

Program EVALPLOT
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

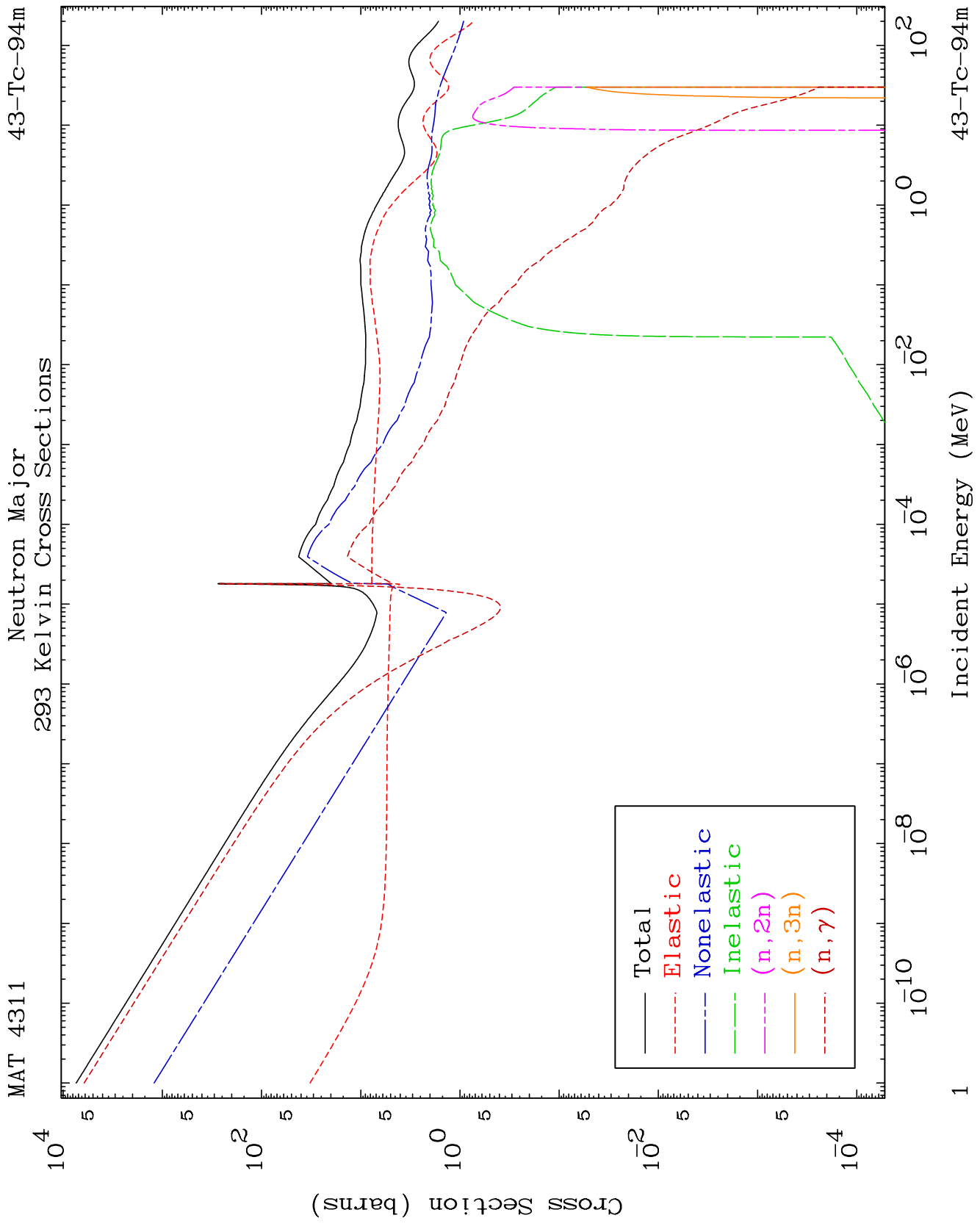
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E.Mail:redcullen1@comcast.net

Web:redcullen1.net/HOMEPAGE.NEW

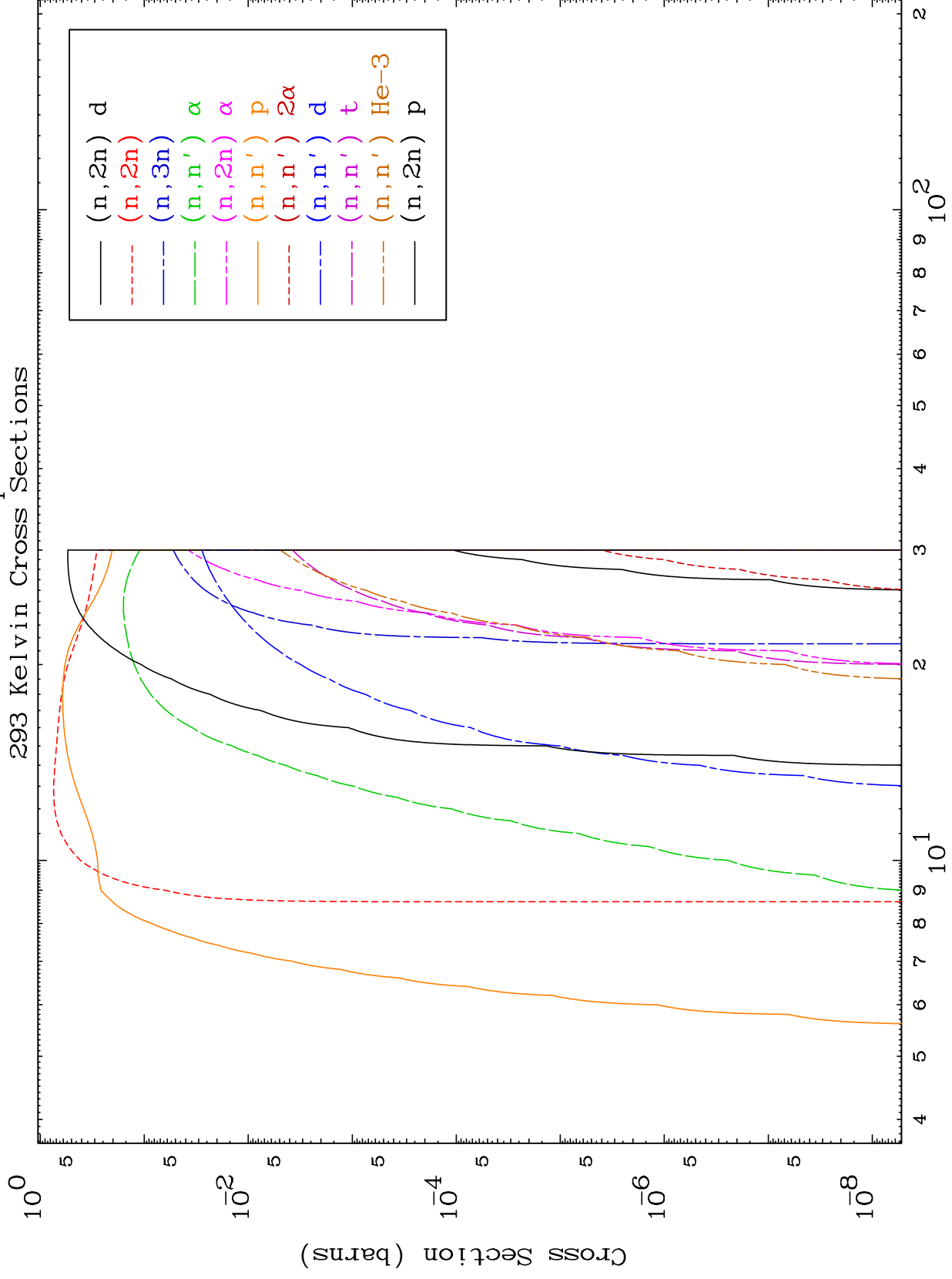
Press Mouse Button to Start



MAT 4311

Neutron Absorption
293 Kelvin Cross Sections

43-Tc-94m



2

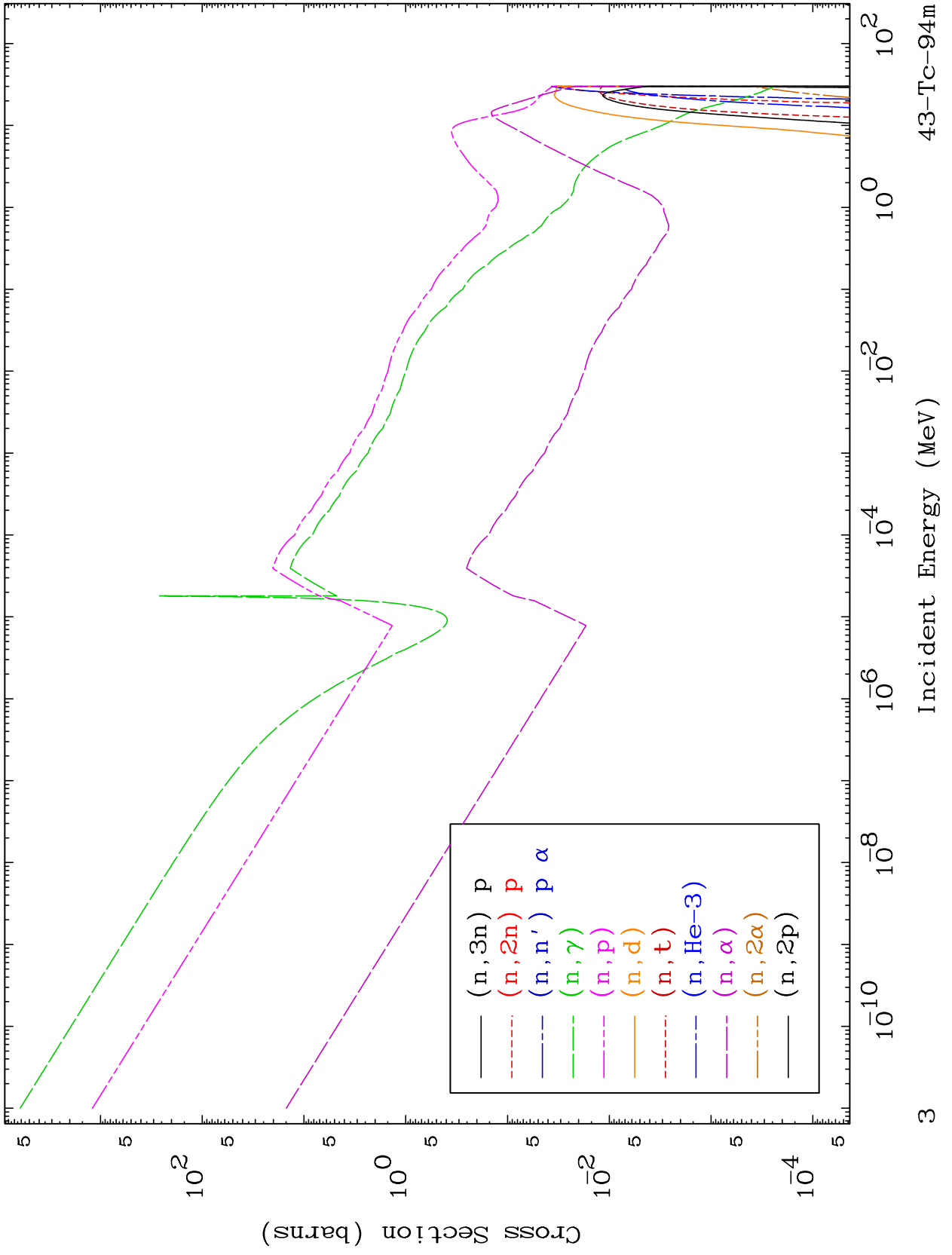
Incident Energy (MeV)

43-Tc-94m

MAT 4311

Neutron Absorption
293 Kelvin Cross Sections

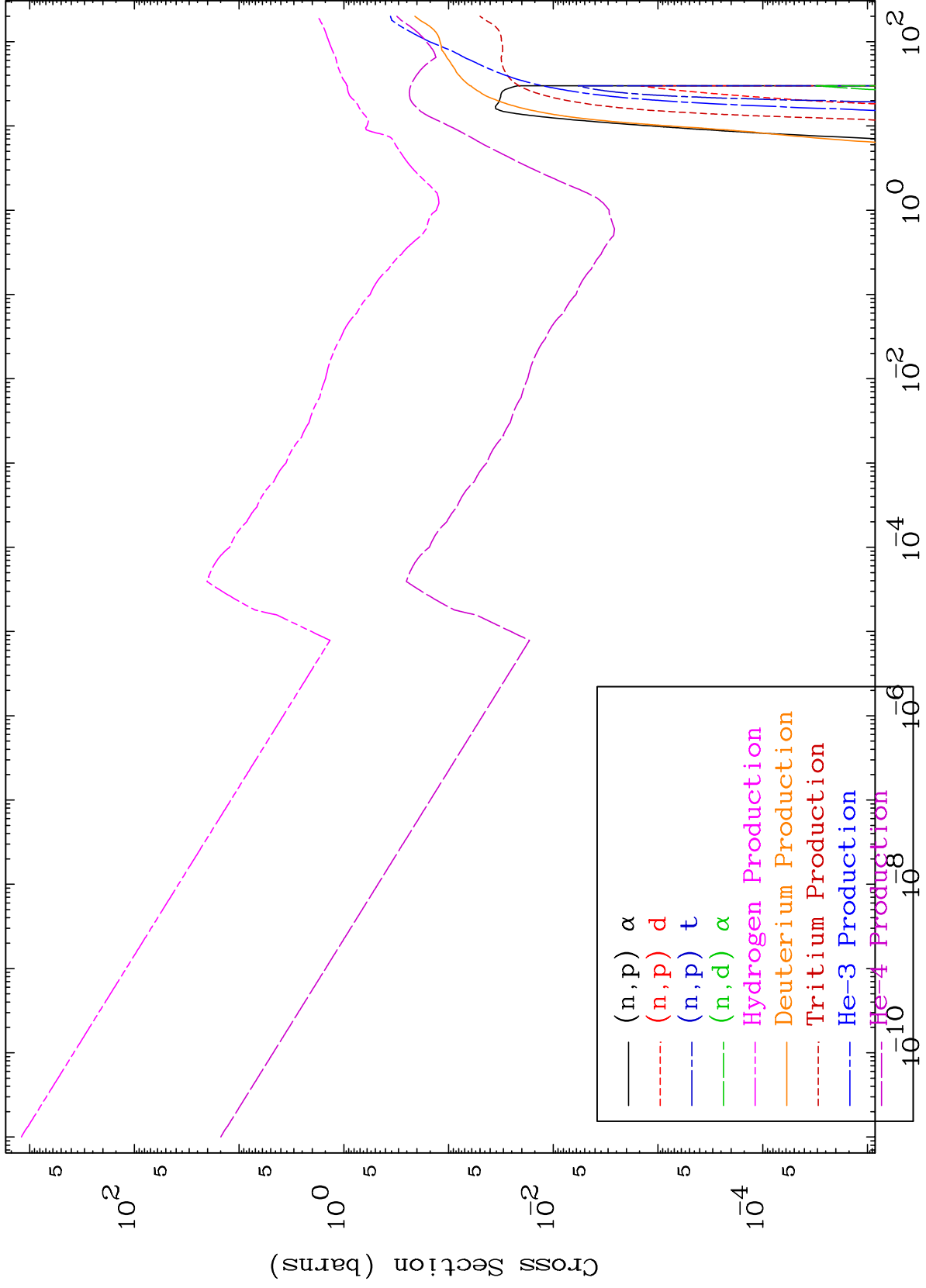
43-Tc-94m



MAT 4311

Neutron Absorption
293 Kelvin Cross Sections

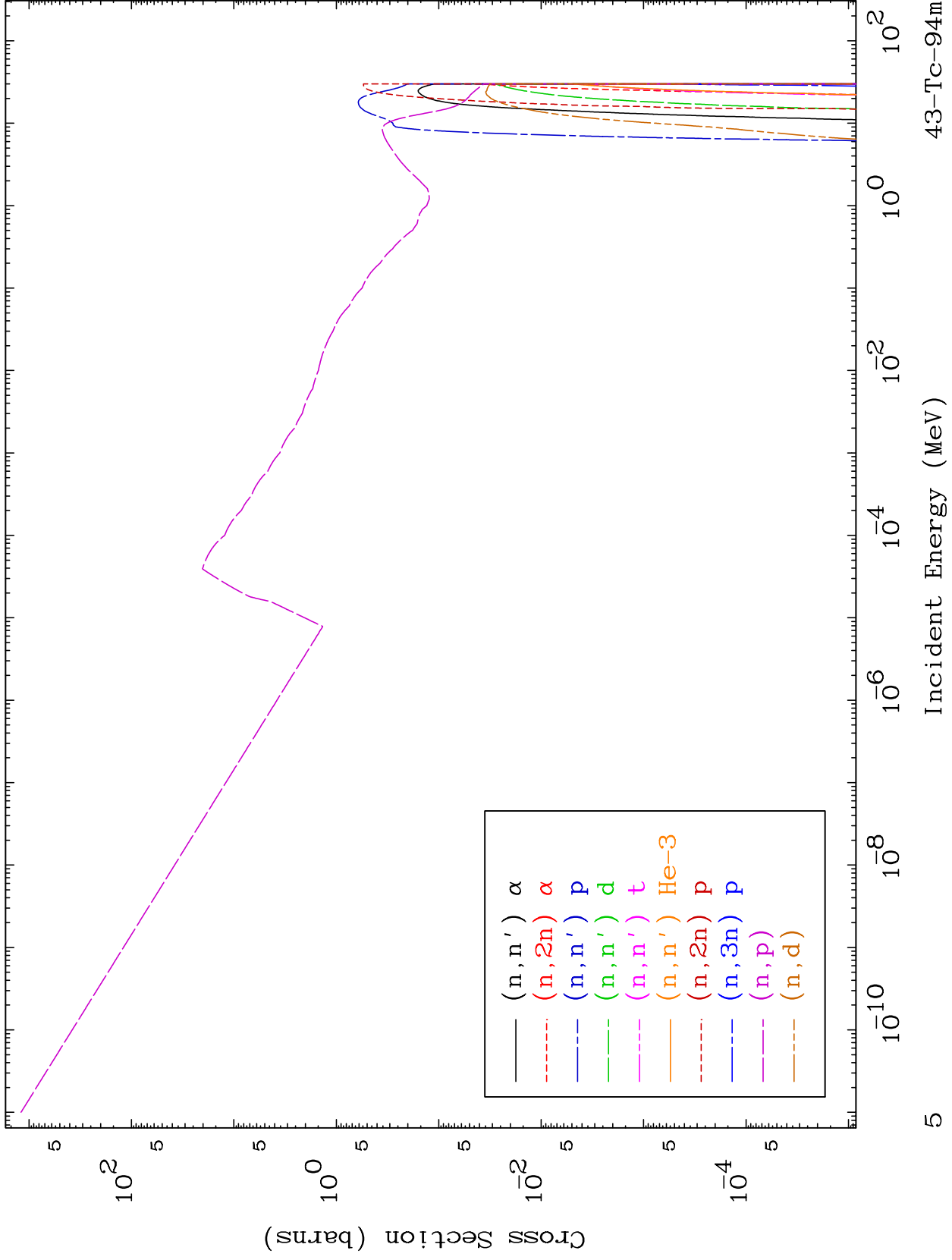
43-Tc-94m



MAT 4311

Charged Particle
293 Kelvin Cross Sections

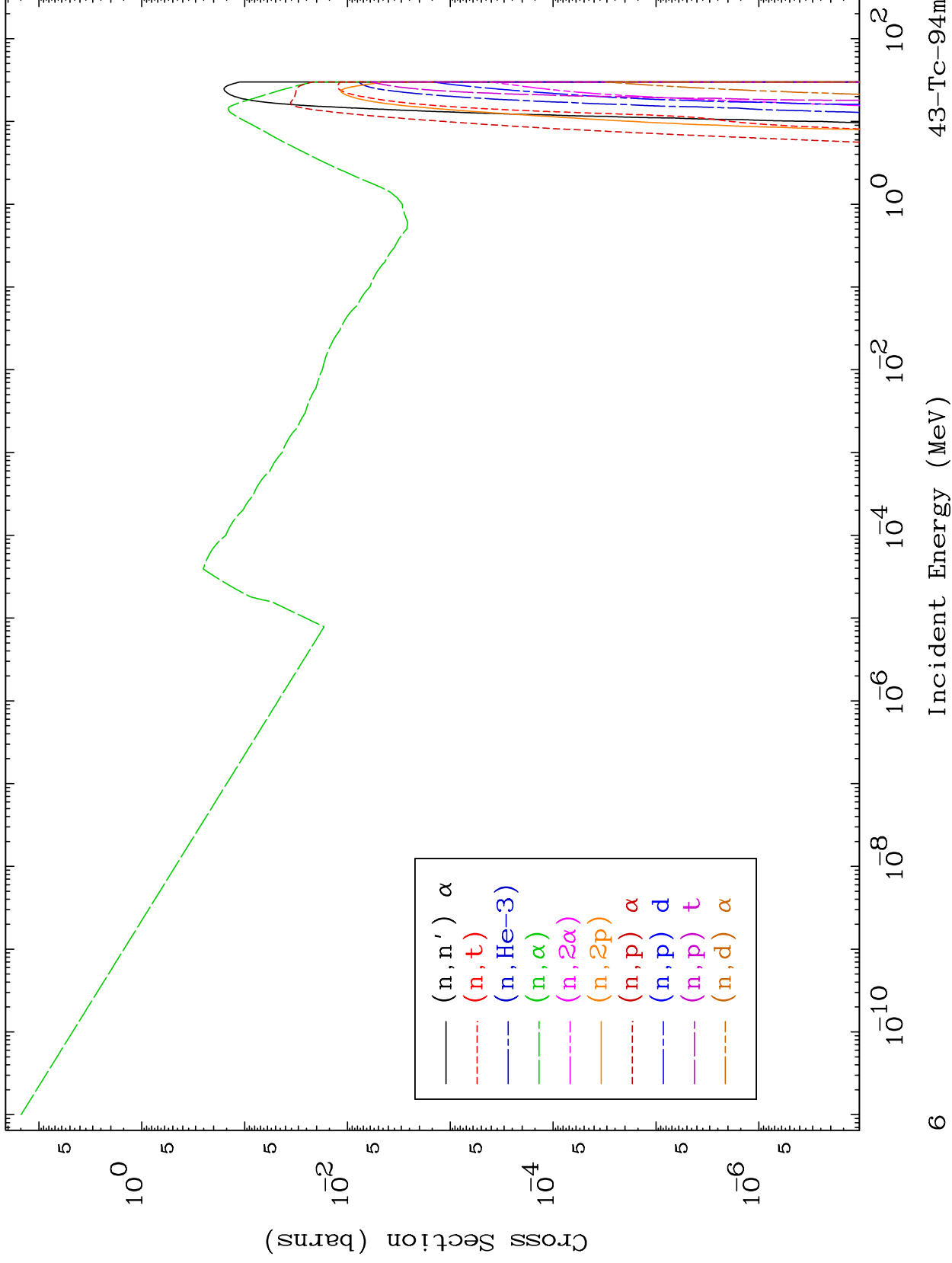
43-Tc-94m



MAT 4311

Charged Particle
293 Kelvin Cross Sections

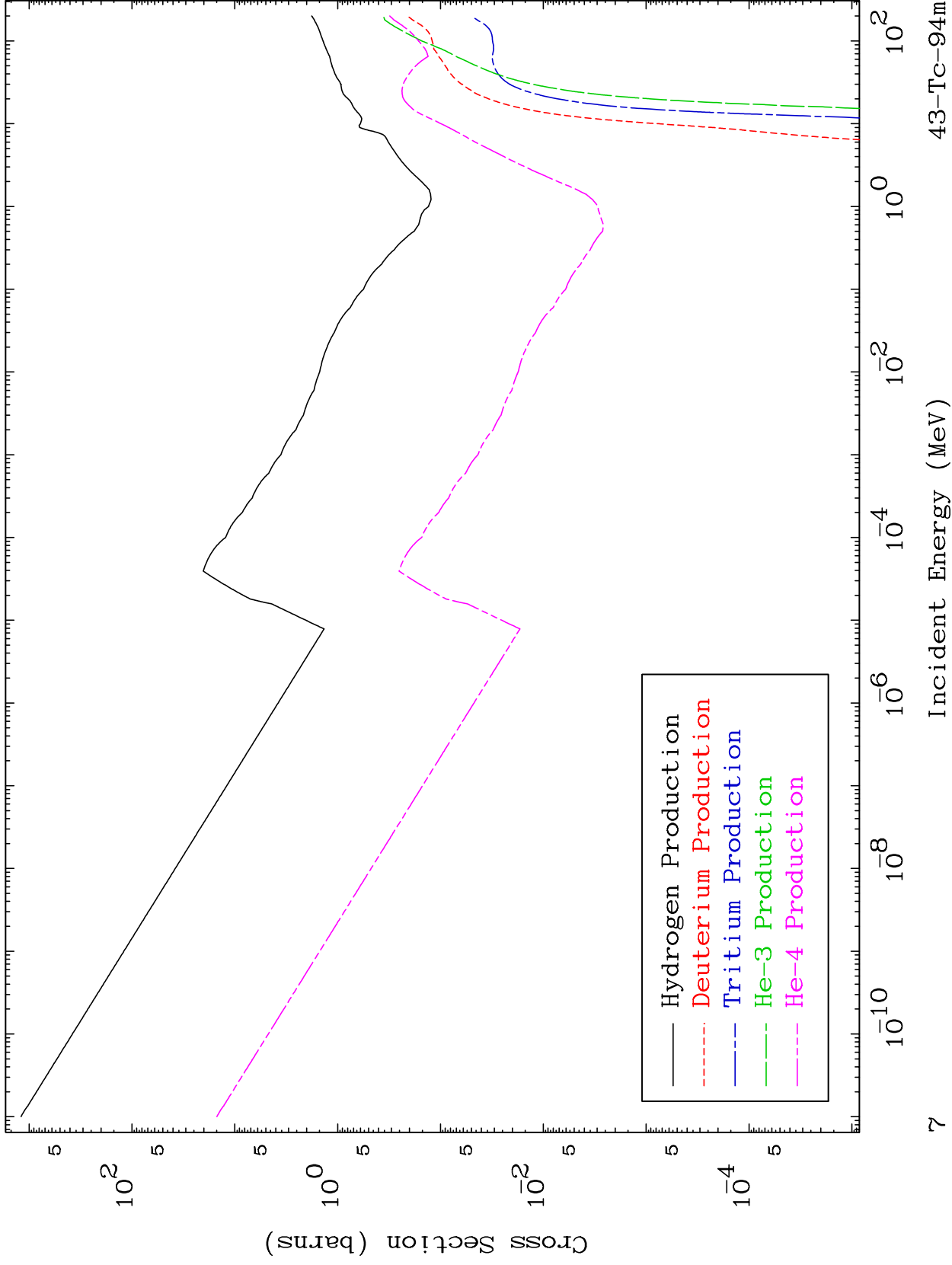
43-Tc-94m



MAT 4311

Particle Production
293 Kelvin Cross Sections

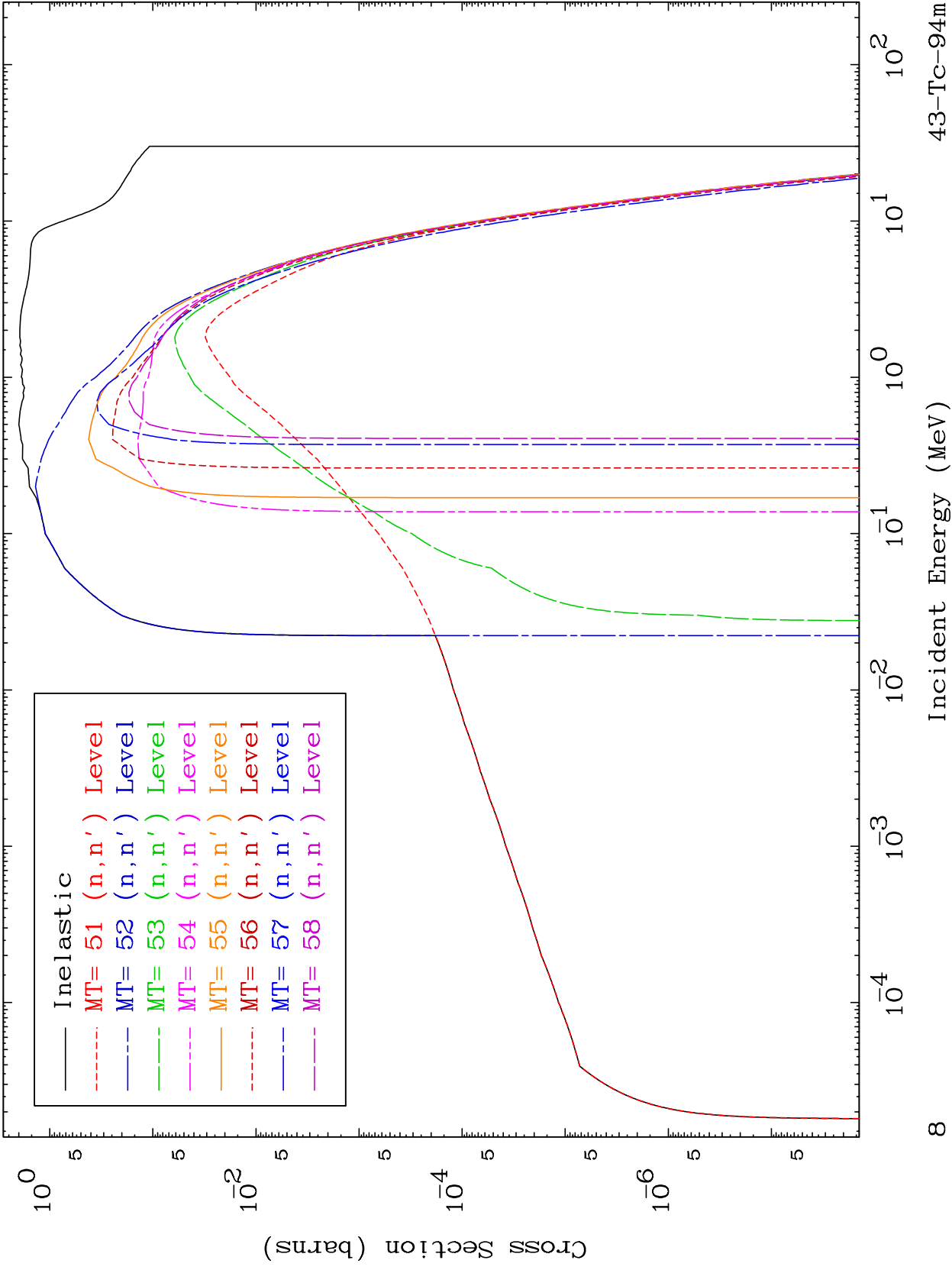
43-Tc-94m



MAT 4311

293 Kelvin Cross Sections
(n,n') Levels

43-Tc-94m

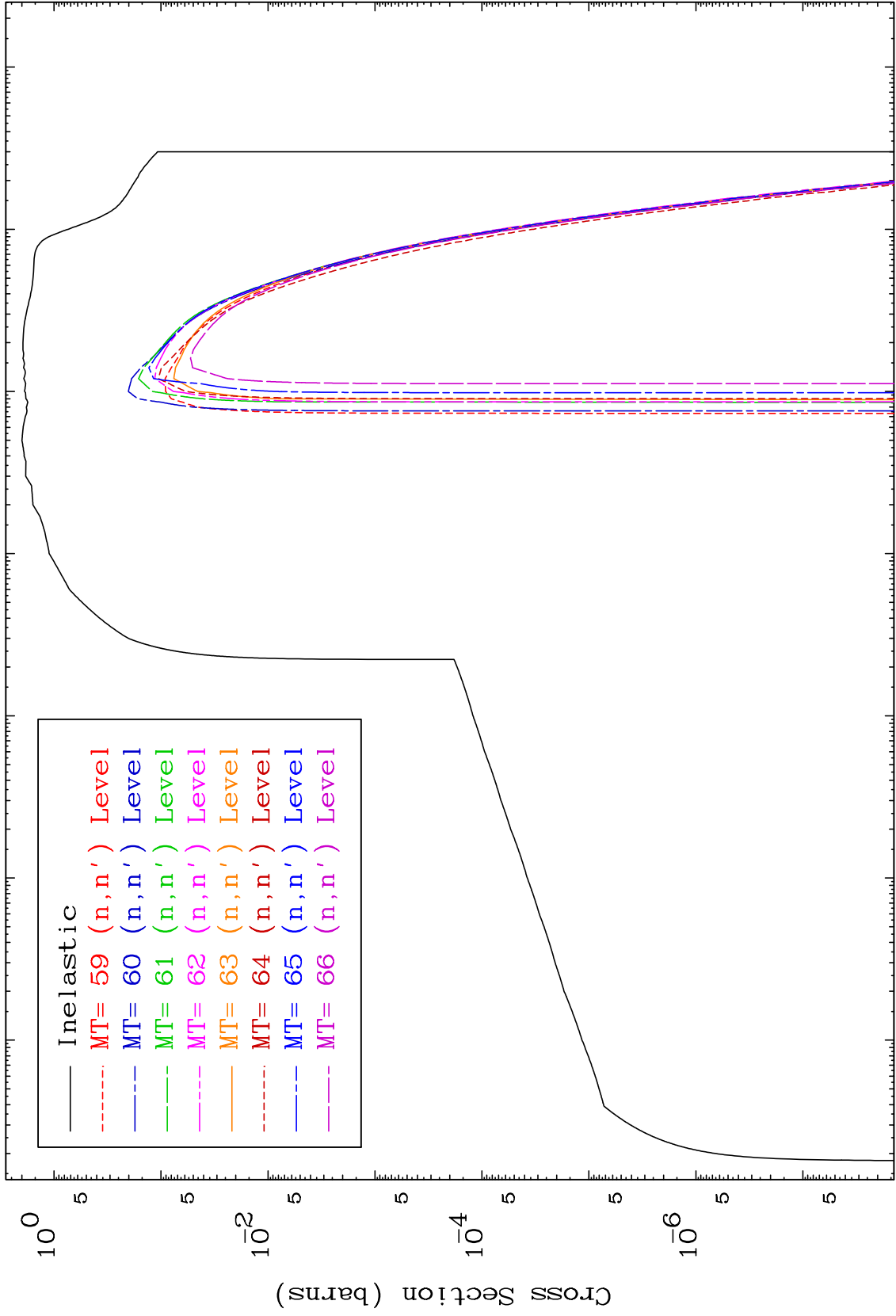


MAT 4311

(n,n') Levels

43-Tc-94m

293 Kelvin Cross Sections

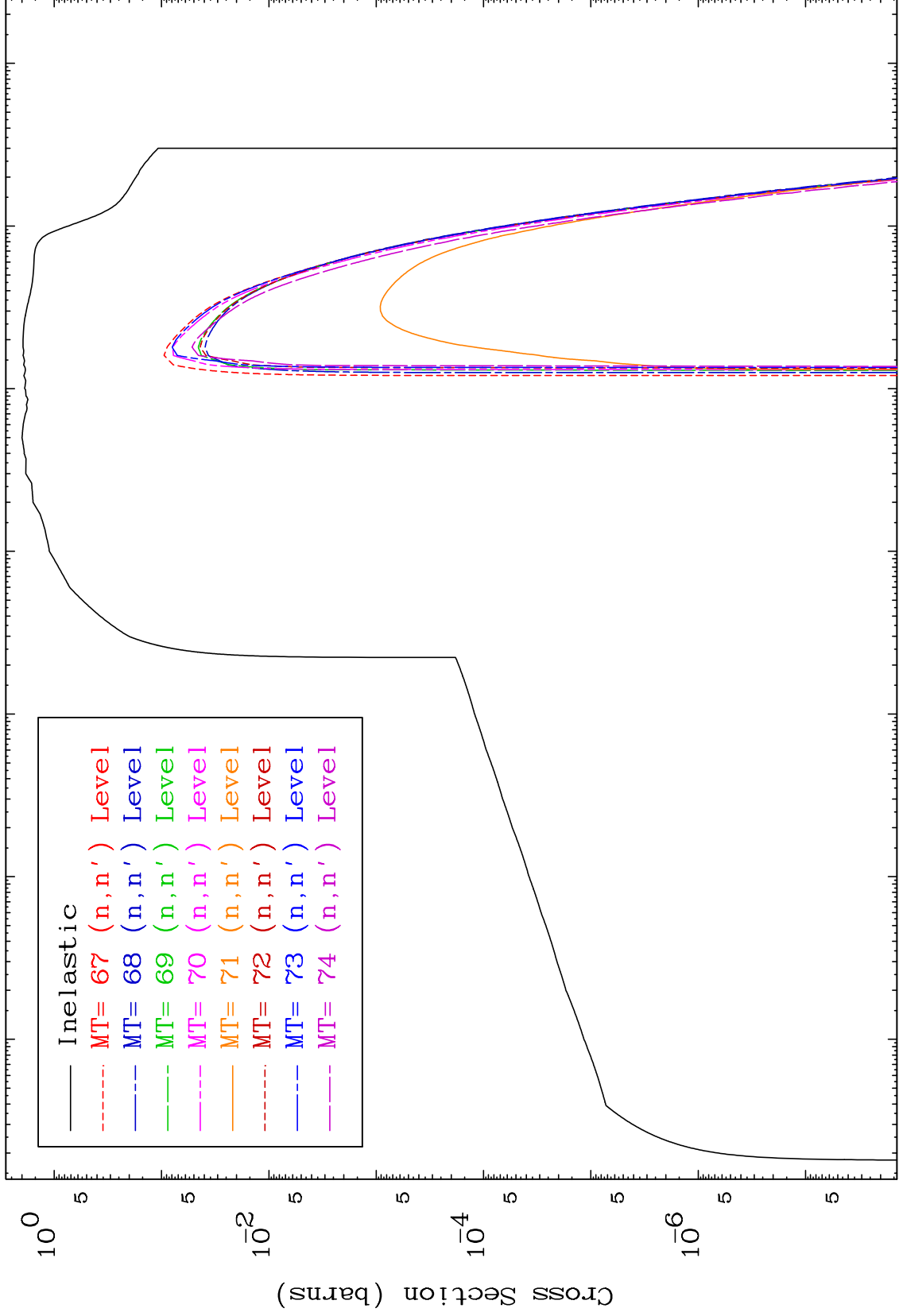


MAT 4311

(n,n') Levels

43-Tc-94m

293 Kelvin Cross Sections



43-Tc-94m

Incident Energy (MeV)

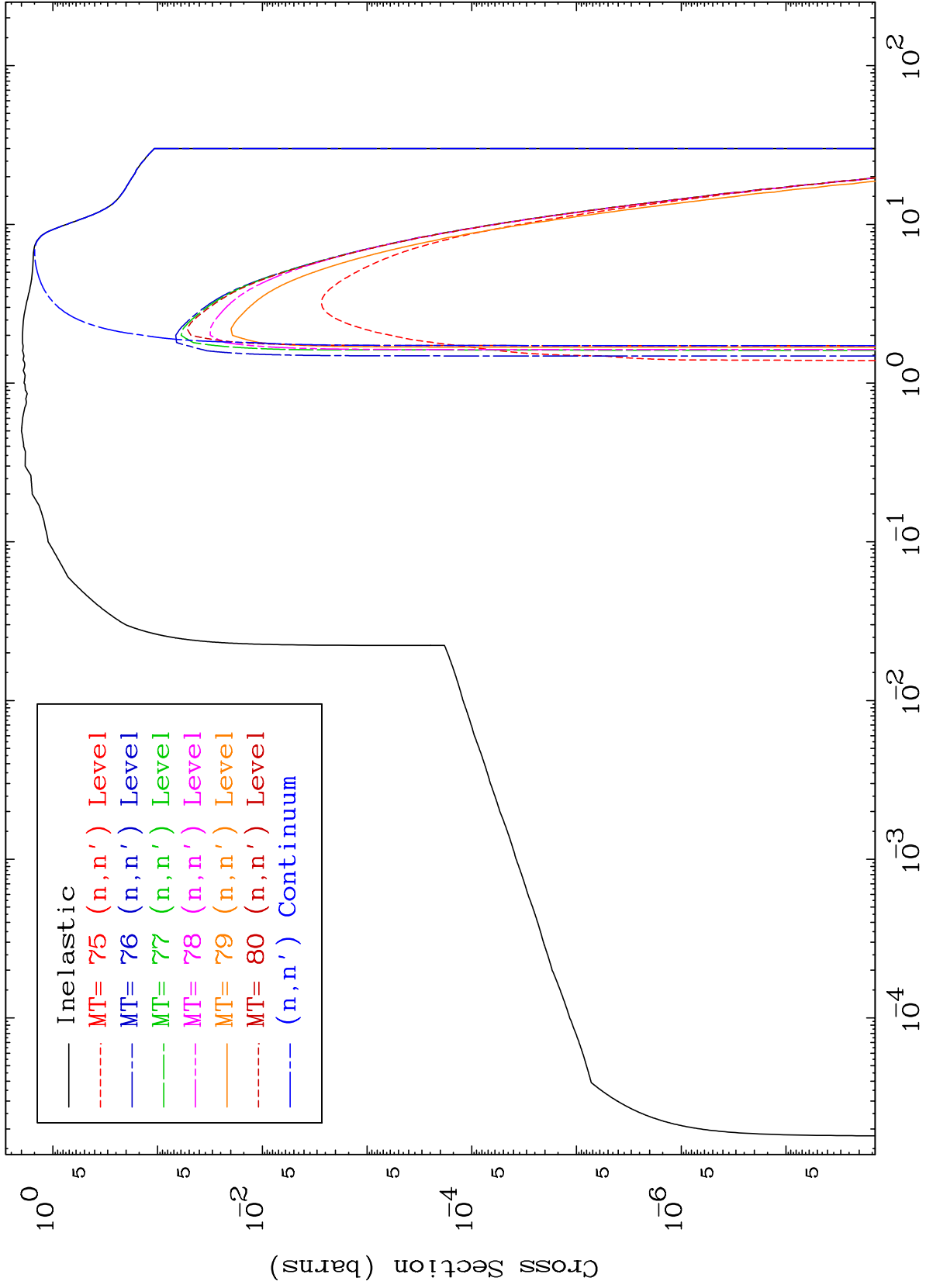
10

MAT 4311

(n,n') Levels

43-Tc-94m

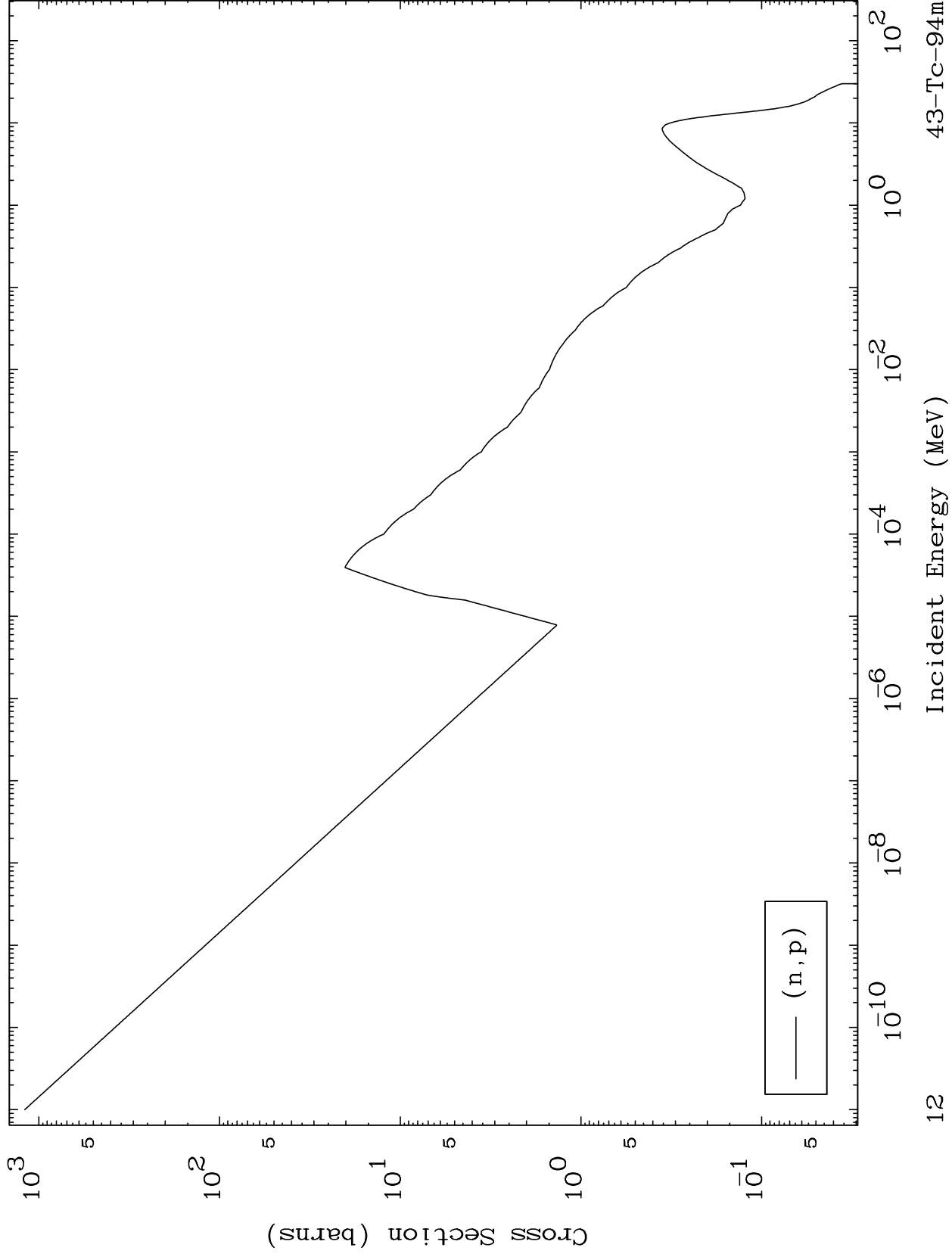
293 Kelvin Cross Sections



MAT 4311

(n,p) Levels
293 Kelvin Cross Sections

43-Tc-94m

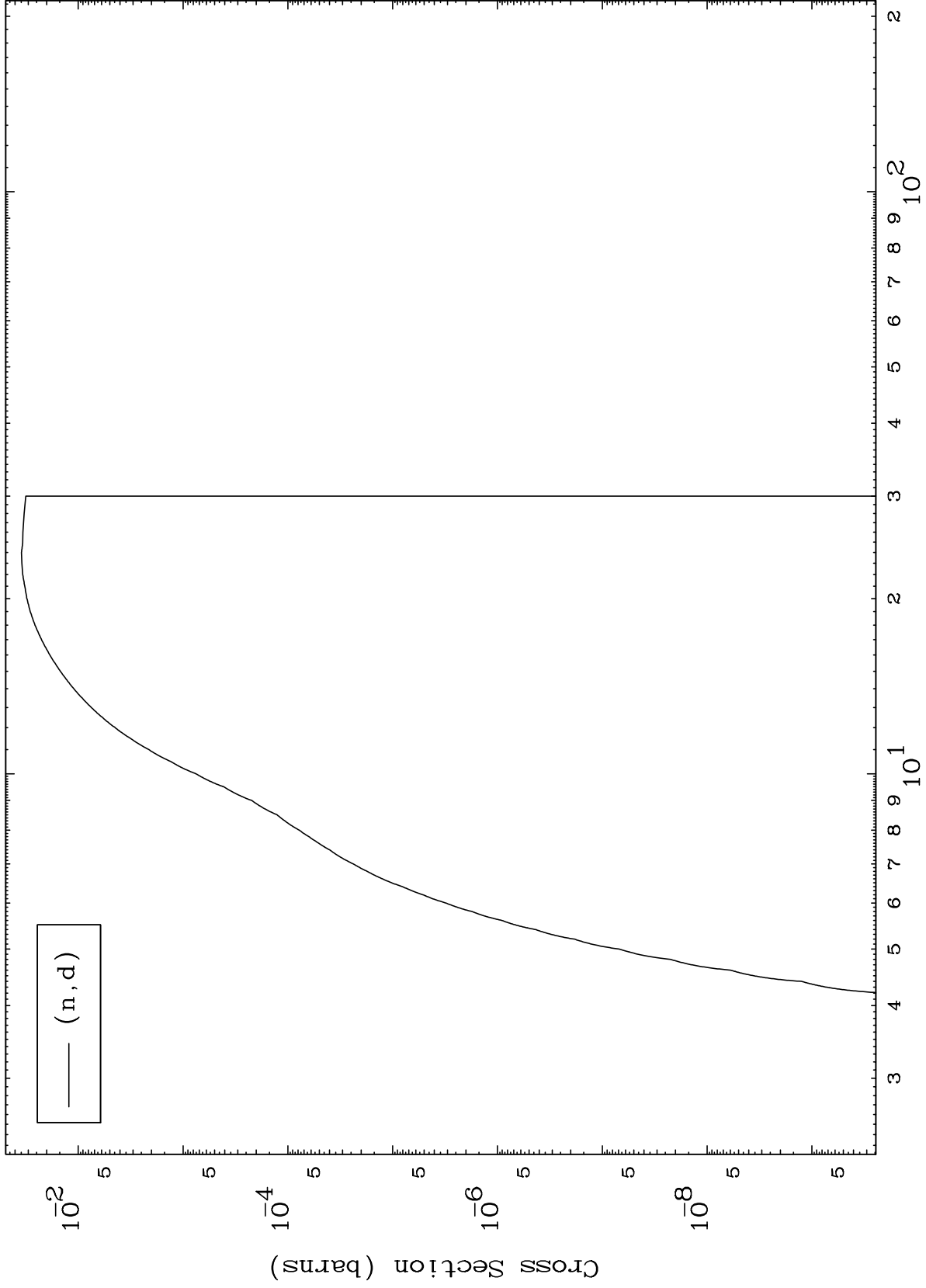


12

MAT 4311

(n,d) Levels
293 Kelvin Cross Sections

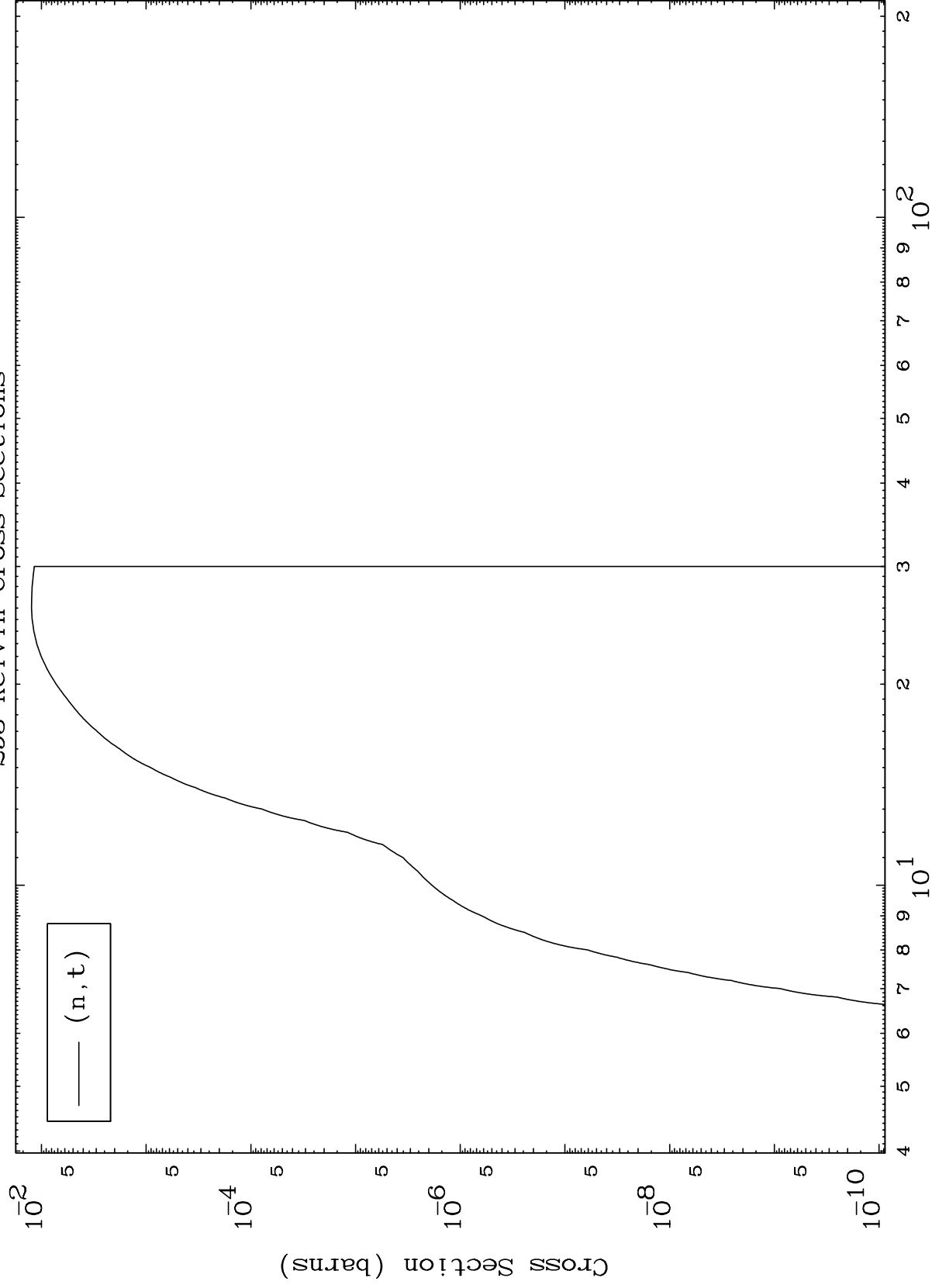
43-Tc-94m



MAT 4311

(n,t) Levels
293 Kelvin Cross Sections

43-Tc-94m



14

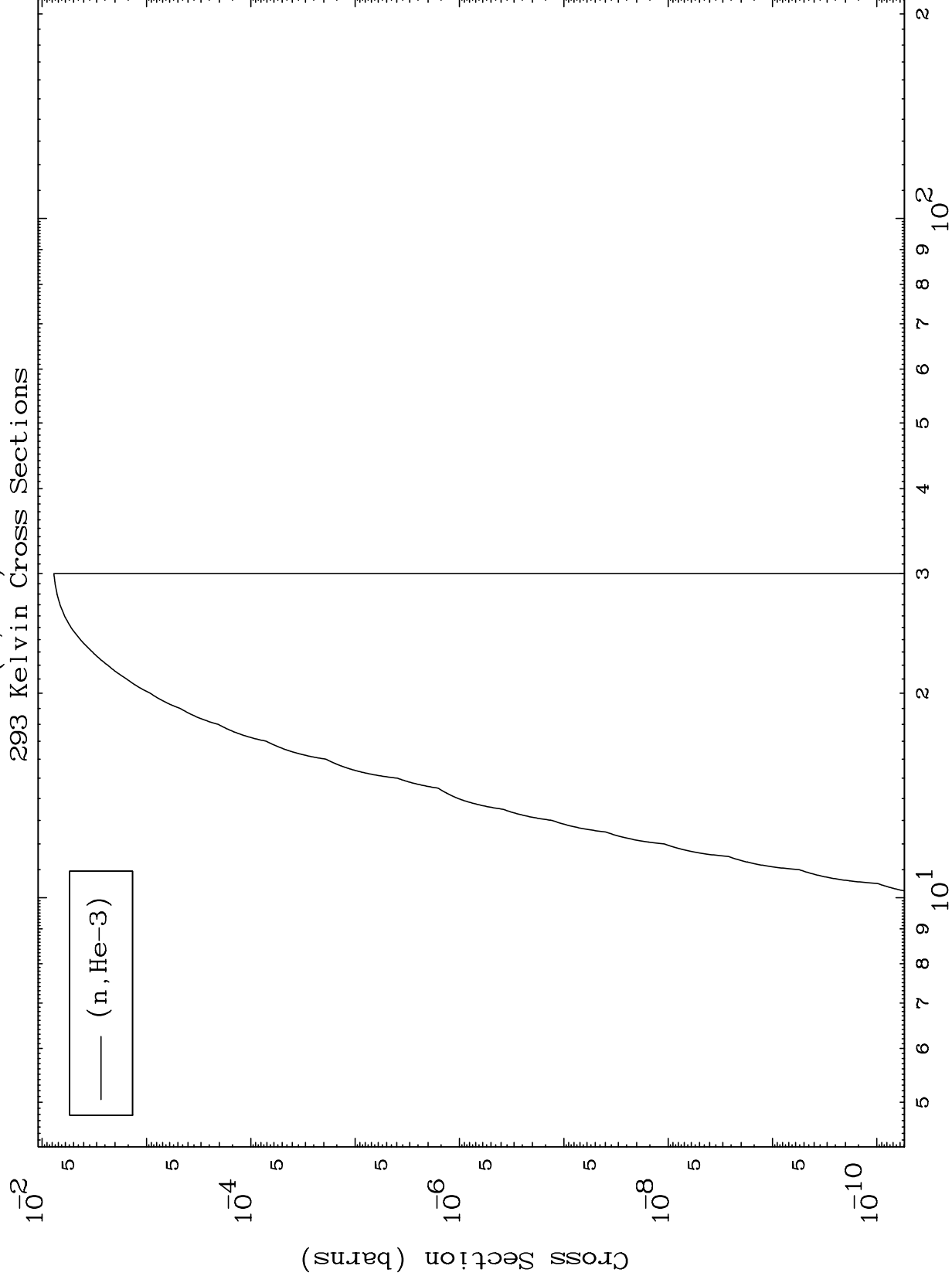
Incident Energy (MeV)

43-Tc-94m

MAT 4311

(n,He3) Levels
293 Kelvin Cross Sections

43-Tc-94m



15

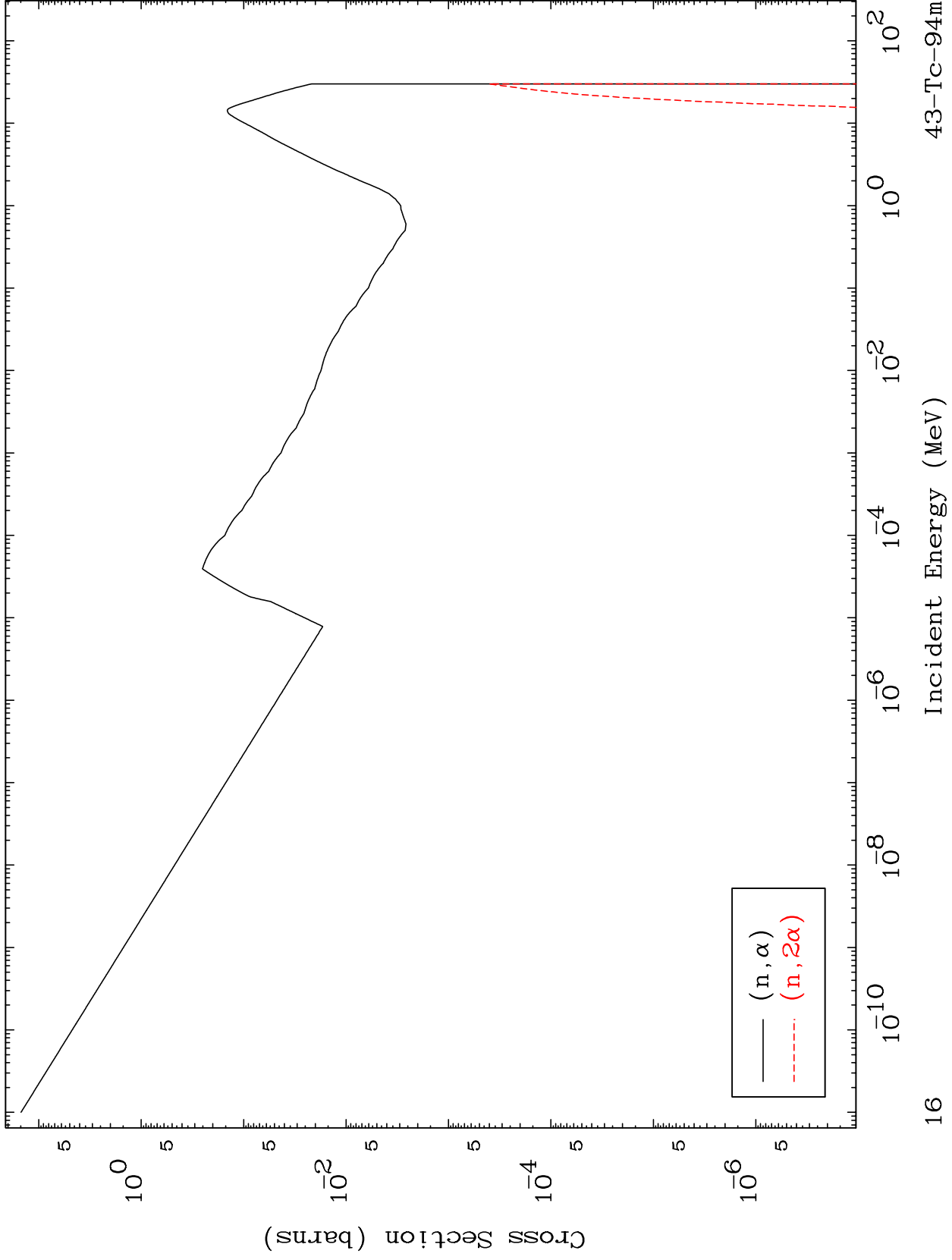
Incident Energy (MeV)

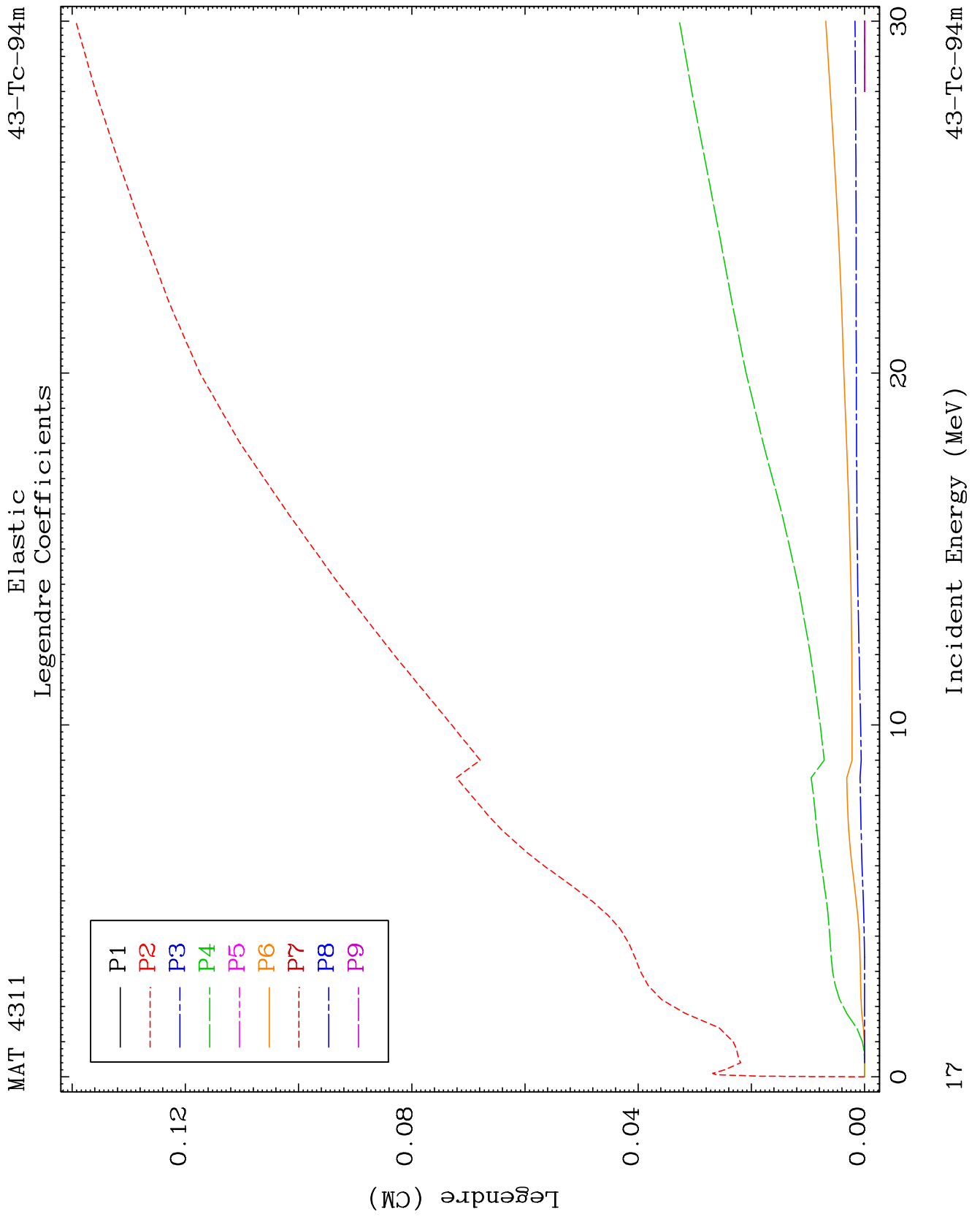
43-Tc-94m

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(n,α) Levels
293 Kelvin Cross Sections

43-Tc-94m

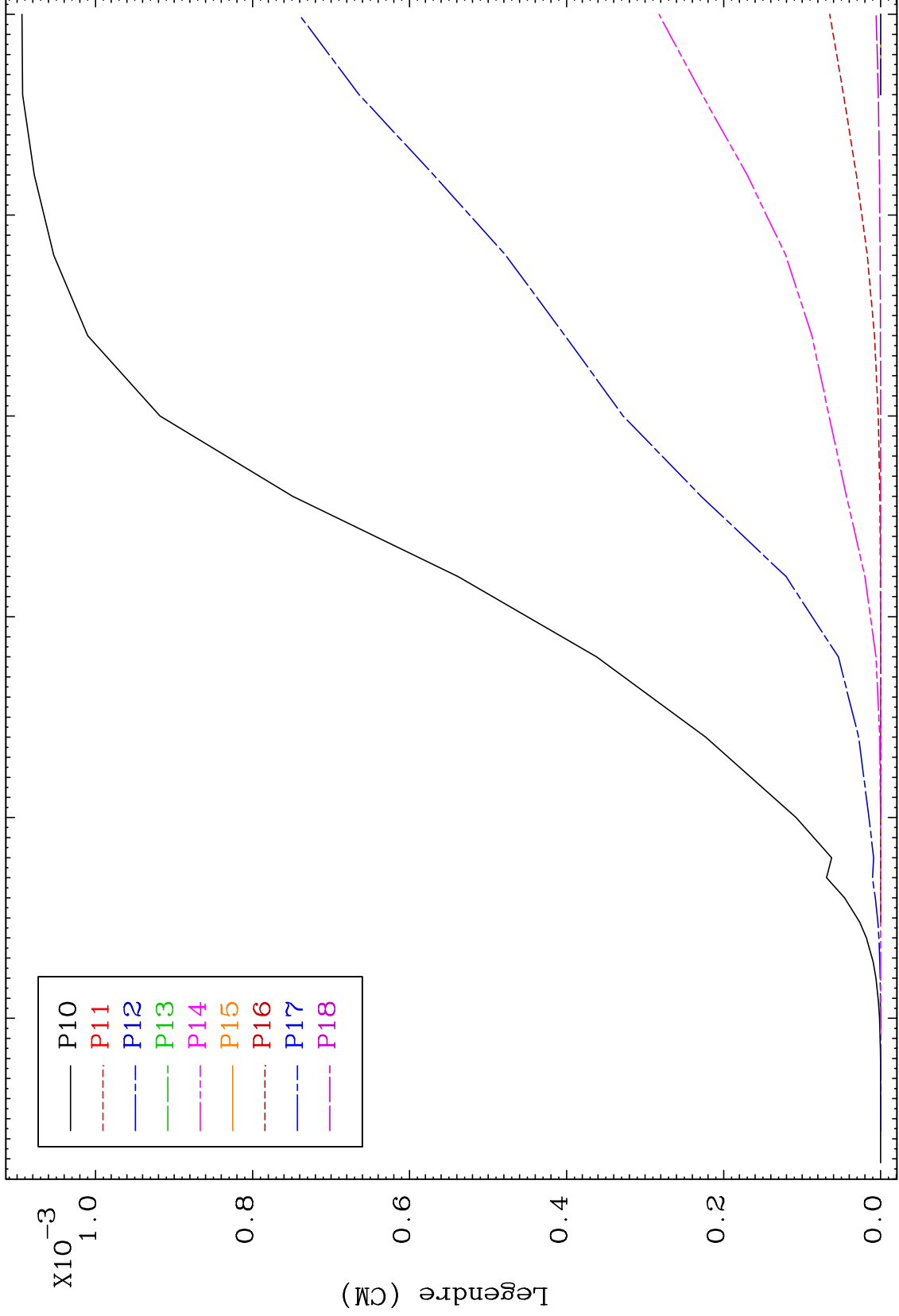




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Elastic Legendre Coefficients

43-Tc-94m



18

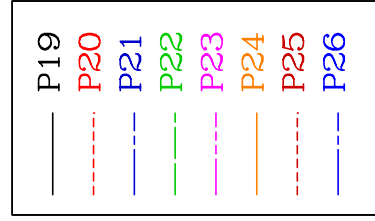
Incident Energy (MeV)

43-Tc-94m

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Elastic
Legendre Coefficients

43-Tc-94m



$\times 10^{-7}$
3

Legendre (CM)

2

1

0

15

20

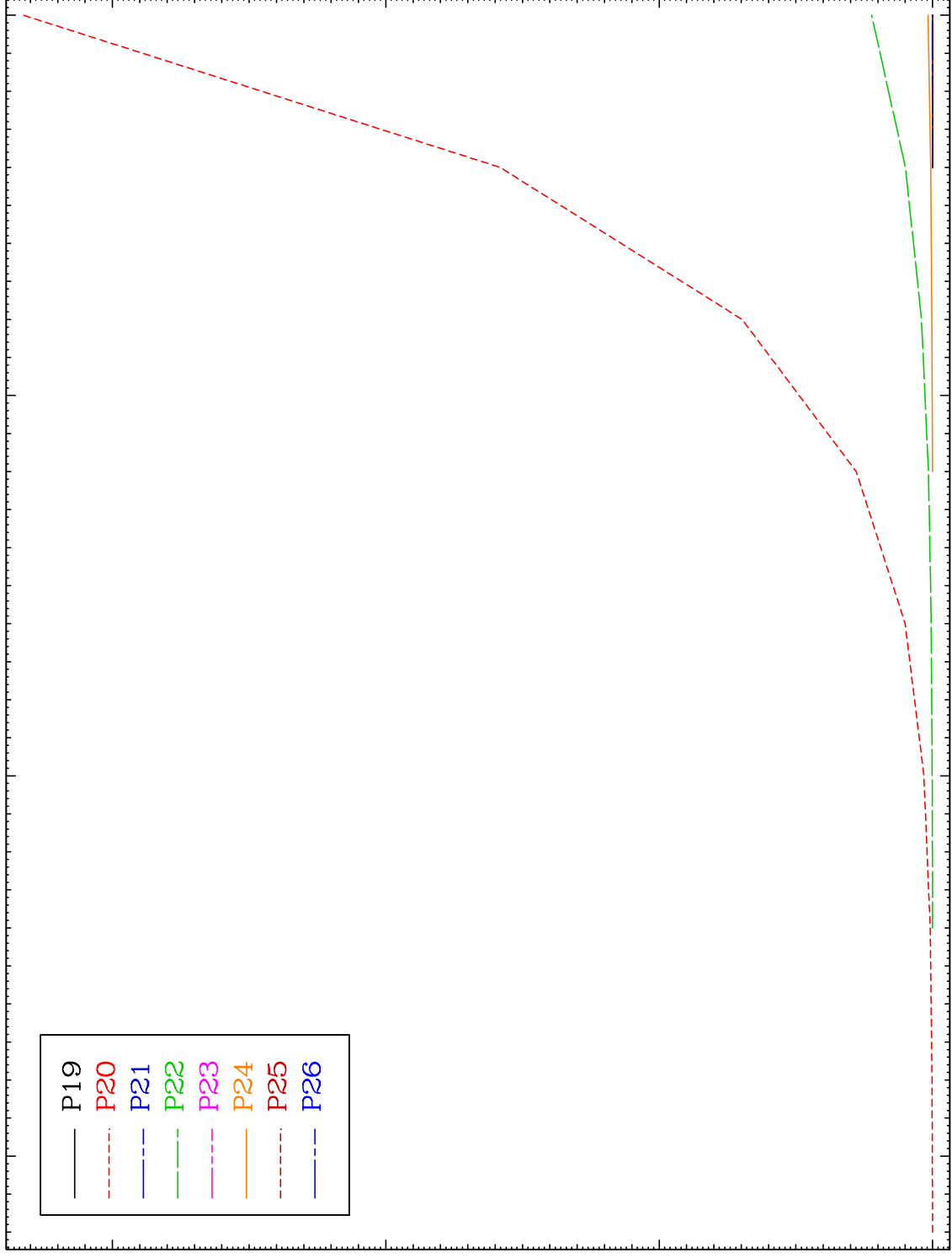
25

30

19

Incident Energy (MeV)

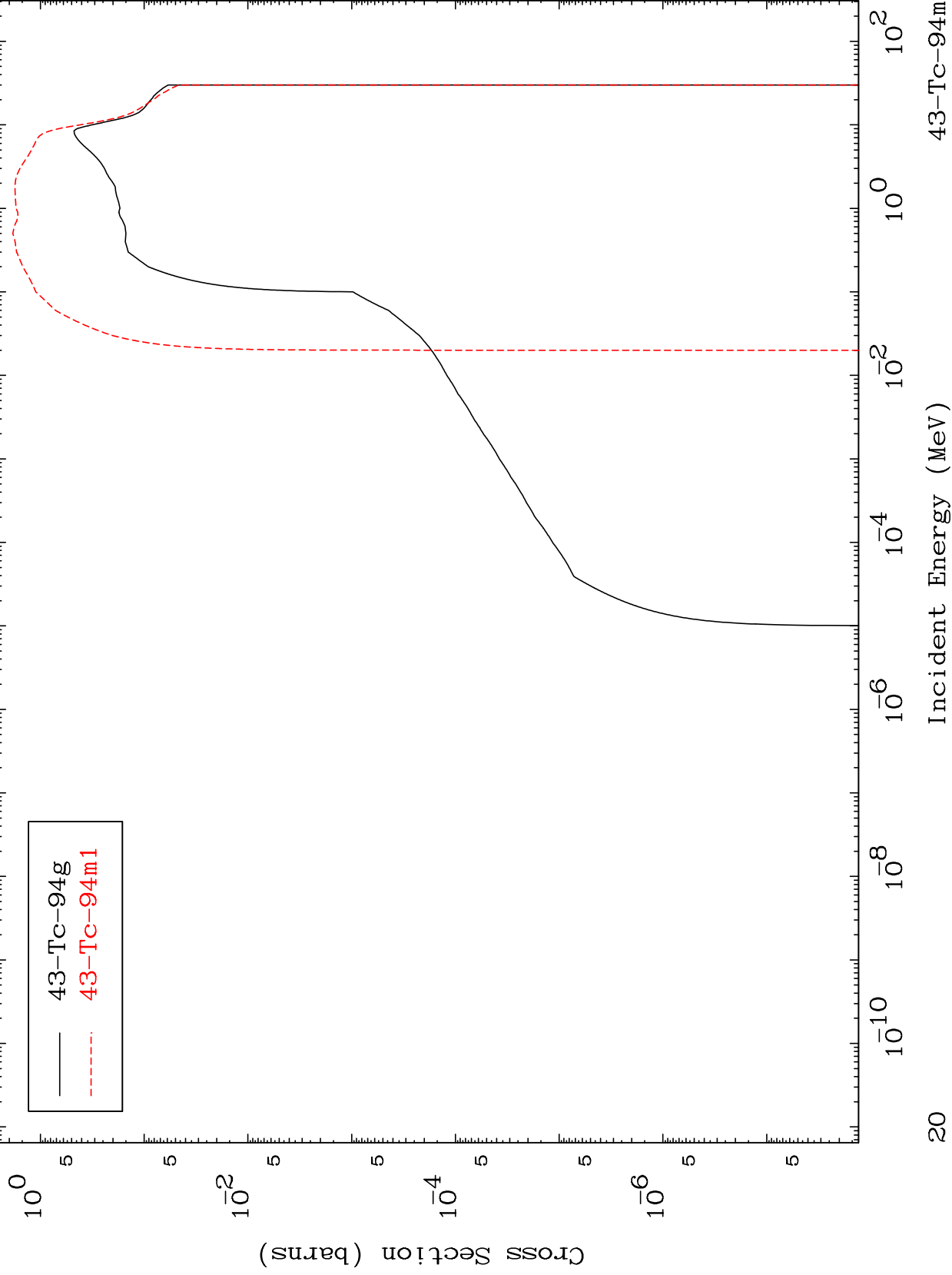
43-Tc-94m



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Inelastic
Radionuclide Production Cross Section

⁴³Tc-^{94m}

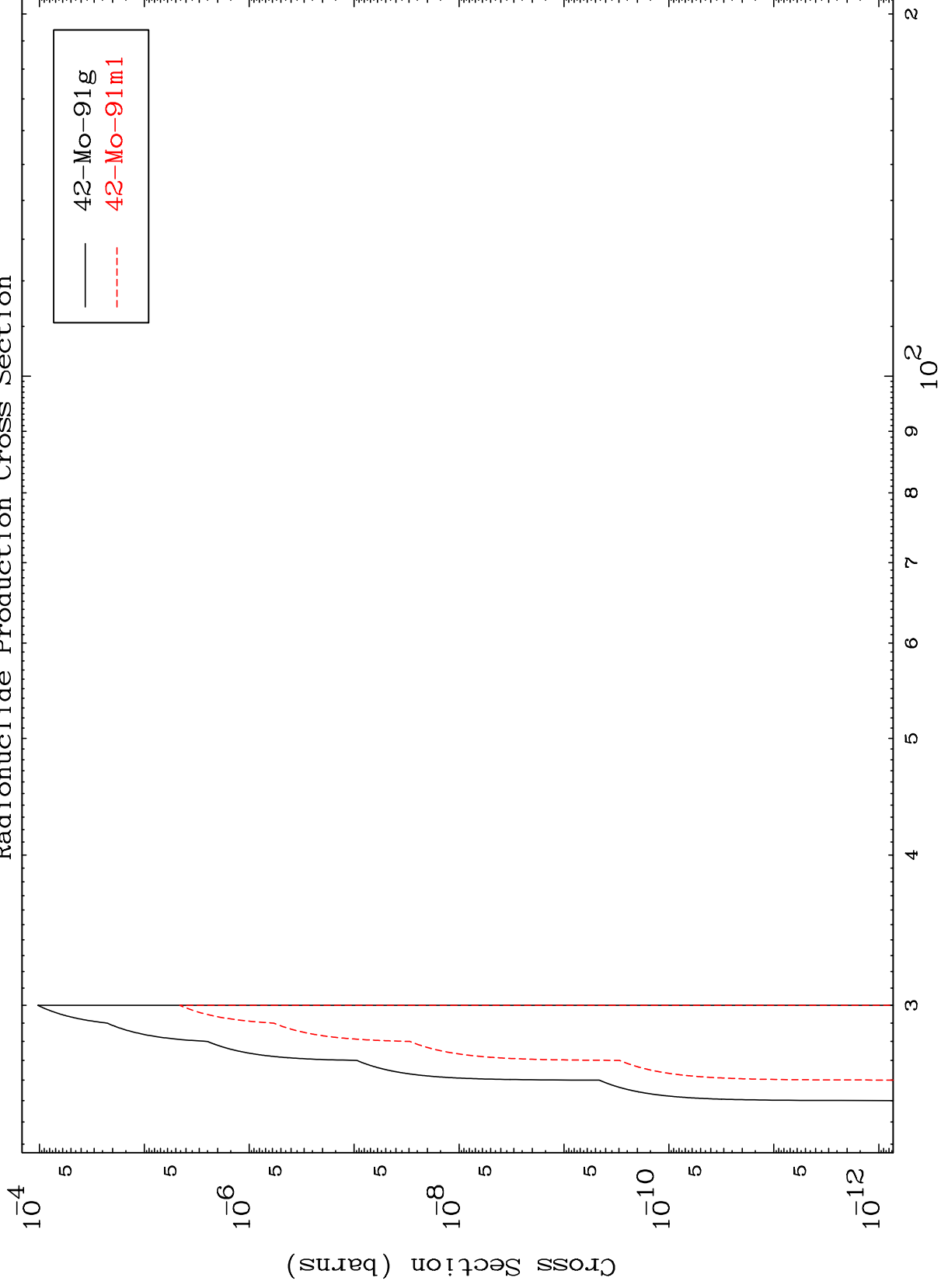


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(n,2n) d

43-Tc-94m

Radionuclide Production Cross Section



21

Incident Energy (MeV)

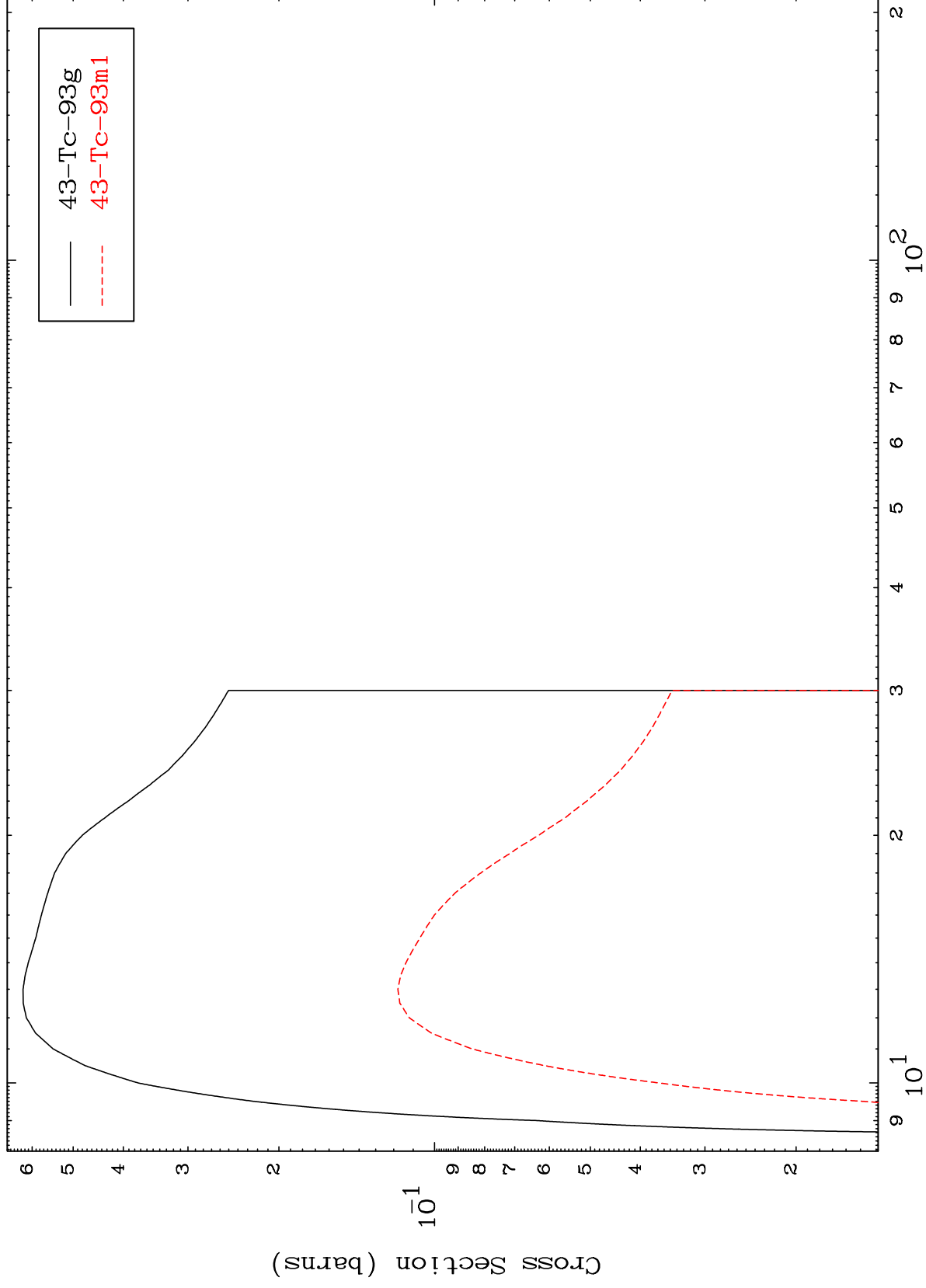
43-Tc-94m

MAT 4311

43-Tc-94m

(n,2n)

Radionuclide Production Cross Section



22

Incident Energy (MeV)

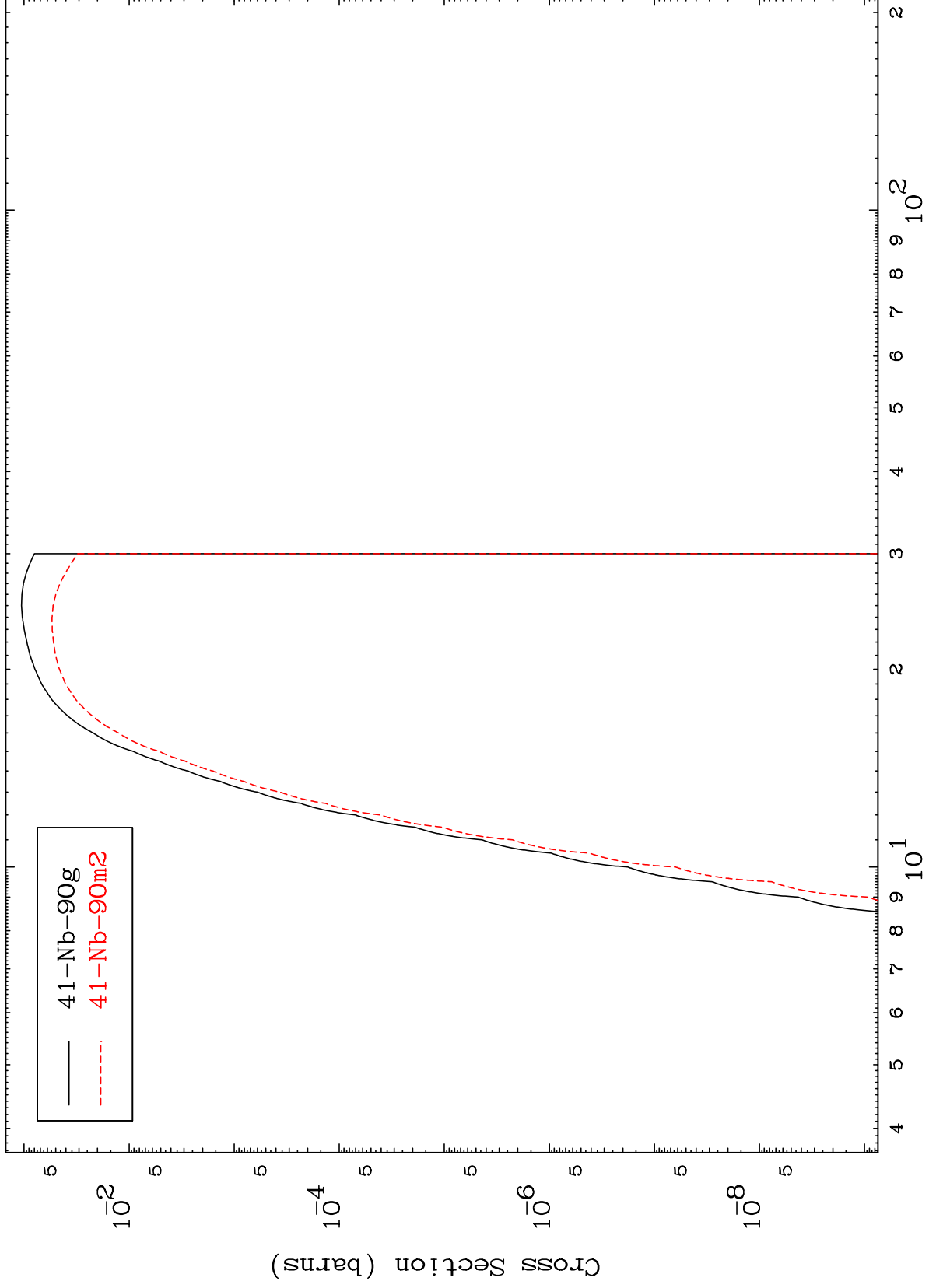
43-Tc-94m

MAT 4311

(n,n') α

43-Tc-94m

Radionuclide Production Cross Section



23

Incident Energy (MeV)

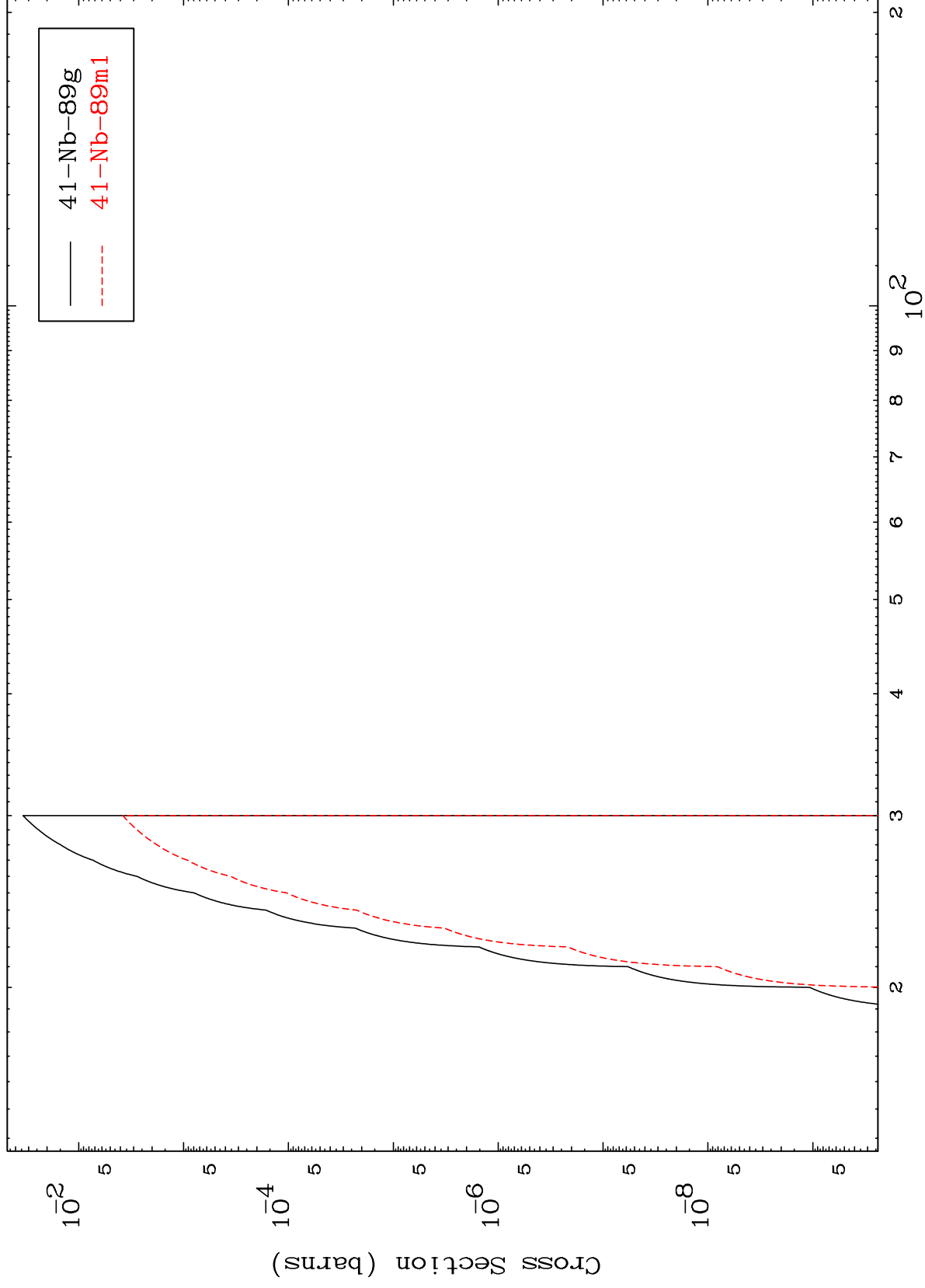
43-Tc-94m

MAT 4311

$(n,2n) \alpha$

43-Tc-94m

Radionuclide Production Cross Section



24

Incident Energy (MeV)

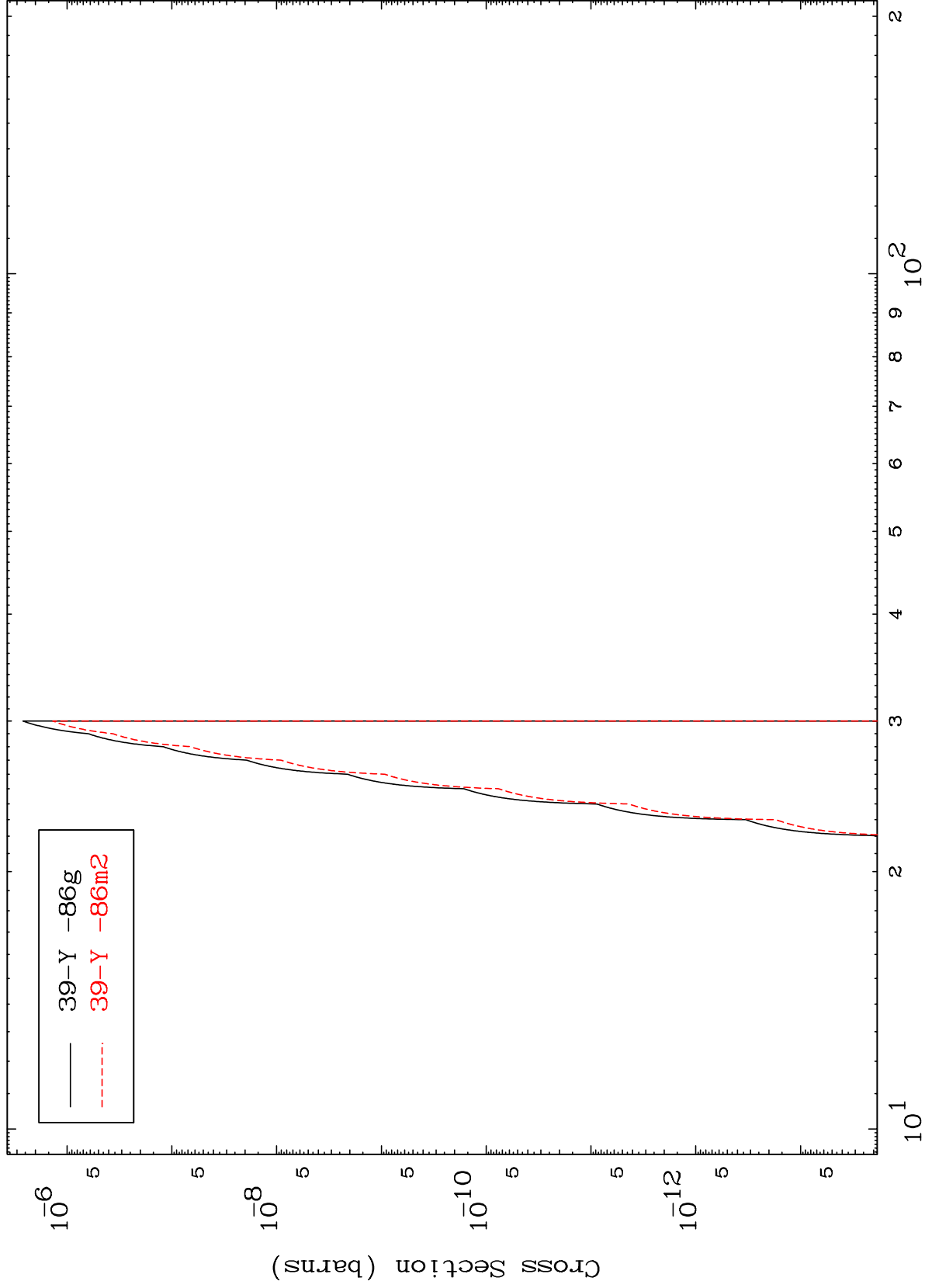
43-Tc-94m

MAT 4311

(n,n') 2α

43-Tc-94m

Radionuclide Production Cross Section

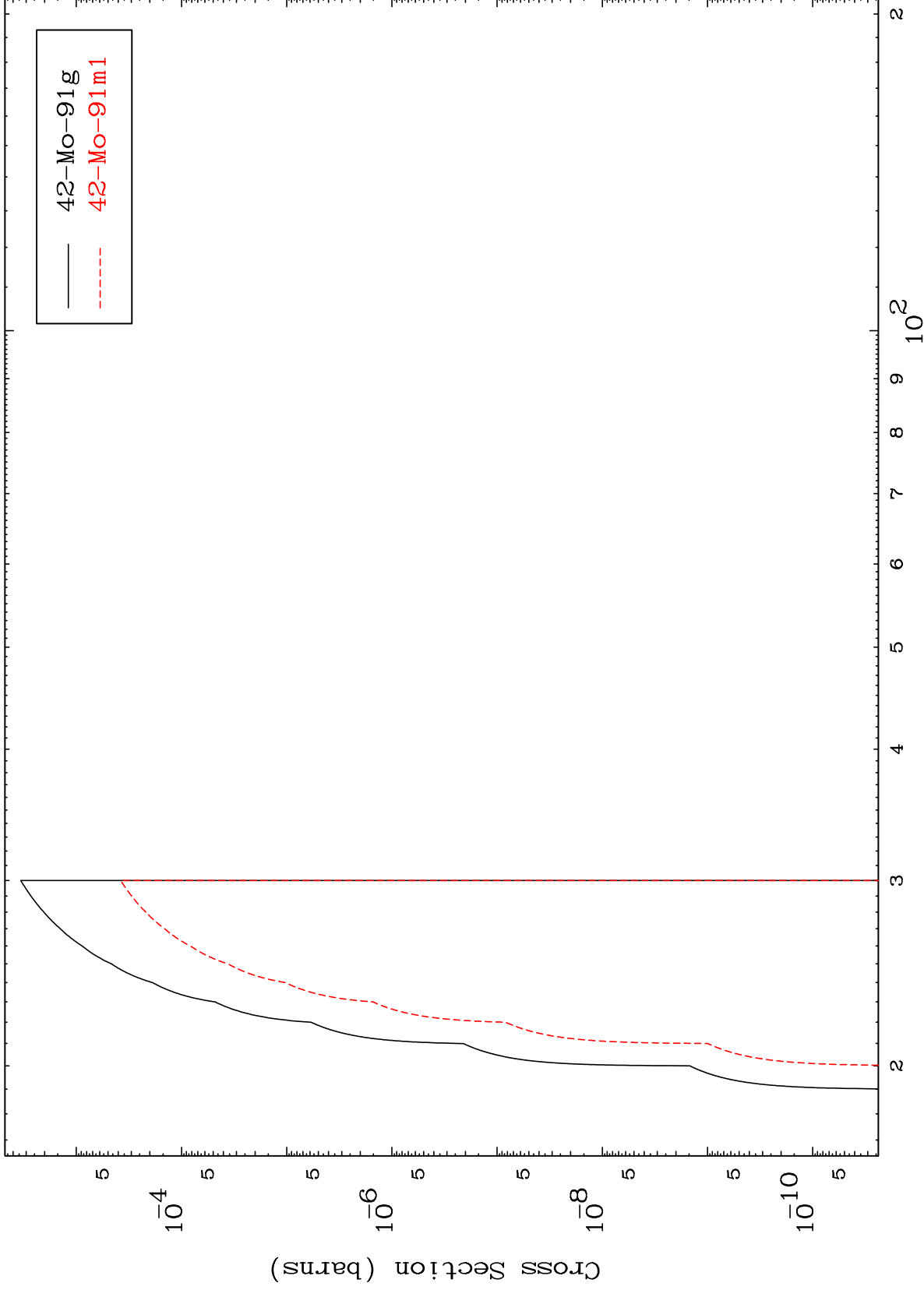


25

Incident Energy (MeV)

43-Tc-94m

Radionuclide Production Cross Section

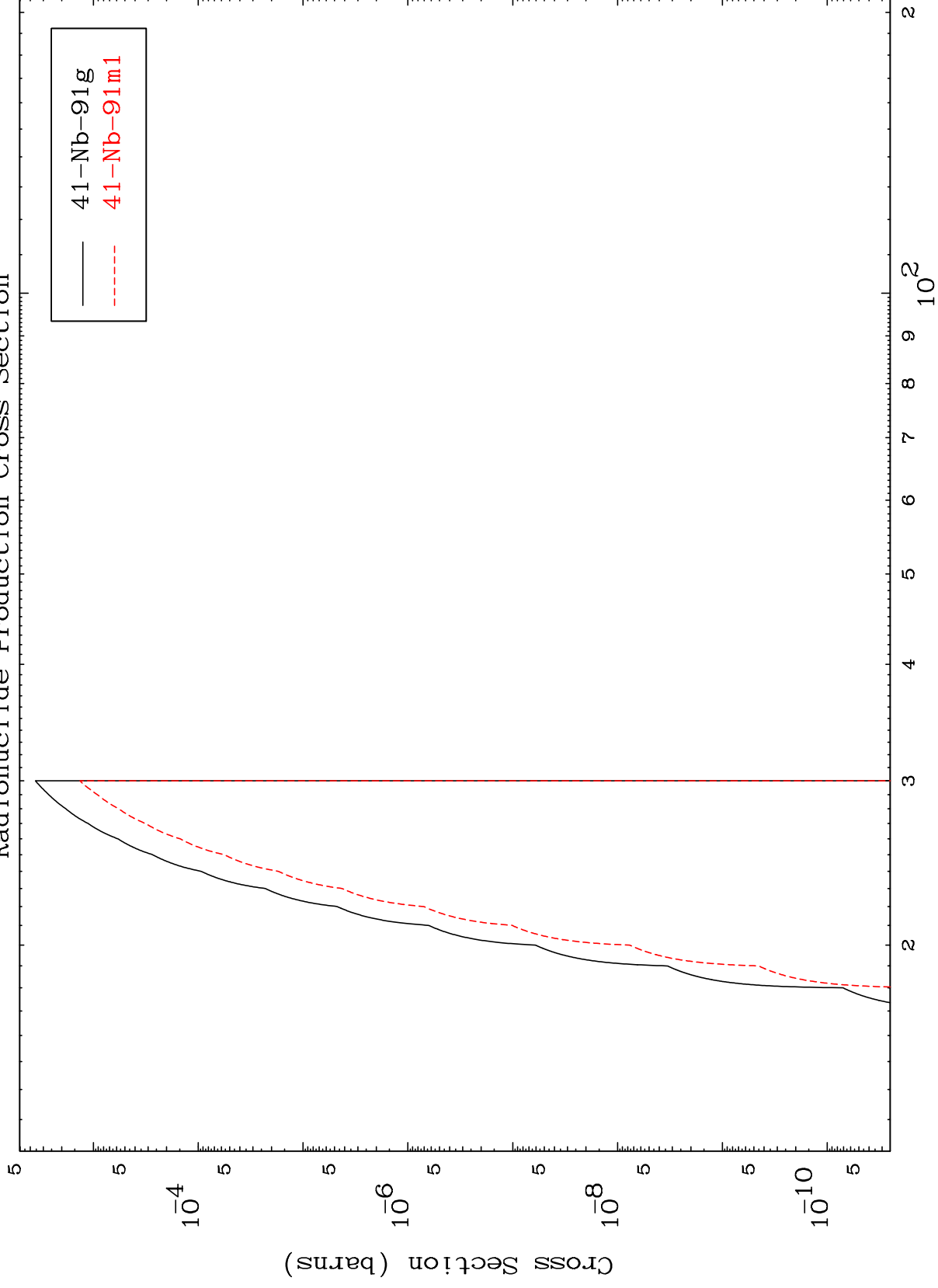


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(n,n') He-3

43-Tc-94m

Radionuclide Production Cross Section



27

Incident Energy (MeV)

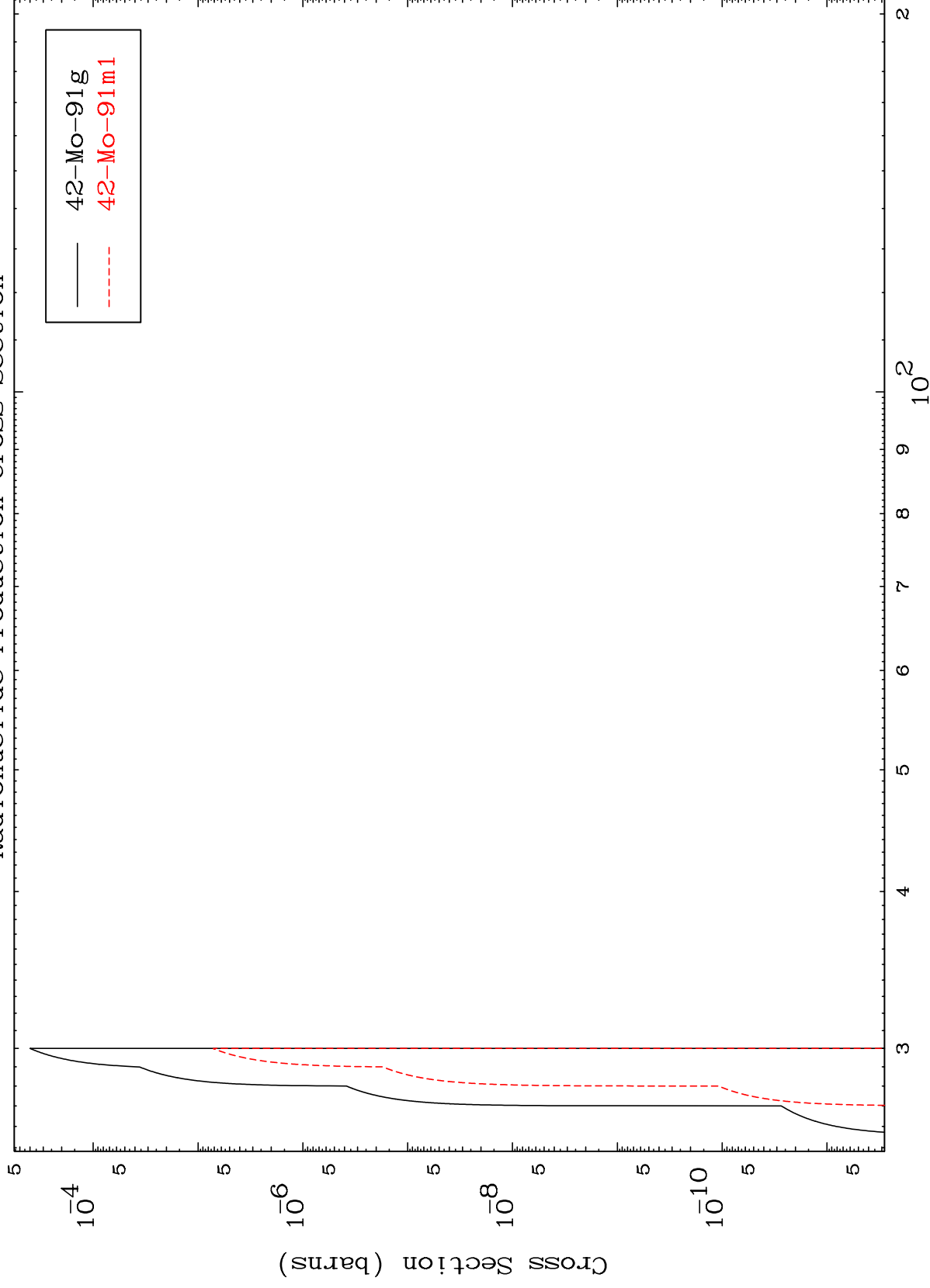
43-Tc-94m

MAT 4311

(n,3n) p

43-Tc-94m

Radionuclide Production Cross Section



28

Incident Energy (MeV)

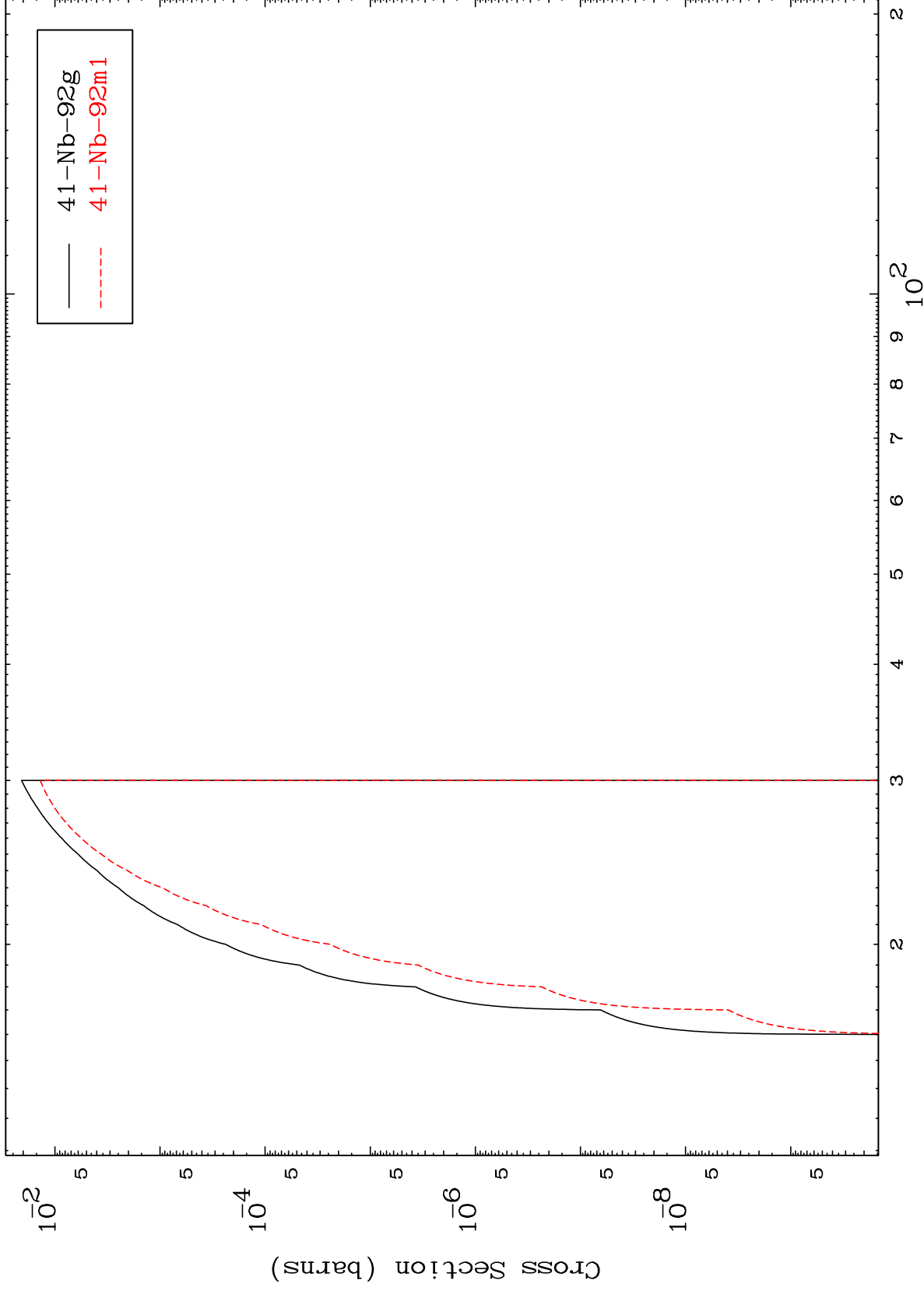
43-Tc-94m

MAT 4311

(n,2n) p

43-Tc-94m

Radionuclide Production Cross Section



29

Incident Energy (MeV)

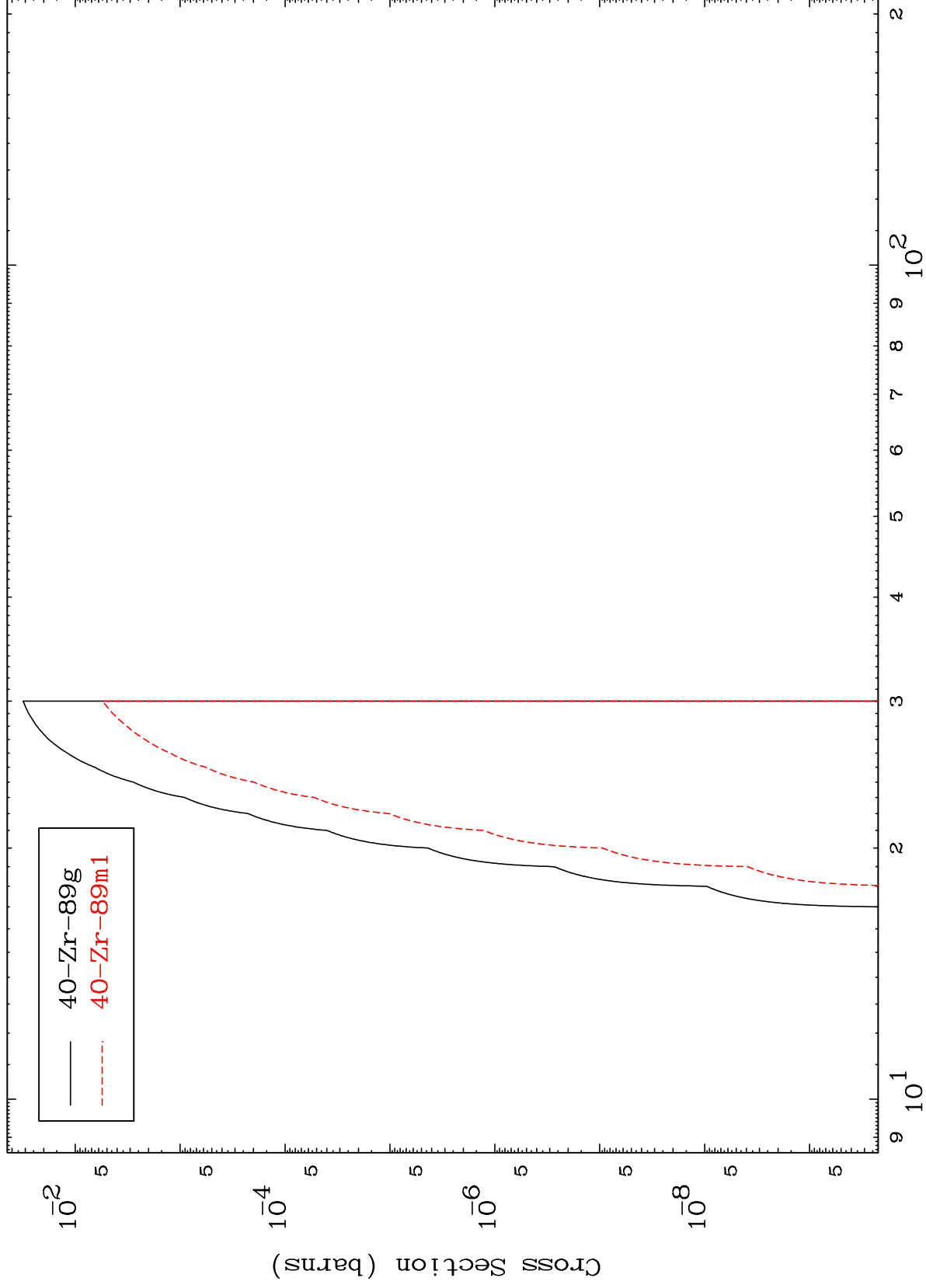
43-Tc-94m

MAT 4311

(n,n') p α

43-Tc-94m

Radionuclide Production Cross Section



Incident Energy (MeV)

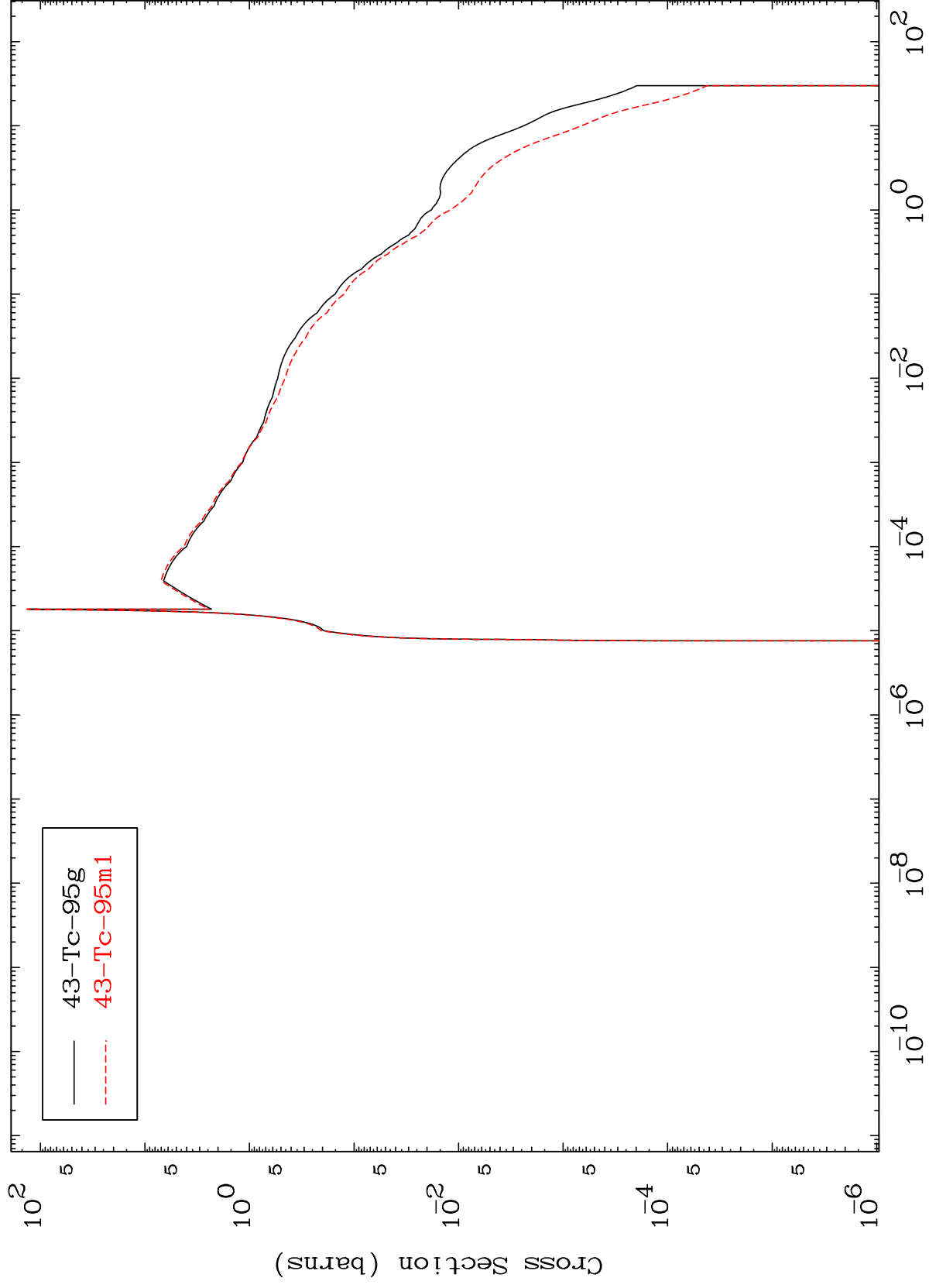
43-Tc-94m

30

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43-Tc-94m

(n, γ)
Radionuclide Production Cross Section

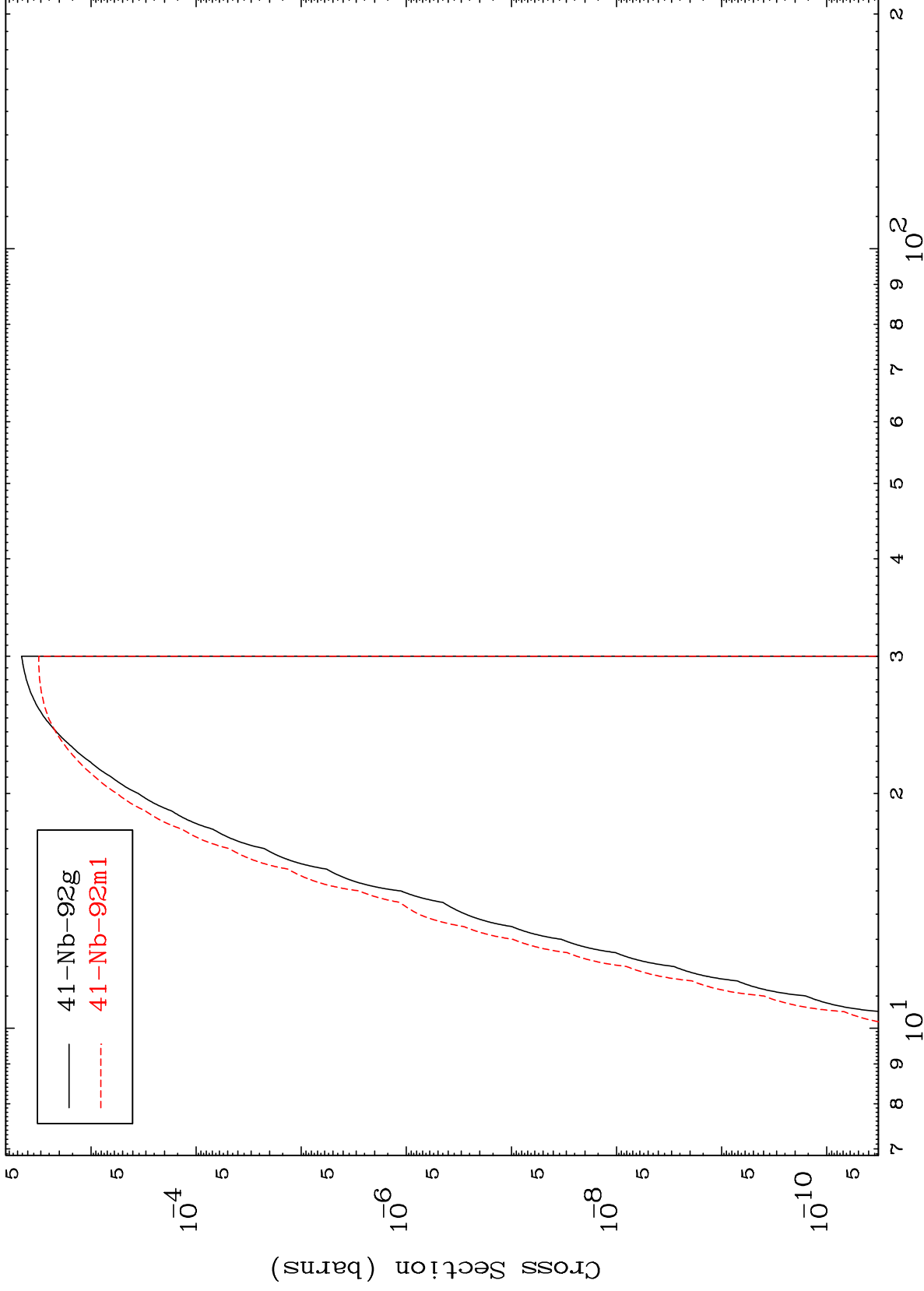


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(n,He-3)

43-Tc-94m

Radionuclide Production Cross Section



32

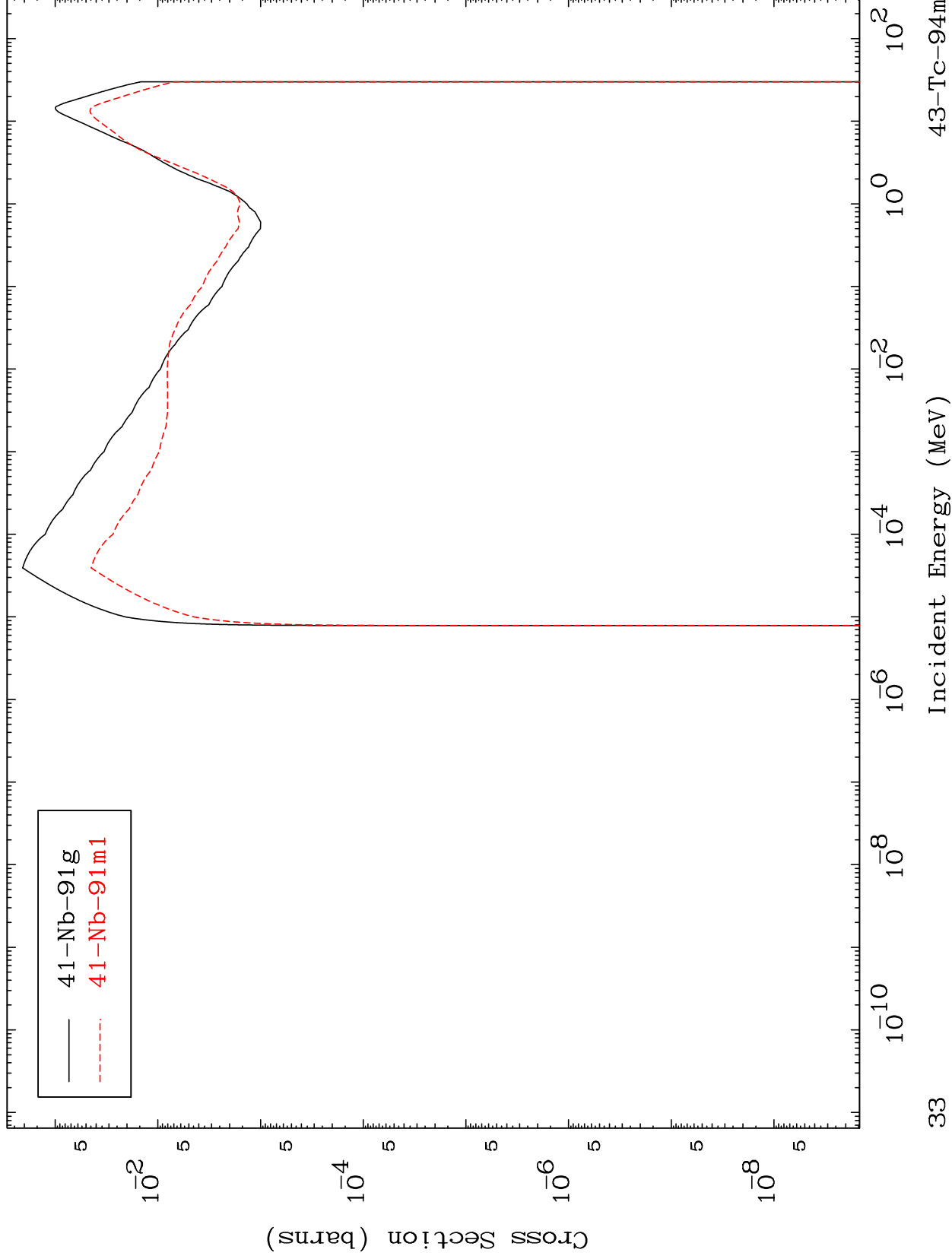
Incident Energy (MeV)

43-Tc-94m

MAT 4311

43-Tc-94m

Radionuclide Production Cross Section

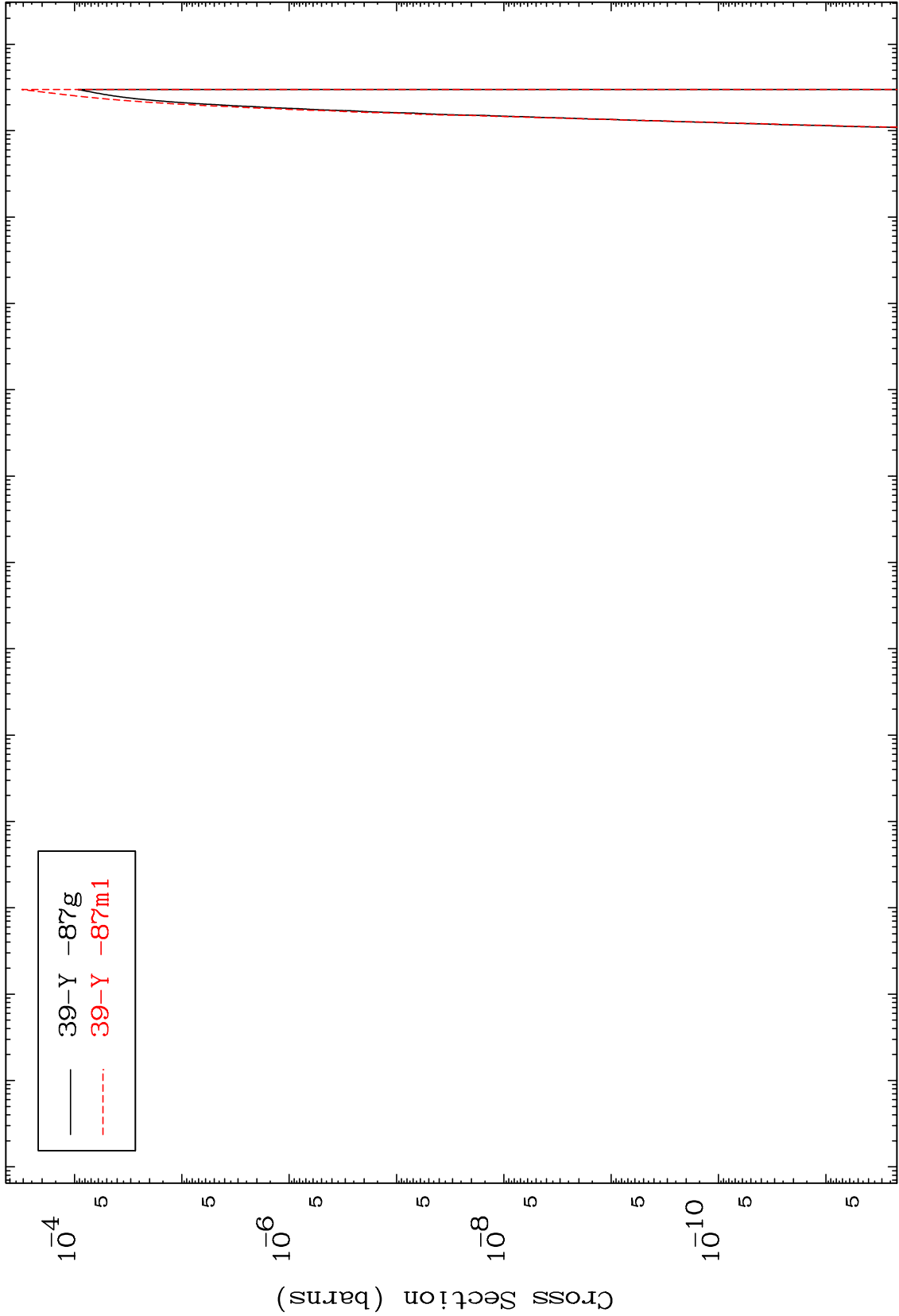
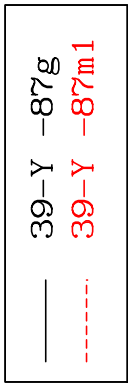


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(n,2α)

43-Tc-94m

Radionuclide Production Cross Section



Cross Section (barns)

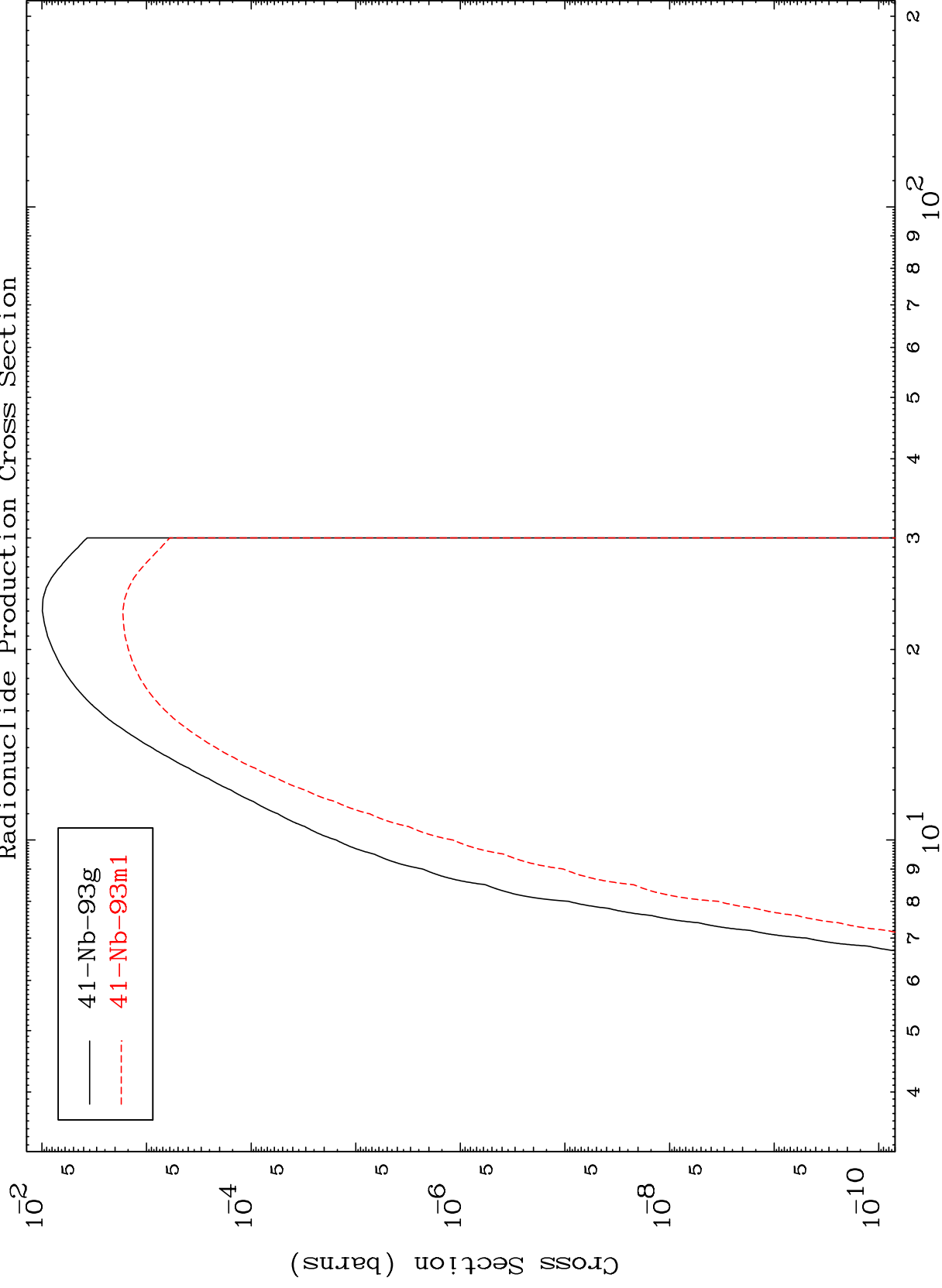
Incident Energy (MeV)

43-Tc-94m

MAT 4311

43-Tc-94m

(n,2p)
Radionuclide Production Cross Section



35

Incident Energy (MeV)

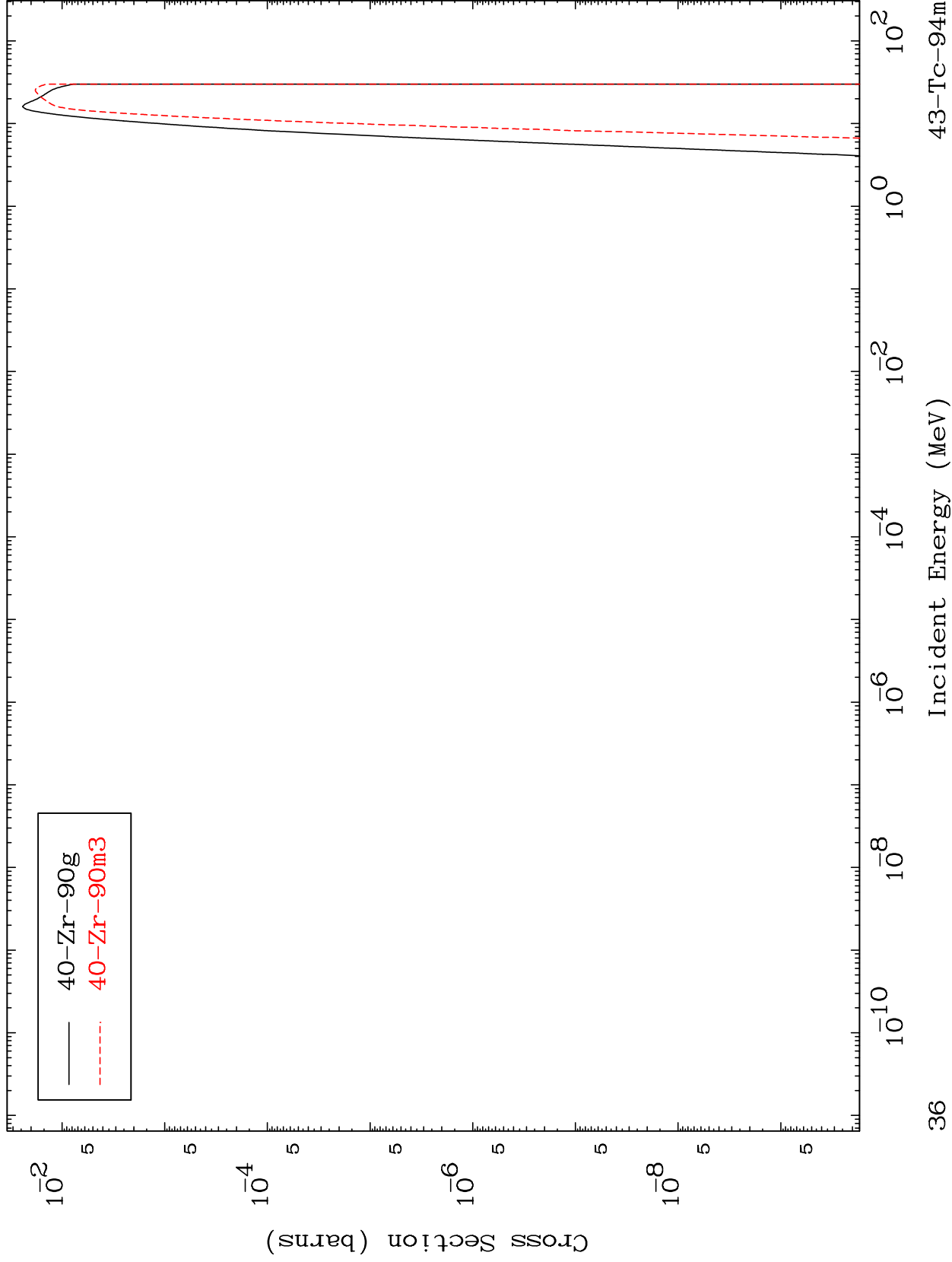
43-Tc-94m

MAT 4311

(n,p) α

43-Tc-94m

Radionuclide Production Cross Section

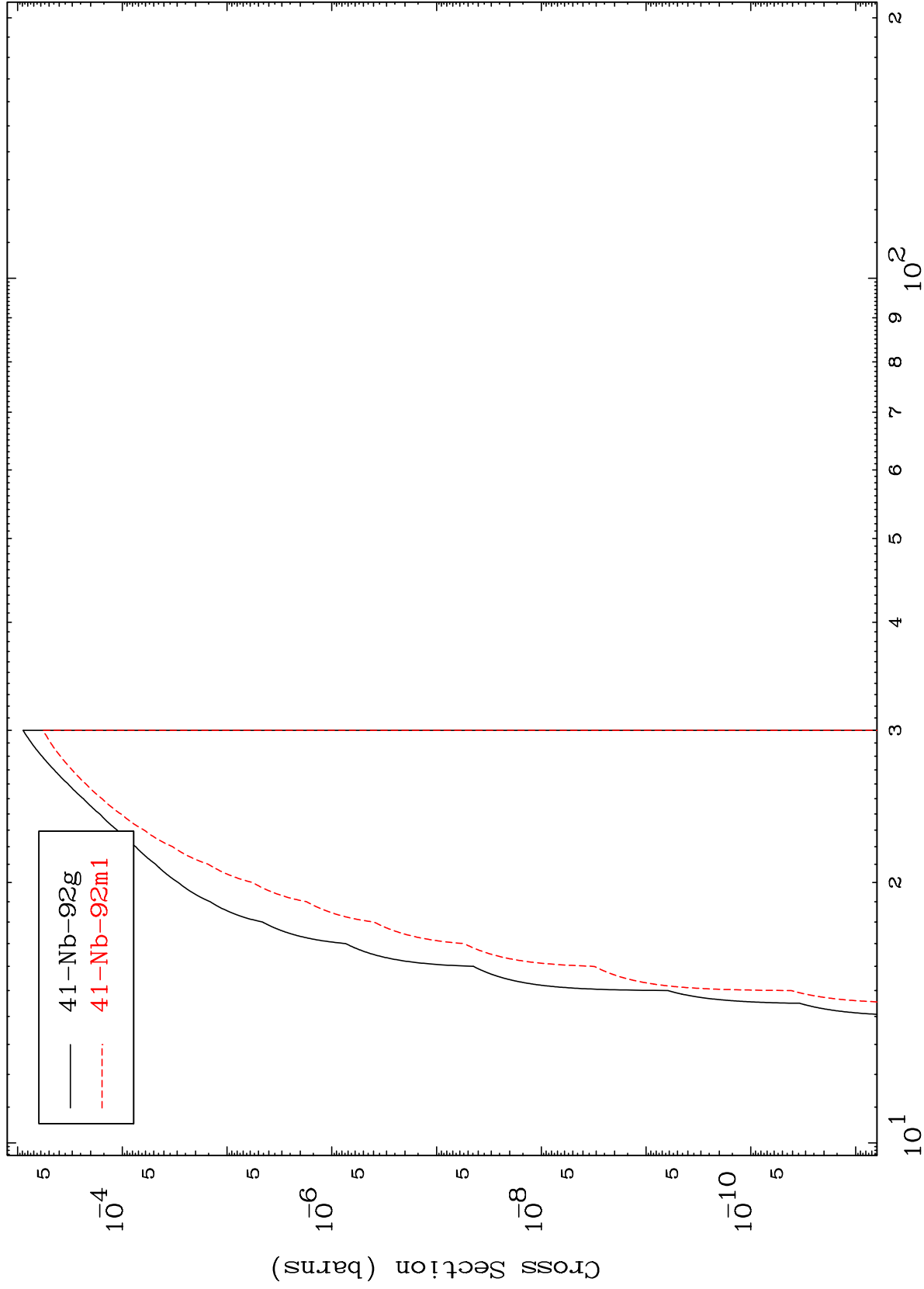


MAT 4311

(n,p) d

43-Tc-94m

Radionuclide Production Cross Section



Incident Energy (MeV)

43-Tc-94m

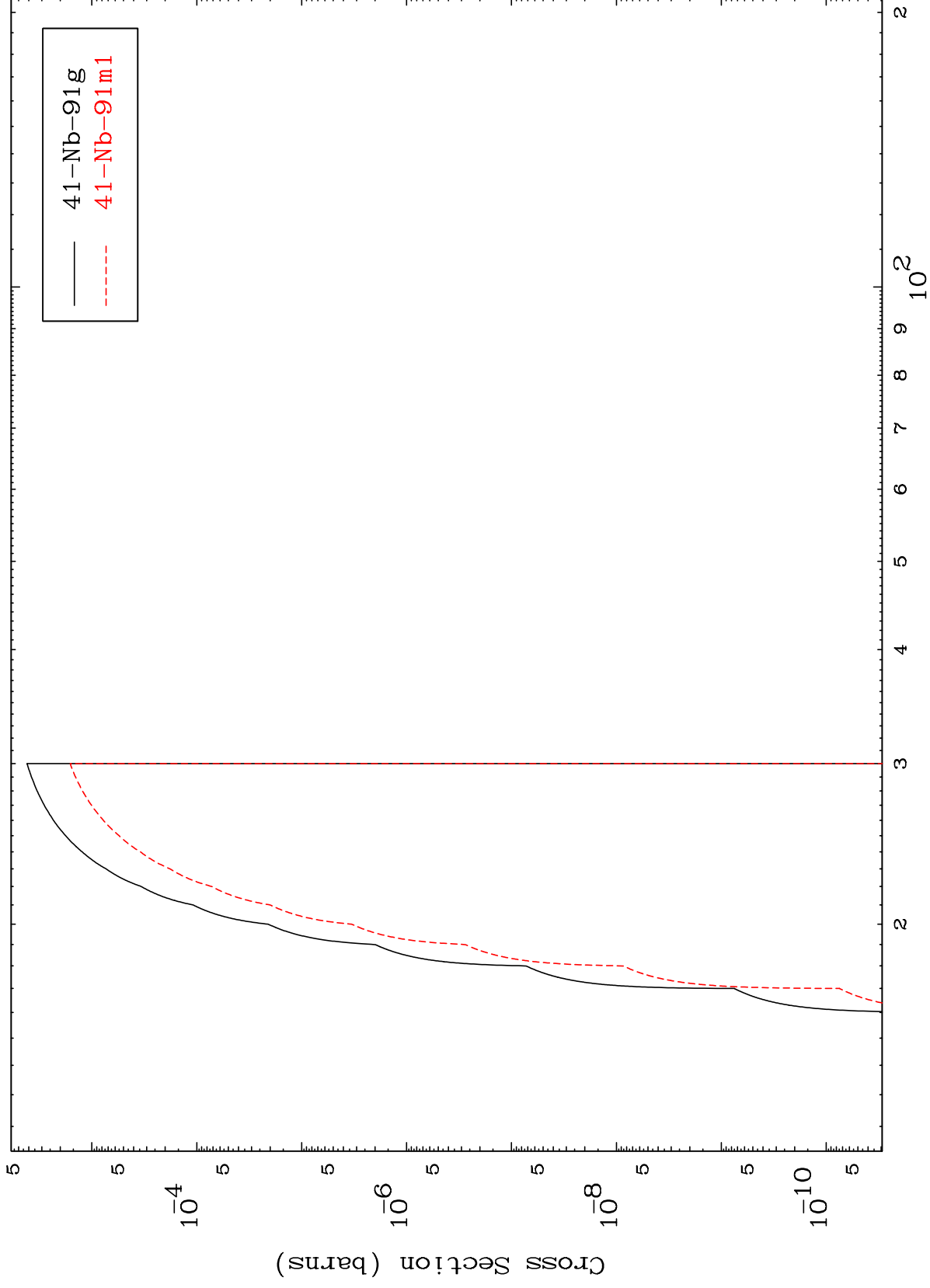
37

MAT 4311

(n,p) t

43-Tc-94m

Radionuclide Production Cross Section



38

Incident Energy (MeV)

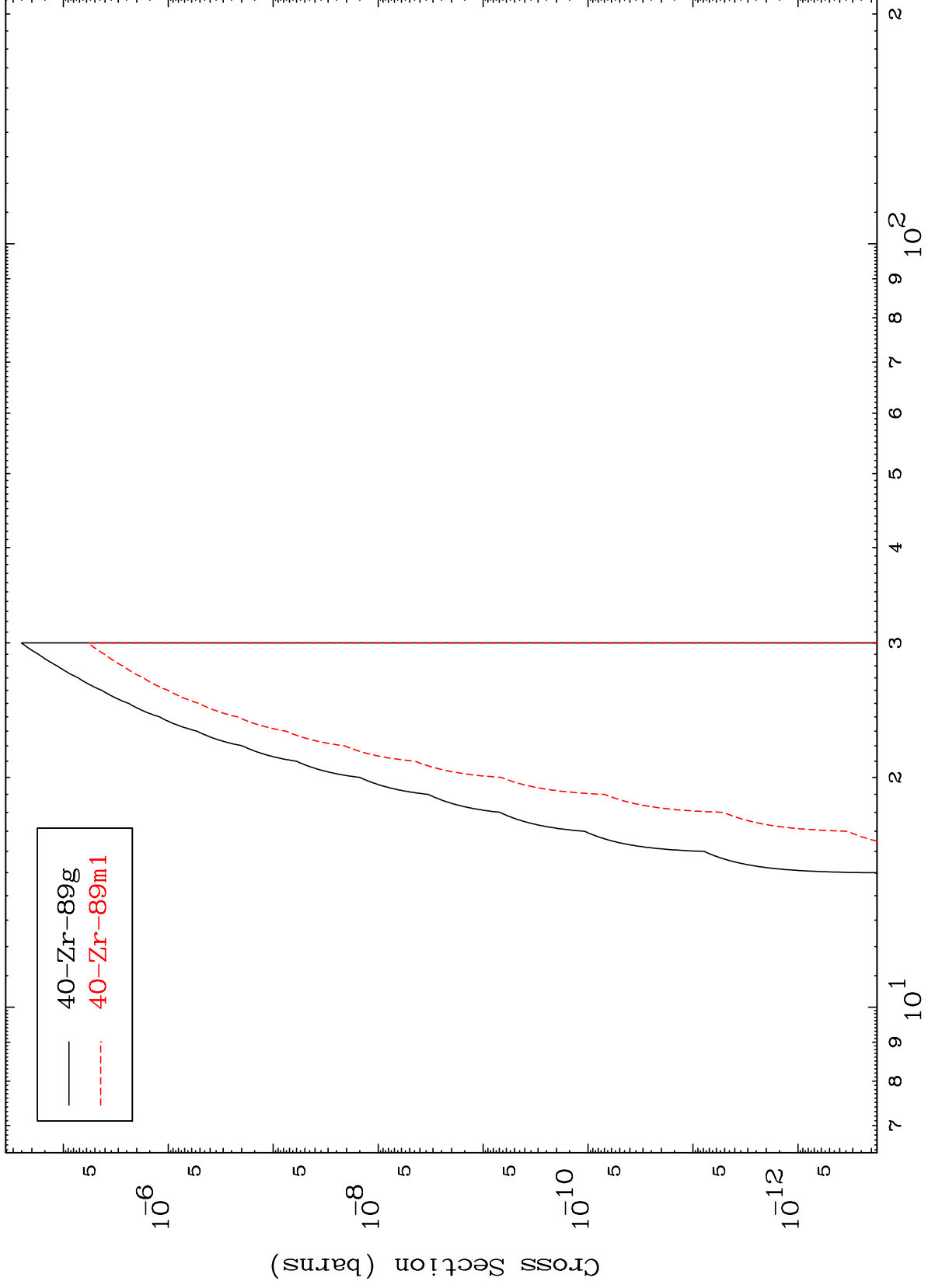
43-Tc-94m

MAT 4311

(n,d) α

$^{43}\text{Tc-94m}$

Radionuclide Production Cross Section



39

Incident Energy (MeV)

$^{43}\text{Tc-94m}$