

Program Complot
(Version 2018-1)

by

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Press Mouse Button to Start

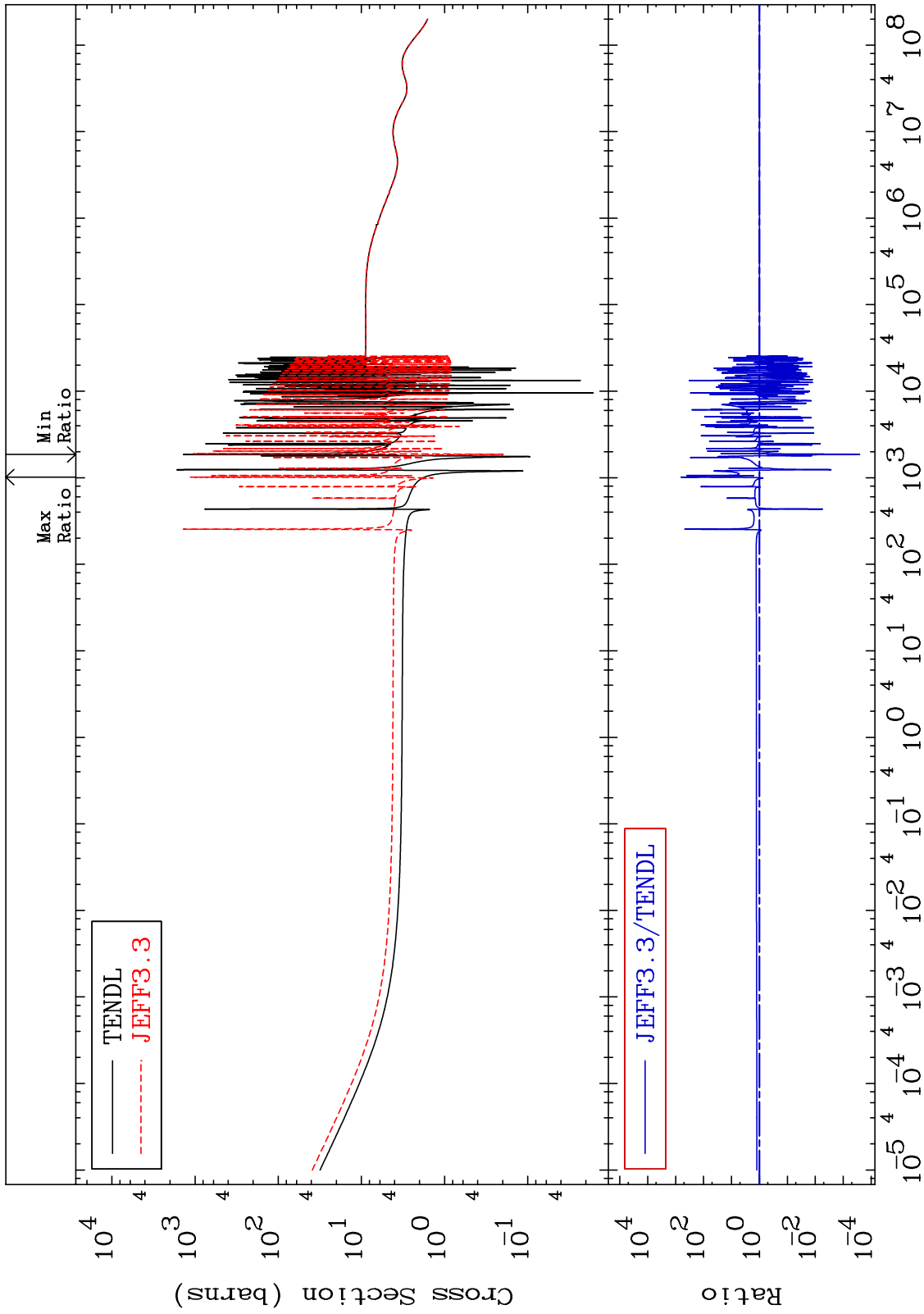
MAT 4425

Total

44-Ru-96

Cross Section

-99.97 To 9999. %



1

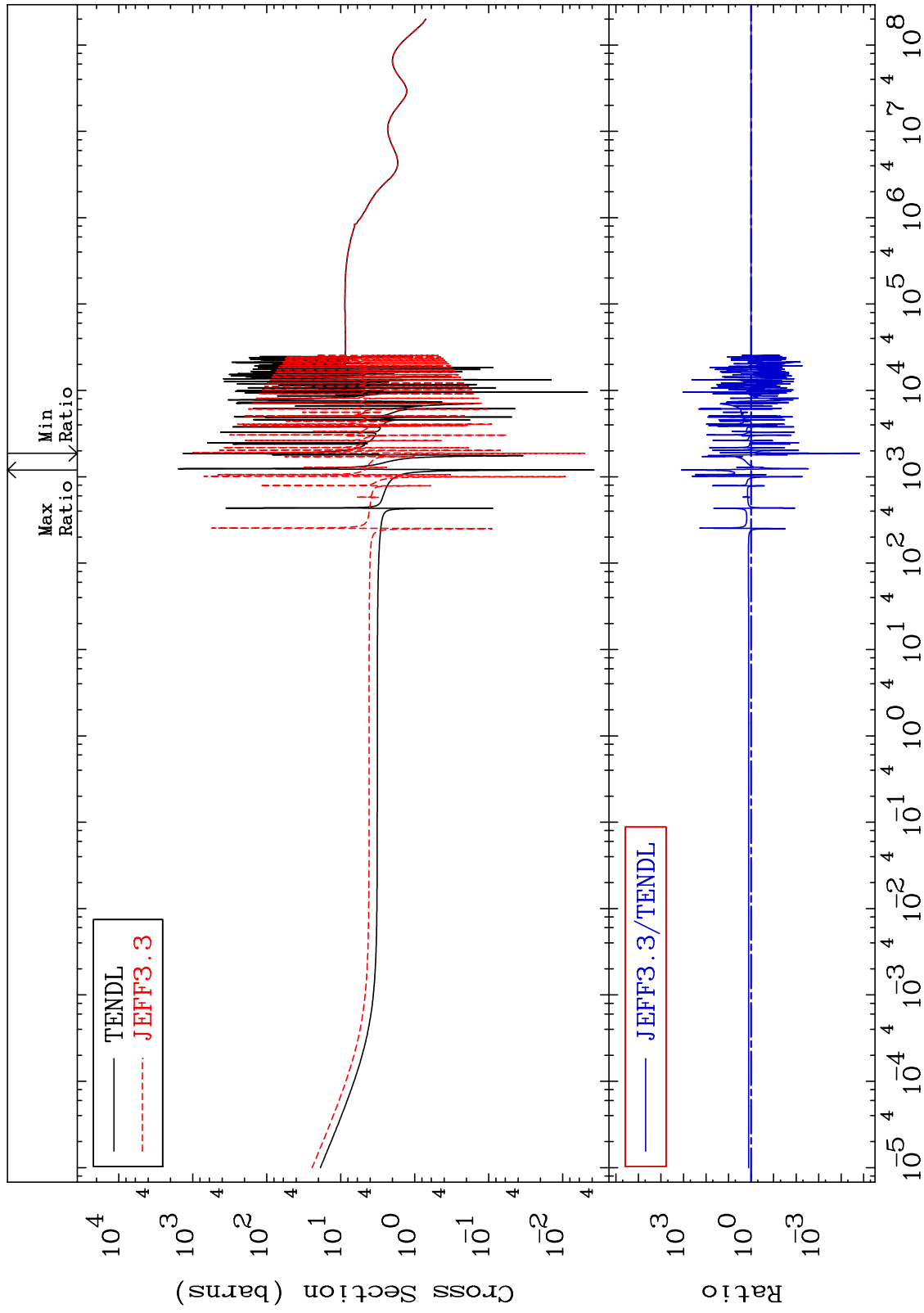
Incident Energy (eV)

44-Ru-96

MAT 4425

Elastic
Cross Section

44-Ru-96
-100.0 To 9999. %



2

Incident Energy (eV)

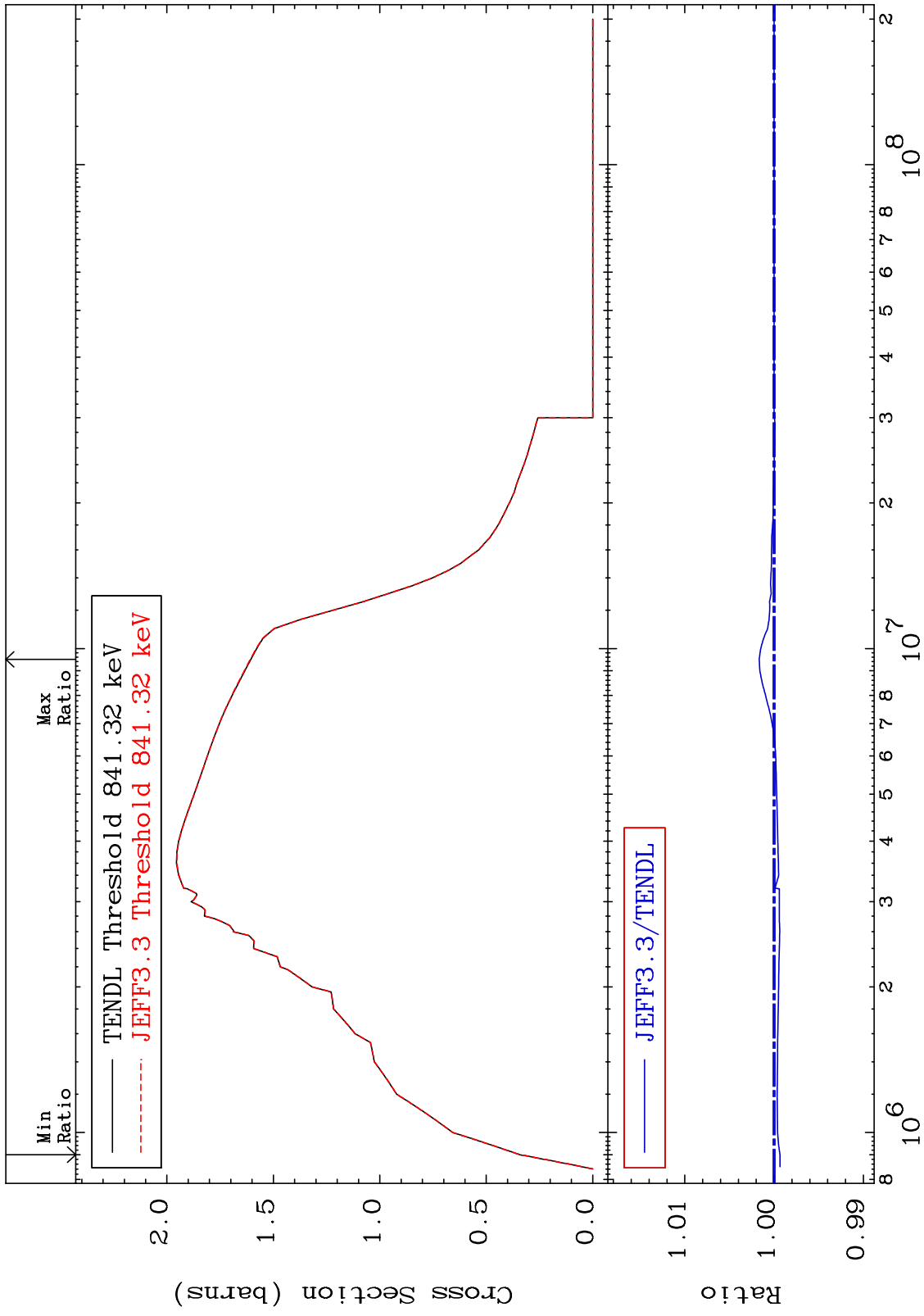
44-Ru-96

MAT 4425

Inelastic
Cross Section

44-Ru-96

-0.065 To 0.167 %

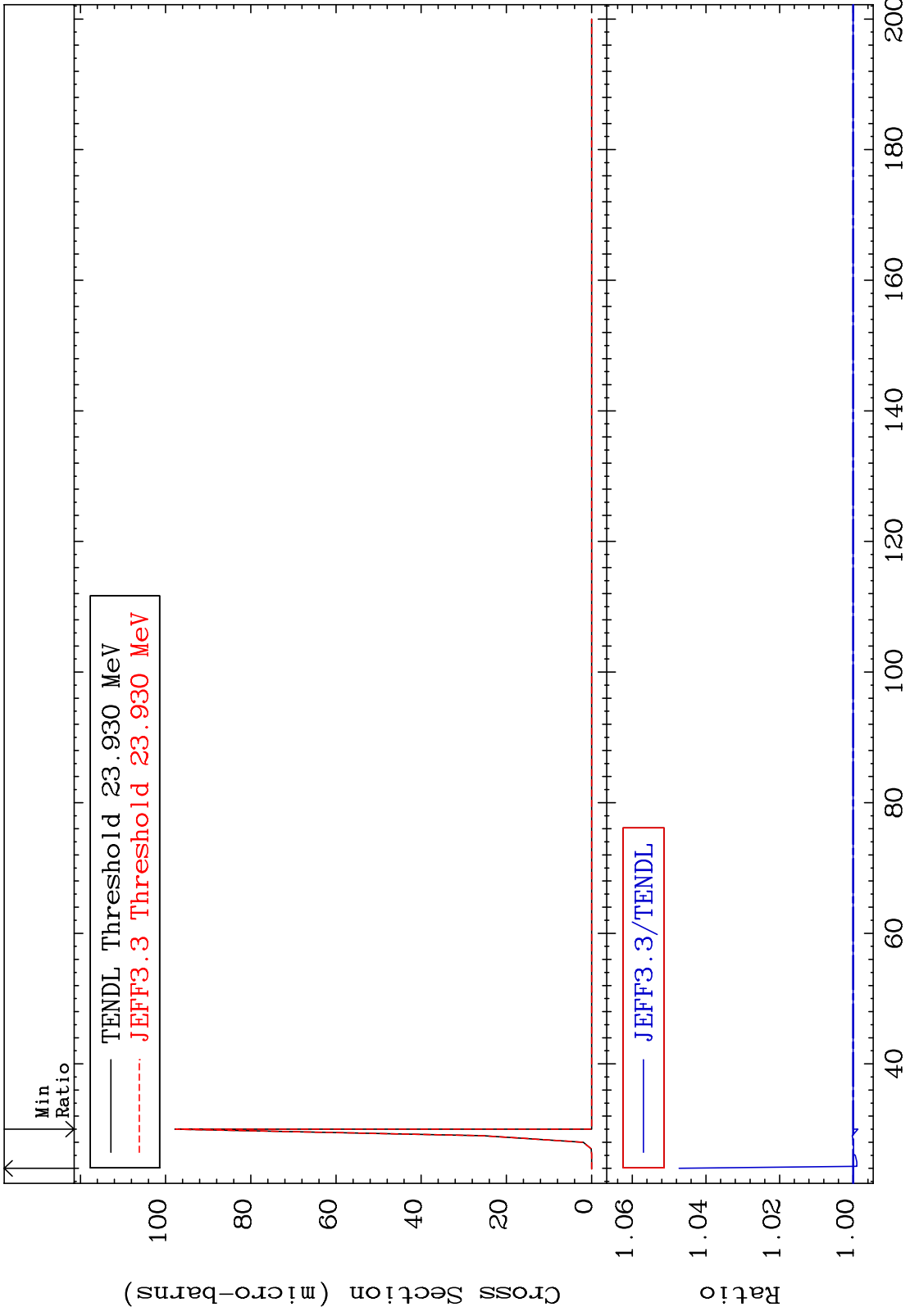


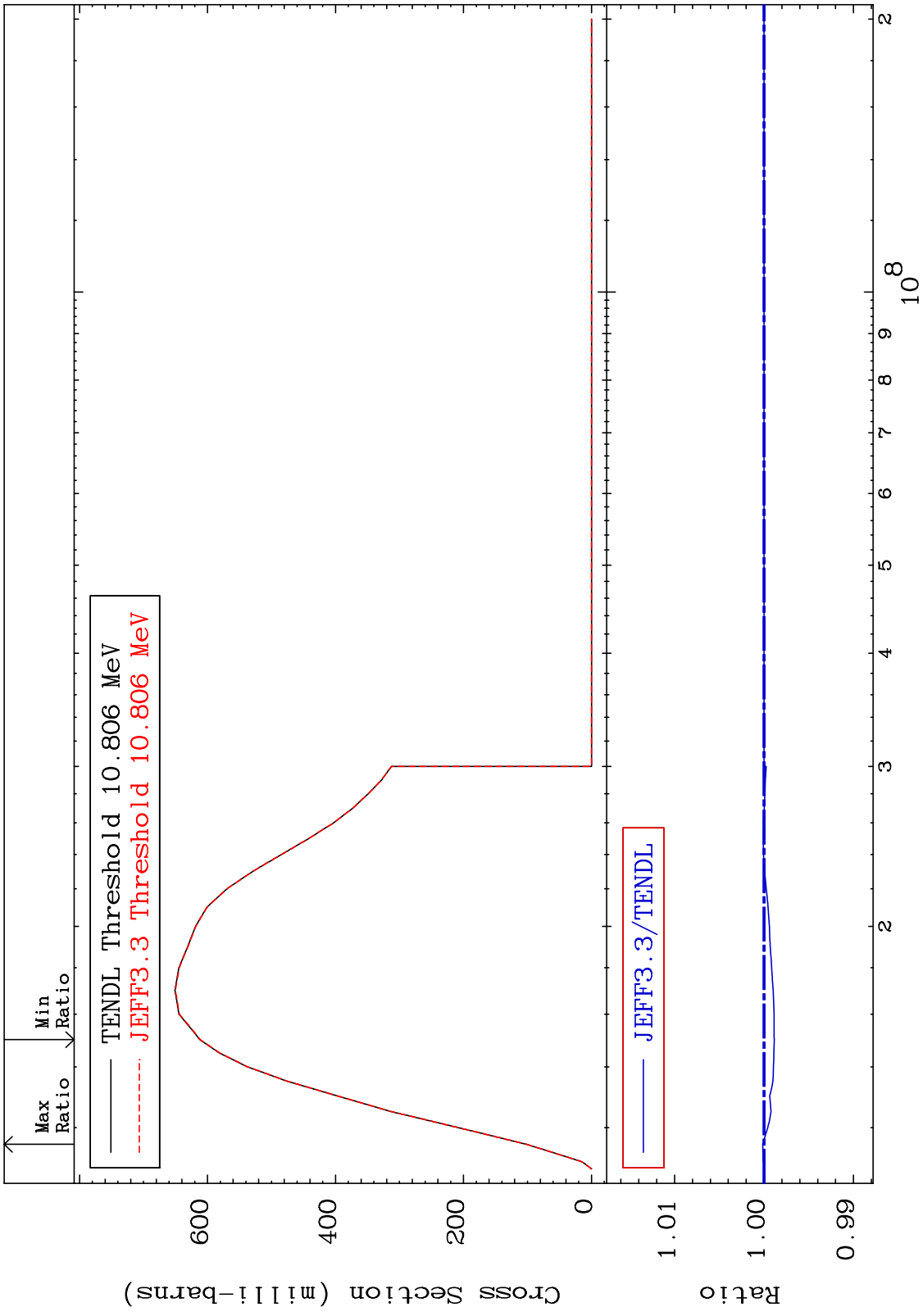
44-Ru-96

Incident Energy (eV)

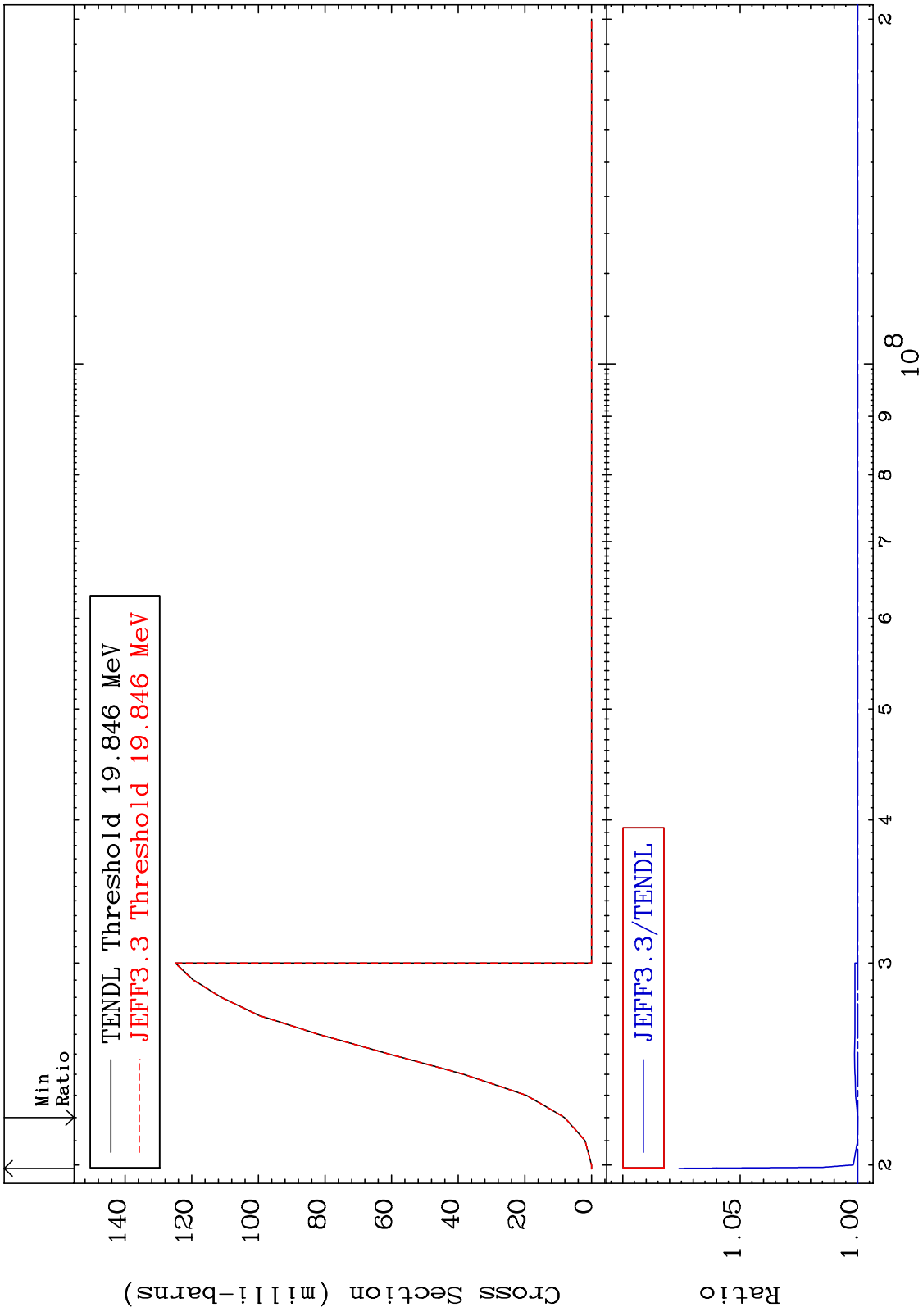
3

MAT 4425 (n,2n) d 44-Ru-96
Cross Section -0.130 To 4.727 %





MAT 4425 (n,3n) Cross Section 44-Ru-96 -0.011 To 7.601 %



6 44-Ru-96

MAT 4425

(n, n') α

44-Ru-96

-0.765 To 9999. %

Cross Section

Max Ratio

Min Ratio

TENDL Threshold 1.7146 MeV
JEFF3.3 Threshold 1.7141 MeV

Cross Section (milli-barns)

50
40
30
20
10
0

JEFF3.3/TENDL

Ratio

10^3
 10^2
 10^1
 10^0

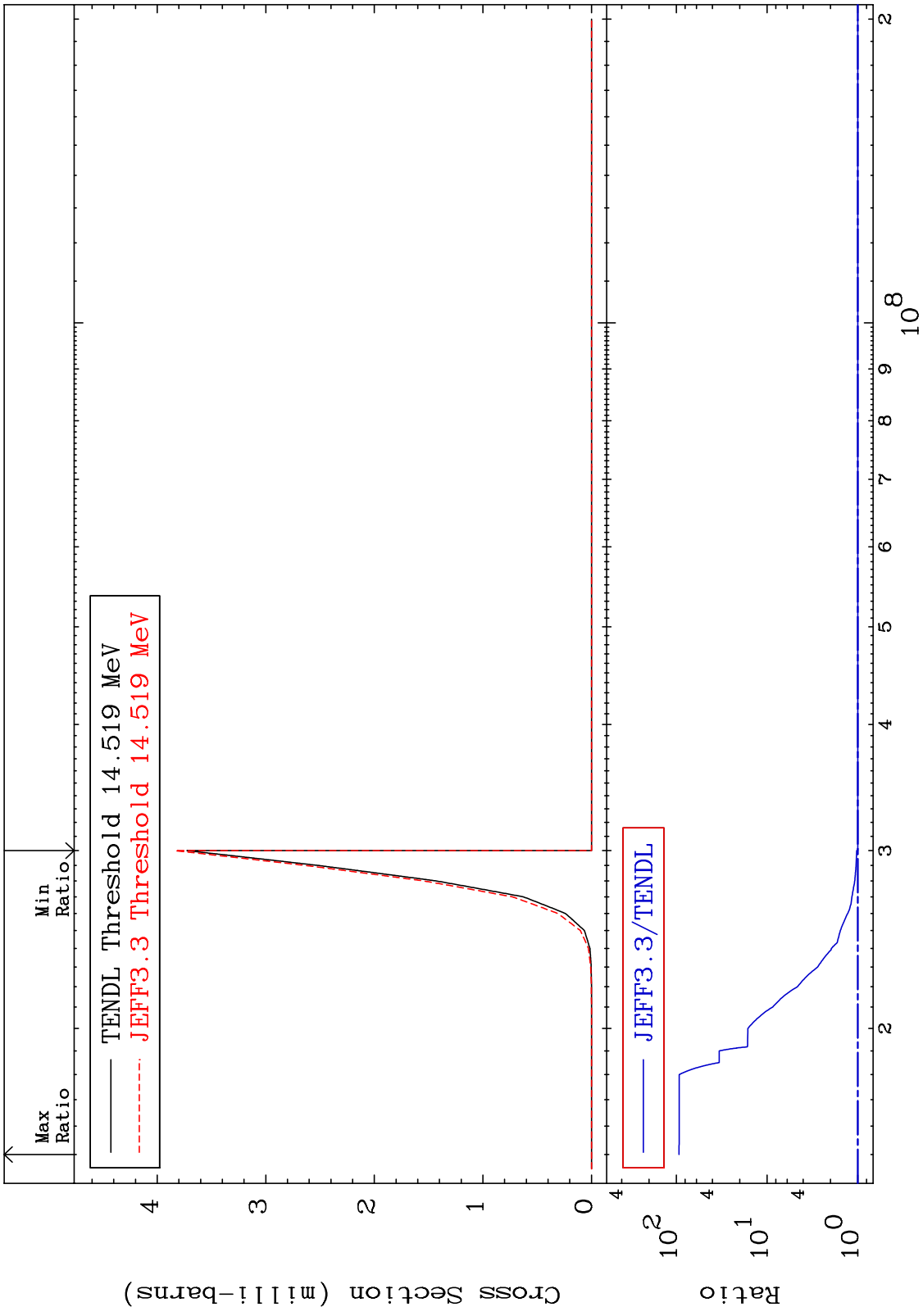
7

Incident Energy (eV)

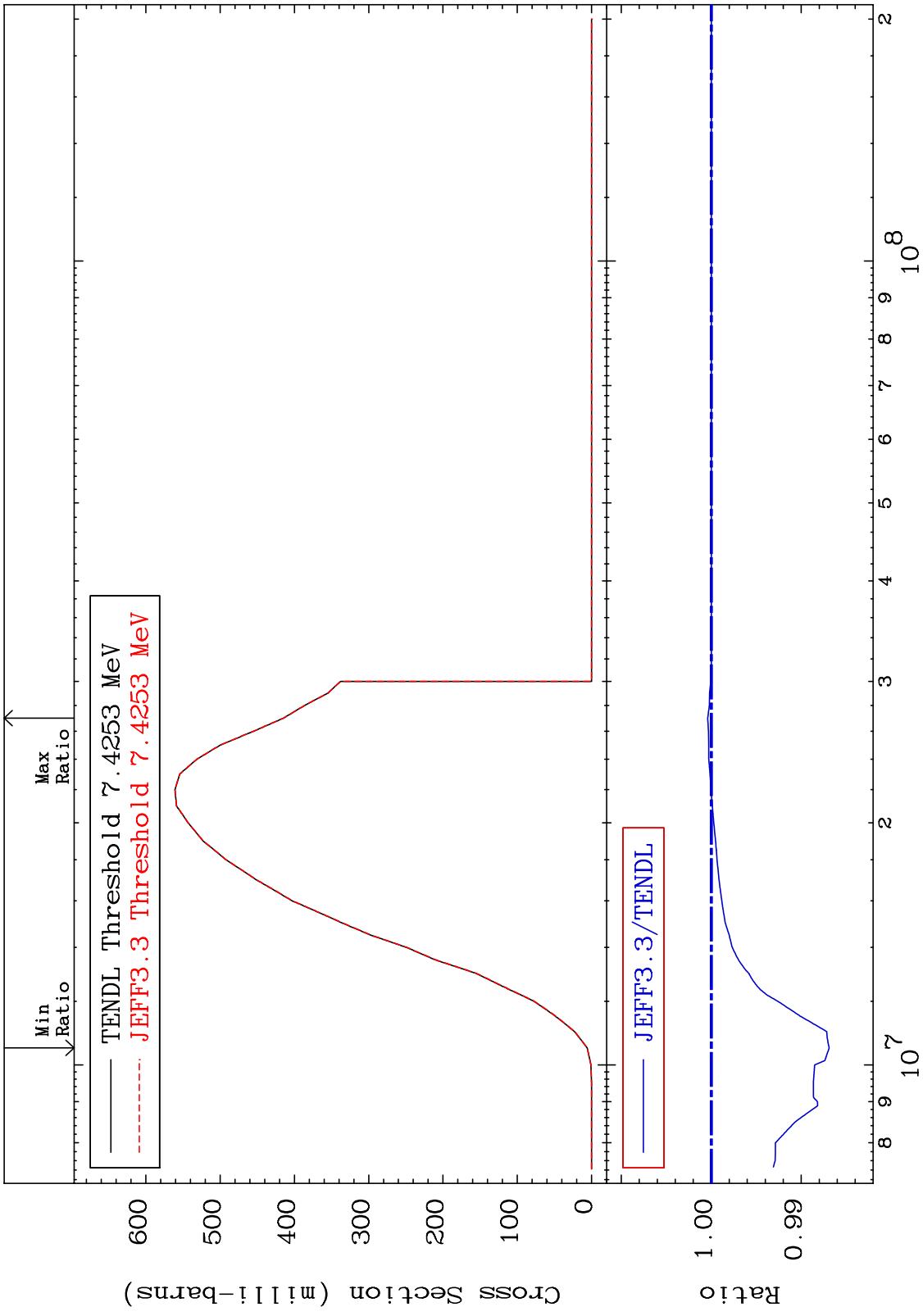
10^8

44-Ru-96

MAT 4425 $(n, 2n) \alpha$ 44-Ru-96
 Cross Section 0.000 To 9224. %

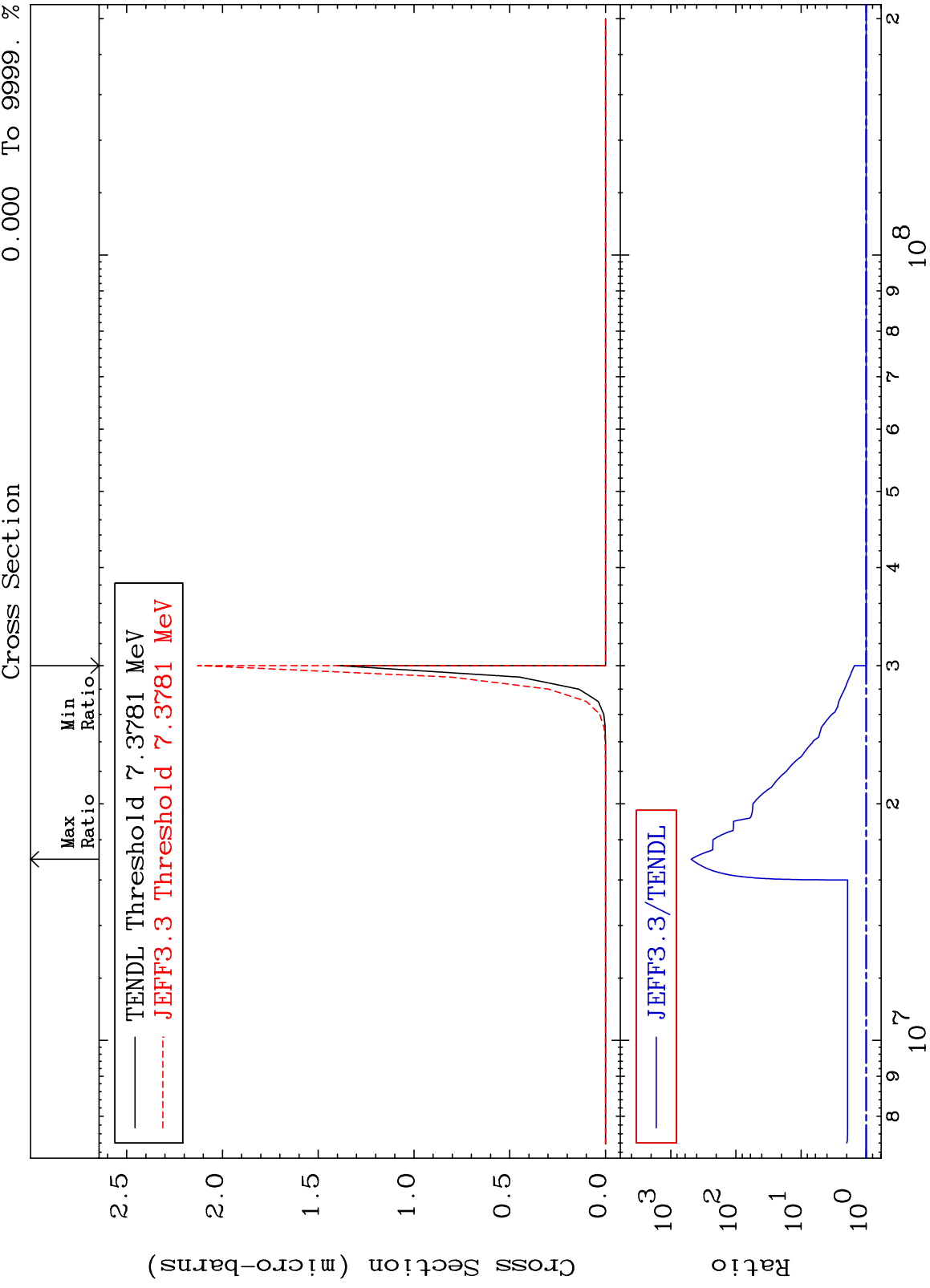


MAT 4425 (n, n') p 44-Ru-96
Cross Section -1.311 To 0.040 %

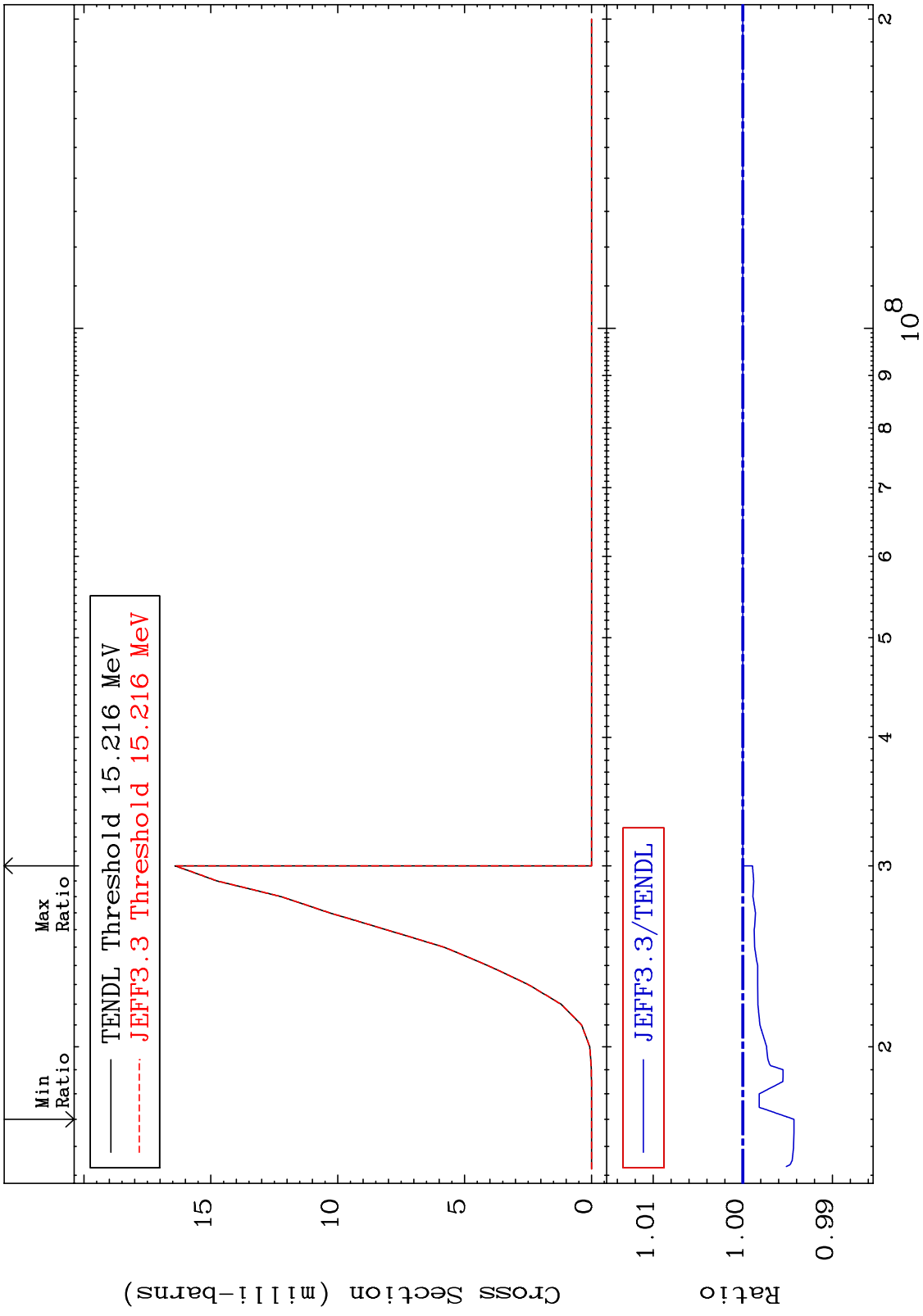


9 44-Ru-96

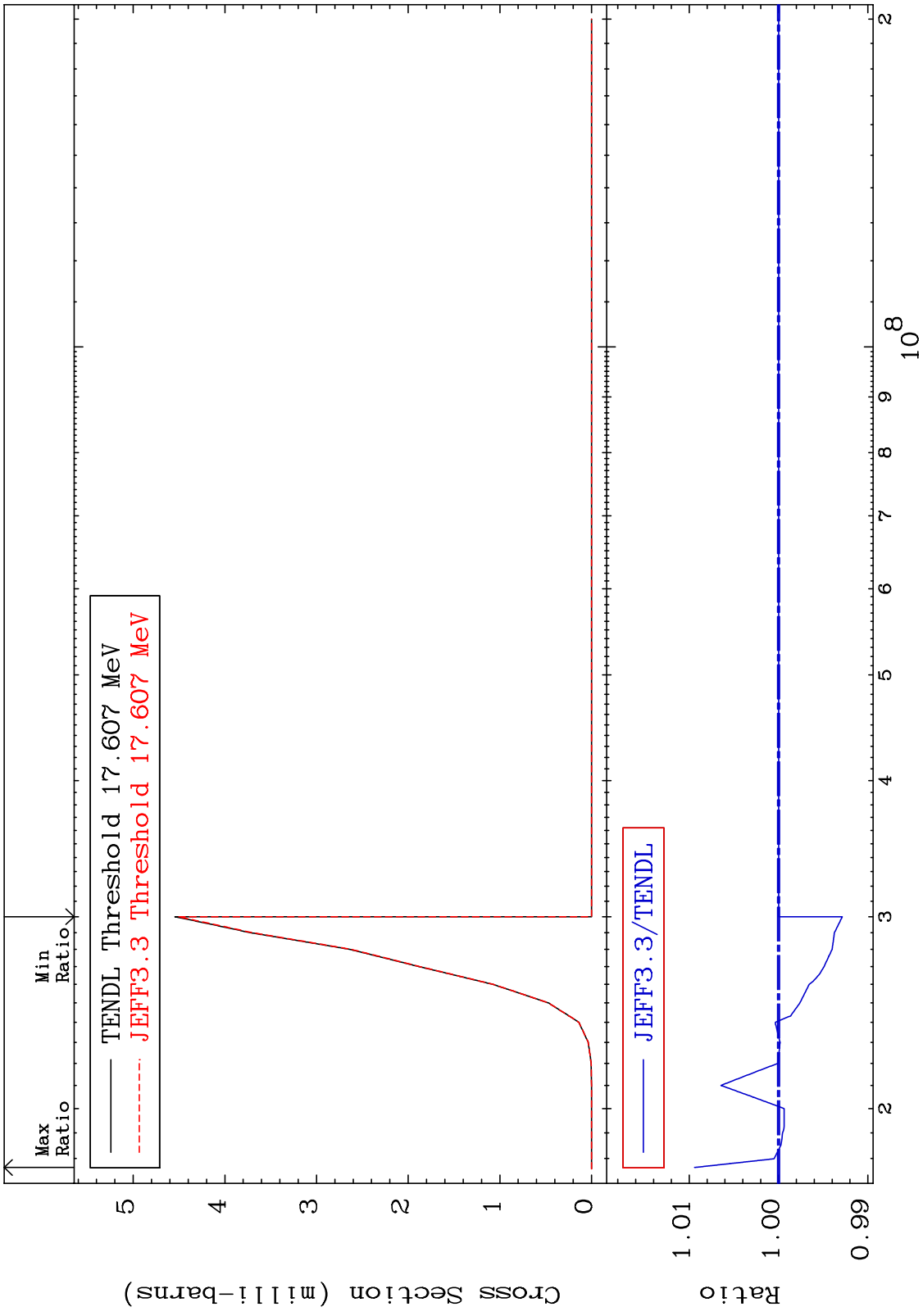
MAT 4425 (n,n') 2α 44-Ru-96 0.000 To 9999. %



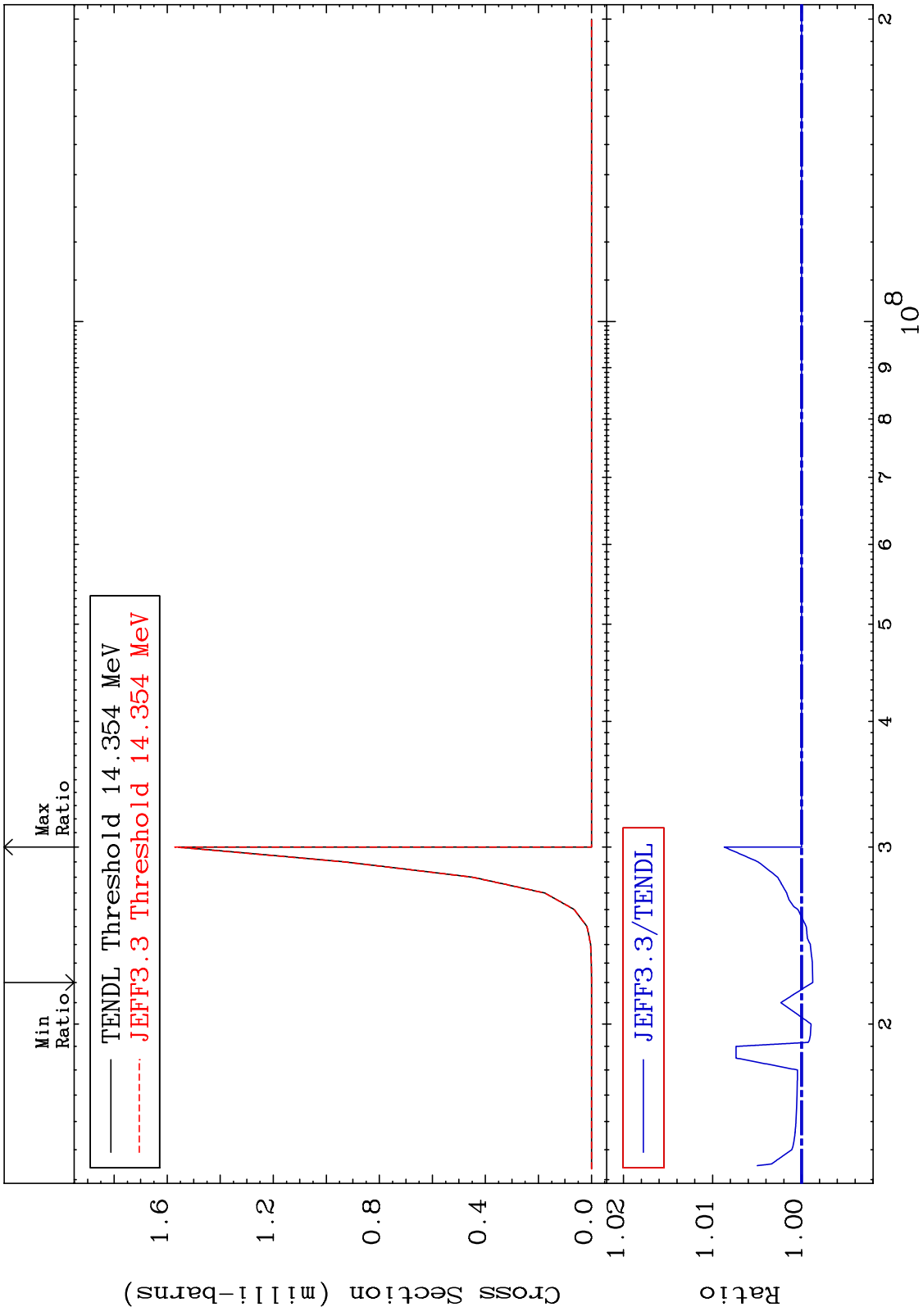
44-Ru-96

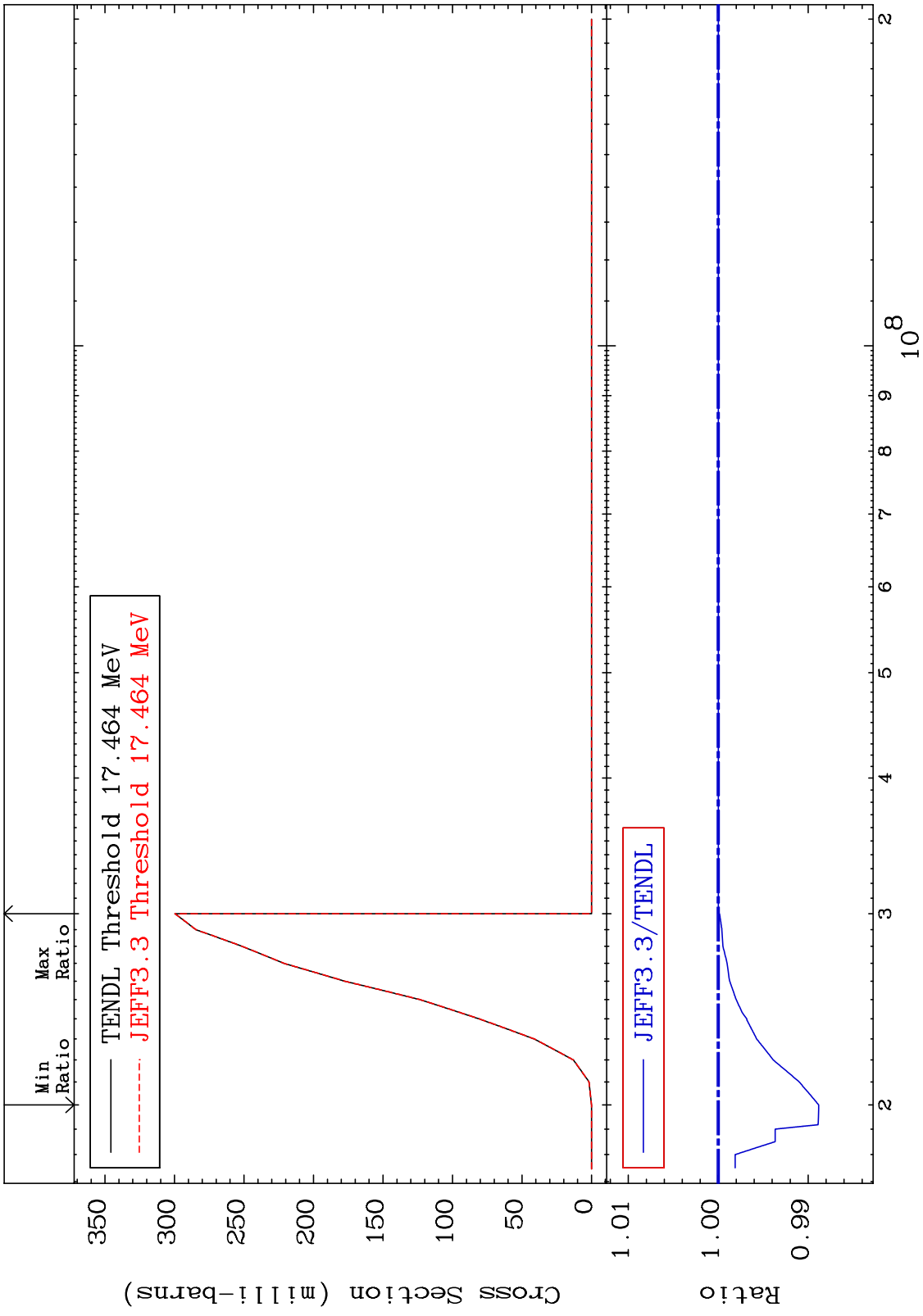


MAT 4425 (n,n') t 44-Ru-96
 Cross Section -0.714 To 0.941 %

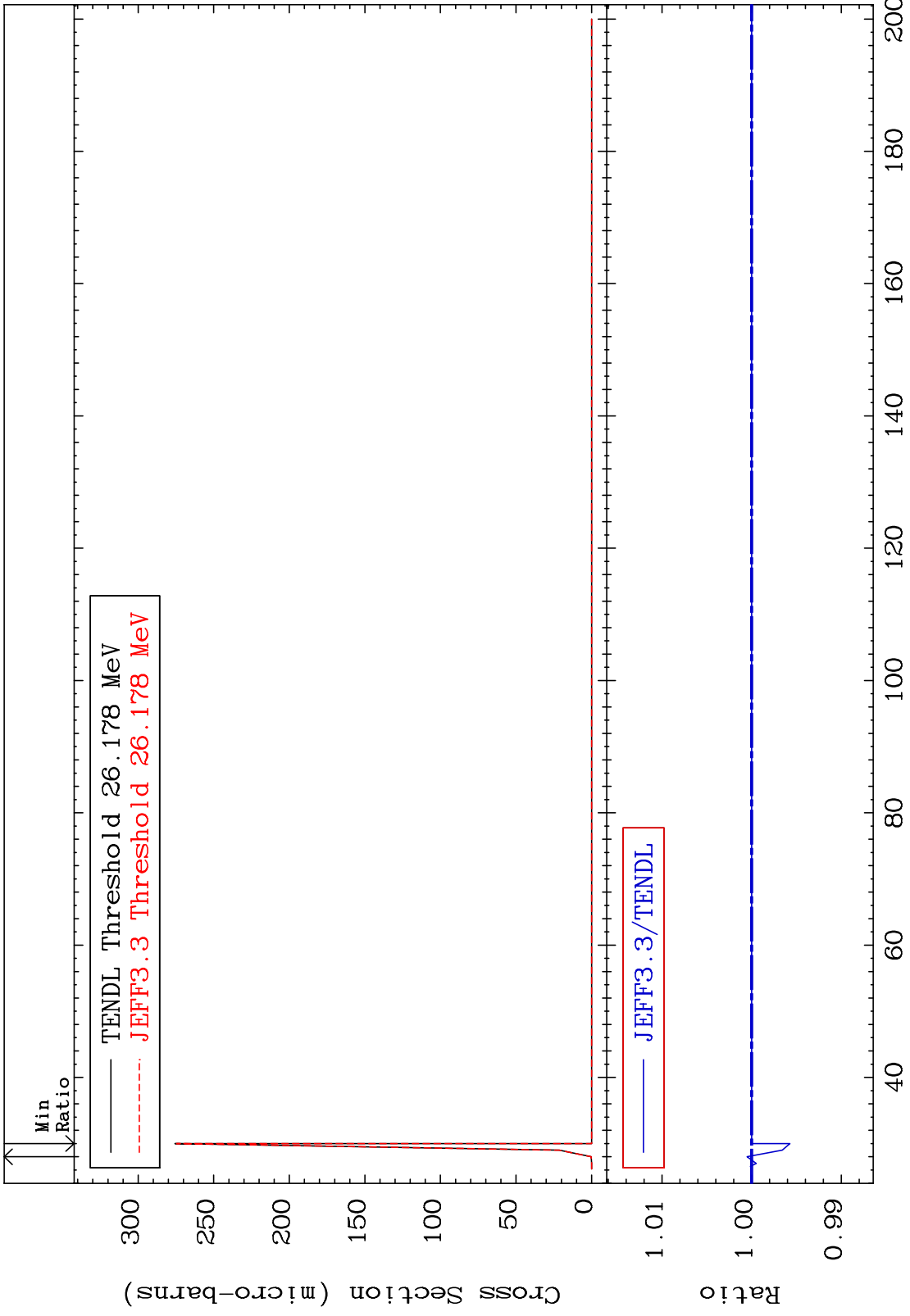


MAT 4425 (n, n') He-3 44-Ru-96
 Cross Section -0.124 To 0.870 %

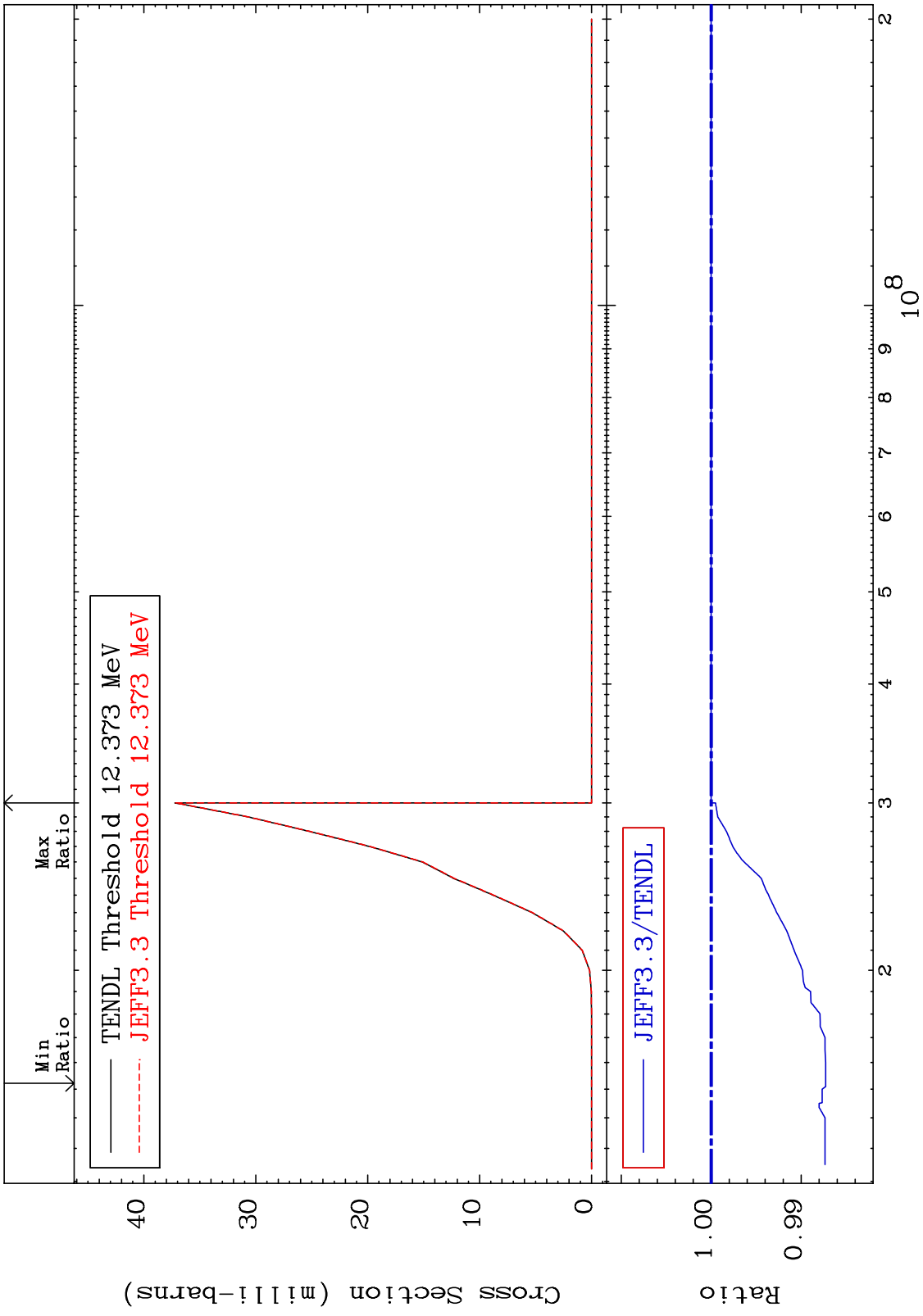




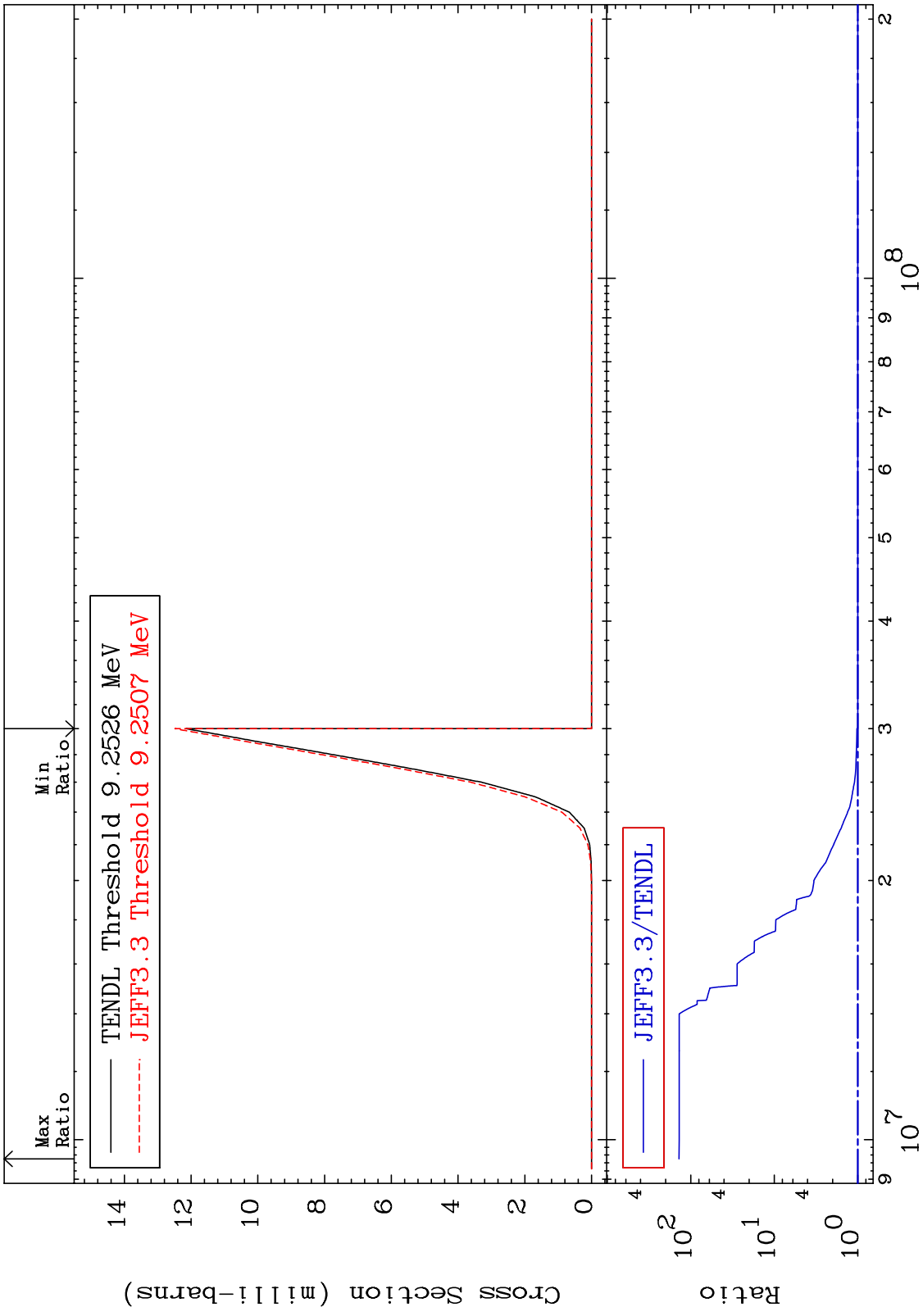
MAT 4425 (n,3n) p 44-Ru-96
Cross Section -0.427 To 0.050 %



MAT 4425 (n,2n) p 44-Ru-96
 Cross Section -1.272 To 0.000 %

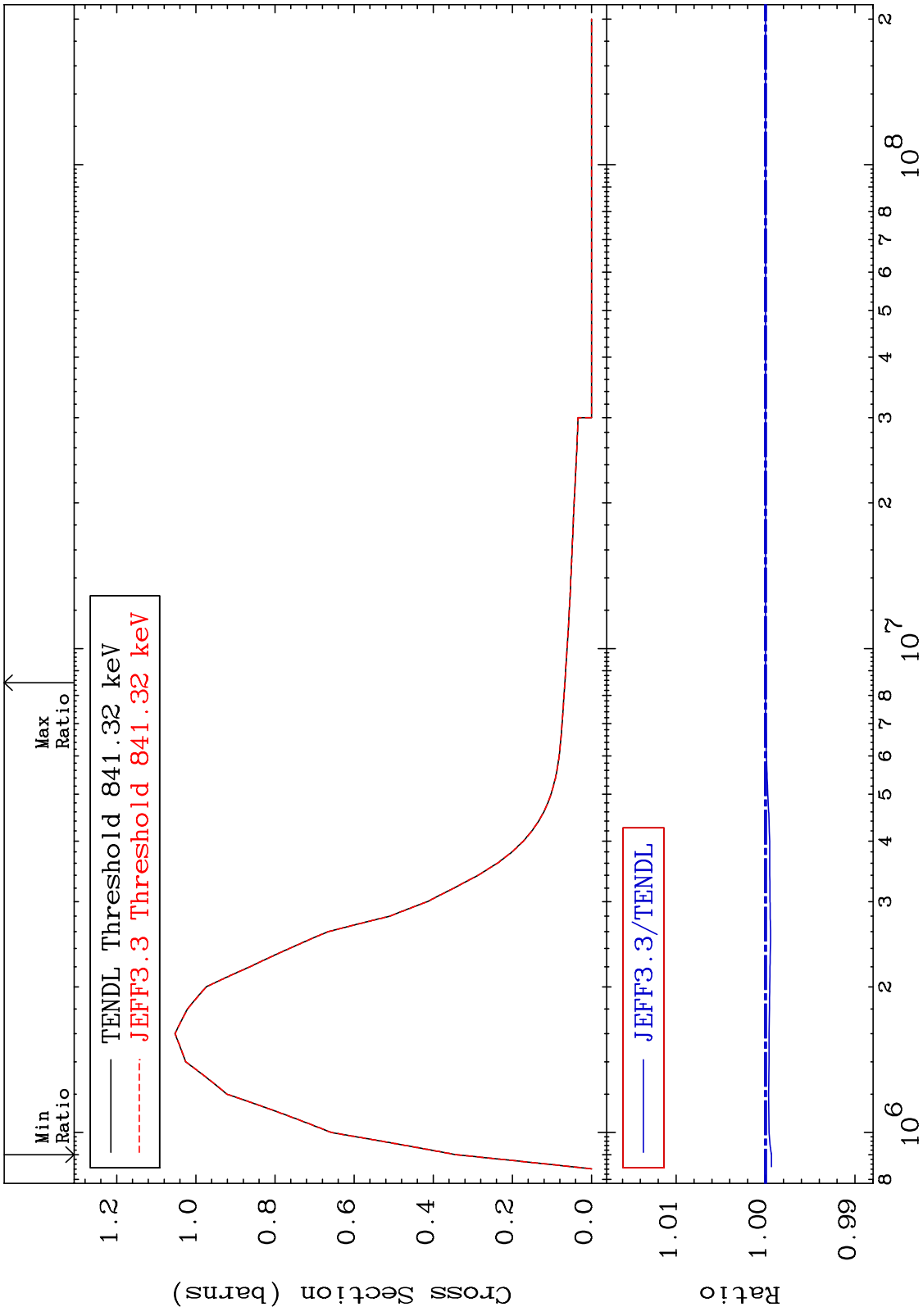


MAT 4425 (n,n') p α 44-Ru-96
 Cross Section 0.000 To 9999. %



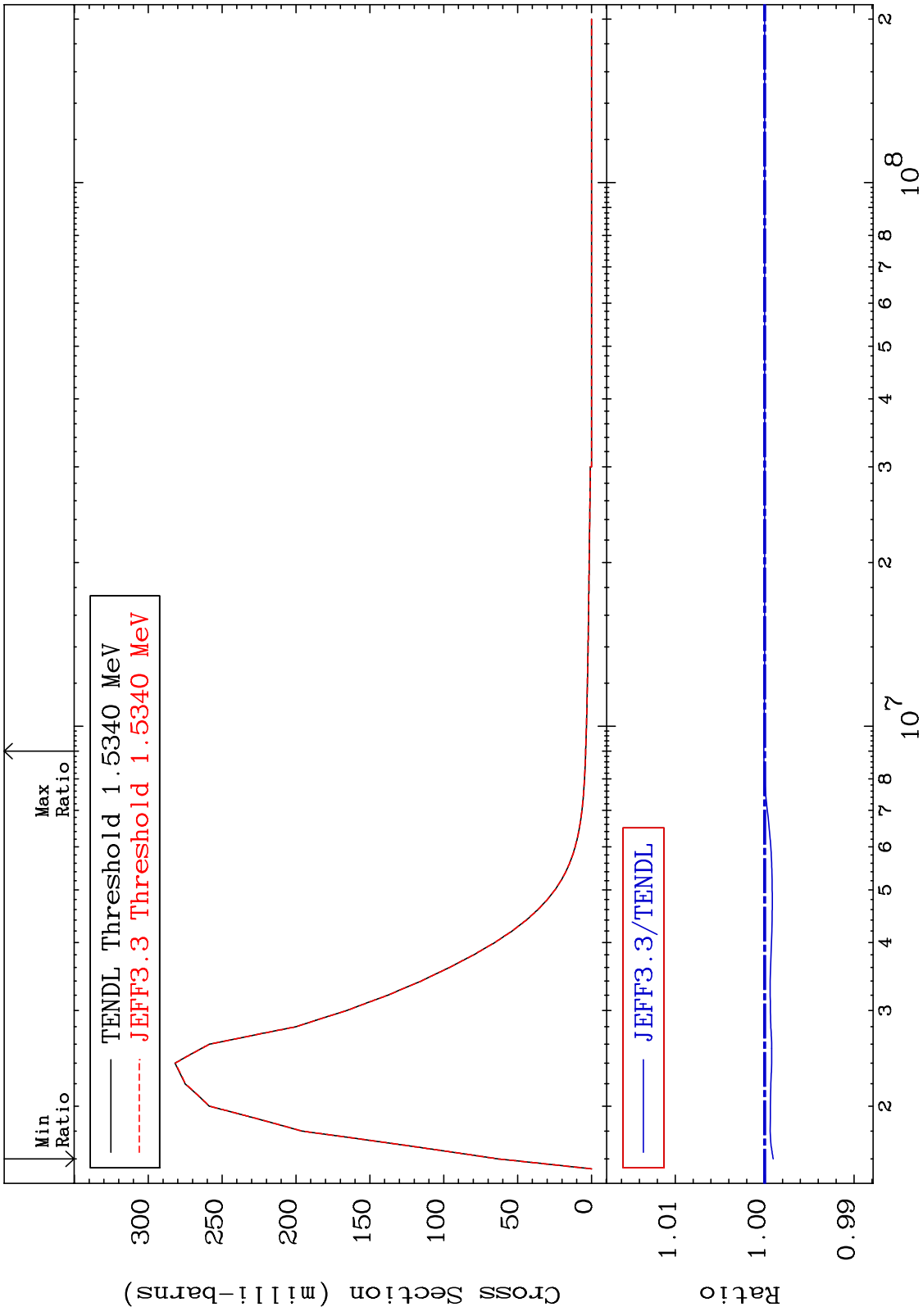
Incident Energy (eV) 44-Ru-96

MAT 4425
44-Ru-96
MT= 51 (n,n') Level
Cross Section
-0.065 To 0.000 %



18
44-Ru-96

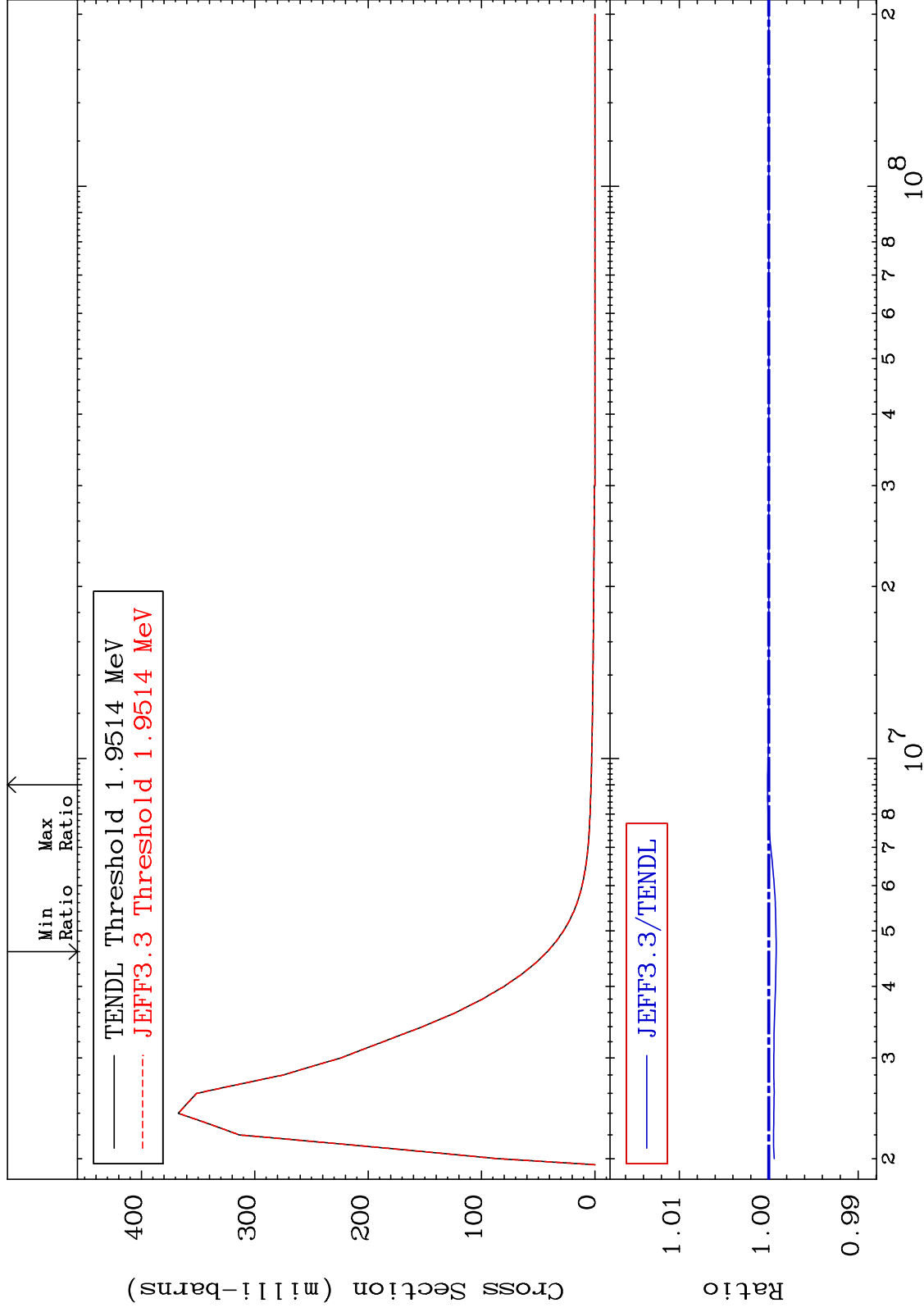
MAT 4425 MT= 52 (n,n') Level Cross Section 44-Ru-96
 -0.095 To 0.010 %



MAT 4425

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

44-Ru-96
-0.082 To 0.013 %

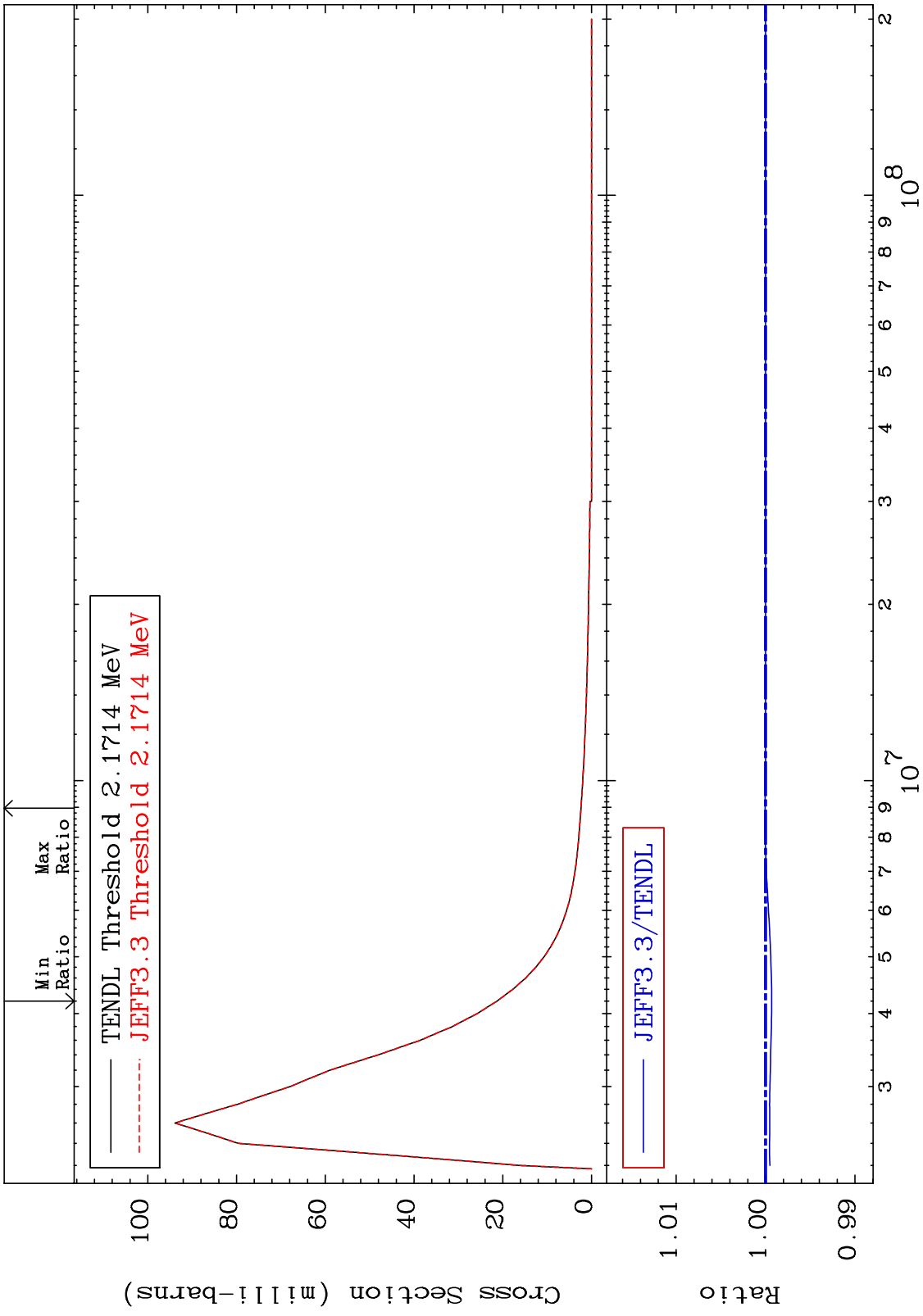


20

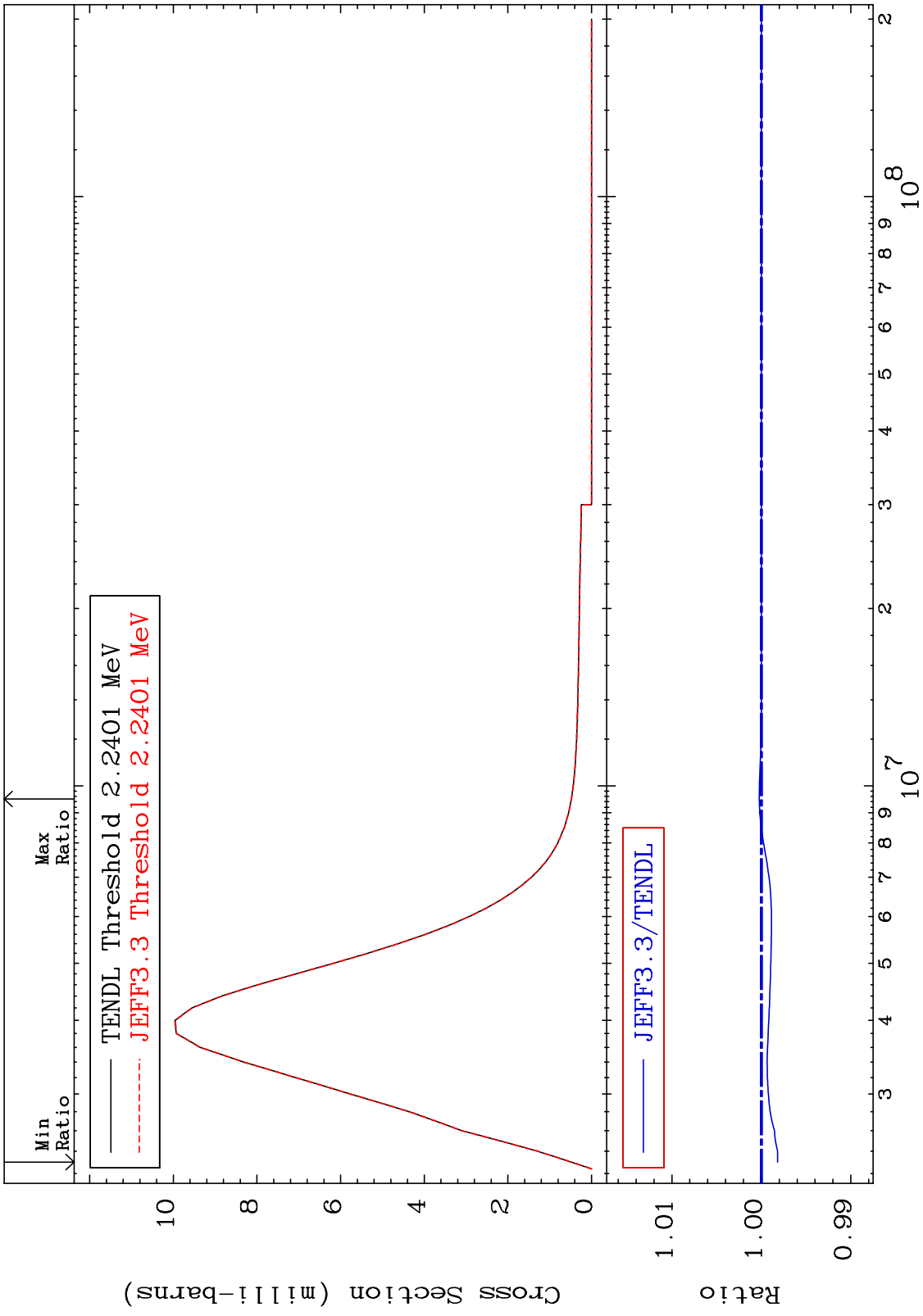
Incident Energy (eV)

44-Ru-96

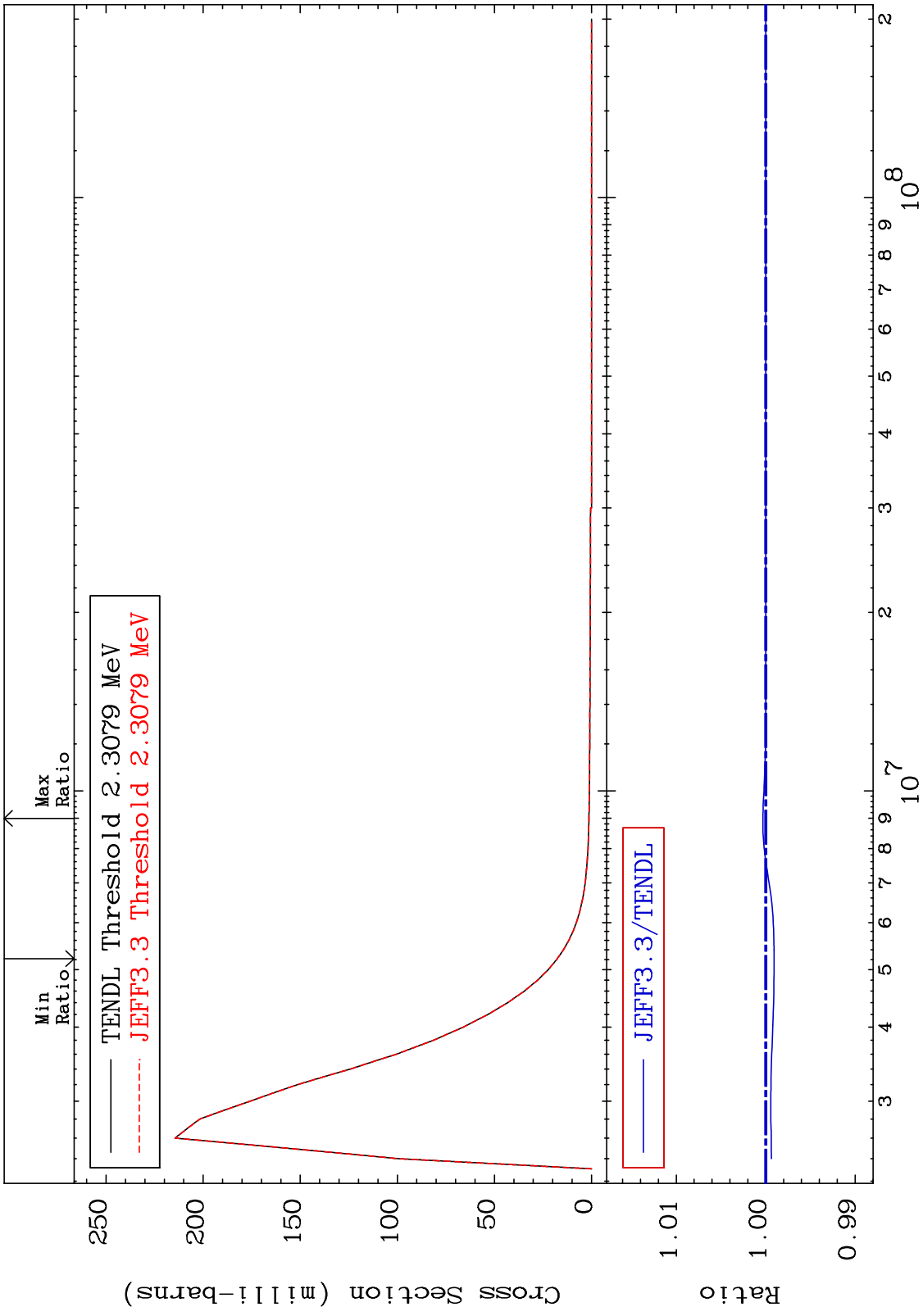
MAT 4425 MT= 54 (n,n') Level Cross Section 44-Ru-96
 -0.069 To 0.006 %



MAT 4425 MT= 55 (n,n') Level Cross Section -0.182 To 0.024 % 44-Ru-96



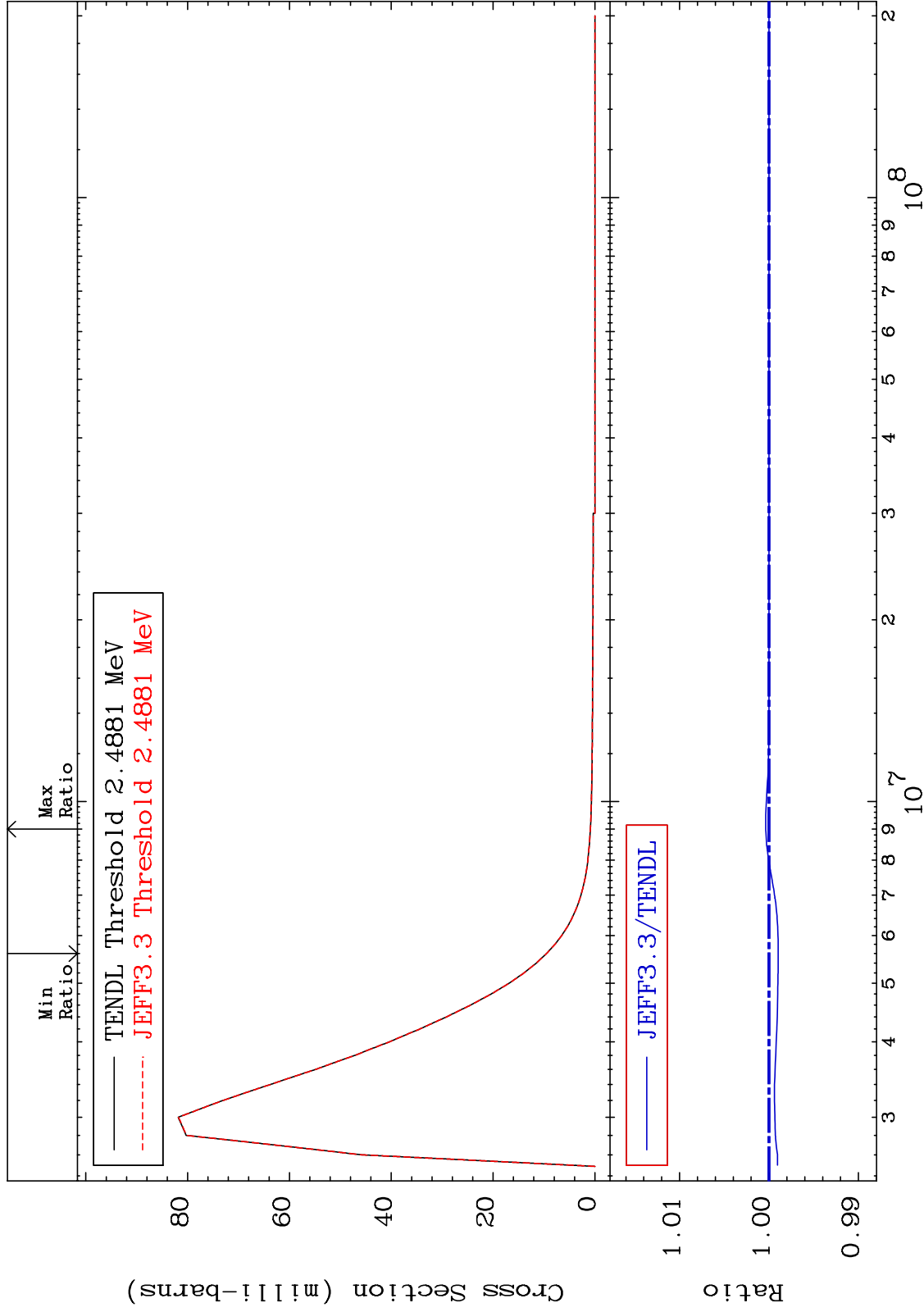
MAT 4425 MT= 56 (n,n') Level Cross Section 44-Ru-96
 -0.093 To 0.032 %



MAT 4425

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

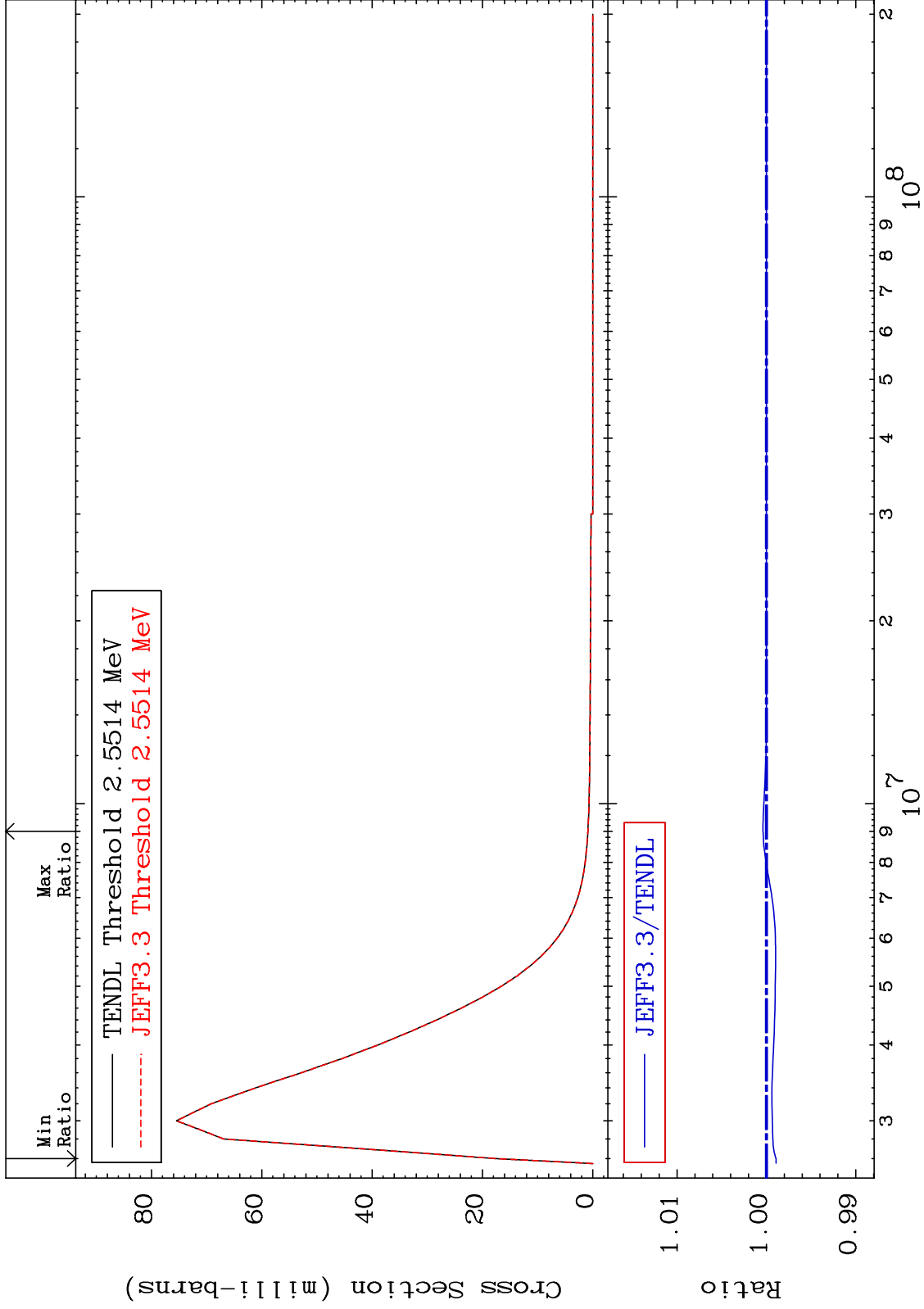
44-Ru-96
-0.102 To 0.038 %



MAT 4425

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

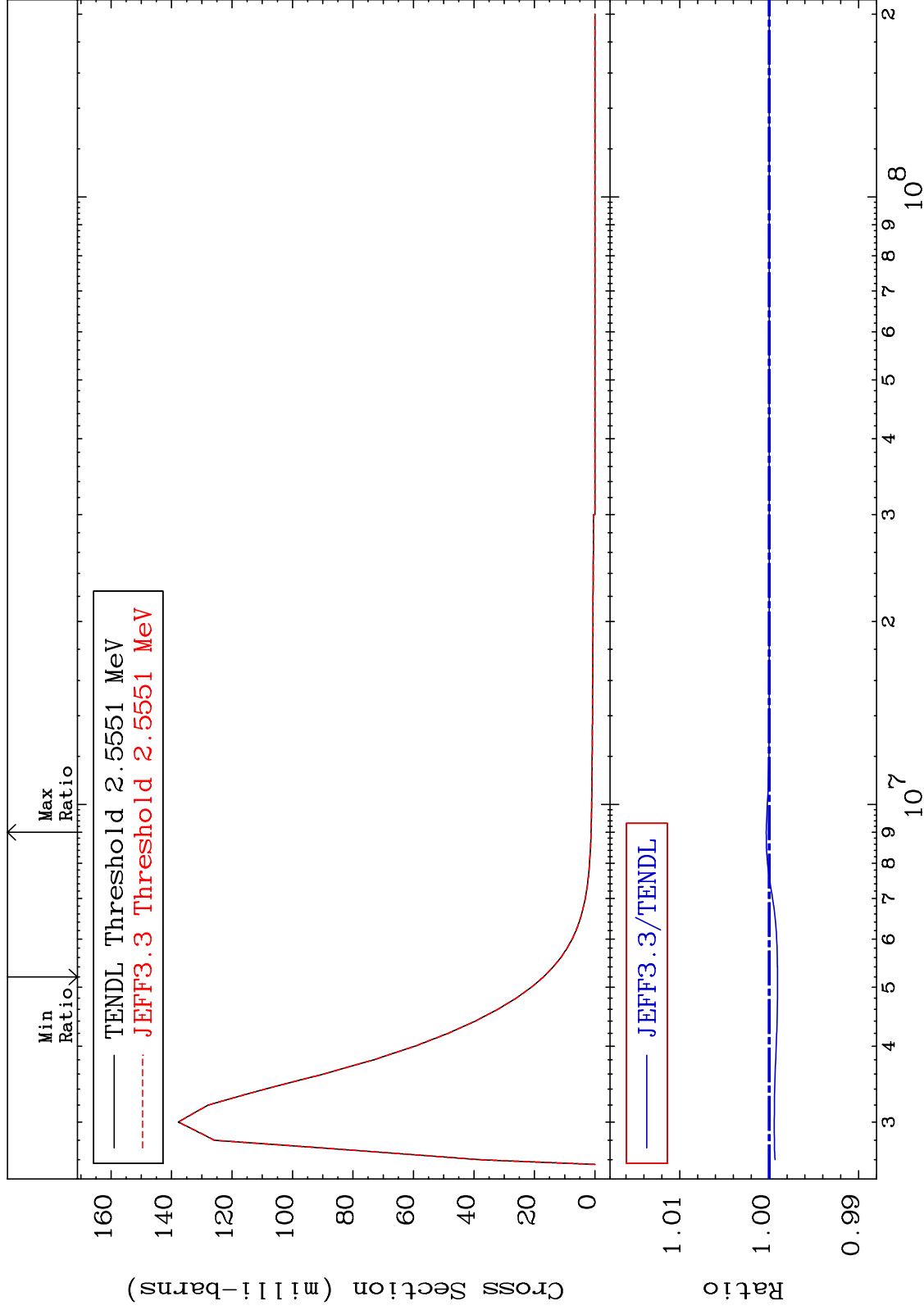
44-Ru-96
-0.109 To 0.038 %



MAT 4425

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

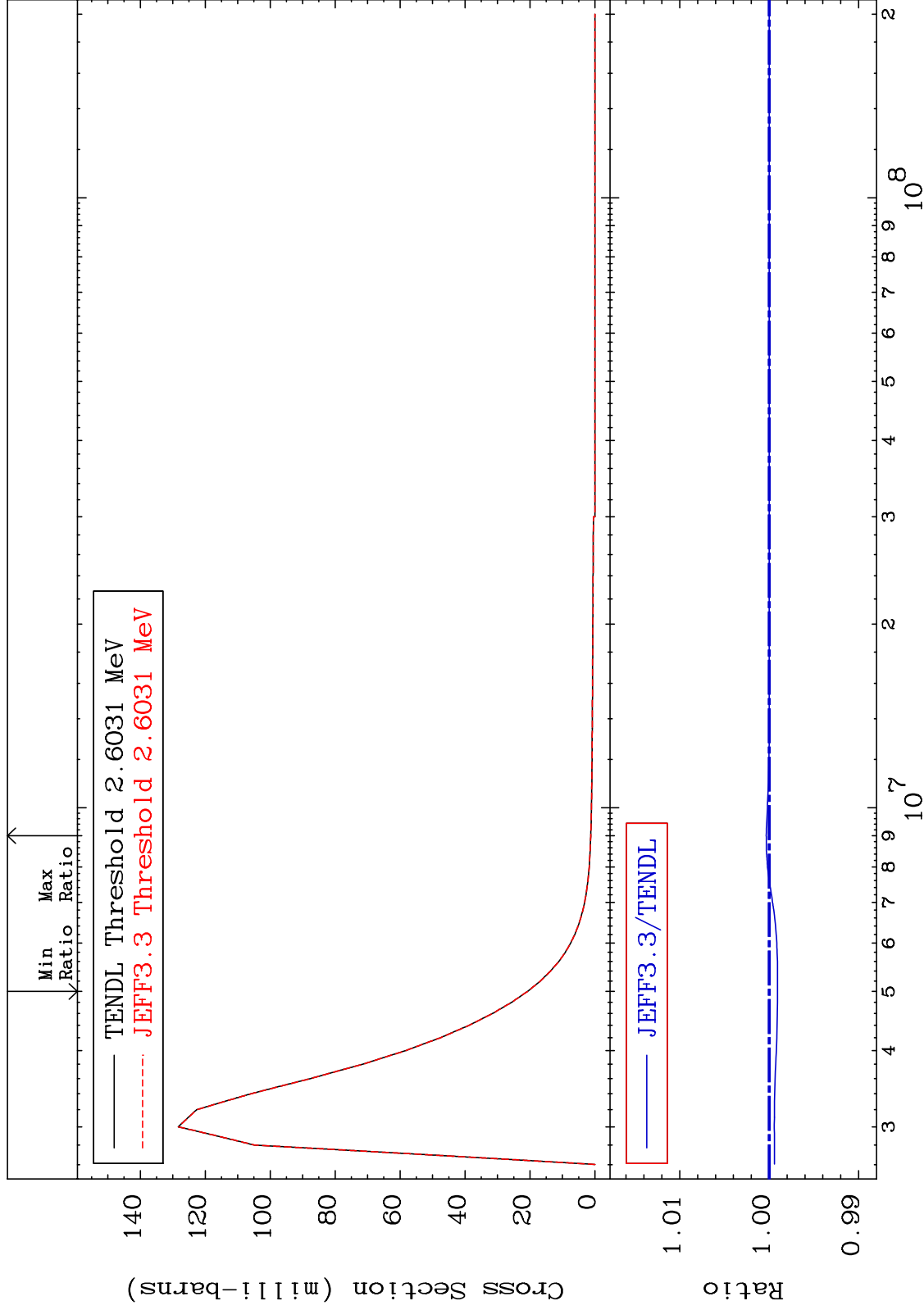
44-Ru-96
-0.094 To 0.033 %



MAT 4425

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

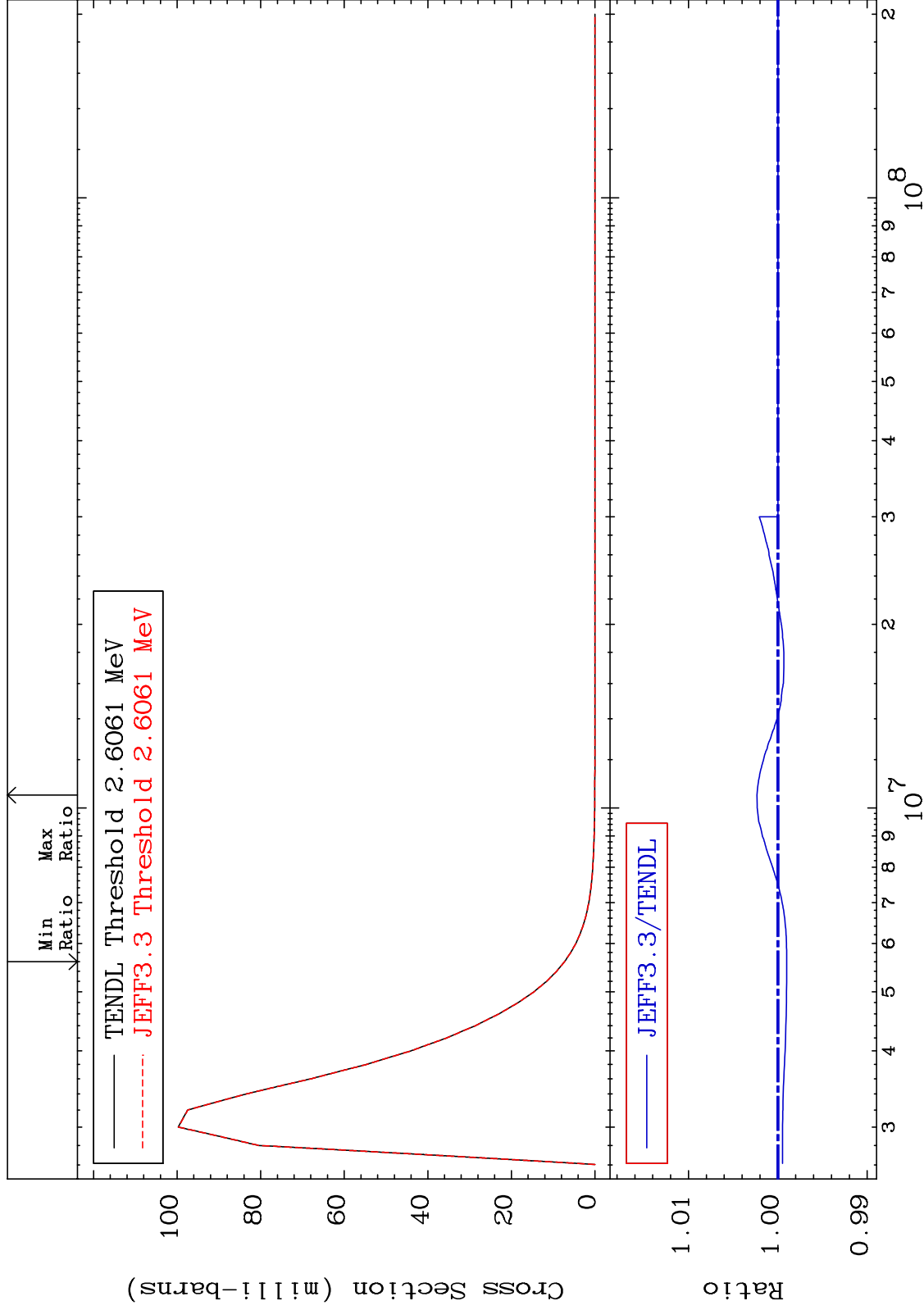
44-Ru-96
-0.093 To 0.033 %



MAT 4425

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

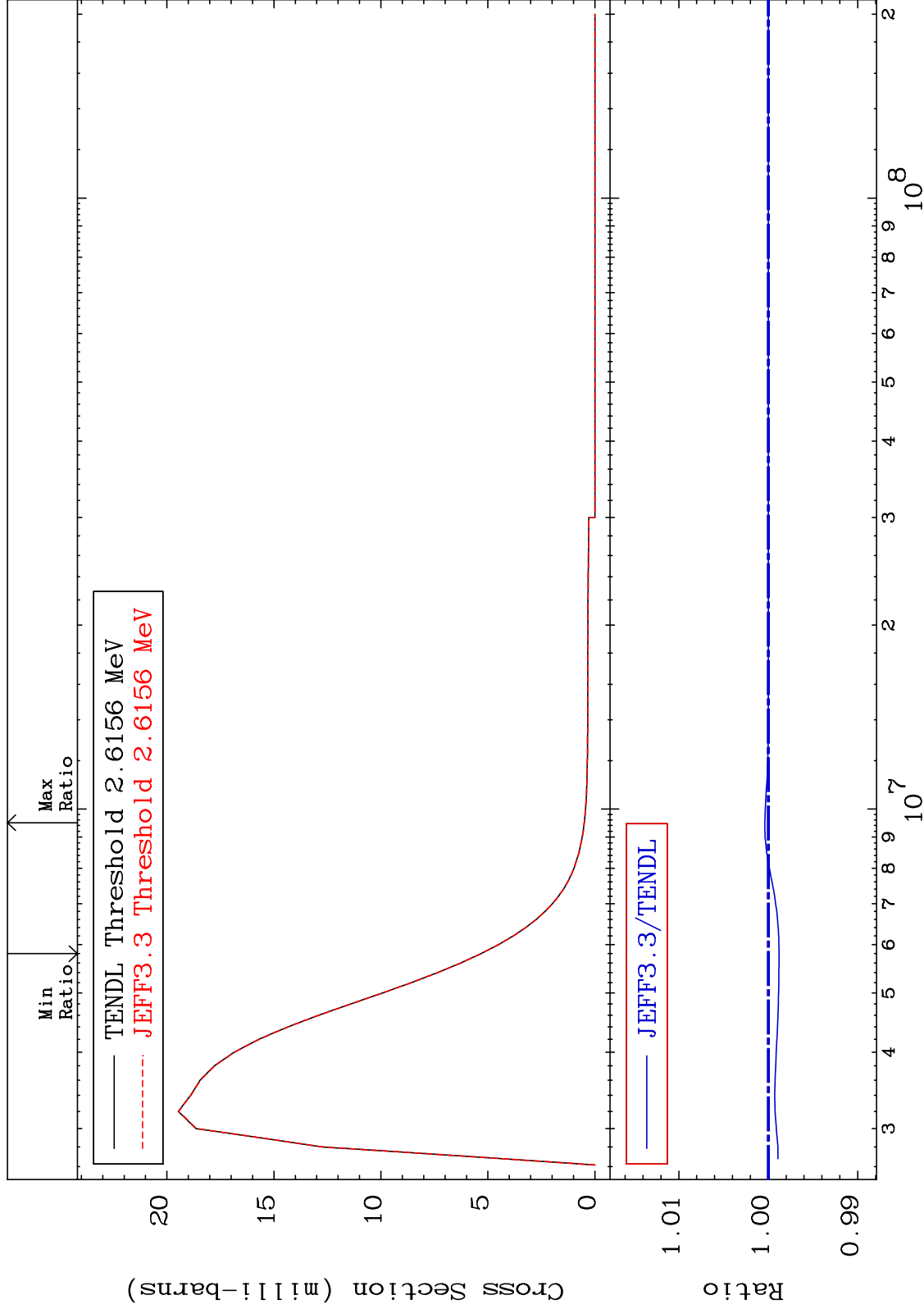
44-Ru-96
-0.099 To 0.233 %



MAT 4425

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

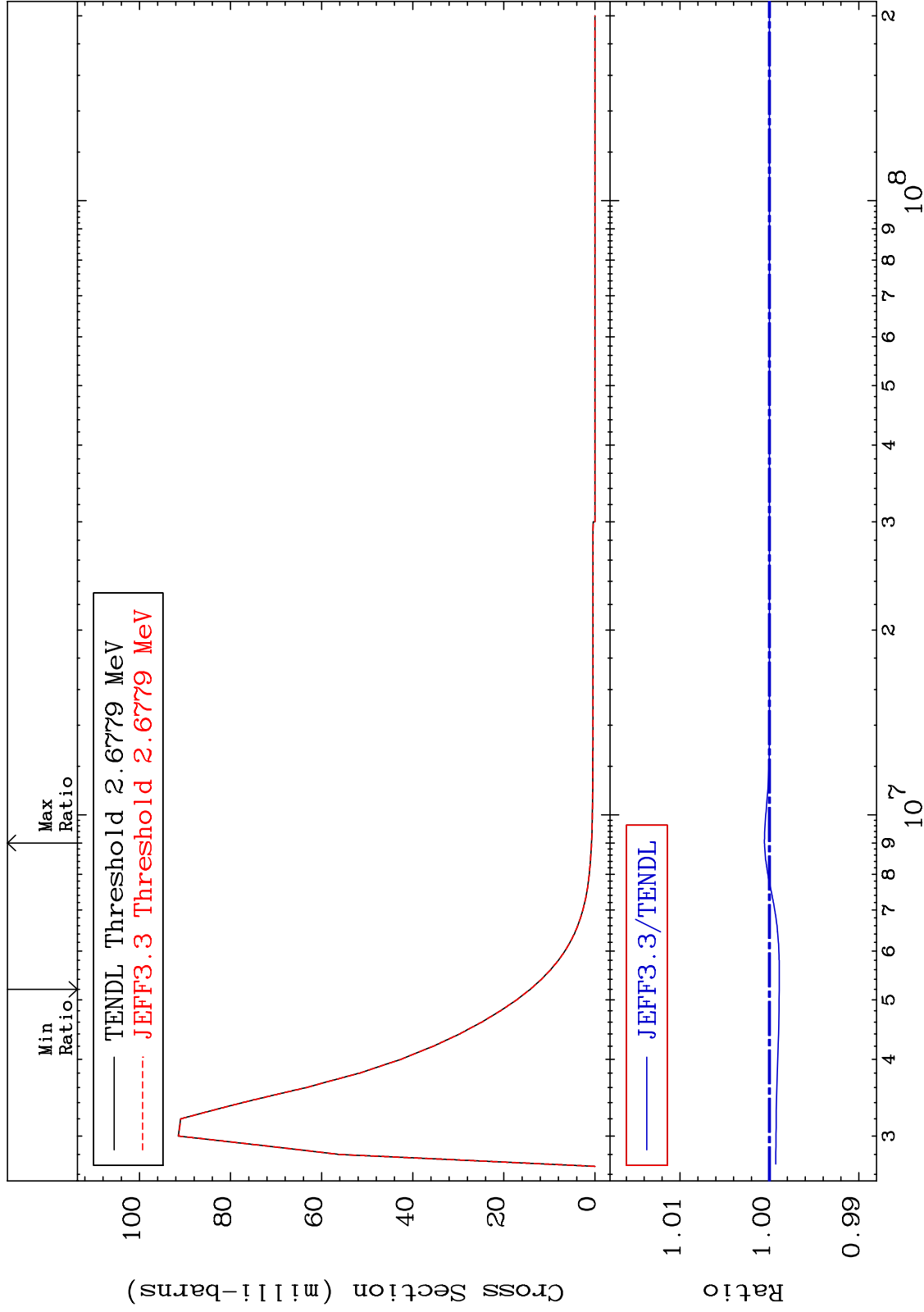
44-Ru-96
-0.120 To 0.040 %



MAT 4425

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

44-Ru-96
-0.111 To 0.056 %

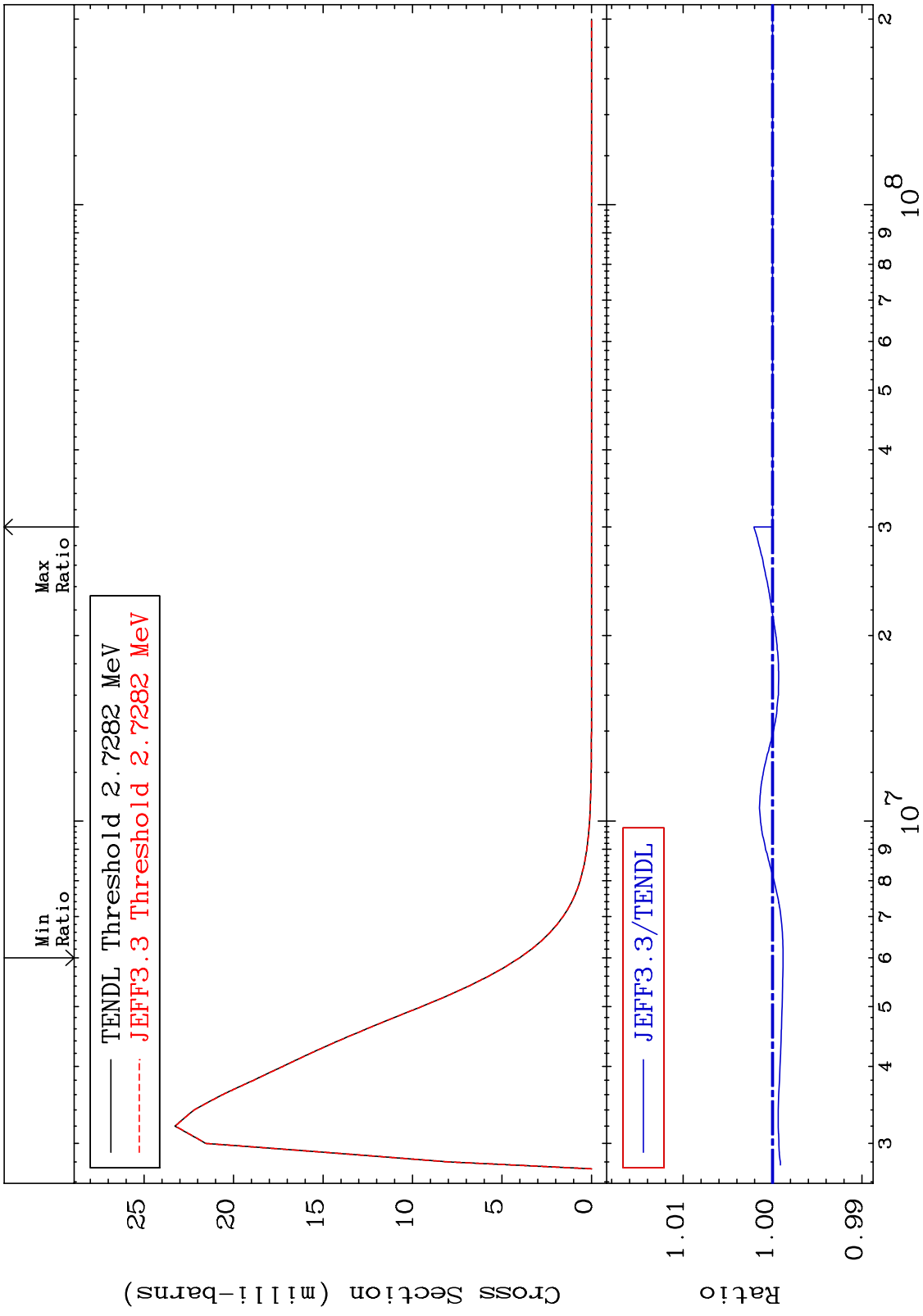


30

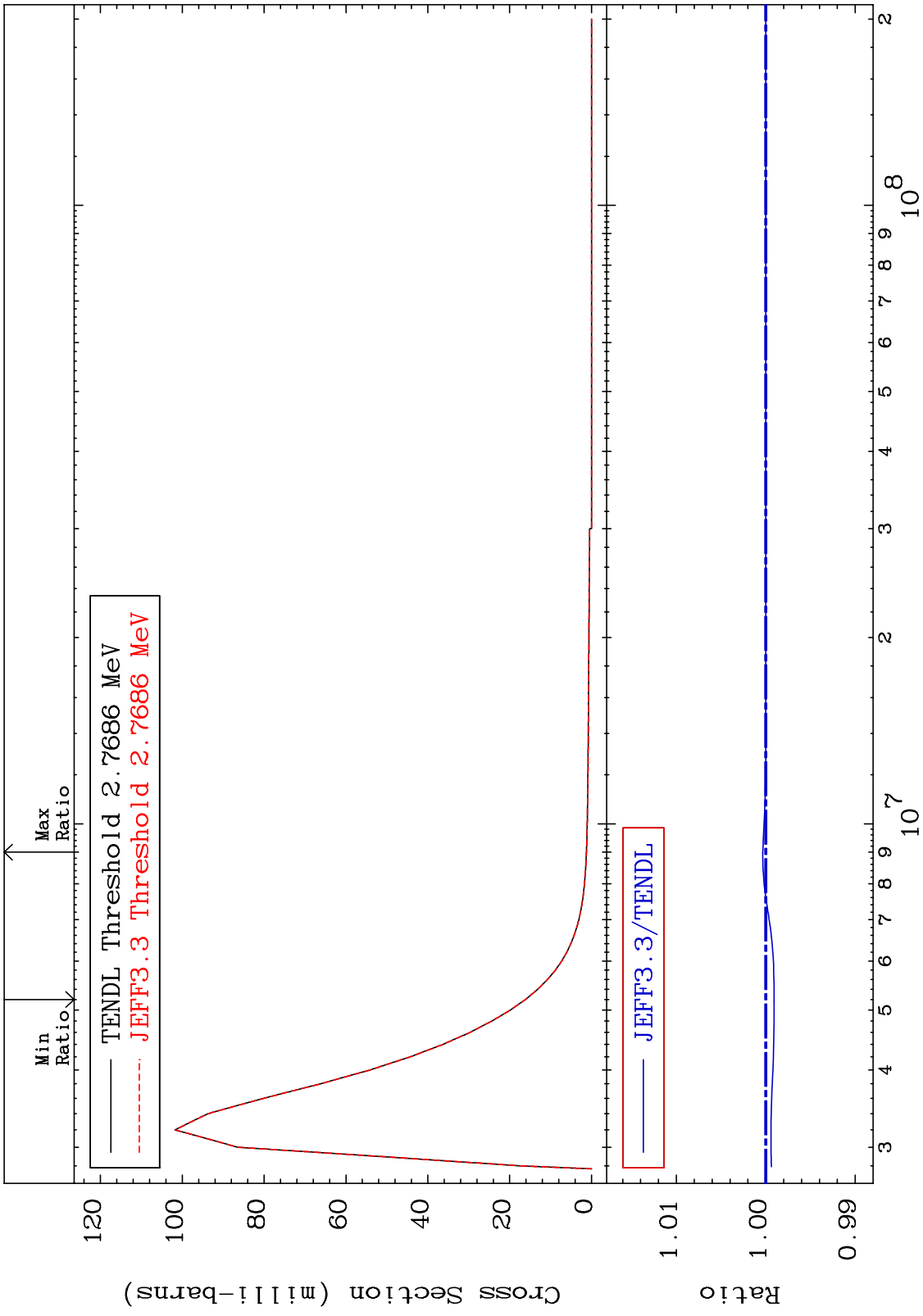
Incident Energy (eV)

44-Ru-96

MAT 4425 MT= 64 (n, n') Level Cross Section -0.117 To 0.209 % 44-Ru-96



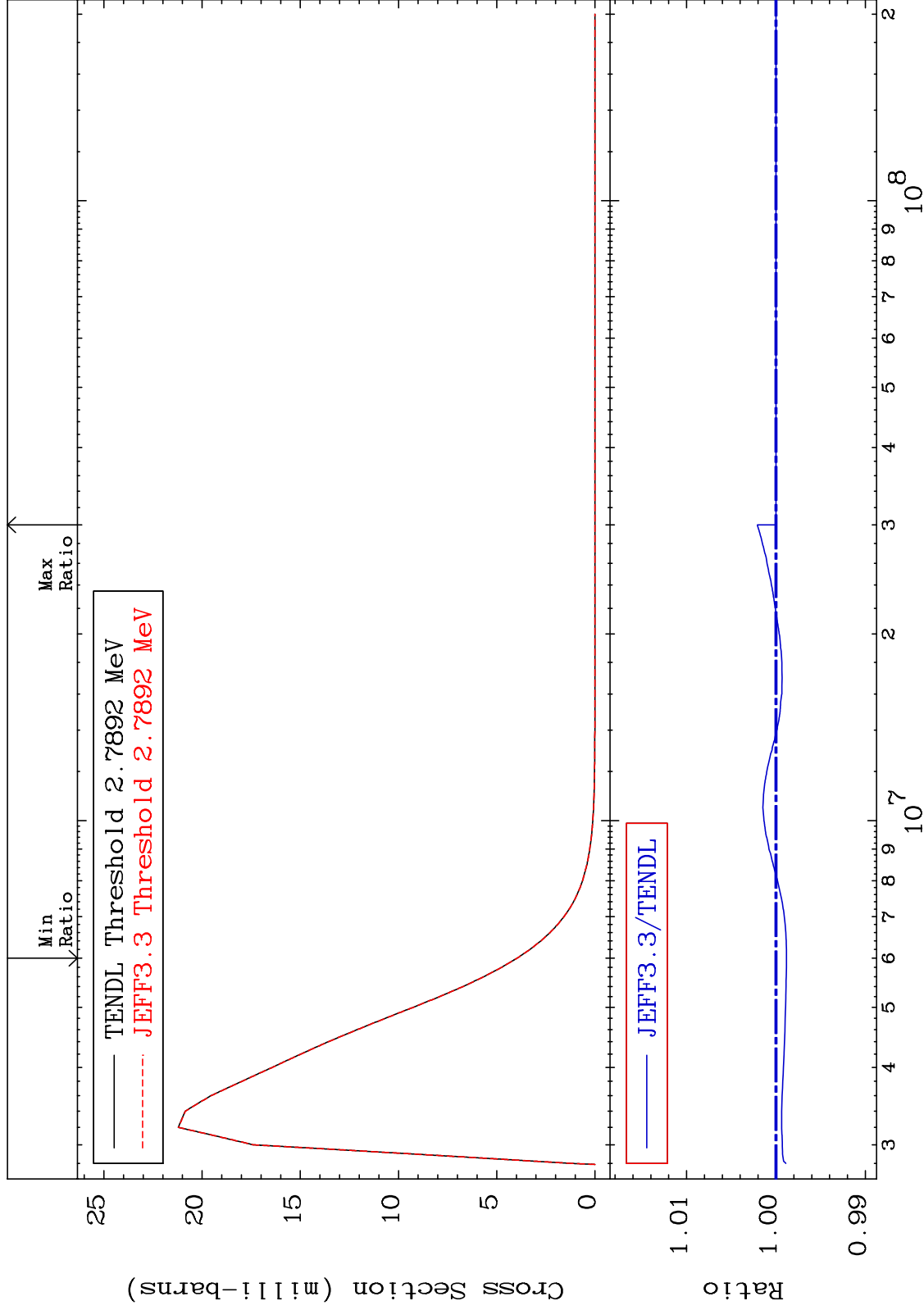
MAT 4425 MT= 65 (n,n') Level Cross Section 44-Ru-96
 -0.093 To 0.034 %



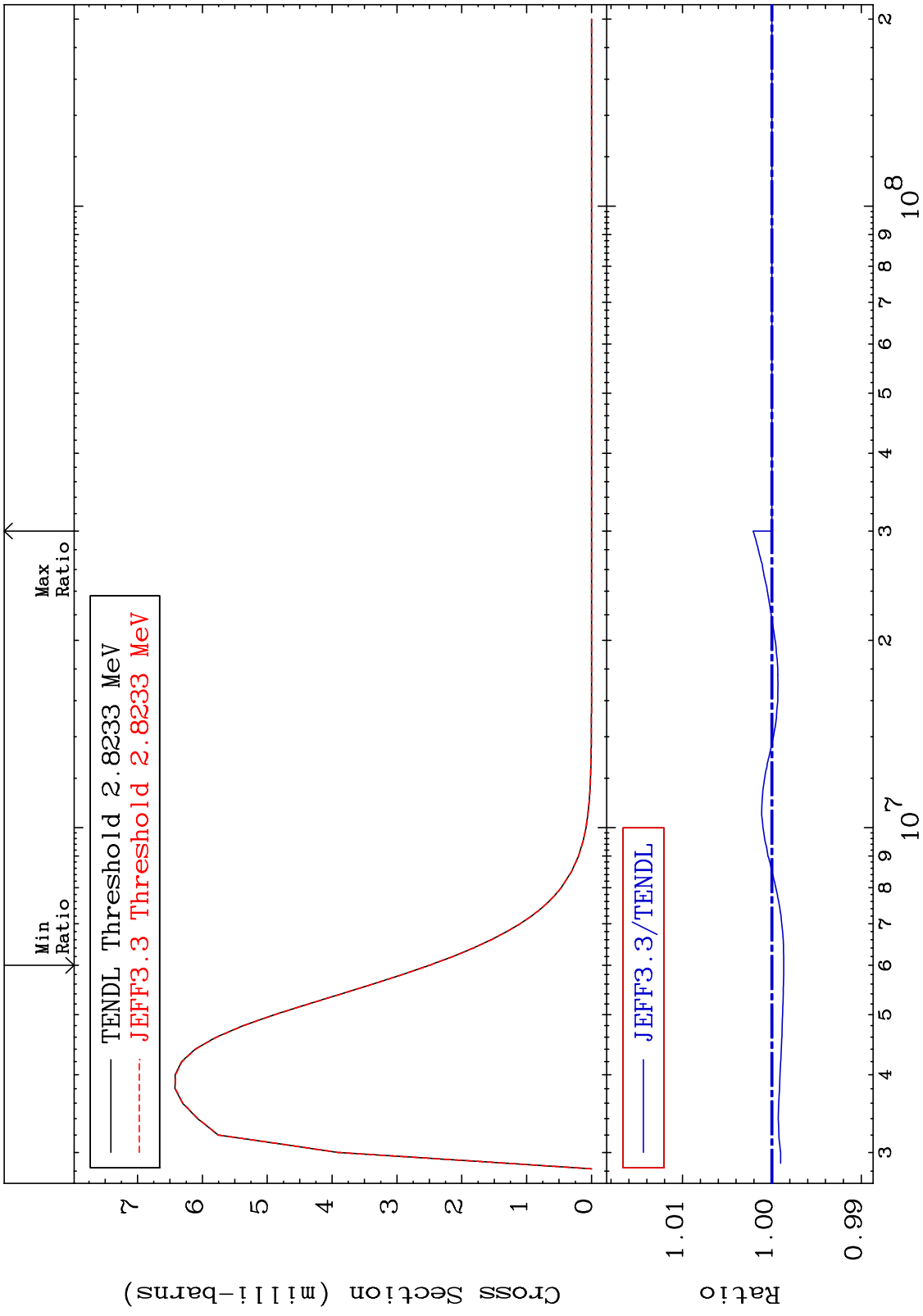
MAT 4425

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

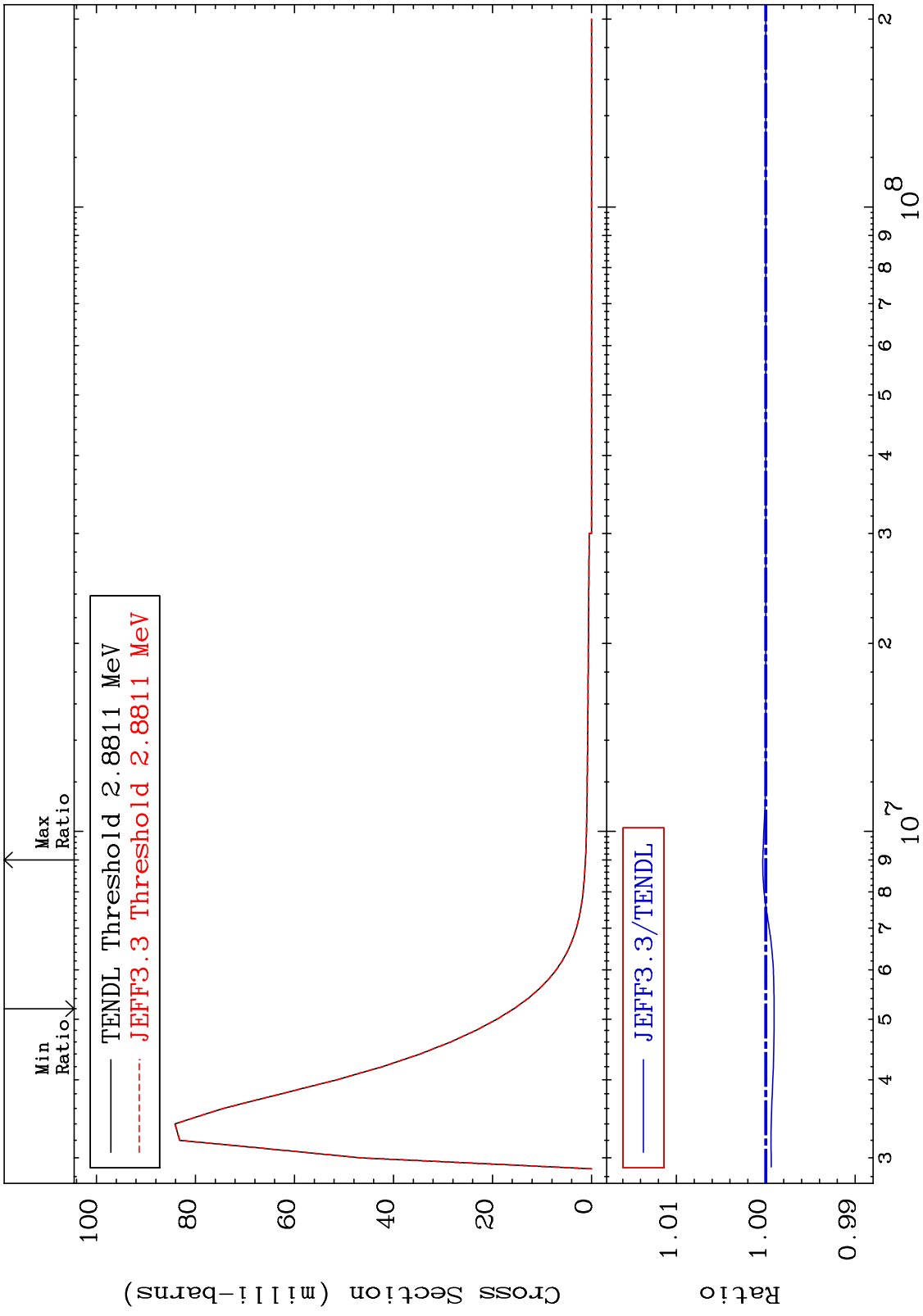
44-Ru-96
-0.117 To 0.209 %



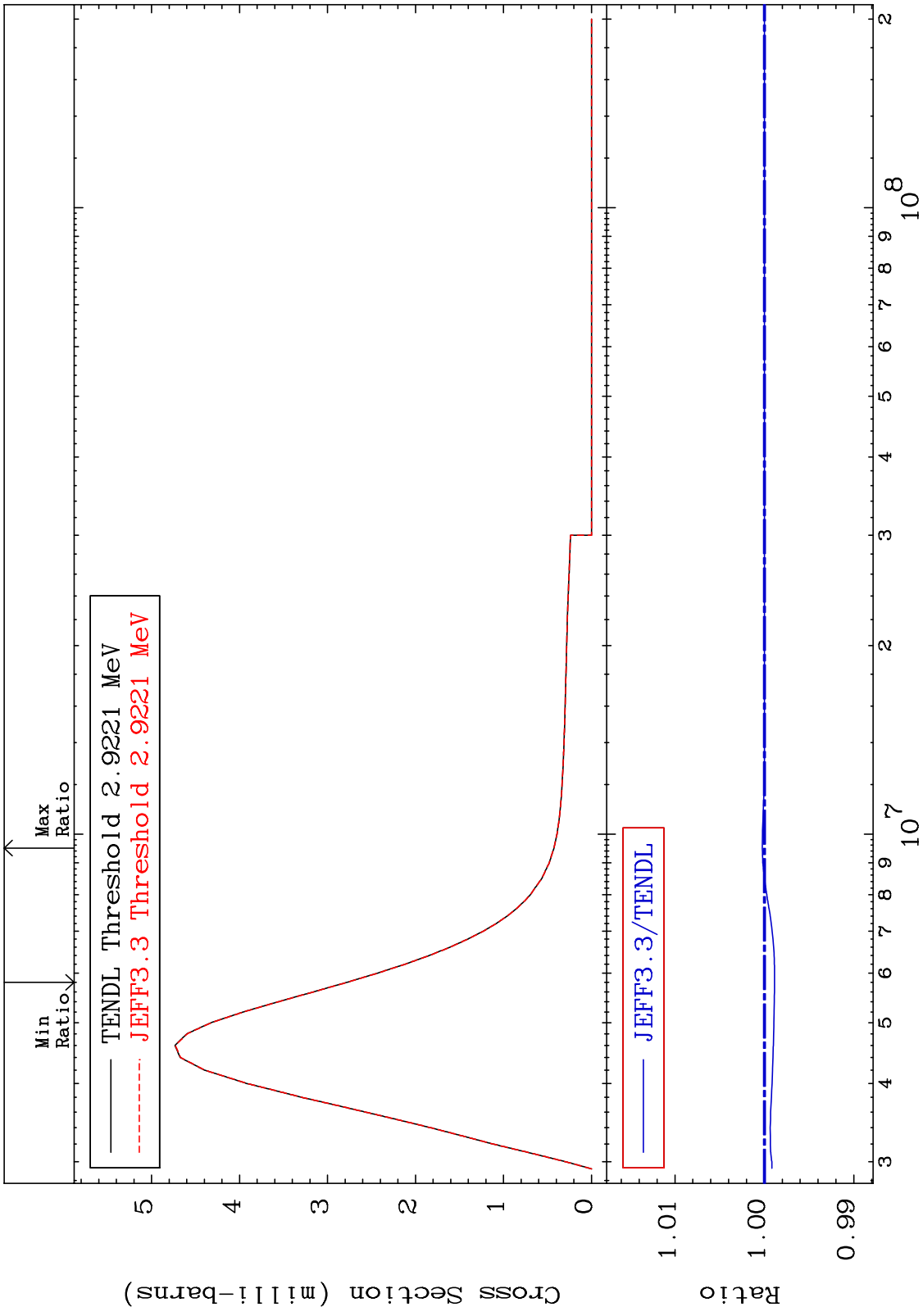
MAT 4425 MT= 67 (n, n') Level Cross Section -0.133 To 0.210 % 44-Ru-96



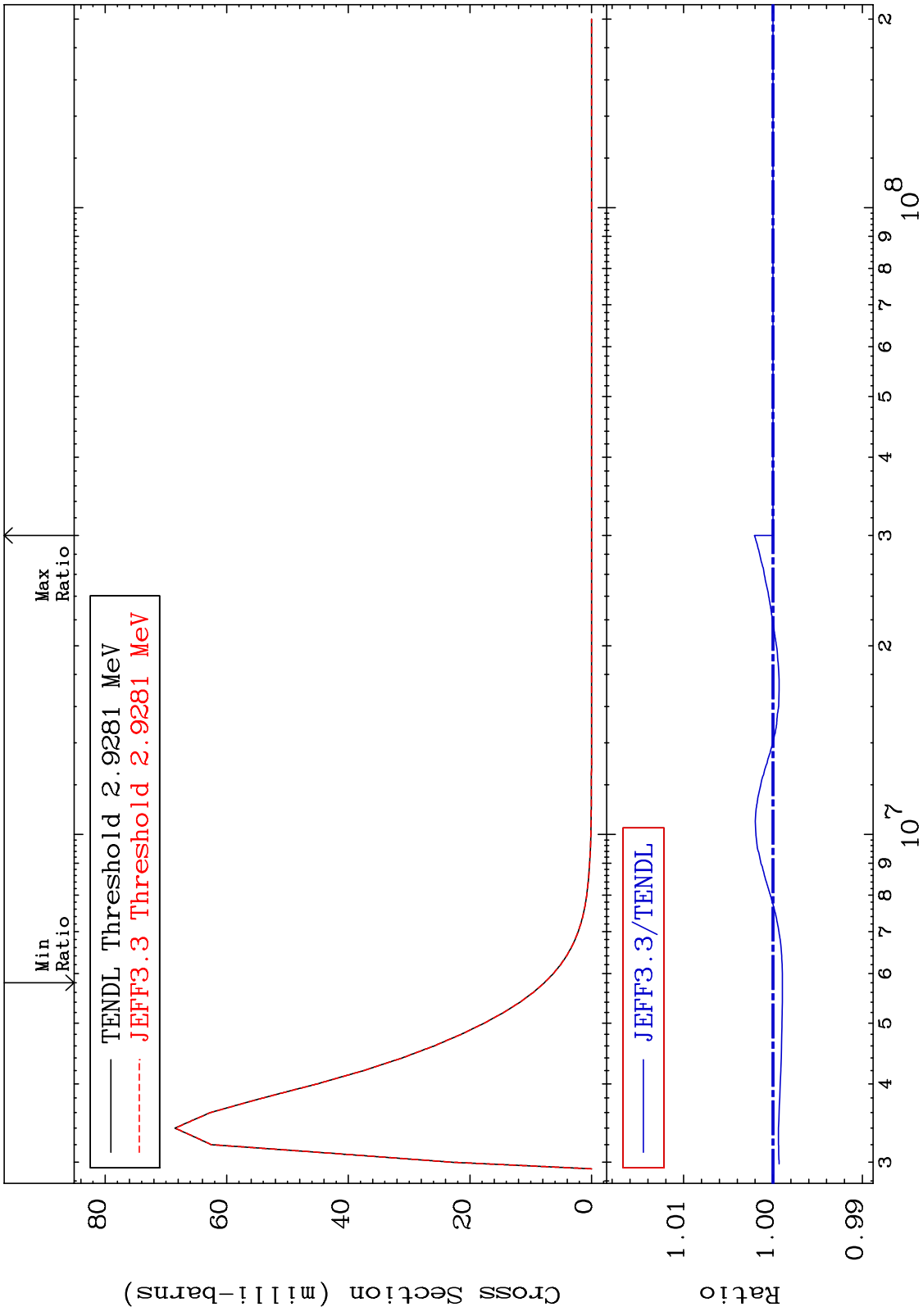
MAT 4425 MT= 68 (n,n') Level Cross Section 44-Ru-96
 -0.093 To 0.034 %



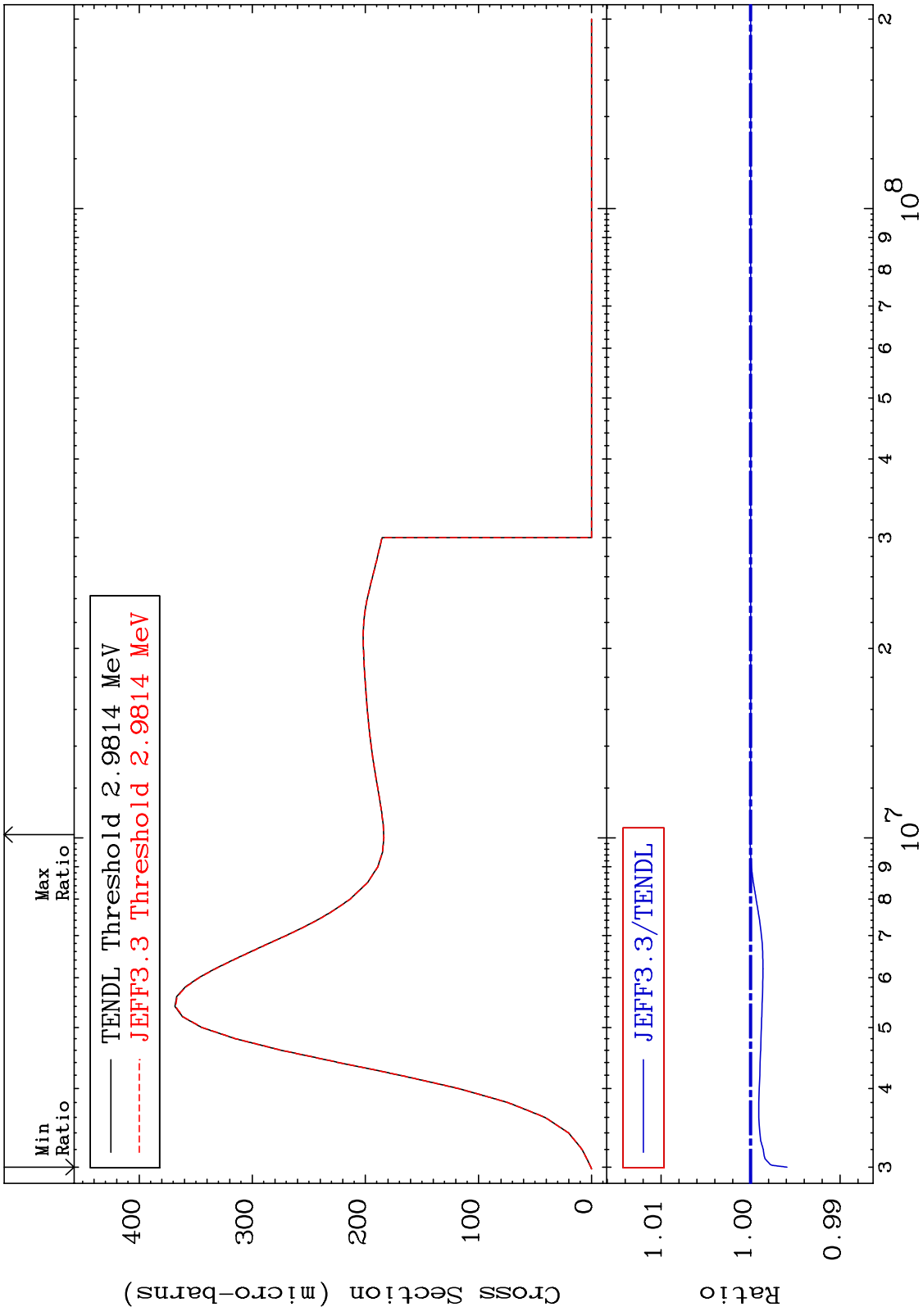
MAT 4425 MT= 69 (n,n') Level Cross Section 44-Ru-96
 -0.114 To 0.023 %



MAT 4425 MT= 70 (n, n') Level Cross Section -0.105 To 0.208 % 44-Ru-96



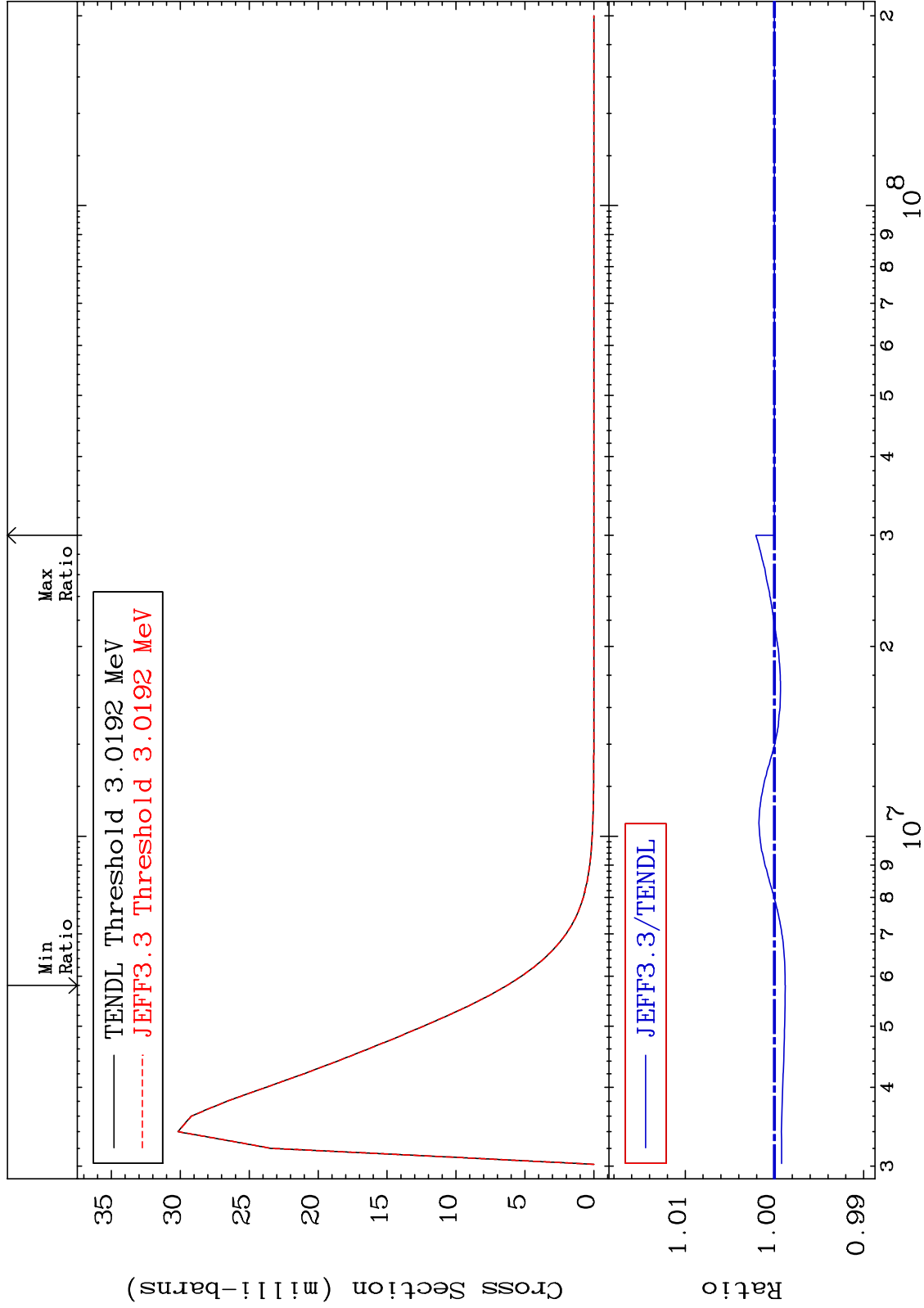
MAT 4425 MT= 71 (n,n') Level Cross Section 44-Ru-96
 -0.406 To 0.007 %



MAT 4425

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

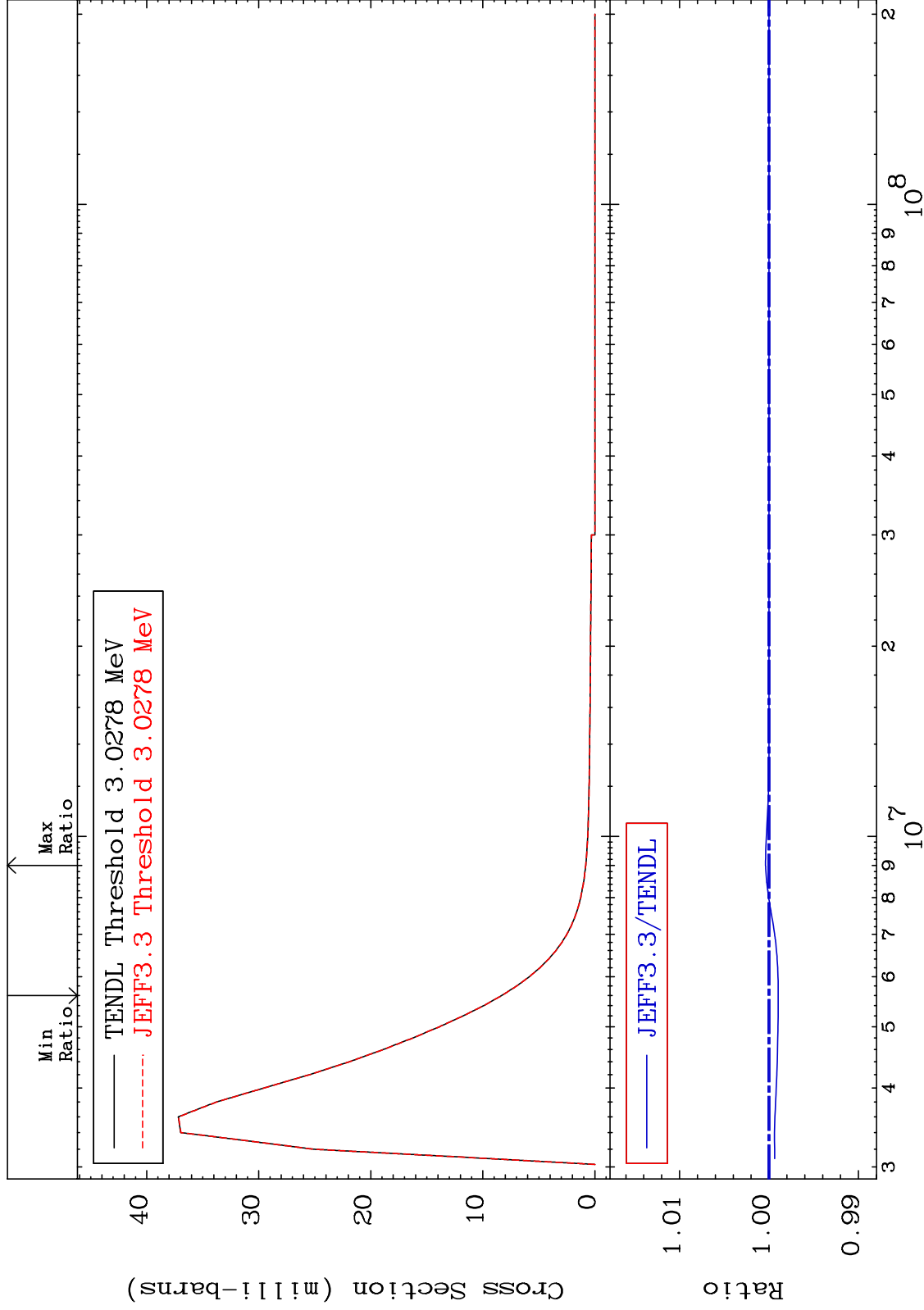
44-Ru-96
-0.120 To 0.209 %



MAT 4425

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

44-Ru-96
-0.103 To 0.039 %



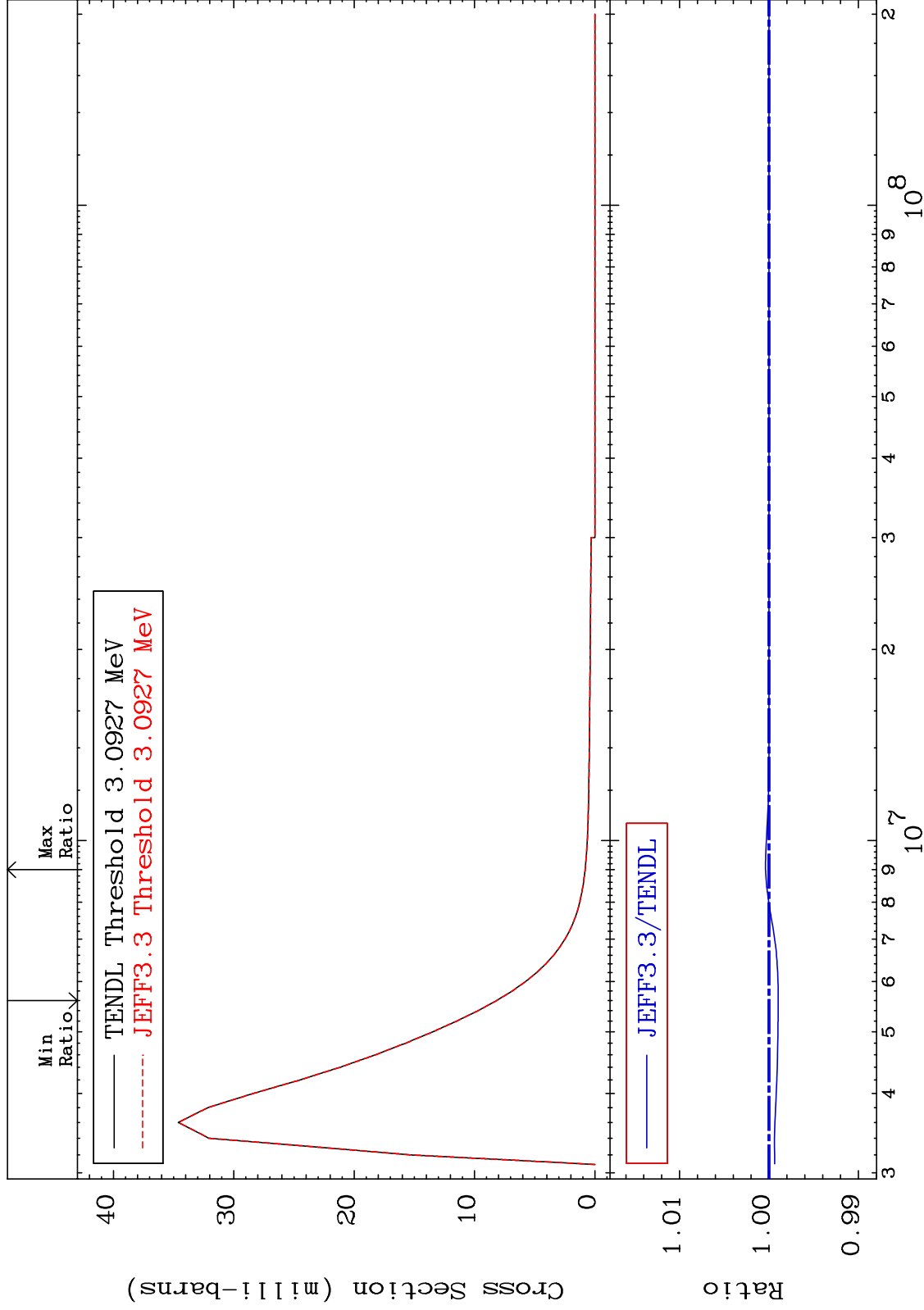
40

44-Ru-96

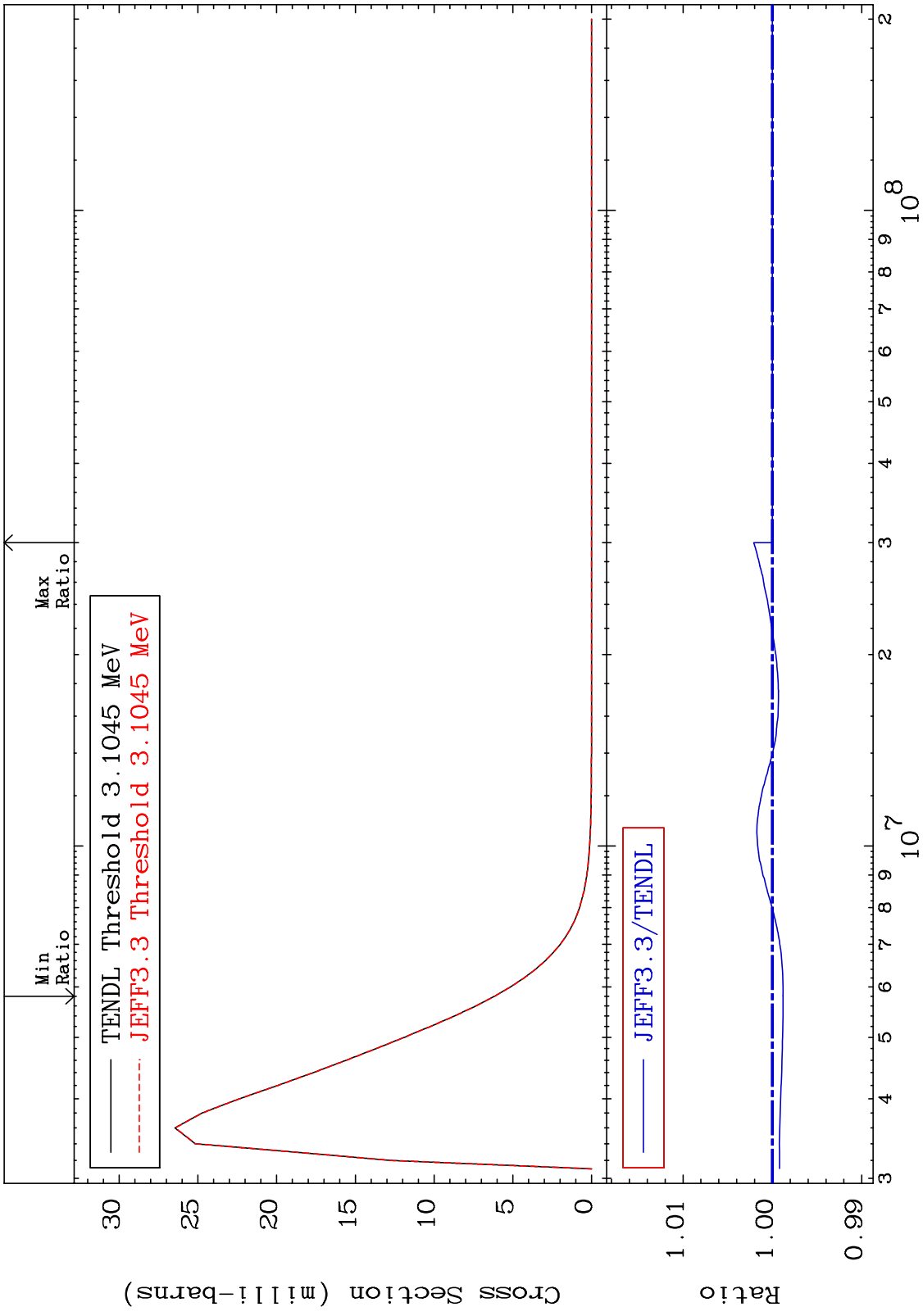
MAT 4425

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

44-Ru-96
-0.103 To 0.039 %



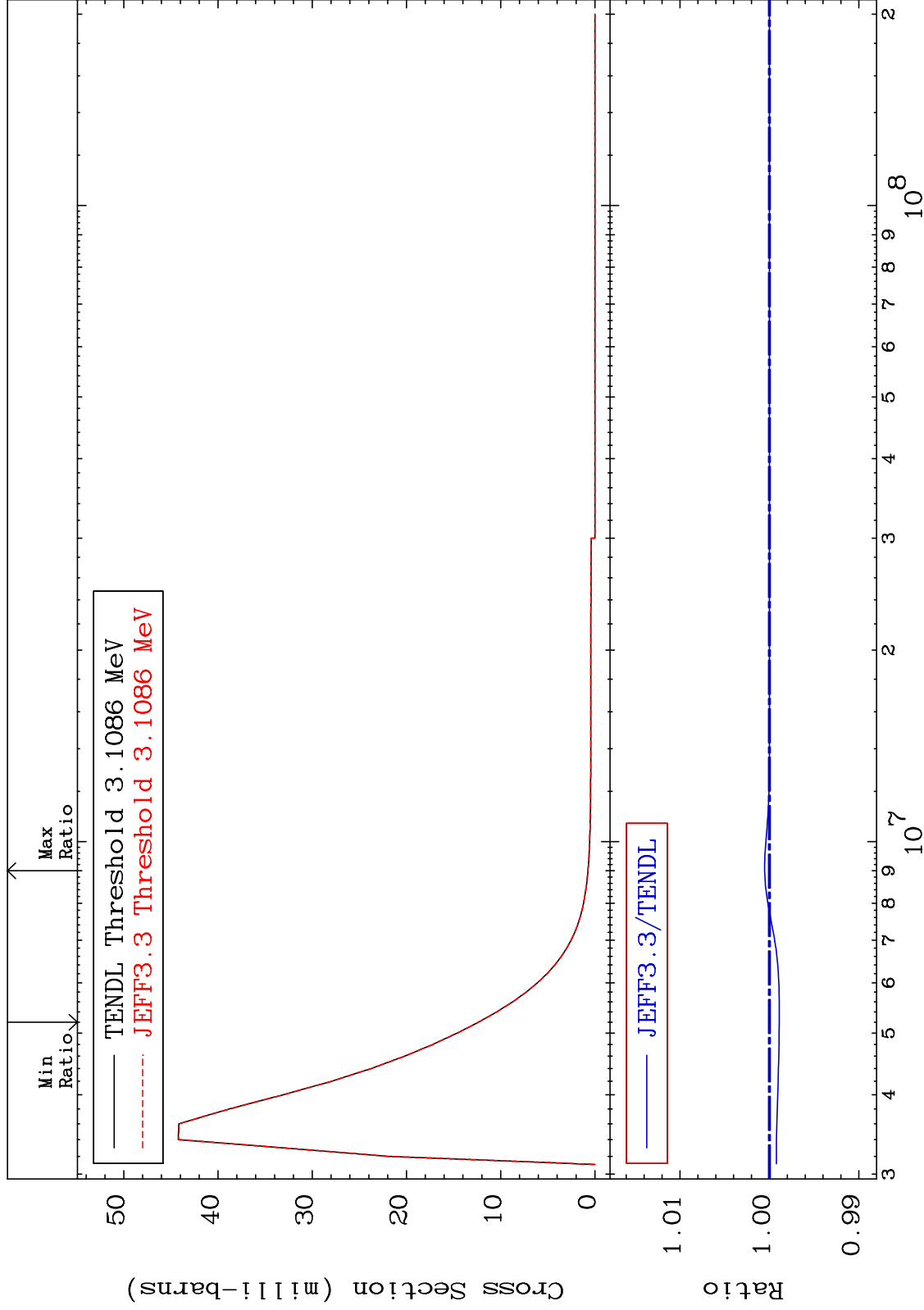
MAT 4425 MT= 75 (n,n') Level Cross Section -0.120 To 0.208 % 44-Ru-96



MAT 4425

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

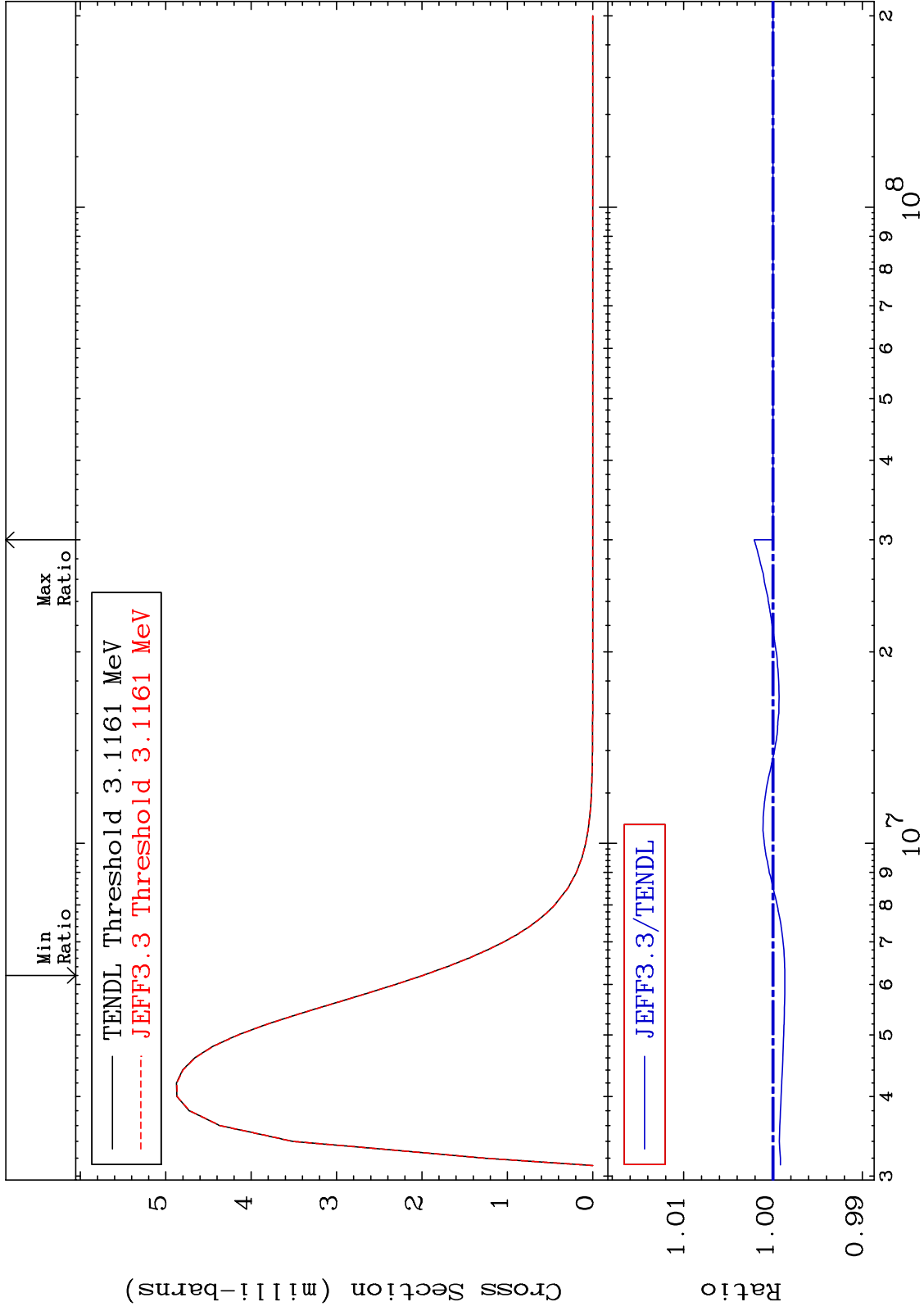
44-Ru-96
-0.110 To 0.055 %



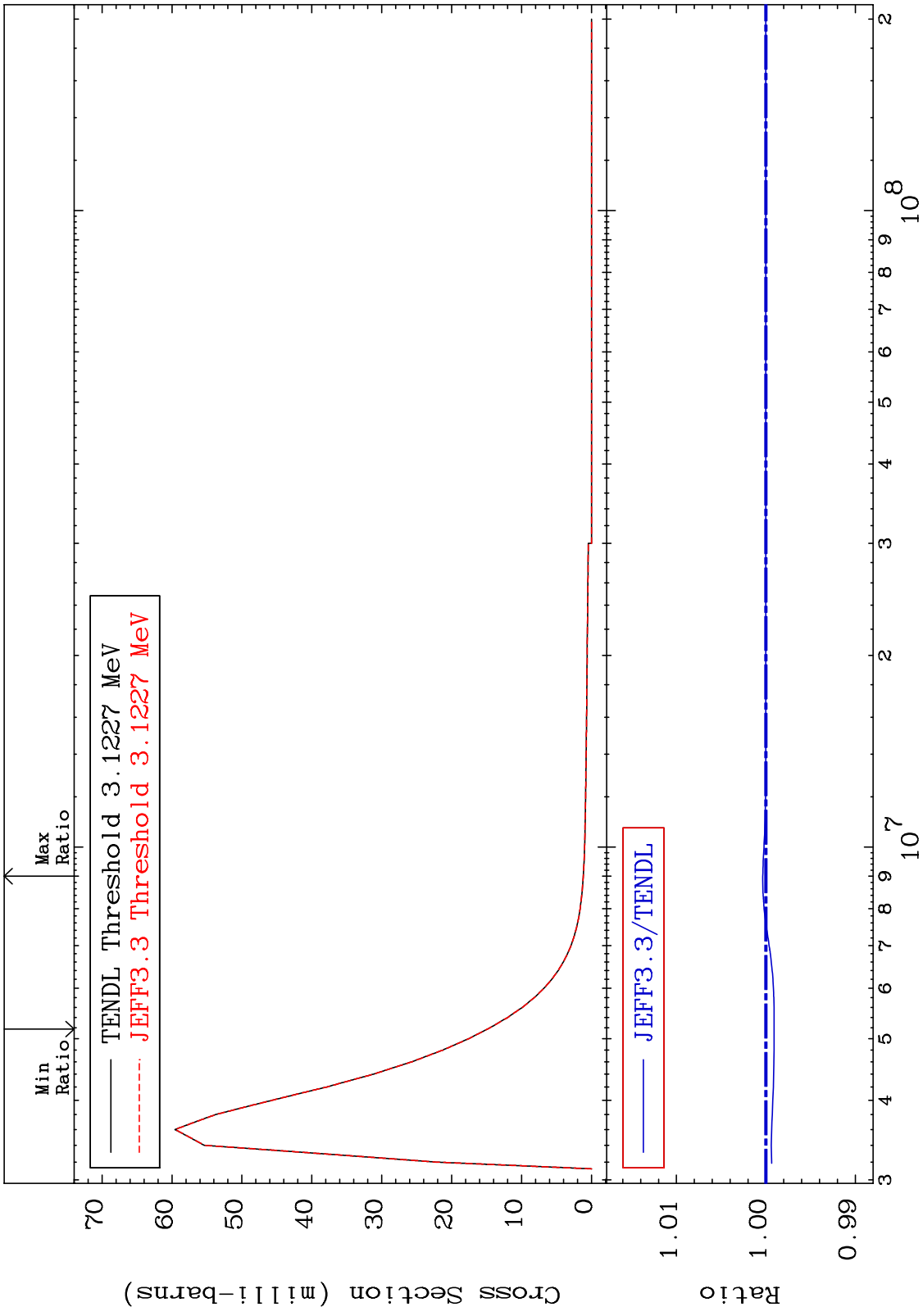
MAT 4425

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

44-Ru-96
-0.134 To 0.210 %



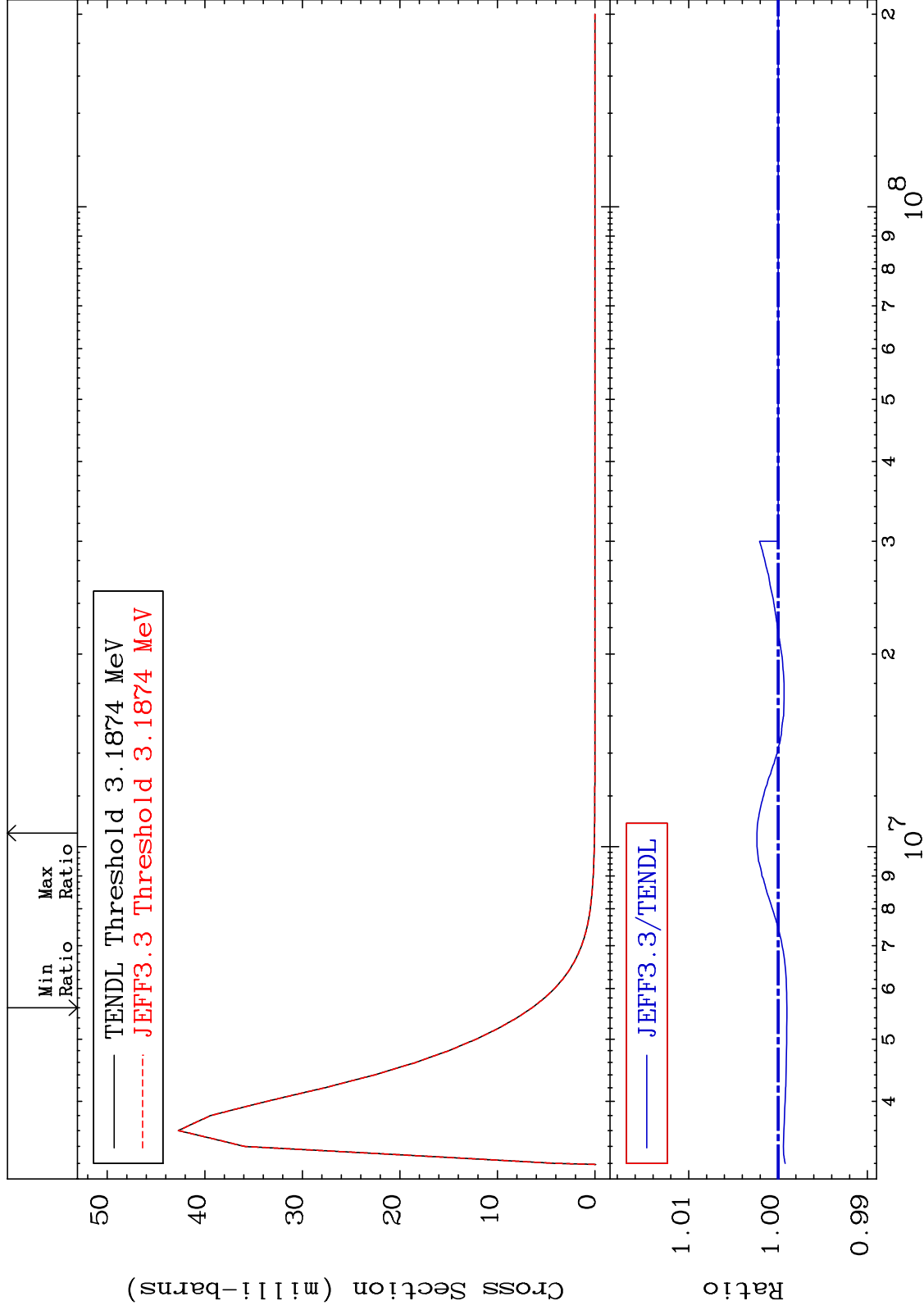
MAT 4425 MT= 78 (n,n') Level Cross Section 44-Ru-96
-0.093 To 0.035 %



MAT 4425

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

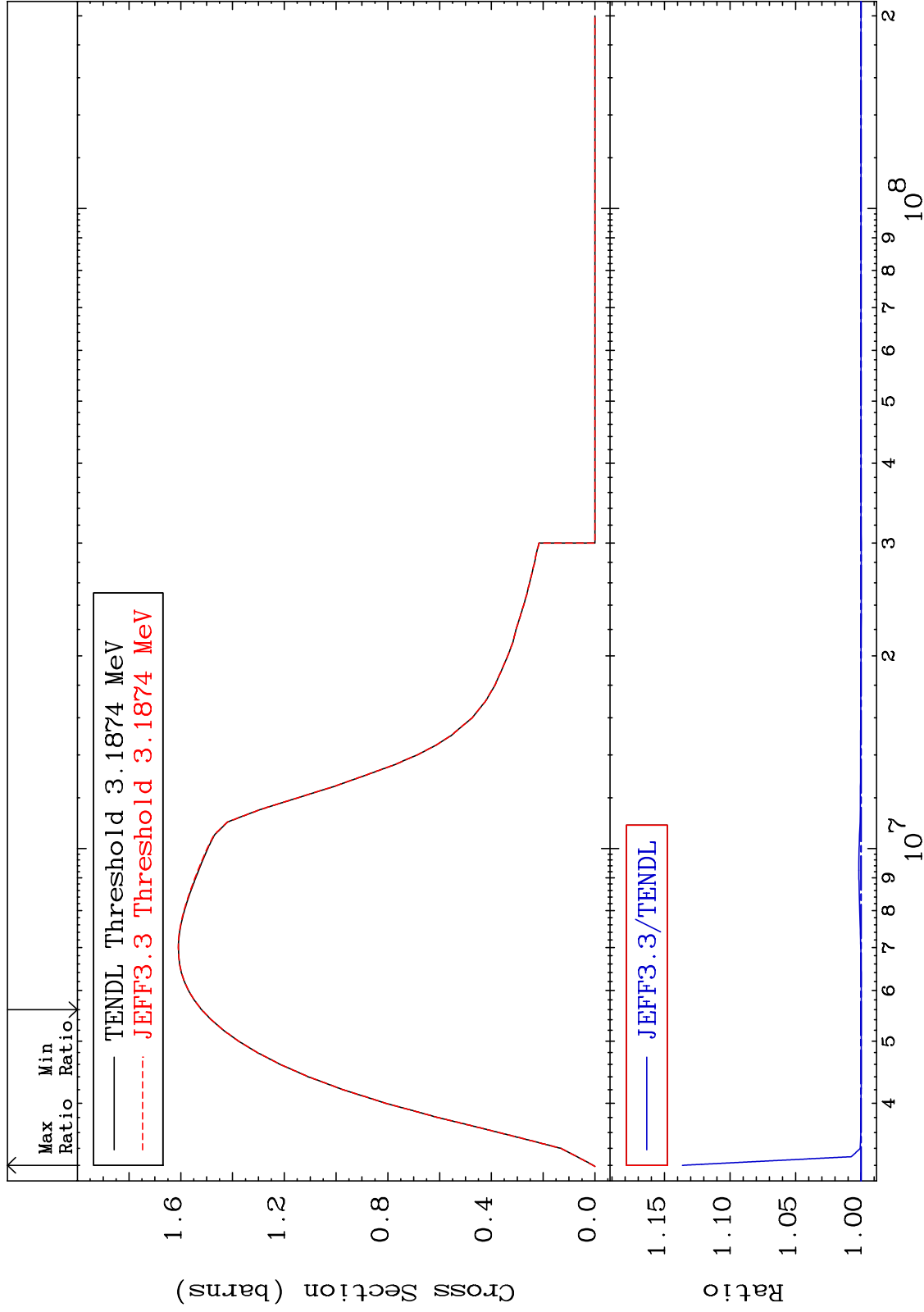
44-Ru-96
-0.098 To 0.237 %



MAT 4425

(n,n') Continuum
Cross Section

44-Ru-96
-0.012 To 13.62 %



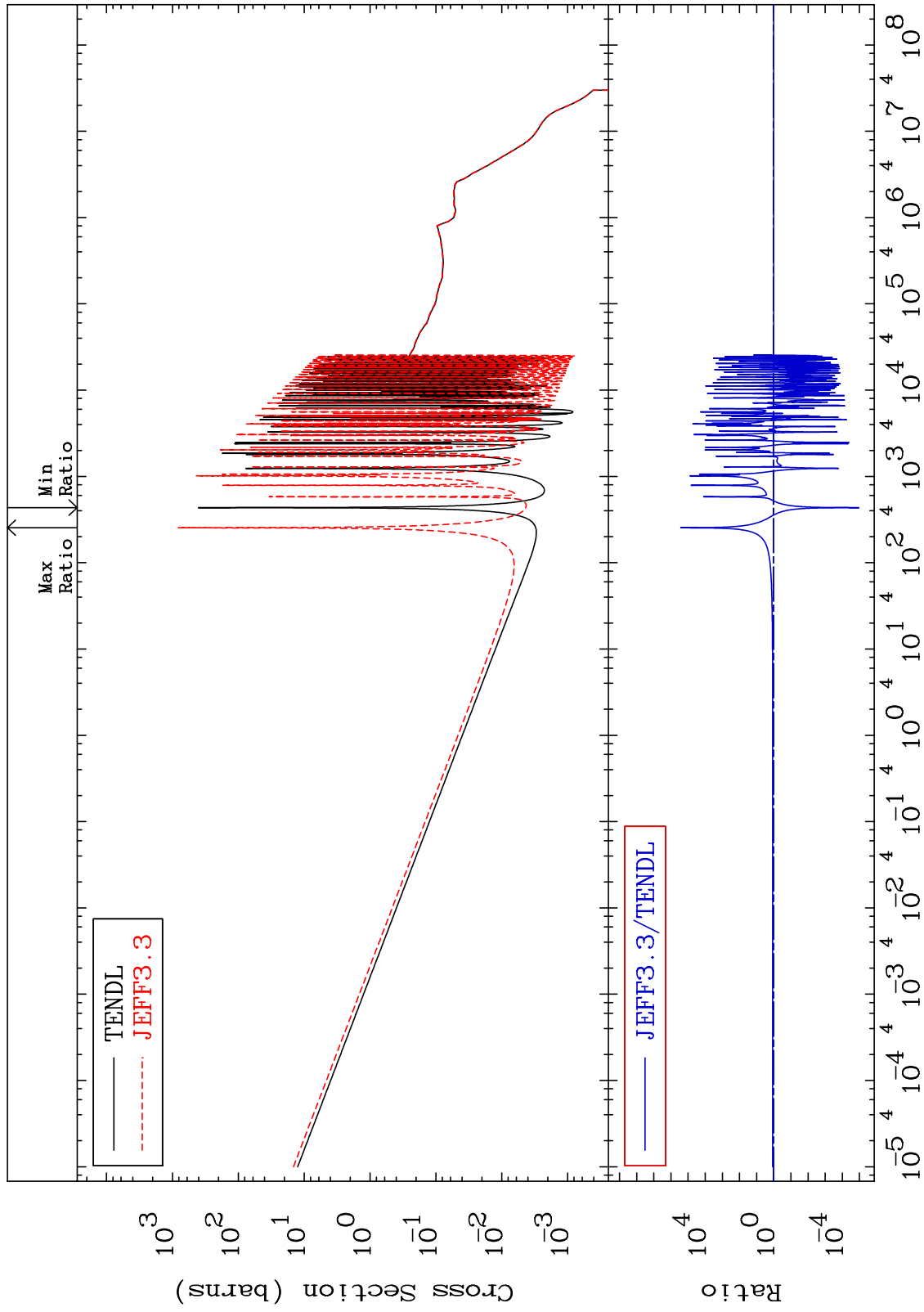
47

Incident Energy (eV)

44-Ru-96

MAT 4425

(n, γ) Cross Section
44-Ru-96
-100.0 To 9999. %

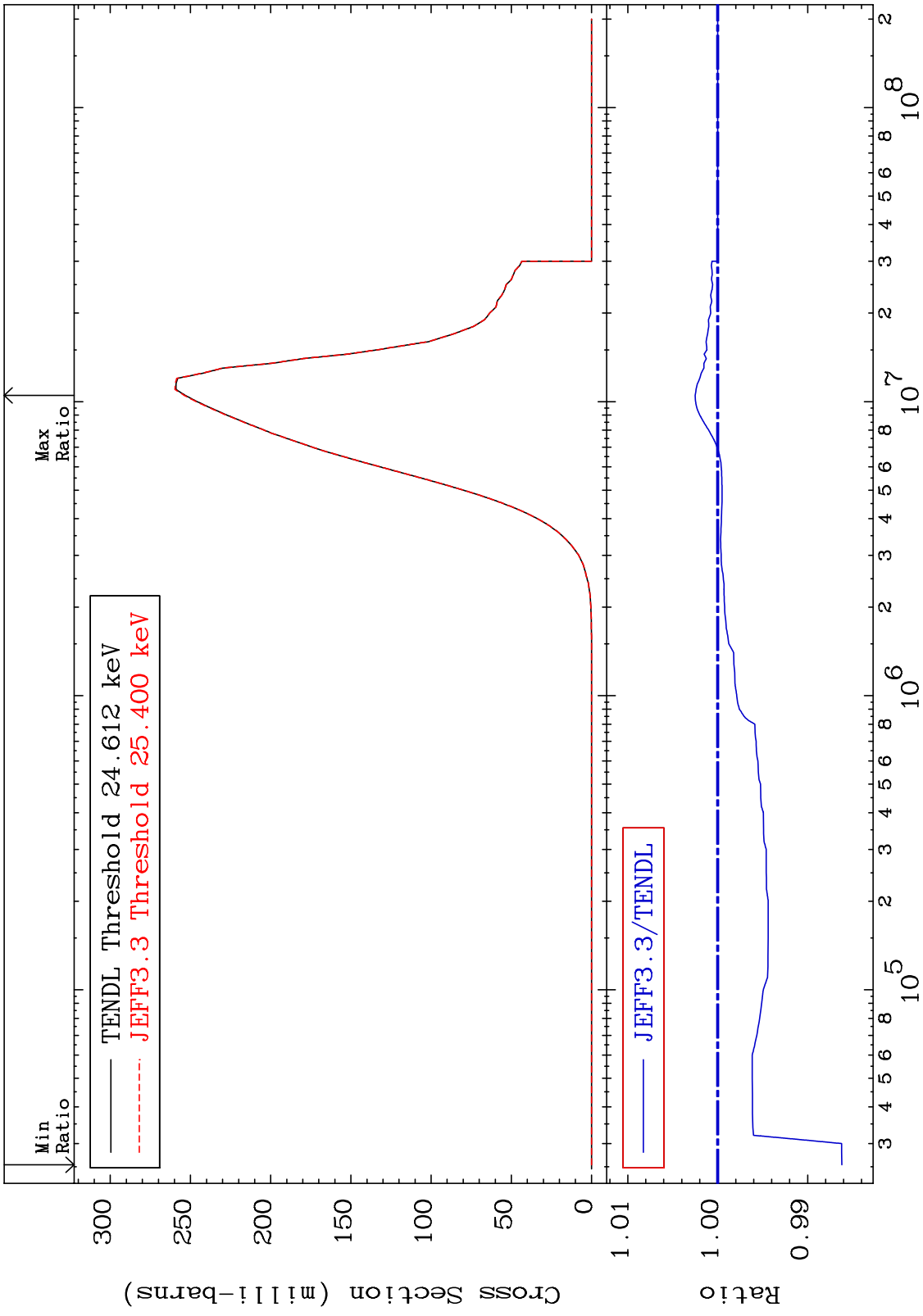


48

Incident Energy (eV)

44-Ru-96

MAT 4425 (n,p) Cross Section 44-Ru-96
 -1.381 To 0.252 %



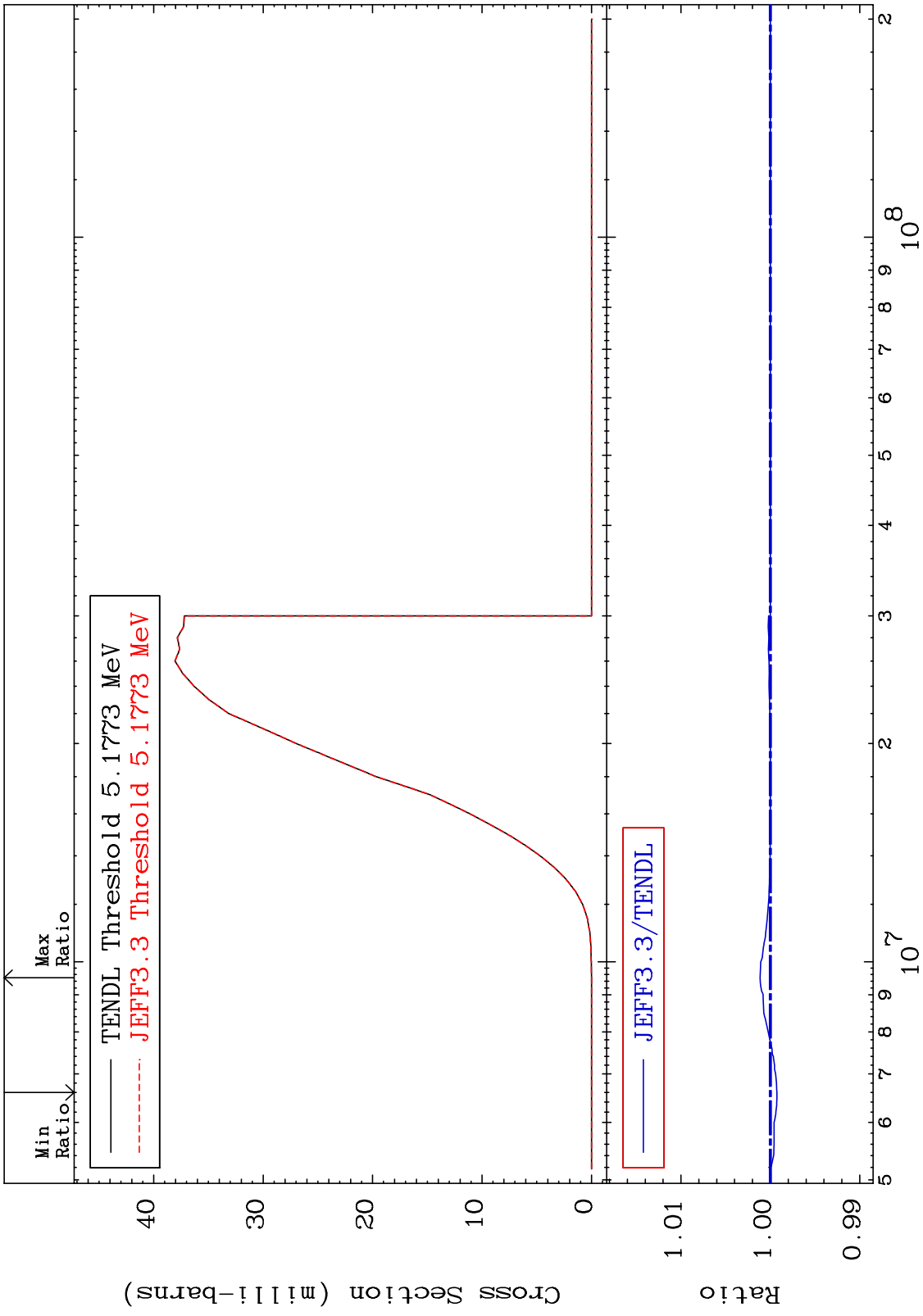
MAT 4425

(n,d)

44-Ru-96

Cross Section

-0.073 To 0.115 %

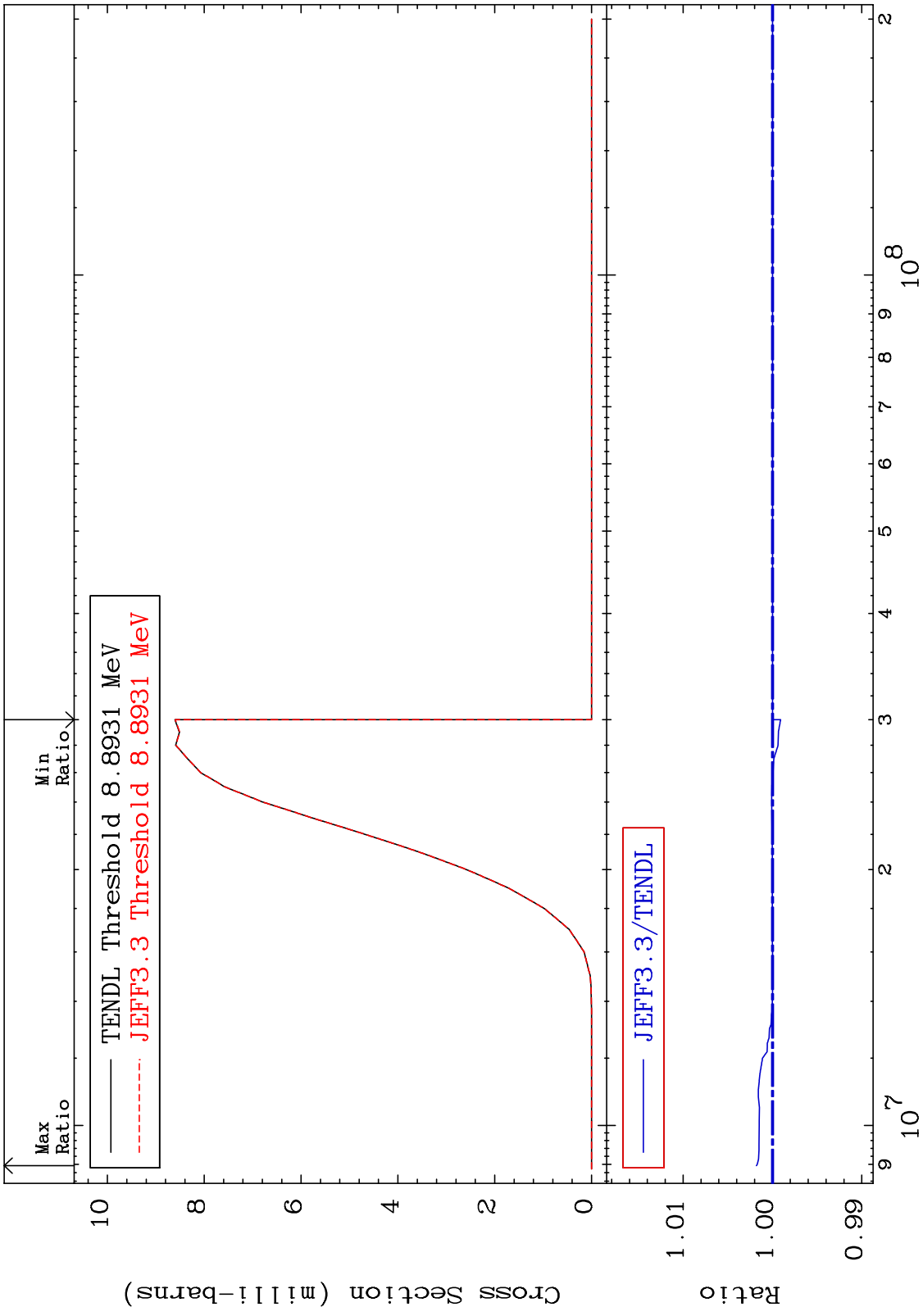


44-Ru-96

Incident Energy (eV)

50

MAT 4425 (n,t) 44-Ru-96
Cross Section -0.090 To 0.180 %



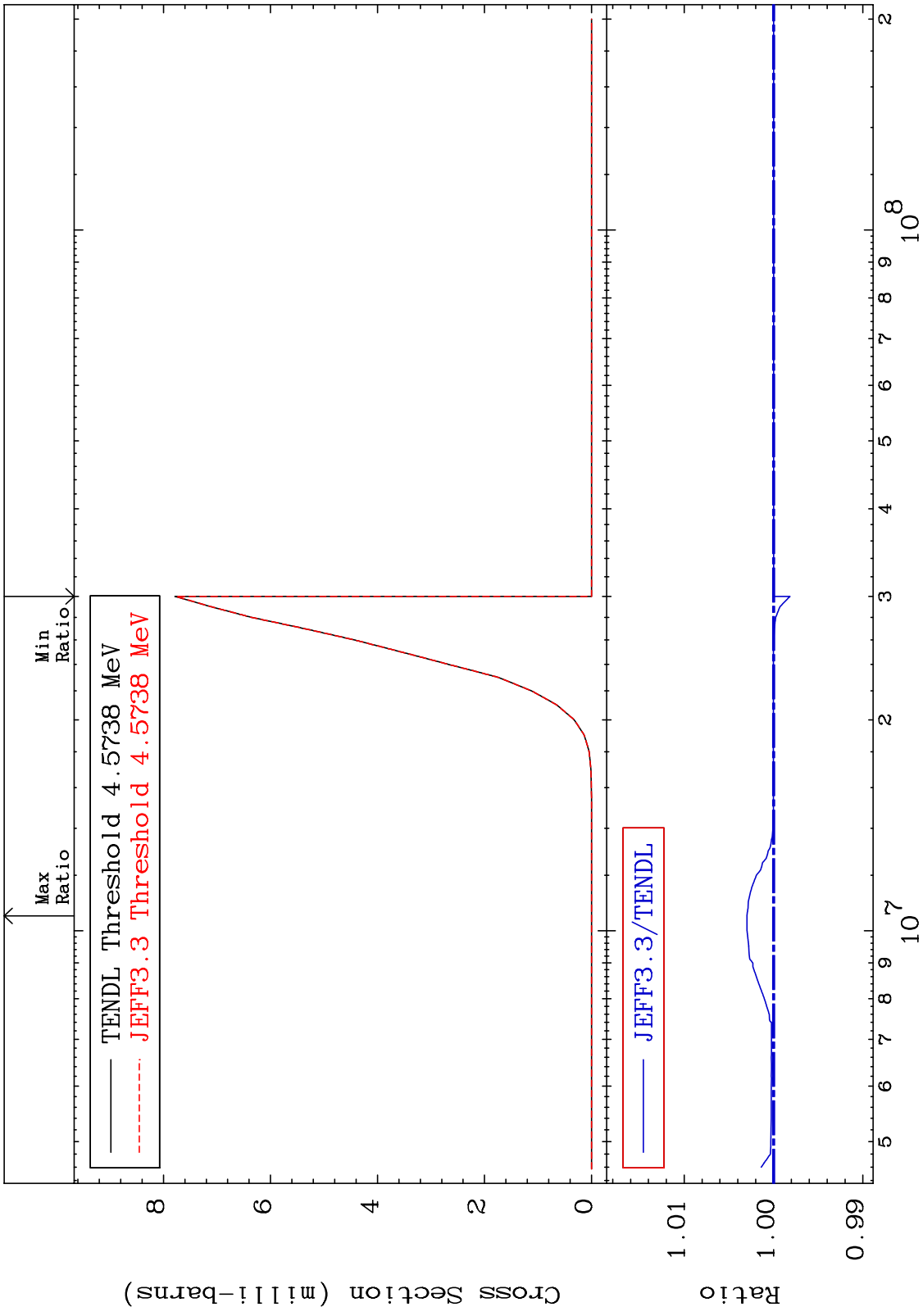
MAT 4425

(n, He-3)

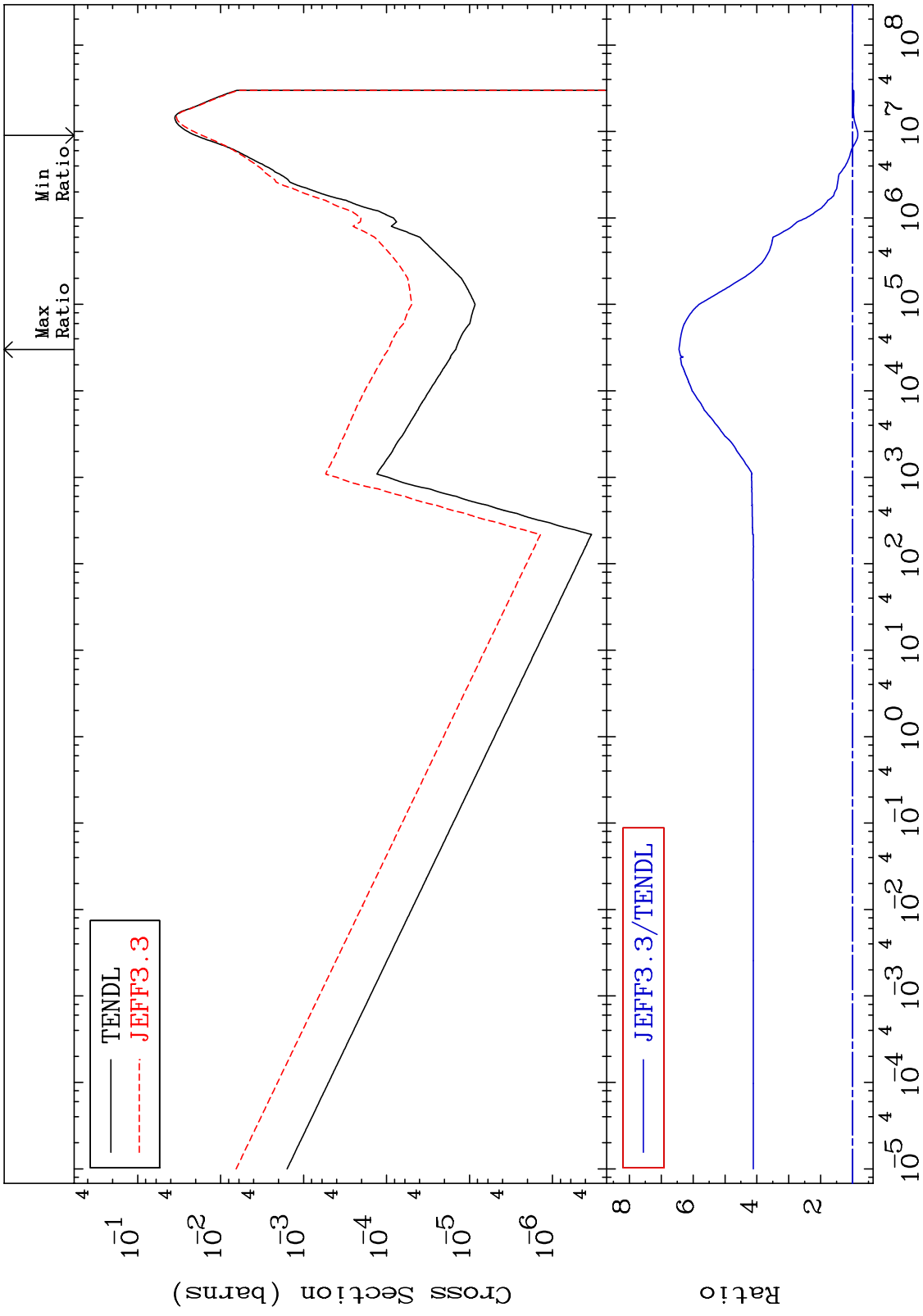
44-Ru-96

Cross Section

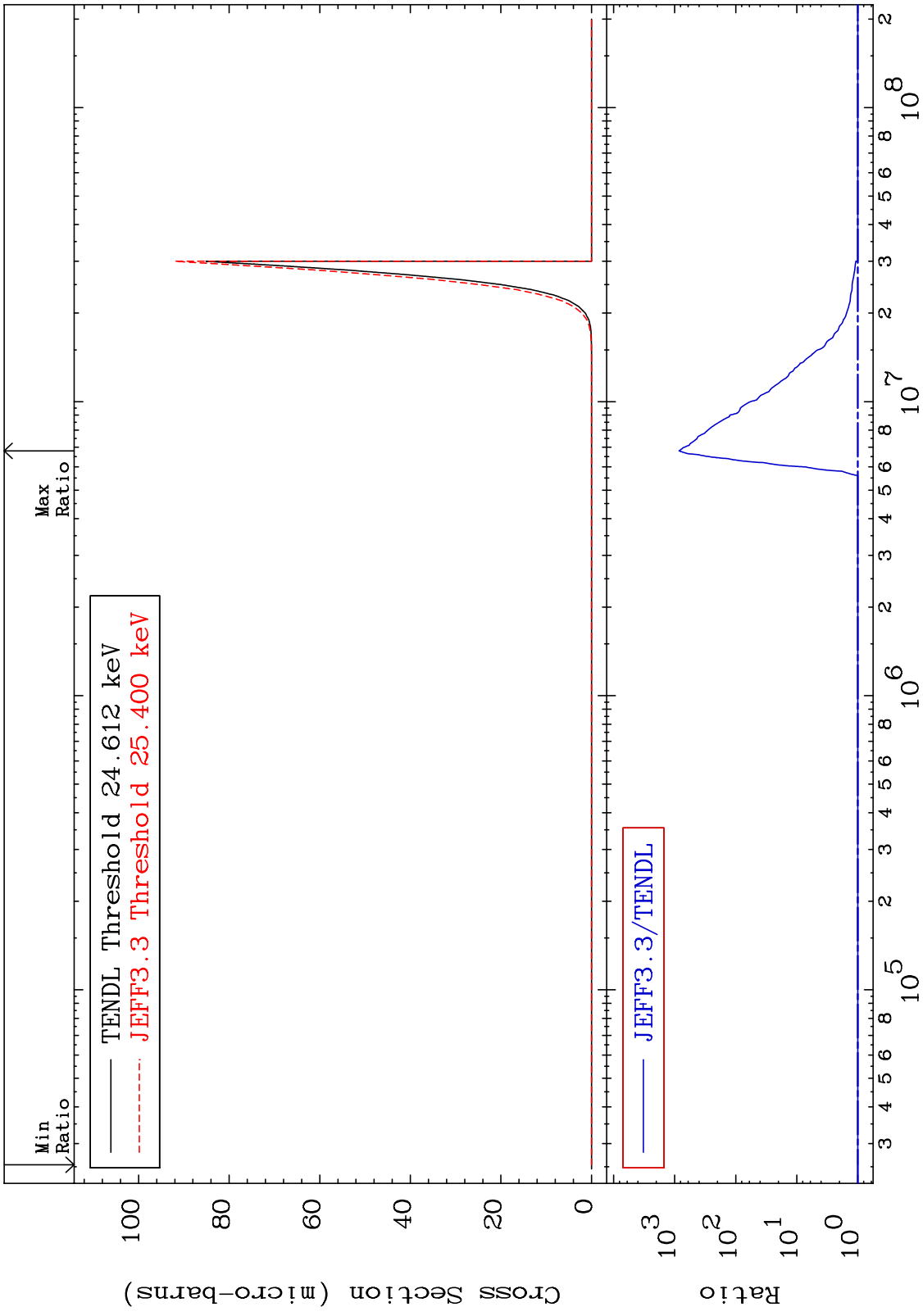
-0.184 To 0.299 %



MAT 4425 44-Ru-96
-16.68 To 544.1 %
 (n, α)
 Cross Section



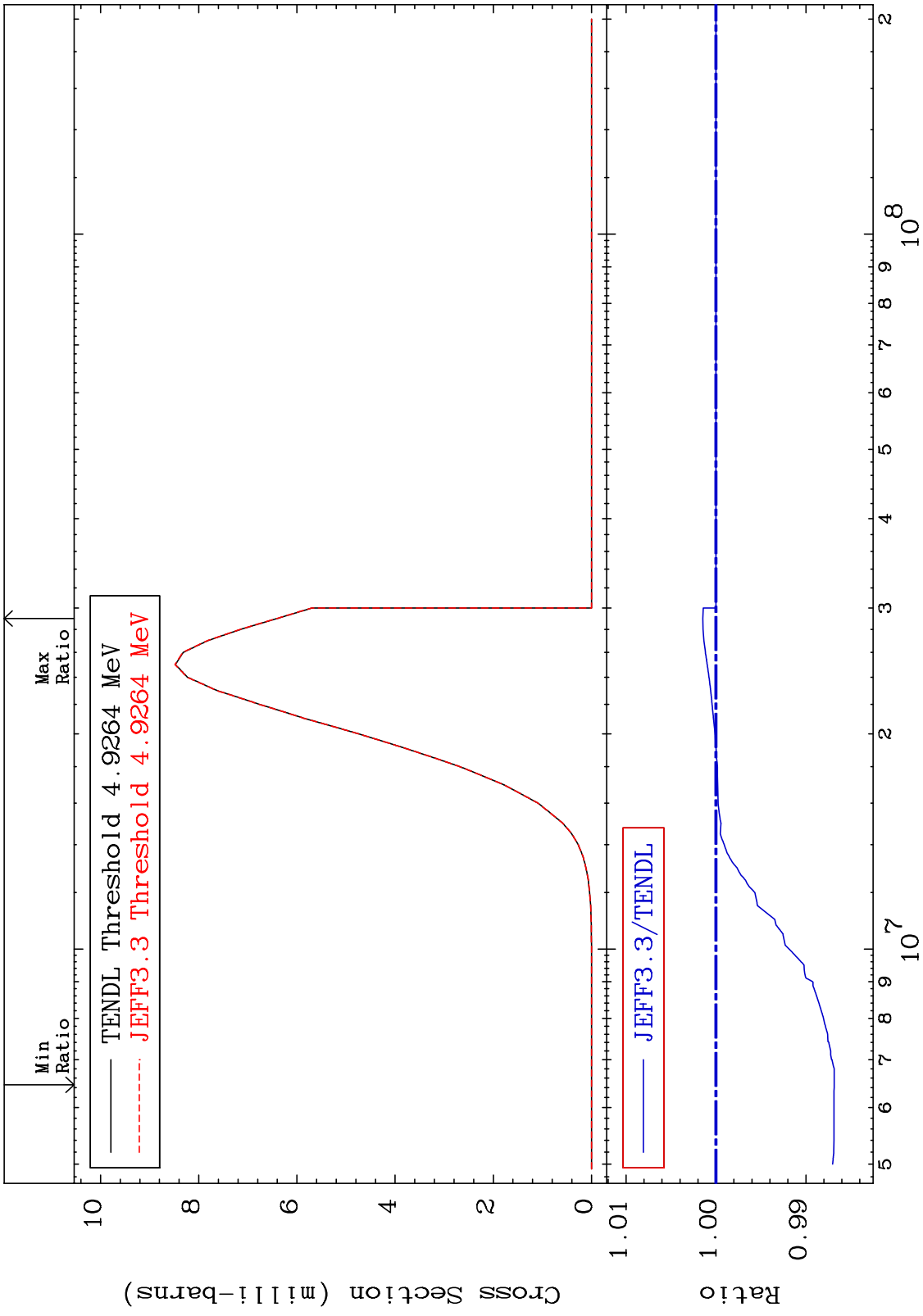
MAT 4425 (n,2α) Cross Section 44-Ru-96 To 9999. %



MAT 4425

(n,2p)
Cross Section

44-Ru-96
-1.314 To 0.147 %



44-Ru-96

Incident Energy (eV)

55

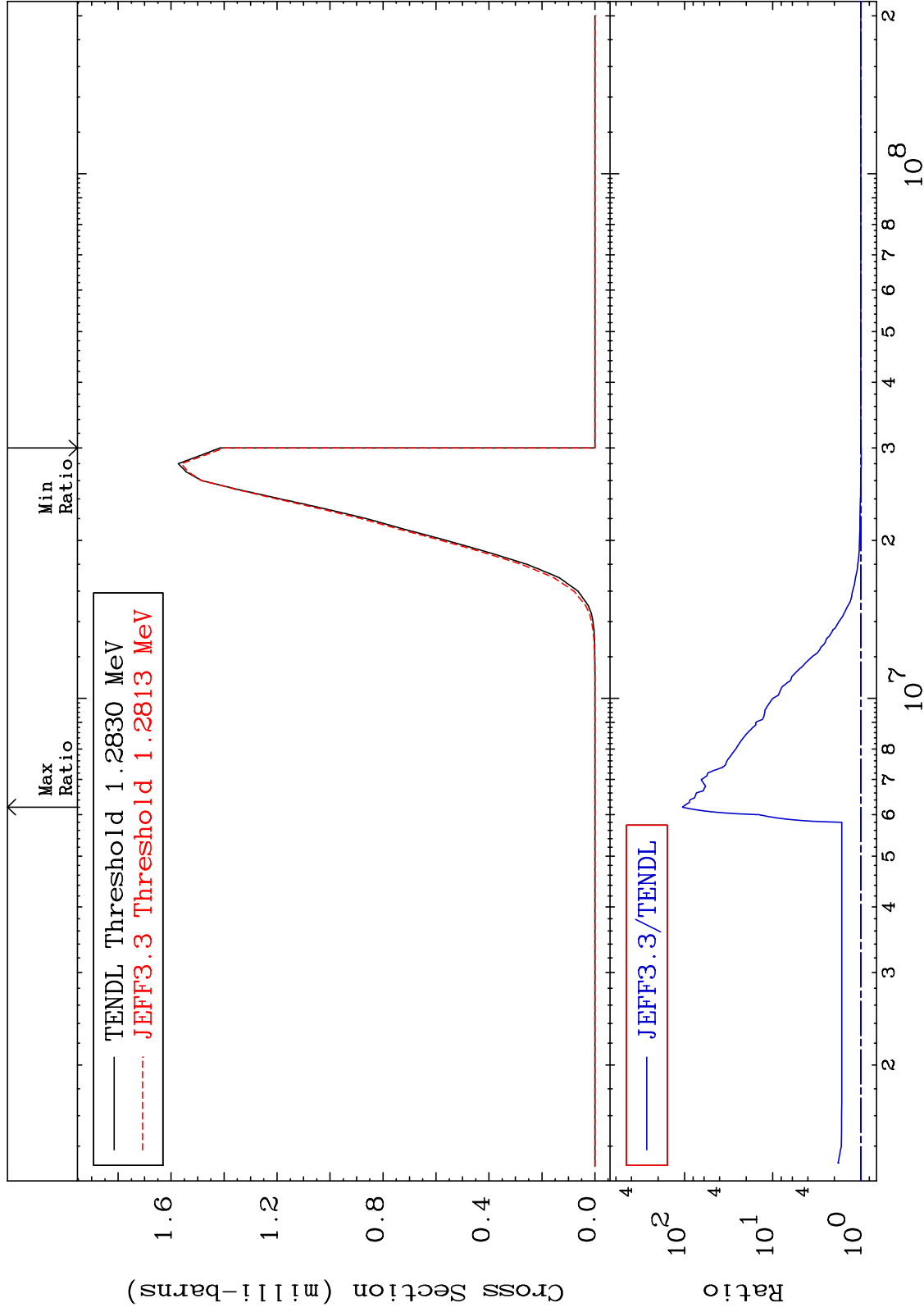
MAT 4425

(n,p) α

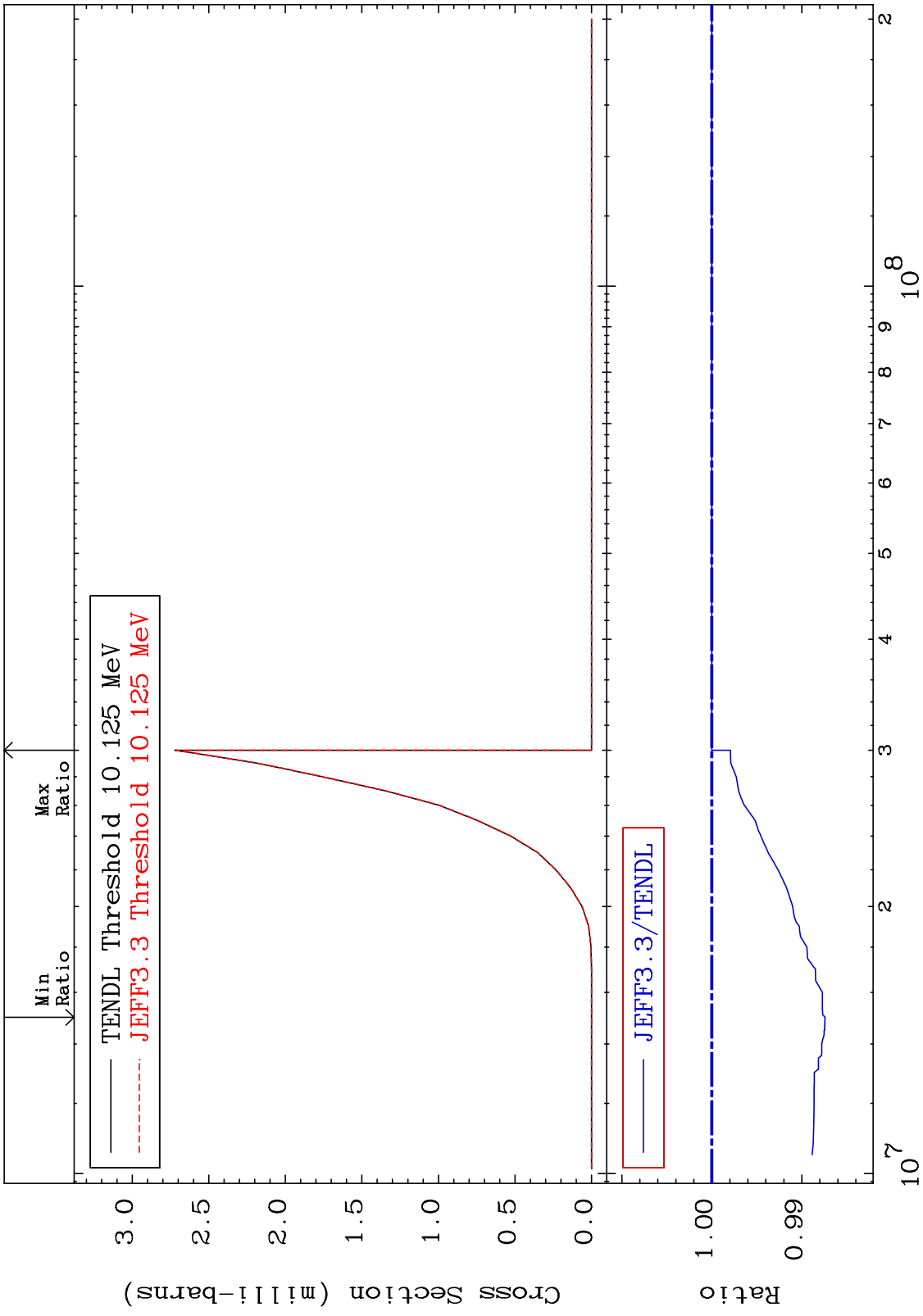
44-Ru-96

Cross Section

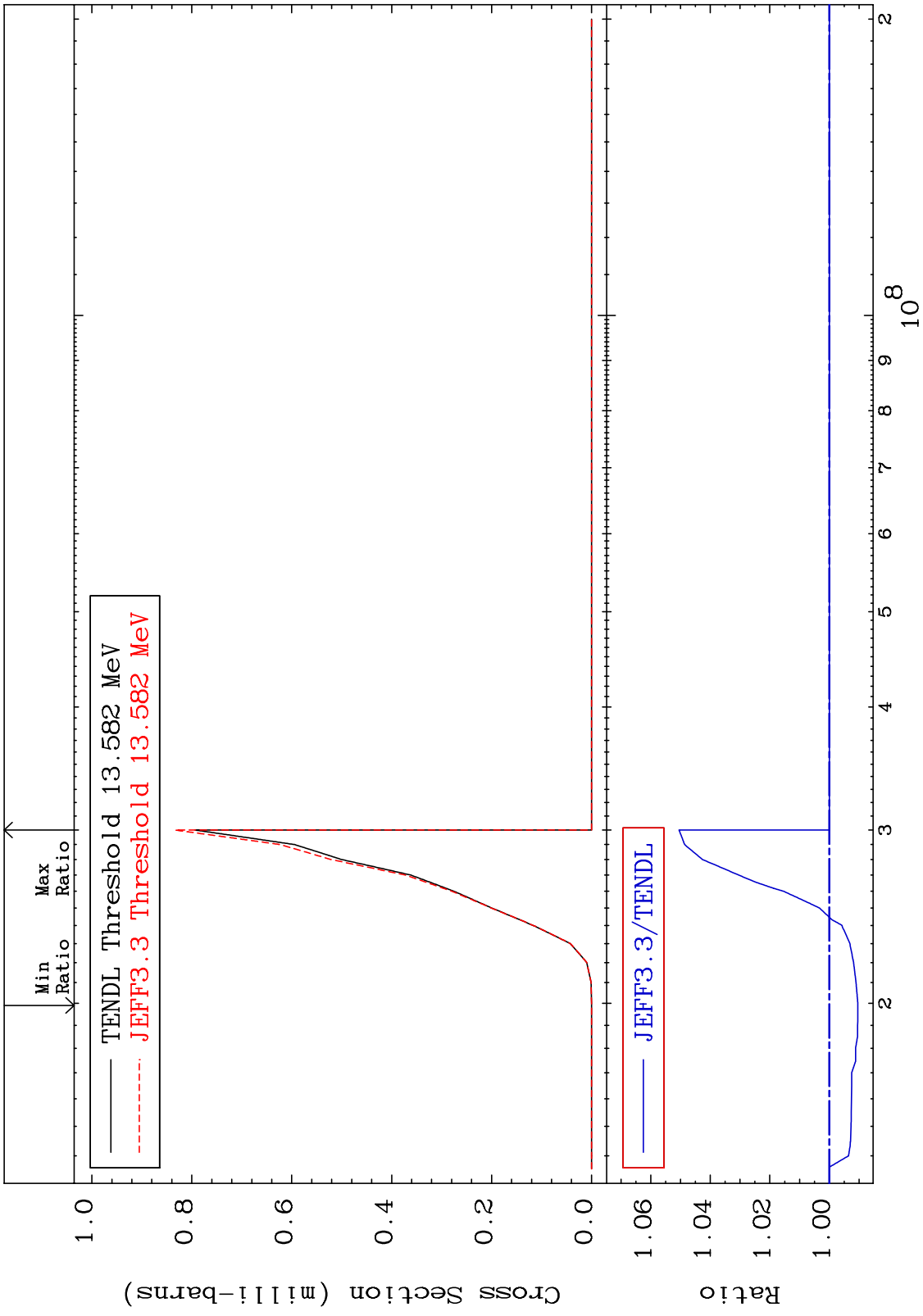
-1.125 To 9999. %



MAT 4425 (n,p) d 44-Ru-96
 Cross Section -1.258 To 0.000 %



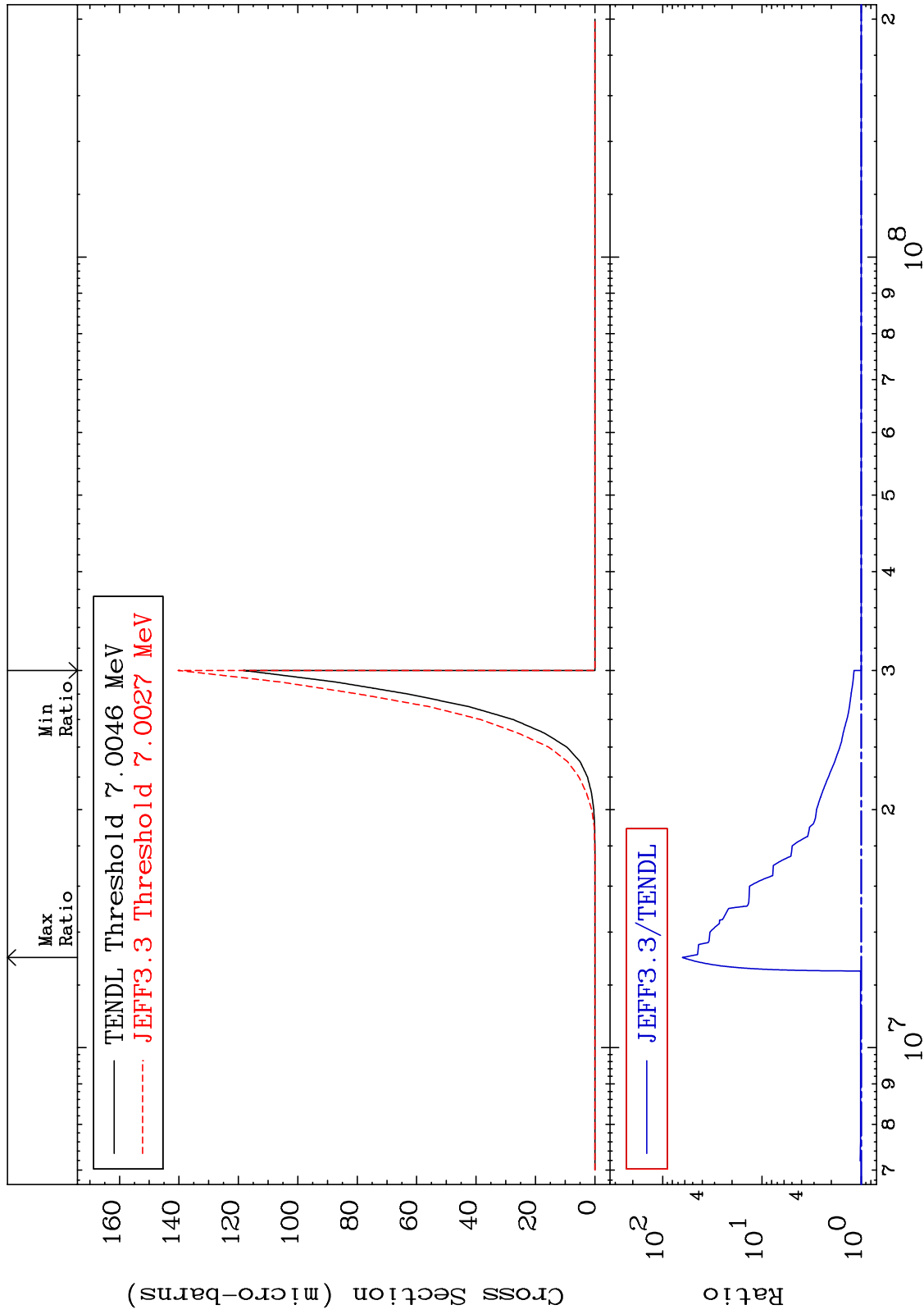
MAT 4425 (n,p) t 44-Ru-96
 Cross Section -0.961 To 5.052 %



MAT 4425

(n,d) α

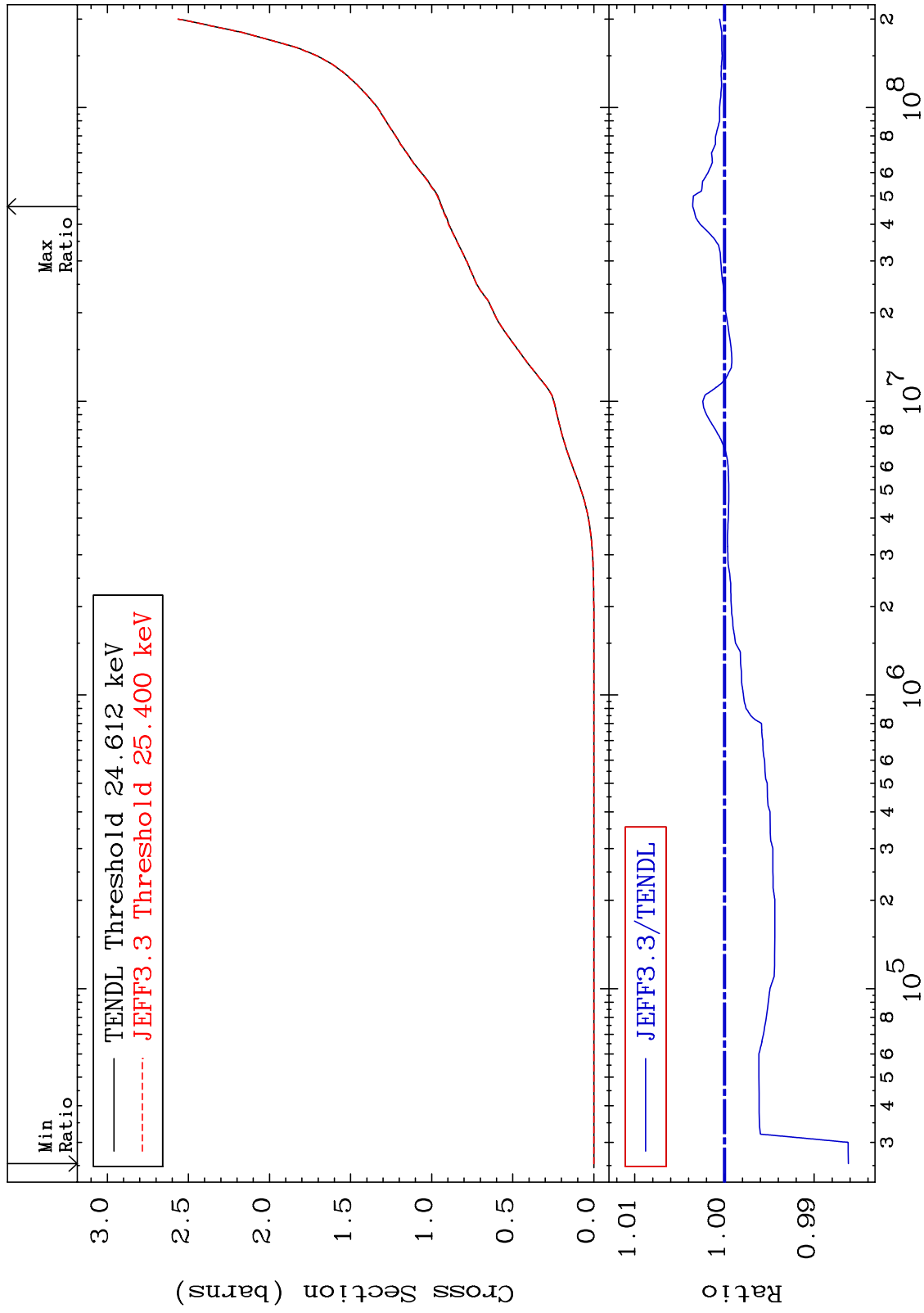
44-Ru-96
0.000 To 6223. %



MAT 4425

Hydrogen Production
Cross Section

44-Ru-96
-1.381 To 0.355 %



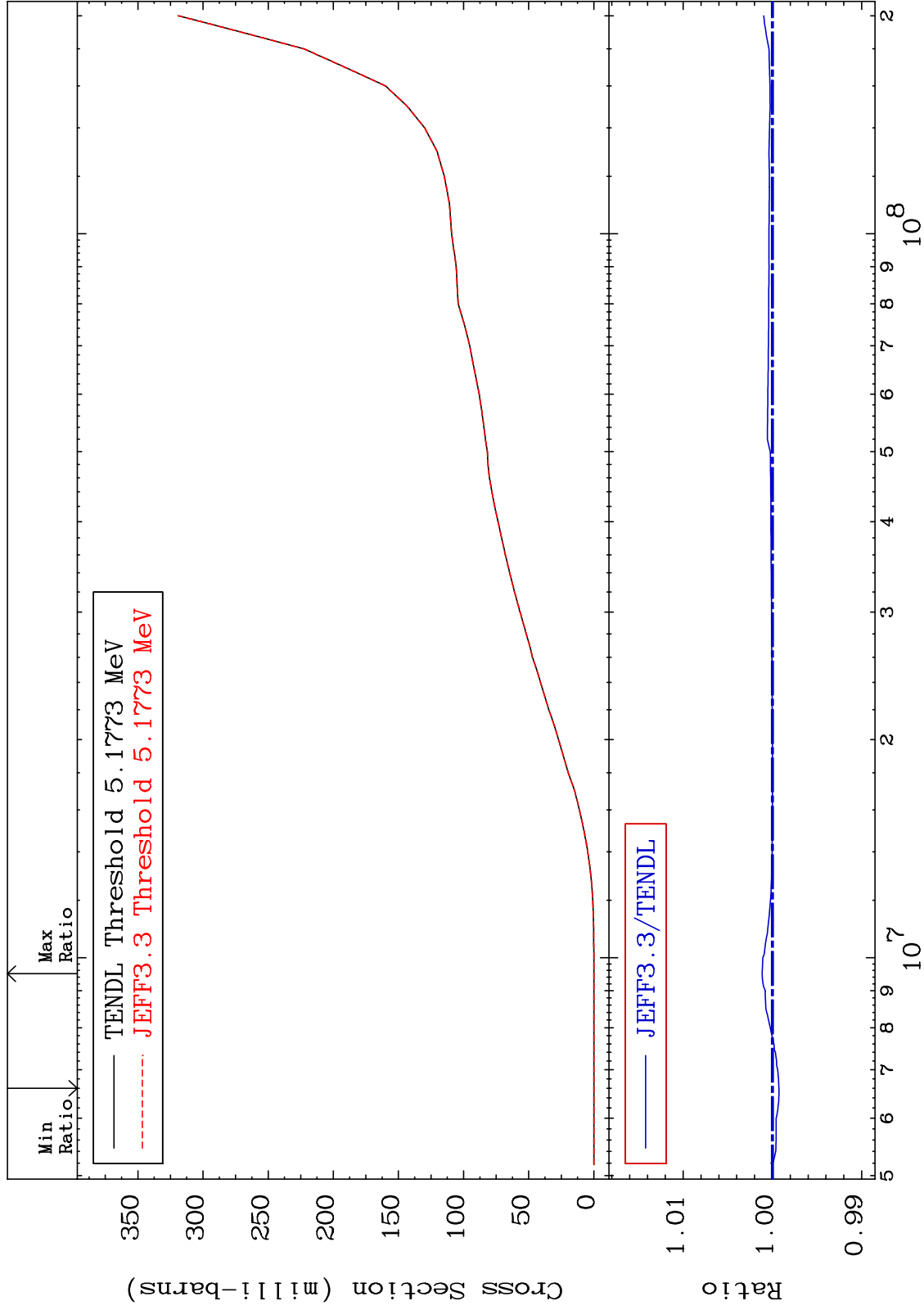
60

44-Ru-96

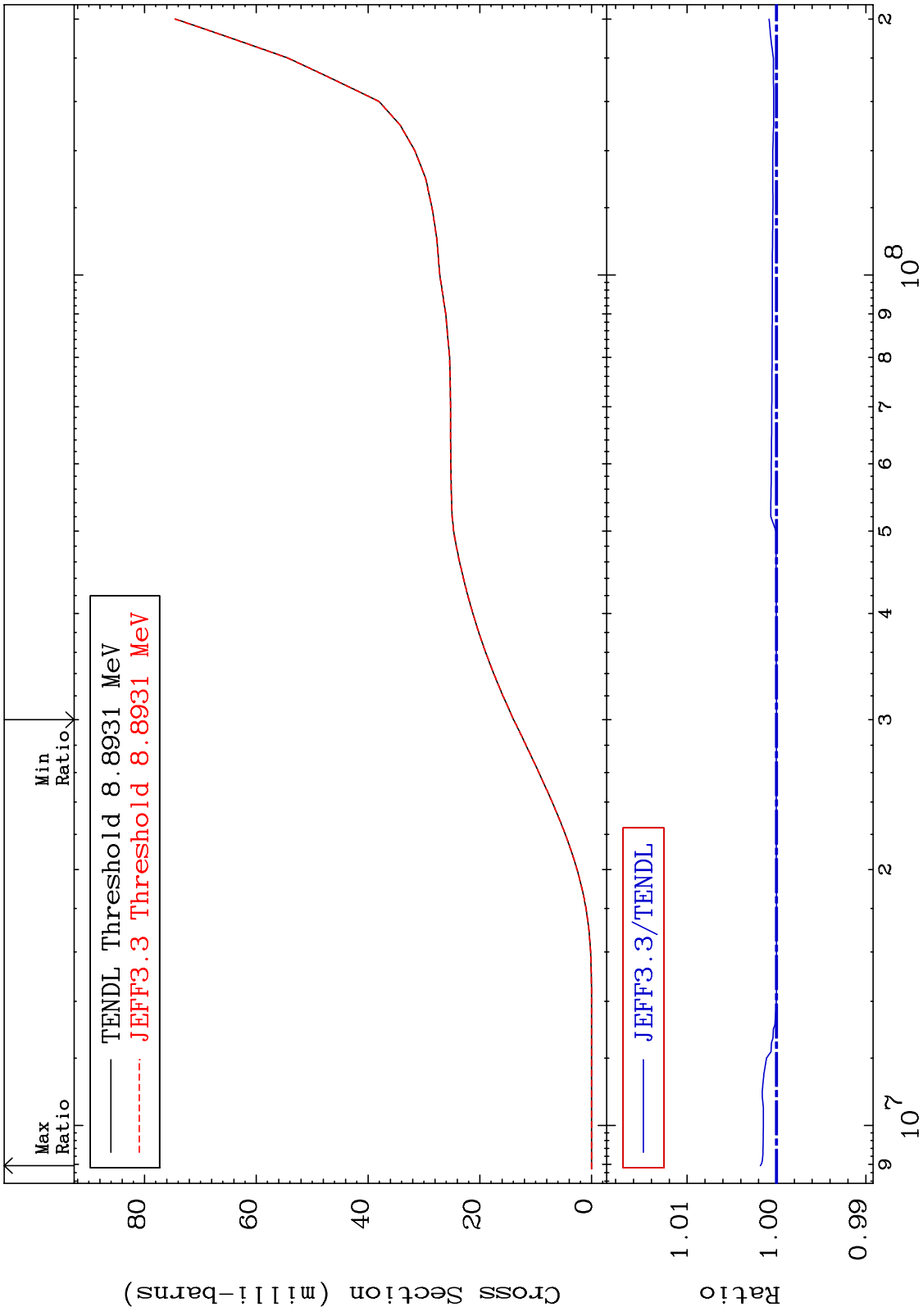
MAT 4425

Deuterium Production Cross Section

44-Ru-96
-0.073 To 0.115 %



MAT 4425 Tritium Production Cross Section 44-Ru-96 To 0.180 %

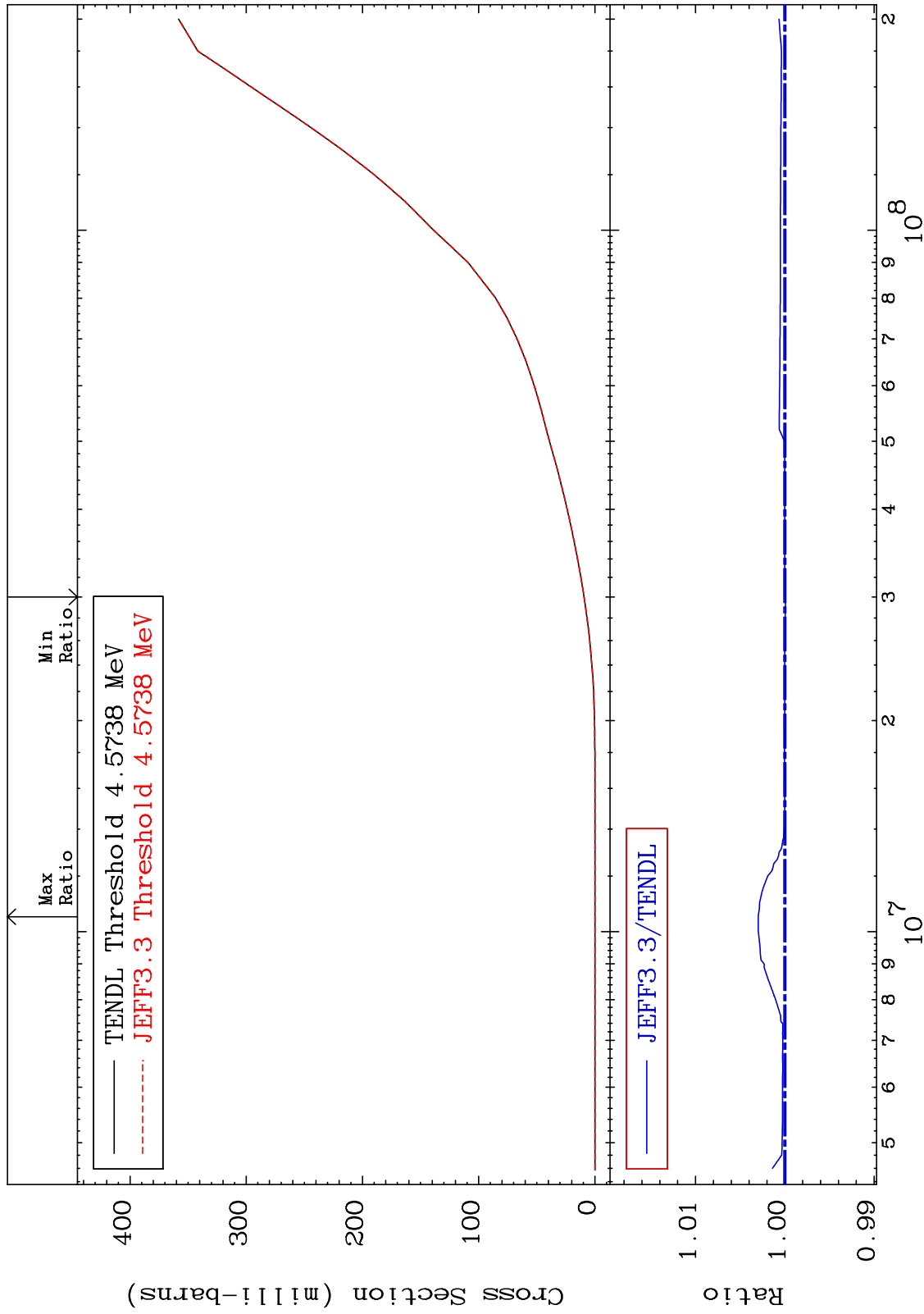


62 44-Ru-96

MAT 4425

He-3 Production
Cross Section

44-Ru-96
-0.008 To 0.299 %



63

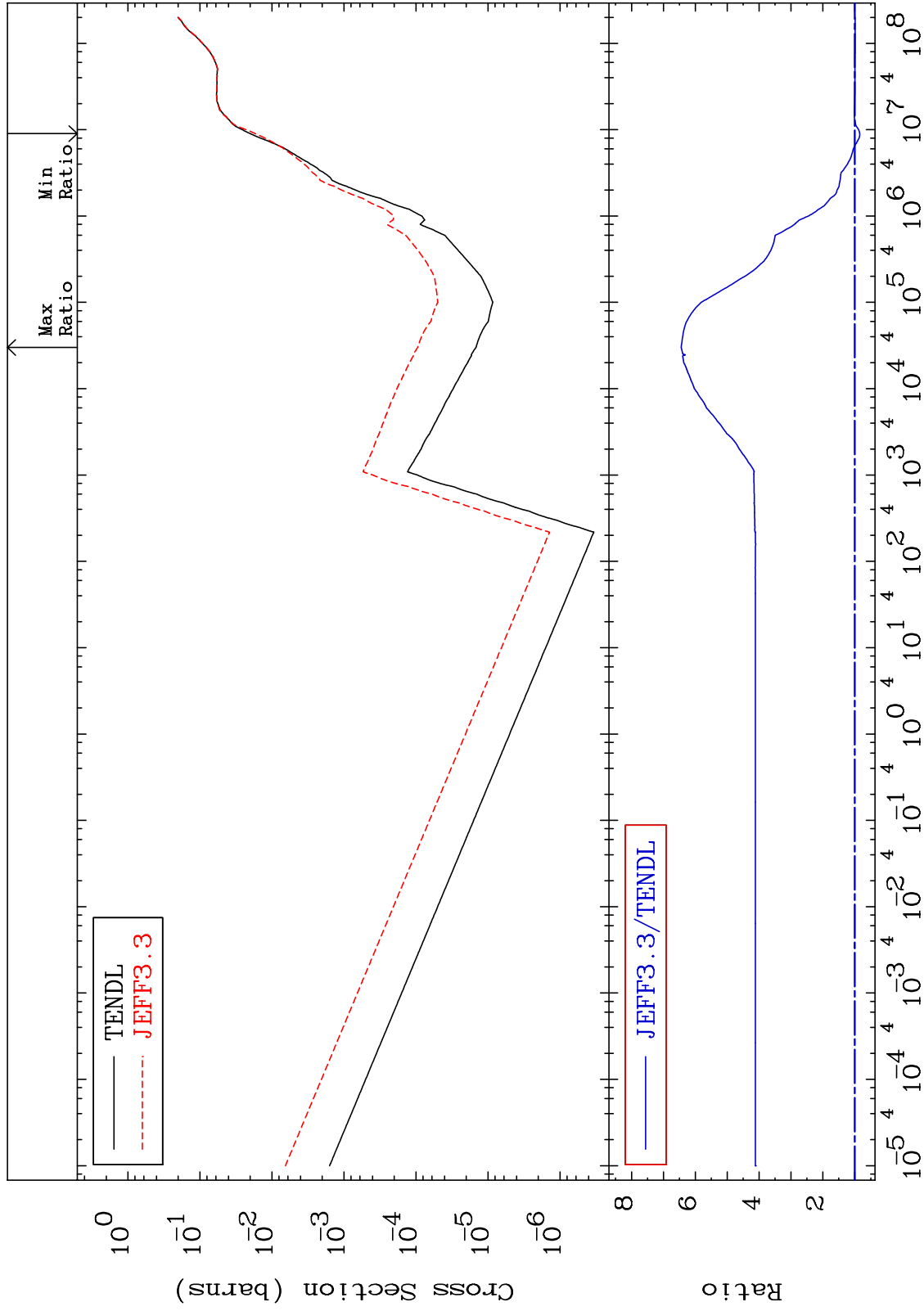
Incident Energy (eV)

44-Ru-96

MAT 4425

He-4 Production
Cross Section

44-Ru-96
-15.54 To 544.1 %



64

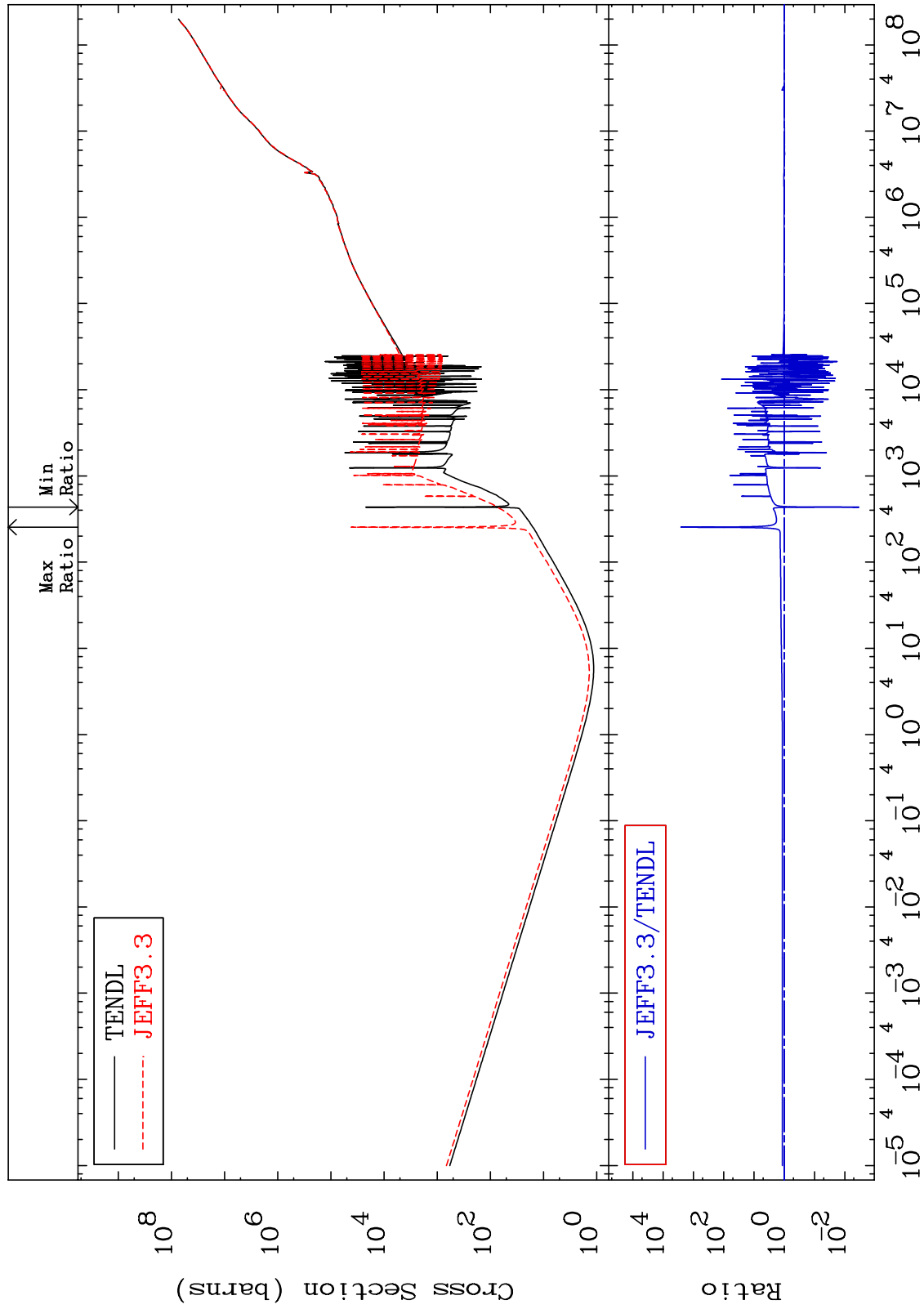
Incident Energy (eV)

44-Ru-96

MAT 4425

Kerma total (eV-barns)
Cross Section

44-Ru-96
-99.66 To 9999. %



65

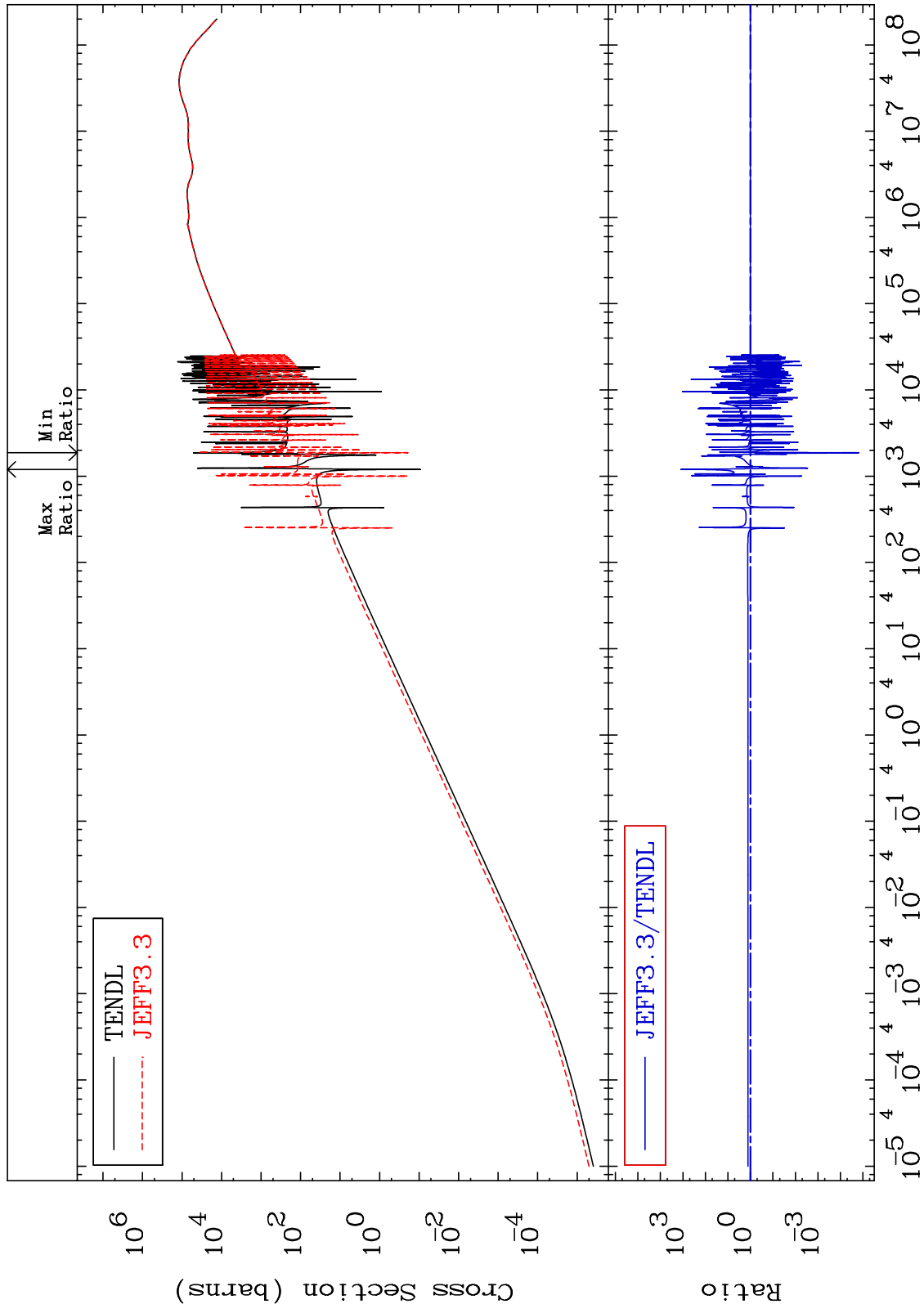
Incident Energy (eV)

44-Ru-96

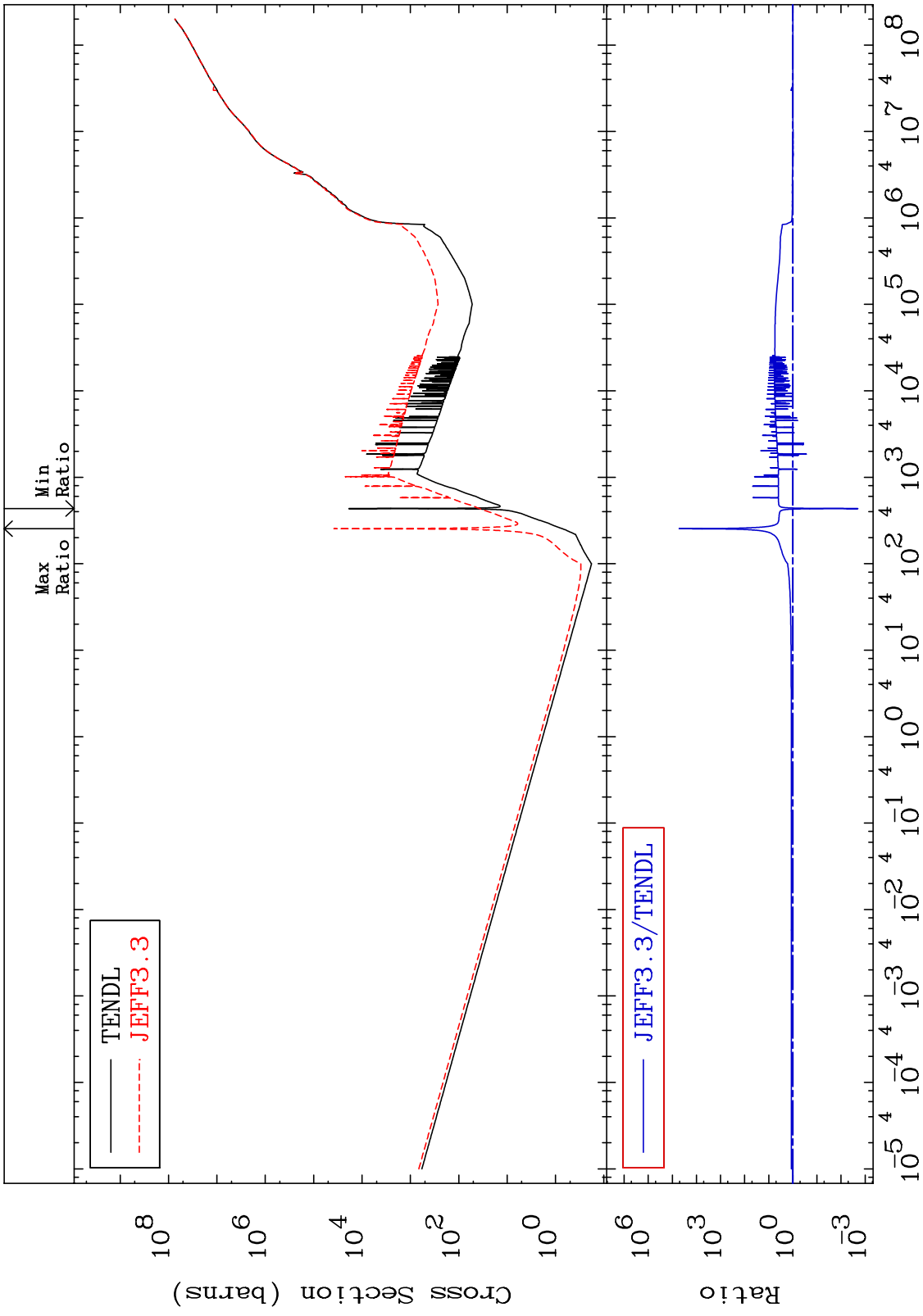
MAT 4425

Kerma elastic
Cross Section

44-Ru-96
-100.0 To 9999. %



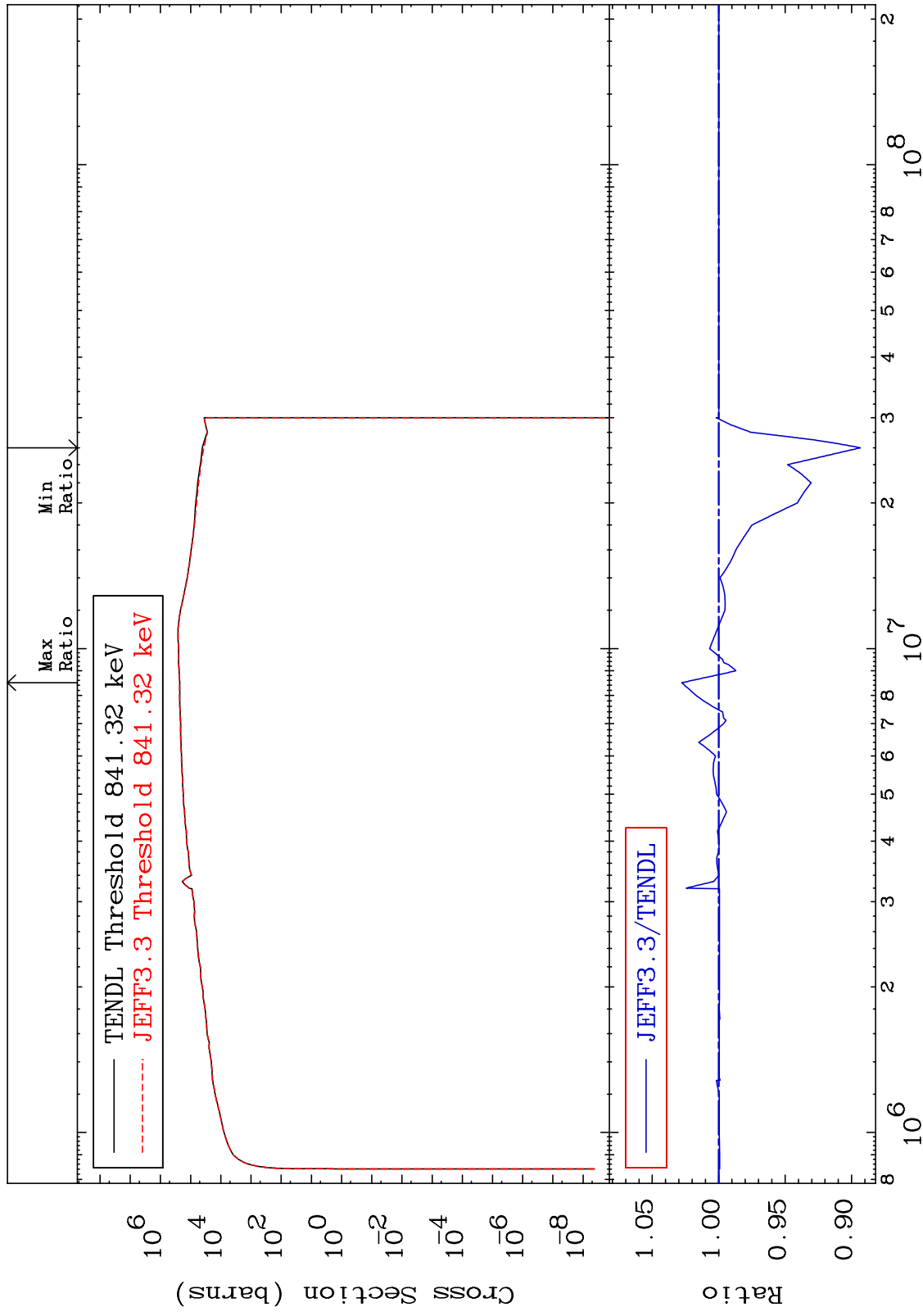
MAT 4425 Kerma non-elastic (all but mt2) 44-Ru-96
 Cross Section -99.80 To 9999. %



MAT 4425

Kerma inelastic (mt51-91)
Cross Section

44-Ru-96
-10.66 To 2.783 %



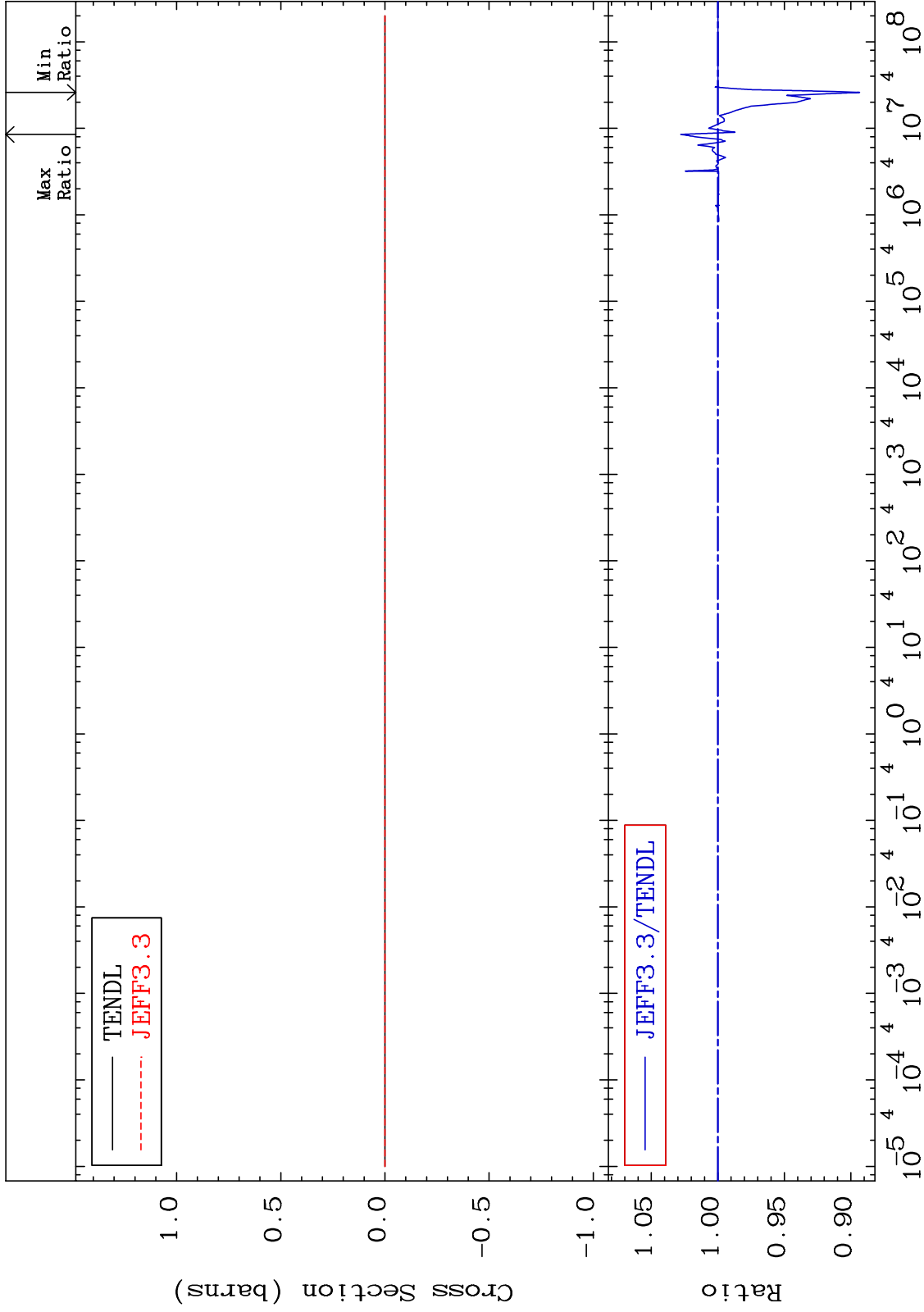
68

44-Ru-96

MAT 4425

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

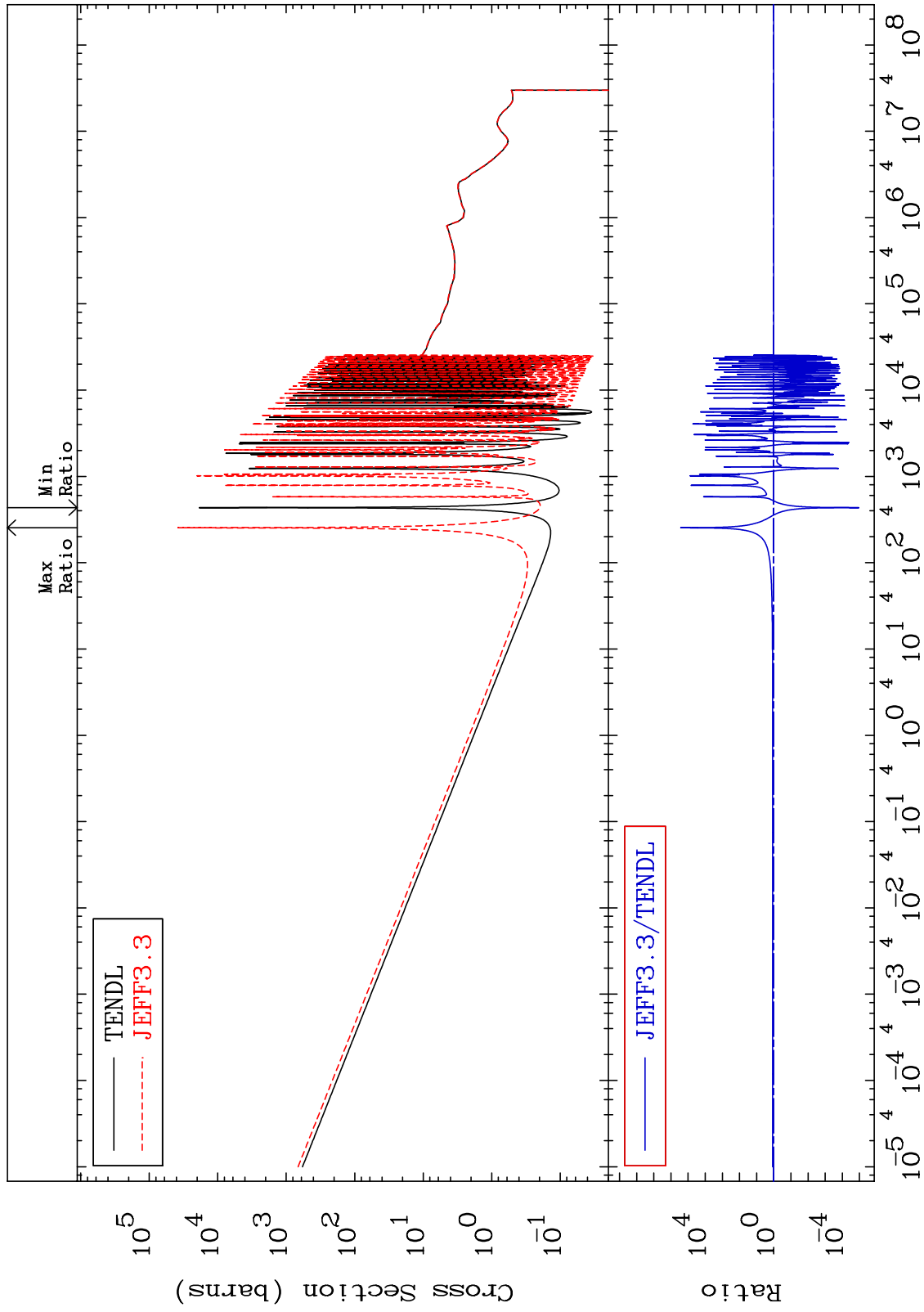
44-Ru-96
-10.66 To 2.783 %



MAT 4425

Kerma capture (mt102)
Cross Section

44-Ru-96
-100.0 To 9999. %

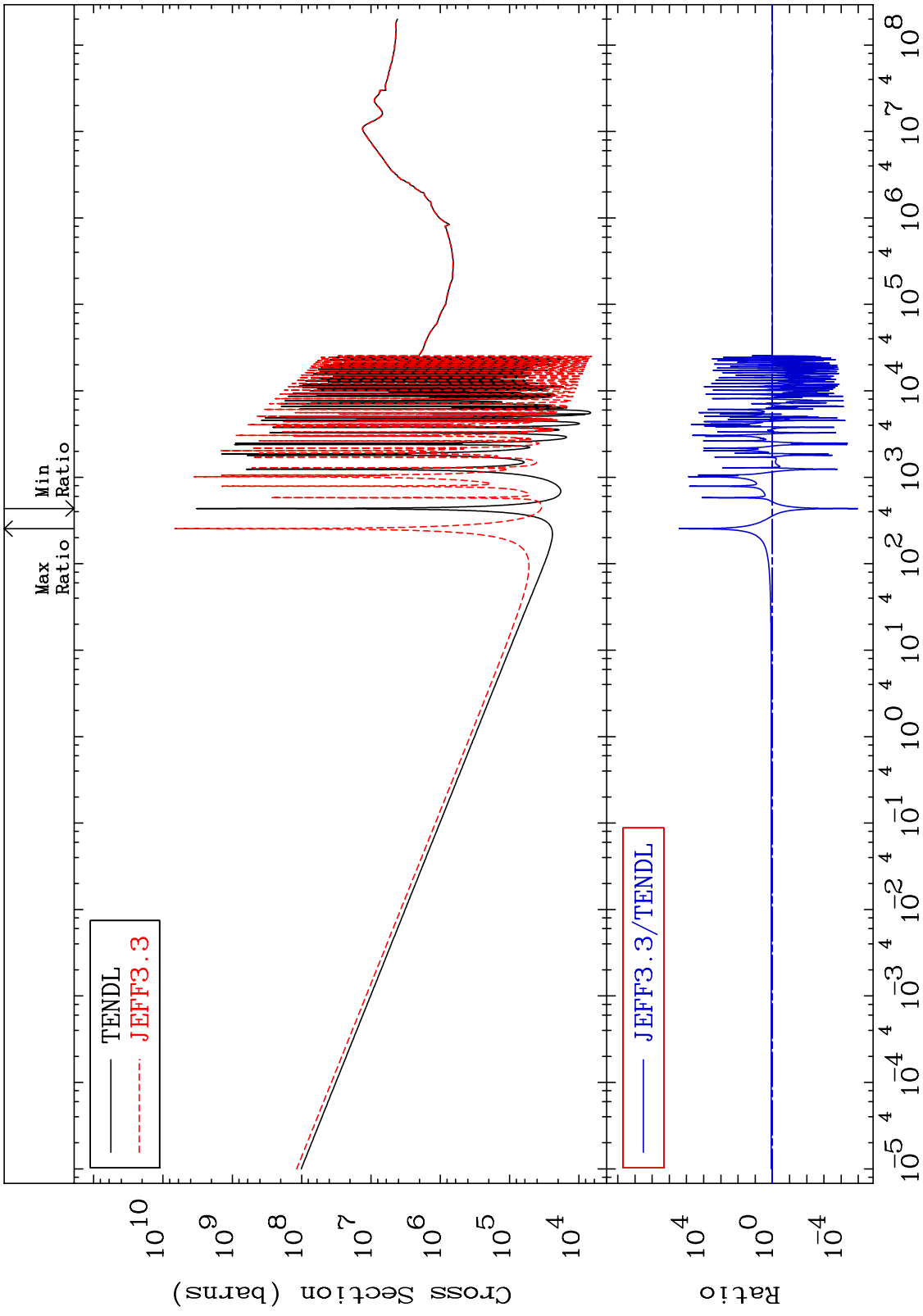


70

Incident Energy (eV)

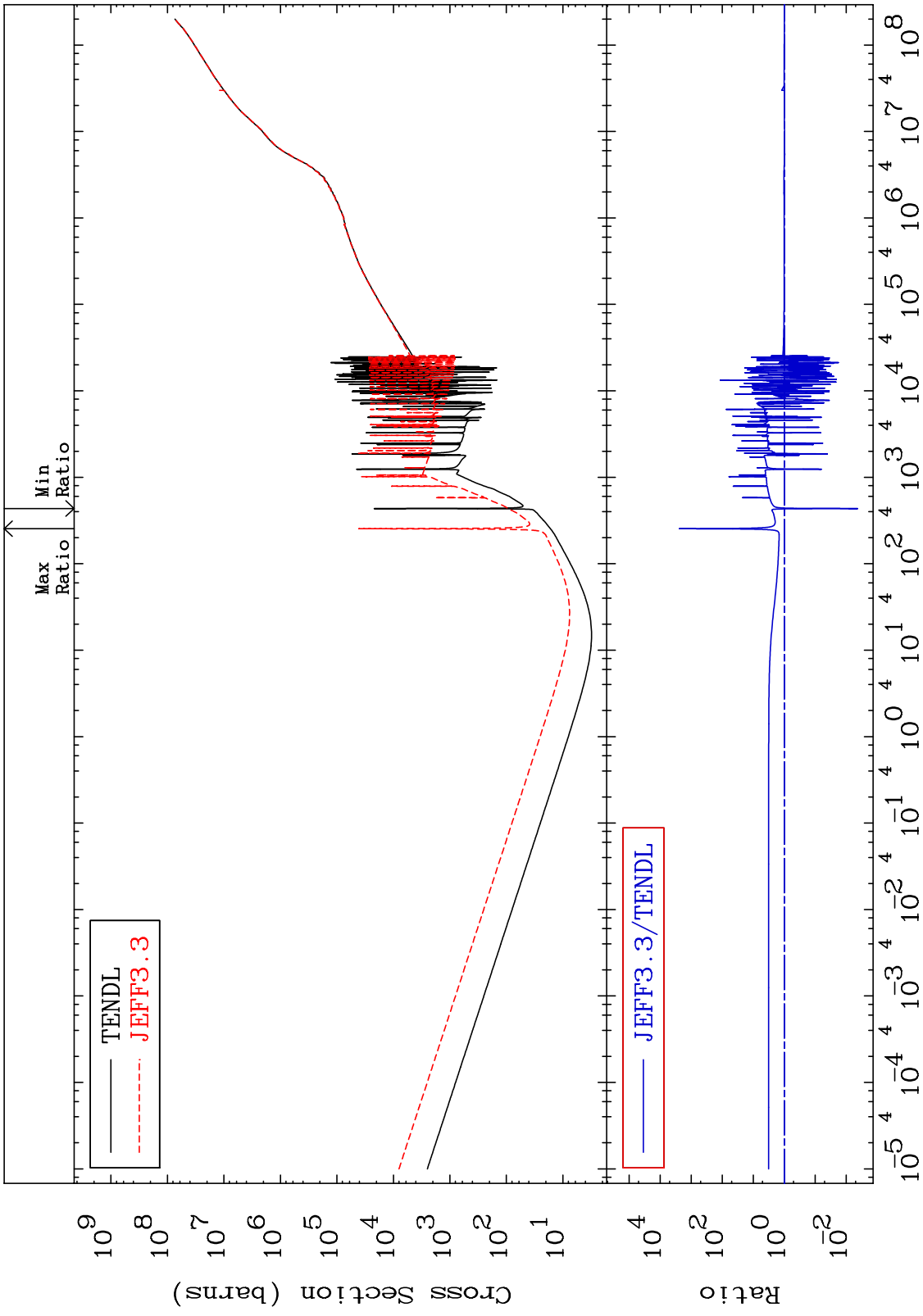
44-Ru-96

MAT 4425 44-Ru-96
Total photon (eV-barns) Cross Section -100.0 To 9999. %



71 44-Ru-96

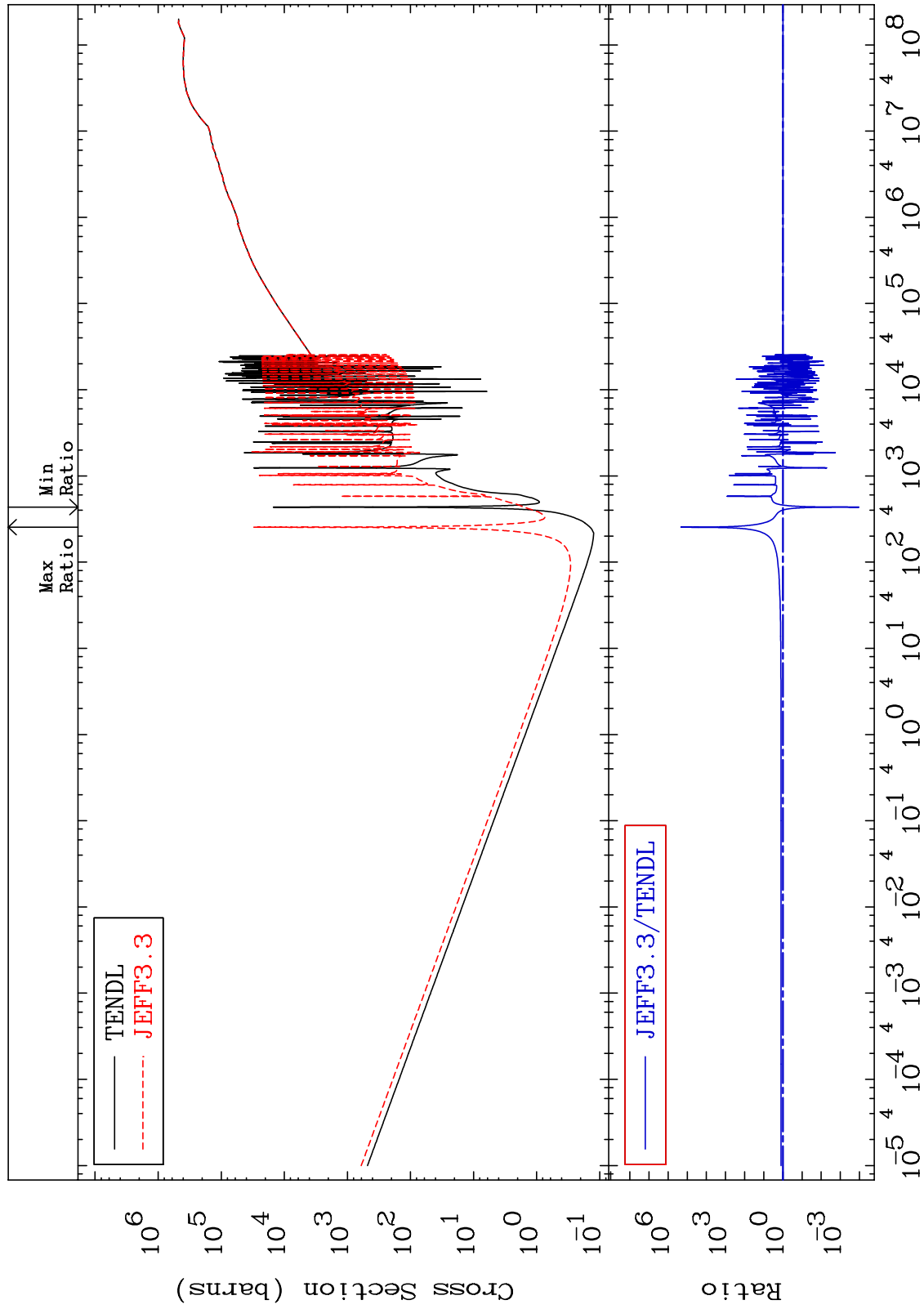
MAT 4425 Total kinematic kerma (high limit) 44-Ru-96
 Cross Section -99.58 To 9999. %



MAT 4425

Dpa total (eV-barns)
Cross Section

44-Ru-96
-99.99 To 9999. %



73

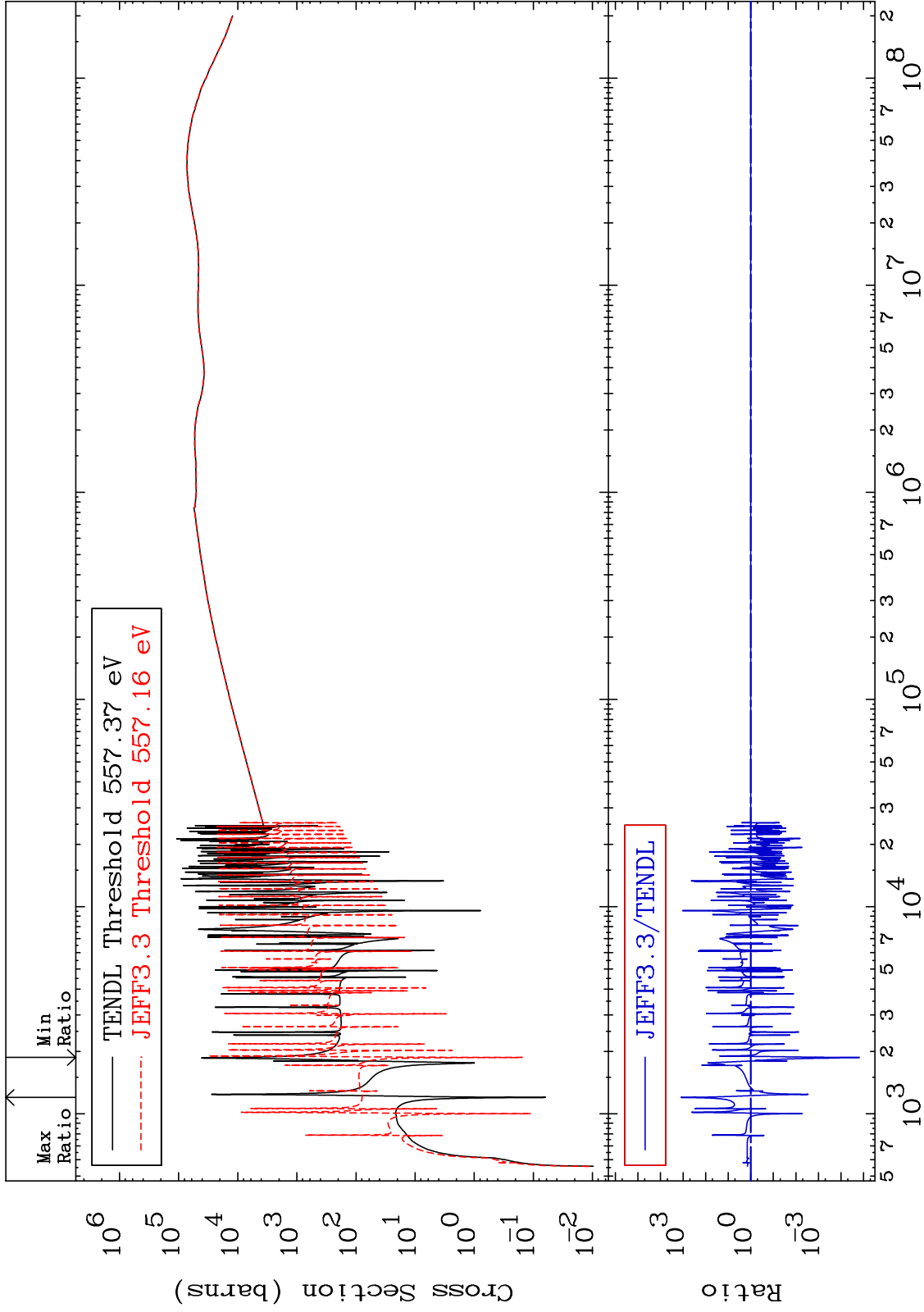
Incident Energy (eV)

44-Ru-96

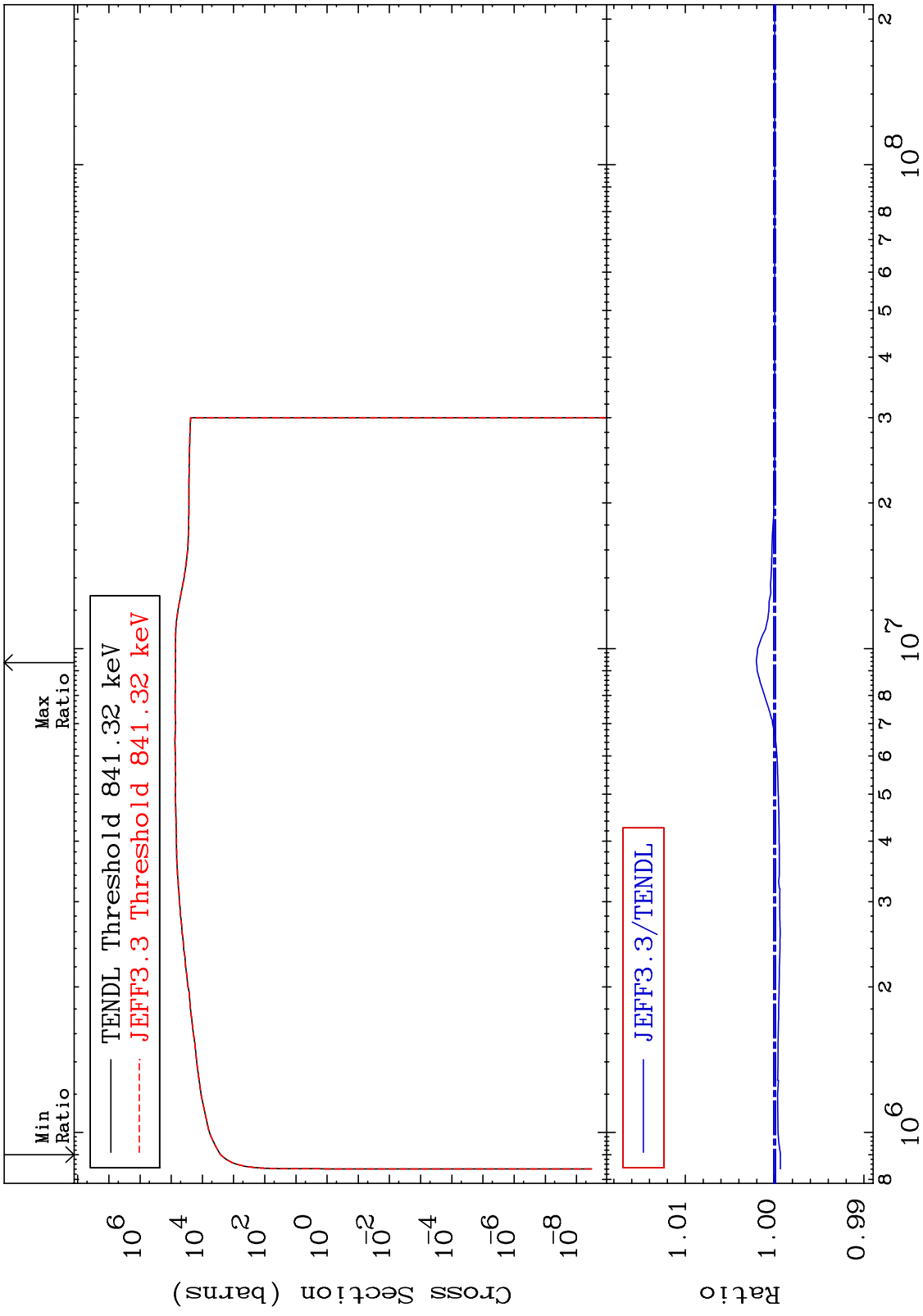
MAT 4425

Dpa elastic (mt2)
Cross Section

44-Ru-96
-100.0 To 9999. %



MAT 4425 Dpa inelastic (mt51-91) 44-Ru-96
Cross Section -0.065 To 0.204 %

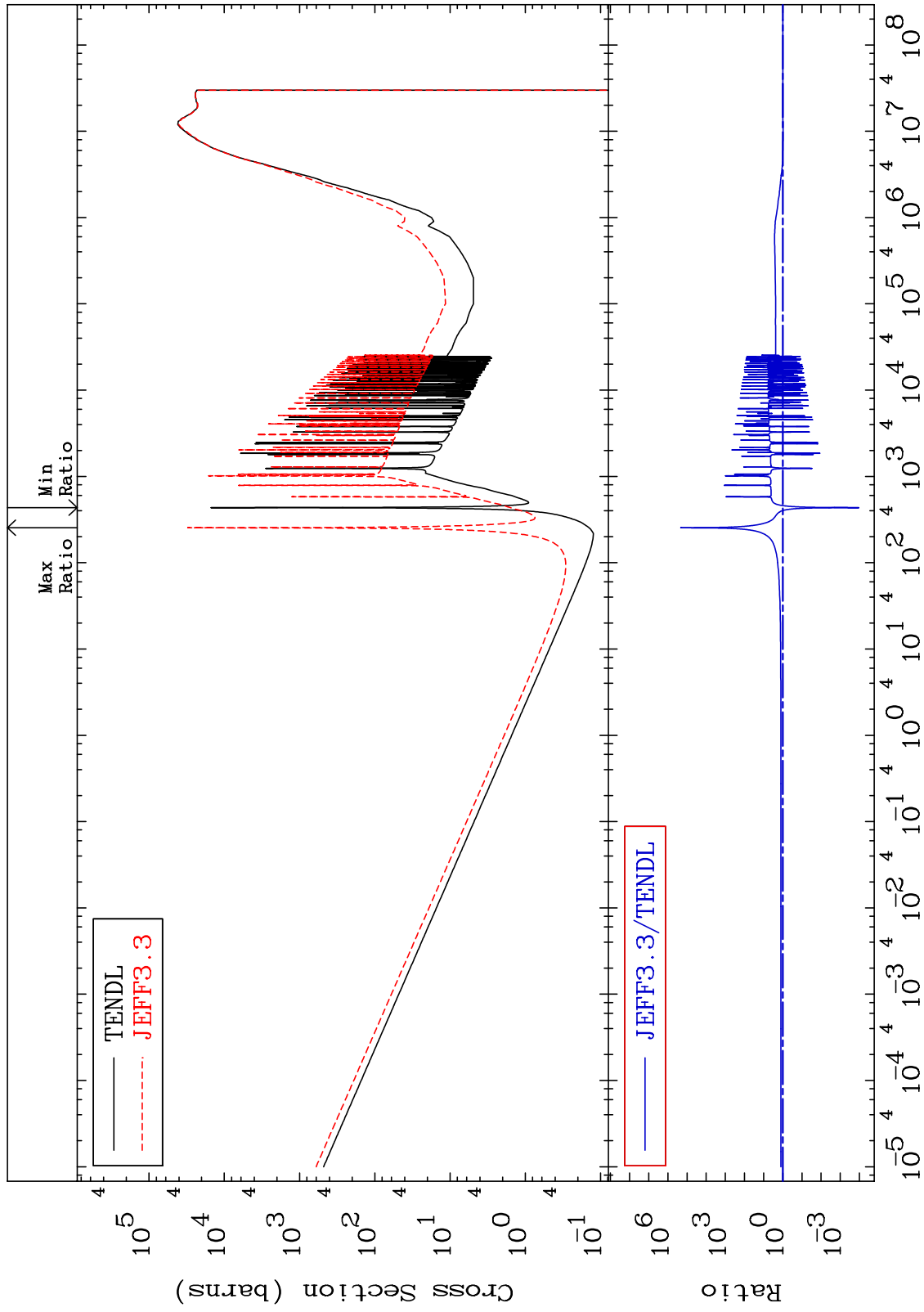


75 44-Ru-96

MAT 4425

Dpa disappearance (mt102 -120)
Cross Section

44-Ru-96
-99.99 To 9999. %

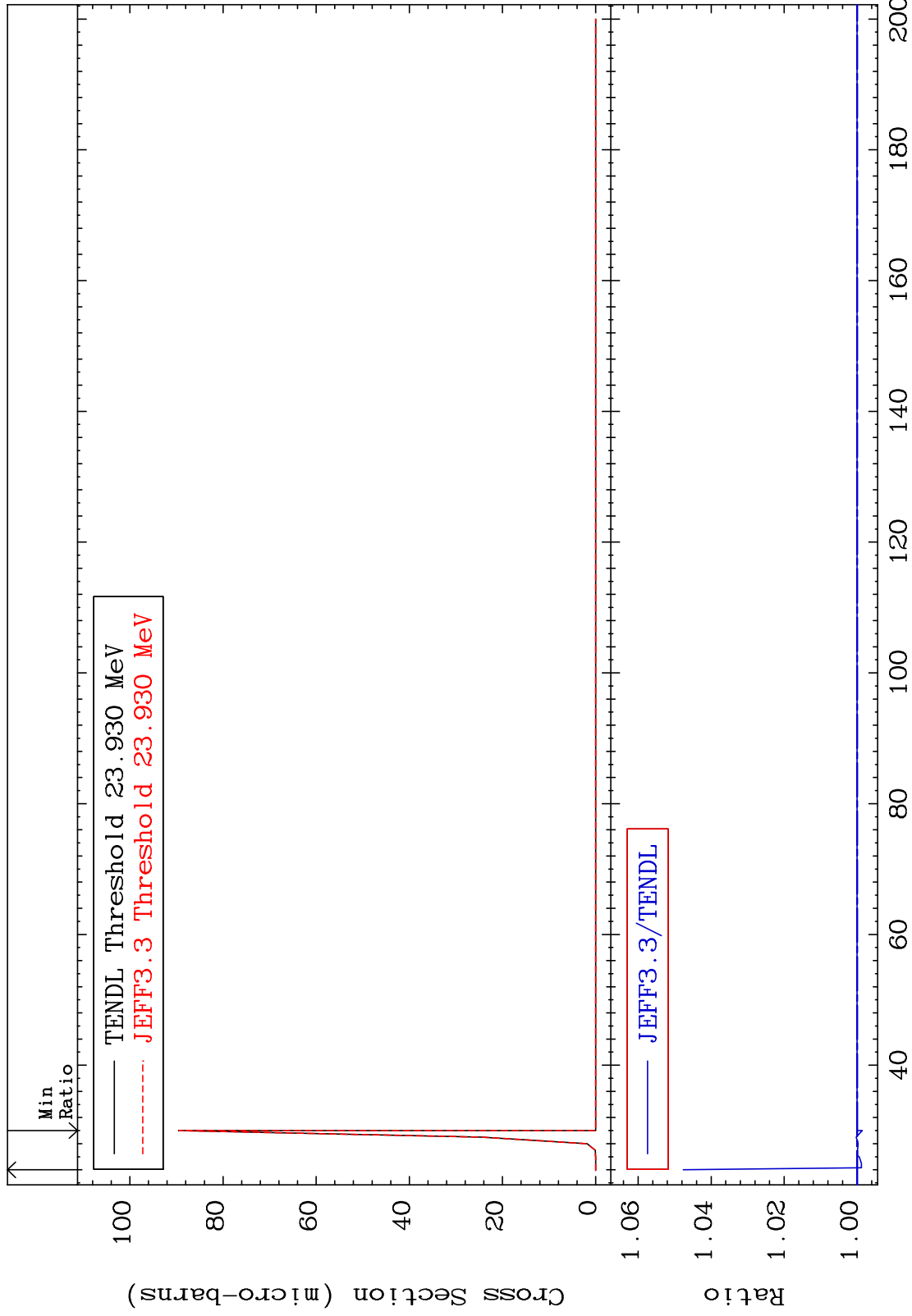


MAT 4425

(n,2n) d:43-Tc-93g

44-Ru-96

Radionuclide Production Cross Section -0.142 To 4.763 %

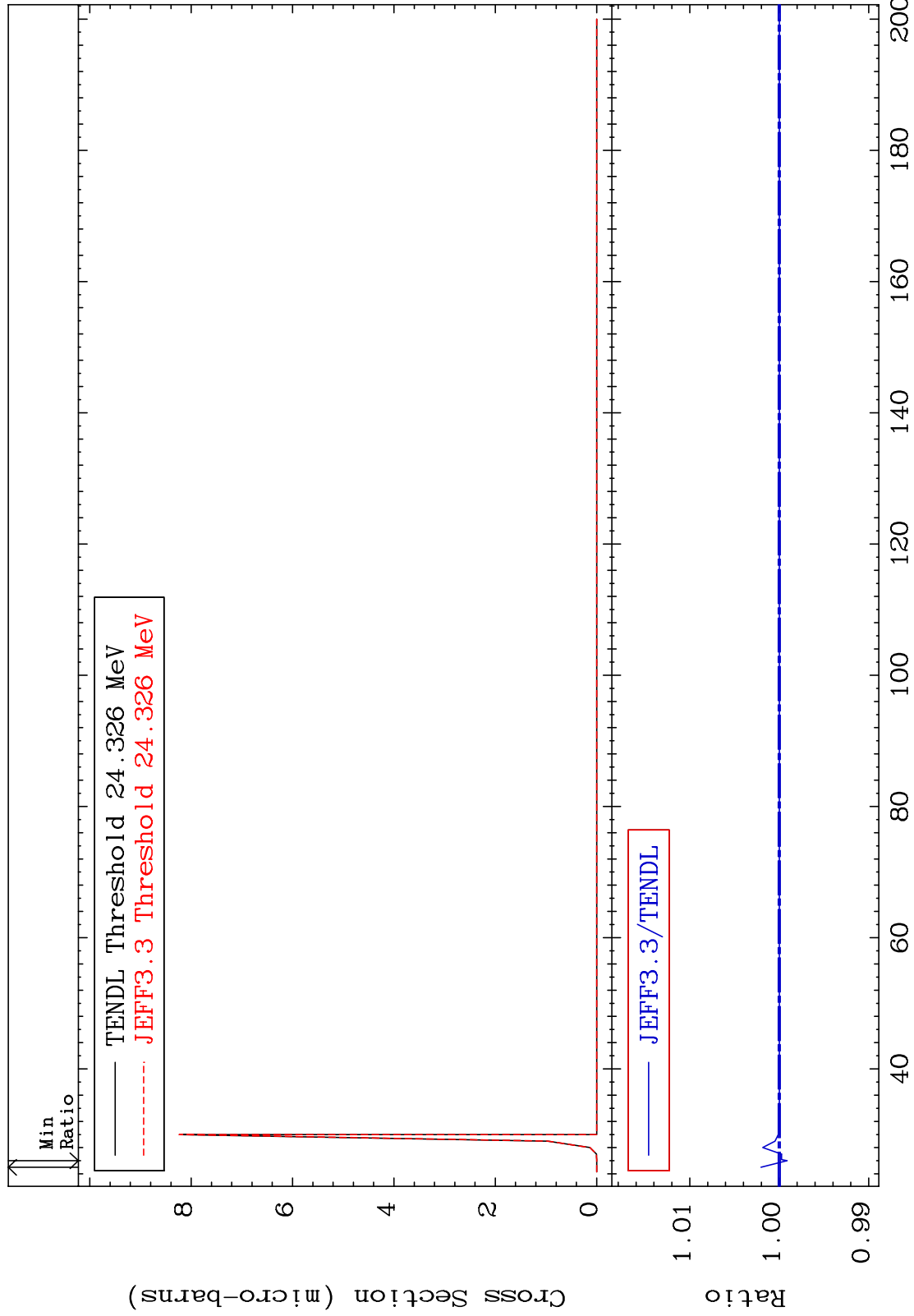


MAT 4425

(n,2n) d:43-Tc-93m1

44-Ru-96

Radionuclide Production Cross Section -0.086 To 0.205 %

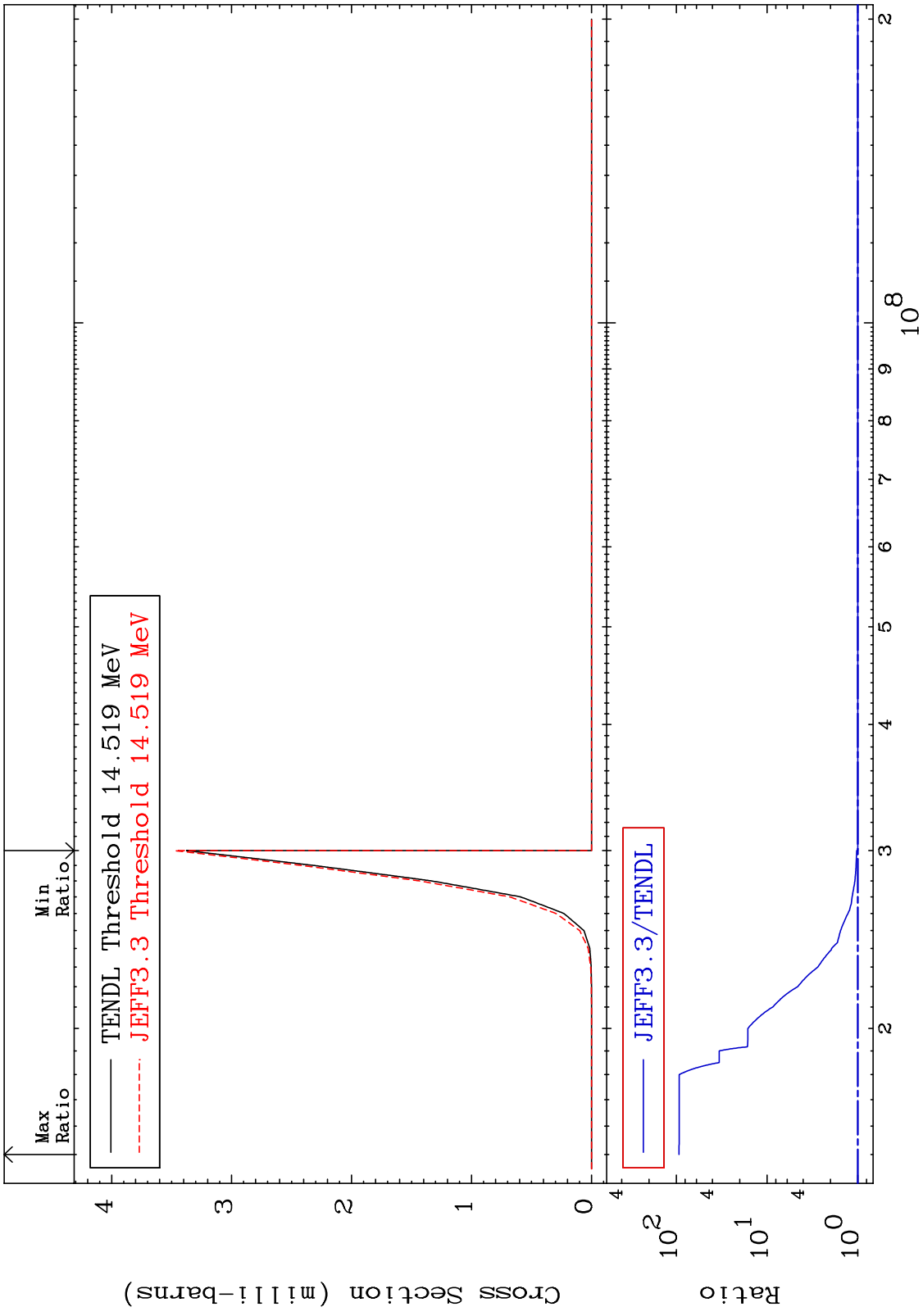


78

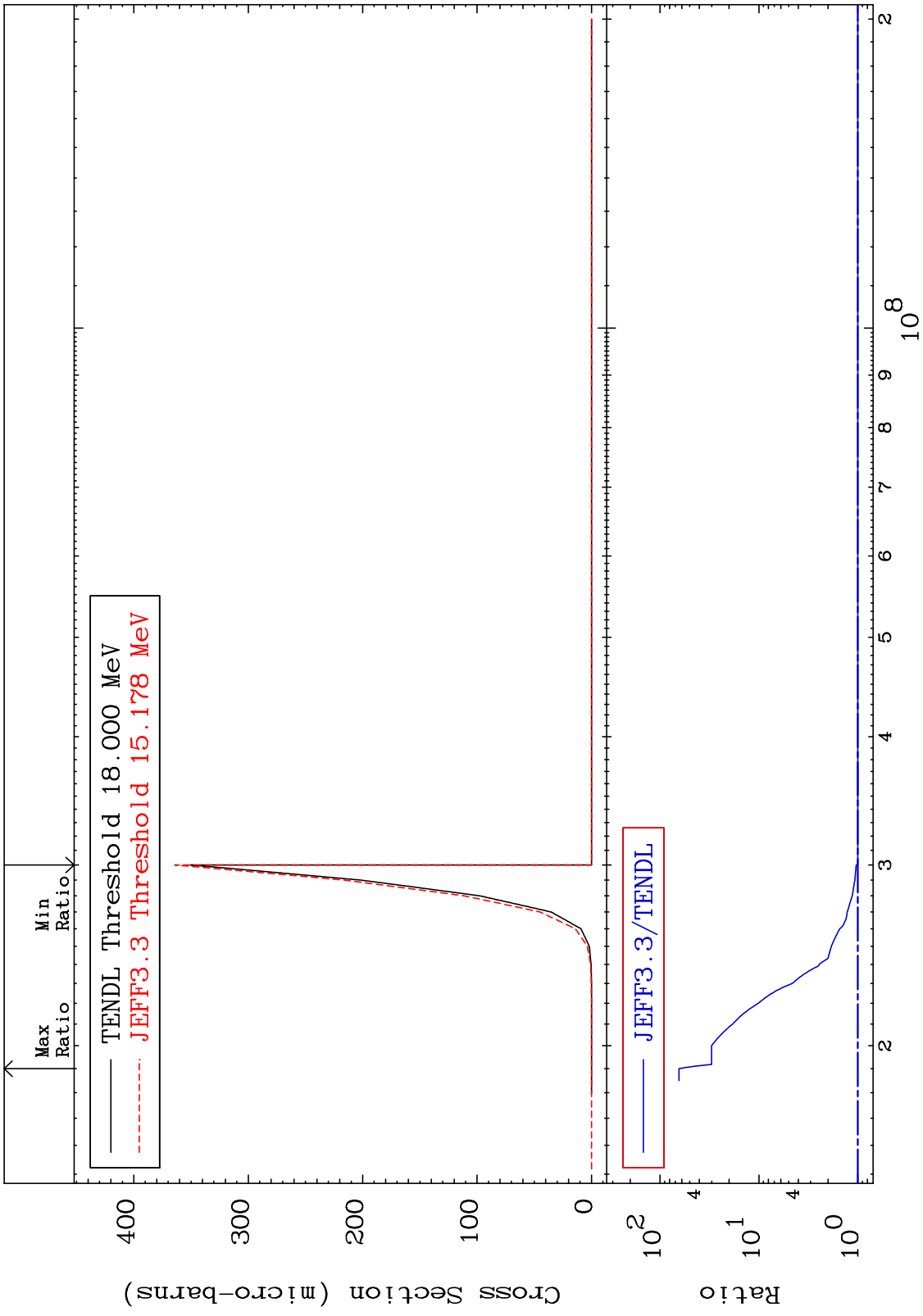
Incident Energy (MeV)

44-Ru-96

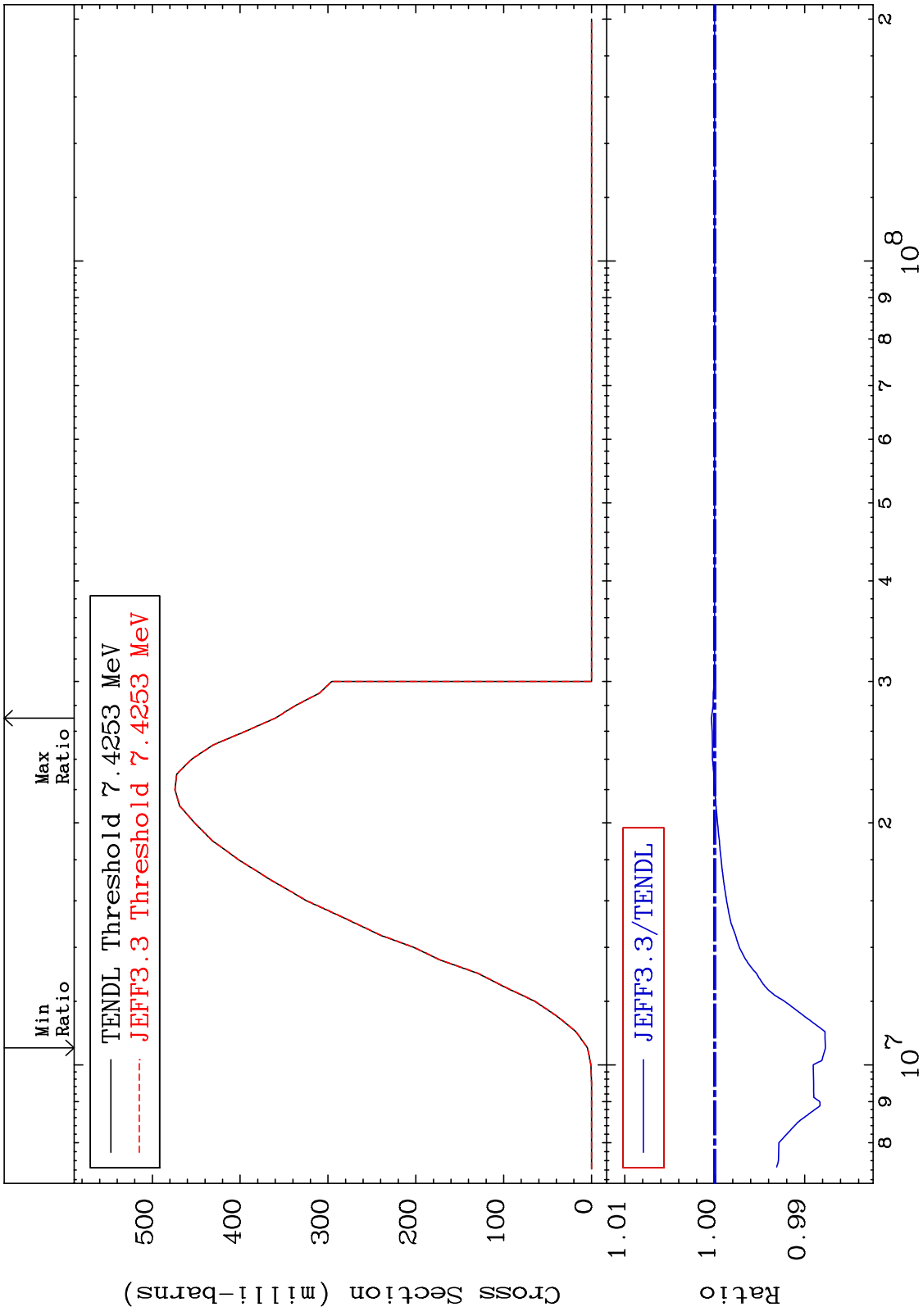
MAT 4425 (n,2n) α : 42-Mo-91g 44-Ru-96
 Radionuclide Production Cross Section 0.000 To 9224. %



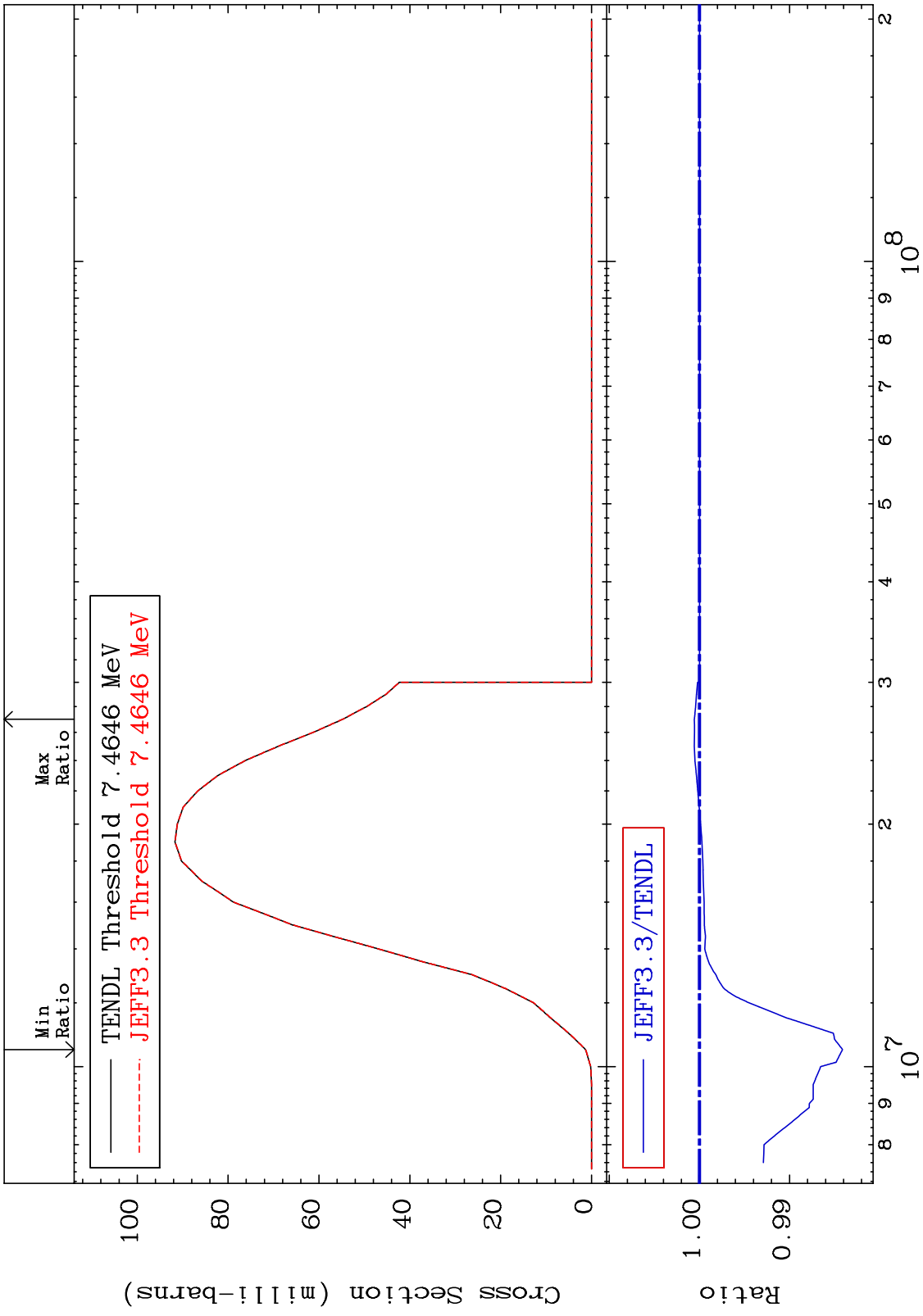
MAT 4425 (n,2n) α :42-Mo-91m1 44-Ru-96
 Radionuclide Production Cross Section 0.000 To 6311. %

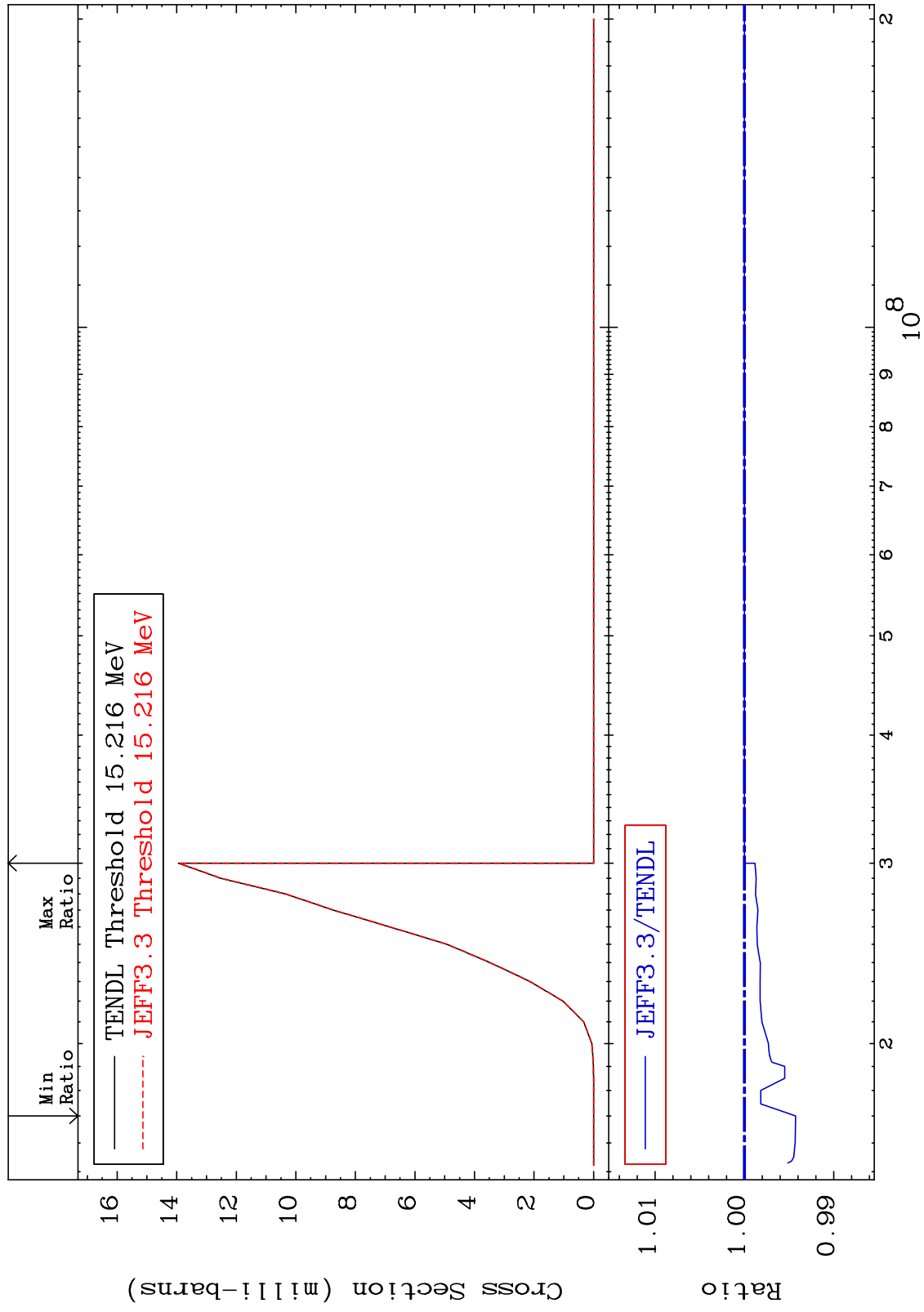


MAT 4425 (n, n') p:43-Tc-95g 44-Ru-96
 Radionuclide Production Cross Section -1.232 To 0.037 %

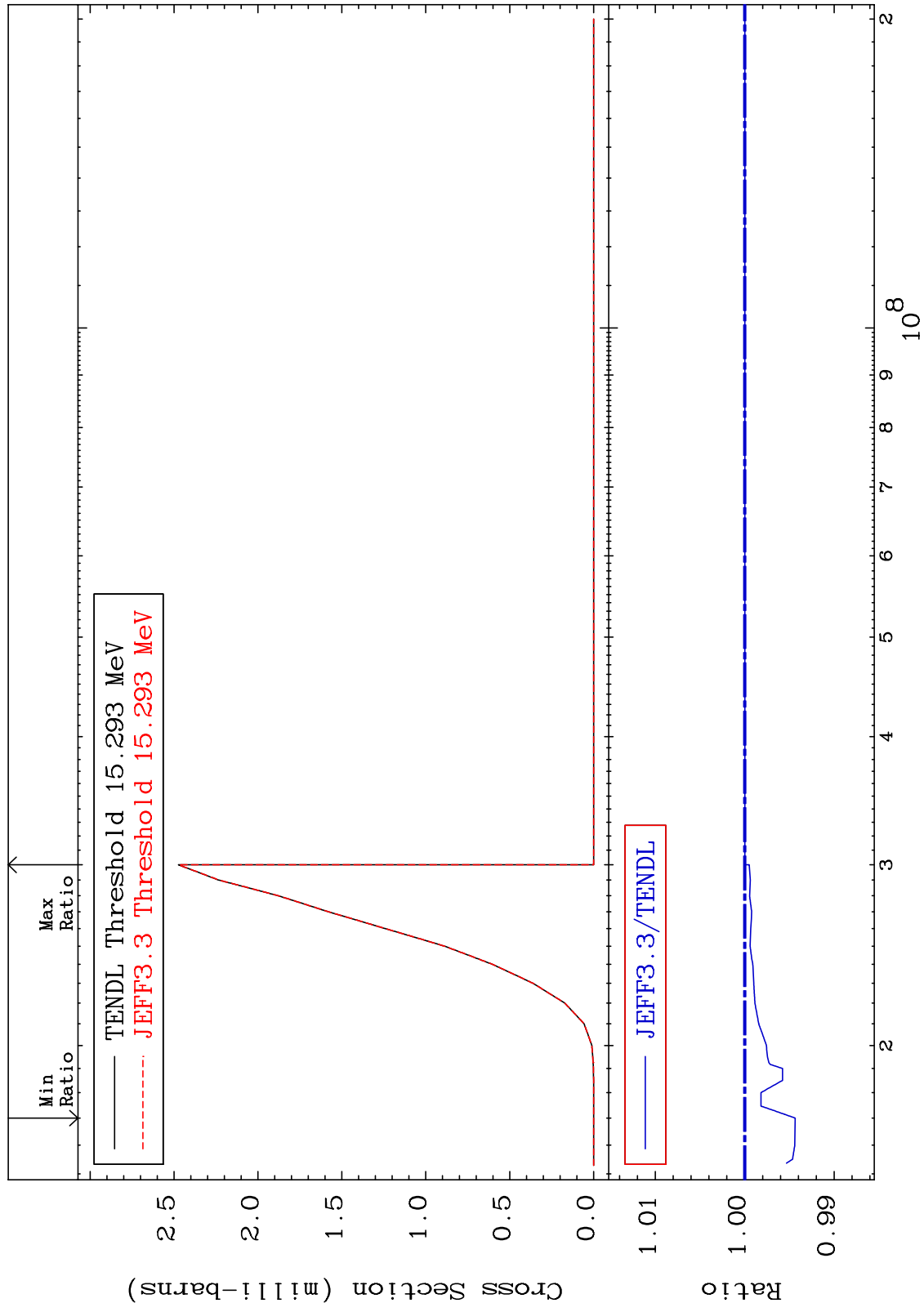


MAT 4425 (n, n') p:43-Tc-95m1 44-Ru-96
 Radionuclide Production Cross Section -1.589 To 0.056 %

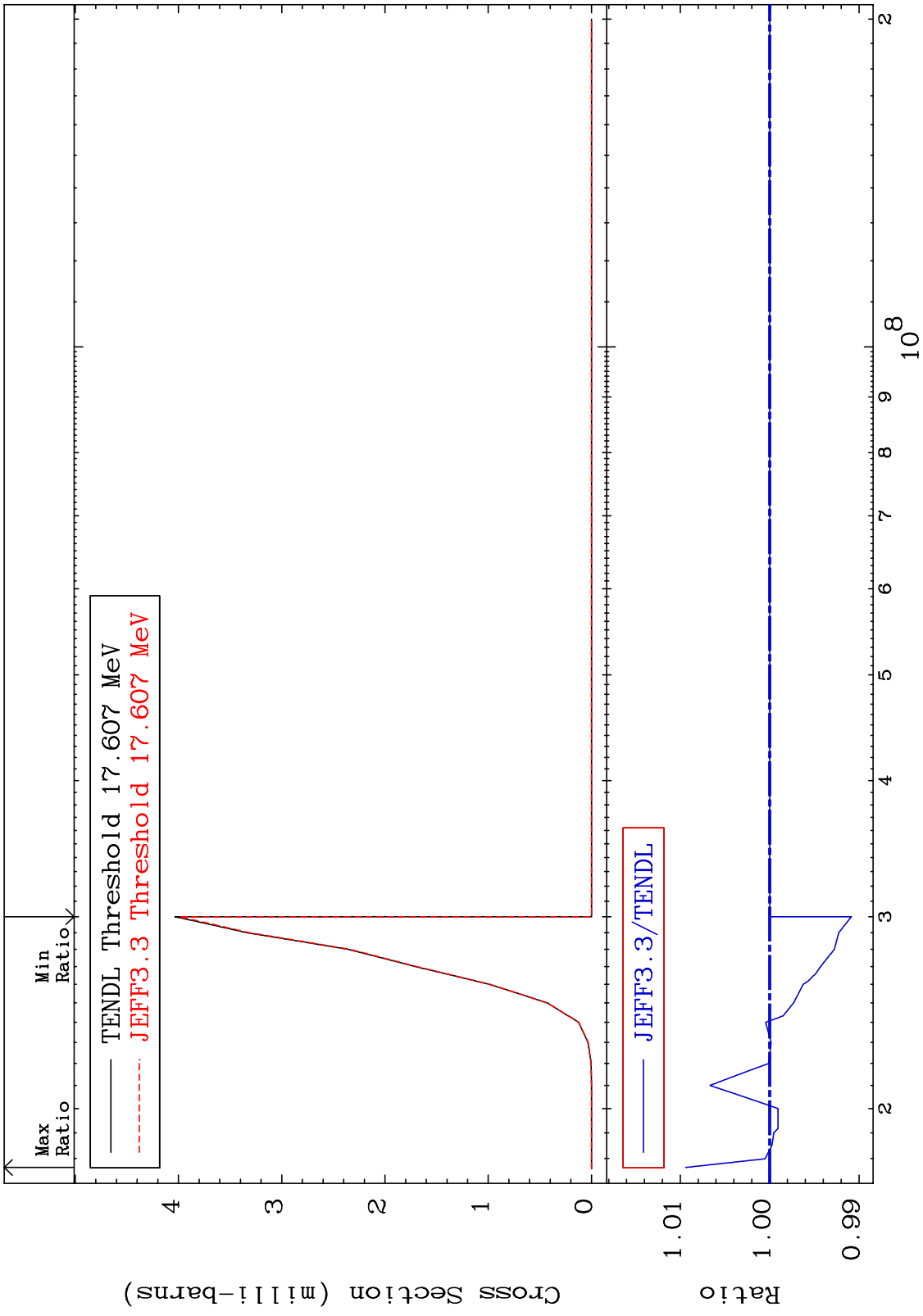




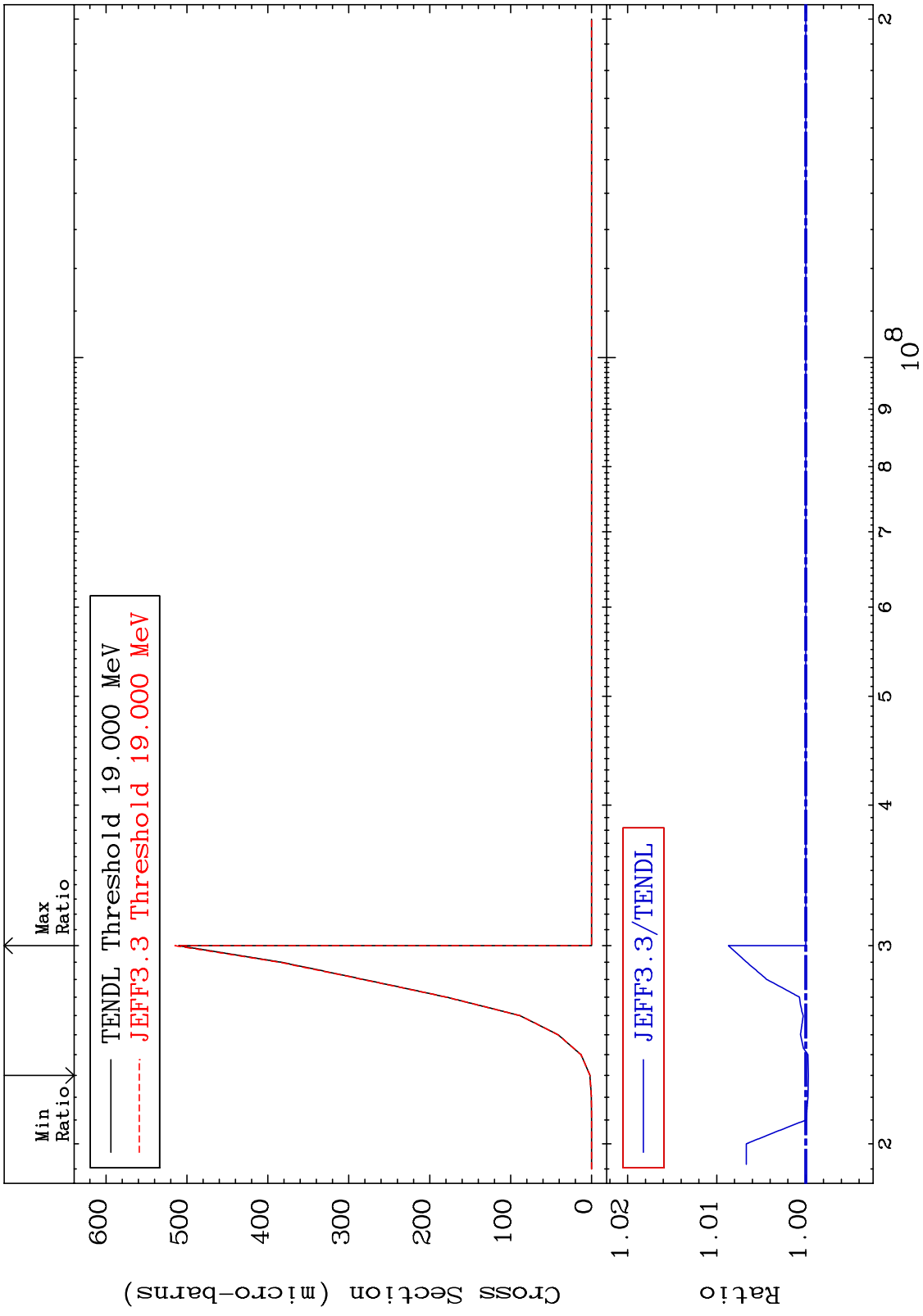
MAT 4425 (n, n') d:43-Tc-94m1 44-Ru-96
Radionuclide Production Cross Section -0.5665 To 0.000 %



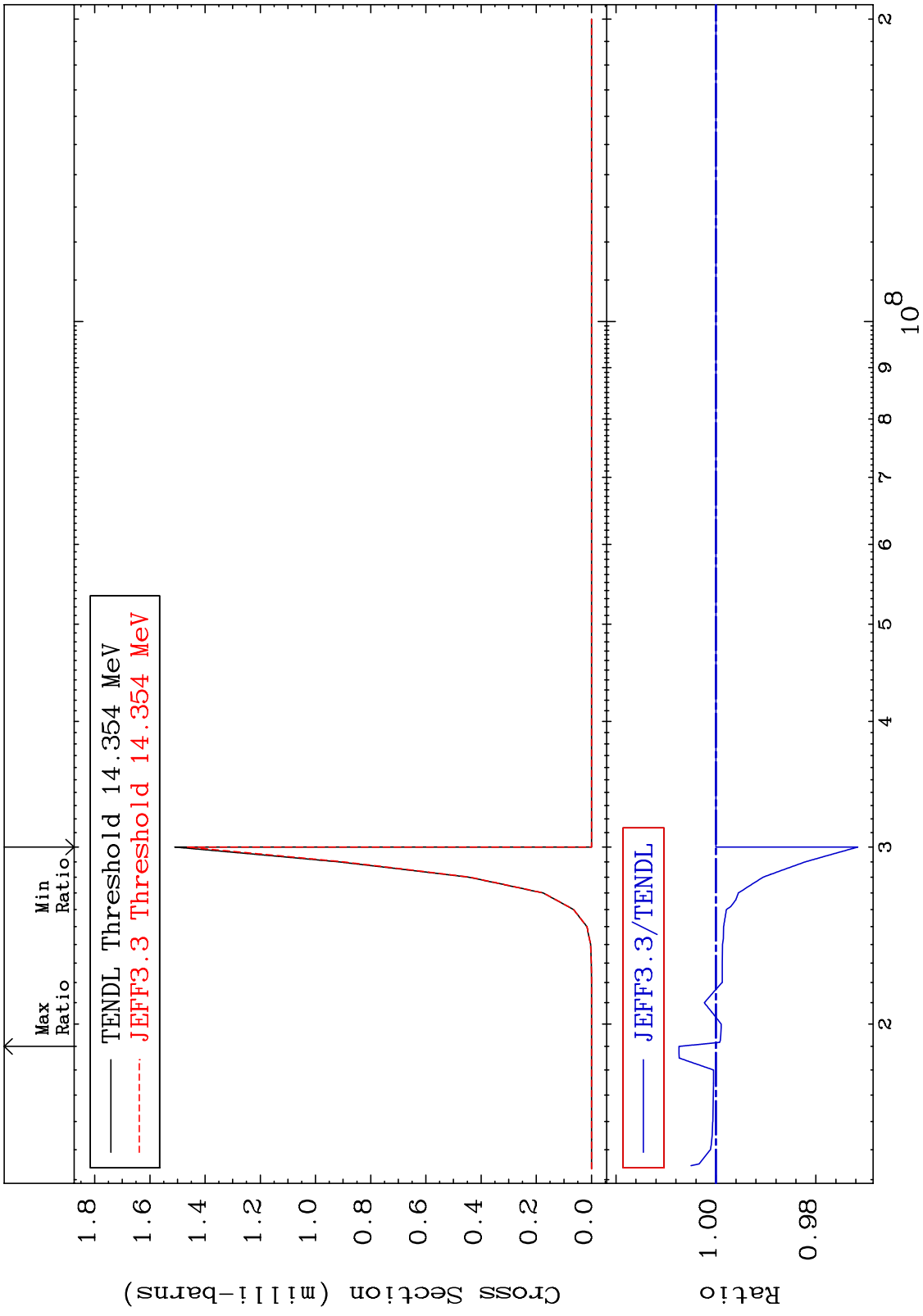
MAT 4425 (n, n') t: 43-Tc-93g 44-Ru-96
 Radionuclide Production Cross Section -0.914 To 0.941 %



MAT 4425 (n,n') t:43-Tc-93m1 44-Ru-96
 Radionuclide Production Cross Section -0.030 To 0.868 %



MAT 4425 (n, n') He-3: 42-Mo-93g 44-Ru-96
 Radionuclide Production Cross Section -2.839 To 0.738 %

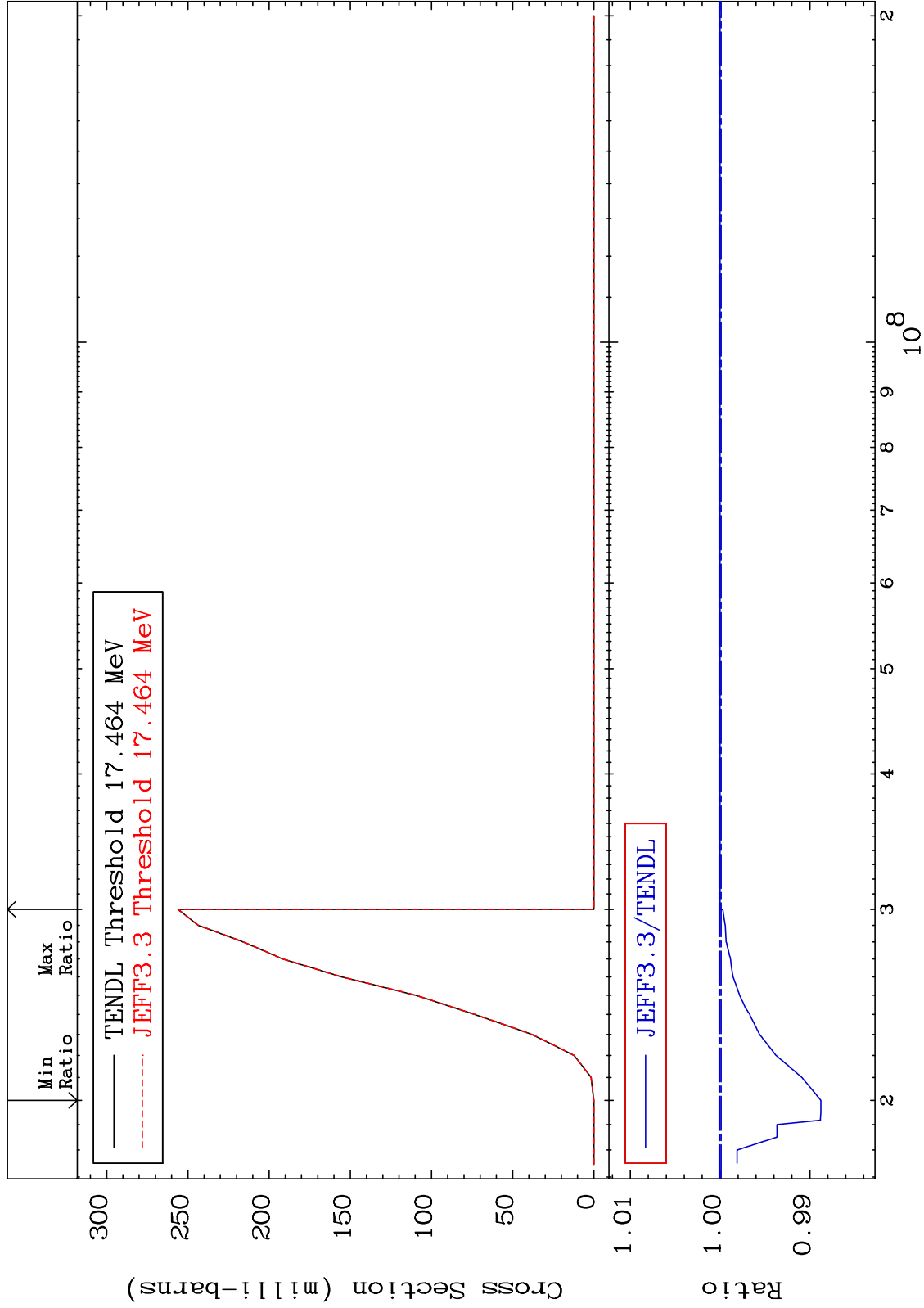


MAT 4425

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

44-Ru-96

Radionuclide Production Cross Section -1.123 To 0.000 %

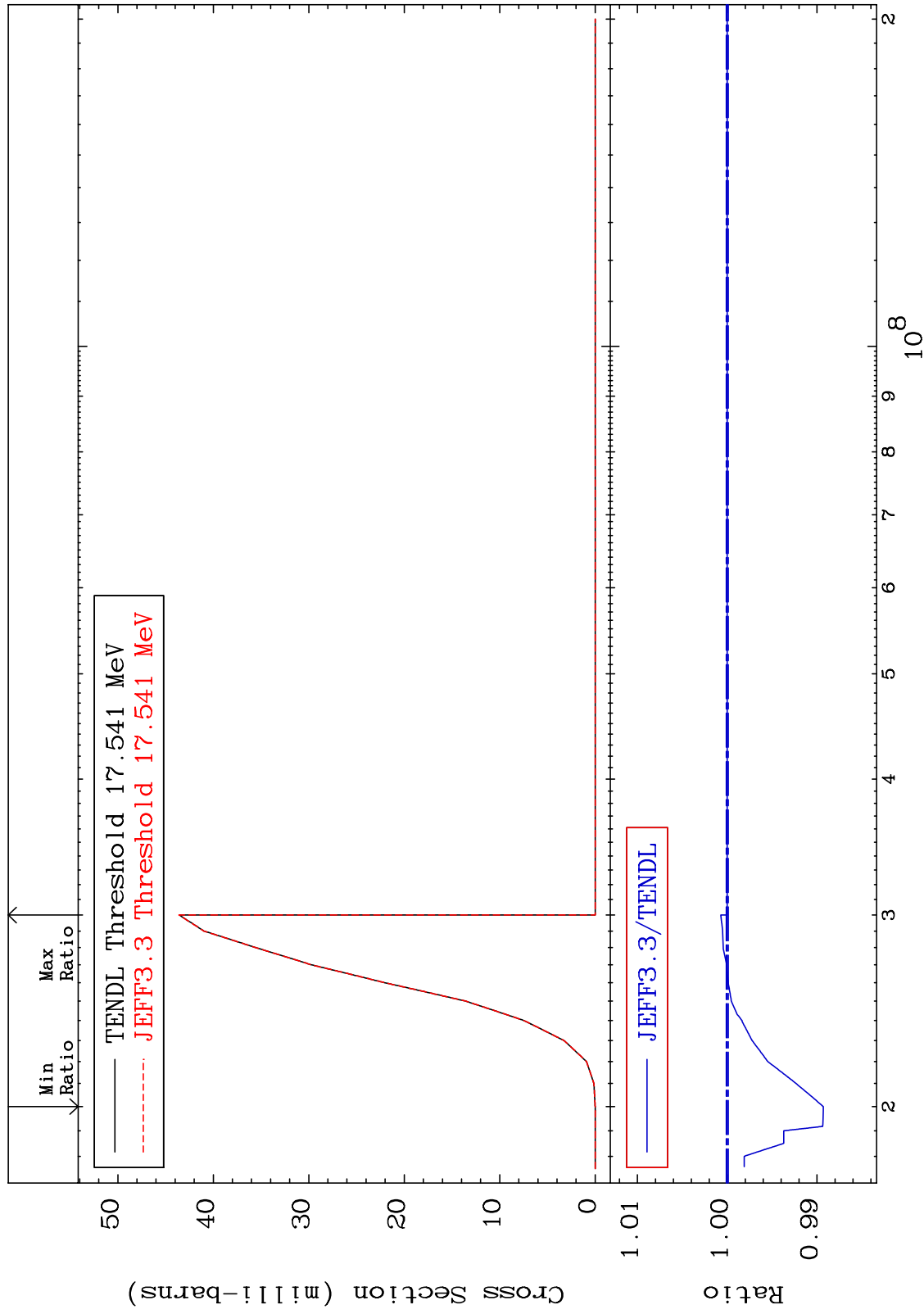


MAT 4425

(n,2n) p:43-Tc-94m1

44-Ru-96

Radionuclide Production Cross Section -1.069 To 0.073 %

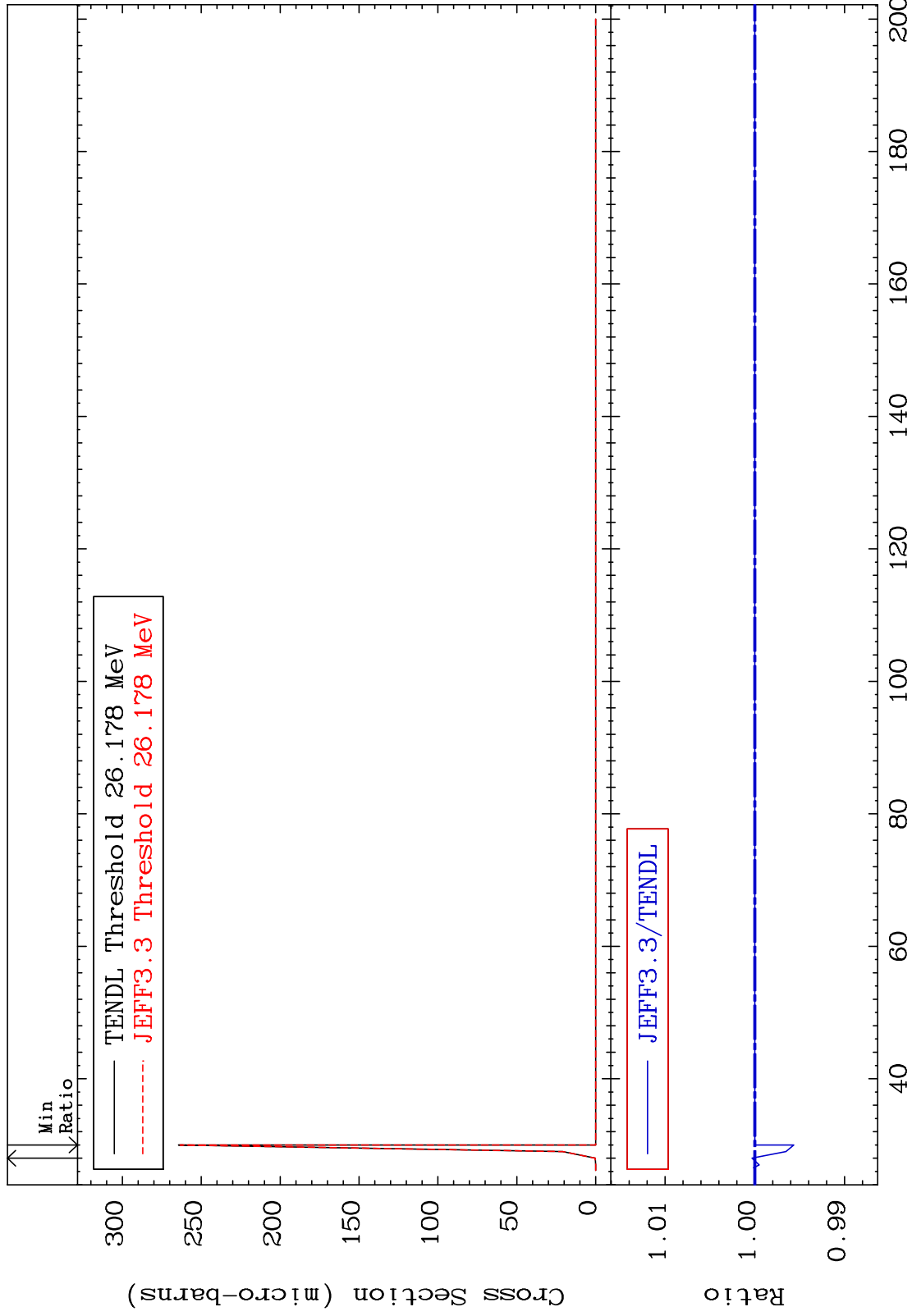


MAT 4425

(n, 3n) p:43-Tc-93g

44-Ru-96

Radionuclide Production Cross Section -0.434 To 0.033 %



90

Incident Energy (MeV)

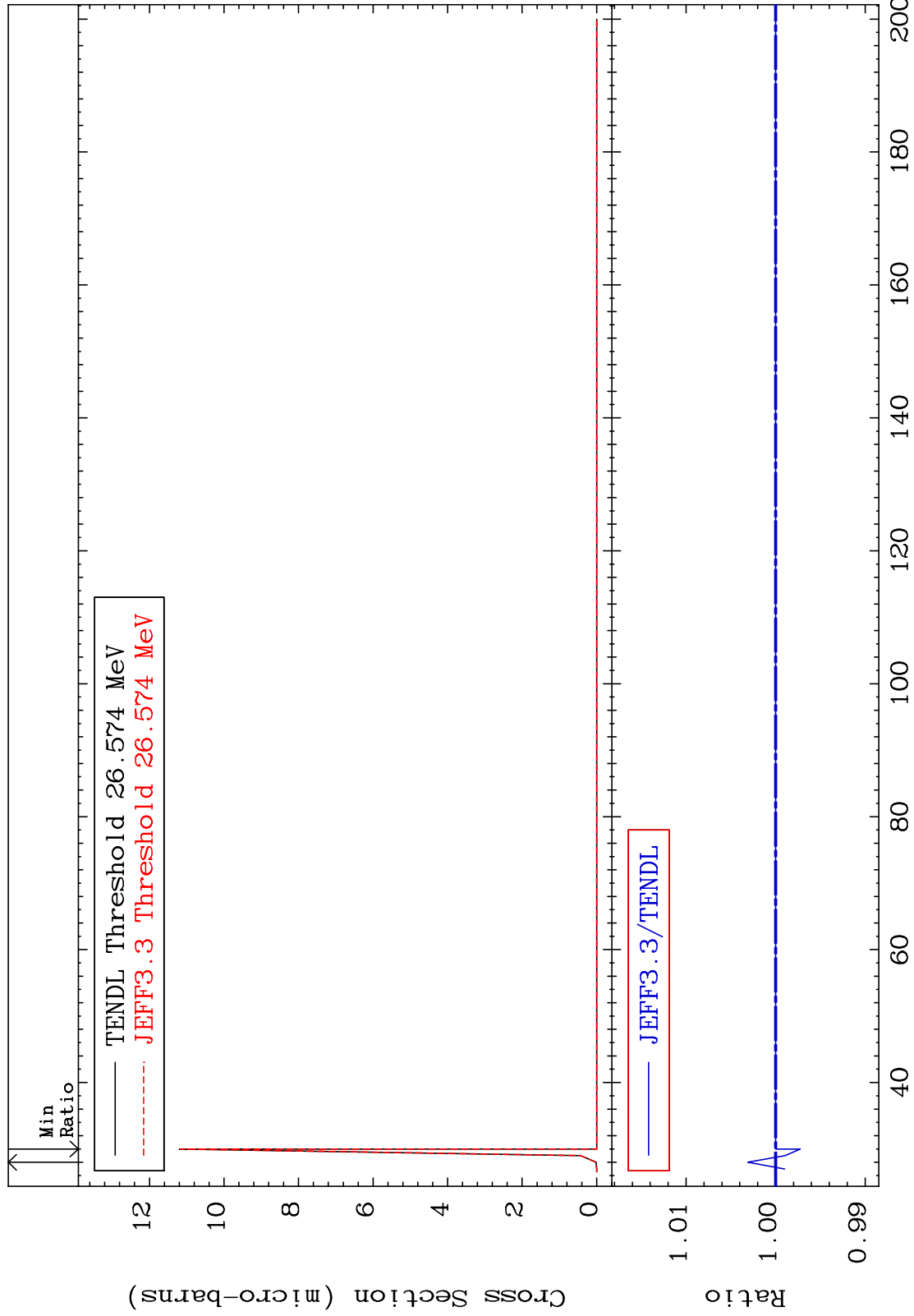
44-Ru-96

MAT 4425

(n,3n) p:43-Tc-93m1

44-Ru-96

Radionuclide Production Cross Section -0.274 To 0.311 %

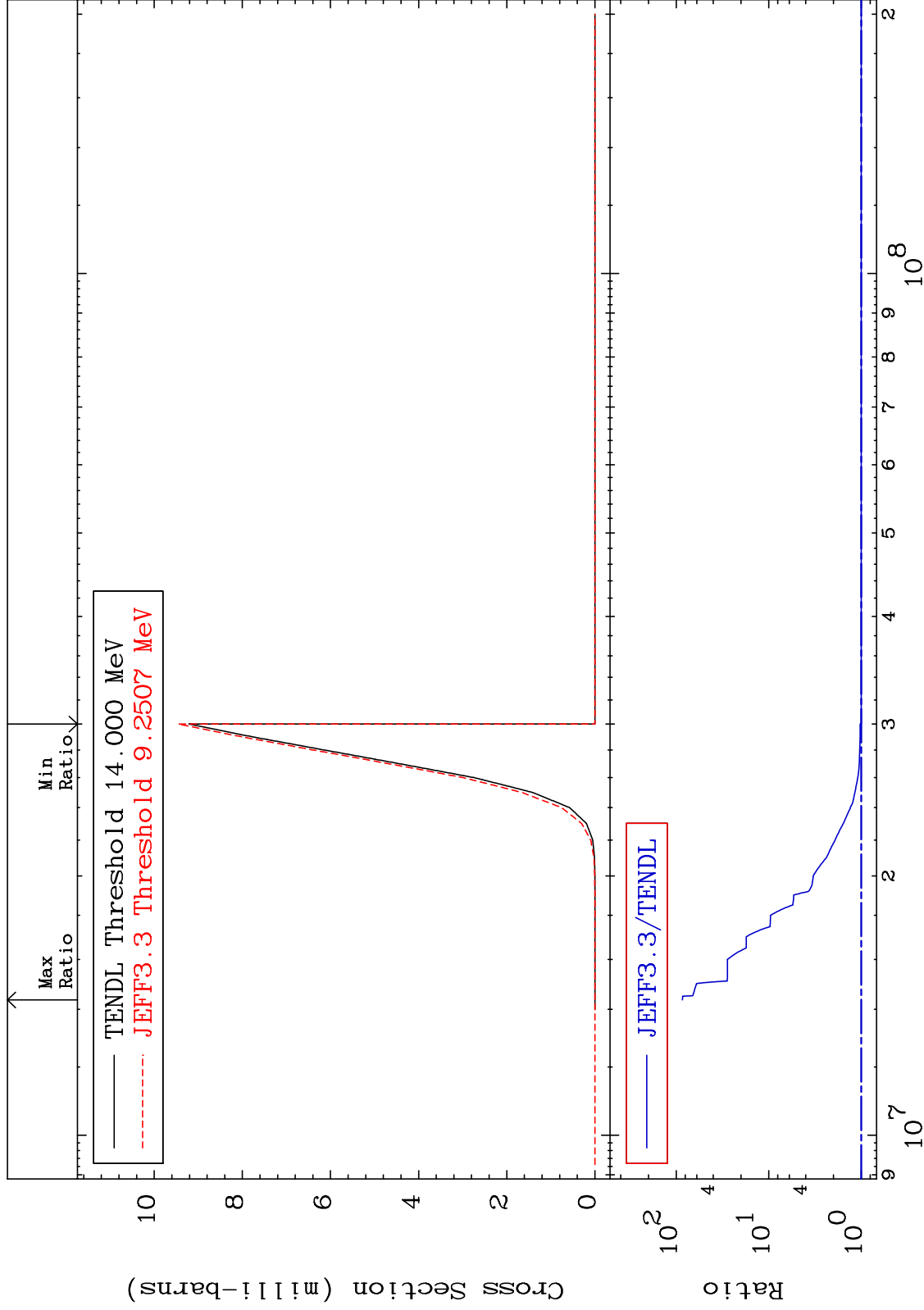


MAT 4425

(n,n') p α :41-Nb-91g

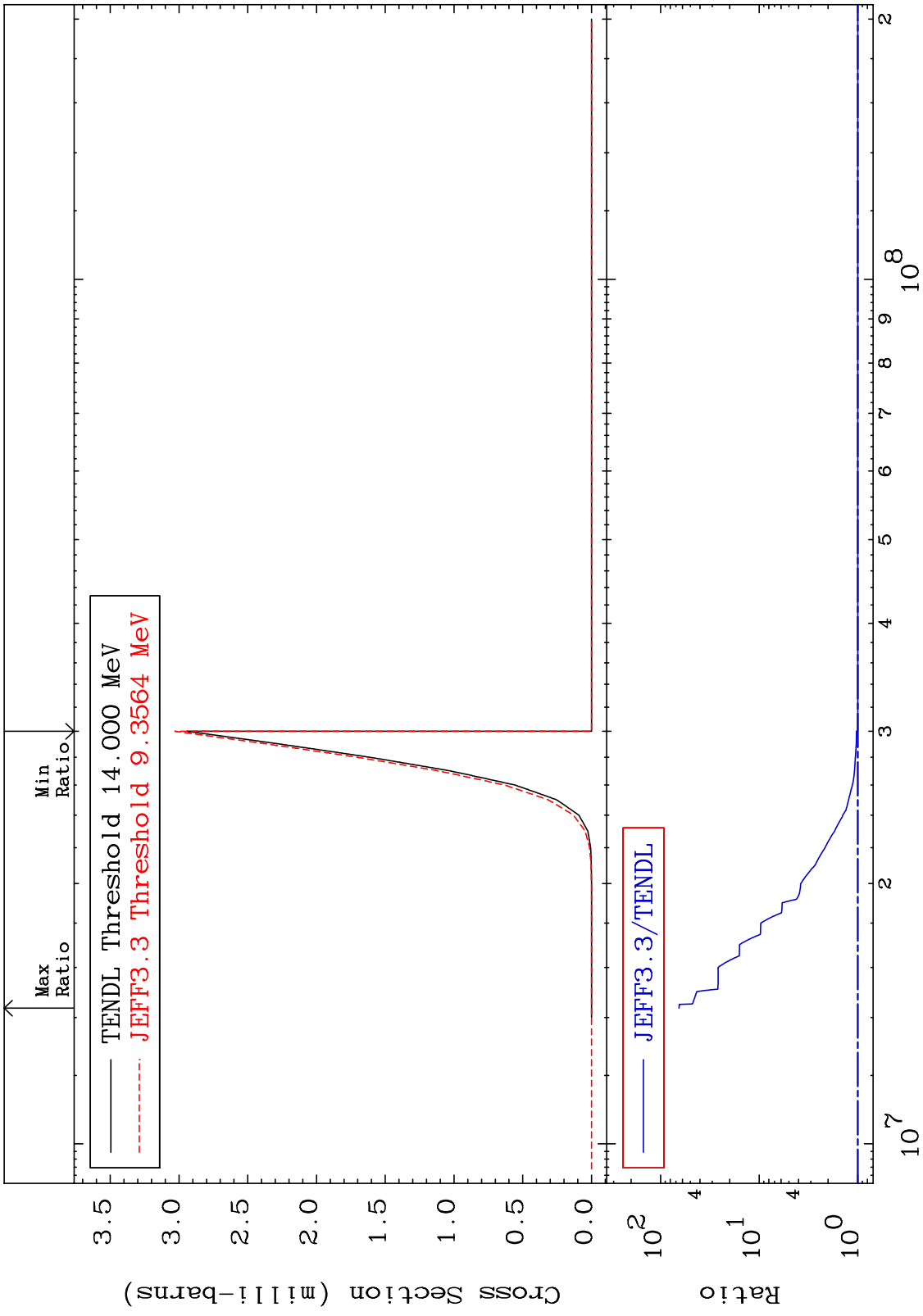
Radionuclide Production Cross Section 0.000 To 8484. %

44-Ru-96

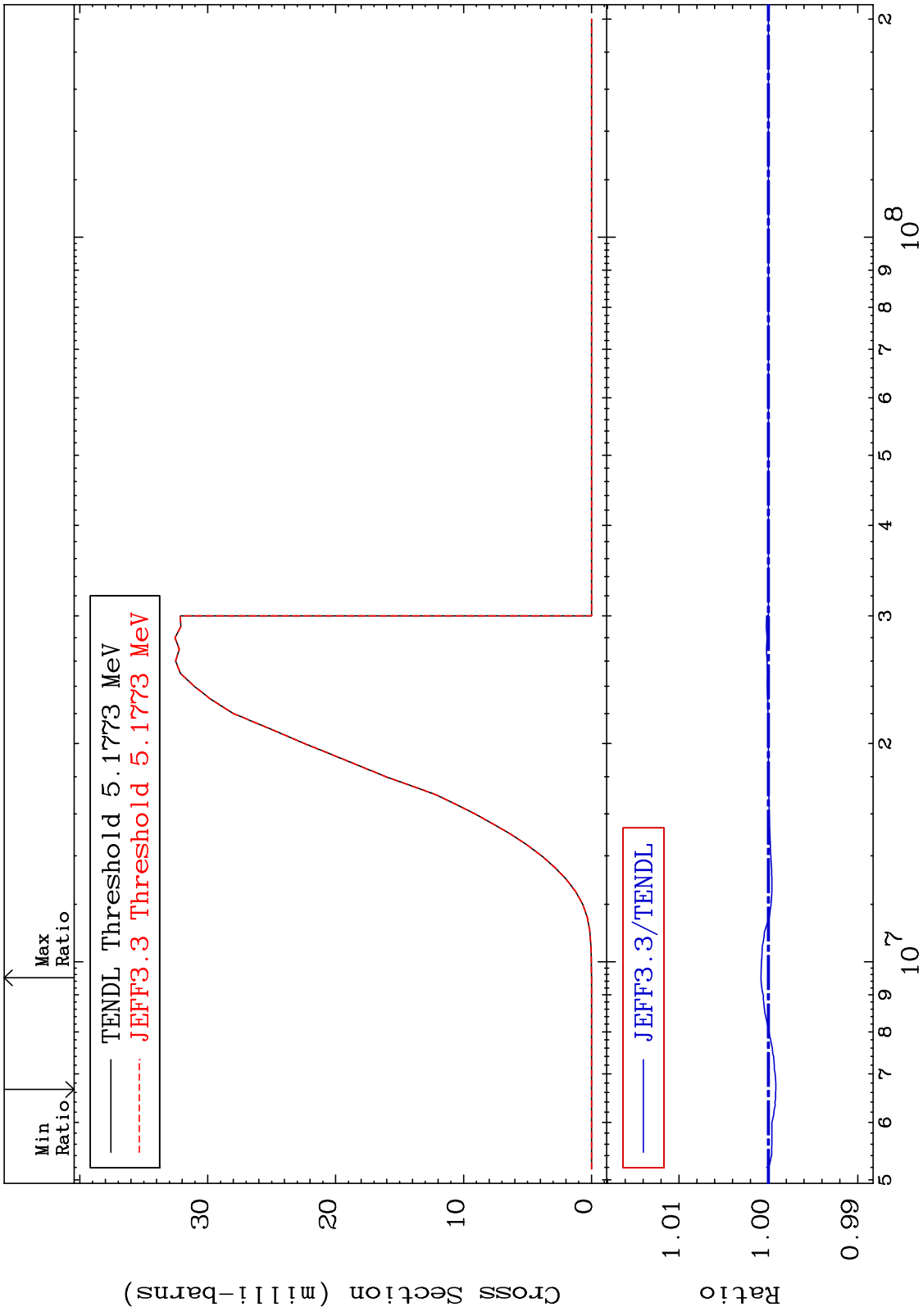


92

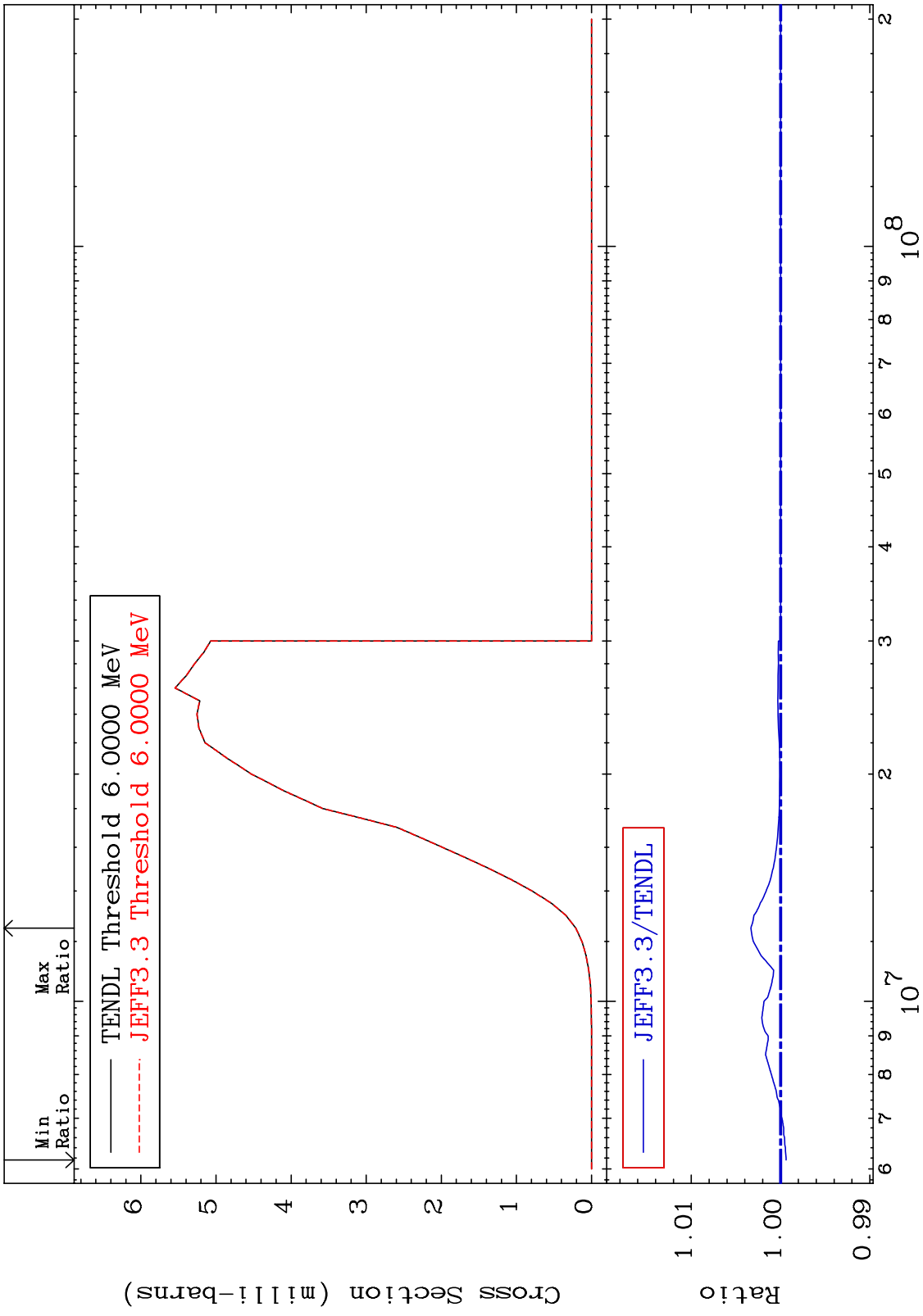
MAT 4425 (n,n') p α :41-Nb-91m1 44-Ru-96
 Radionuclide Production Cross Section 0.000 To 6414. %



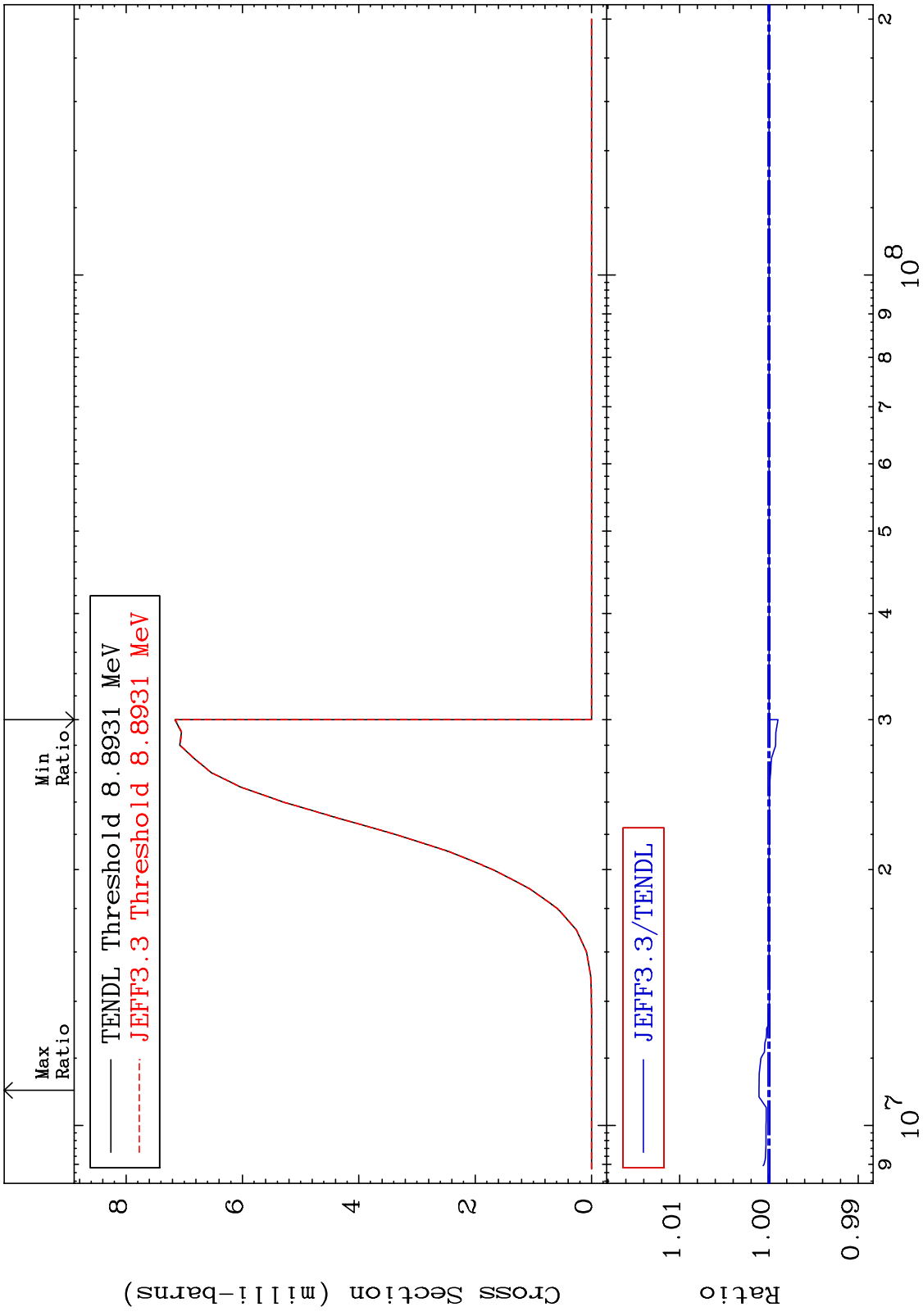
MAT 4425 (n,d):43-Tc-95g 44-Ru-96
 Radionuclide Production Cross Section -0.084 To 0.082 %



MAT 4425 (n,d):43-Tc-95m1 44-Ru-96
 Radionuclide Production Cross Section -0.062 To 0.334 %



MAT 4425 (n, t) : 43-Tc-94g 44-Ru-96
 Radionuclide Production Cross Section -0.101 To 0.112 %



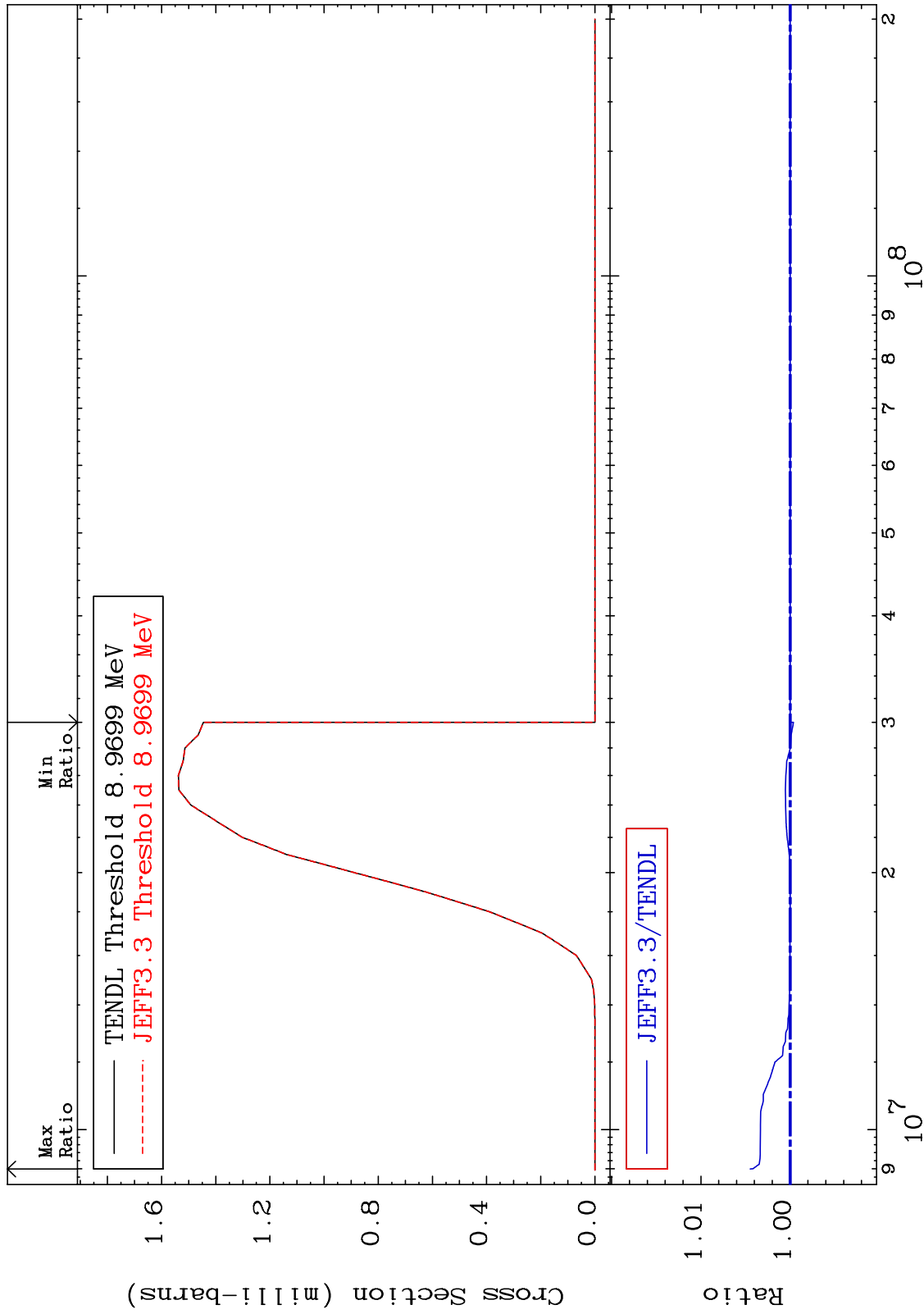
96 44-Ru-96

MAT 4425

(n, t) : 43-Tc-94m1

44-Ru-96

Radionuclide Production Cross Section -0.038 To 0.447 %



97

Incident Energy (eV)

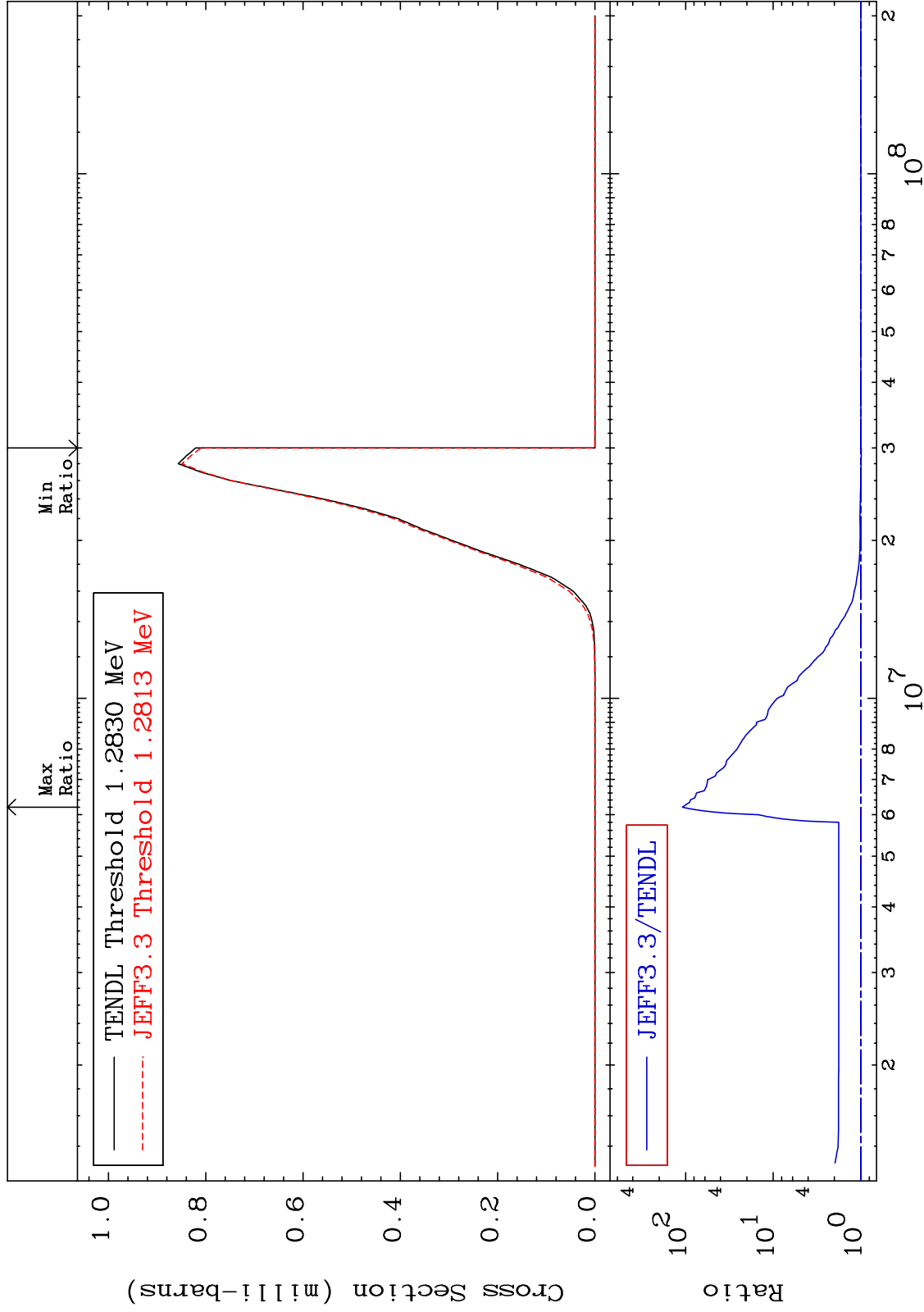
44-Ru-96

MAT 4425

(n,p) α : 41-Nb-92g

44-Ru-96

Radionuclide Production Cross Section -1.312 To 9999. %

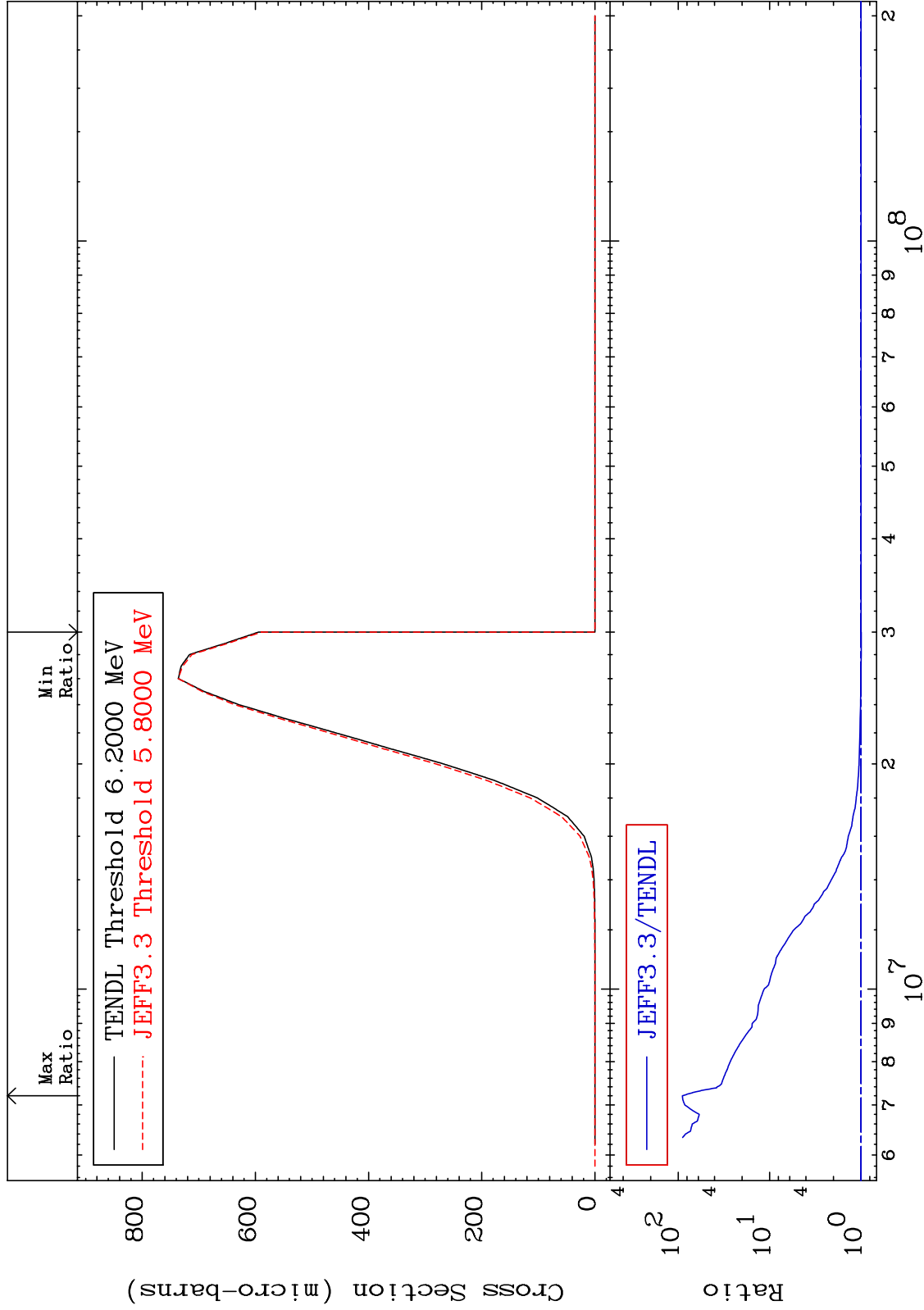


MAT 4425

(n, p) α : 41-Nb-92m1

44-Ru-96

Radionuclide Production Cross Section -0.866 To 8867. %



99

Incident Energy (eV)

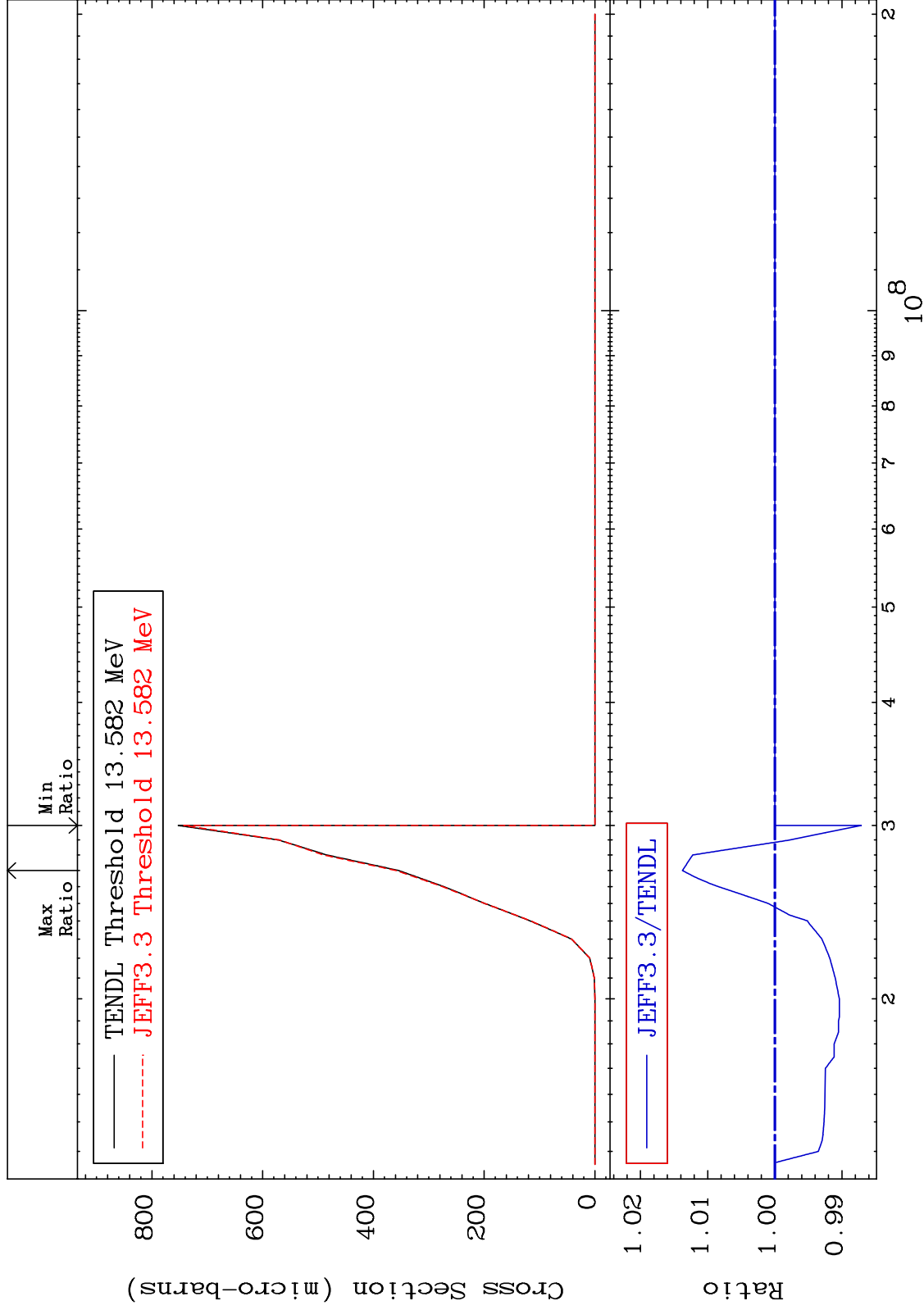
44-Ru-96

MAT 4425

(n,p) t:42-Mo-93g

44-Ru-96

Radionuclide Production Cross Section -1.288 To 1.375 %

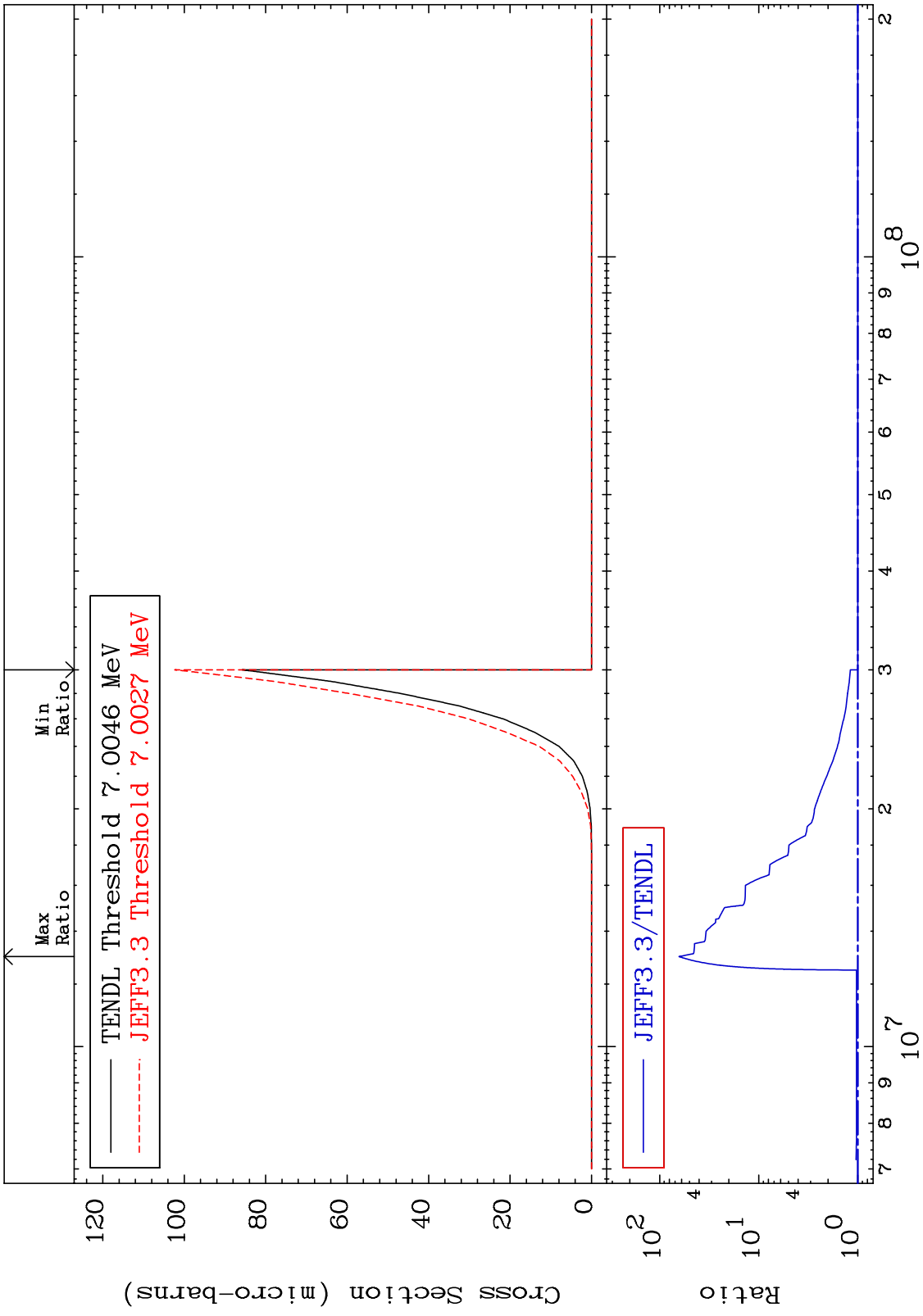


100

Incident Energy (eV)

44-Ru-96

MAT 4425 (n,d) α :41-Nb-91g 44-Ru-96
 Radionuclide Production Cross Section 0.000 To 6273. %



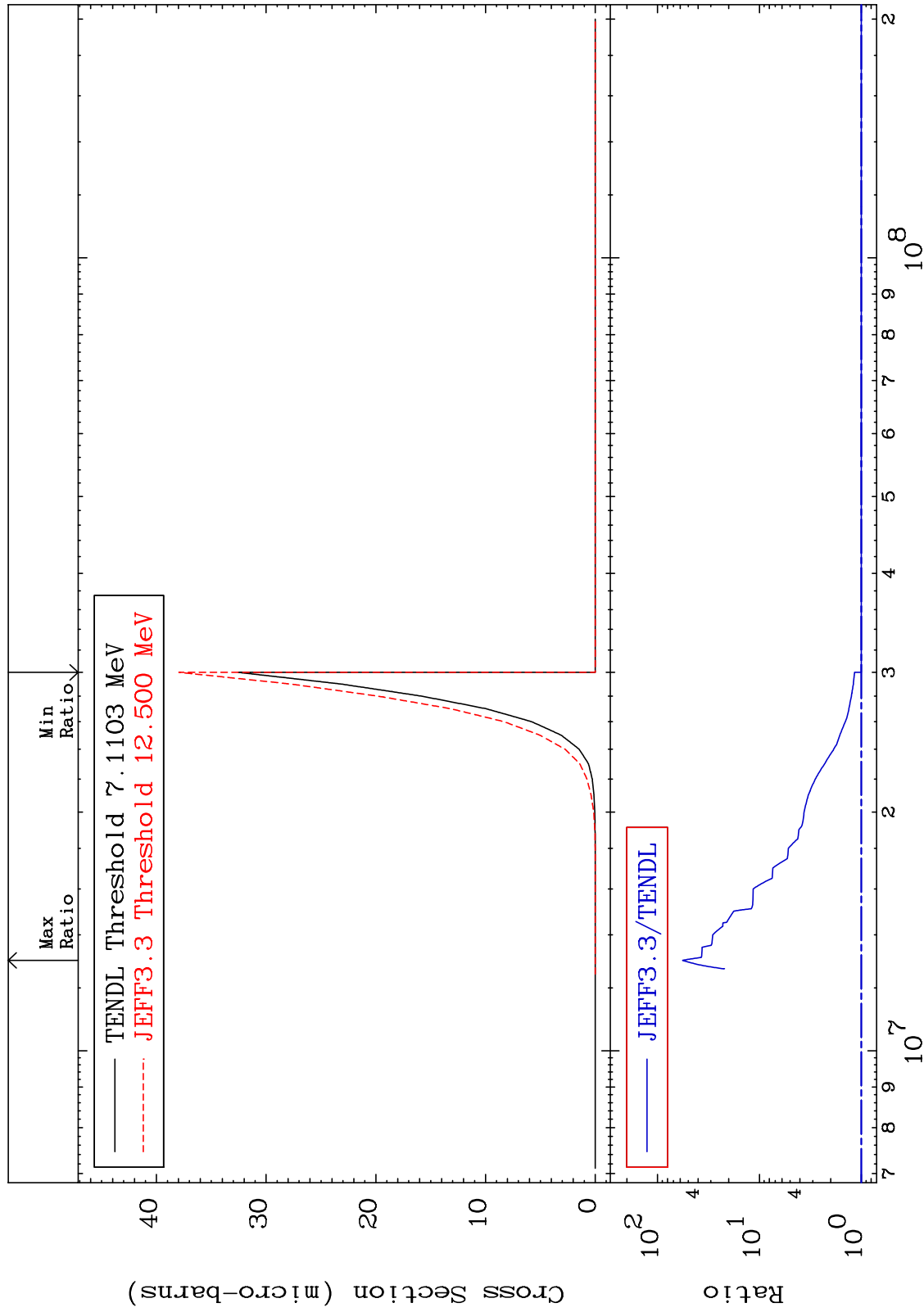
101 Incident Energy (eV) 44-Ru-96

MAT 4425

(n, d) α : 41-Nb-91m1

44-Ru-96

Radionuclide Production Cross Section 0.000 To 5572. %



102

Incident Energy (eV)

44-Ru-96