

Program EVALPLOT
(Version 2015-2)

by

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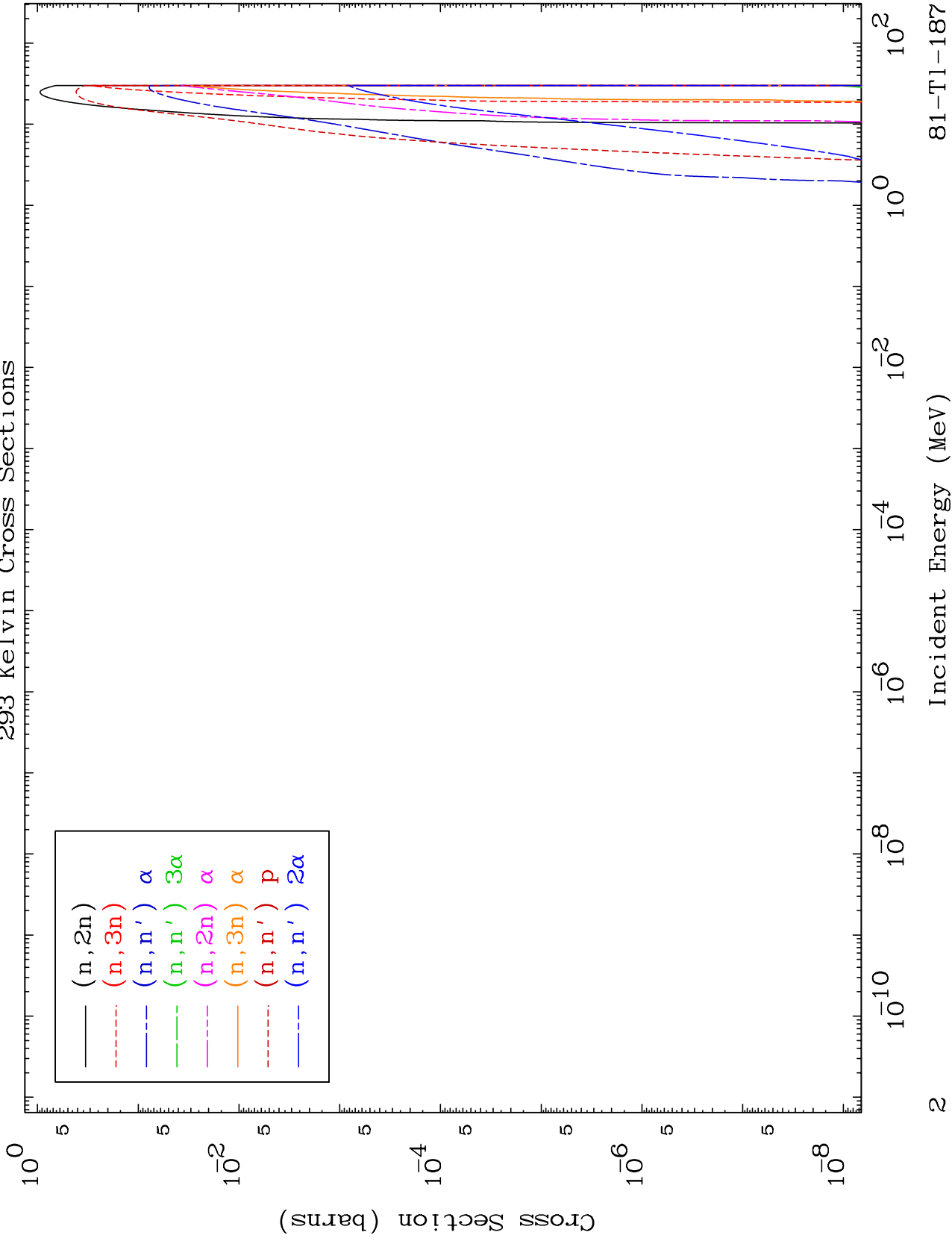
E.Mail:redcullen1@comcast.net
Web:home.comcast.net/~redcullen1

Press Mouse Button to Start

MAT 8078

Neutron Production
293 Kelvin Cross Sections

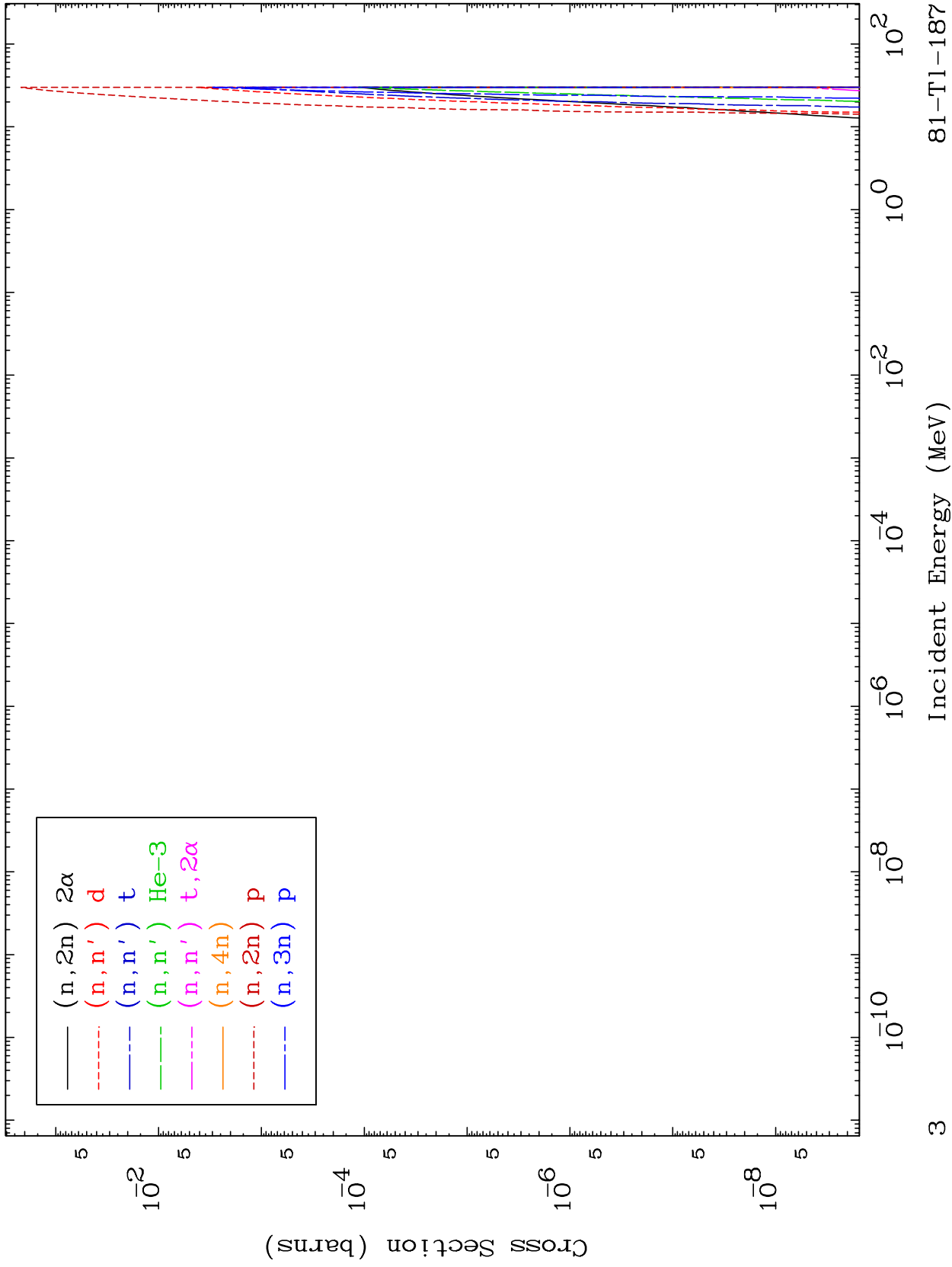
81-Tl-187



MAT 8078

Neutron Production
293 Kelvin Cross Sections

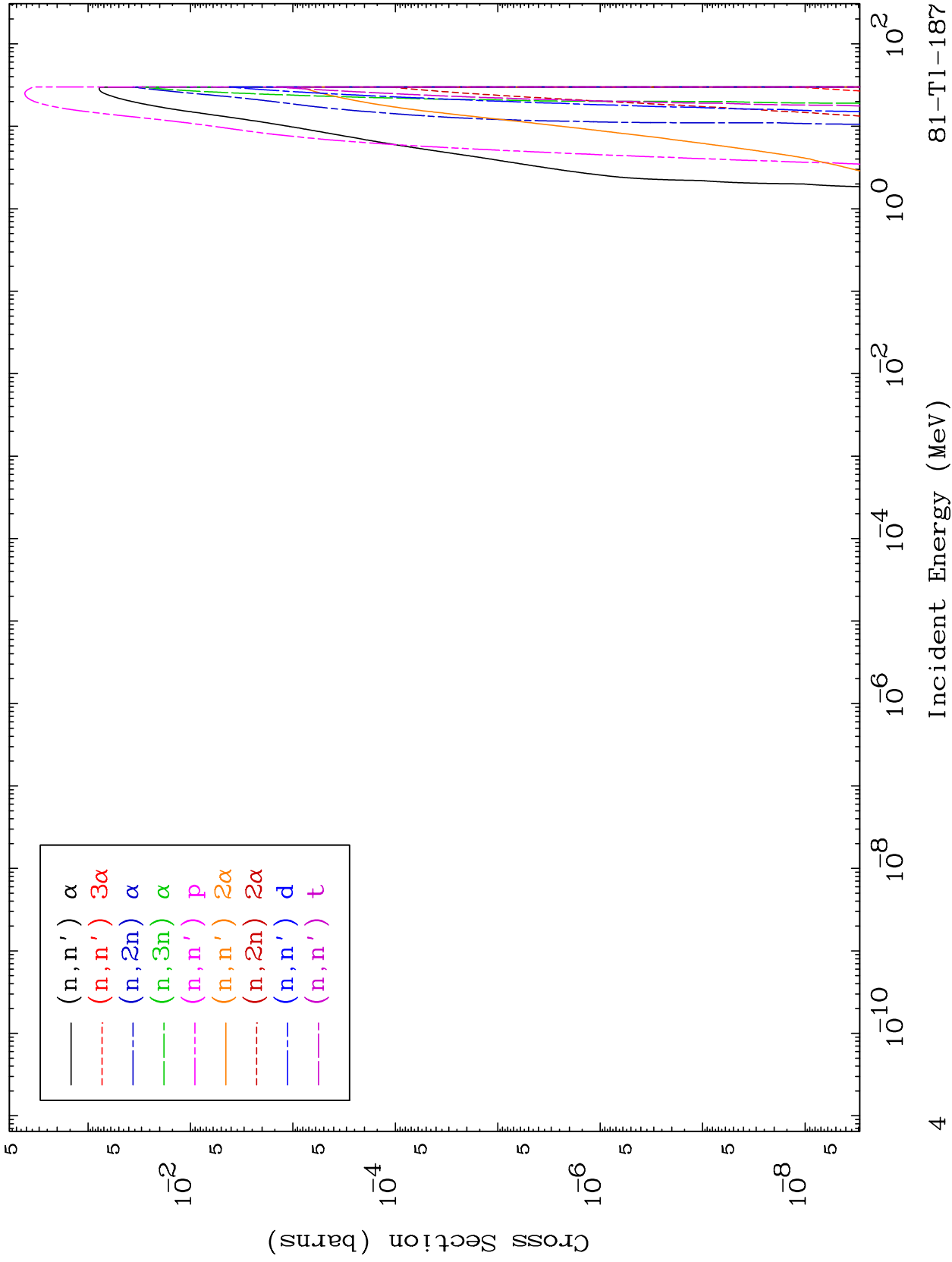
81-Tl-187



MAT 8078

Charged Particle
293 Kelvin Cross Sections

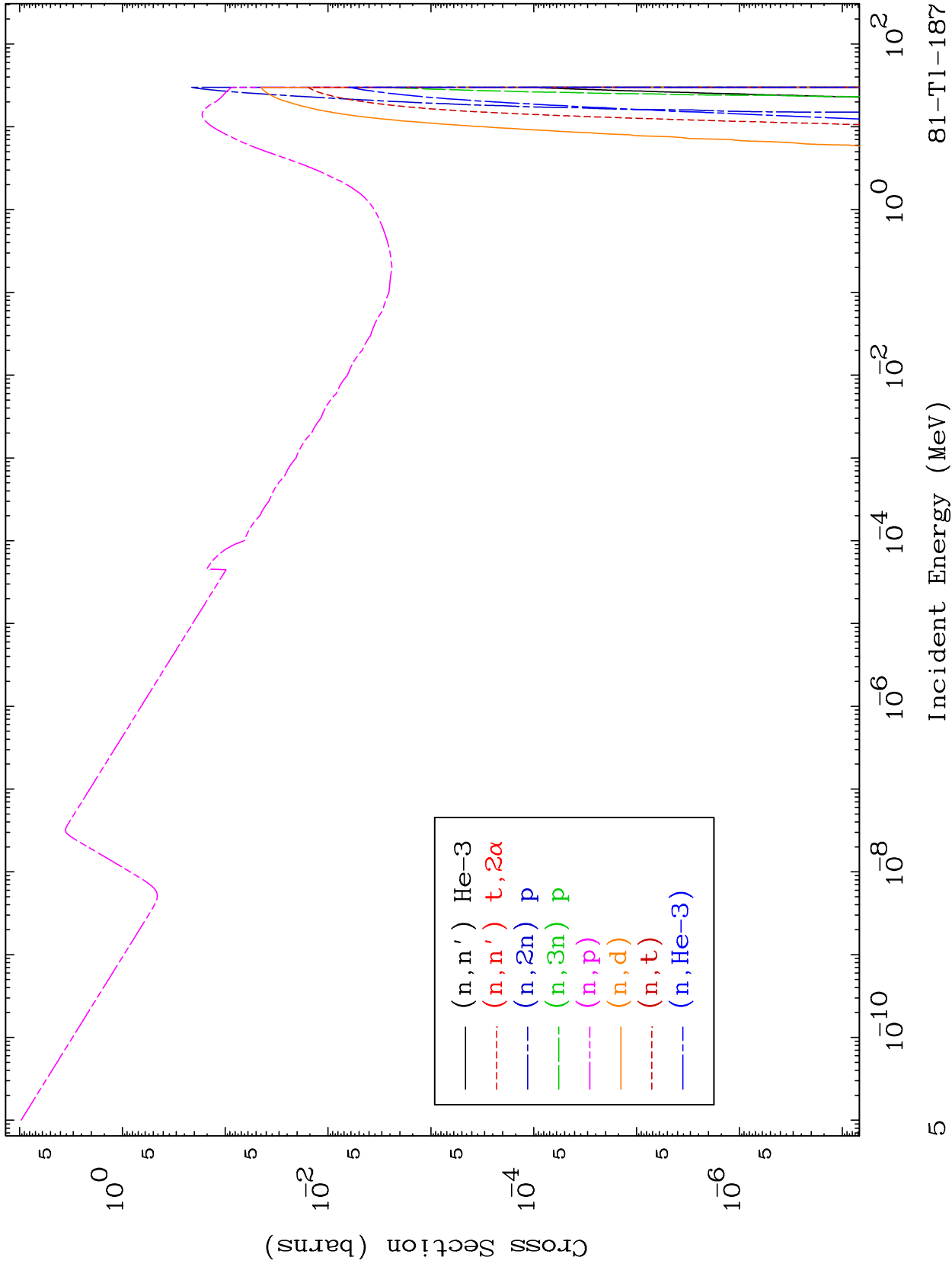
81-Tl-187



MAT 8078

Charged Particle
293 Kelvin Cross Sections

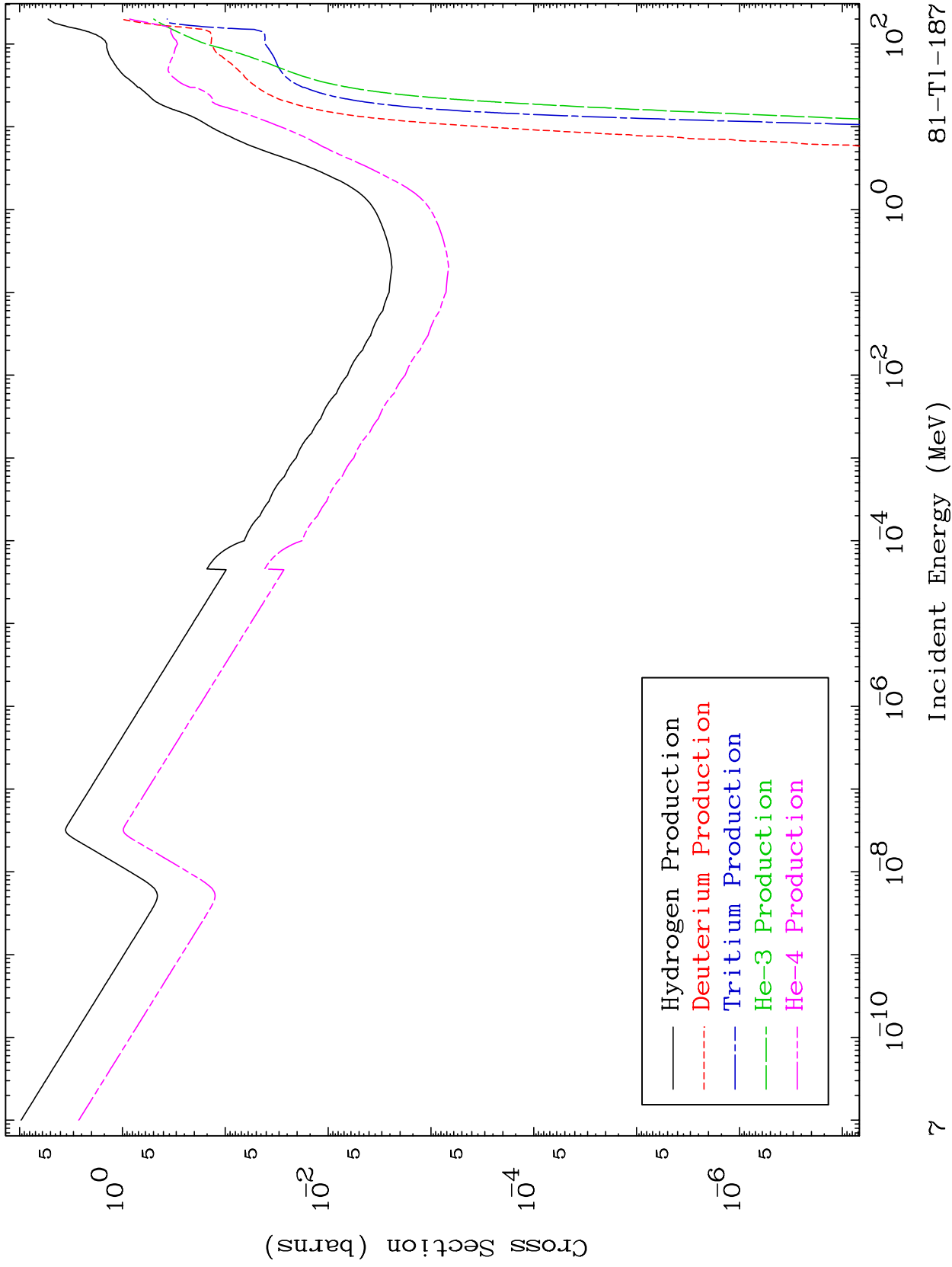
81-Tl-187



MAT 8078

Particle Production
293 Kelvin Cross Sections

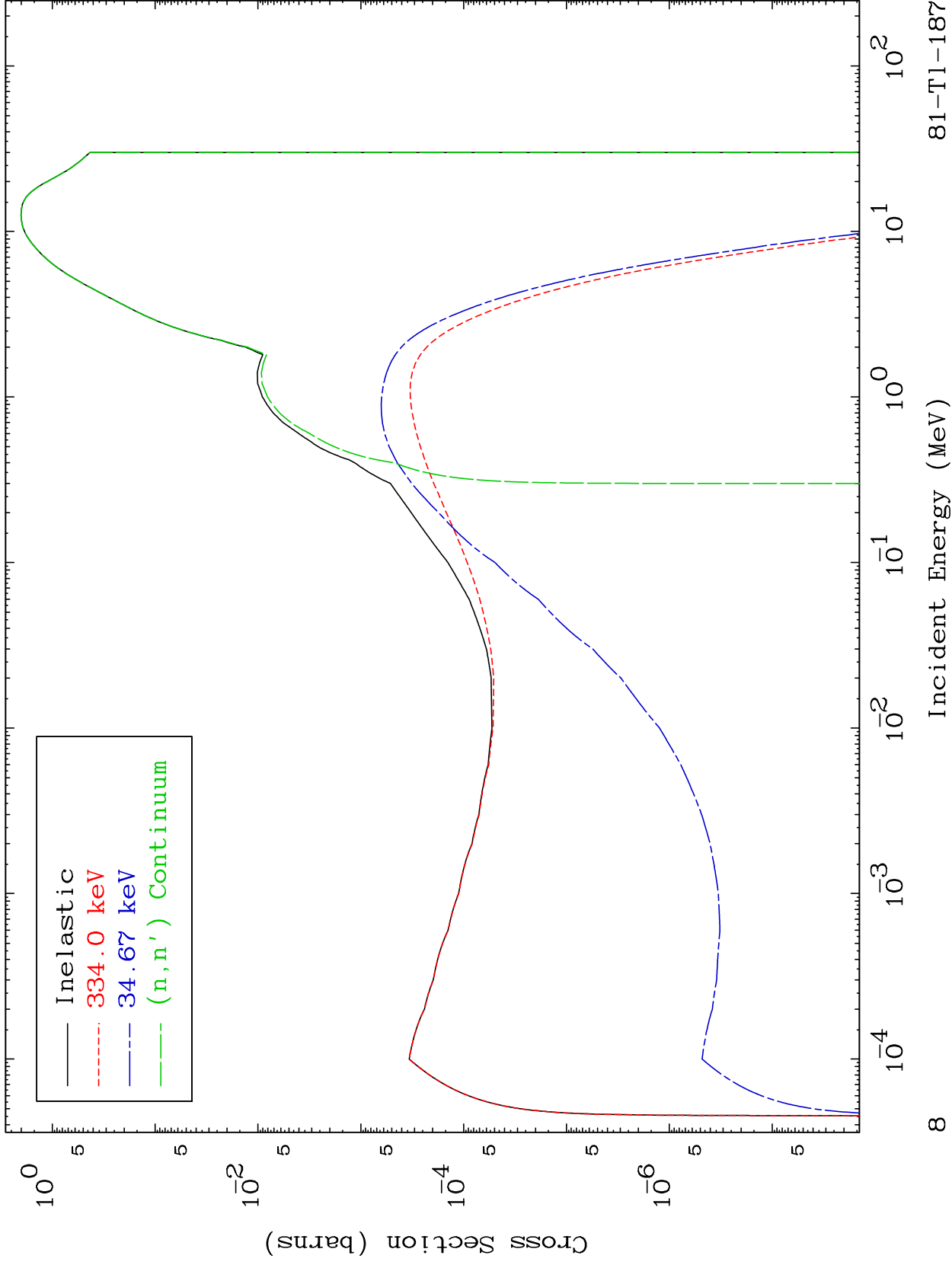
81-T1-187

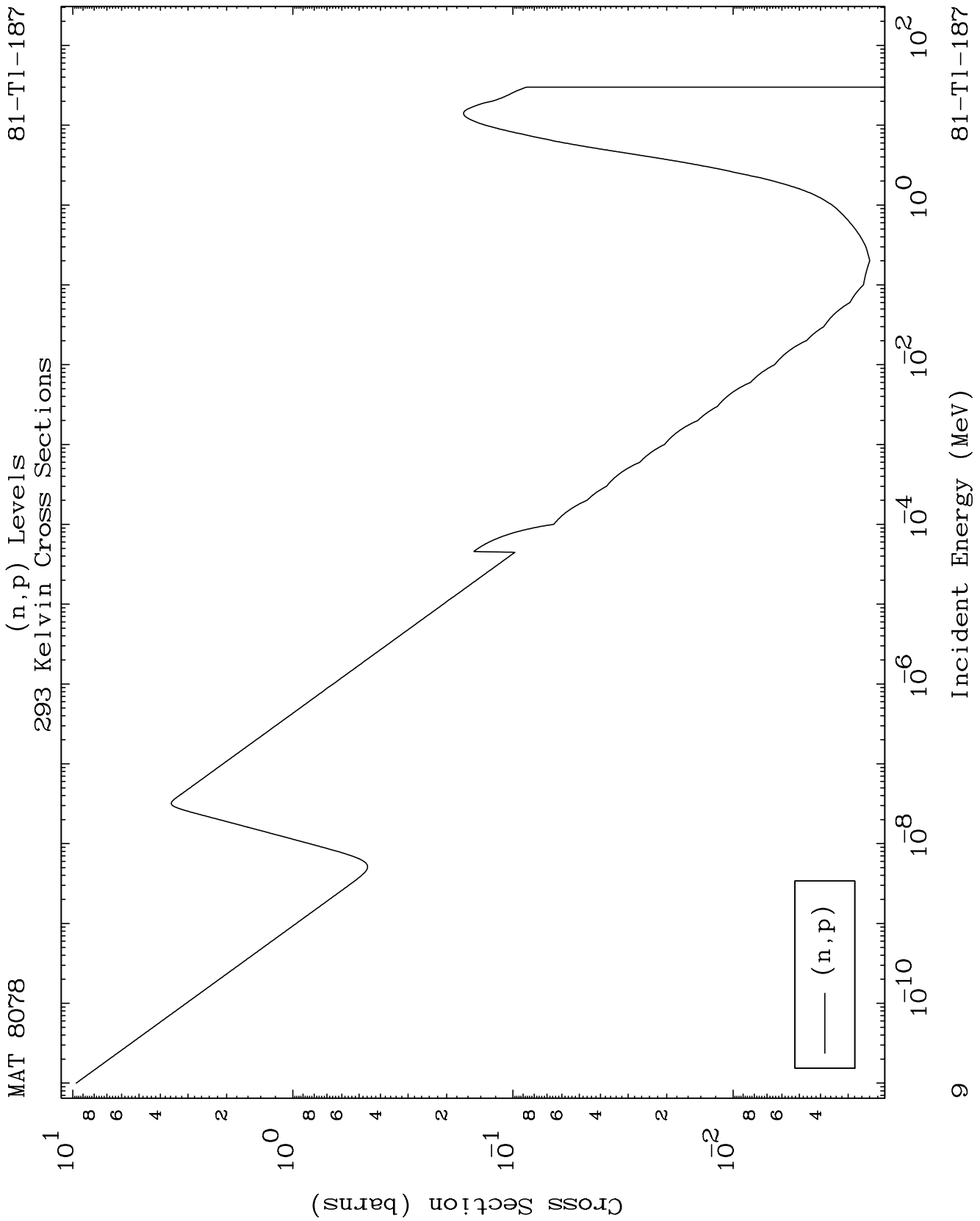


MAT 8078

(n,n') Level
293 Kelvin Cross Sections

81-Tl-187

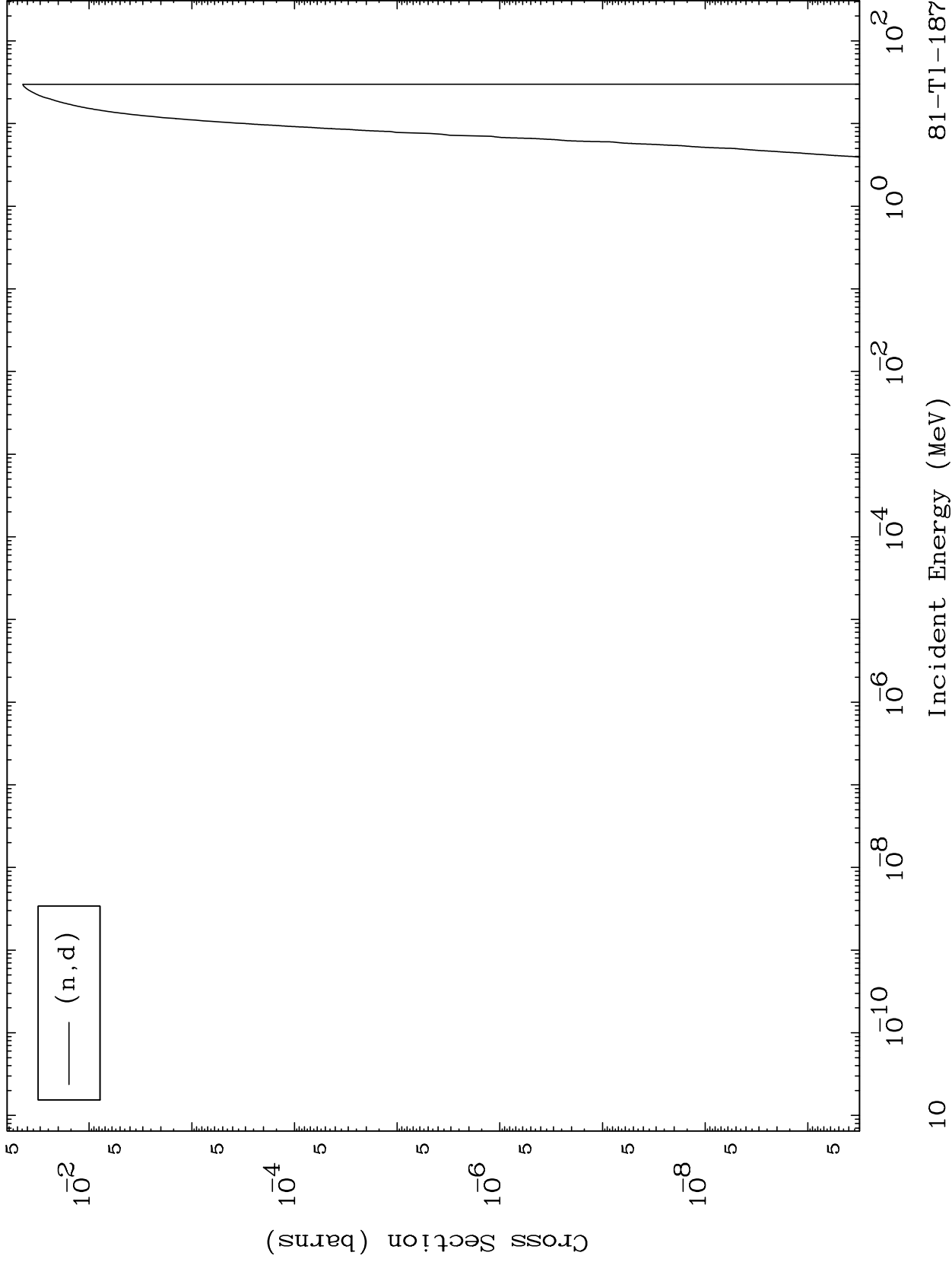




MAT 8078

(n,d) Levels
293 Kelvin Cross Sections

81-Tl-187



10

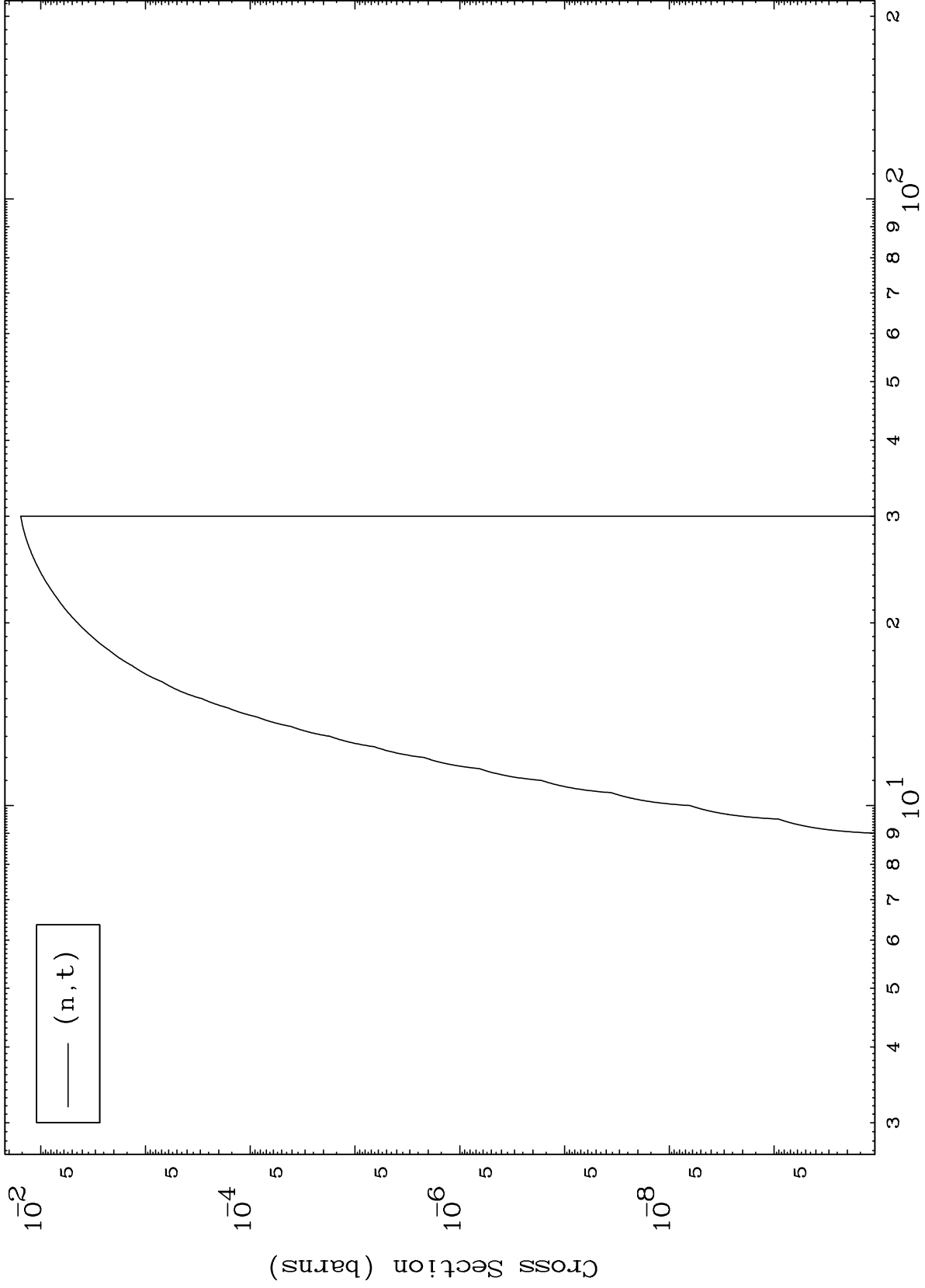
Incident Energy (MeV)

81-Tl-187

MAT 8078

(n,t) Levels
293 Kelvin Cross Sections

81-Tl-187



11

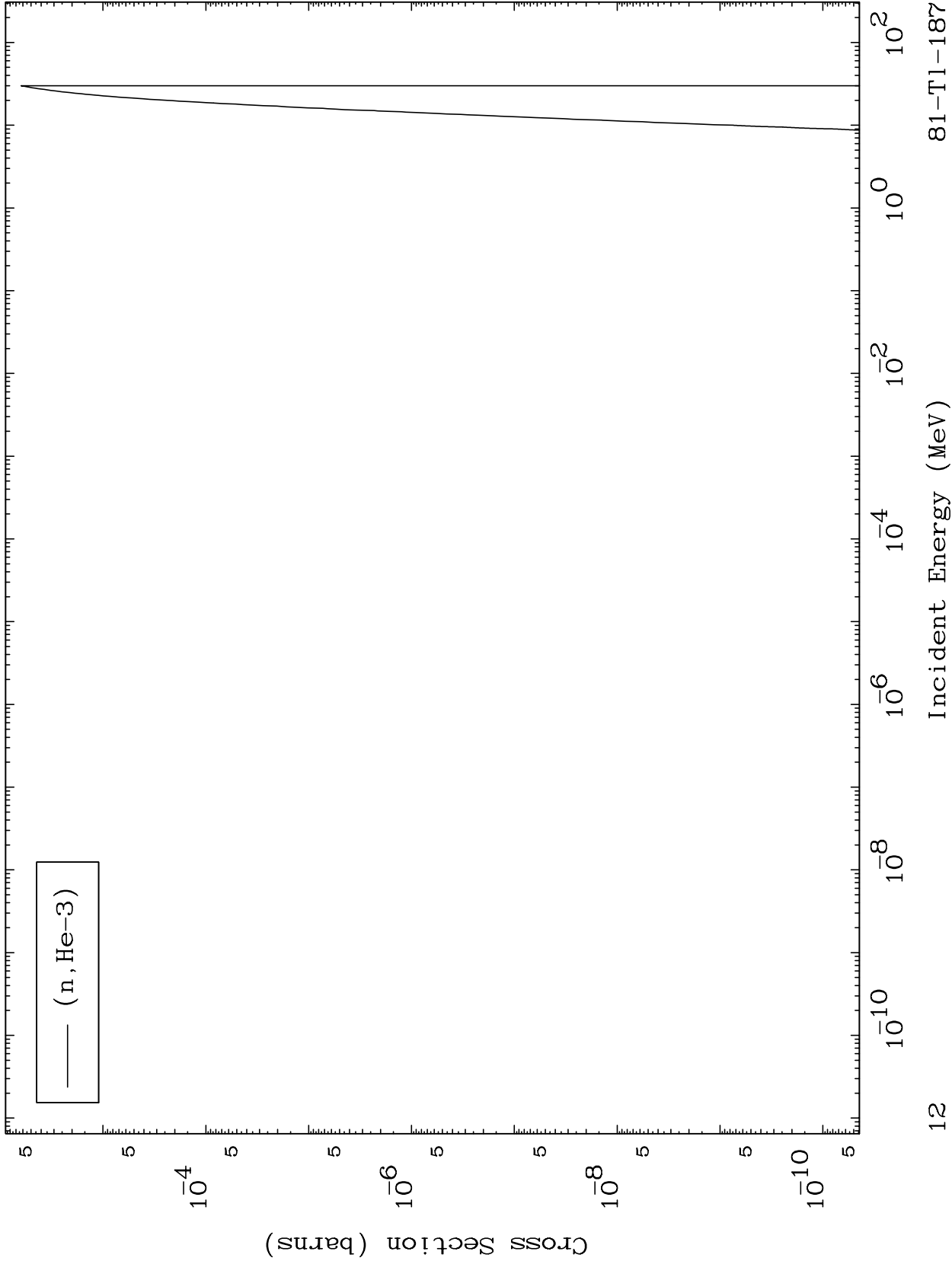
Incident Energy (MeV)

81-Tl-187

MAT 8078

(n,He3) Levels
293 Kelvin Cross Sections

81-Tl-187



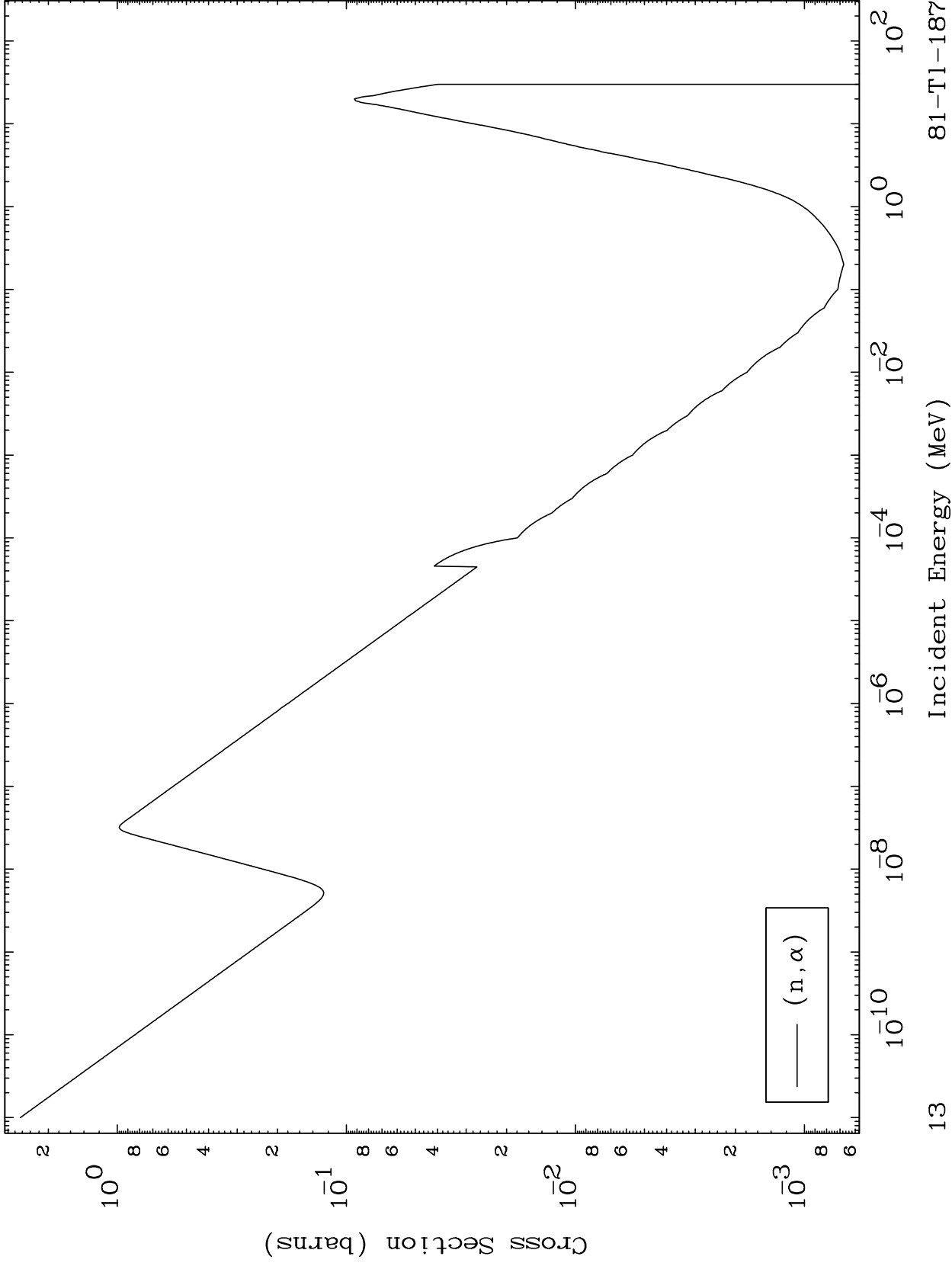
12

81-Tl-187

MAT 8078

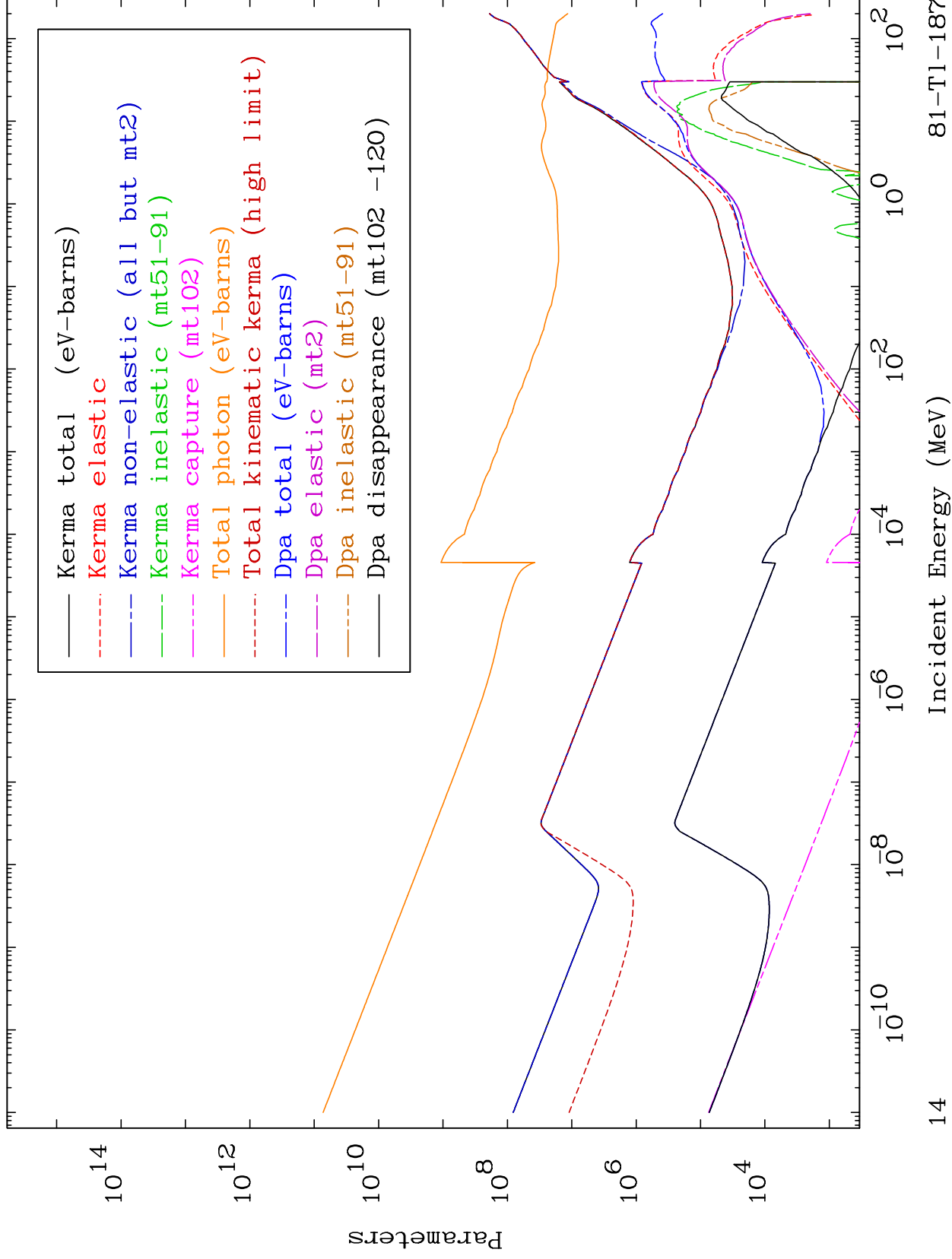
(n,α) Levels
293 Kelvin Cross Sections

81-Tl-187



13

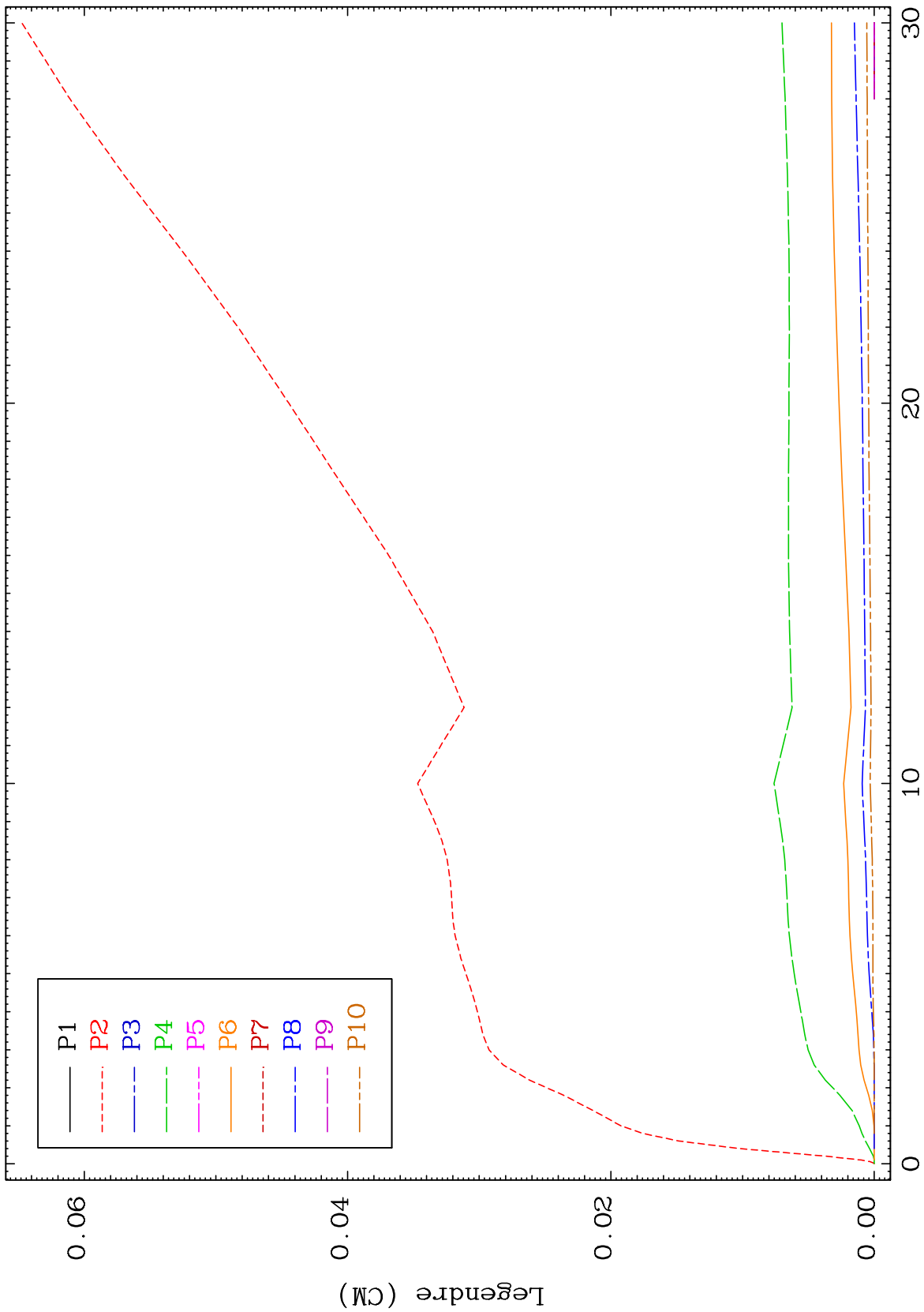
81-Tl-187



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Elastic
Legendre Coefficients

81-T1-187



15

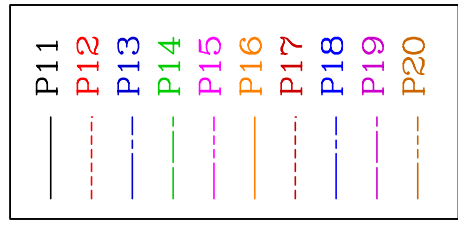
Incident Energy (MeV)

81-T1-187

MAT 8078

Elastic Legendre Coefficients

81-Tl-187



$\times 10^{-4}$

Legendre (CM)



16

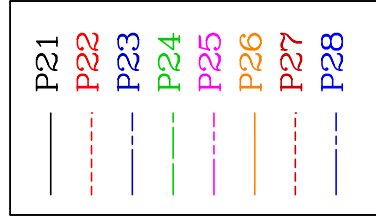
Incident Energy (MeV)

81-Tl-187

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Elastic Legendre Coefficients

81-T1-187



$\times 10^{-6}$
1.5

Legendre (CM)

1.0

0.5

0.0

15

20

25

30

17

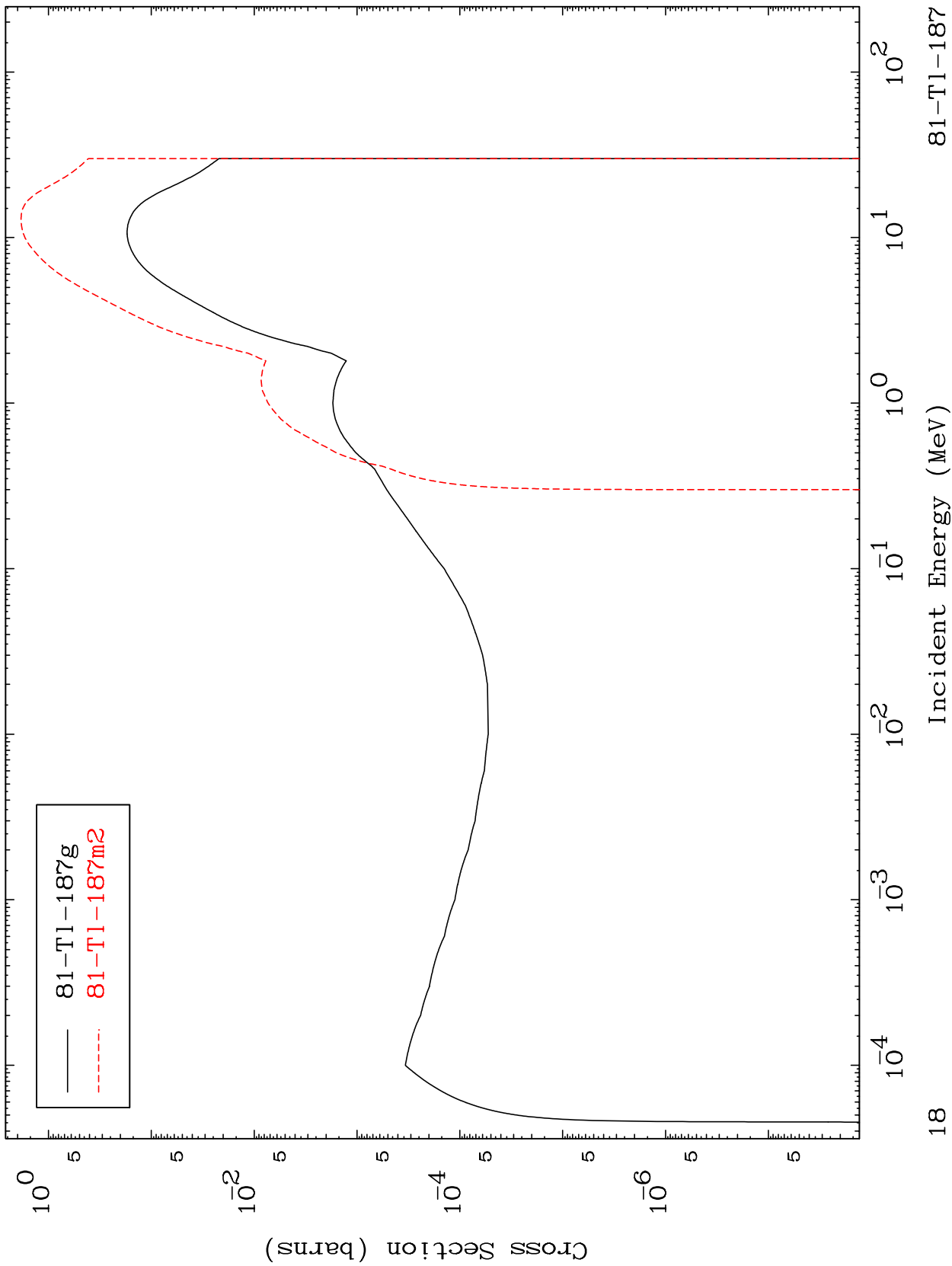
Incident Energy (MeV)

81-T1-187

MAT 8078

81-Tl-187

Inelastic
Radionuclide Production Cross Section

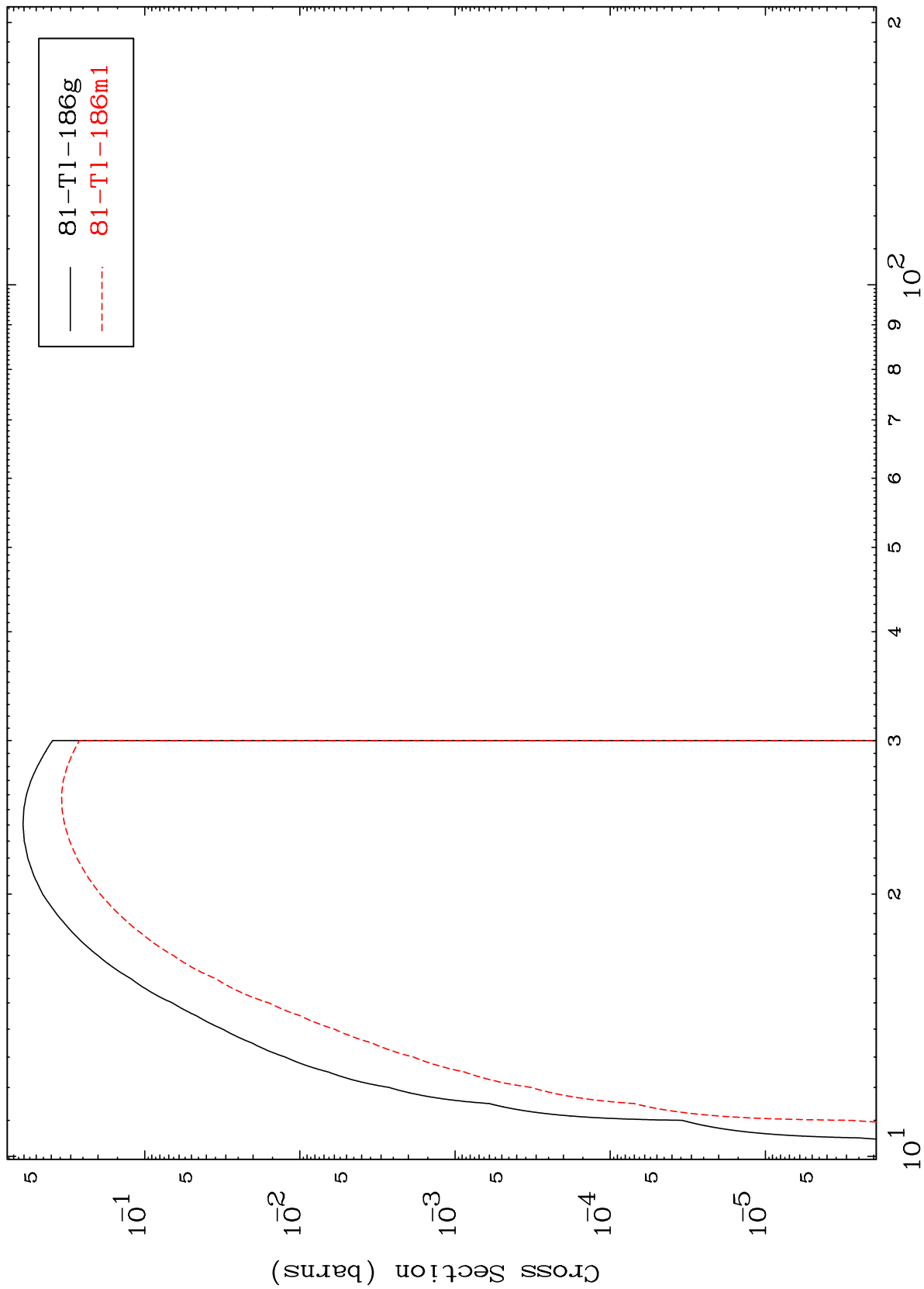


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81-Tl-187

(n,2n)

Radionuclide Production Cross Section



Incident Energy (MeV)

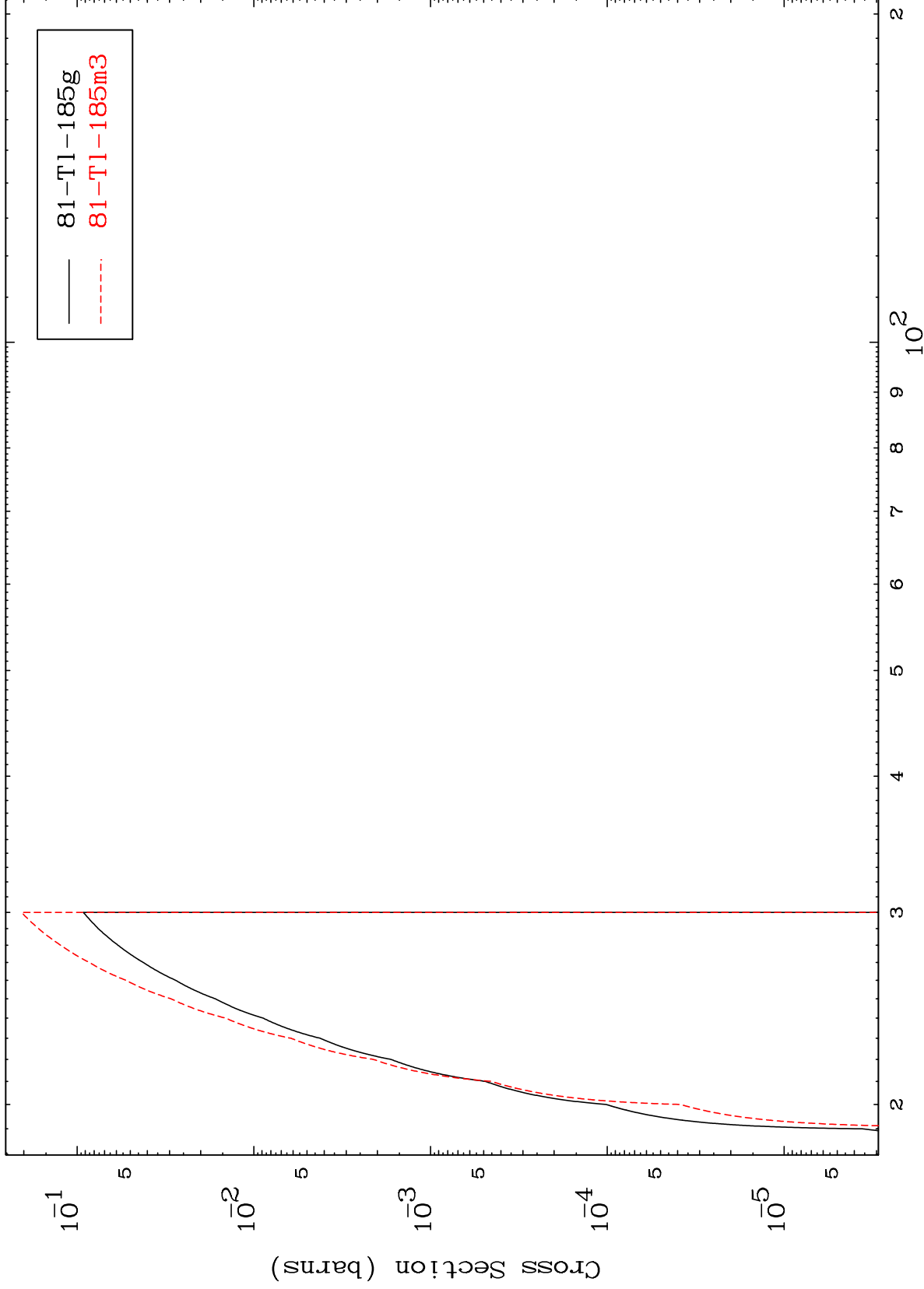
81-Tl-187

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(n,3n)

81-Tl-187

Radionuclide Production Cross Section



20

Incident Energy (MeV)

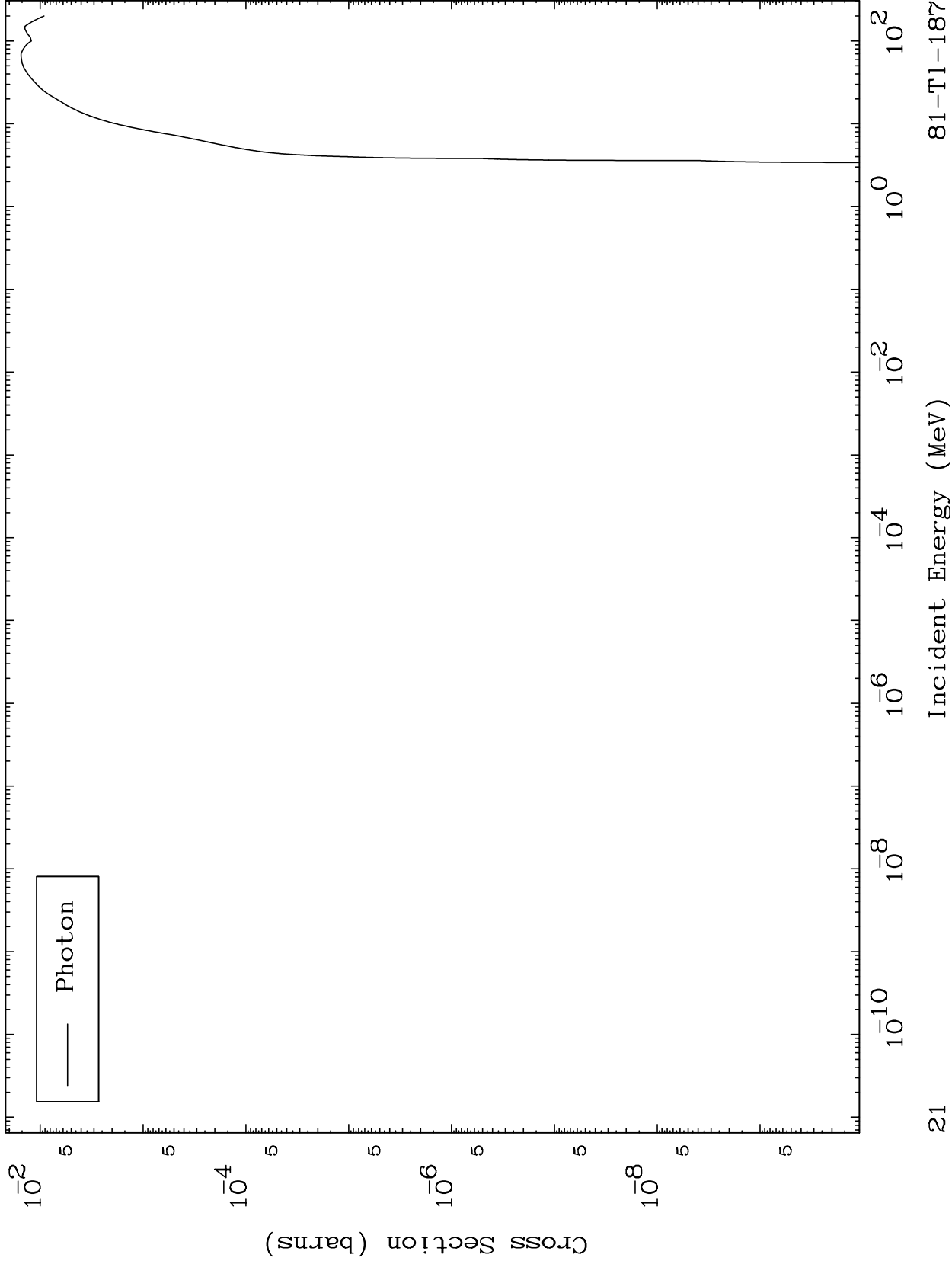
81-Tl-187

MAT 8078

Fission

81-Tl-187

Radionuclide Production Cross Section

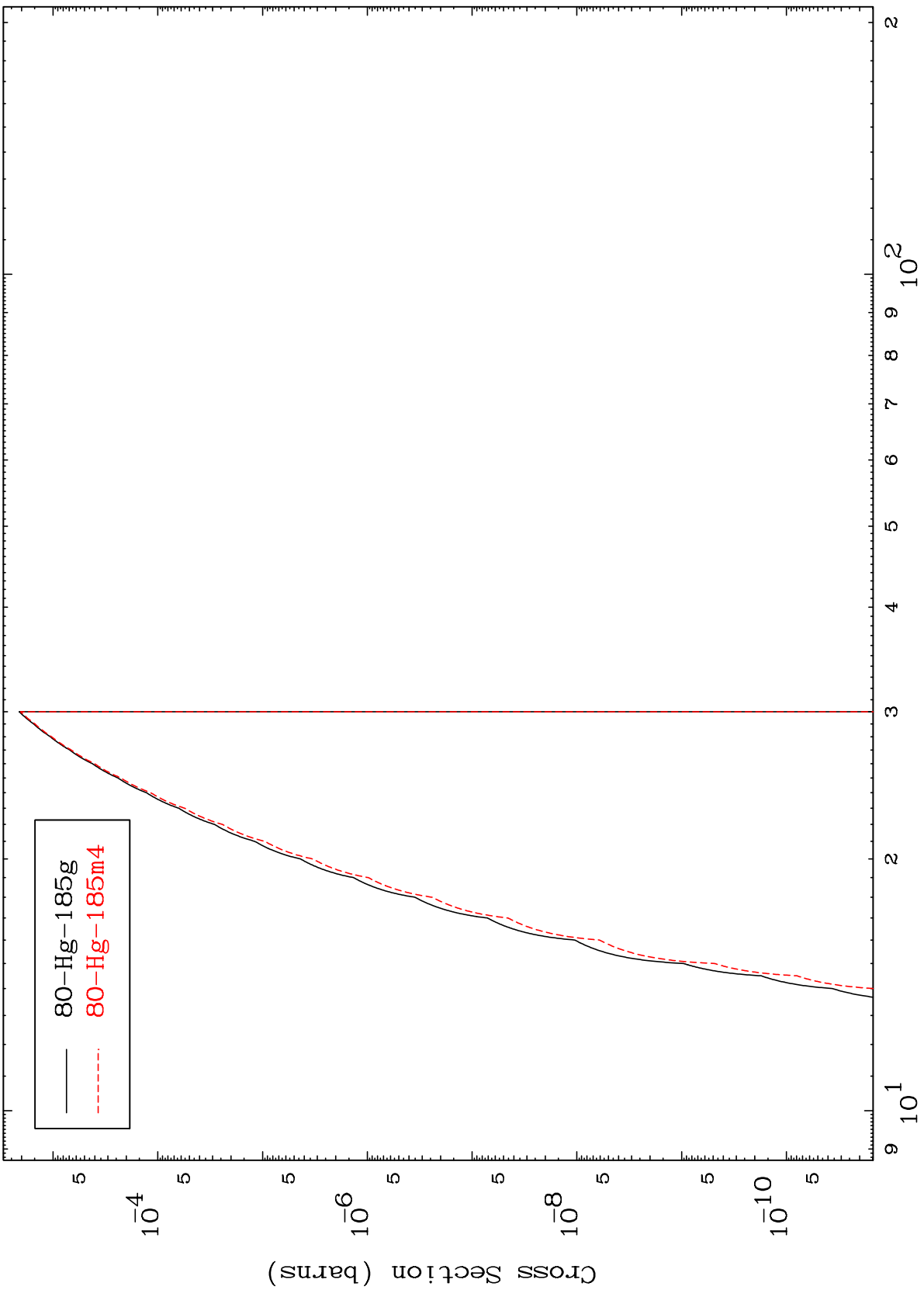


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(n,n') d

81-Tl-187

Radionuclide Production Cross Section



80-Hg-185g
80-Hg-185m4

22

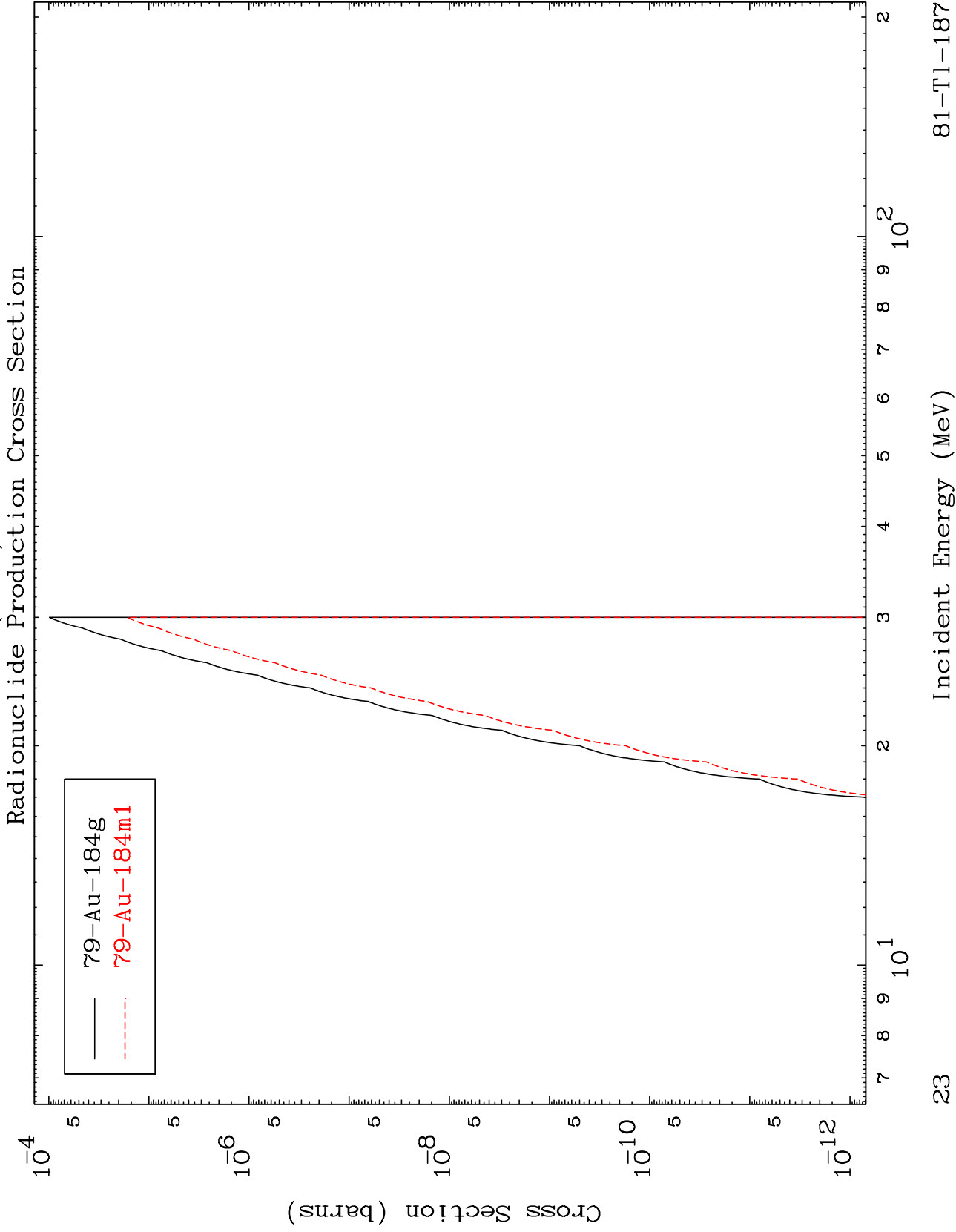
Incident Energy (MeV)

81-Tl-187

MAT 8078

(n,n') He-3

81-Tl-187



23

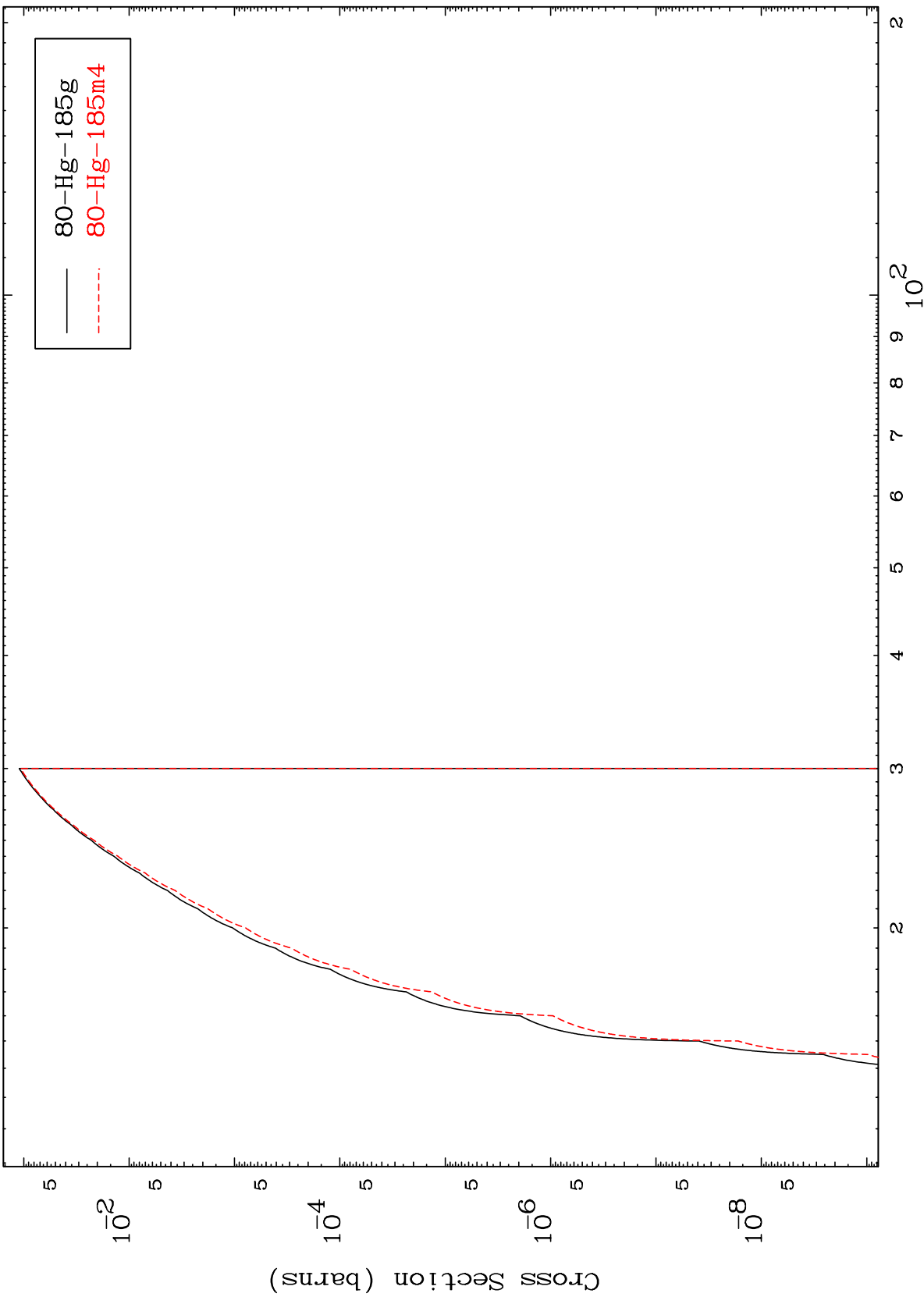
81-Tl-187

MAT 8078

(n,2n) p

81-Tl-187

Radionuclide Production Cross Section



24

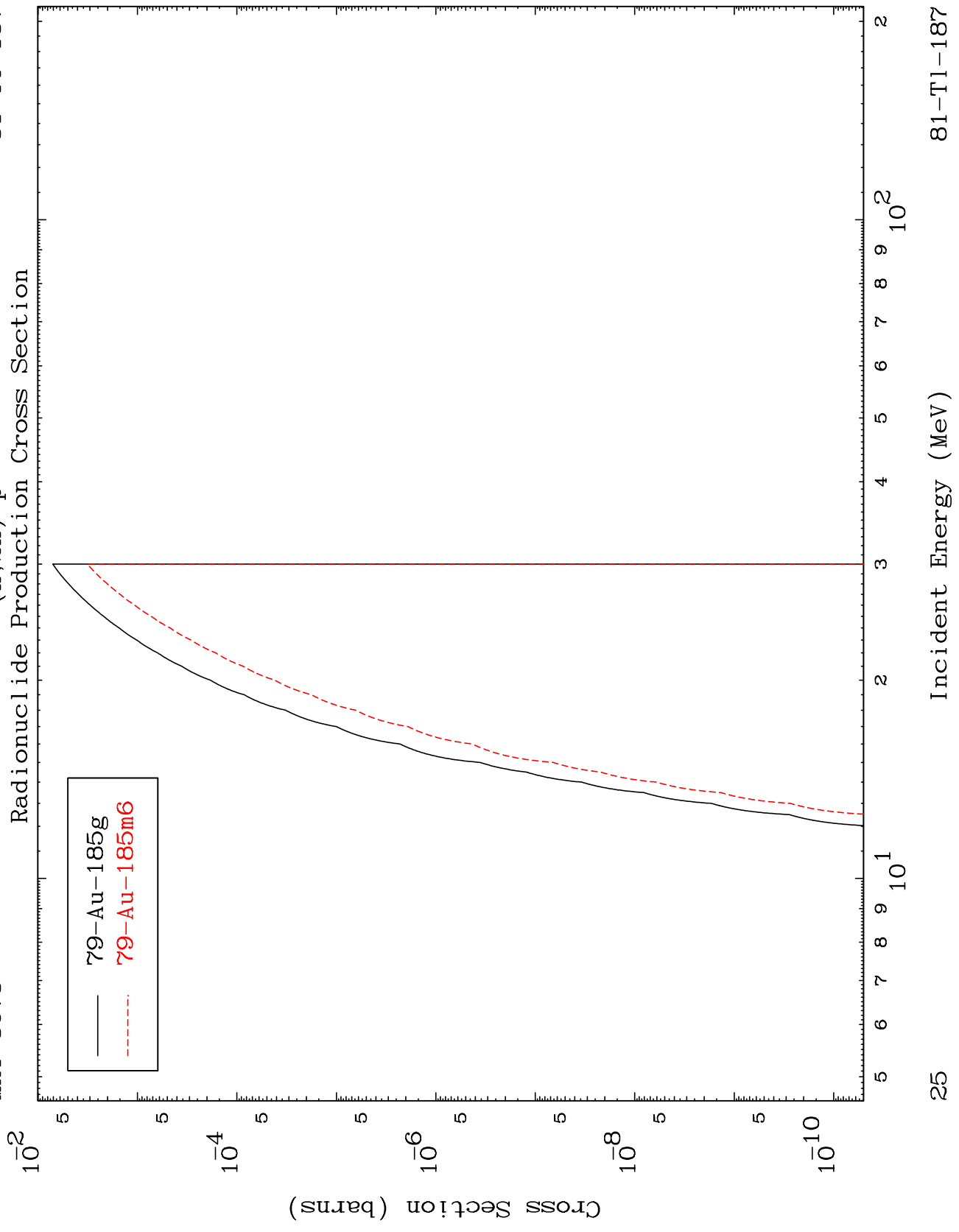
Incident Energy (MeV)

81-Tl-187

MAT 8078

(n,2n) p

81-Tl-187

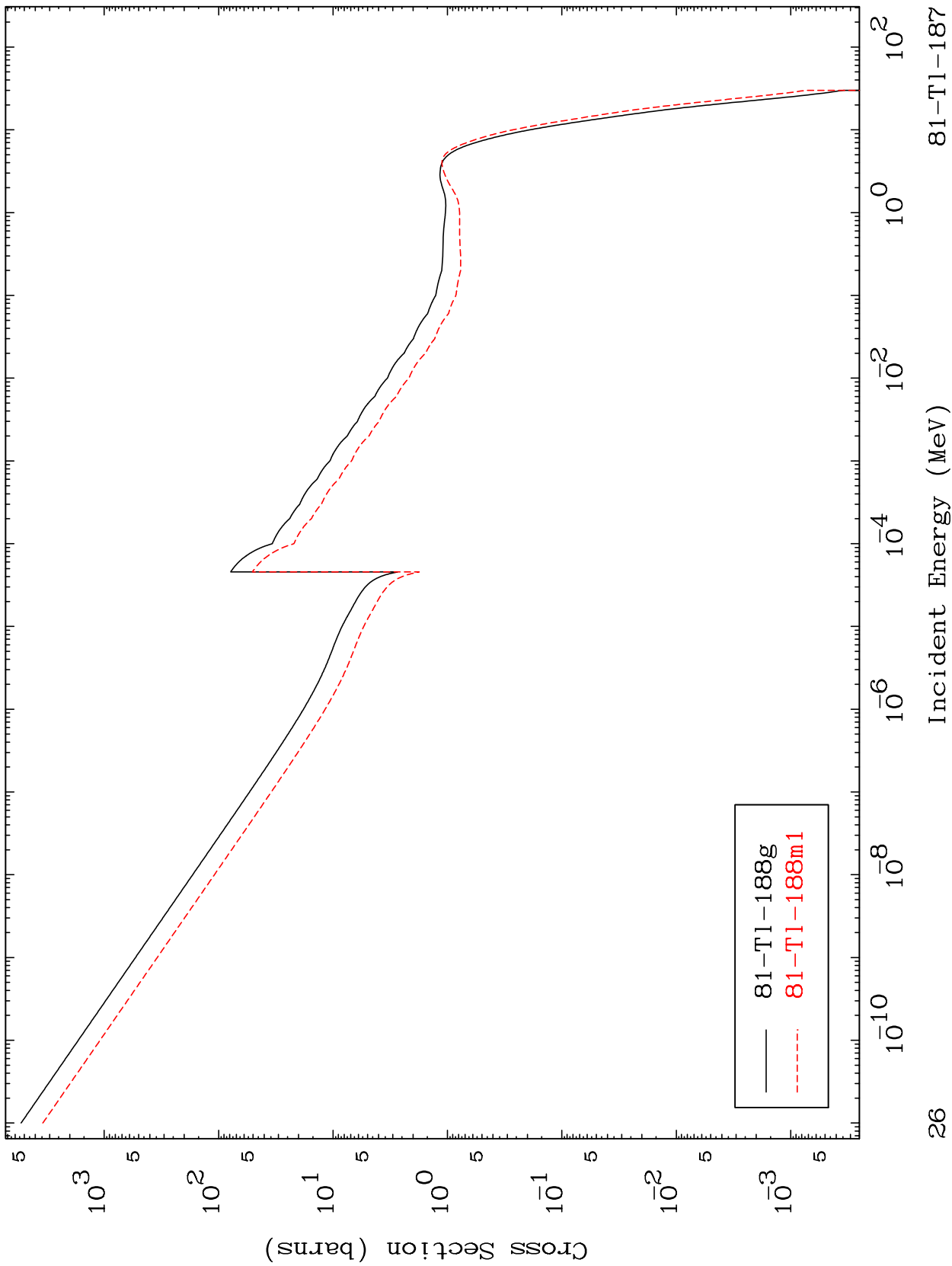


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81-Tl-187

Radionuclide Production Cross Section

(n, γ)

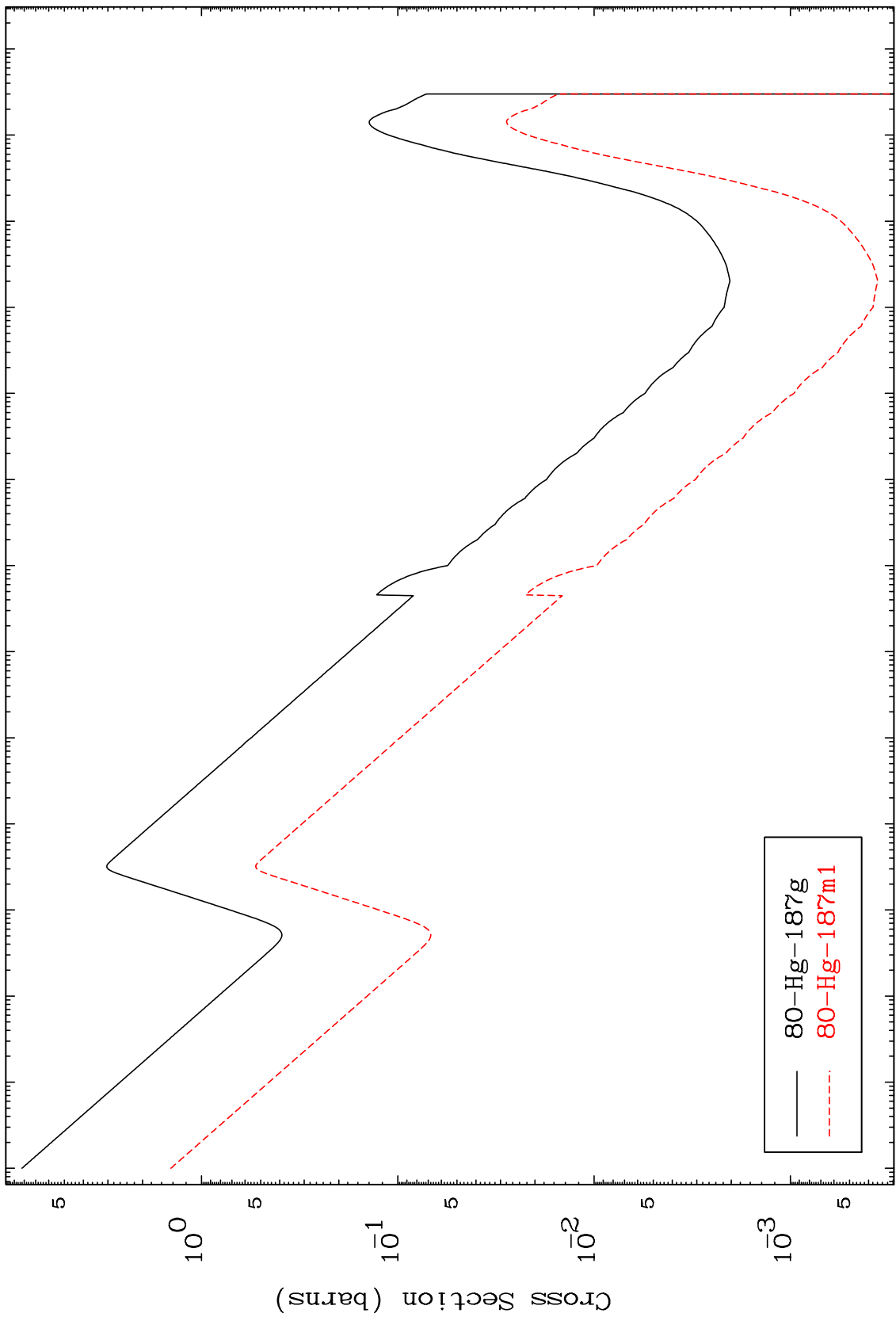


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81-Tl-187

Radionuclide Production Cross Section

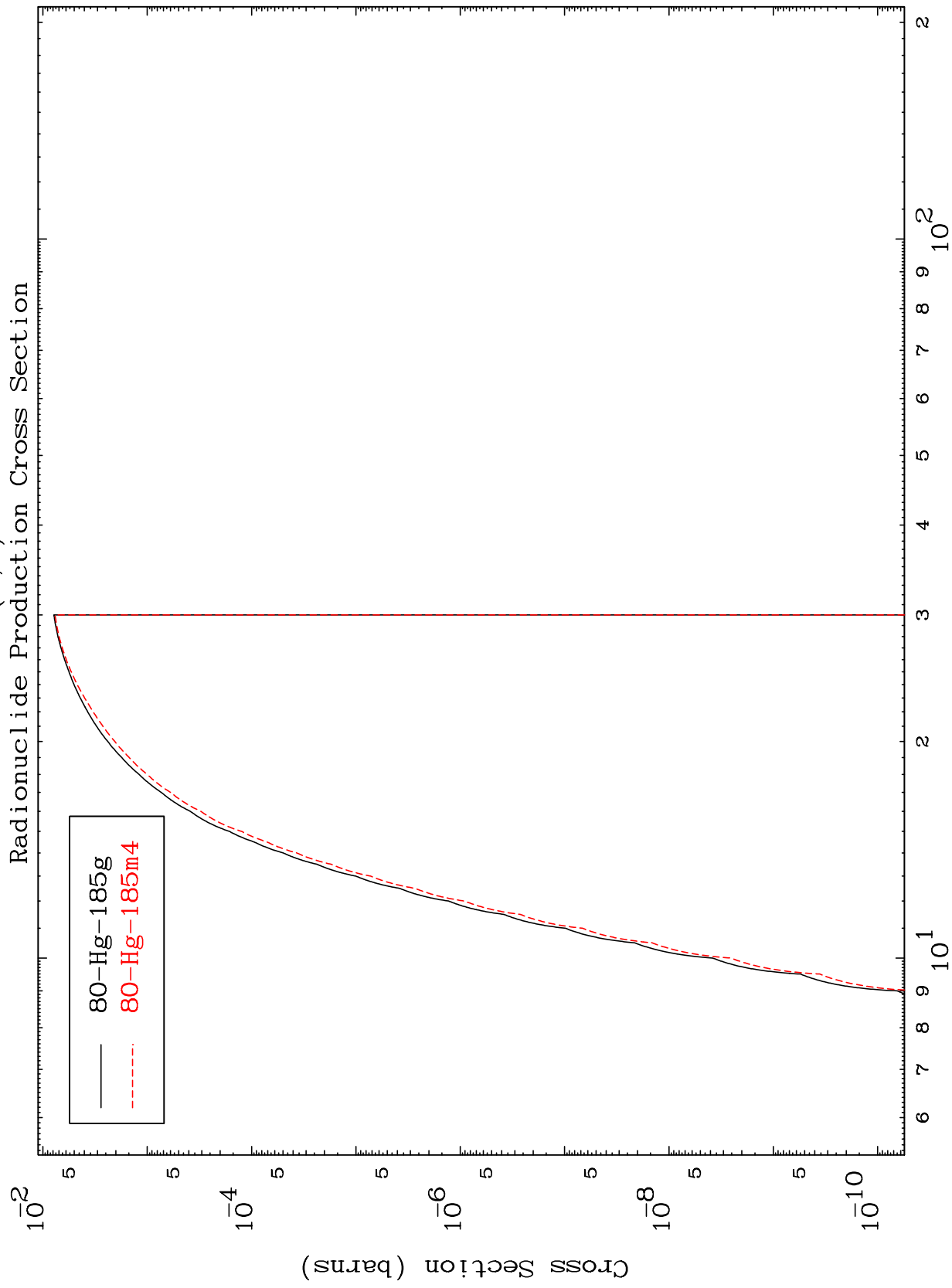
(n,p)



— 80-Hg-187g
- - - 80-Hg-187m1

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81-Tl-187



81-Tl-187

Incident Energy (MeV)

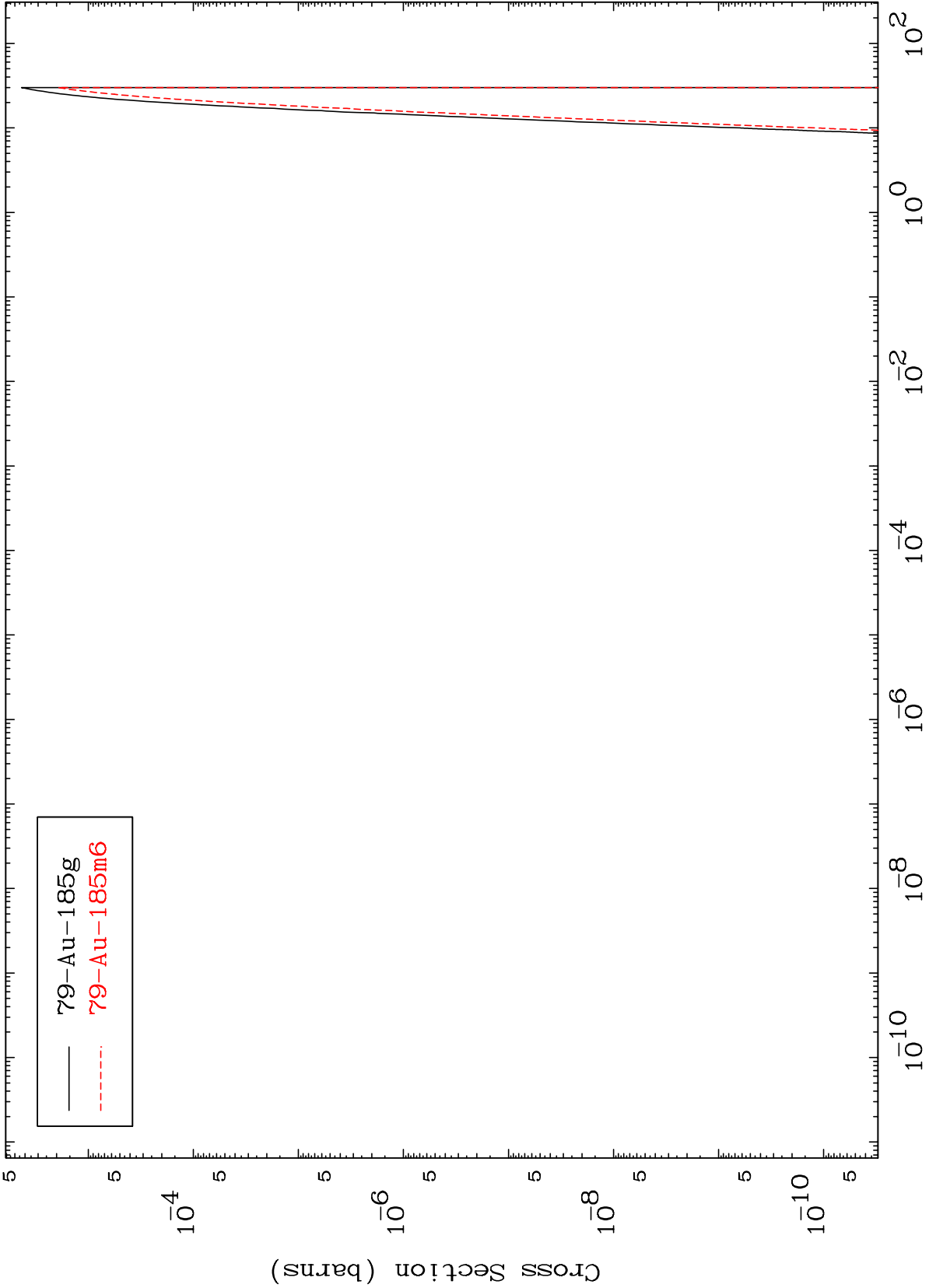
28

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(n,He-3)

81-Tl-187

Radionuclide Production Cross Section



29

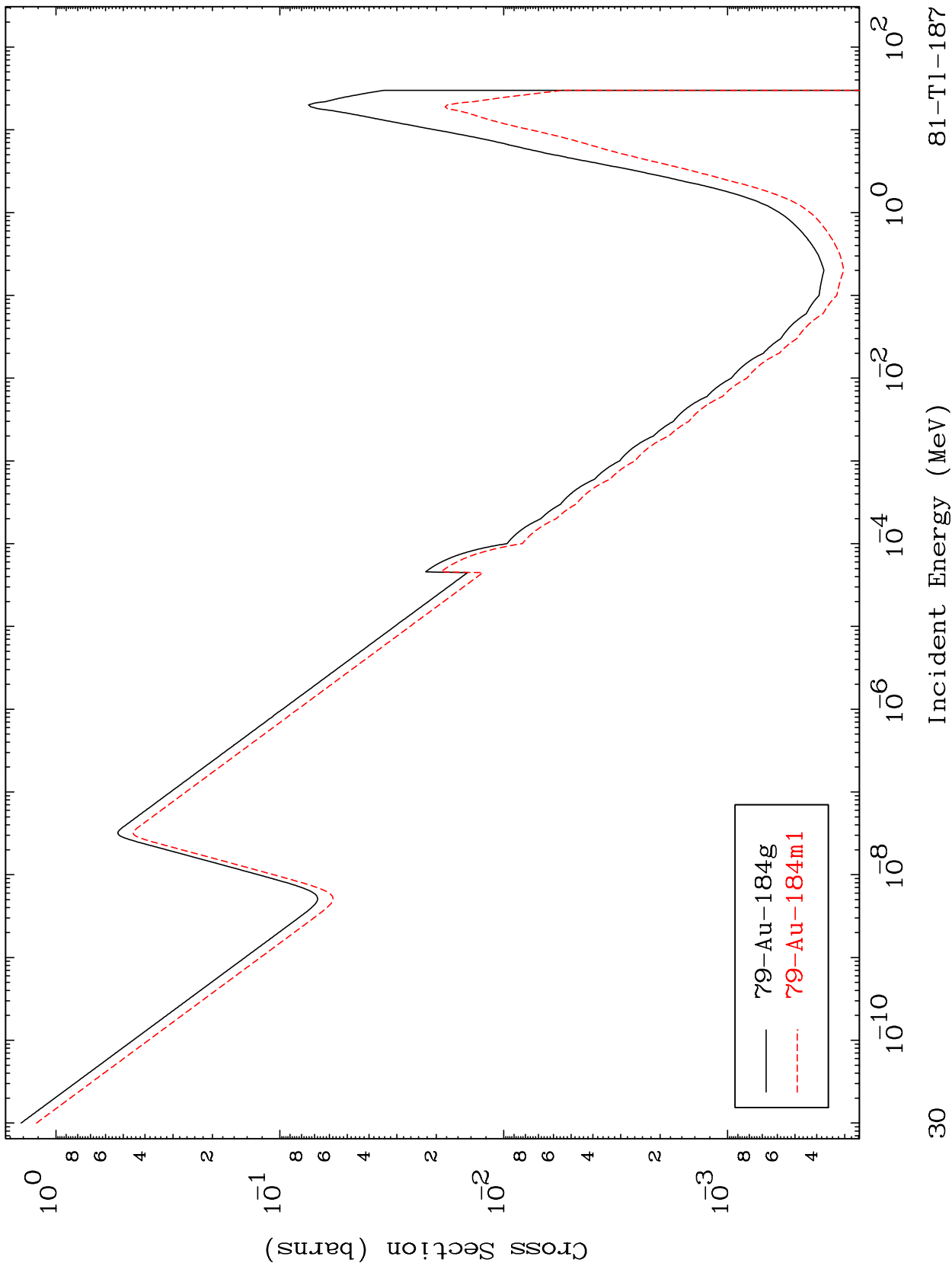
Incident Energy (MeV)

81-Tl-187

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81-Tl-187

(n, α)
Radionuclide Production Cross Section



30

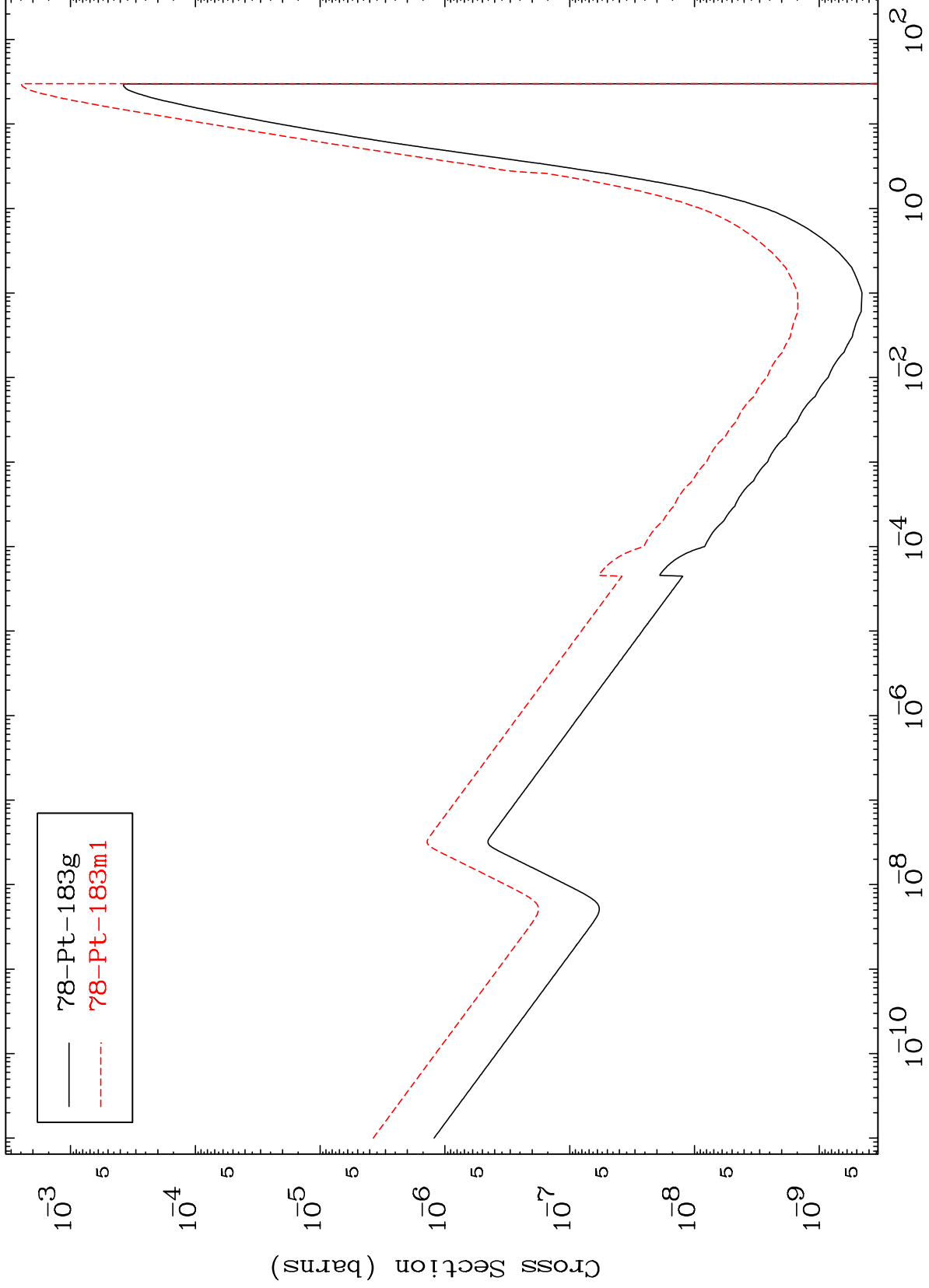
81-Tl-187

MAT 8078

(n,p) α

81-Tl-187

Radionuclide Production Cross Section



31

Incident Energy (MeV)

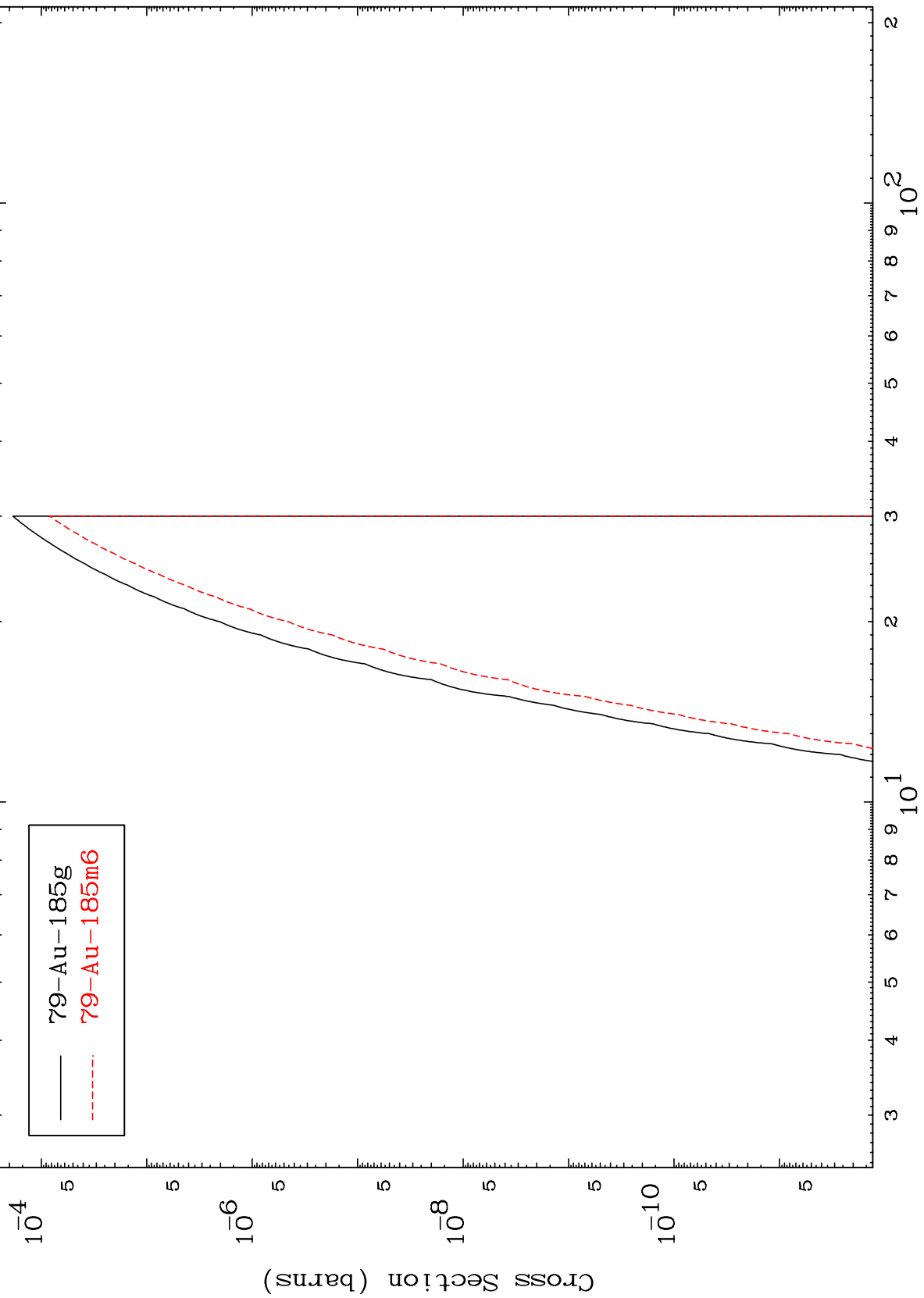
81-Tl-187

MAT 8078

(n,p) d

81-Tl-187

Radionuclide Production Cross Section

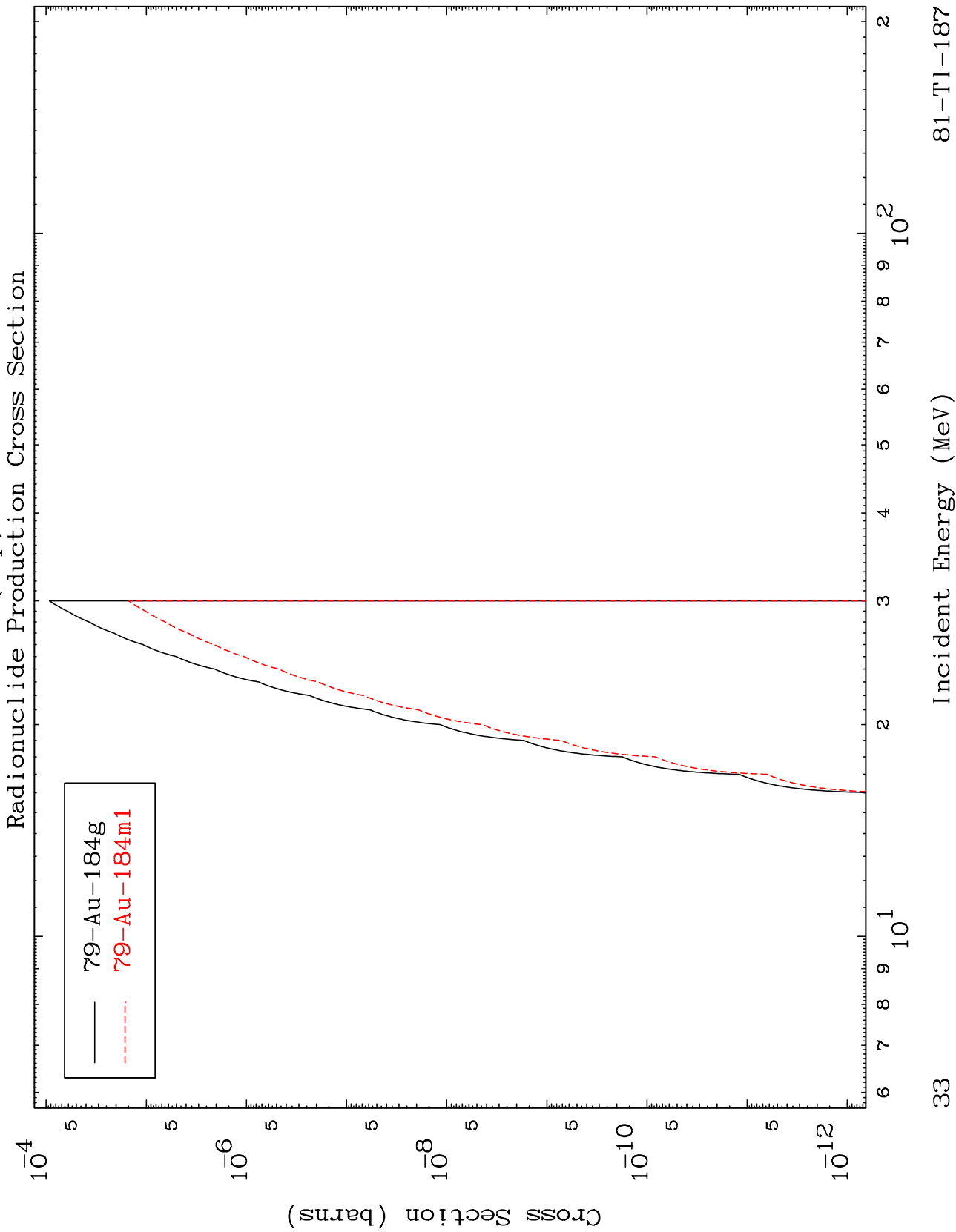


— 79-Au-185g
- - - 79-Au-185m6

MAT 8078

(n,p) t

81-Tl-187



33