

Program EVALPLOT  
(Version 2021-1)

by

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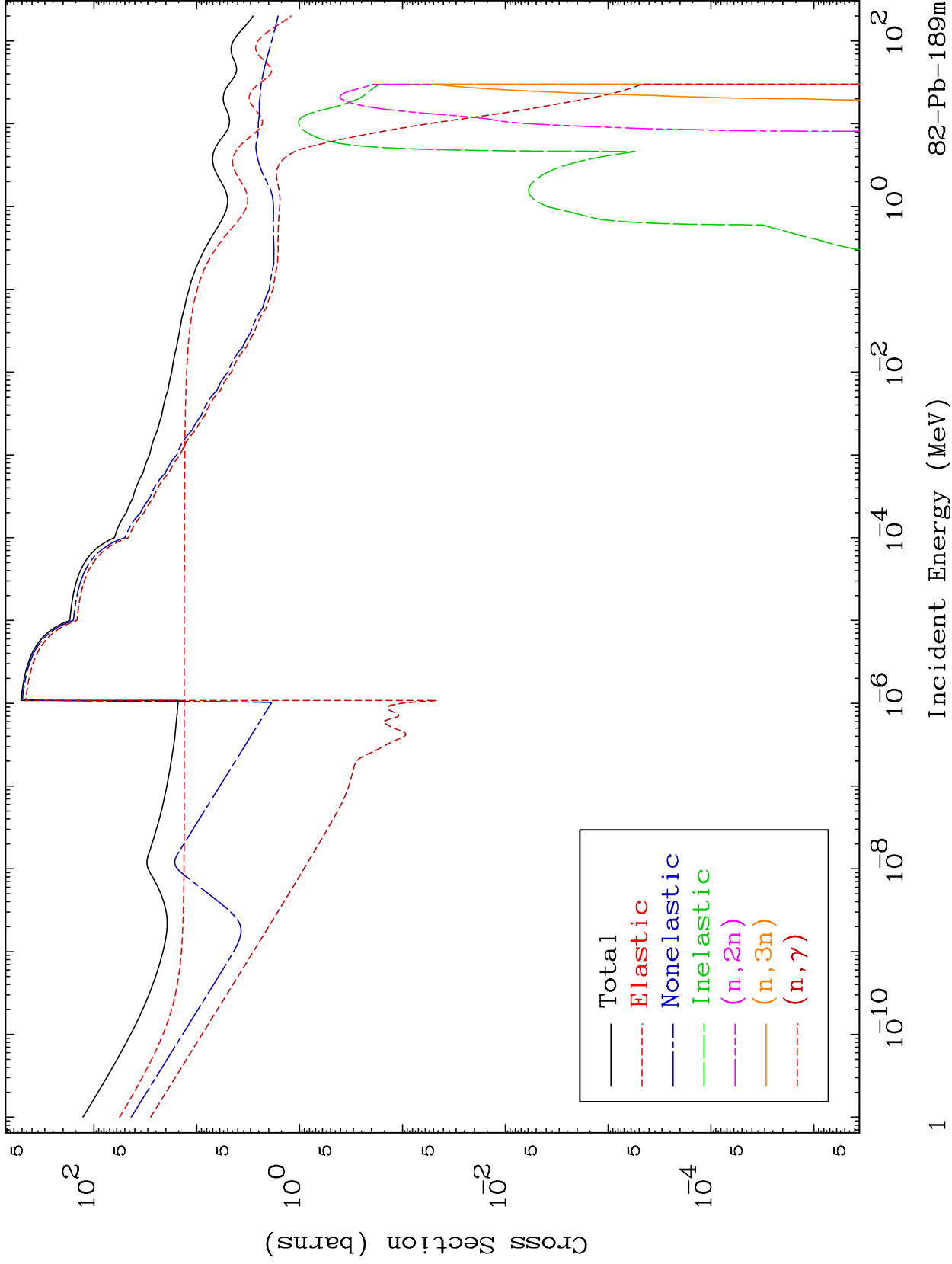
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 8181

Neutron Major  
293 Kelvin Cross Sections

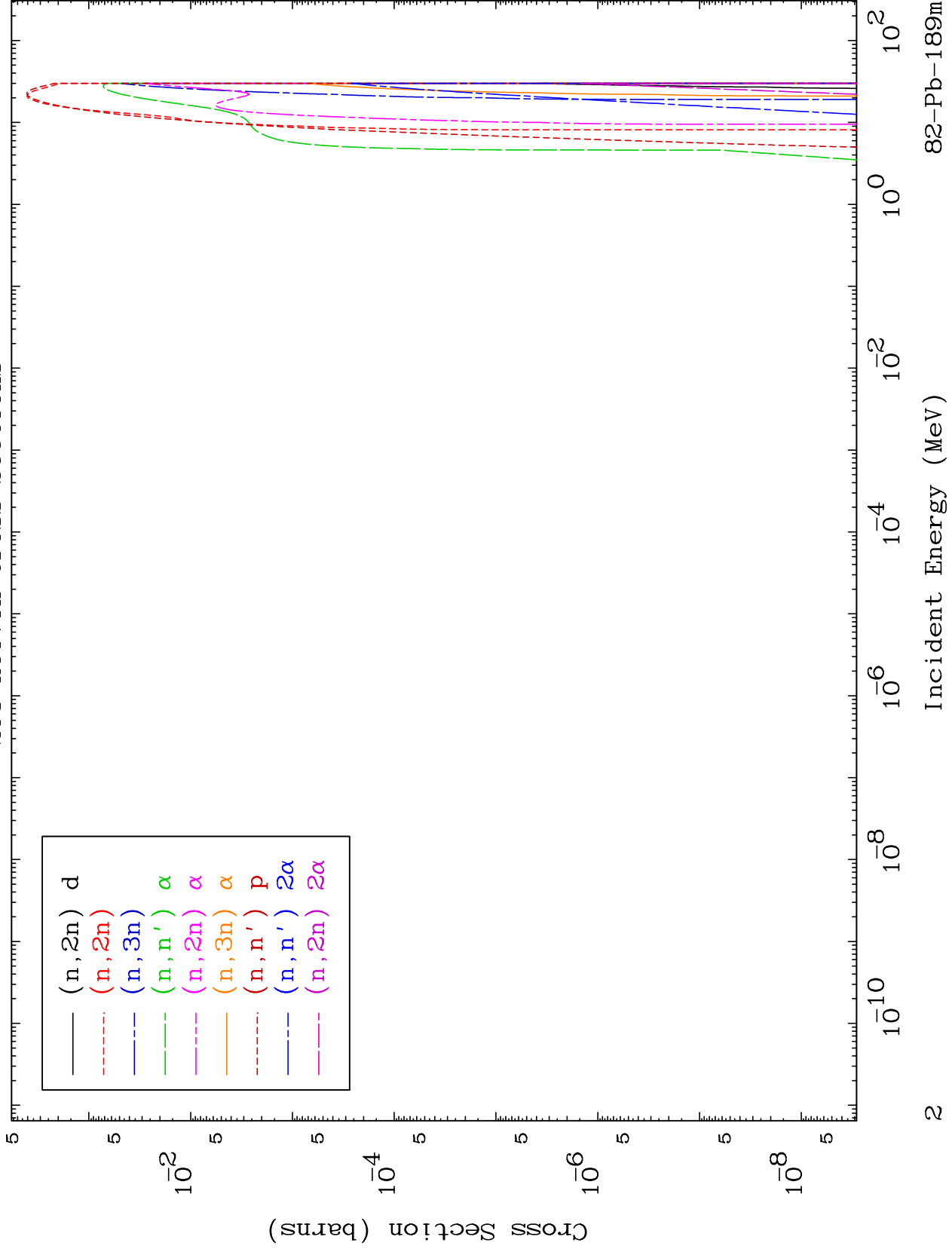
82-Pb-189m



MAT 8181

Neutron Absorption  
293 Kelvin Cross Sections

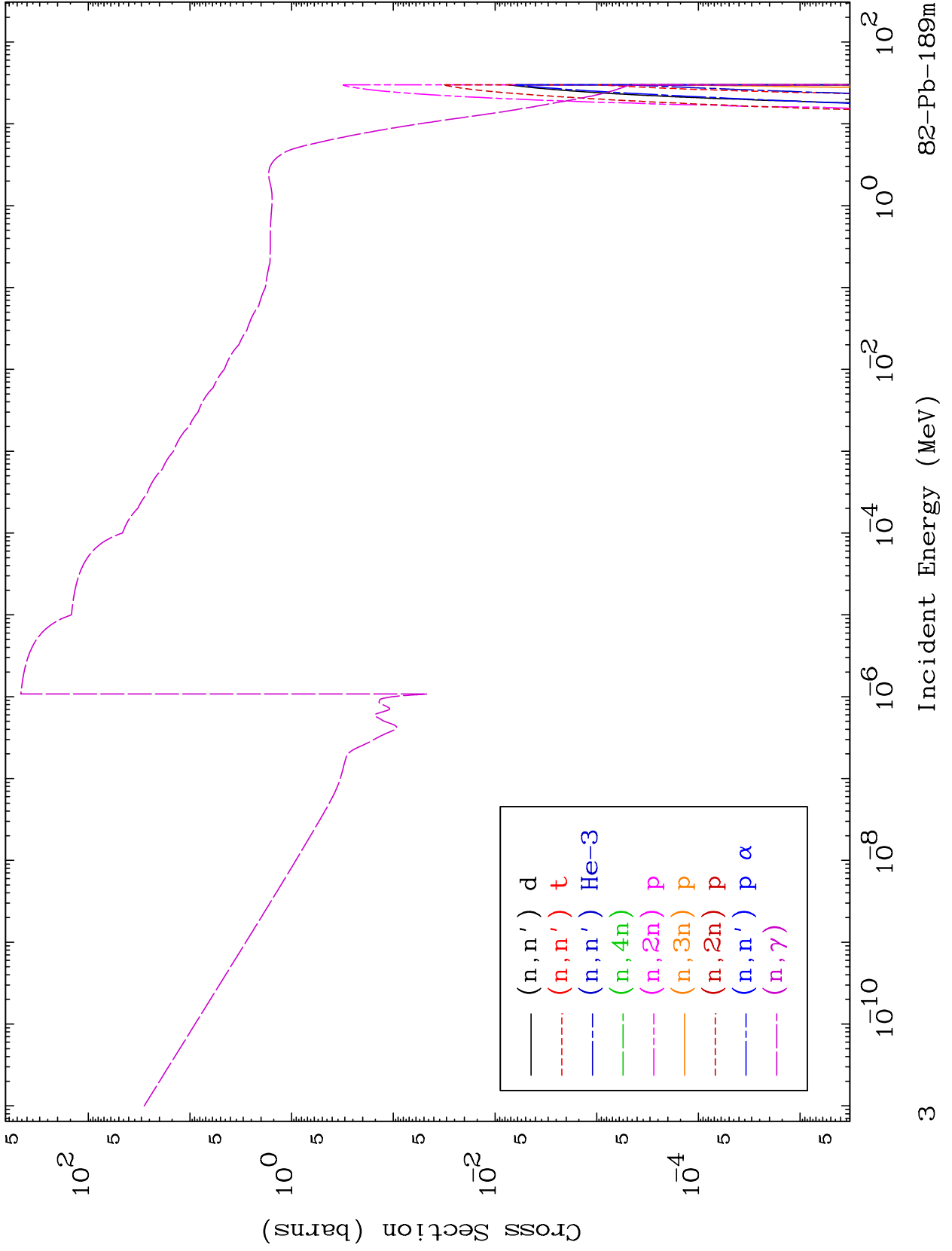
82-Pb-189m



MAT 8181

82-Pb-189m

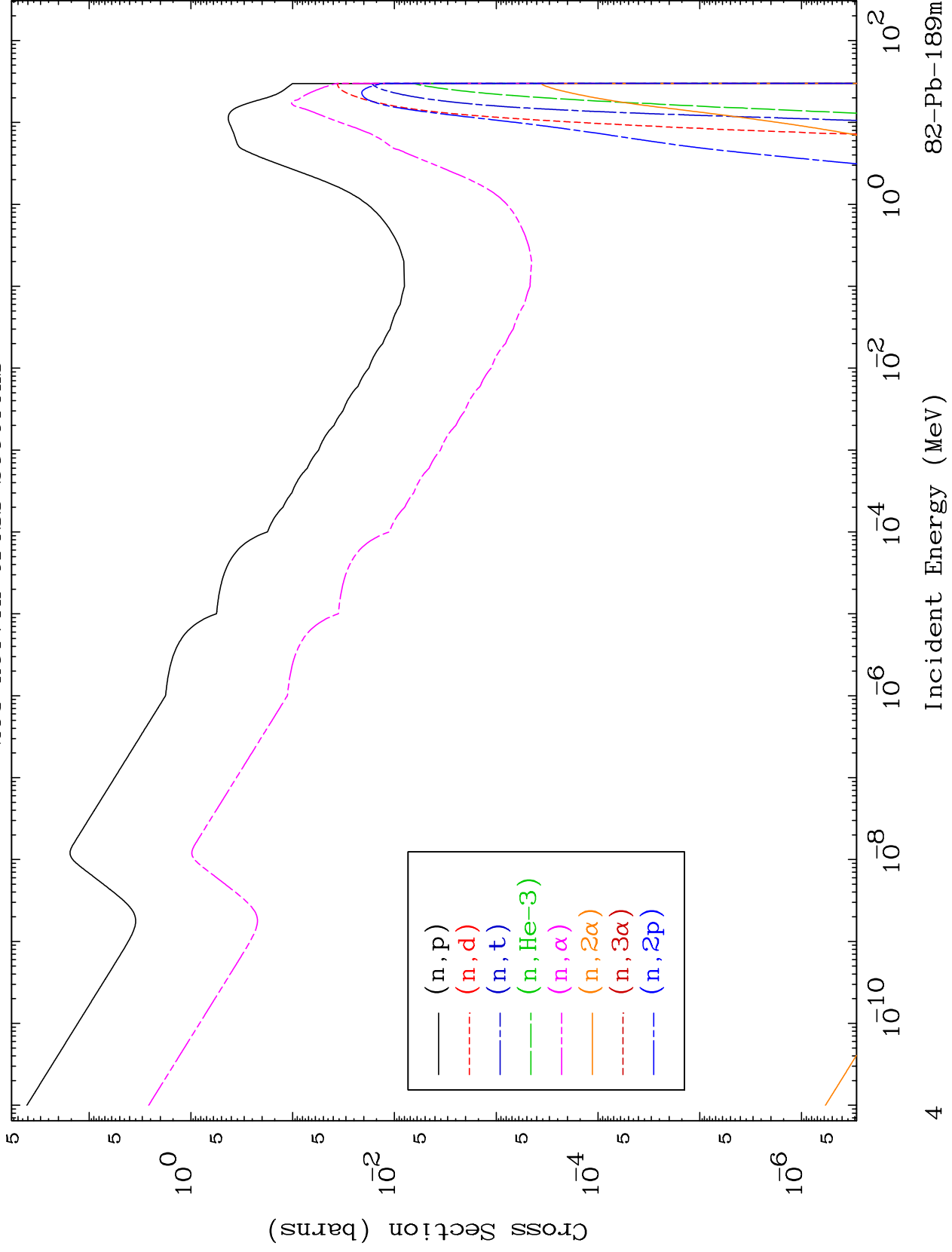
Neutron Absorption  
293 Kelvin Cross Sections



MAT 8181

Neutron Absorption  
293 Kelvin Cross Sections

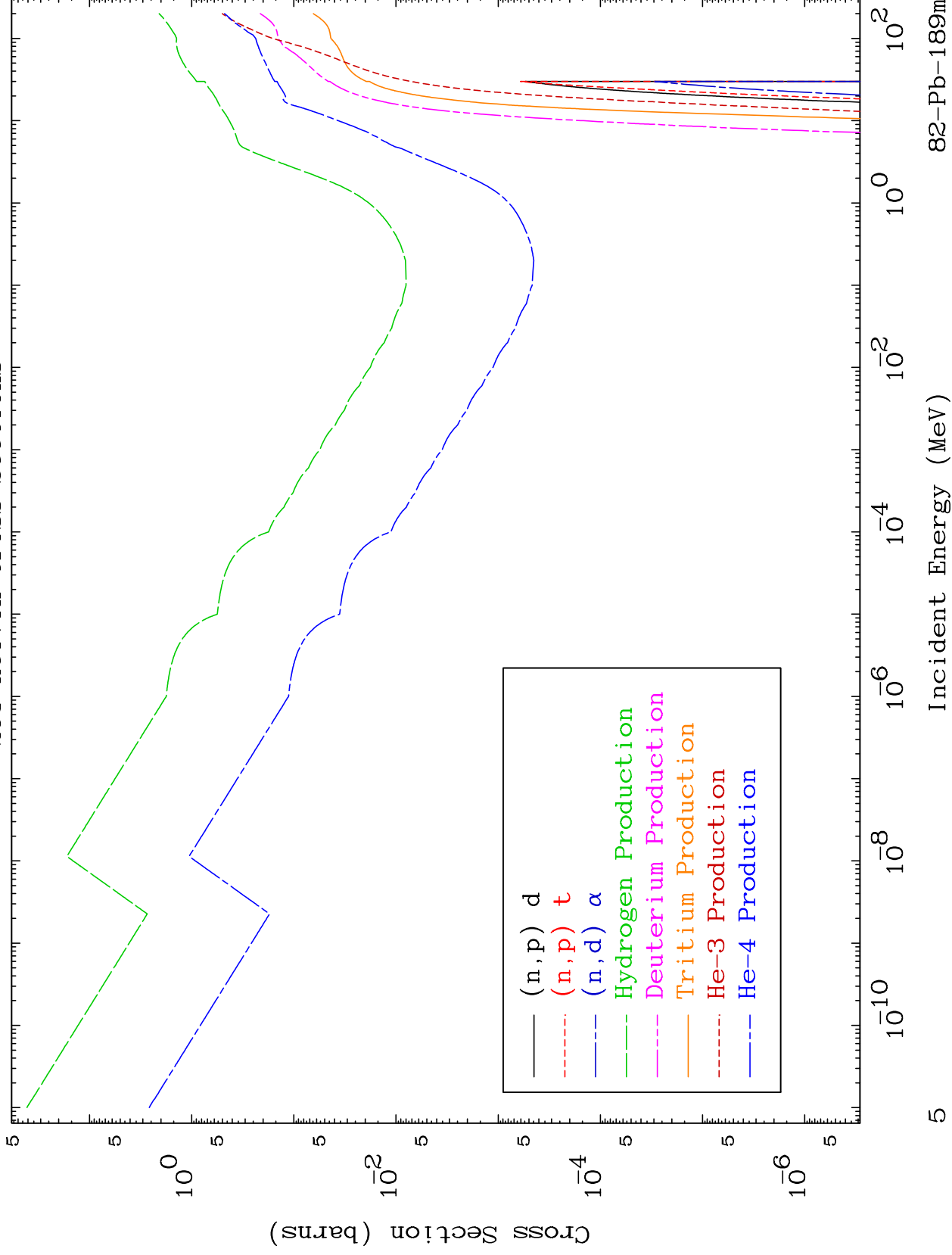
82-Pb-189m



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Neutron Absorption  
293 Kelvin Cross Sections

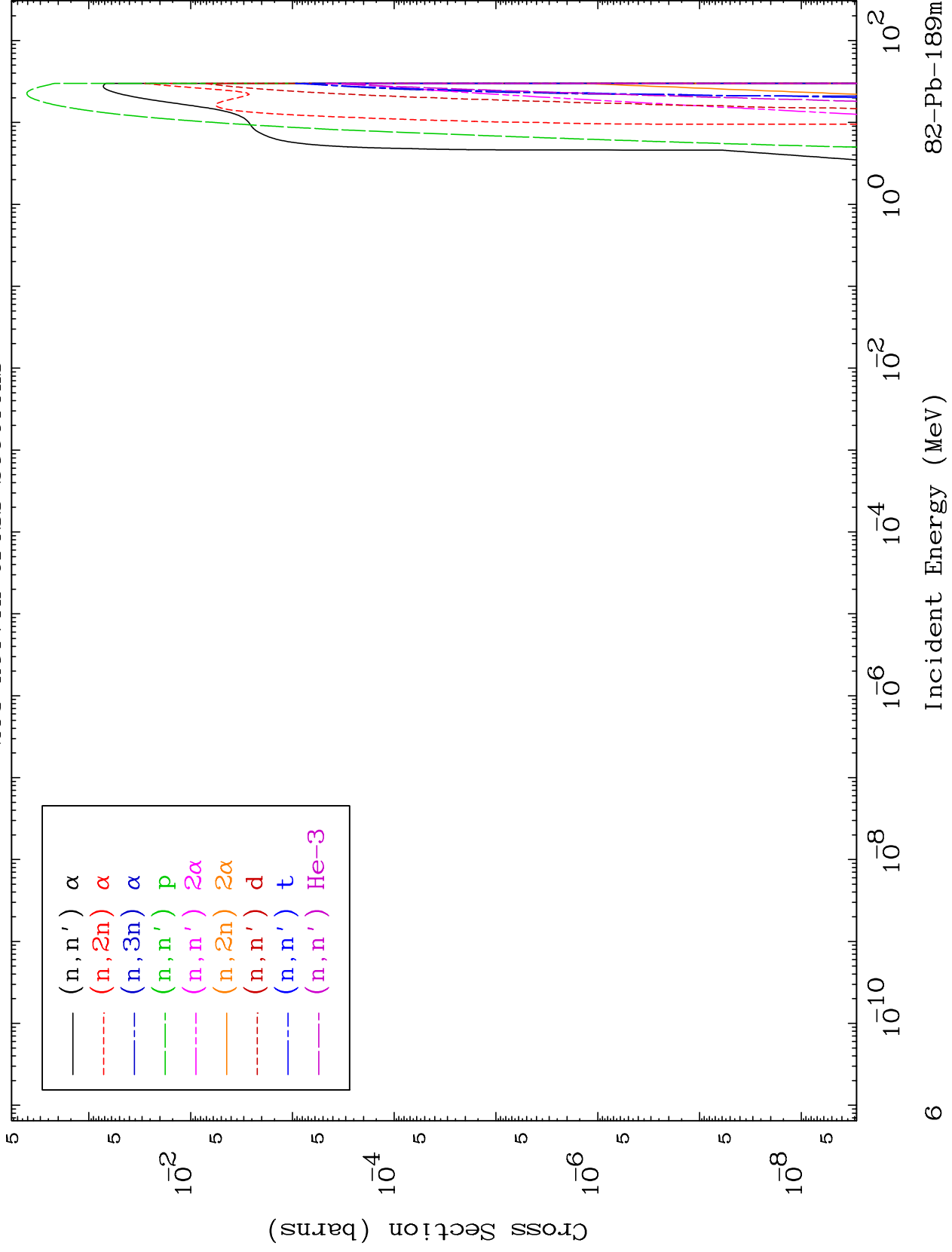
82-Pb-189m



MAT 8181

Charged Particle  
293 Kelvin Cross Sections

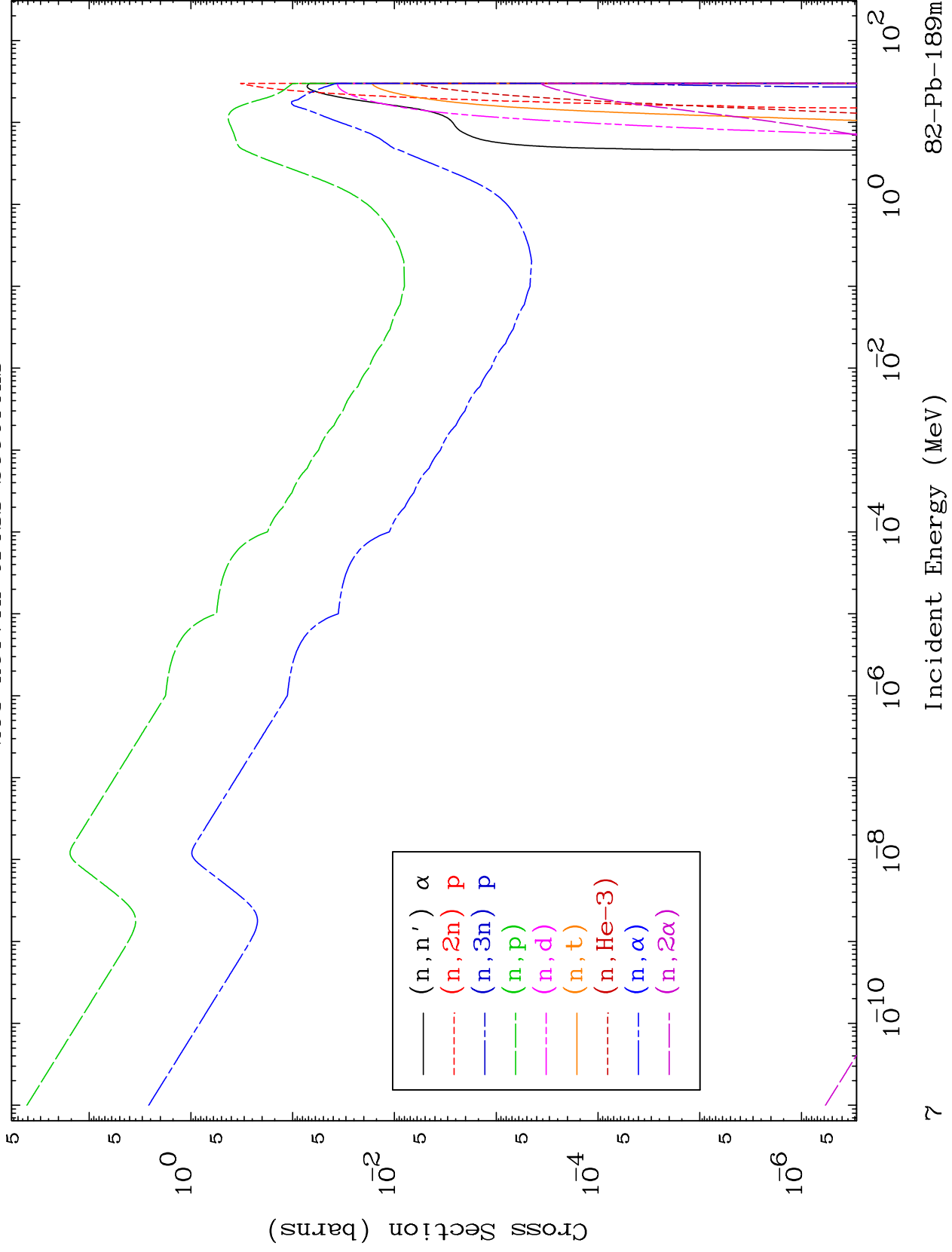
82-Pb-189m



MAT 8181

Charged Particle  
293 Kelvin Cross Sections

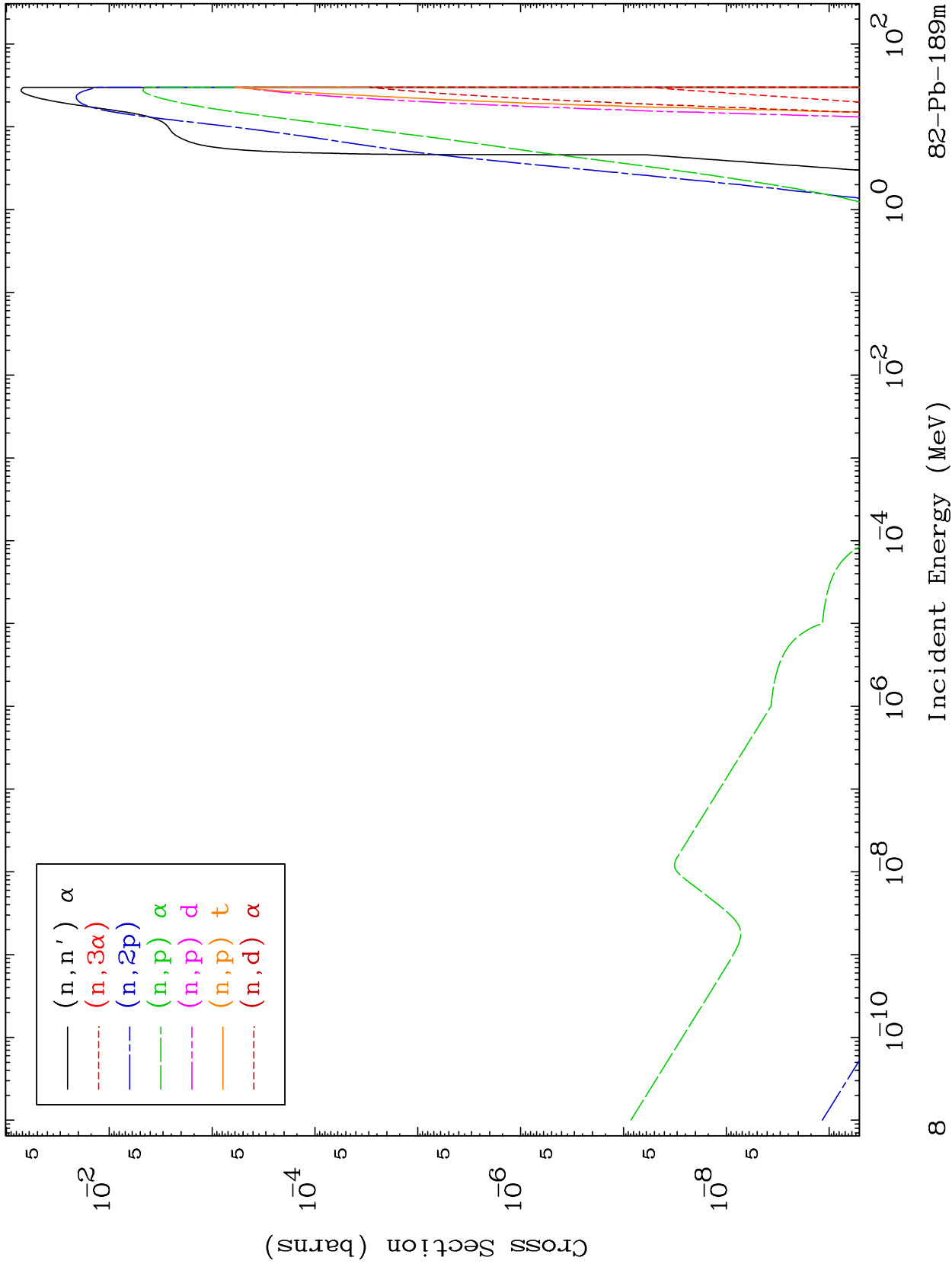
82-Pb-189m



MAT 8181

Charged Particle  
293 Kelvin Cross Sections

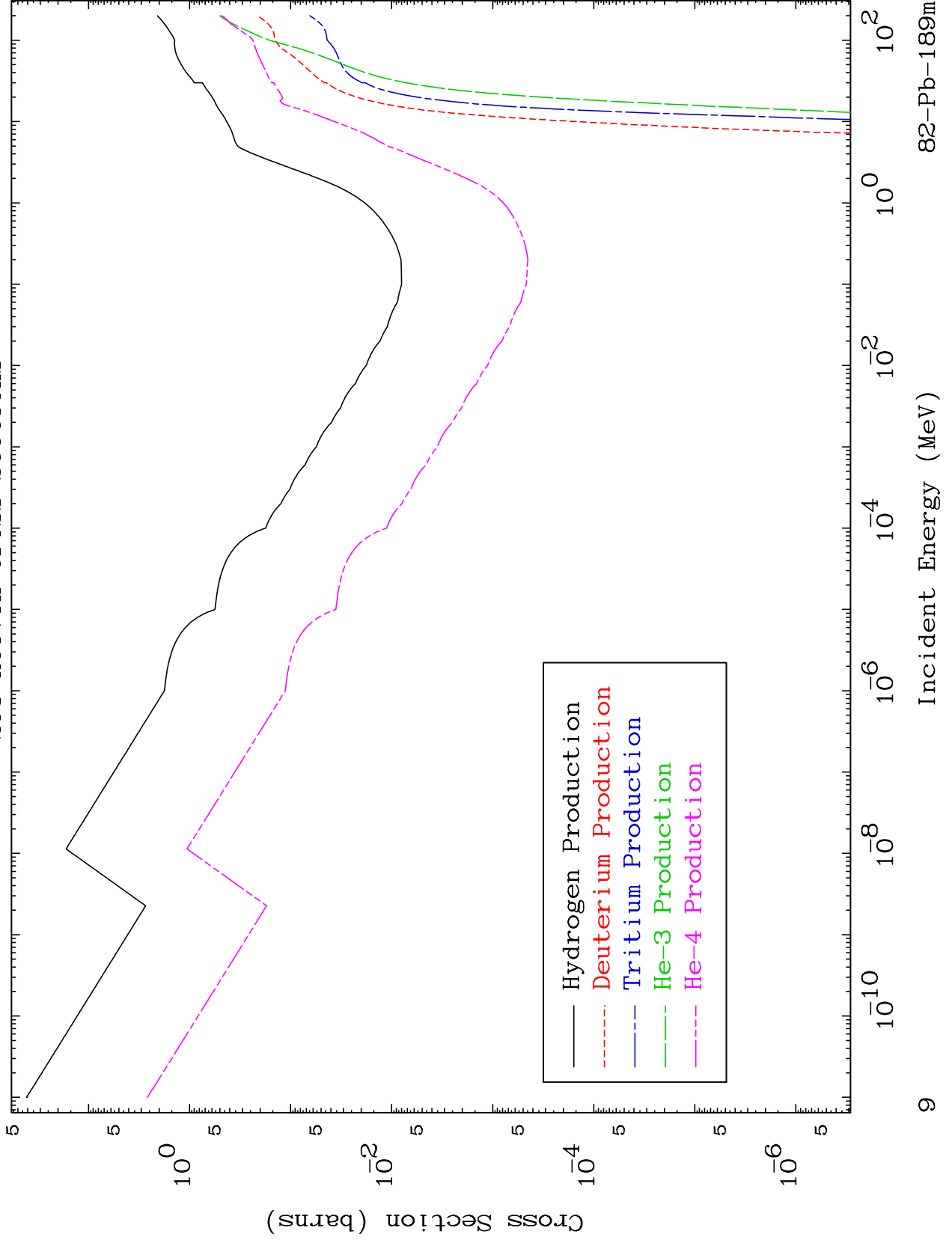
82-Pb-189m

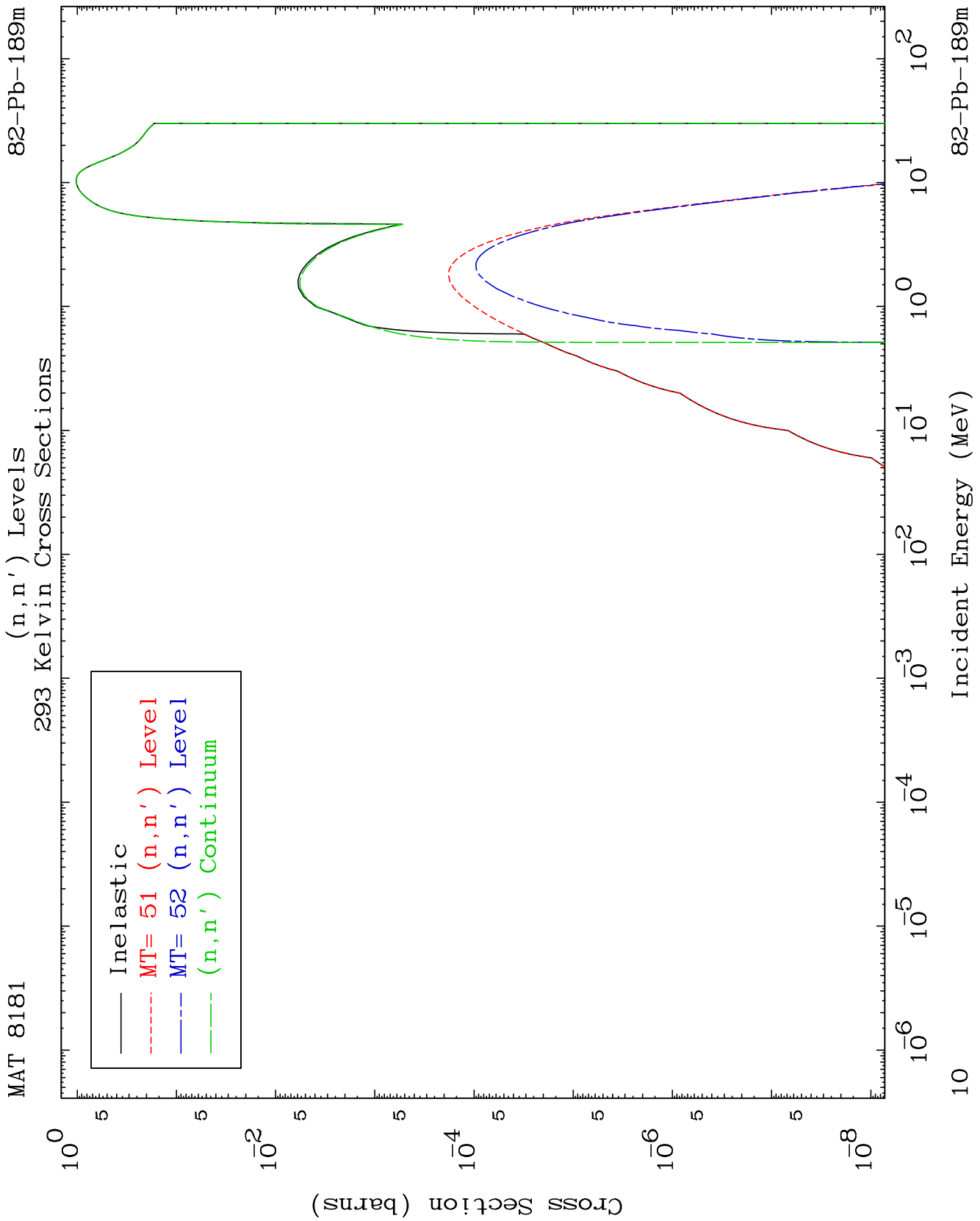


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Particle Production  
293 Kelvin Cross Sections

82-Pb-189m

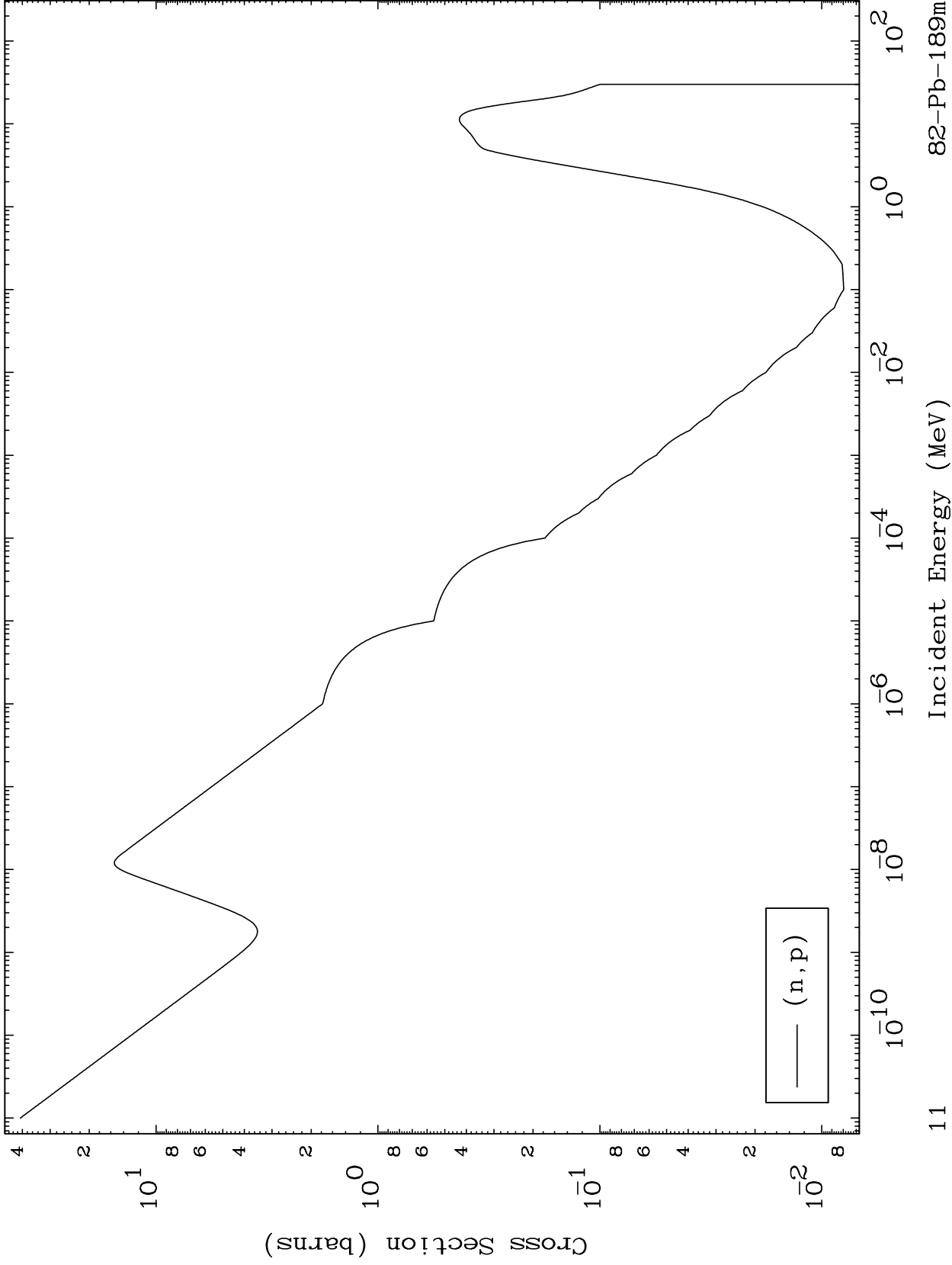




MAT 8181

(n,p) Levels  
293 Kelvin Cross Sections

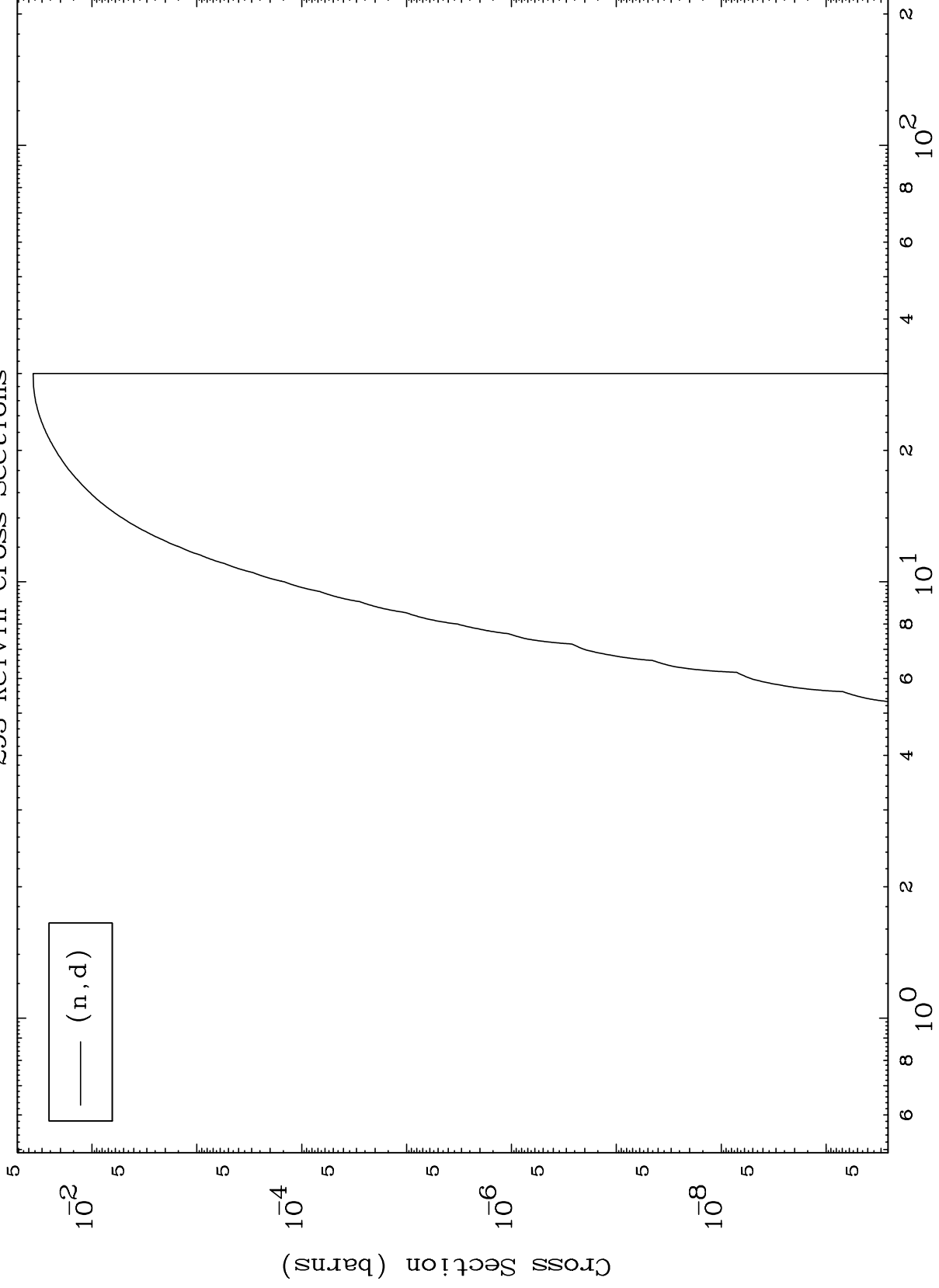
82-Pb-189m



MAT 8181

(n,d) Levels  
293 Kelvin Cross Sections

82-Pb-189m



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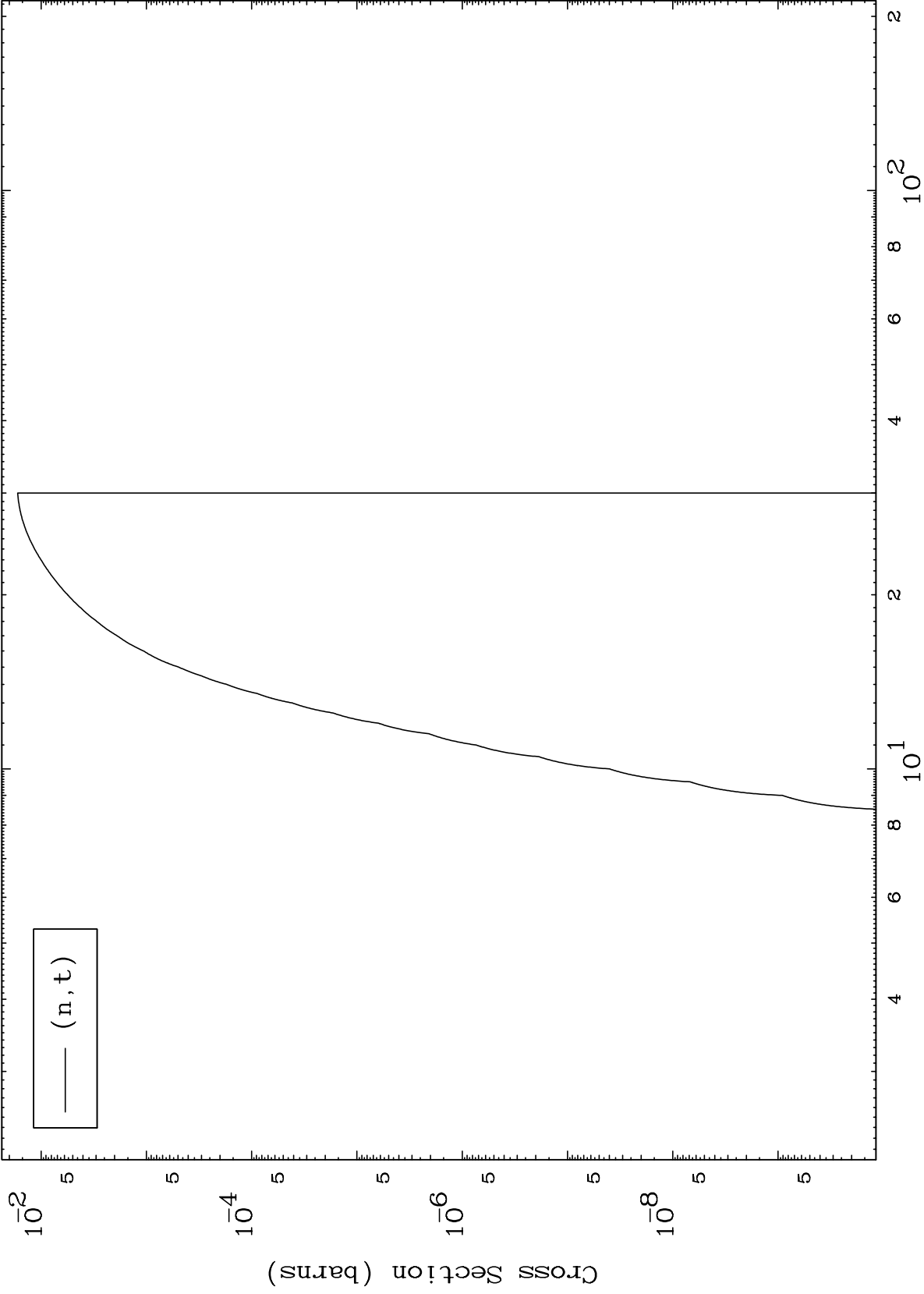
Incident Energy (MeV)

82-Pb-189m

MAT 8181

(n,t) Levels  
293 Kelvin Cross Sections

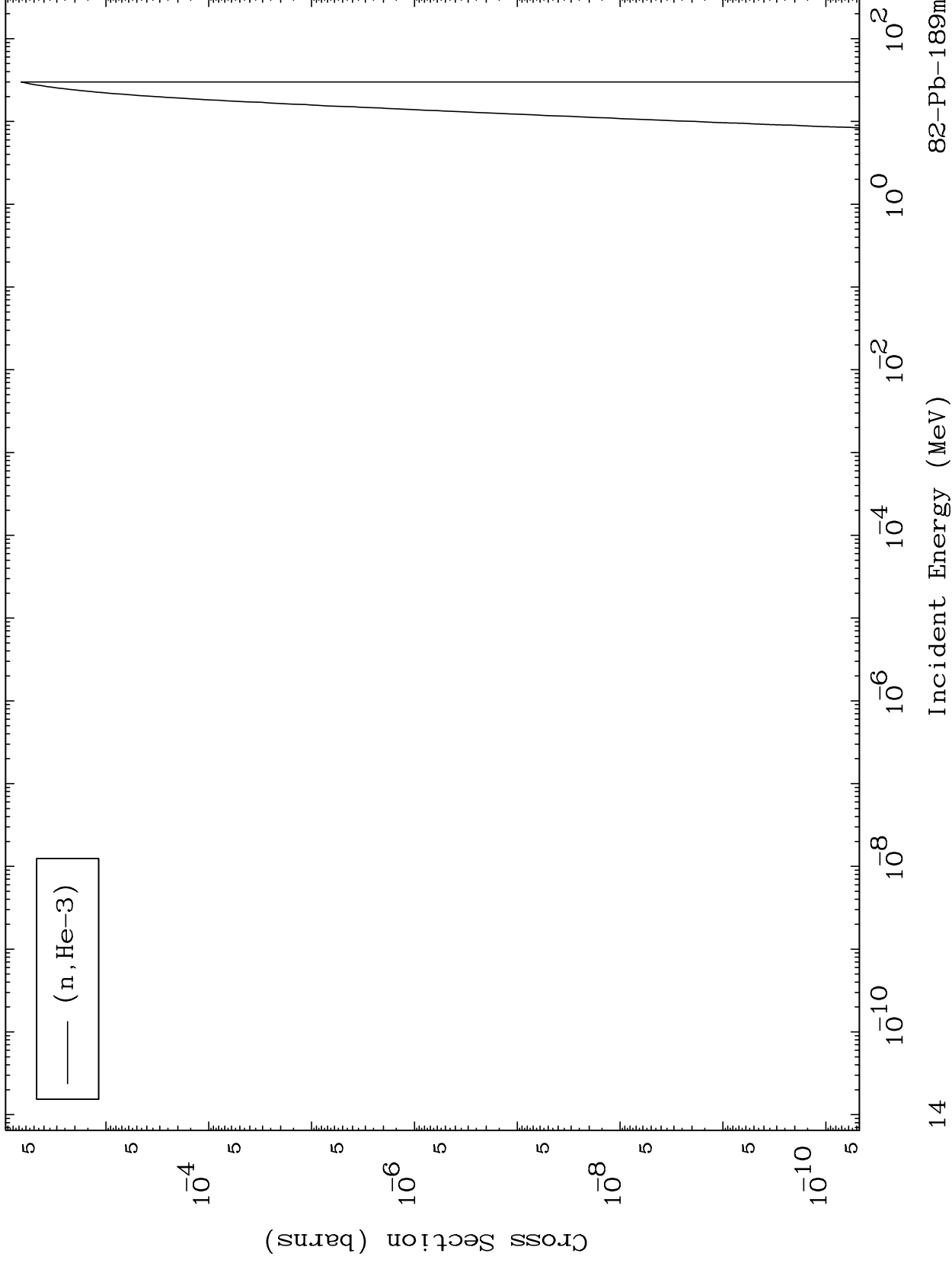
82-Pb-189m



MAT 8181

(n,He3) Levels  
293 Kelvin Cross Sections

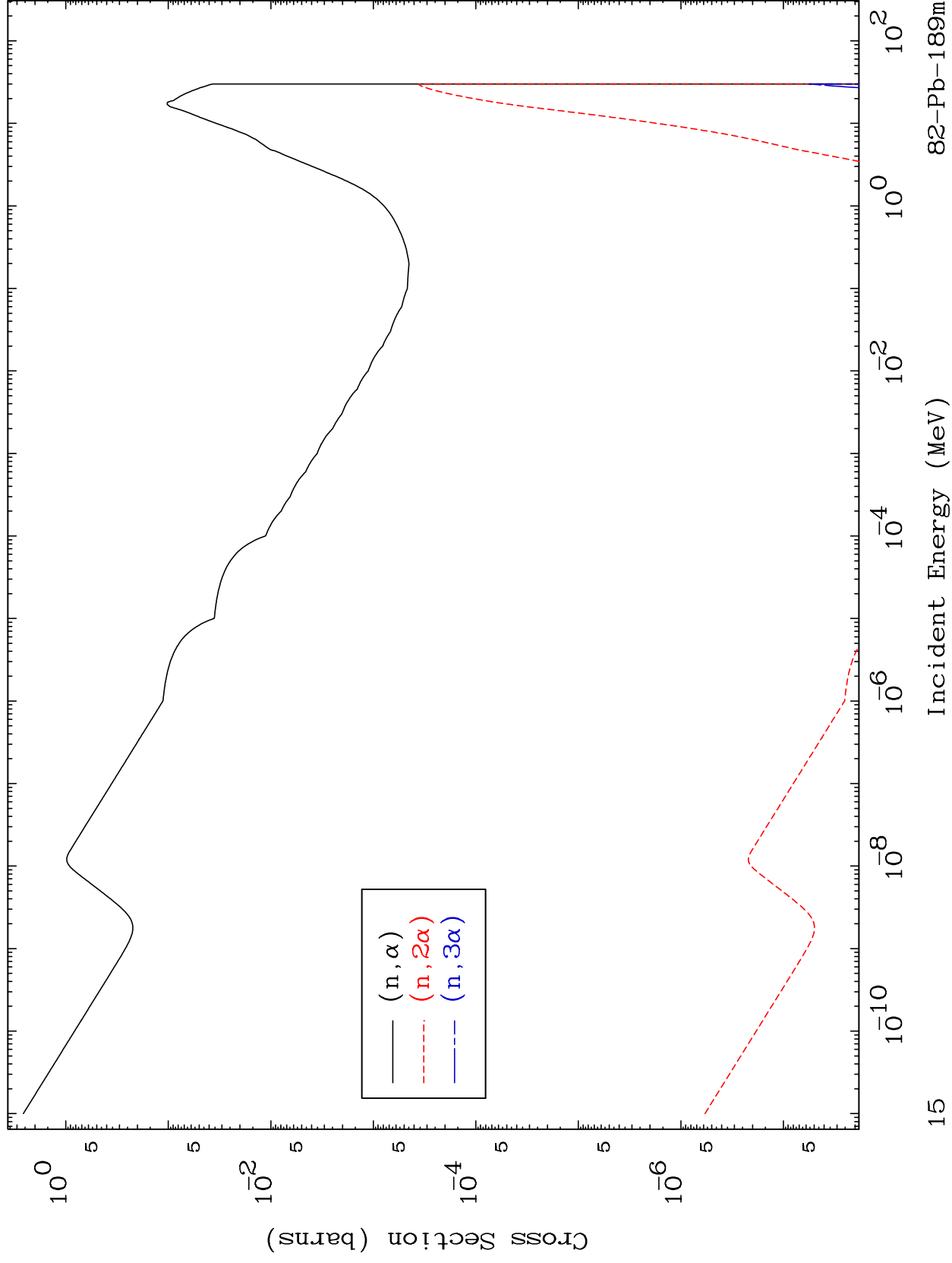
82-Pb-189m



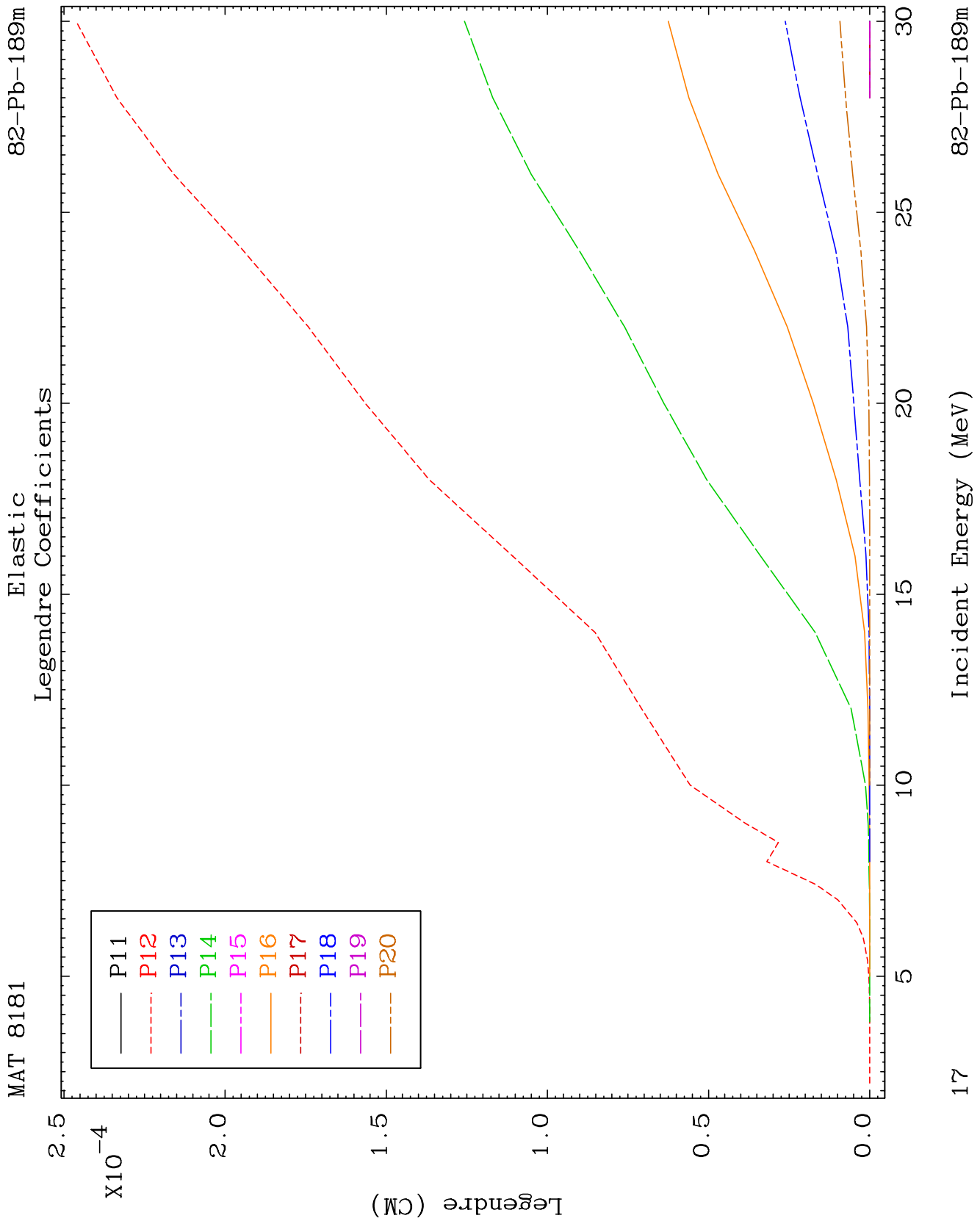
MAT 8181

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

82-Pb-189m



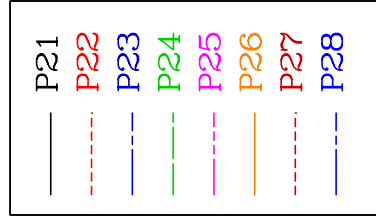




MAT 8181

Elastic  
Legendre Coefficients

82-Pb-189m



$\times 10^{-6}$   
1.2

1.0

Legendre (CM)

0.8

0.6

0.4

0.2

0.0

15

20

25

30

18

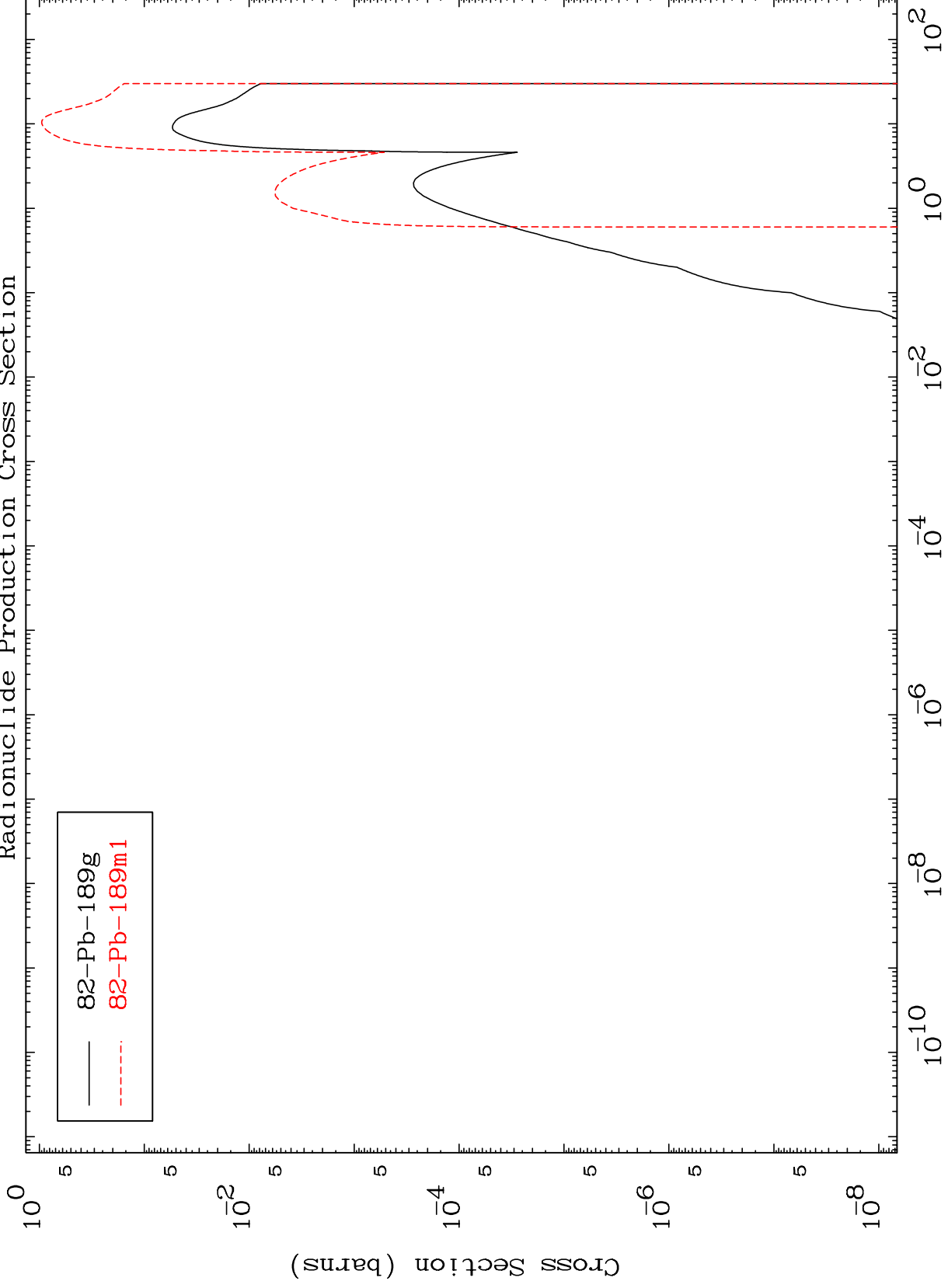
Incident Energy (MeV)

82-Pb-189m

MAT 8181

Inelastic  
Radionuclide Production Cross Section

82-Pb-189m



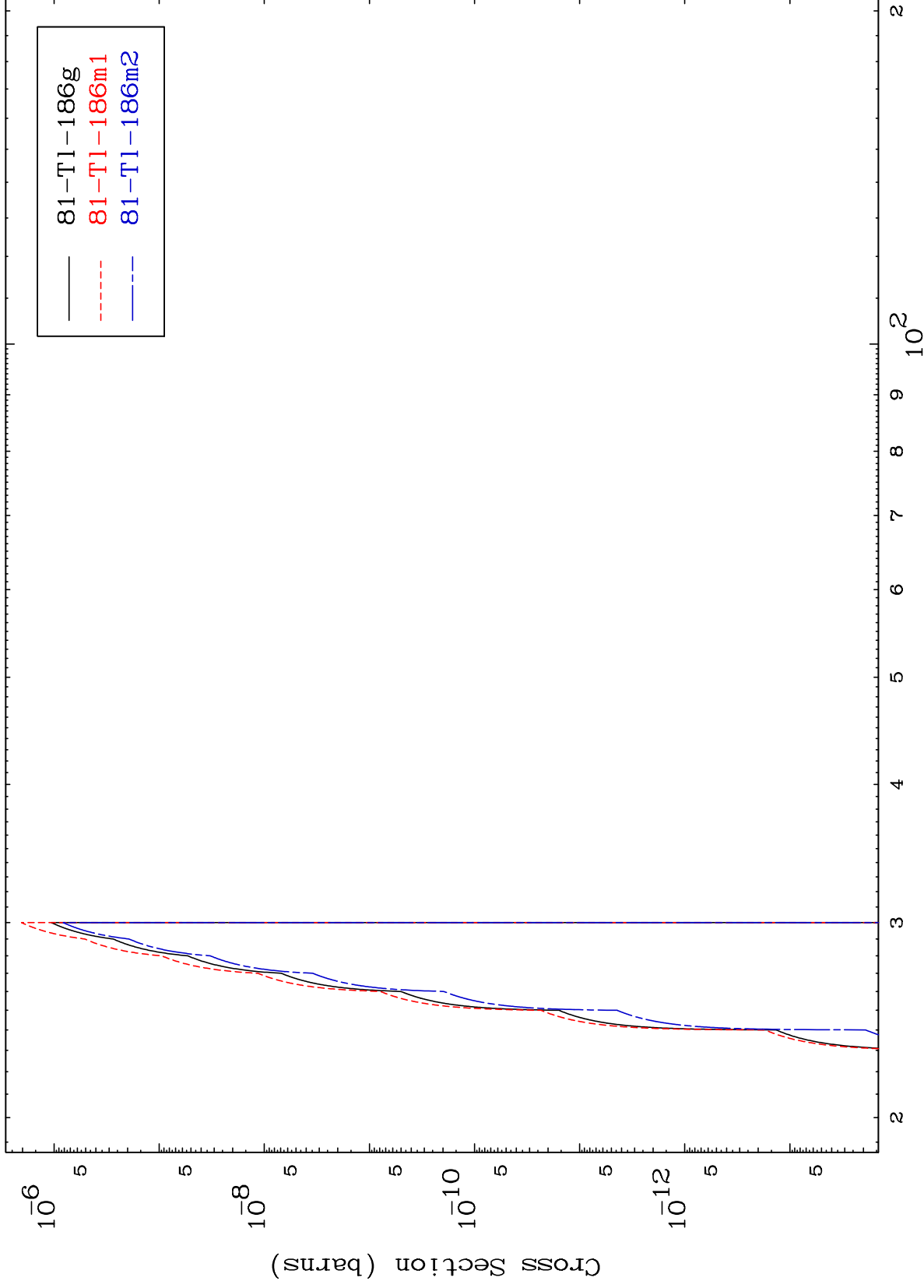
82-Pb-189g  
82-Pb-189m1

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(n,2n) d

82-Pb-189m

Radionuclide Production Cross Section



20

Incident Energy (MeV)

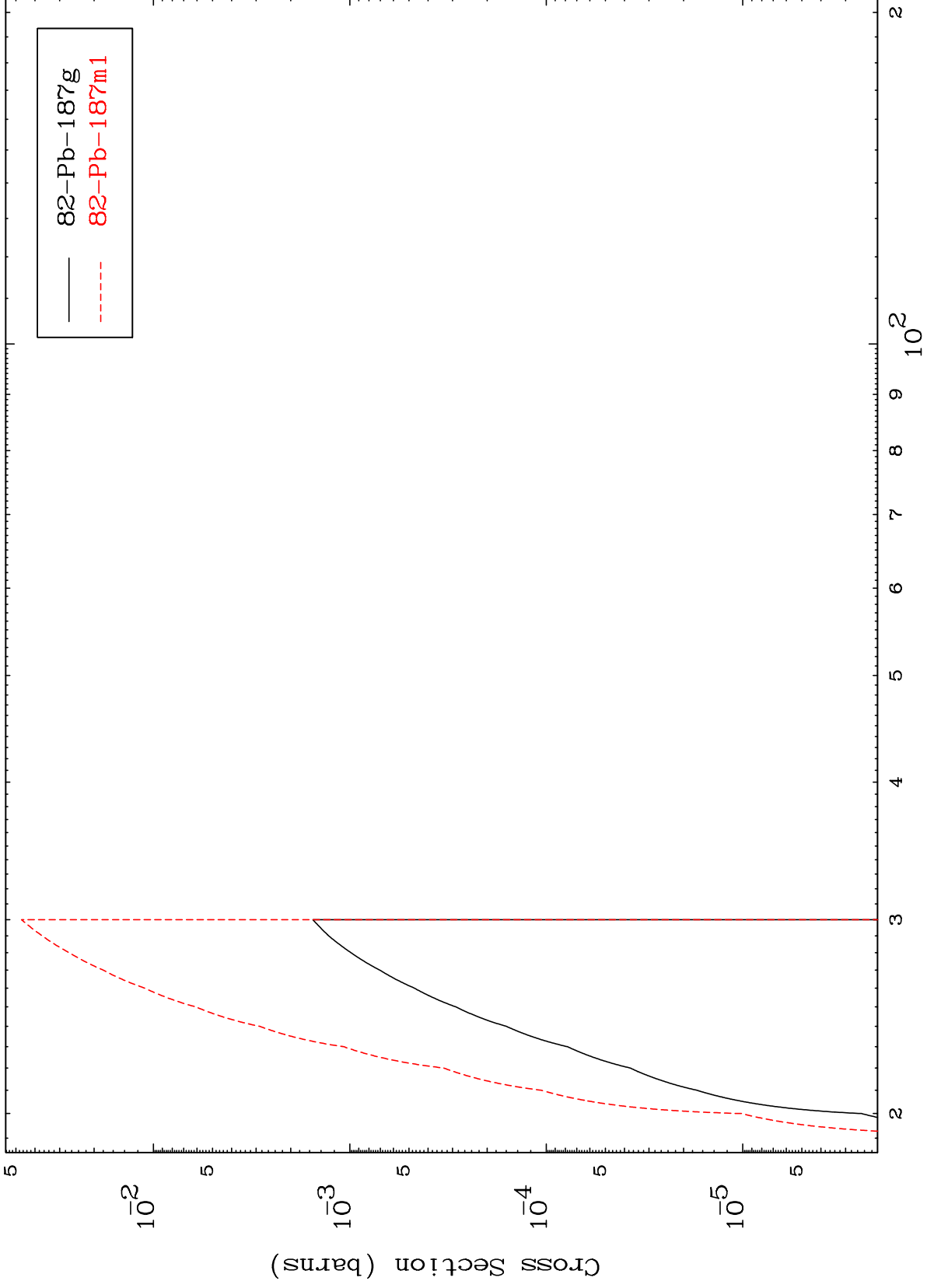
82-Pb-189m

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(n,3n)

<sup>82</sup>Pb-189m

Radionuclide Production Cross Section



21

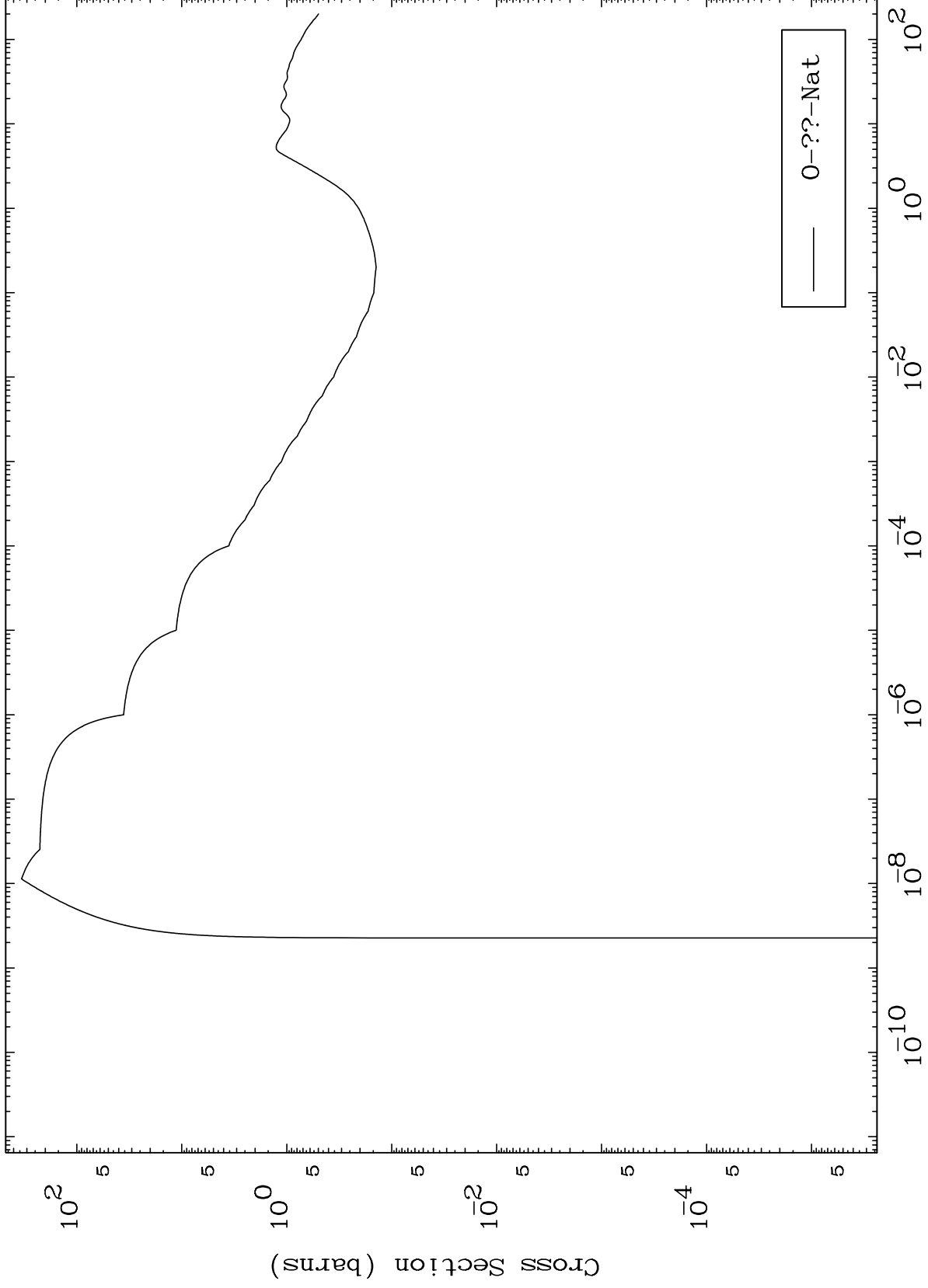
Incident Energy (MeV)

<sup>82</sup>Pb-189m

MAT 8181

82-Pb-189m

Fission  
Radionuclide Production Cross Section



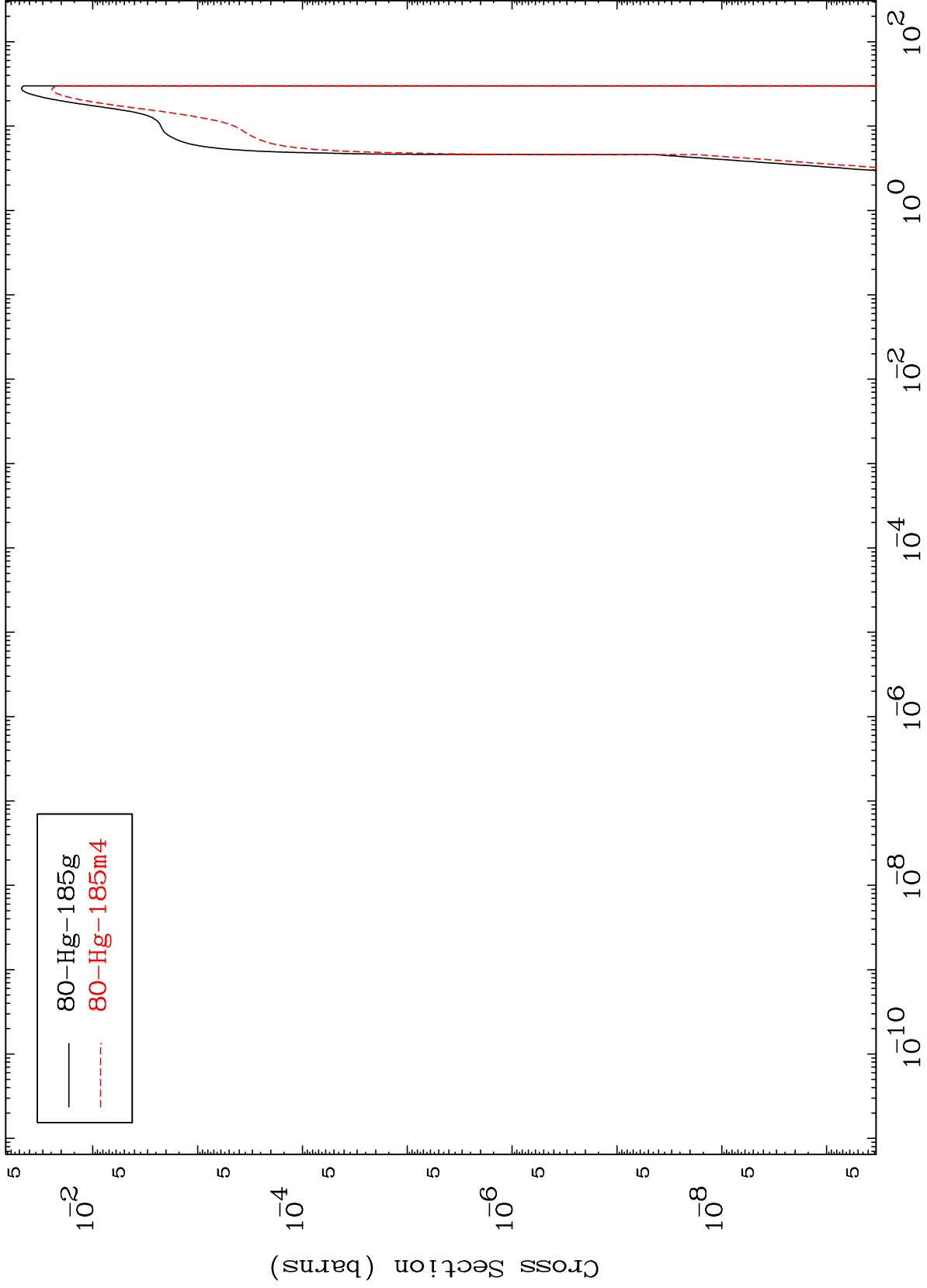
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$(n, n') \alpha$

82-Pb-189m

Radionuclide Production Cross Section



23

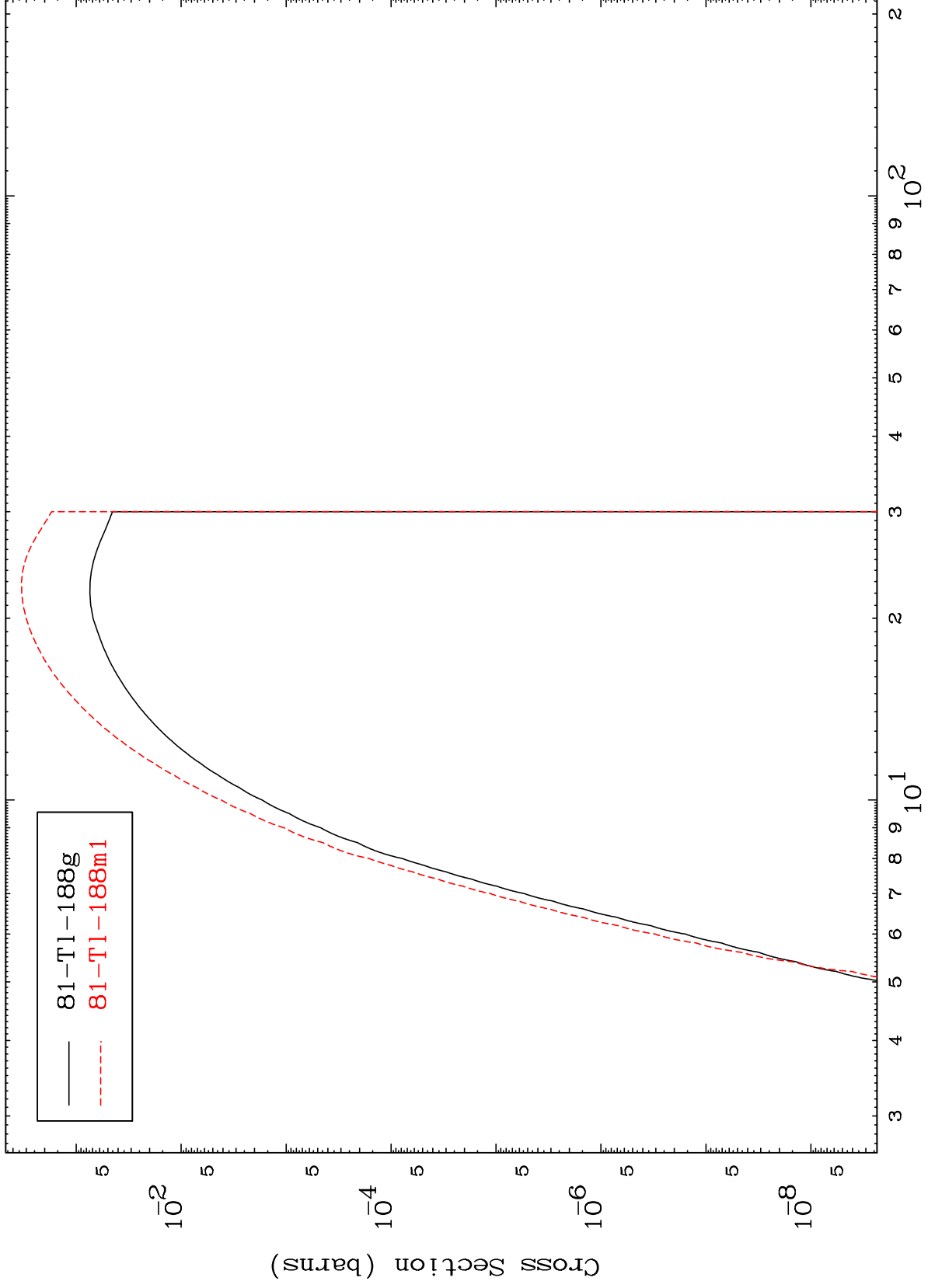
Incident Energy (MeV)

82-Pb-189m

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<sup>82</sup>Pb-189m

(n,n') p  
Radionuclide Production Cross Section



24

Incident Energy (MeV)

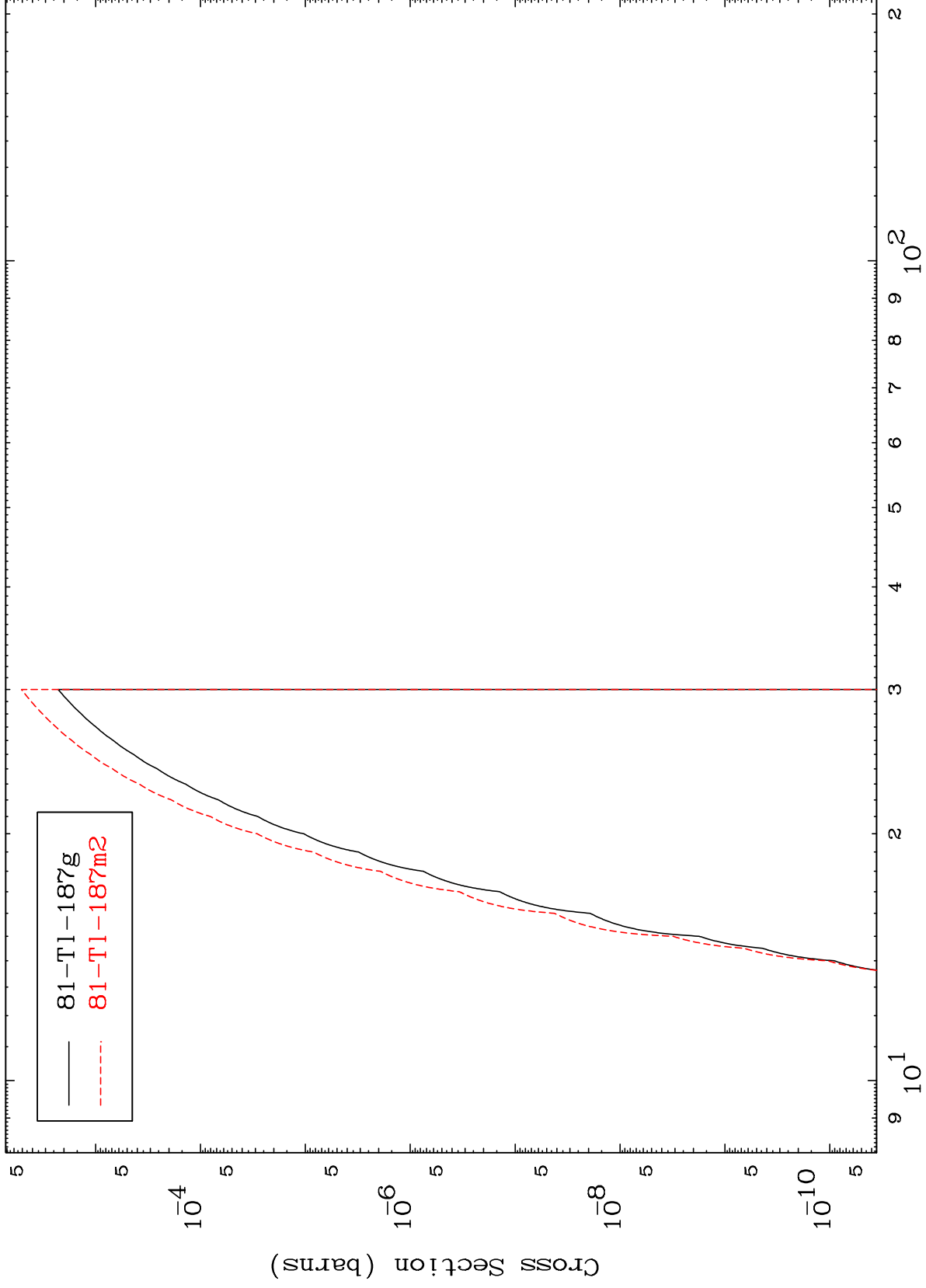
<sup>82</sup>Pb-189m

MAT 8181

(n,n') d

82-Pb-189m

Radionuclide Production Cross Section

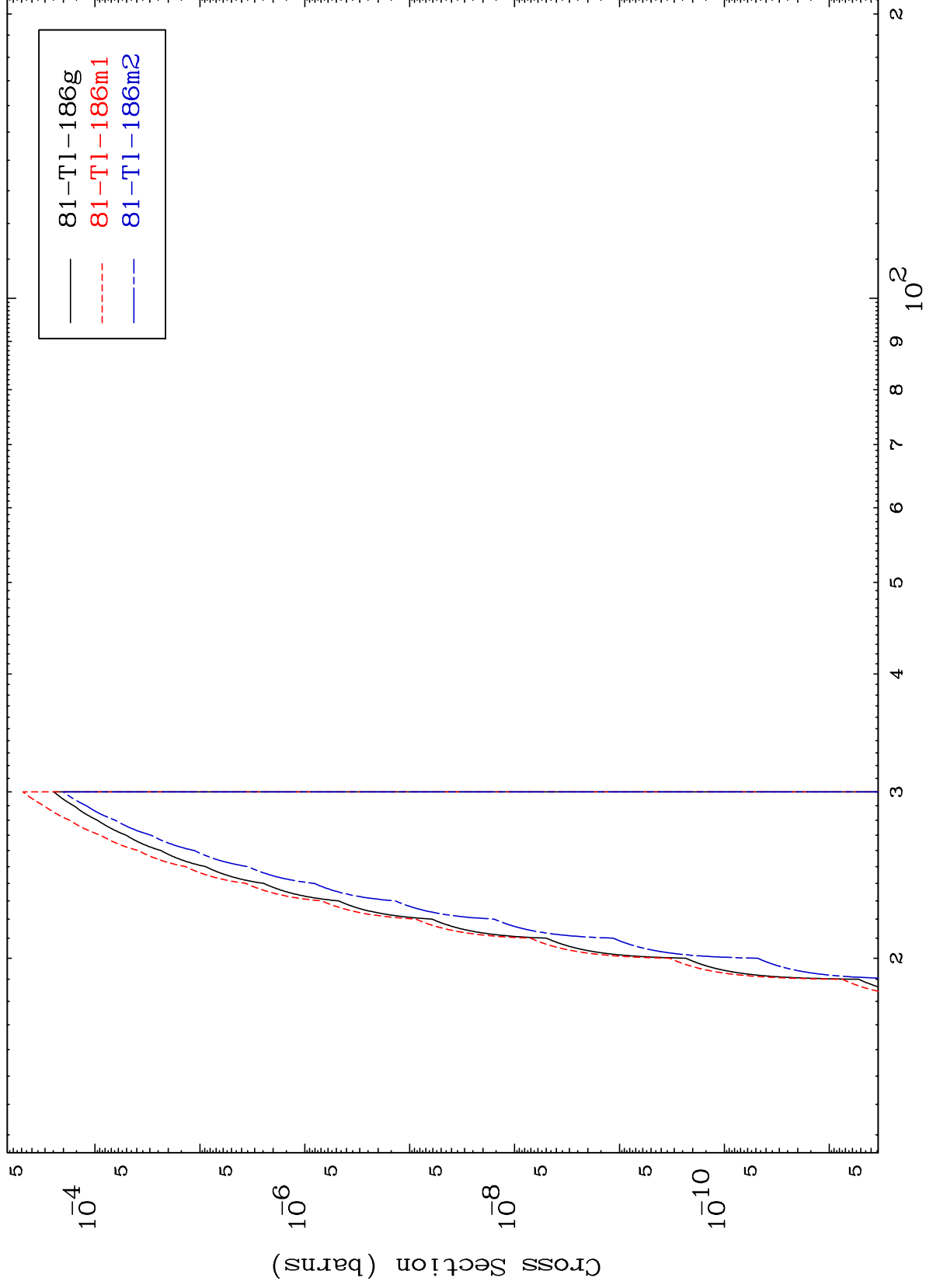


25

Incident Energy (MeV)

82-Pb-189m

Radionuclide Production Cross Section

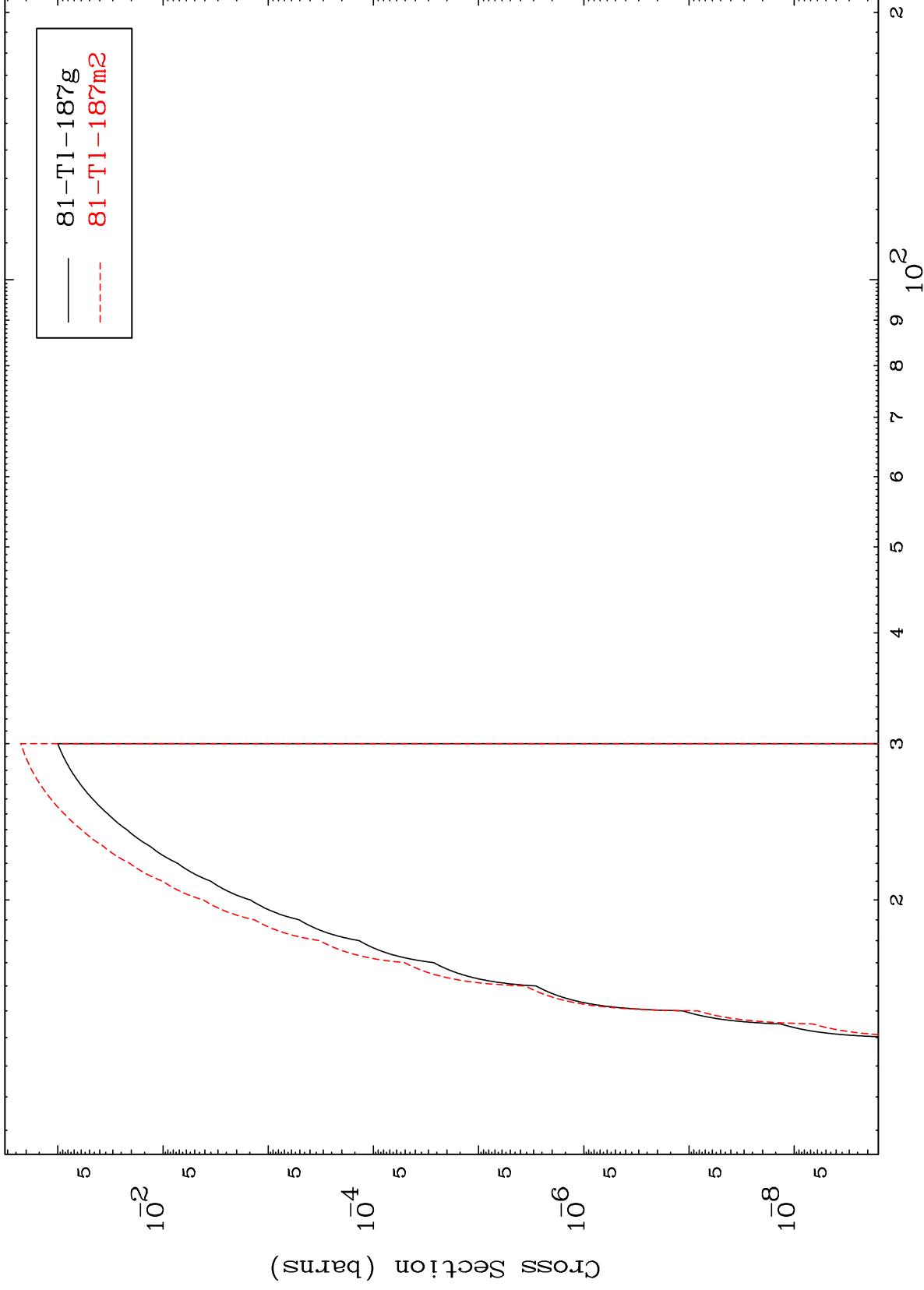


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(n,2n) p

82-Pb-189m

Radionuclide Production Cross Section

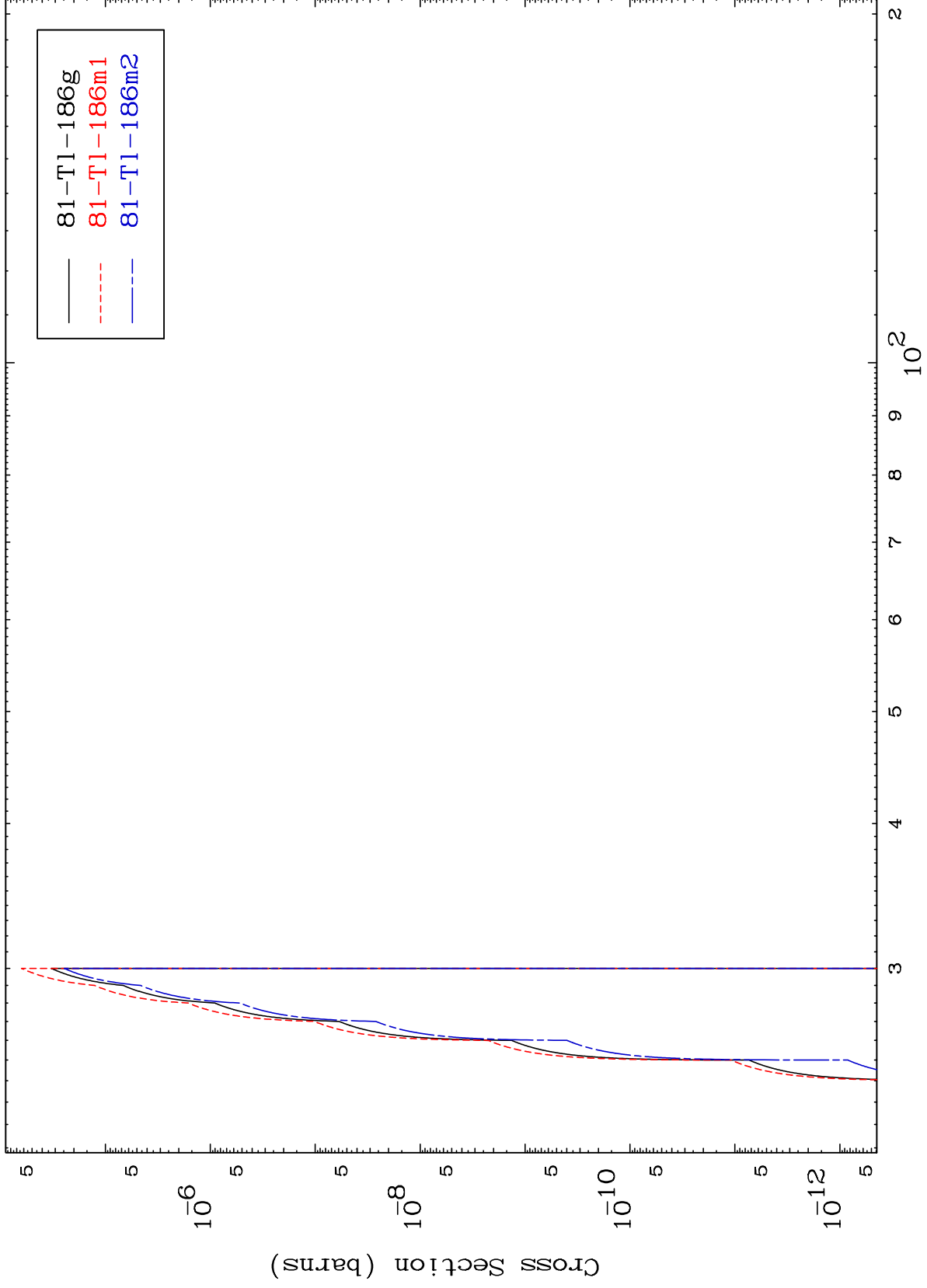


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Incident Energy (MeV)

82-Pb-189m

Radionuclide Production Cross Section

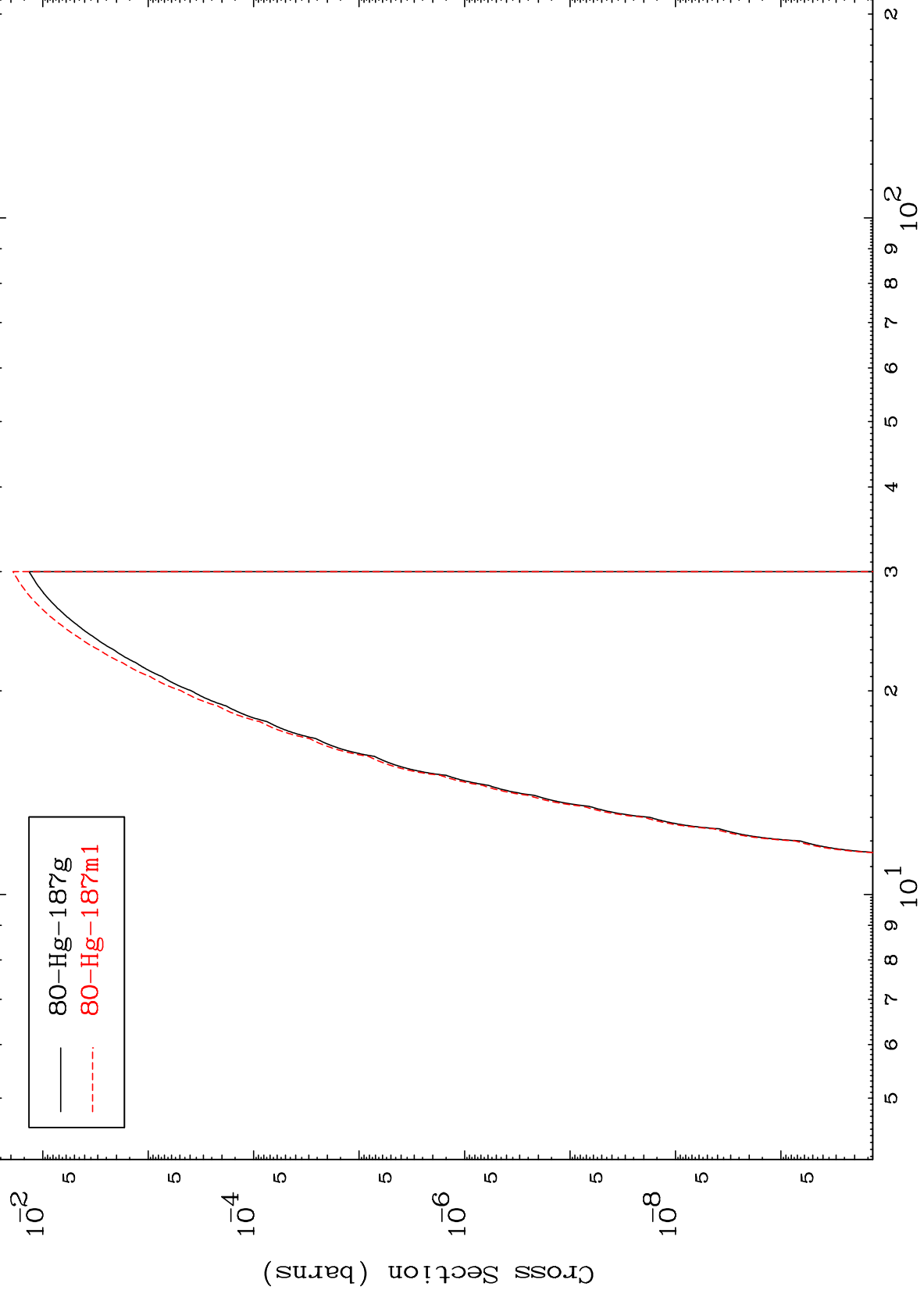


MAT 8181

(n,2n) p

82-Pb-189m

Radionuclide Production Cross Section



29

Incident Energy (MeV)

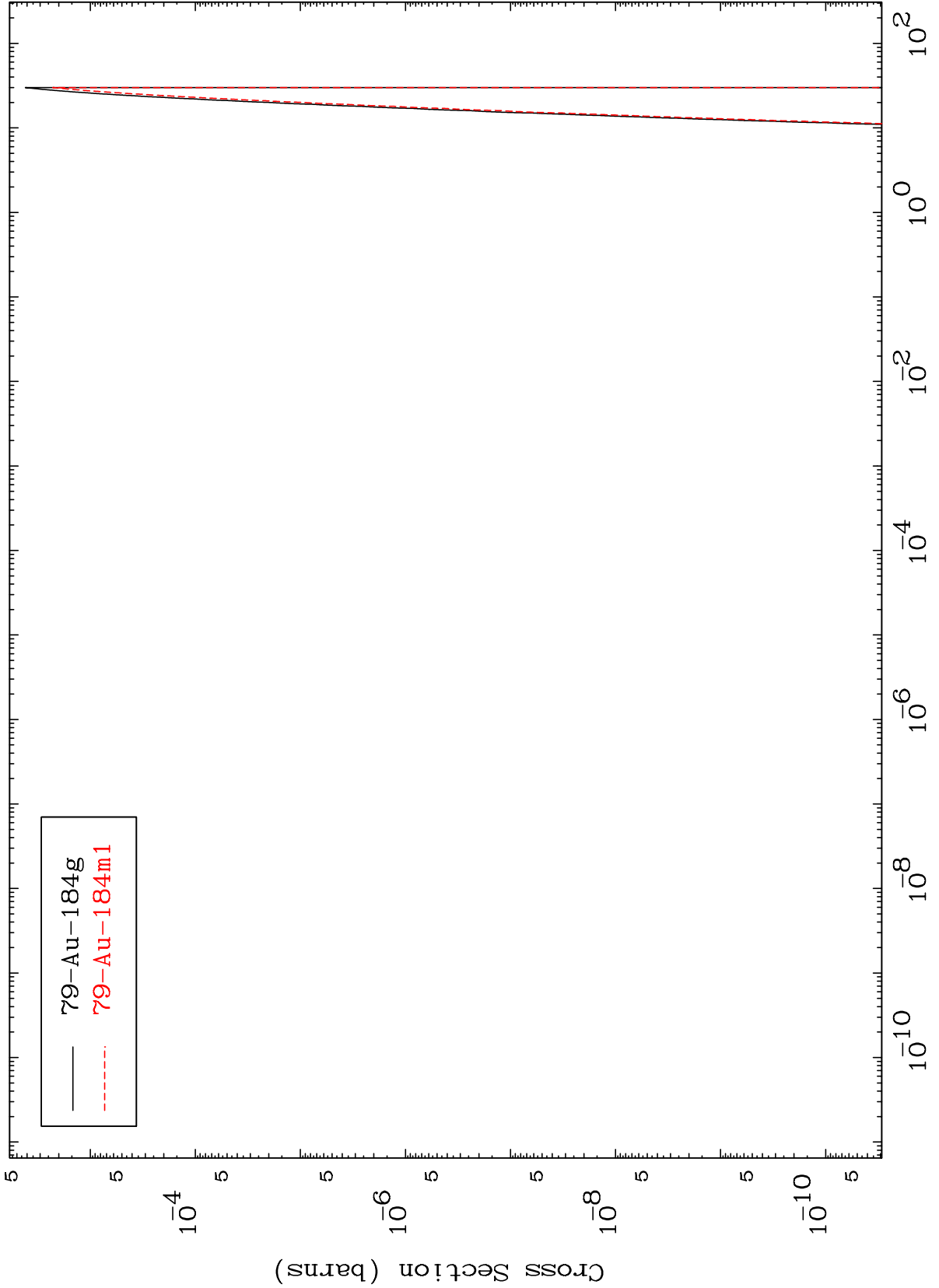
82-Pb-189m

MAT 8181

(n,n') p  $\alpha$

82-Pb-189m

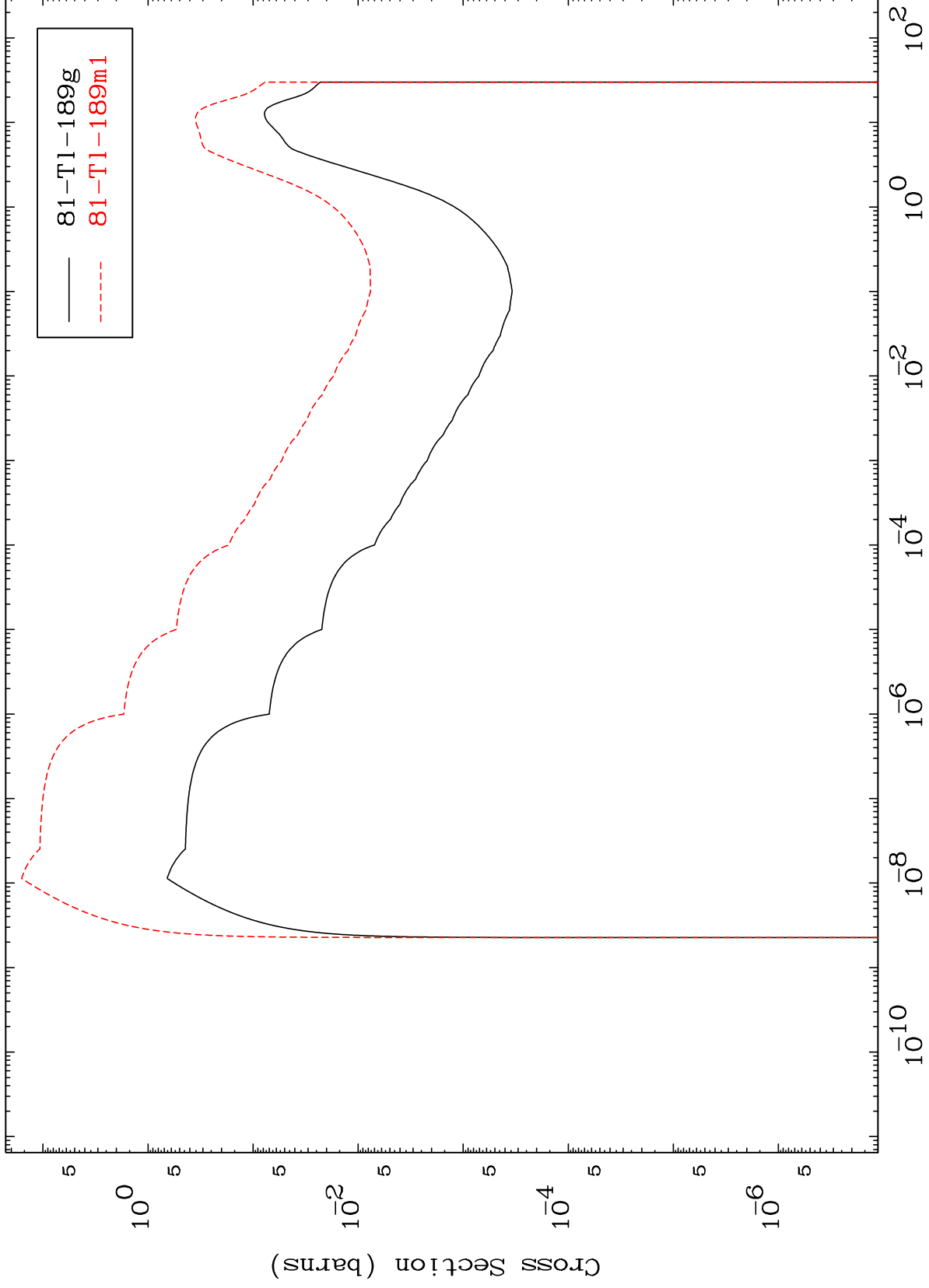
Radionuclide Production Cross Section



MAT 8181

82-Pb-189m

(n,p)  
Radionuclide Production Cross Section

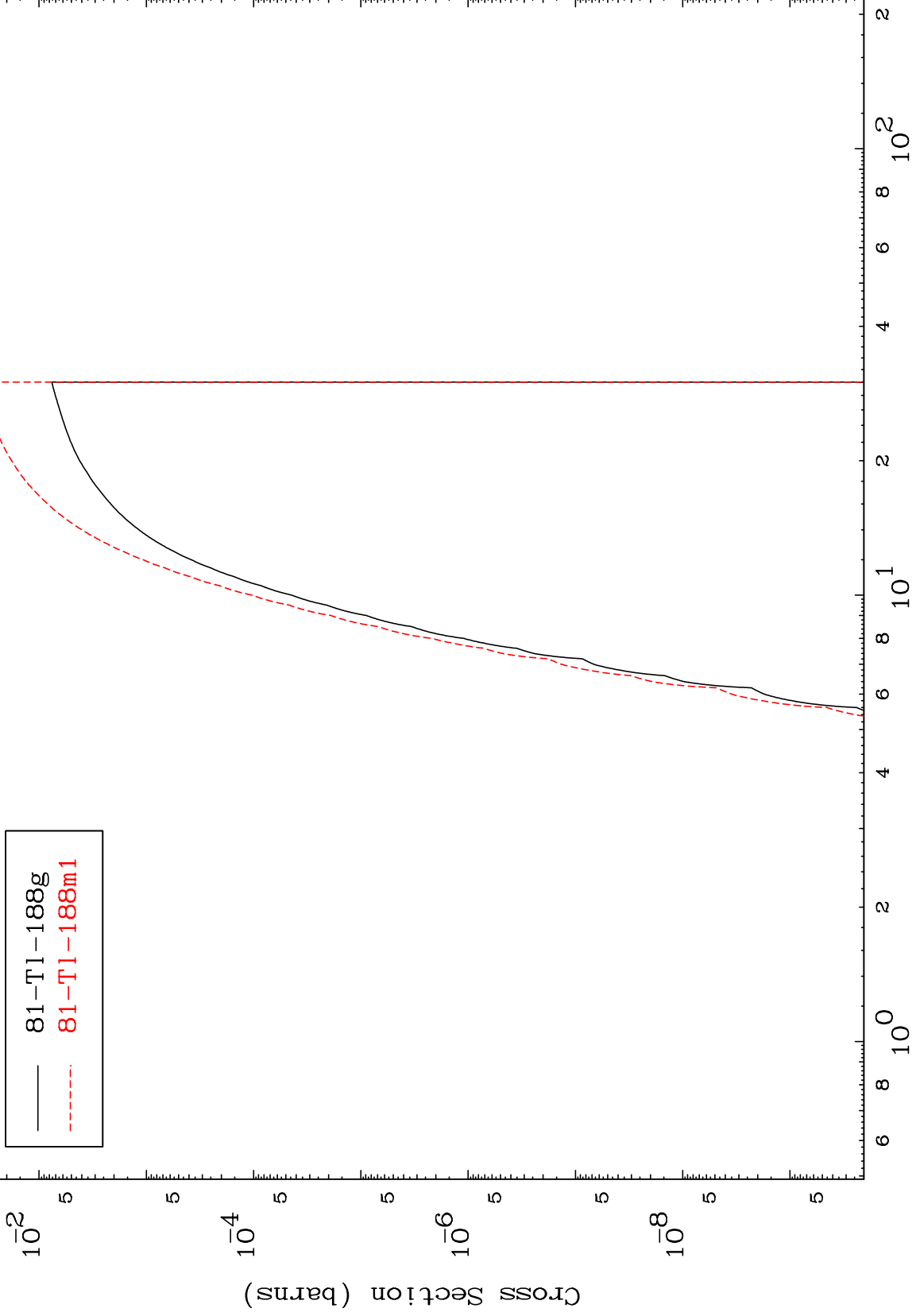
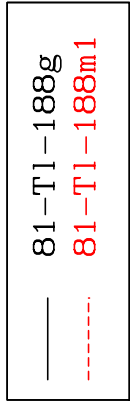


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(n,d)

<sup>82</sup>Pb-189m

Radionuclide Production Cross Section



32

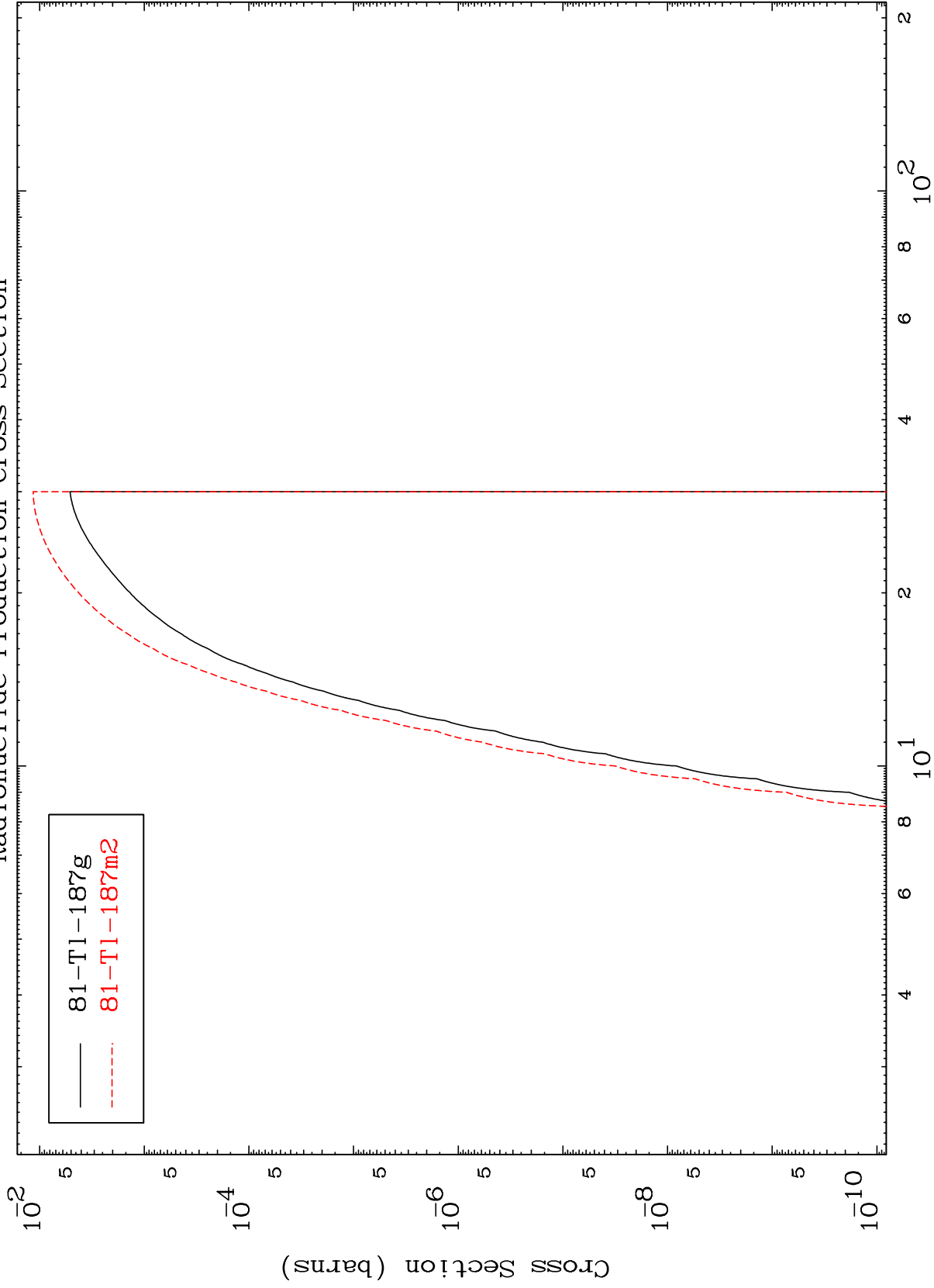
Incident Energy (MeV)

<sup>82</sup>Pb-189m

MAT 8181

<sup>82</sup>Pb-189m

Radionuclide Production Cross Section



Incident Energy (MeV)

<sup>82</sup>Pb-189m

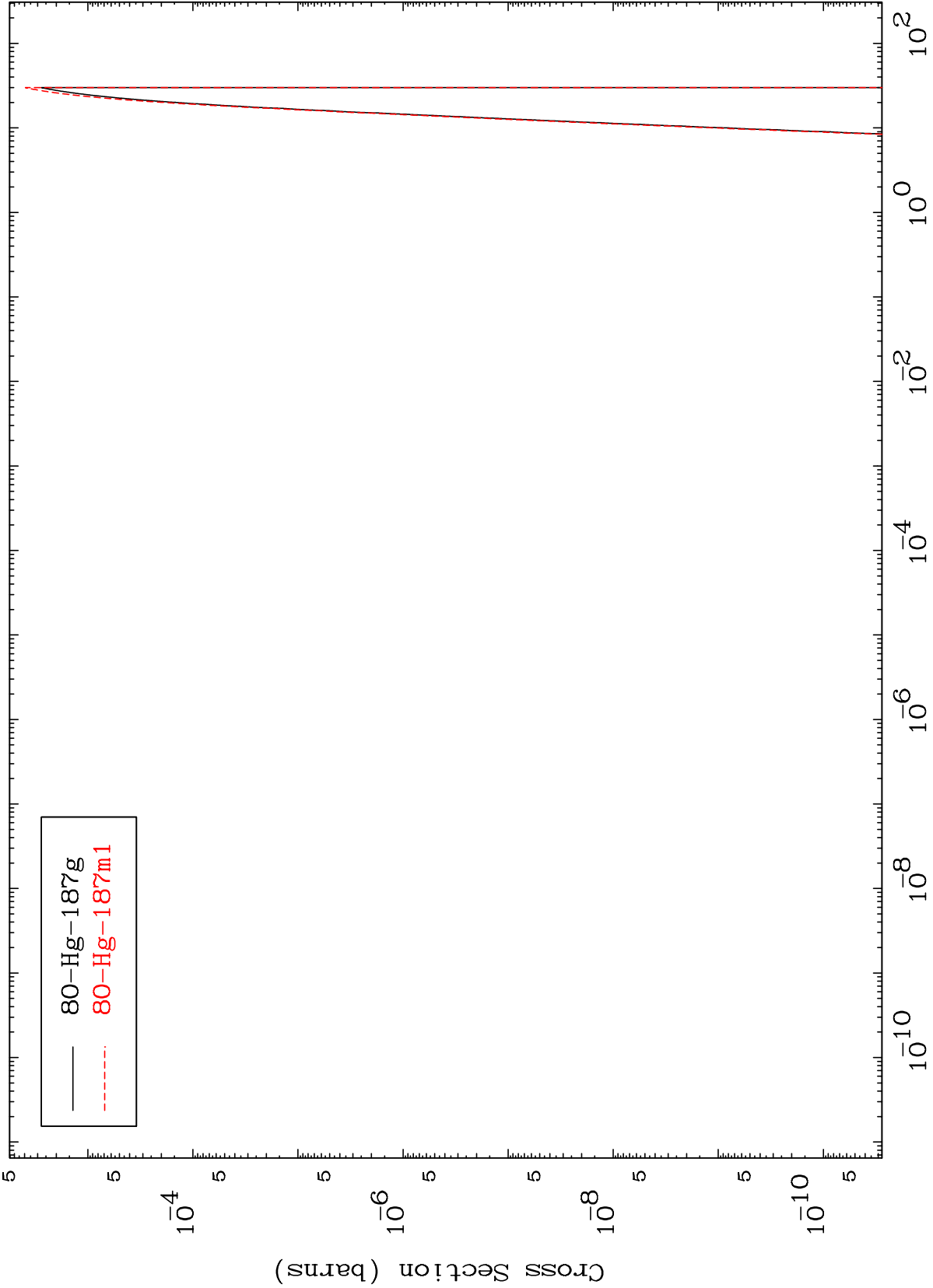
33

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(n,He-3)

82-Pb-189m

Radionuclide Production Cross Section



80-Hg-187g  
80-Hg-187m1

Incident Energy (MeV)

82-Pb-189m

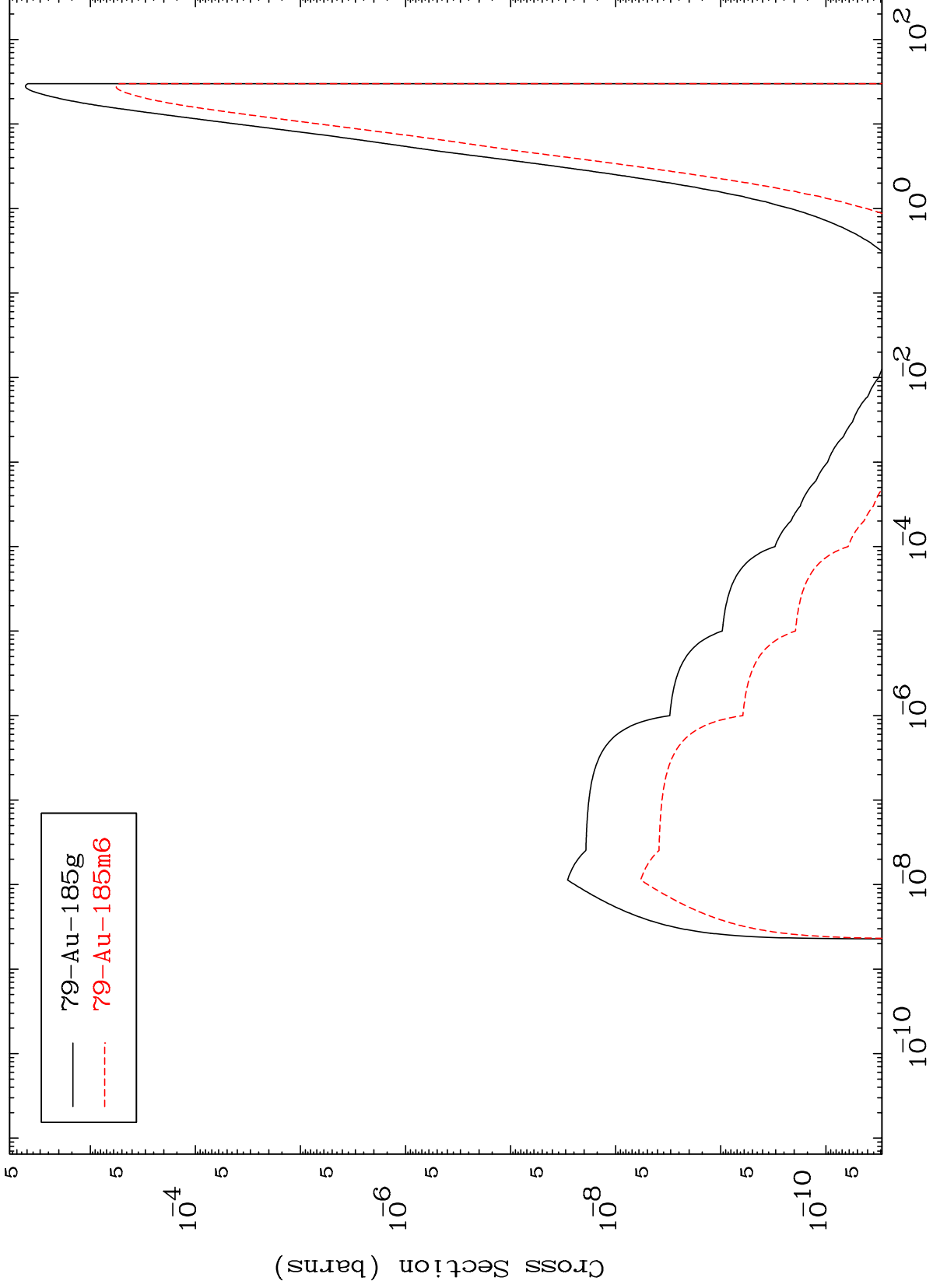
34

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(n,p)  $\alpha$

<sup>82</sup>Pb-189m

Radionuclide Production Cross Section



35

Incident Energy (MeV)

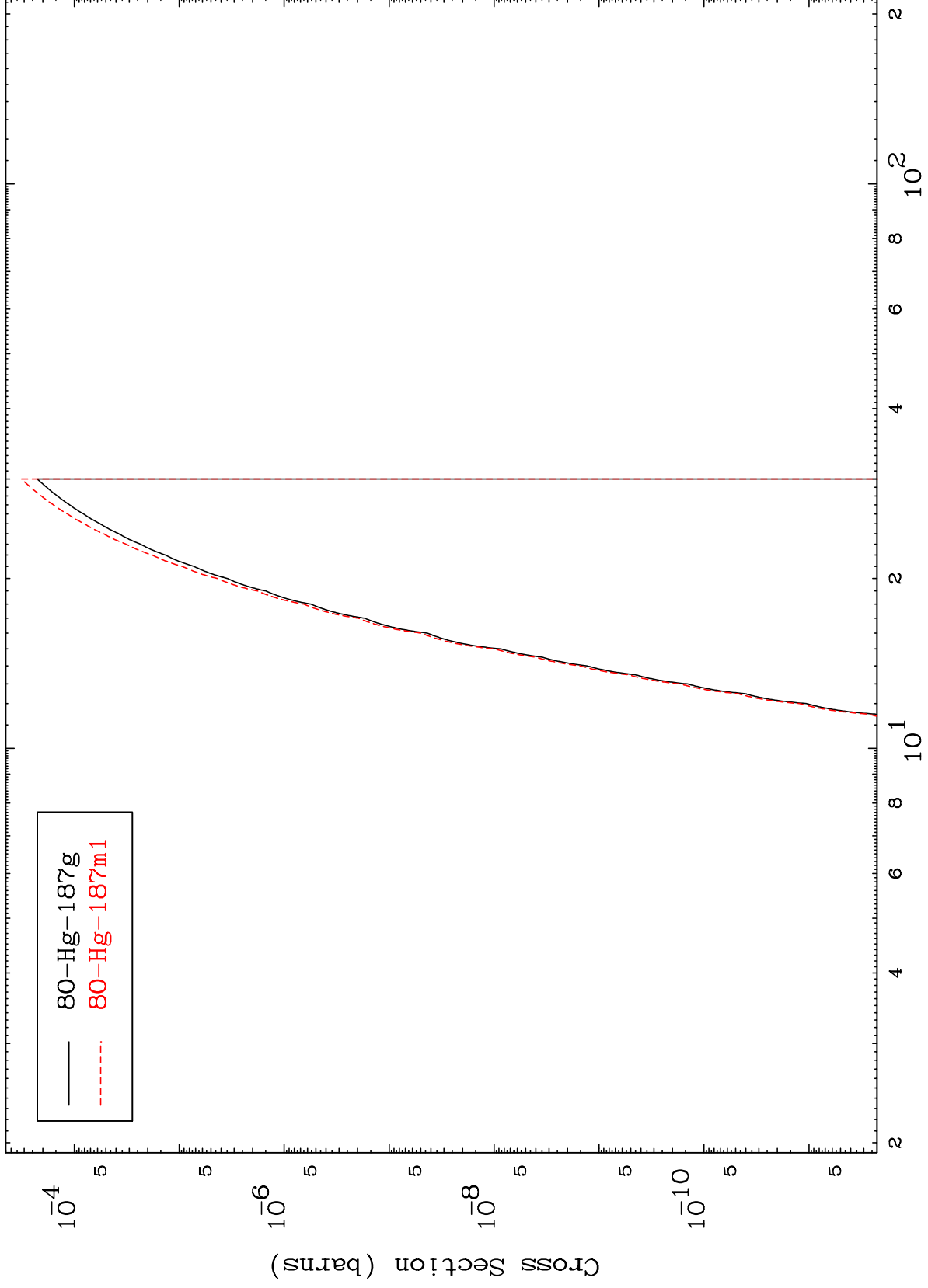
<sup>82</sup>Pb-189m

MAT 8181

(n,p) d

82-Pb-189m

Radionuclide Production Cross Section



36

Incident Energy (MeV)

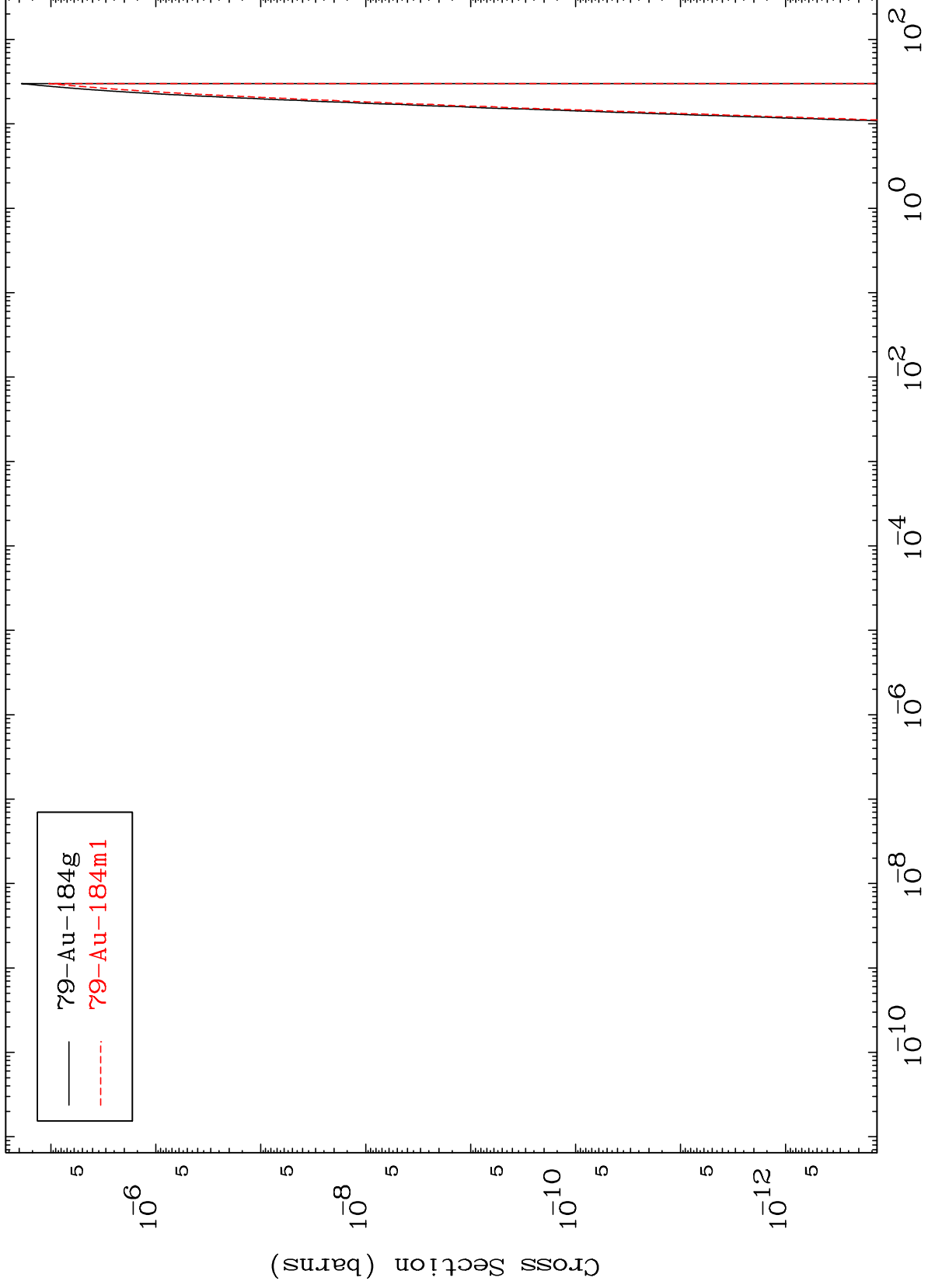
82-Pb-189m

MAT 8181

(n,d)  $\alpha$

82-Pb-189m

Radionuclide Production Cross Section



79-Au-184g  
79-Au-184m1