

Program EVALPLOT
(Version 2015-2)

by

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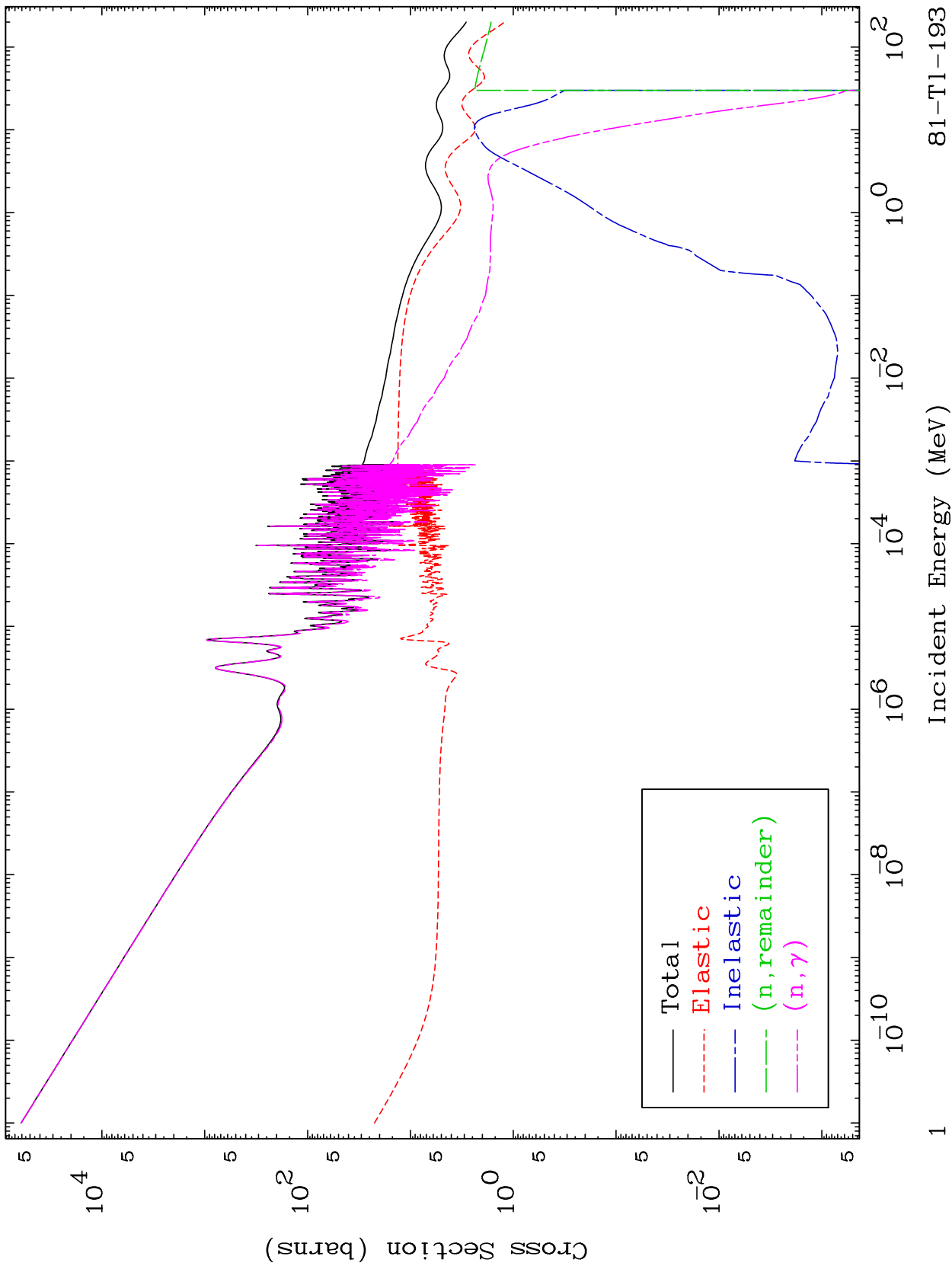
Press Mouse Button to Start

MAT 8096

Major

293 Kelvin Cross Sections

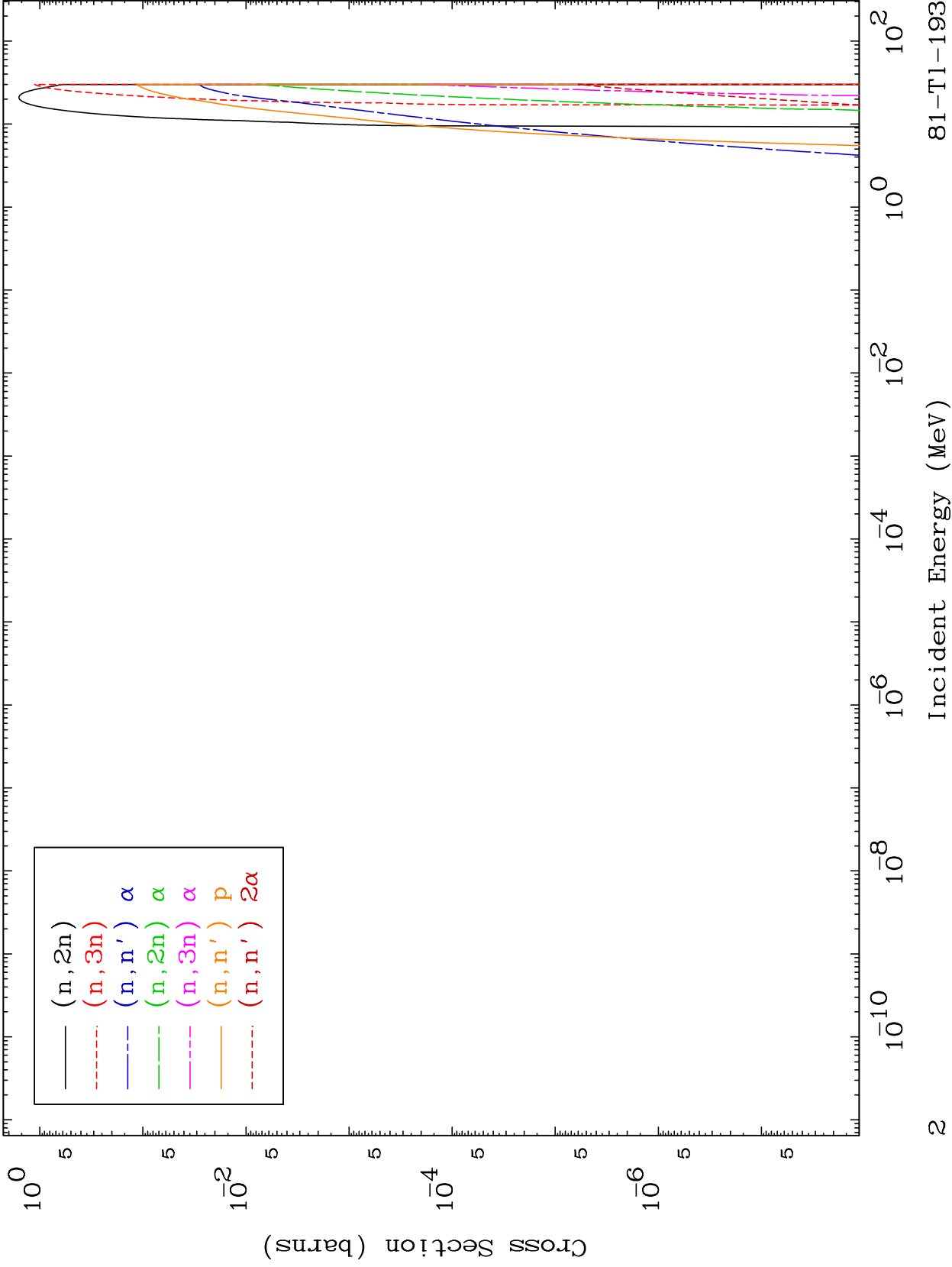
81-Tl-193

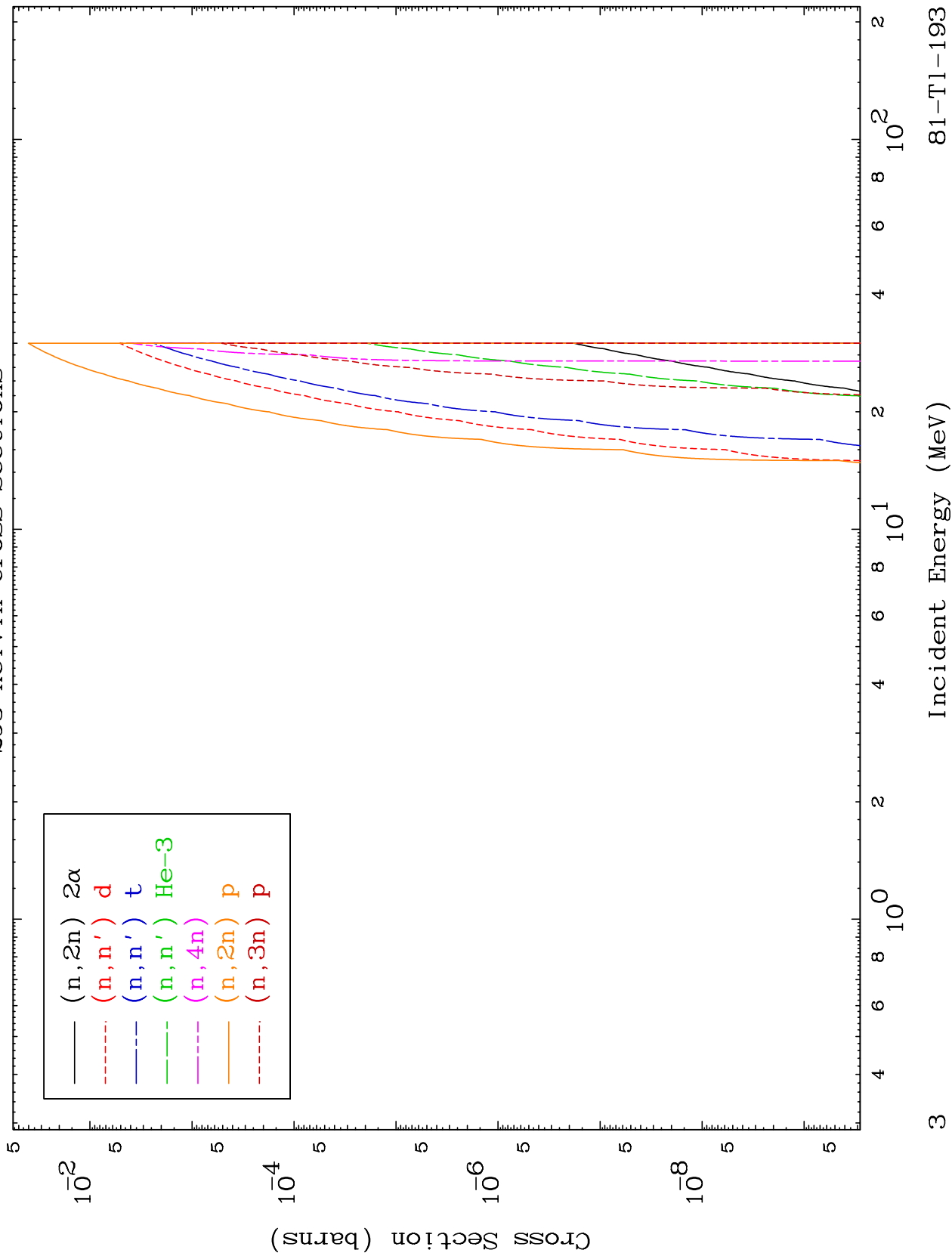


MAT 8096

Neutron Production
293 Kelvin Cross Sections

81-Tl-193

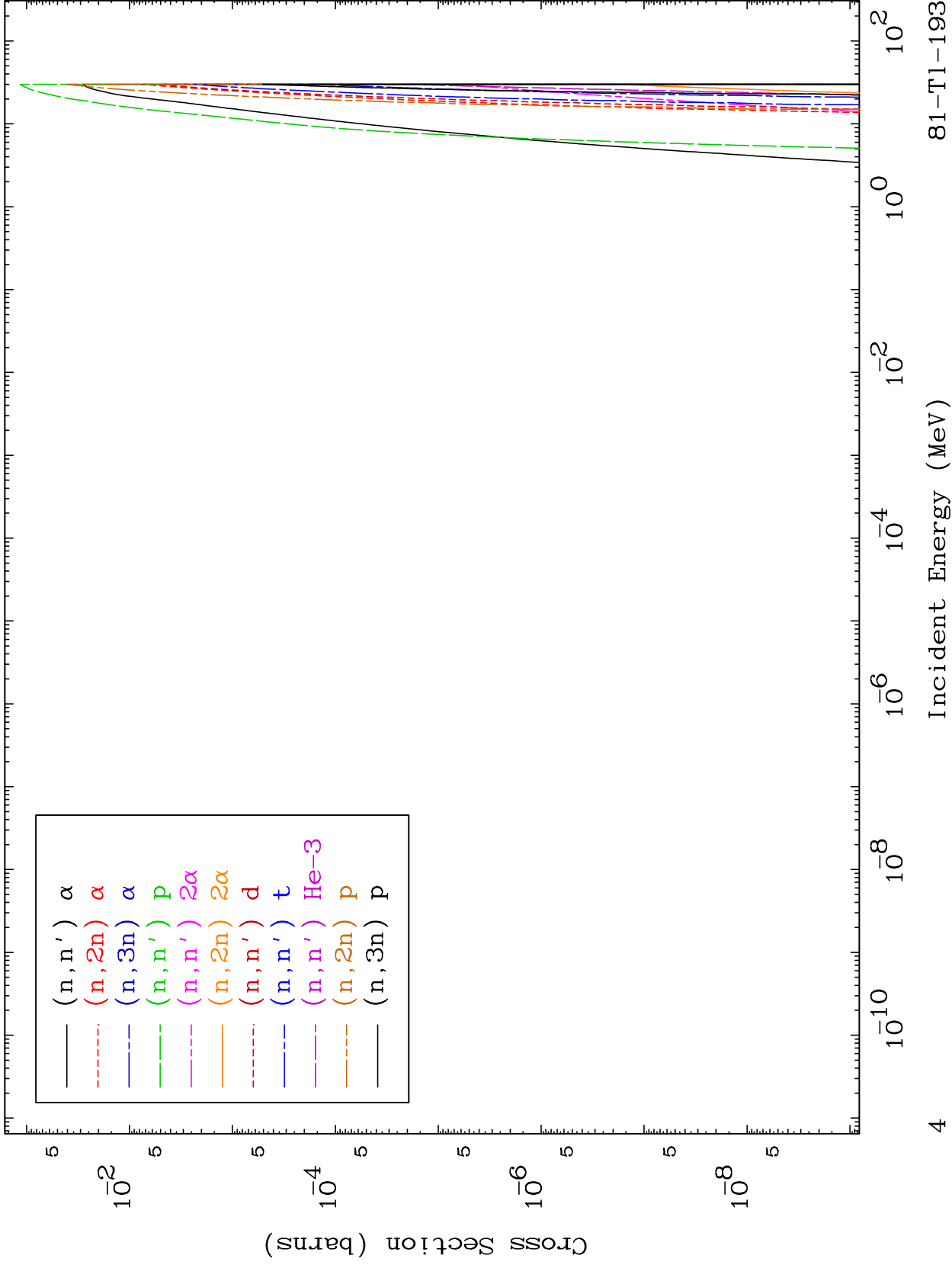




MAT 8096

Charged Particle
293 Kelvin Cross Sections

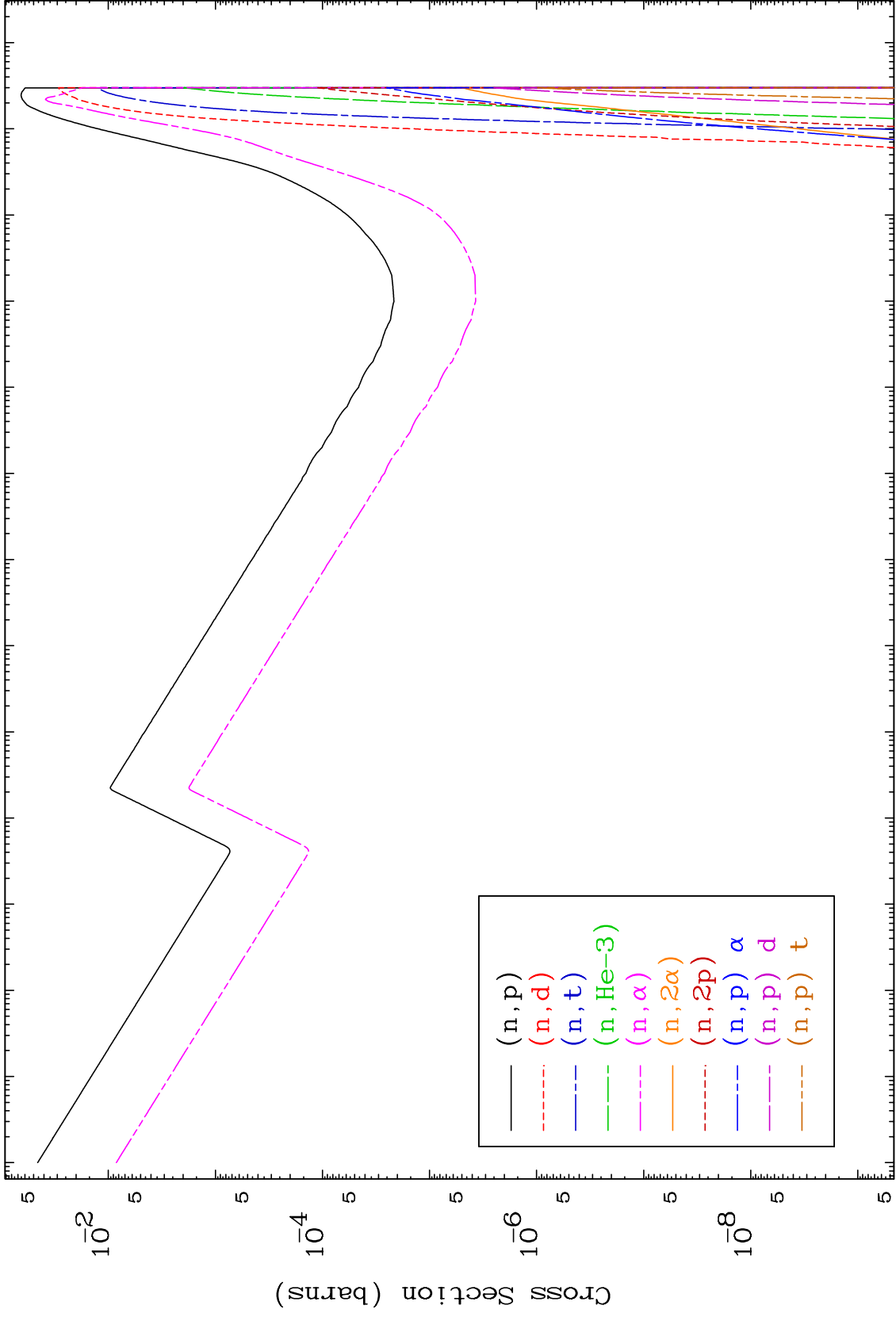
81-Tl-193



MAT 8096

Charged Particle
293 Kelvin Cross Sections

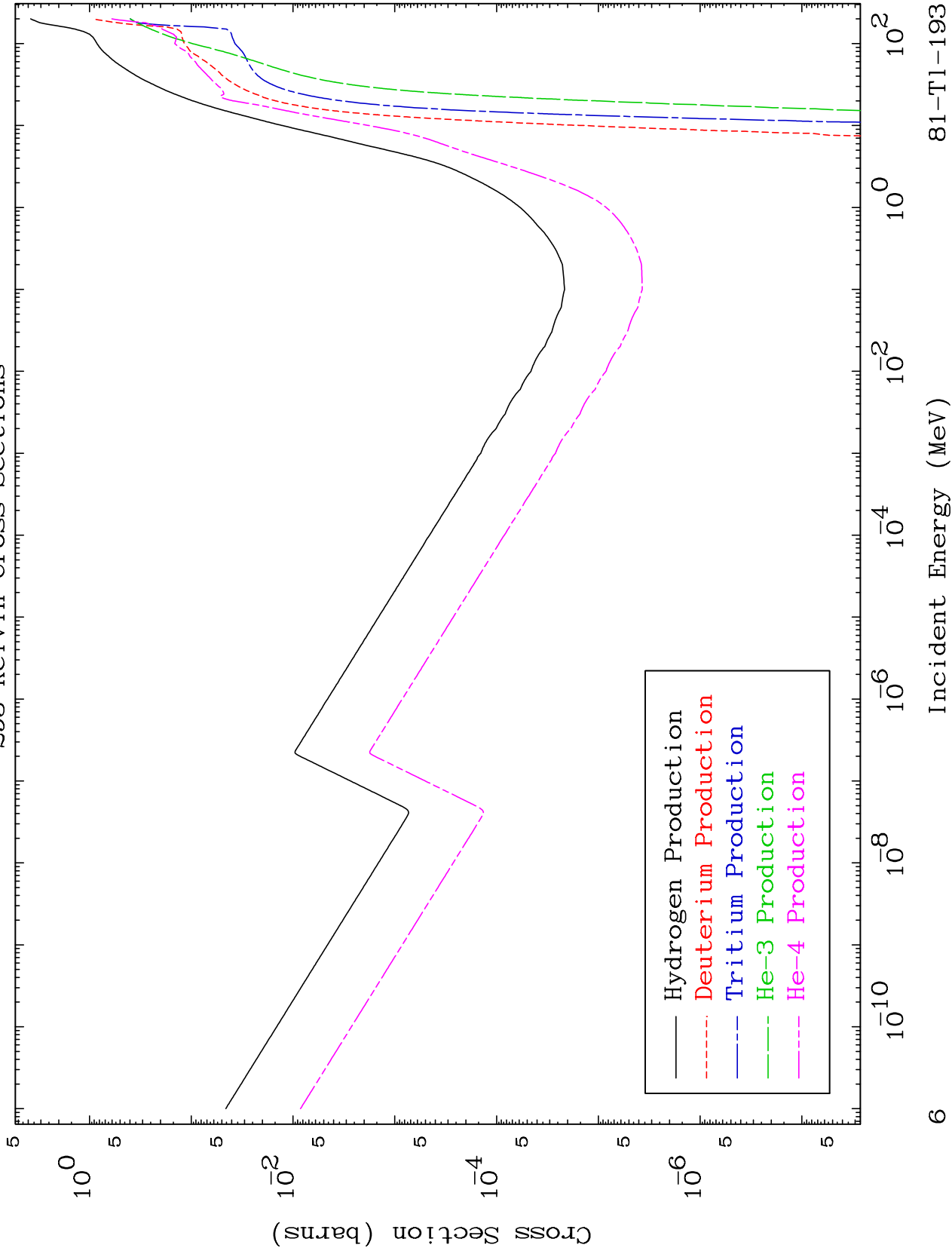
81-Tl-193



5

Incident Energy (MeV)

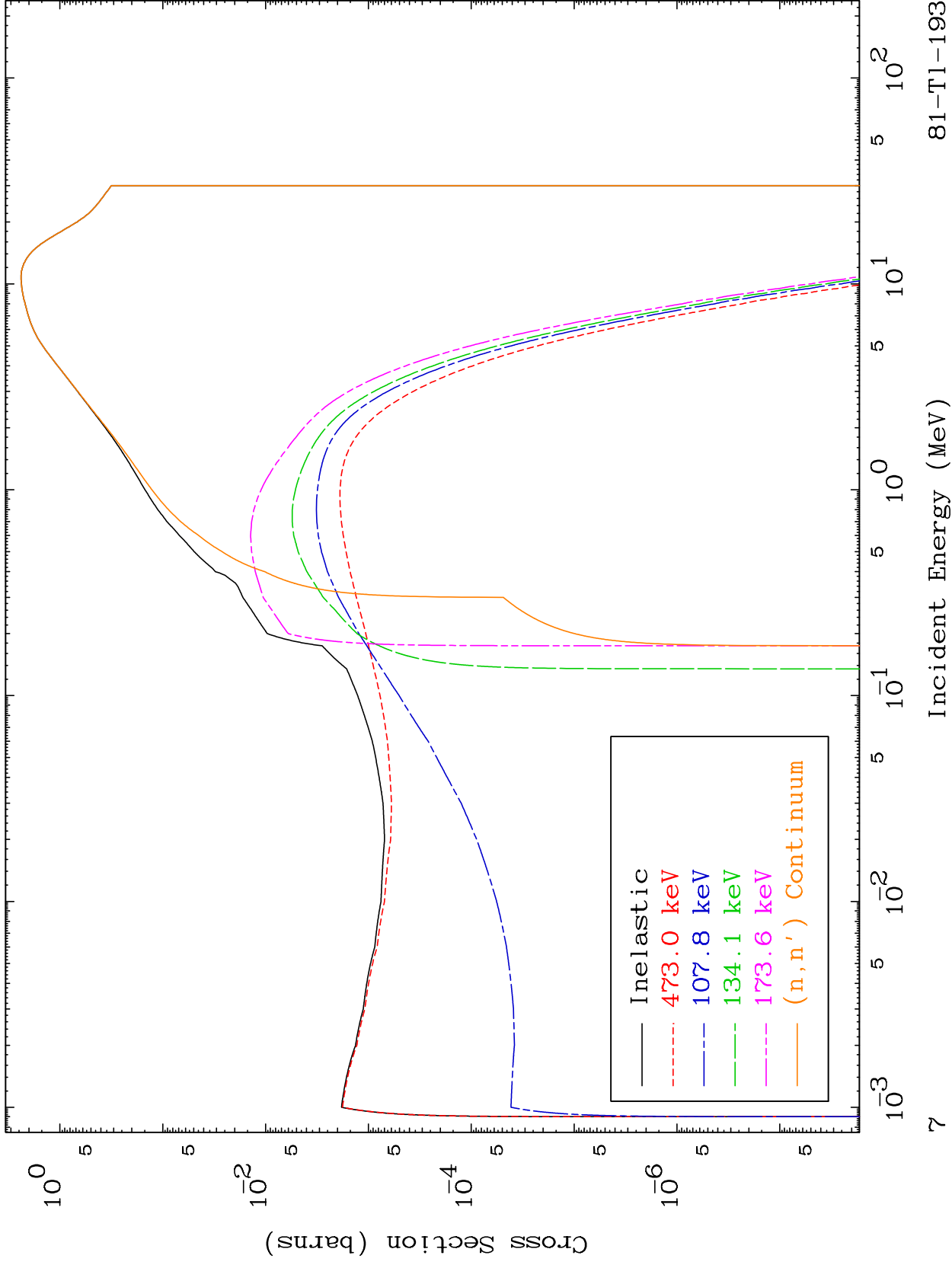
81-Tl-193



MAT 8096

(n,n') Level
293 Kelvin Cross Sections

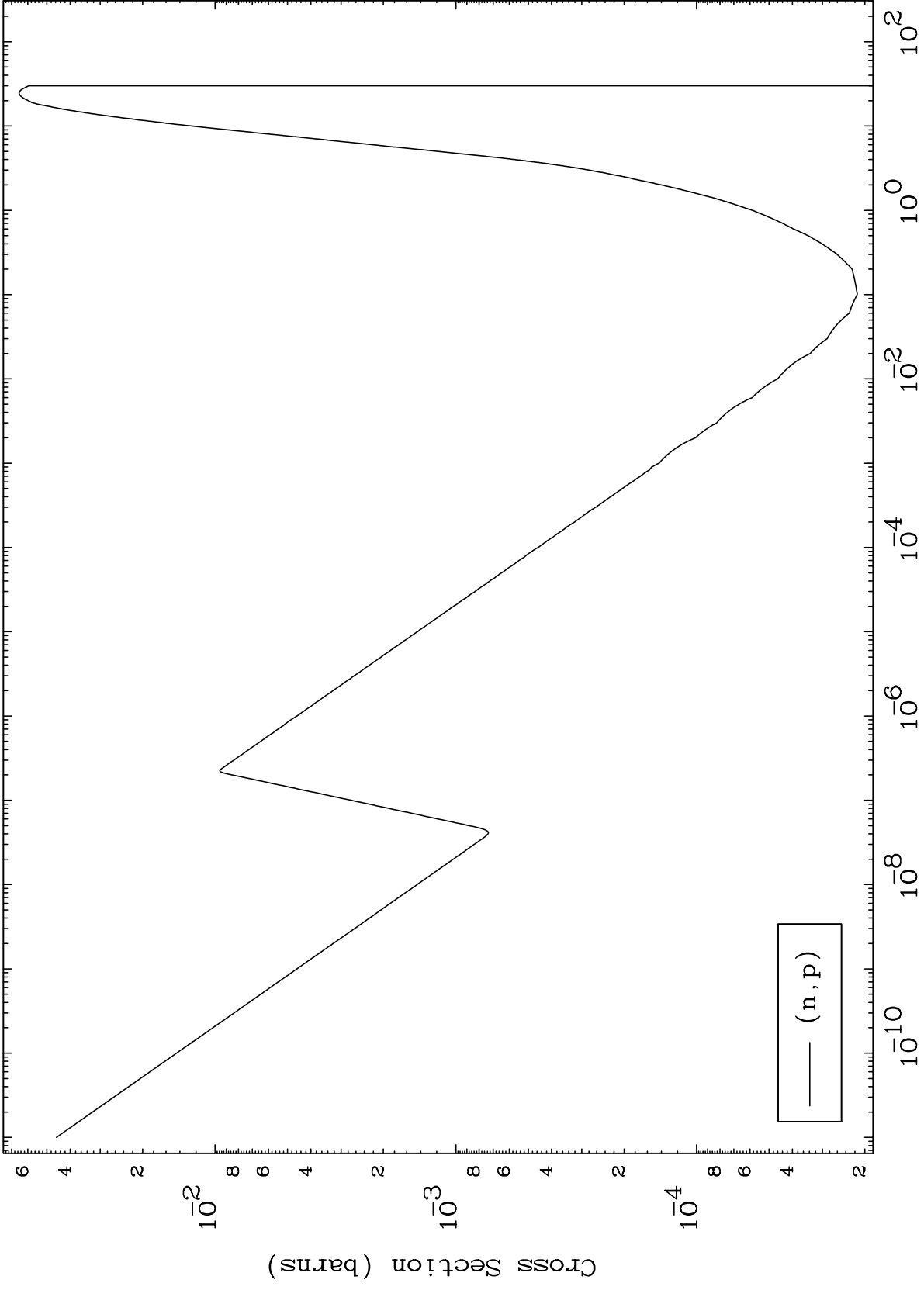
81-Tl-193



MAT 8096

(n,p) Levels
293 Kelvin Cross Sections

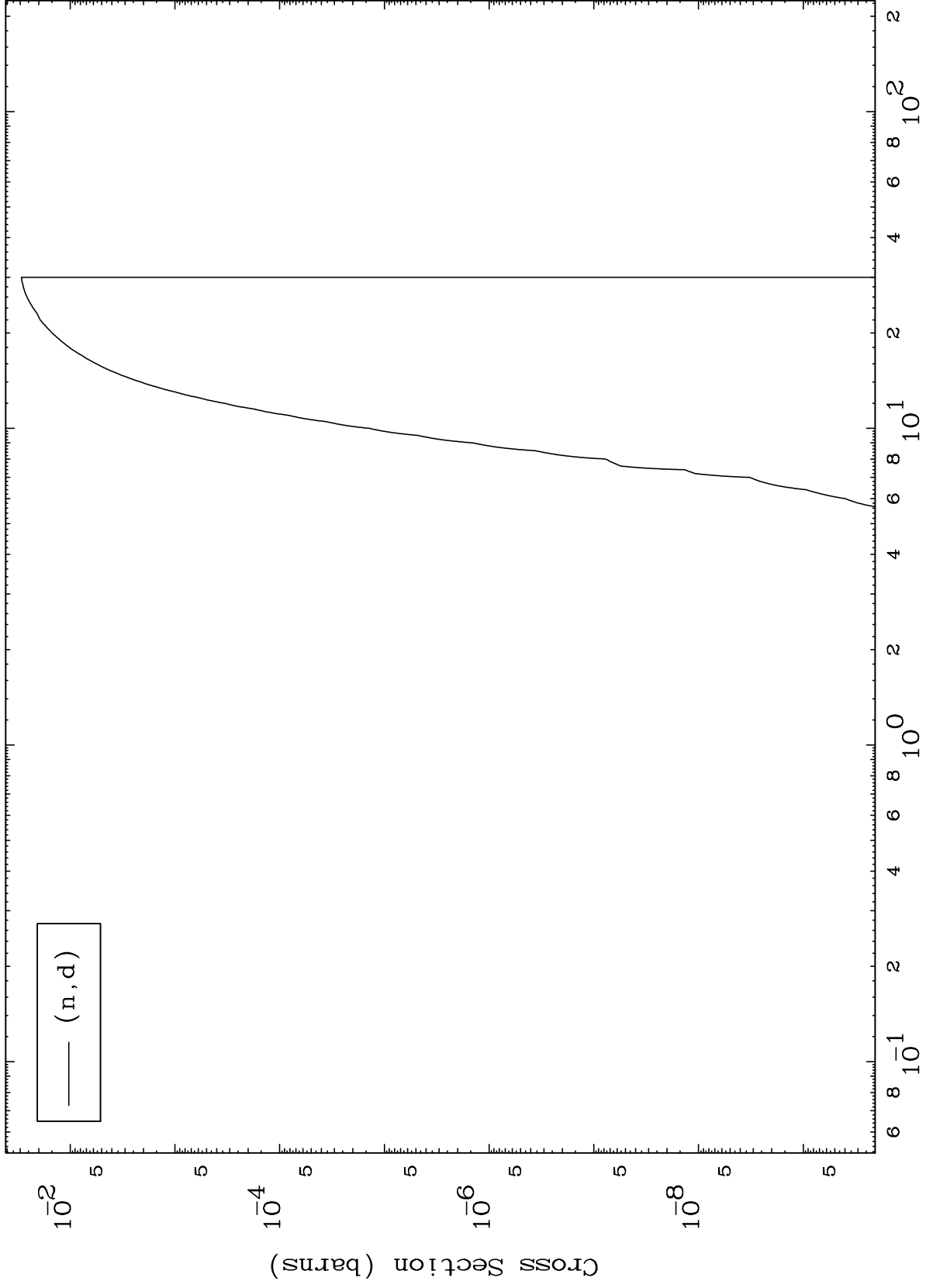
81-Tl-193



MAT 8096

(n,d) Levels
293 Kelvin Cross Sections

81-Tl-193



9

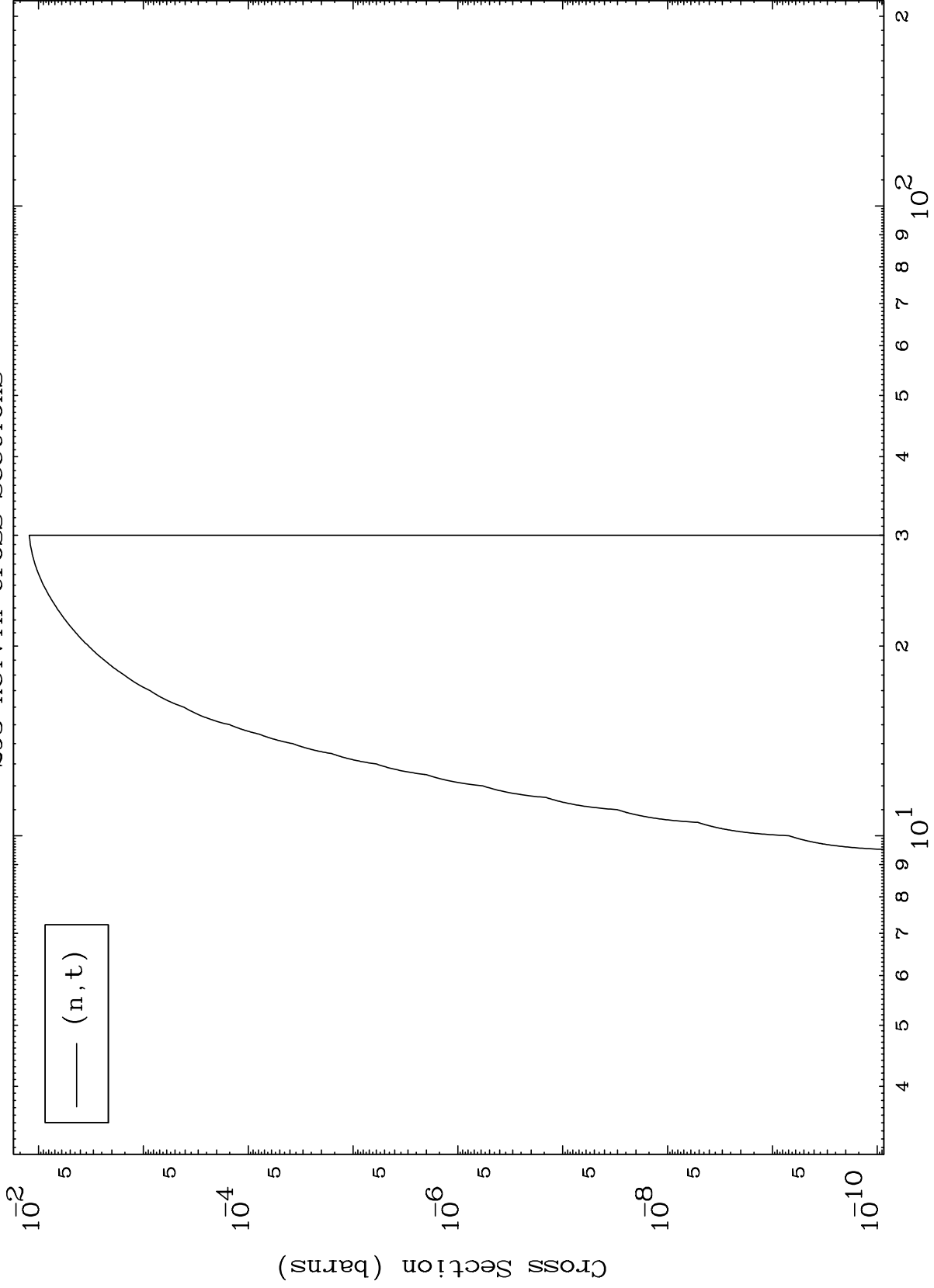
Incident Energy (MeV)

81-Tl-193

MAT 8096

(n,t) Levels
293 Kelvin Cross Sections

81-Tl-193



10

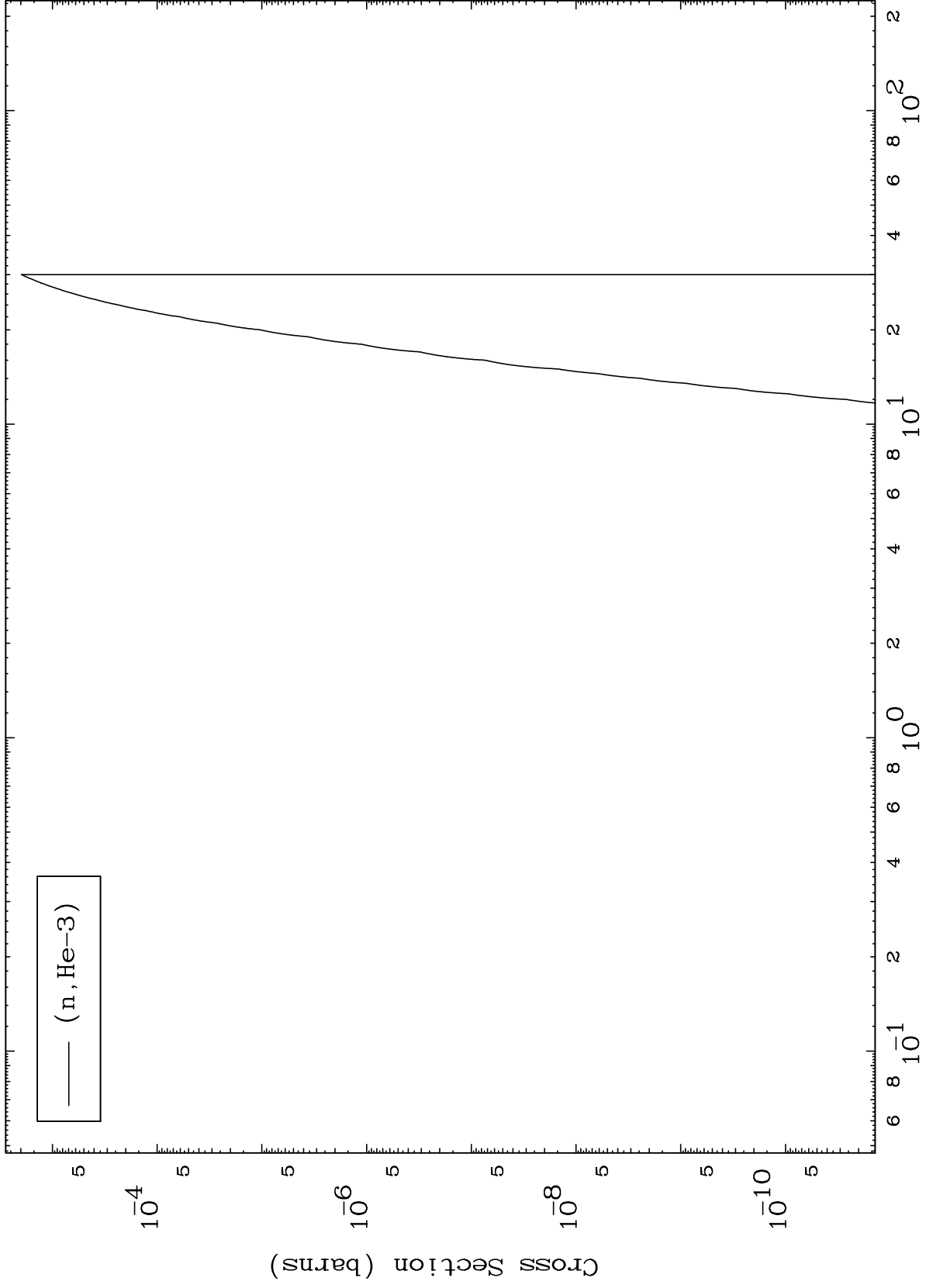
Incident Energy (MeV)

81-Tl-193

MAT 8096

(n,He3) Levels
293 Kelvin Cross Sections

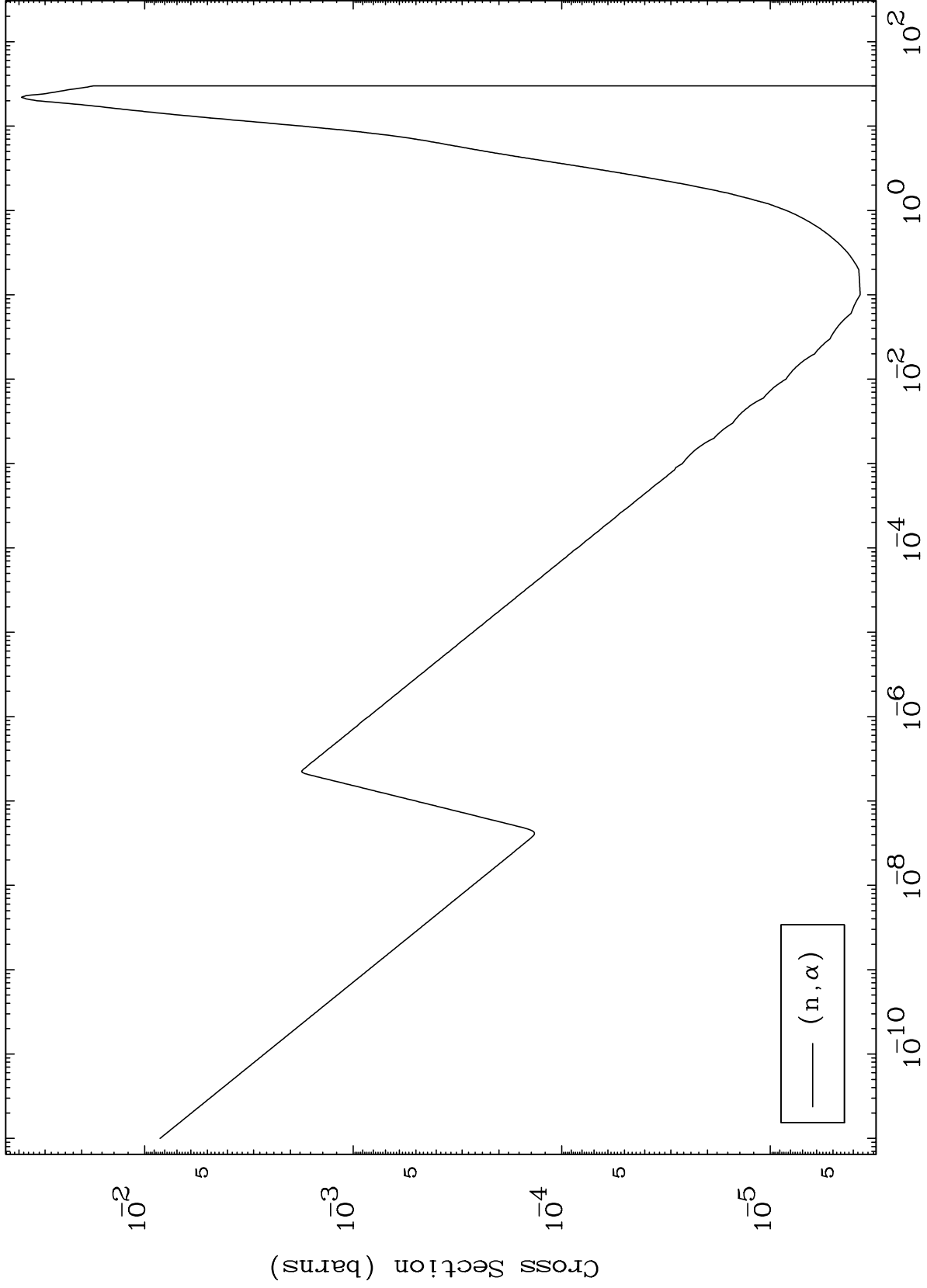
81-Tl-193

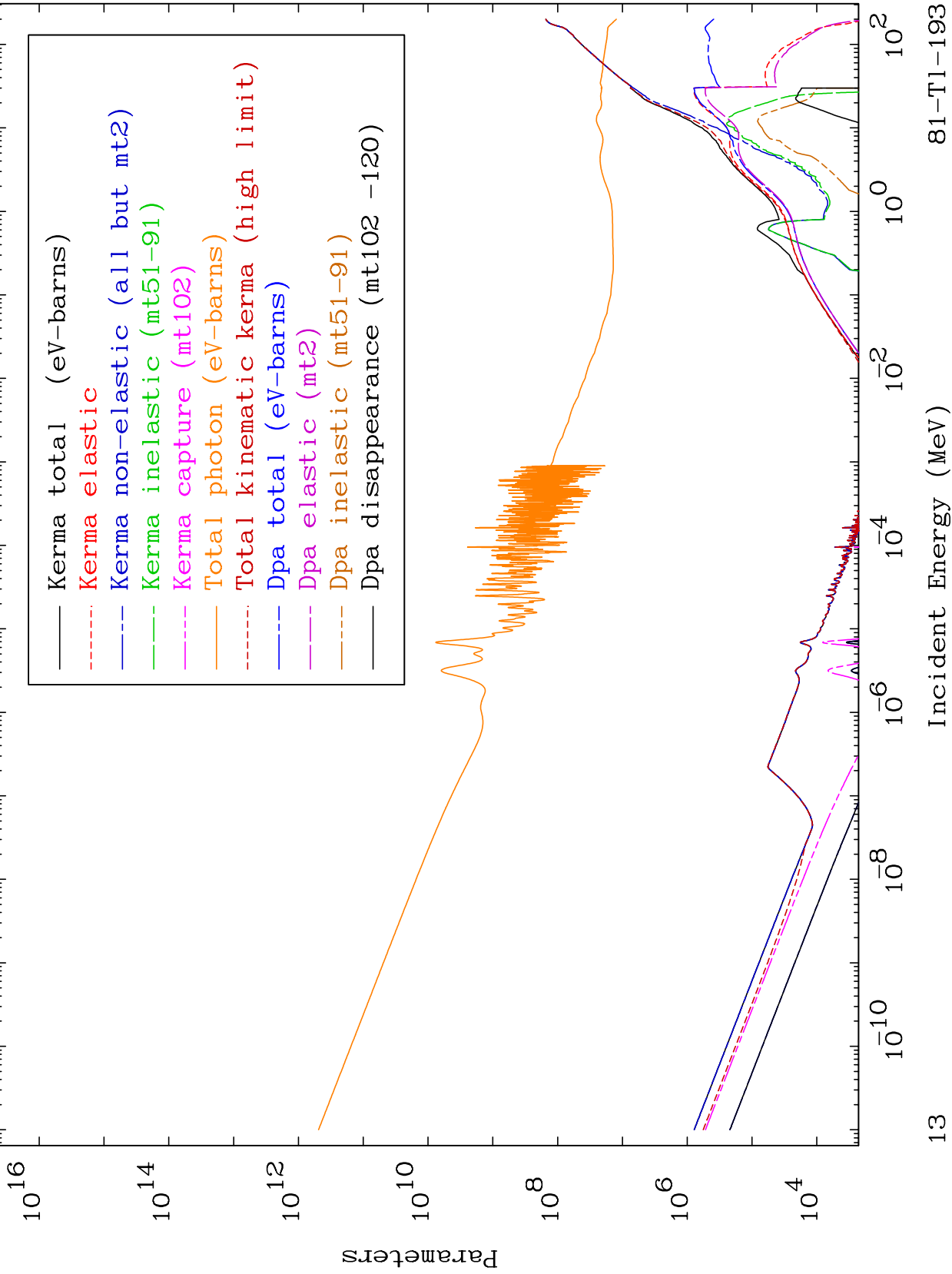


MAT 8096

(n, α) Levels
293 Kelvin Cross Sections

81-Tl-193

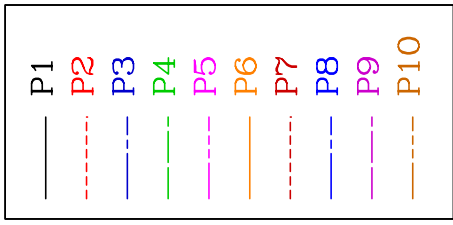
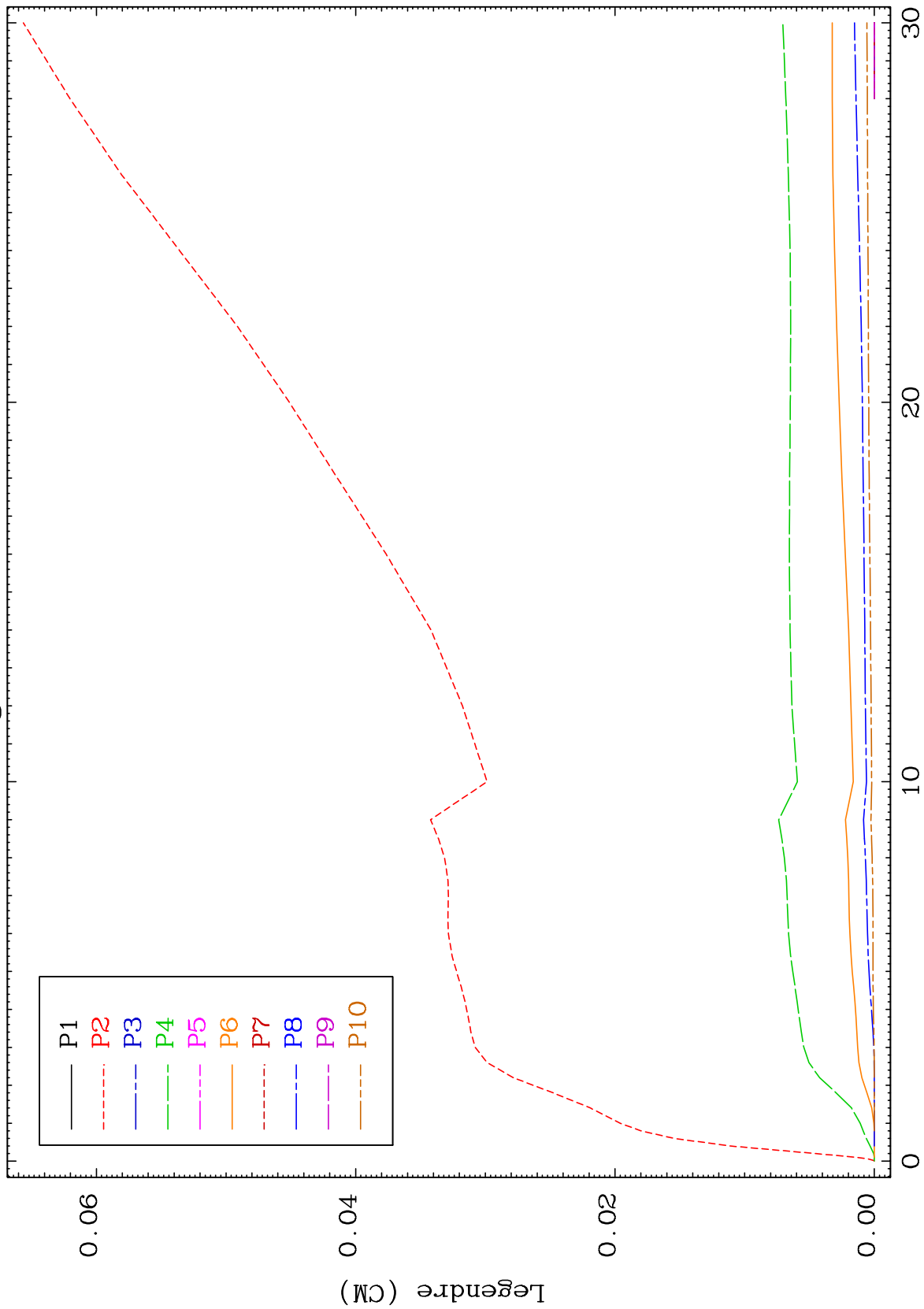




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Elastic Legendre Coefficients

81-T1-193



14

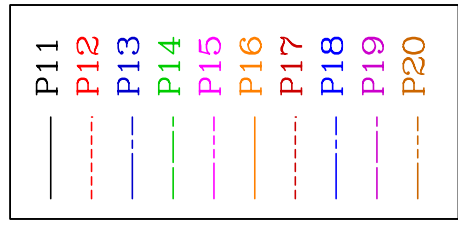
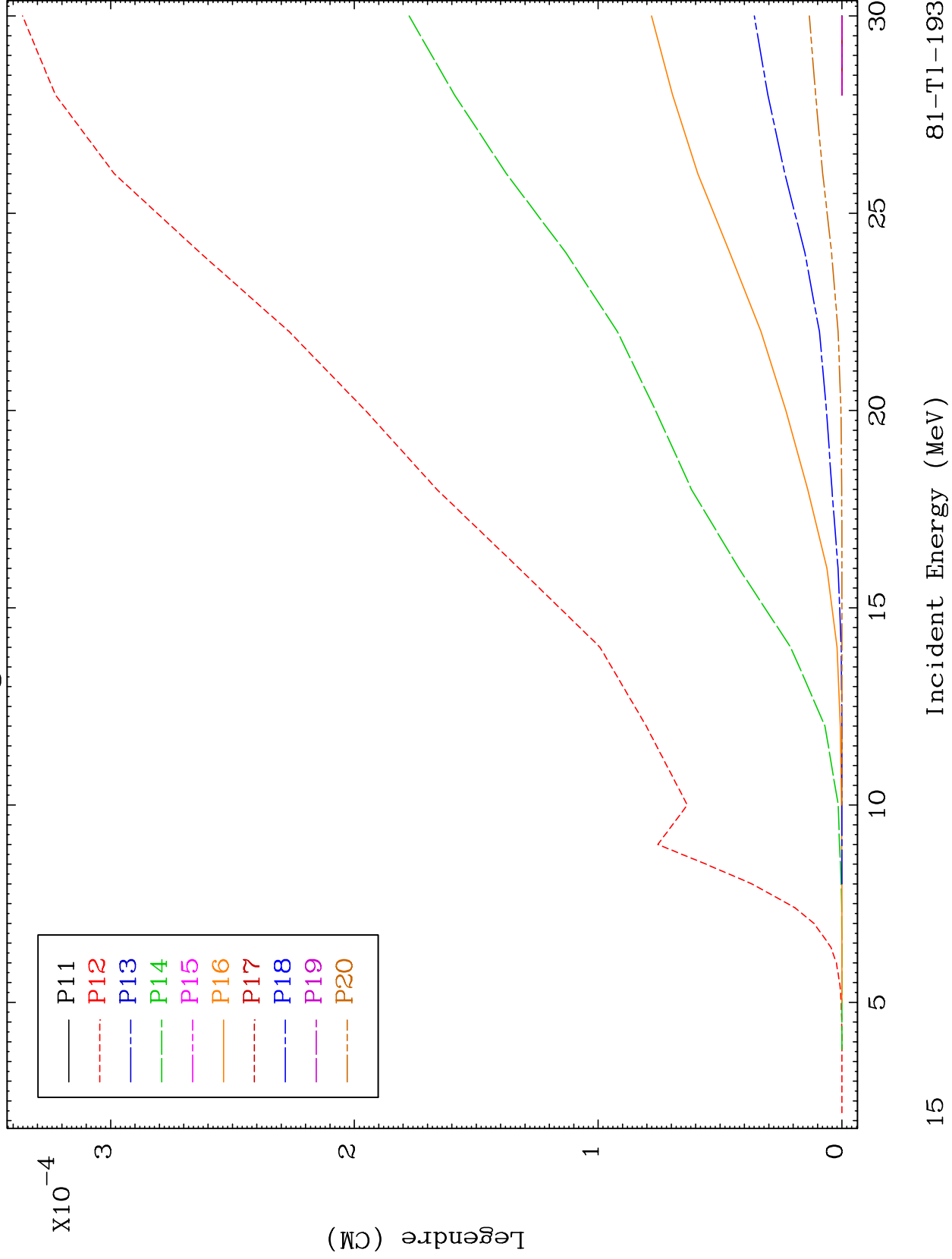
Incident Energy (MeV)

81-T1-193

MAT 8096

Elastic
Legendre Coefficients

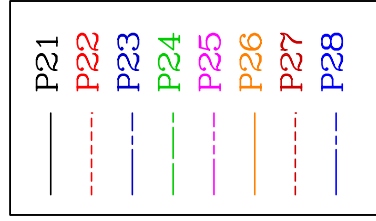
81-T1-193



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Elastic Legendre Coefficients

81-T1-193



$\times 10^{-6}$
2.0

1.5

1.0

0.5

0.0

Legendre (CM)

15

20

25

30

16

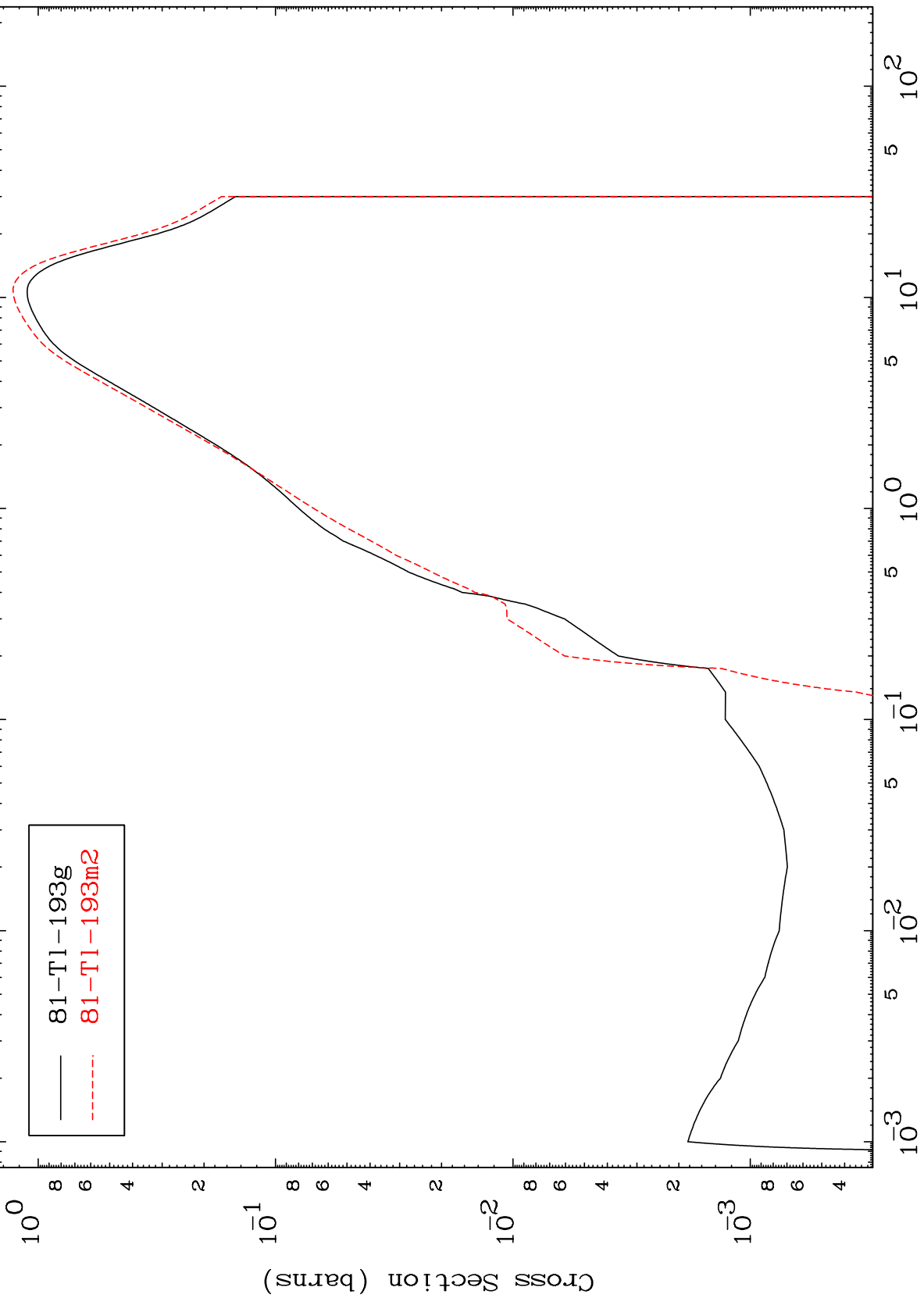
Incident Energy (MeV)

81-T1-193

MAT 8096

81-Tl-193

Inelastic
Radionuclide Production Cross Section



81-Tl-193g
81-Tl-193m2

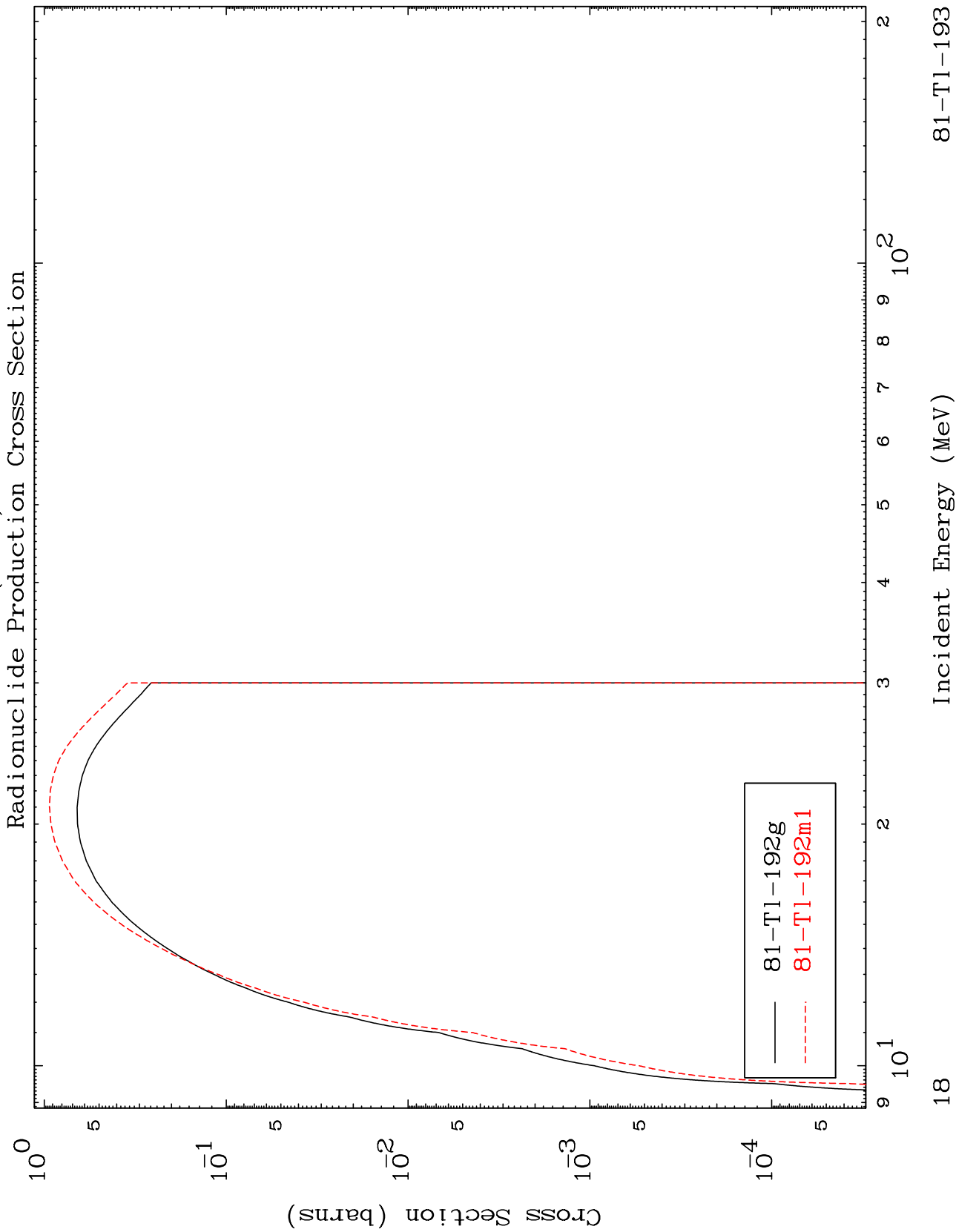
81-Tl-193

Incident Energy (MeV)

17

MAT 8096

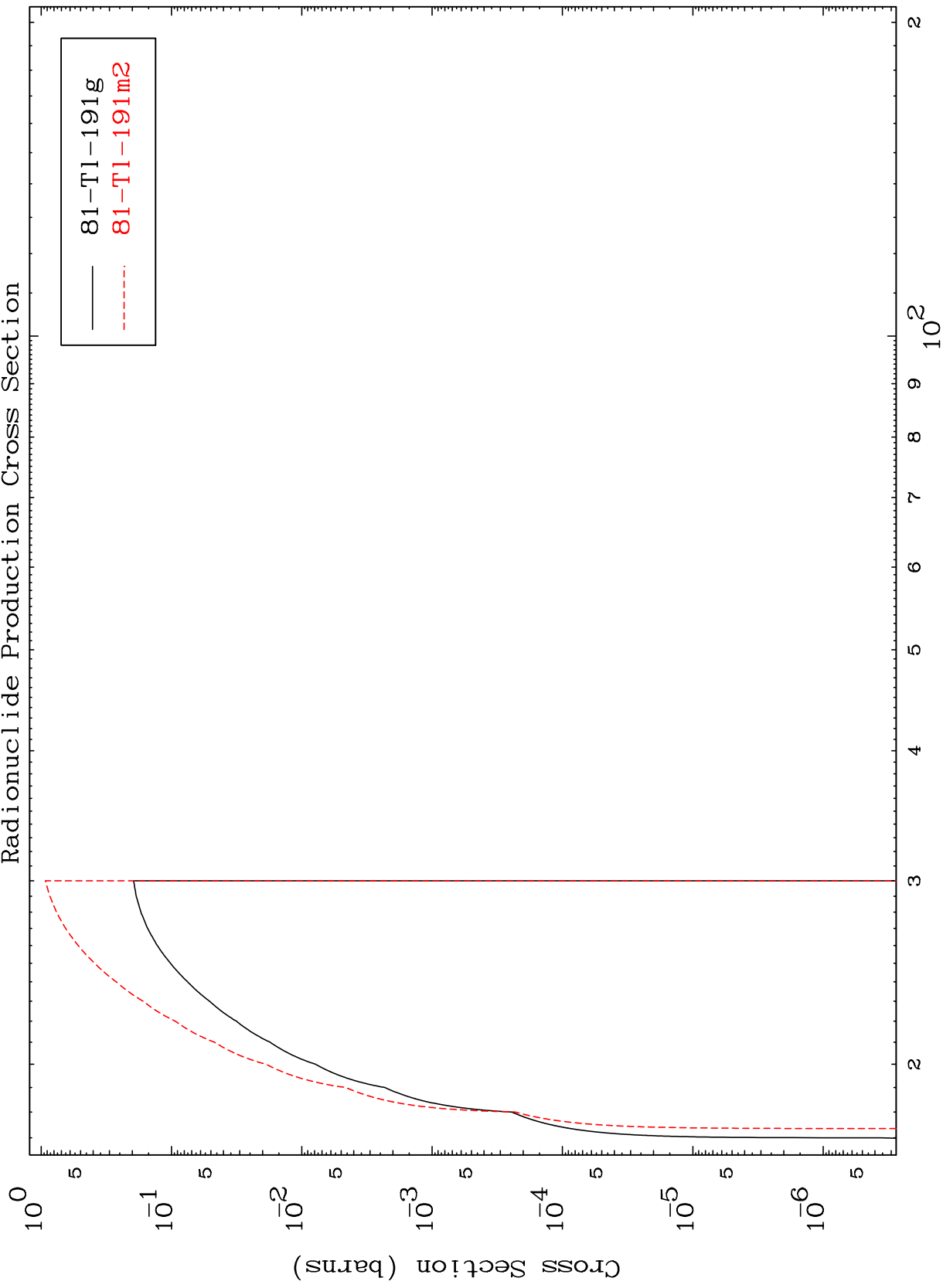
81-Tl-193



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81-Tl-193

(n,3n)
Radionuclide Production Cross Section



19

Incident Energy (MeV)

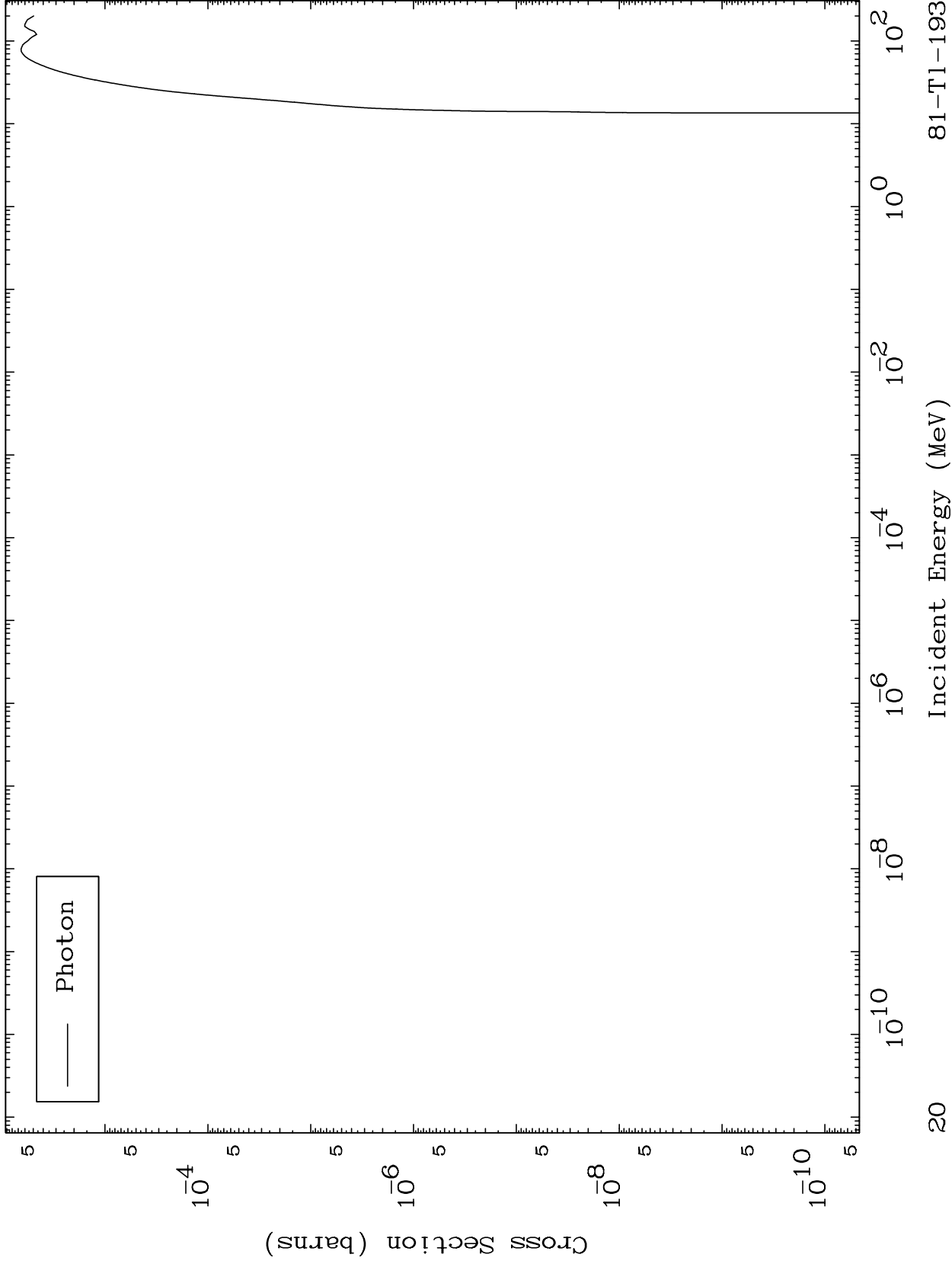
81-Tl-193

MAT 8096

Fission

81-Tl-193

Radionuclide Production Cross Section

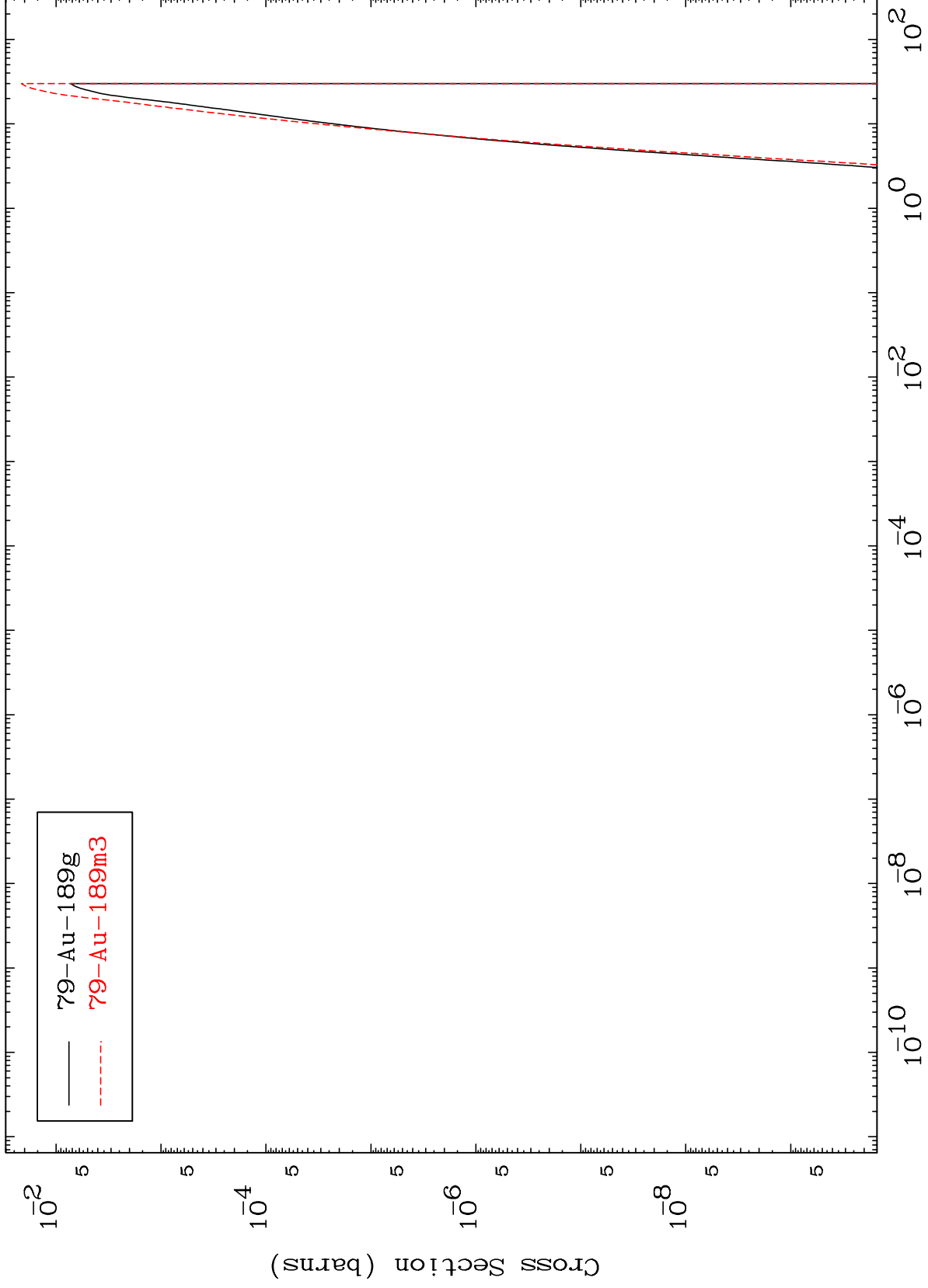


MAT 8096

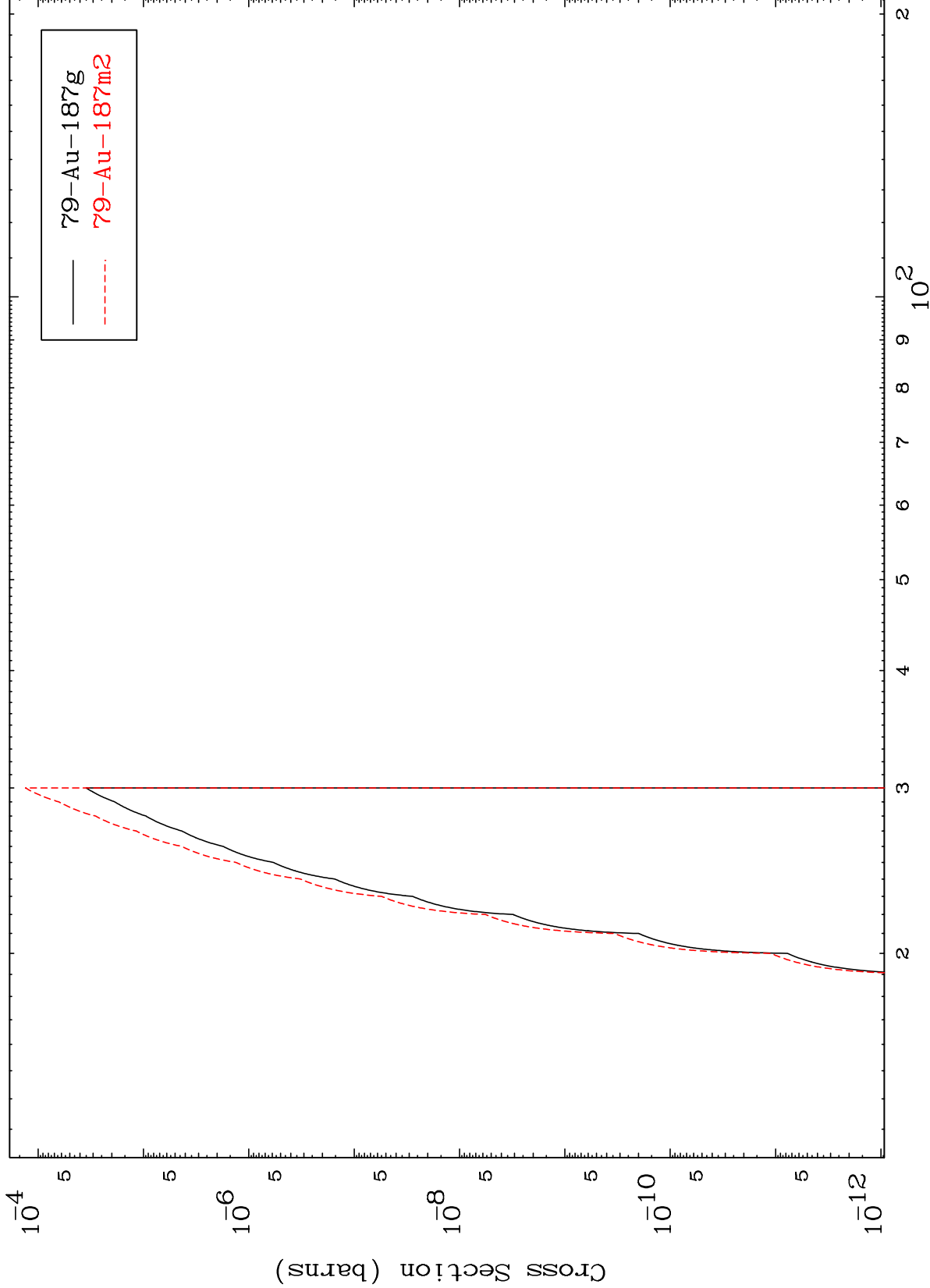
$(n, n') \alpha$

81-Tl-193

Radionuclide Production Cross Section



Radionuclide Production Cross Section

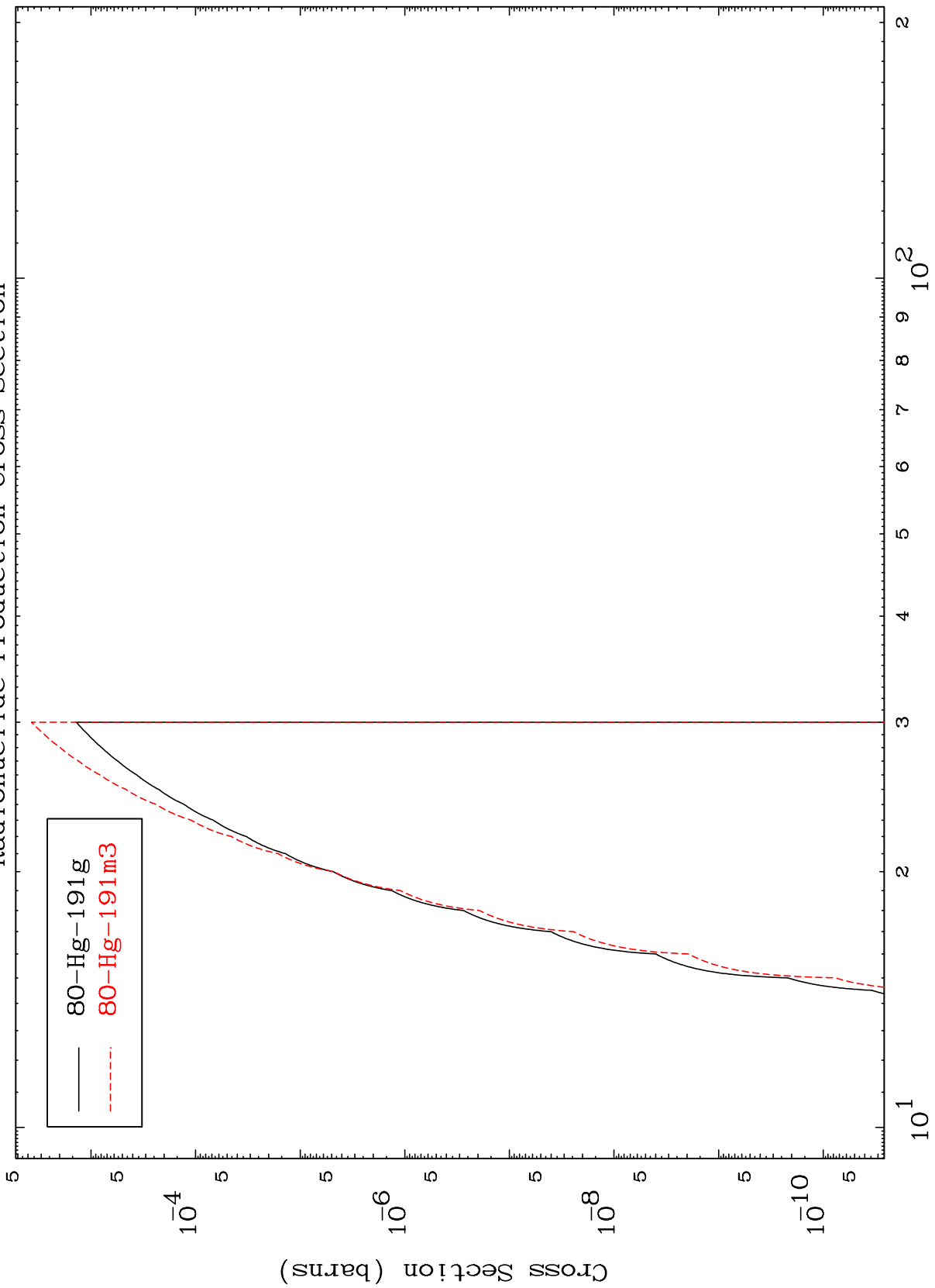


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(n,n') d

81-T1-193

Radionuclide Production Cross Section



23

Incident Energy (MeV)

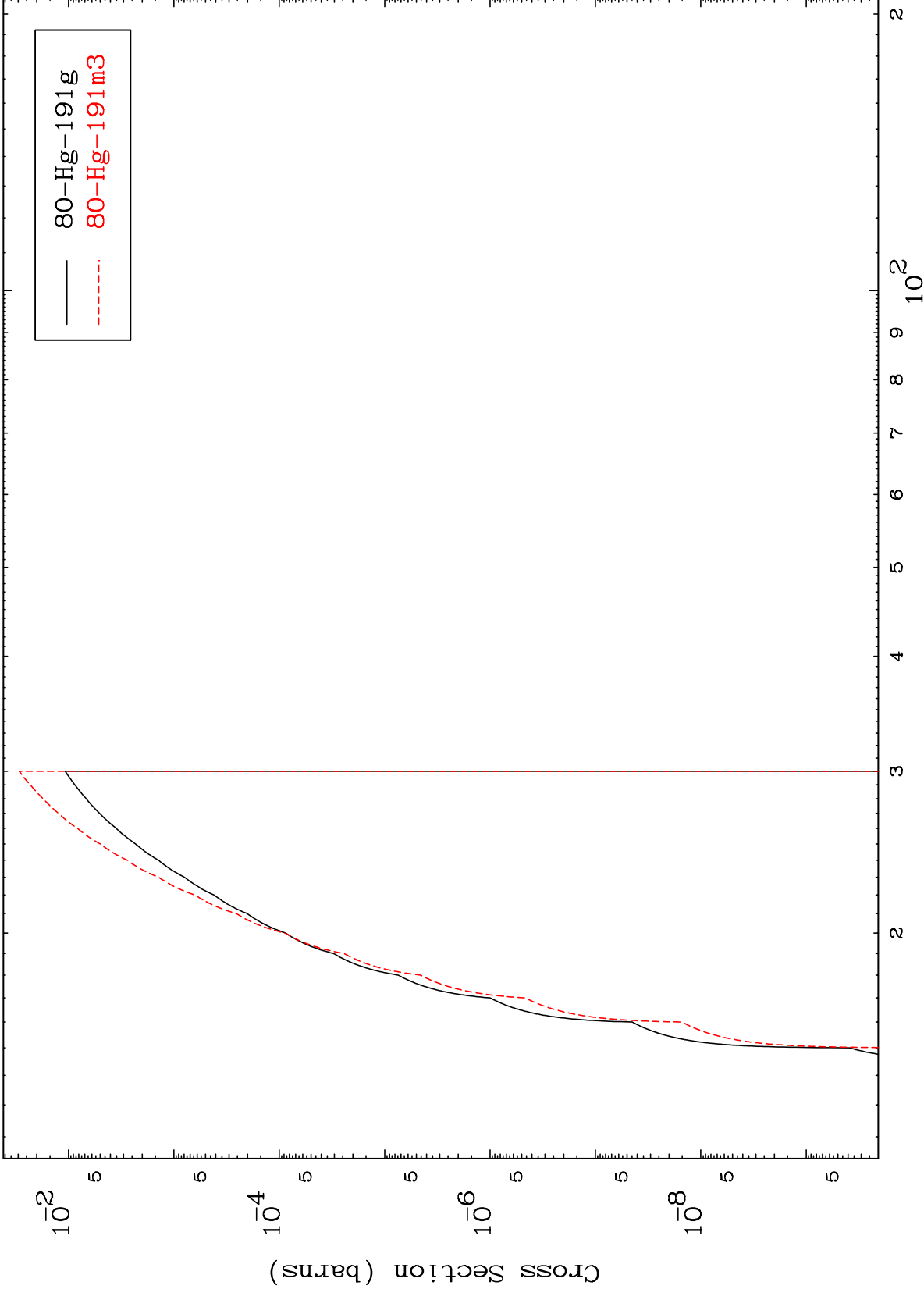
81-T1-193

MAT 8096

(n,2n) p

81-Tl-193

Radionuclide Production Cross Section



24

Incident Energy (MeV)

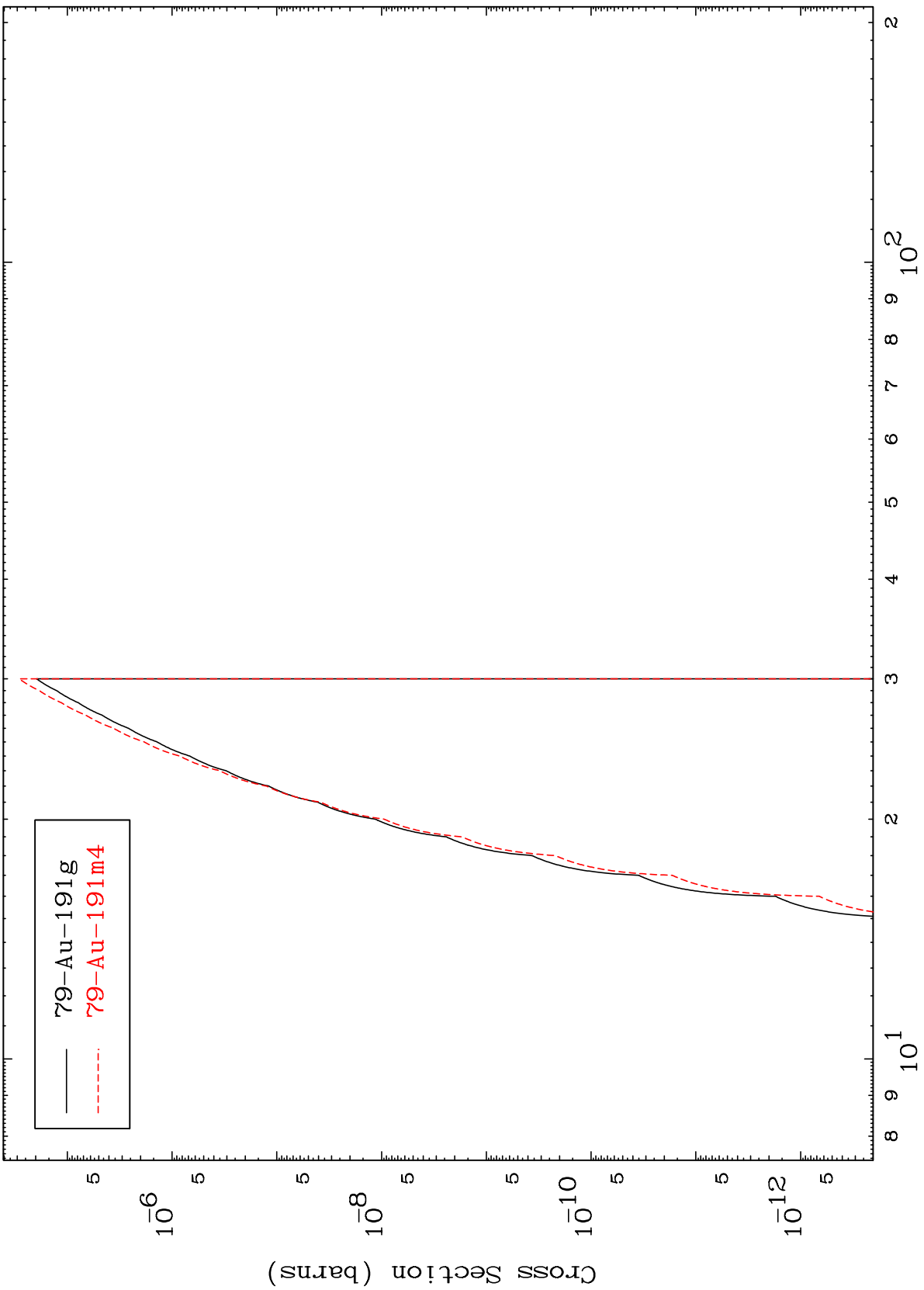
81-Tl-193

MAT 8096

(n,2n) p

81-Tl-193

Radionuclide Production Cross Section



25

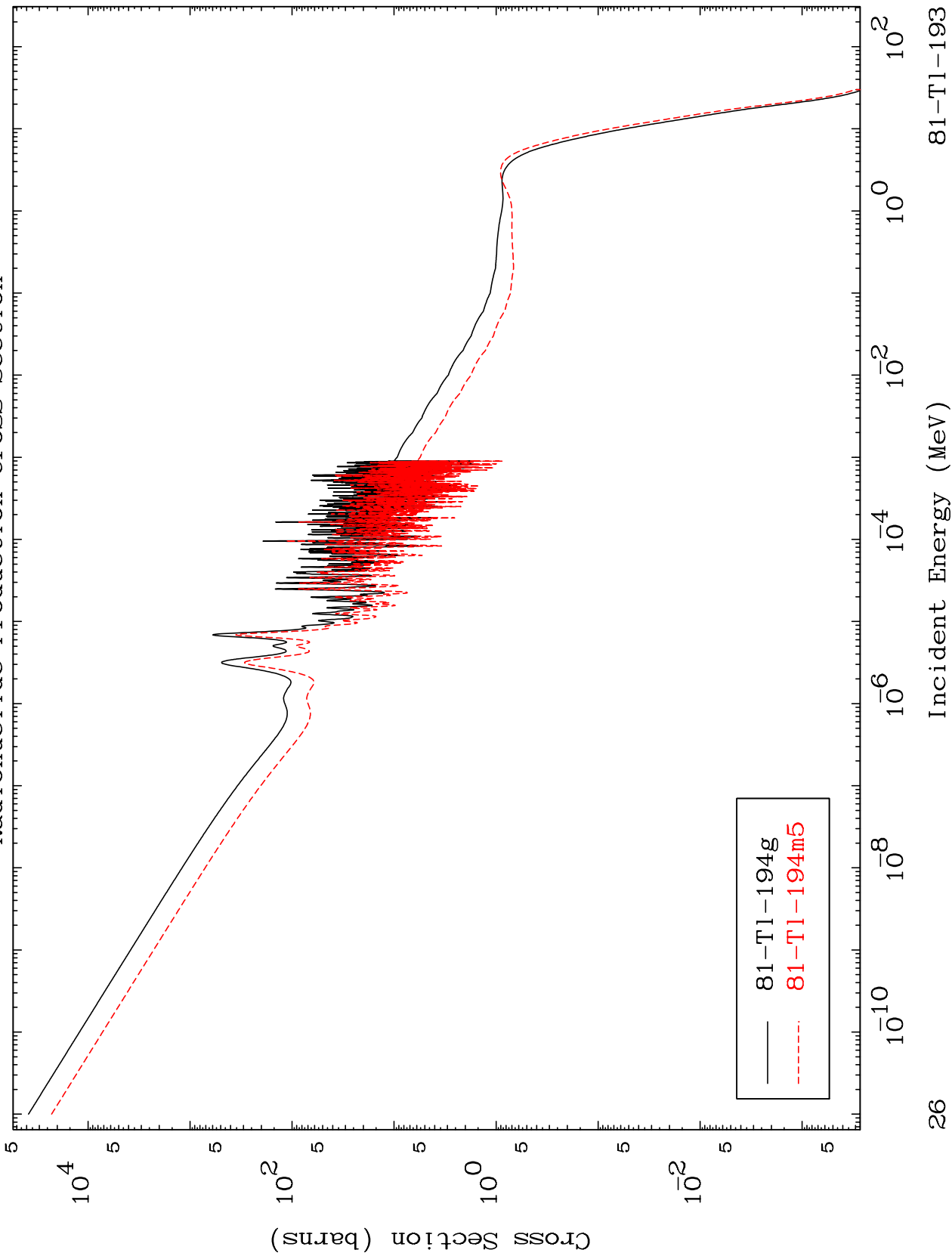
Incident Energy (MeV)

81-Tl-193

MAT 8096

81-Tl-193

(n, γ)
Radionuclide Production Cross Section

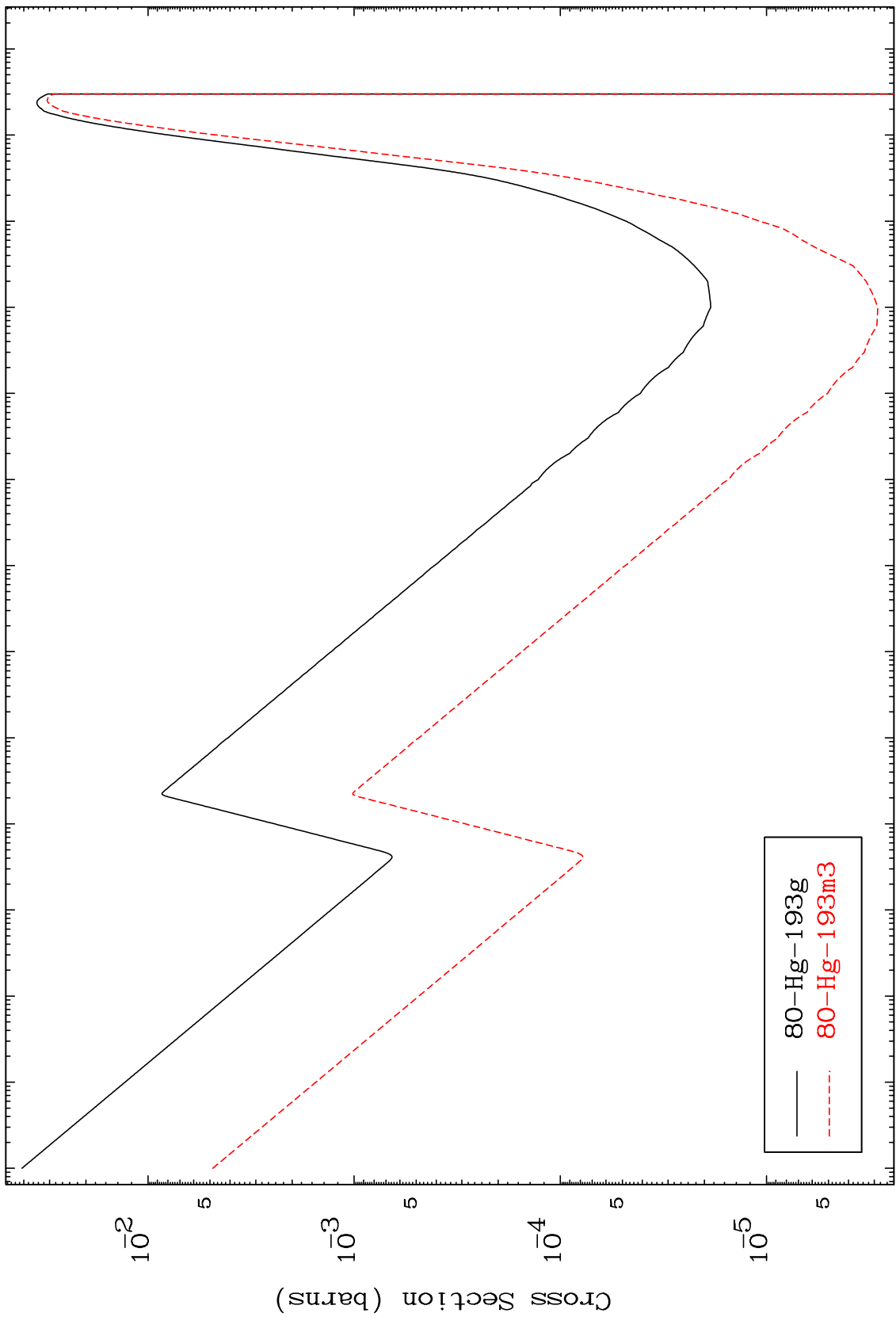


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(n,p)

81-Tl-193

Radionuclide Production Cross Section



81-Tl-193

10⁻²

10⁻⁴

10⁻⁶

10⁻⁸

10⁻¹⁰

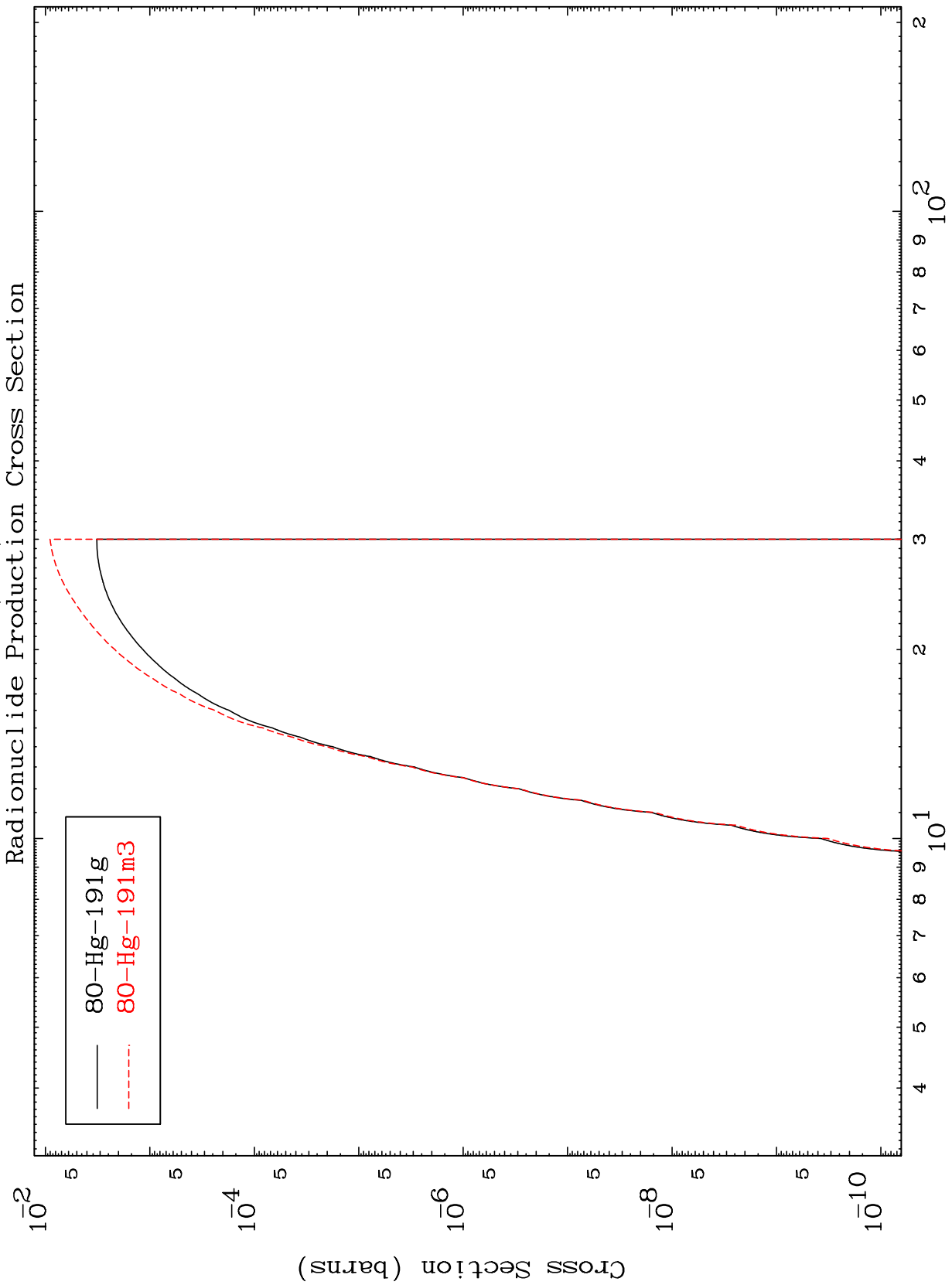
10²

Incident Energy (MeV)

81-Tl-193

MAT 8096

81-Tl-193



28

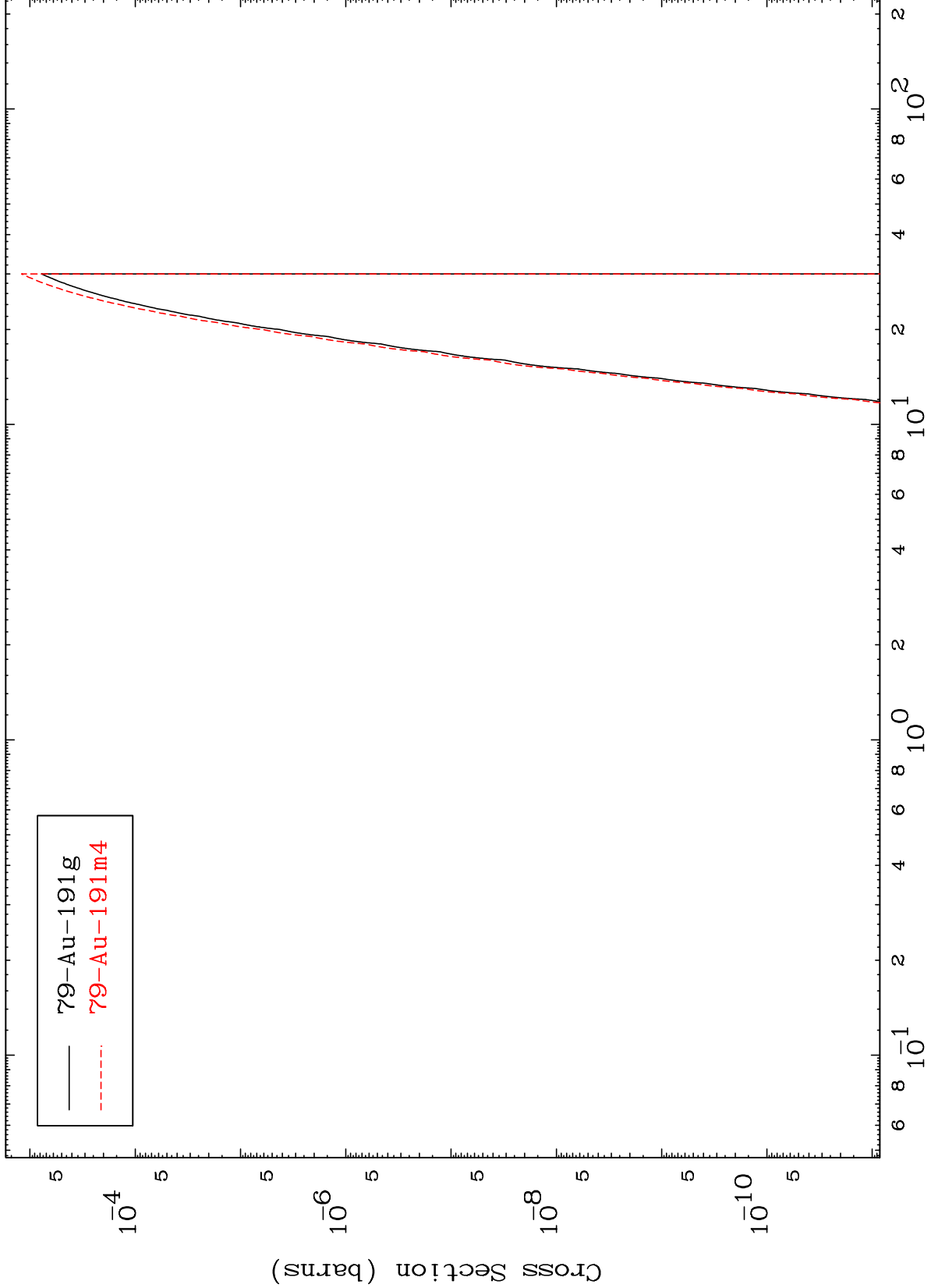
81-Tl-193

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(n,He-3)

81-Tl-193

Radionuclide Production Cross Section



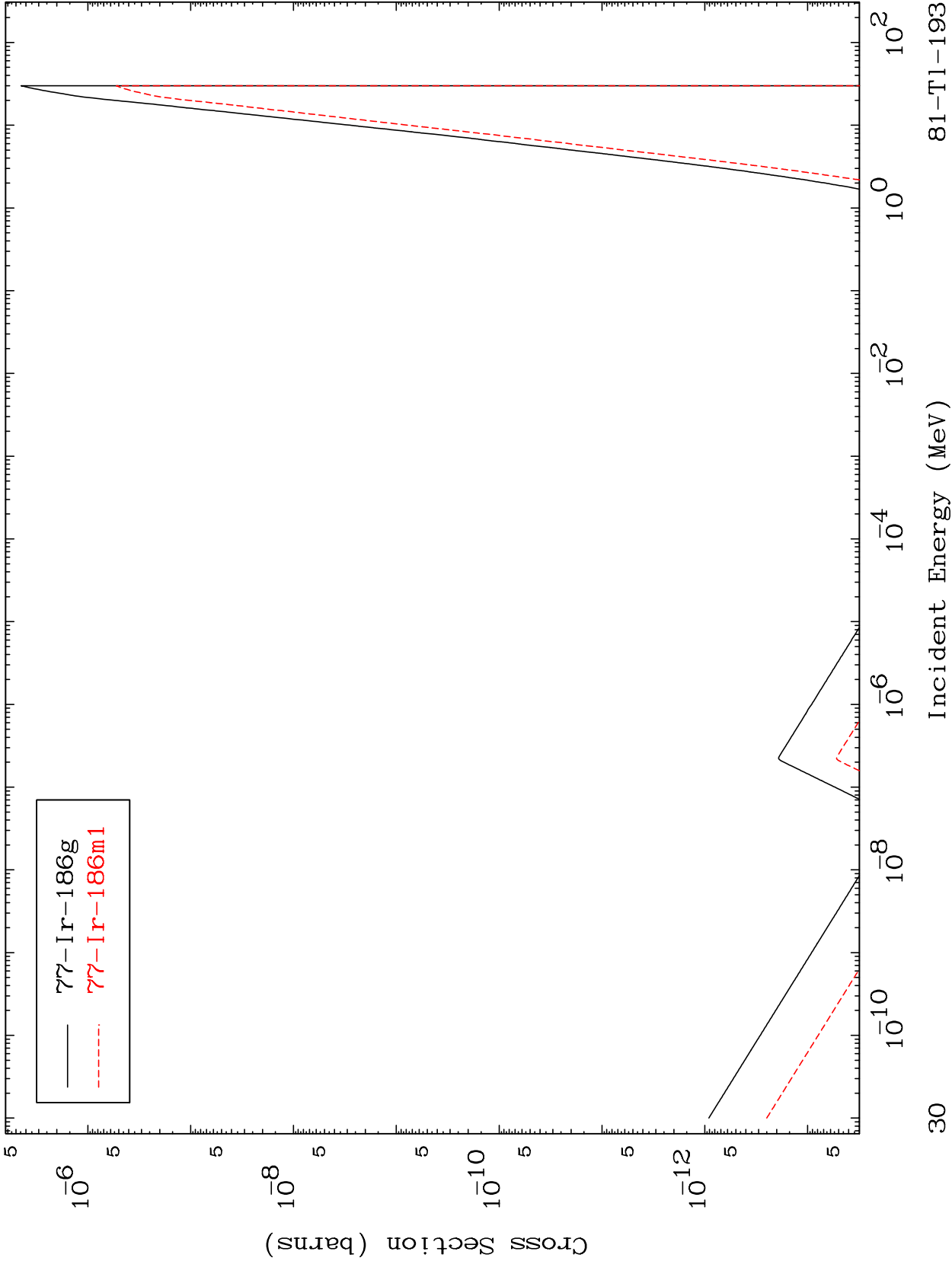
— $^{79}\text{Au-191g}$
- - - $^{79}\text{Au-191m4}$

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(n,2α)

81-Tl-193

Radionuclide Production Cross Section



30

Incident Energy (MeV)

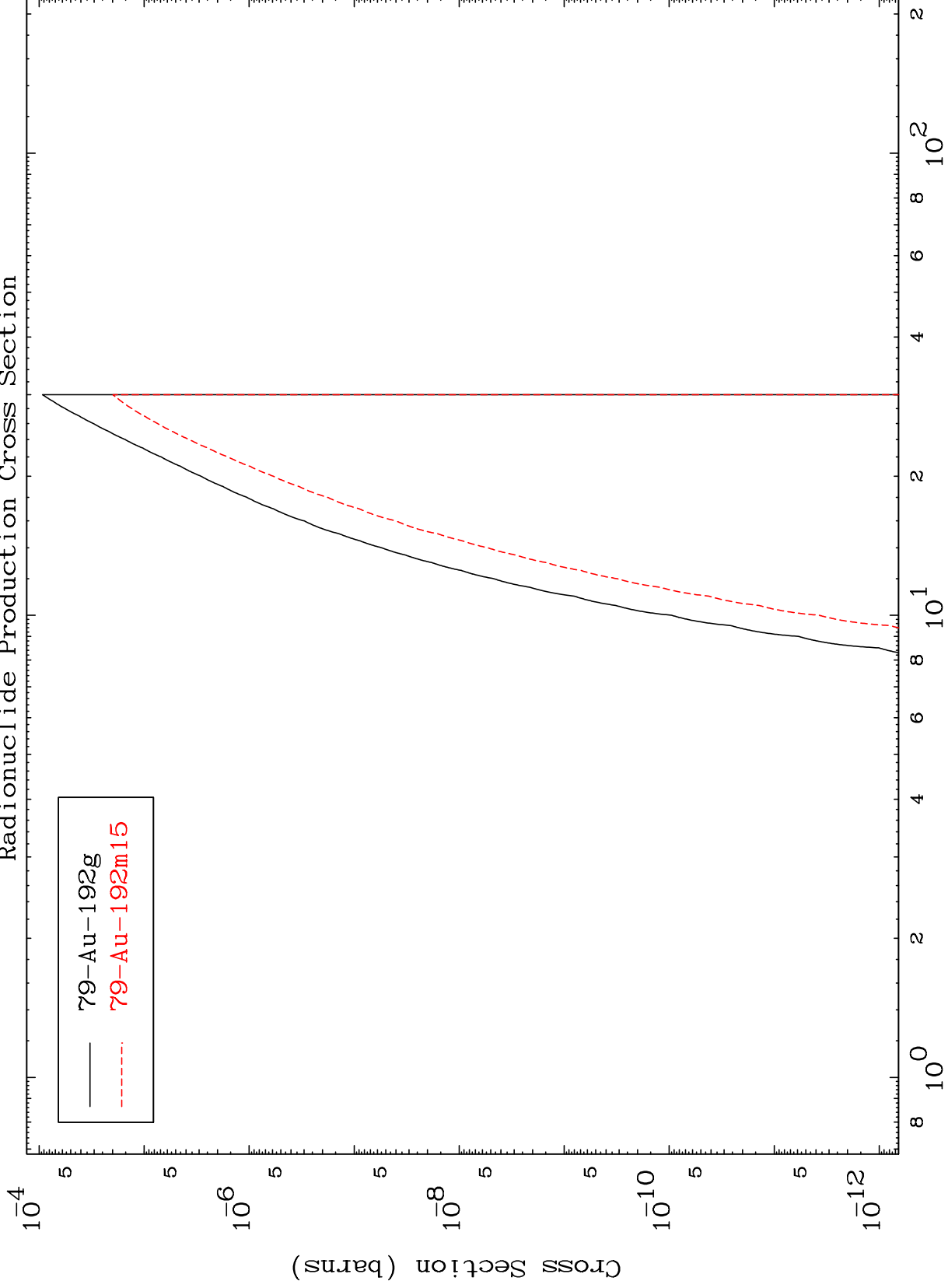
81-Tl-193

MAT 8096

(n,2p)

81-Tl-193

Radionuclide Production Cross Section



31

Incident Energy (MeV)

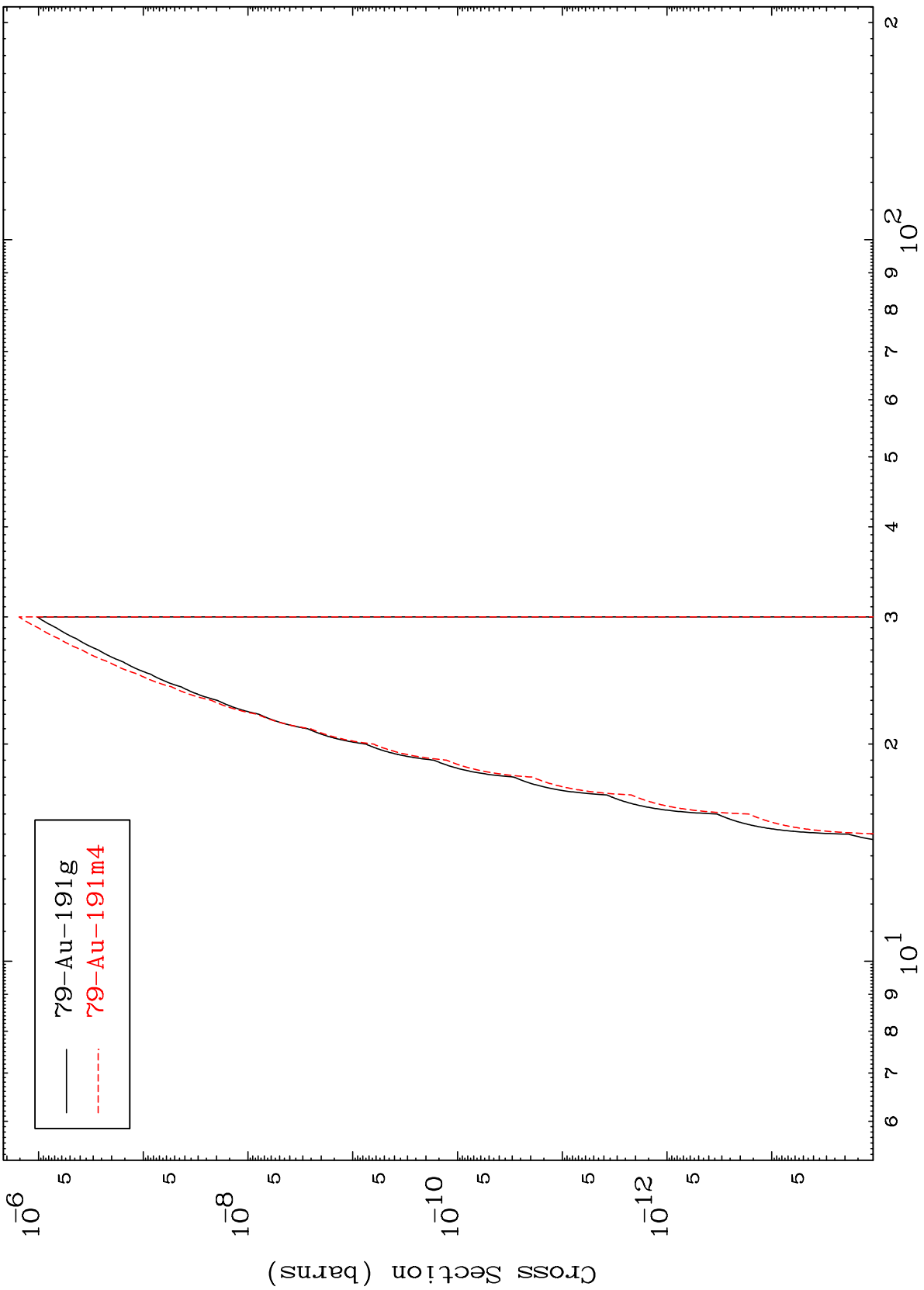
81-Tl-193

MAT 8096

(n,p) d

81-Tl-193

Radionuclide Production Cross Section



32

Incident Energy (MeV)

81-Tl-193