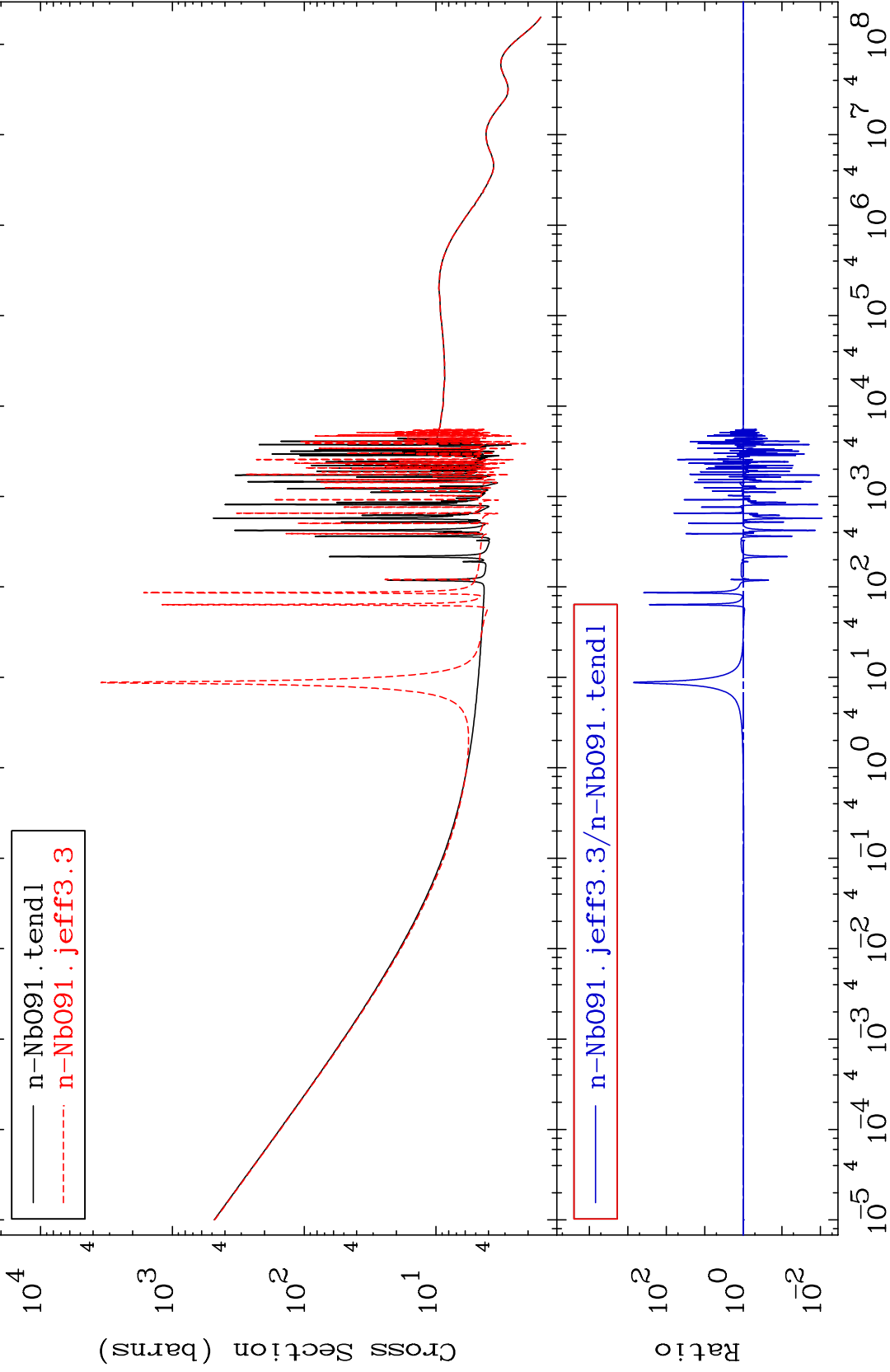


MAT 4119

Total
Cross Section

41-Nb-91
-99.09 To 9999. %

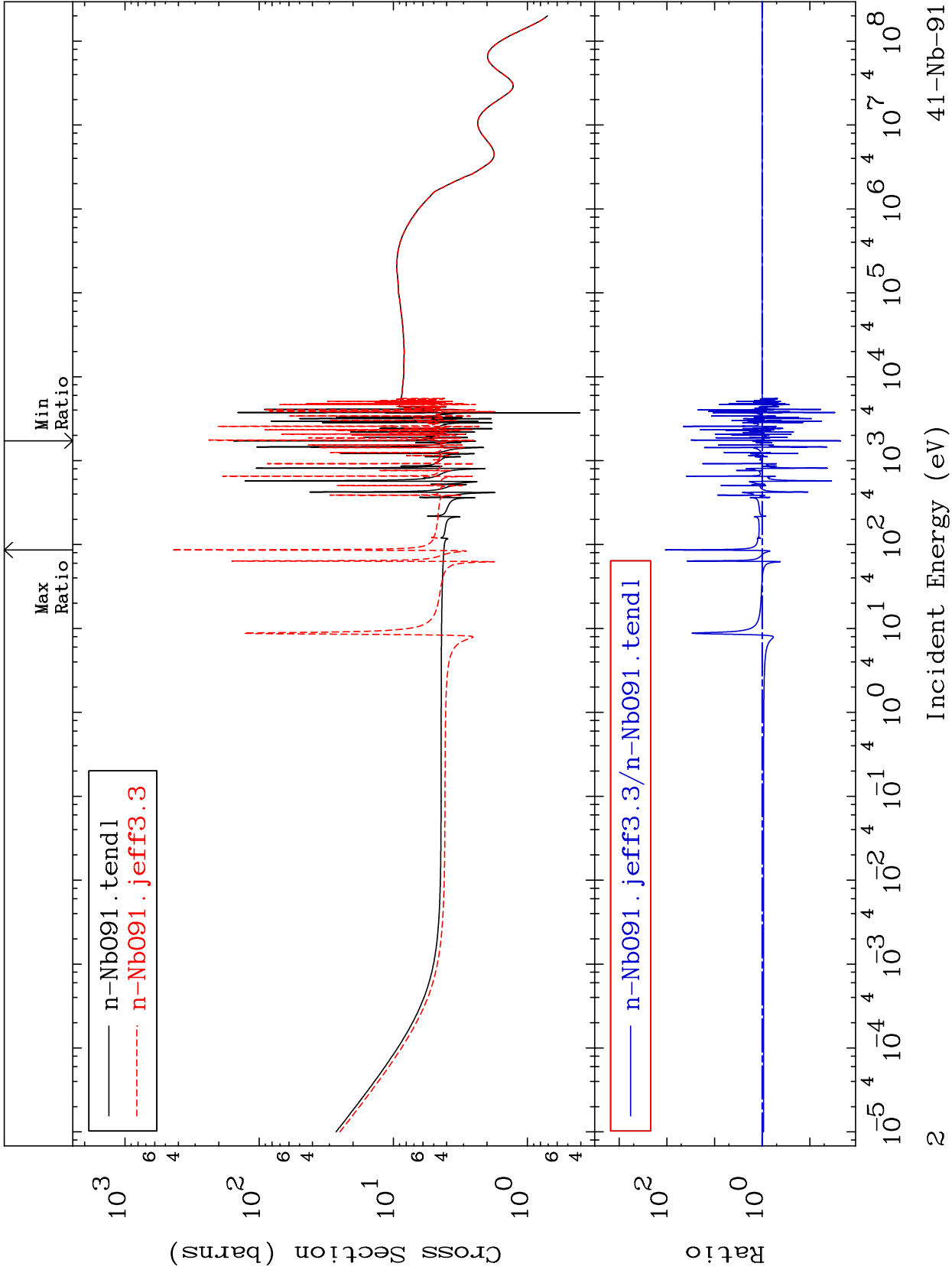


Incident Energy (eV)

41-Nb-91

MAT 4119

Elastic Cross Section
41-Nb-91
-97.74 To 9999. %



41-Nb-91

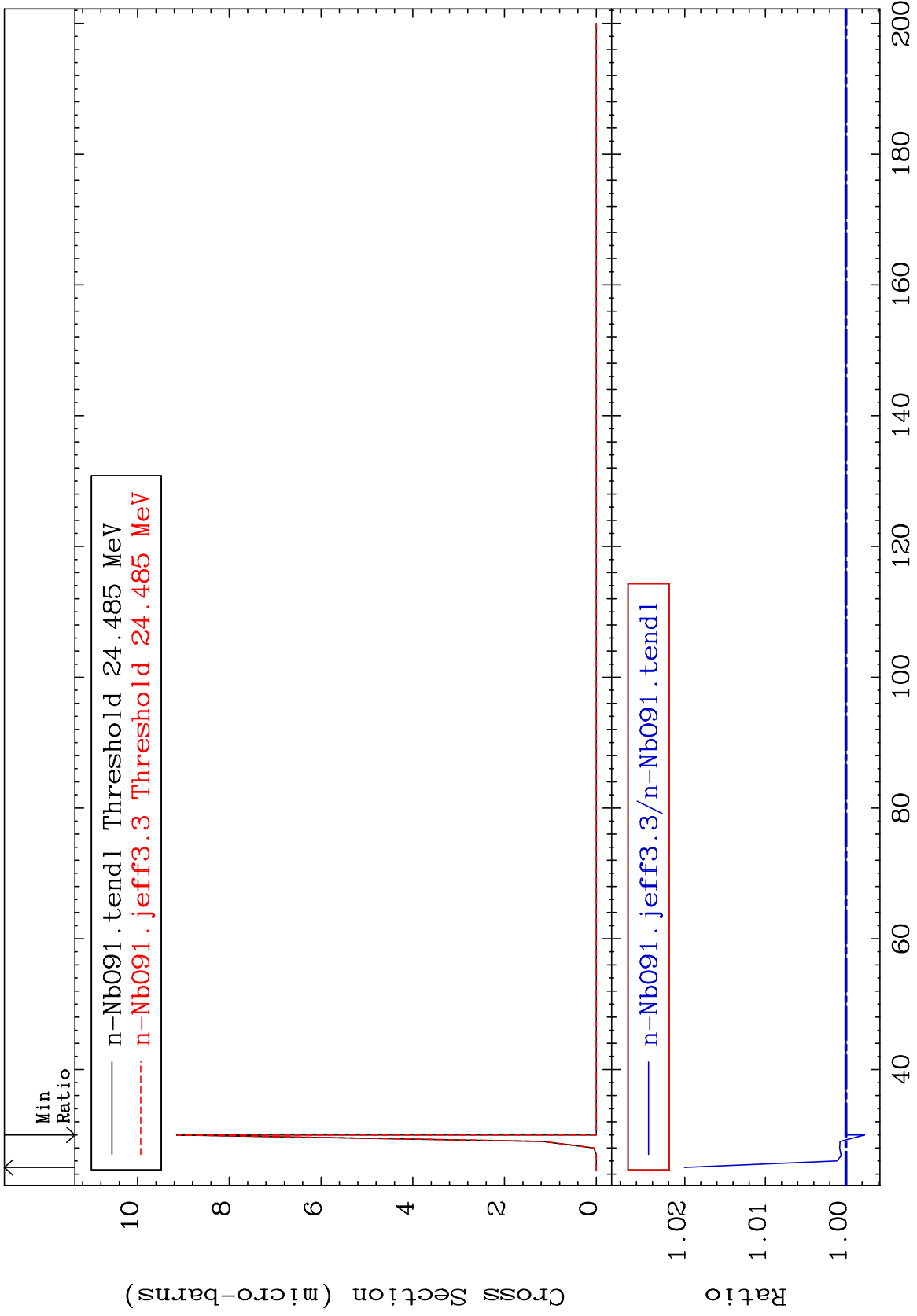
Incident Energy (eV)

2

MAT 4119

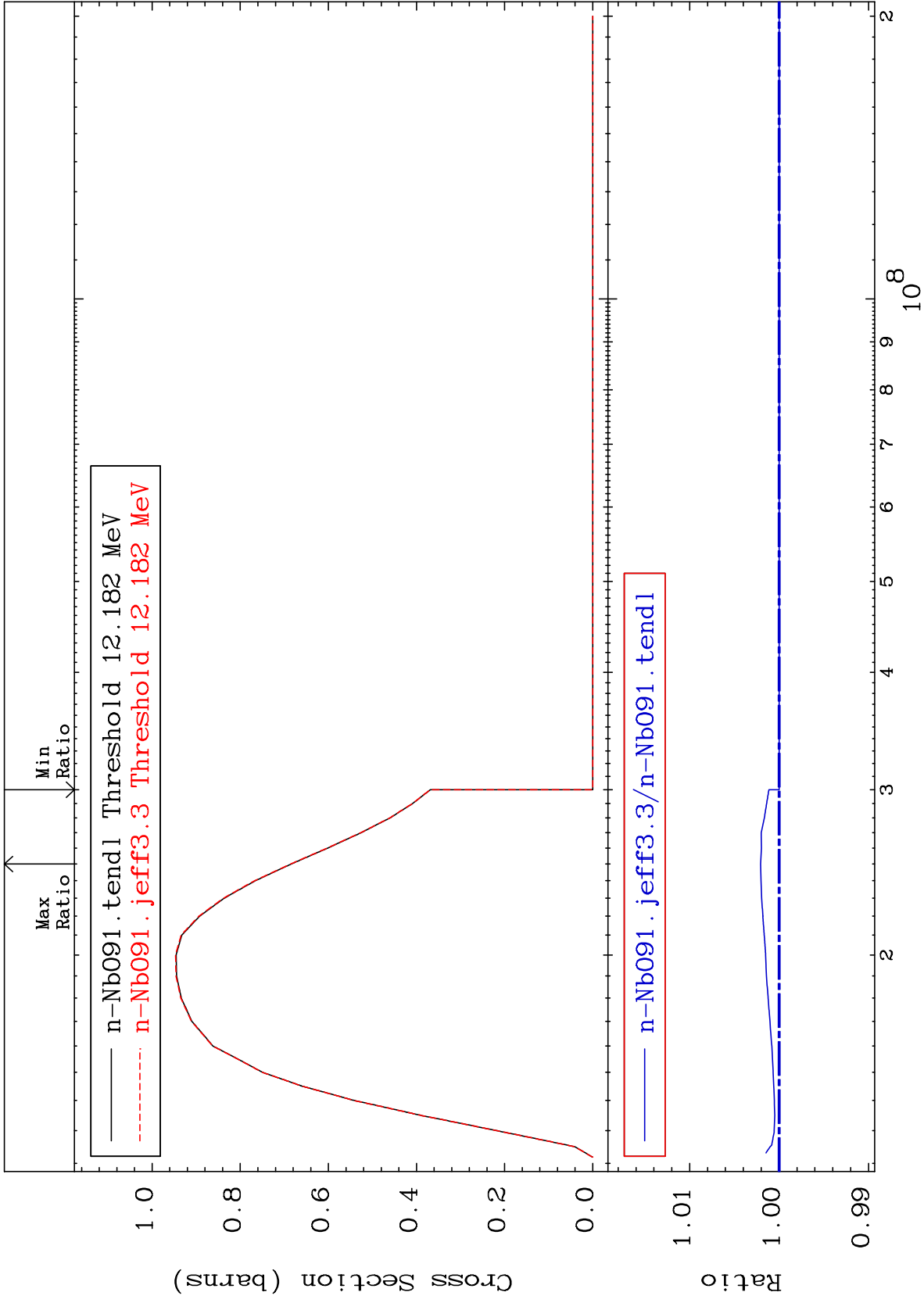
(n,2n) d
Cross Section

41-Nb-91
-0.231 To 2.004 %



MAT 4119

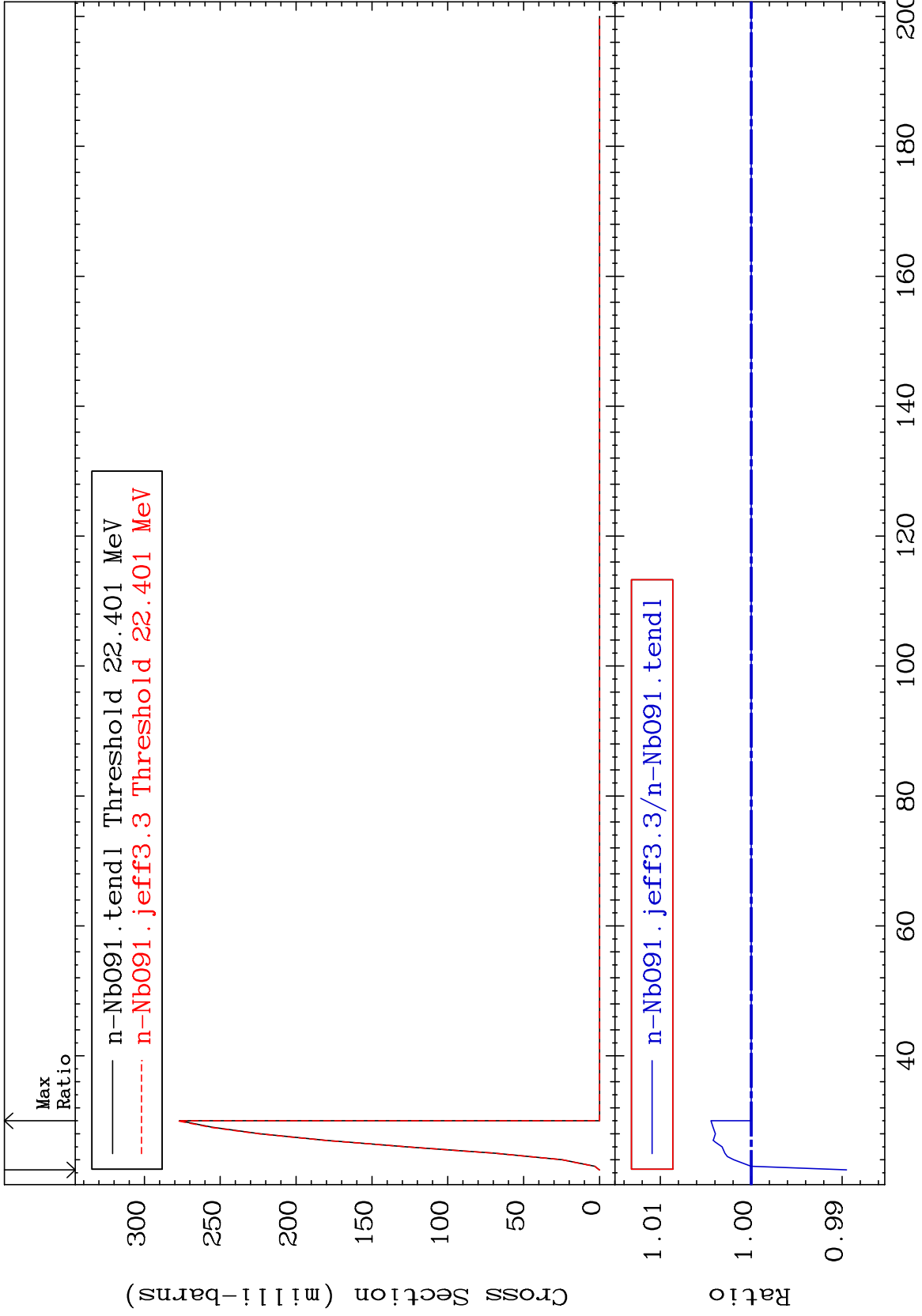
(n,2n) Cross Section
41-Nb-91
0.000 To 0.206 %



MAT 4119

(n,3n)
Cross Section

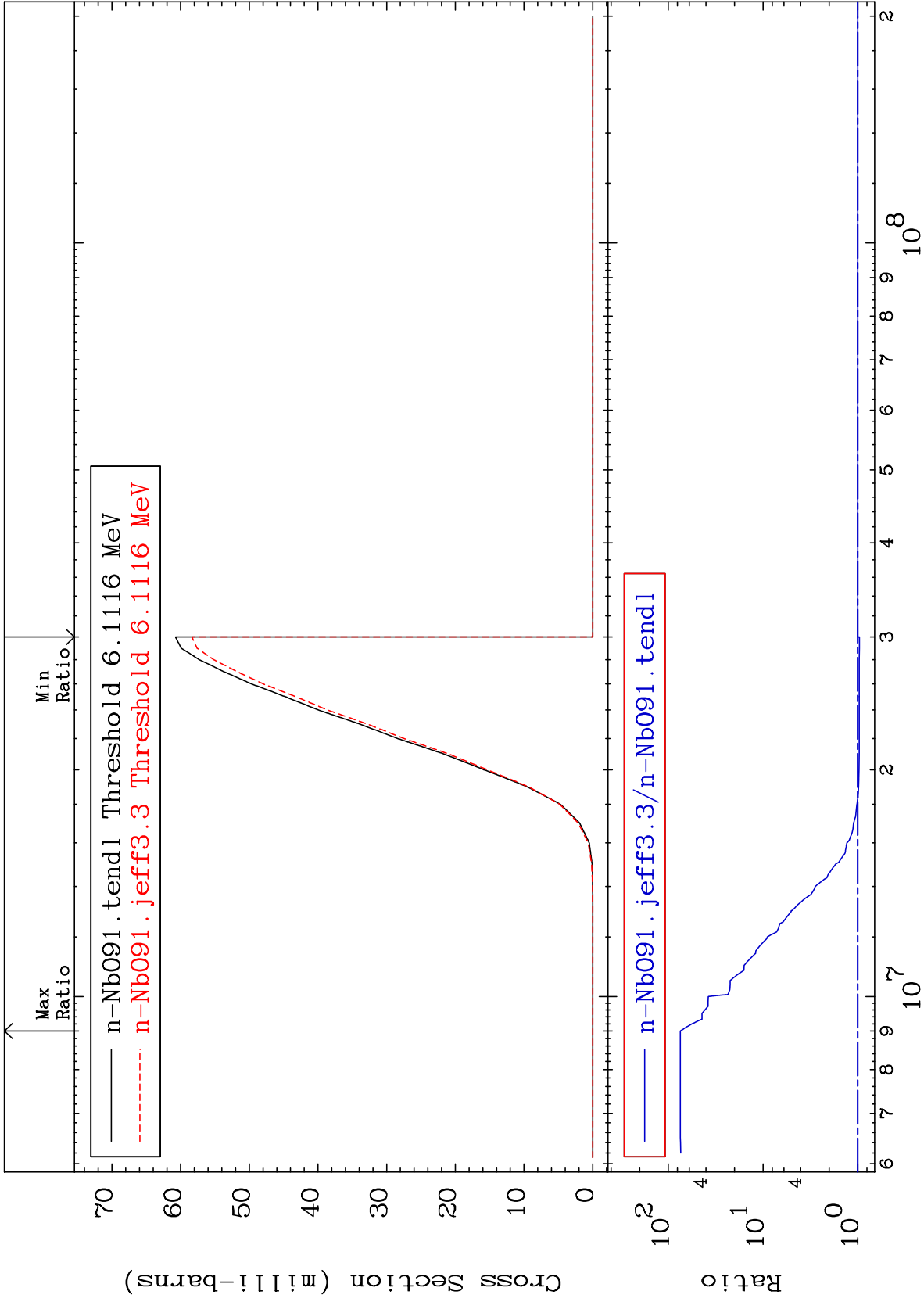
41-Nb-91
-1.050 To 0.443 %



MAT 4119

(n,n') α
Cross Section

41-Nb-91
-3.942 To 7350. %



6

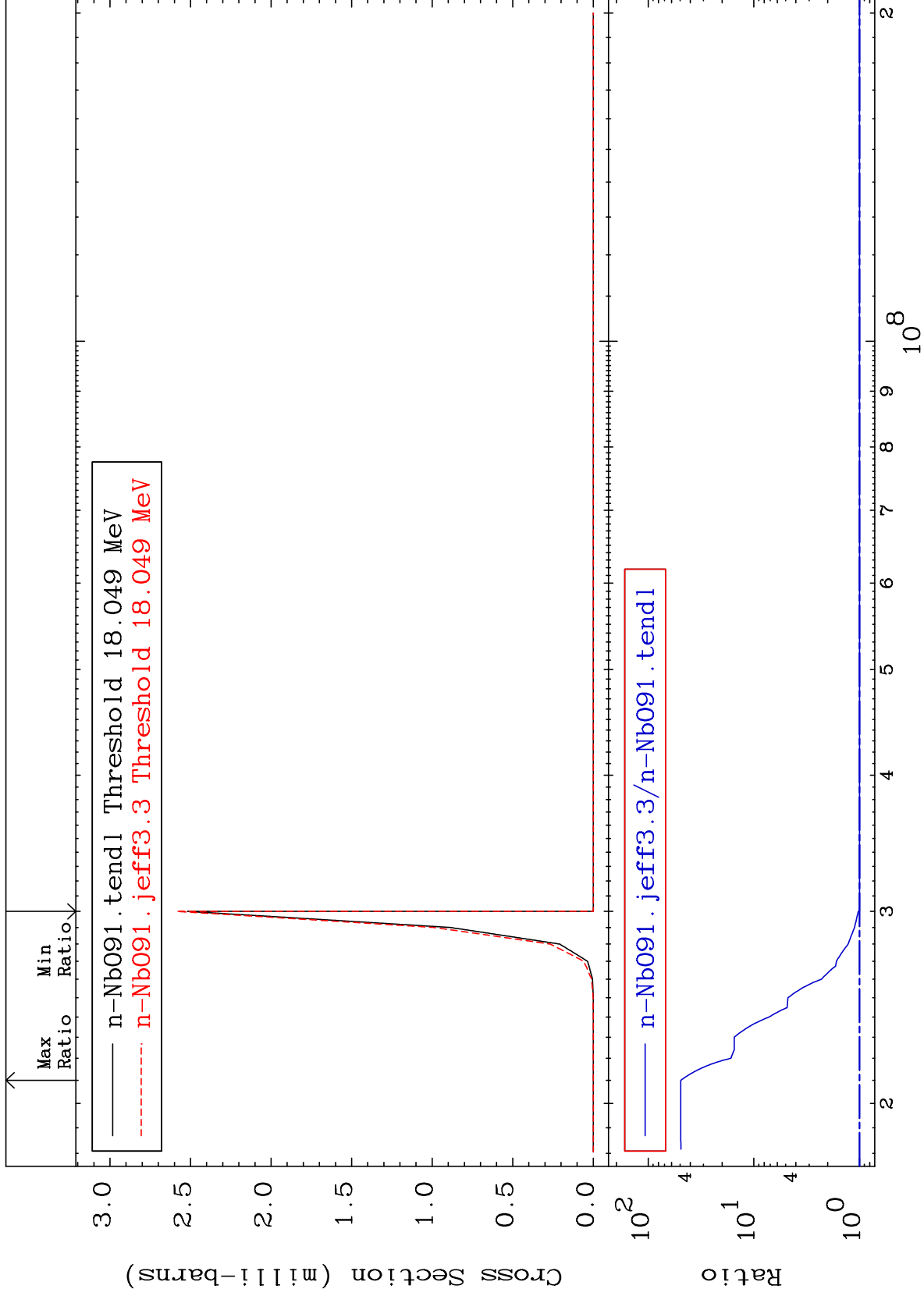
Incident Energy (eV)

41-Nb-91

MAT 4119

(n,2n) α
Cross Section

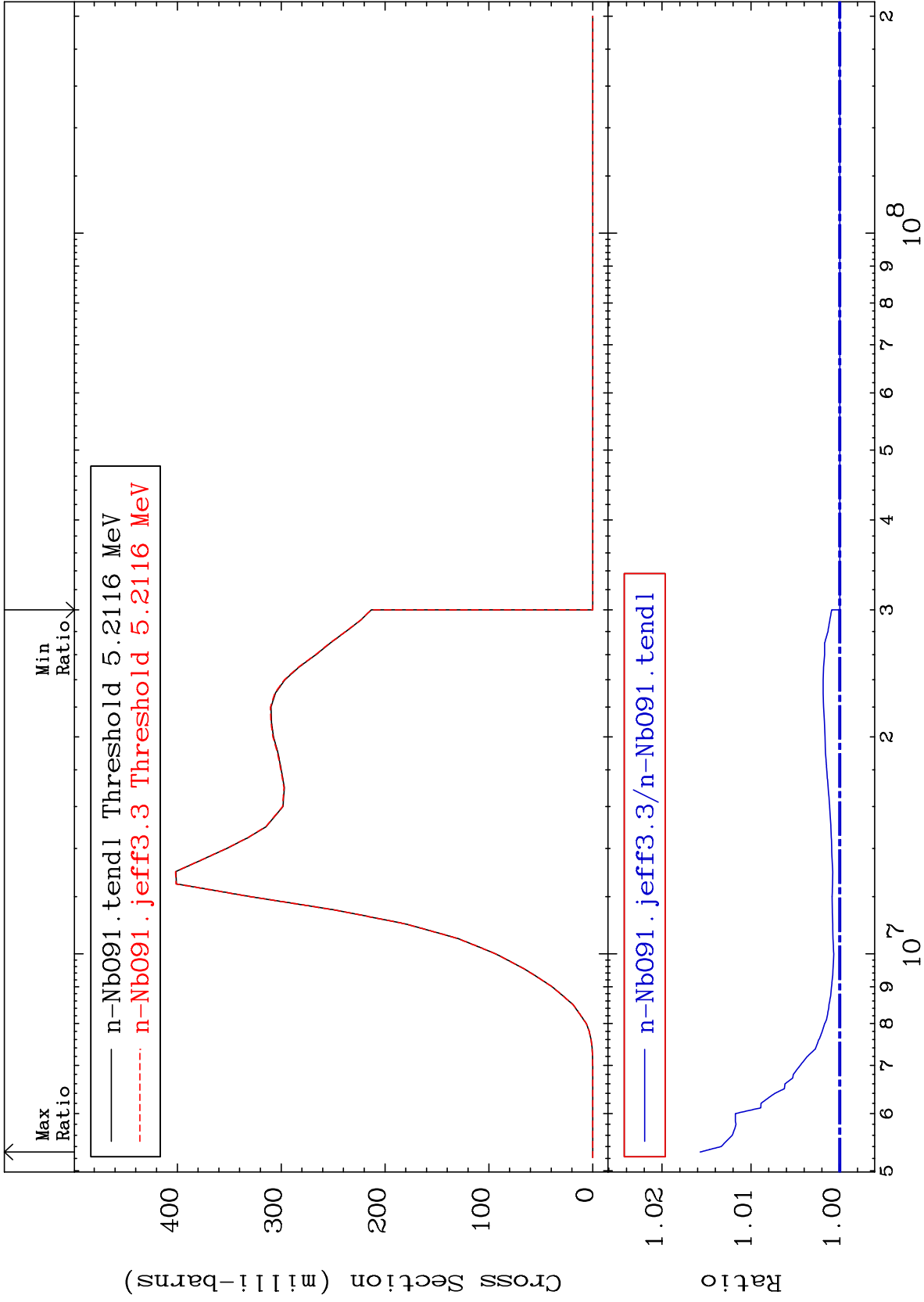
41-Nb-91
0.000 To 4818. %



MAT 4119

(n, n') p
Cross Section

41-Nb-91
0.000 To 1.572 %



8

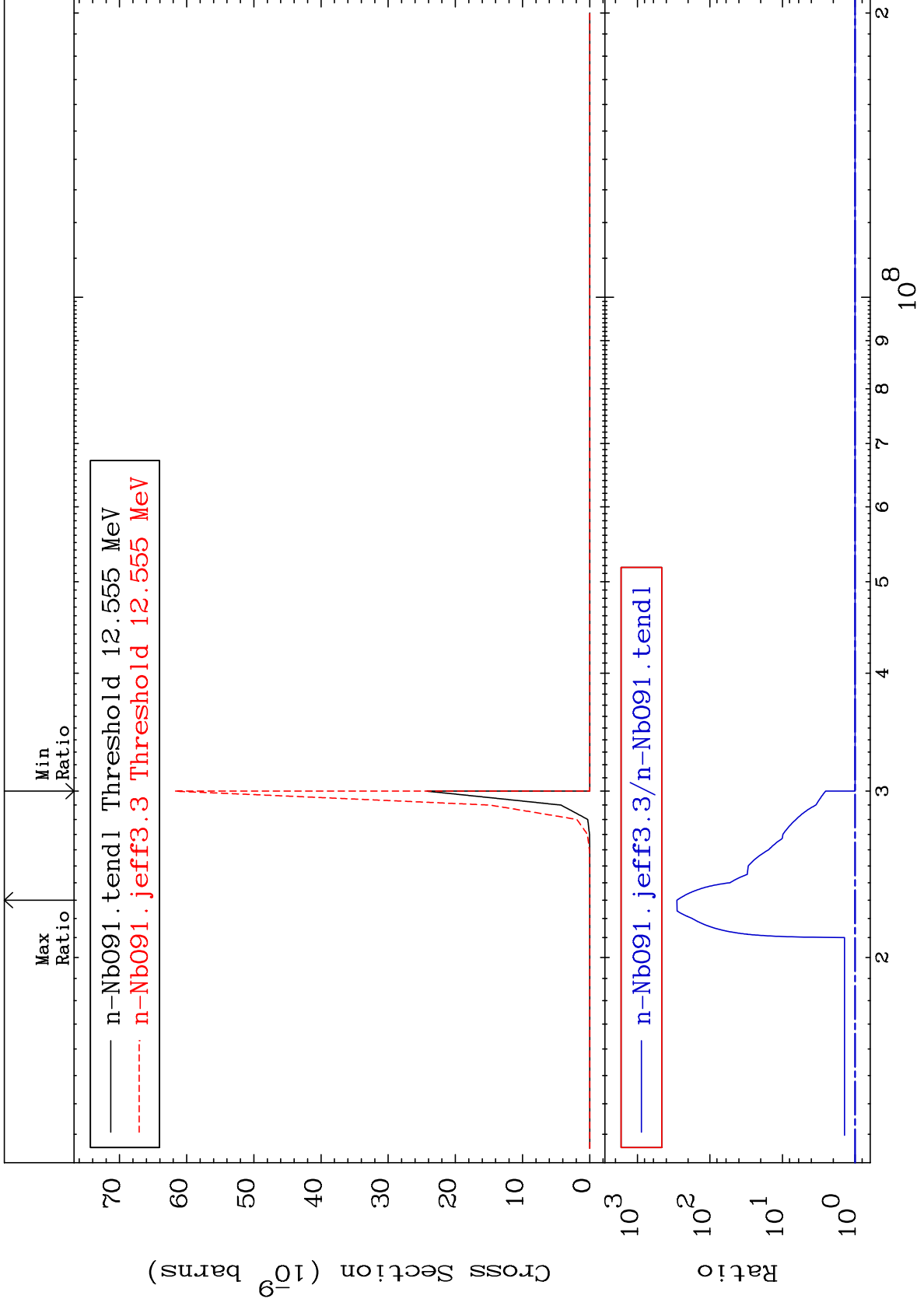
Incident Energy (eV)

41-Nb-91

MAT 4119

(n, n') 2α
Cross Section

41-Nb-91
0.000 To 9999. %



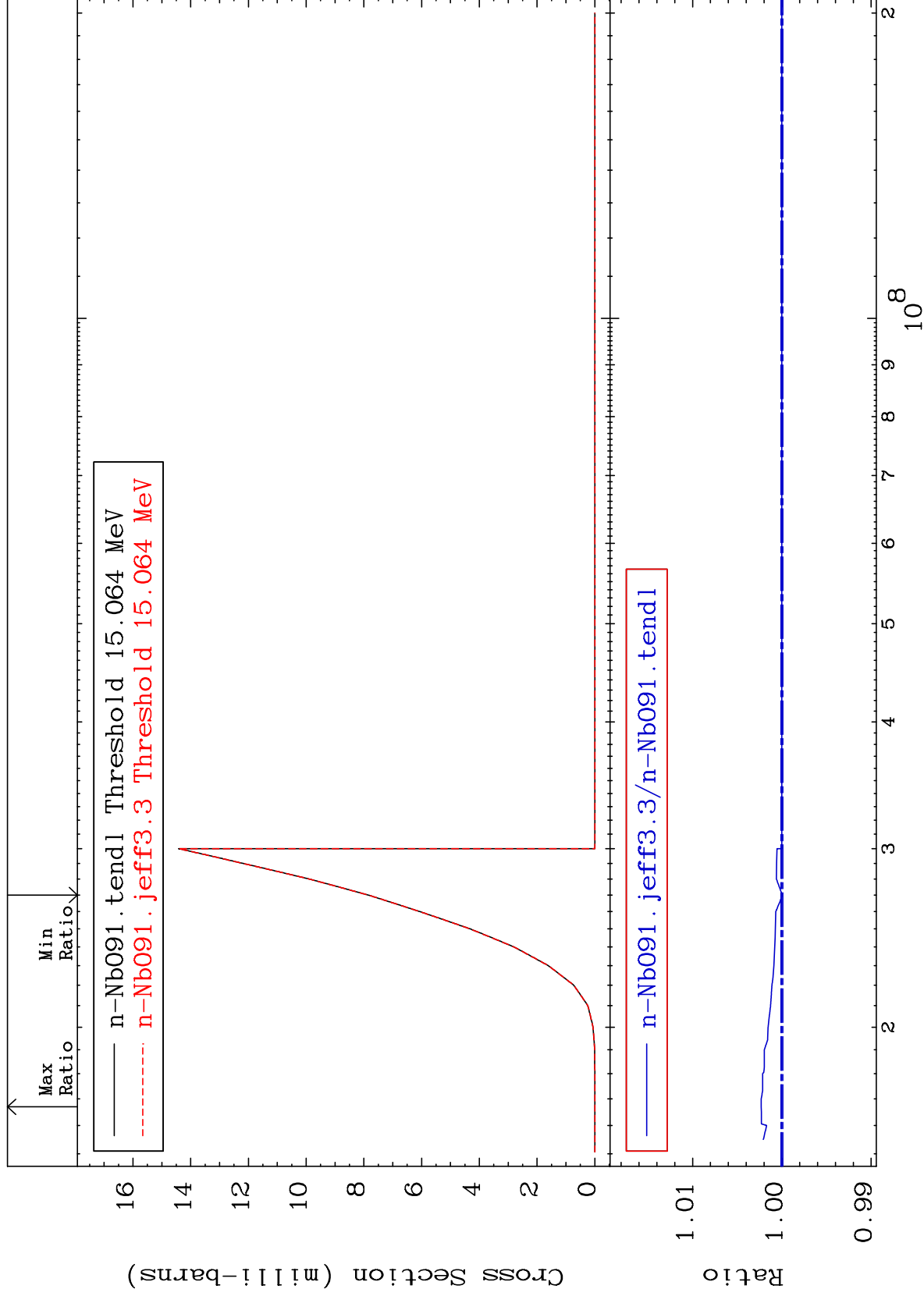
MAT 4119

(n,n') d

41-Nb-91

Cross Section

-0.003 To 0.231 %



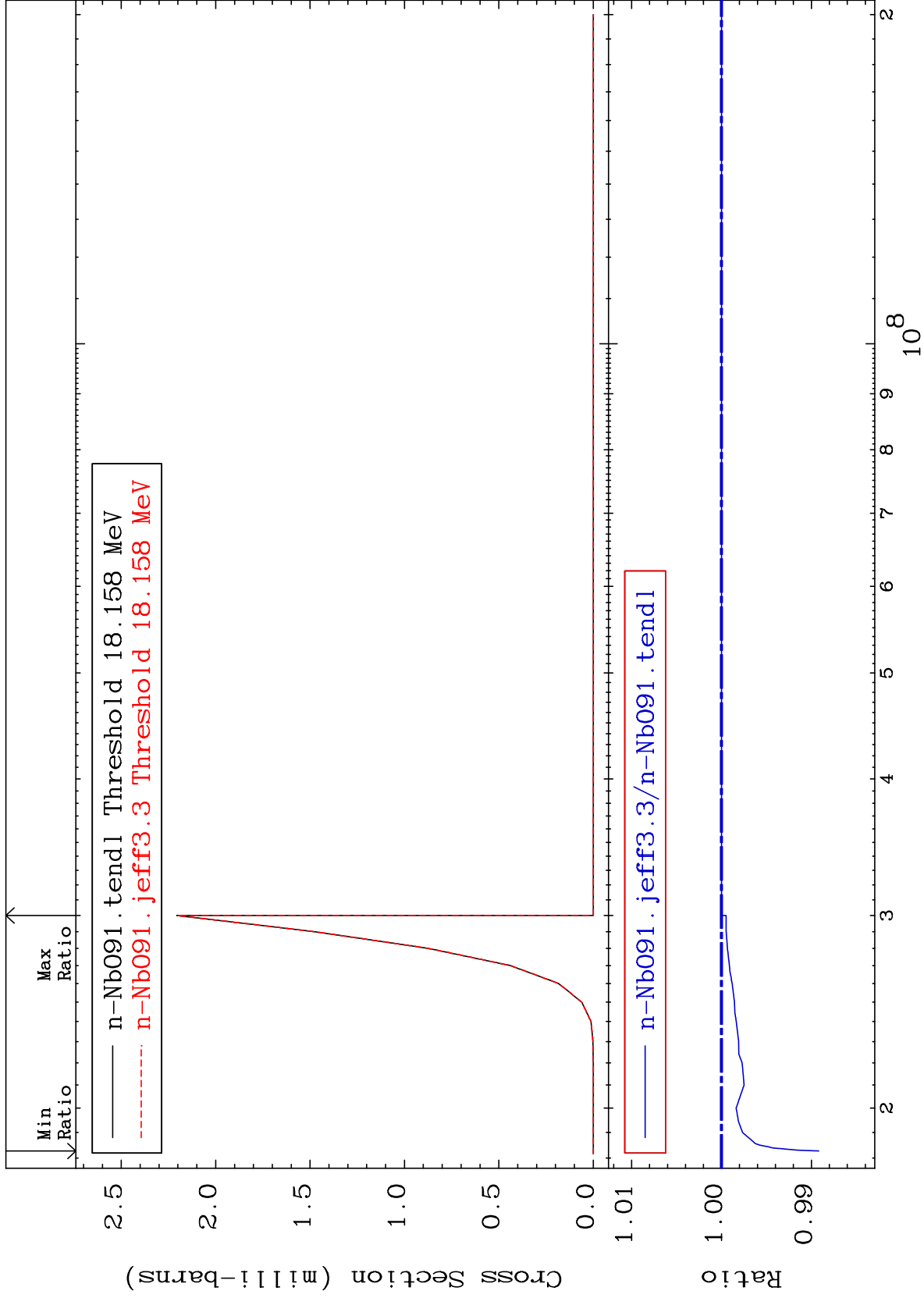
10

Incident Energy (eV)

41-Nb-91

Cross Section

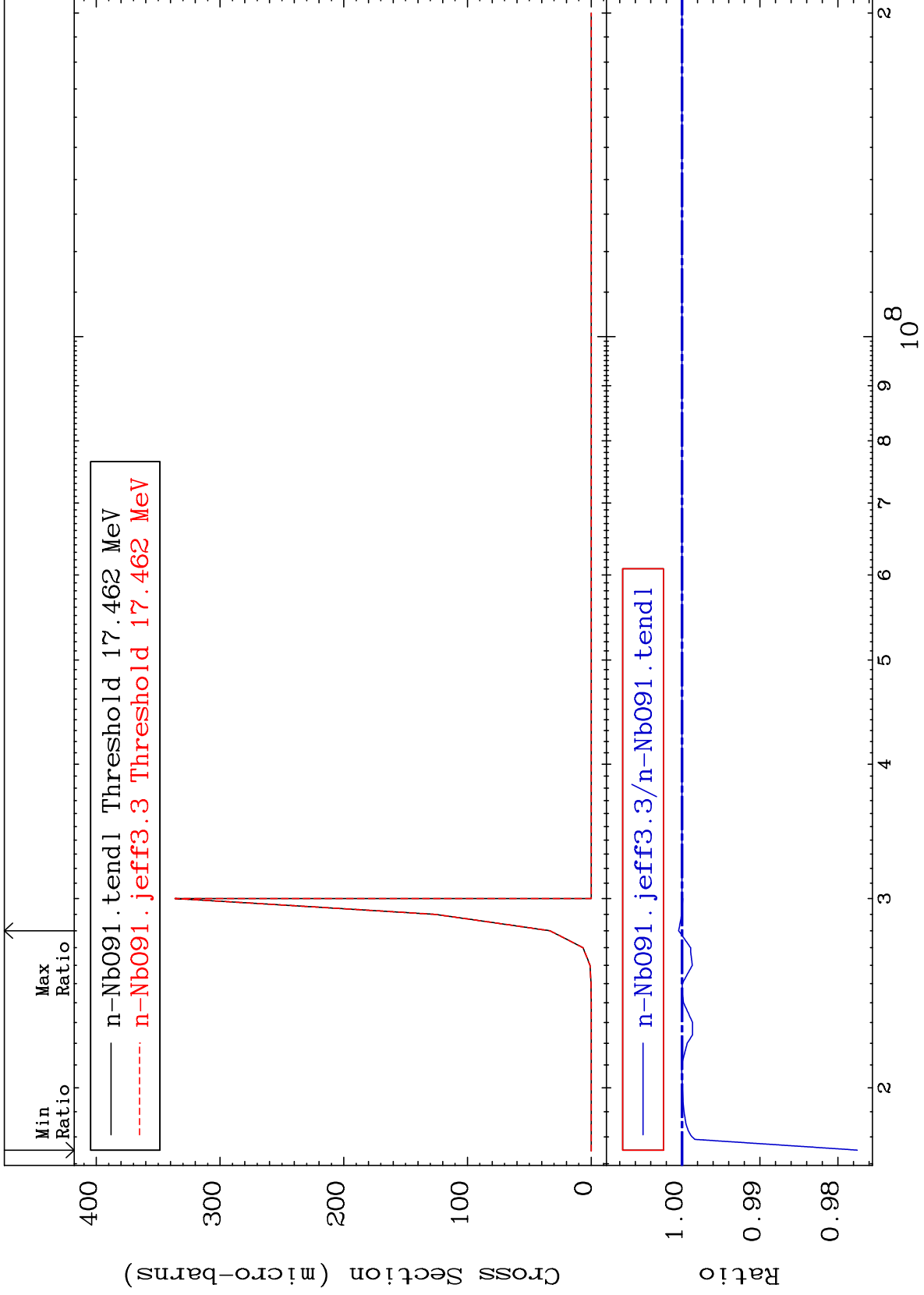
-1.083 To 0.000 %

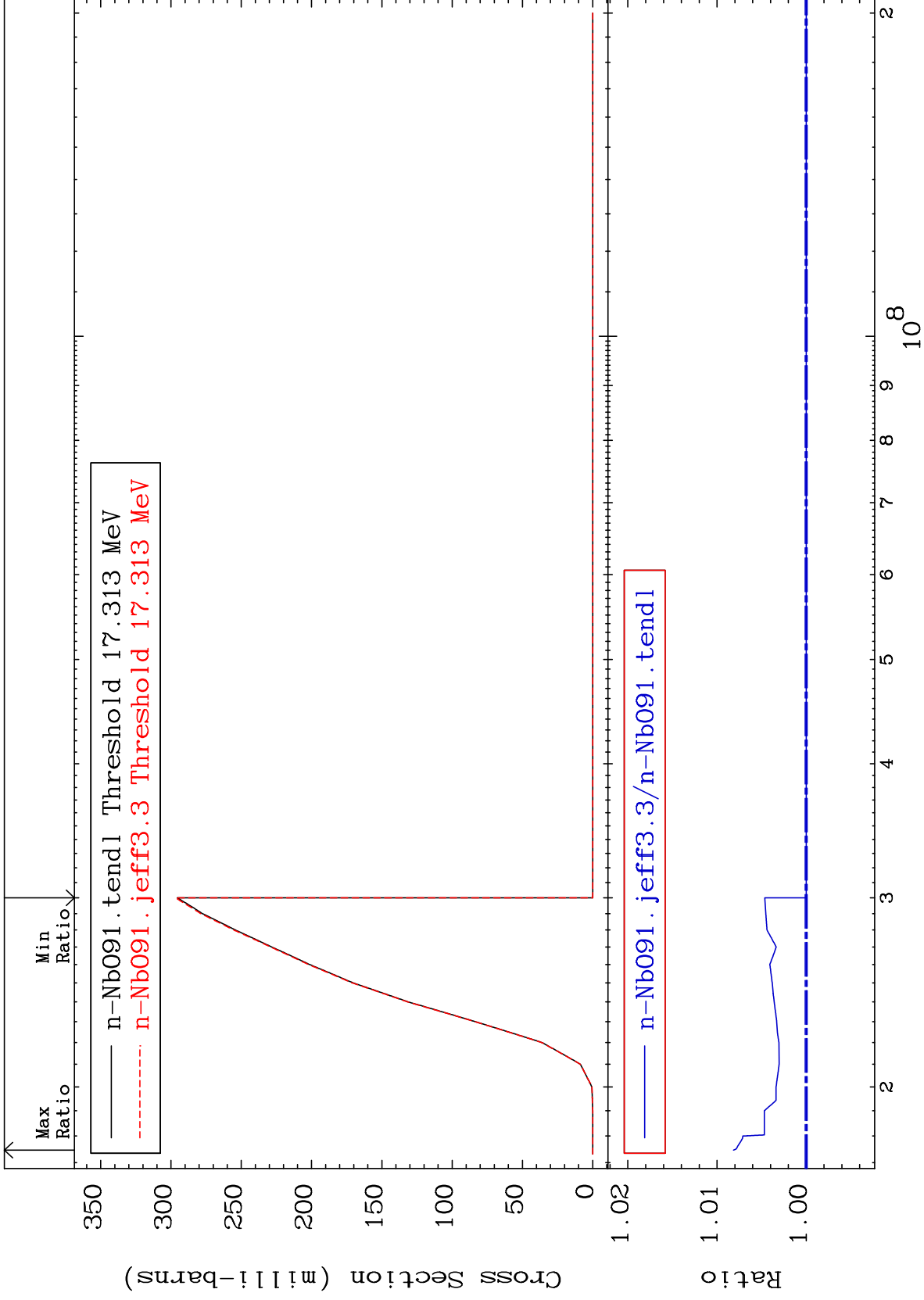


MAT 4119

(n, n') He-3
Cross Section

41-Nb-91
-2.249 To 0.043 %

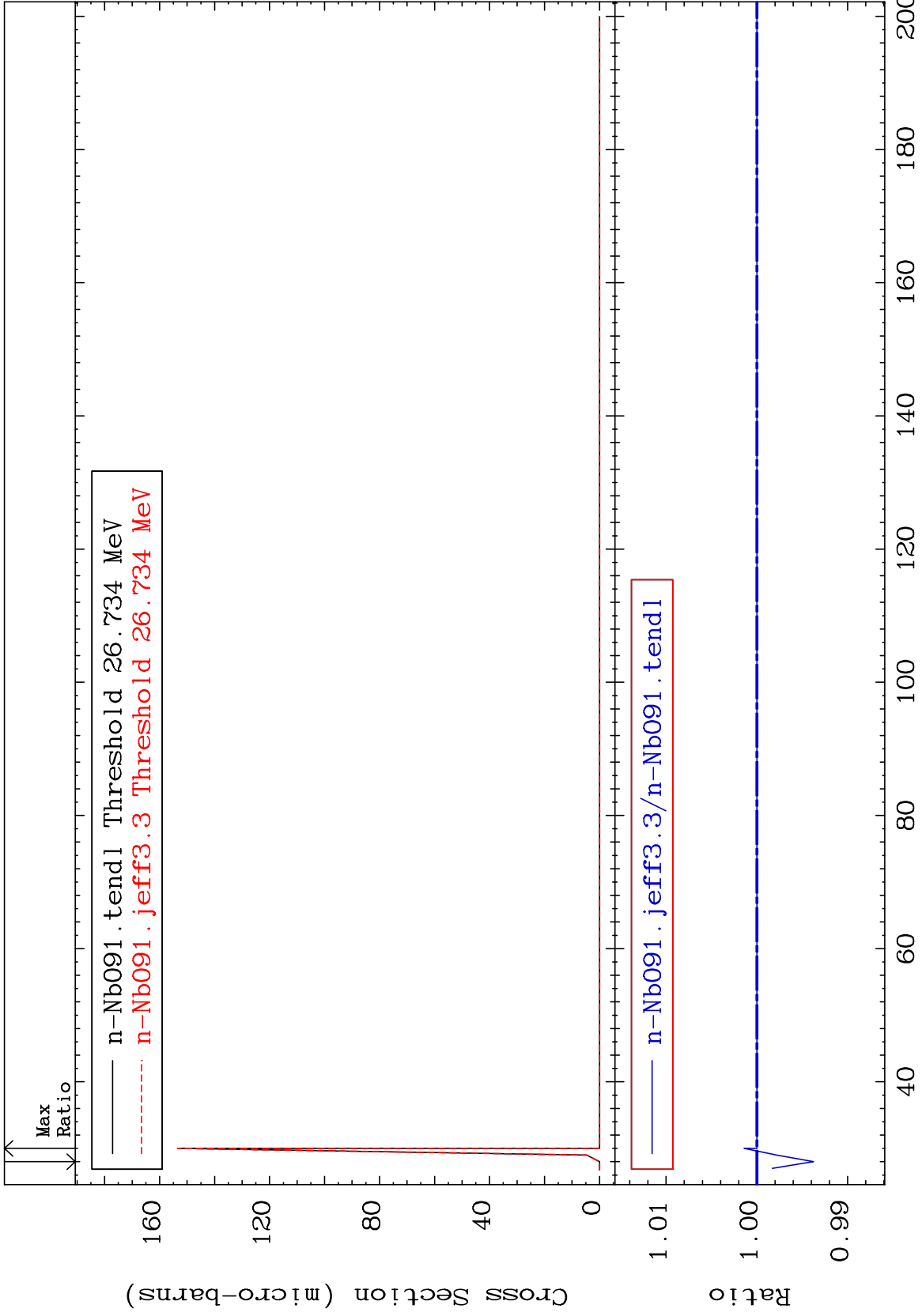




MAT 4119

(n,3n) p
Cross Section

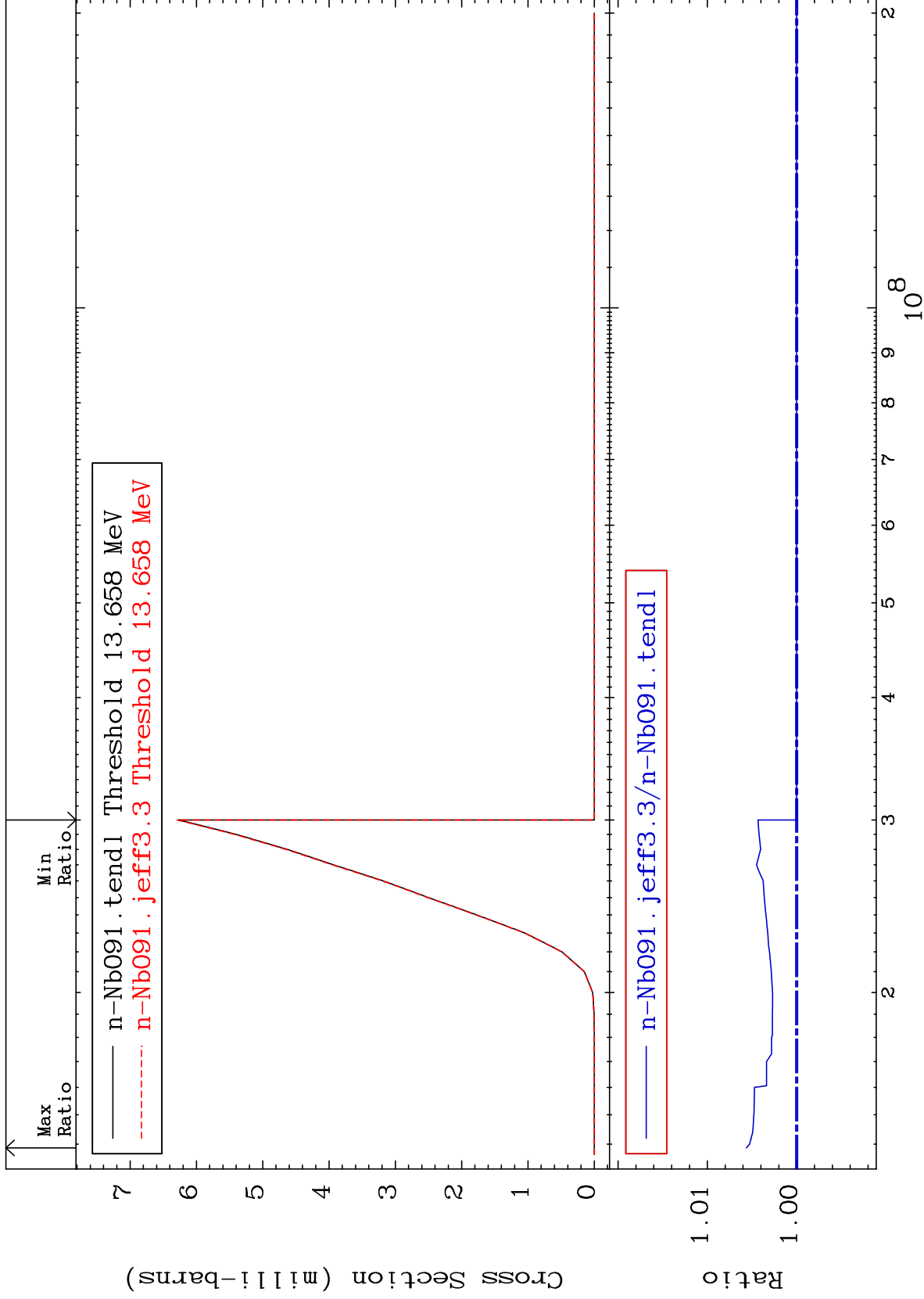
41-Nb-91
-0.623 To 0.141 %

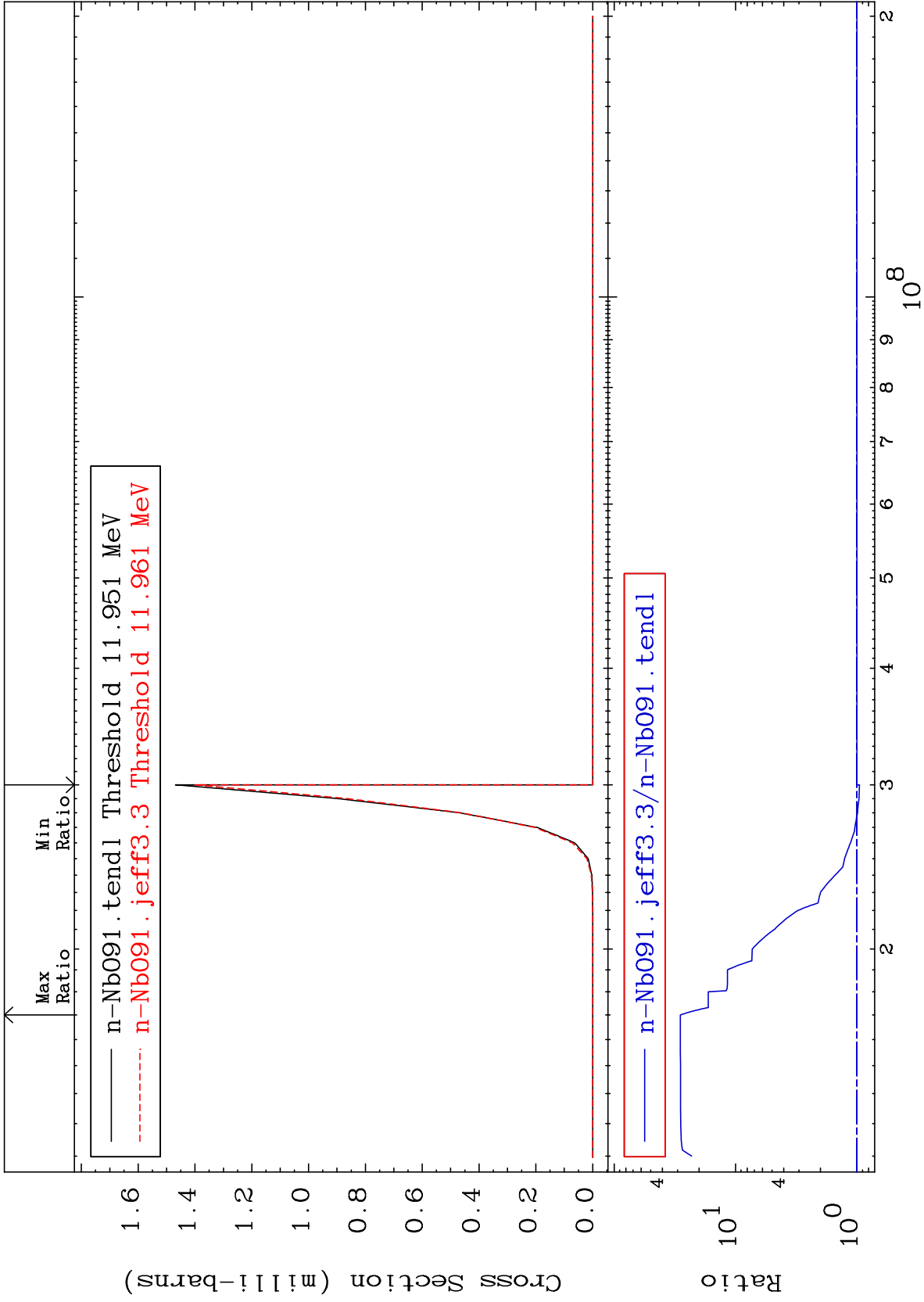


MAT 4119

(n,2n) p
Cross Section

41-Nb-91
0.000 To 0.564 %

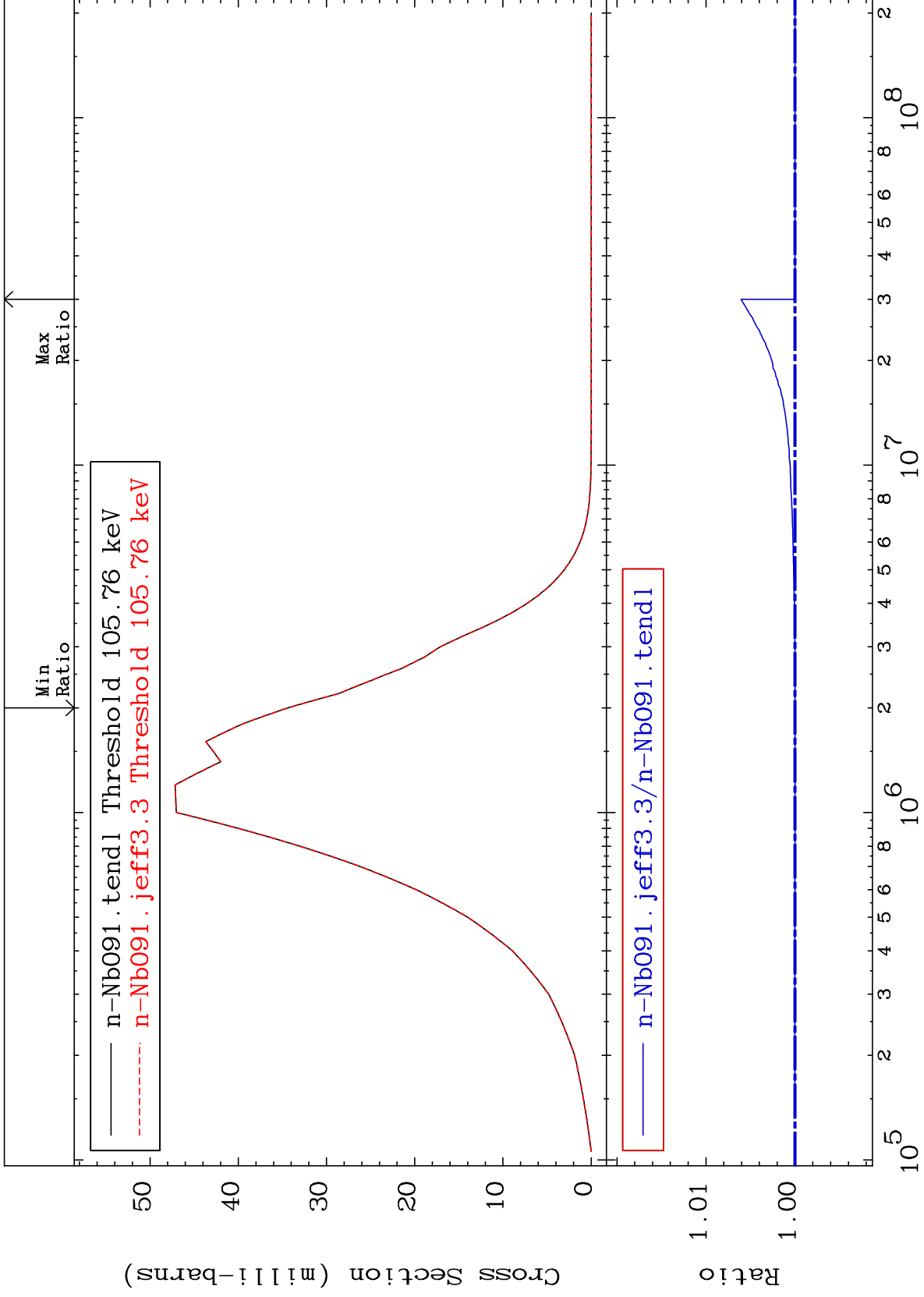




MAT 4119

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

41-Nb-91
0.000 To 0.608 %



17

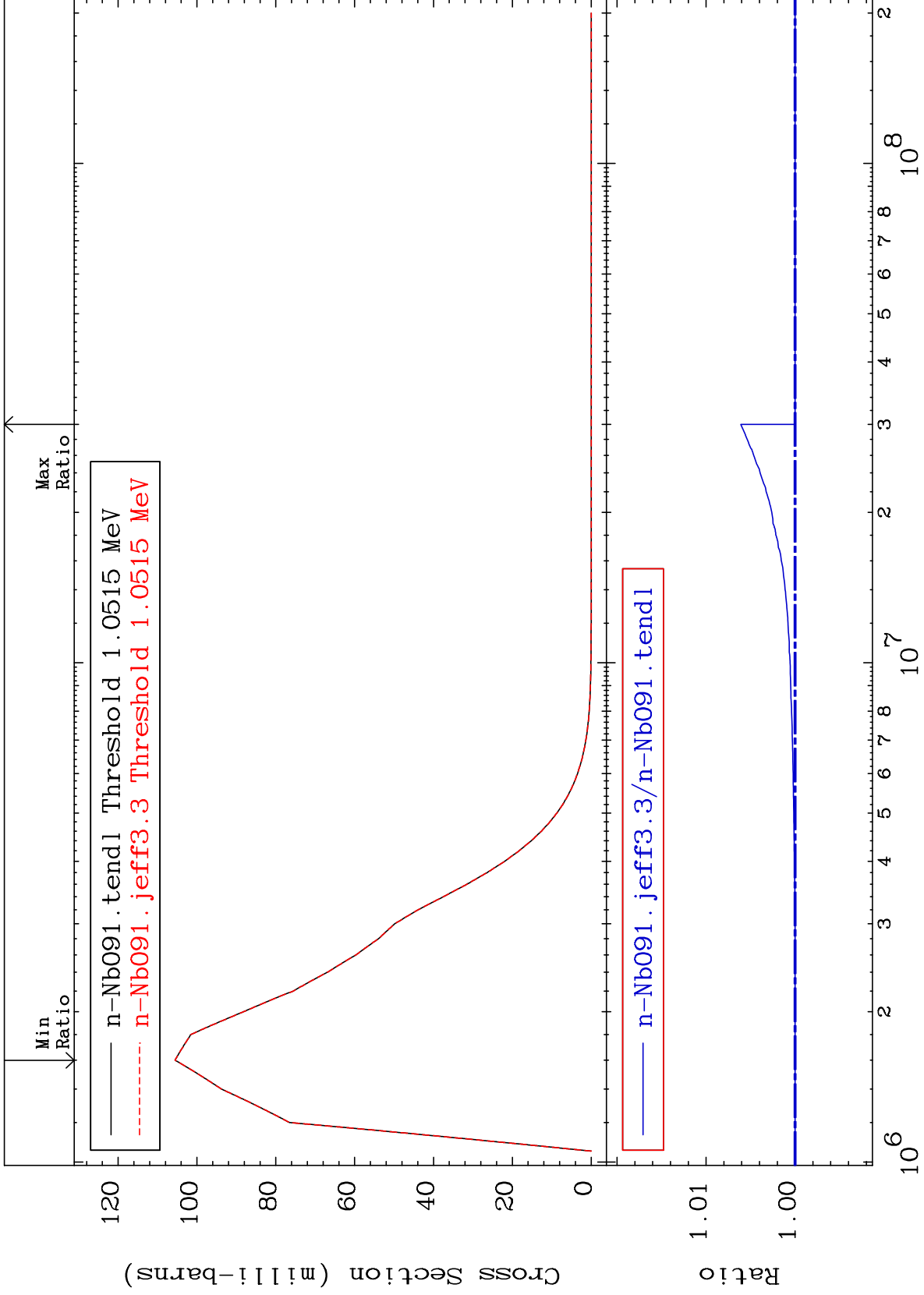
Incident Energy (eV)

41-Nb-91

MAT 4119

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

41-Nb-91
To 0.610 %



18

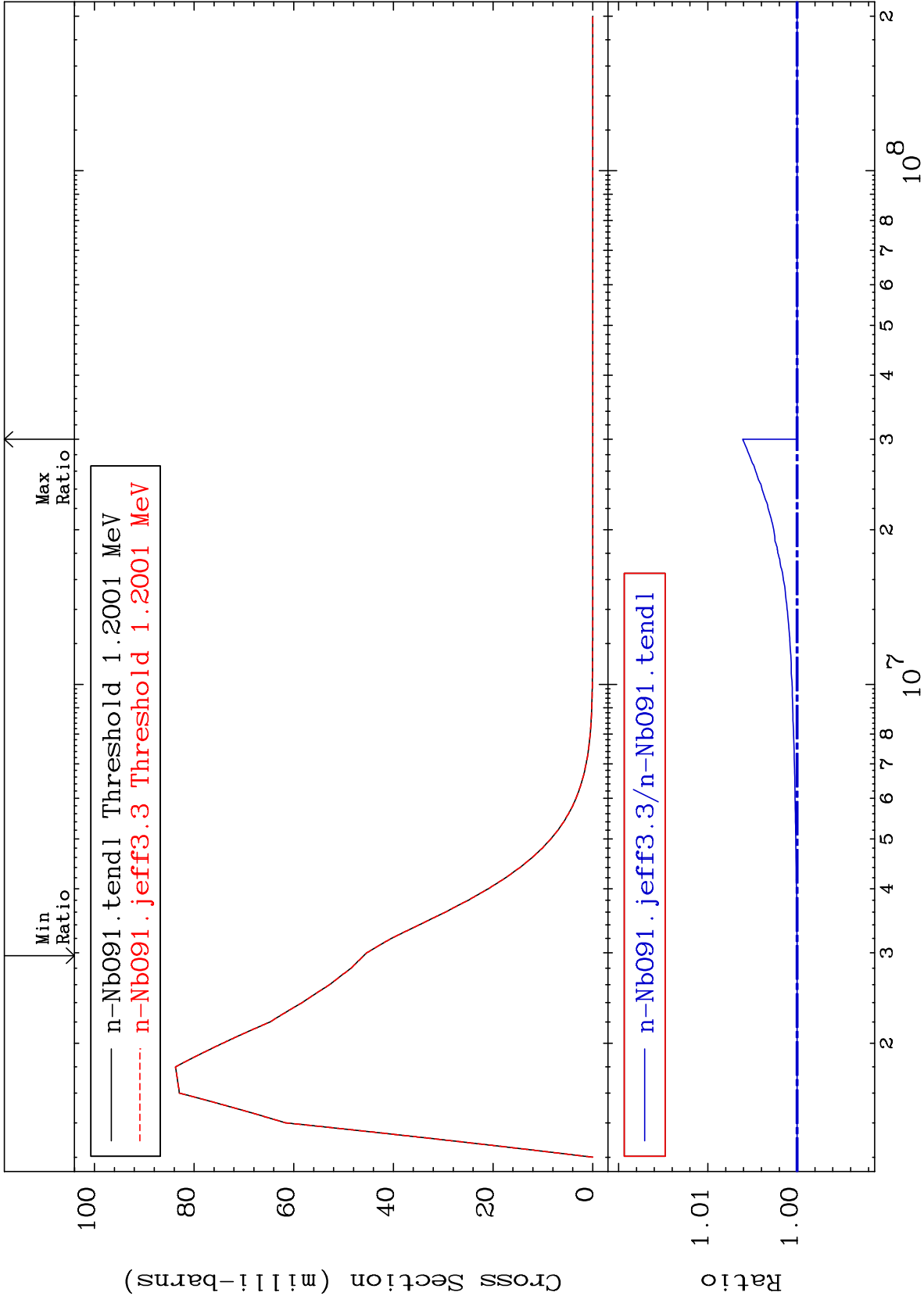
Incident Energy (eV)

41-Nb-91

MAT 4119

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

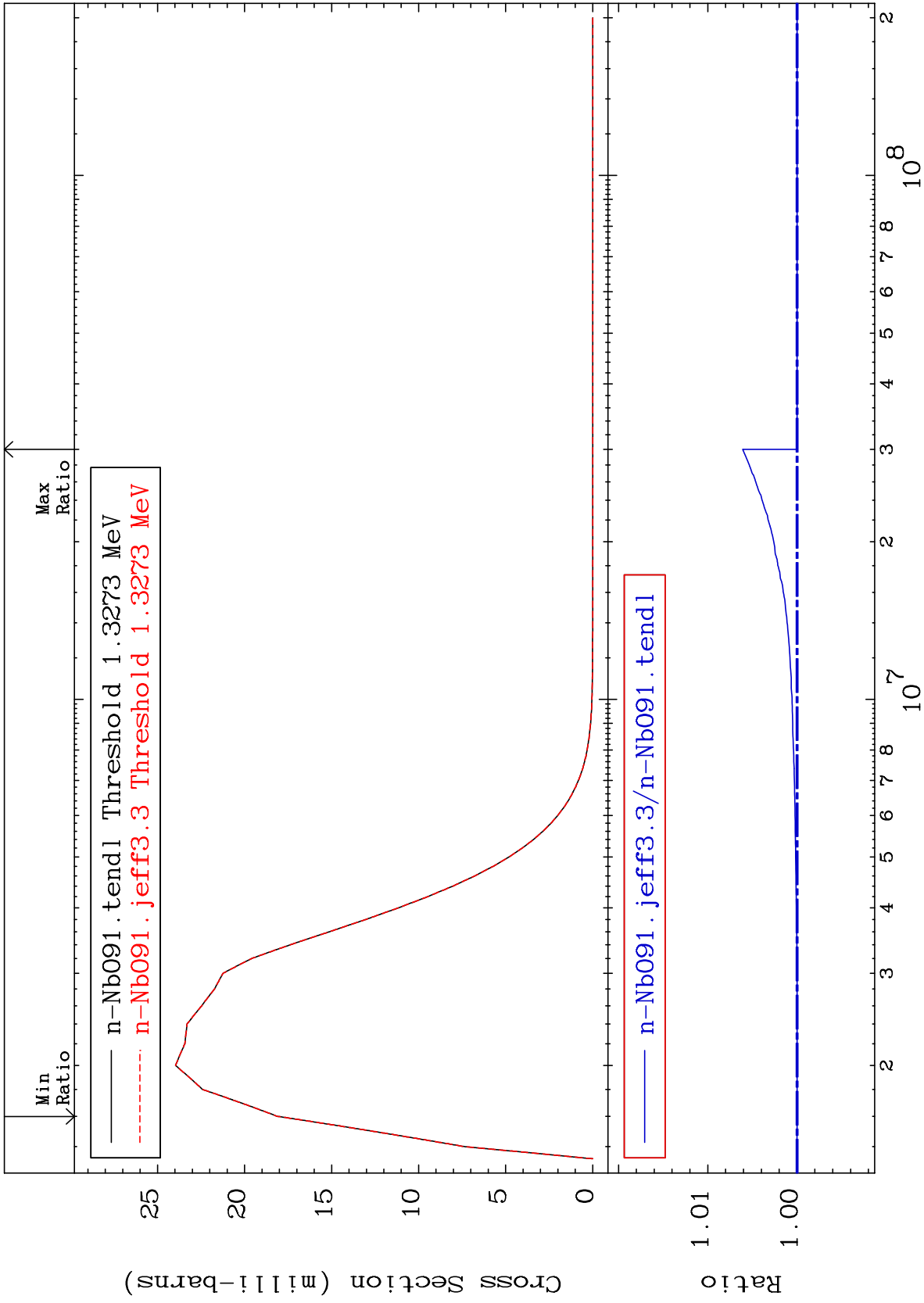
41-Nb-91
0.000 To 0.610 %



MAT 4119

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

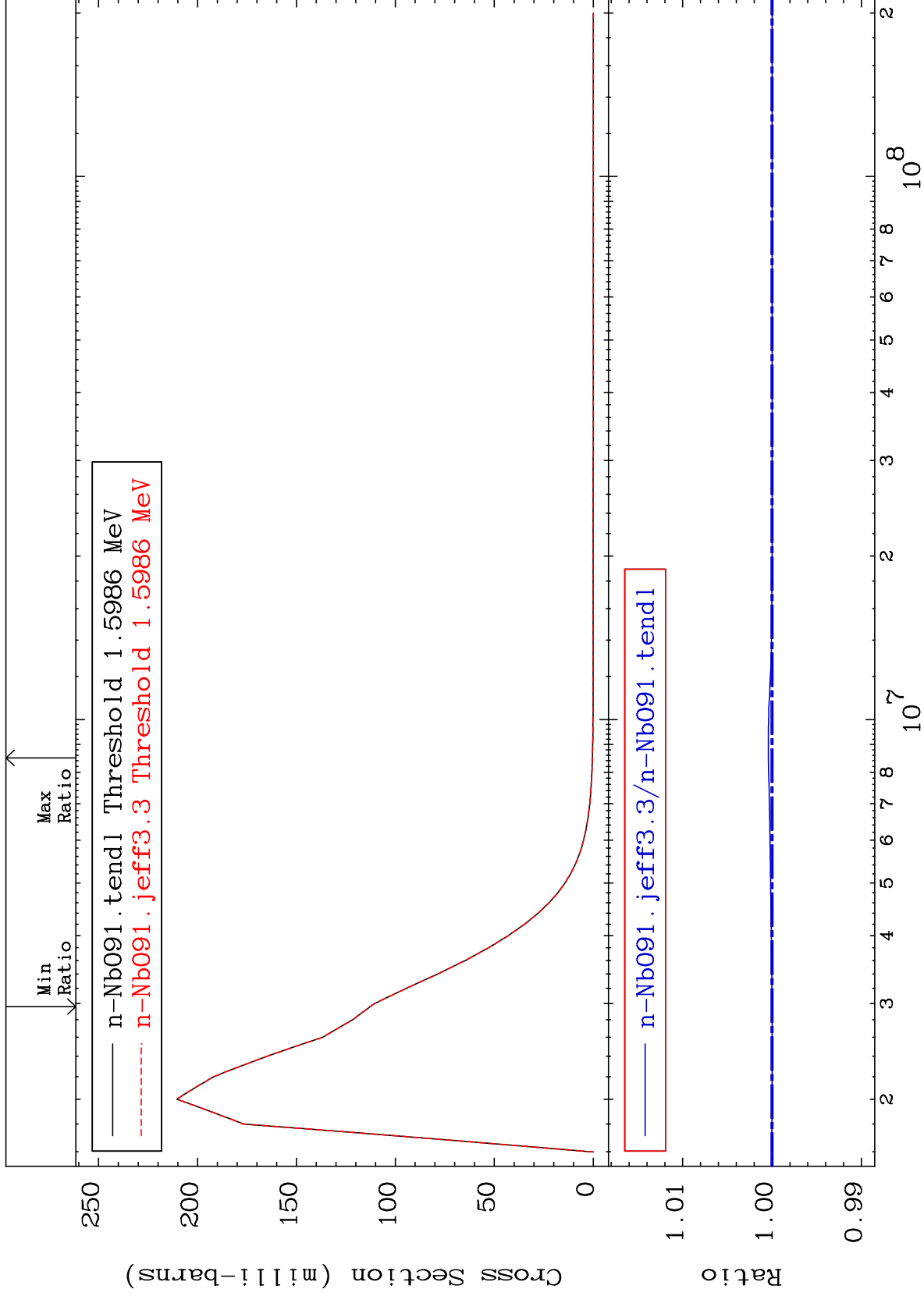
41-Nb-91
0.000 To 0.608 %



MAT 4119

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

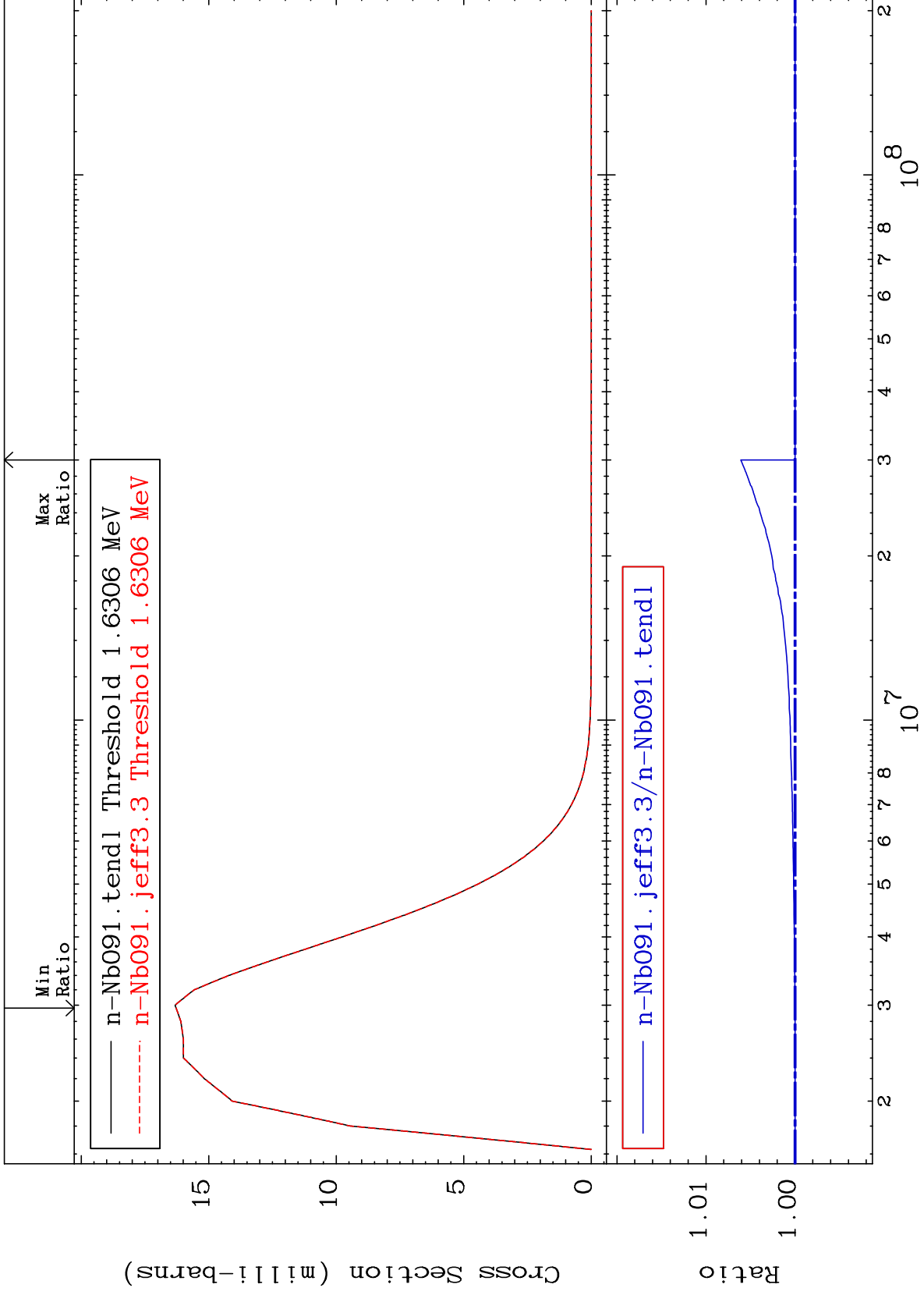
41-Nb-91
0.000 To 0.042 %



MAT 4119

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

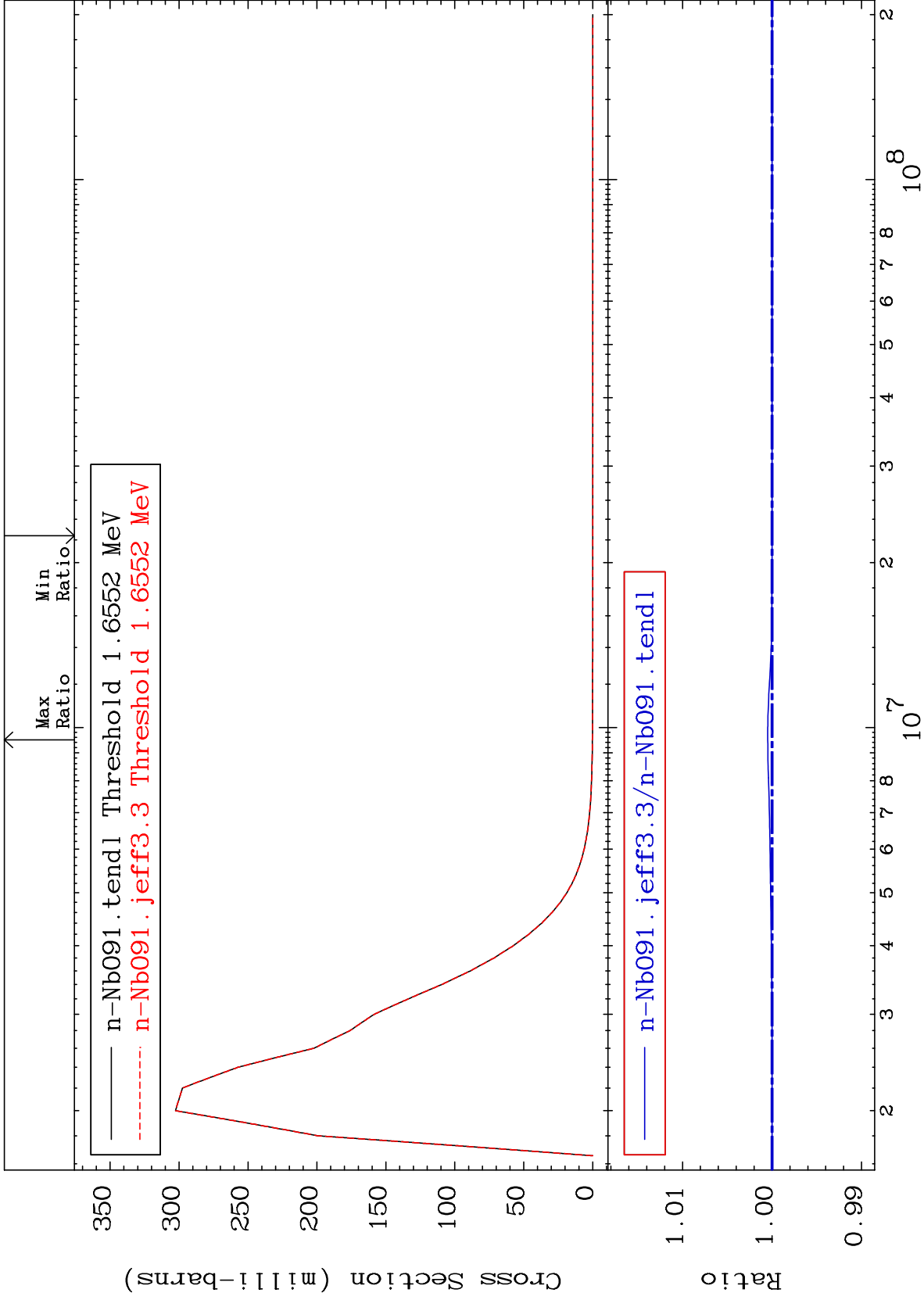
41-Nb-91
0.000 To 0.608 %



MAT 4119

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

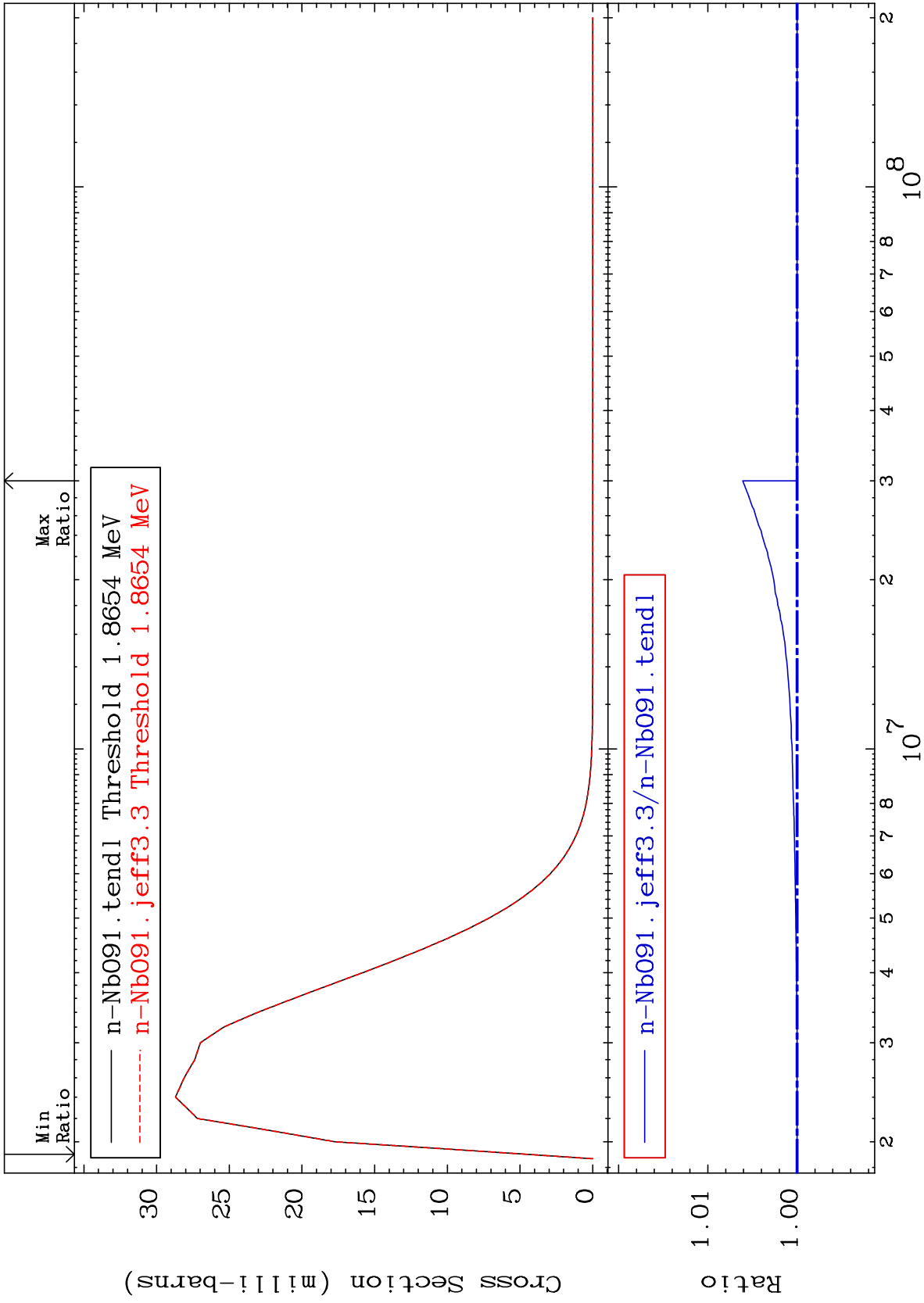
41-Nb-91
0.000 To 0.048 %



MAT 4119

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

41-Nb-91
To 0.610 %



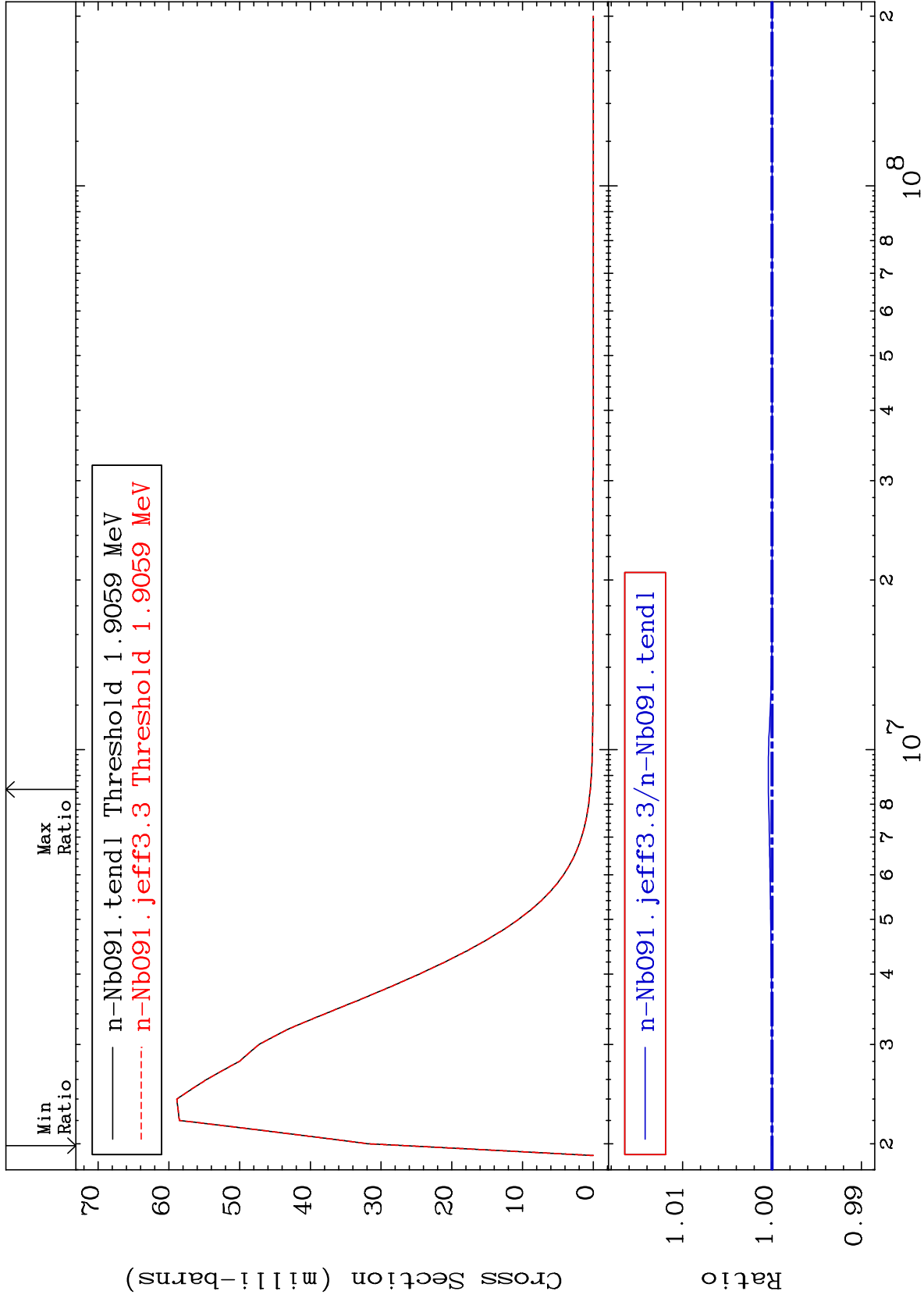
24

41-Nb-91

MAT 4119

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

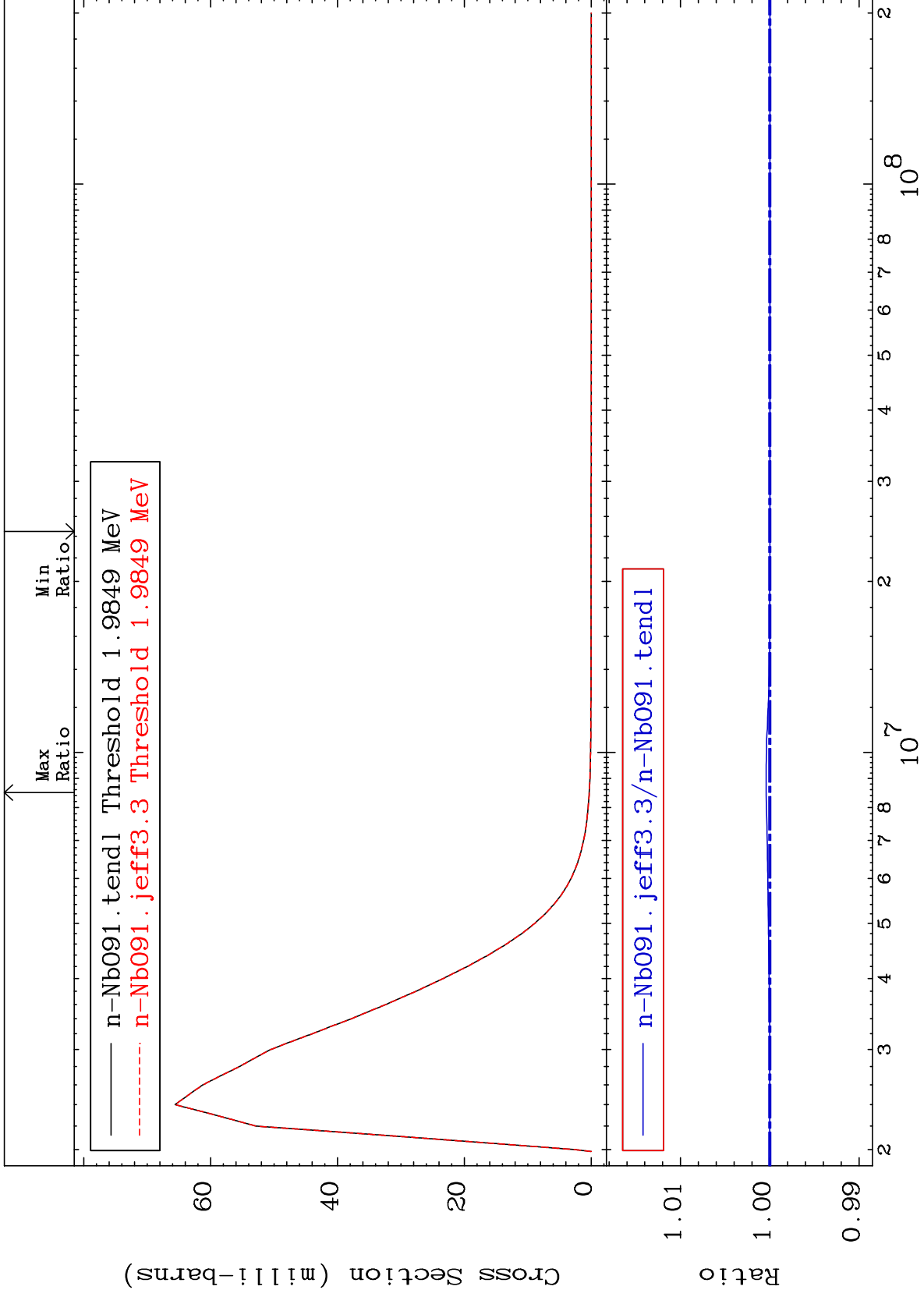
41-Nb-91
0.000 To 0.042 %



MAT 4119

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

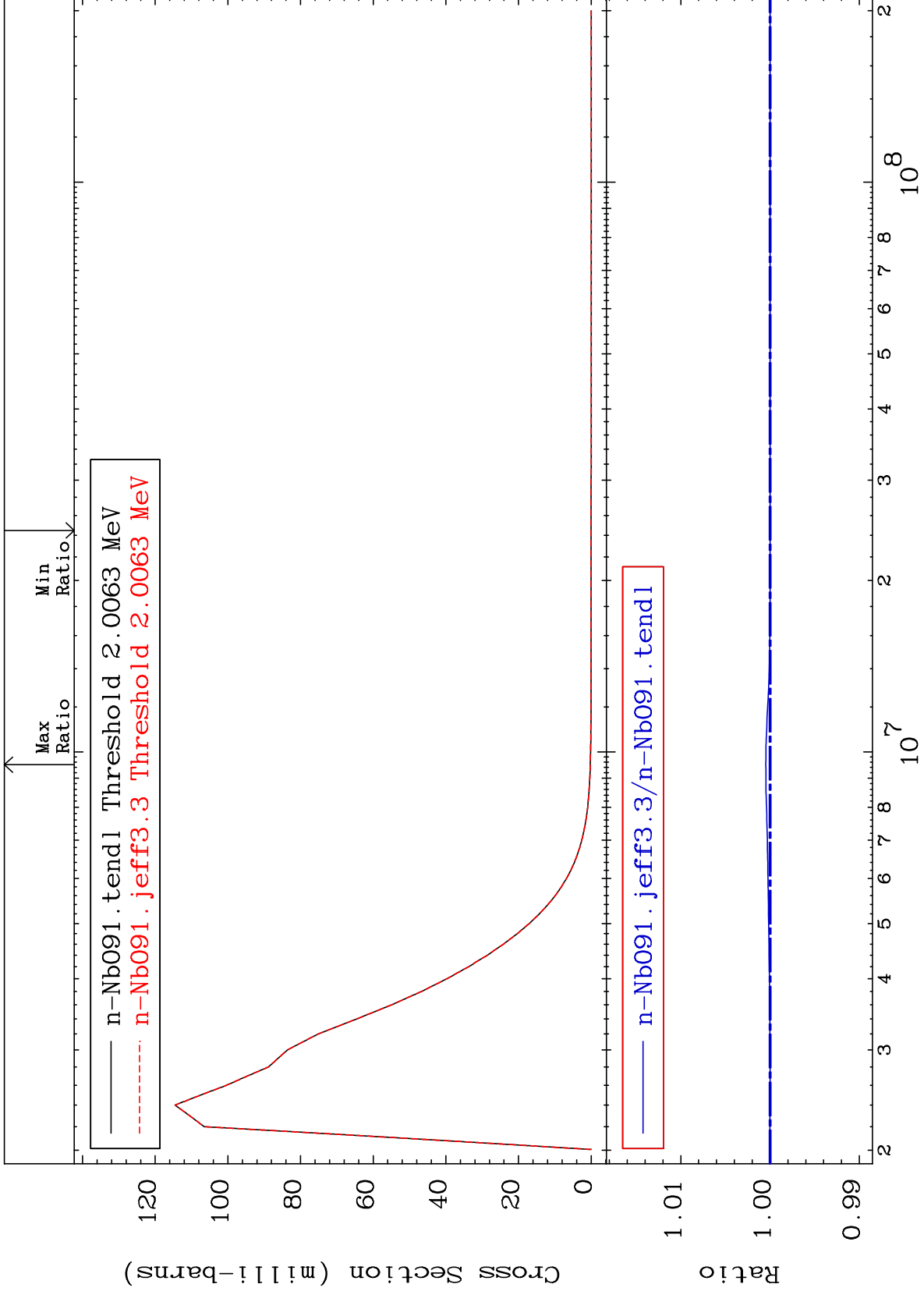
41-Nb-91
0.000 To 0.042 %



MAT 4119

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

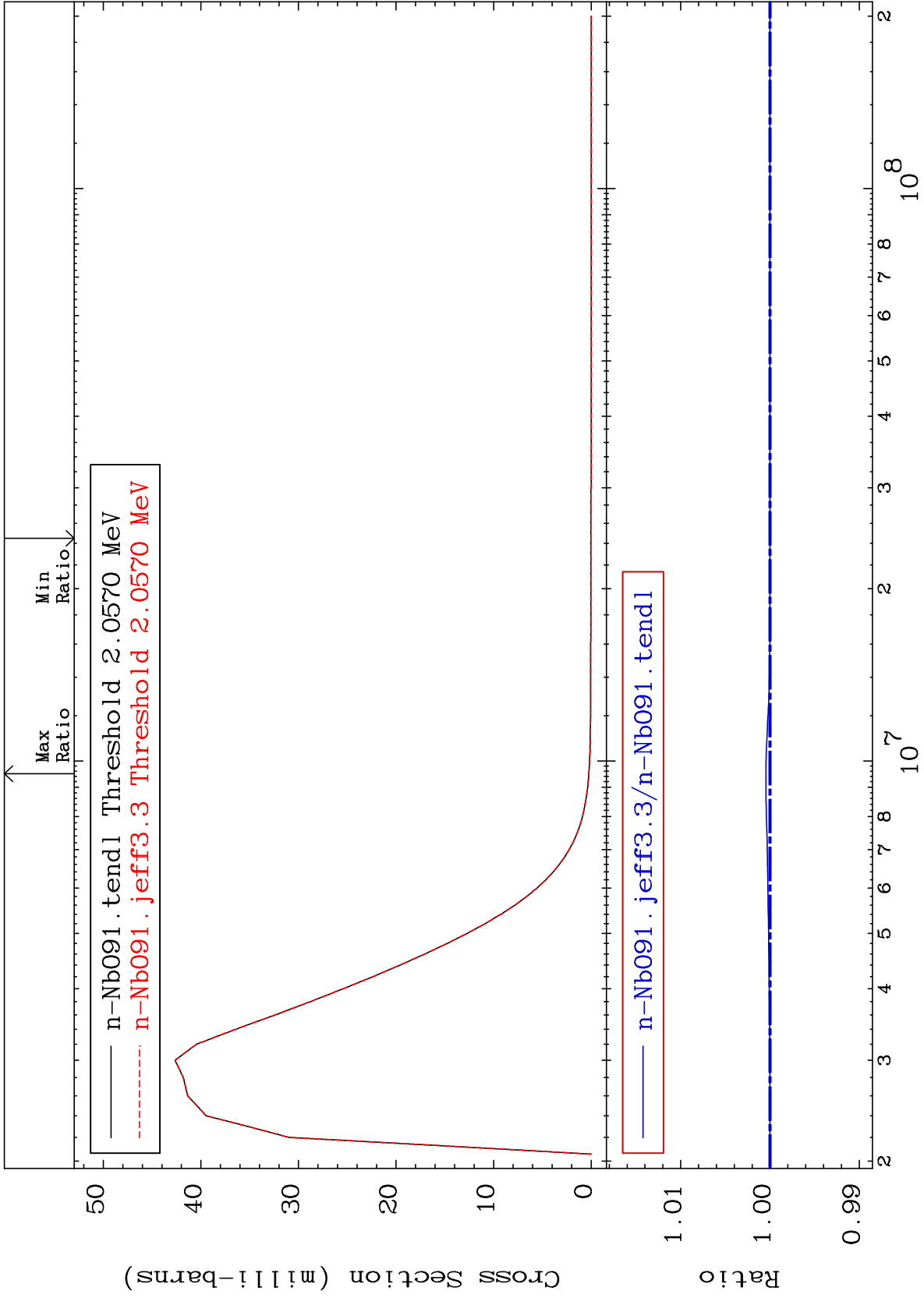
41-Nb-91
0.000 To 0.048 %



MAT 4119

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

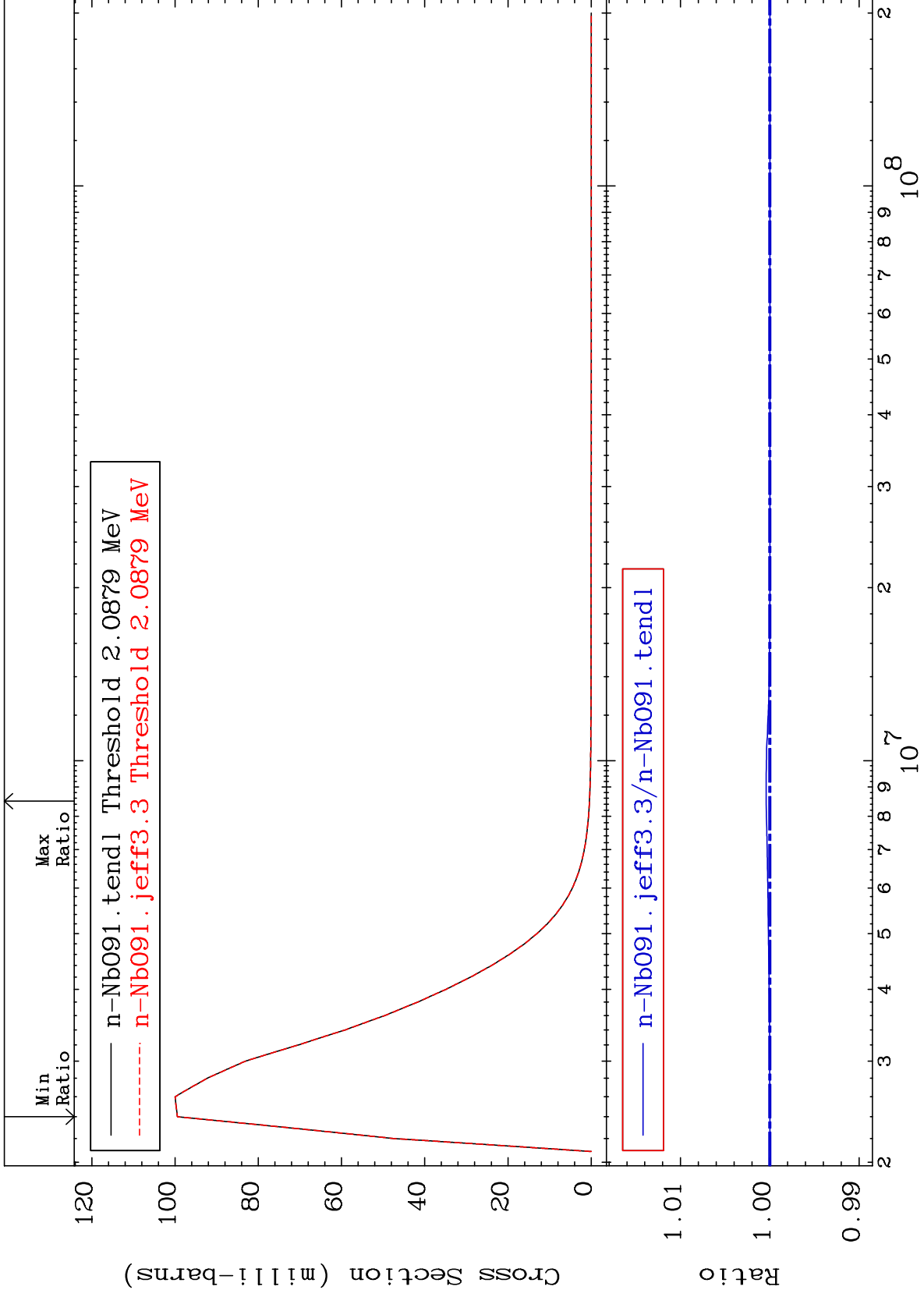
41-Nb-91
0.000 To 0.046 %



MAT 4119

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

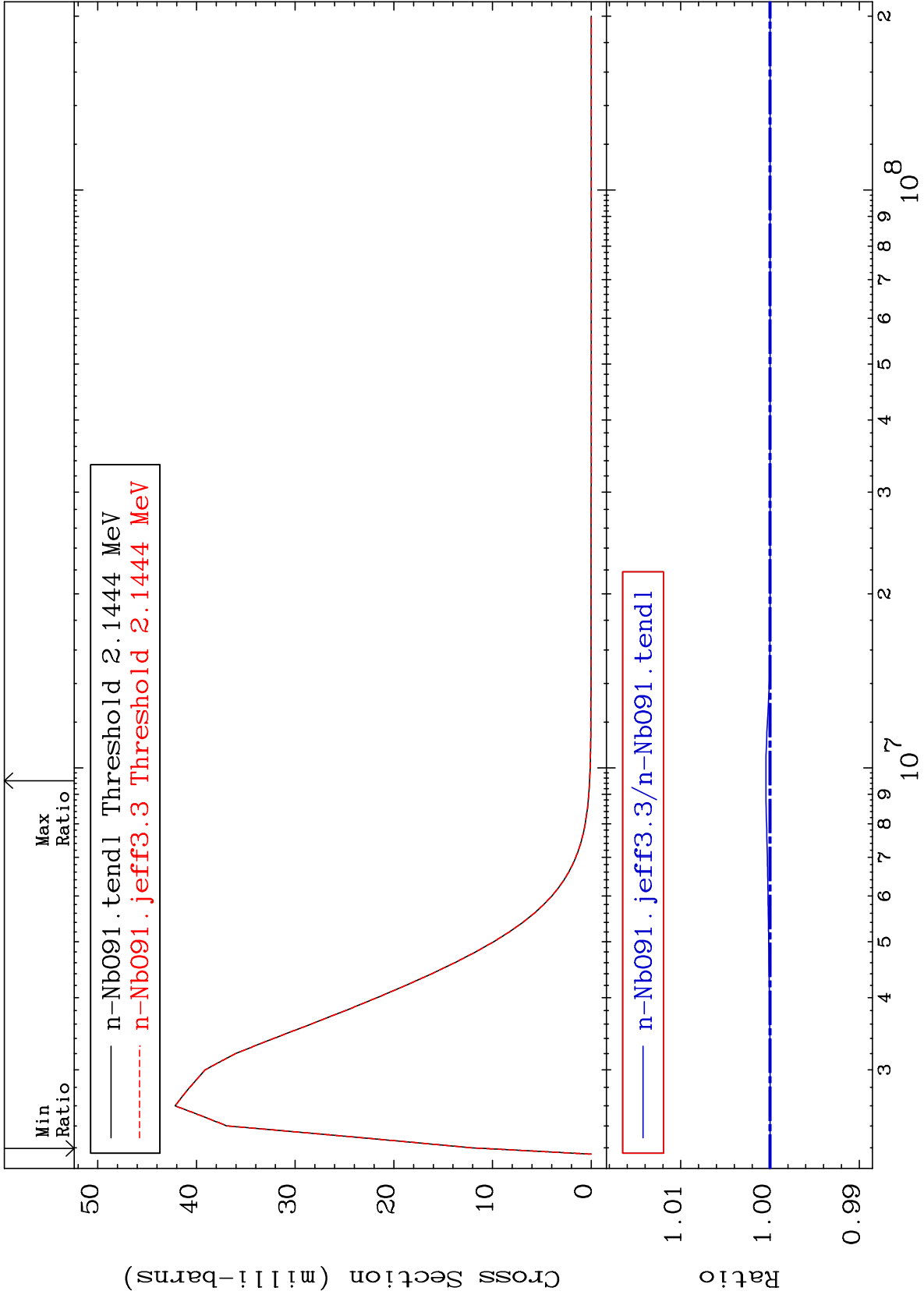
41-Nb-91
0.000 To 0.042 %



MAT 4119

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

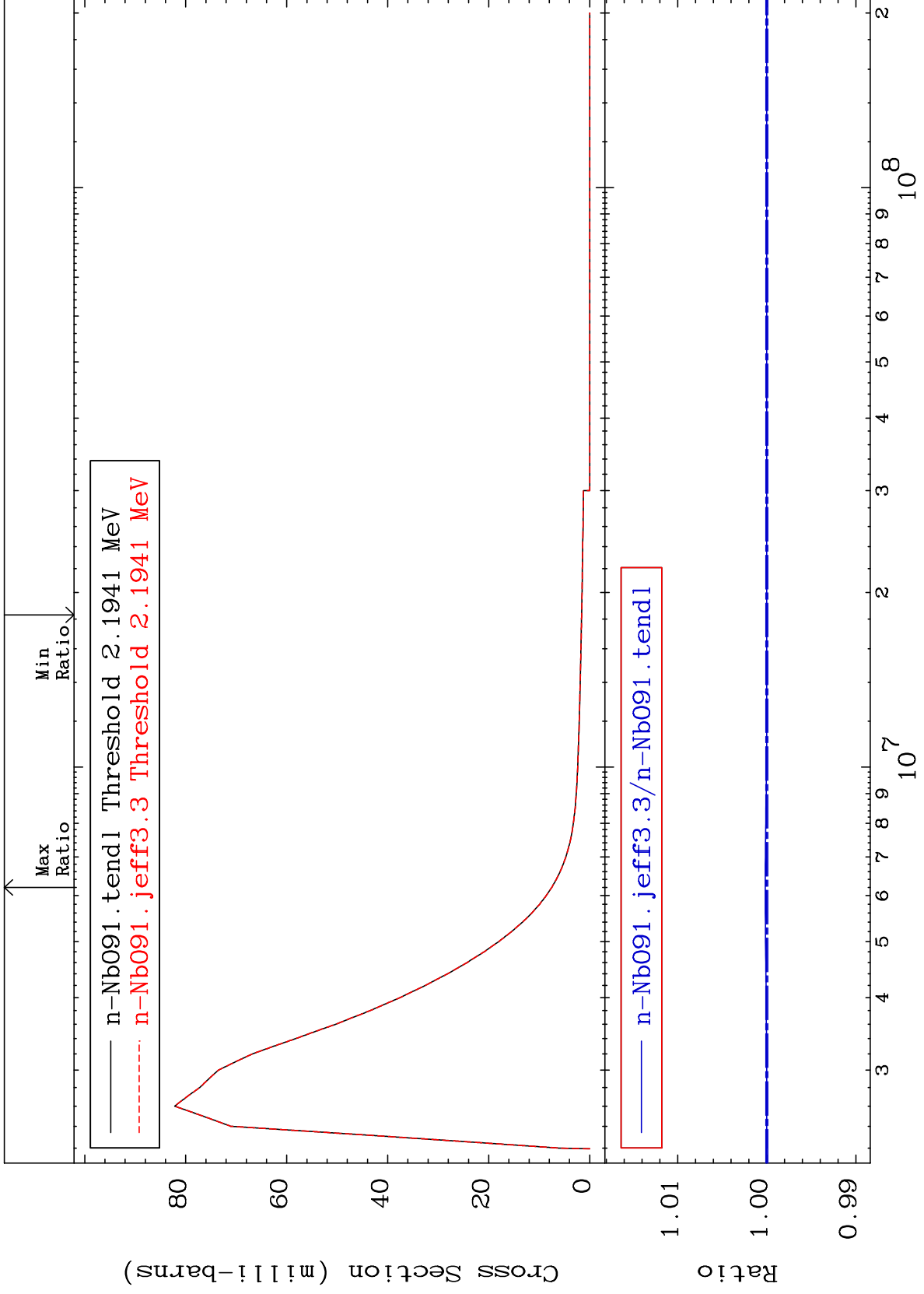
41-Nb-91
0.000 To 0.047 %



MAT 4119

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

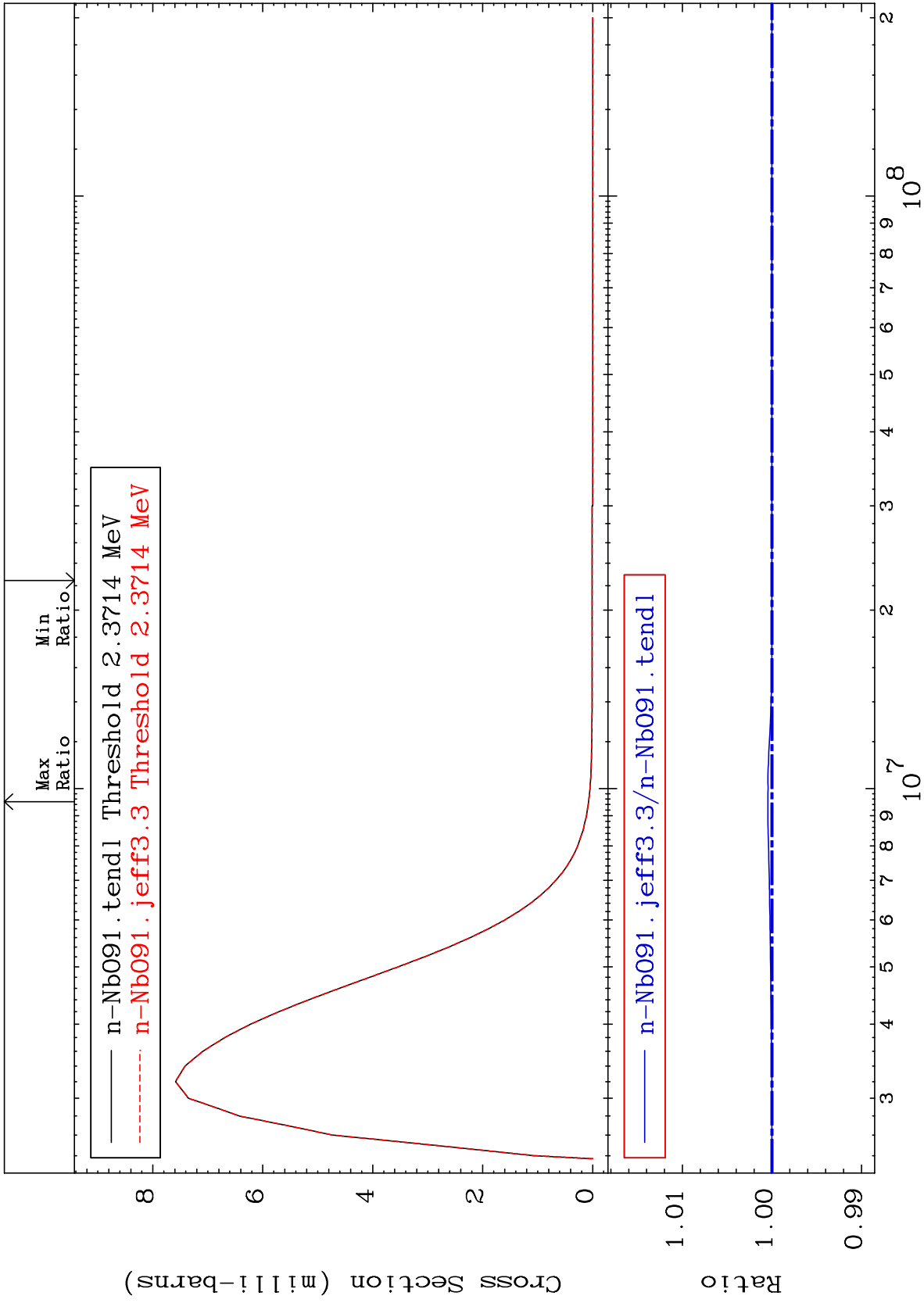
41-Nb-91
0.000 To 0.017 %



MAT 4119

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

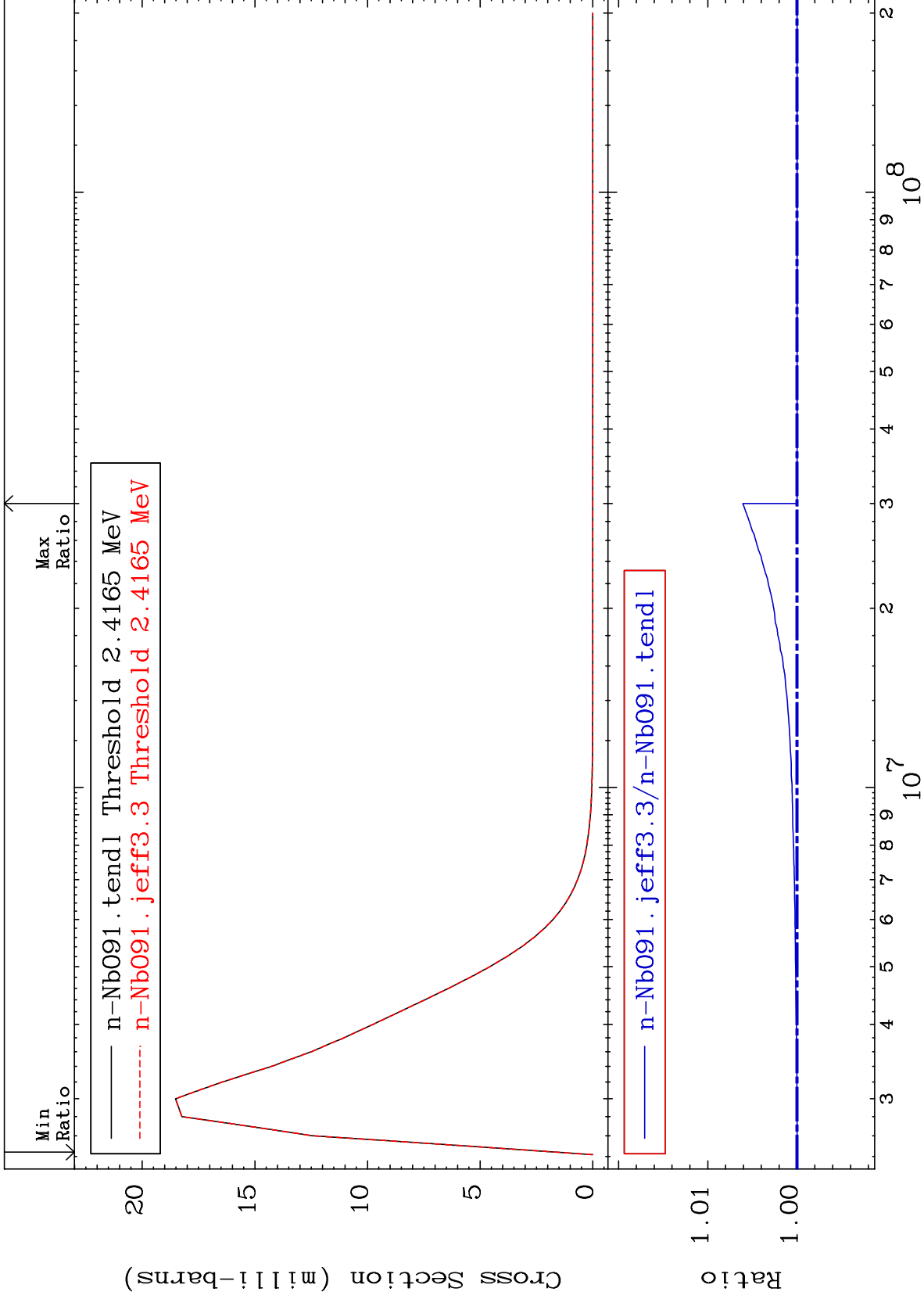
41-Nb-91
0.000 To 0.046 %



MAT 4119

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

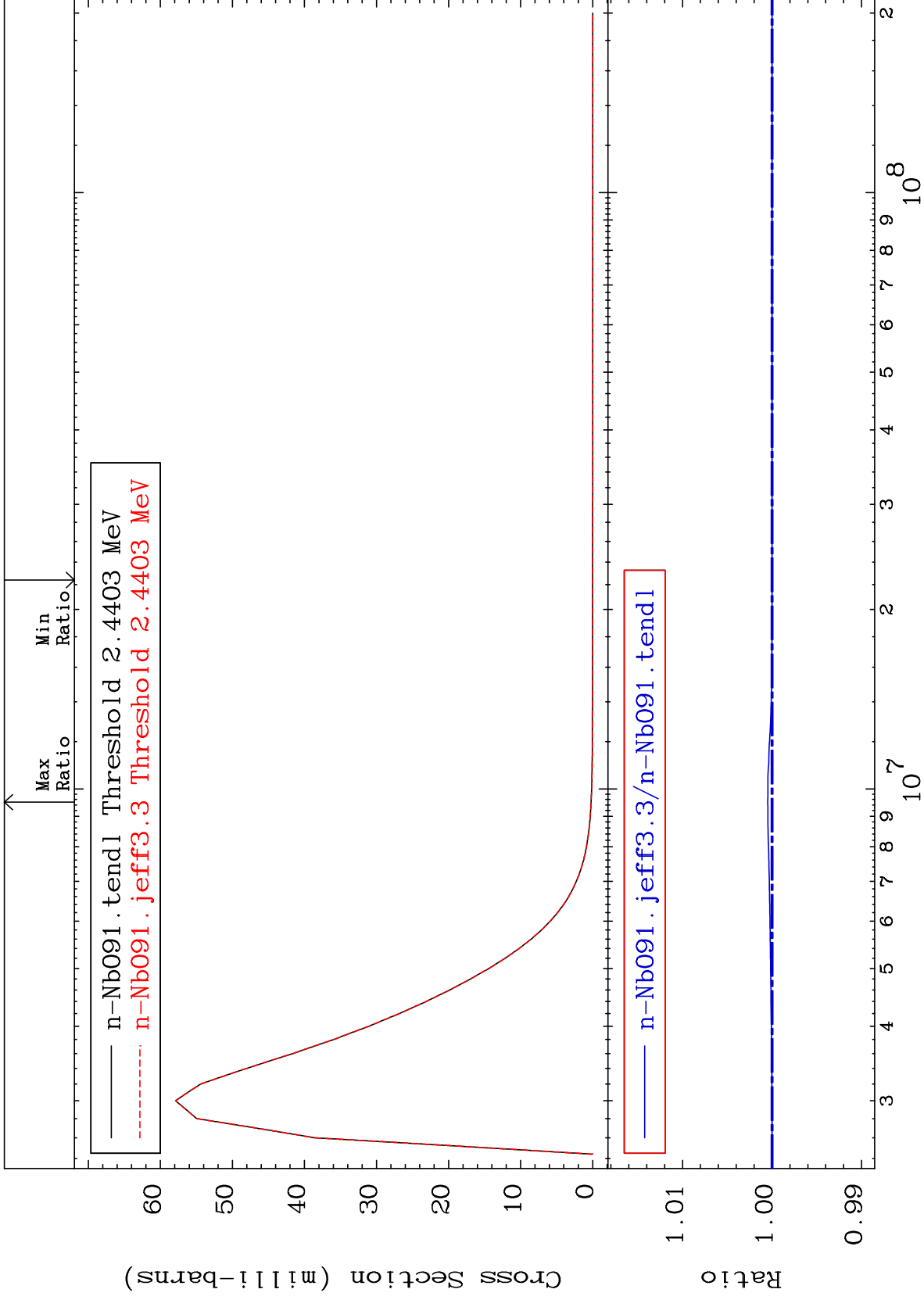
41-Nb-91
0.000 To 0.608 %



MAT 4119

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

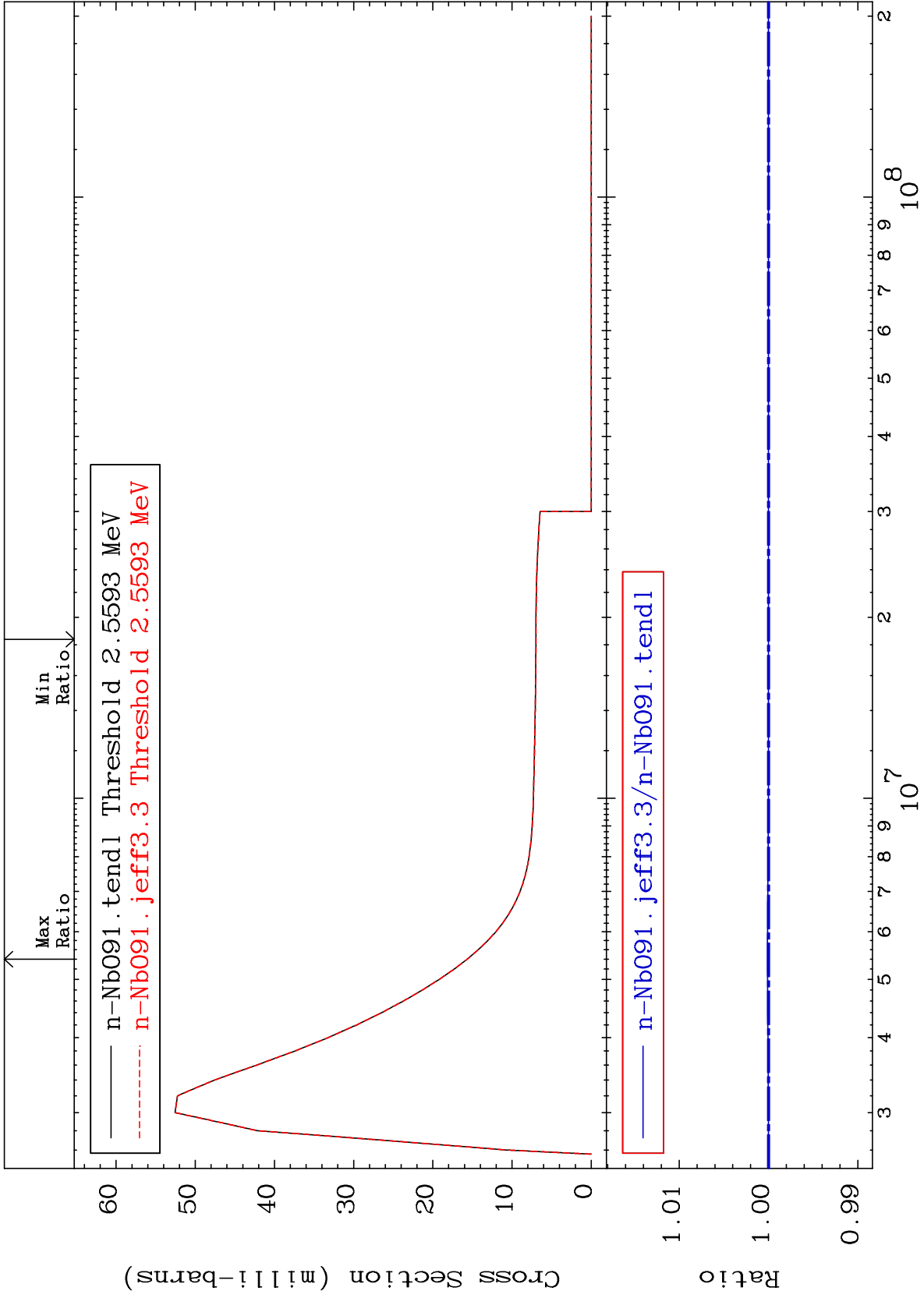
41-Nb-91
0.000 To 0.048 %



MAT 4119

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

41-Nb-91
0.000 To 0.012 %



35

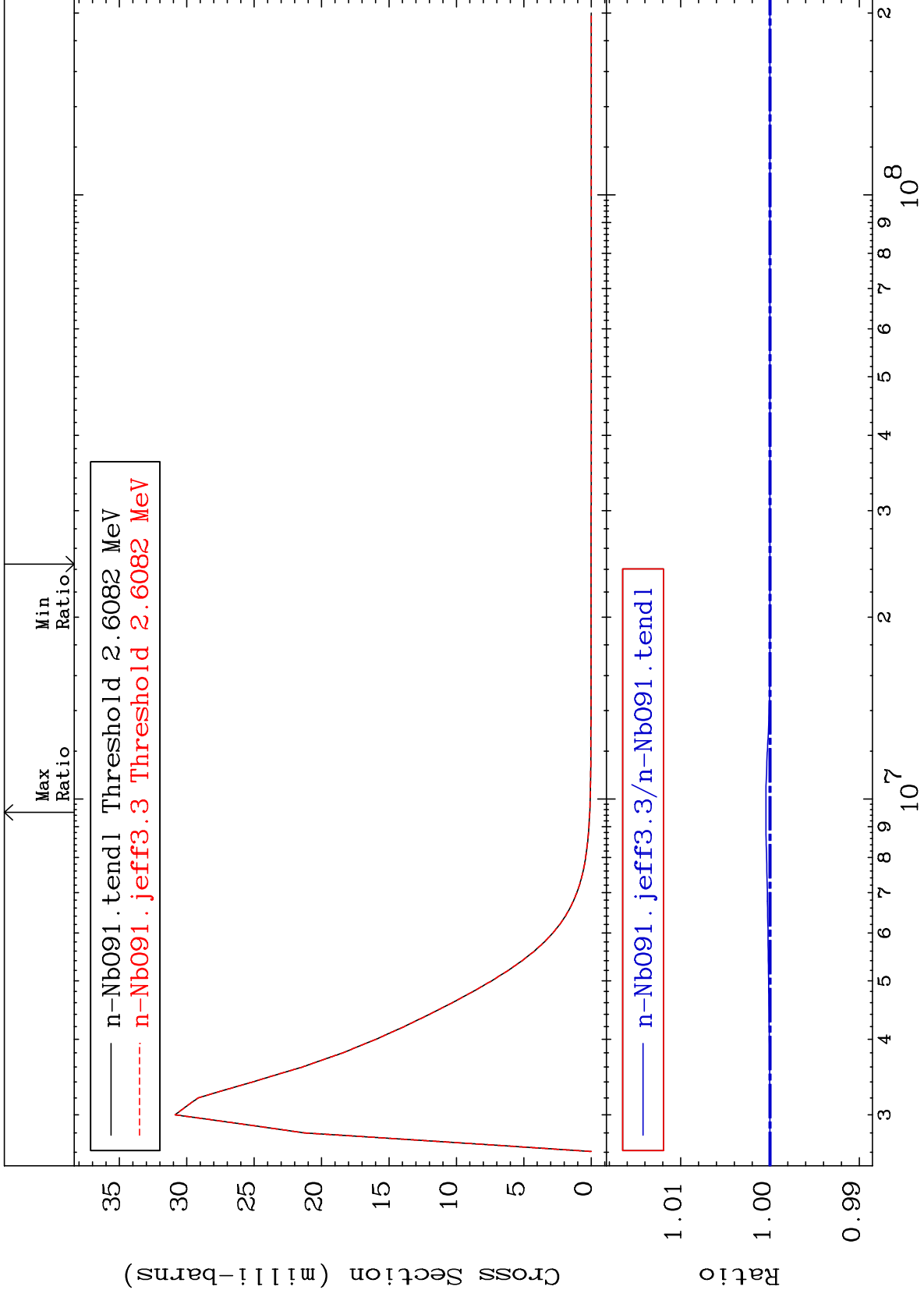
Incident Energy (eV)

41-Nb-91

MAT 4119

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

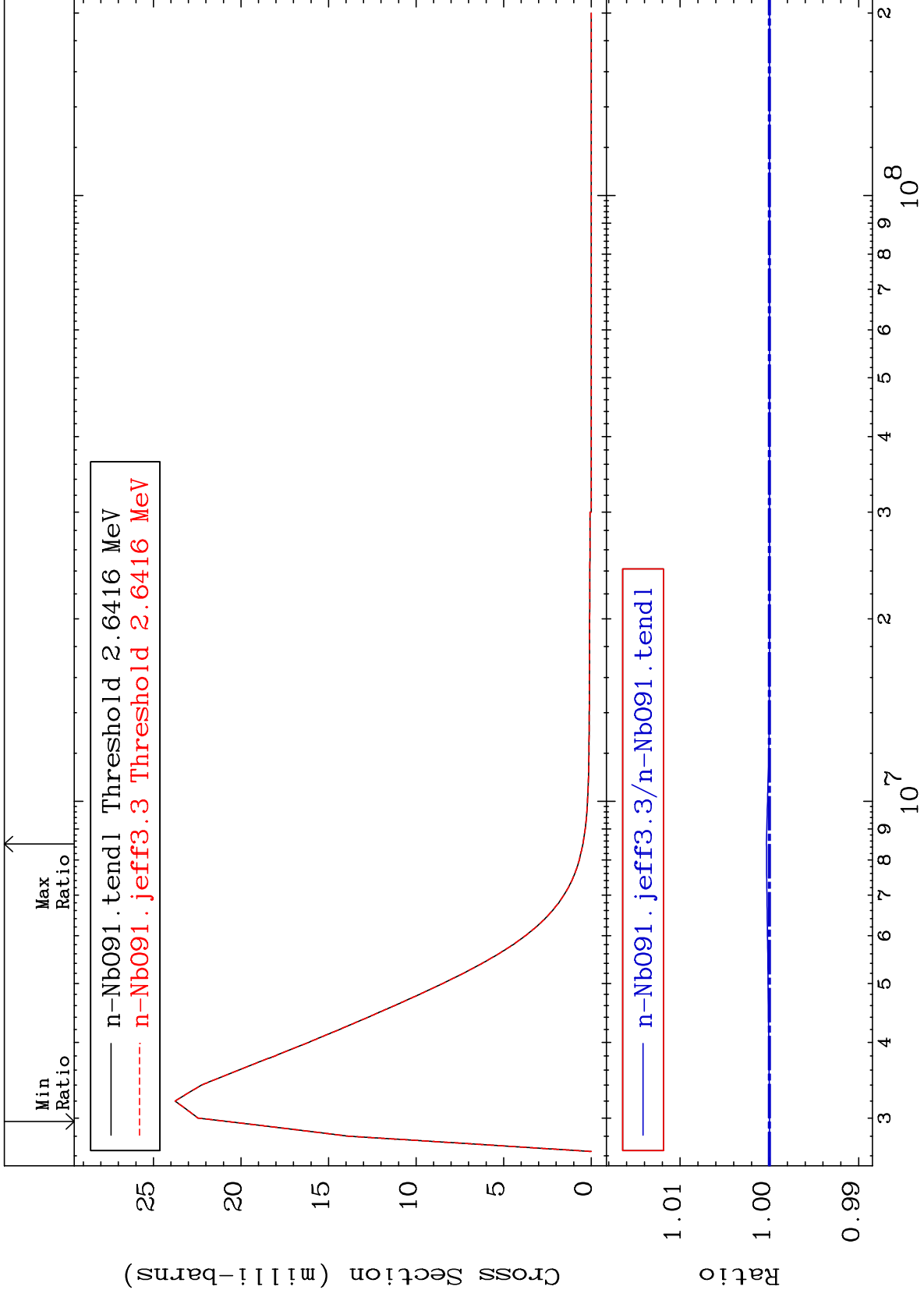
41-Nb-91
0.000 To 0.046 %



MAT 4119

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

41-Nb-91
0.000 To 0.033 %



37

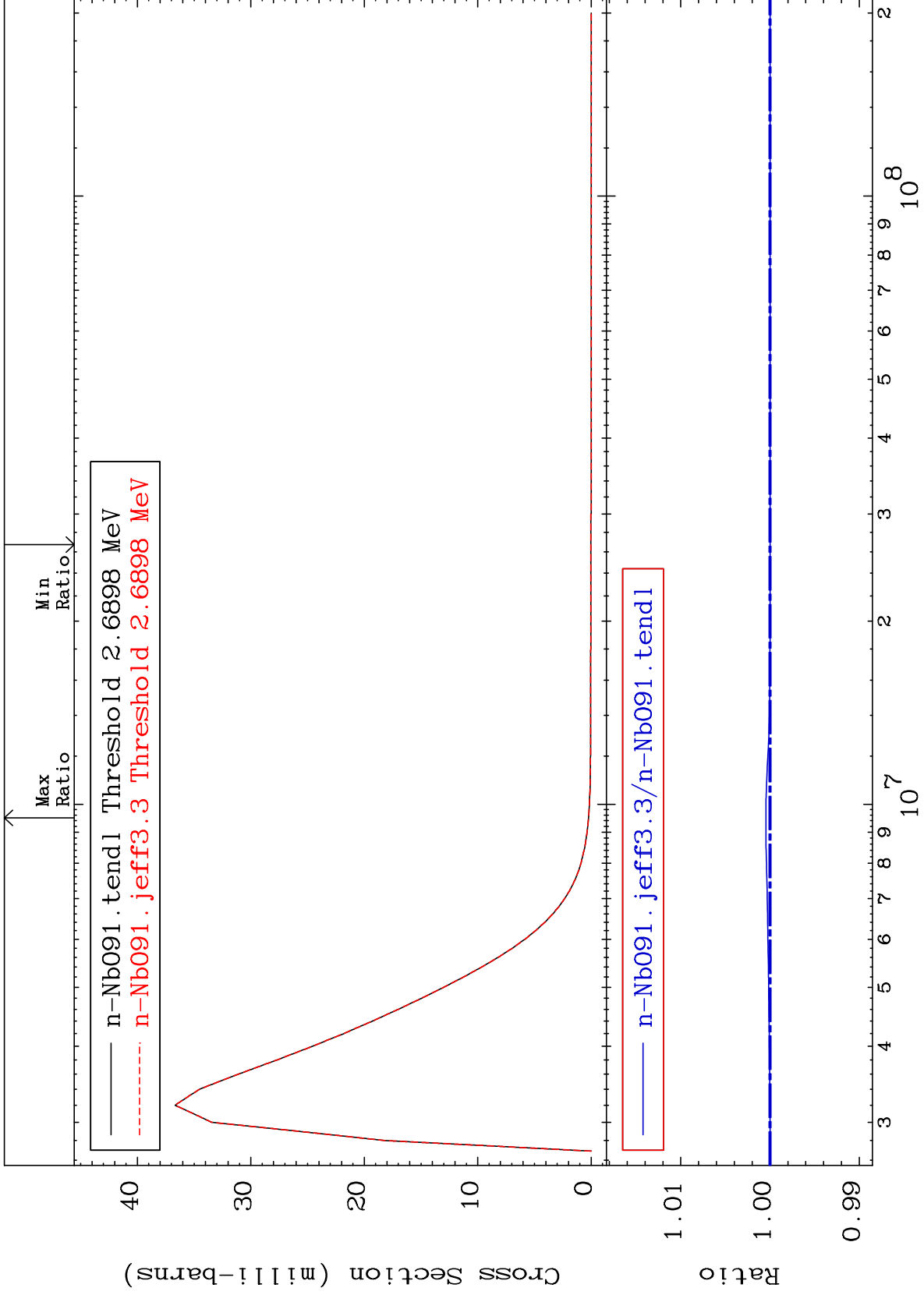
Incident Energy (eV)

41-Nb-91

MAT 4119

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

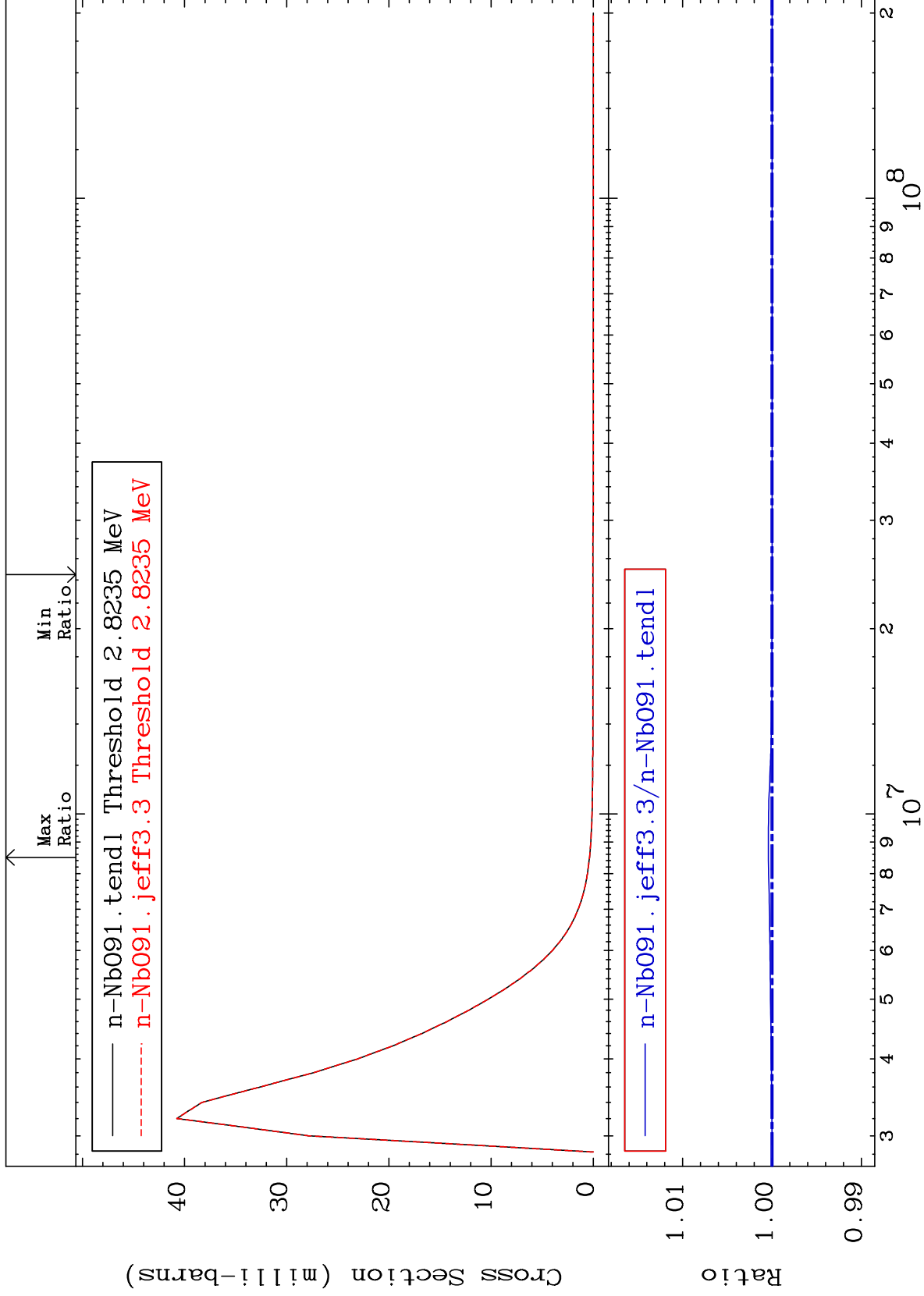
41-Nb-91
0.000 To 0.047 %



MAT 4119

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

41-Nb-91
0.000 To 0.041 %



39

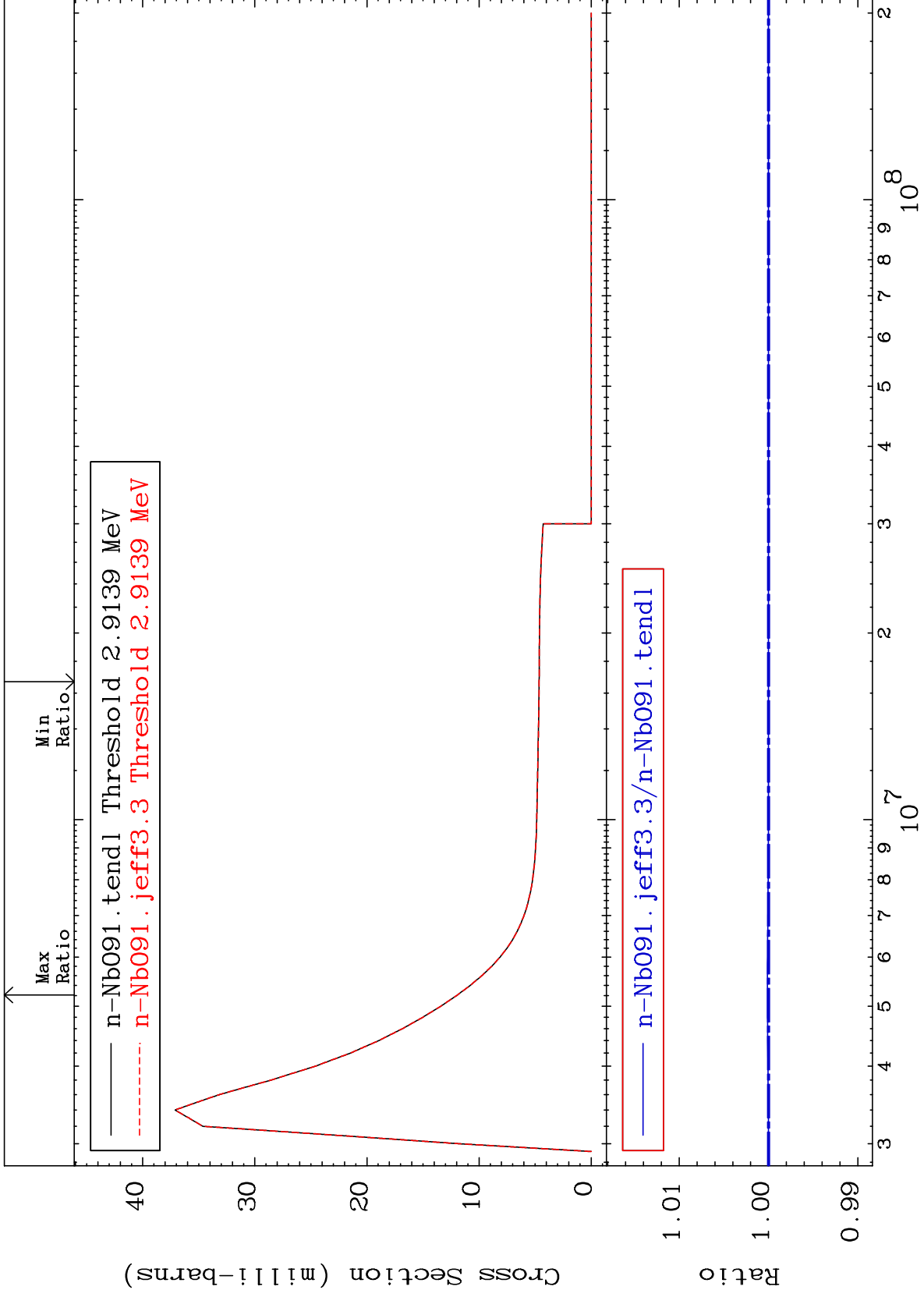
Incident Energy (eV)

41-Nb-91

MAT 4119

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

41-Nb-91
0.000 To 0.013 %



40

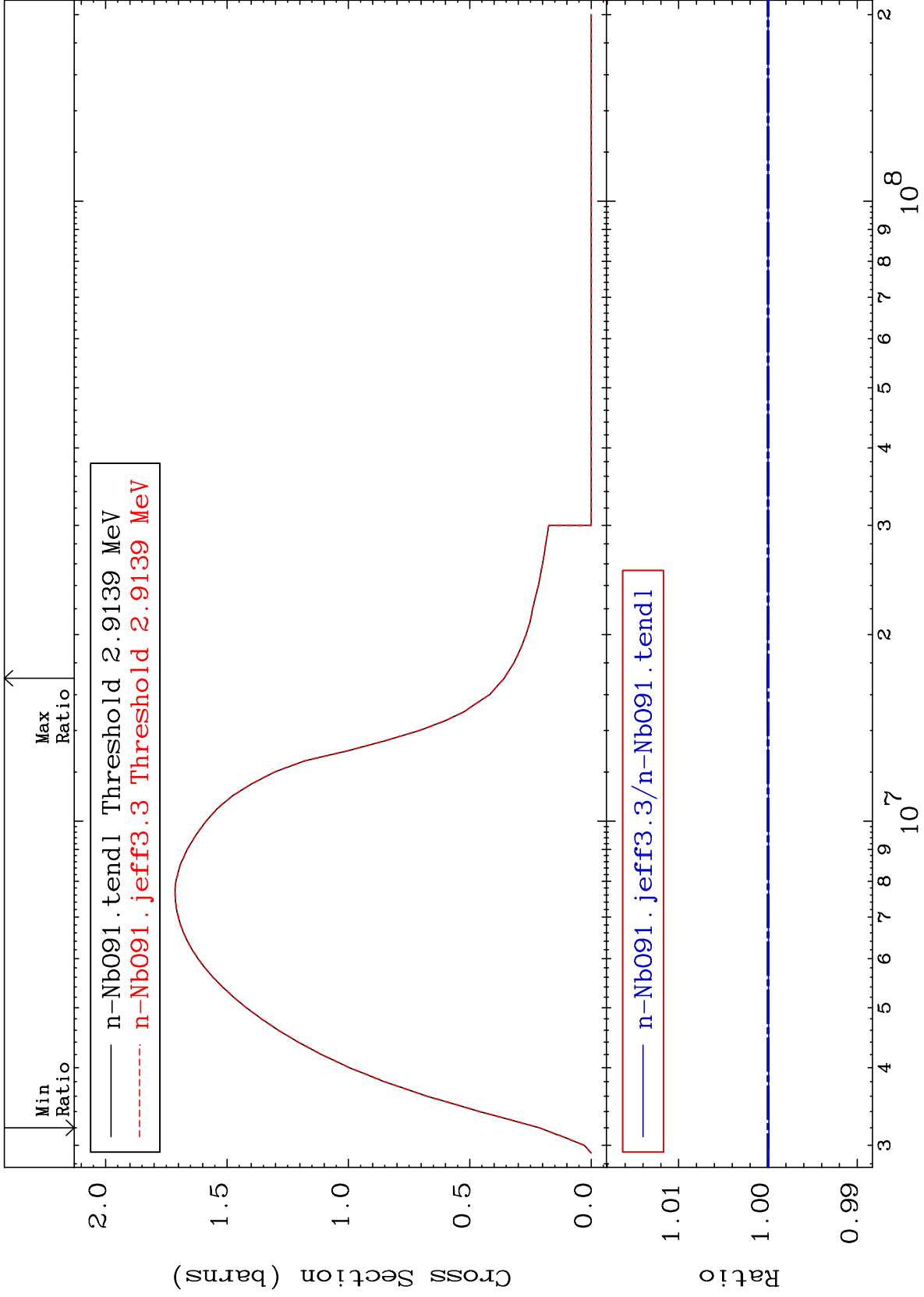
Incident Energy (eV)

41-Nb-91

MAT 4119

(n, n') Continuum
Cross Section

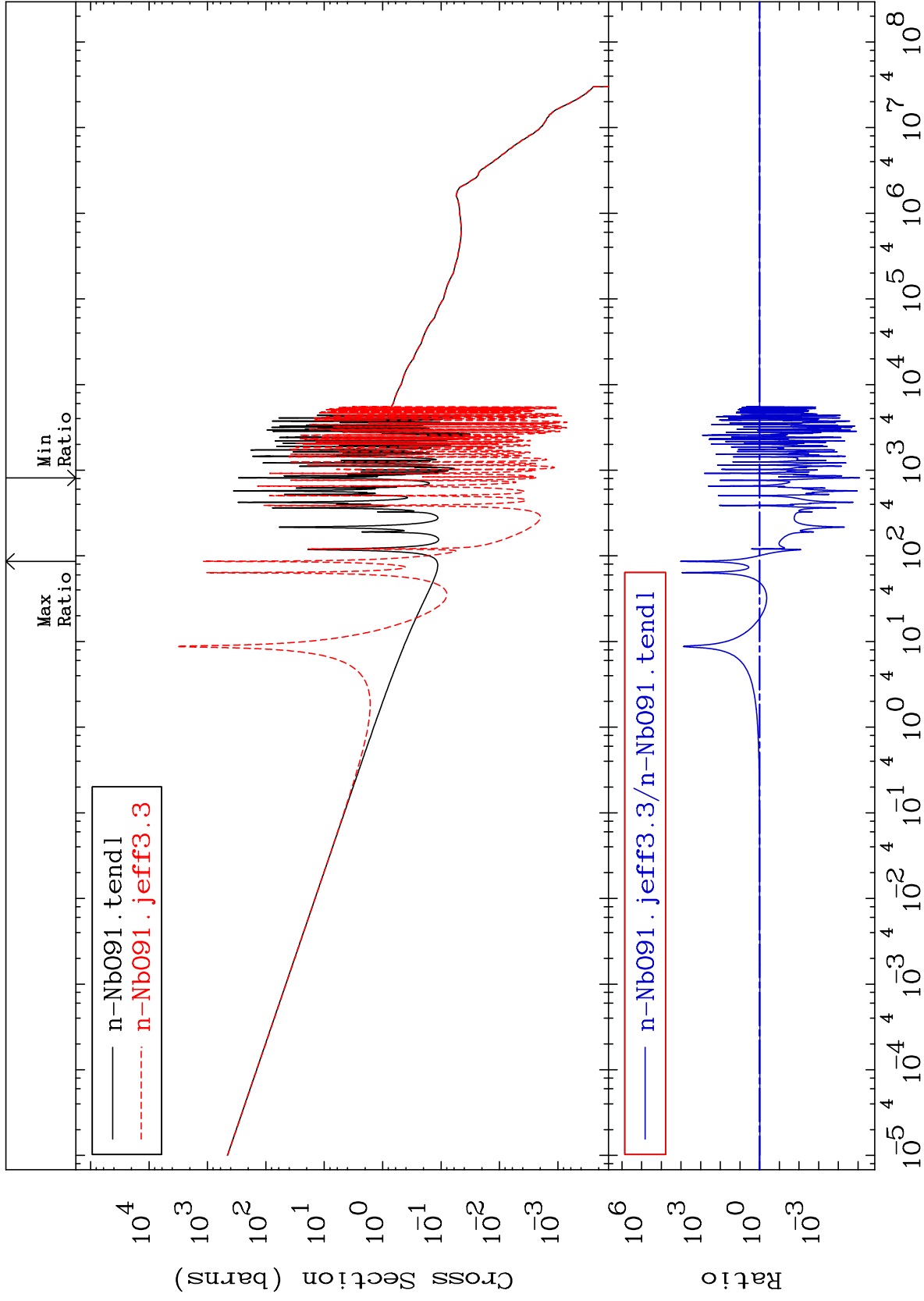
41-Nb-91
-0.010 To 0.011 %



MAT 4119

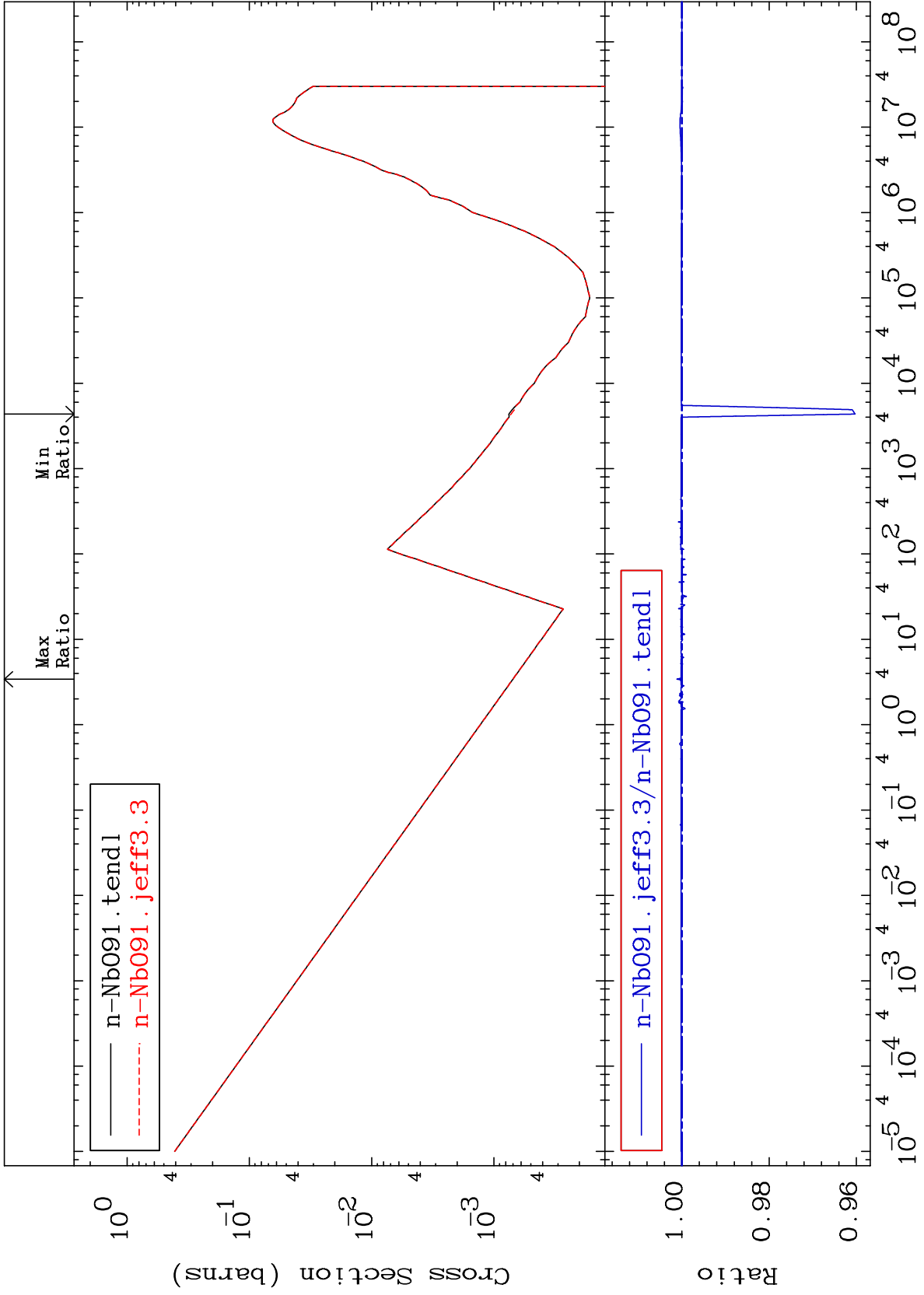
(n, γ)
Cross Section

41-Nb-91
-100.0 To 9999. %



MAT 4119

(n,p) Cross Section
41-Nb-91
-3.969 To 0.114 %



43

Incident Energy (eV)

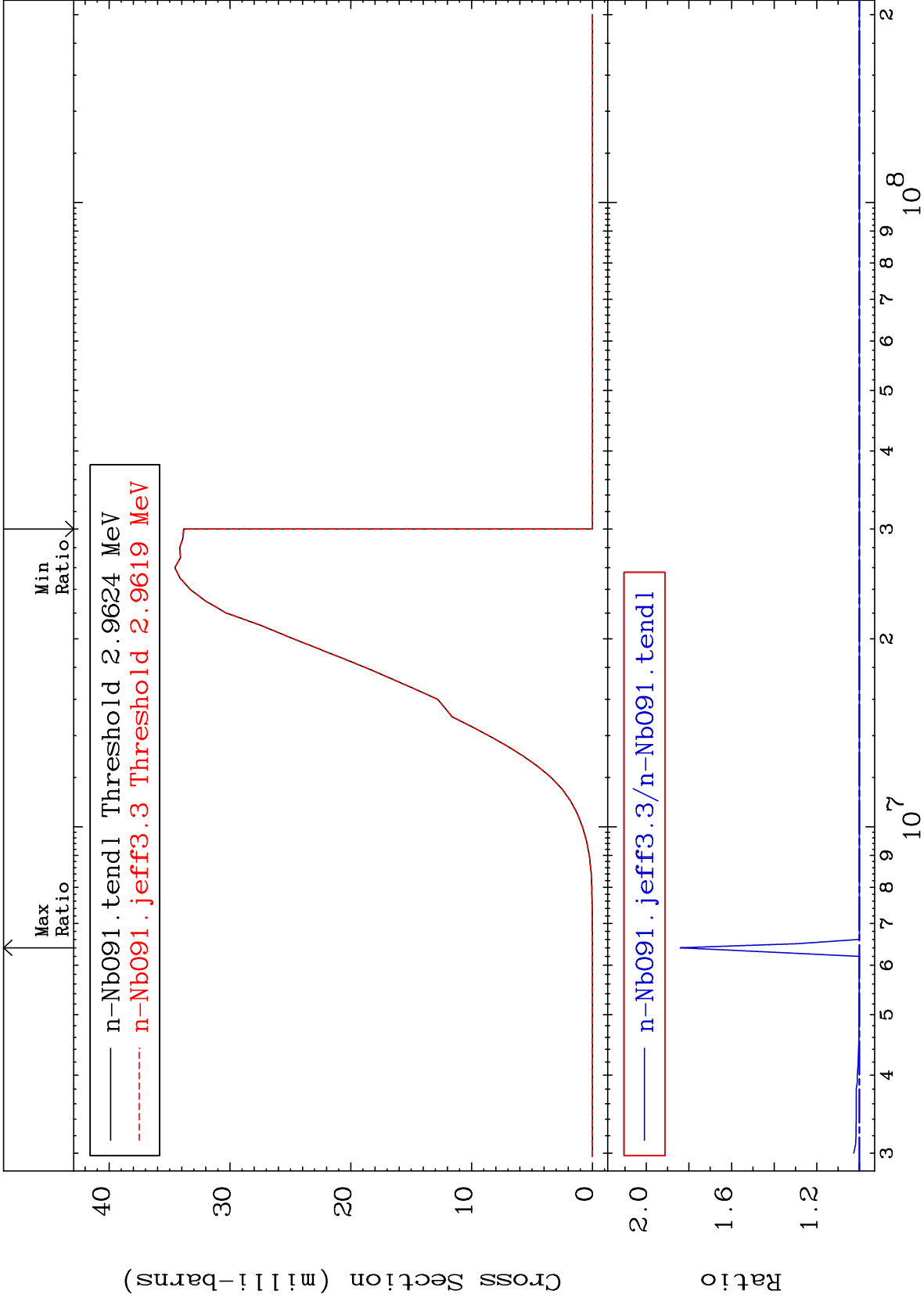
41-Nb-91

MAT 4119

41-Nb-91

0.000 To 84.13 %

(n, d)
Cross Section

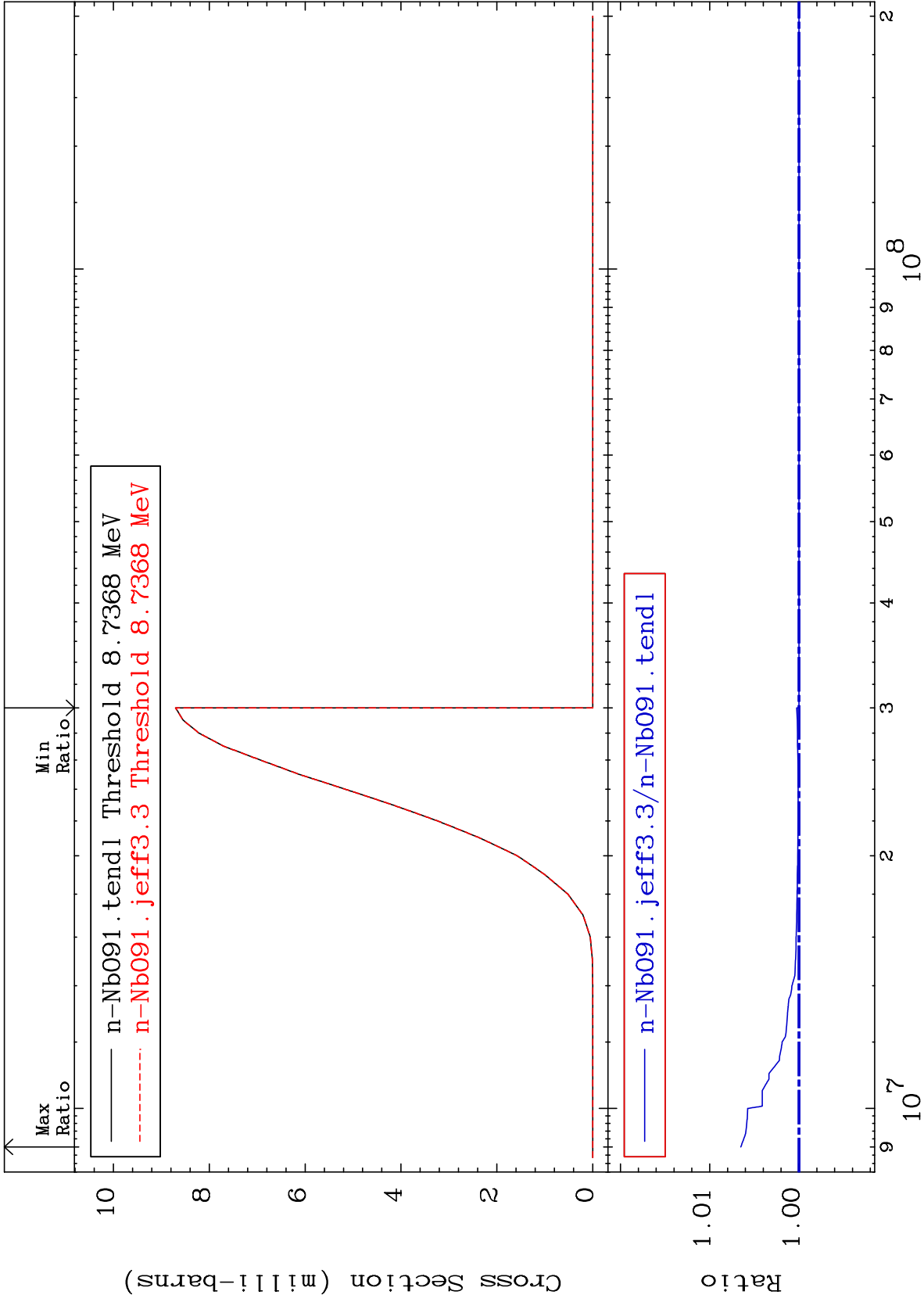


MAT 4119

41-Nb-91

(n, t)
Cross Section

0.000 To 0.652 %



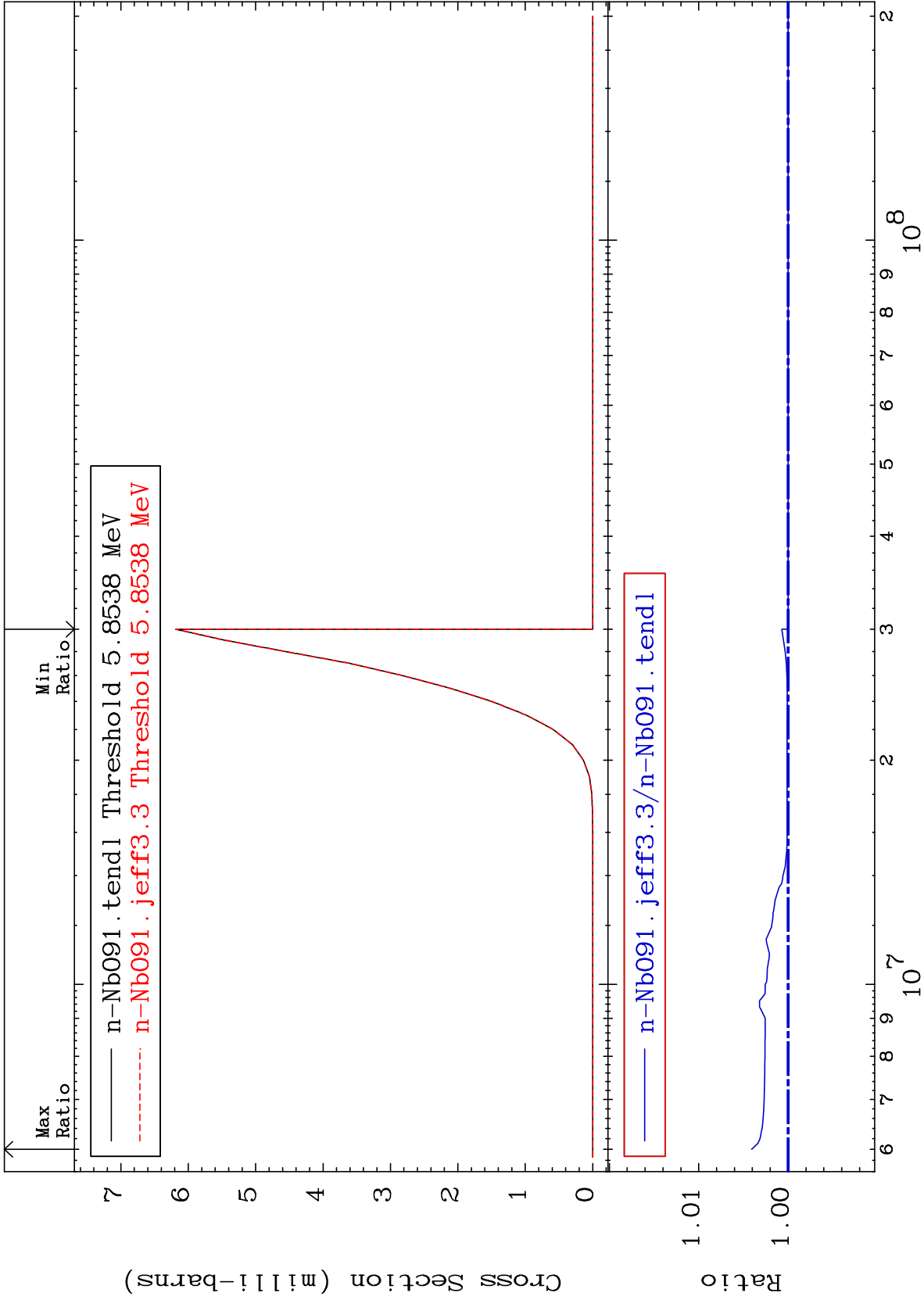
MAT 4119

(n,He-3)

41-Nb-91

Cross Section

To 0.407 %



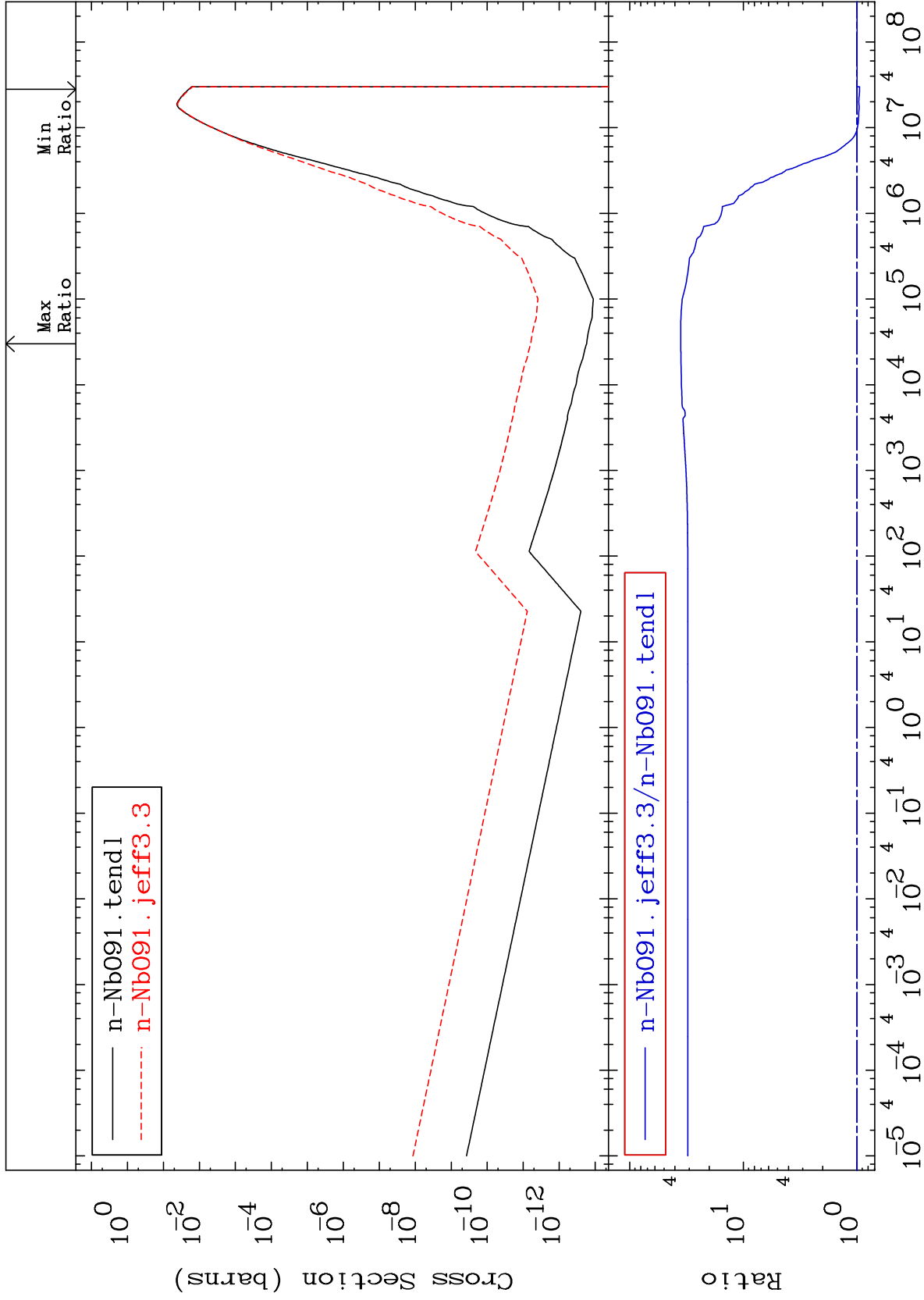
MAT 4119

(n, α)

41-Nb-91

Cross Section

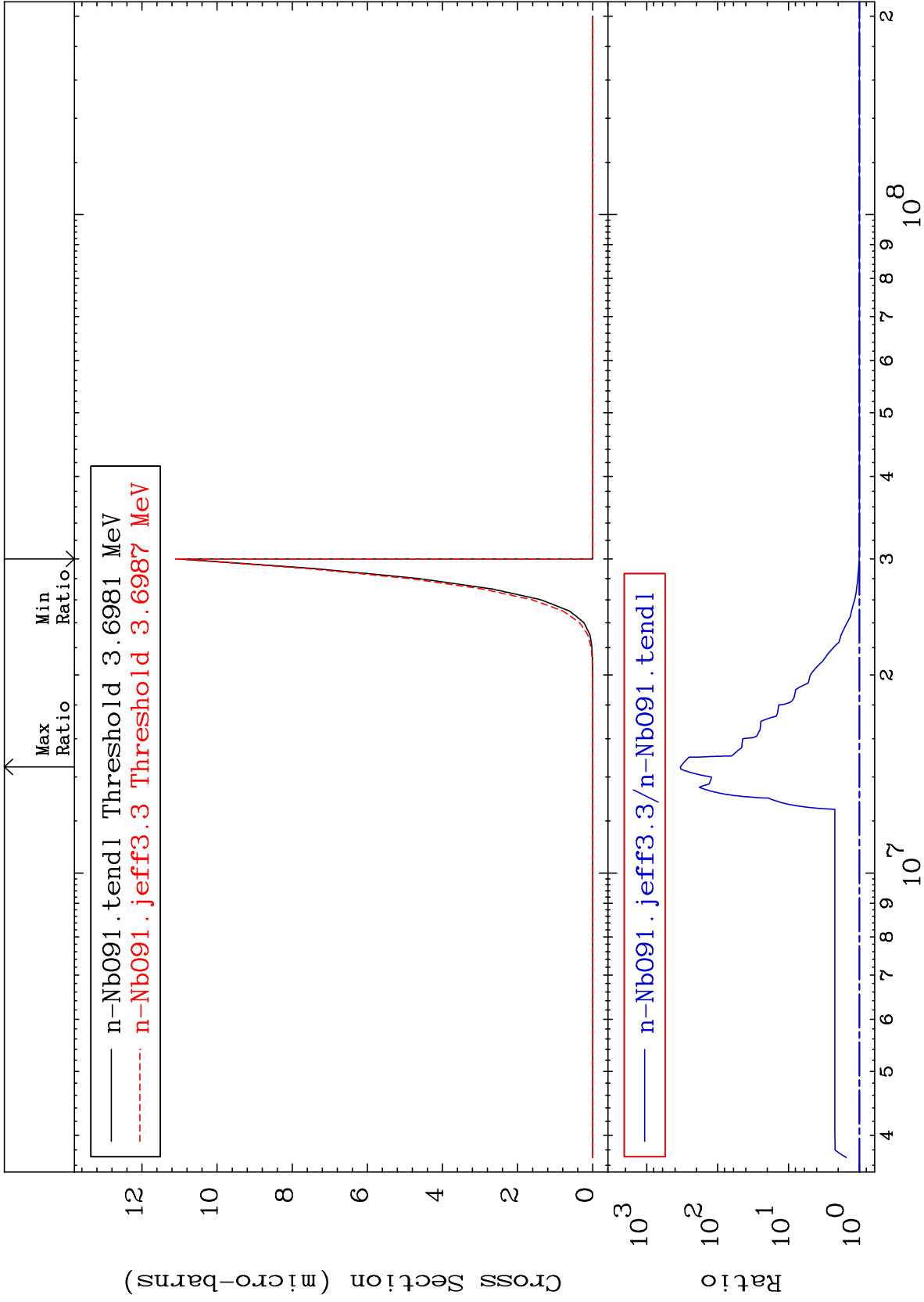
-5.094 To 3458. %



47

Incident Energy (eV)

41-Nb-91

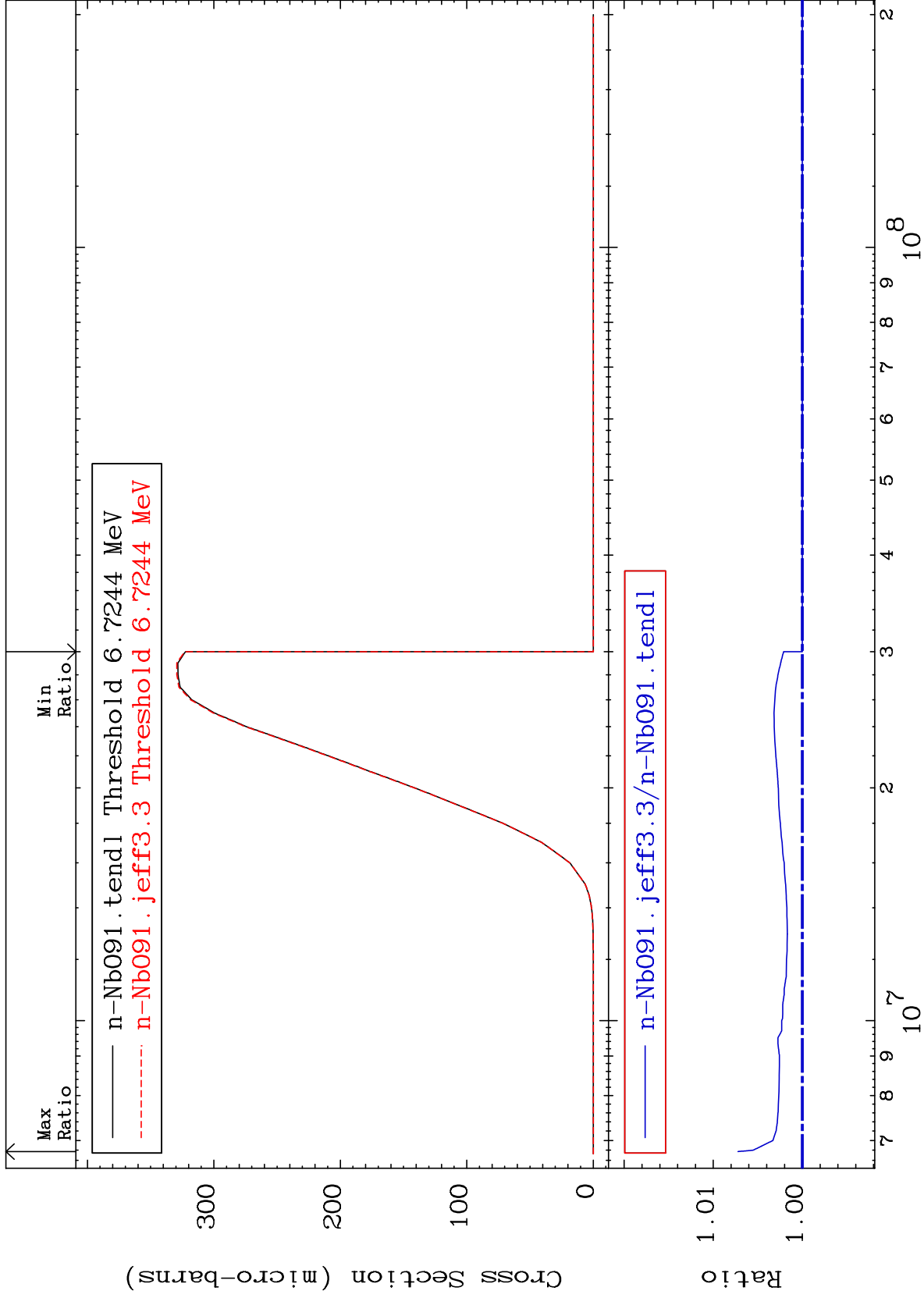


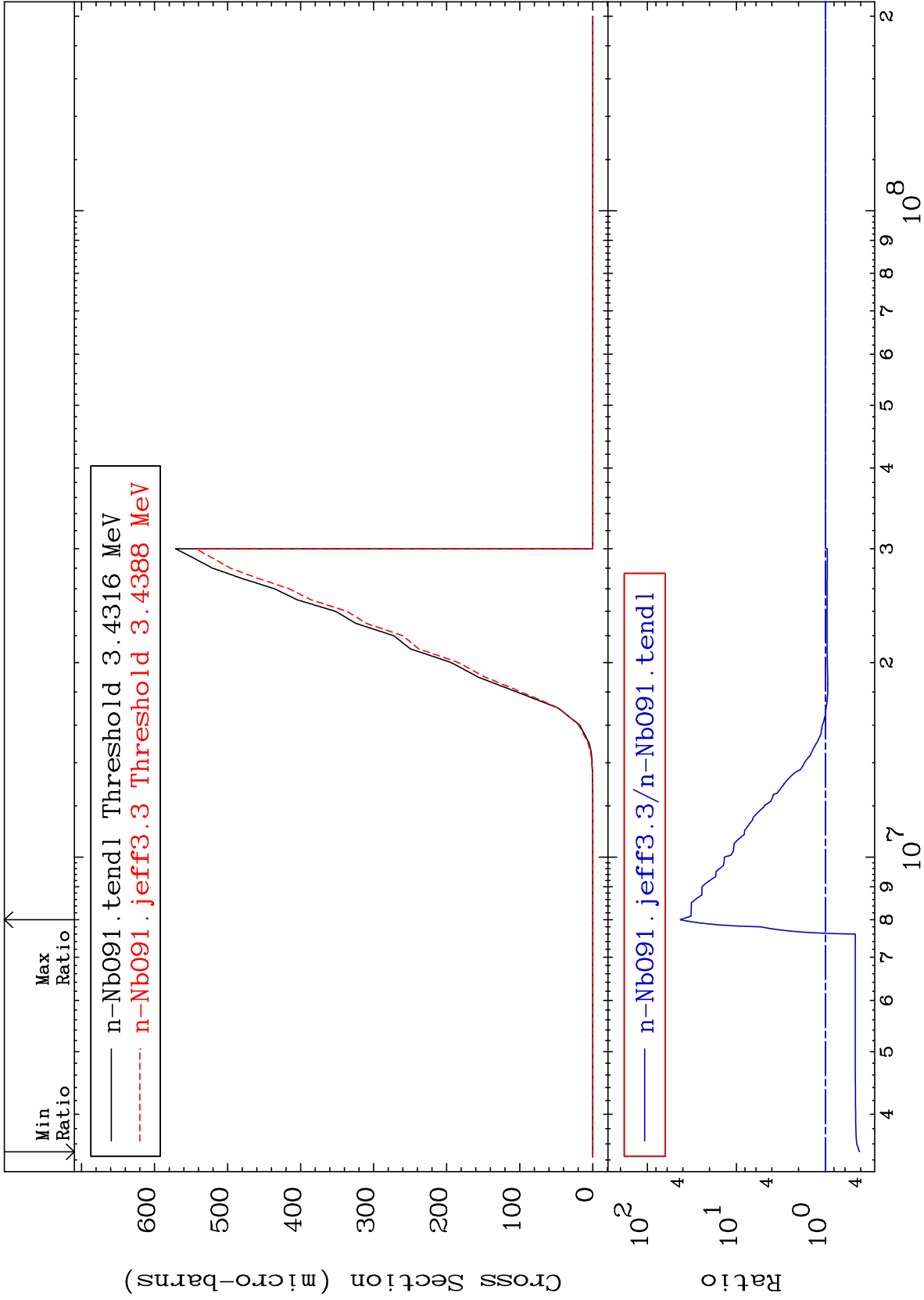
MAT 4119

41-Nb-91

(n,2p)
Cross Section

0.000 To 0.722 %





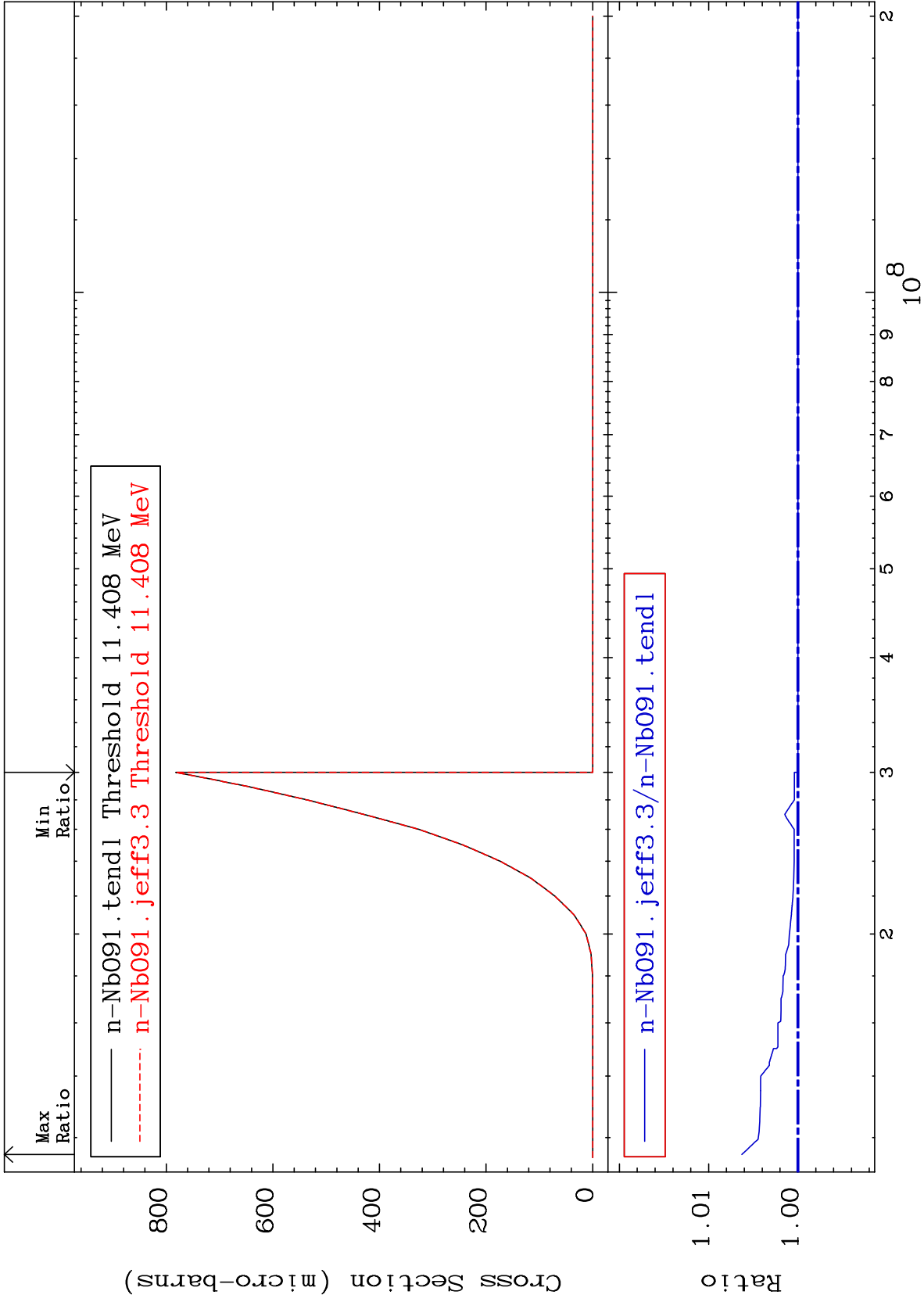
MAT 4119

(n, p) d

41-Nb-91

Cross Section

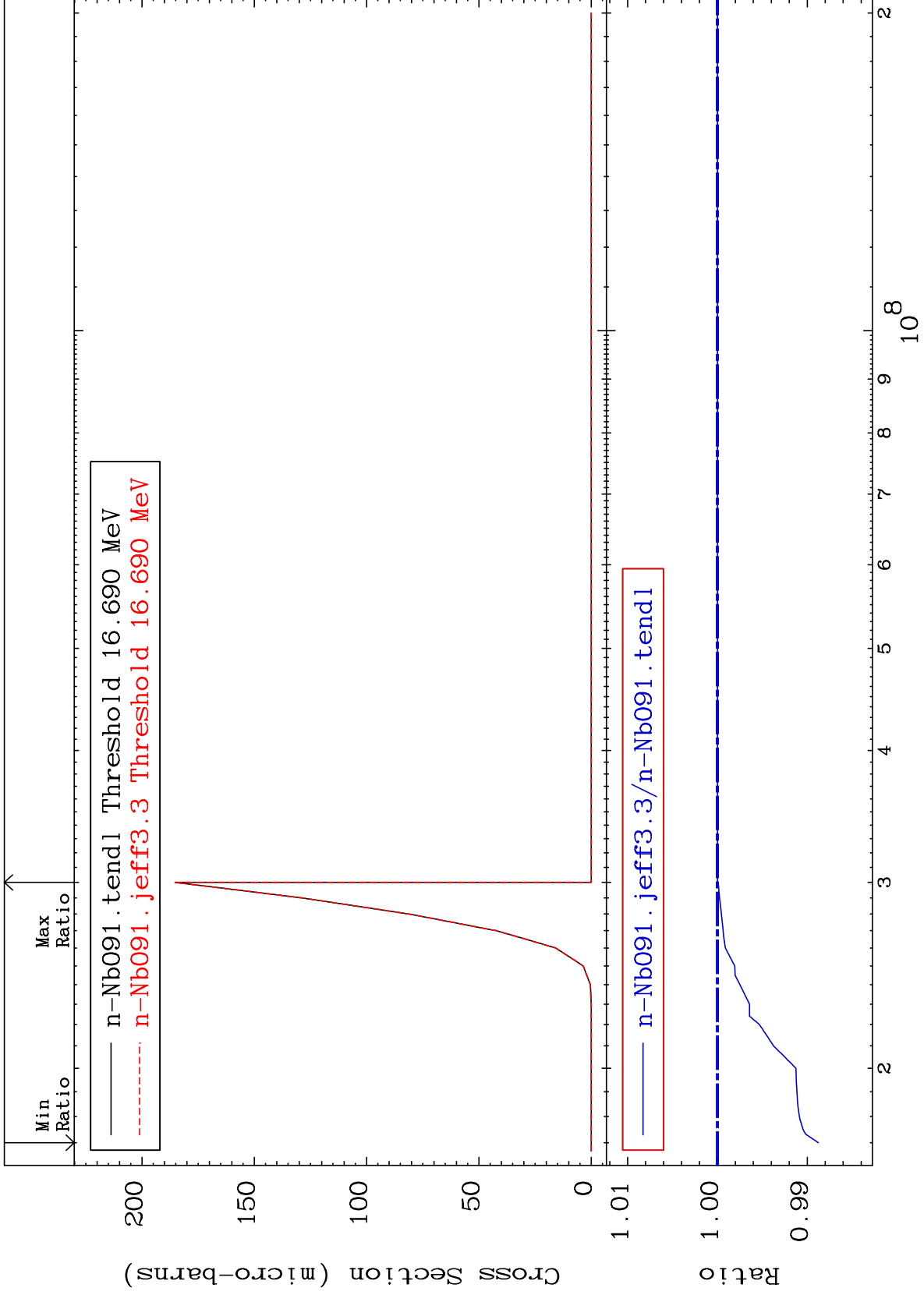
0.000 To 0.628 %



51

Incident Energy (eV)

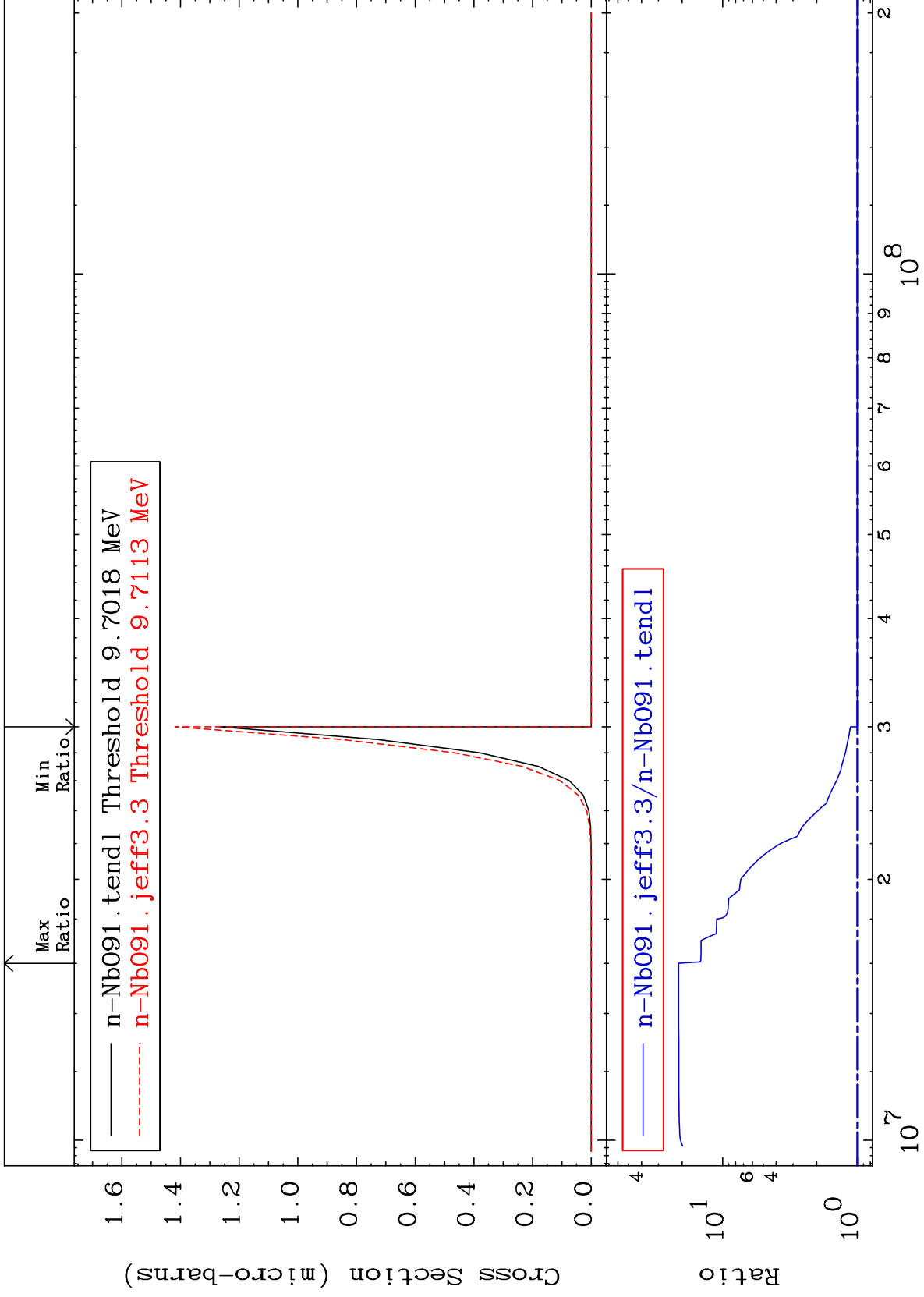
41-Nb-91



MAT 4119

(n, d) α
Cross Section

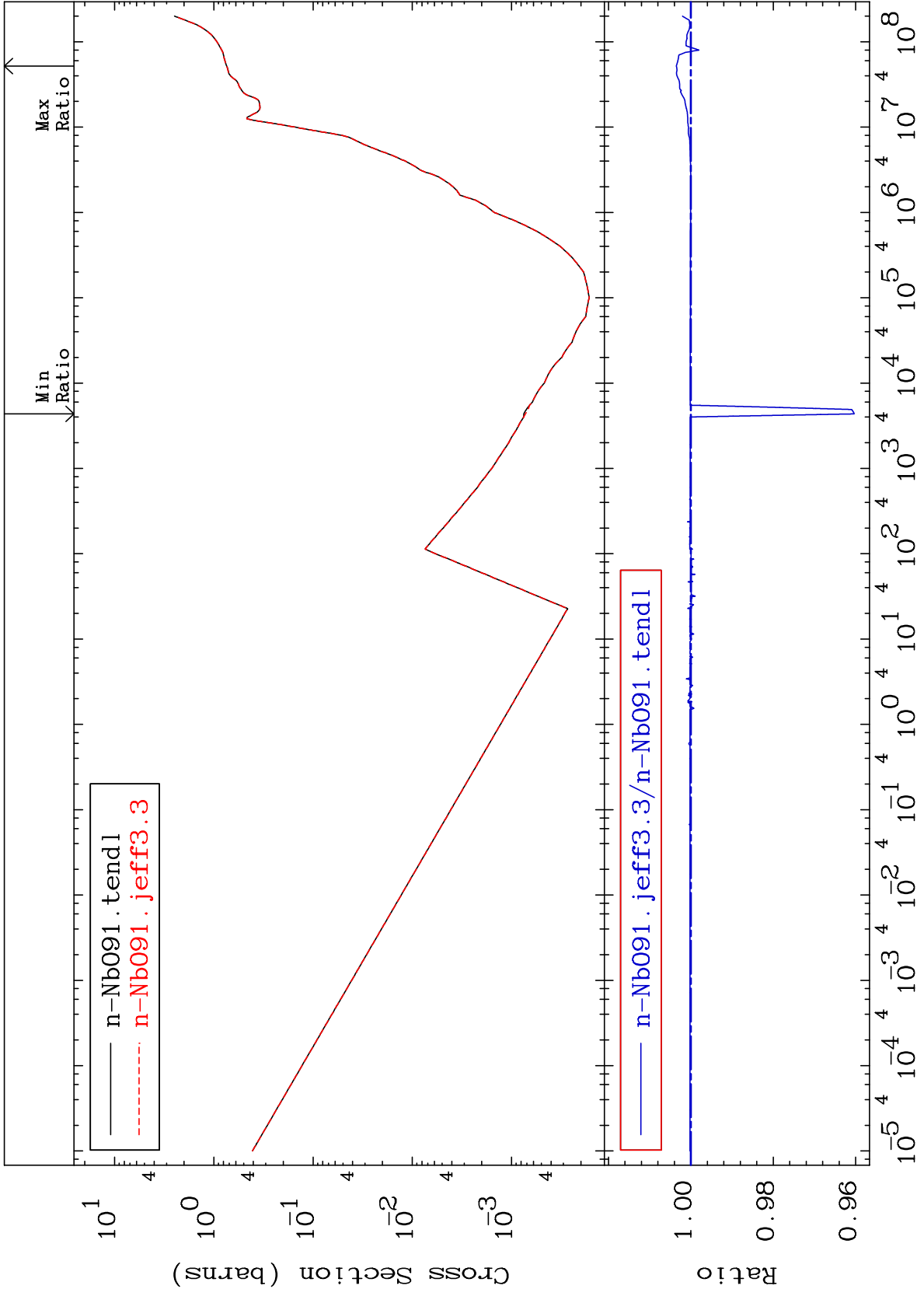
41-Nb-91
0.000 To 2021. %



53

Incident Energy (eV)

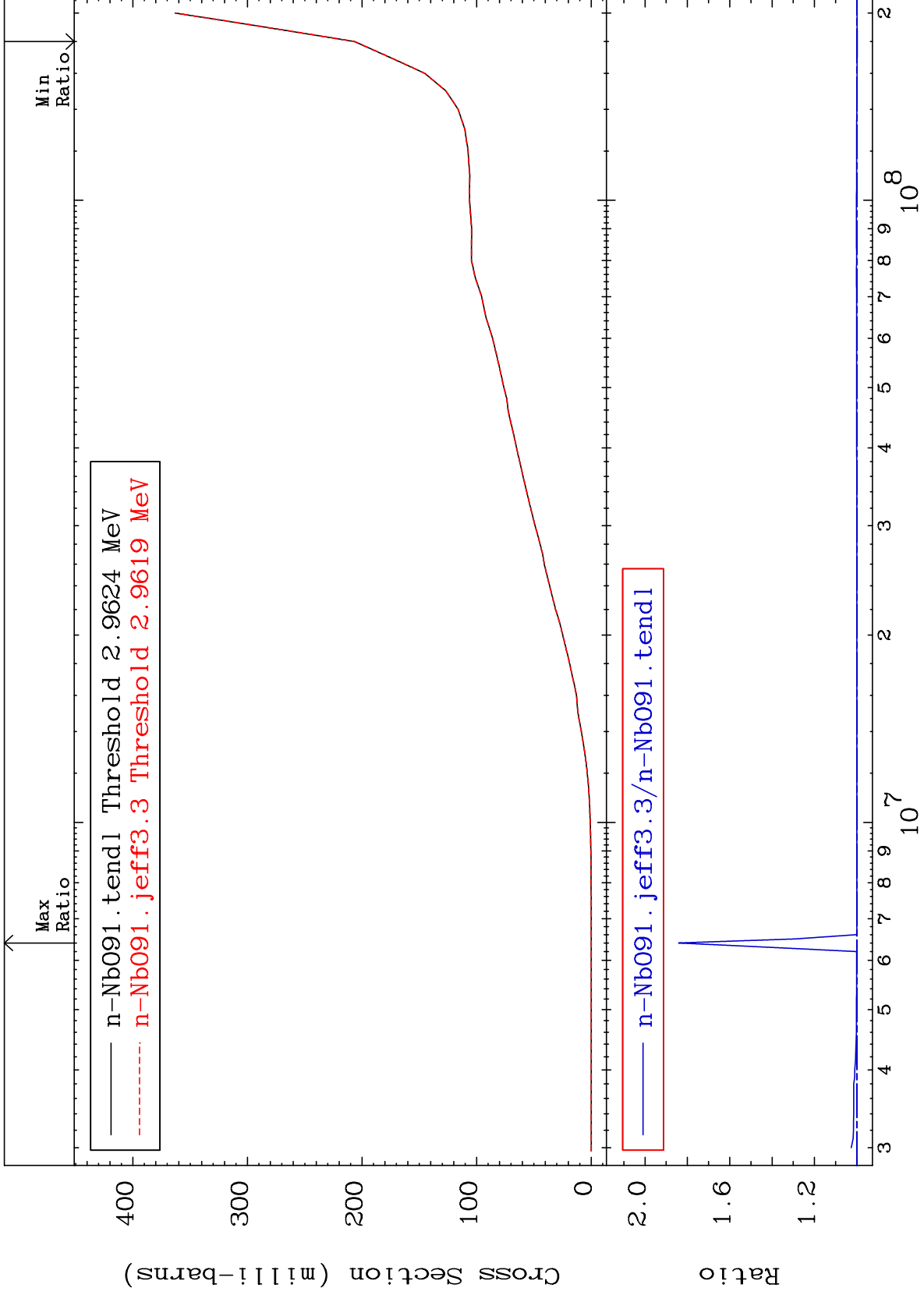
41-Nb-91



MAT 4119

Deuterium Production
Cross Section

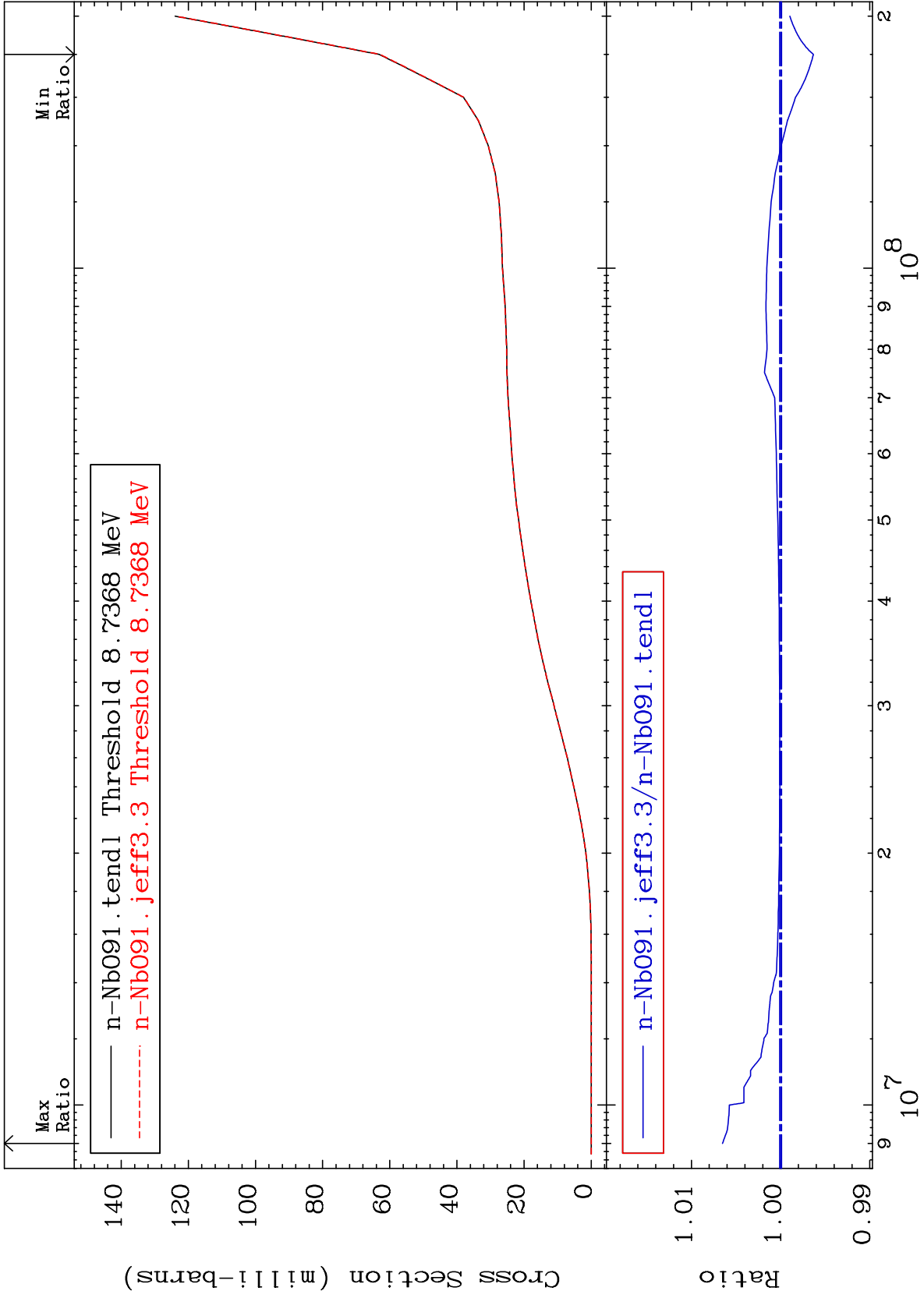
41-Nb-91
-0.207 To 84.13 %



MAT 4119

Tritium Production
Cross Section

41-Nb-91
-0.367 To 0.652 %



56

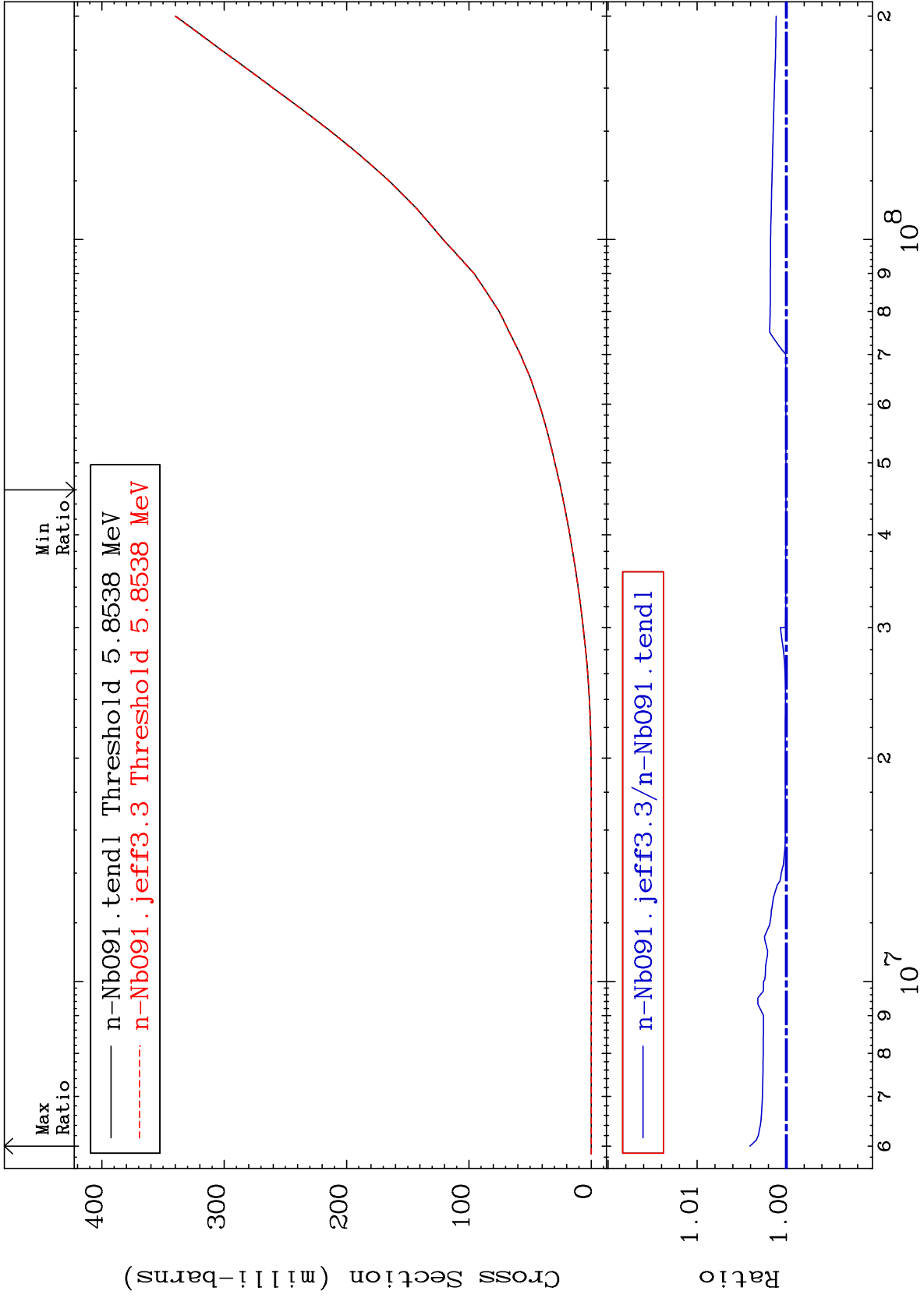
Incident Energy (eV)

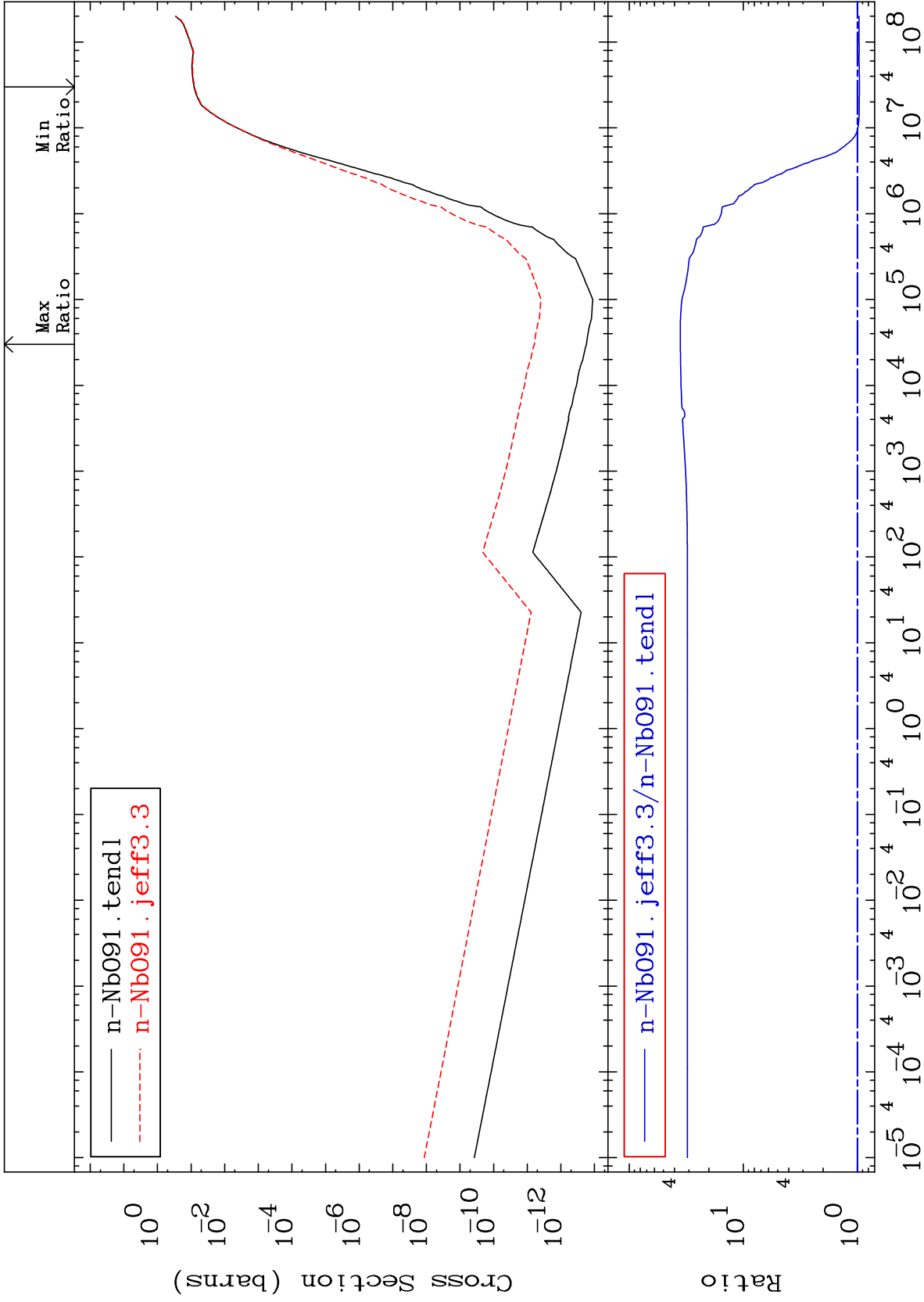
41-Nb-91

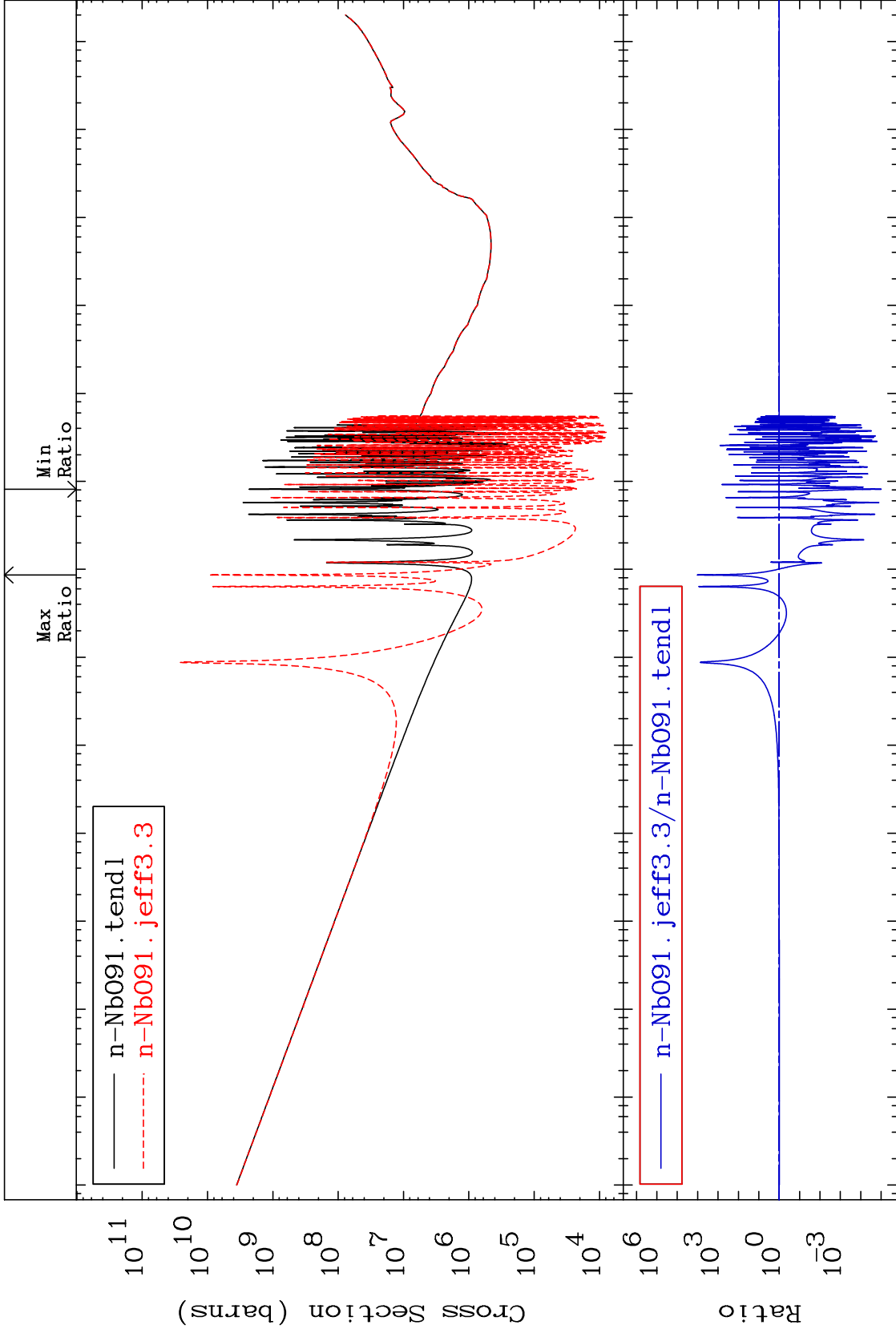
MAT 4119

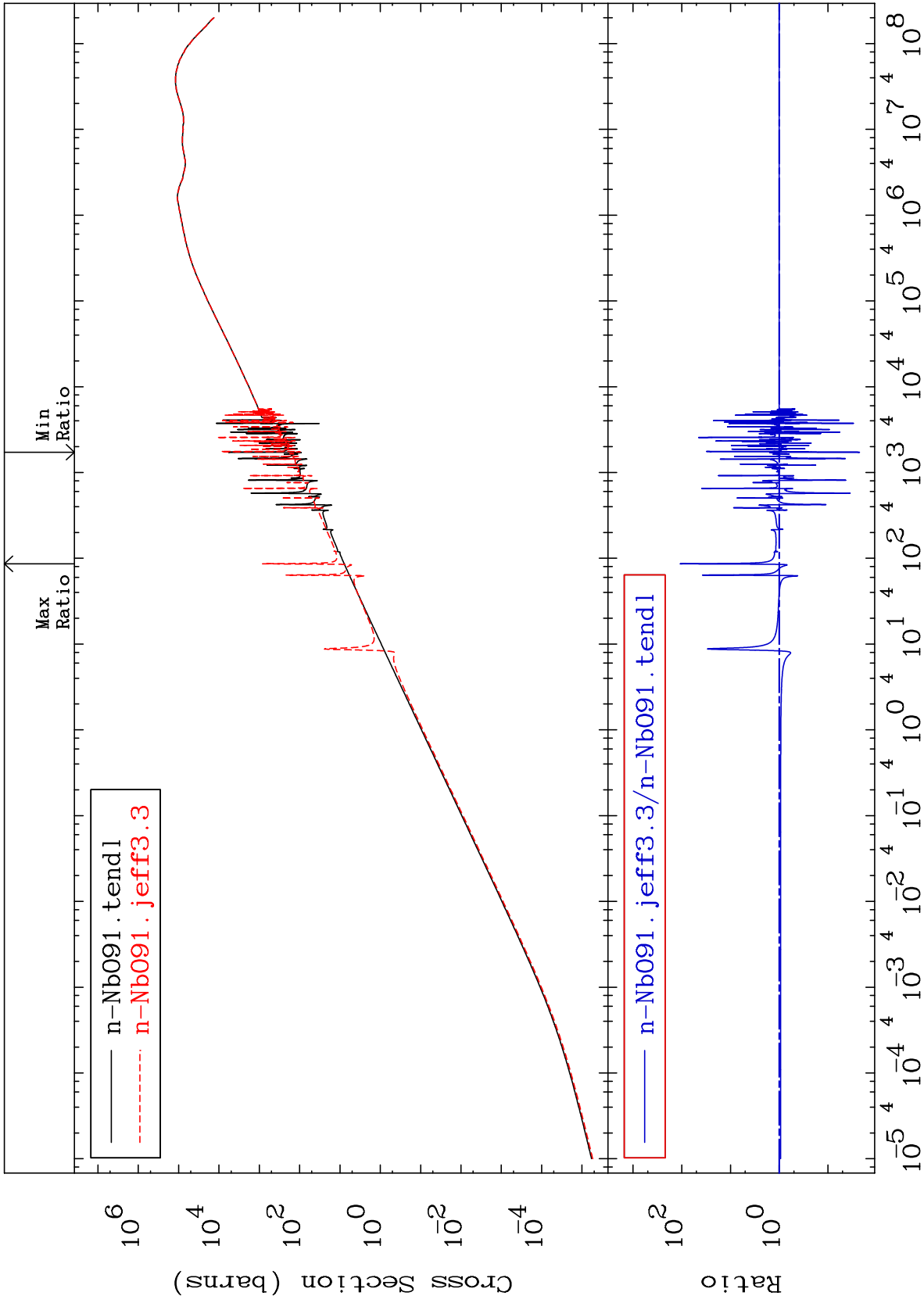
He-3 Production
Cross Section

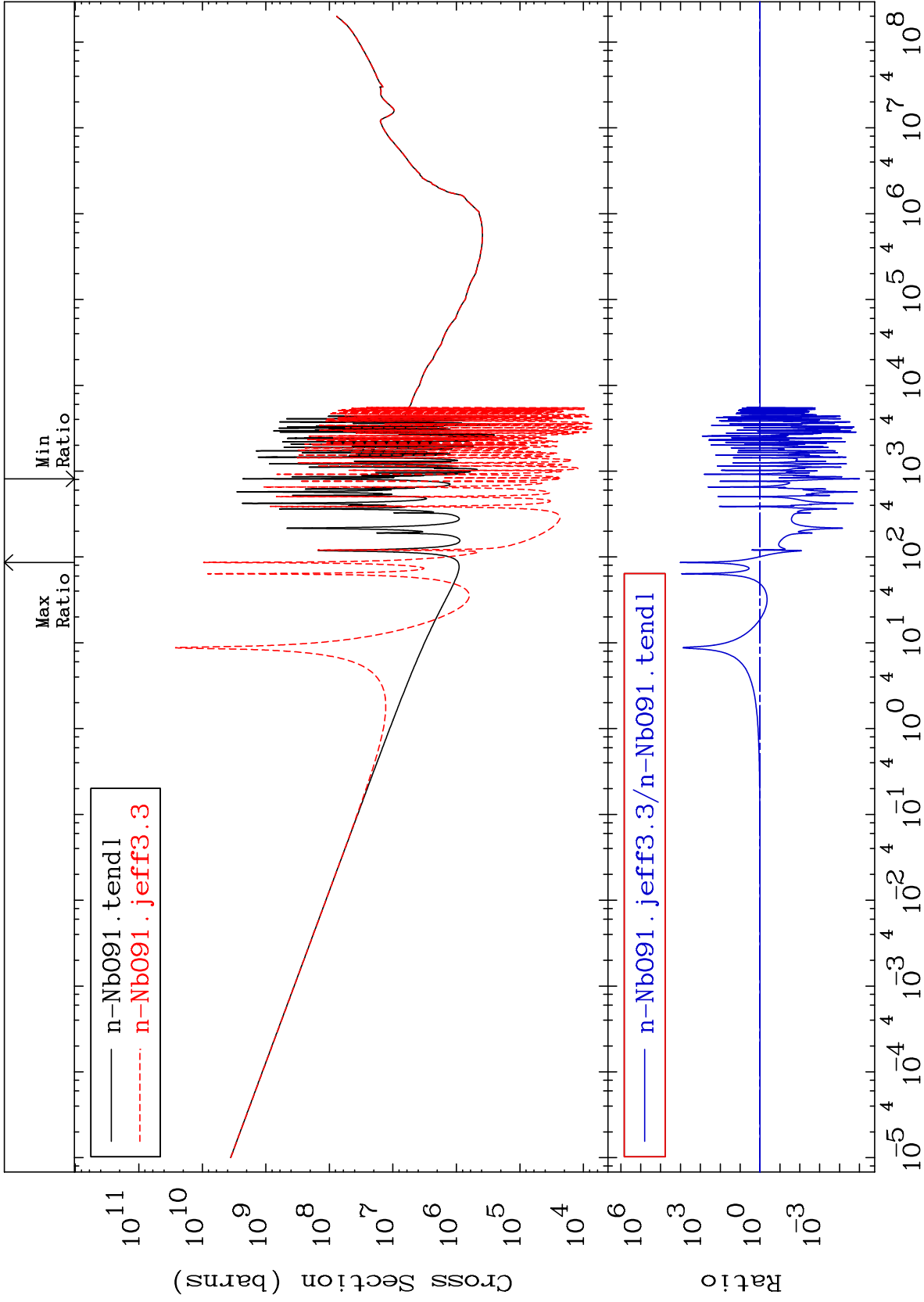
41-Nb-91
To 0.407 %







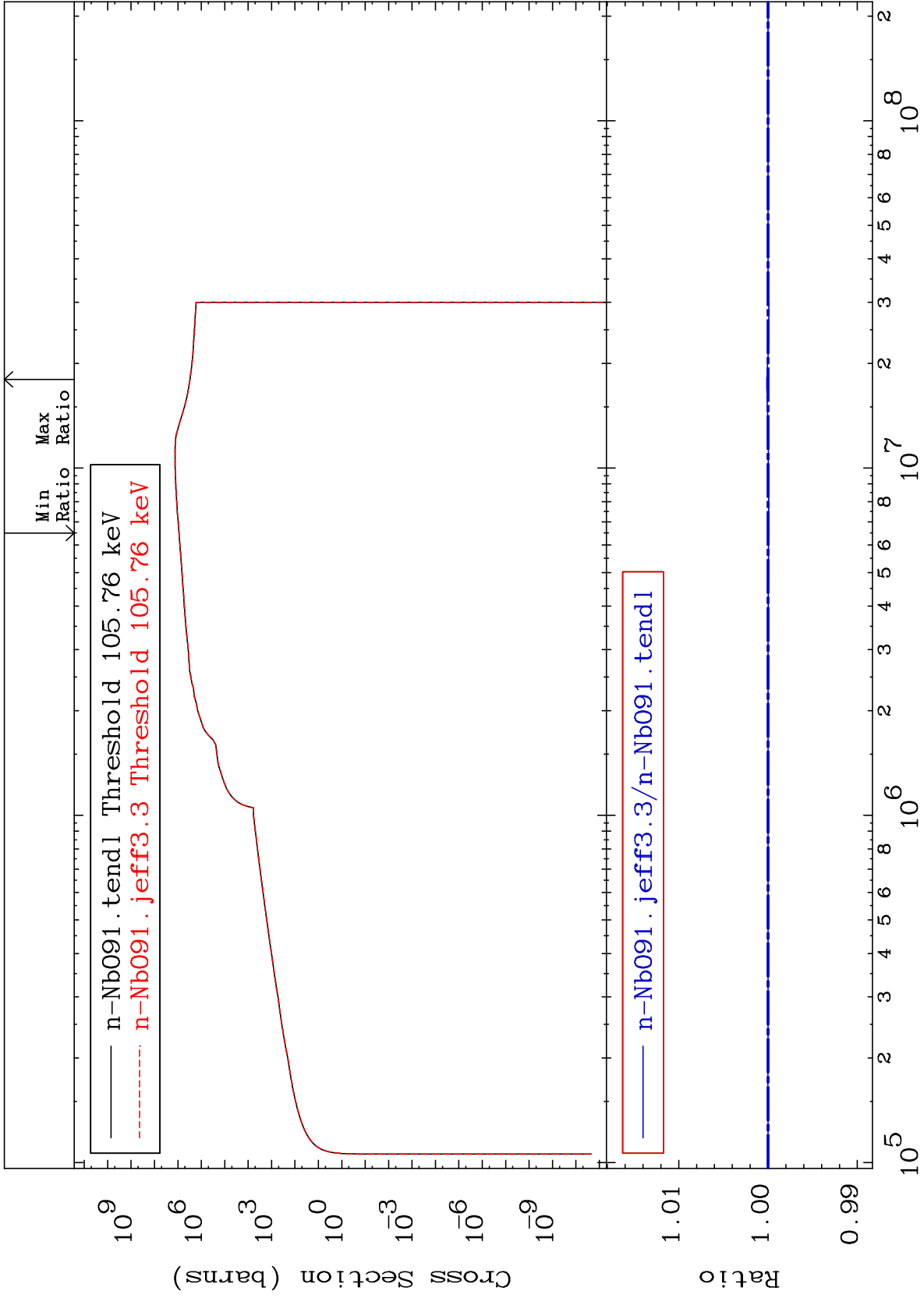




MAT 4119

Kerma inelastic (mt51-91)
Cross Section

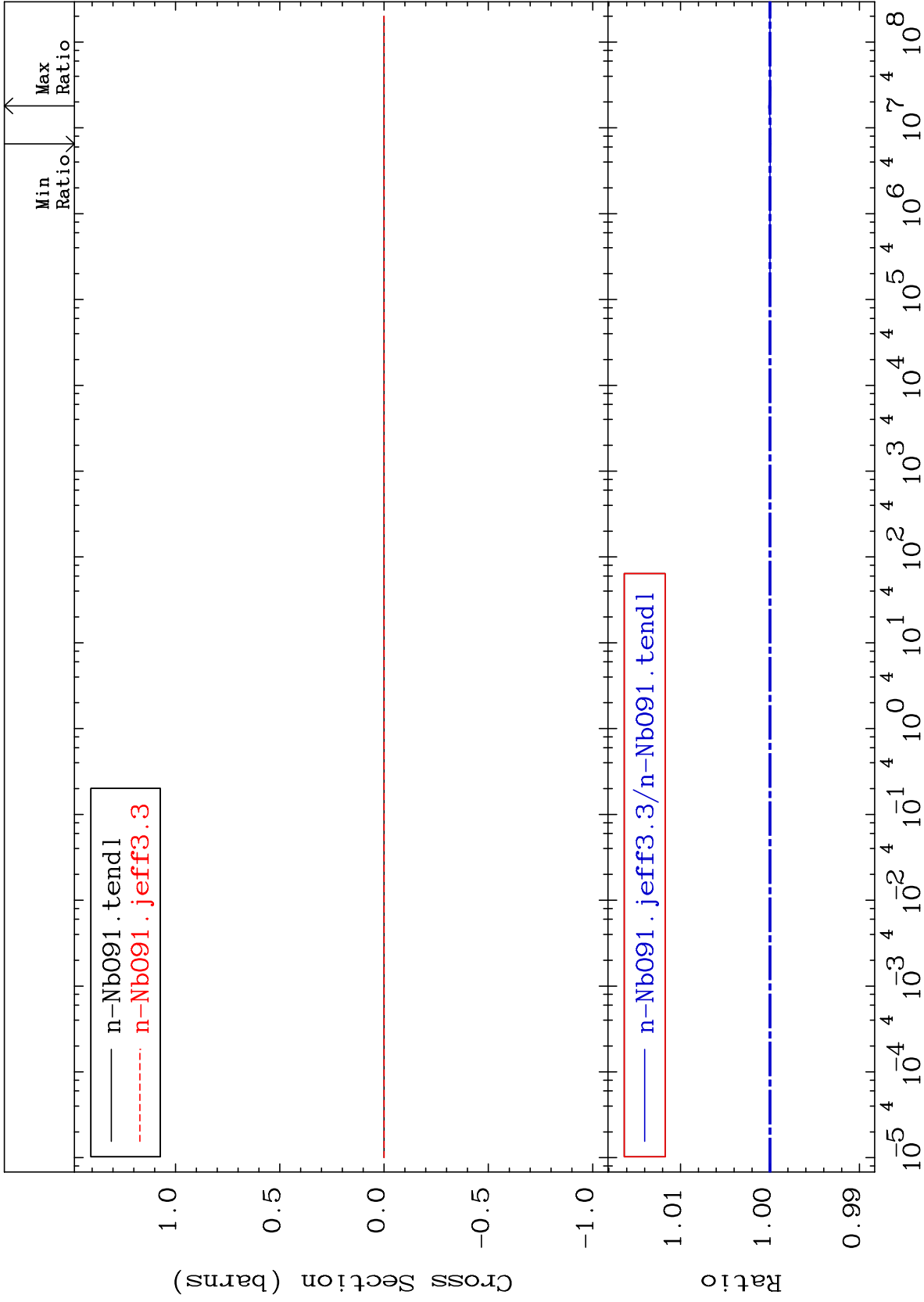
41-Nb-91
-0.012 To 0.014 %

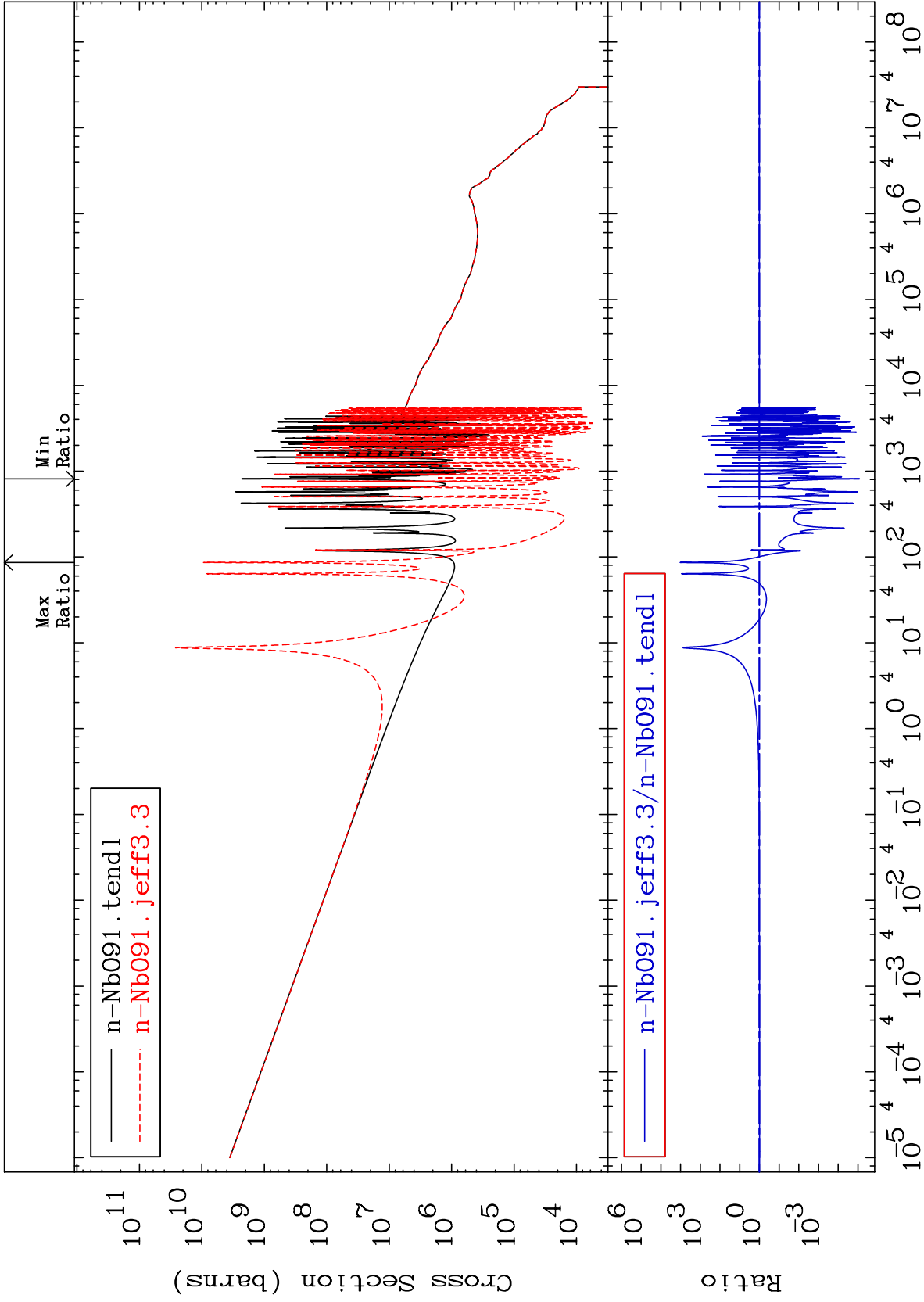


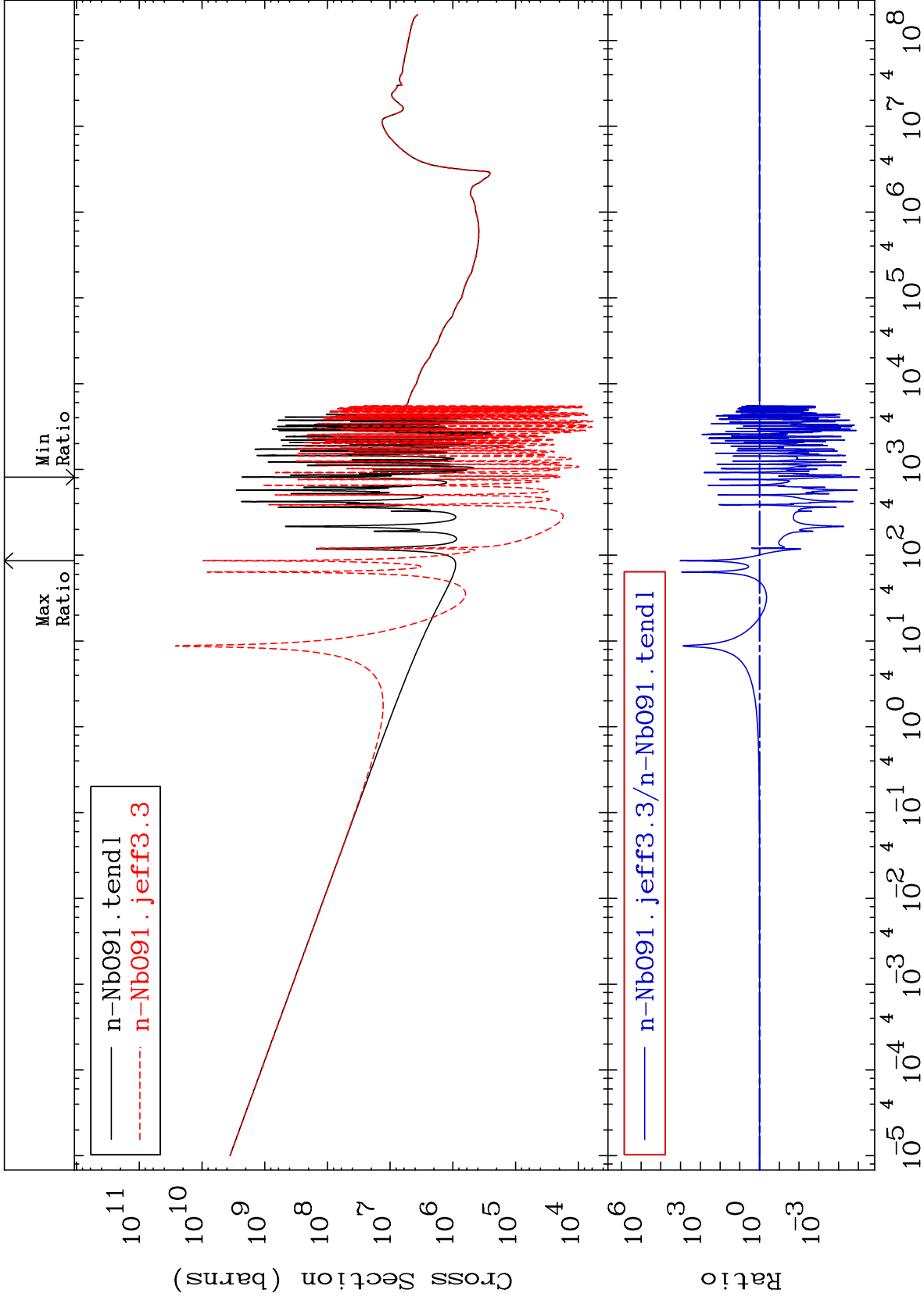
62

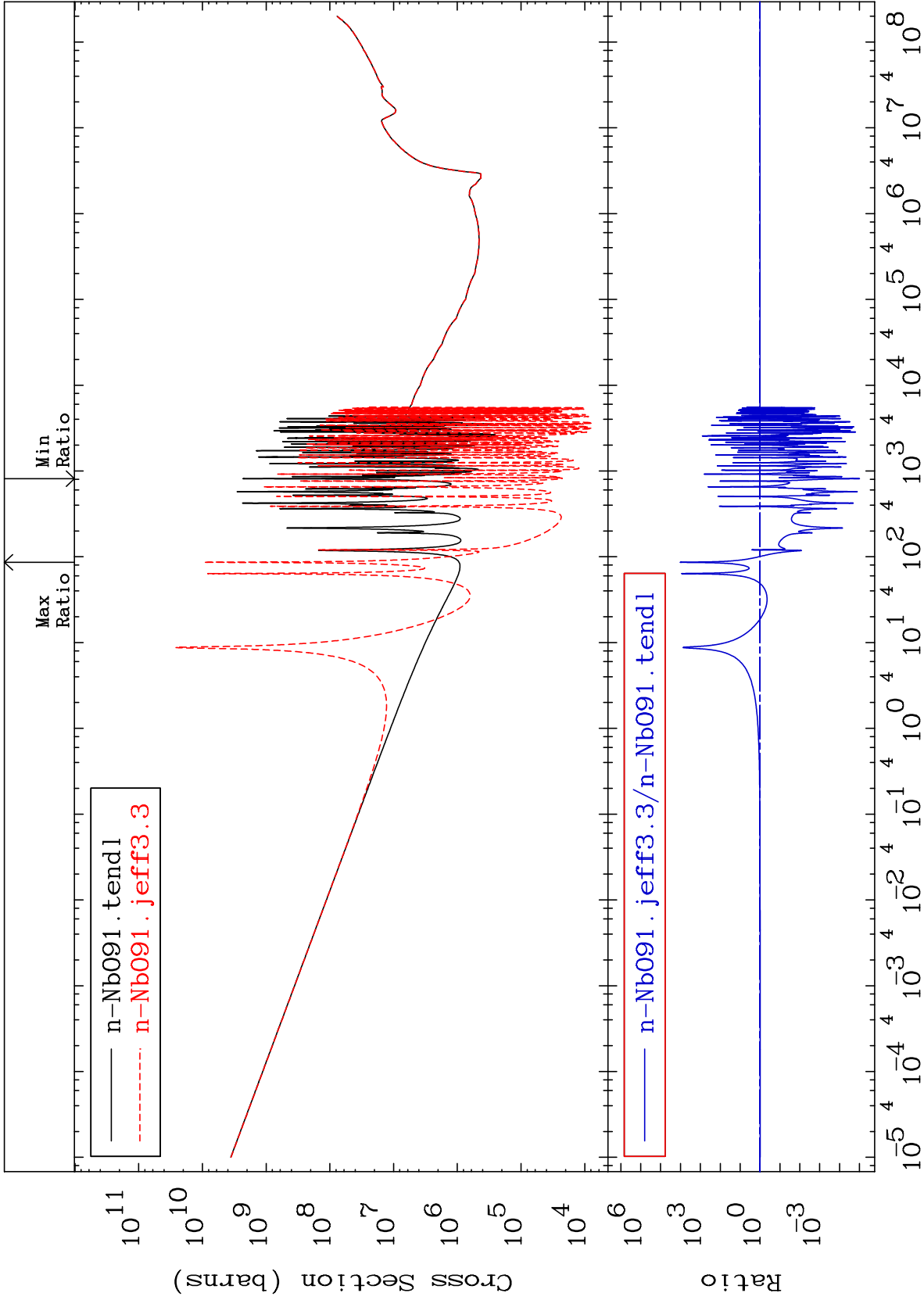
Incident Energy (eV)

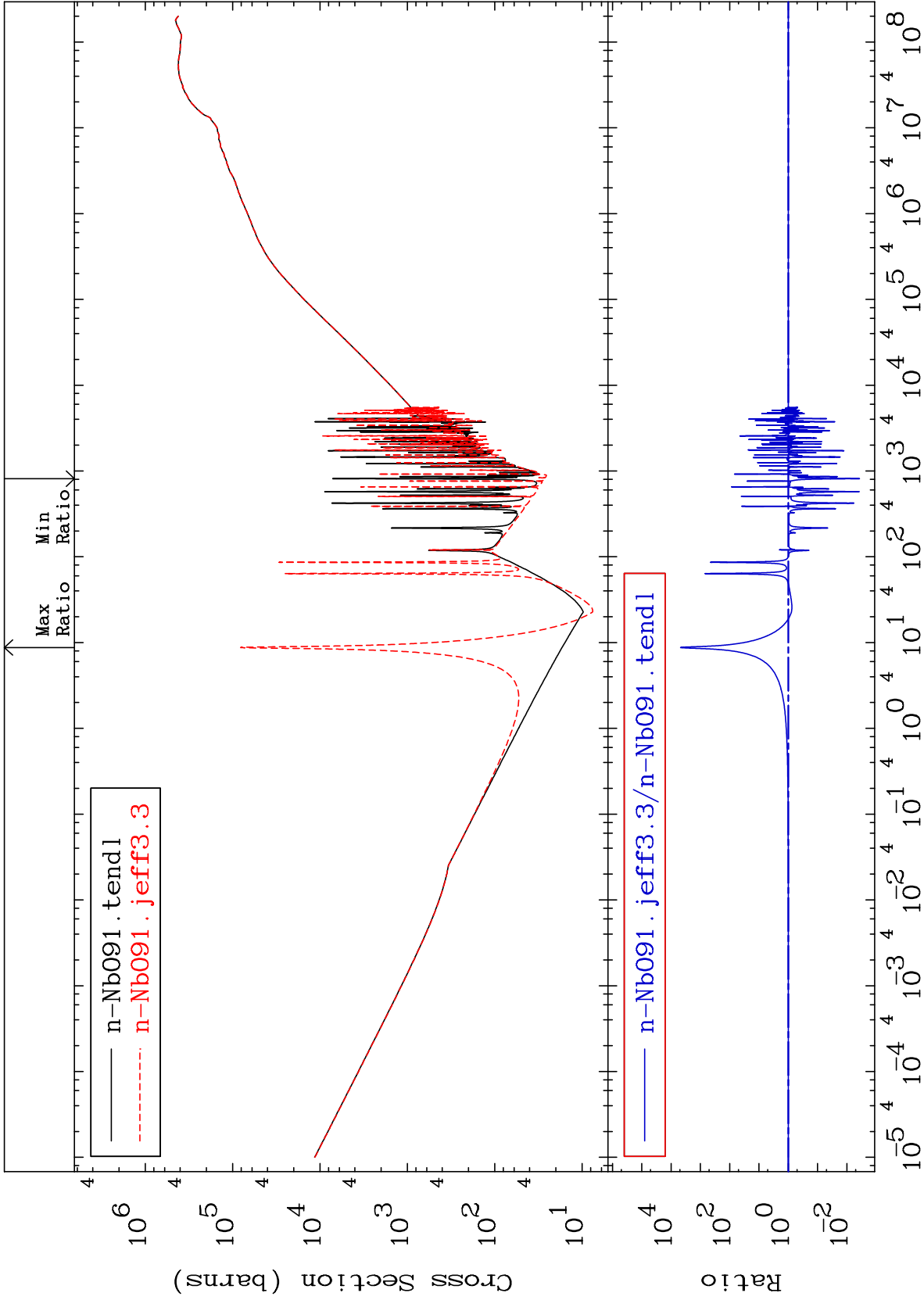
41-Nb-91

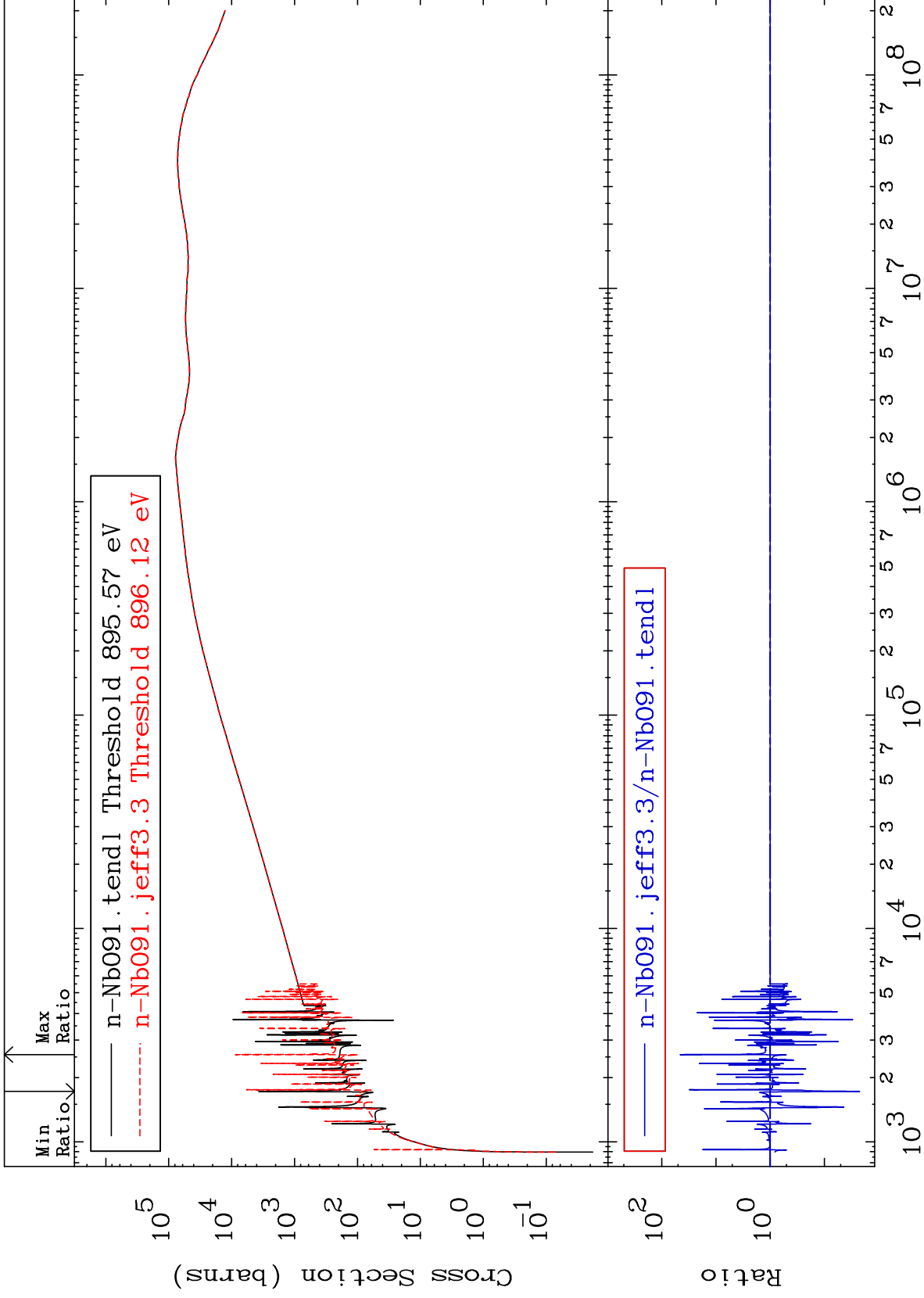








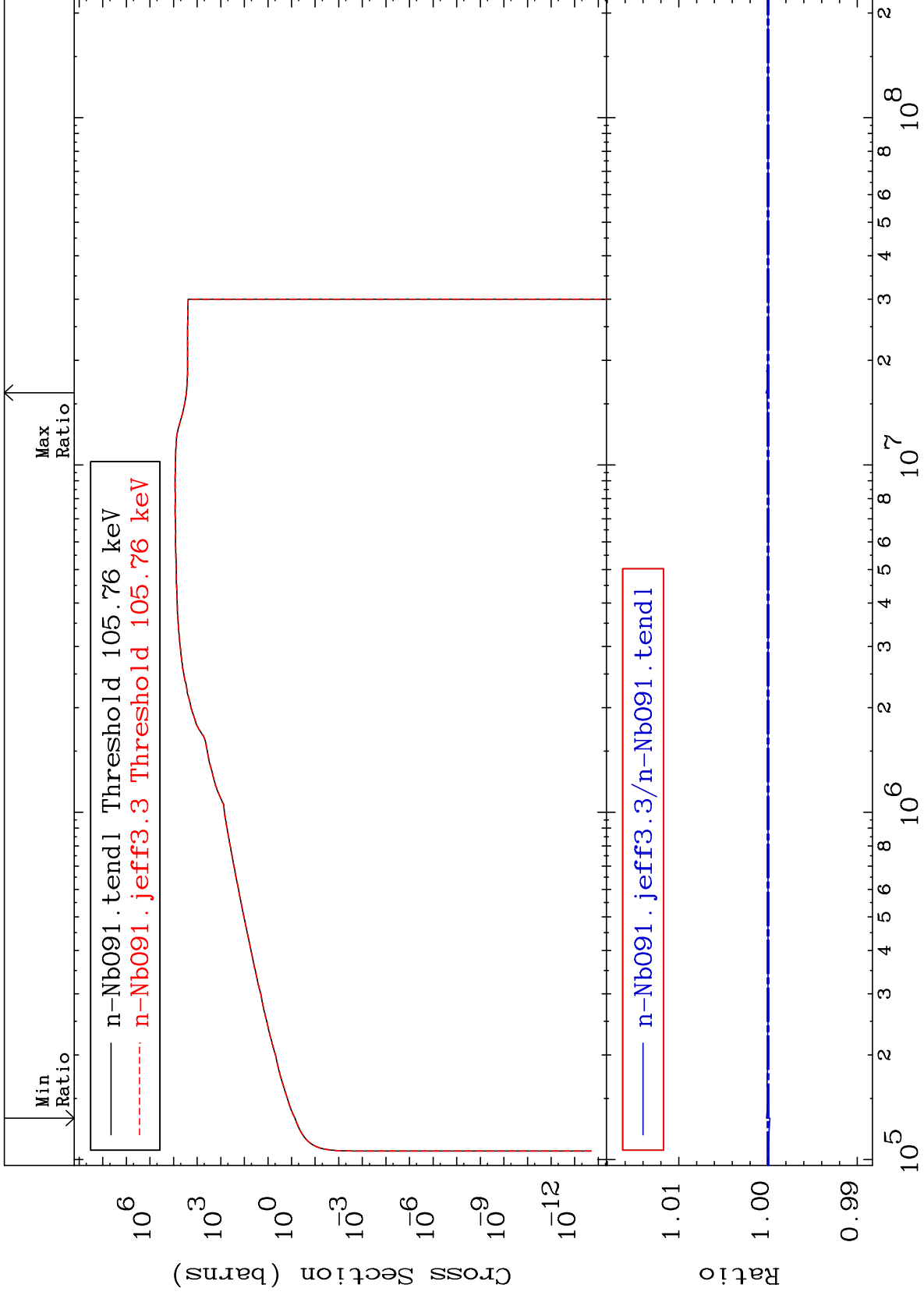




MAT 4119

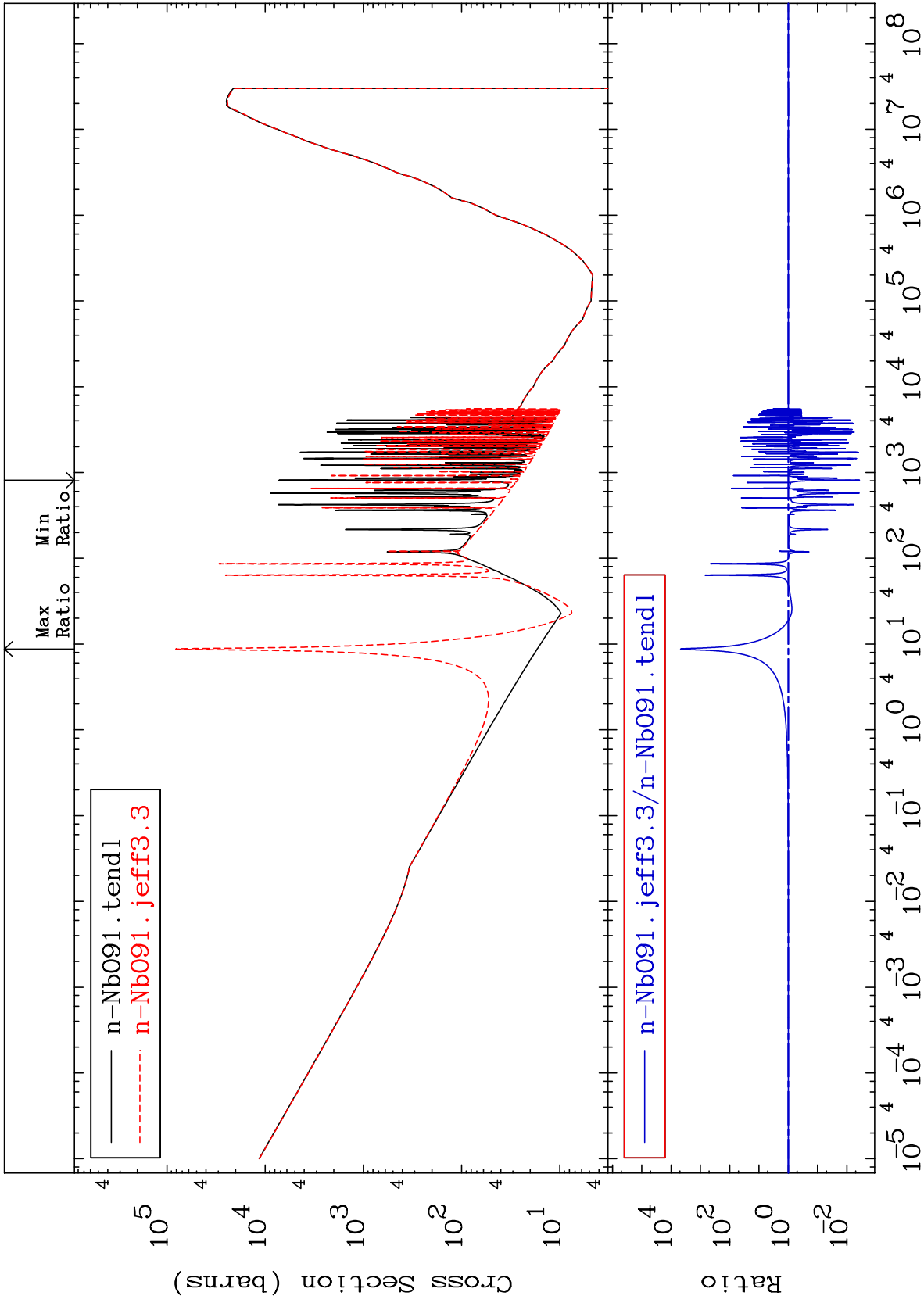
Dpa inelastic (mt51-91)
Cross Section

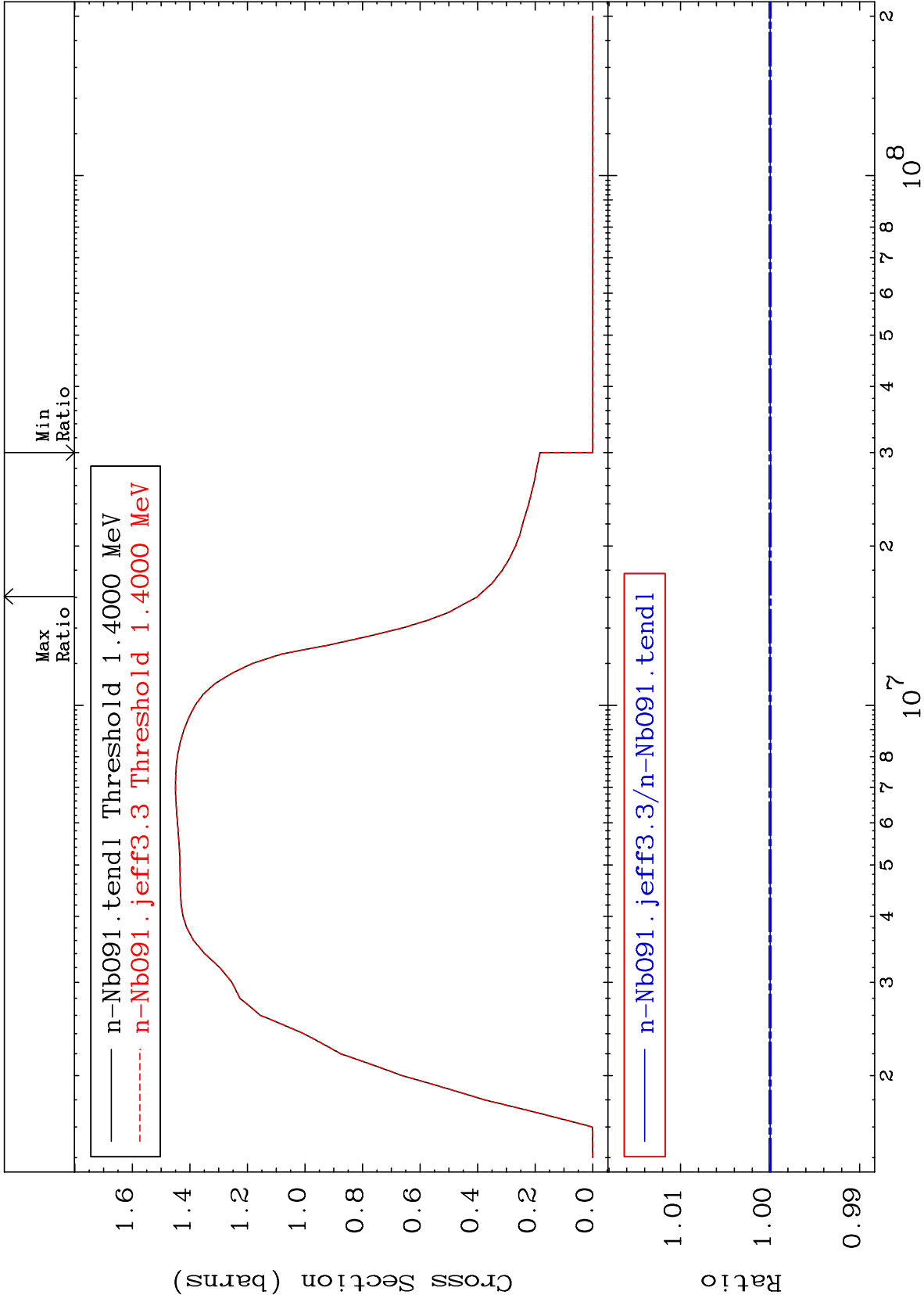
41-Nb-91
-0.021 To 0.023 %



69

41-Nb-91



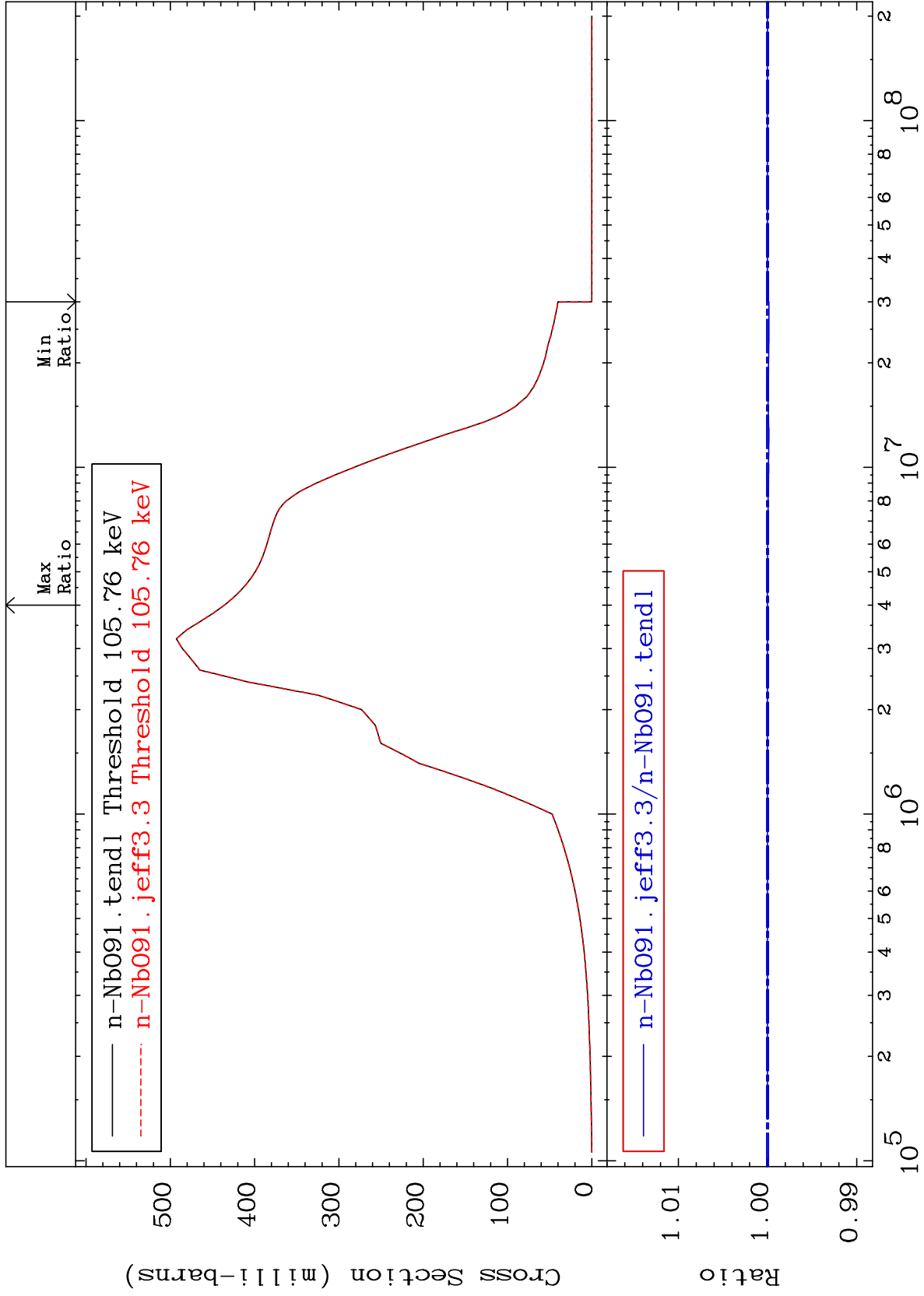


MAT 4119

Inelastic:41-Nb-91m1

41-Nb-91

Radionuclide Production Cross Section -0.017 To 0.001 %

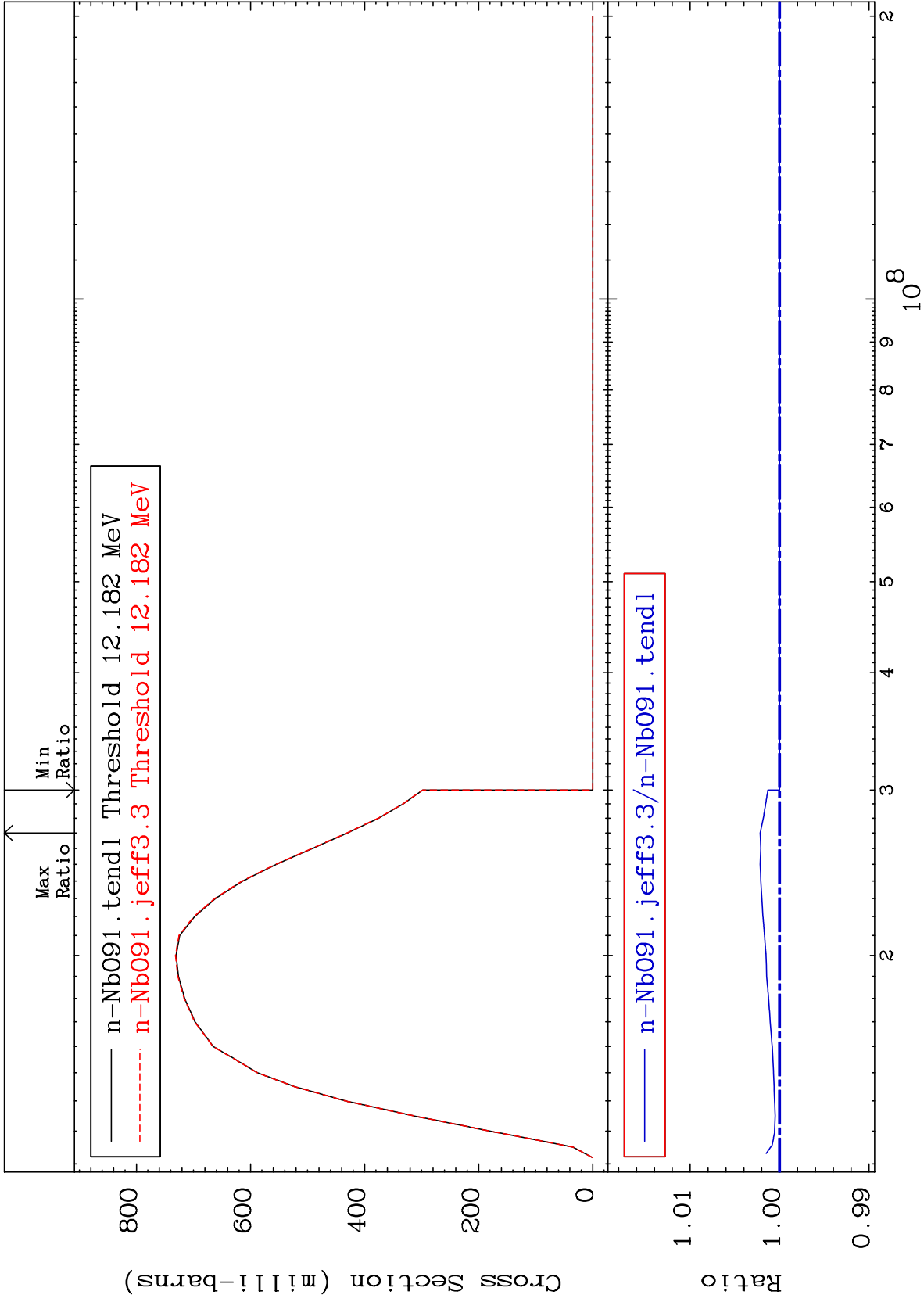


72

Incident Energy (eV)

41-Nb-91

Radionuclide Production Cross Section 0.000 To 0.217 %

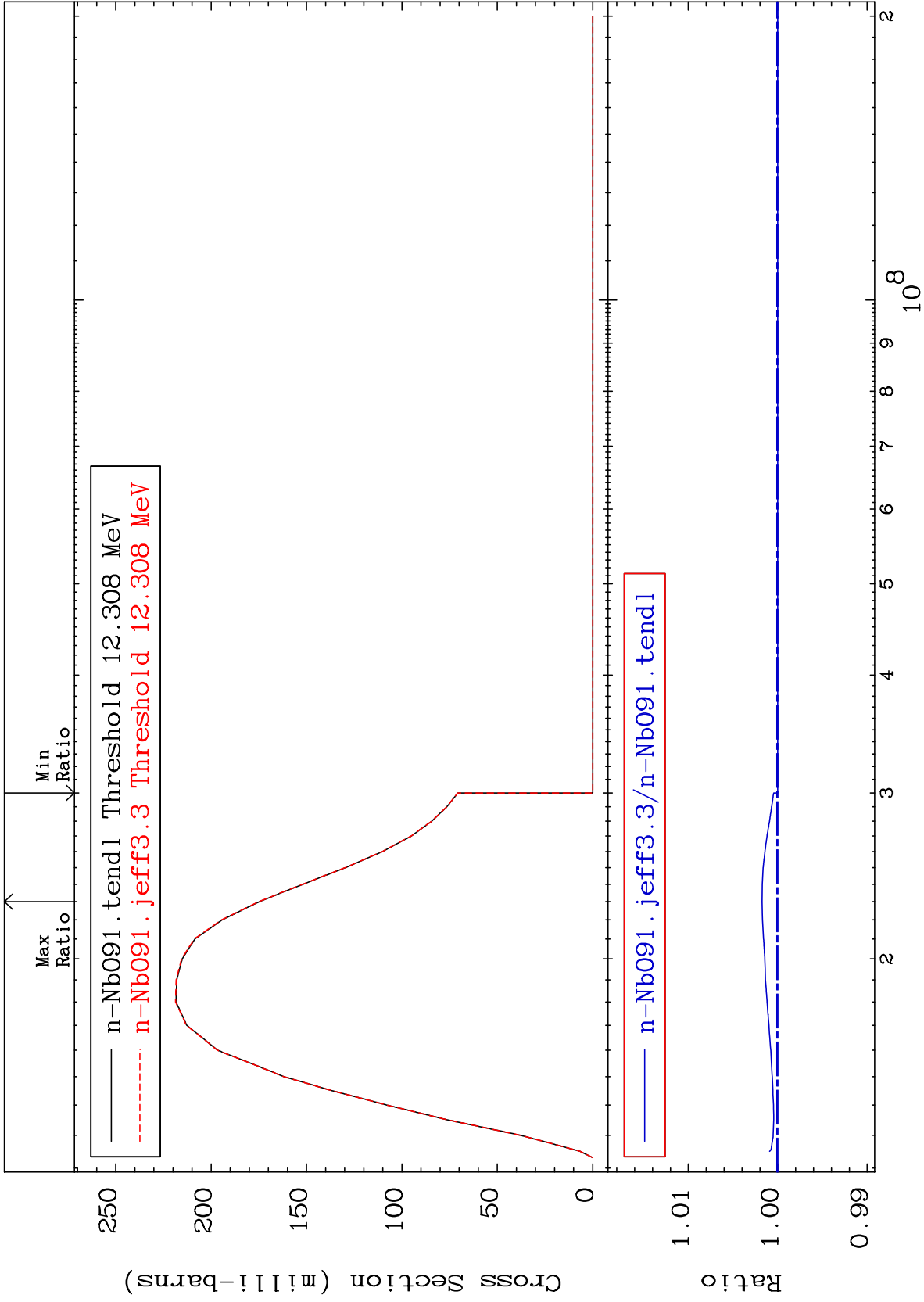


MAT 4119

(n,2n):41-Nb-90m2

41-Nb-91

Radionuclide Production Cross Section 0.000 To 0.176 %

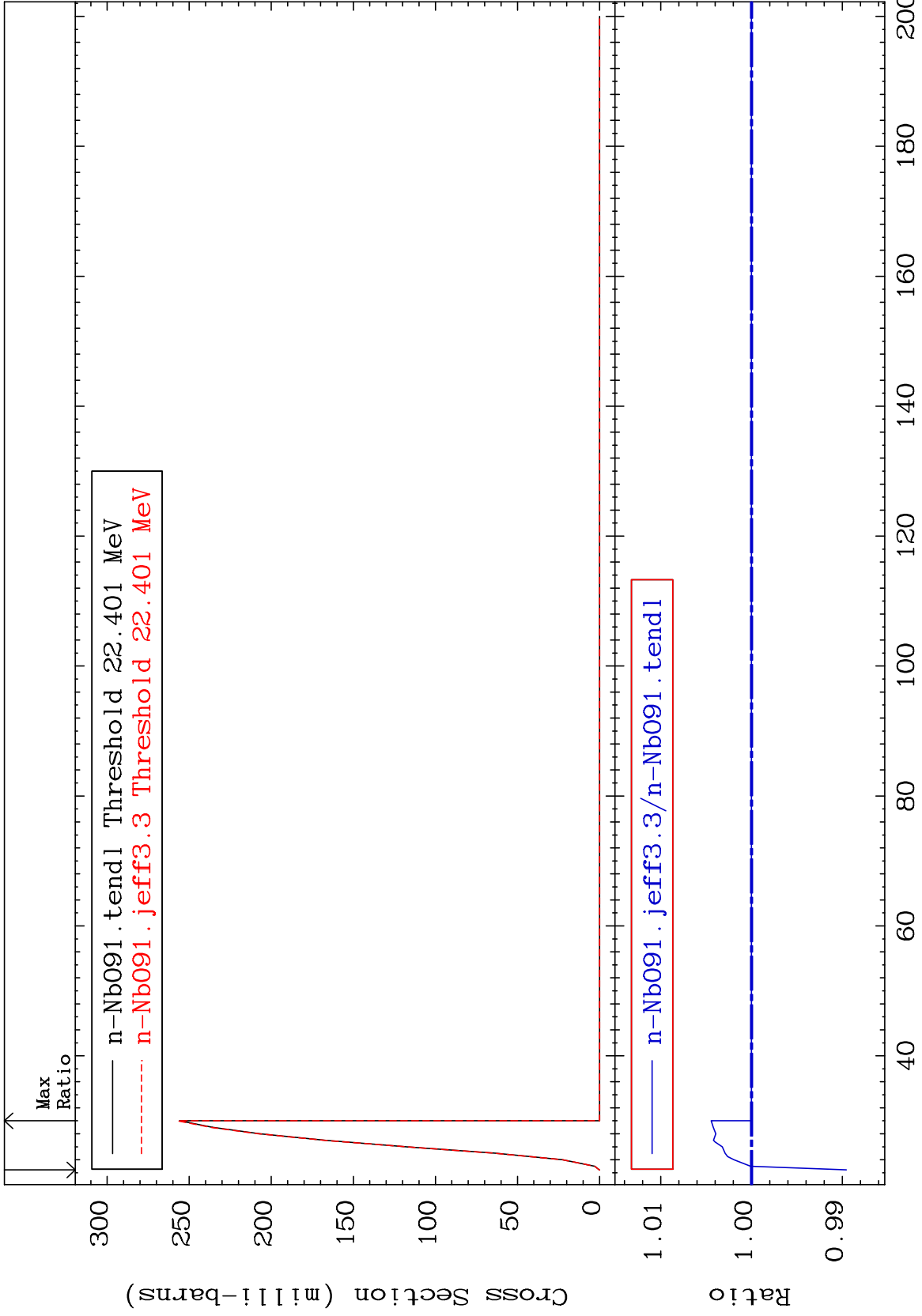


MAT 4119

(n,3n):41-Nb-89g

41-Nb-91

Radionuclide Production Cross Section -1.044 To 0.444 %



75

Incident Energy (MeV)

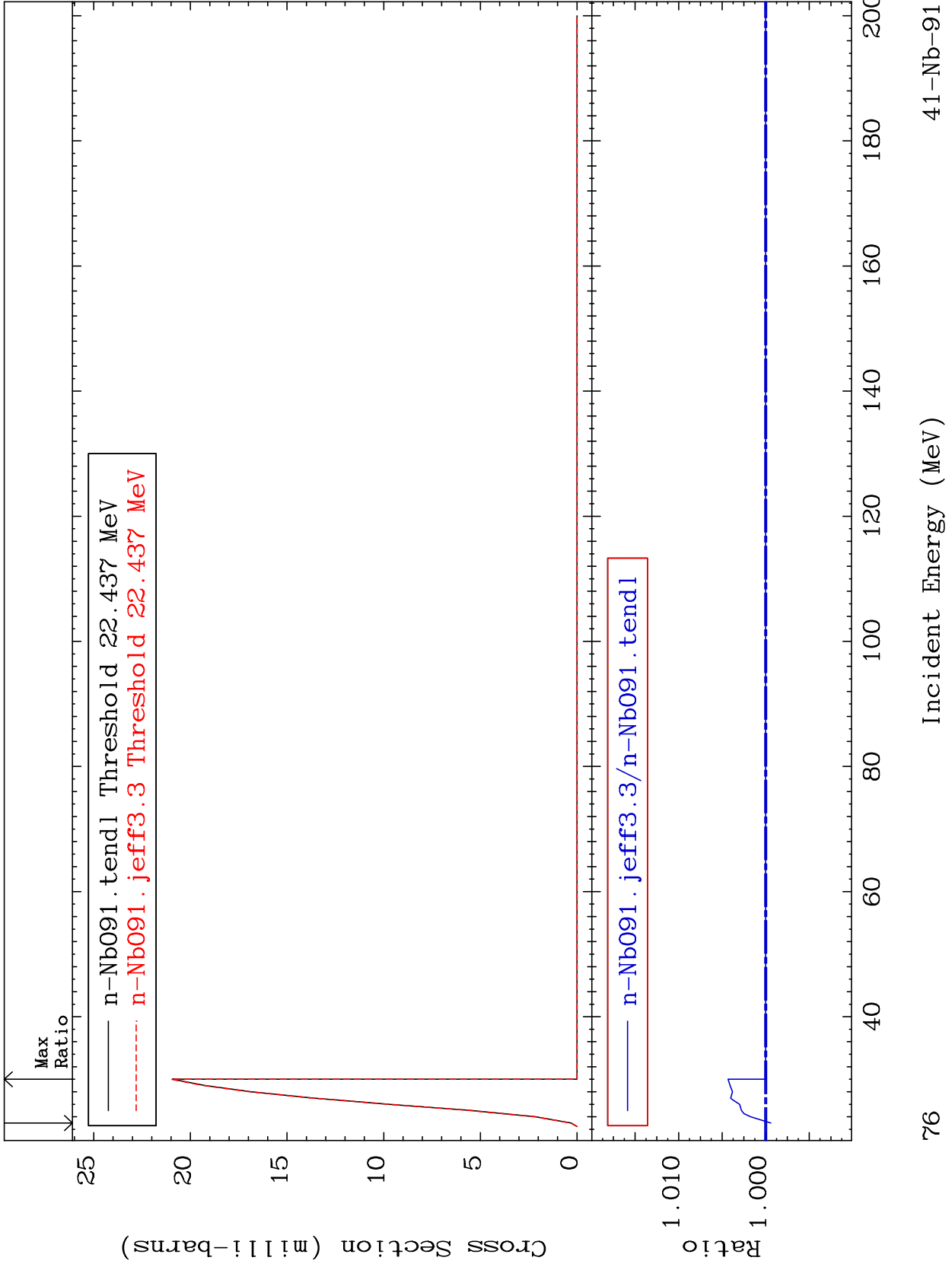
41-Nb-91

MAT 4119

(n,3n):41-Nb-89m1

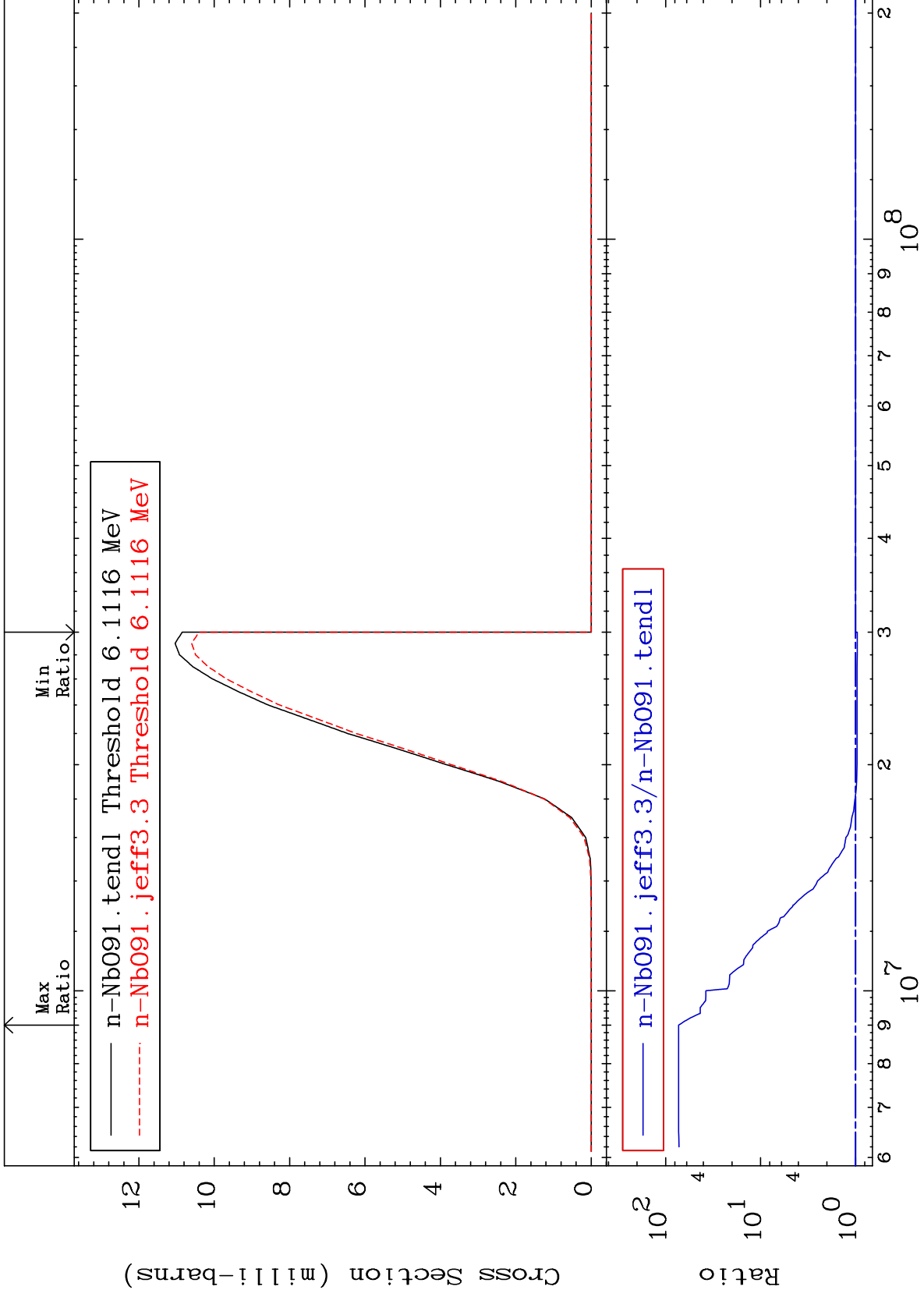
41-Nb-91

Radionuclide Production Cross Section -0.060 To 0.432 %



MAT 4119

(n, n') α :39-Y -87g 41-Nb-91
Radionuclide Production Cross Section -4.084 To 7190. %



77

Incident Energy (eV)

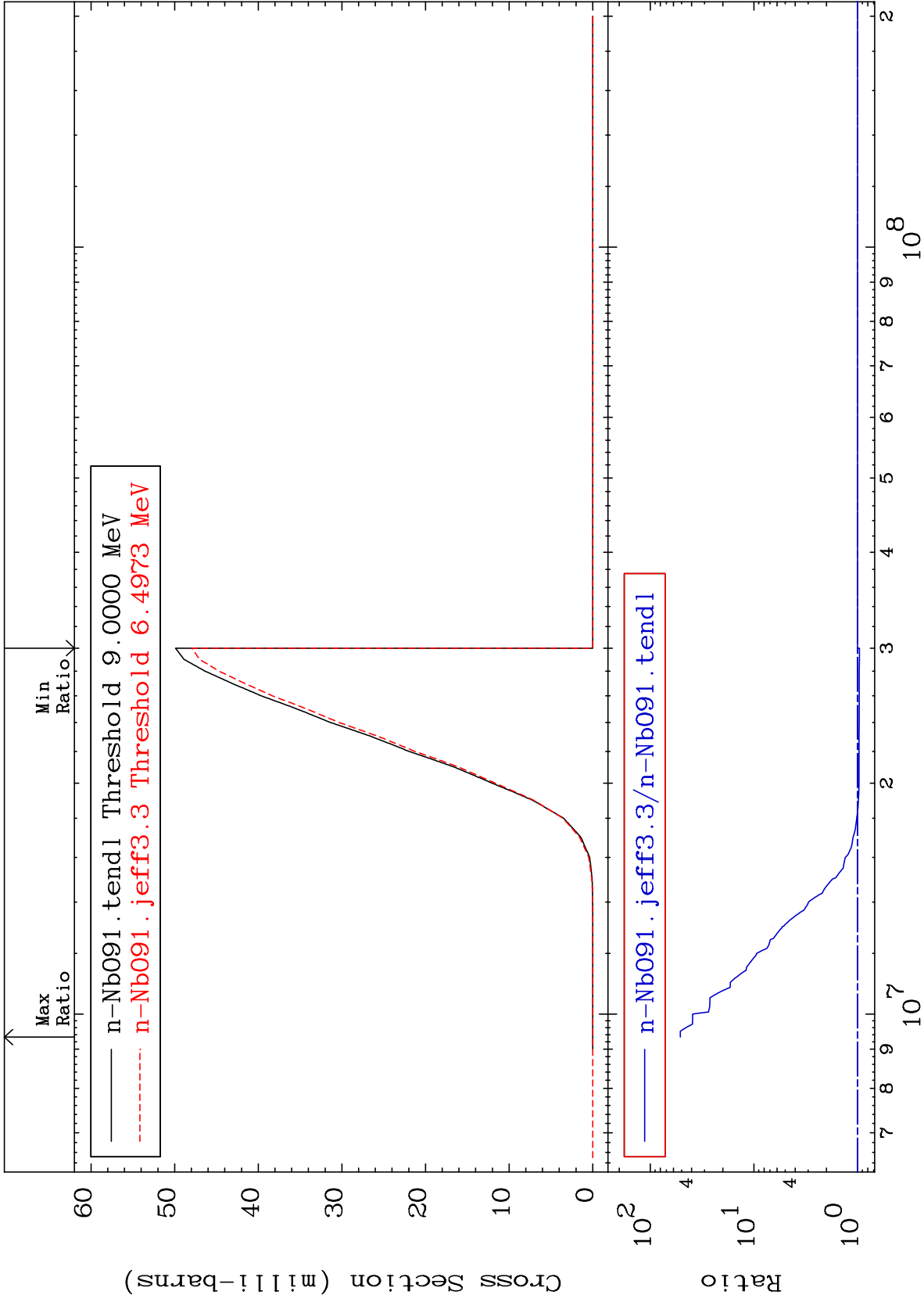
41-Nb-91

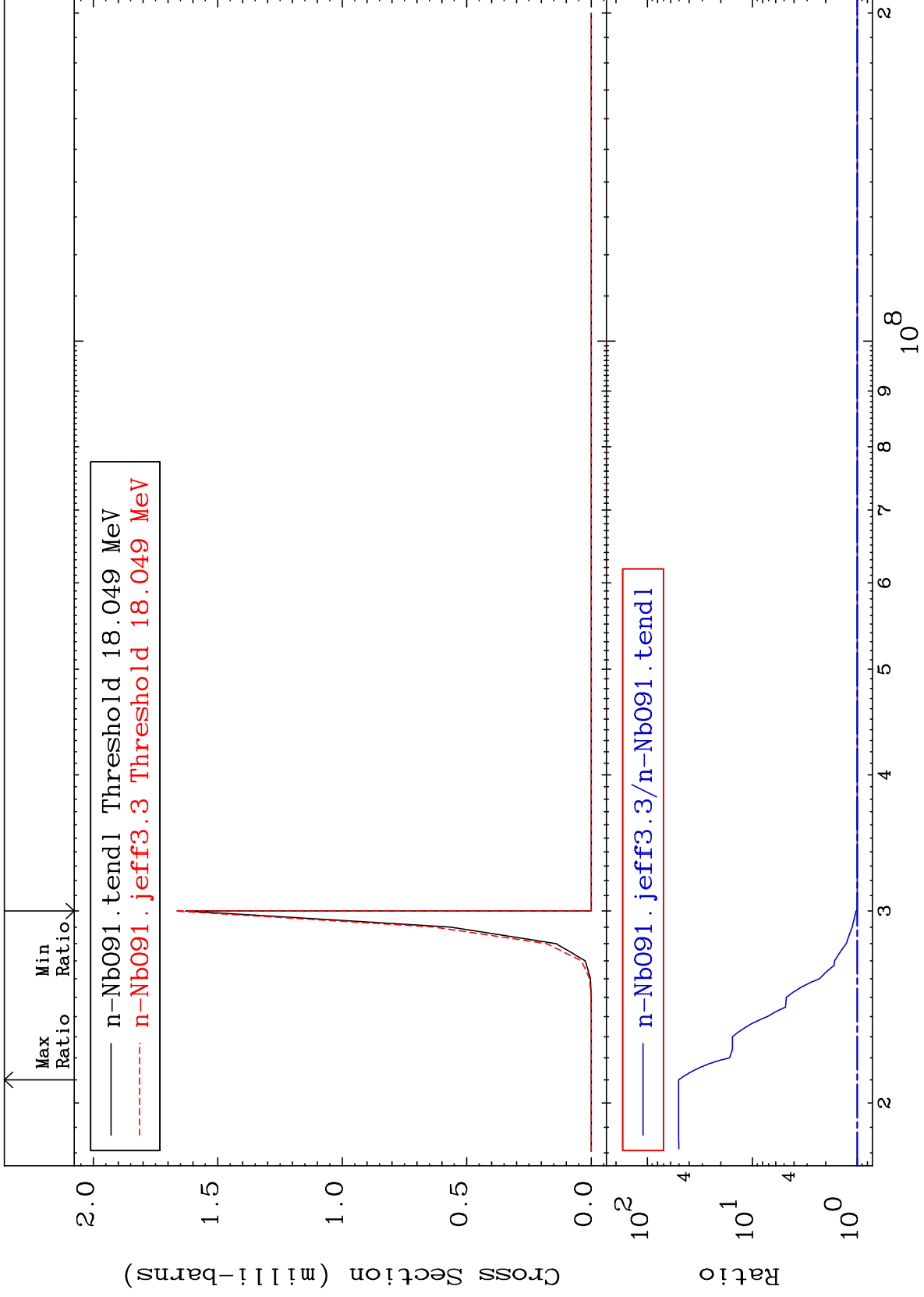
MAT 4119

(n, n') α :39-Y -87m1

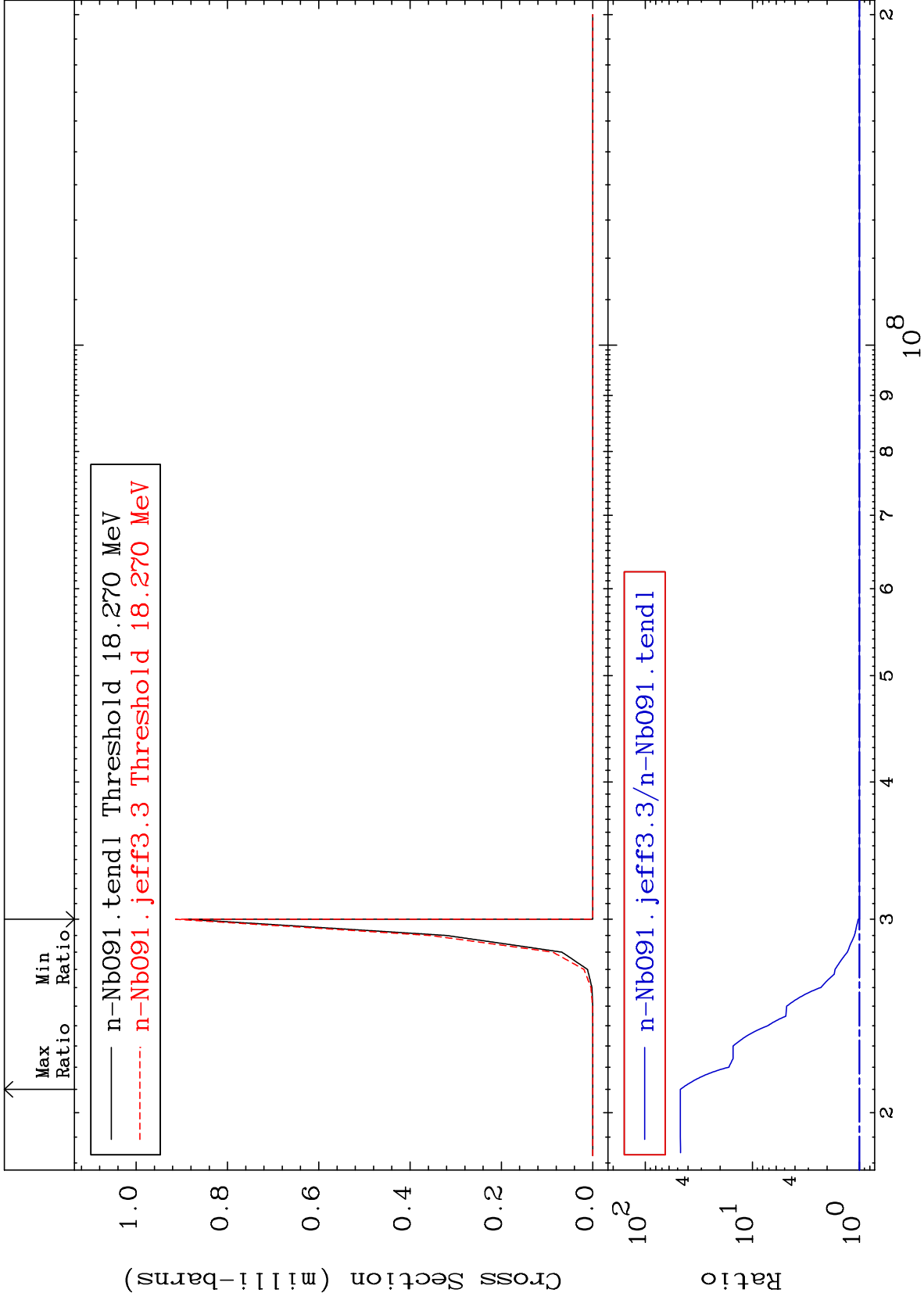
41-Nb-91

Radionuclide Production Cross Section -3.912 To 5034. %





Radionuclide Production Cross Section 0.000 To 4609. %

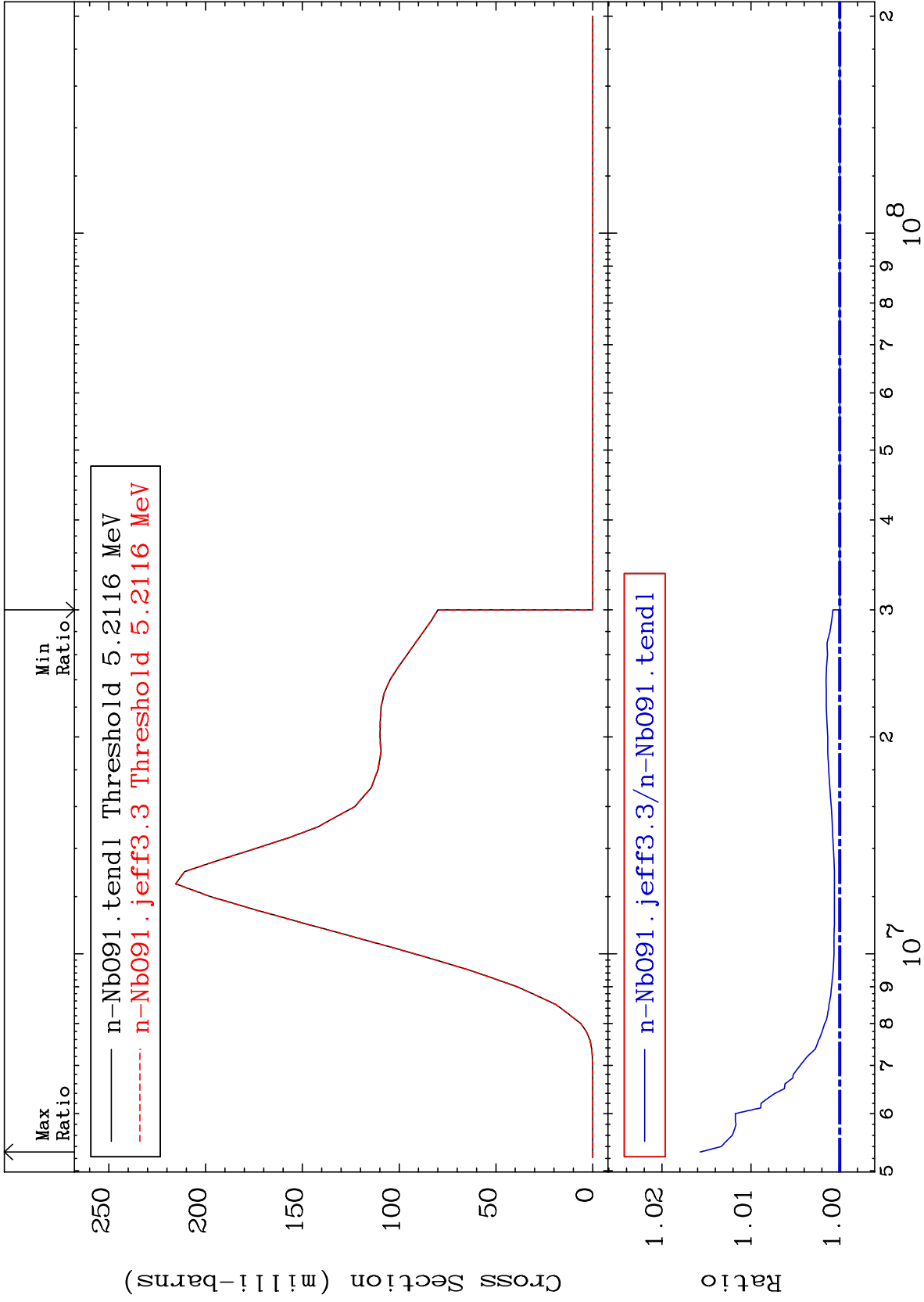


MAT 4119

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

41-Nb-91

Radionuclide Production Cross Section 0.000 To 1.572 %



81

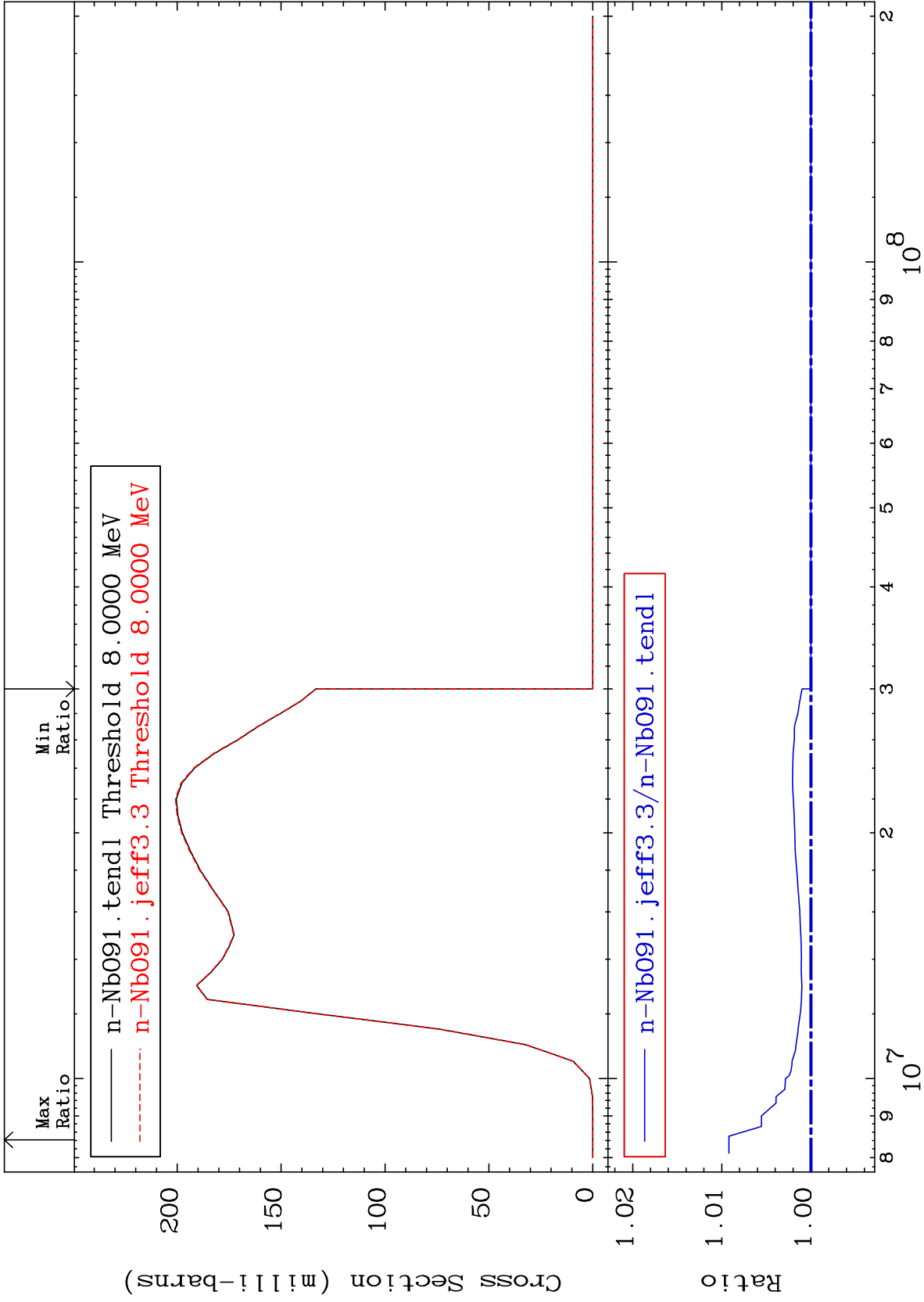
41-Nb-91

MAT 4119

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

41-Nb-91

Radionuclide Production Cross Section 0.000 To 0.921 %



82

Incident Energy (eV)

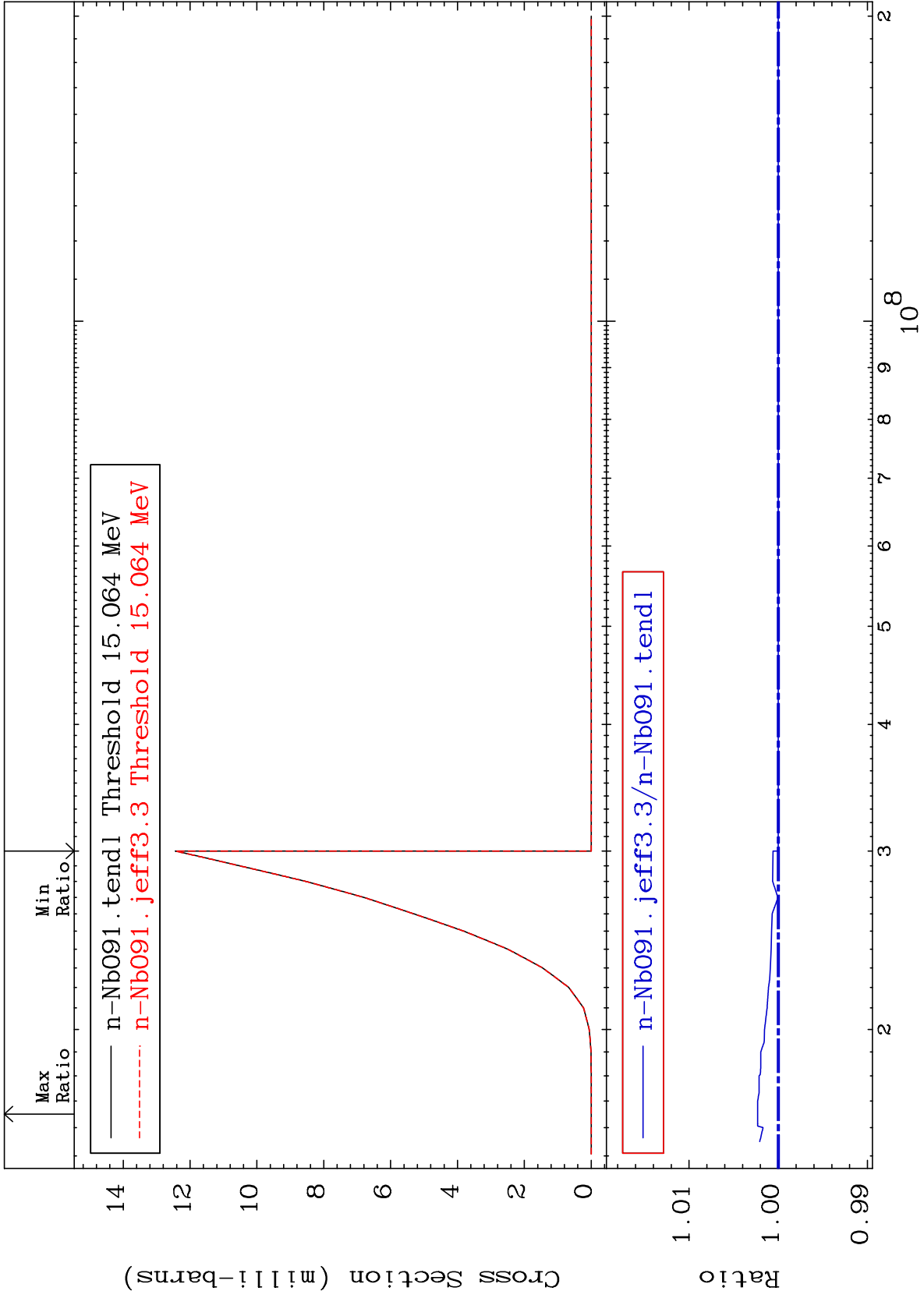
41-Nb-91

MAT 4119

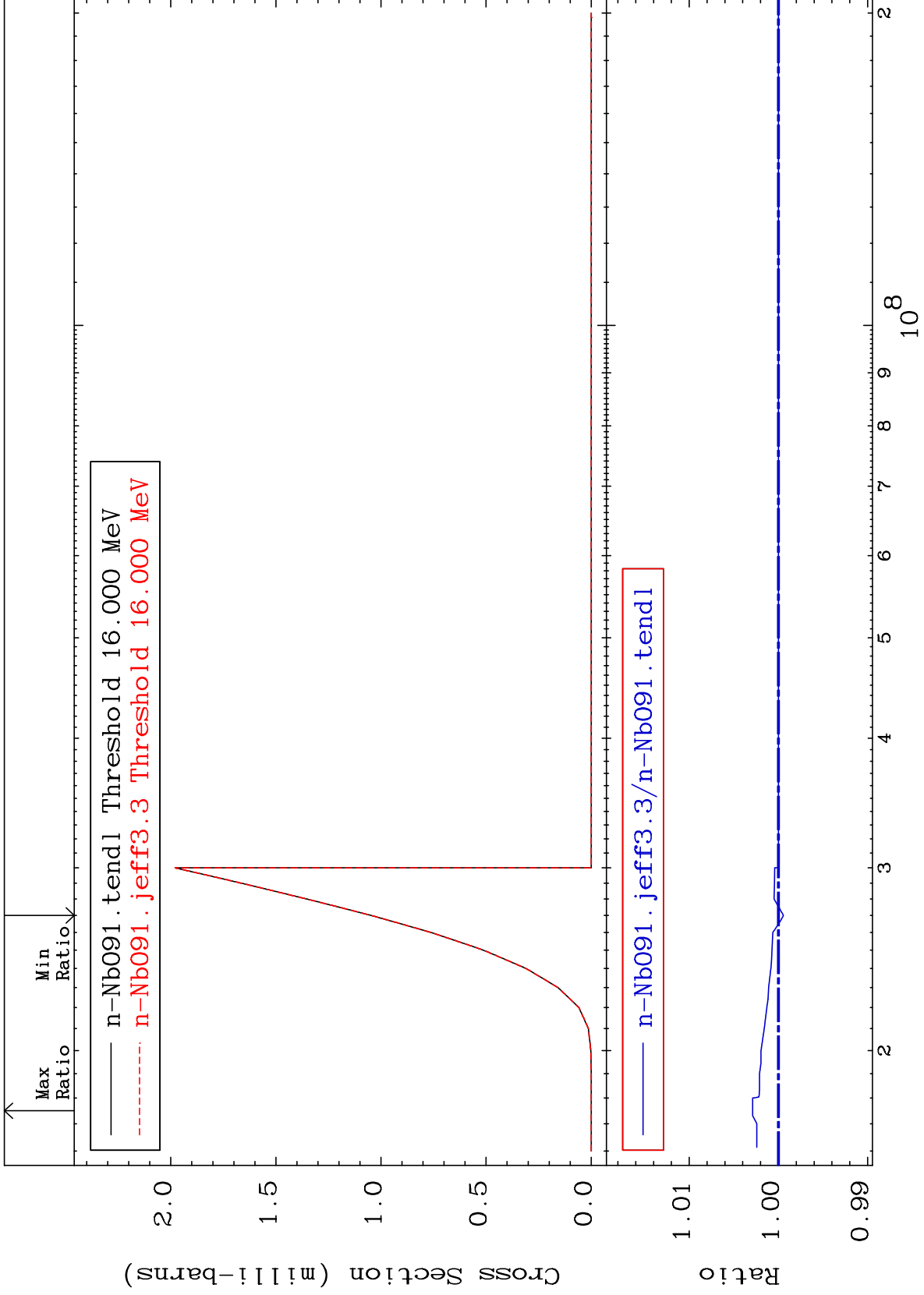
(n, n') d:40-Zr-89g

41-Nb-91

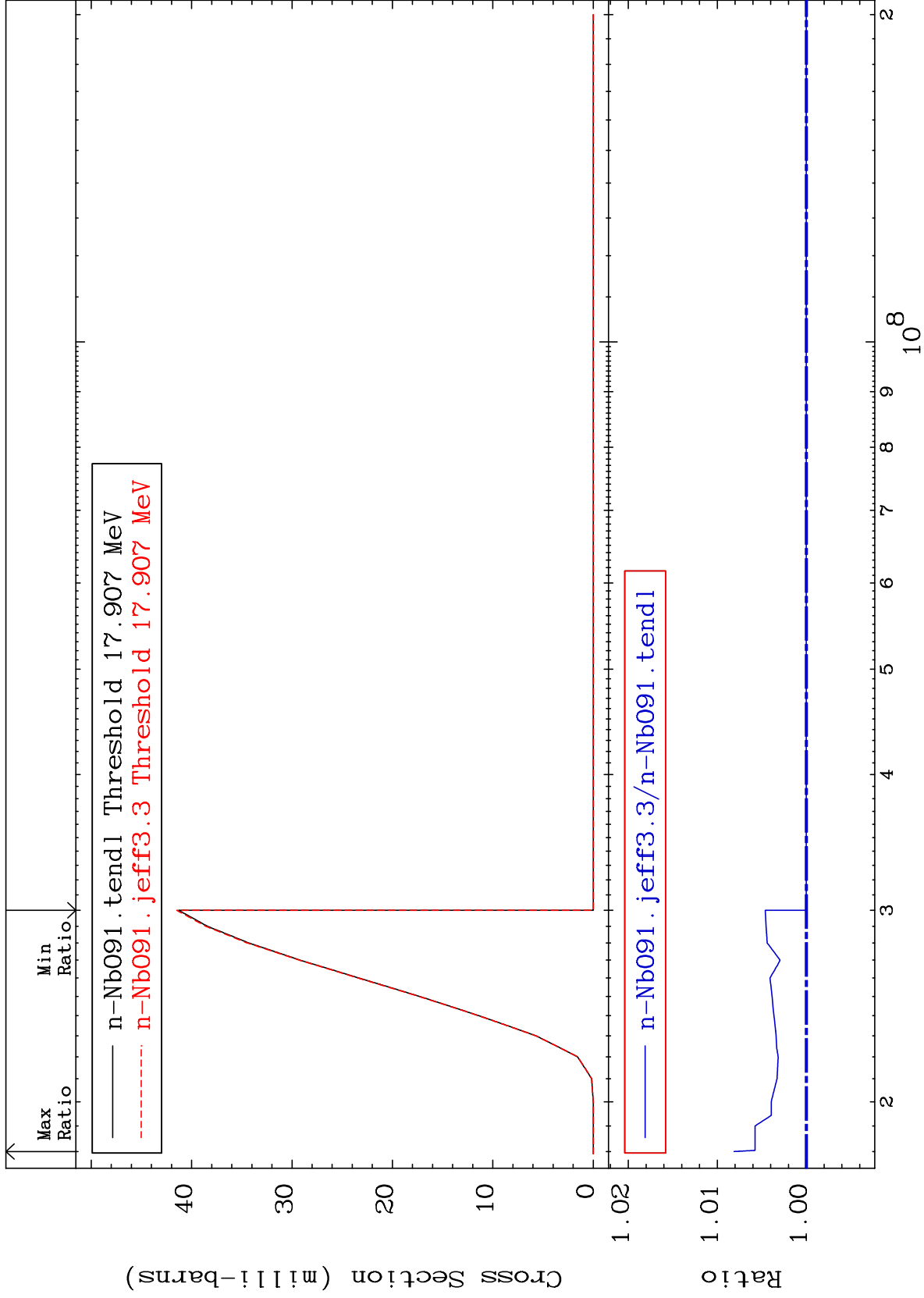
Radionuclide Production Cross Section 0.000 To 0.231 %



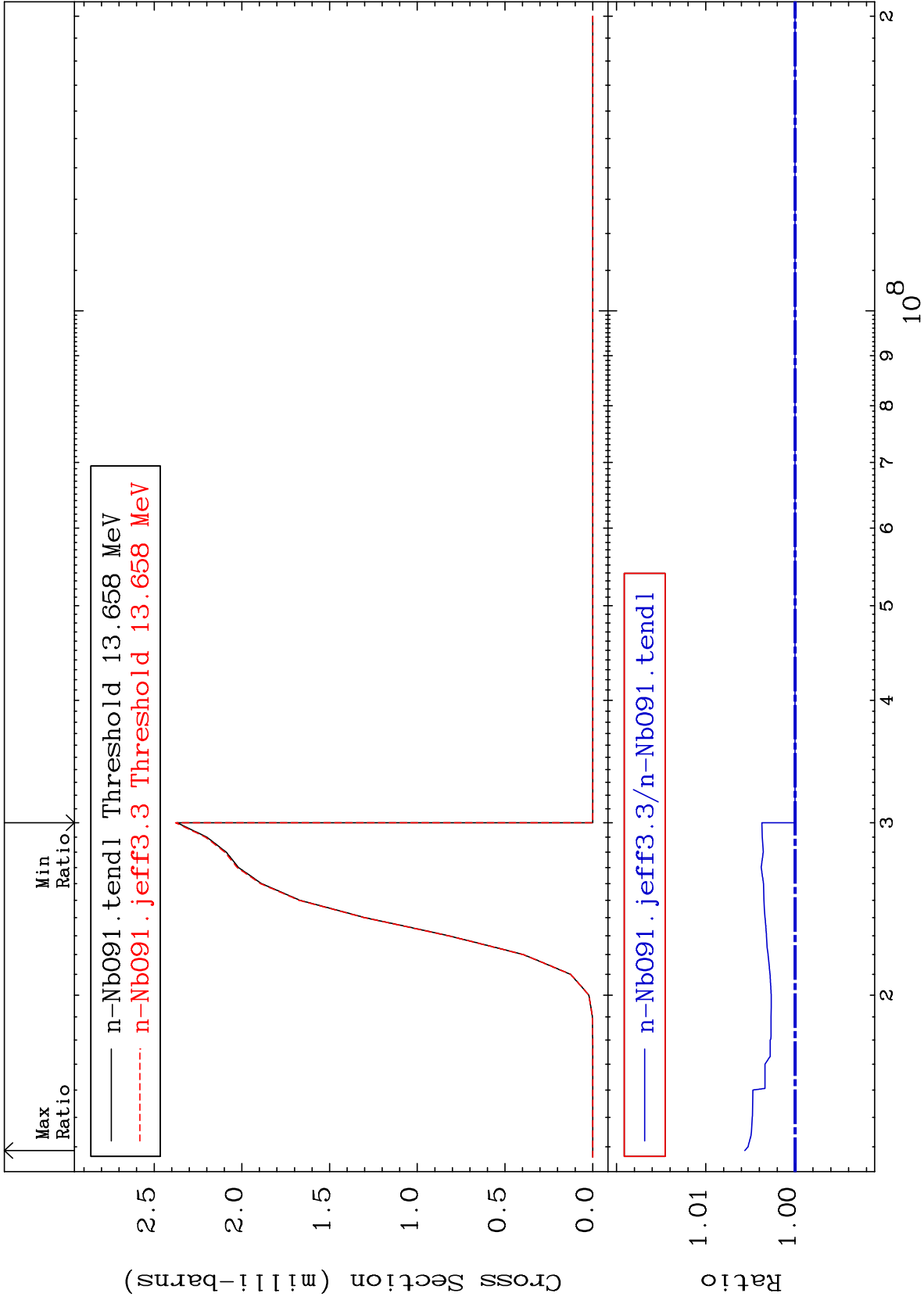
Radionuclide Production Cross Section -0.055 To 0.290 %



Radionuclide Production Cross Section 0.000 To 0.812 %



Radionuclide Production Cross Section 0.000 To 0.564 %

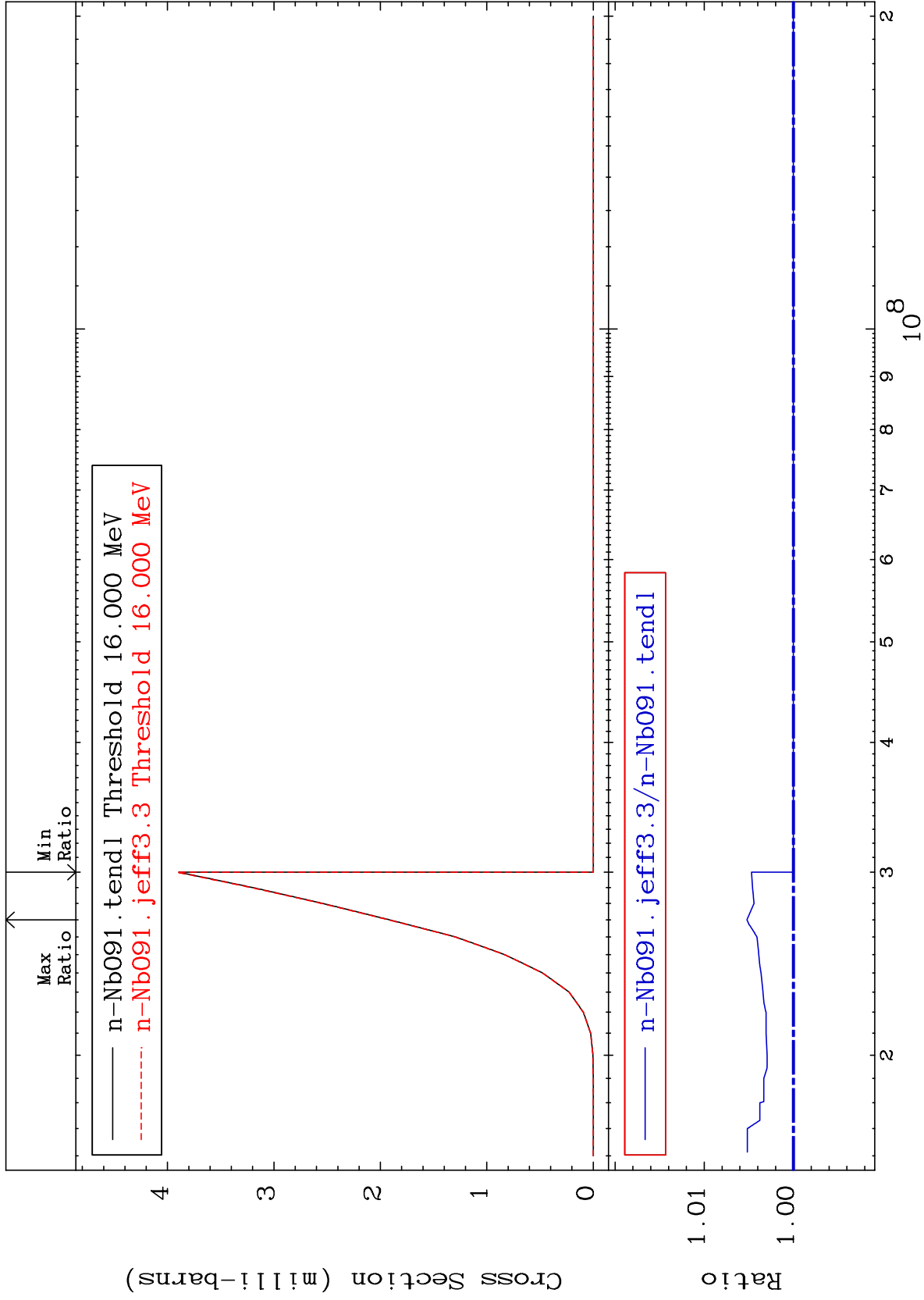


MAT 4119

(n,2n) p:39-Y -89m1

41-Nb-91

Radionuclide Production Cross Section 0.000 To 0.522 %



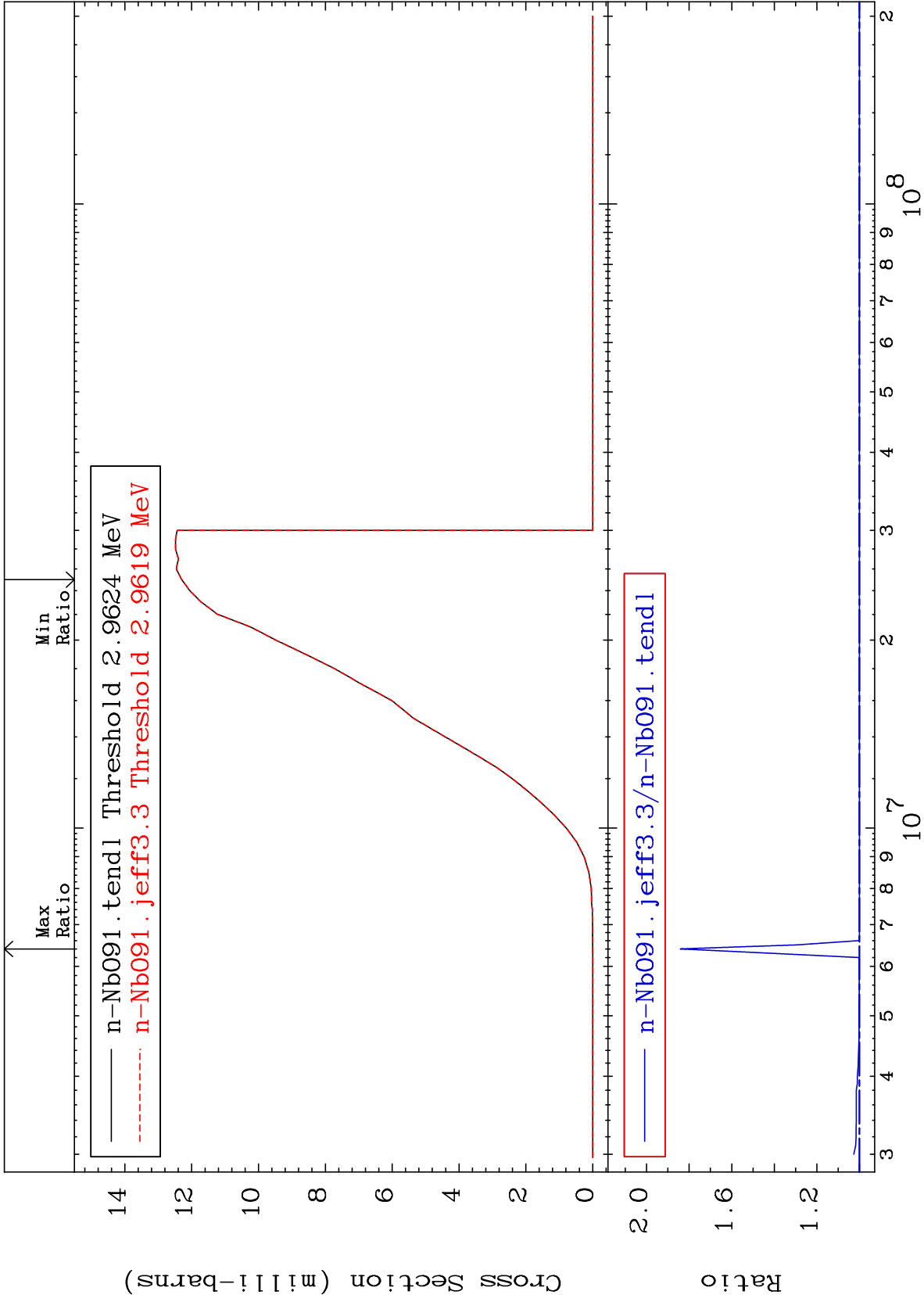
MAT 4119

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

41-Nb-91

Radionuclide Production Cross Section

-0.008 To 84.13 %



89

Incident Energy (eV)

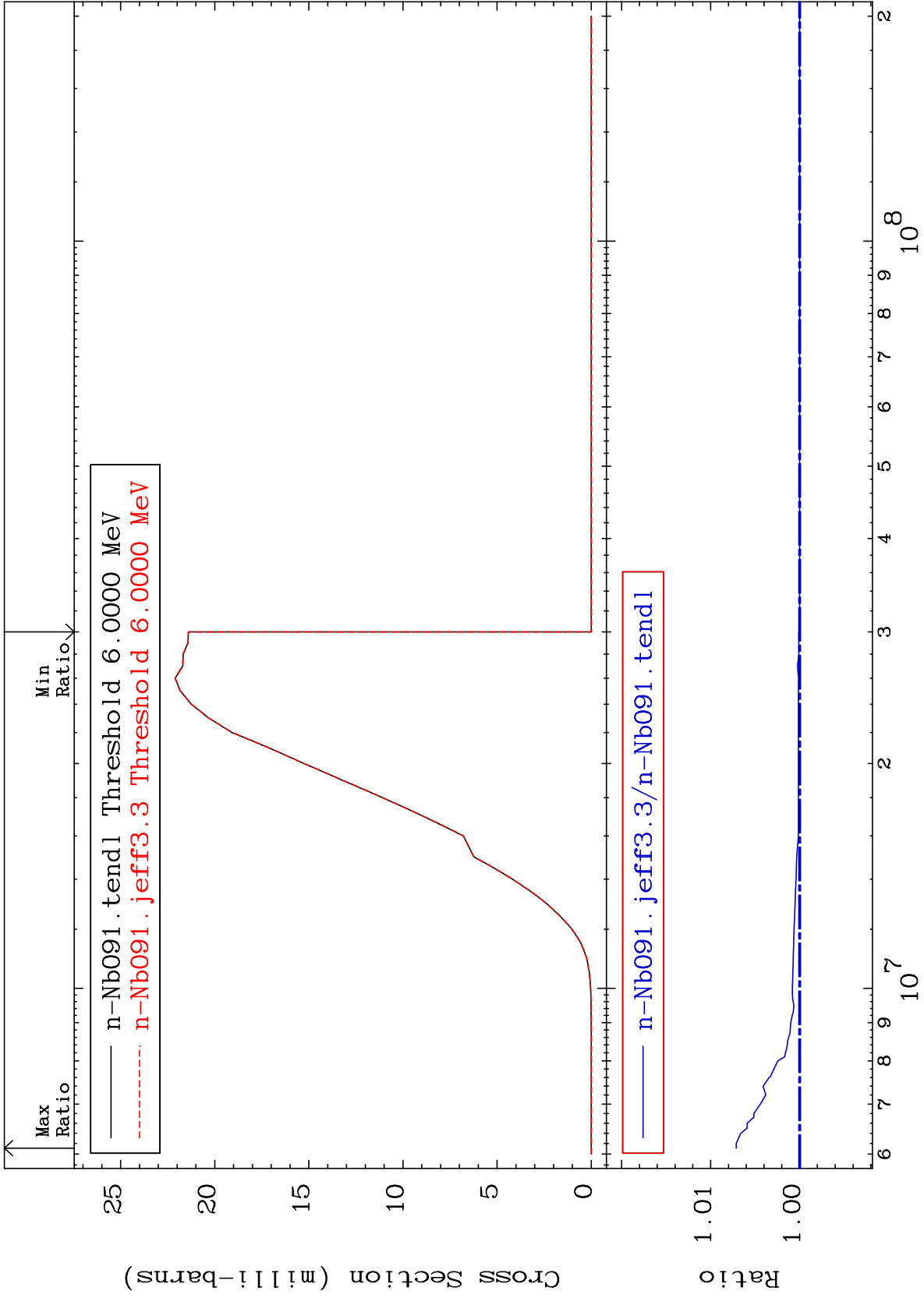
41-Nb-91

MAT 4119

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

41-Nb-91

Radionuclide Production Cross Section 0.000 To 0.712 %



90

41-Nb-91

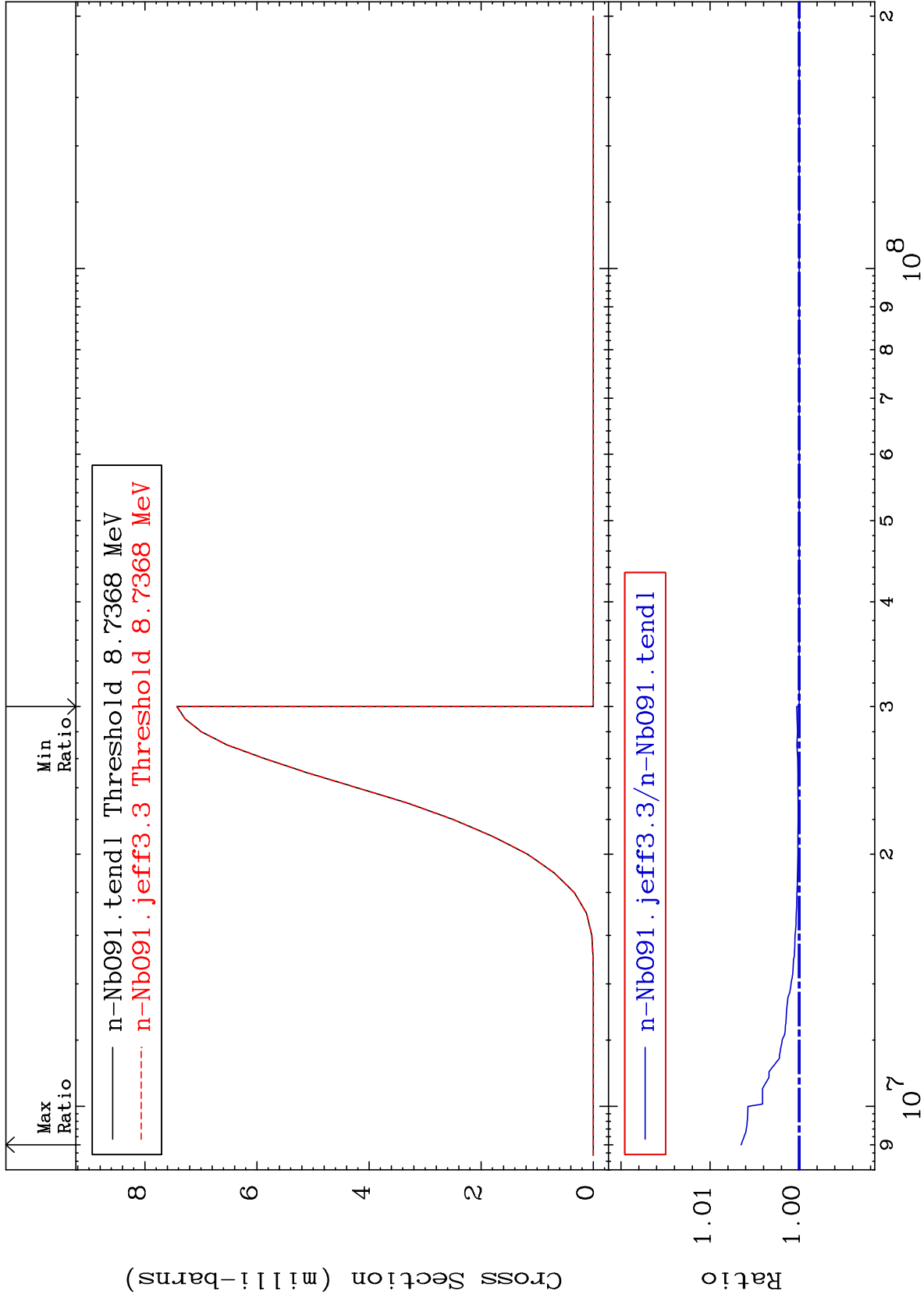
41-Nb-91

MAT 4119

(n, t):40-Zr-89g

41-Nb-91

Radionuclide Production Cross Section 0.000 To 0.652 %



91

Incident Energy (eV)

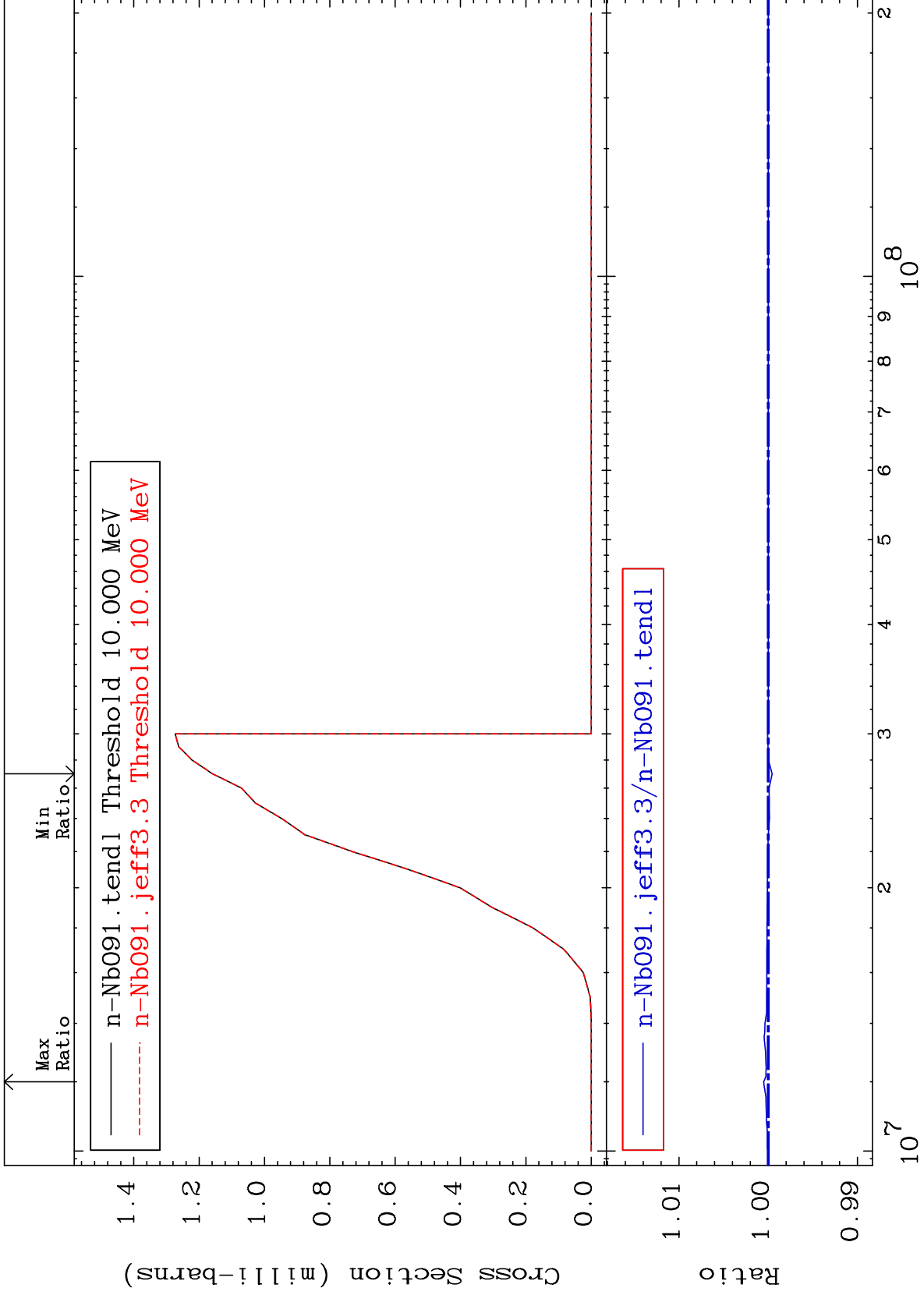
41-Nb-91

MAT 4119

(n, t) : 40-Zr-89m1

41-Nb-91

Radionuclide Production Cross Section -0.044 To 0.050 %



92

Incident Energy (eV)

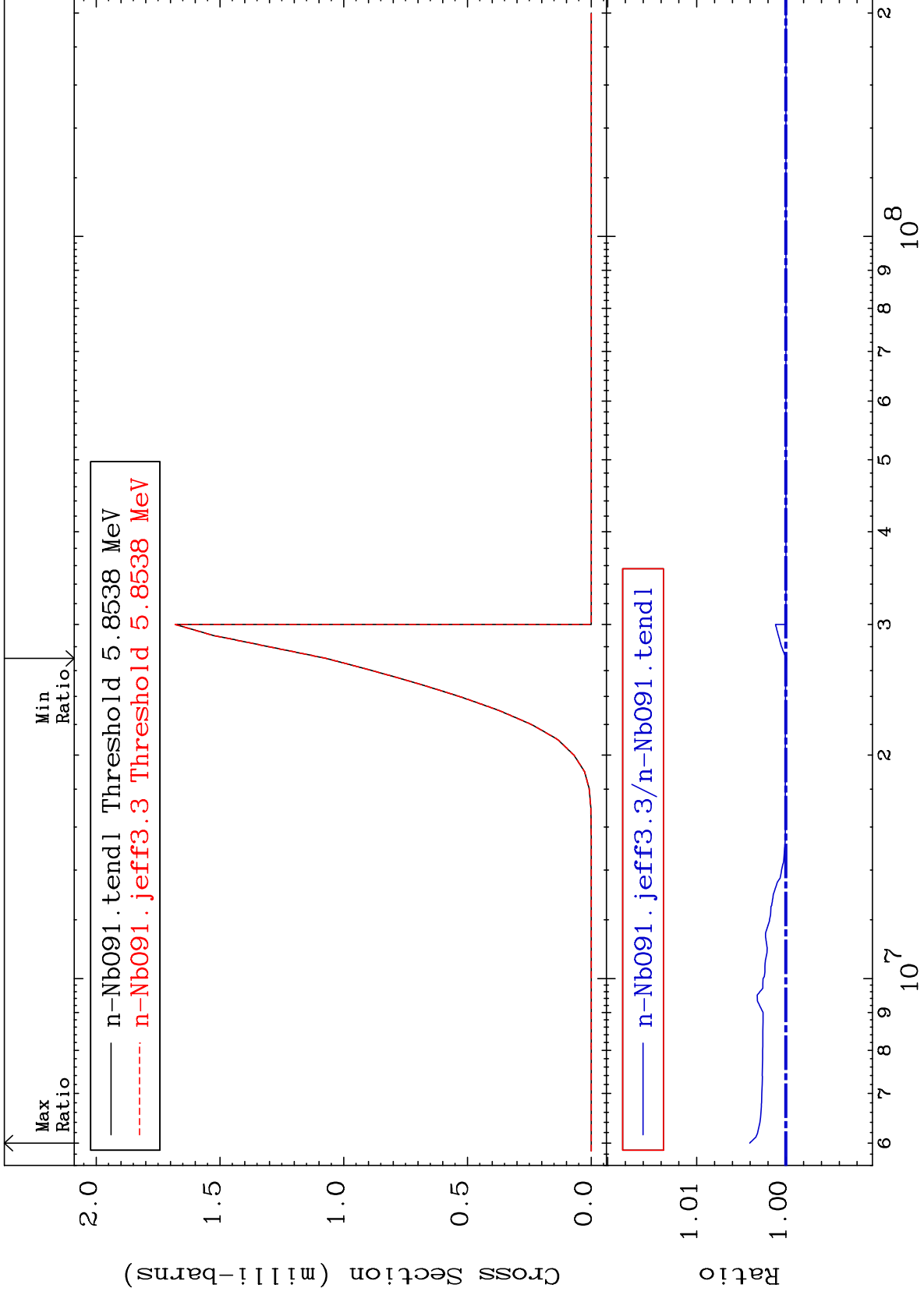
41-Nb-91

MAT 4119

(n,He-3):39-Y -89g

41-Nb-91

Radionuclide Production Cross Section -0.005 To 0.406 %



93

Incident Energy (eV)

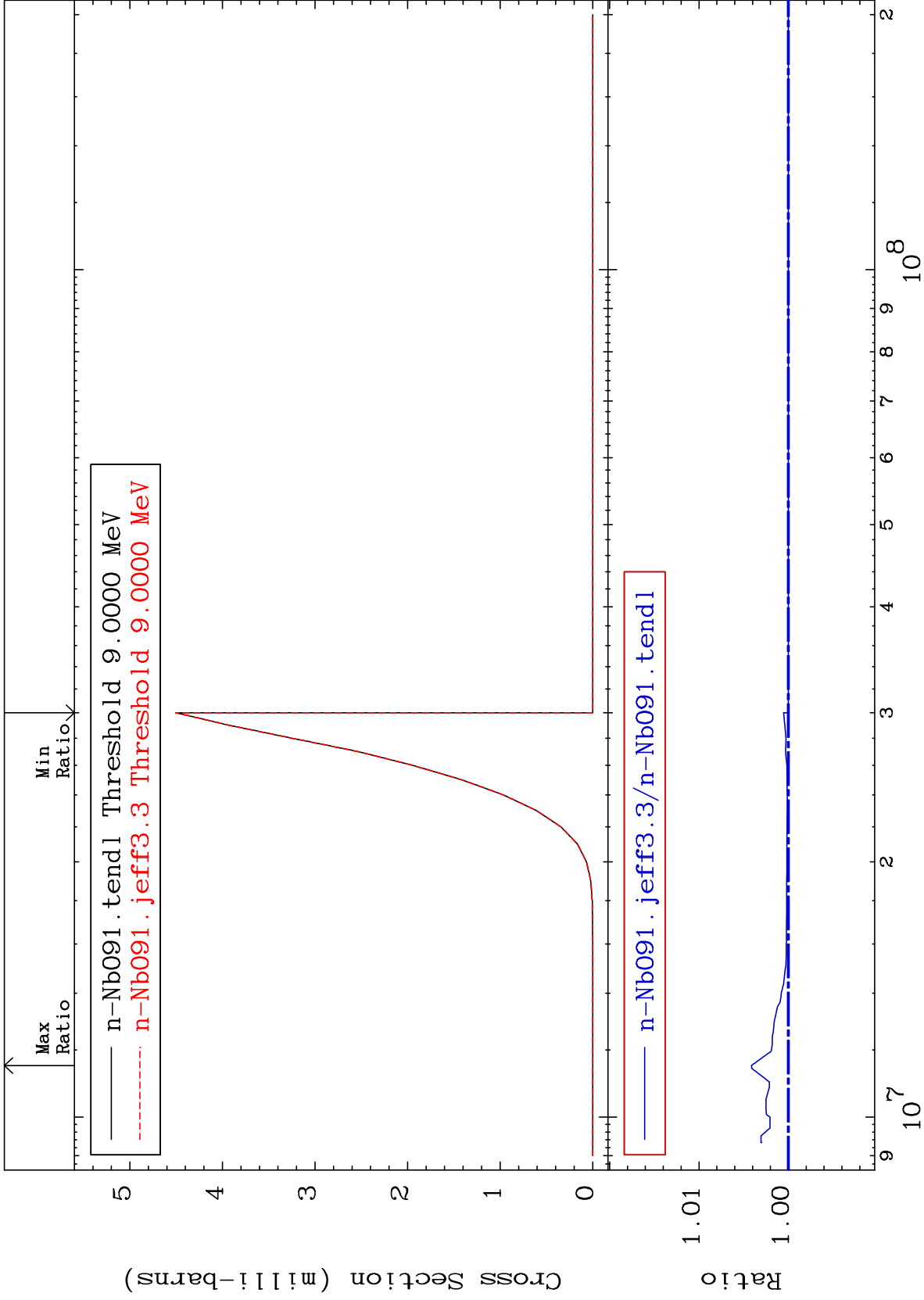
41-Nb-91

MAT 4119

(n,He-3):39-Y -89m1

41-Nb-91

Radionuclide Production Cross Section 0.000 To 0.413 %



94

Incident Energy (eV)

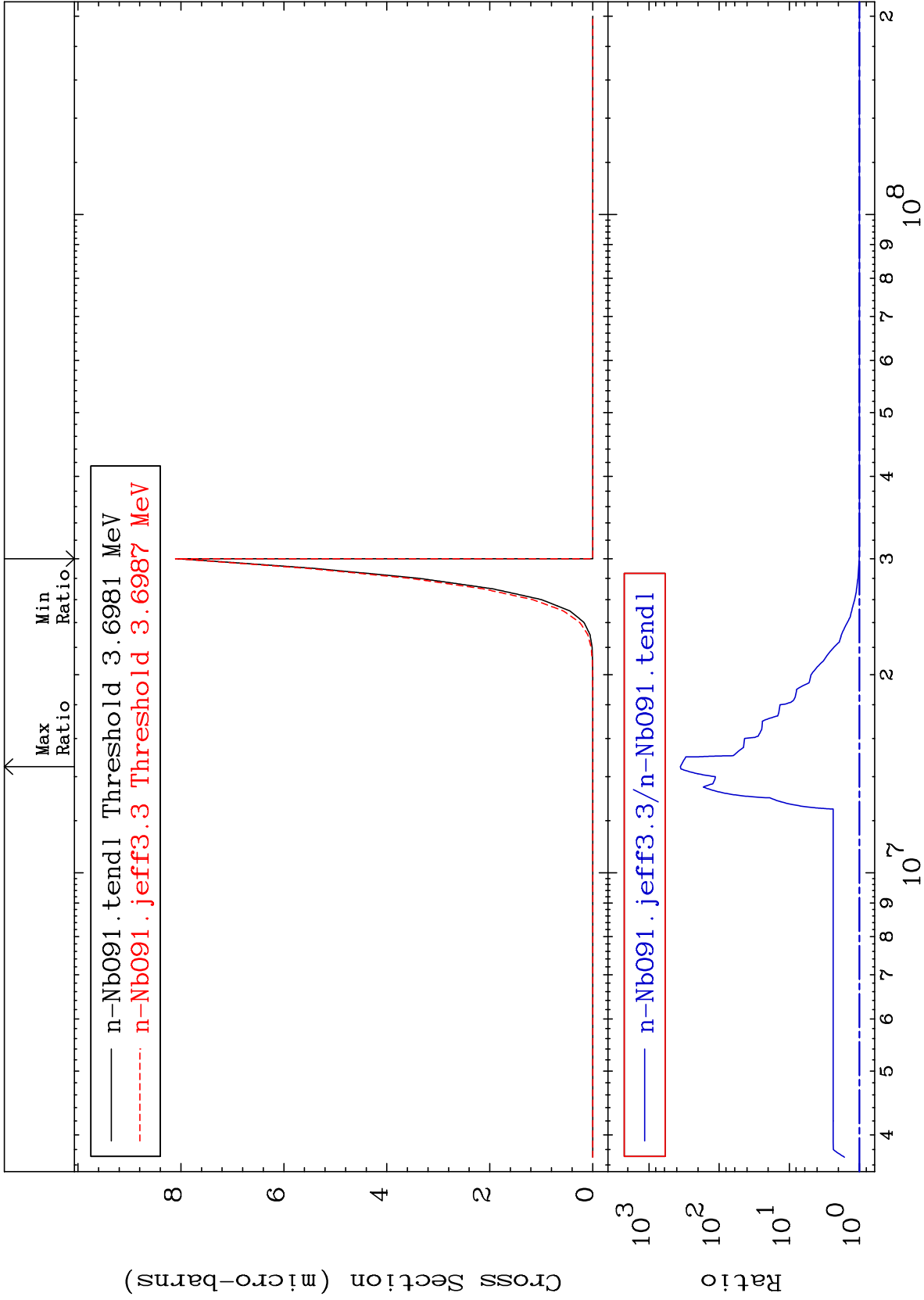
41-Nb-91

MAT 4119

41-Nb-91

(n,2α) : 37-Rb-84g

Radionuclide Production Cross Section 0.000 To 9999. %

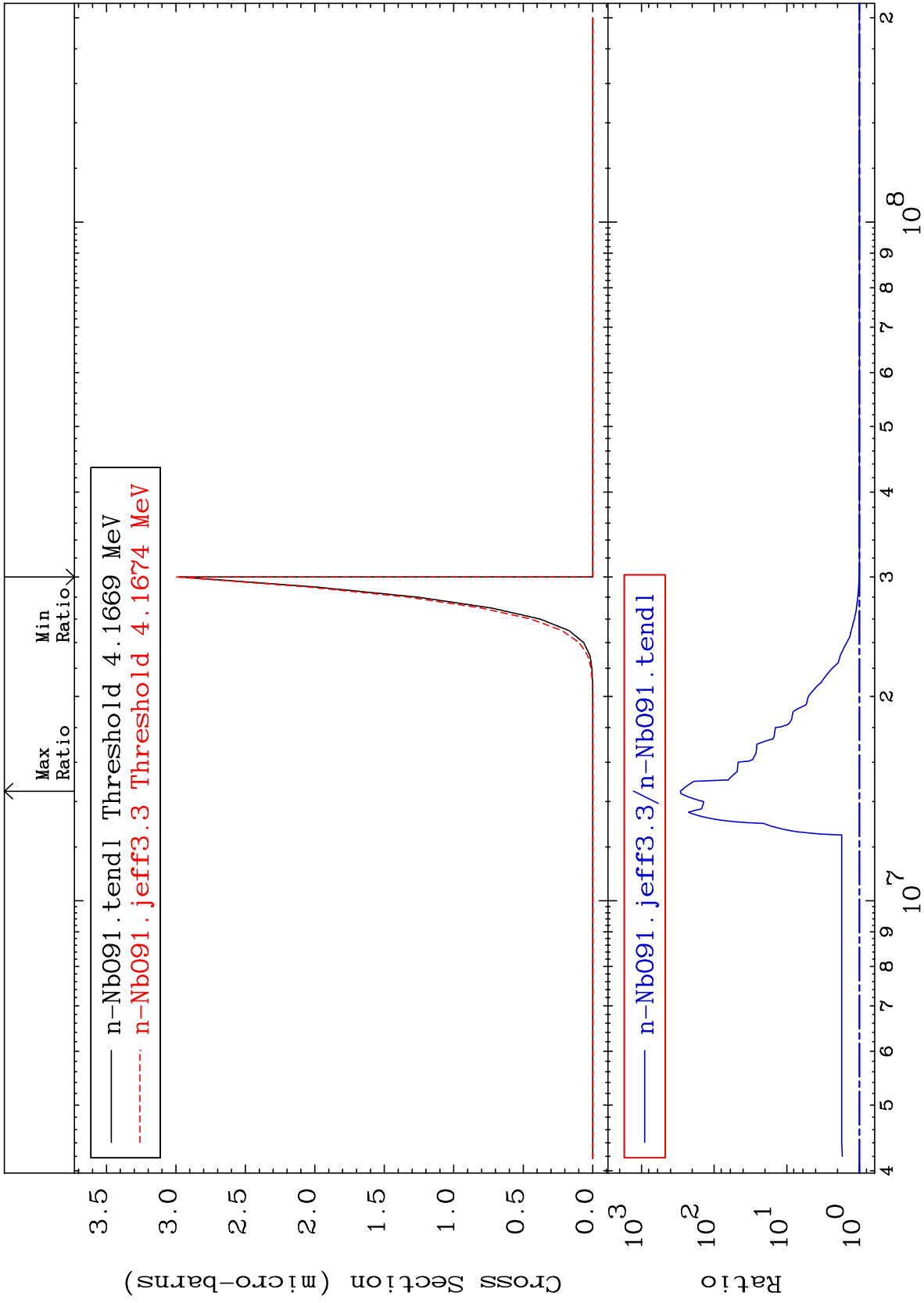


95

Incident Energy (eV)

41-Nb-91

Radionuclide Production Cross Section 0.000 To 9999. %

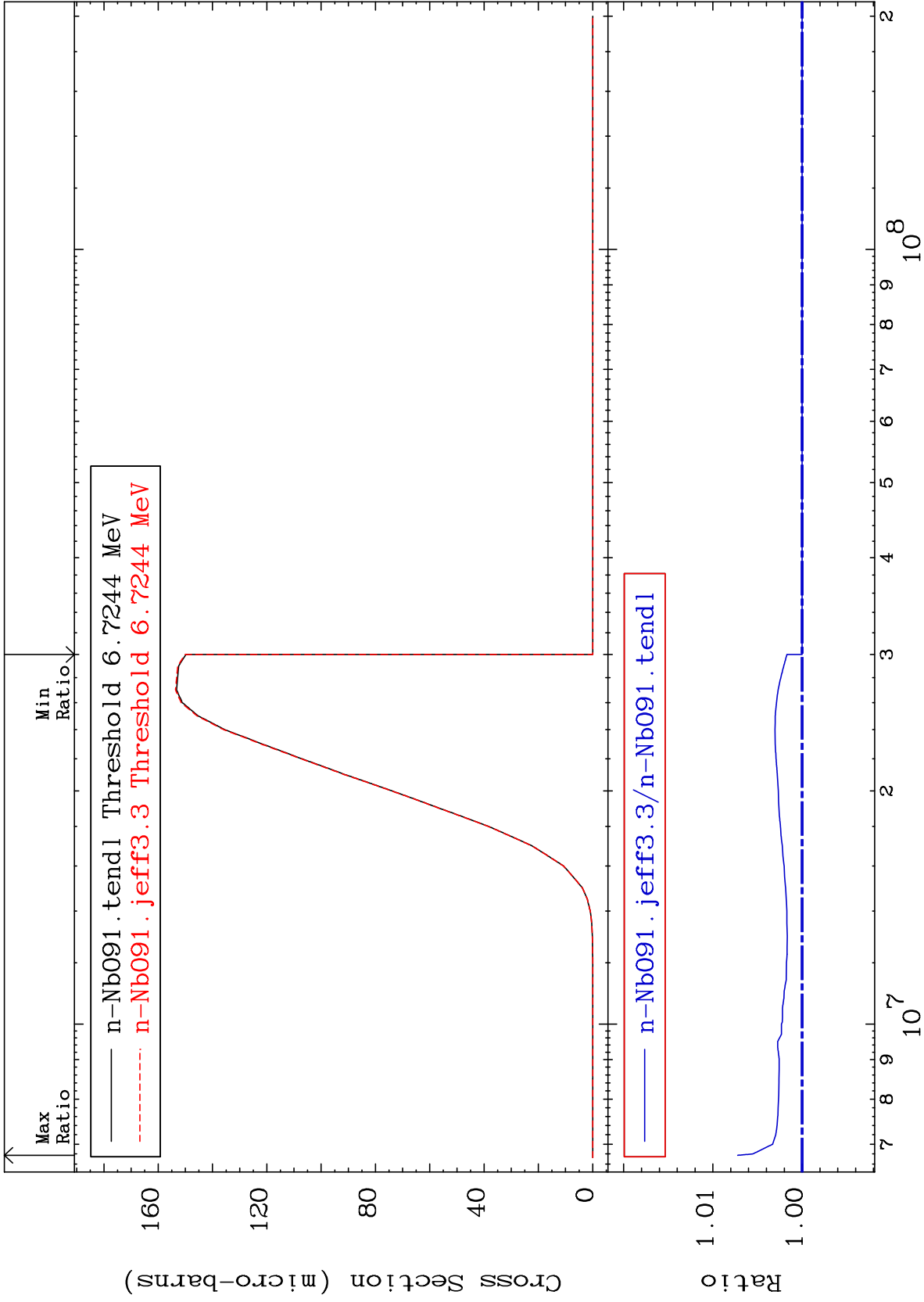


MAT 4119

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

41-Nb-91

Radionuclide Production Cross Section 0.000 To 0.722 %



97

Incident Energy (eV)

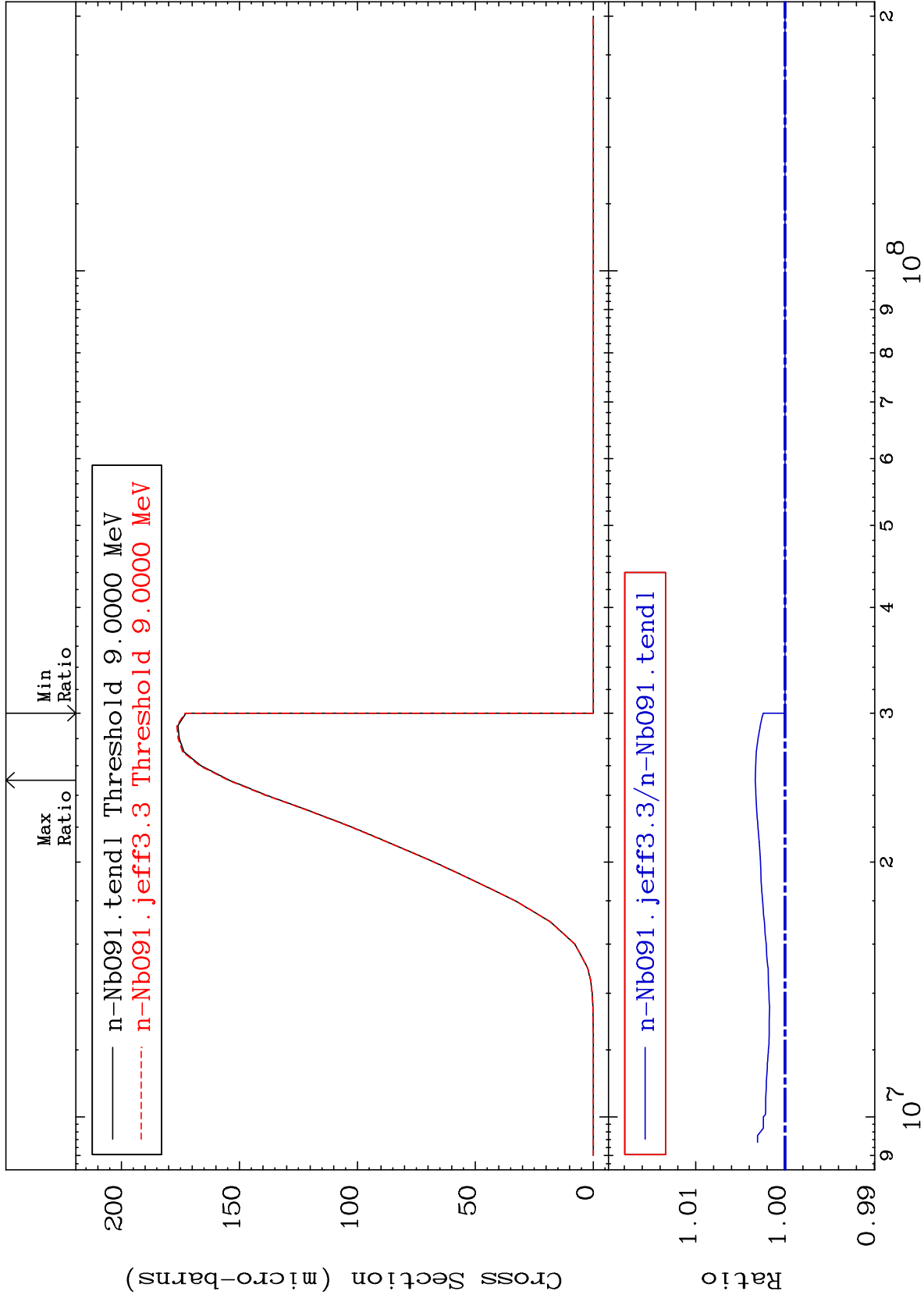
41-Nb-91

MAT 4119

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

41-Nb-91

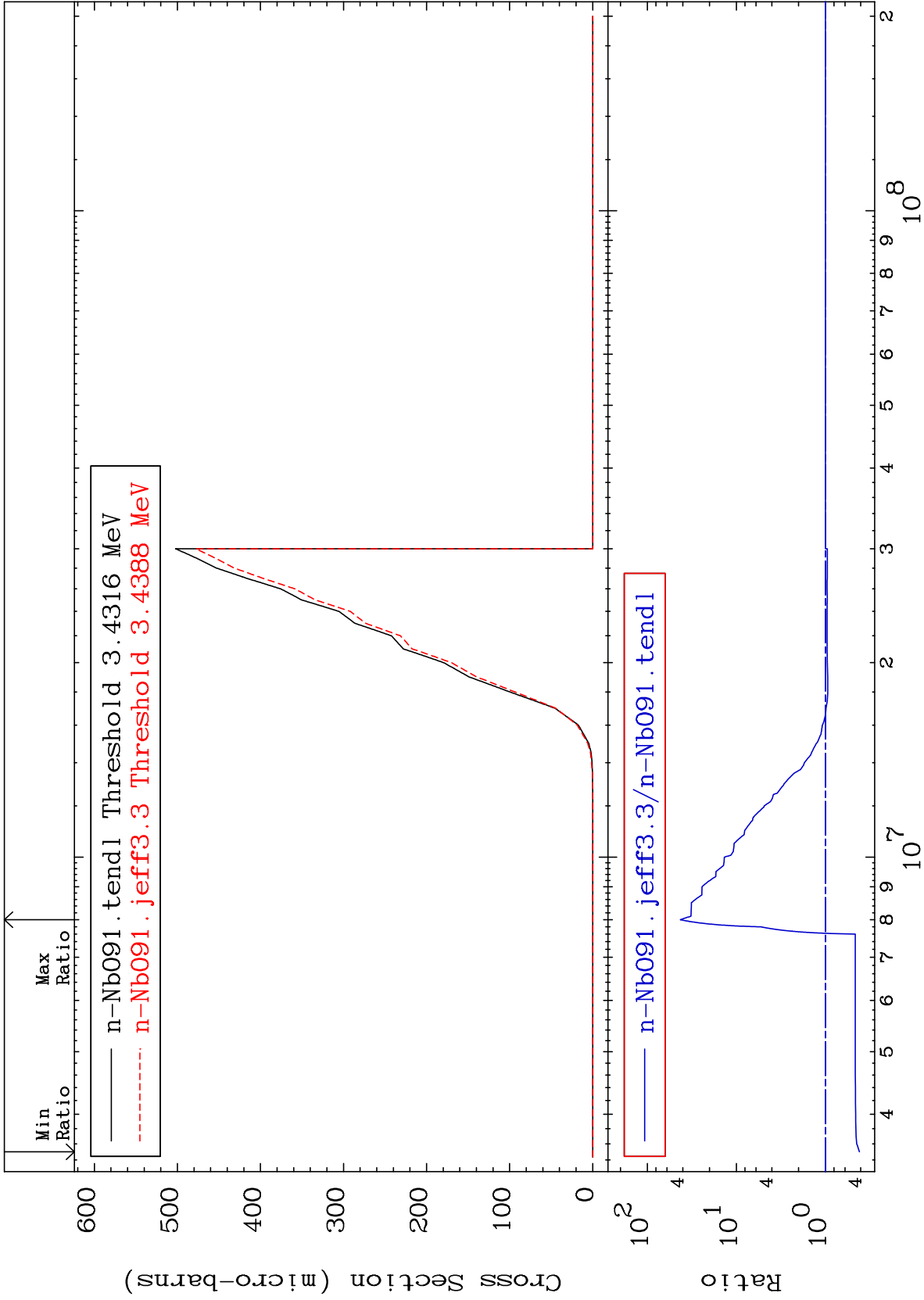
Radionuclide Production Cross Section 0.000 To 0.332 %



98

Incident Energy (eV)

41-Nb-91

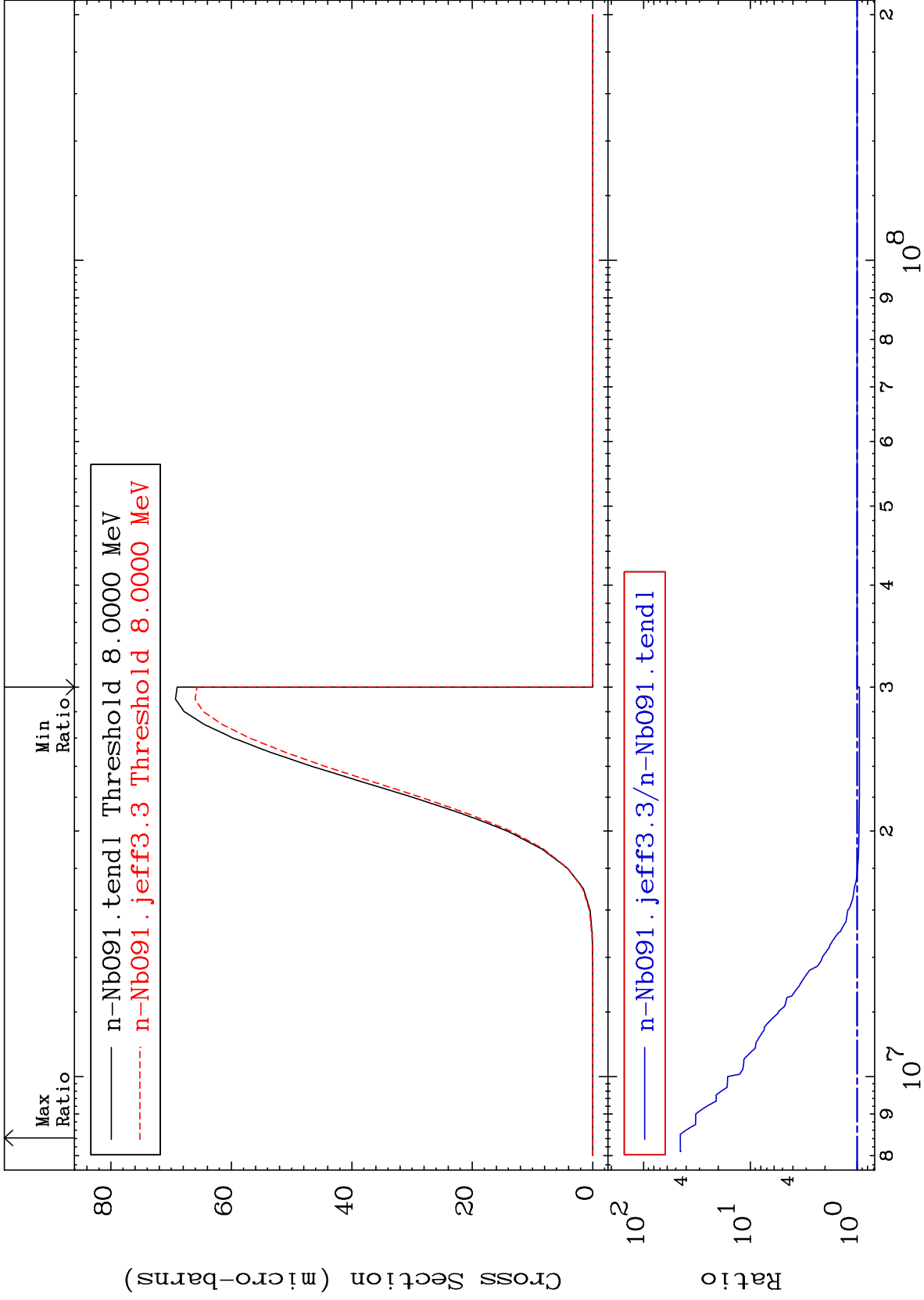


MAT 4119

(n, p) α :38-Sr-87m1

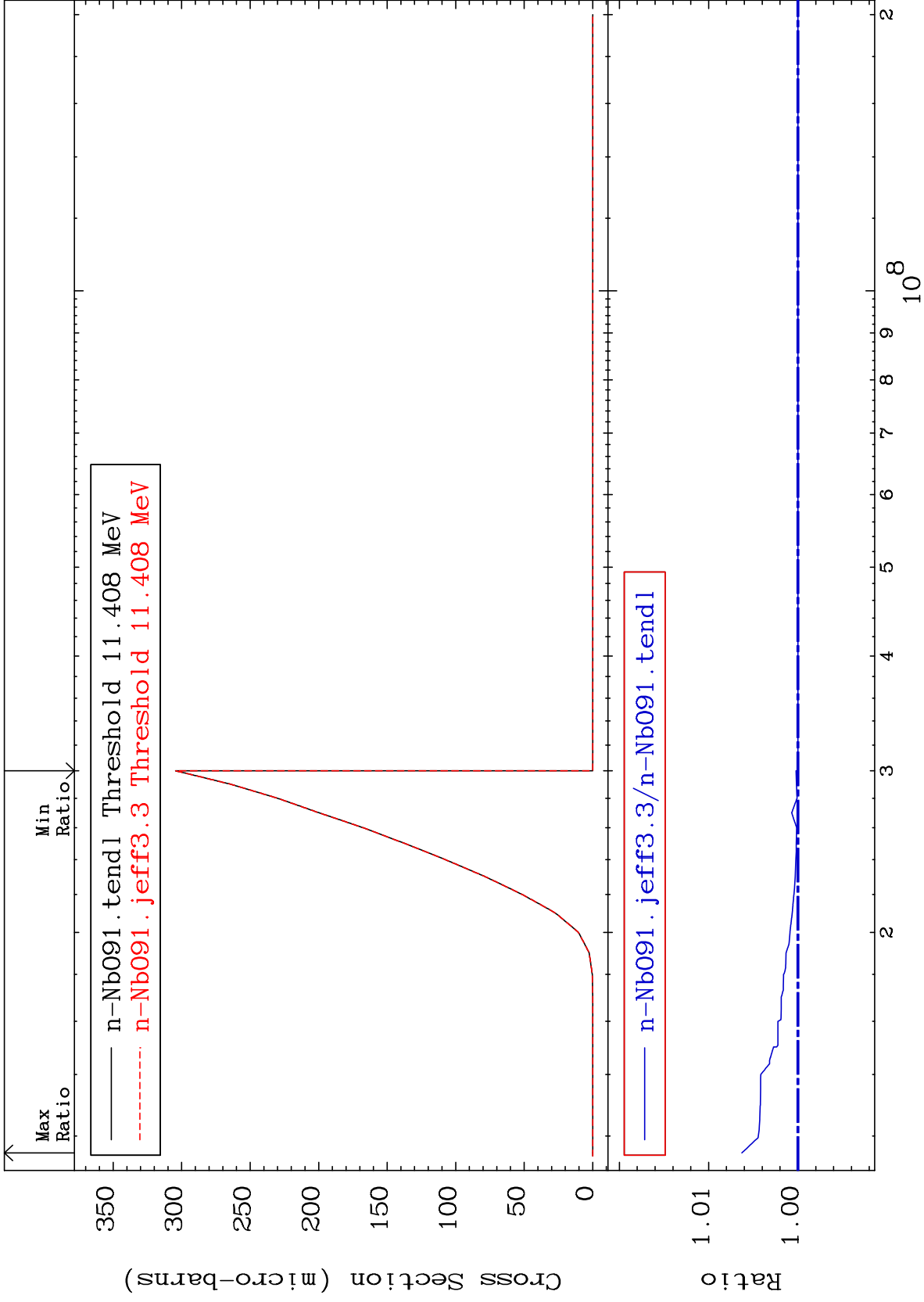
41-Nb-91

Radionuclide Production Cross Section -4.772 To 4422. %



MAT 4119

(n, p) d:39-Y -89g 41-Nb-91
Radionuclide Production Cross Section 0.000 To 0.628 %



101

Incident Energy (eV)

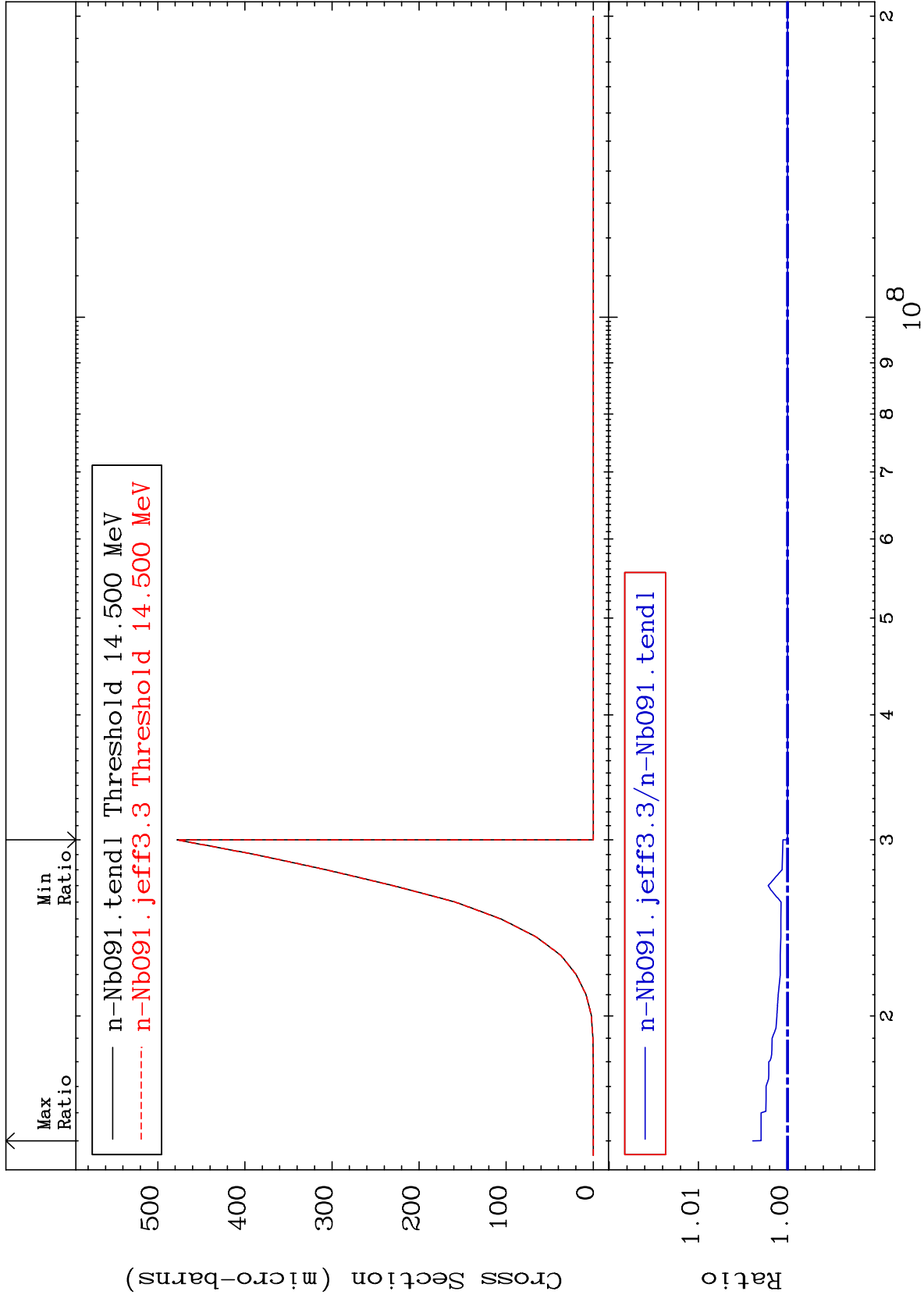
41-Nb-91

MAT 4119

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

41-Nb-91

Radionuclide Production Cross Section 0.000 To 0.390 %



102

Incident Energy (eV)

41-Nb-91