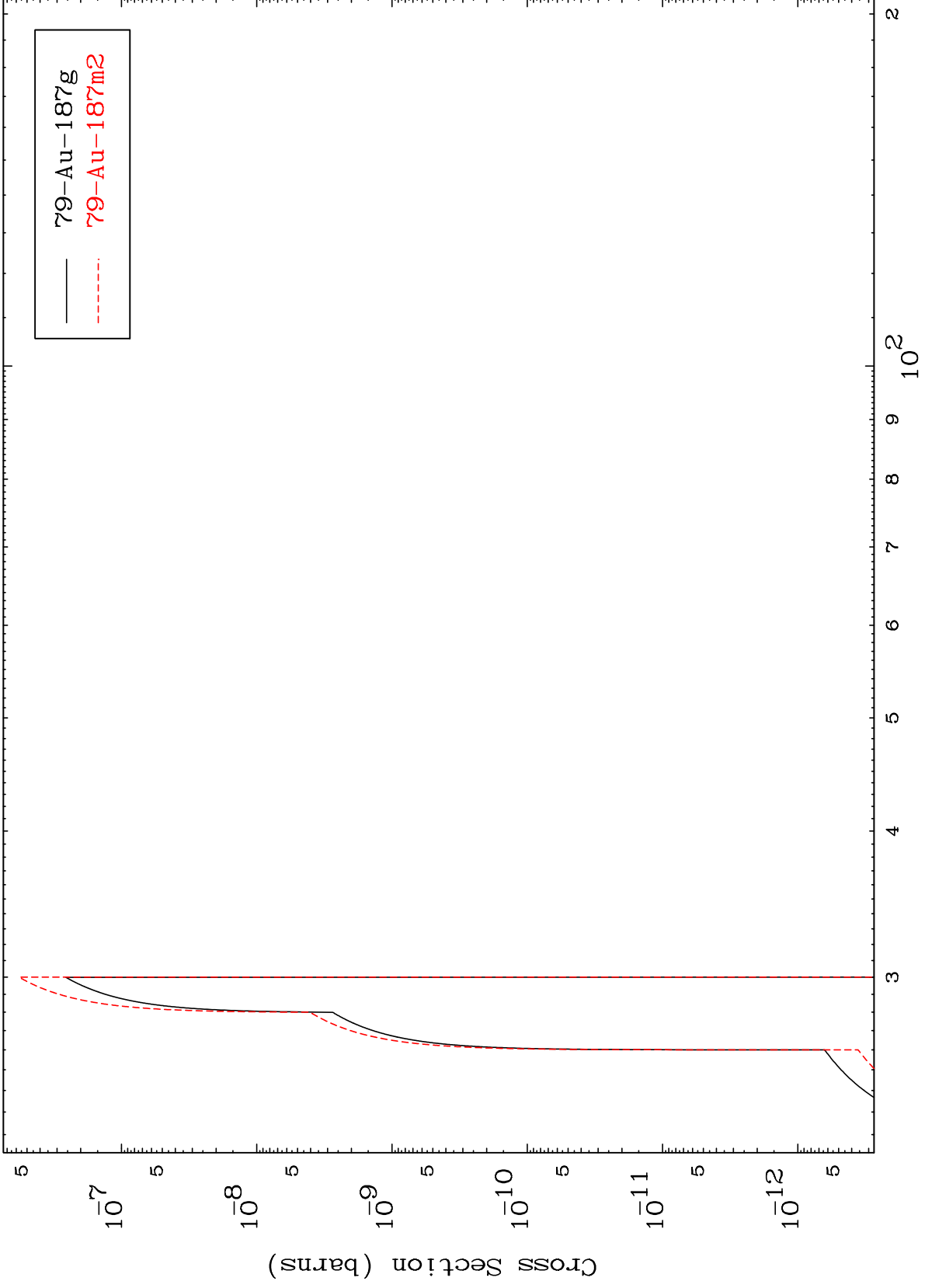


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(p,2n) d

79-Au-190

Radionuclide Production Cross Section



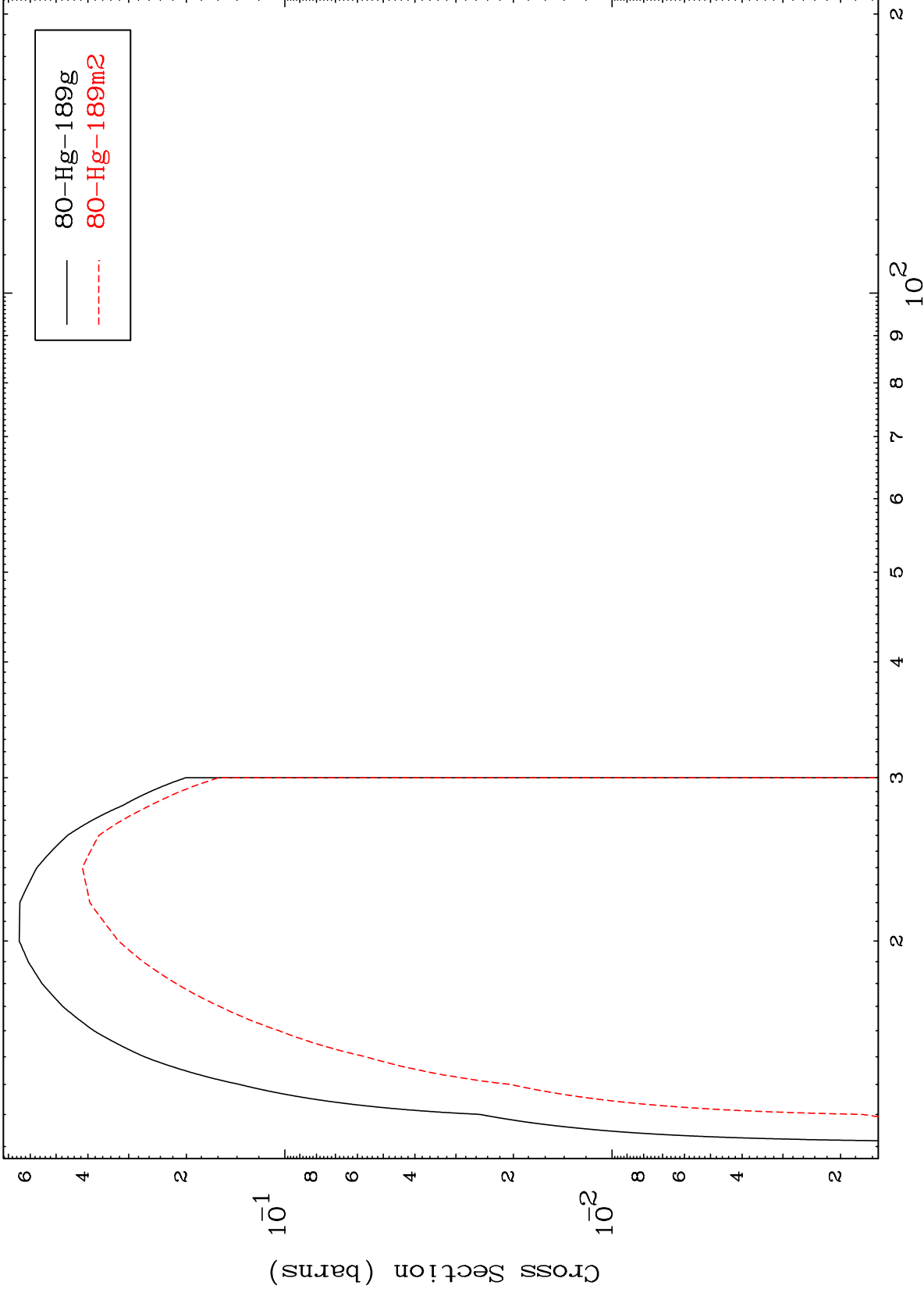
79-Au-187g  
79-Au-187m2

12

Incident Energy (MeV)

79-Au-190

Radionuclide Production Cross Section

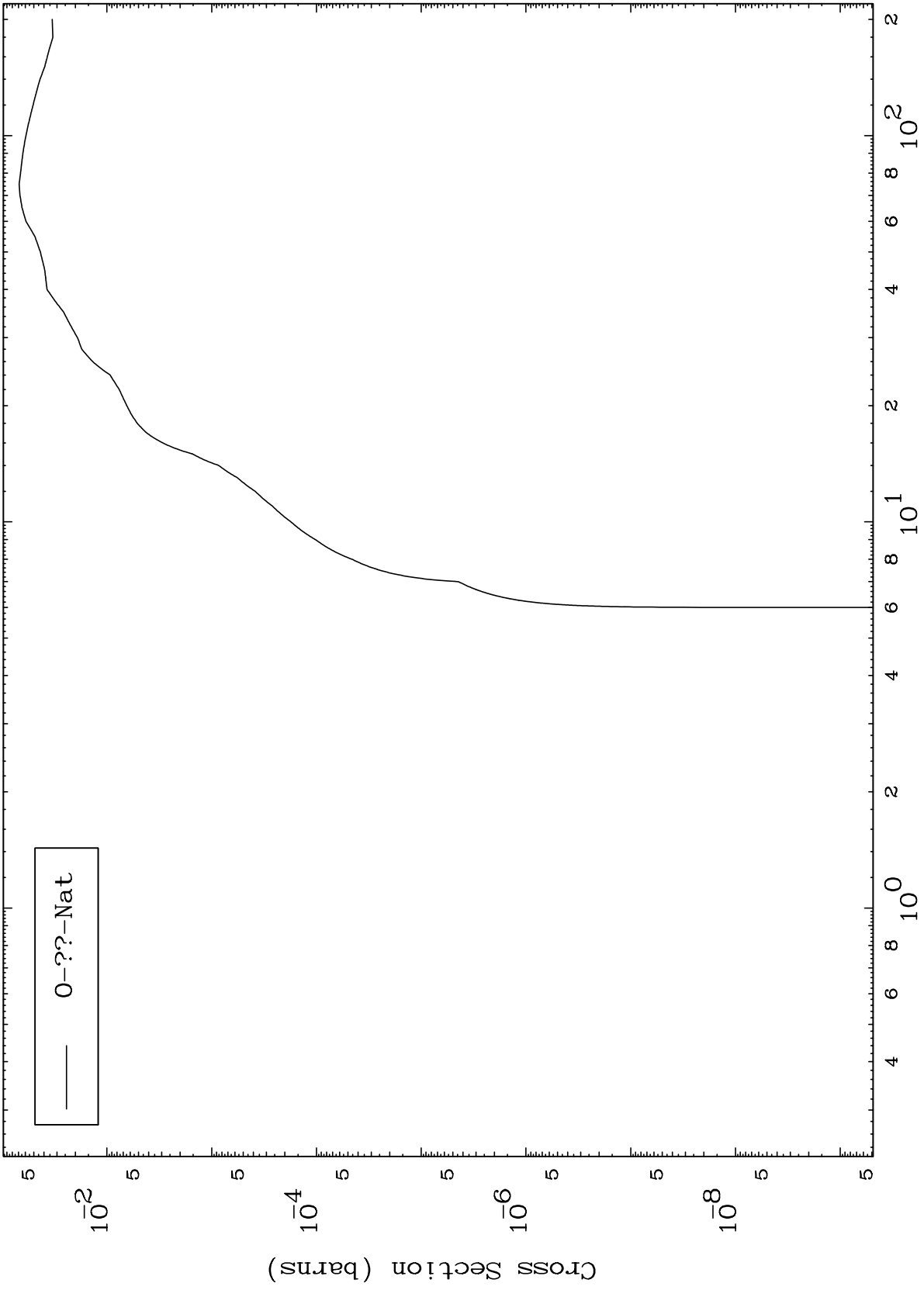


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Proton Fission

79-Au-190

Radionuclide Production Cross Section



14

Incident Energy (MeV)

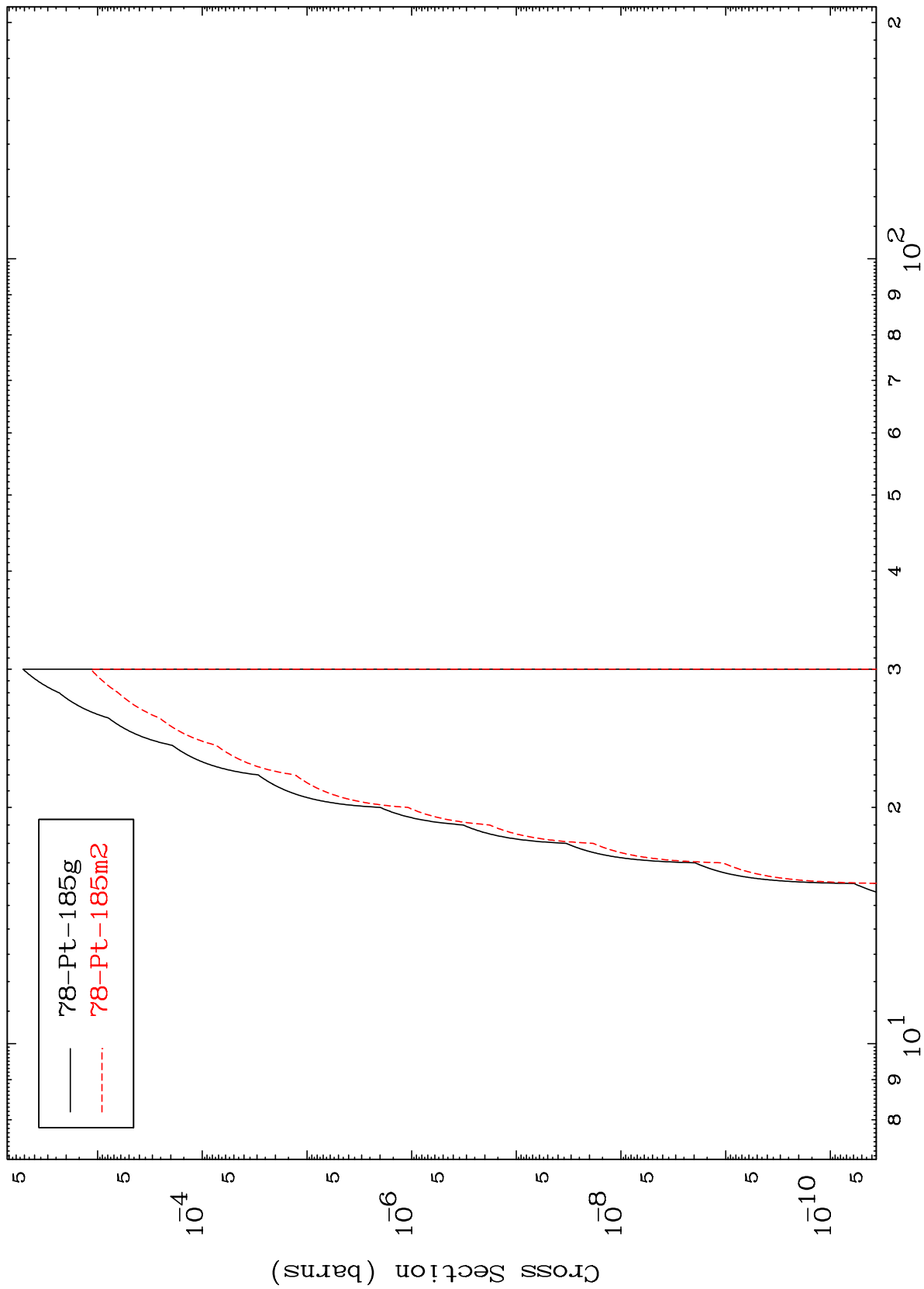
79-Au-190

MAT 7904

79-Au-190

(p,2n)  $\alpha$

Radionuclide Production Cross Section



15

Incident Energy (MeV)

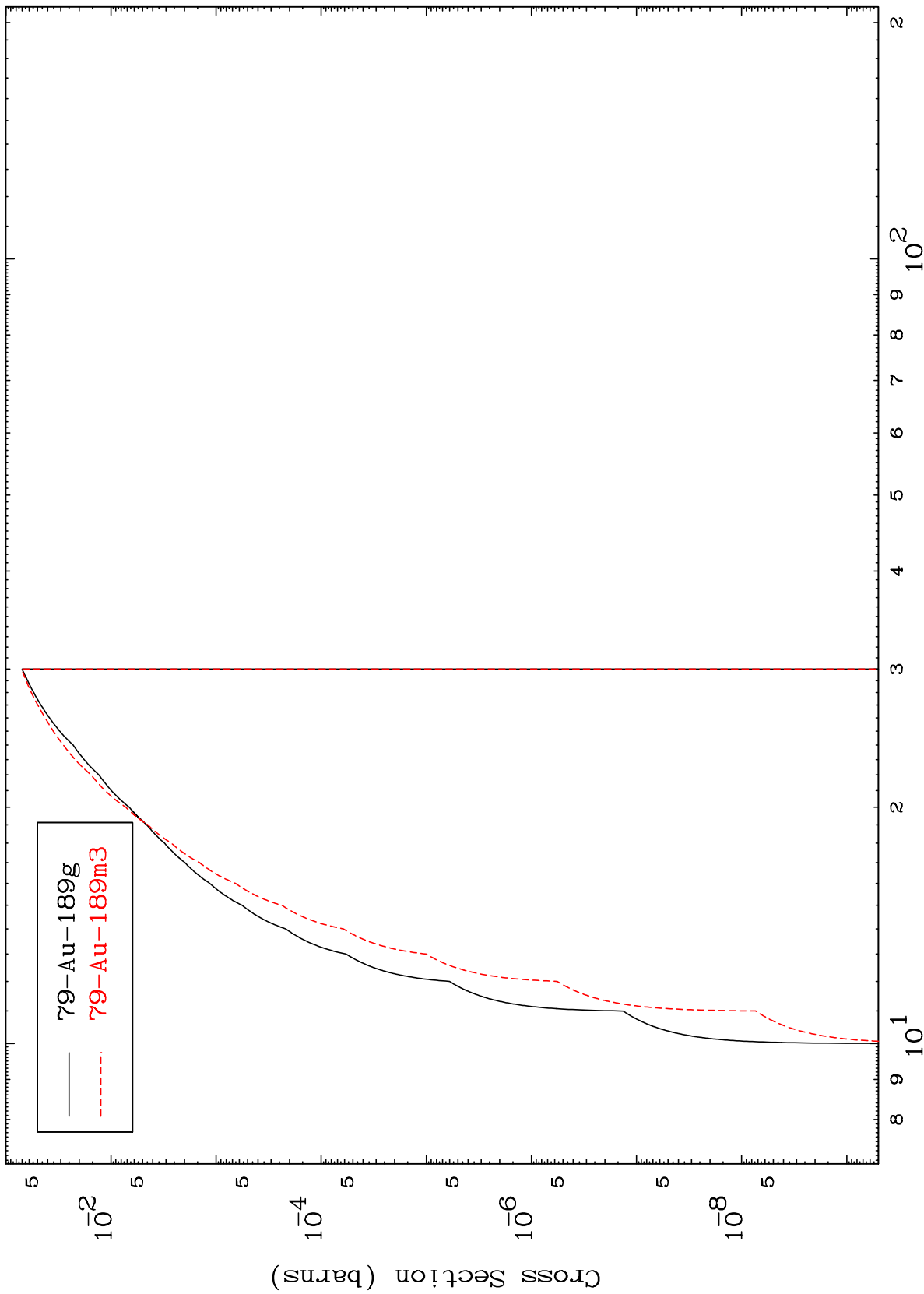
79-Au-190



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79-Au-190

(p,n') p  
Radionuclide Production Cross Section



79-Au-190

Incident Energy (MeV)

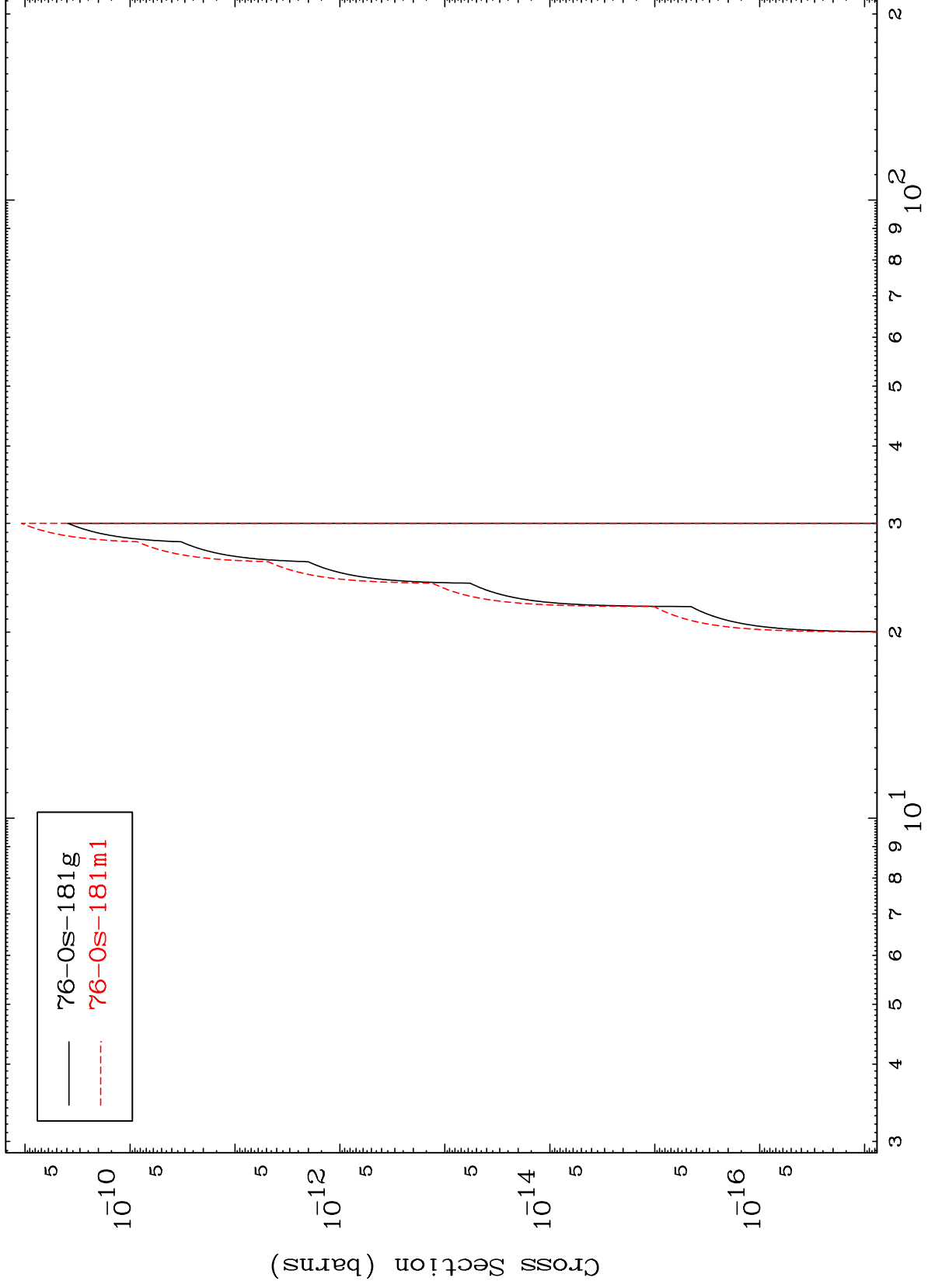
16

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$^{79}\text{Au-190}$  (p,2n)  $^{2\alpha}$

$^{79}\text{Au-190}$

Radionuclide Production Cross Section



17

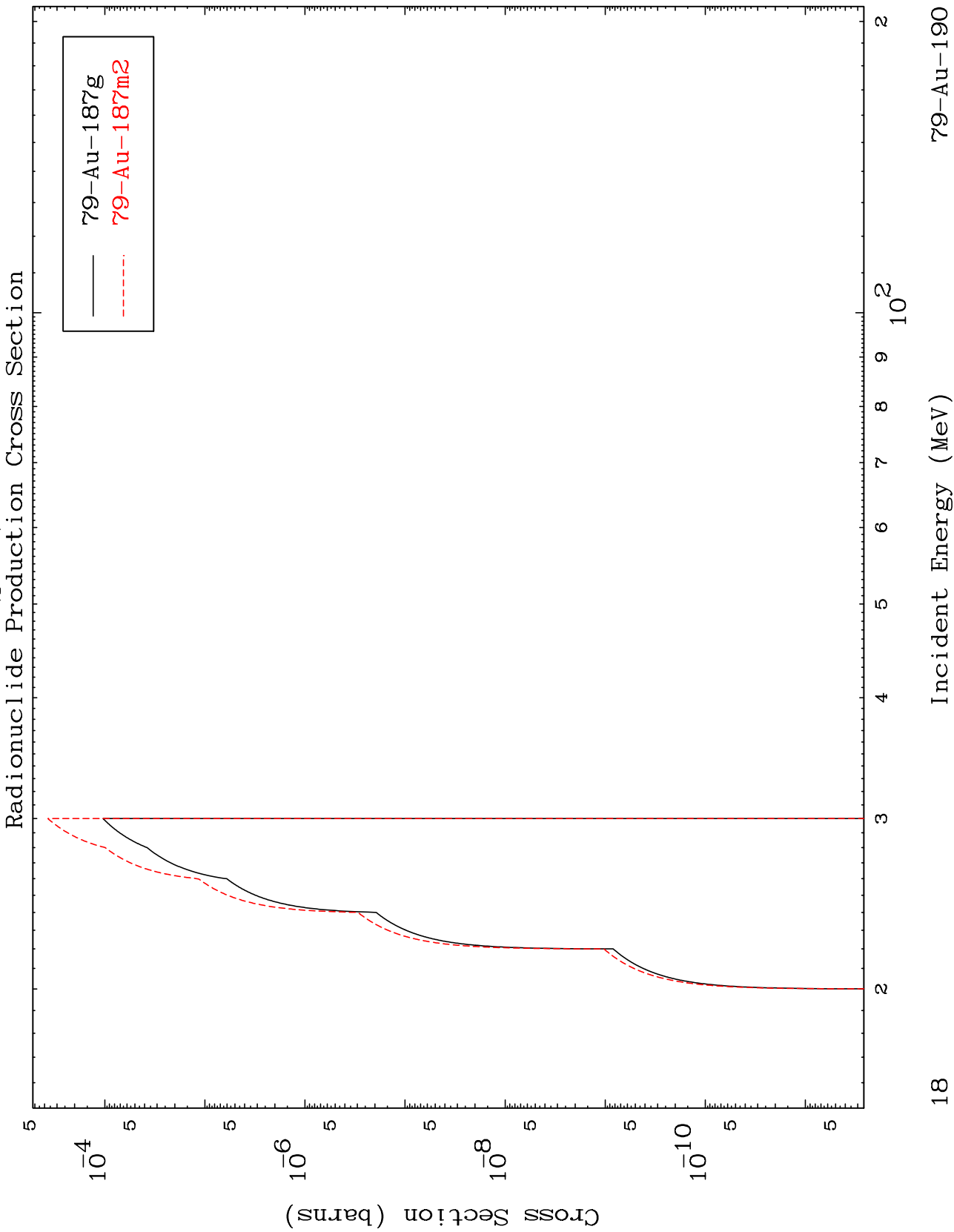
Incident Energy (MeV)

$^{79}\text{Au-190}$

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(p,n') t

79-Au-190



18

Incident Energy (MeV)

79-Au-190

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(p,4n)

79-Au-190

Radionuclide Production Cross Section

— 80-Hg-187g

$\times 10^{-8}$

3.0

2.5

2.0

1.5

Cross Section (barns)

4

5

6

7

8

9

10

11

12

13

14

15

19

Incident Energy (MeV)

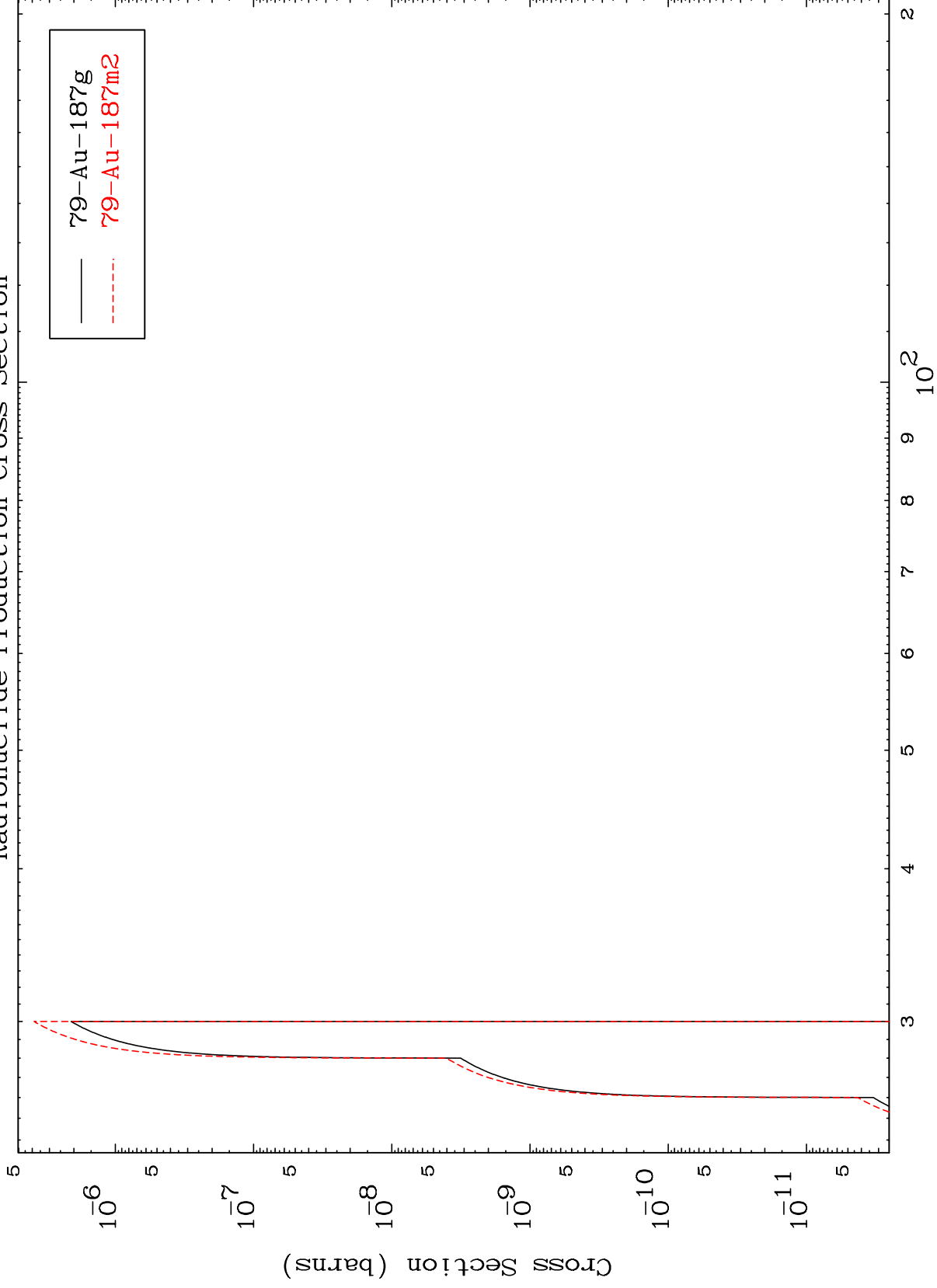
79-Au-190

MAT 7904

(p,3n) p

<sup>79</sup>Au-190

Radionuclide Production Cross Section



— <sup>79</sup>Au-187g  
- - - <sup>79</sup>Au-187m2

20

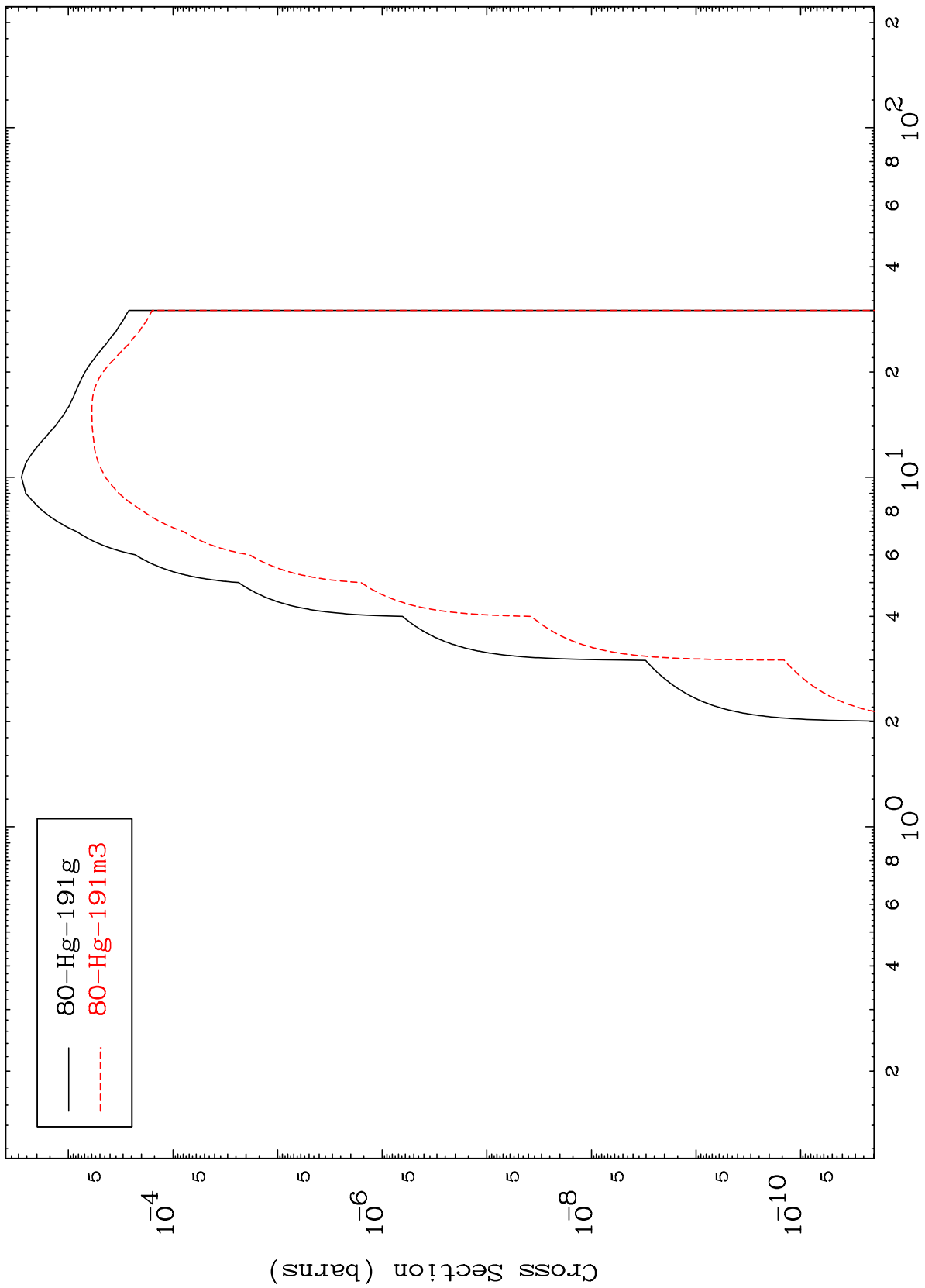
Incident Energy (MeV)

<sup>79</sup>Au-190

MAT 7904

79-Au-190

(p,  $\gamma$ )  
Radionuclide Production Cross Section



80-Hg-191g  
80-Hg-191m3

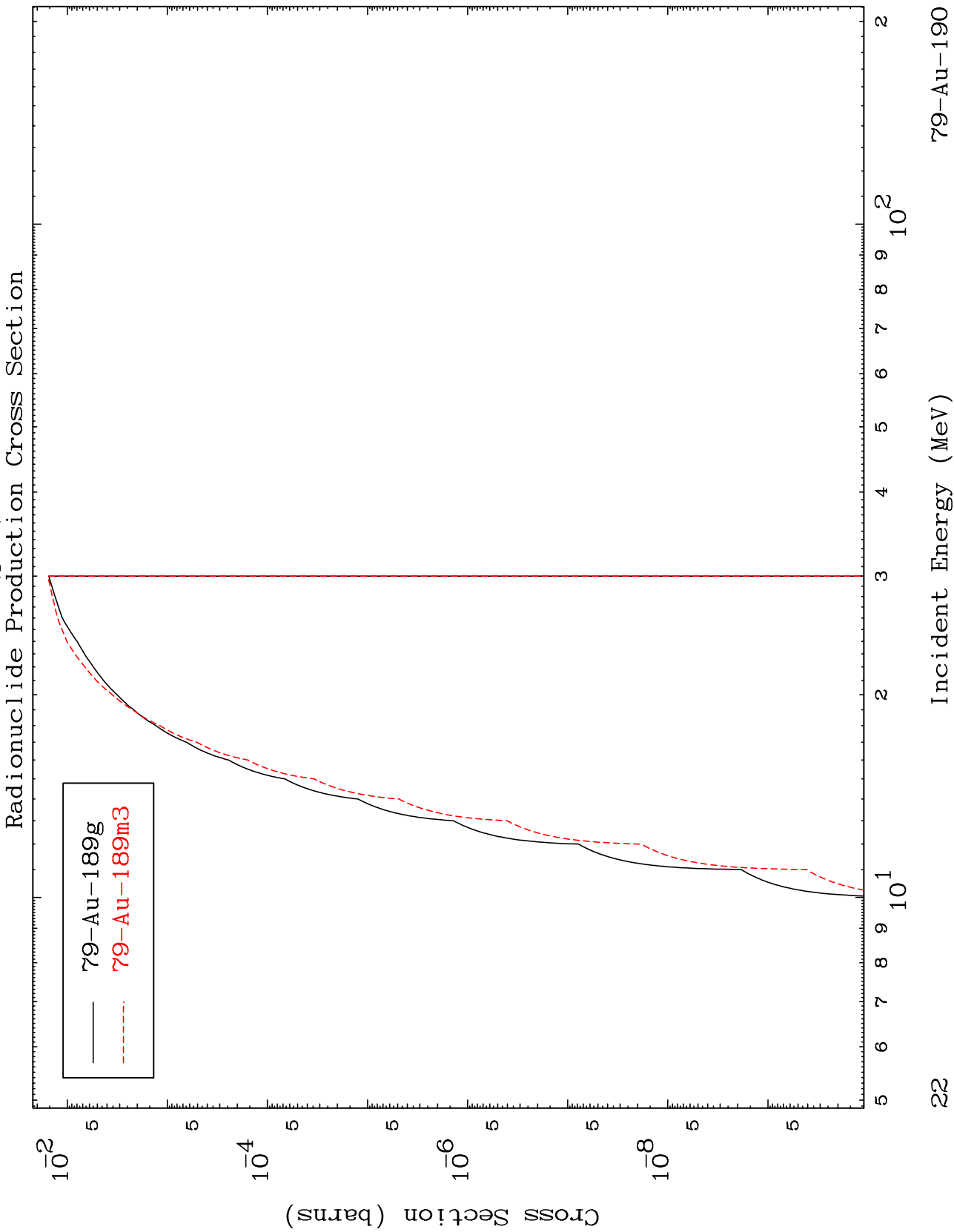
79-Au-190

Incident Energy (MeV)

21

MAT 7904

<sup>79</sup>Au-190



22

Incident Energy (MeV)

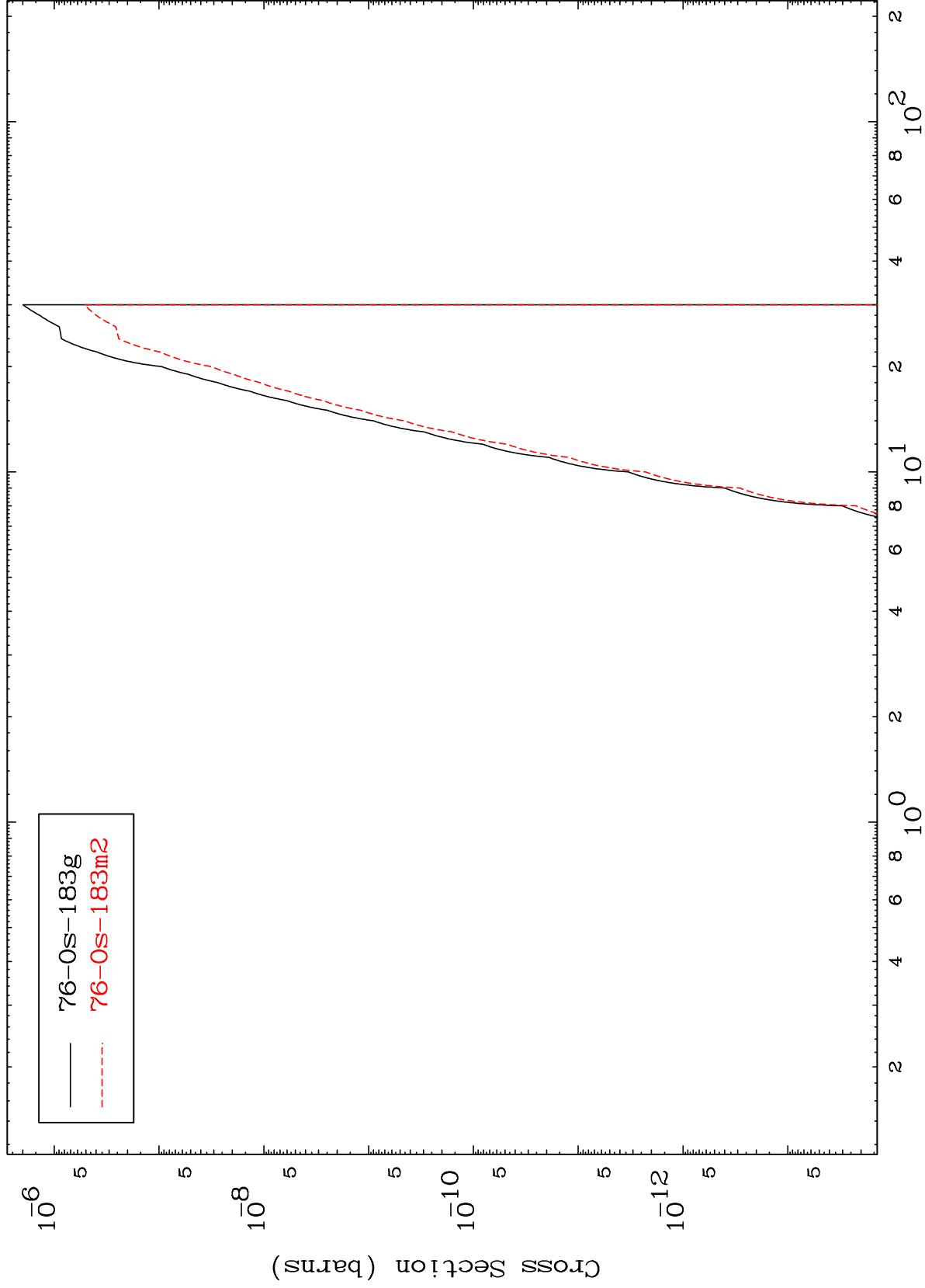
<sup>79</sup>Au-190

MAT 7904

(p,2 $\alpha$ )

<sup>79</sup>Au-190

Radionuclide Production Cross Section





MAT 7904

(p,p)  $\alpha$

79-Au-190

Radionuclide Production Cross Section

