

Program EVALPLOT  
(Version 2021-1)

by

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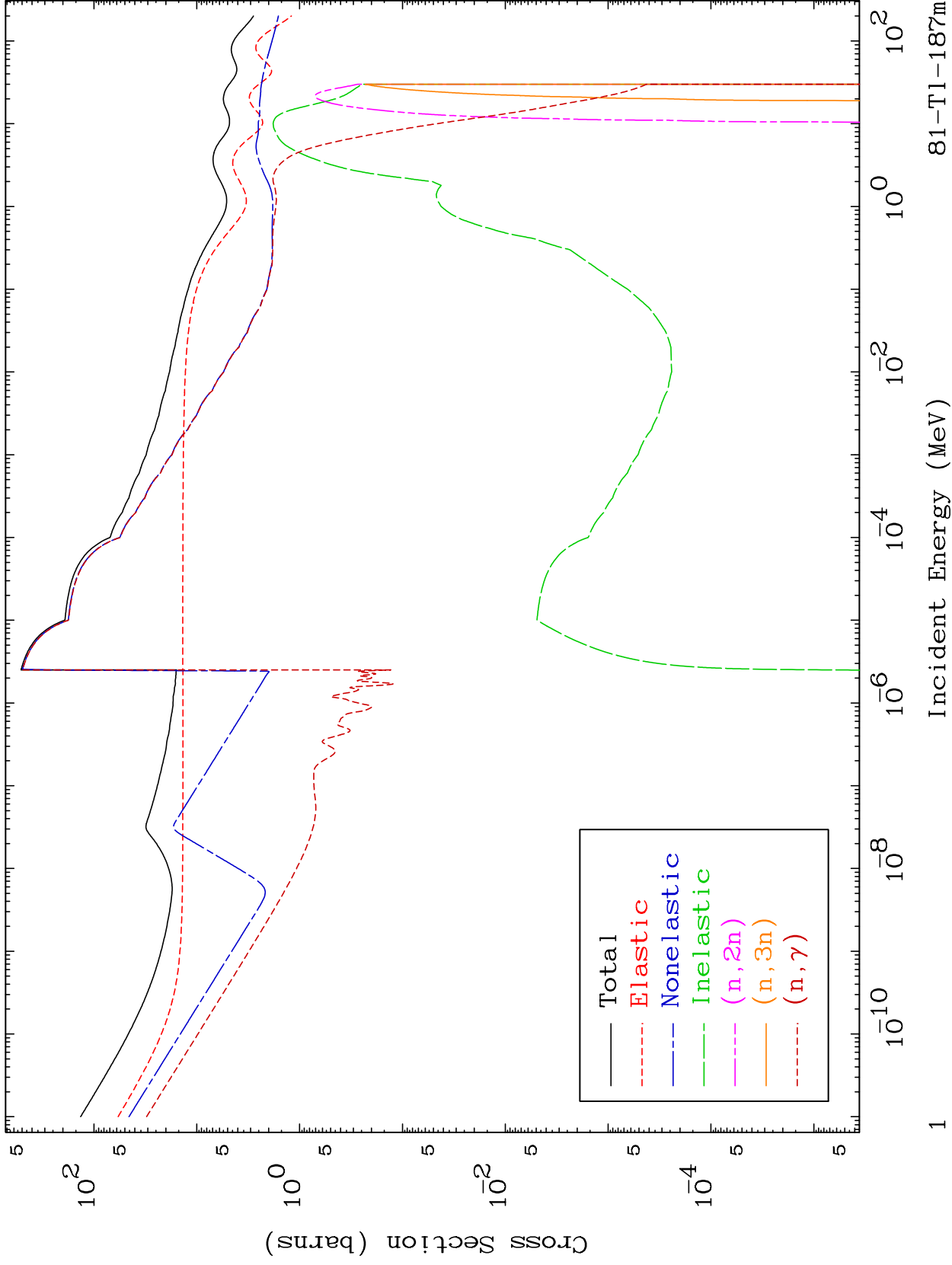
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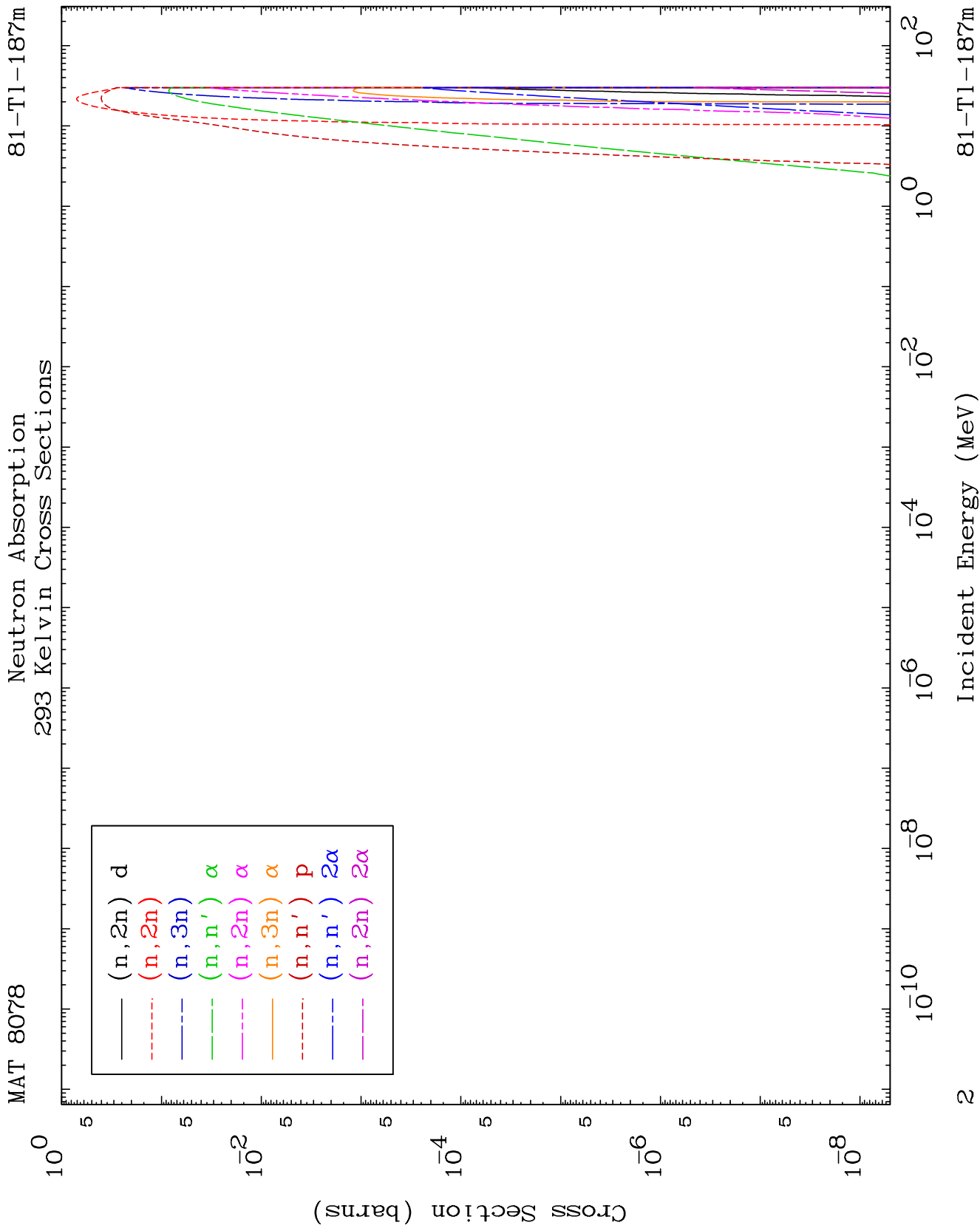
Press Mouse Button to Start

MAT 8078

Neutron Major  
293 Kelvin Cross Sections

81-TI-187m

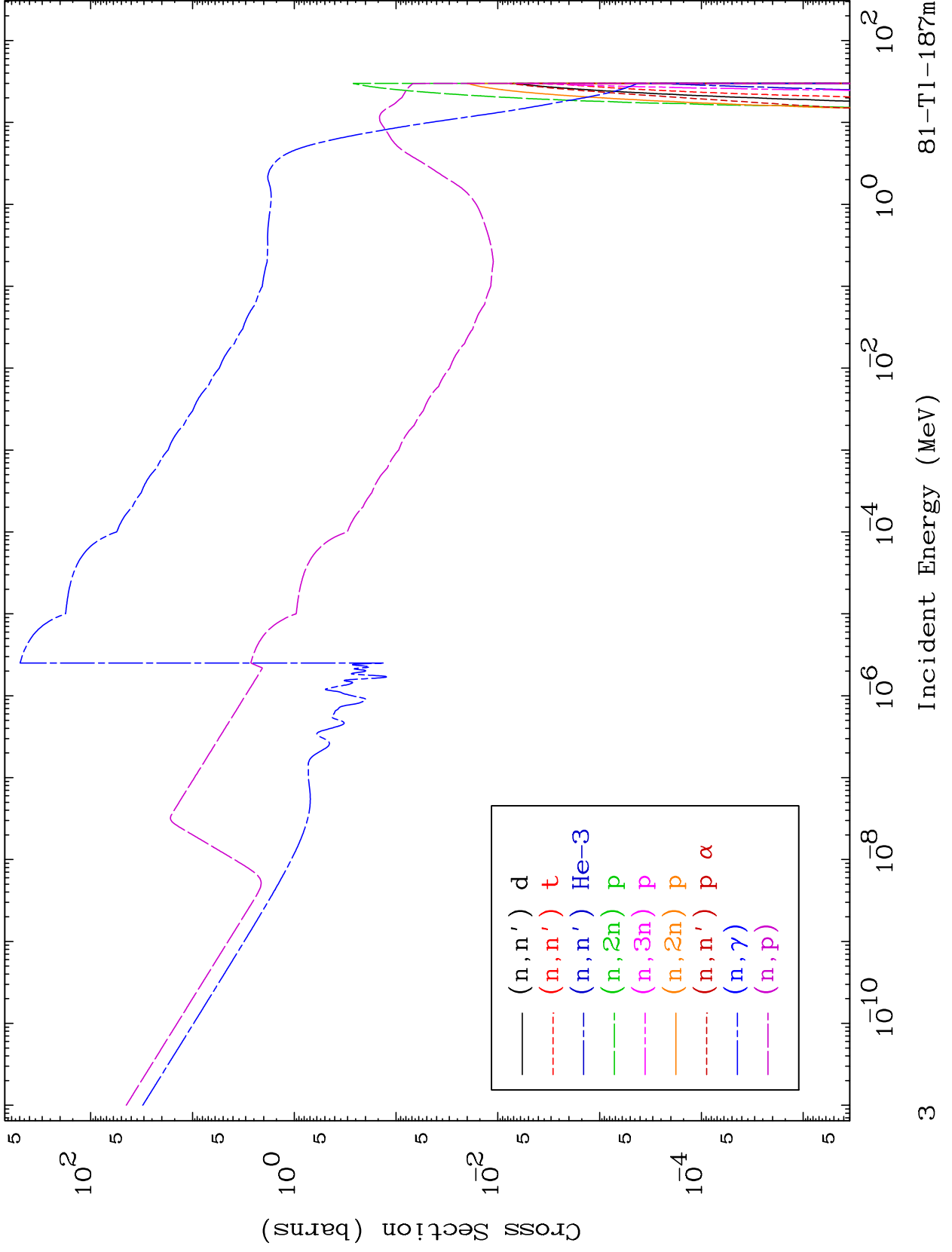




MAT 8078

Neutron Absorption  
293 Kelvin Cross Sections

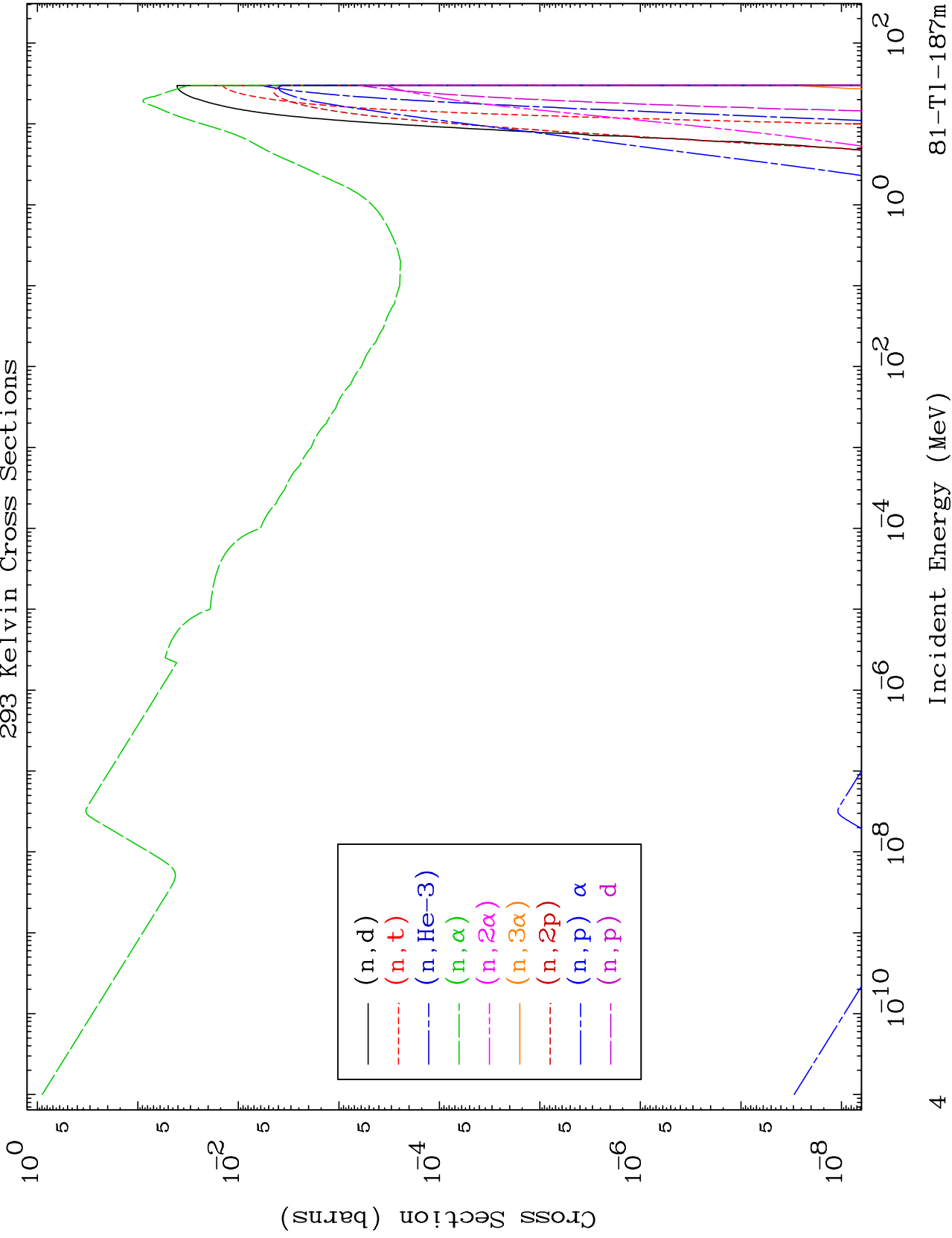
81-Tl-187m

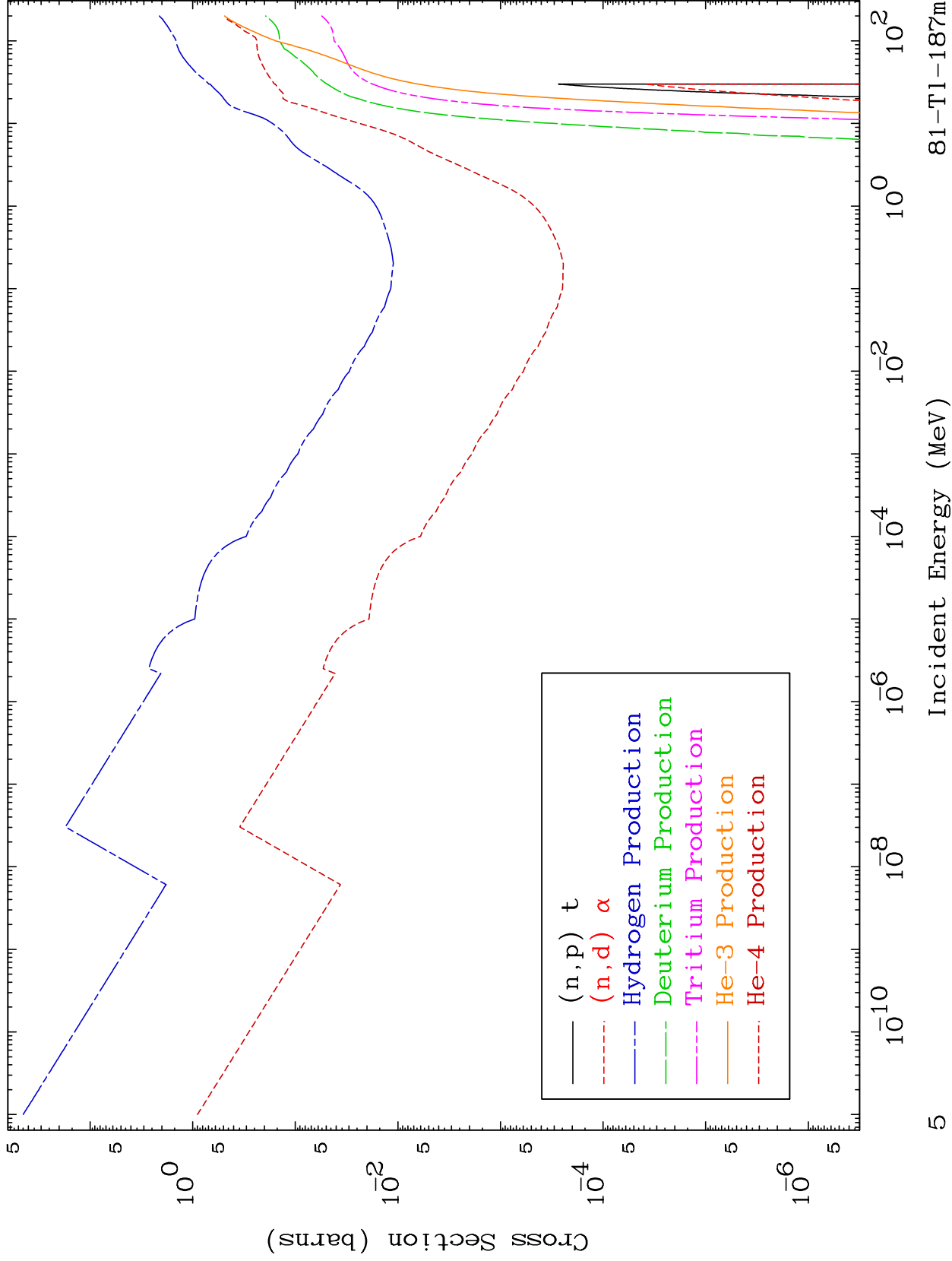


MAT 8078

Neutron Absorption  
293 Kelvin Cross Sections

81-Tl-187m

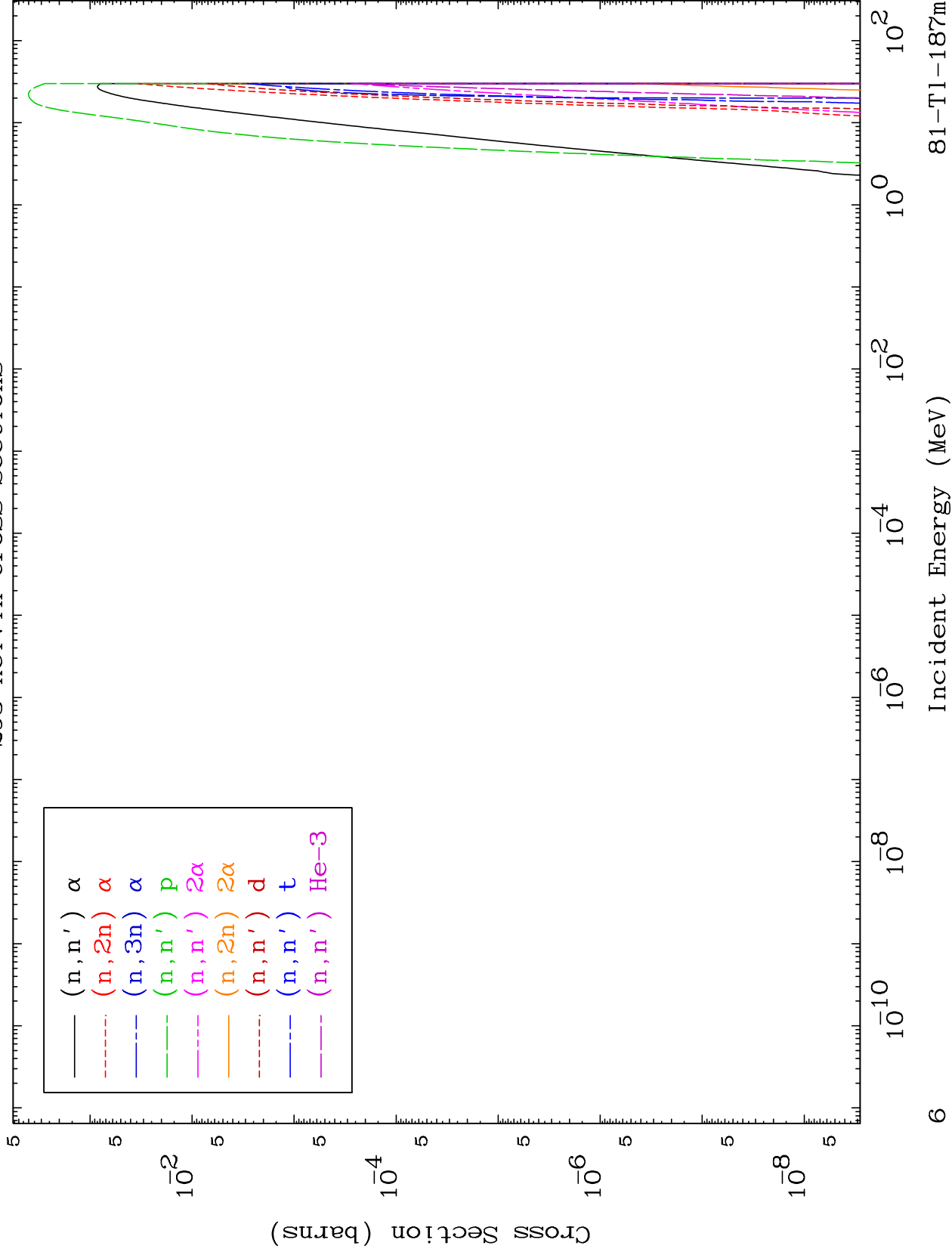




MAT 8078

Charged Particle  
293 Kelvin Cross Sections

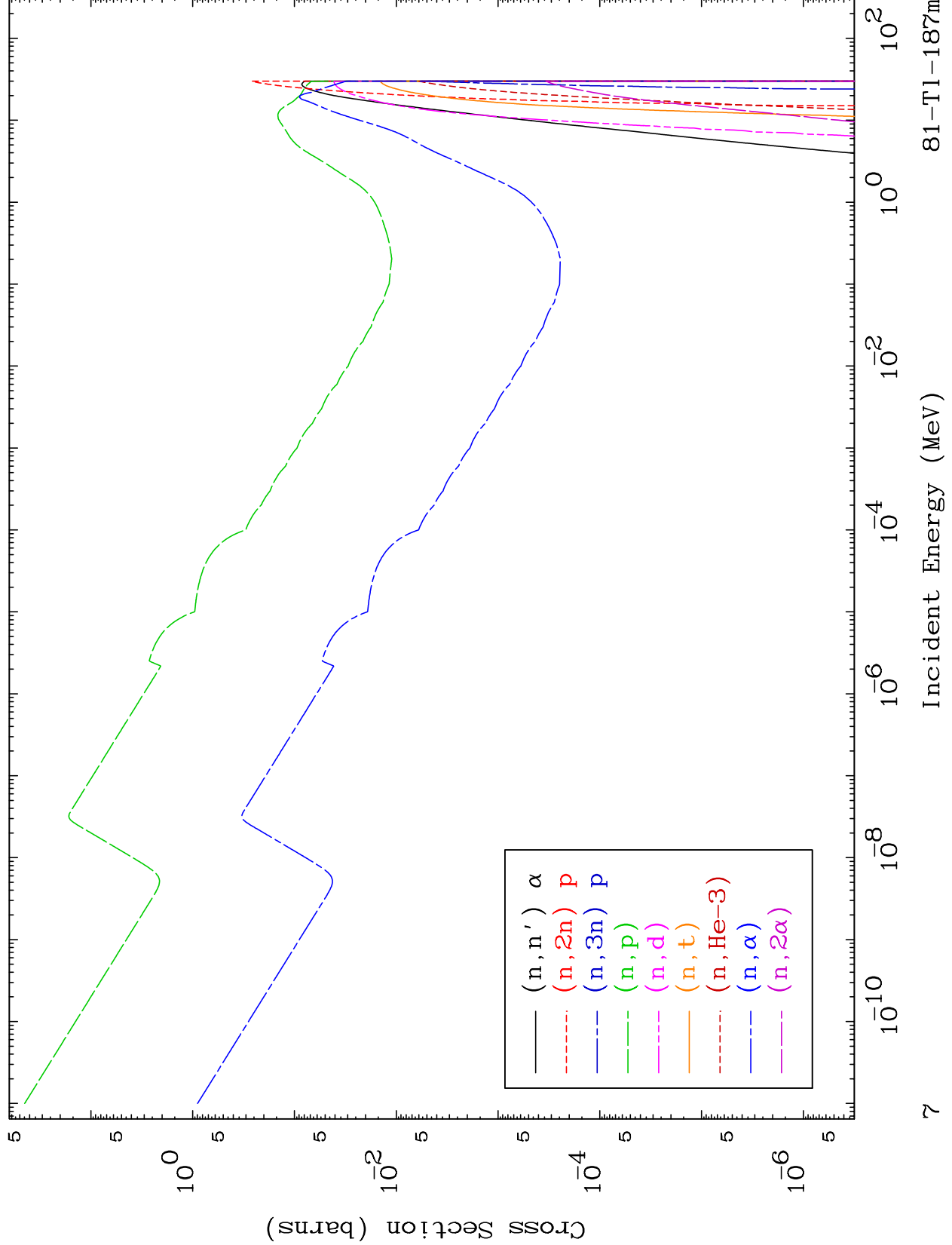
81-Tl-187m



MAT 8078

Charged Particle  
293 Kelvin Cross Sections

81-Tl-187m

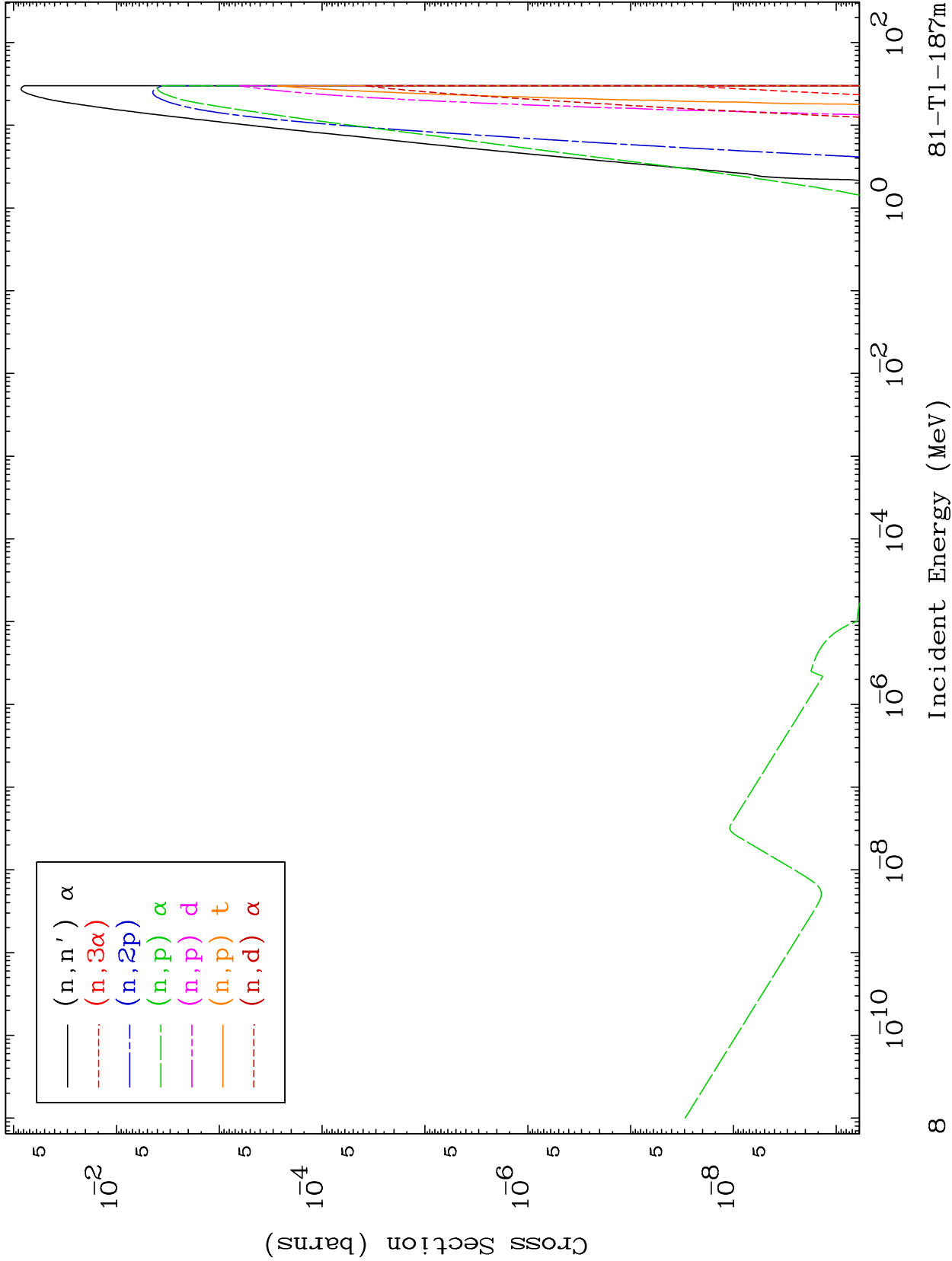




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Charged Particle  
293 Kelvin Cross Sections

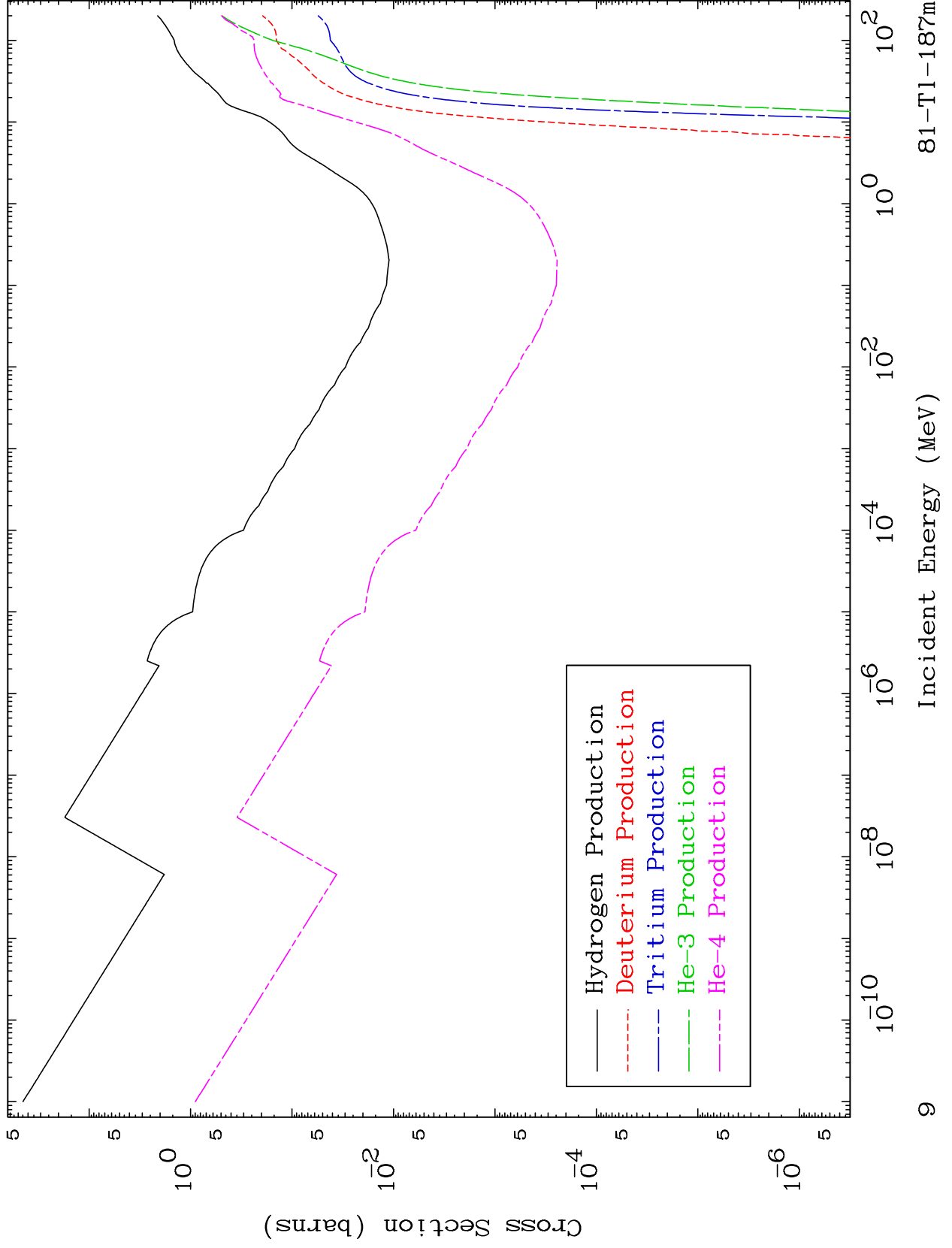
81-Tl-187m



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Particle Production  
293 Kelvin Cross Sections

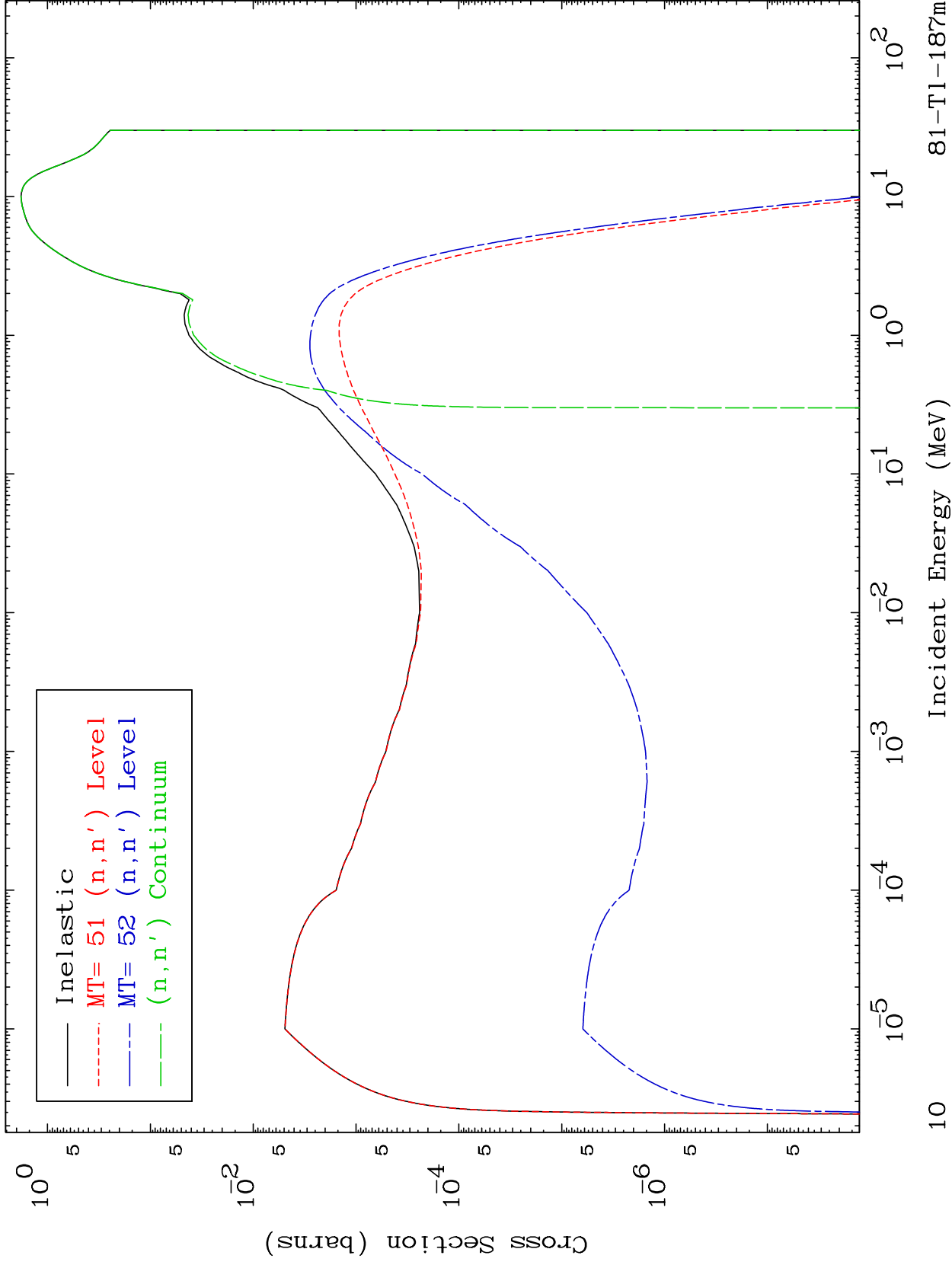
81-Tl-187m



MAT 8078

(n,n') Levels  
293 Kelvin Cross Sections

81-Tl-187m



10

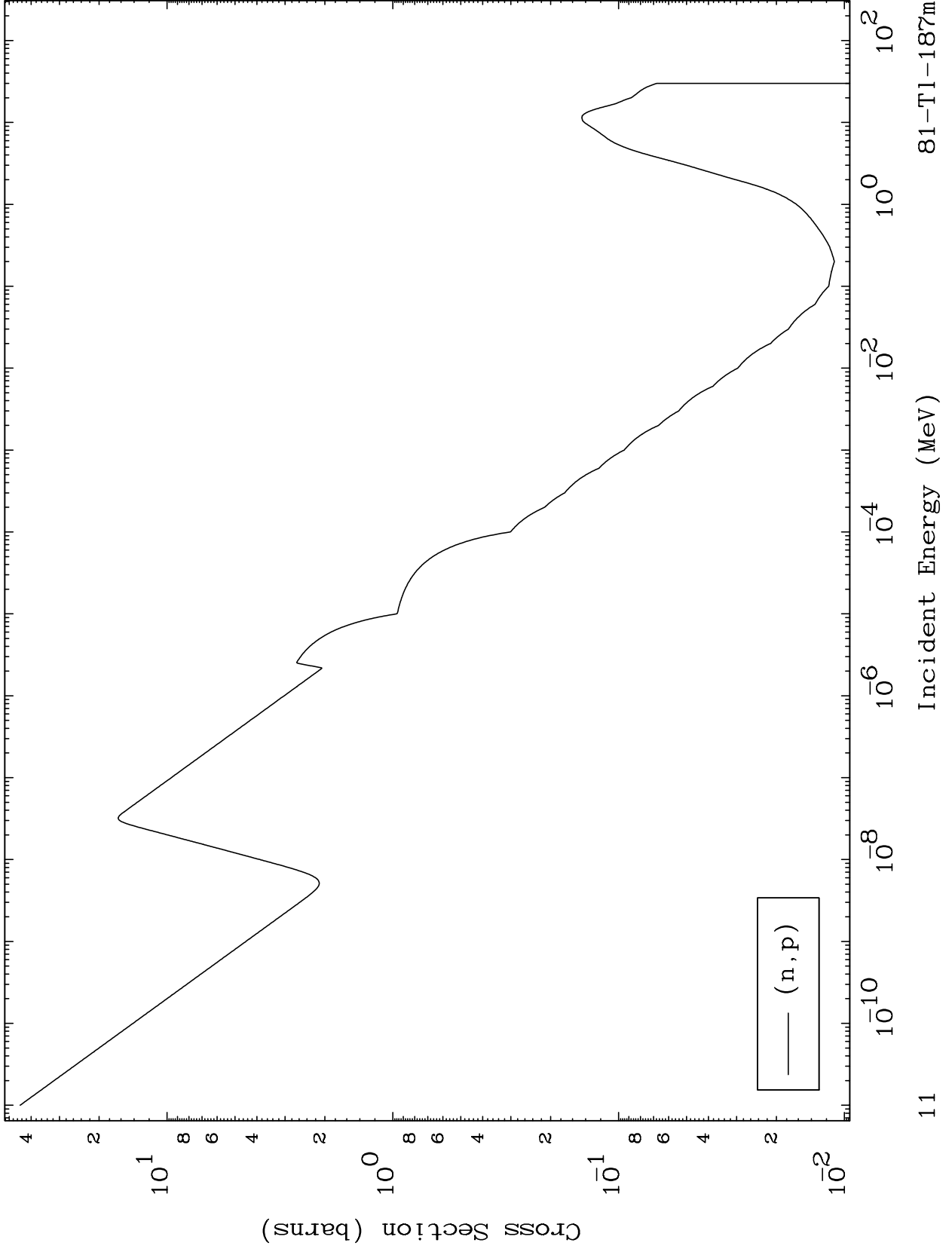
Incident Energy (MeV)

81-Tl-187m

MAT 8078

(n,p) Levels  
293 Kelvin Cross Sections

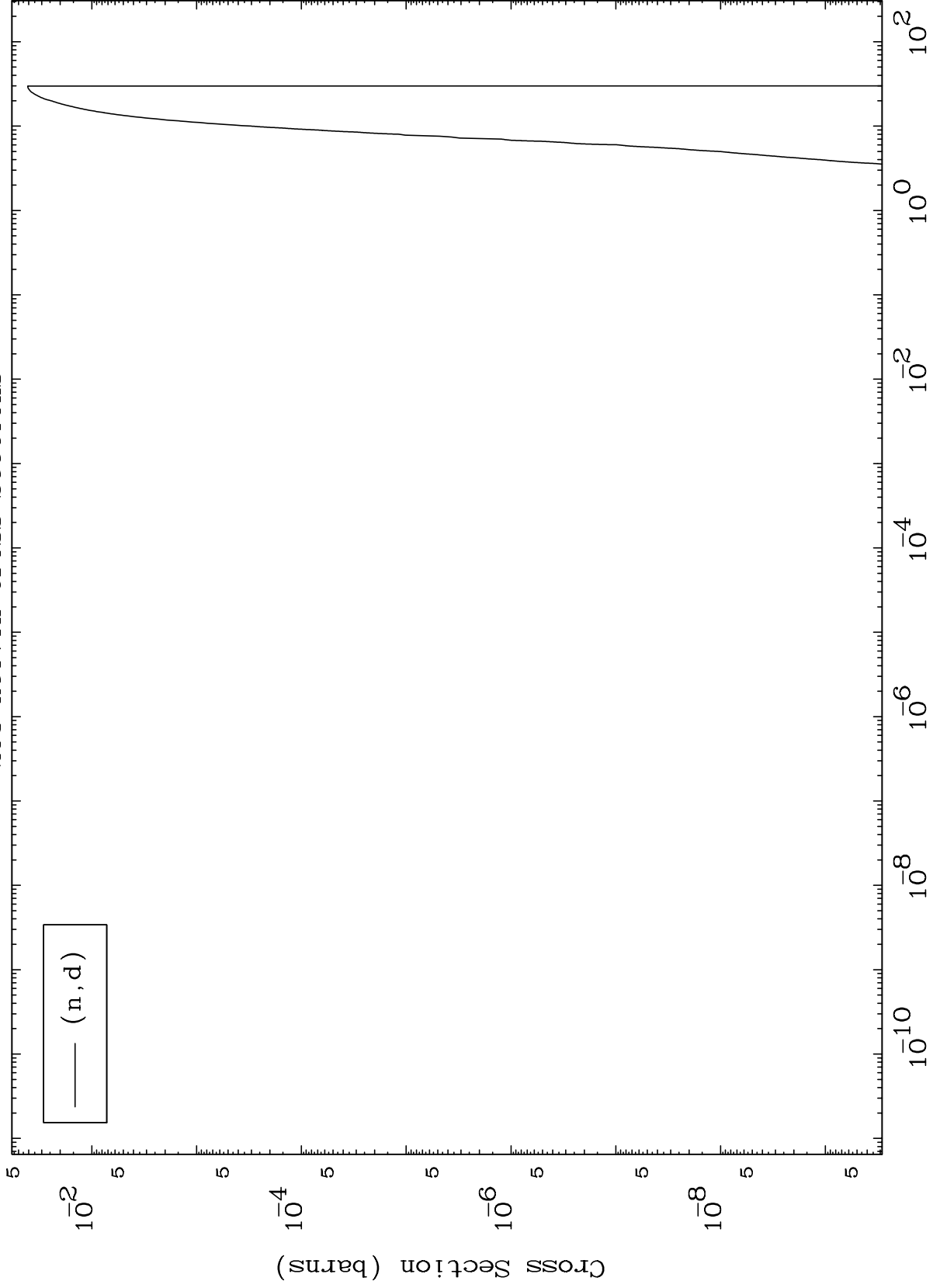
81-Tl-187m



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(n,d) Levels  
293 Kelvin Cross Sections

81-Tl-187m



12

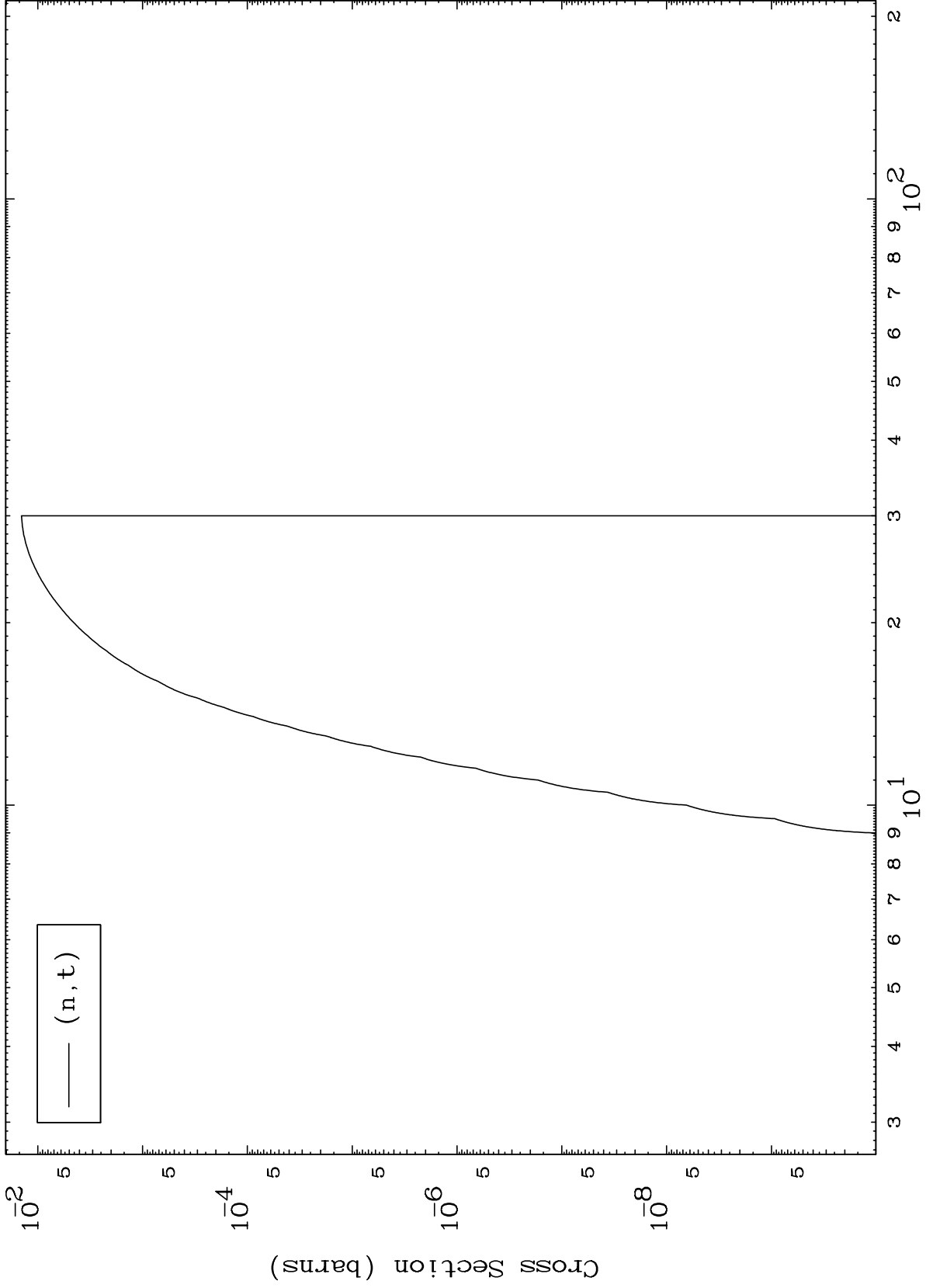
Incident Energy (MeV)

81-Tl-187m

MAT 8078

(n,t) Levels  
293 Kelvin Cross Sections

81-Tl-187m



13

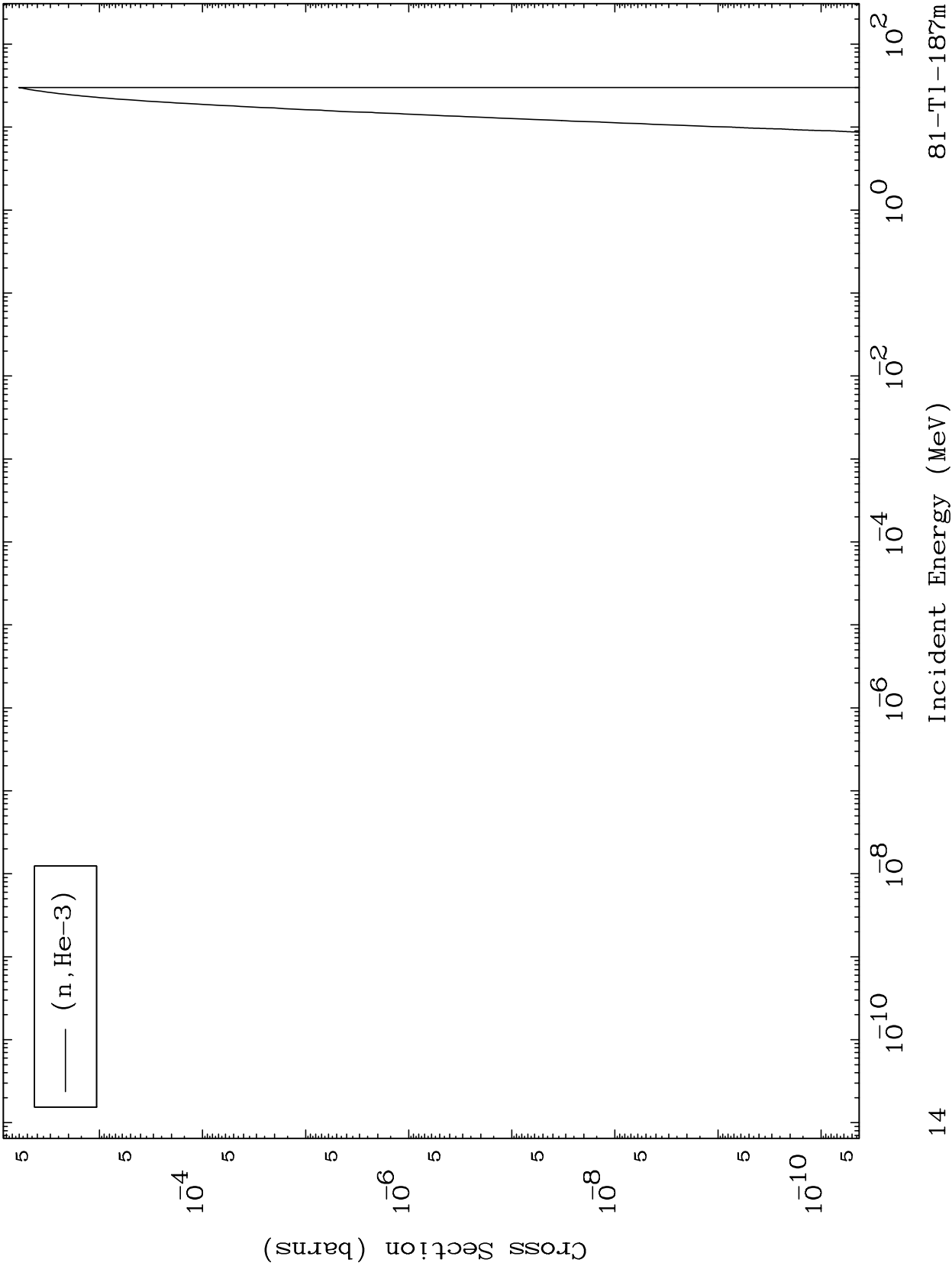
Incident Energy (MeV)

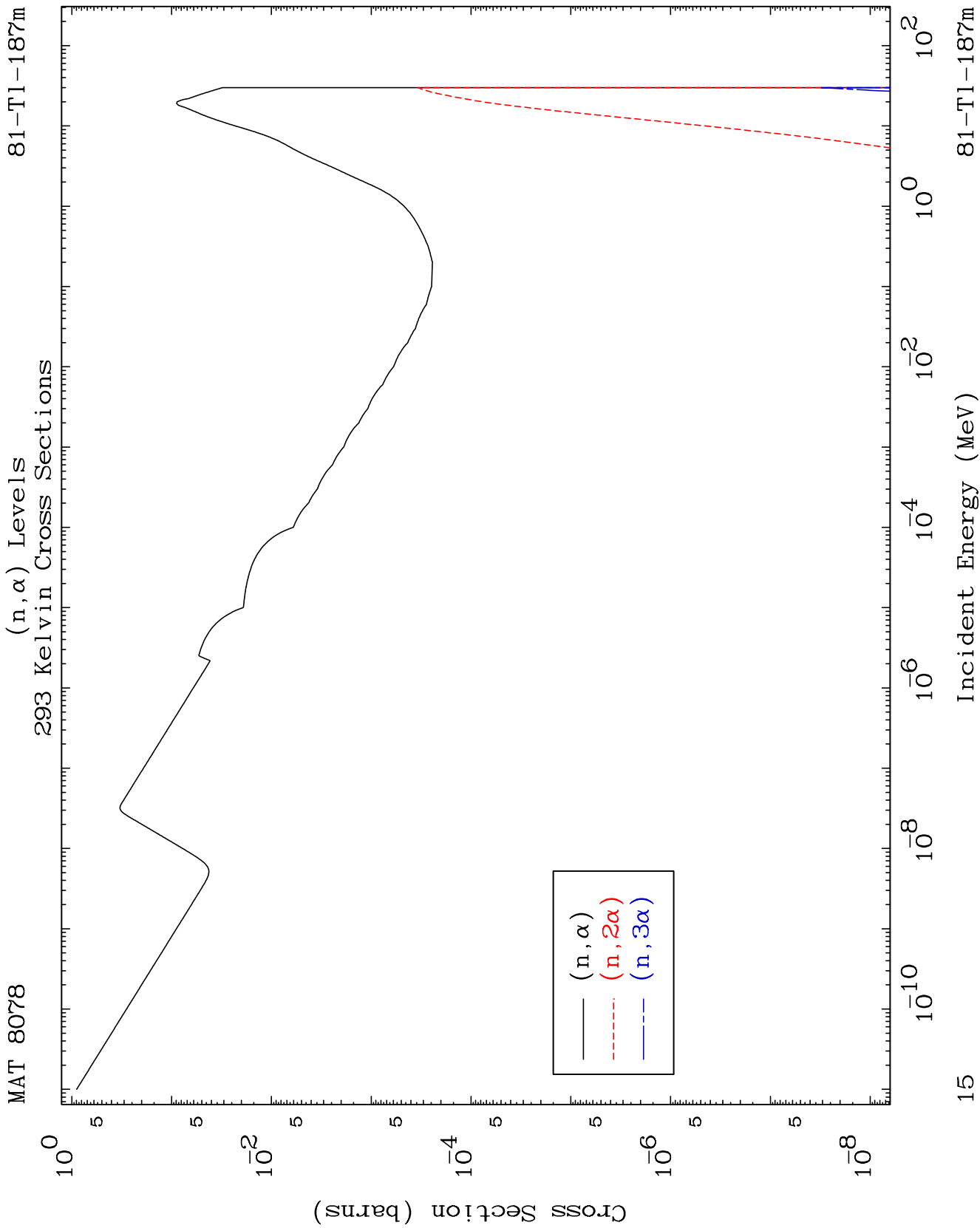
81-Tl-187m

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(n,He3) Levels  
293 Kelvin Cross Sections

81-Tl-187m





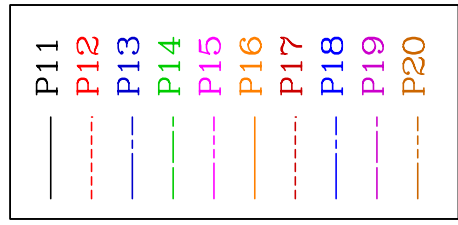




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Elastic  
Legendre Coefficients

81-Tl-187m



$\times 10^{-4}$

Legendre (CM)

3

2

1

0

5

10

15

20

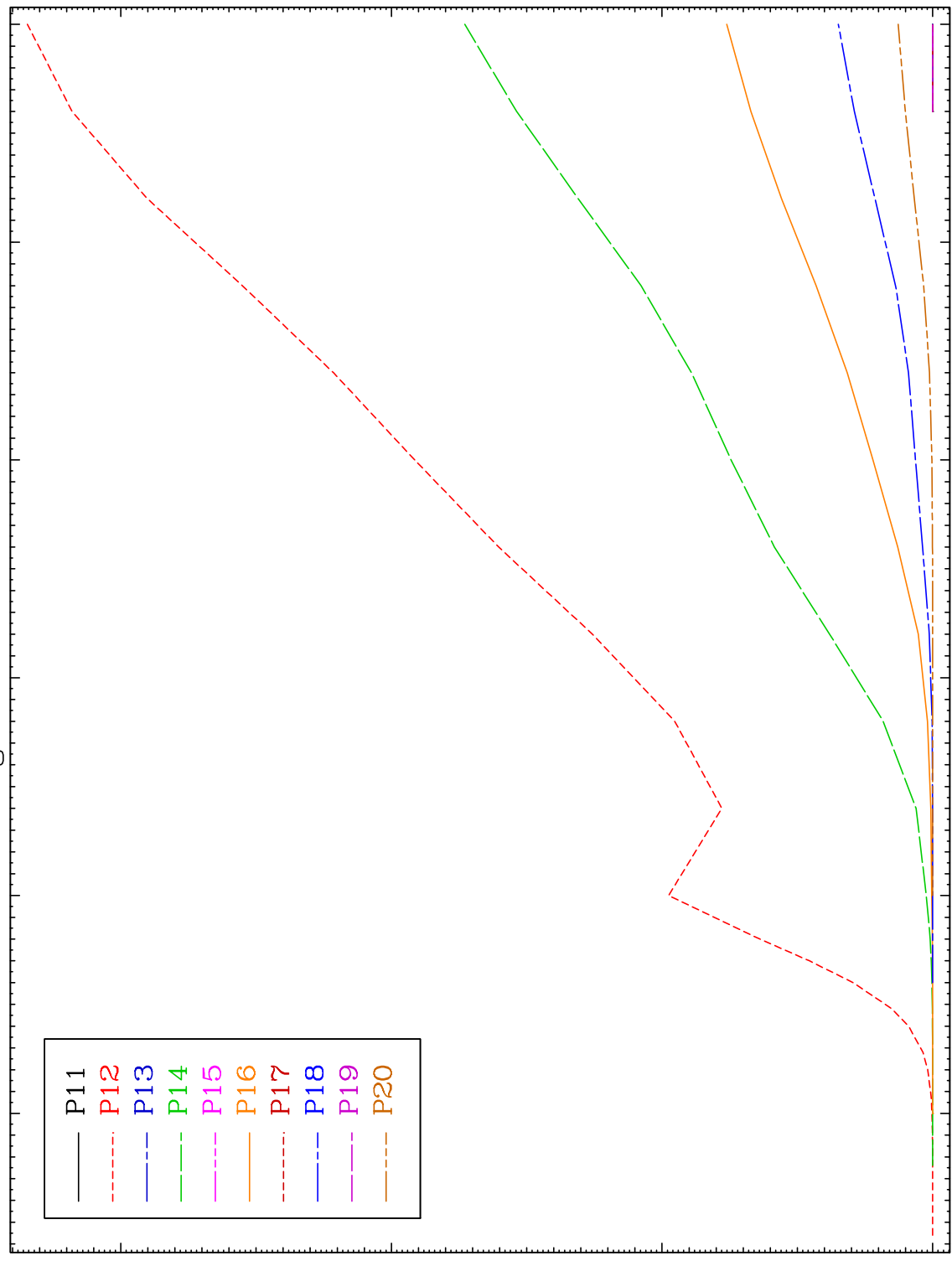
25

30

17

Incident Energy (MeV)

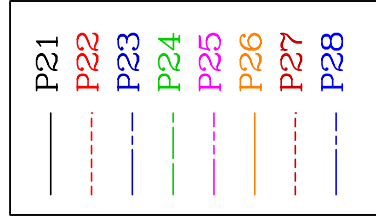
81-Tl-187m



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Elastic Legendre Coefficients

81-Tl-187m



$\times 10^{-6}$   
1.5

Legendre (CM)

1.0

0.5

0.0

15

20

25

30

18

Incident Energy (MeV)

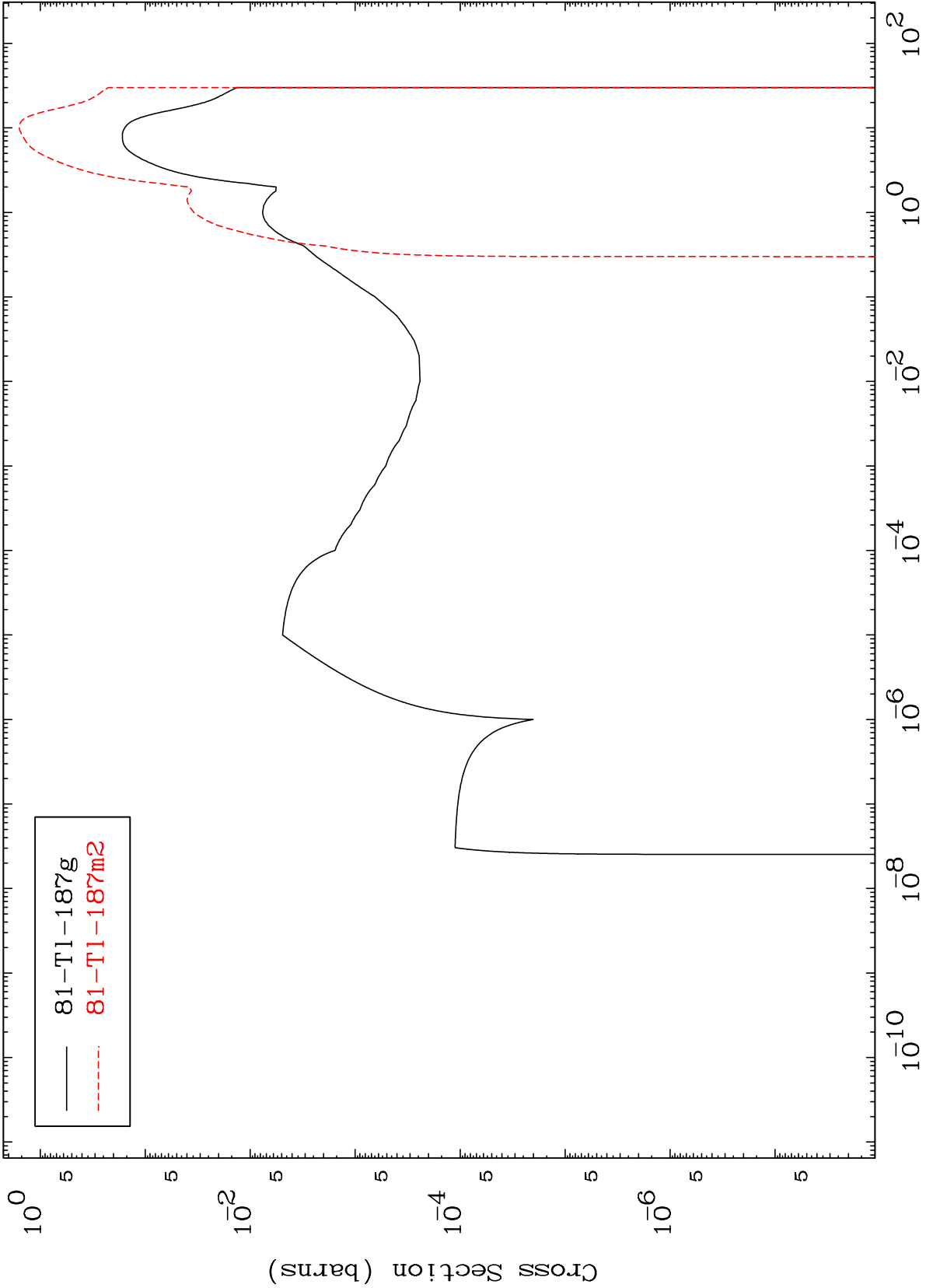
81-Tl-187m



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Inelastic  
Radionuclide Production Cross Section

81-Tl-187m



81-Tl-187m

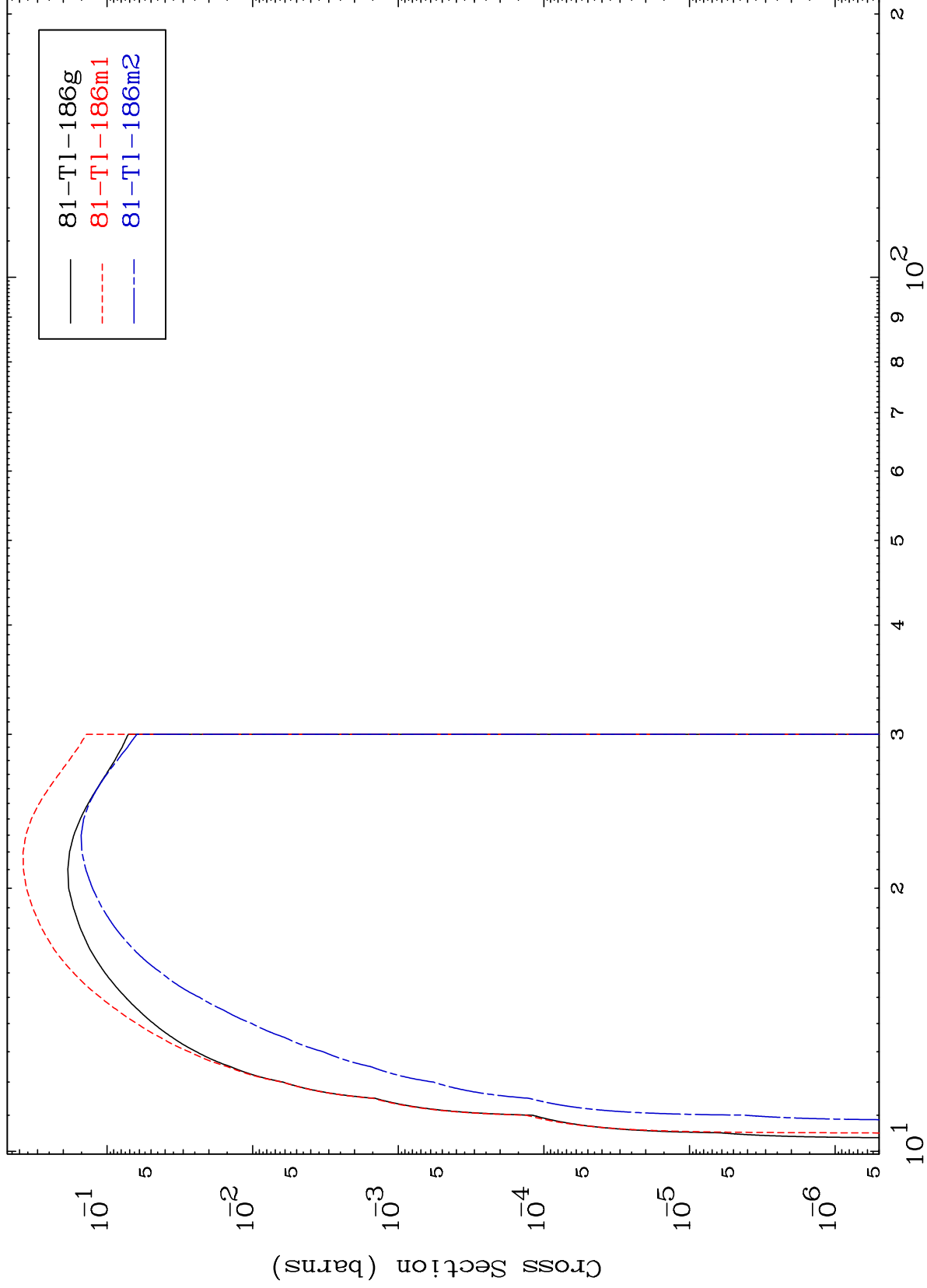
Incident Energy (MeV)

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(n,2n)

81-Tl-187m

Radionuclide Production Cross Section



Incident Energy (MeV)

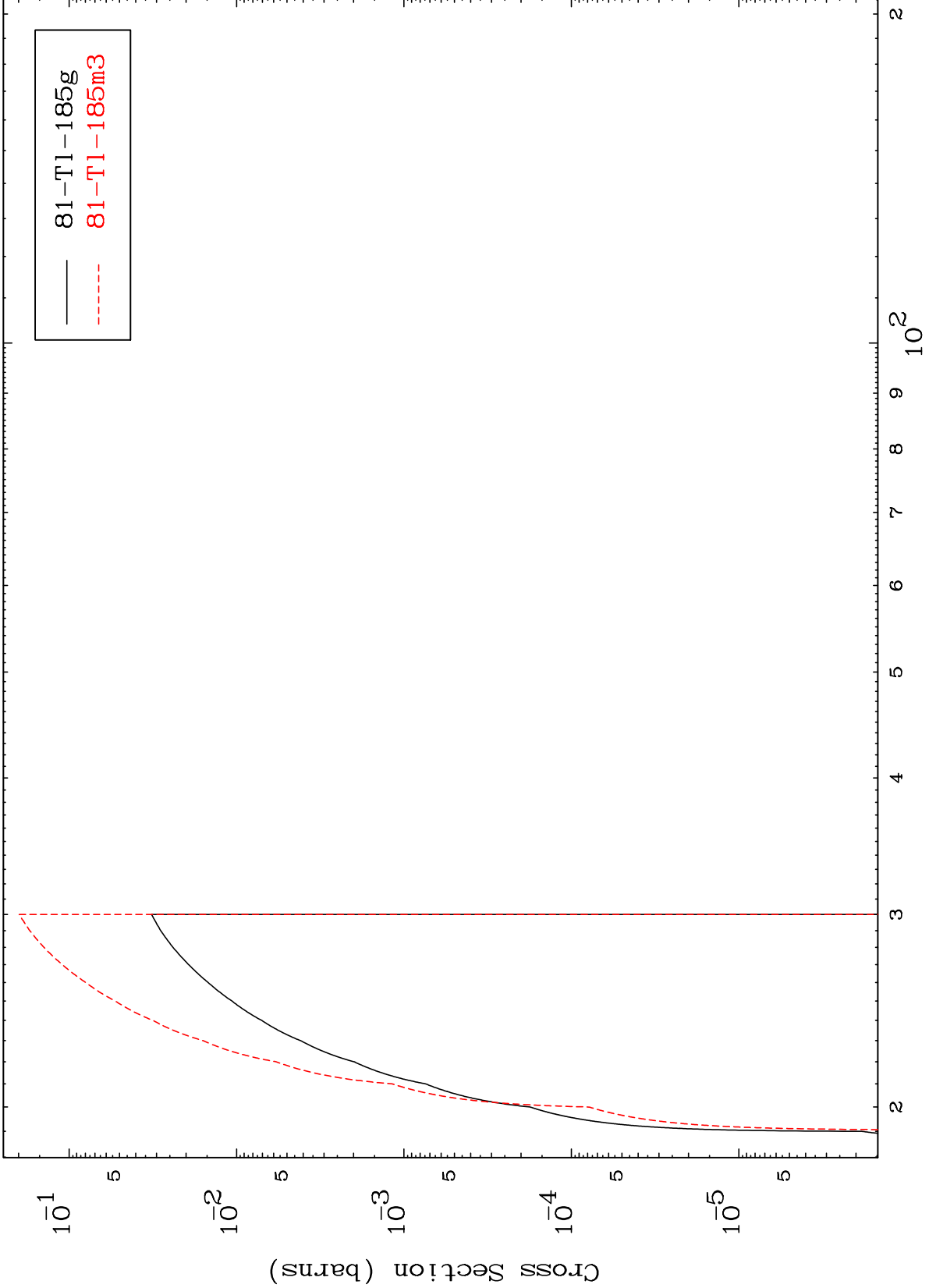
81-Tl-187m

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(n,3n)

81-Tl-187m

Radionuclide Production Cross Section



81-Tl-185g  
81-Tl-185m3

21

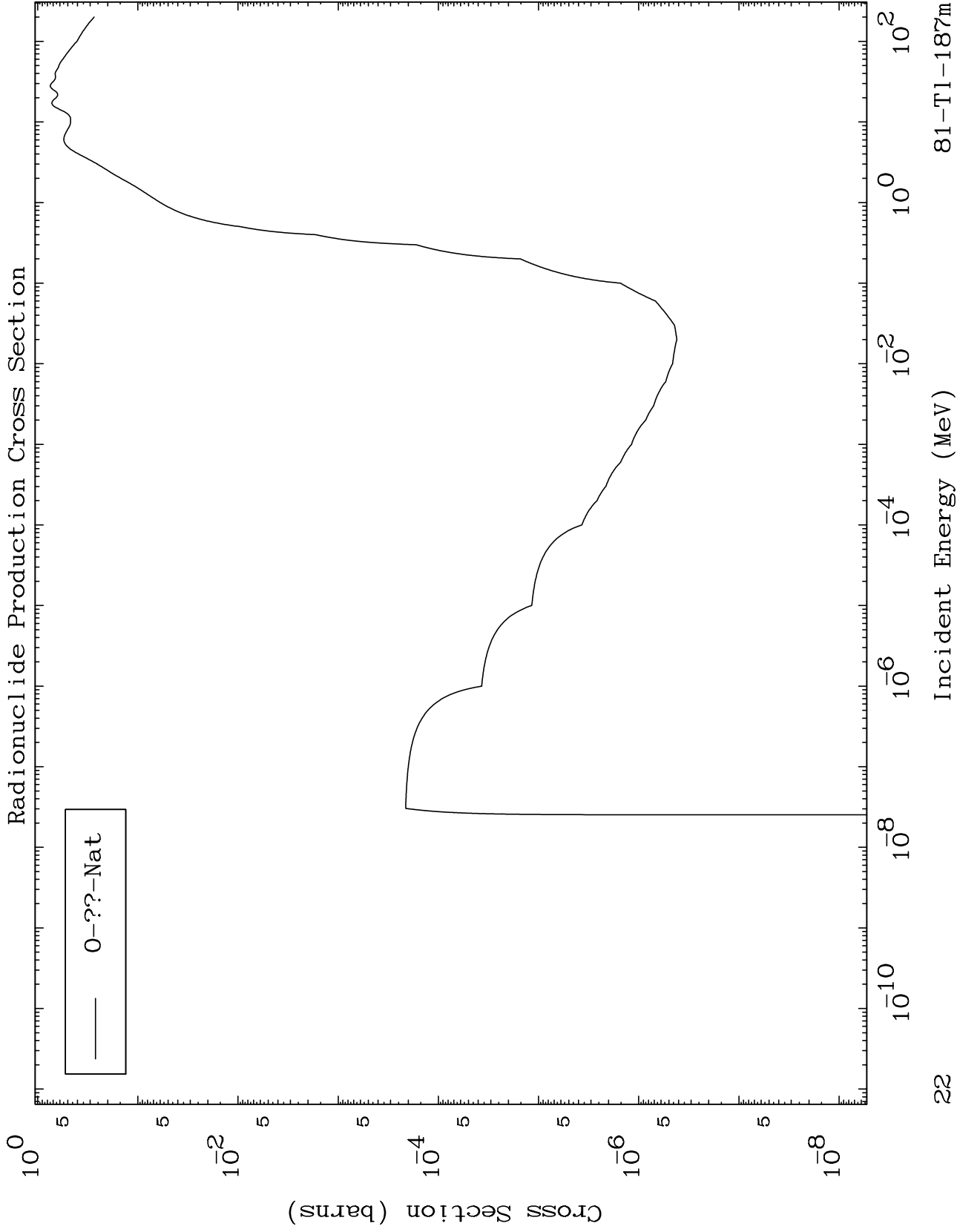
Incident Energy (MeV)

81-Tl-187m

MAT 8078

Fission

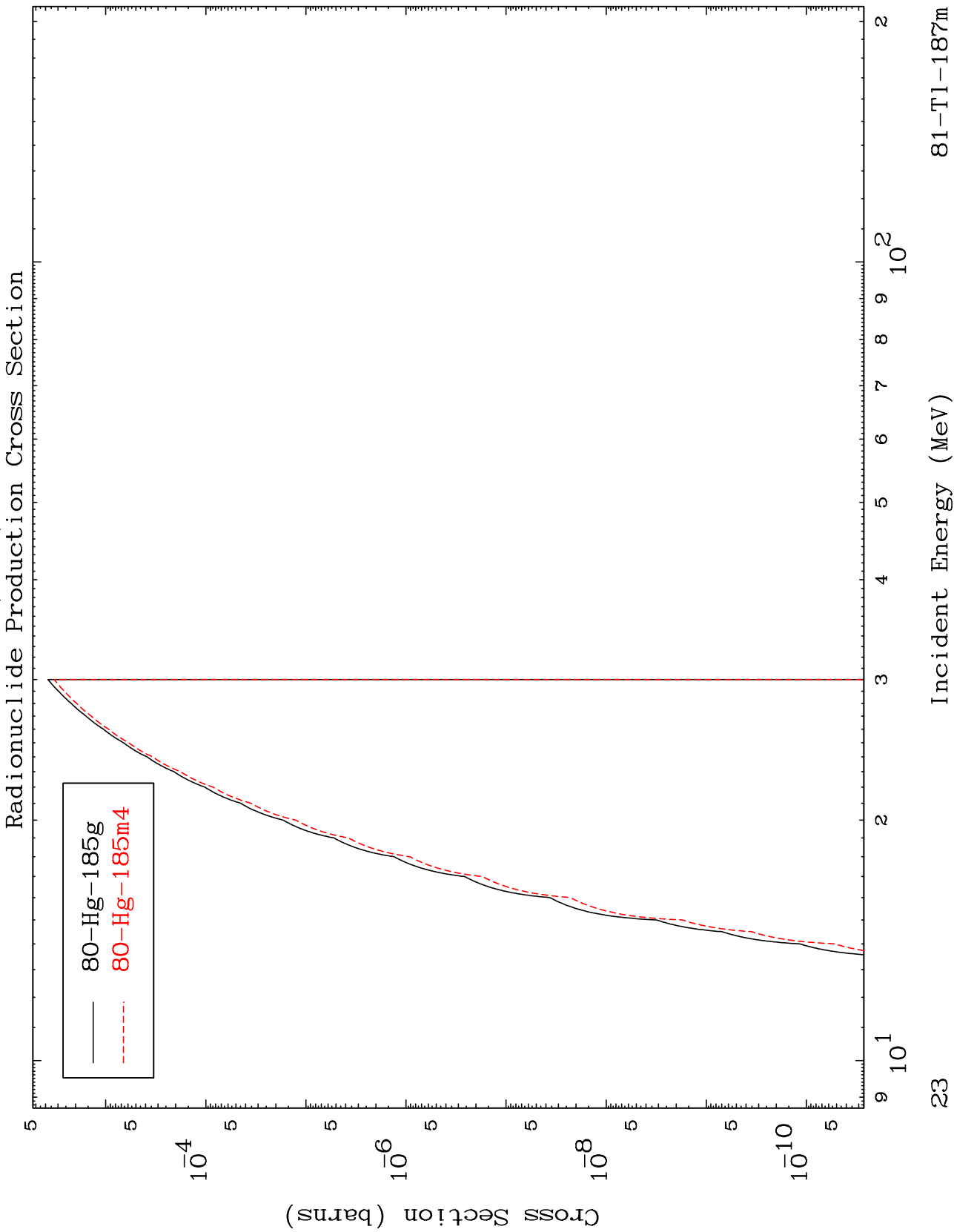
81-Tl-187m



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(n,n') d

81-Tl-187m



23

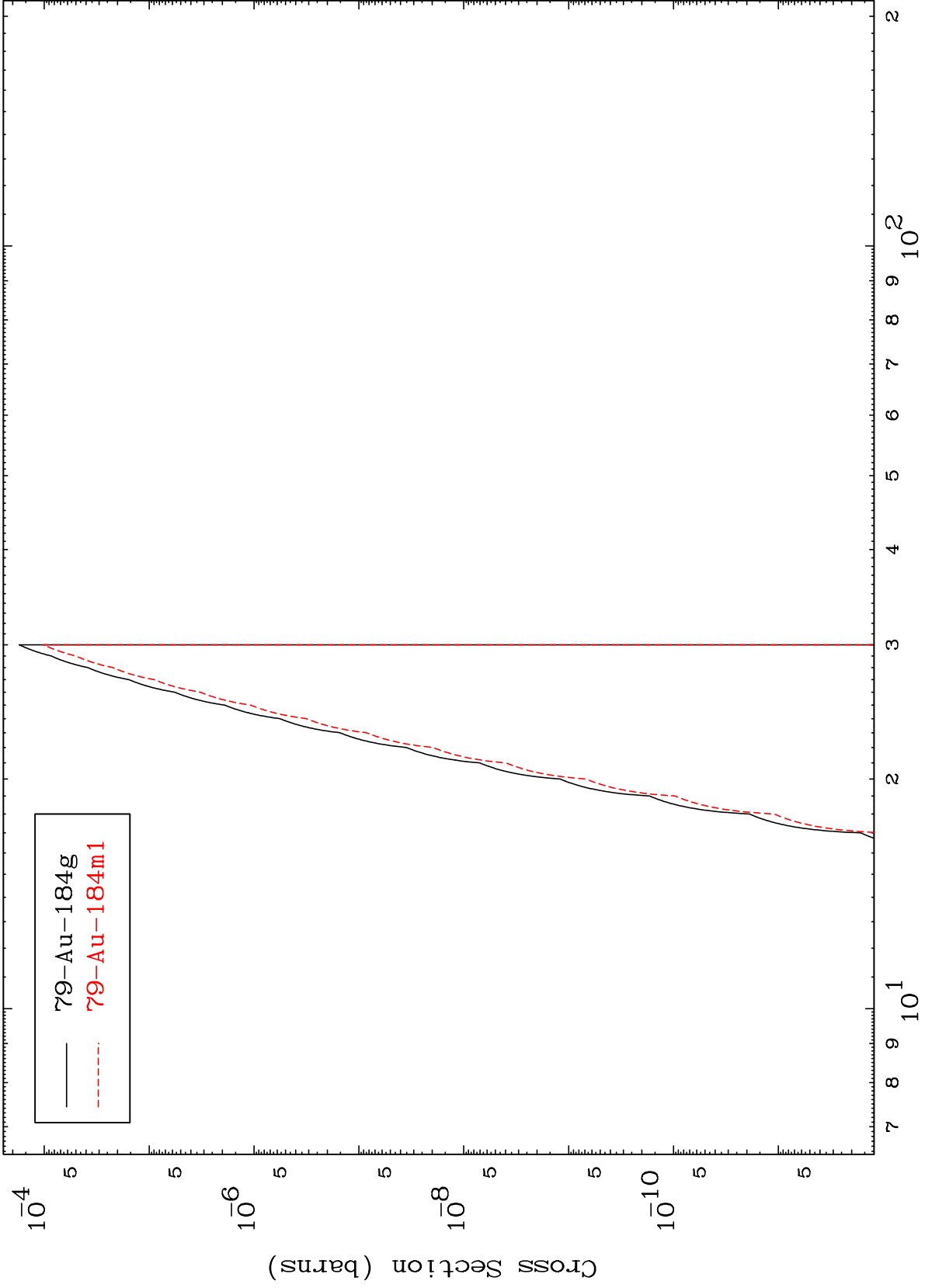


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(n,n') He-3

81-Tl-187m

Radionuclide Production Cross Section



24

Incident Energy (MeV)

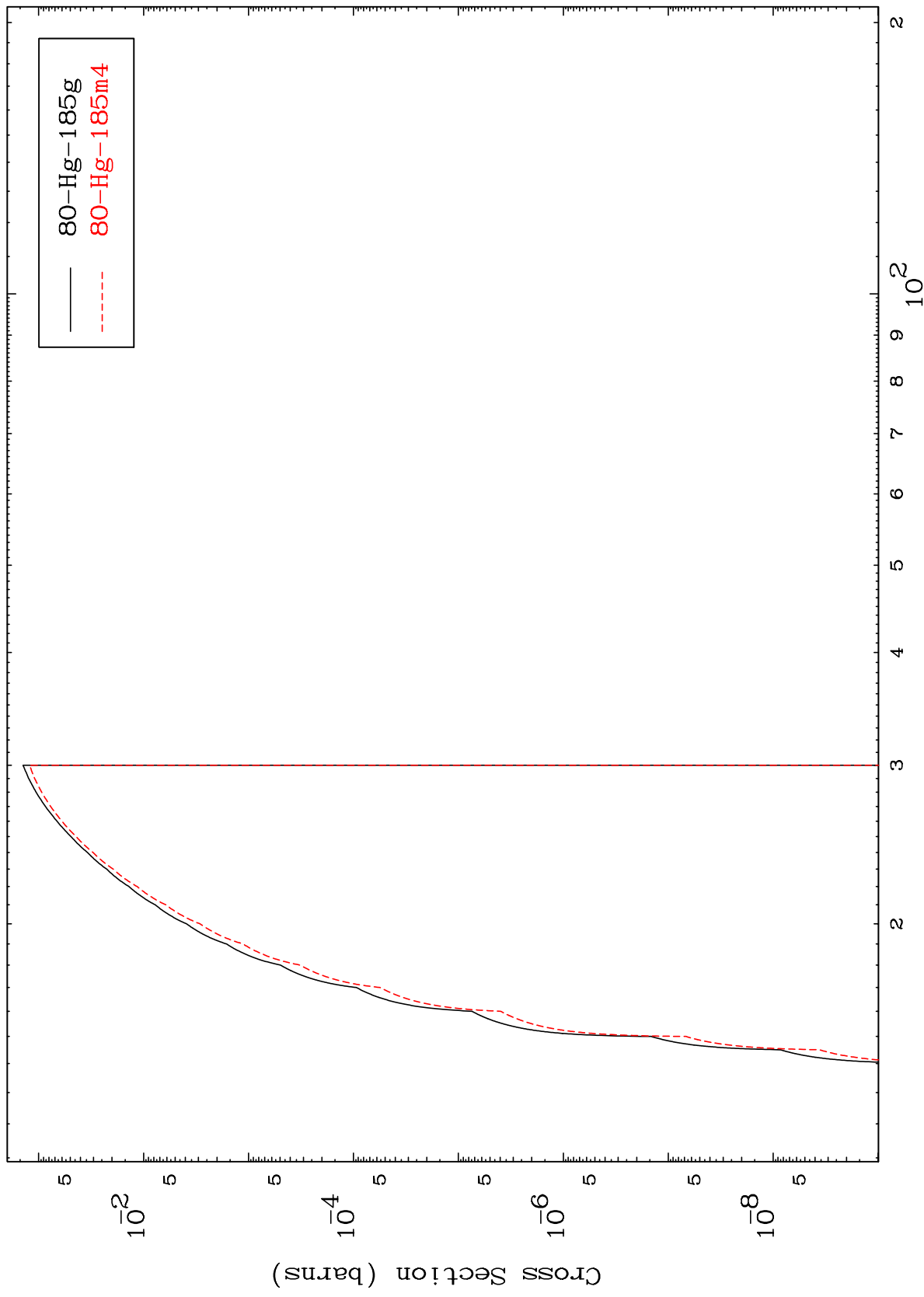
81-Tl-187m

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81-Tl-187m

(n,2n) p

Radionuclide Production Cross Section



25

Incident Energy (MeV)

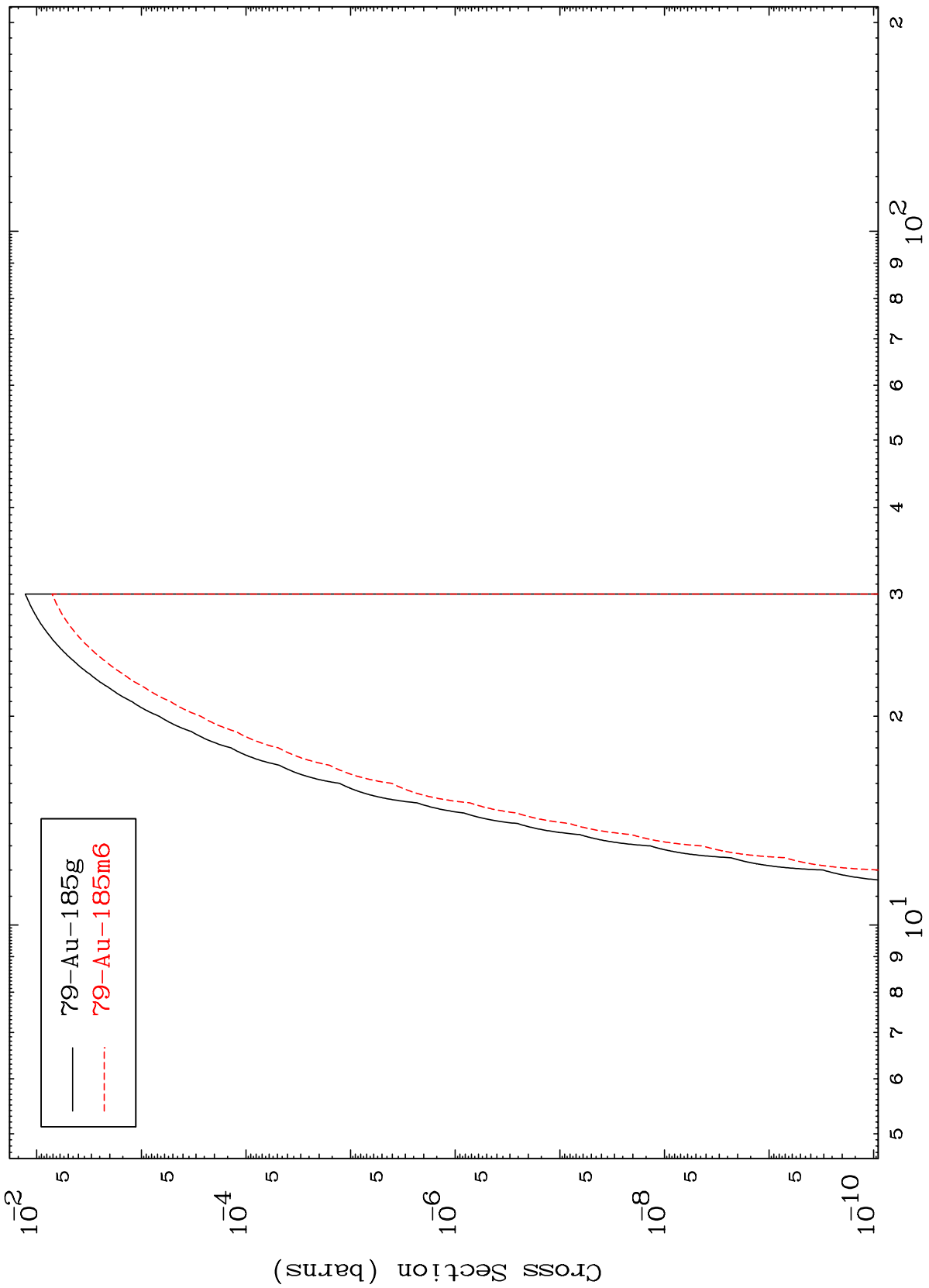
81-Tl-187m

MAT 8078

(n,2n) p

81-Tl-187m

Radionuclide Production Cross Section



79-Au-185g  
79-Au-185m6

26

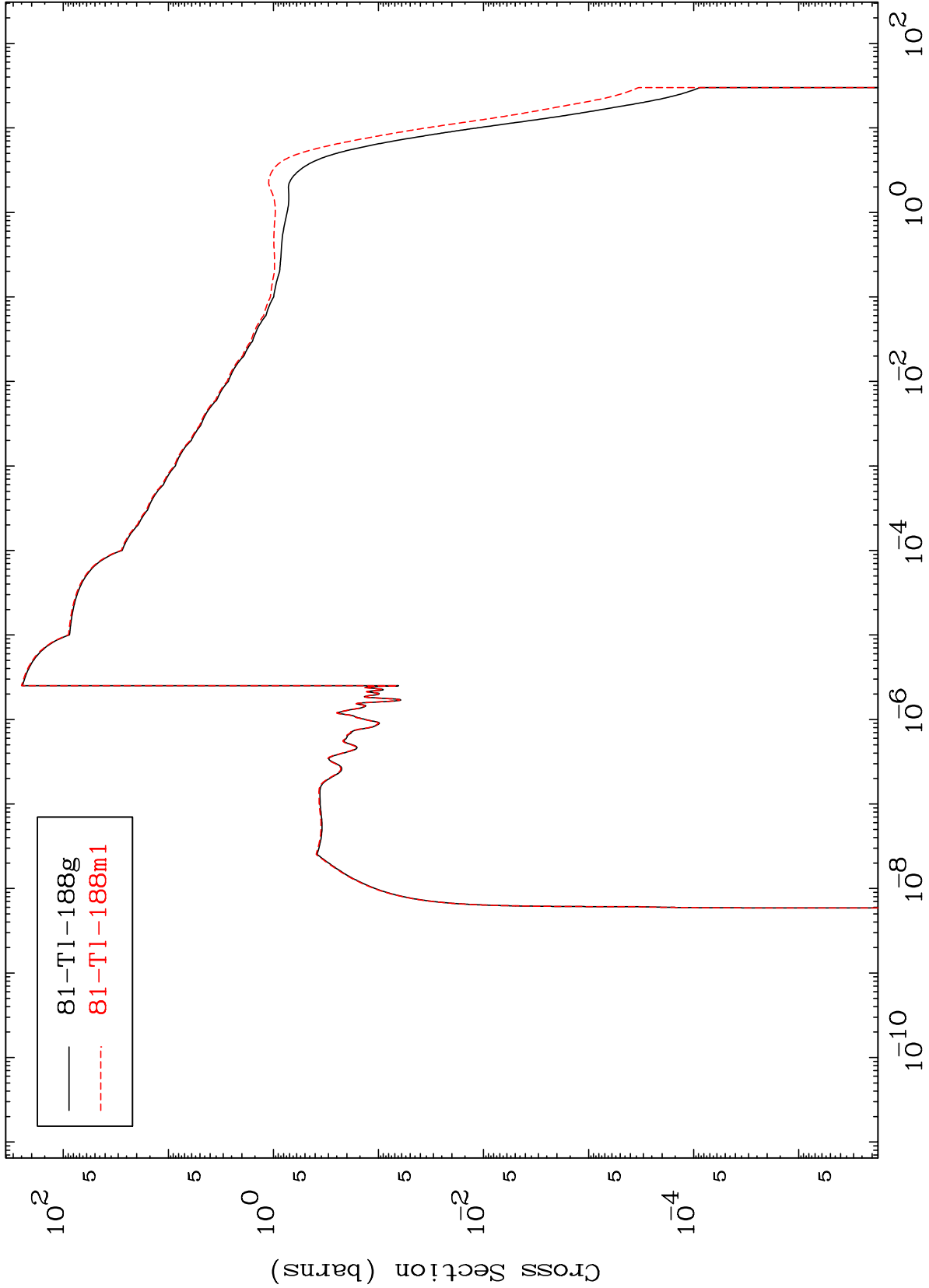
Incident Energy (MeV)

81-Tl-187m

MAT 8078

81-Tl-187m

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



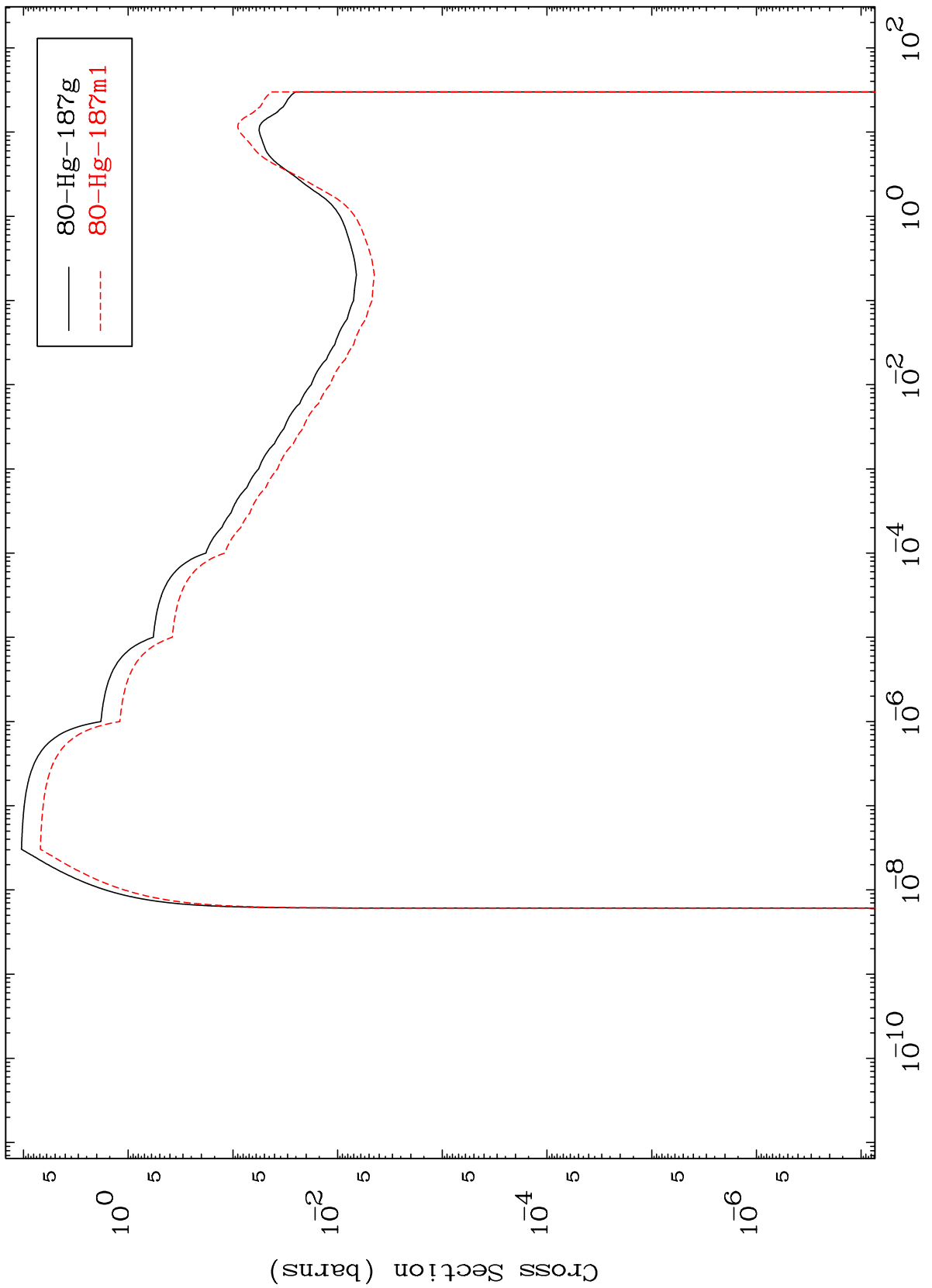
81-Tl-187m

Incident Energy (MeV)

MAT 8078

81-Tl-187m

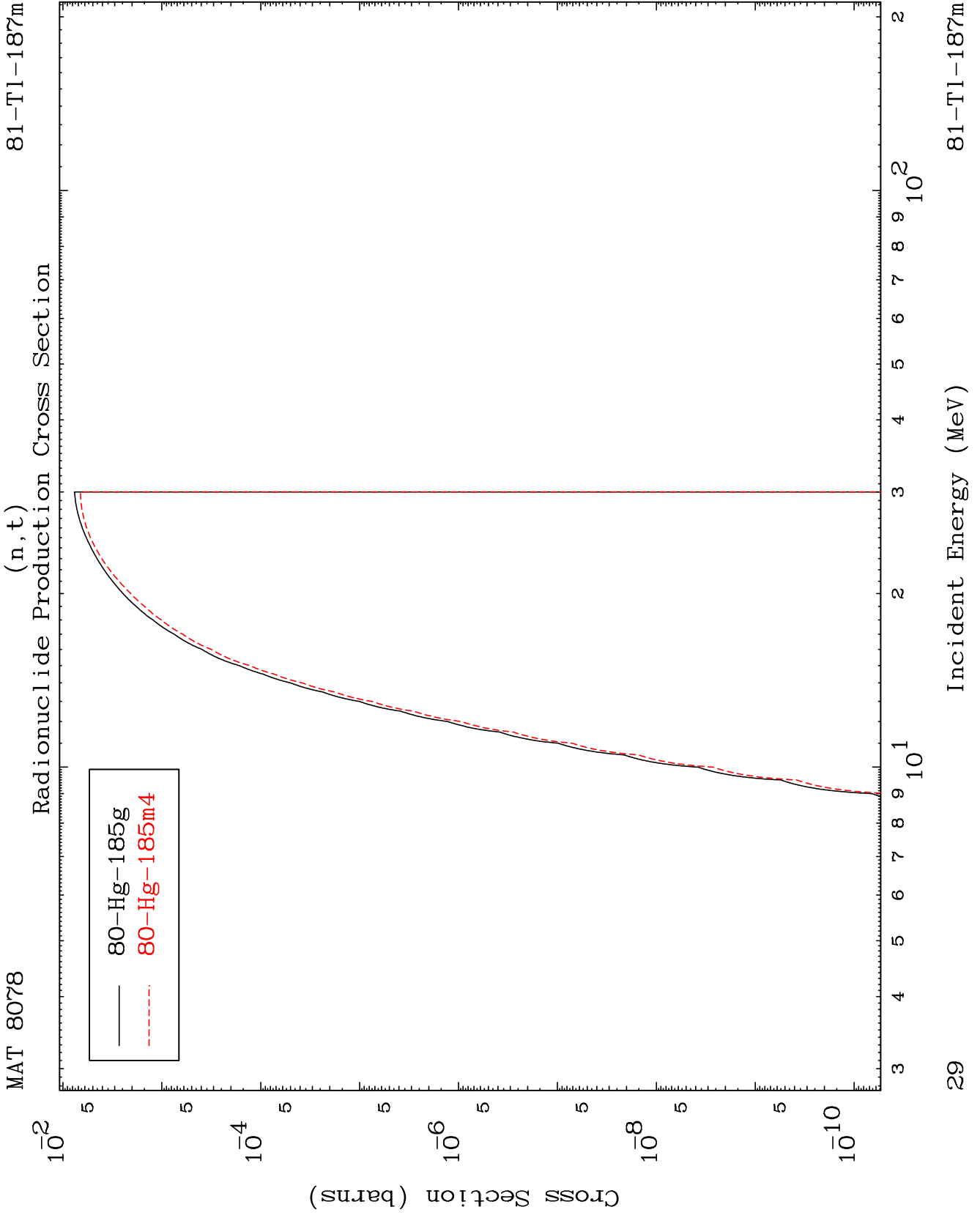
(n,p)  
Radionuclide Production Cross Section



28

81-Tl-187m

Incident Energy (MeV)

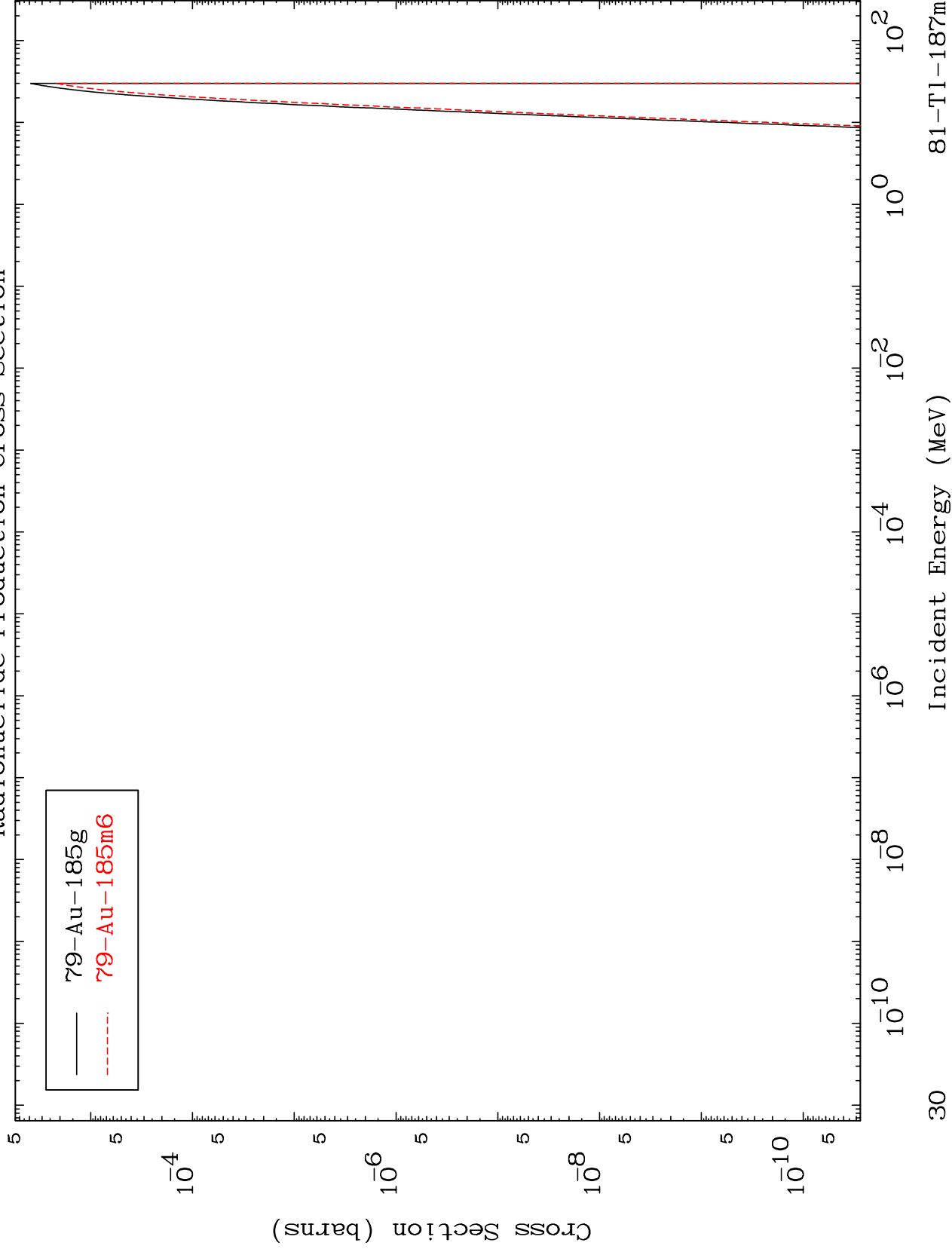


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(n,He-3)

81-Tl-187m

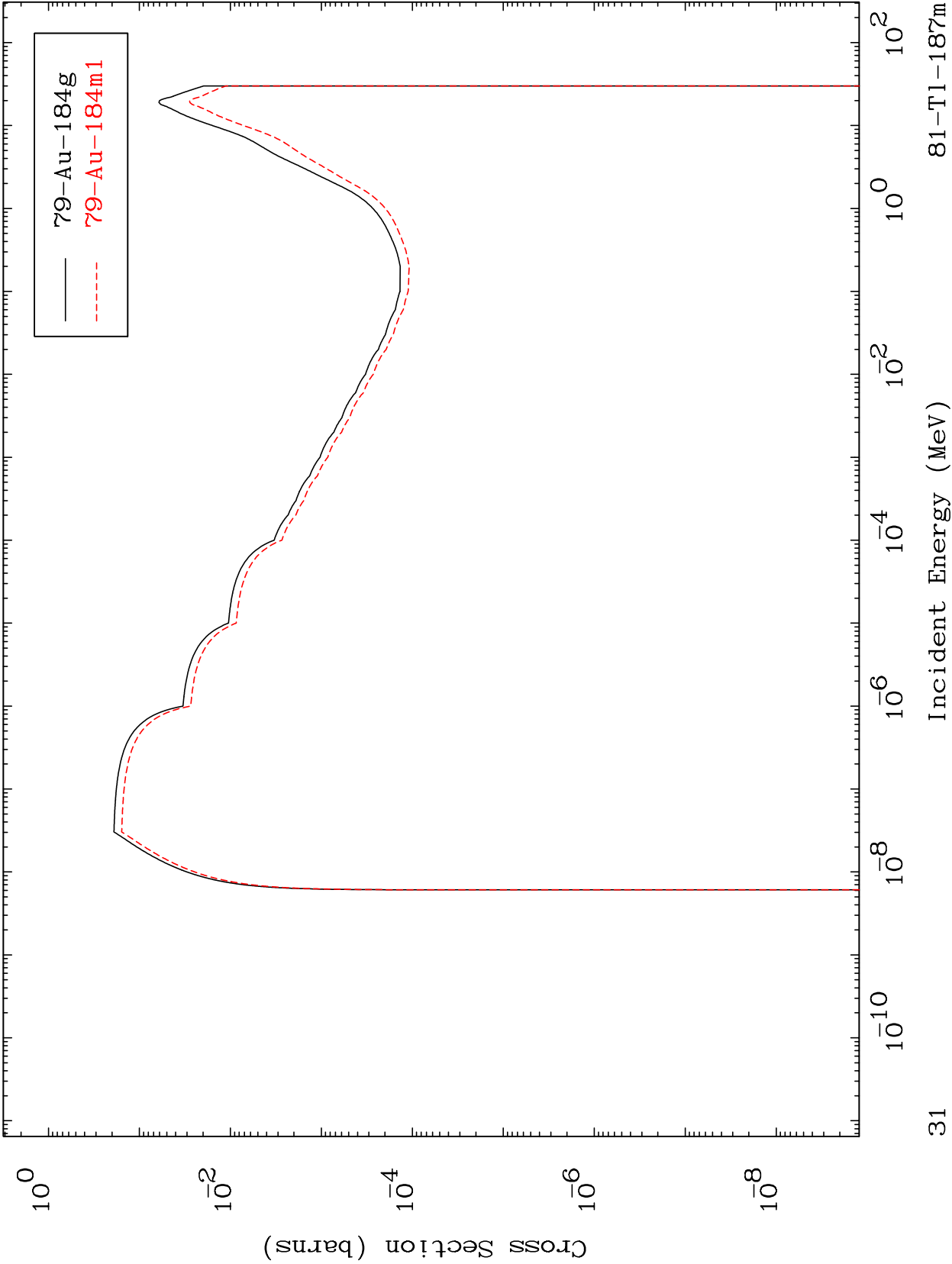
Radionuclide Production Cross Section



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81-Tl-187m

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



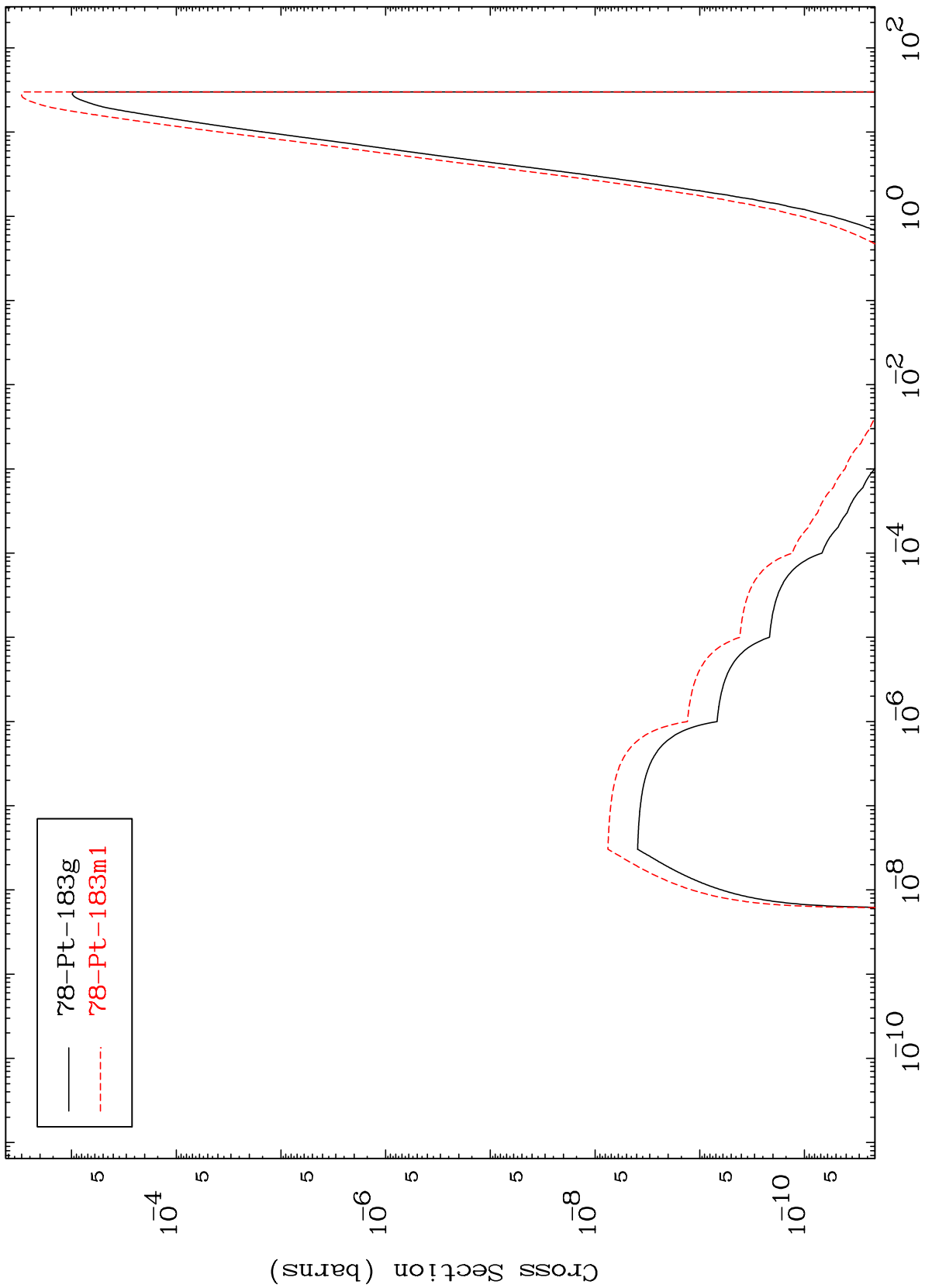
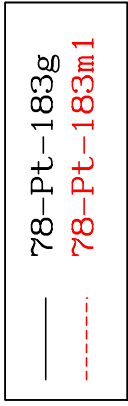


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(n,p)  $\alpha$

81-Tl-187m

Radionuclide Production Cross Section

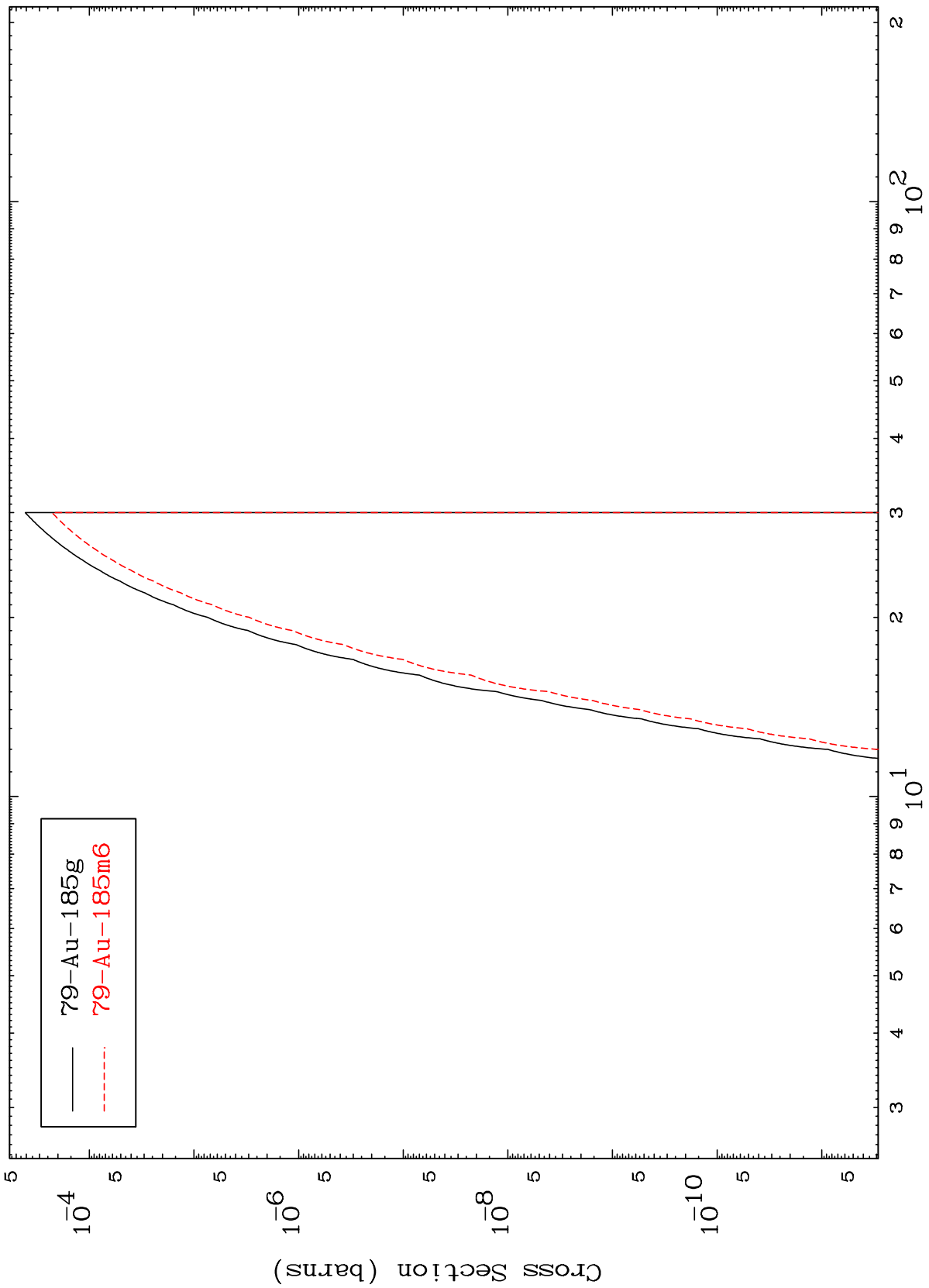


MAT 8078

(n,p) d

81-Tl-187m

Radionuclide Production Cross Section



Incident Energy (MeV)

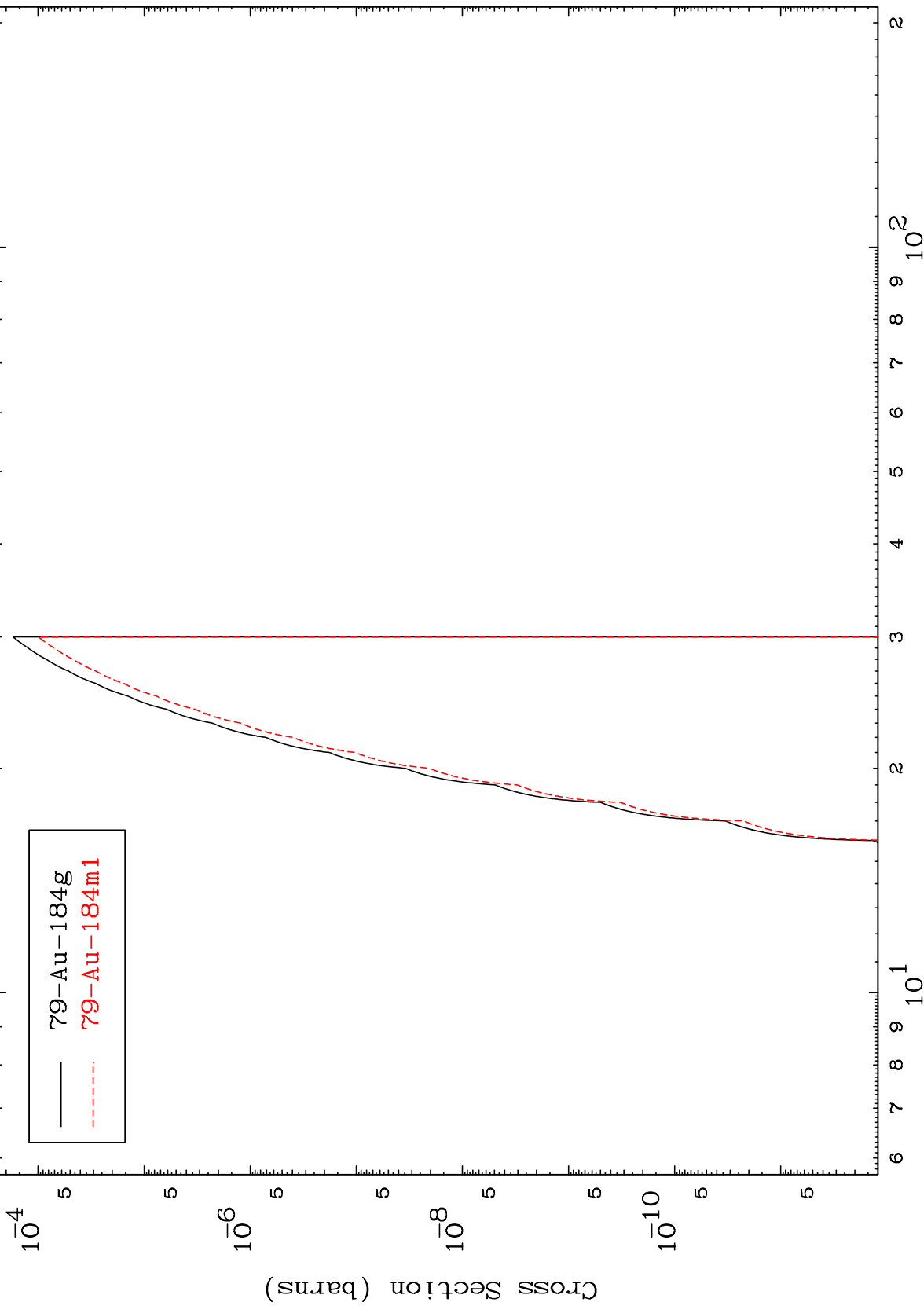
81-Tl-187m

MAT 8078

(n,p) t

81-Tl-187m

Radionuclide Production Cross Section



—  $^{79}\text{Au-184g}$   
- - -  $^{79}\text{Au-184m1}$

34

Incident Energy (MeV)

81-Tl-187m