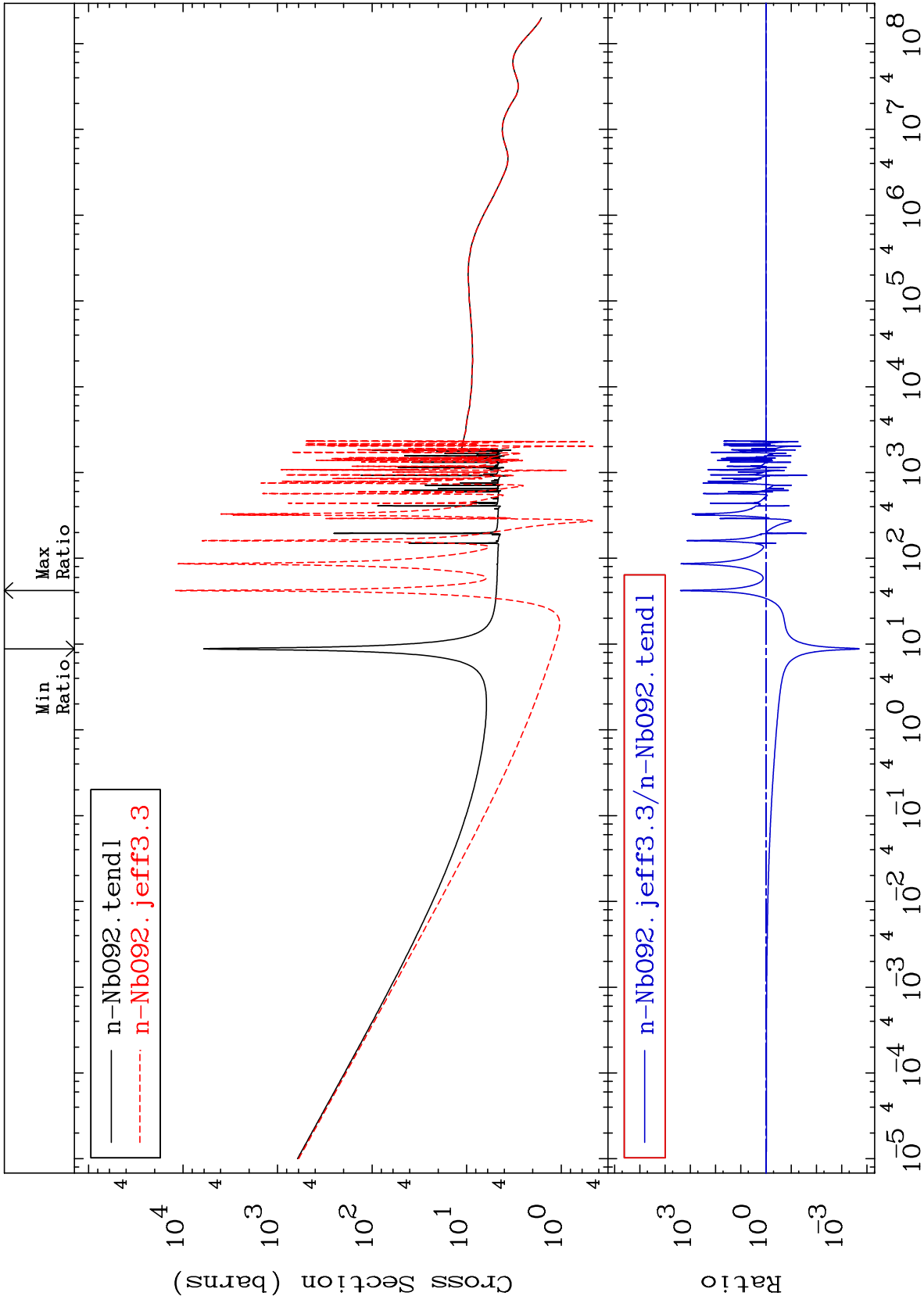


MAT 4122

Total Cross Section  
41-Nb-92  
-99.98 To 9999. %

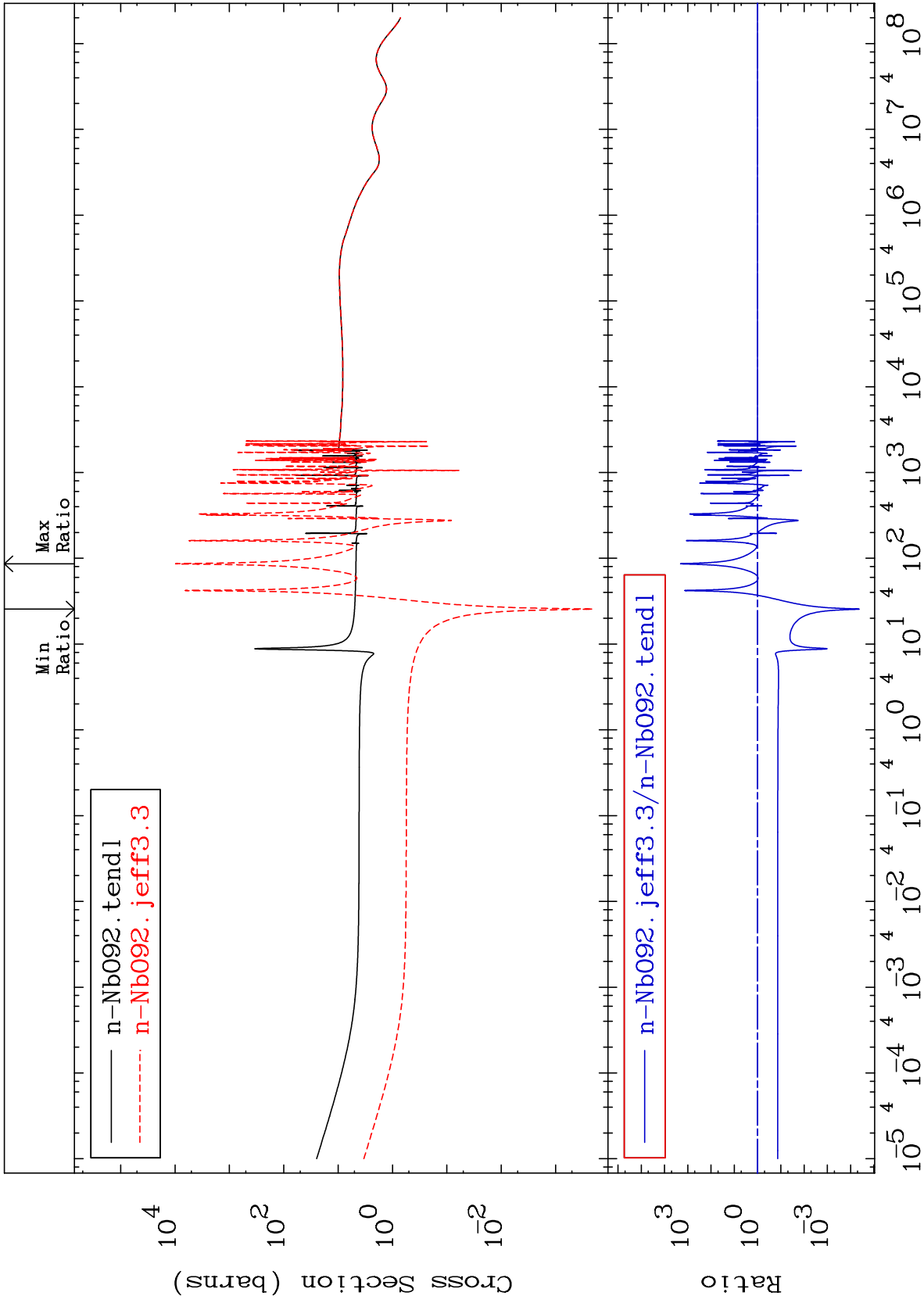


41-Nb-92

Incident Energy (eV)

MAT 4122

Elastic Cross Section  
41-Nb-92  
-100.0 To 9999. %



41-Nb-92

Incident Energy (eV)

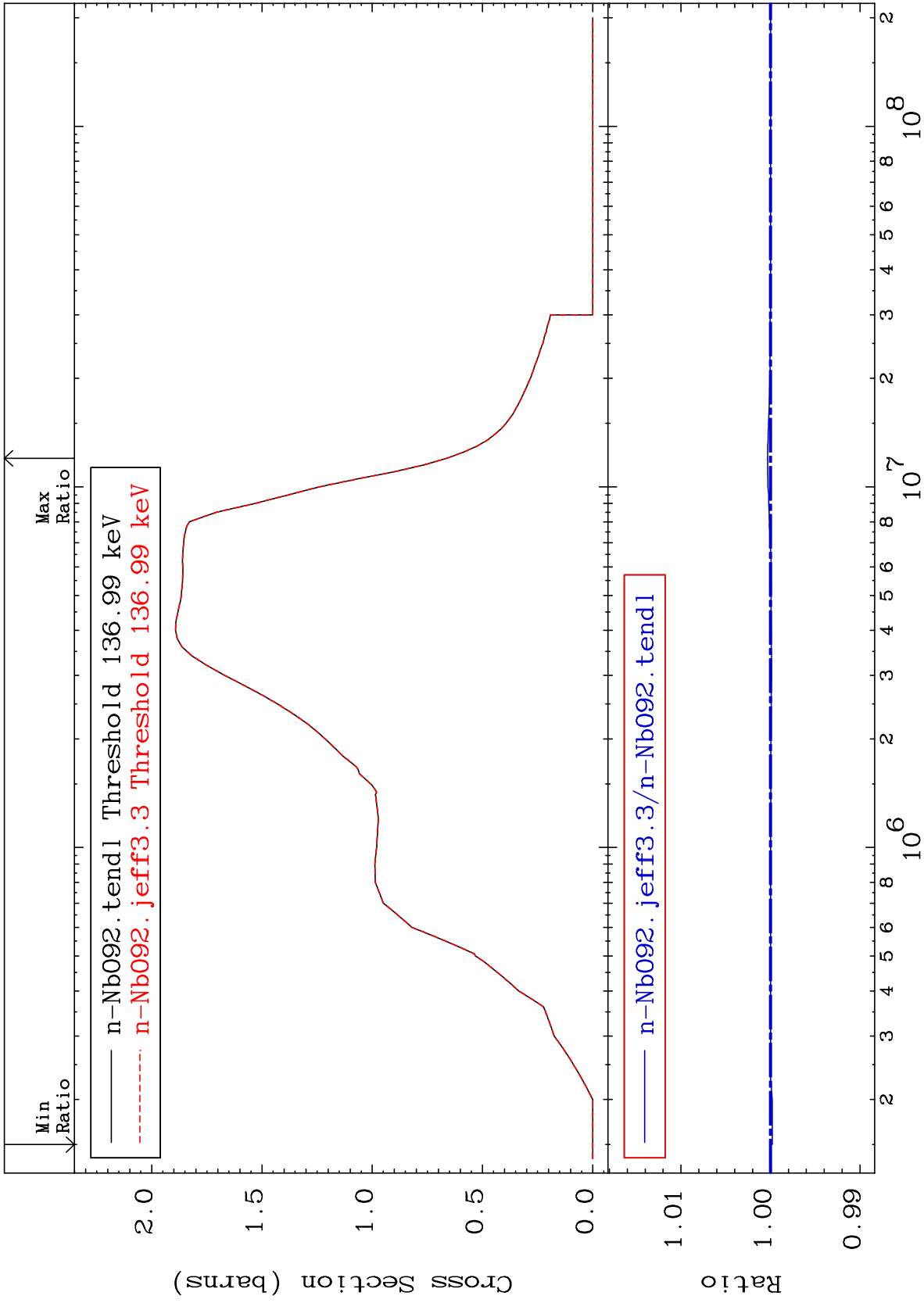
2

MAT 4122

41-Nb-92

Inelastic  
Cross Section

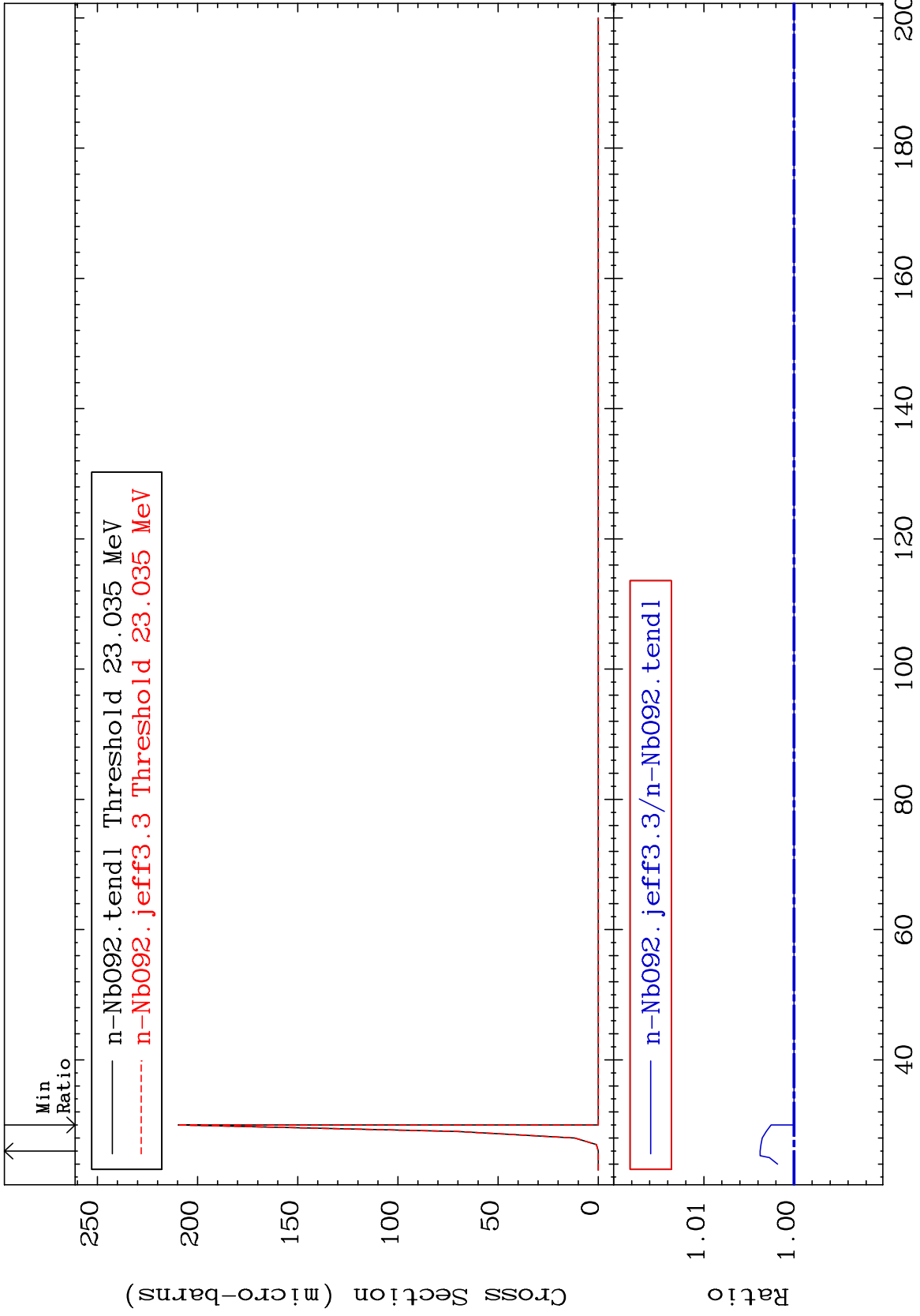
-0.019 To 0.033 %



MAT 4122

(n,2n) d  
Cross Section

41-Nb-92  
0.000 To 0.376 %



MAT 4122

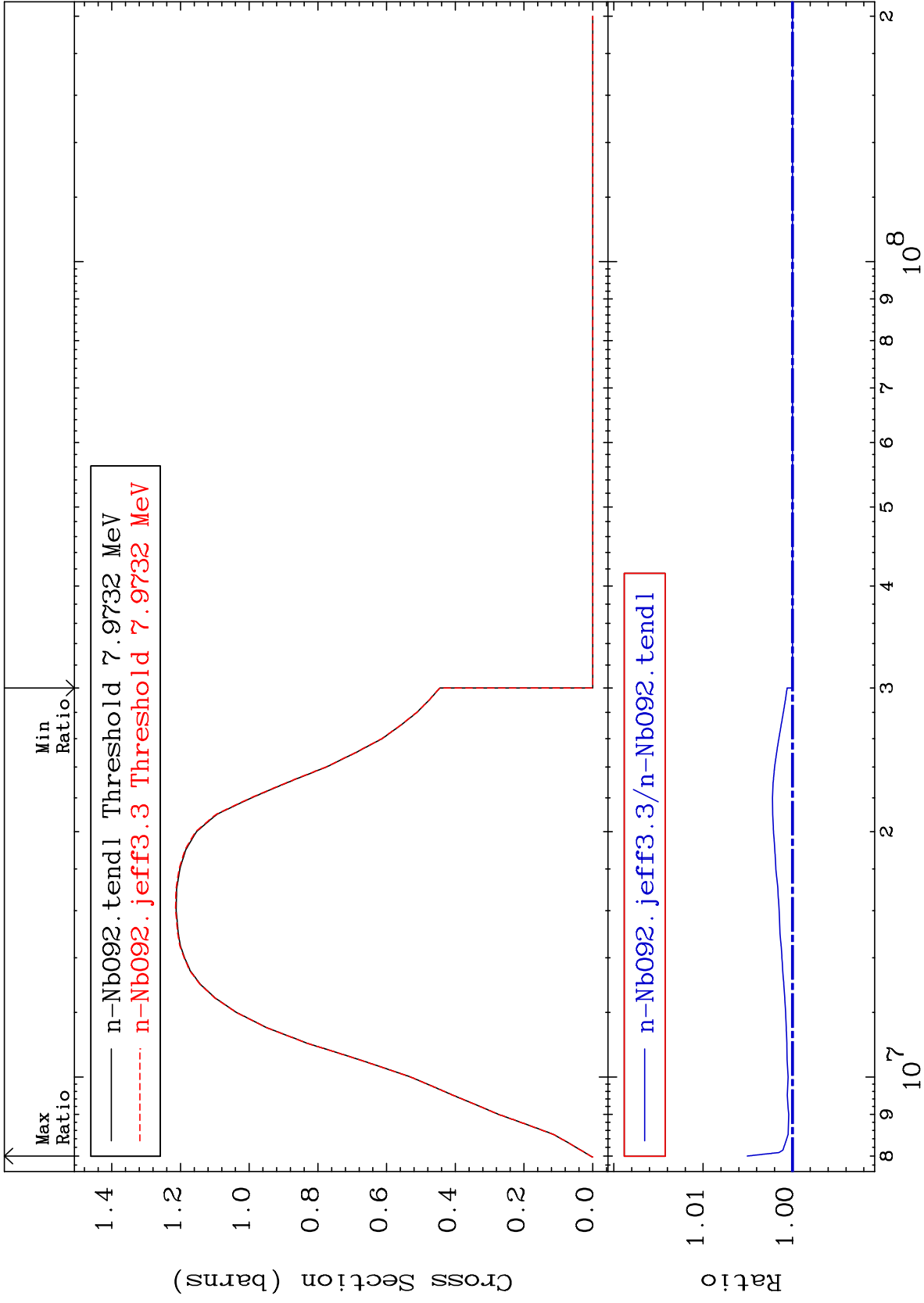
(n,2n)

41-Nb-92

Cross Section

0.000

To 0.505 %



5

Incident Energy (eV)

41-Nb-92

MAT 4122

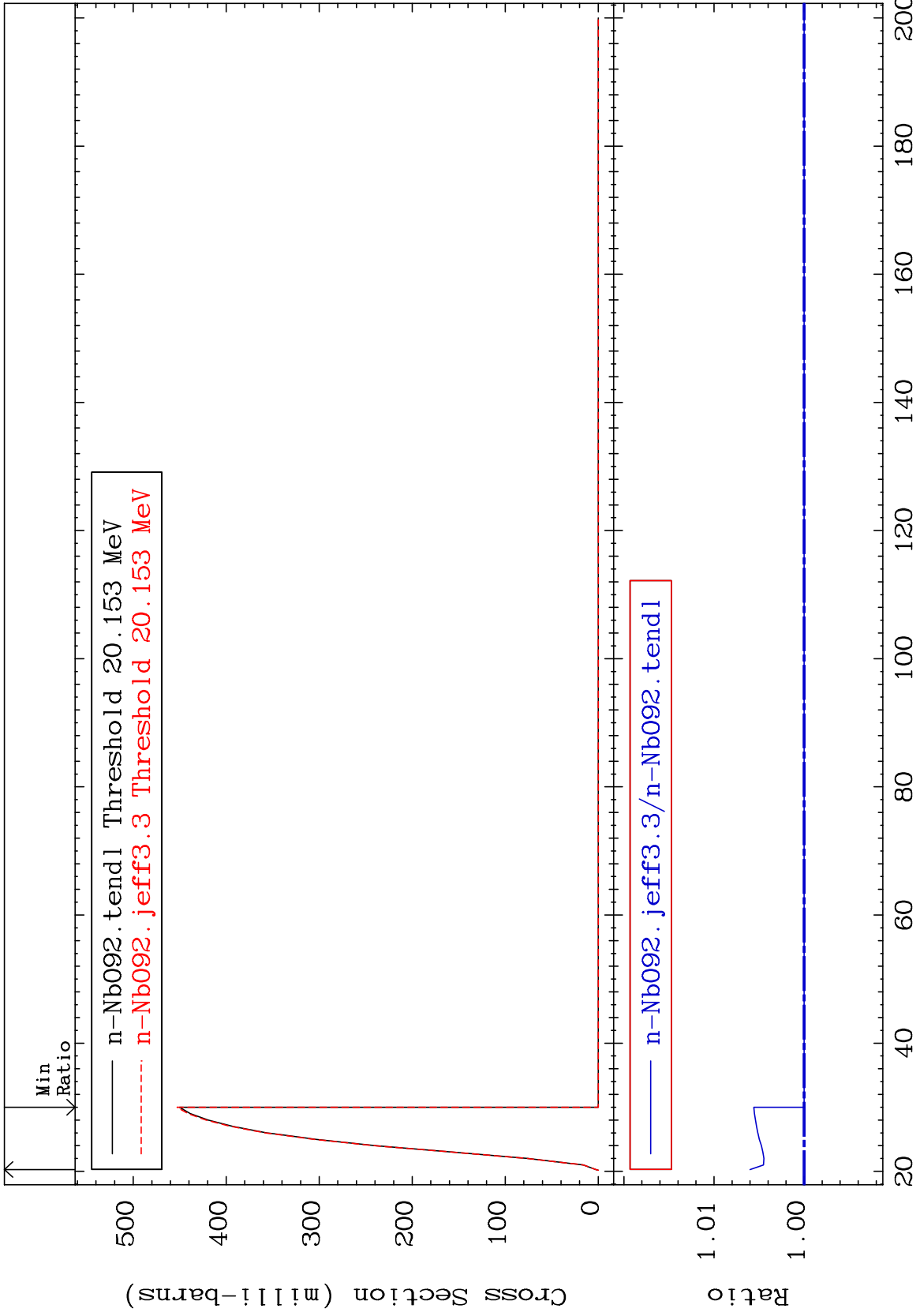
(n,3n)

41-Nb-92

Cross Section

0.000

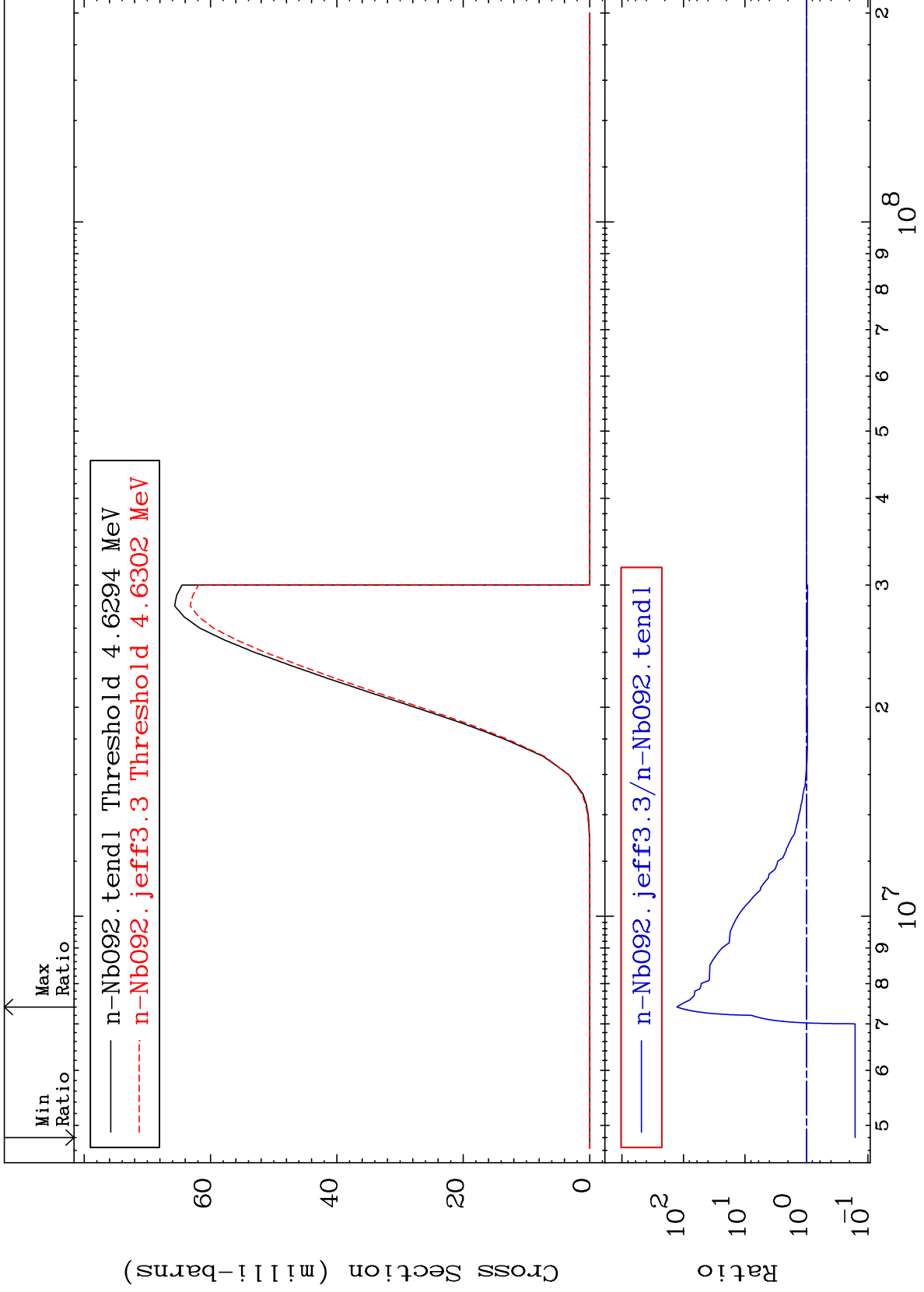
To 0.600 %



MAT 4122

(n, n')  $\alpha$   
Cross Section

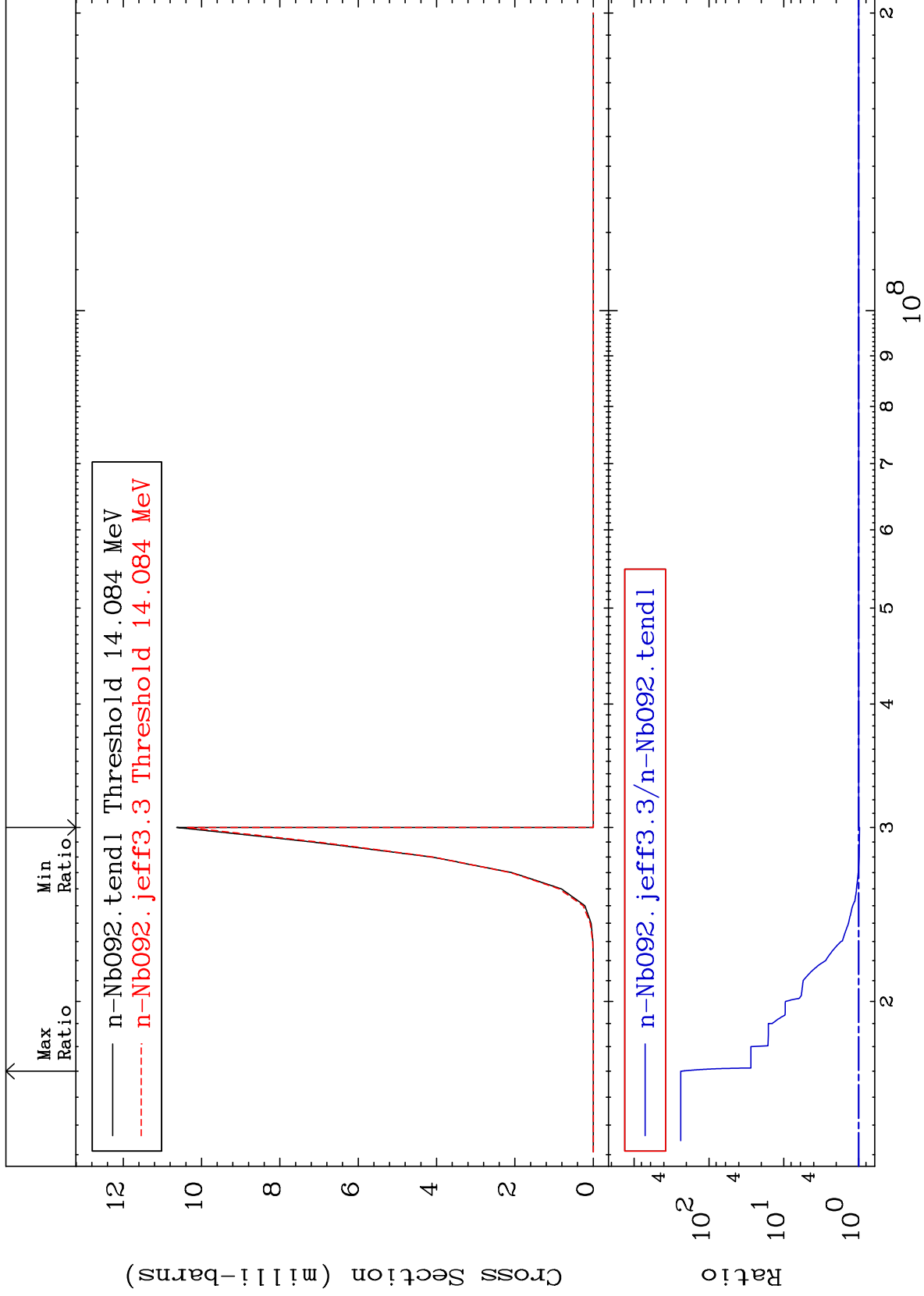
41-Nb-92  
-83.81 To 9999. %



MAT 4122

(n,2n)  $\alpha$   
Cross Section

41-Nb-92  
-2.328 To 9999. %

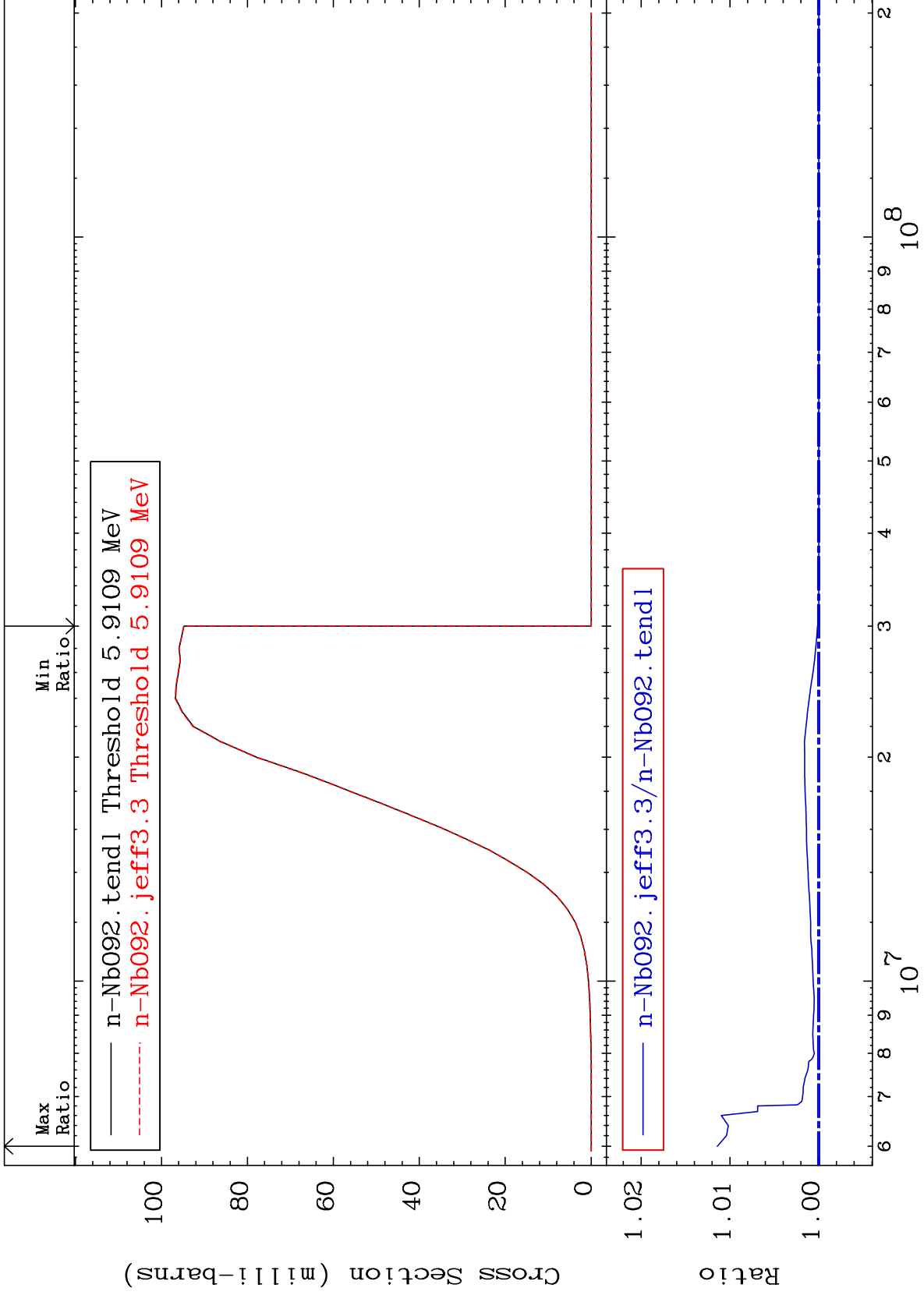




MAT 4122

(n, n') p  
Cross Section

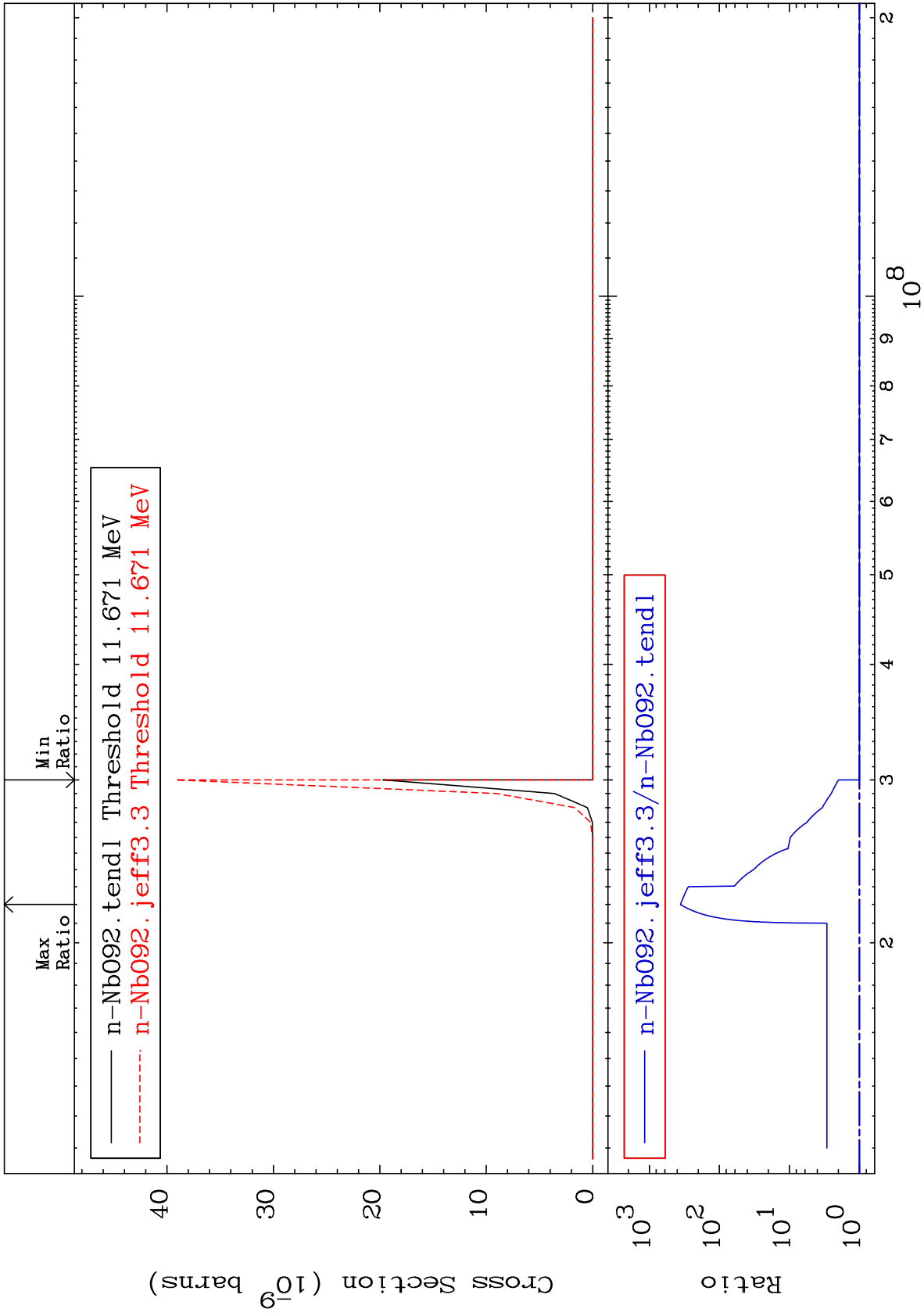
41-Nb-92  
To 1.143 %  
0.000



MAT 4122

(n, n') 2α  
Cross Section

41-Nb-92  
0.000 To 9999. %



10

Incident Energy (eV)

41-Nb-92

MAT 4122

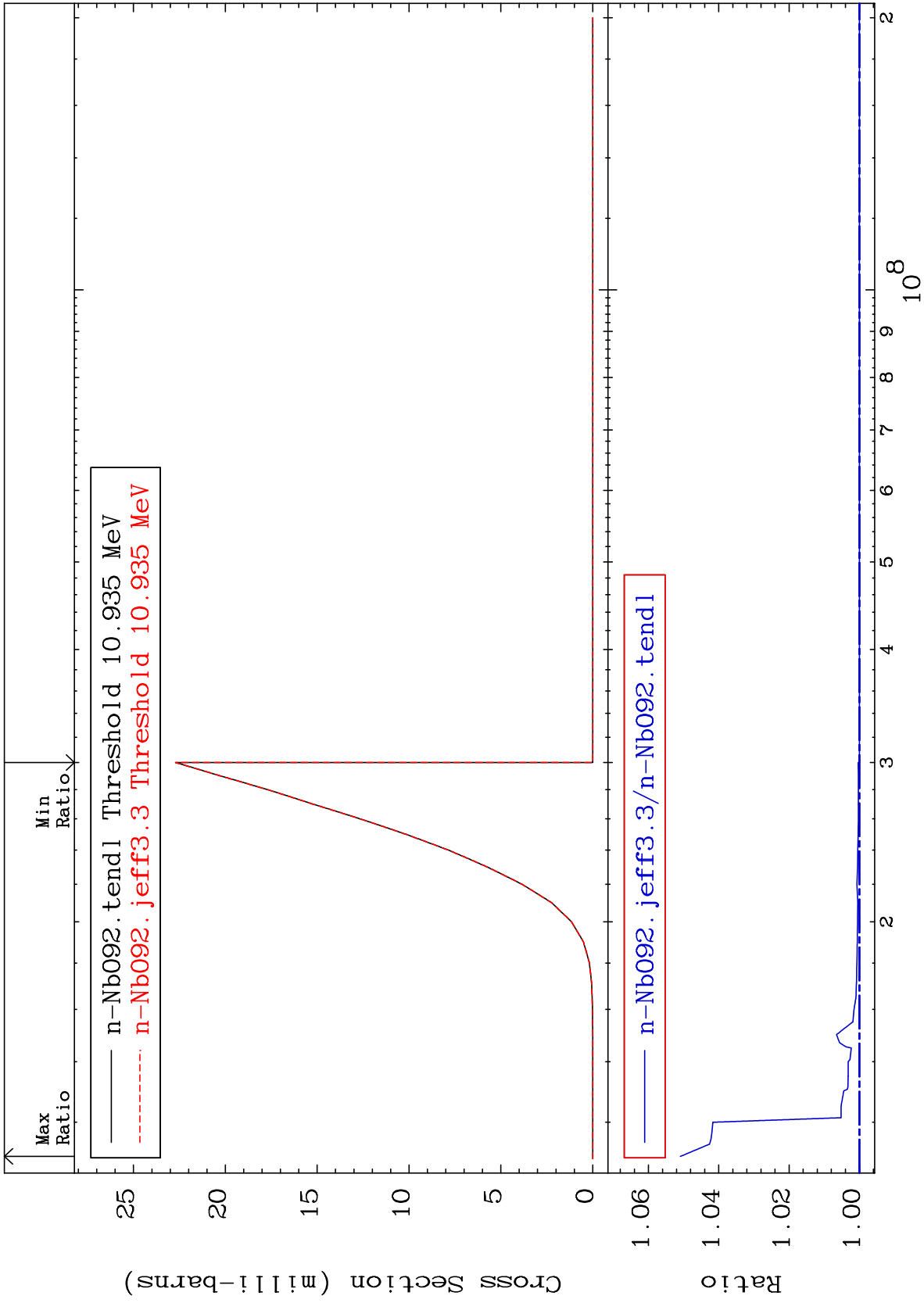
(n,n') d

41-Nb-92

Cross Section

0.000

To 5.092 %



MAT 4122

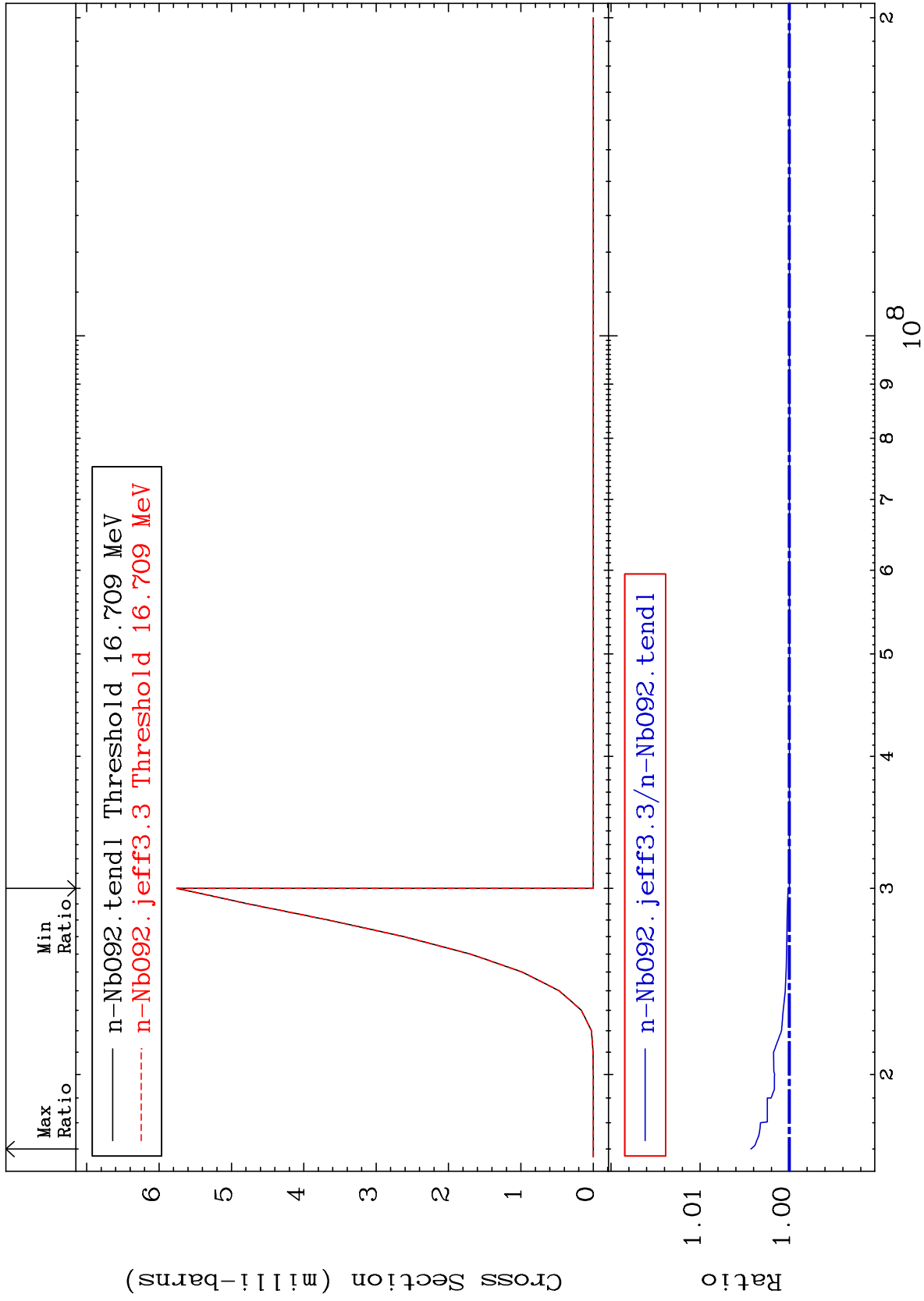
(n,n') t

41-Nb-92

Cross Section

0.000

To 0.430 %



12

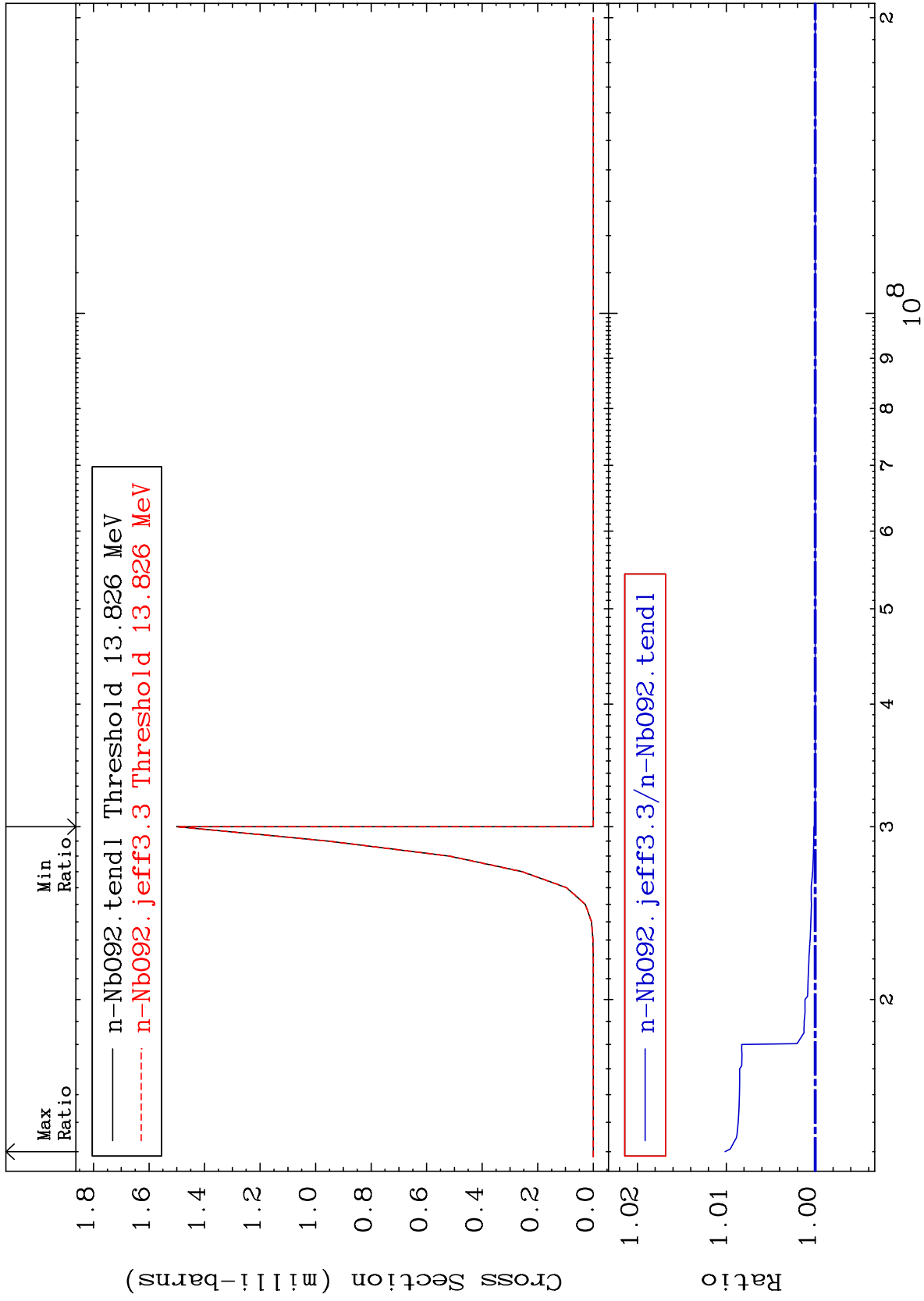
Incident Energy (eV)

41-Nb-92

MAT 4122

(n,n') He-3  
Cross Section

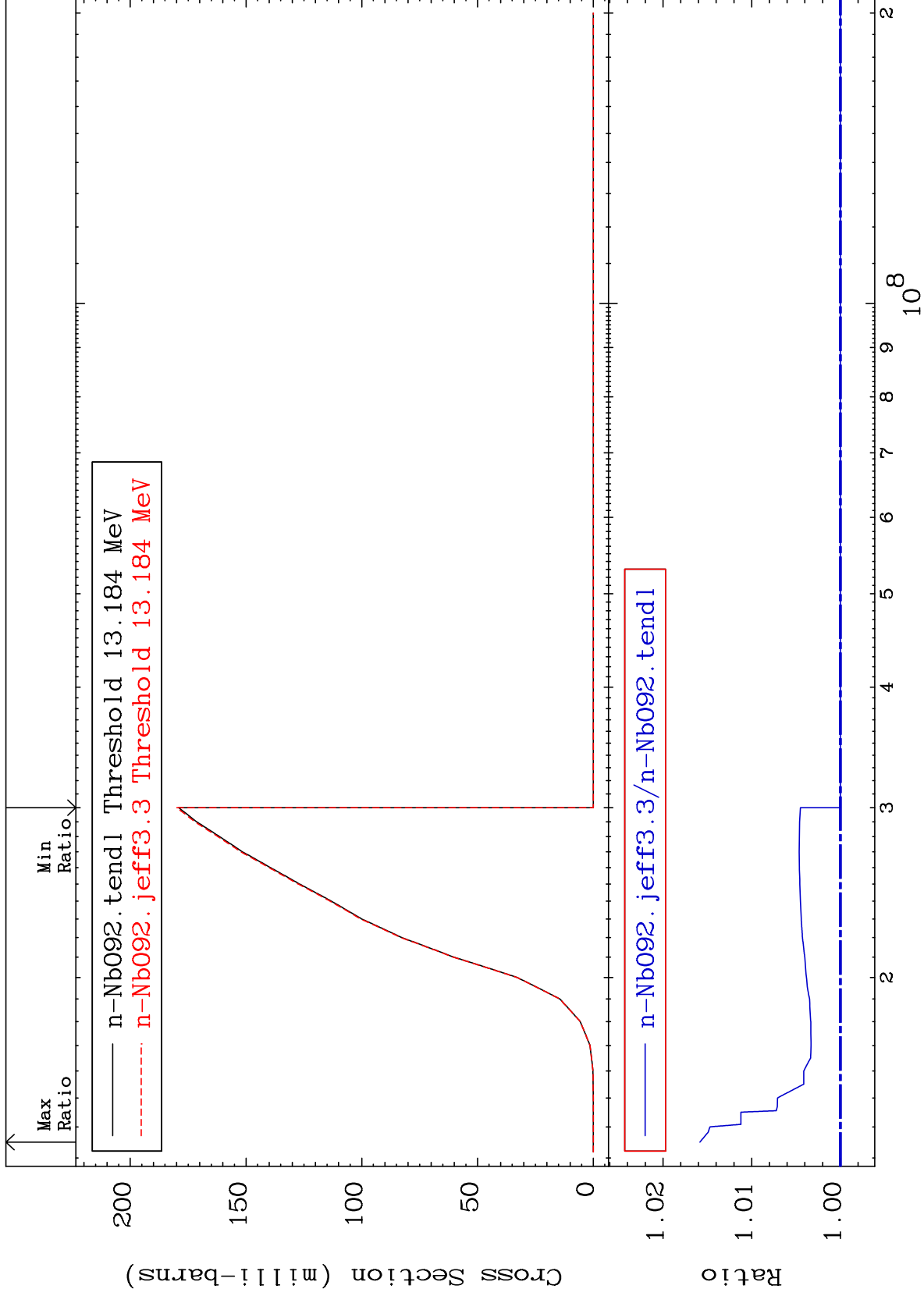
41-Nb-92  
To 1.014 %  
0.000



MAT 4122

(n,2n) p  
Cross Section

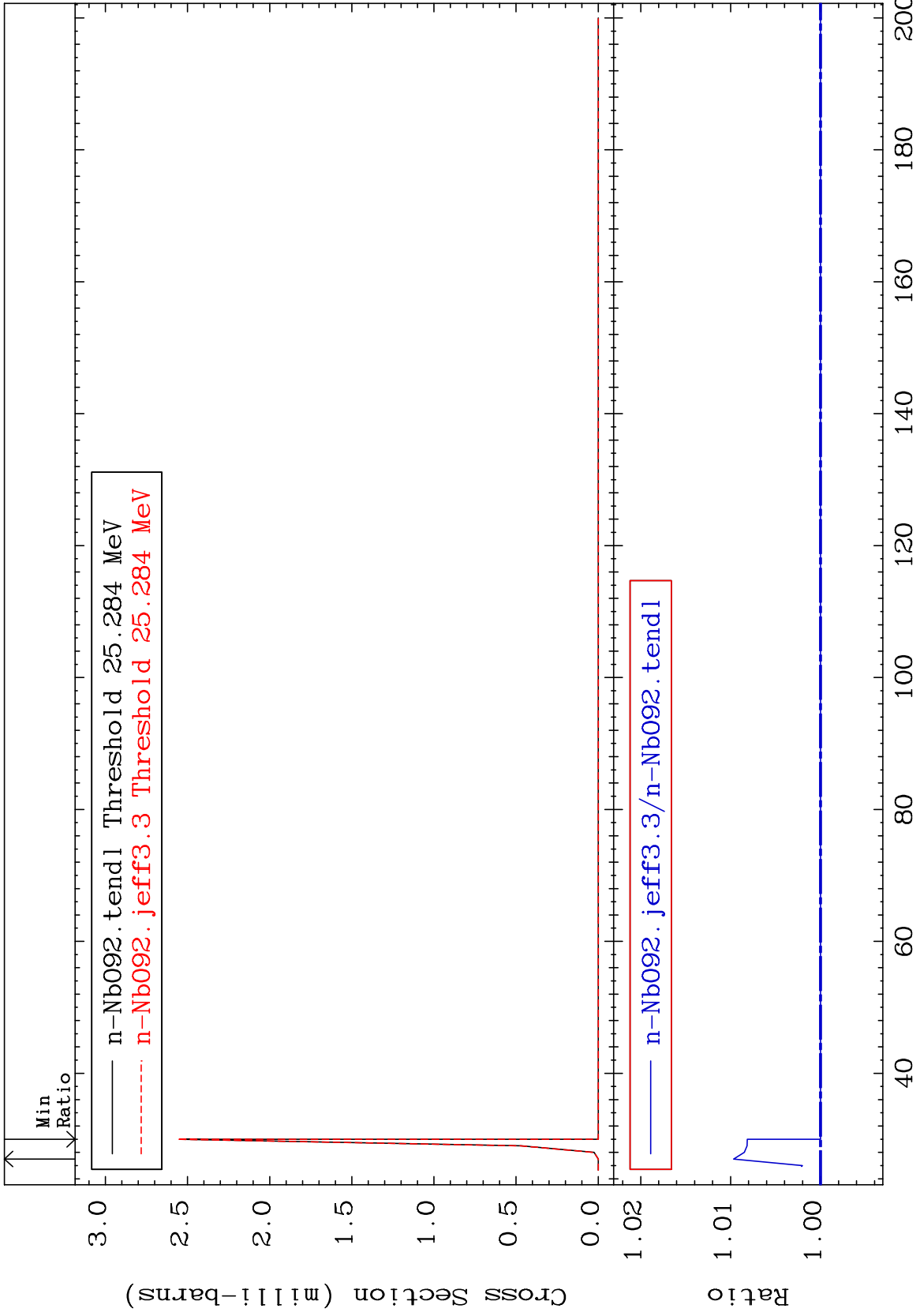
41-Nb-92  
0.000 To 1.583 %



MAT 4122

(n,3n) p  
Cross Section

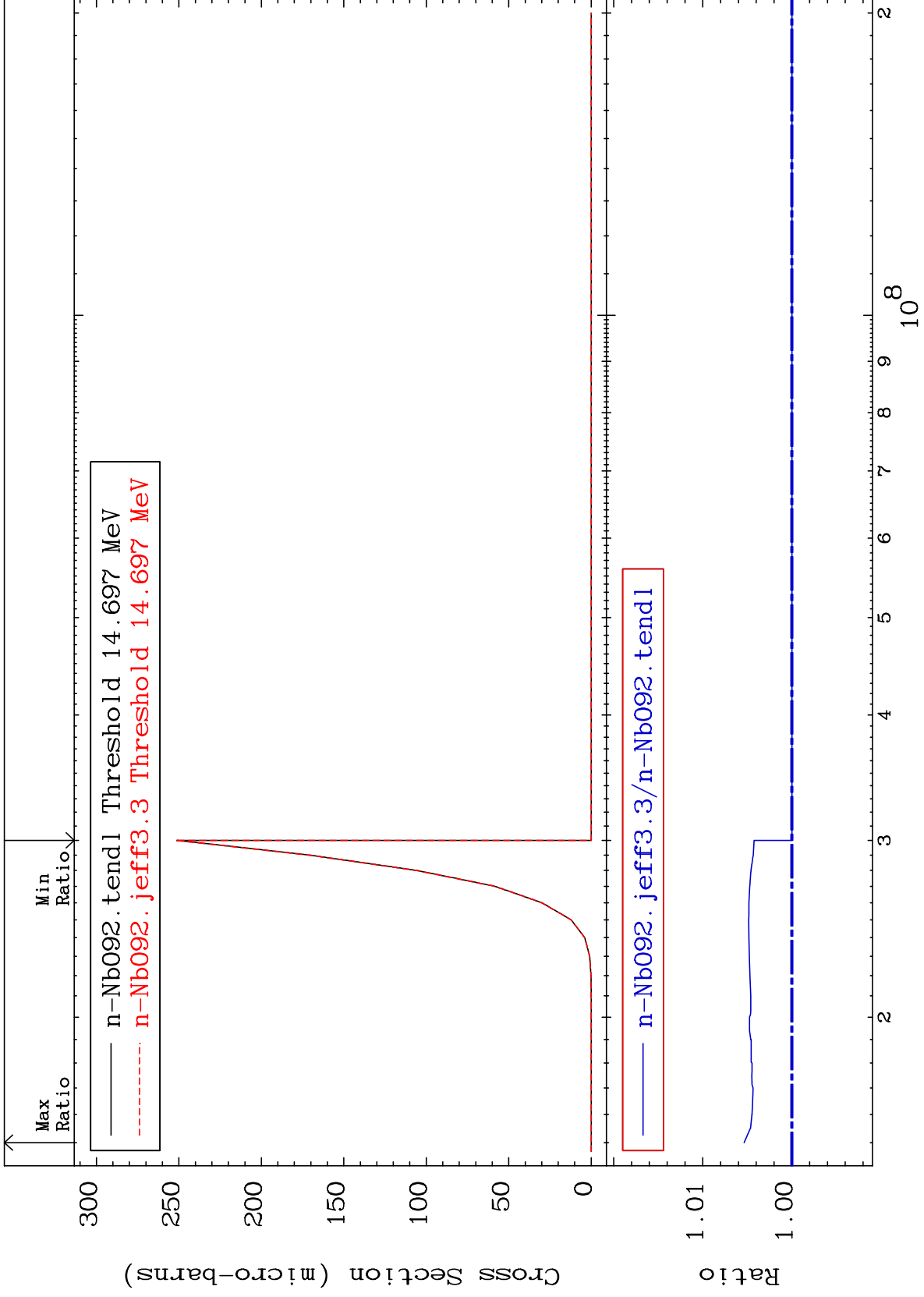
41-Nb-92  
0.000 To 0.967 %



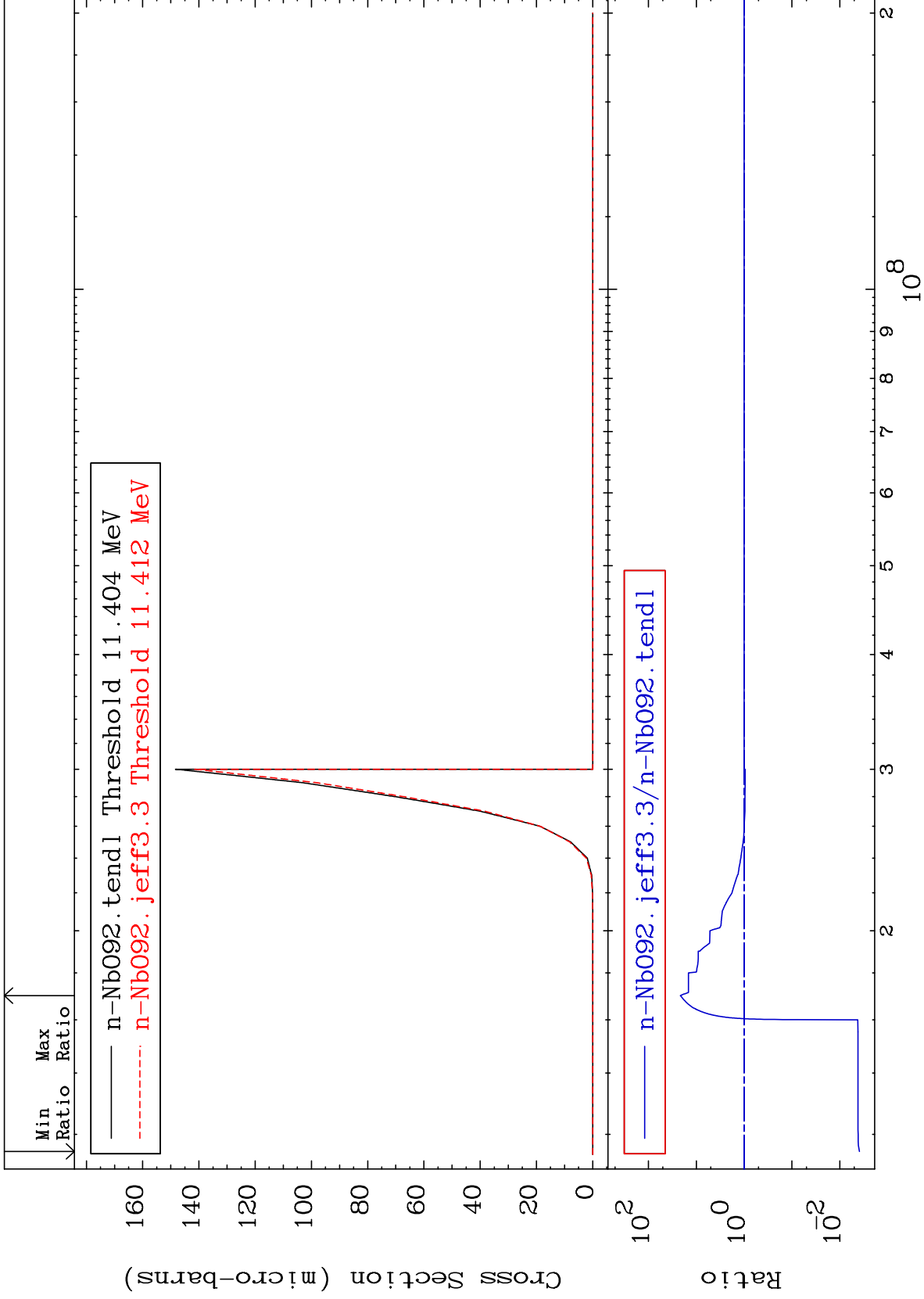
MAT 4122

(n,2n) p  
Cross Section

41-Nb-92  
0.000 To 0.537 %



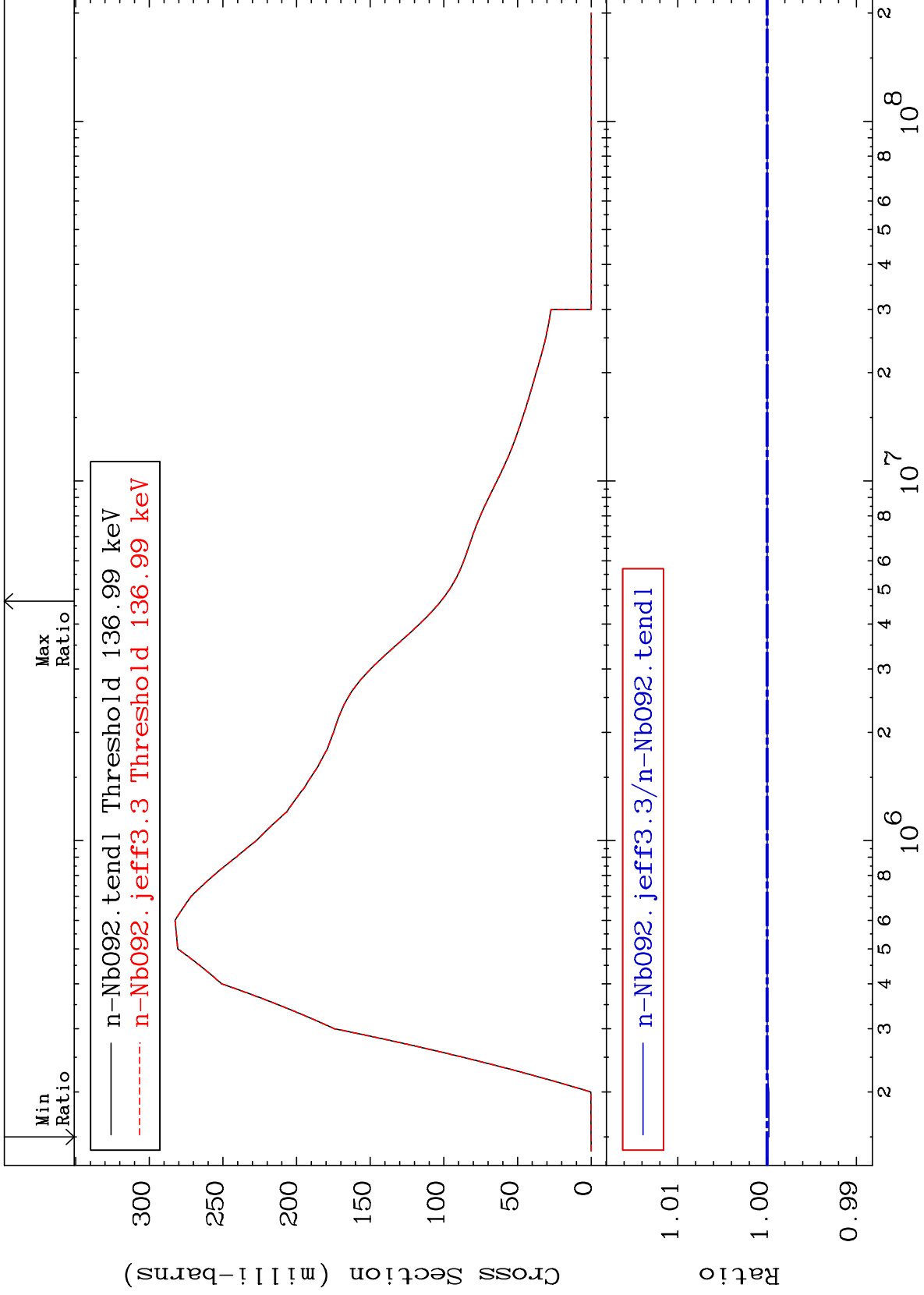




MAT 4122

MT= 51 (n,n') Level  
Cross Section

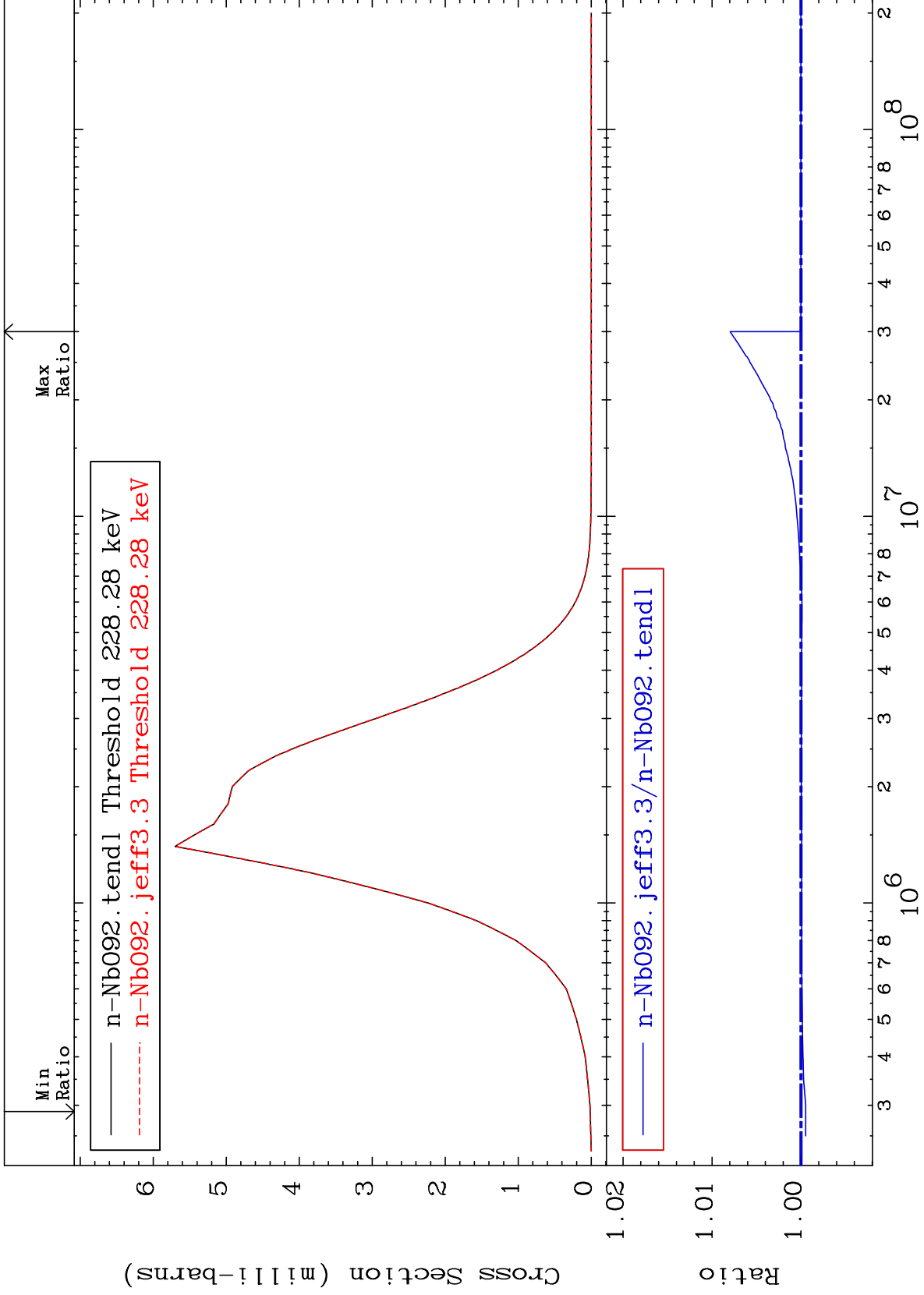
41-Nb-92  
-0.019 To 0.000 %



MAT 4122

MT= 52 (n,n') Level  
Cross Section

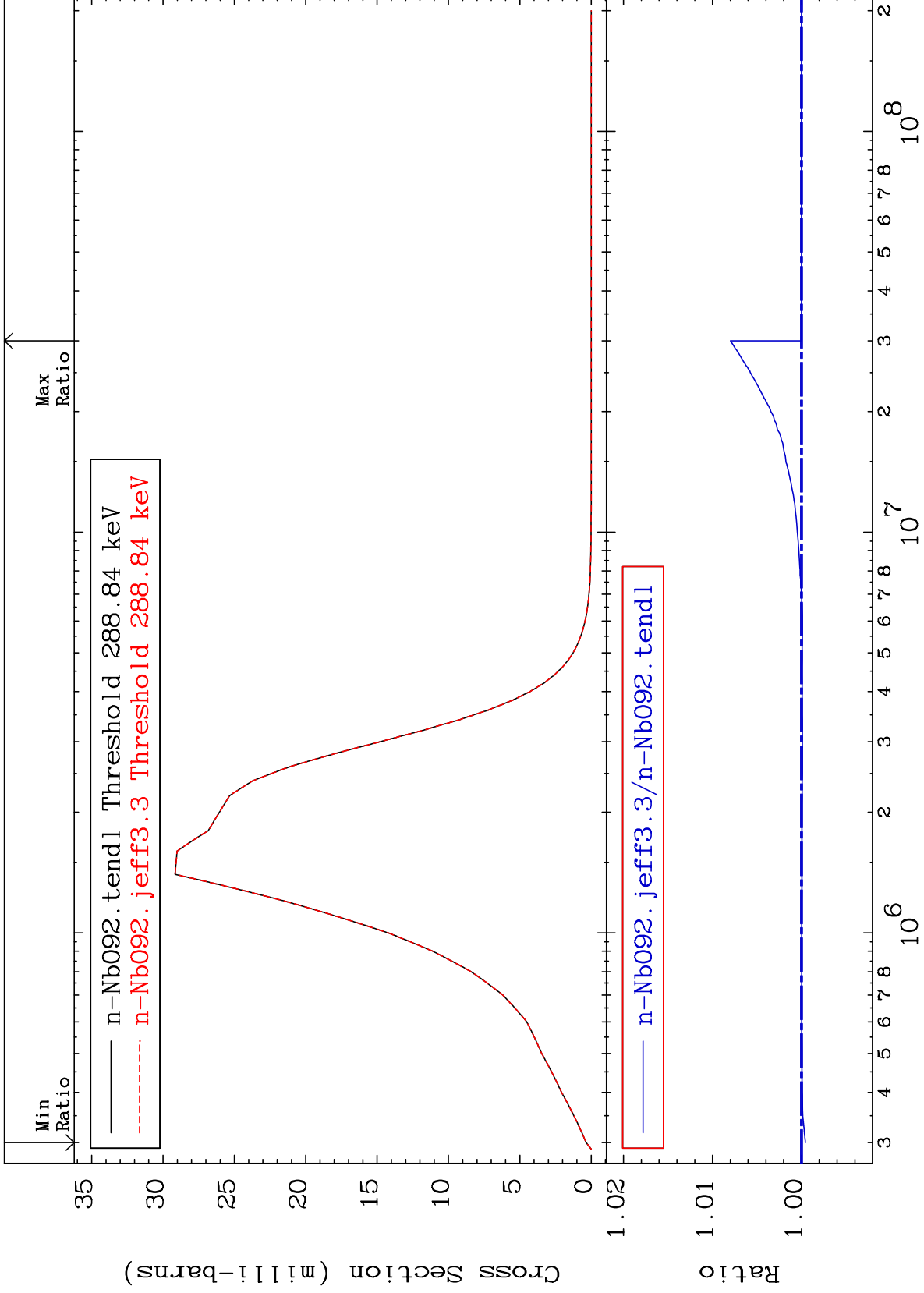
41-Nb-92  
-0.053 To 0.795 %



MAT 4122

MT= 53 (n,n') Level  
Cross Section

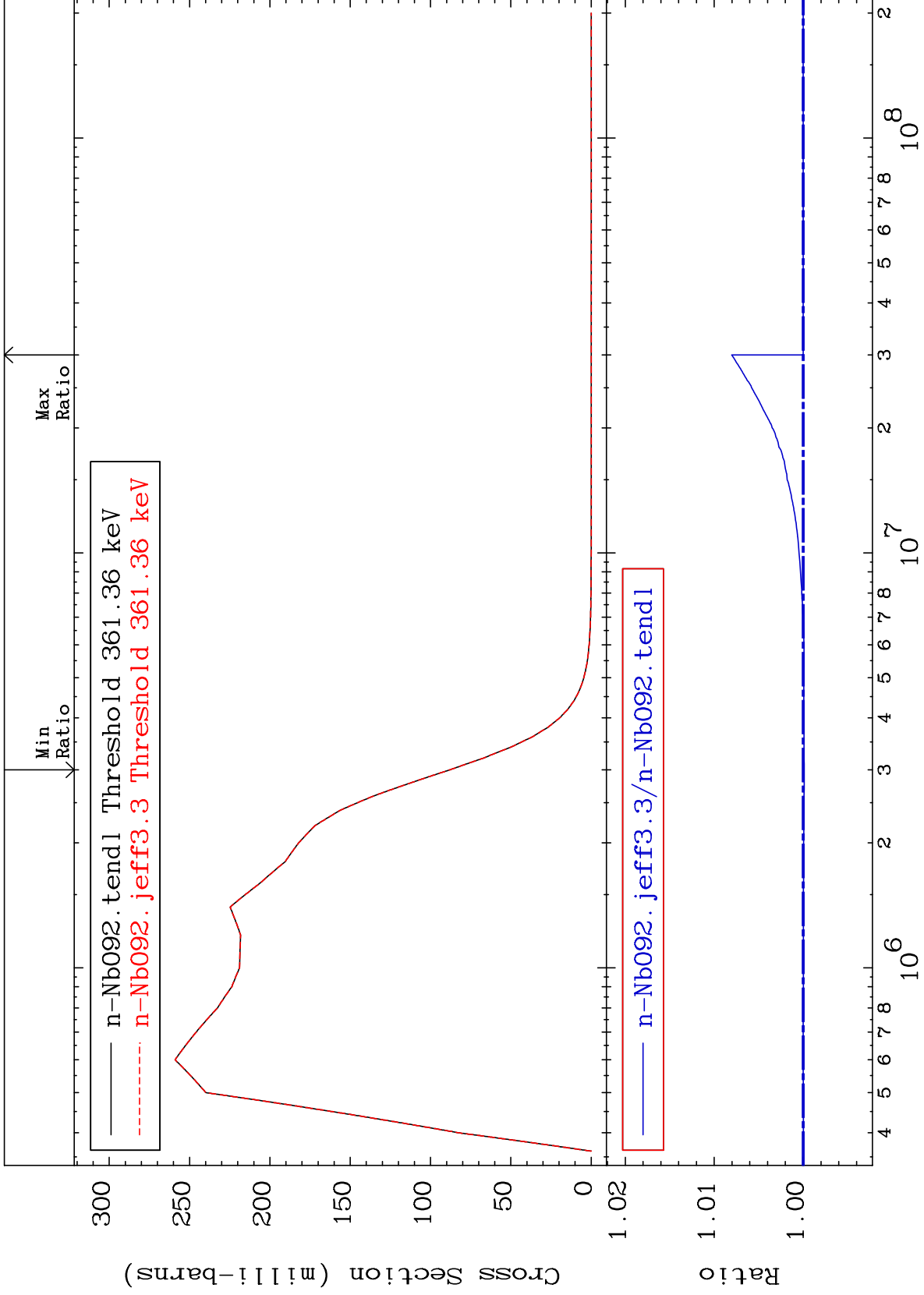
41-Nb-92  
-0.044 To 0.798 %



MAT 4122

MT= 54 (n,n') Level  
Cross Section

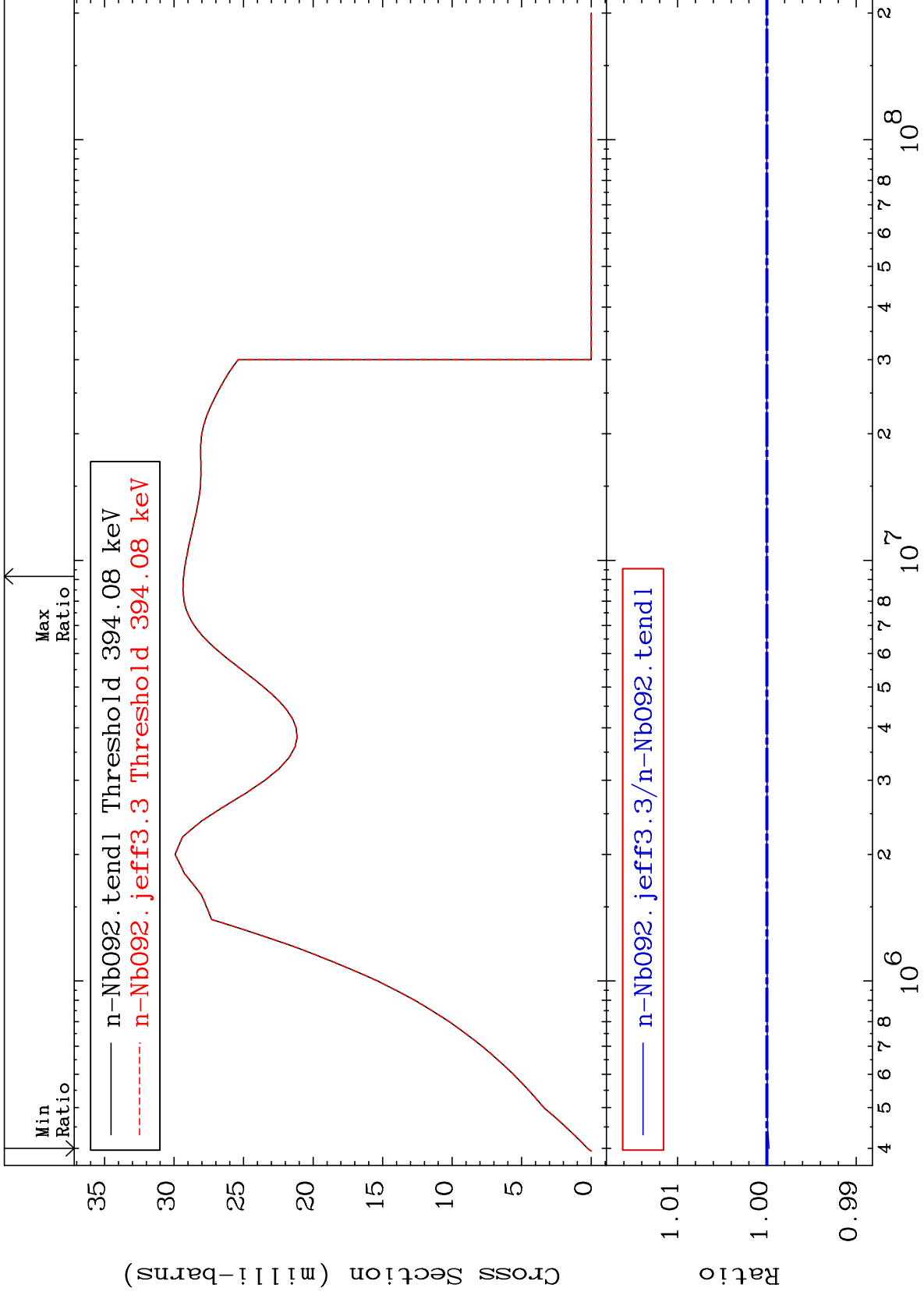
41-Nb-92  
-0.011 To 0.803 %

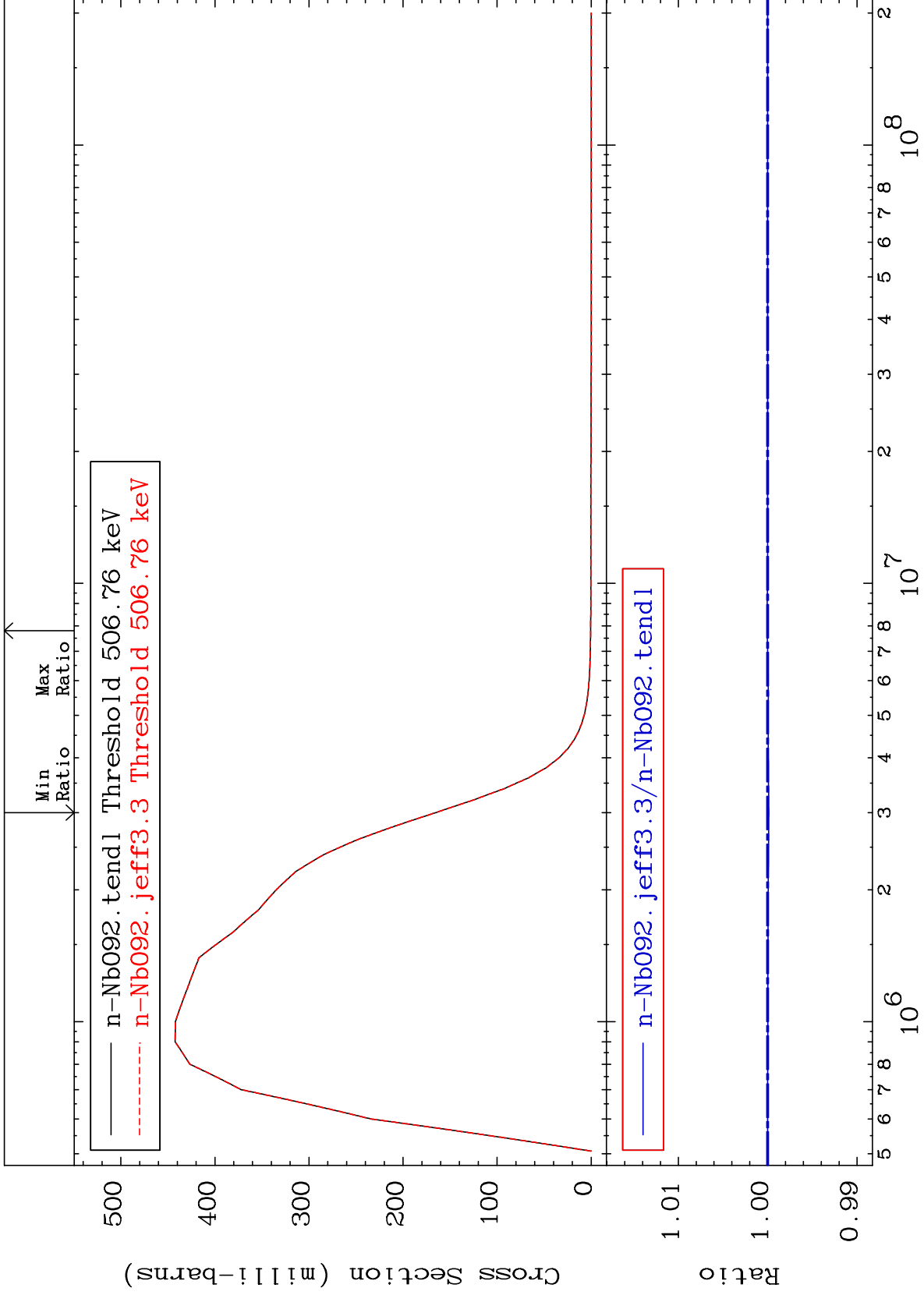


MAT 4122

MT= 55 (n,n') Level  
Cross Section

41-Nb-92  
-0.025 To 0.000 %

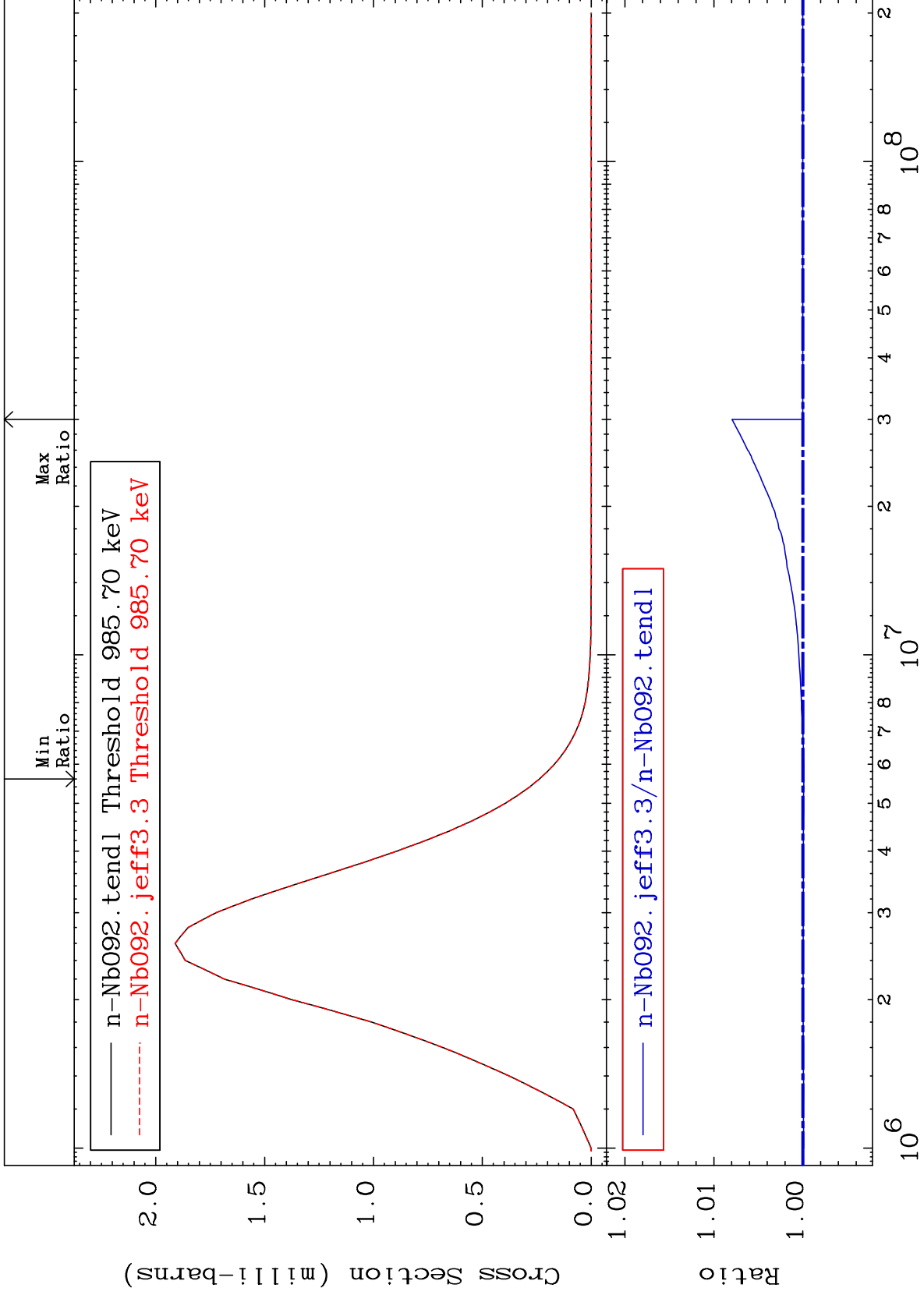




MAT 4122

MT= 58 (n,n') Level  
Cross Section

41-Nb-92  
-0.011 To 0.795 %



24

Incident Energy (eV)

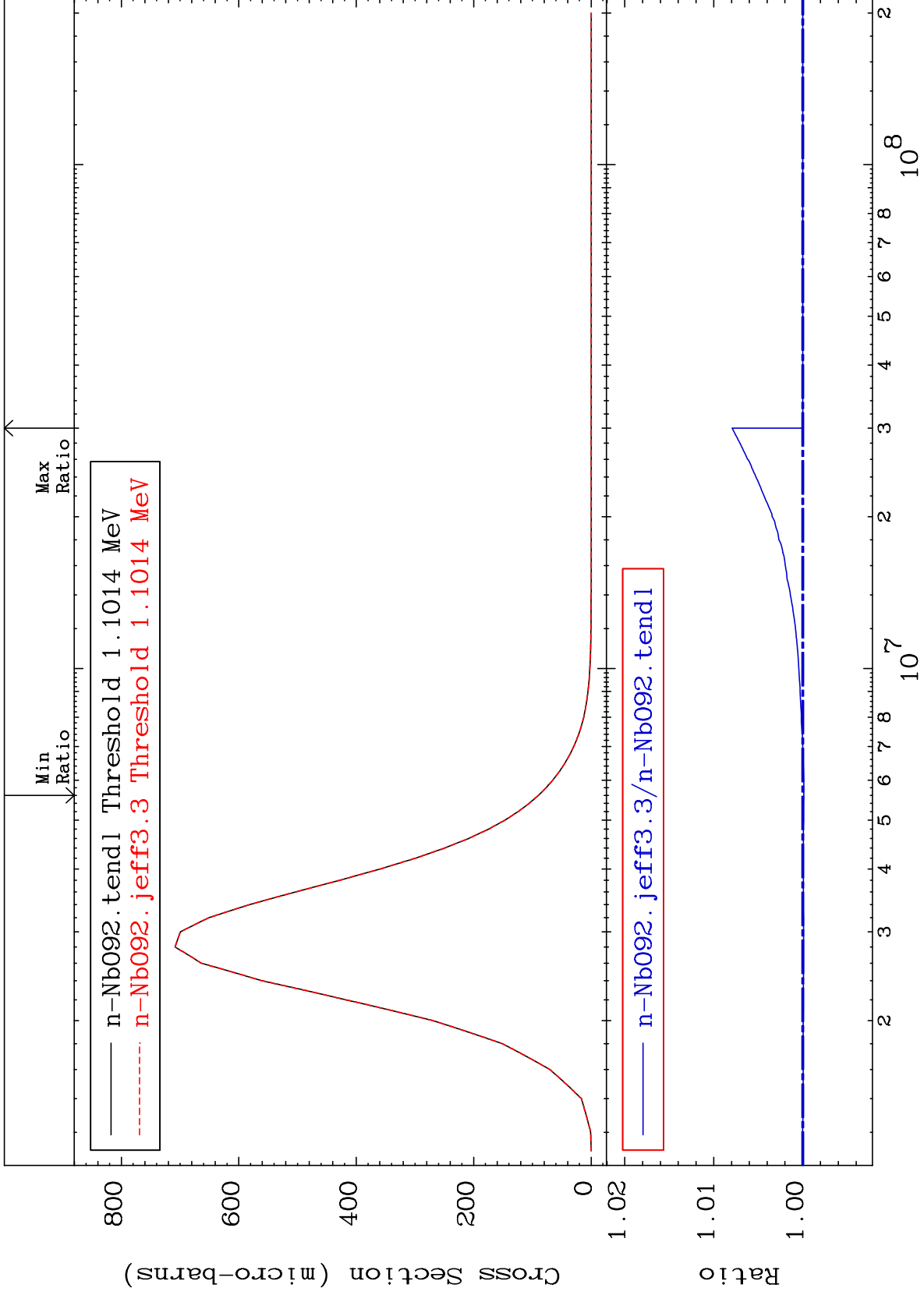
41-Nb-92



MAT 4122

MT= 59 (n,n') Level  
Cross Section

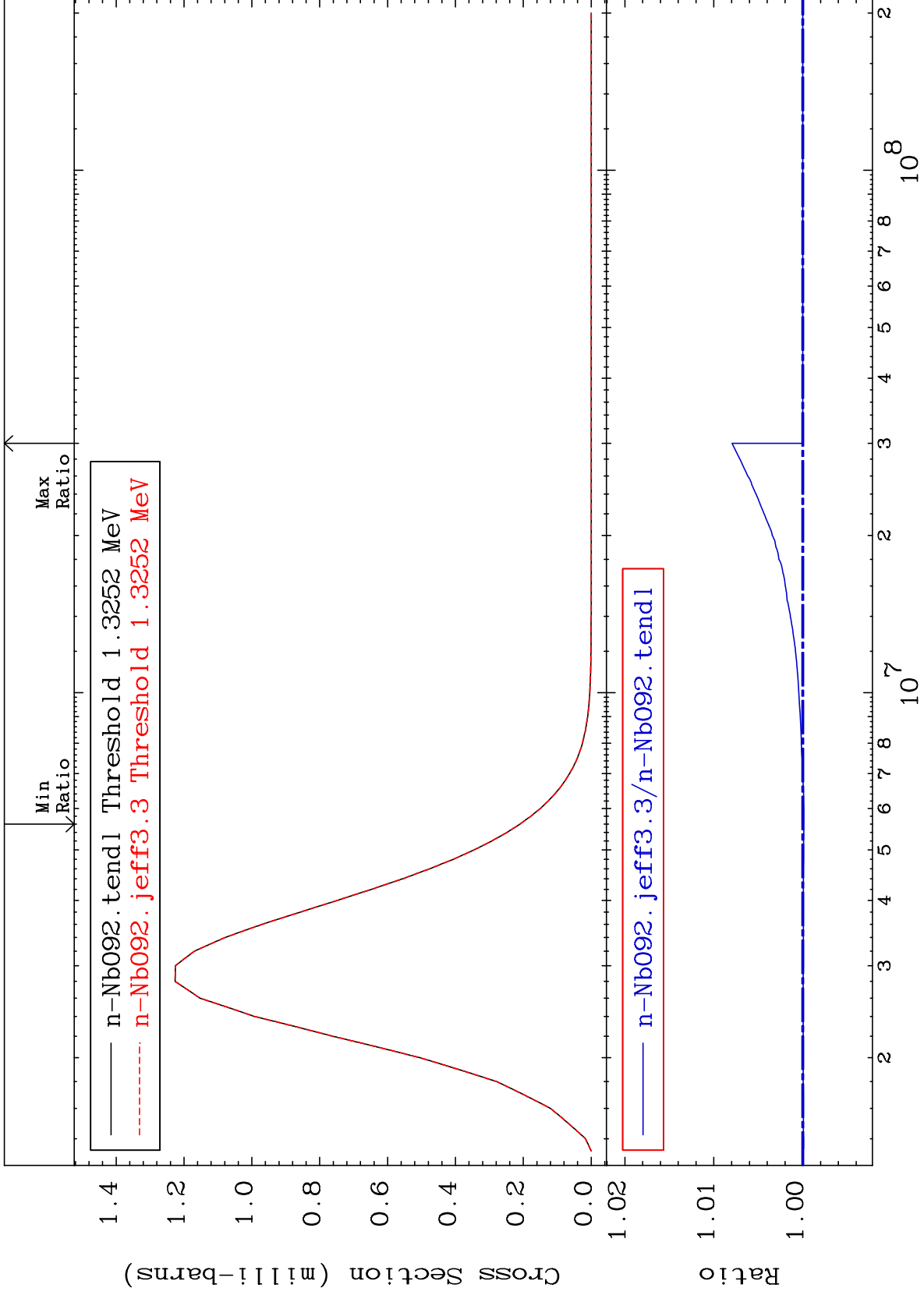
41-Nb-92  
-0.011 To 0.794 %



MAT 4122

MT= 61 (n,n') Level  
Cross Section

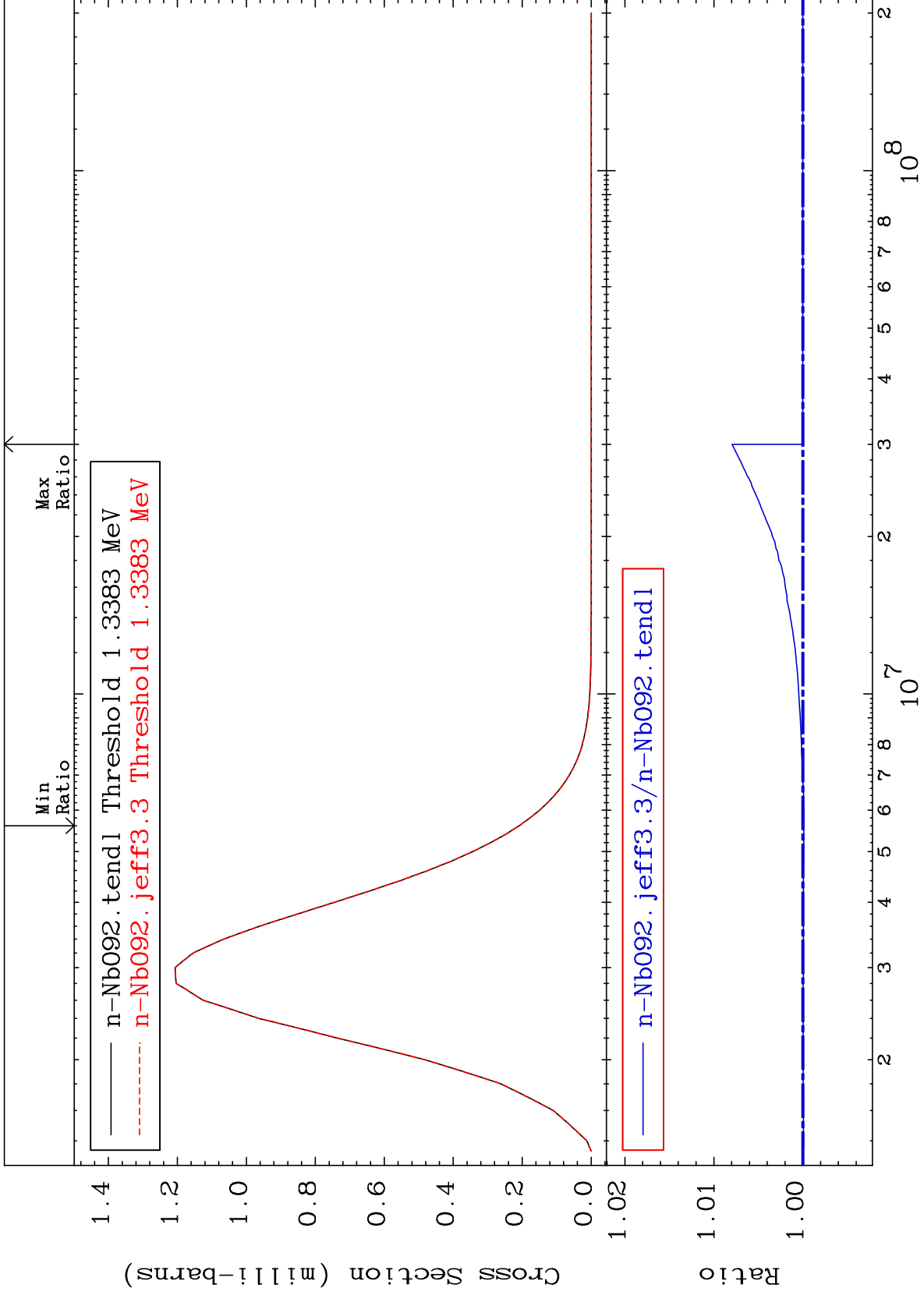
41-Nb-92  
-0.011 To 0.795 %



MAT 4122

MT= 62 (n, n') Level  
Cross Section

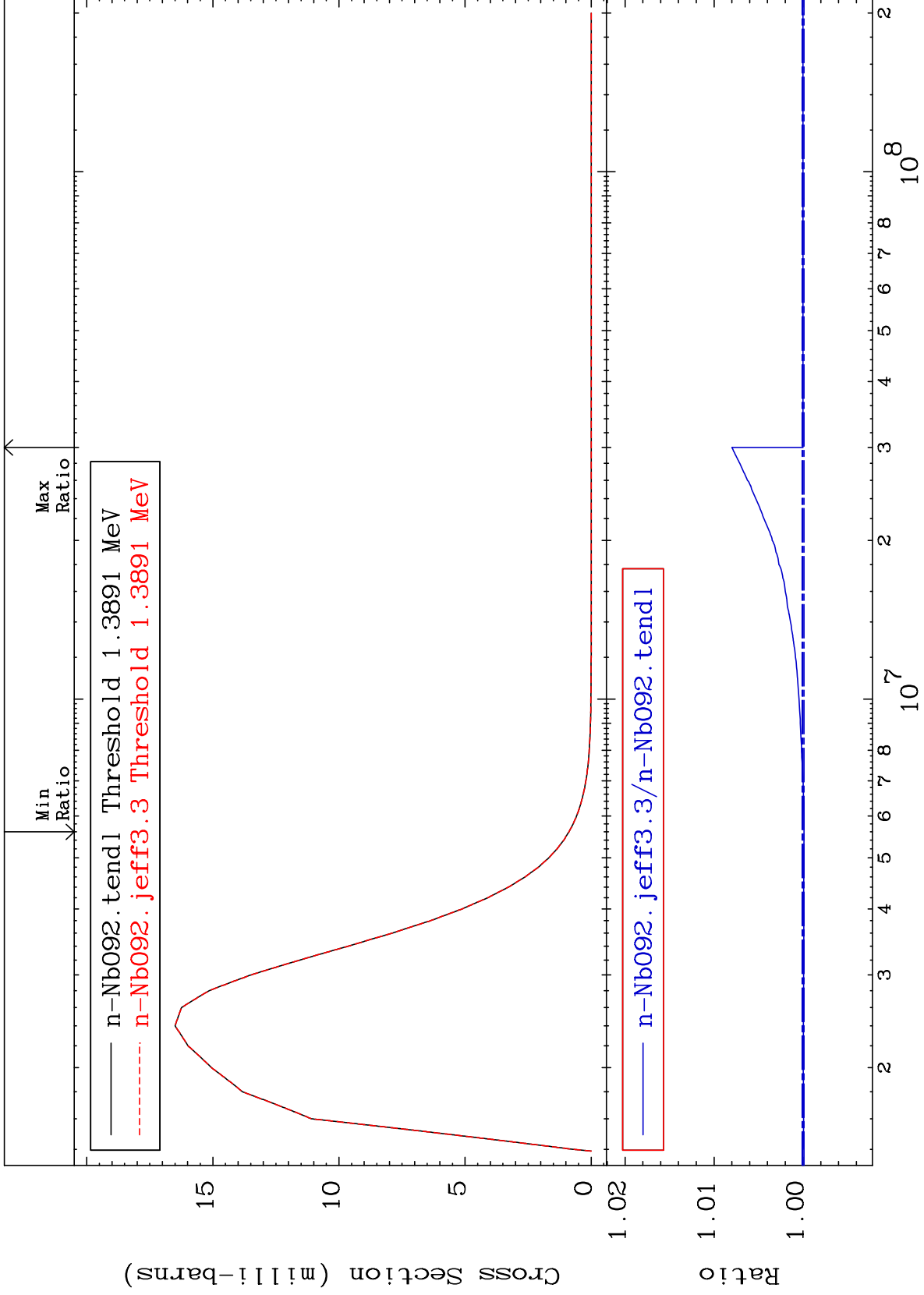
41-Nb-92  
-0.011 To 0.795 %



MAT 4122

MT= 64 (n,n') Level  
Cross Section

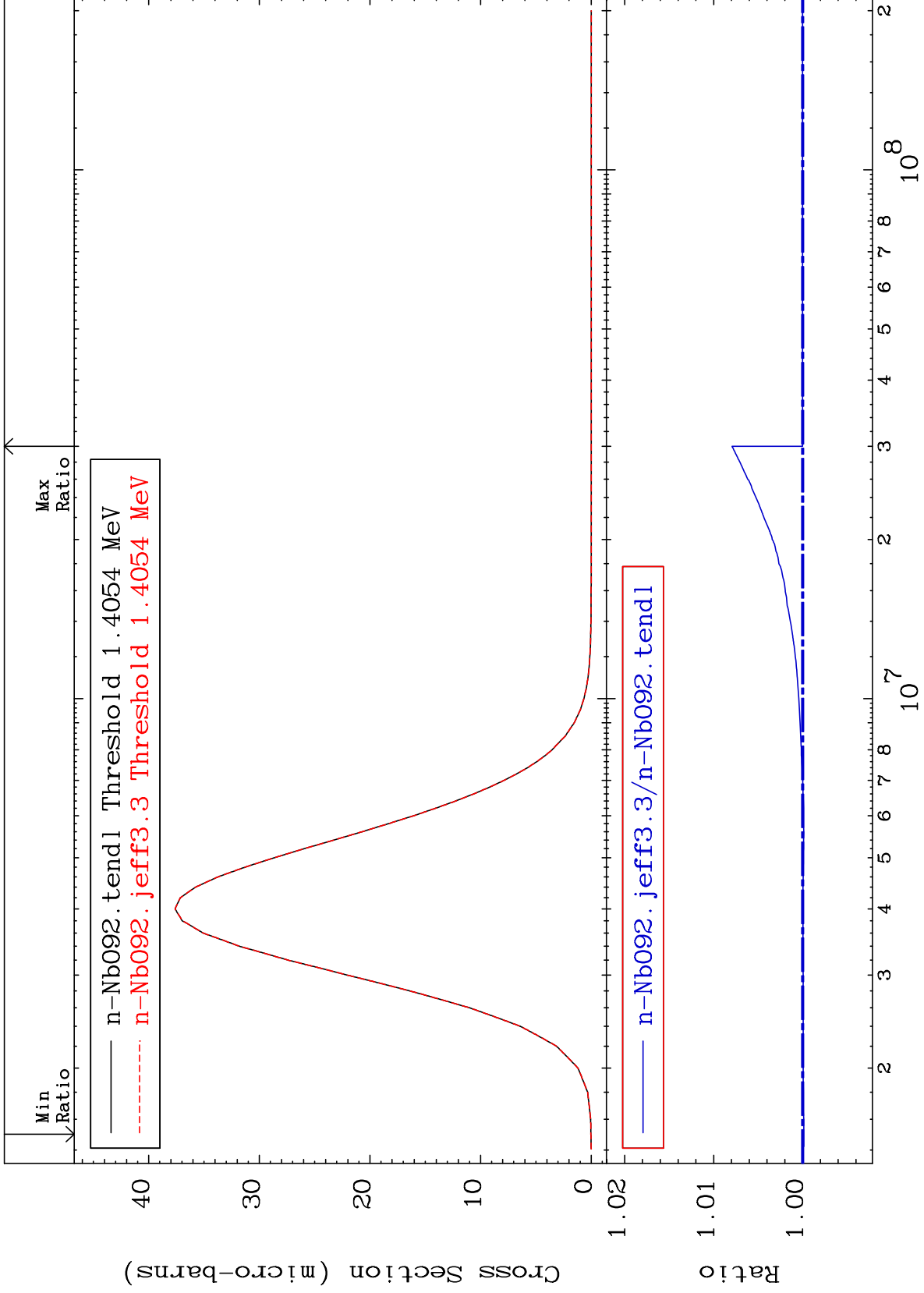
41-Nb-92  
-0.011 To 0.799 %



MAT 4122

MT= 65 (n,n') Level  
Cross Section

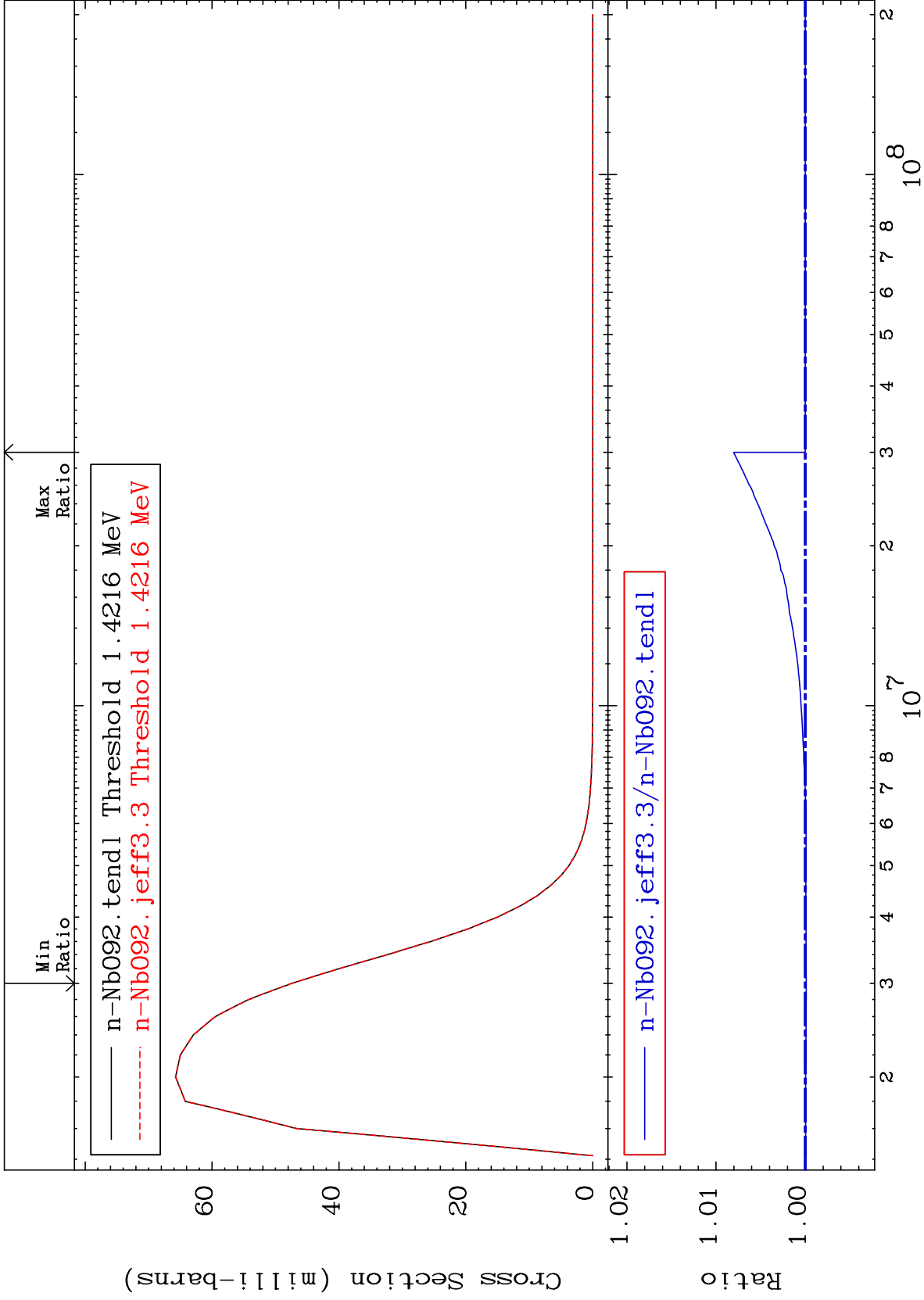
41-Nb-92  
-0.014 To 0.793 %



MAT 4122

MT= 66 (n,n') Level  
Cross Section

41-Nb-92  
-0.011 To 0.803 %



30

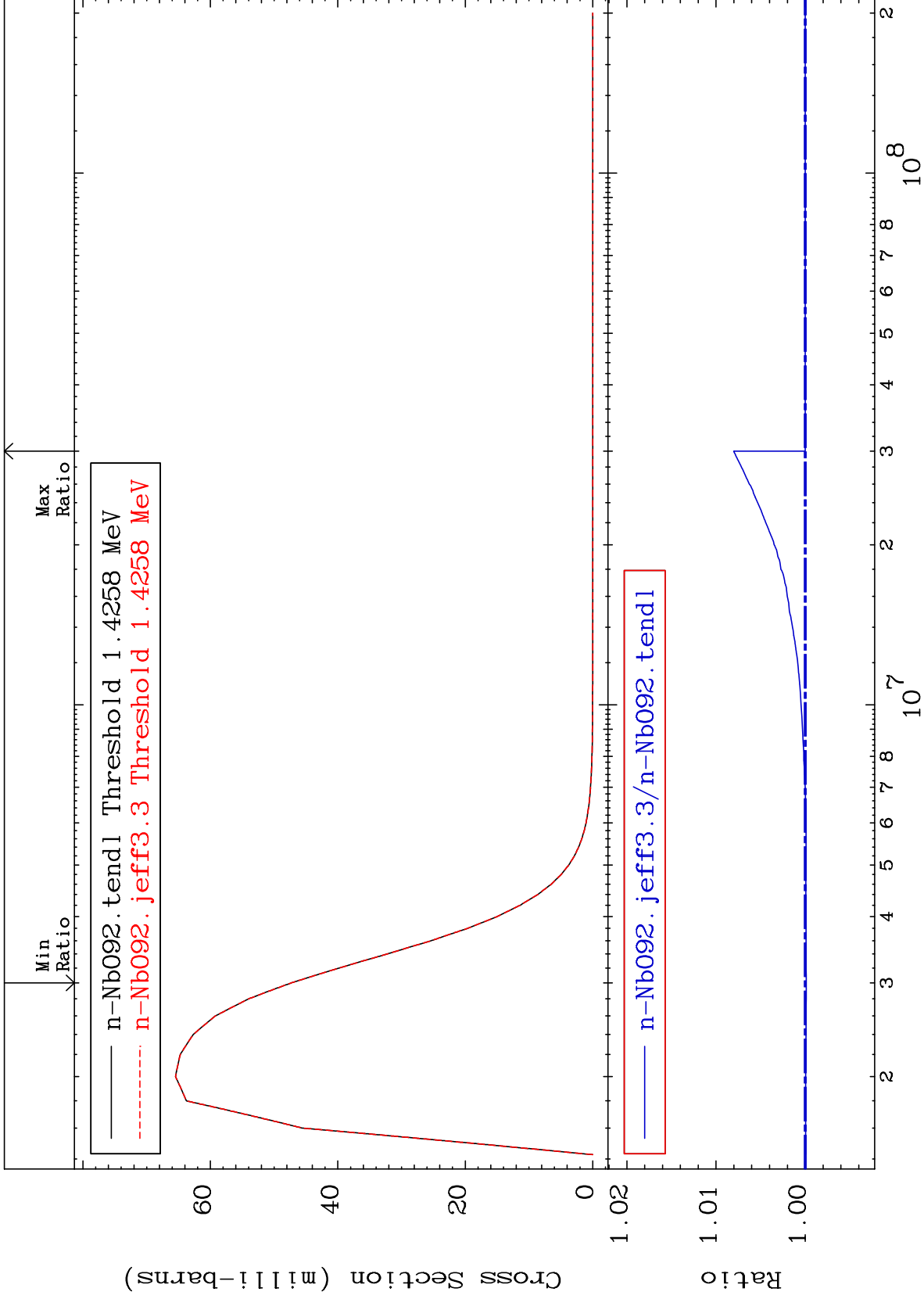
Incident Energy (eV)

41-Nb-92

MAT 4122

MT= 67 (n, n') Level  
Cross Section

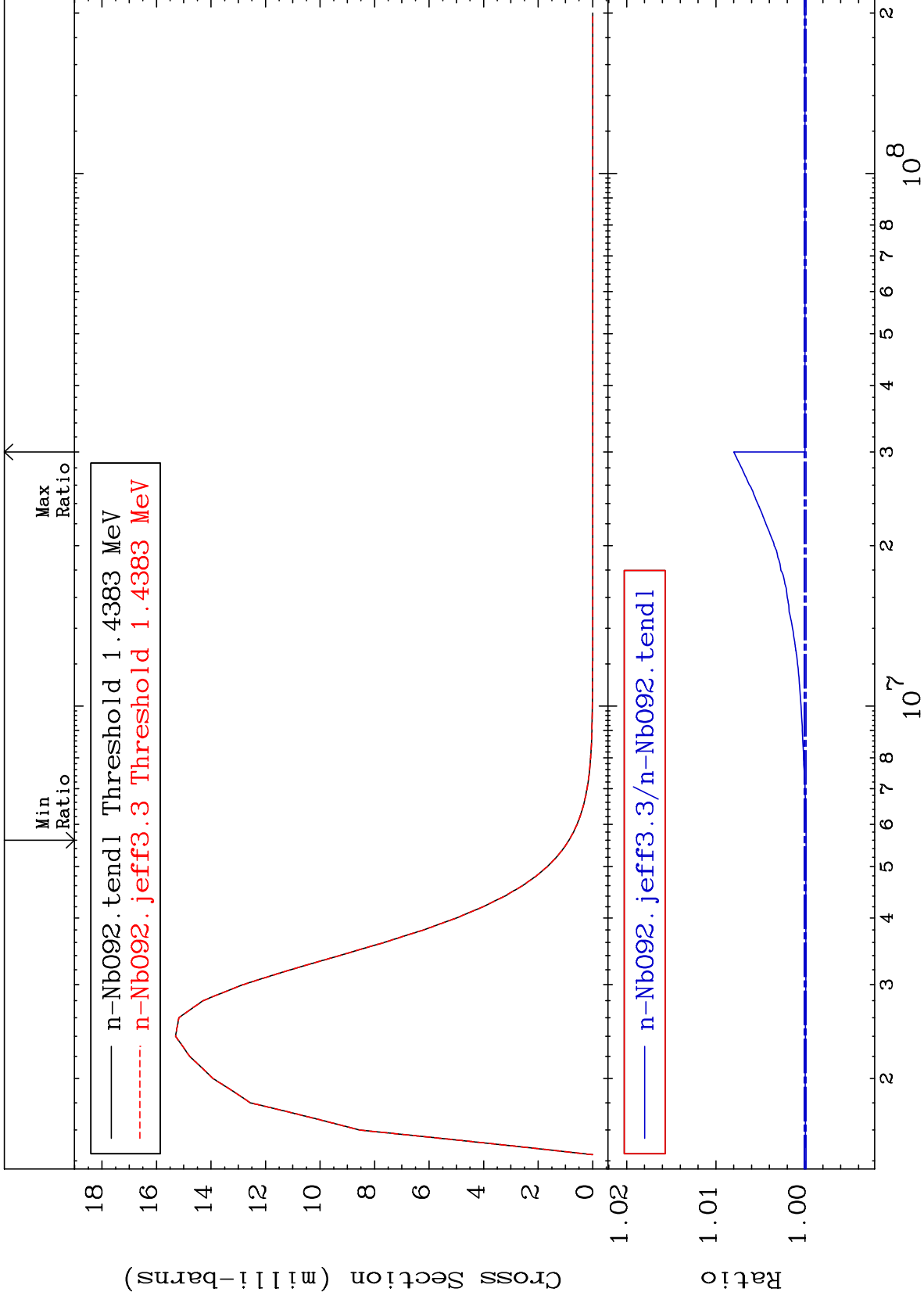
41-Nb-92  
-0.011 To 0.803 %



MAT 4122

MT= 69 (n,n') Level  
Cross Section

41-Nb-92  
-0.011 To 0.800 %

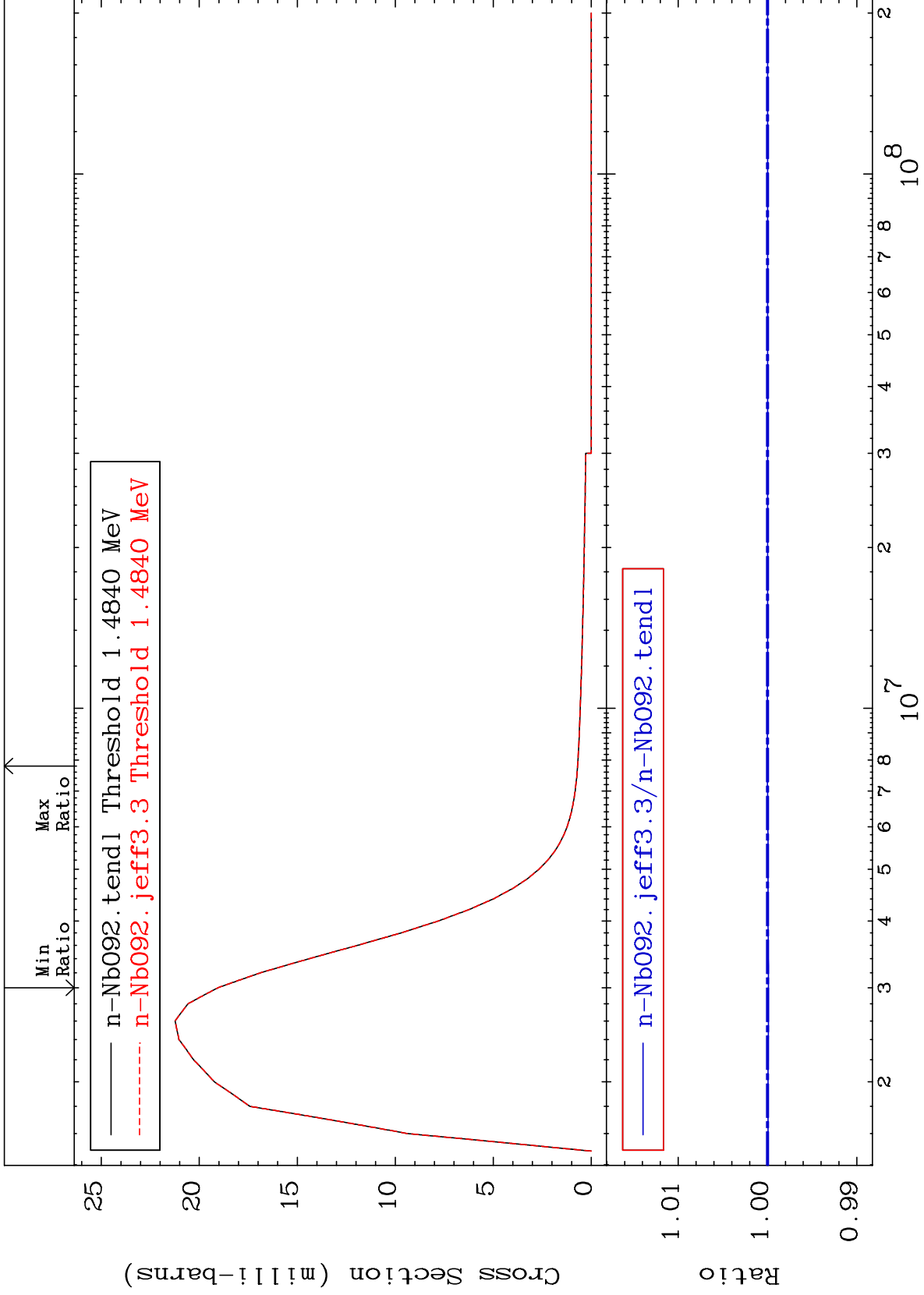




MAT 4122

MT= 70 (n,n') Level  
Cross Section

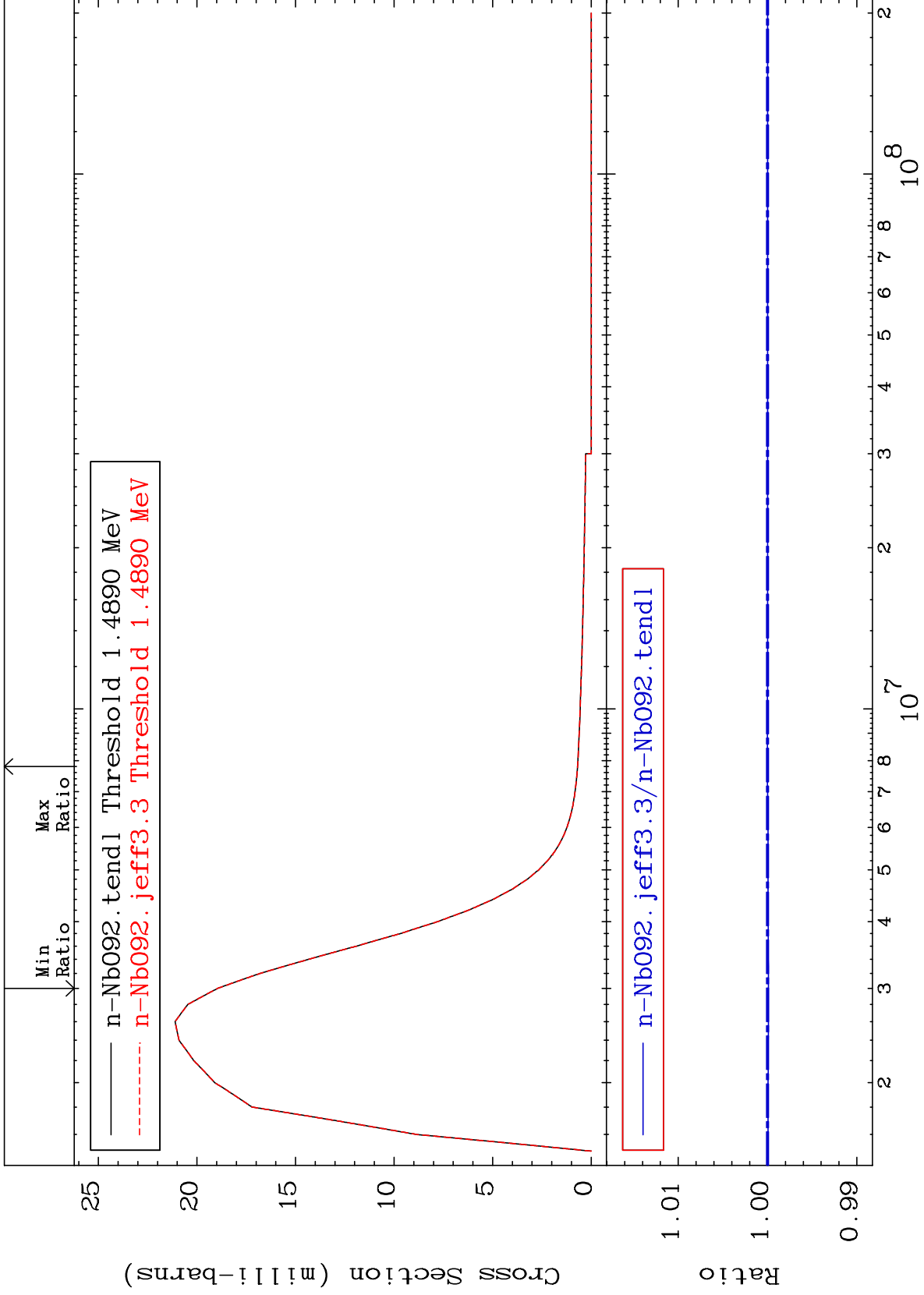
41-Nb-92  
-0.011 To 0.002 %



MAT 4122

MT= 71 (n,n') Level  
Cross Section

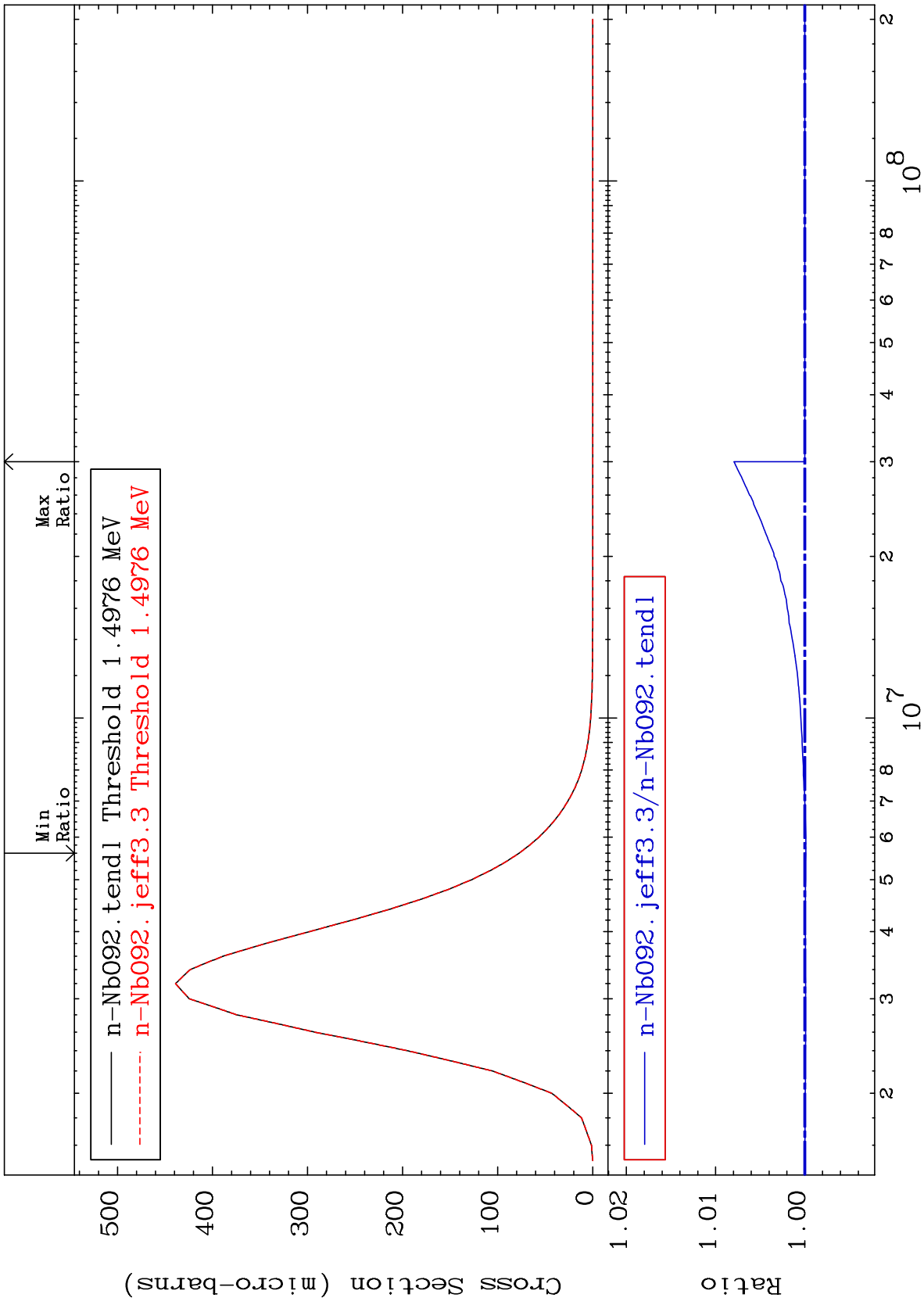
41-Nb-92  
-0.011 To 0.002 %



MAT 4122

MT= 72 (n,n') Level  
Cross Section

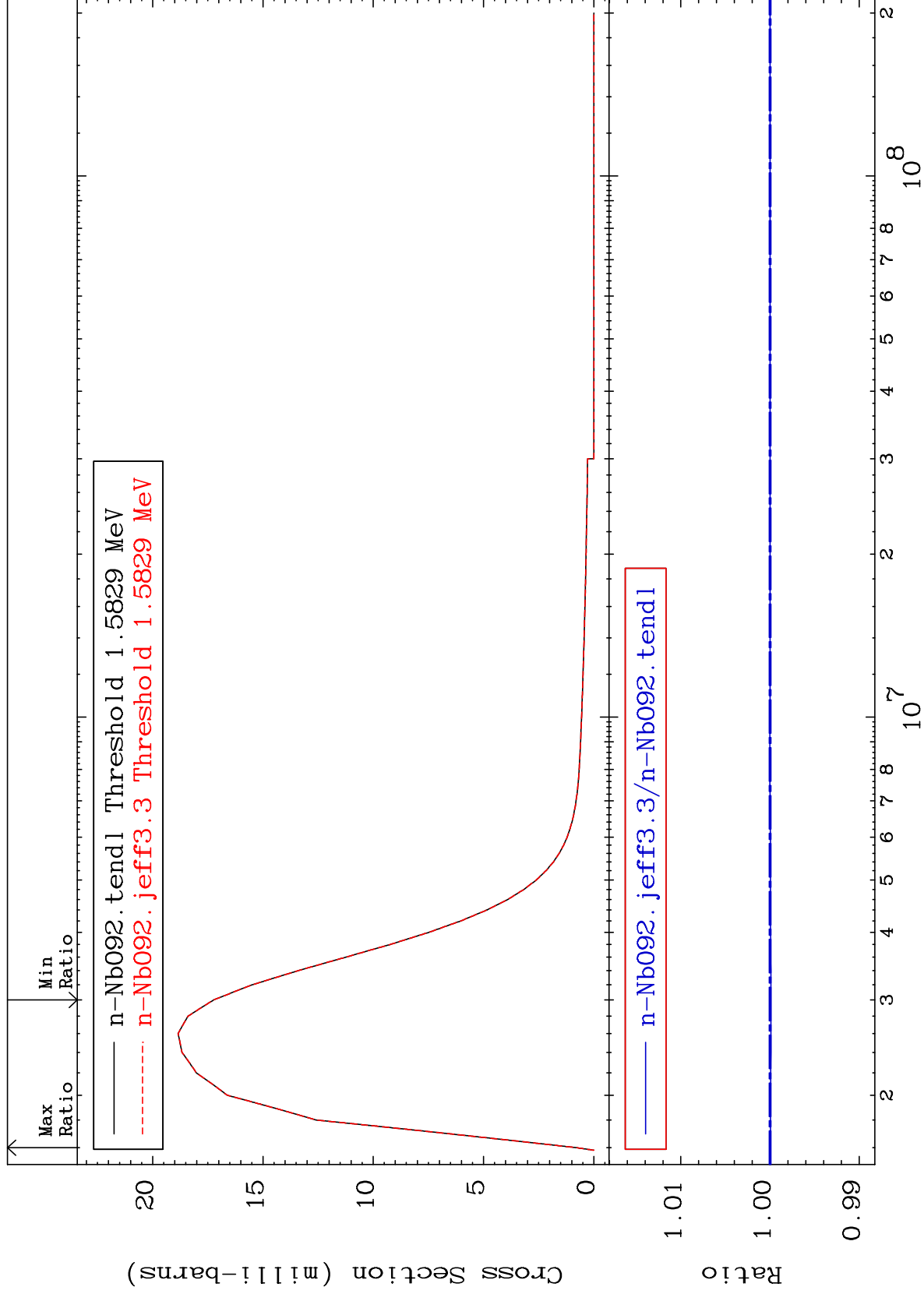
41-Nb-92  
-0.011 To 0.794 %



MAT 4122

MT= 75 (n,n') Level  
Cross Section

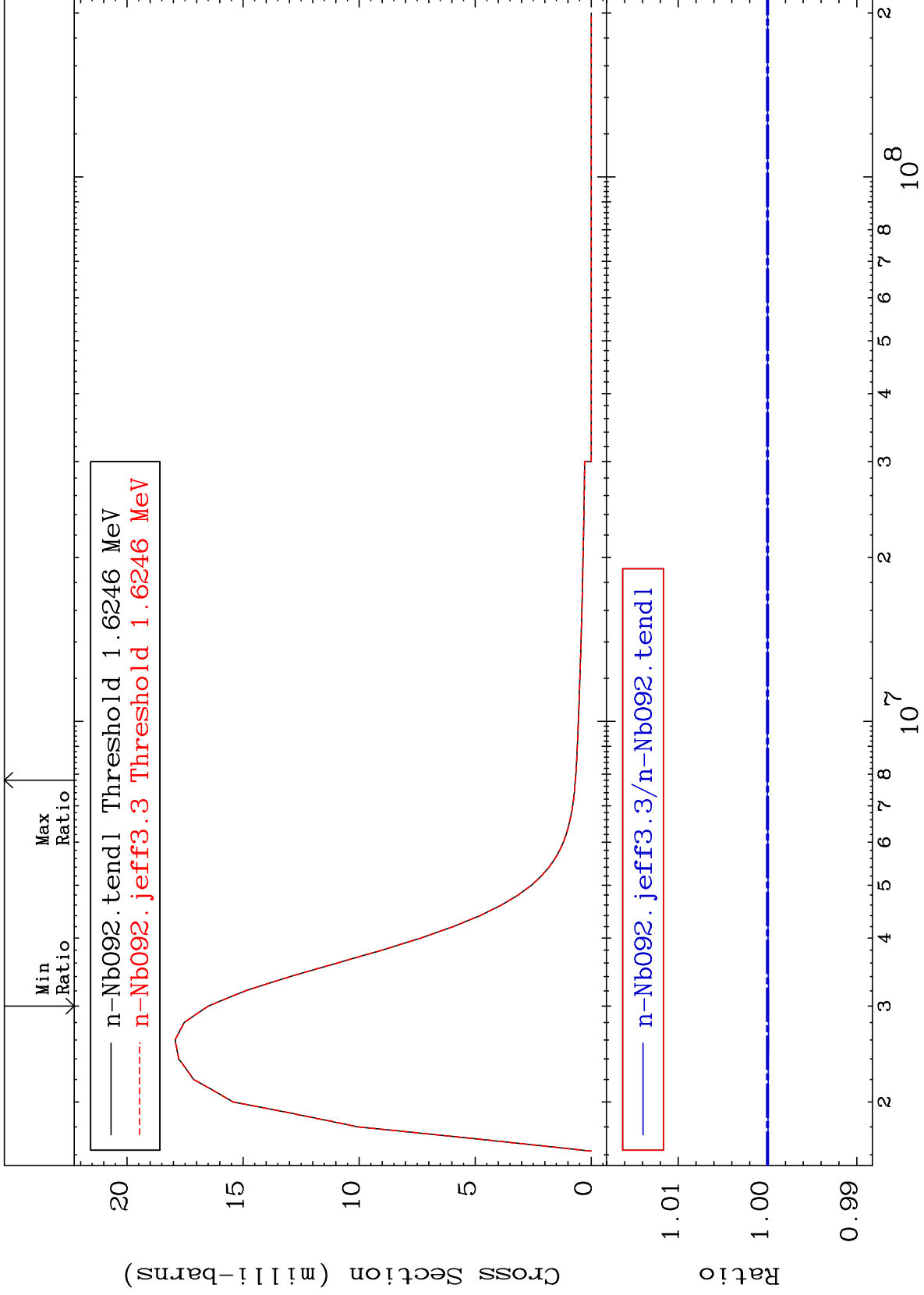
41-Nb-92  
-0.010 To 0.002 %



MAT 4122

MT= 76 (n,n') Level  
Cross Section

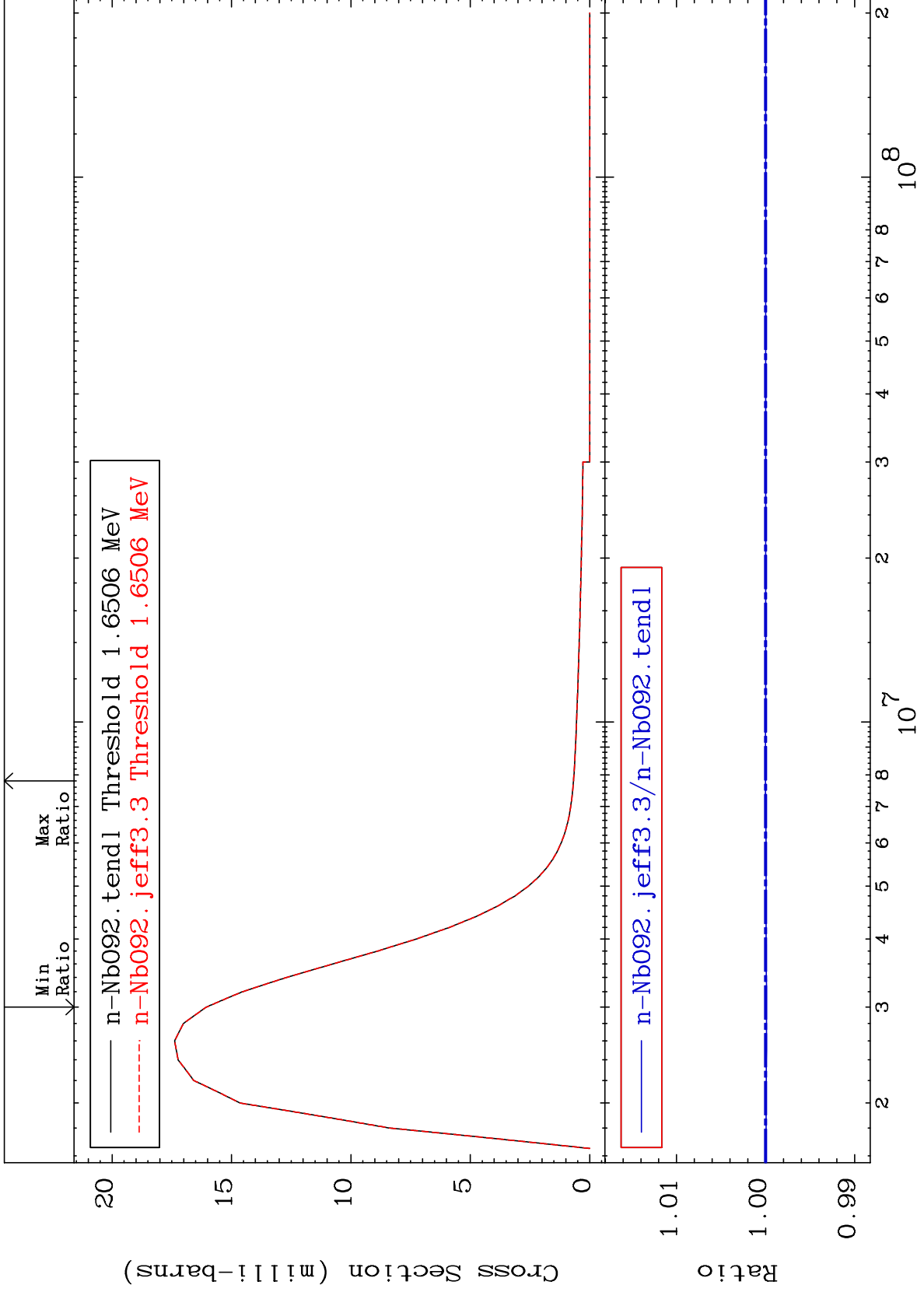
41-Nb-92  
-0.011 To 0.002 %



MAT 4122

MT= 77 (n,n') Level  
Cross Section

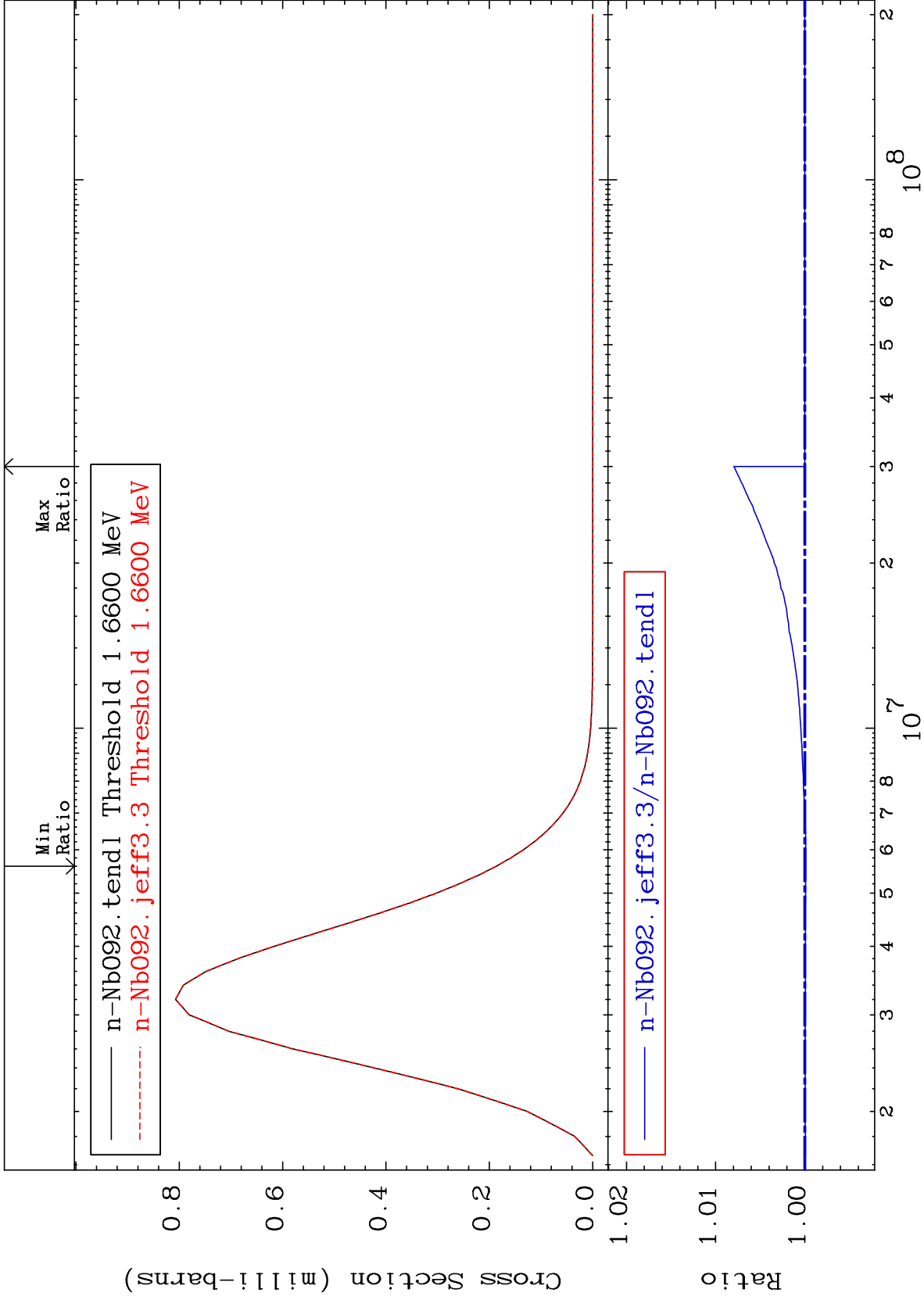
41-Nb-92  
-0.011 To 0.002 %



MAT 4122

MT= 78 (n,n') Level  
Cross Section

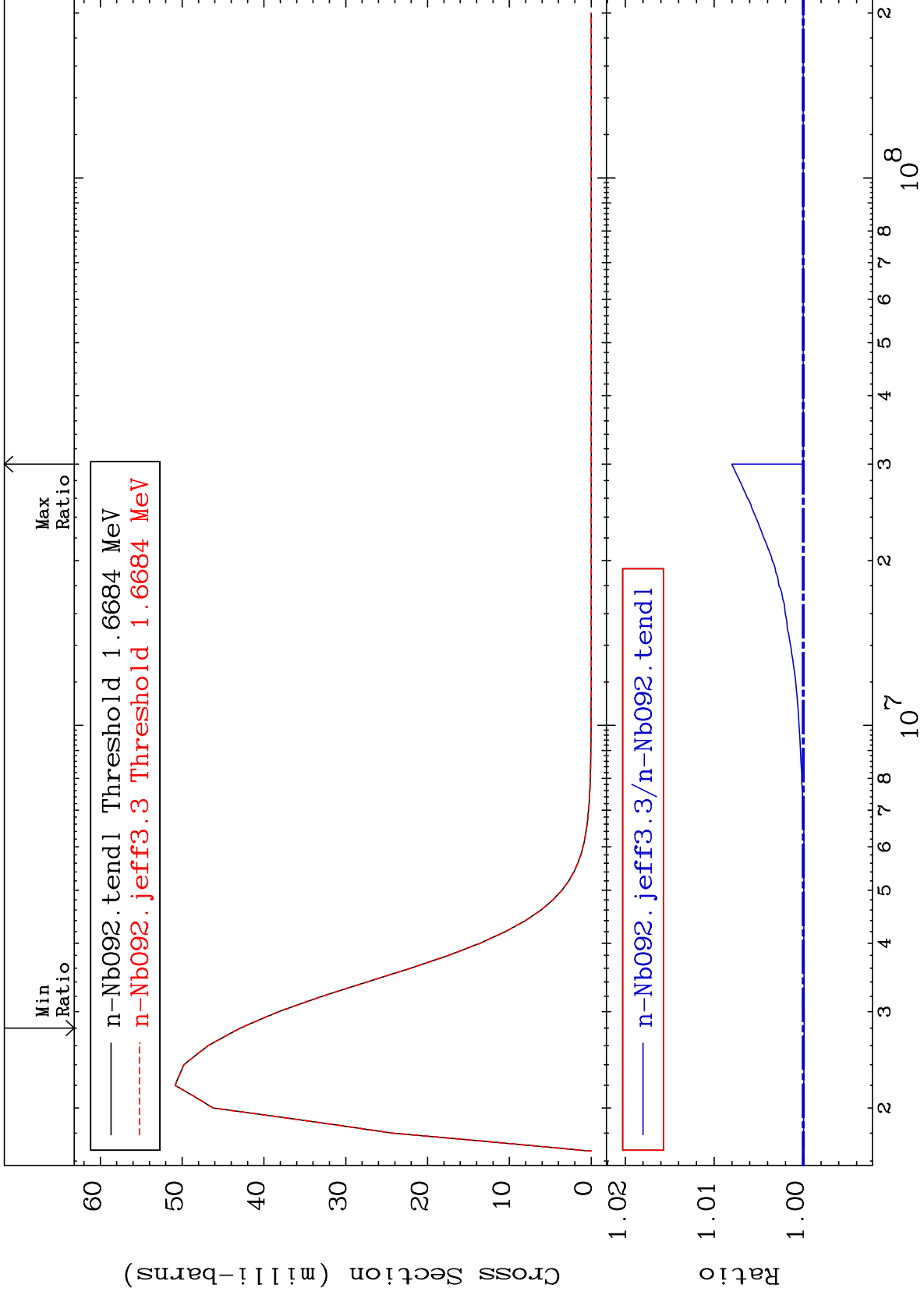
41-Nb-92  
-0.012 To 0.795 %



MAT 4122

MT= 79 (n,n') Level  
Cross Section

41-Nb-92  
-0.010 To 0.803 %

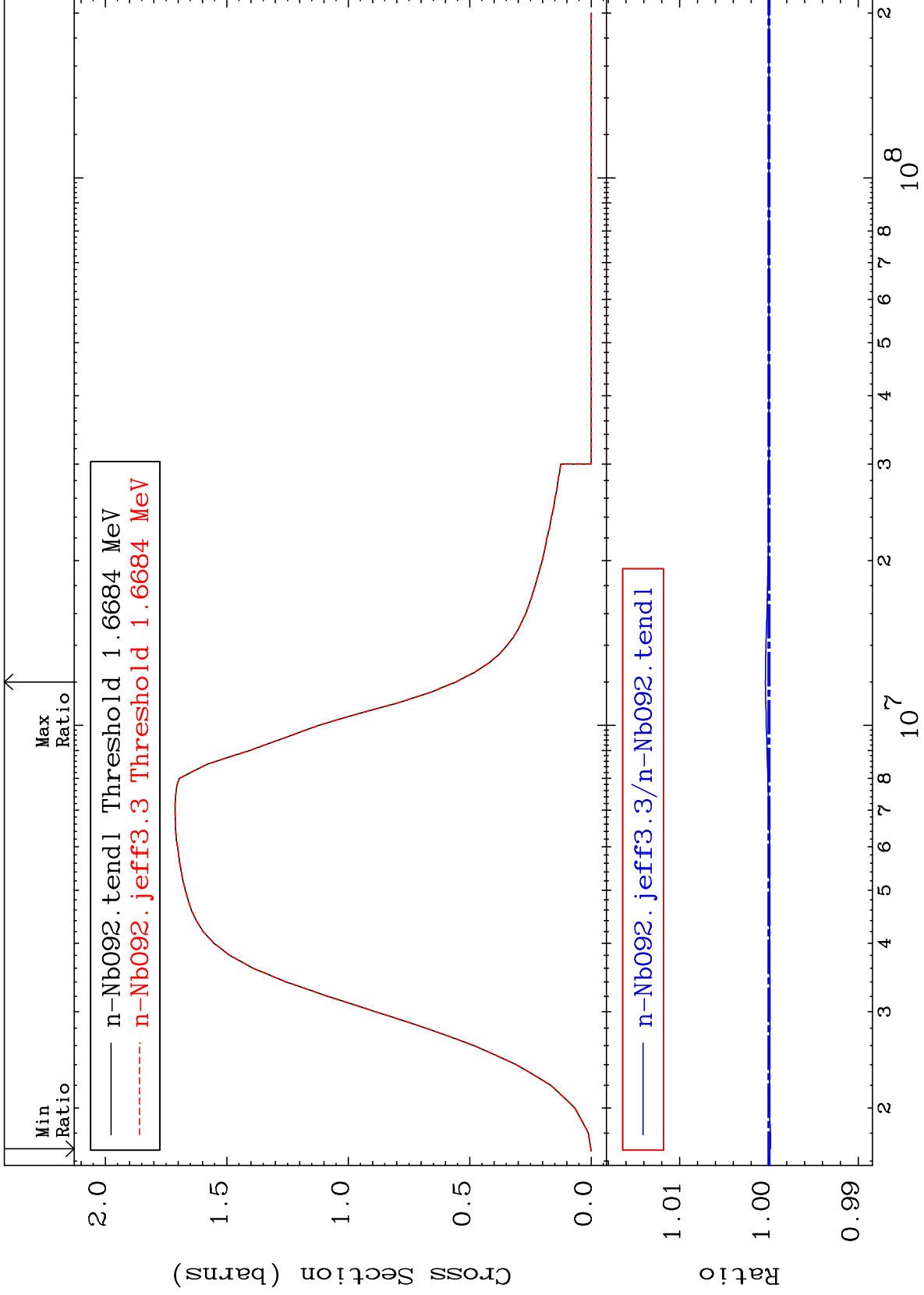


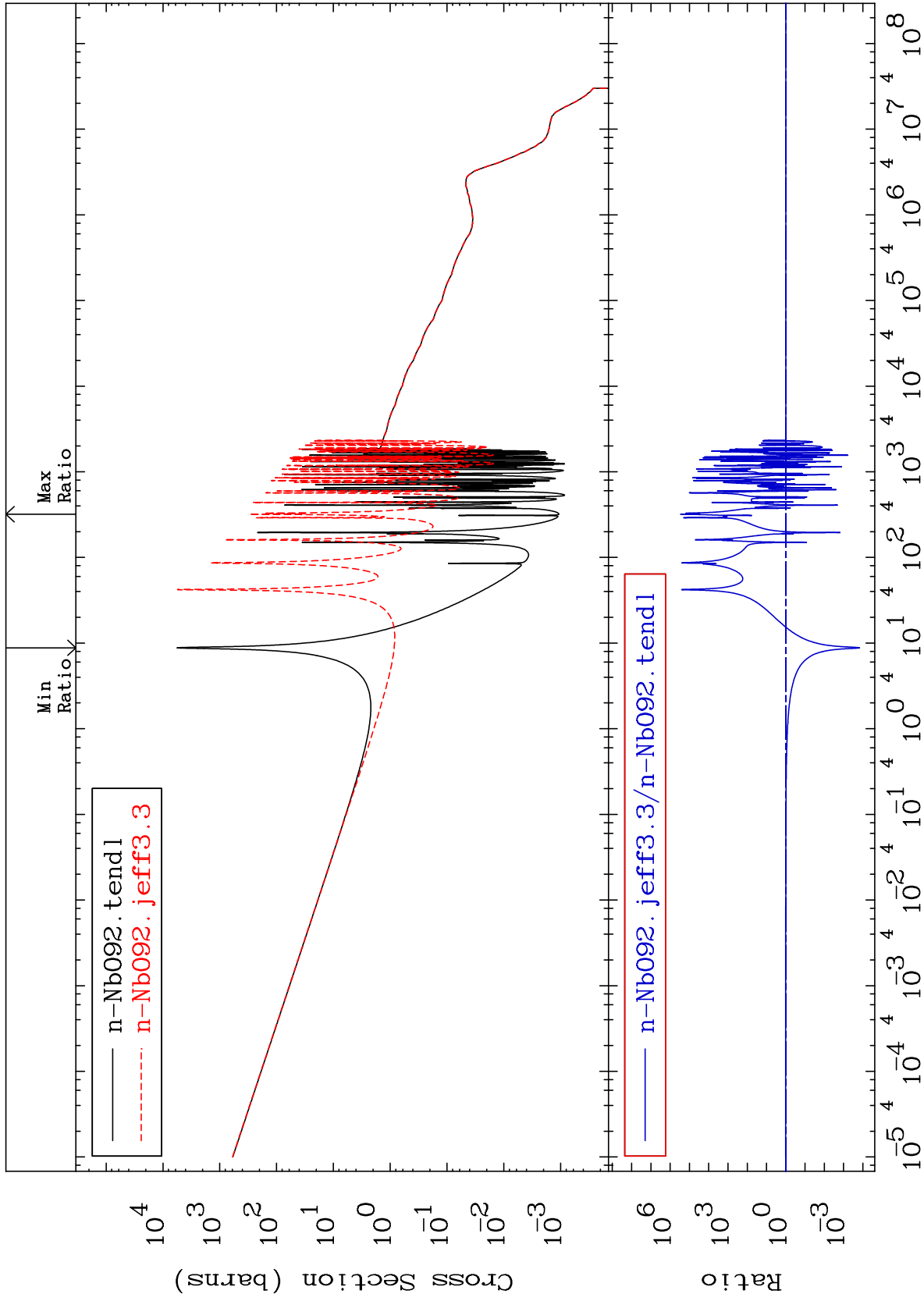
40

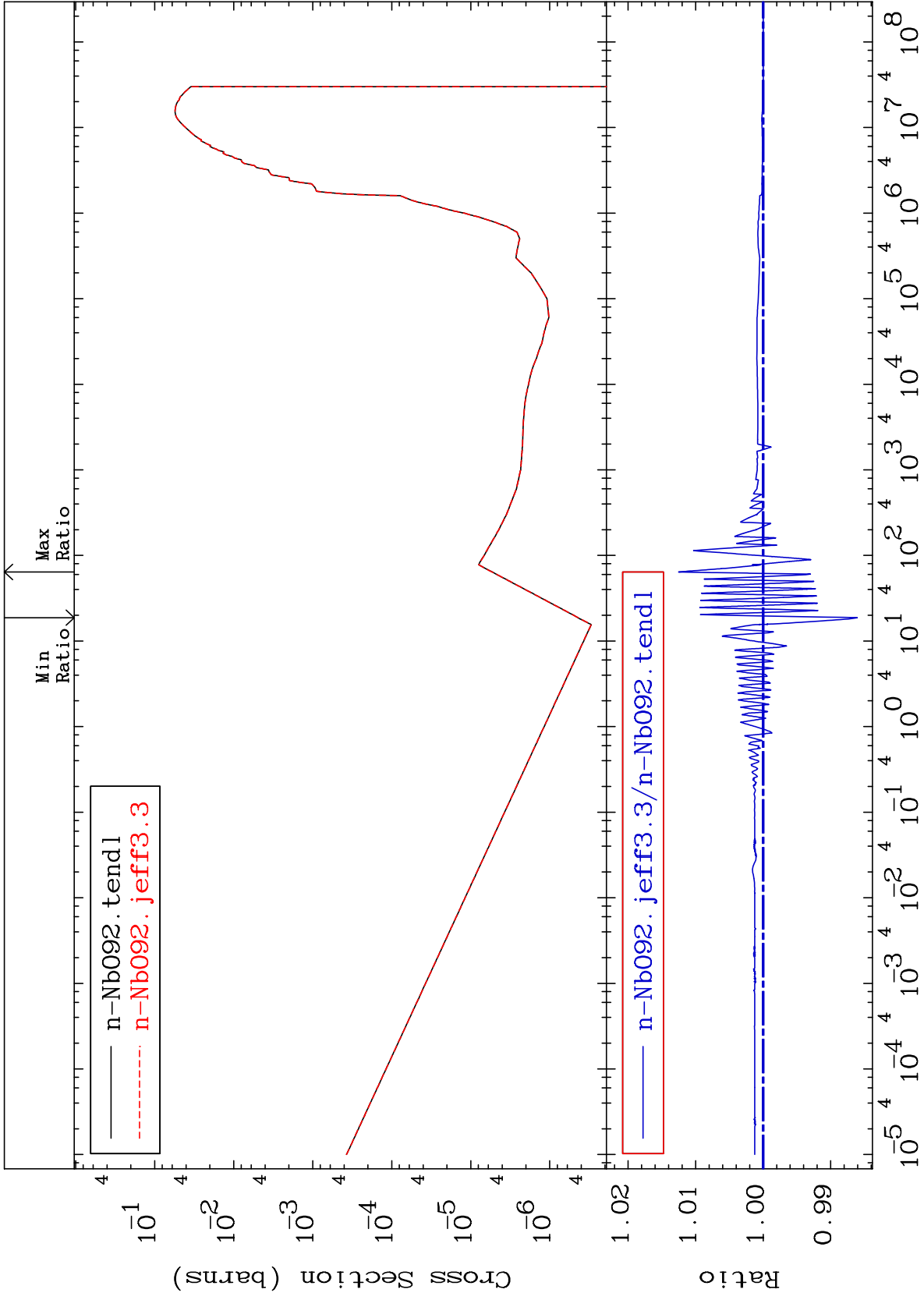
Incident Energy (eV)

41-Nb-92









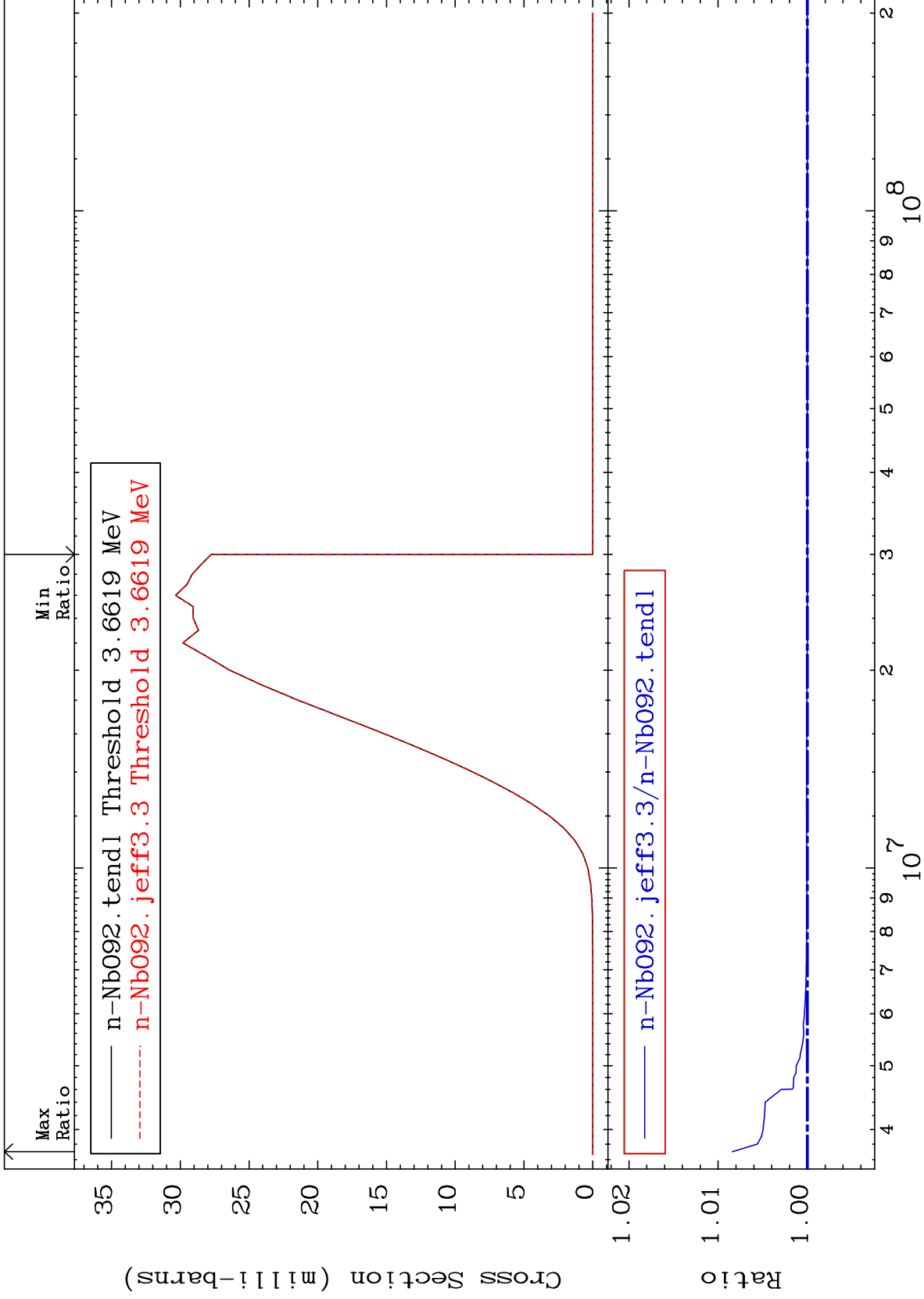
MAT 4122

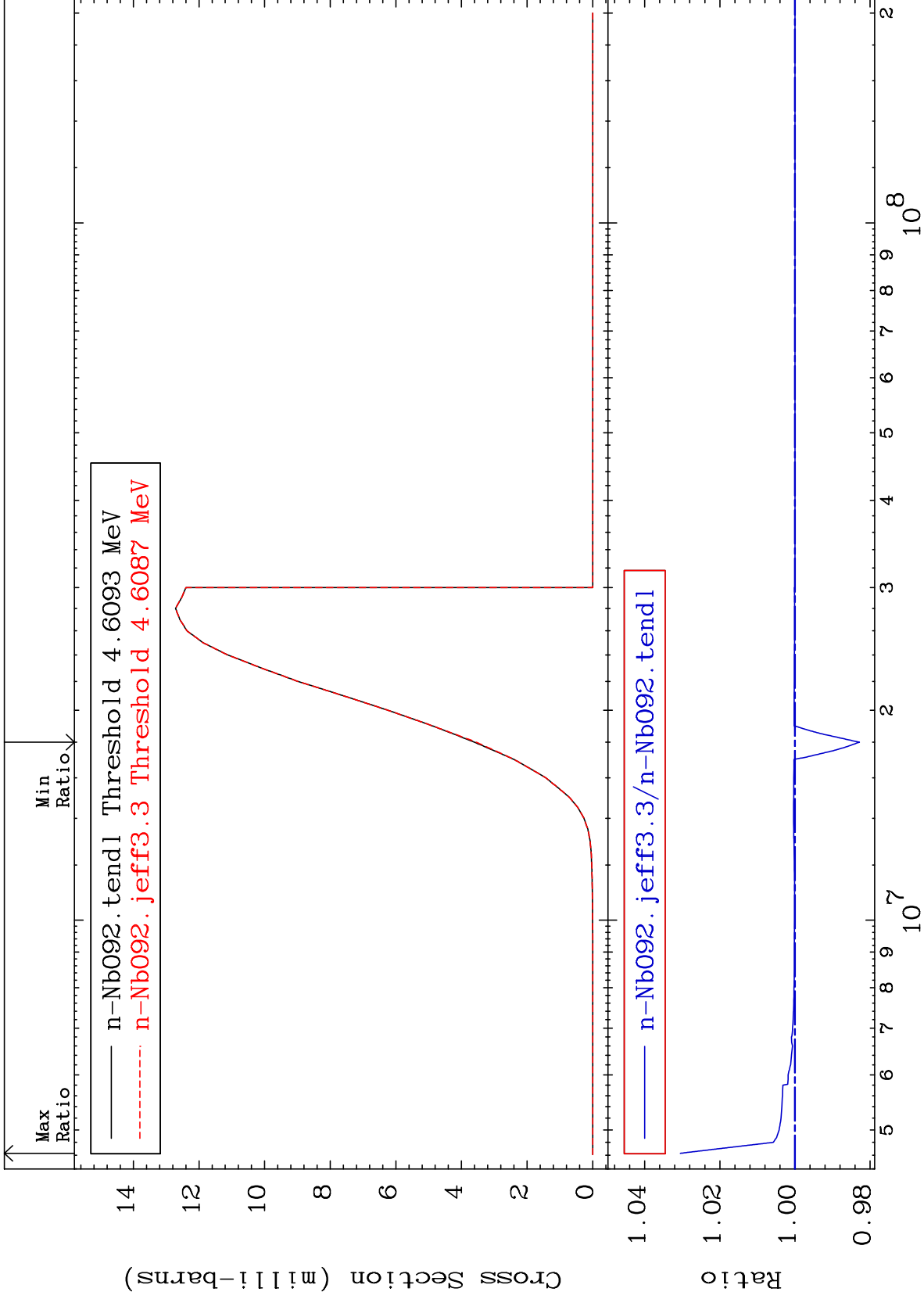
(n, d)

41-Nb-92

Cross Section

-0.004 To 0.843 %



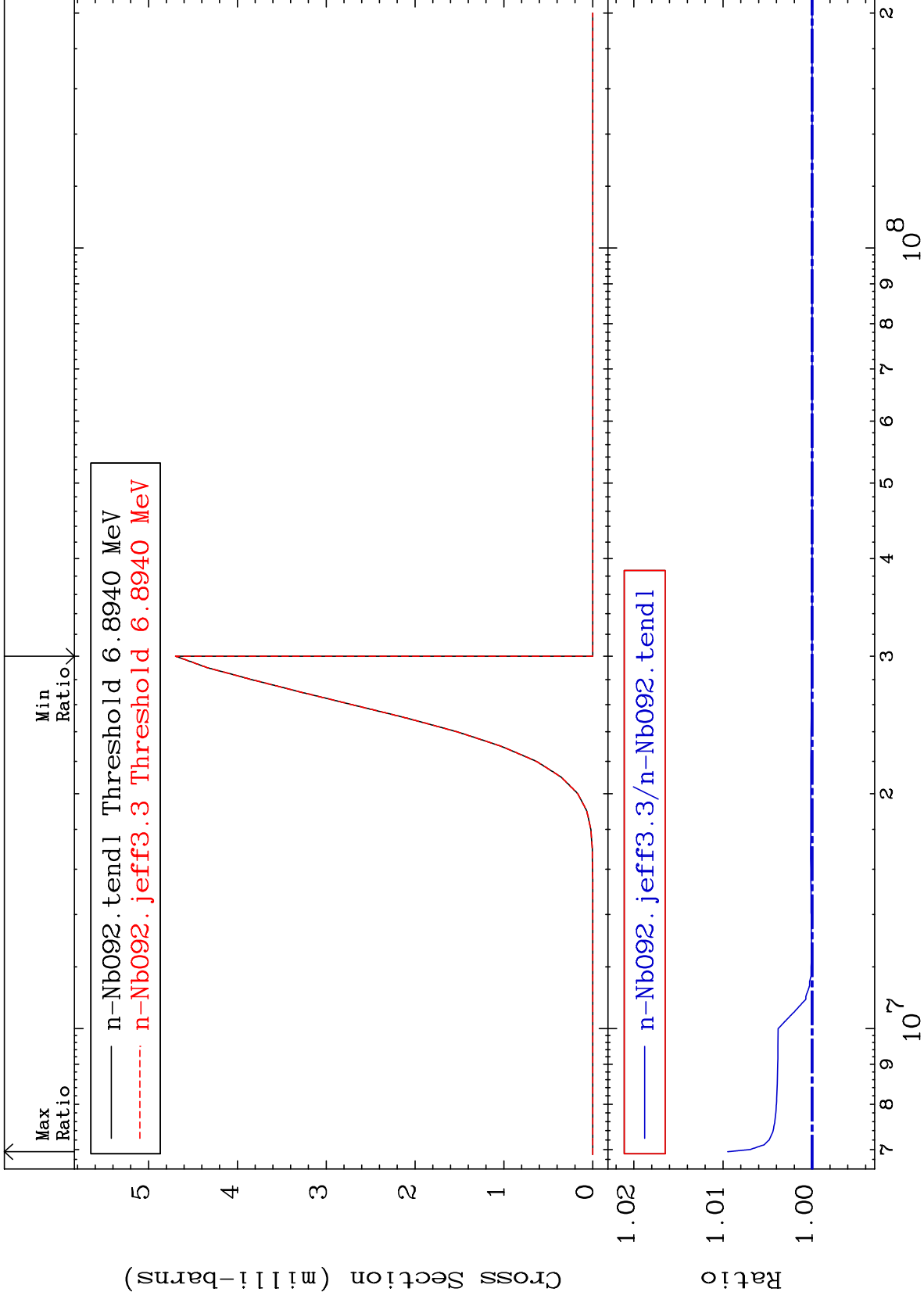


MAT 4122

(n,He-3)

41-Nb-92  
0.000 To 0.947 %

Cross Section



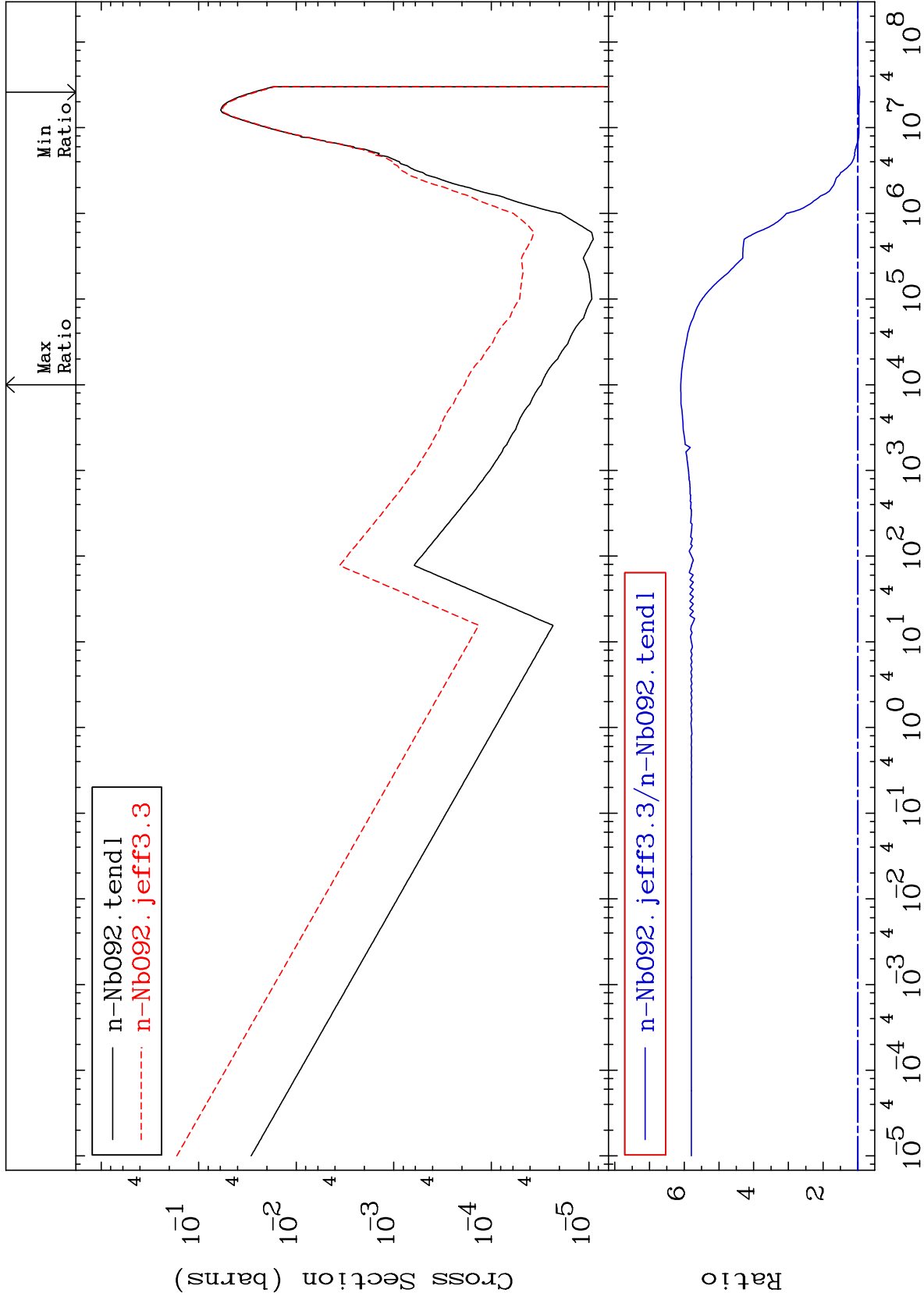
MAT 4122

(n,  $\alpha$ )

41-Nb-92

Cross Section

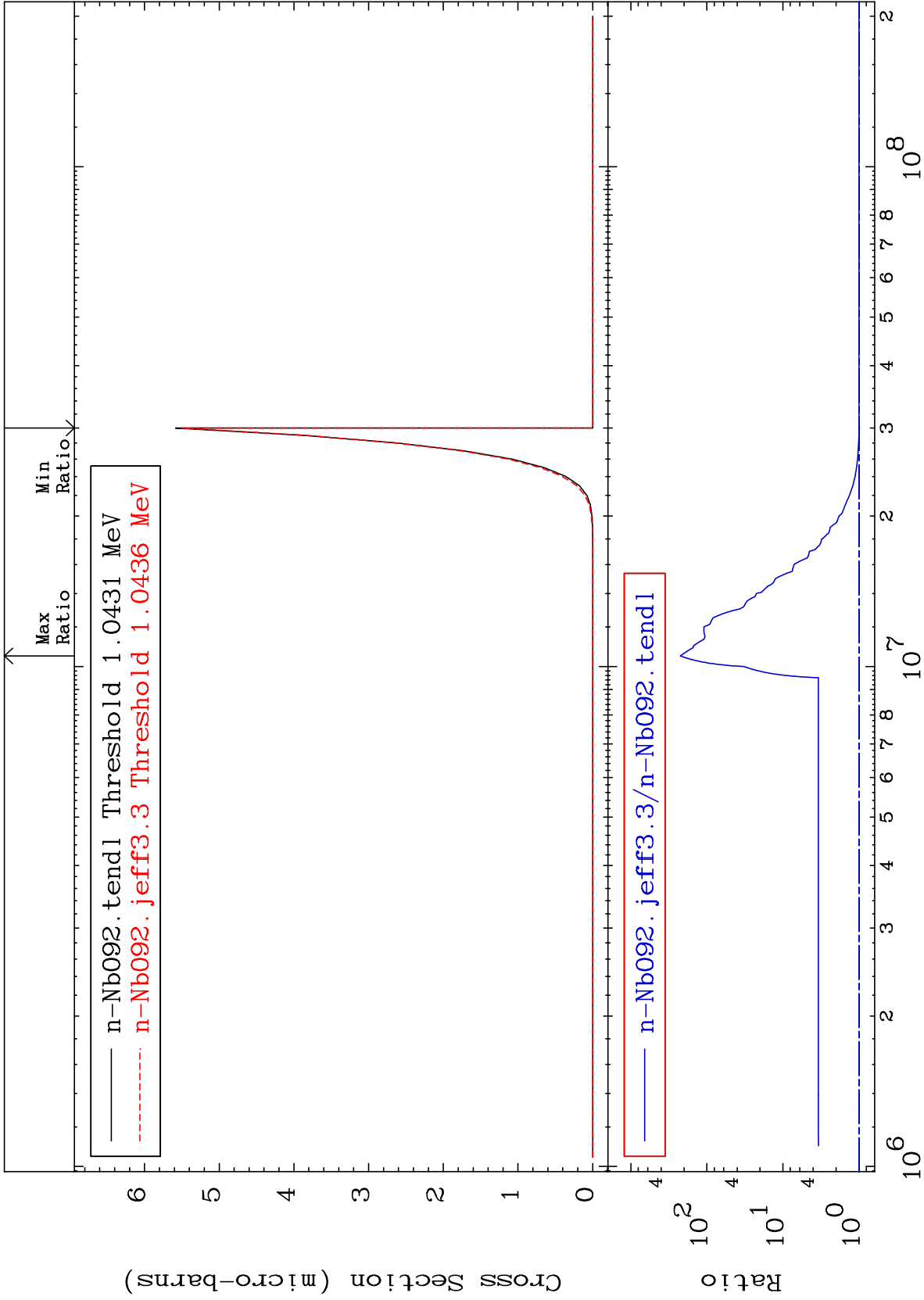
-4.944 To 509.9 %



47

Incident Energy (eV)

41-Nb-92



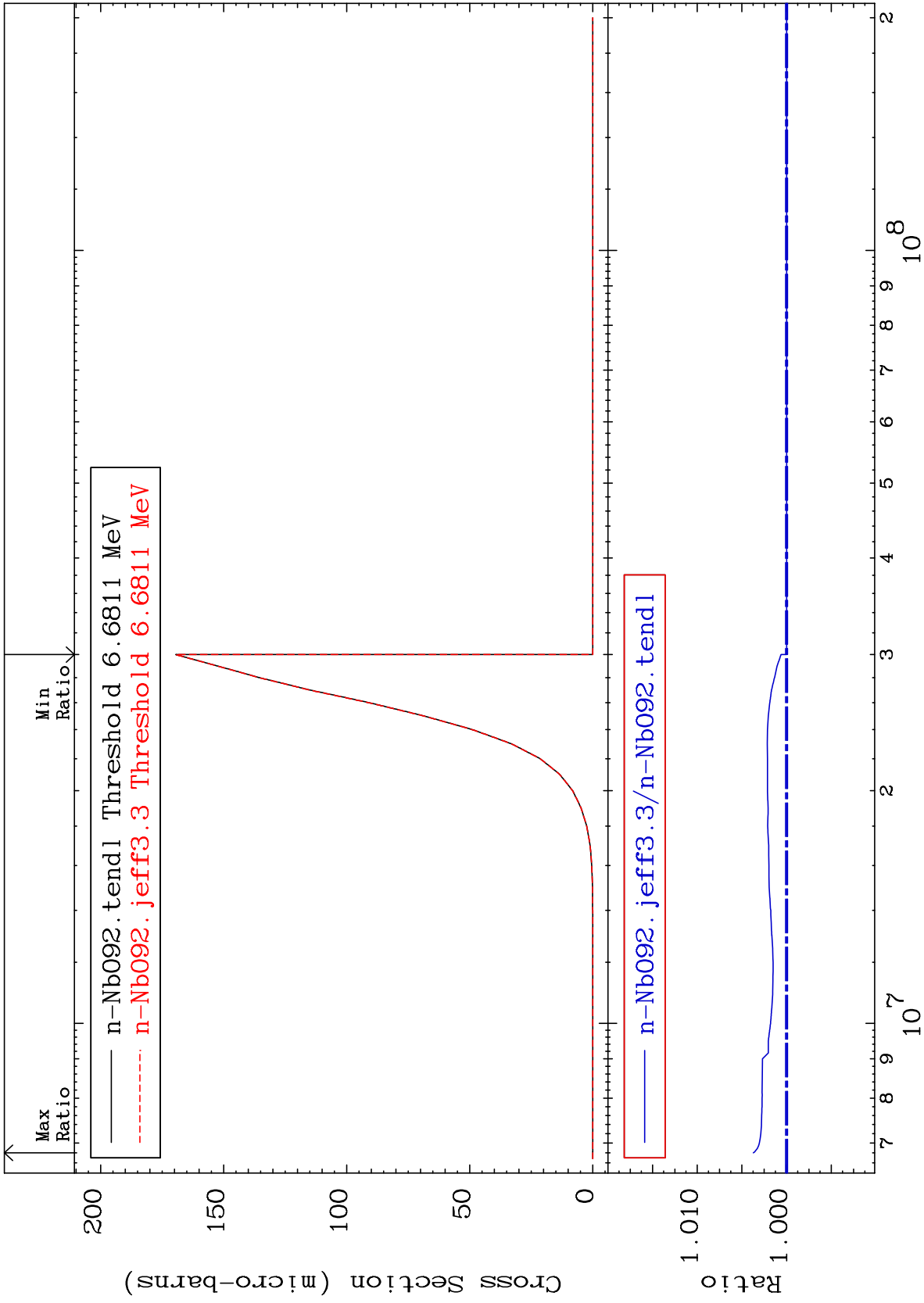


MAT 4122

41-Nb-92

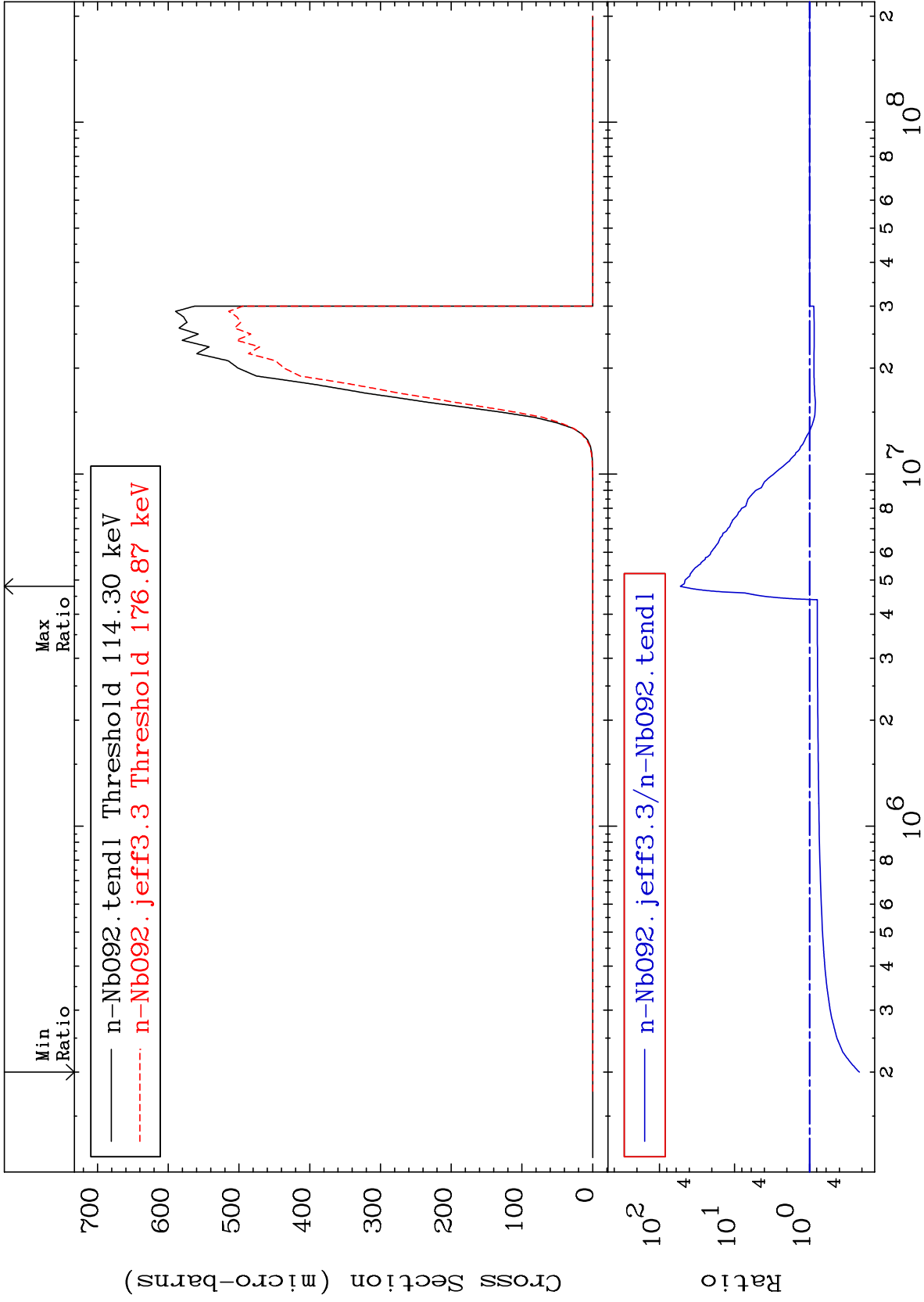
(n,2p)  
Cross Section

0.000 To 0.373 %



Cross Section

-78.39 To 5165. %



MAT 4122

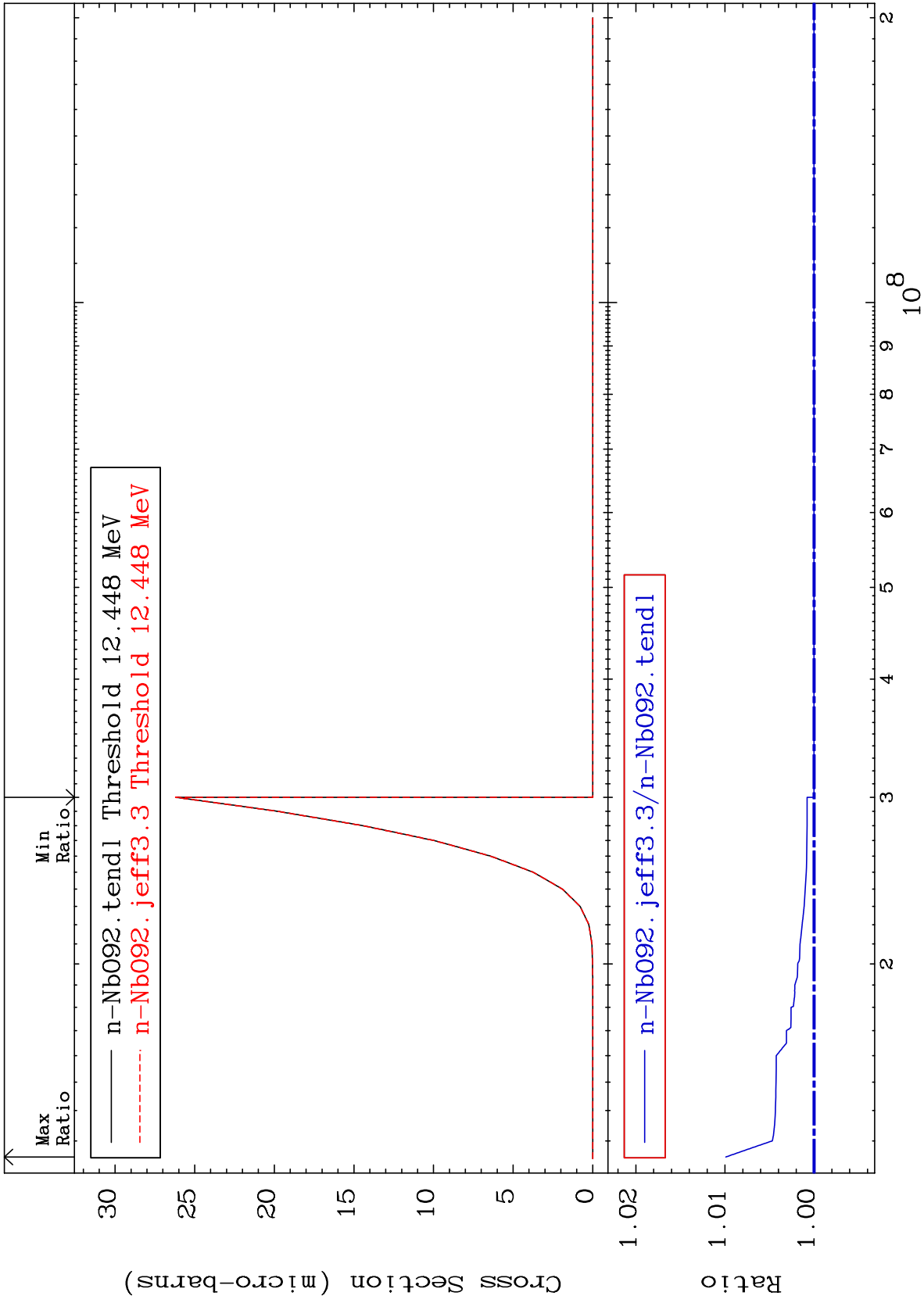
(n,p) d

41-Nb-92

Cross Section

0.000

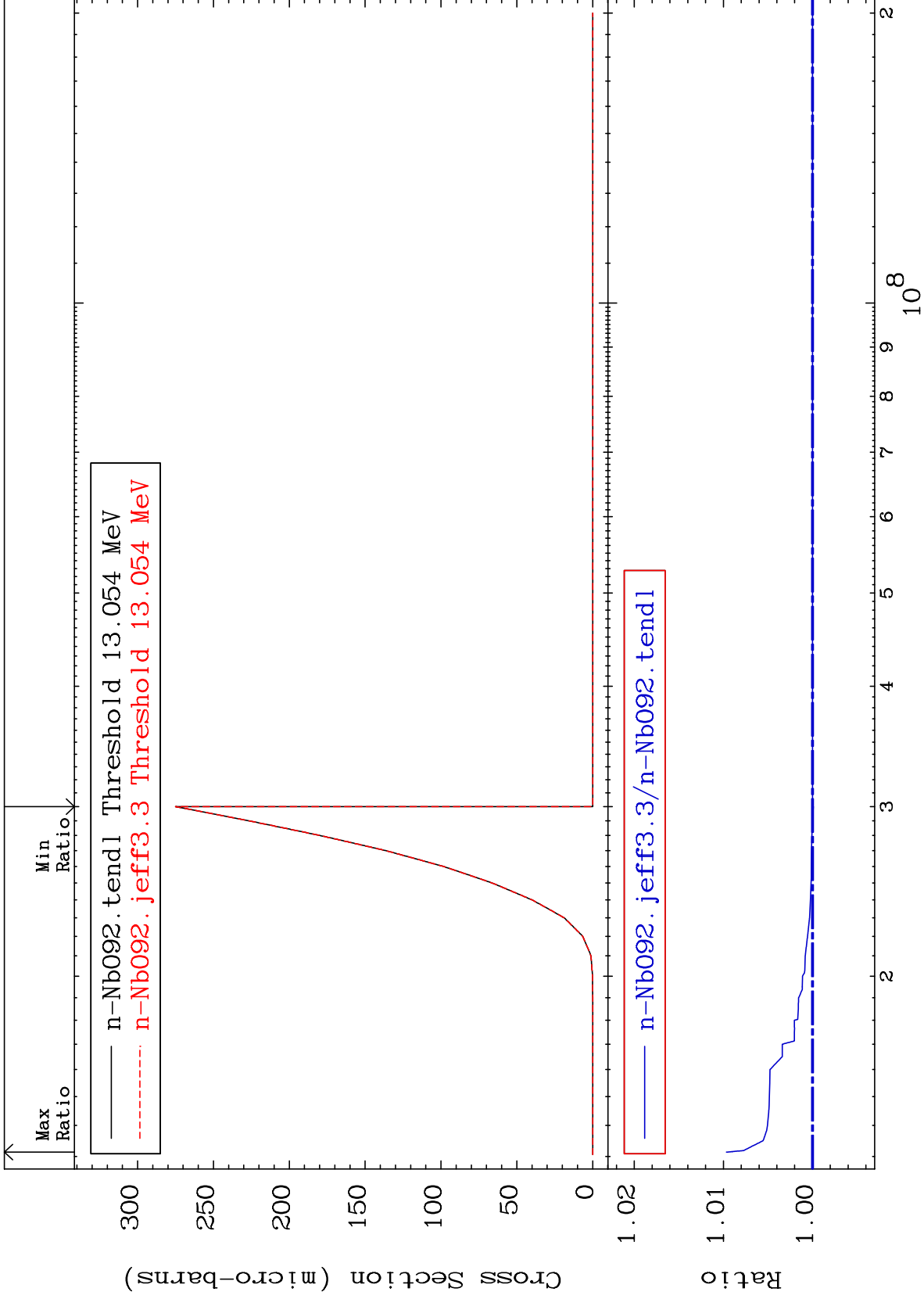
To 0.992 %



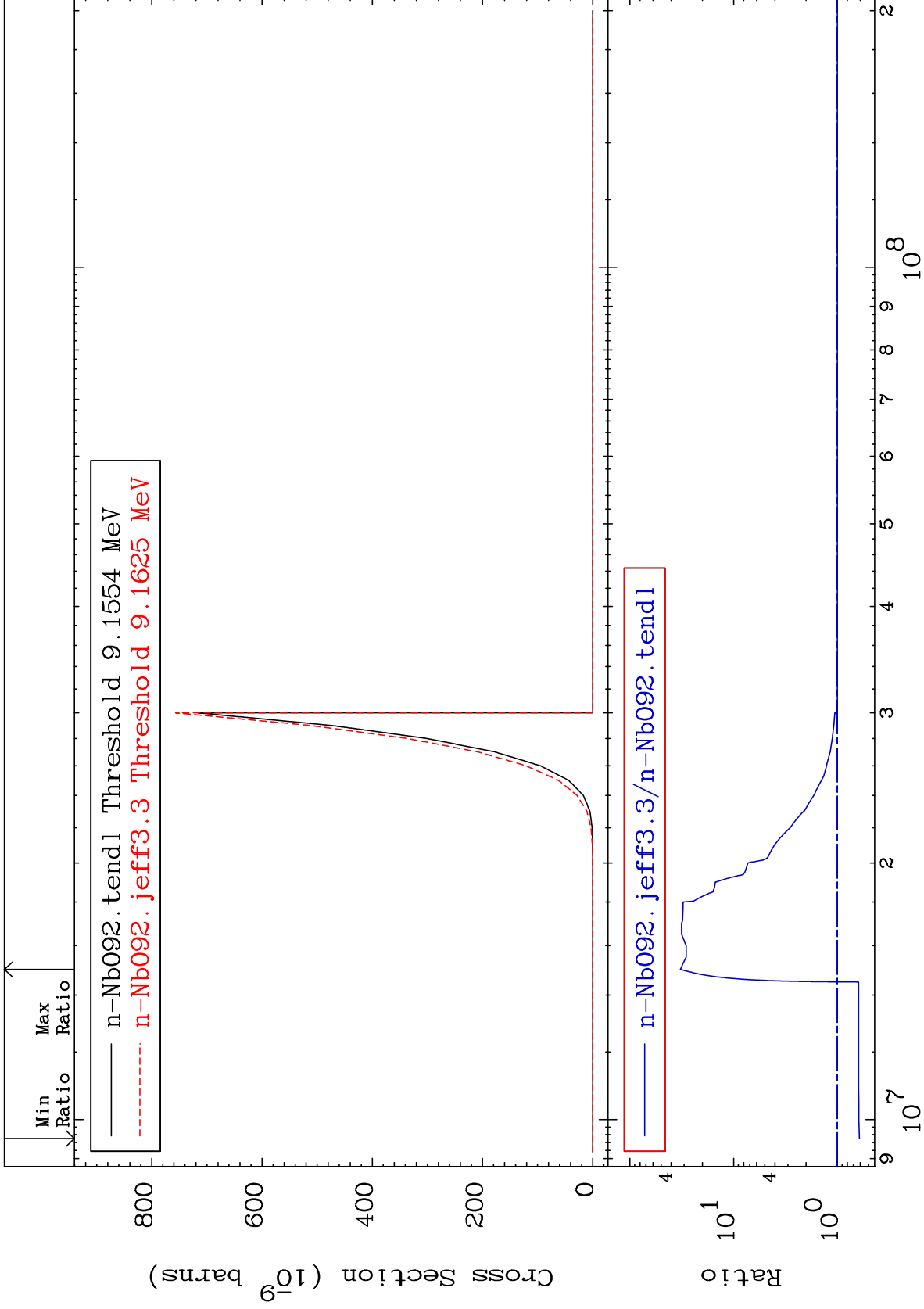
51

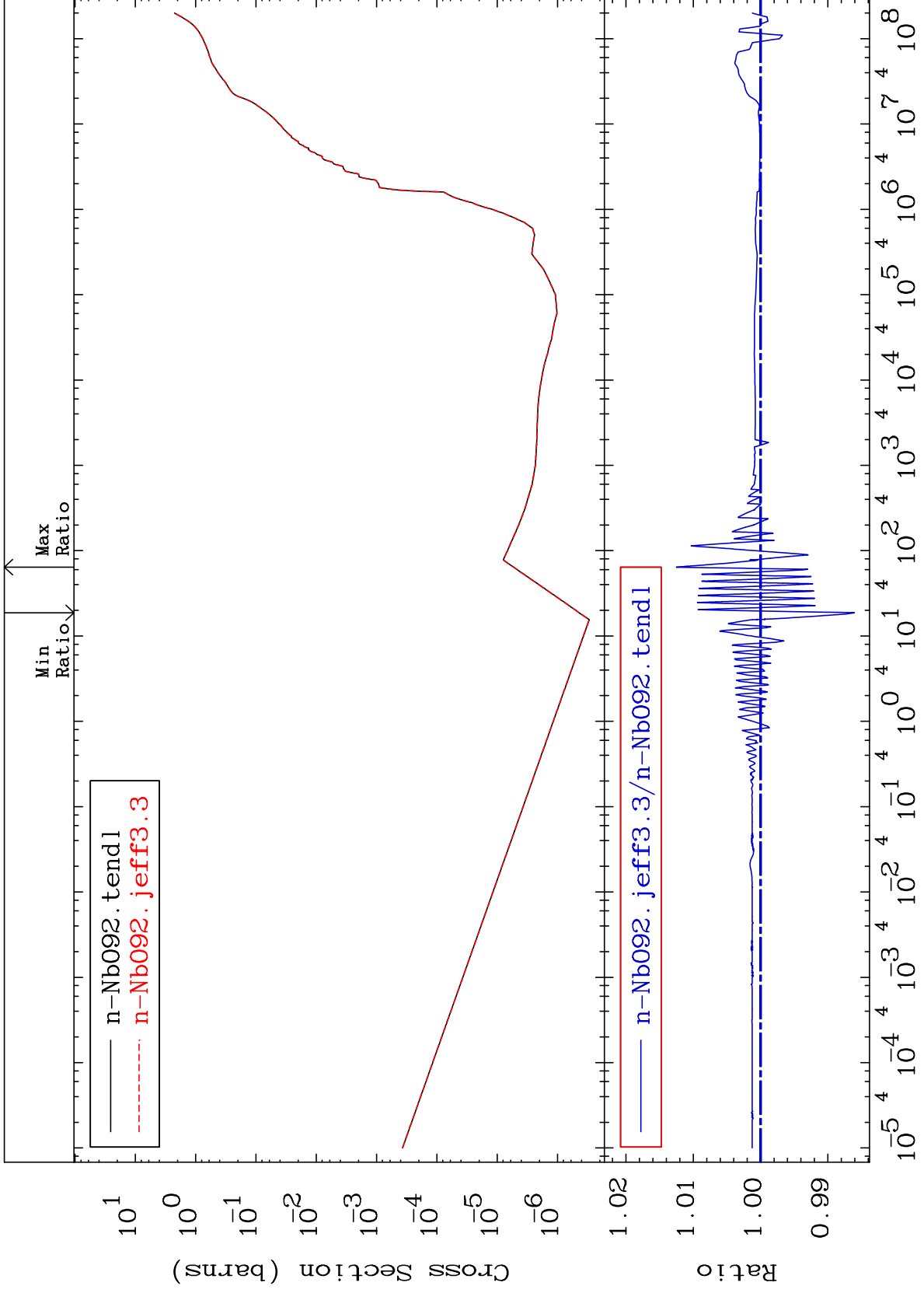
Incident Energy (eV)

41-Nb-92



Cross Section

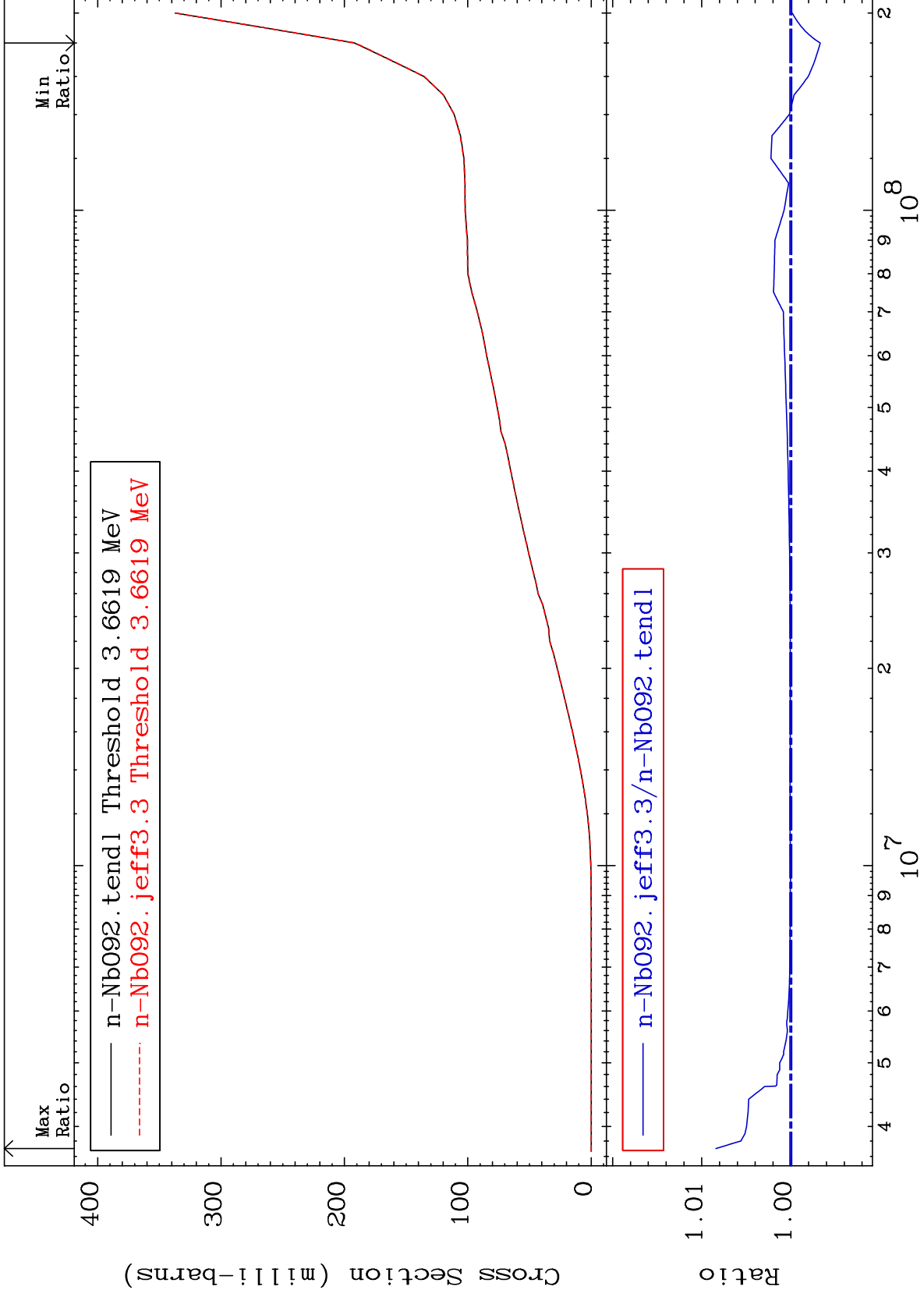


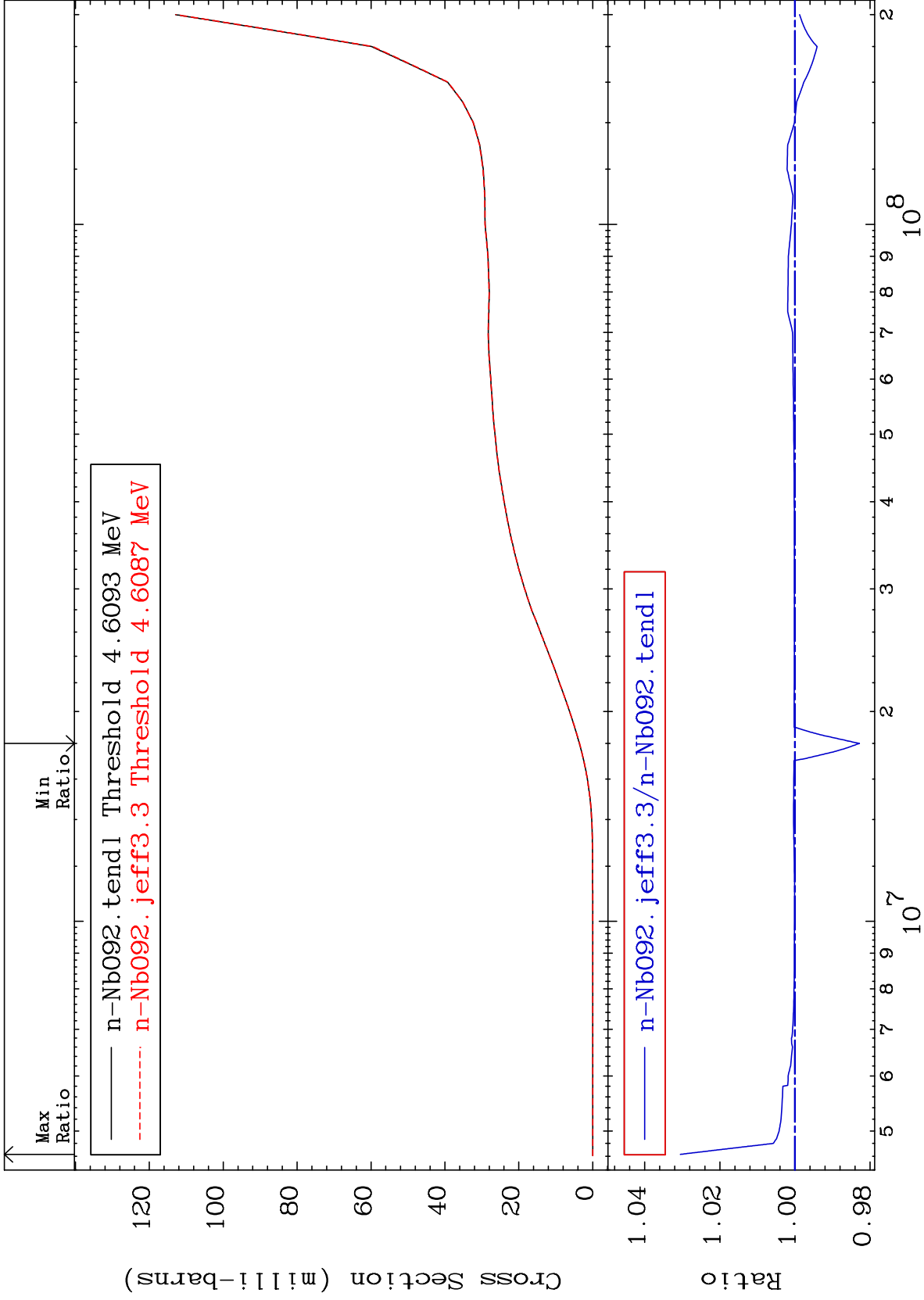


MAT 4122

Deuterium Production  
Cross Section

41-Nb-92  
-0.329 To 0.843 %



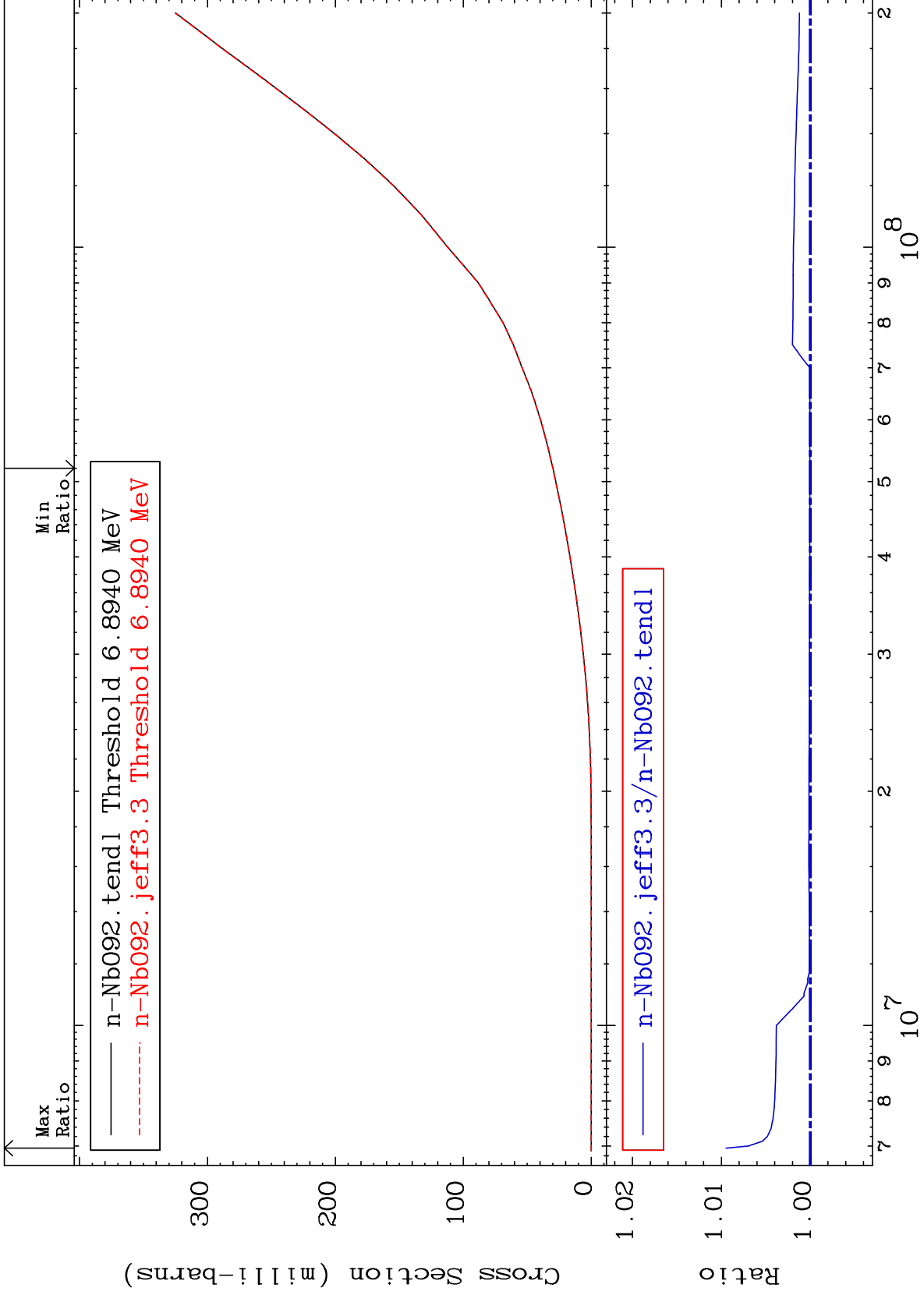




MAT 4122

He-3 Production  
Cross Section

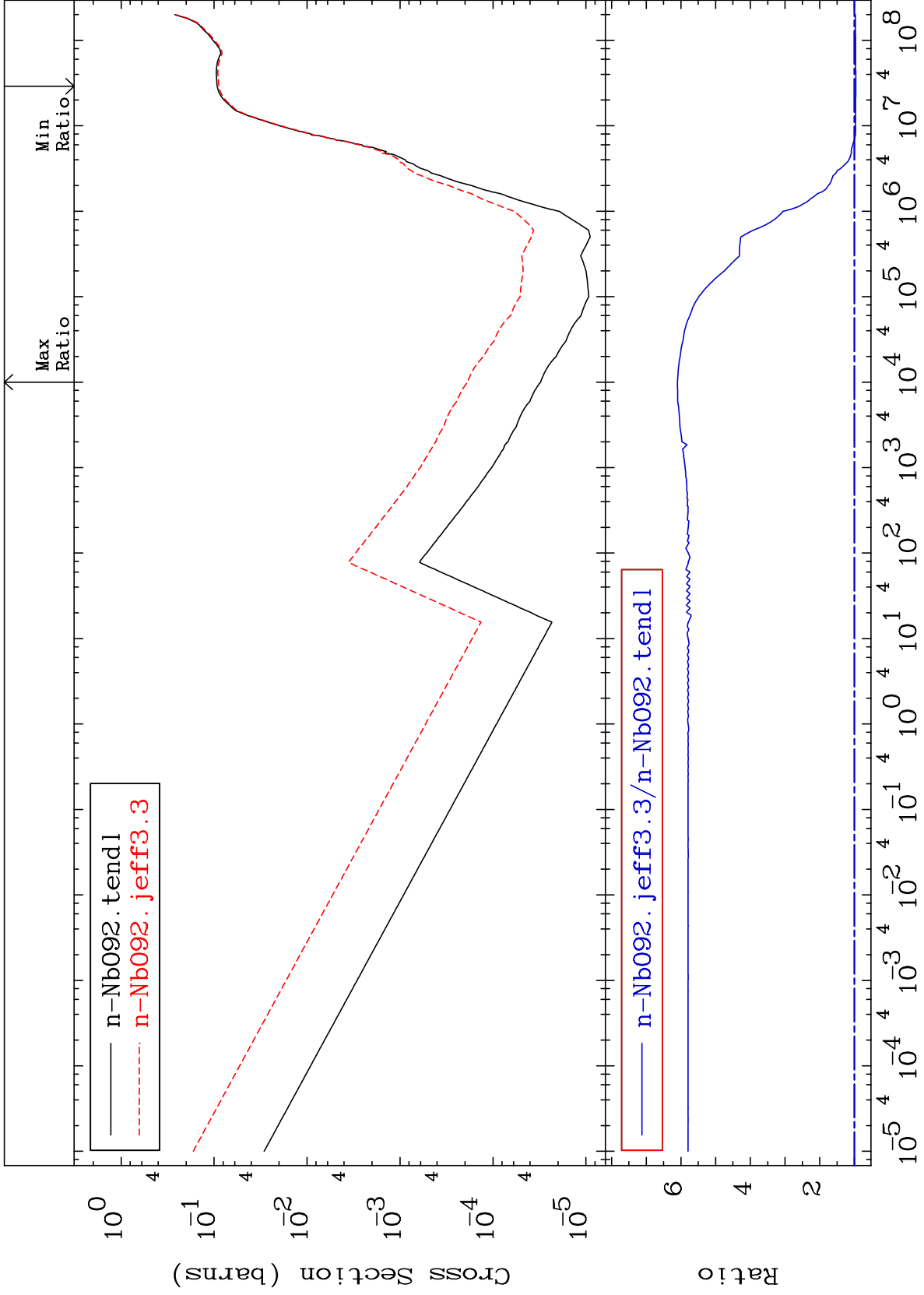
41-Nb-92  
To 0.947 %

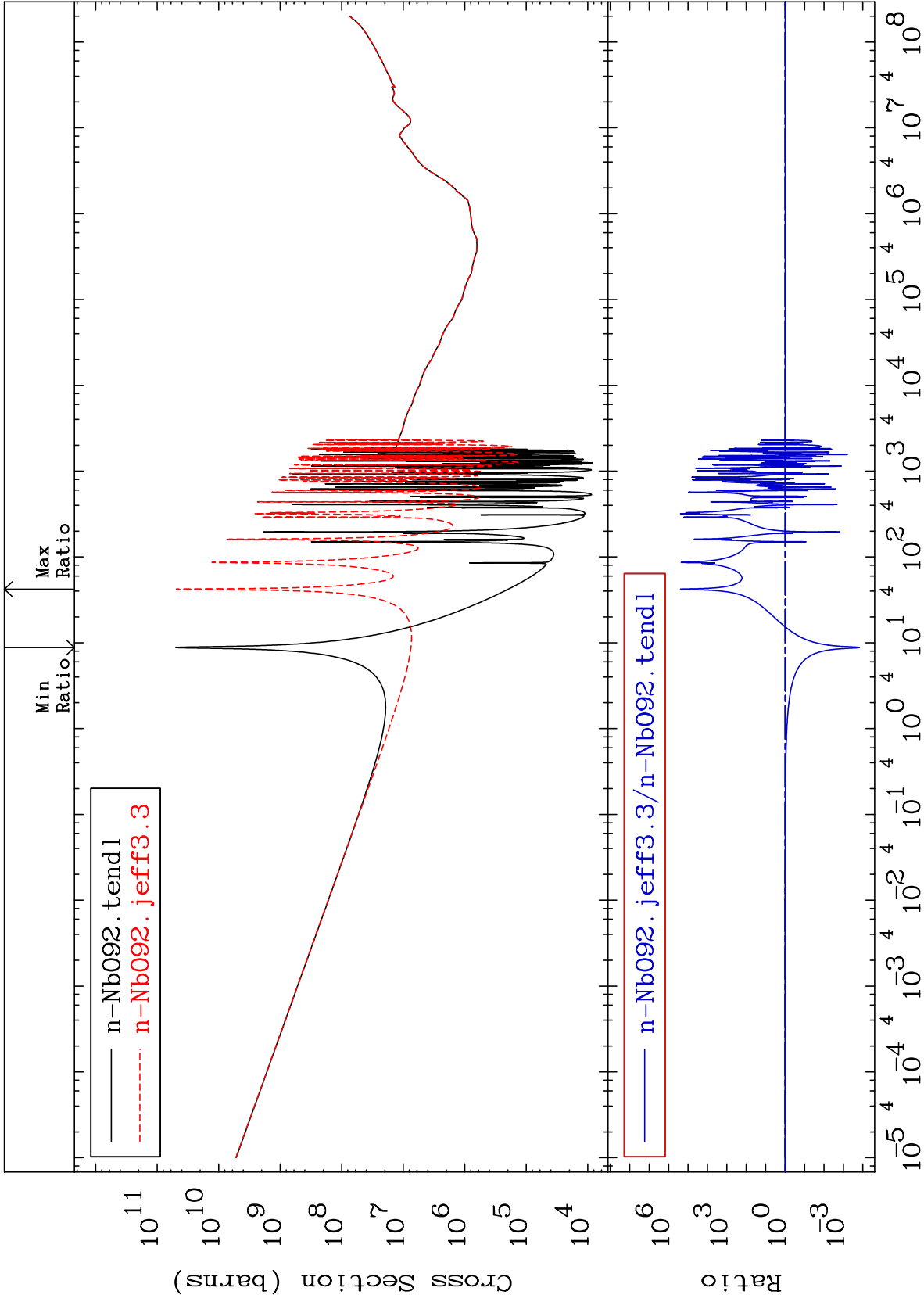


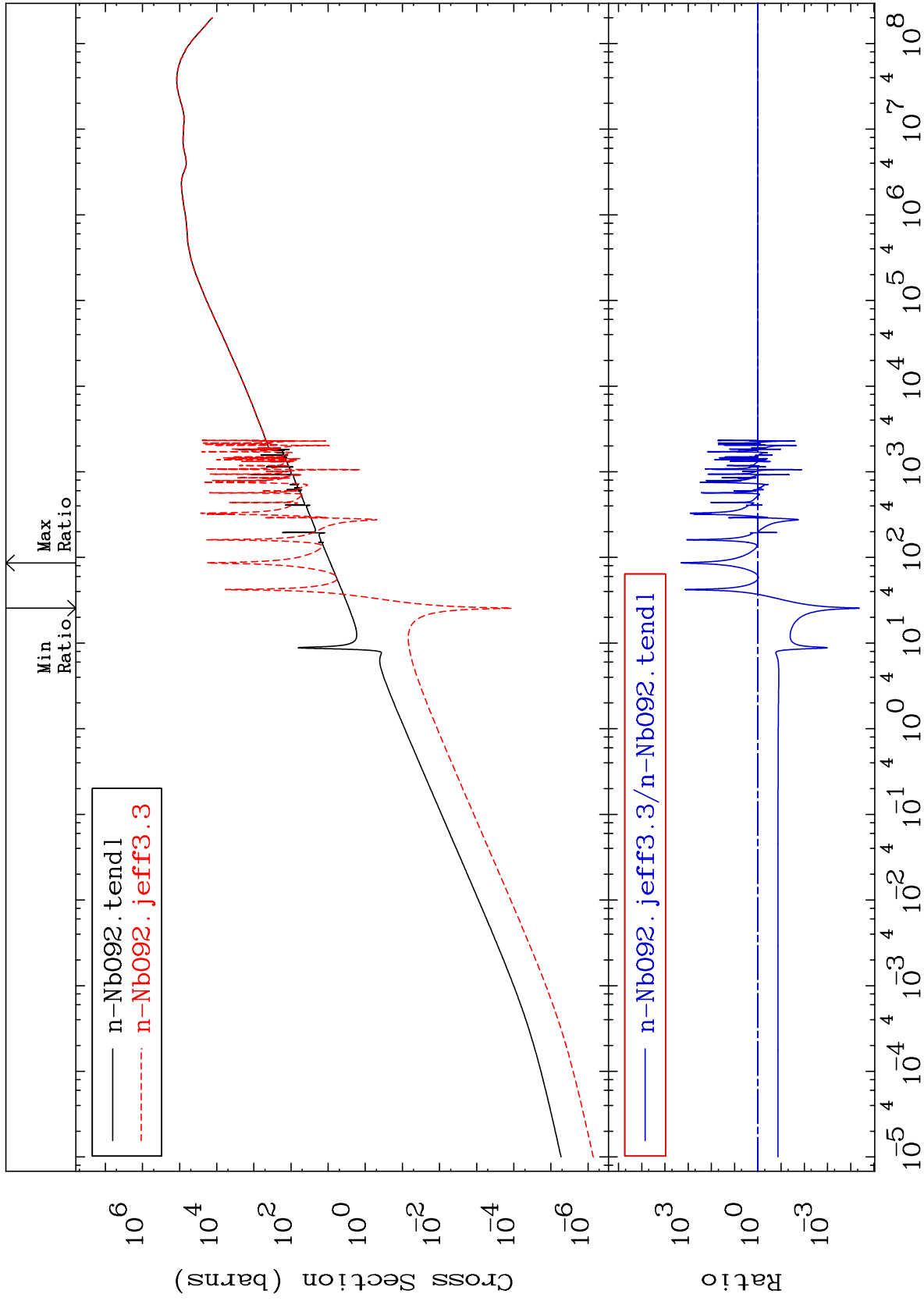
57

Incident Energy (eV)

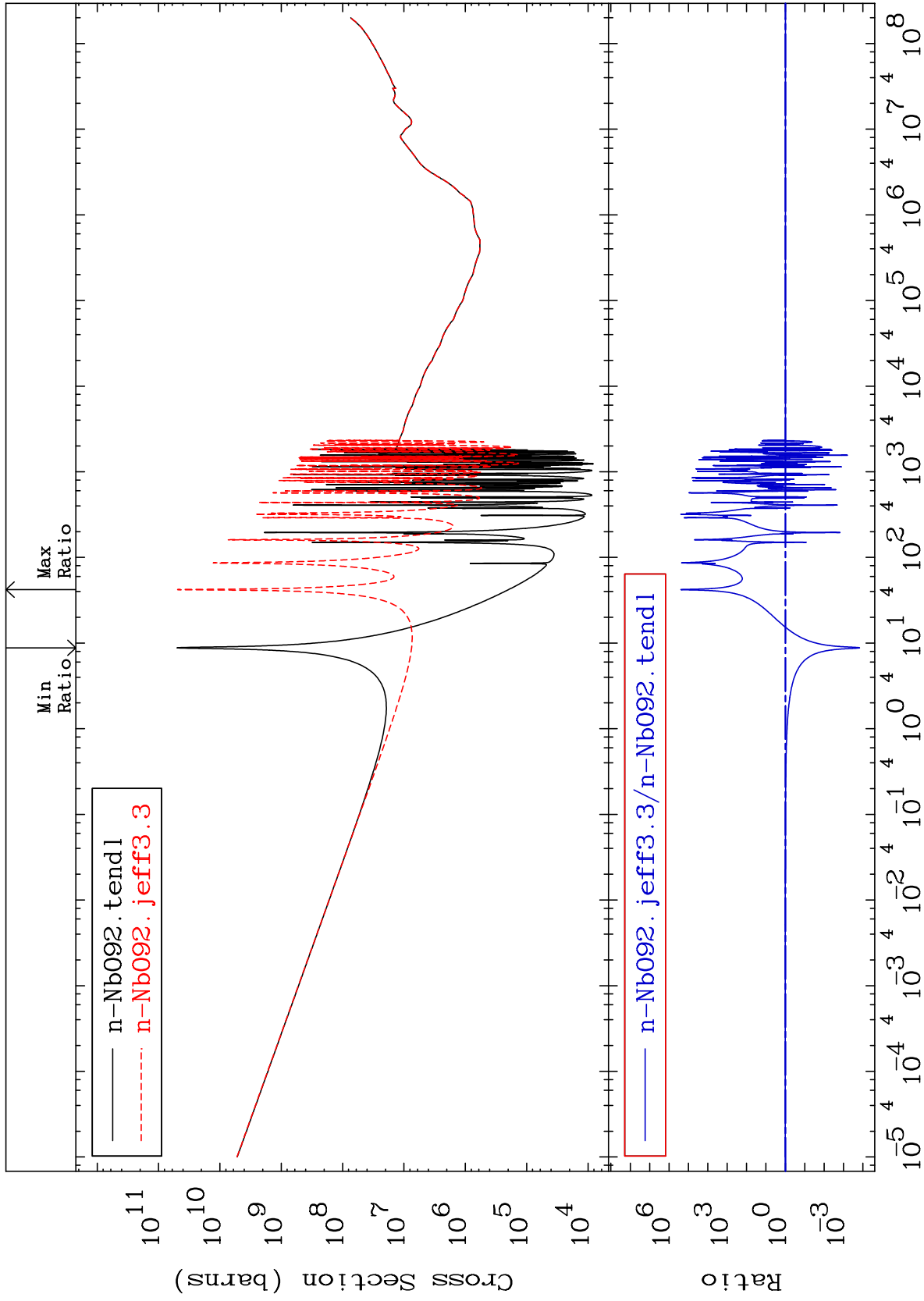
41-Nb-92







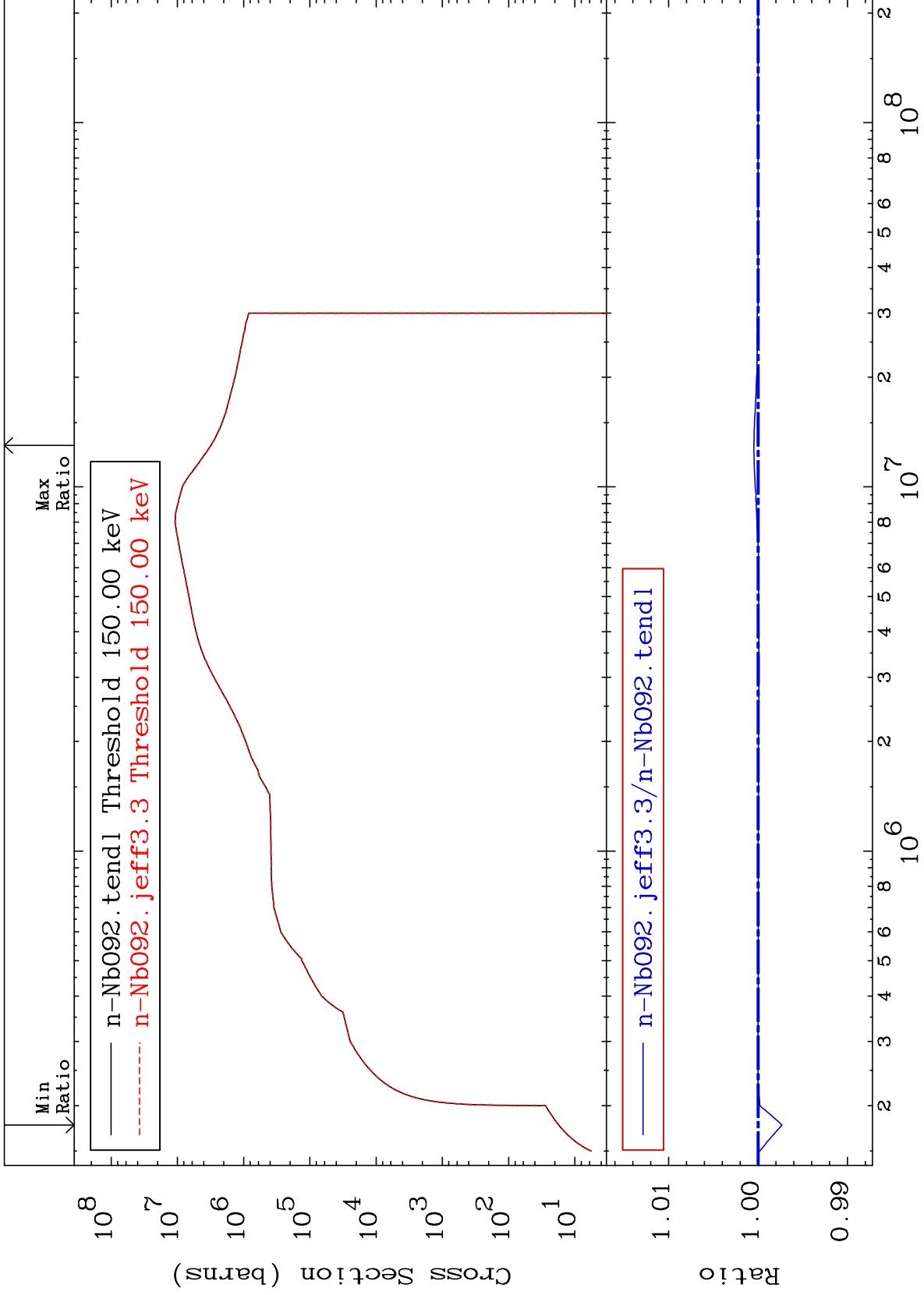
Cross Section



MAT 4122

Kerma inelastic (mt51-91)  
Cross Section

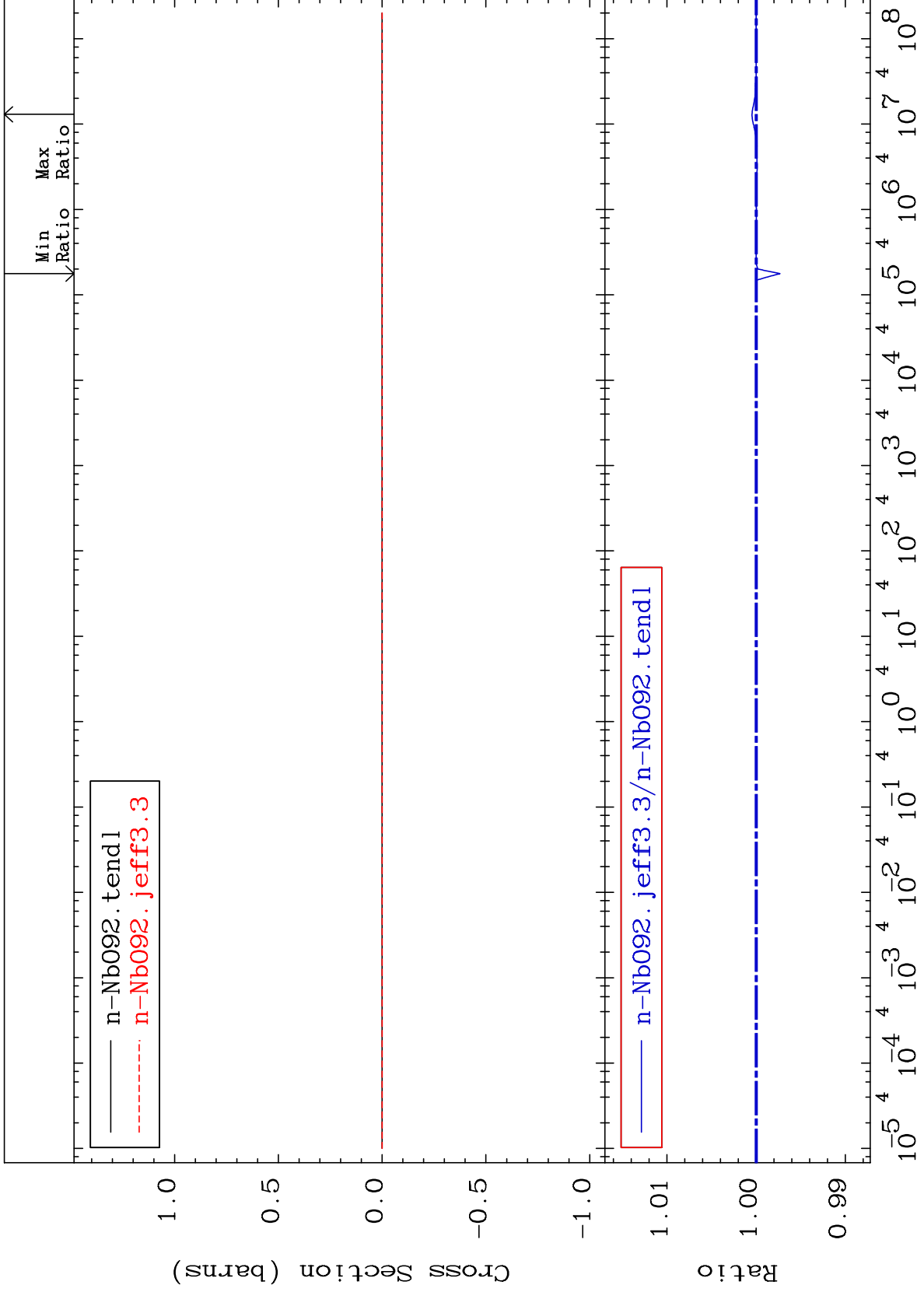
41-Nb-92  
-0.268 To 0.047 %

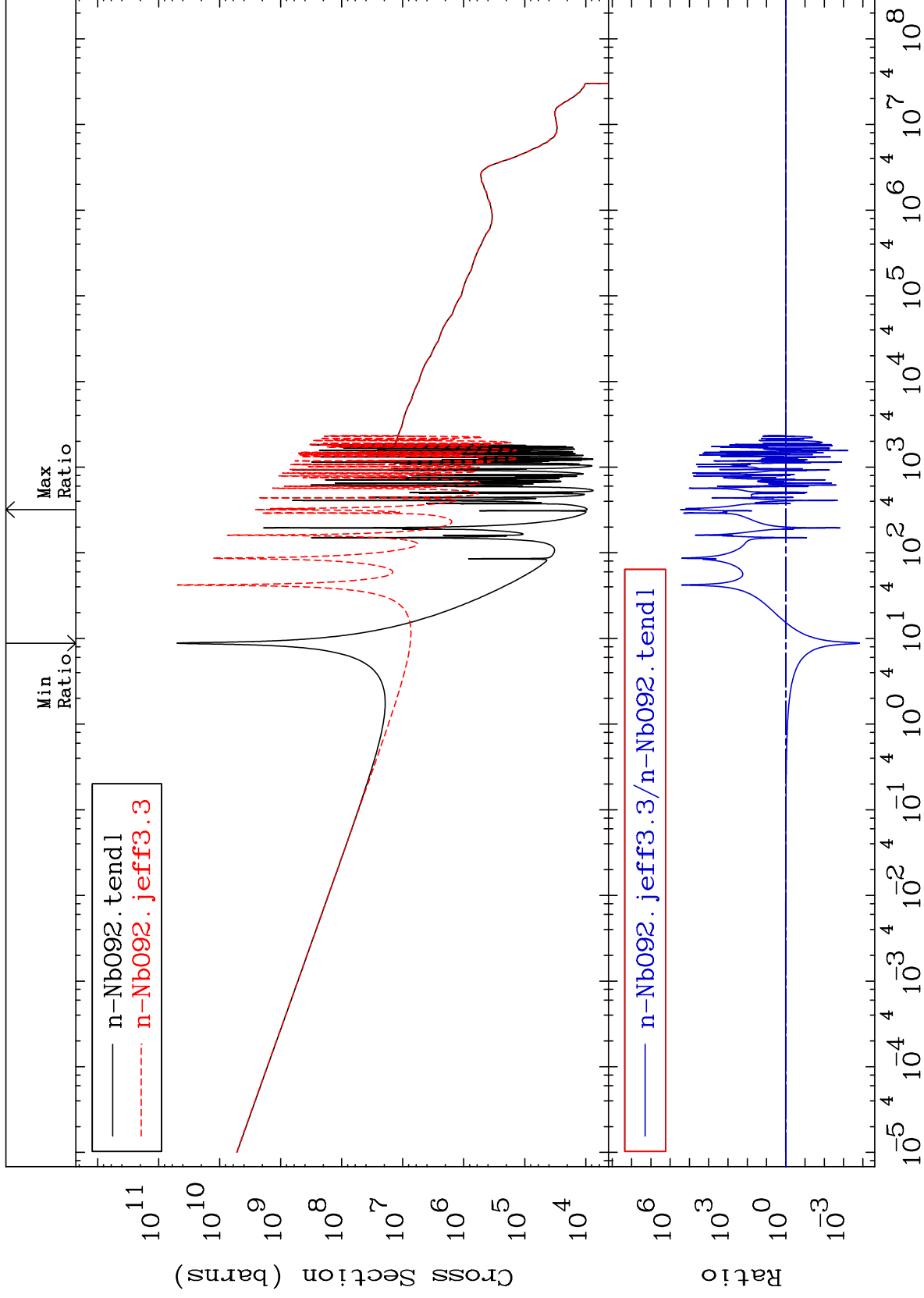


MAT 4122

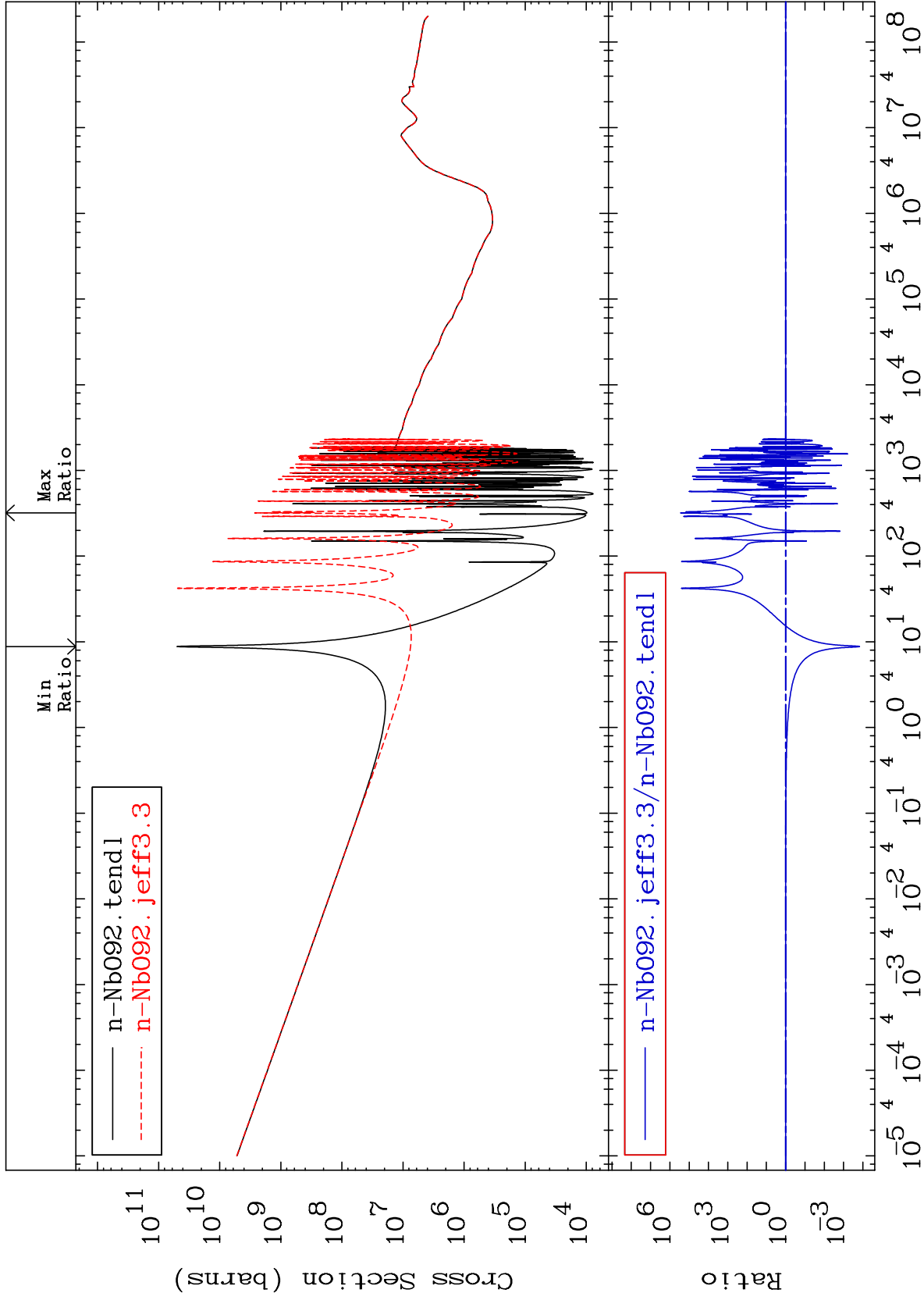
Kerma fission (mt18 or mt19-20-21-38)  
Cross Section

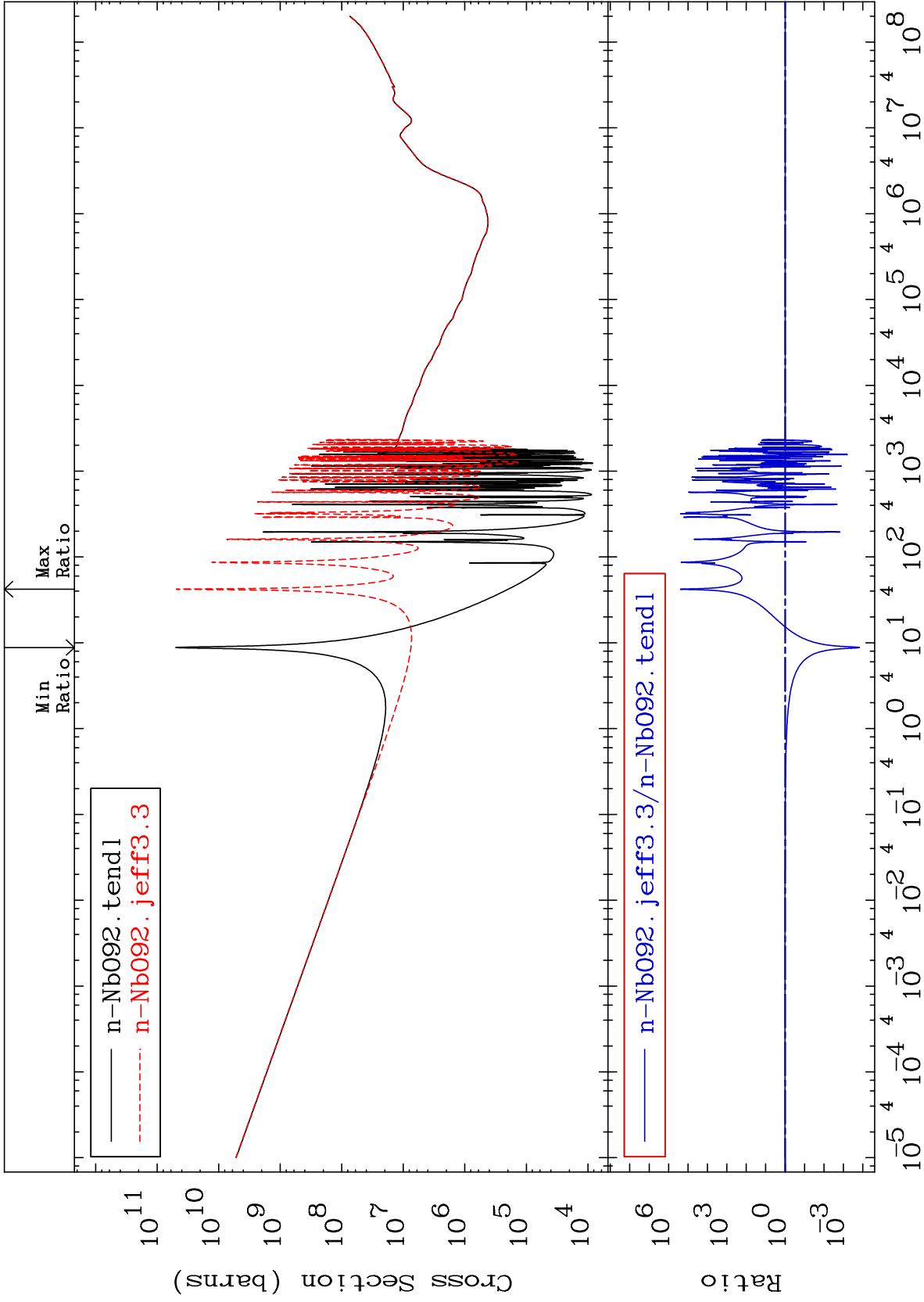
41-Nb-92  
-0.268 To 0.047 %

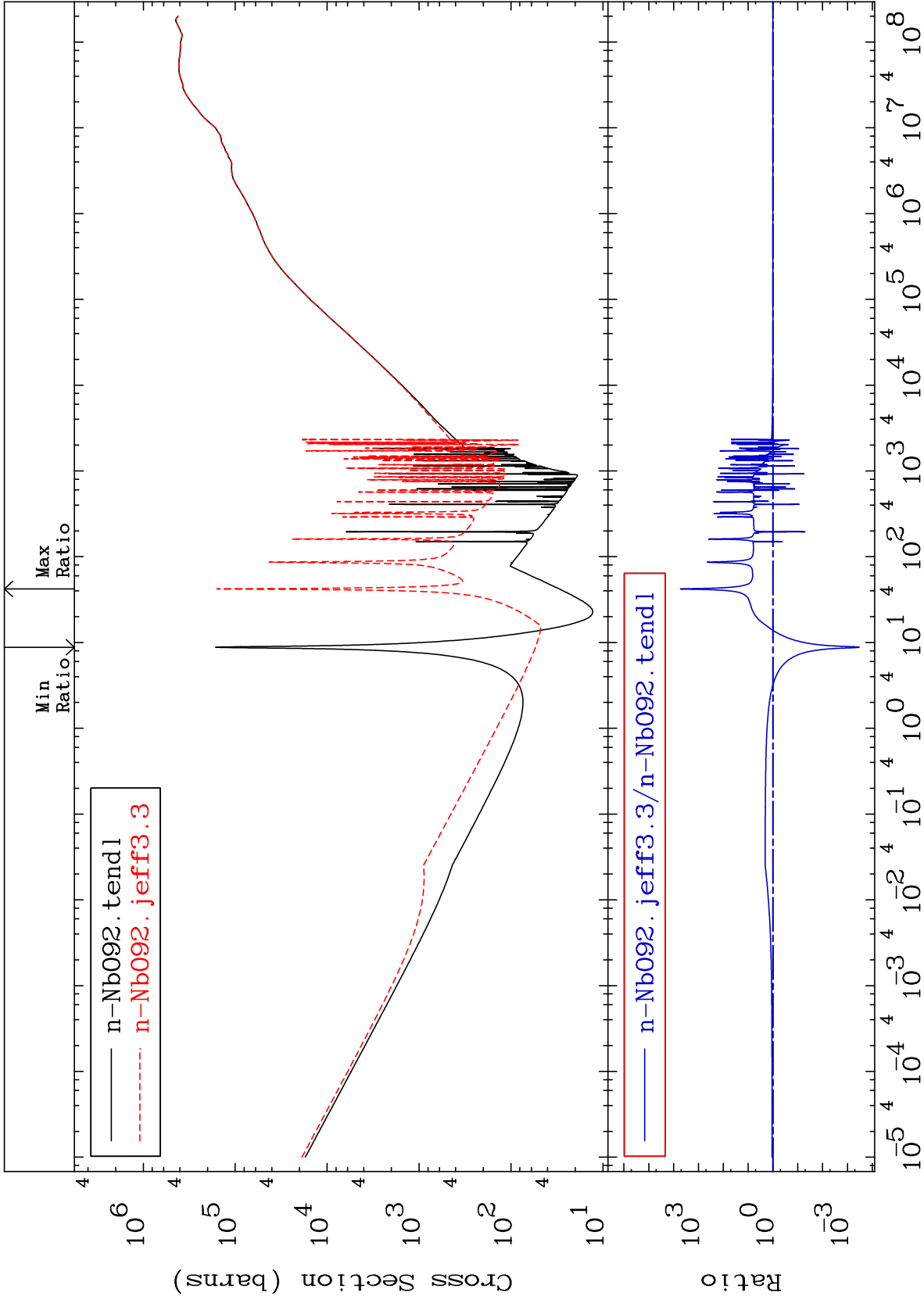








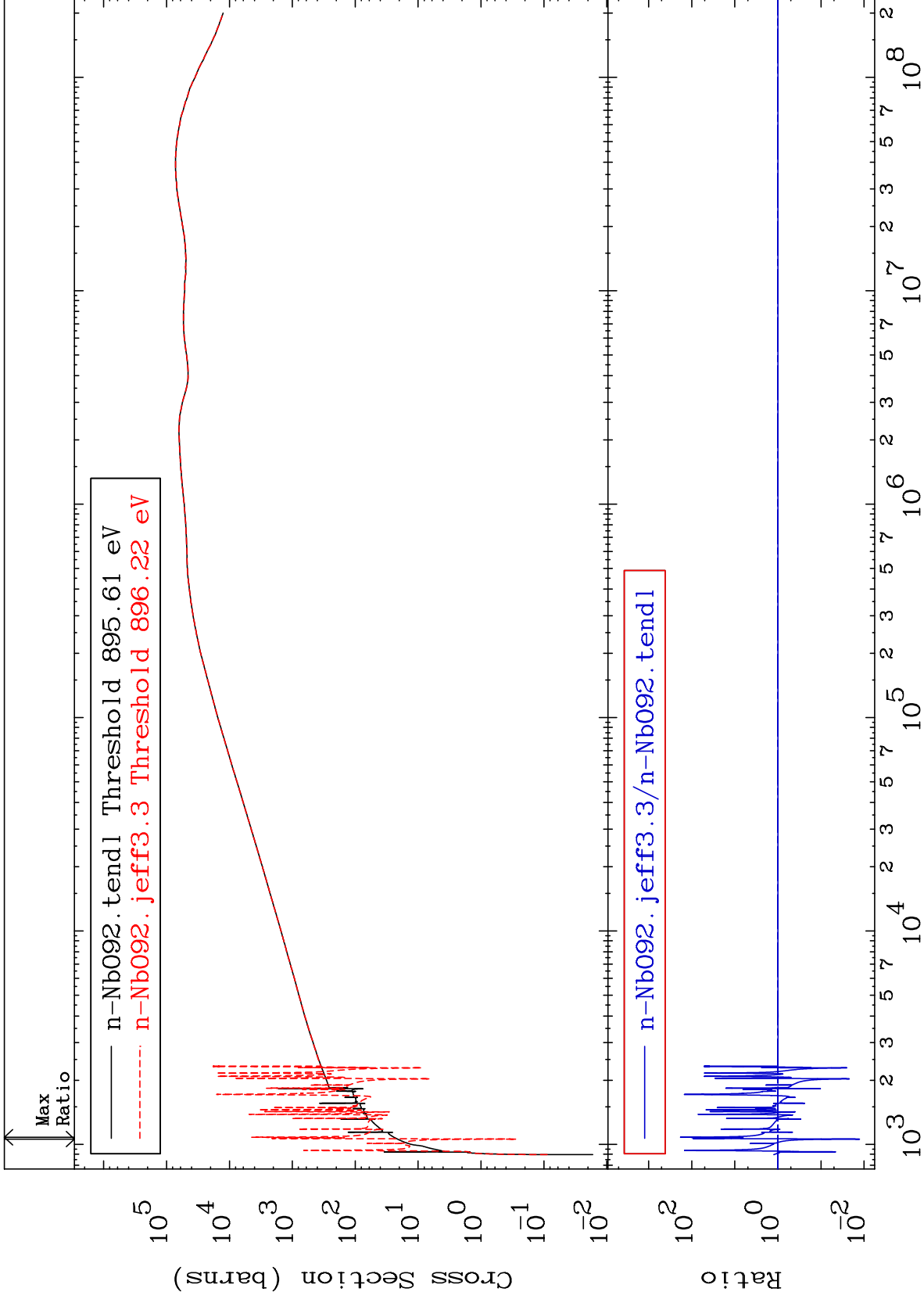




MAT 4122

Dpa elastic (mt2)  
Cross Section

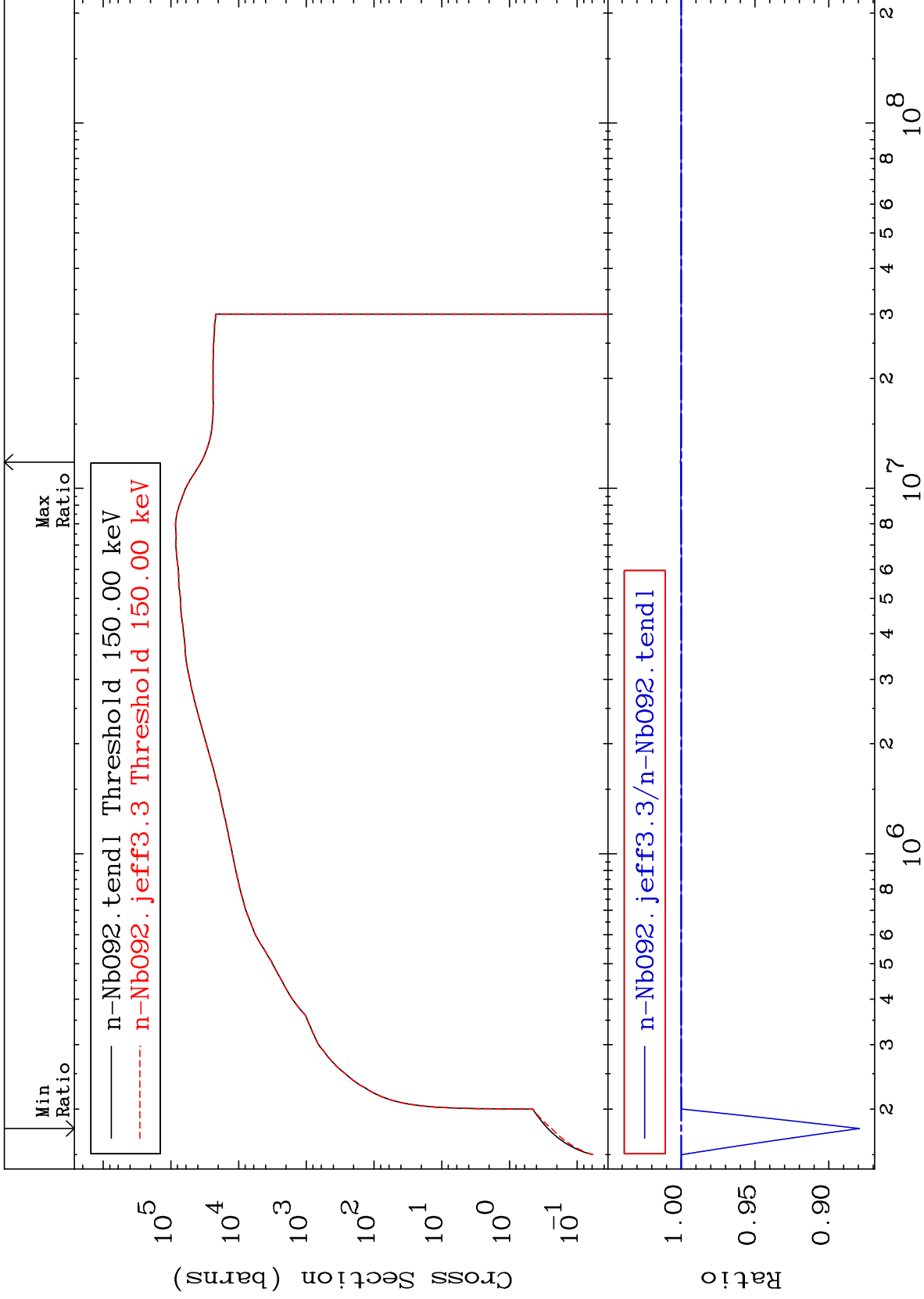
41-Nb-92  
-98.72 To 9999. %

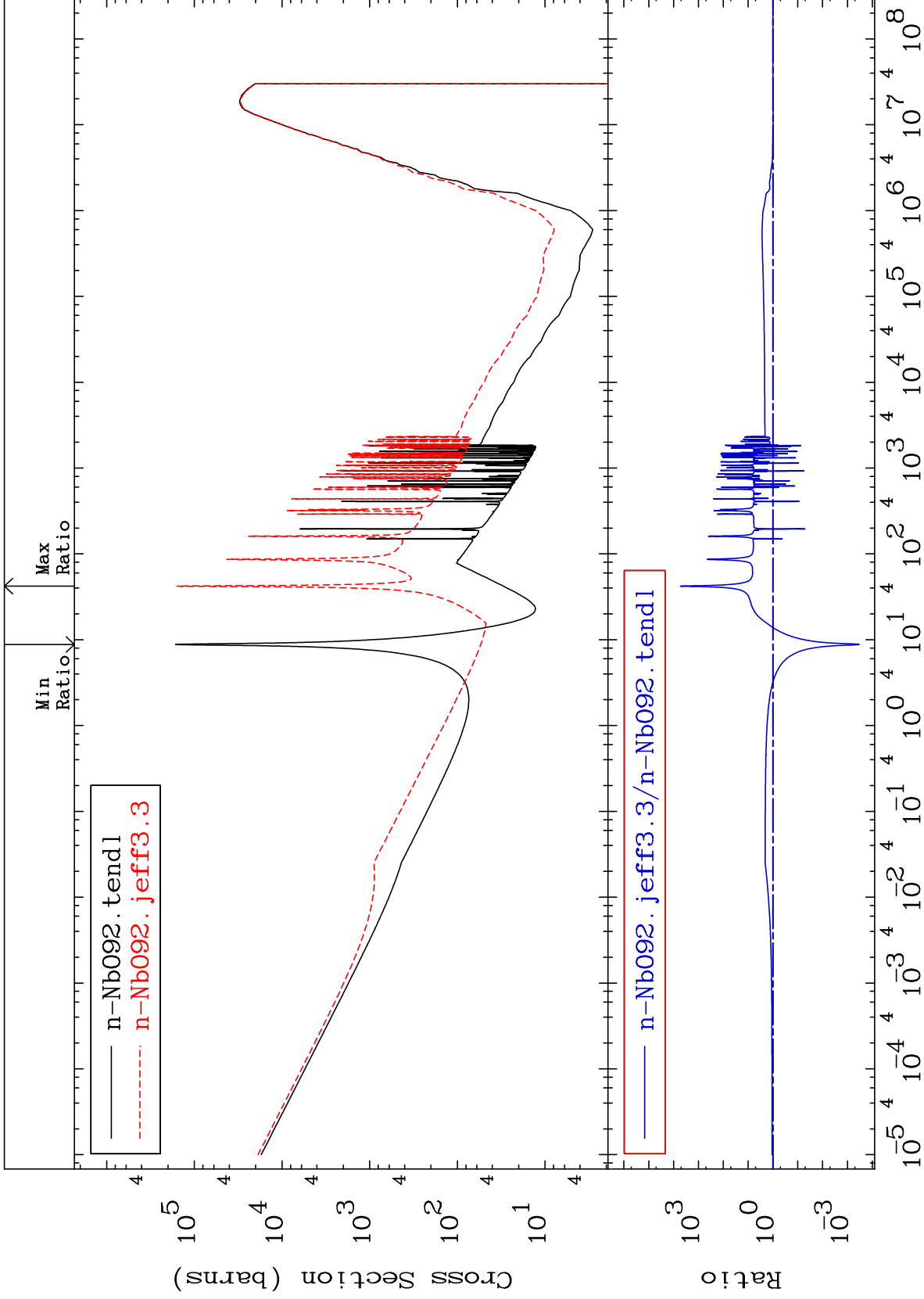


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Incident Energy (eV)

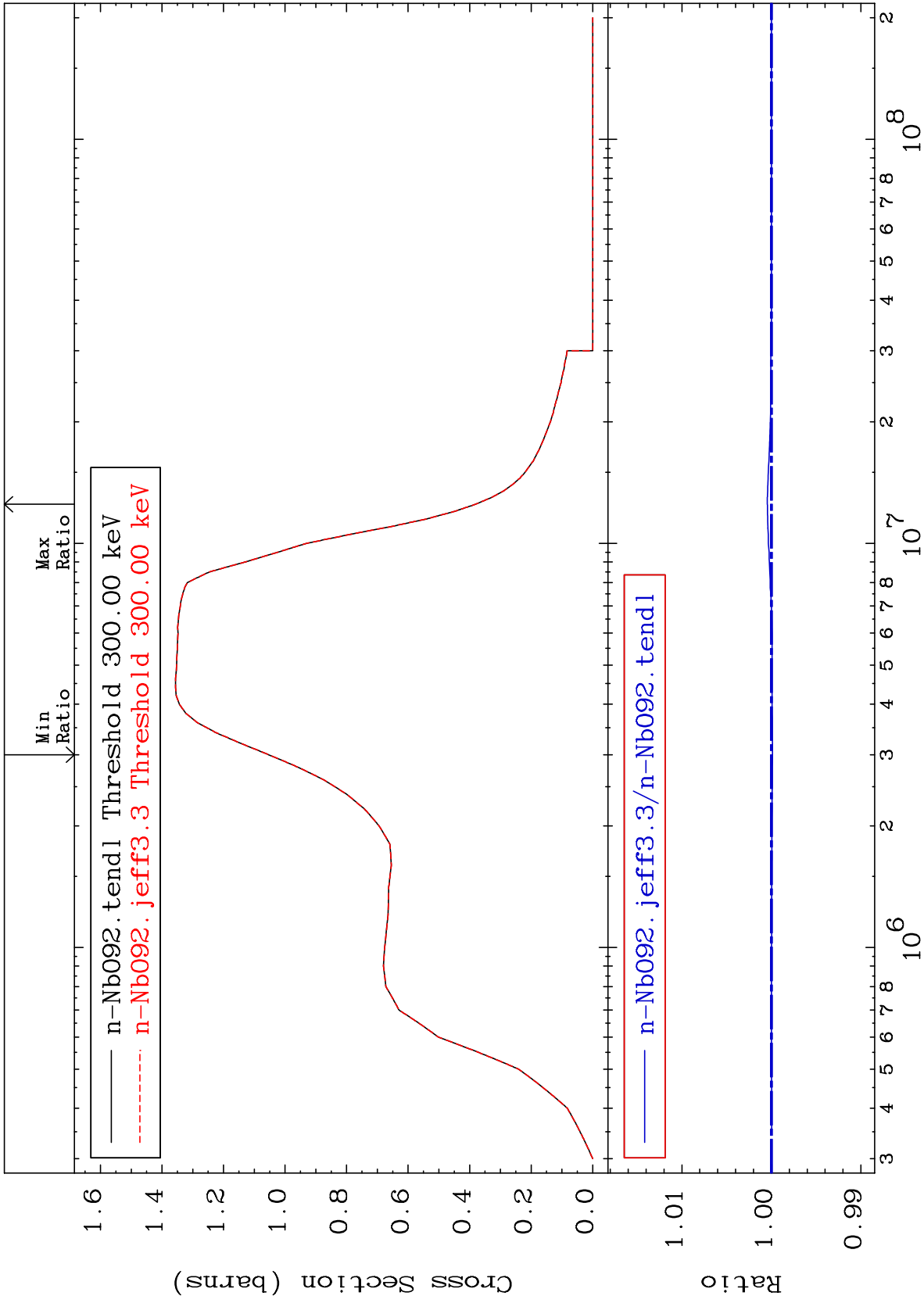
41-Nb-92





MAT 4122

Inelastic: 41-Nb-92g 41-Nb-92  
Radionuclide Production Cross Section -0.011 To 0.045 %



71

Incident Energy (eV)

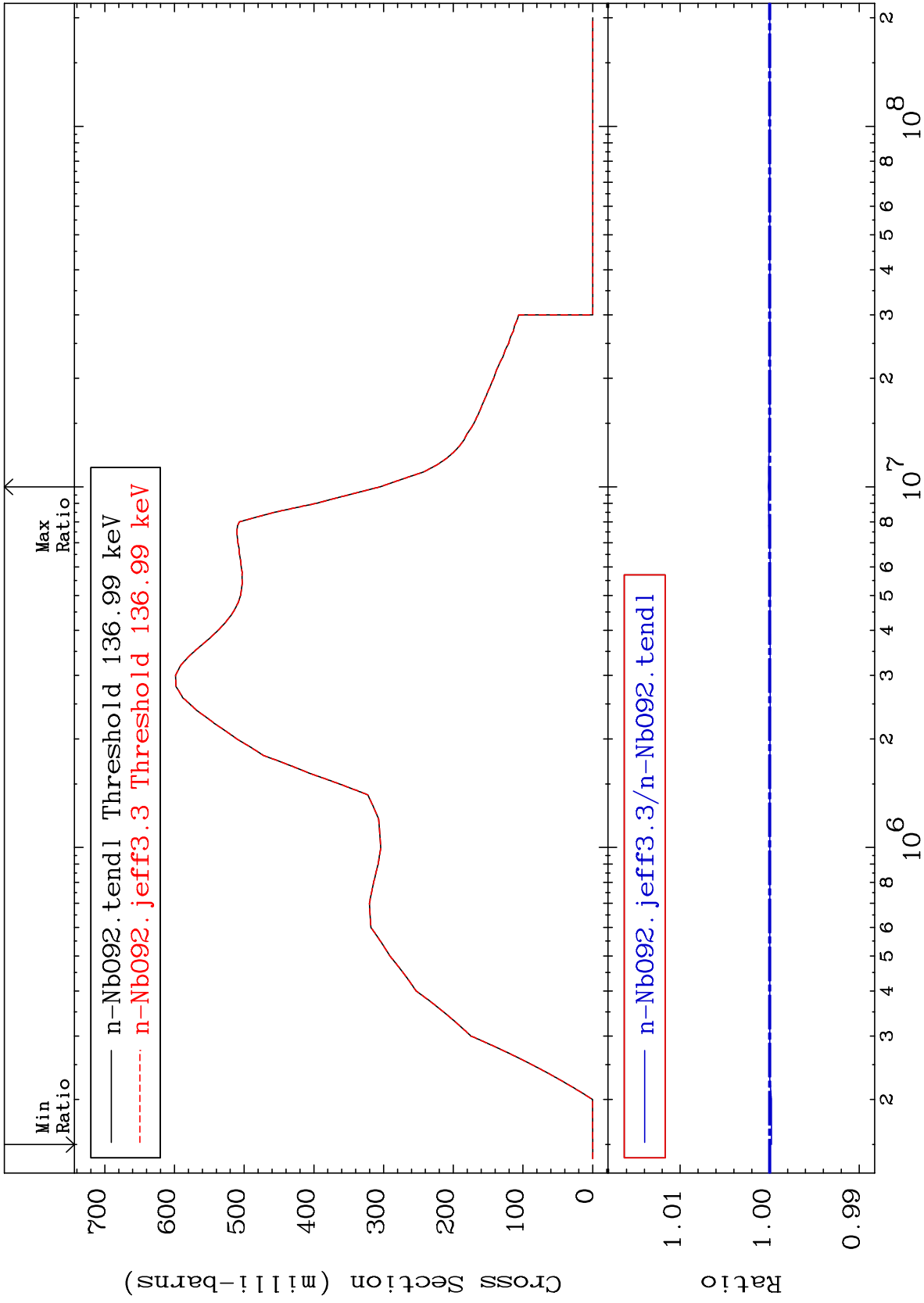
41-Nb-92

MAT 4122

Inelastic:41-Nb-92m1

41-Nb-92

Radionuclide Production Cross Section -0.019 To 0.015 %



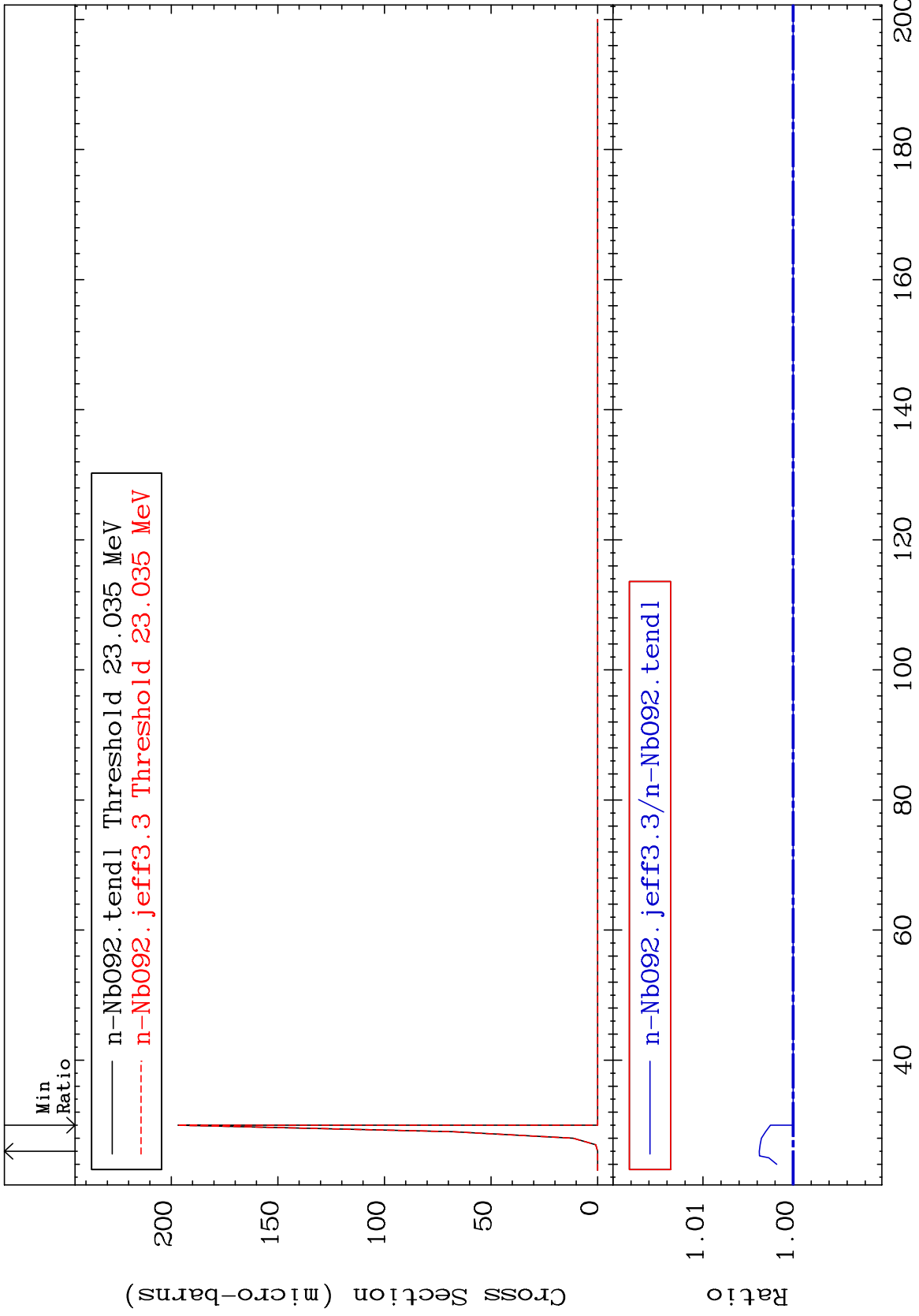


MAT 4122

(n,2n) d:40-Zr-89g

41-Nb-92

Radionuclide Production Cross Section 0.000 To 0.375 %

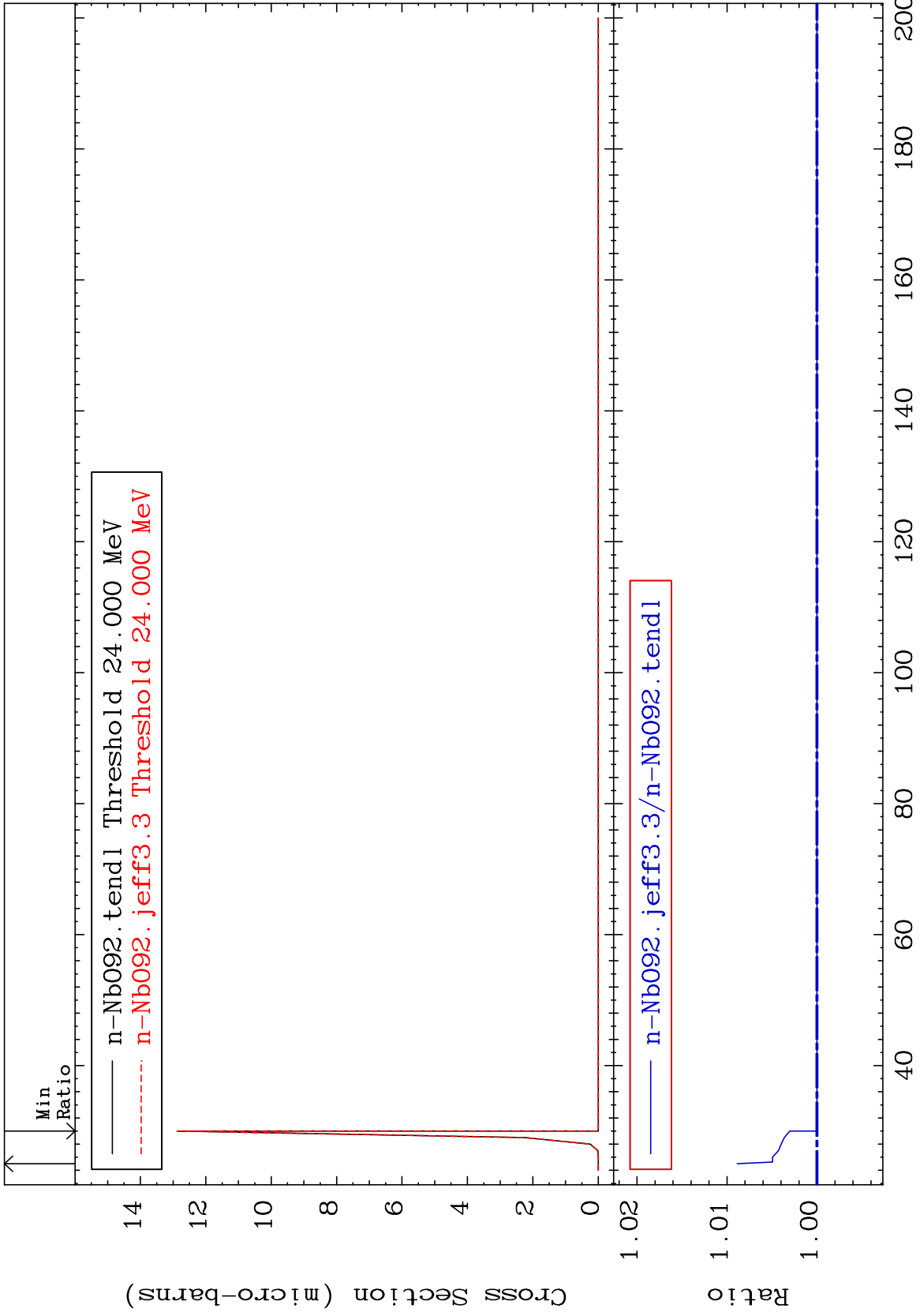


MAT 4122

(n,2n) d:40-Zr-89m1

41-Nb-92

Radionuclide Production Cross Section 0.000 To 0.887 %

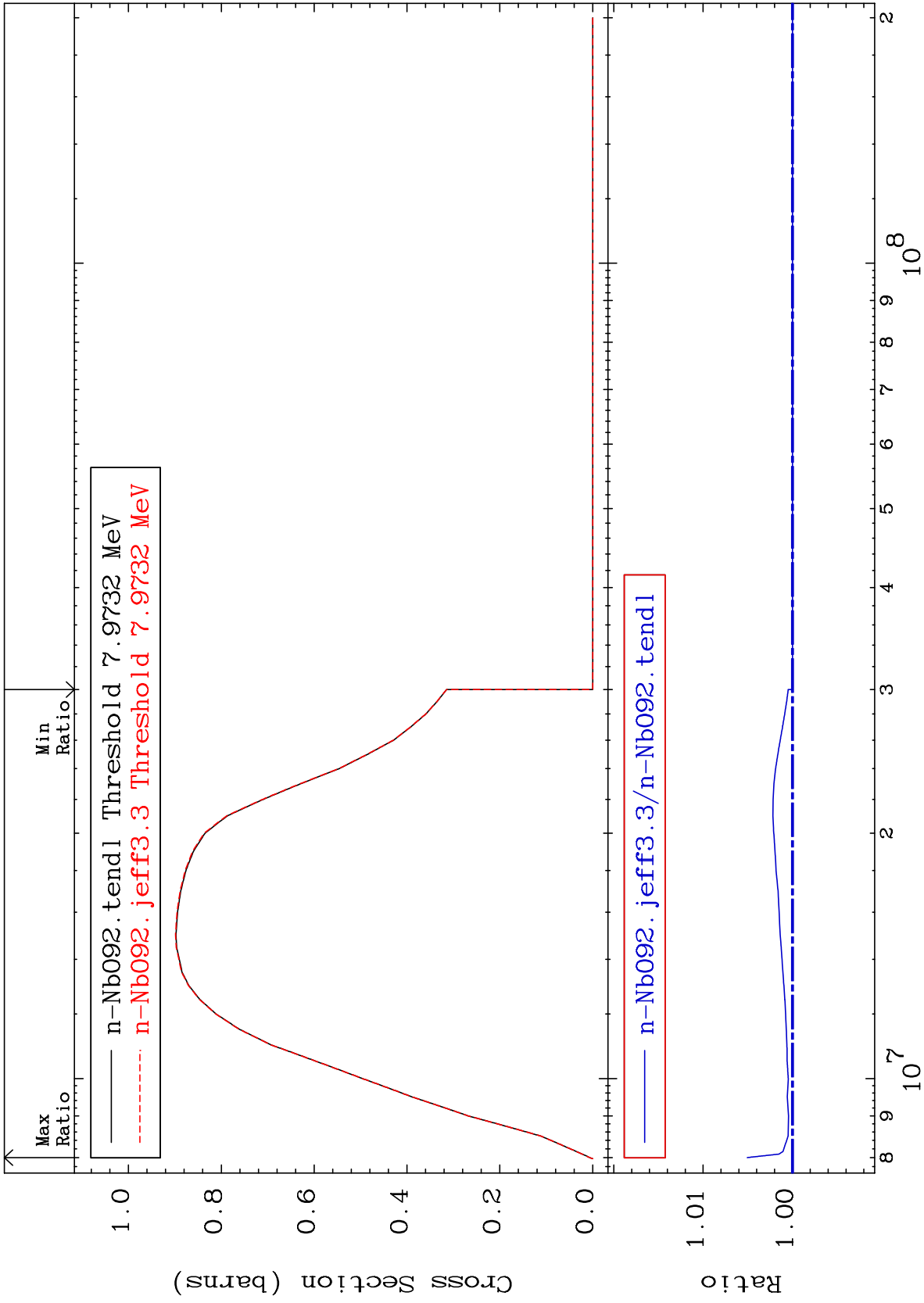


MAT 4122

(n,2n): 41-Nb-91g

41-Nb-92

Radionuclide Production Cross Section 0.000 To 0.505 %



75

Incident Energy (eV)

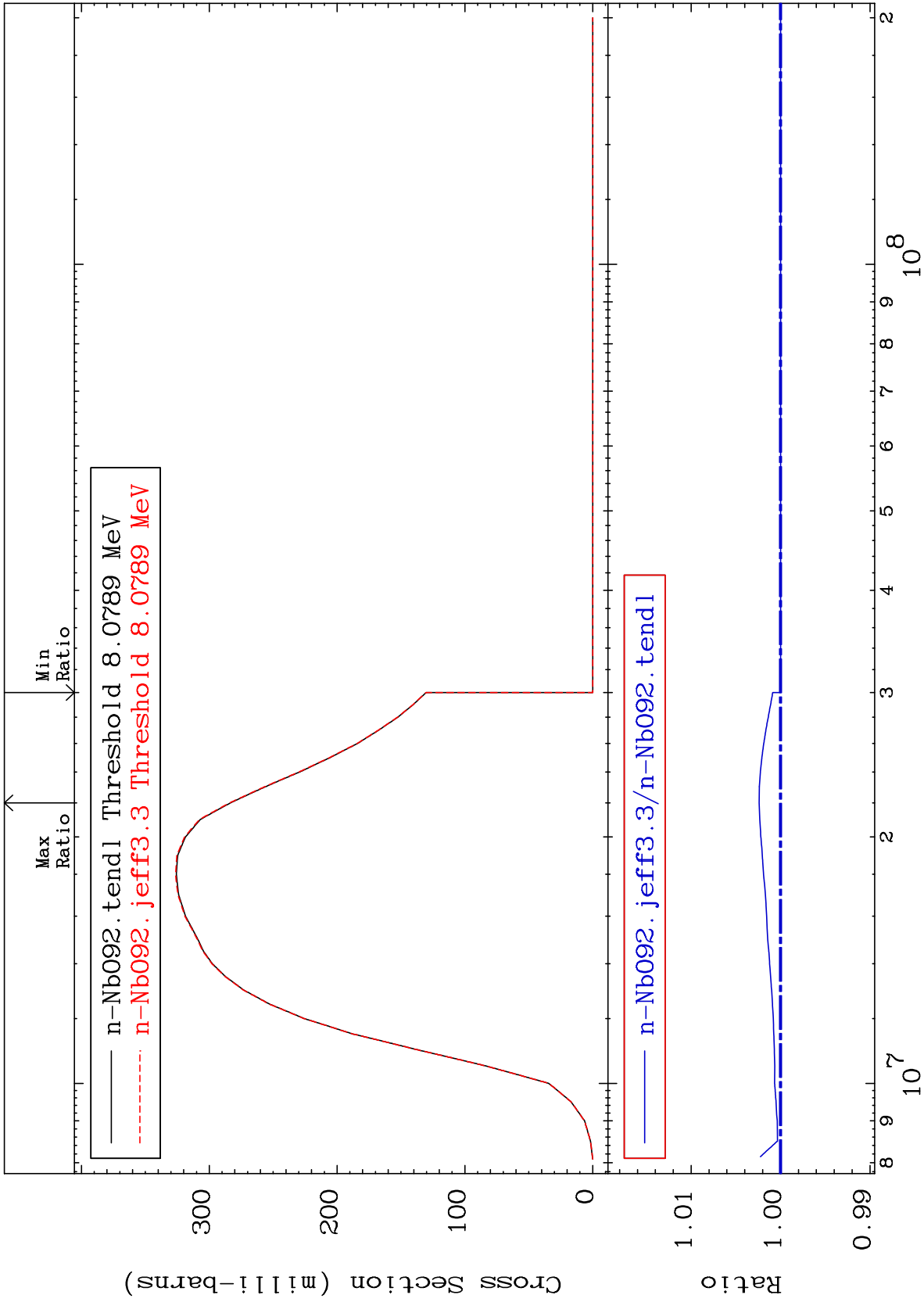
41-Nb-92

MAT 4122

(n,2n):41-Nb-91m1

41-Nb-92

Radionuclide Production Cross Section 0.000 To 0.238 %



76

Incident Energy (eV)

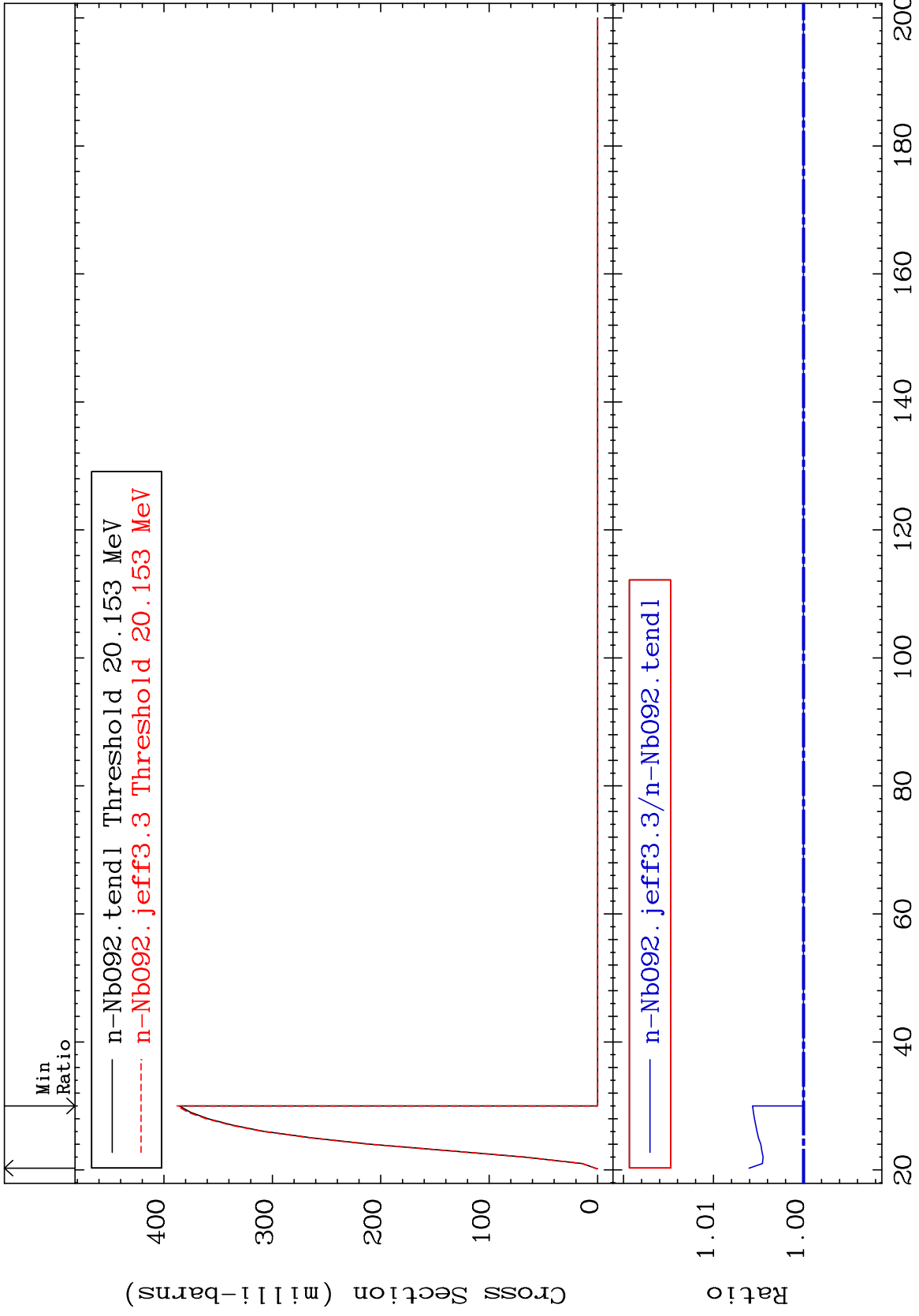
41-Nb-92

MAT 4122

(n,3n):41-Nb-90g

41-Nb-92

Radionuclide Production Cross Section 0.000 To 0.607 %



77

Incident Energy (MeV)

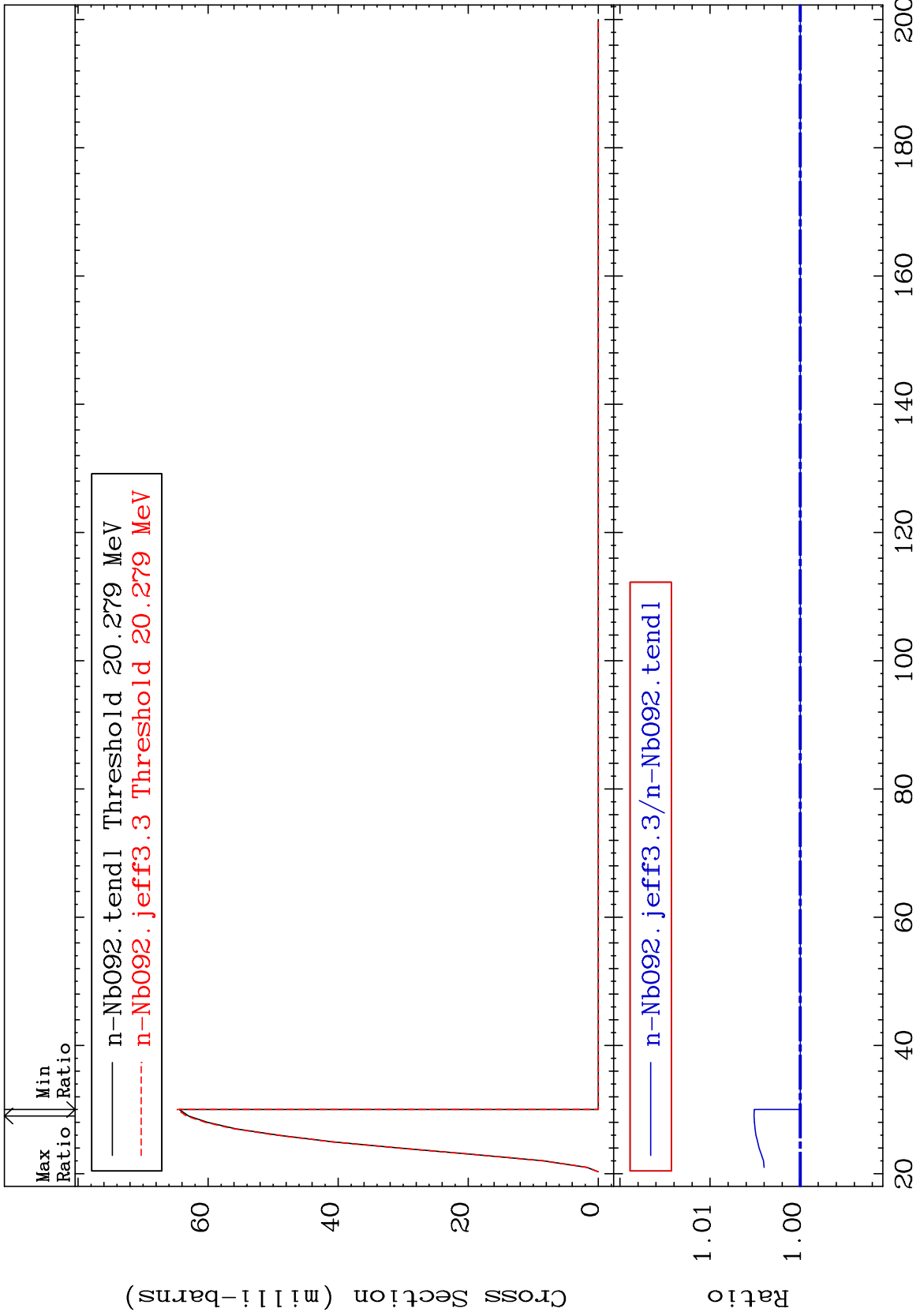
41-Nb-92

MAT 4122

(n,3n):41-Nb-90m2

41-Nb-92

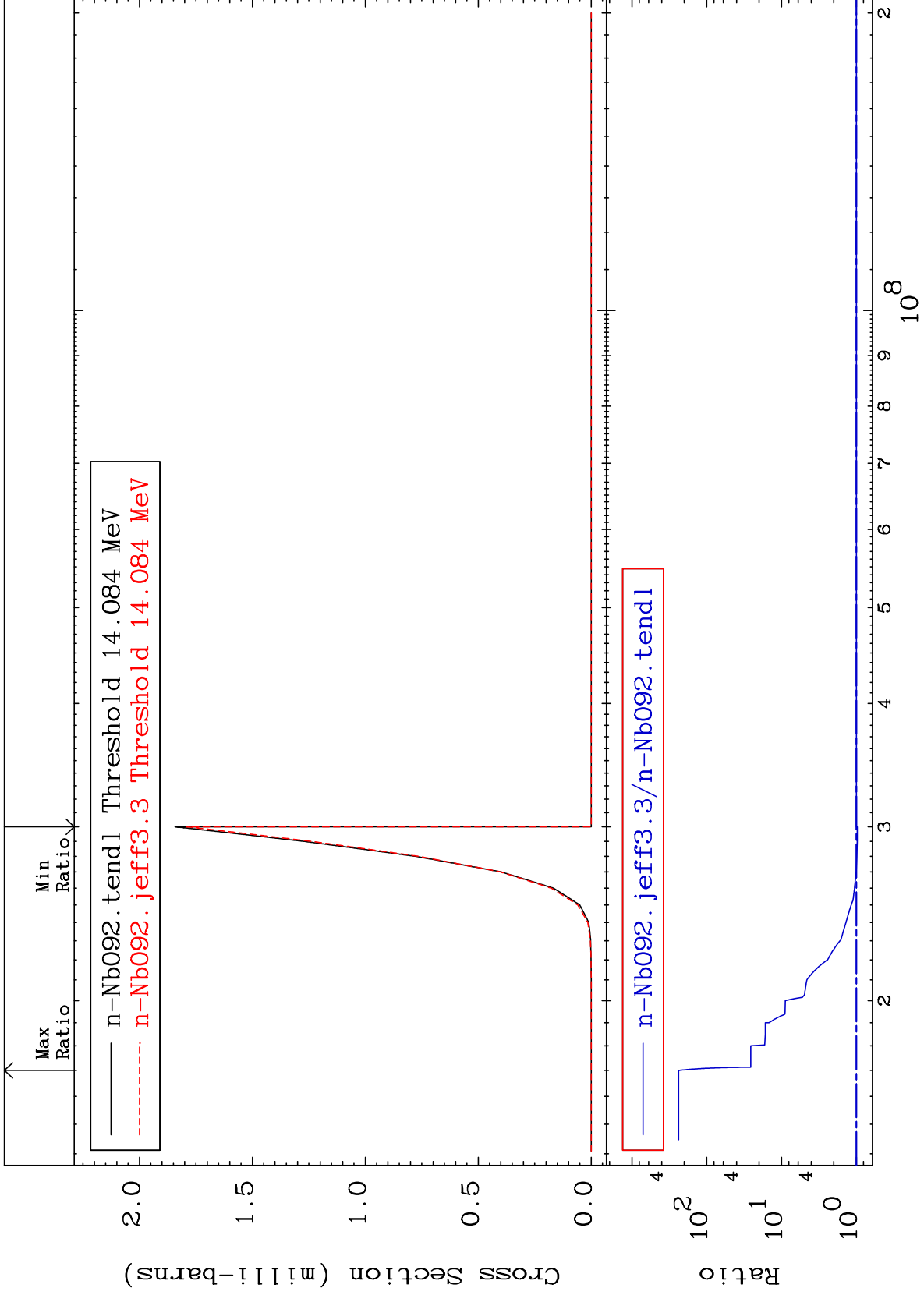
Radionuclide Production Cross Section 0.000 To 0.513 %



78

Incident Energy (MeV)

41-Nb-92

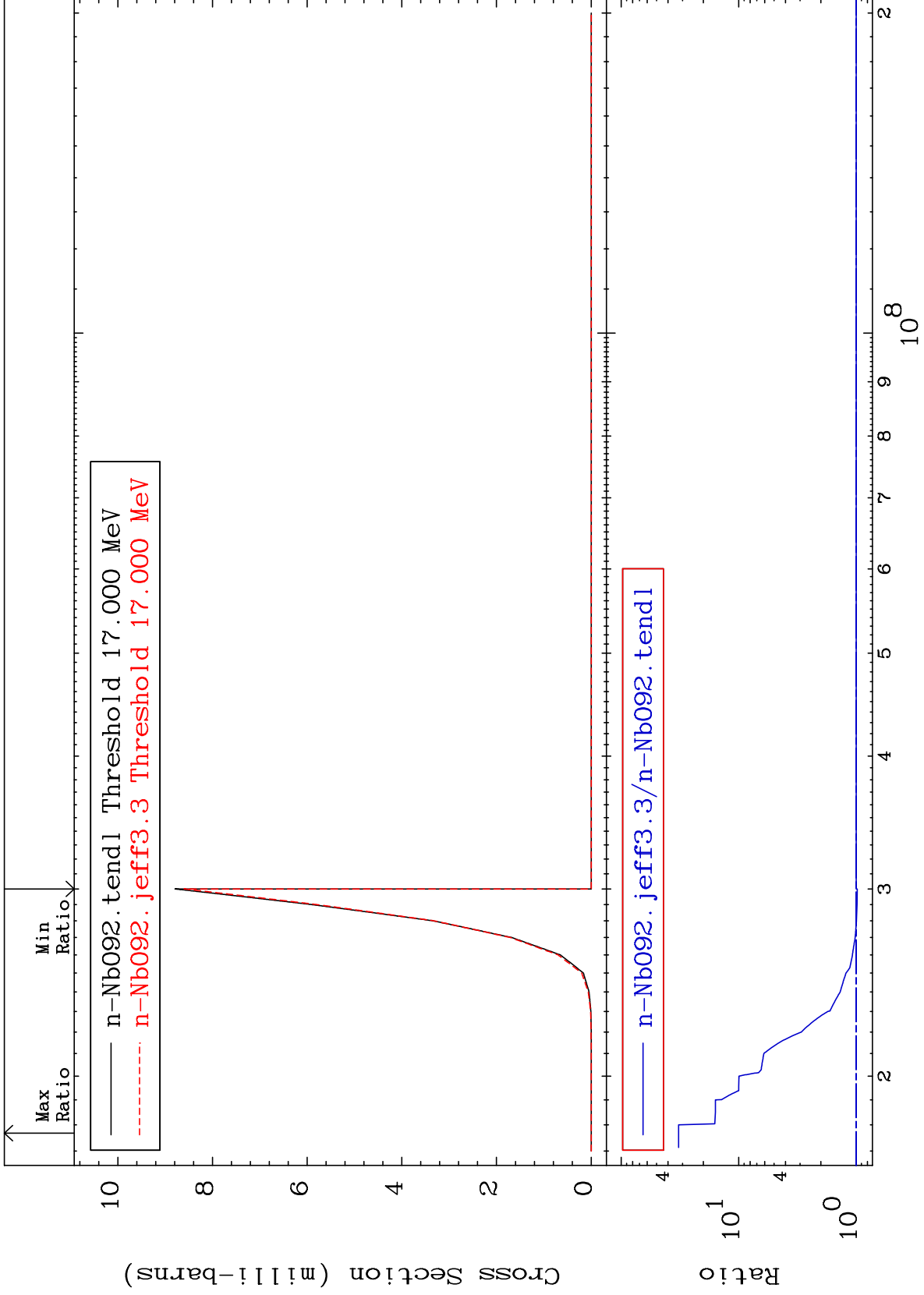


MAT 4122

(n,2n)  $\alpha$ :39-Y -87m1

41-Nb-92

Radionuclide Production Cross Section -2.224 To 3144. %

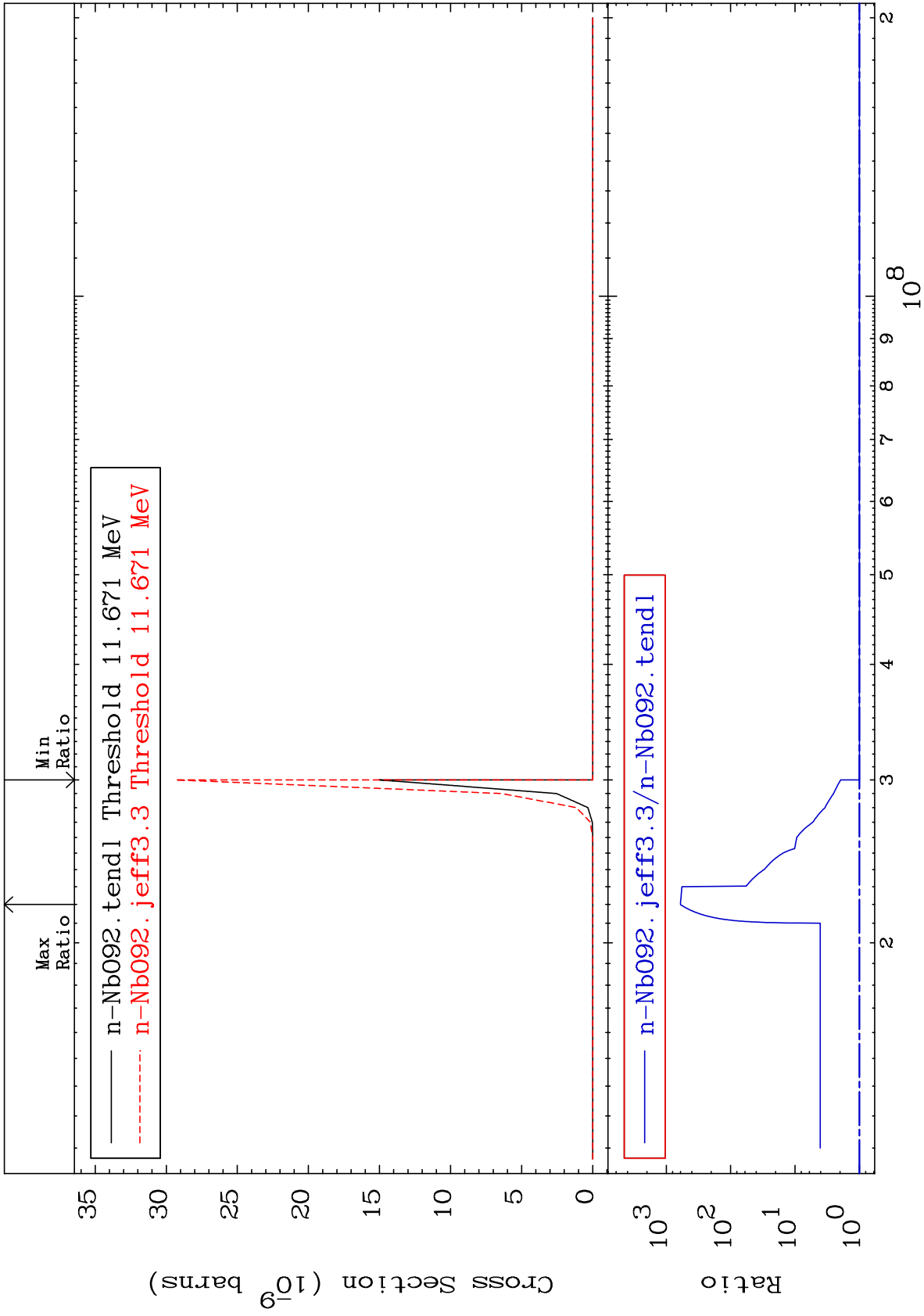


80

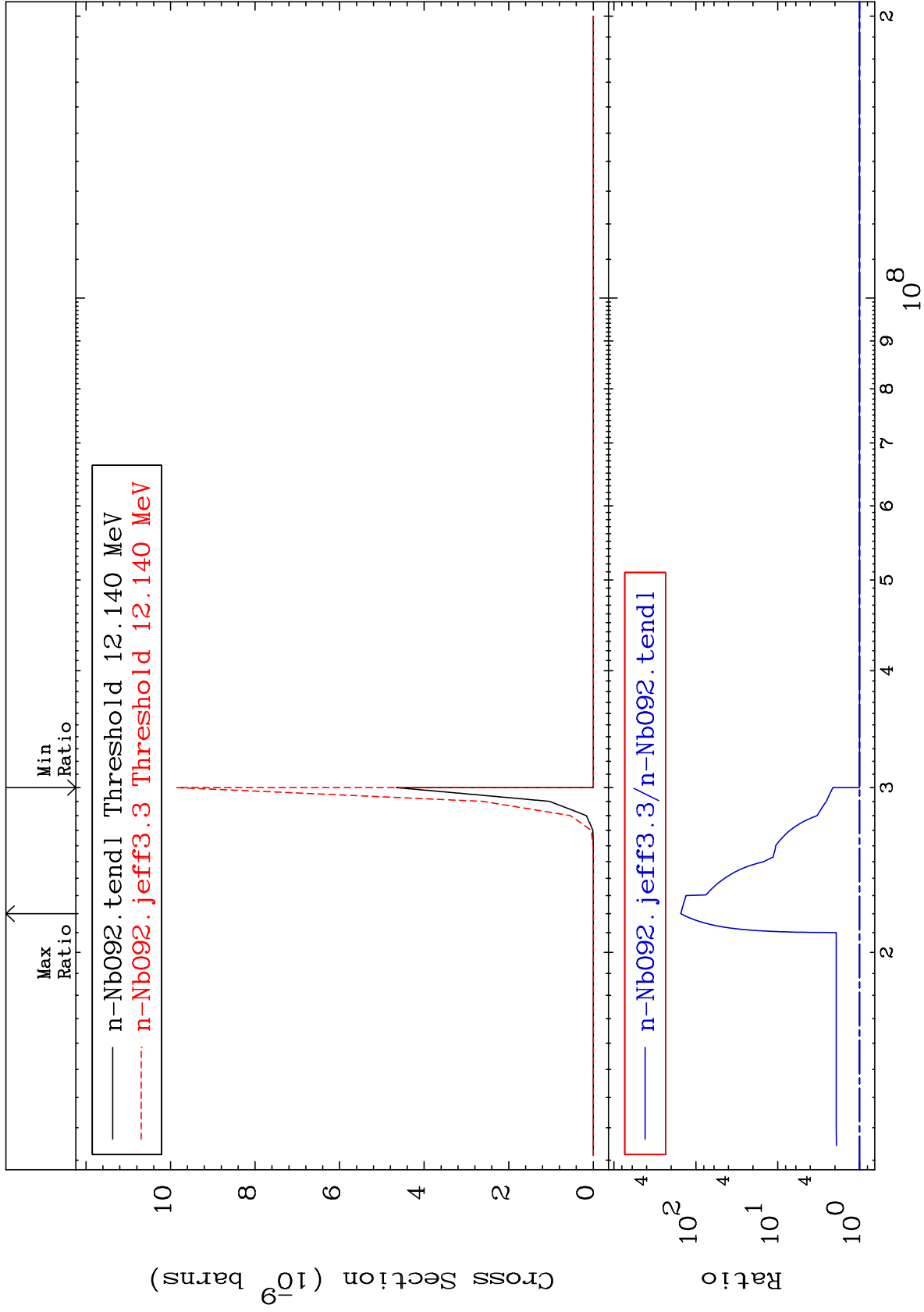
Incident Energy (eV)

41-Nb-92





Radionuclide Production Cross Section 0.000 To 9999. %

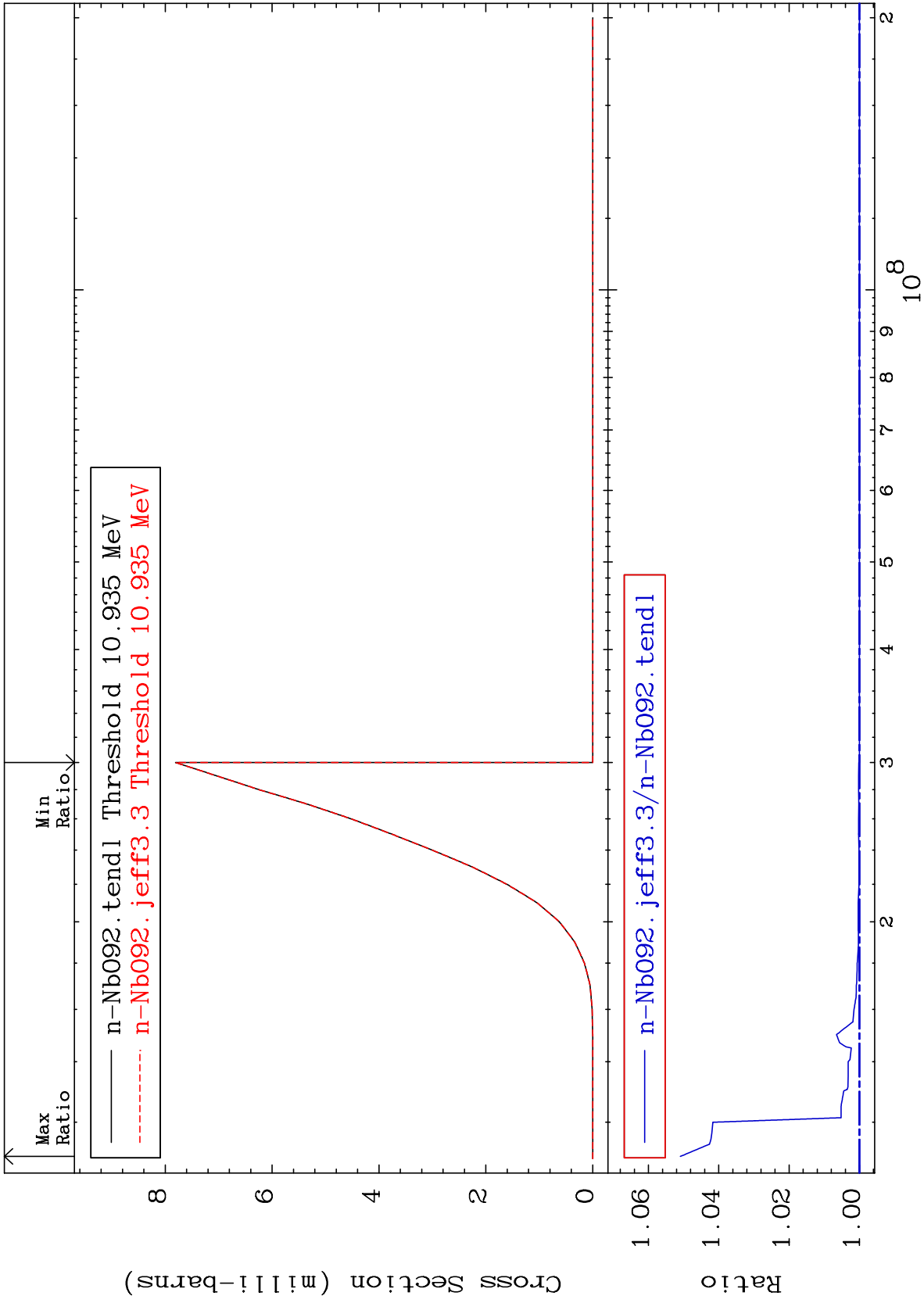


MAT 4122

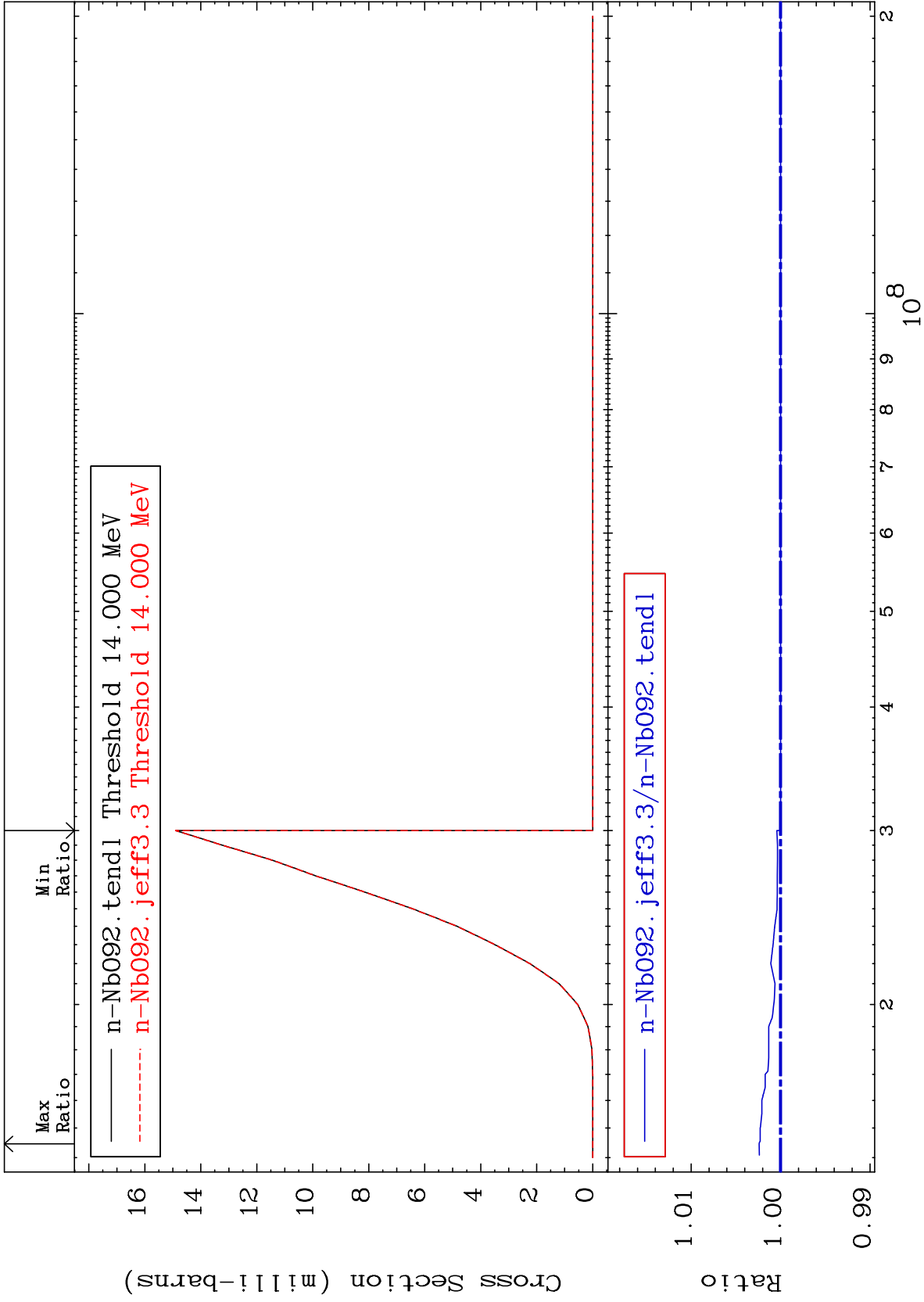
(n, n') d:40-Zr-90g

41-Nb-92

Radionuclide Production Cross Section 0.000 To 5.092 %



Radionuclide Production Cross Section 0.000 To 0.238 %

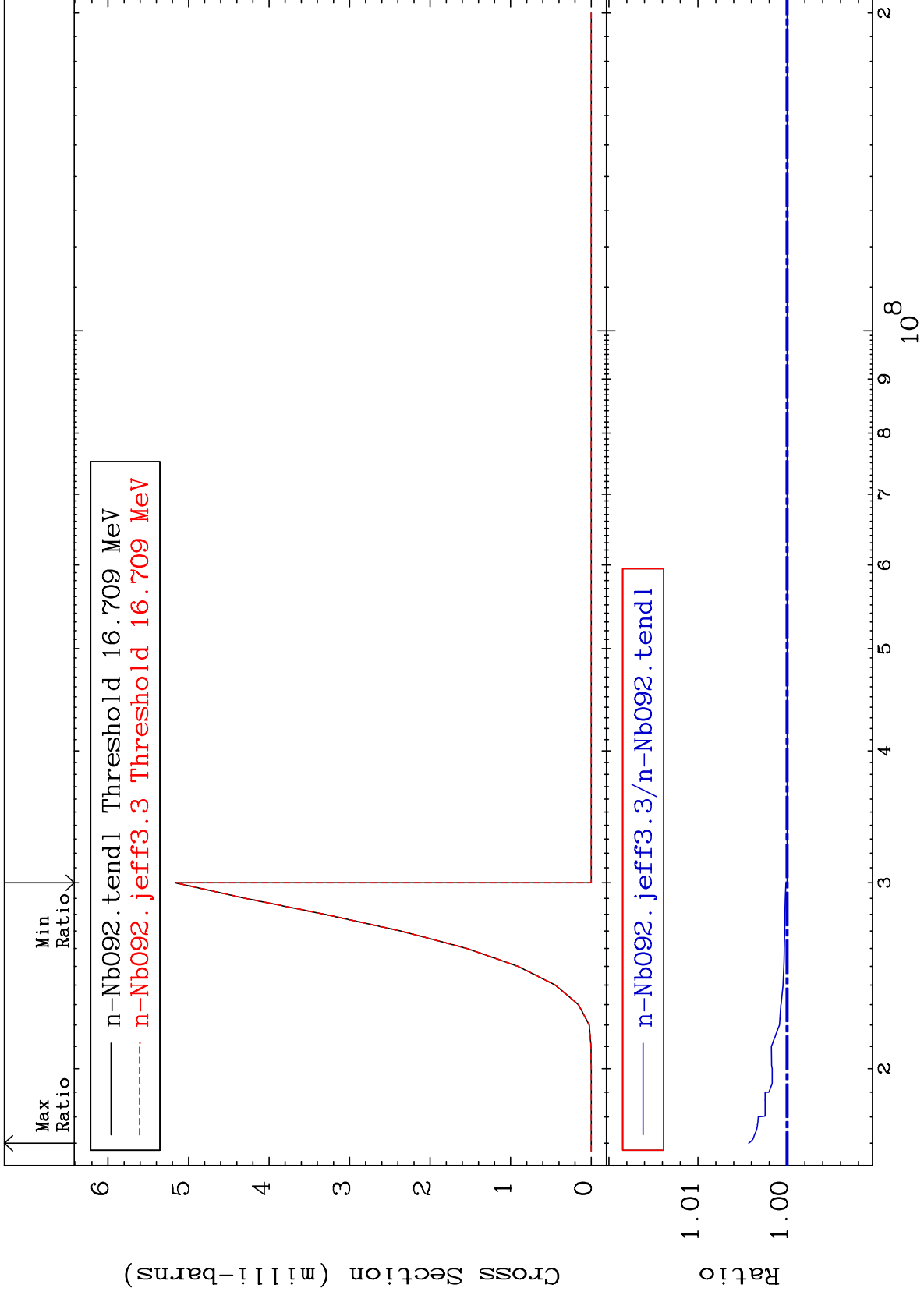


MAT 4122

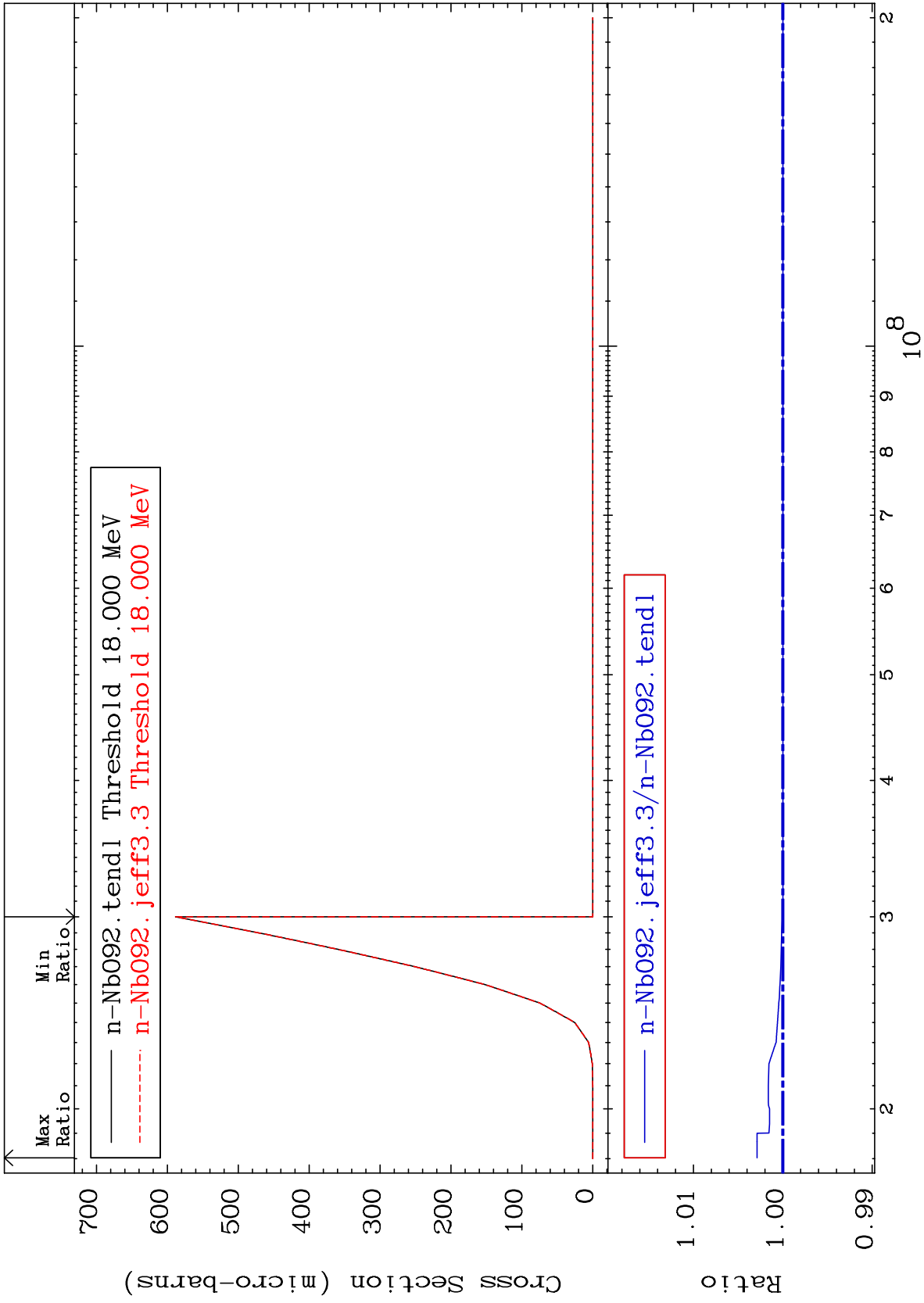
(n, n') t:40-Zr-89g

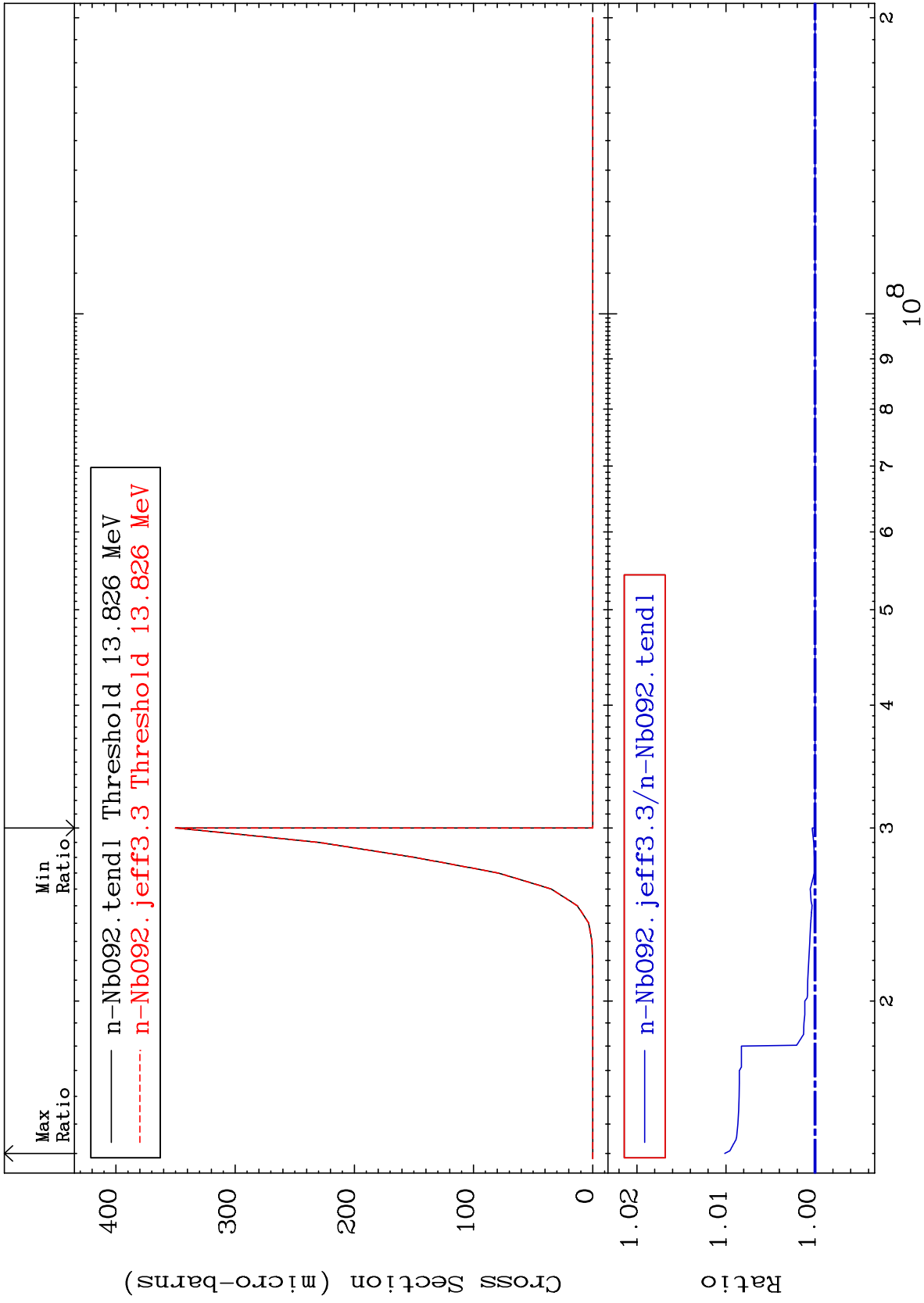
41-Nb-92

Radionuclide Production Cross Section 0.000 To 0.430 %

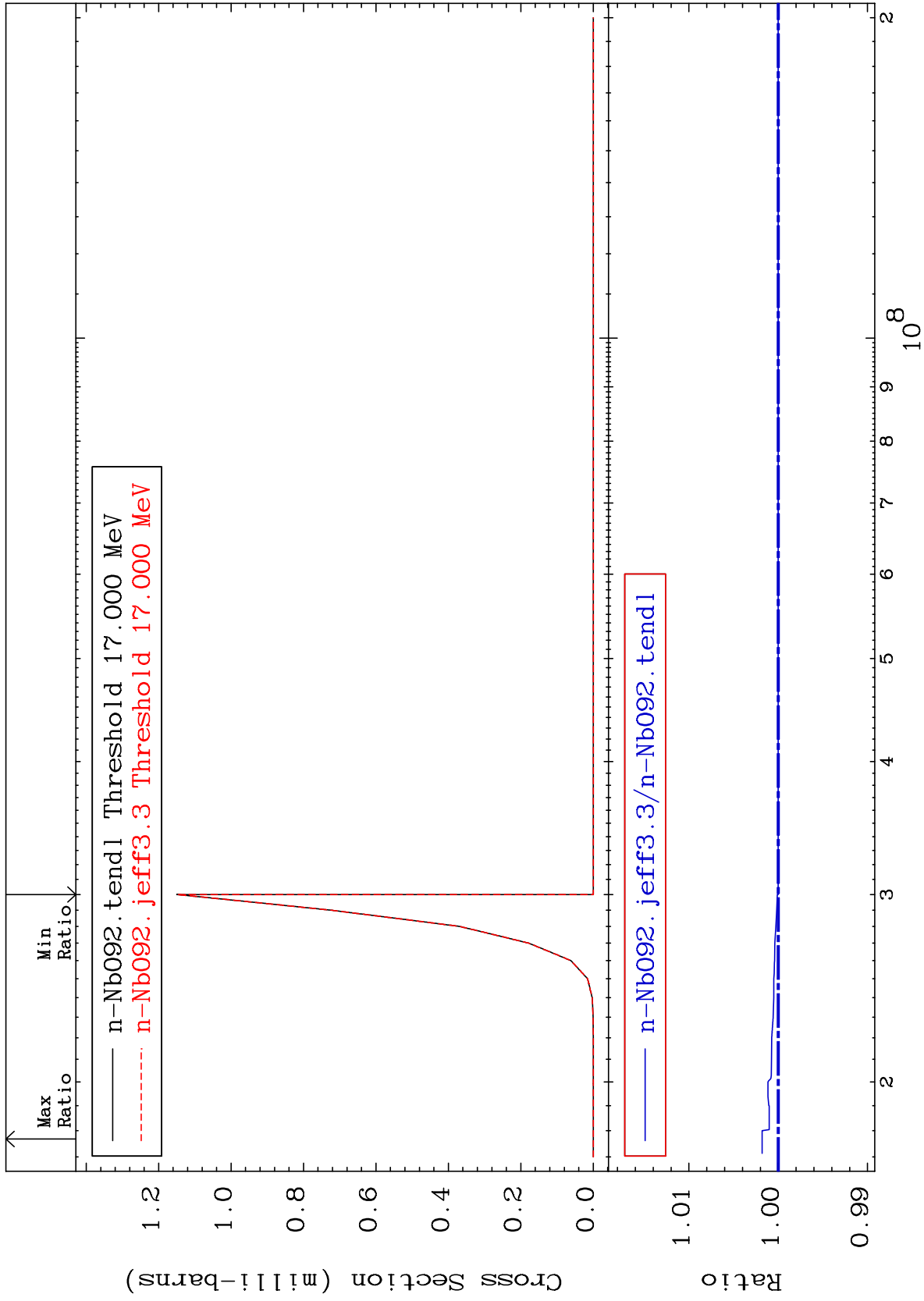


Radionuclide Production Cross Section 0.000 To 0.289 %





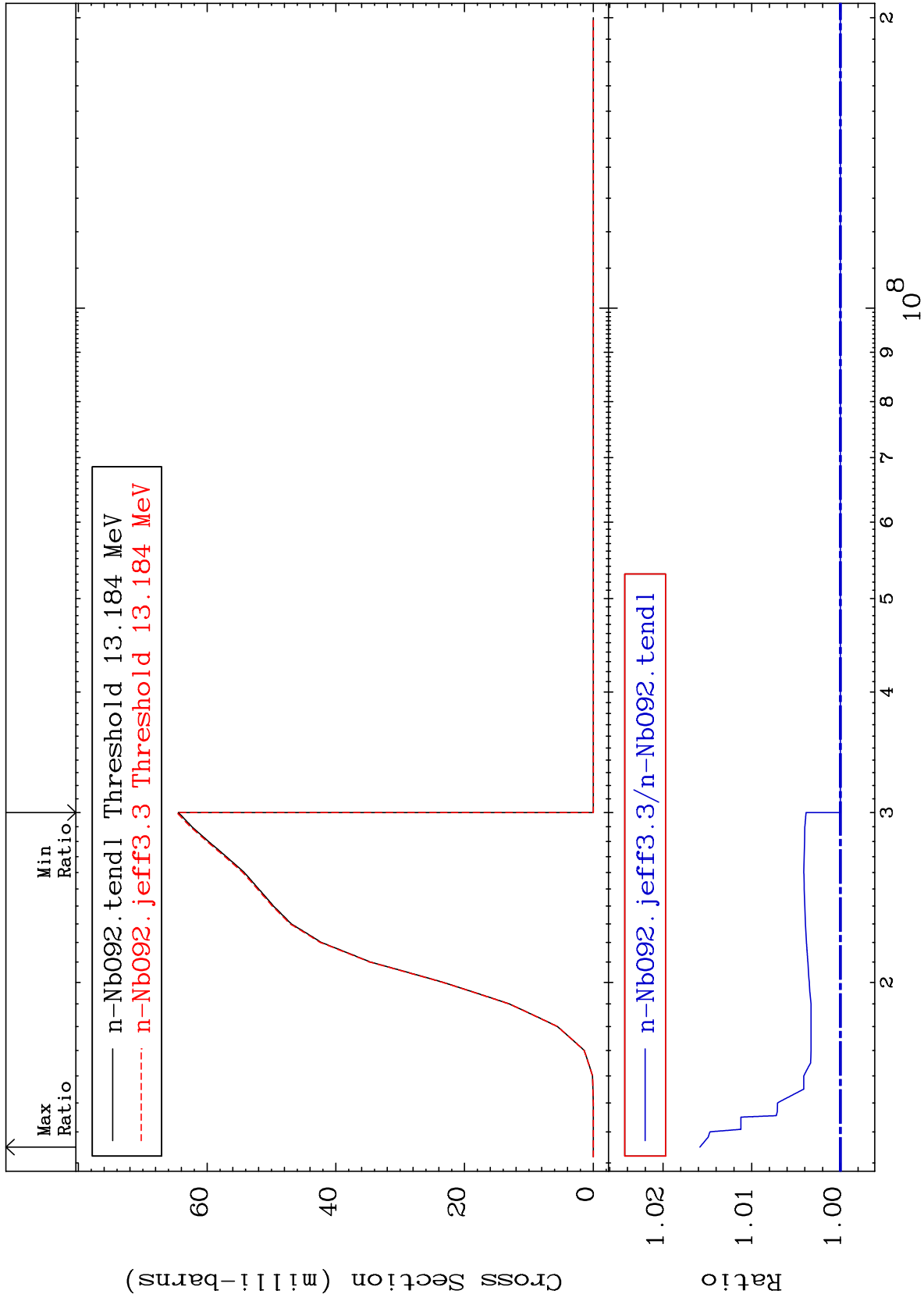
Radionuclide Production Cross Section 0.000 To 0.181 %





MAT 4122

(n,2n) p:40-Zr-90g 41-Nb-92  
Radionuclide Production Cross Section 0.000 To 1.583 %

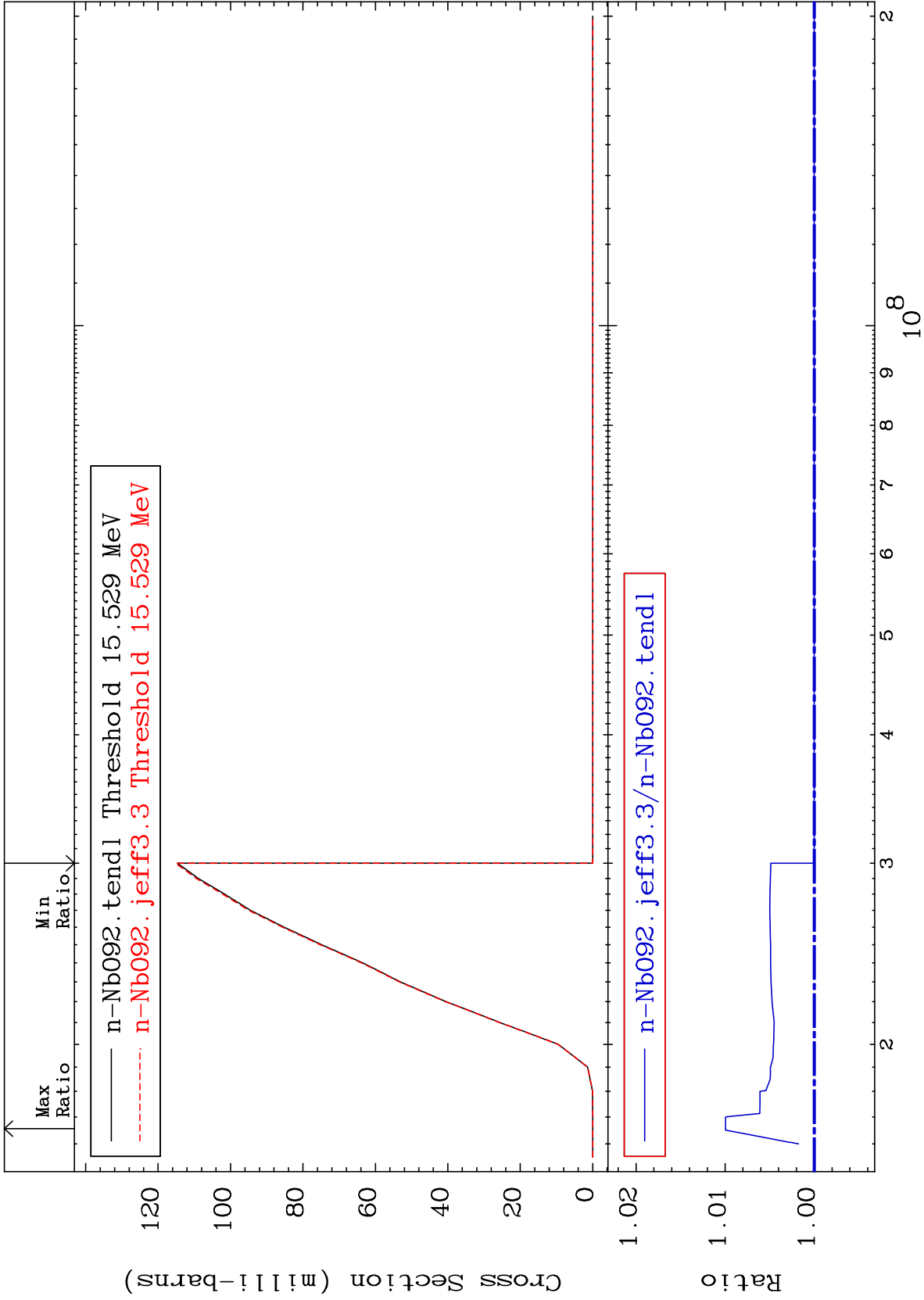


MAT 4122

(n,2n) p:40-Zr-90m3

41-Nb-92

Radionuclide Production Cross Section 0.000 To 0.996 %



90

Incident Energy (eV)

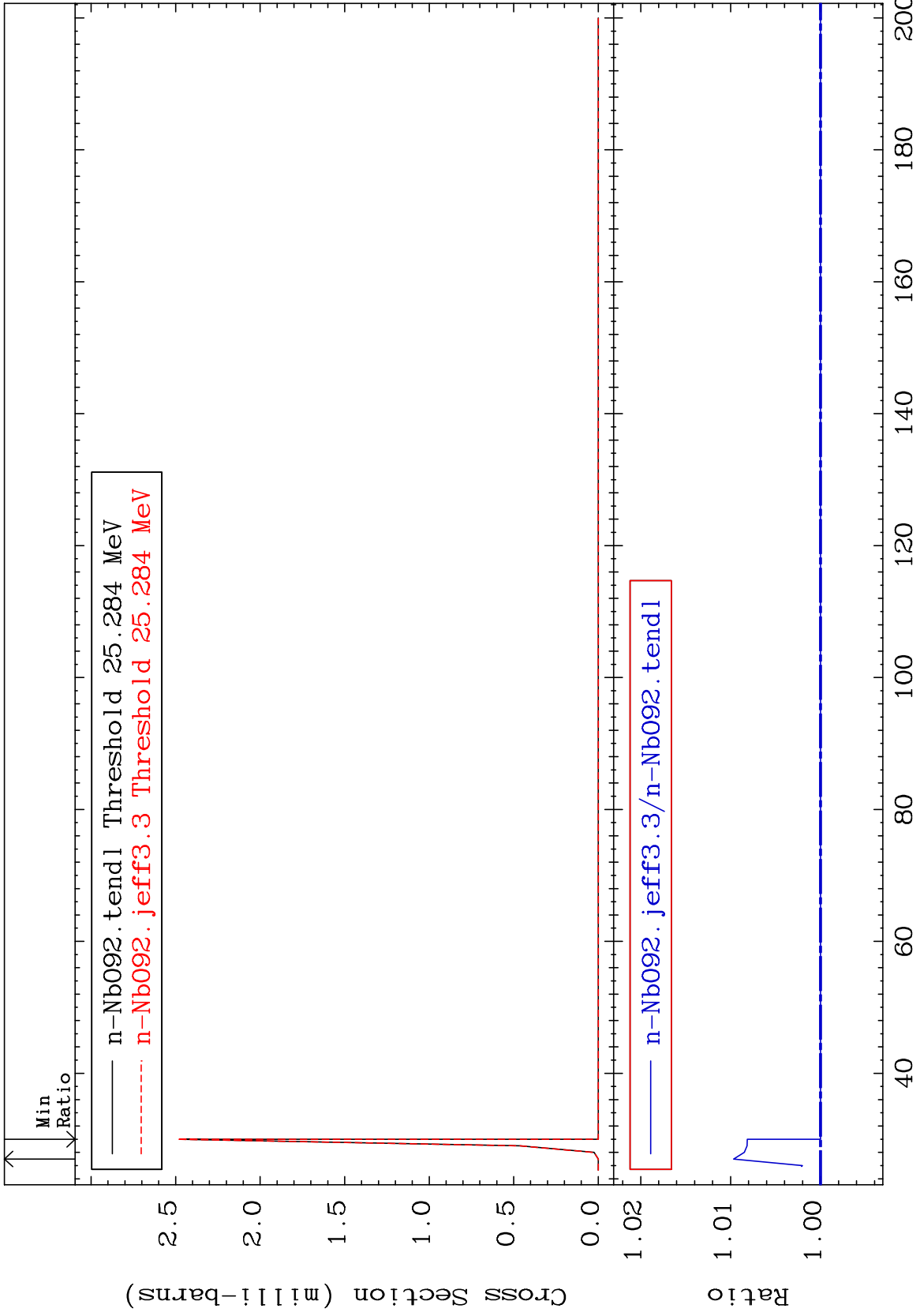
41-Nb-92

MAT 4122

(n,3n) p:40-Zr-89g

41-Nb-92

Radionuclide Production Cross Section 0.000 To 0.967 %

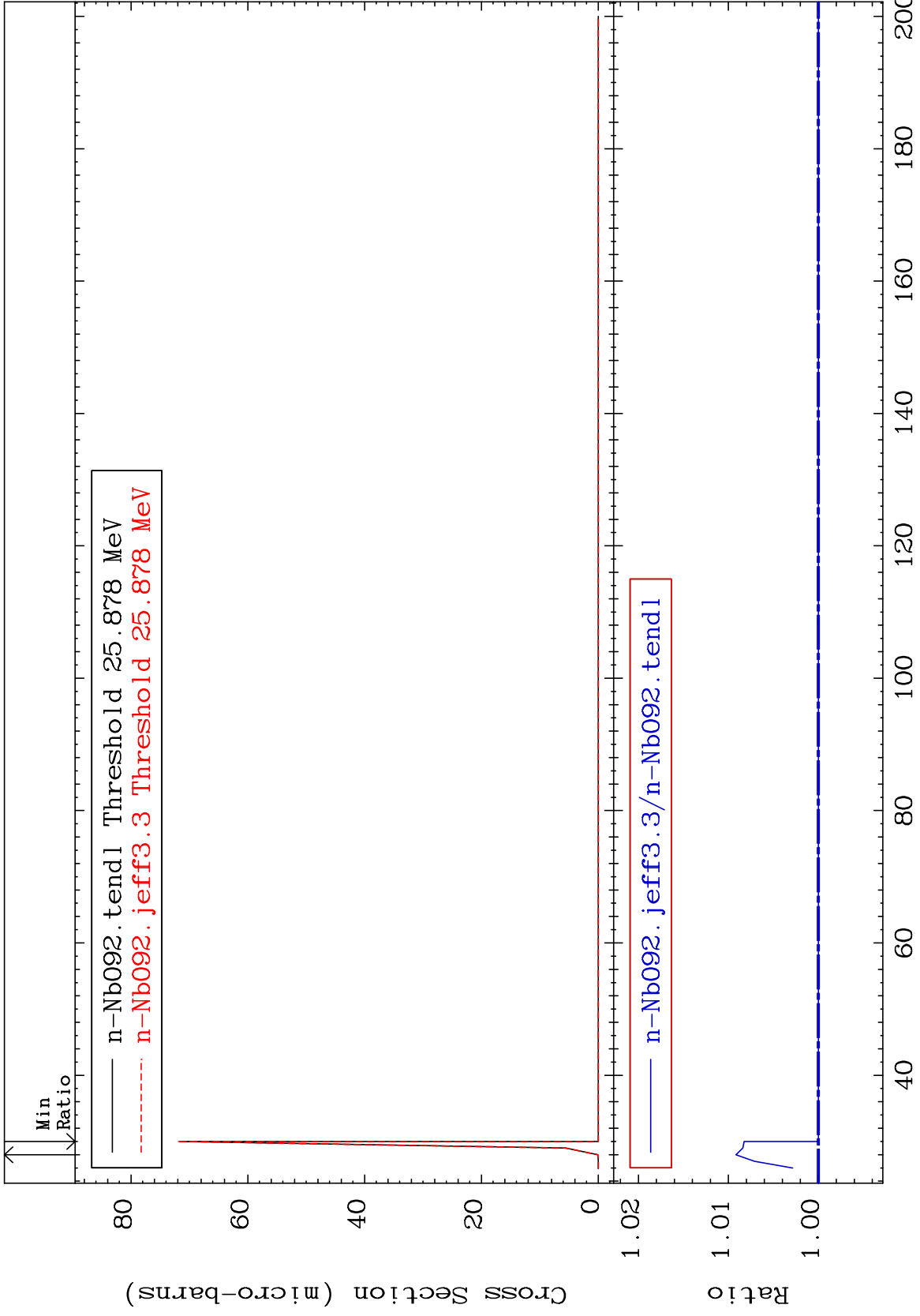


MAT 4122

(n,3n) p:40-Zr-89m1

41-Nb-92

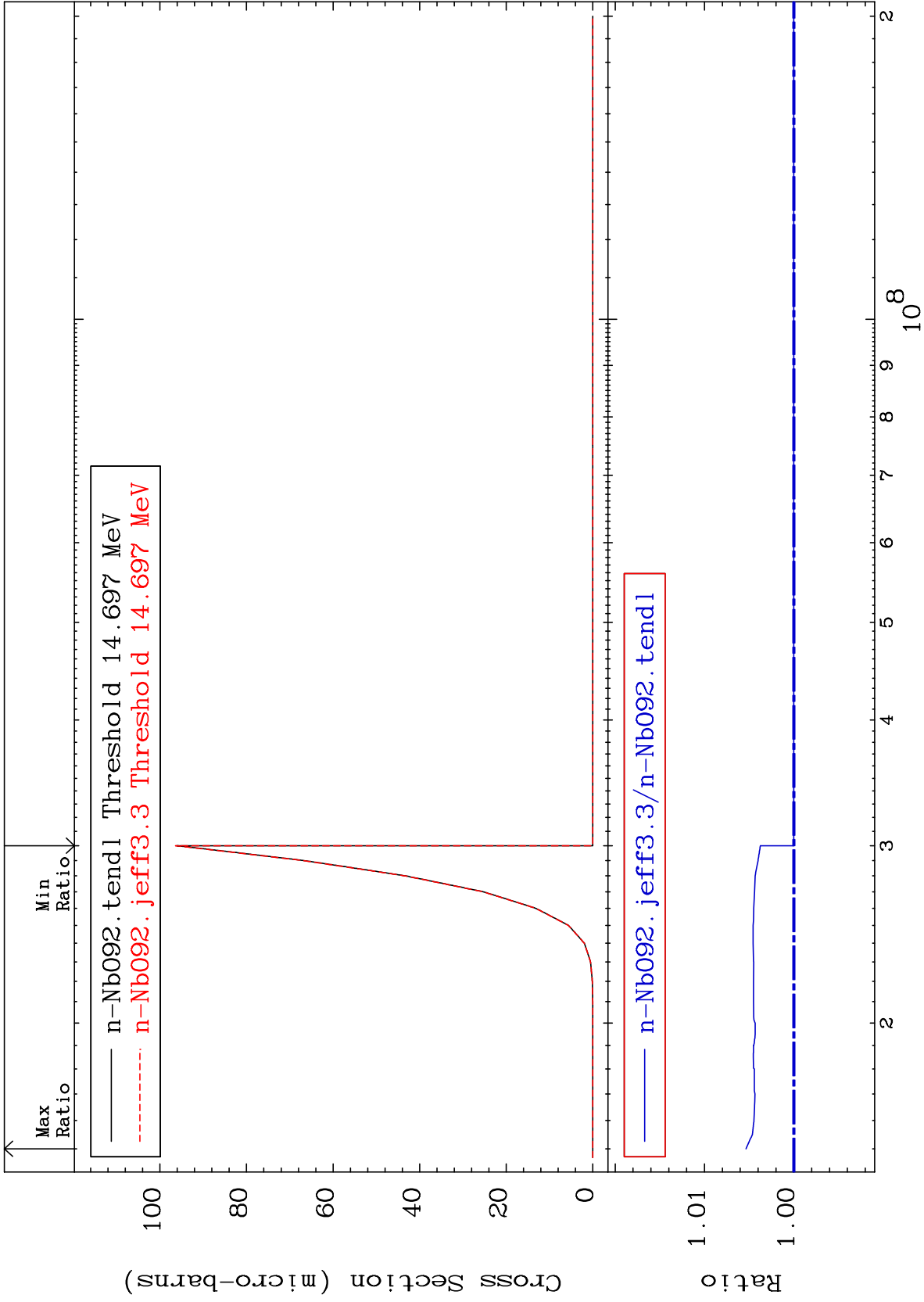
Radionuclide Production Cross Section 0.000 To 0.917 %



92

Incident Energy (MeV)

41-Nb-92

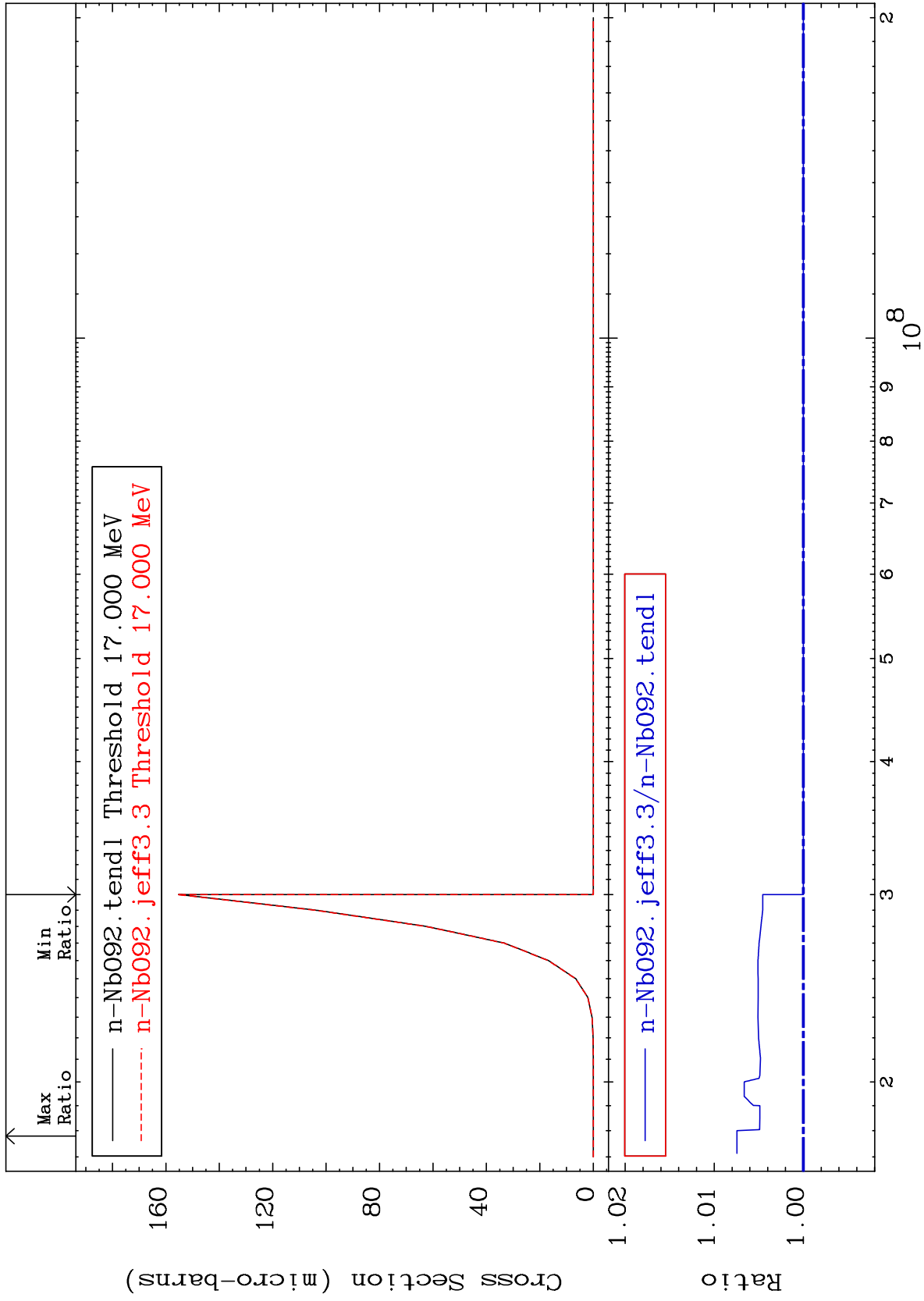


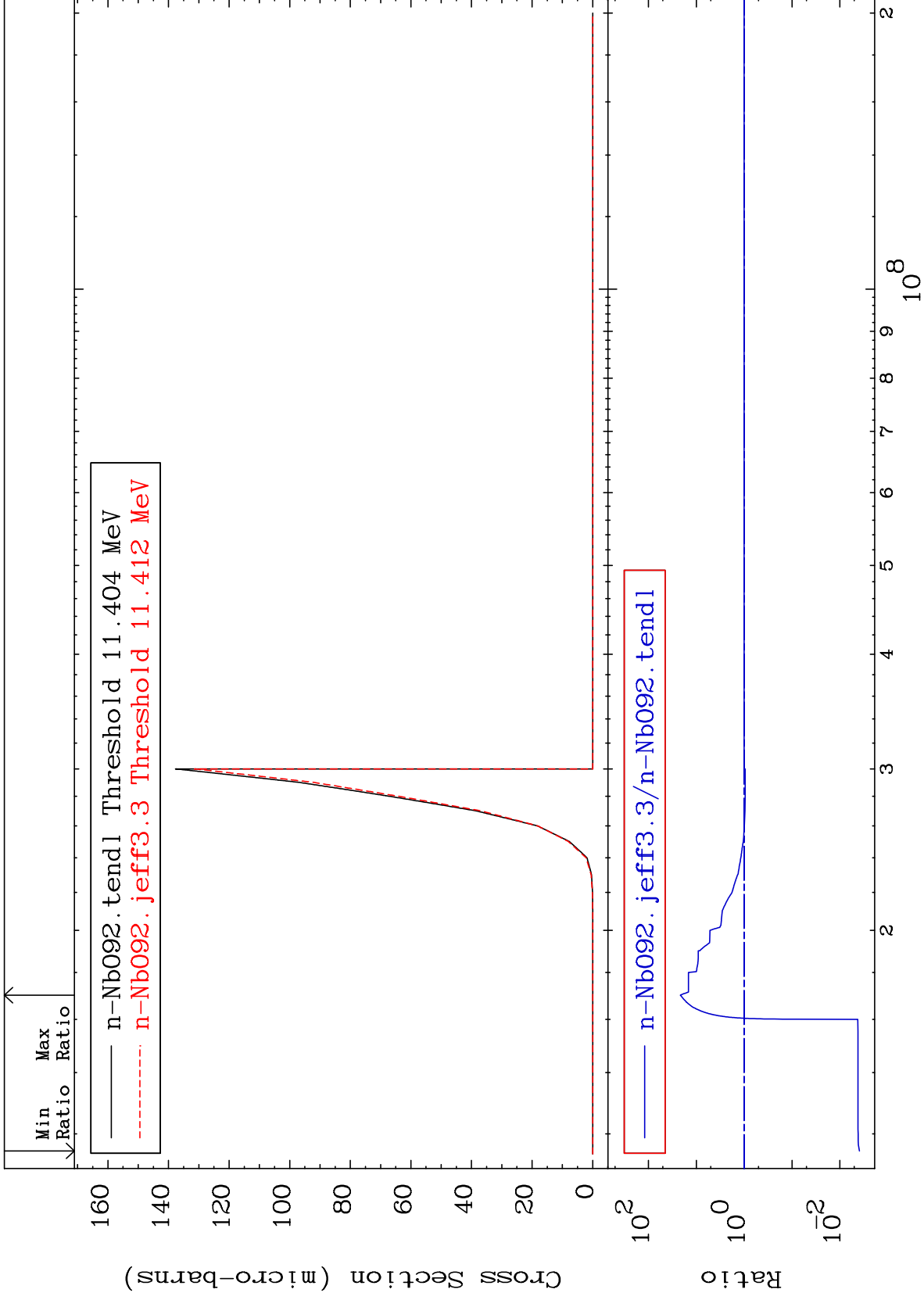
MAT 4122

(n,2n) p:39-Y -90m2

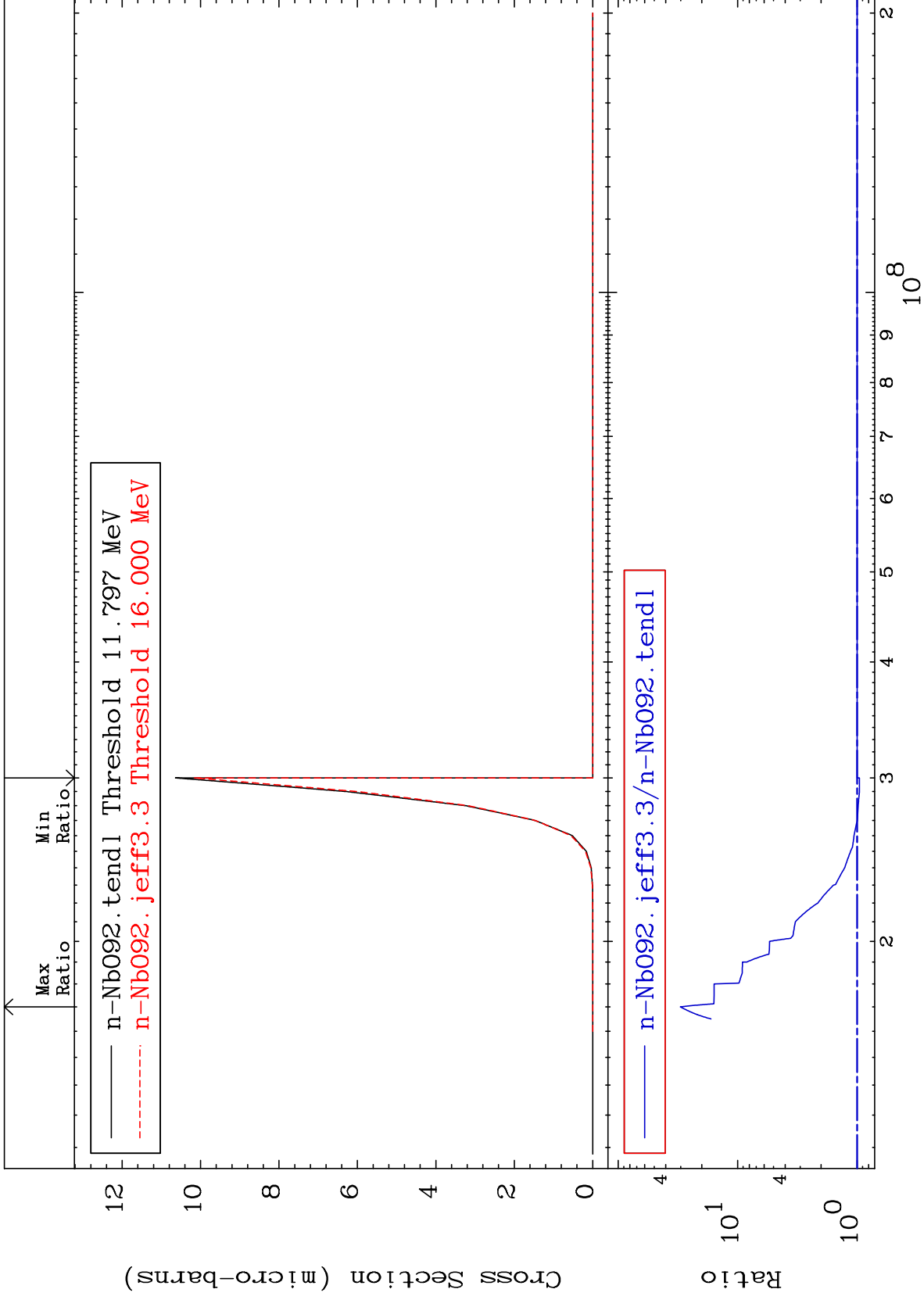
41-Nb-92

Radionuclide Production Cross Section 0.000 To 0.745 %





Radionuclide Production Cross Section -4.442 To 2920. %



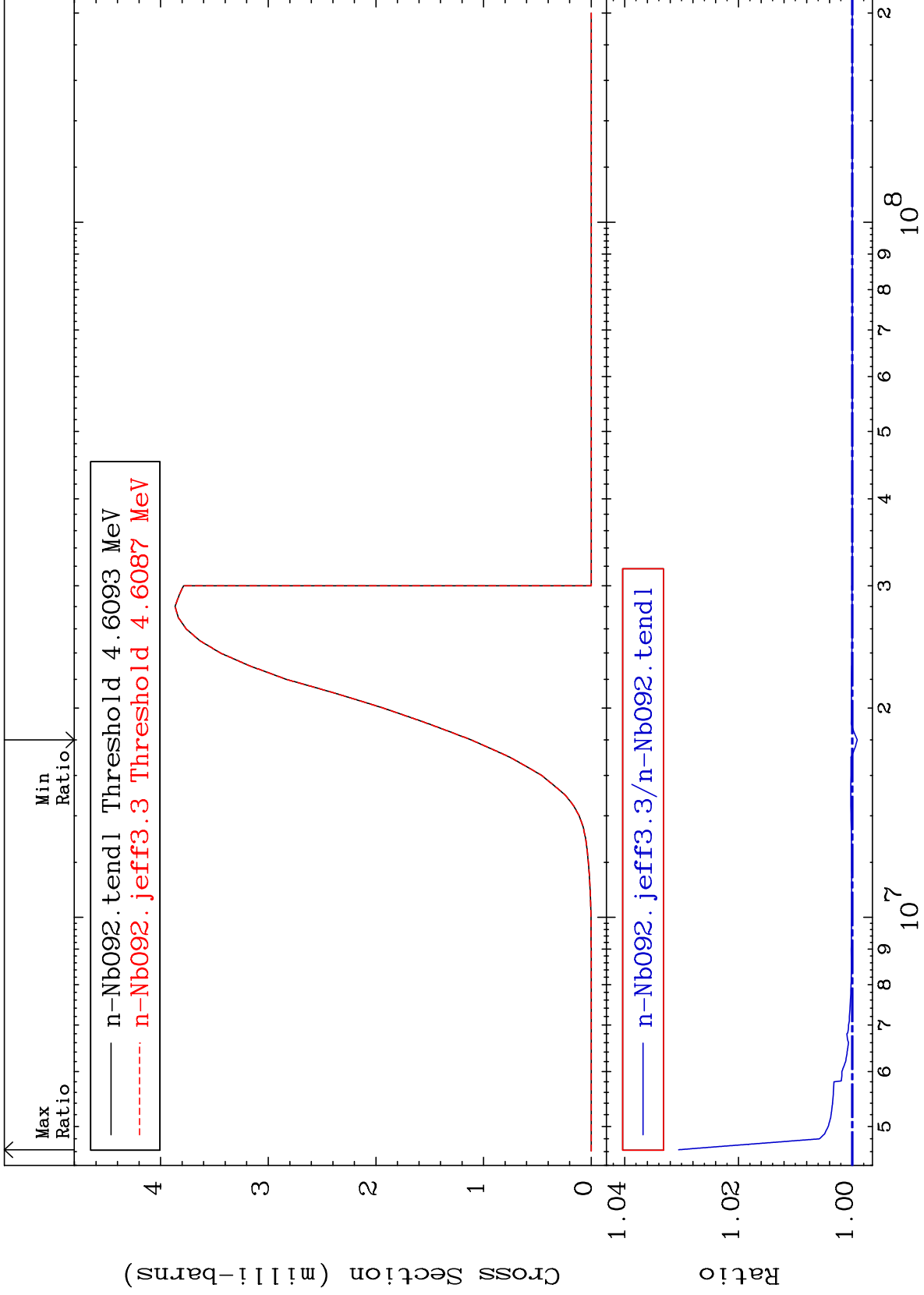


MAT 4122

(n, t):40-Zr-90g

41-Nb-92

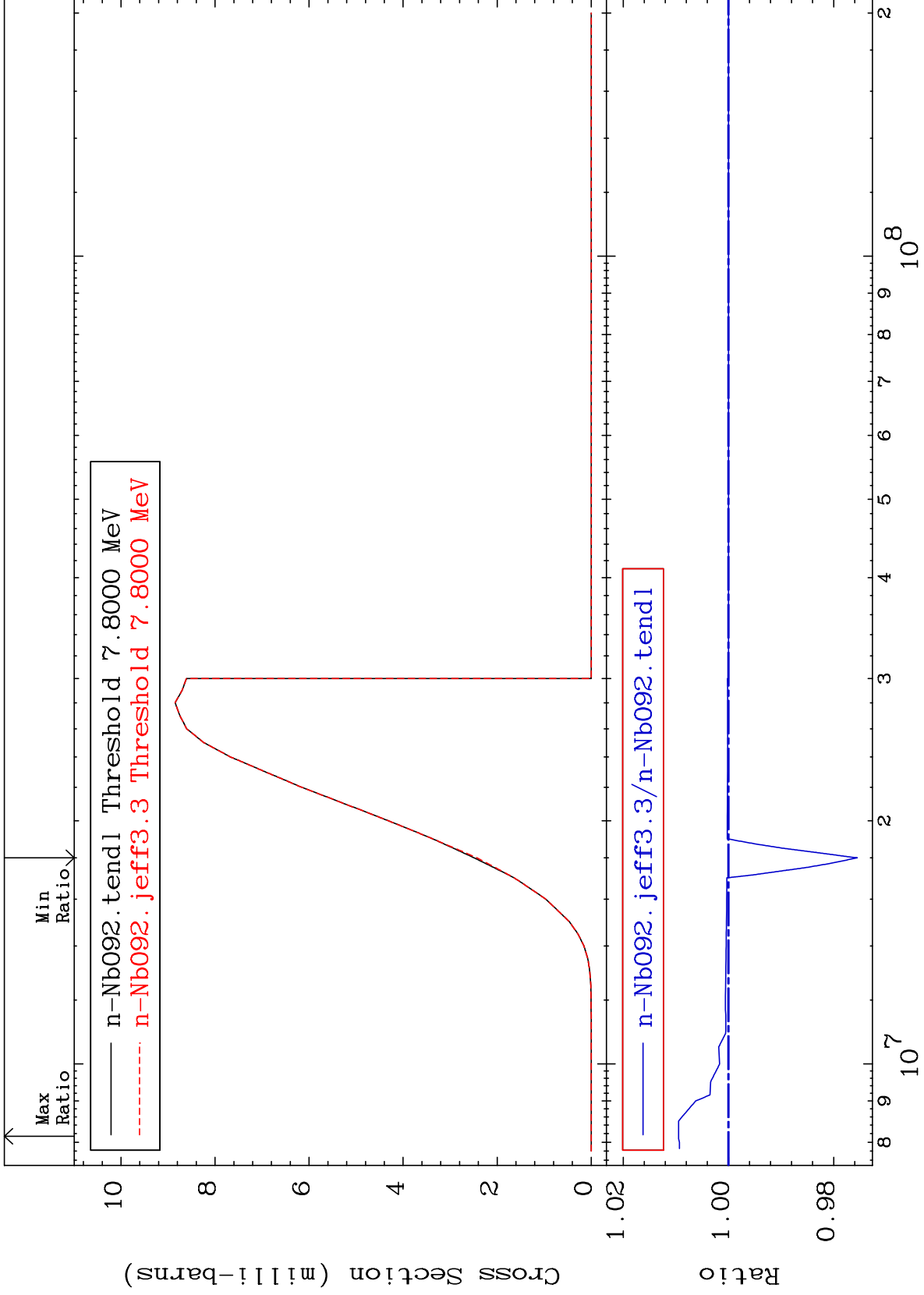
Radionuclide Production Cross Section -0.088 To 3.051 %



97

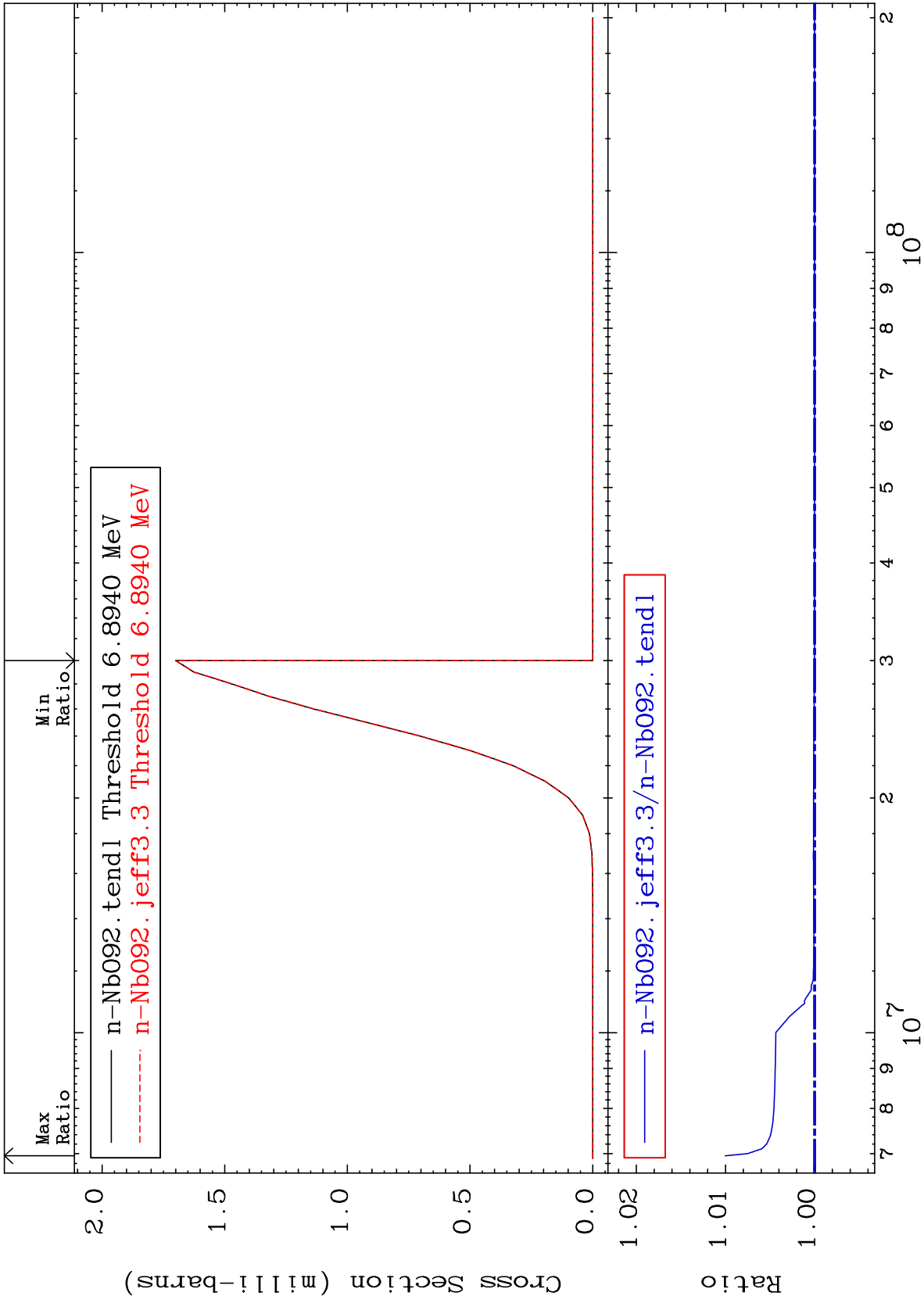
41-Nb-92

Radionuclide Production Cross Section -2.448 To 0.947 %



MAT 4122

(n,He-3):39-Y -90g 41-Nb-92  
Radionuclide Production Cross Section 0.000 To 1.003 %



99

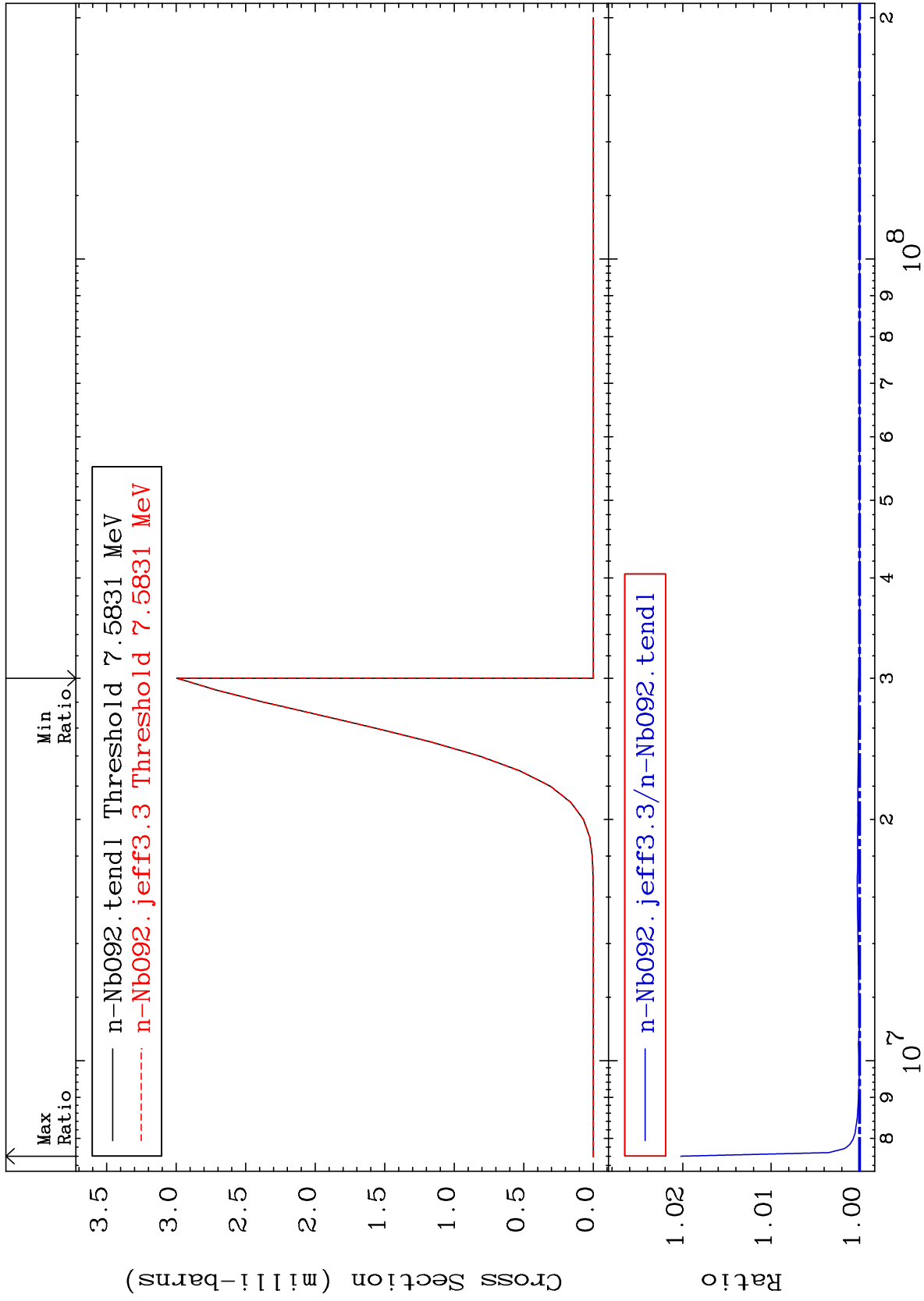
41-Nb-92

MAT 4122

(n,He-3):39-Y -90m2

41-Nb-92

Radionuclide Production Cross Section 0.000 To 2.023 %



41-Nb-92

Incident Energy (eV)

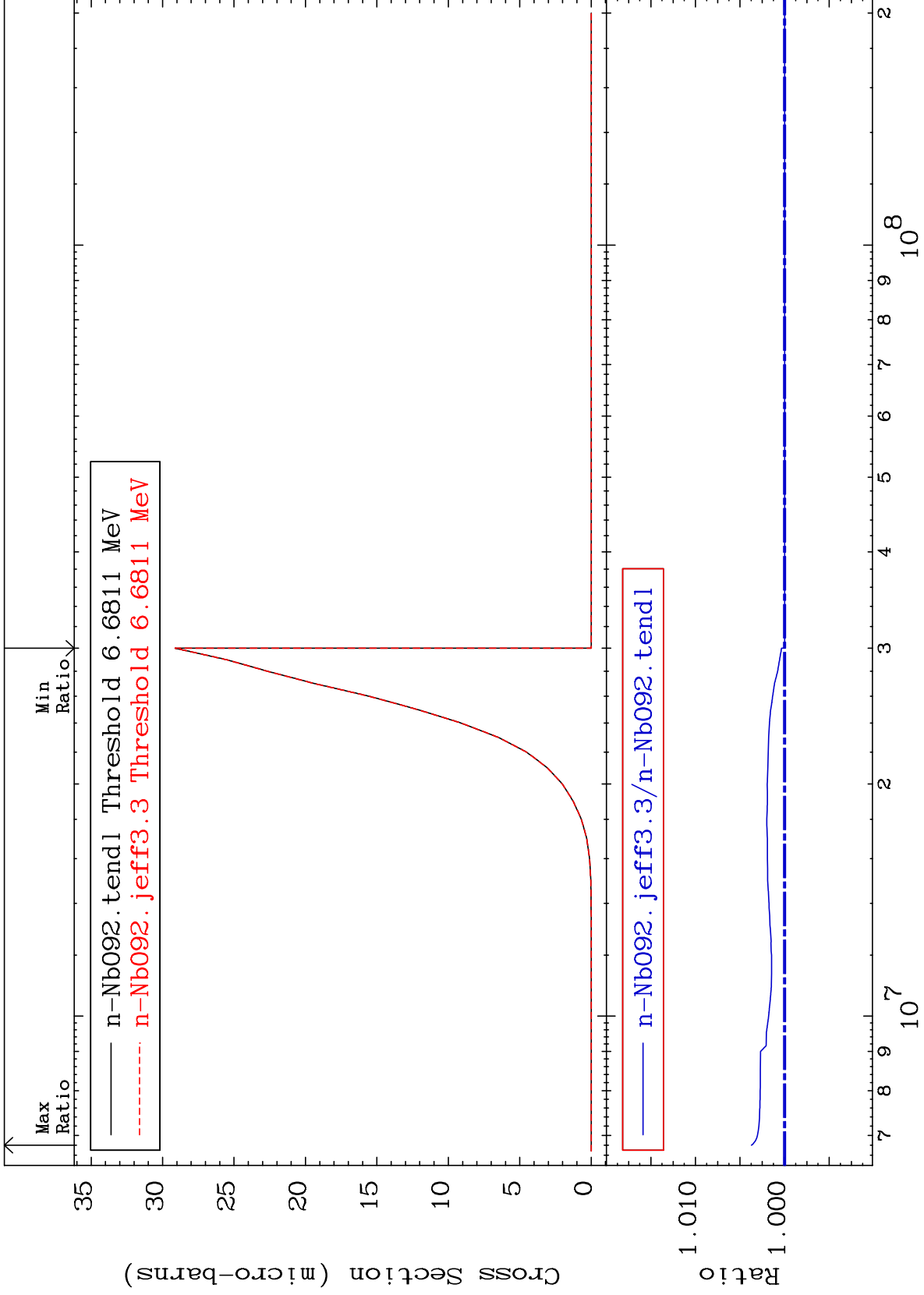
100

MAT 4122

(n,2p):39-Y -91g

41-Nb-92

Radionuclide Production Cross Section 0.000 To 0.373 %



101

Incident Energy (eV)

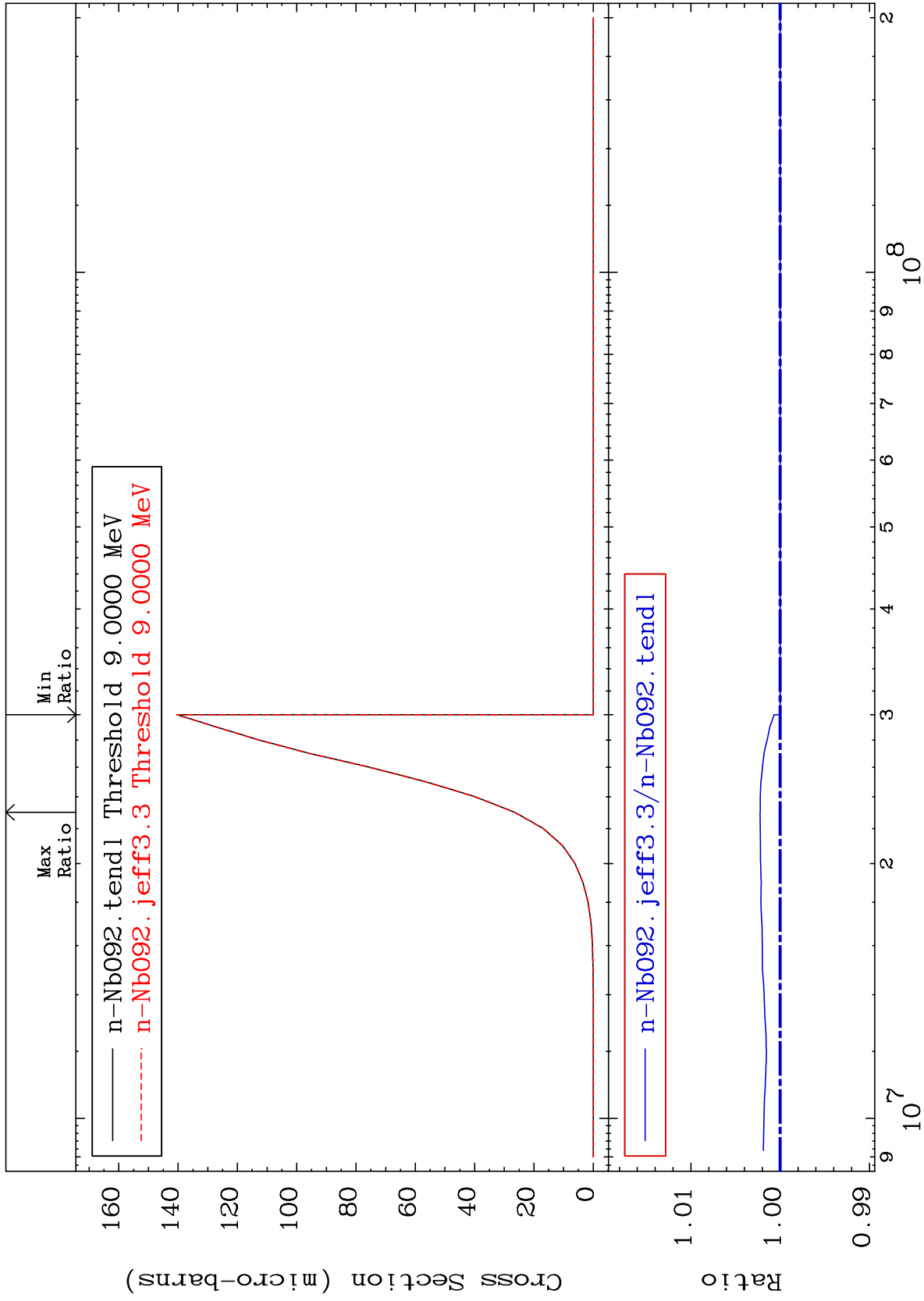
41-Nb-92

MAT 4122

(n,2p):39-Y -91m1

41-Nb-92

Radionuclide Production Cross Section 0.000 To 0.225 %



41-Nb-92

Incident Energy (eV)

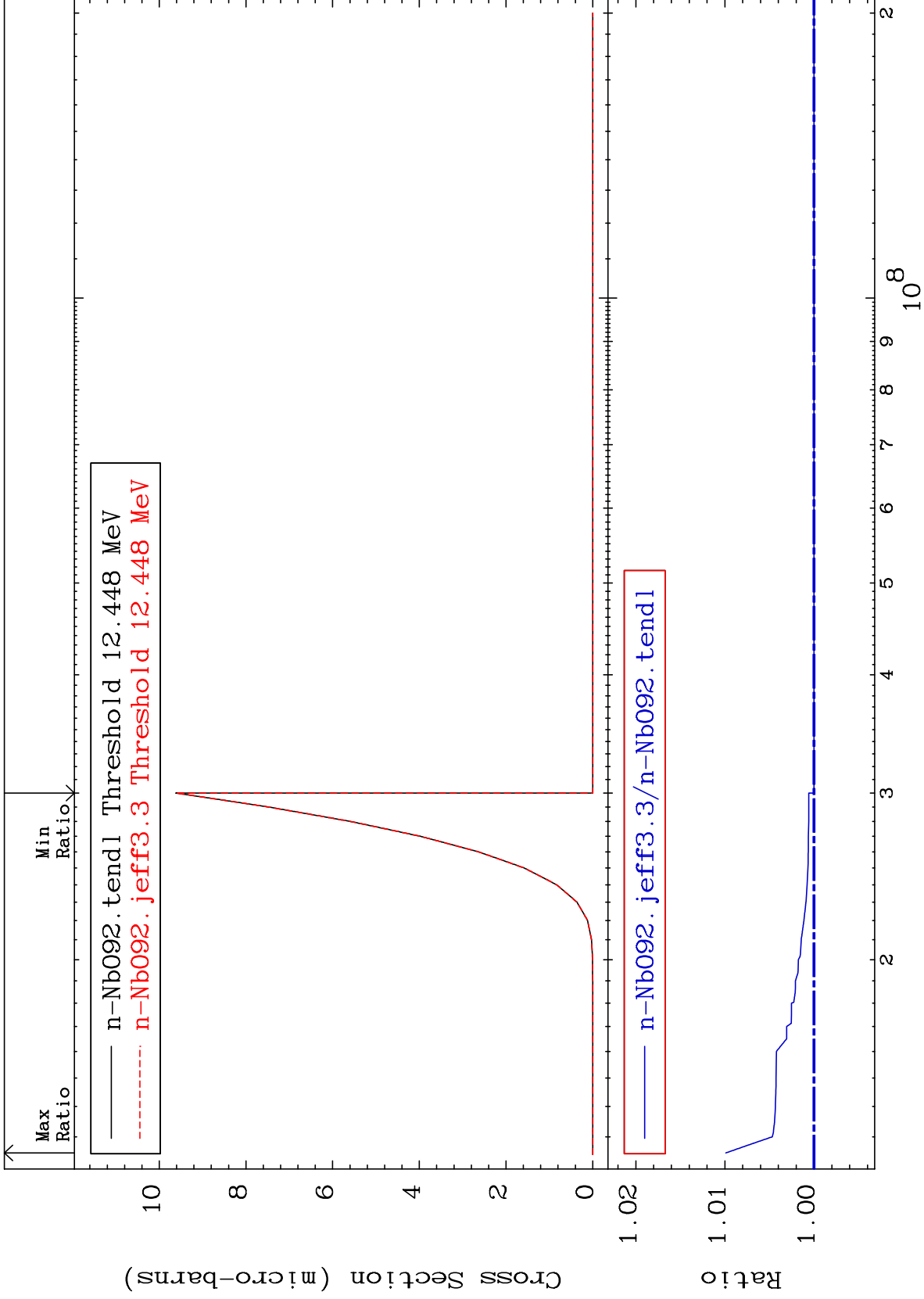
102

MAT 4122

(n, p) d:39-Y -90g

41-Nb-92

Radionuclide Production Cross Section 0.000 To 0.990 %



103

Incident Energy (eV)

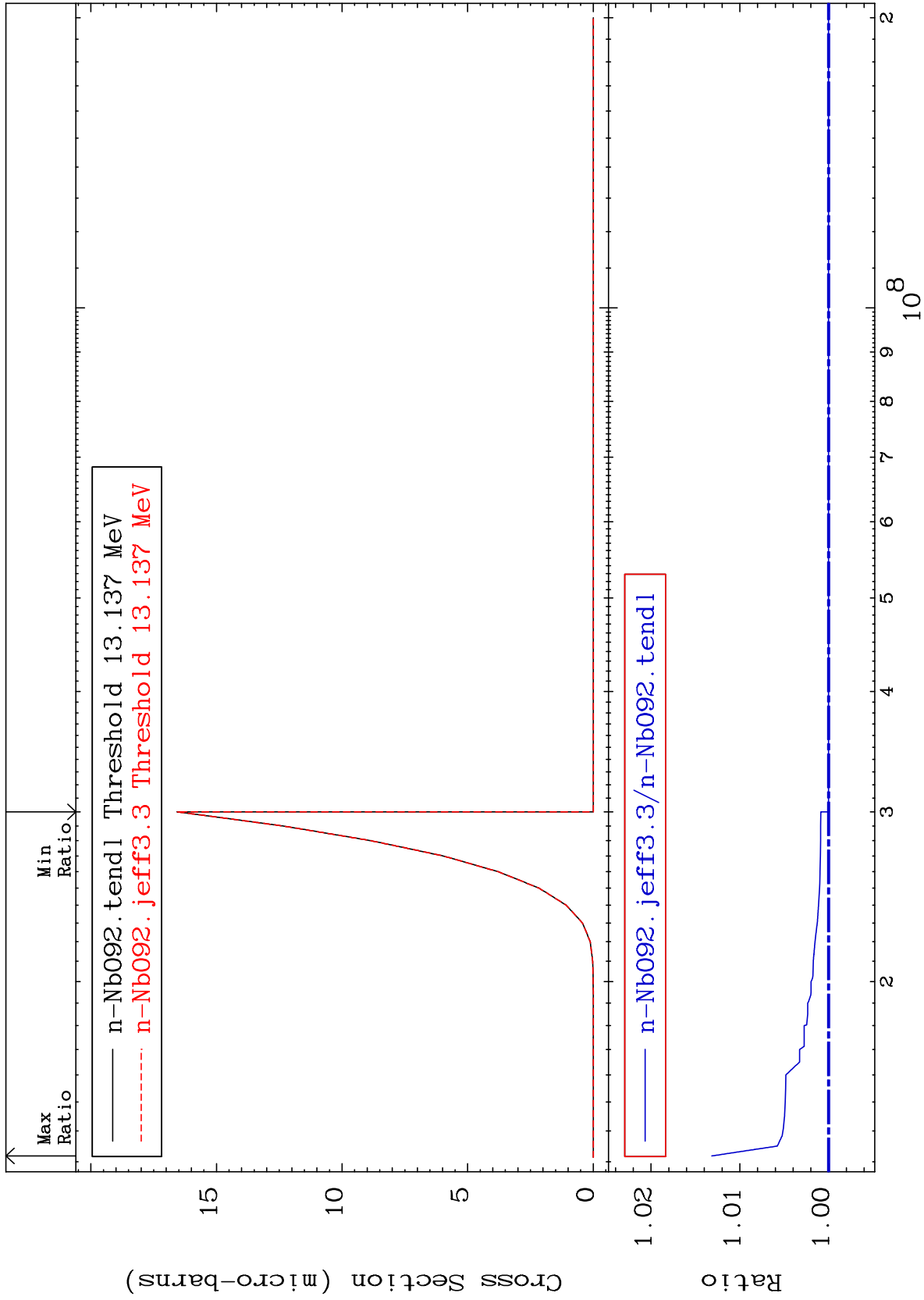
41-Nb-92

MAT 4122

(n, p) d:39-Y -90m2

41-Nb-92

Radionuclide Production Cross Section 0.000 To 1.317 %

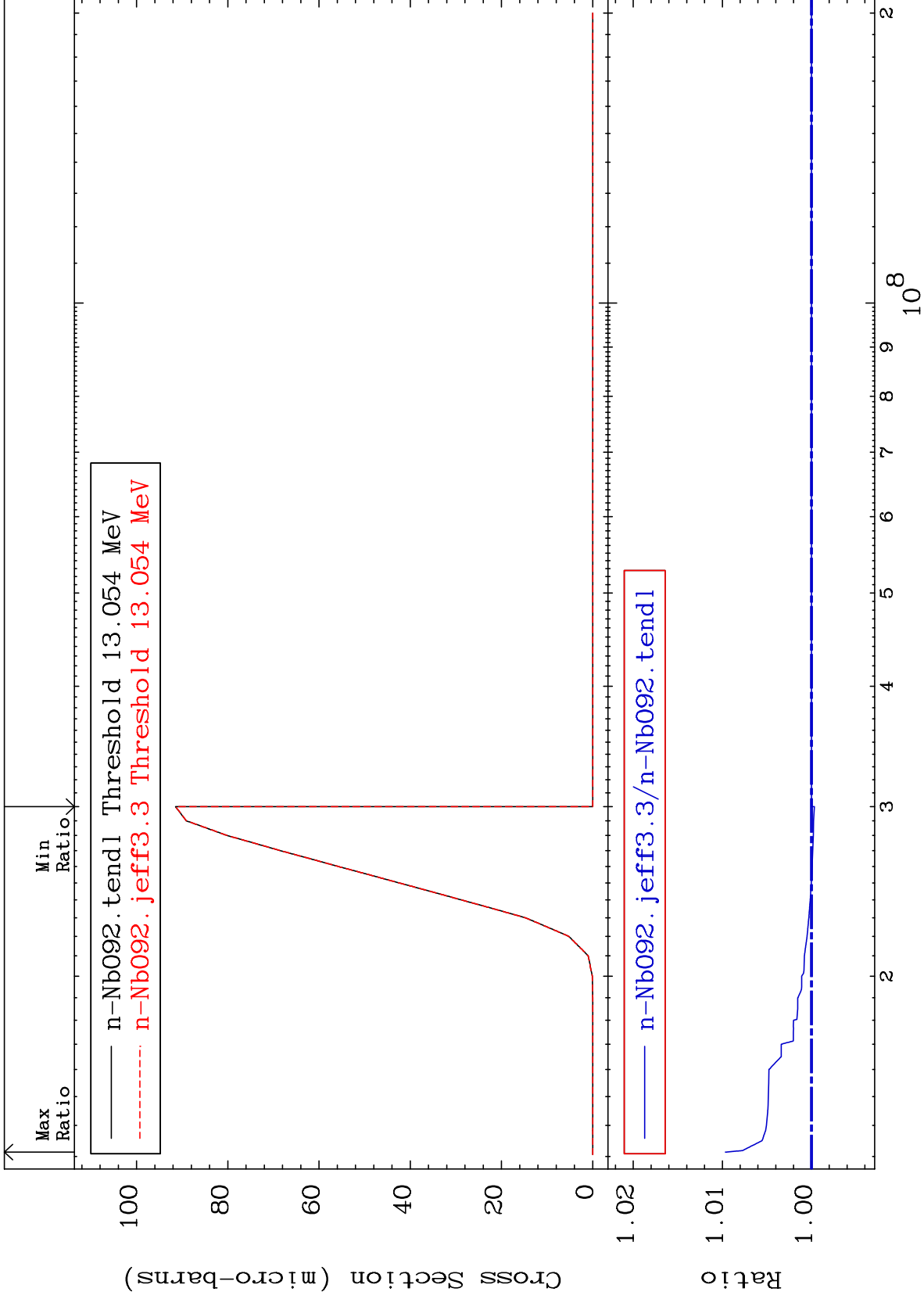


104

Incident Energy (eV)

41-Nb-92



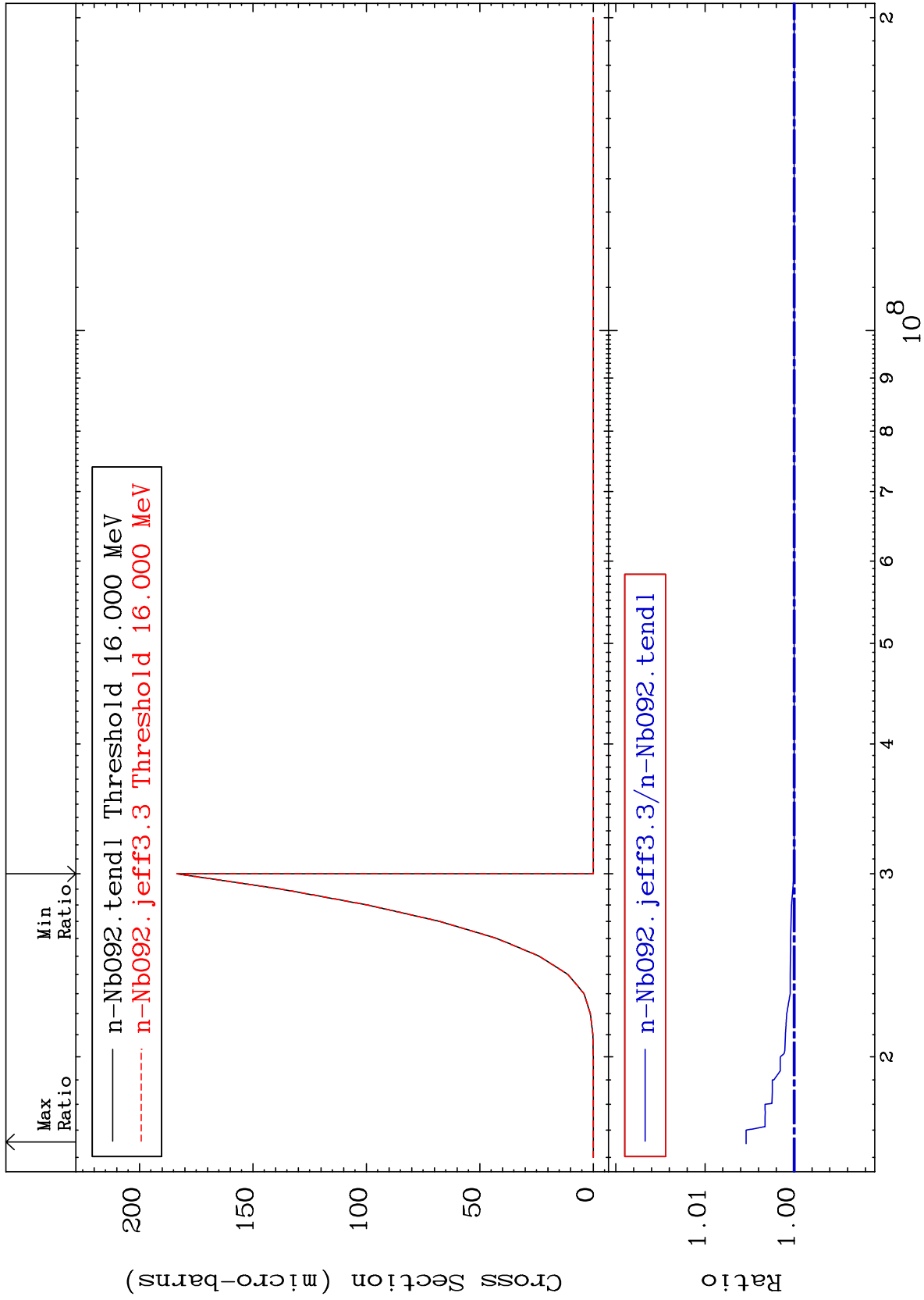


MAT 4122

(n,p) t:39-Y -89m1

41-Nb-92

Radionuclide Production Cross Section 0.000 To 0.539 %



106

Incident Energy (eV)

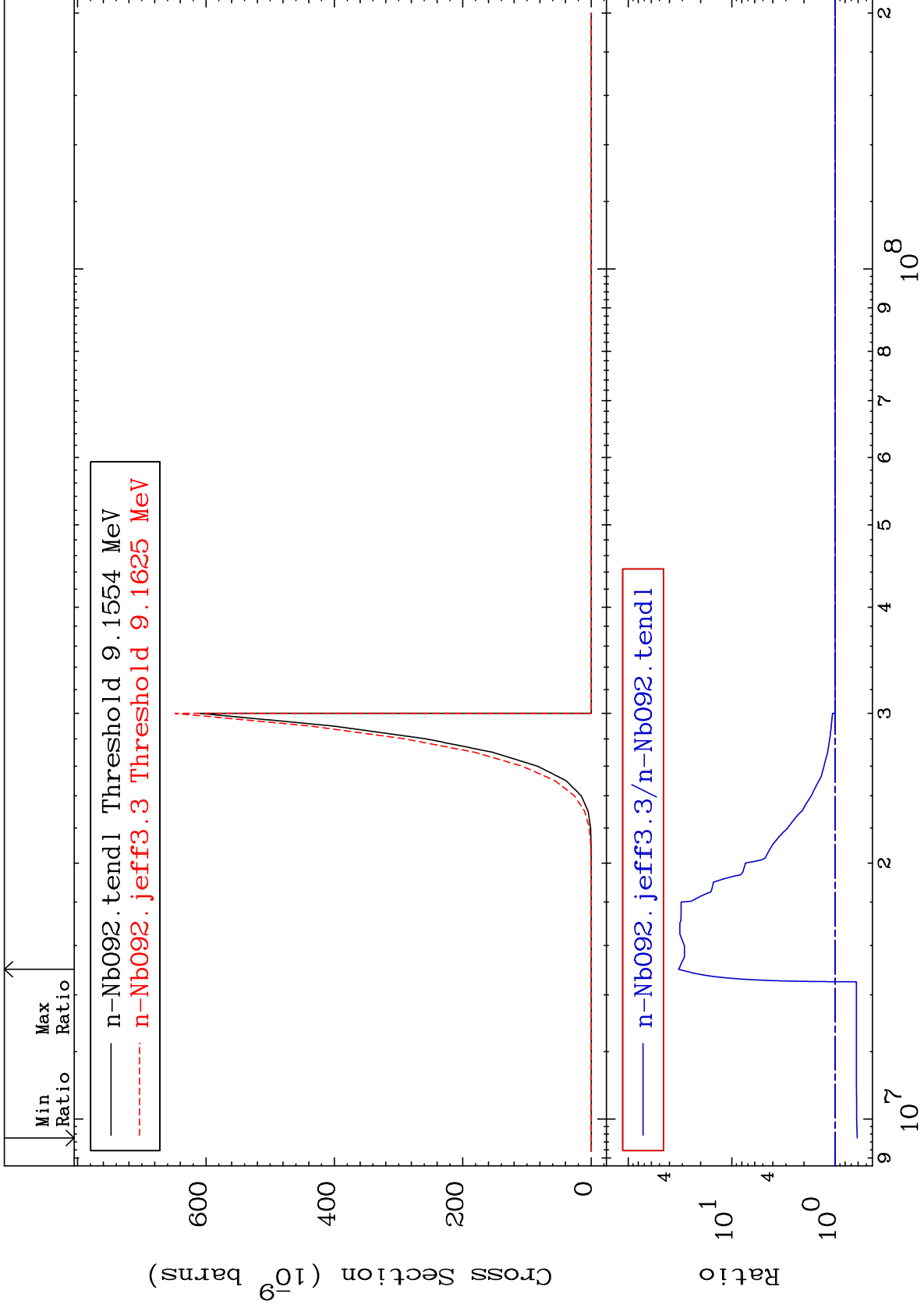
41-Nb-92

MAT 4122

(n, d)  $\alpha$ : 38-Sr-87g

41-Nb-92

Radionuclide Production Cross Section -38.81 To 3162. %



107

Incident Energy (eV)

41-Nb-92

Radionuclide Production Cross Section 0.000 To 6671. %

