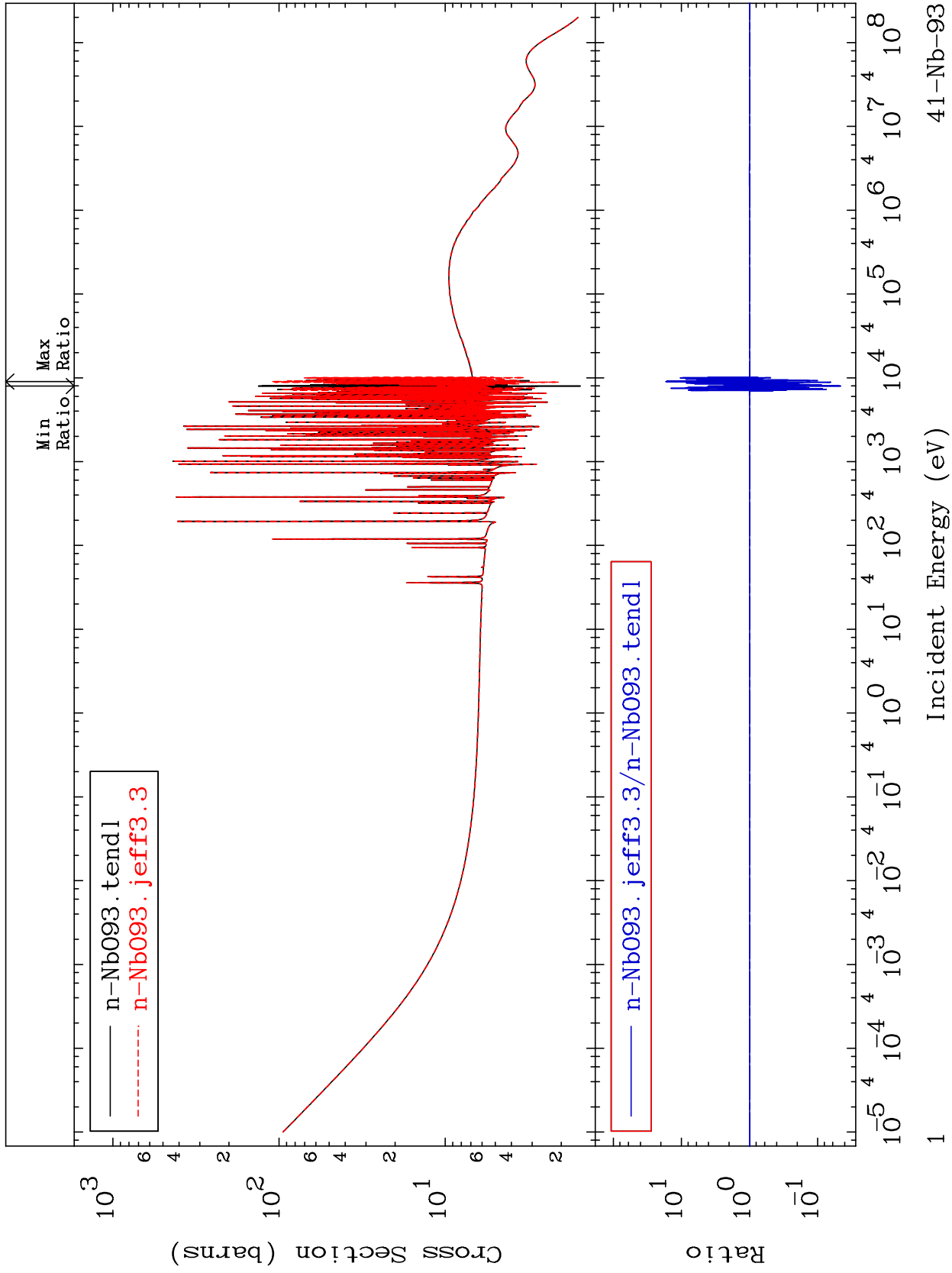


MAT 4125

Total
Cross Section

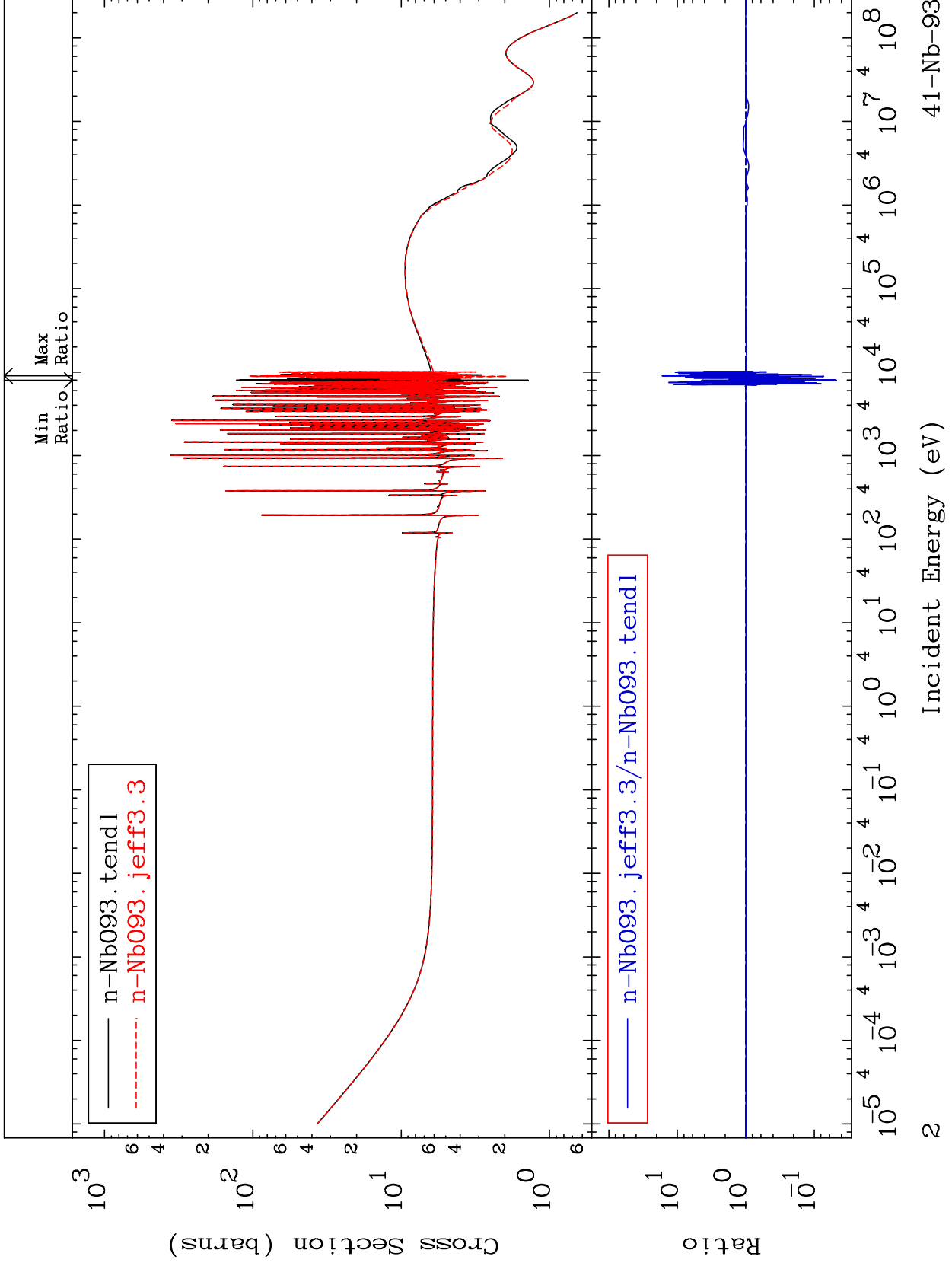
41-Nb-93
-95.43 To 1587. %



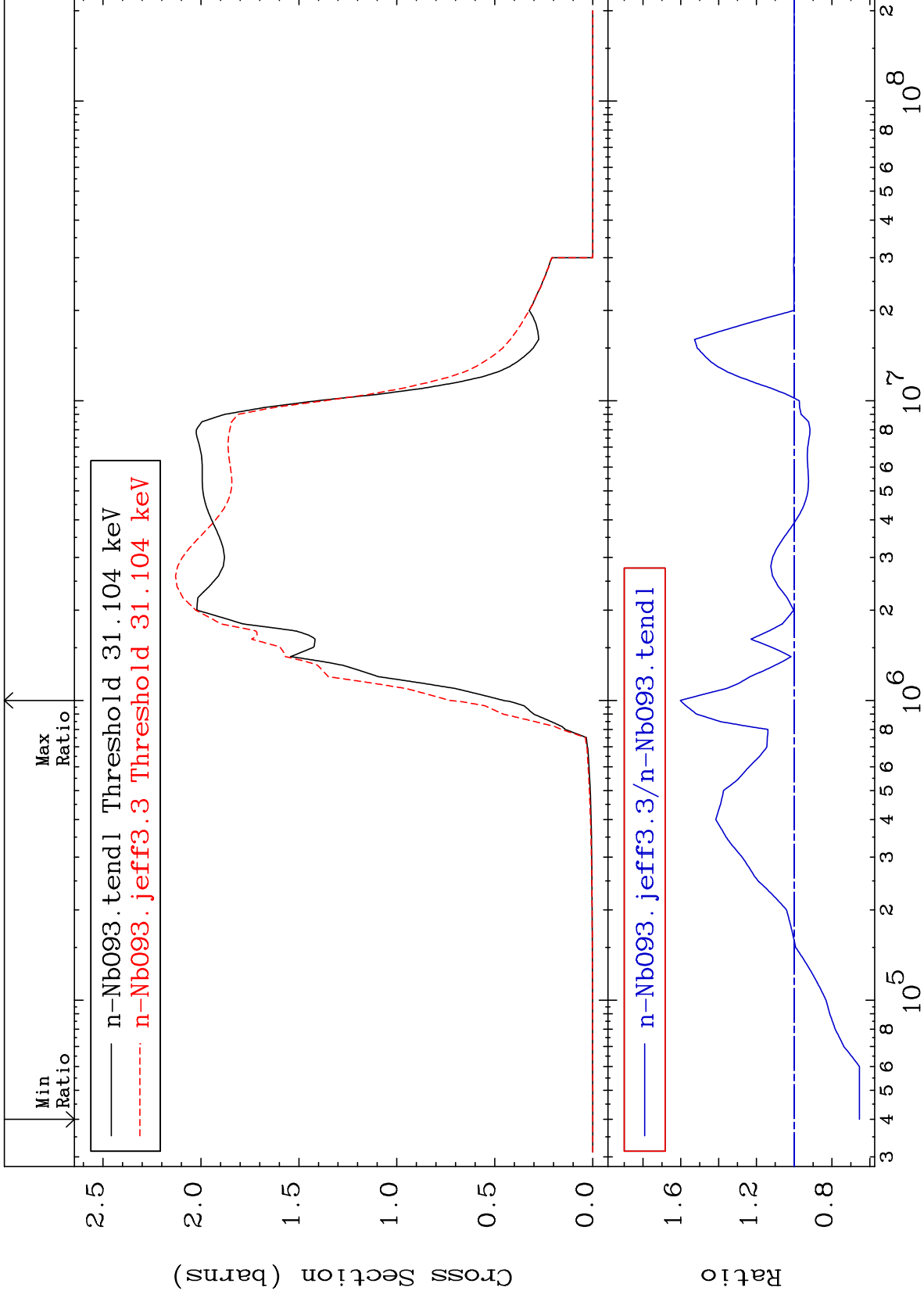
MAT 4125

Elastic
Cross Section

41-Nb-93
-95.29 To 1554. %



41-Nb-93



MAT 4125

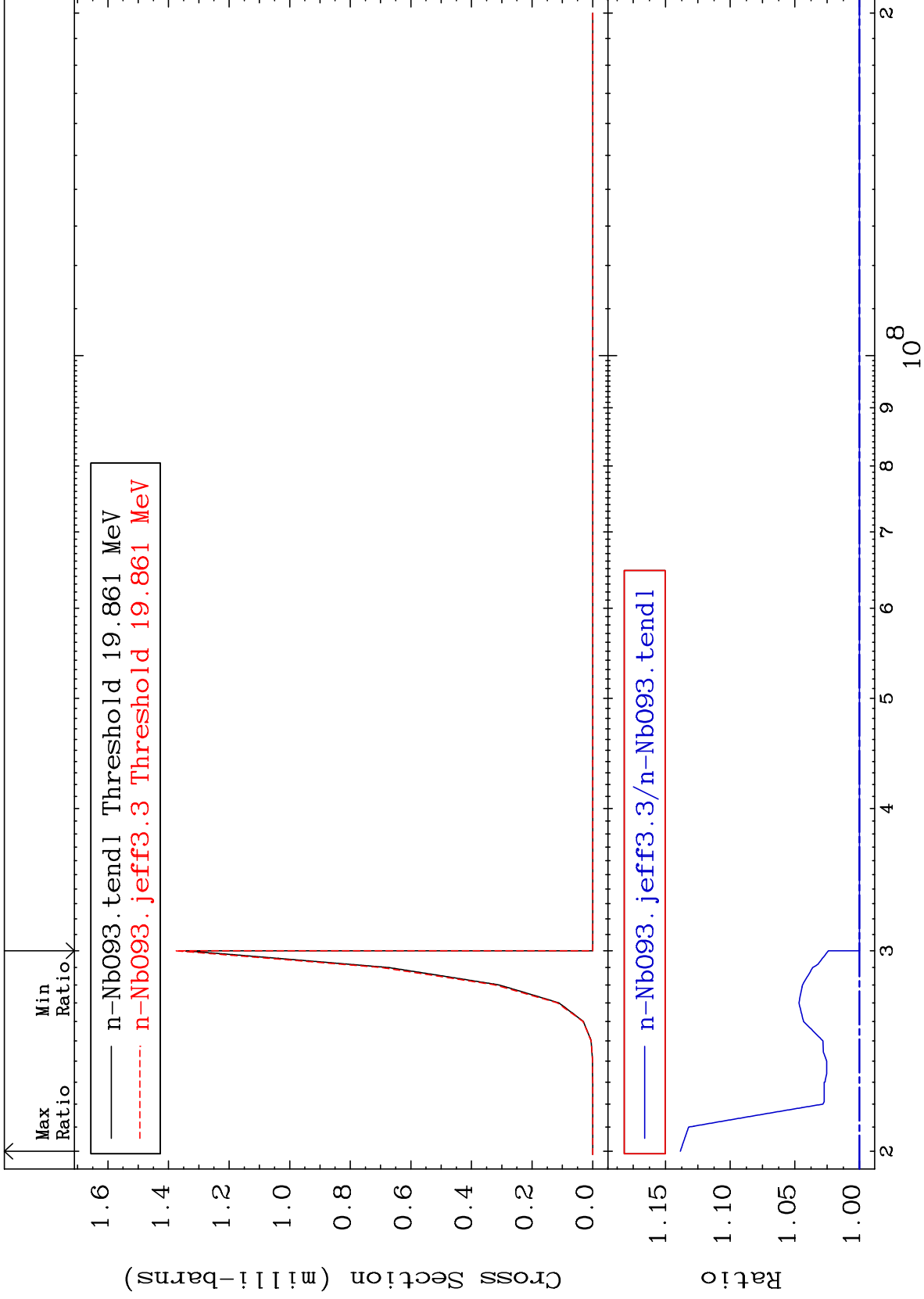
(n,2n) d

41-Nb-93

Cross Section

0.000

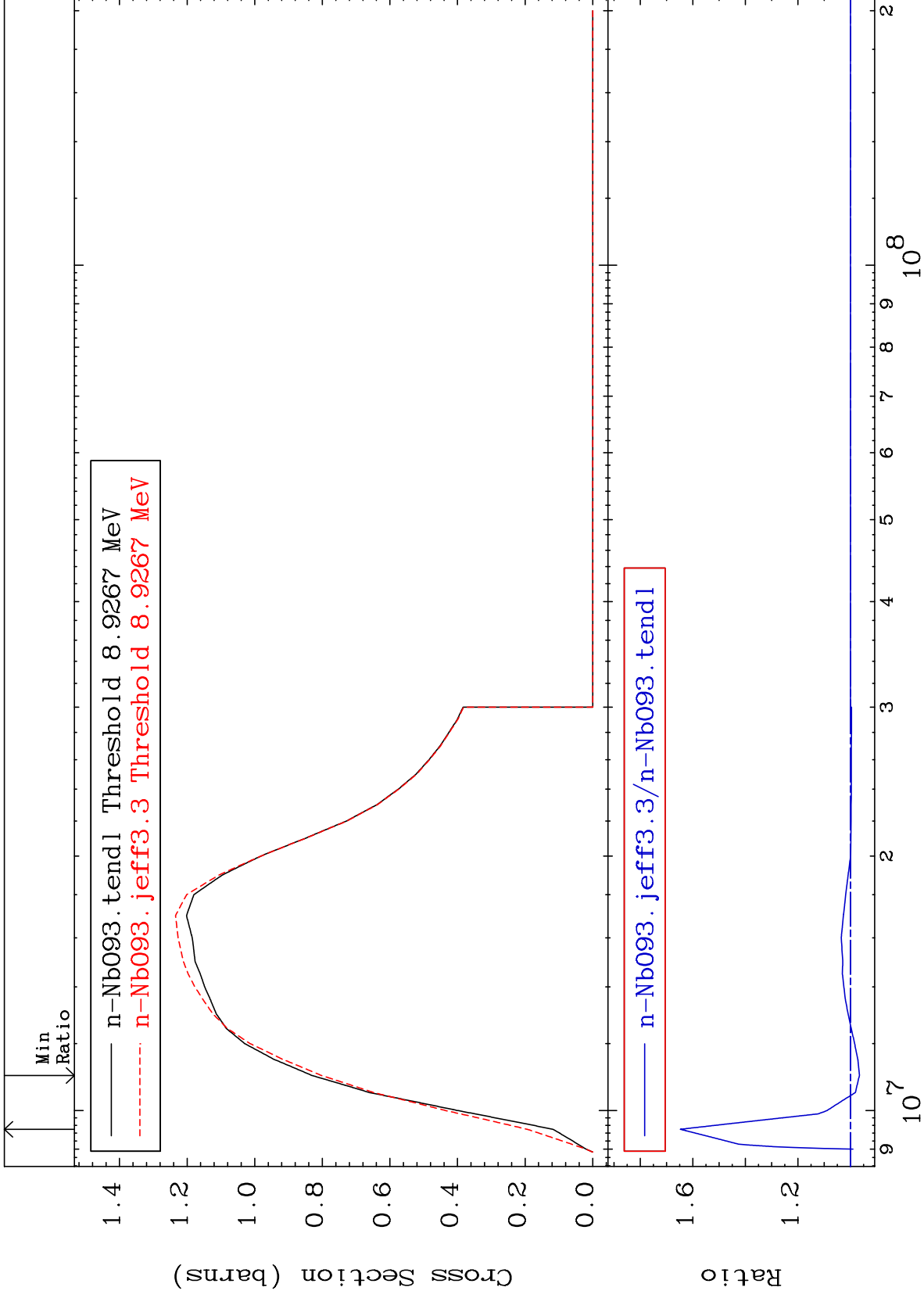
To 13.86 %



MAT 4125

(n,2n)
Cross Section

41-Nb-93
-3.388 To 64.74 %



5

Incident Energy (eV)

41-Nb-93

MAT 4125

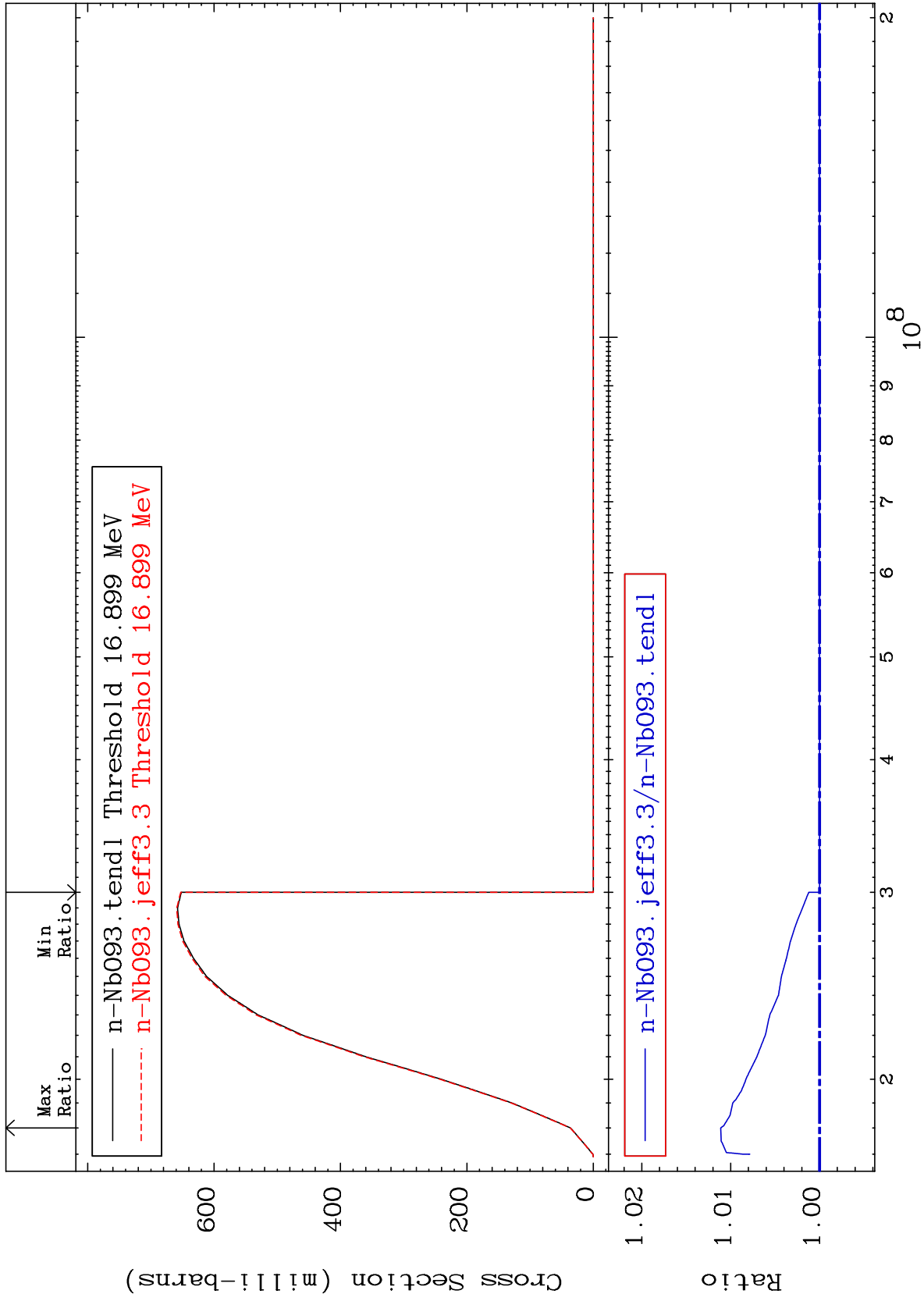
(n,3n)

41-Nb-93

Cross Section

0.000

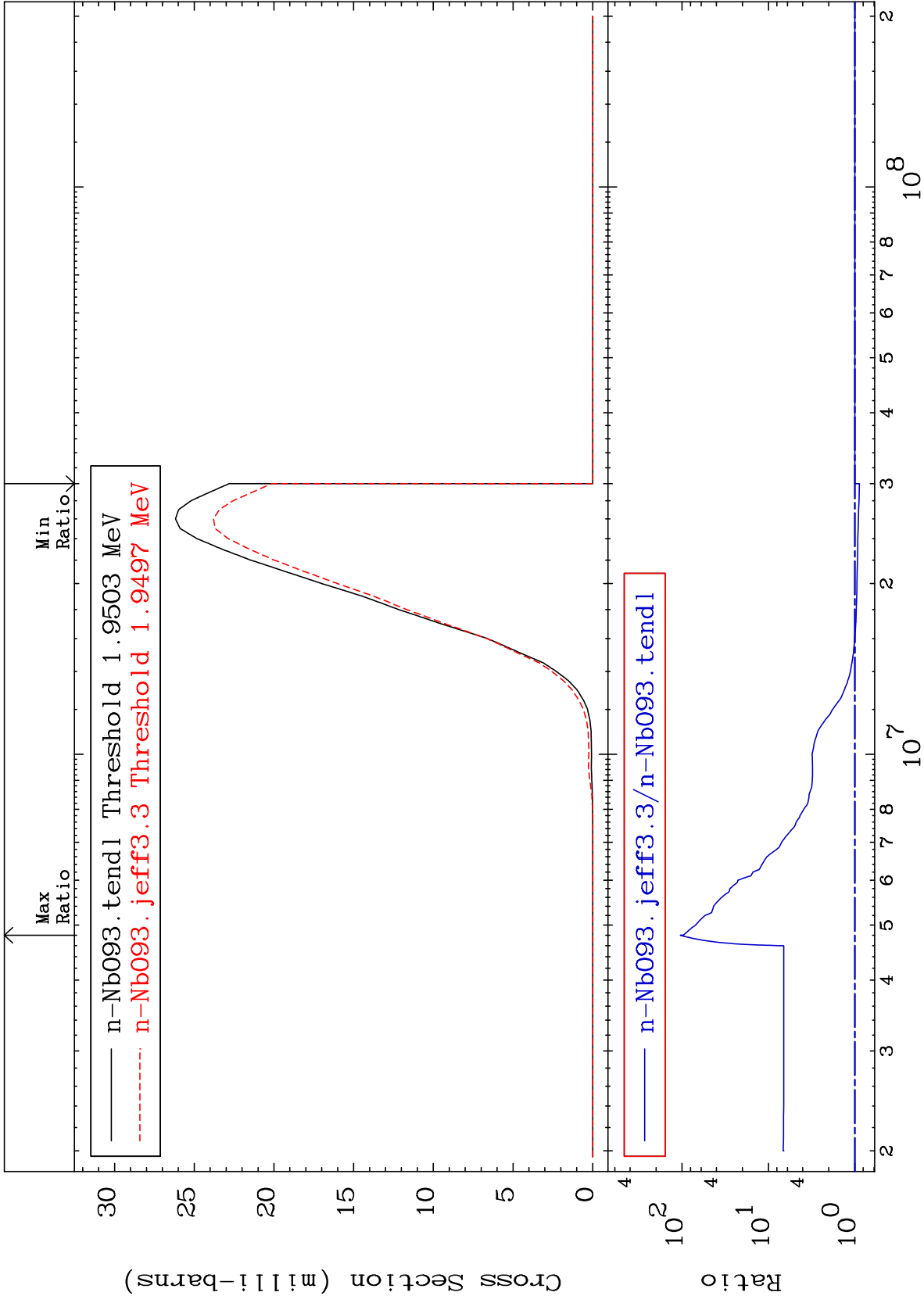
To 1.112 %



MAT 4125

(n, n') α
Cross Section

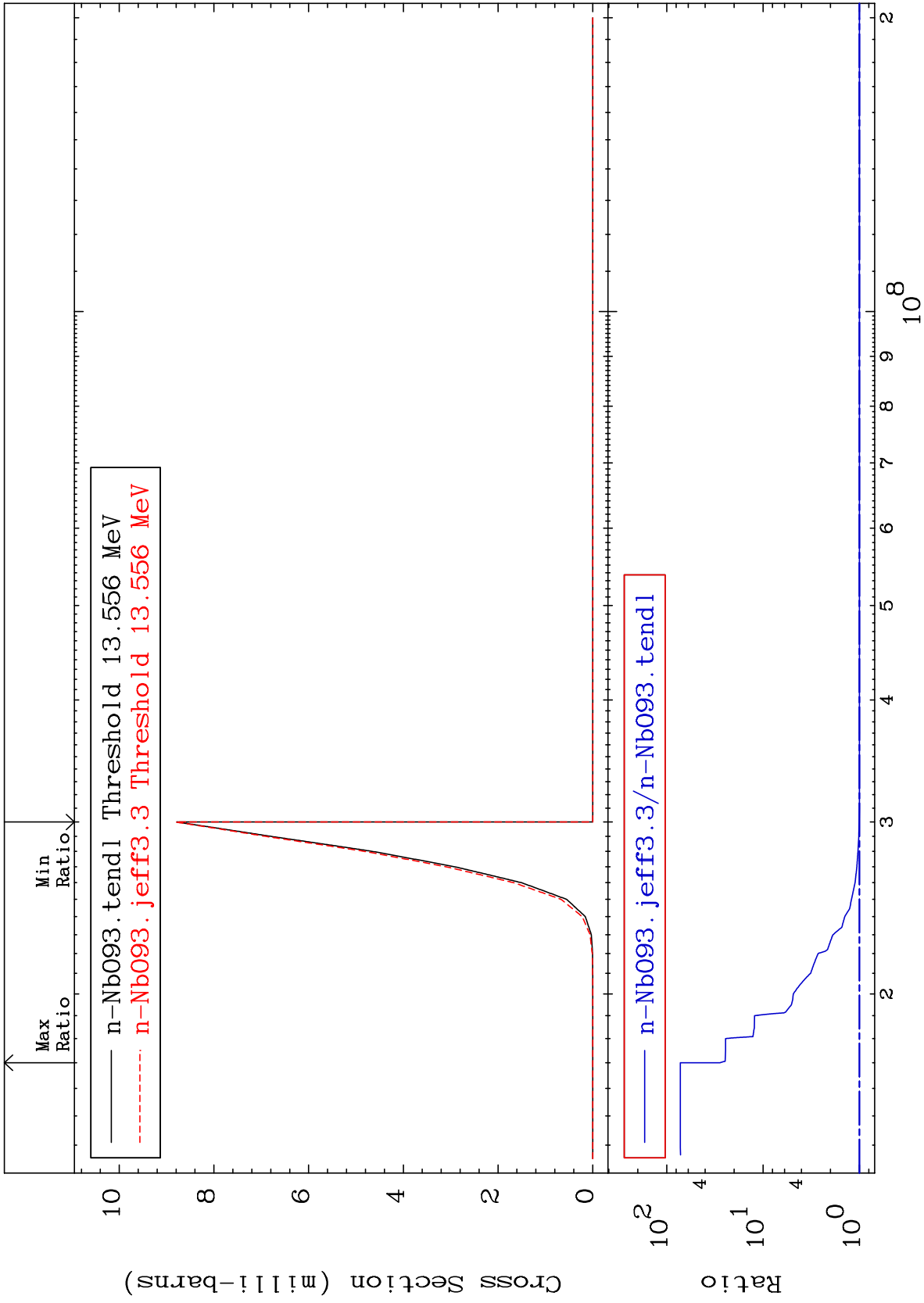
41-Nb-93
-11.68 To 9999. %



MAT 4125

(n,2n) α
Cross Section

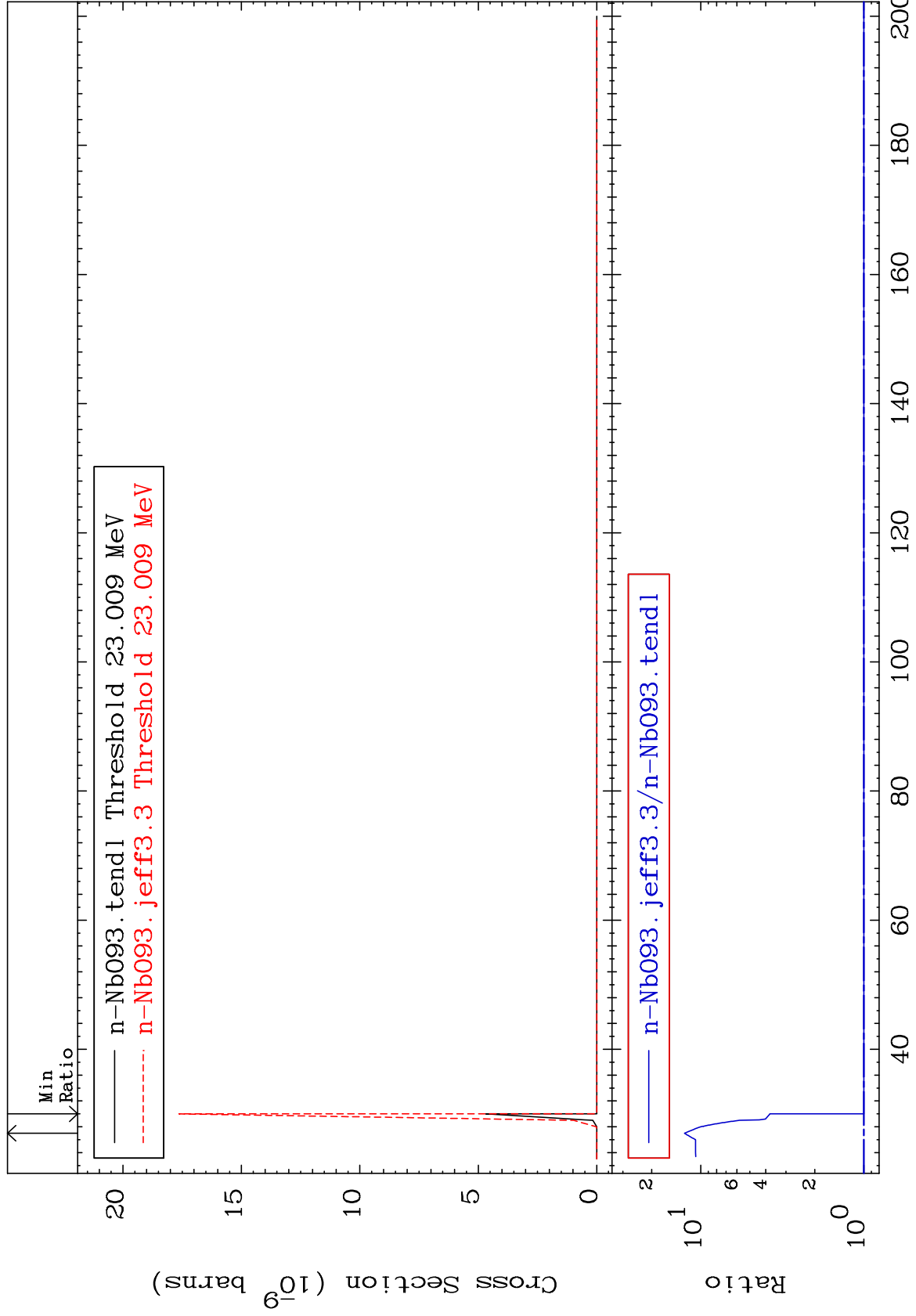
41-Nb-93
To 7137. %
0.000



MAT 4125

(n,3n) α
Cross Section

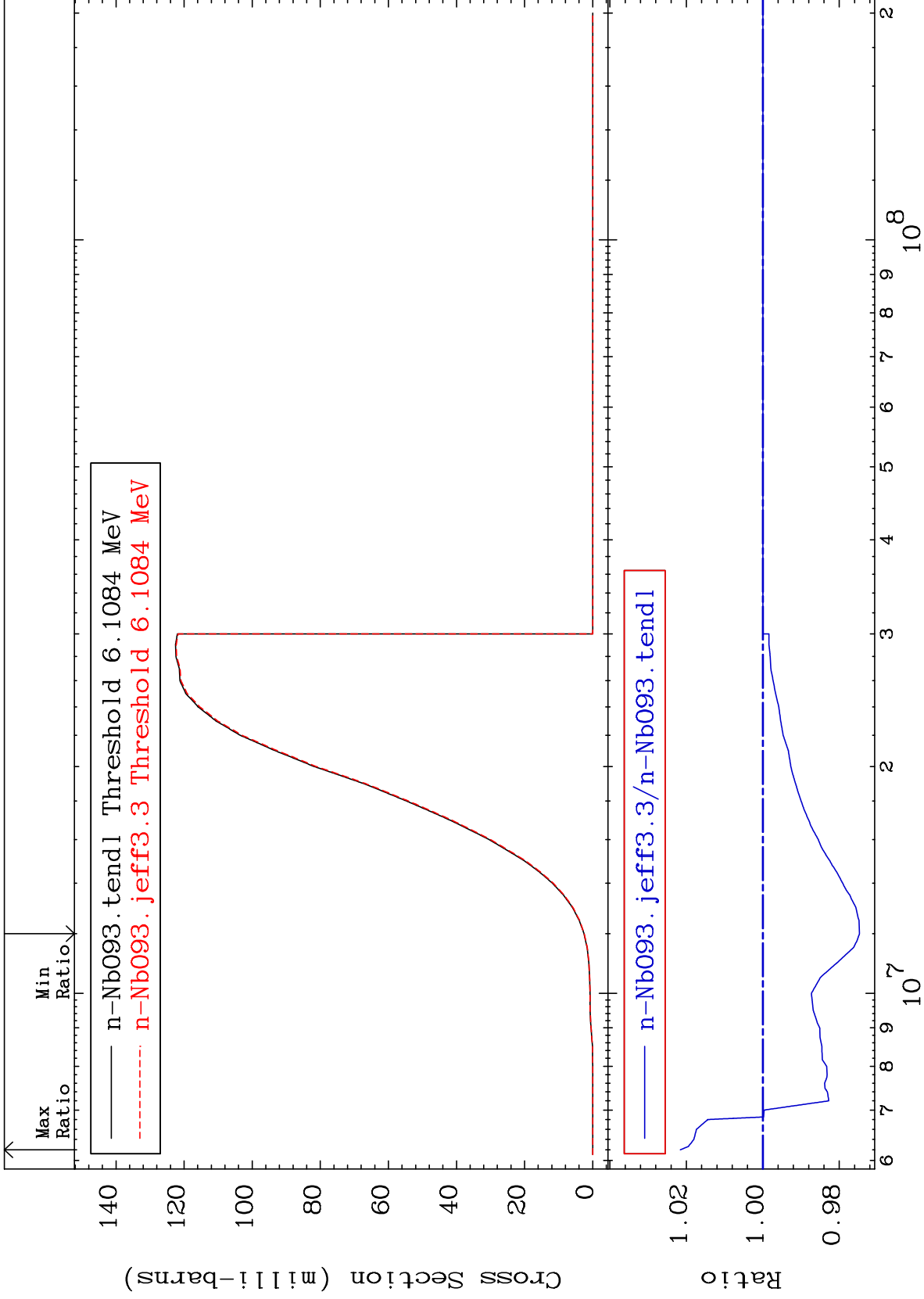
41-Nb-93
To 1157. %
0.000



MAT 4125

(n,n') p
Cross Section

41-Nb-93
-2.527 To 2.157 %



10

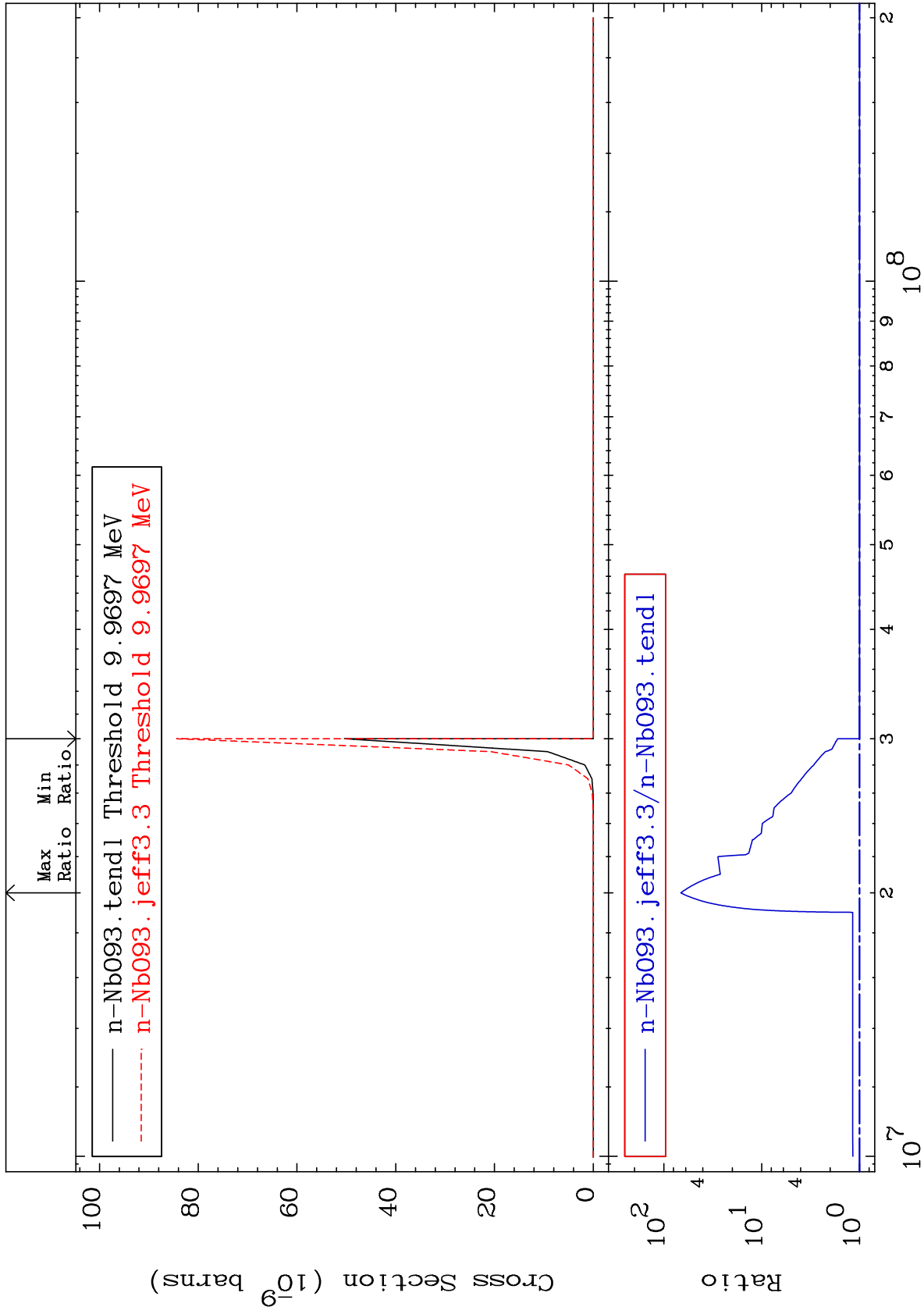
Incident Energy (eV)

41-Nb-93

MAT 4125

(n, n') 2α
Cross Section

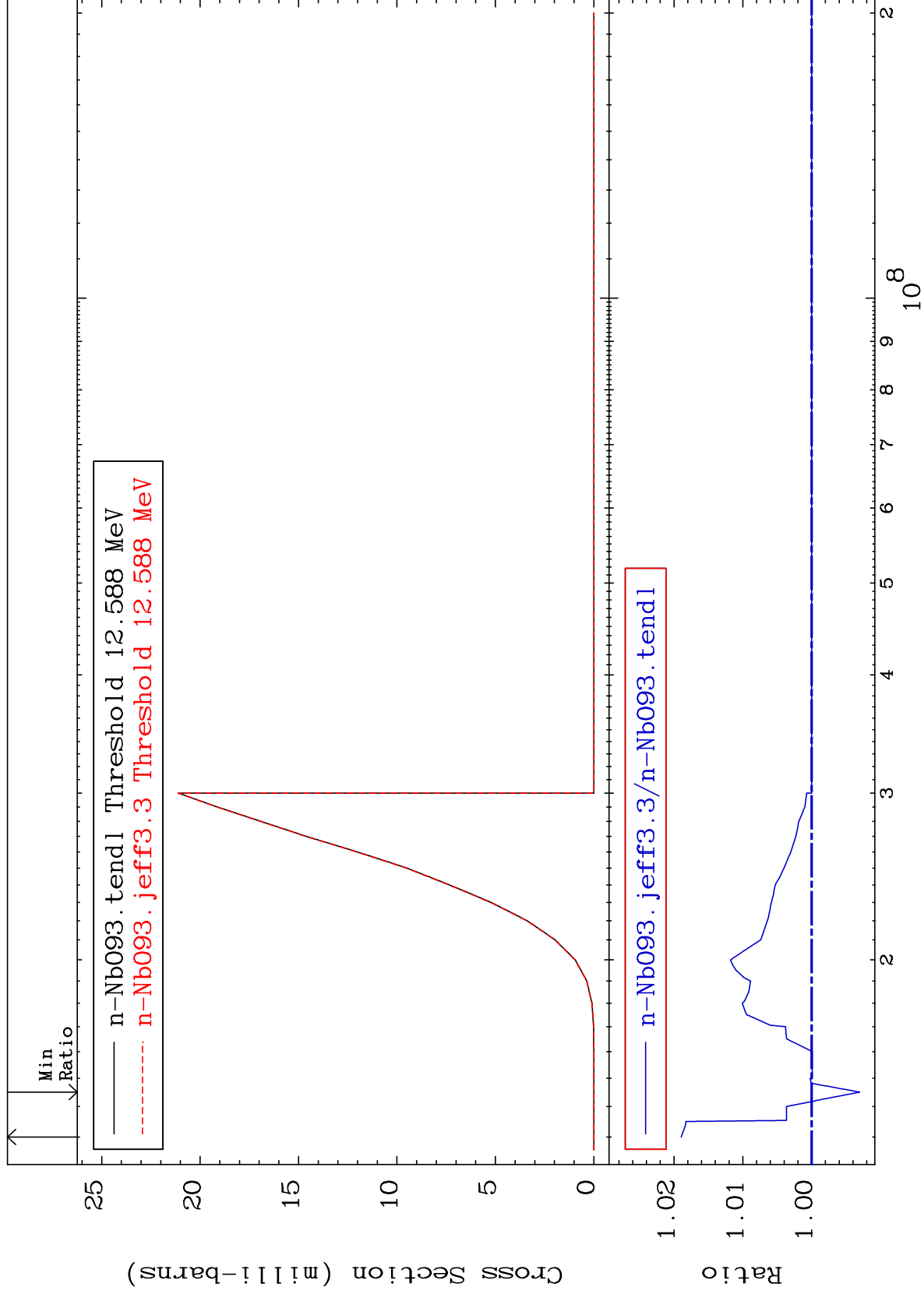
41-Nb-93
0.000 To 6628. %



MAT 4125

(n,n') d
Cross Section

41-Nb-93
-0.697 To 1.896 %



12

Incident Energy (eV)

41-Nb-93

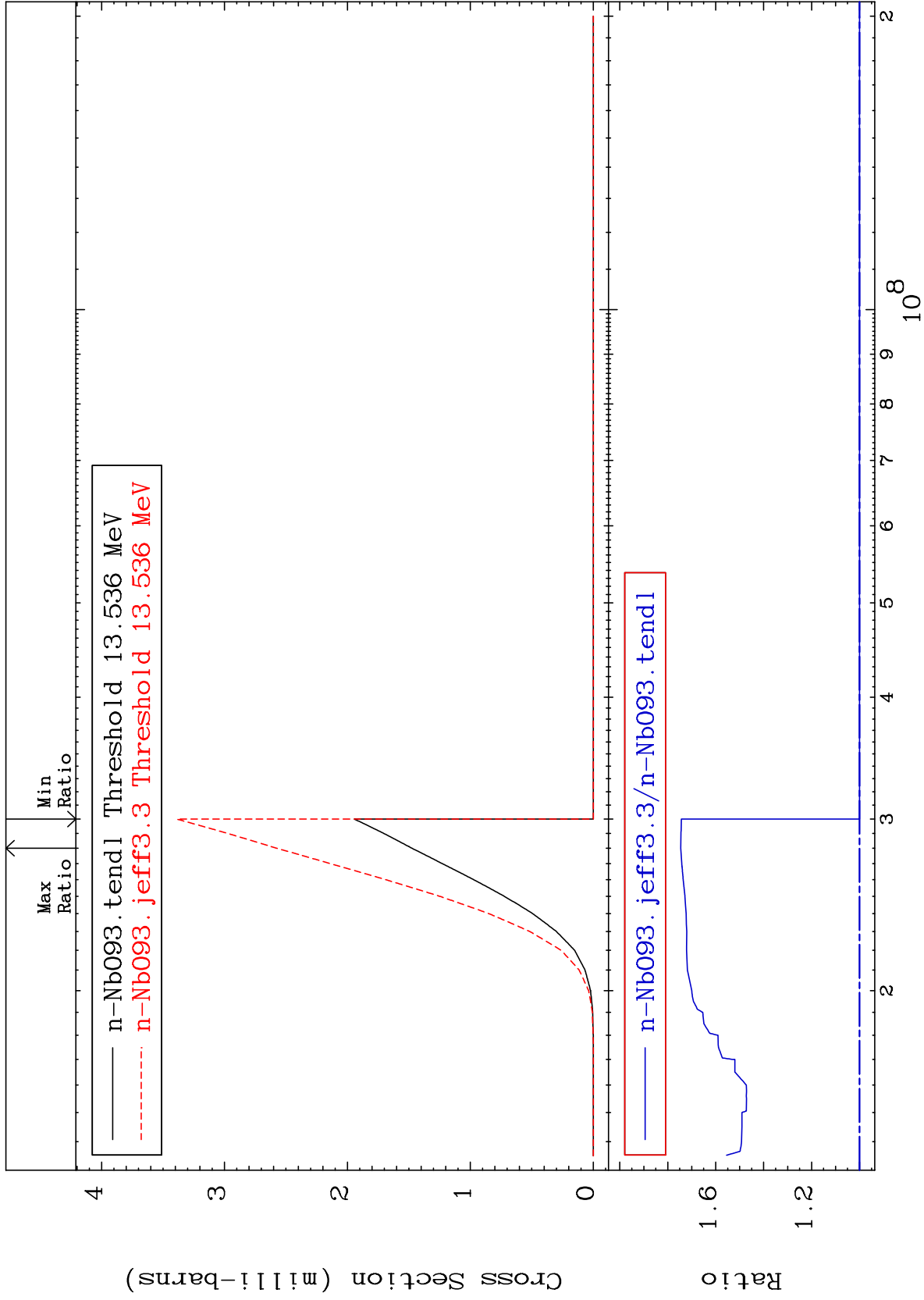
MAT 4125

(n,n') t

41-Nb-93

Cross Section

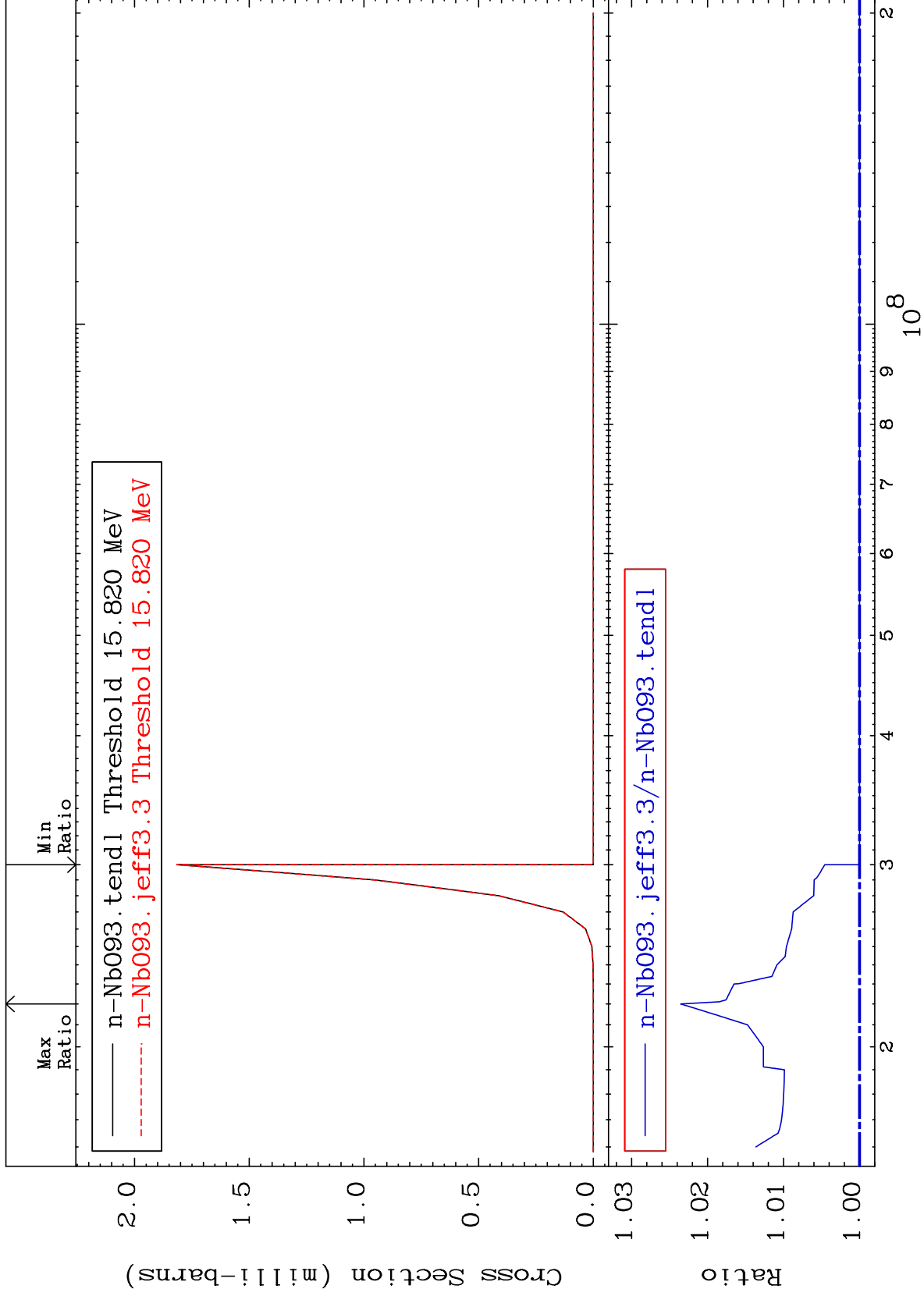
0.000 To 74.58 %



MAT 4125

(n, n') He-3
Cross Section

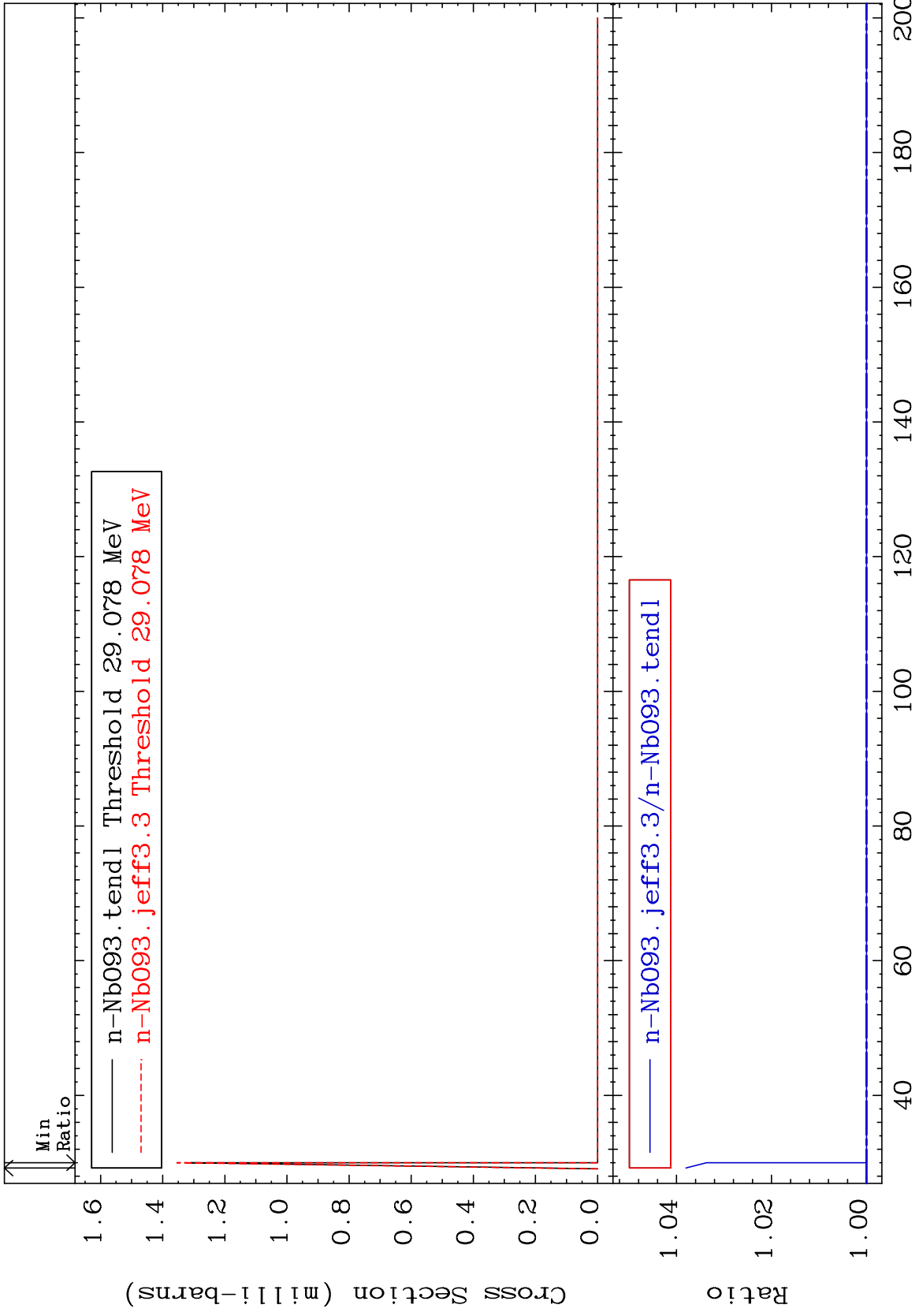
41-Nb-93
0.000 To 2.352 %

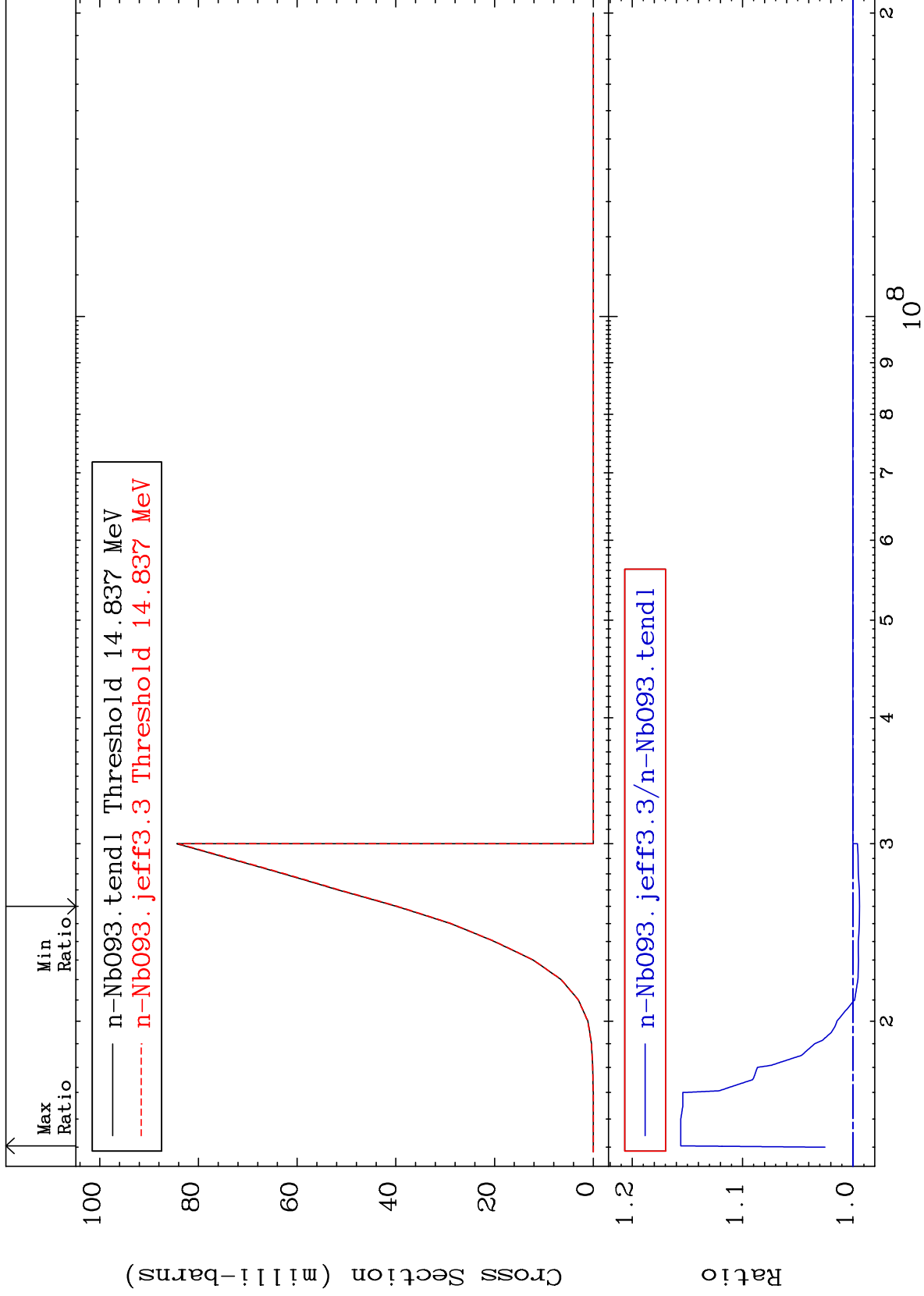


MAT 4125

(n,4n)
Cross Section

41-Nb-93
0.000 To 3.802 %

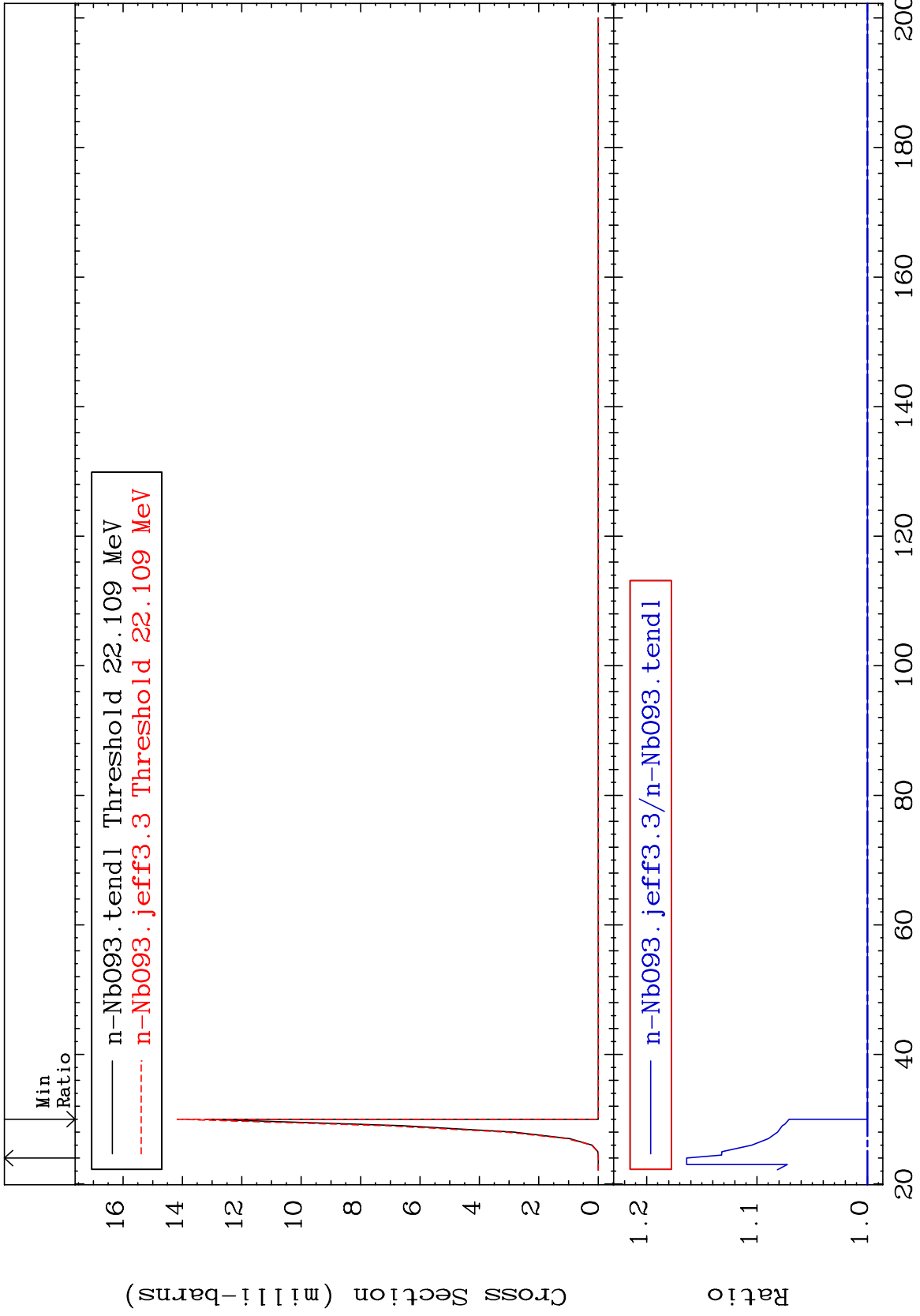




MAT 4125

(n,3n) p
Cross Section

41-Nb-93
0.000 To 16.37 %



17

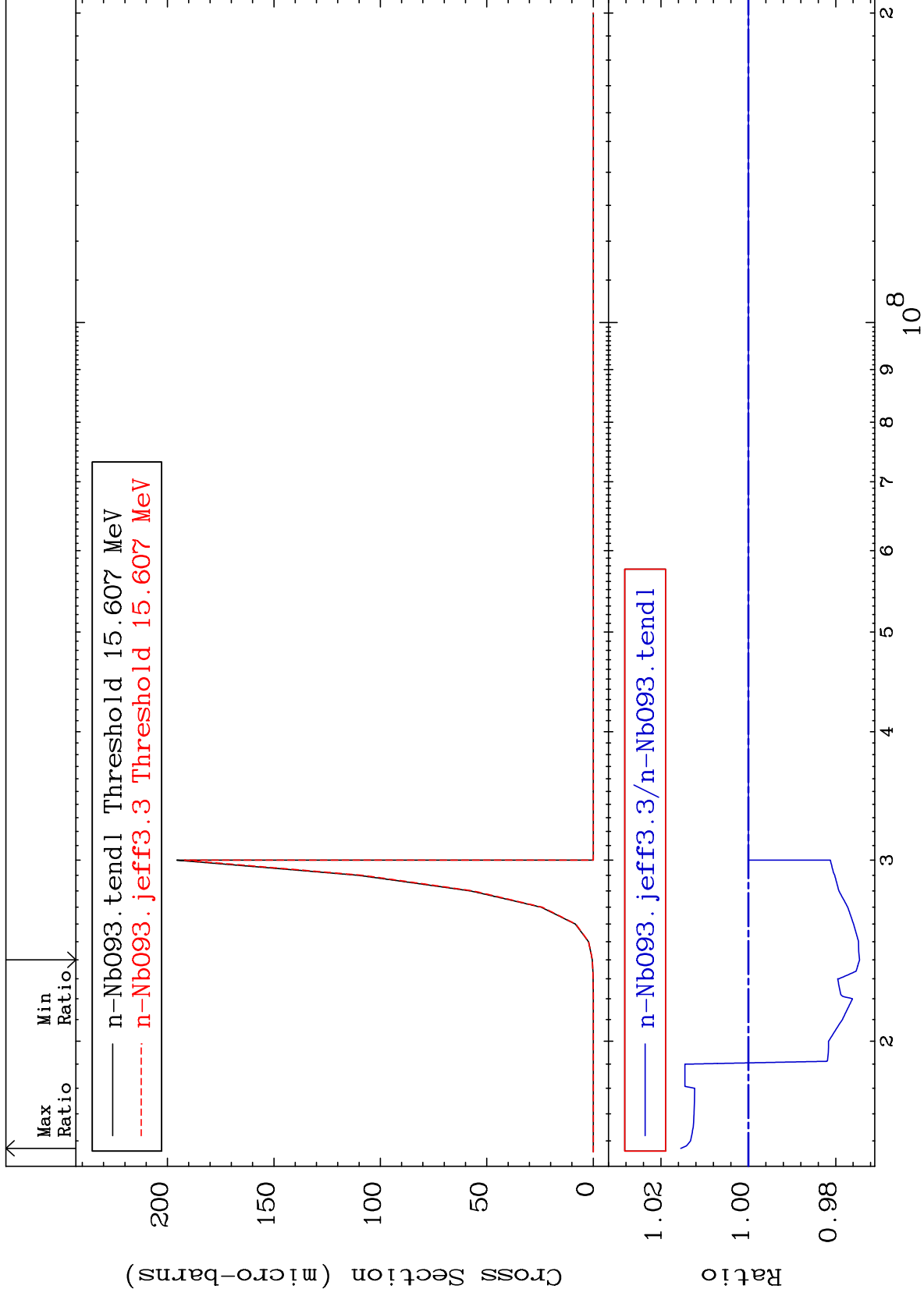
Incident Energy (MeV)

41-Nb-93

MAT 4125

(n,2n) p
Cross Section

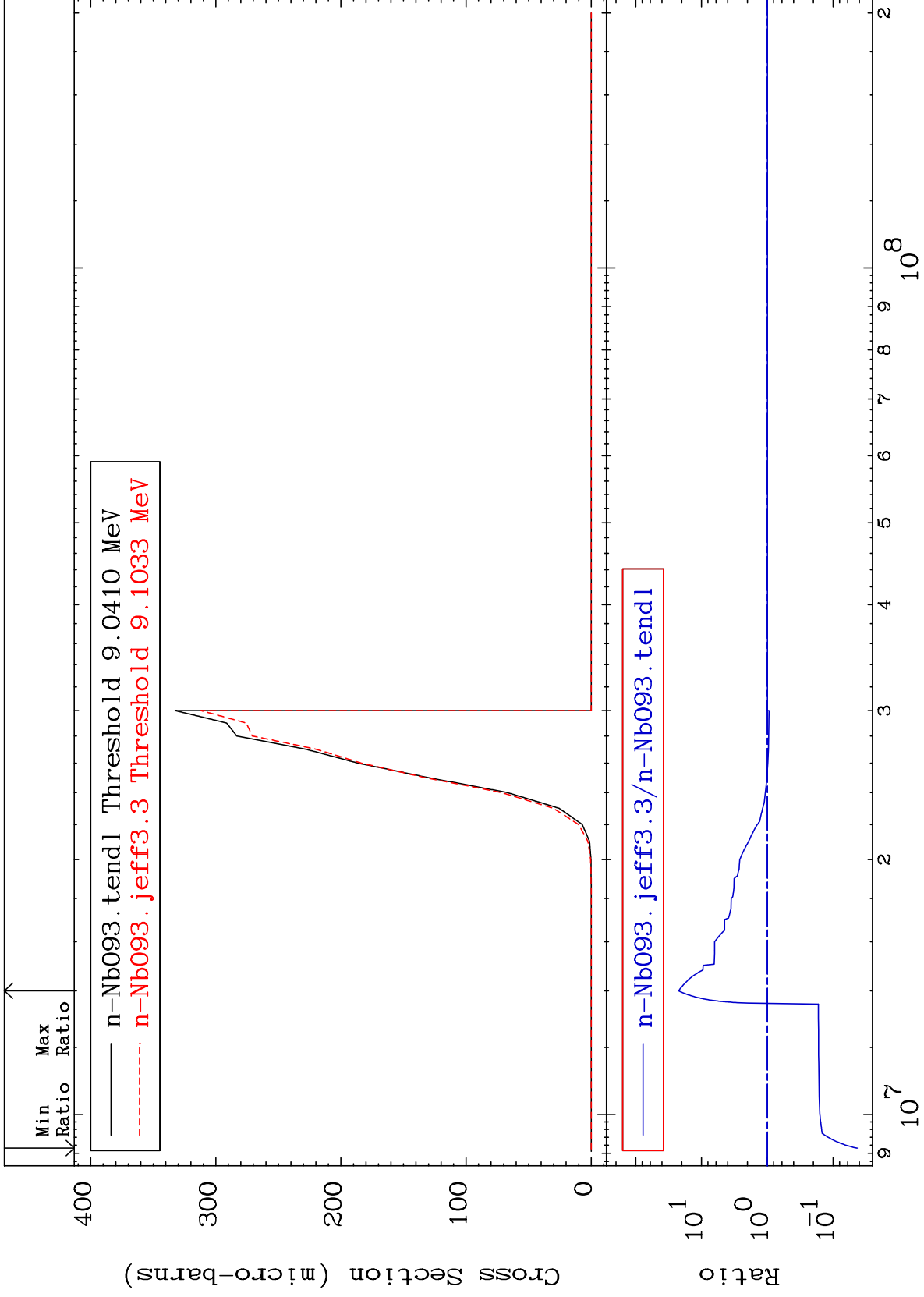
41-Nb-93
-2.546 To 1.547 %



MAT 4125

(n,n') p α
Cross Section

41-Nb-93
-95.70 To 2128. %



19

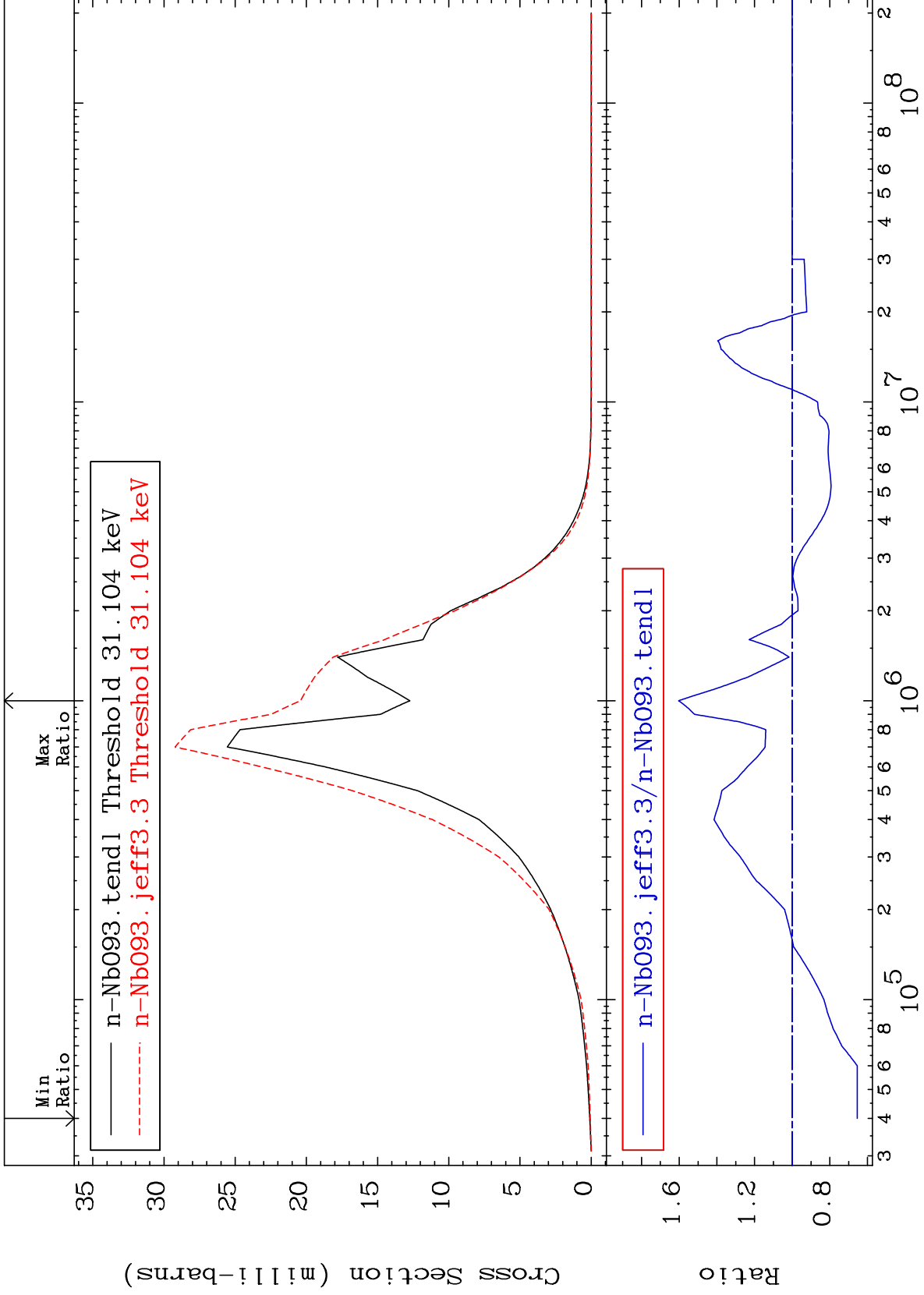
Incident Energy (eV)

41-Nb-93

MAT 4125

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

41-Nb-93
-34.54 To 60.30 %



20

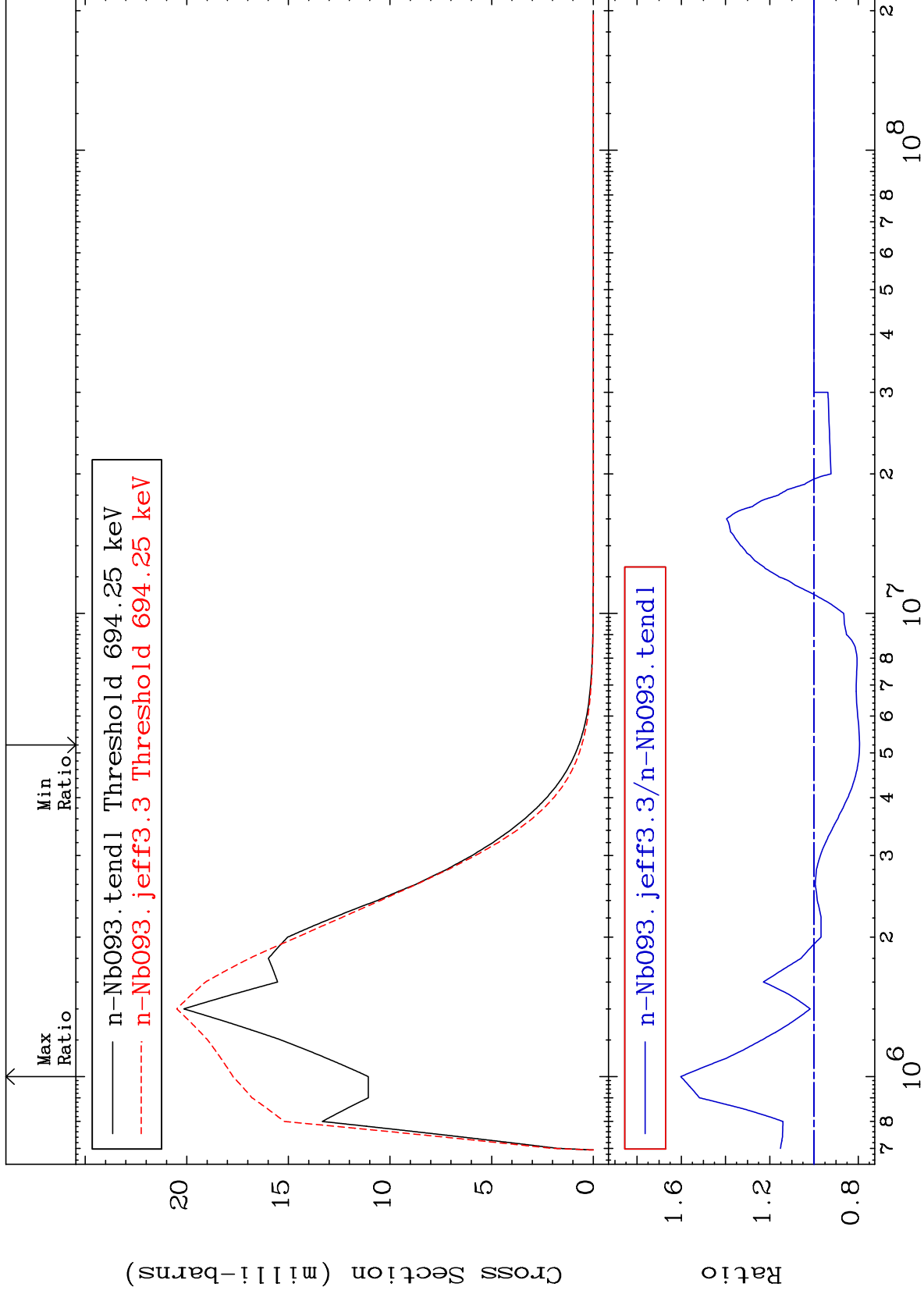
Incident Energy (eV)

41-Nb-93

MAT 4125

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

41-Nb-93
-20.60 To 60.22 %



21

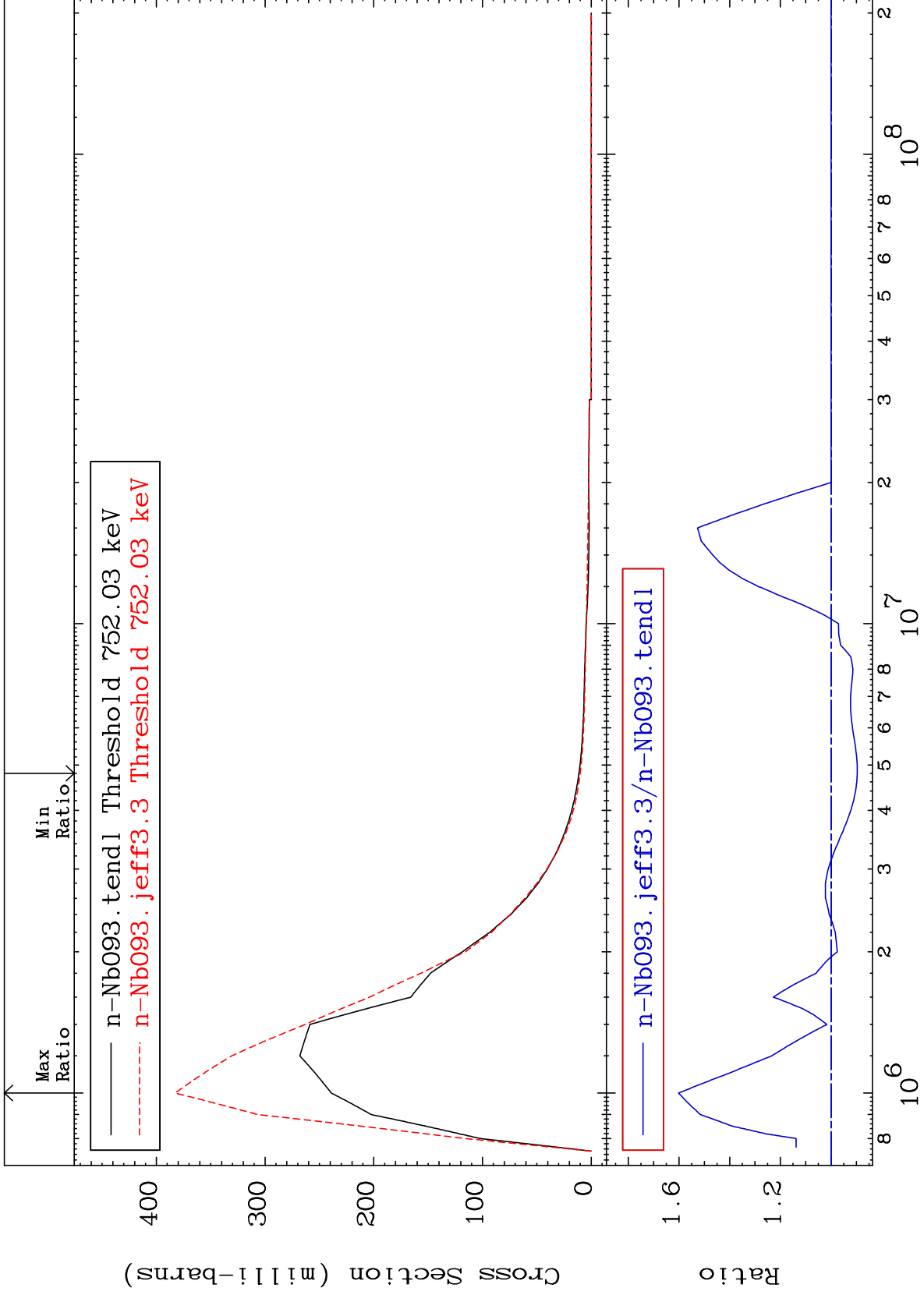
Incident Energy (eV)

41-Nb-93

MAT 4125

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

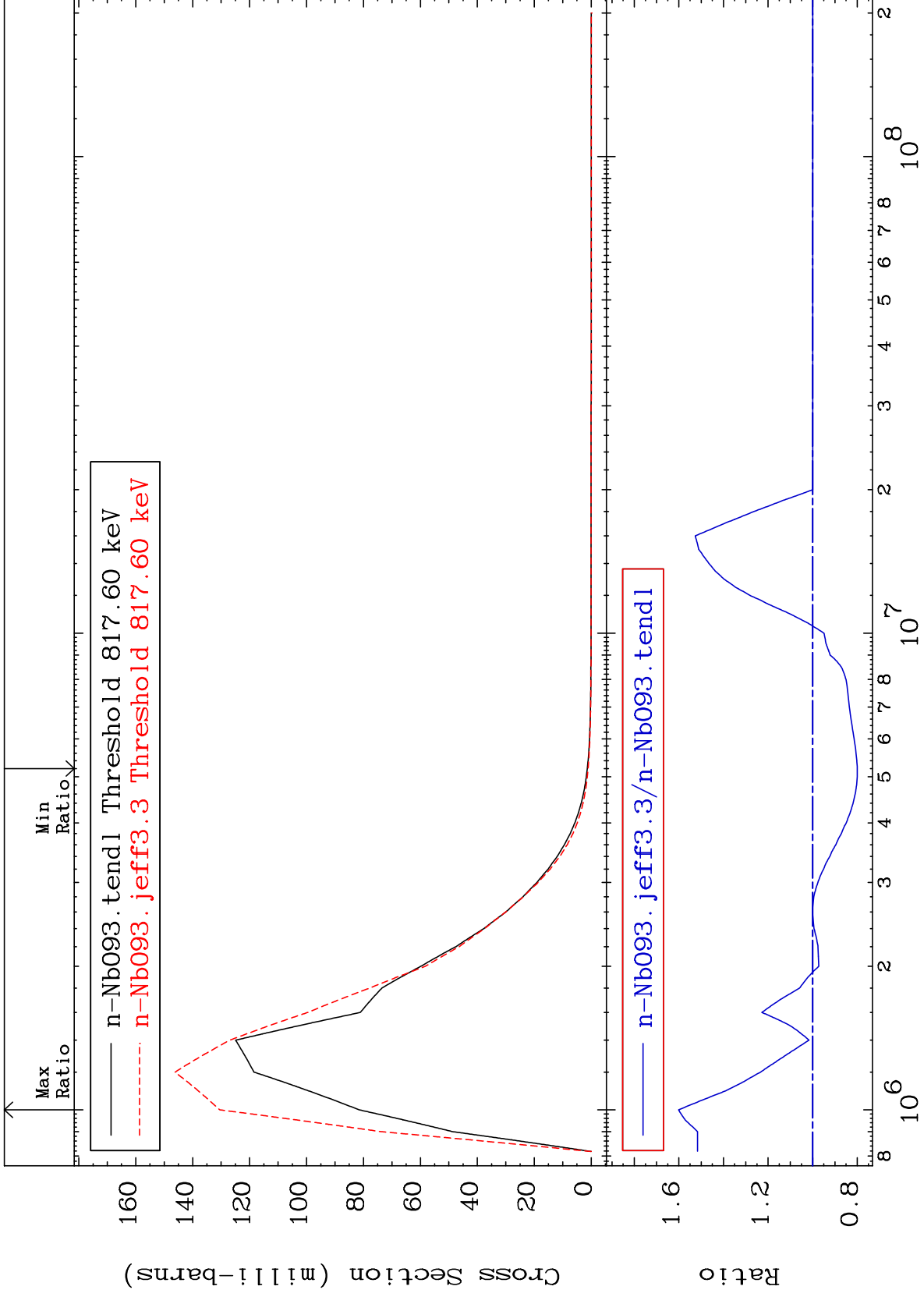
41-Nb-93
-10.32 To 60.12 %



MAT 4125

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

41-Nb-93
-20.01 To 60.11 %



23

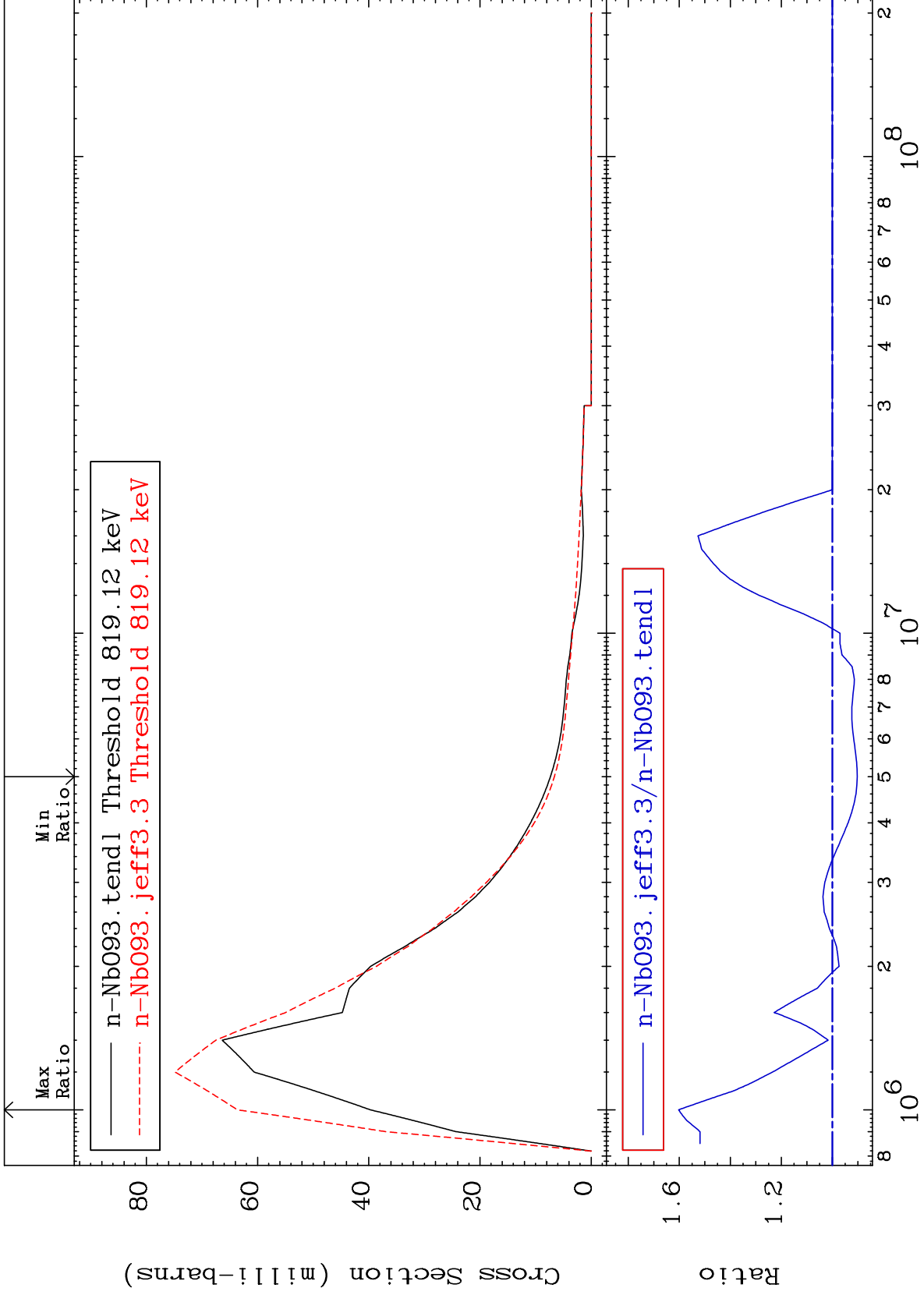
Incident Energy (eV)

41-Nb-93

MAT 4125

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

41-Nb-93
-9.746 To 60.26 %



24

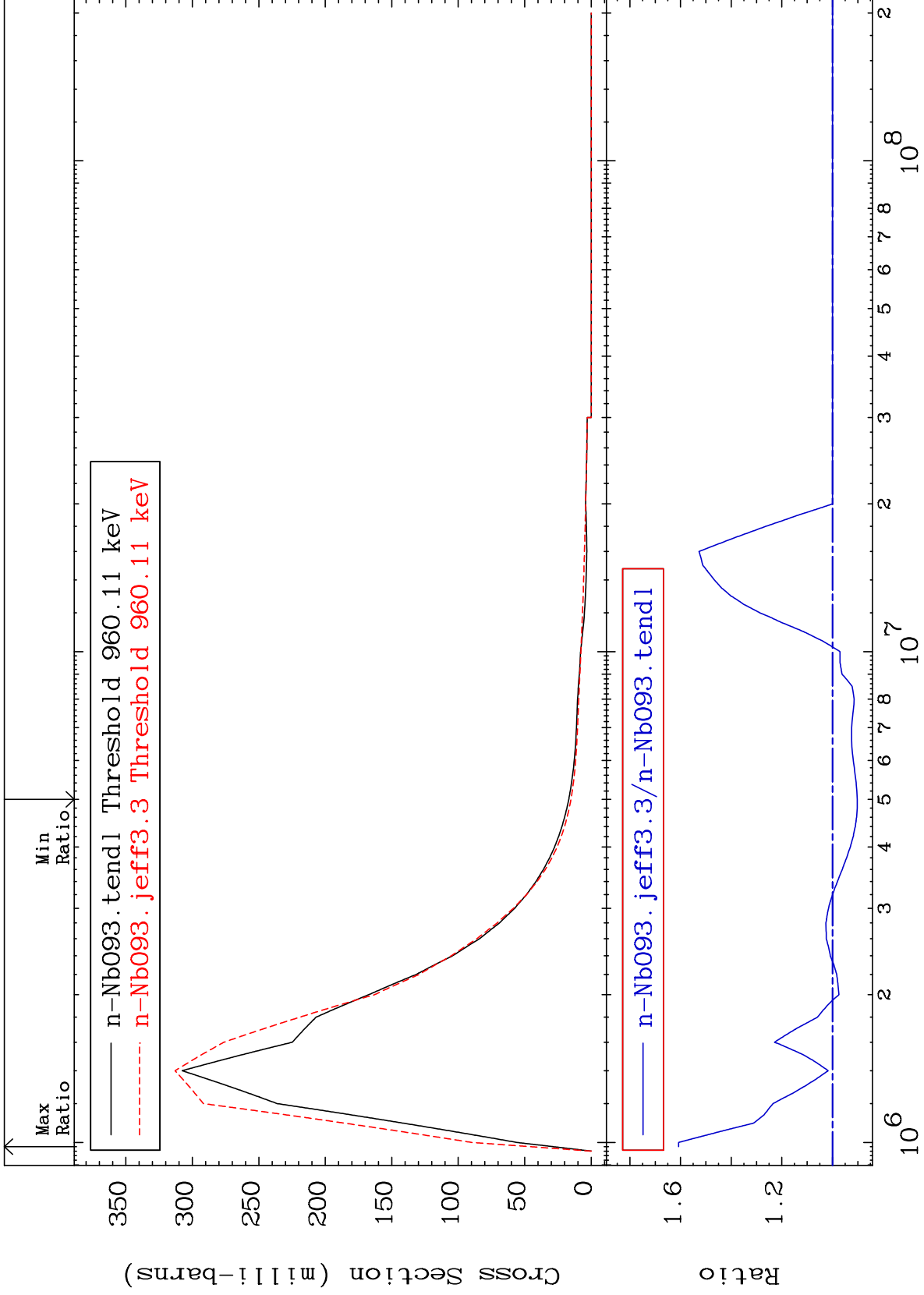
Incident Energy (eV)

41-Nb-93

MAT 4125

MT= 56 (n,n') Level
Cross Section

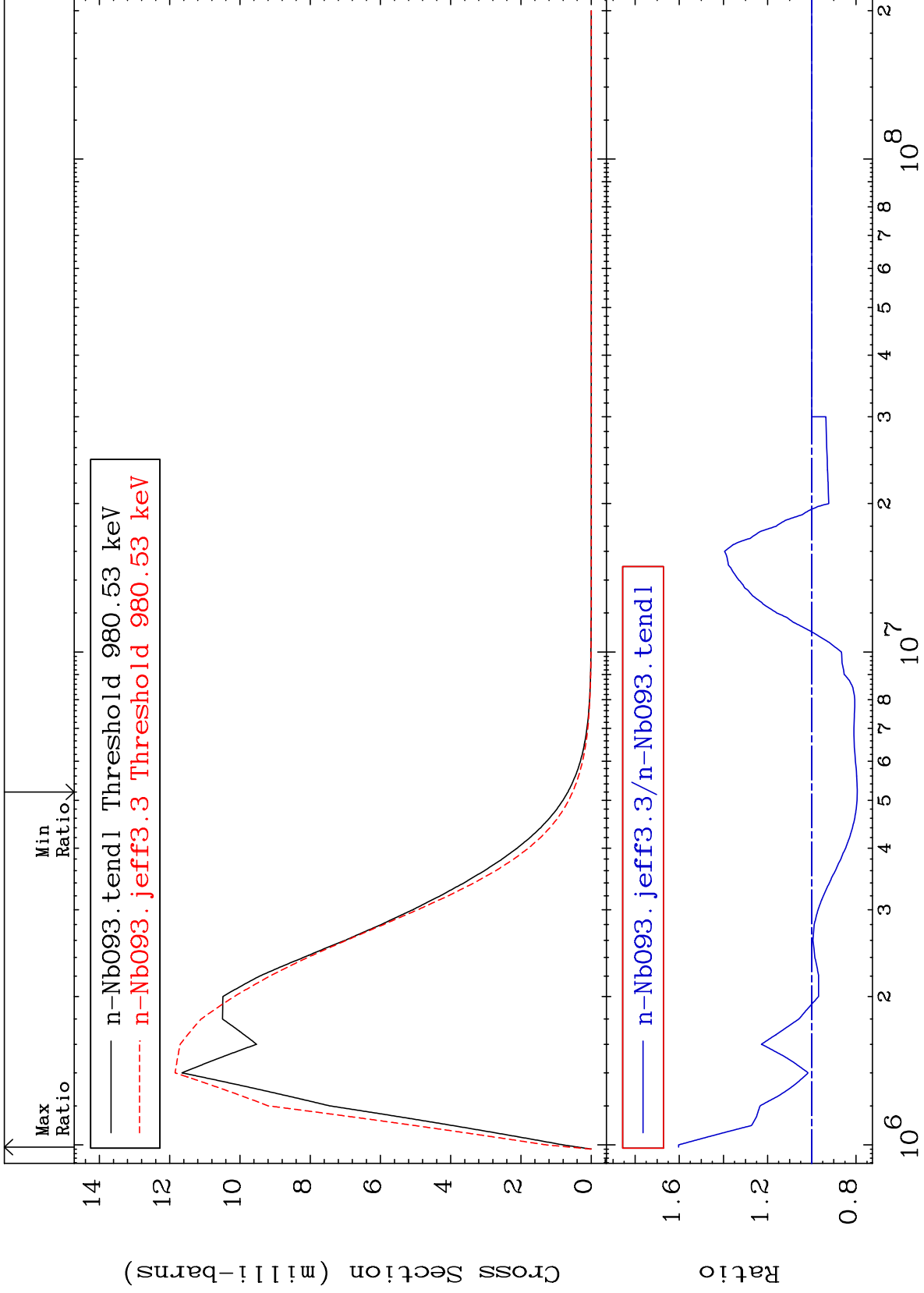
41-Nb-93
-9.788 To 60.75 %



MAT 4125

MT= 57 (n,n') Level
Cross Section

41-Nb-93
-20.60 To 60.28 %



26

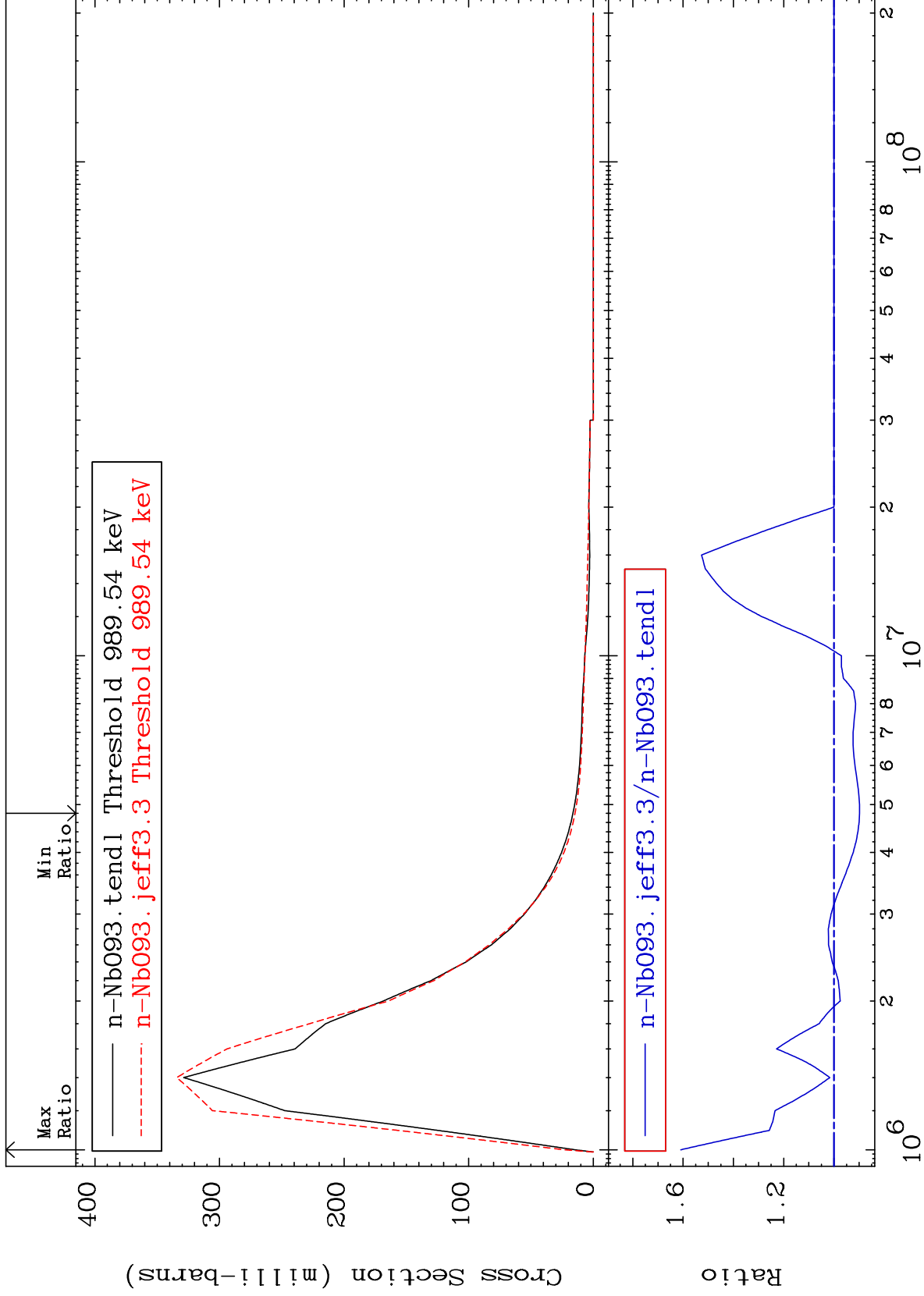
Incident Energy (eV)

41-Nb-93

MAT 4125

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

41-Nb-93
-10.16 To 60.93 %



27

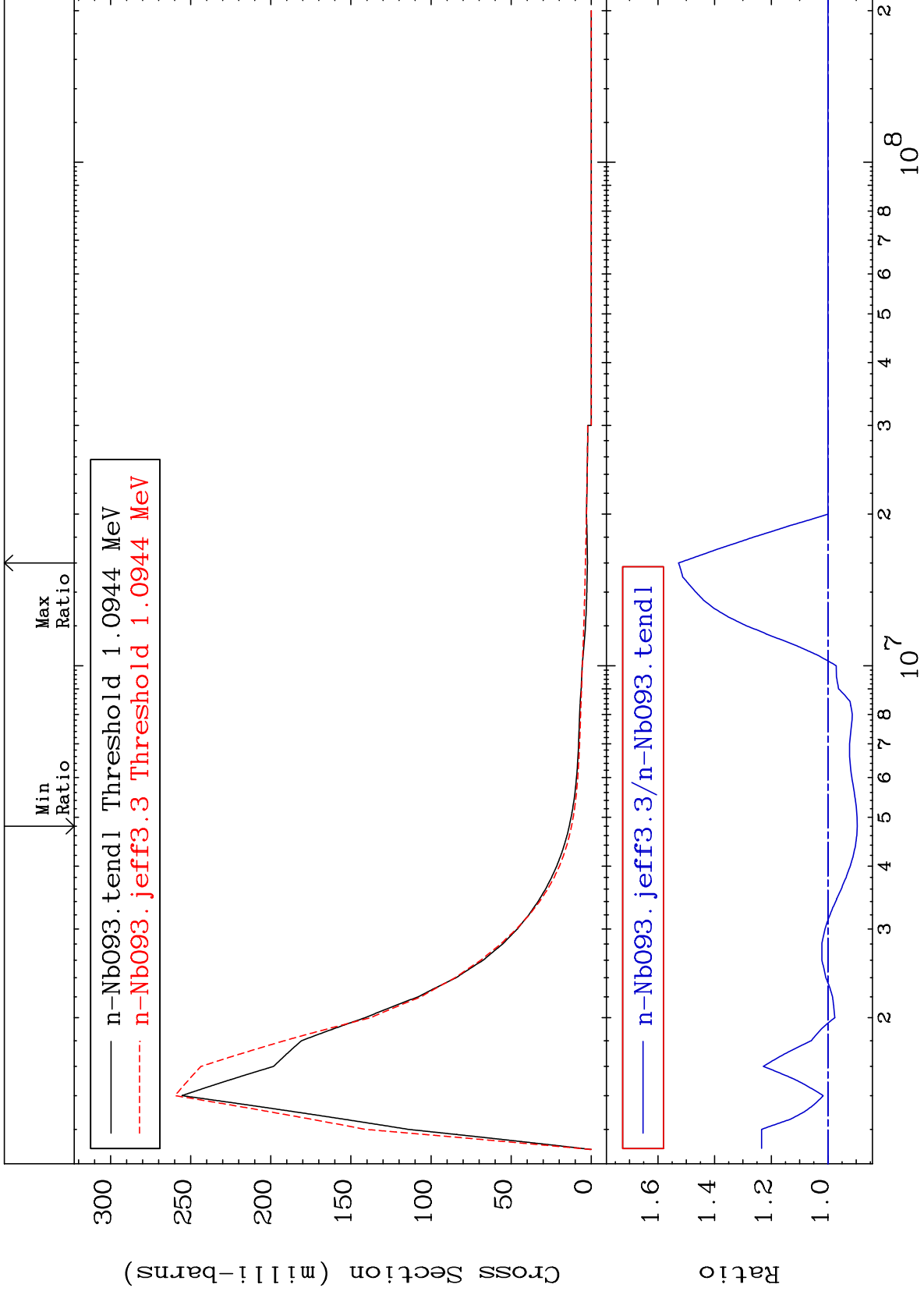
Incident Energy (eV)

41-Nb-93

MAT 4125

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

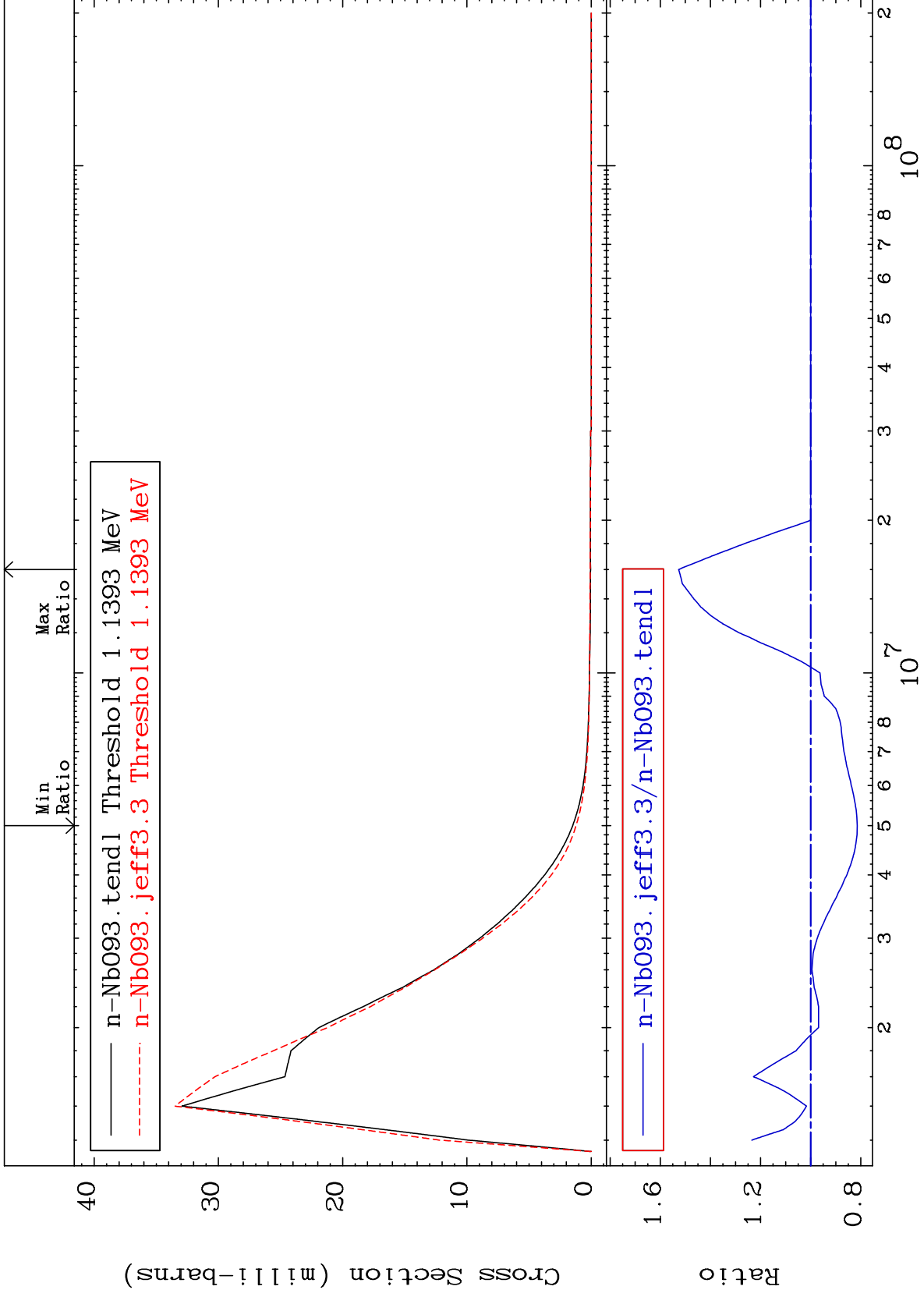
41-Nb-93
-10.35 To 52.69 %



MAT 4125

MT= 60 (n,n') Level
Cross Section

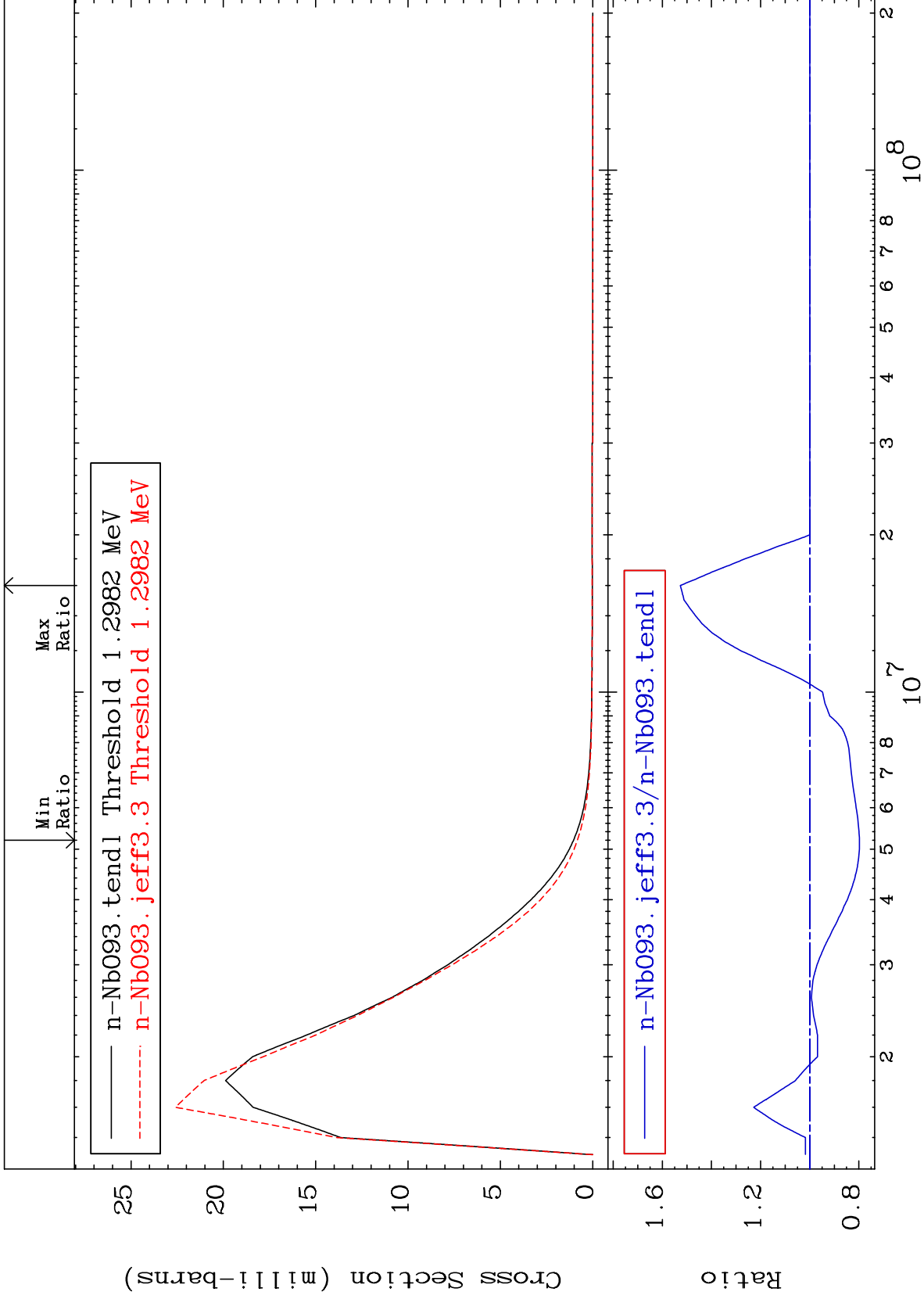
41-Nb-93
-18.57 To 52.68 %



MAT 4125

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

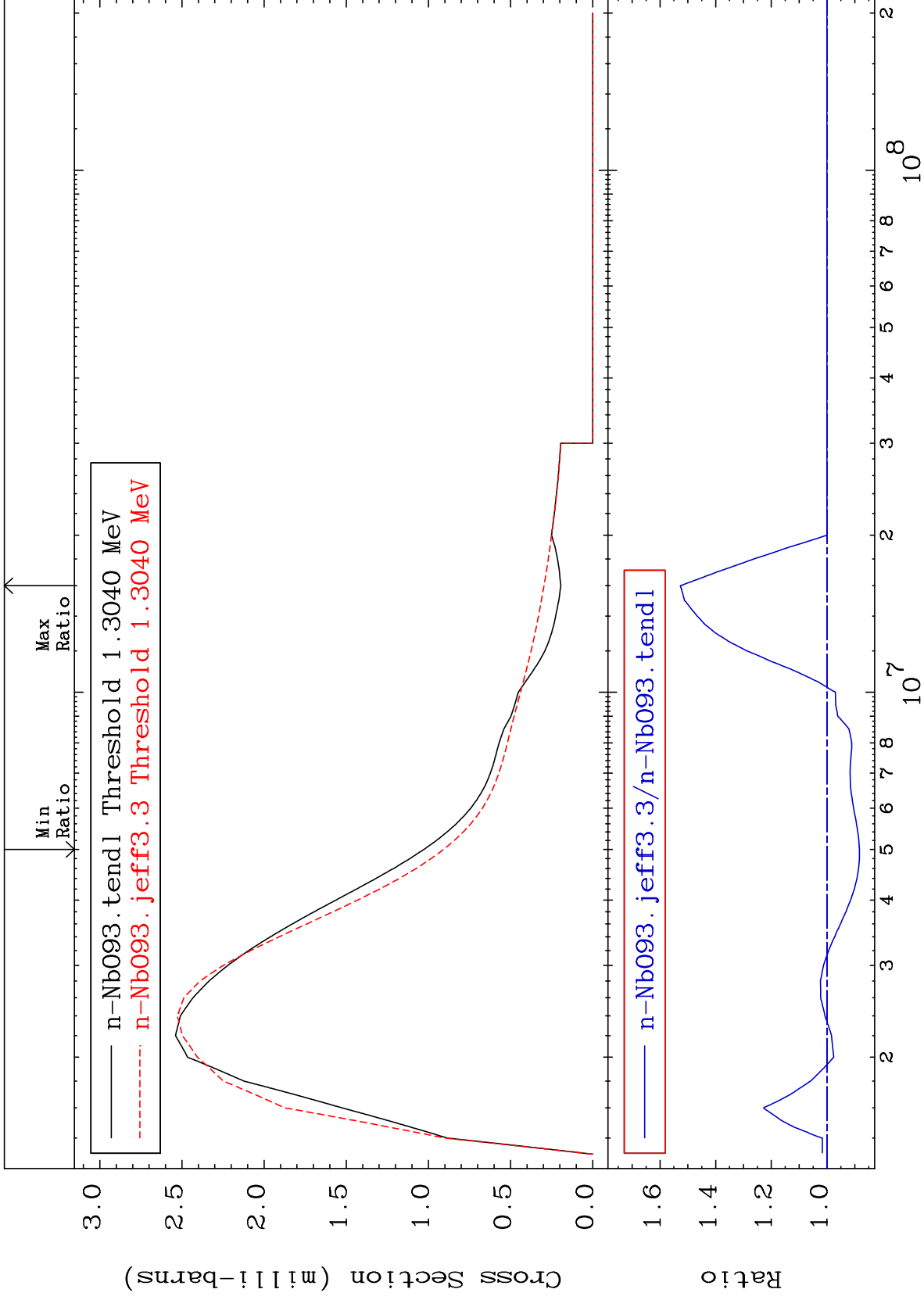
41-Nb-93
-20.23 To 52.66 %



30

Incident Energy (eV)

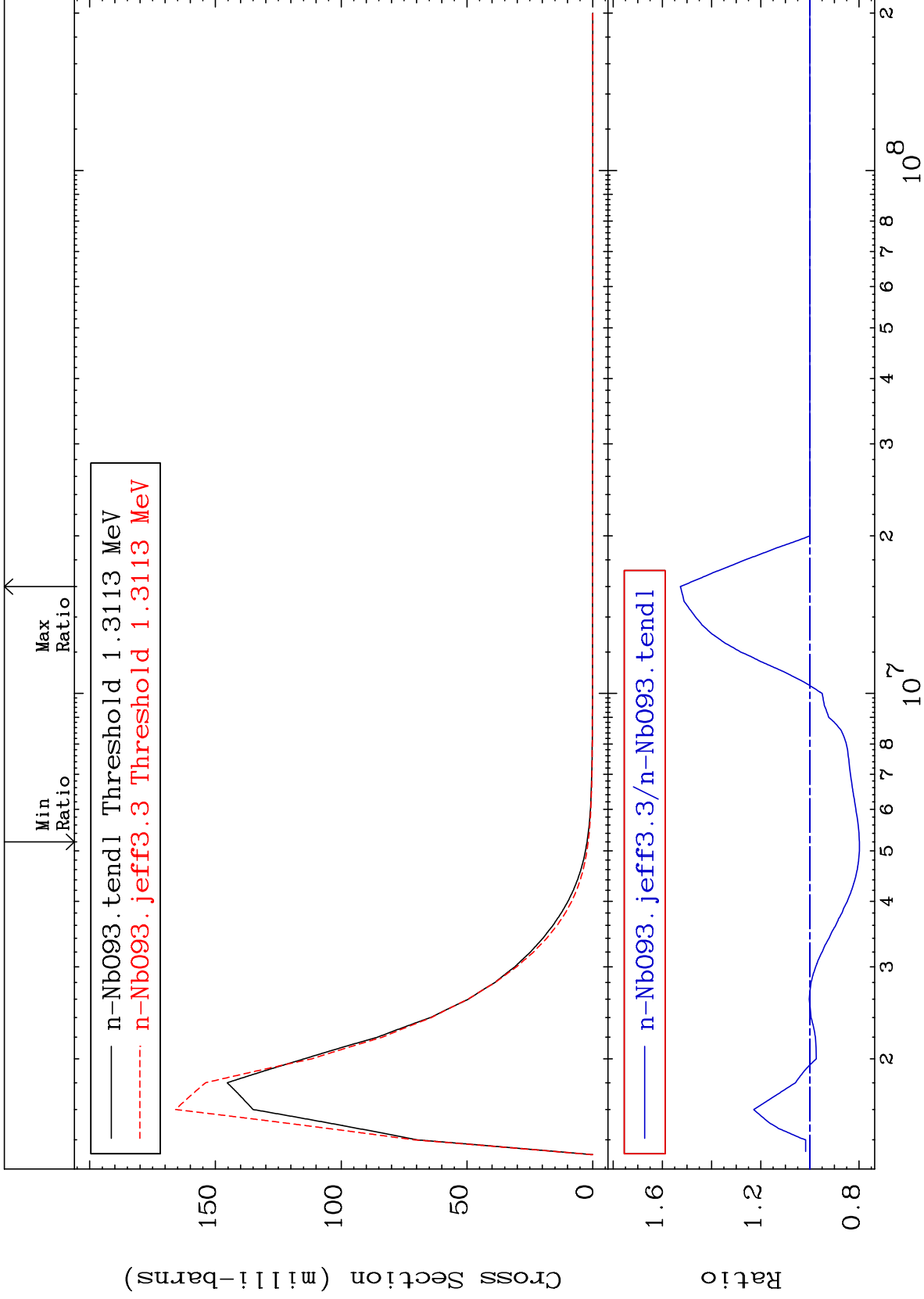
41-Nb-93

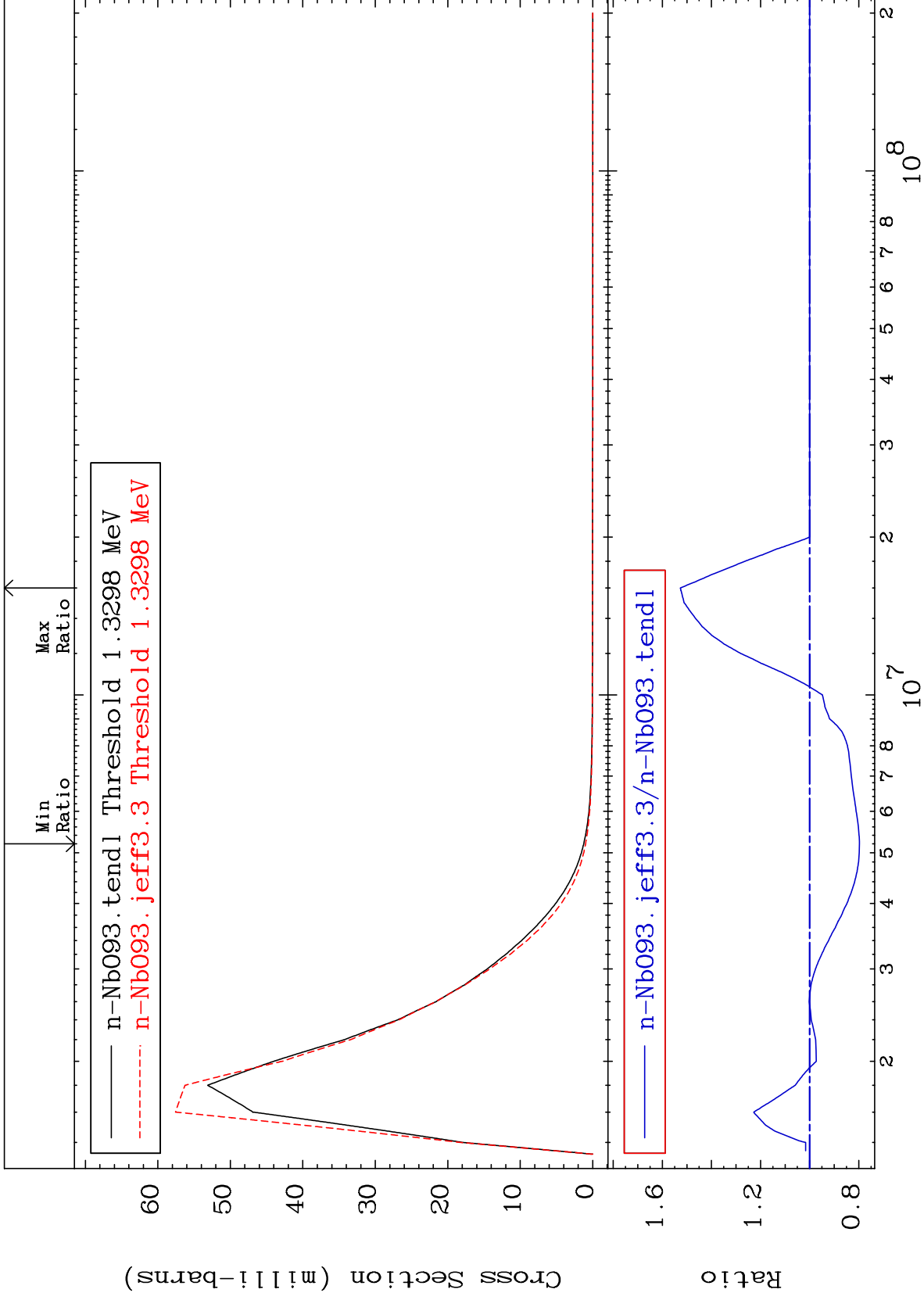


MAT 4125

MT= 63 (n,n') Level
Cross Section

41-Nb-93
-20.13 To 52.66 %

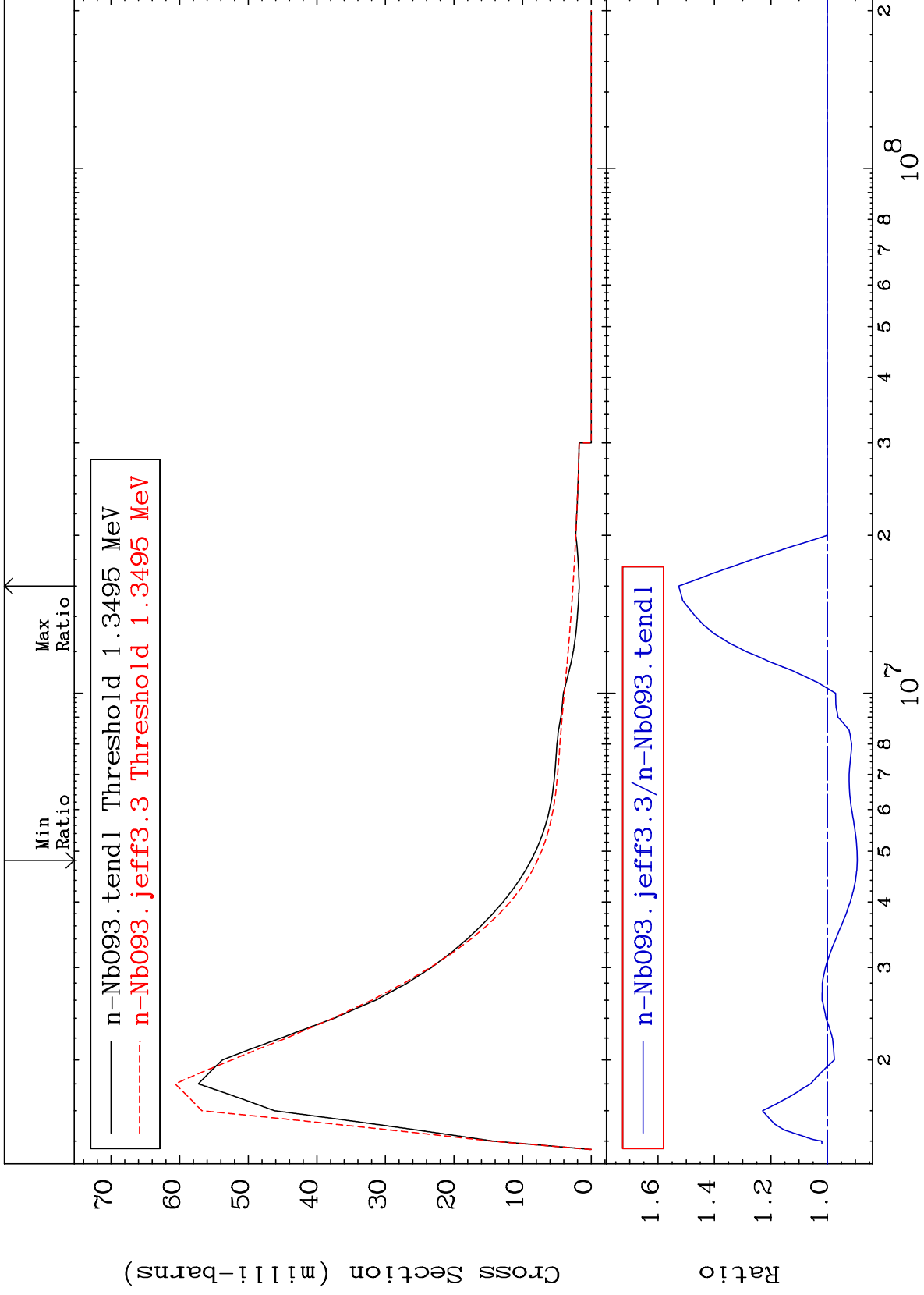




MAT 4125

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

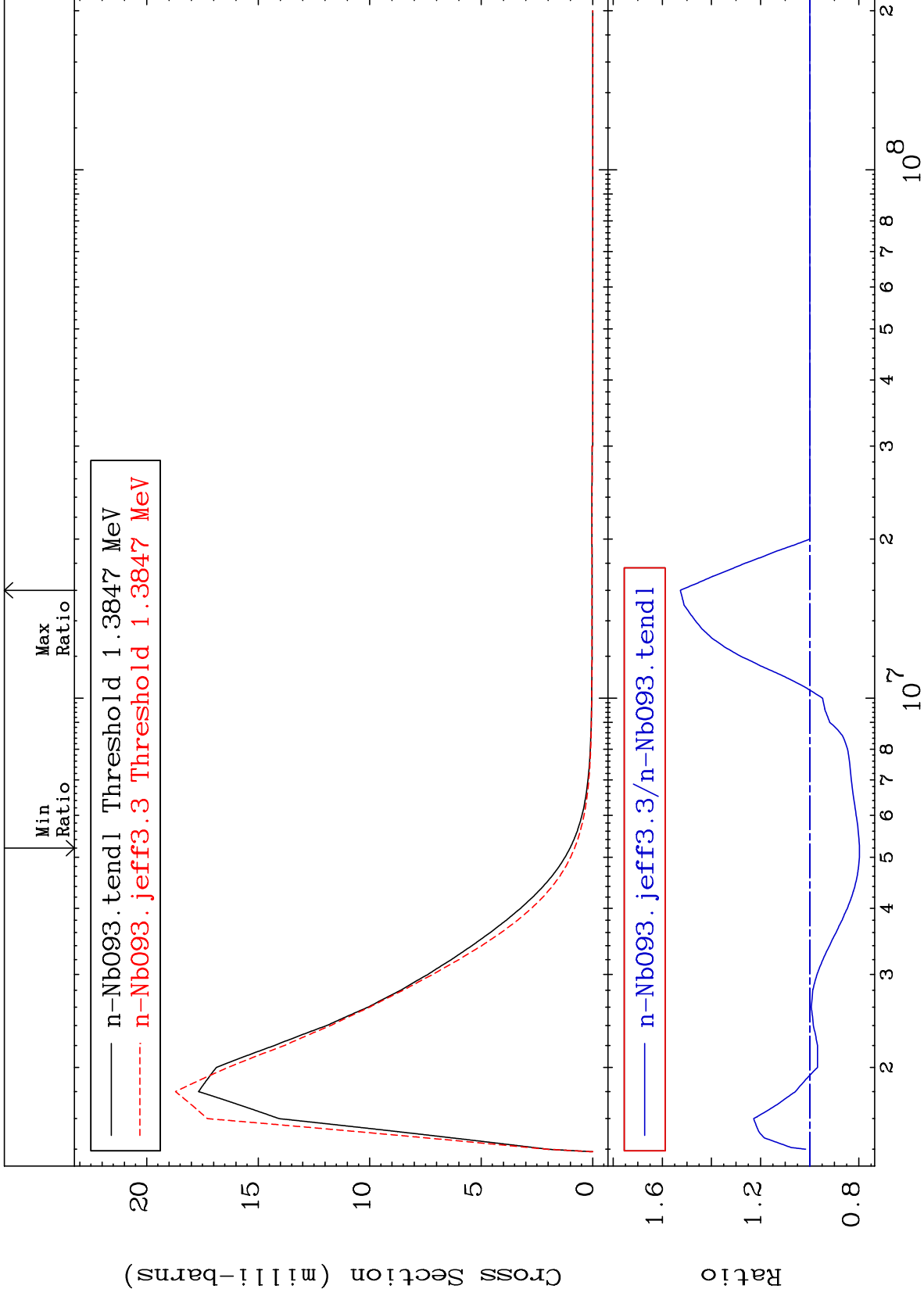
41-Nb-93
-10.64 To 52.69 %



MAT 4125

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

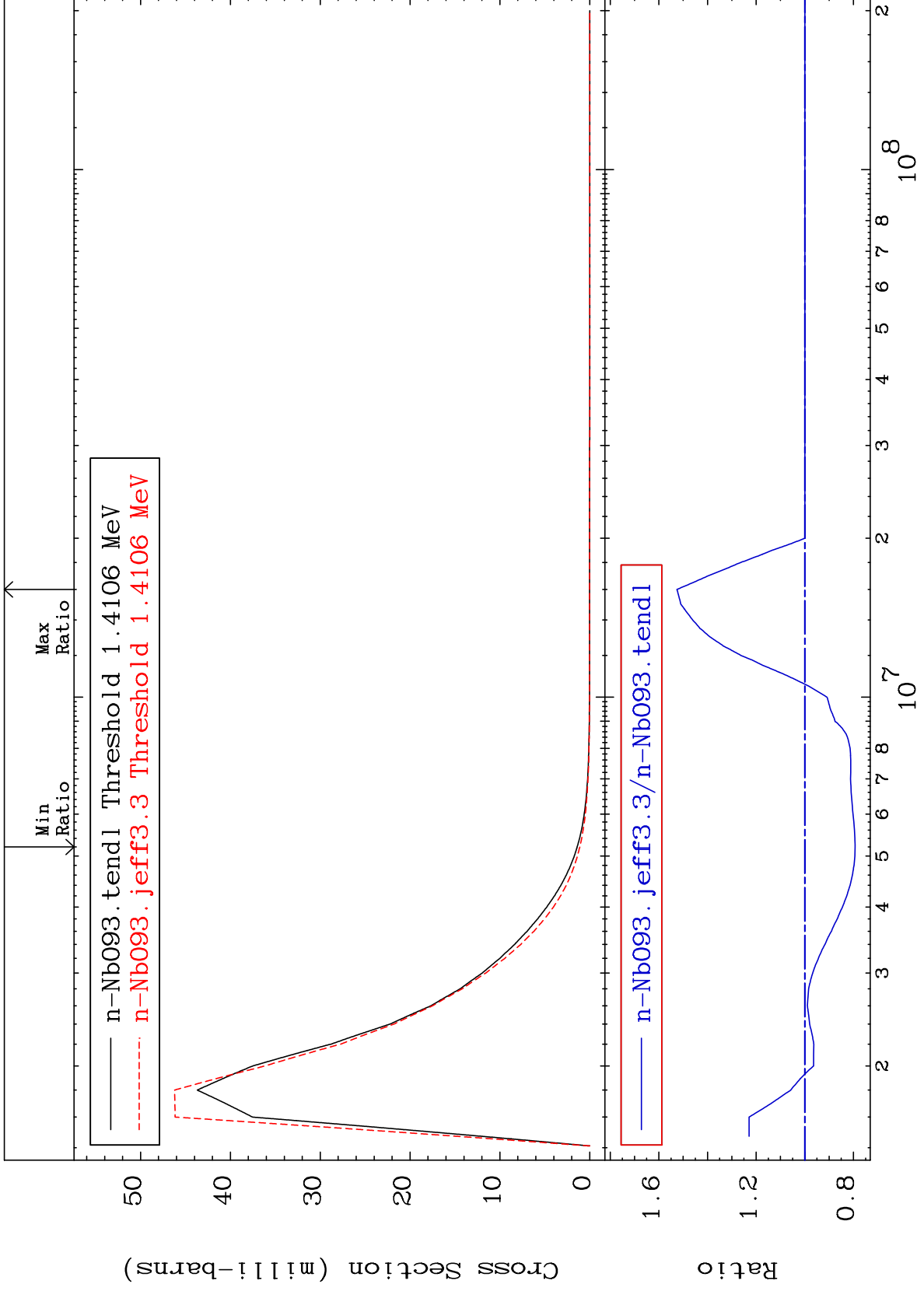
41-Nb-93
-20.22 To 52.66 %



MAT 4125

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

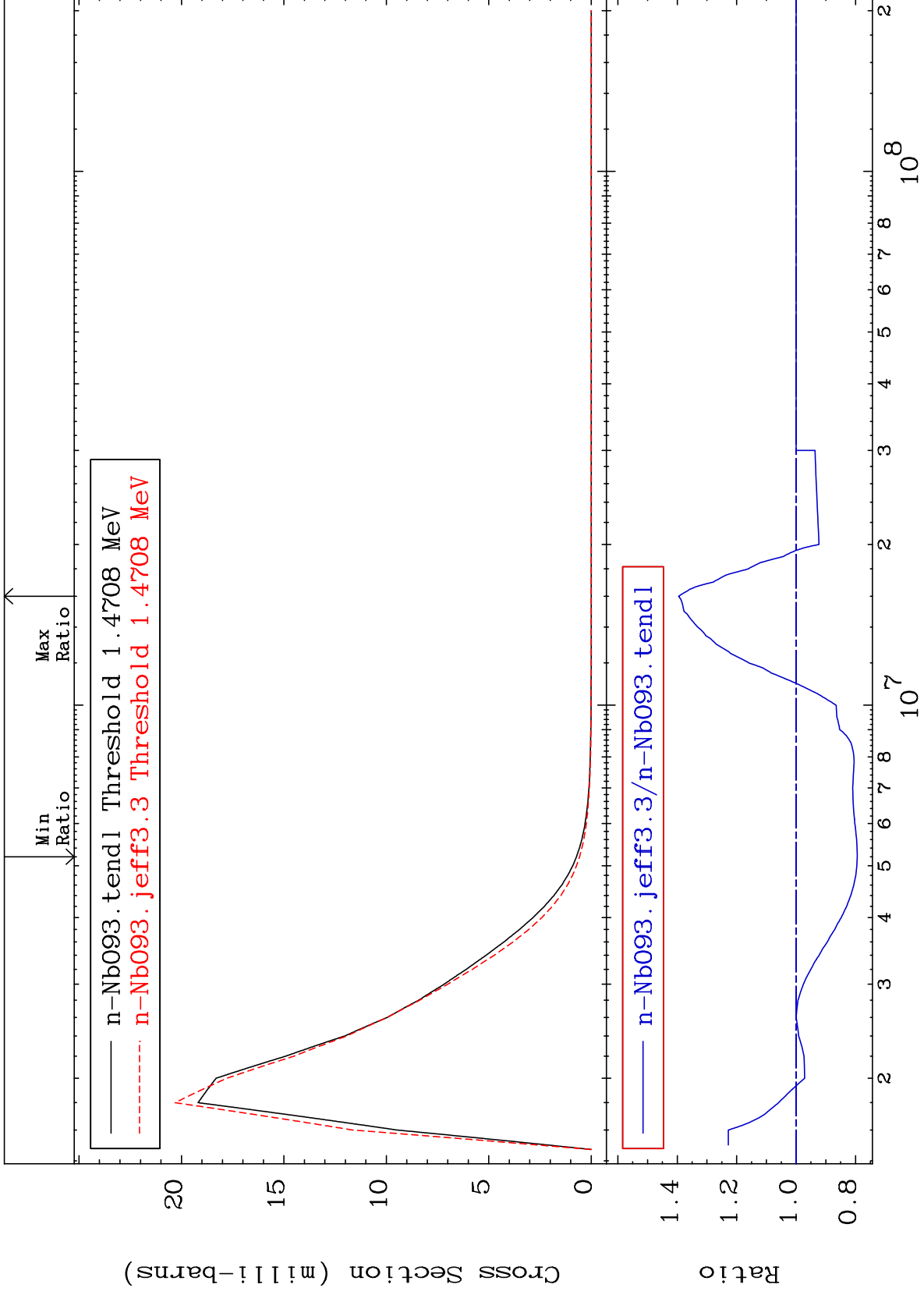
41-Nb-93
-20.68 To 52.56 %



MAT 4125

MT= 68 (n,n') Level
Cross Section

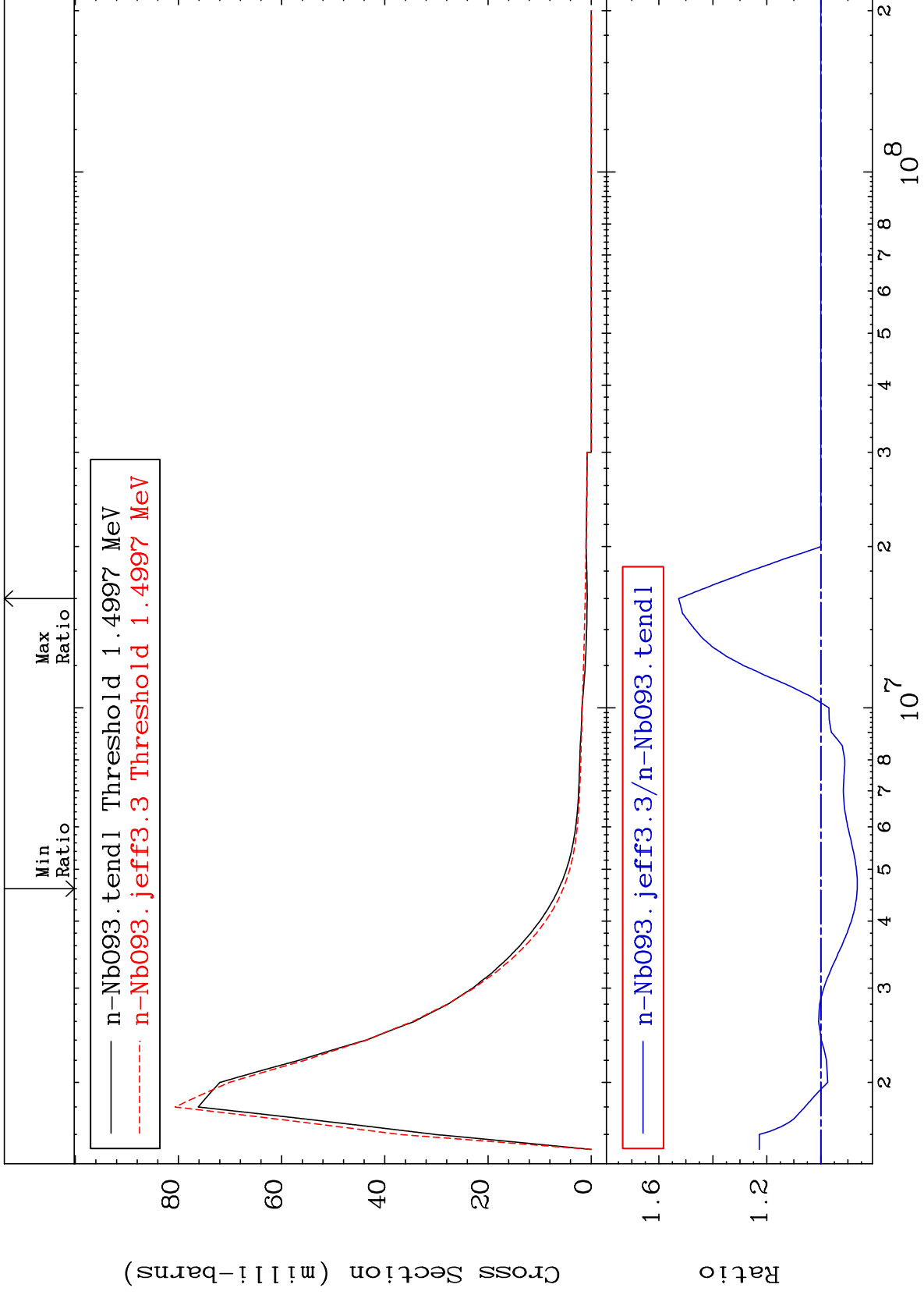
41-Nb-93
-20.58 To 39.53 %

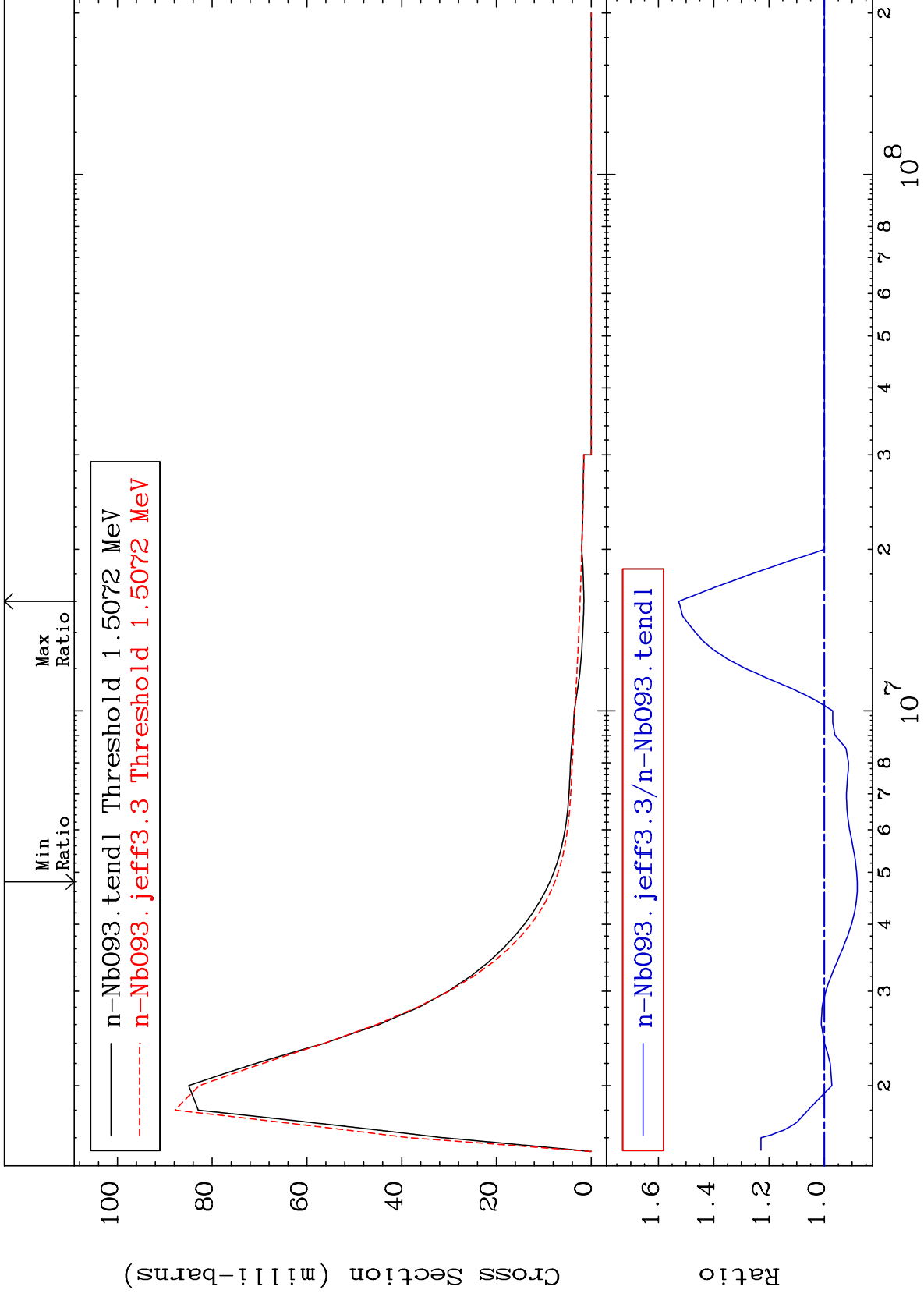


MAT 4125

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

41-Nb-93
-13.48 To 52.69 %

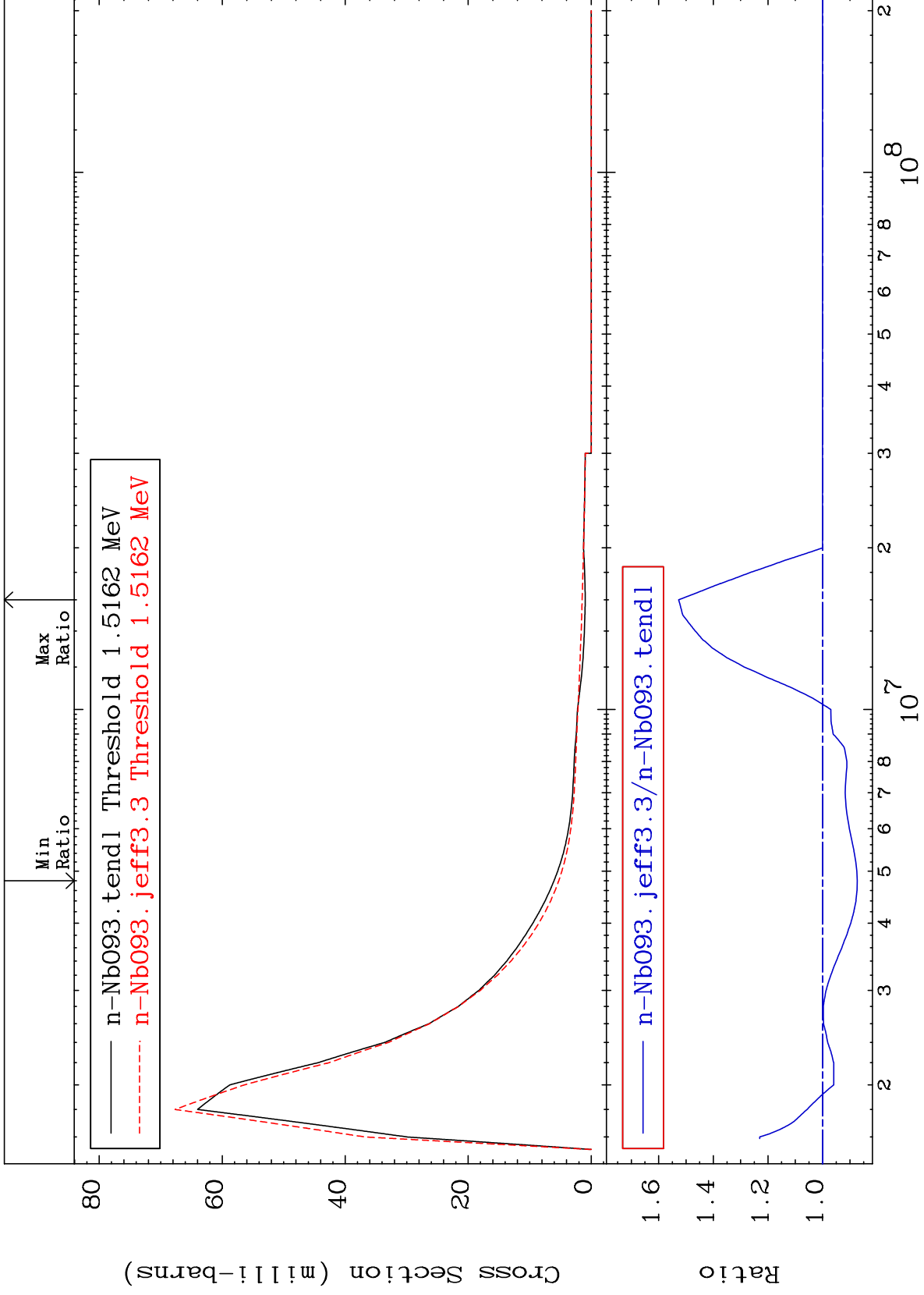




MAT 4125

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

41-Nb-93
-12.67 To 52.69 %



40

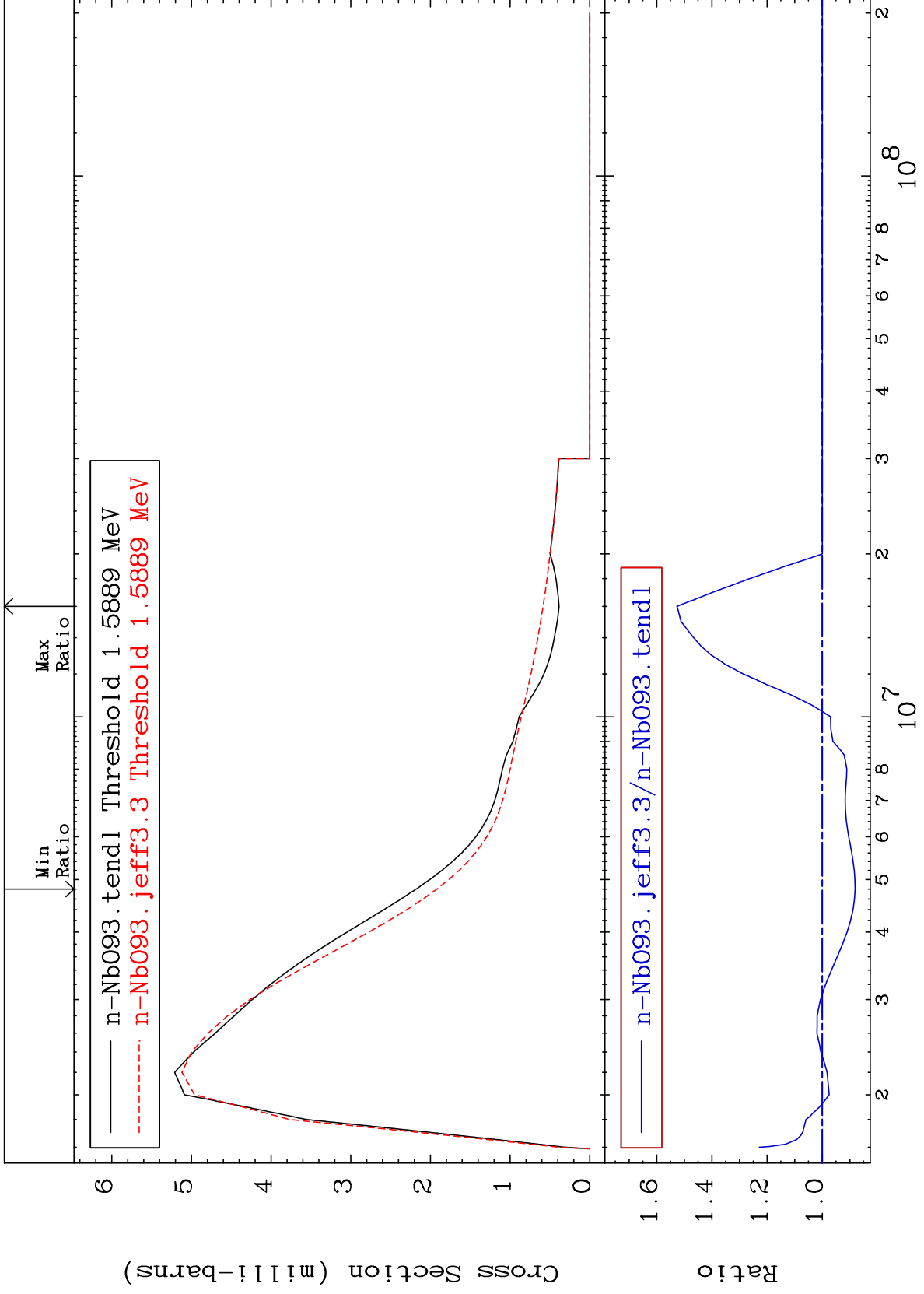
Incident Energy (eV)

41-Nb-93

MAT 4125

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

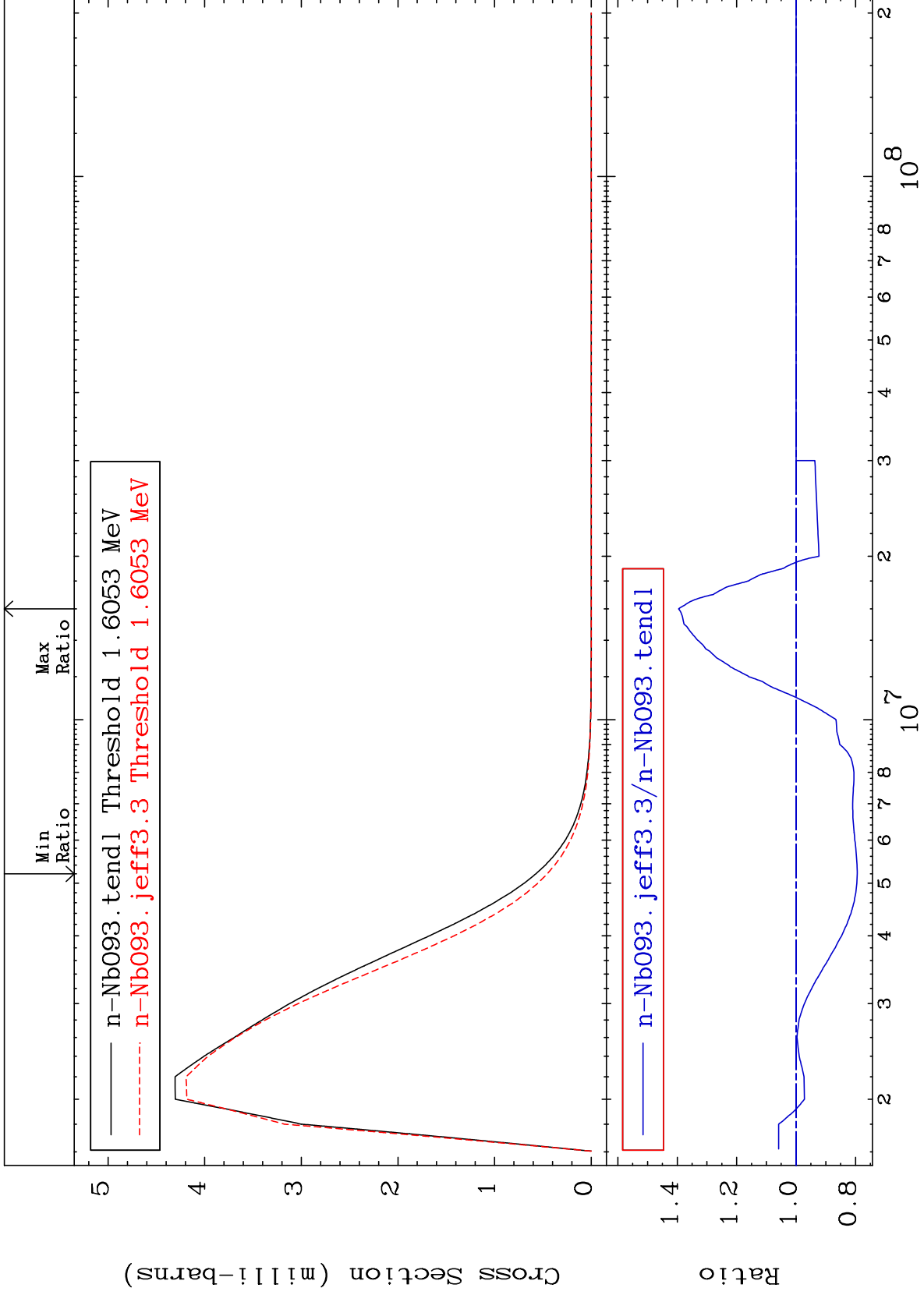
41-Nb-93
-11.90 To 52.69 %



MAT 4125

MT= 73 (n,n') Level
Cross Section

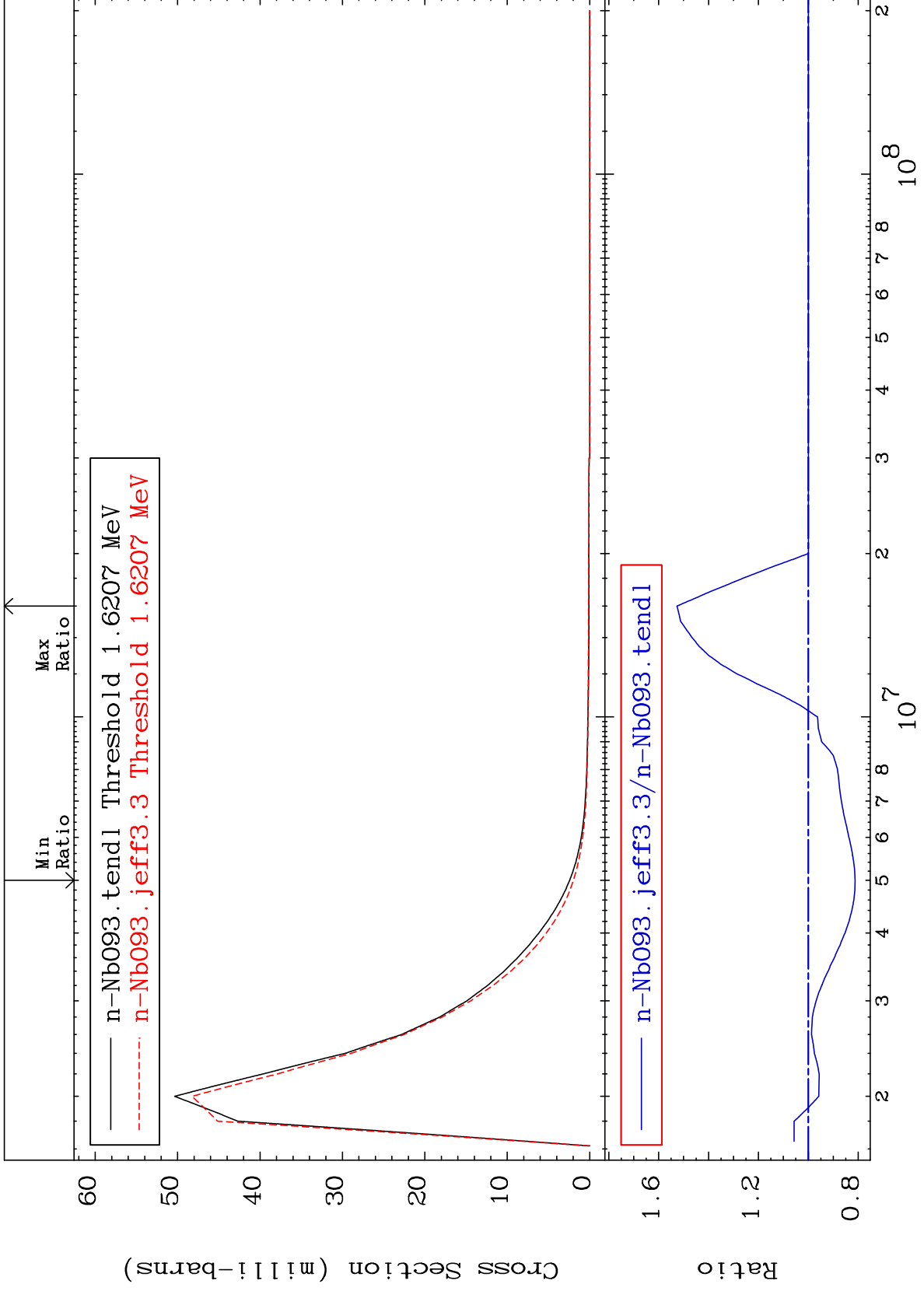
41-Nb-93
-20.59 To 39.53 %



MAT 4125

MT= 74 (n,n') Level
Cross Section

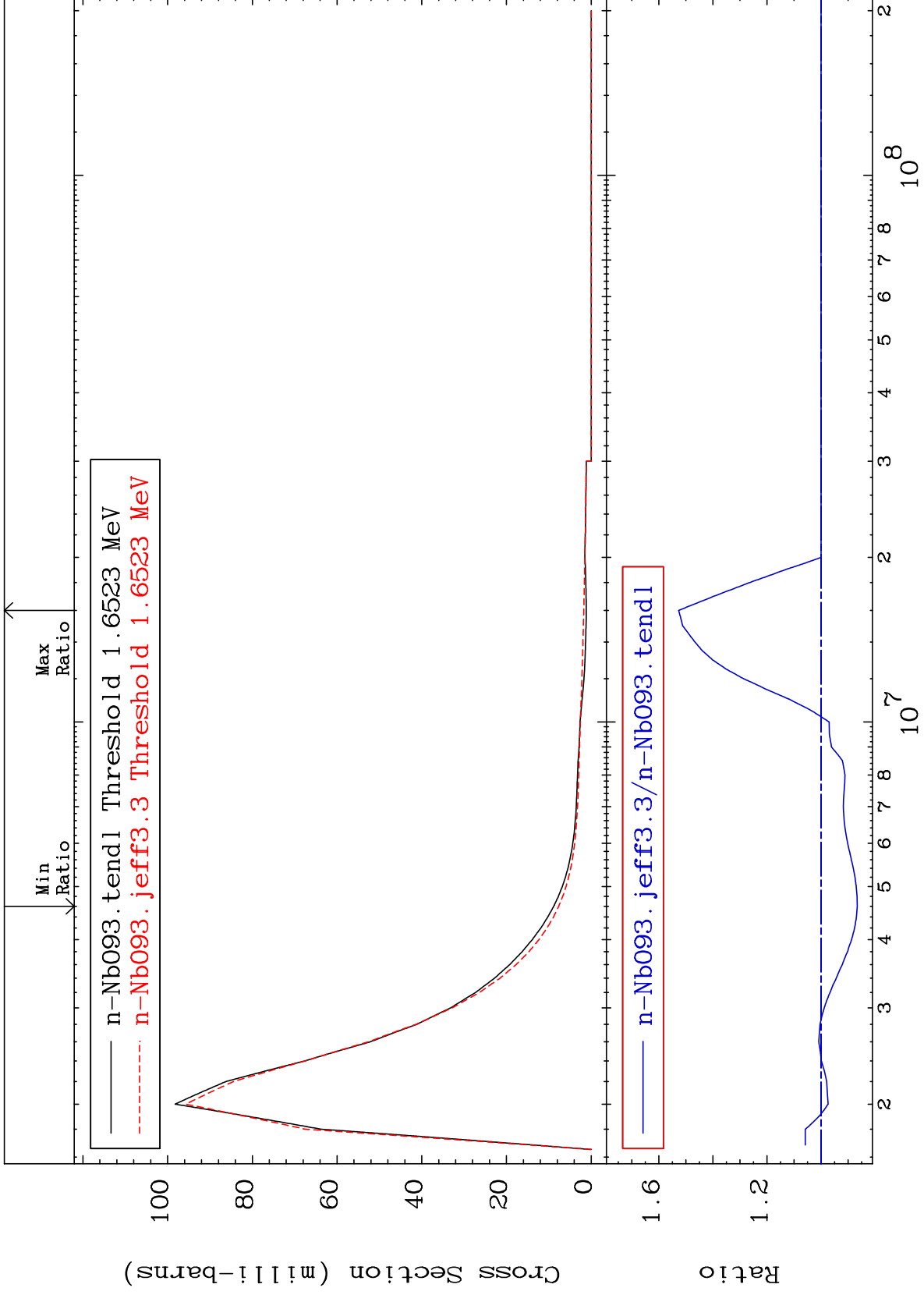
41-Nb-93
-18.75 To 52.68 %



MAT 4125

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

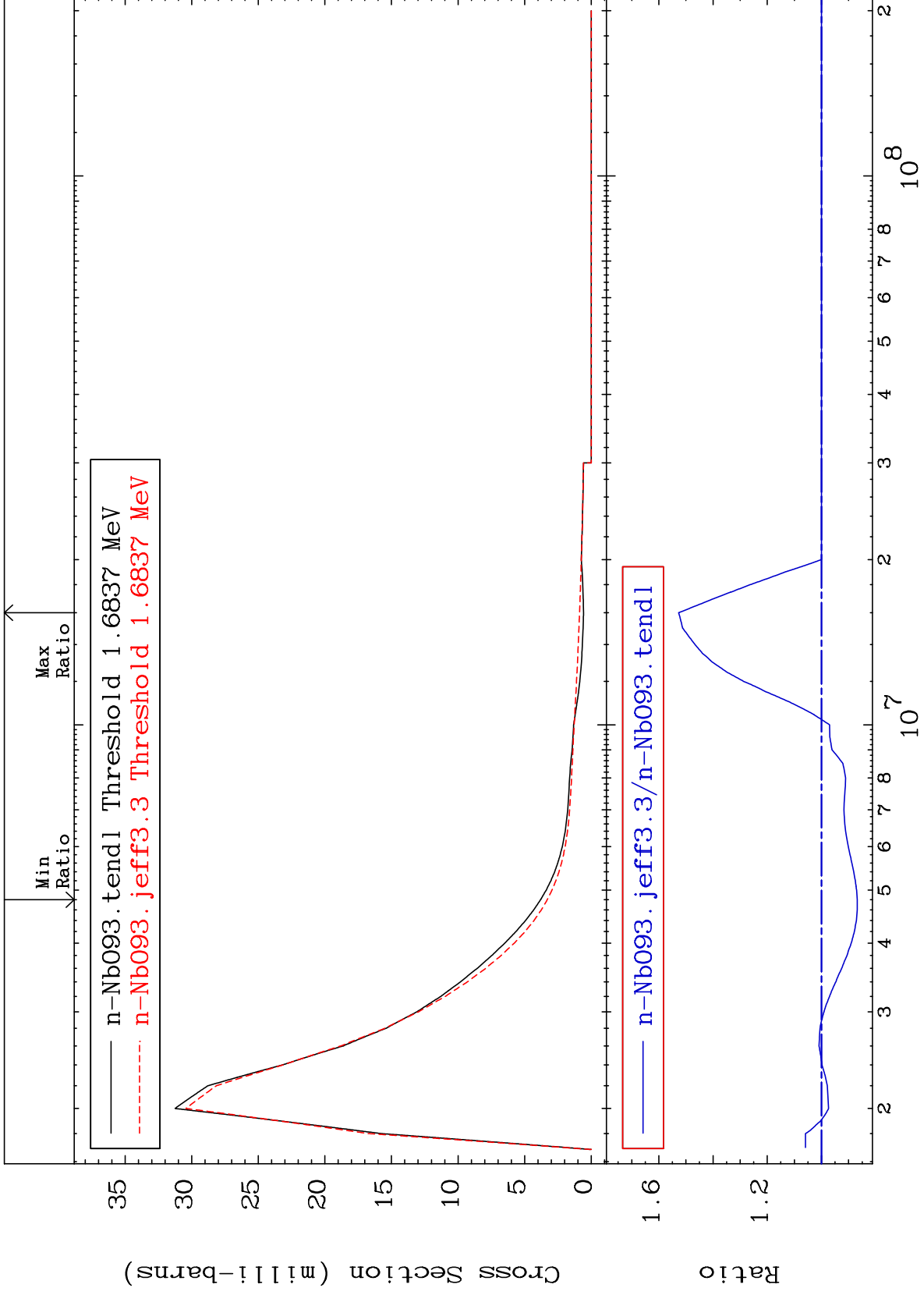
41-Nb-93
-13.39 To 52.69 %



MAT 4125

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

41-Nb-93
-13.20 To 52.69 %



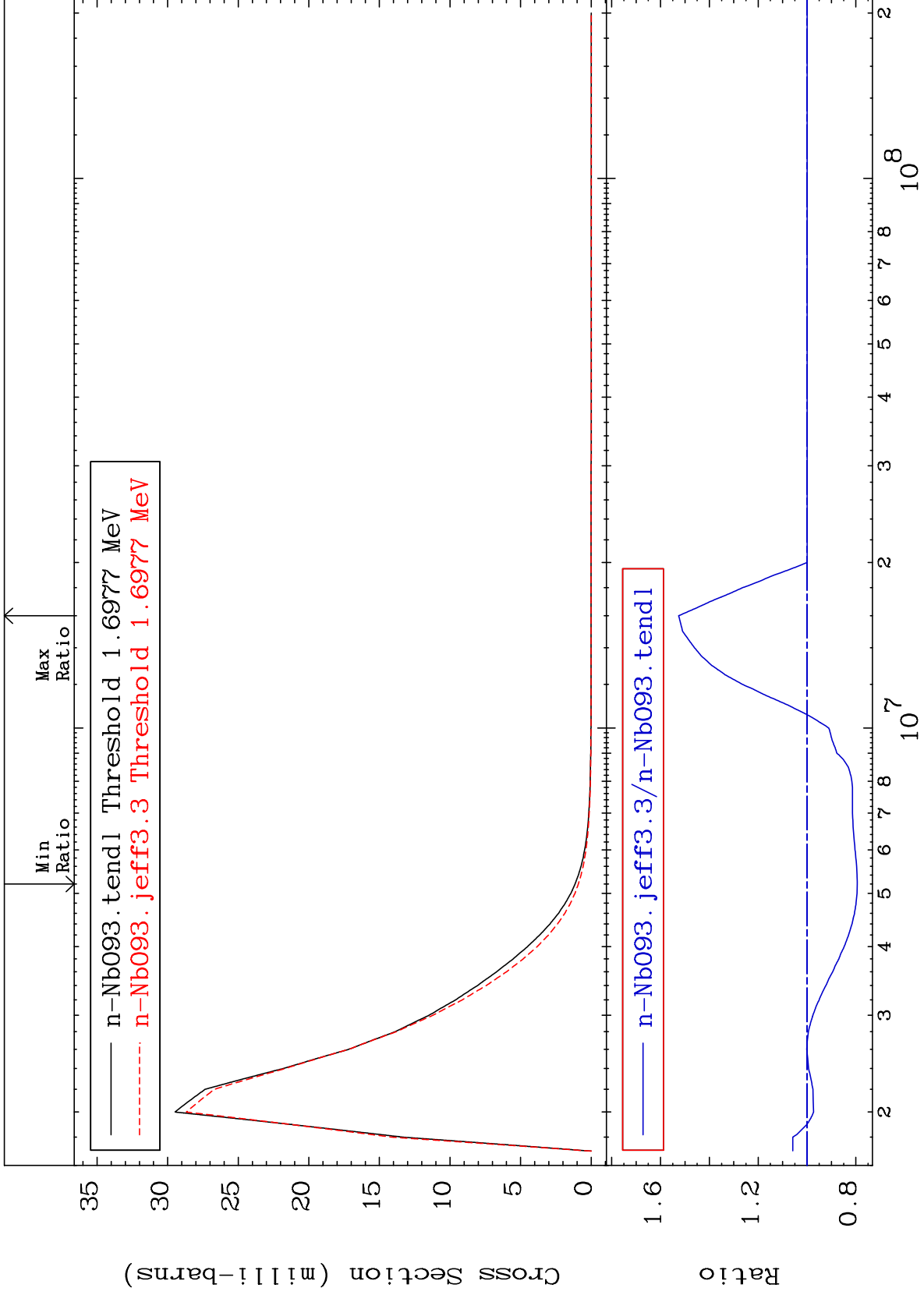
45

41-Nb-93

MAT 4125

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

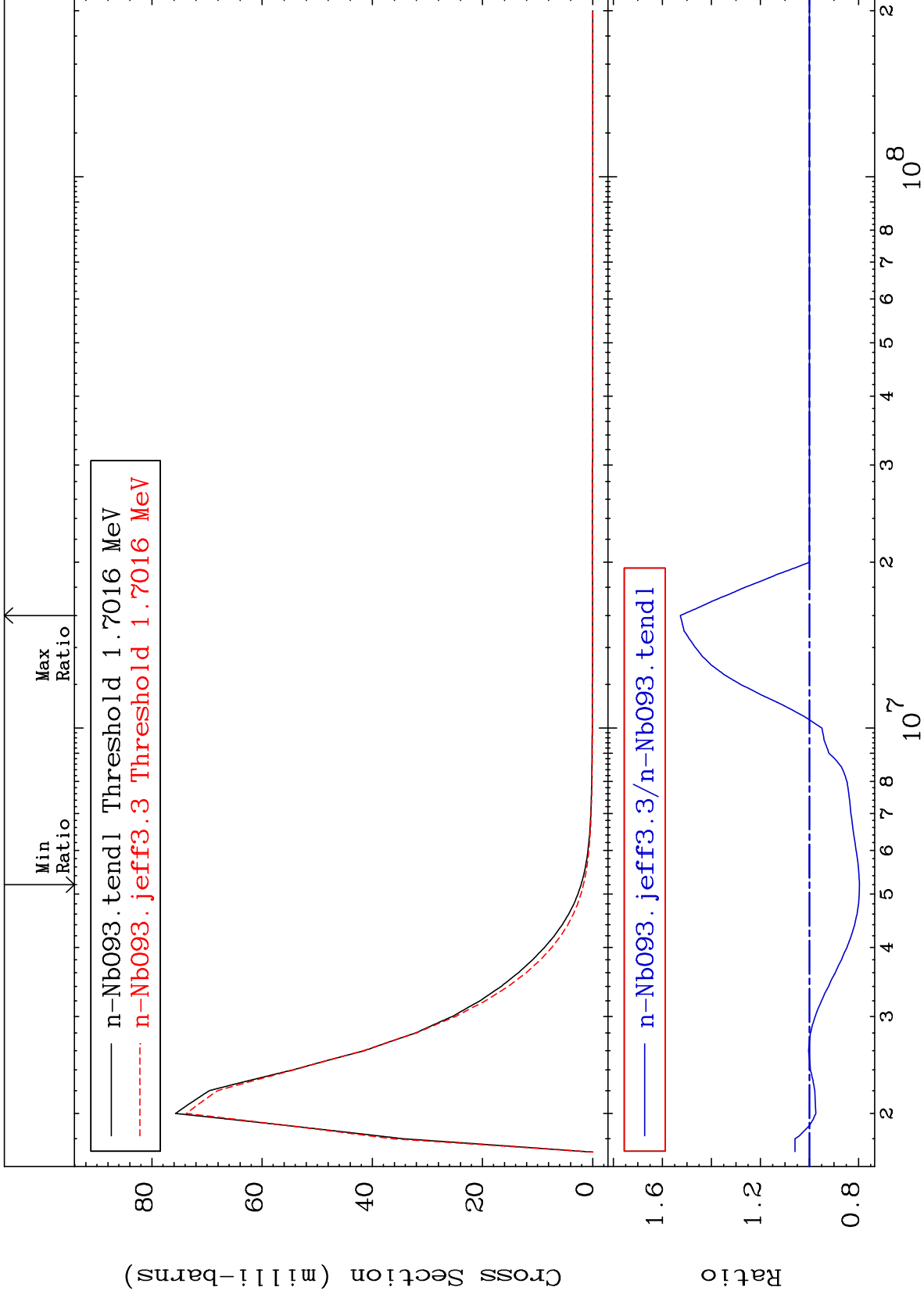
41-Nb-93
-20.57 To 52.58 %



MAT 4125

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

41-Nb-93
-20.38 To 52.66 %



47

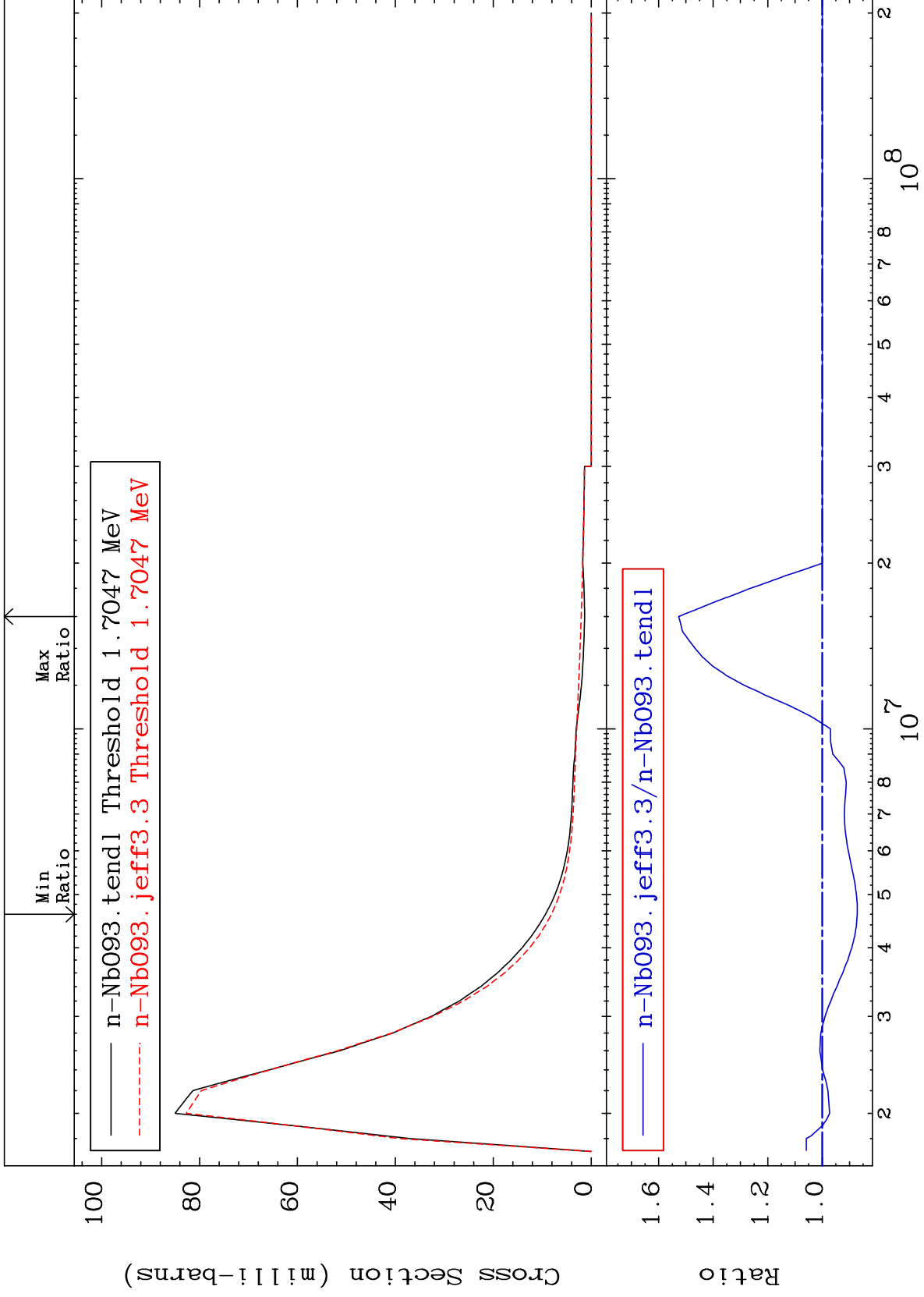
Incident Energy (eV)

41-Nb-93

MAT 4125

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

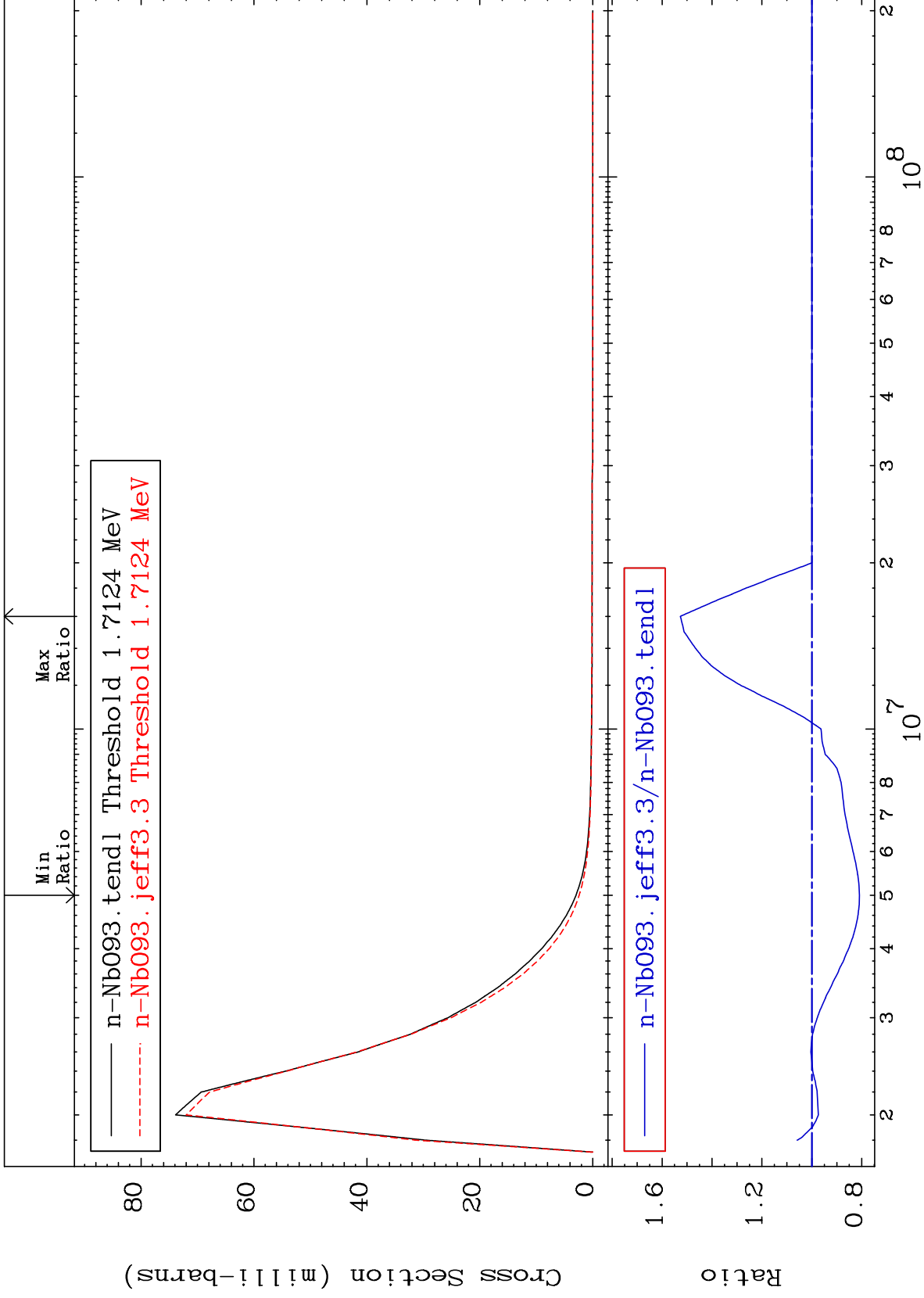
41-Nb-93
-12.85 To 52.69 %

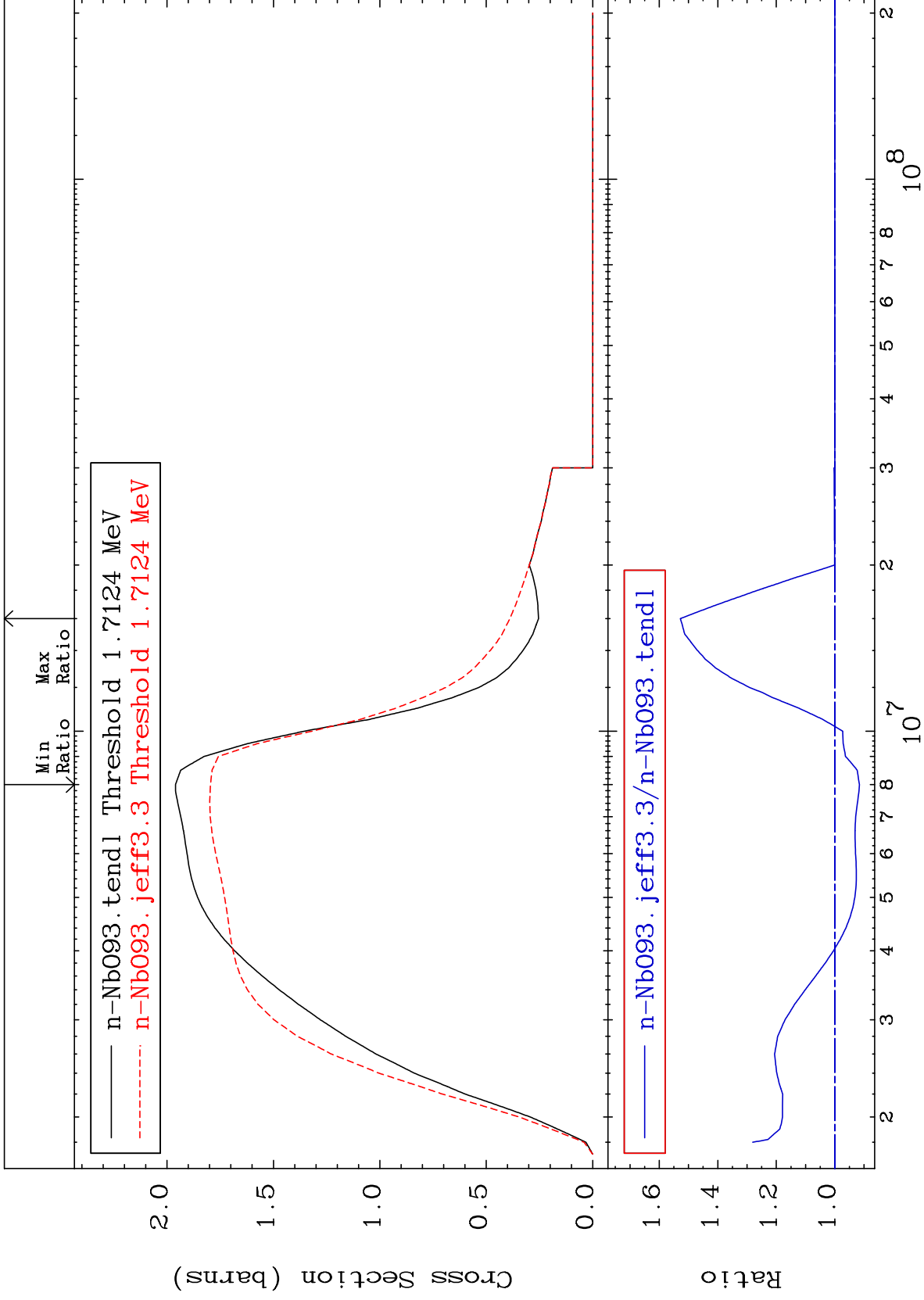


MAT 4125

MT= 80 (n,n') Level
Cross Section

41-Nb-93
-19.06 To 52.68 %





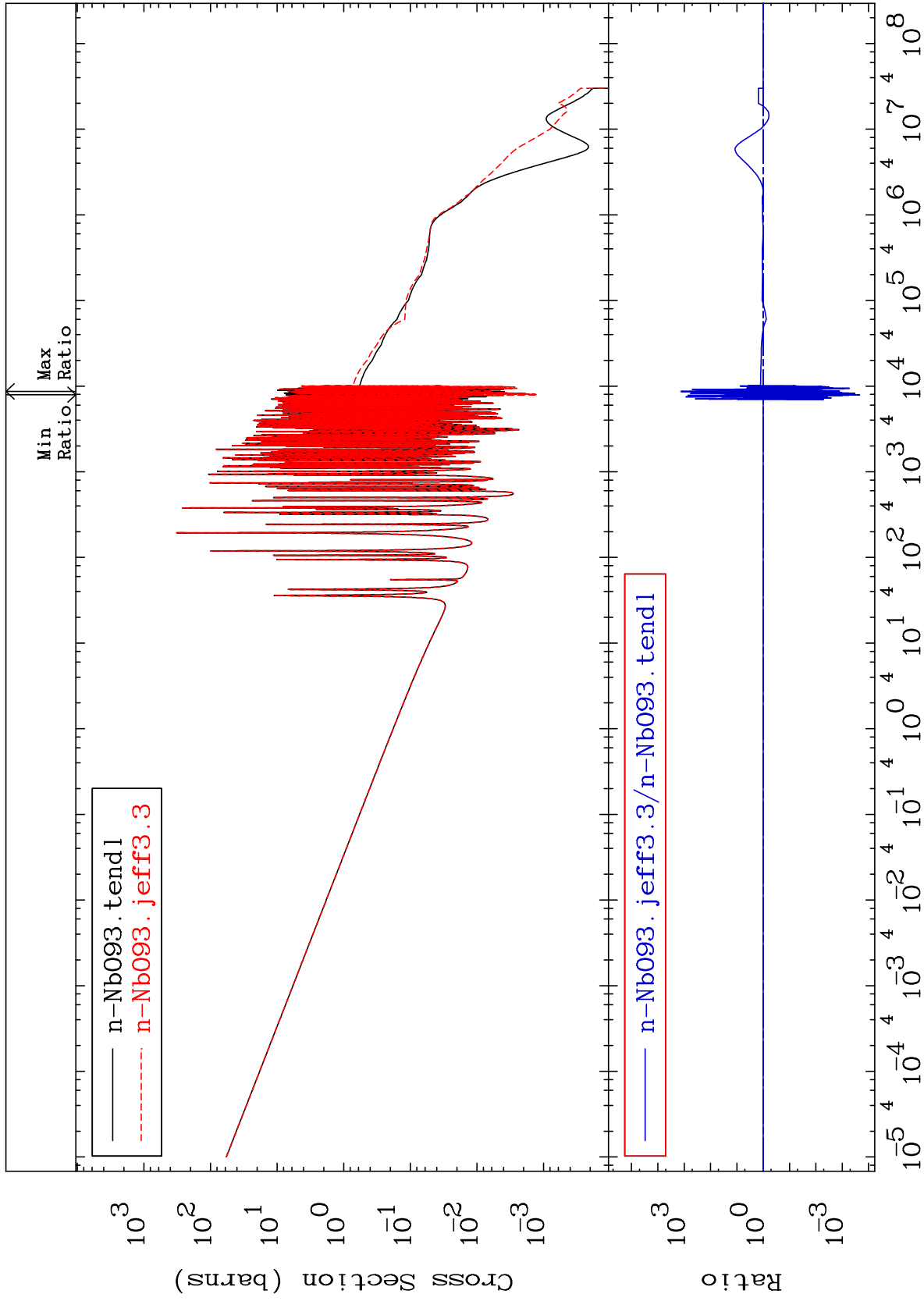
MAT 4125

(n, γ)

41-Nb-93

Cross Section

-99.98 To 9999. %



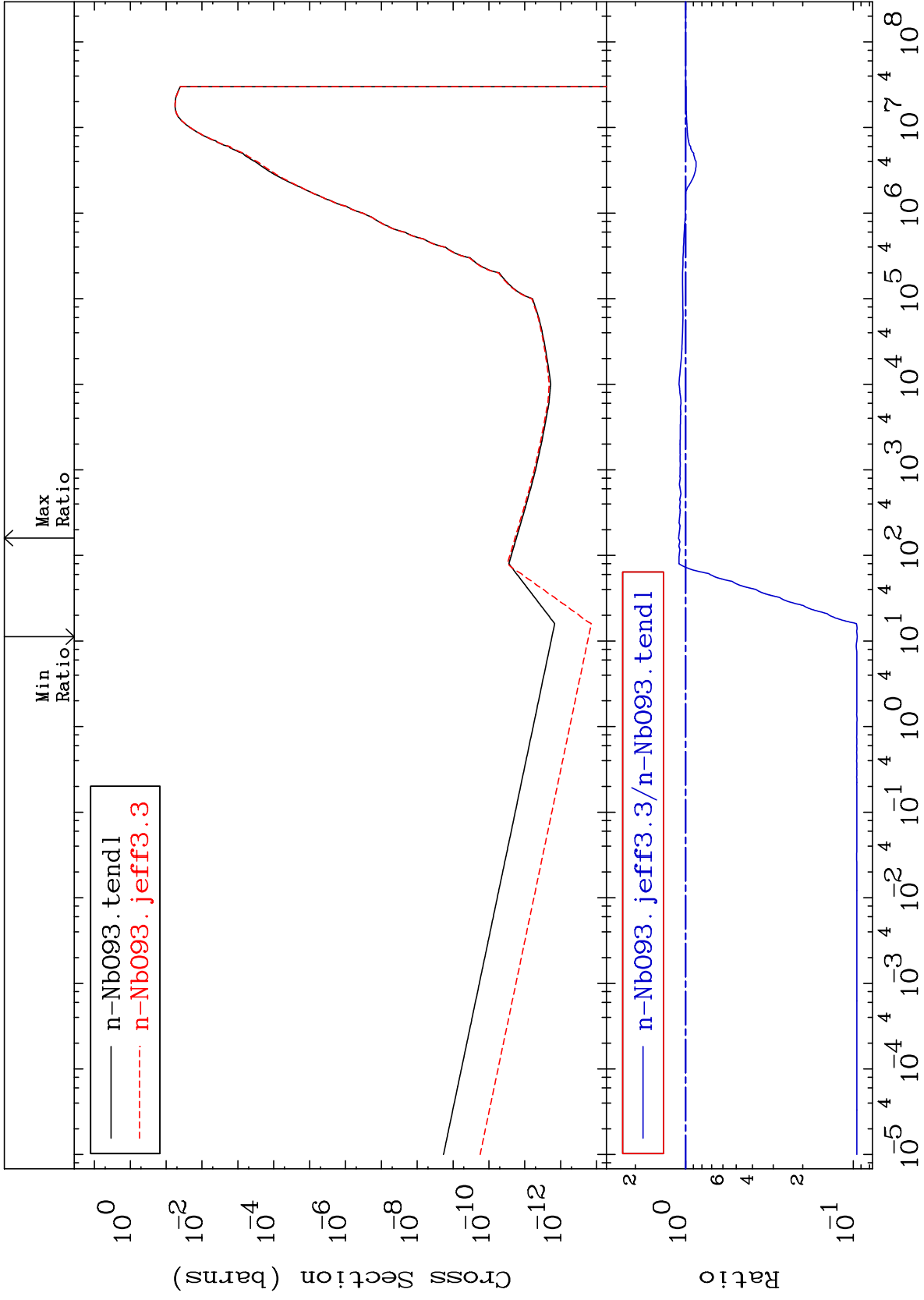
51

Incident Energy (eV)

41-Nb-93

MAT 4125

(n,p) Cross Section
41-Nb-93
-90.53 To 10.24 %



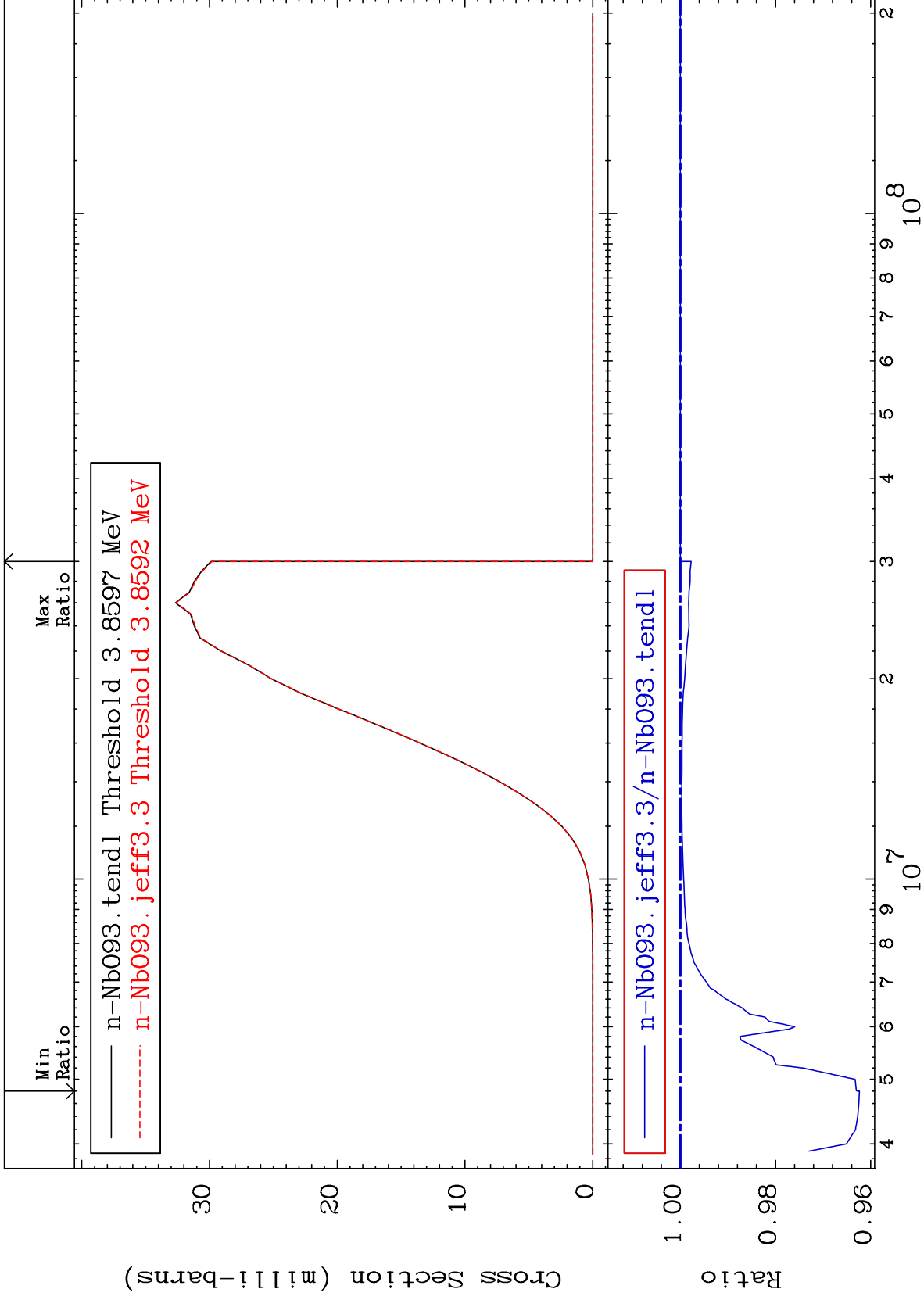
MAT 4125

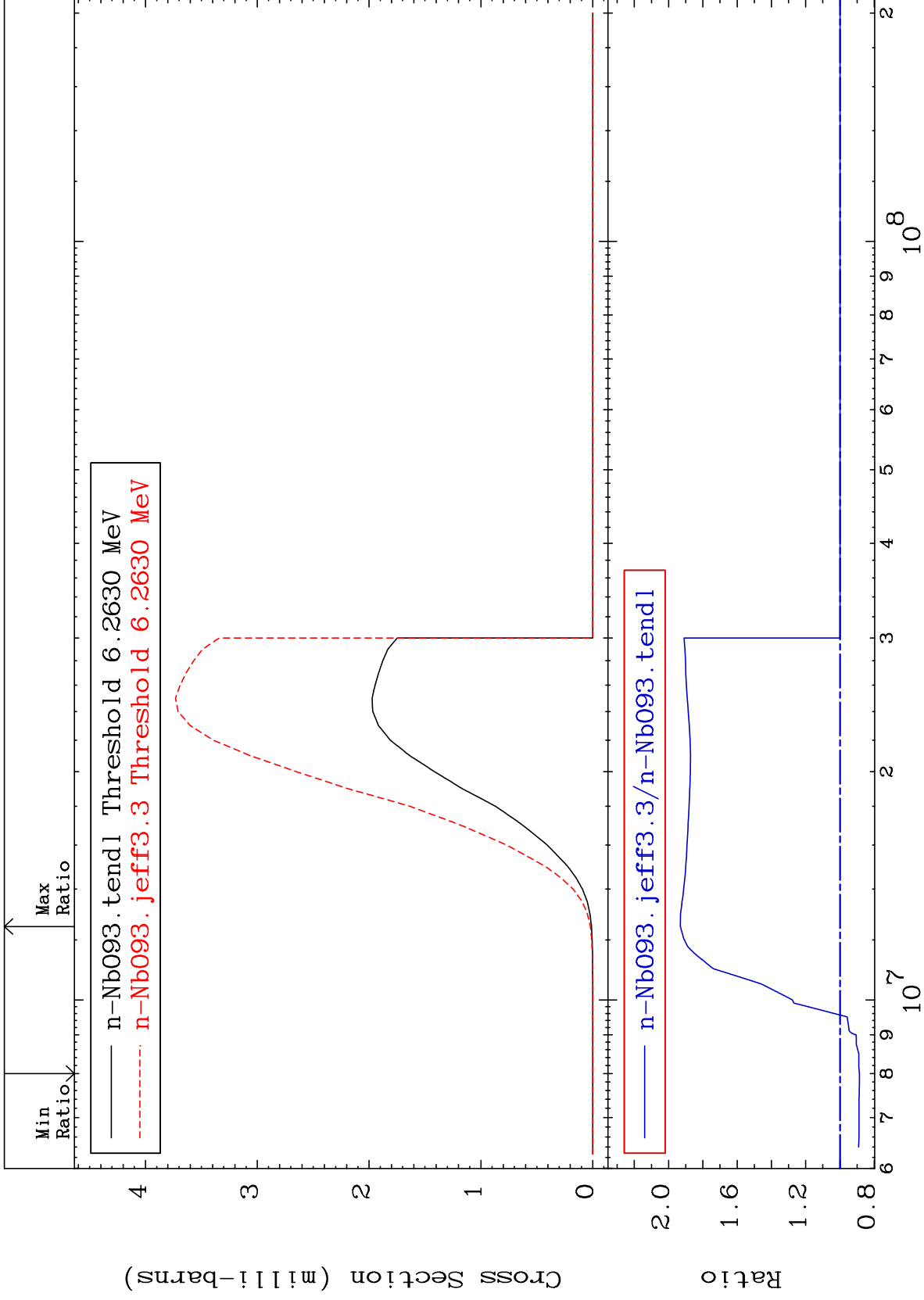
(n, d)

41-Nb-93

Cross Section

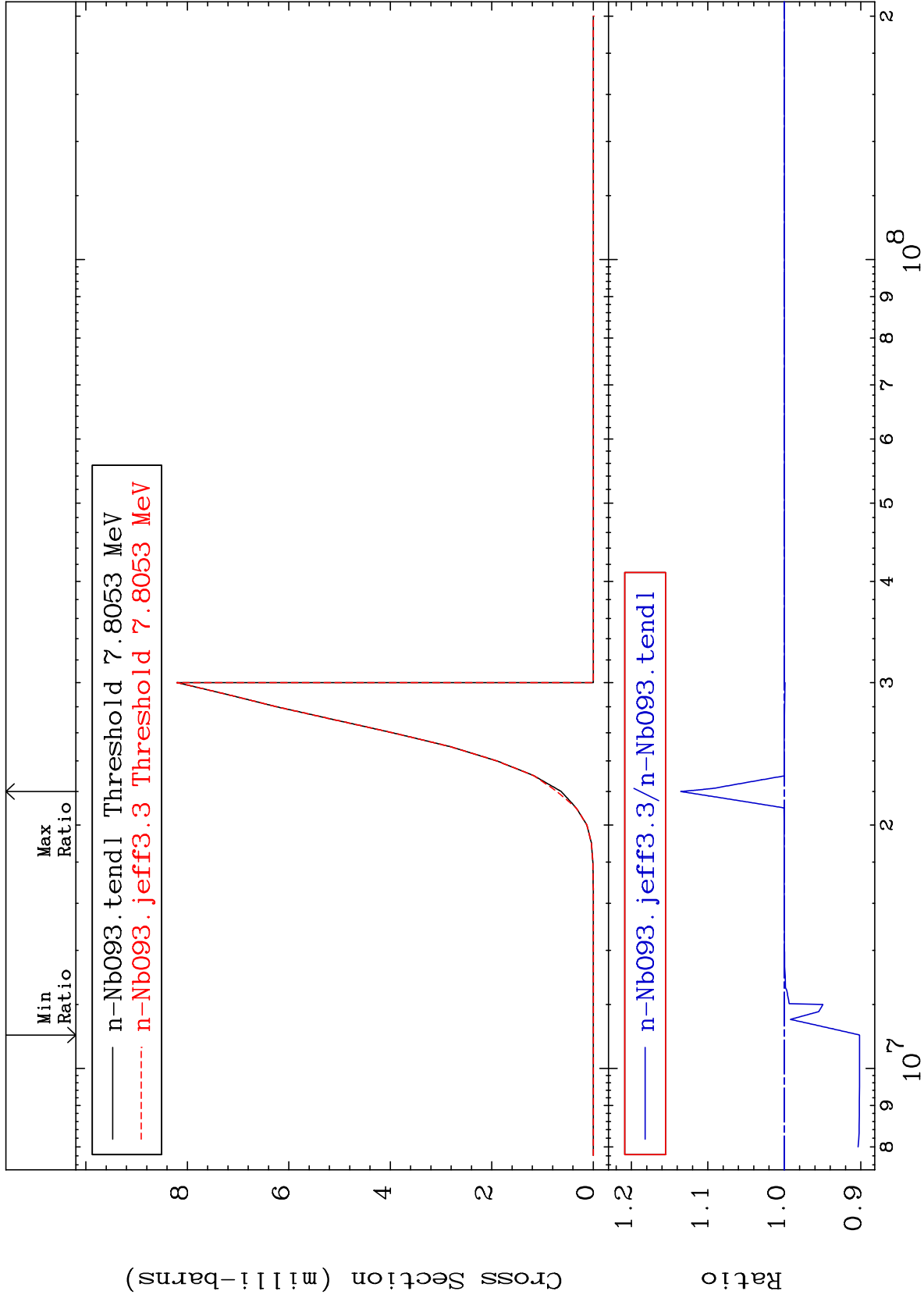
-3.764 To 0.000 %

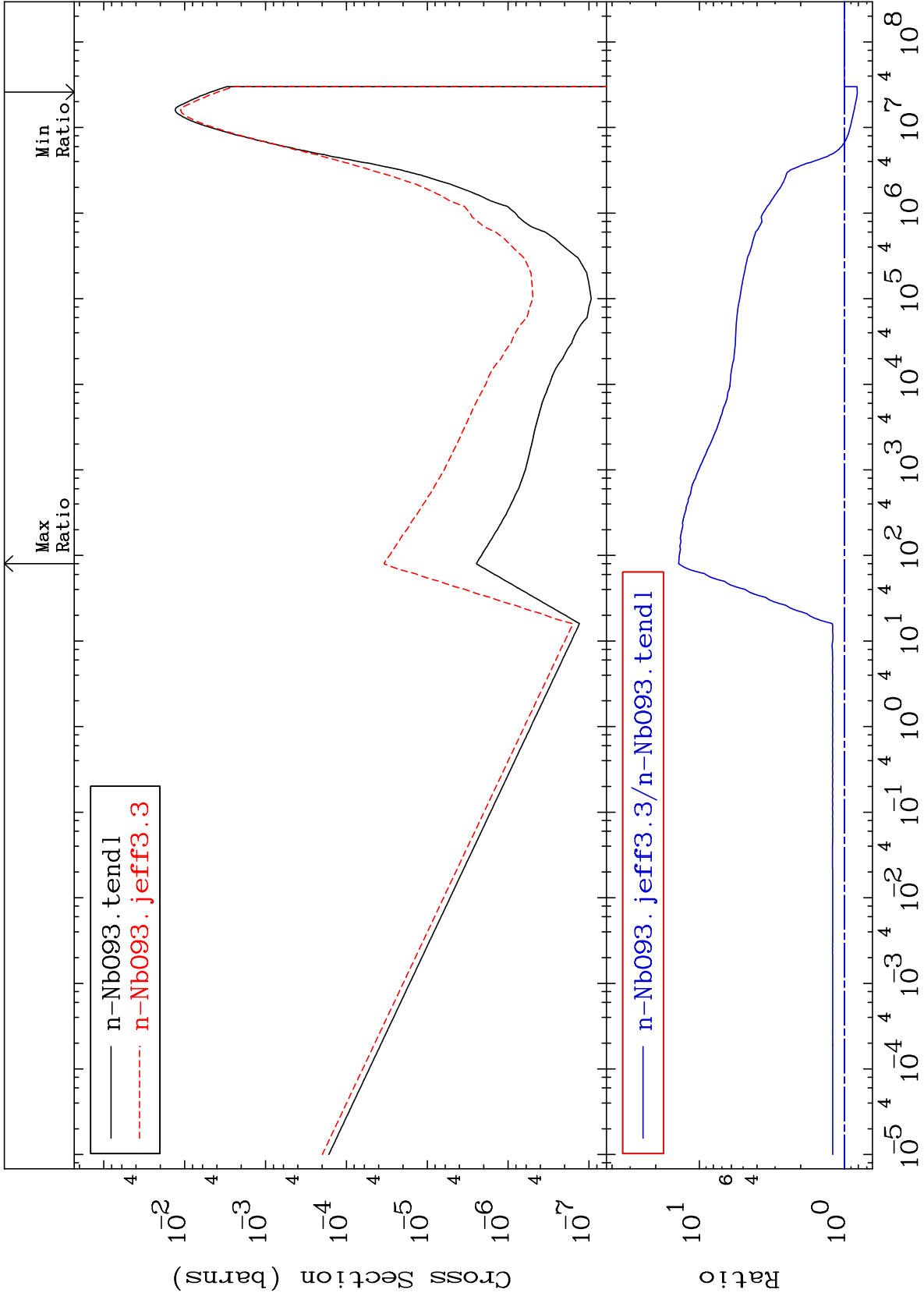


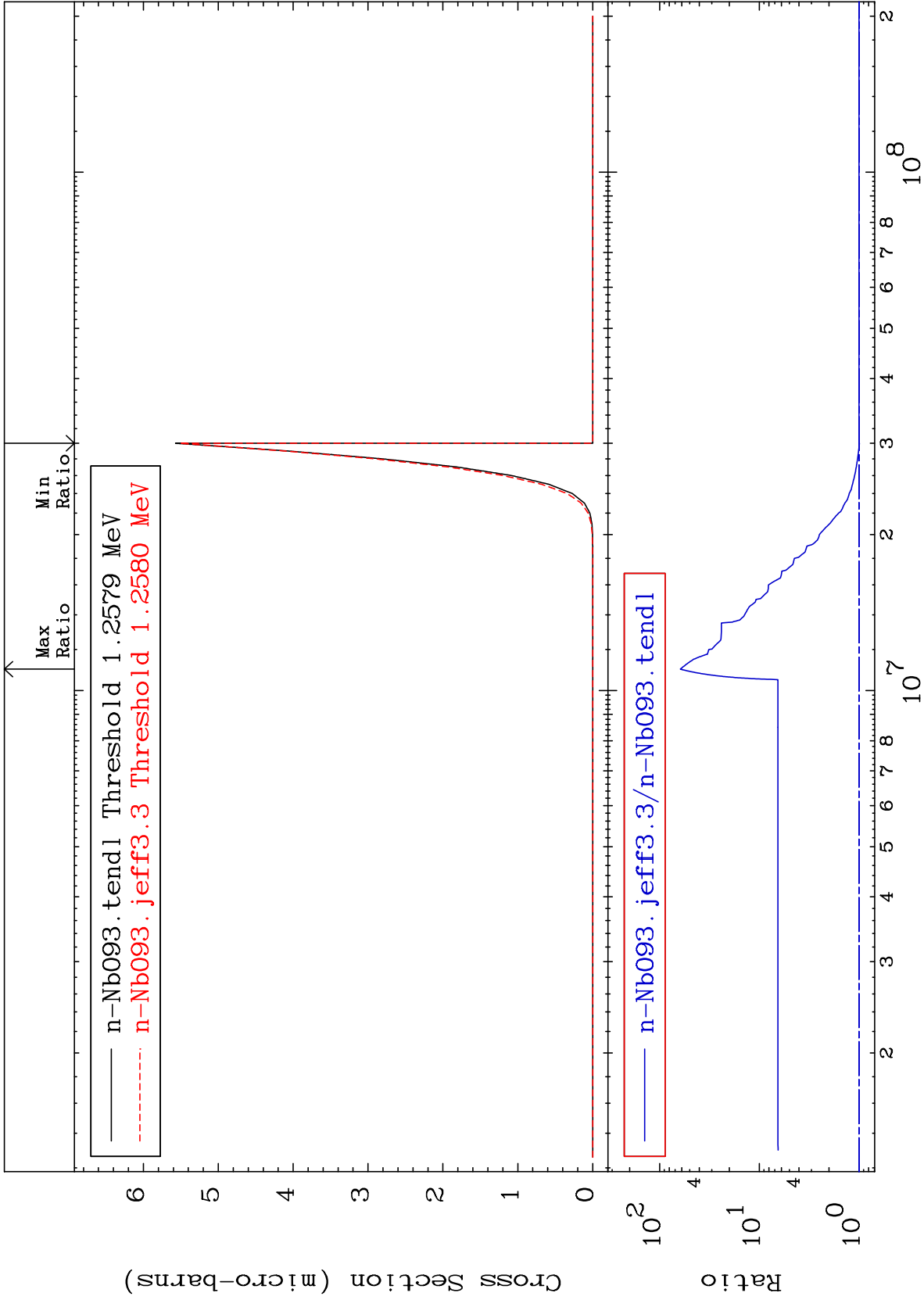


Cross Section

-9.837 To 13.54 %



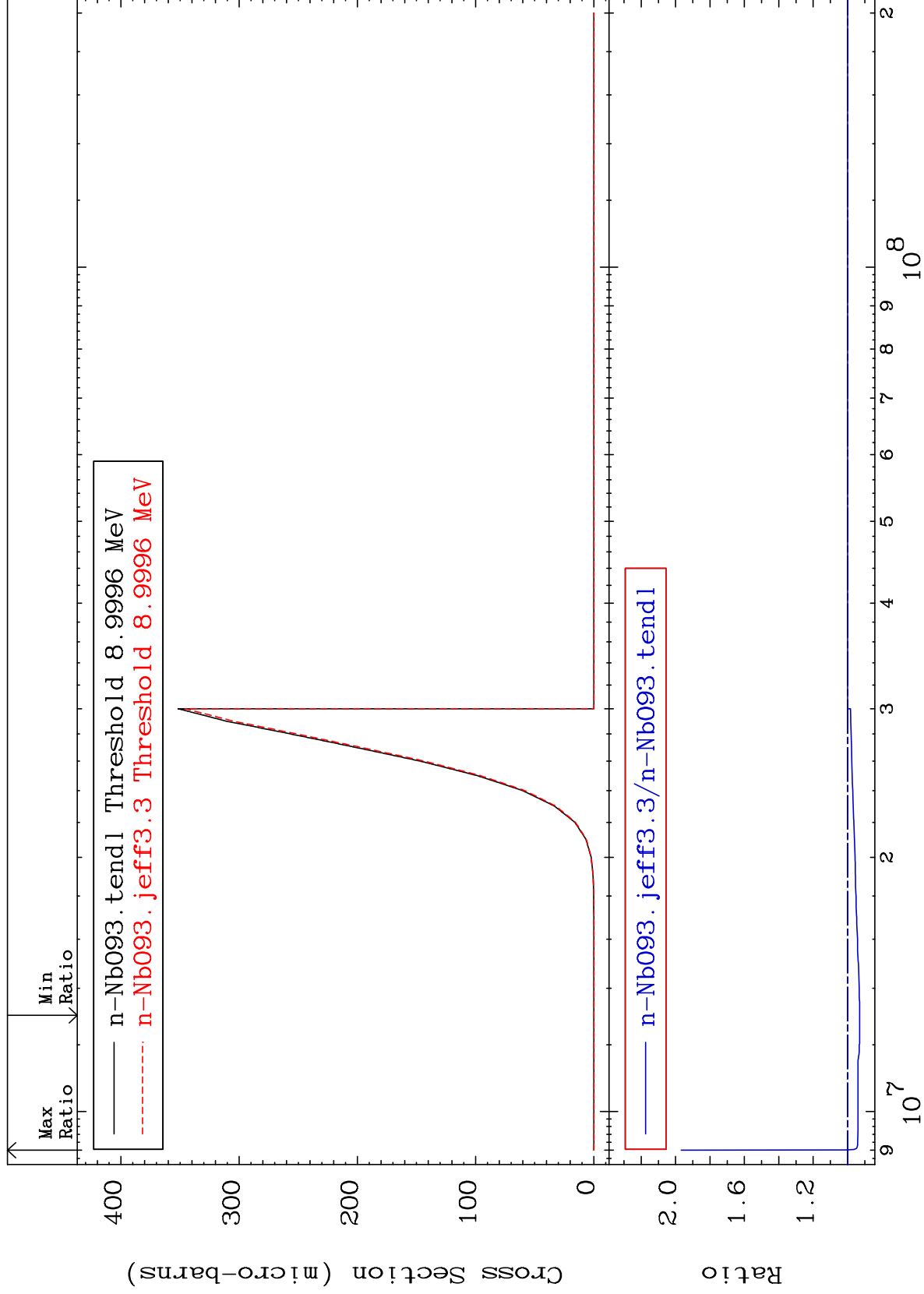




MAT 4125

(n,2p)
Cross Section

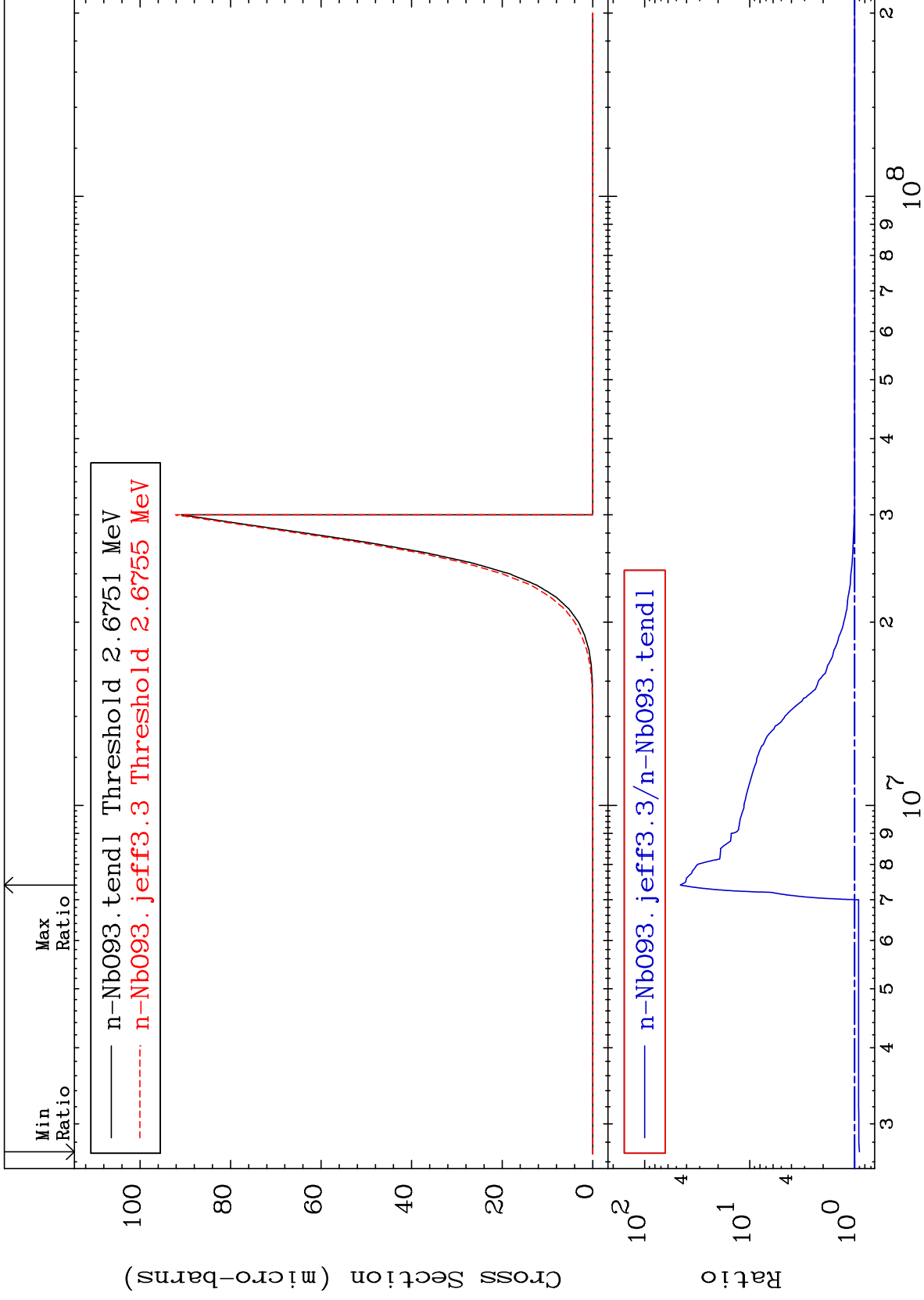
41-Nb-93
-7.018 To 96.75 %



58

Incident Energy (eV)

41-Nb-93



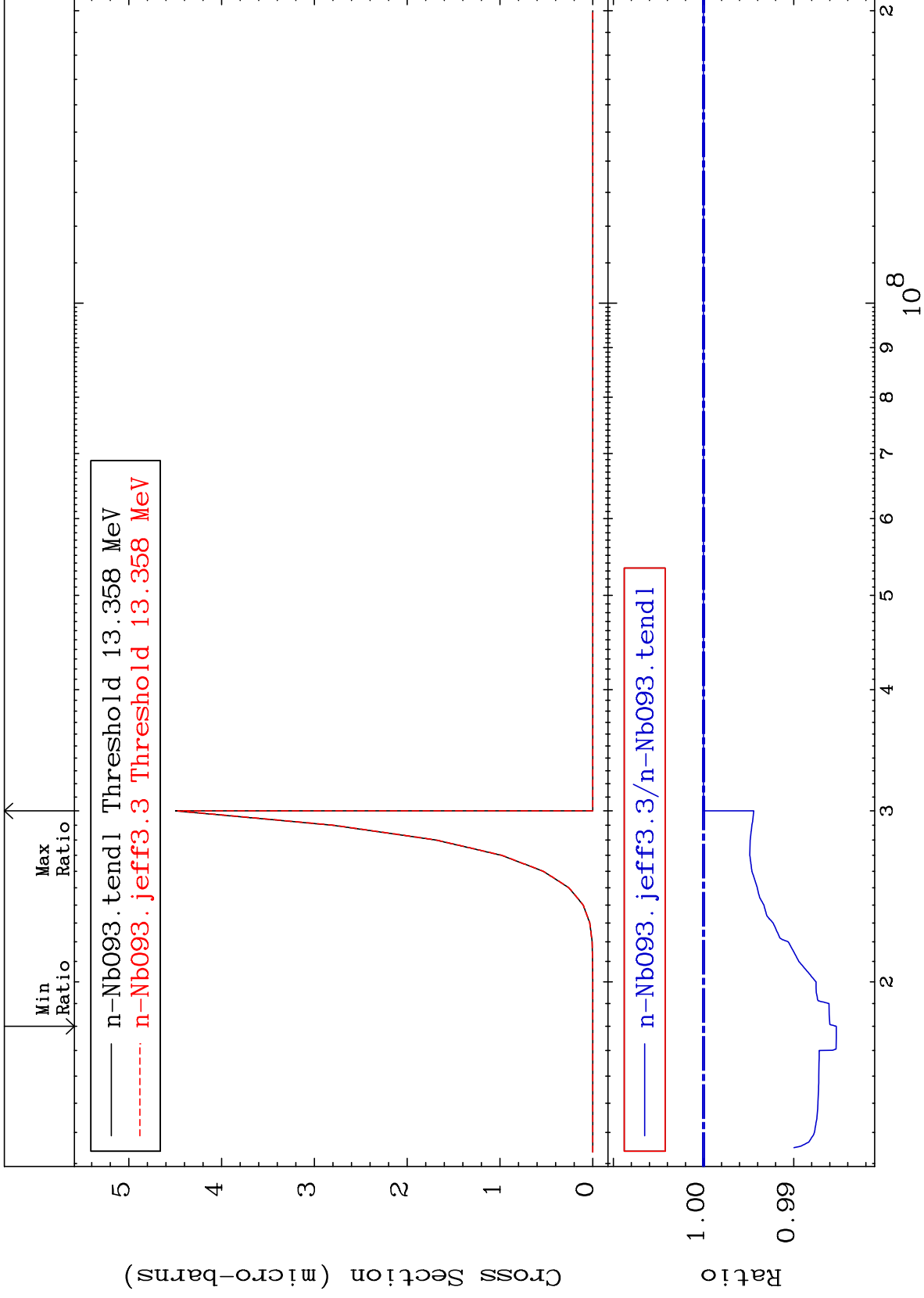
MAT 4125

(n, p) d

41-Nb-93

Cross Section

-1.472 To 0.000 %



60

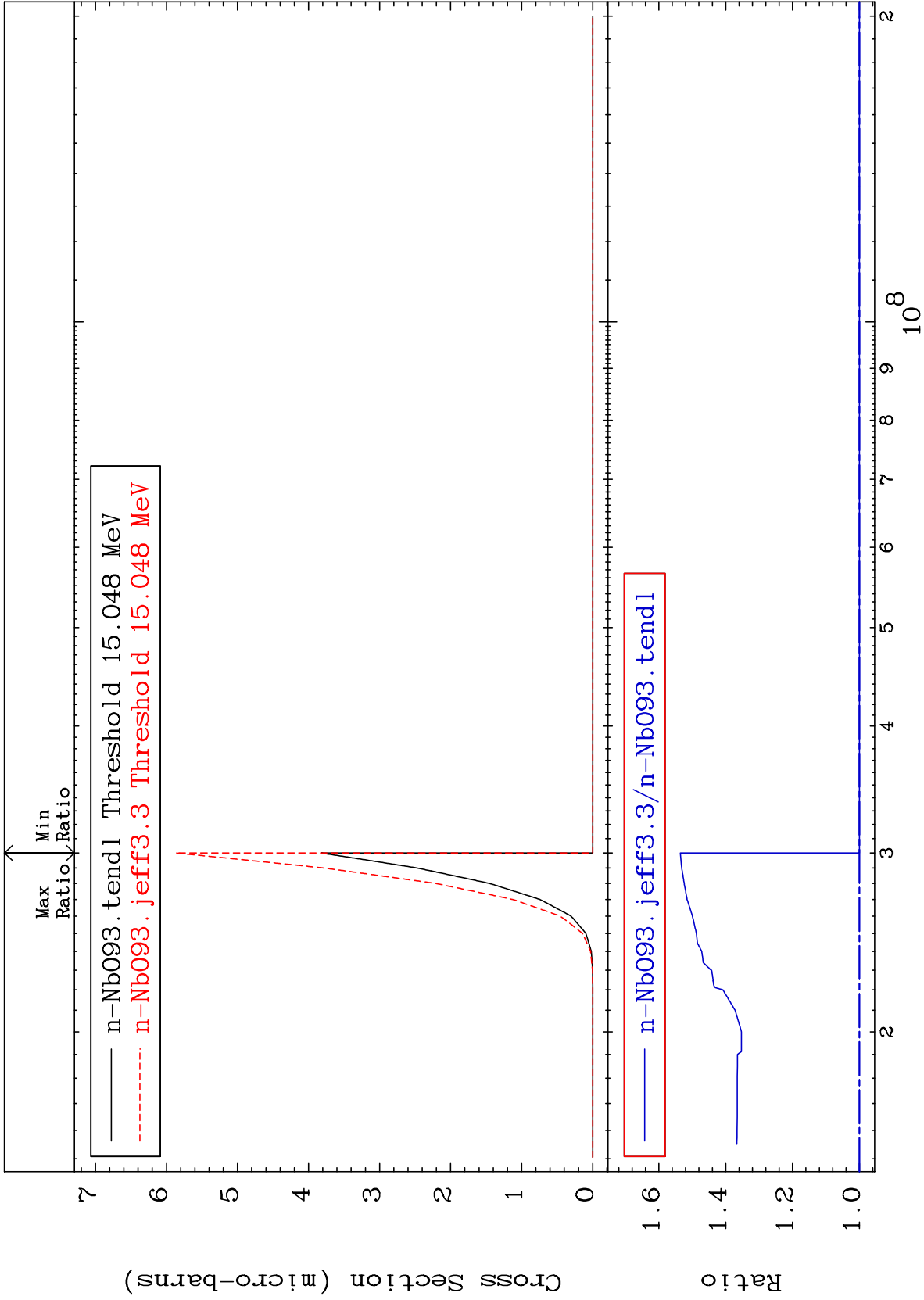
Incident Energy (eV)

41-Nb-93

MAT 4125

(n,p) t
Cross Section

41-Nb-93
0.000 To 53.56 %



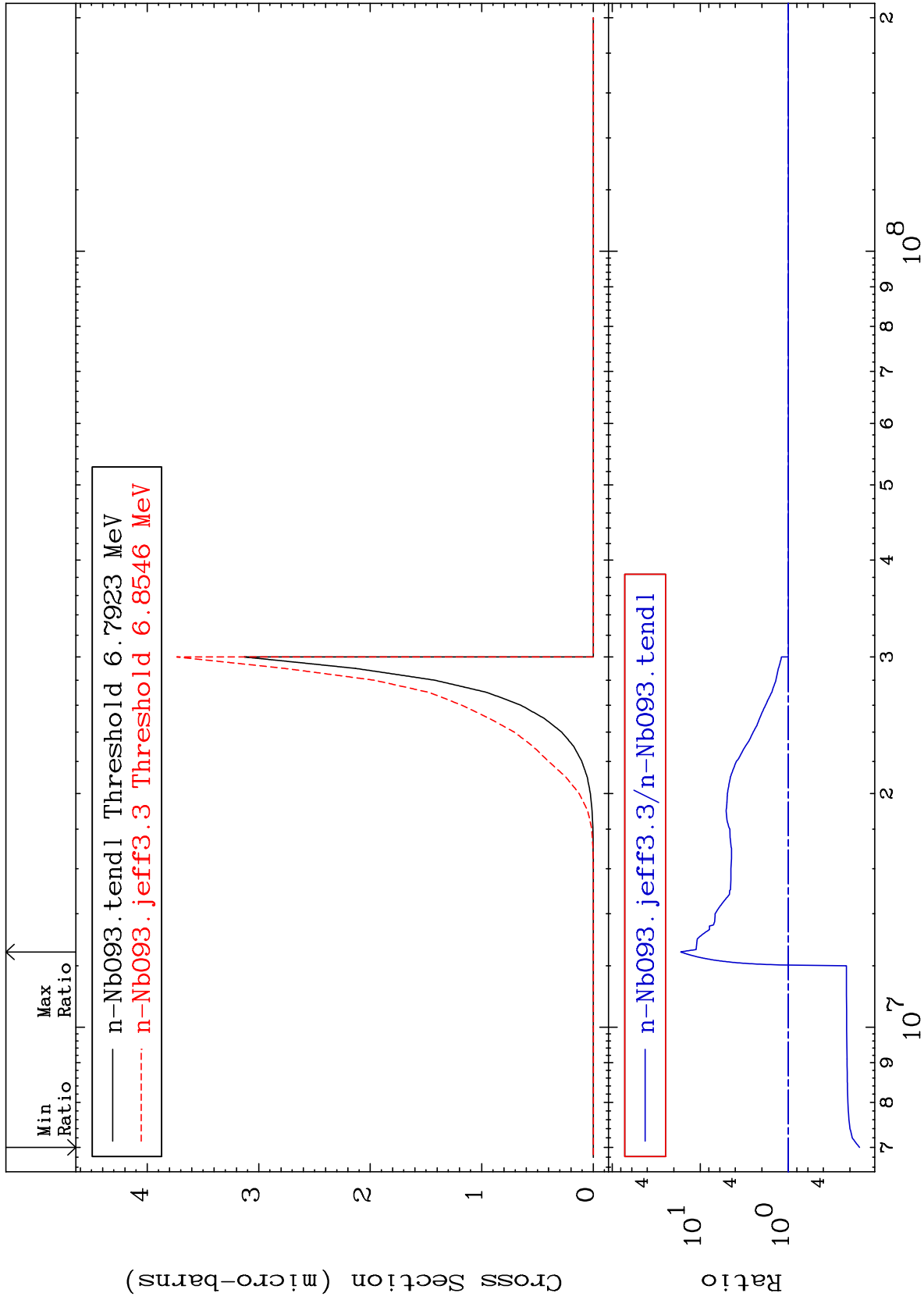
MAT 4125

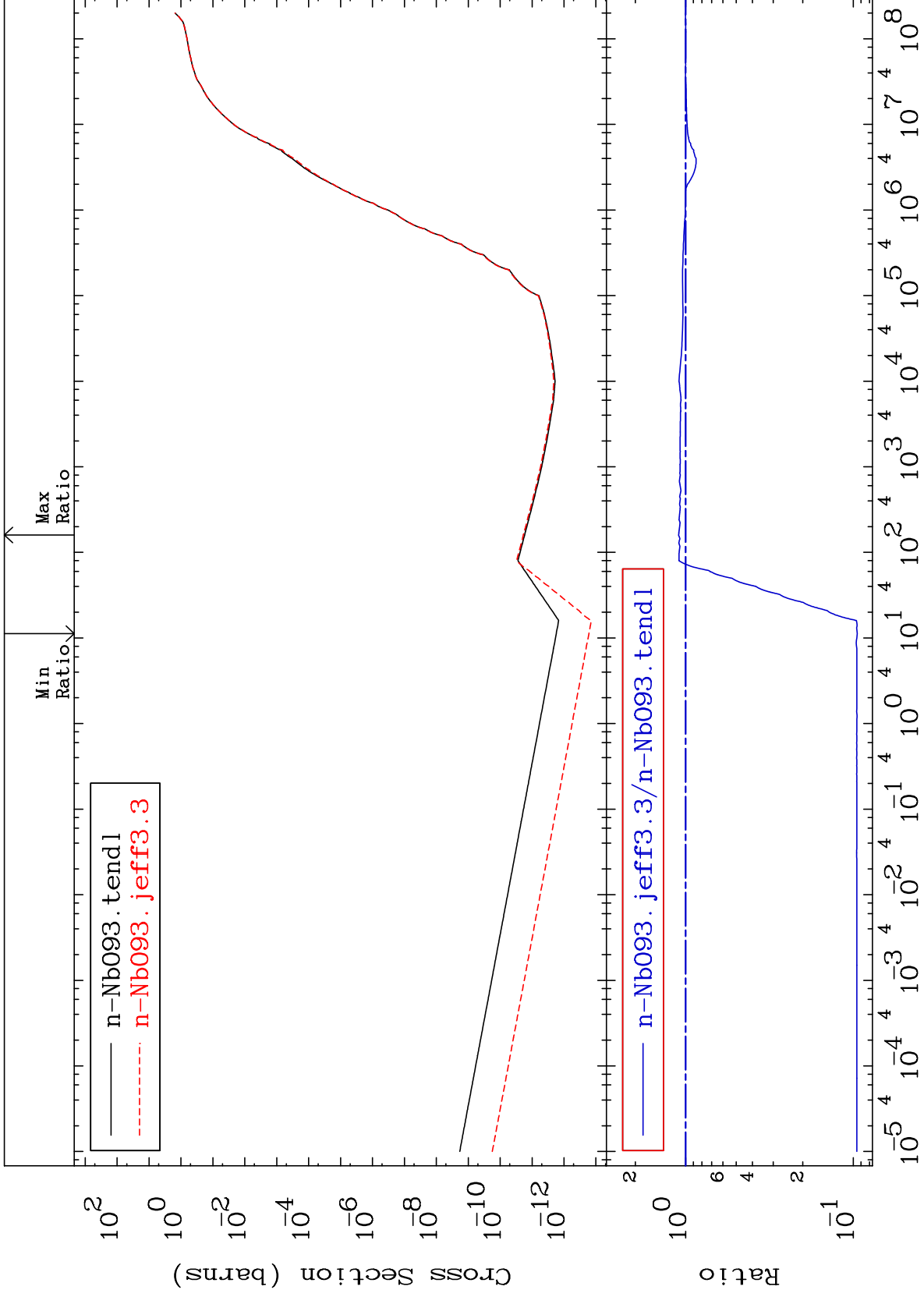
(n, d) α

41-Nb-93

Cross Section

-84.46 To 1565. %

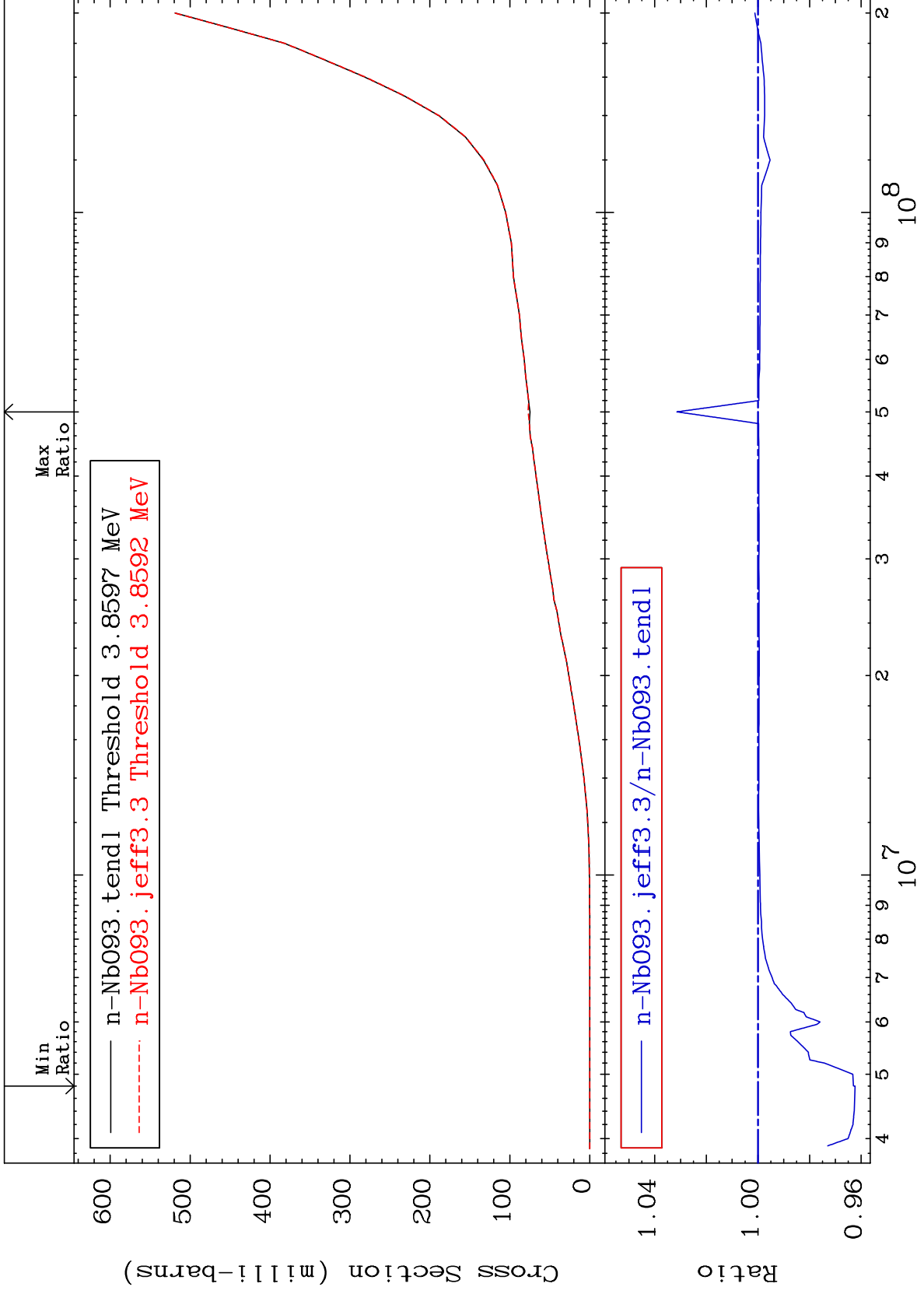




MAT 4125

Deuterium Production
Cross Section

41-Nb-93
-3.764 To 3.139 %



64

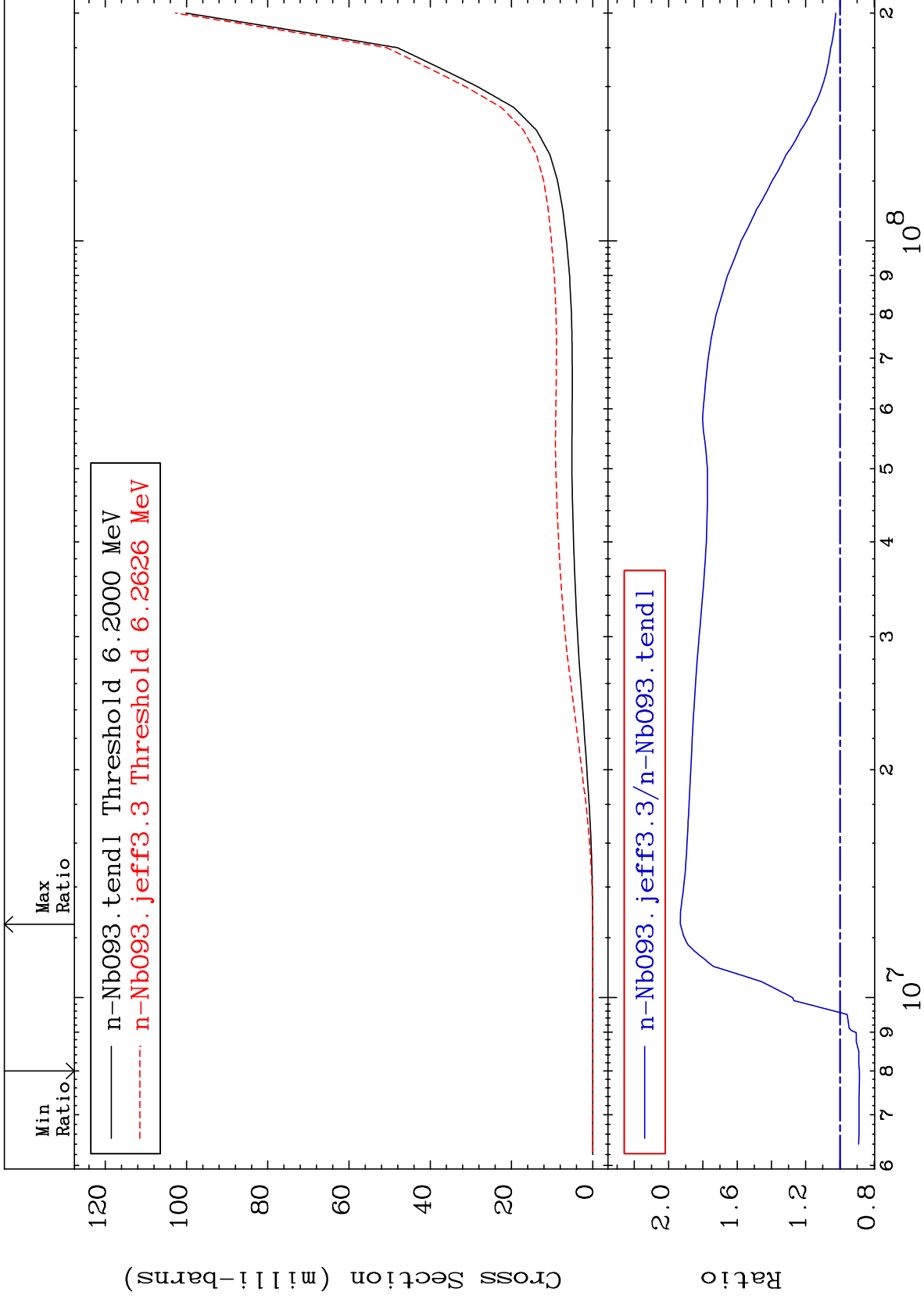
Incident Energy (eV)

41-Nb-93

MAT 4125

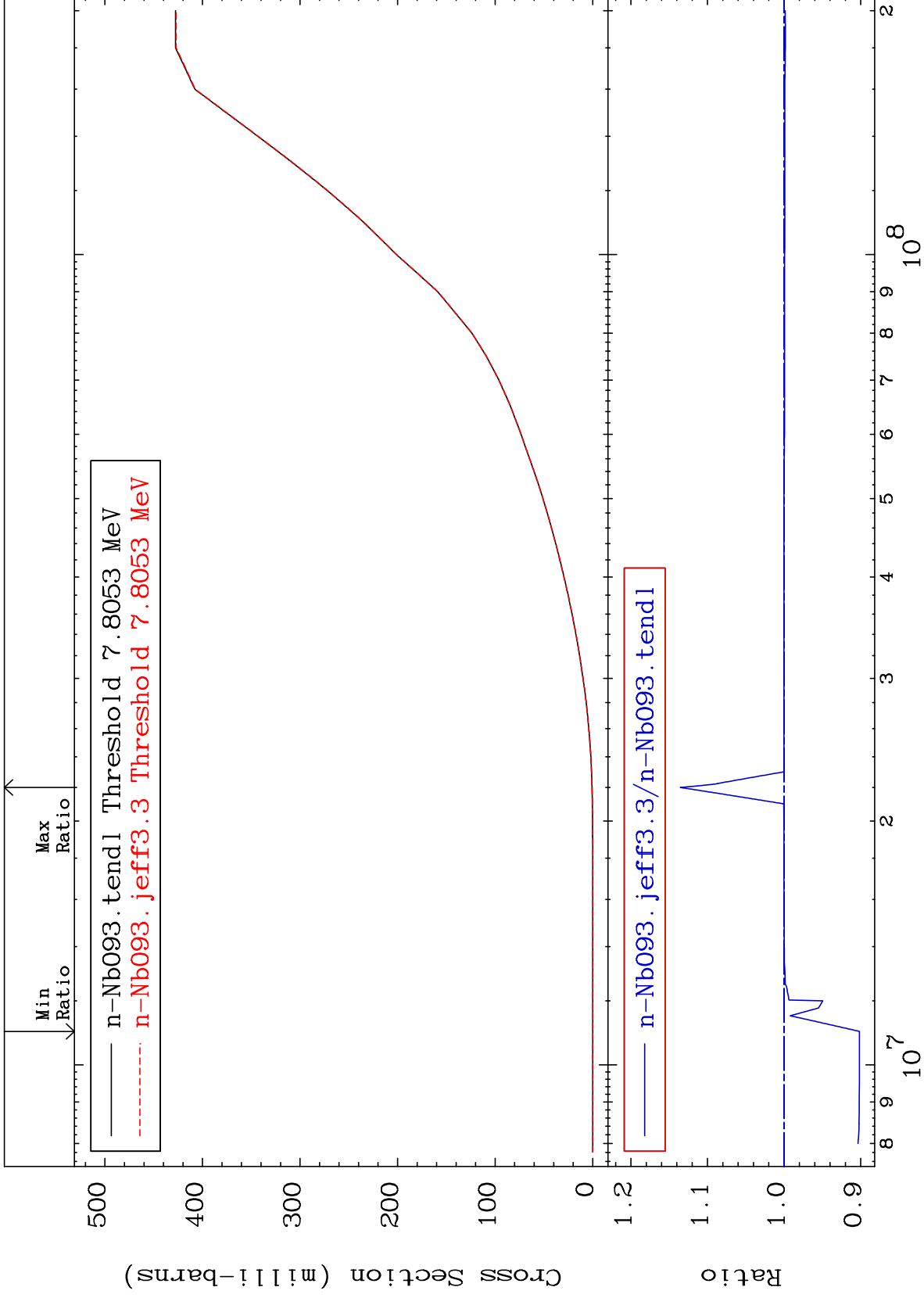
Tritium Production
Cross Section

41-Nb-93
-11.36 To 93.14 %



65

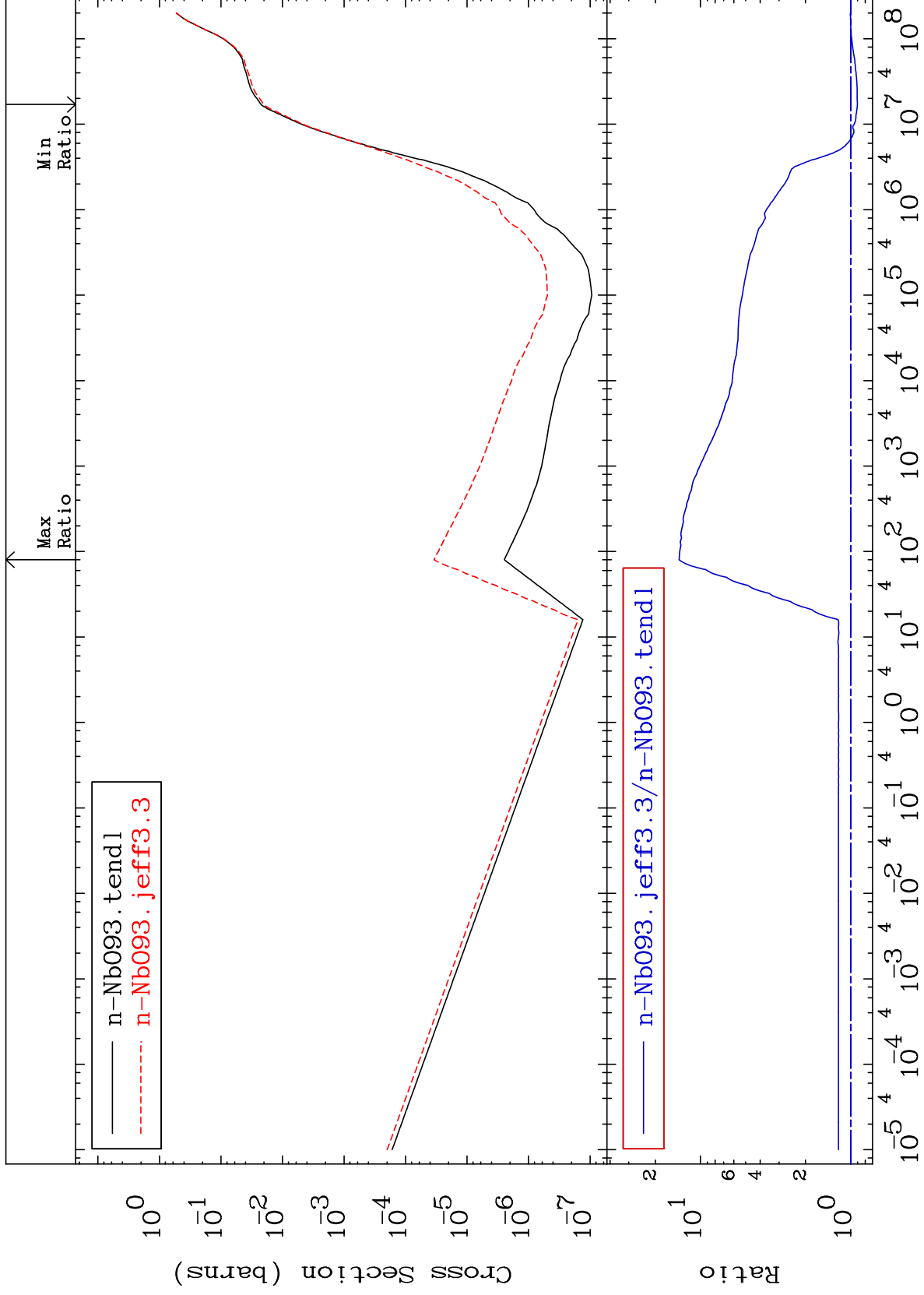
41-Nb-93



MAT 4125

He-4 Production
Cross Section

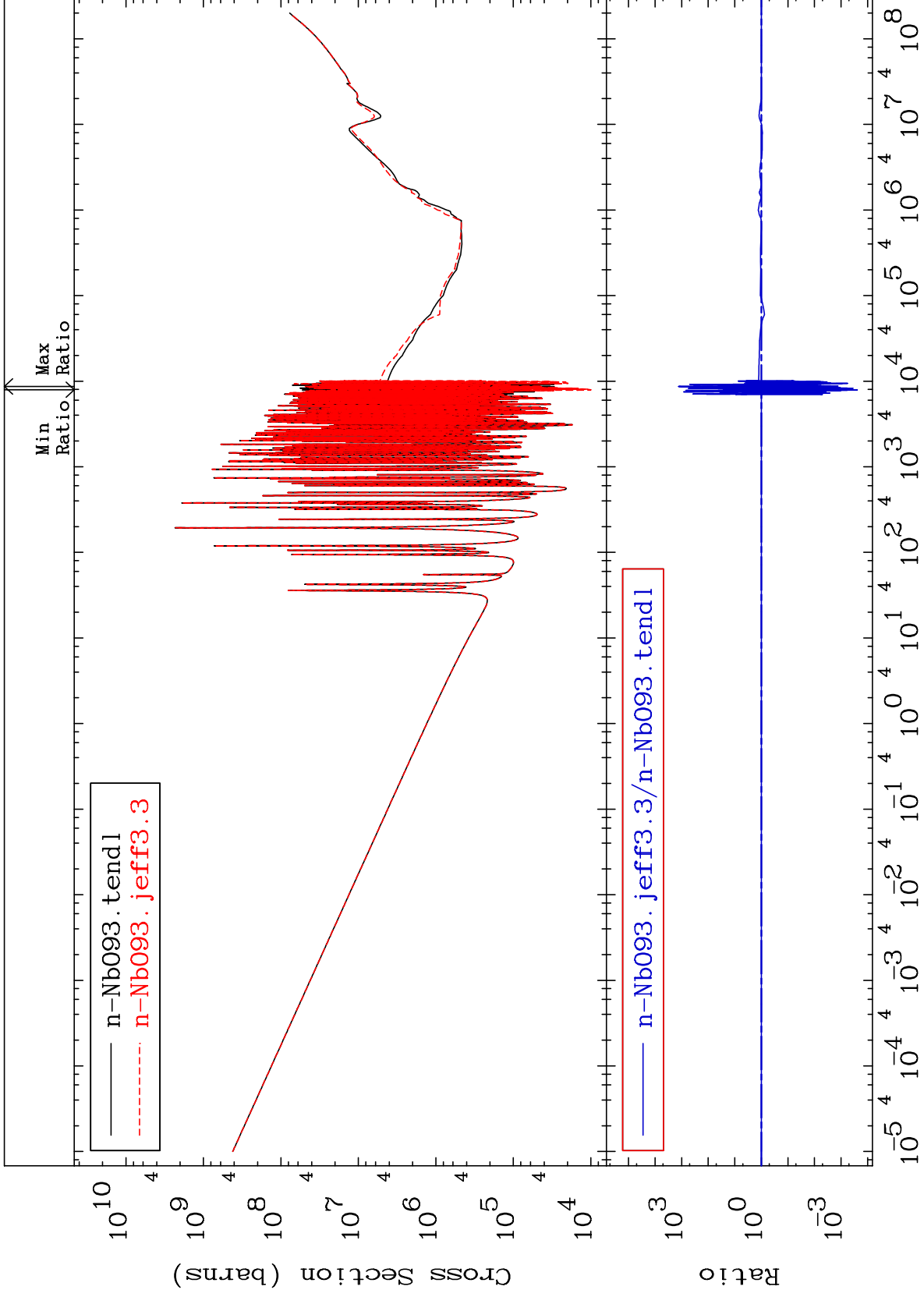
41-Nb-93
-9.820 To 1289. %

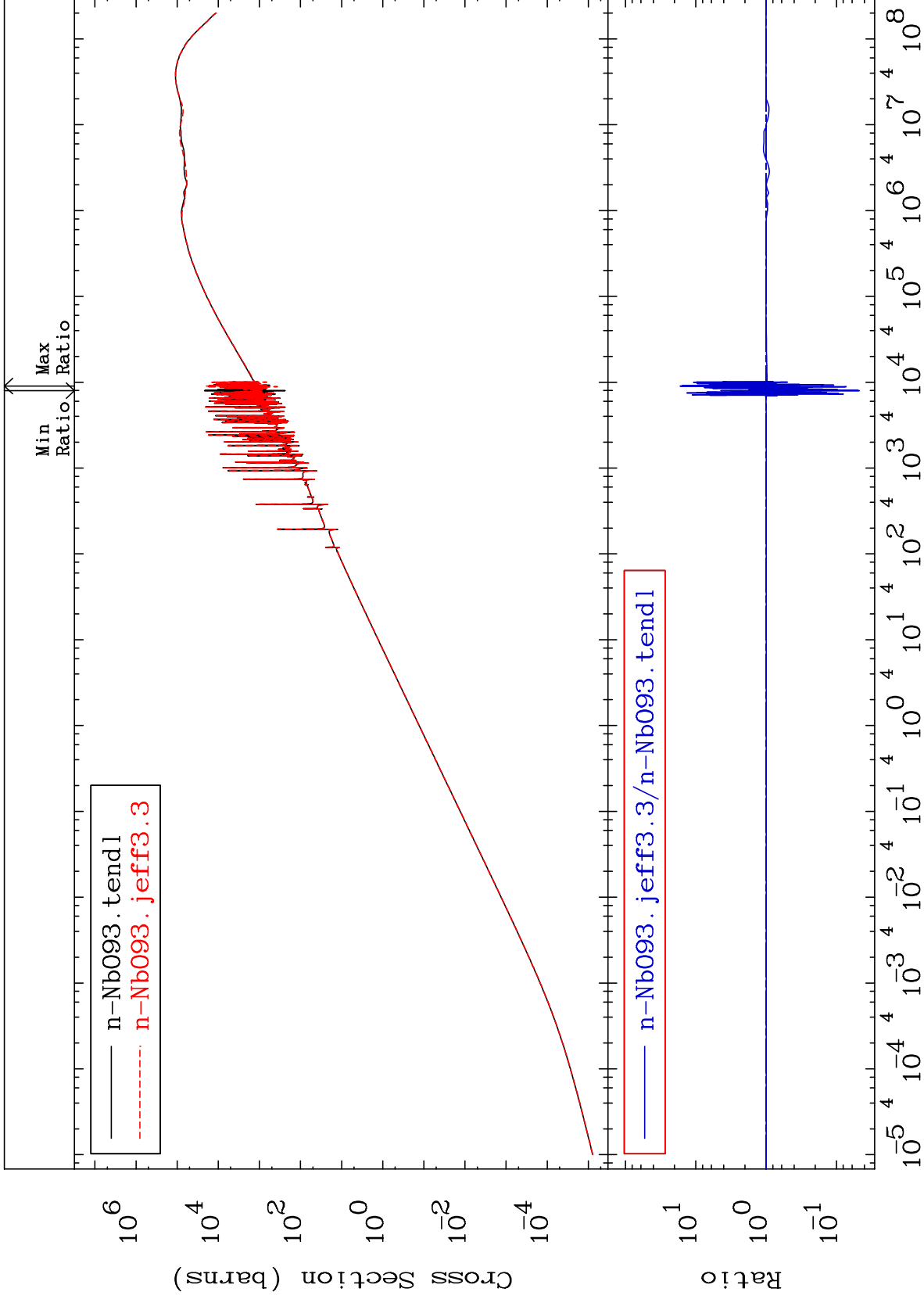


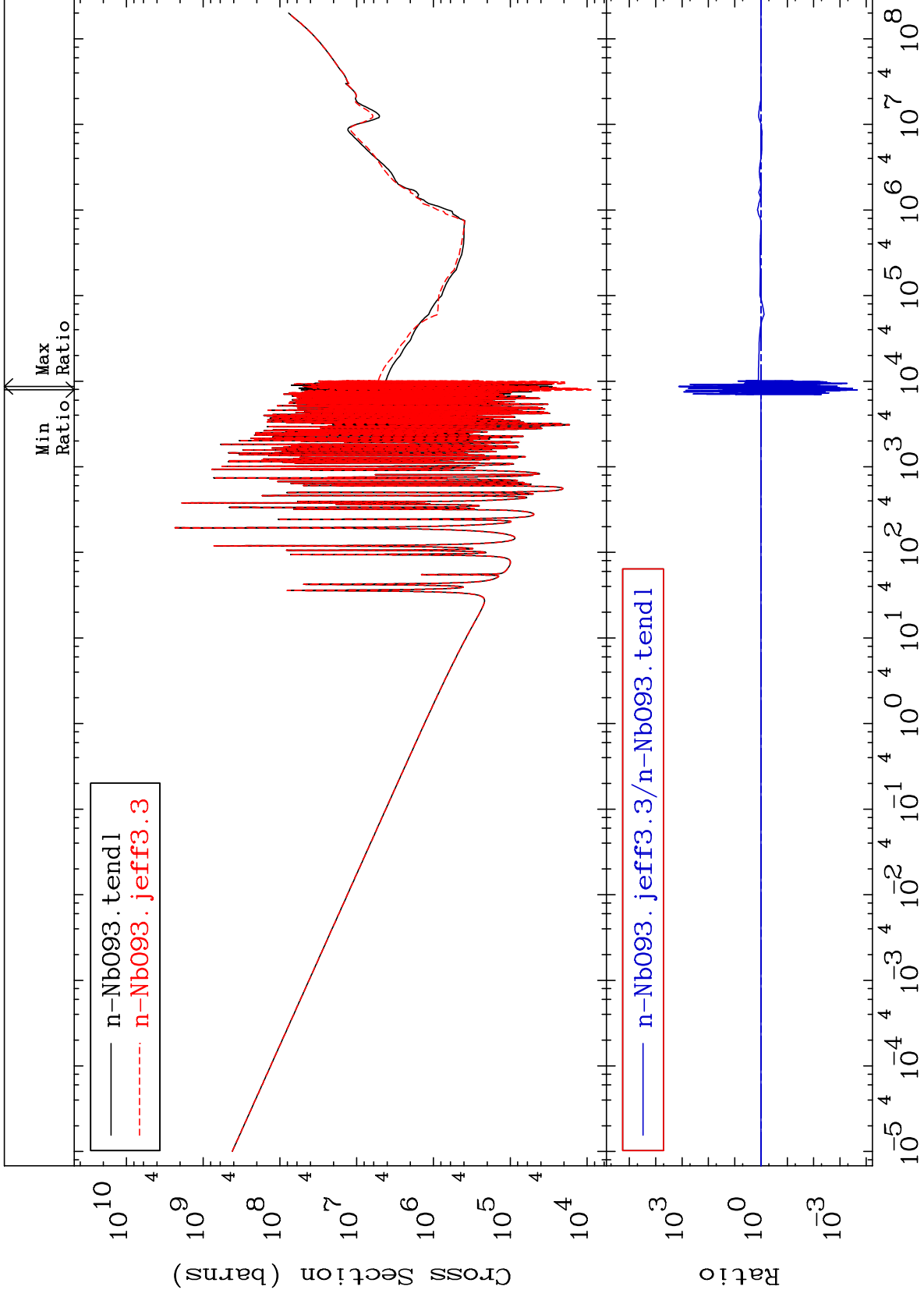
67

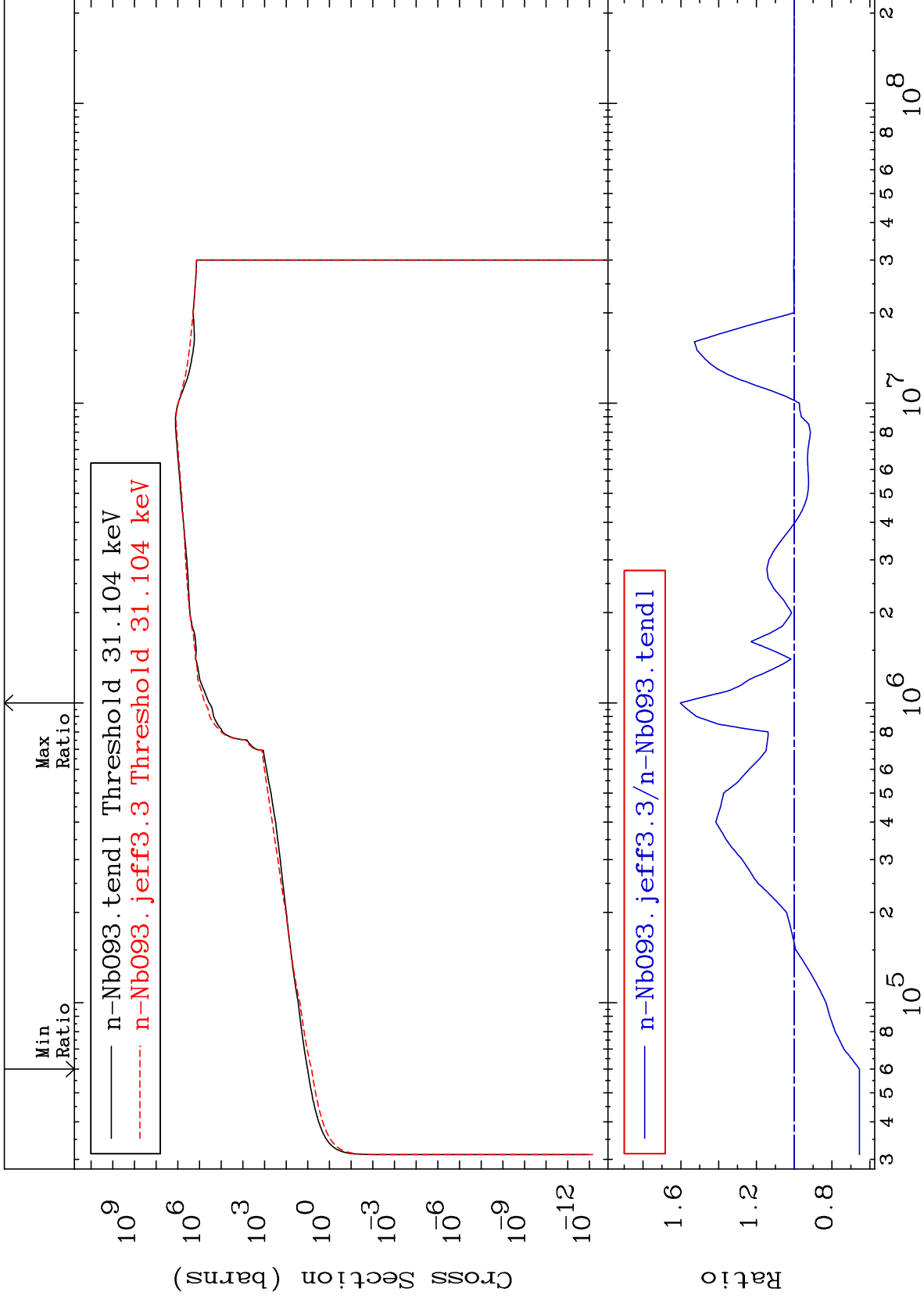
Incident Energy (eV)

41-Nb-93





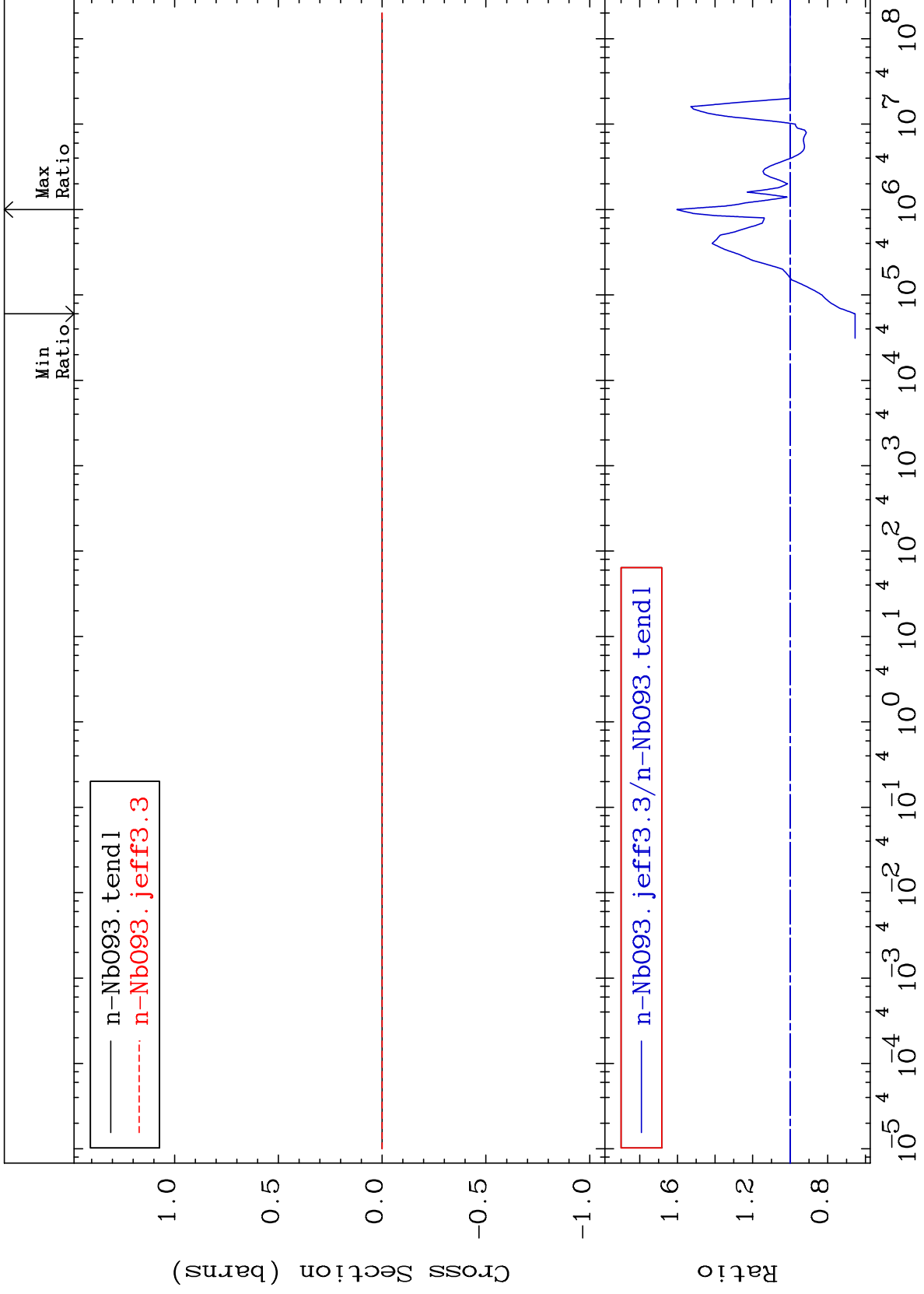


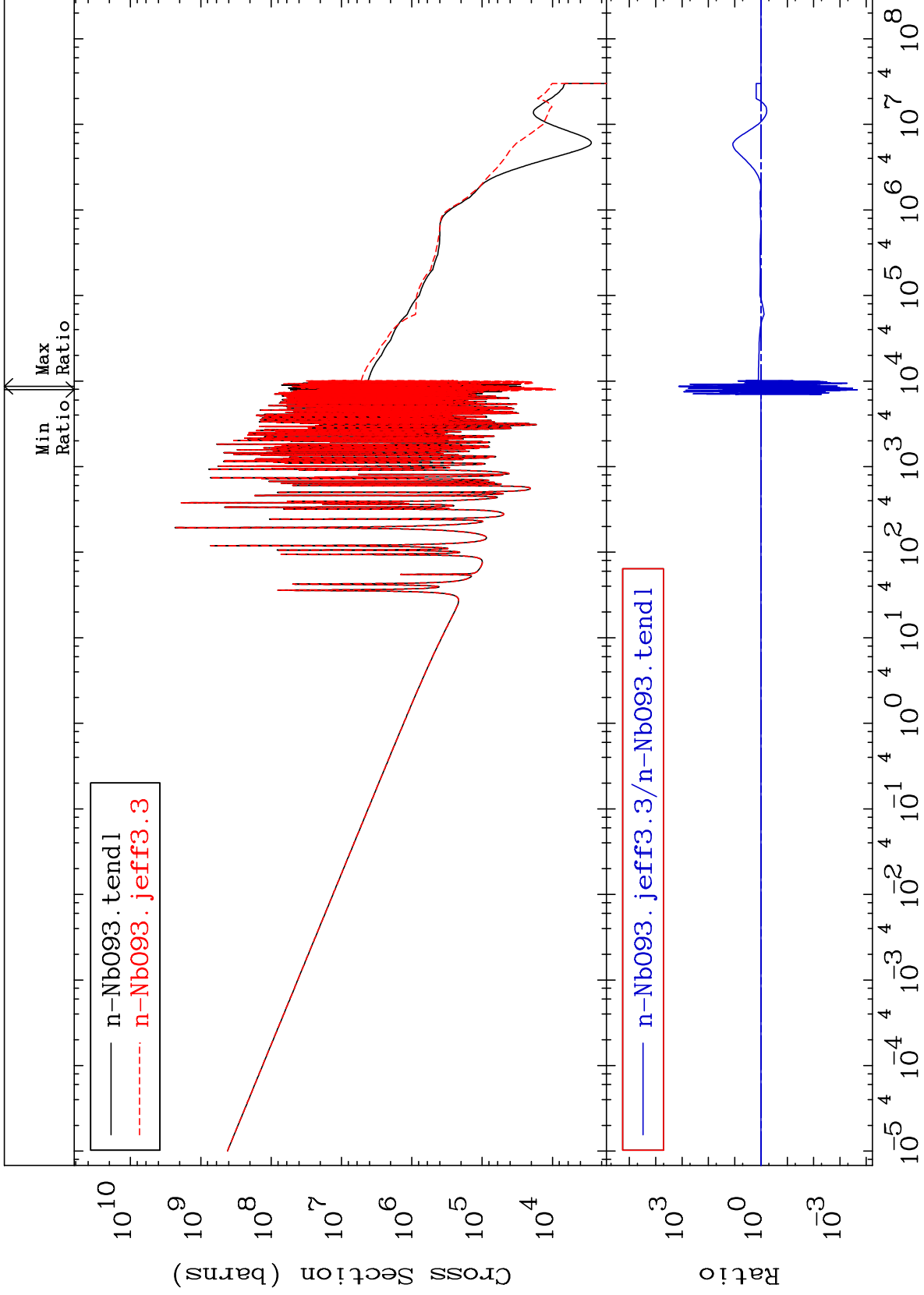


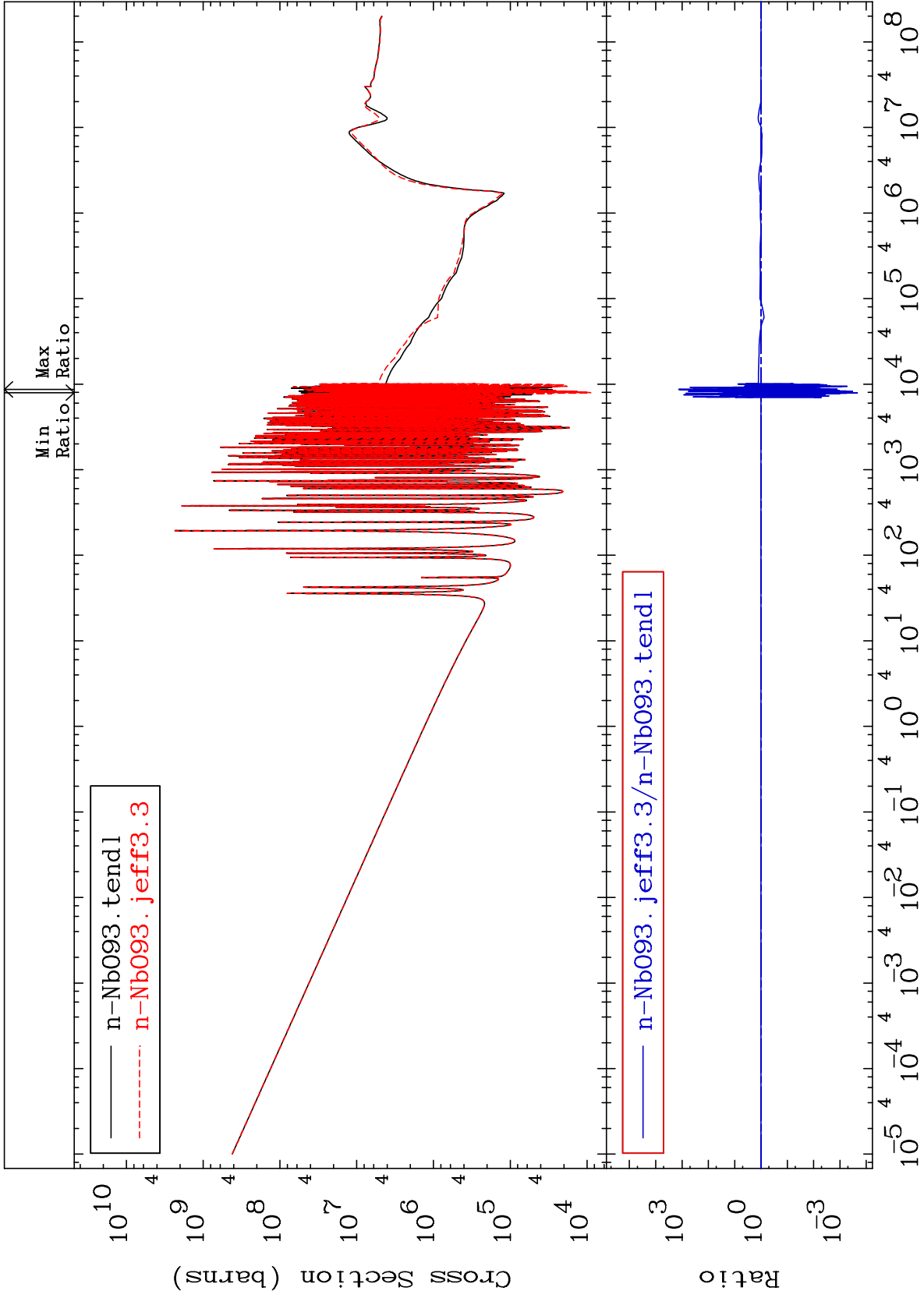
MAT 4125

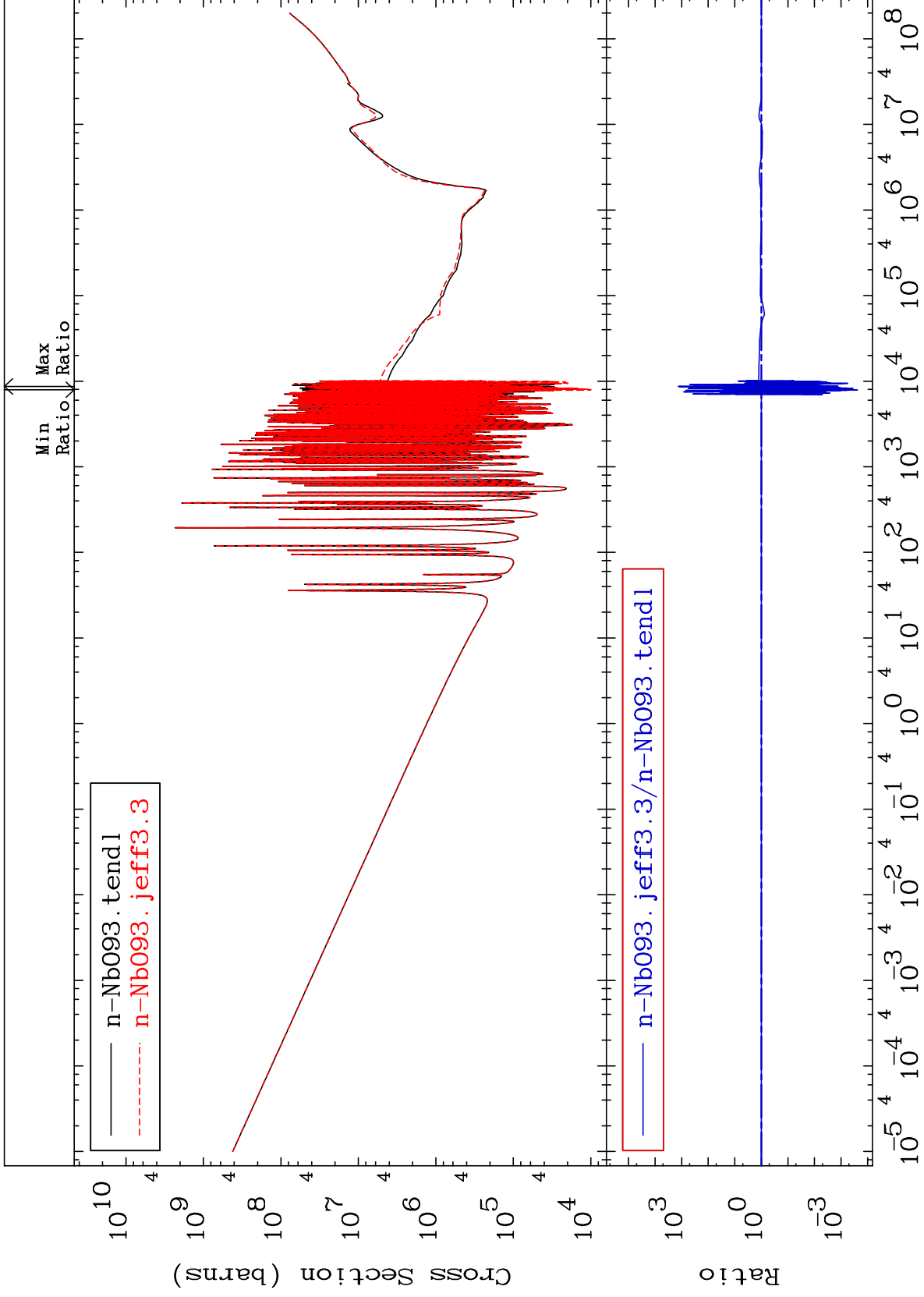
Kerma fission (mt18 or mt19-20-21-38)
Cross Section

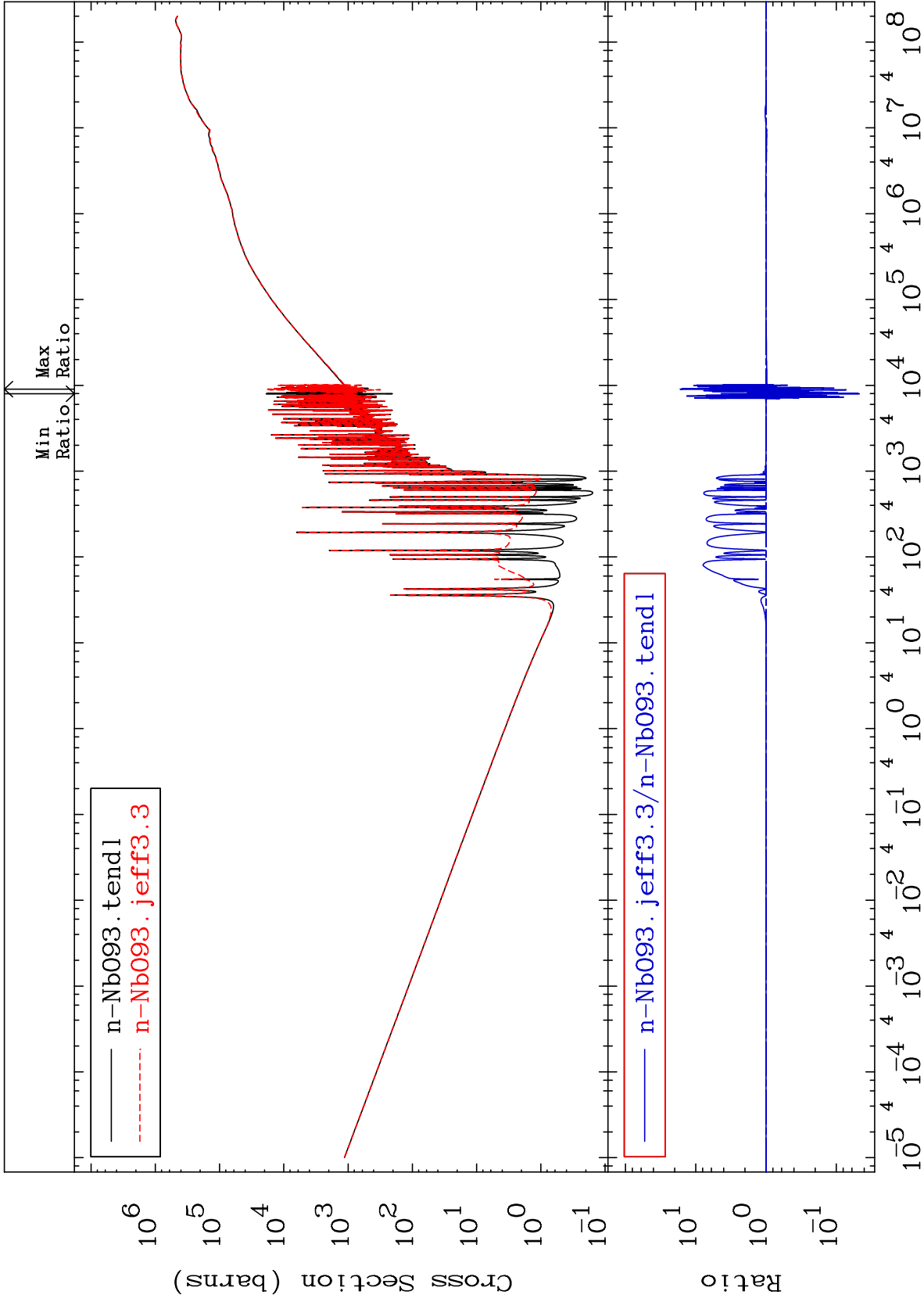
41-Nb-93
-34.54 To 60.26 %

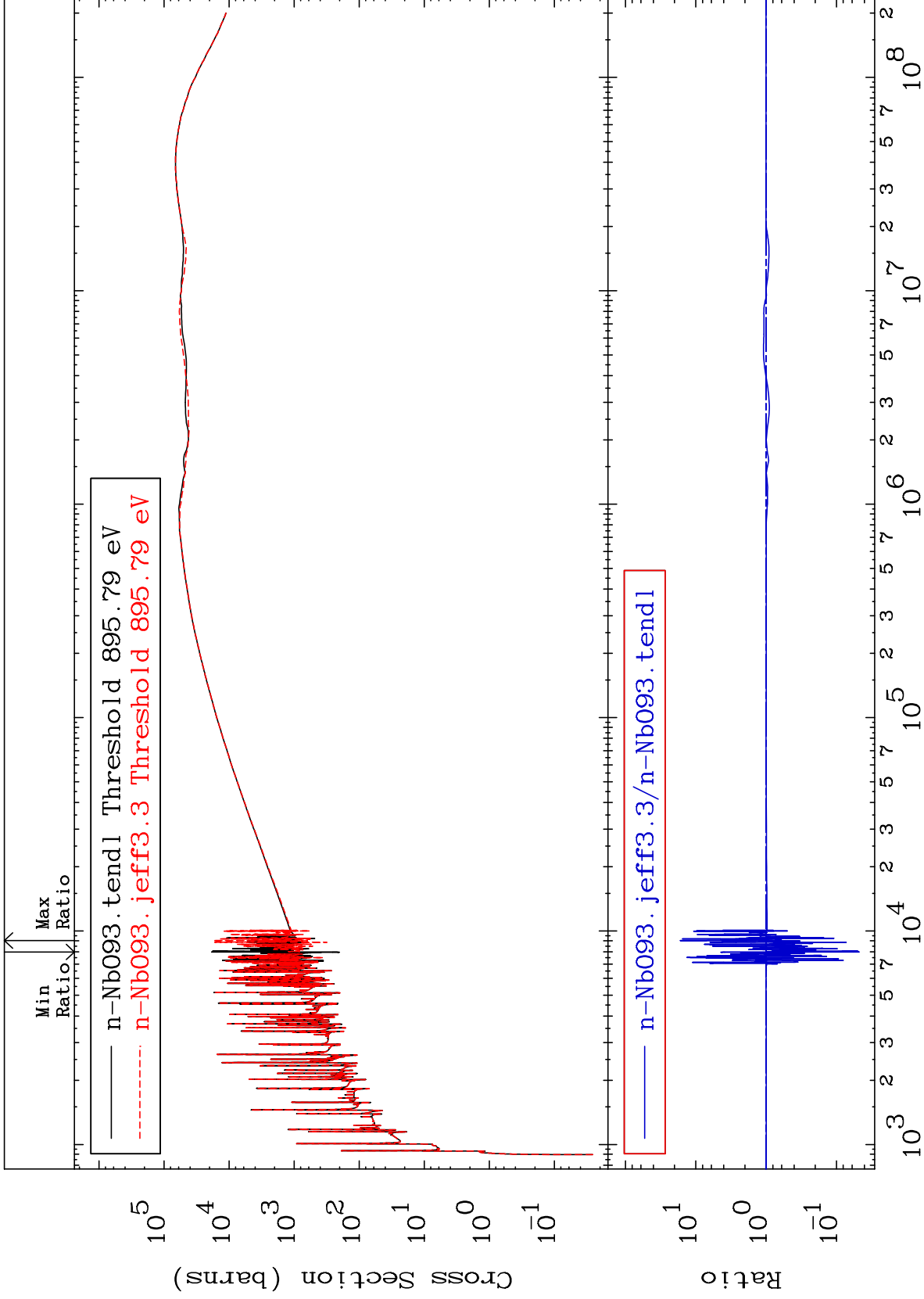


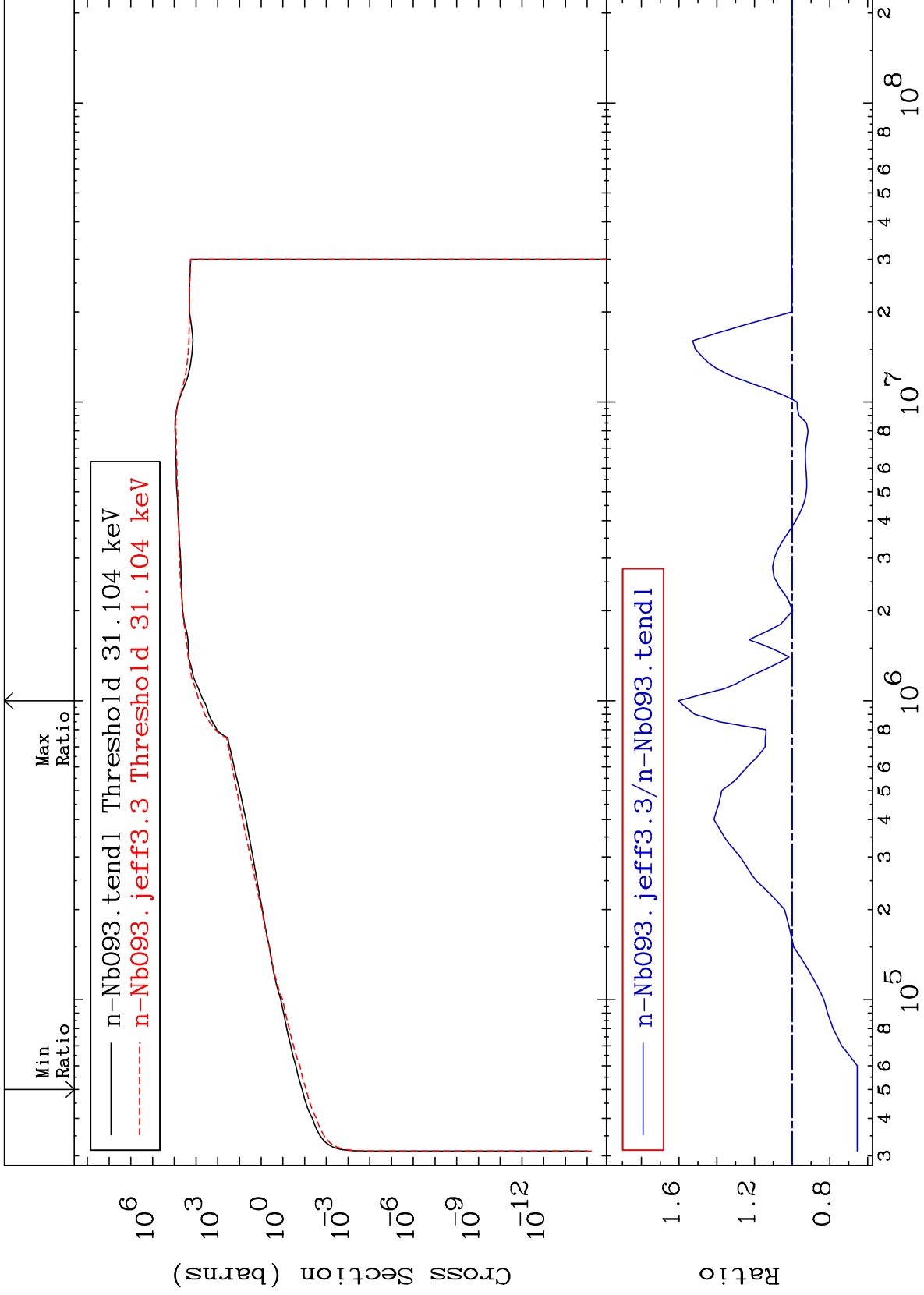


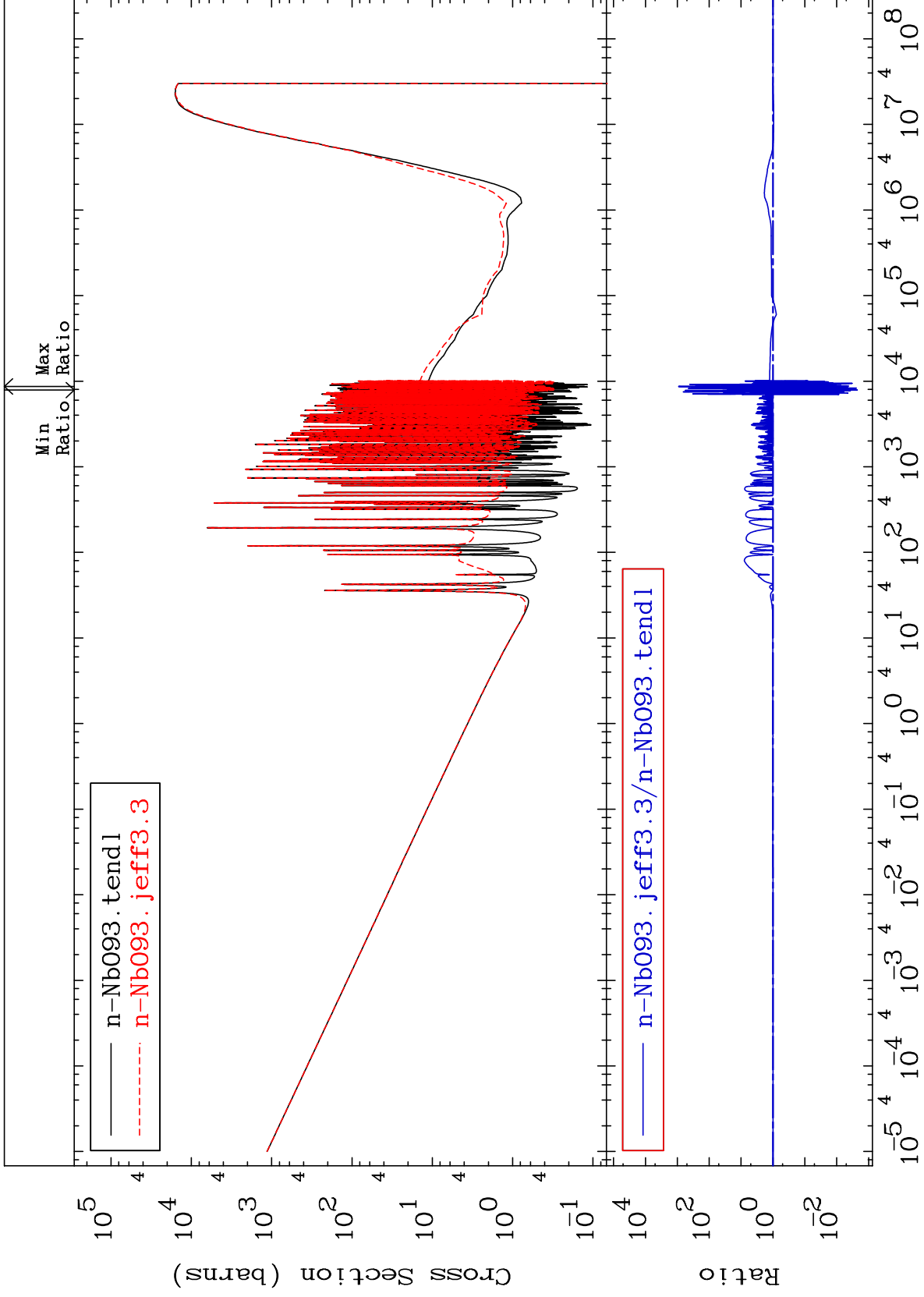








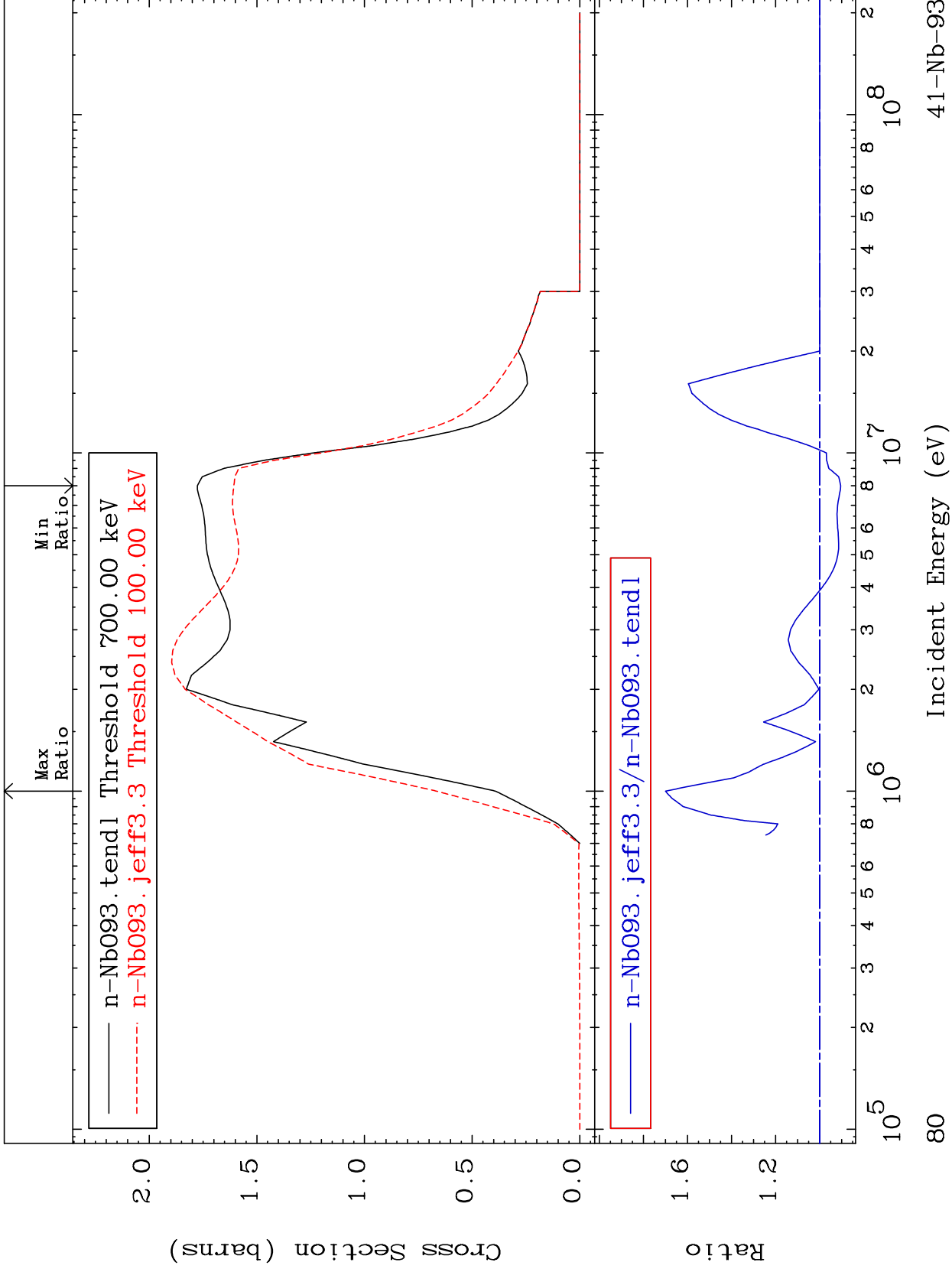




MAT 4125

Inelastic: 41-Nb-93
Radionuclide Production Cross Section -9.562 To 70.00 %

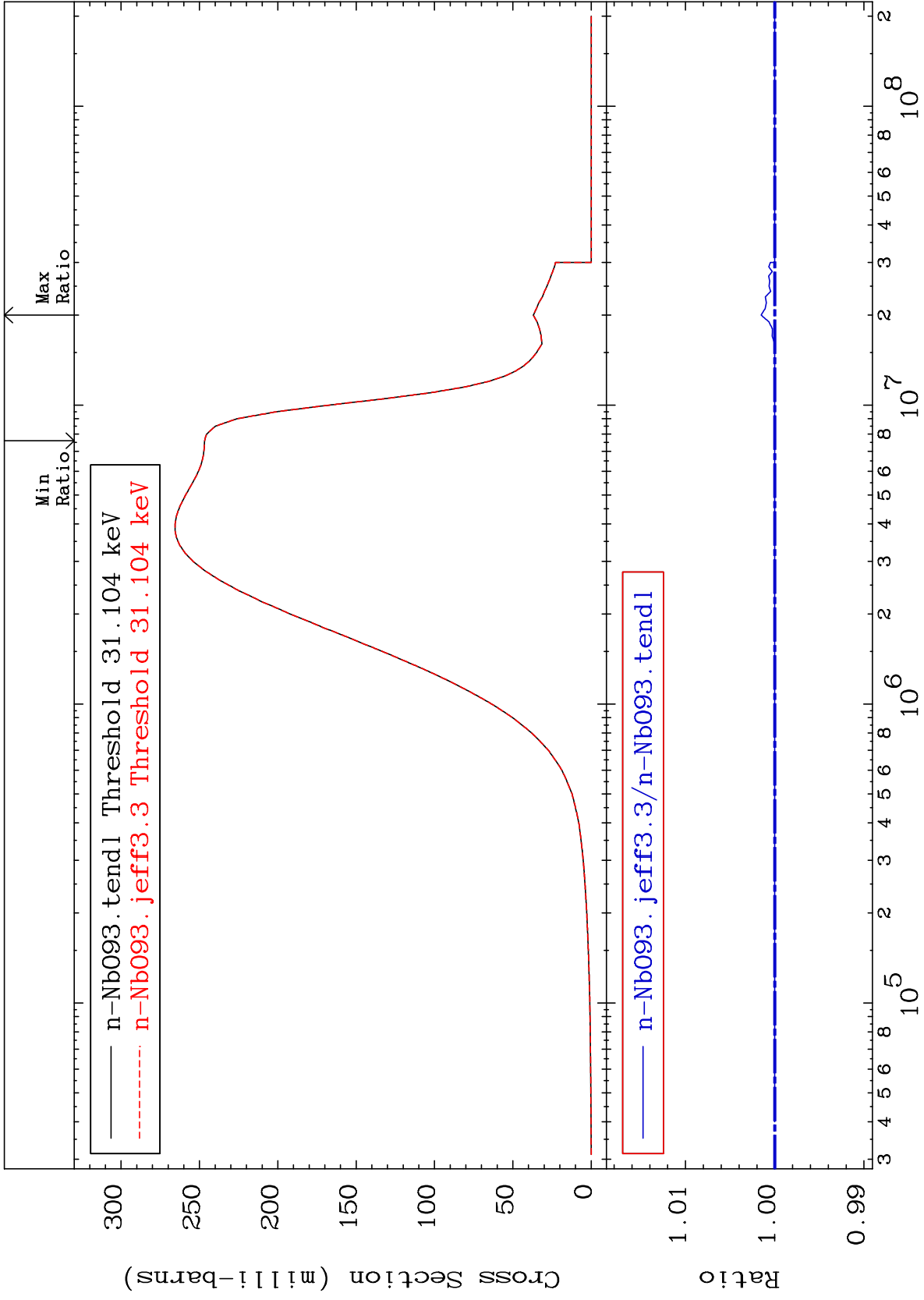
41-Nb-93



MAT 4125

Inelastic: 41-Nb-93m1
Radionuclide Production Cross Section 0.000 To 0.153 %

41-Nb-93



81

Incident Energy (eV)

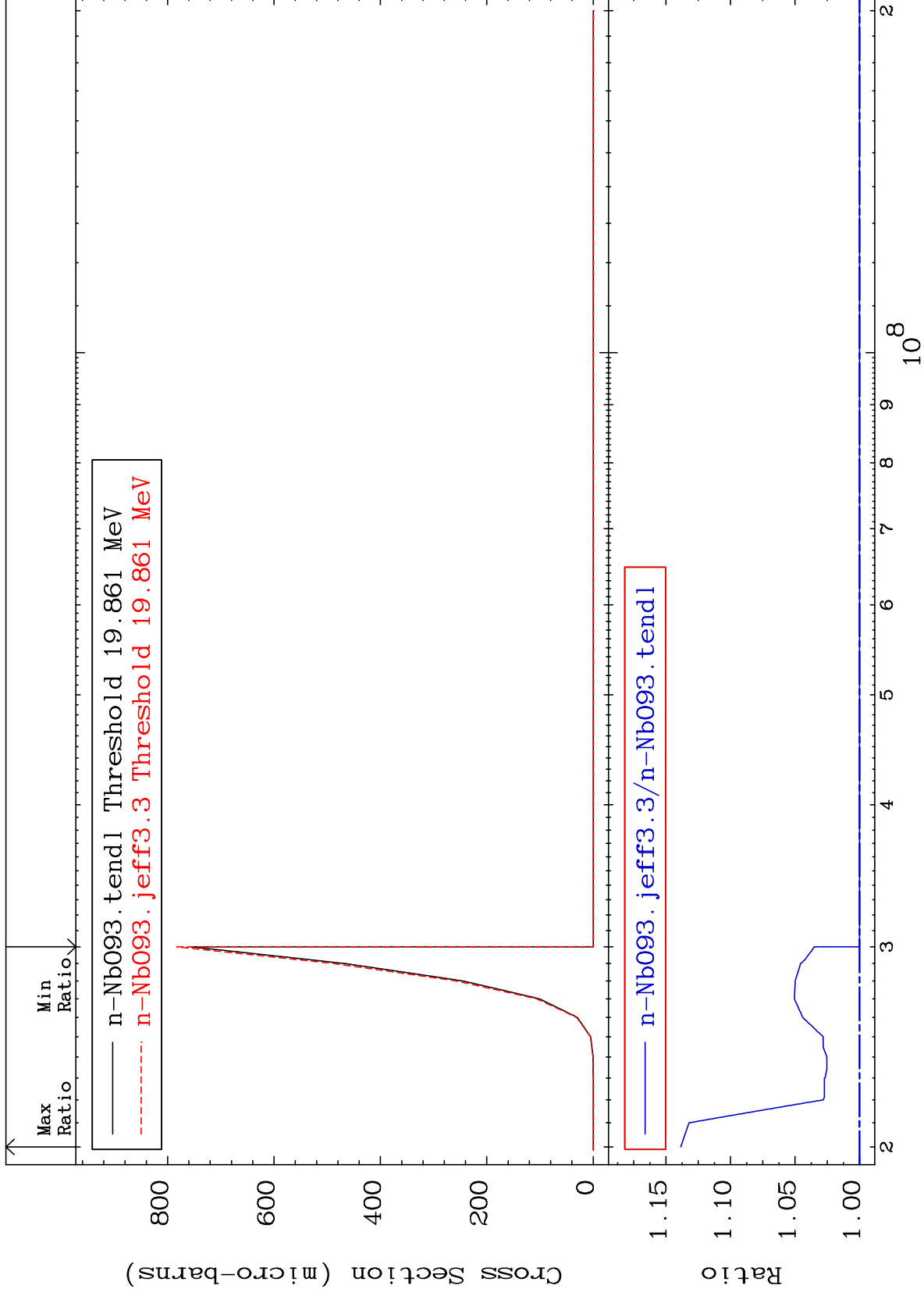
41-Nb-93

MAT 4125

(n,2n) d:40-Zr-90g

41-Nb-93

Radionuclide Production Cross Section 0.000 To 13.86 %

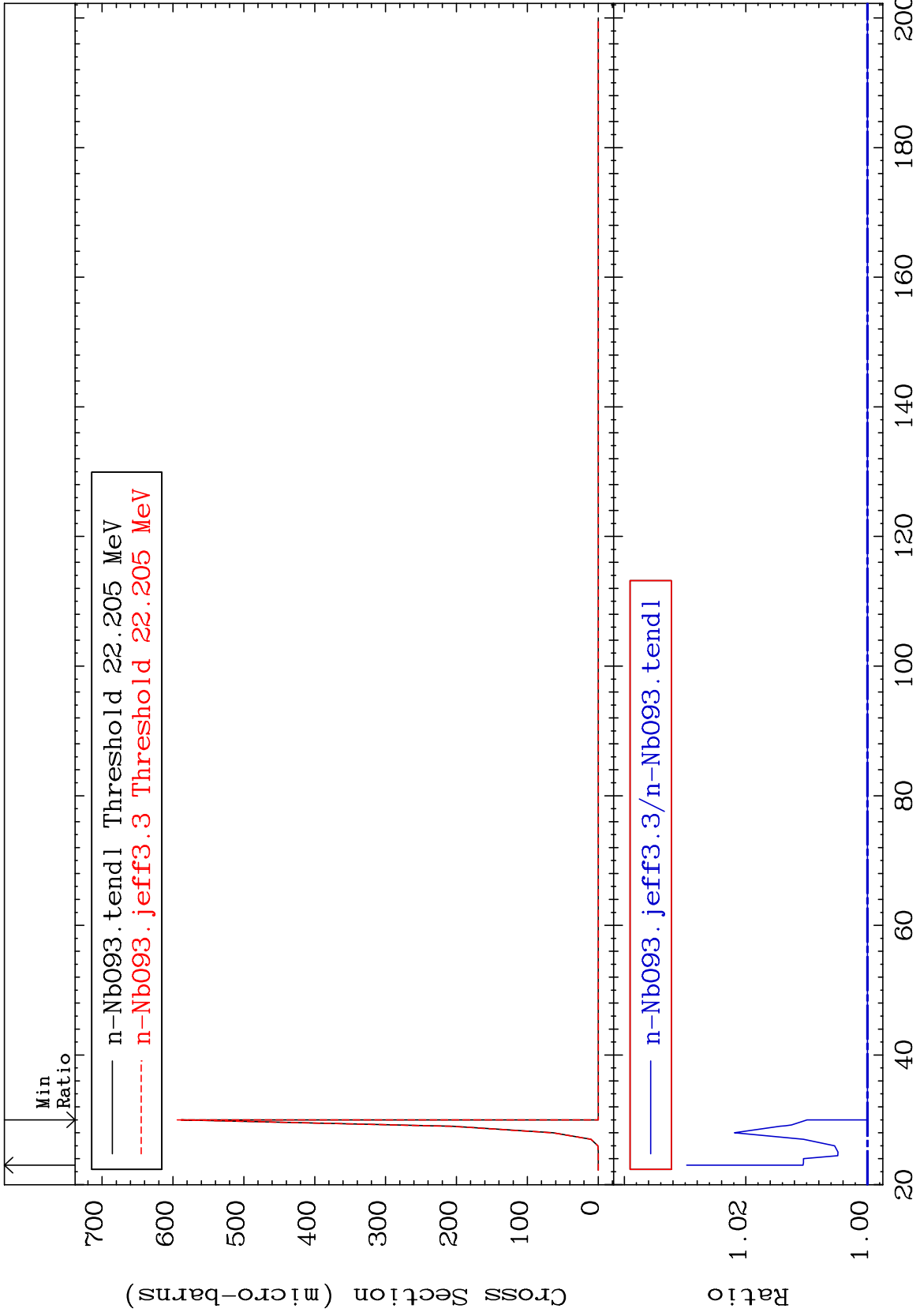


MAT 4125

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

41-Nb-93

Radionuclide Production Cross Section 0.000 To 2.973 %



83

Incident Energy (MeV)

41-Nb-93

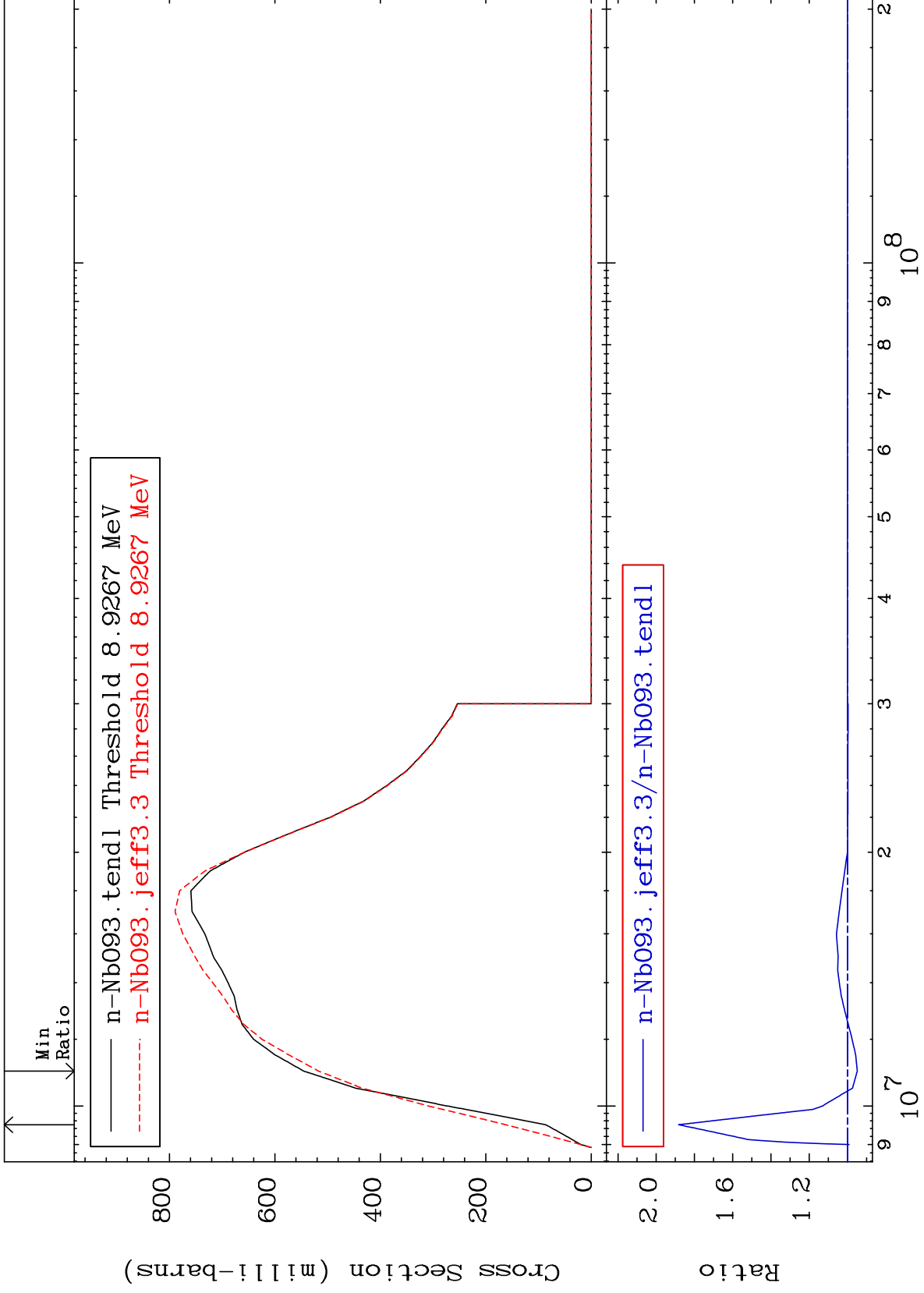
MAT 4125

(n,2n): 41-Nb-92g

41-Nb-93

Radionuclide Production Cross Section

-5.159 To 88.27 %



84

Incident Energy (eV)

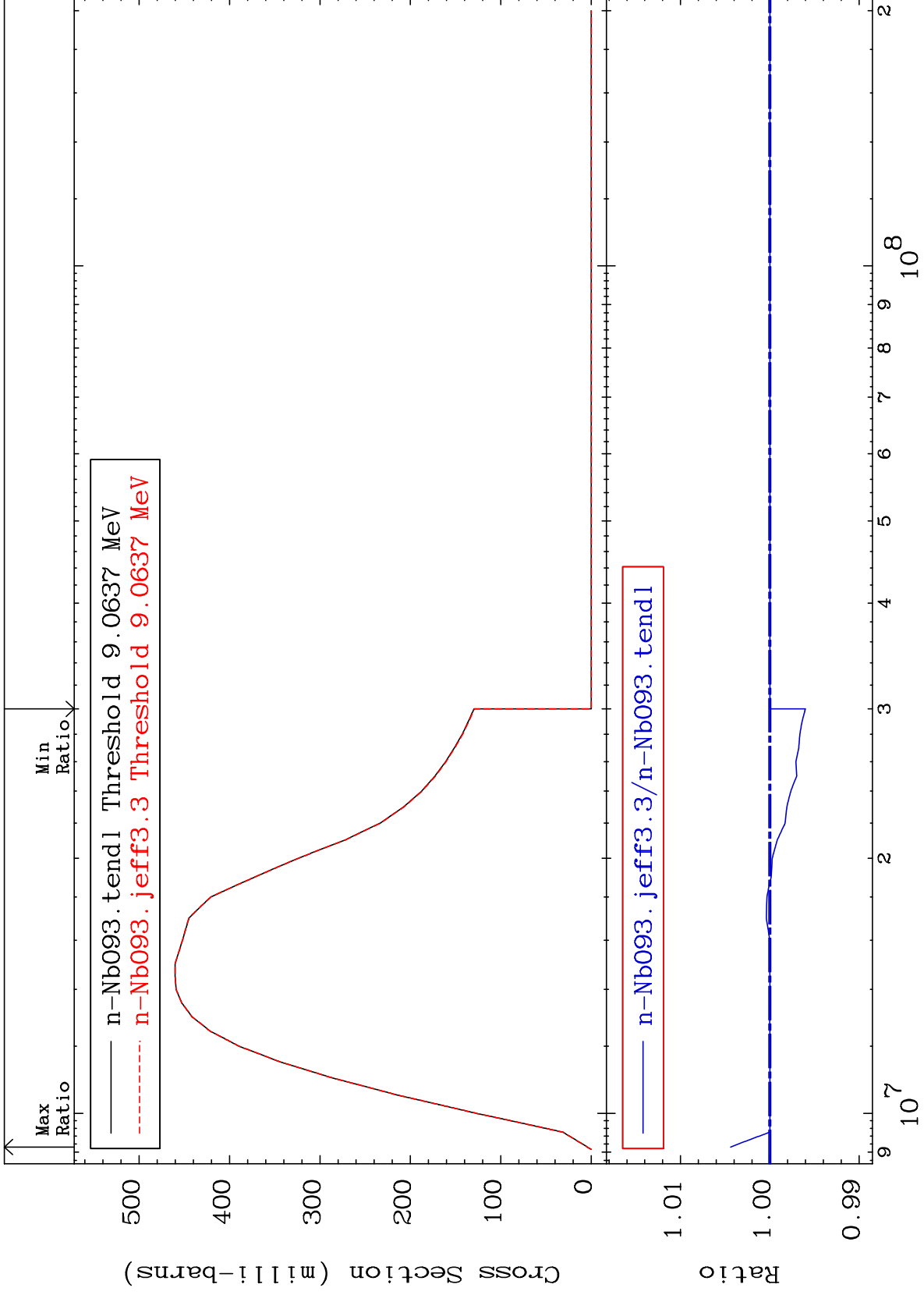
41-Nb-93

MAT 4125

(n,2n):41-Nb-92m1

41-Nb-93

Radionuclide Production Cross Section -0.399 To 0.440 %

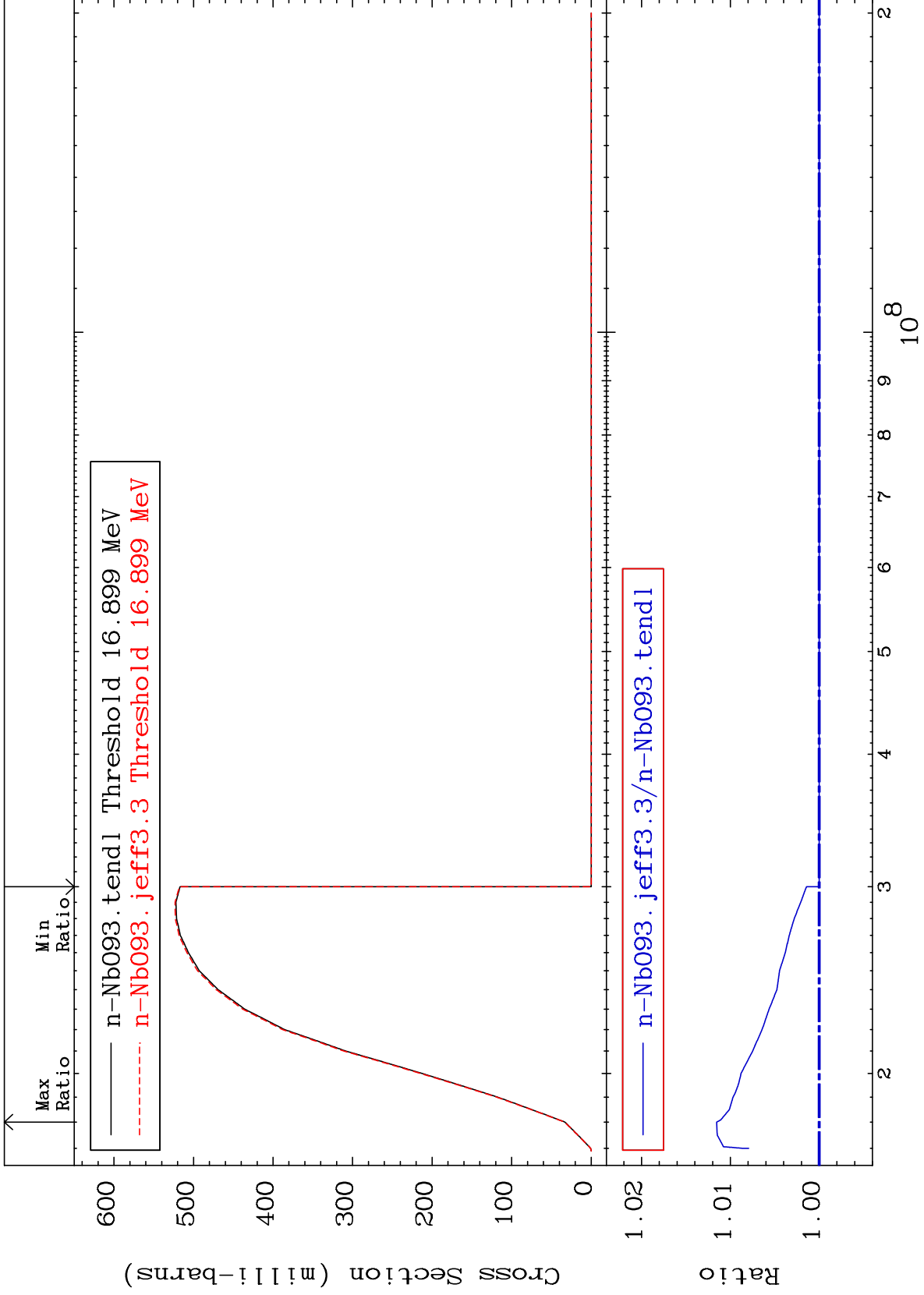


85

Incident Energy (eV)

41-Nb-93

Radionuclide Production Cross Section 0.000 To 1.154 %

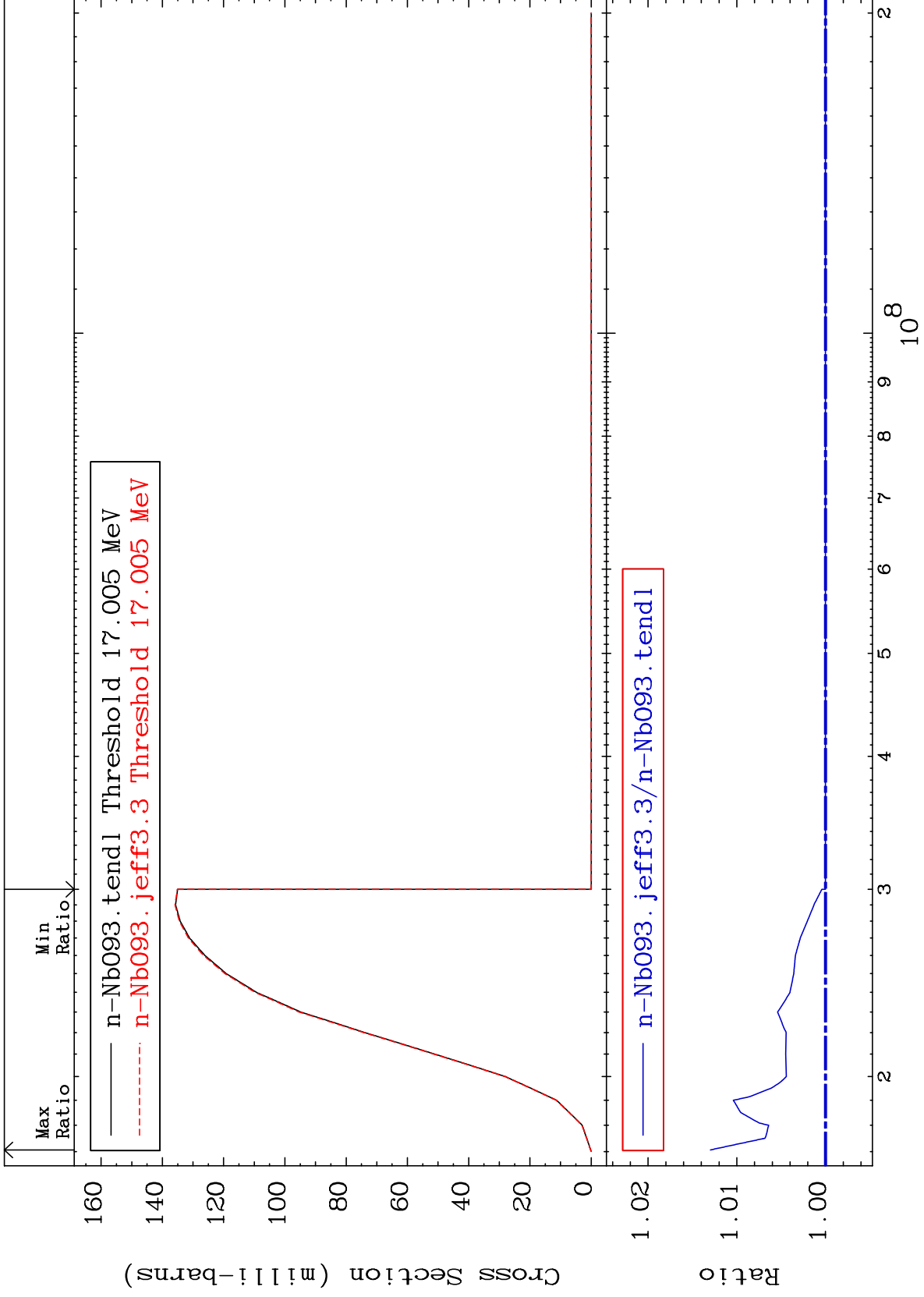


MAT 4125

(n,3n):41-Nb-91m1

41-Nb-93

Radionuclide Production Cross Section 0.000 To 1.298 %

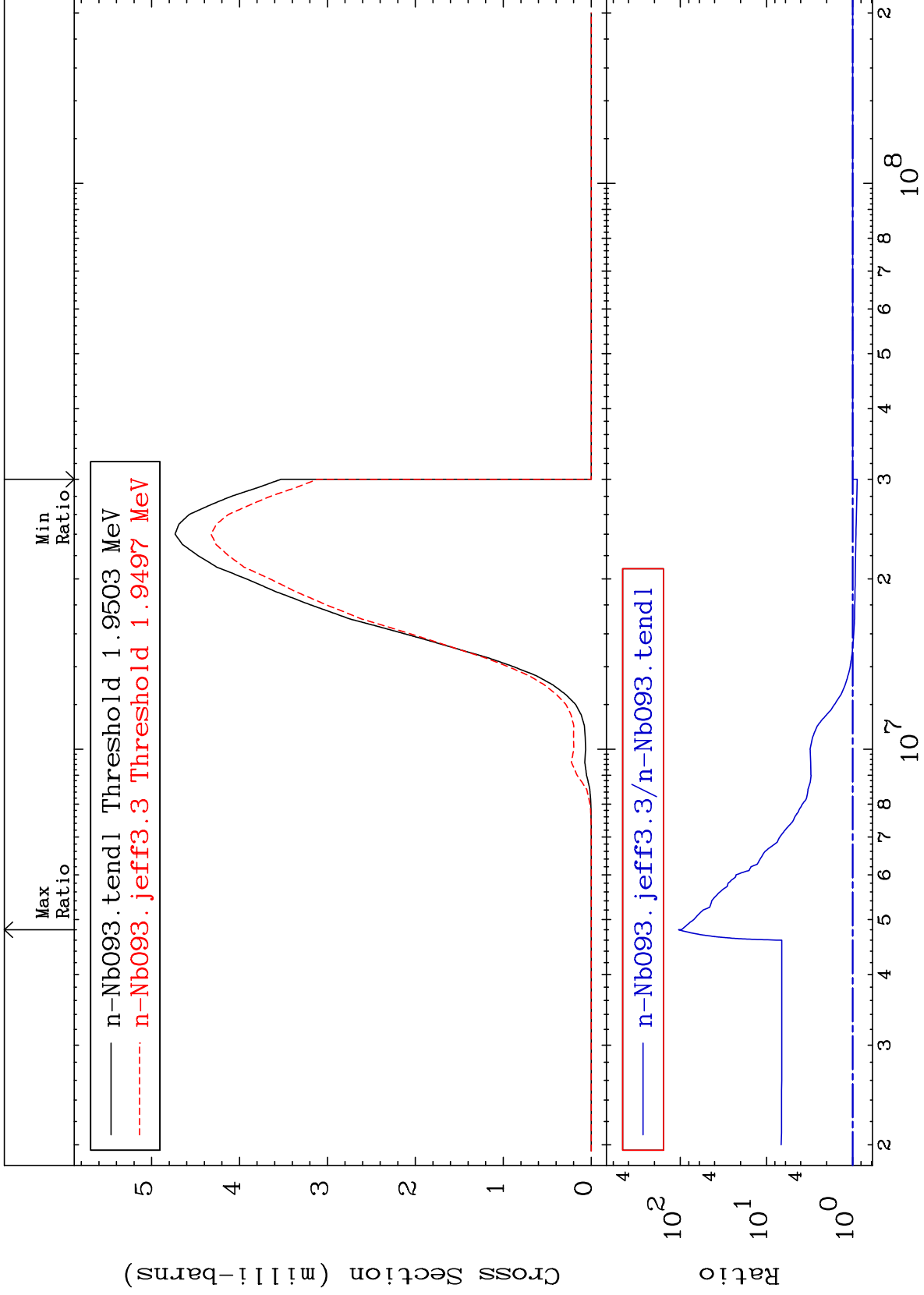


MAT 4125

(n, n') α :39-Y -89g

41-Nb-93

Radionuclide Production Cross Section -11.73 To 9999. %

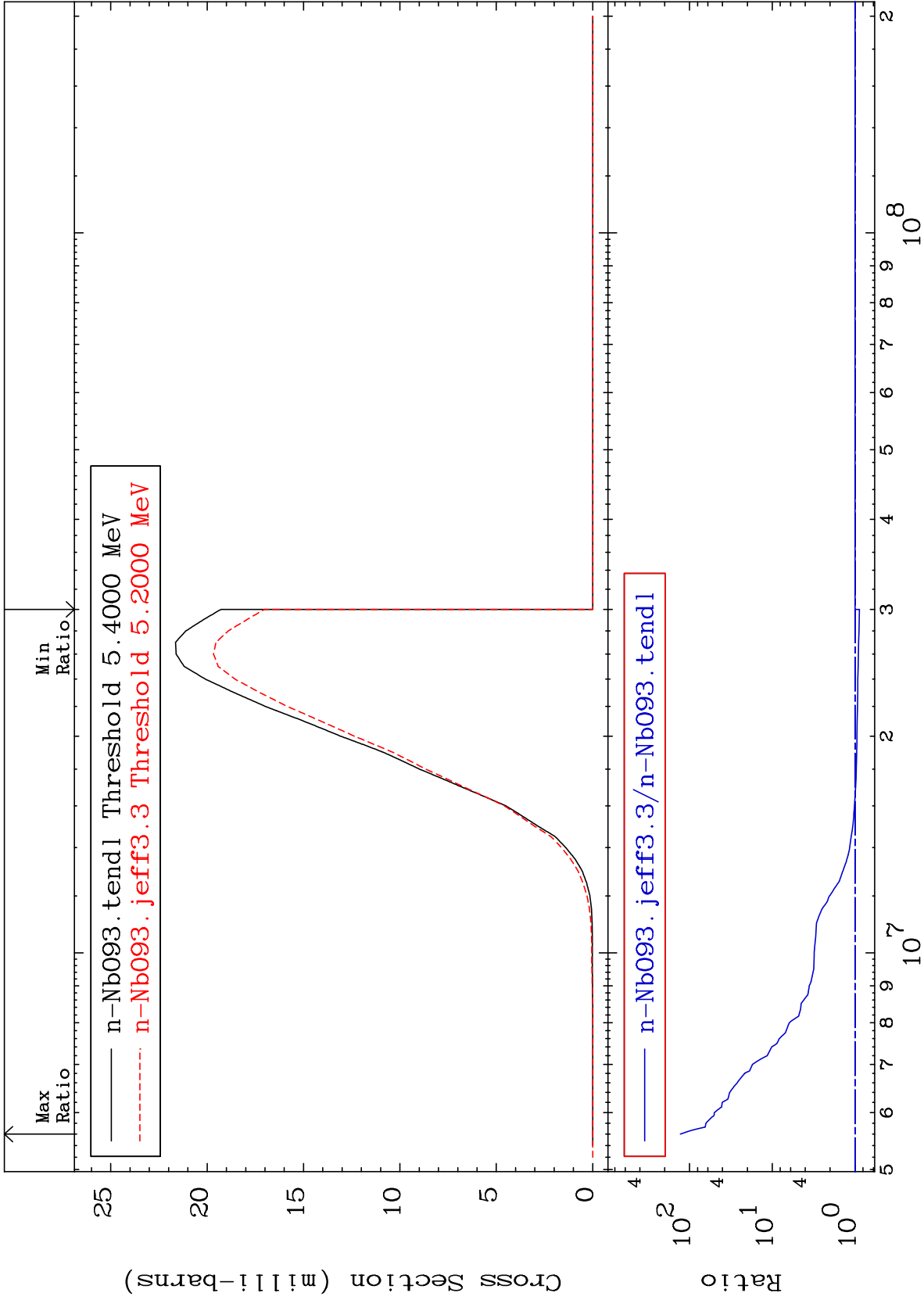


88

Incident Energy (eV)

41-Nb-93

Radionuclide Production Cross Section -11.67 To 9999. %

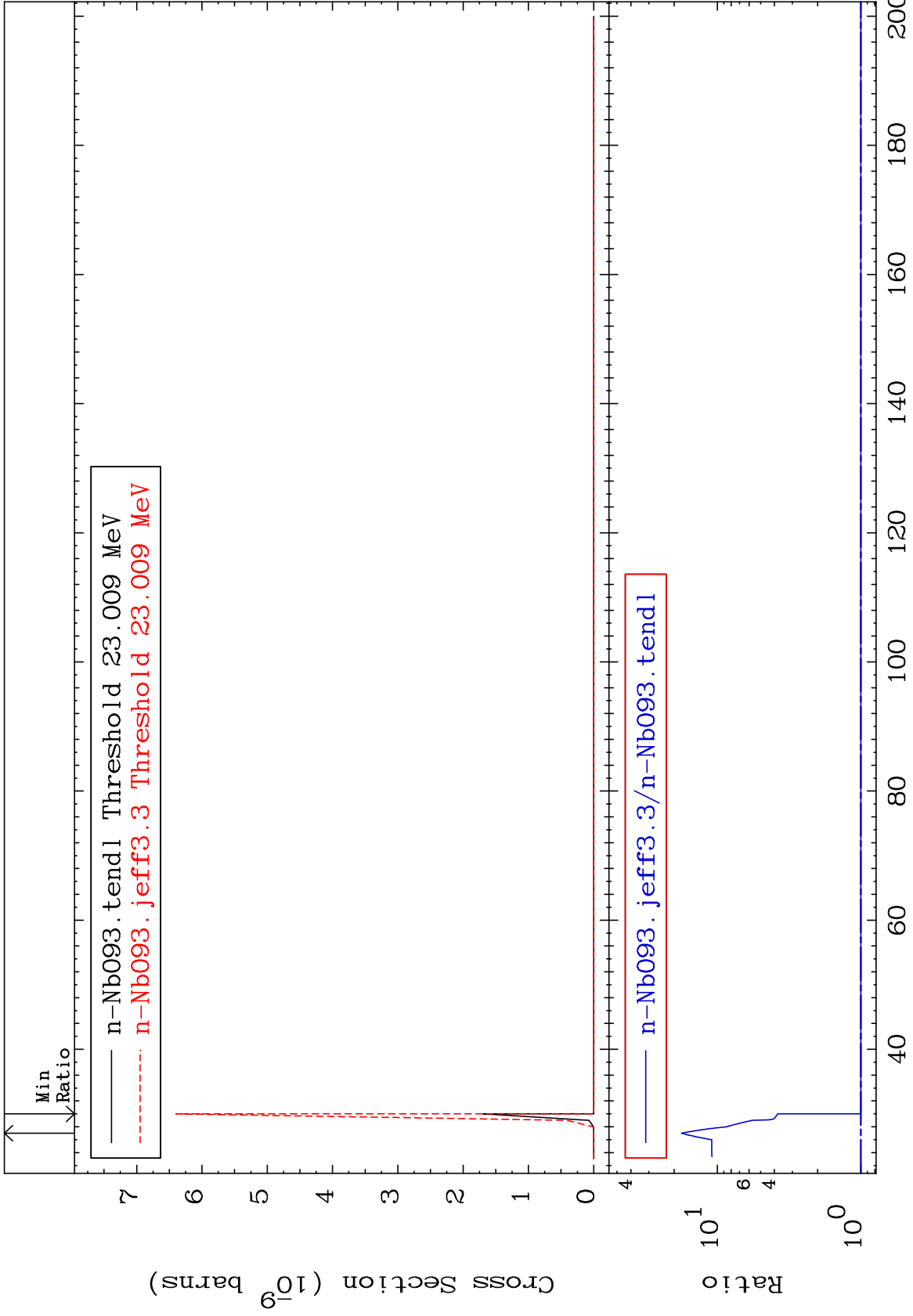


MAT 4125

(n,3n) α :39-Y -87g

41-Nb-93

Radionuclide Production Cross Section 0.000 To 1676. %



90

Incident Energy (MeV)

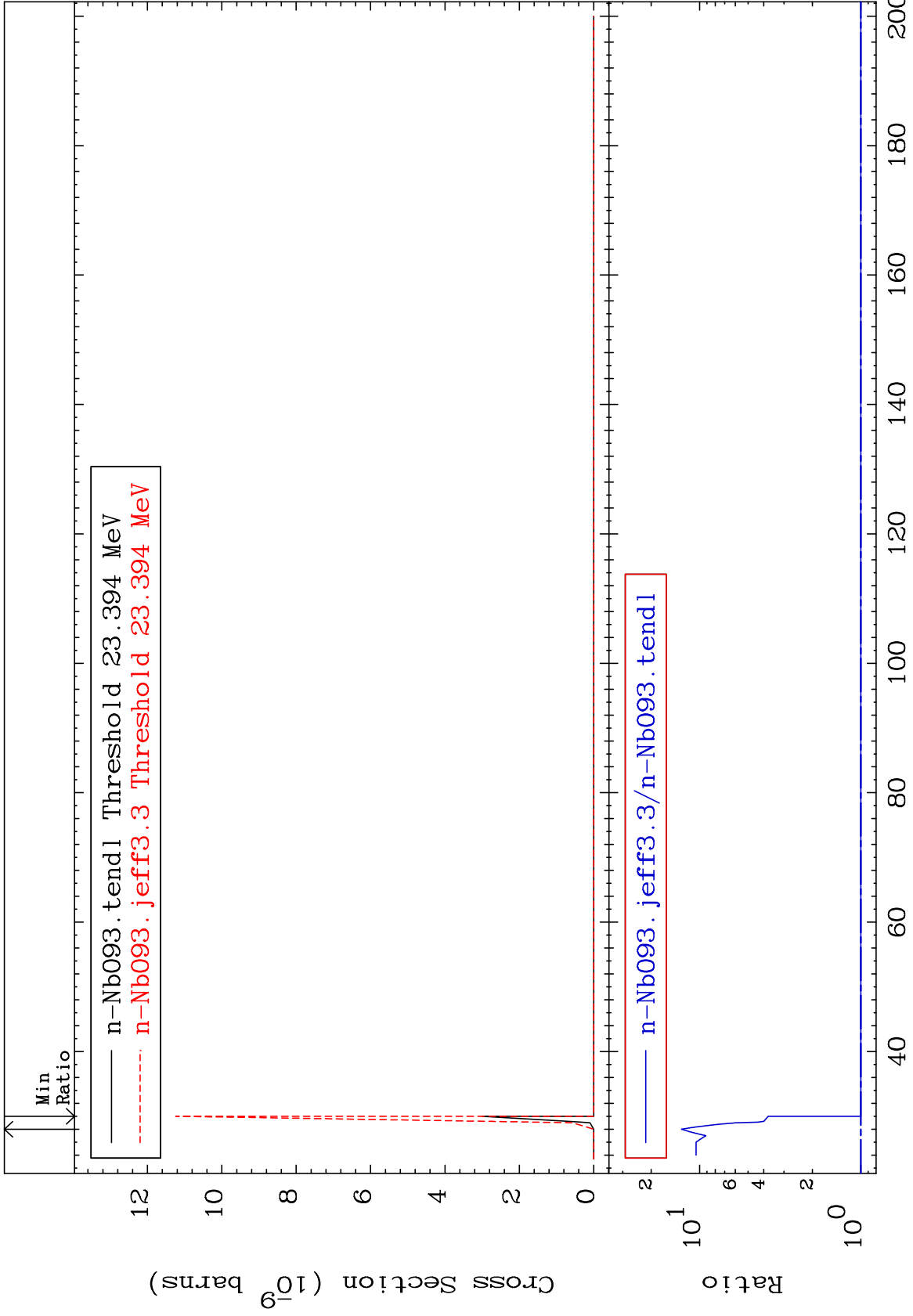
41-Nb-93

MAT 4125

(n,3n) α :39-Y -87m1

41-Nb-93

Radionuclide Production Cross Section 0.000 To 1195. %

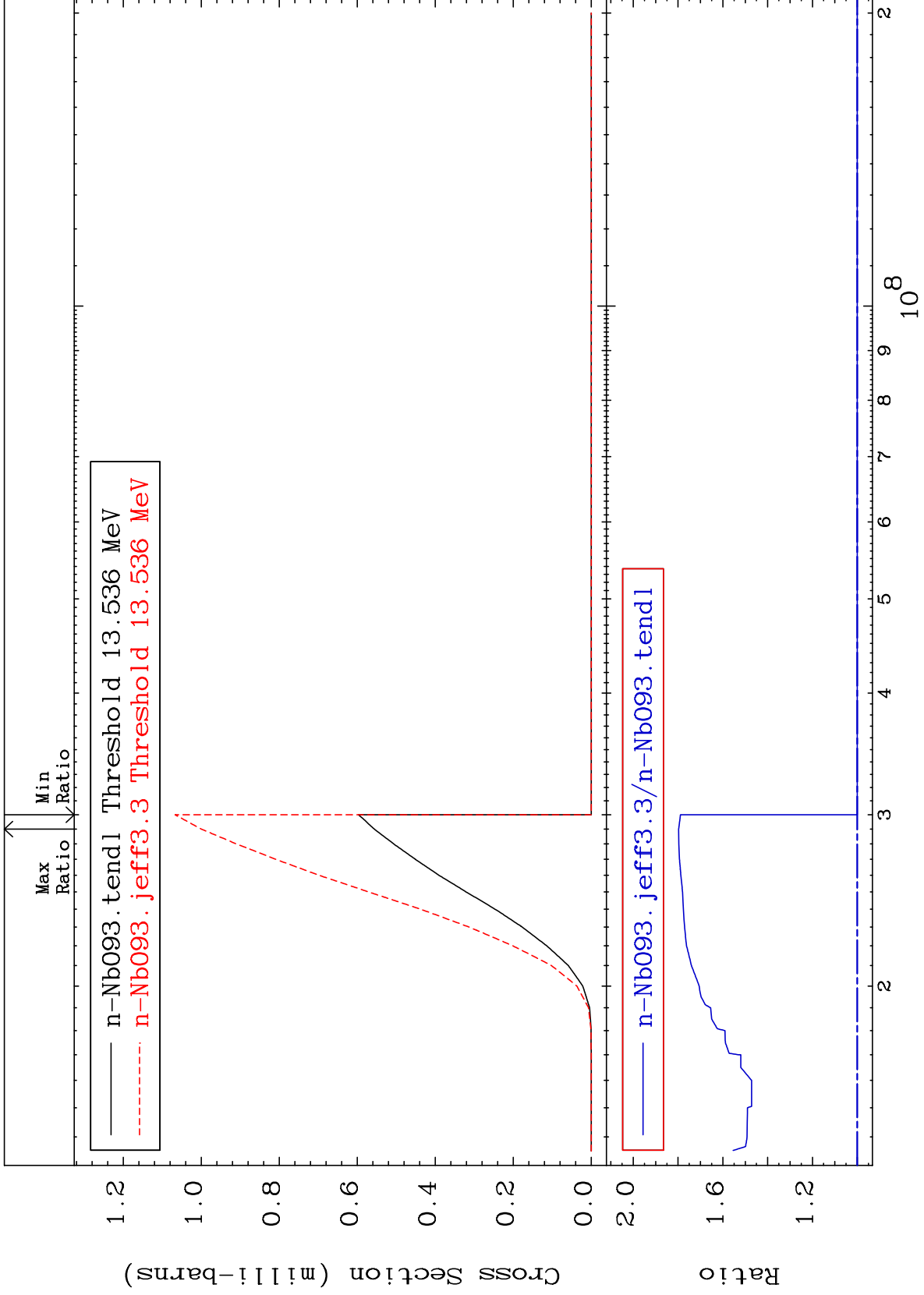


MAT 4125

(n, n') t:40-Zr-90g

41-Nb-93

Radionuclide Production Cross Section 0.000 To 79.75 %

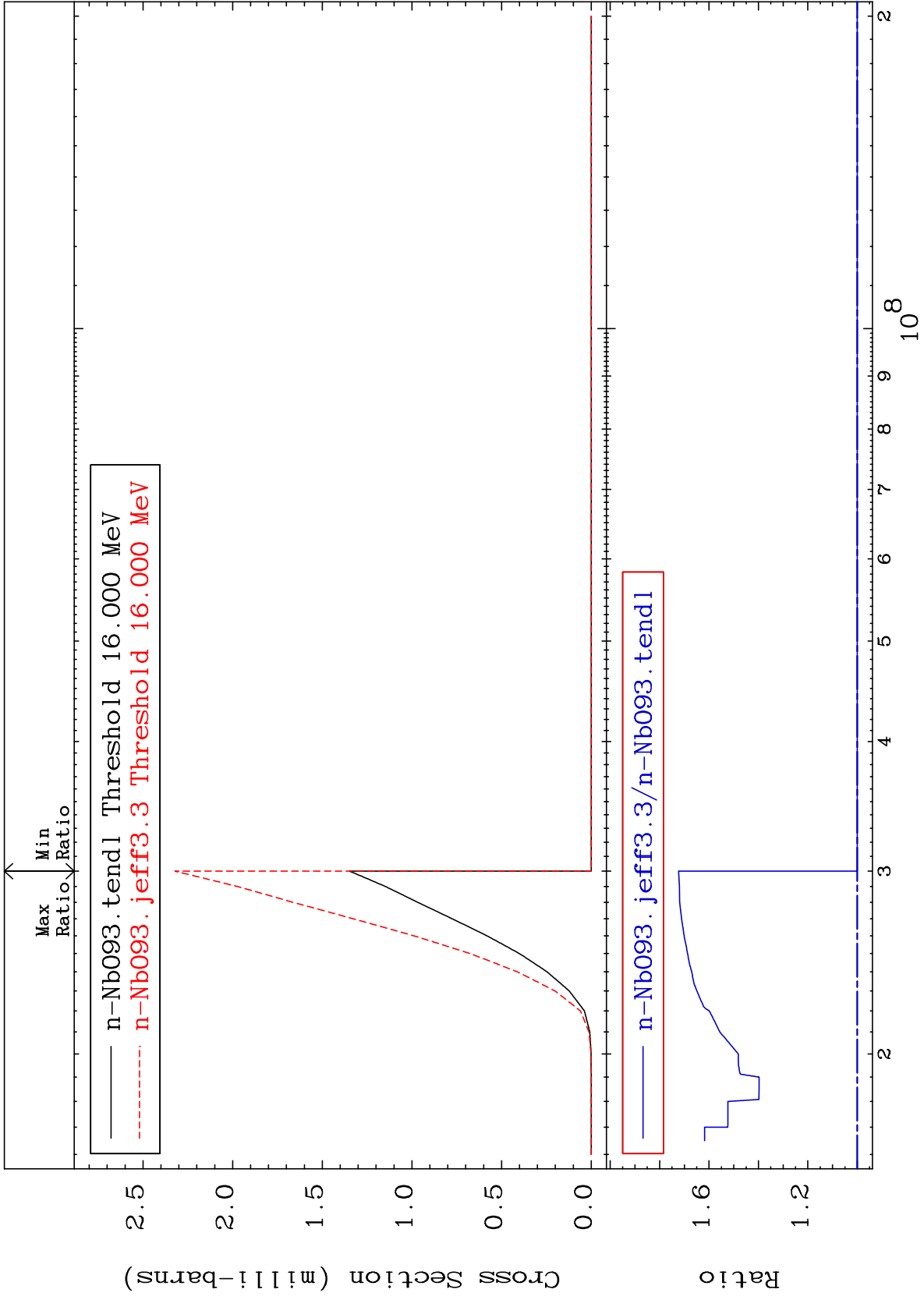


MAT 4125

(n, n') t:40-Zr-90m3

41-Nb-93

Radionuclide Production Cross Section 0.000 To 72.30 %



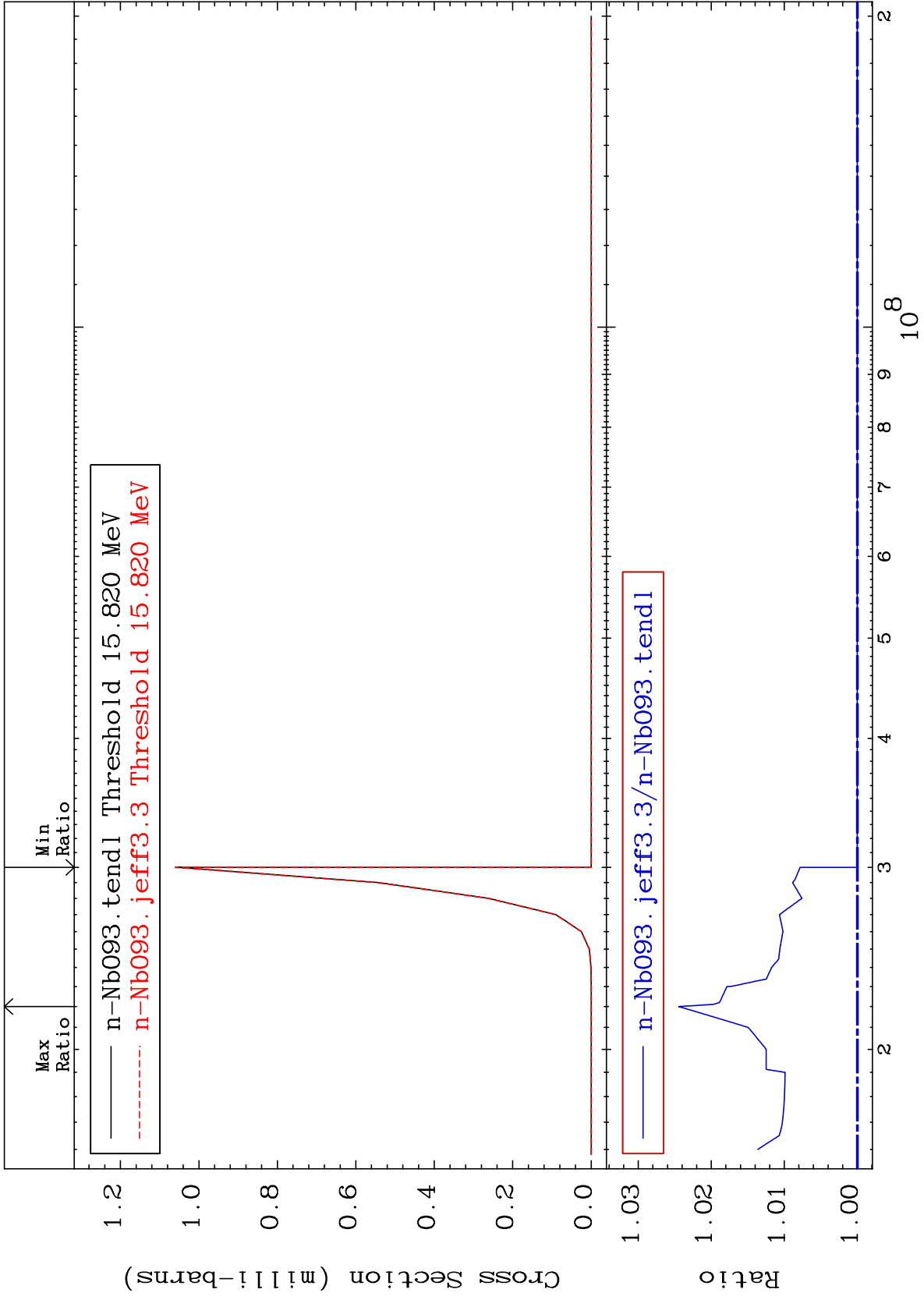
93

Incident Energy (eV)

41-Nb-93

MAT 4125

(n, n') He-3:39-Y -90g 41-Nb-93
Radionuclide Production Cross Section 0.000 To 2.447 %

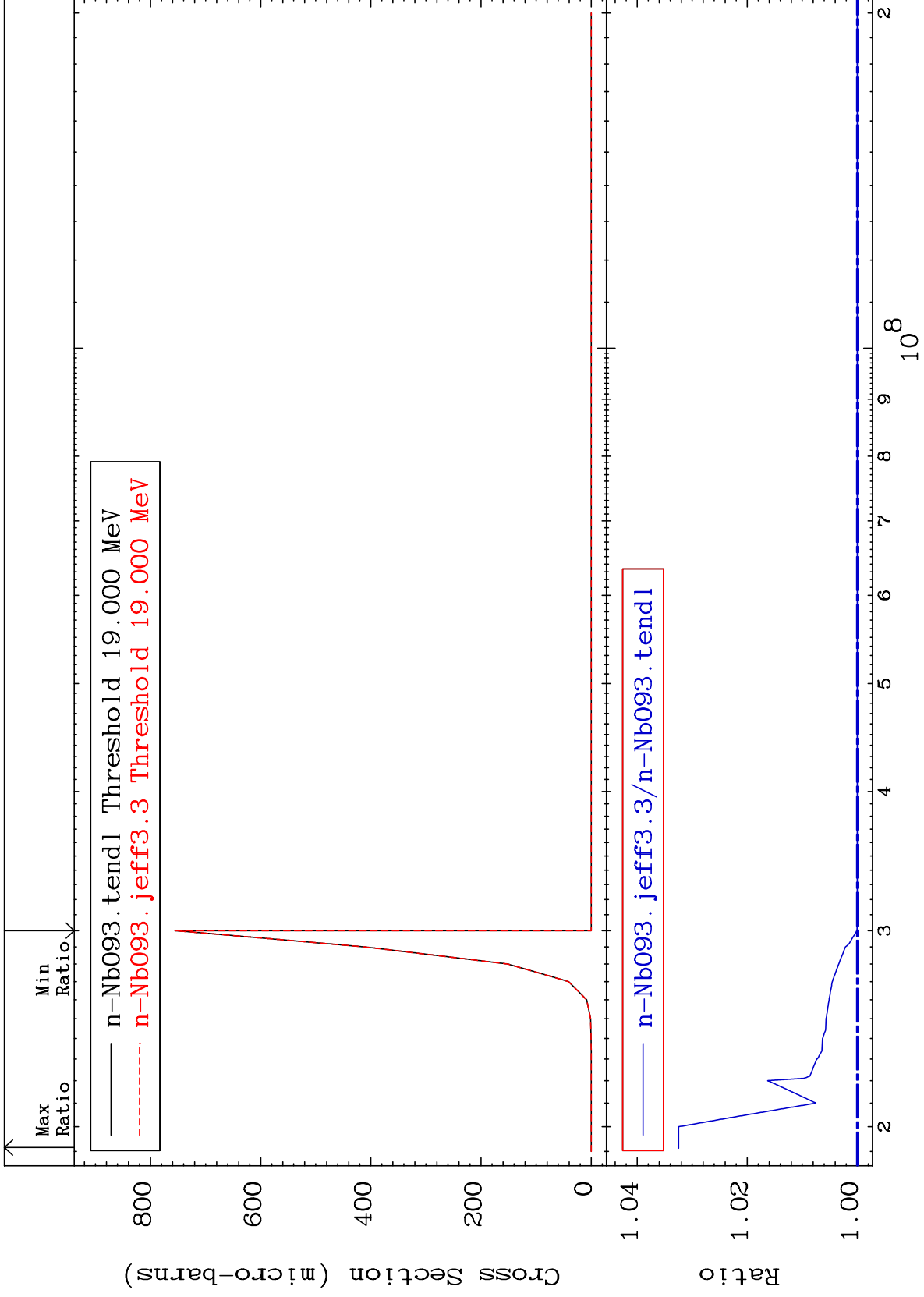


MAT 4125

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

41-Nb-93

Radionuclide Production Cross Section 0.000 To 3.247 %



95

Incident Energy (eV)

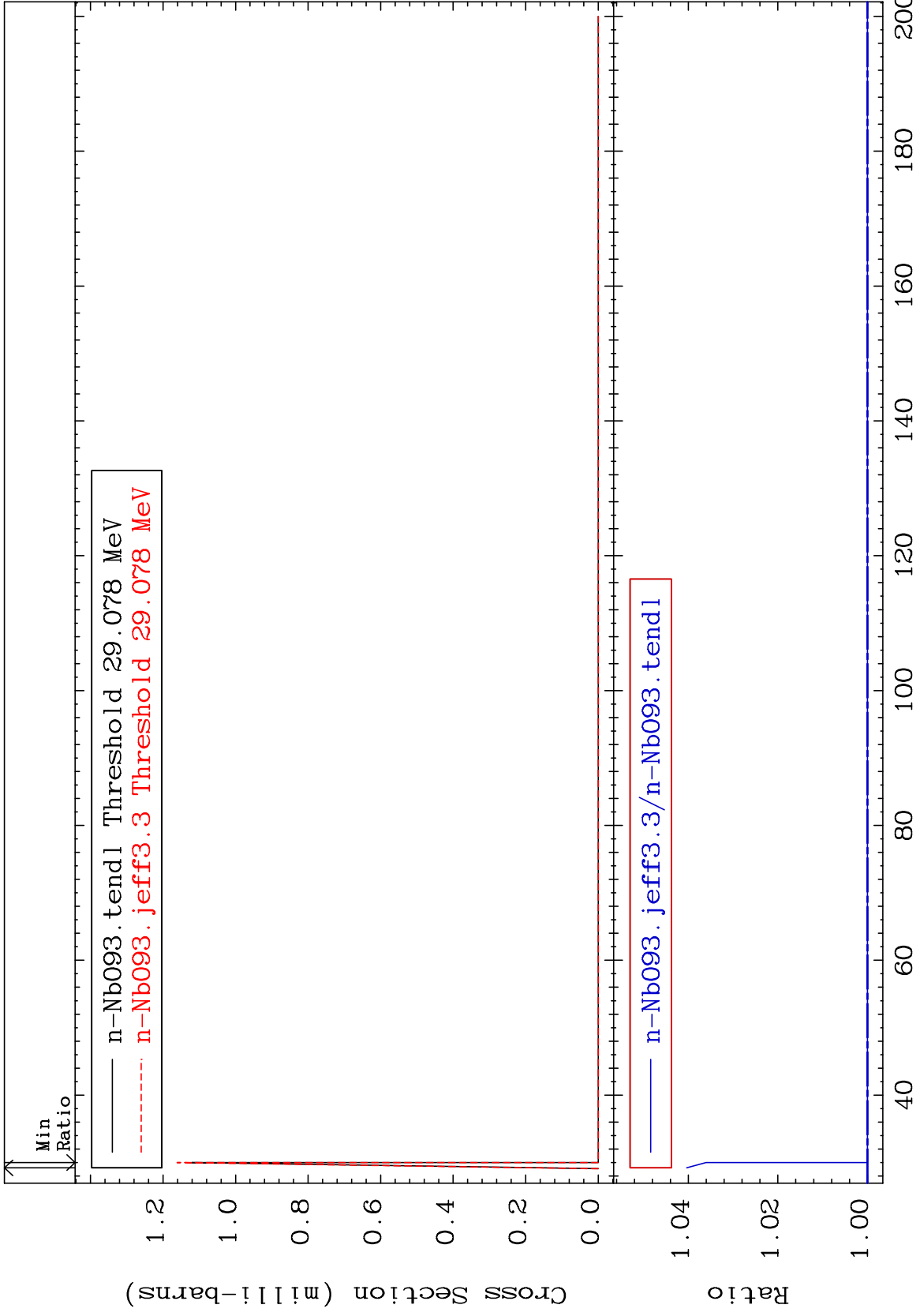
41-Nb-93

MAT 4125

(n, 4n) : 41-Nb-90g

41-Nb-93

Radionuclide Production Cross Section 0.000 To 4.035 %

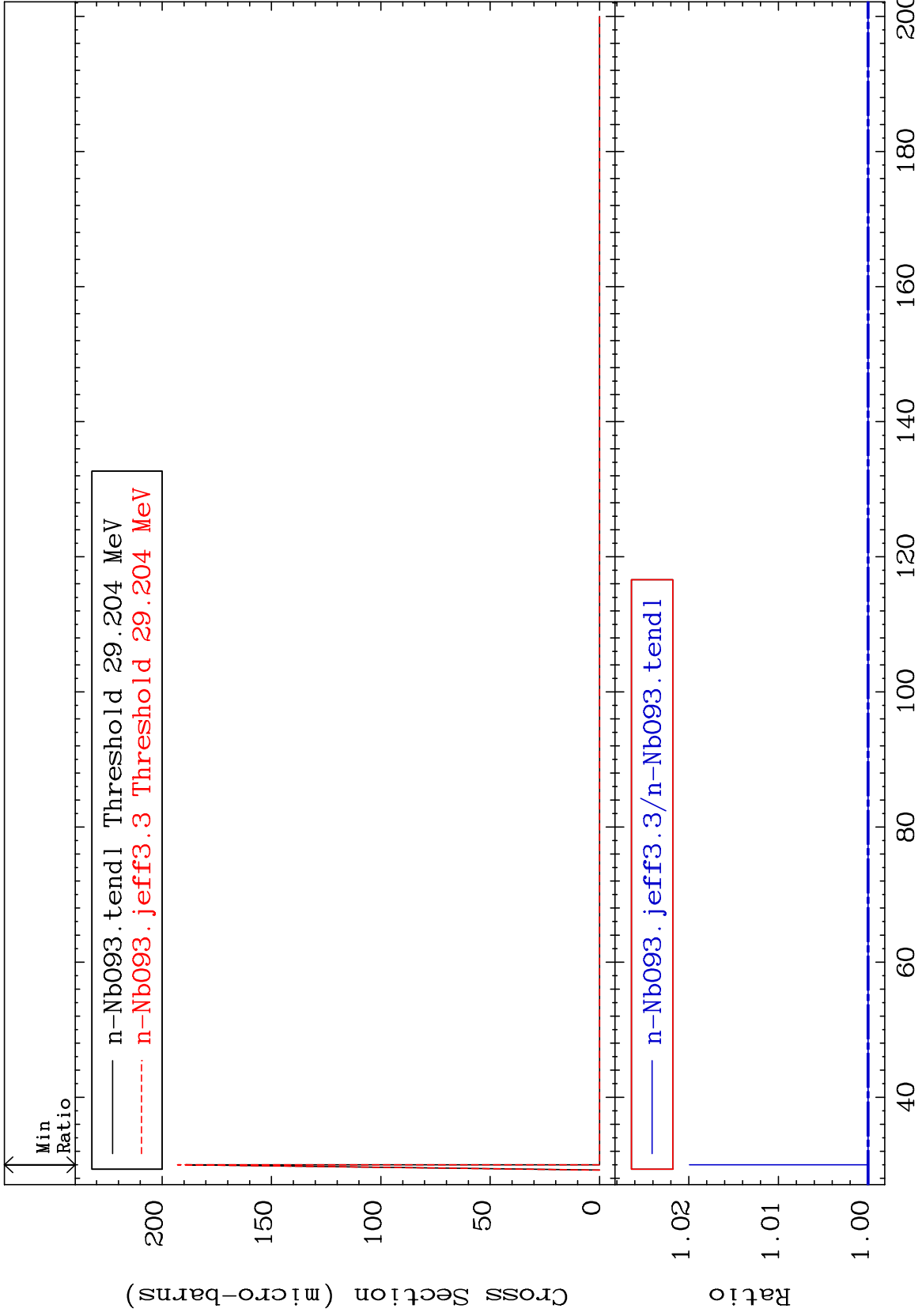


MAT 4125

(n, 4n) : 41-Nb-90m2

41-Nb-93

Radionuclide Production Cross Section 0.000 To 1.991 %

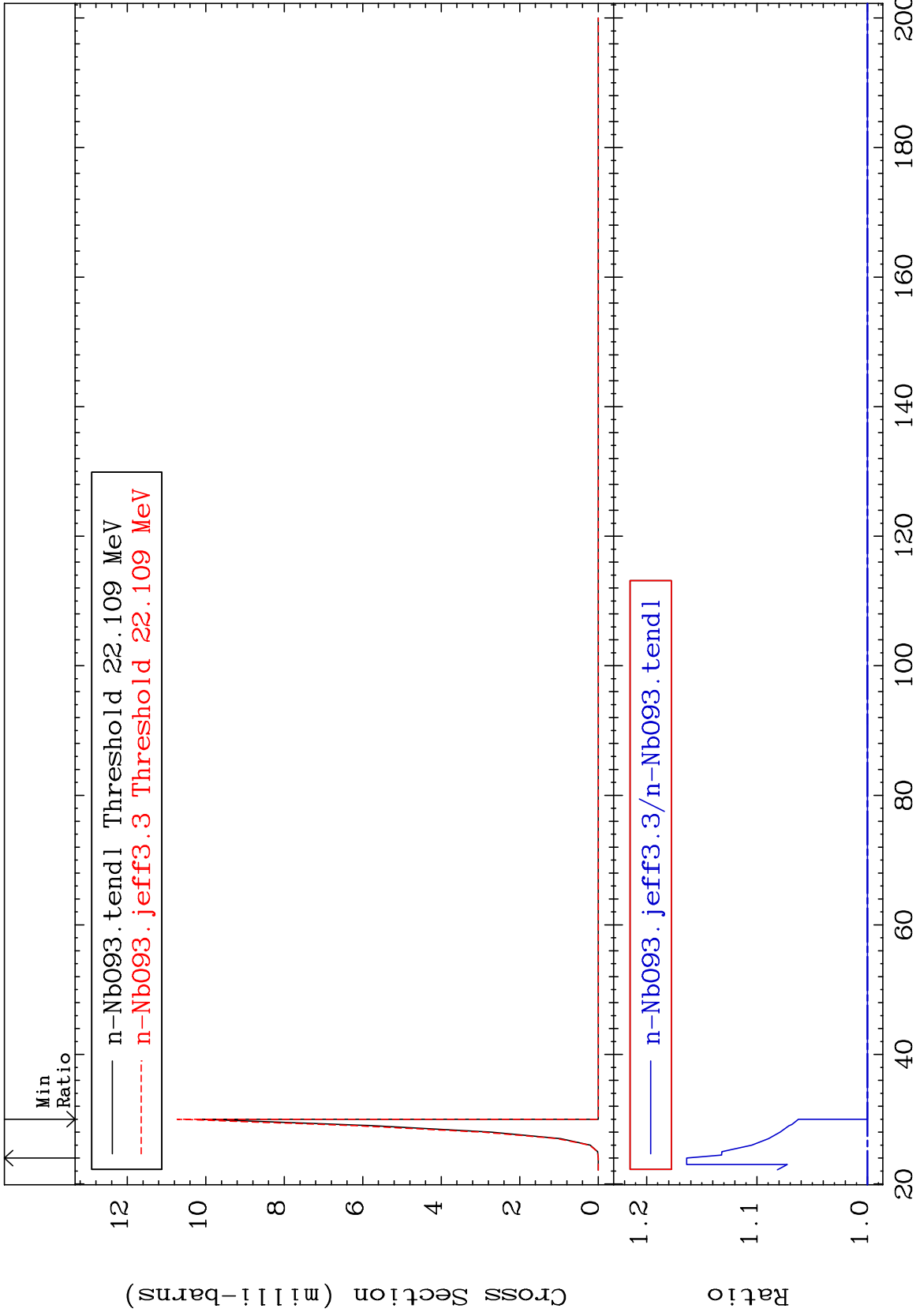


MAT 4125

(n, 3n) p:40-Zr-90g

41-Nb-93

Radionuclide Production Cross Section 0.000 To 16.37 %



98

Incident Energy (MeV)

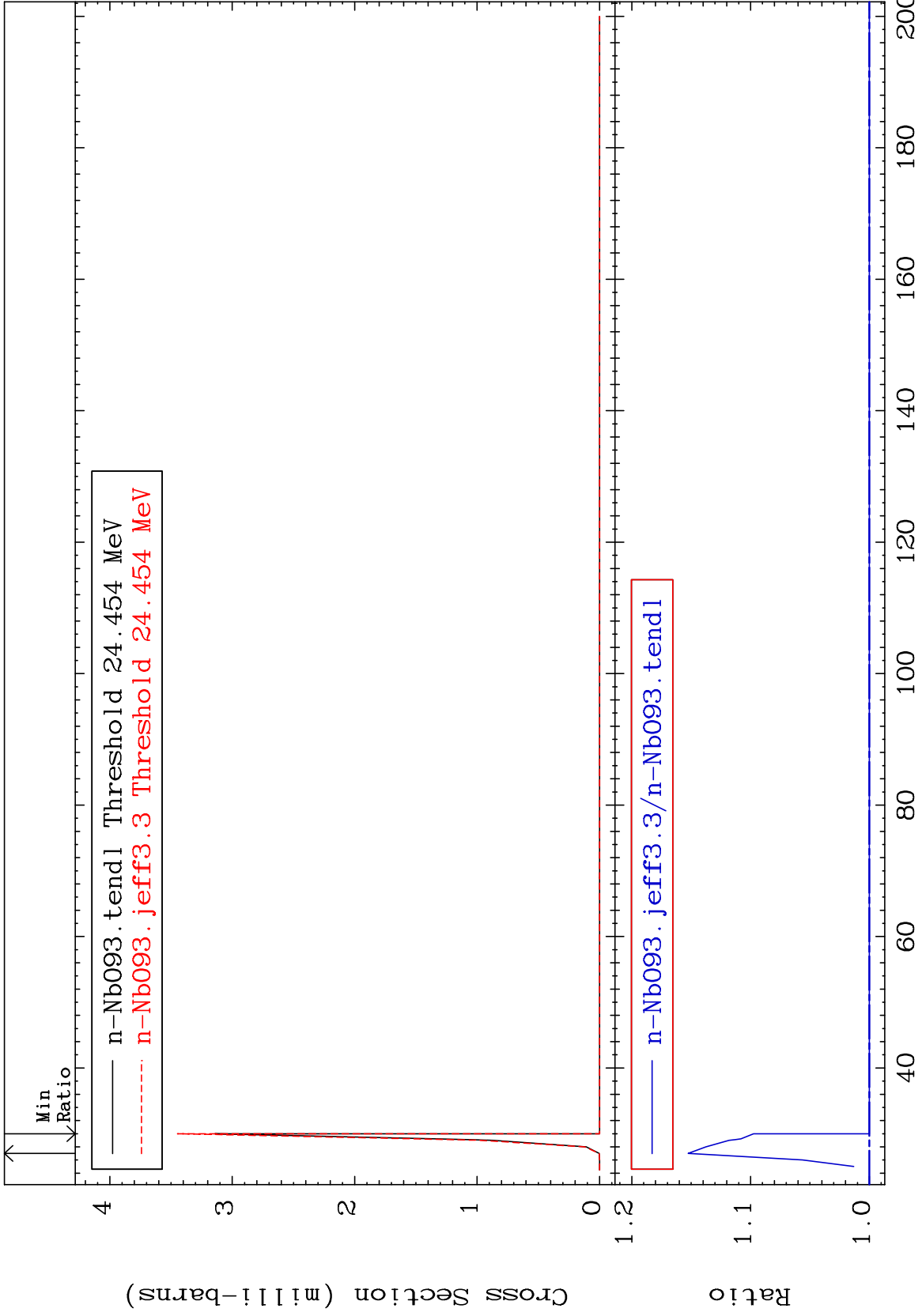
41-Nb-93

MAT 4125

(n,3n) p:40-Zr-90m3

41-Nb-93

Radionuclide Production Cross Section 0.000 To 15.25 %



99

Incident Energy (MeV)

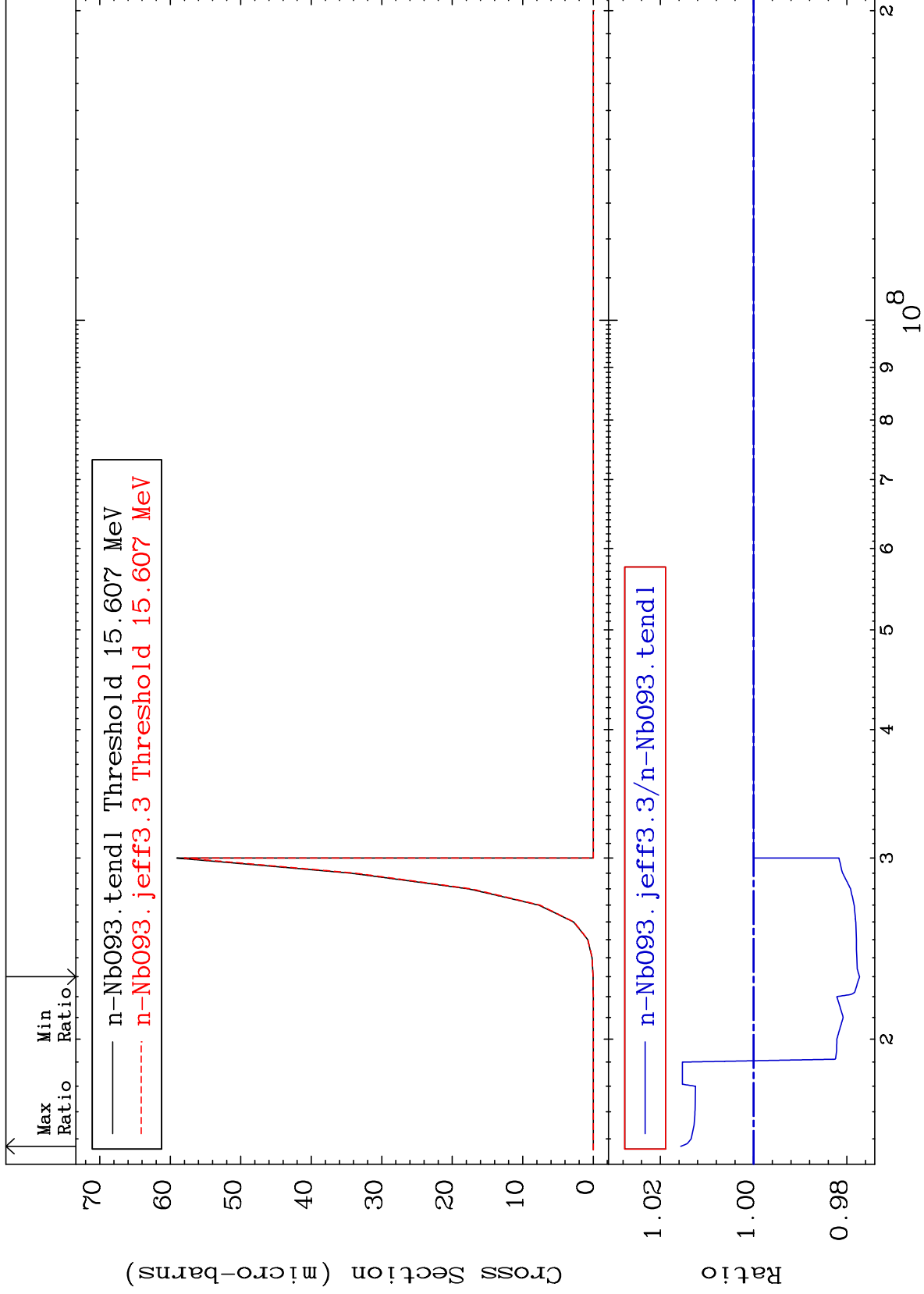
41-Nb-93

MAT 4125

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

41-Nb-93

Radionuclide Production Cross Section -2.270 To 1.562 %



100

Incident Energy (eV)

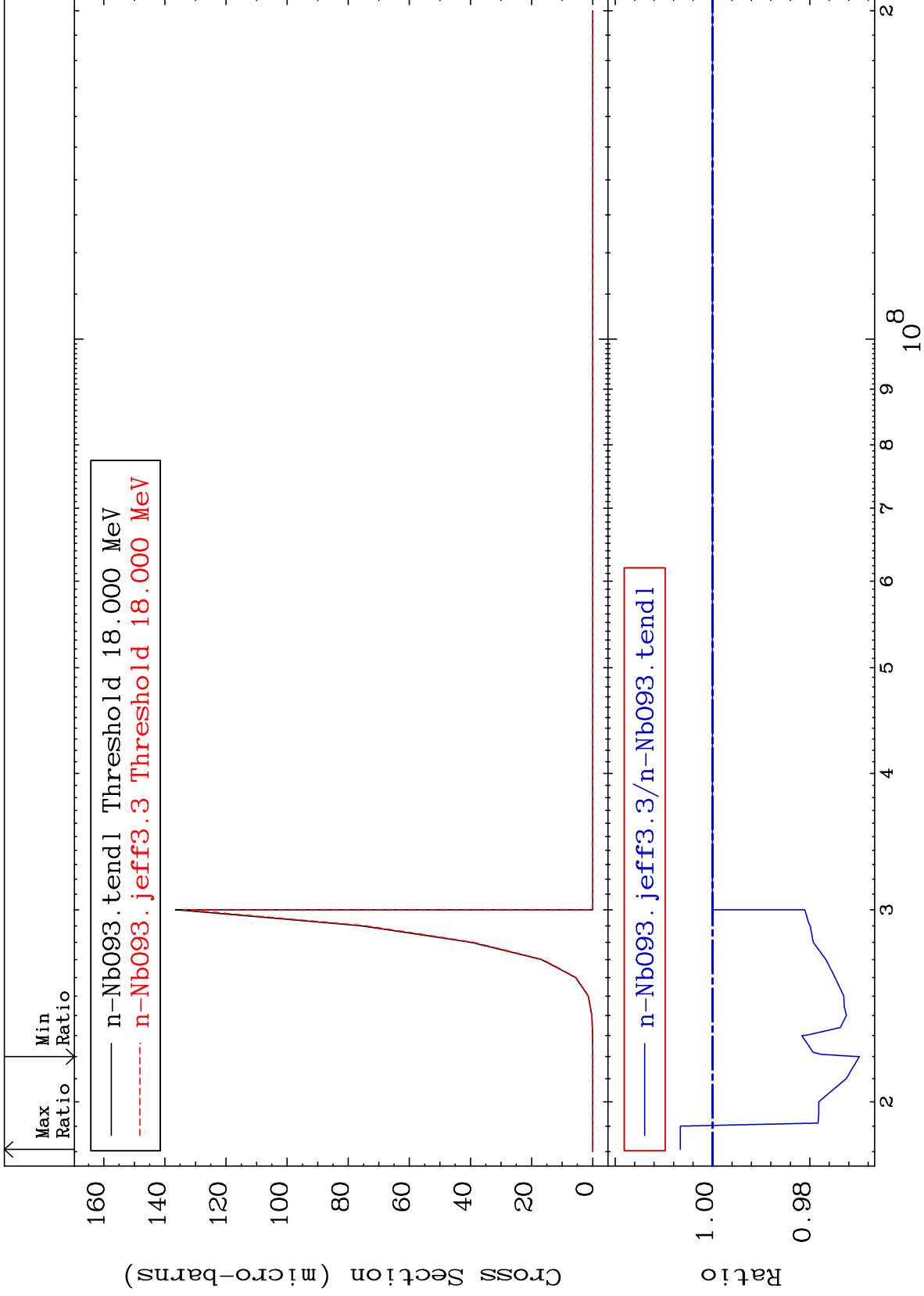
41-Nb-93

MAT 4125

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

41-Nb-93

Radionuclide Production Cross Section -3.020 To 0.661 %



101

Incident Energy (eV)

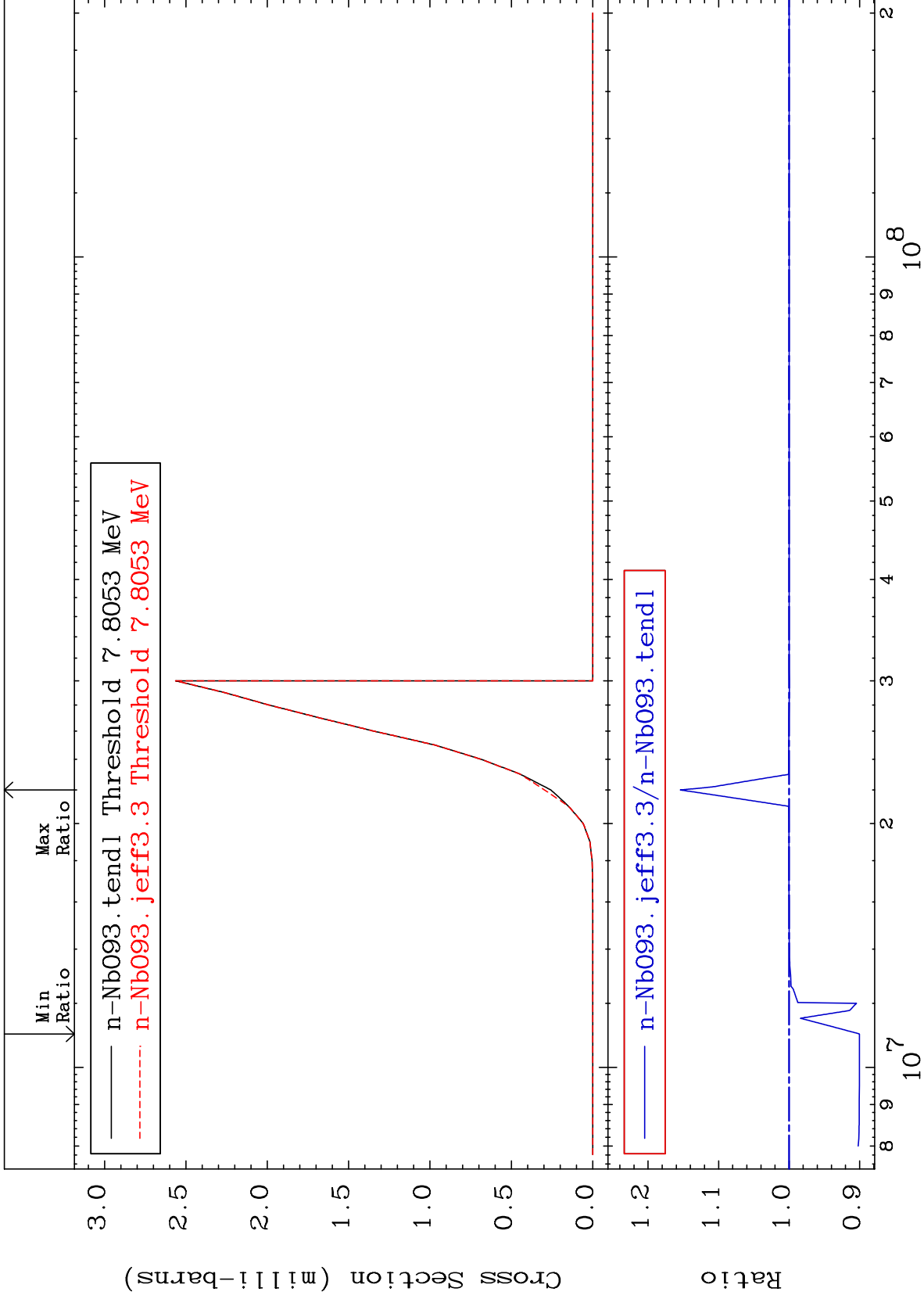
41-Nb-93

MAT 4125

(n,He-3):39-Y -91g

41-Nb-93

Radionuclide Production Cross Section -9.971 To 15.42 %

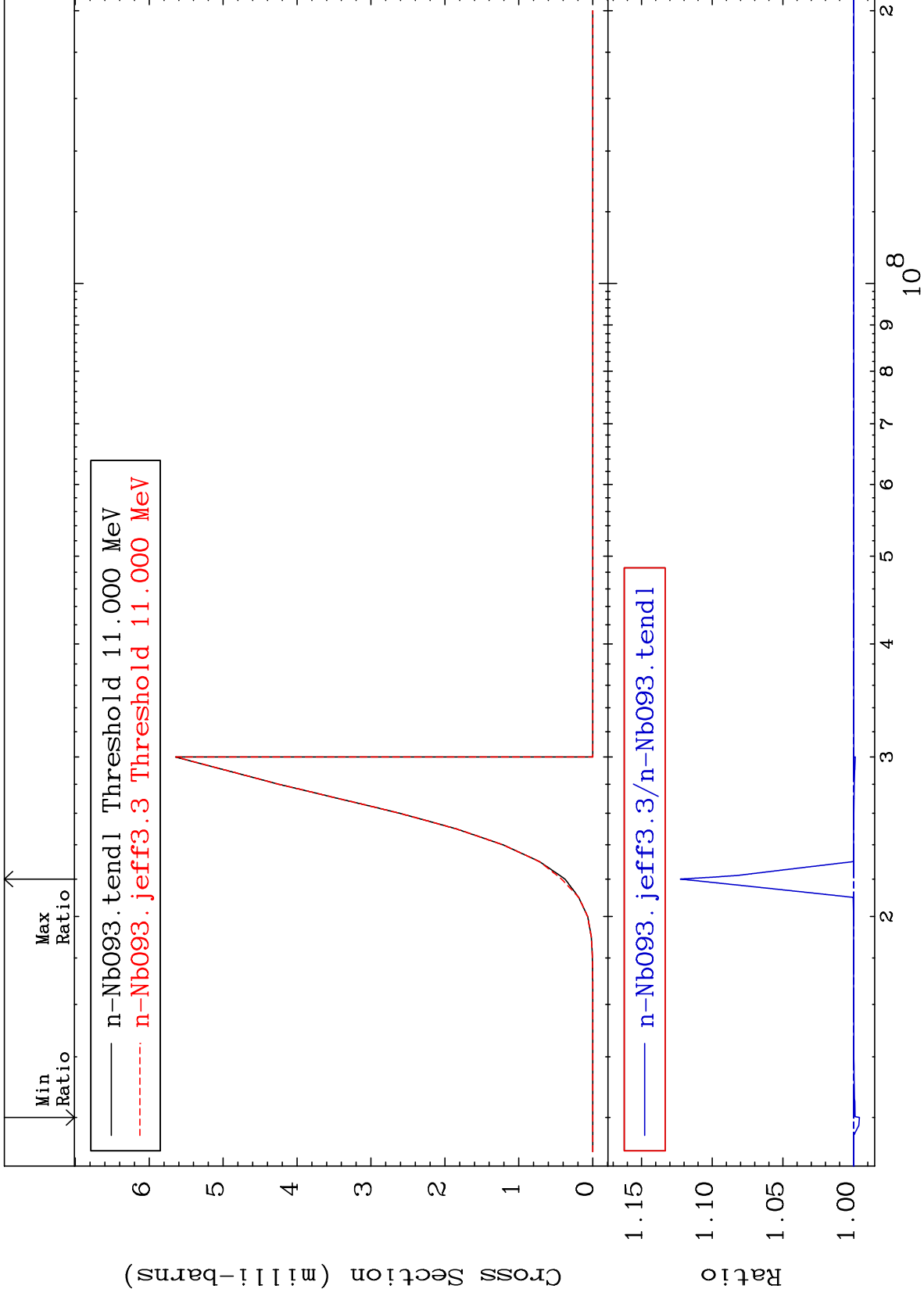


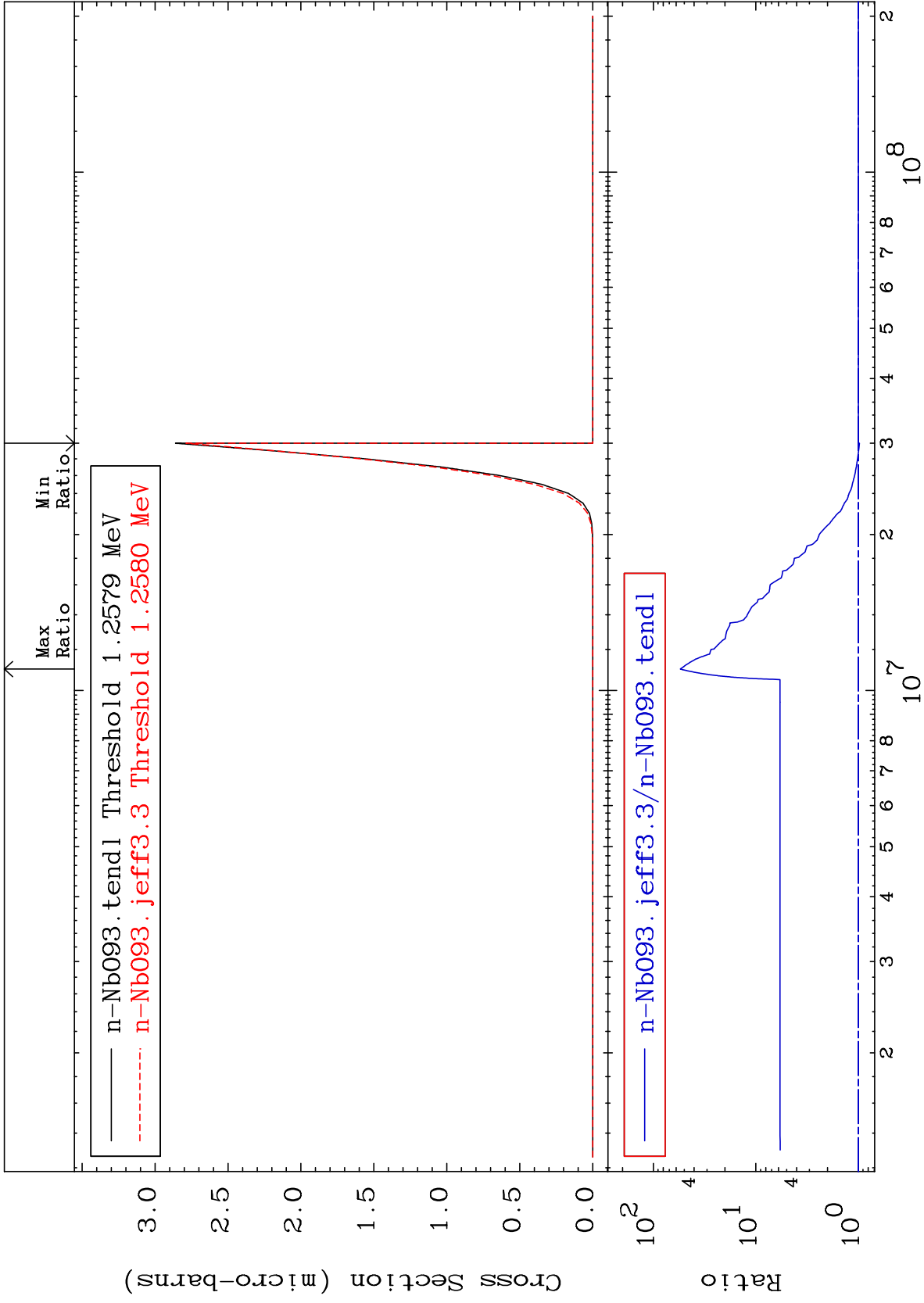
102

Incident Energy (eV)

41-Nb-93

Radionuclide Production Cross Section -0.404 To 12.26 %



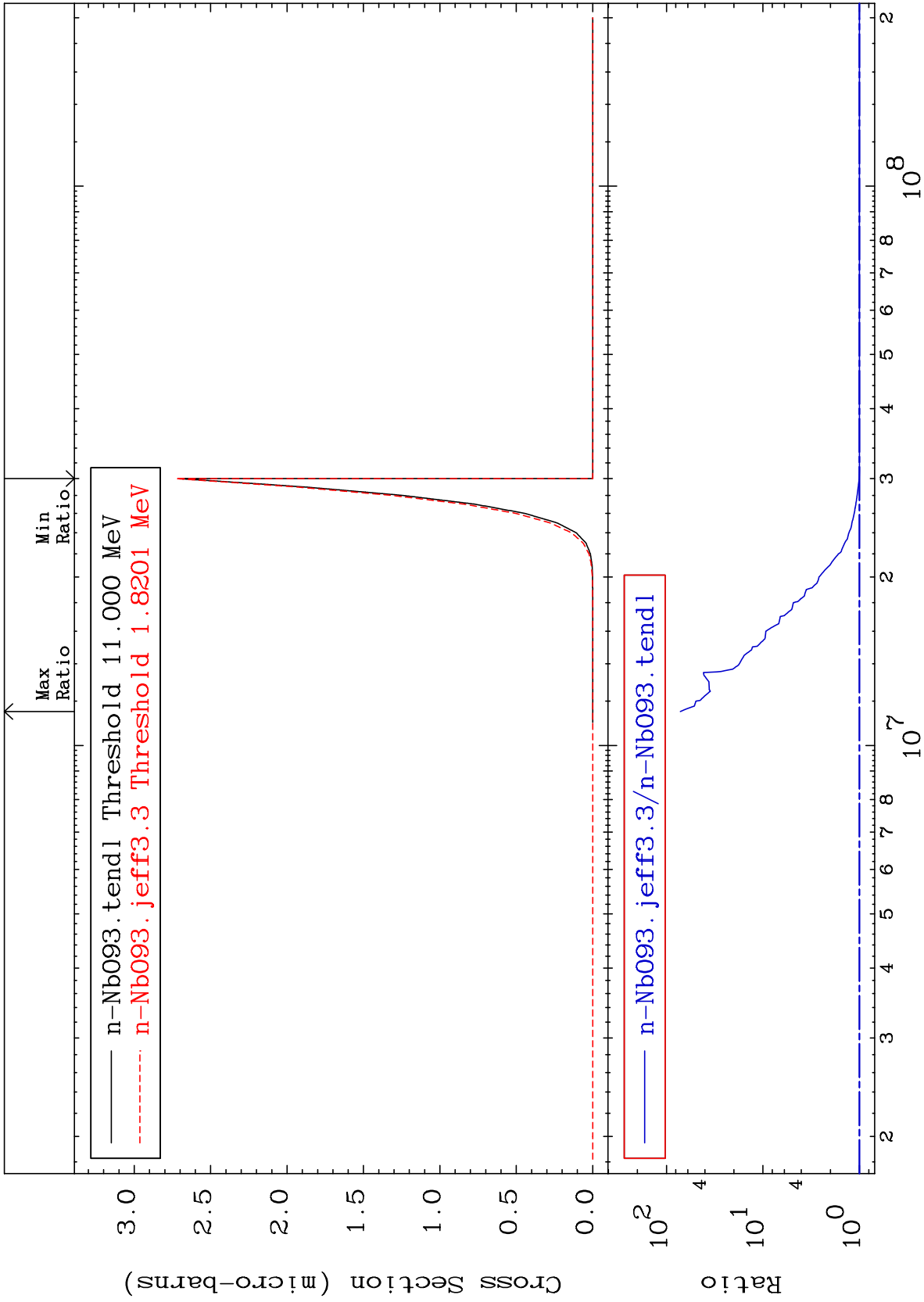


MAT 4125

(n,2α):37-Rb-86m2

41-Nb-93

Radionuclide Production Cross Section 0.000 To 7080. %

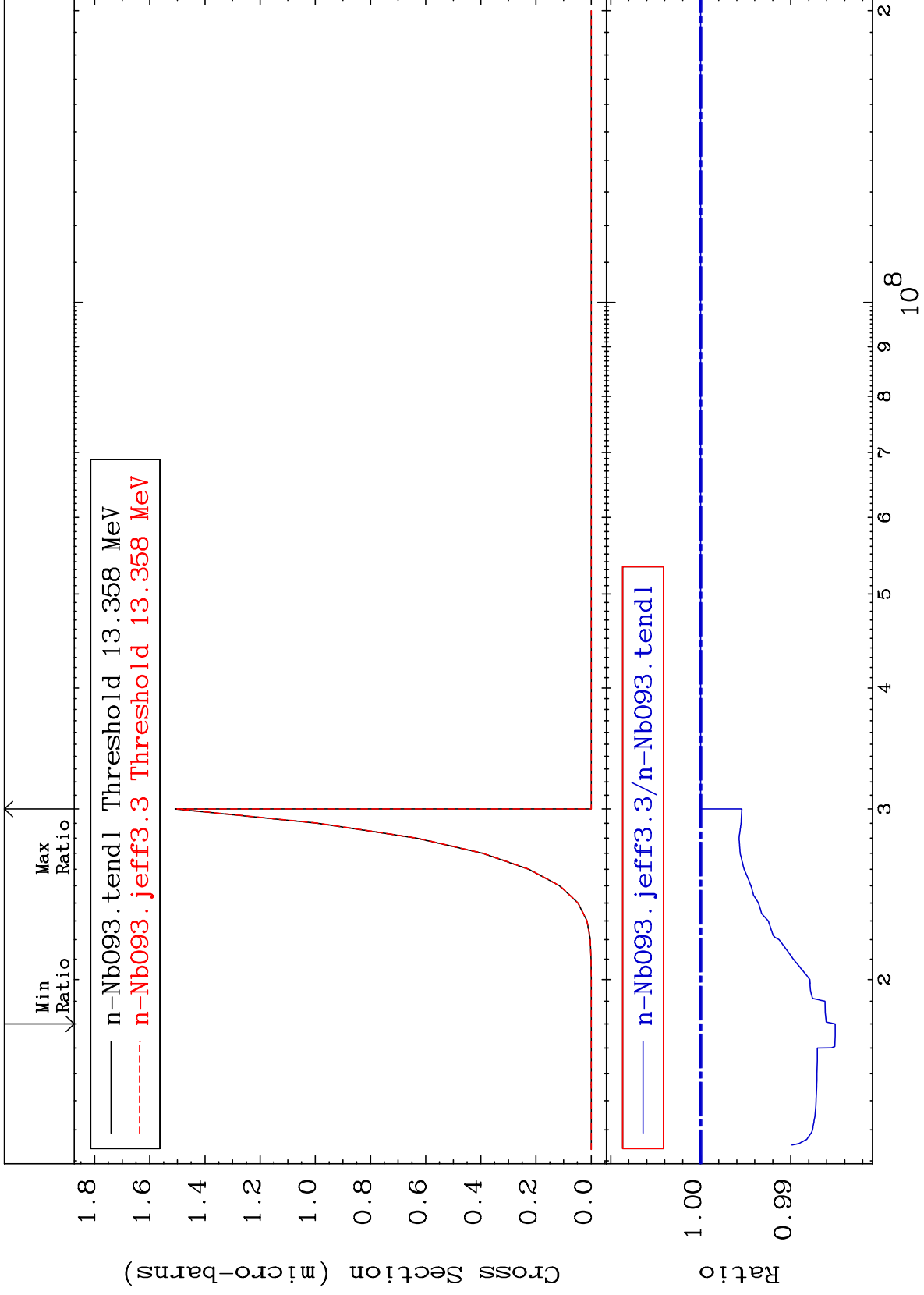


105

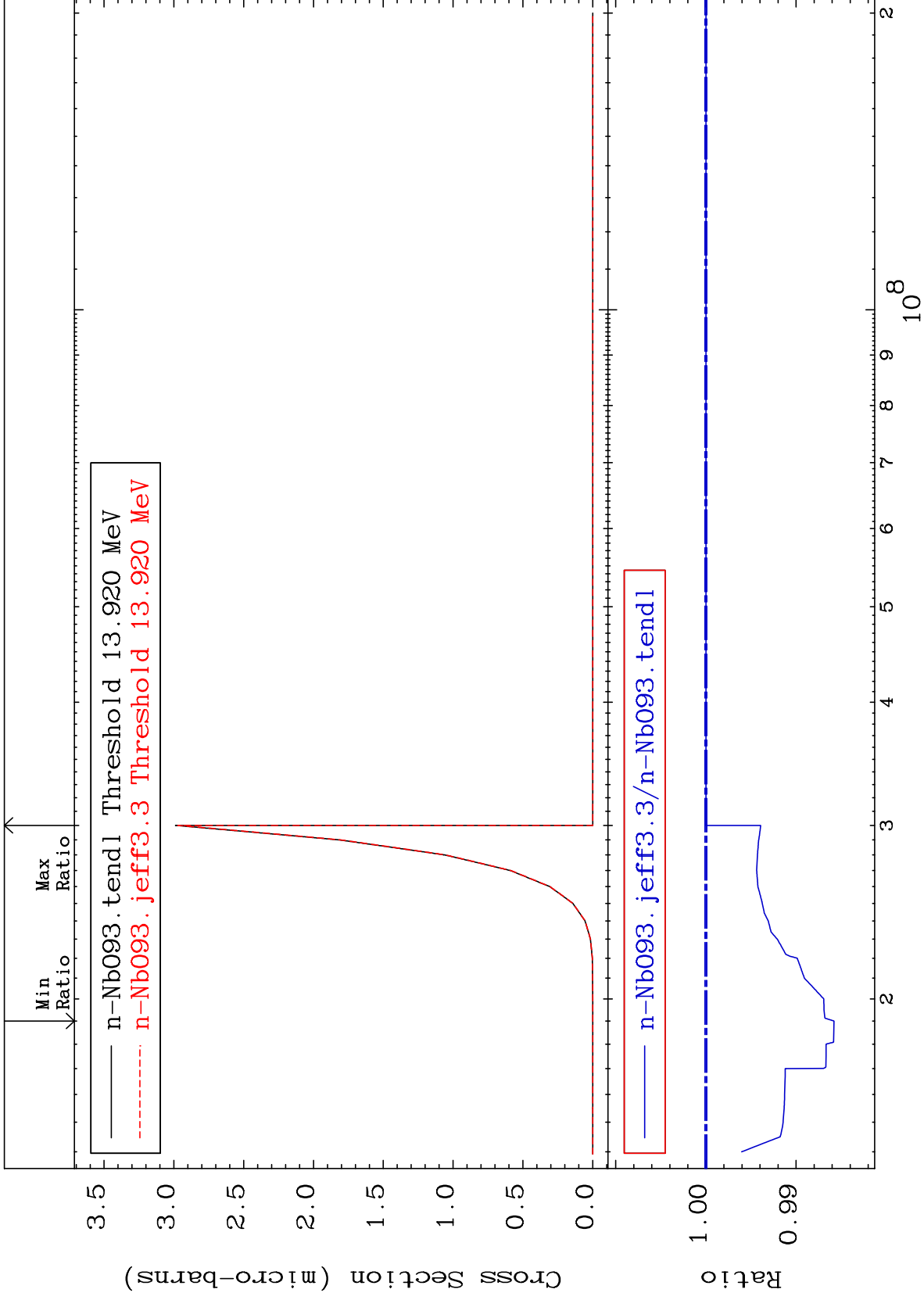
Incident Energy (eV)

41-Nb-93

Radionuclide Production Cross Section -1.494 To 0.000 %



Radionuclide Production Cross Section -1.420 To 0.000 %

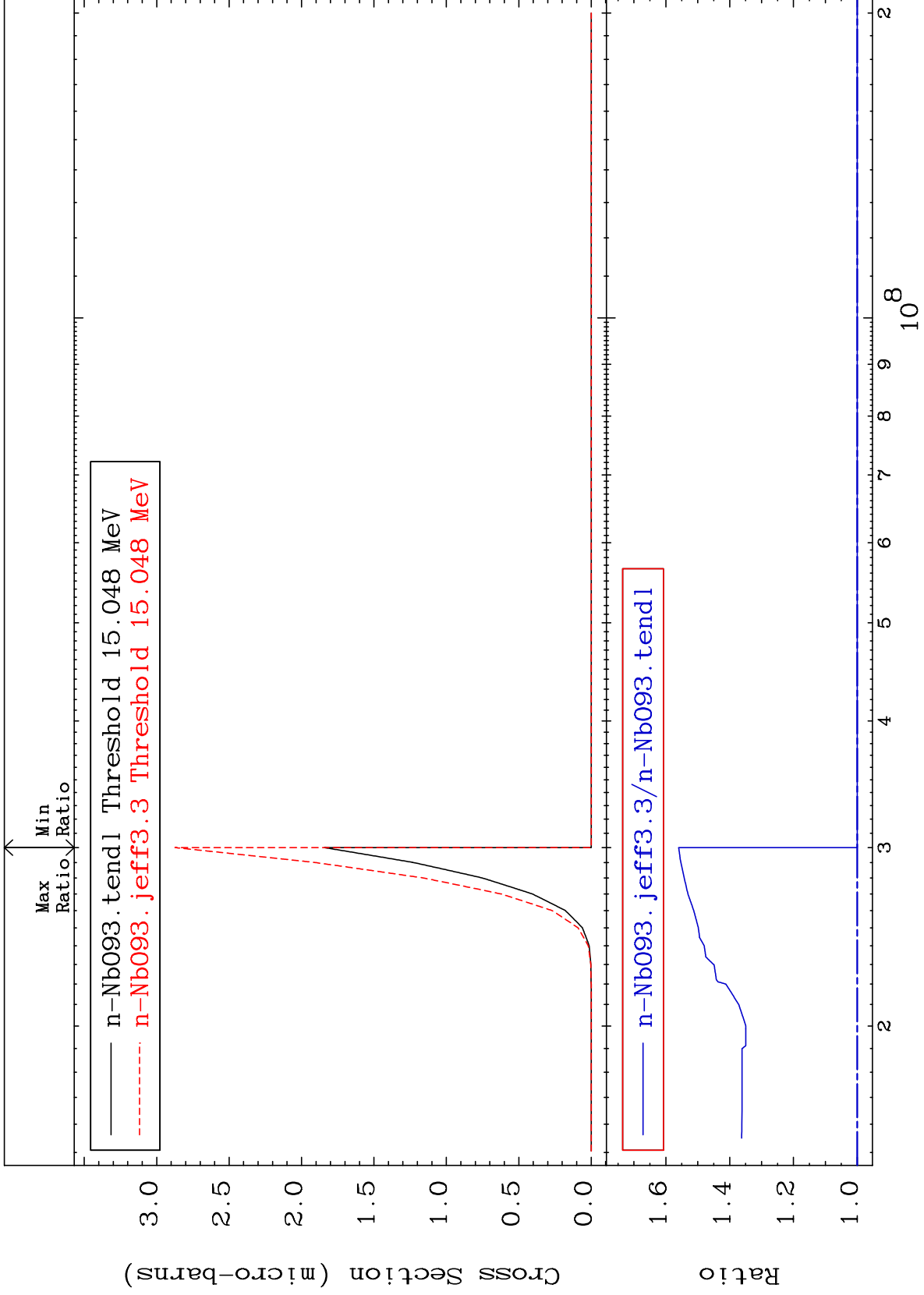


MAT 4125

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

41-Nb-93

Radionuclide Production Cross Section 0.000 To 55.99 %



108

Incident Energy (eV)

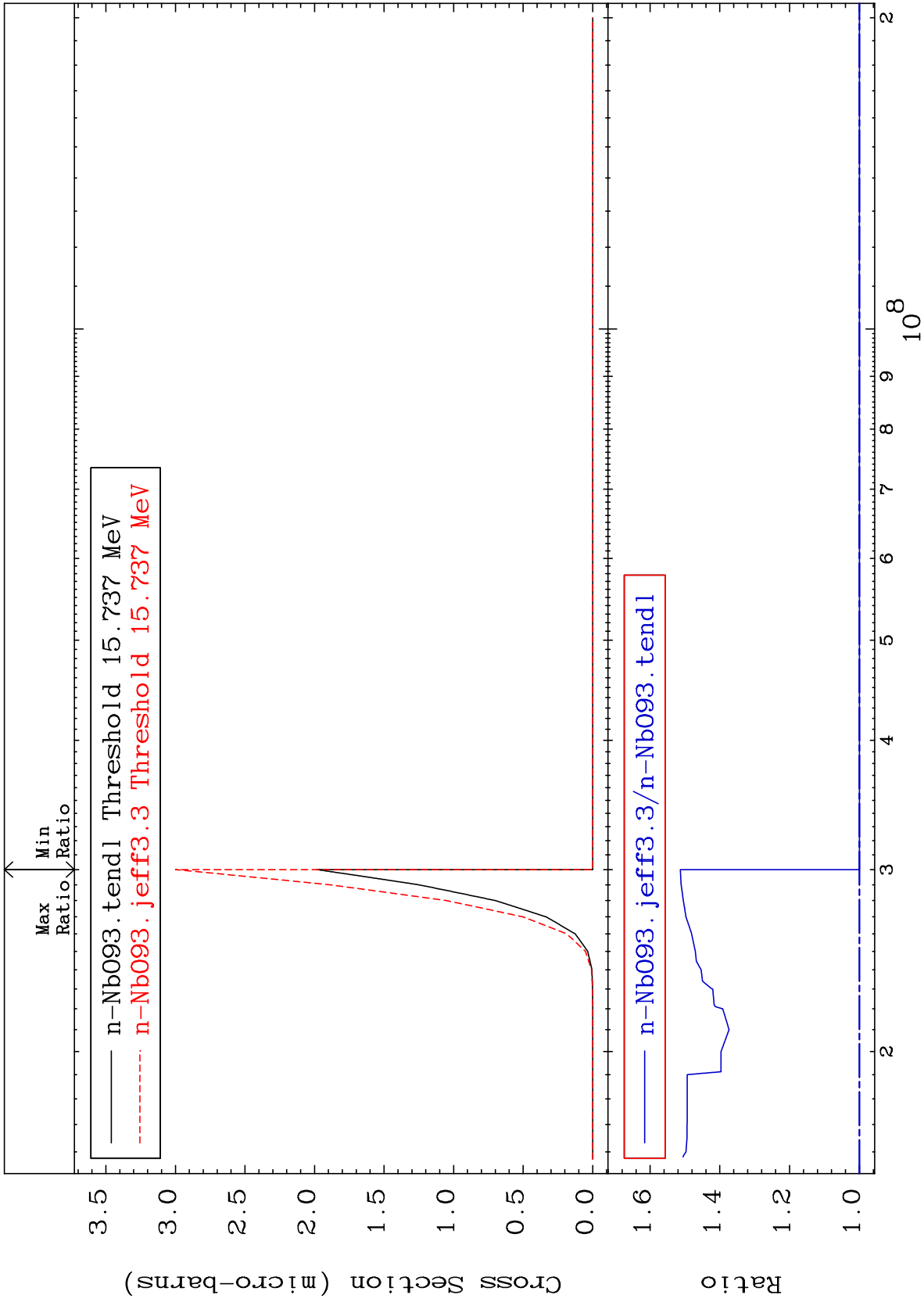
41-Nb-93

MAT 4125

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

41-Nb-93

Radionuclide Production Cross Section 0.000 To 51.31 %



109

Incident Energy (eV)

41-Nb-93