

Program EVALPLOT
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

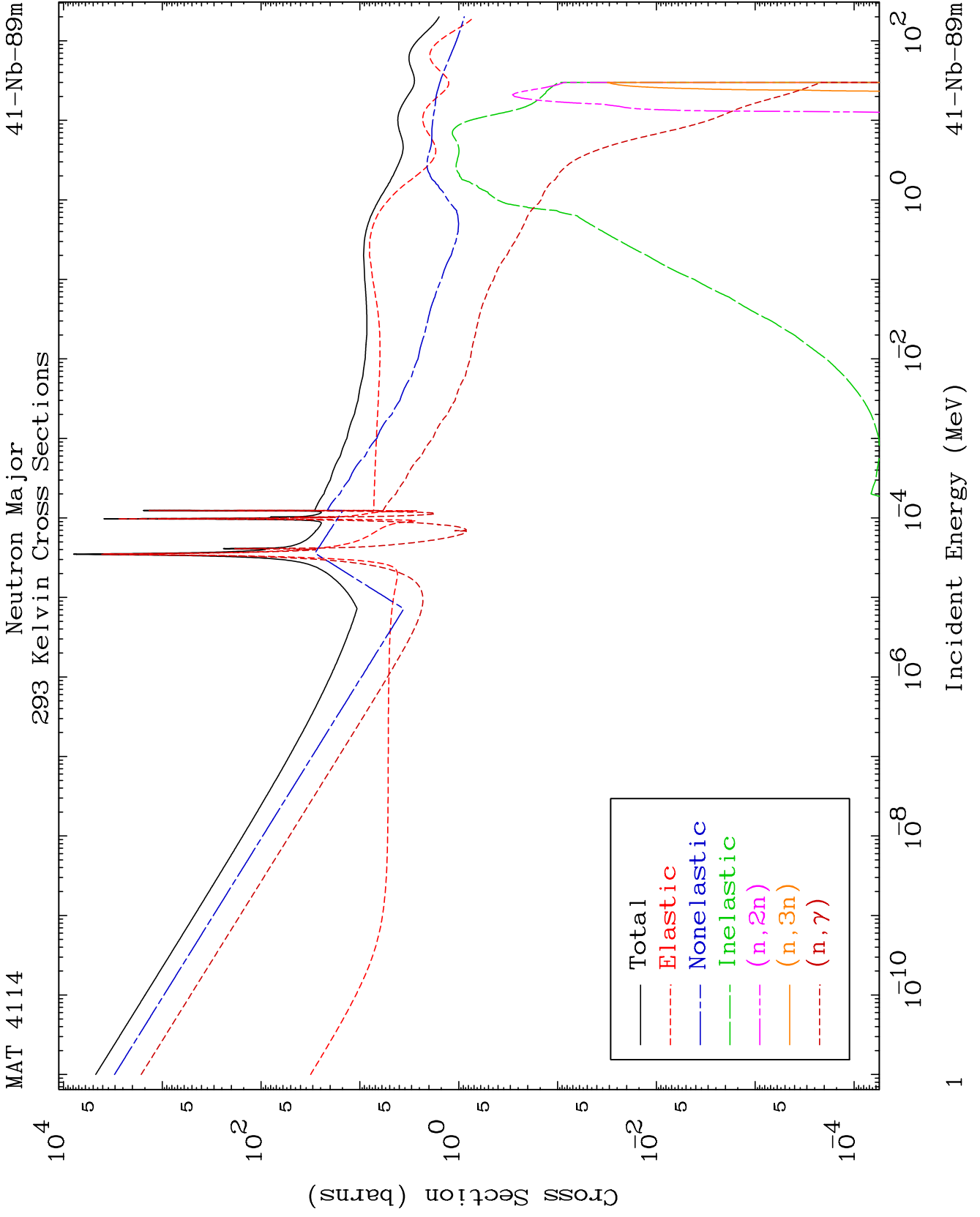
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Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start



MAT 4114

Neutron Major

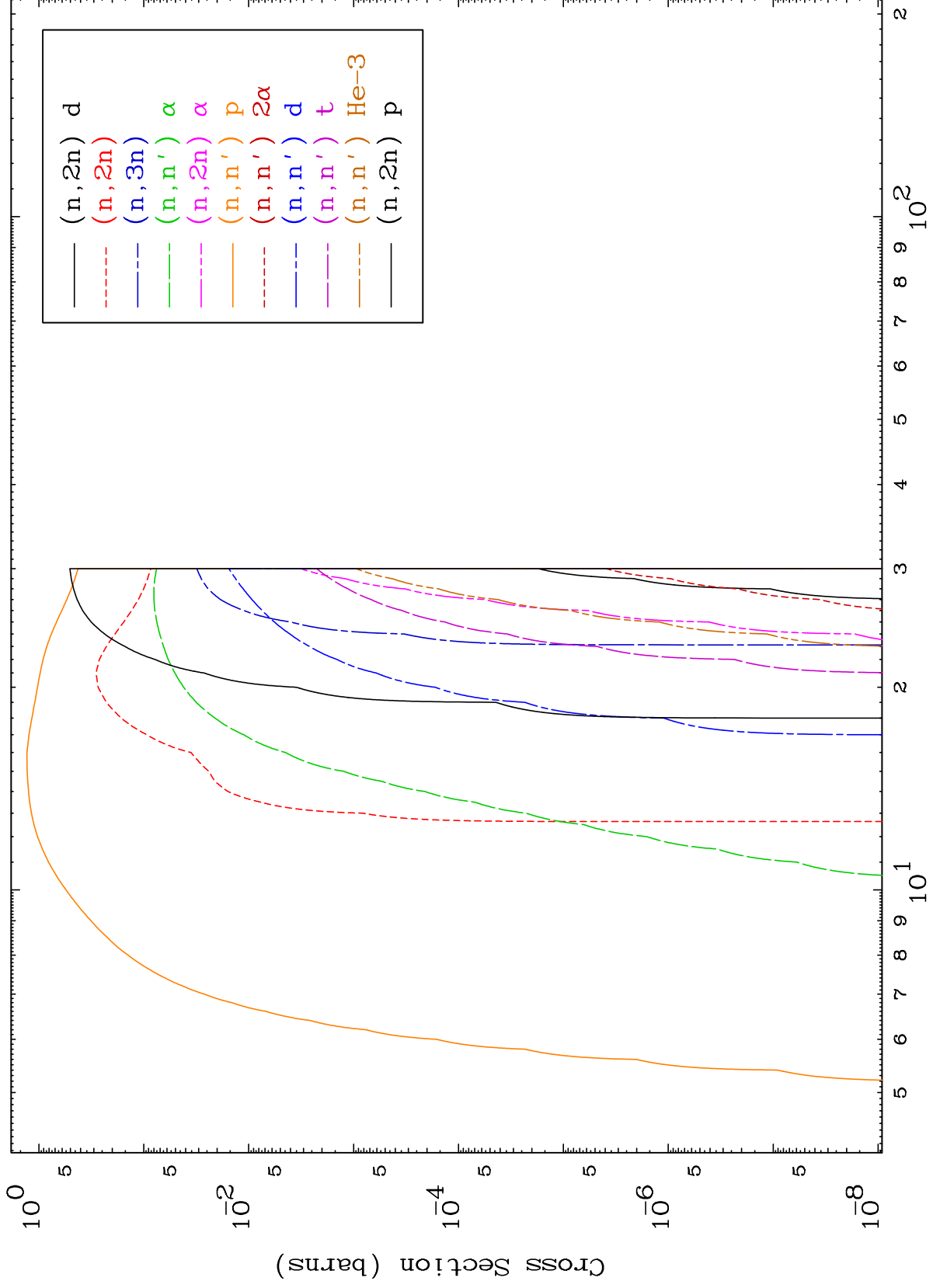
41-Nb-89m

293 Kelvin Cross Sections

MAT 4114

Neutron Absorption
293 Kelvin Cross Sections

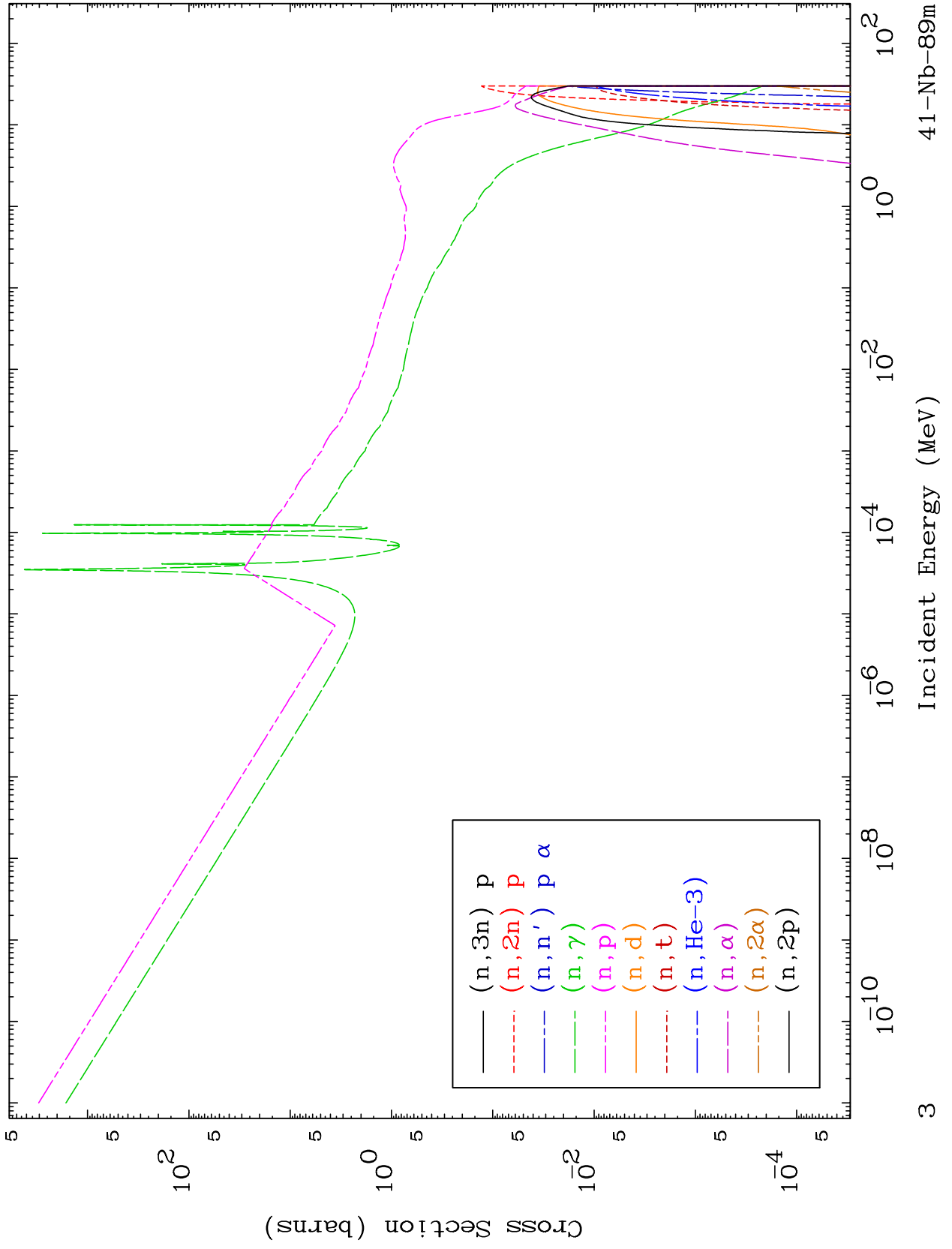
41-Nb-89m



MAT 4114

Neutron Absorption
293 Kelvin Cross Sections

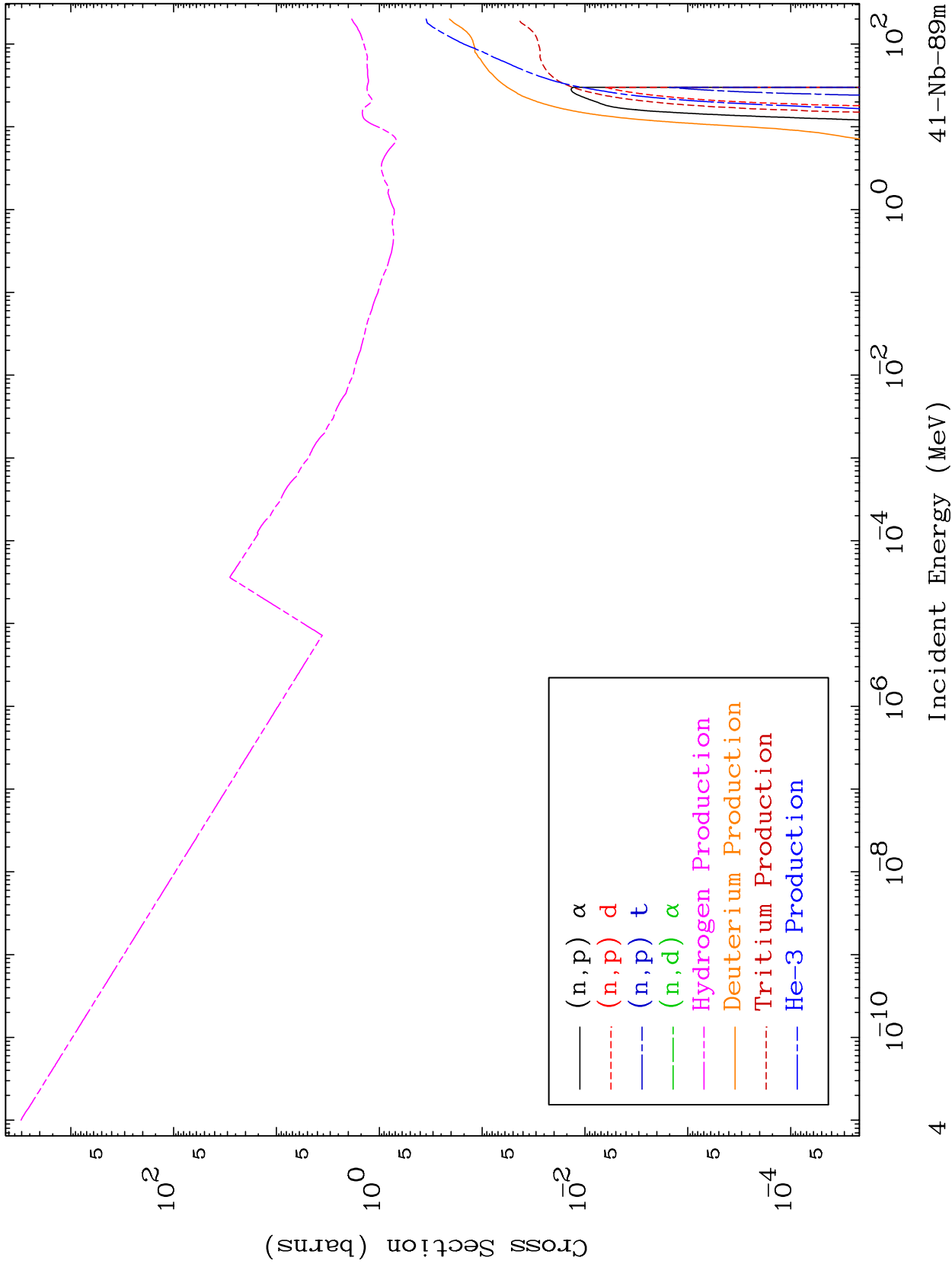
41-Nb-89m



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Neutron Absorption
293 Kelvin Cross Sections

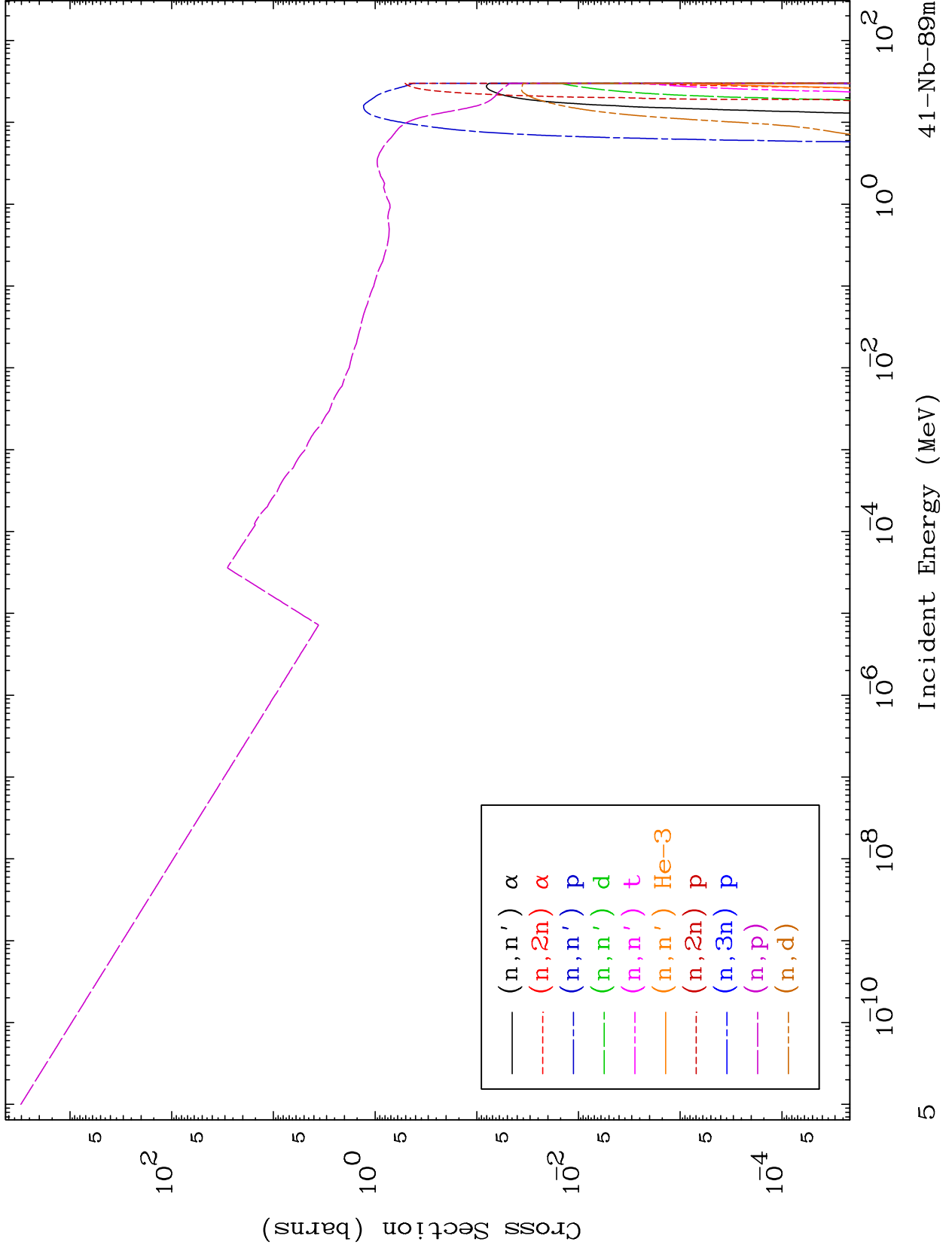
41-Nb-89m



MAT 4114

Charged Particle
293 Kelvin Cross Sections

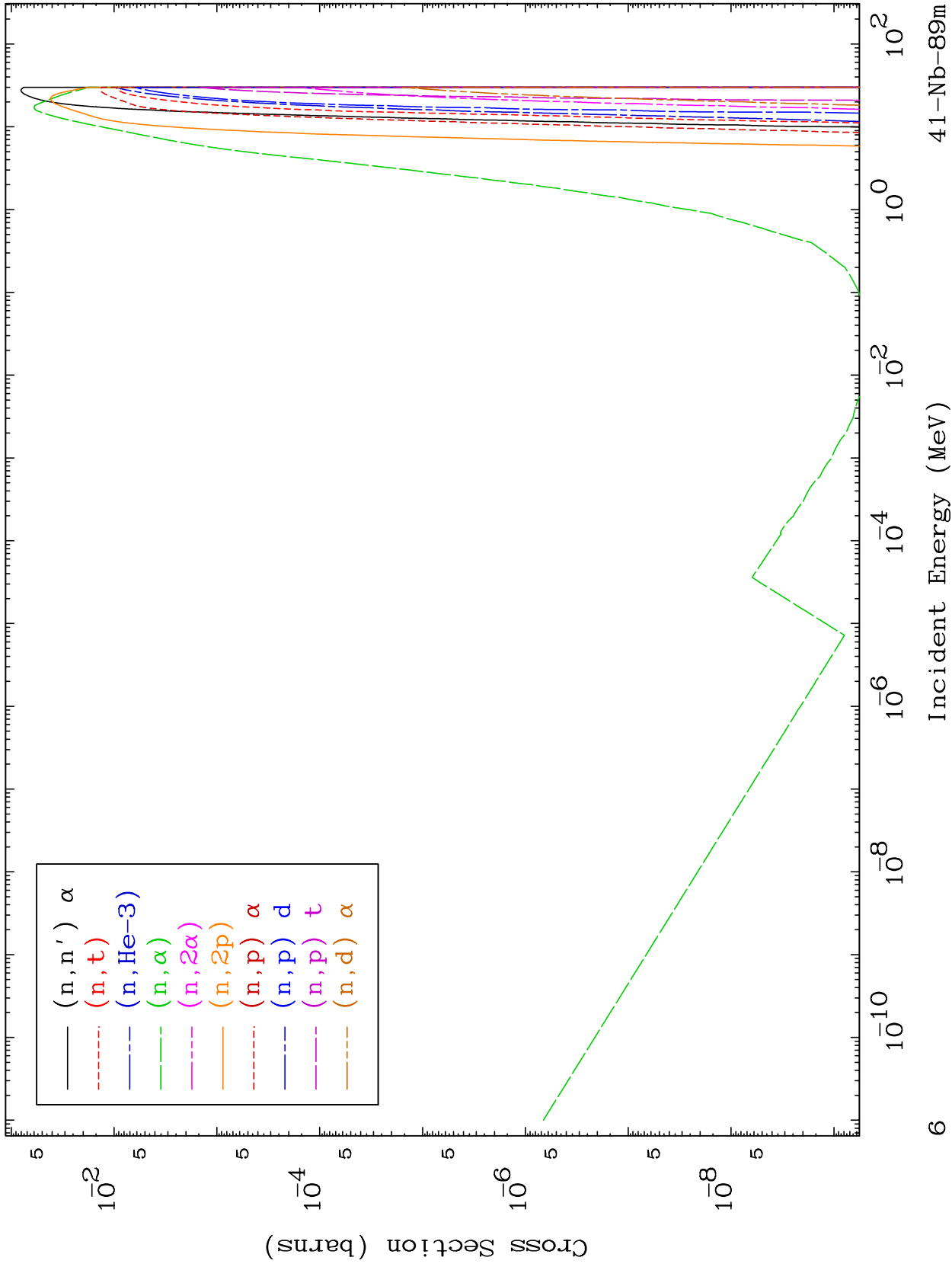
41-Nb-89m



MAT 4114

Charged Particle
293 Kelvin Cross Sections

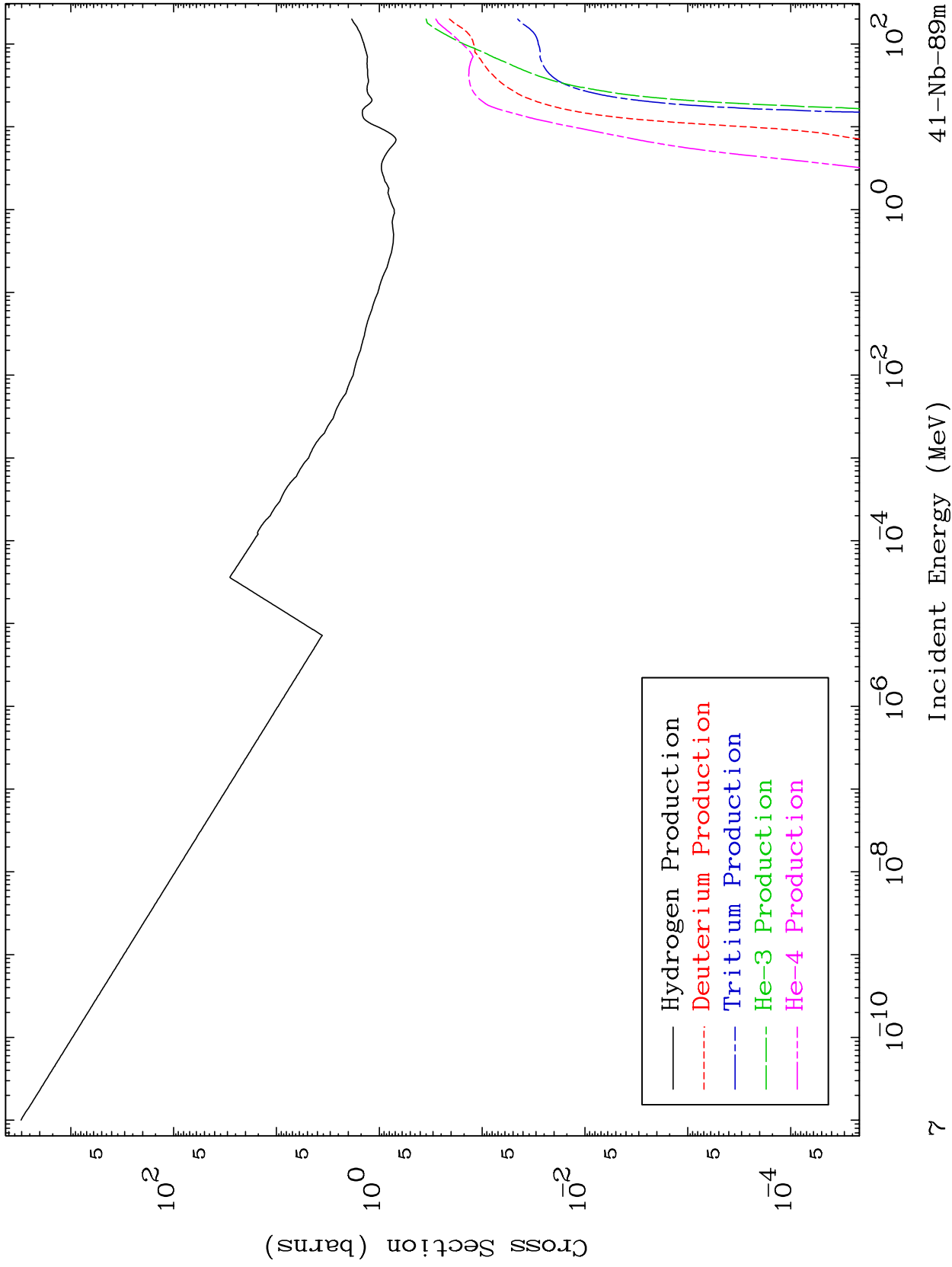
41-Nb-89m



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Particle Production
293 Kelvin Cross Sections

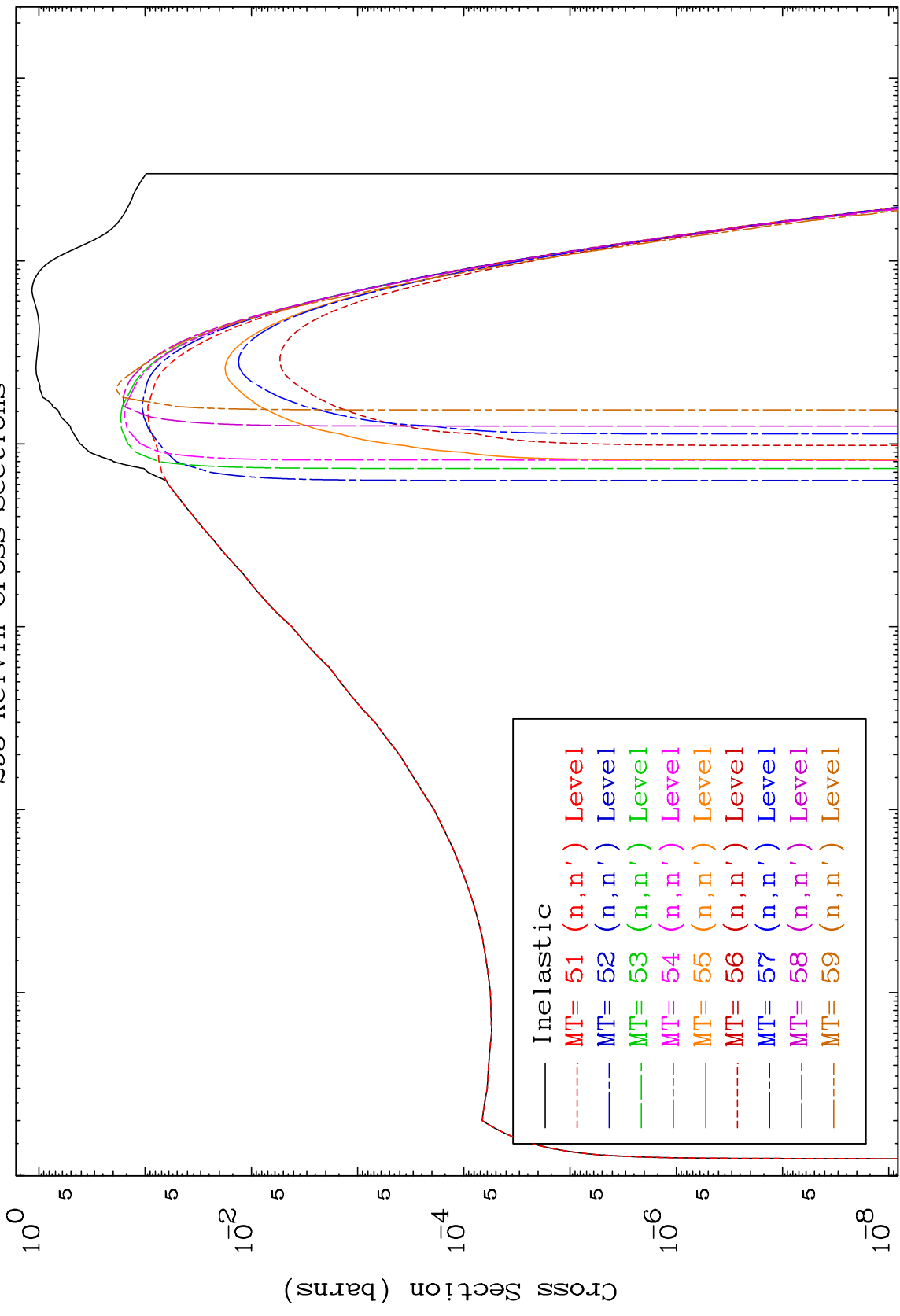
41-Nb-89m



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(n,n') Levels
293 Kelvin Cross Sections

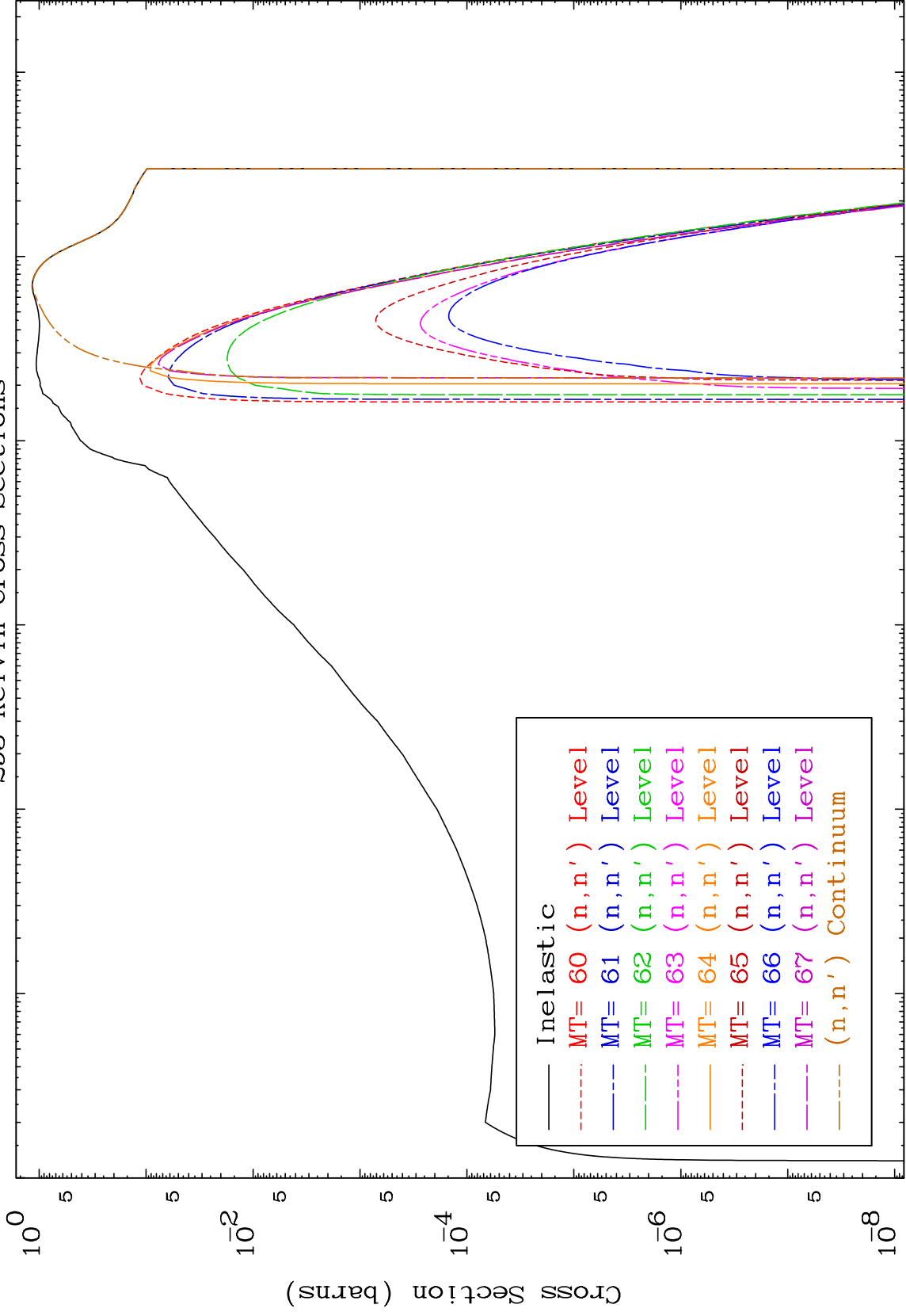
41-Nb-89m



MAT 4114

(n,n') Levels
293 Kelvin Cross Sections

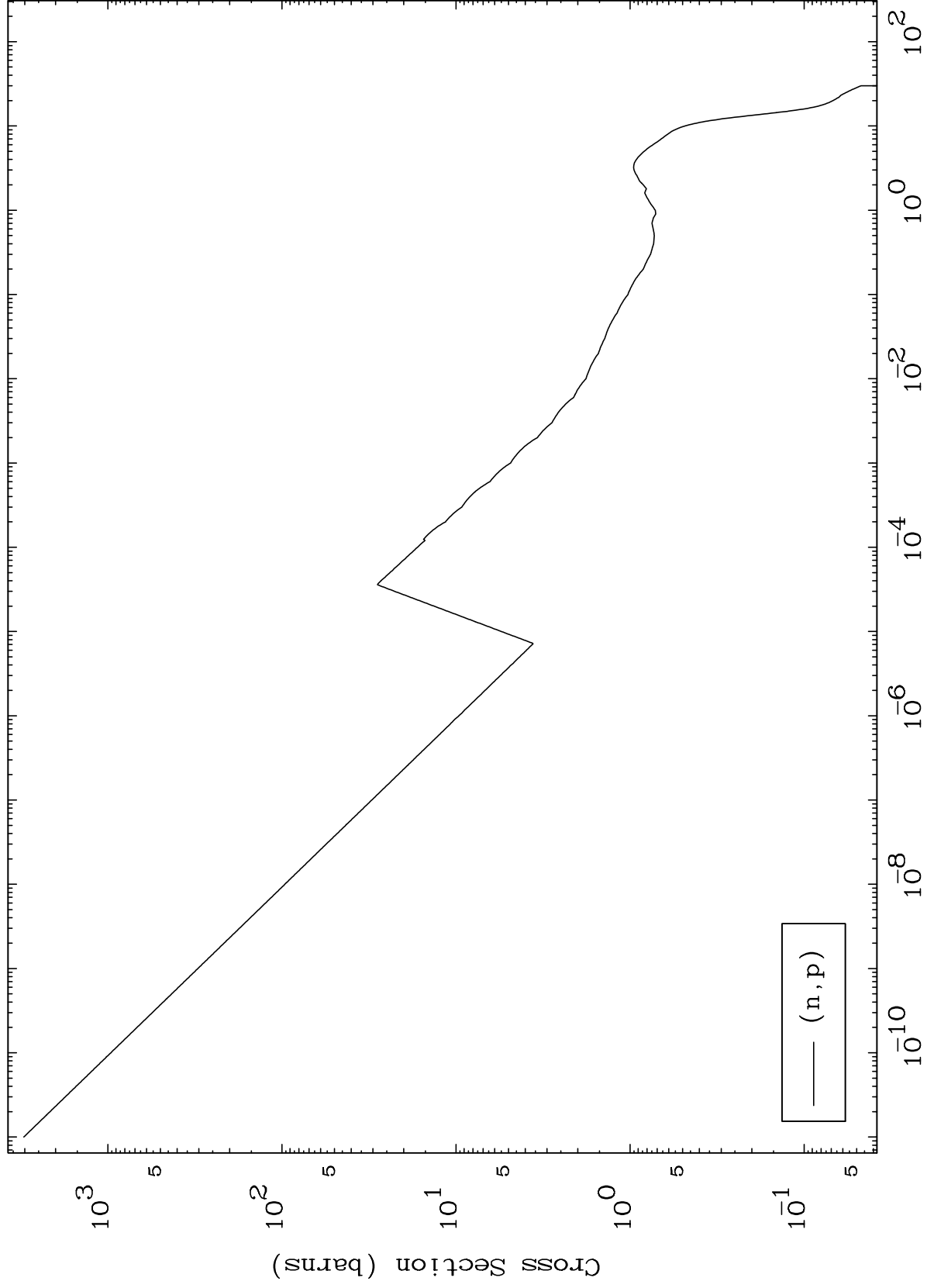
41-Nb-89m



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(n,p) Levels
293 Kelvin Cross Sections

41-Nb-89m



10

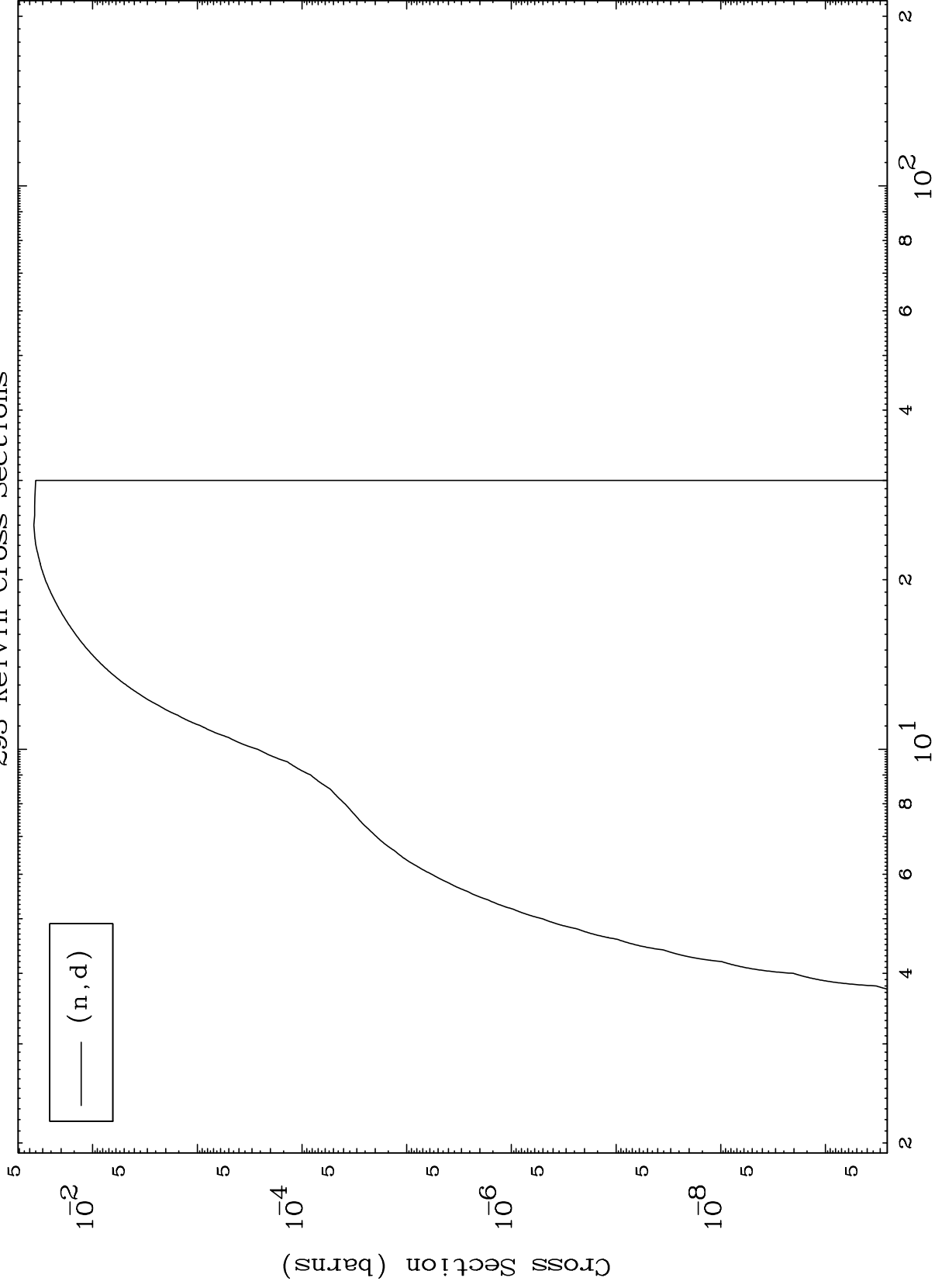
Incident Energy (MeV)

41-Nb-89m

MAT 4114

(n,d) Levels
293 Kelvin Cross Sections

41-Nb-89m



11

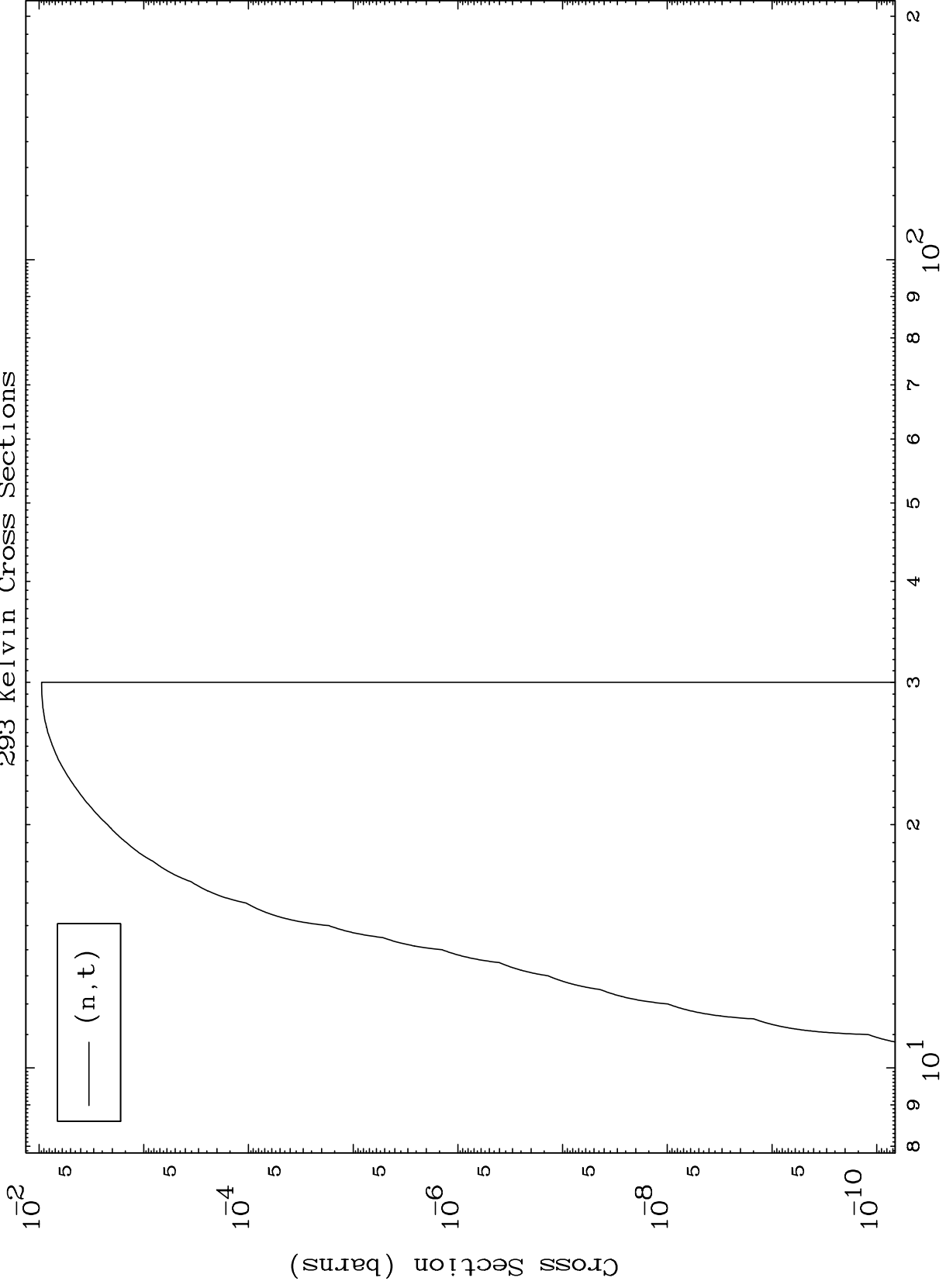
Incident Energy (MeV)

41-Nb-89m

MAT 4114

(n,t) Levels
293 Kelvin Cross Sections

41-Nb-89m



12

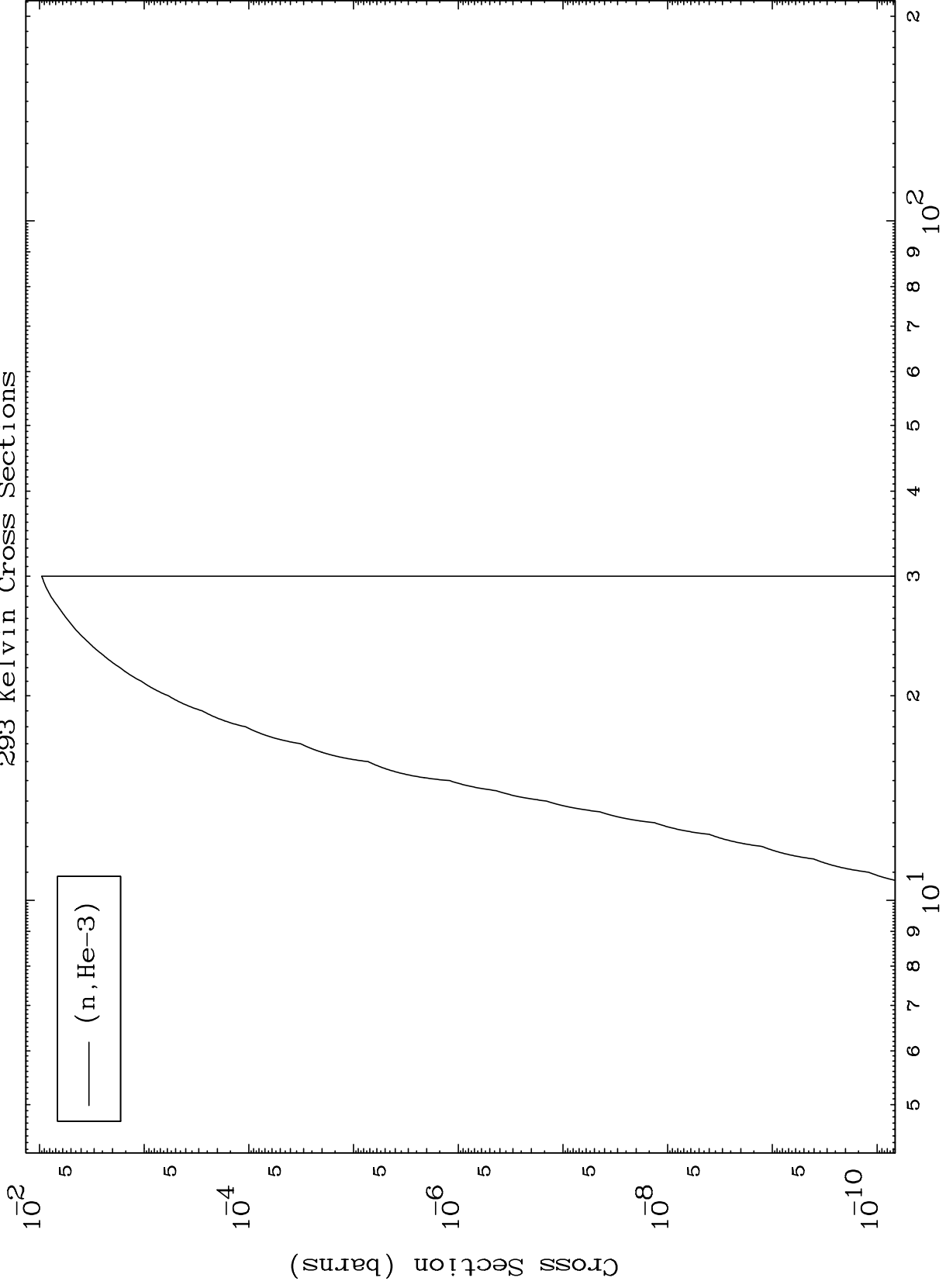
Incident Energy (MeV)

41-Nb-89m

MAT 4114

(n,He3) Levels
293 Kelvin Cross Sections

41-Nb-89m



13

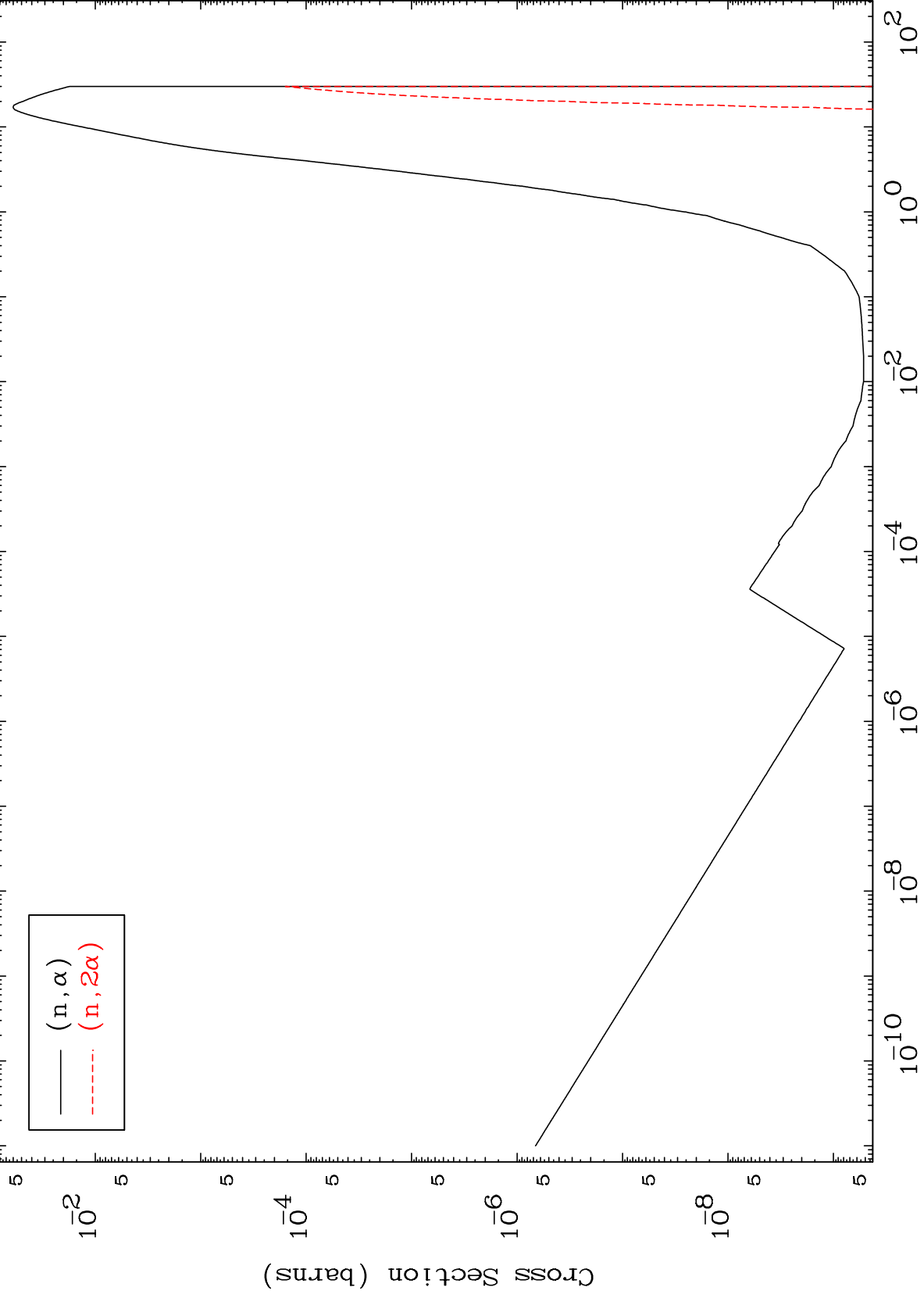
Incident Energy (MeV)

41-Nb-89m

MAT 4114

(n, α) Levels
293 Kelvin Cross Sections

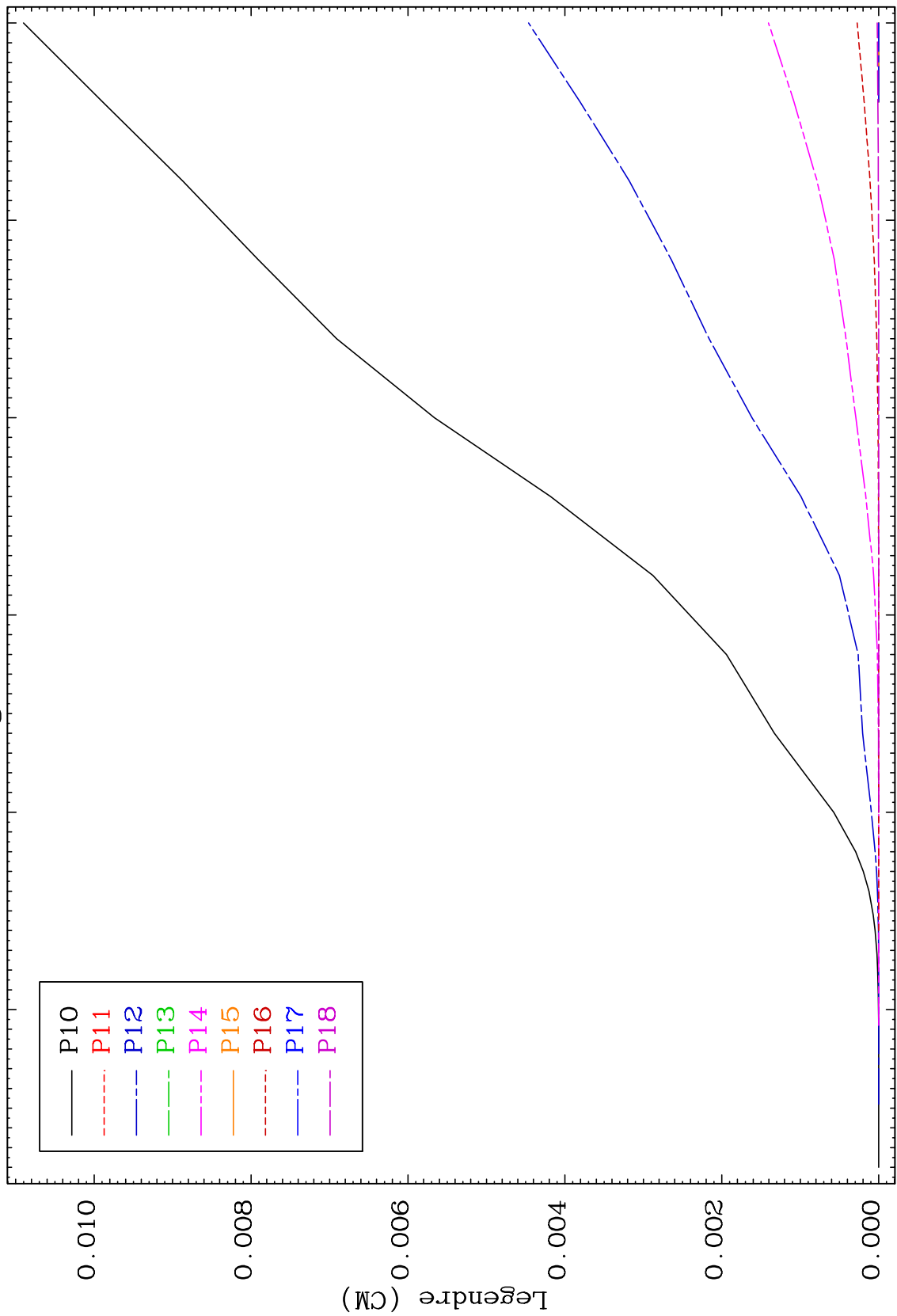
41-Nb-89m



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Elastic Legendre Coefficients

41-Nb-89m



16

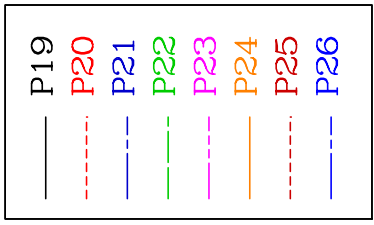
41-Nb-89m

Incident Energy (MeV)

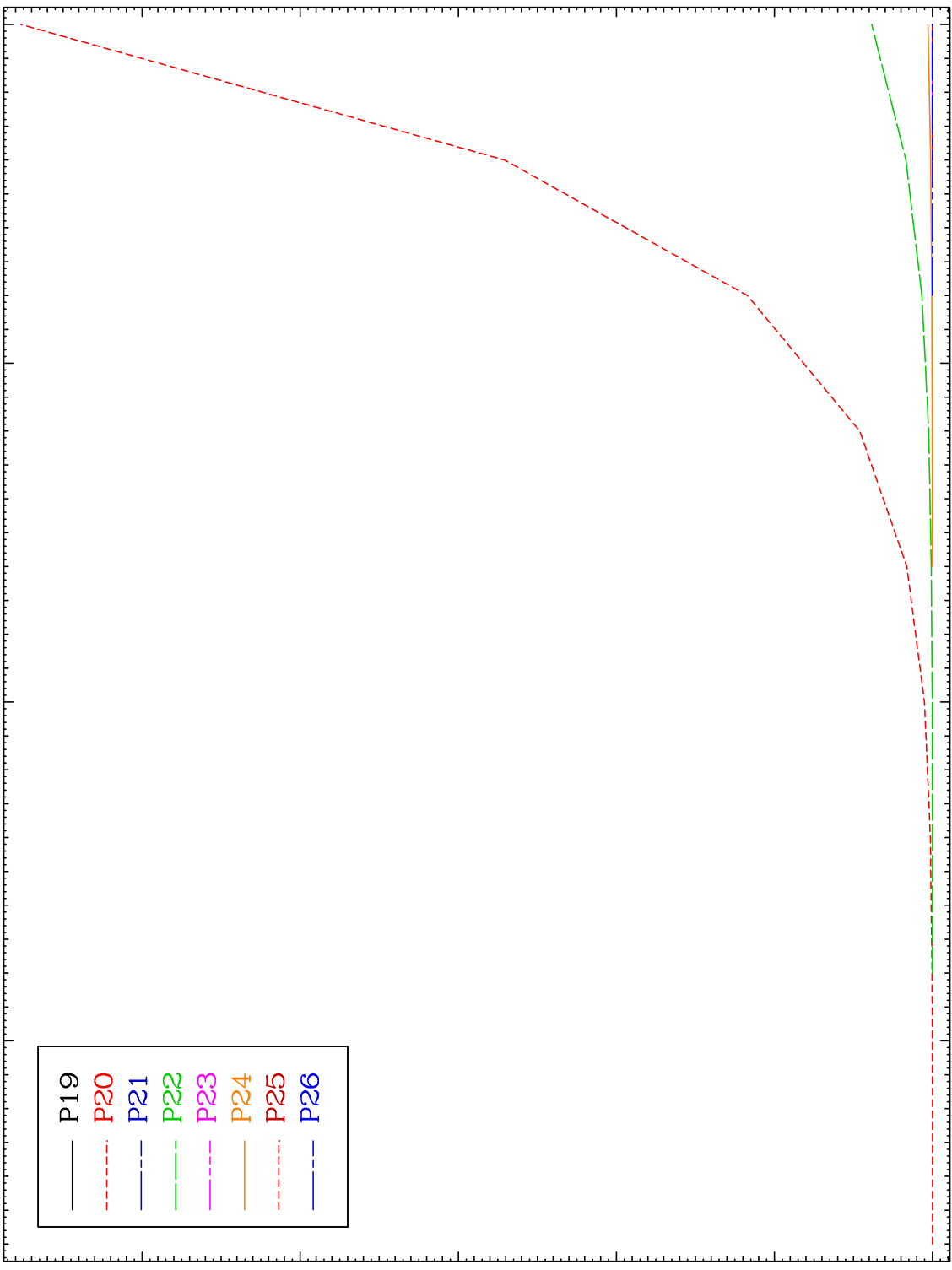
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Elastic Legendre Coefficients

41-Nb-89m



$\times 10^{-6}$
1.0
0.8
0.6
0.4
0.2
0.0



15 20 25 30

17

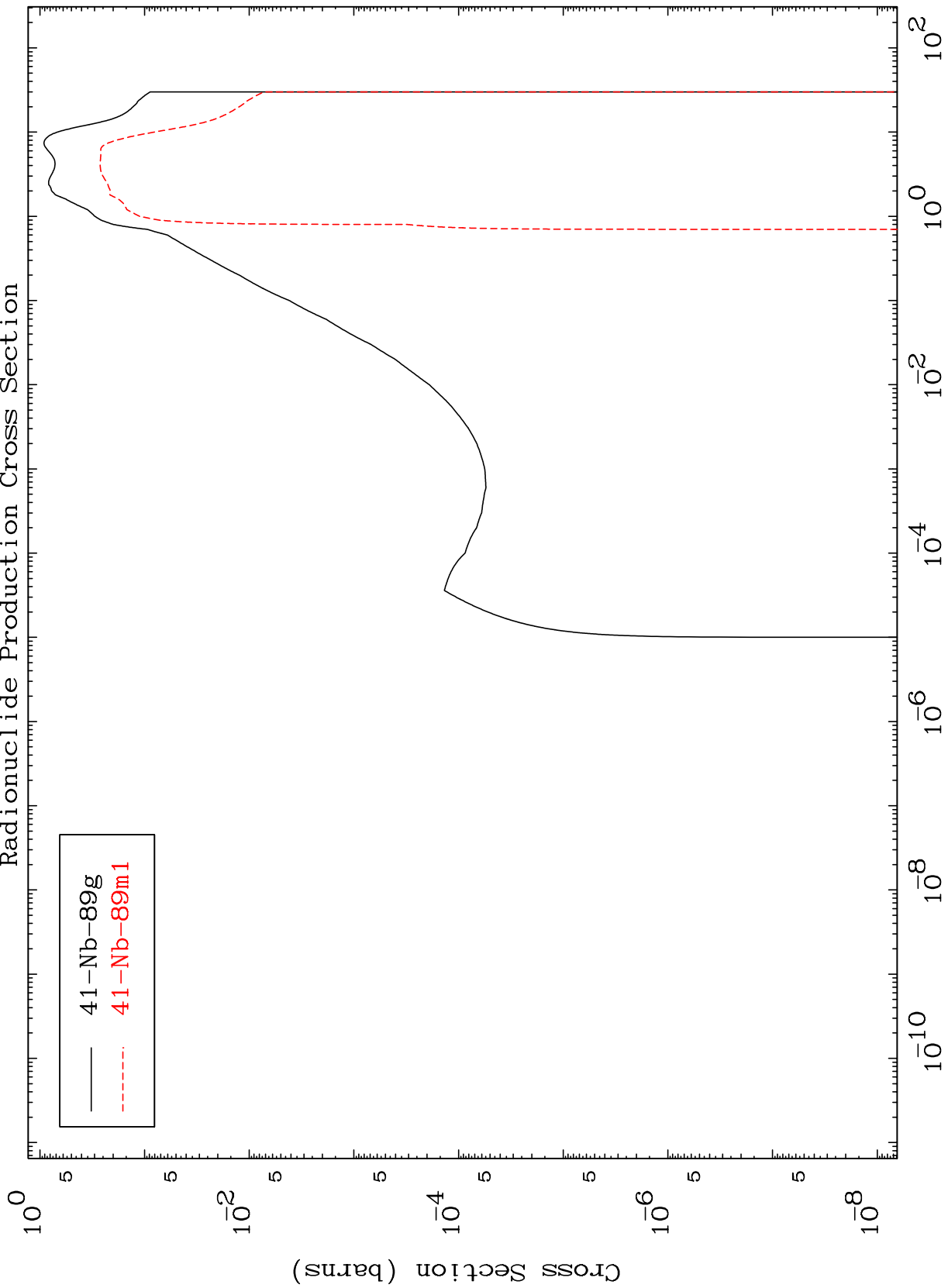
Incident Energy (MeV)

41-Nb-89m

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Inelastic
Radionuclide Production Cross Section

41-Nb-89m



— 41-Nb-89g
- - - 41-Nb-89m1

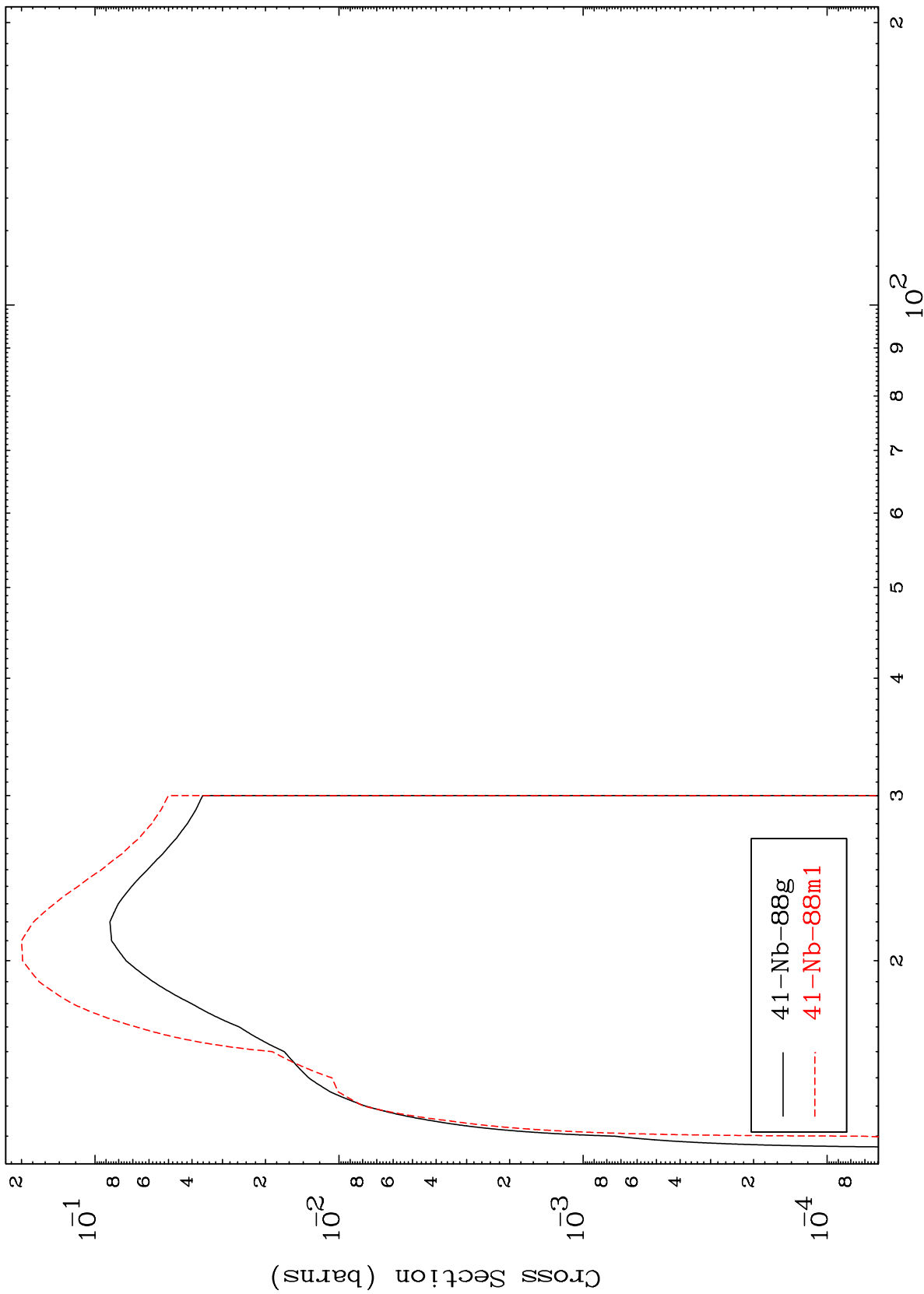
Incident Energy (MeV)

41-Nb-89m

MAT 4114

41-Nb-89m

Radionuclide Production Cross Section



19

41-Nb-89m

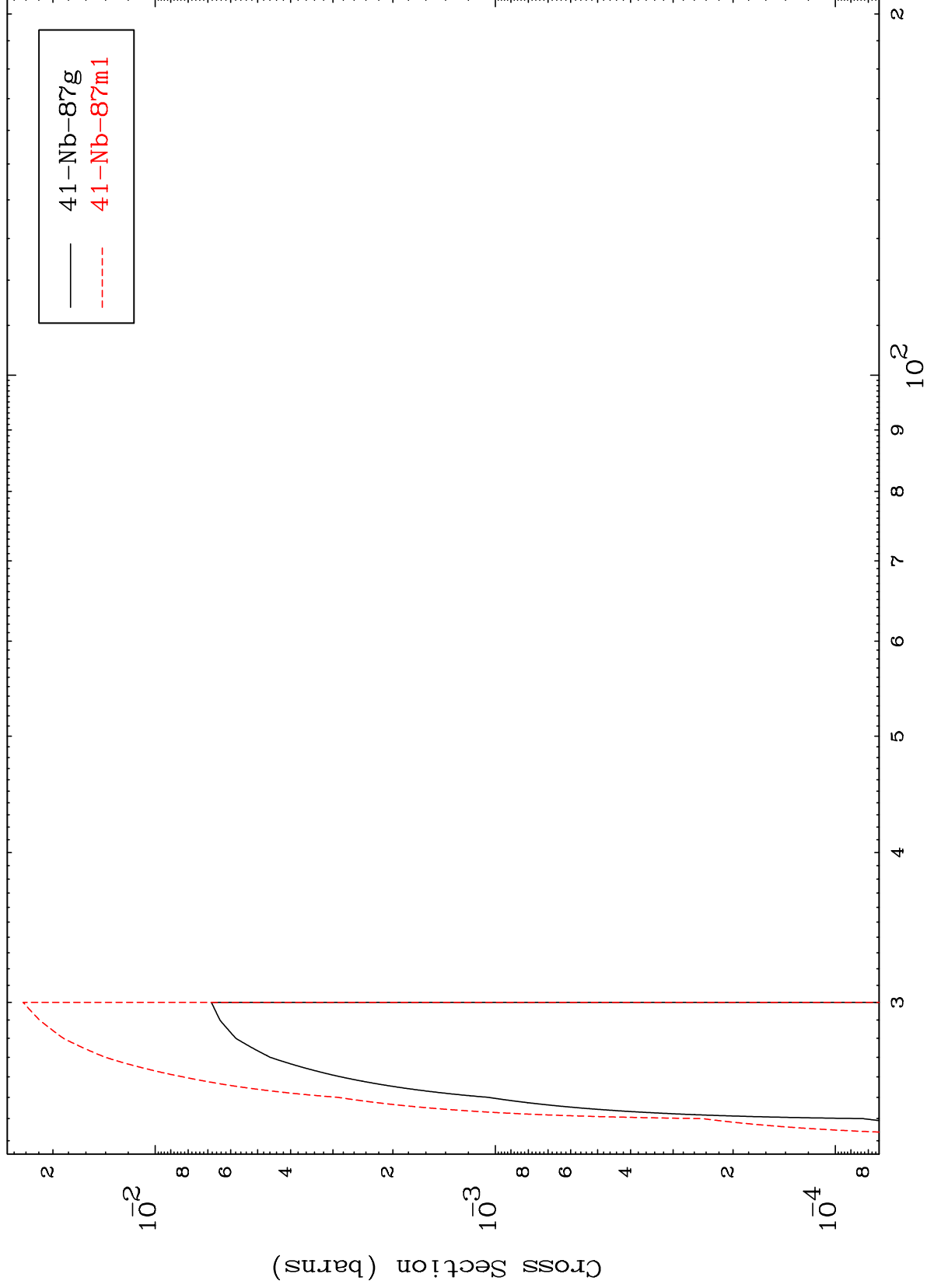
Incident Energy (MeV)

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(n,3n)

41-Nb-89m

Radionuclide Production Cross Section



20

Incident Energy (MeV)

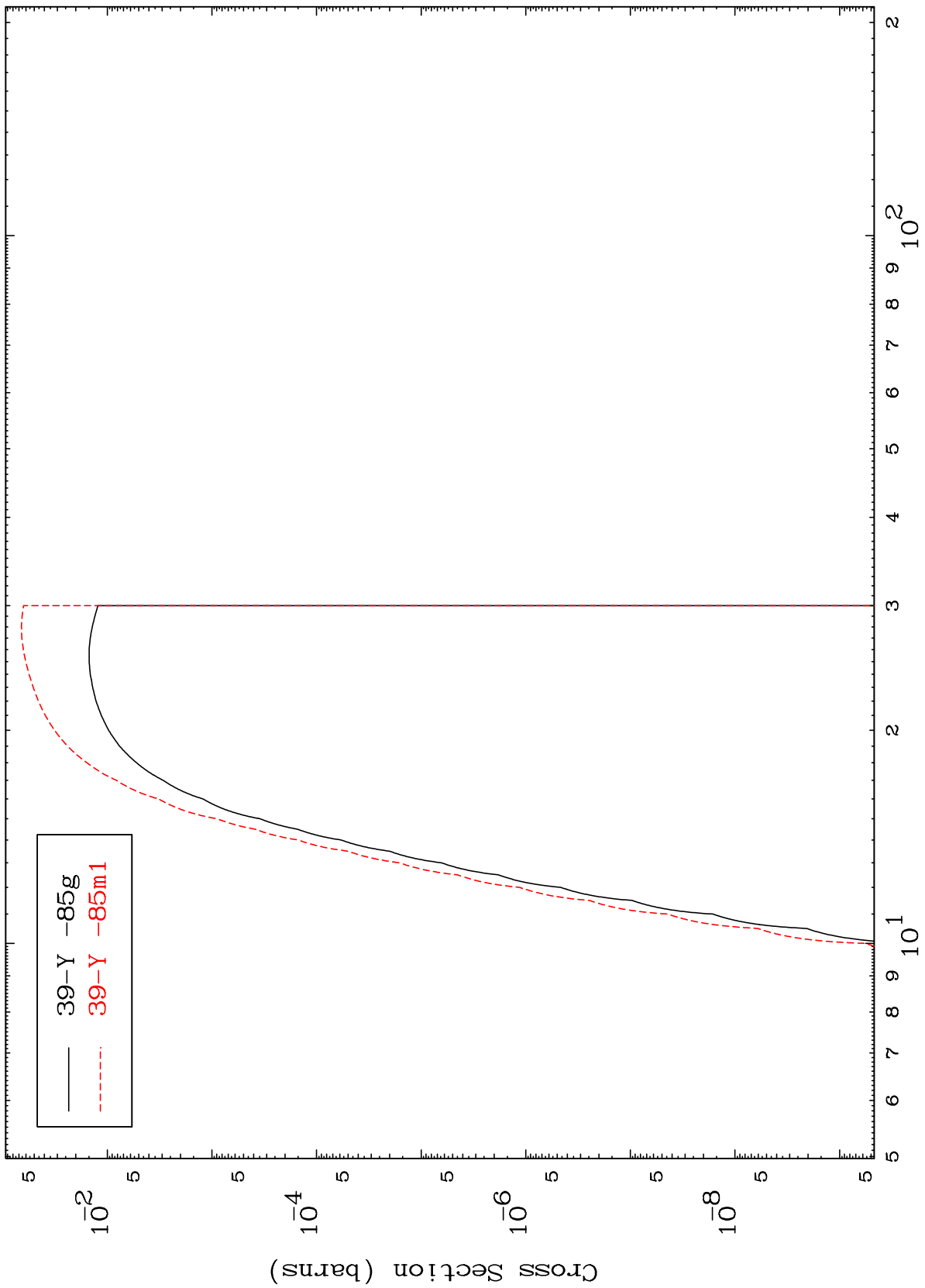
41-Nb-89m

MAT 4114

41-Nb-89m

(n,n') α

Radionuclide Production Cross Section



21

Incident Energy (MeV)

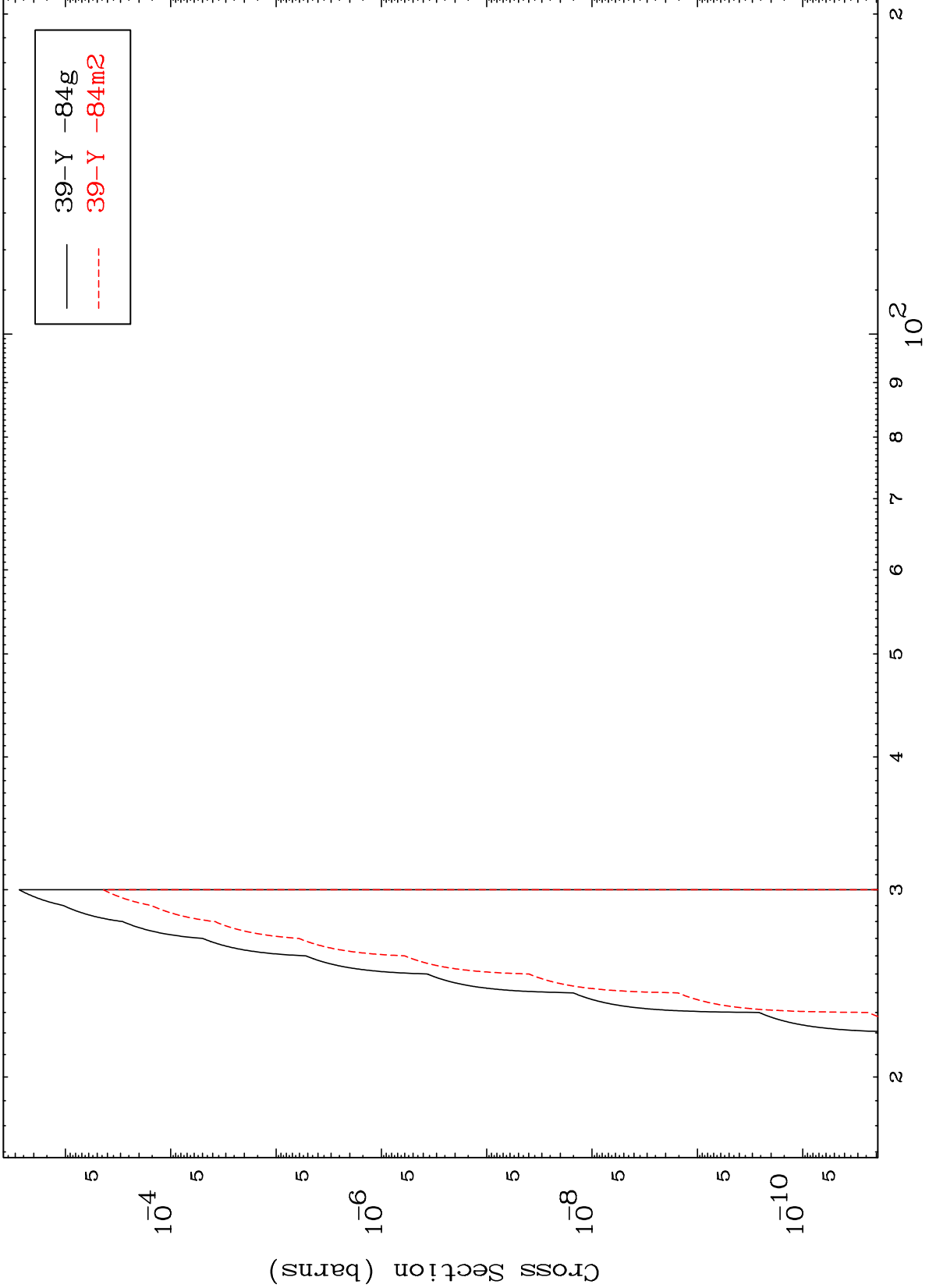
41-Nb-89m

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(n,2n) α

41-Nb-89m

Radionuclide Production Cross Section



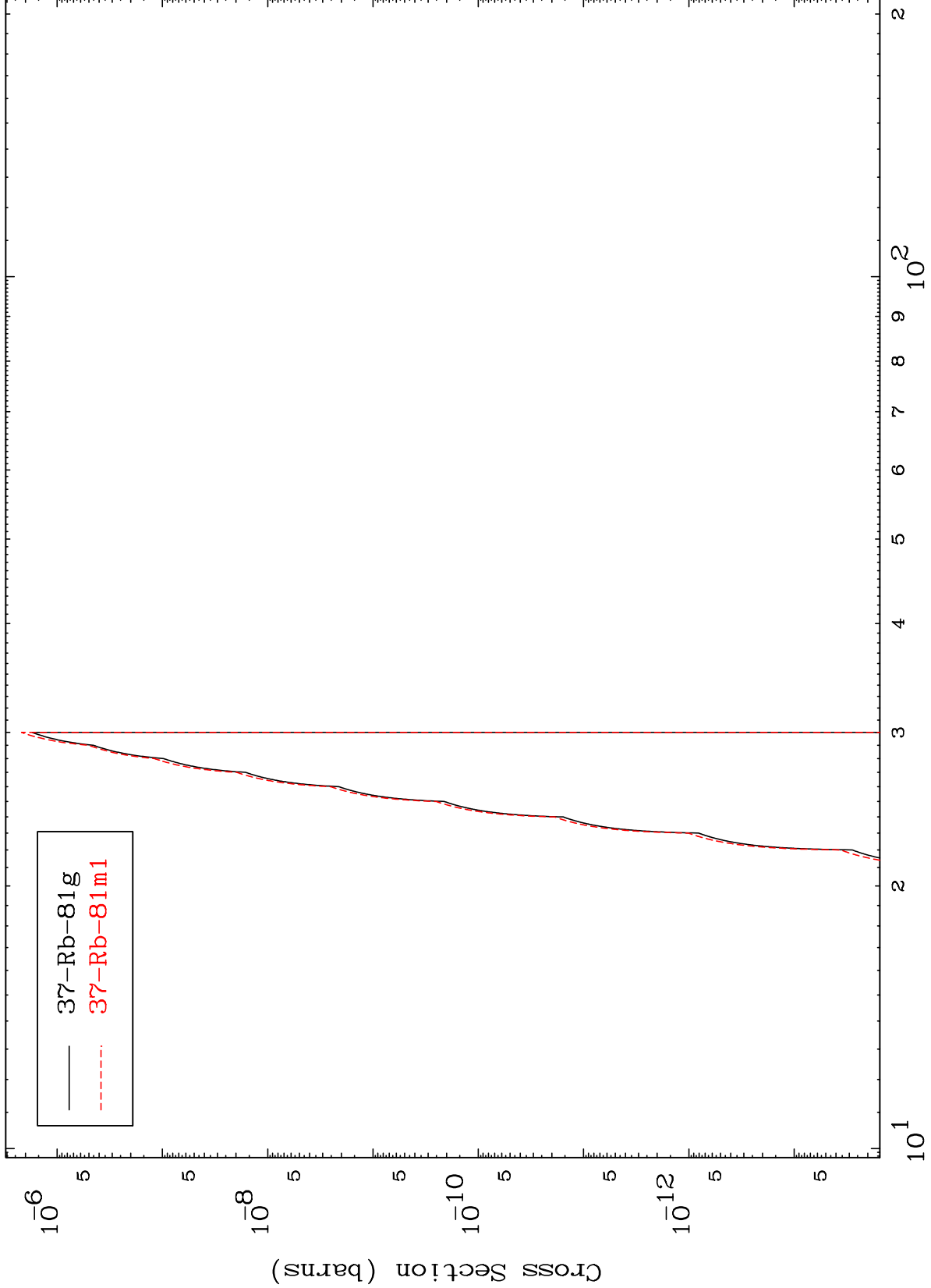
39-Y -84g
39-Y -84m2

MAT 4114

(n,n') 2α

41-Nb-89m

Radionuclide Production Cross Section



Incident Energy (MeV)

41-Nb-89m

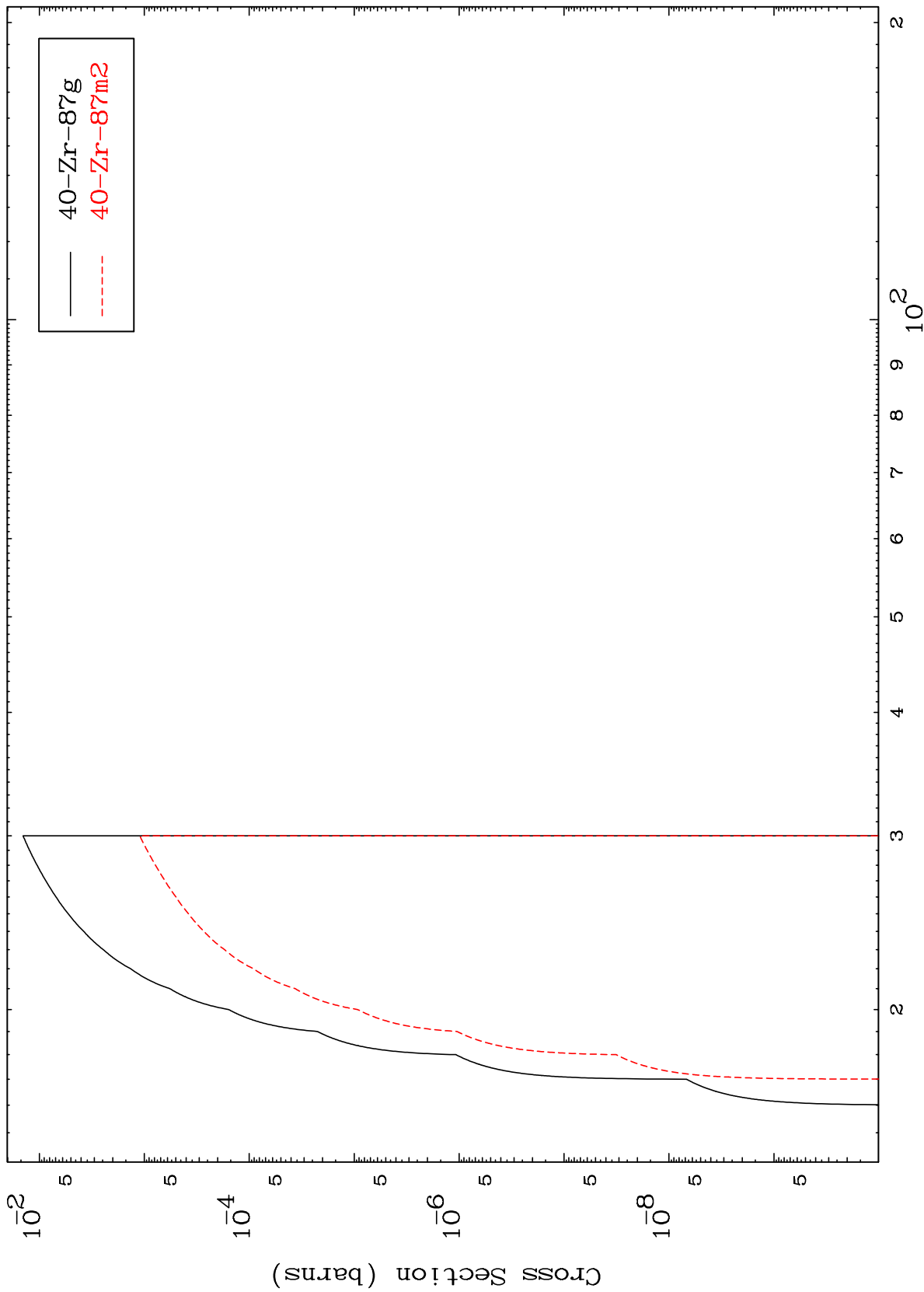
23

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(n,n') d

41-Nb-89m

Radionuclide Production Cross Section



40-Zr-87g
40-Zr-87m2

24

Incident Energy (MeV)

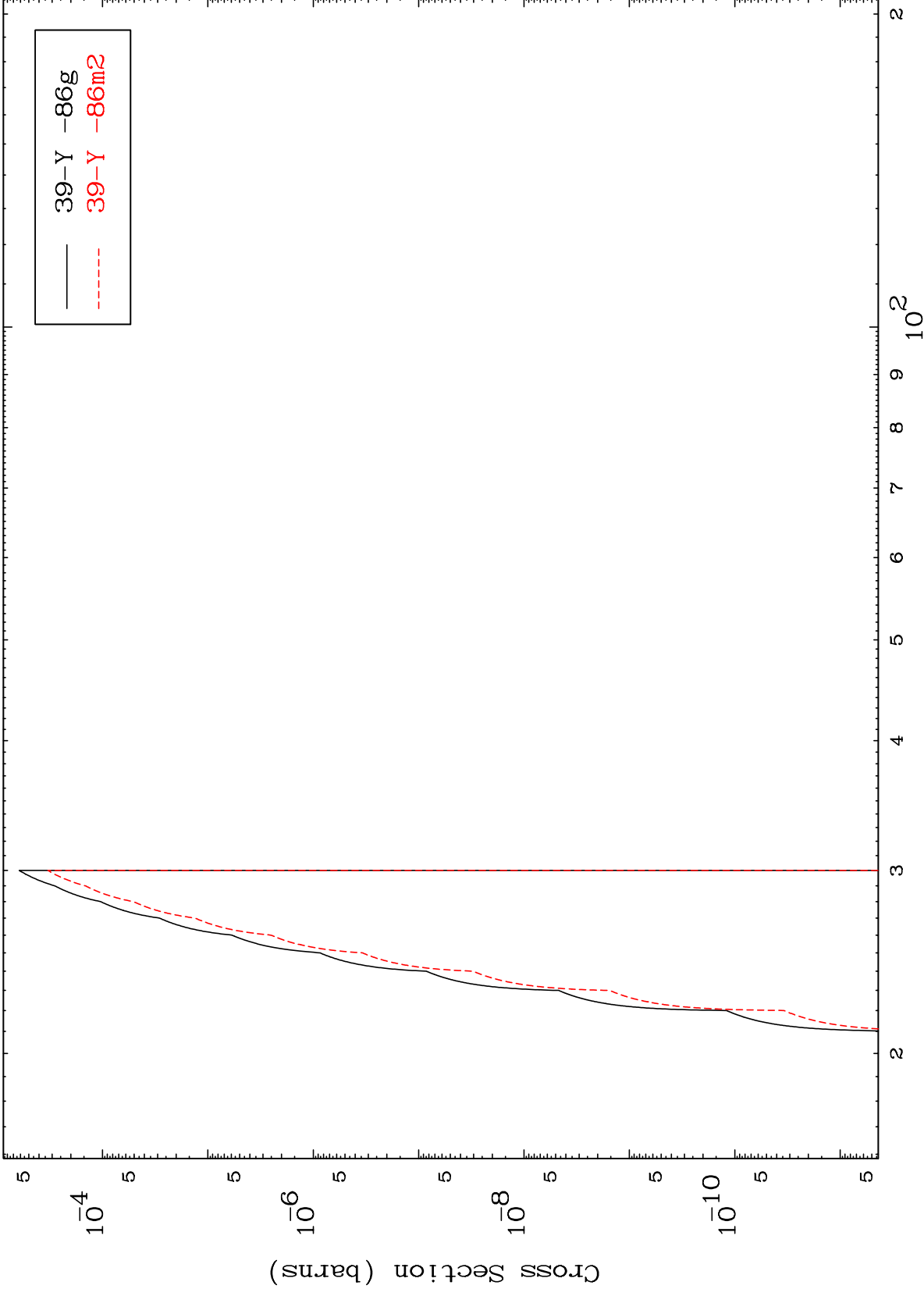
41-Nb-89m

MAT 4114

(n,n') He-3

41-Nb-89m

Radionuclide Production Cross Section



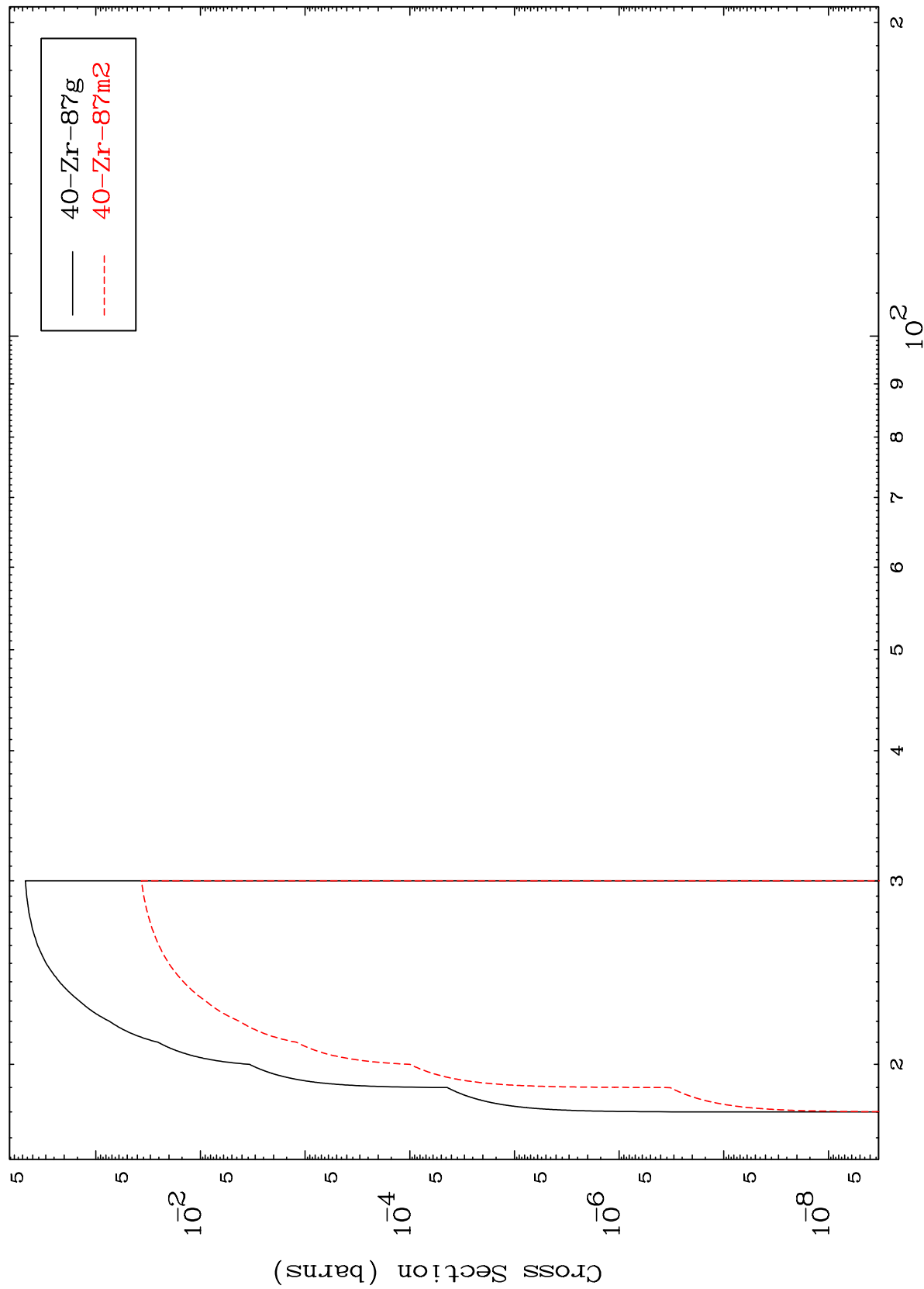
39-Y -86g
39-Y -86m2

MAT 4114

(n,2n) p

41-Nb-89m

Radionuclide Production Cross Section



26

Incident Energy (MeV)

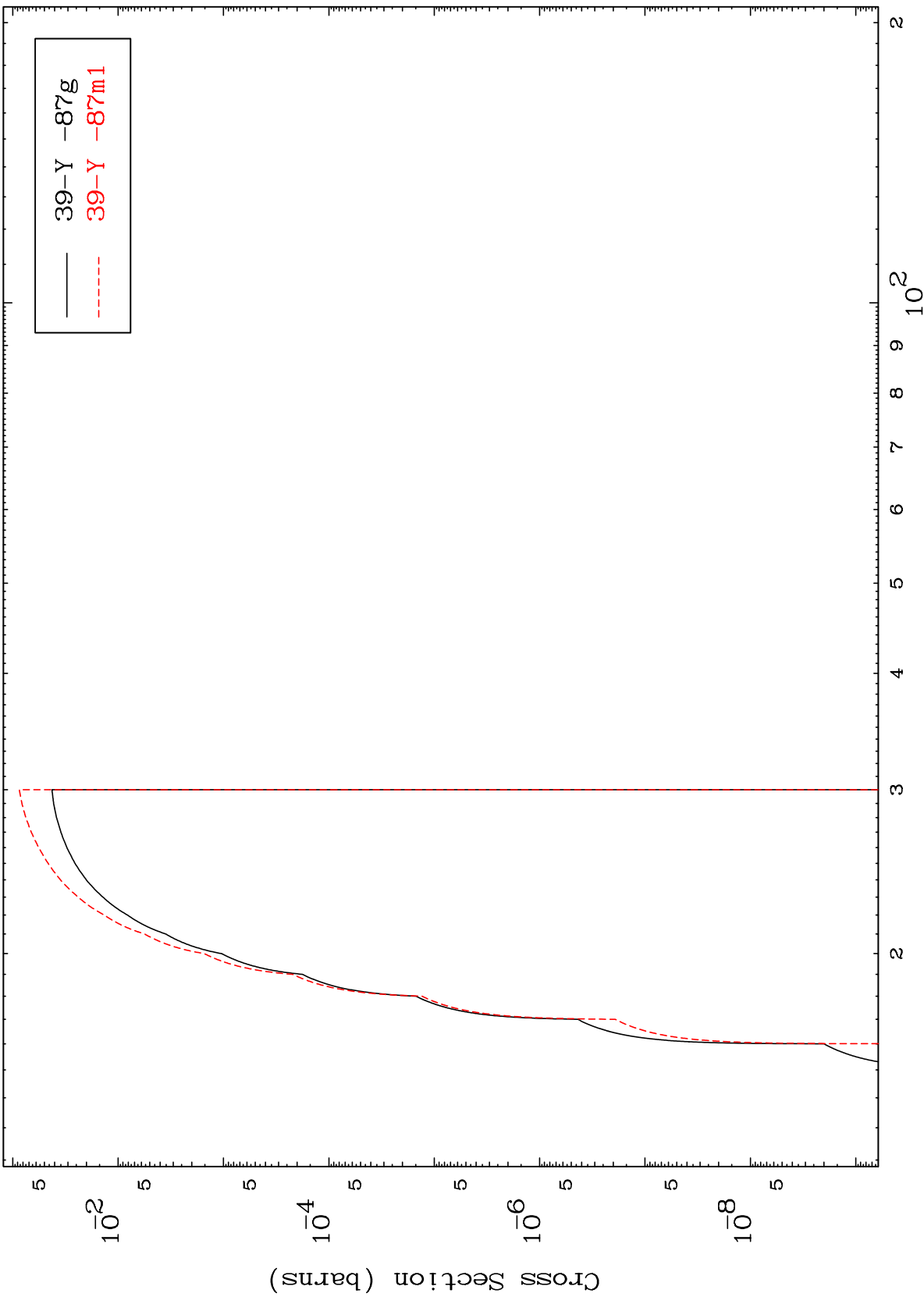
41-Nb-89m

MAT 4114

(n,2n) p

41-Nb-89m

Radionuclide Production Cross Section



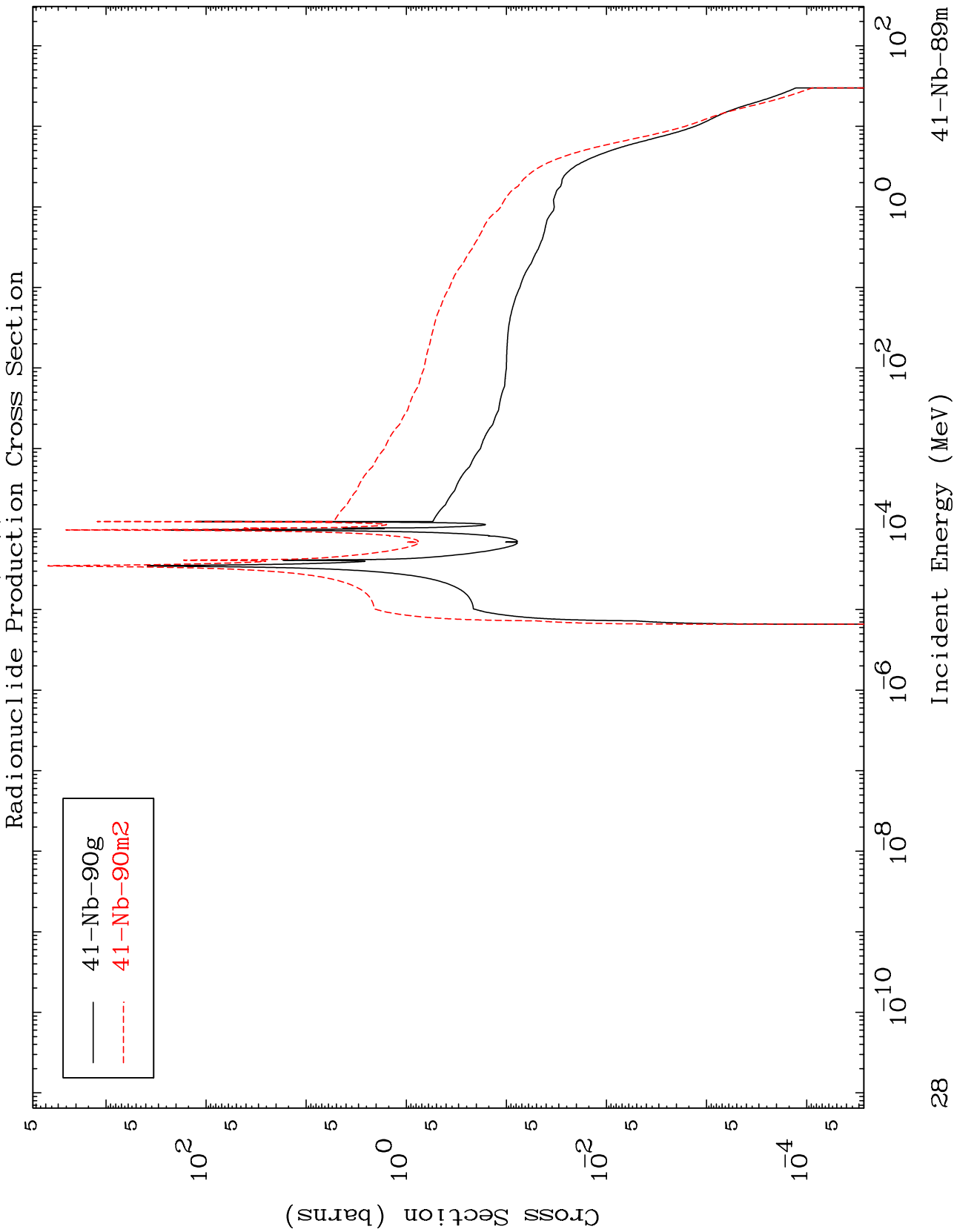
27

Incident Energy (MeV)

41-Nb-89m

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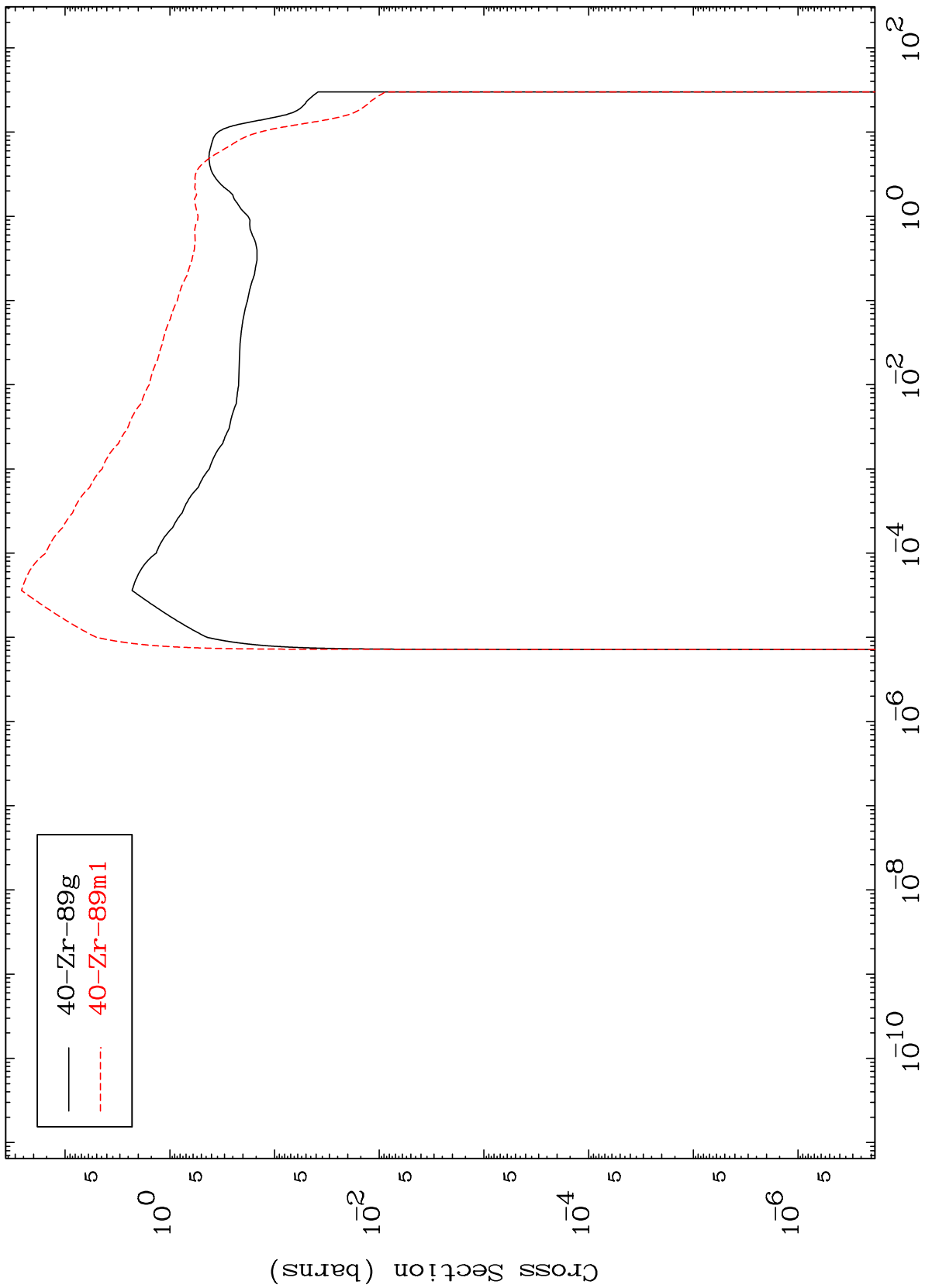
41-Nb-89m



MAT 4114

41-Nb-89m

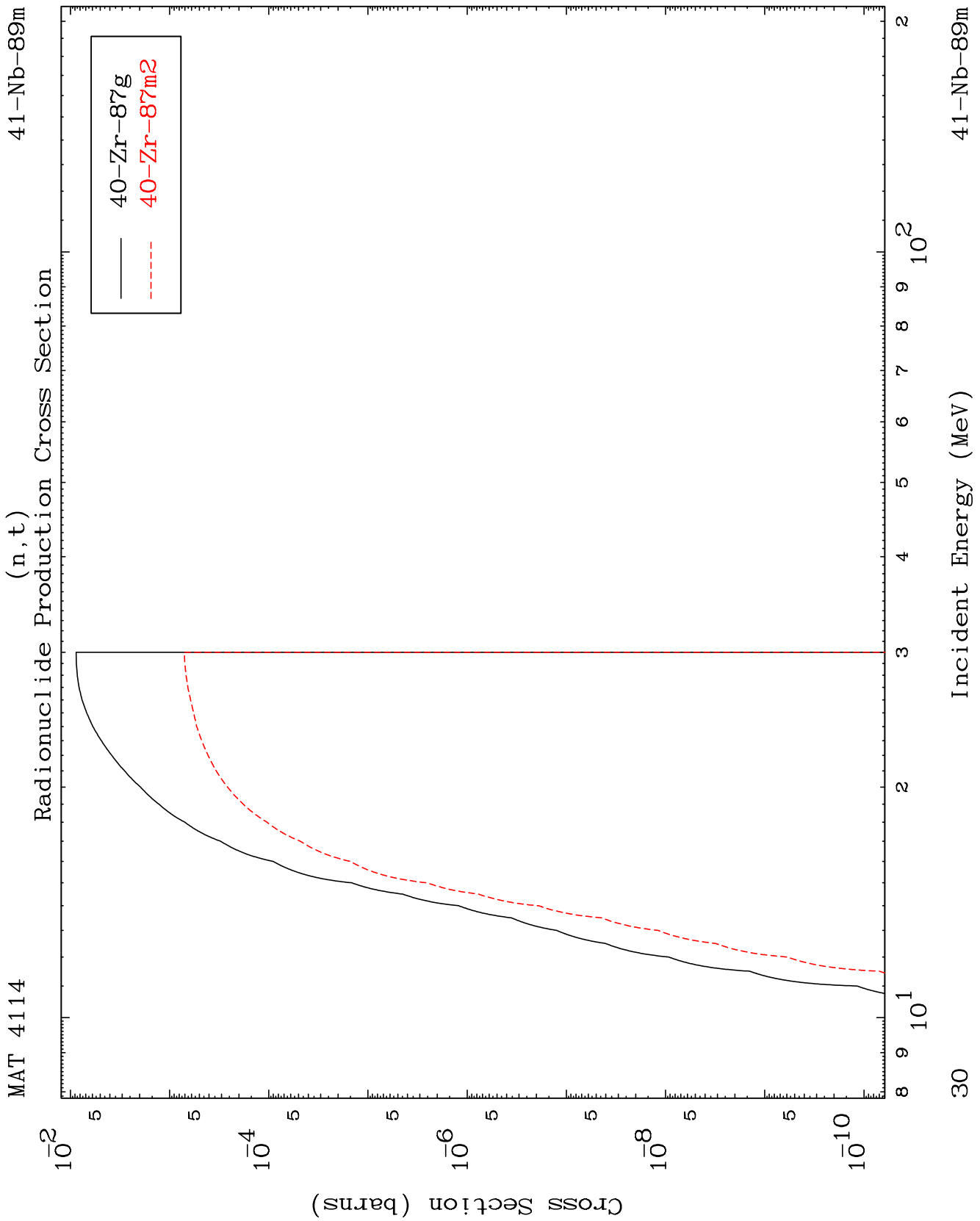
(n,p)
Radionuclide Production Cross Section



— 40-Zr-89g
- - - 40-Zr-89m1

Incident Energy (MeV)

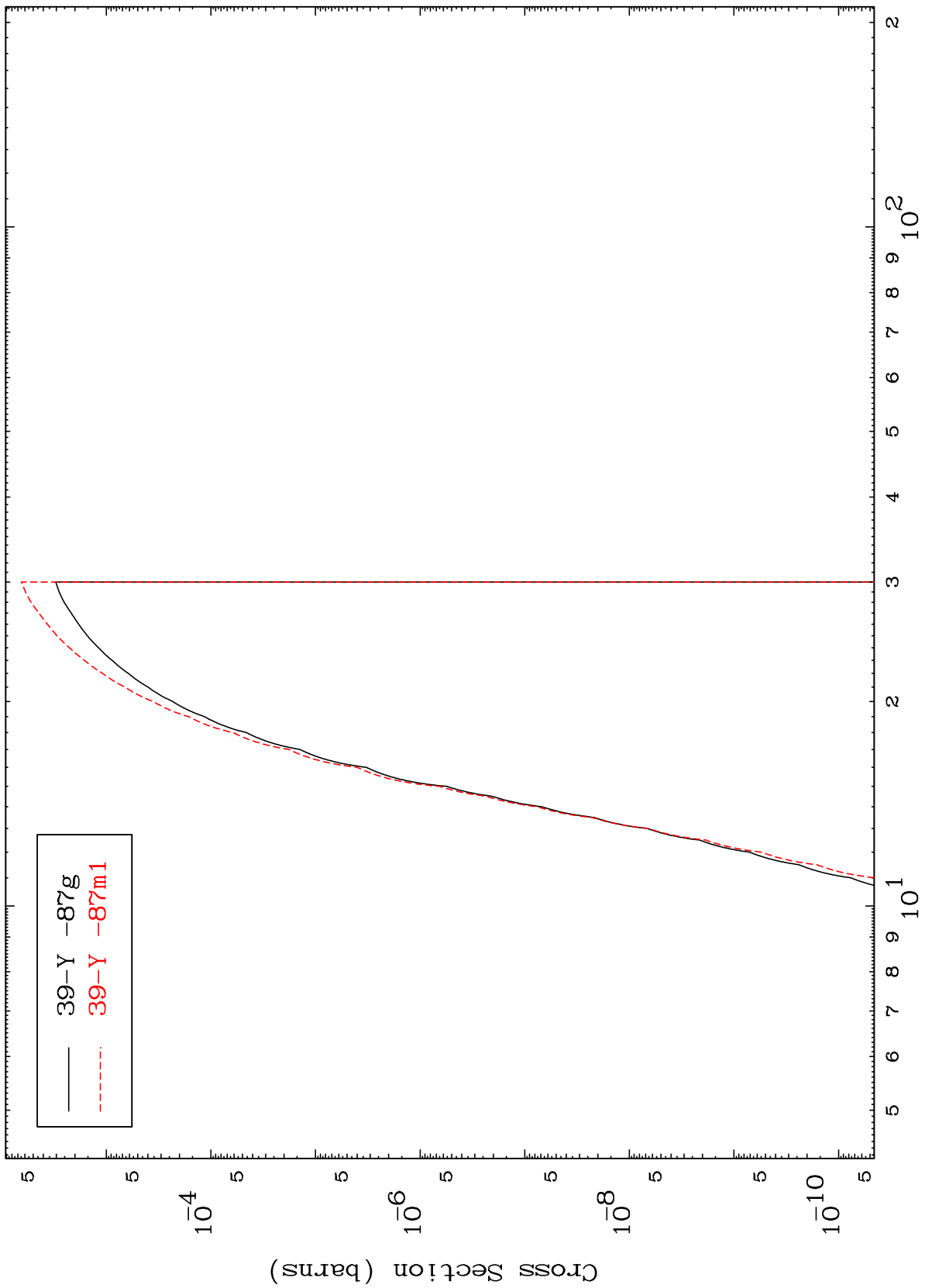
41-Nb-89m



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41-Nb-89m

(n,He-3)
Radionuclide Production Cross Section



31

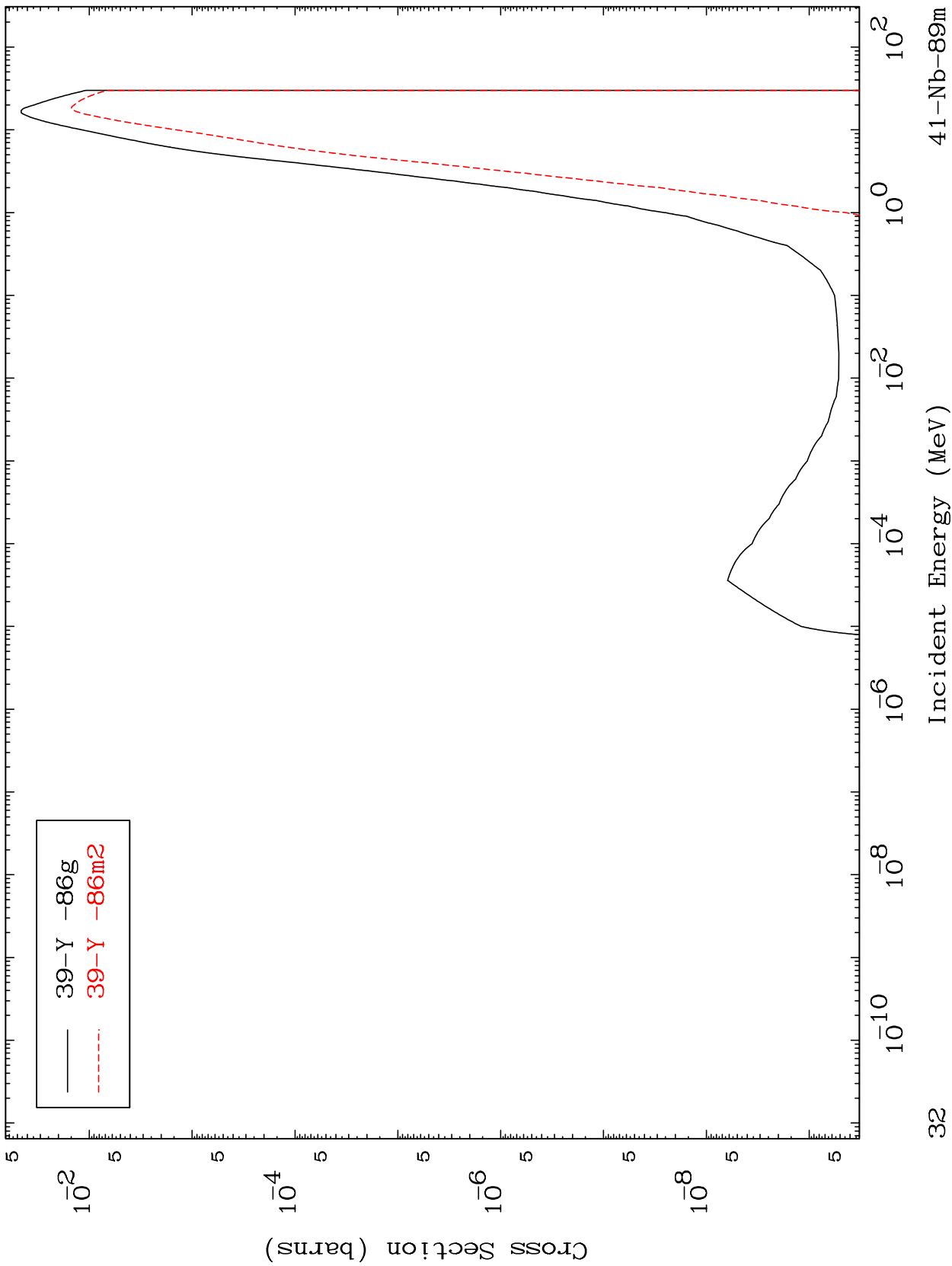
Incident Energy (MeV)

41-Nb-89m

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41-Nb-89m

(n, α)
Radionuclide Production Cross Section

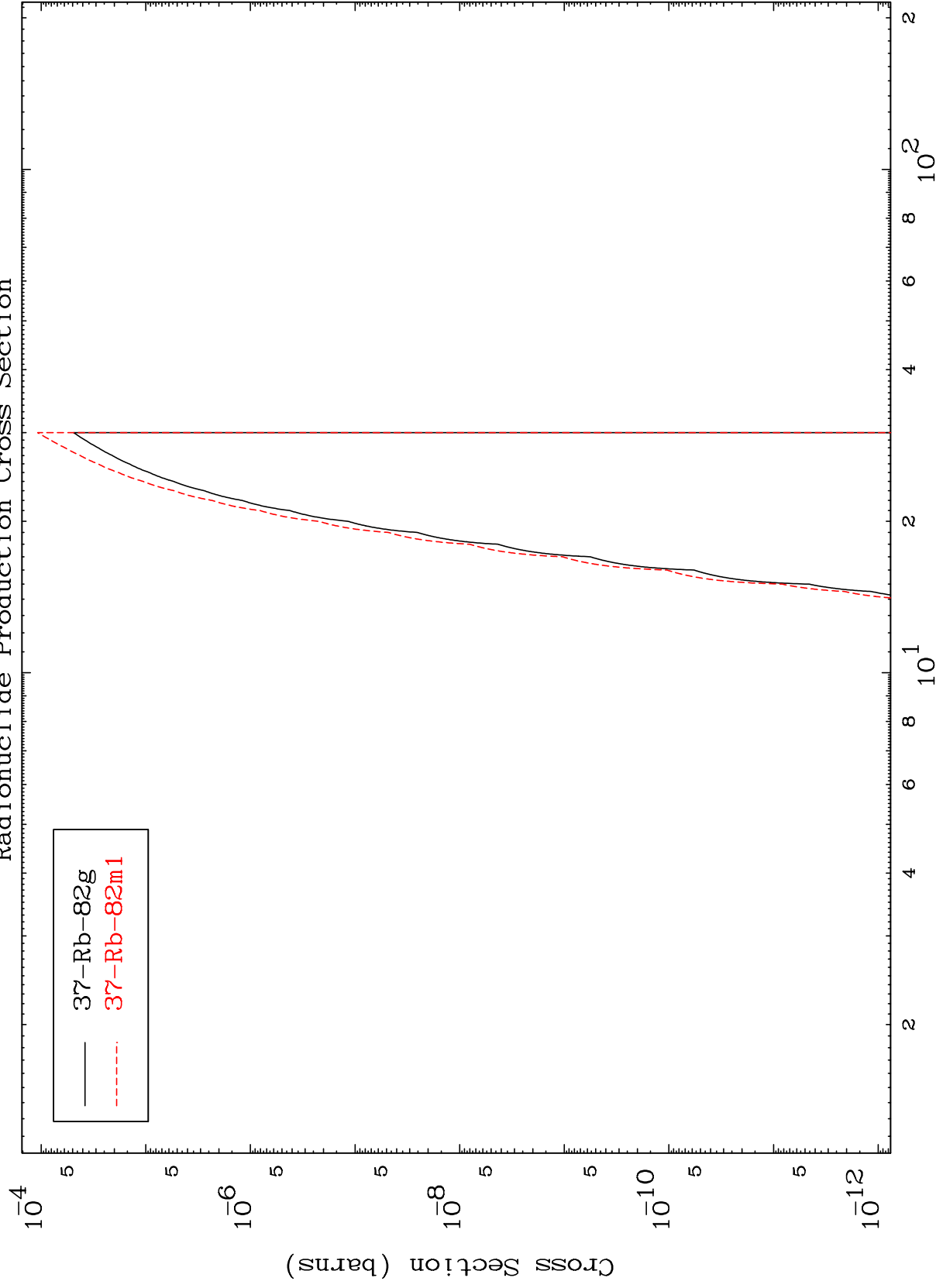


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(n,2α)

41-Nb-89m

Radionuclide Production Cross Section



33

Incident Energy (MeV)

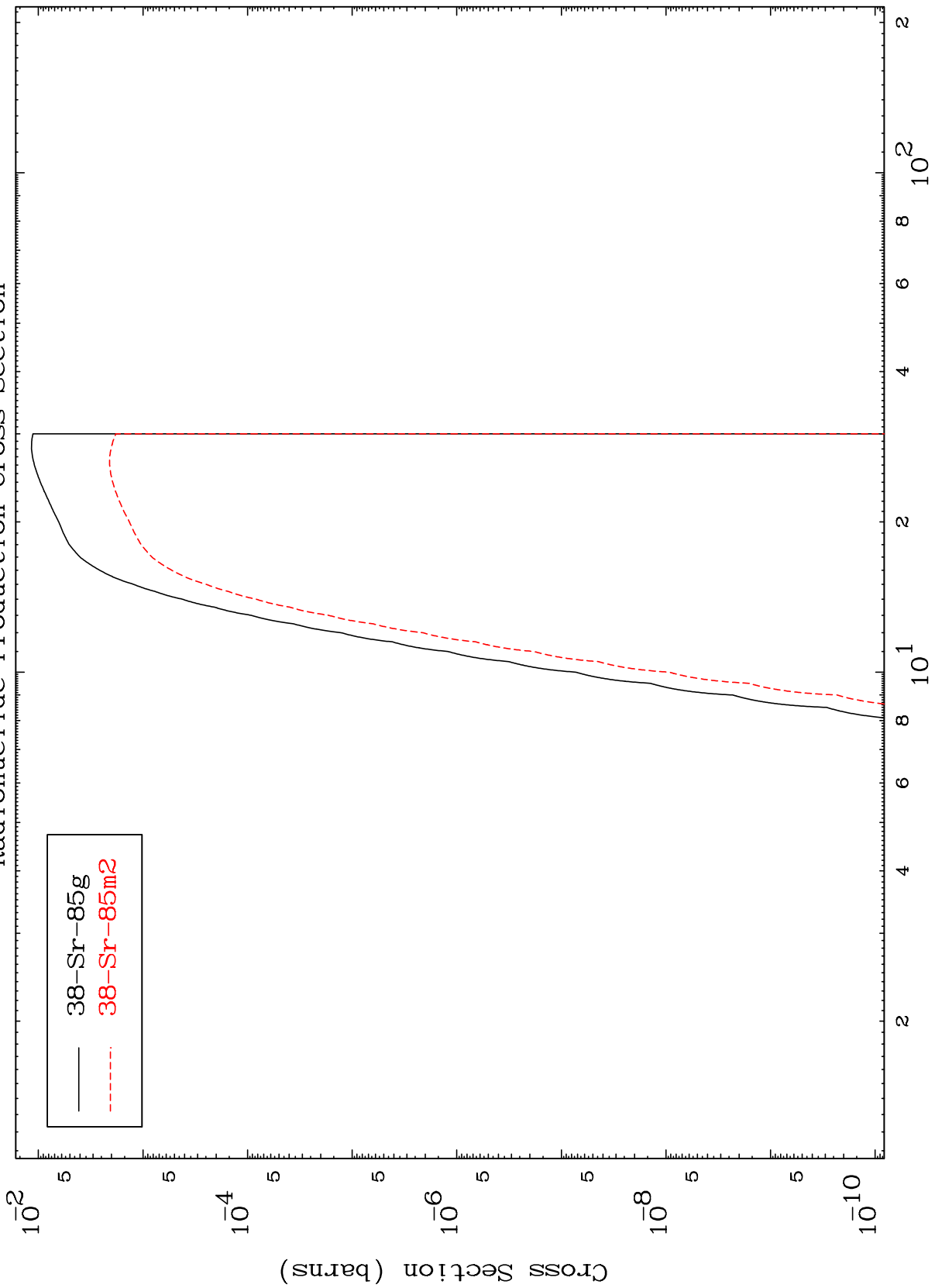
41-Nb-89m

MAT 4114

(n,p) α

41-Nb-89m

Radionuclide Production Cross Section



Incident Energy (MeV)

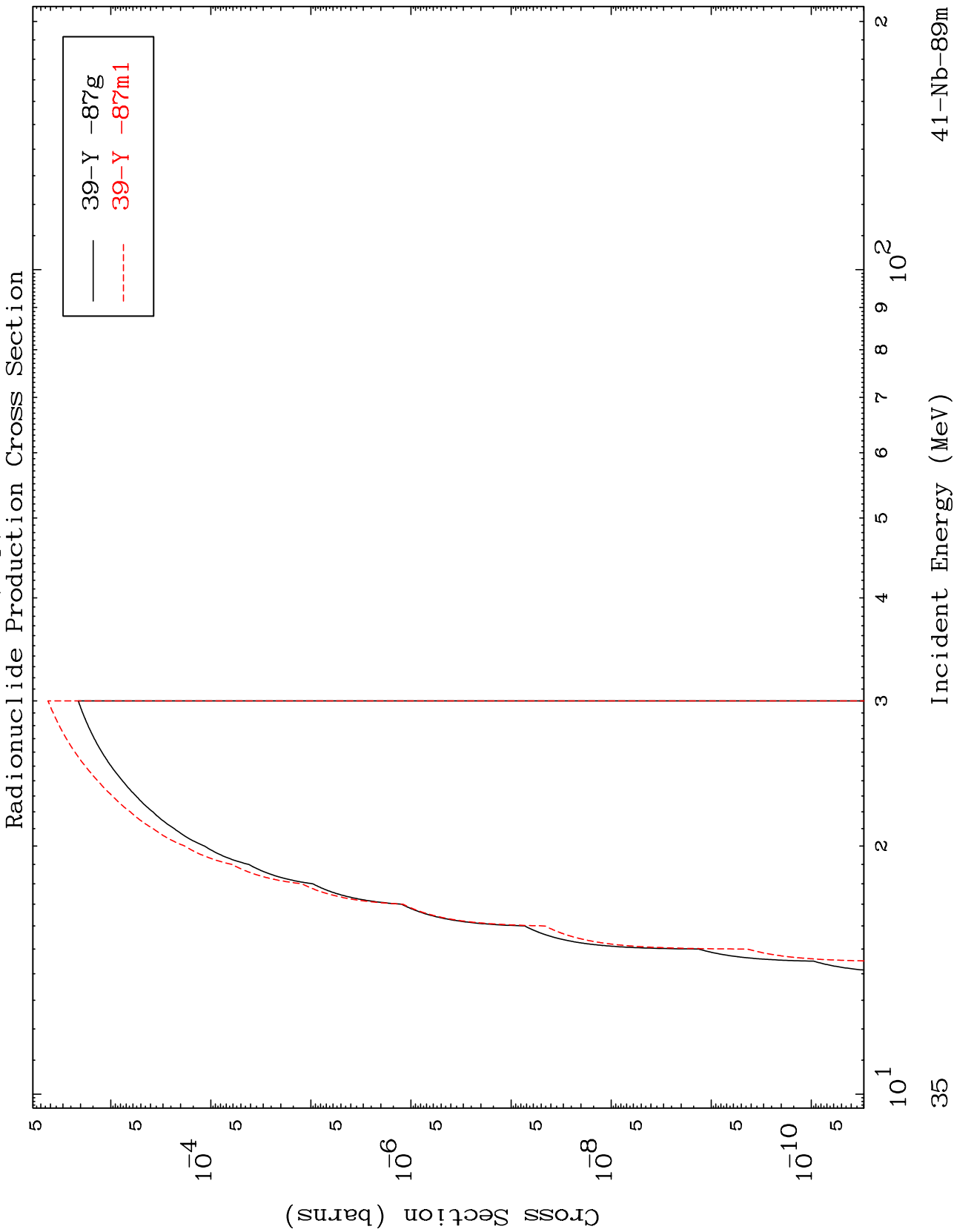
41-Nb-89m

34

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(n,p) d

41-Nb-89m



35

Incident Energy (MeV)

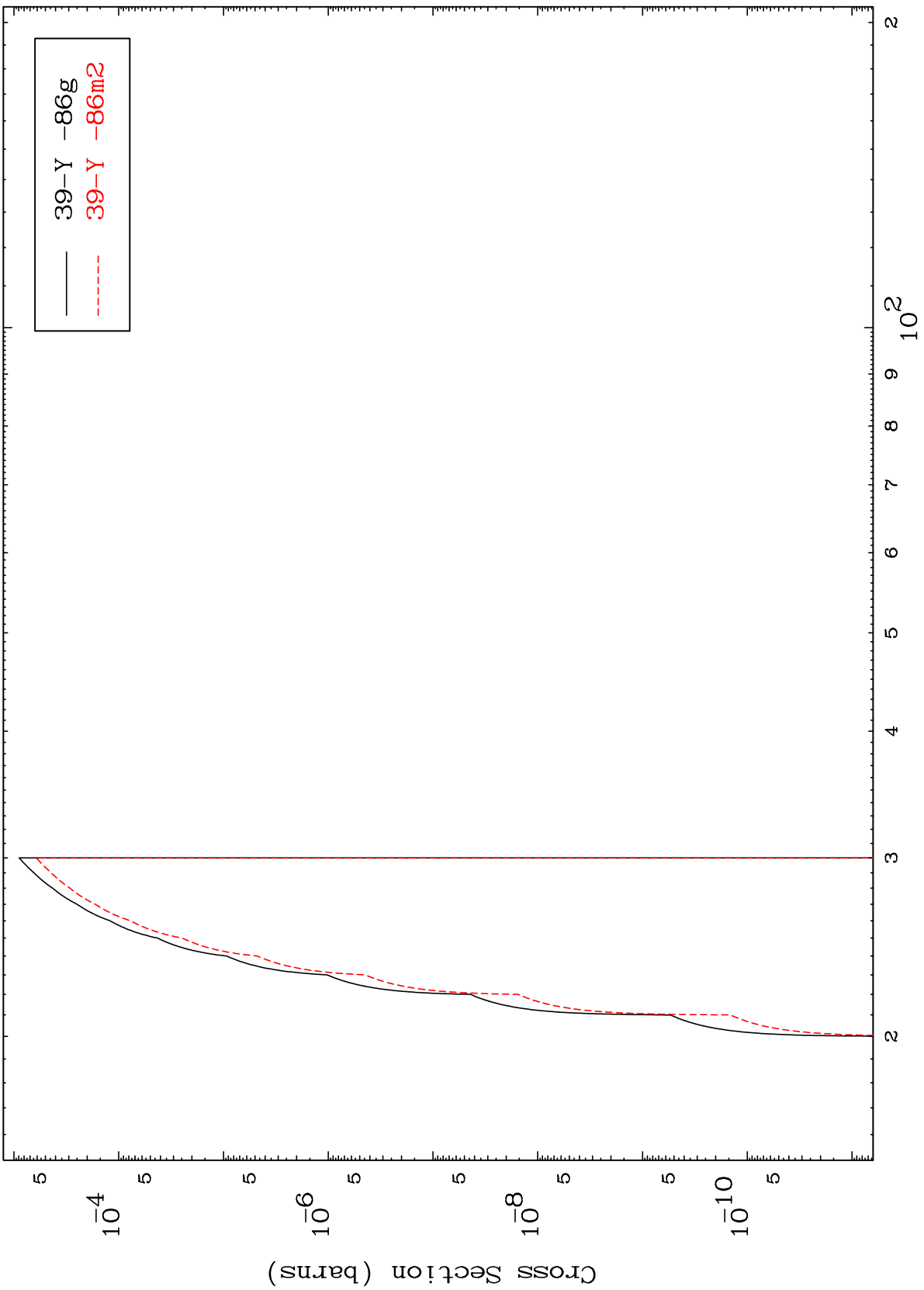
41-Nb-89m

MAT 4114

(n,p) t

41-Nb-89m

Radionuclide Production Cross Section



36

Incident Energy (MeV)

41-Nb-89m