

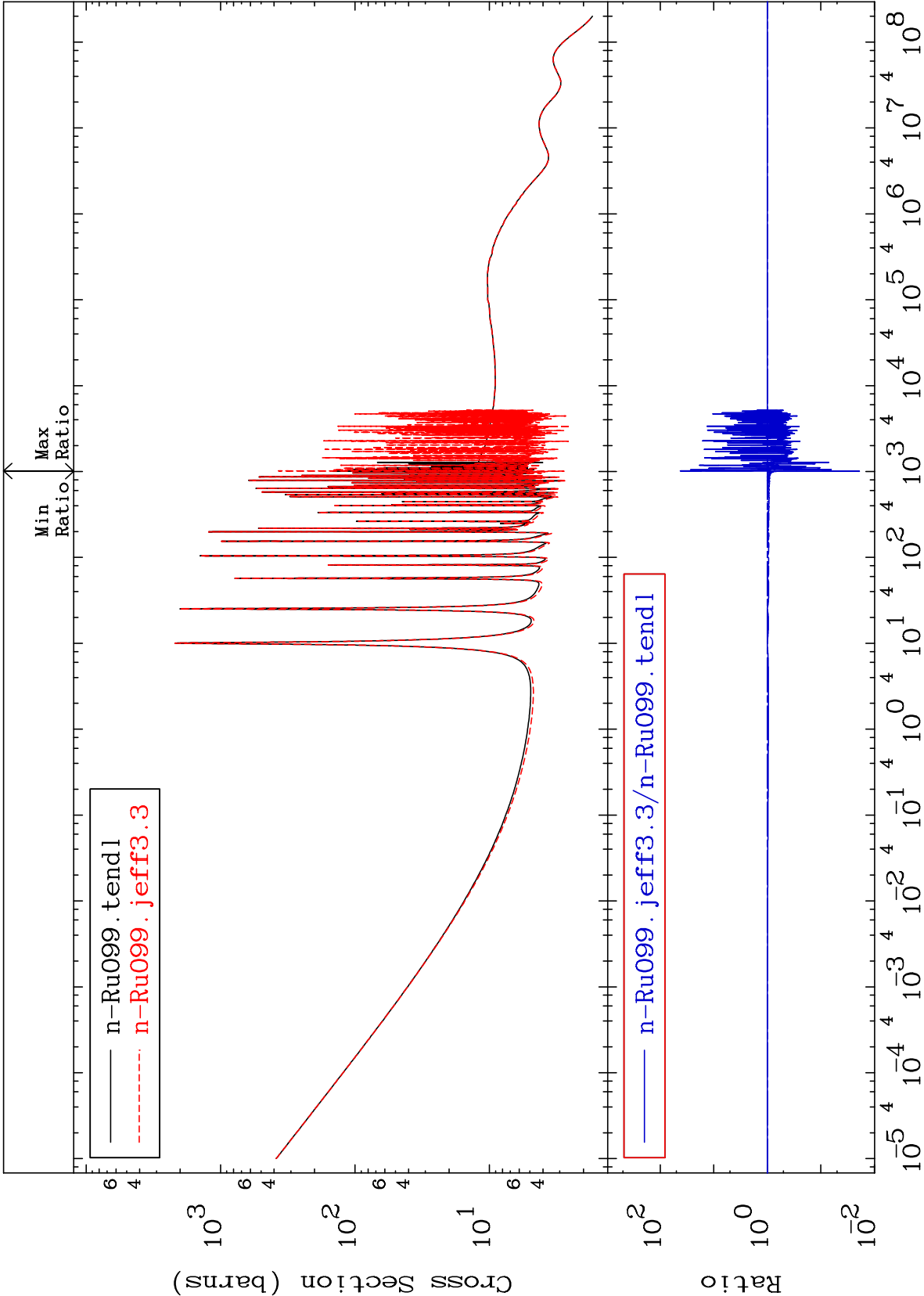
MAT 4434

Total

44-Ru-99

Cross Section

-98.09 To 4149. %



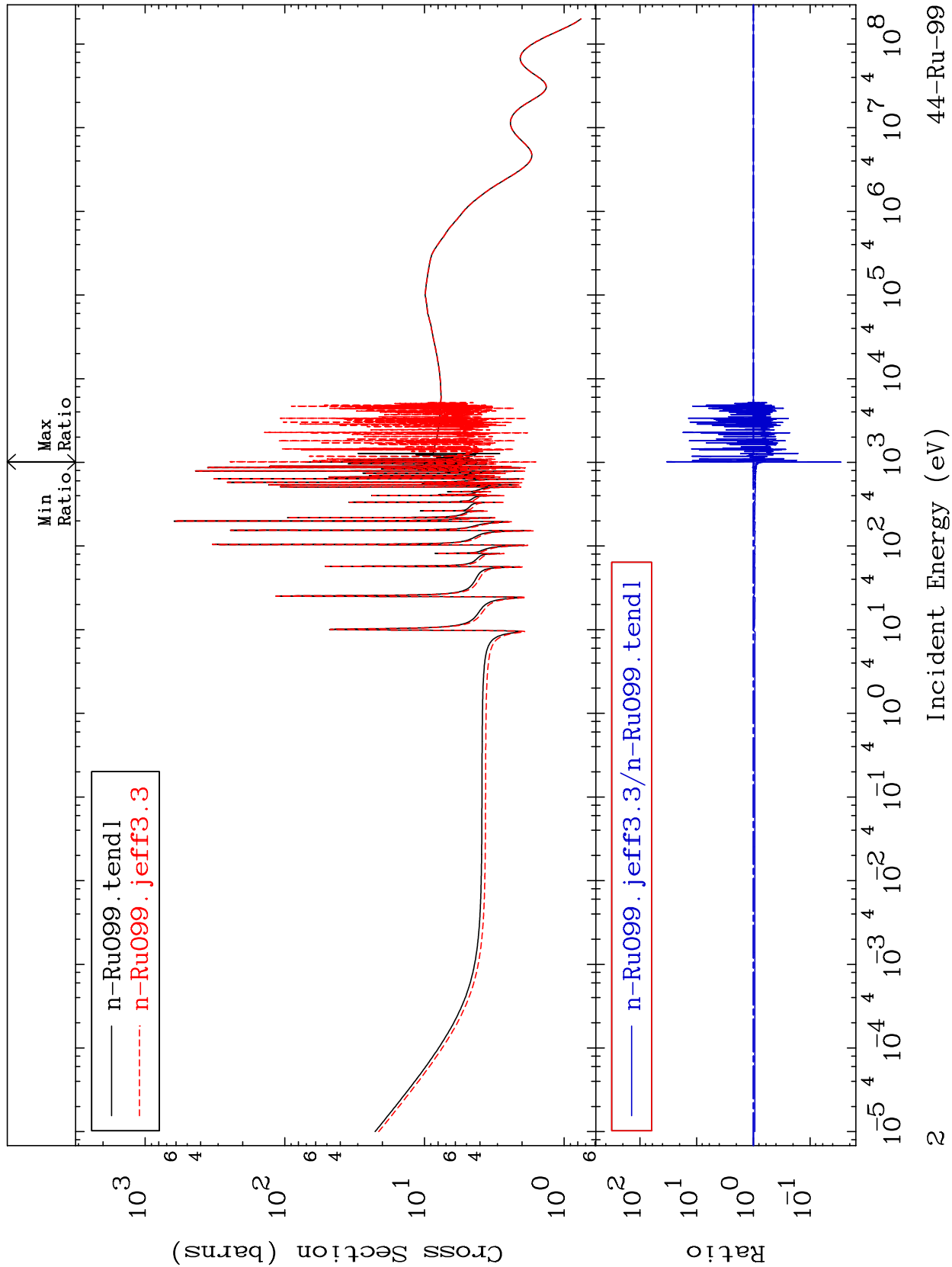
MAT 4434

Elastic

Cross Section

44-Ru-99

-97.15 To 3303. %



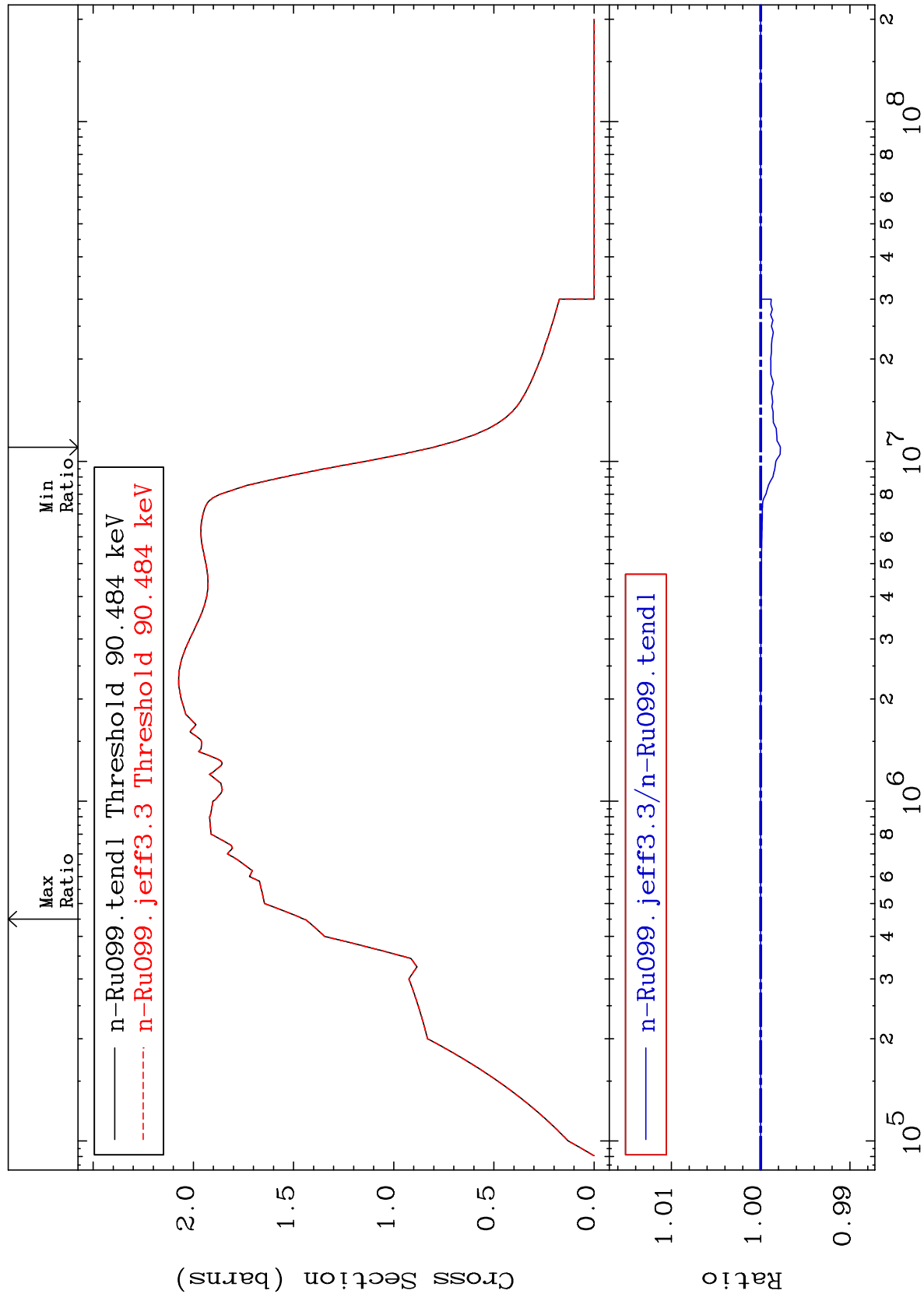
MAT 4434

44-Ru-99

Inelastic

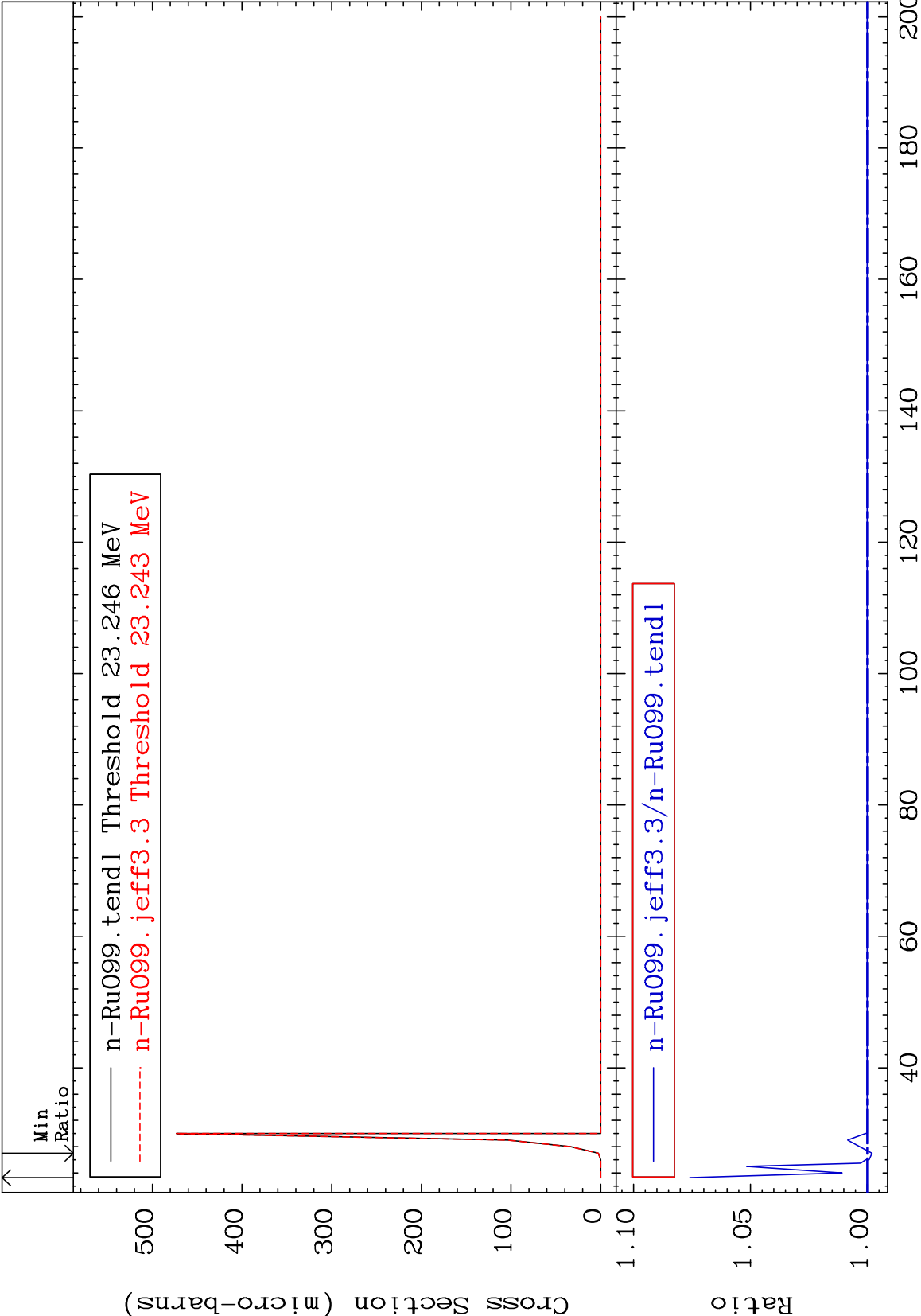
Cross Section

-0.222 To 0.000 %



Incident Energy (eV)

44-Ru-99



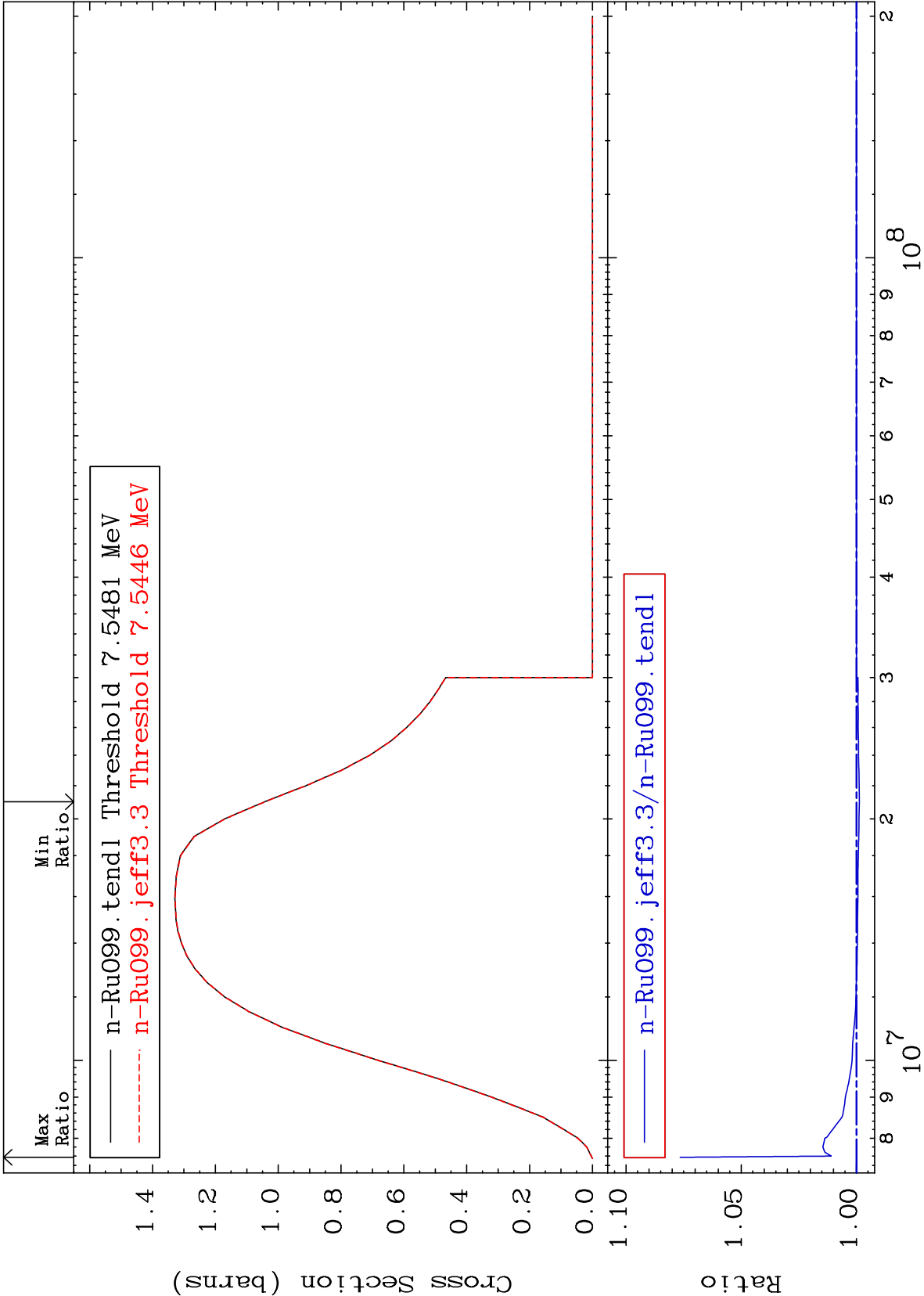
MAT 4434

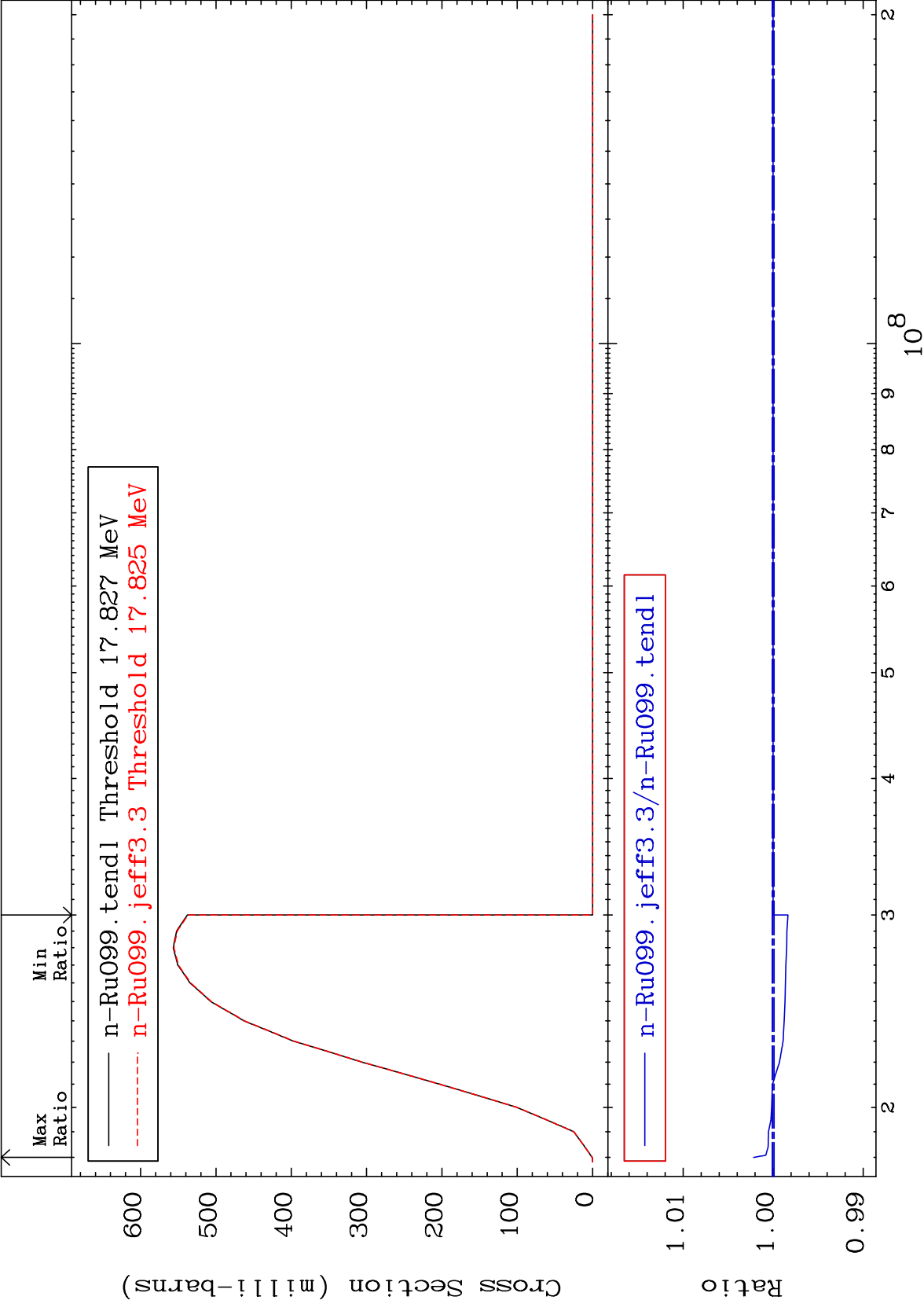
(n,2n)

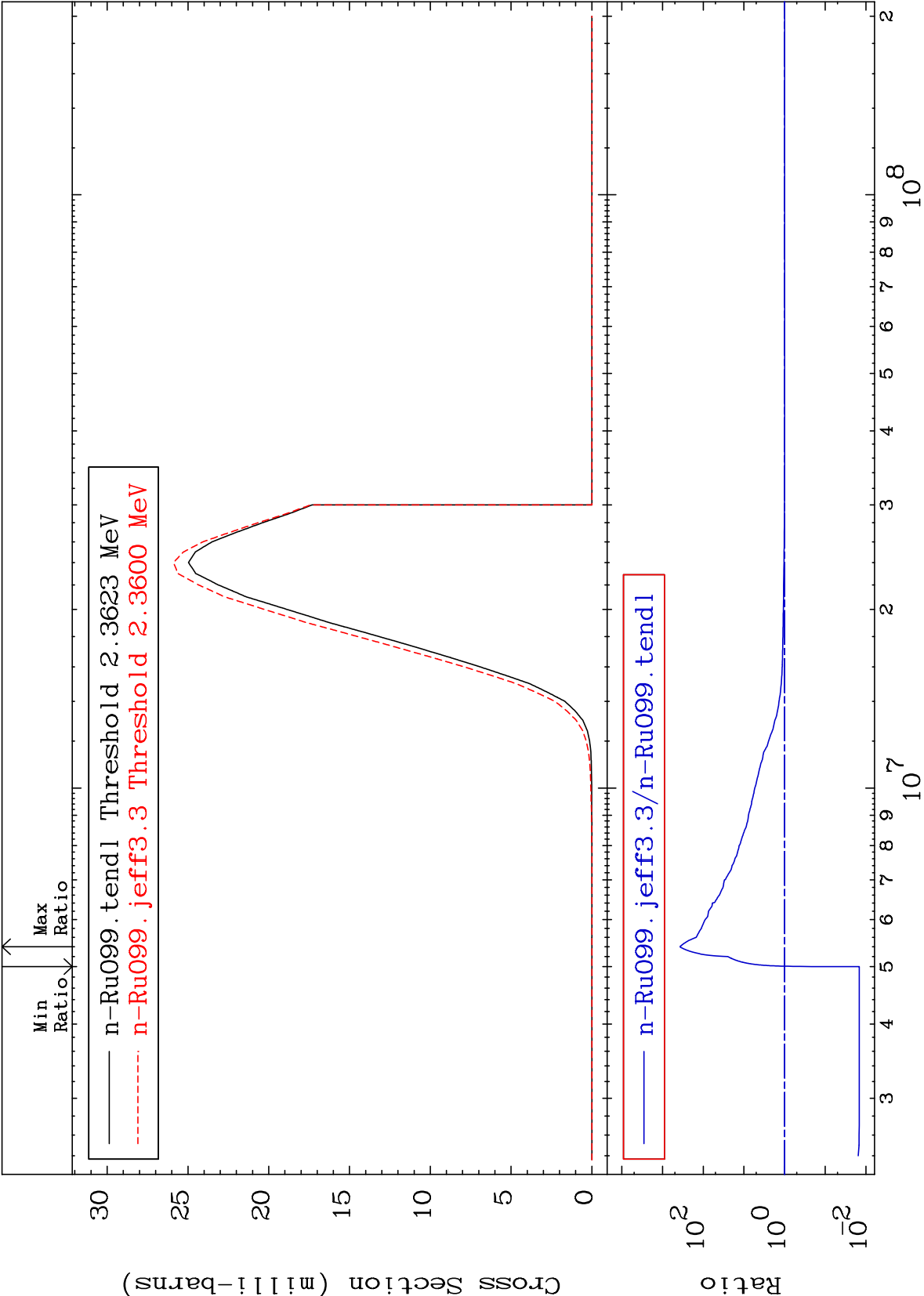
44-Ru-99

Cross Section

-0.127 To 7.652 %



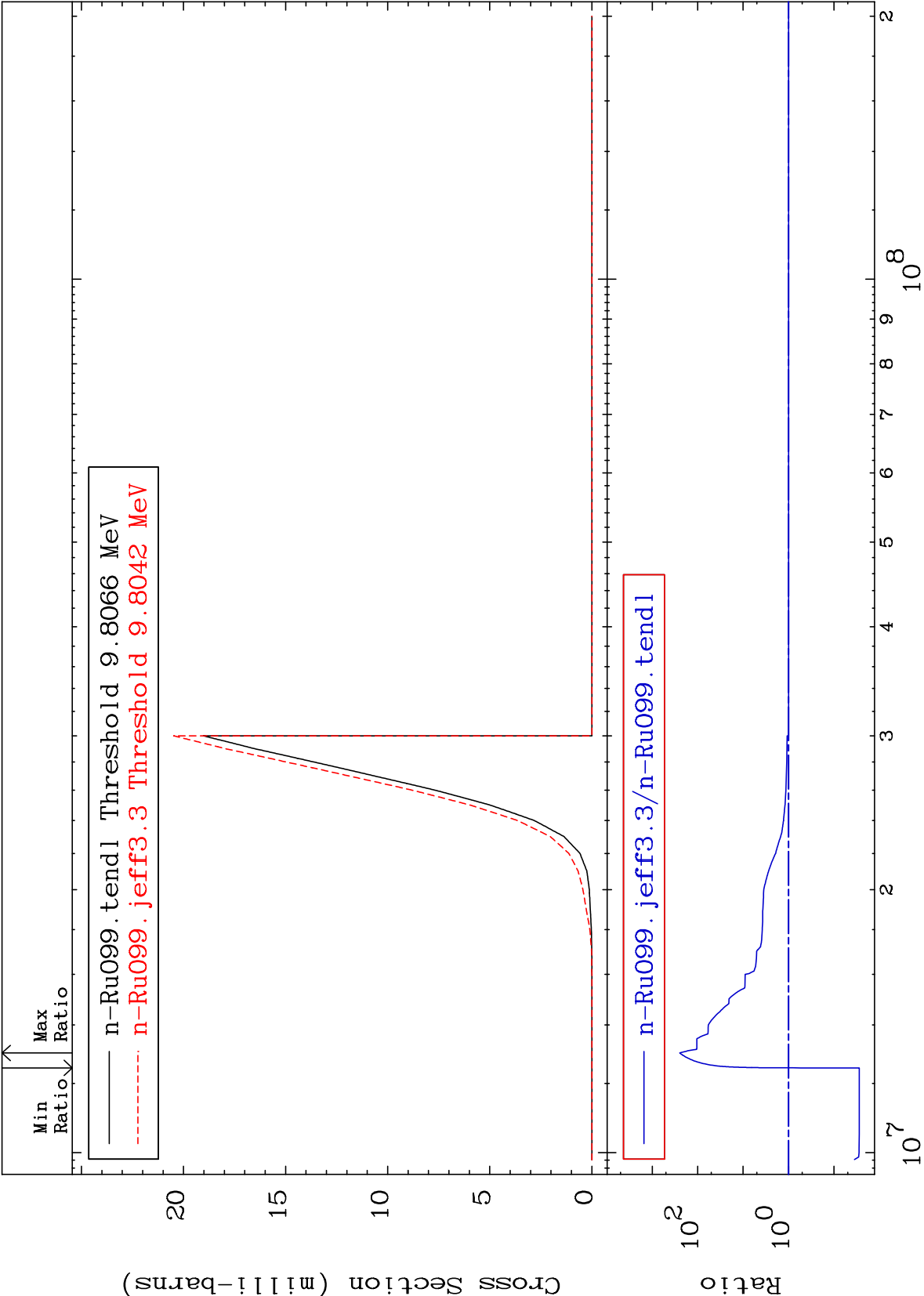




MAT 4434

(n,2n) α
Cross Section

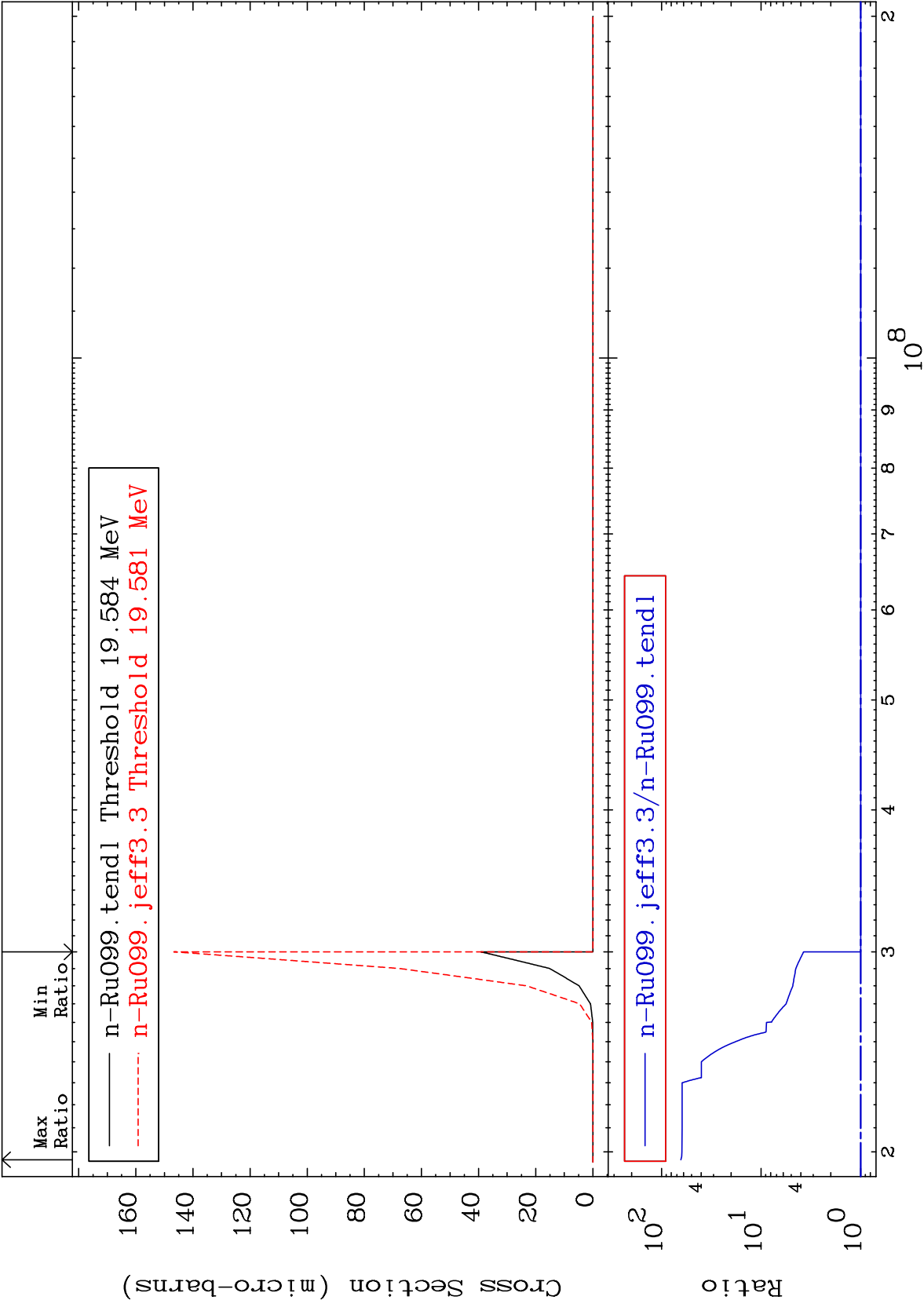
44-Ru-99
-97.22 To 9999. %



44-Ru-99

MAT 4434

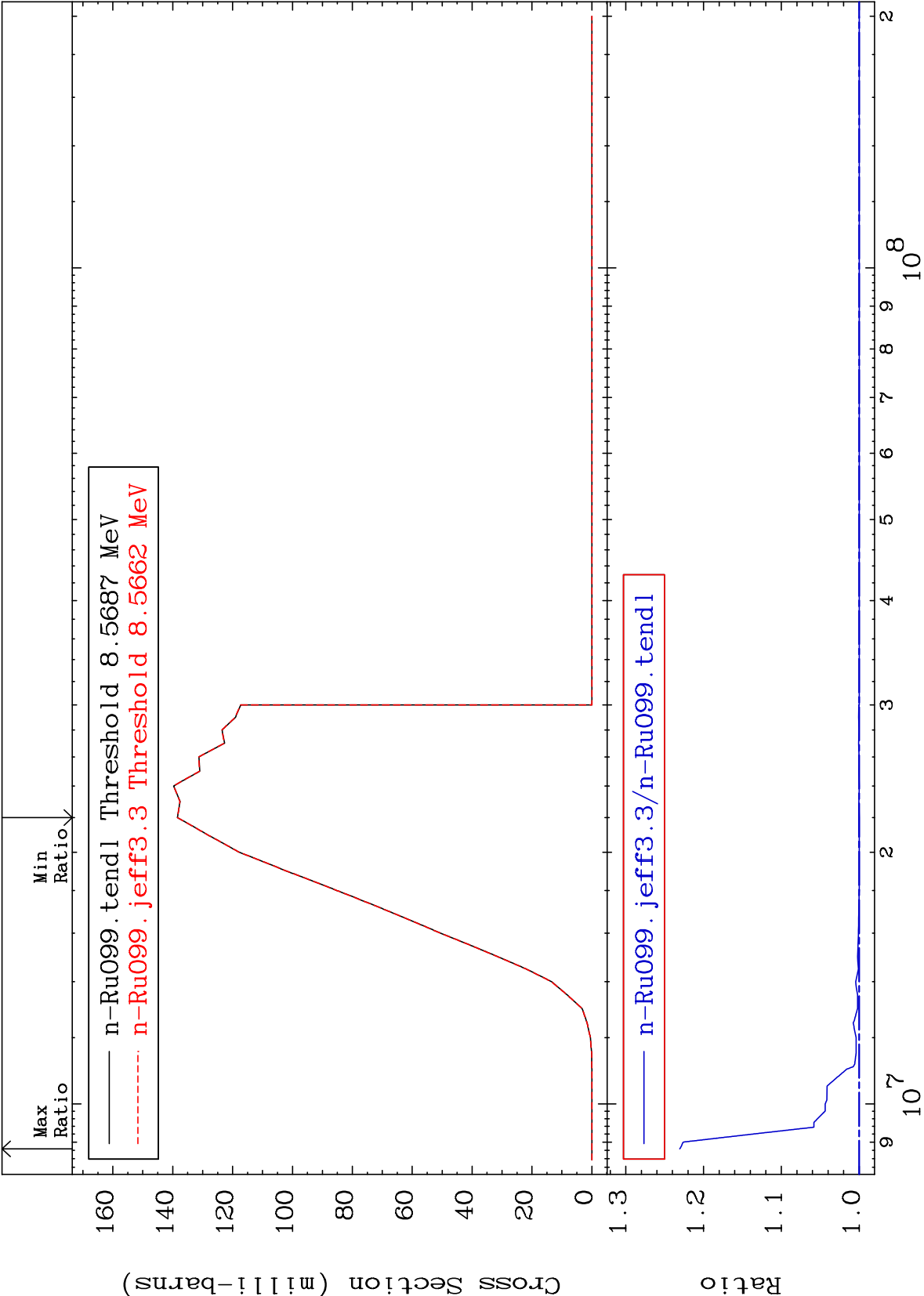
(n,3n) α
Cross Section
0.000 To 6291. %
44-Ru-99



MAT 4434

(n,n') p
Cross Section

44-Ru-99
-0.009 To 23.06 %



Incident Energy (eV)

44-Ru-99

MAT 4434

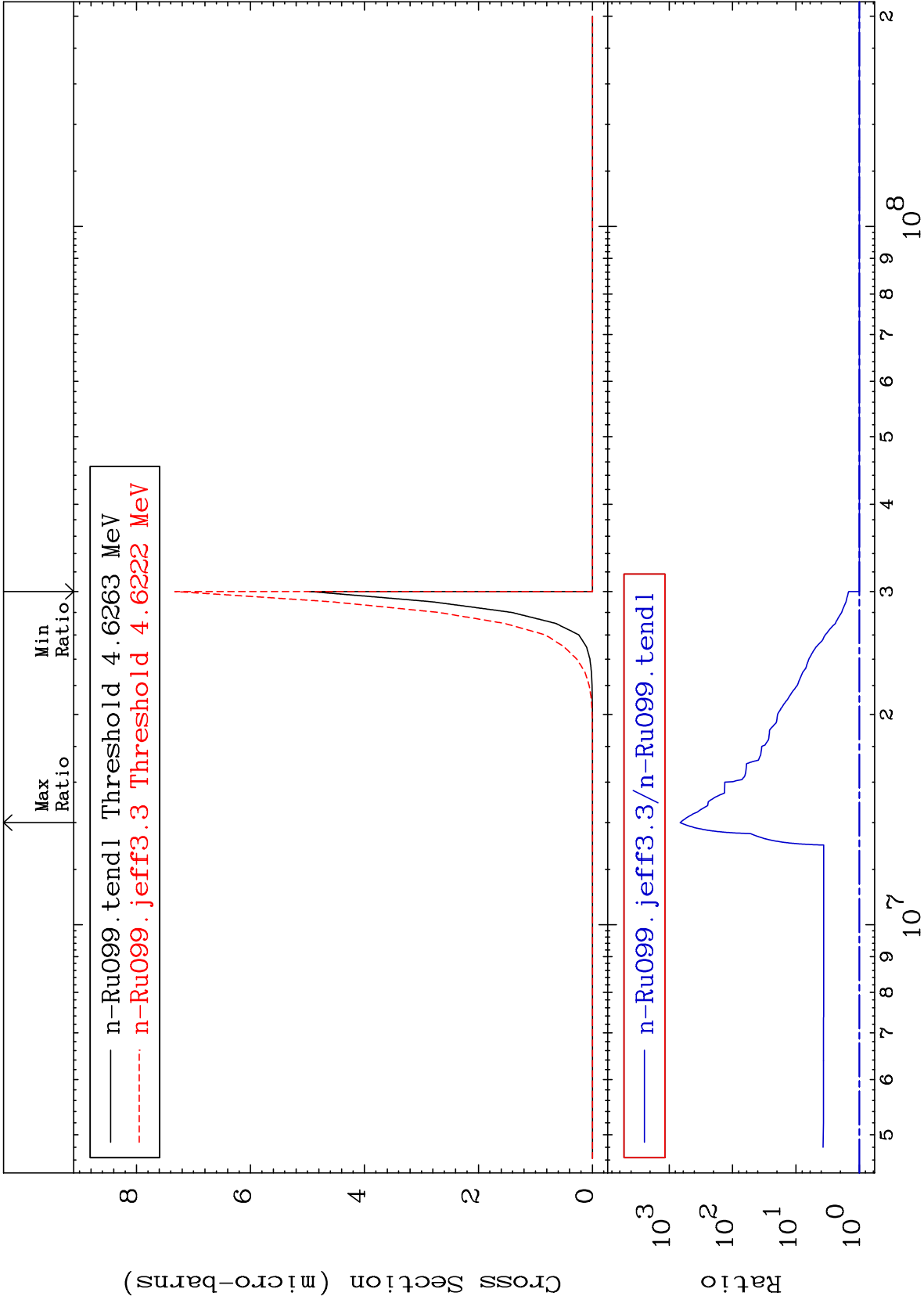
44-Ru-99

(n,n') 2α

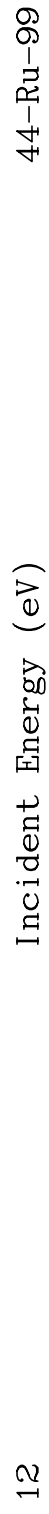
Cross Section

0.000

To 9999. %

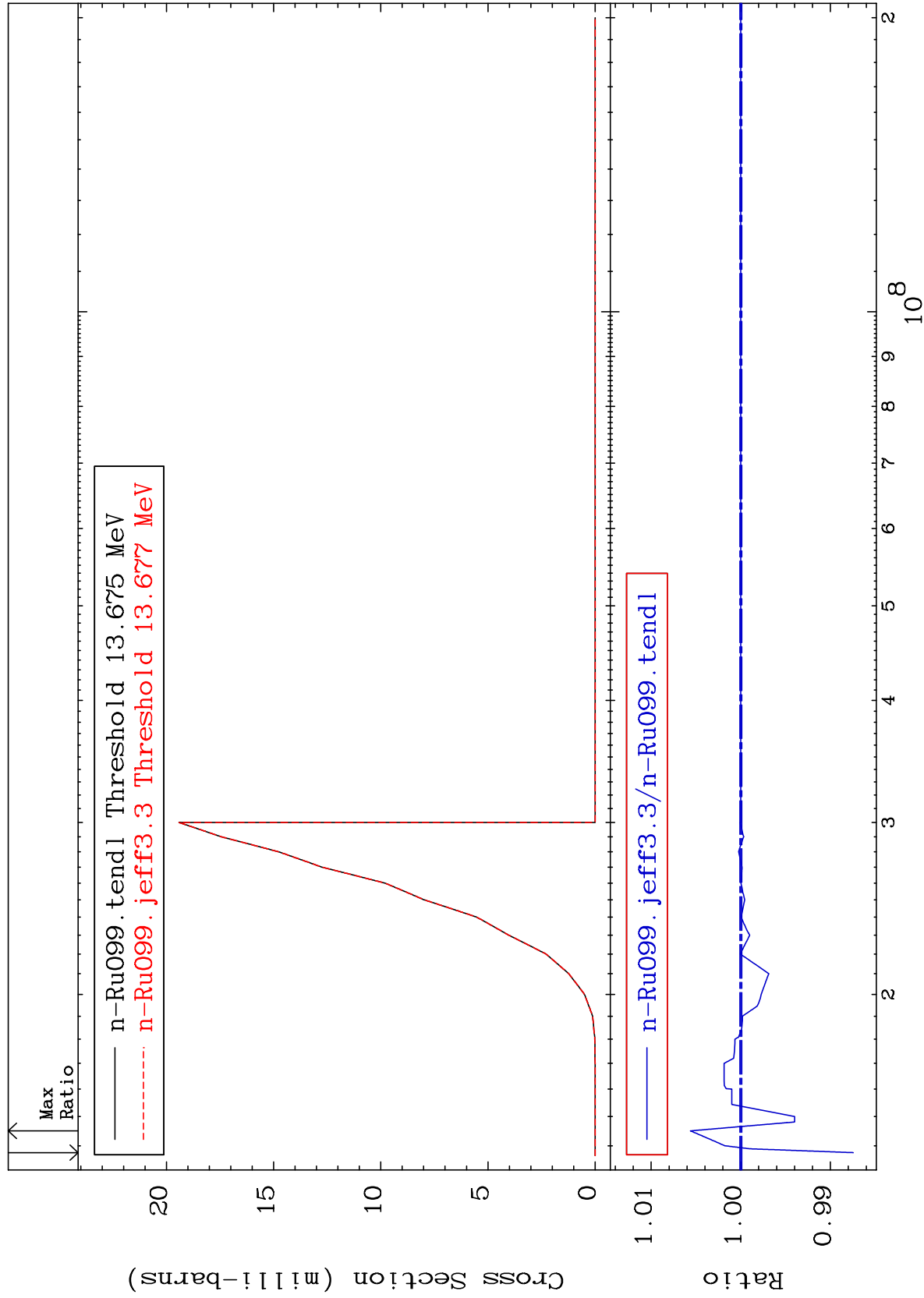


(n,2n) 2α
Cross Section
0.000 To 9999. %
44-Ru-99



Cross Section

-1.254 To 0.561 %



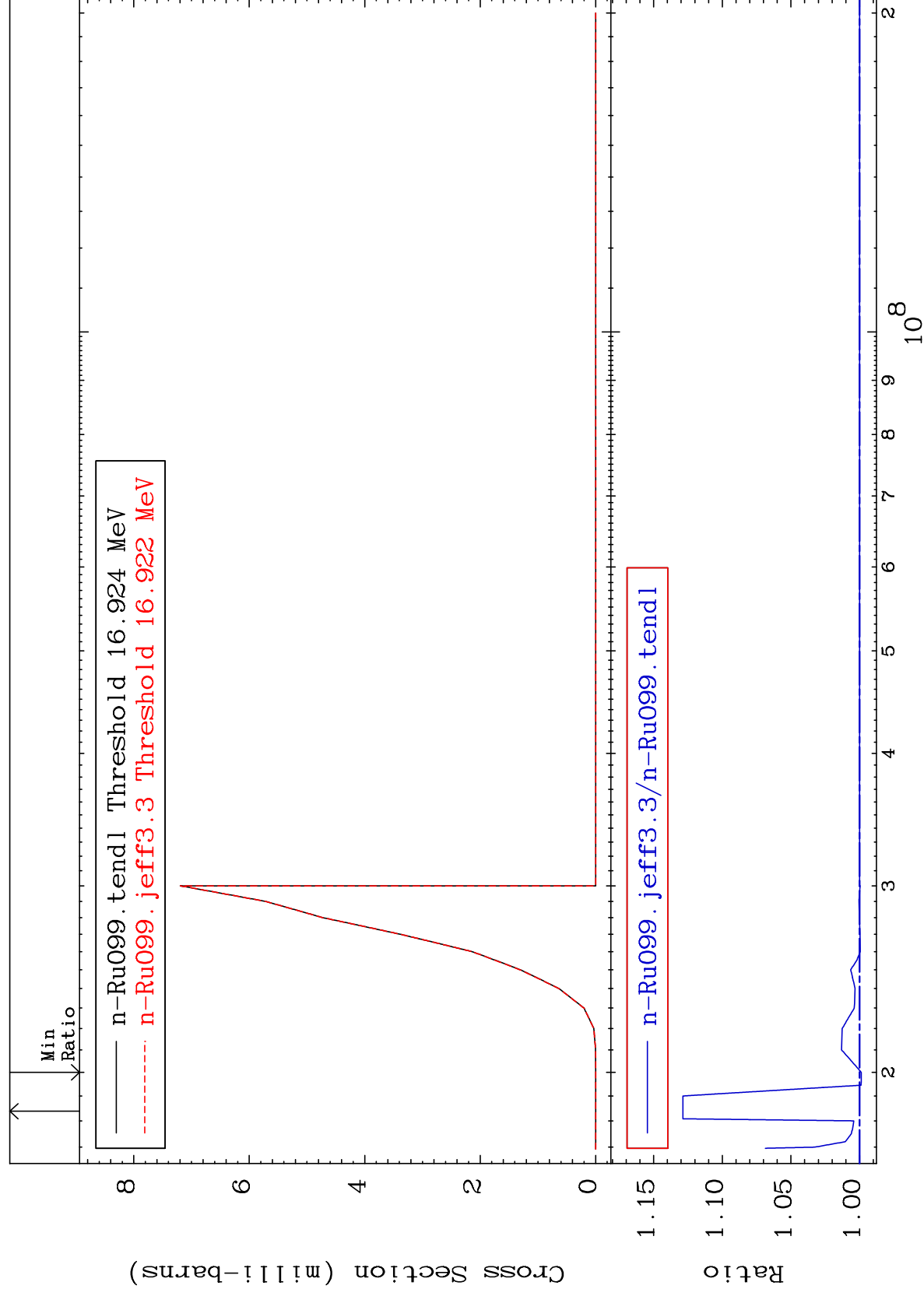
MAT 4434

$$(n, n')t$$

44-Ru-99

Cross Section

-0.122 To 12.87 %



14

Incident Energy (eV)

44-Ru-99

MAT 4434

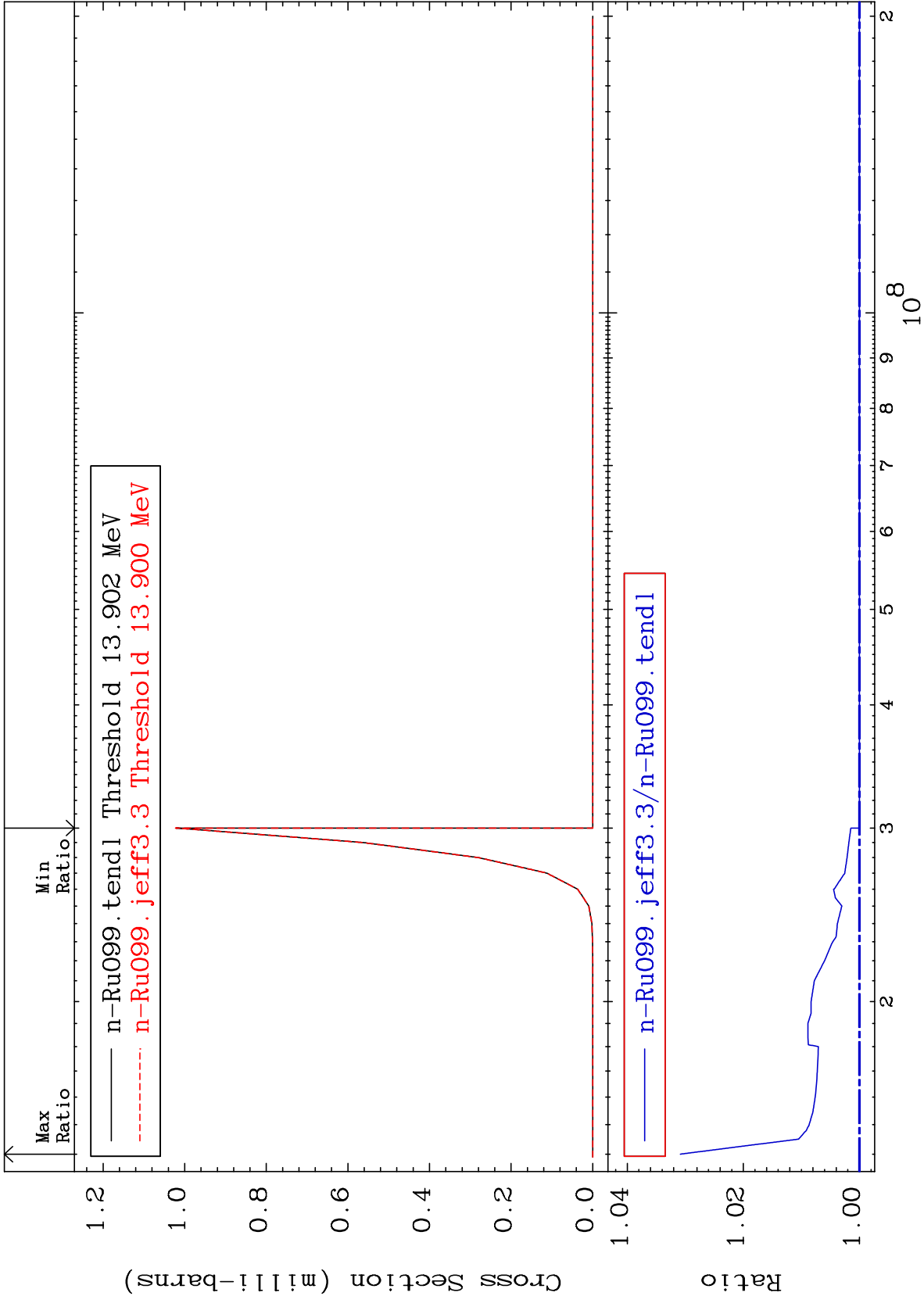
(n,n') He-3

44-Ru-99

Cross Section

0.000

To 3.086 %



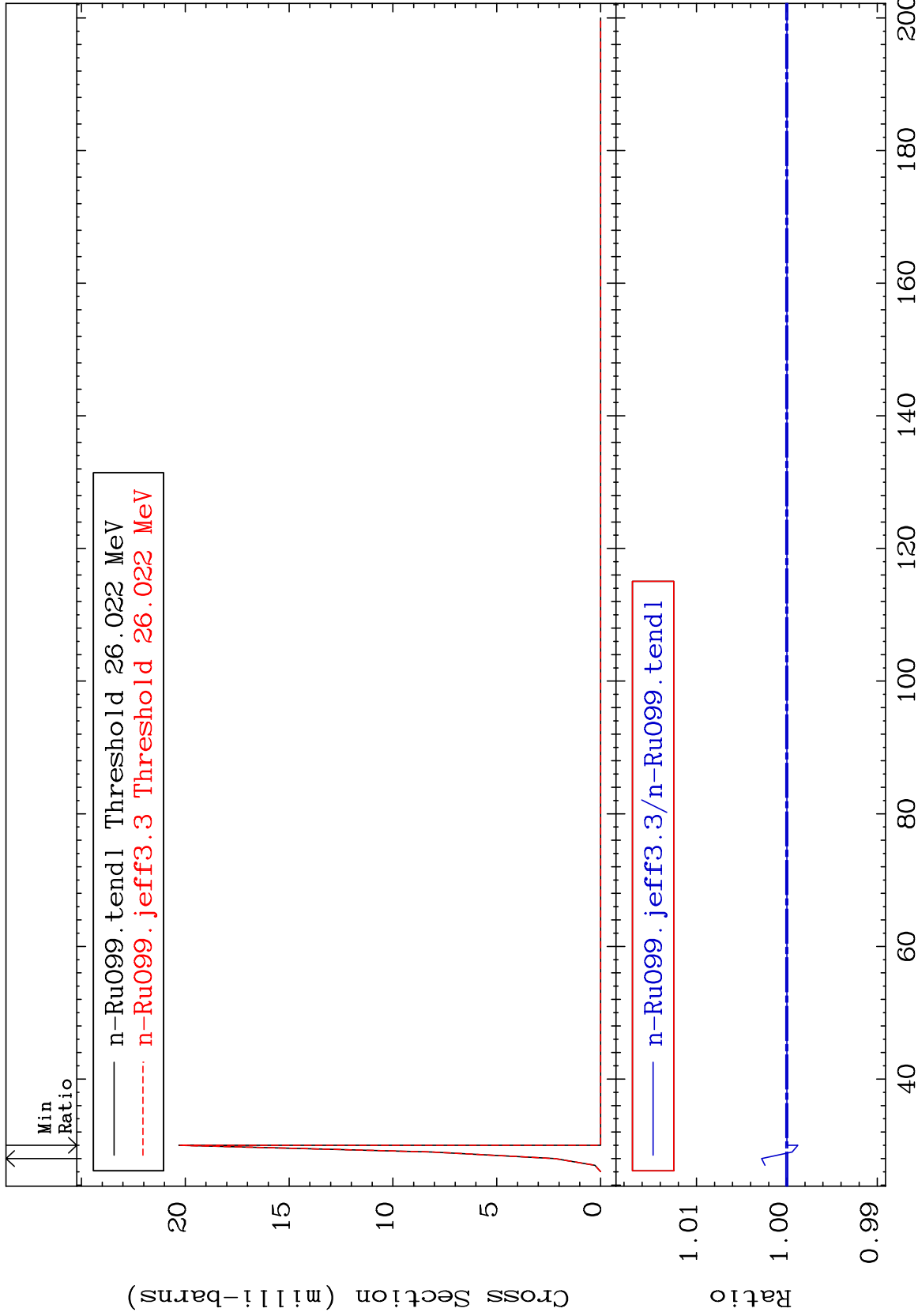
MAT 4434

(n,4n)

44-Ru-99

Cross Section

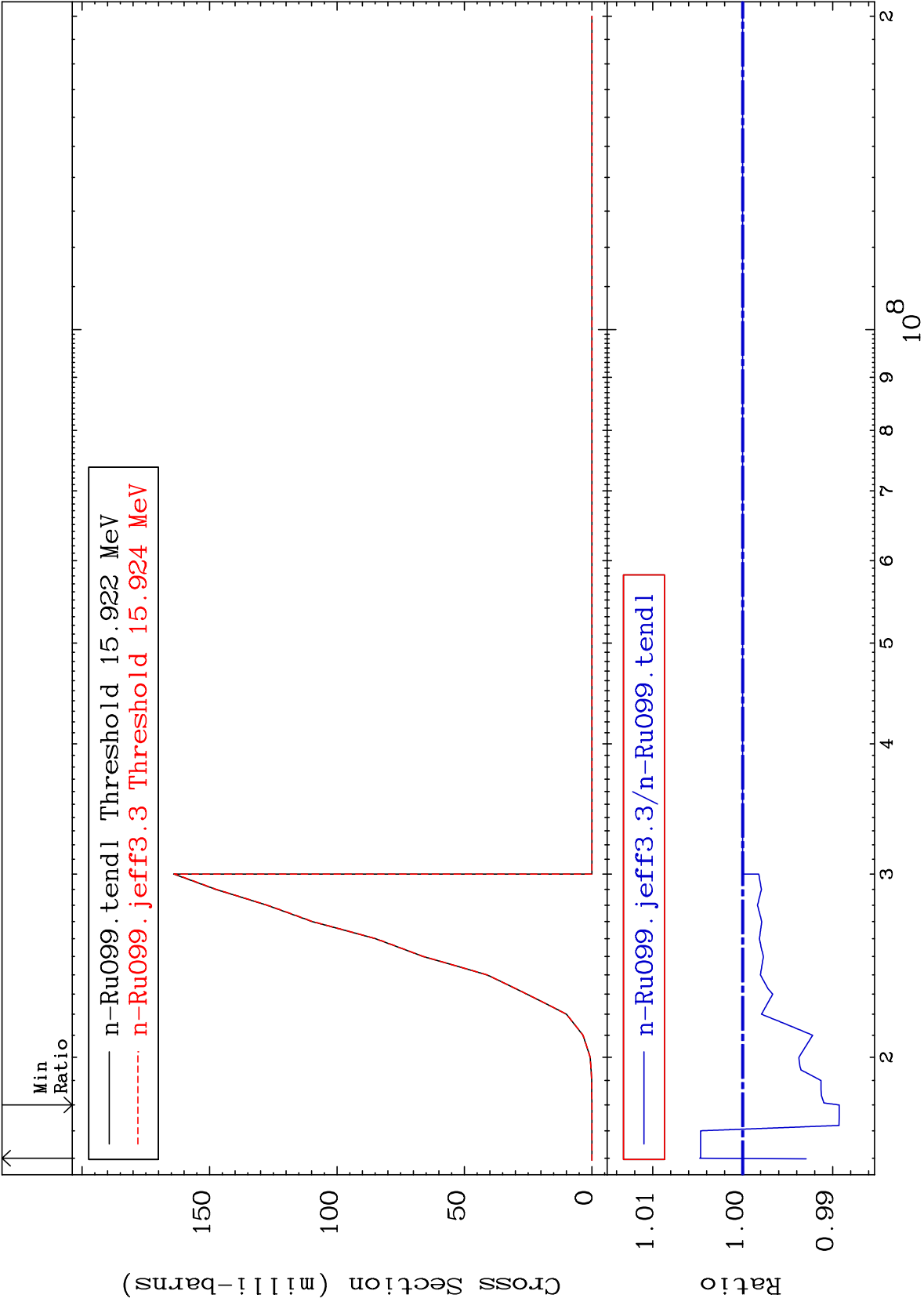
-0.121 To 0.280 %

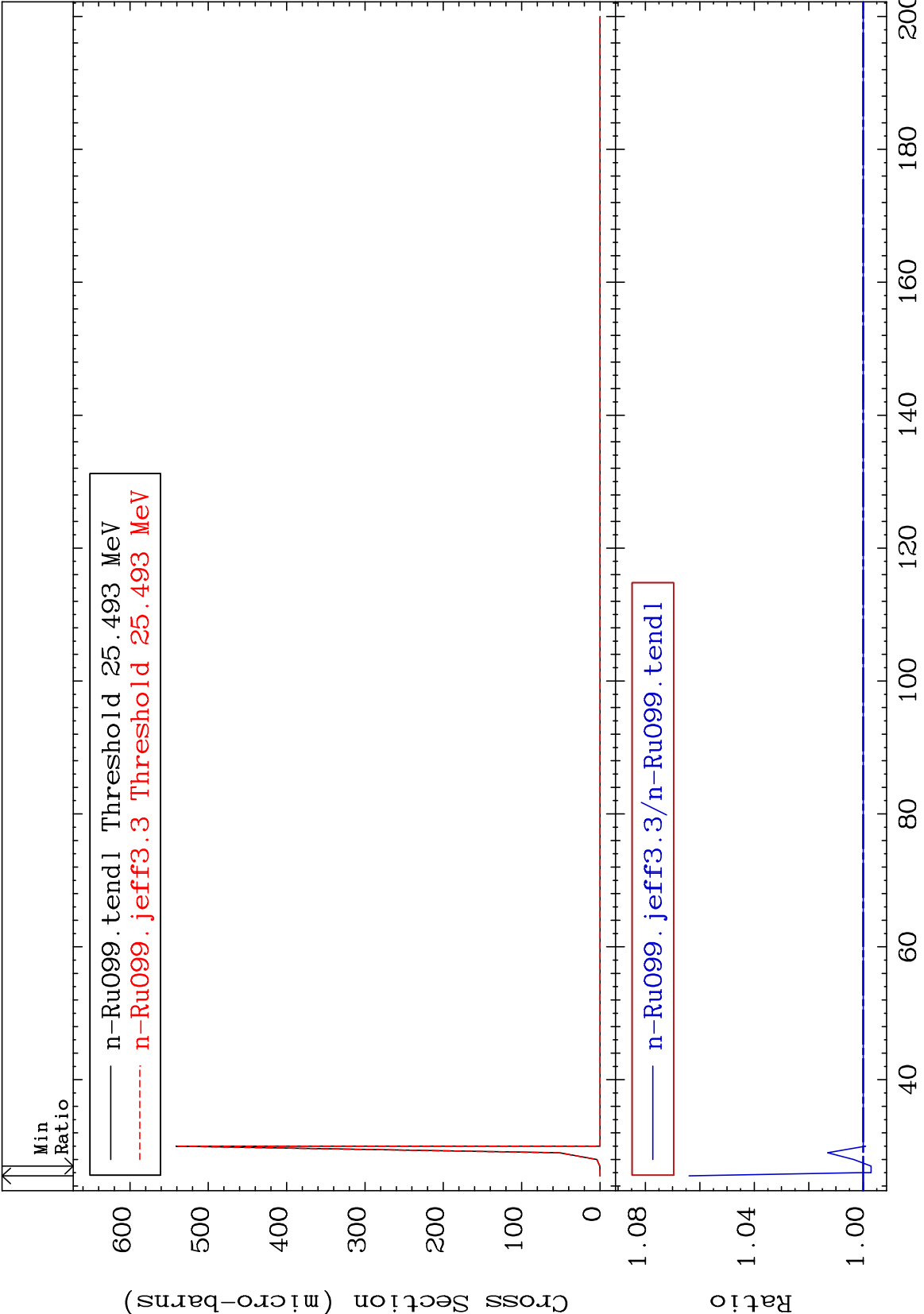


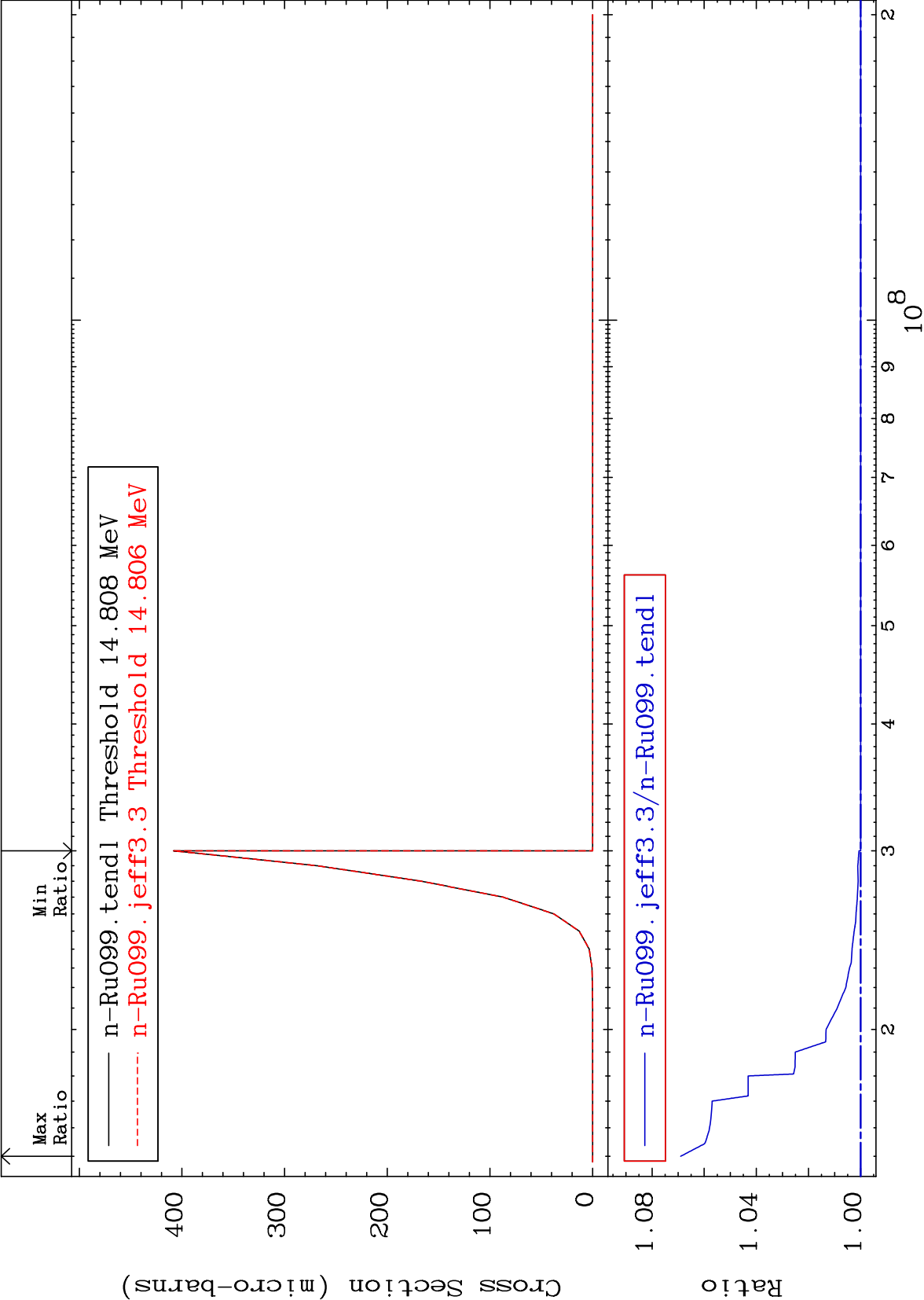
MAT 4434

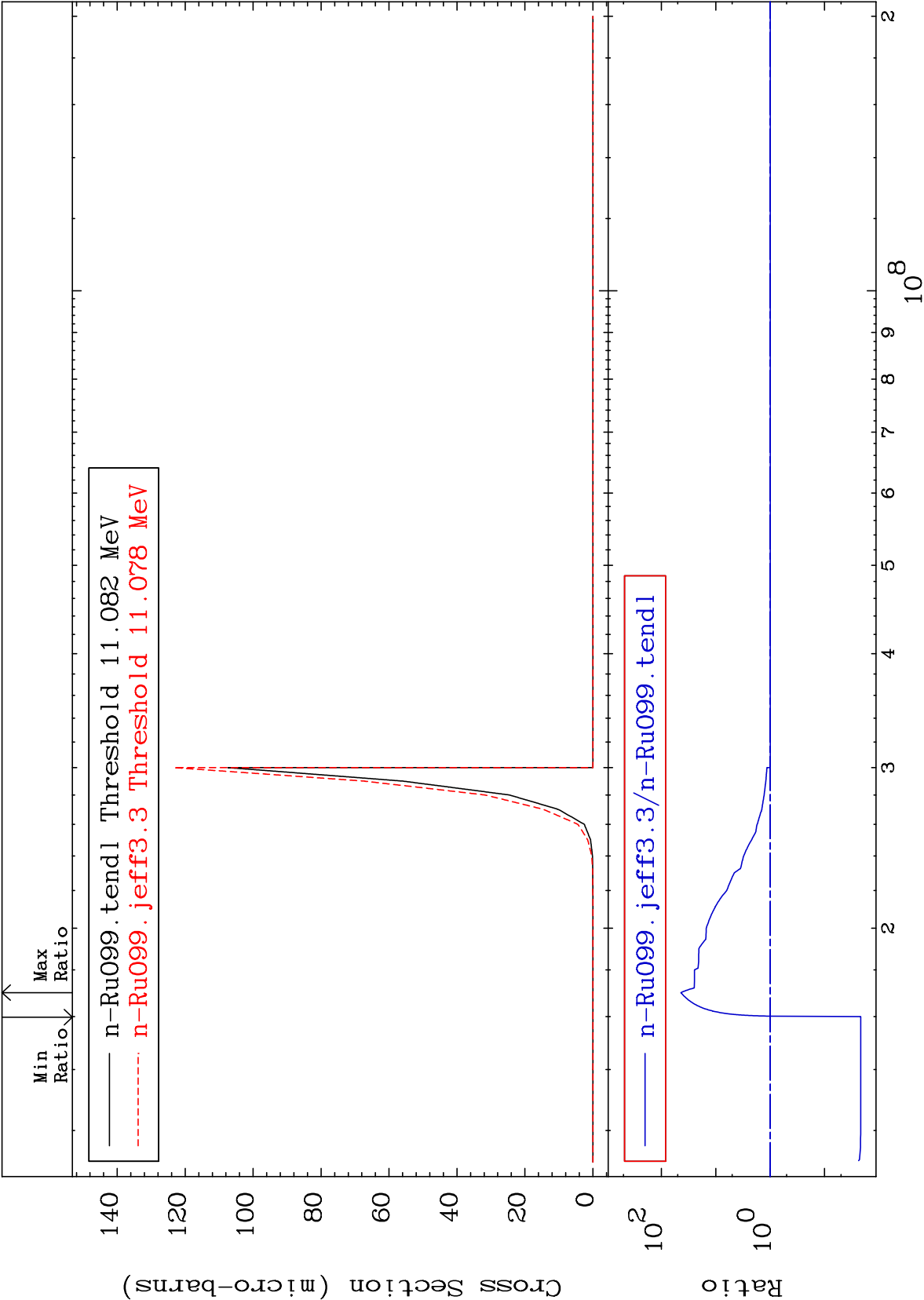
(n,2n) p
Cross Section

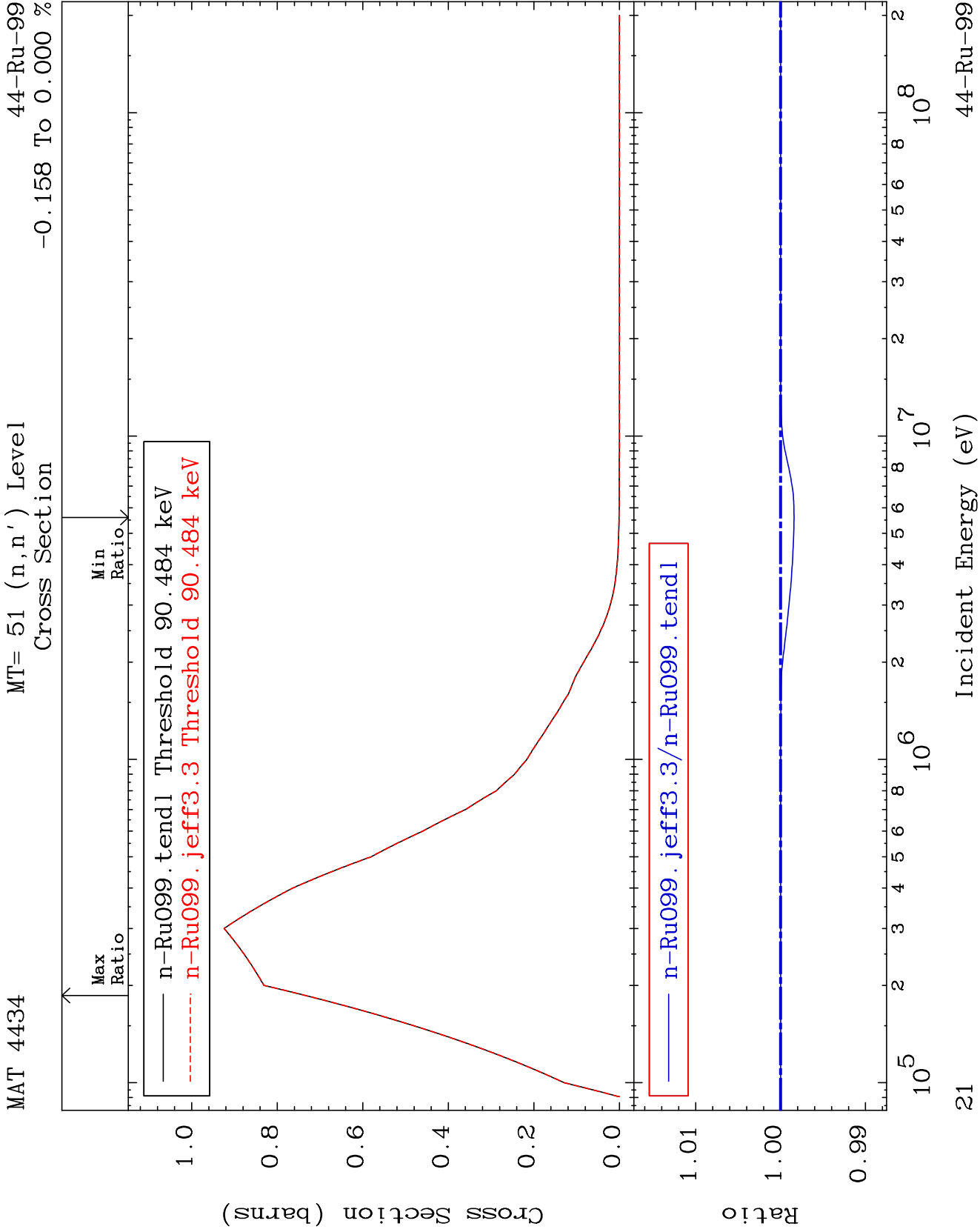
44-Ru-99
-1.072 To 0.476 %





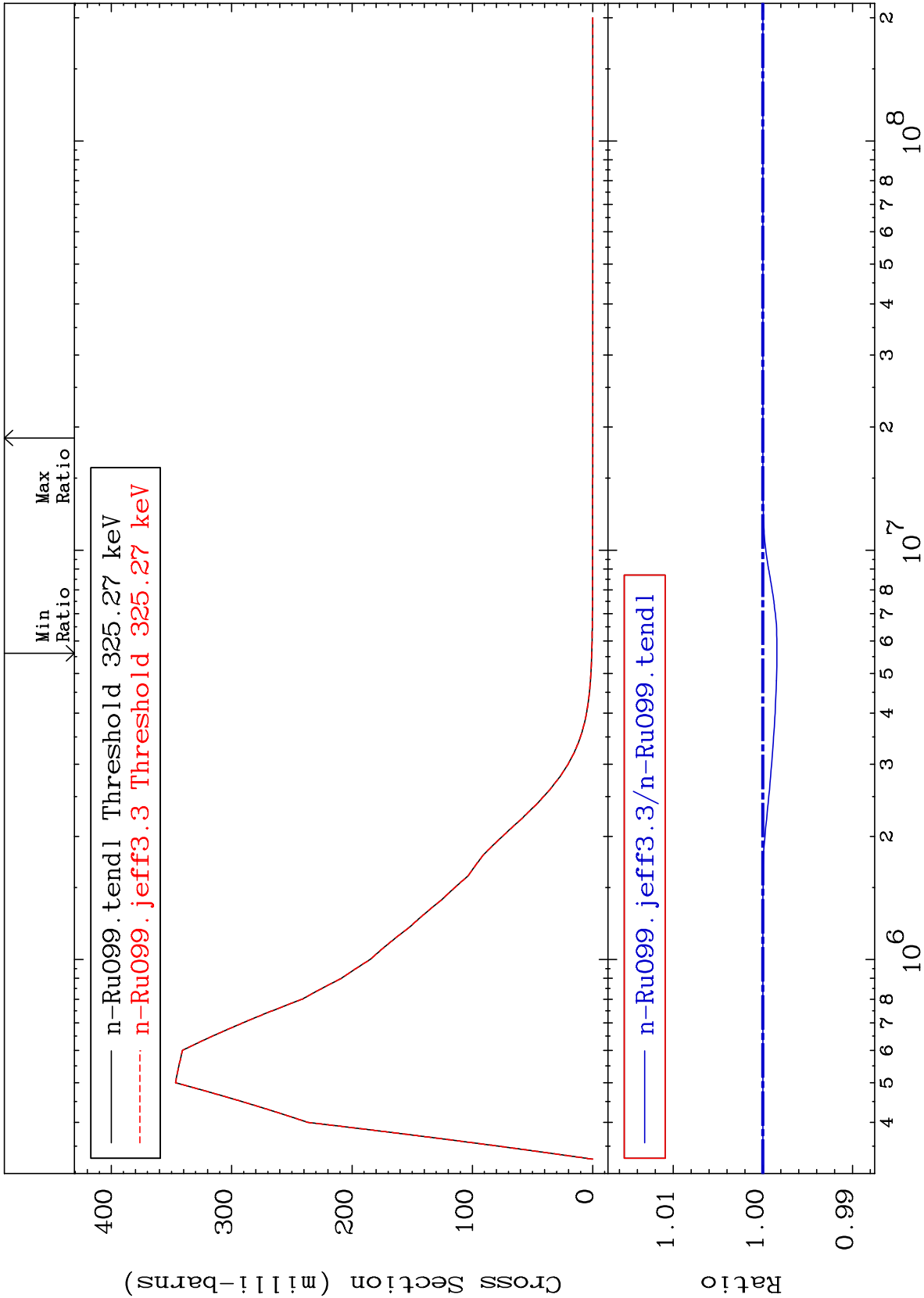


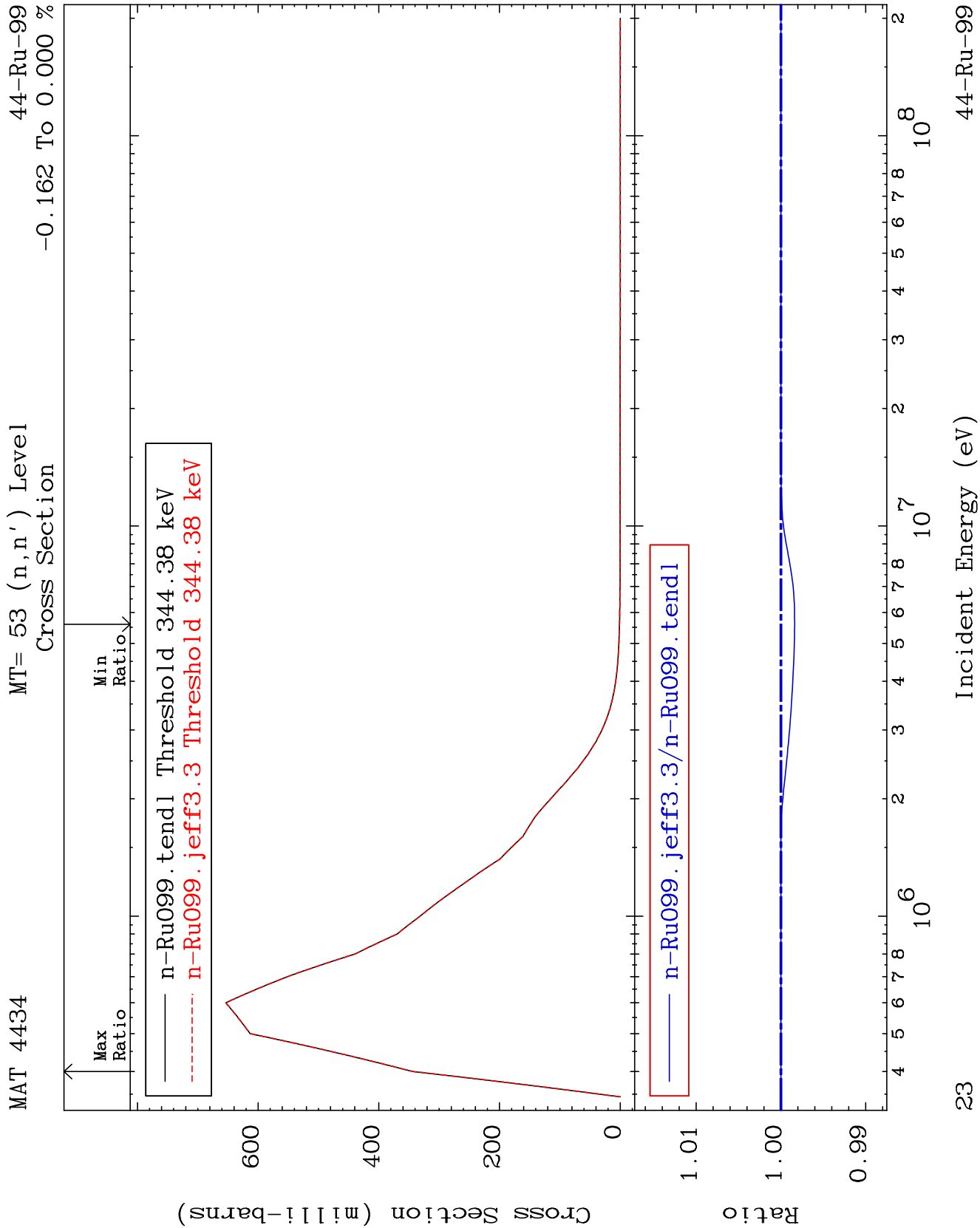




-0.157 To 0.000 %

Cross Section





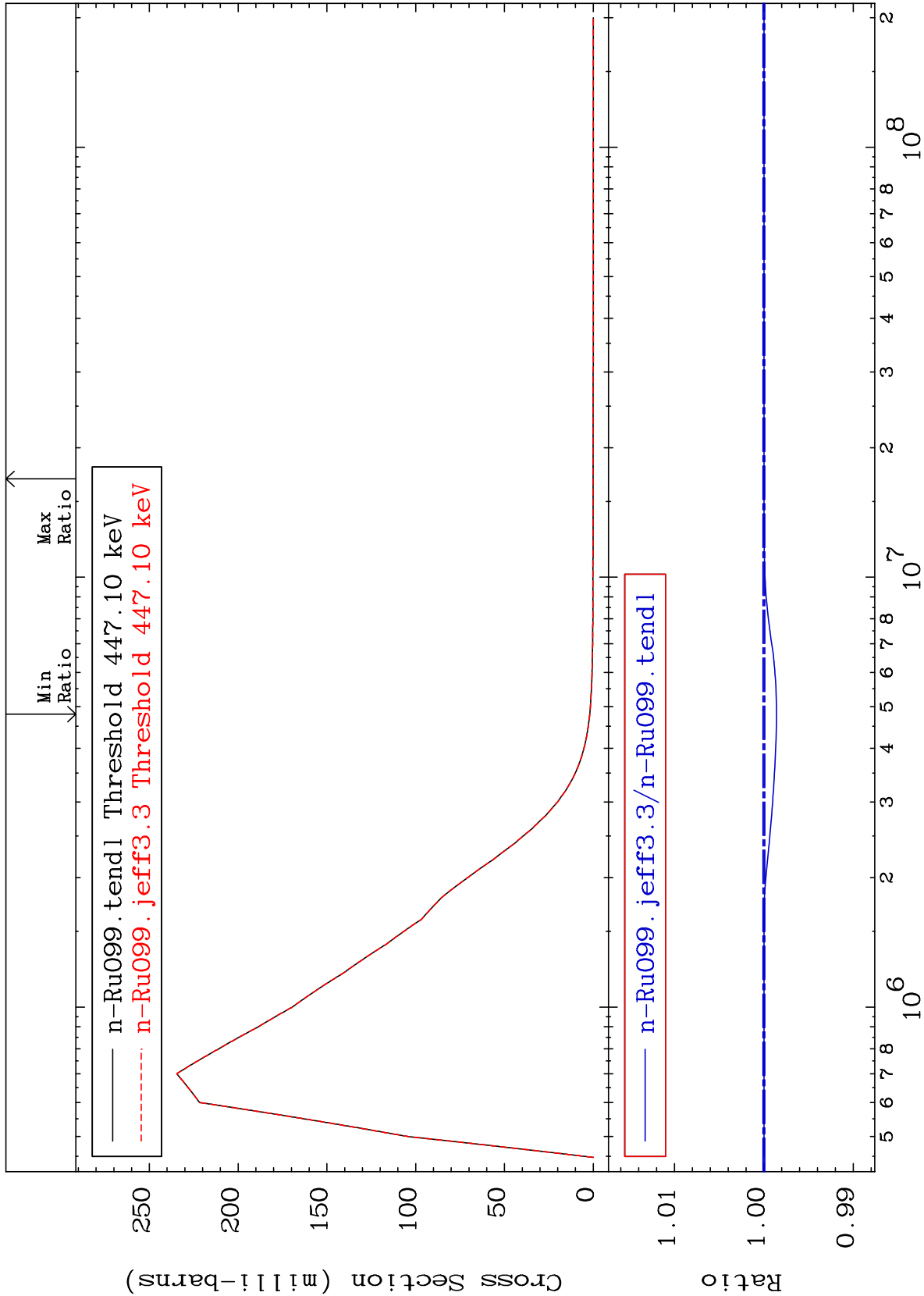
MAT 4434

MT= 54 (n,n') Level

44-Ru-99

-0.140 To 0.000 %

Cross Section



24

Incident Energy (eV)

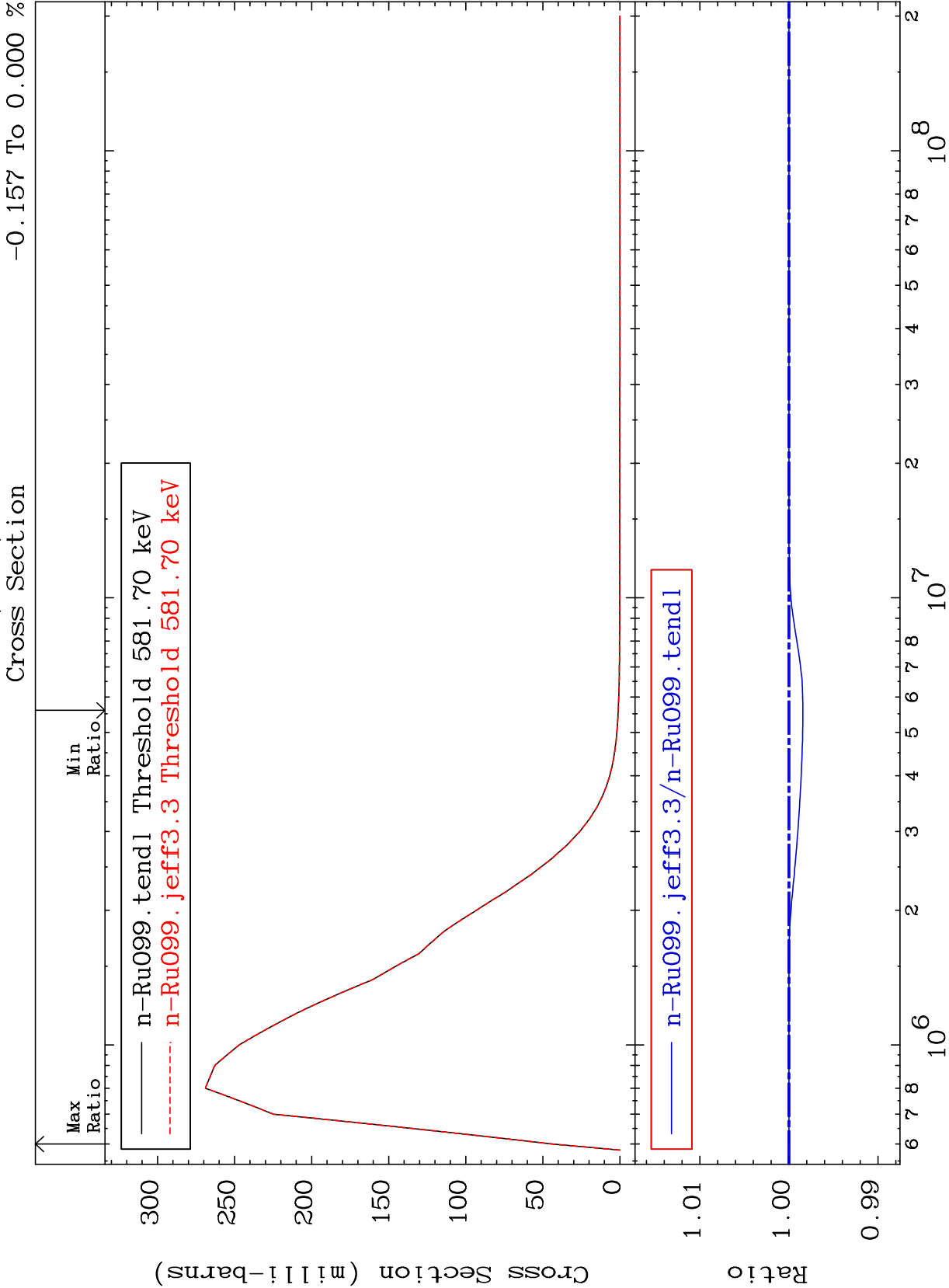
44-Ru-99

MAT 4434

MT= 55 (n,n') Level

44-Ru-99

-0.157 To 0.000 %



25

Incident Energy (eV)

44-Ru-99

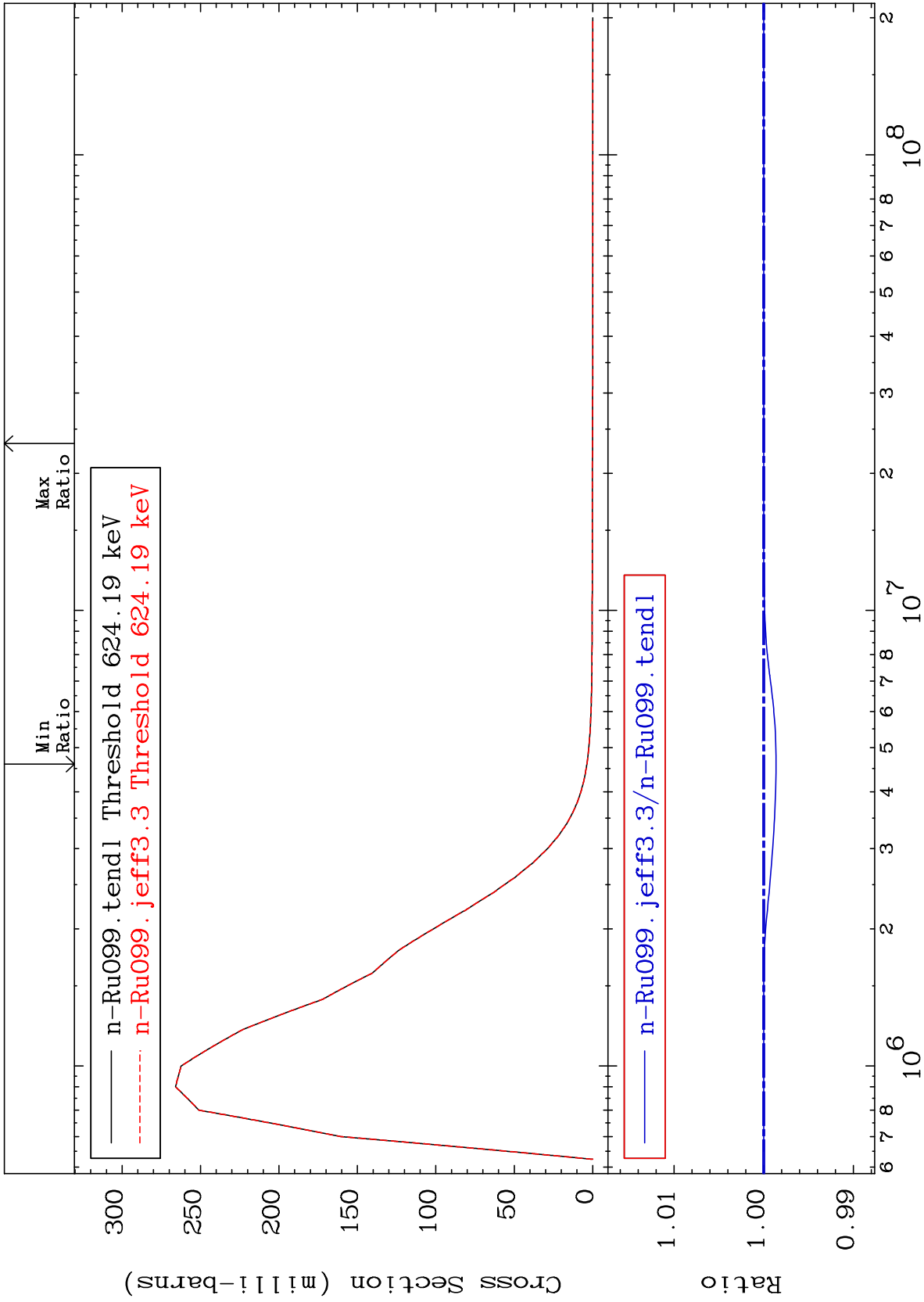
MAT 4434

MT= 56 (n,n') Level

44-Ru-99

-0.138 To 0.000 %

Cross Section



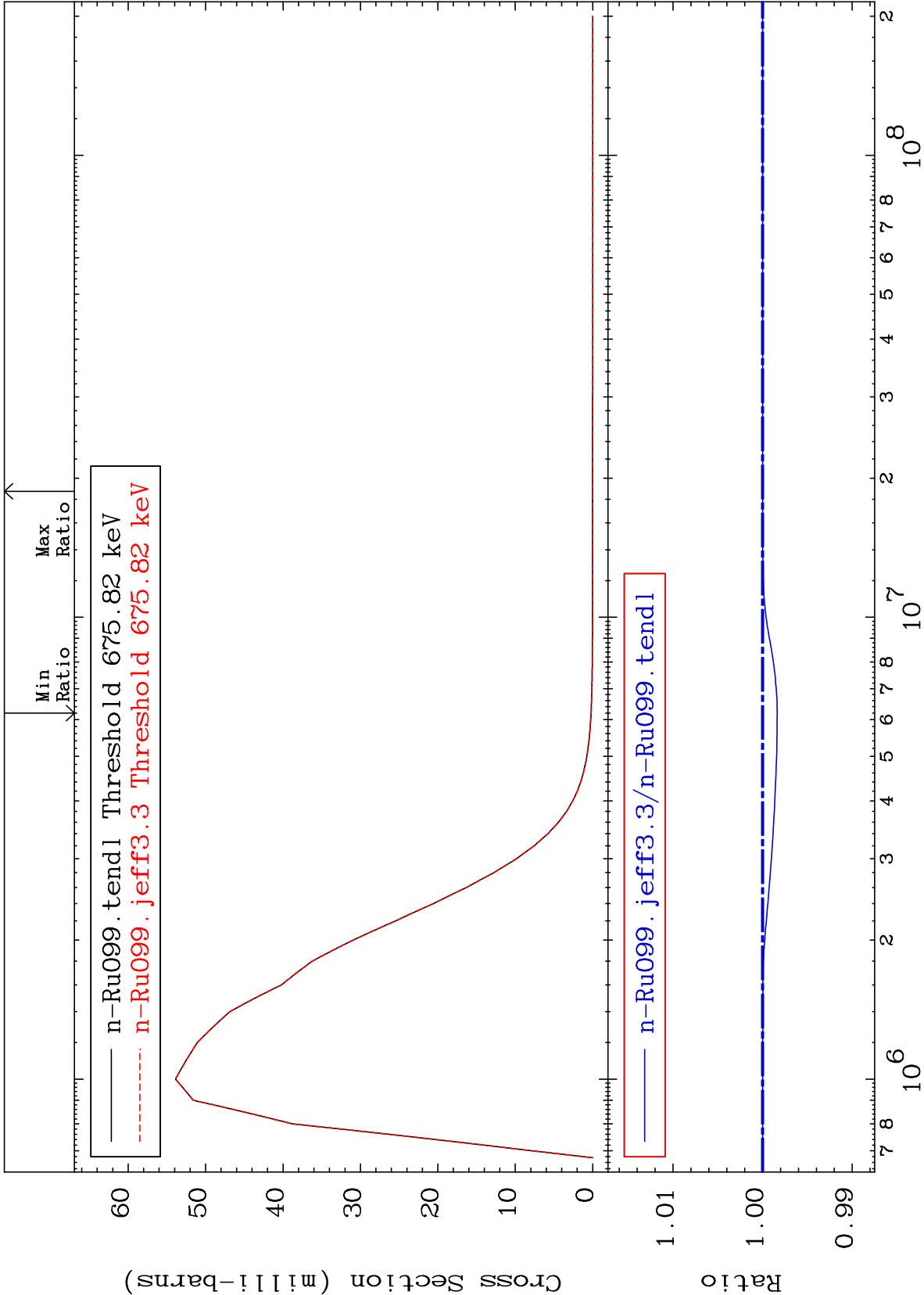
MAT 4434

MT= 57 (n,n') Level

44-Ru-99

-0.163 To 0.000 %

Cross Section



27

Incident Energy (eV)

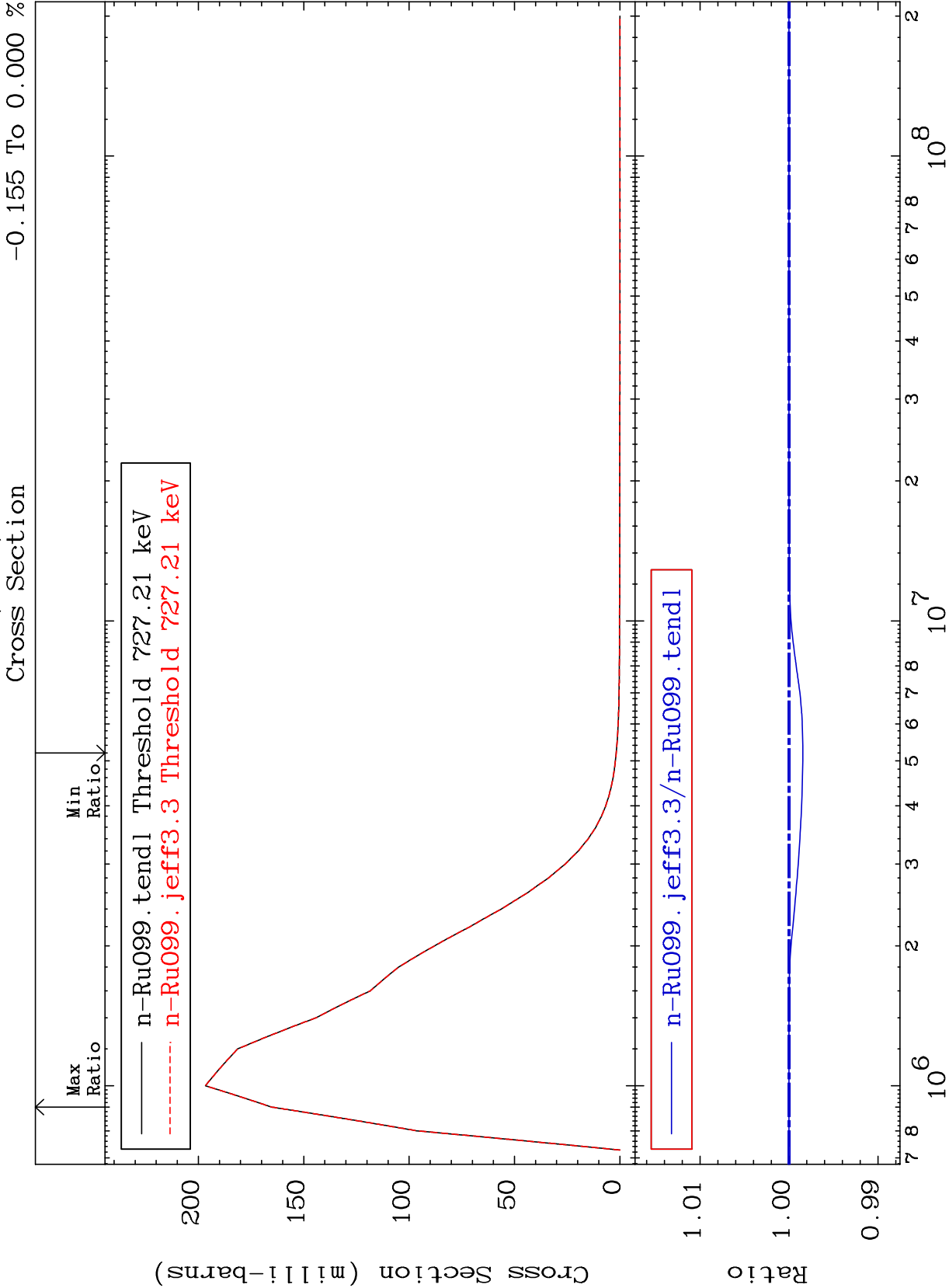
44-Ru-99

MAT 4434

MT= 58 (n,n') Level

44-Ru-99

-0.155 To 0.000 %



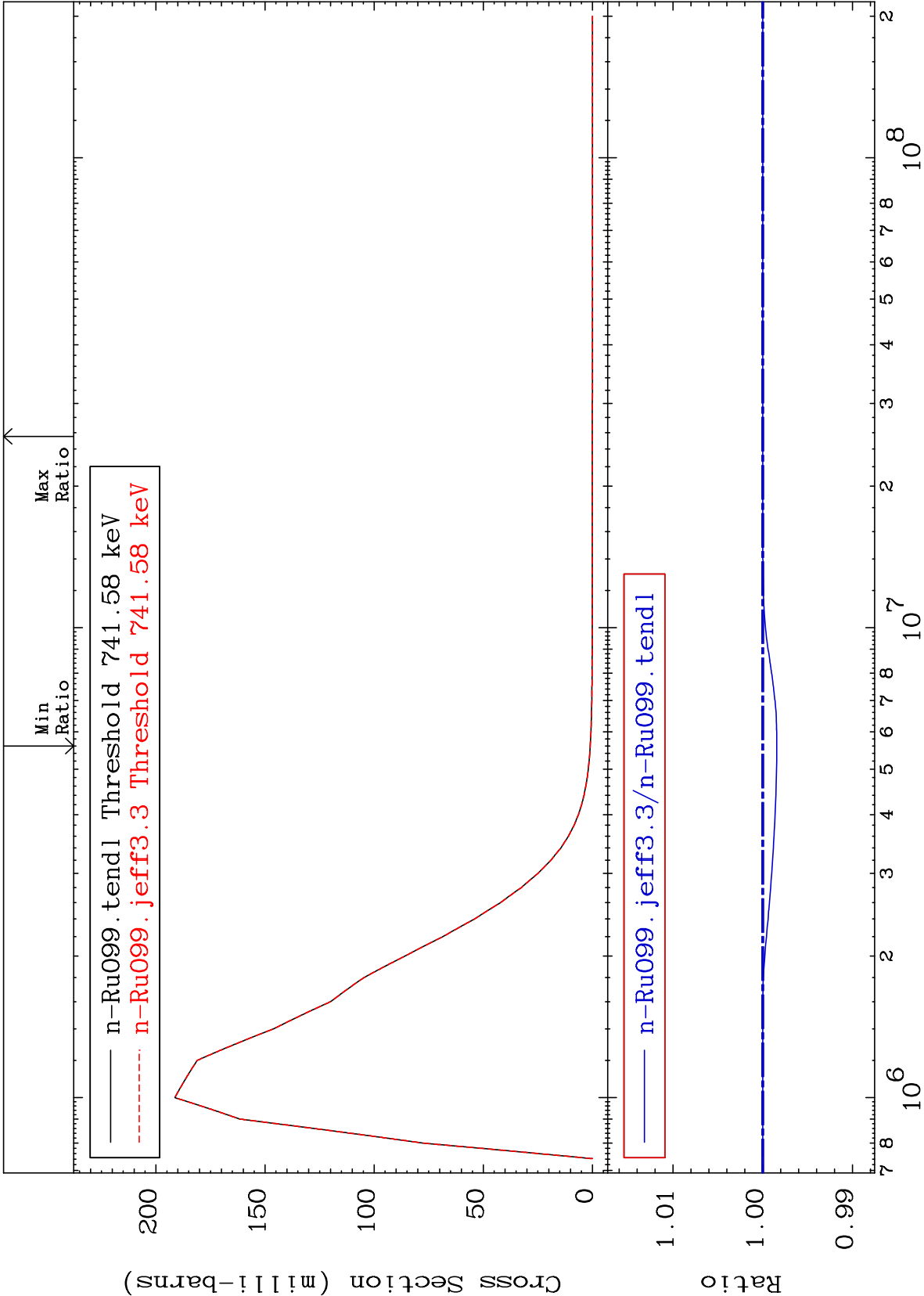
MAT 4434

MT= 59 (n,n') Level

44-Ru-99

-0.157 To 0.000 %

Cross Section



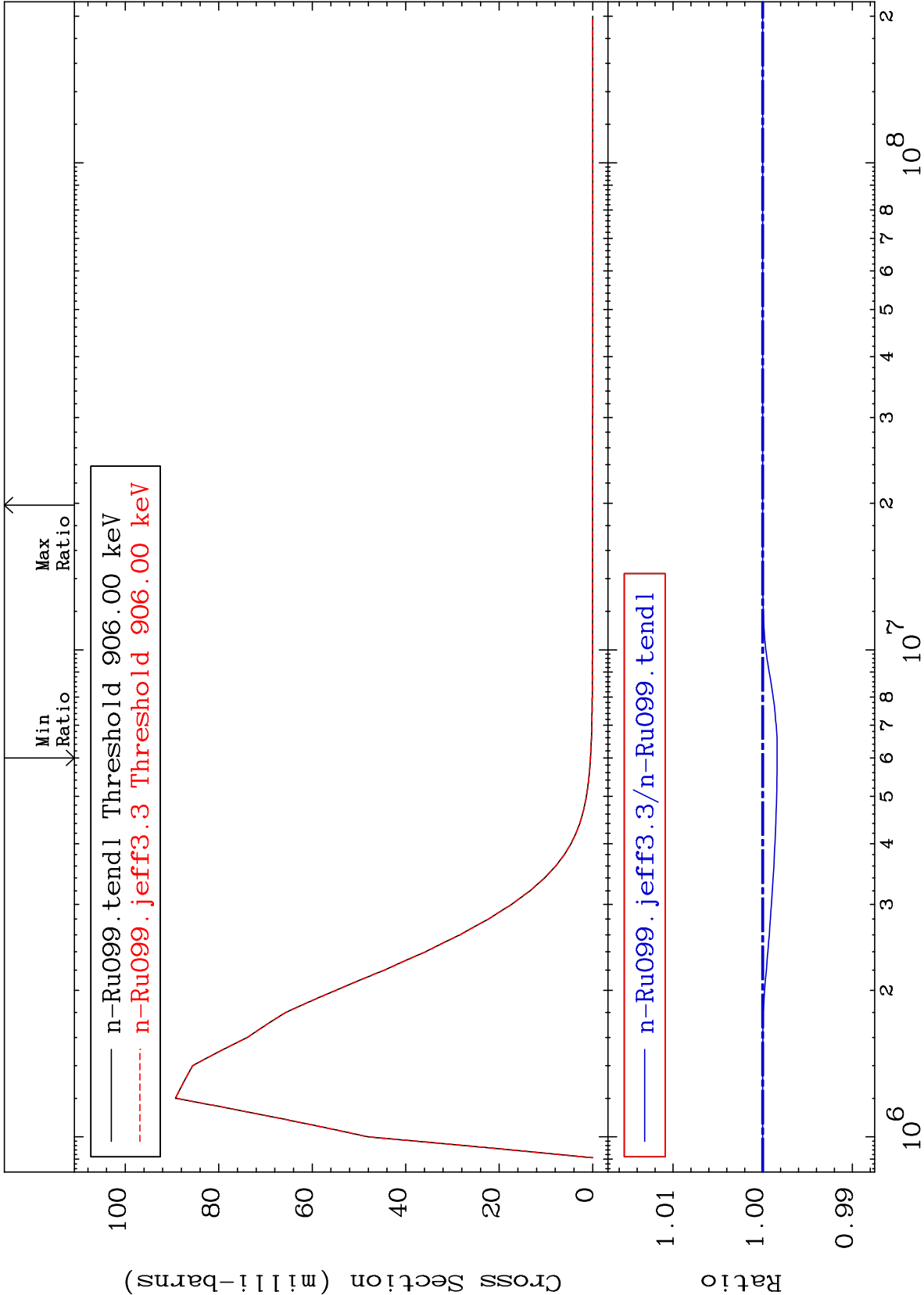
MAT 4434

MT= 60 (n,n') Level

44-Ru-99

-0.162 To 0.000 %

Cross Section



Incident Energy (eV)

44-Ru-99

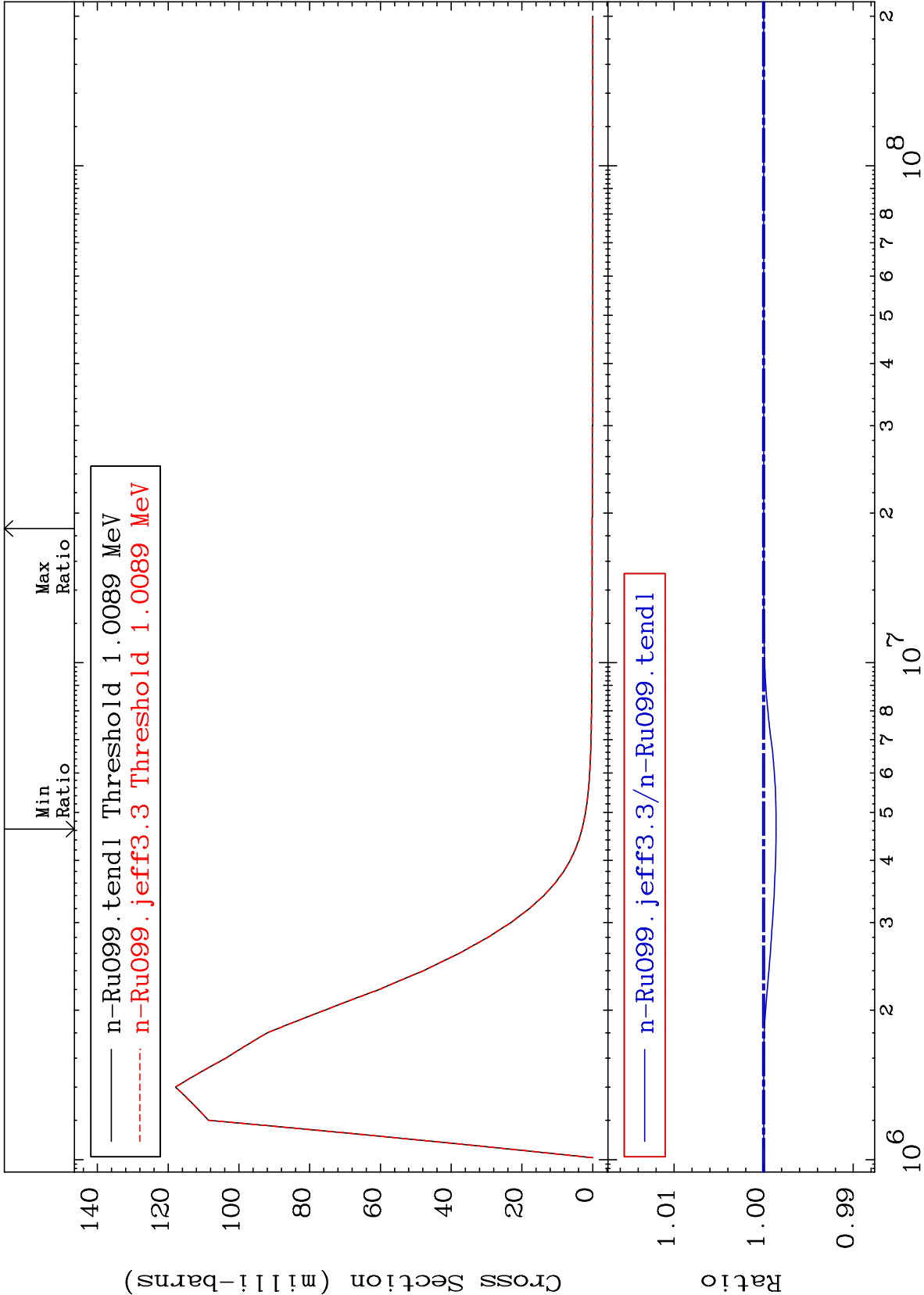
MAT 4434

MT= 61 (n,n') Level

44-Ru-99

-0.139 To 0.000 %

Cross Section



Incident Energy (eV)

44-Ru-99

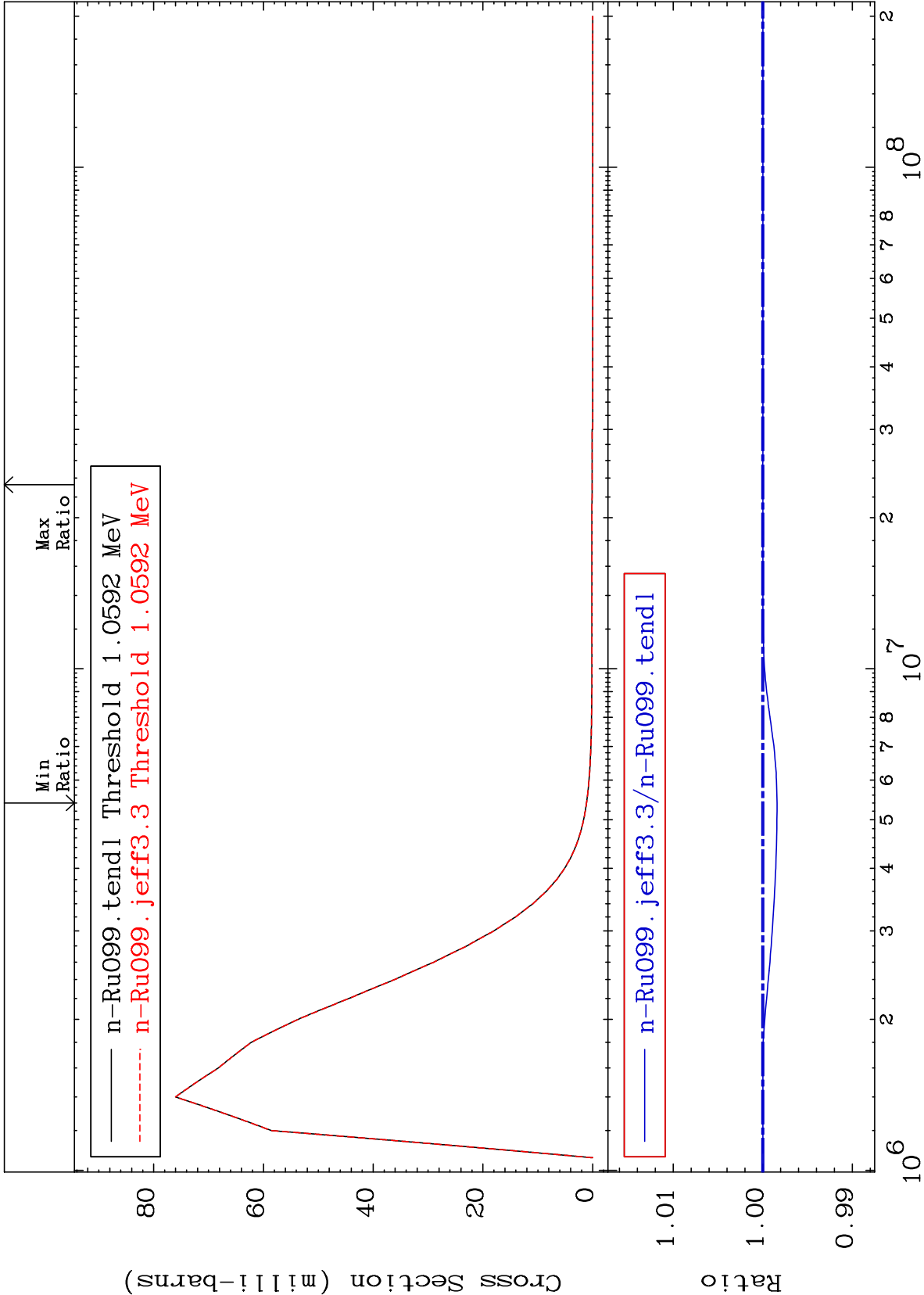
MAT 4434

MT= 62 (n,n') Level

44-Ru-99

-0.159 To 0.000 %

Cross Section

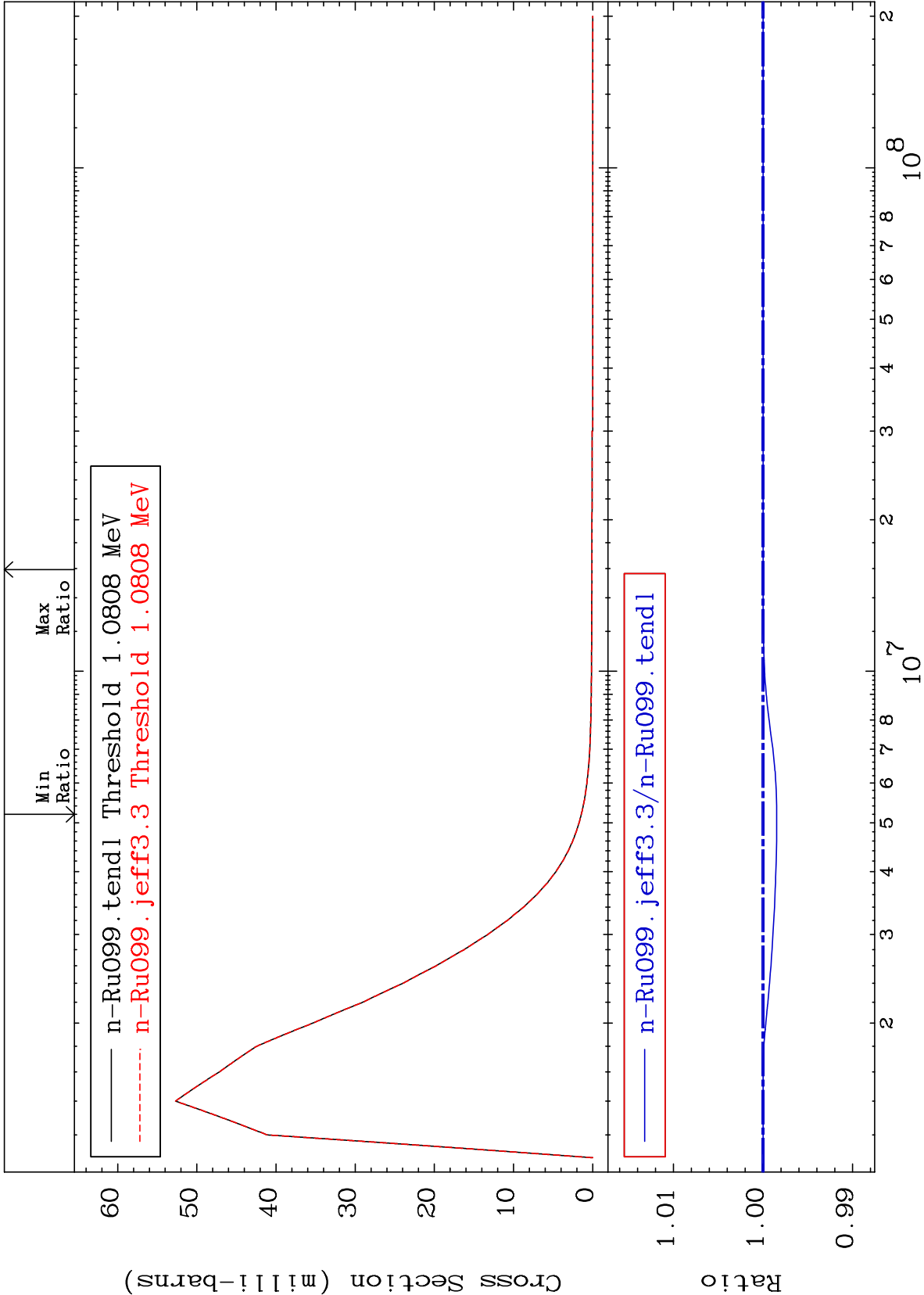


Incident Energy (eV)

44-Ru-99

-0.153 To 0.000 %

Cross Section



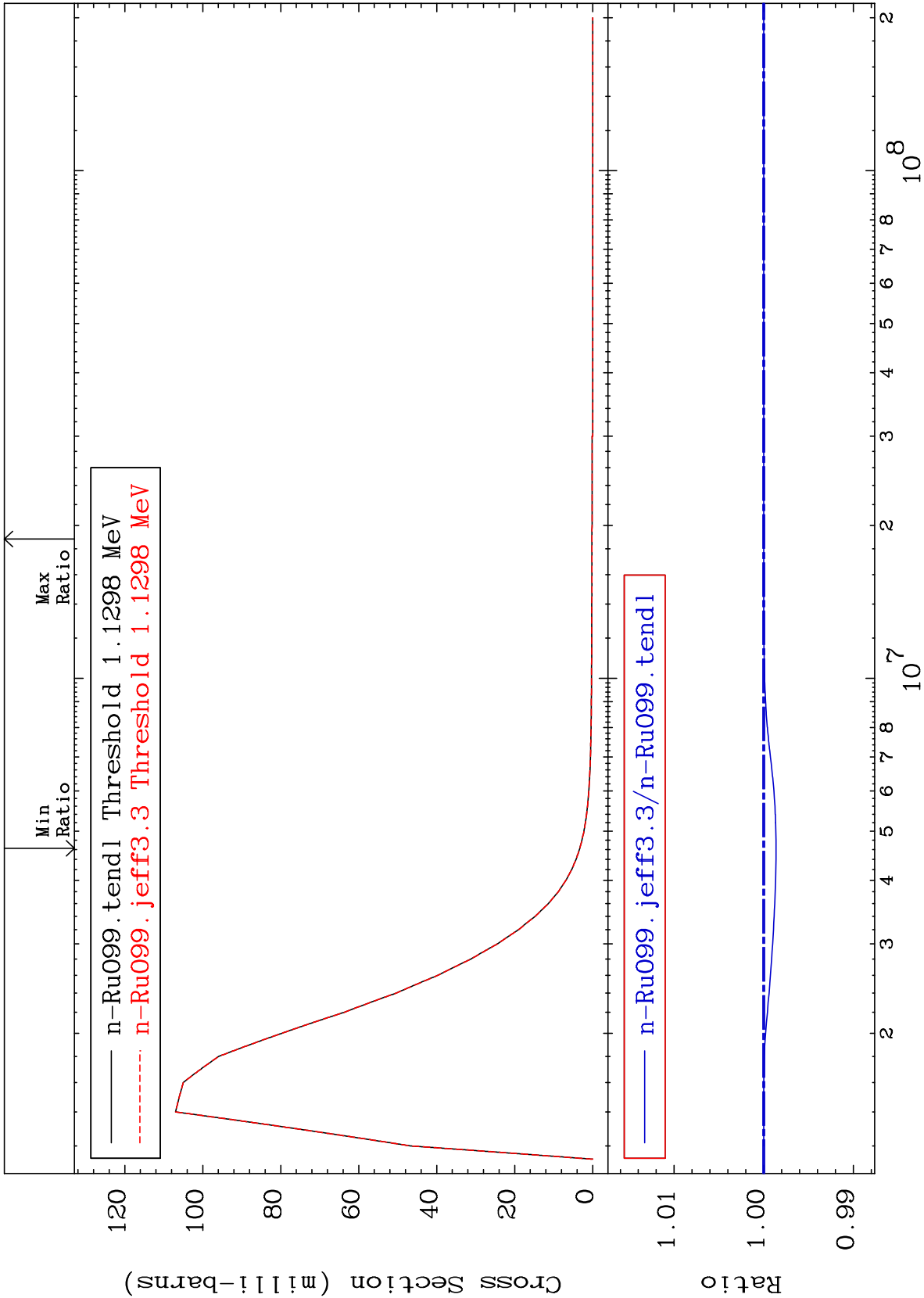
MAT 4434

MT= 64 (n,n') Level

44-Ru-99

-0.138 To 0.000 %

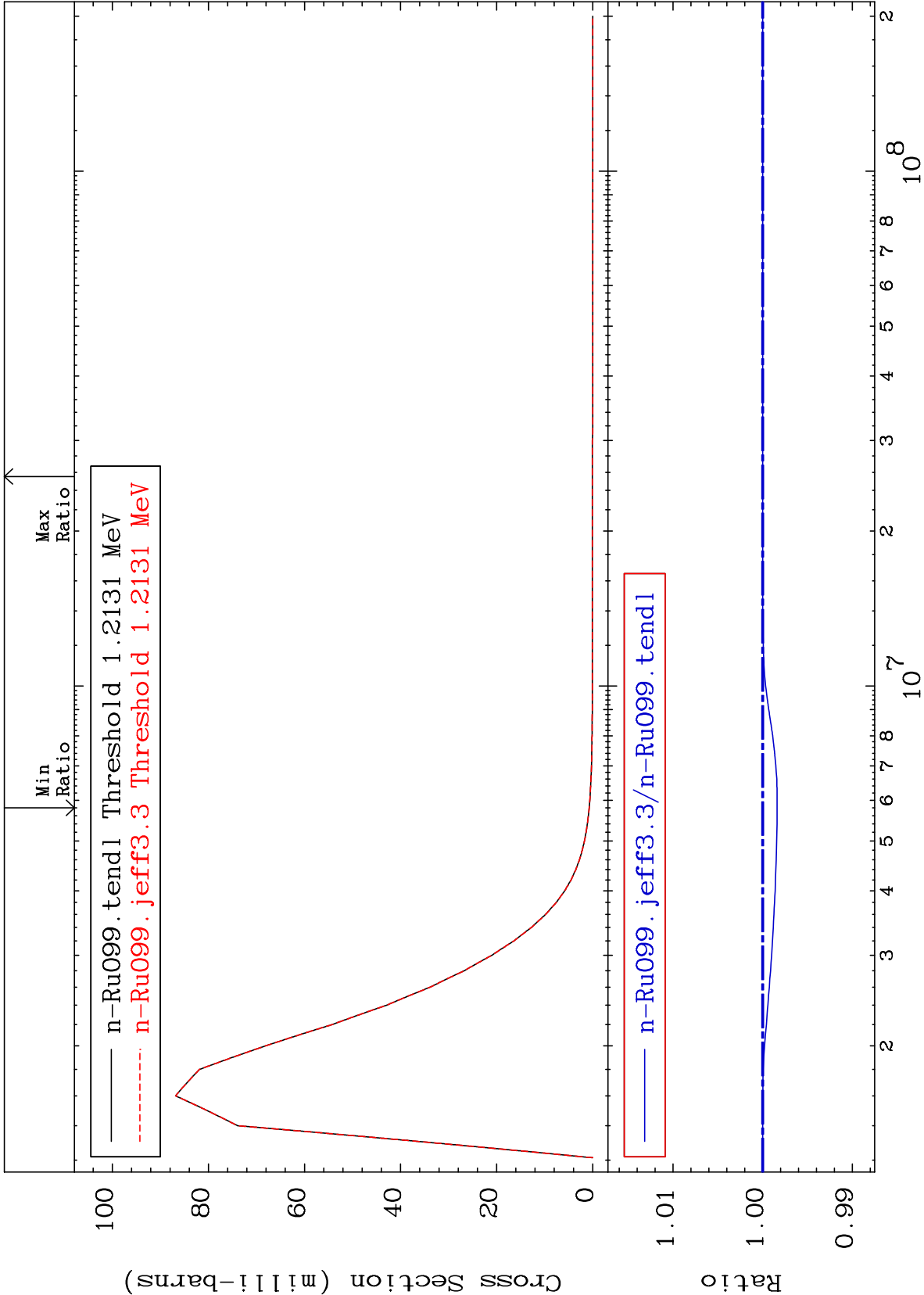
Cross Section



34

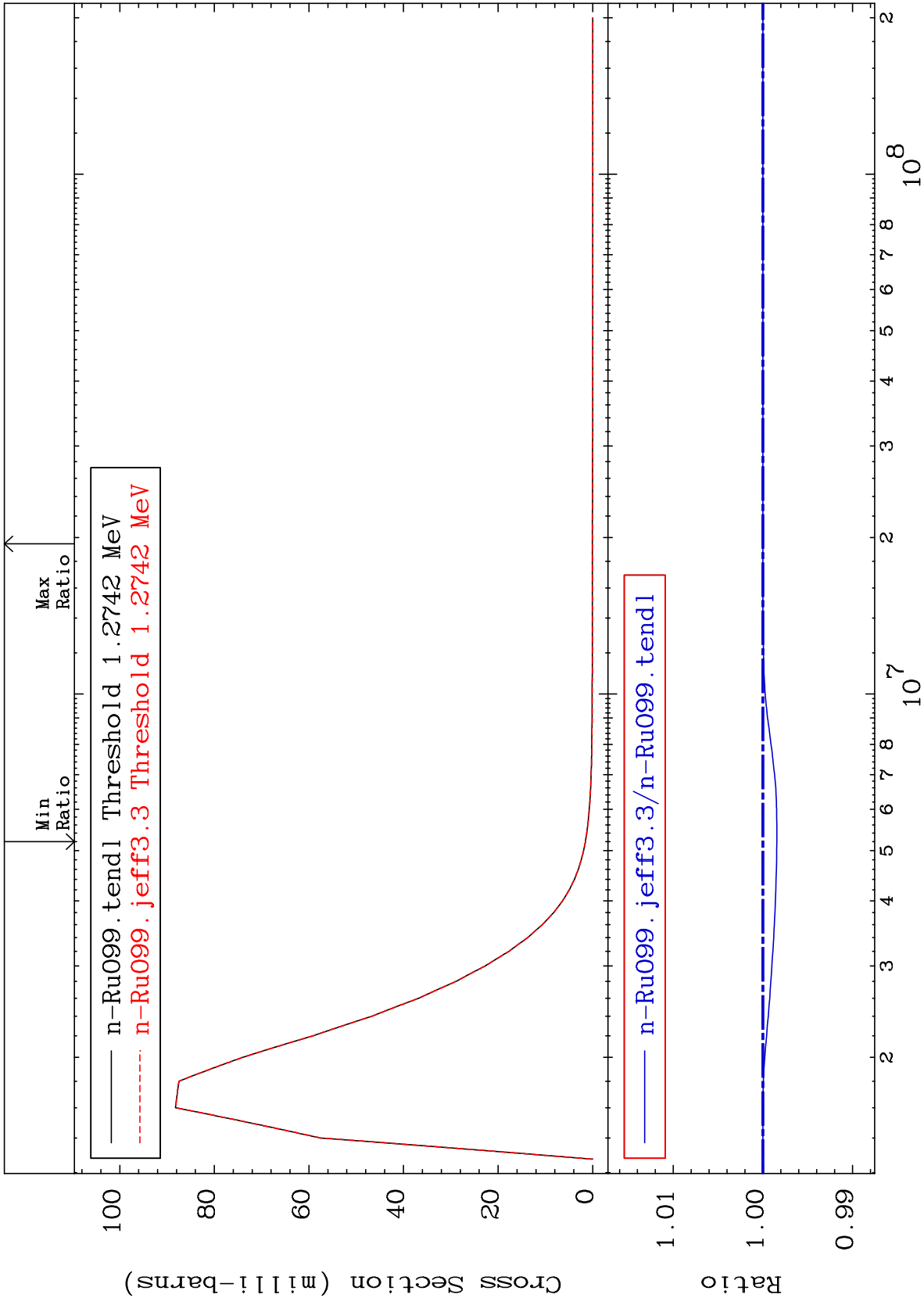
Incident Energy (eV)

44-Ru-99



-0.156 To 0.000 %

Cross Section



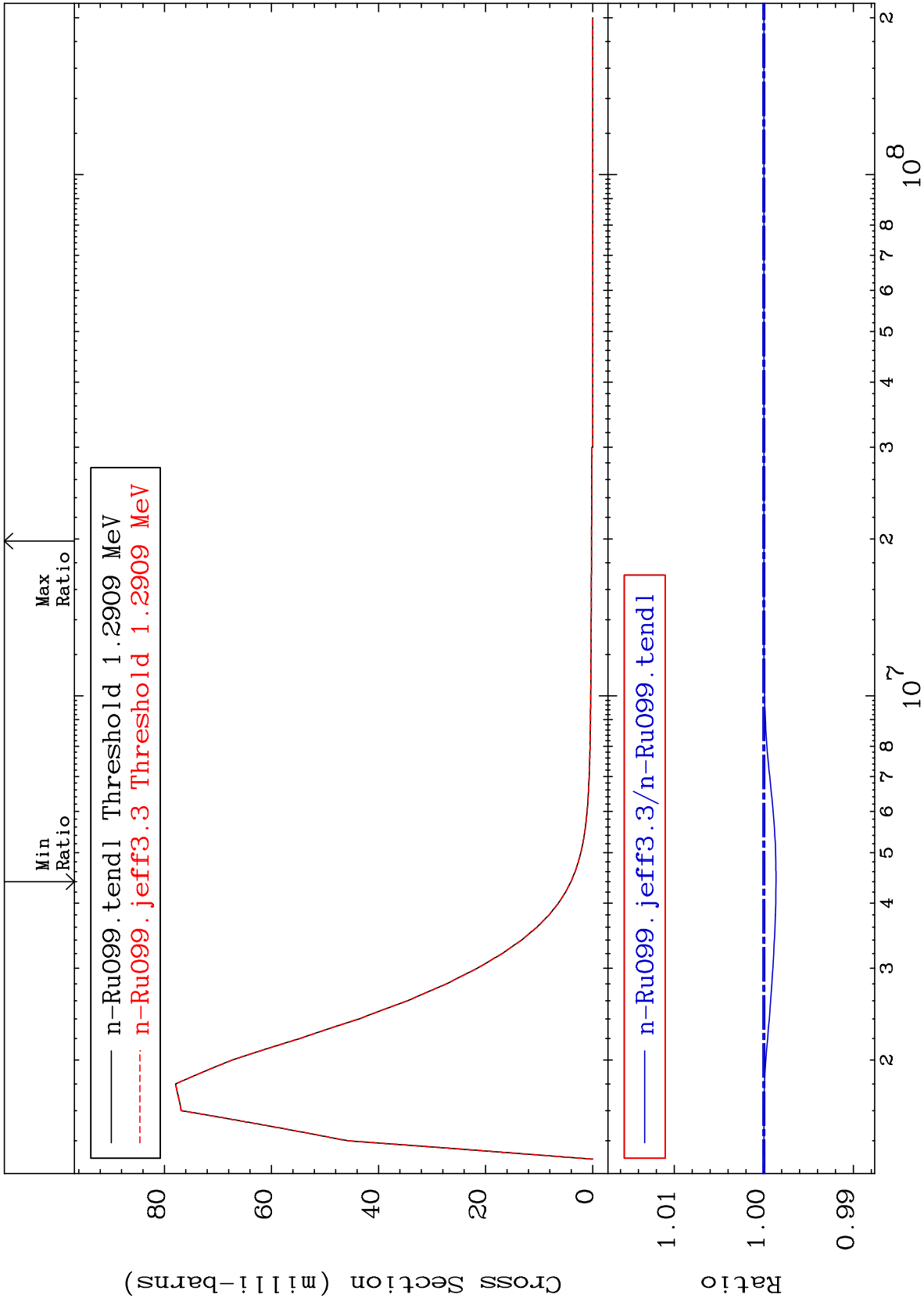
MAT 4434

MT= 67 (n,n') Level

44-Ru-99

-0.135 To 0.000 %

Cross Section



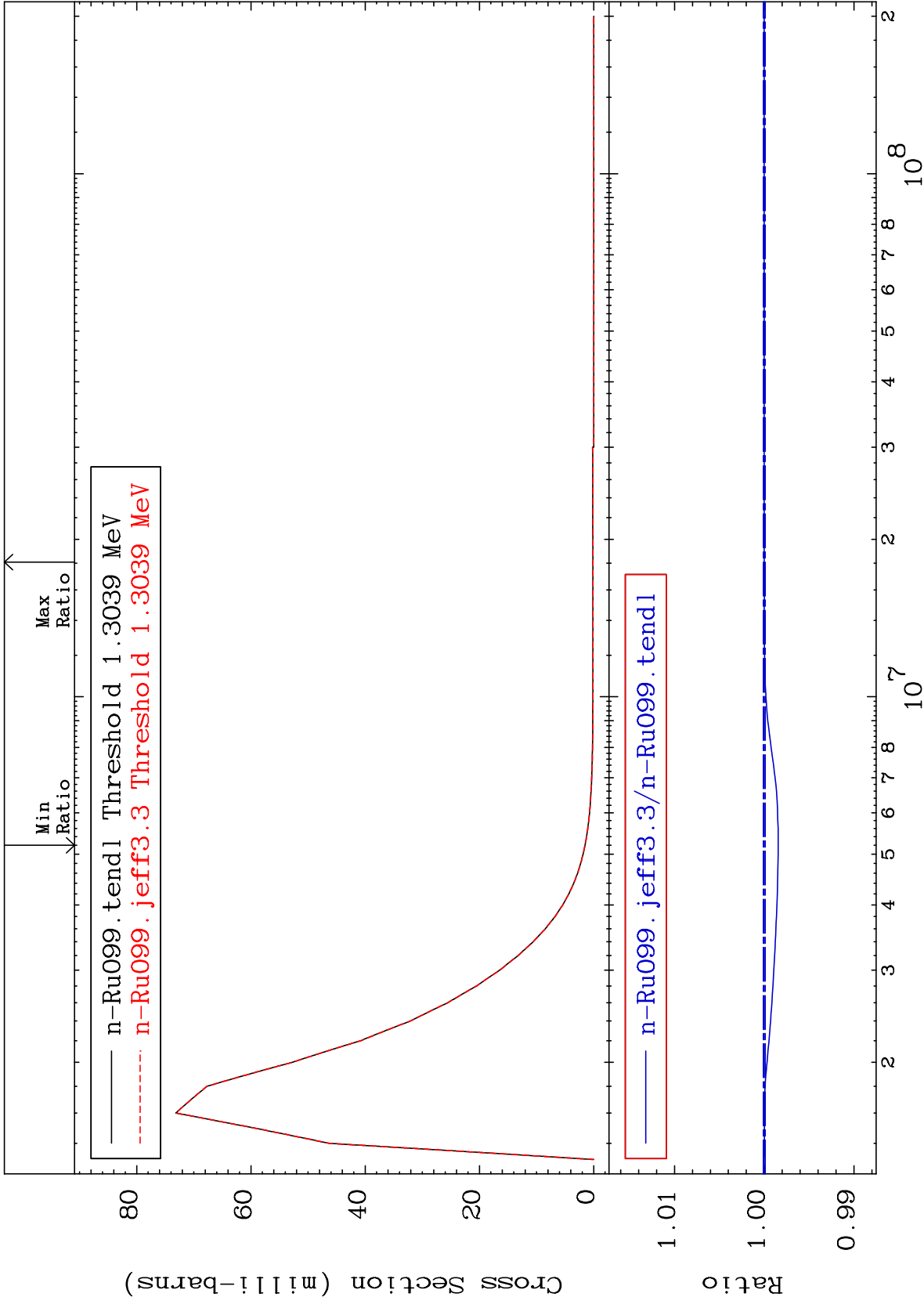
MAT 4434

MT= 68 (n,n') Level

44-Ru-99

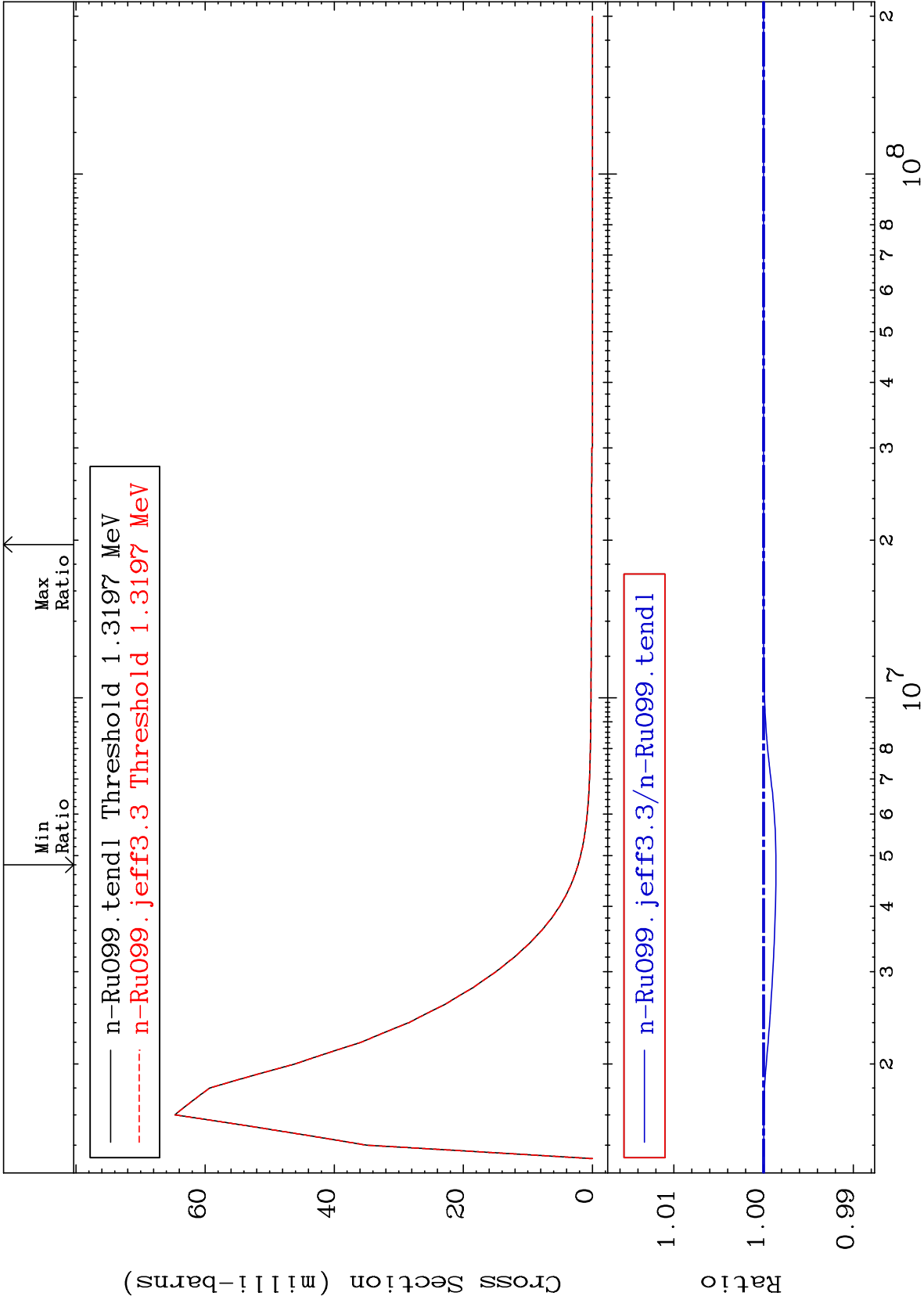
-0.155 To 0.000 %

Cross Section



-0.138 To 0.000 %

Cross Section



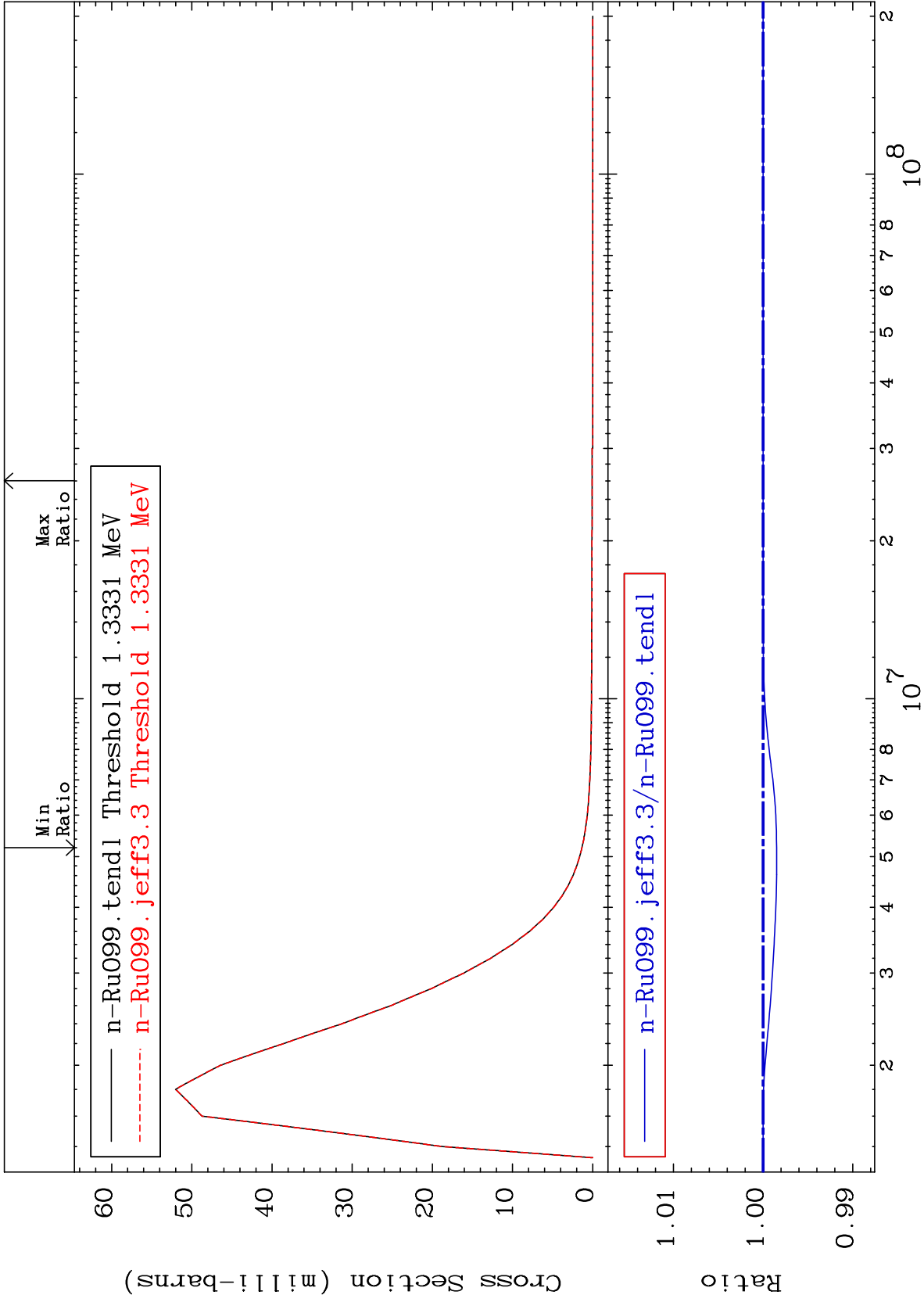
MAT 4434

MT= 70 (n,n') Level

44-Ru-99

-0.152 To 0.000 %

Cross Section



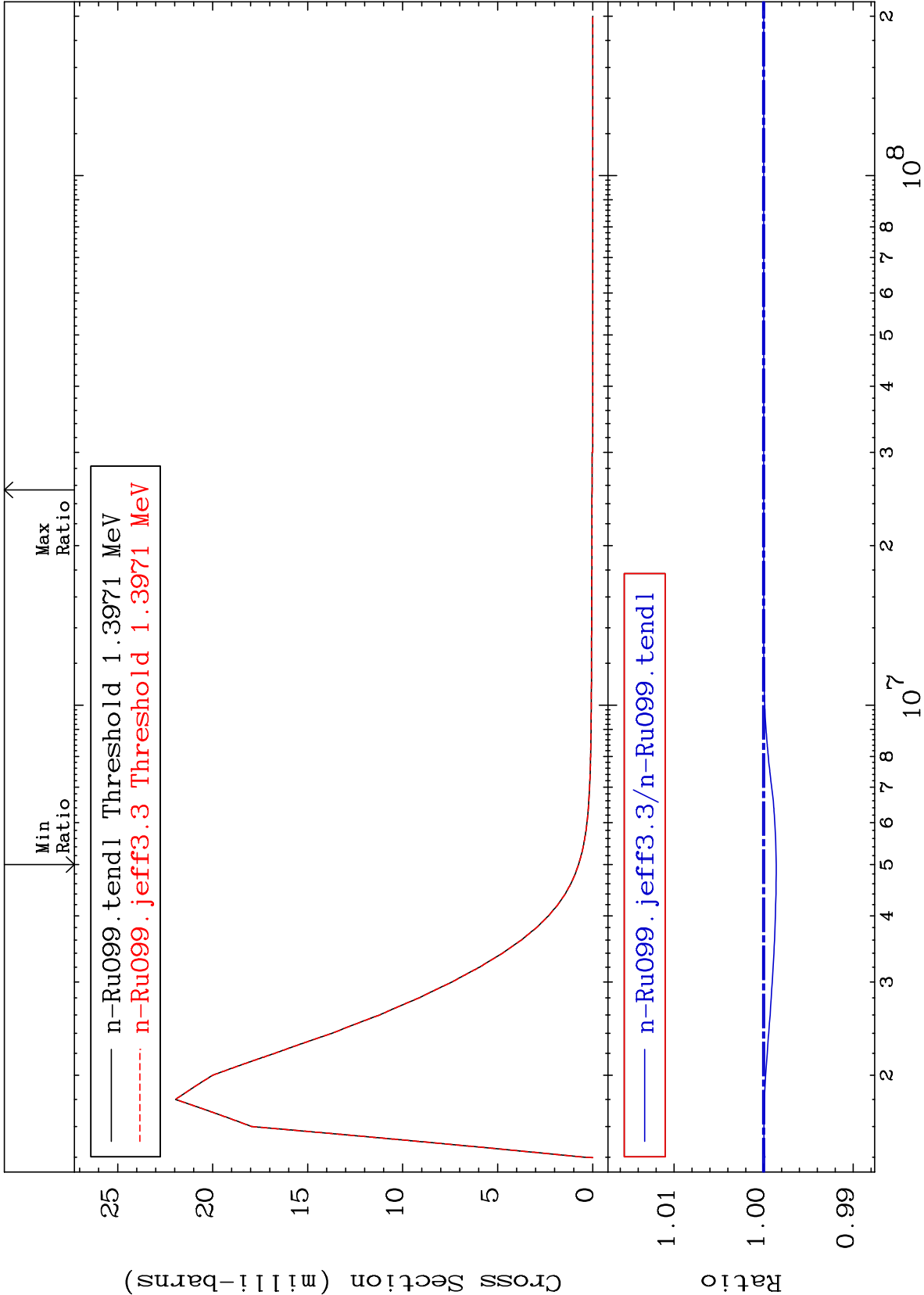
MAT 4434

MT= 71 (n,n') Level

44-Ru-99

-0.140 To 0.000 %

Cross Section



41

Incident Energy (eV)

44-Ru-99

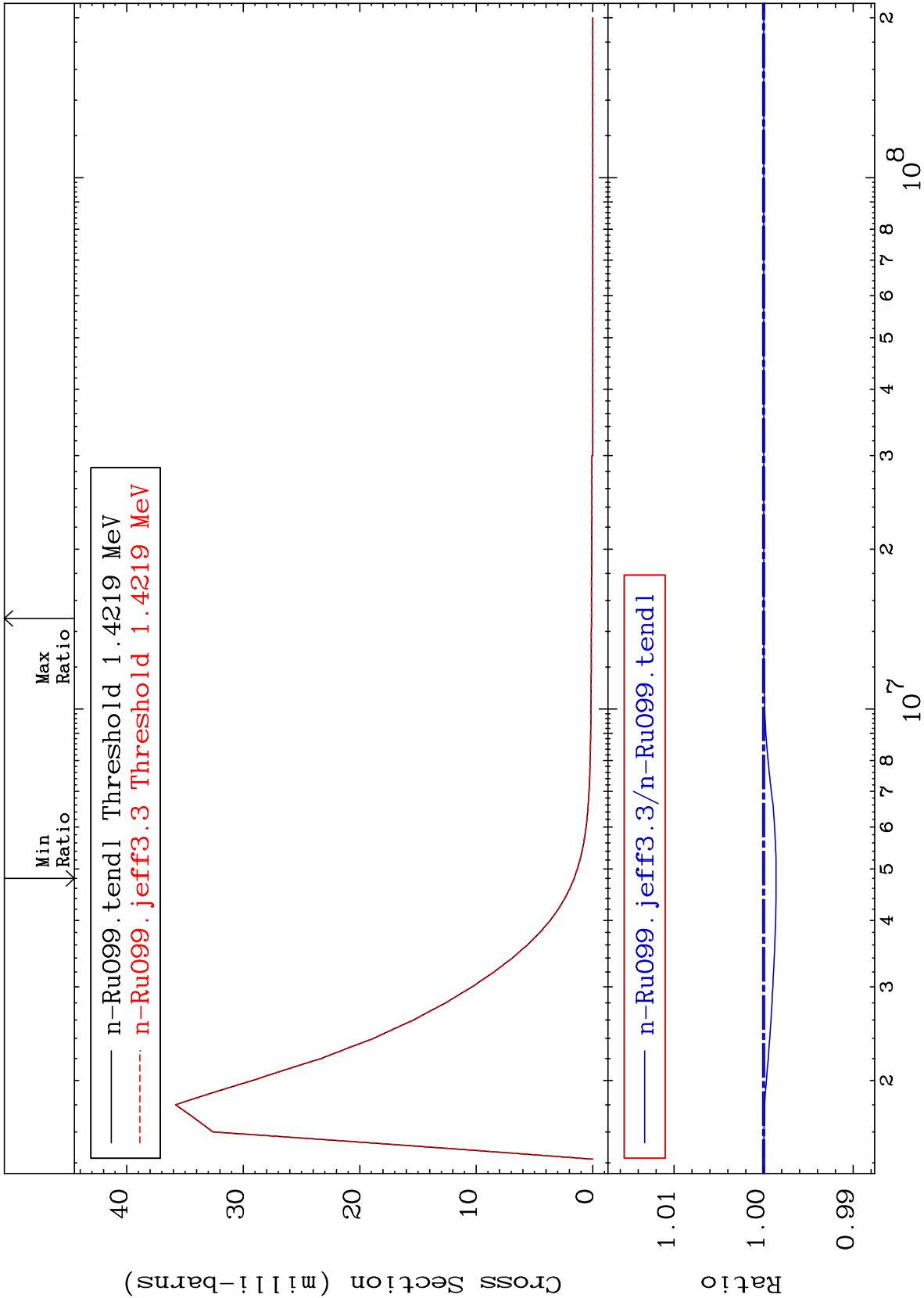
MAT 4434

MT= 72 (n,n') Level

44-Ru-99

-0.139 To 0.000 %

Cross Section



42

Incident Energy (eV)

44-Ru-99

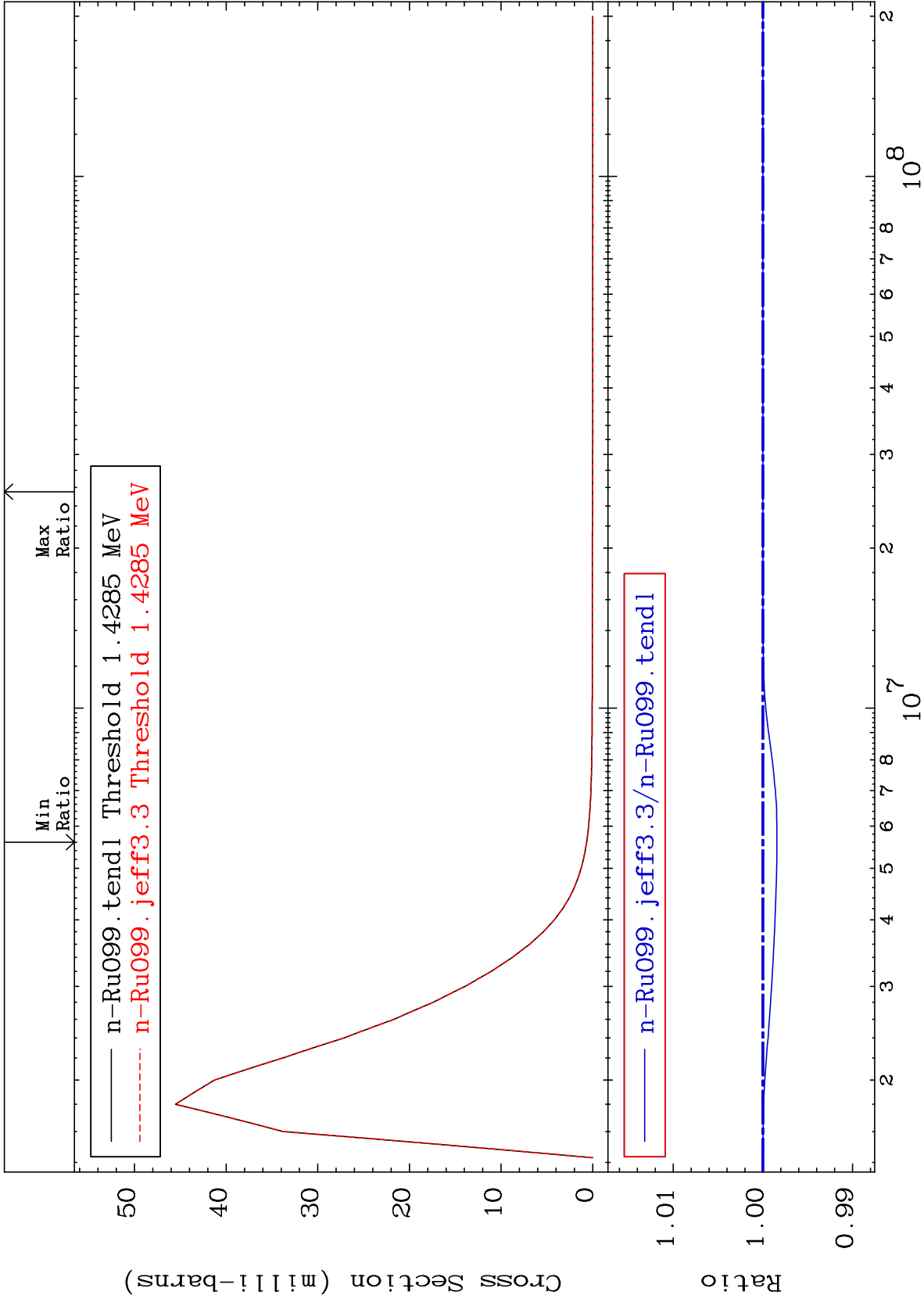
MAT 4434

MT= 73 (n,n') Level

44-Ru-99

-0.157 To 0.000 %

Cross Section



43

Incident Energy (eV)

44-Ru-99

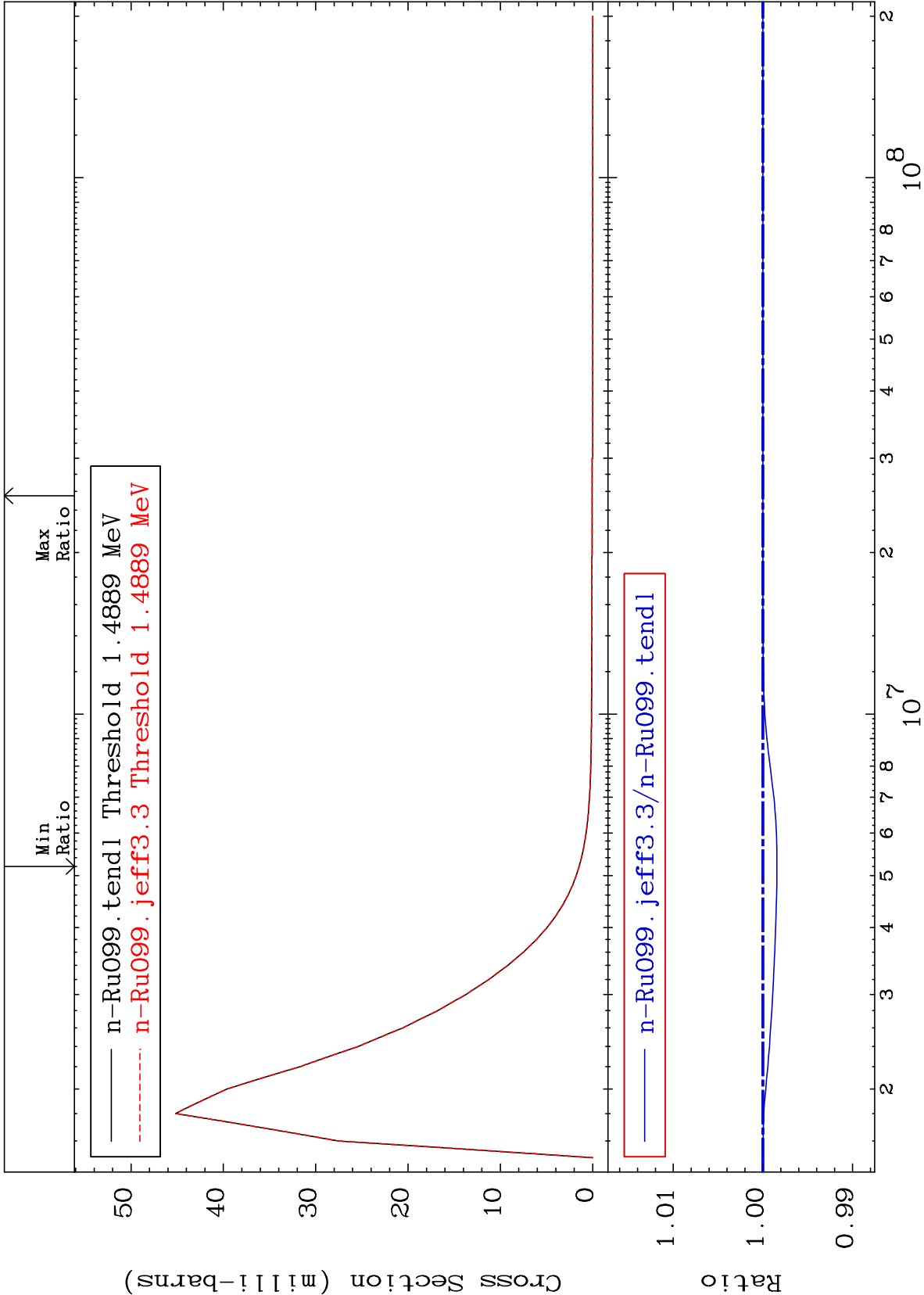
MAT 4434

MT= 74 (n,n') Level

44-Ru-99

-0.156 To 0.000 %

Cross Section



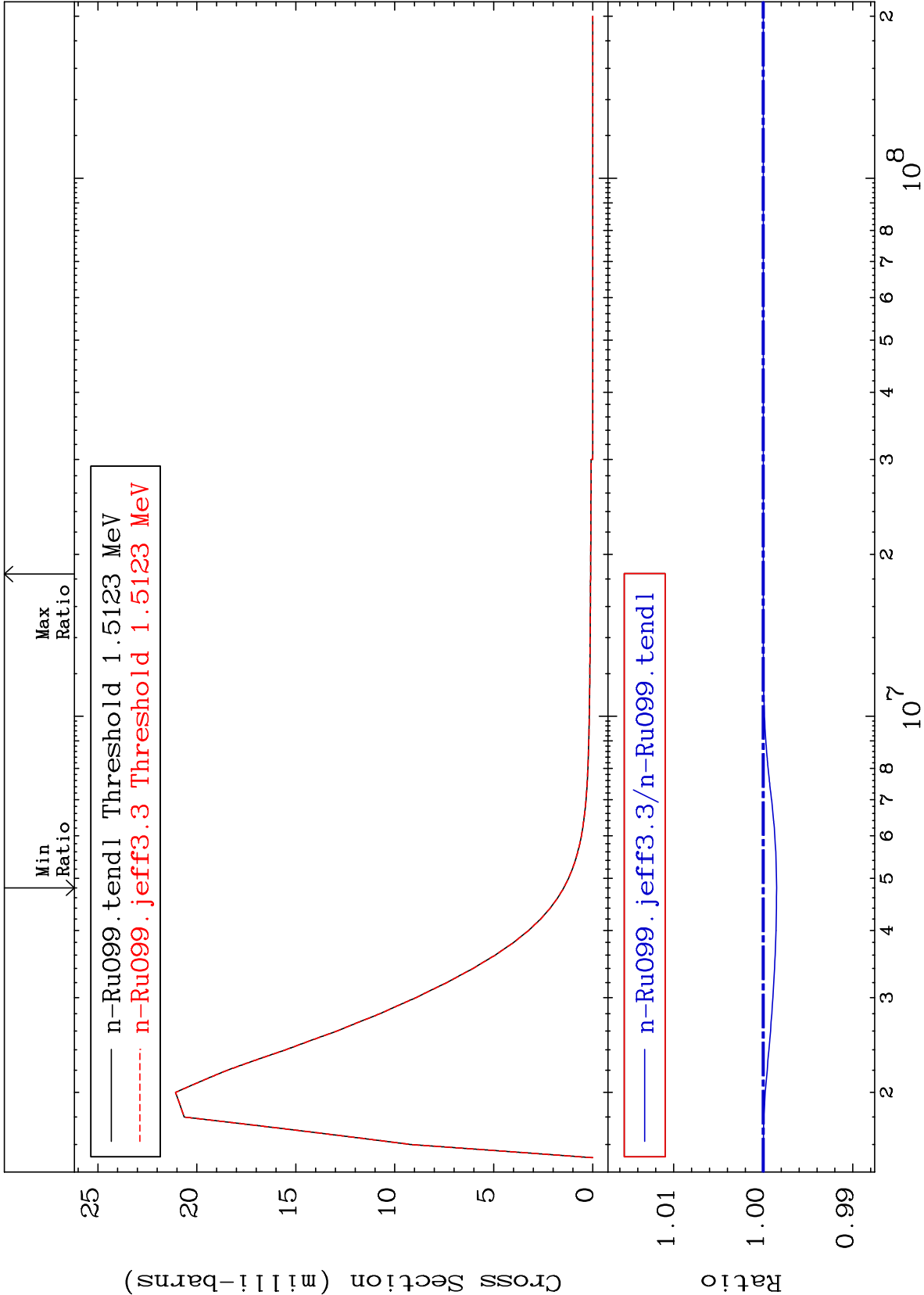
MAT 4434

MT= 75 (n,n') Level

44-Ru-99

-0.149 To 0.000 %

Cross Section



45

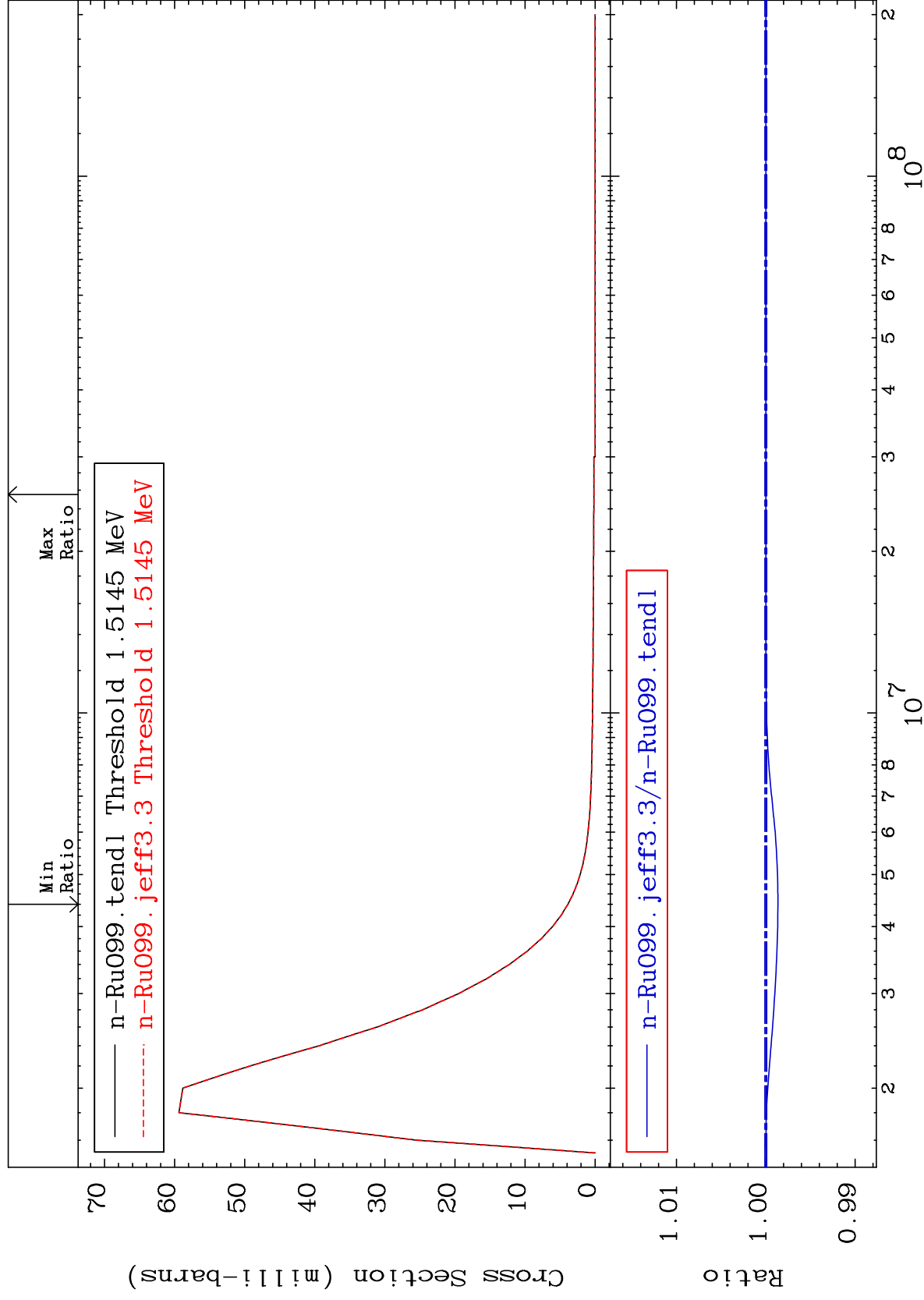
Incident Energy (eV)

44-Ru-99

MAT 4434

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

44-Ru-99
-0.135 To 0.000 %



46

Incident Energy (eV)

44-Ru-99

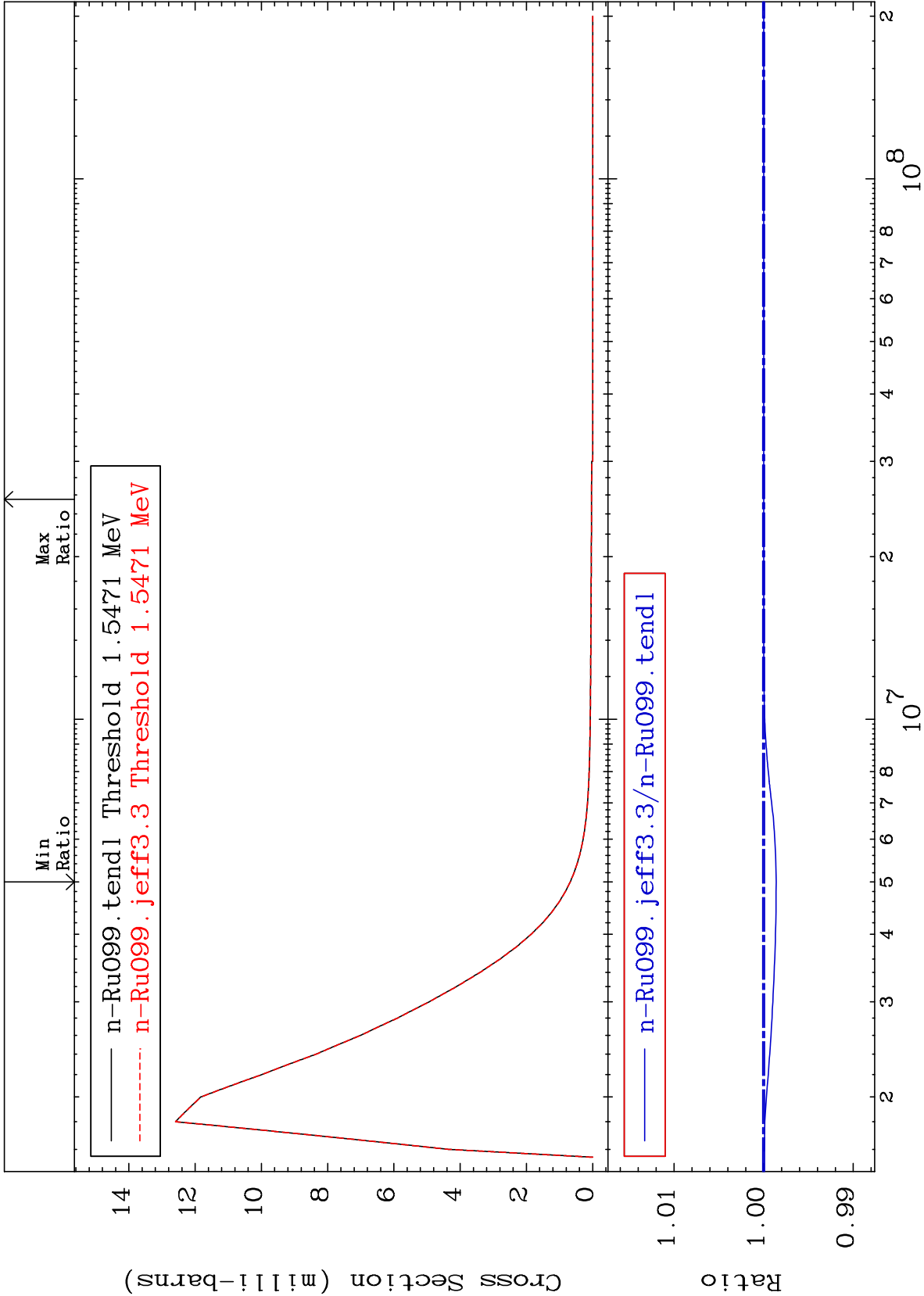
MAT 4434

MT= 77 (n,n') Level

44-Ru-99

-0.139 To 0.000 %

Cross Section



47

Incident Energy (eV)

44-Ru-99

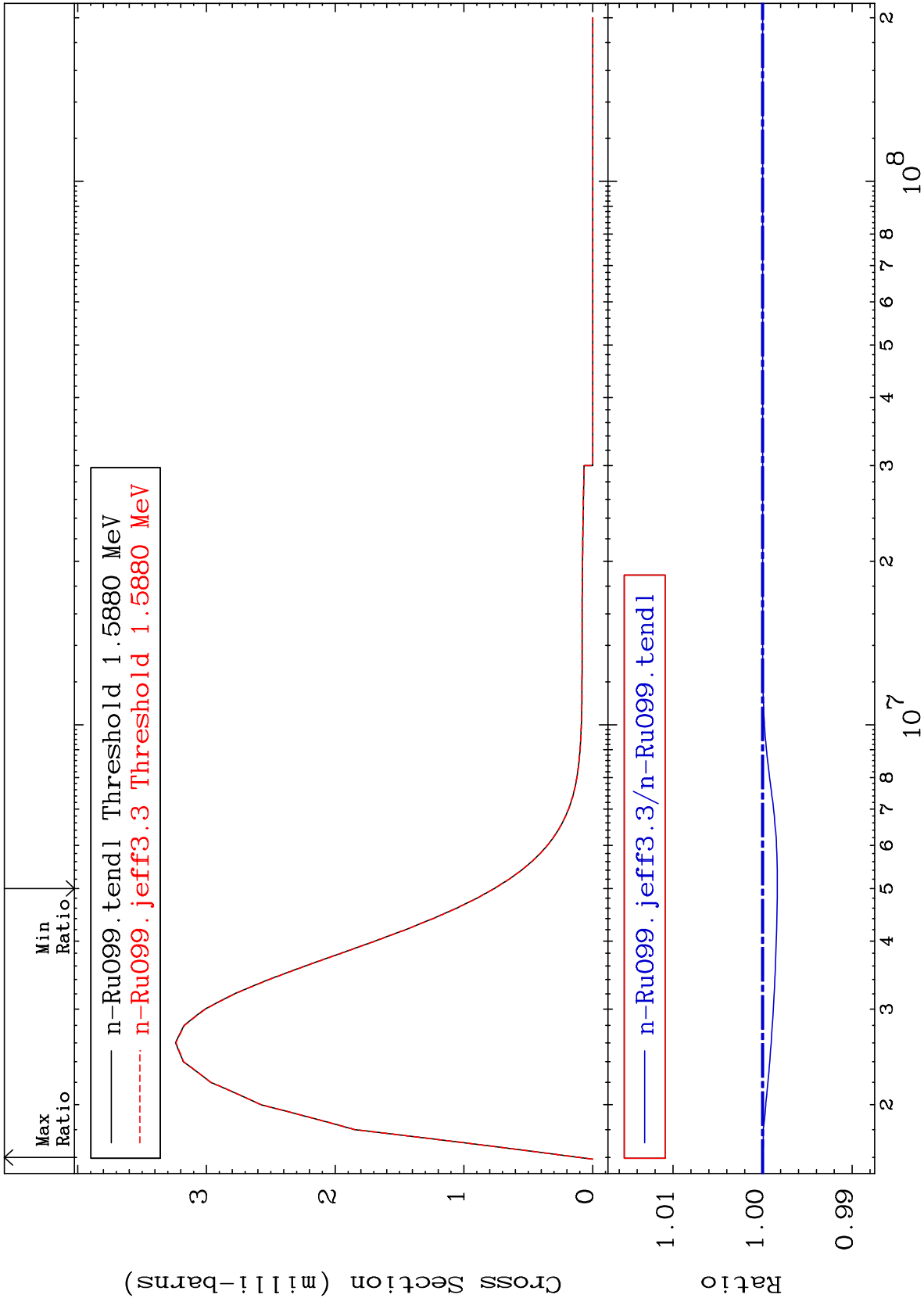
MAT 4434

MT= 78 (n,n') Level

44-Ru-99

Cross Section

-0.164 To 0.000 %



48

Incident Energy (eV)

44-Ru-99

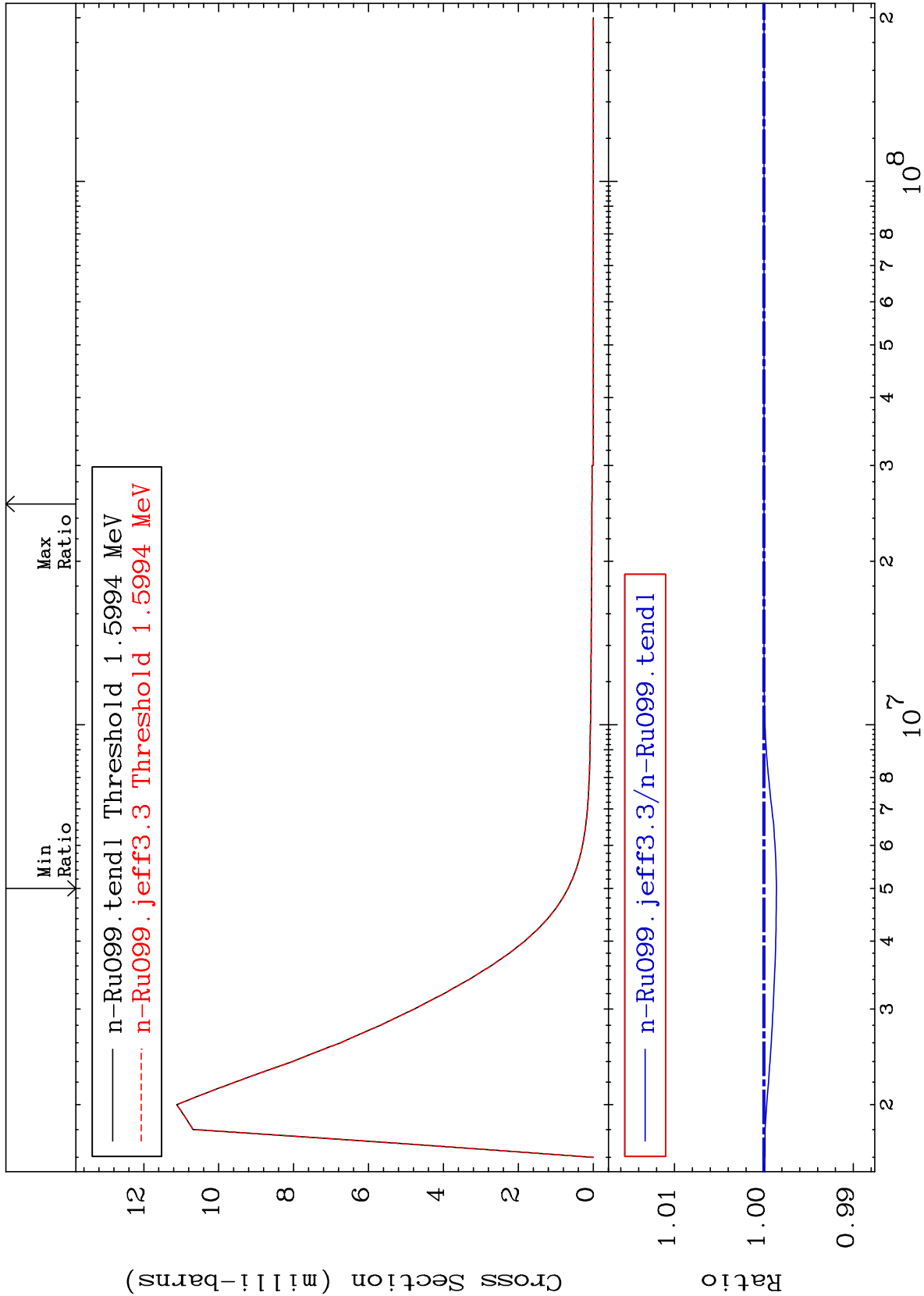
MAT 4434

MT= 79 (n,n') Level

44-Ru-99

Cross Section

-0.139 To 0.000 %



49

Incident Energy (eV)

44-Ru-99

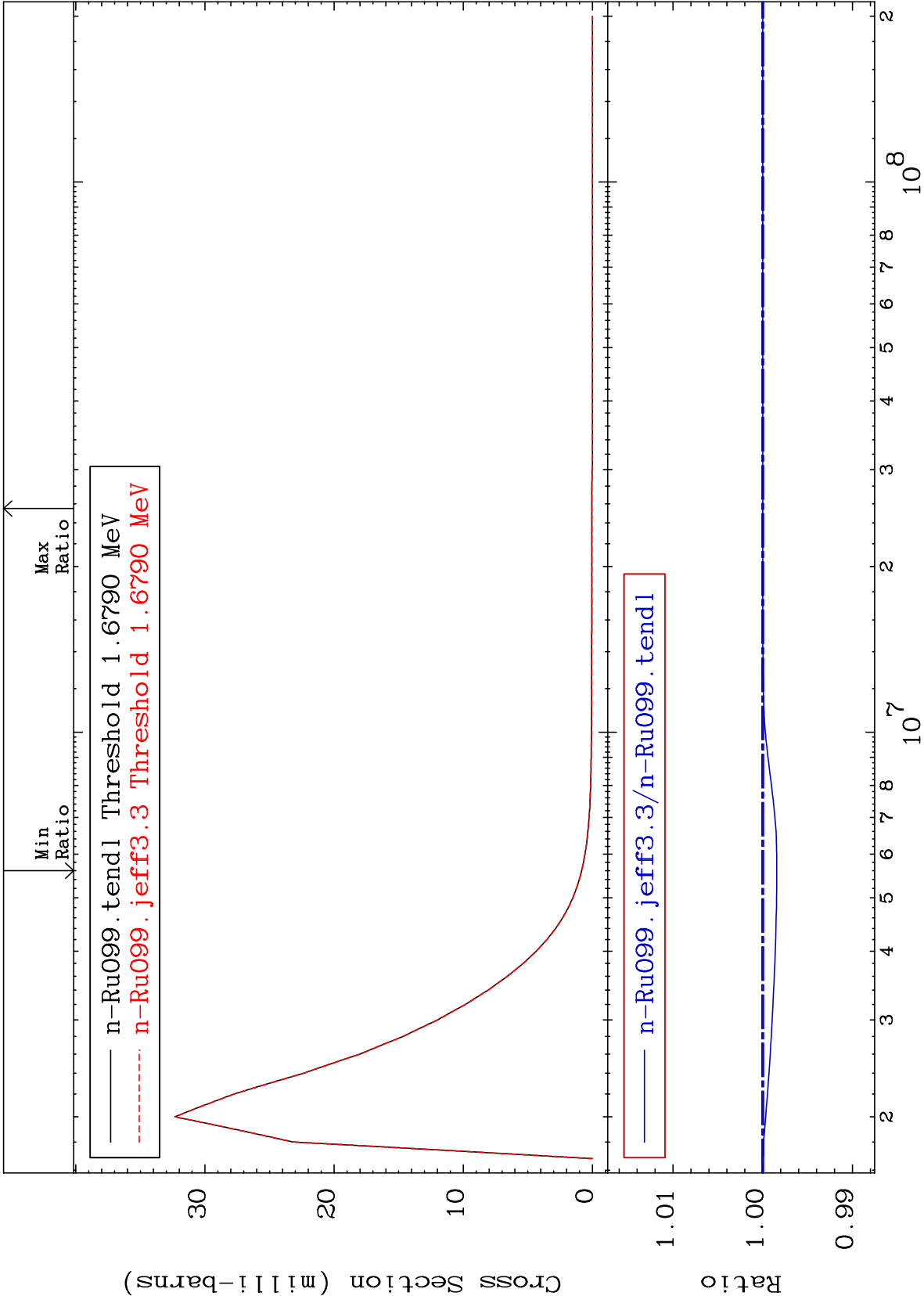
MAT 4434

MT= 80 (n,n') Level

44-Ru-99

-0.157 To 0.000 %

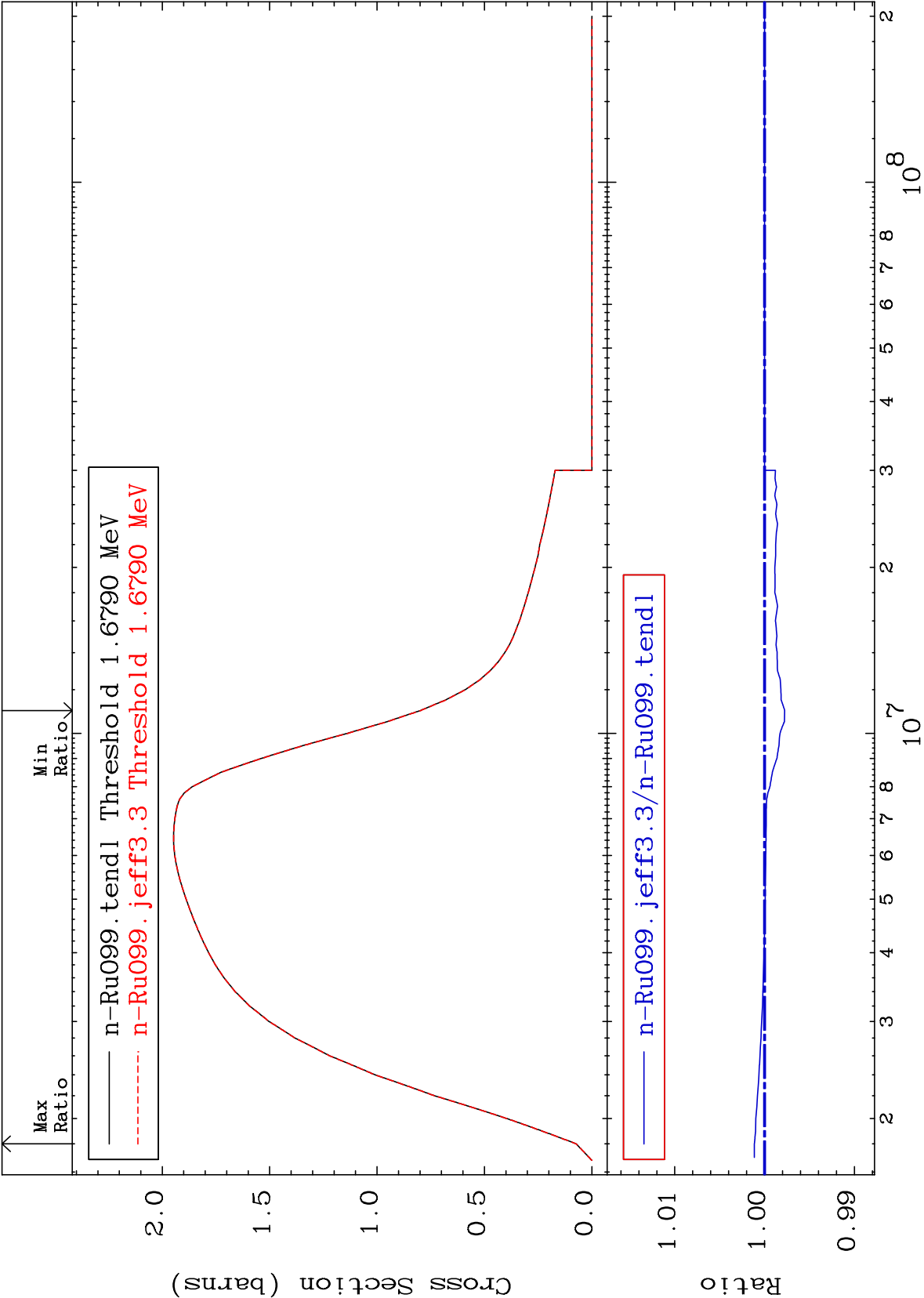
Cross Section

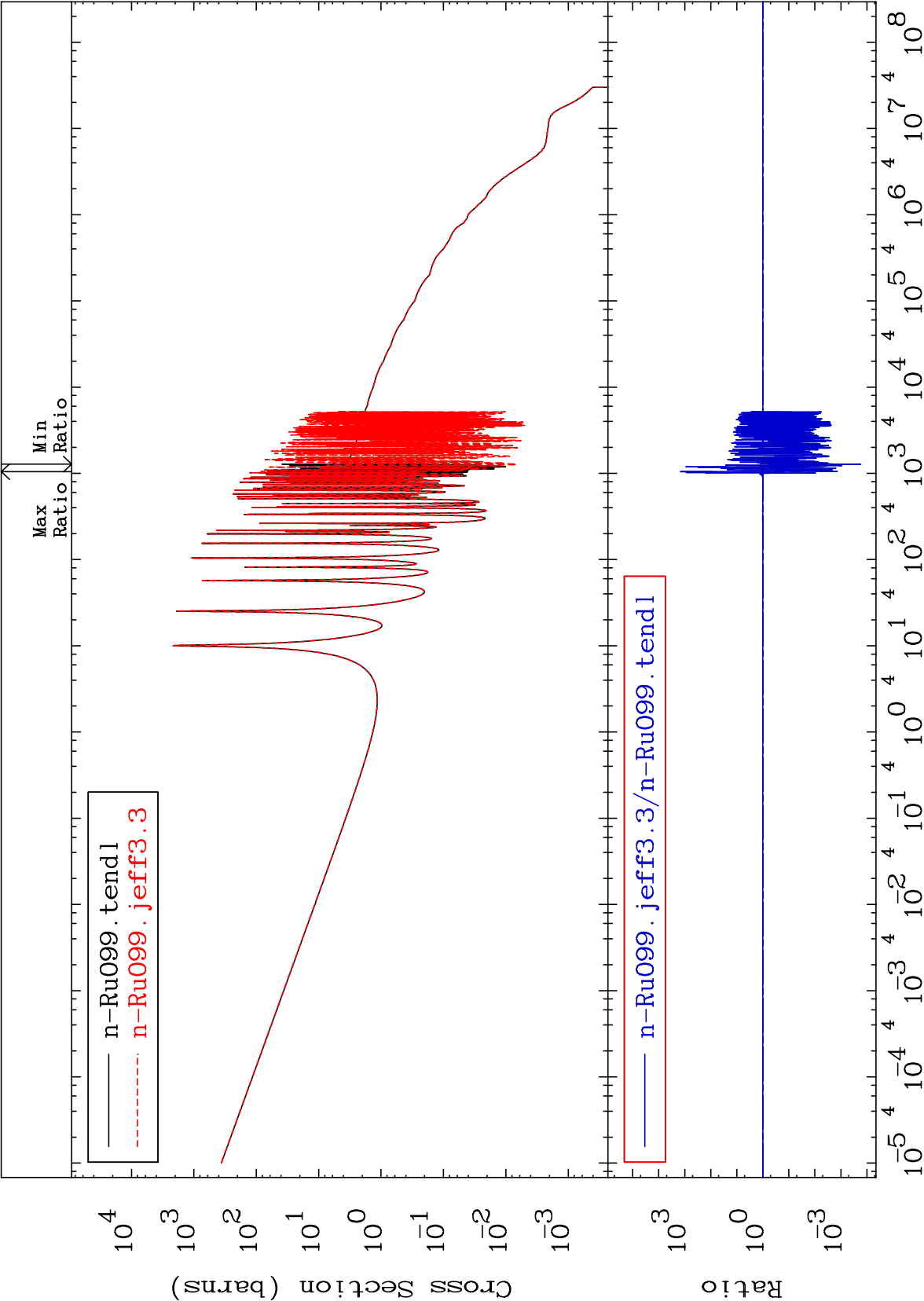


50

Incident Energy (eV)

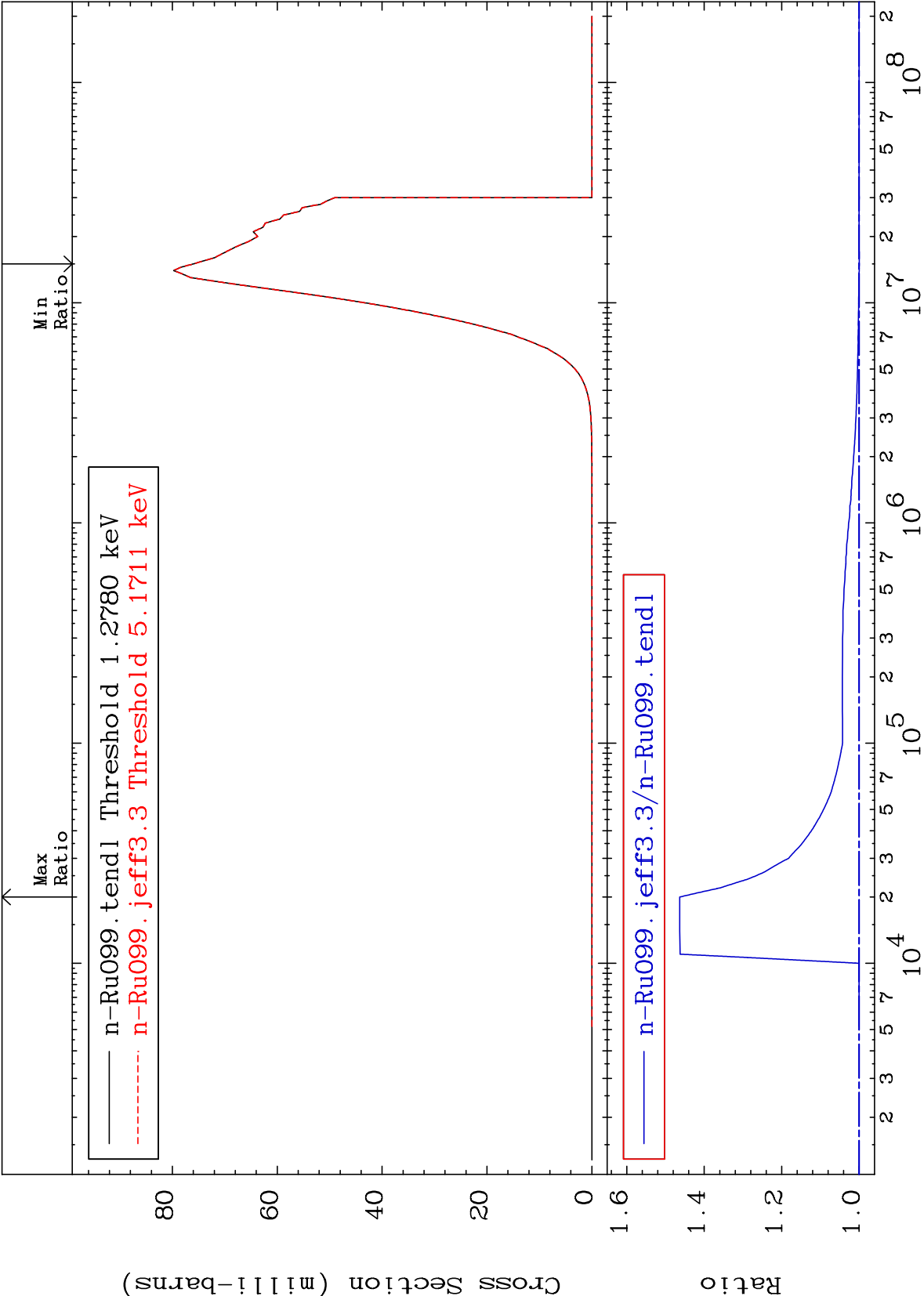
44-Ru-99





(n,p)
Cross Section

-0.029 To 46.33 %



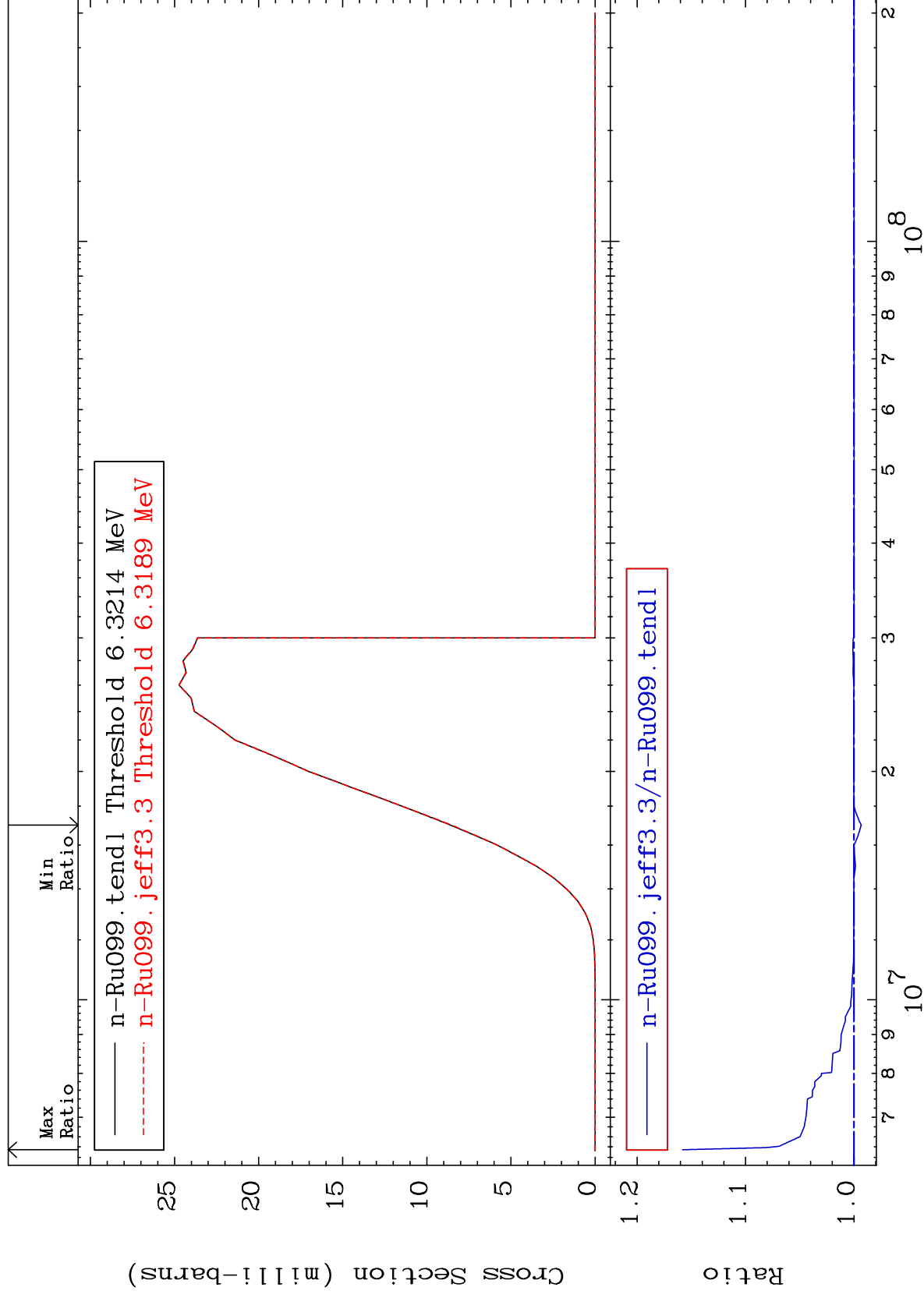
MAT 4434

(n,d)

44-Ru-99

Cross Section

-0.661 To 15.81 %



54

Incident Energy (eV)

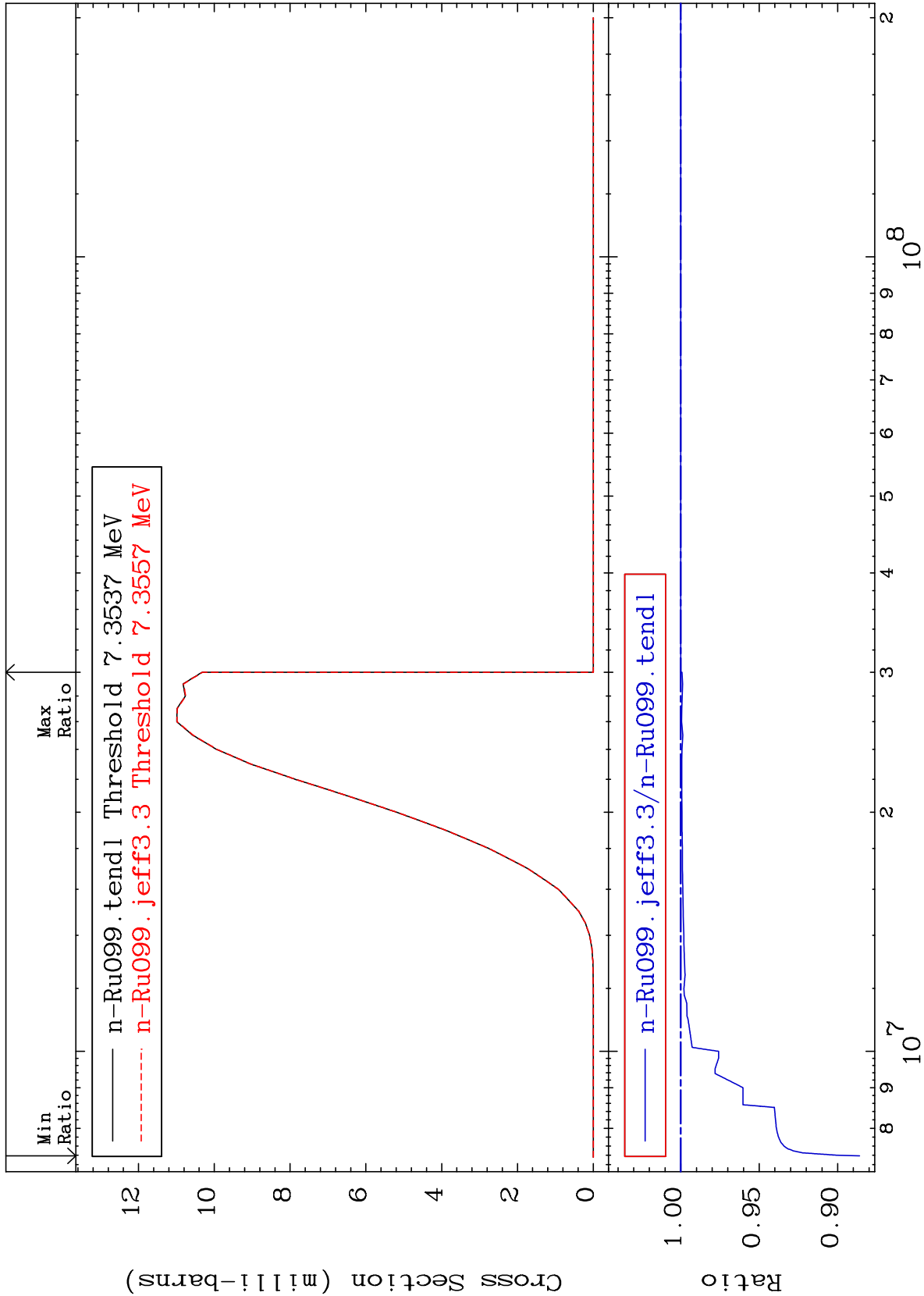
44-Ru-99

MAT 4434

44-Ru-99

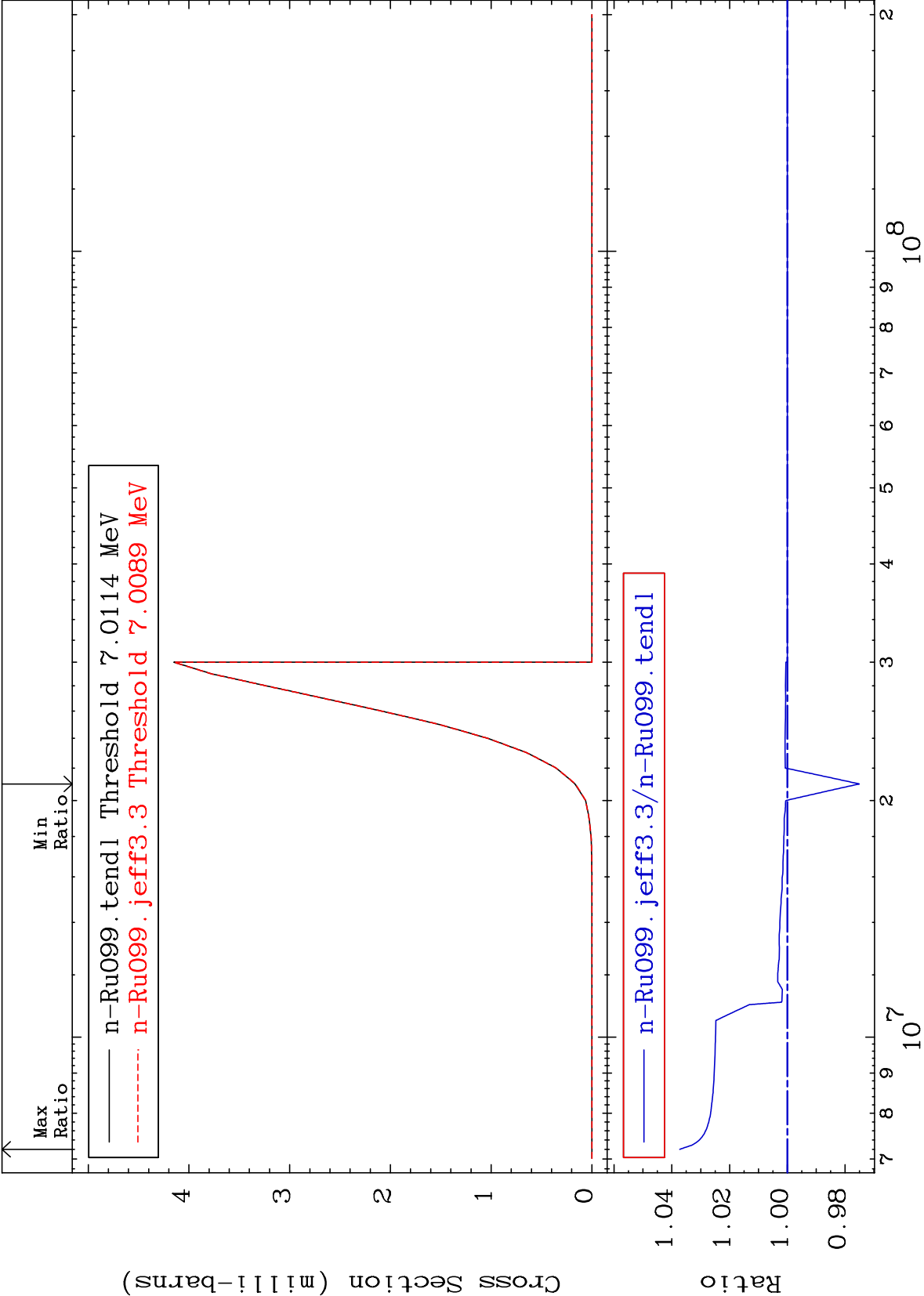
(n,t)
Cross Section

-11.40 To 0.000 %



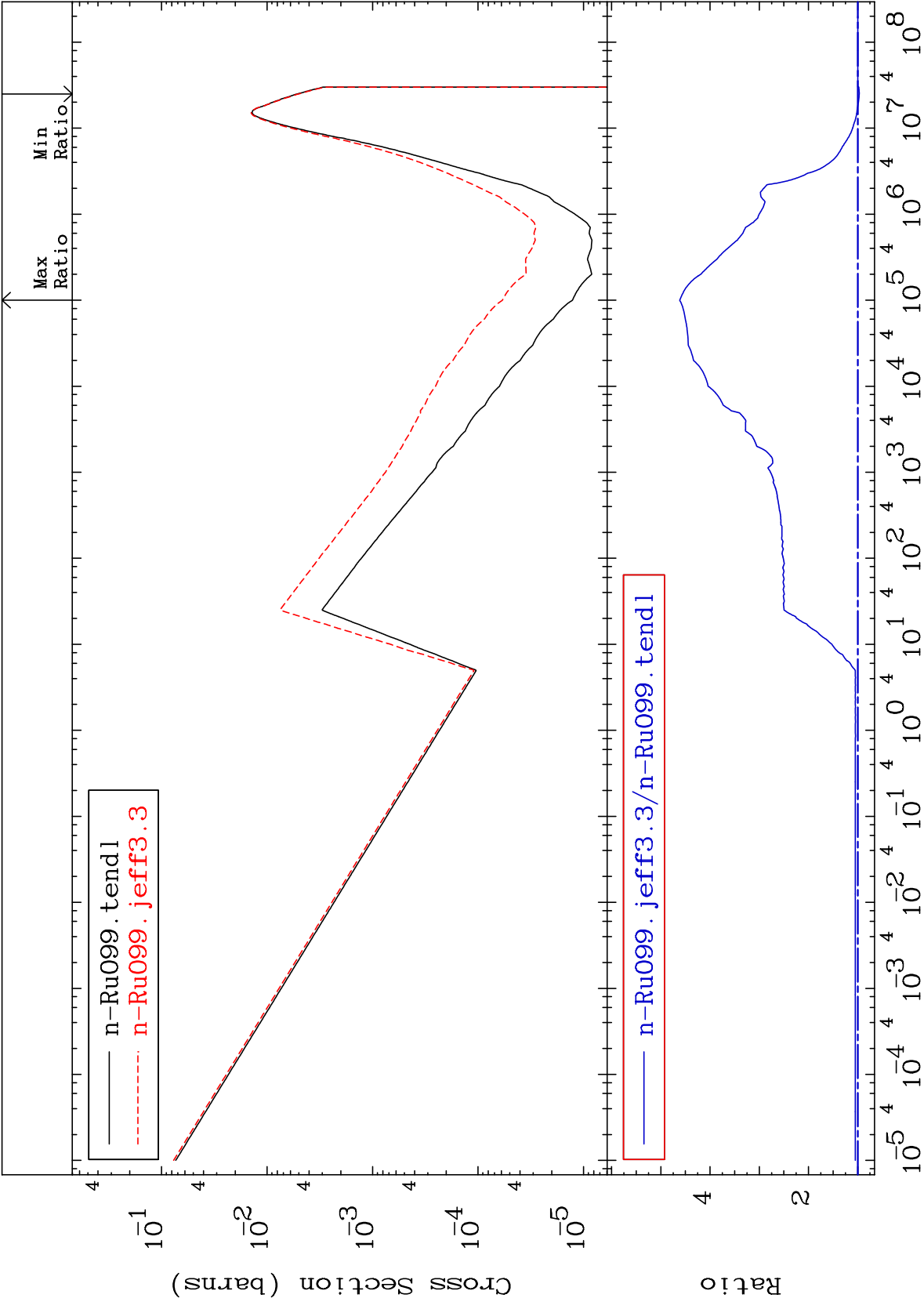
Cross Section

-2.491 To 3.726 %



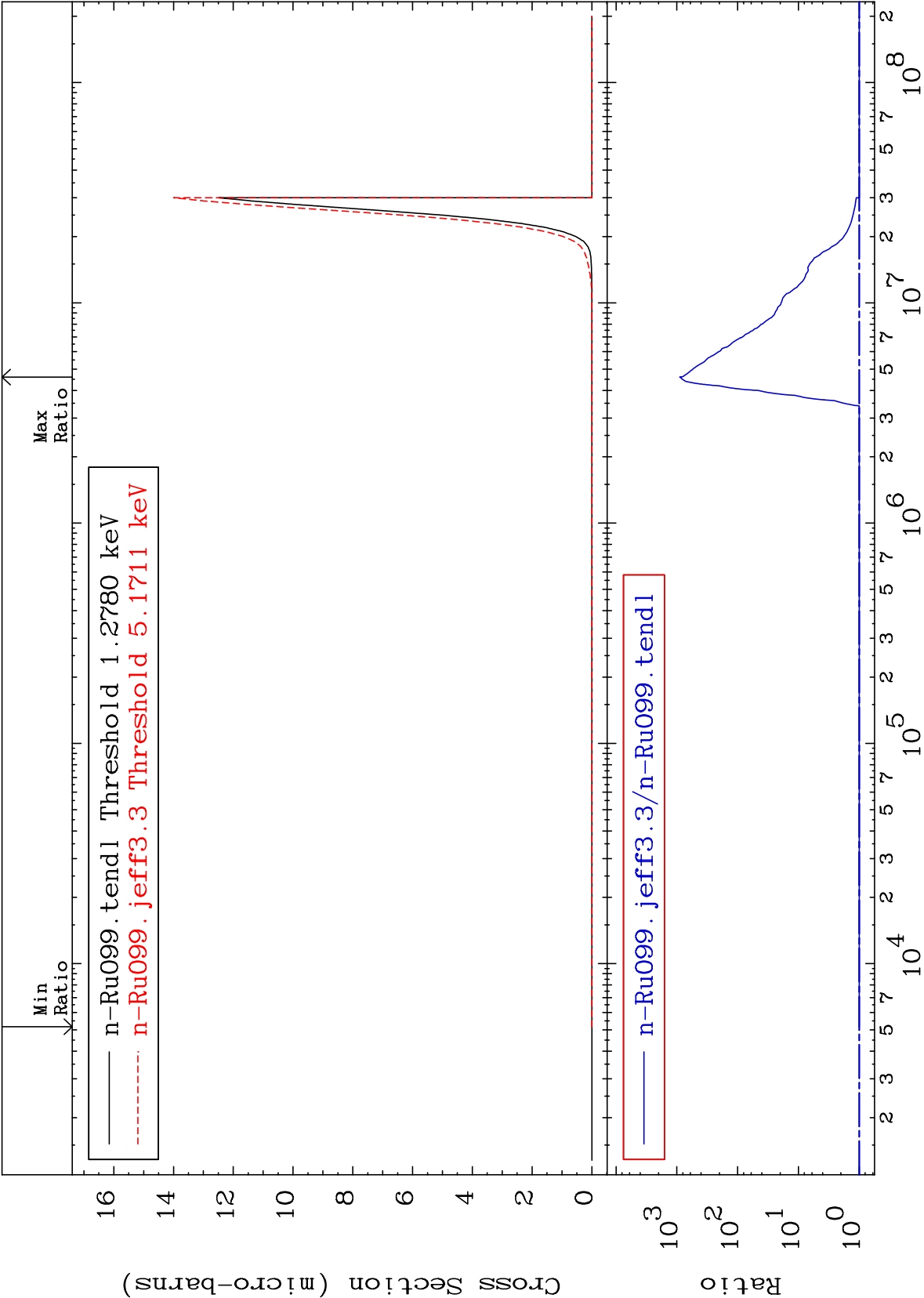
(n, α)
Cross Section

-3.163 To 361.6 %



Cross Section

0.000 To 9999. %



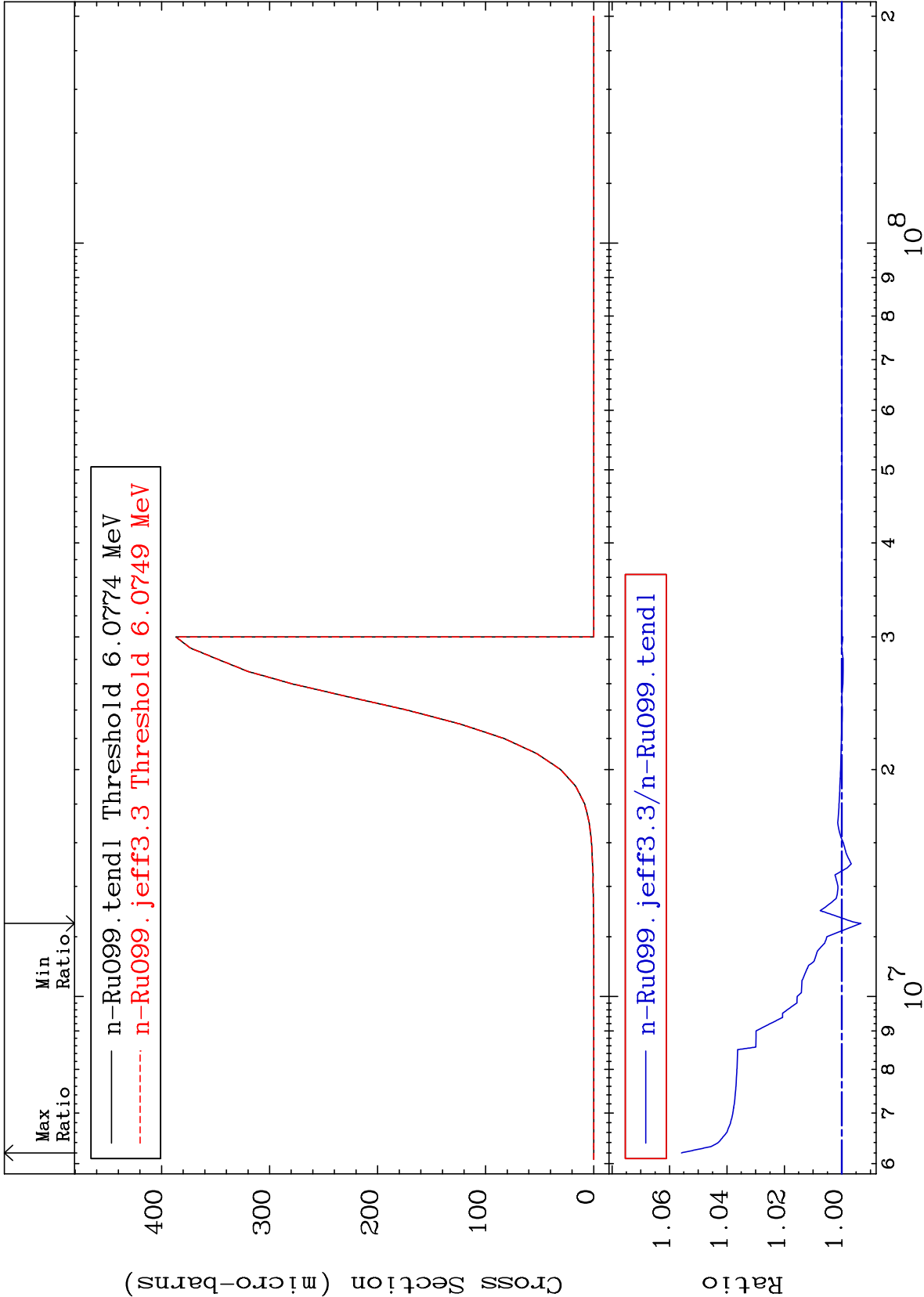
MAT 4434

(n,2p)

44-Ru-99

Cross Section

-0.664 To 5.581 %



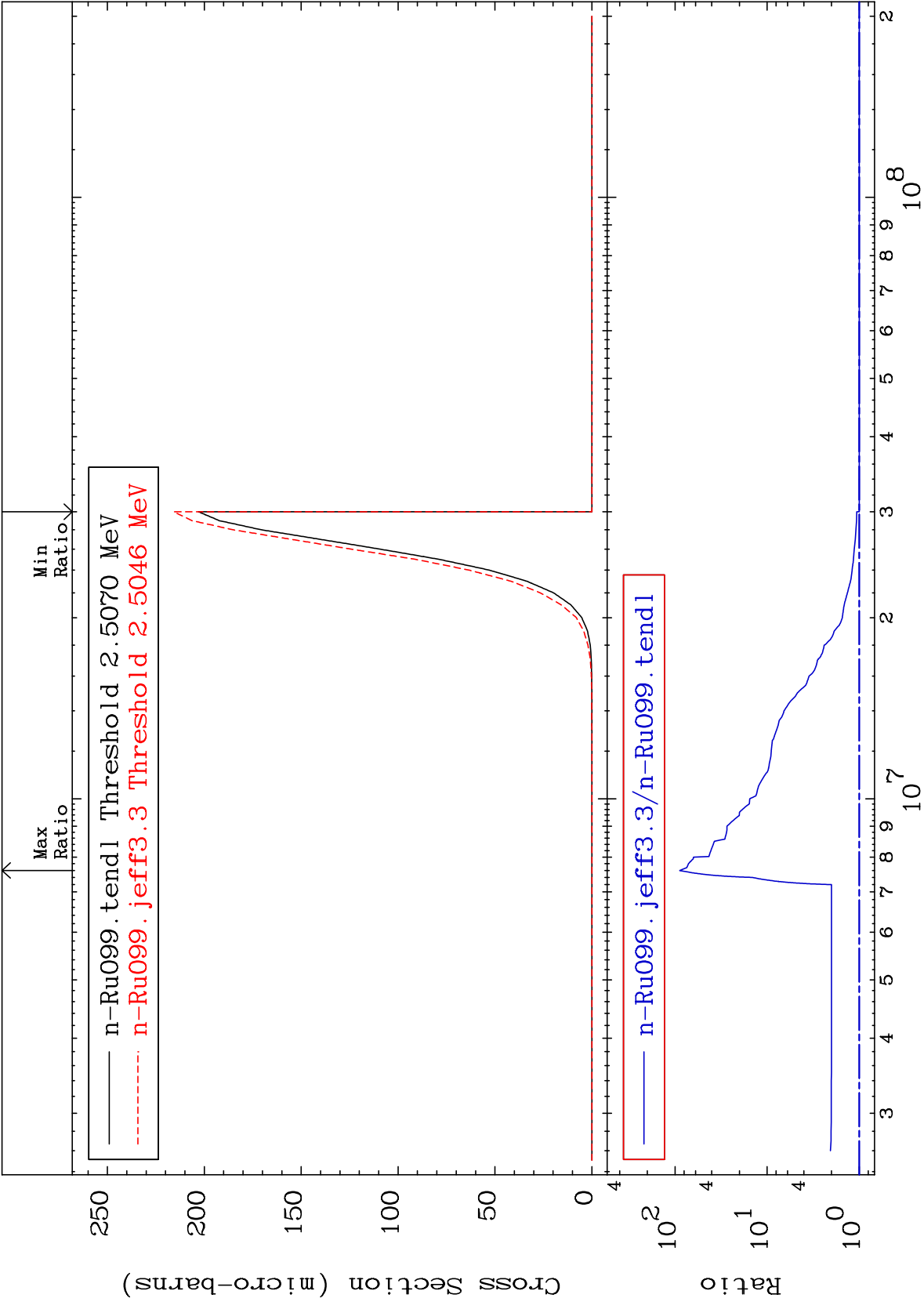
59

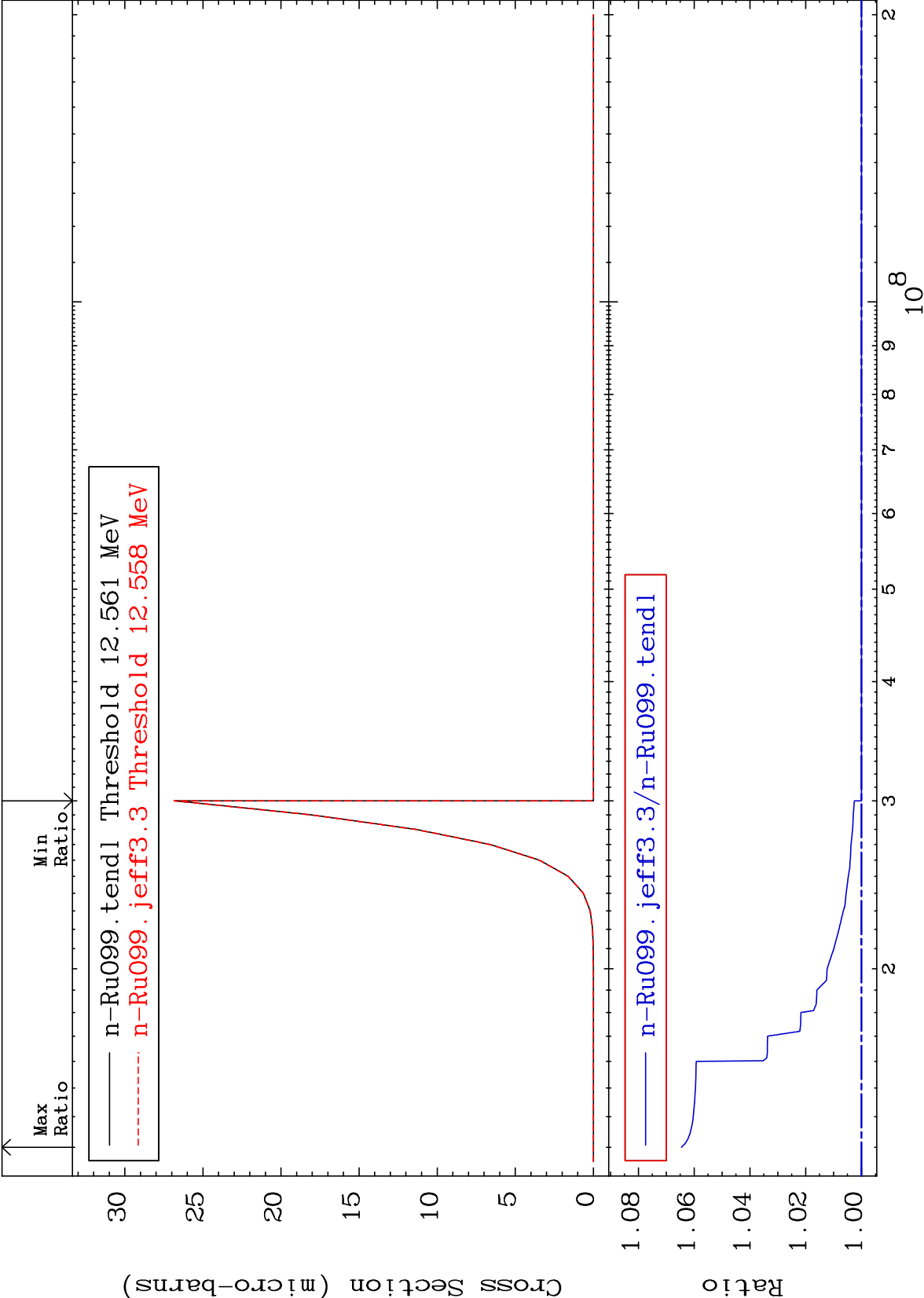
Incident Energy (eV)

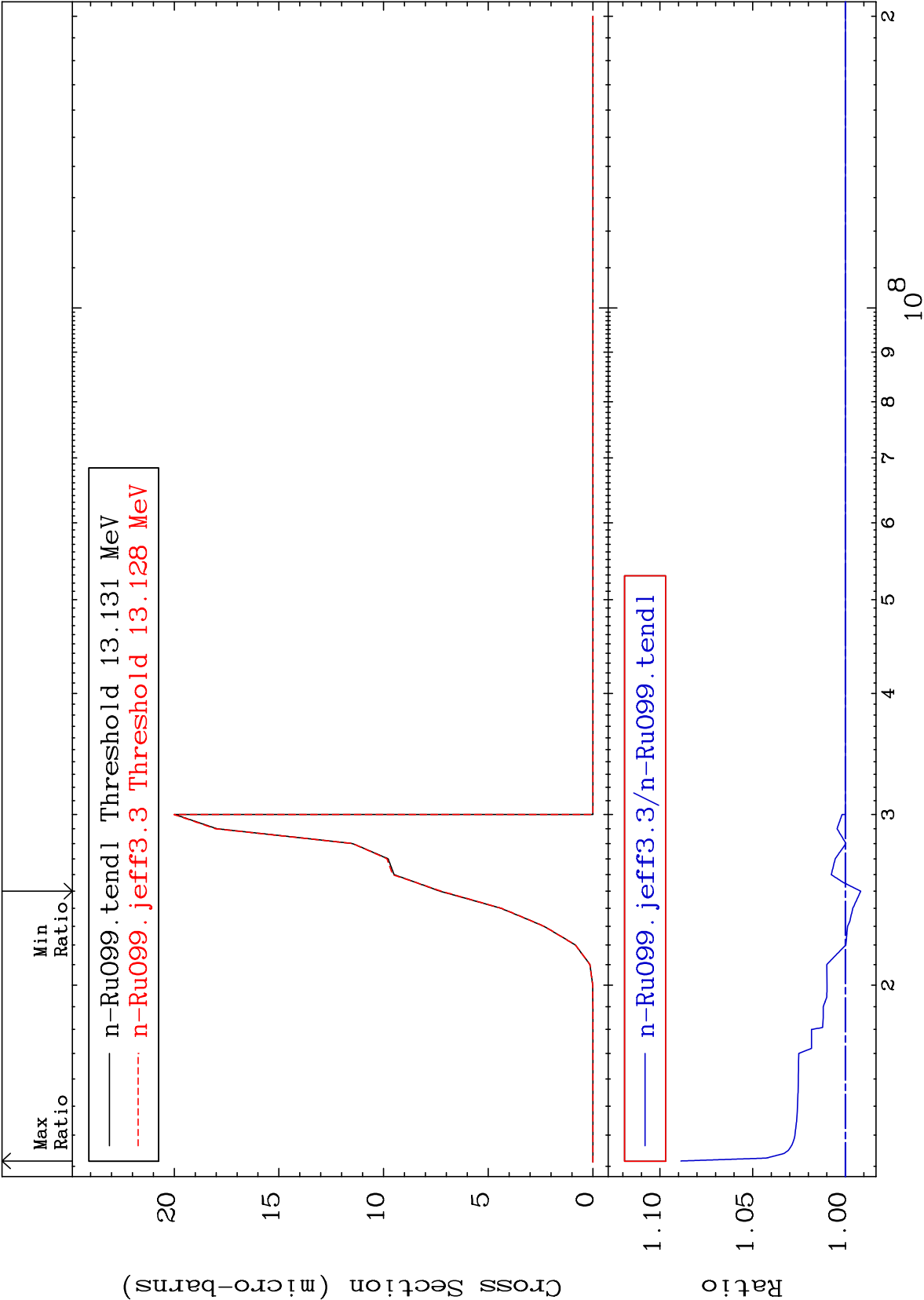
44-Ru-99

MAT 4434

(n,p) α
Cross Section
0.000 To 8796. %
44-Ru-99

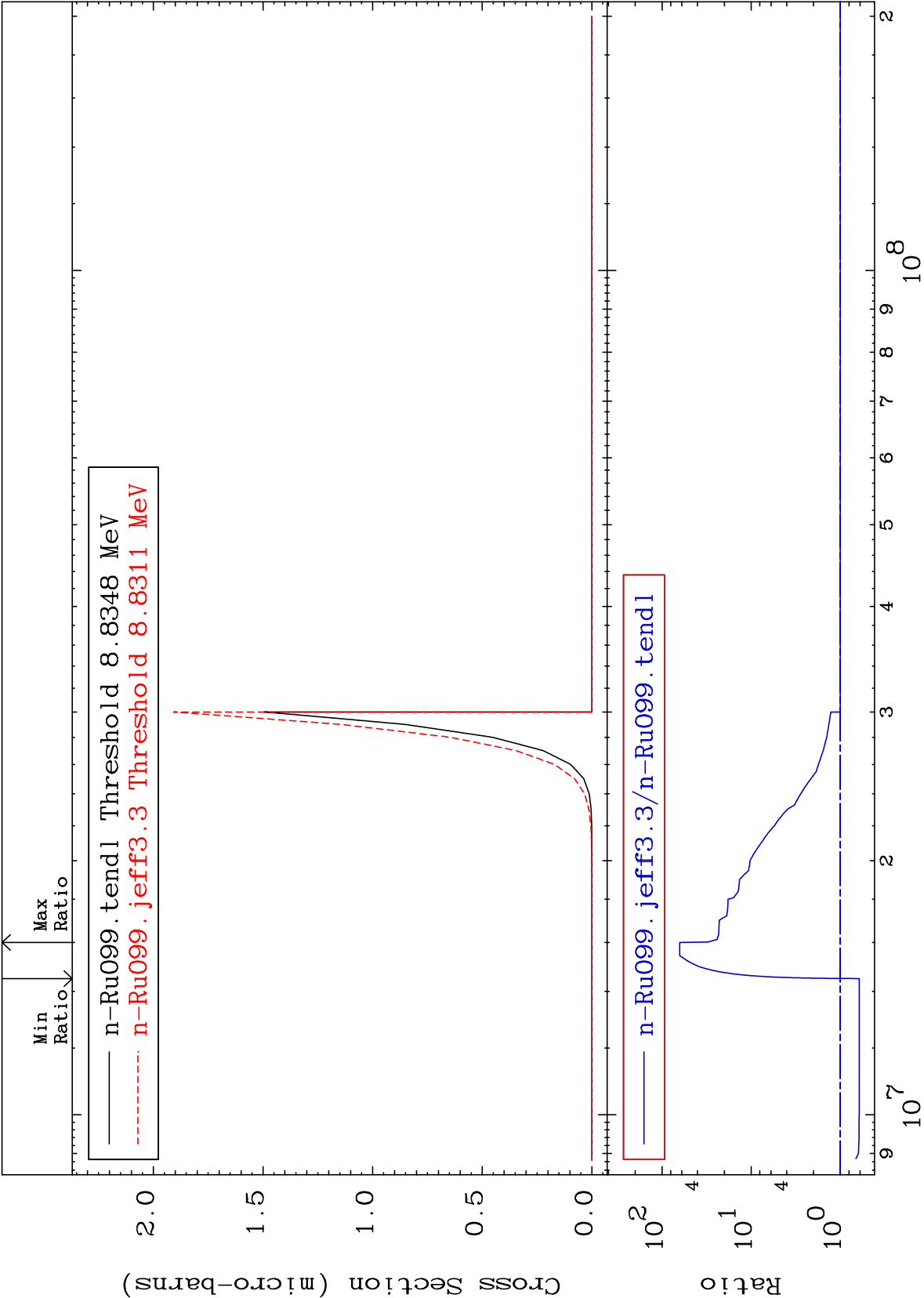




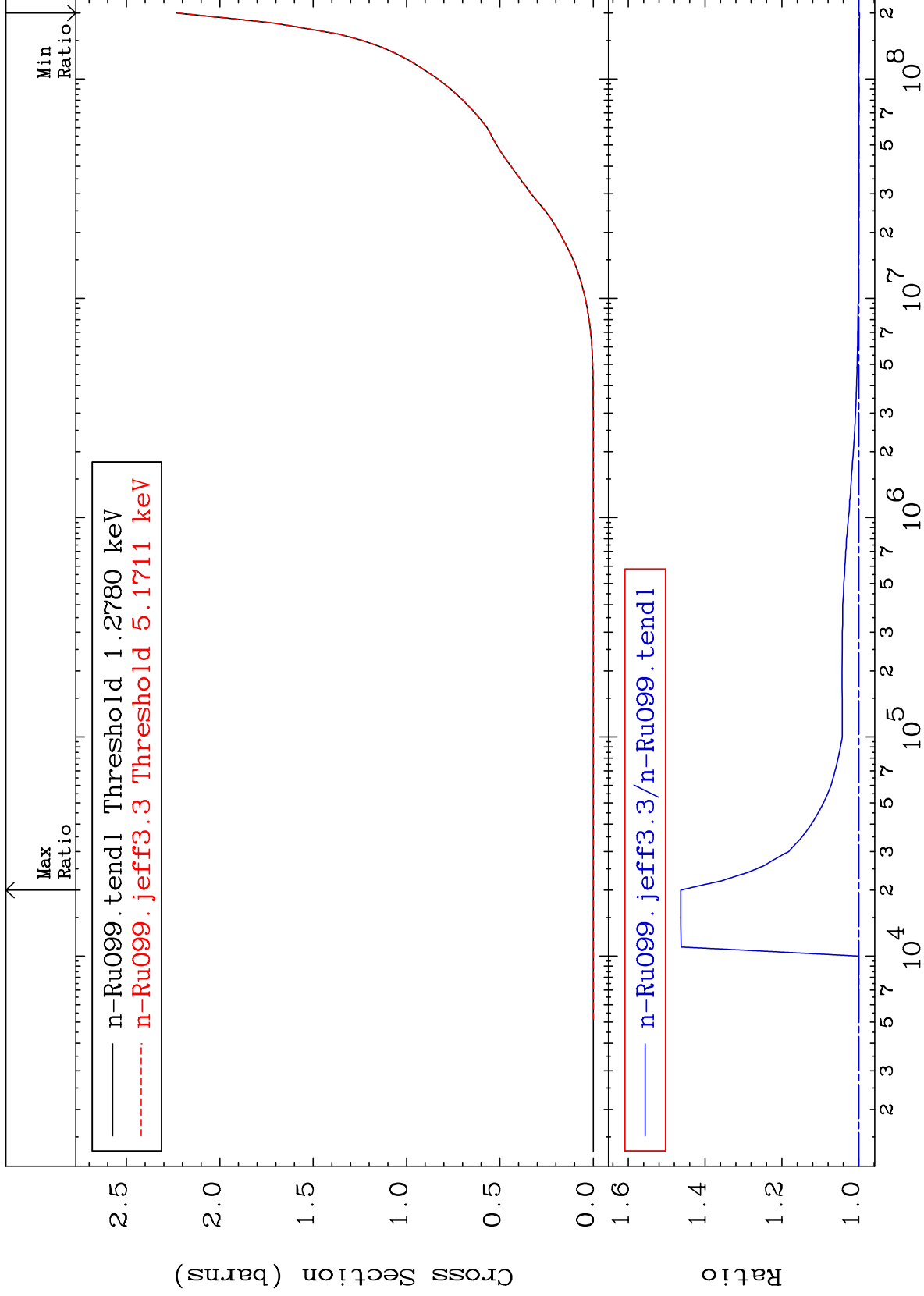


MAT 4434

(n,d) α
Cross Section
44-Ru-99
-38.72 To 6232. %



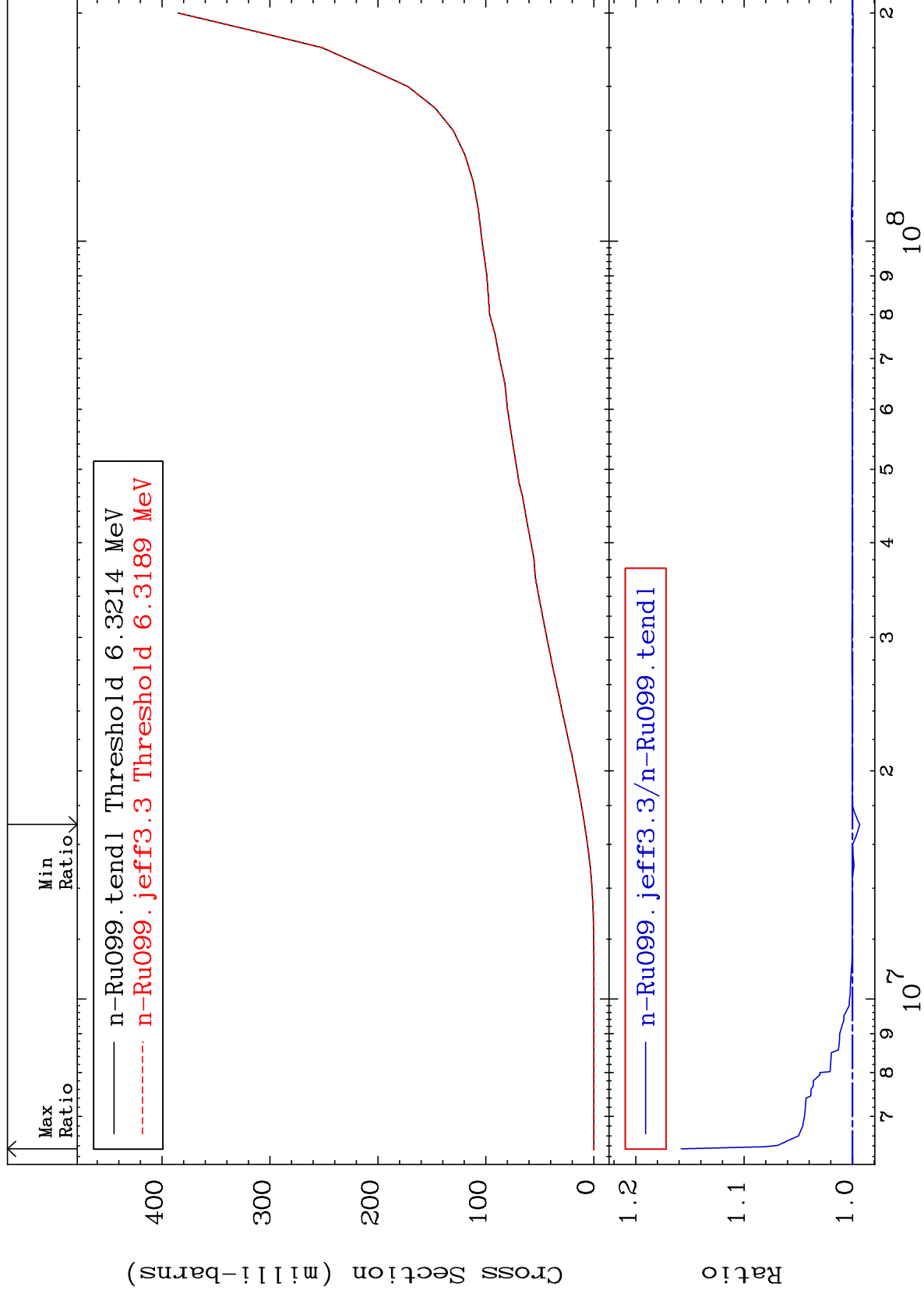
63



MAT 4434

Deuterium Production
Cross Section

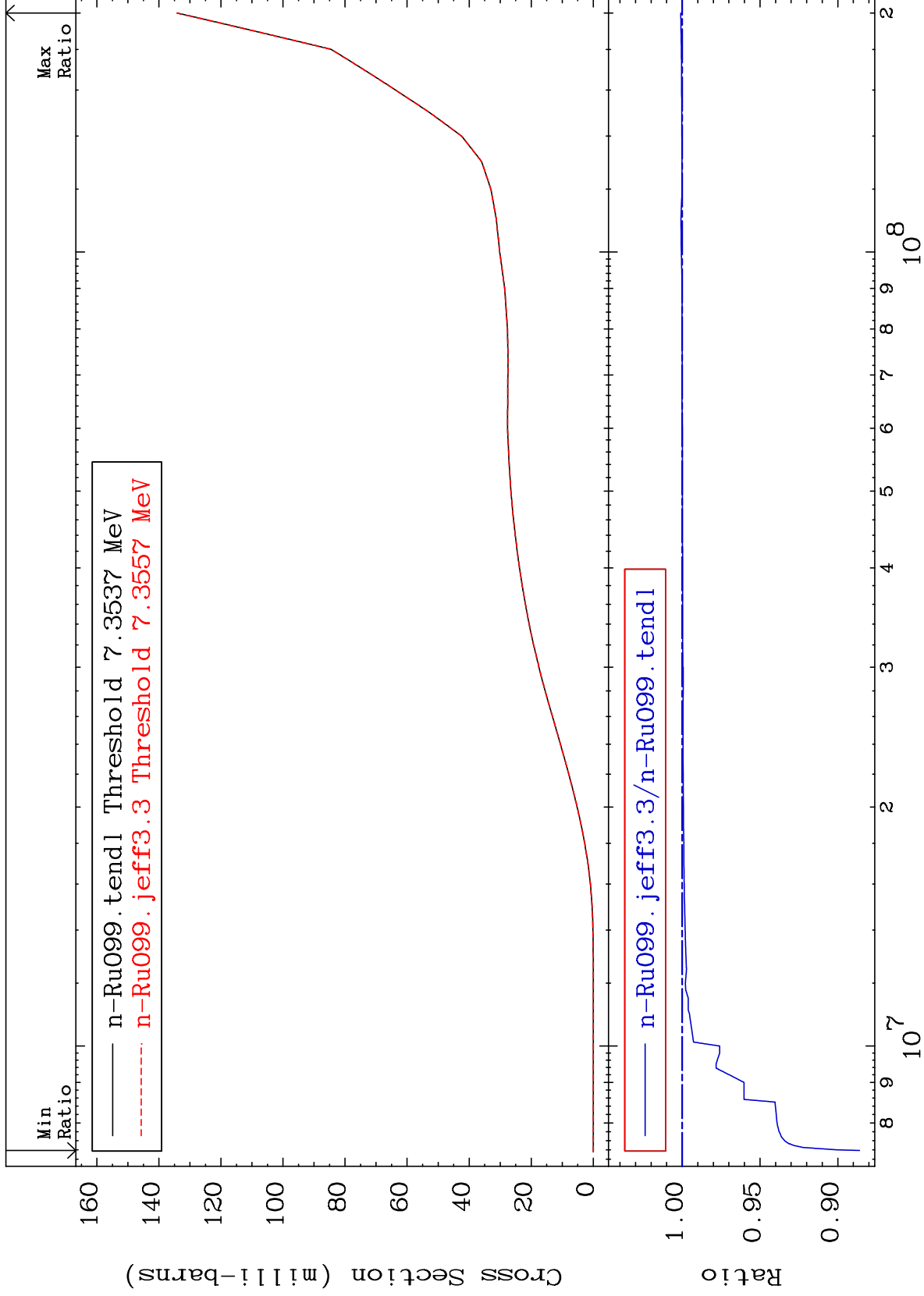
44-Ru-99
-0.661 To 15.81 %



MAT 4434

Tritium Production
Cross Section

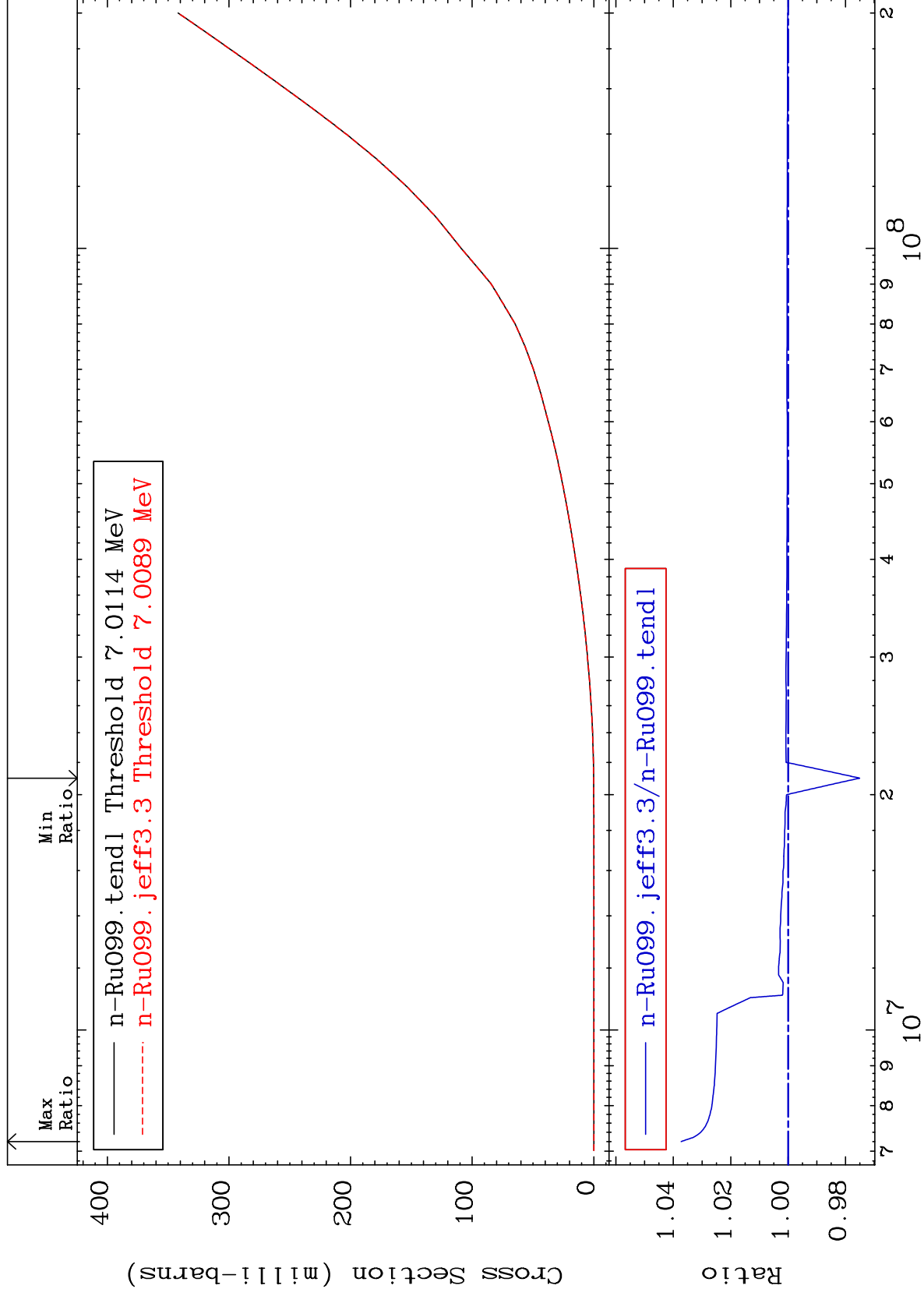
44-Ru-99
-11.40 To 0.093 %



MAT 4434

He-3 Production
Cross Section

44-Ru-99
-2.491 To 3.726 %



67

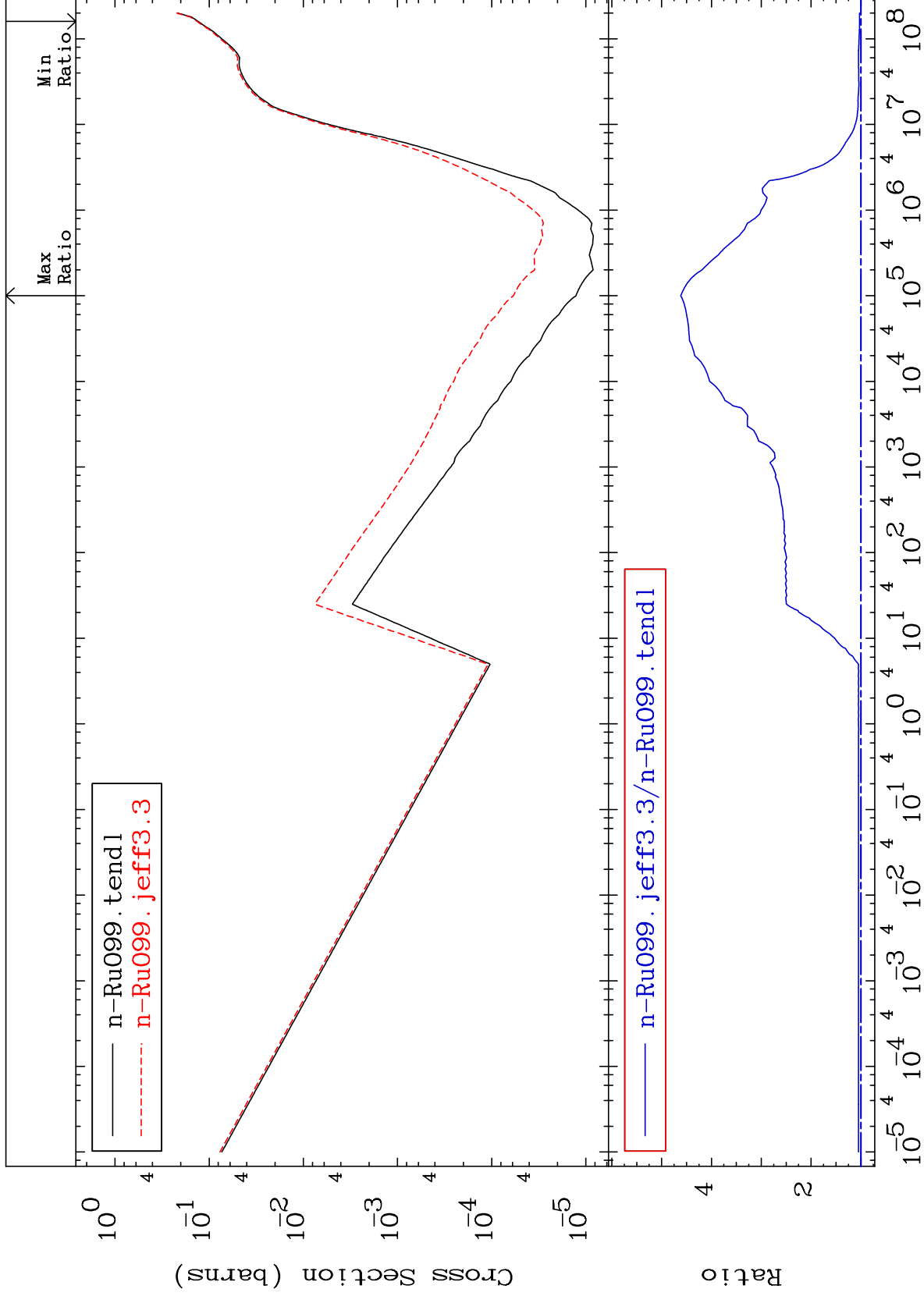
Incident Energy (eV)

44-Ru-99

MAT 4434

He-4 Production
Cross Section

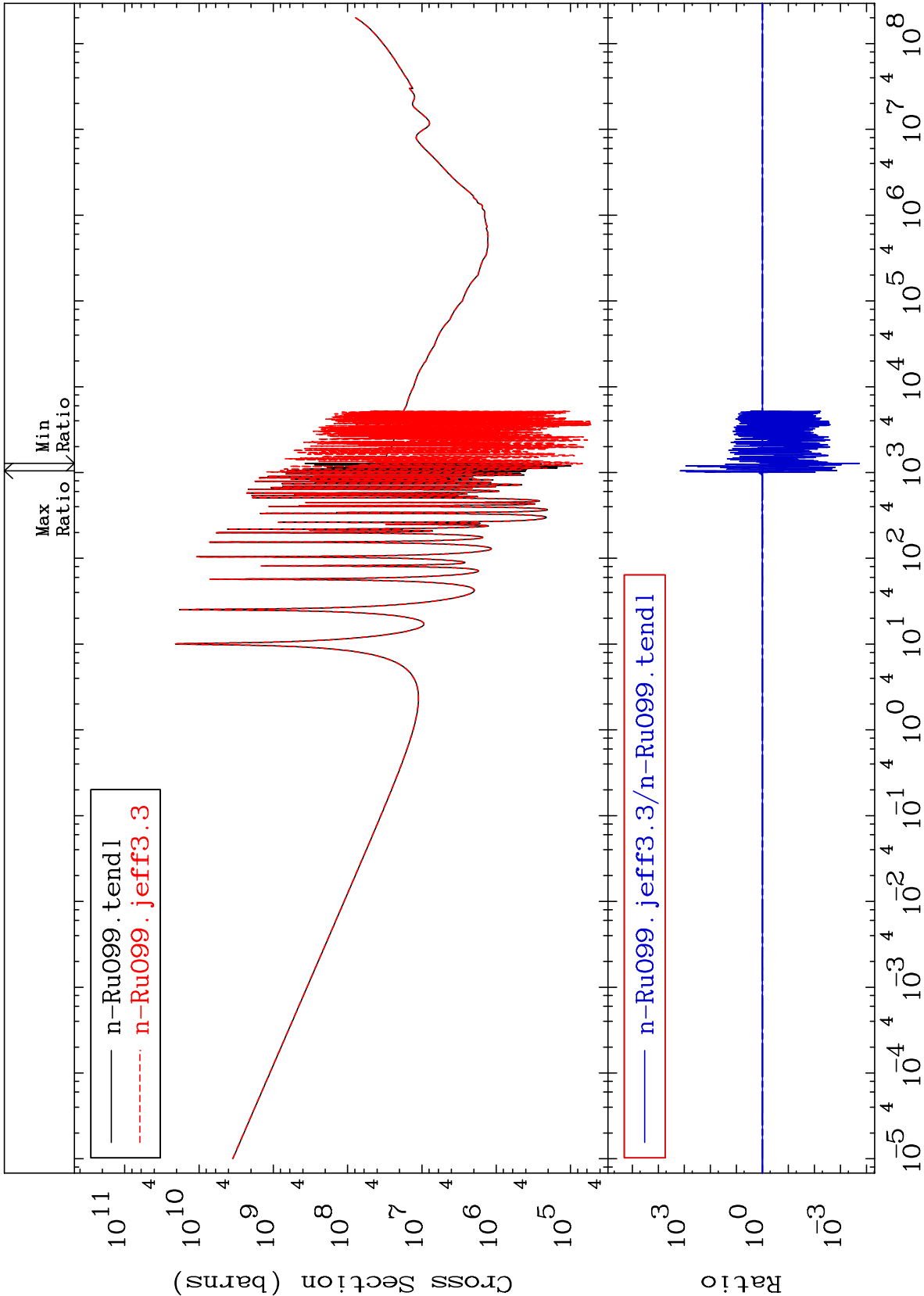
44-Ru-99
2.755 To 361.6 %

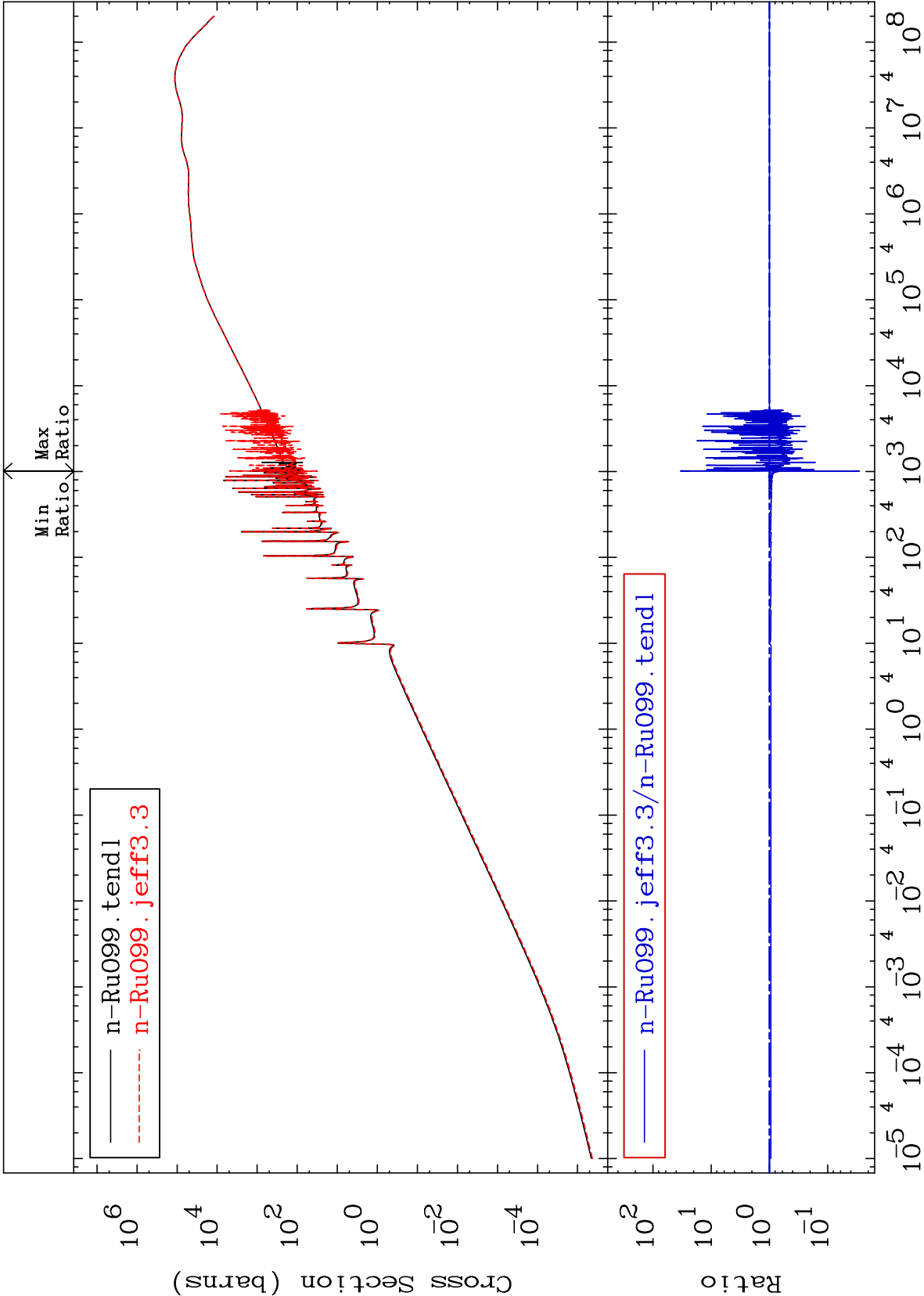


68

Incident Energy (eV)

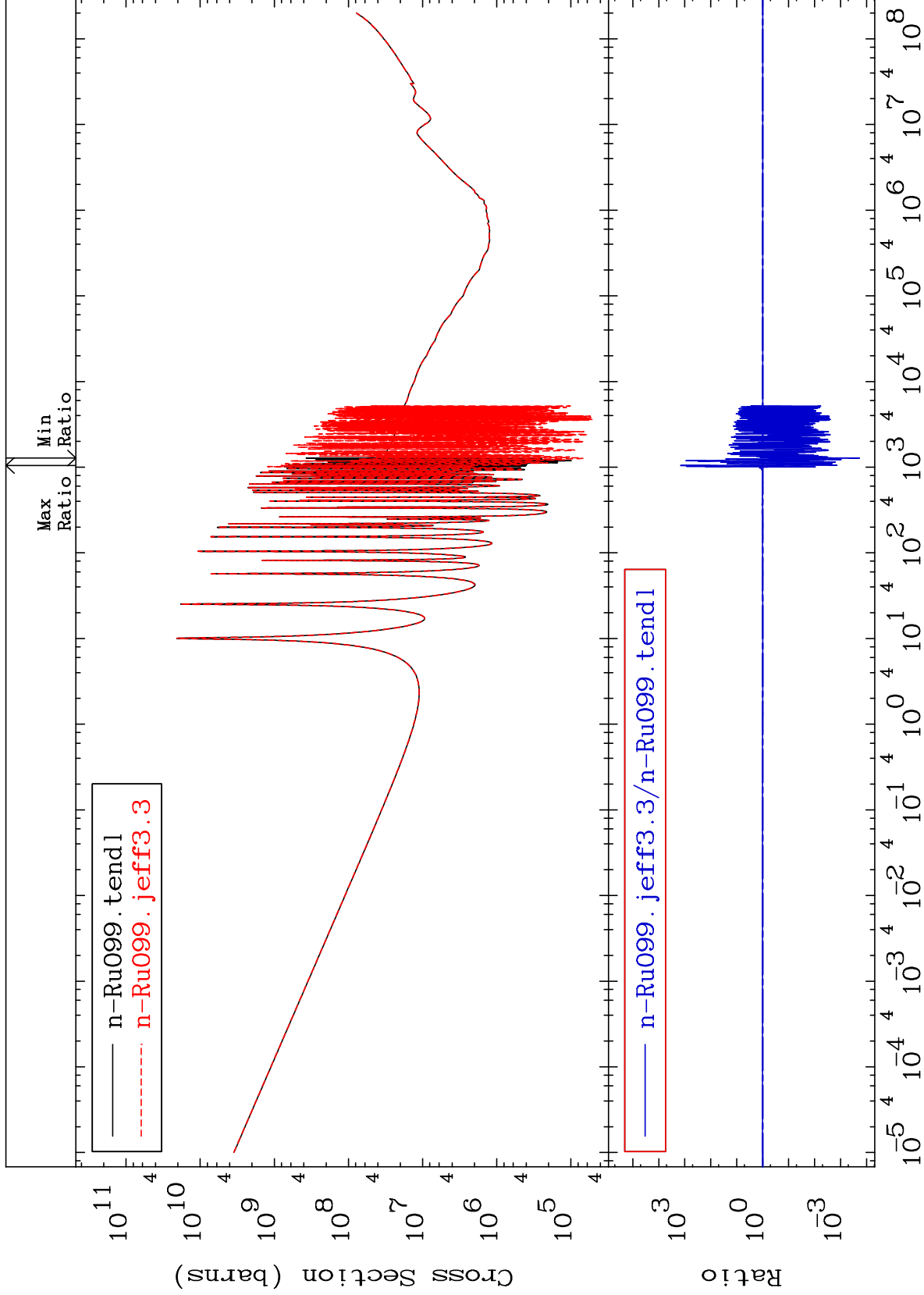
44-Ru-99





Cross Section

-99.98 To 9999. %



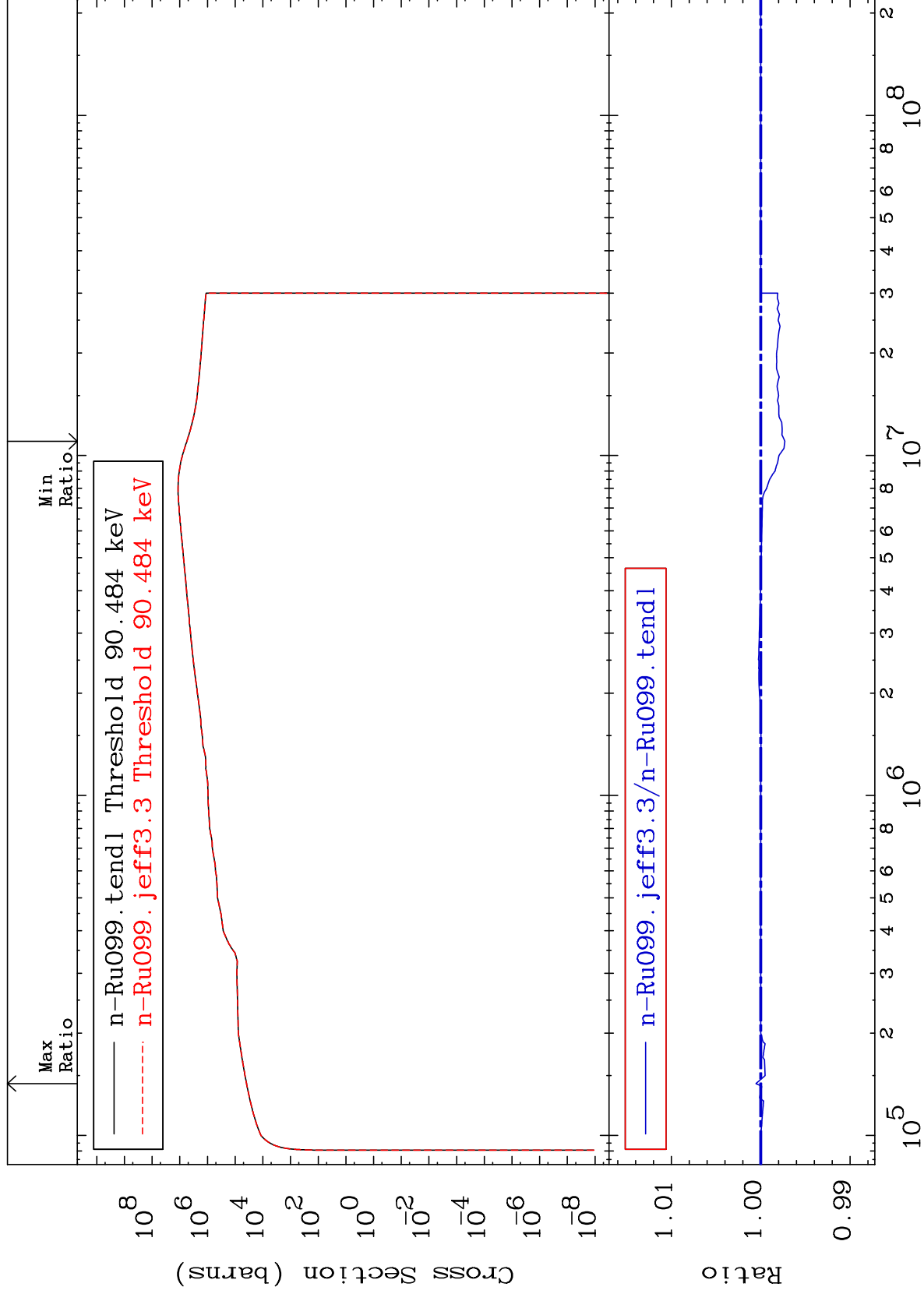
MAT 4434

Kerma inelastic (mt51-91)

44-Ru-99

Cross Section

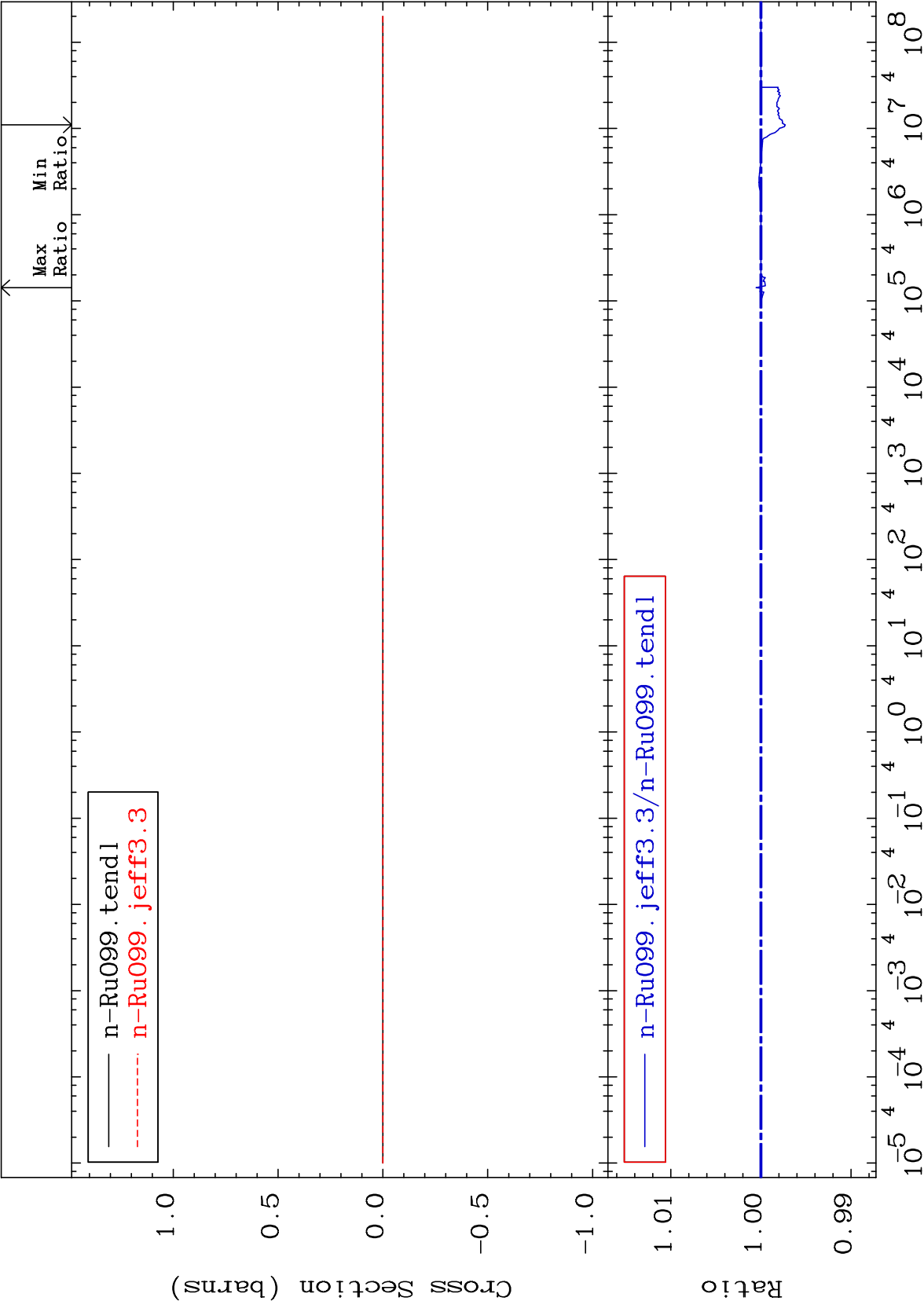
-0.269 To 0.053 %



MAT 4434

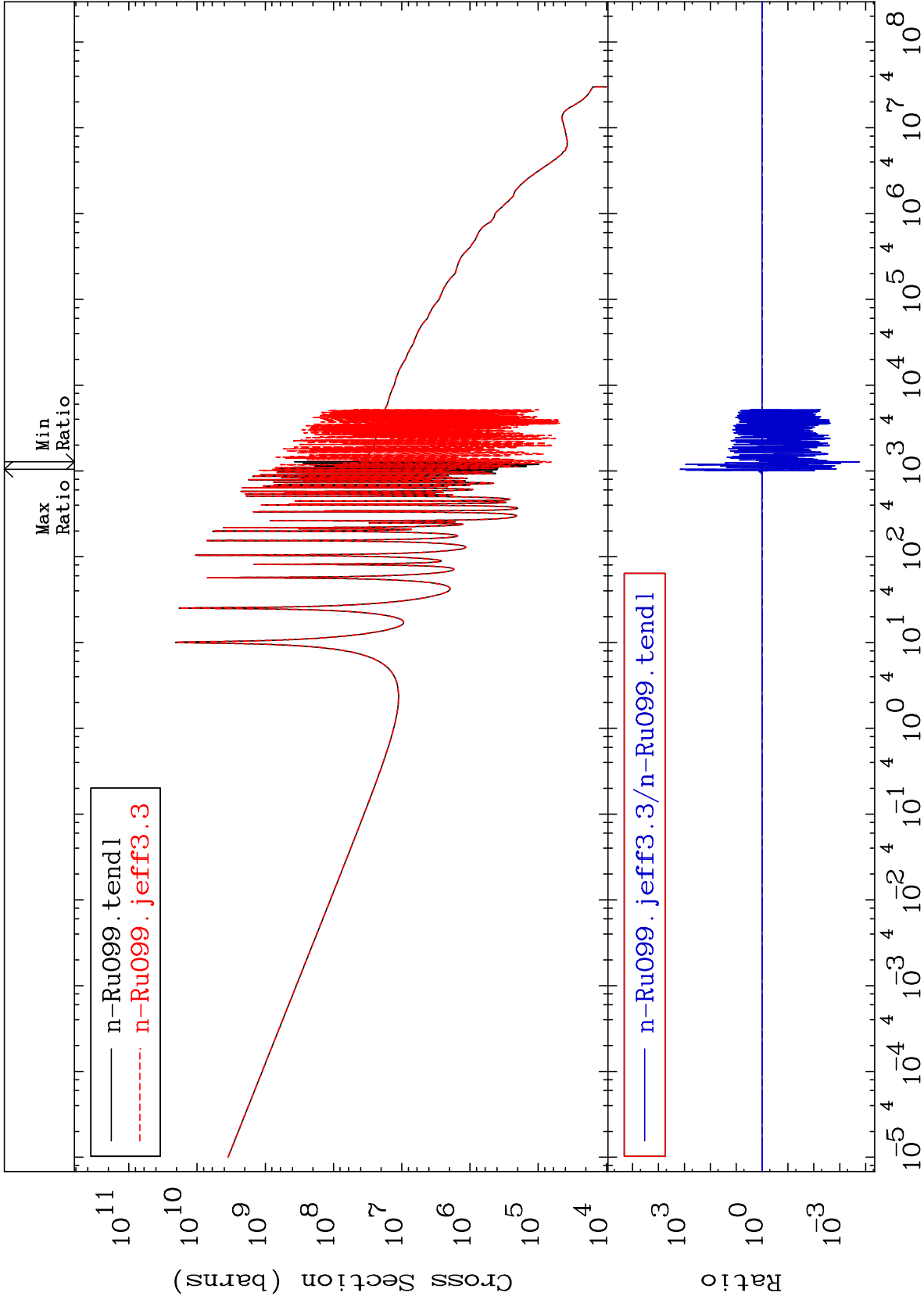
Kerma fission (mt18 or mt19-20-21-38)
Cross Section

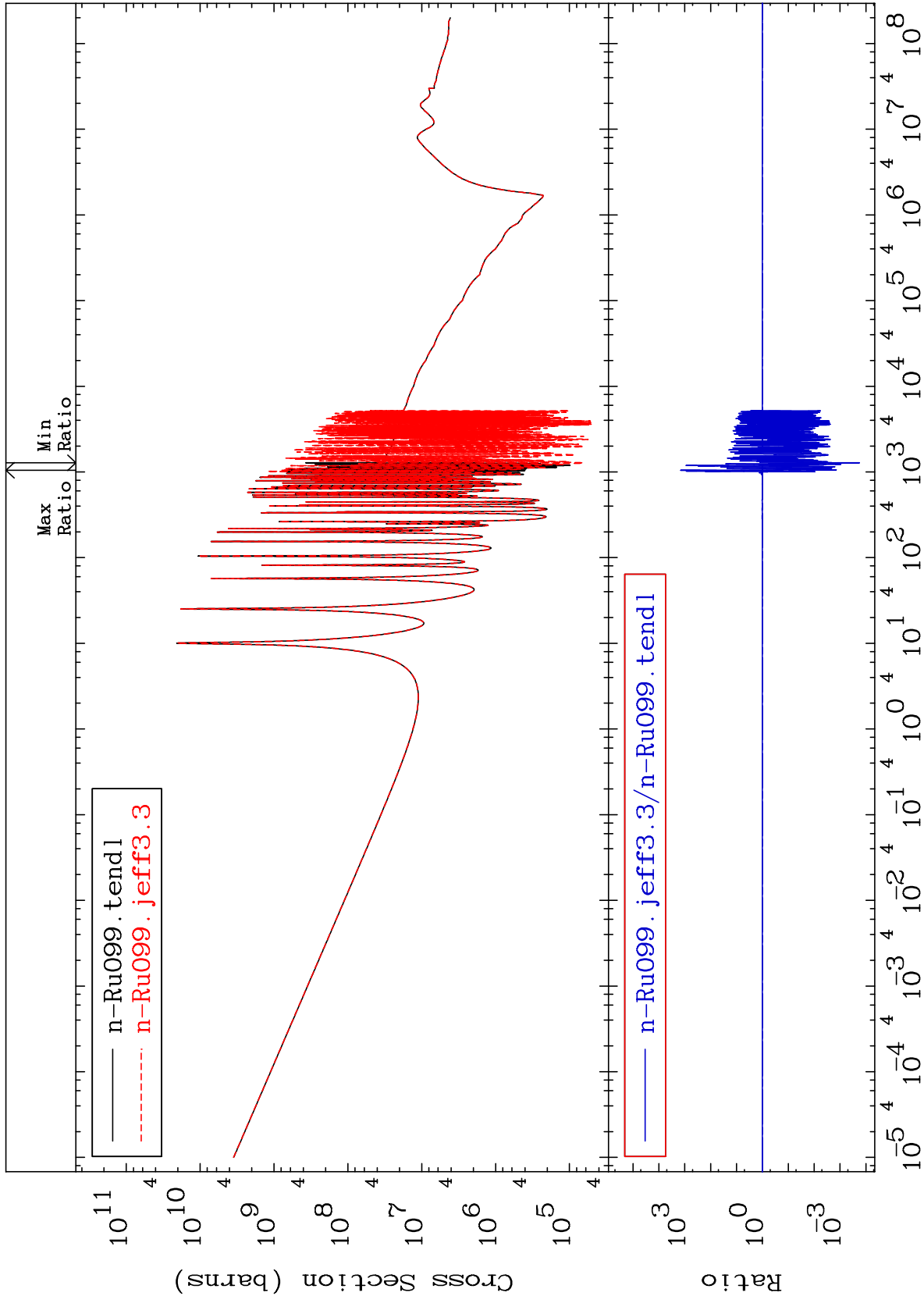
44-Ru-99
-0.269 To 0.053 %

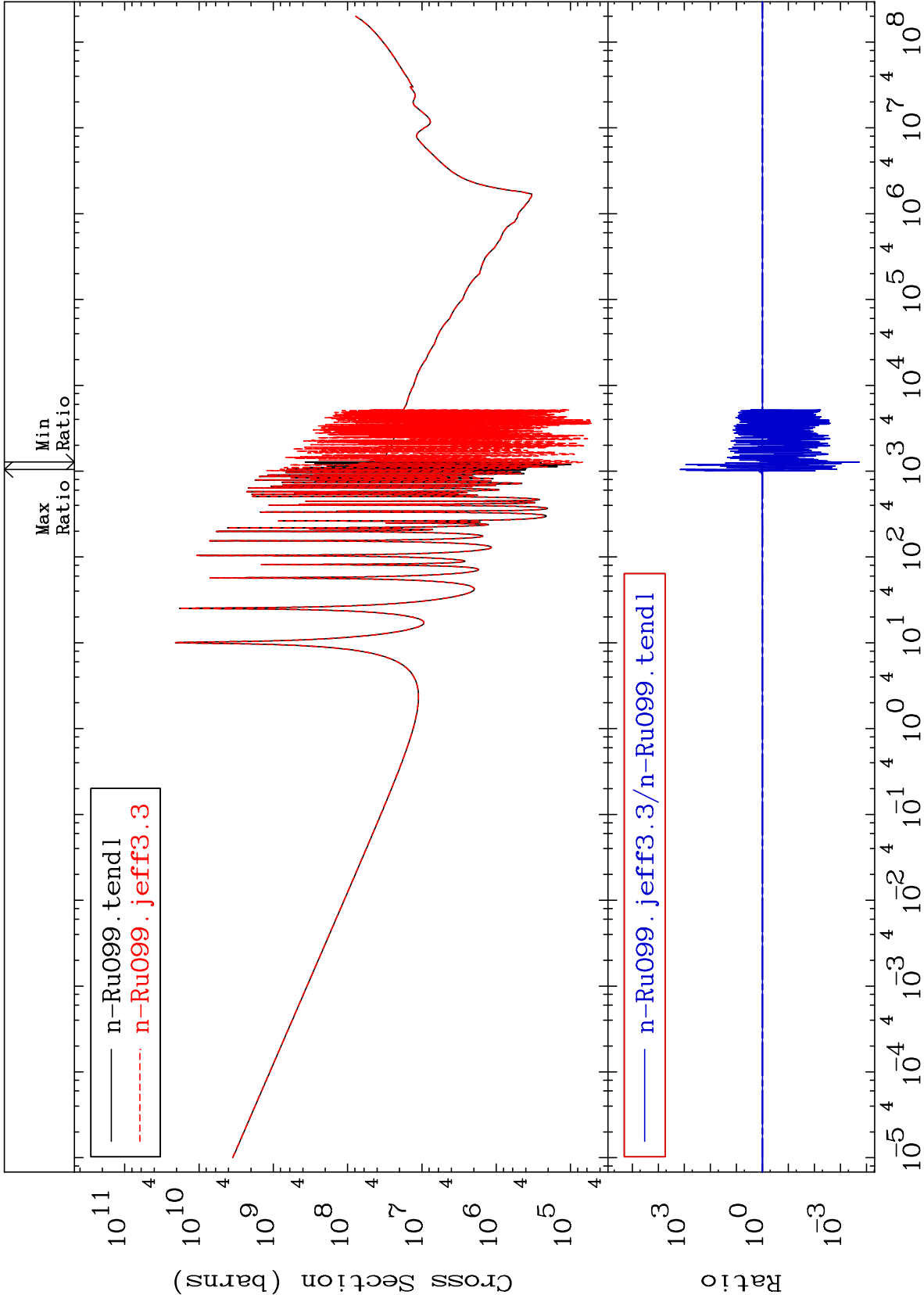


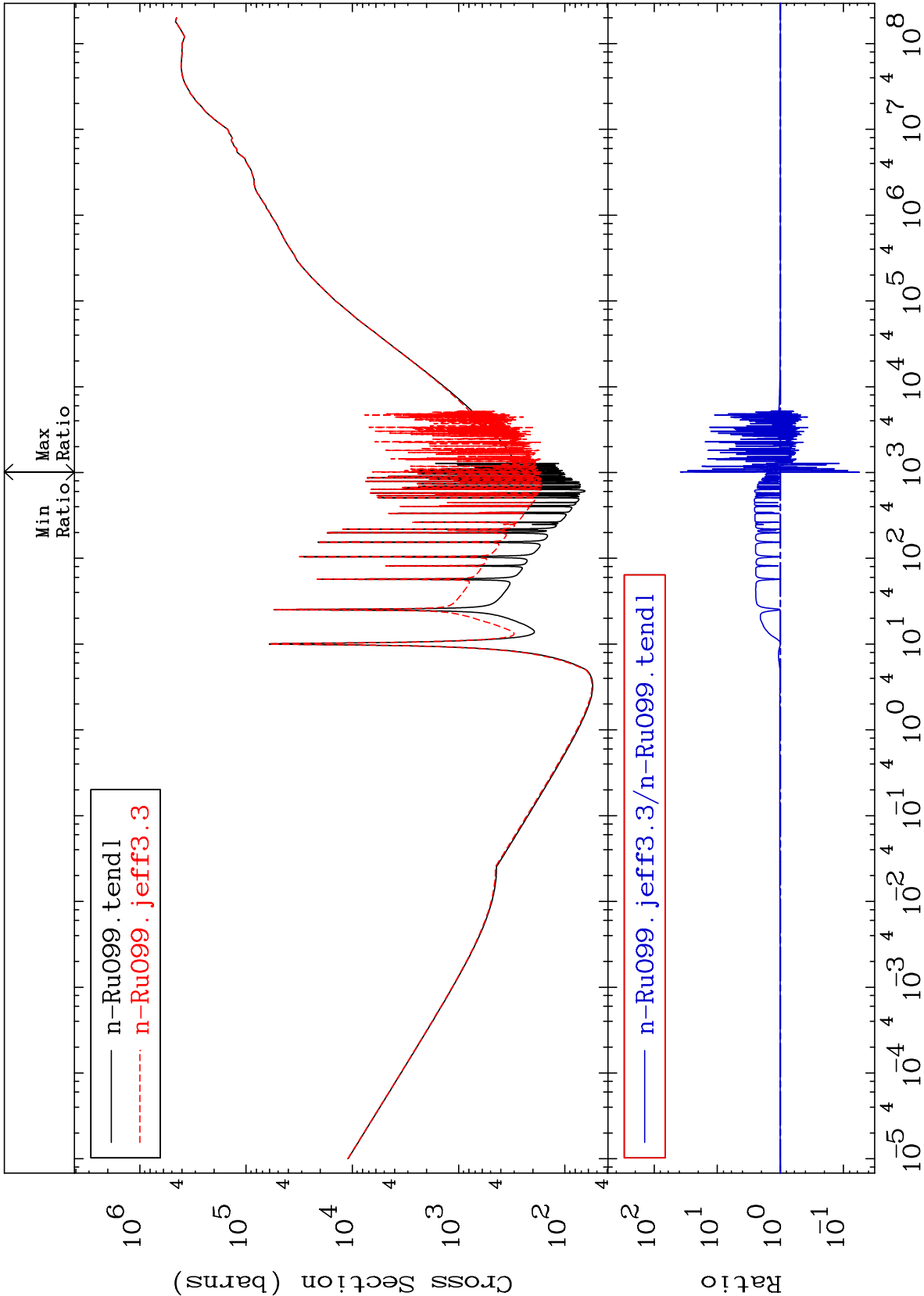
Cross Section

-99.98 To 9999. %





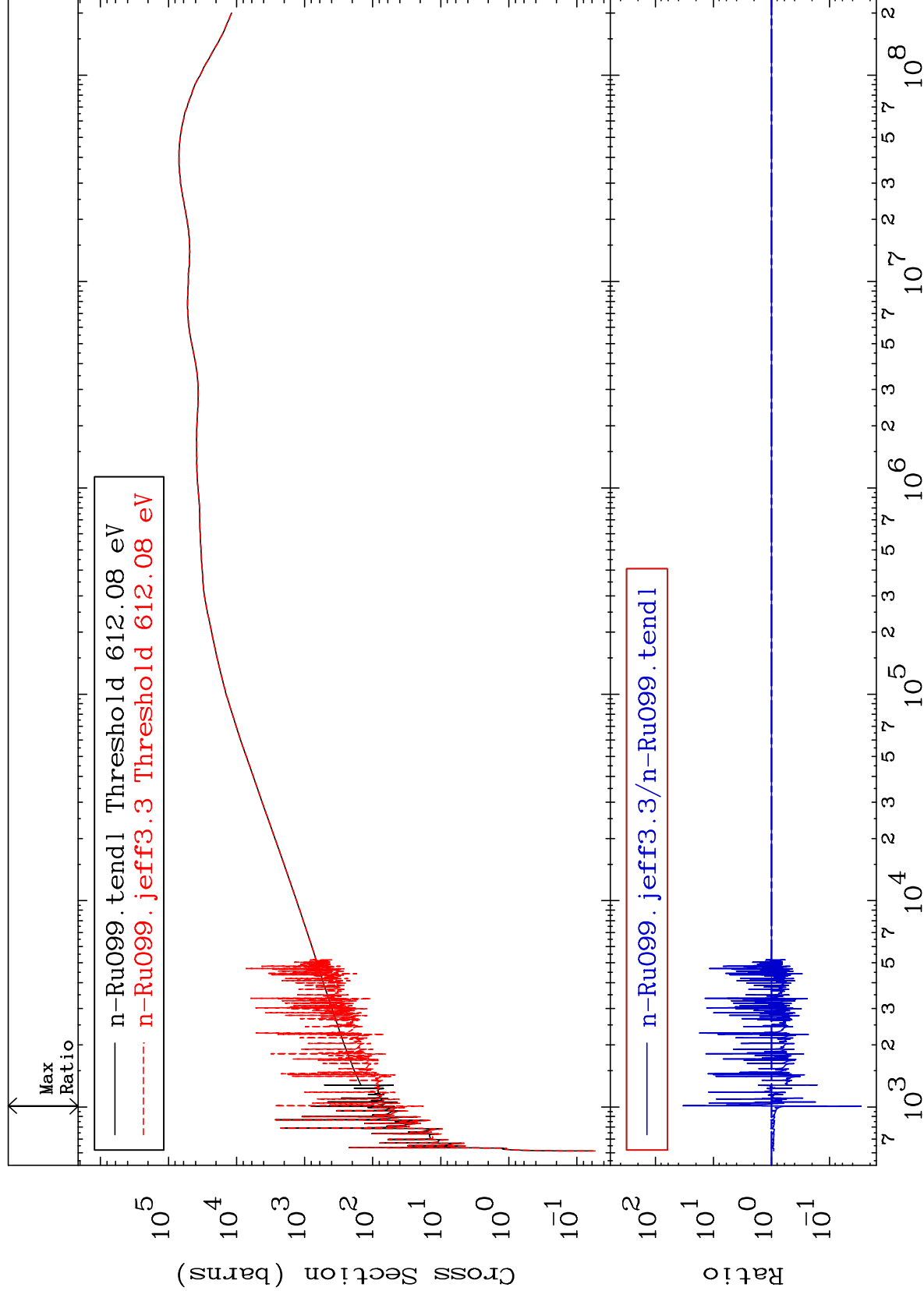




MAT 4434

Dpa elastic (mt2)
Cross Section

44-Ru-99
-97.15 To 3303. %



82

Incident Energy (eV)

44-Ru-99

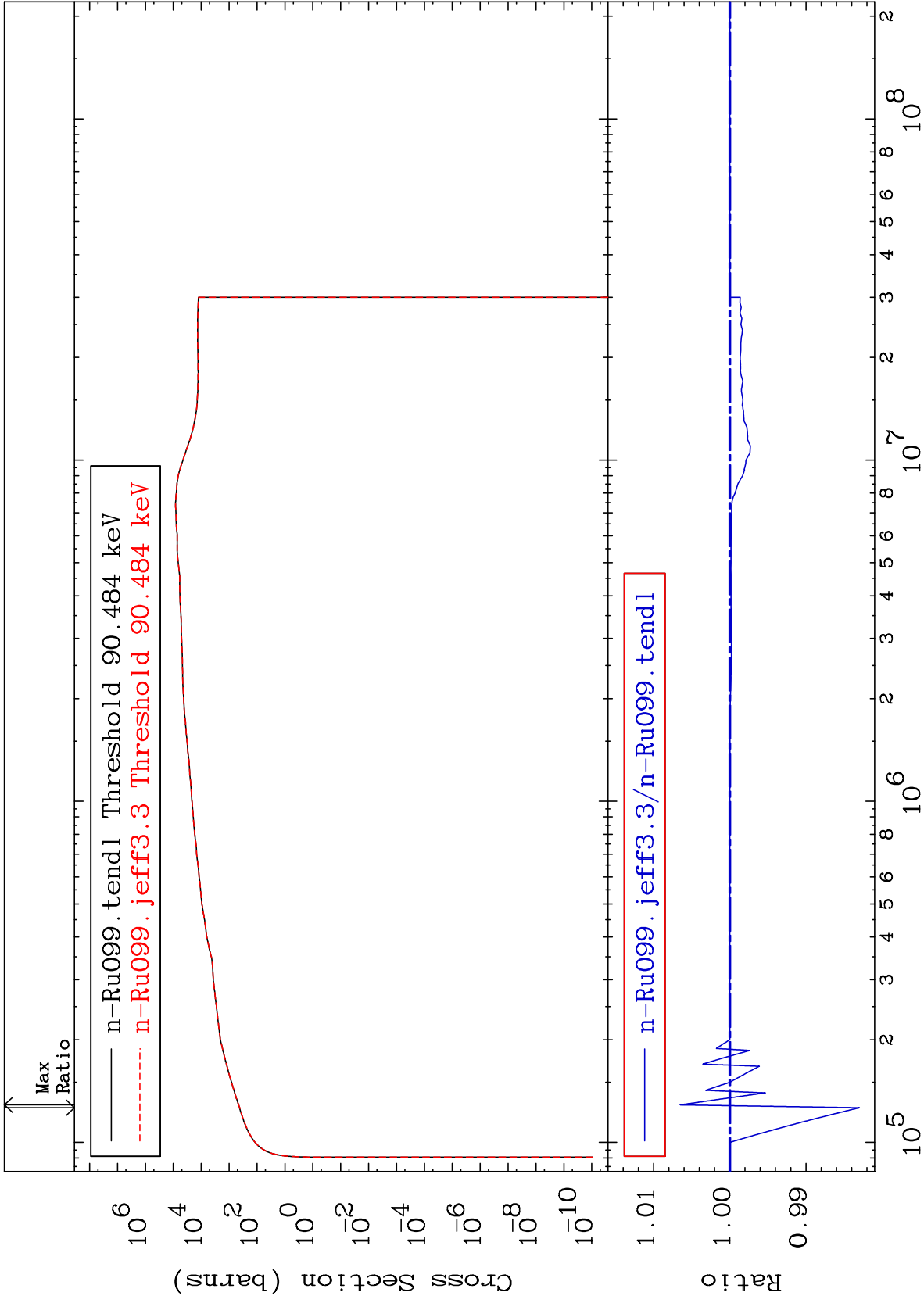
MAT 4434

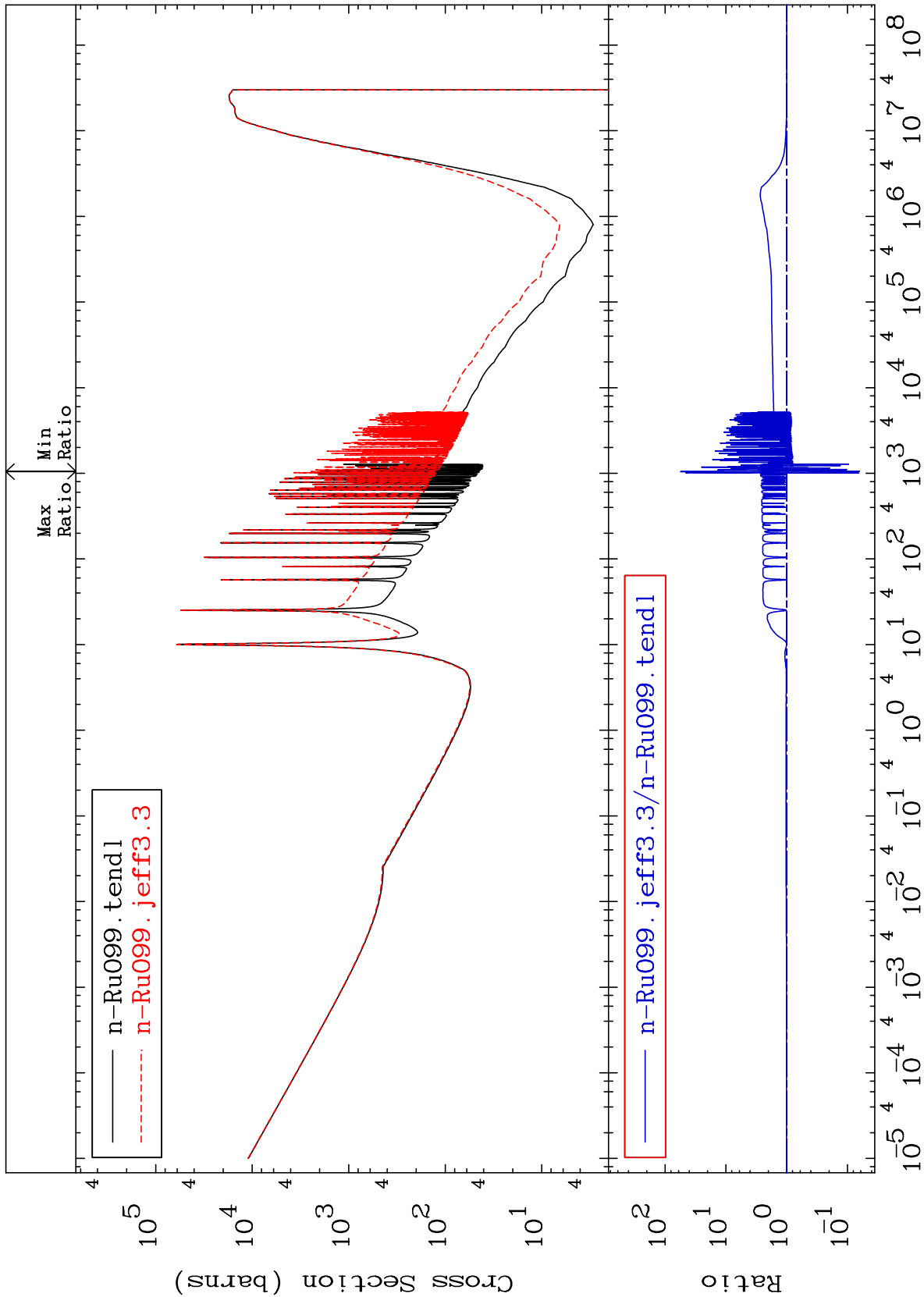
Dpa inelastic (mt51-91)

44-Ru-99

Cross Section

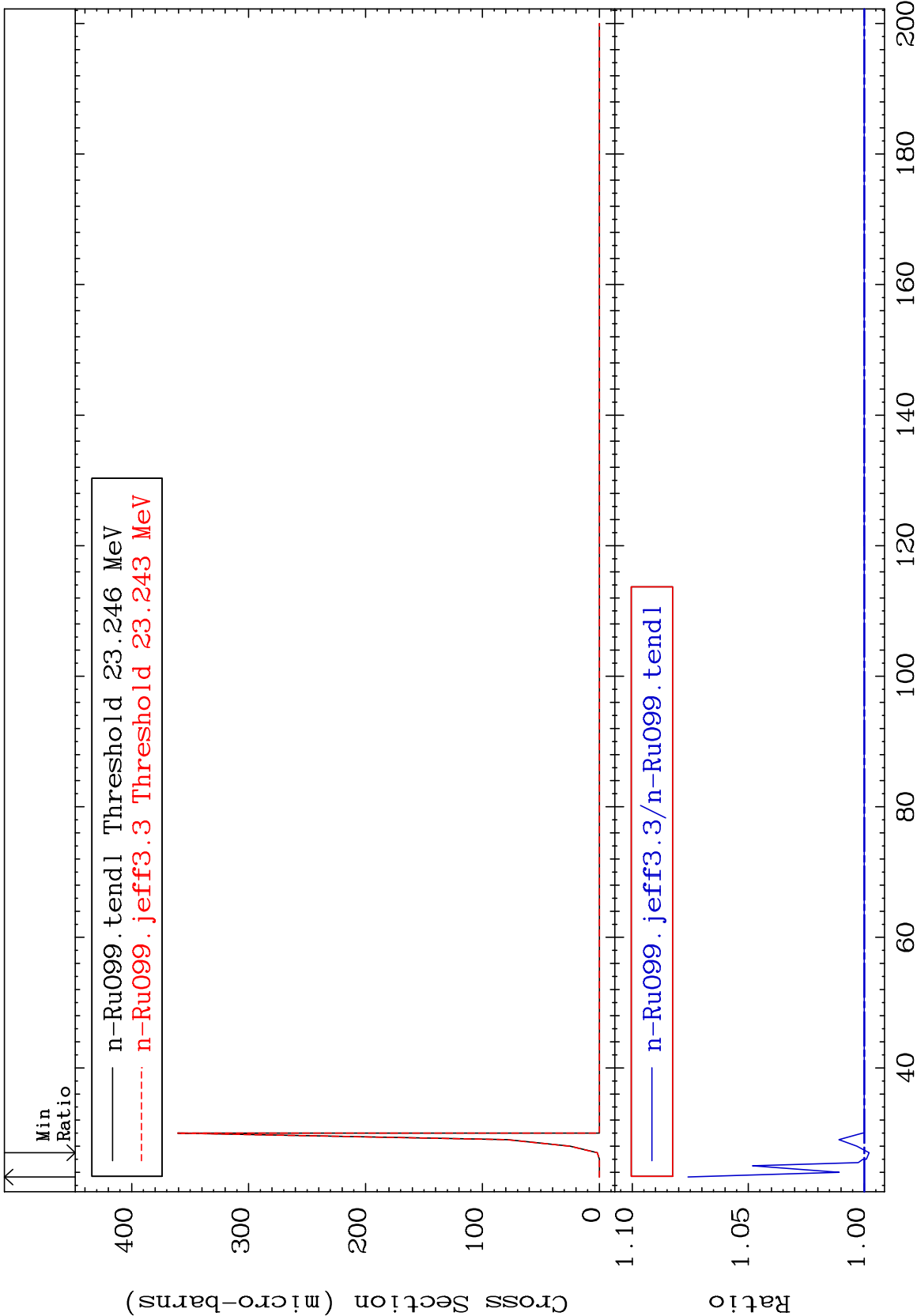
-1.702 To 0.649 %

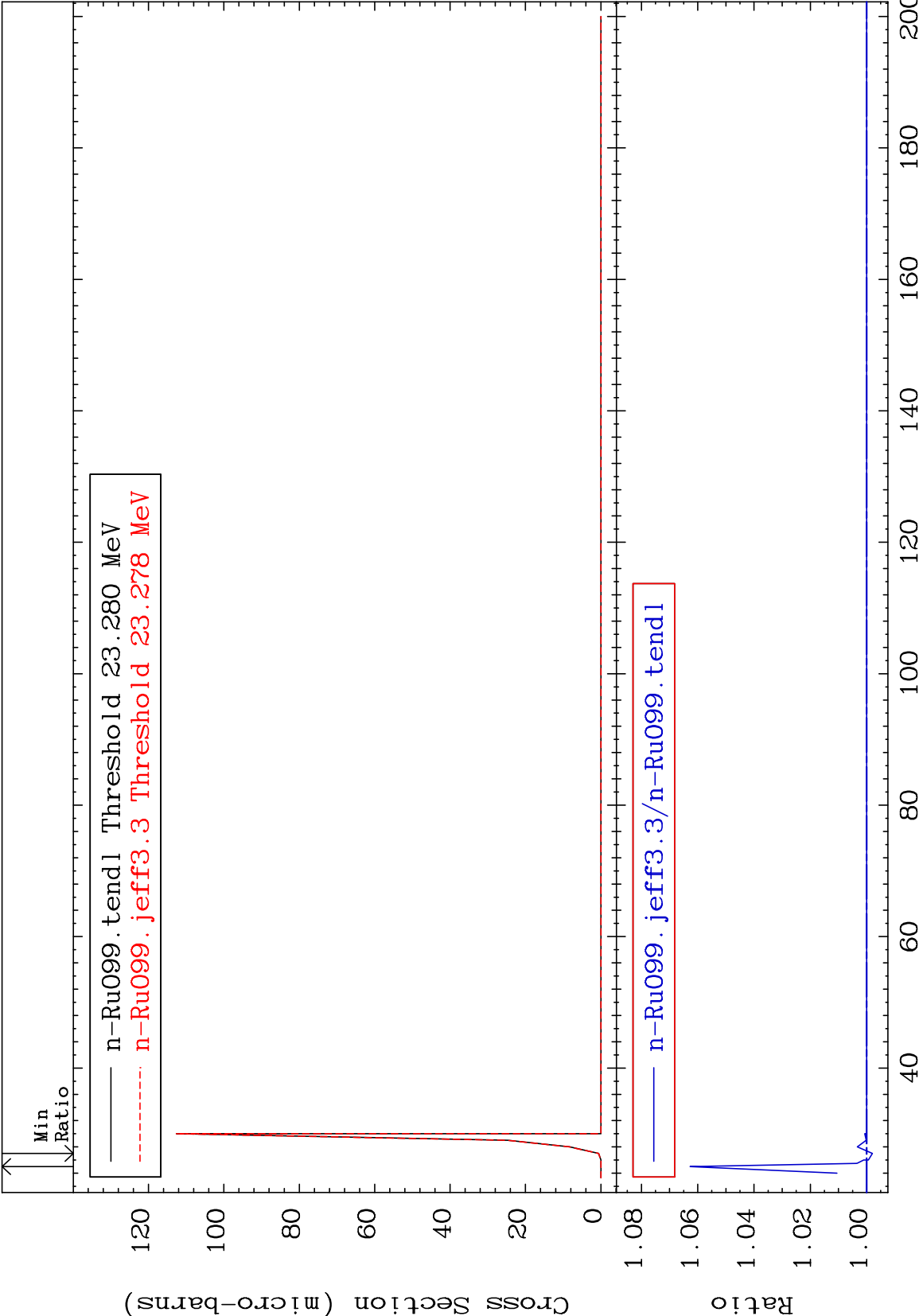




Radionuclide Production Cross Section

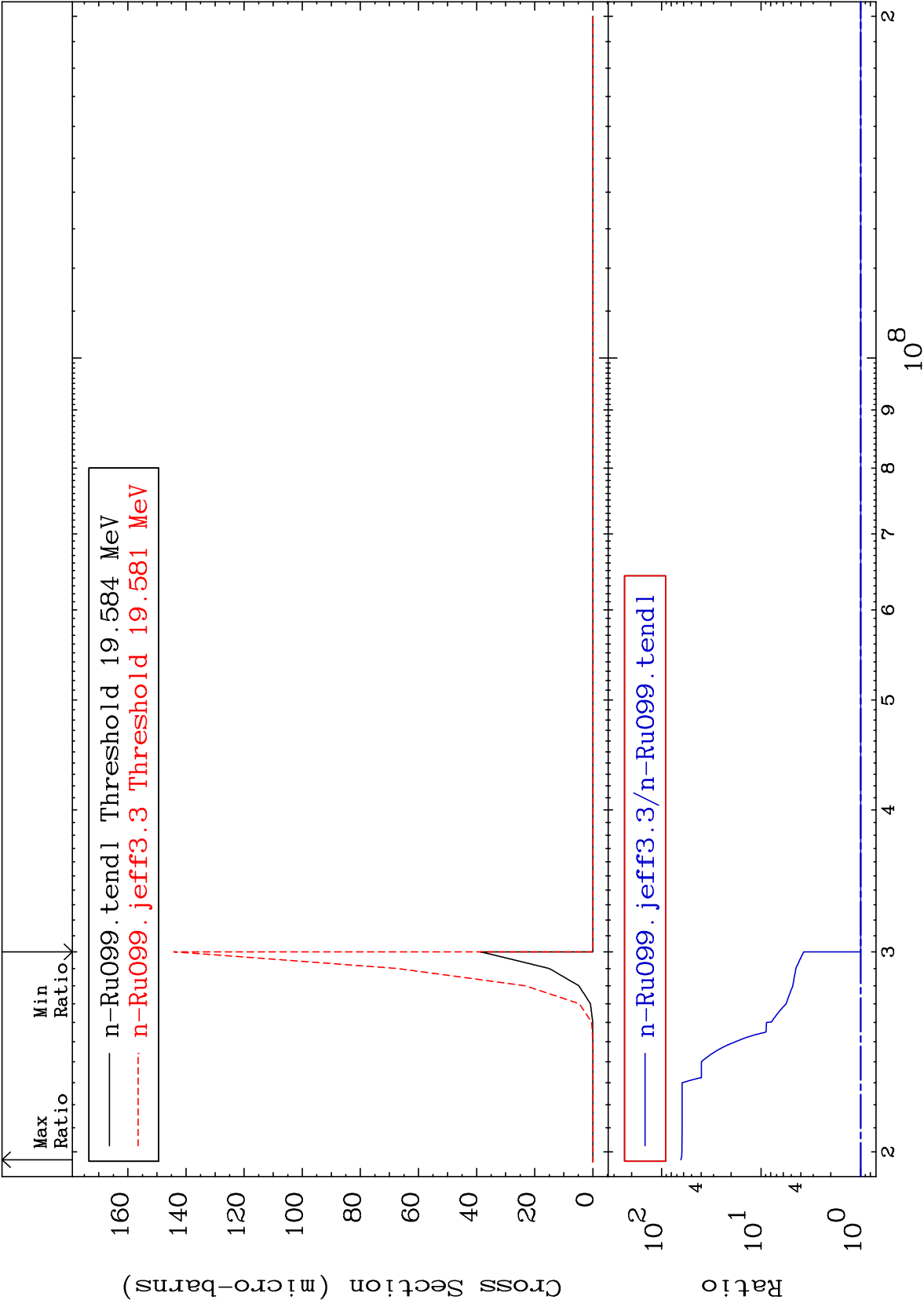
-0.206 To 7.600 %





MAT 4434

(n,3n) α :42-Mo-93g
Radionuclide Production Cross Section 0.000 To 6291. %

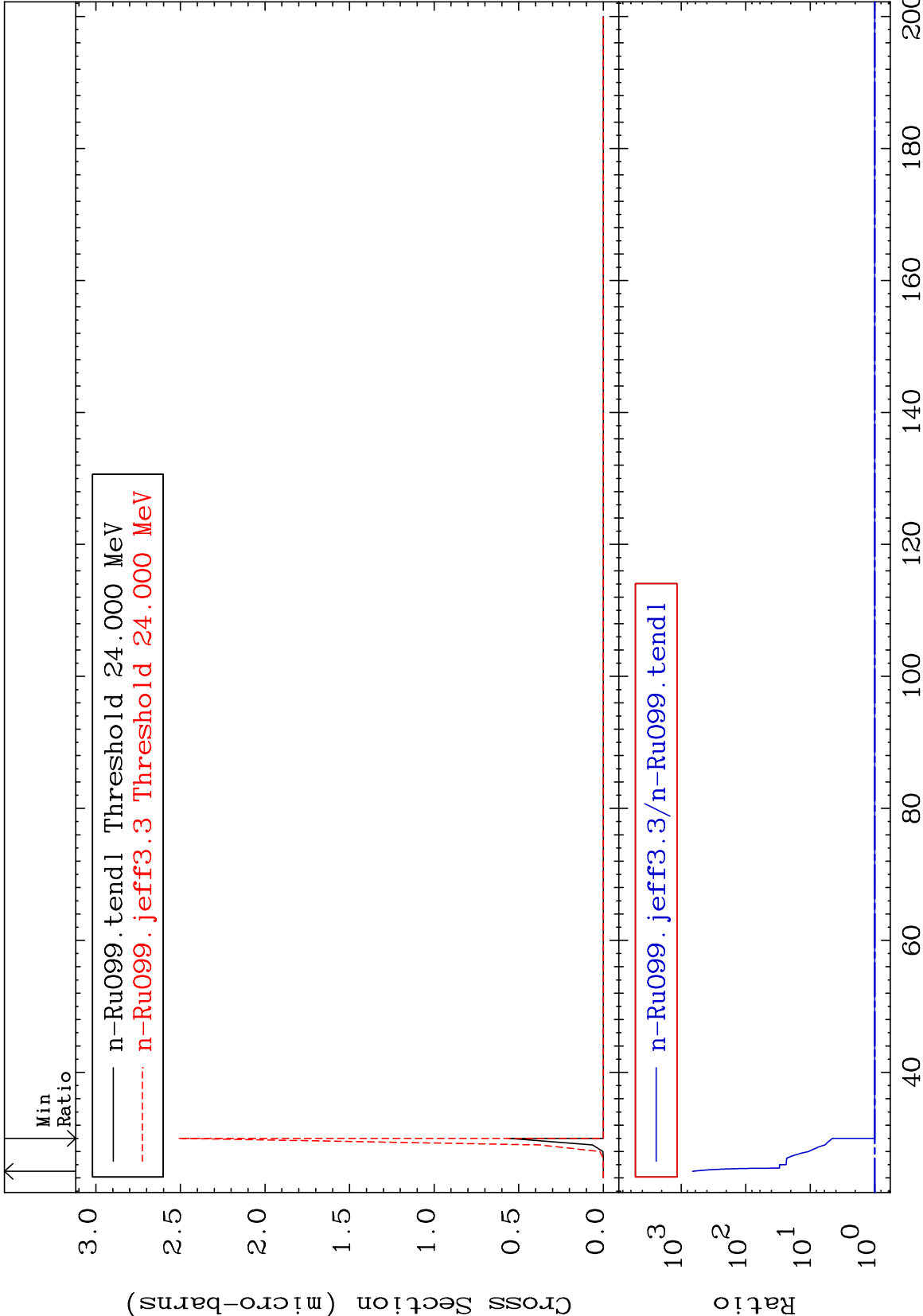


MAT 4434

(n,3n) α :42-Mo-93m16

44-Ru-99

Radionuclide Production Cross Section 0.000 To 9999. %



MAT 4434

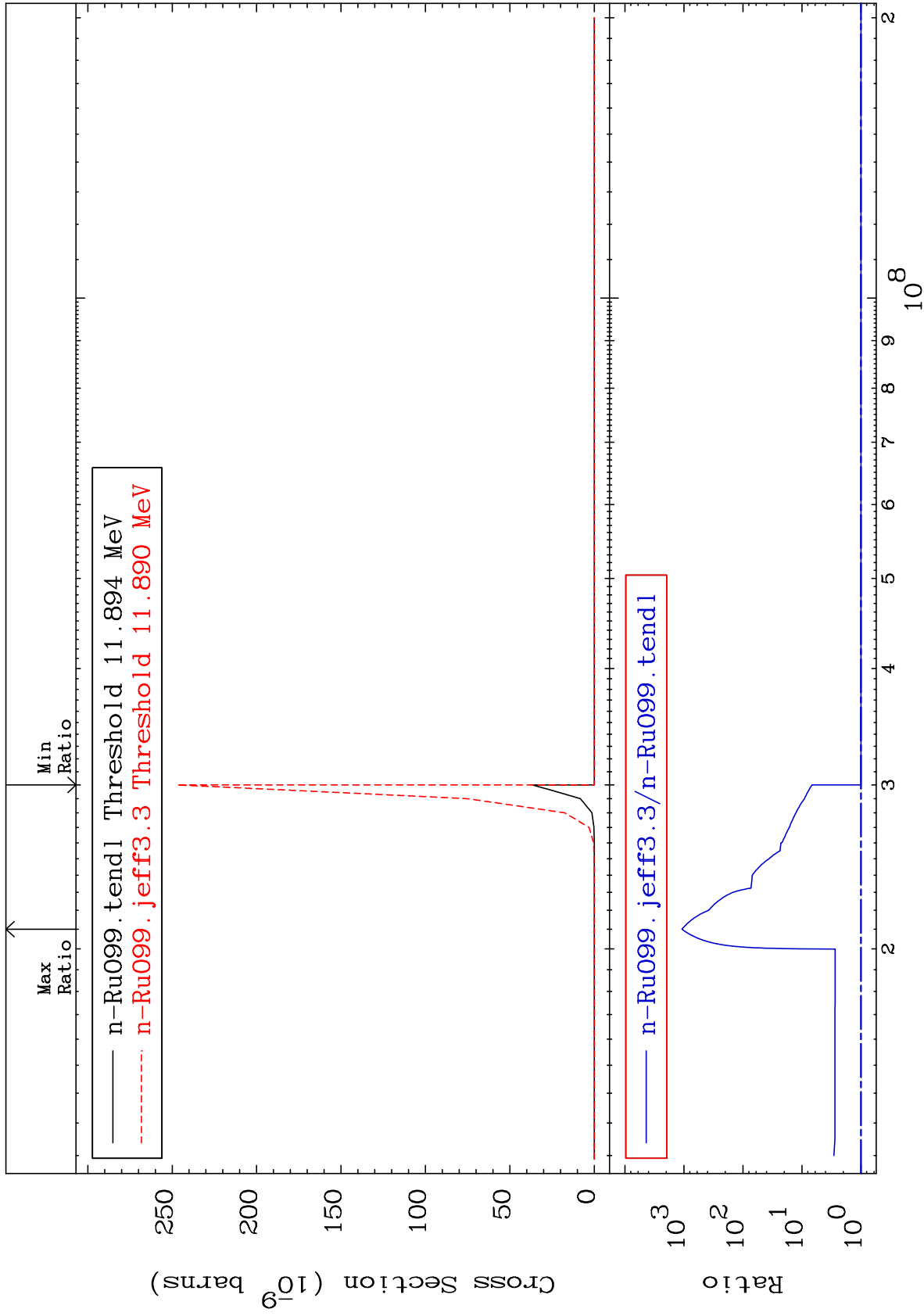
44-Ru-99

(n,2n) 2α:40-Zr-90g

Radionuclide Production Cross Section

0.000

To 9999. %



MAT 4434

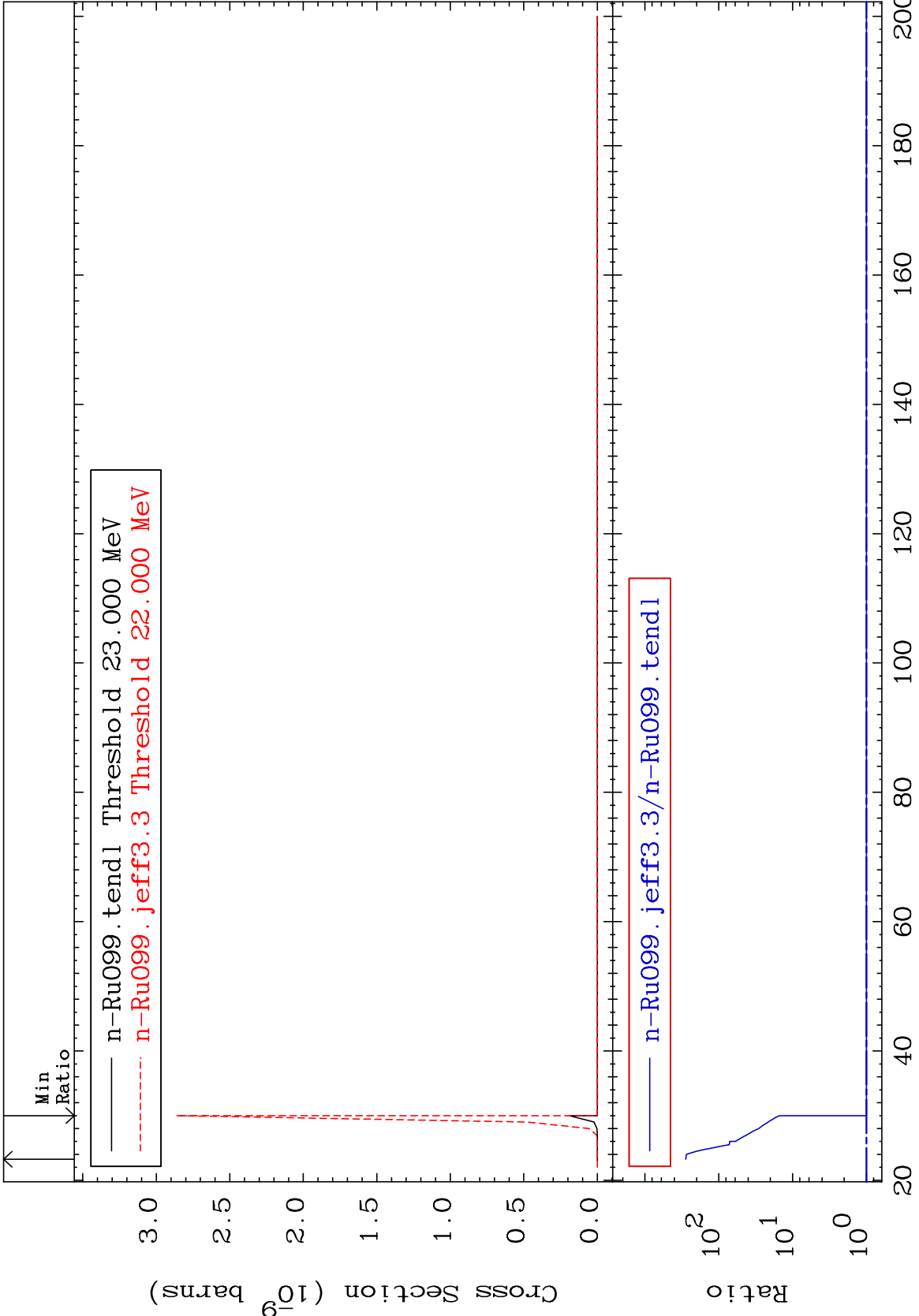
(n,2n) 2α:40-Zr-90m3

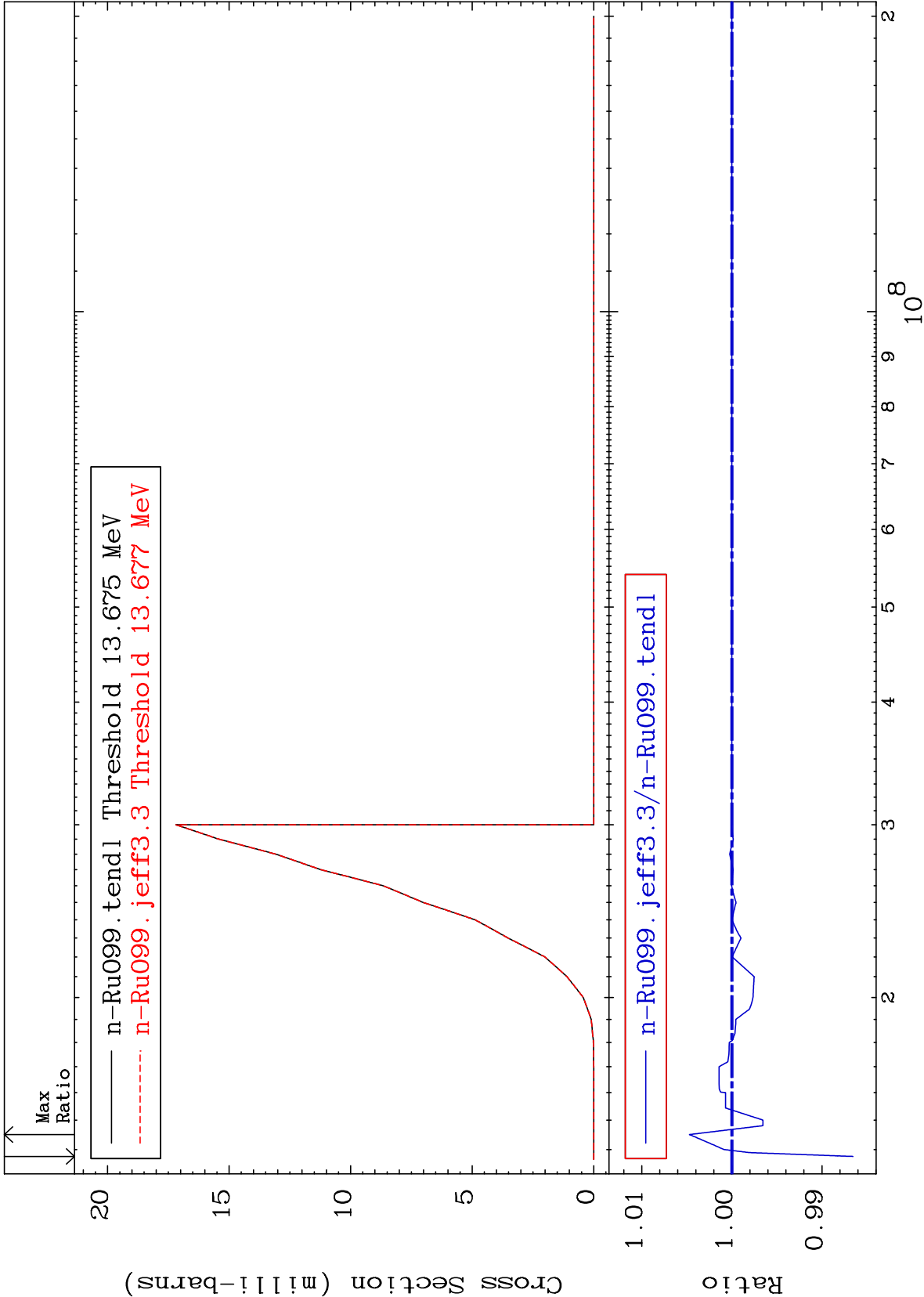
44-Ru-99

Radionuclide Production Cross Section

0.000

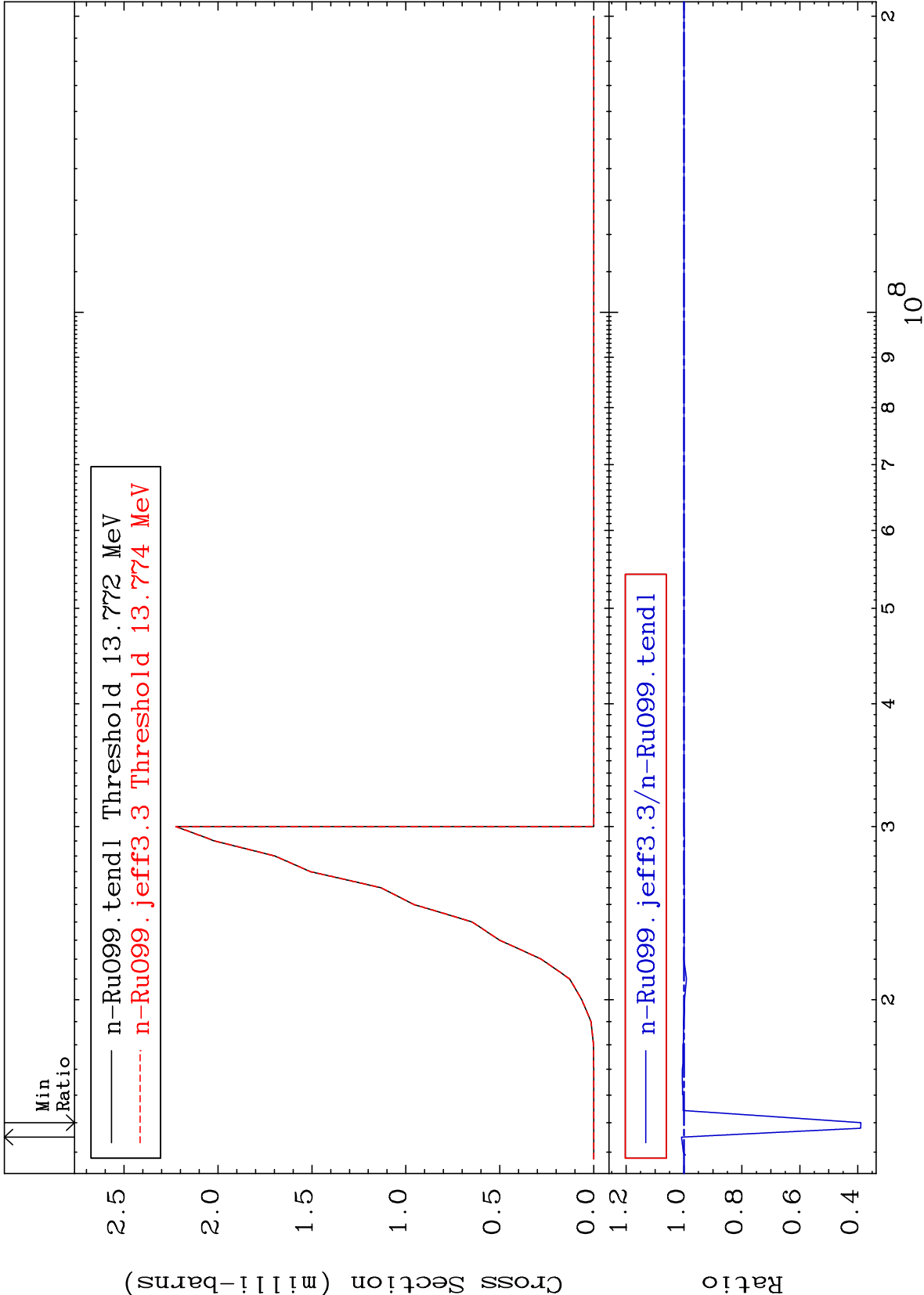
To 9999. %

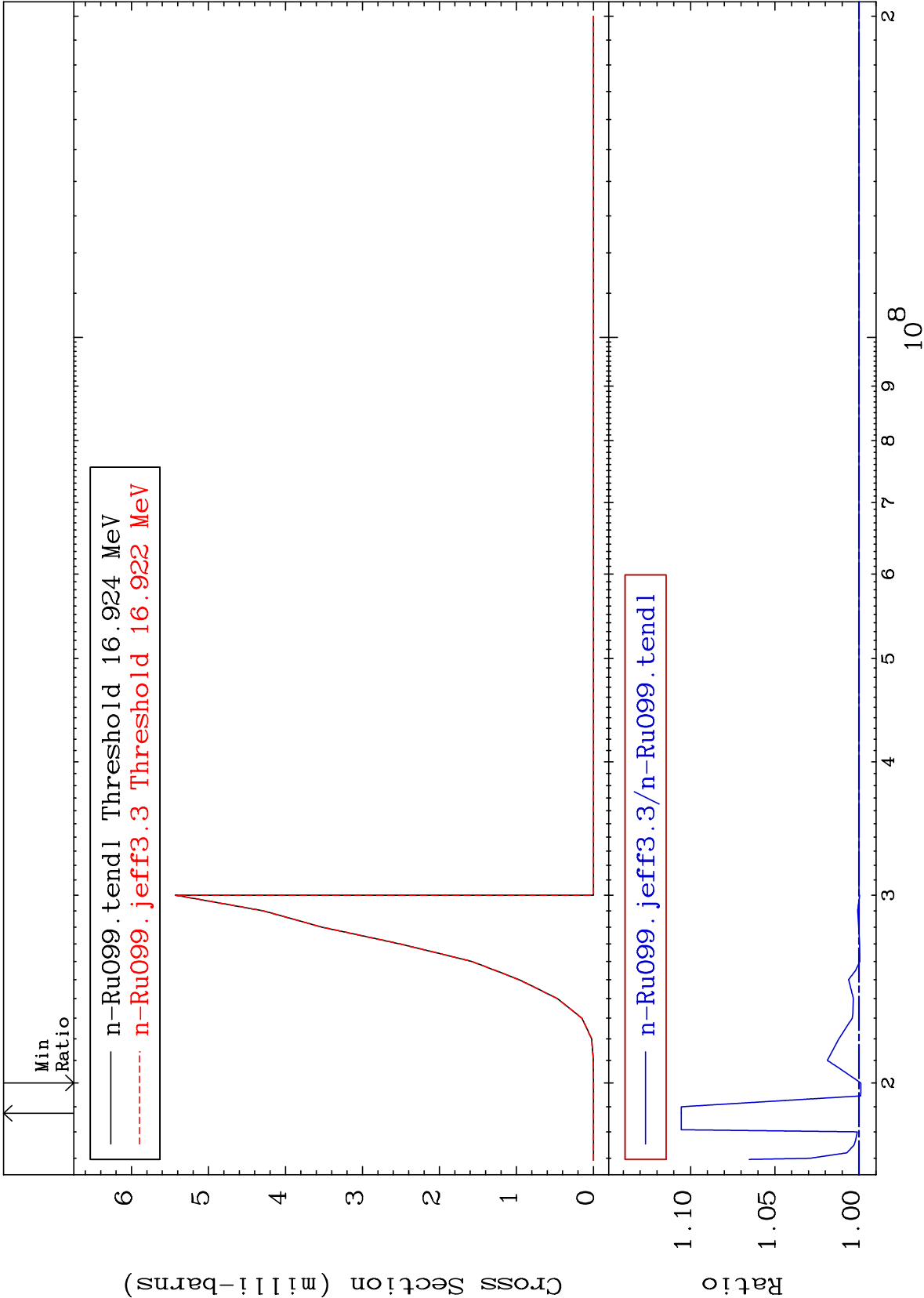




Radionuclide Production Cross Section

-61.10 To 0.858 %





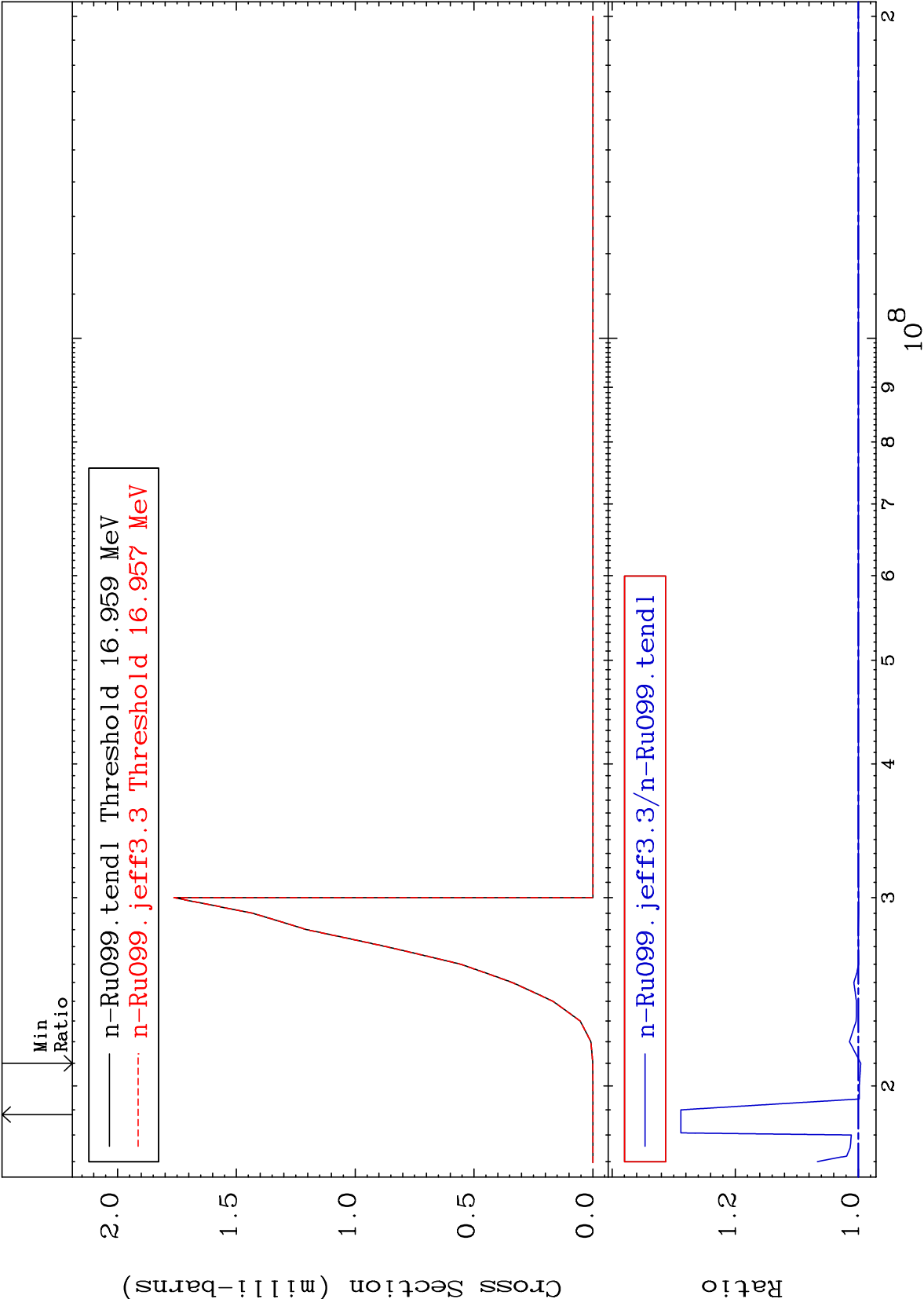
MAT 4434

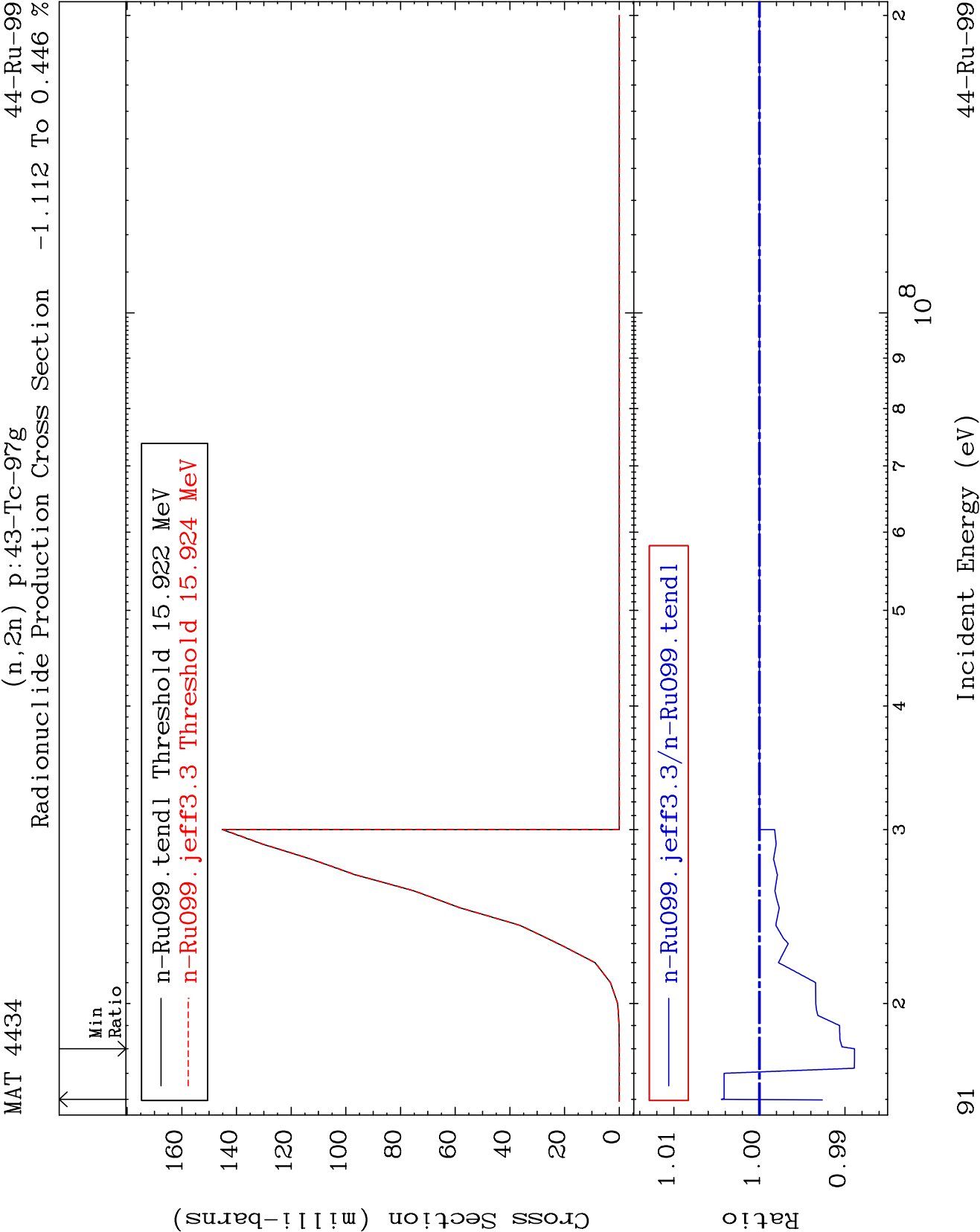
(n,n') t:43-Tc-96m1

44-Ru-99

Radionuclide Production Cross Section

-0.390 To 28.82 %





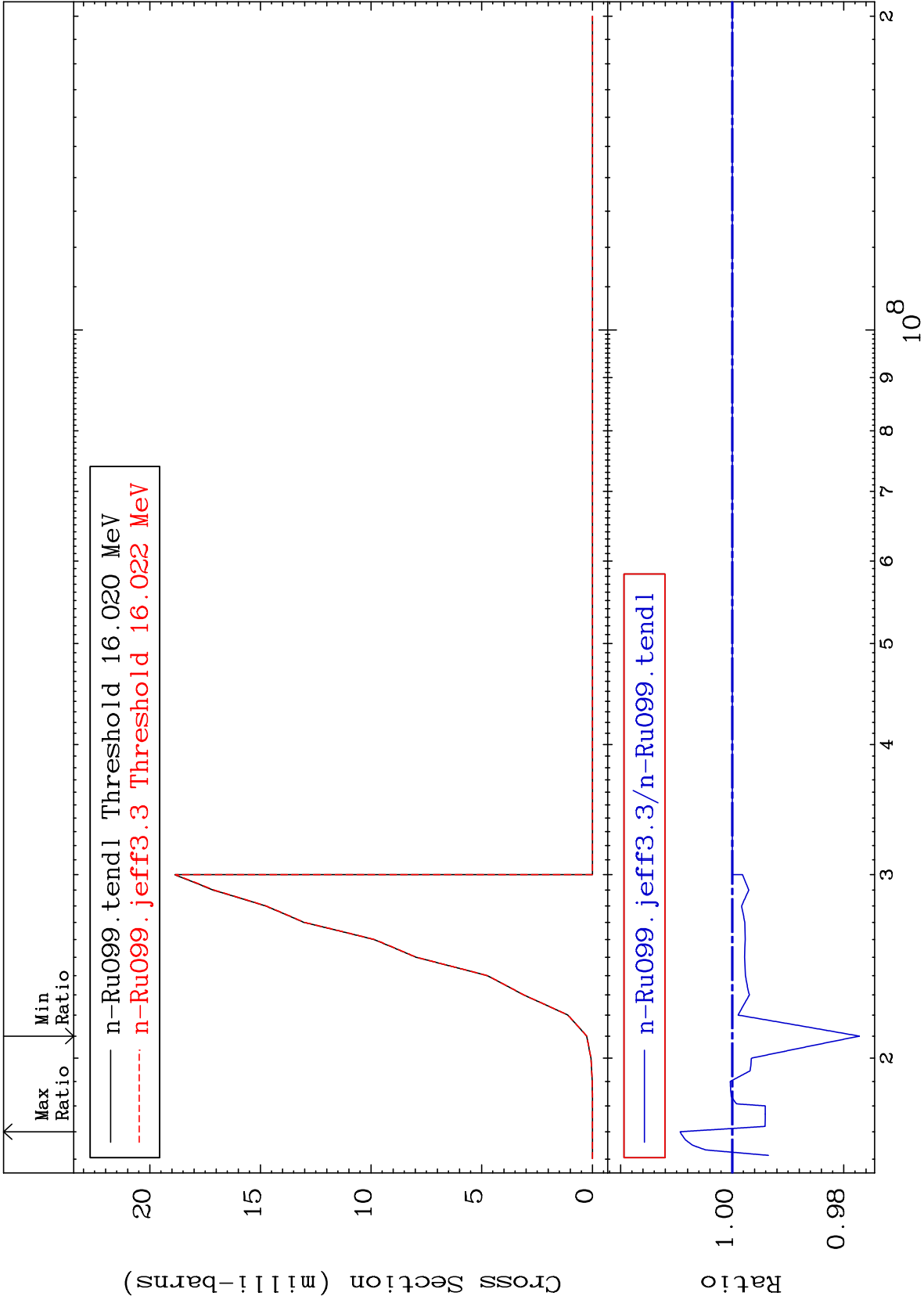
MAT 4434

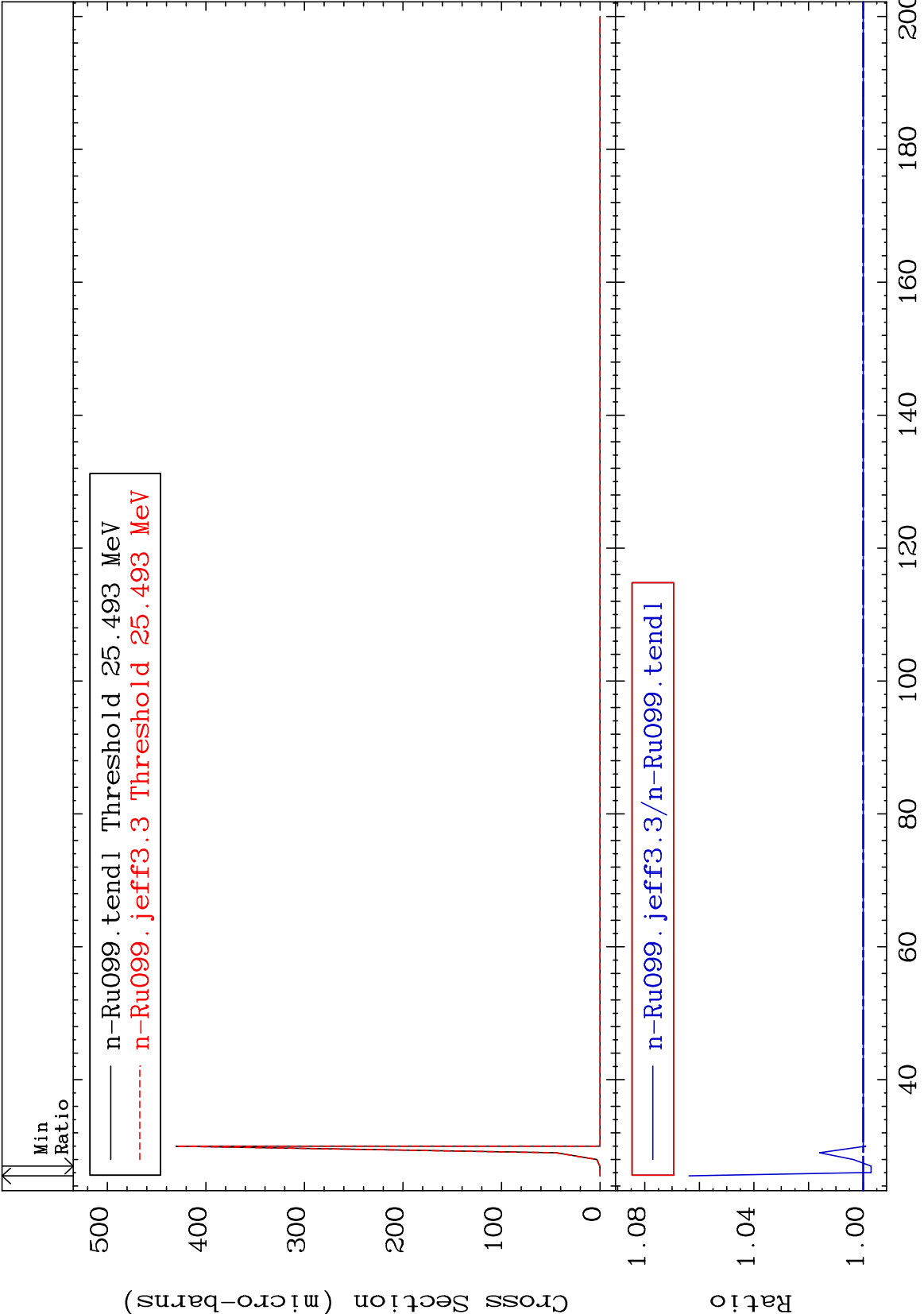
(n,2n) p:43-Tc-97m1

44-Ru-99

Radionuclide Production Cross Section

-2.279 To 0.934 %





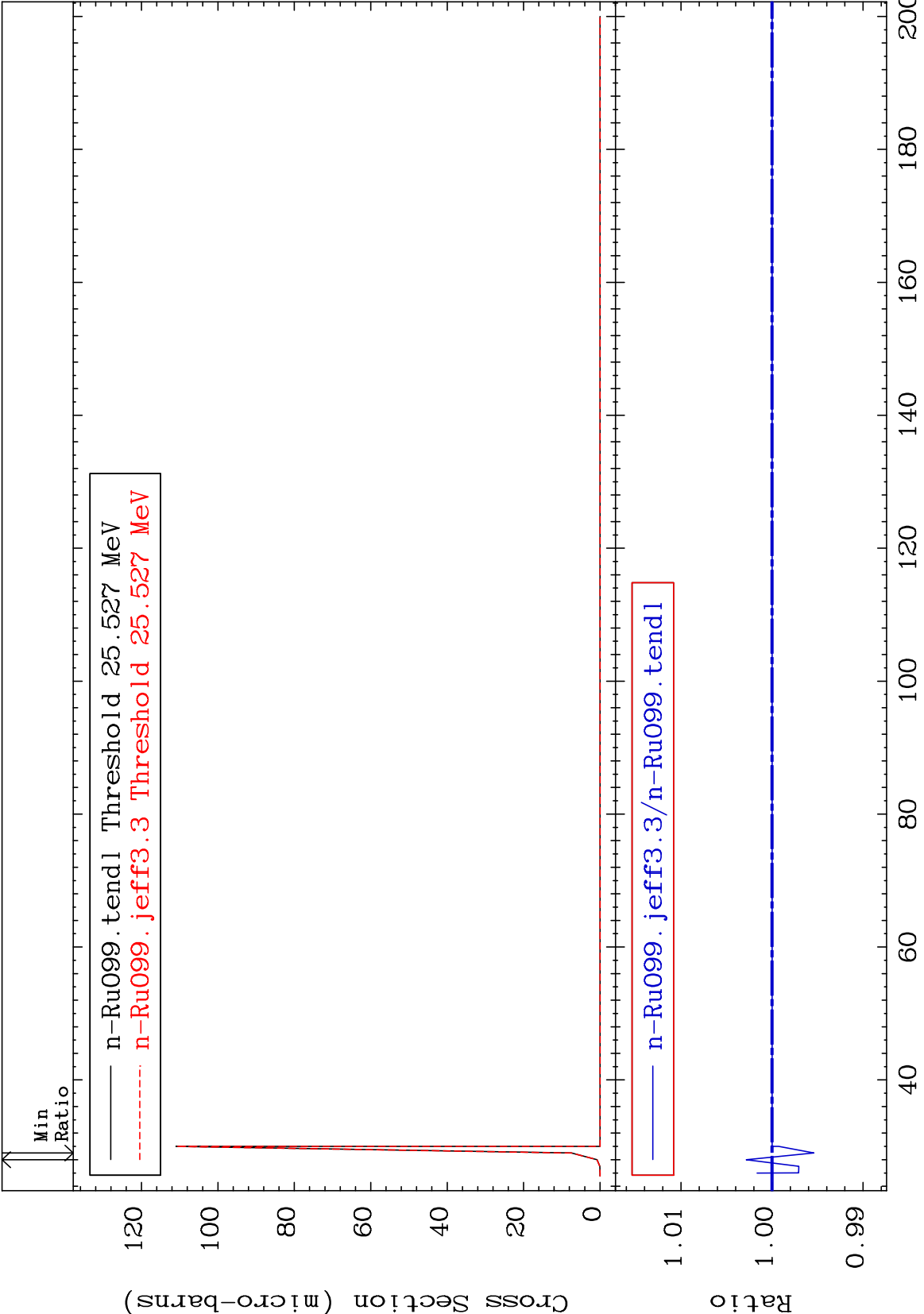
MAT 4434

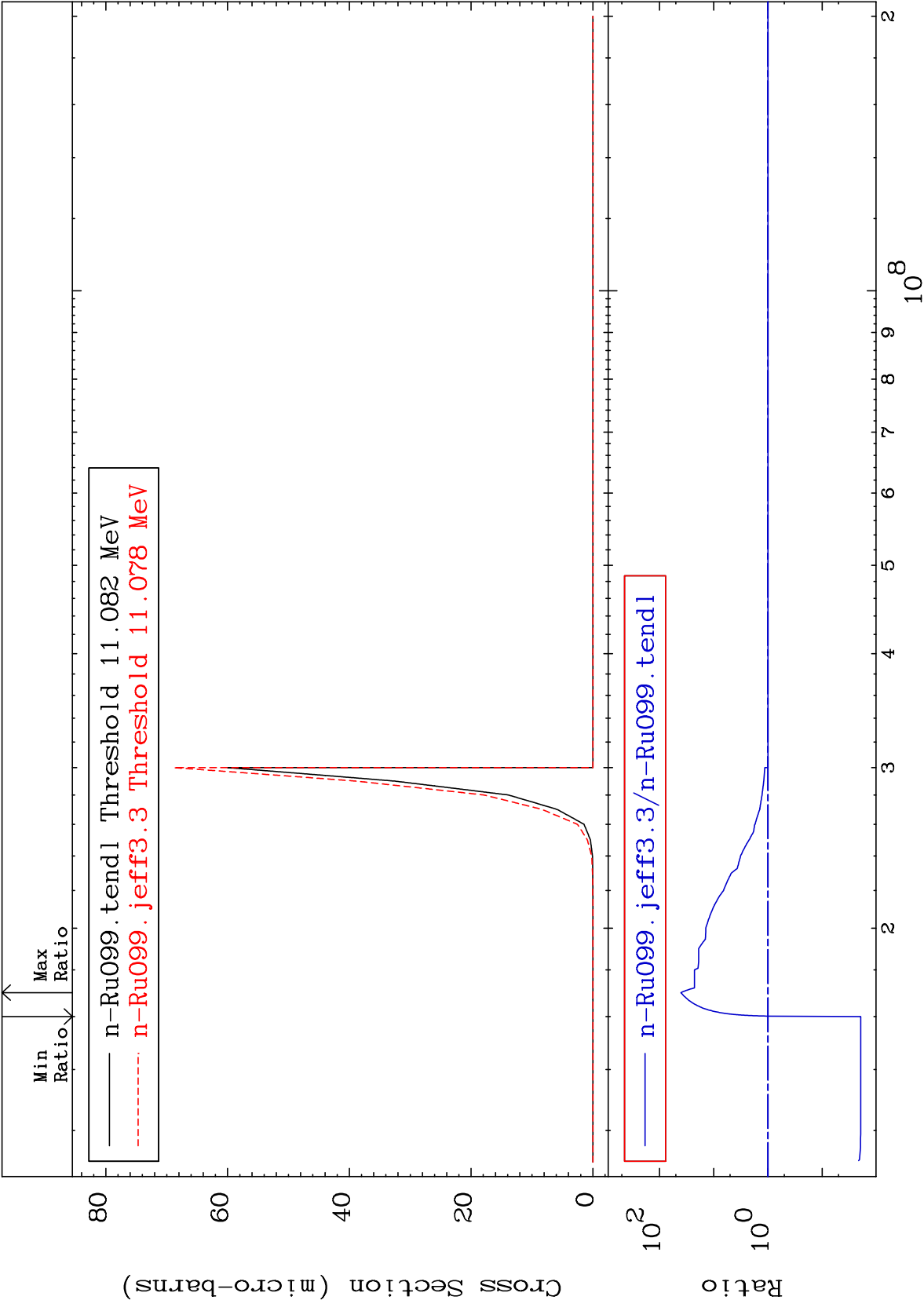
(n,3n) p:43-Tc-96m1

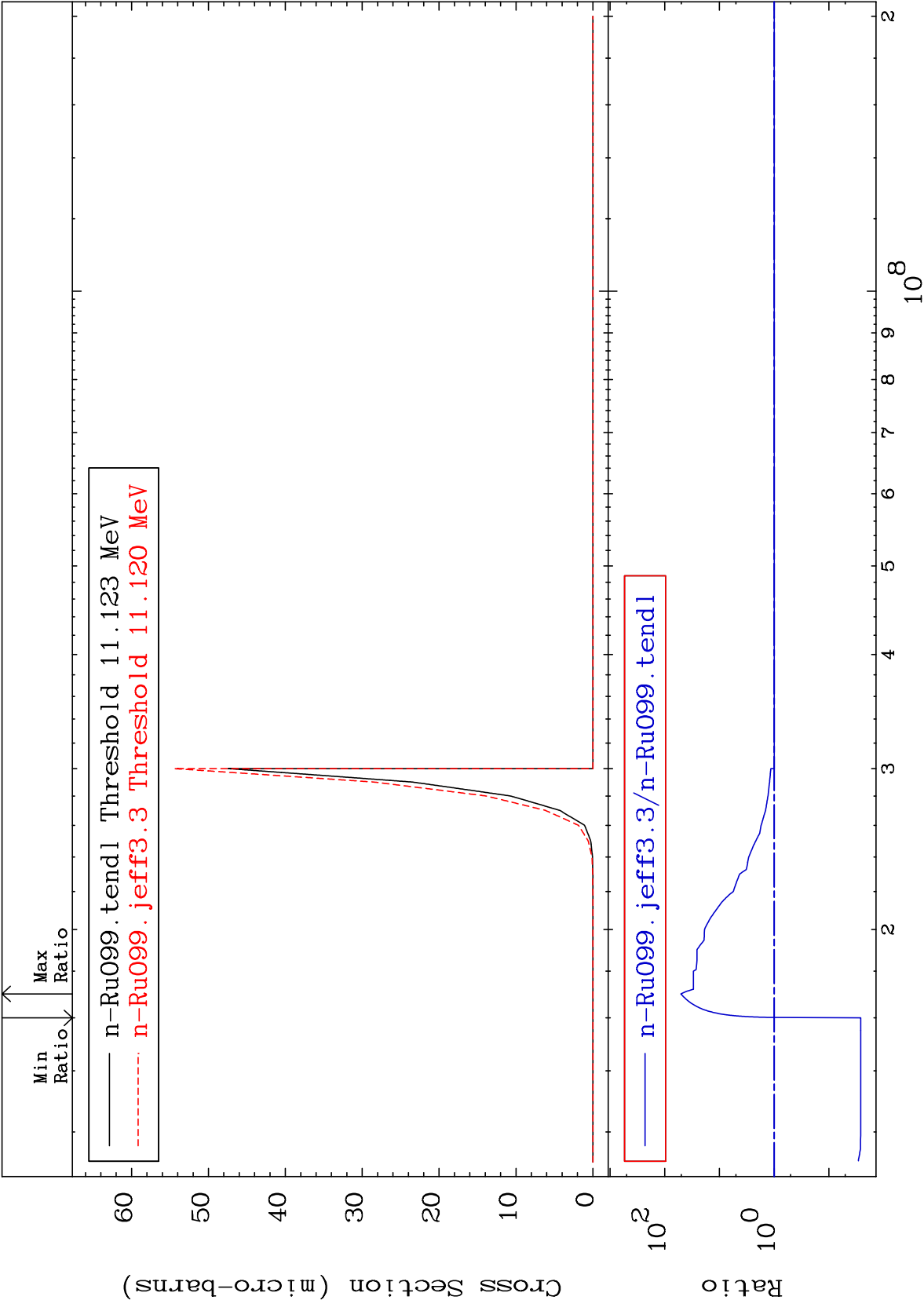
44-Ru-99

Radionuclide Production Cross Section

-0.459 To 0.282 %







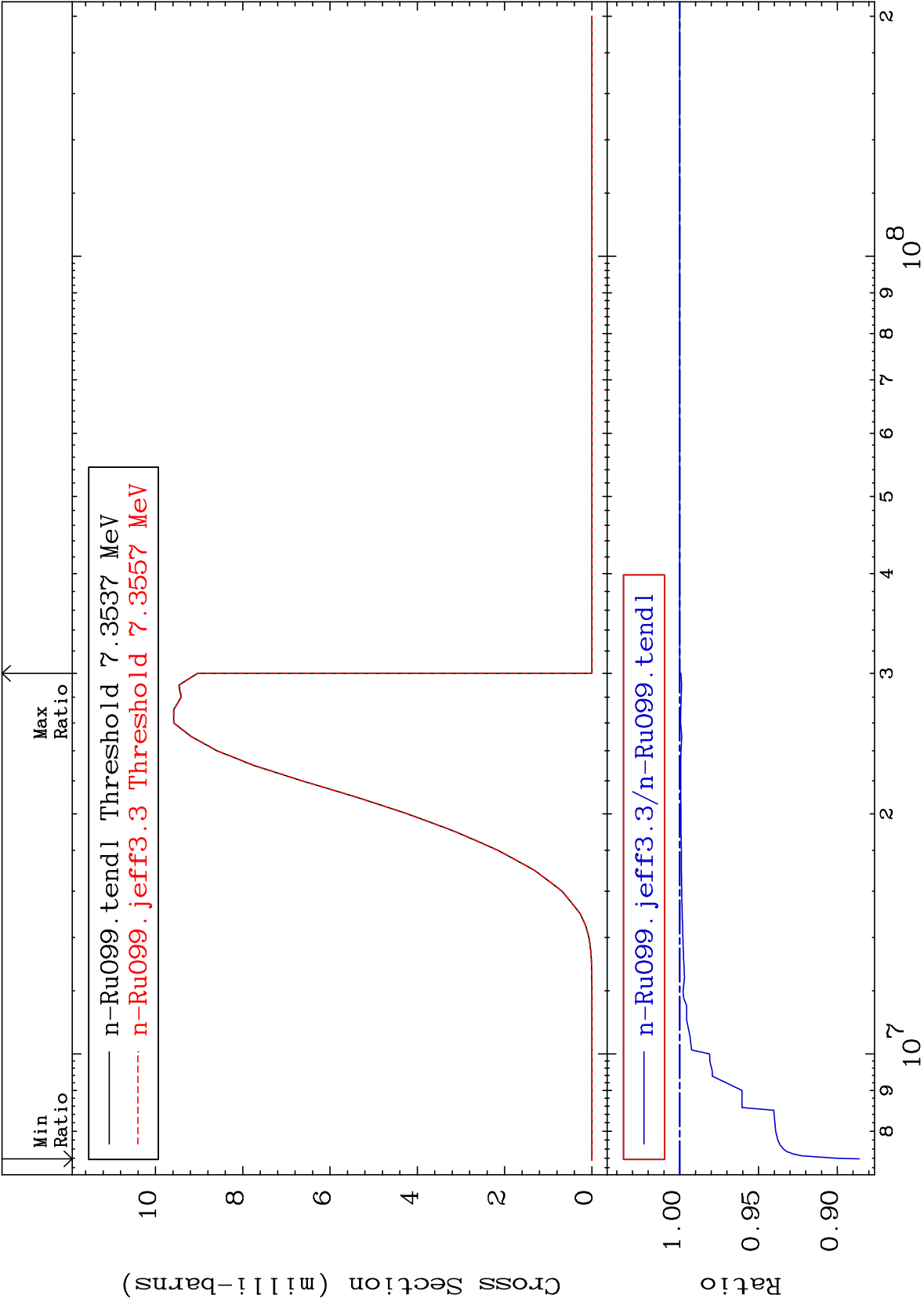
MAT 4434

44-Ru-99

(n, t): 43-Tc-97g

Radionuclide Production Cross Section

-11.39 To 0.000 %



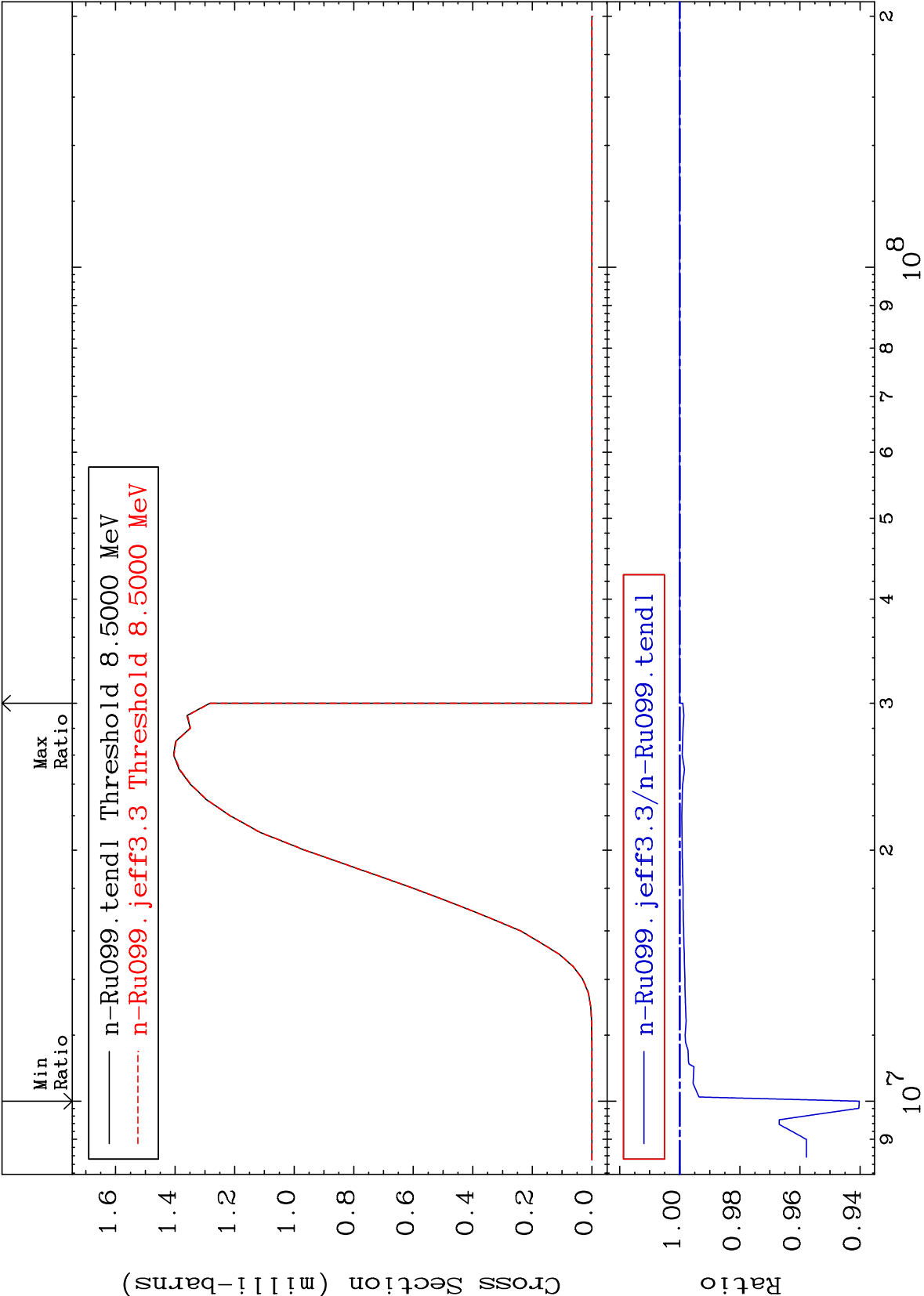
MAT 4434

(n,t):43-Tc-97m1

44-Ru-99

Radionuclide Production Cross Section

-5.975 To 0.000 %

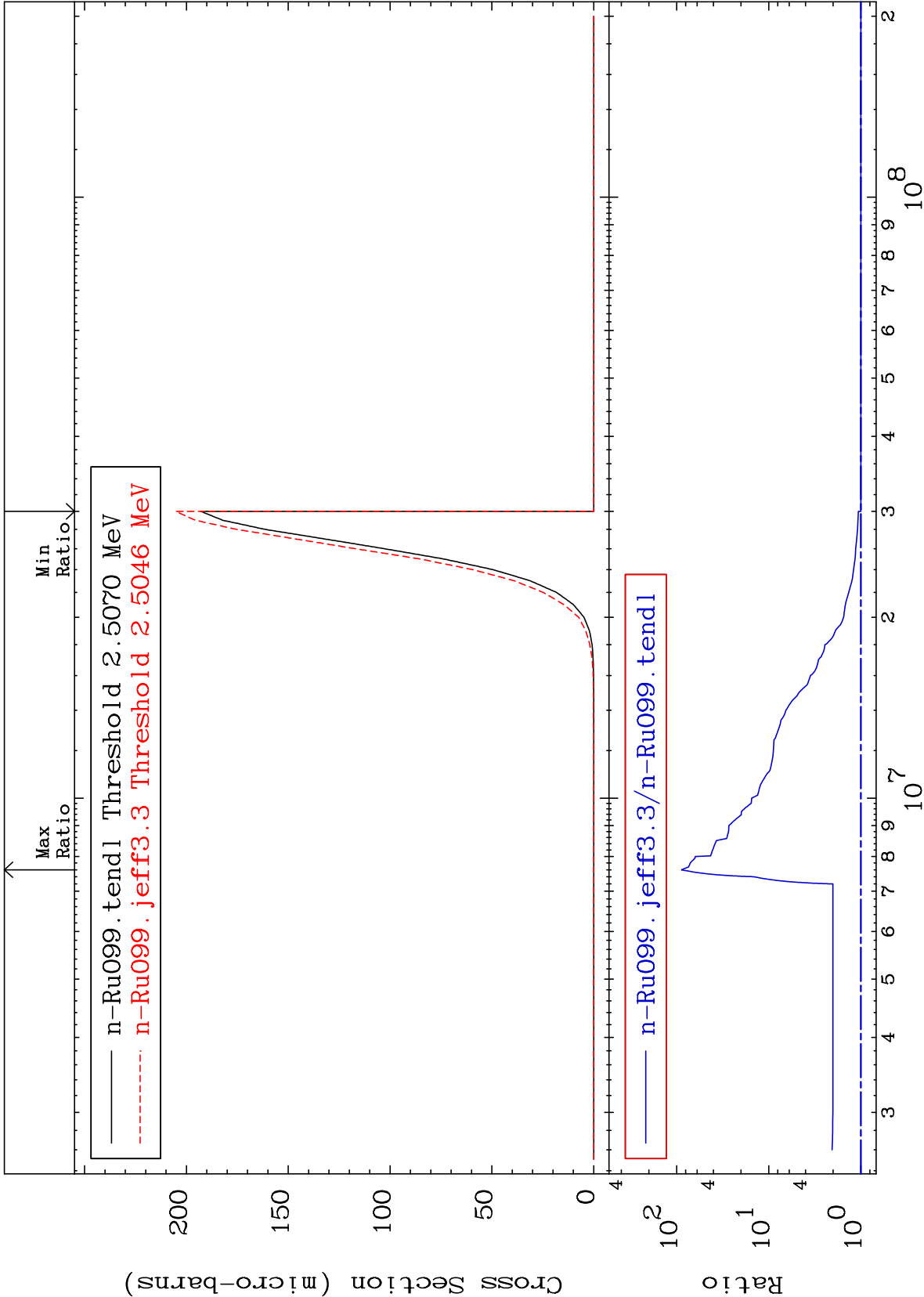


MAT 4434

(n,p) α : 41-Nb-95g

44-Ru-99

Radionuclide Production Cross Section 0.000 To 8762. %

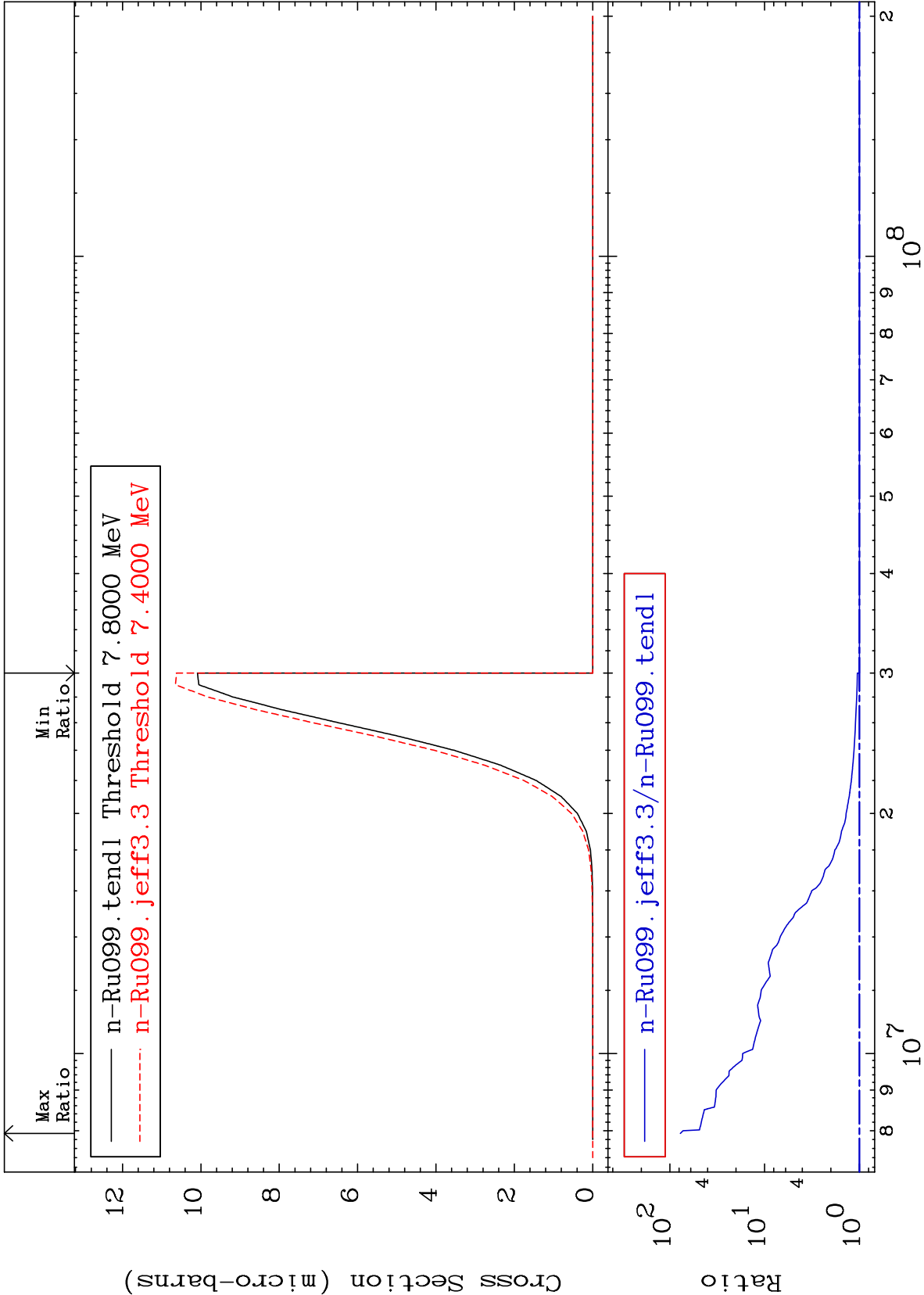


MAT 4434

(n,p) α :41-Nb-95m1

44-Ru-99

Radionuclide Production Cross Section 0.000 To 7638. %



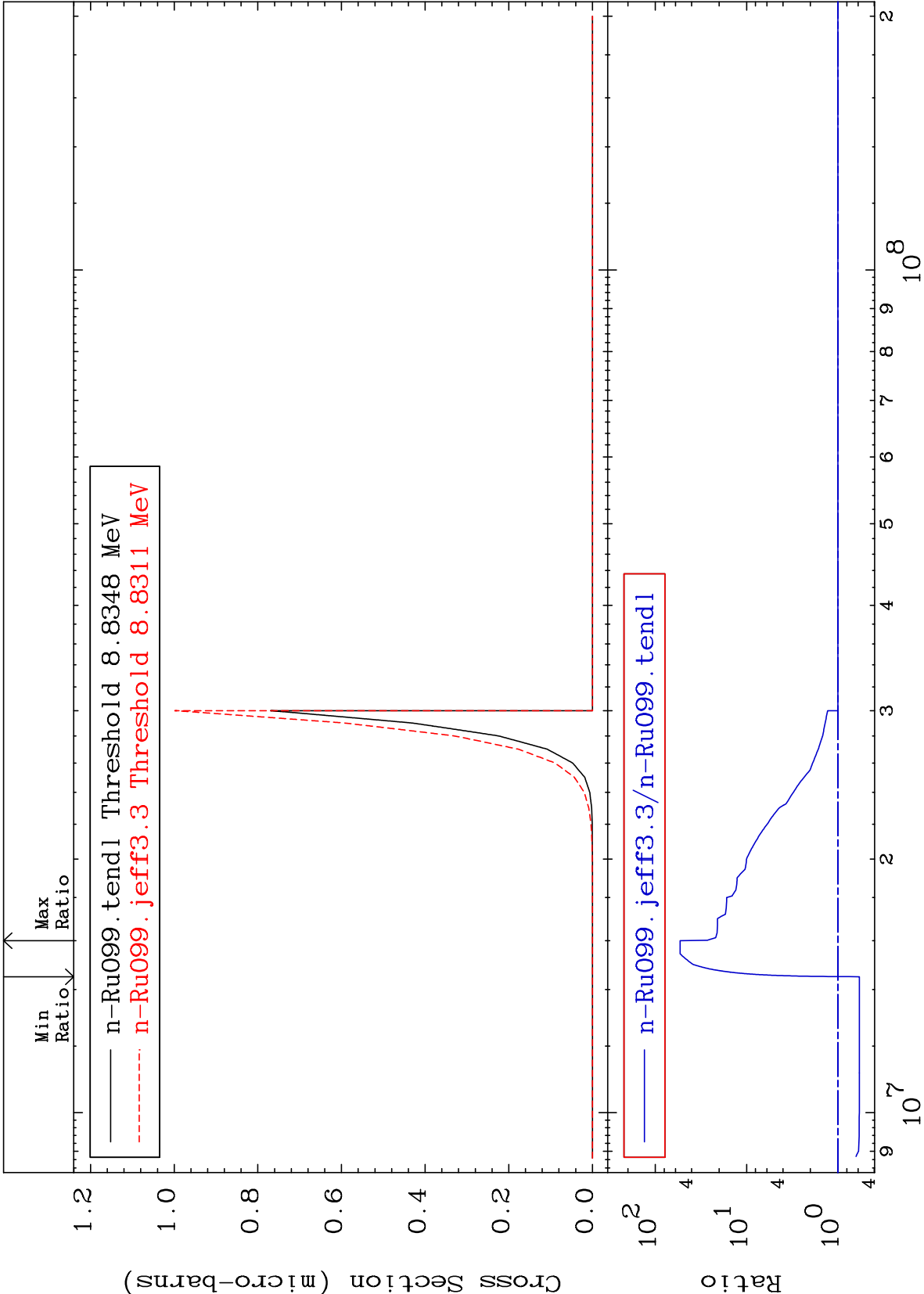
MAT 4434

(n,d) α :41-Nb-94g

44-Ru-99

Radionuclide Production Cross Section

-41.82 To 5247. %



MAT 4434

(n,d) α :41-Nb-94m1

44-Ru-99

Radionuclide Production Cross Section

-31.17 To 8745. %

