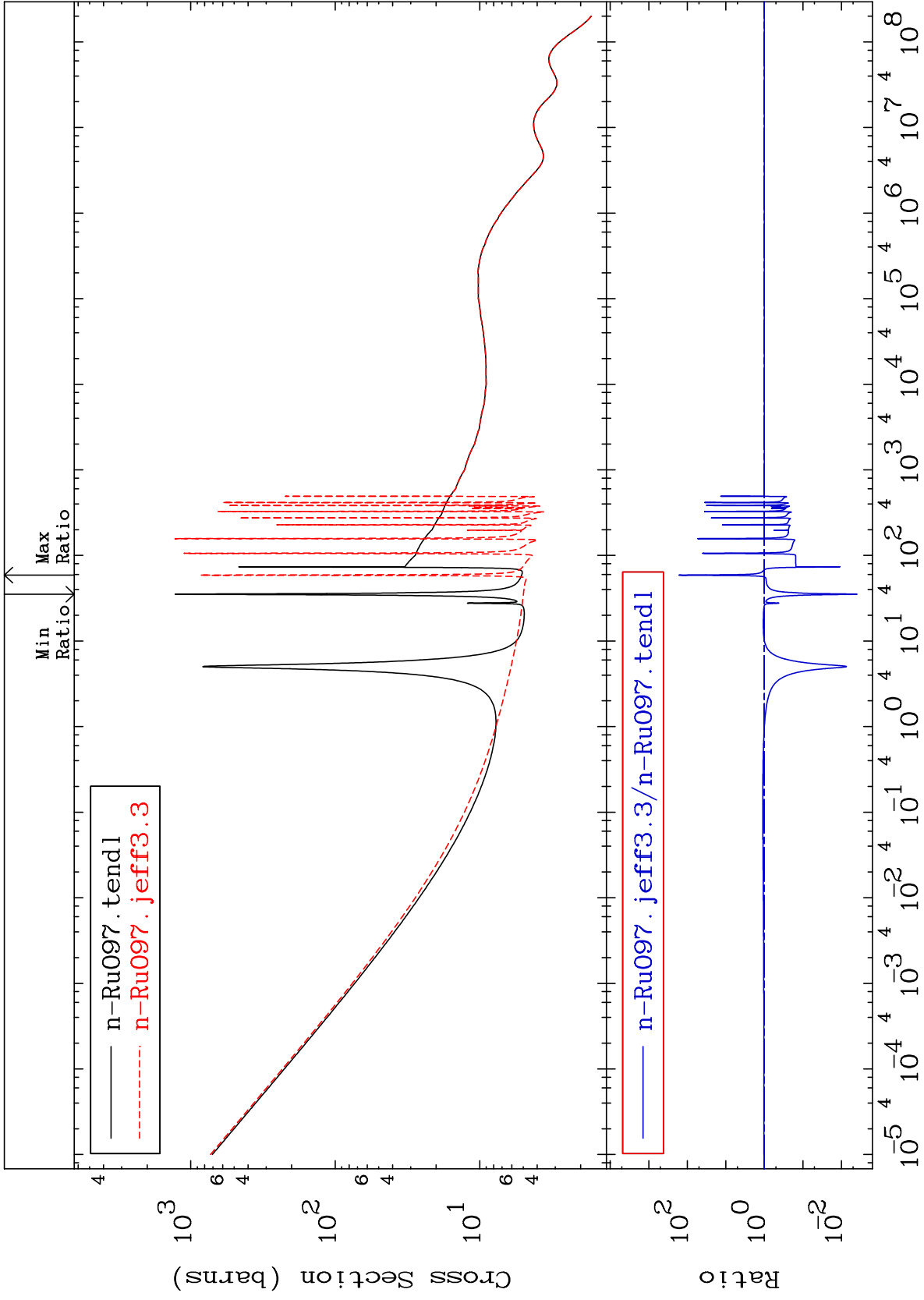


MAT 4428

44-Ru-97

-99.61 To 9999. %

Total
Cross Section



44-Ru-97

Incident Energy (eV)

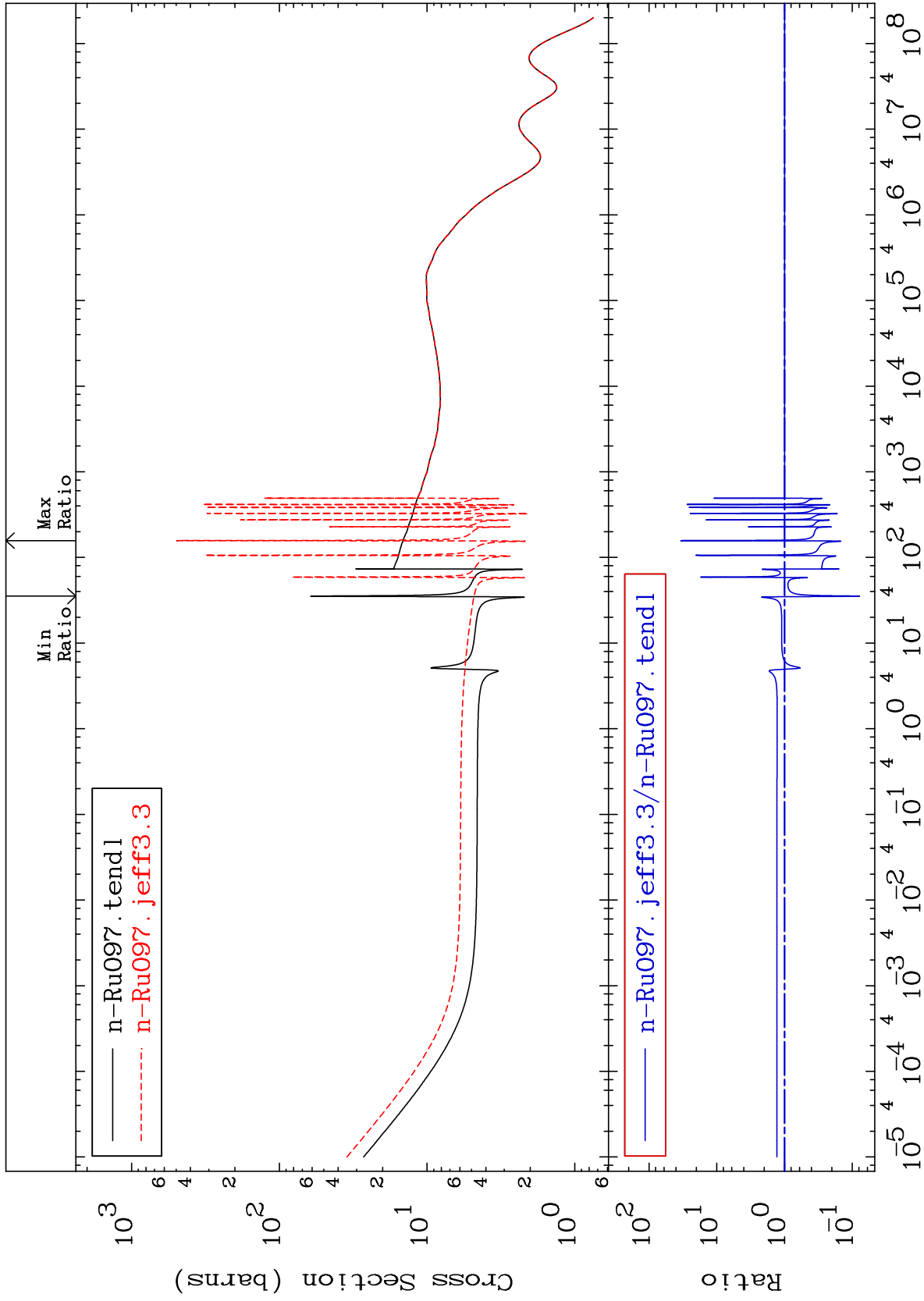
MAT 4428

Elastic

44-Ru-97

Cross Section

-92.18 To 3300. %



Incident Energy (eV)

44-Ru-97

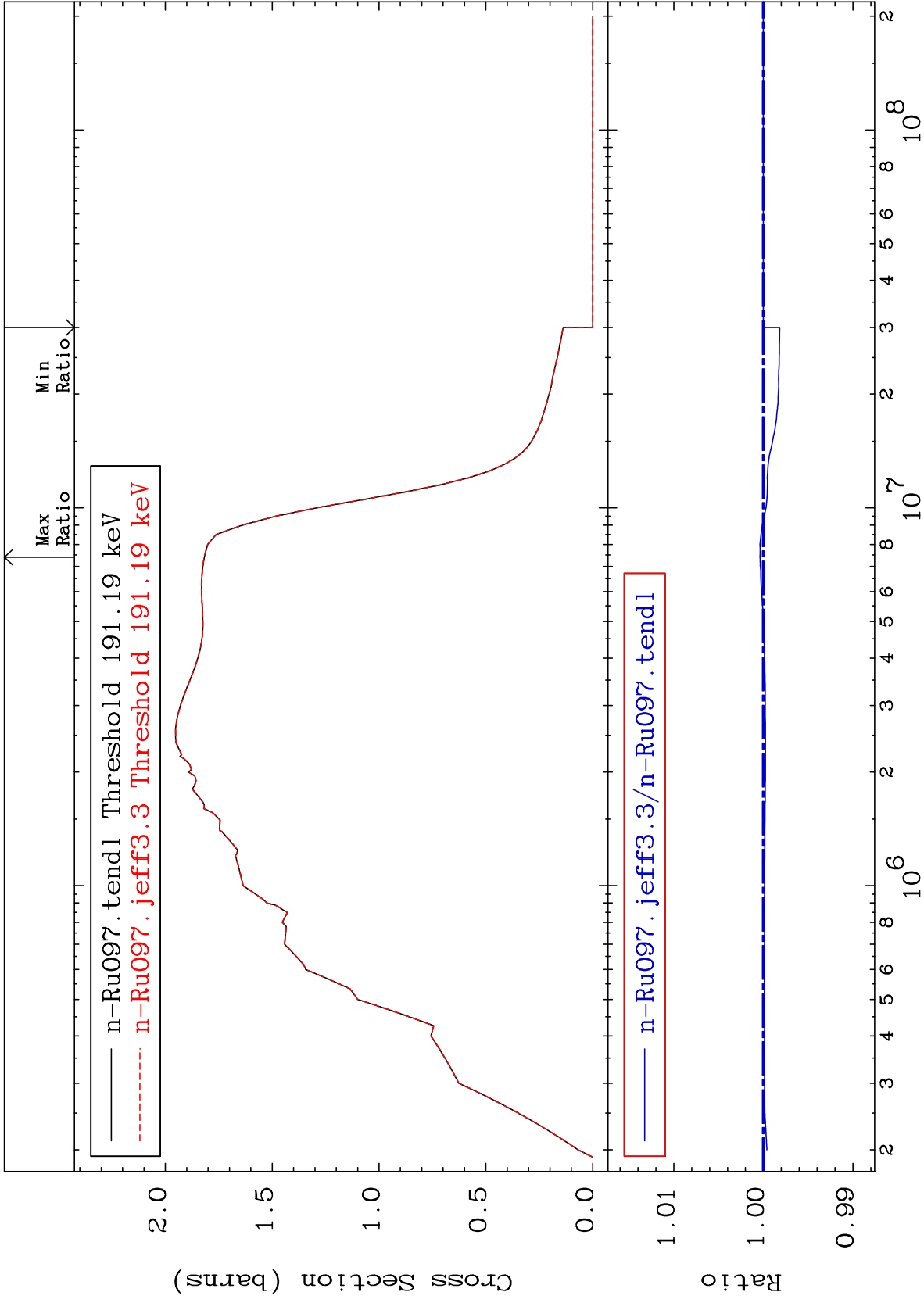
2

MAT 4428

44-Ru-97

Inelastic
Cross Section

-0.182 To 0.037 %



3

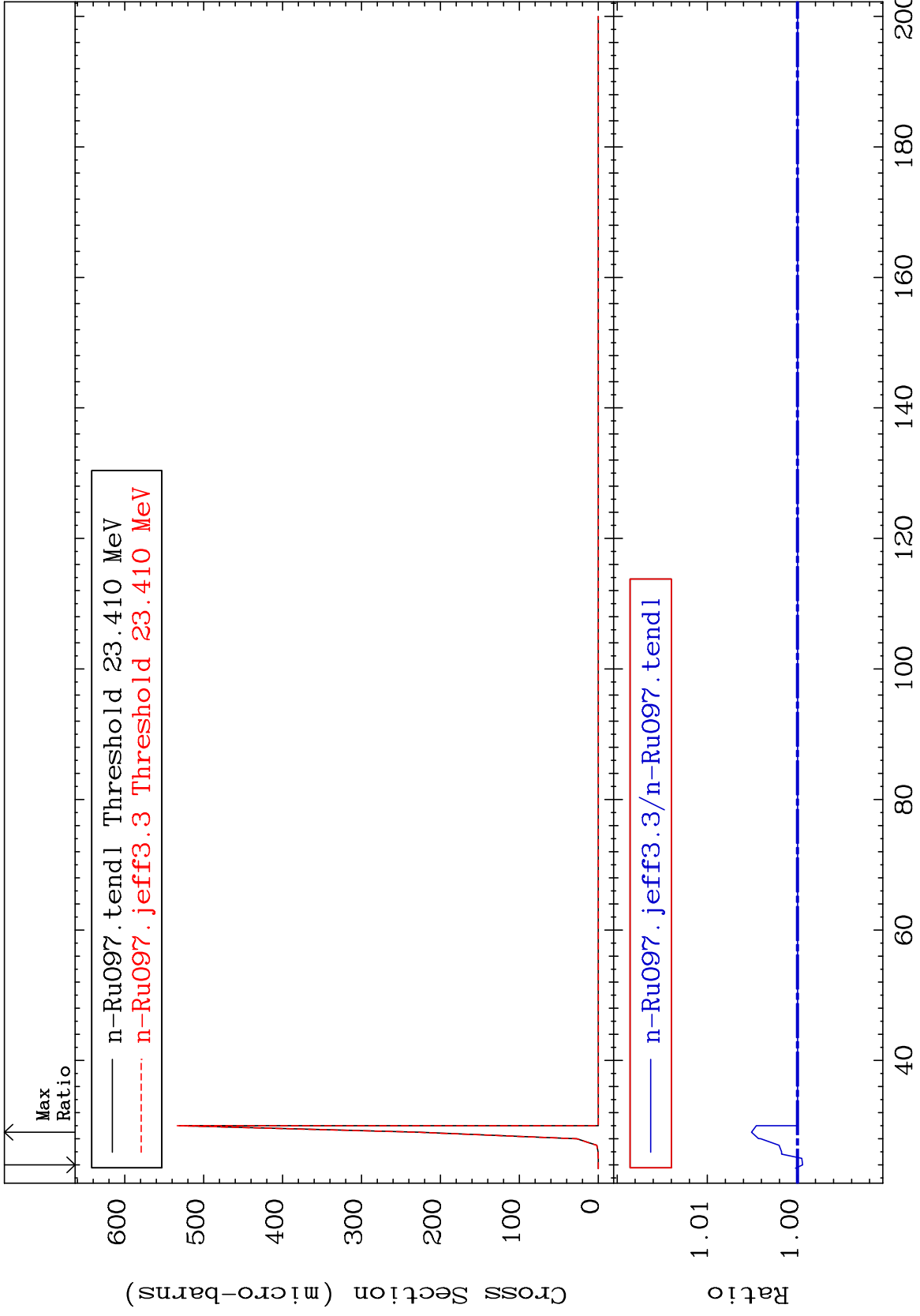
Incident Energy (eV)

44-Ru-97

MAT 4428

(n,2n) d
Cross Section

44-Ru-97
-0.056 To 0.509 %



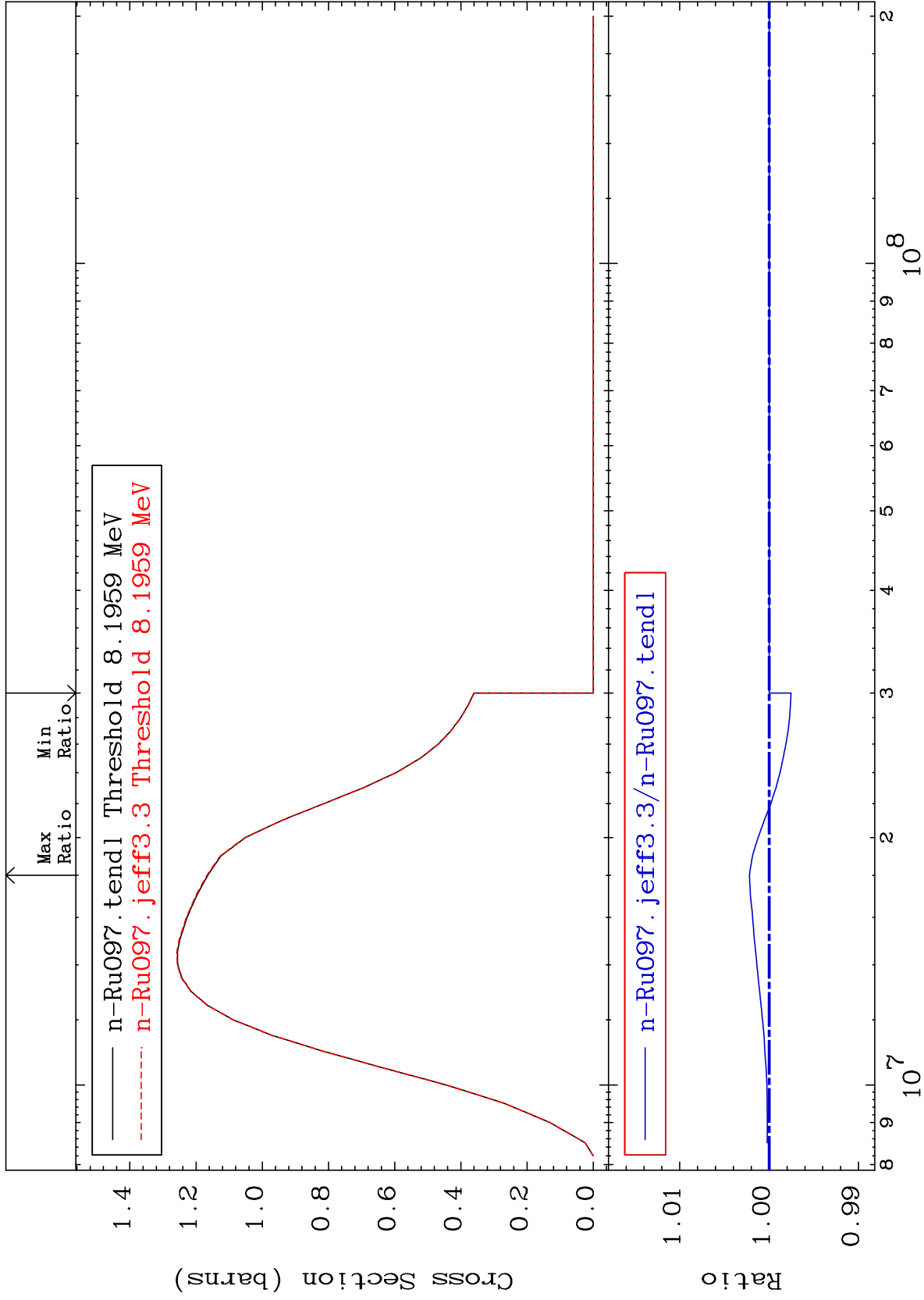
MAT 4428

(n,2n)

44-Ru-97

Cross Section

-0.244 To 0.222 %



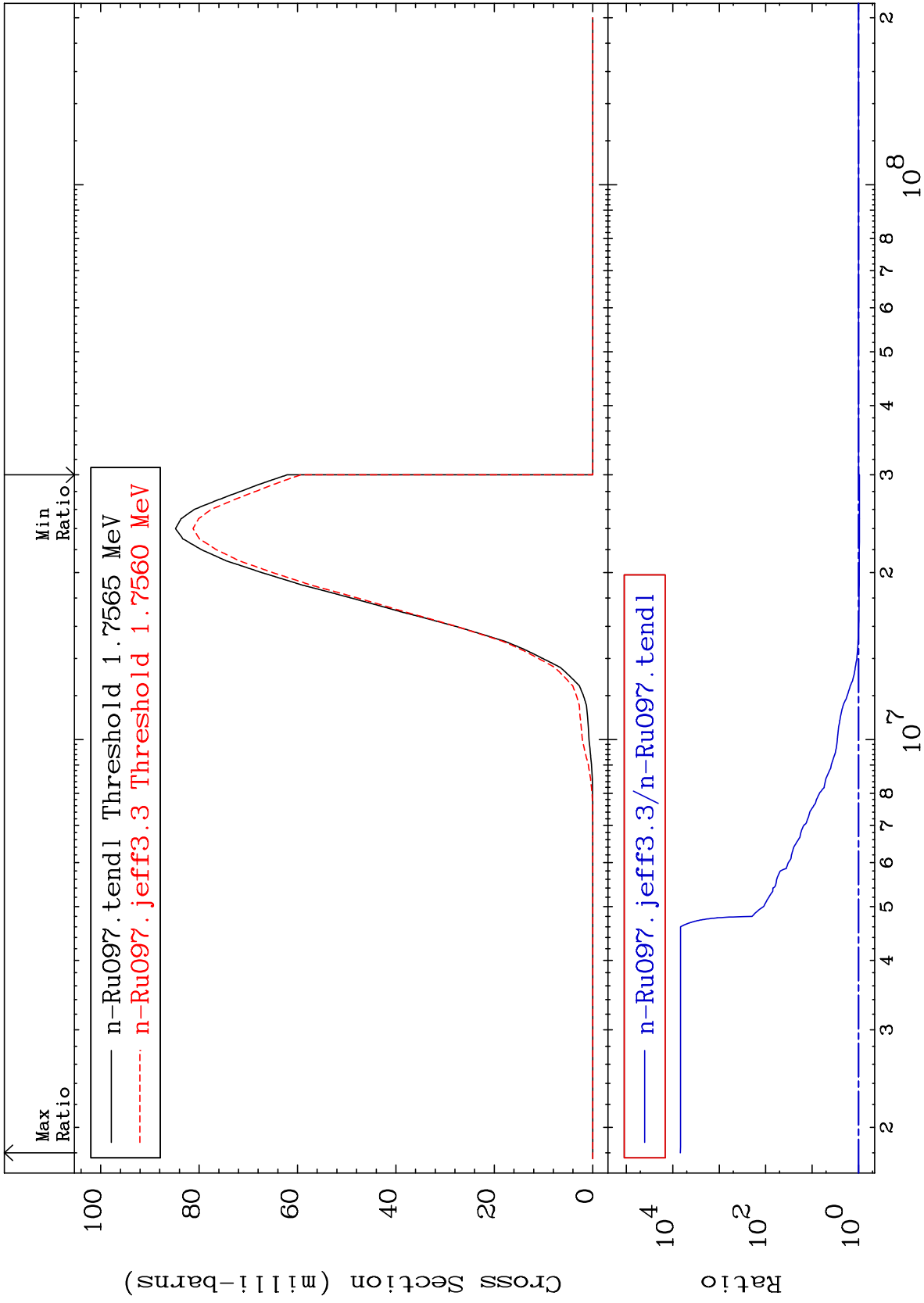
Incident Energy (eV)

44-Ru-97

MAT 4428

(n, n') α
Cross Section

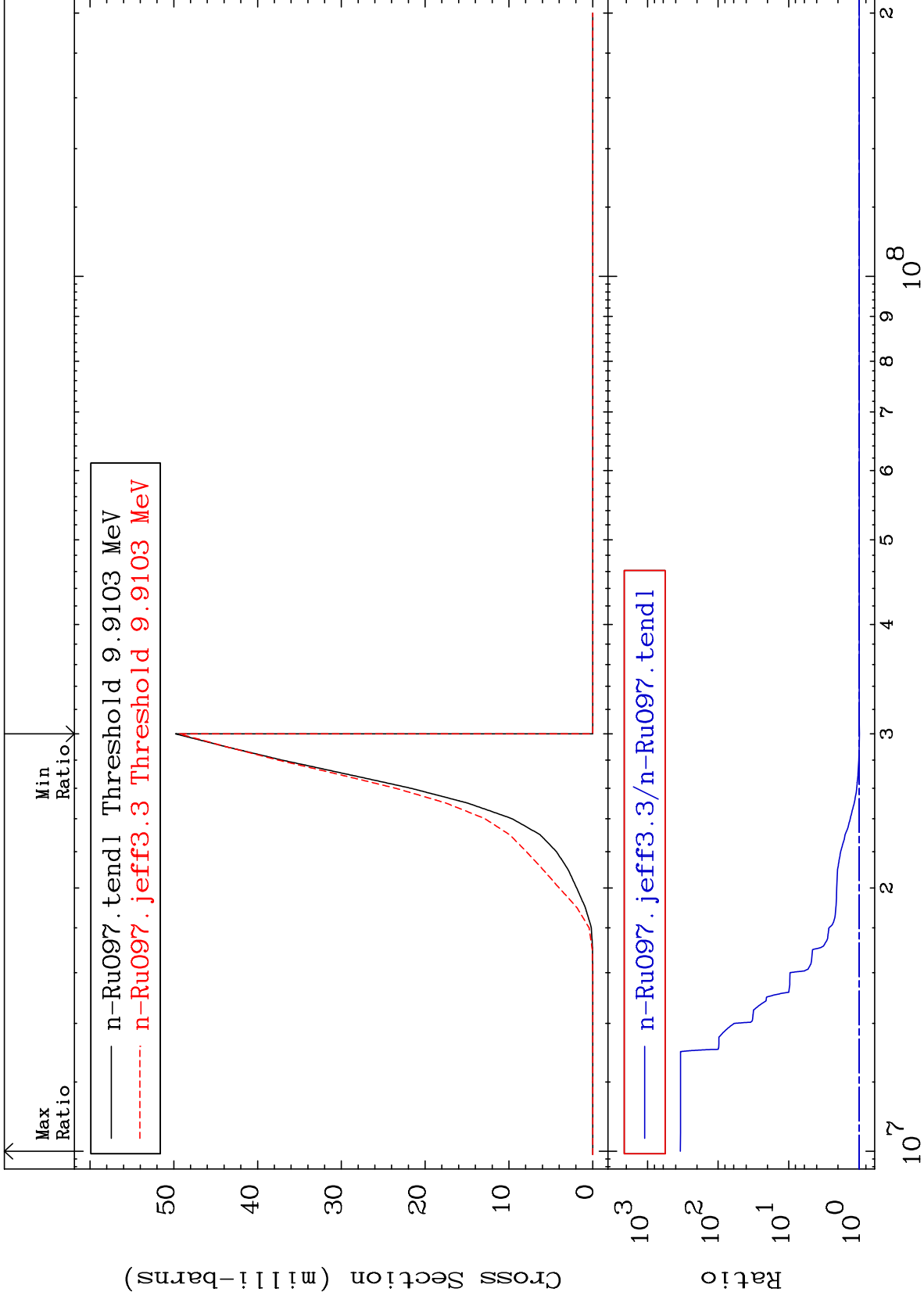
44-Ru-97
-4.434 To 9999. %



MAT 4428

(n,2n) α
Cross Section

44-Ru-97
-0.901 To 9999. %

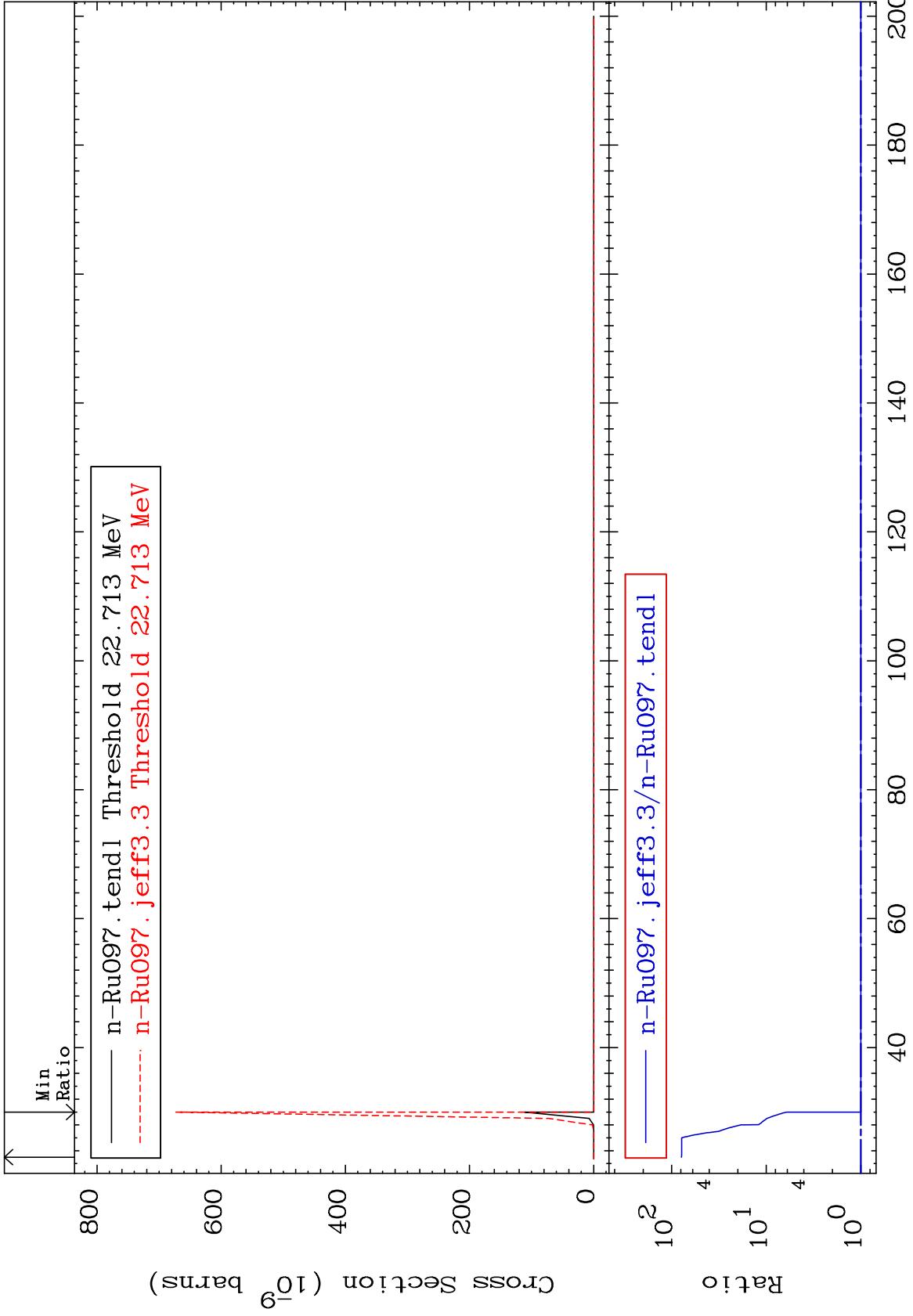


44-Ru-97

MAT 4428

(n,3n) α
Cross Section

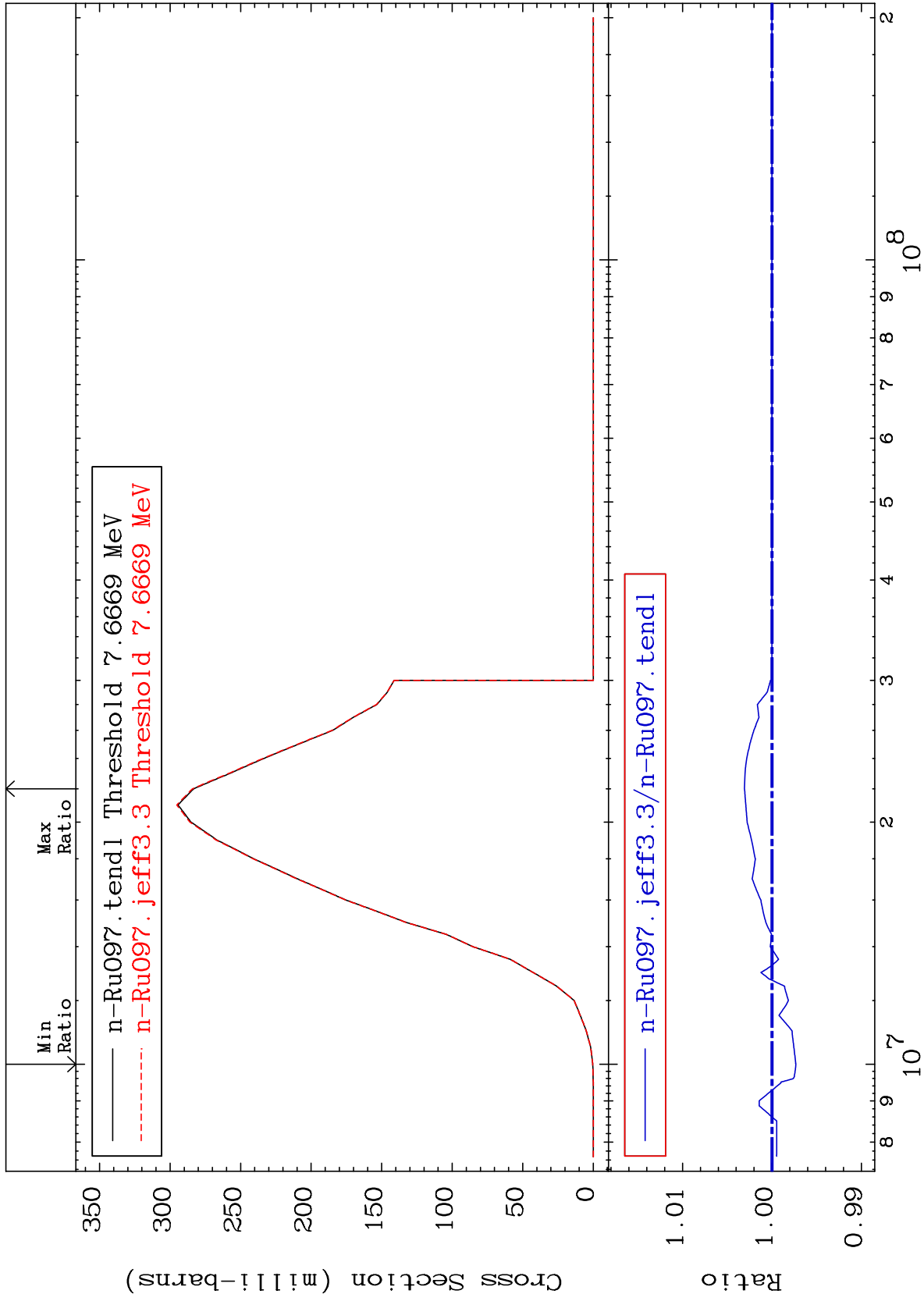
44-Ru-97
To 7771. %
0.000

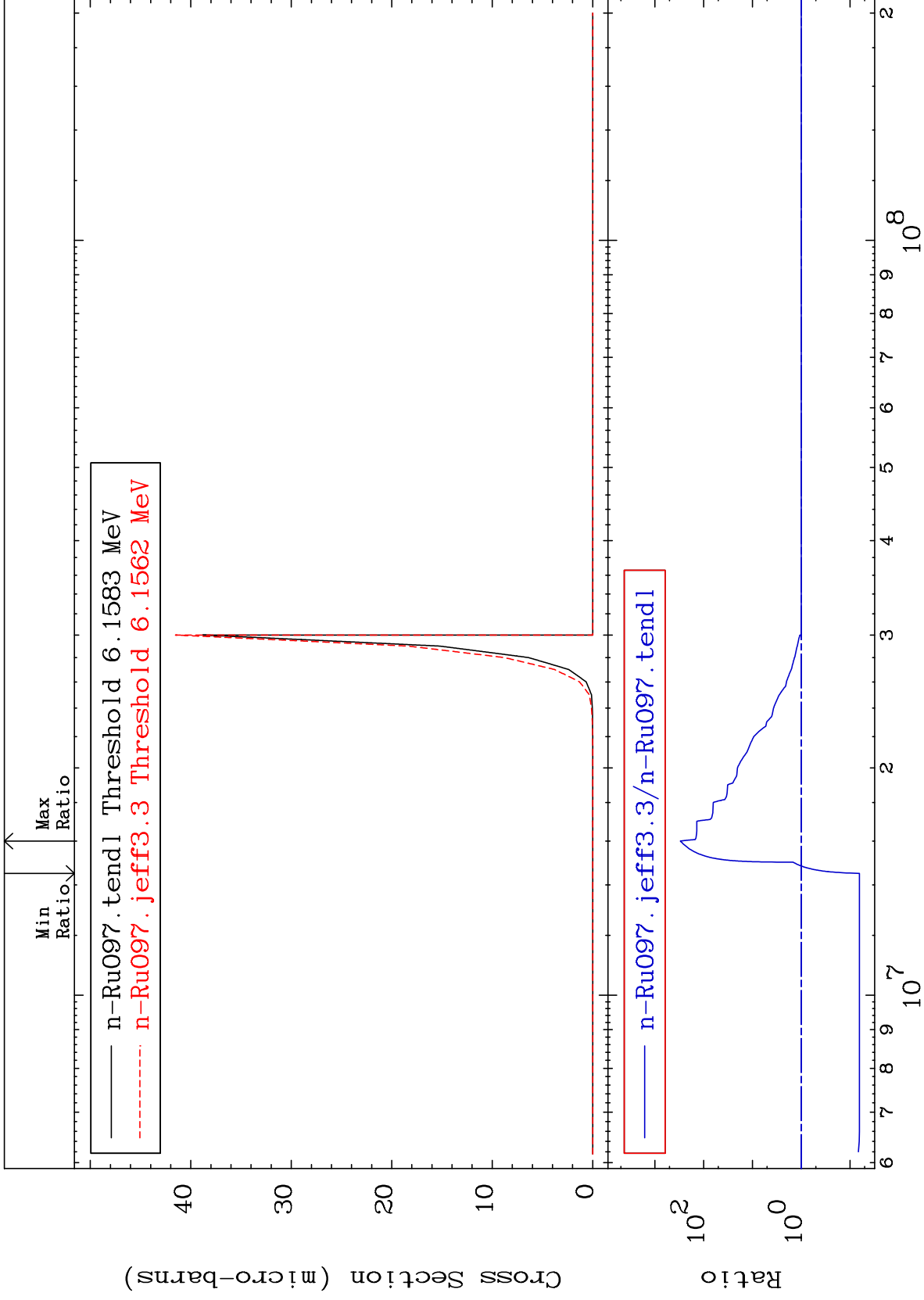


MAT 4428

(n,n') p
Cross Section

44-Ru-97
-0.267 To 0.307 %





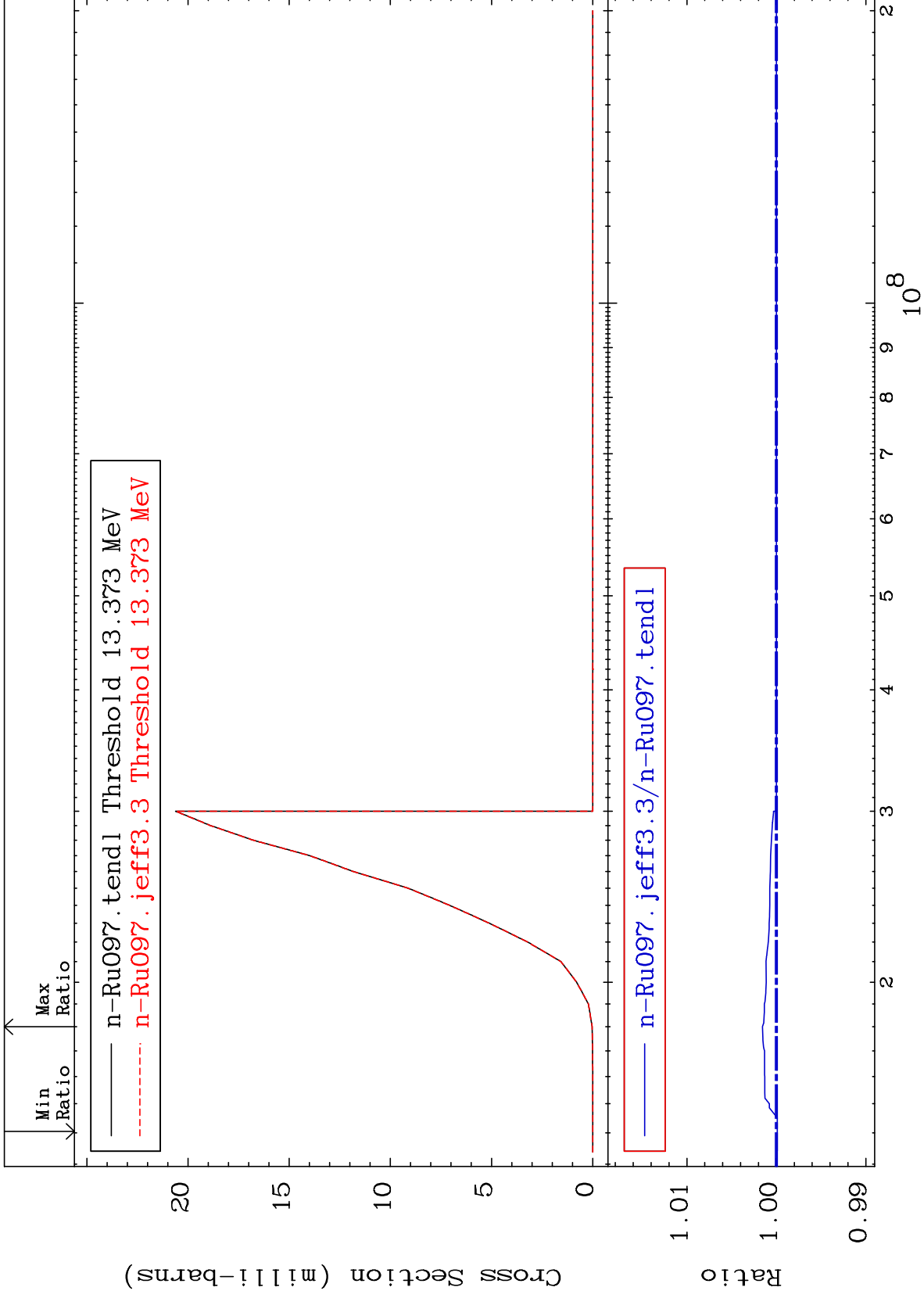
MAT 4428

(n, n') d

44-Ru-97

Cross Section

-0.011 To 0.156 %



12

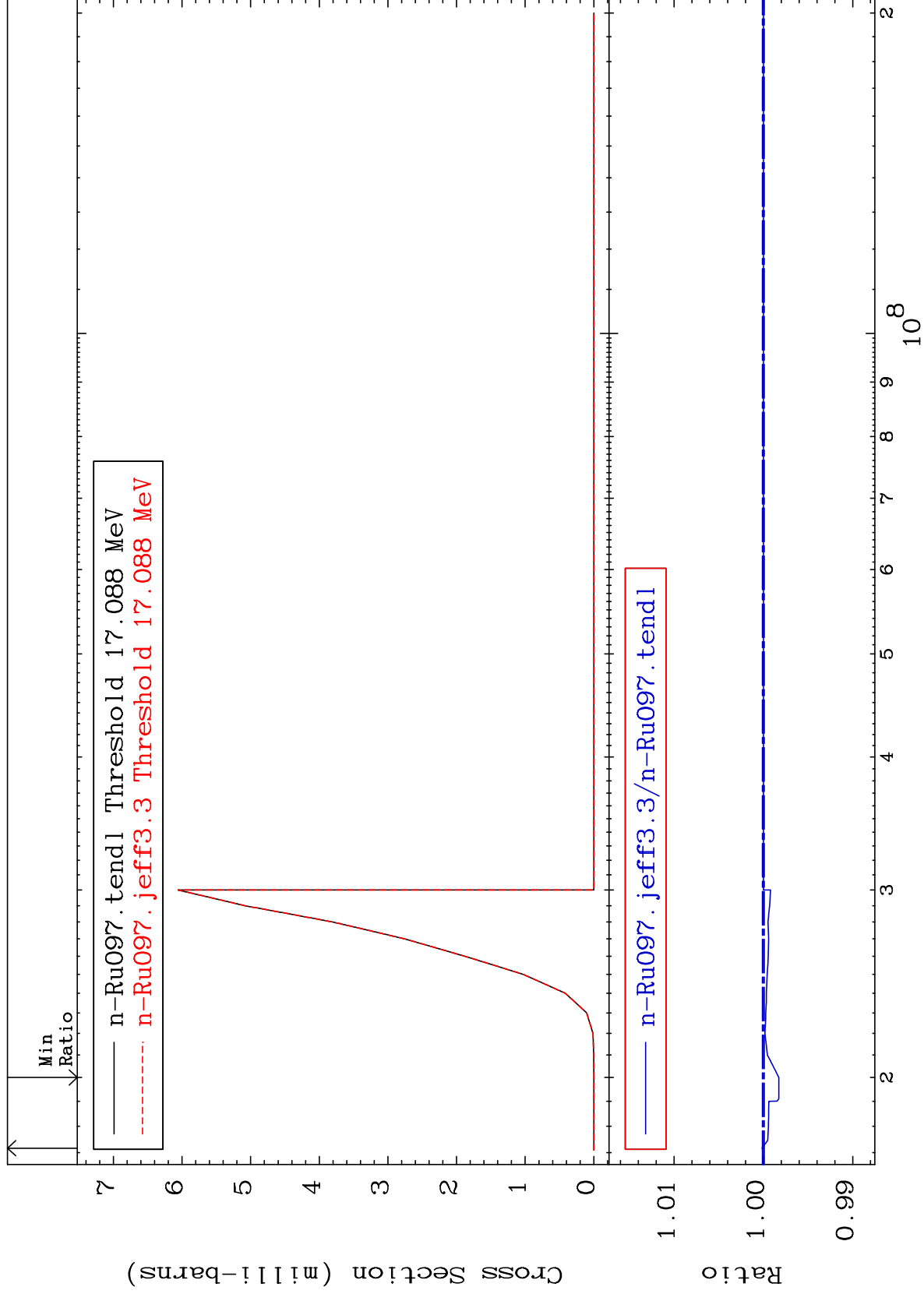
Incident Energy (eV)

44-Ru-97

MAT 4428

(n,n') t
Cross Section

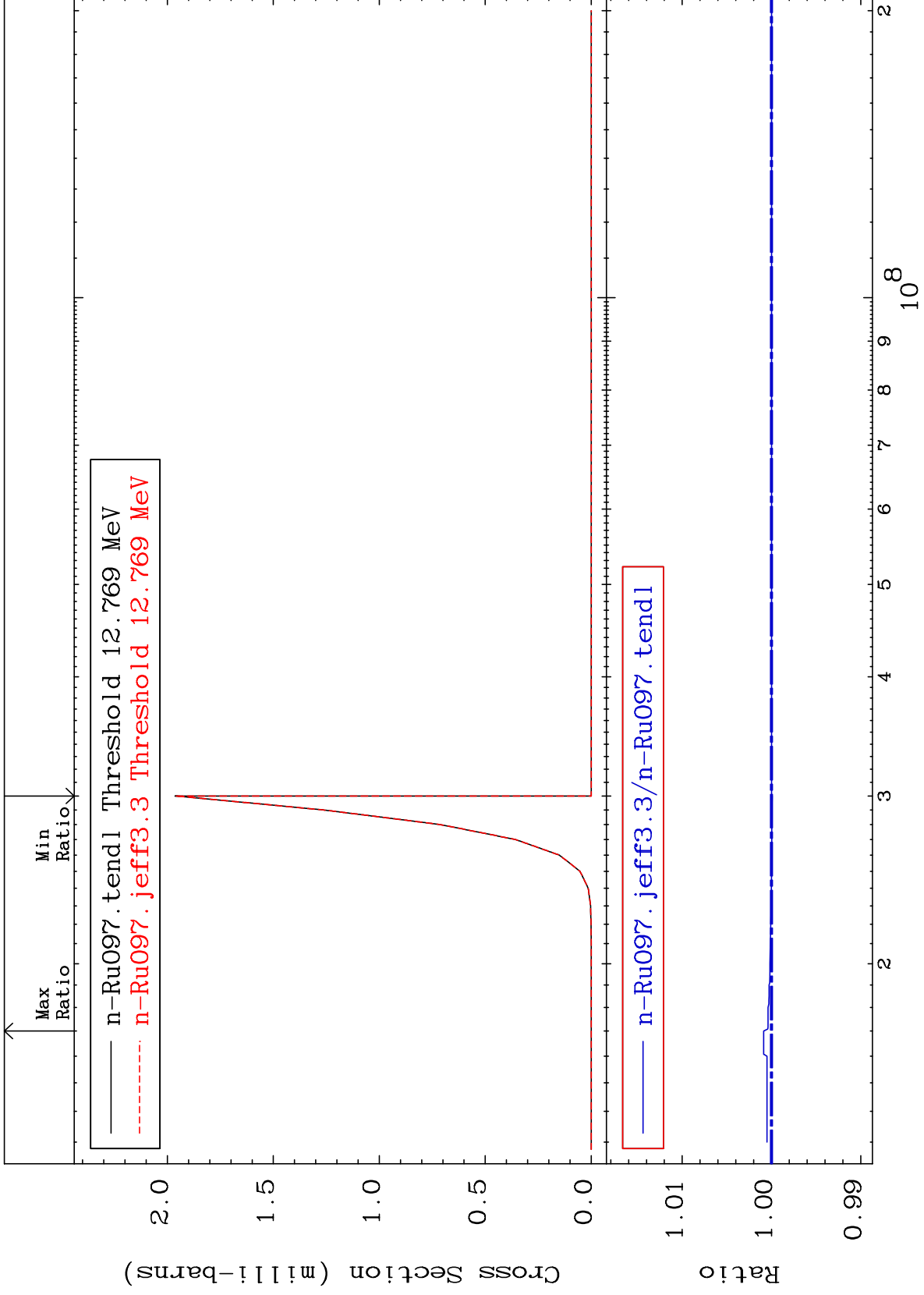
44-Ru-97
-0.173 To 0.015 %



MAT 4428

(n, n') He-3
Cross Section

44-Ru-97
-0.009 To 0.088 %



MAT 4428

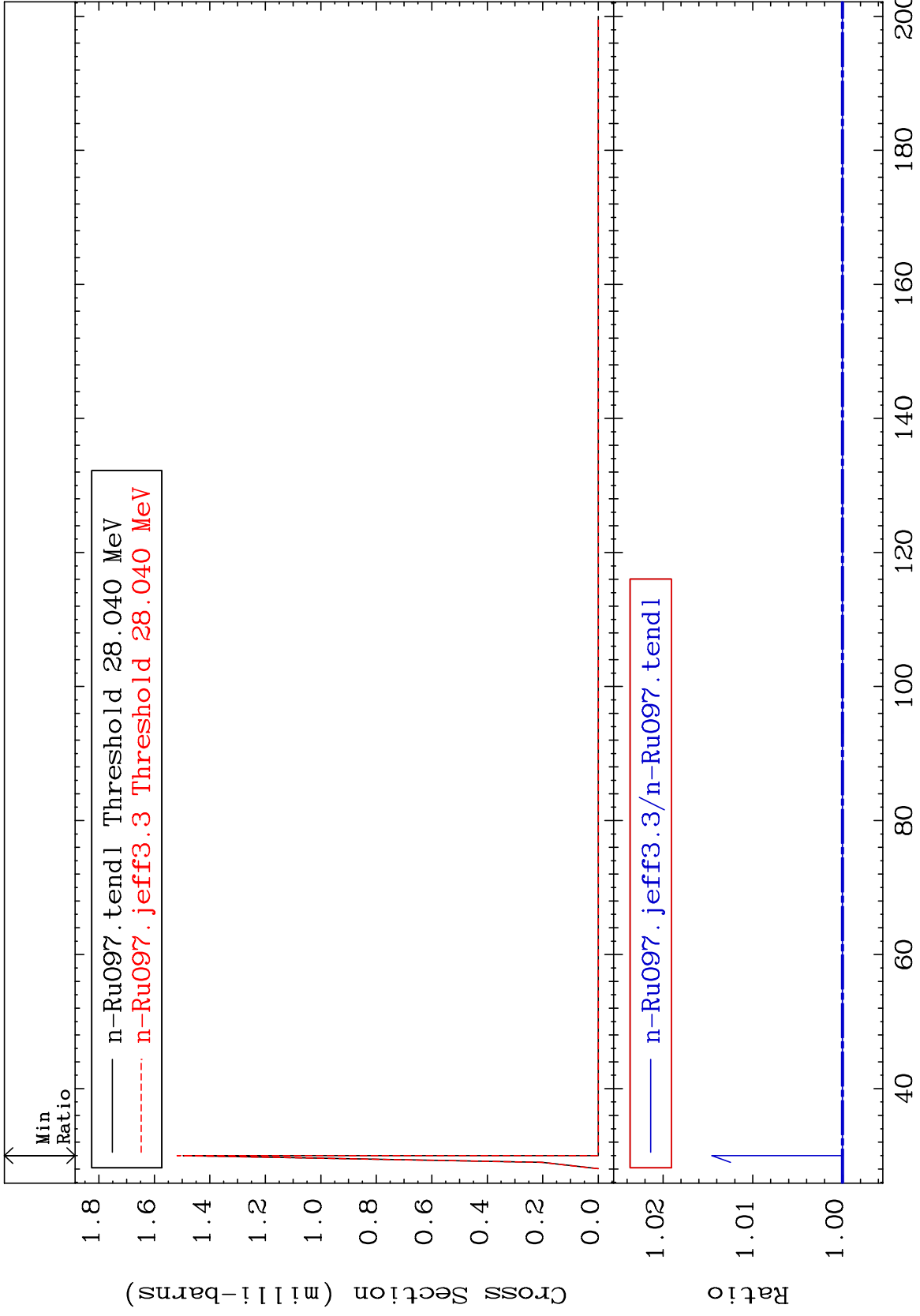
(n,4n)

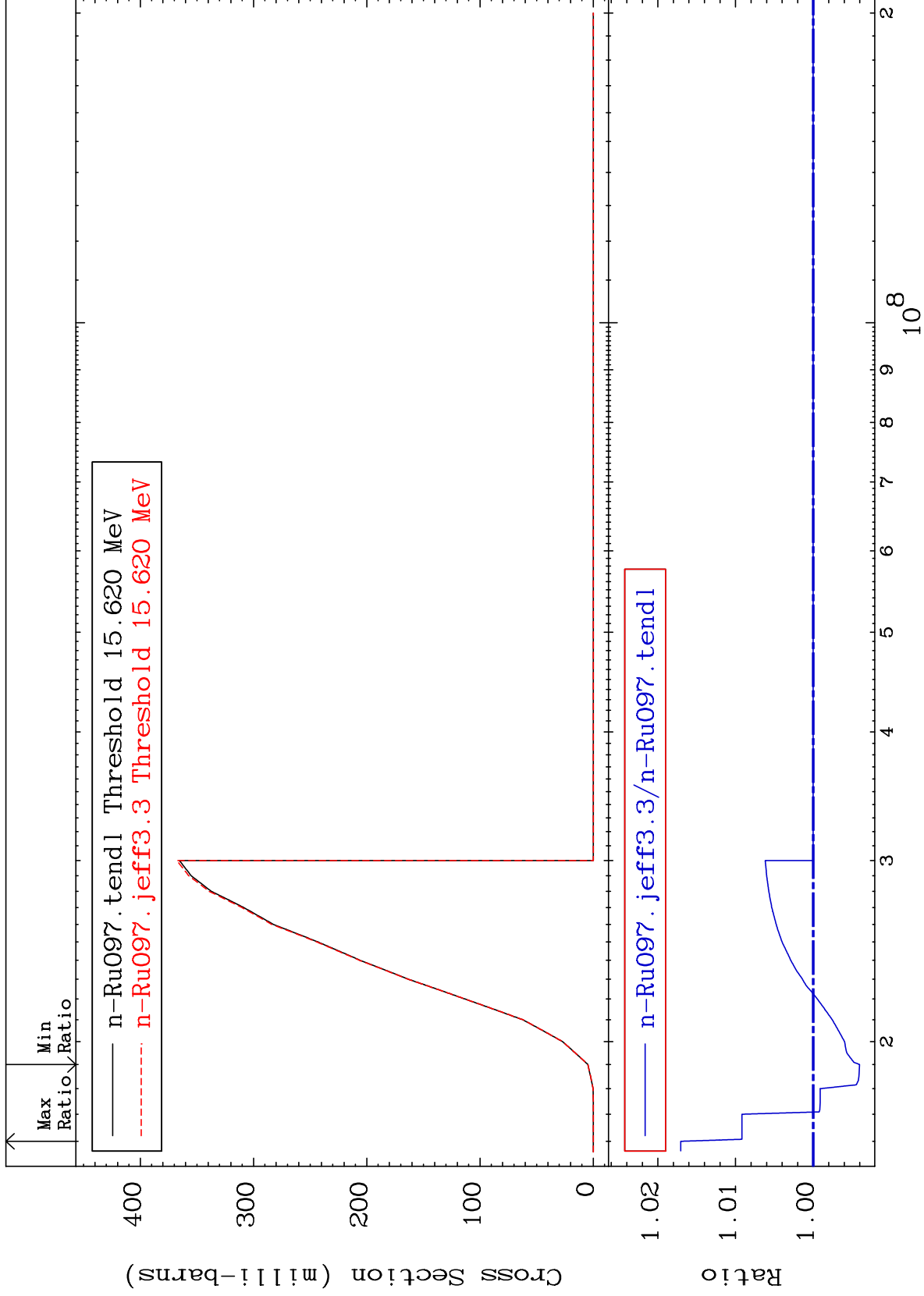
44-Ru-97

Cross Section

0.000

To 1.458 %

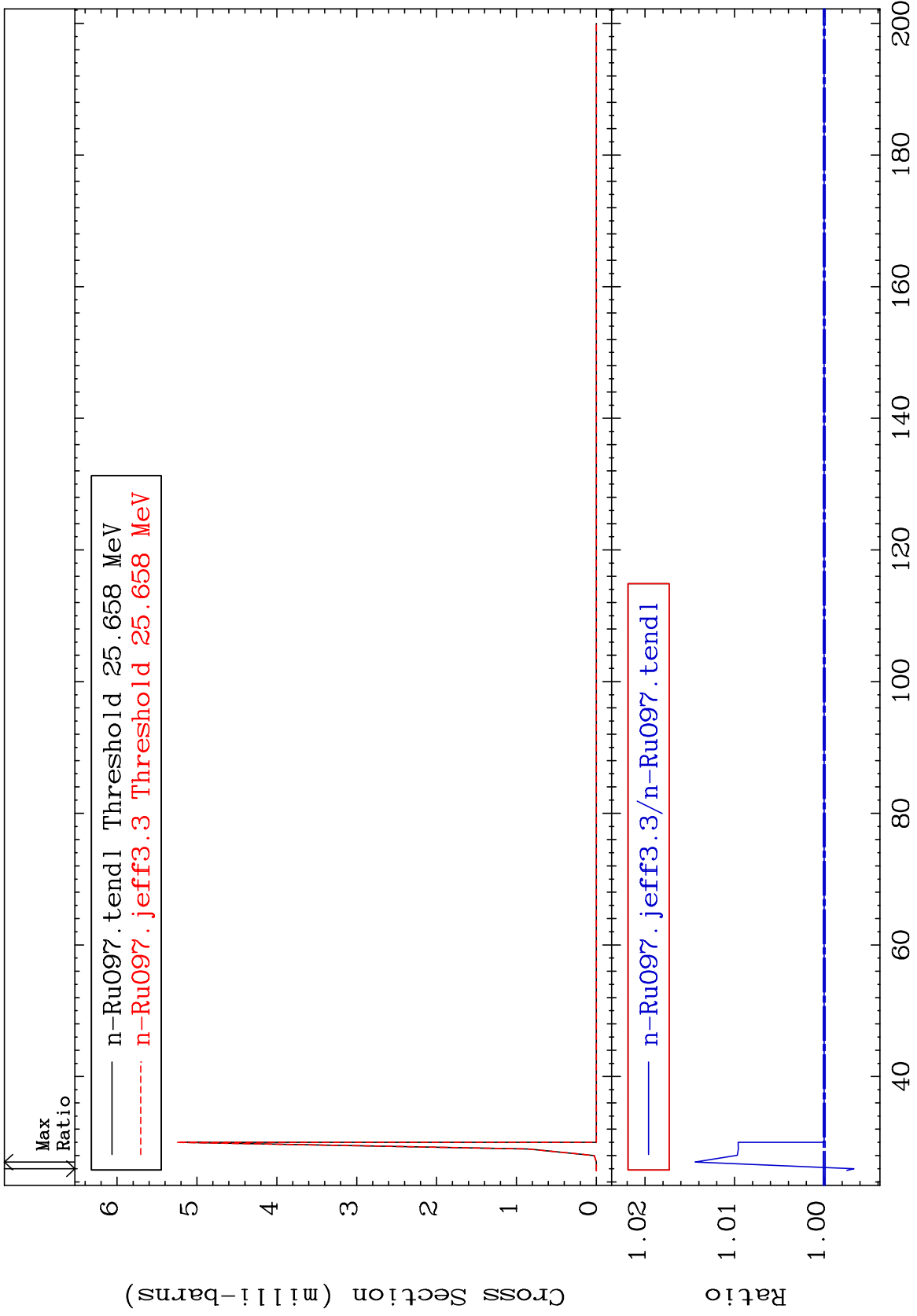




MAT 4428

(n,3n) p
Cross Section

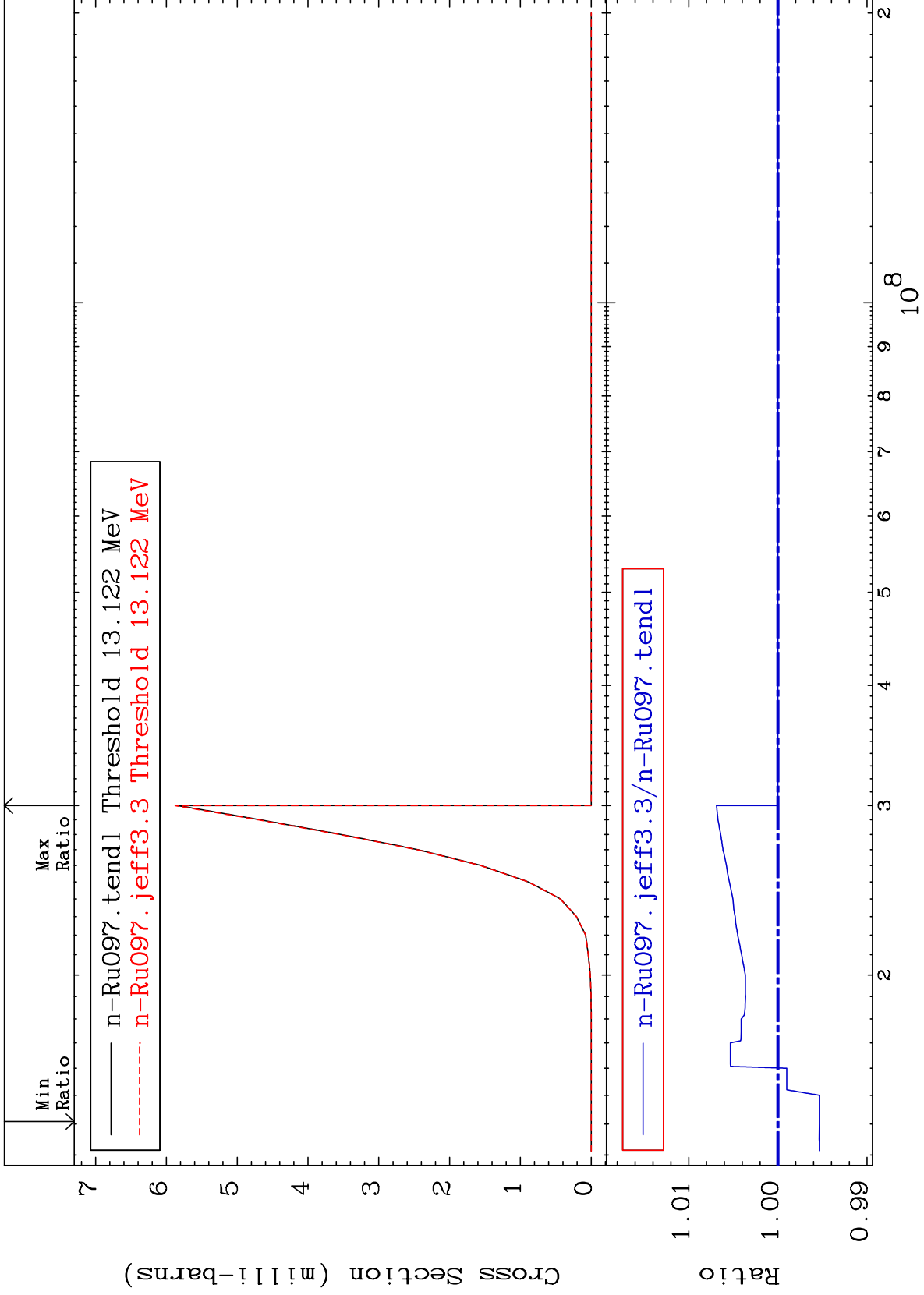
44-Ru-97
-0.331 To 1.441 %

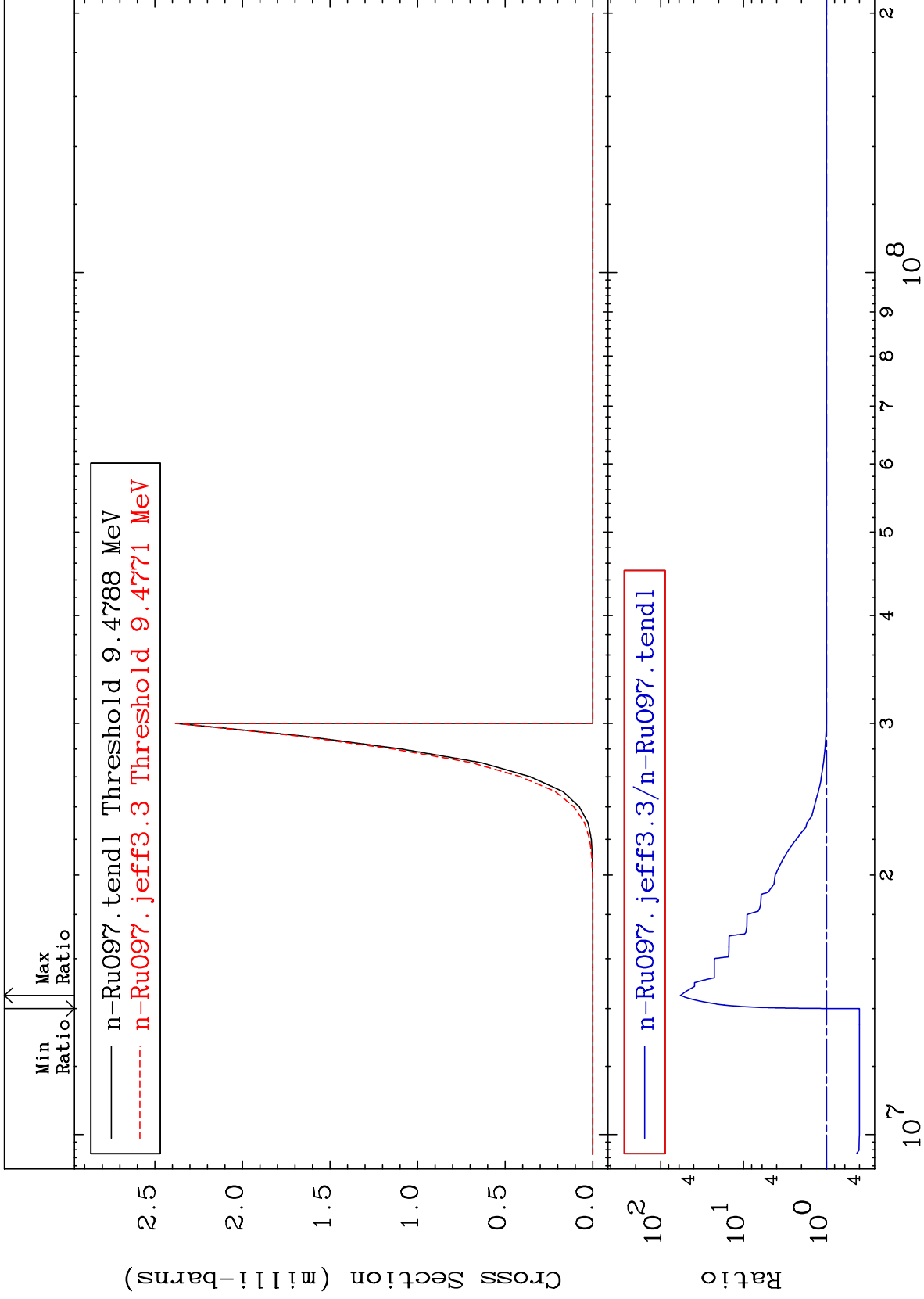


MAT 4428

(n,2n) p
Cross Section

44-Ru-97
-0.465 To 0.688 %

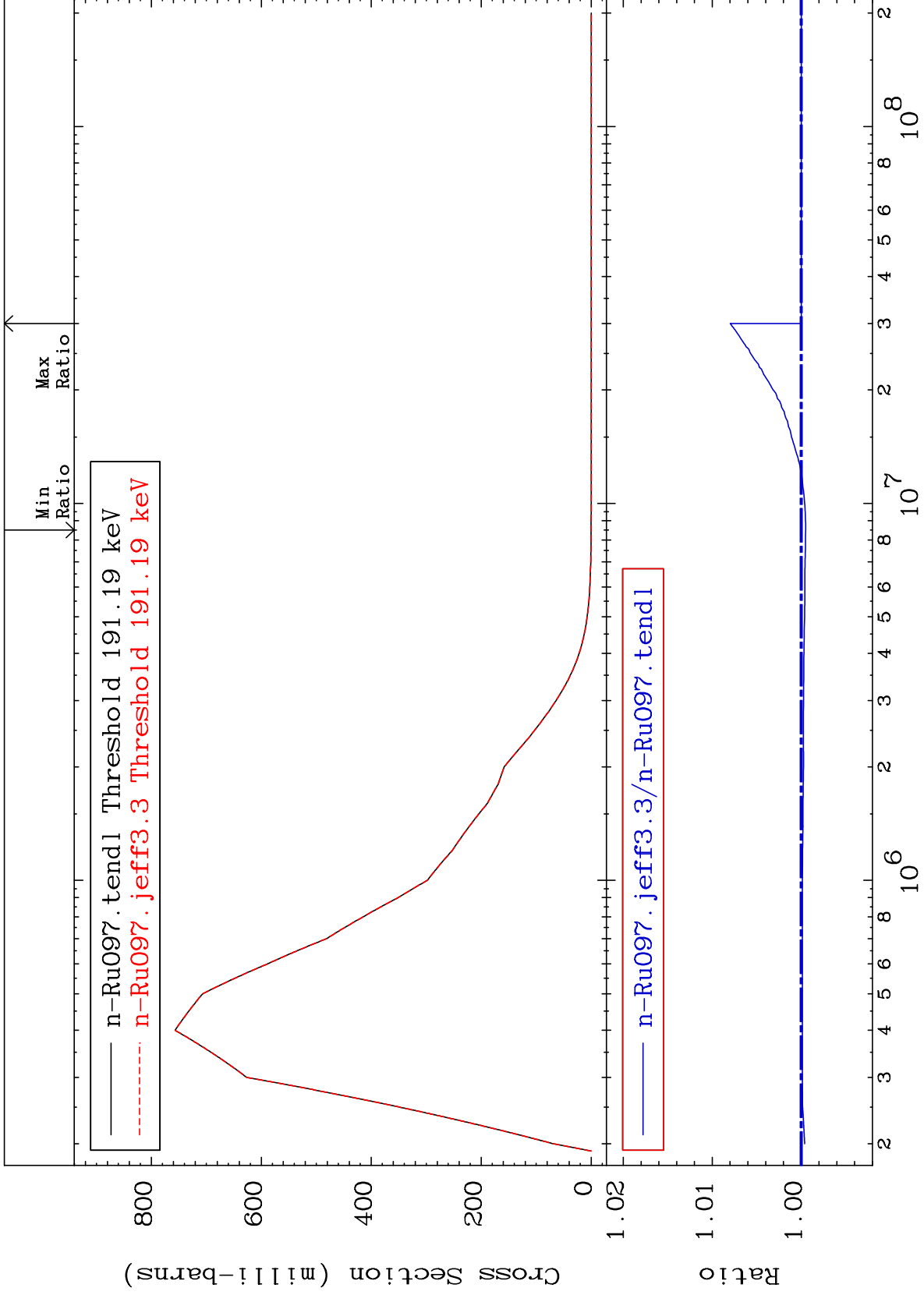




MAT 4428

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

44-Ru-97
-0.050 To 0.798 %



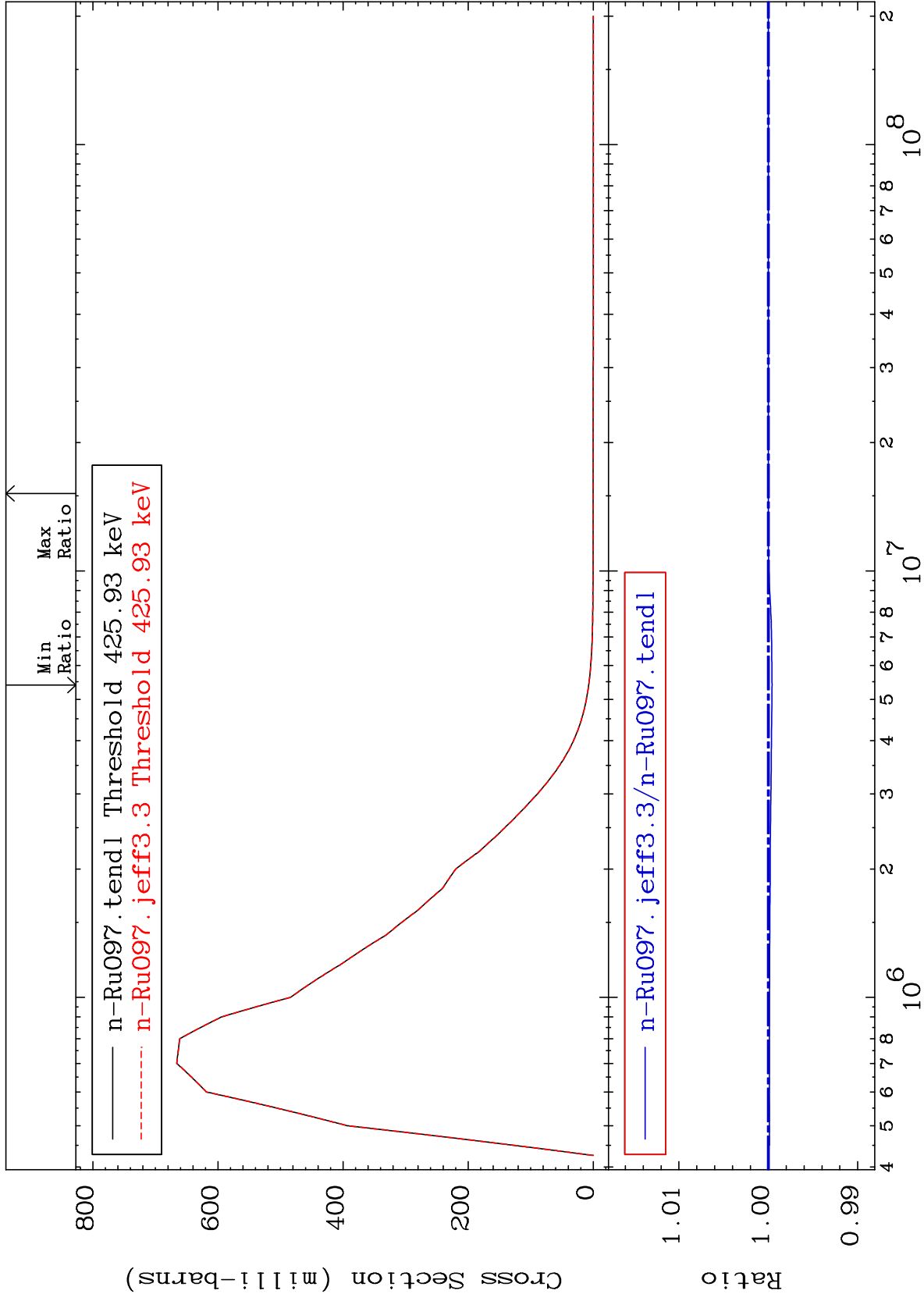
MAT 4428

MT= 52 (n,n') Level

44-Ru-97

-0.041 To 0.000 %

Cross Section



21

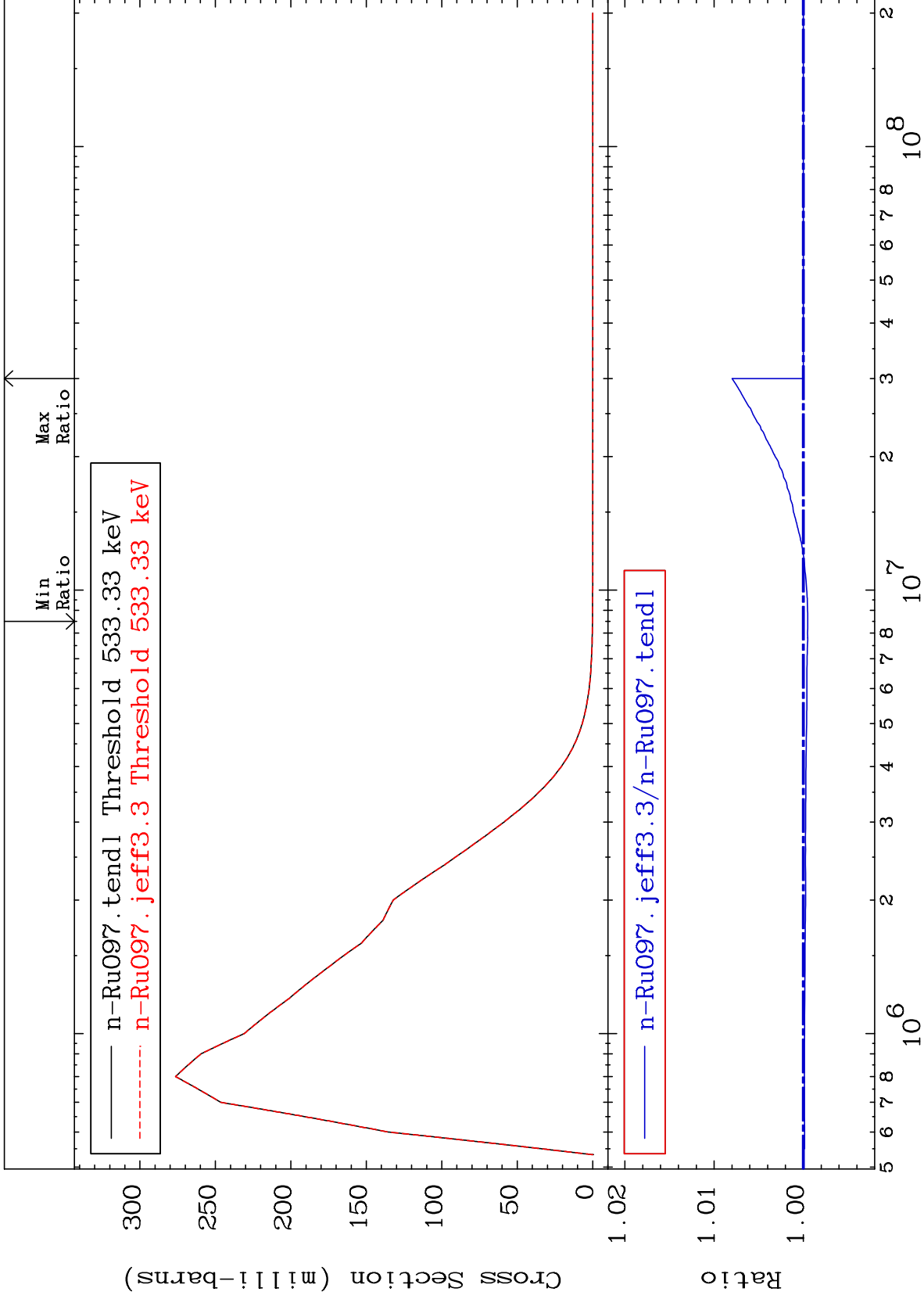
Incident Energy (eV)

44-Ru-97

MAT 4428

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

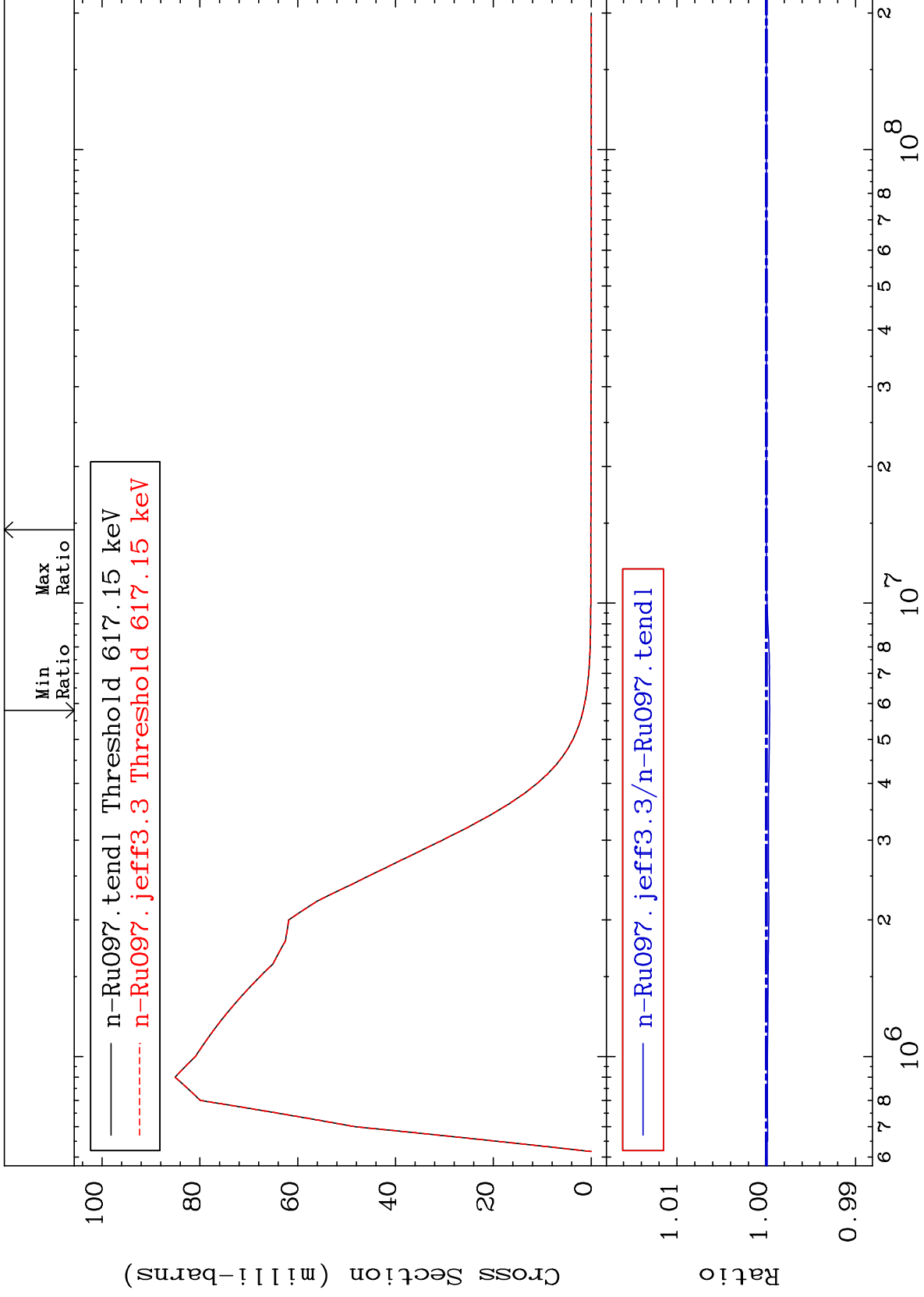
44-Ru-97
-0.049 To 0.799 %



MAT 4428

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

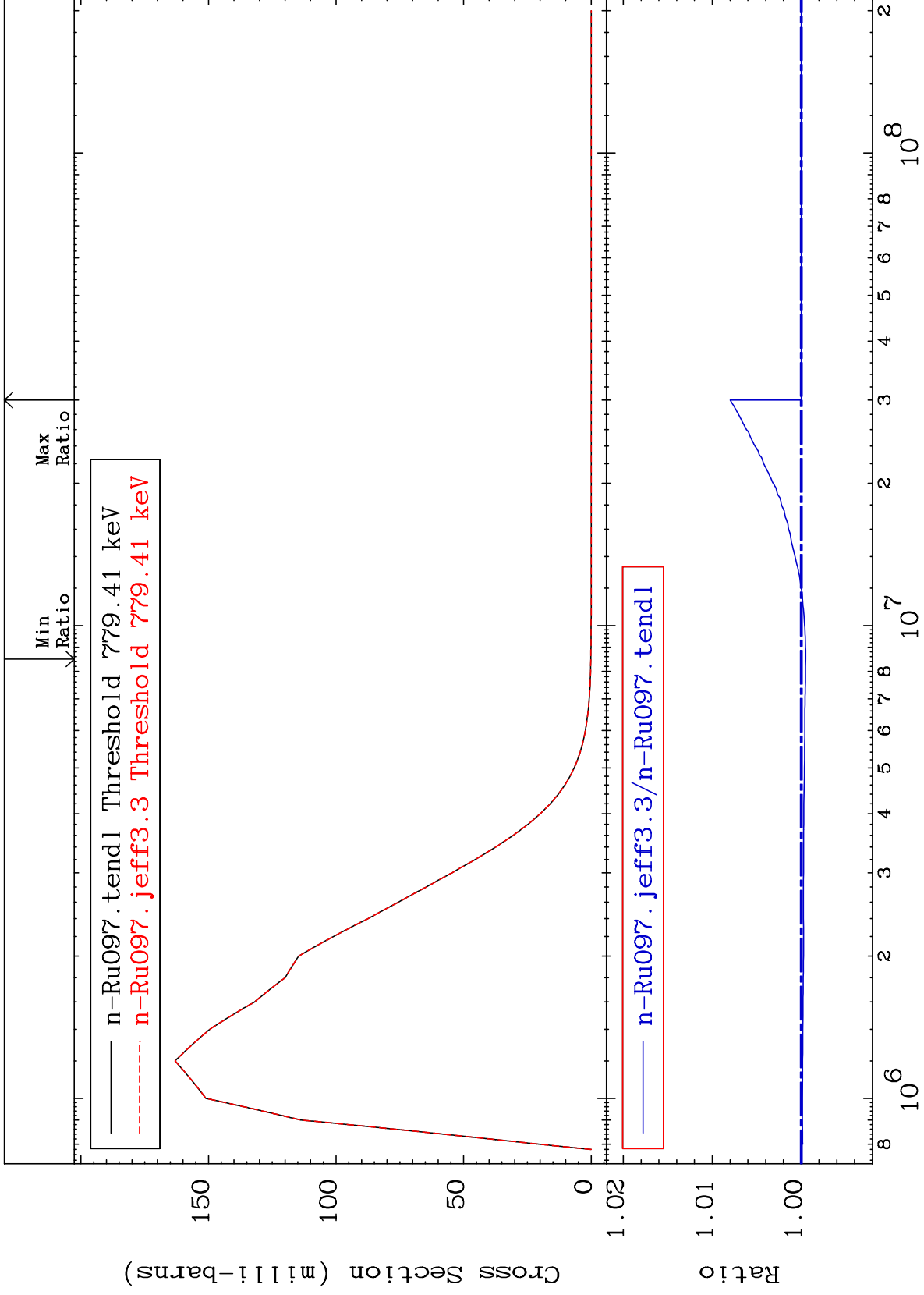
44-Ru-97
-0.037 To 0.000 %



MAT 4428

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

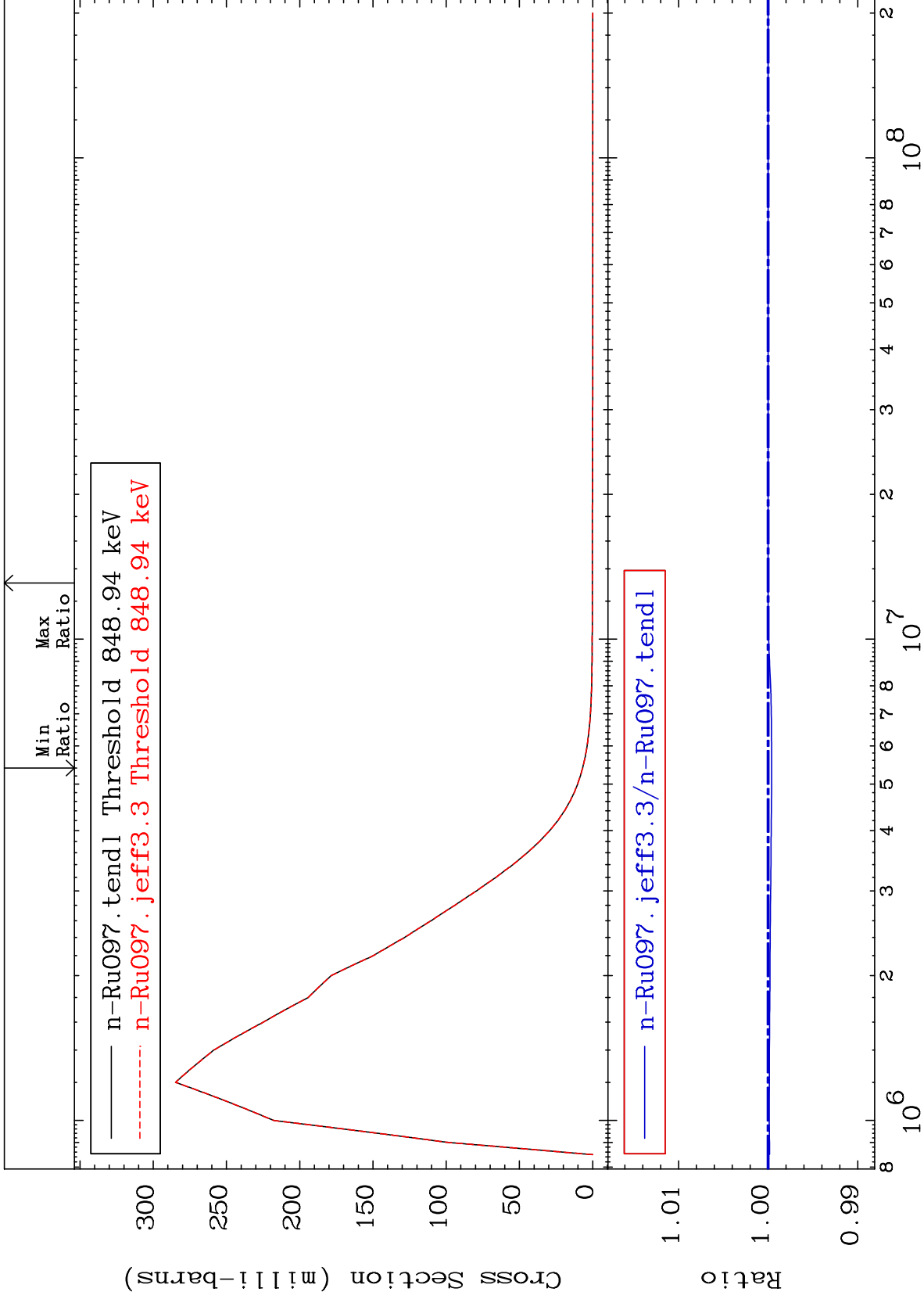
44-Ru-97
-0.050 To 0.799 %



MAT 4428

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

44-Ru-97
-0.040 To 0.000 %



25

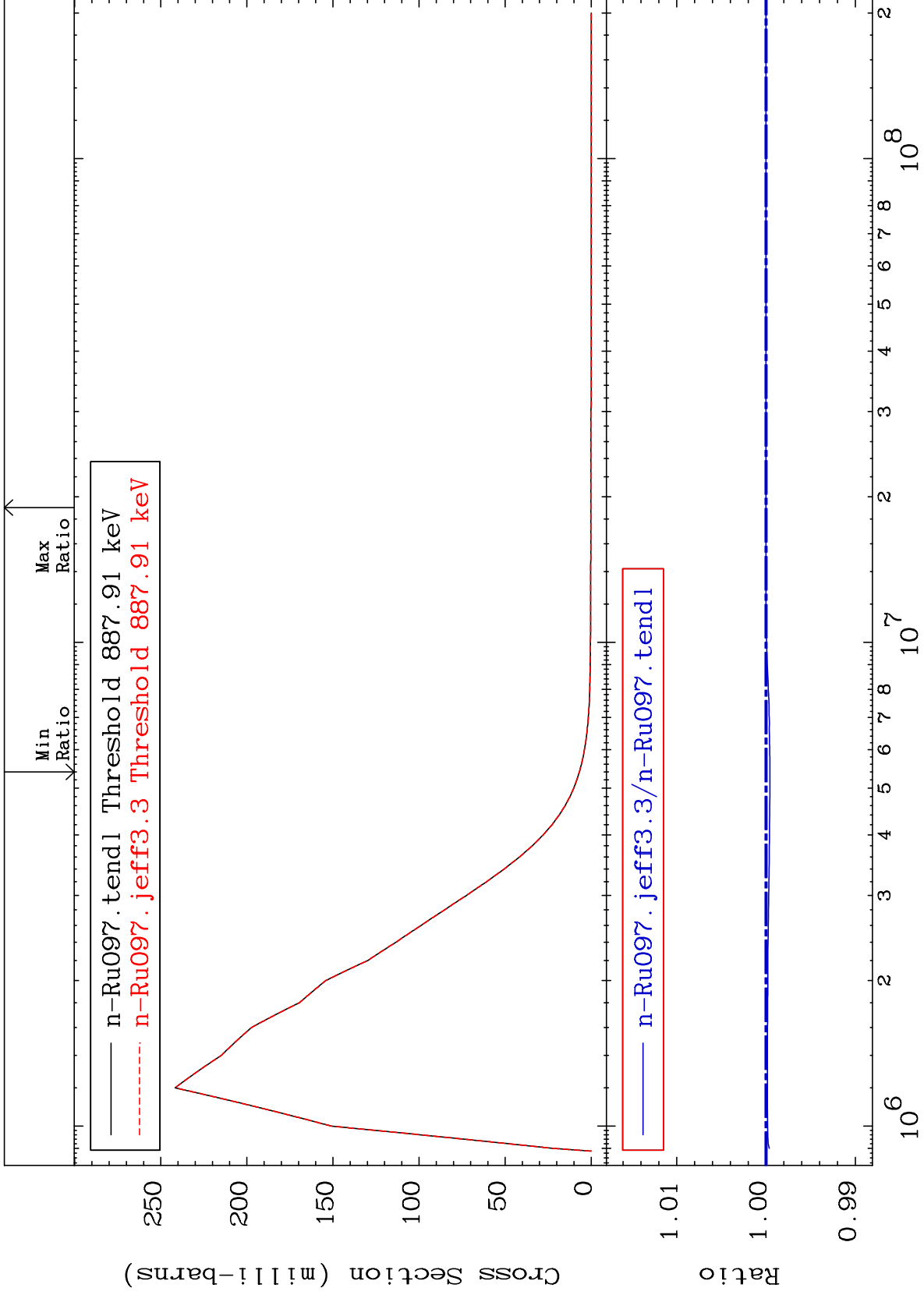
Incident Energy (eV)

44-Ru-97

MAT 4428

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

44-Ru-97
-0.043 To 0.000 %



26

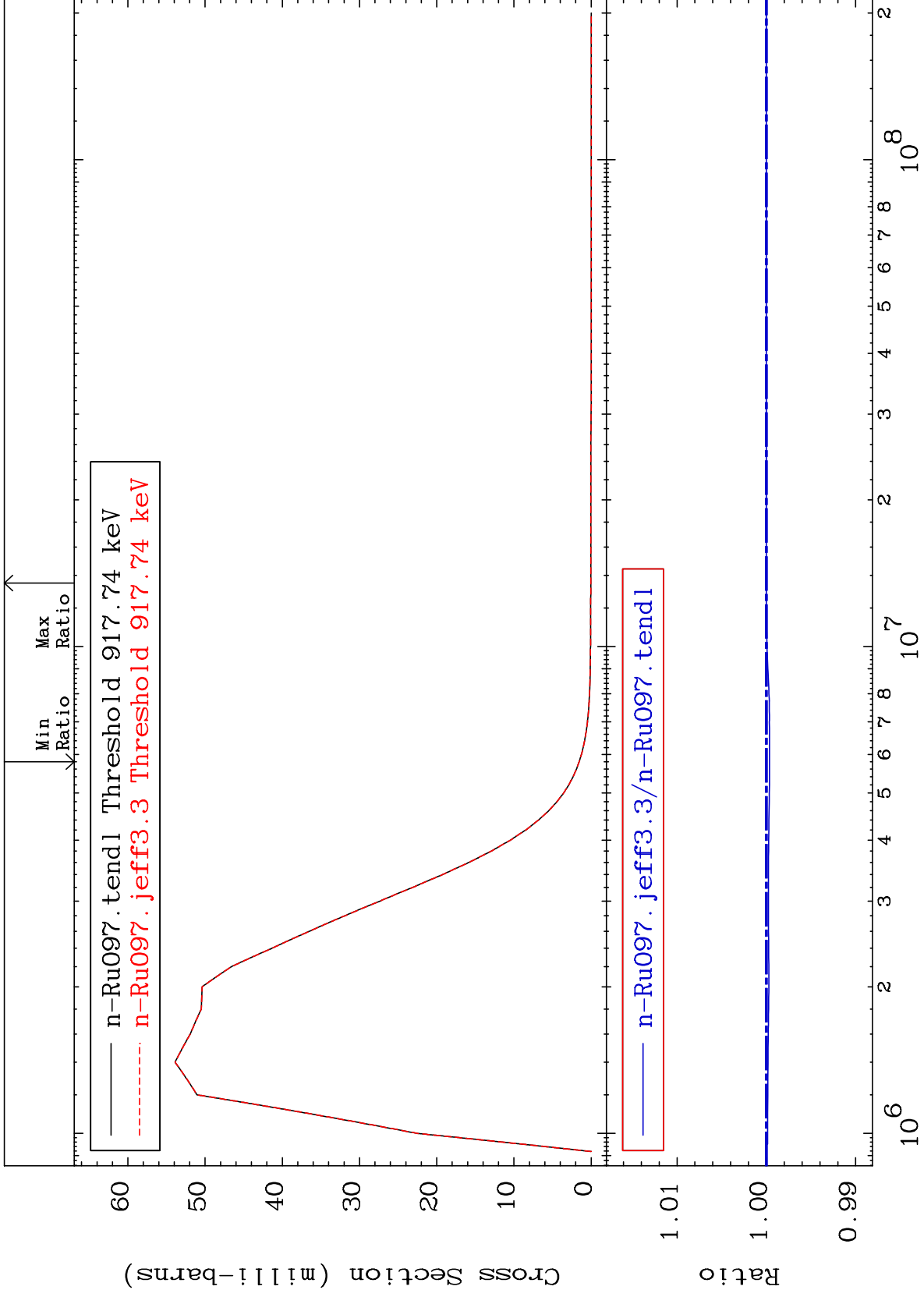
Incident Energy (eV)

44-Ru-97

MAT 4428

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

44-Ru-97
-0.036 To 0.000 %



27

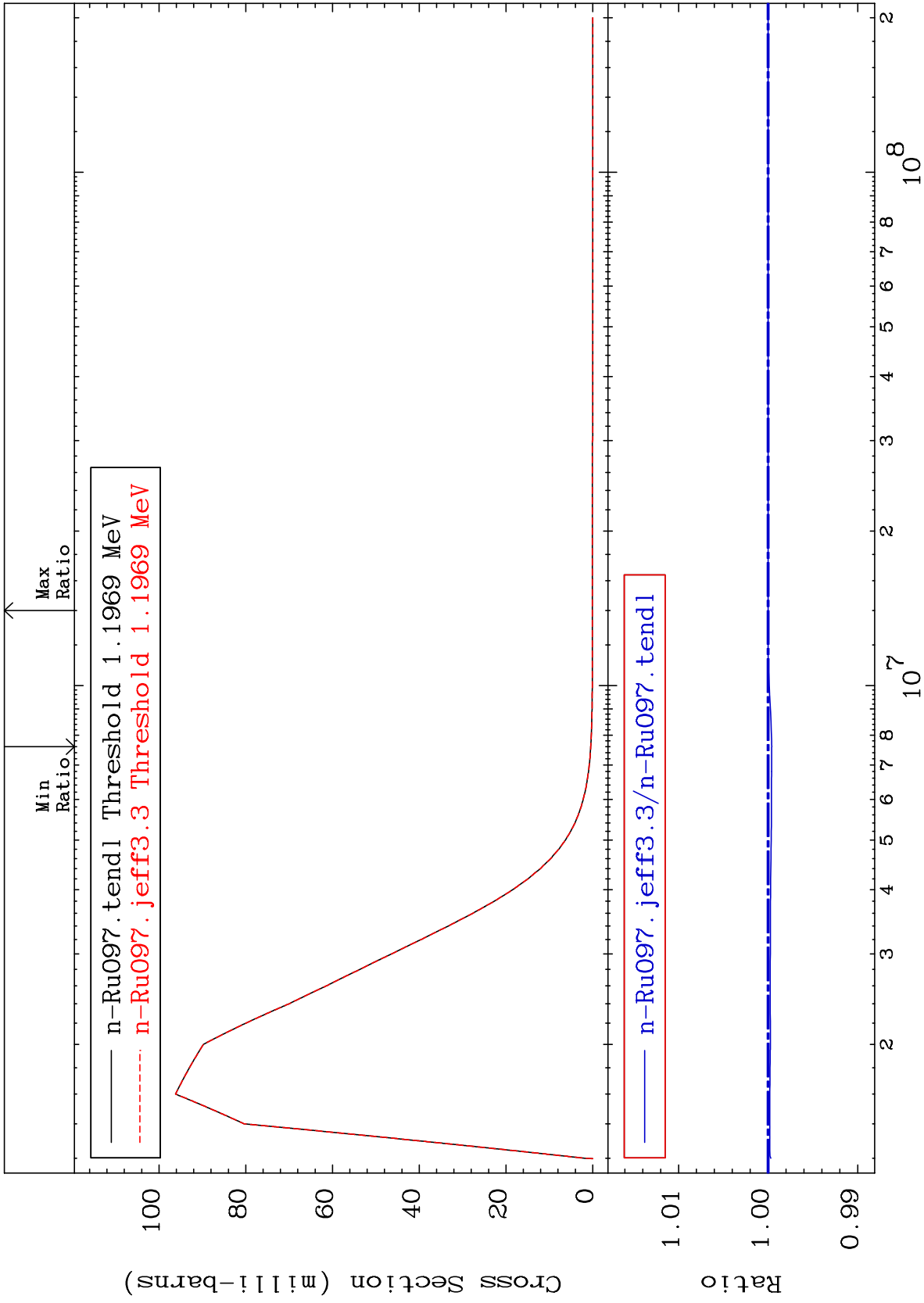
Incident Energy (eV)

44-Ru-97

MAT 4428

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

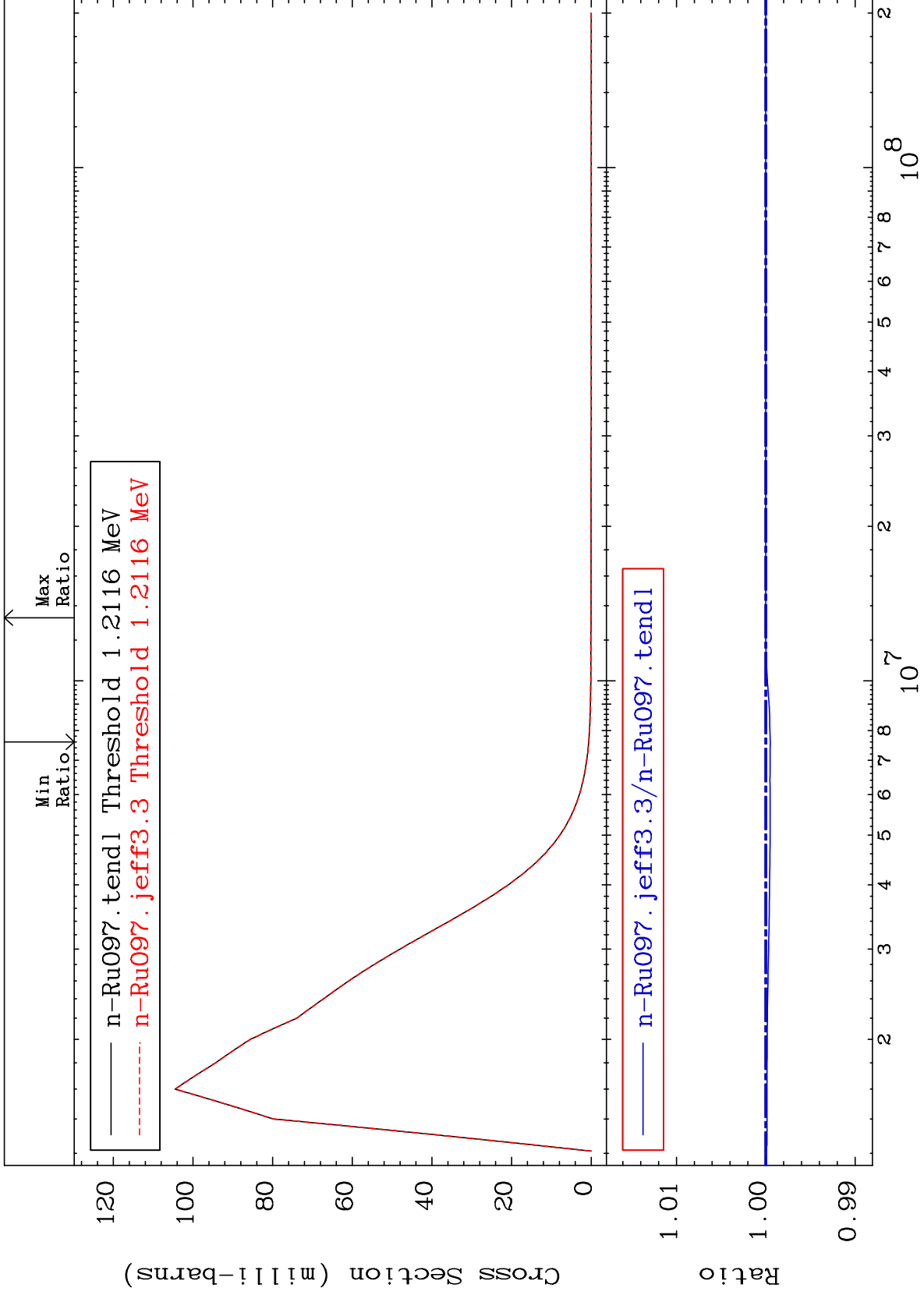
44-Ru-97
-0.041 To 0.000 %



MAT 4428

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

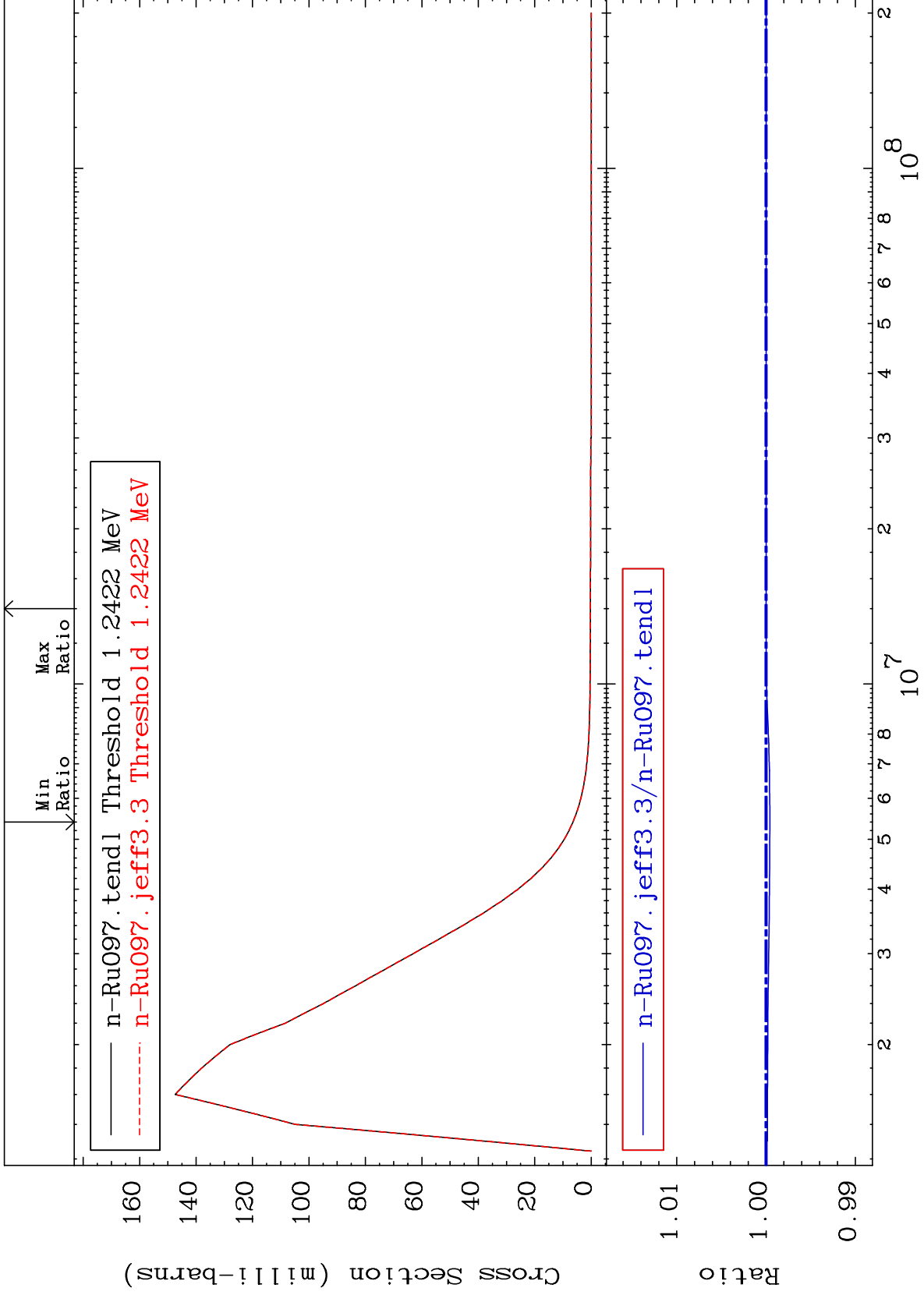
44-Ru-97
-0.050 To 0.001 %



MAT 4428

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

44-Ru-97
-0.043 To 0.000 %



30

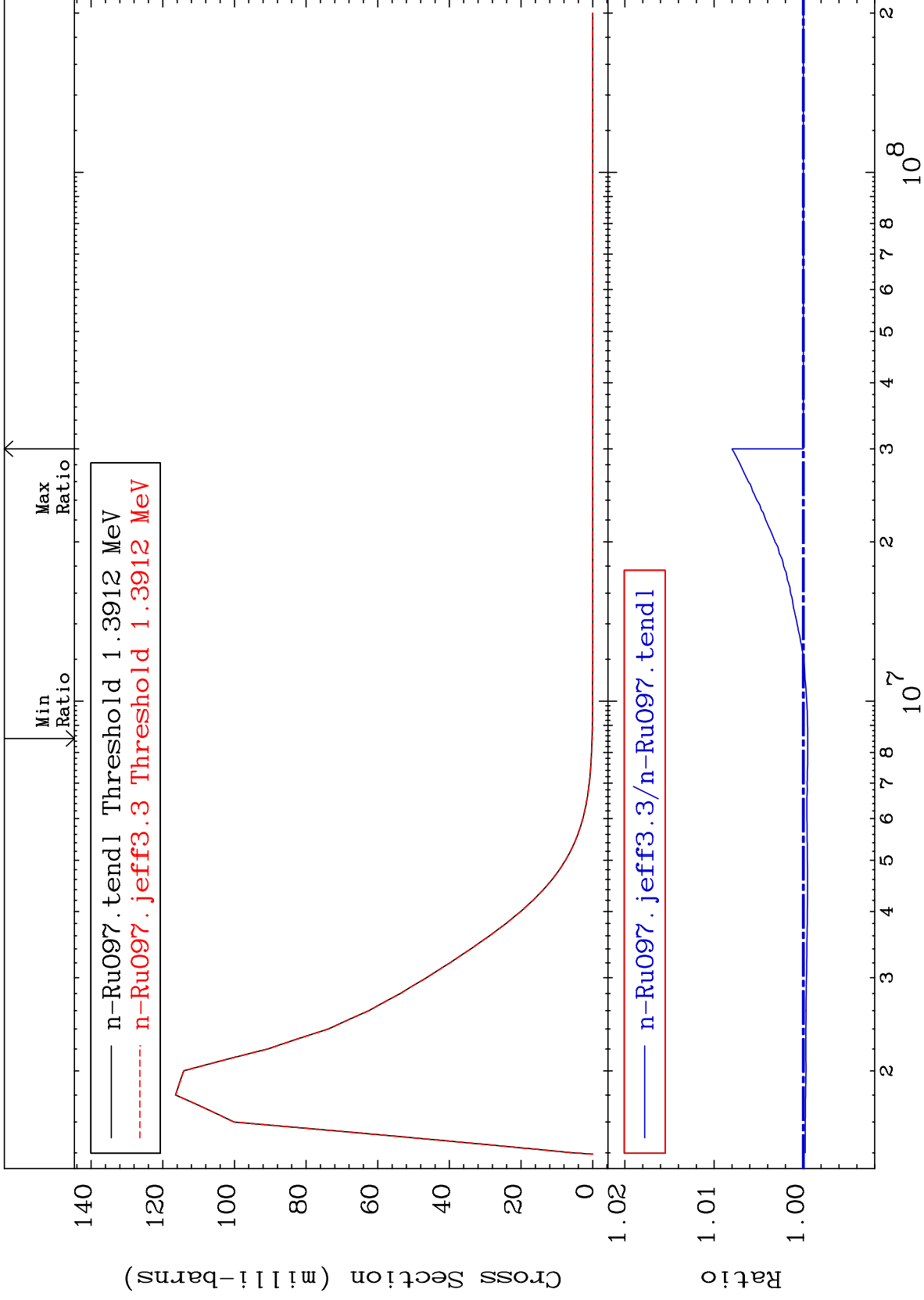
Incident Energy (eV)

44-Ru-97

MAT 4428

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

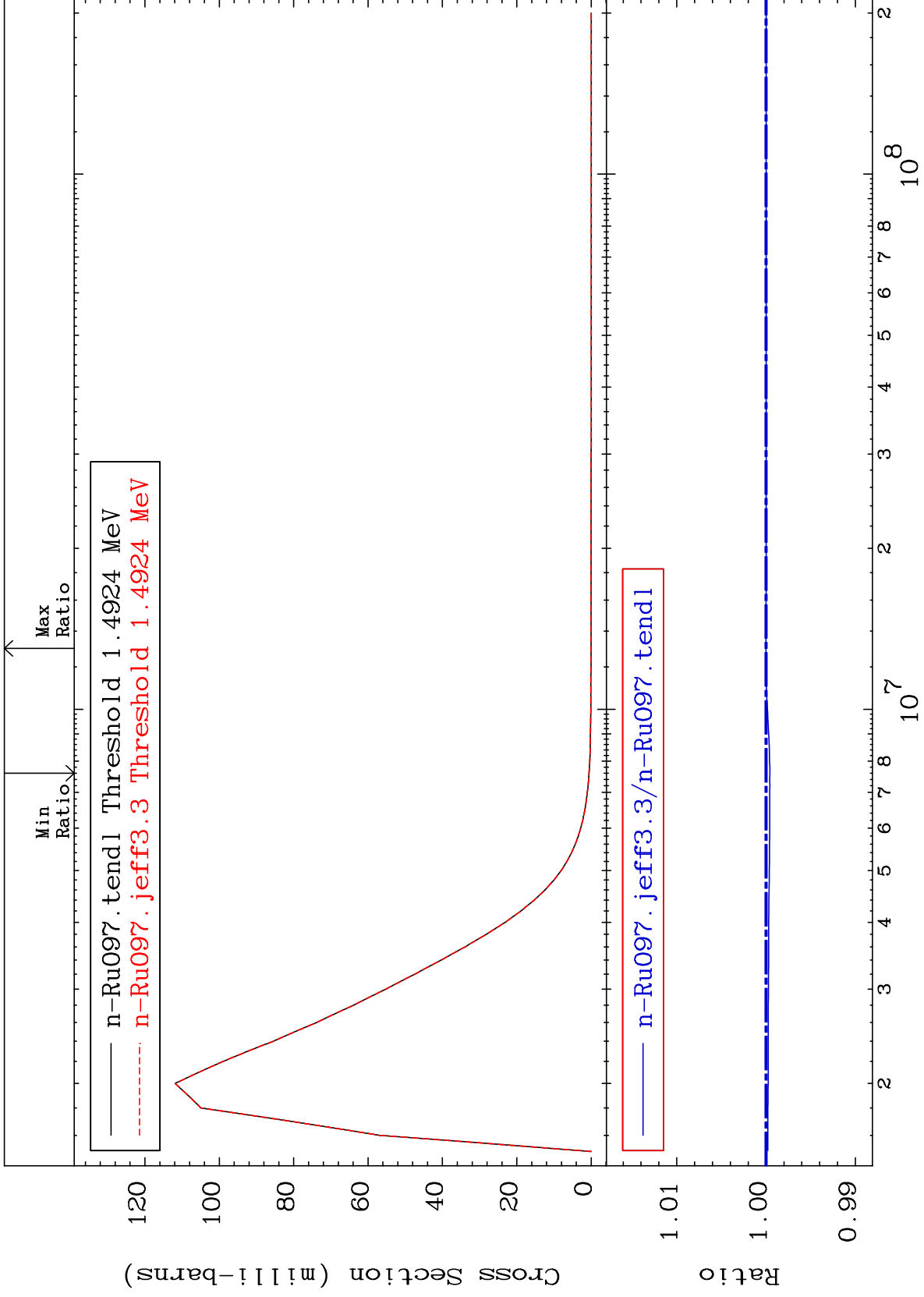
44-Ru-97
-0.050 To 0.800 %



MAT 4428

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

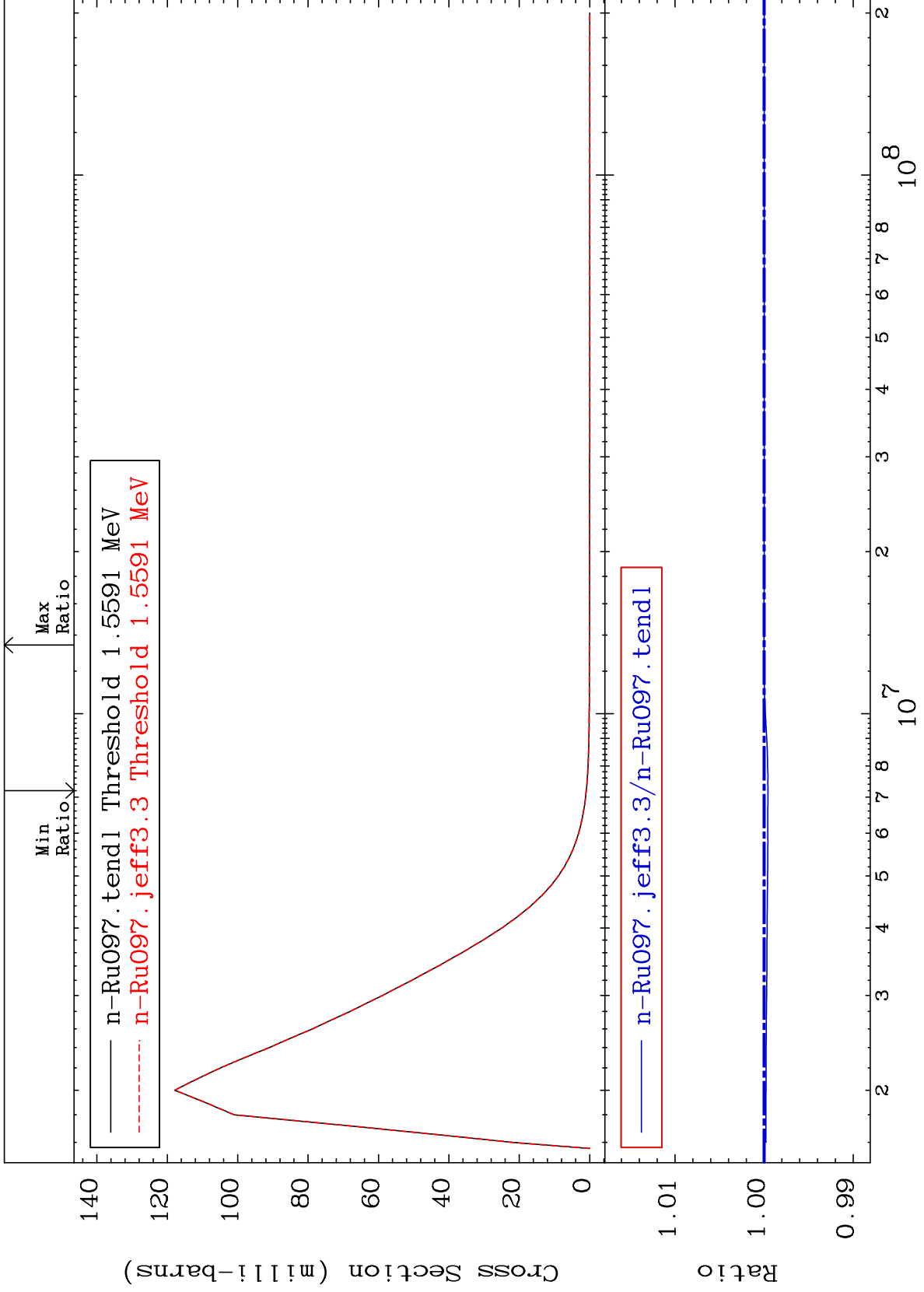
44-Ru-97
-0.043 To 0.001 %



MAT 4428

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

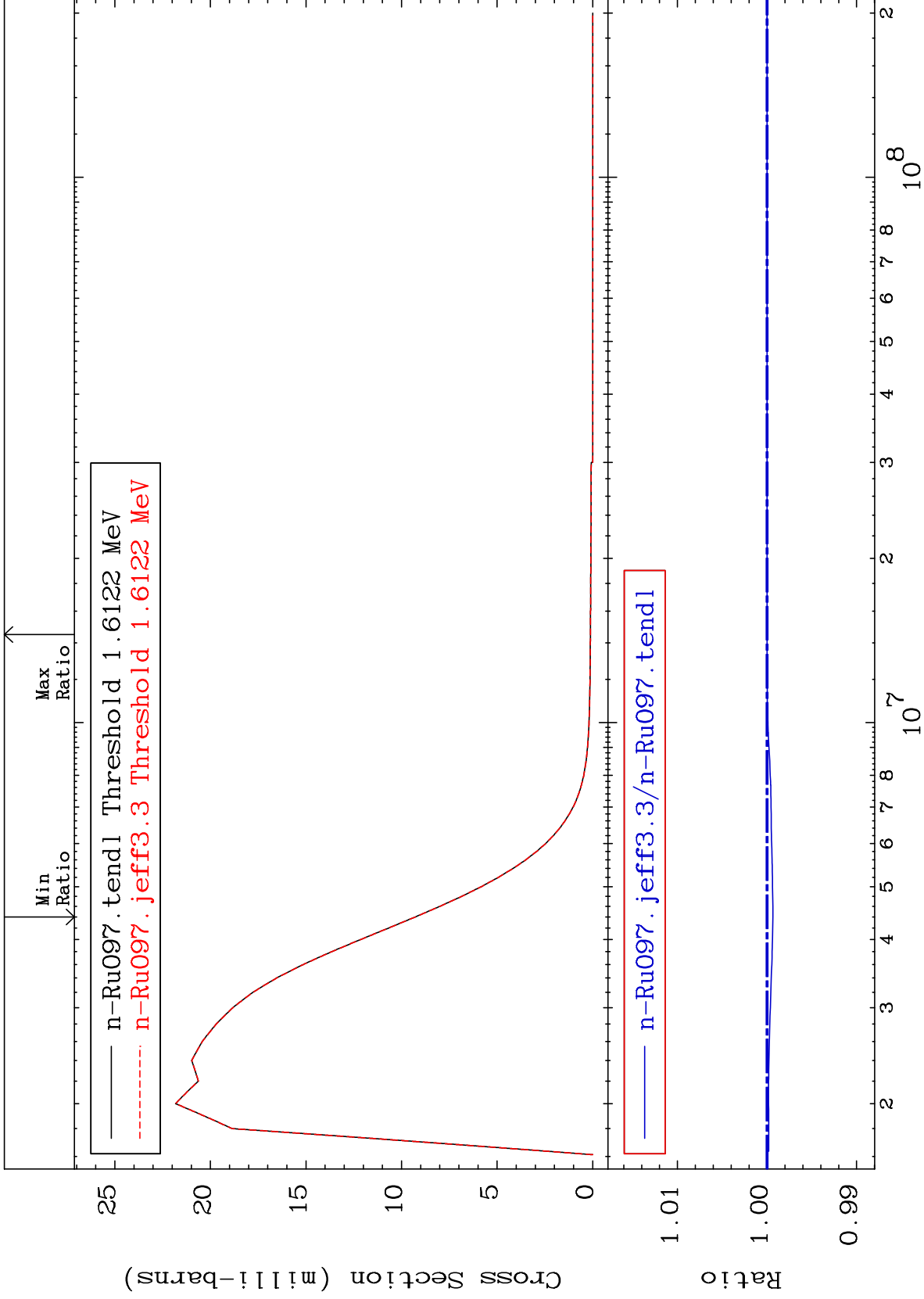
44-Ru-97
-0.043 To 0.000 %



MAT 4428

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

44-Ru-97
-0.065 To 0.000 %



34

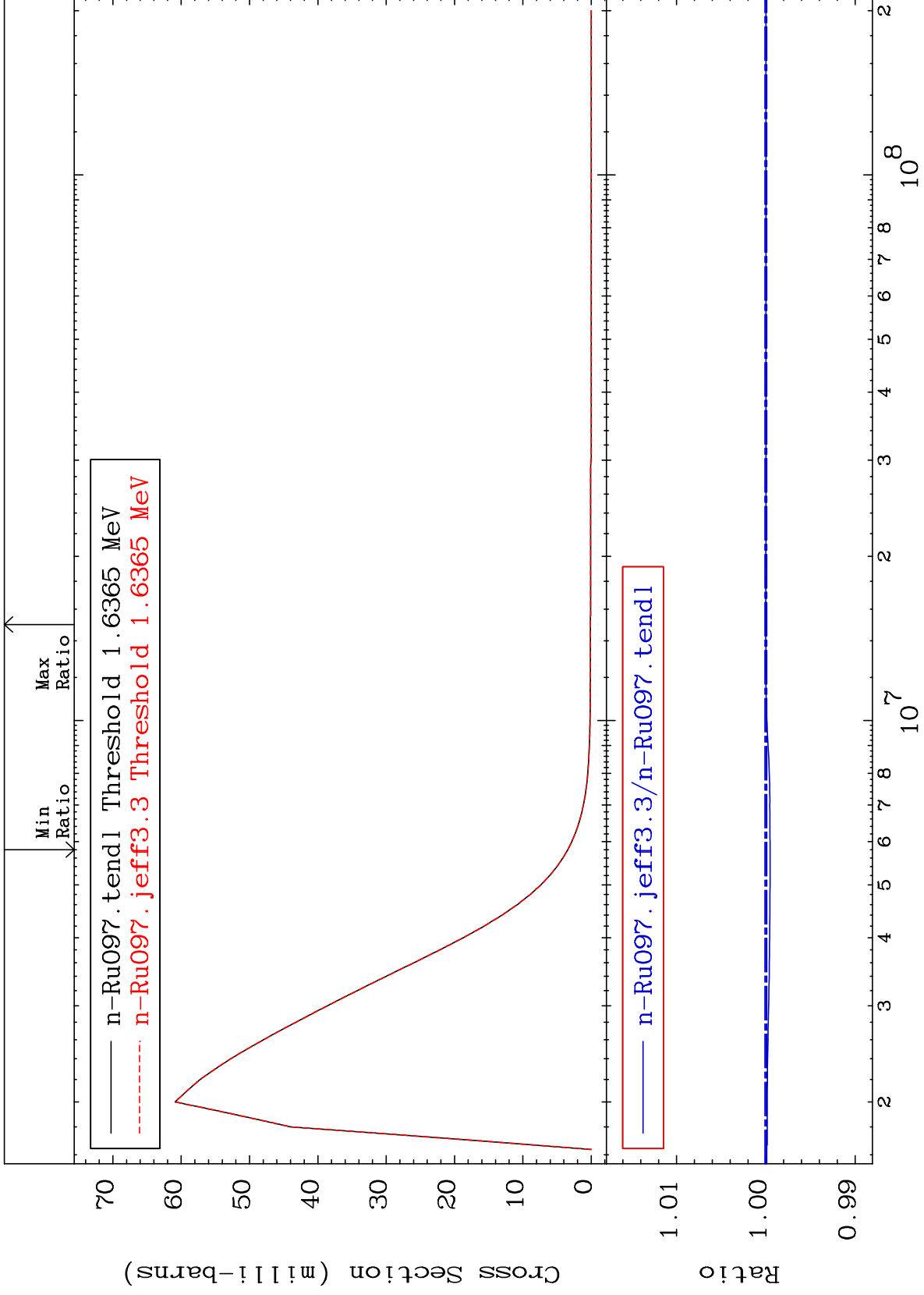
Incident Energy (eV)

44-Ru-97

MAT 4428

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

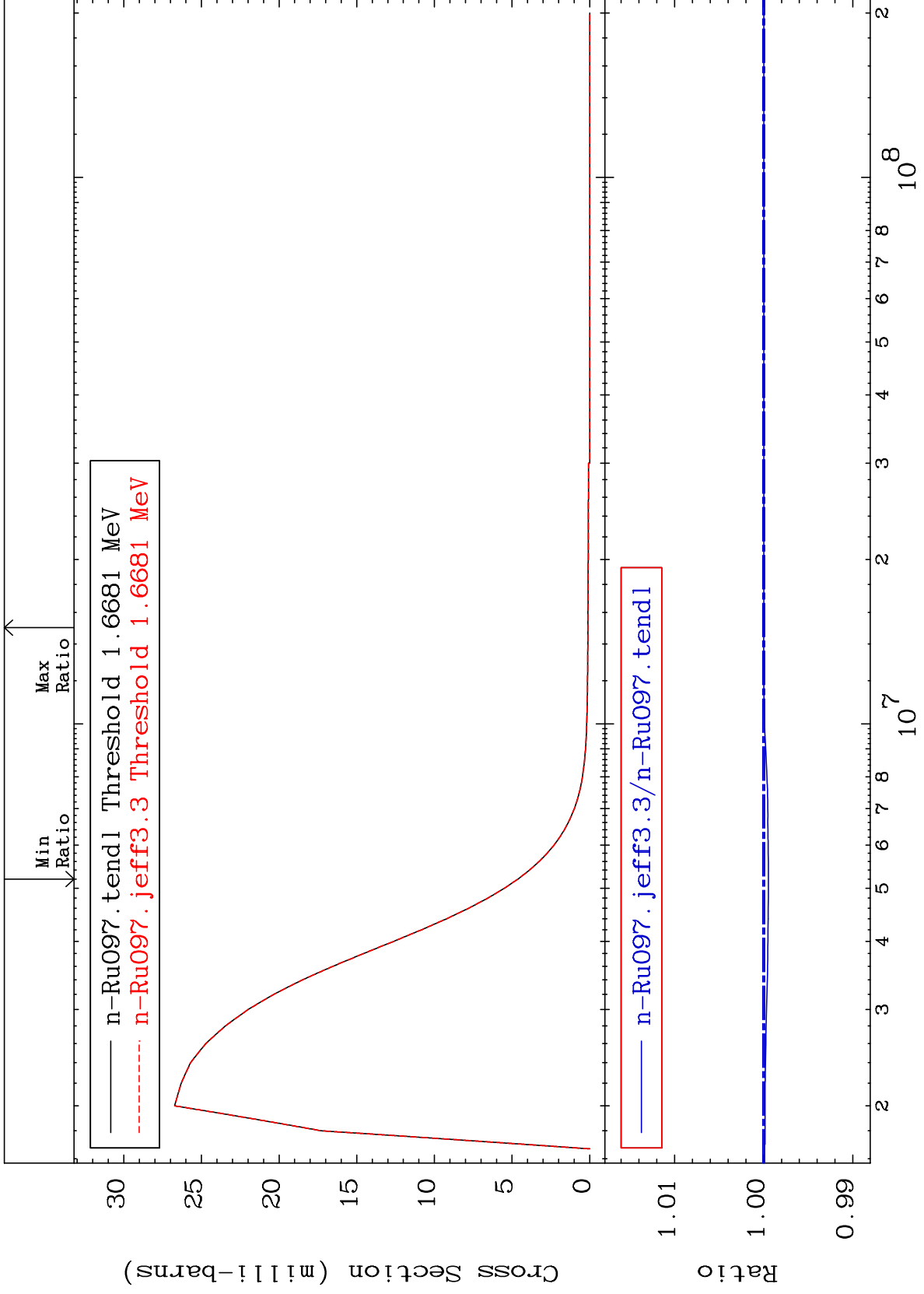
44-Ru-97
-0.048 To 0.000 %



MAT 4428

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

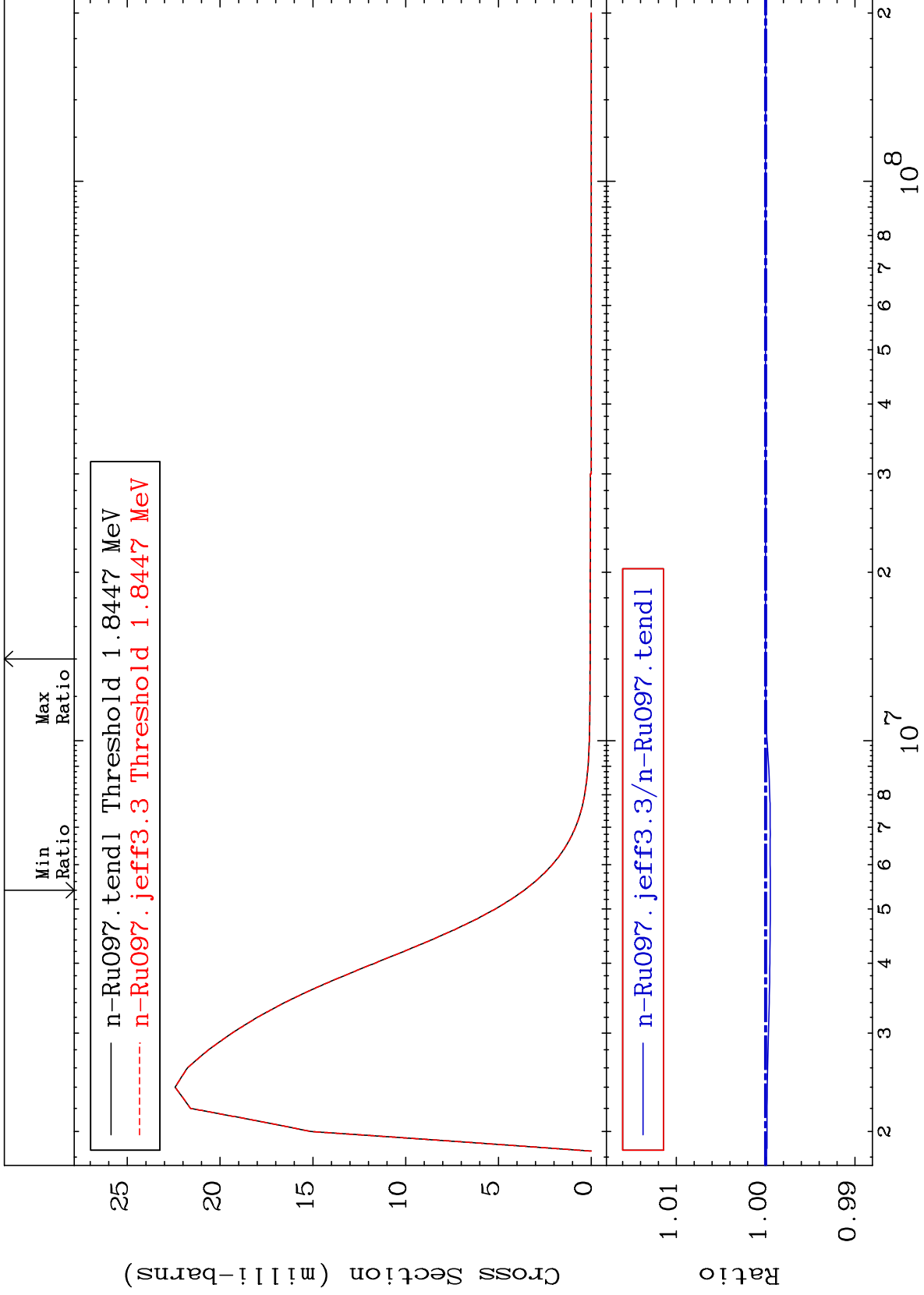
44-Ru-97
-0.052 To 0.000 %



MAT 4428

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

44-Ru-97
-0.053 To 0.001 %



37

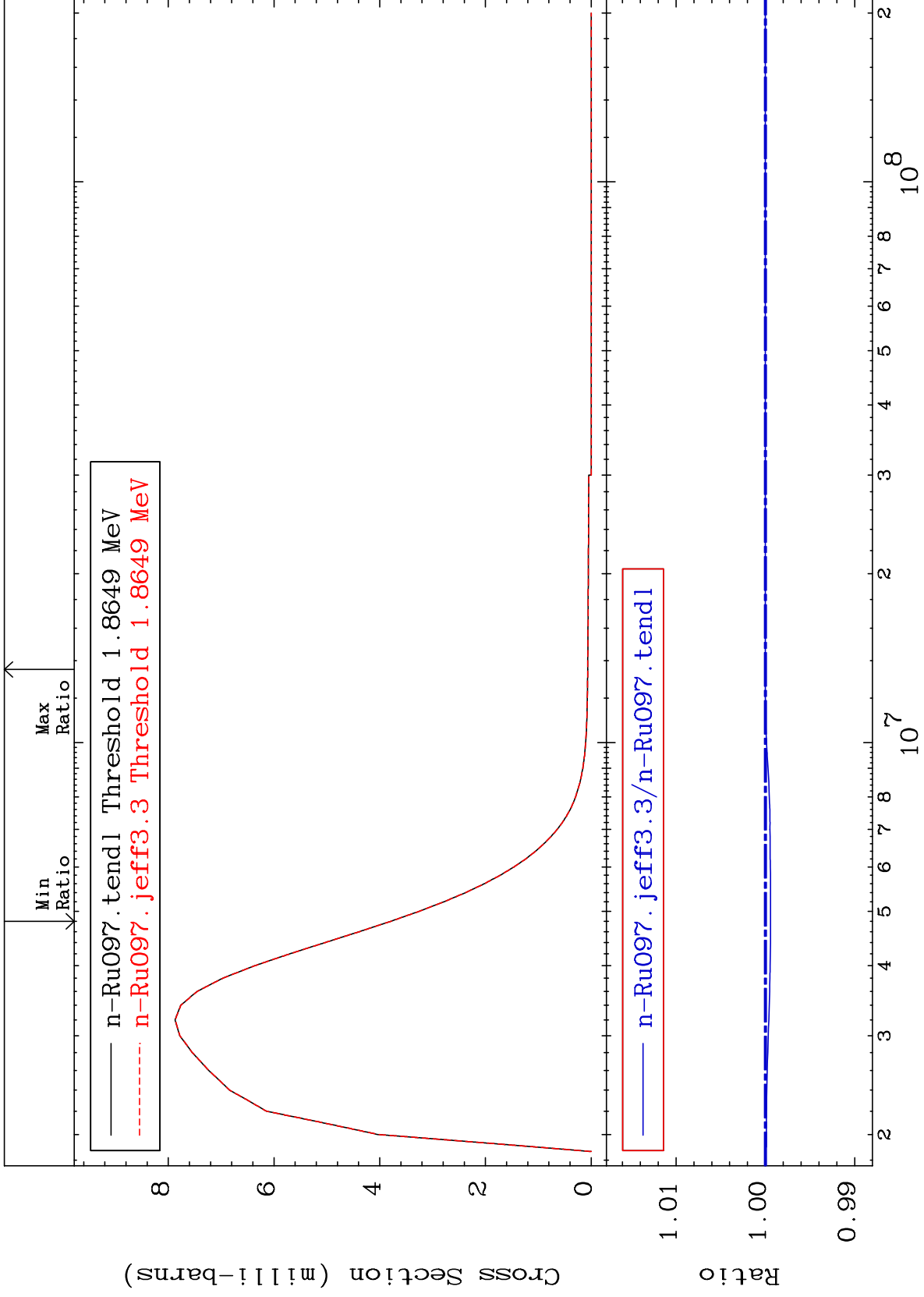
Incident Energy (eV)

44-Ru-97

MAT 4428

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

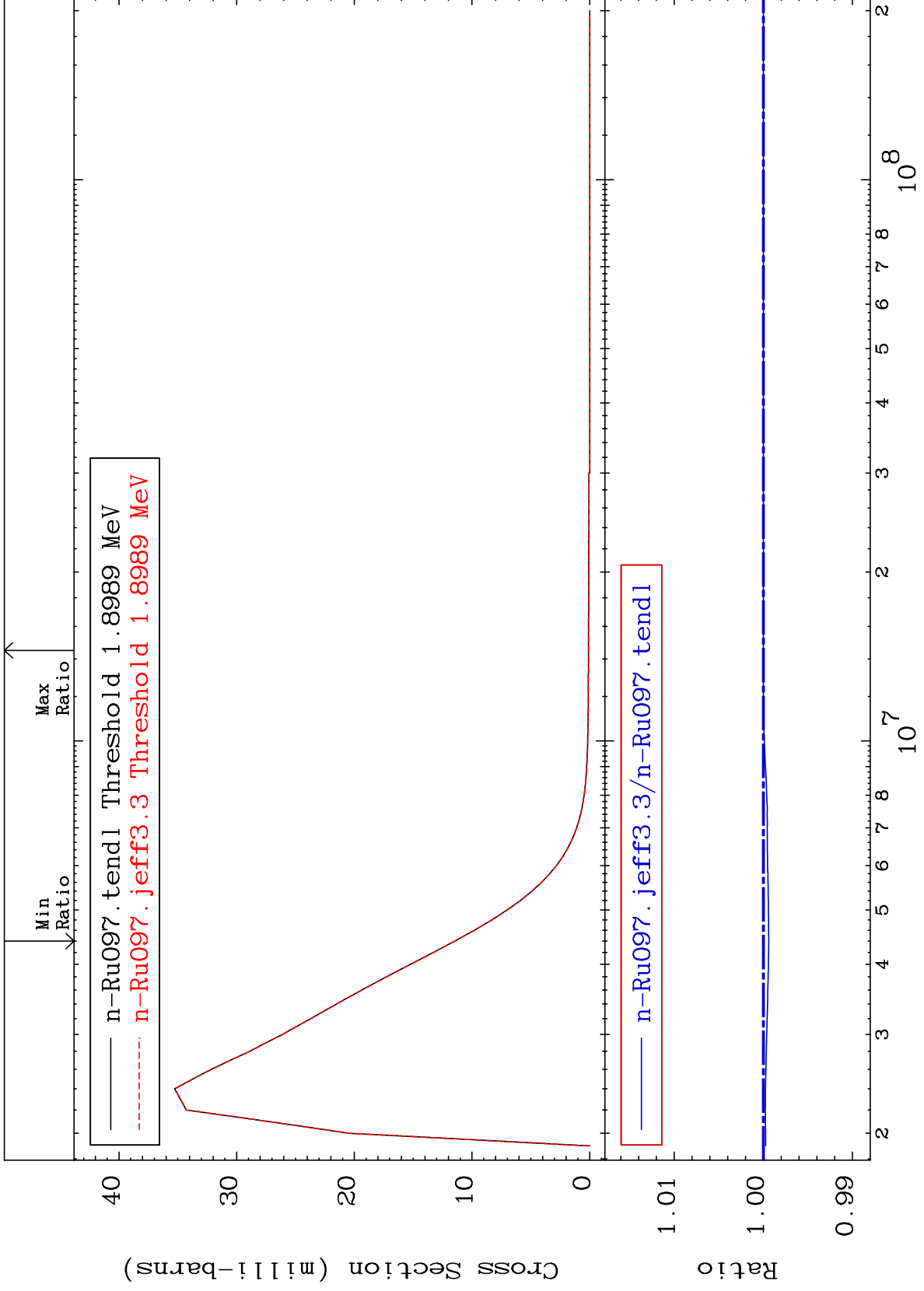
44-Ru-97
-0.059 To 0.000 %



MAT 4428

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

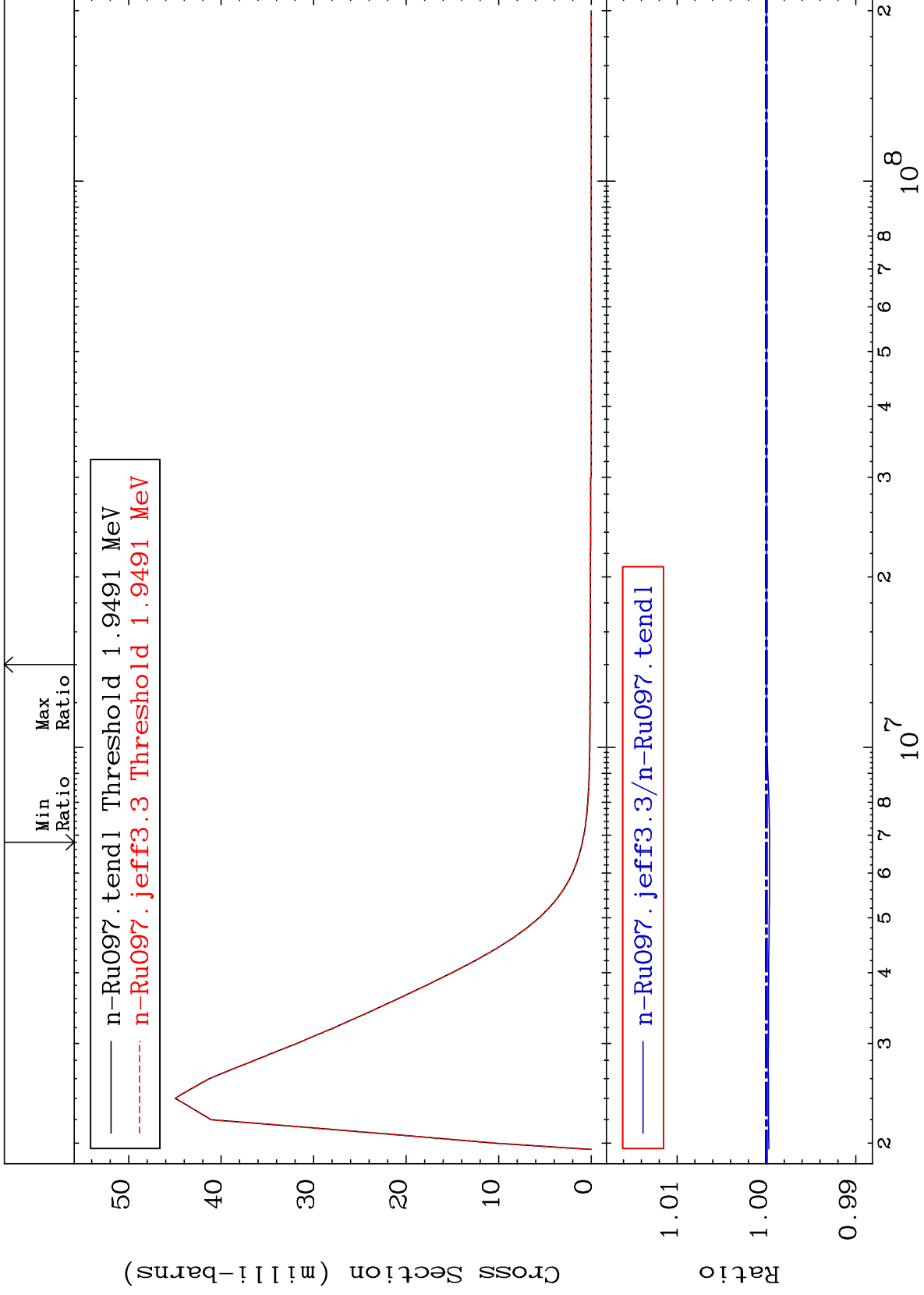
44-Ru-97
-0.060 To 0.000 %



MAT 4428

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

44-Ru-97
-0.036 To 0.000 %



40

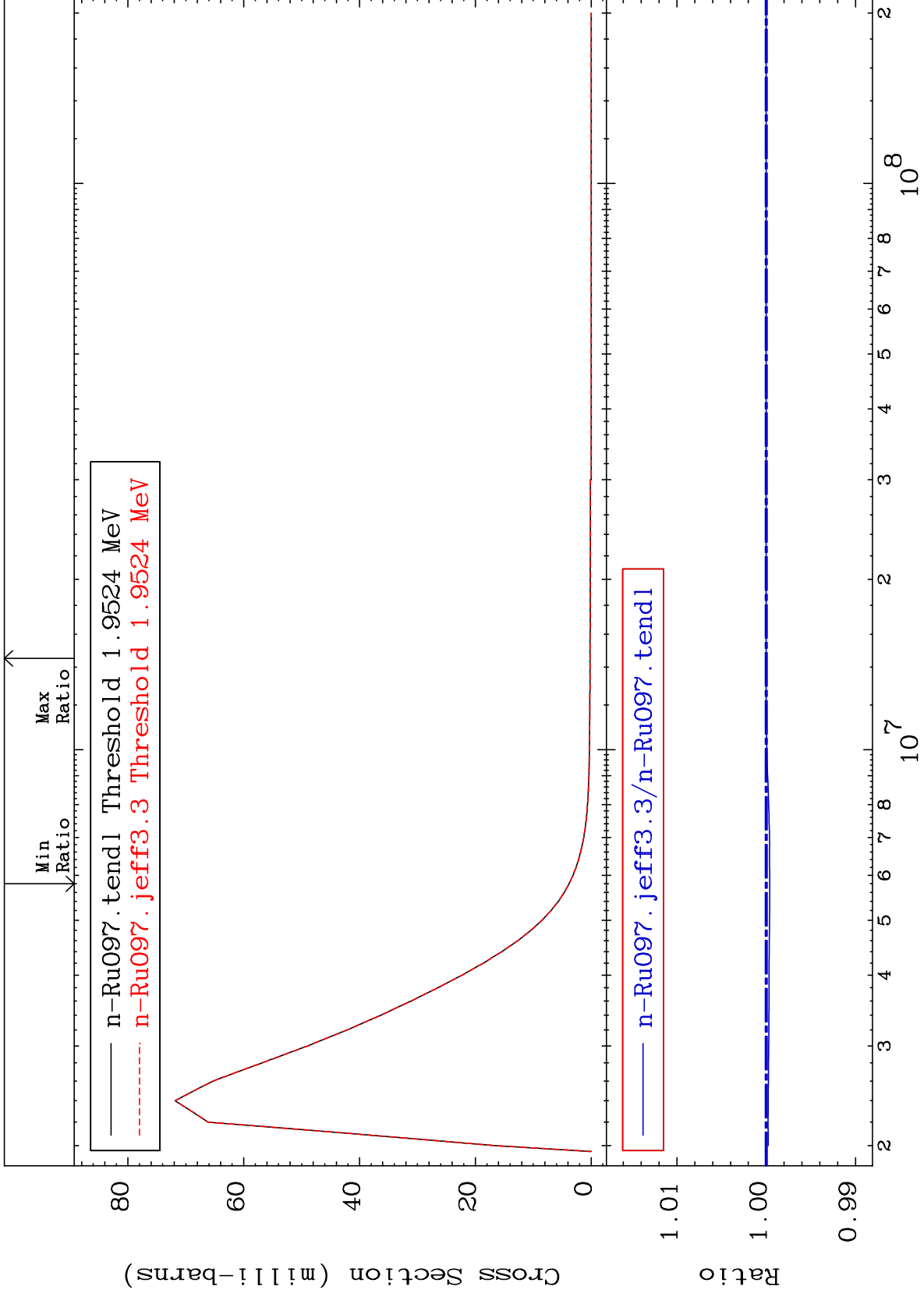
Incident Energy (eV)

44-Ru-97

MAT 4428

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

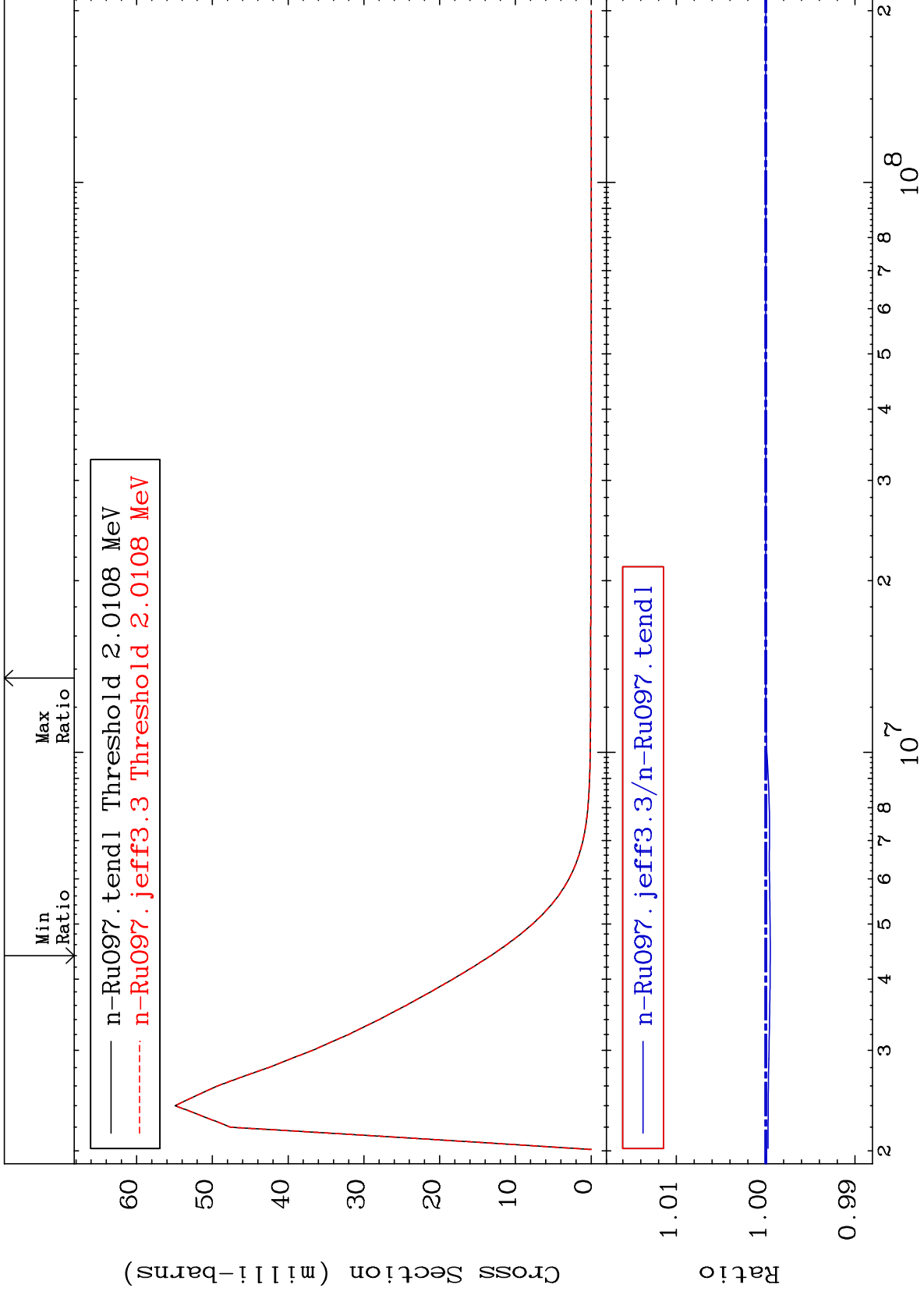
44-Ru-97
-0.039 To 0.000 %



MAT 4428

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

44-Ru-97
-0.051 To 0.000 %



42

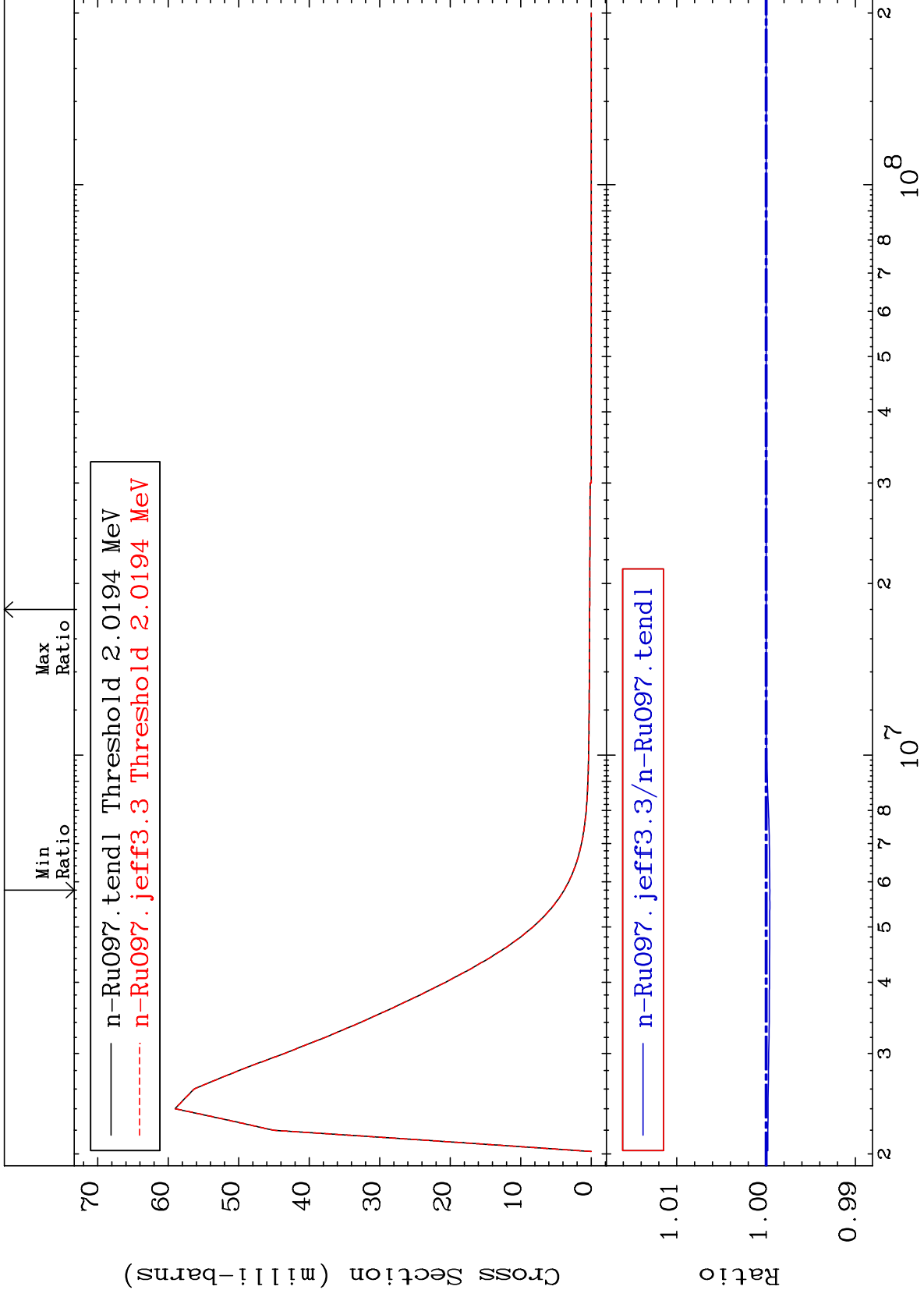
Incident Energy (eV)

44-Ru-97

MAT 4428

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

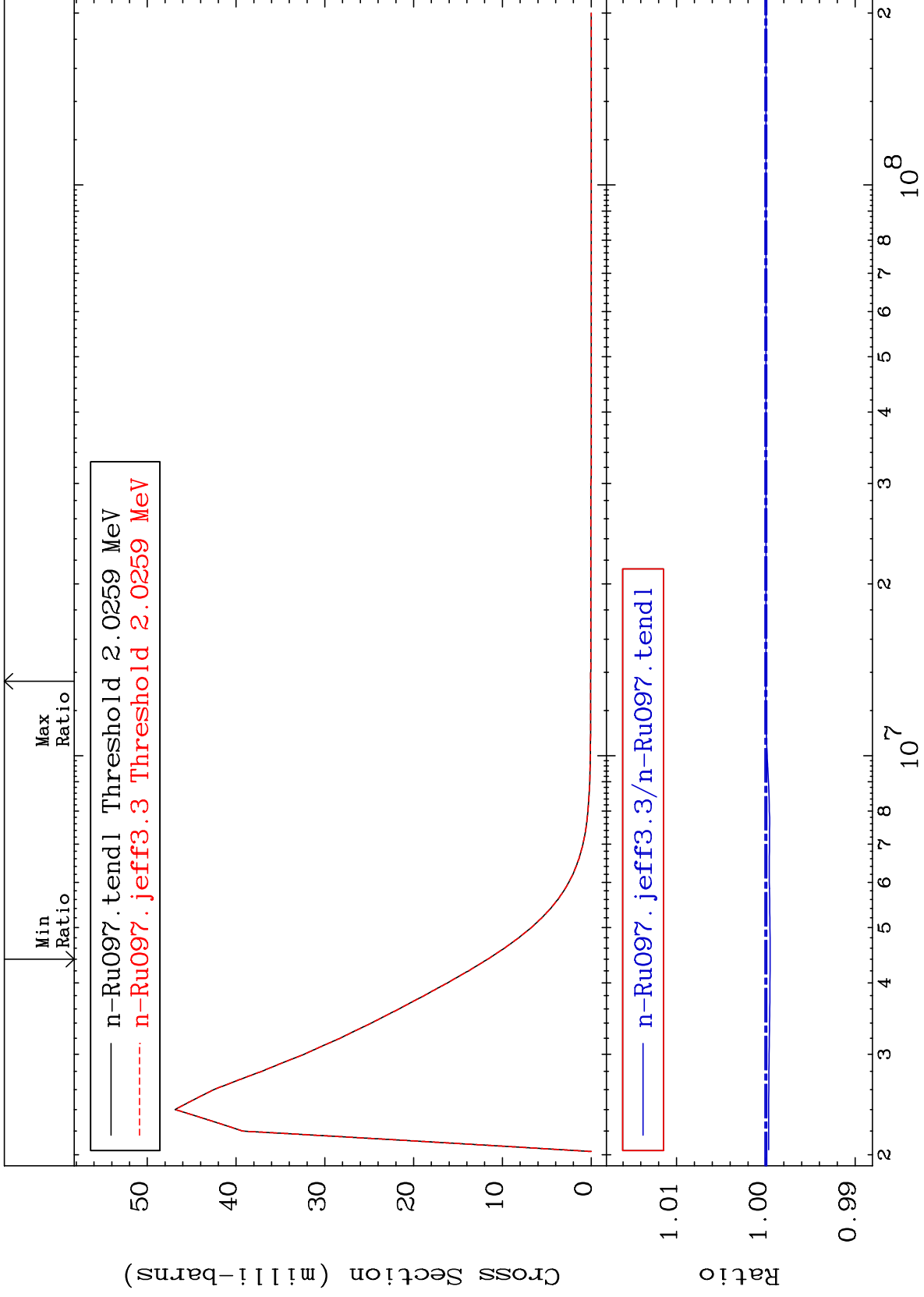
44-Ru-97
-0.041 To 0.000 %



MAT 4428

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

44-Ru-97
-0.047 To 0.001 %



44

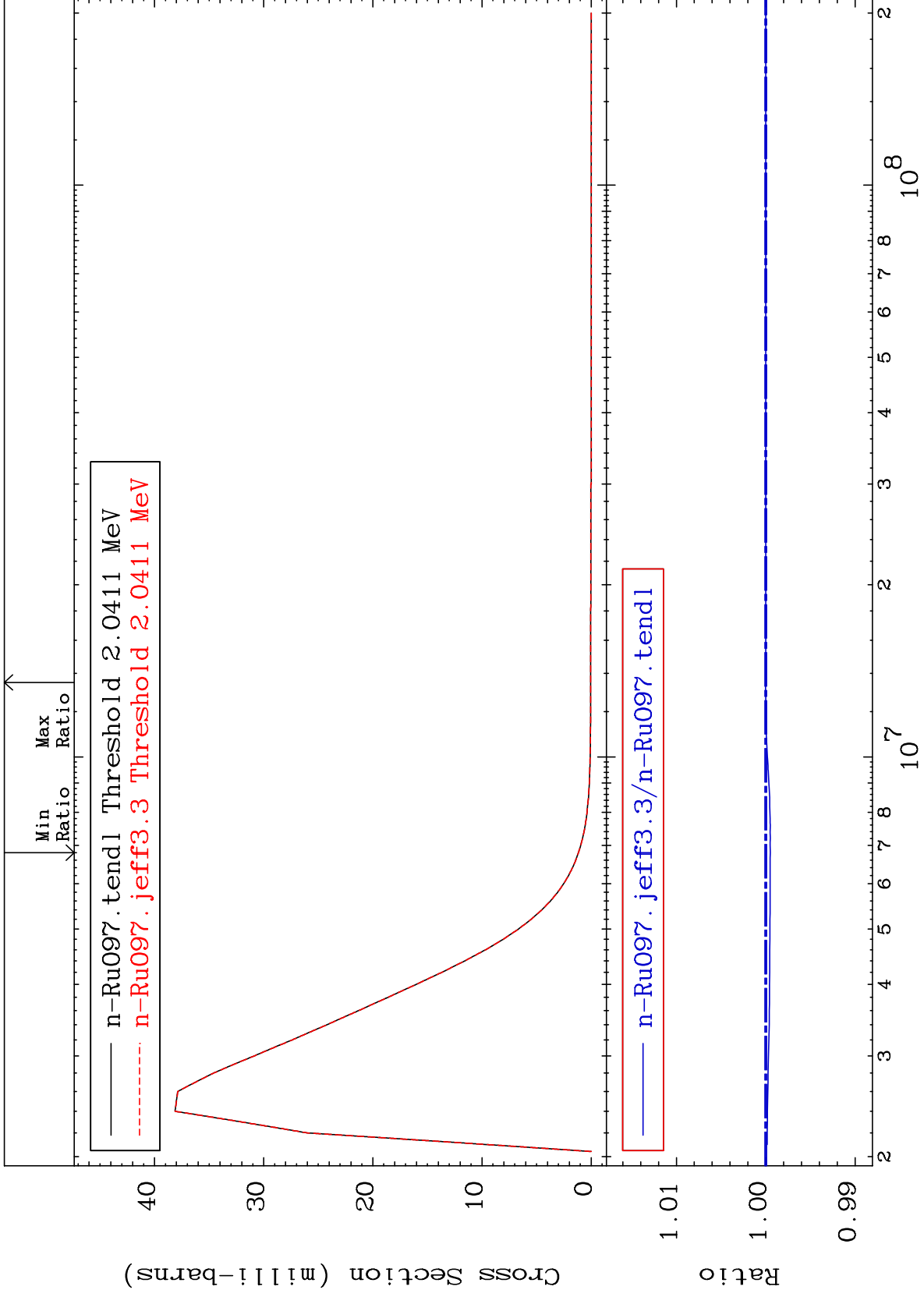
Incident Energy (eV)

44-Ru-97

MAT 4428

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

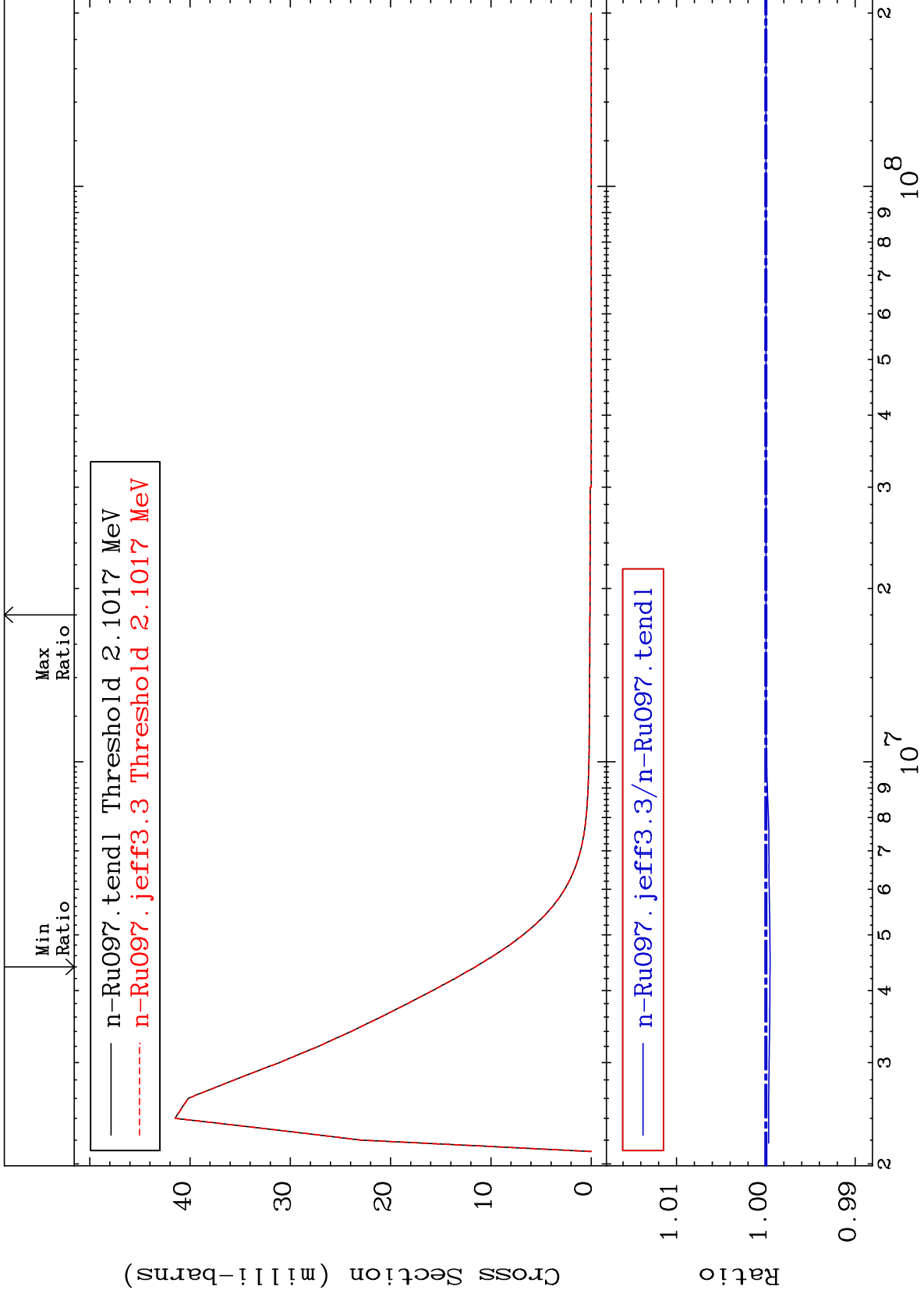
44-Ru-97
-0.051 To 0.001 %



MAT 4428

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

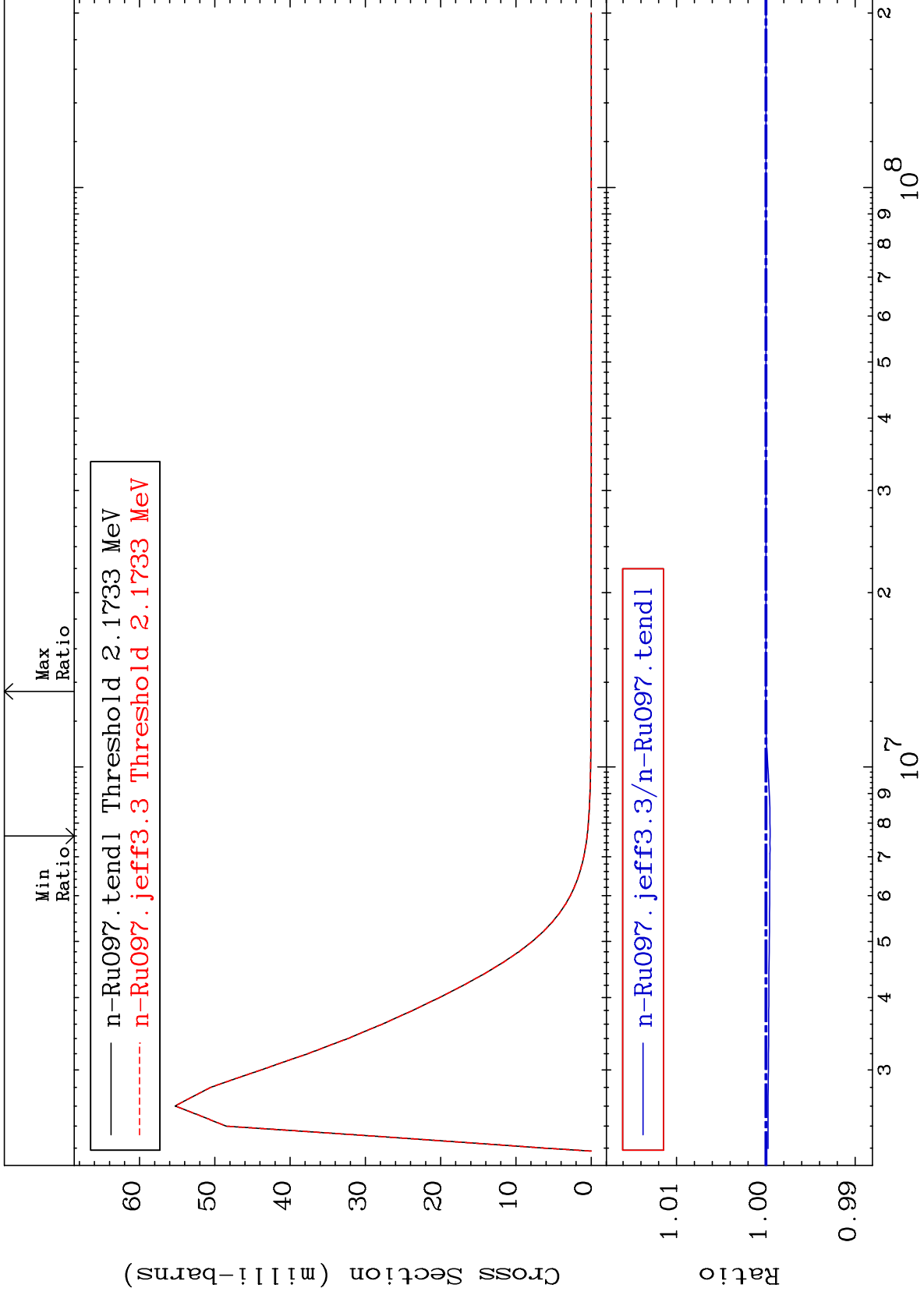
44-Ru-97
-0.047 To 0.000 %



MAT 4428

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

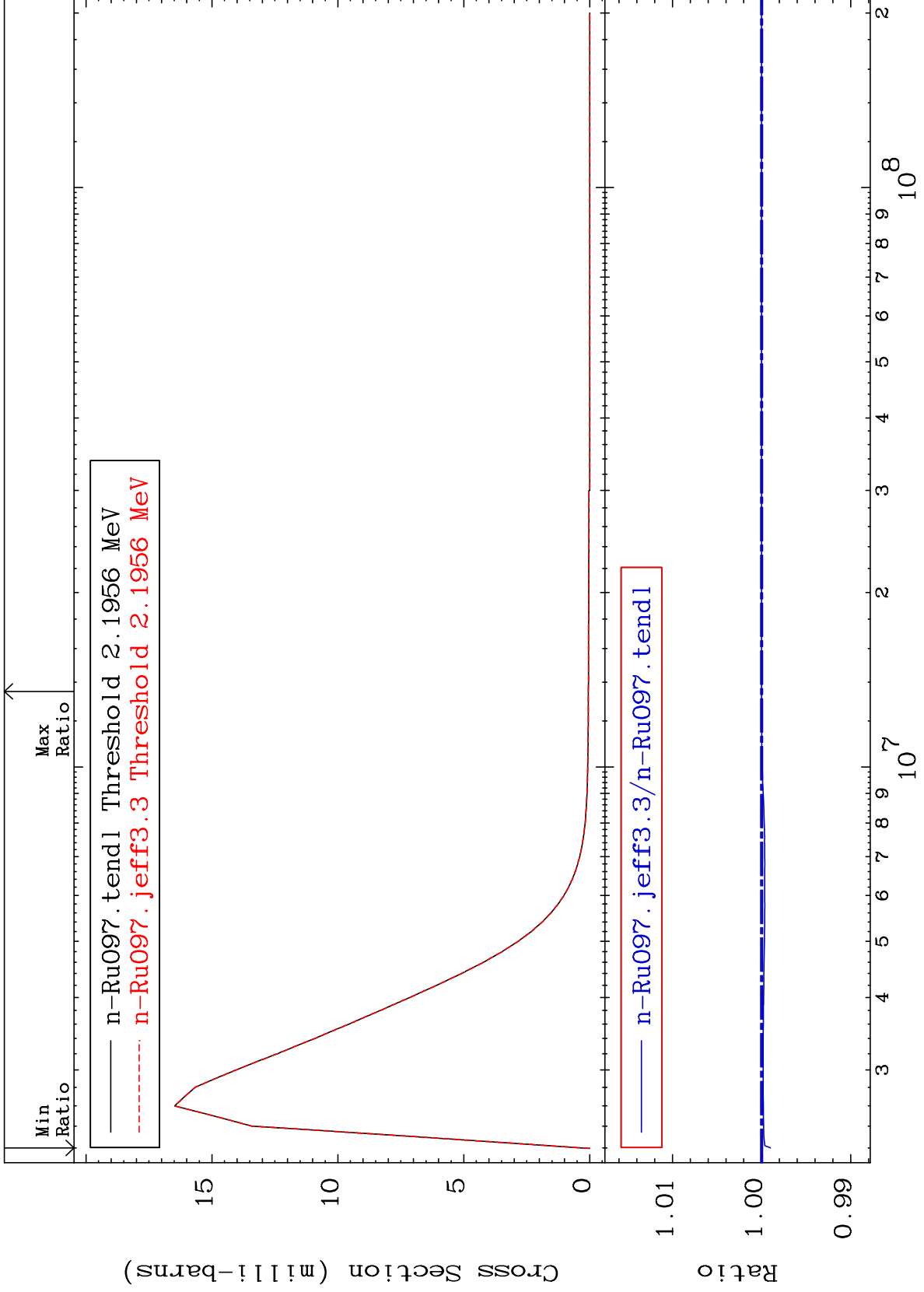
44-Ru-97
-0.048 To 0.002 %



MAT 4428

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

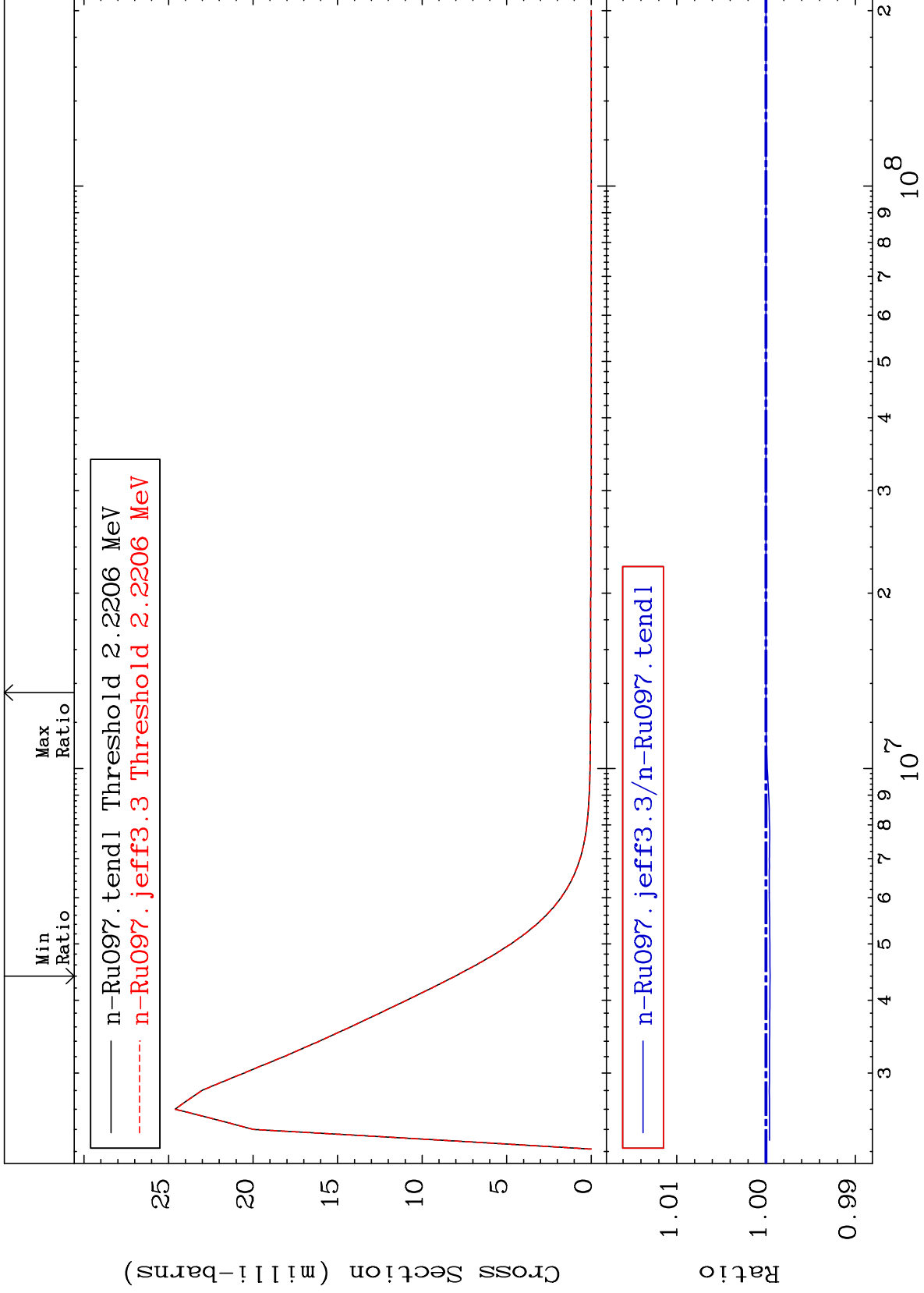
44-Ru-97
-0.099 To 0.000 %



MAT 4428

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

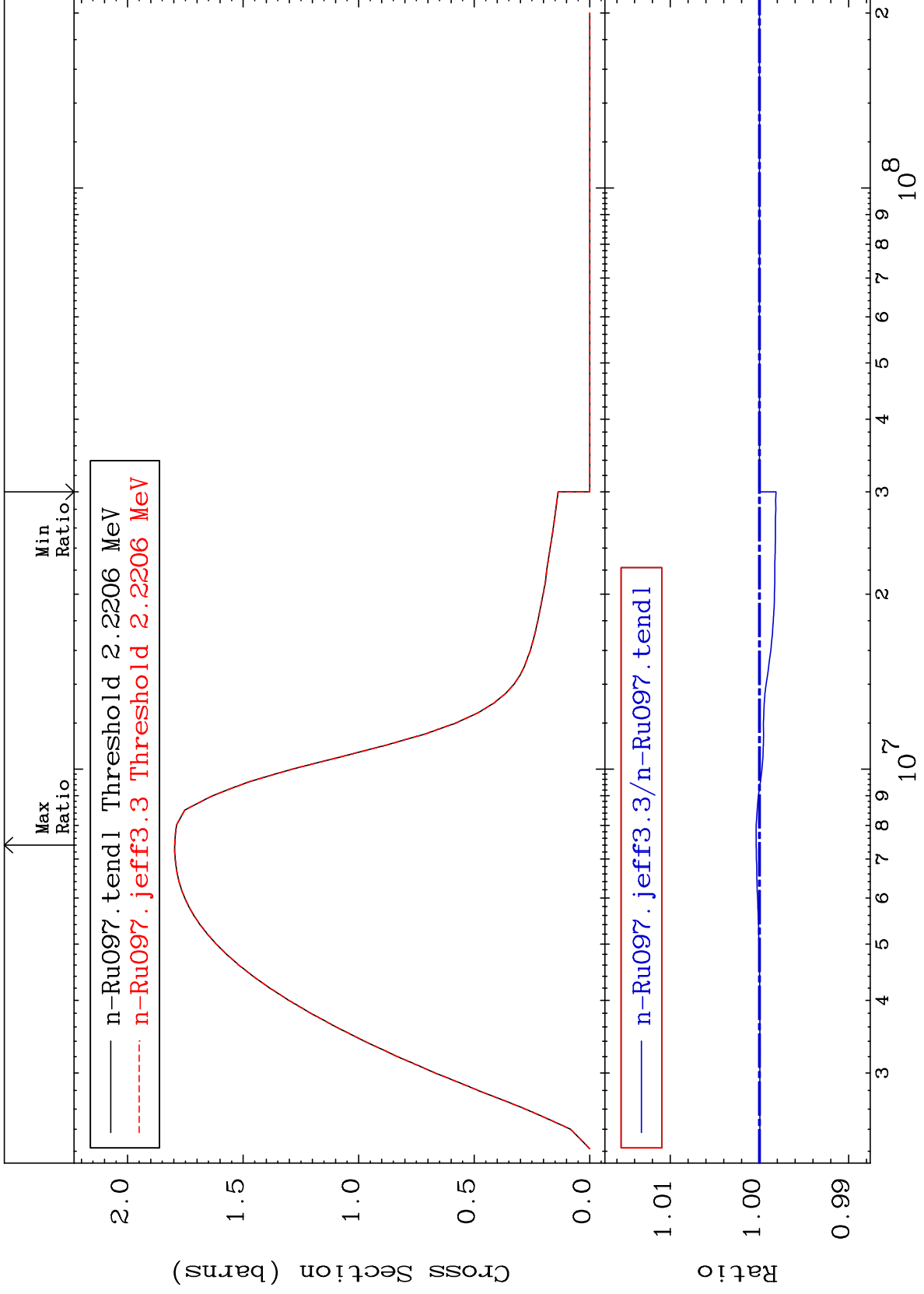
44-Ru-97
-0.045 To 0.001 %



MAT 4428

(n, n') Continuum
Cross Section

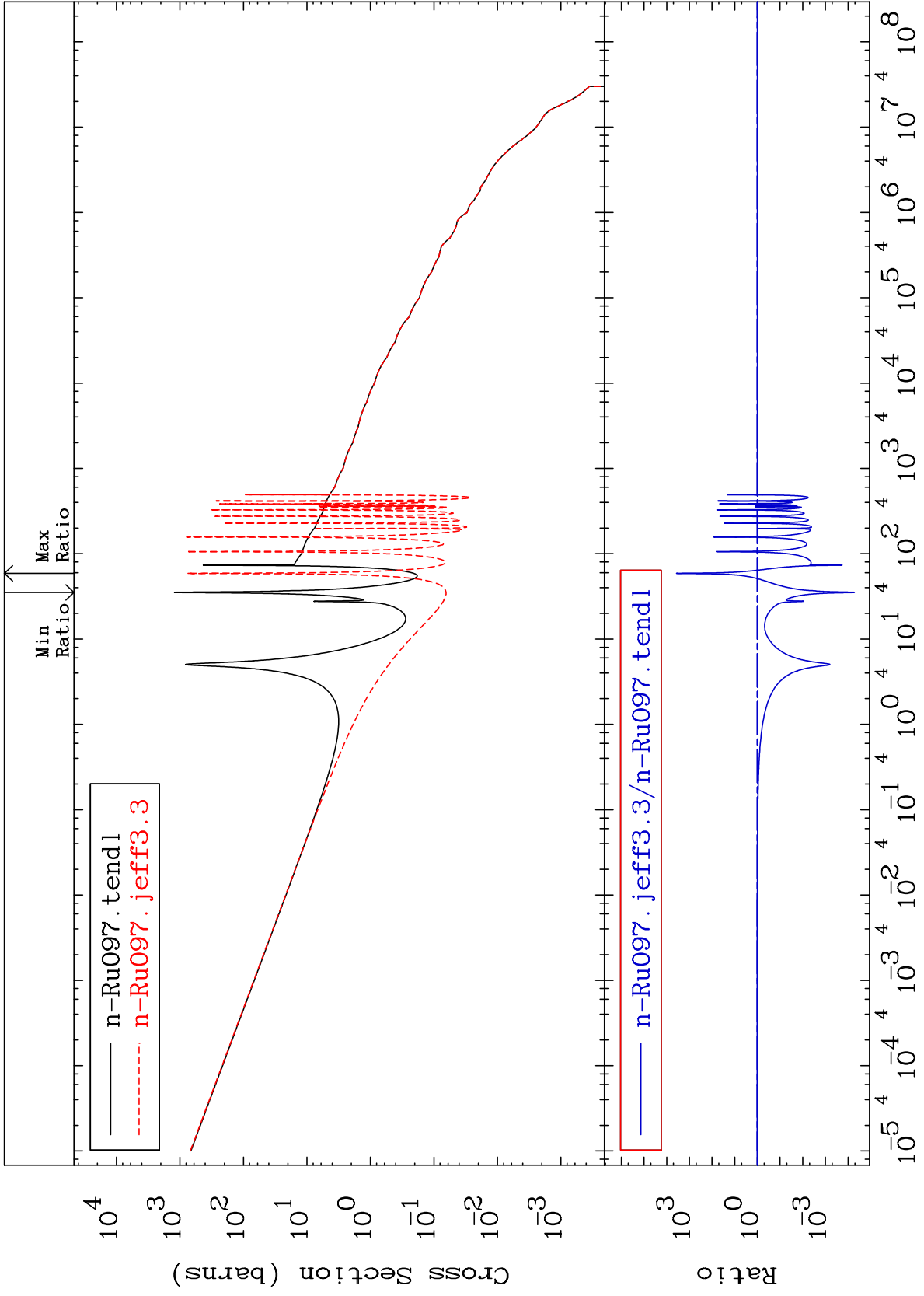
44-Ru-97
-0.185 To 0.038 %



50

Incident Energy (eV)

44-Ru-97

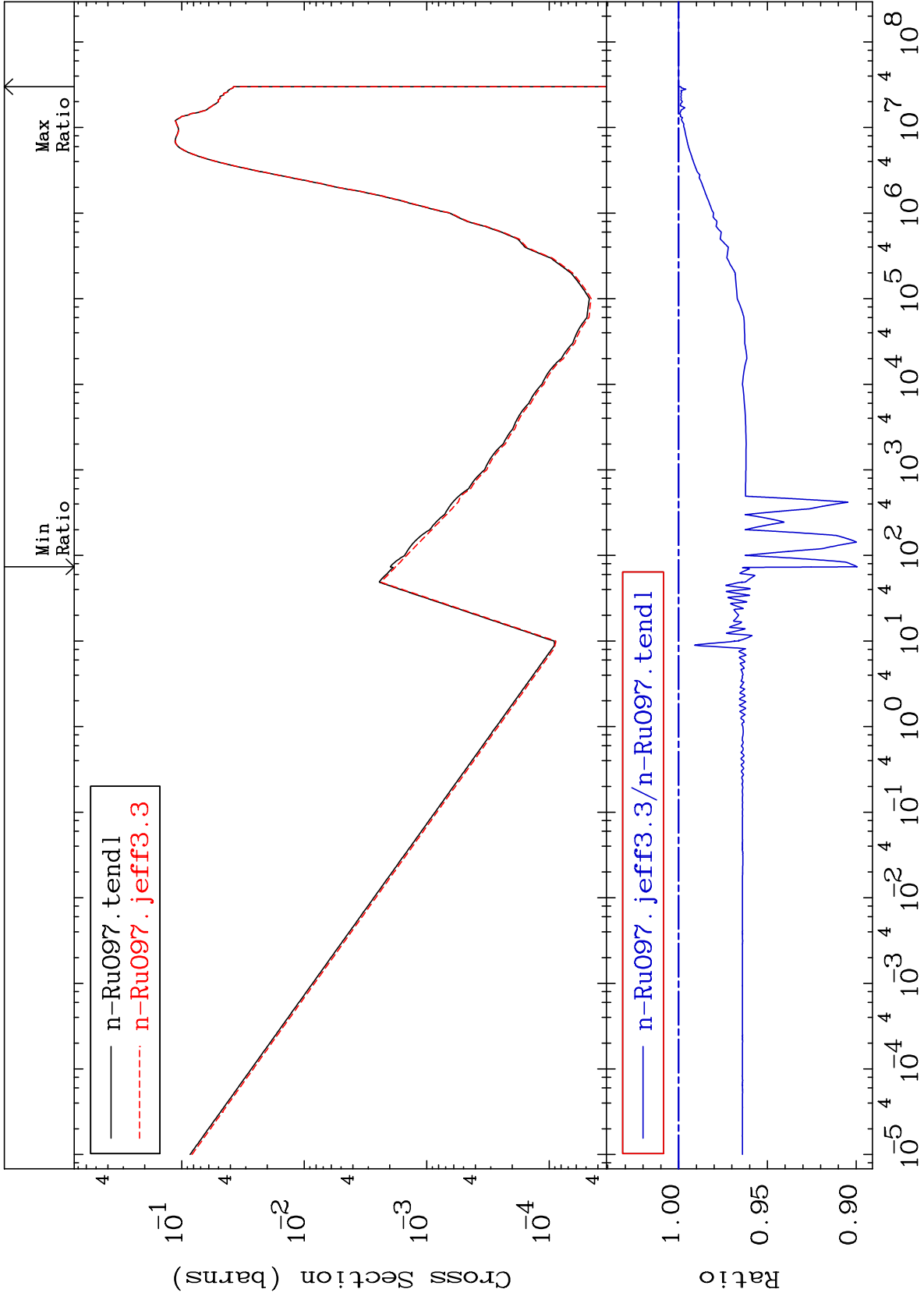


MAT 4428

44-Ru-97

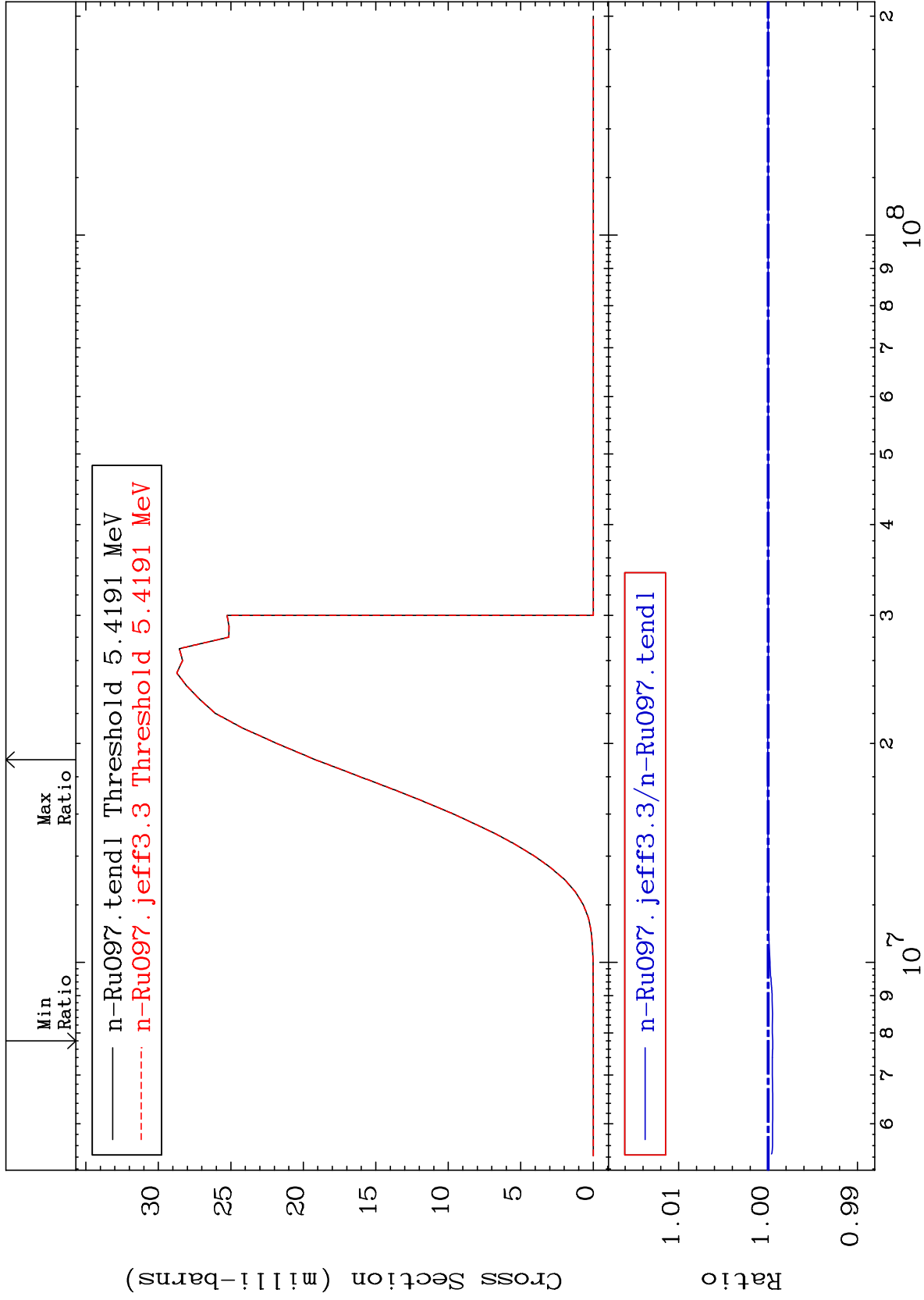
(n, p)
Cross Section

-10.06 To 0.000 %

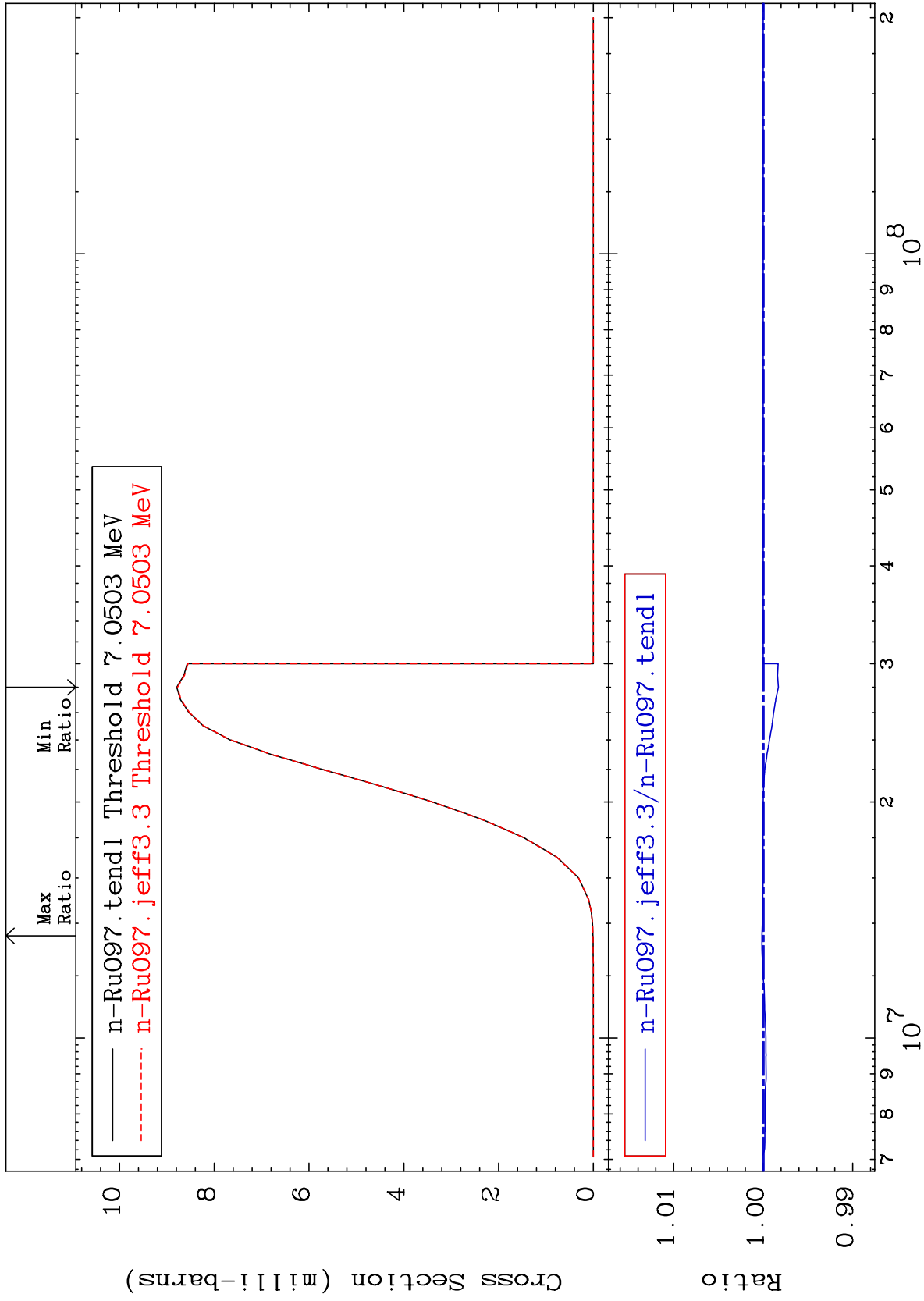


Cross Section

-0.051 To 0.006 %

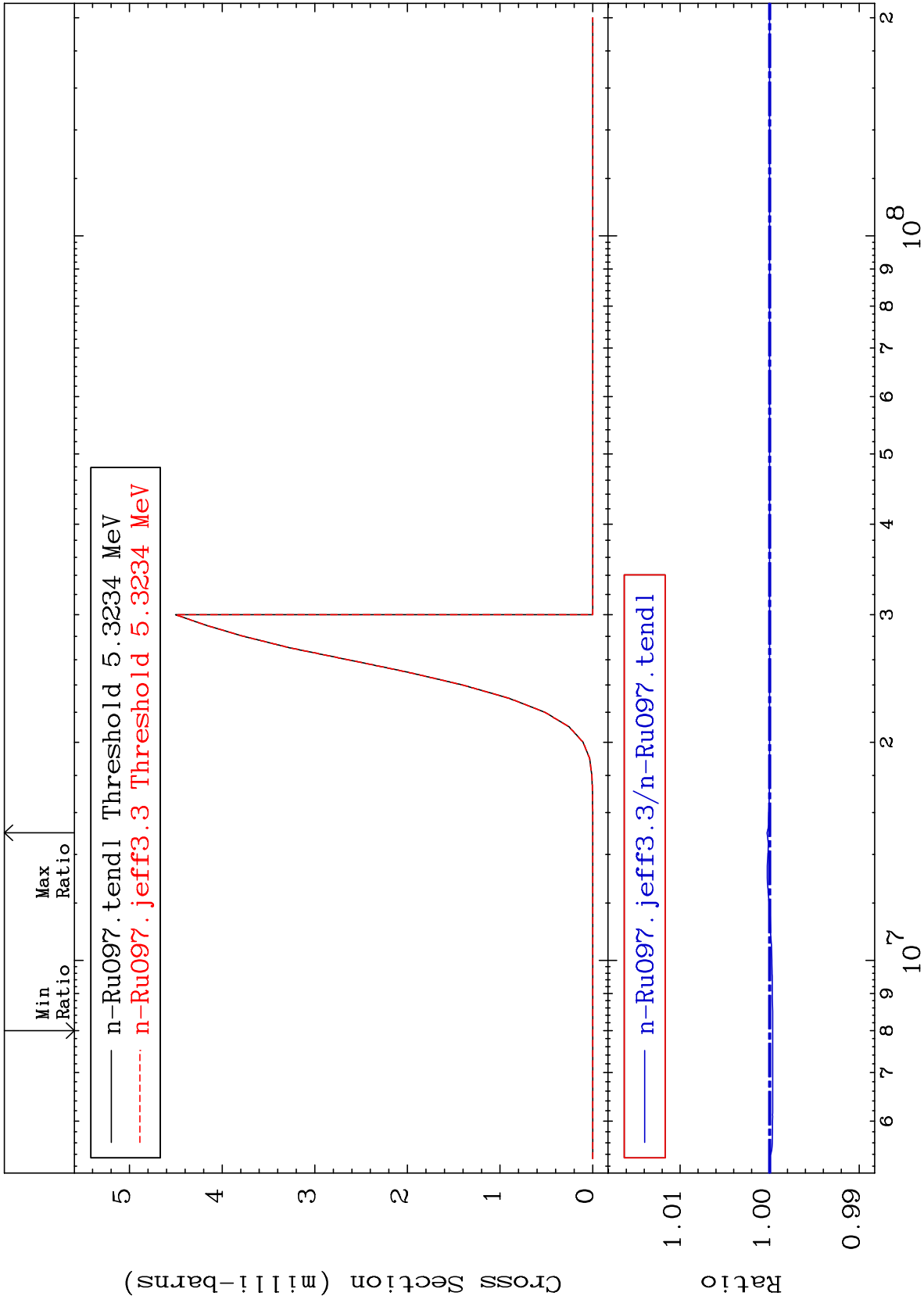


(n, t)
Cross Section
-0.169 To 0.013 %



Cross Section

-0.035 To 0.029 %



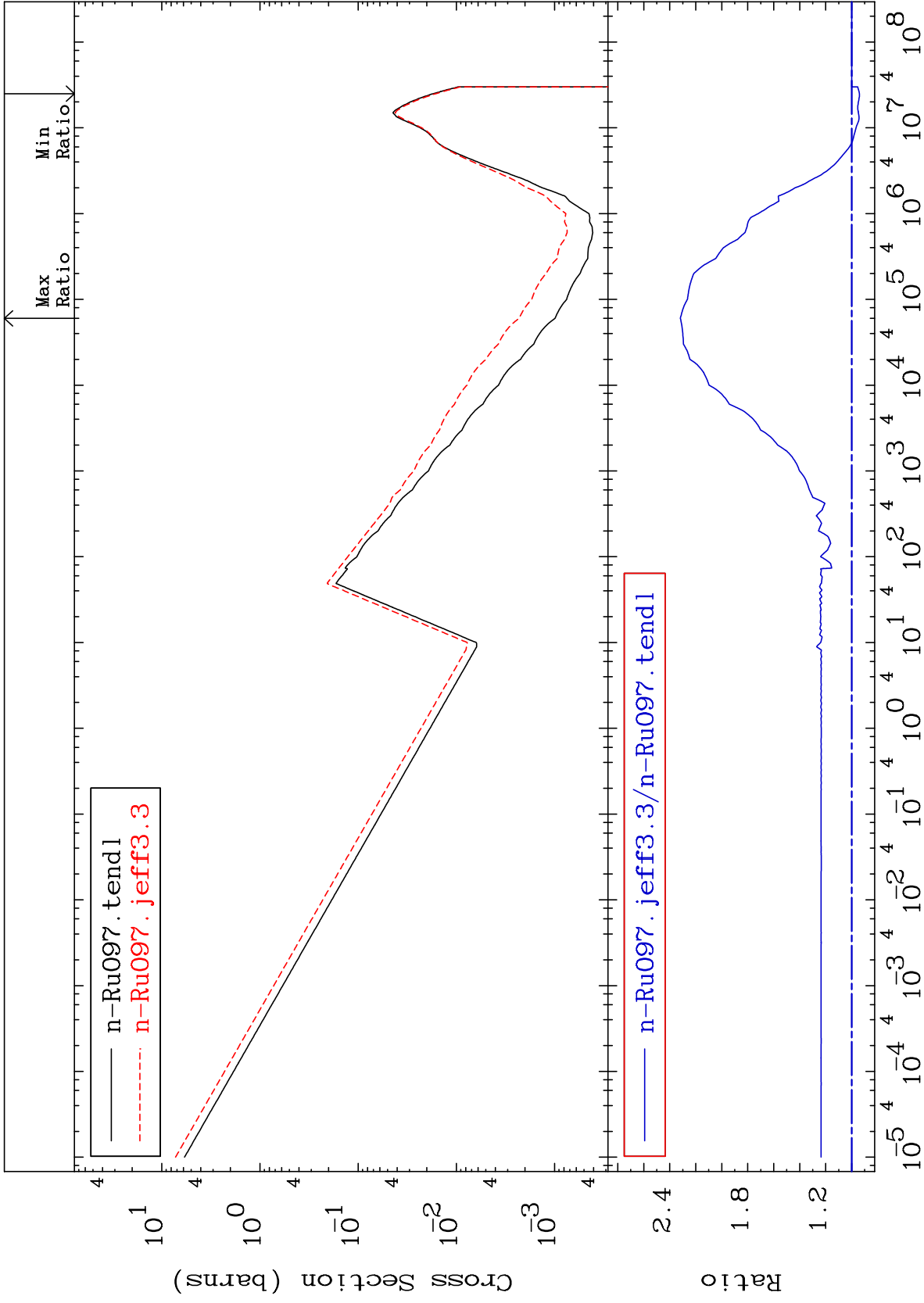
MAT 4428

(n, α)

44-Ru-97

Cross Section

-5.938 To 131.8 %



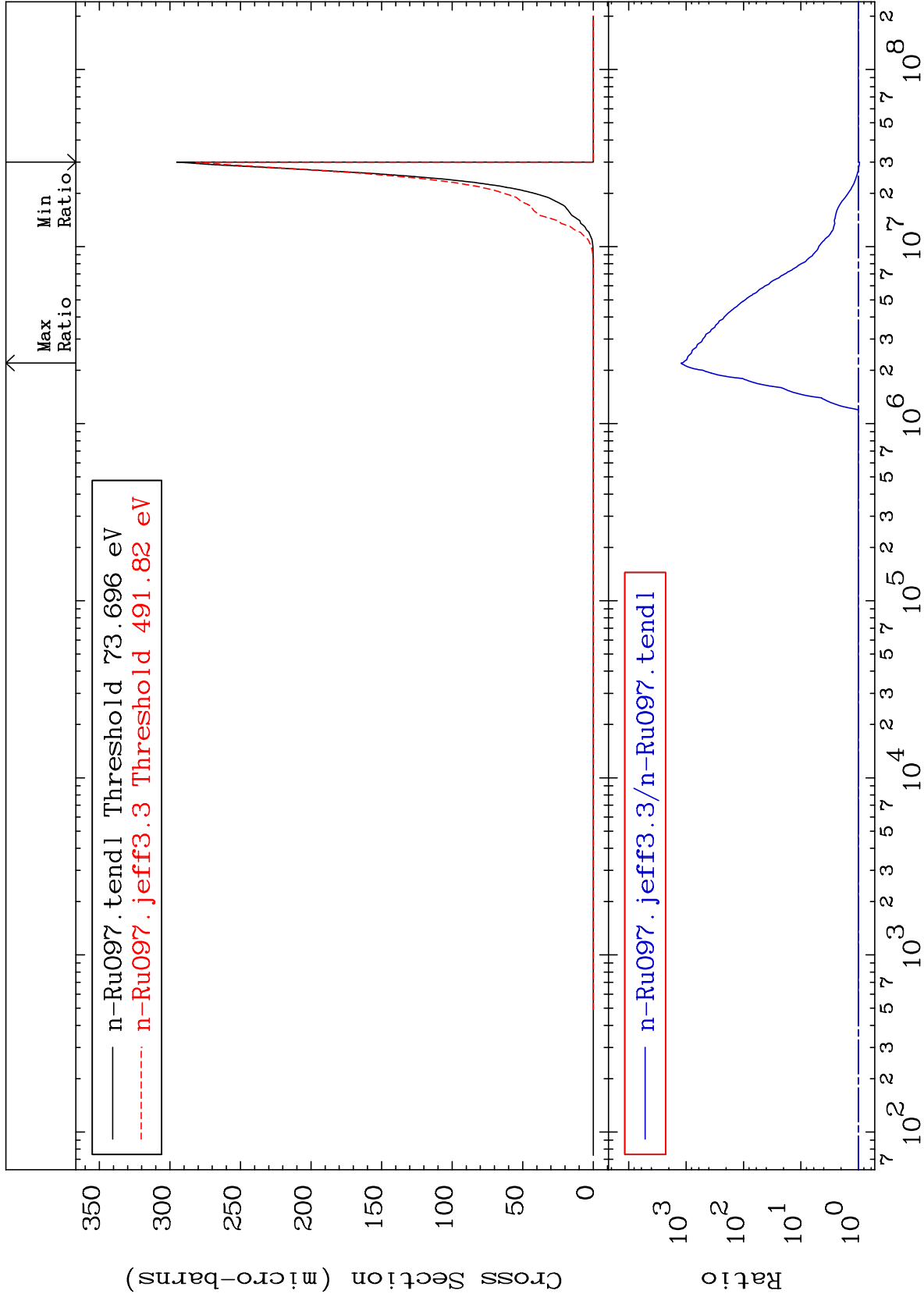
56

Incident Energy (eV)

44-Ru-97

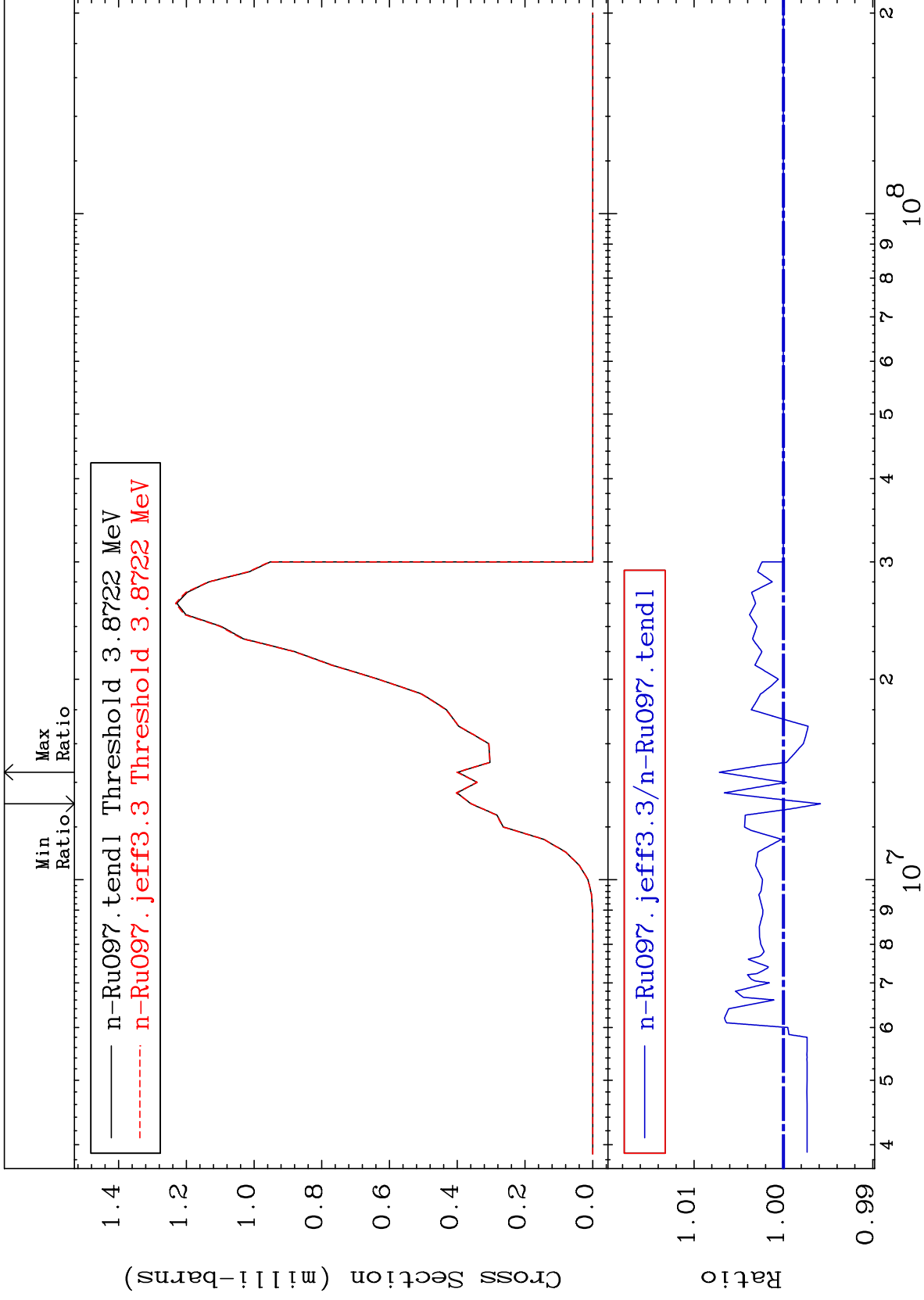
Cross Section

-4.610 To 9999. %



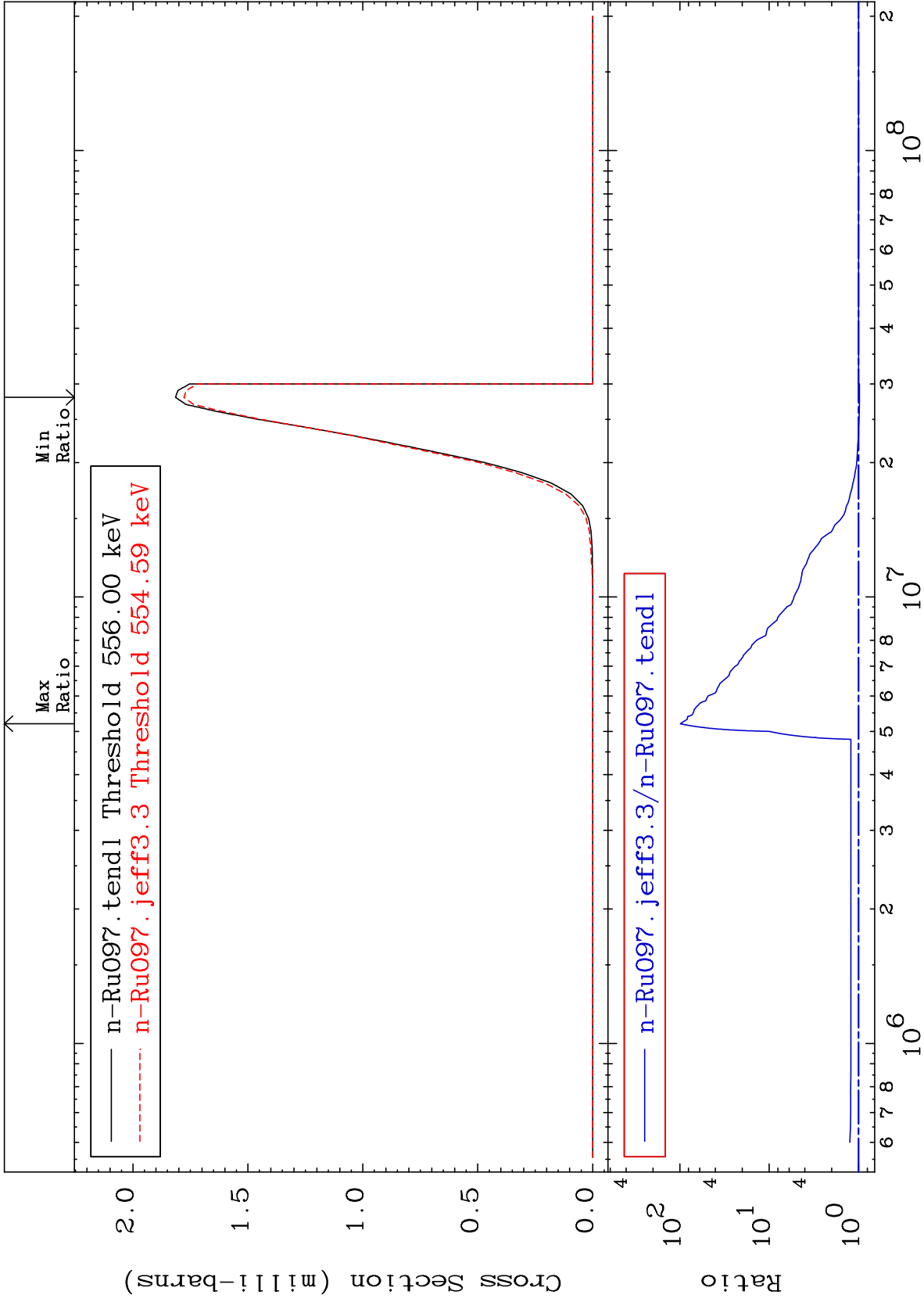
Cross Section

-0.414 To 0.717 %



-2.020 To 9766. %

Cross Section



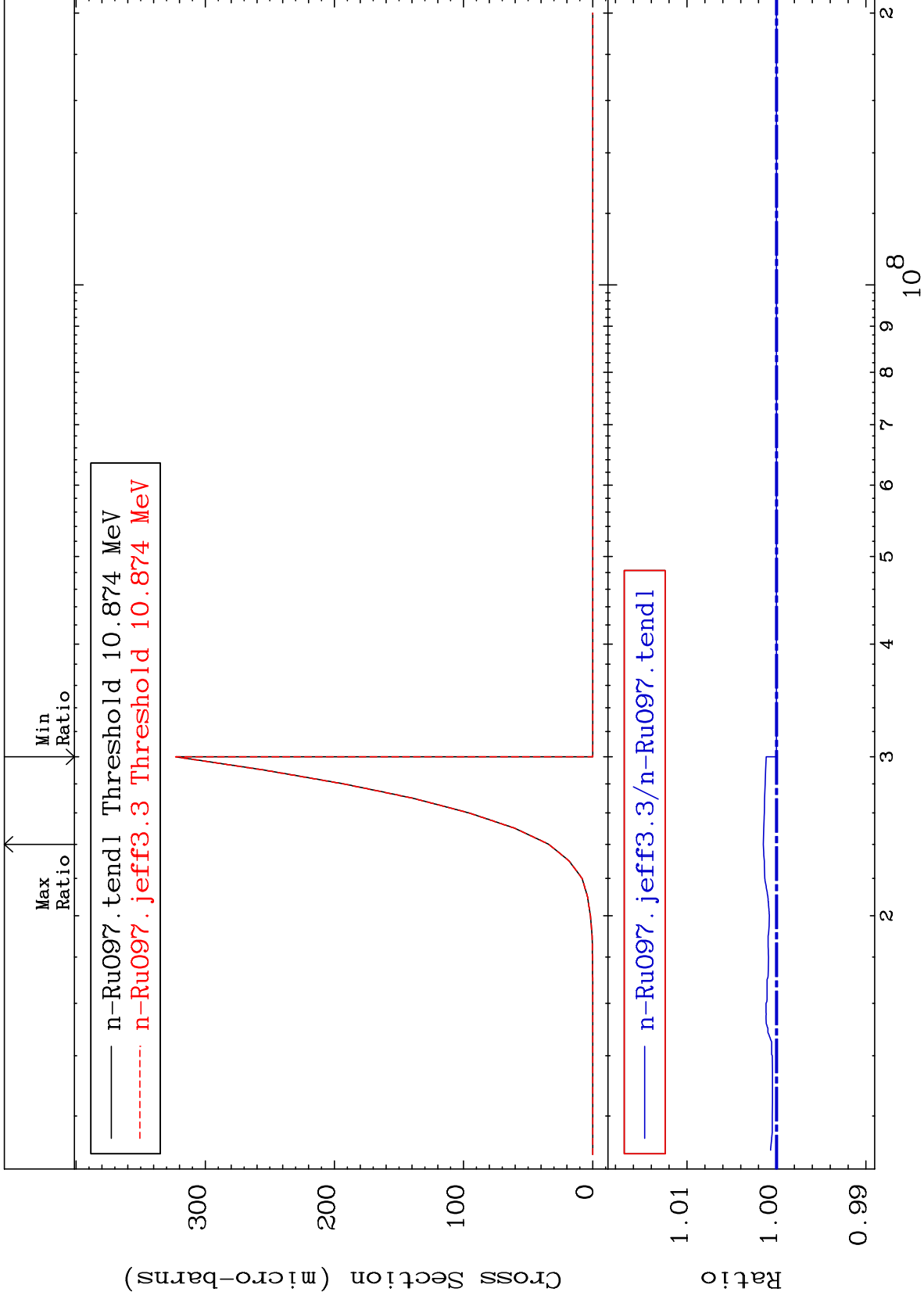
MAT 4428

(n, p) d

44-Ru-97

Cross Section

0.000 To 0.147 %



60

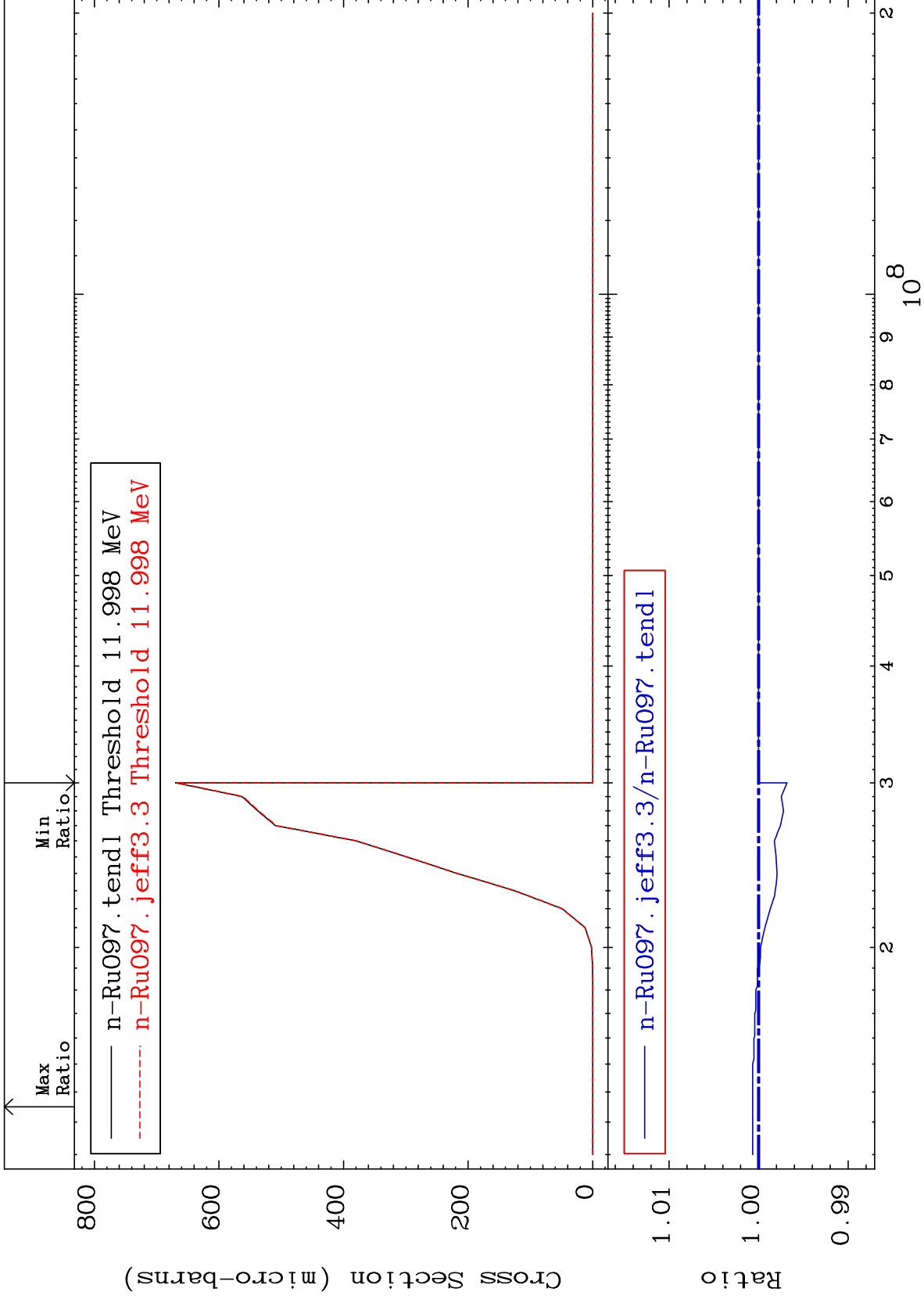
Incident Energy (eV)

44-Ru-97

MAT 4428

(n, p) t
Cross Section

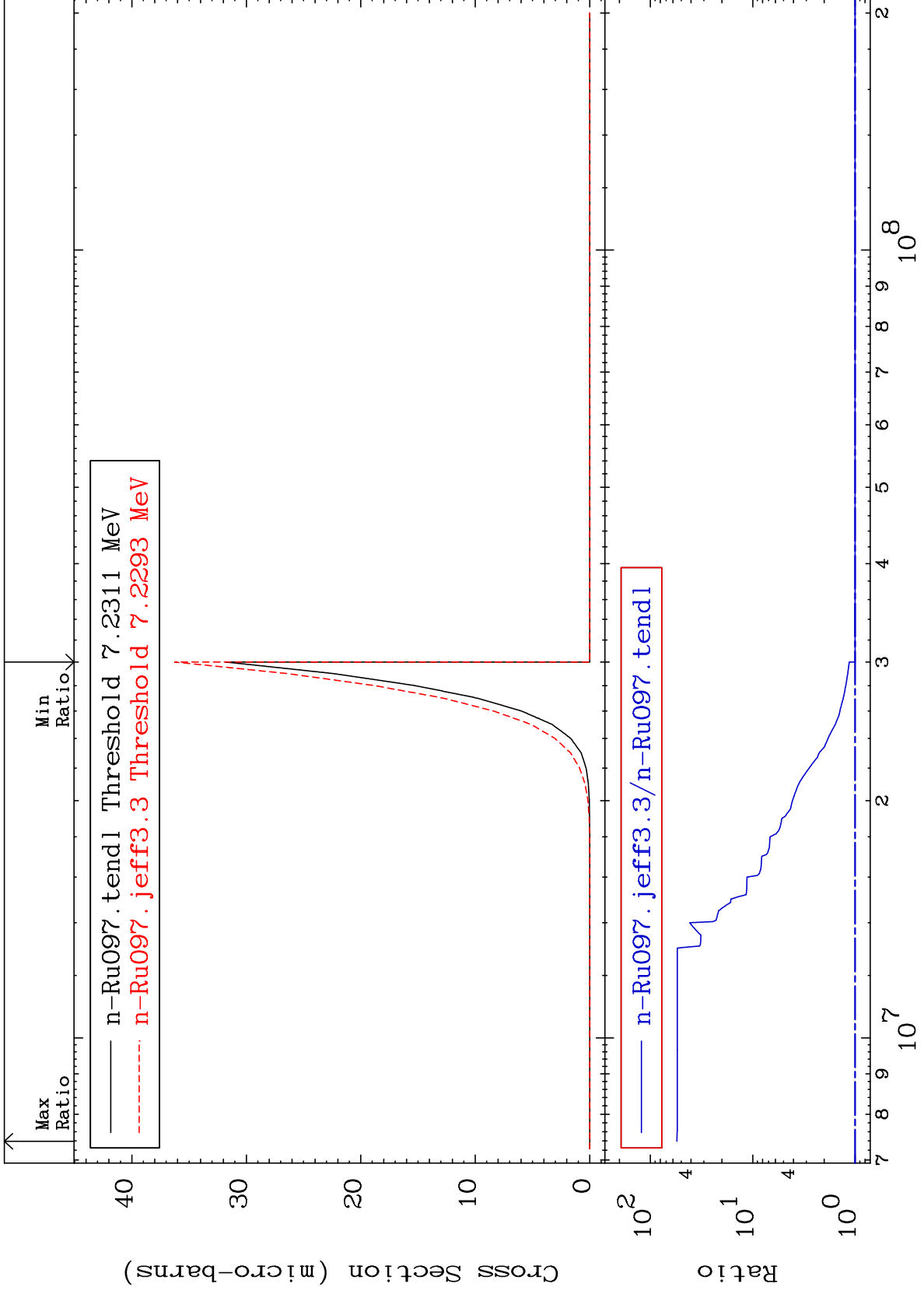
44-Ru-97
-0.318 To 0.066 %

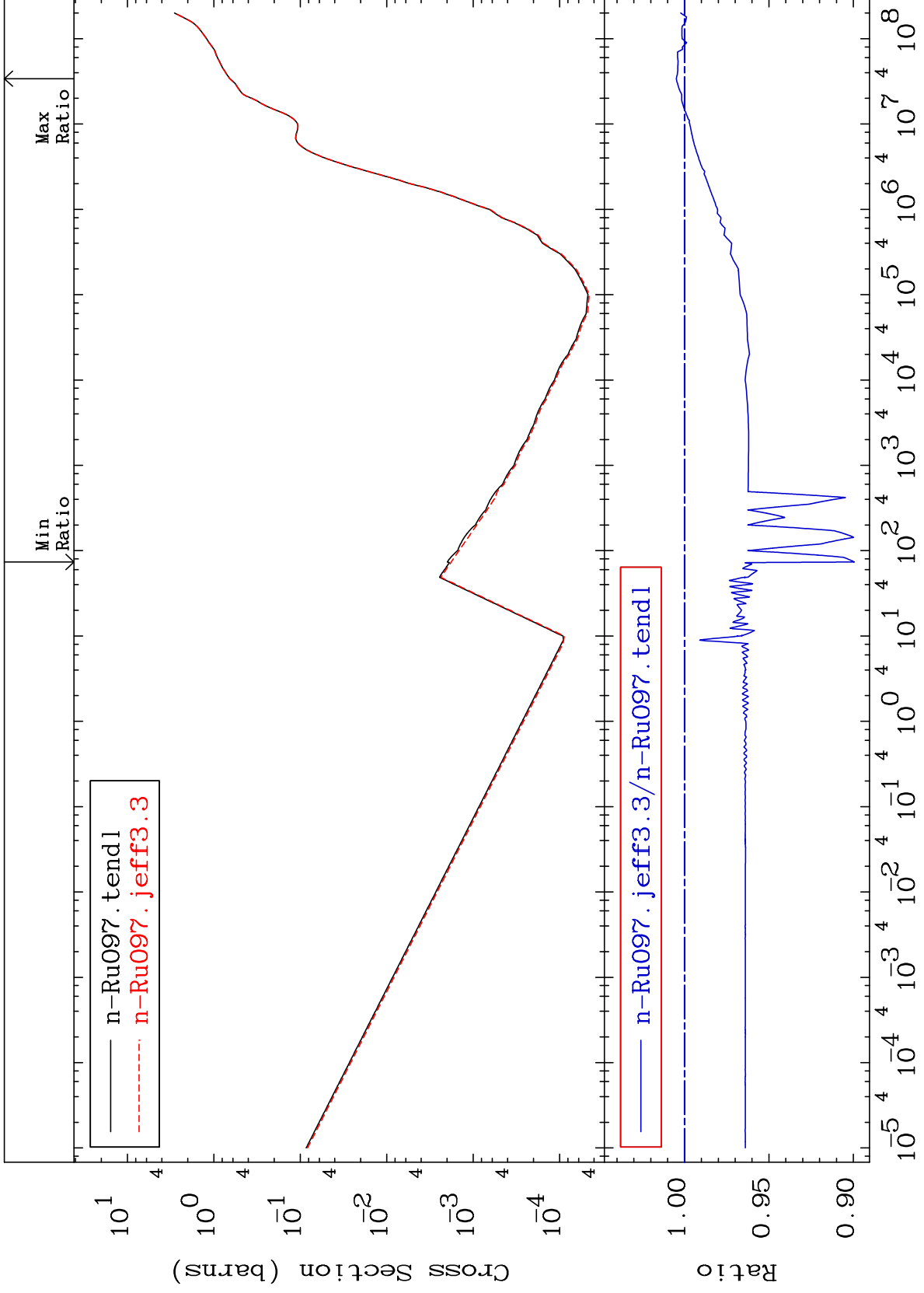


MAT 4428

(n, d) α

44-Ru-97
0.000 To 5398. %

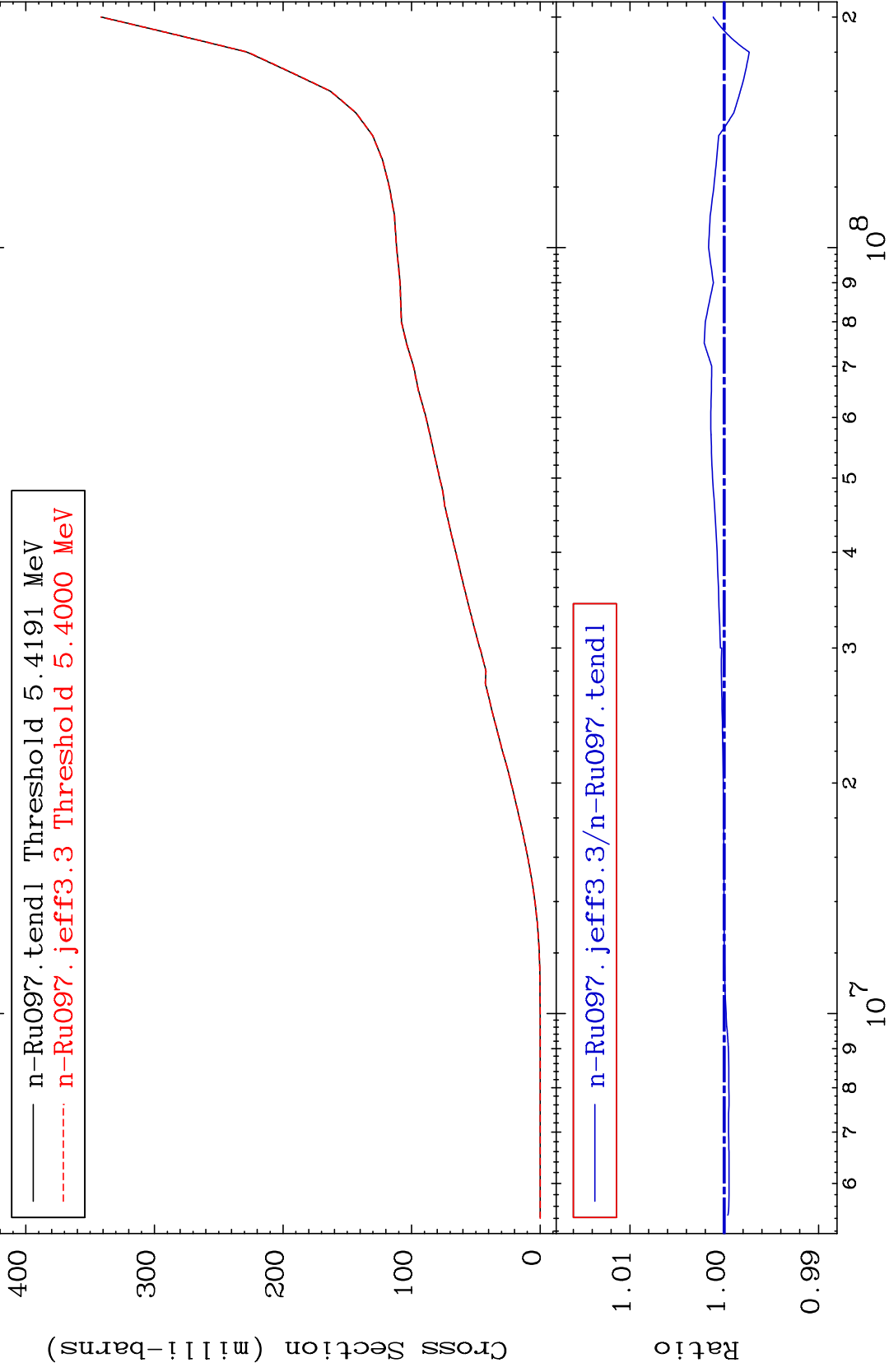




MAT 4428

Deuterium Production
Cross Section

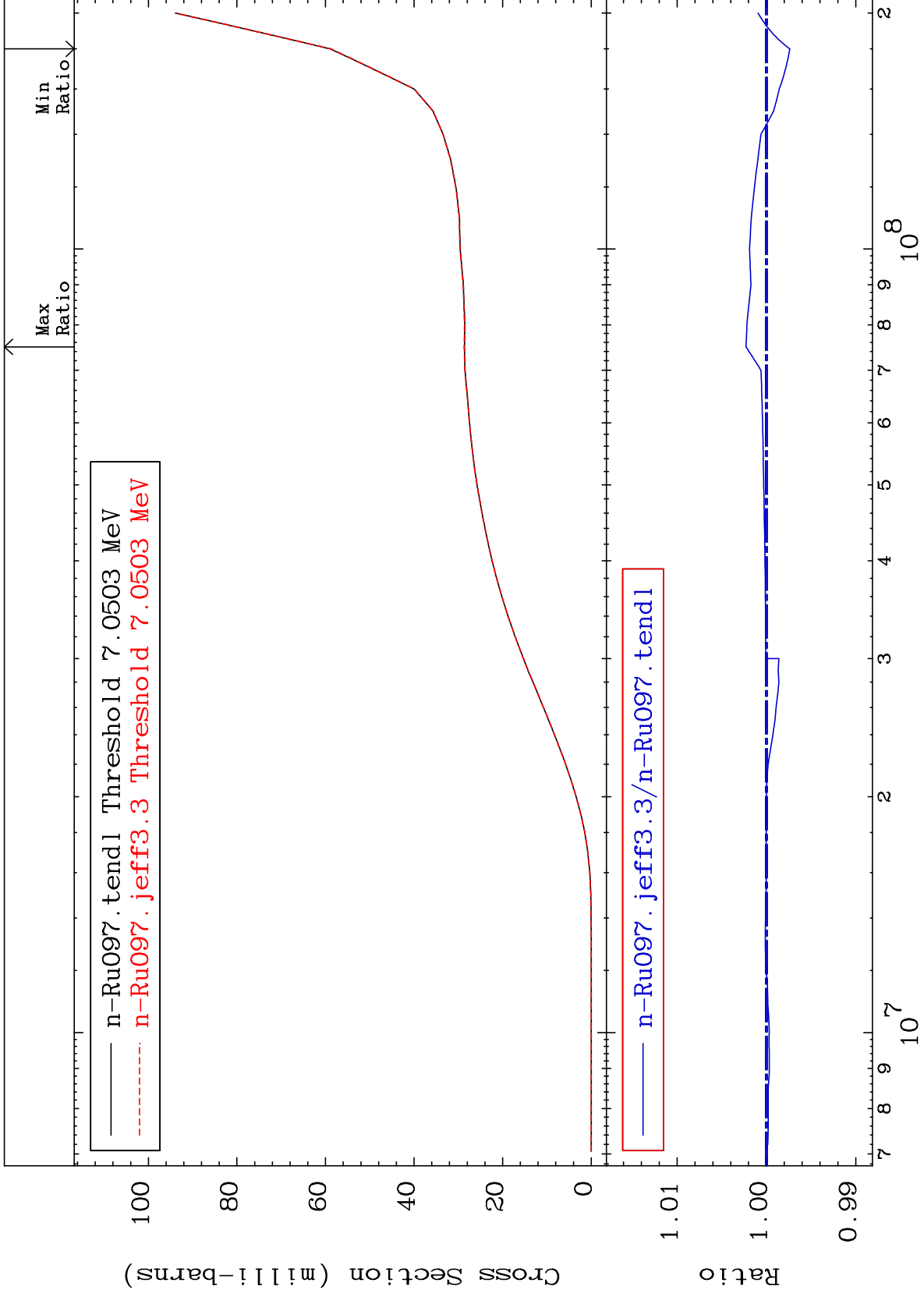
44-Ru-97
-0.265 To 0.211 %



MAT 4428

Tritium Production
Cross Section

44-Ru-97
-0.262 To 0.228 %



65

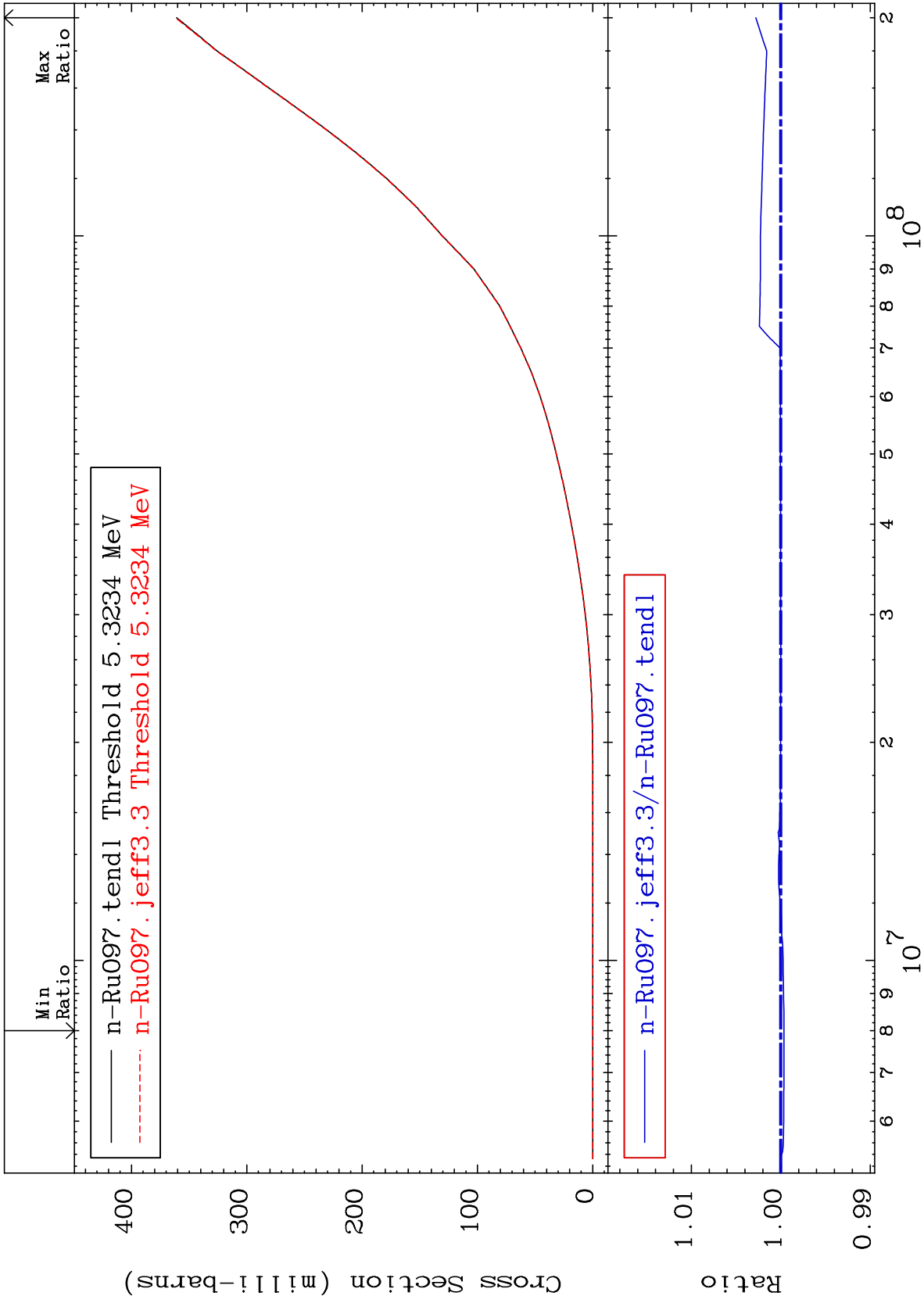
Incident Energy (eV)

44-Ru-97

MAT 4428

He-3 Production
Cross Section

44-Ru-97
-0.035 To 0.278 %



66

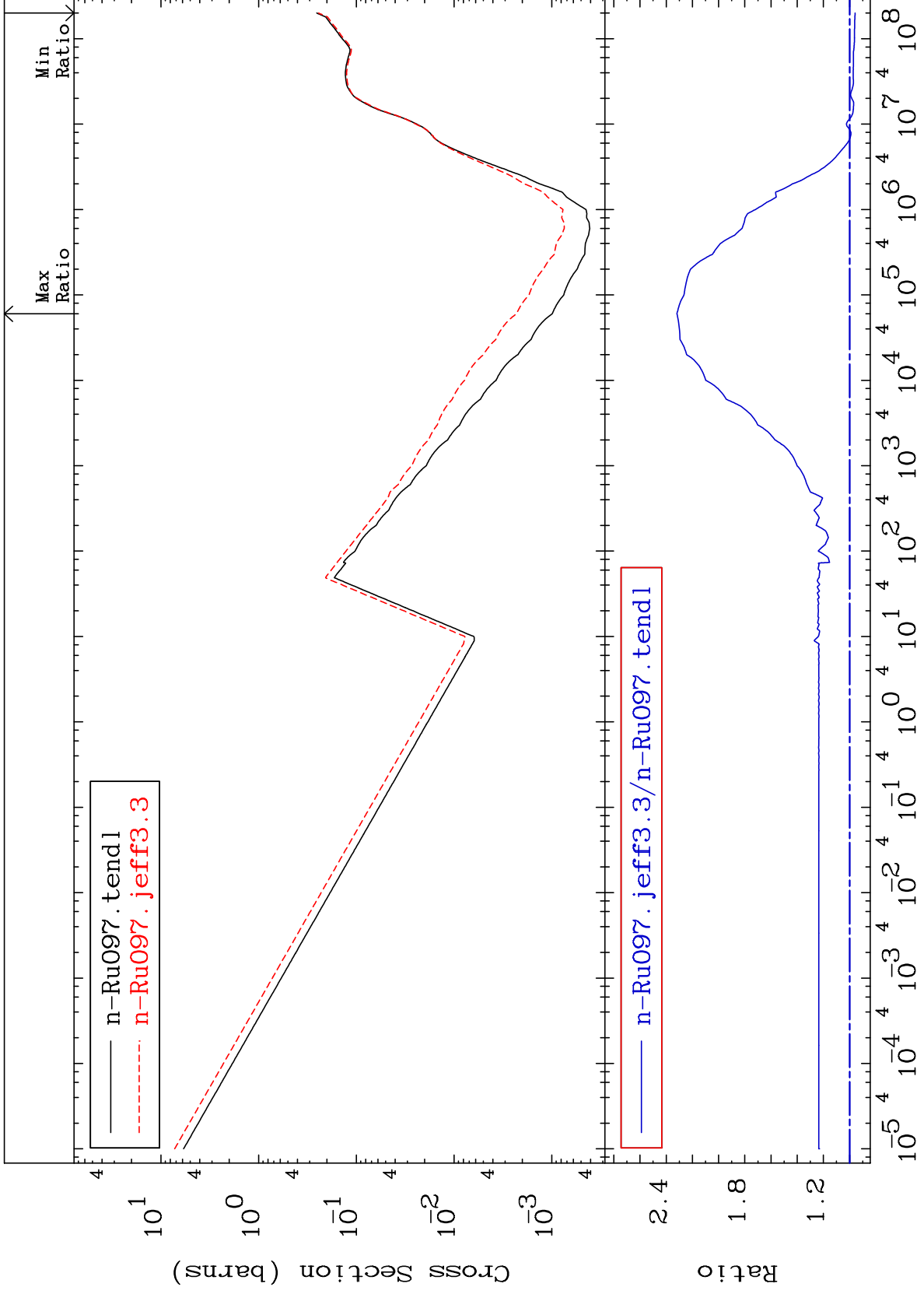
Incident Energy (eV)

44-Ru-97

MAT 4428

He-4 Production
Cross Section

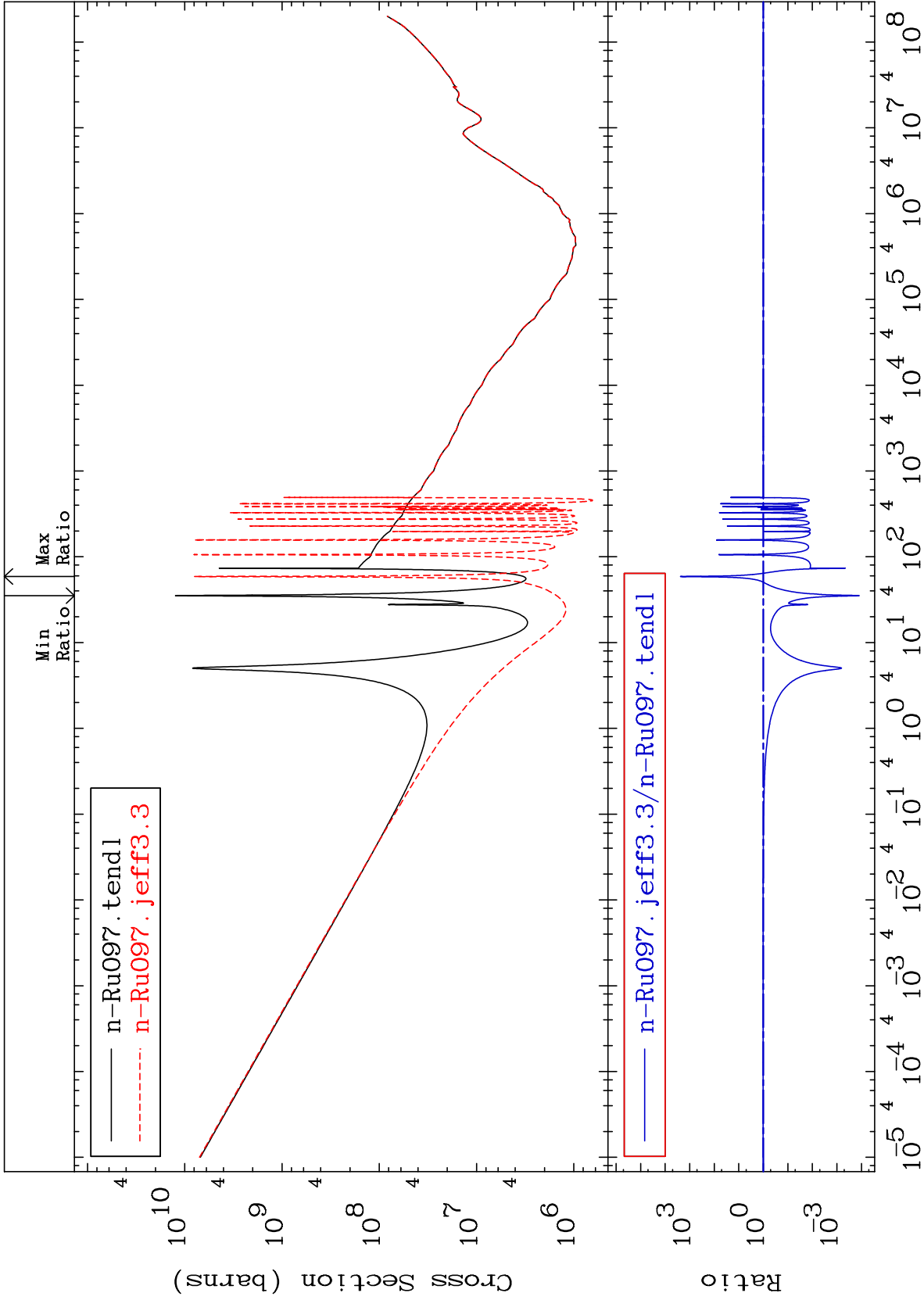
44-Ru-97
-4.180 To 131.8 %

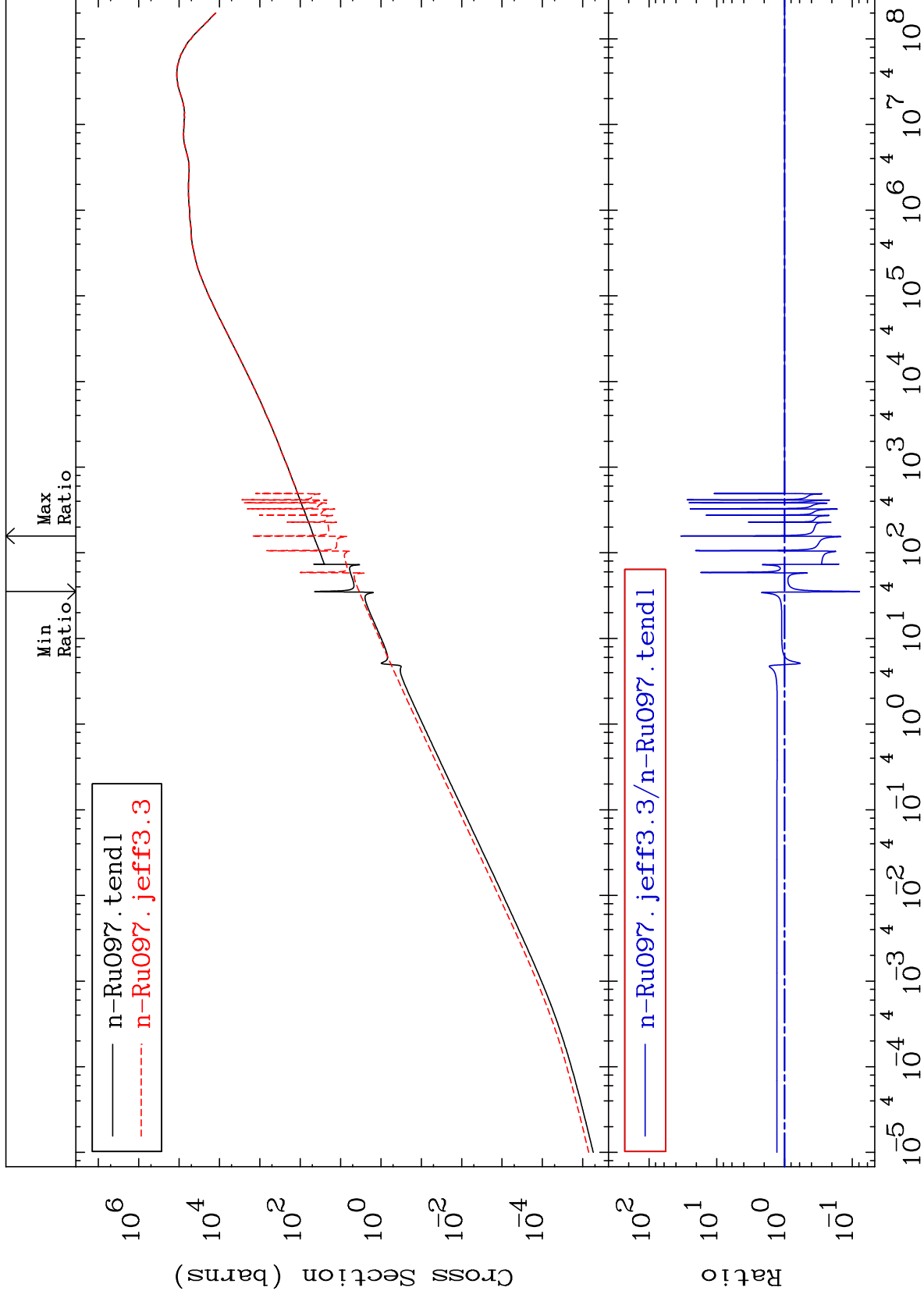


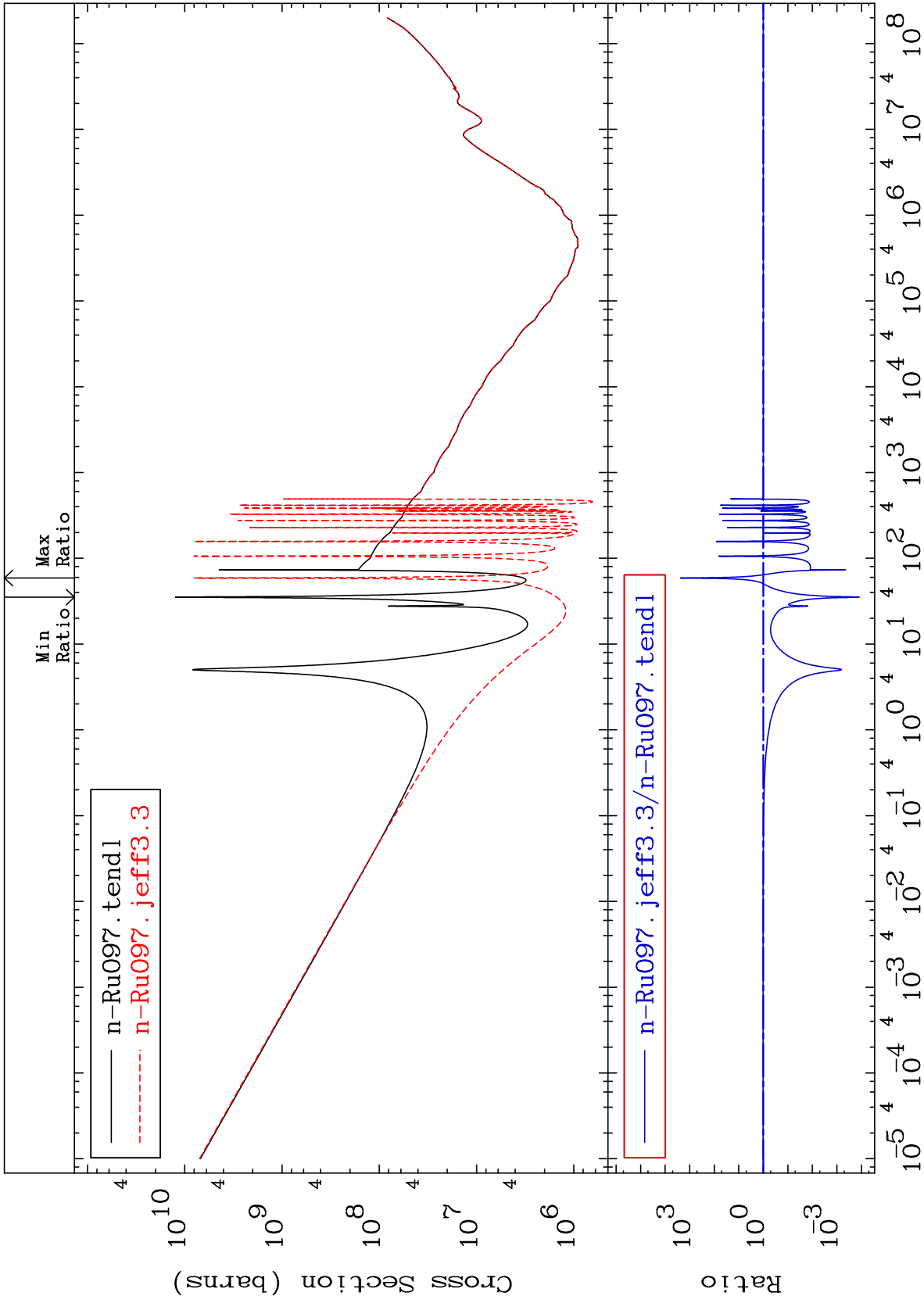
67

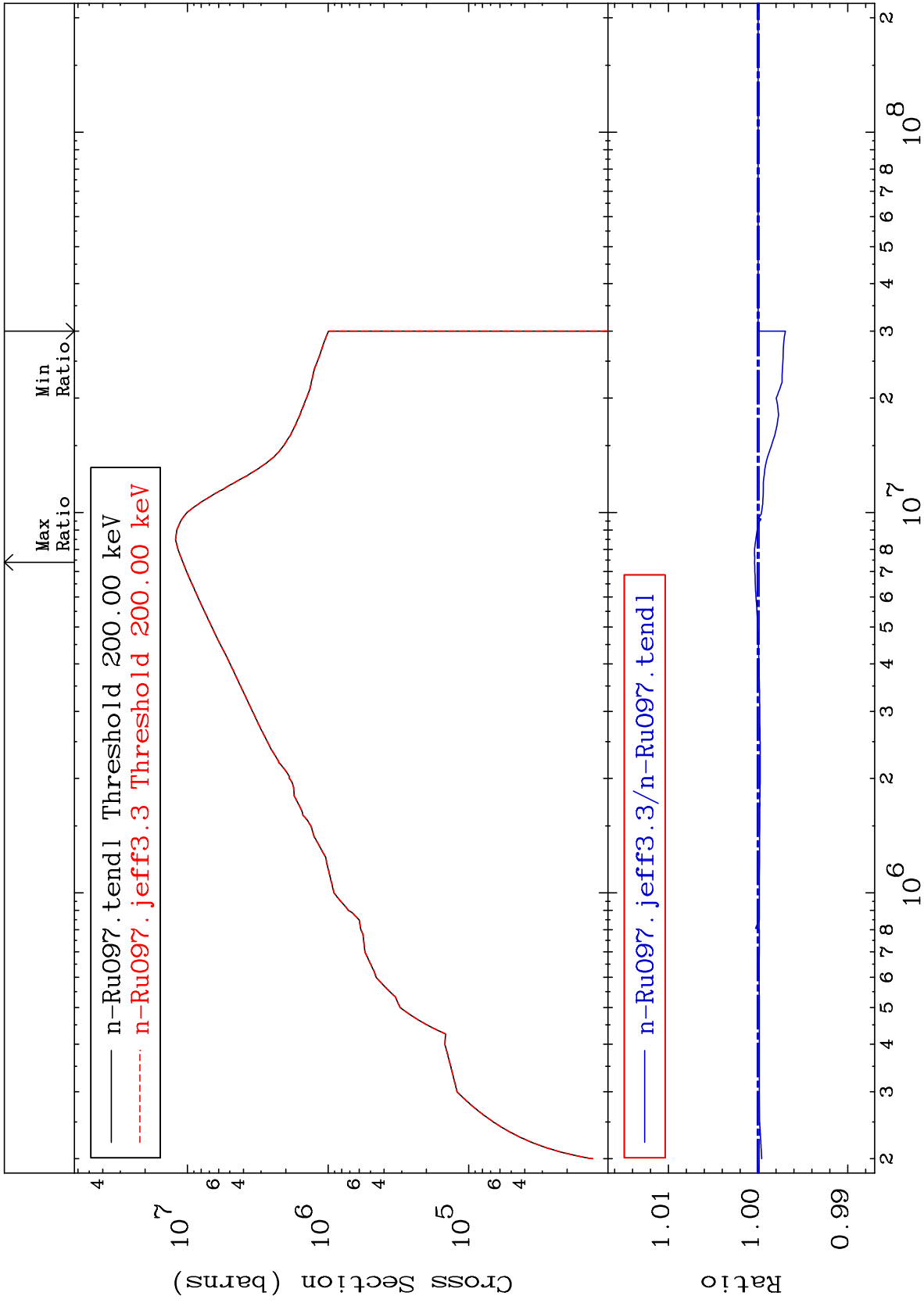
Incident Energy (eV)

44-Ru-97





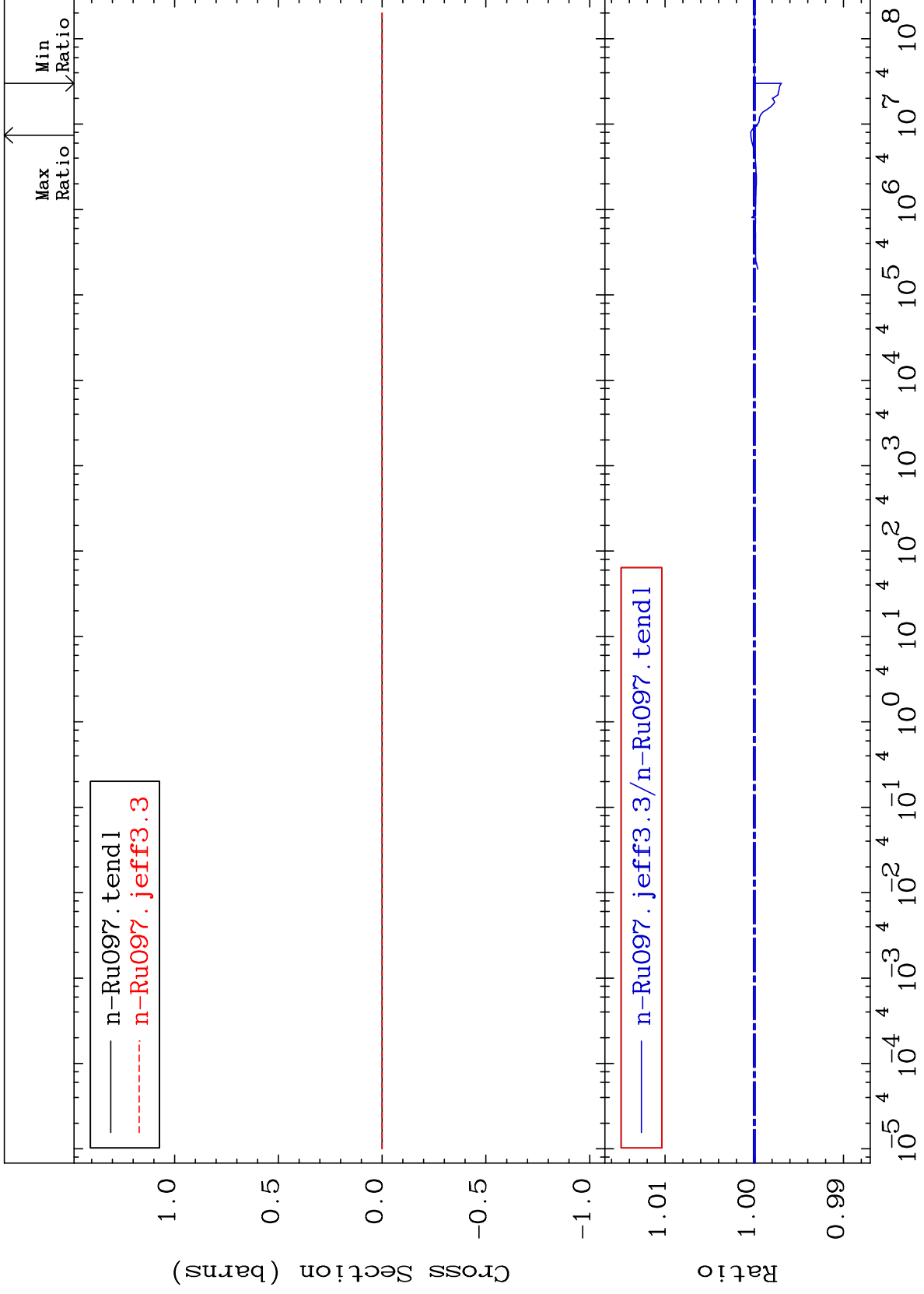


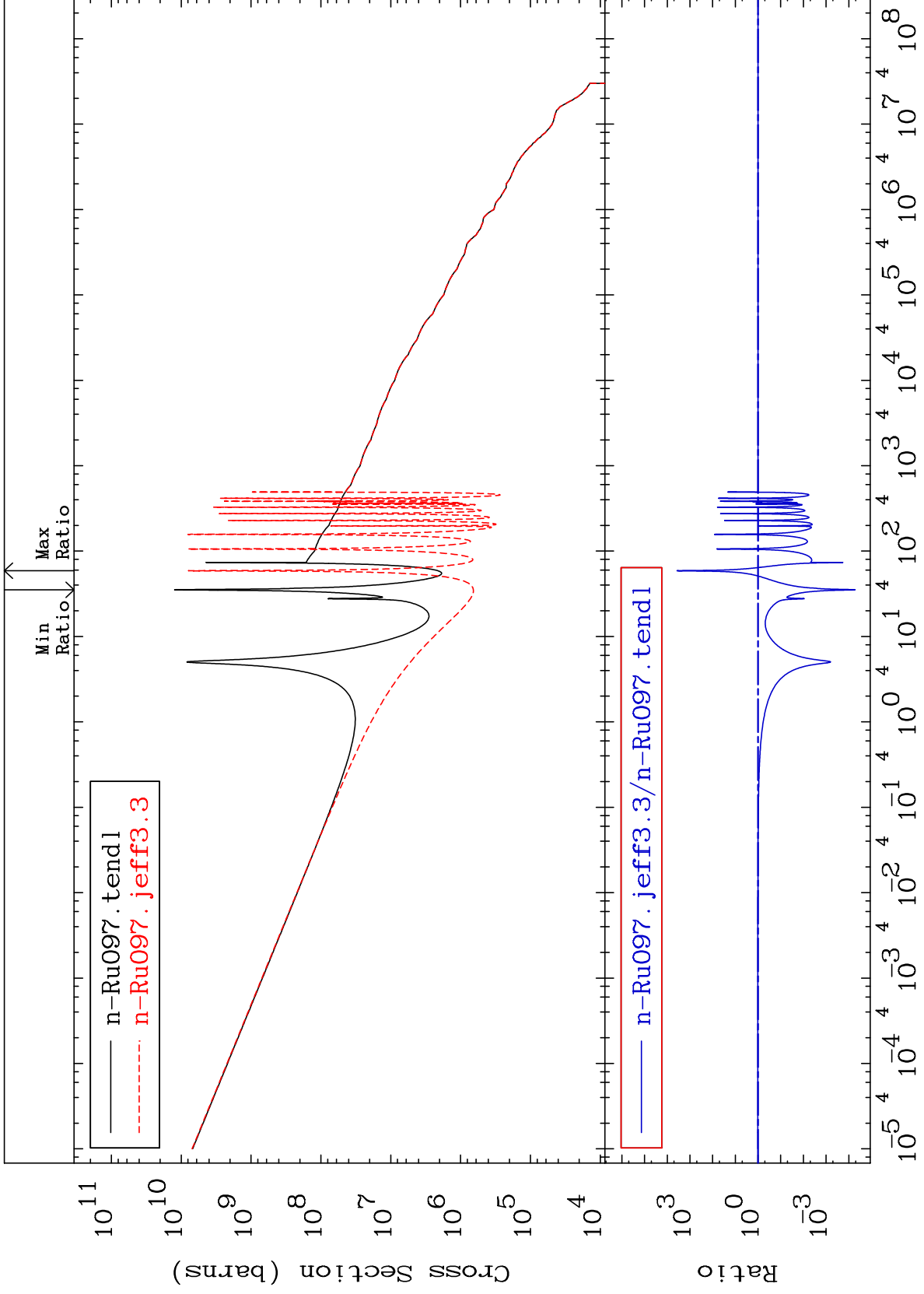


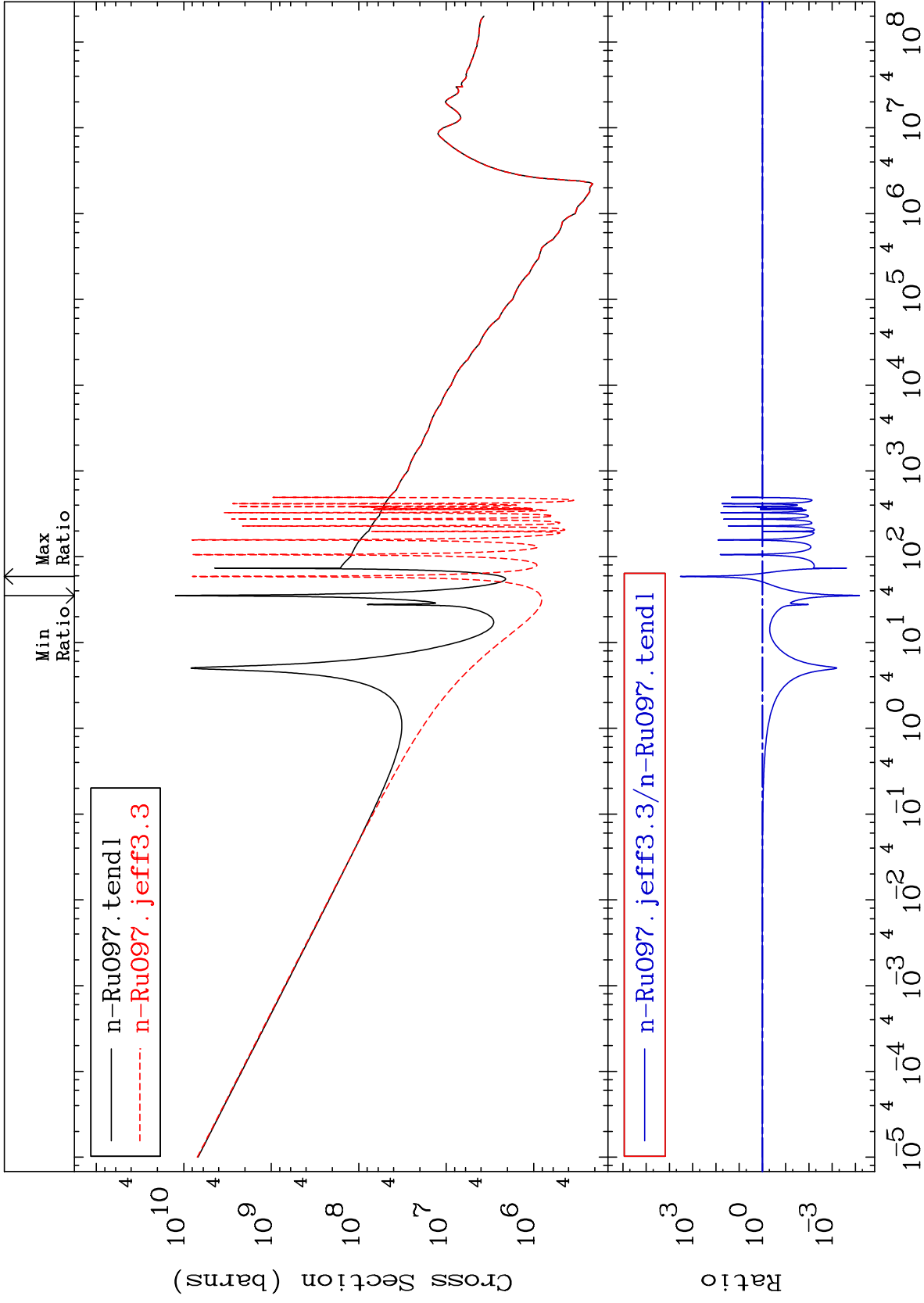
MAT 4428

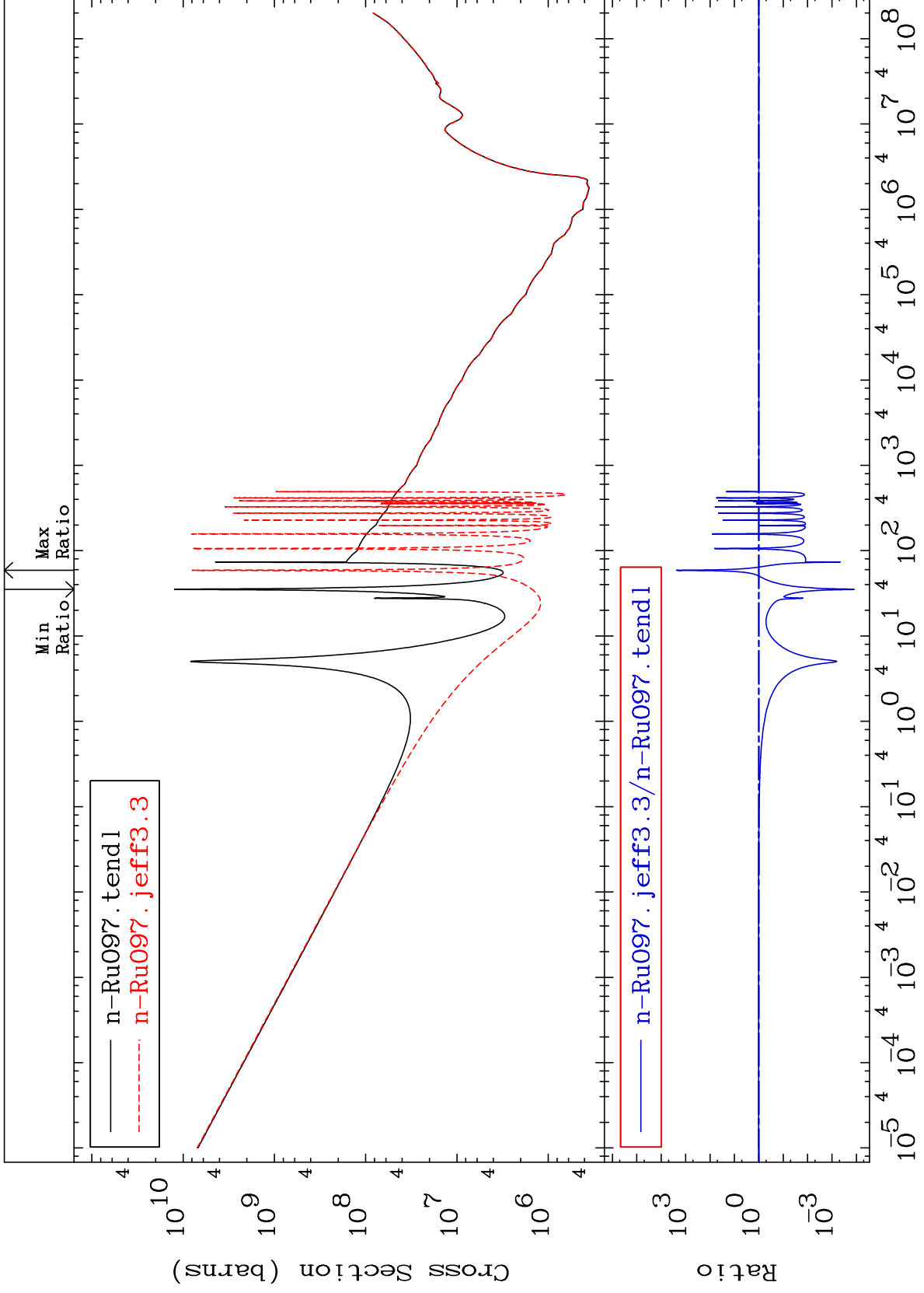
Kerma fission (mt18 or mt19-20-21-38)
Cross Section

44-Ru-97
-0.303 To 0.041 %









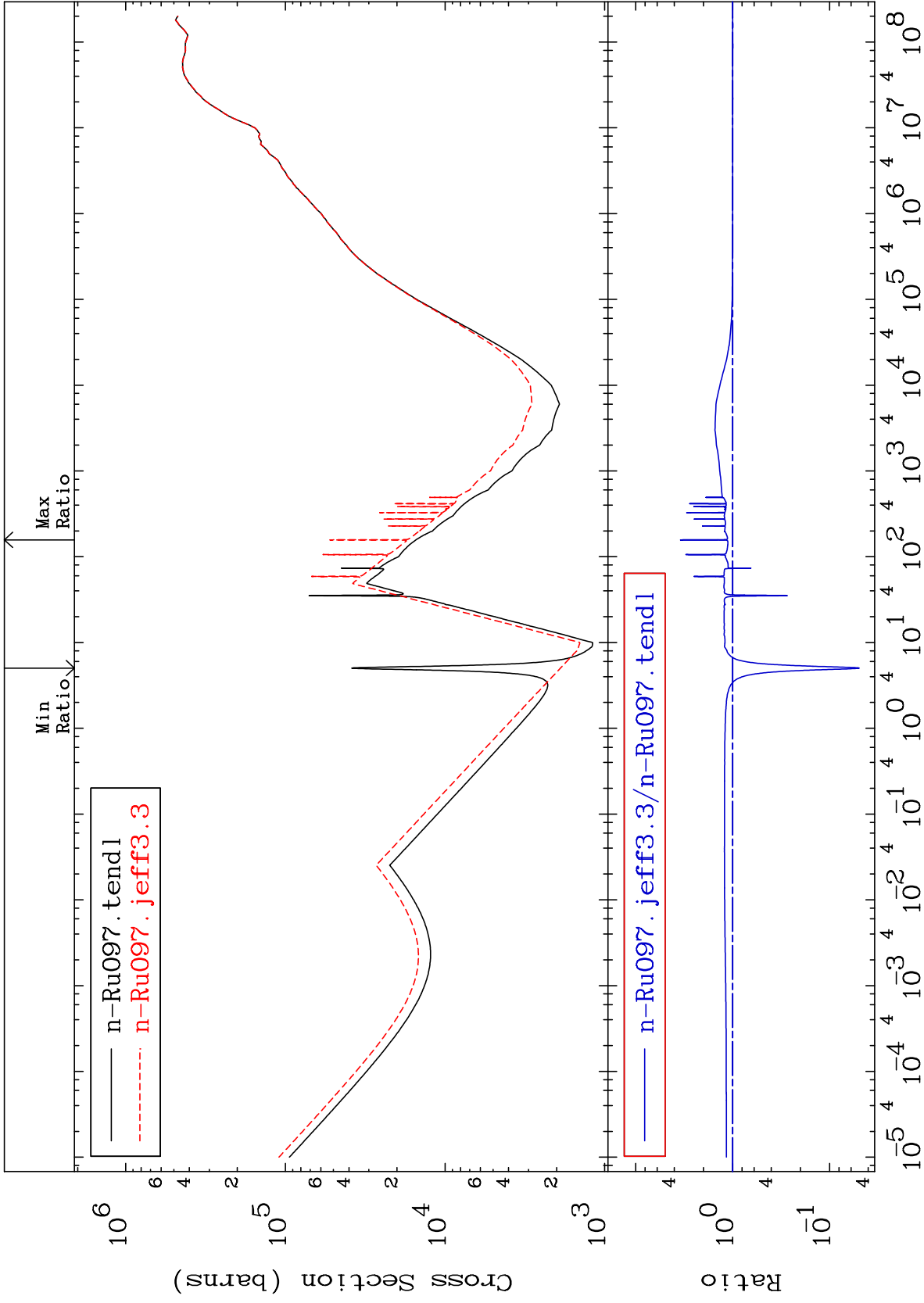
MAT 4428

Dpa total (eV-barns)

44-Ru-97

-95.08 To 246.3 %

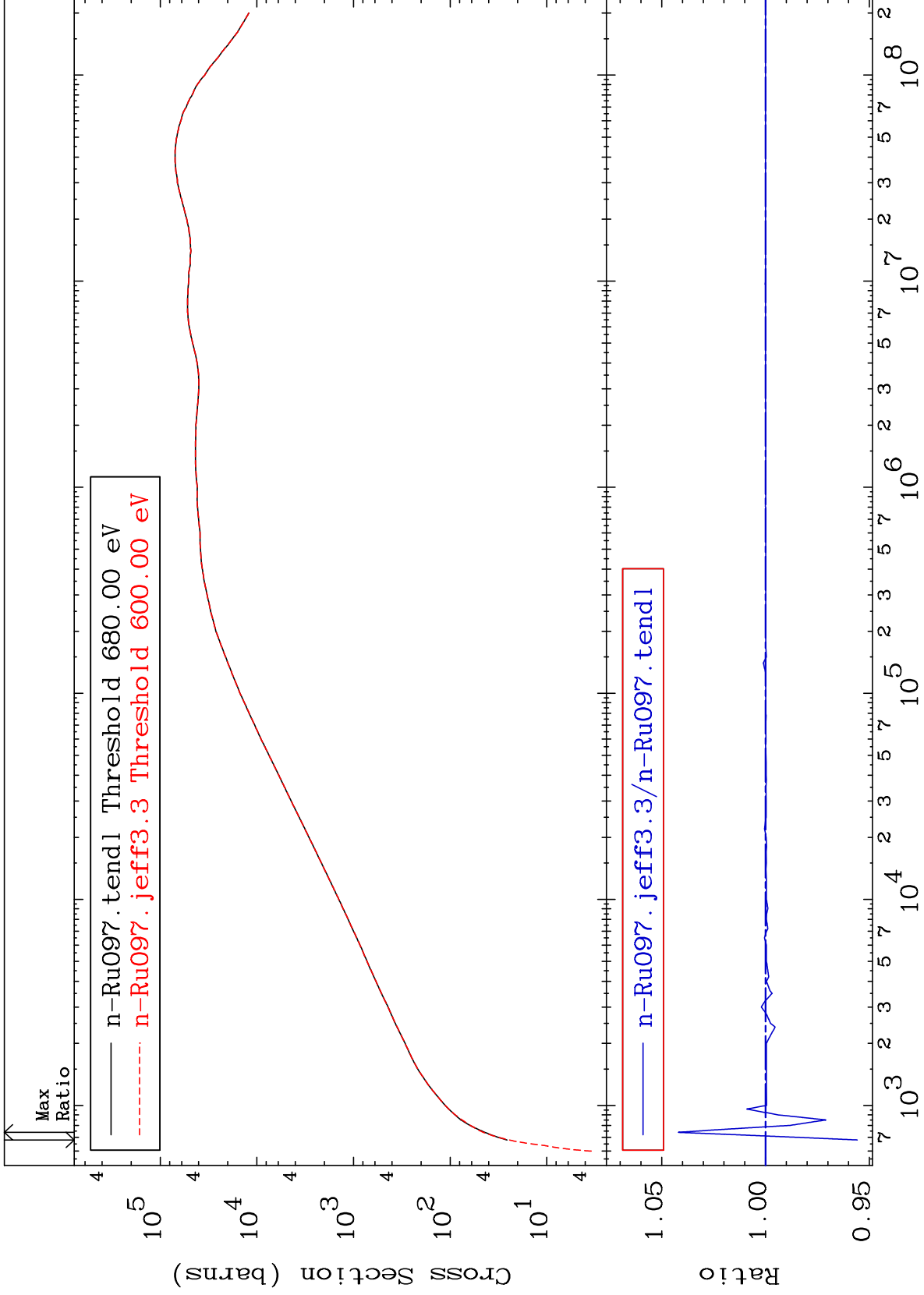
Cross Section

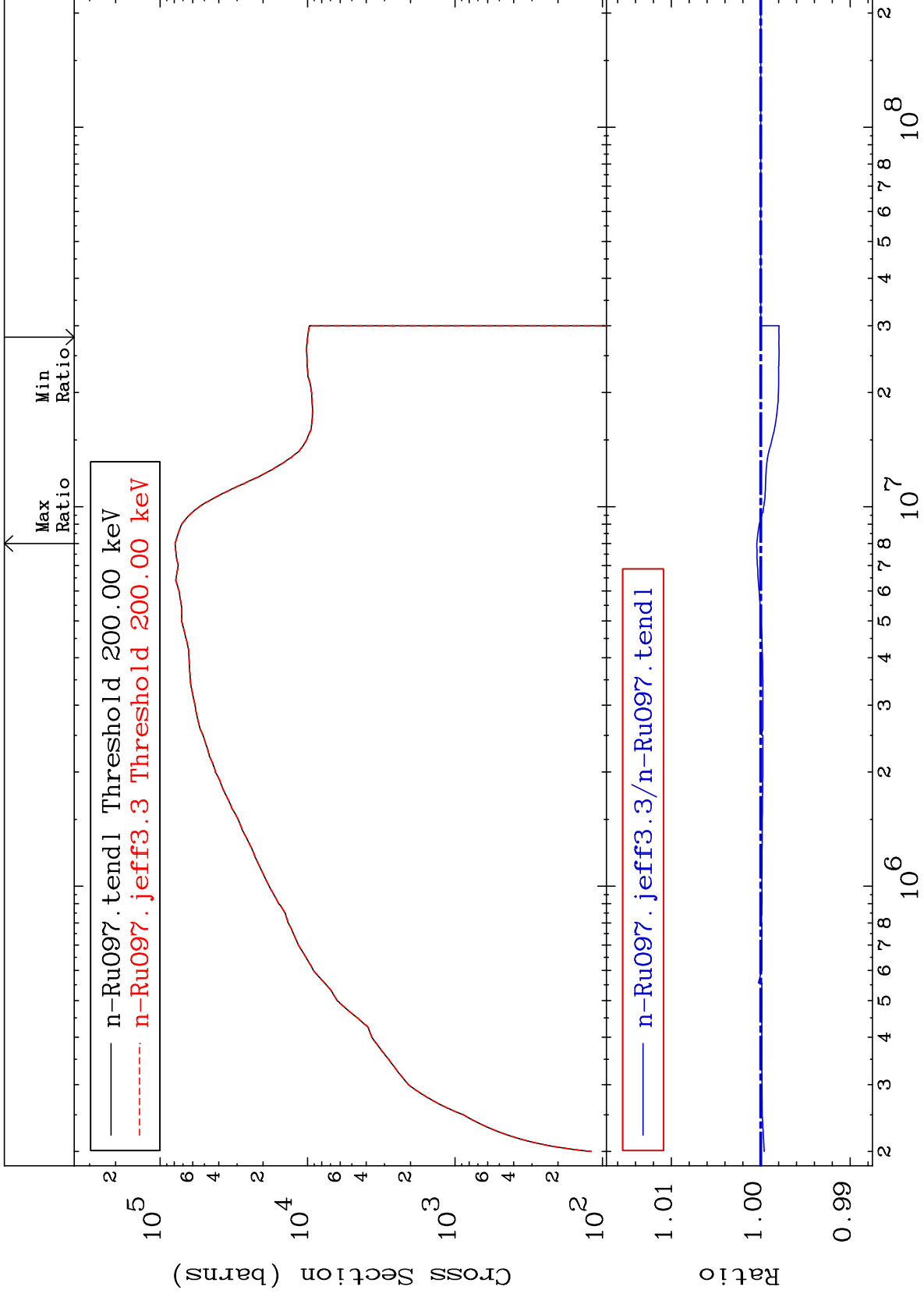


76

Incident Energy (eV)

44-Ru-97

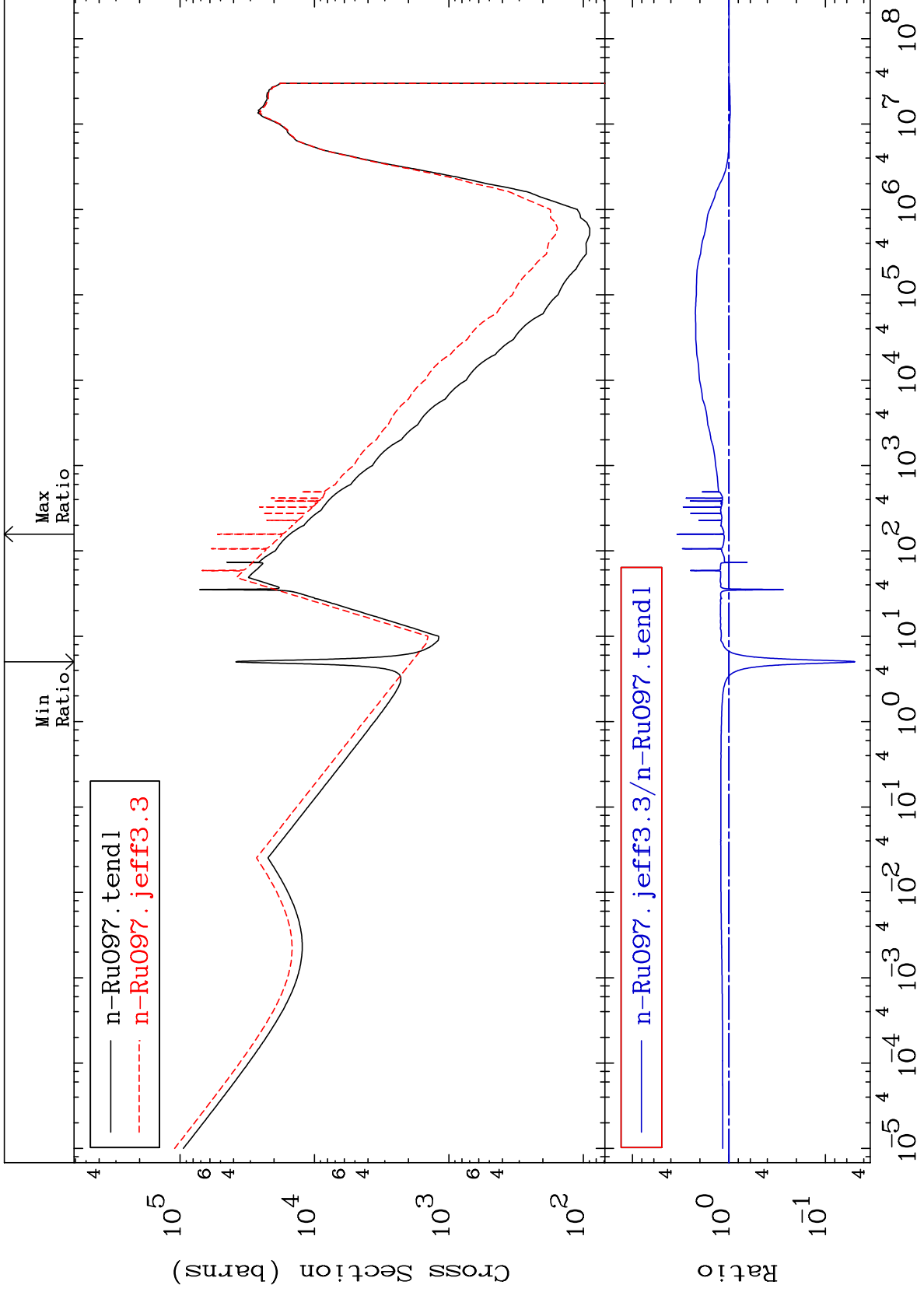




MAT 4428

Dpa disappearance (mt102 -120)
Cross Section

44-Ru-97
-95.08 To 246.3 %



79

Incident Energy (eV)

44-Ru-97

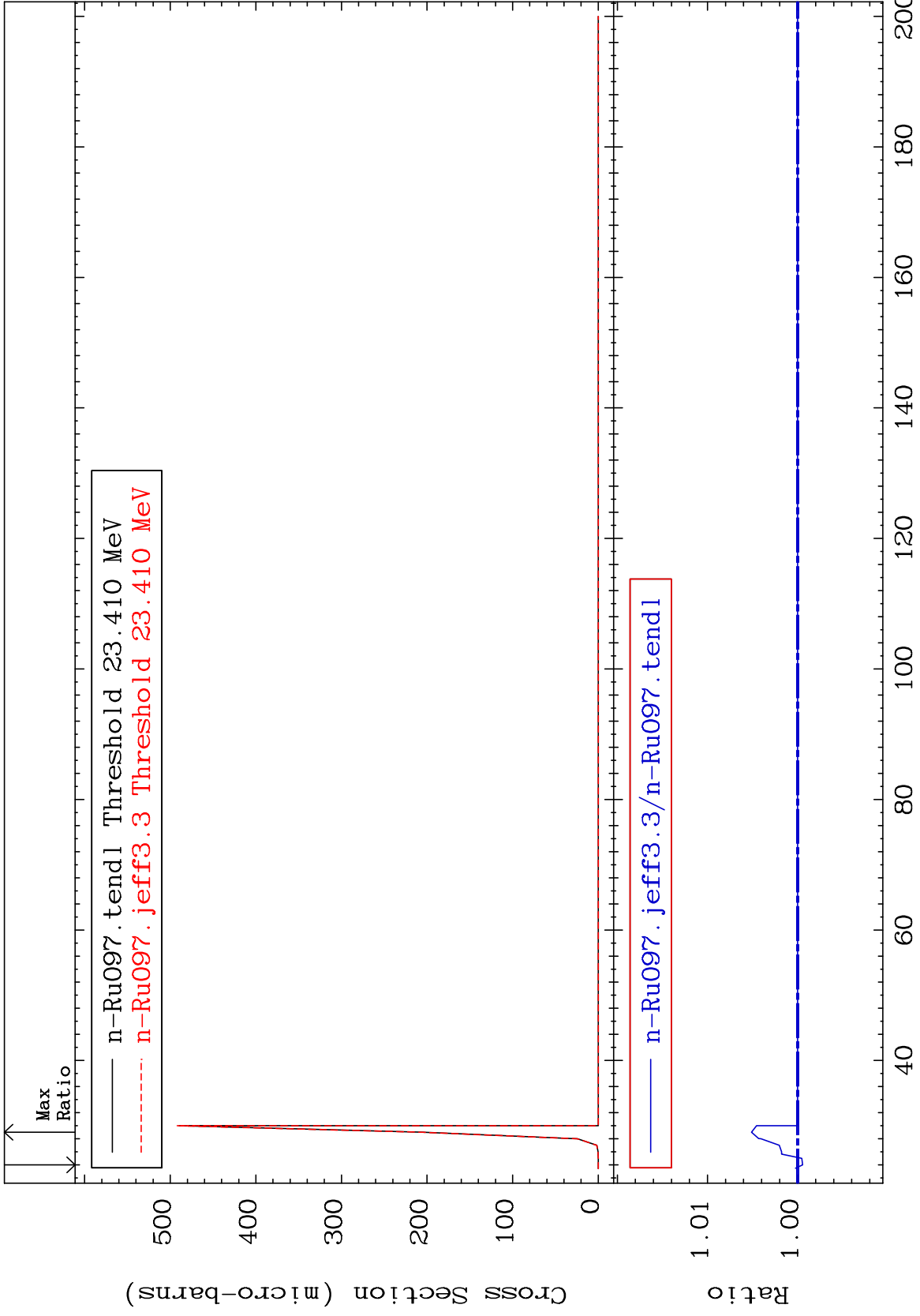
MAT 4428

(n,2n) d:43-Tc-94g

44-Ru-97

Radionuclide Production Cross Section

-0.056 To 0.512 %

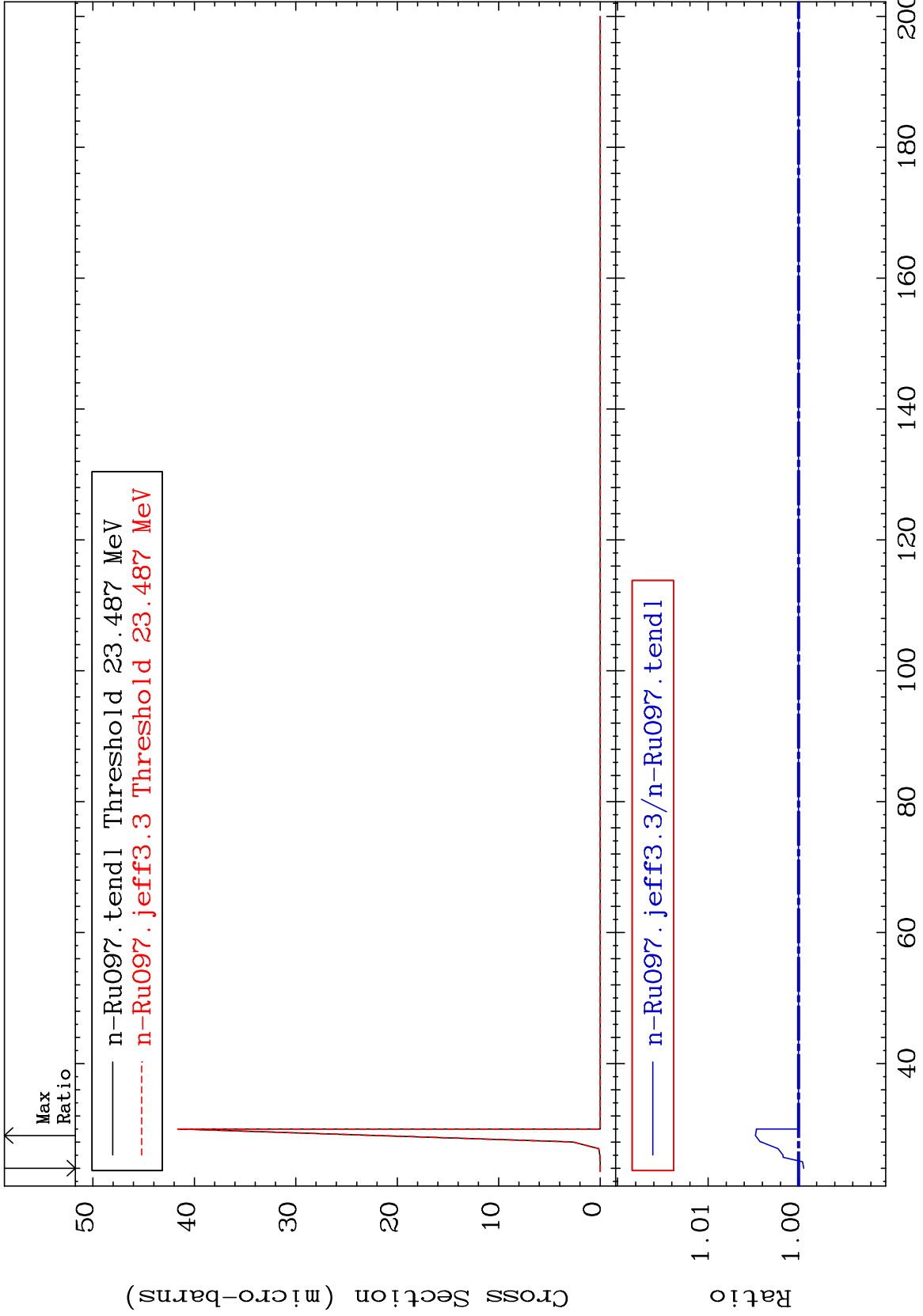


80

Incident Energy (MeV)

44-Ru-97

Radionuclide Production Cross Section -0.058 To 0.477 %



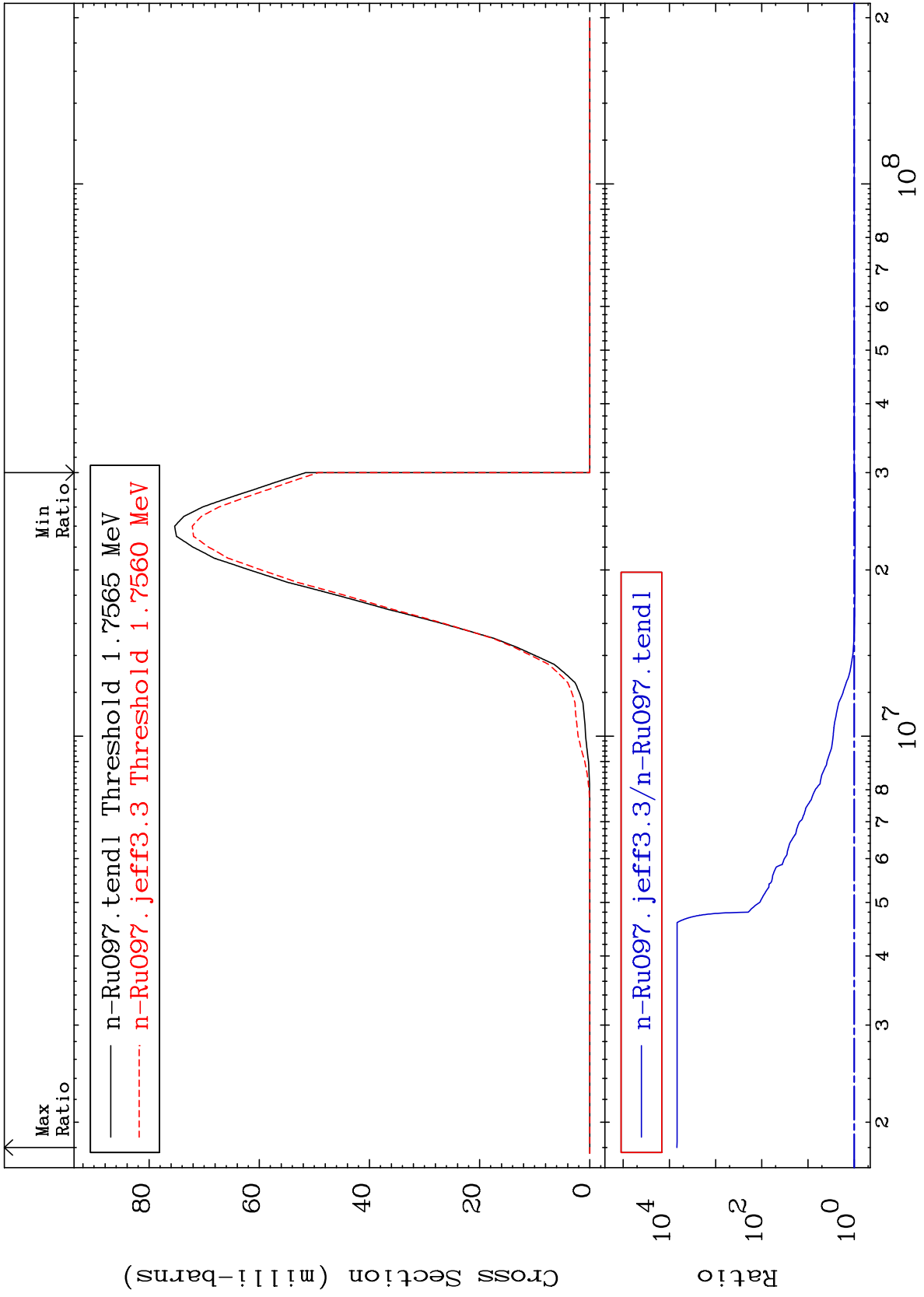
MAT 4428

(n, n') α :42-Mo-93g

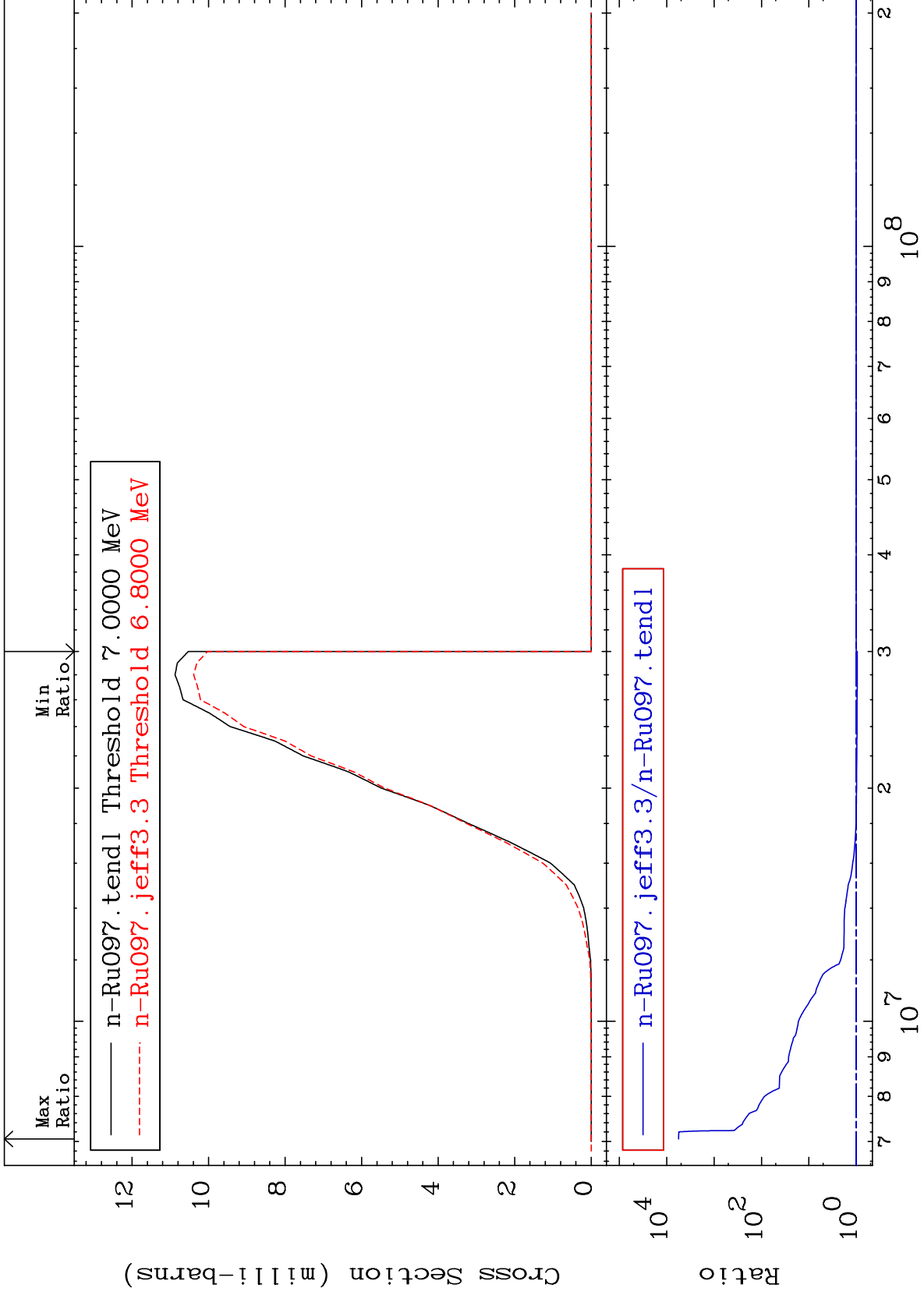
44-Ru-97

Radionuclide Production Cross Section

-4.364 To 9999. %



Radionuclide Production Cross Section -4.774 To 9999. %

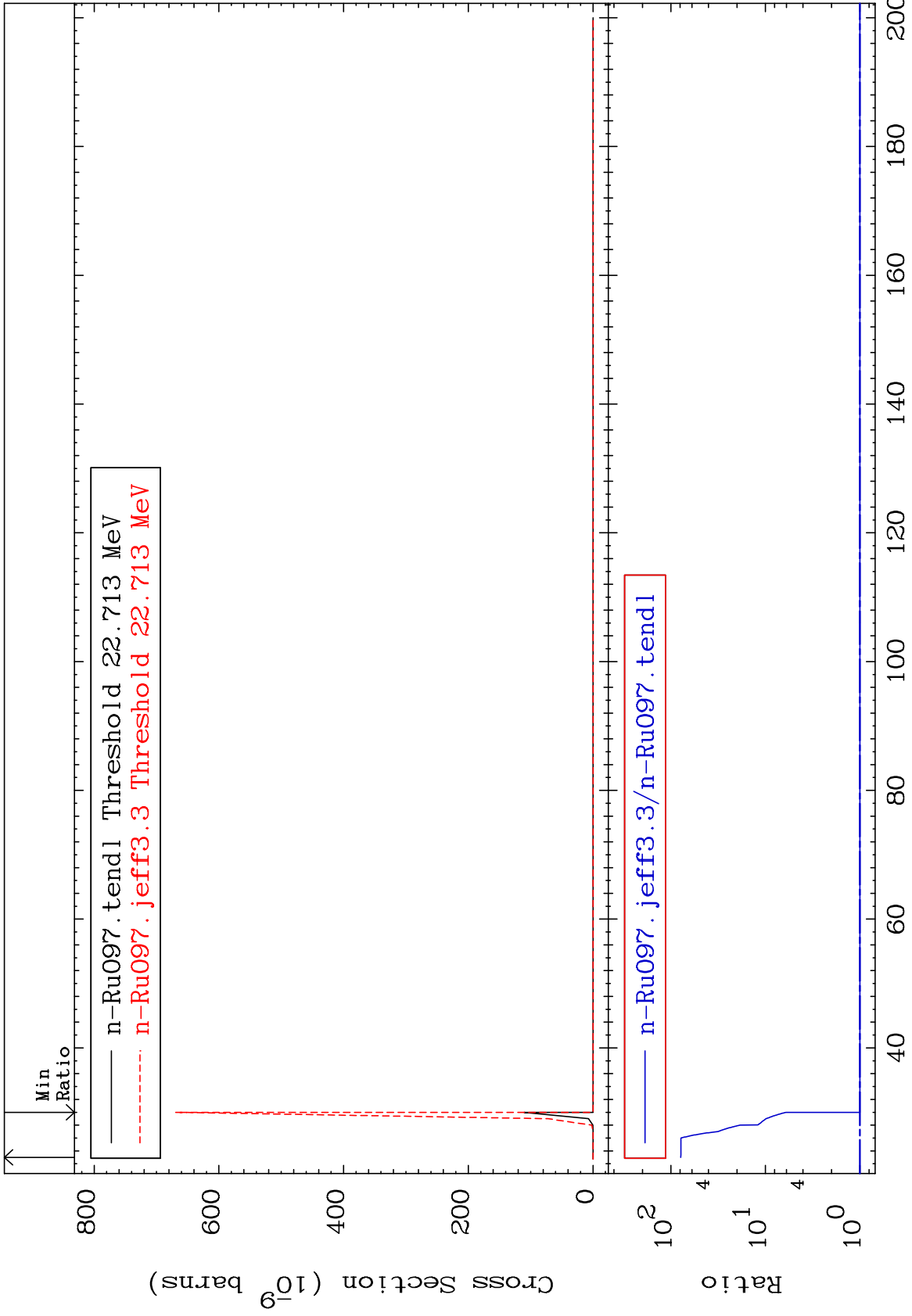


MAT 4428

(n,3n) α :42-Mo-91g

44-Ru-97

Radionuclide Production Cross Section 0.000 To 7770. %

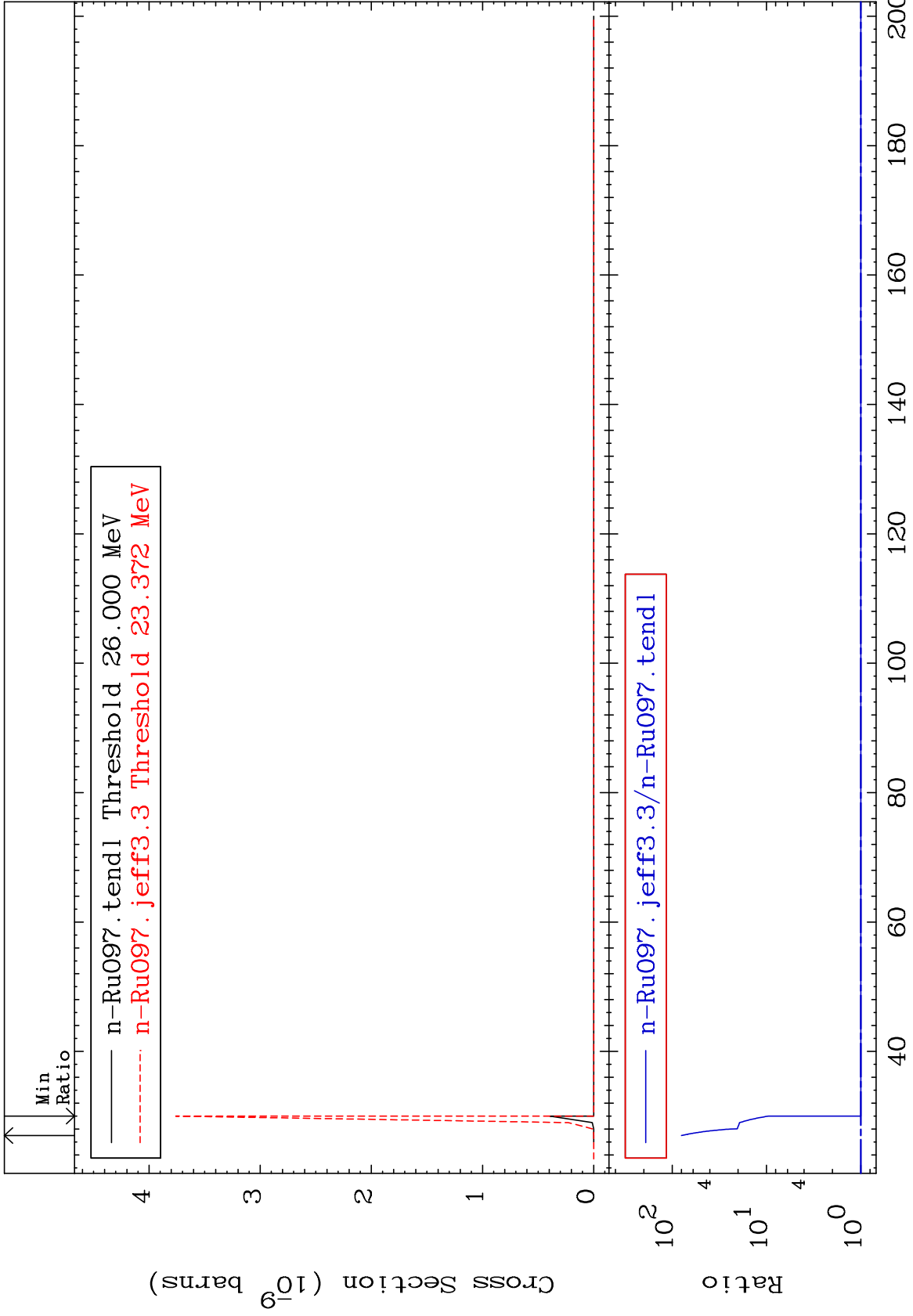


MAT 4428

(n,3n) α : 42-Mo-91m1

44-Ru-97

Radionuclide Production Cross Section 0.000 To 7874. %



85

Incident Energy (MeV)

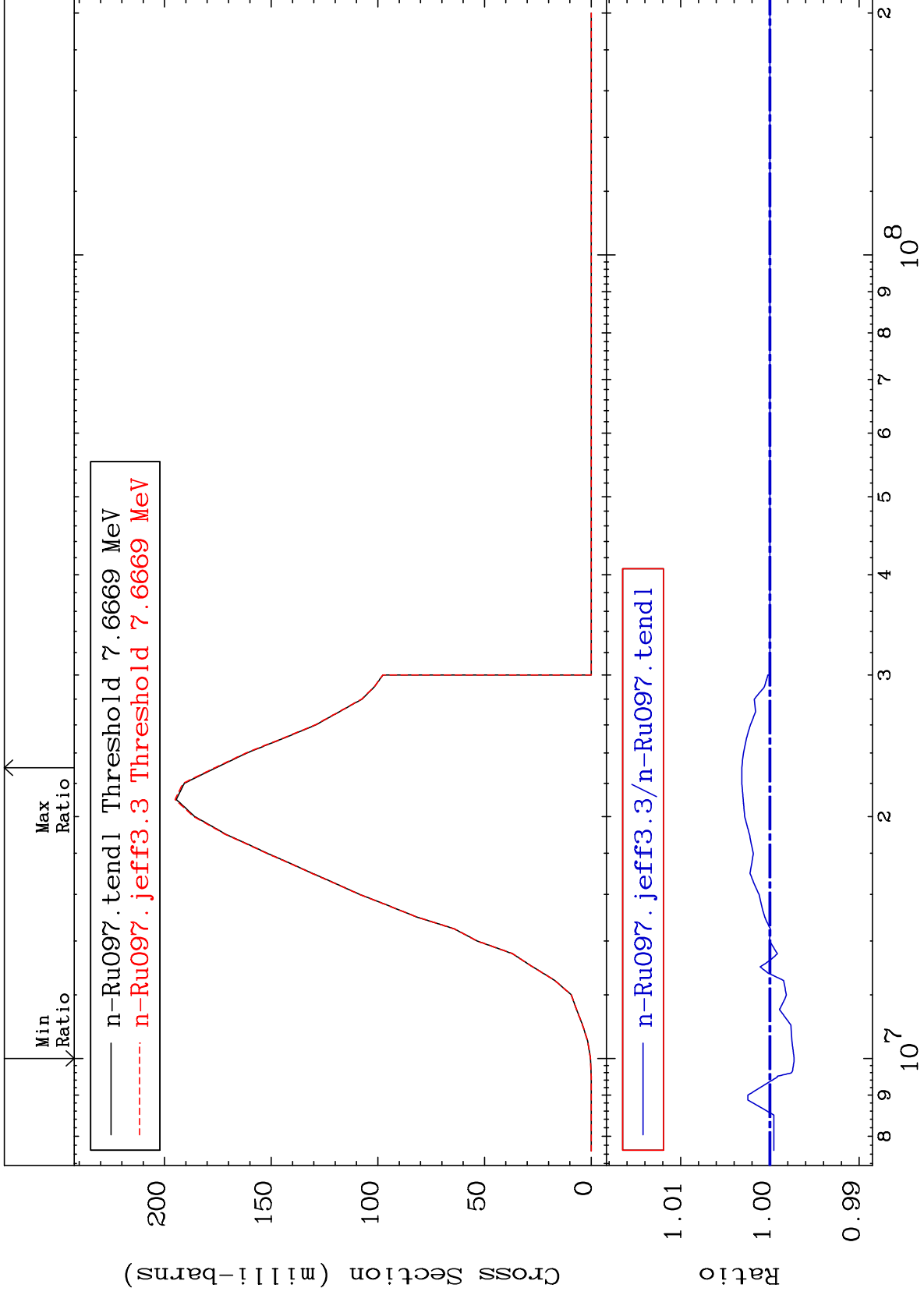
44-Ru-97

MAT 4428

(n, n') p:43-Tc-96g

44-Ru-97

Radionuclide Production Cross Section -0.271 To 0.315 %



86

Incident Energy (eV)

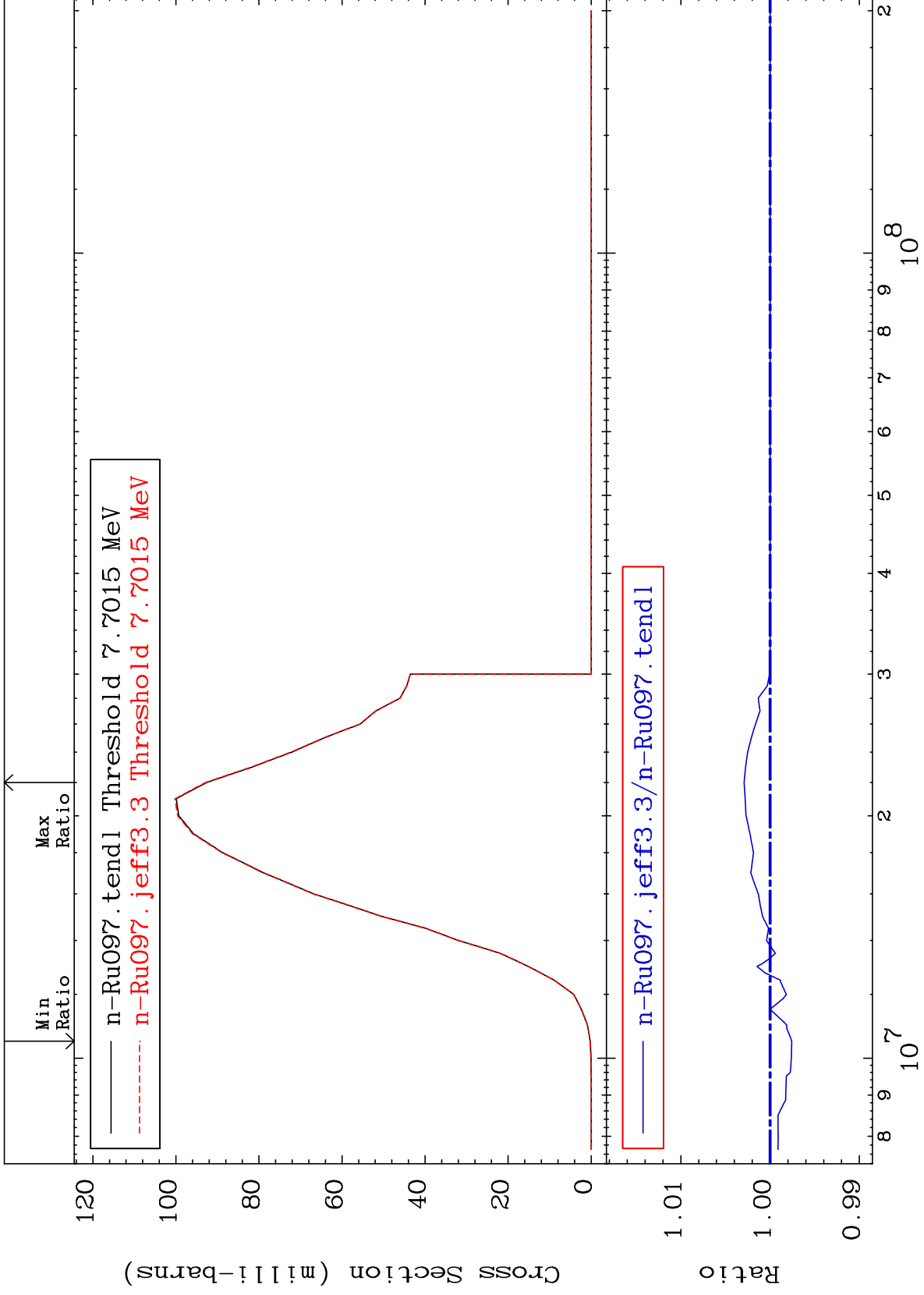
44-Ru-97

MAT 4428

(n, n') p: 43-Tc-96m1

44-Ru-97

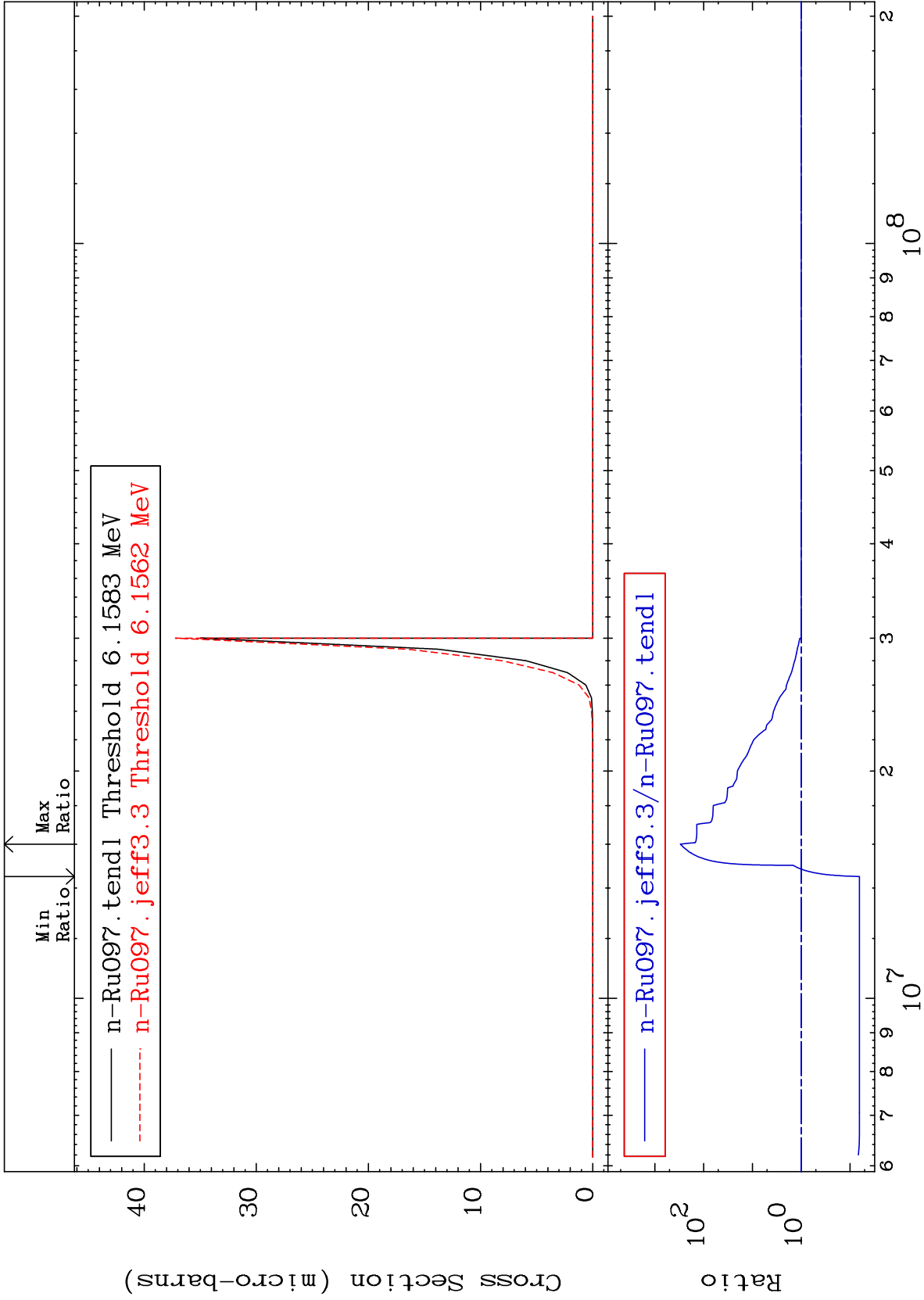
Radionuclide Production Cross Section -0.243 To 0.291 %



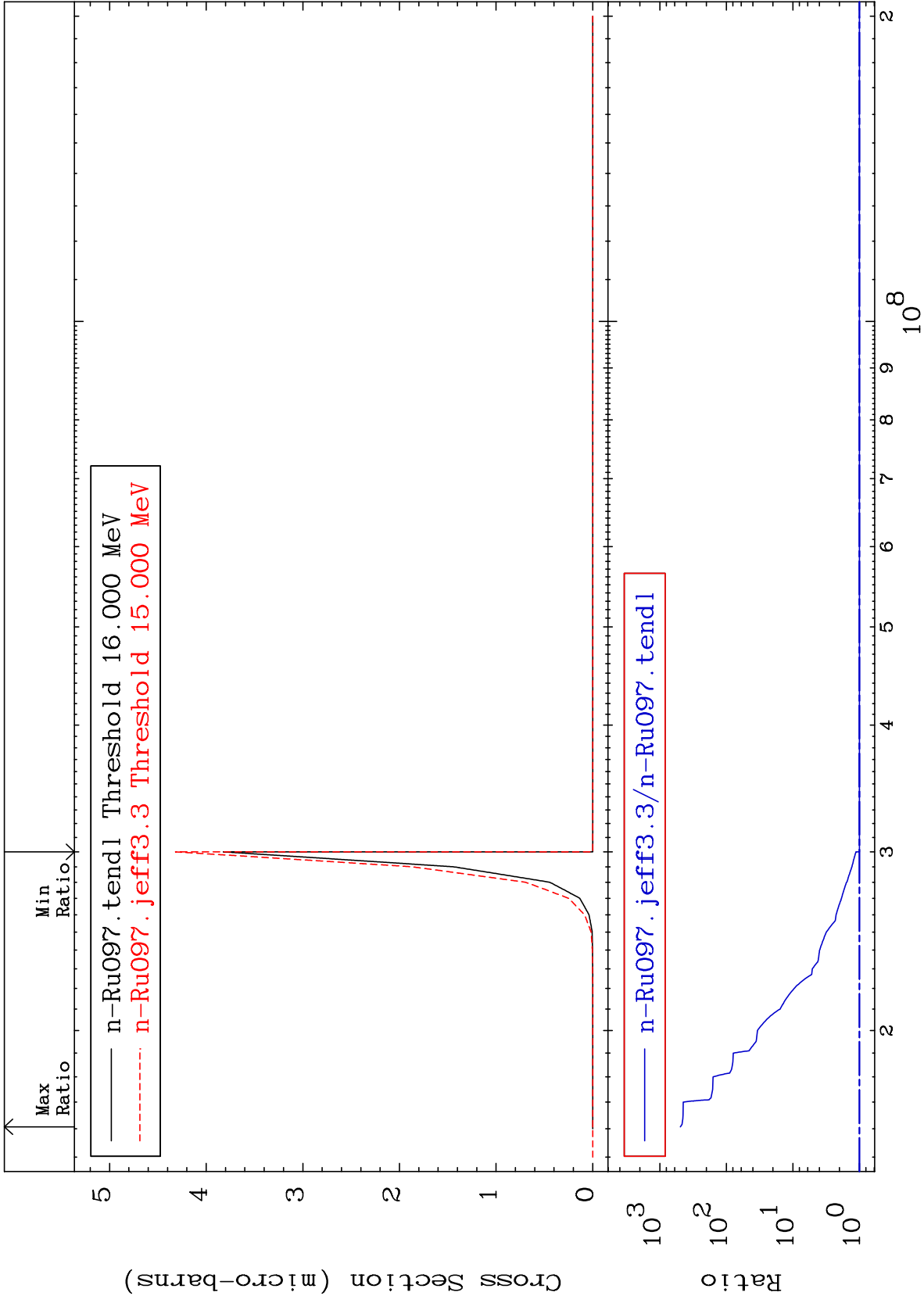
87

Incident Energy (eV)

44-Ru-97



Radionuclide Production Cross Section 0.000 To 9999. %

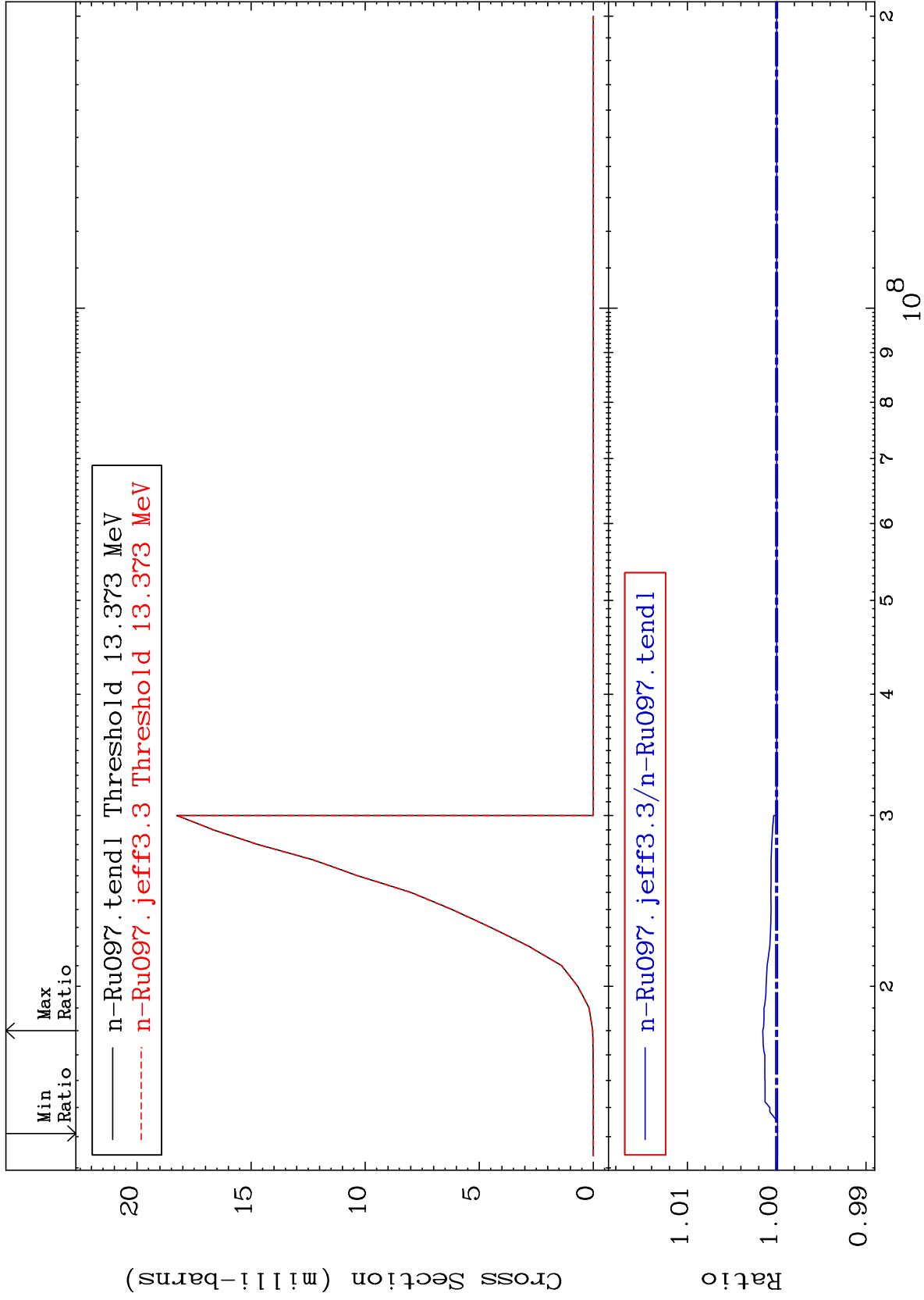


MAT 4428

(n, n') d:43-Tc-95g

44-Ru-97

Radionuclide Production Cross Section -0.010 To 0.155 %

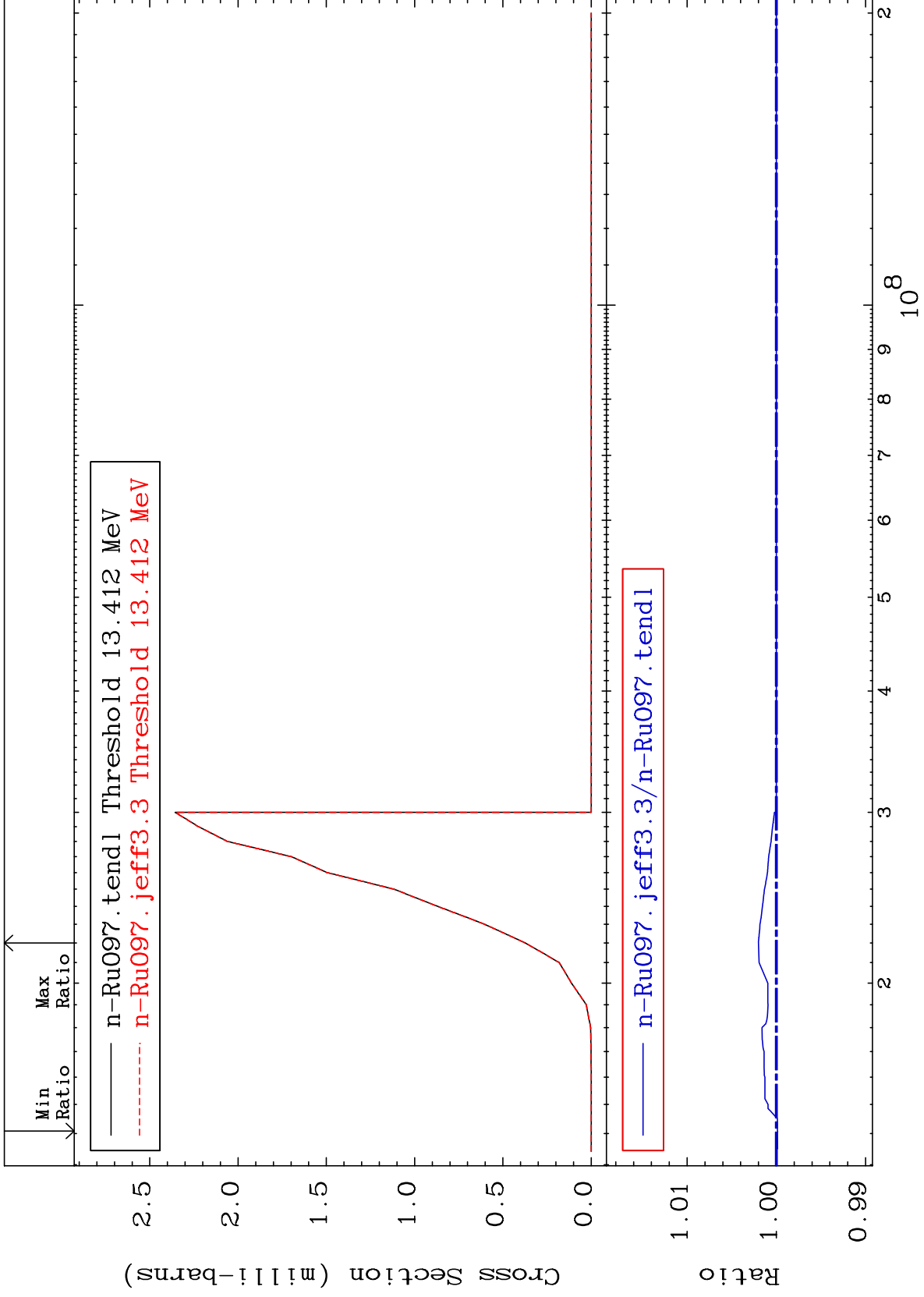


90

Incident Energy (eV)

44-Ru-97

Radionuclide Production Cross Section -0.013 To 0.202 %



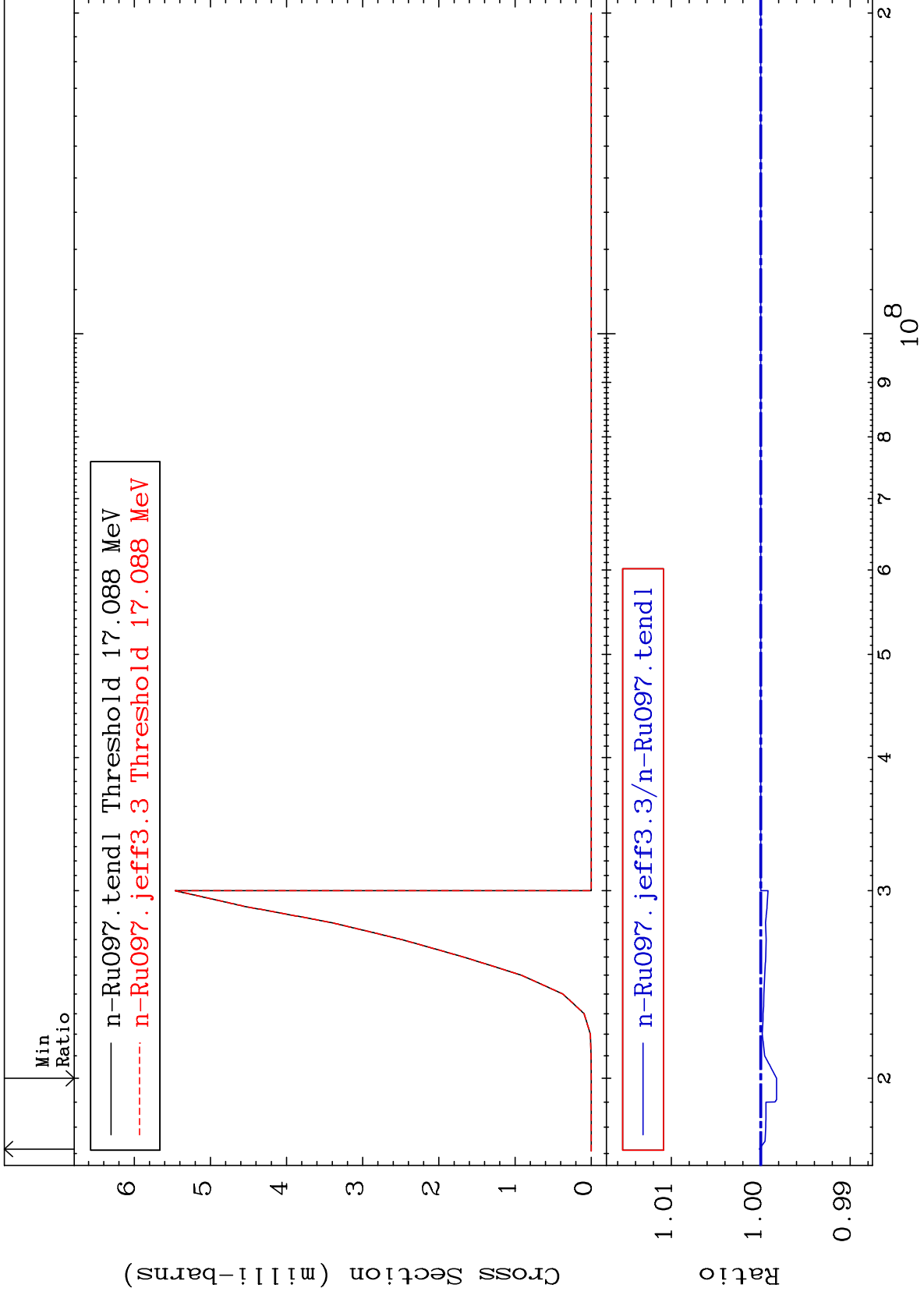
MAT 4428

(n, n') t:43-Tc-94g

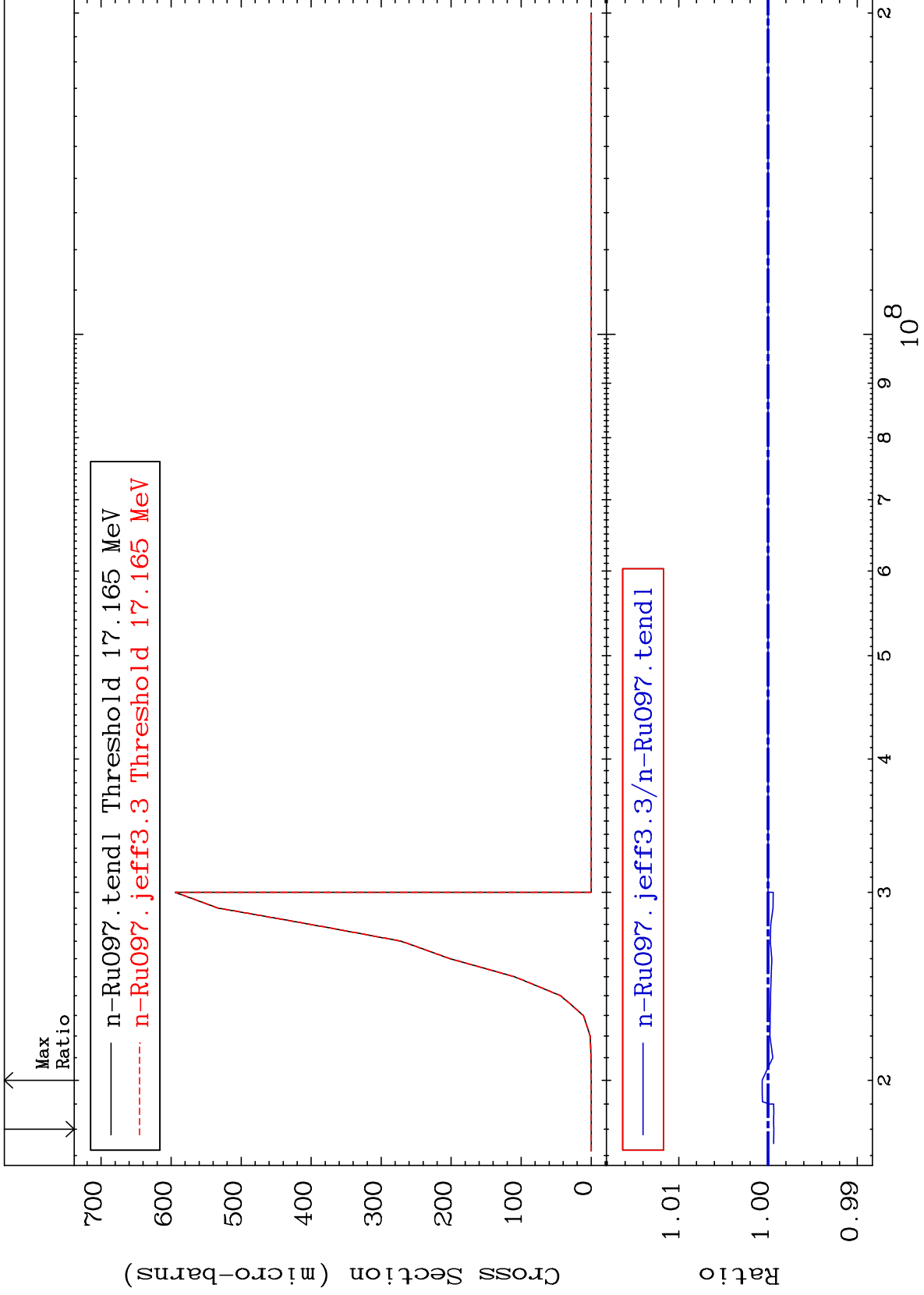
44-Ru-97

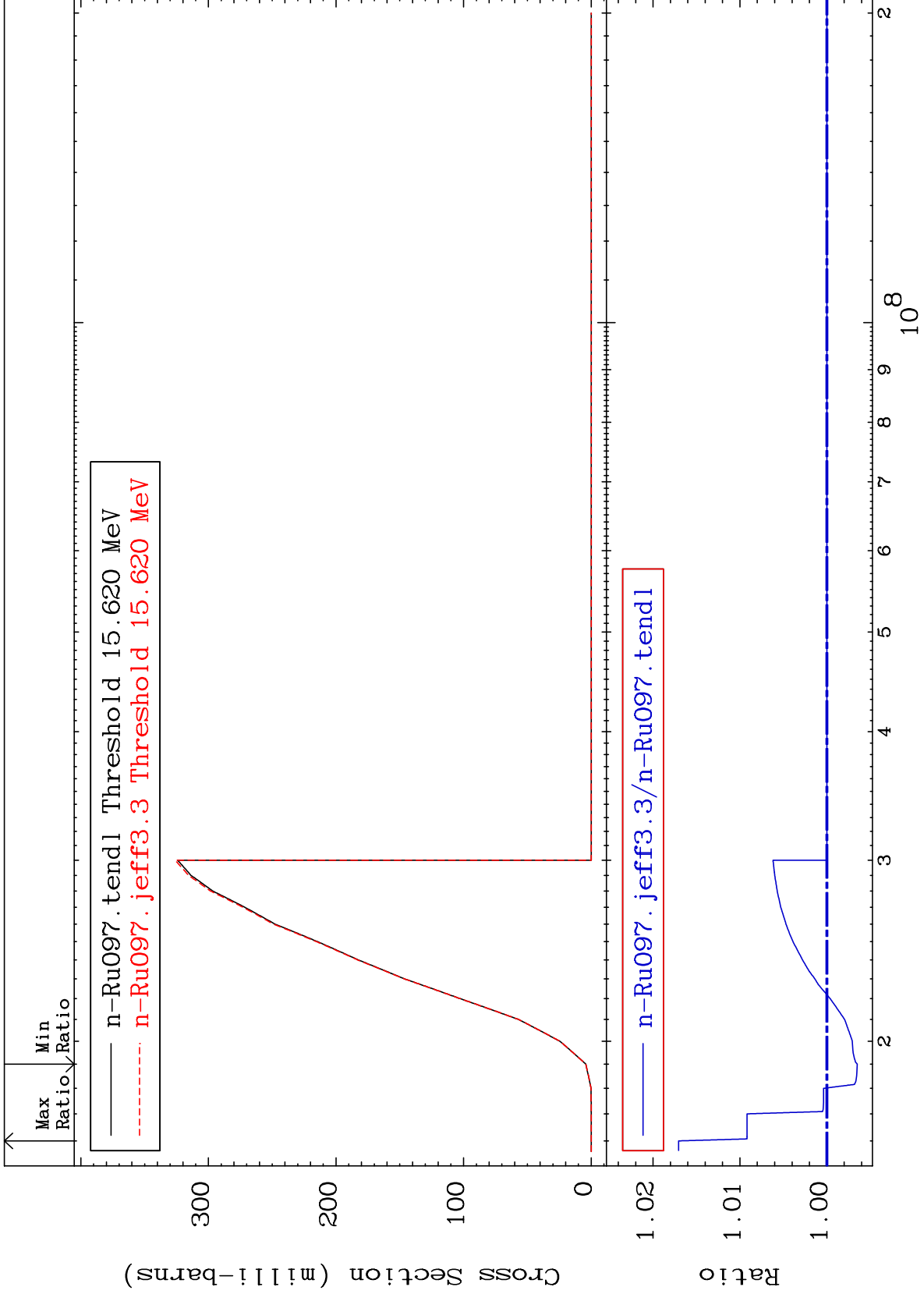
Radionuclide Production Cross Section

-0.177 To 0.016 %

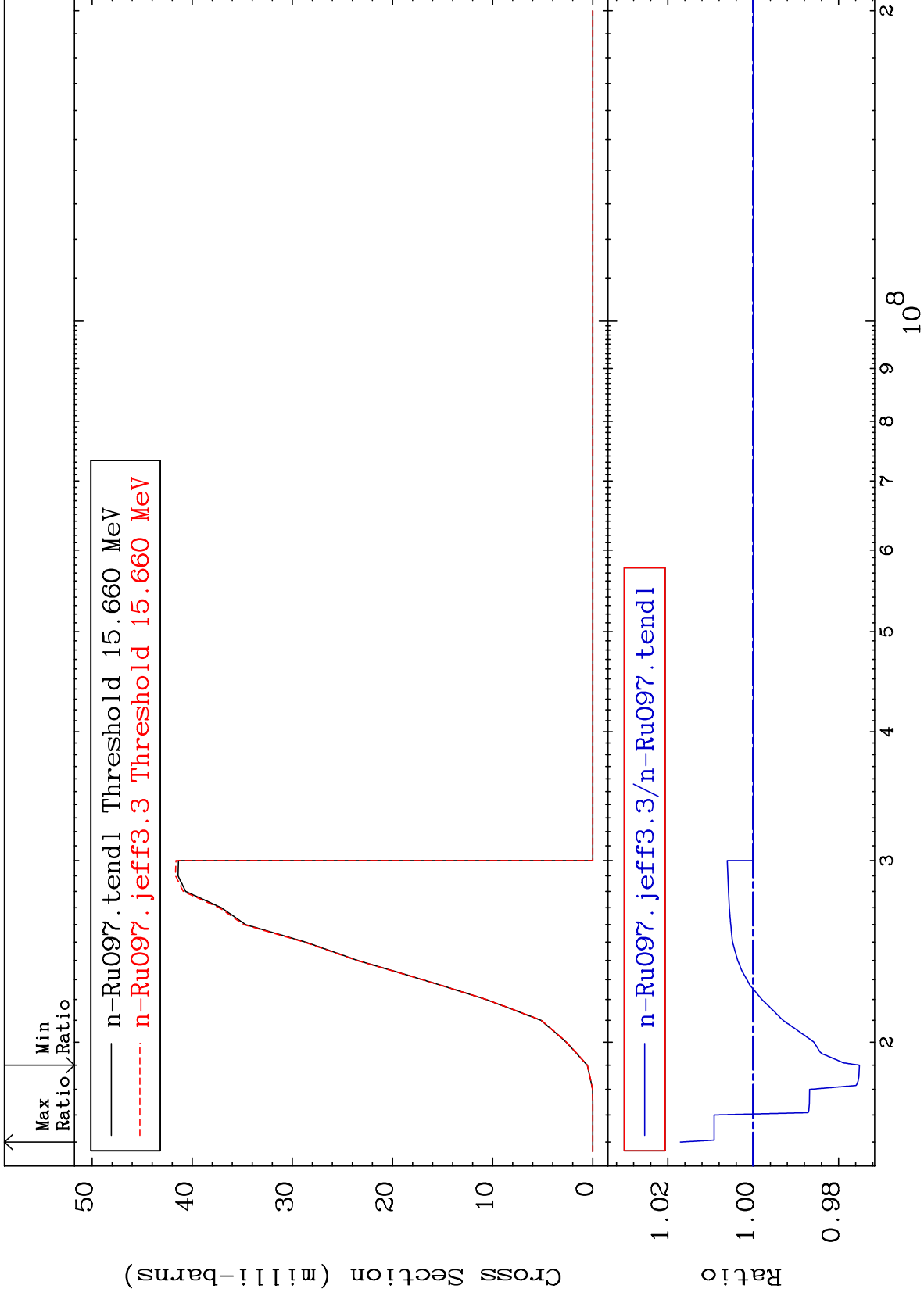


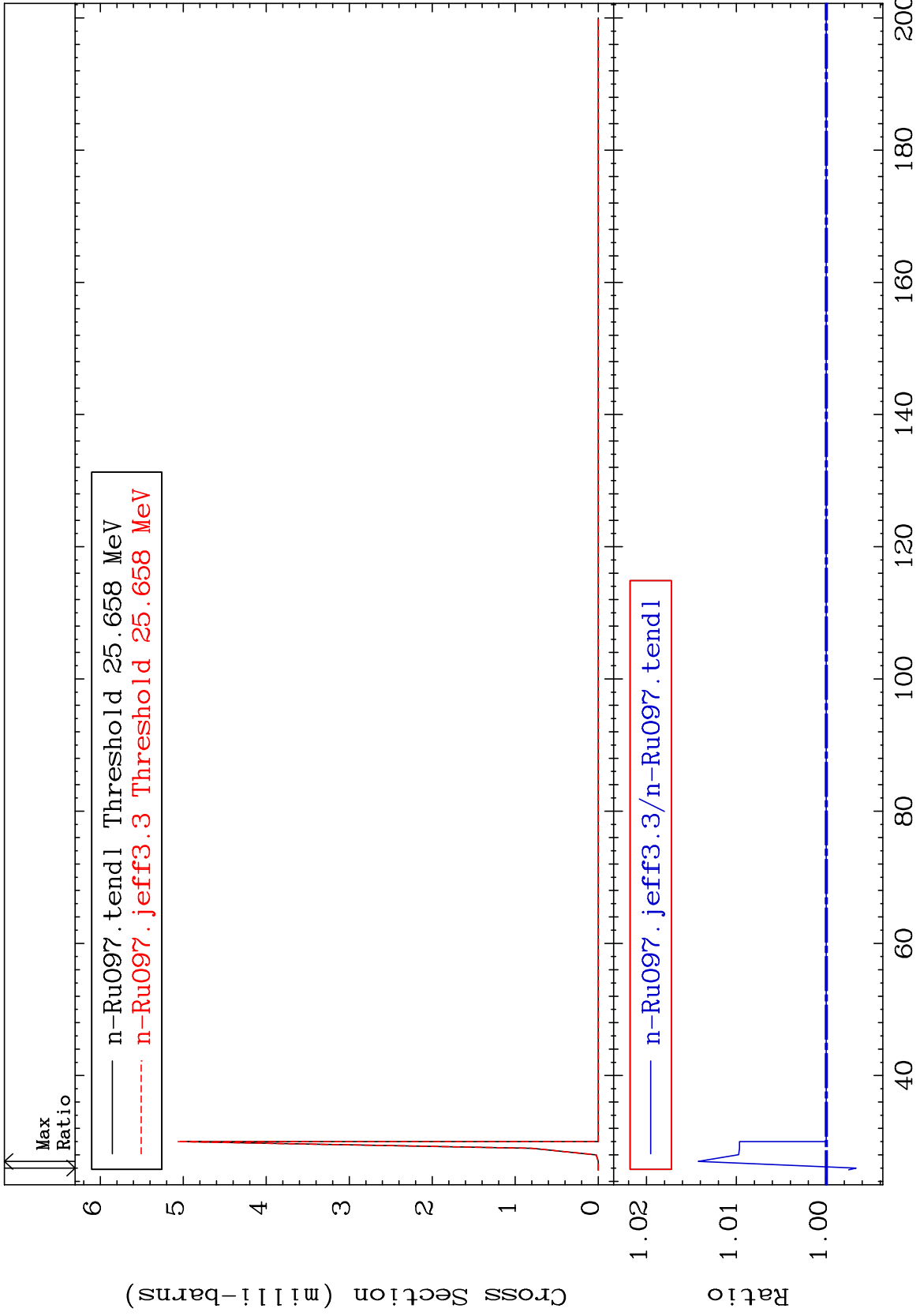
Radionuclide Production Cross Section -0.064 To 0.066 %



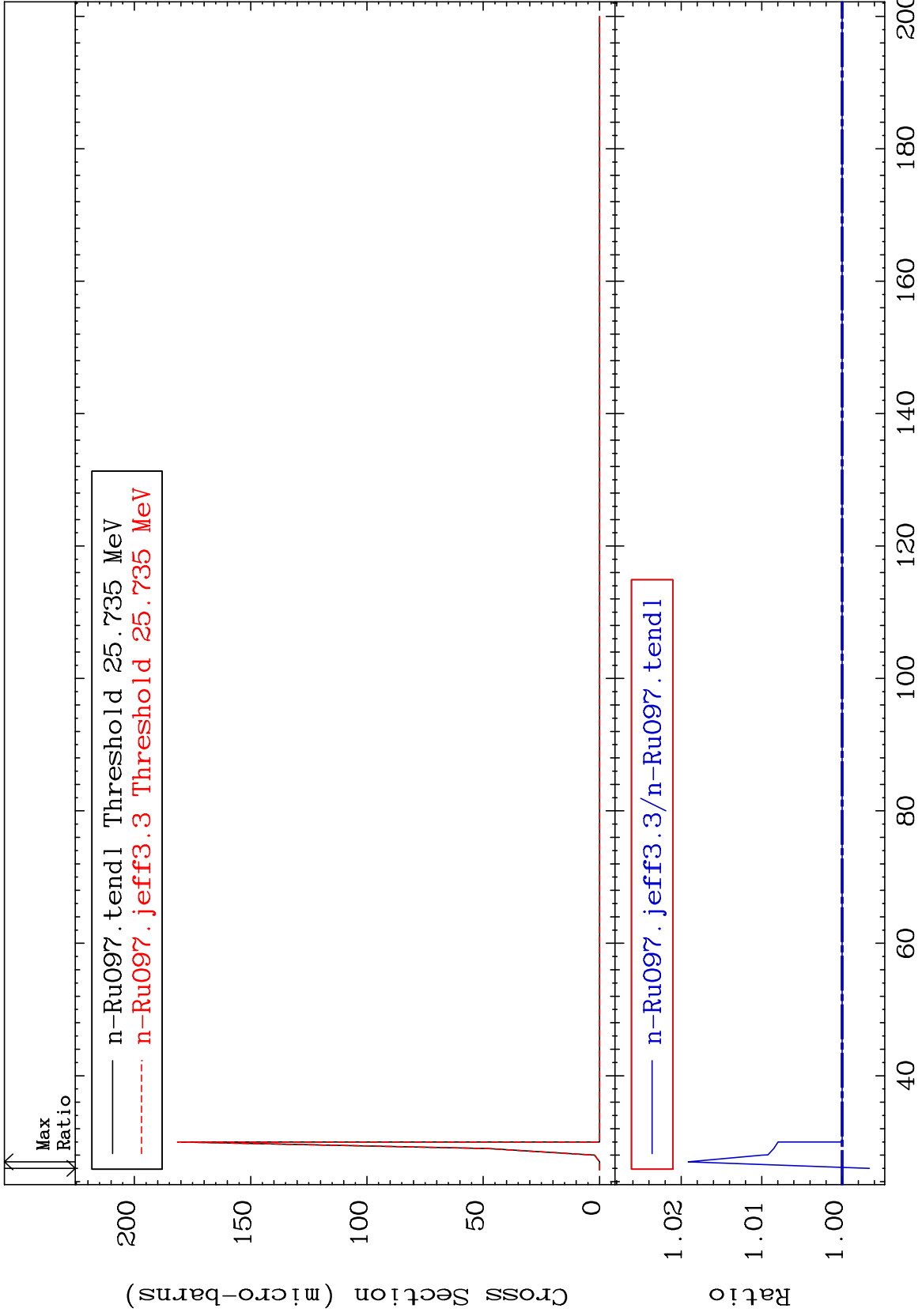


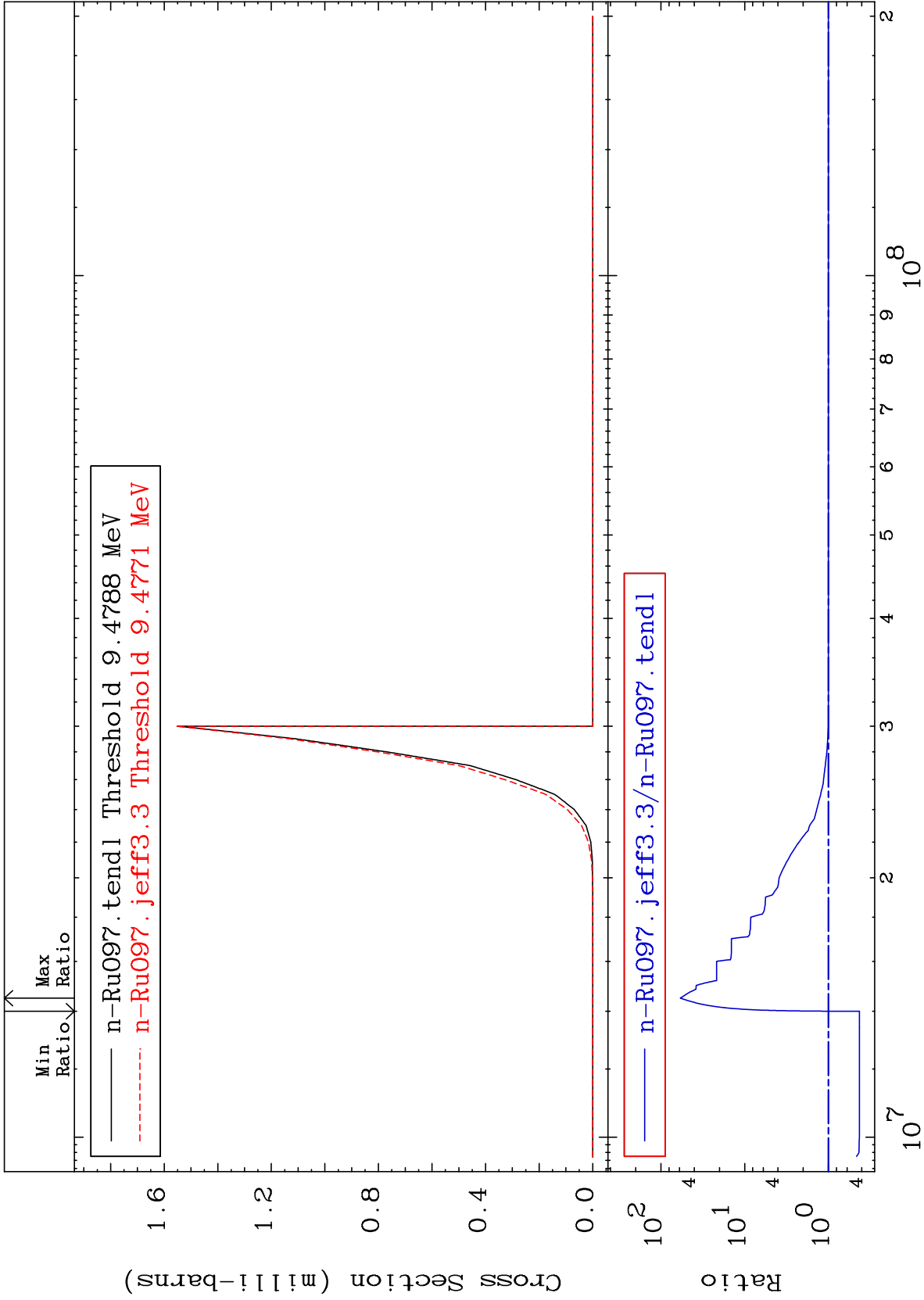
Radionuclide Production Cross Section -2.486 To 1.704 %





Radionuclide Production Cross Section -0.337 To 1.913 %



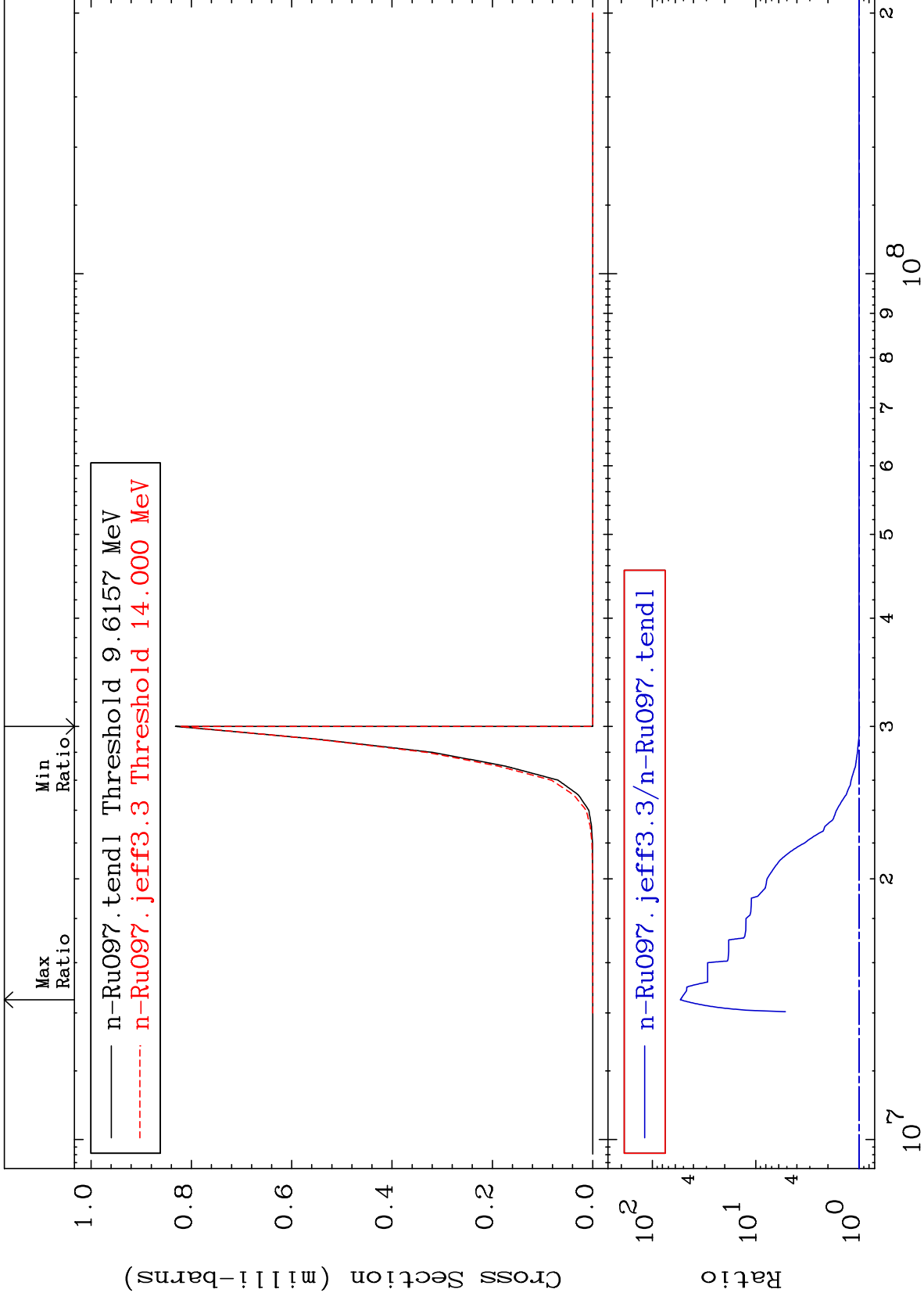


MAT 4428

(n, n') p α : 41-Nb-92m1

44-Ru-97

Radionuclide Production Cross Section -0.992 To 5268. %



99

Incident Energy (eV)

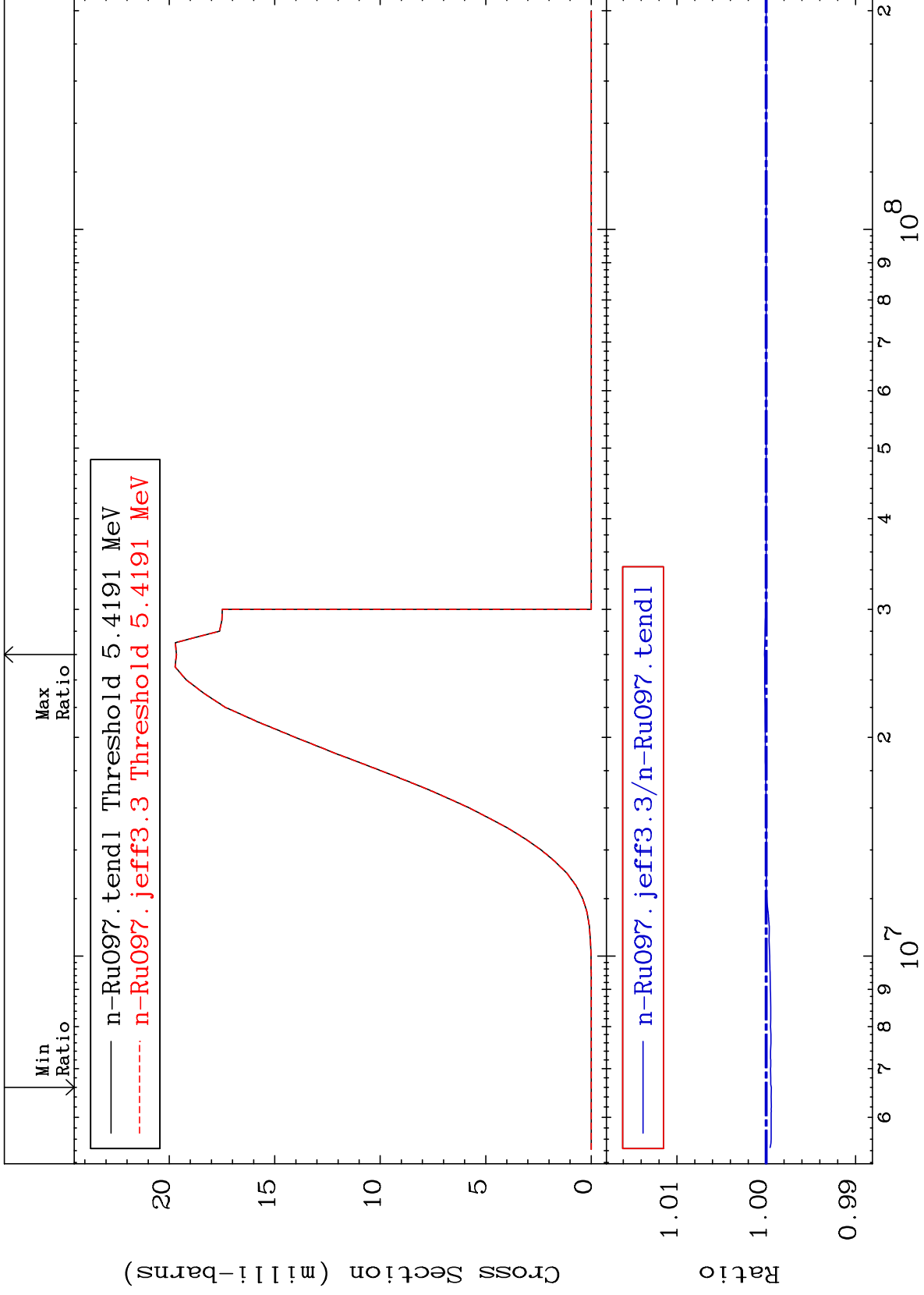
44-Ru-97

MAT 4428

(n, d) : 43-Tc-96g

44-Ru-97

Radionuclide Production Cross Section -0.057 To 0.018 %



100

Incident Energy (eV)

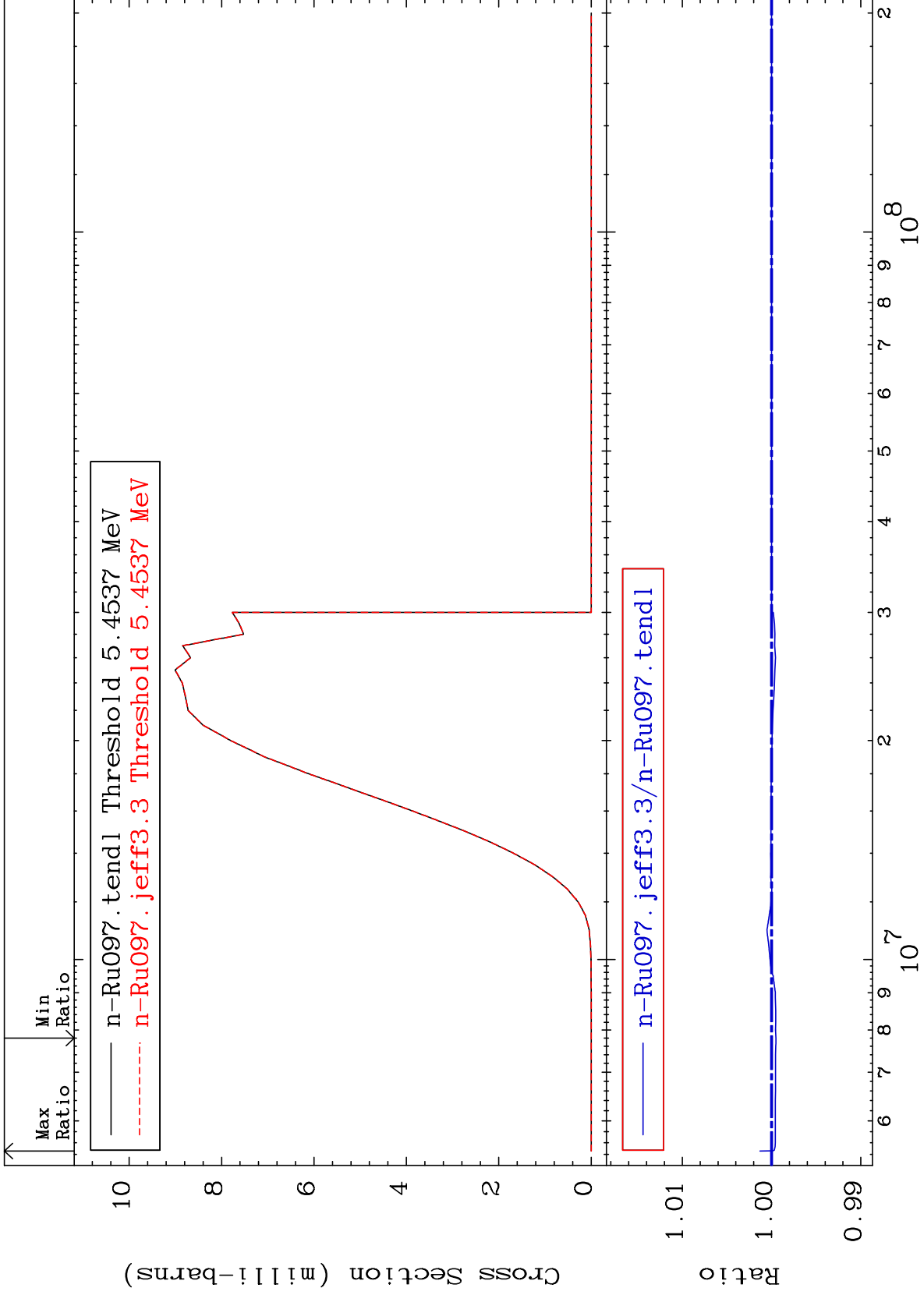
44-Ru-97

MAT 4428

(n, d) : 43-Tc-96m1

44-Ru-97

Radionuclide Production Cross Section -0.048 To 0.130 %



101

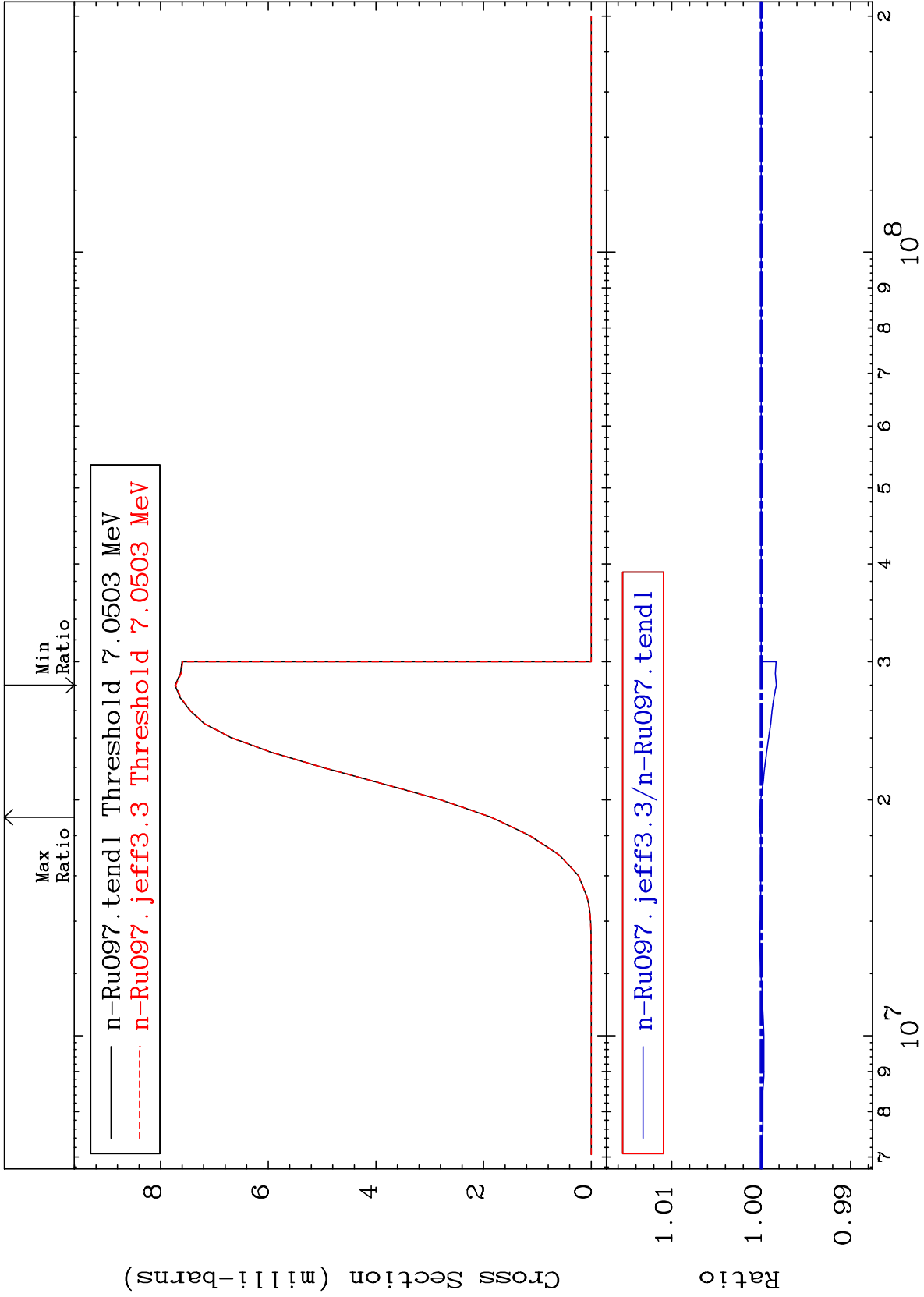
Incident Energy (eV)

44-Ru-97

MAT 4428

44-Ru-97

(n, t) : 43-Tc-95g
Radionuclide Production Cross Section -0.170 To 0.017 %



102

Incident Energy (eV)

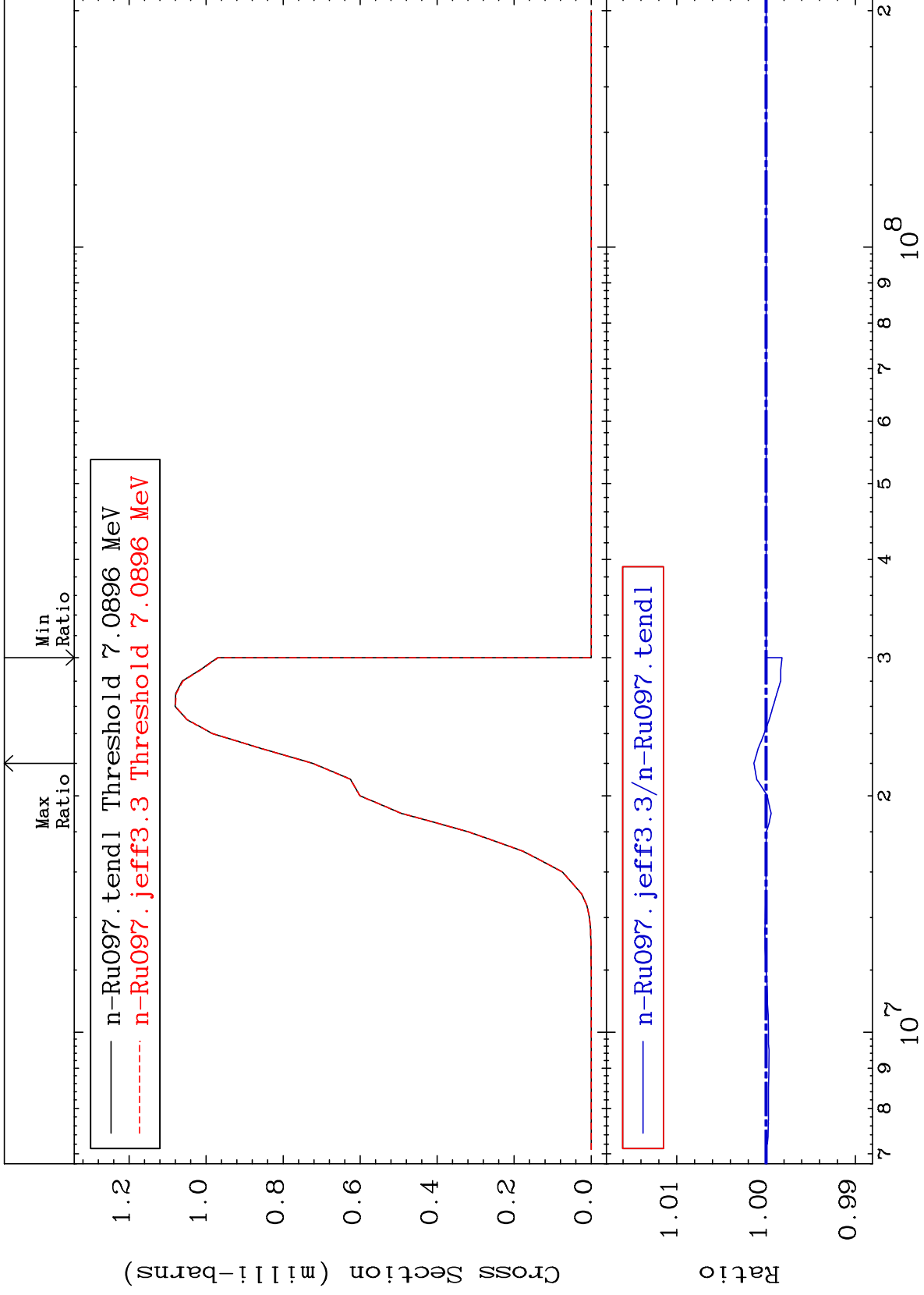
44-Ru-97

MAT 4428

(n, t) : 43-Tc-95m1

44-Ru-97

Radionuclide Production Cross Section -0.178 To 0.136 %



103

Incident Energy (eV)

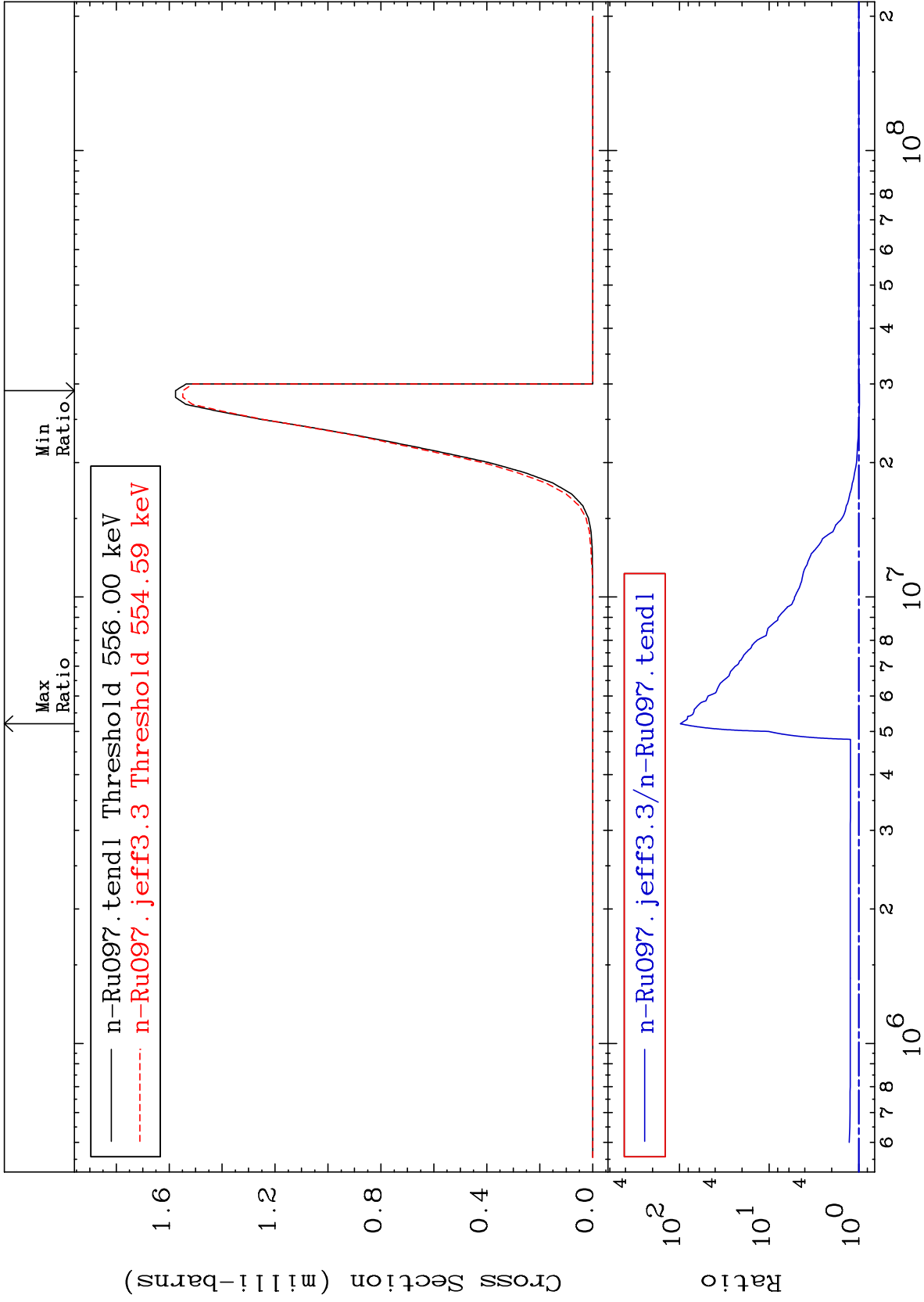
44-Ru-97

MAT 4428

44-Ru-97

(n, p) α : 41-Nb-93g

Radionuclide Production Cross Section -1.786 To 9677. %



104

Incident Energy (eV)

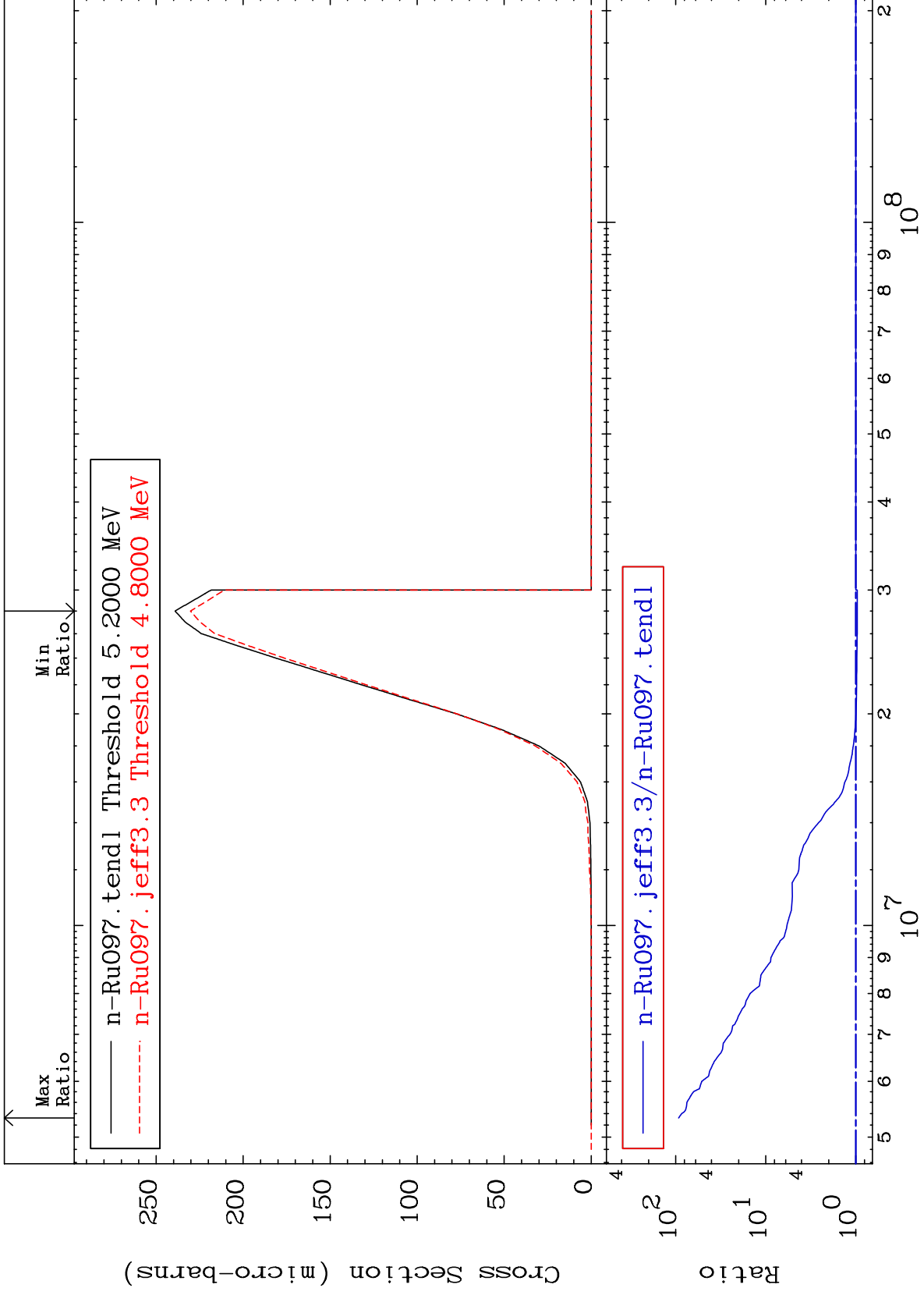
44-Ru-97

MAT 4428

(n, p) α : 41-Nb-93m1

44-Ru-97

Radionuclide Production Cross Section -3.699 To 9181. %



105

Incident Energy (eV)

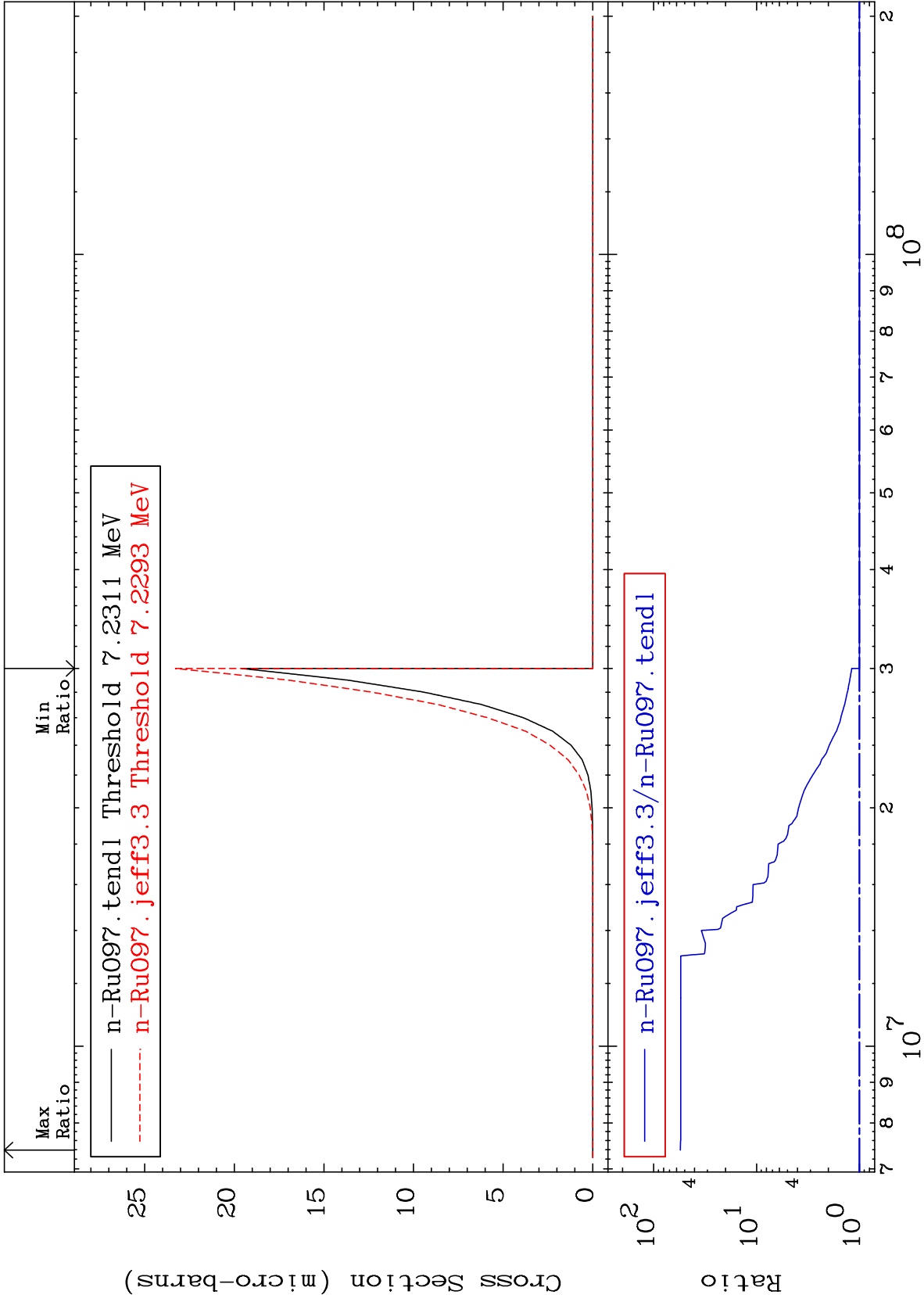
44-Ru-97

MAT 4428

44-Ru-97

(n, d) α : 41-Nb-92g

Radionuclide Production Cross Section 0.000 To 5399. %



106

Incident Energy (eV)

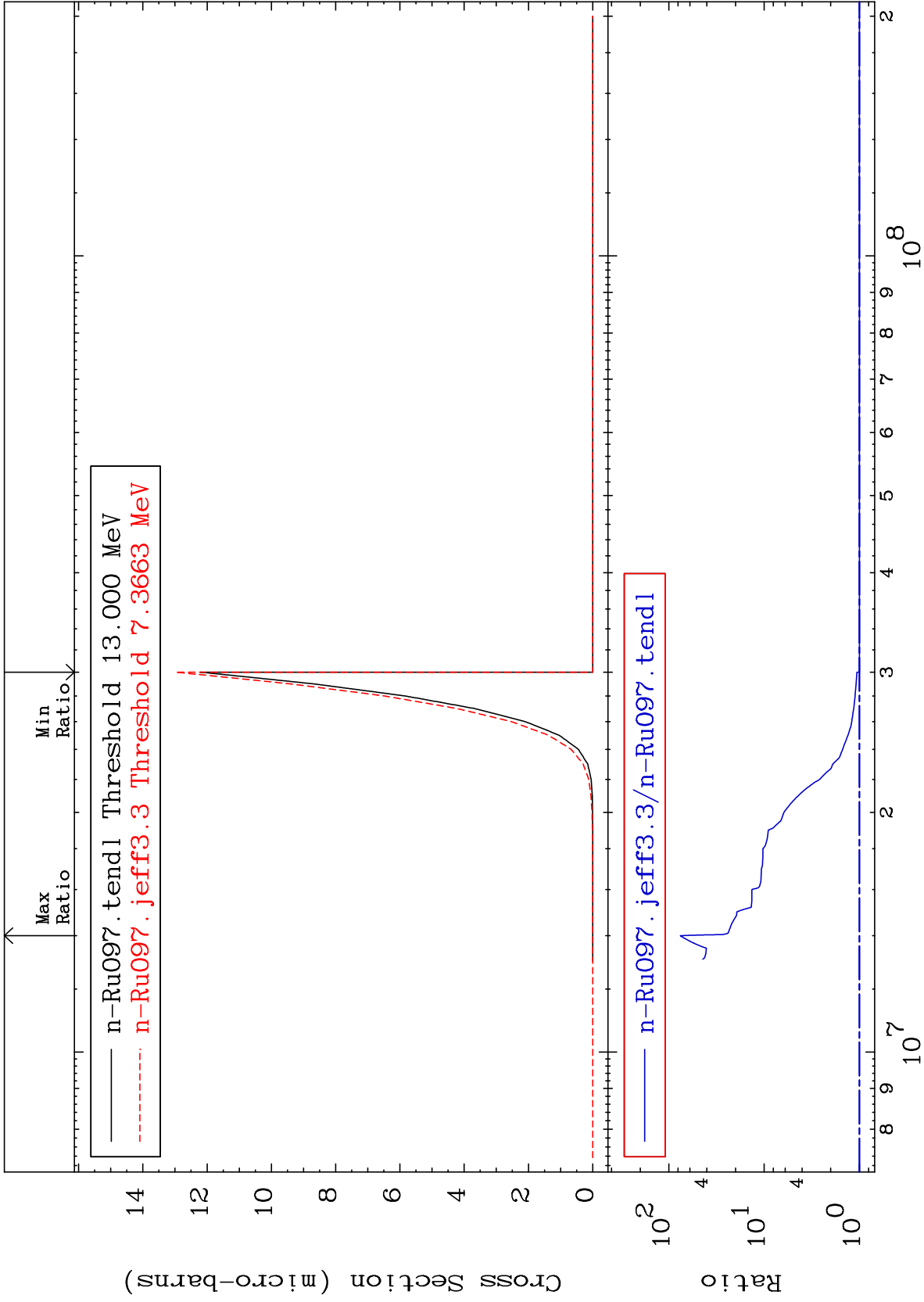
44-Ru-97

MAT 4428

(n, d) α : 41-Nb-92m1

44-Ru-97

Radionuclide Production Cross Section 0.000 To 7476. %



107

Incident Energy (eV)

44-Ru-97