

Program Complot
(Version 2018-1)

by

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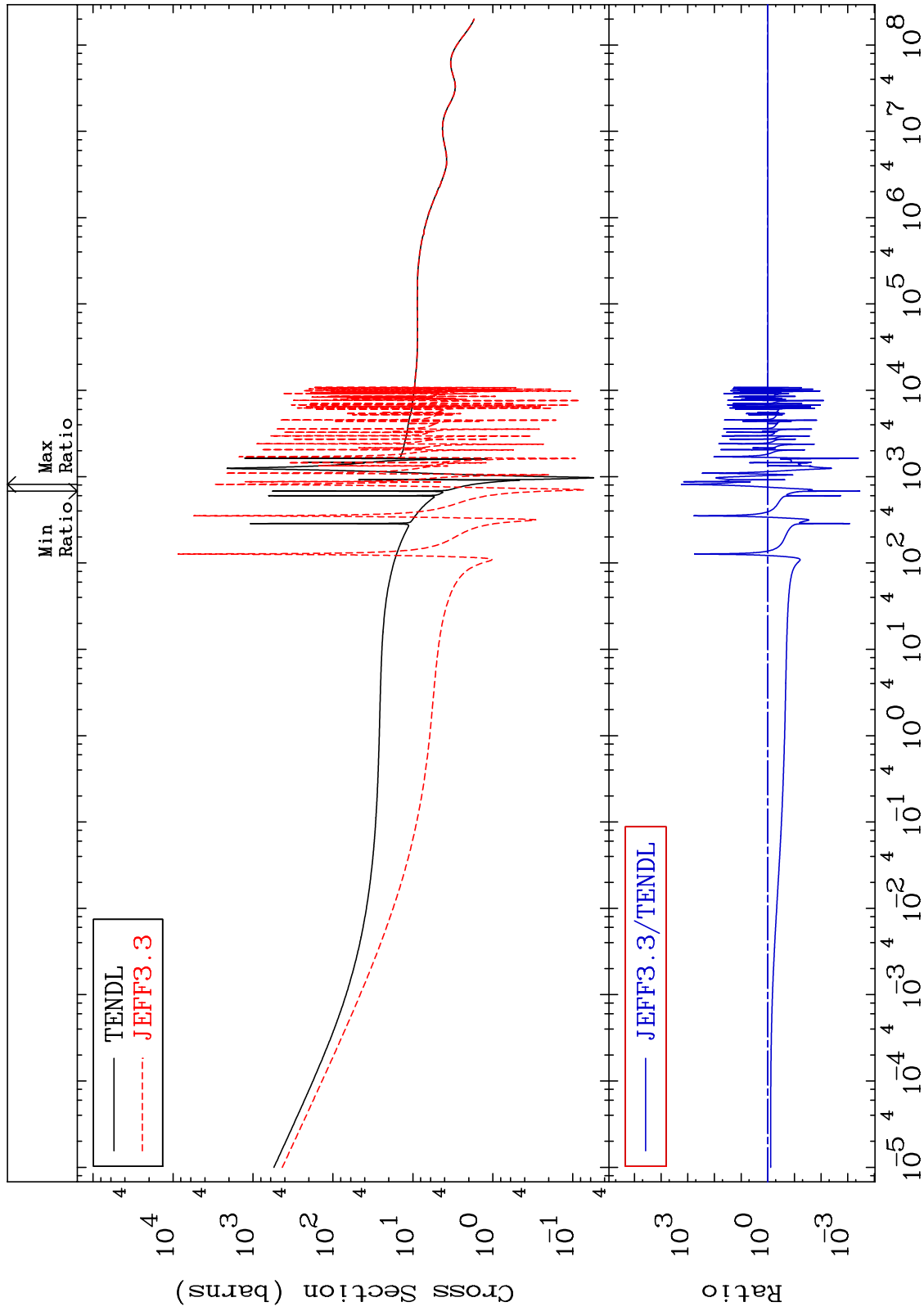
Press Mouse Button to Start

MAT 4431

Total
Cross Section

44-Ru-98

-99.96 To 9999. %



1

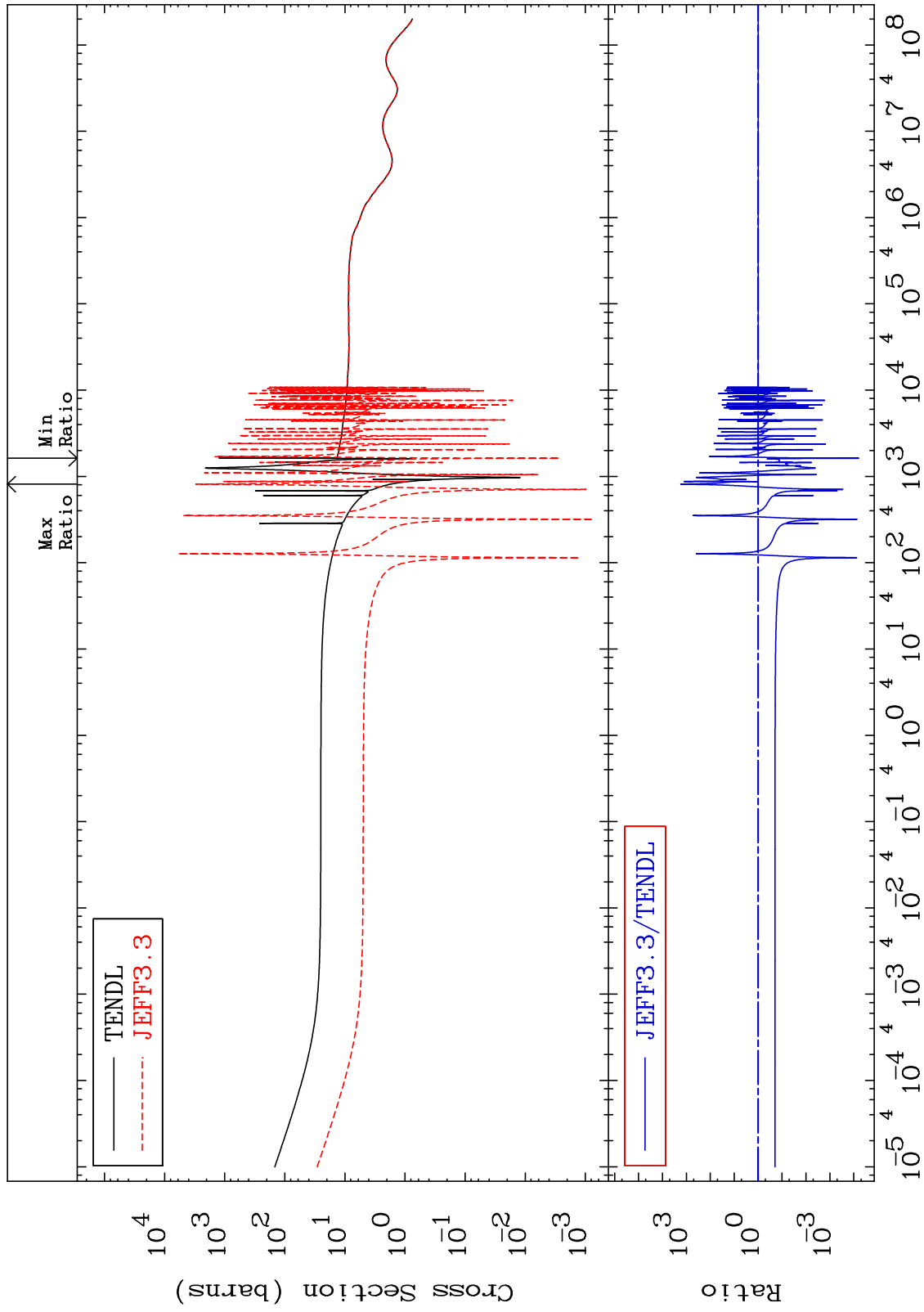
Incident Energy (eV)

44-Ru-98

MAT 4431

Elastic
Cross Section

44-Ru-98
-99.99 To 9999. %



2

Incident Energy (eV)

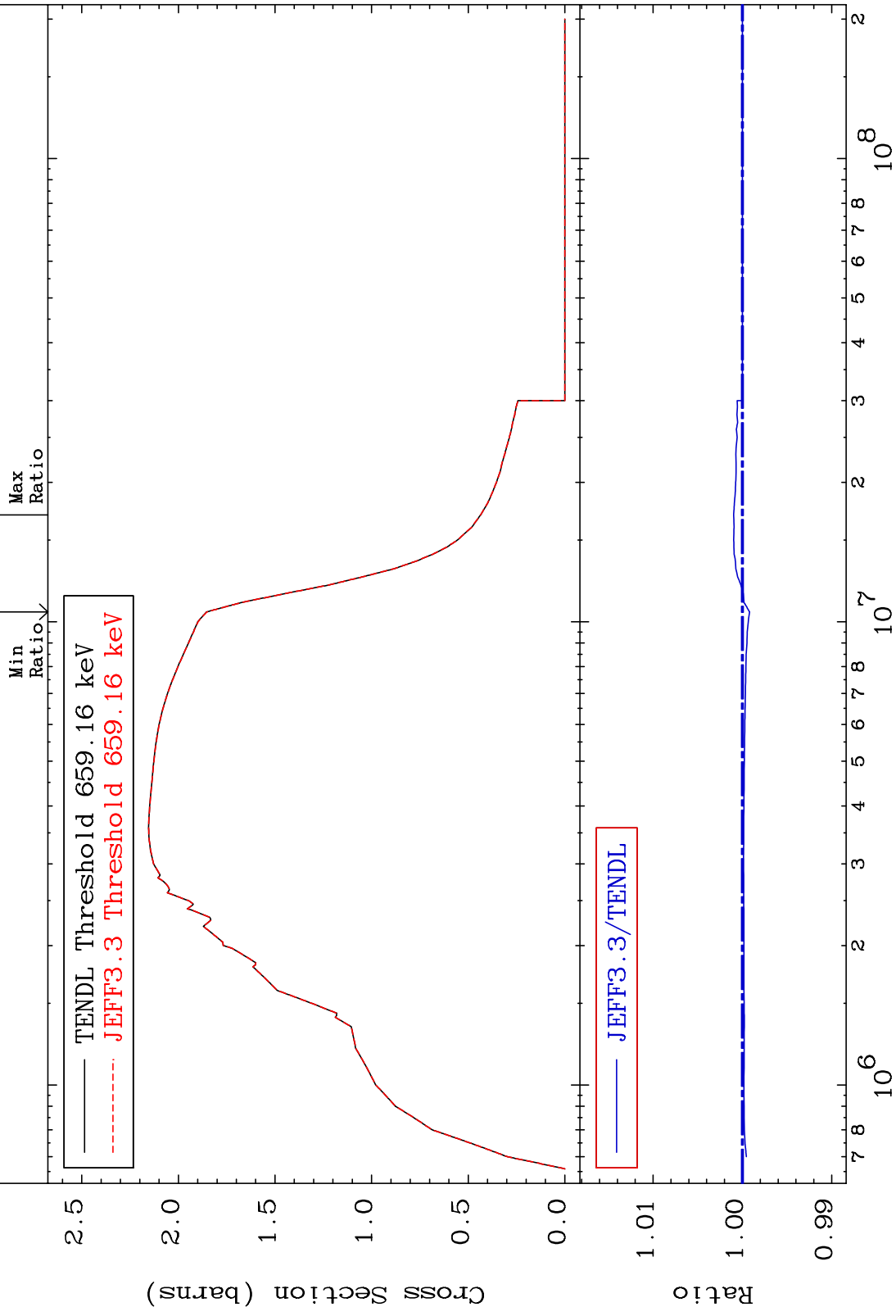
44-Ru-98

MAT 4431

Inelastic
Cross Section

44-Ru-98

-0.079 To 0.098 %

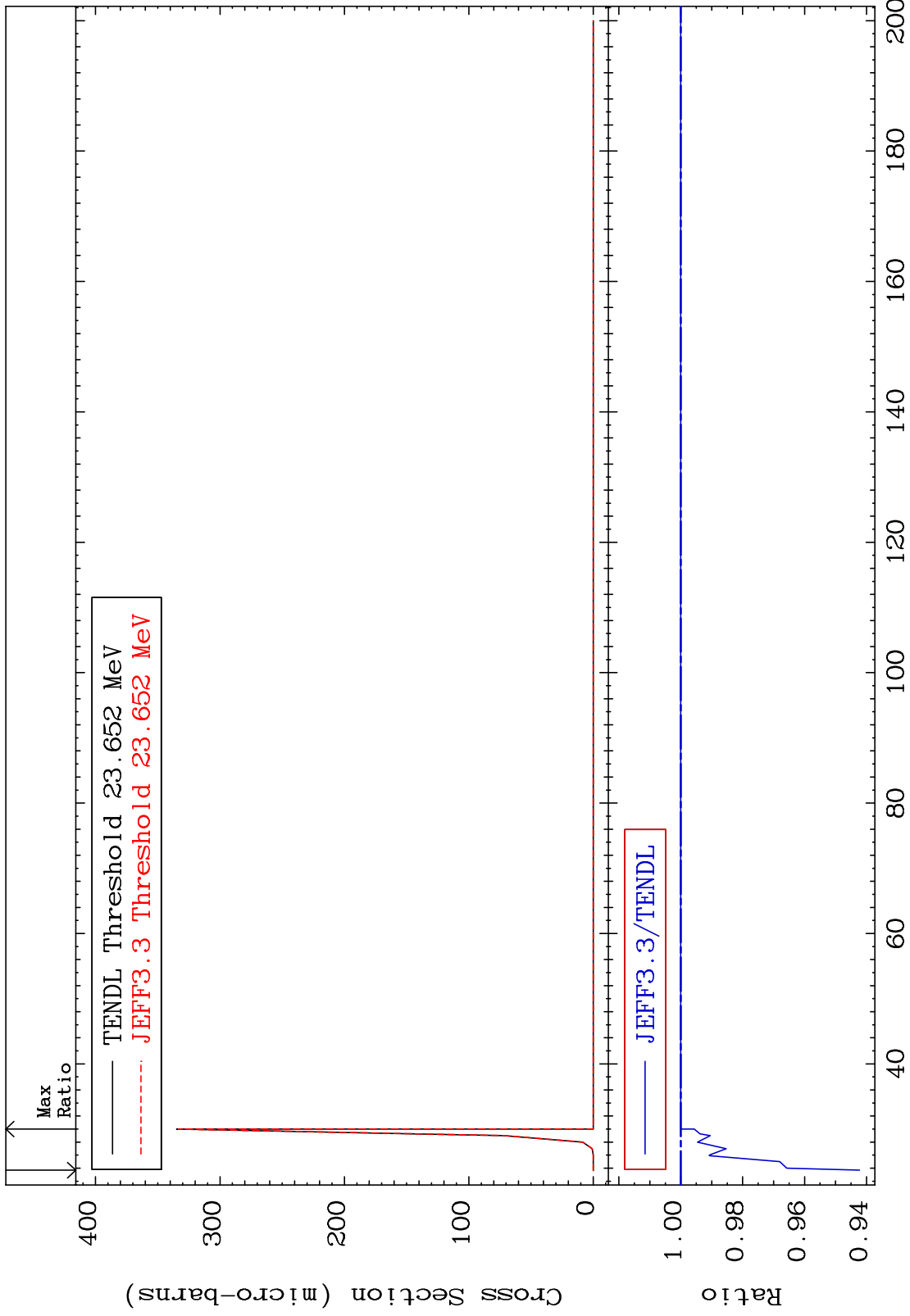


3

Incident Energy (eV)

44-Ru-98

MAT 4431 (n,2n) d 44-Ru-98
Cross Section -5.778 To 0.000 %



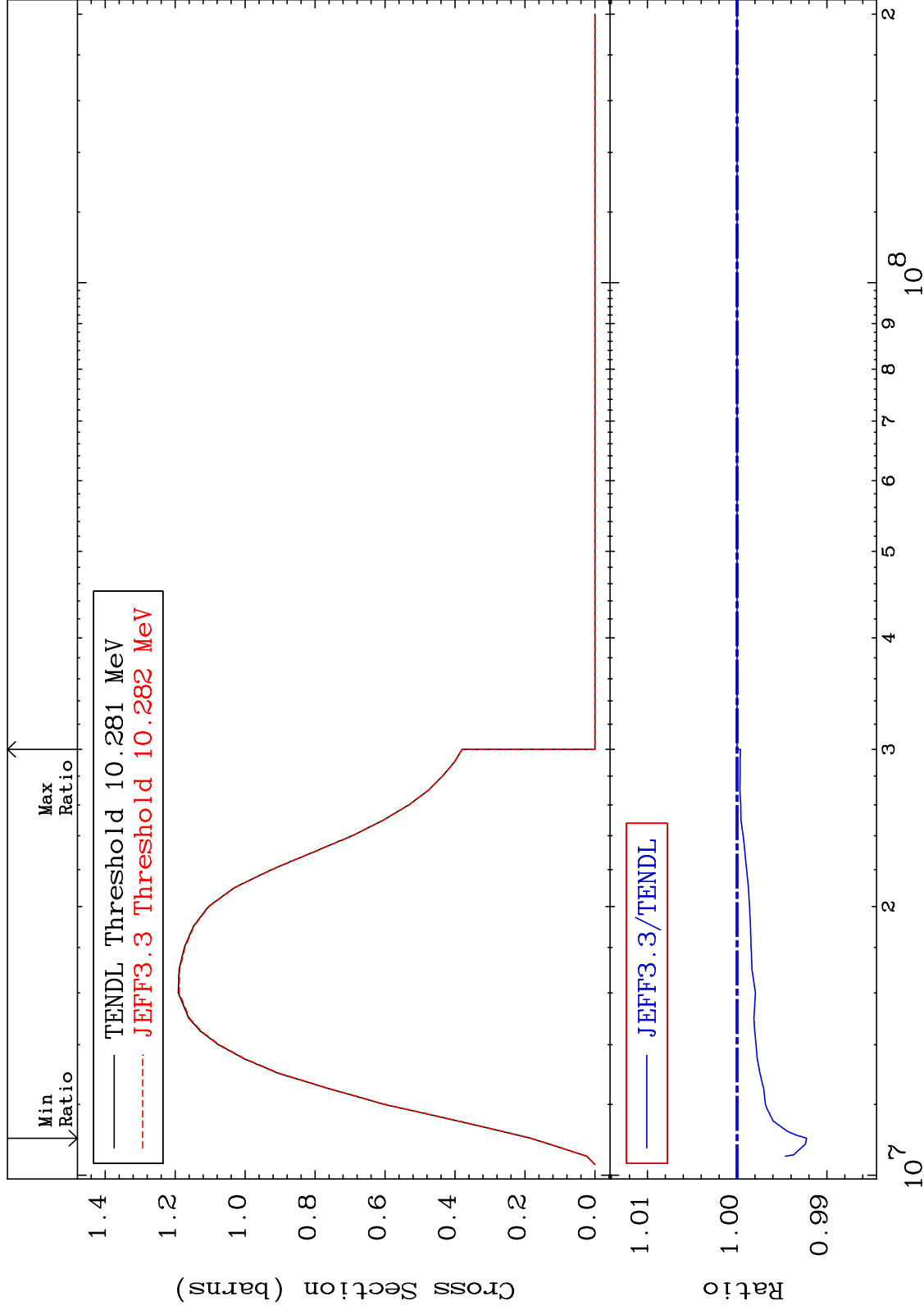
MAT 4431

(n,2n)

44-Ru-98

-0.775 To 0.000 %

Cross Section



44-Ru-98

44-Ru-98

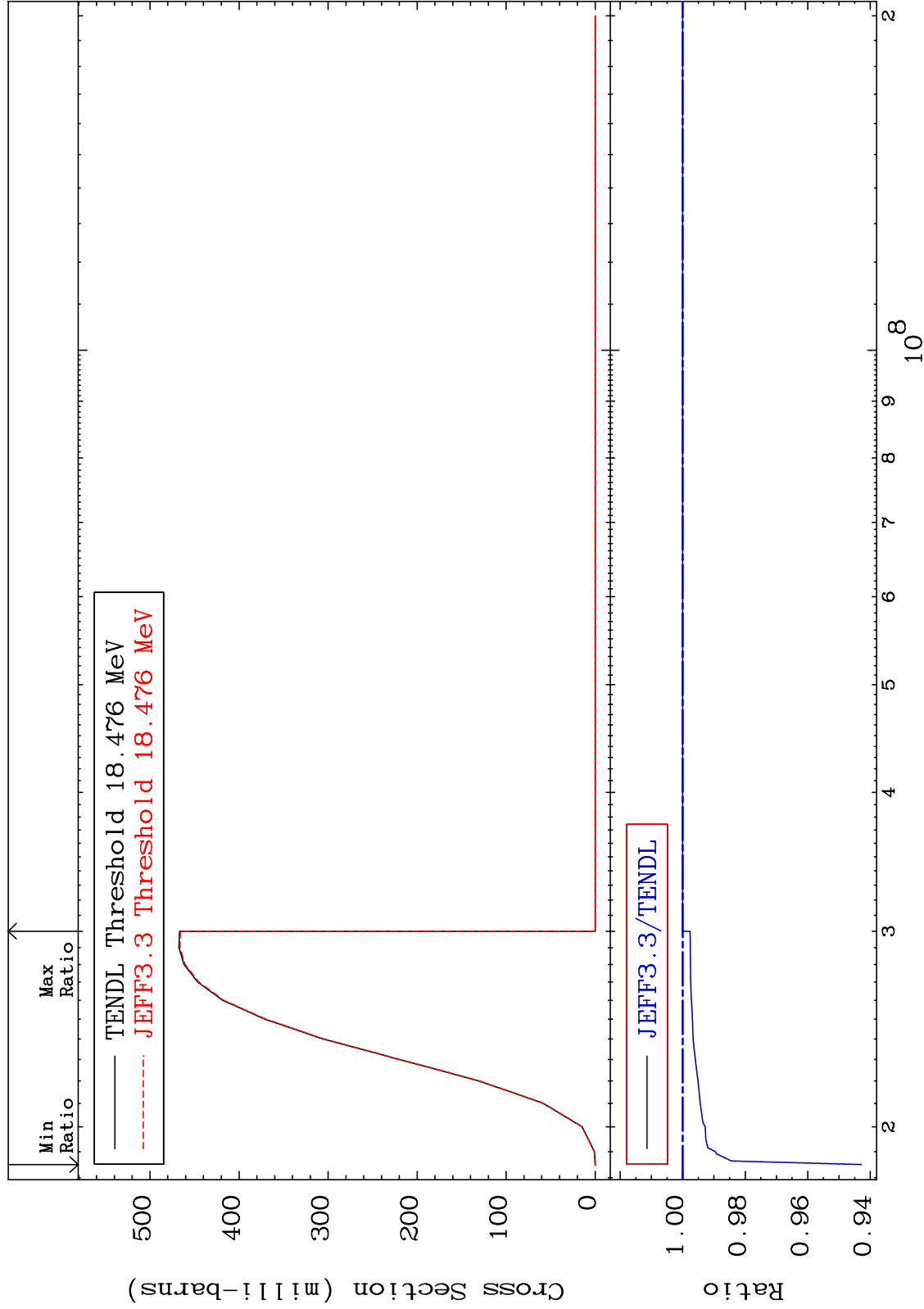
MAT 4431

(n,3n)

44-Ru-98

Cross Section

-5.714 To 0.000 %



6

Incident Energy (eV)

44-Ru-98

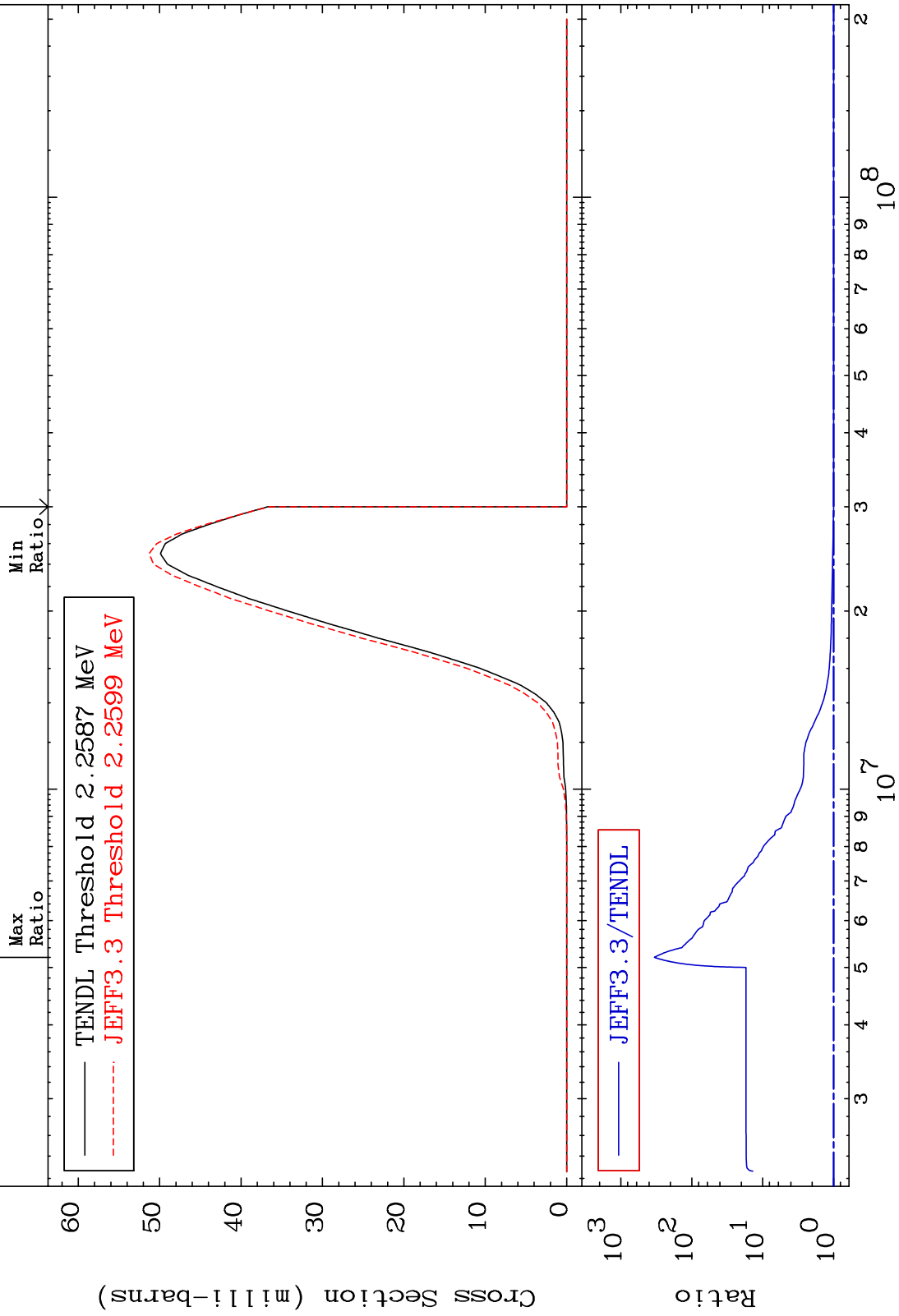
MAT 4431

(n, n') α

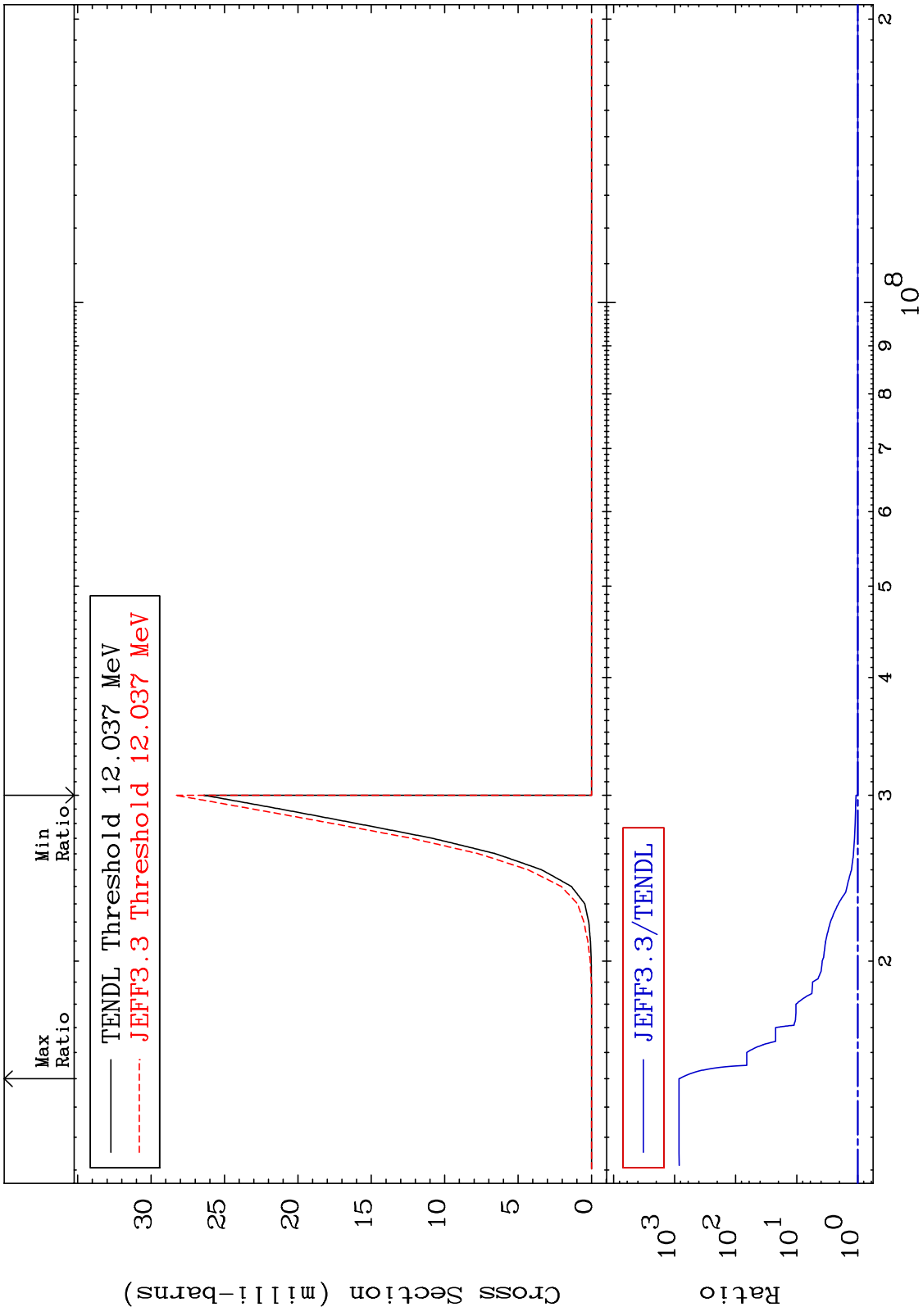
44-Ru-98

-0.409 To 9999. %

Cross Section



MAT 4431 $(n, 2n) \alpha$ 44-Ru-98
 Cross Section 0.000 To 9999. %



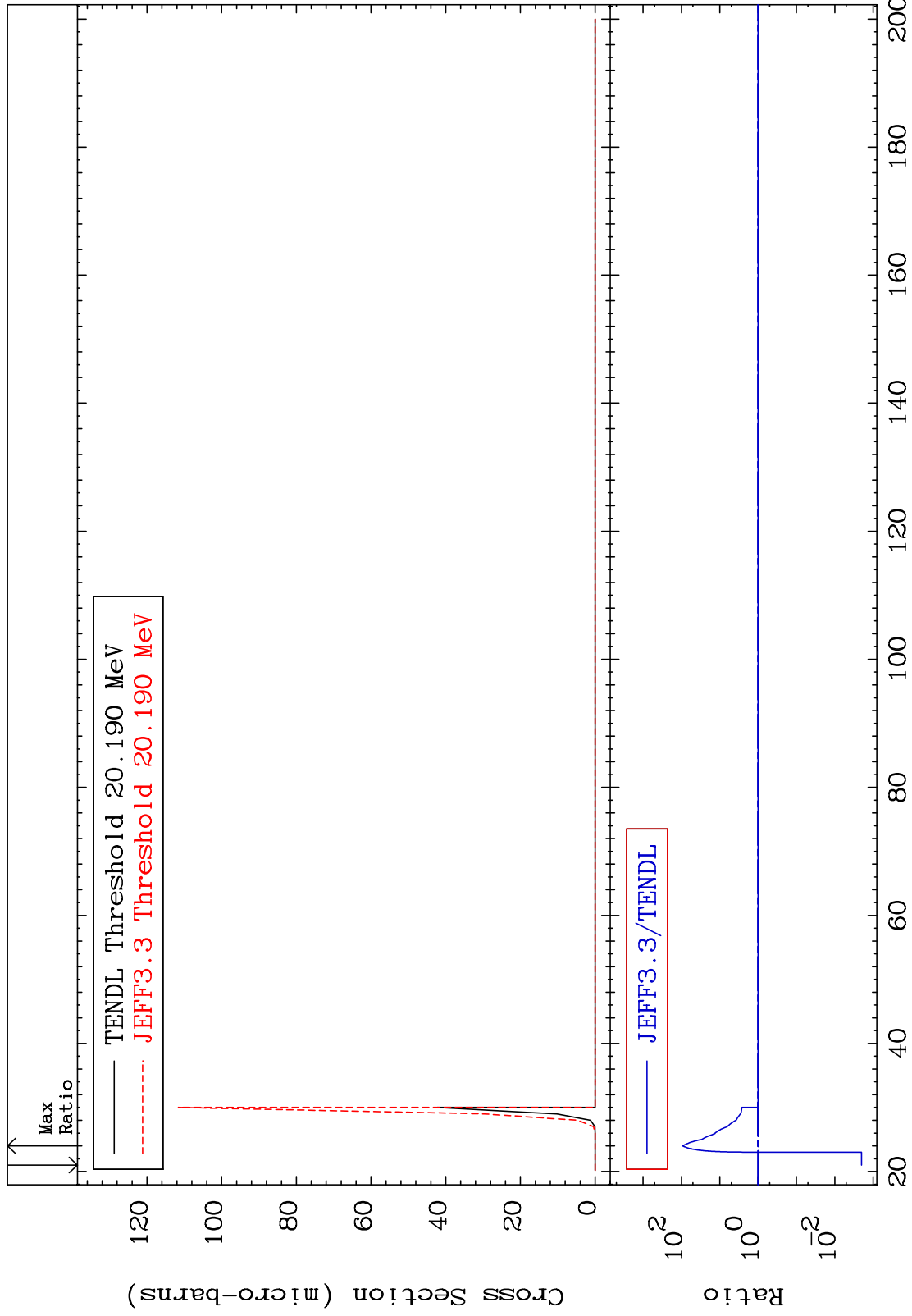
MAT 4431

(n,3n) α

44-Ru-98

Cross Section

-99.80 To 9184. %



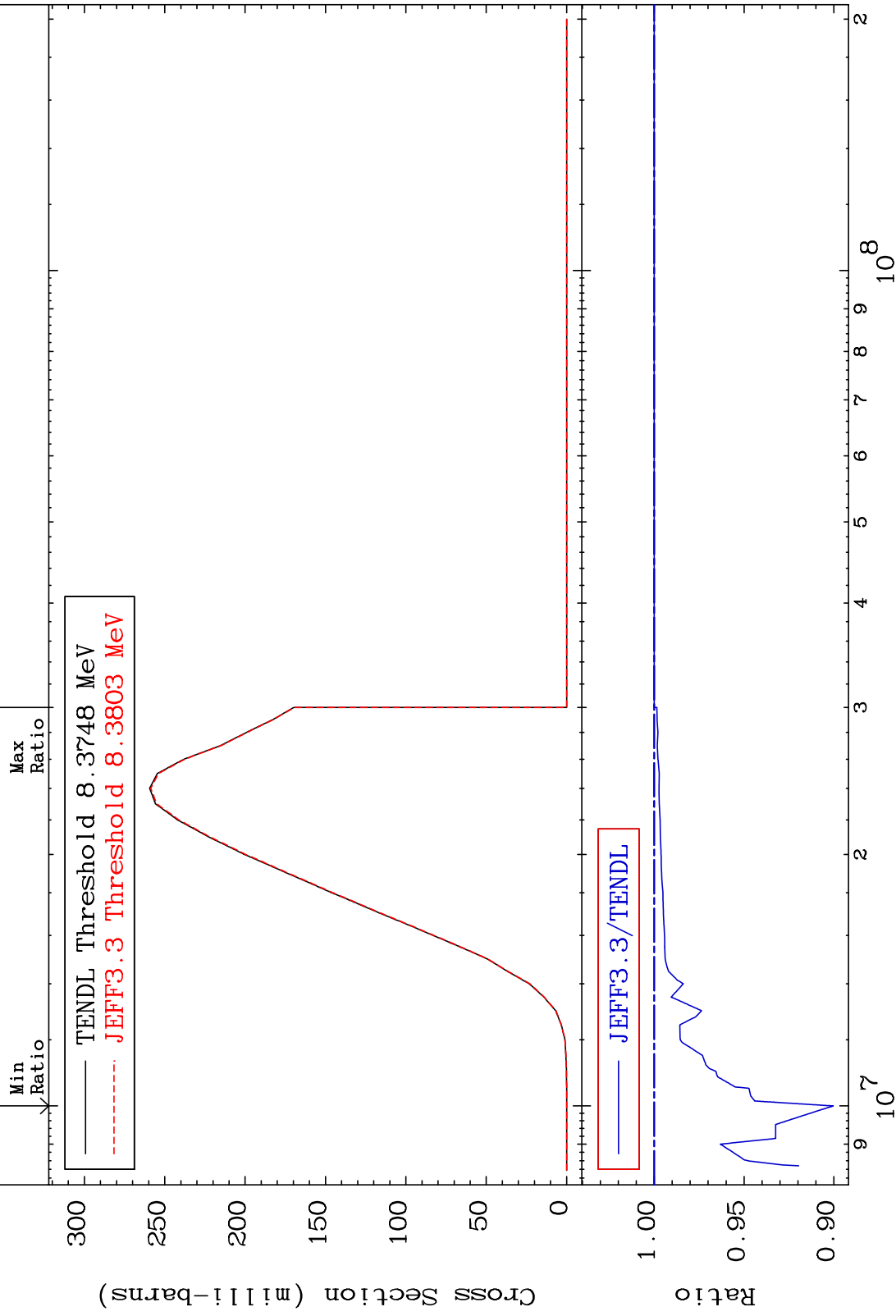
MAT 4431

(n, n') p

44-Ru-98

-9.967 To 0.000 %

Cross Section



10

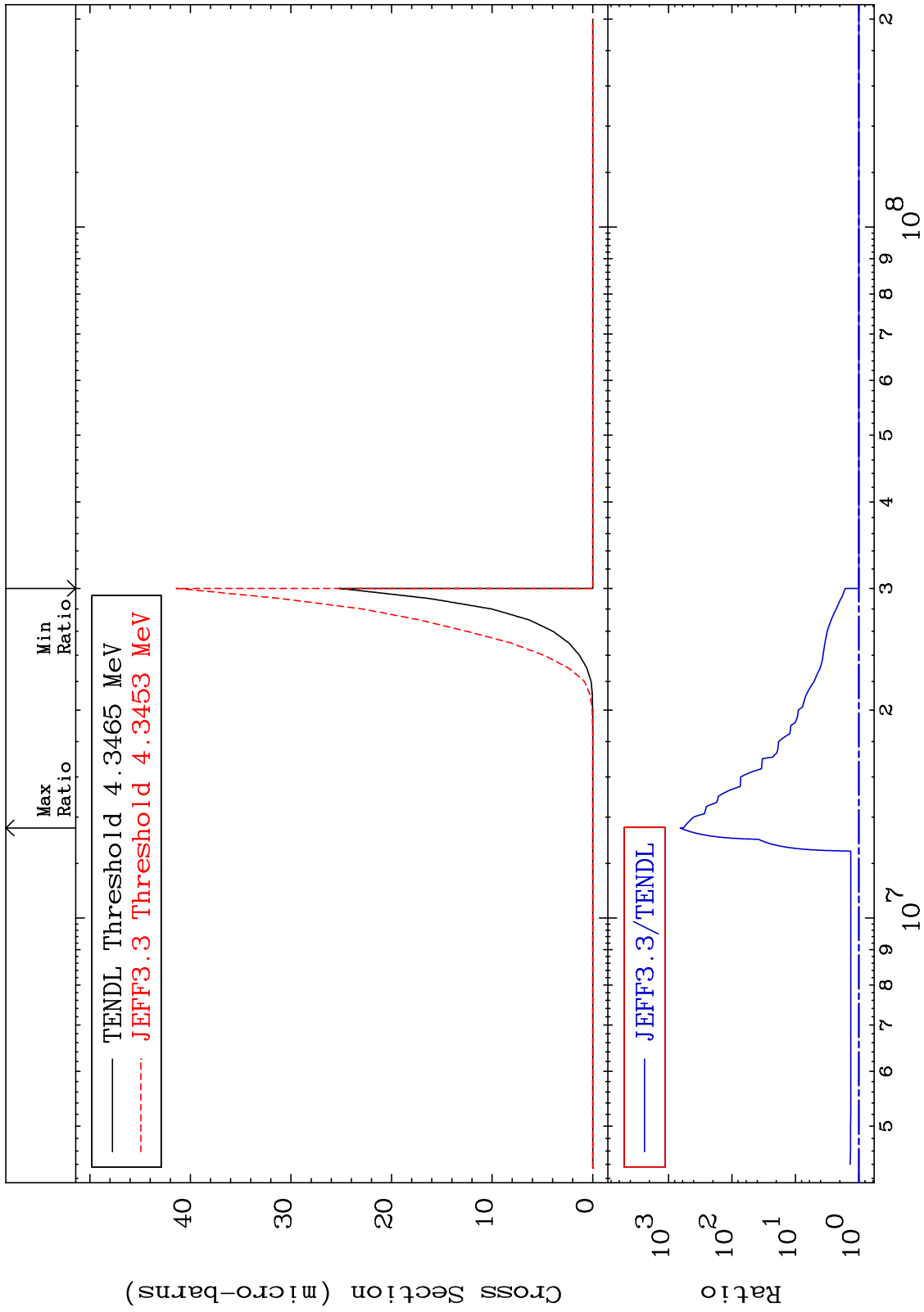
Incident Energy (eV)

44-Ru-98

MAT 4431

(n,n') 2α
Cross Section

44-Ru-98
0.000 To 9999. %



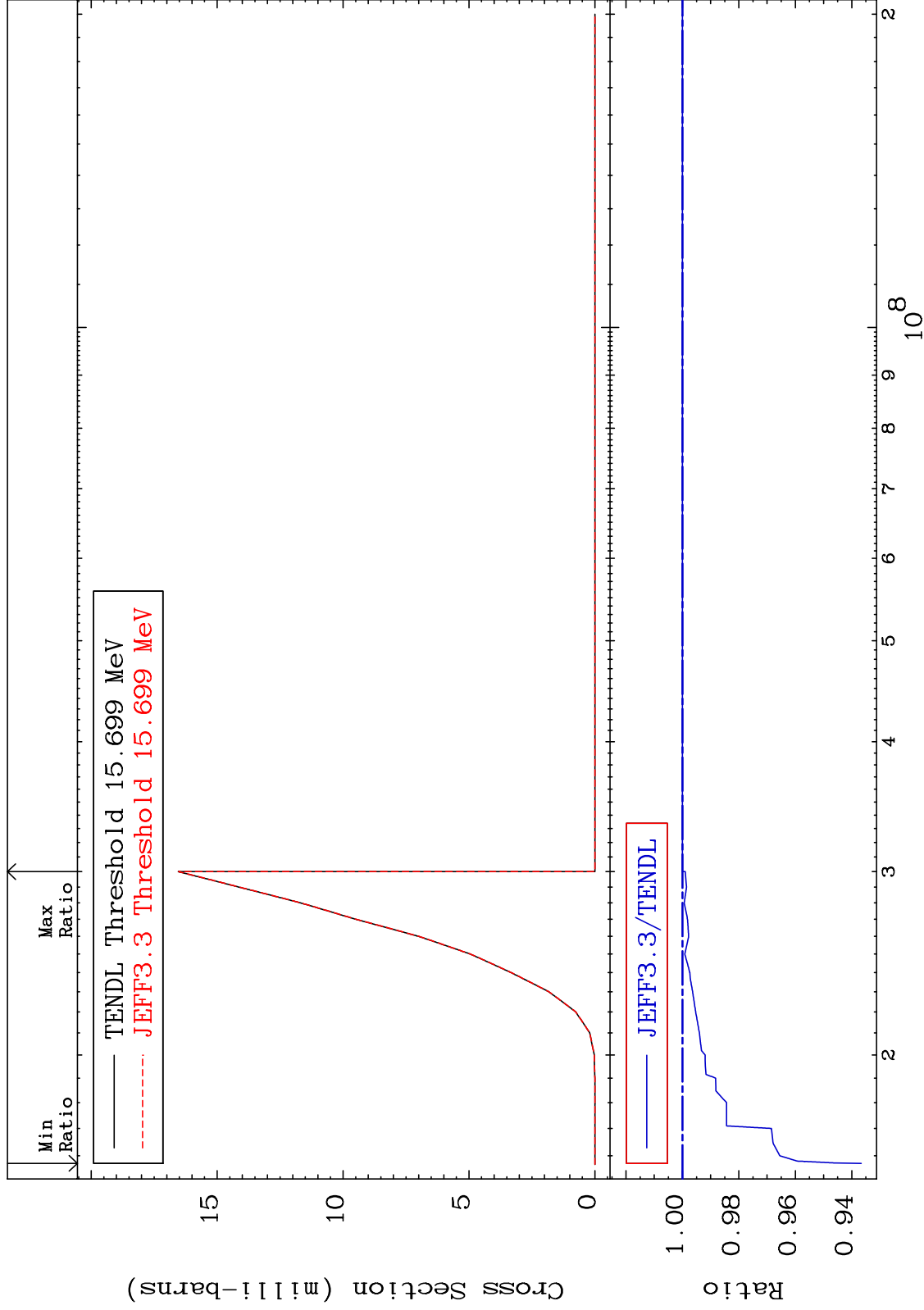
MAT 4431

(n, n') d

44-Ru-98

Cross Section

-6.338 To 0.000 %



12

44-Ru-98

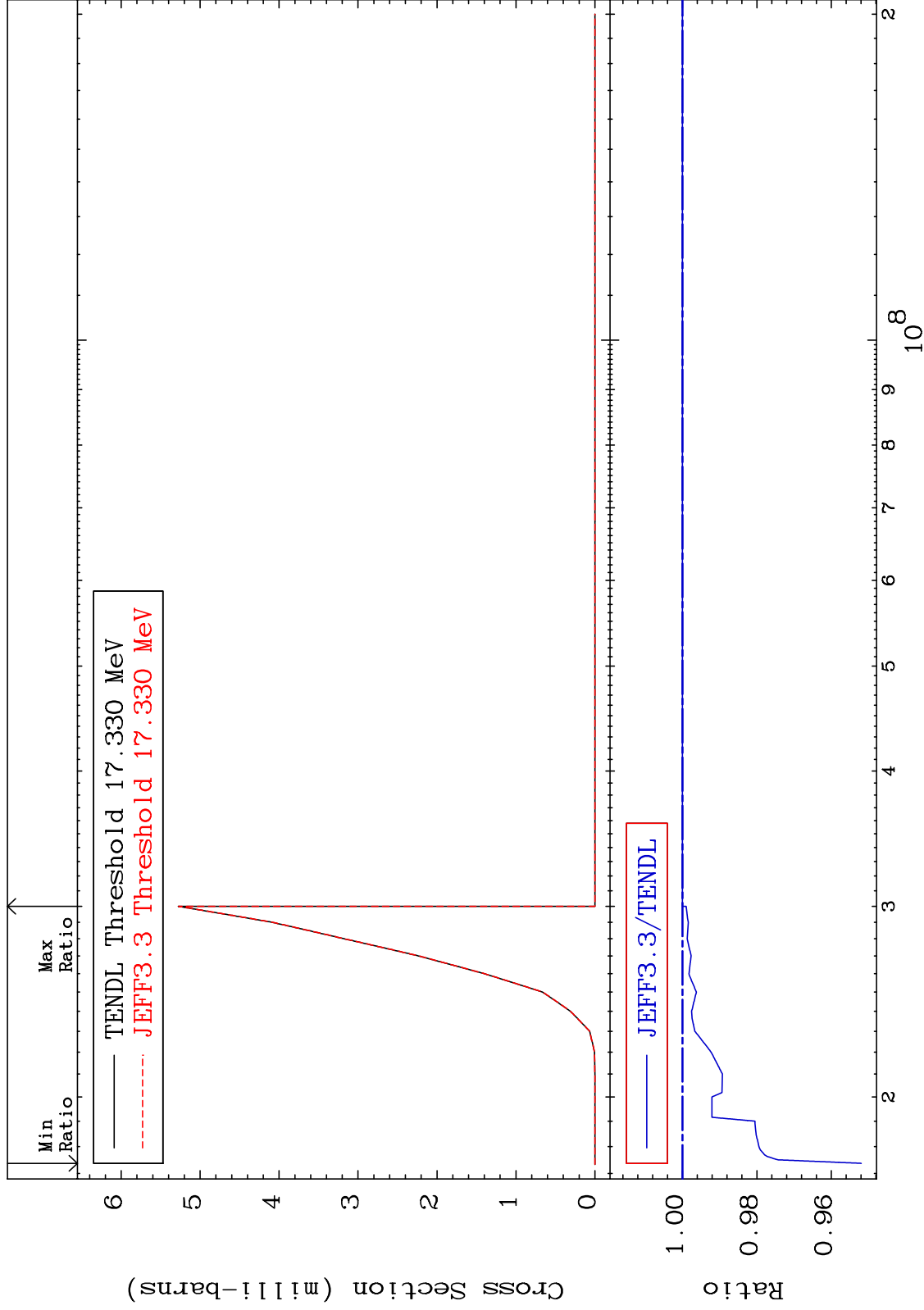
MAT 4431

(n, n') t

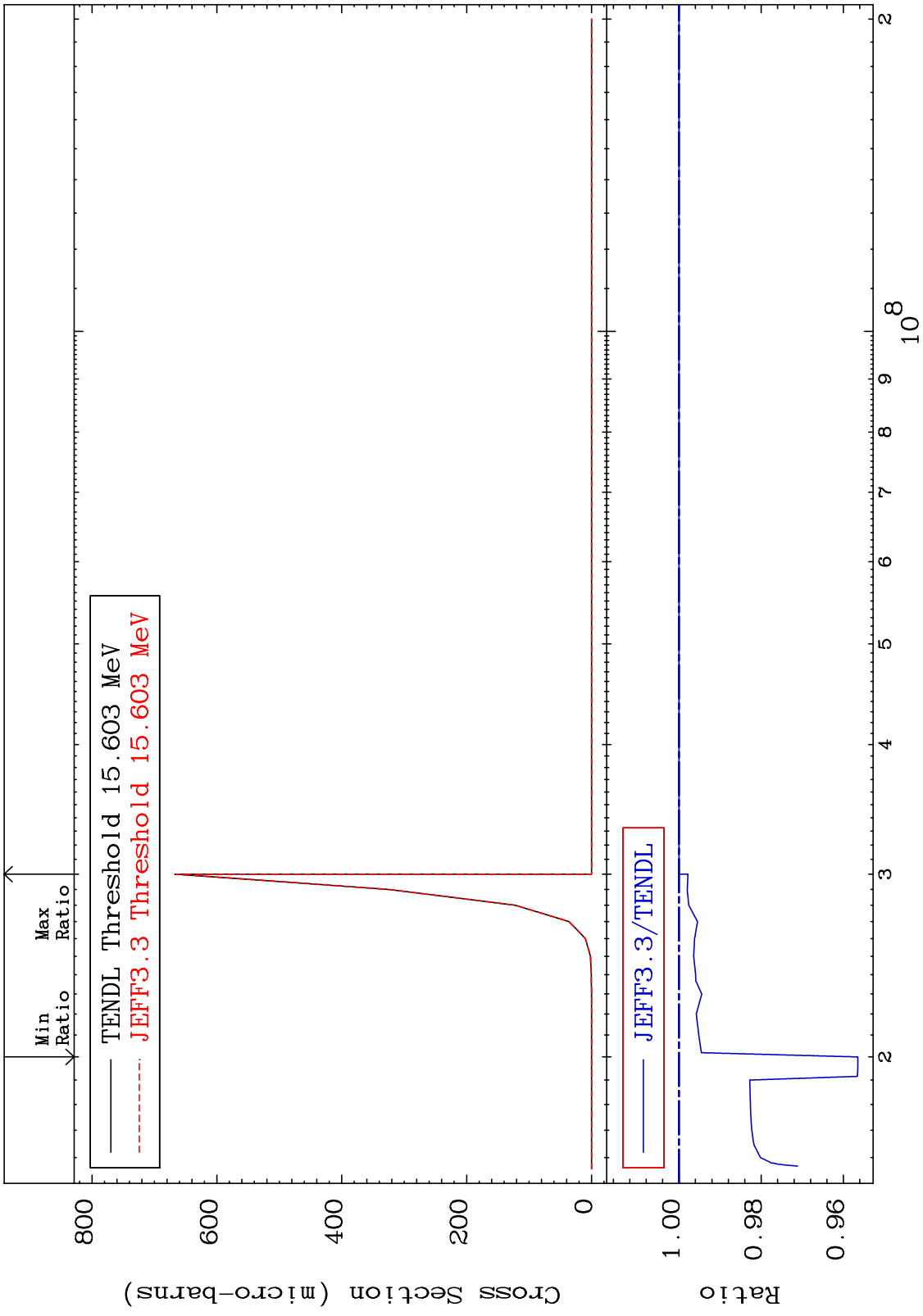
44-Ru-98

Cross Section

-4.808 To 0.000 %

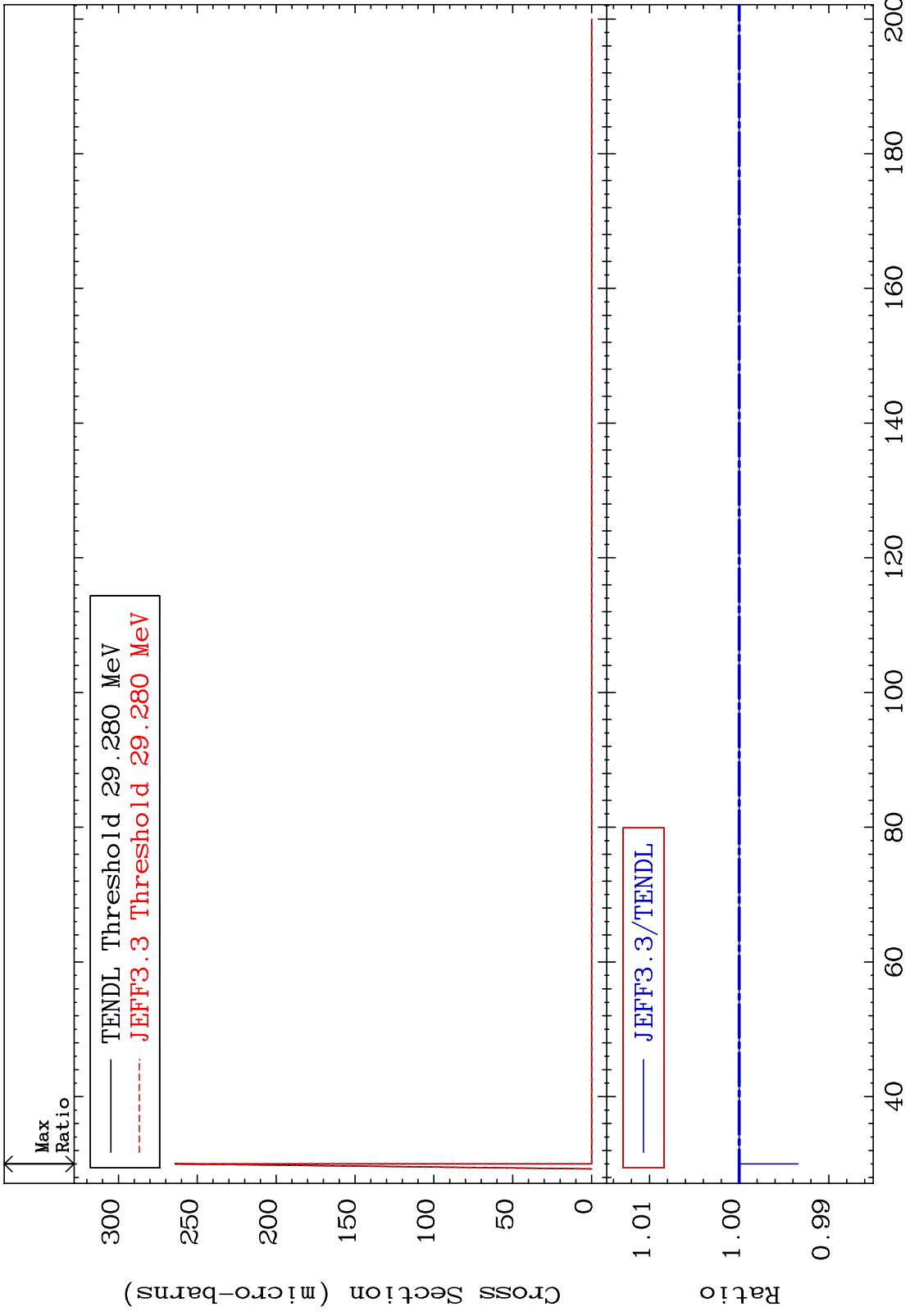


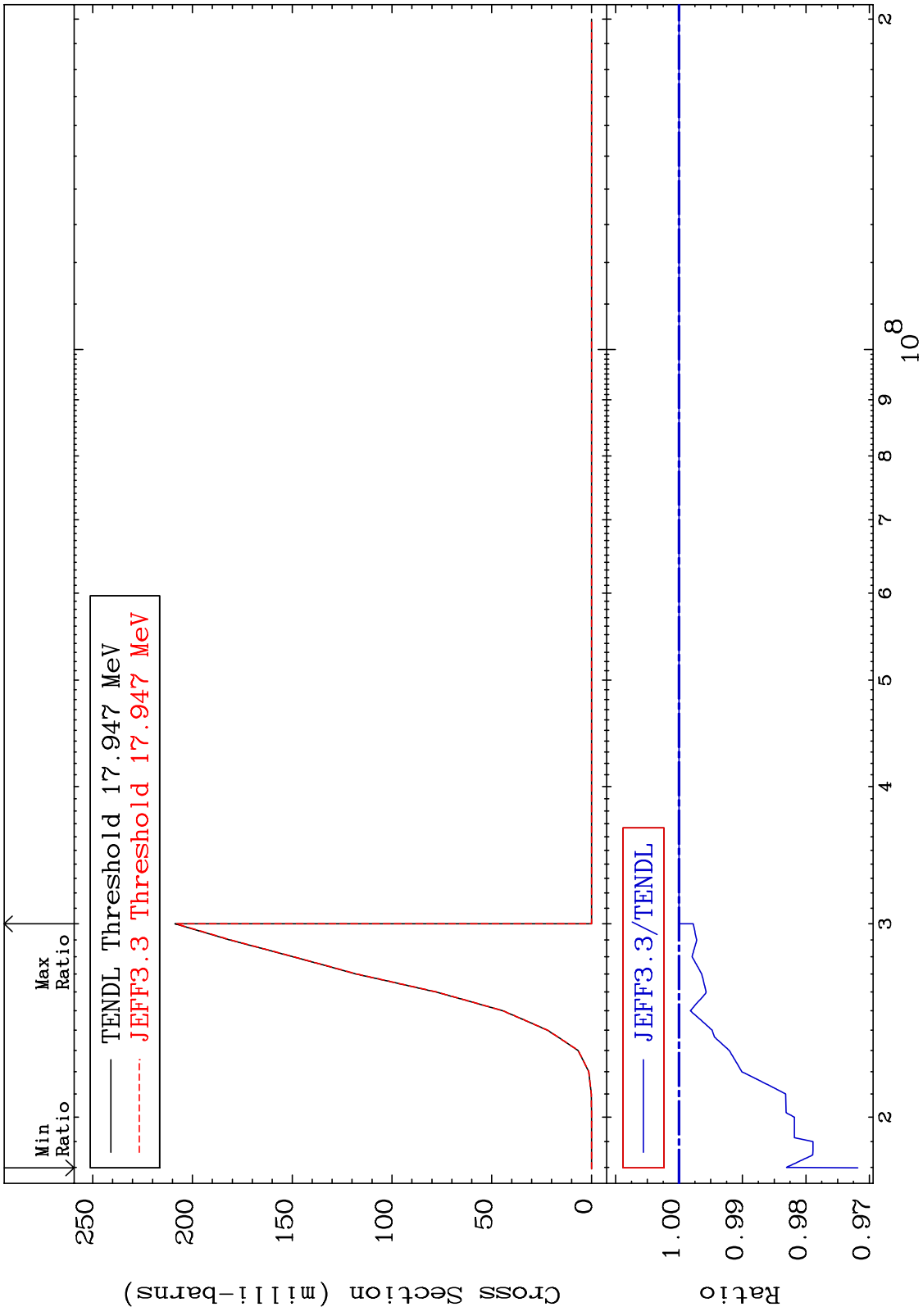
MAT 4431 (n, n') He-3 44-Ru-98
Cross Section -4.352 To 0.000 %



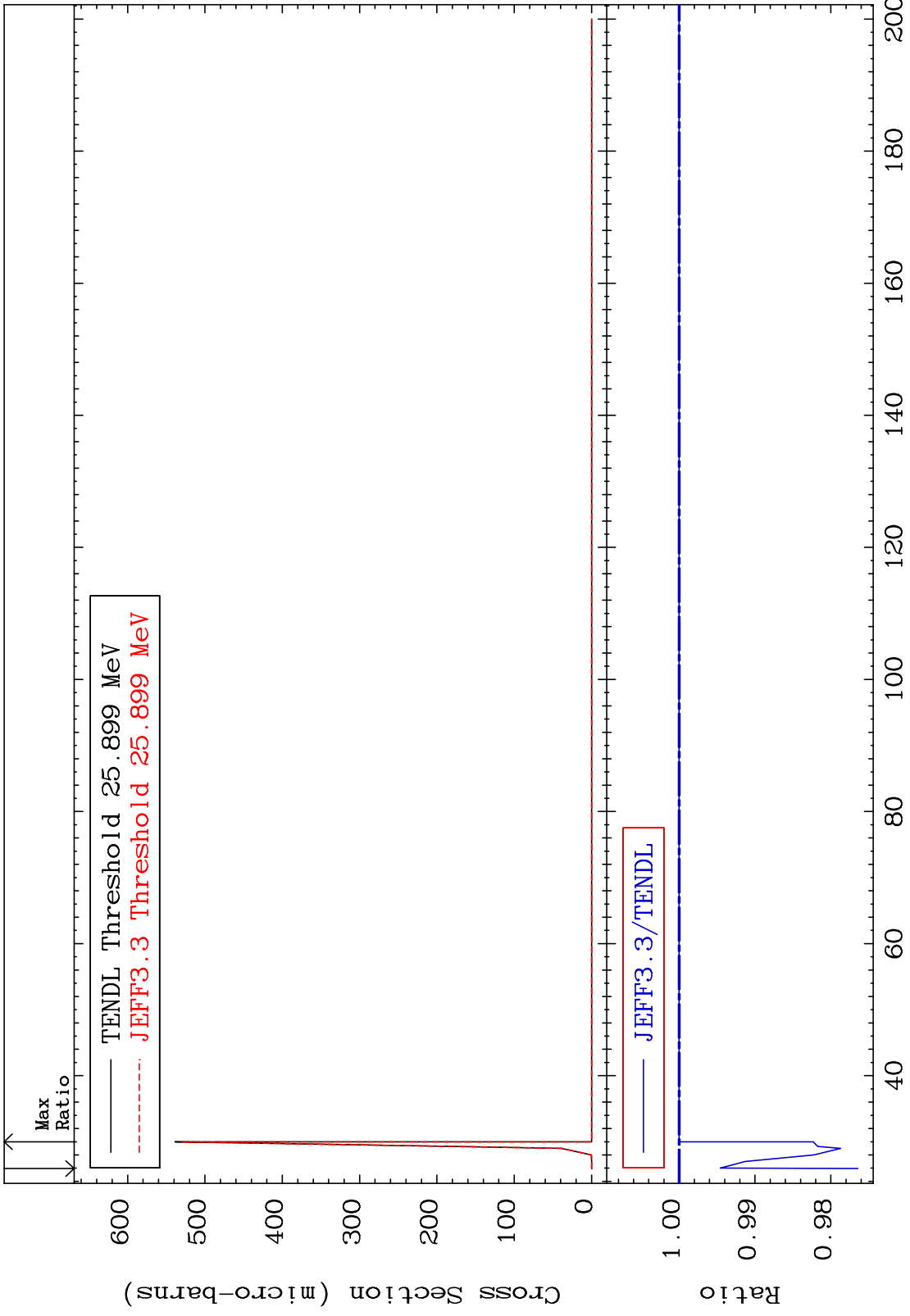
44-Ru-98

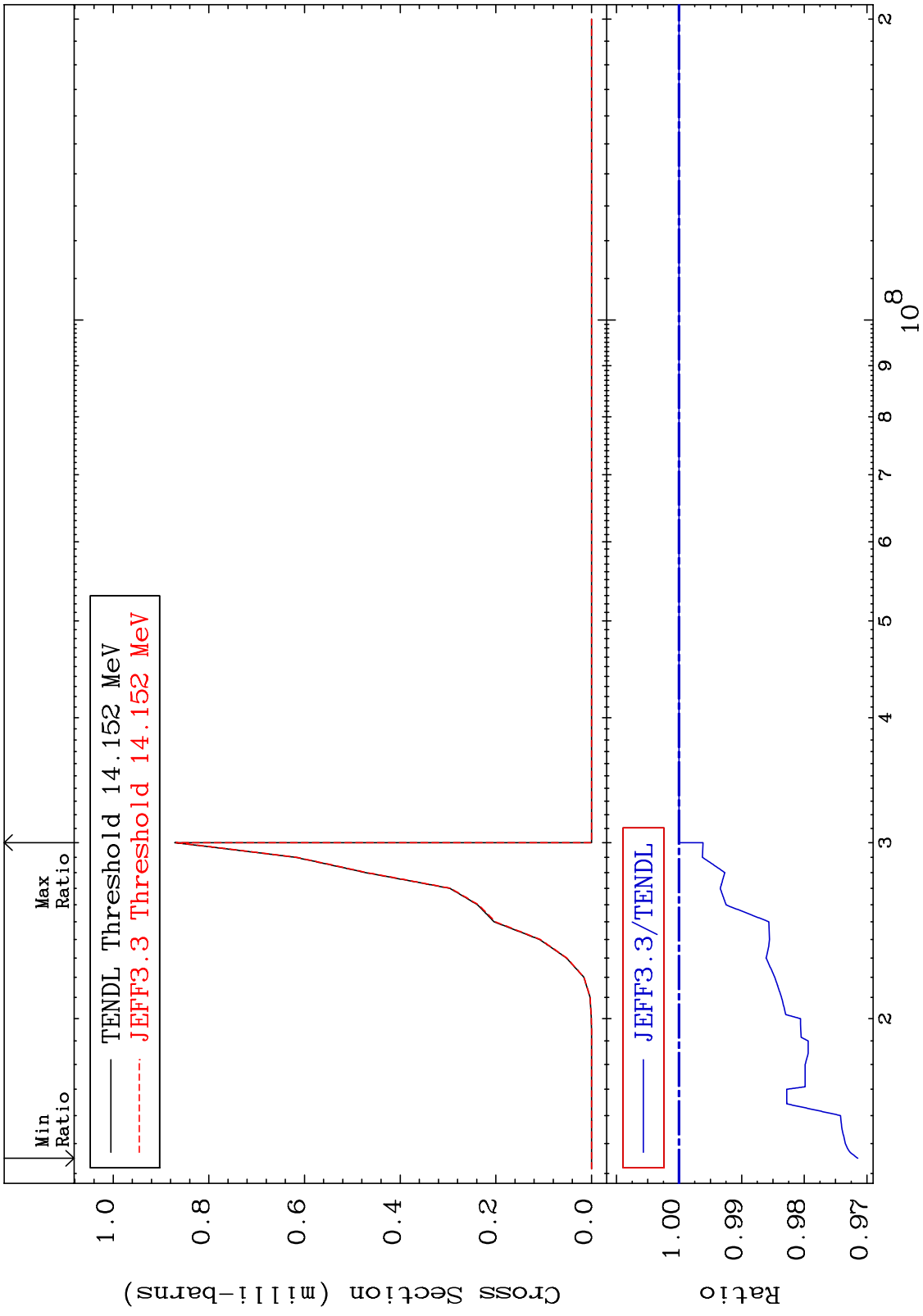
MAT 4431 (n,4n) Cross Section 44-Ru-98 -0.655 To 0.000 %



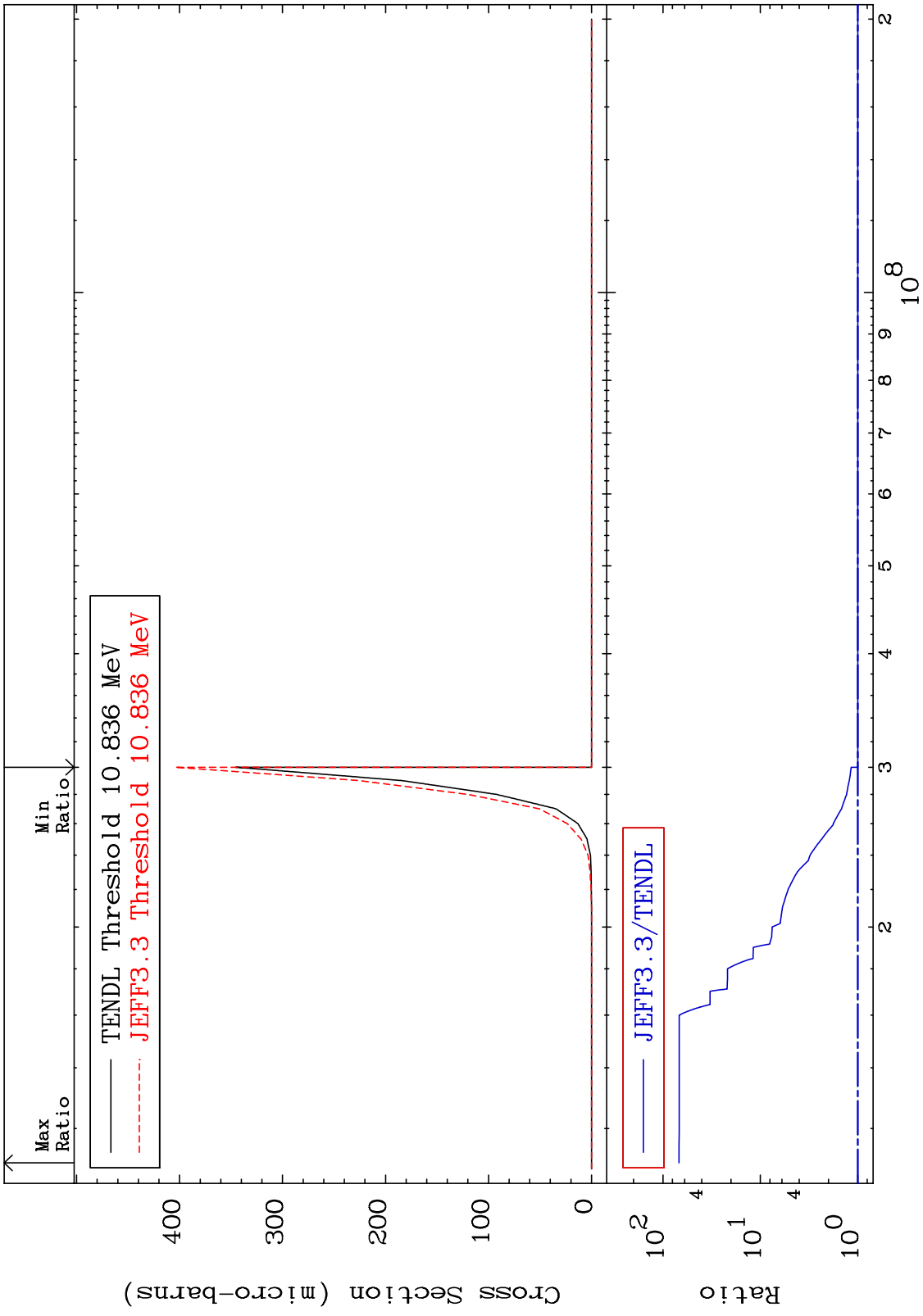


MAT 4431 (n,3n) p 44-Ru-98
 Cross Section -2.357 To 0.000 %

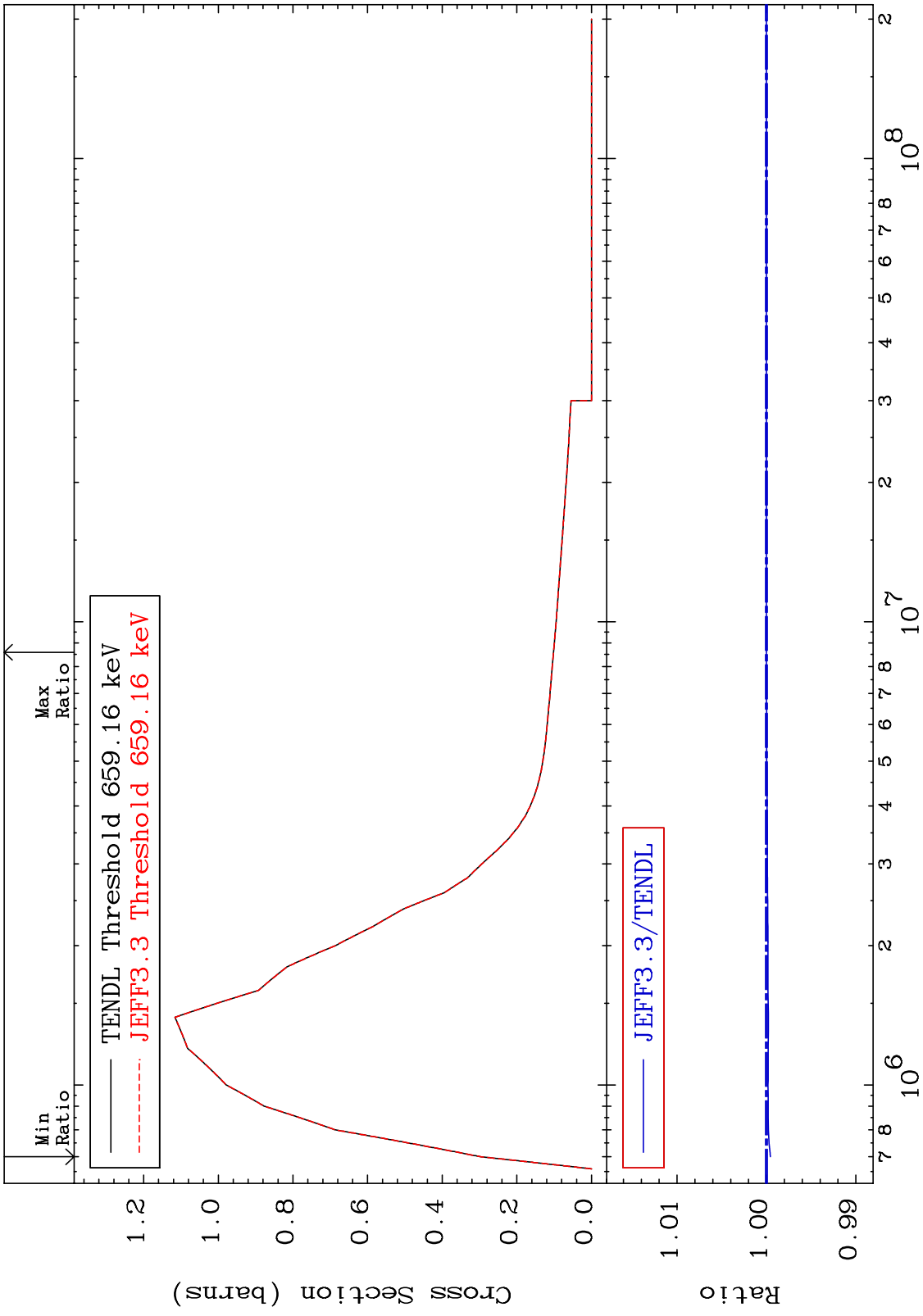




MAT 4431 (n,n') p α 44-Ru-98
 Cross Section 0.000 To 6736. %



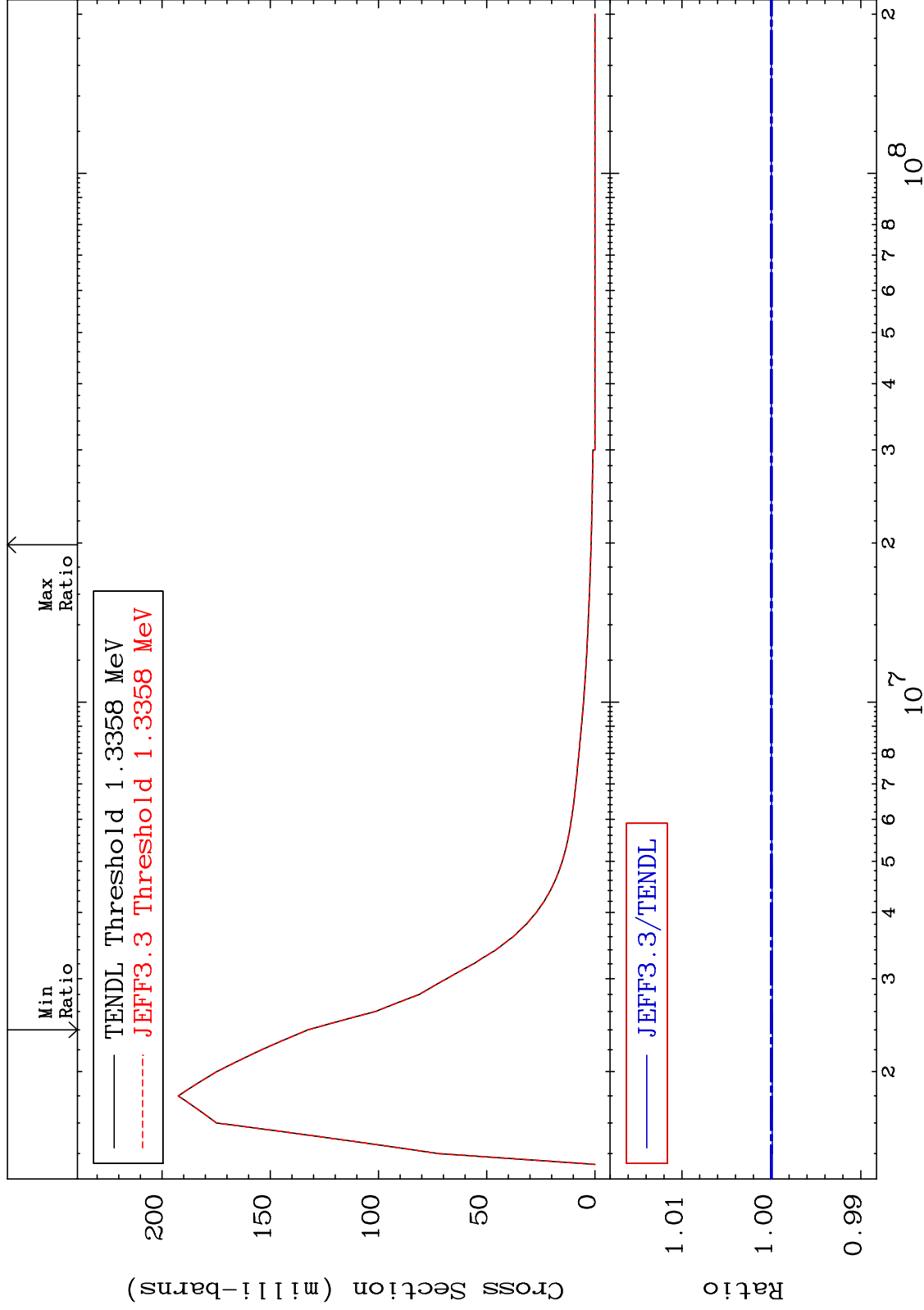
MAT 4431 MT= 51 (n,n') Level 44-Ru-98
 Cross Section -0.044 To 0.000 %



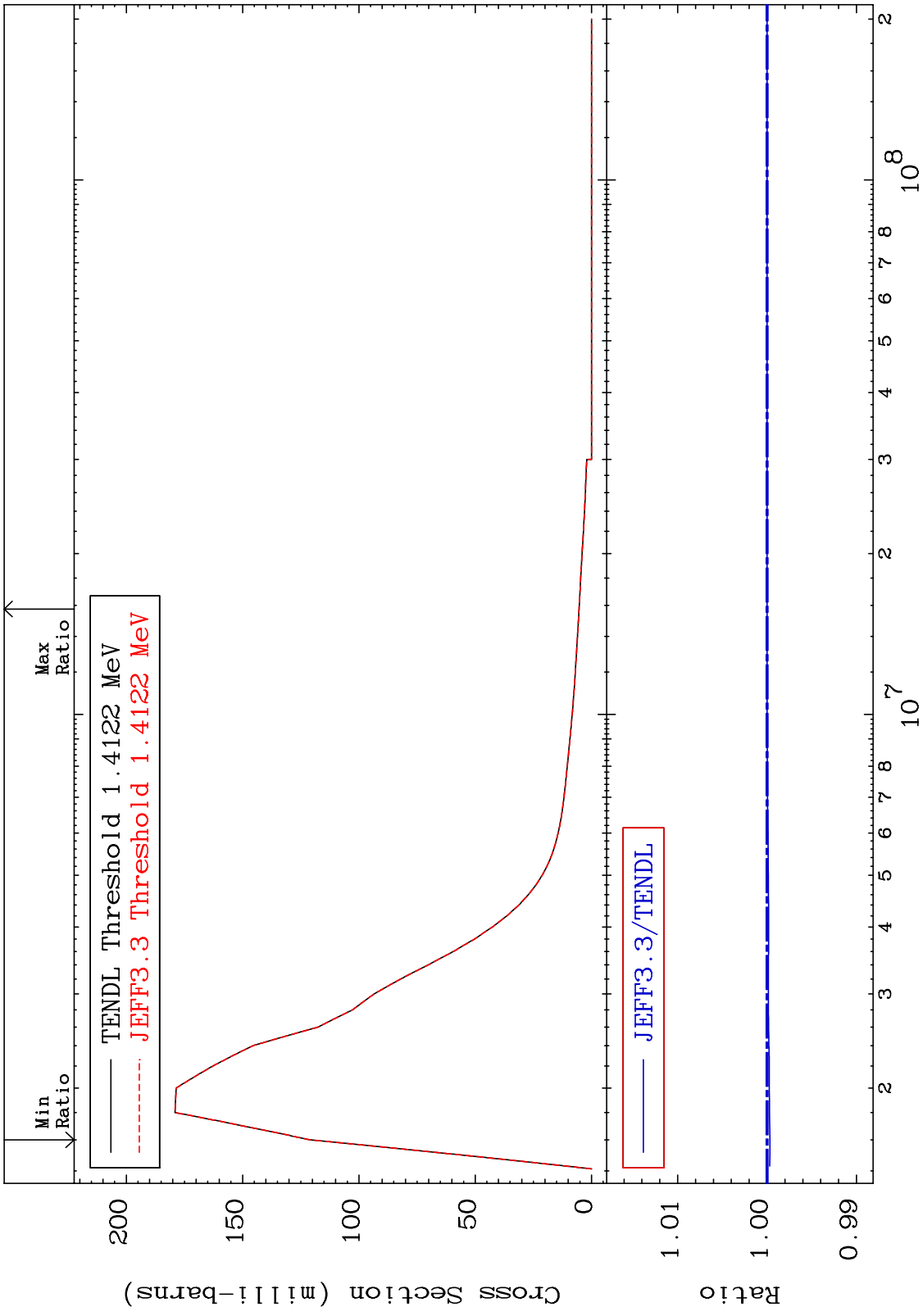
MAT 4431

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

44-Ru-98
-0.013 To 0.000 %



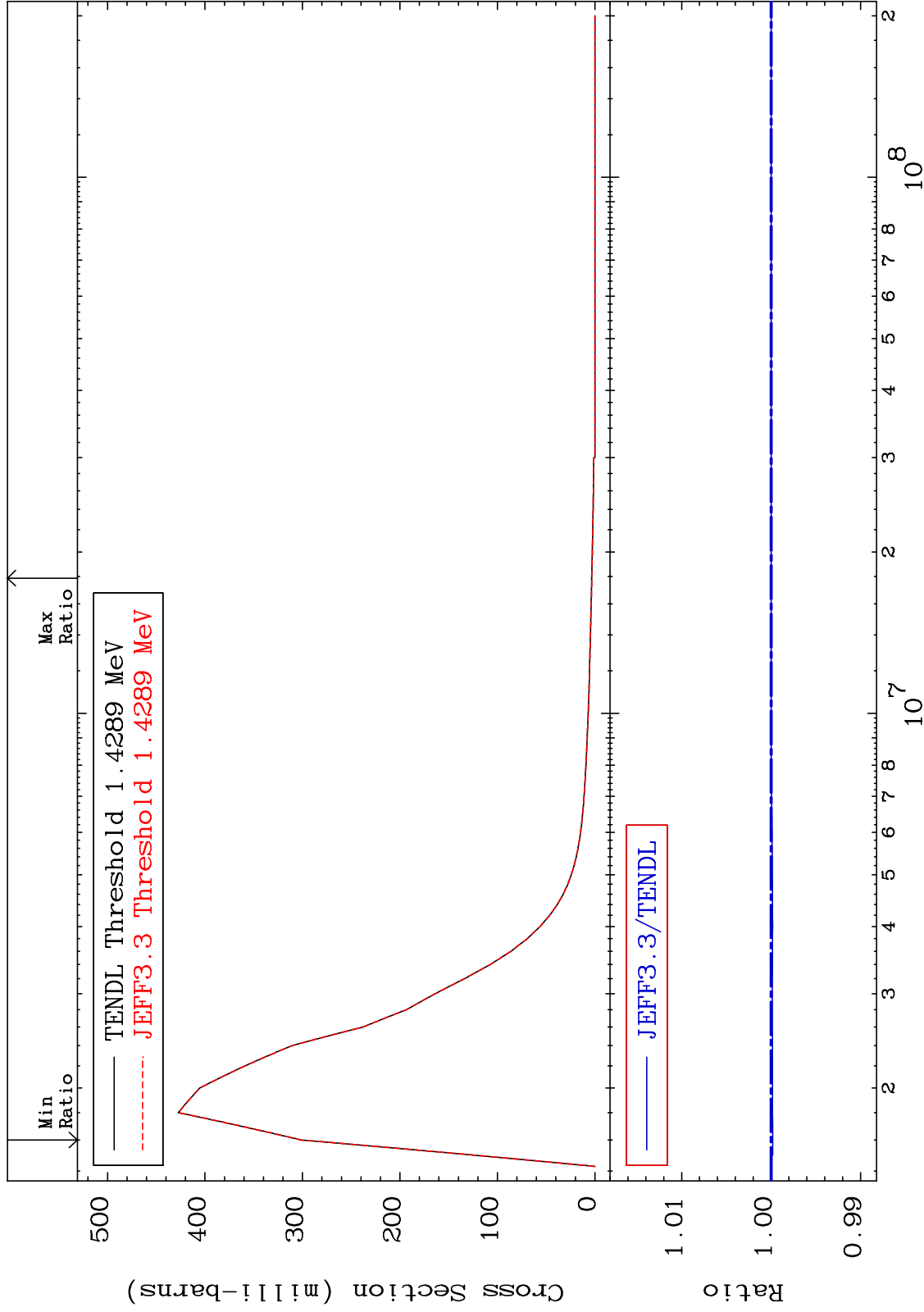
MAT 4431 MT= 53 (n,n') Level Cross Section 44-Ru-98
 -0.031 To 0.000 %



MAT 4431

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

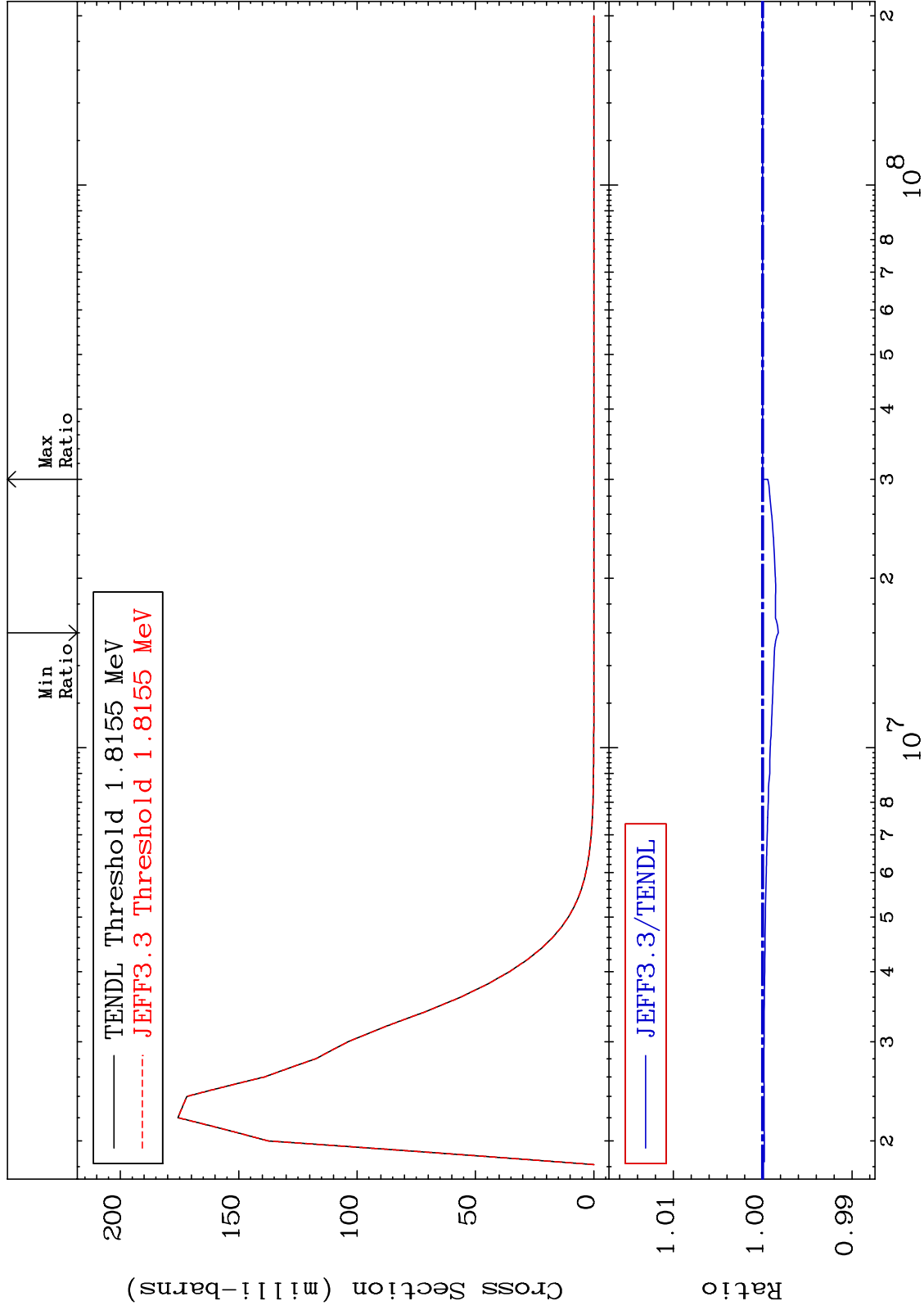
44-Ru-98
-0.018 To 0.000 %



MAT 4431

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

44-Ru-98
-0.176 To 0.000 %



24

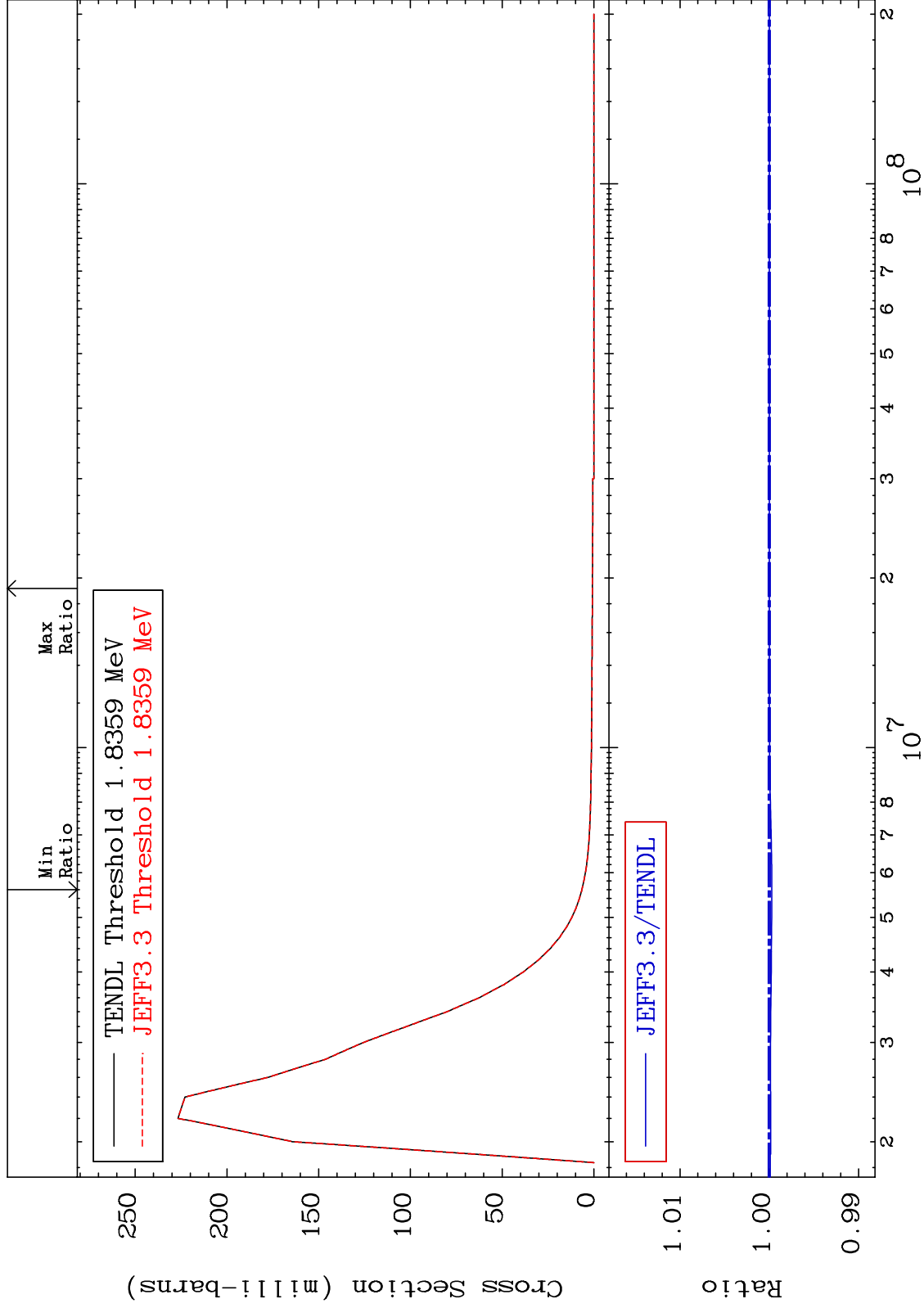
44-Ru-98

44-Ru-98

MAT 4431

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

44-Ru-98
-0.028 To 0.000 %



25

Incident Energy (eV)

44-Ru-98

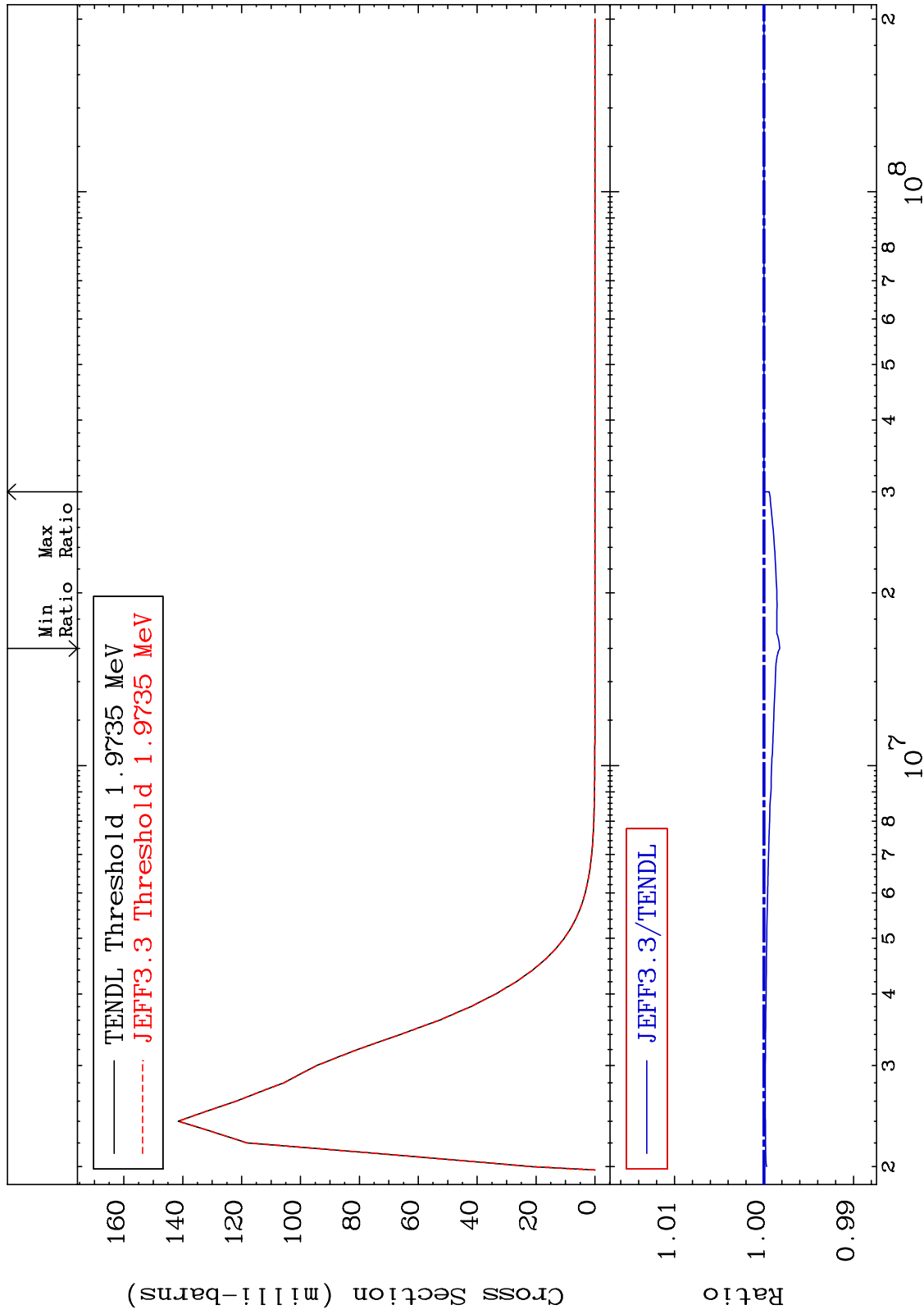
MAT 4431

MT= 57 (n,n') Level

44-Ru-98

-0.176 To 0.000 %

Cross Section



26

Incident Energy (eV)

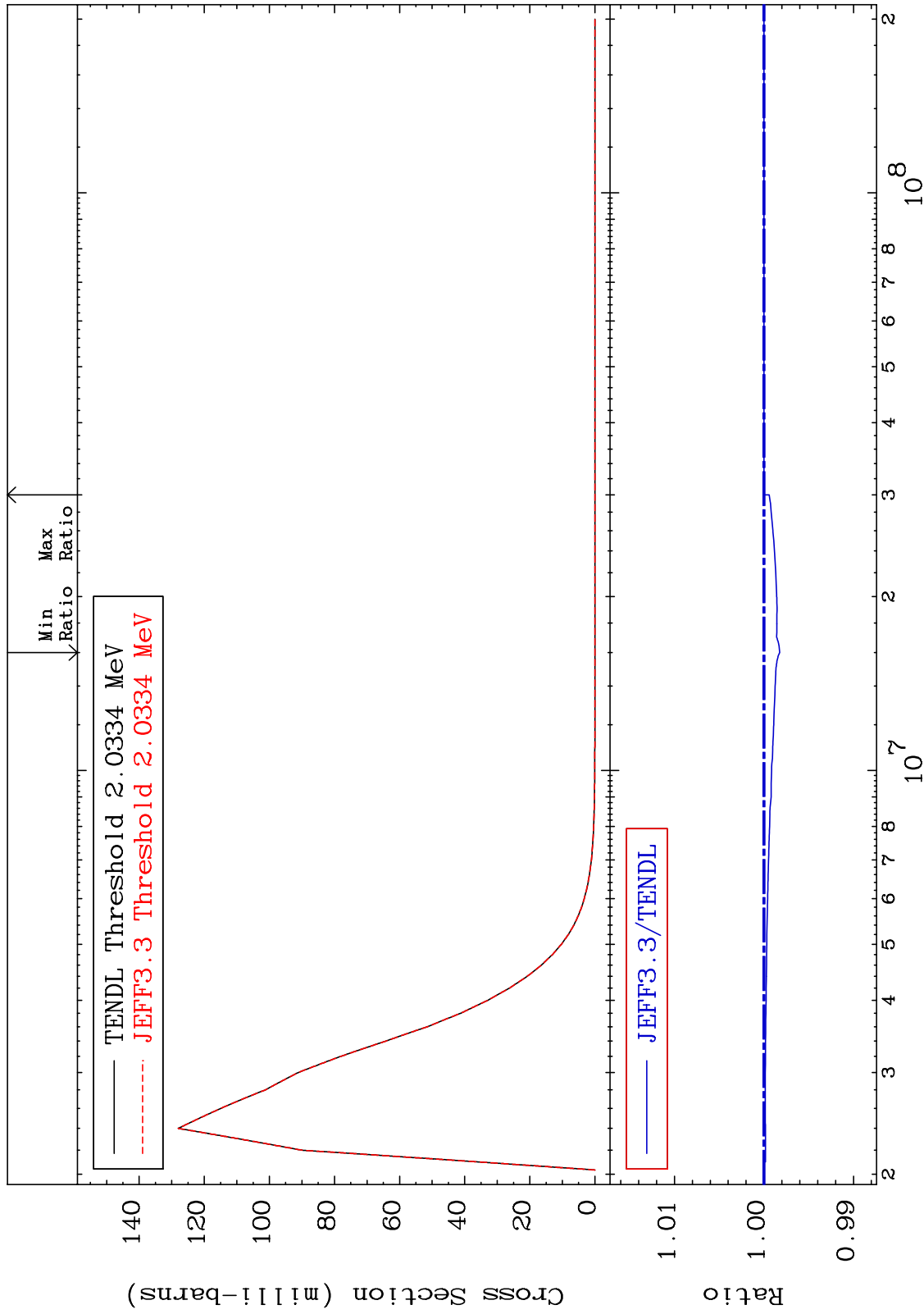
44-Ru-98

MAT 4431

MT= 58 (n,n') Level

44-Ru-98

-0.176 To 0.000 %

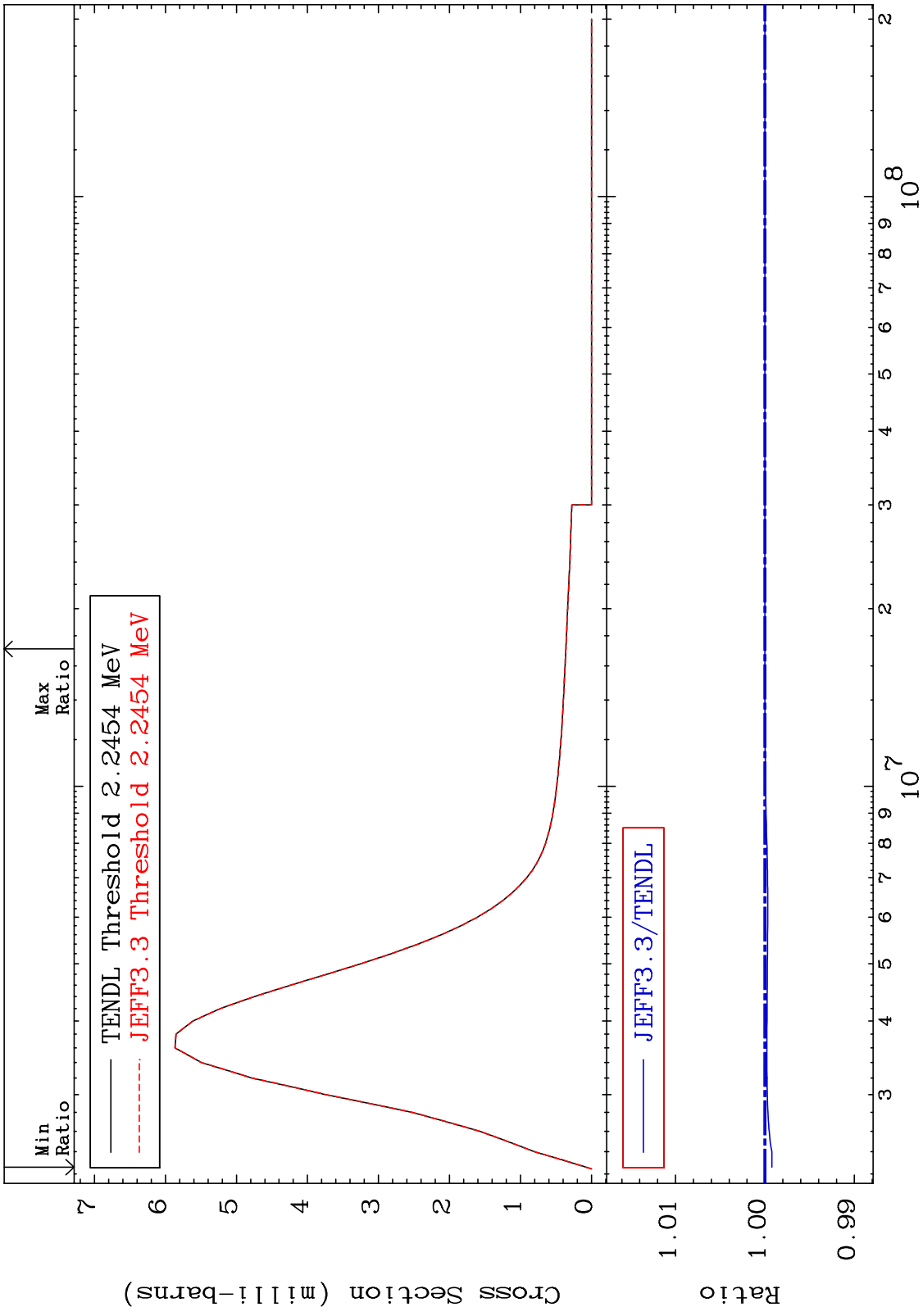


27

Incident Energy (eV)

44-Ru-98

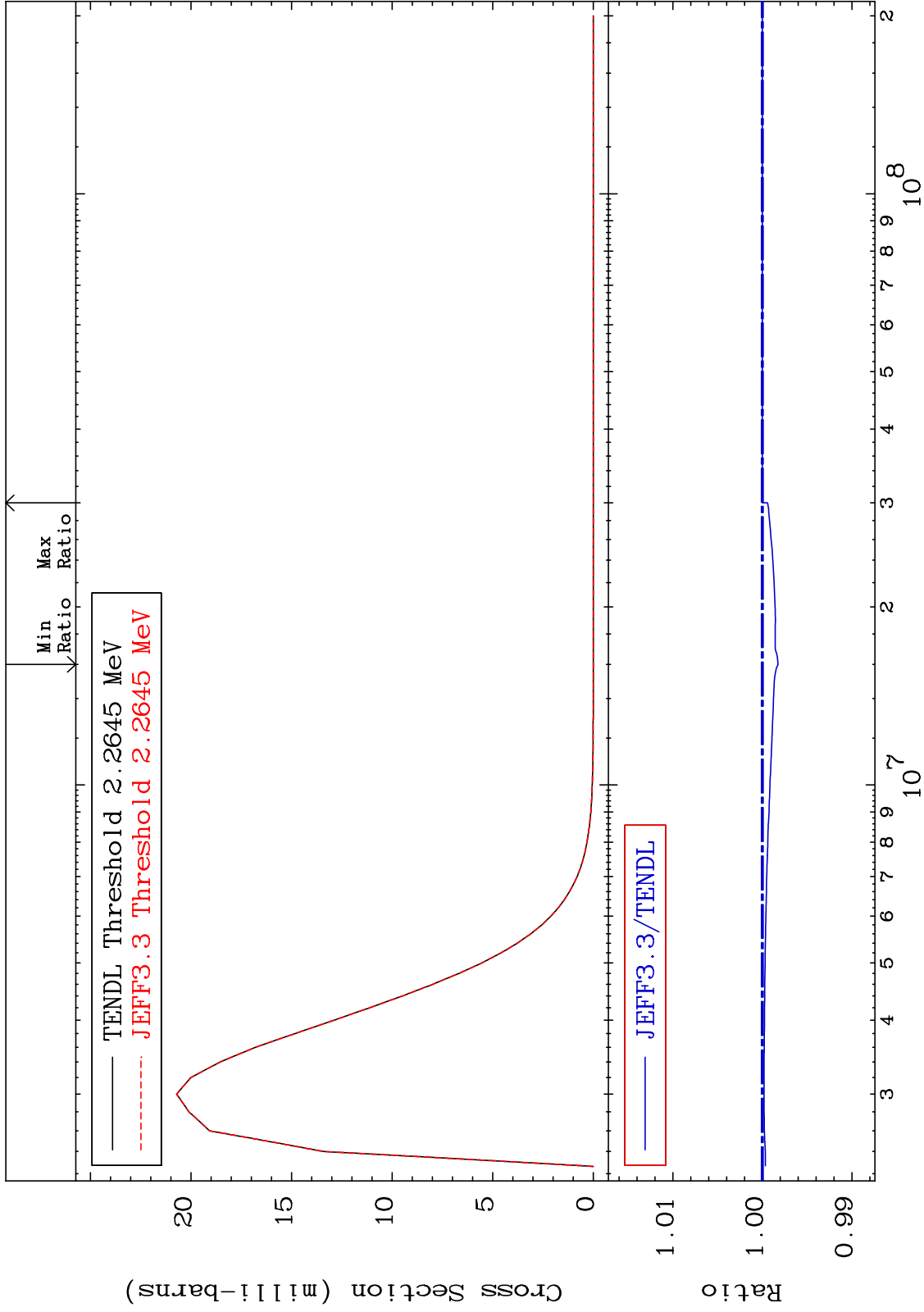
MAT 4431 MT= 59 (n,n') Level Cross Section 44-Ru-98
 -0.078 To 0.000 %



MAT 4431

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

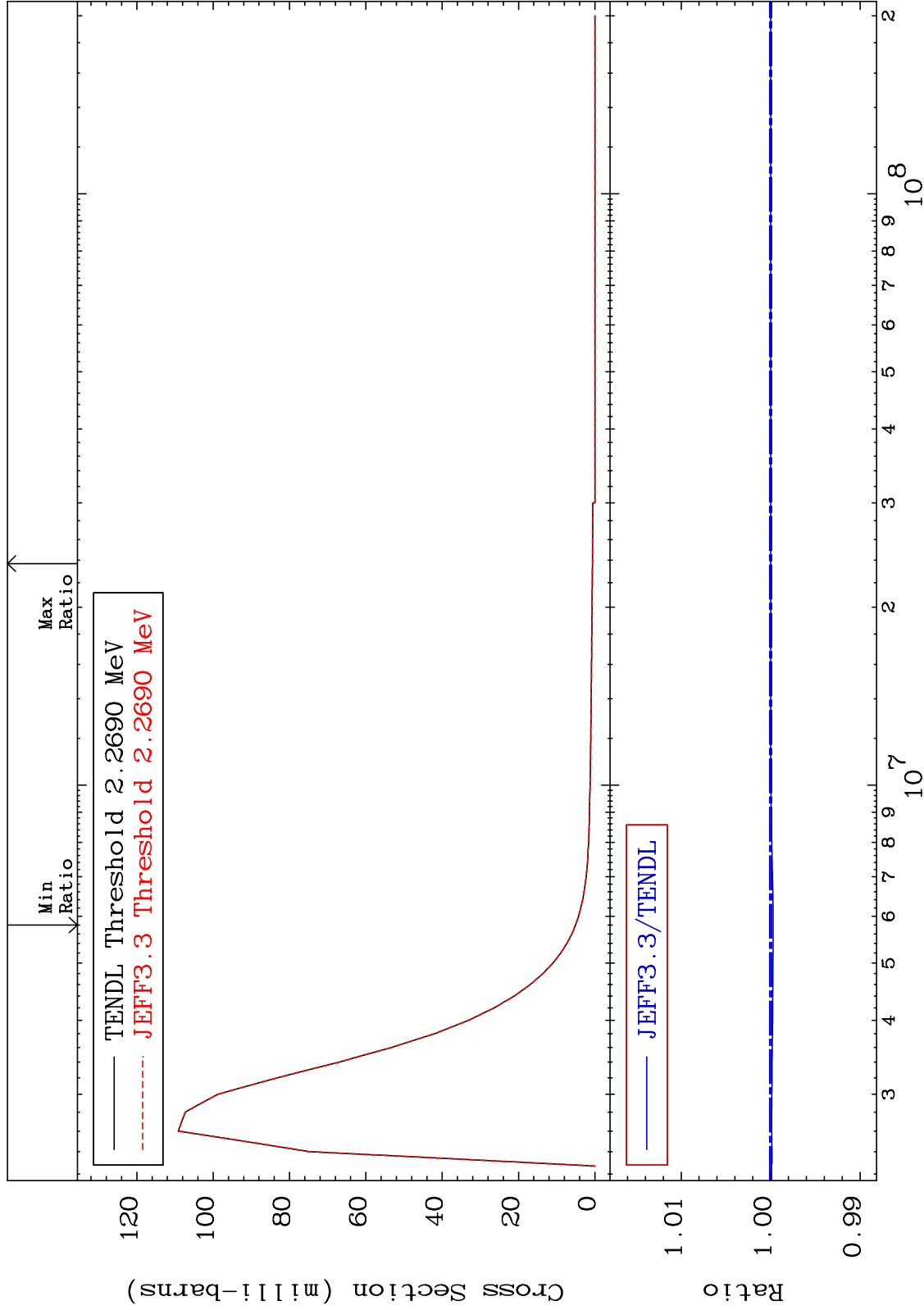
44-Ru-98
-0.175 To 0.000 %



MAT 4431

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

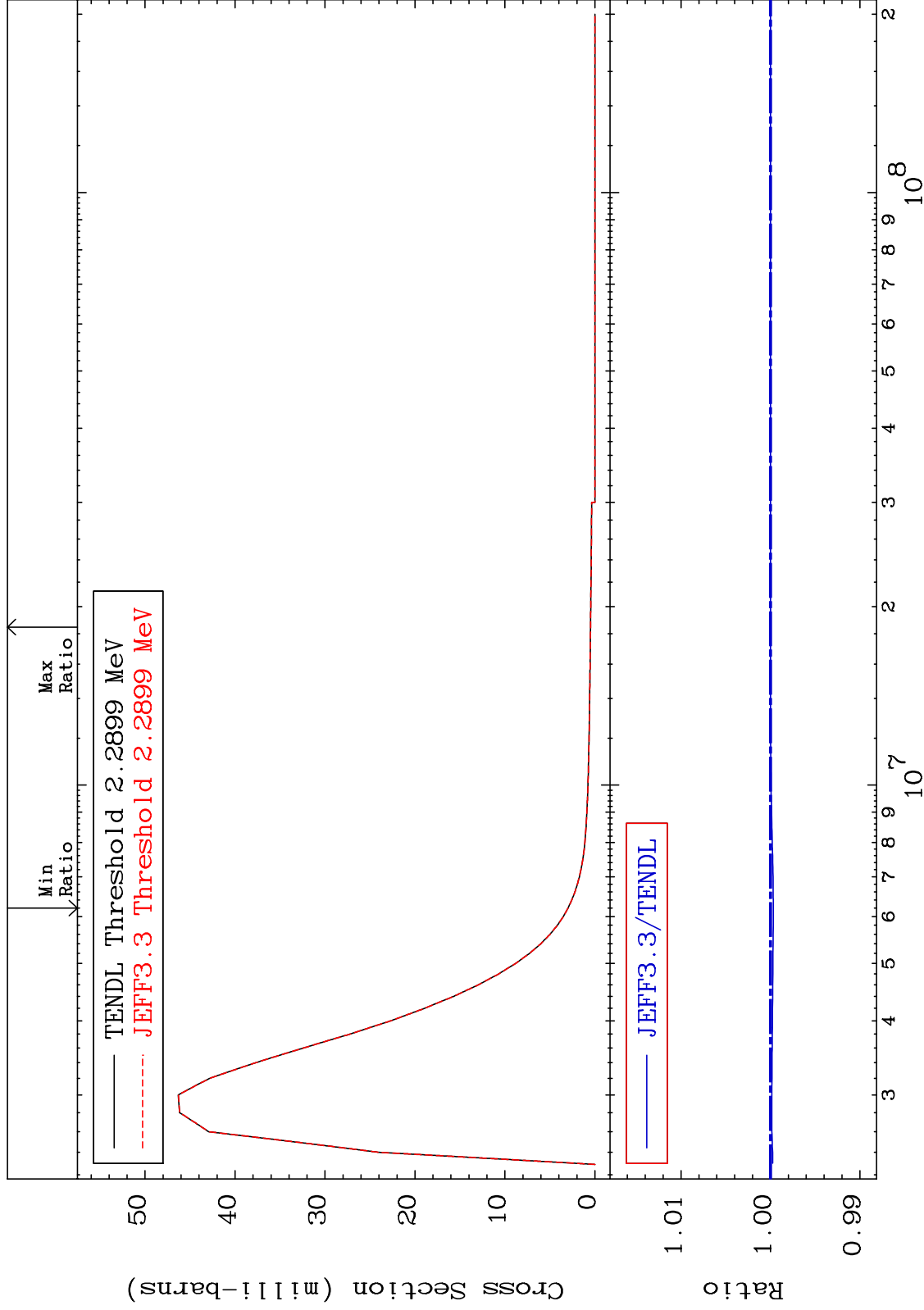
44-Ru-98
-0.028 To 0.000 %



MAT 4431

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

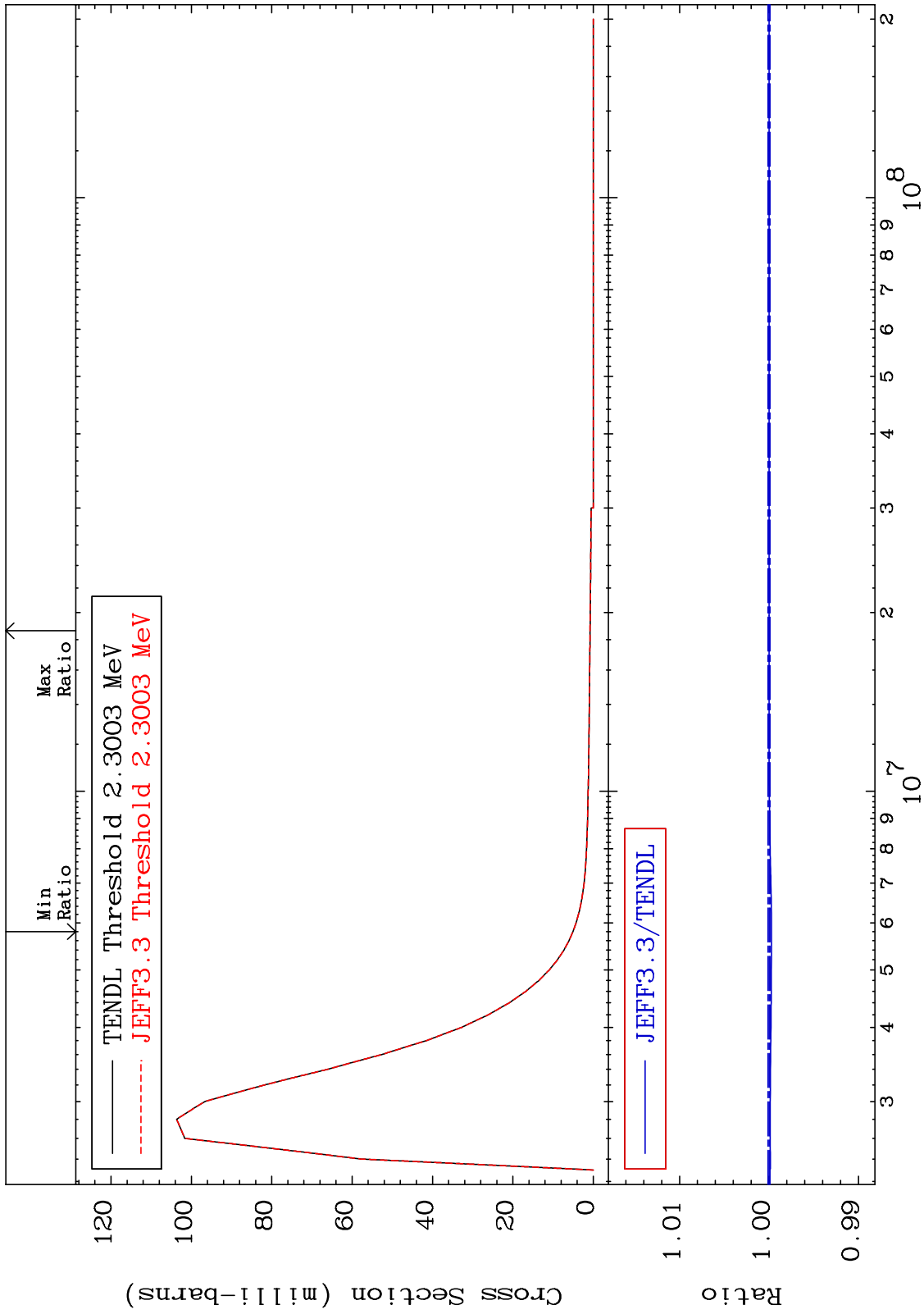
44-Ru-98
-0.032 To 0.000 %



MAT 4431

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

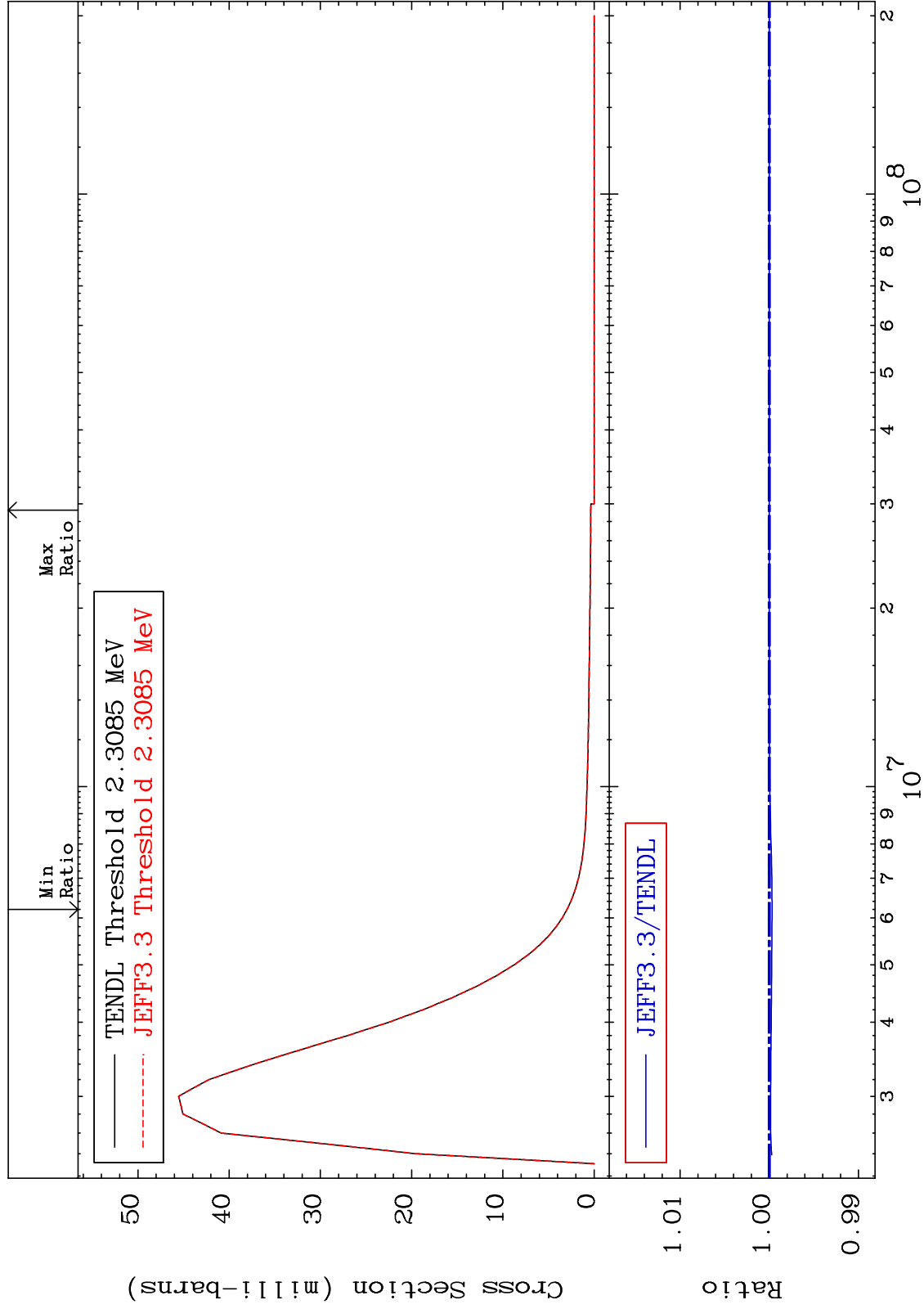
44-Ru-98
-0.028 To 0.000 %



MAT 4431

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

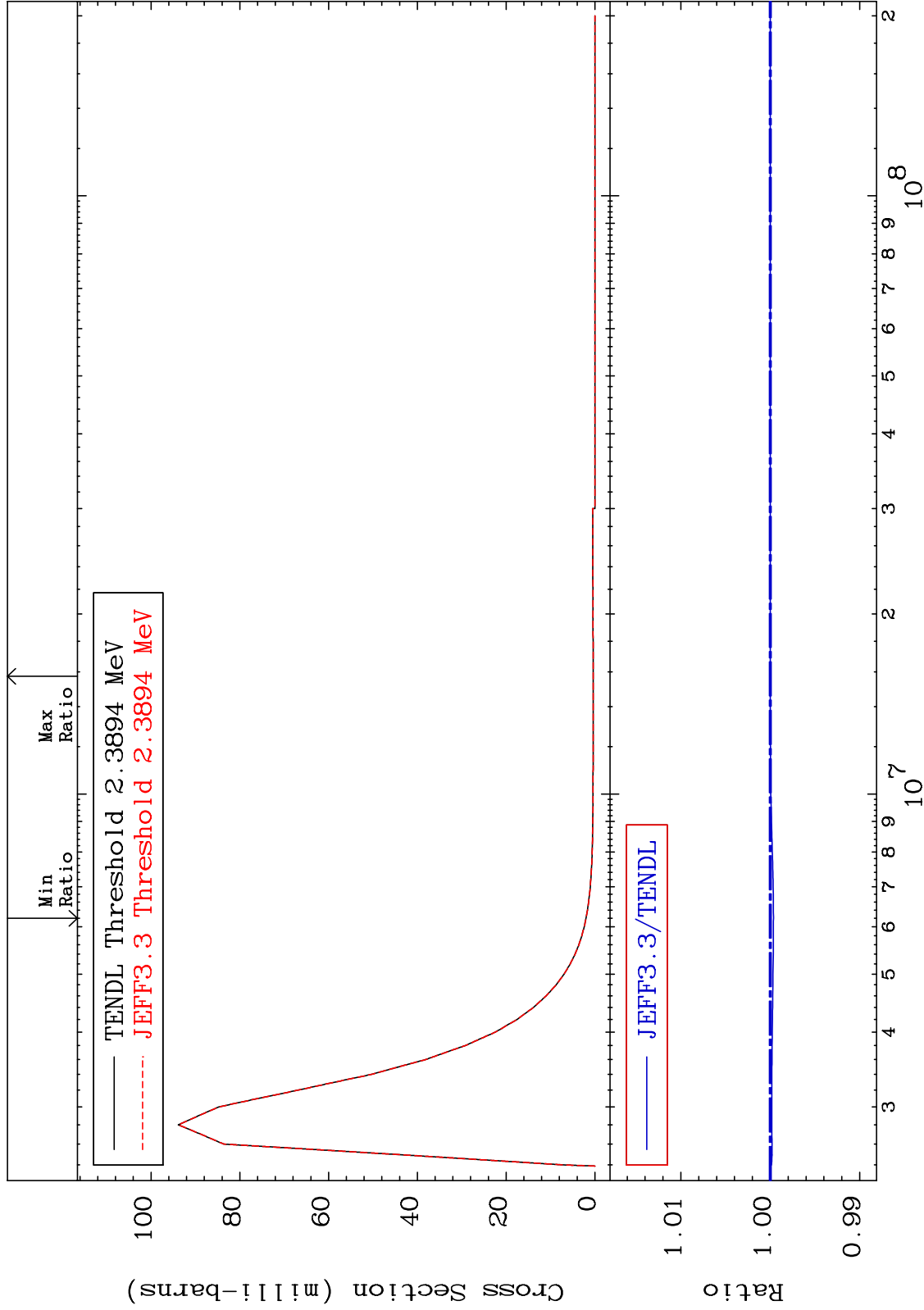
44-Ru-98
-0.032 To 0.000 %



MAT 4431

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

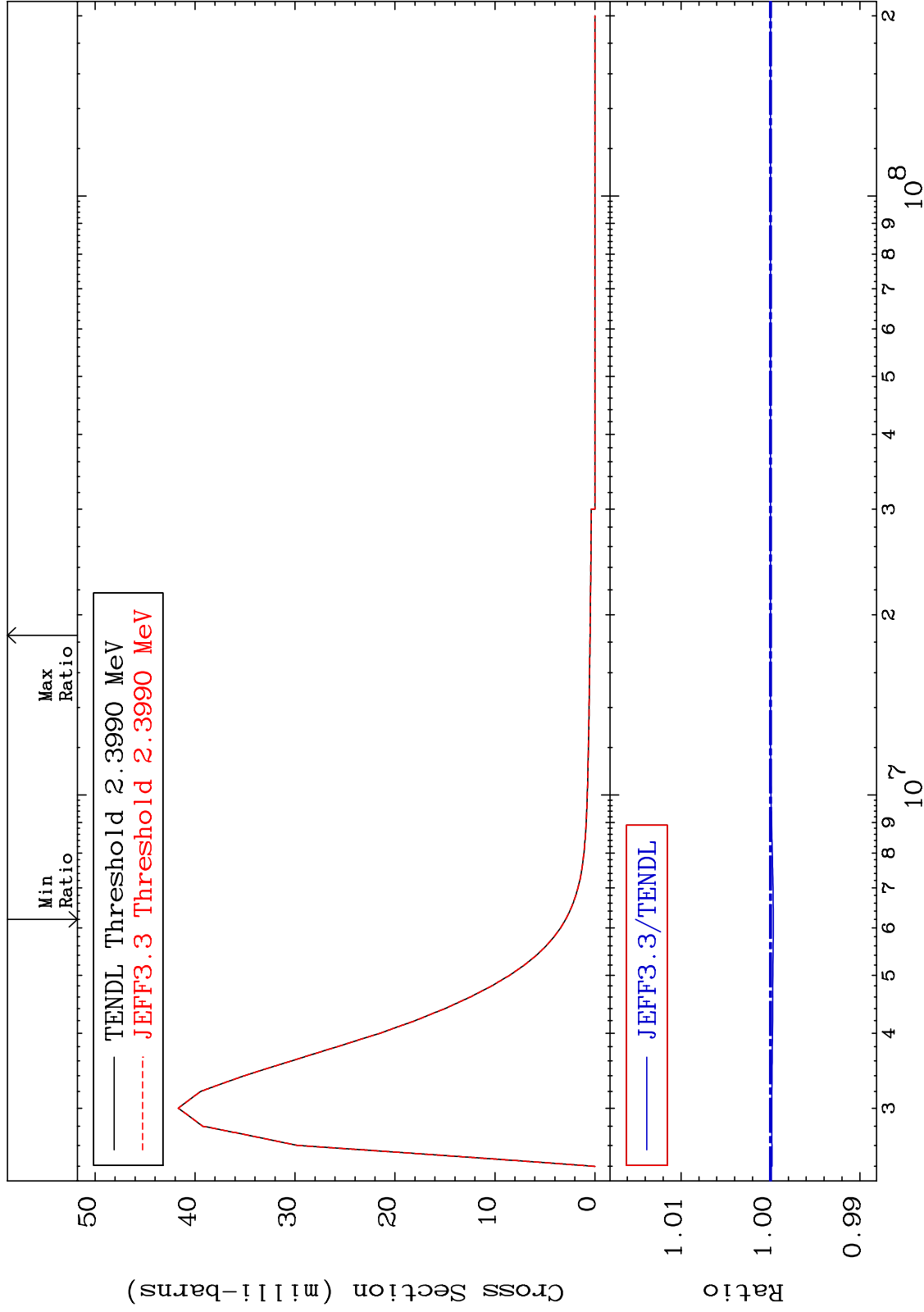
44-Ru-98
-0.036 To 0.000 %



MAT 4431

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

44-Ru-98
-0.032 To 0.000 %

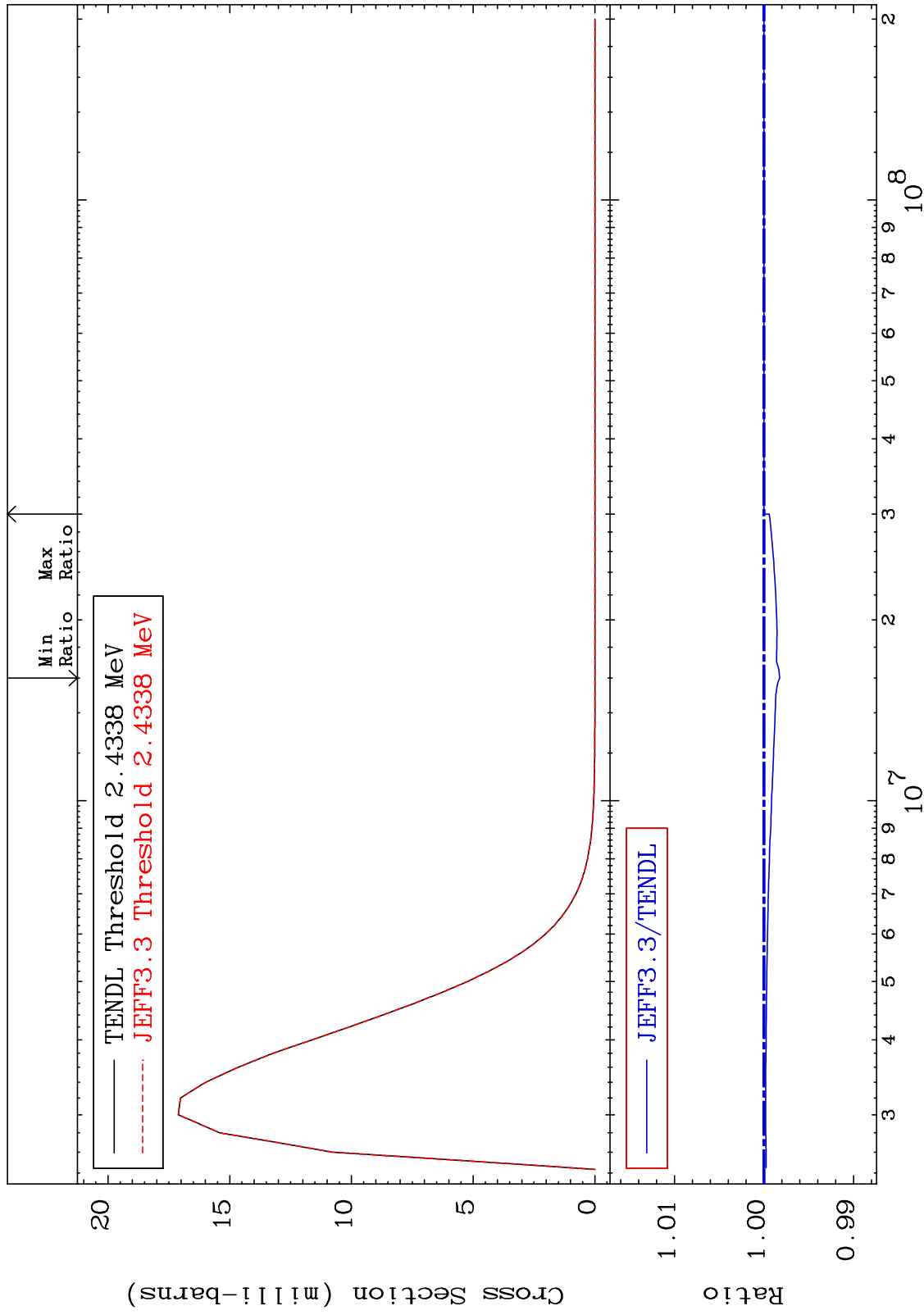


MAT 4431

MT= 67 (n, n') Level

44-Ru-98

-0.176 To 0.000 %



36

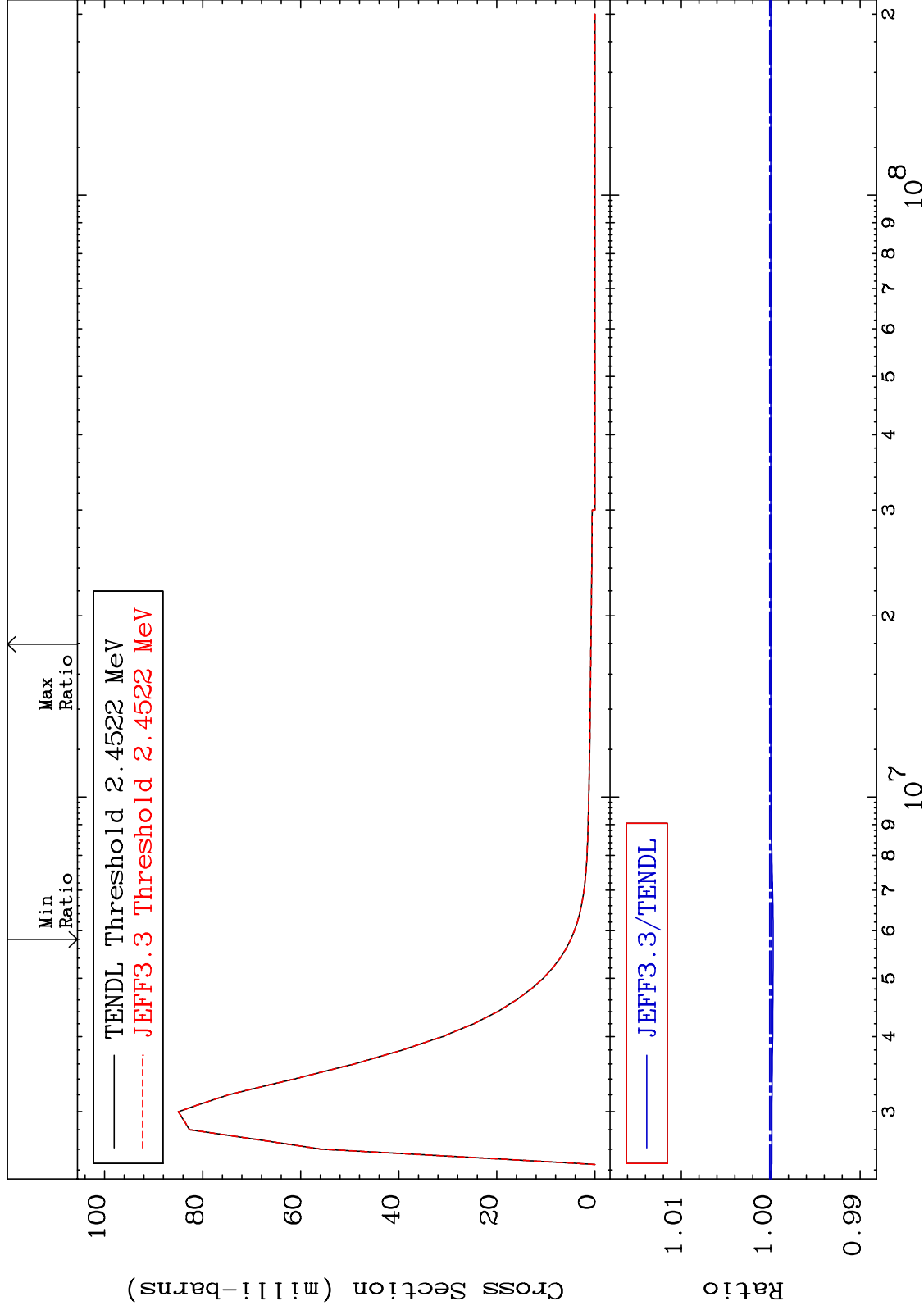
Incident Energy (eV)

44-Ru-98

MAT 4431

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

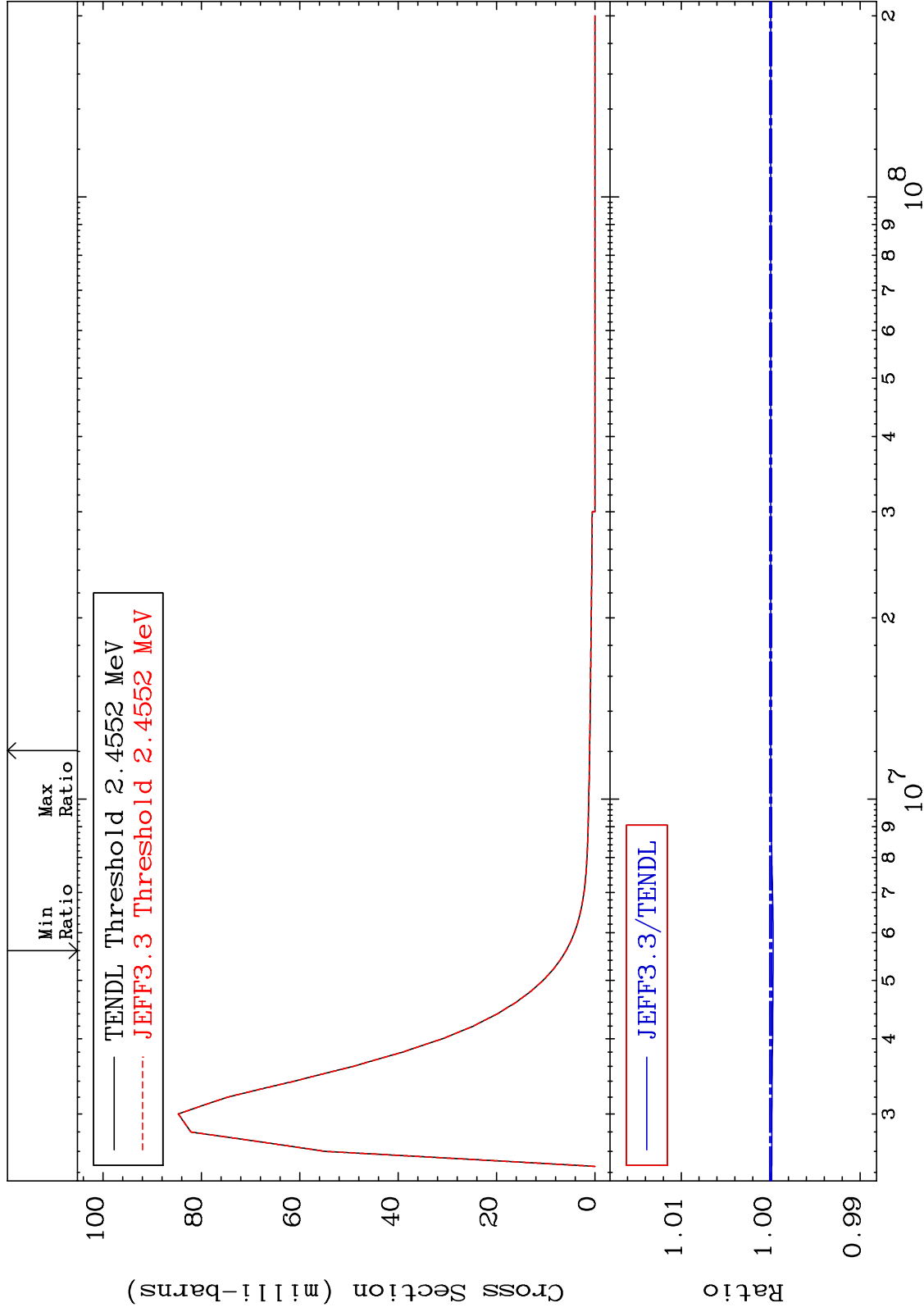
44-Ru-98
-0.028 To 0.000 %



MAT 4431

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

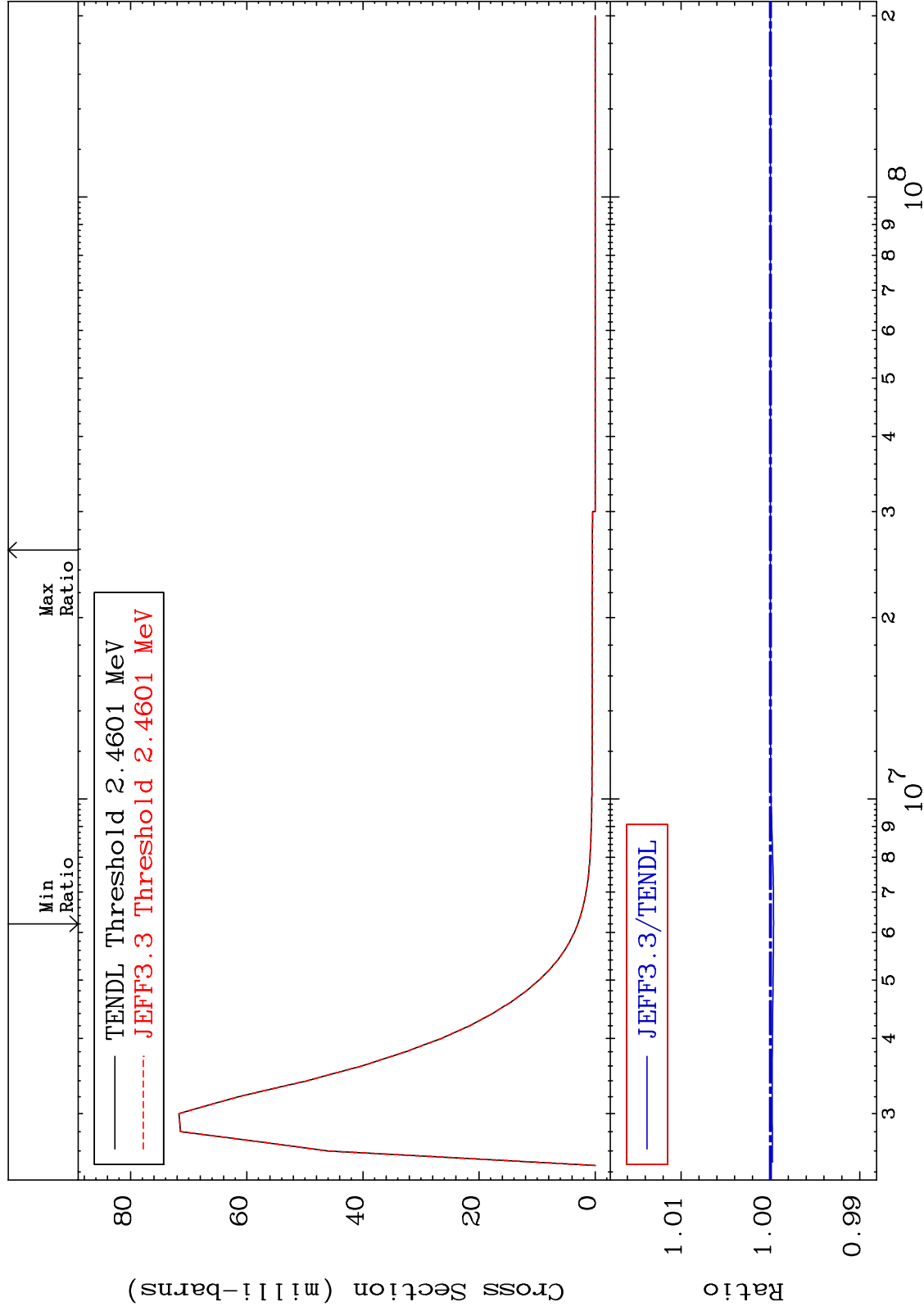
44-Ru-98
-0.028 To 0.000 %



MAT 4431

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

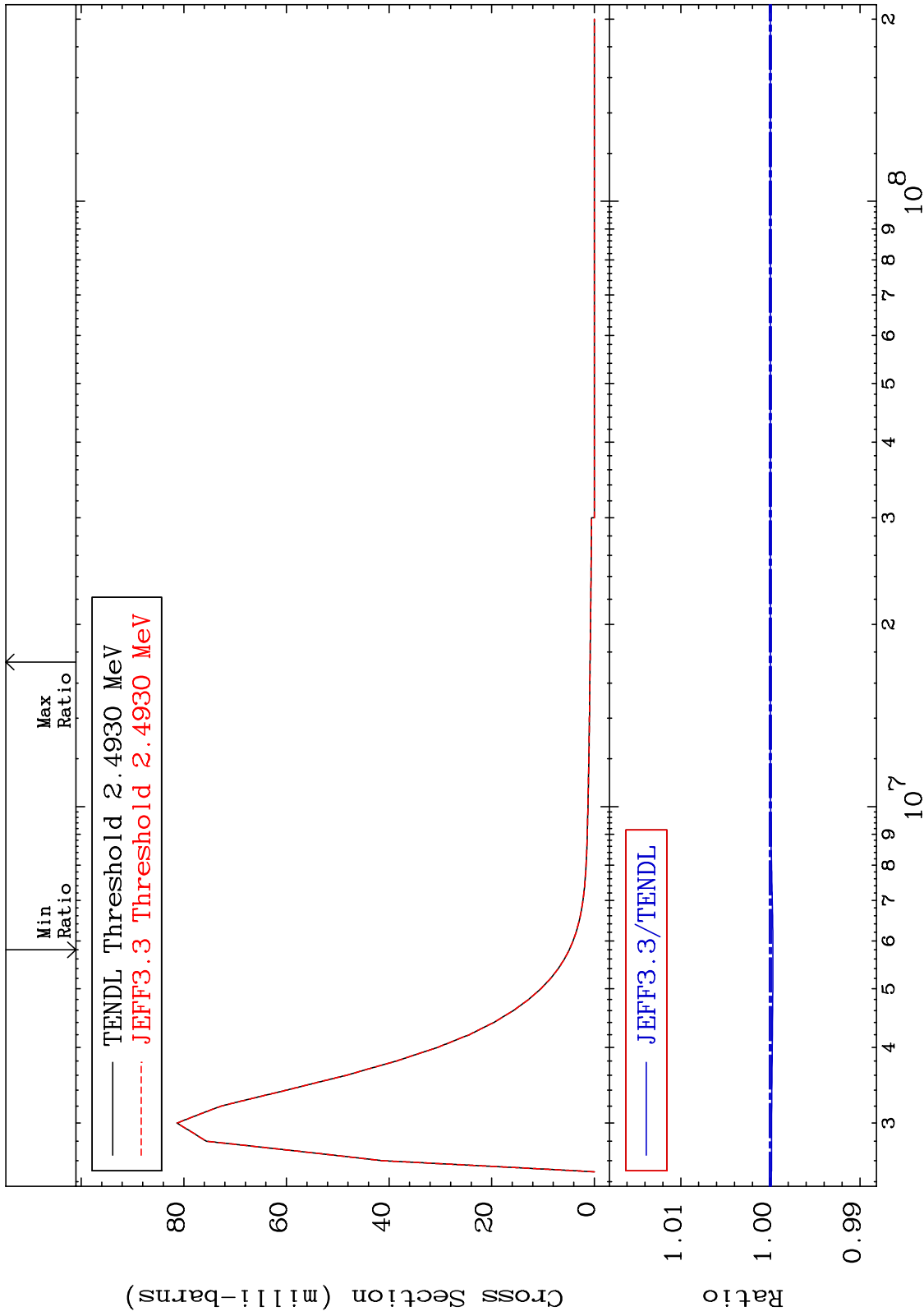
44-Ru-98
-0.036 To 0.000 %



MAT 4431

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

44-Ru-98
-0.028 To 0.000 %



40

Incident Energy (eV)

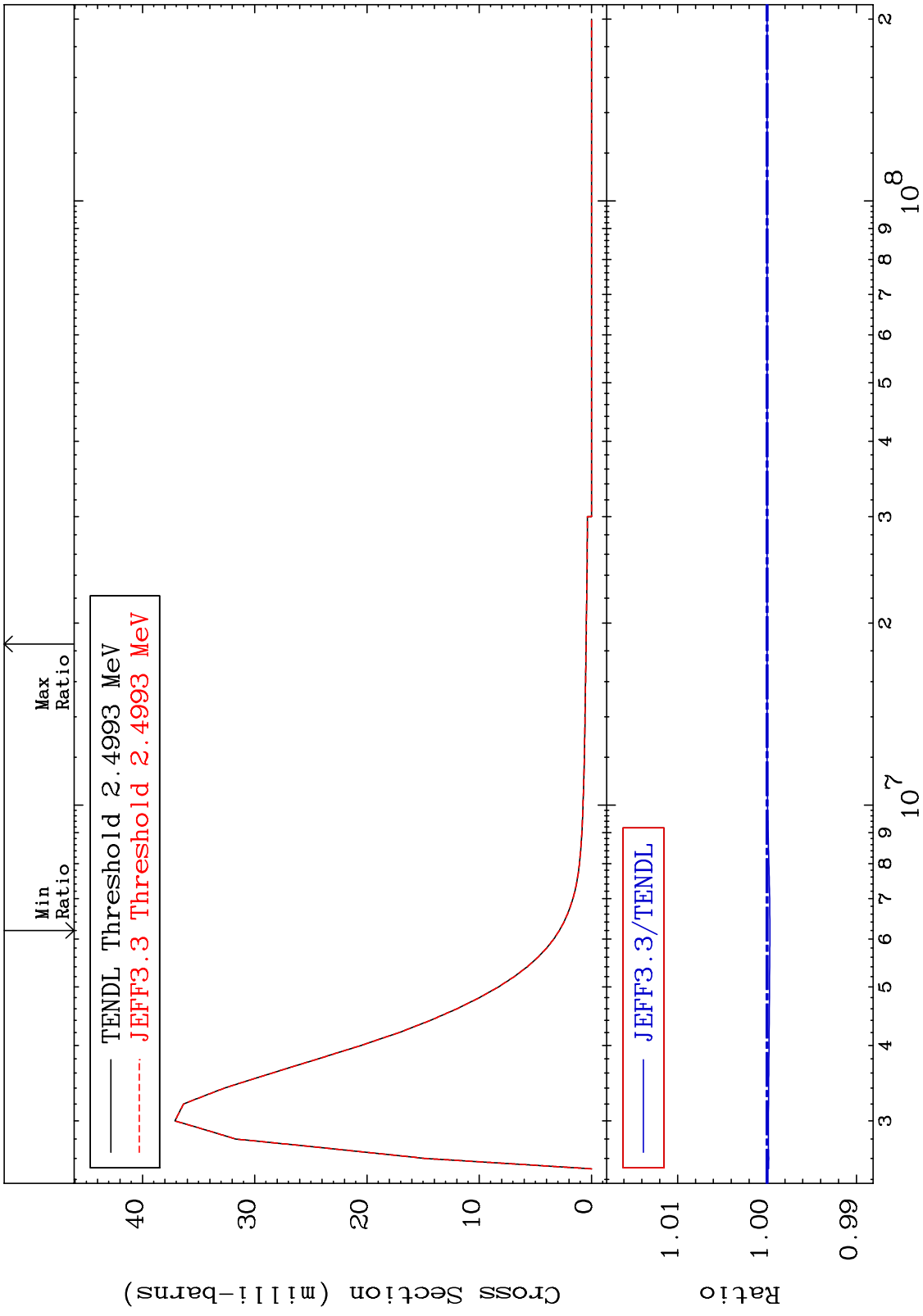
44-Ru-98

MAT 4431

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

44-Ru-98

-0.032 To 0.000 %



44-Ru-98

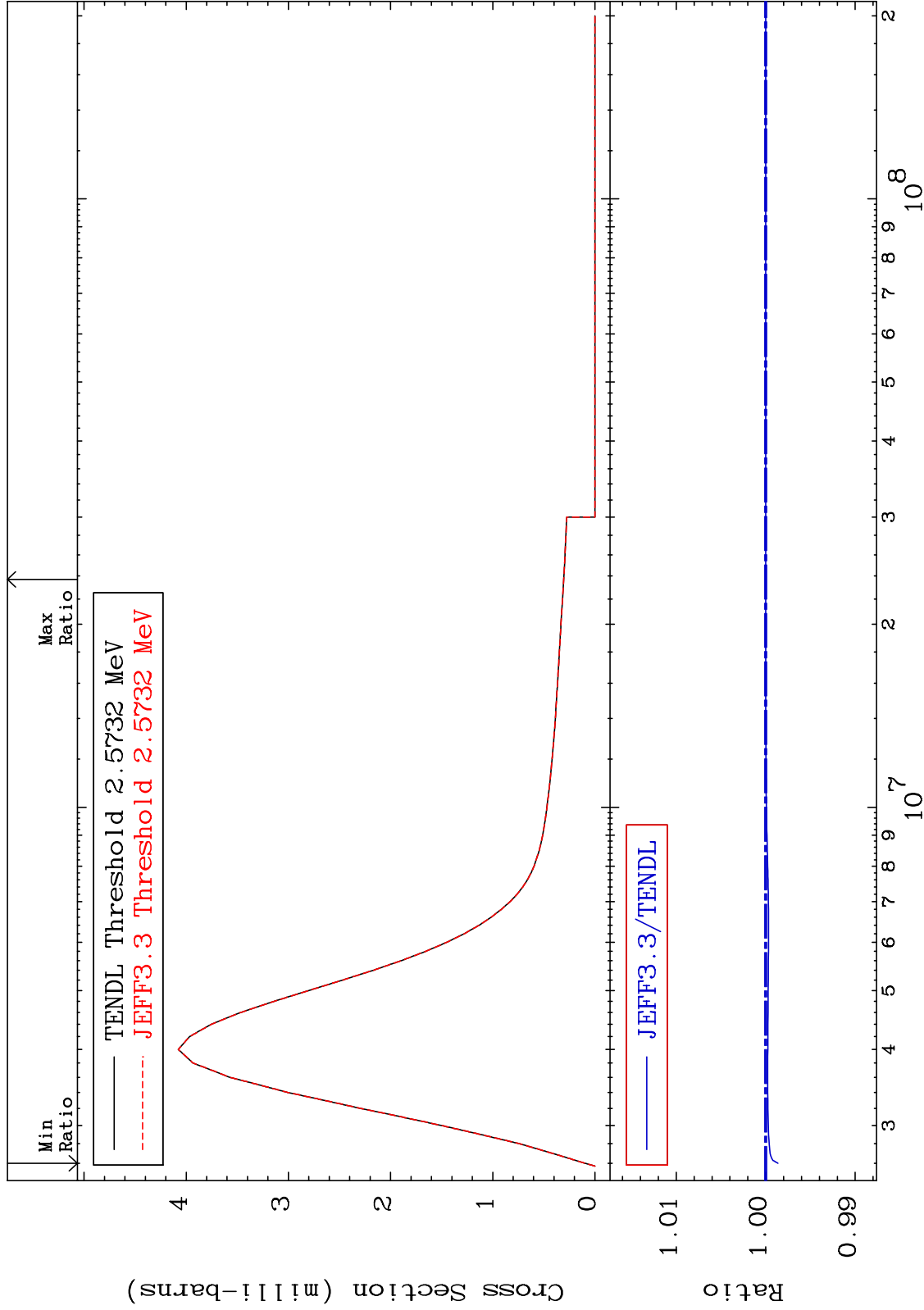
Incident Energy (eV)

41

MAT 4431

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

44-Ru-98
-0.137 To 0.000 %



42

Incident Energy (eV)

44-Ru-98

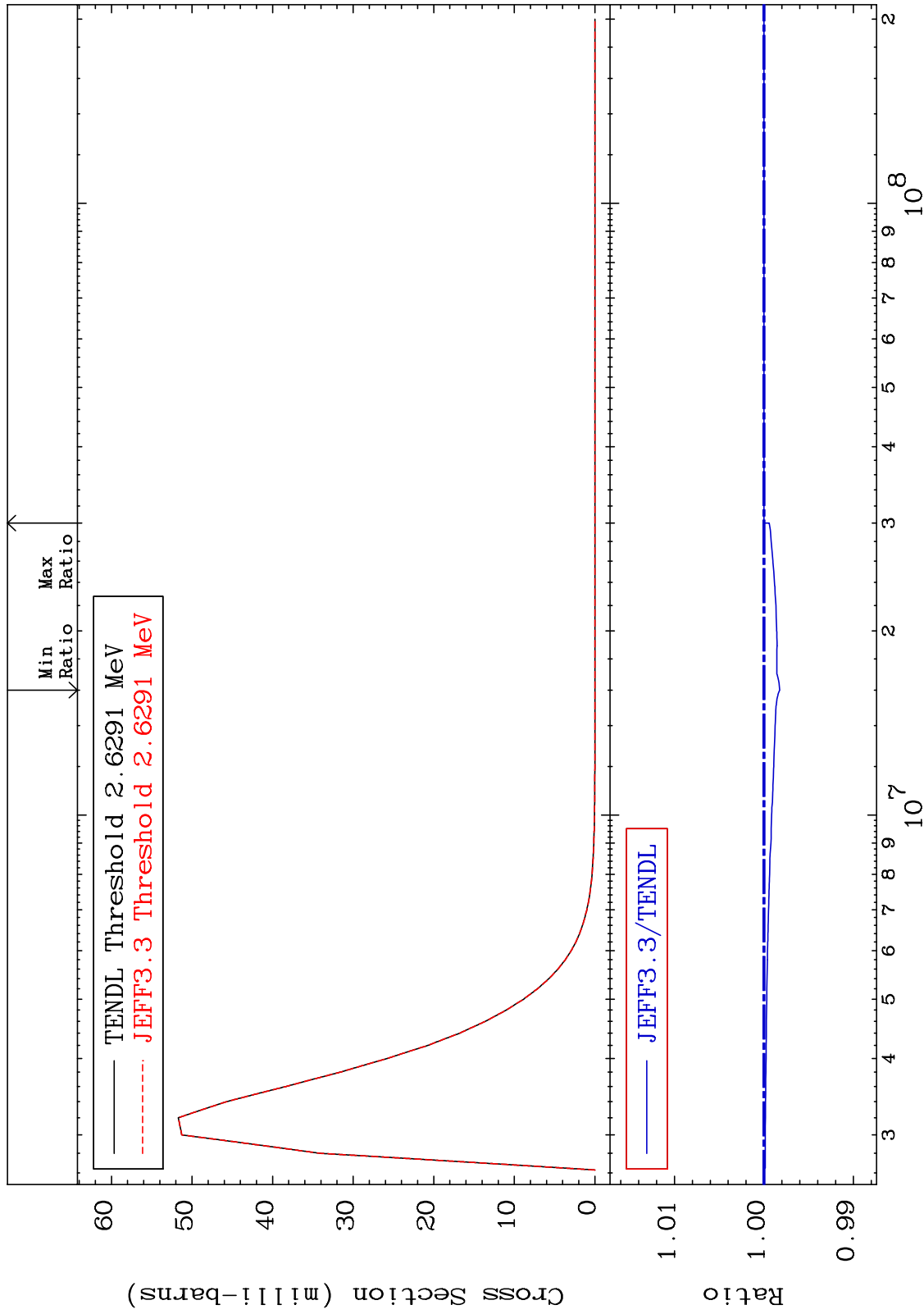
MAT 4431

MT= 74 (n,n') Level

44-Ru-98

-0.176 To 0.000 %

Cross Section



43

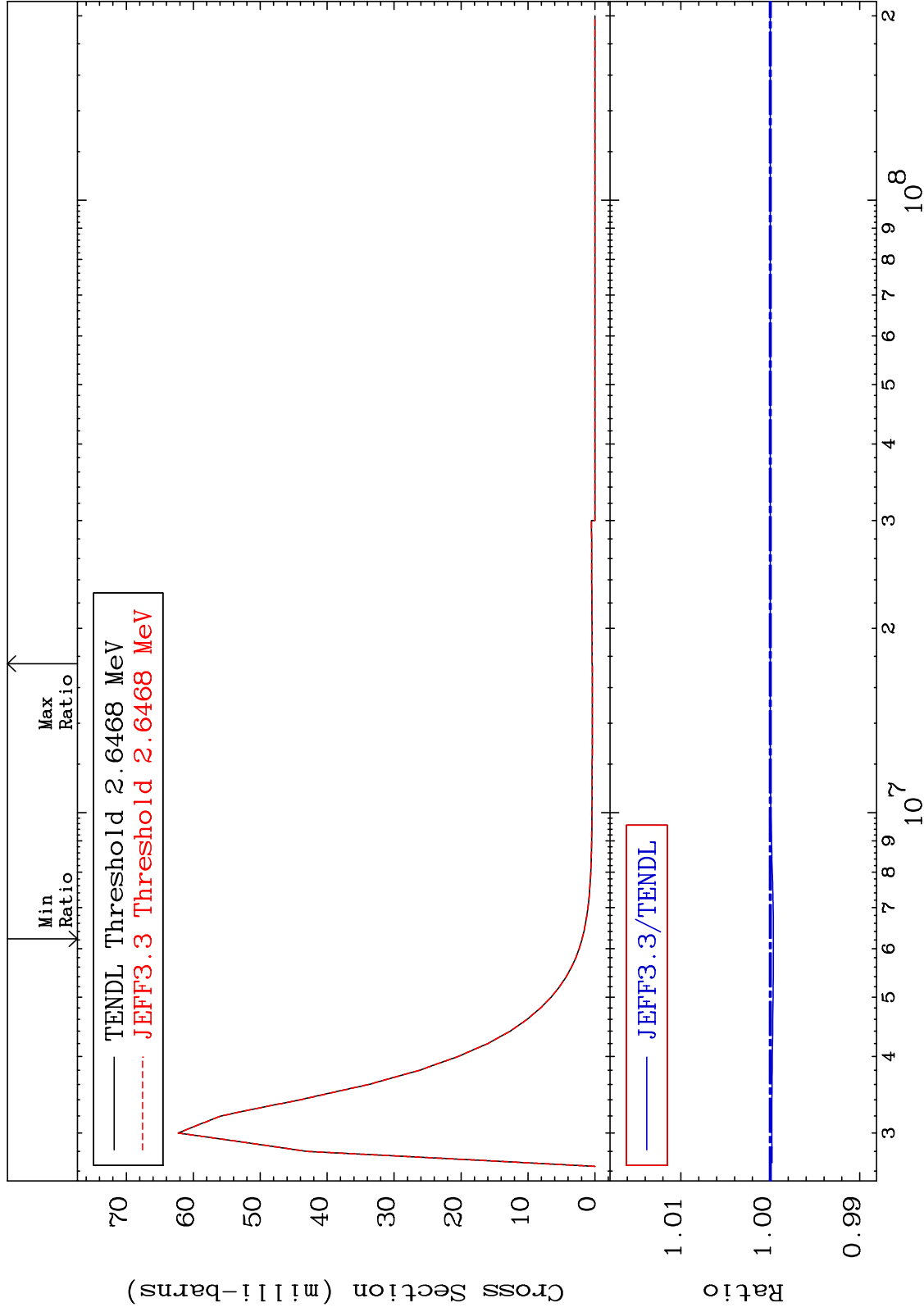
Incident Energy (eV)

44-Ru-98

MAT 4431

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

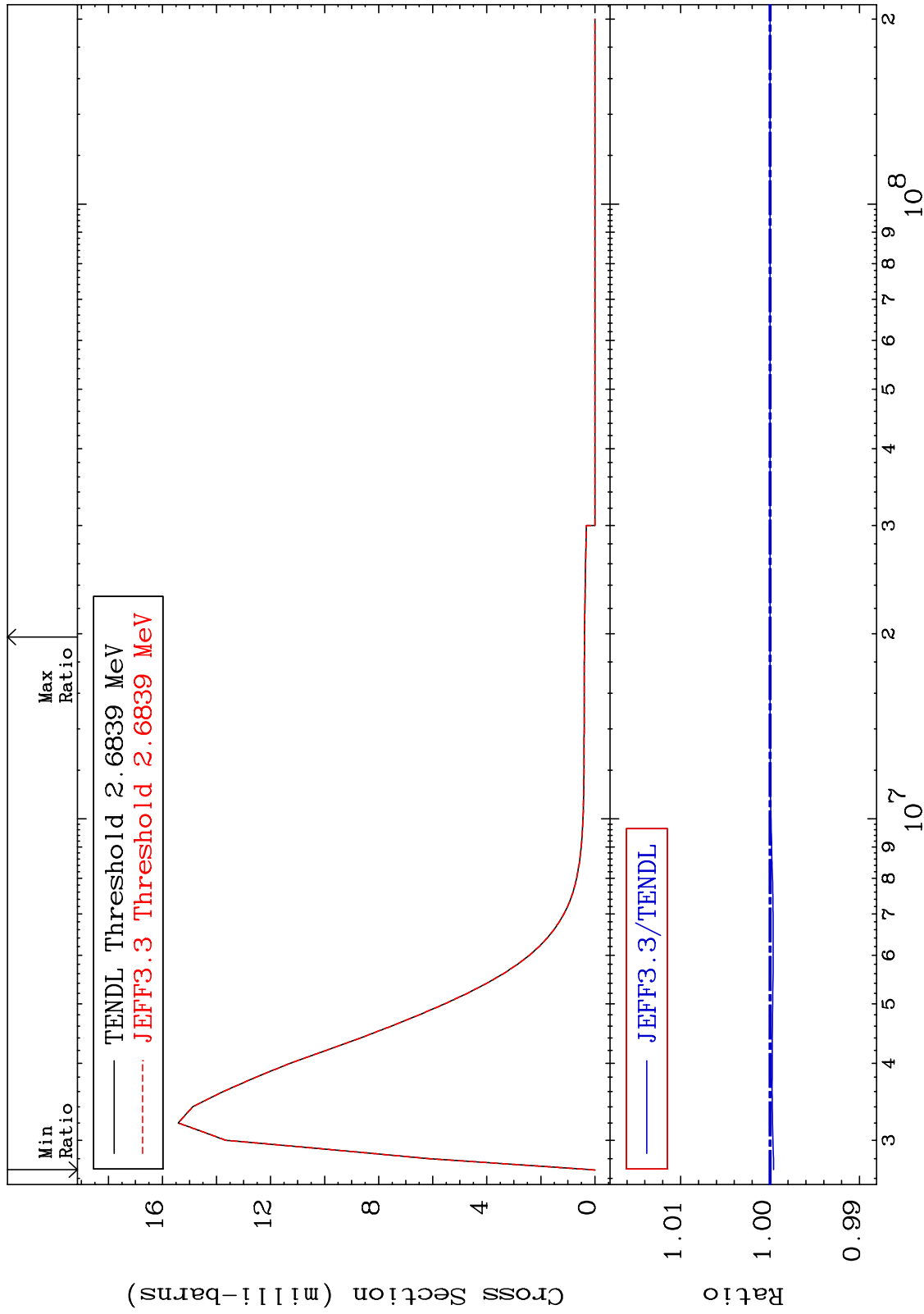
44-Ru-98
-0.035 To 0.000 %



MAT 4431

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

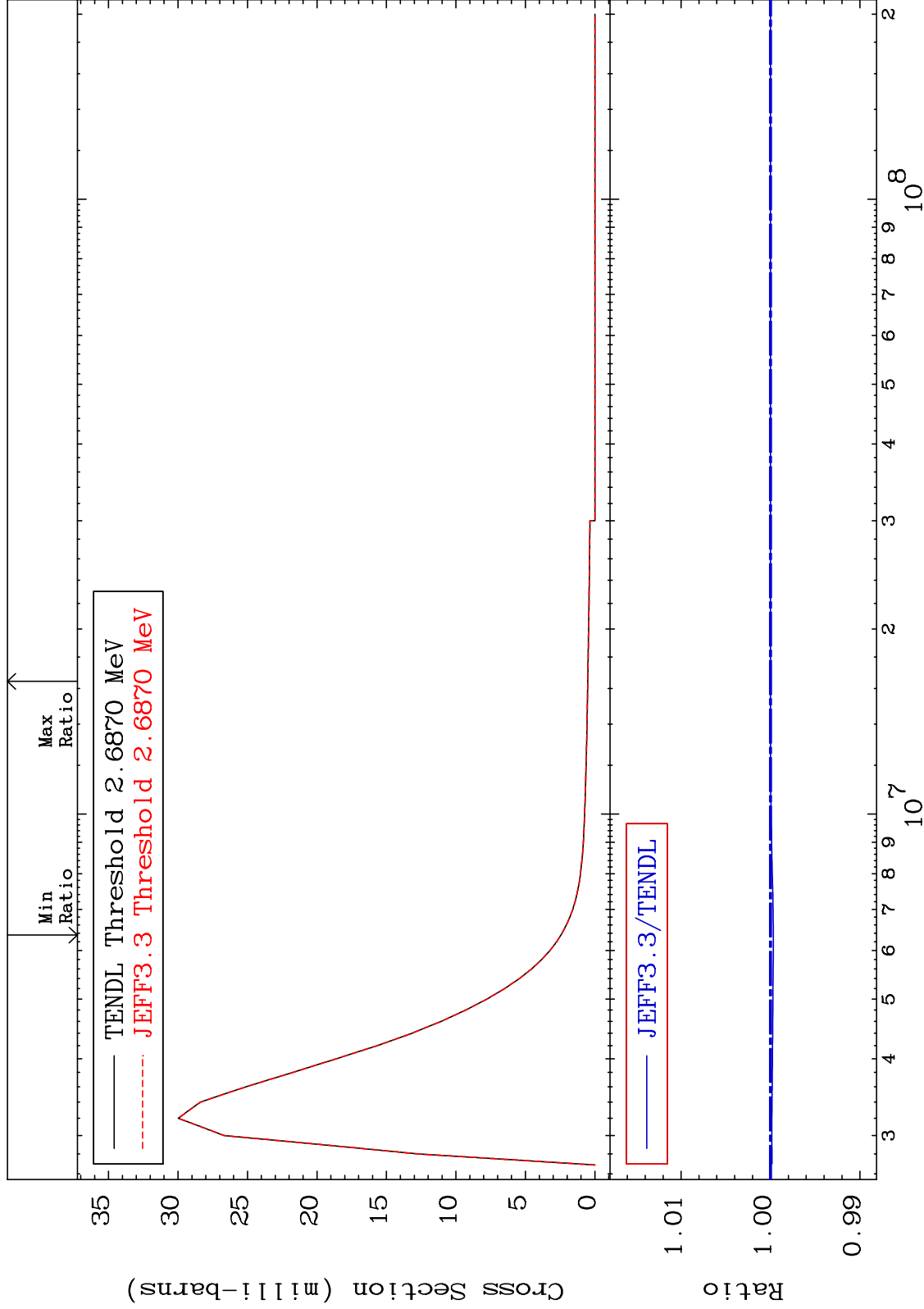
44-Ru-98
-0.040 To 0.000 %



MAT 4431

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

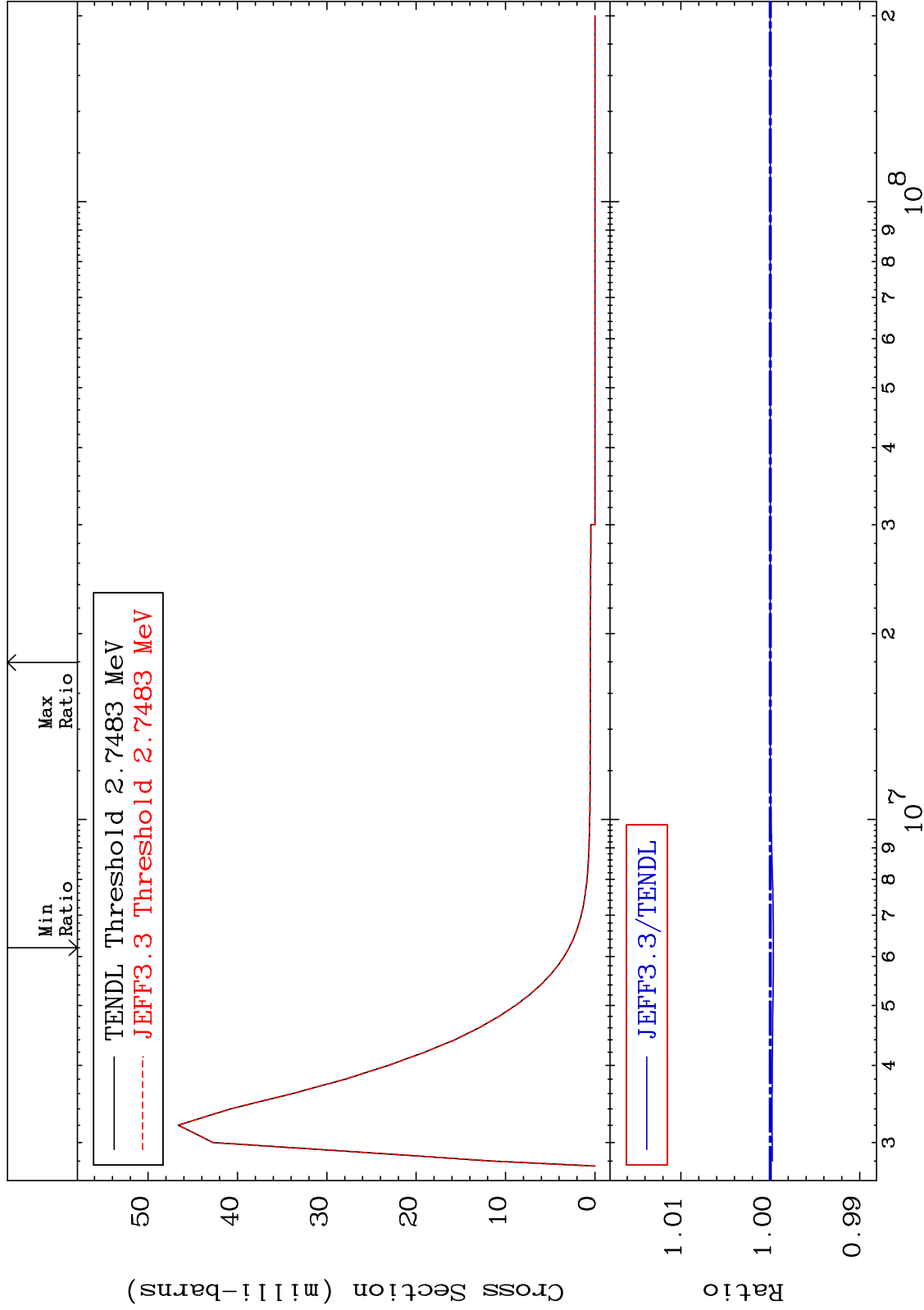
44-Ru-98
-0.032 To 0.000 %



MAT 4431

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

44-Ru-98
-0.035 To 0.000 %



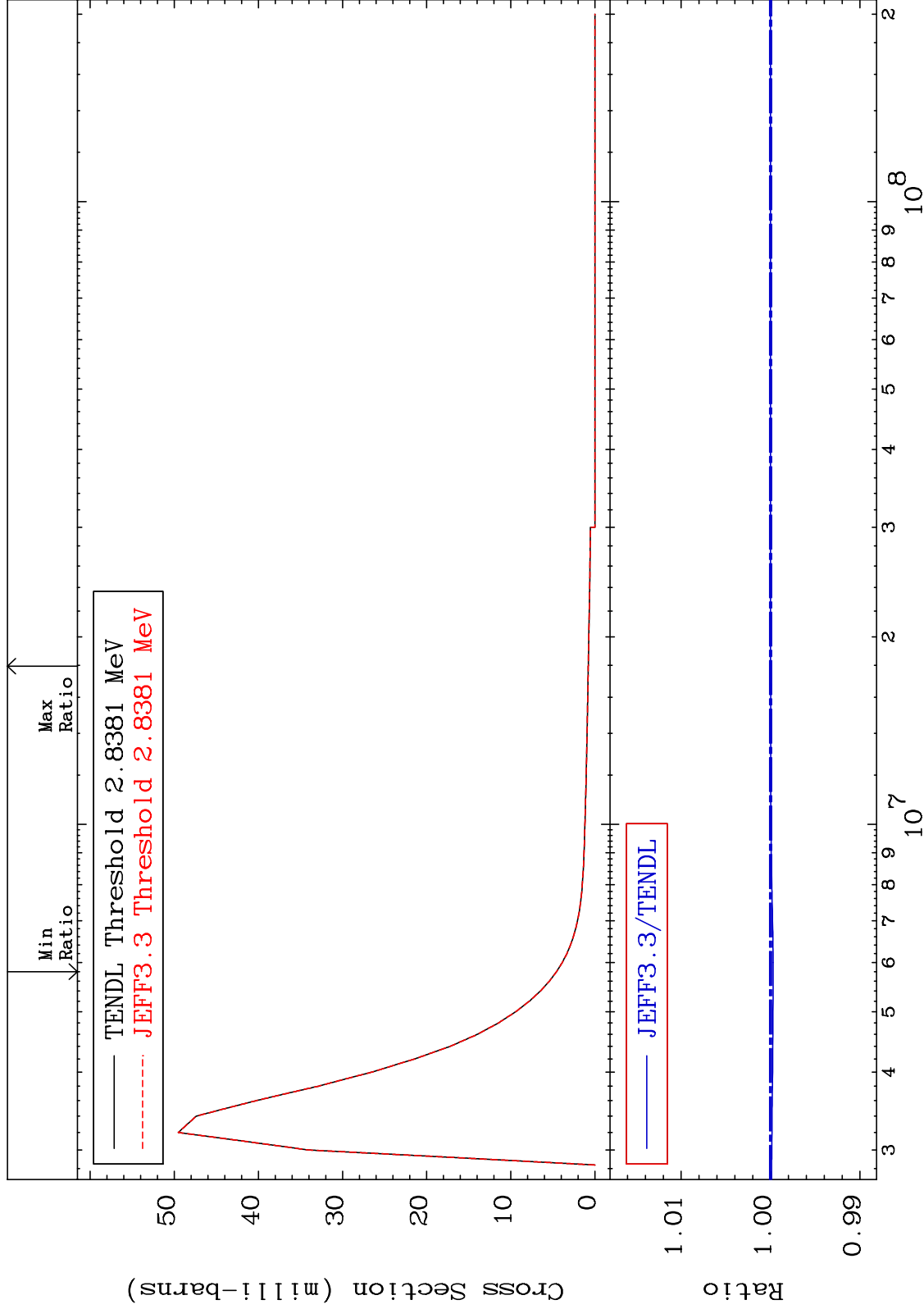
47

44-Ru-98

MAT 4431

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

44-Ru-98
-0.028 To 0.000 %



48

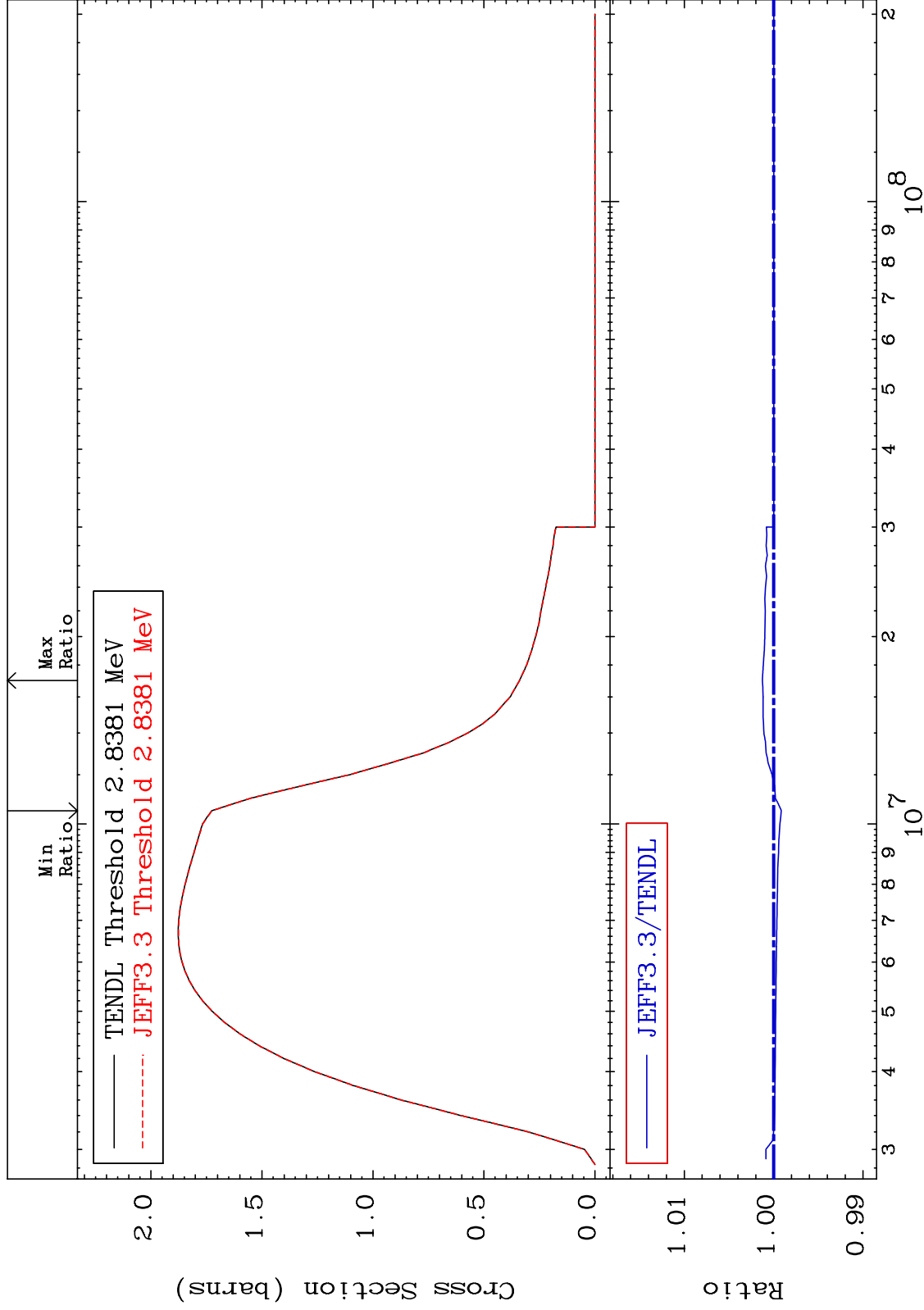
Incident Energy (eV)

44-Ru-98

MAT 4431

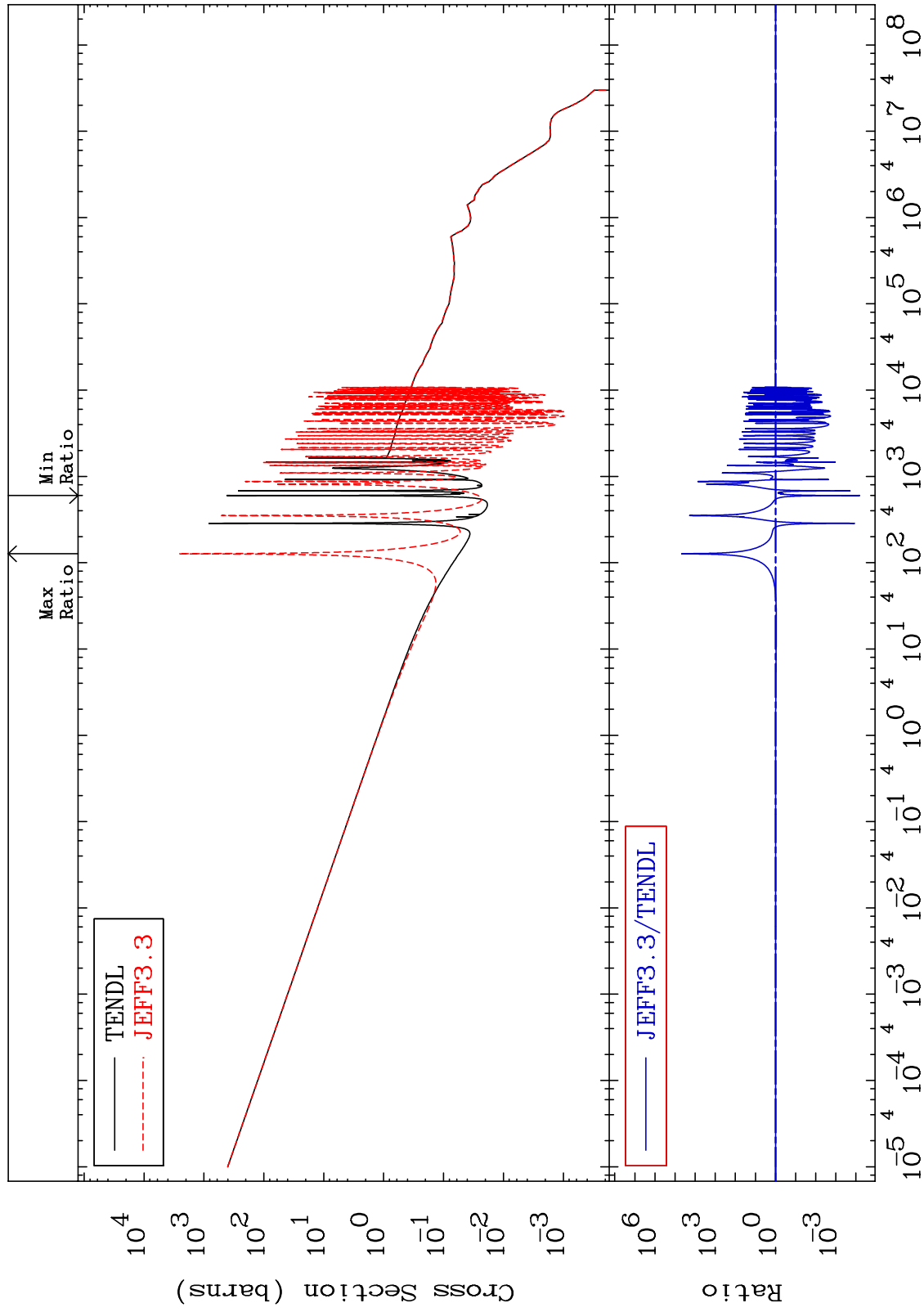
(n, n') Continuum
Cross Section

44-Ru-98
-0.085 To 0.126 %



MAT 4431

(n, γ) Cross Section
44-Ru-98
-99.99 To 9999. %

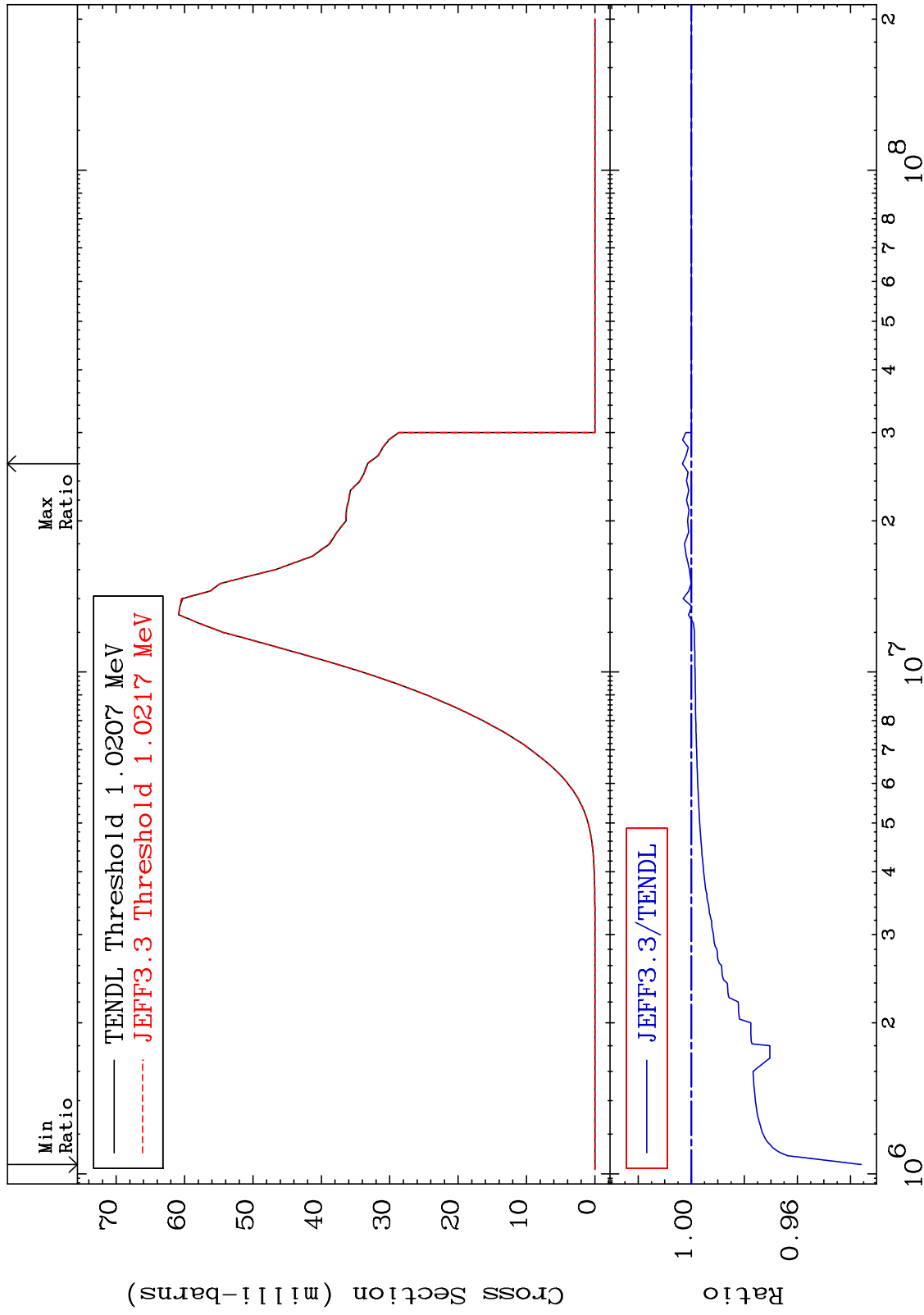


MAT 4431

44-Ru-98

(n,p)

Cross Section -6.408 To 0.333 %



51

Incident Energy (eV)

44-Ru-98

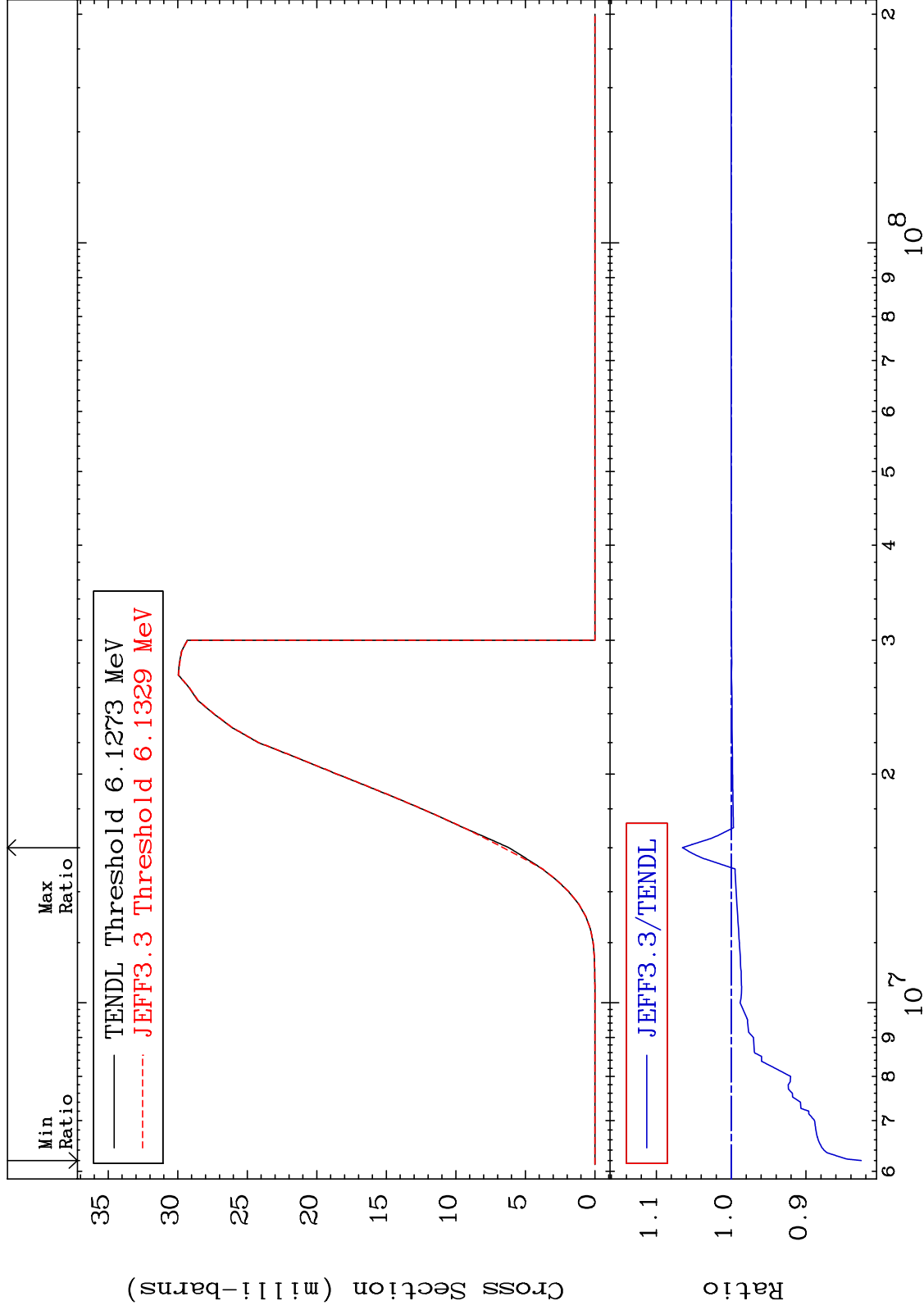
MAT 4431

(n,d)

44-Ru-98

-17.38 To 6.509 %

Cross Section



52

Incident Energy (eV)

44-Ru-98

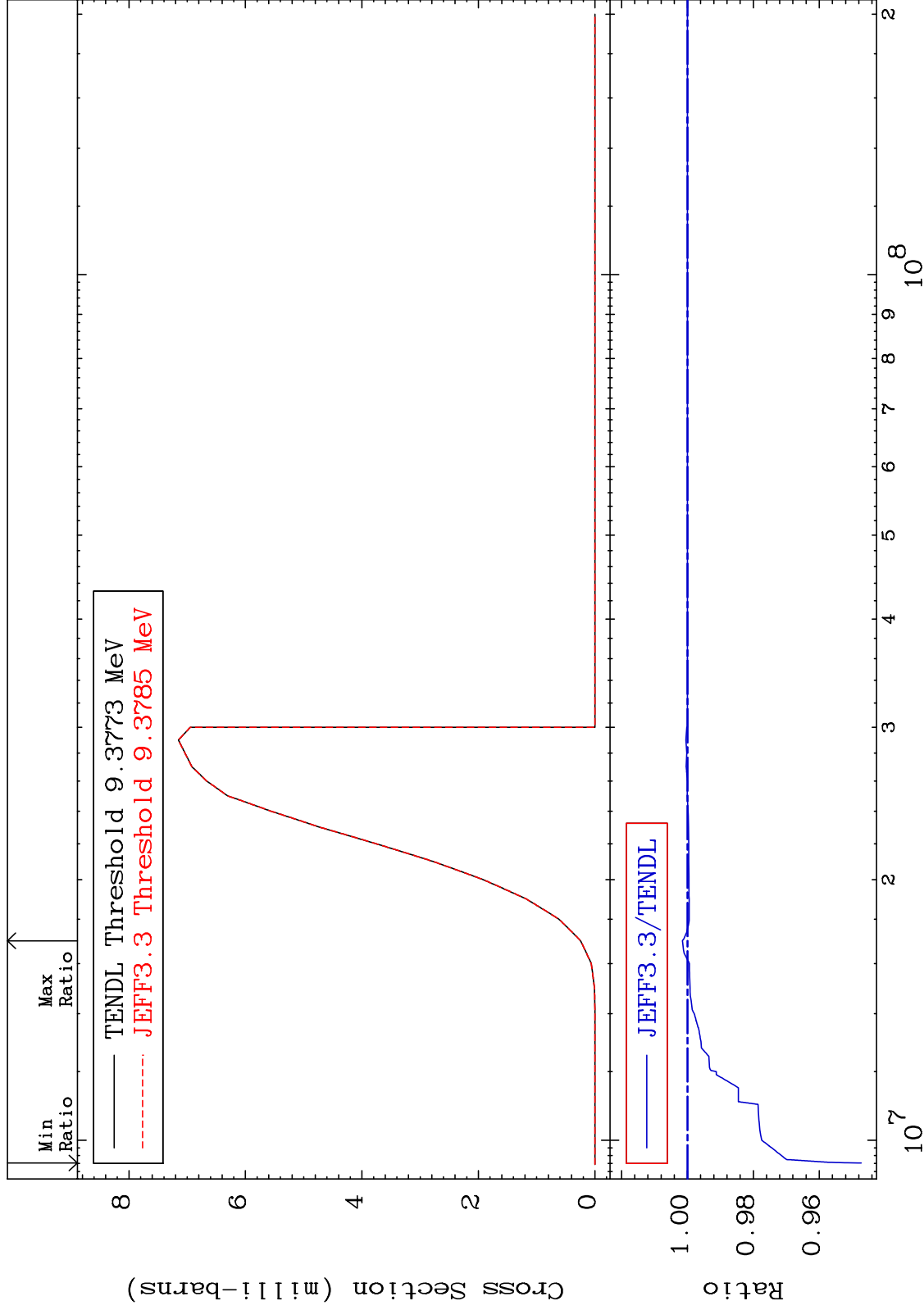
MAT 4431

(n, t)

44-Ru-98

Cross Section

-5.276 To 0.151 %



53

Incident Energy (eV)

44-Ru-98

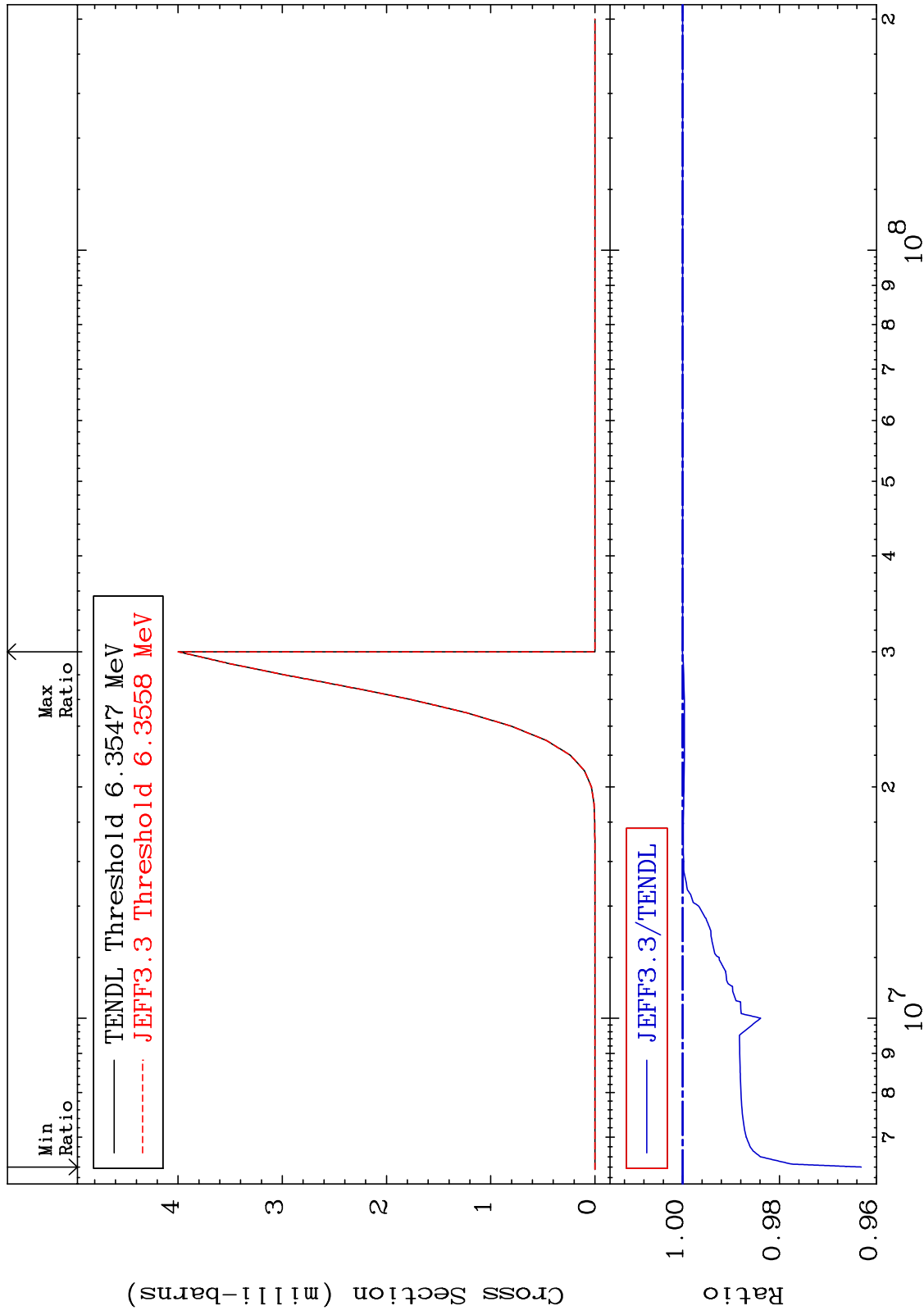
MAT 4431

(n, He-3)

44-Ru-98

-3.690 To 0.004 %

Cross Section



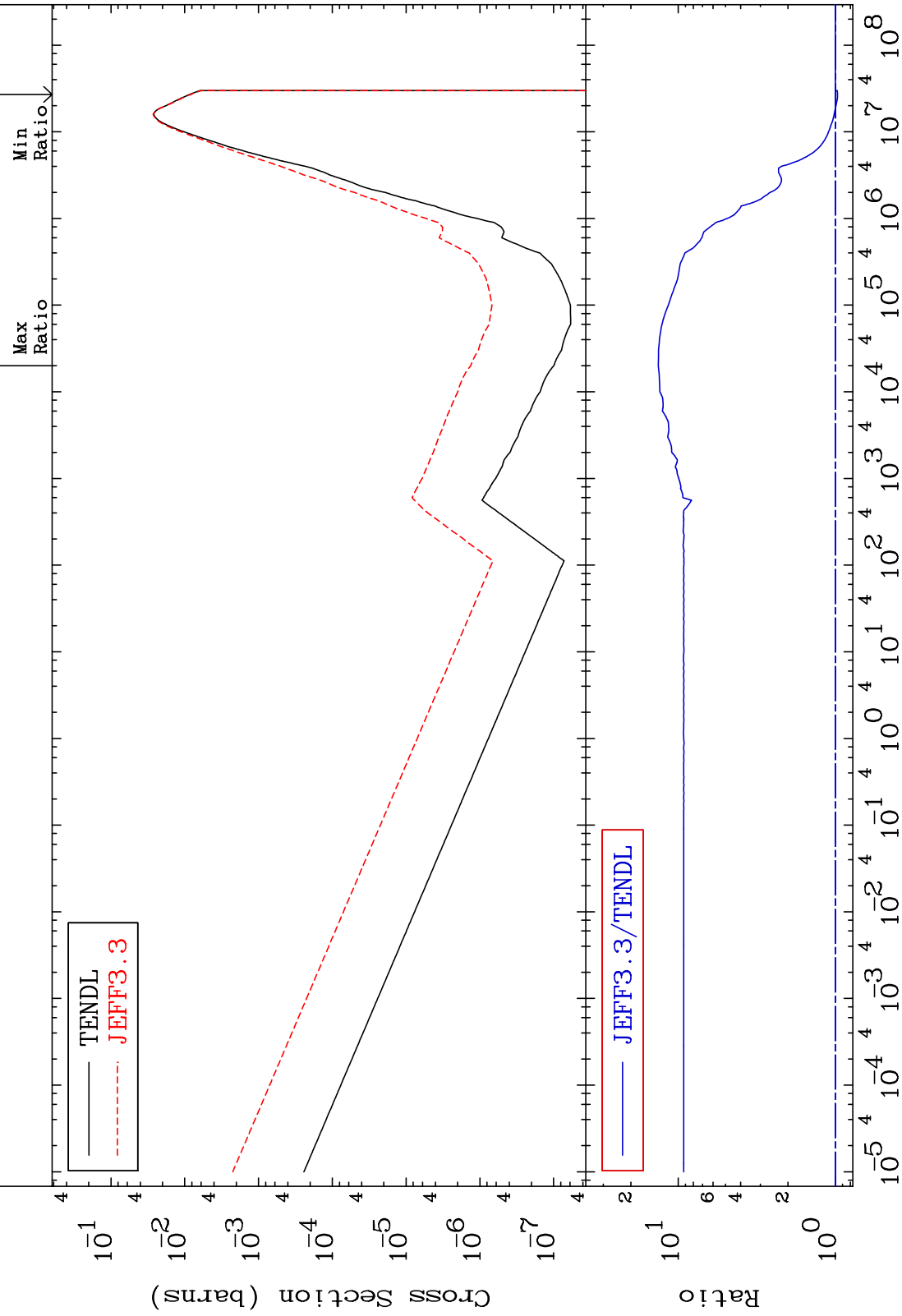
MAT 4431

(n, α)

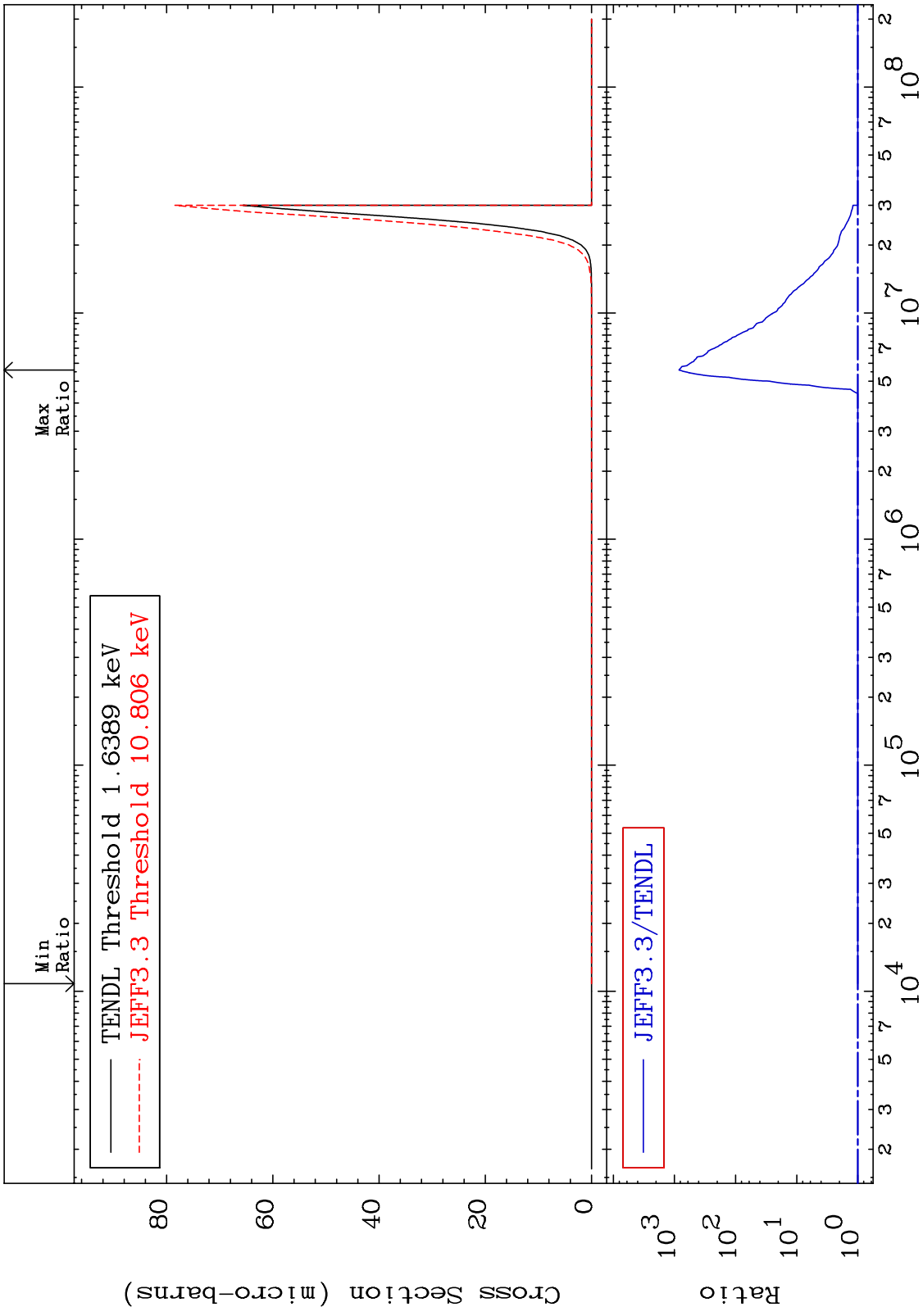
44-Ru-98

Cross Section

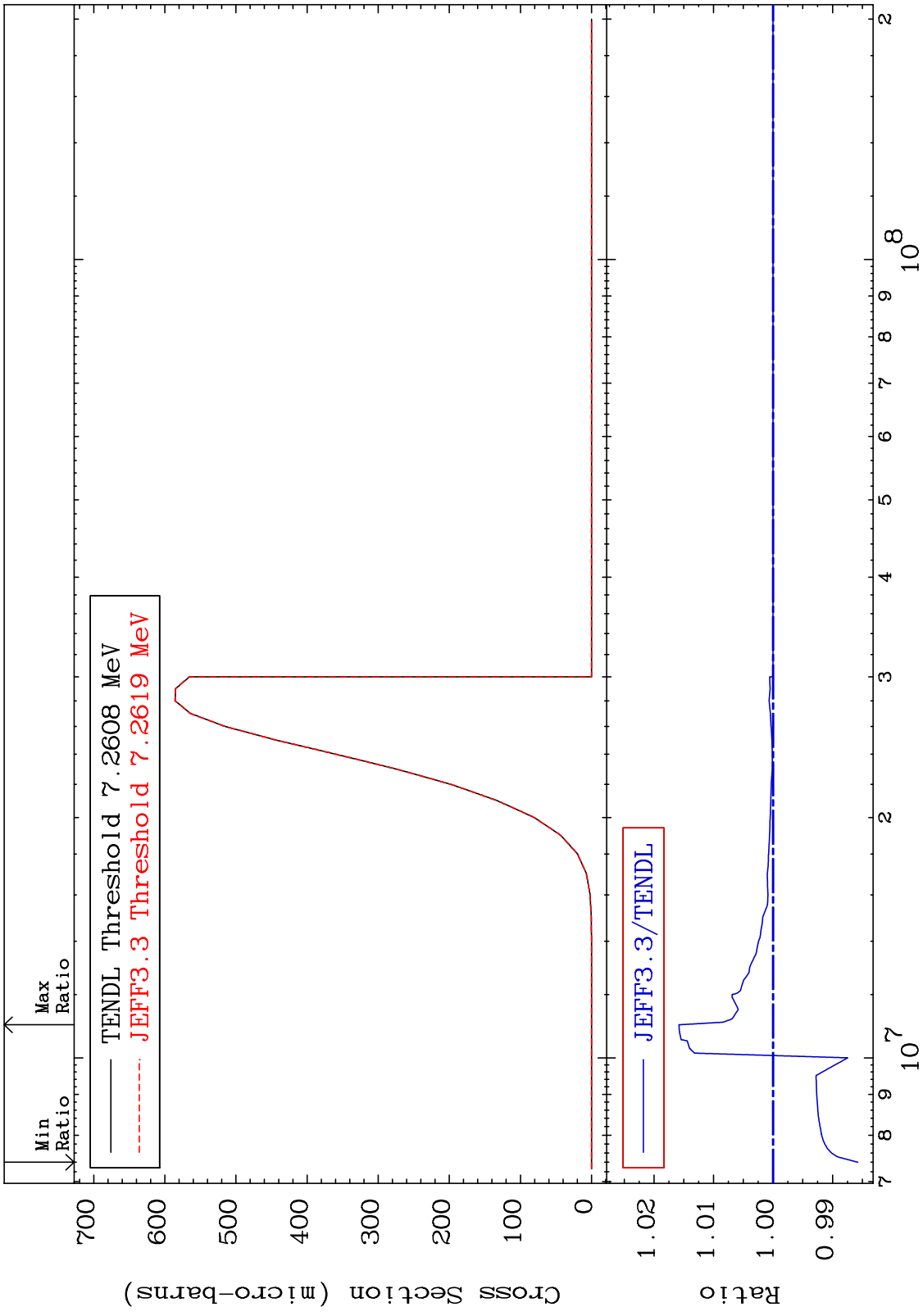
-3.303 To 1237. %



MAT 4431 $(n, 2\alpha)$ Cross Section 44-Ru-98 To 9999. %



MAT 4431 (n,2p) Cross Section 44-Ru-98
 -1.425 To 1.580 %



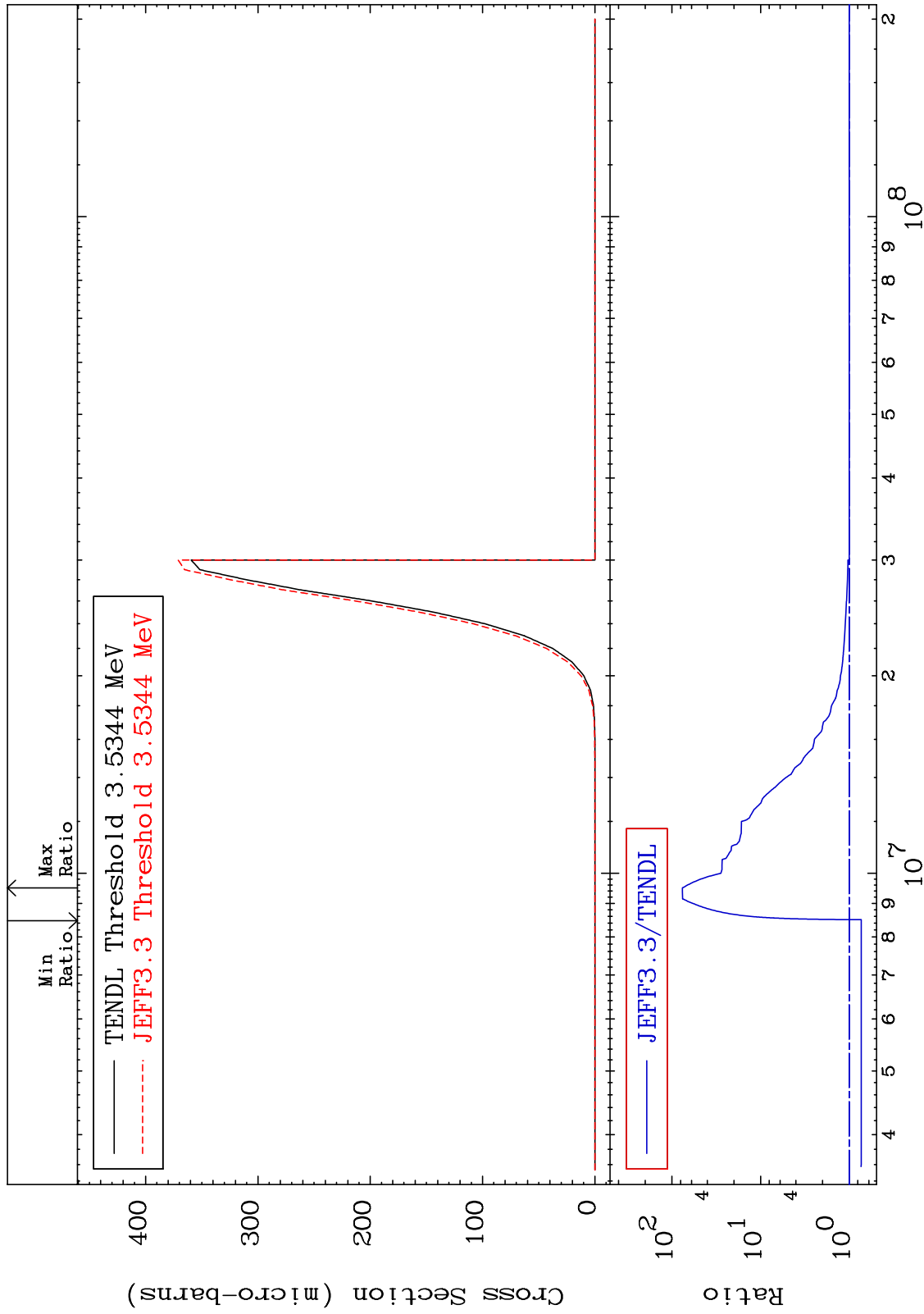
MAT 4431

(n,p) α

44-Ru-98

Cross Section

-26.97 To 7510. %



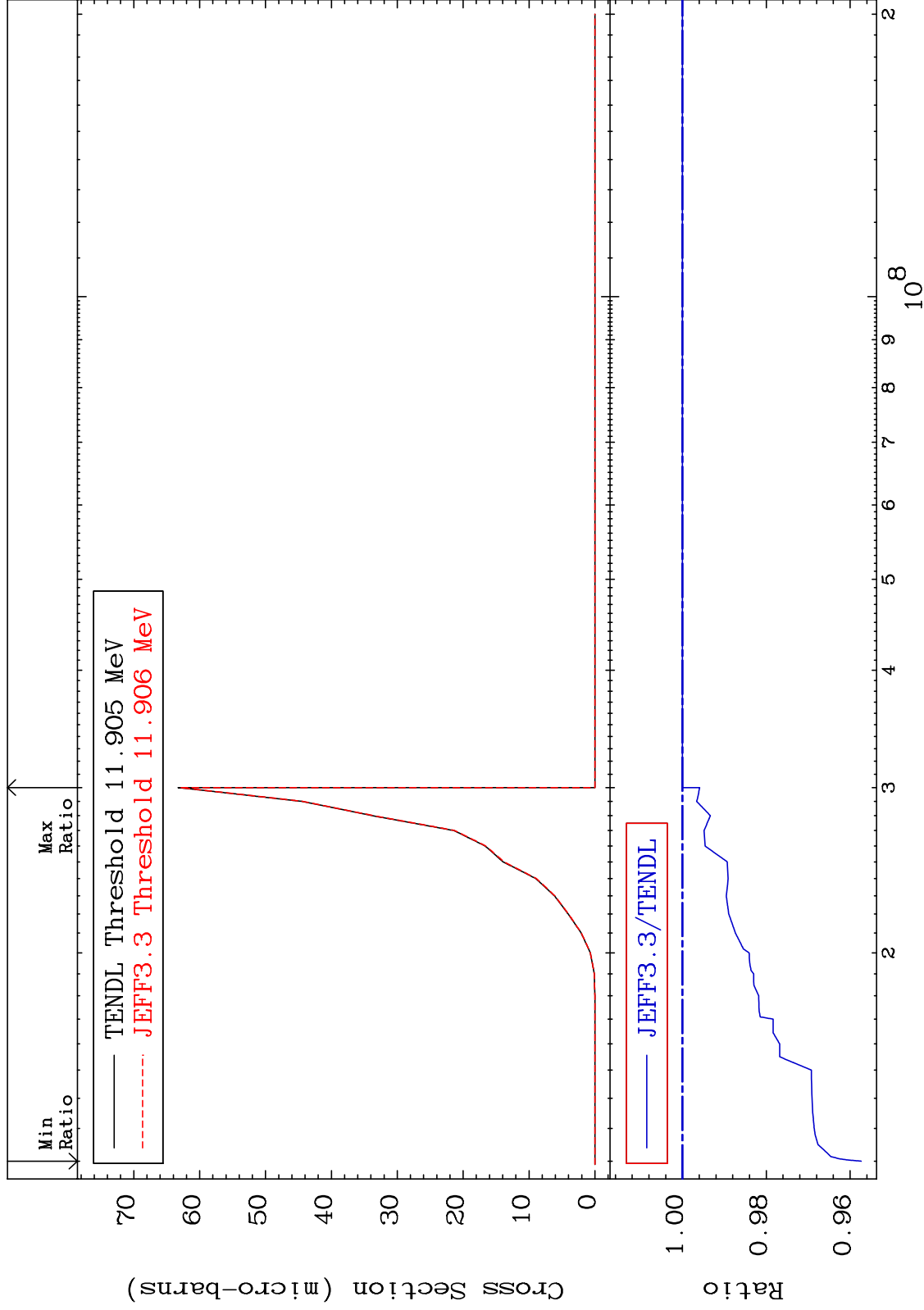
MAT 4431

(n,p) d

44-Ru-98

Cross Section

-4.267 To 0.000 %



59

Incident Energy (eV)

44-Ru-98

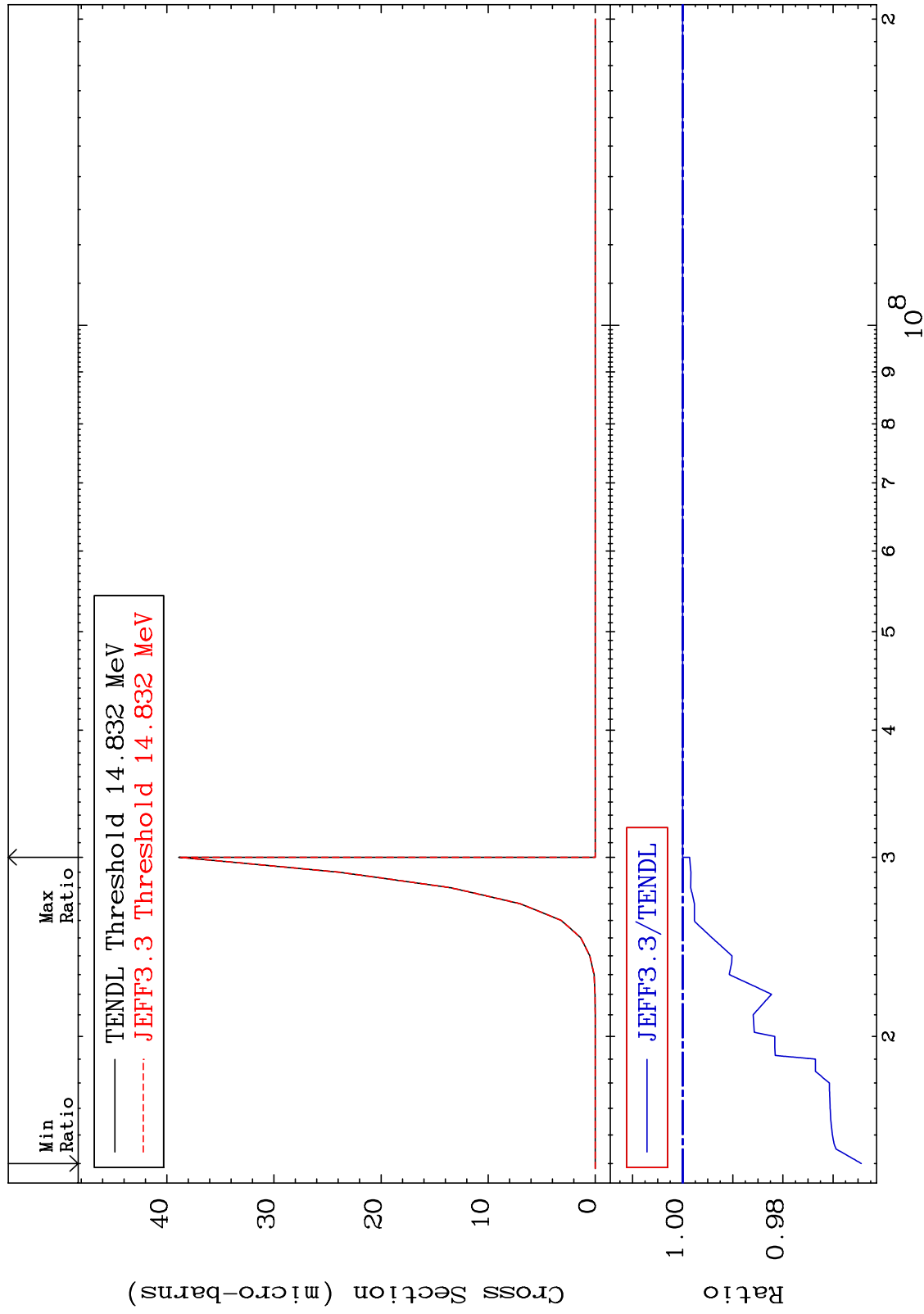
MAT 4431

(n,p) t

44-Ru-98

Cross Section

-3.564 To 0.000 %



60

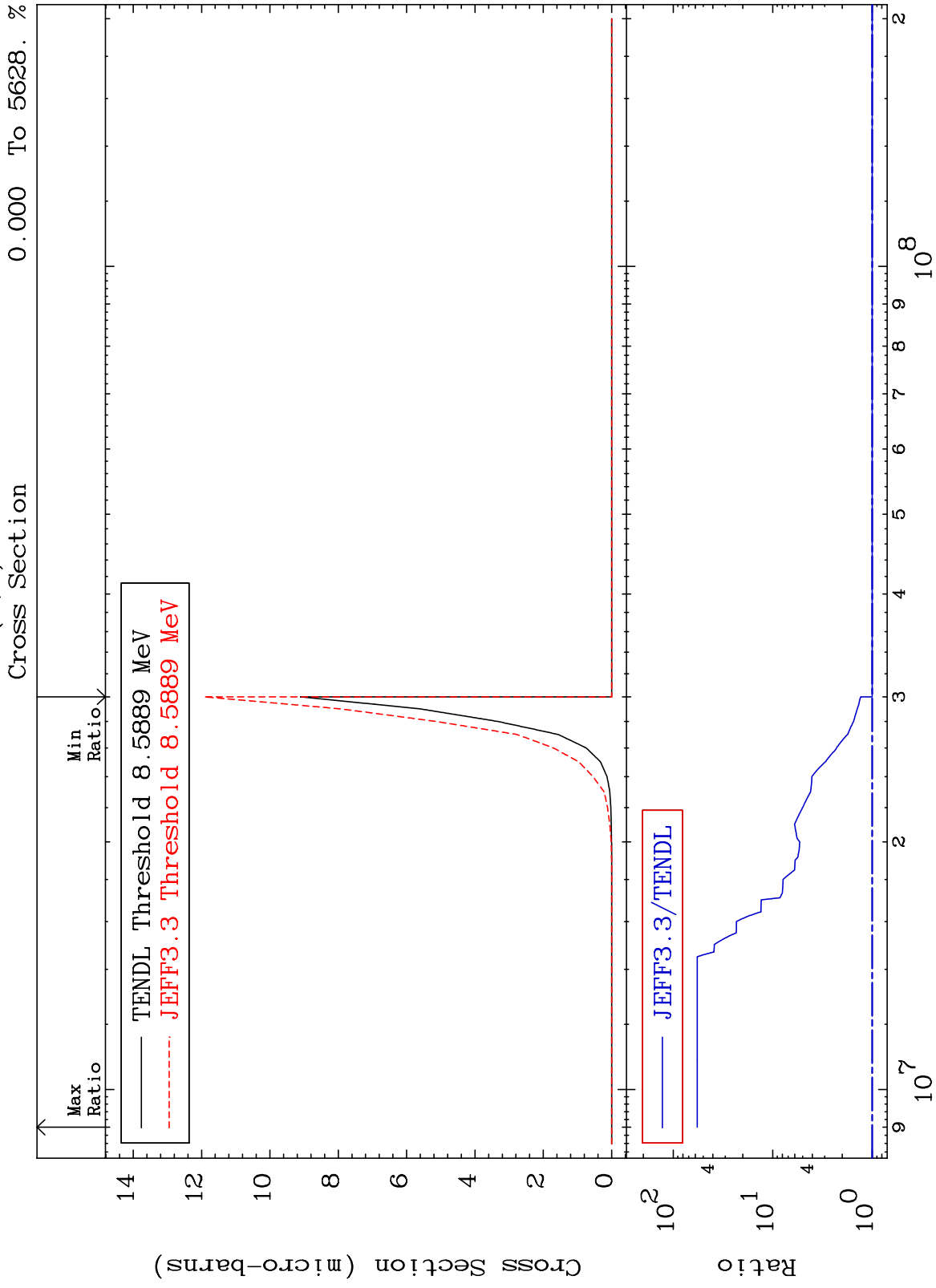
Incident Energy (eV)

44-Ru-98

MAT 4431

(n,d) α

44-Ru-98
0.000 To 5628. %



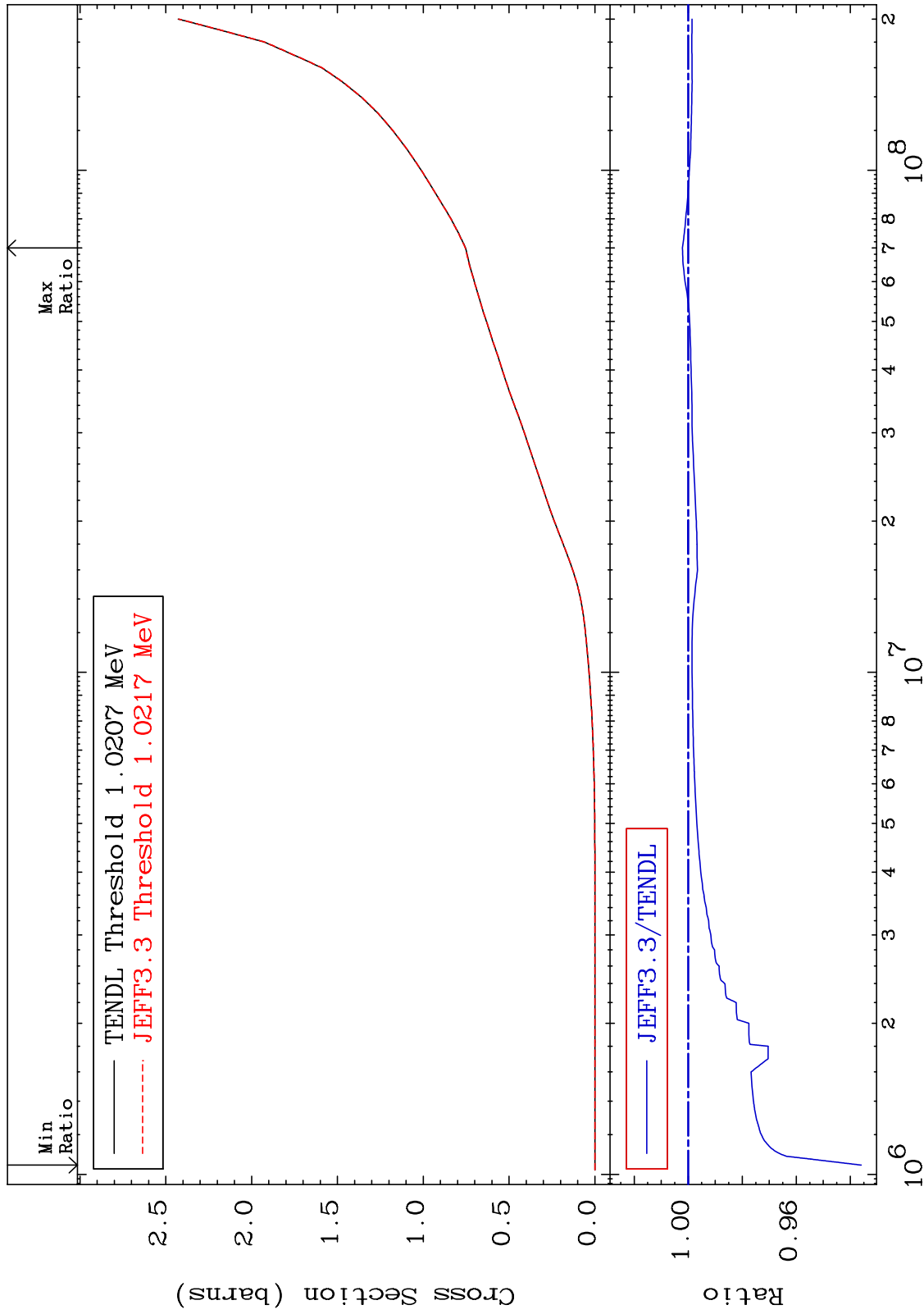
61

44-Ru-98

MAT 4431

Hydrogen Production
Cross Section

44-Ru-98
-6.408 To 0.214 %



62

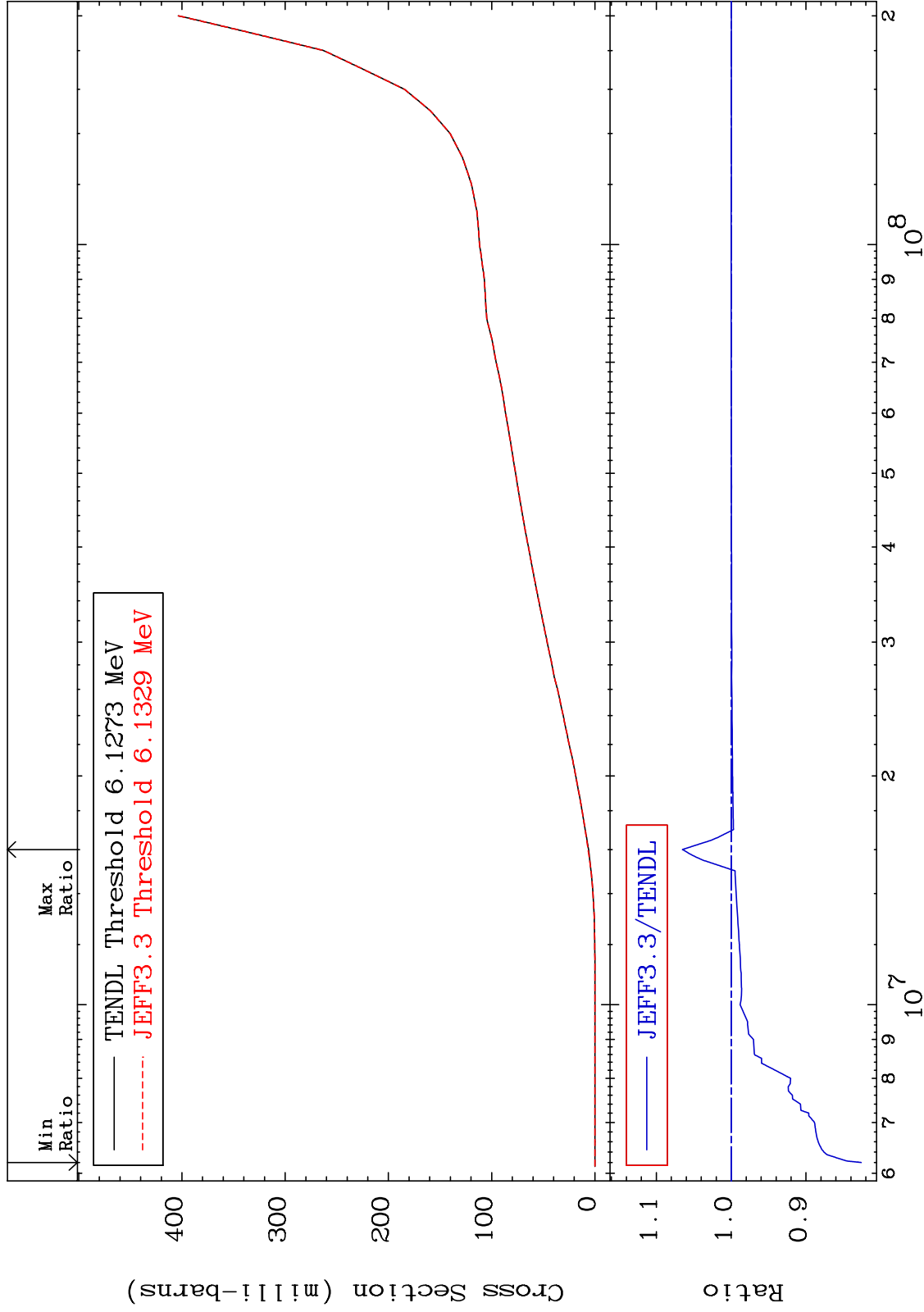
Incident Energy (eV)

44-Ru-98

MAT 4431

Deuterium Production
Cross Section

44-Ru-98
-17.38 To 6.509 %



63

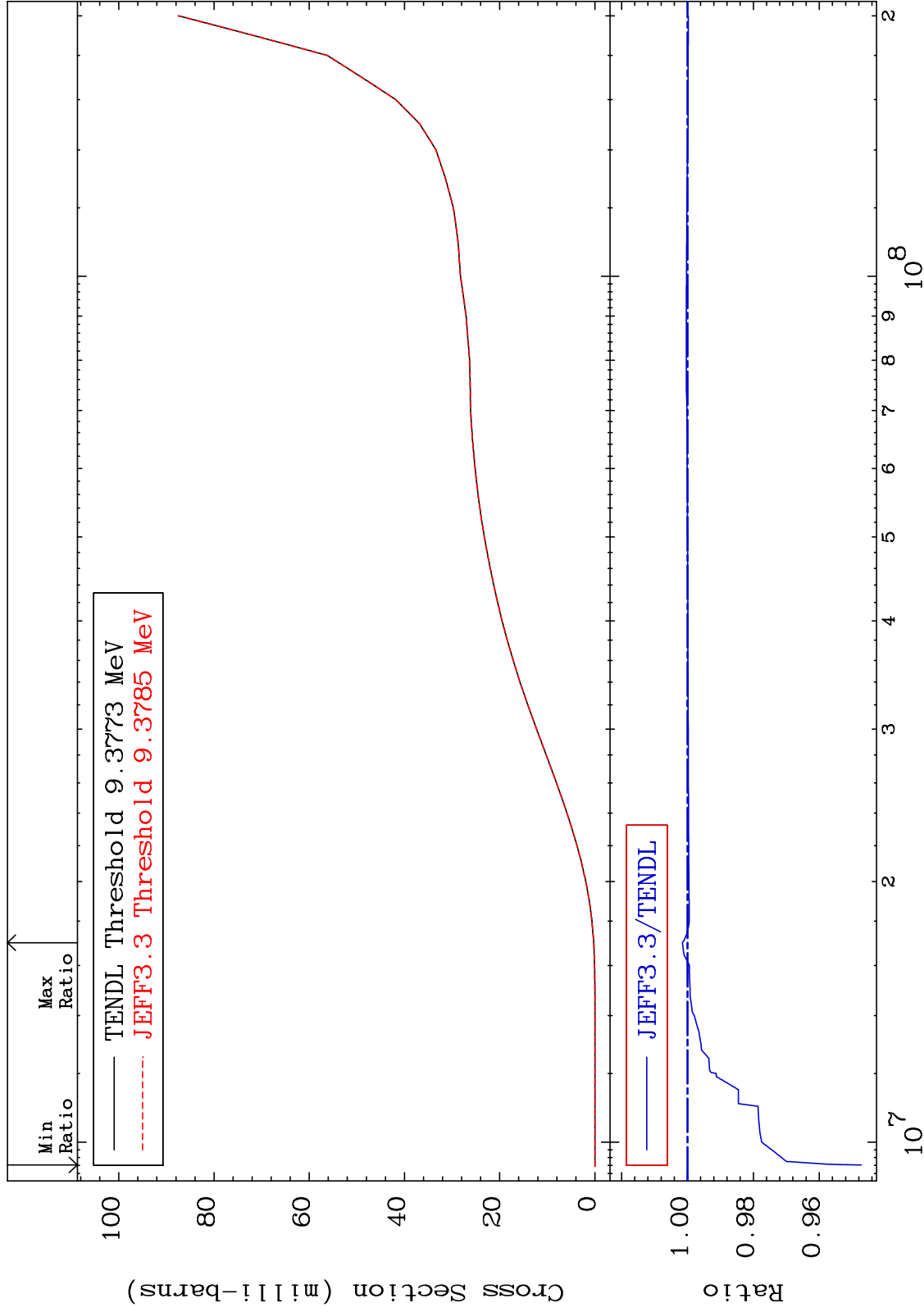
Incident Energy (eV)

44-Ru-98

MAT 4431

Tritium Production
Cross Section

44-Ru-98
-5.276 To 0.151 %



64

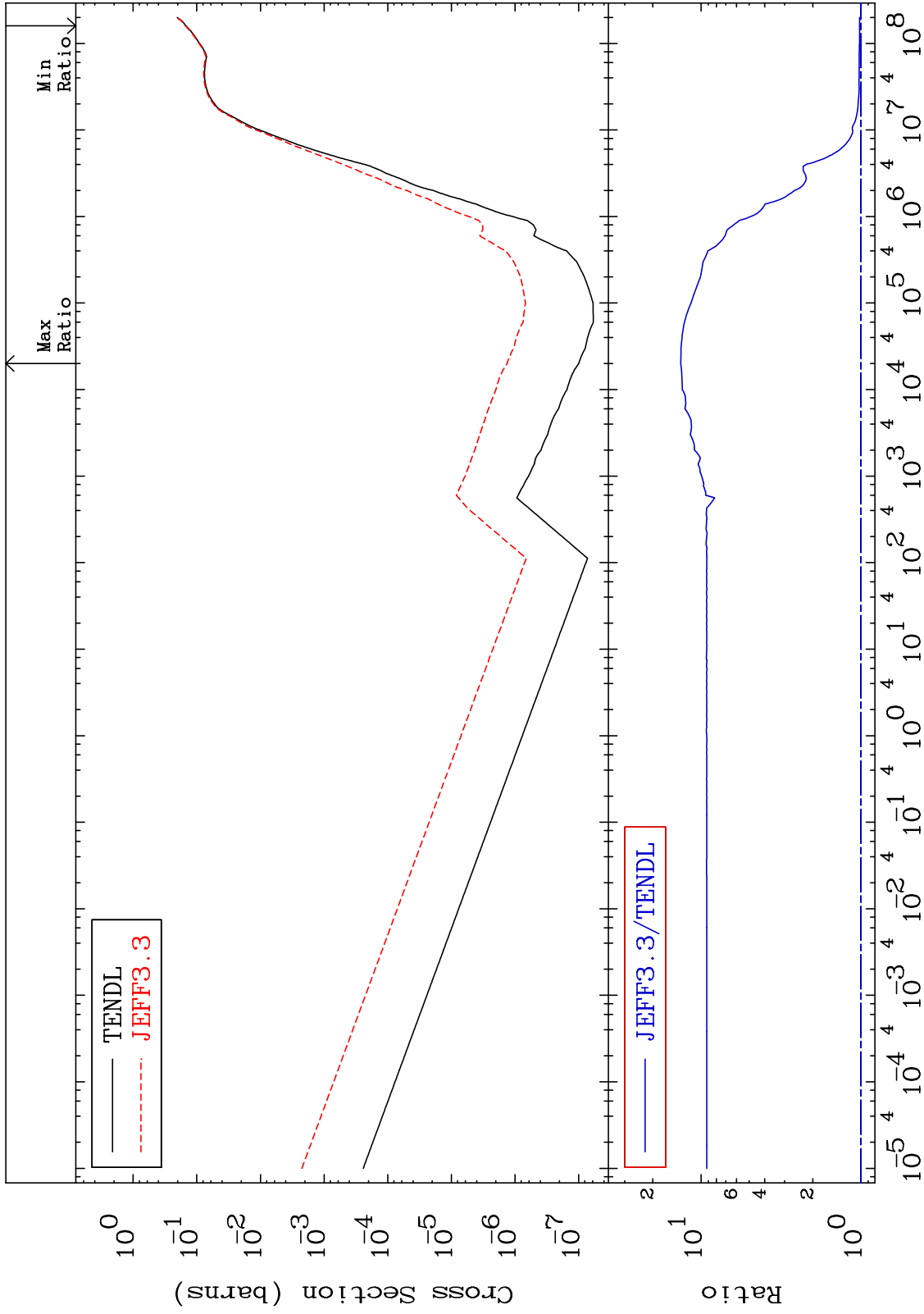
Incident Energy (eV)

44-Ru-98

MAT 4431

He-4 Production
Cross Section

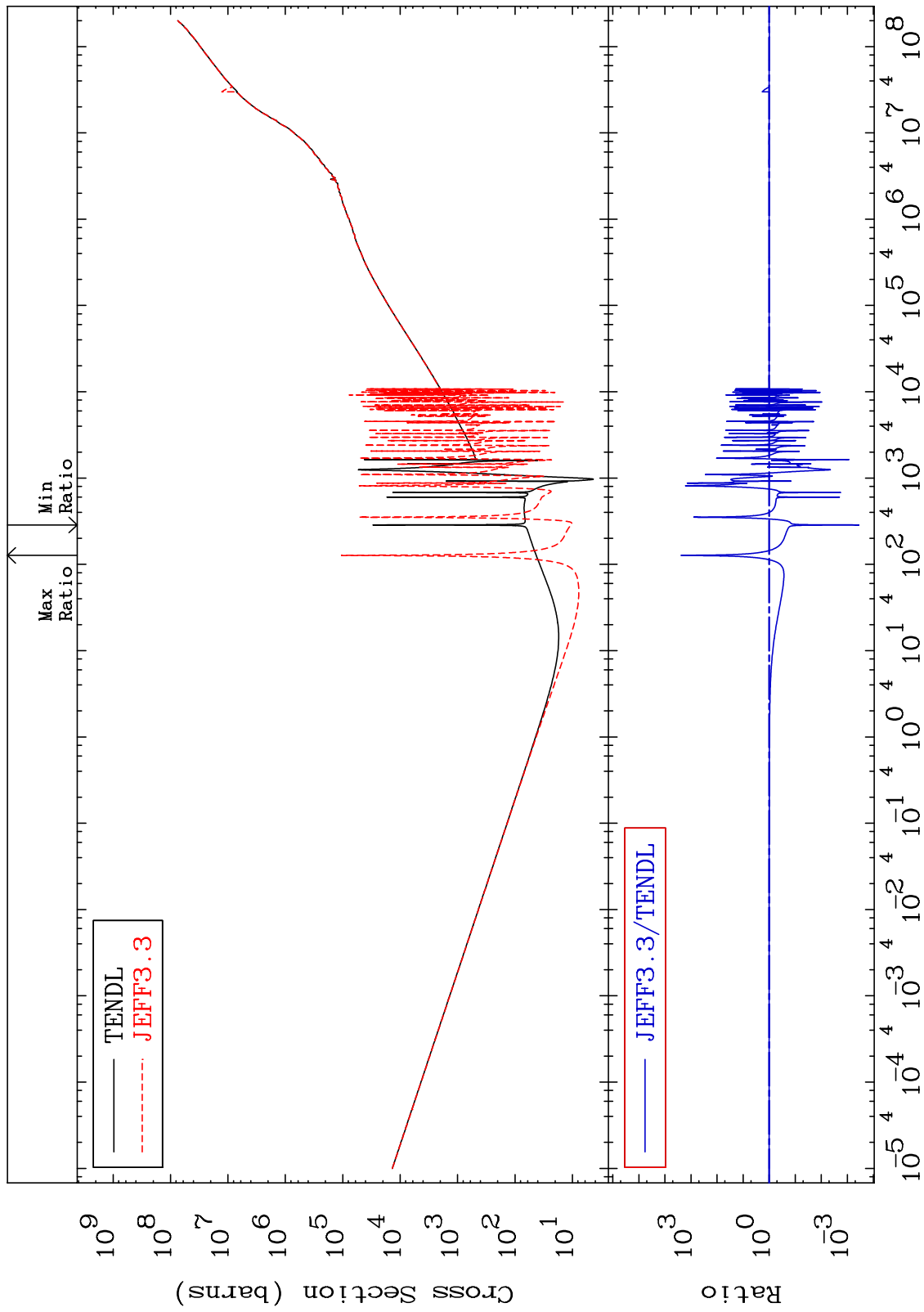
44-Ru-98
1.834 To 1237. %



MAT 4431

Kerma total (eV-barns)
Cross Section

44-Ru-98
-99.96 To 9999. %



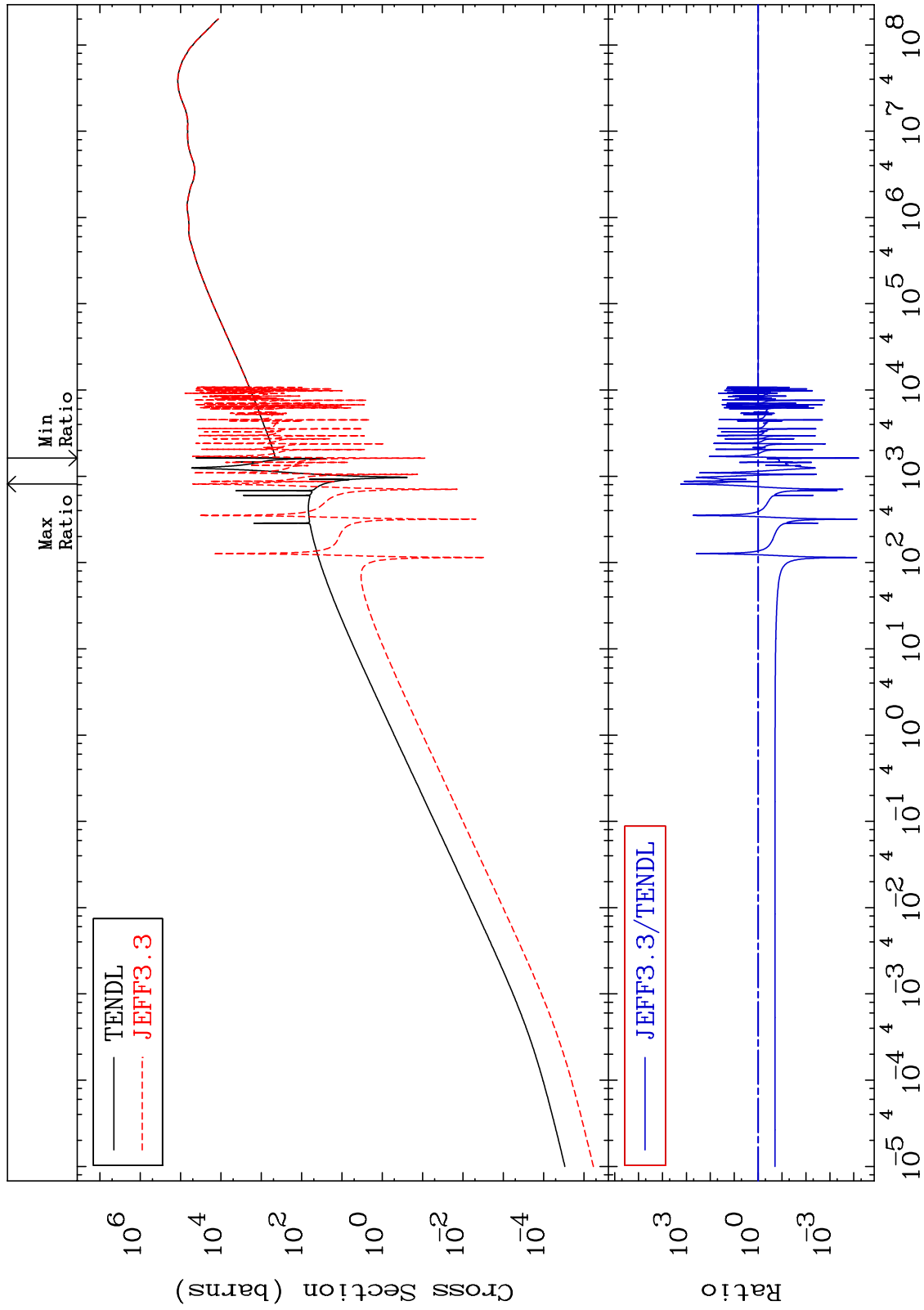
67

44-Ru-98

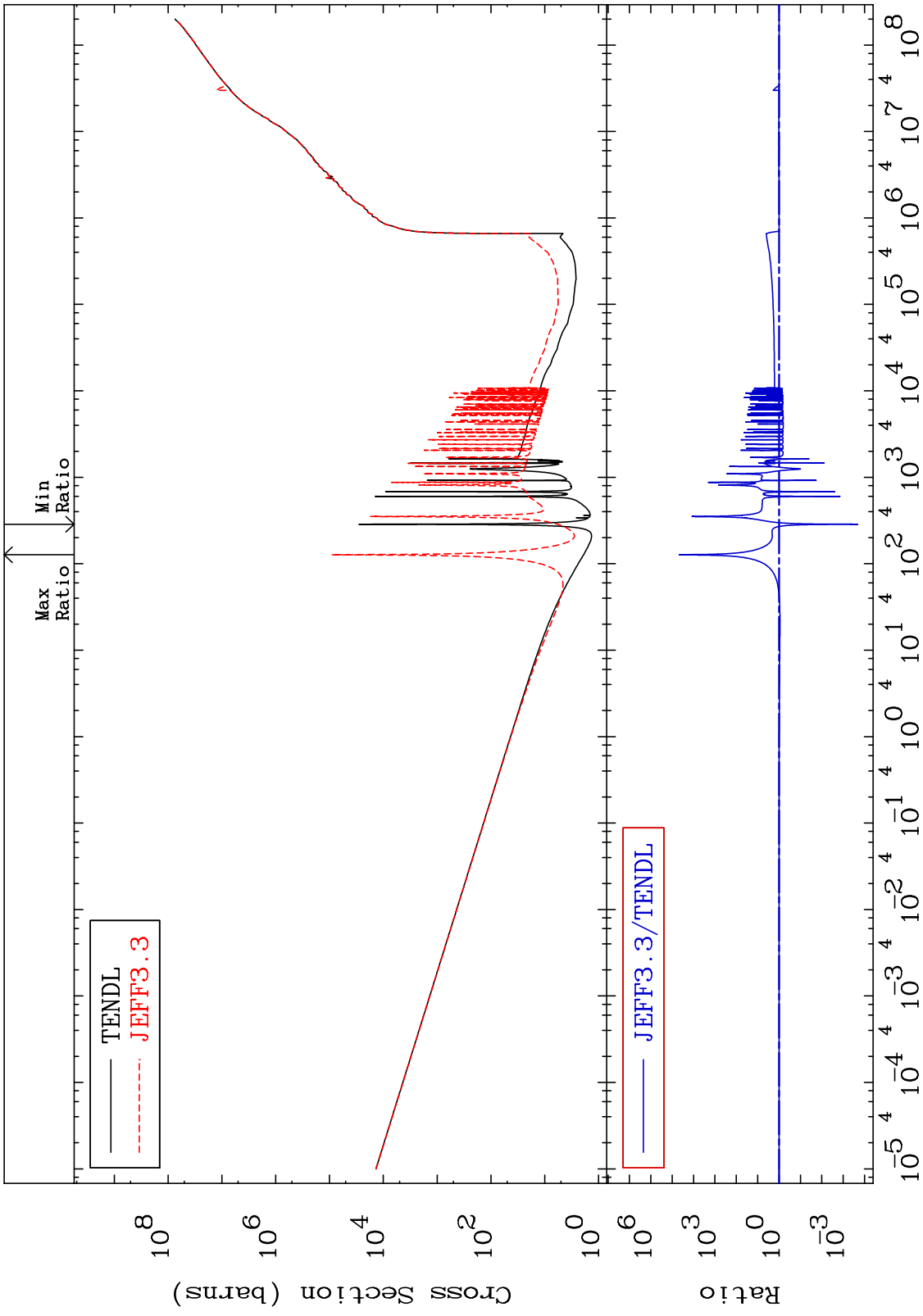
MAT 4431

Kerma elastic
Cross Section

44-Ru-98
-99.99 To 9999. %



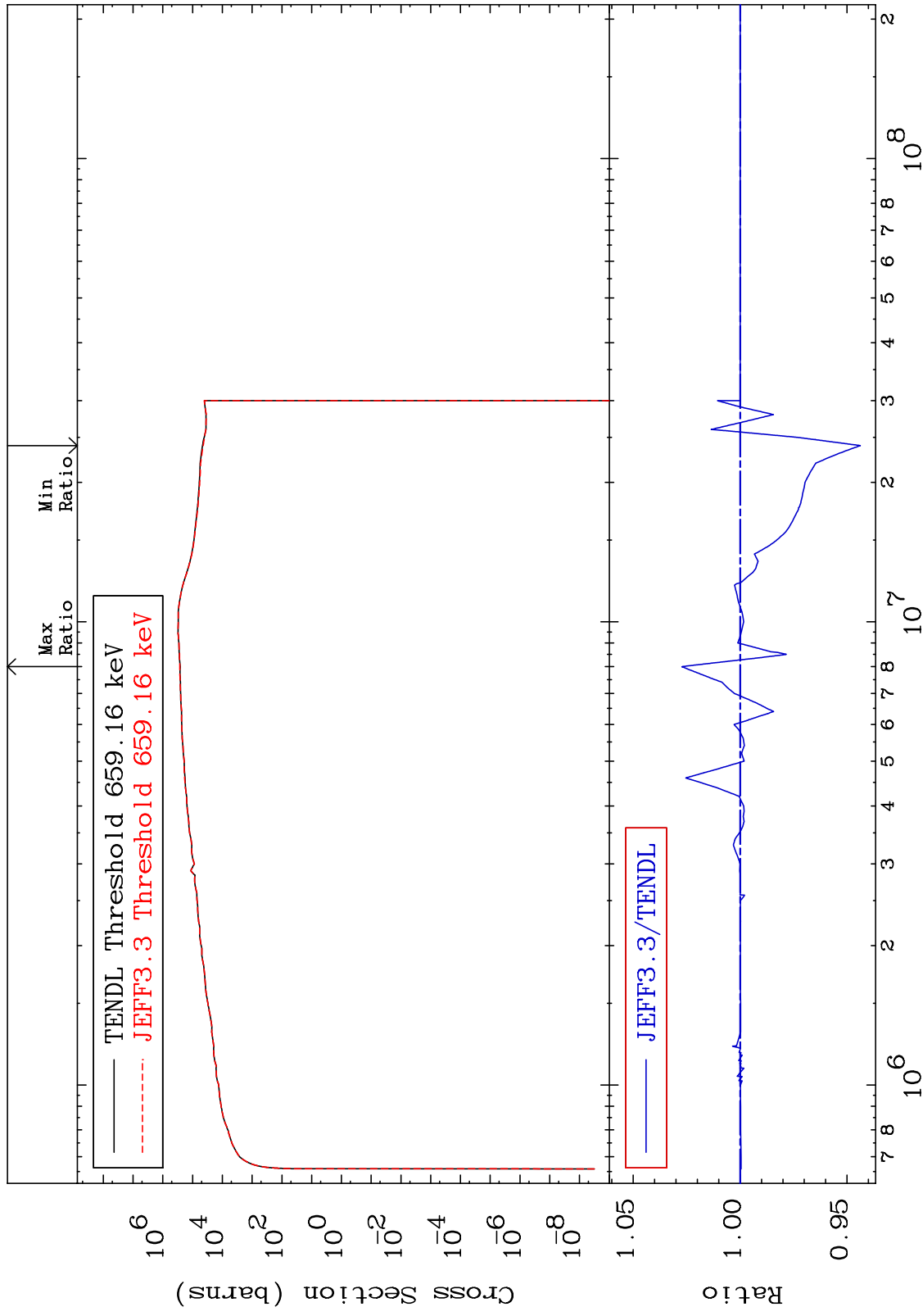
MAT 4431 Kerma non-elastic (all but mt2) 44-Ru-98
 Cross Section -99.98 To 9999. %



MAT 4431

Kerma inelastic (mt51-91)
Cross Section

44-Ru-98
-5.622 To 2.731 %



70

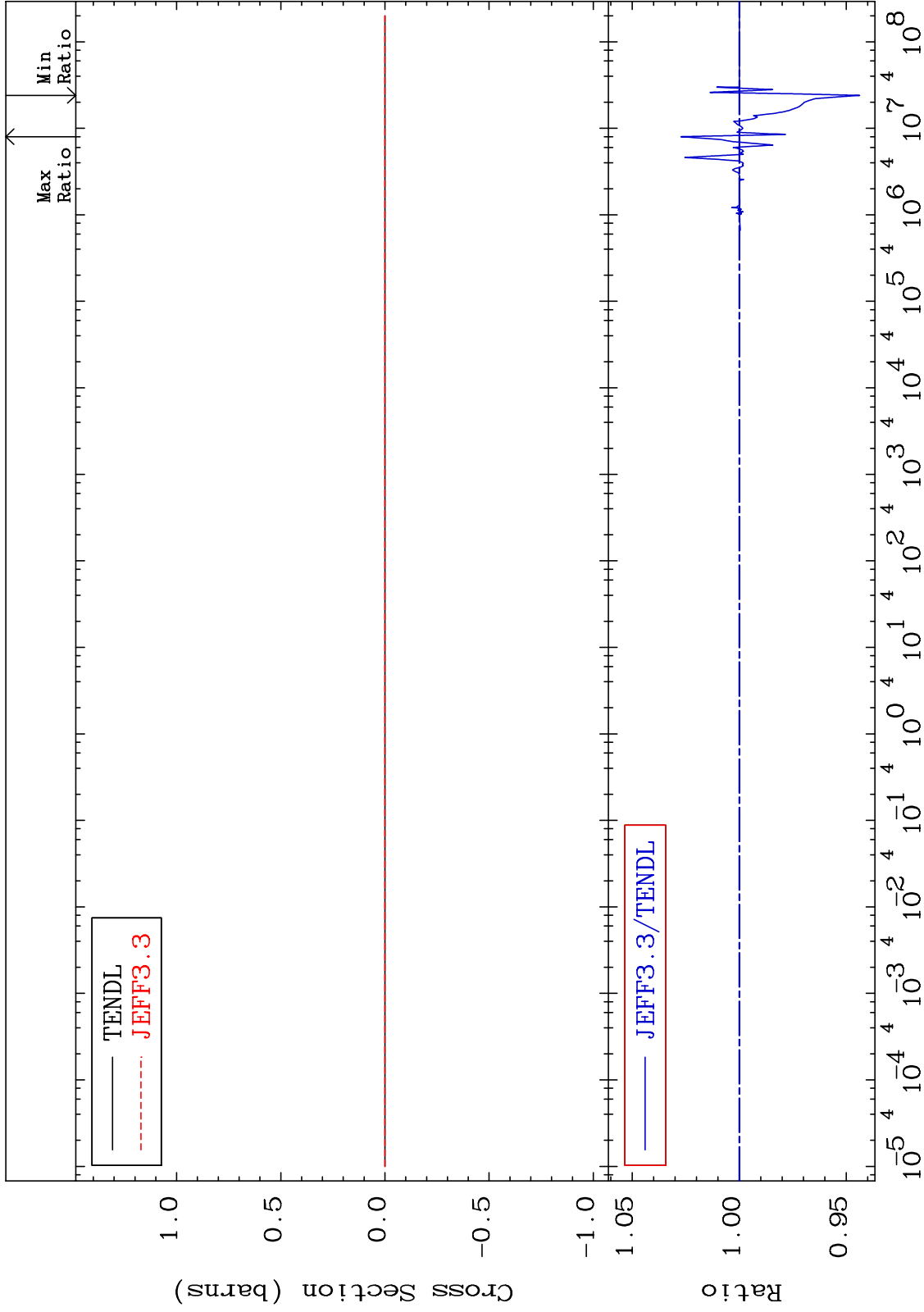
Incident Energy (eV)

44-Ru-98

MAT 4431

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

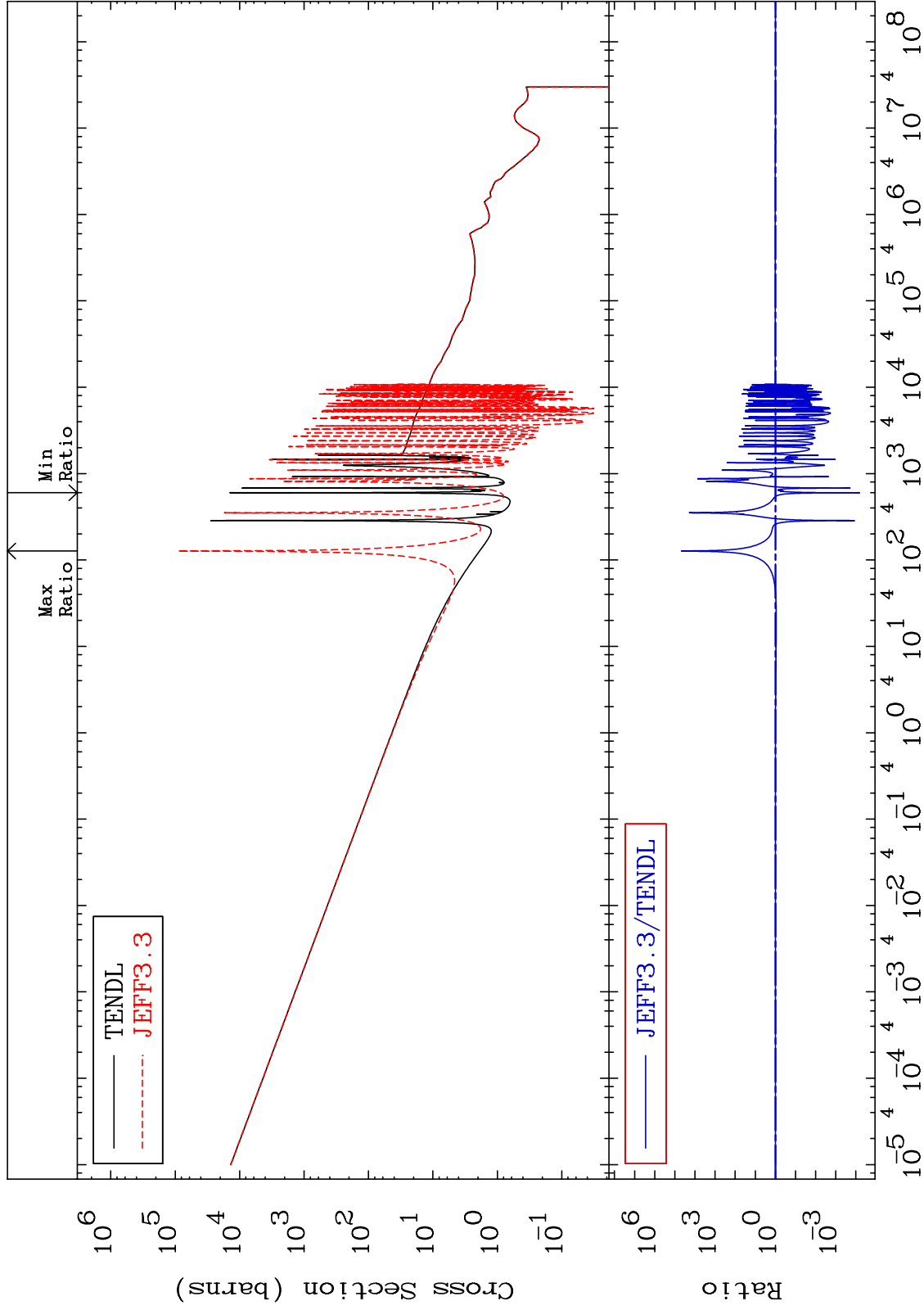
44-Ru-98
-5.622 To 2.731 %



MAT 4431

Kerma capture (mt102)
Cross Section

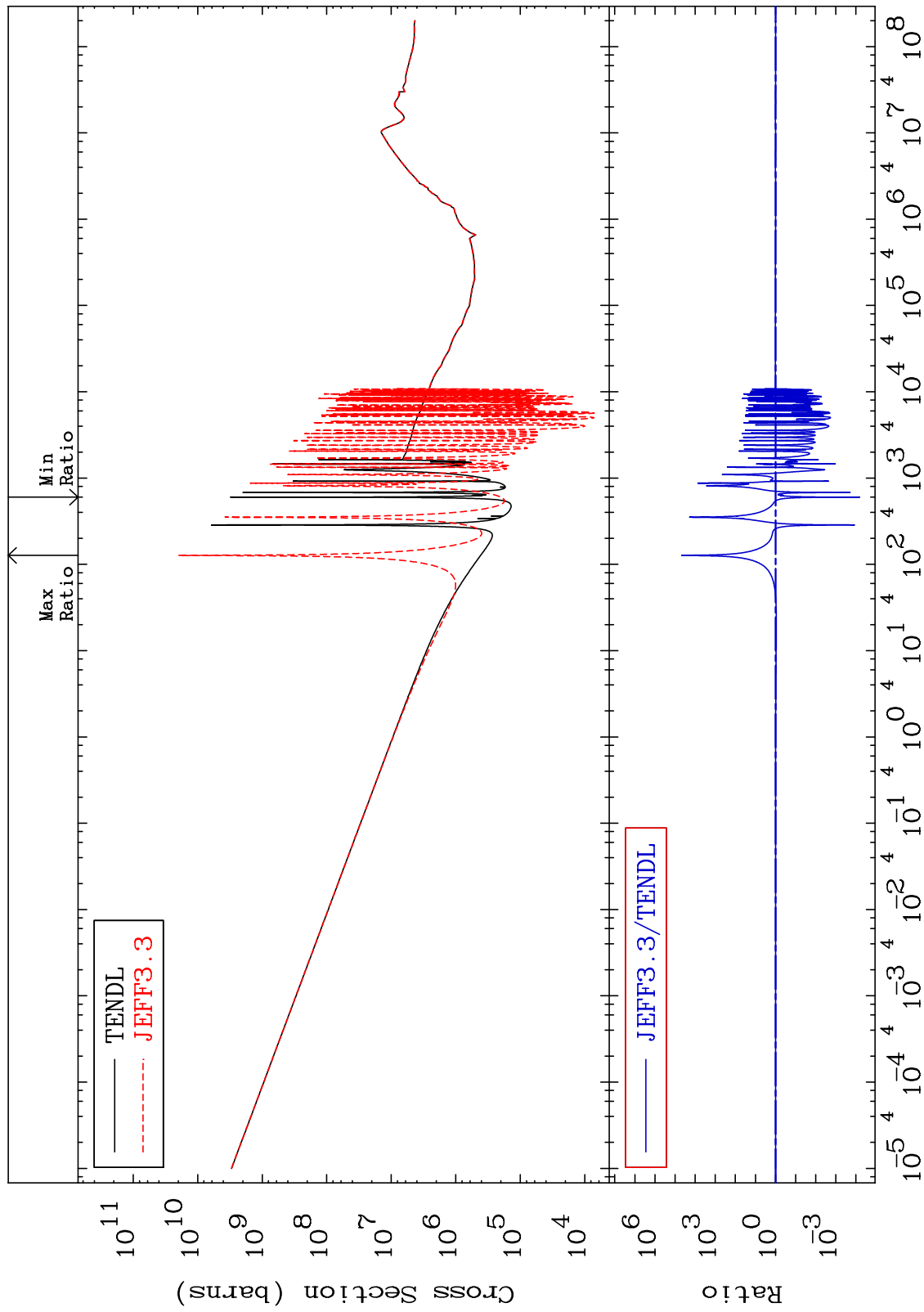
44-Ru-98
-99.99 To 9999. %



MAT 4431

Total photon (eV-barns)
Cross Section

44-Ru-98
-99.99 To 9999. %

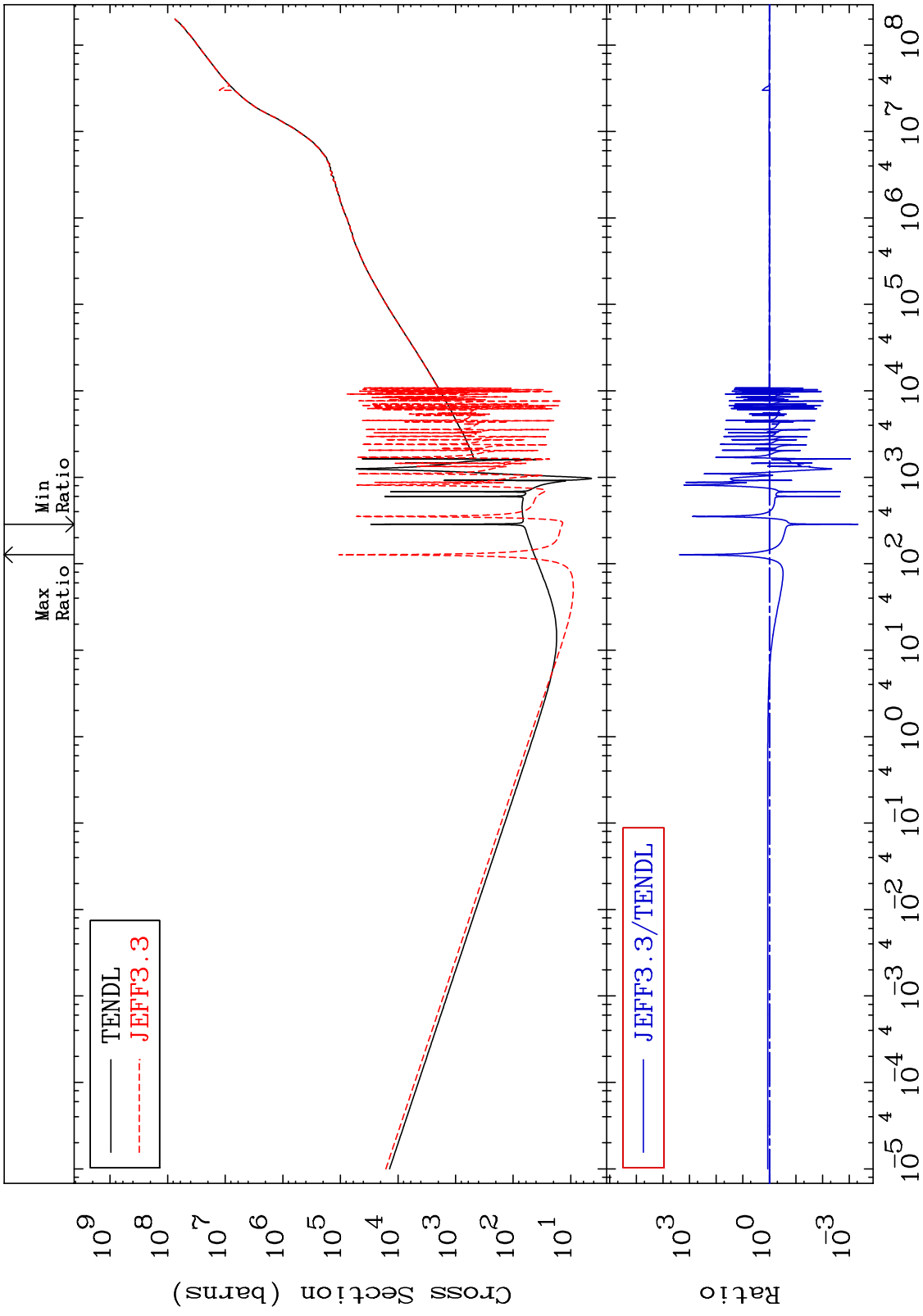


73

Incident Energy (eV)

44-Ru-98

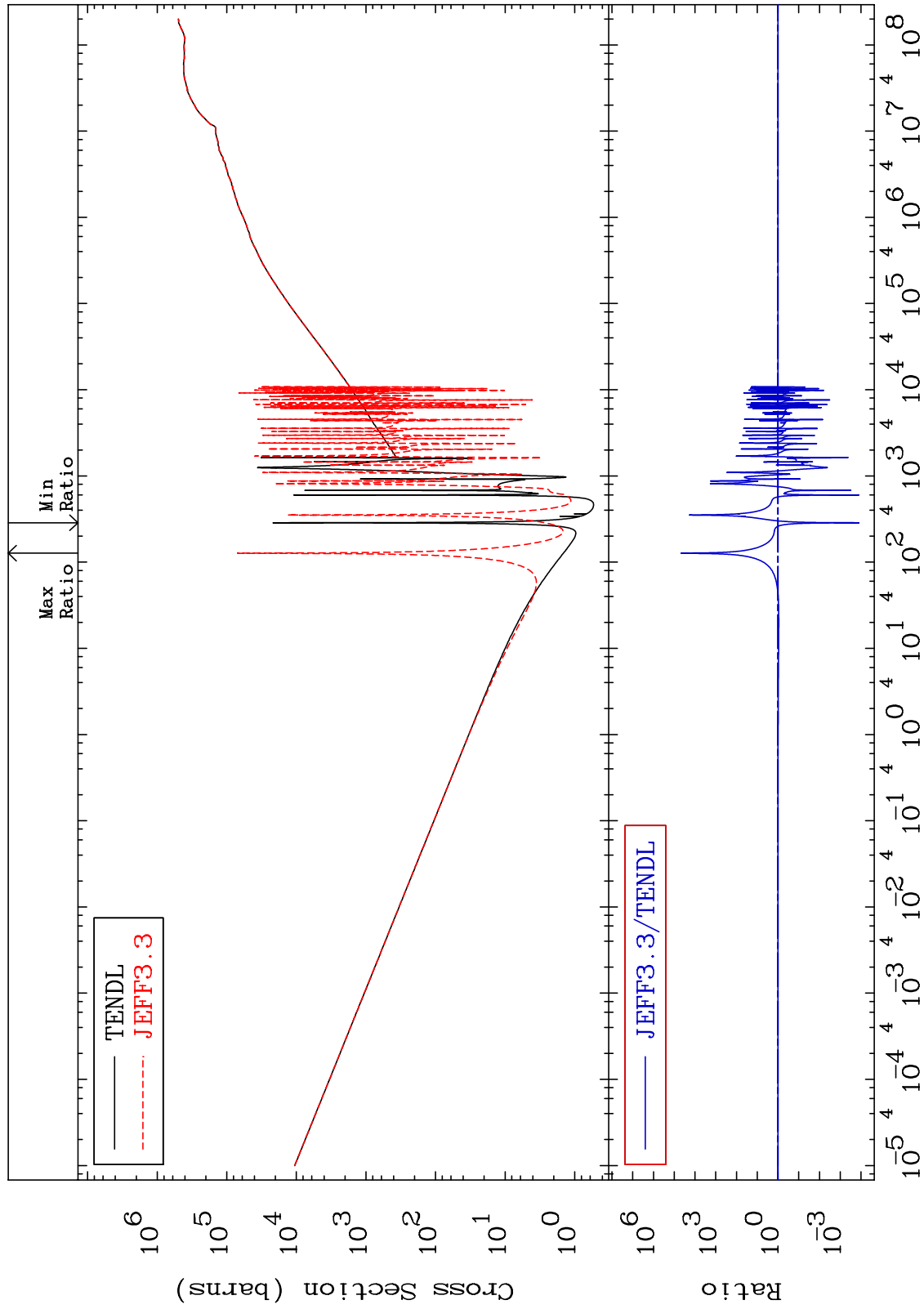
MAT 4431 Total kinematic kerma (high limit) 44-Ru-98
 Cross Section -99.95 To 9999. %



MAT 4431

Dpa total (eV-barns)
Cross Section

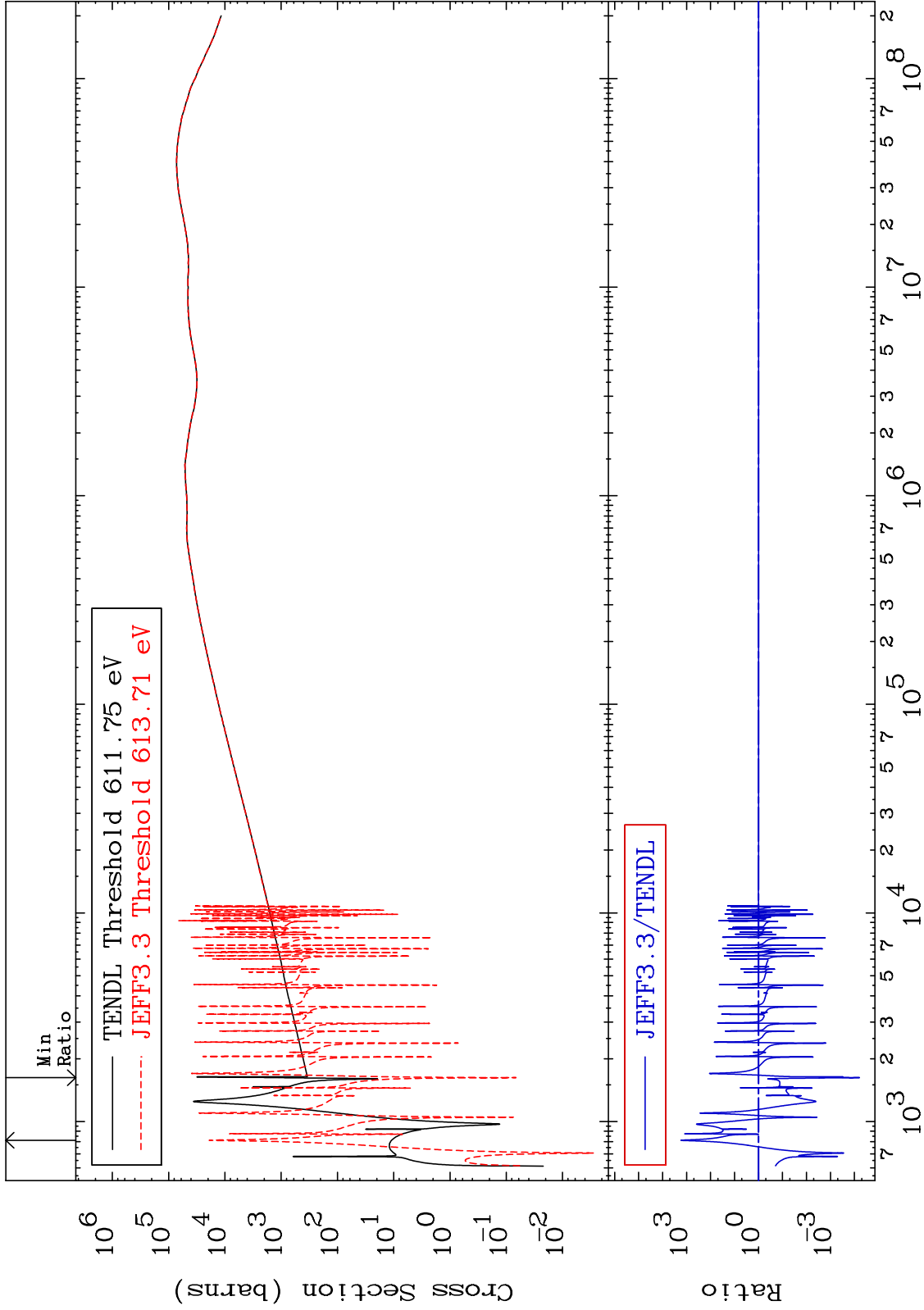
44-Ru-98
-99.99 To 9999. %



MAT 4431

Dpa elastic (mt2)
Cross Section

44-Ru-98
-99.99 To 9999. %



76

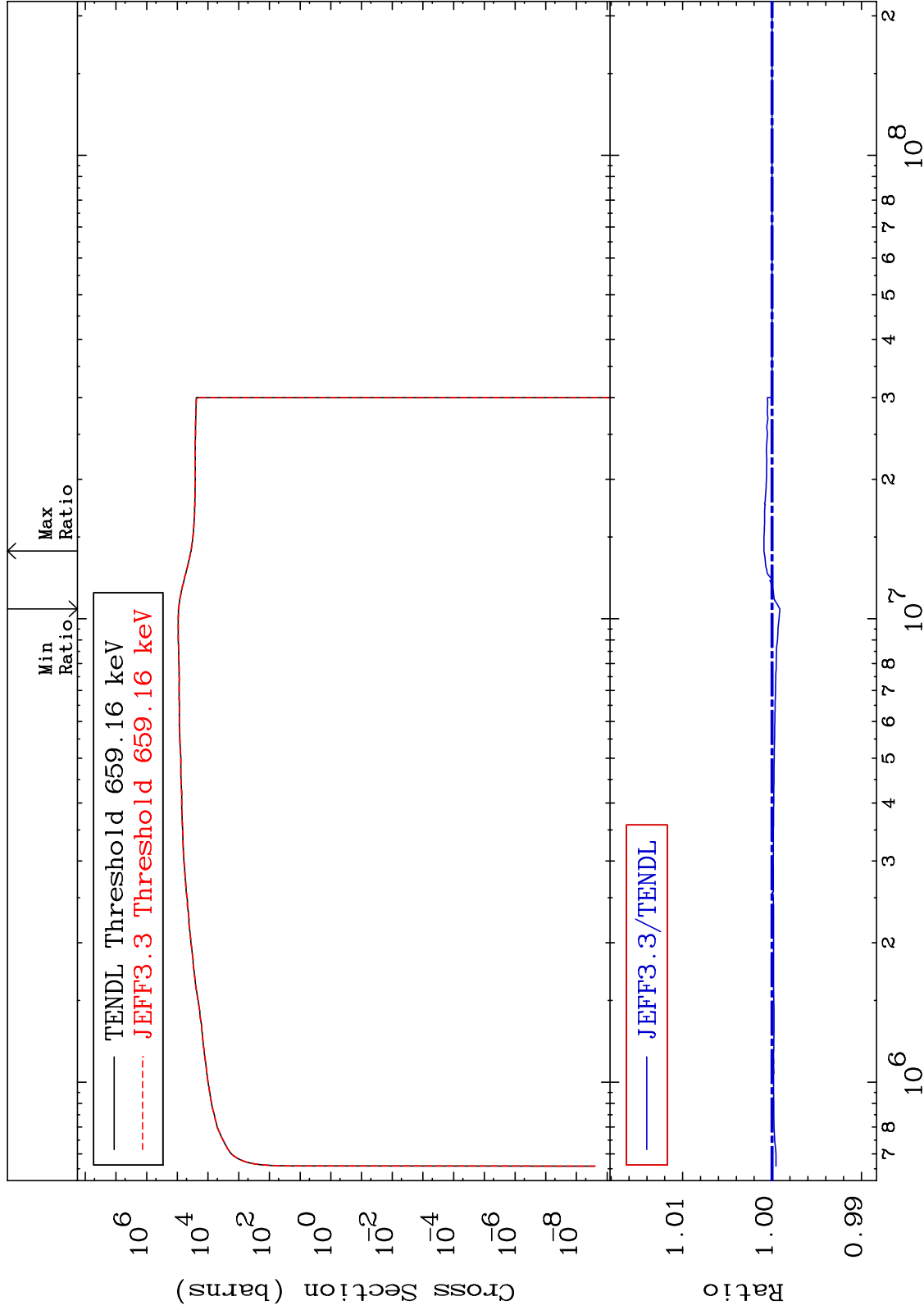
Incident Energy (eV)

44-Ru-98

MAT 4431

Dpa inelastic (mt51-91)
Cross Section

44-Ru-98
-0.087 To 0.091 %



77

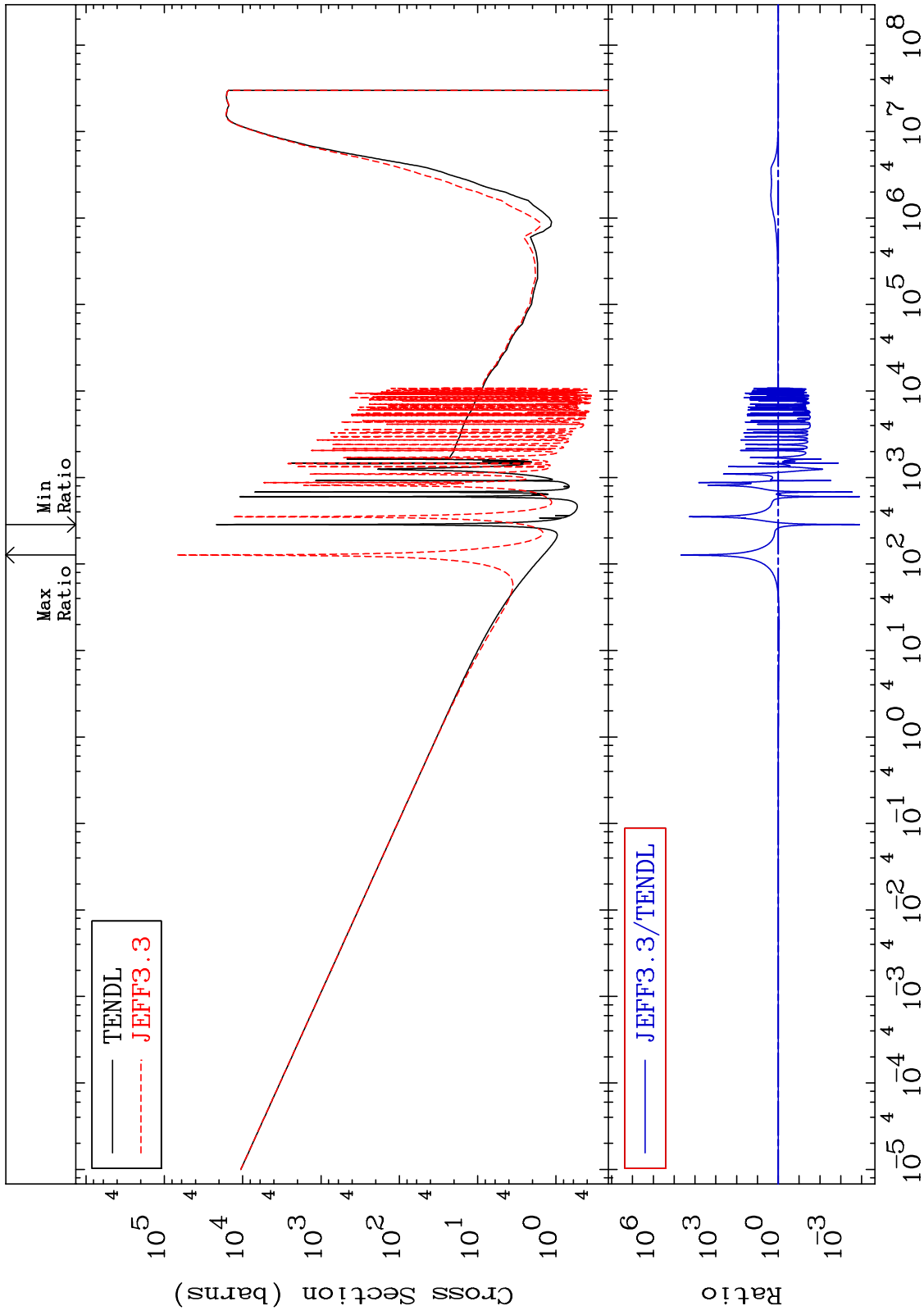
Incident Energy (eV)

44-Ru-98

MAT 4431

Dpa disappearance (mt102 -120)
Cross Section

44-Ru-98
-99.99 To 9999. %



78

Incident Energy (eV)

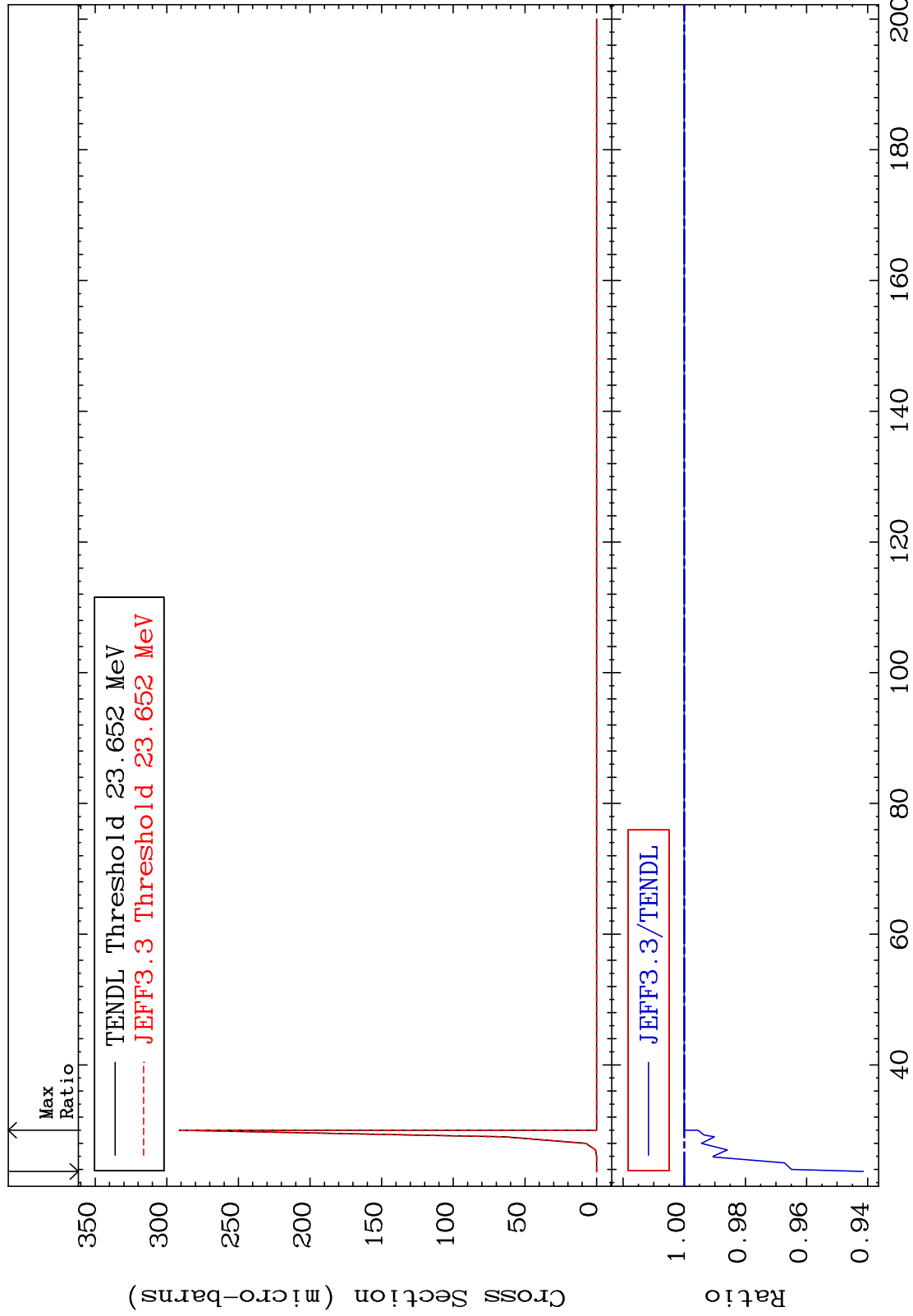
44-Ru-98

MAT 4431

(n,2n) d:43-Tc-95g

44-Ru-98

Radionuclide Production Cross Section -5.858 To 0.000 %



79

Incident Energy (MeV)

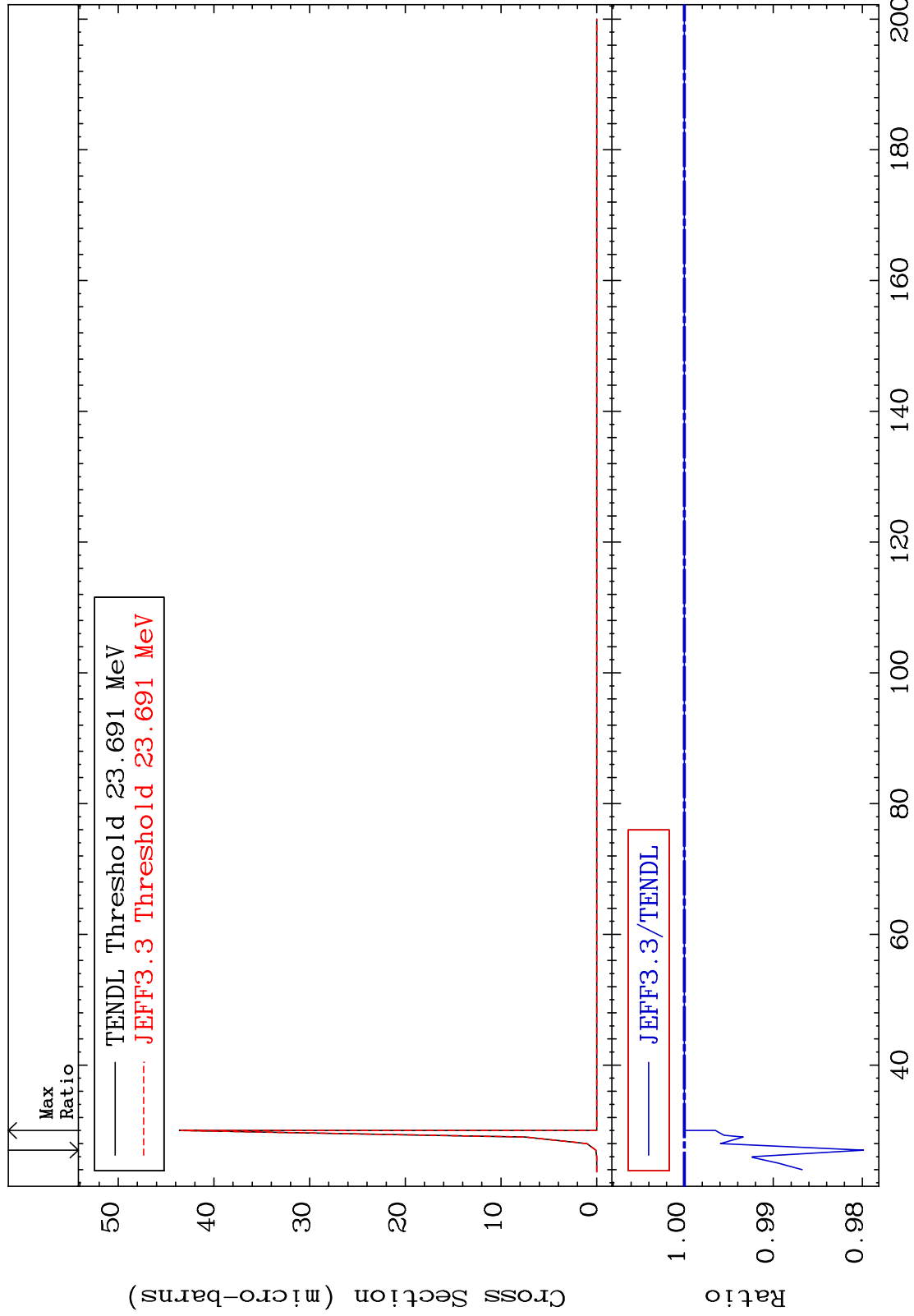
44-Ru-98

MAT 4431

(n,2n) d:43-Tc-95m1

44-Ru-98

Radionuclide Production Cross Section -2.014 To 0.000 %



80

Incident Energy (MeV)

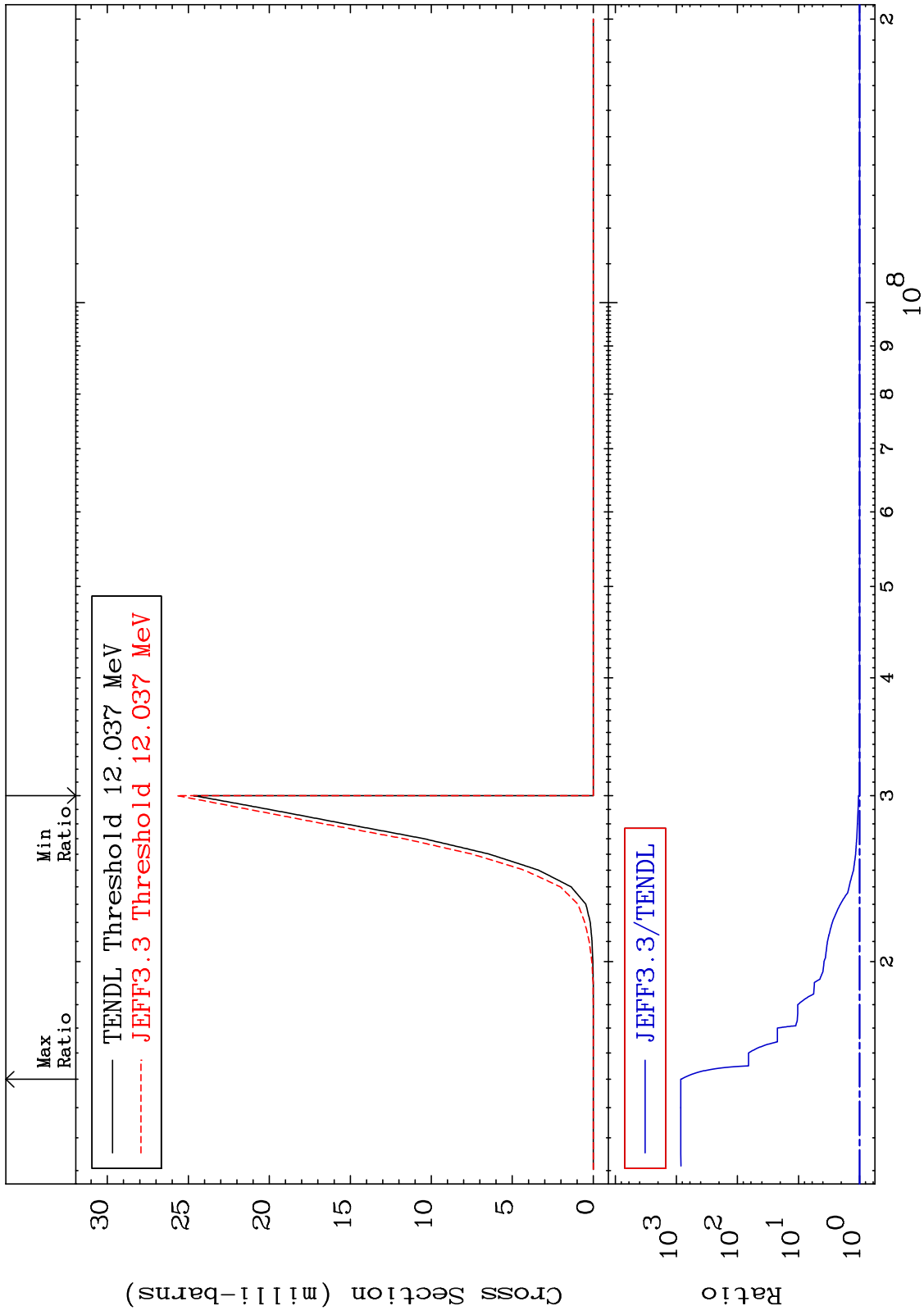
44-Ru-98

MAT 4431

(n,2n) α : 42-Mo-93g

44-Ru-98

Radionuclide Production Cross Section 0.000 To 9999. %

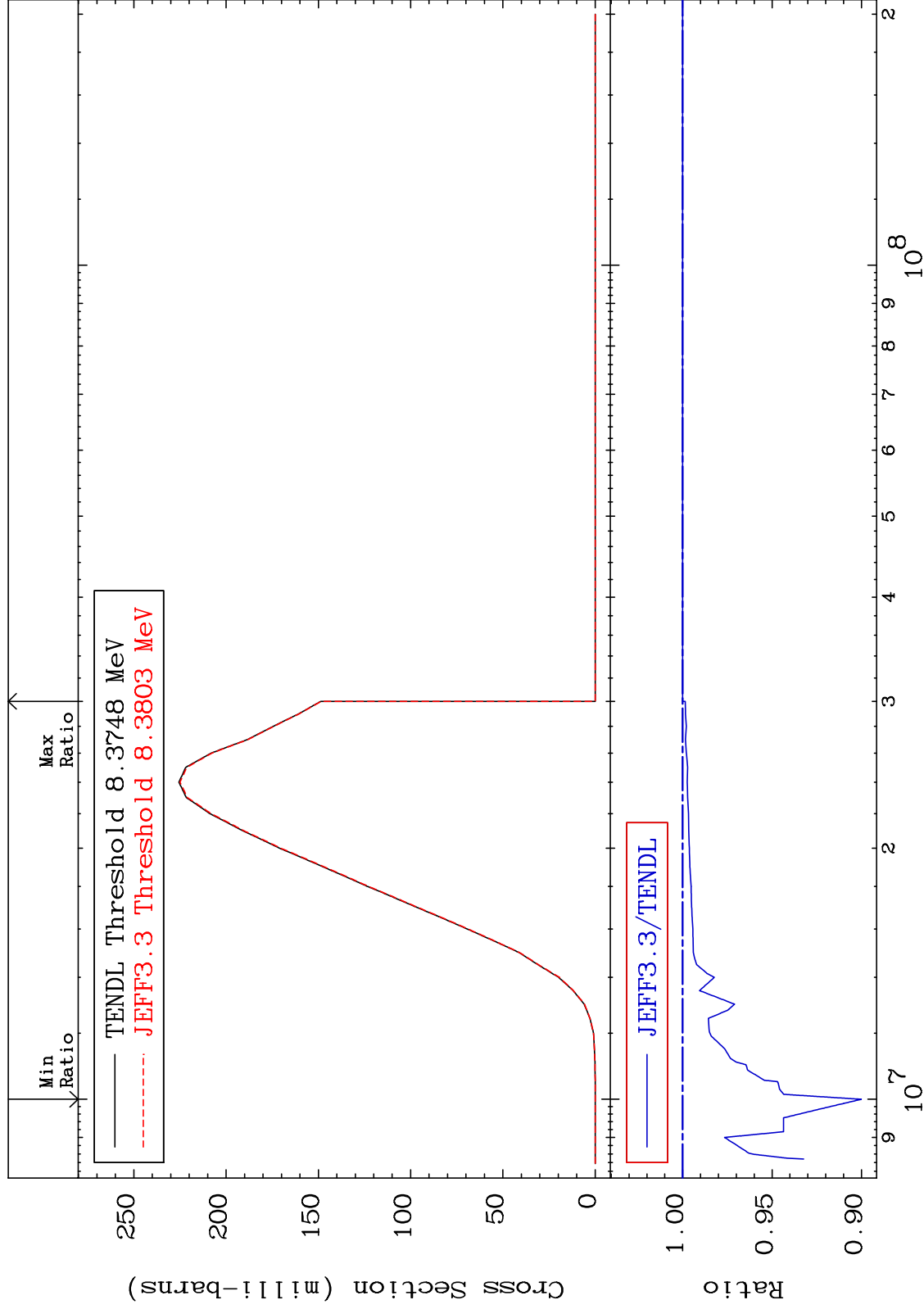


MAT 4431

(n, n') p:43-Tc-97g

44-Ru-98

Radionuclide Production Cross Section -9.994 To 0.000 %

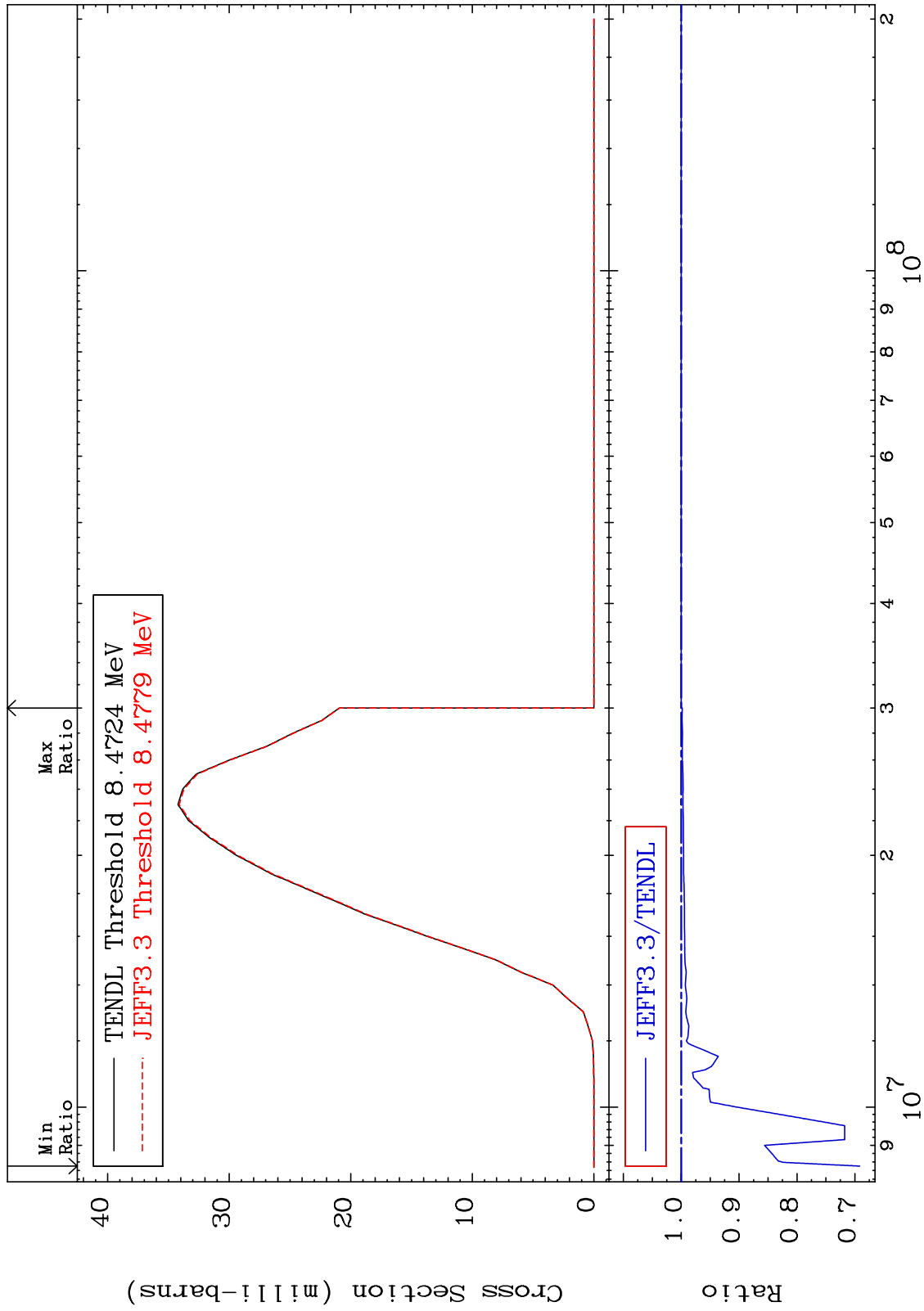


MAT 4431

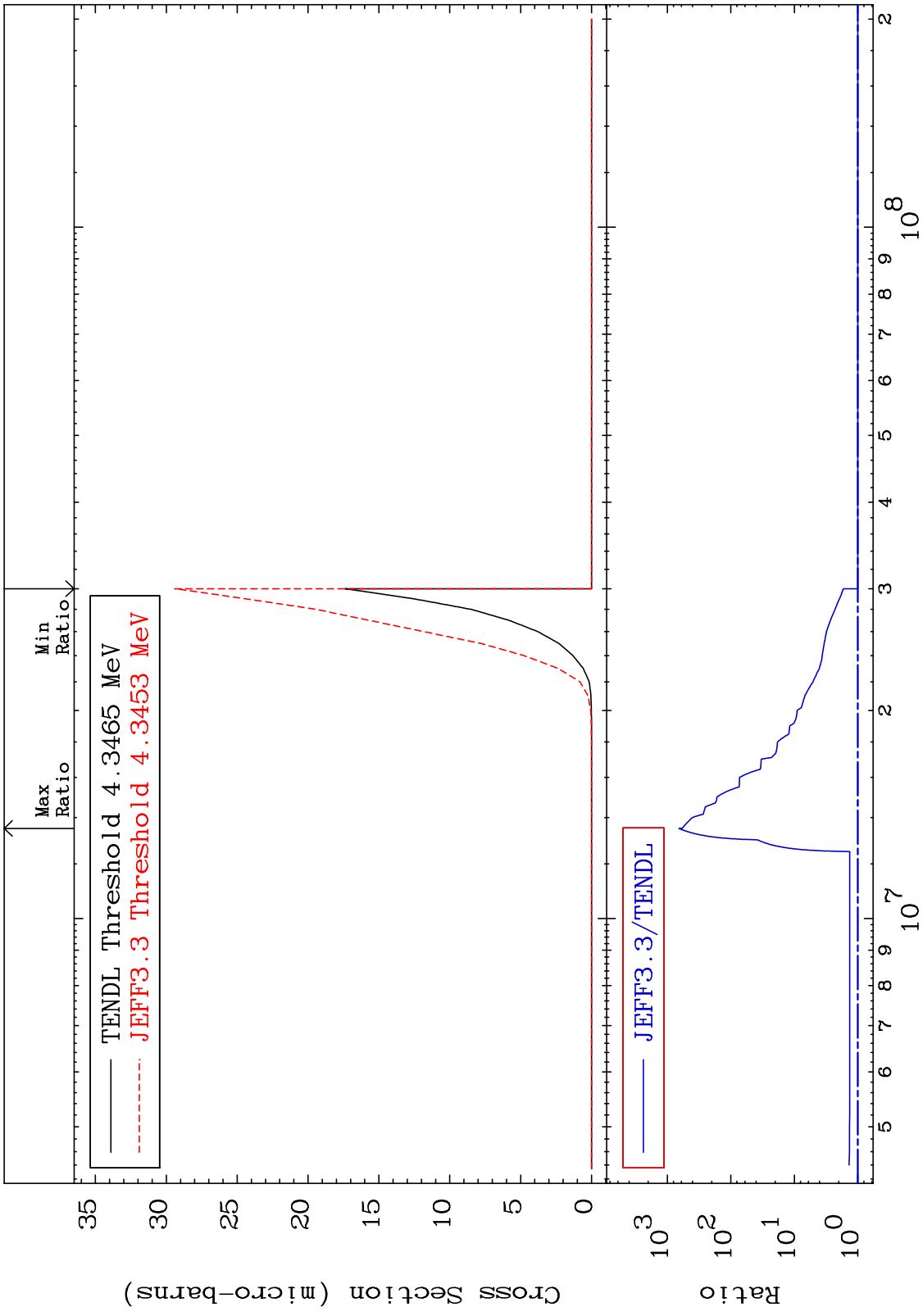
(n, n') p:43-Tc-97m1

44-Ru-98

Radionuclide Production Cross Section -30.85 To 0.000 %



MAT 4431 (n, n') 2α : 40-Zr-90g 44-Ru-98
 Radionuclide Production Cross Section 0.000 To 9999. %

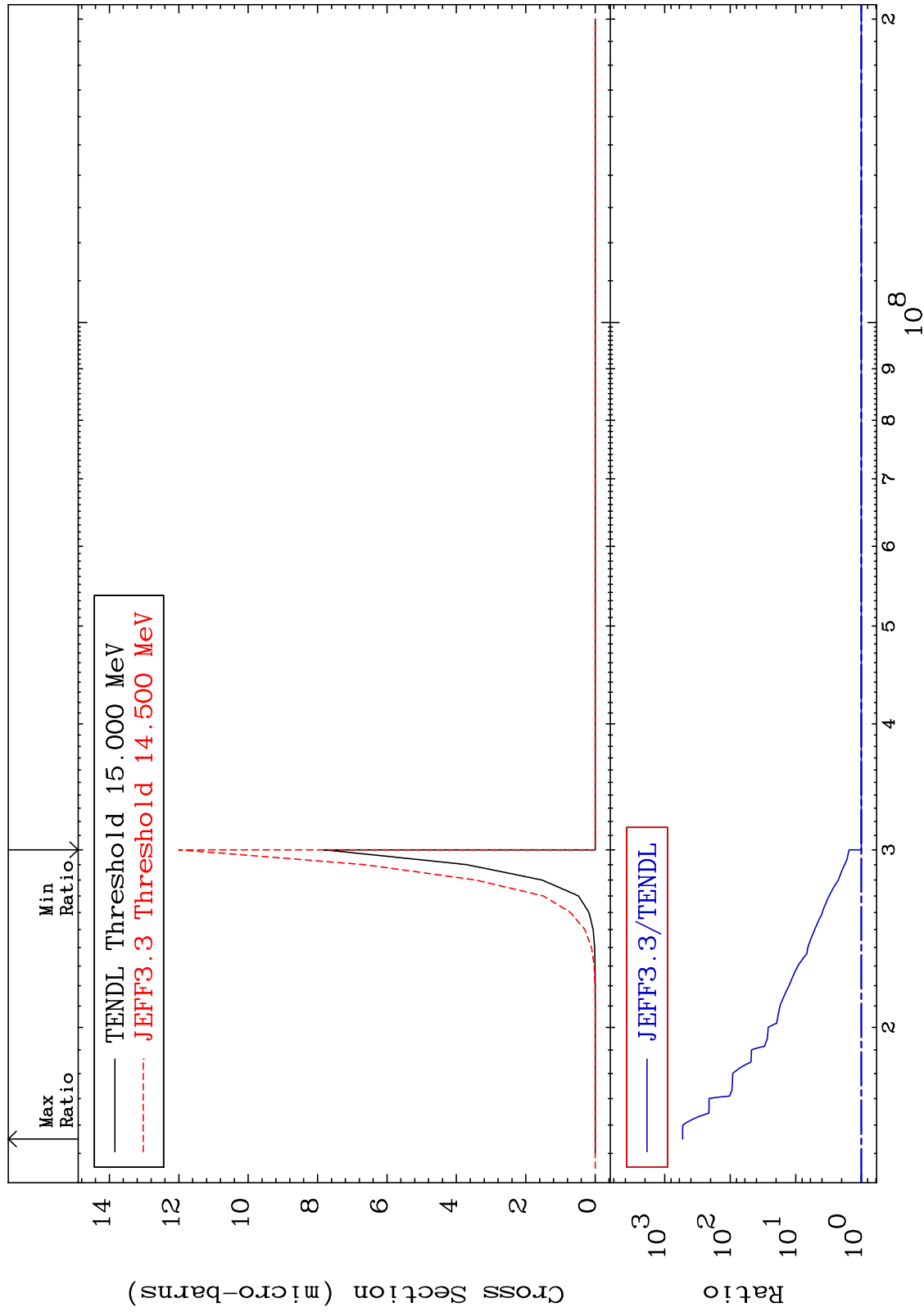


MAT 4431

(n, n') 2α :40-Zr-90m3

44-Ru-98

Radionuclide Production Cross Section 0.000 To 9999. %



85

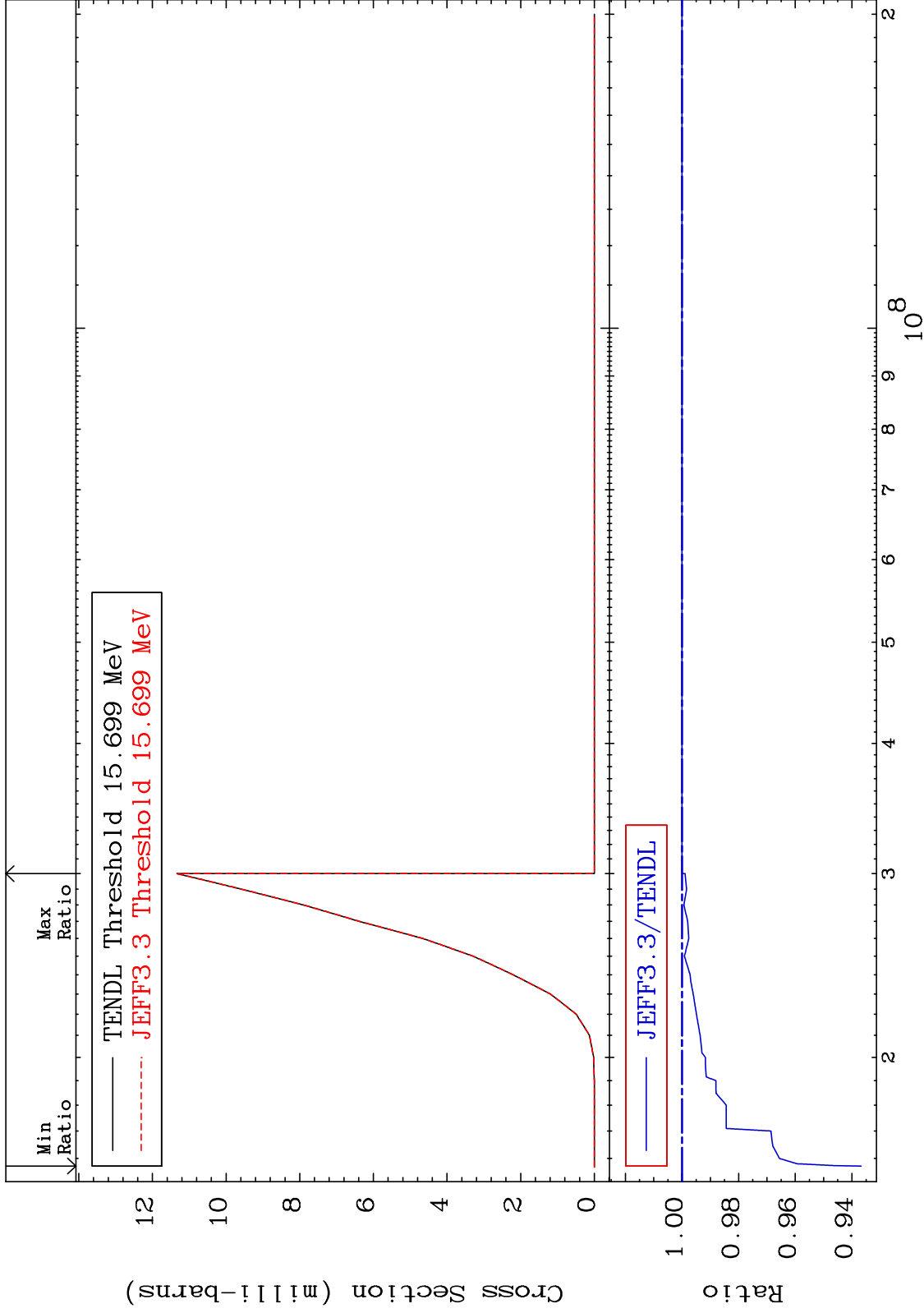
44-Ru-98

MAT 4431

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

44-Ru-98

Radionuclide Production Cross Section -6.327 To 0.000 %



86

Incident Energy (eV)

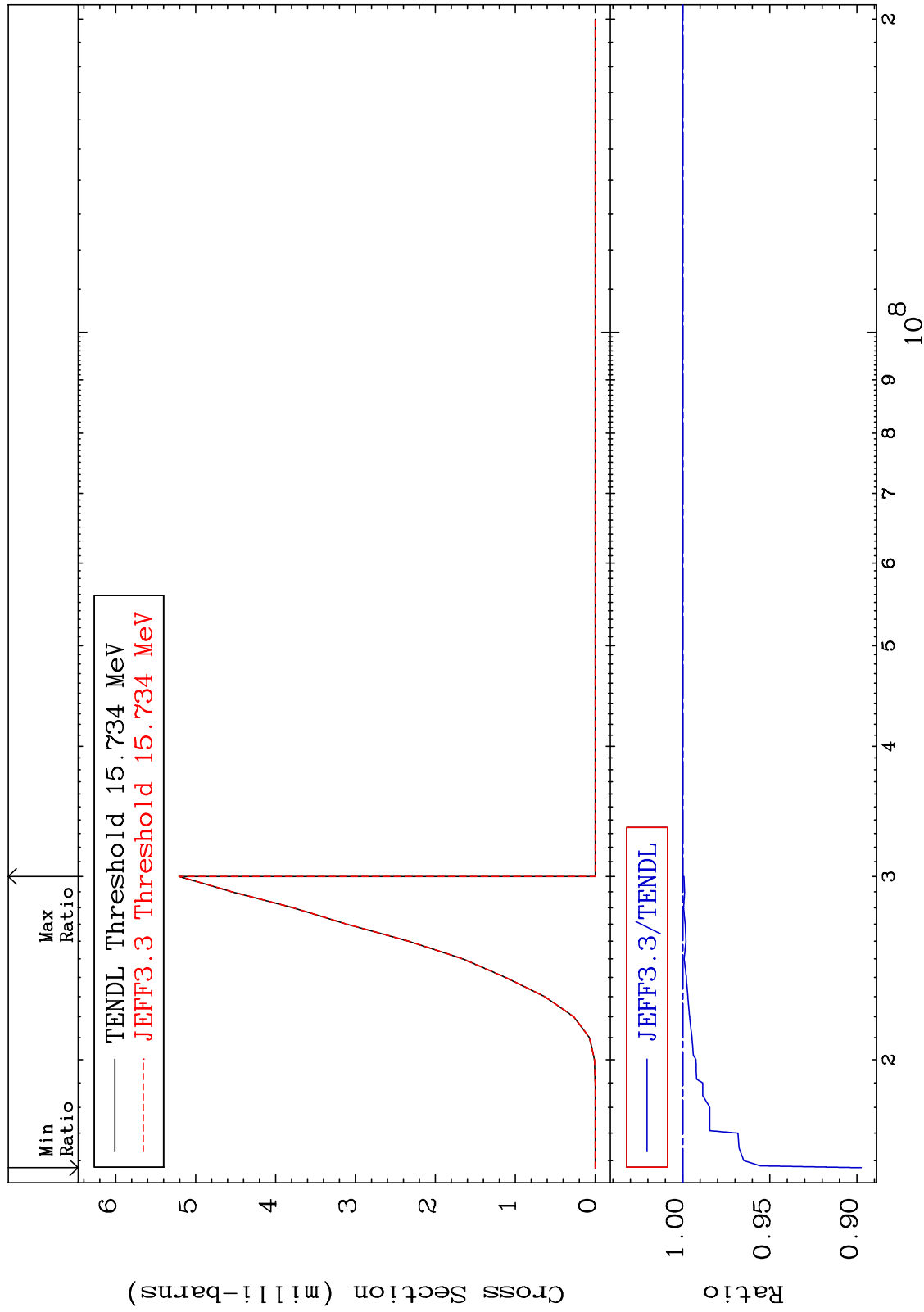
44-Ru-98

MAT 4431

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

44-Ru-98

Radionuclide Production Cross Section -10.25 To 0.000 %



87

Incident Energy (eV)

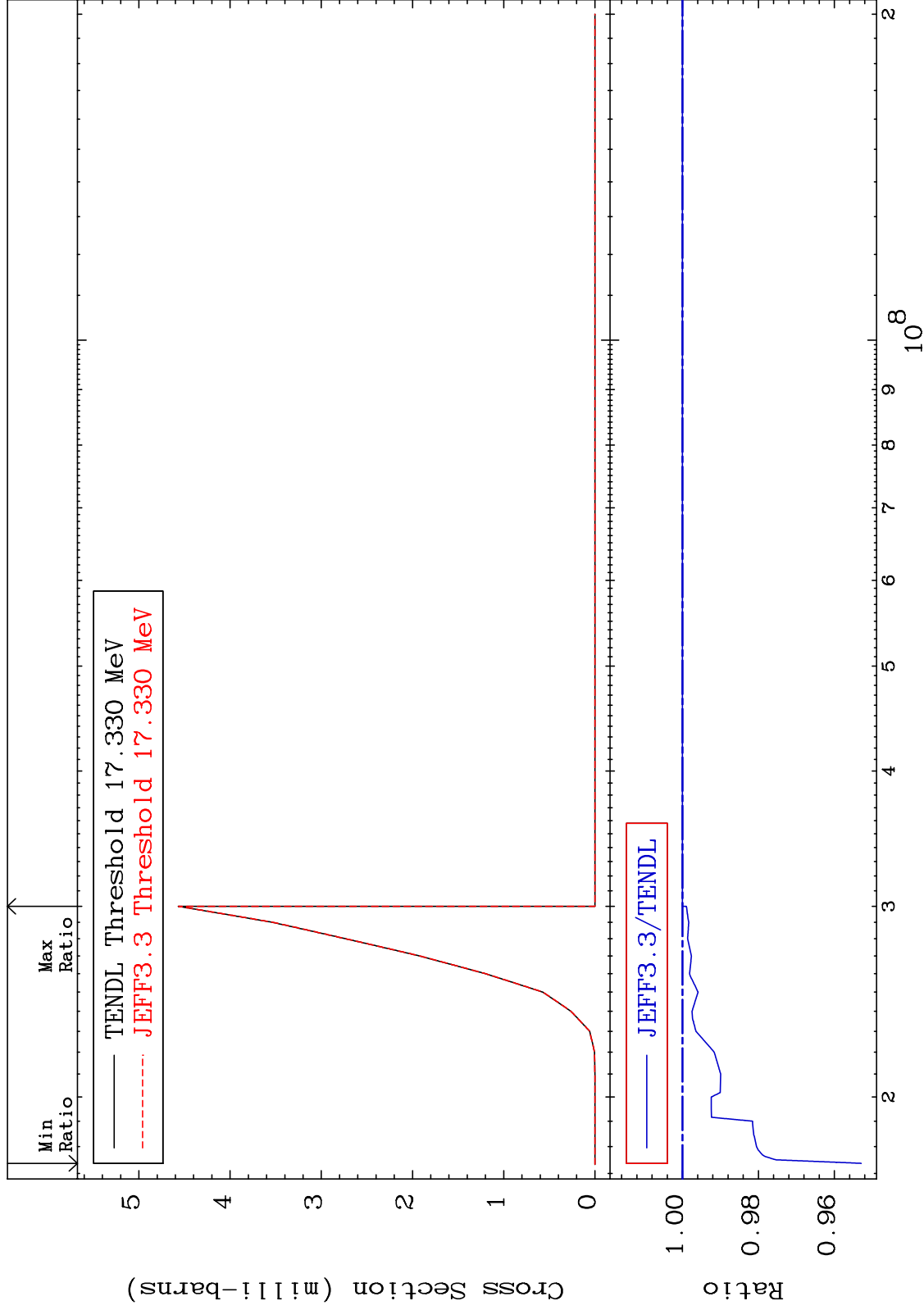
44-Ru-98

MAT 4431

(n, n') t: 43-Tc-95g

44-Ru-98

Radionuclide Production Cross Section -4.707 To 0.000 %

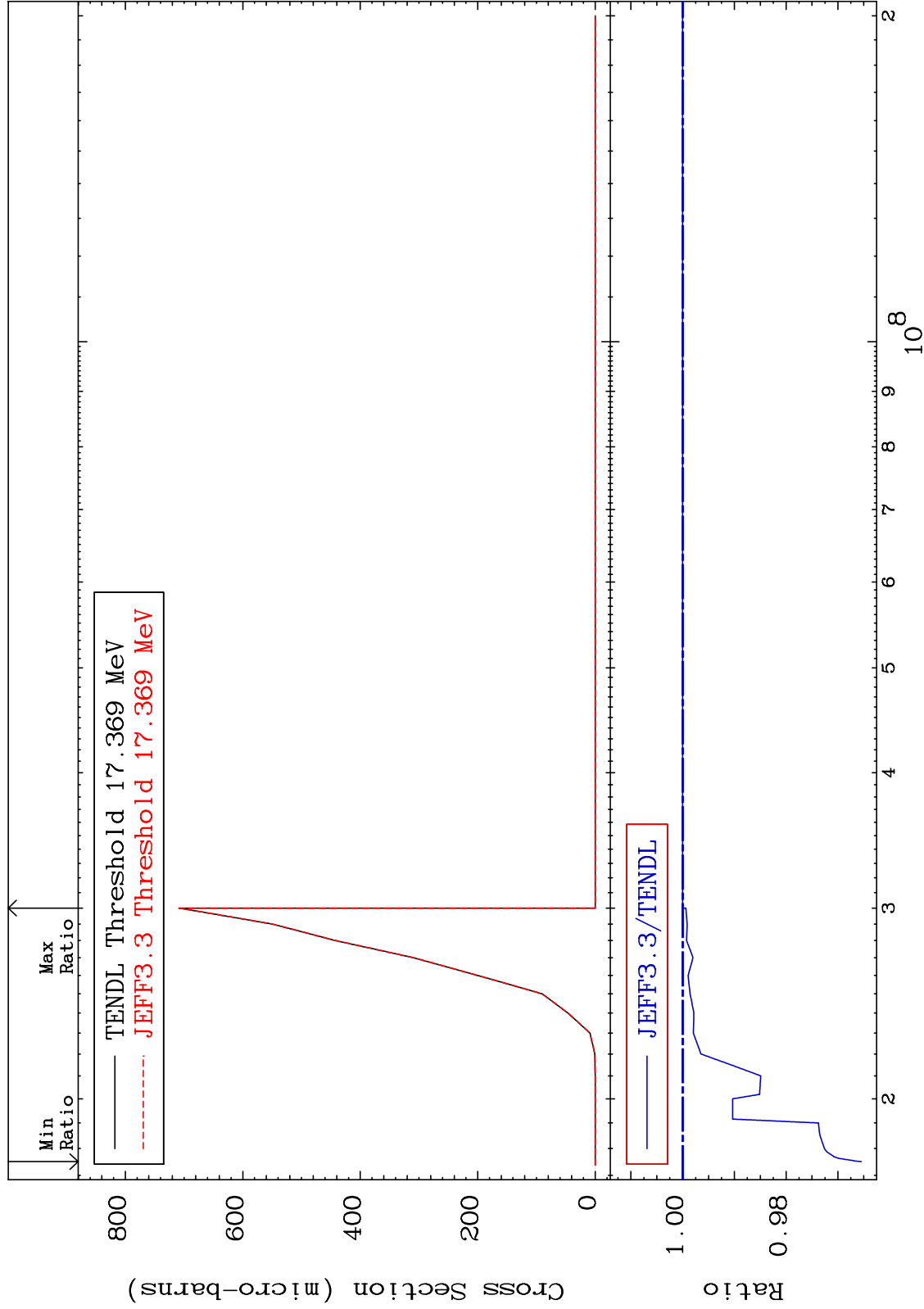


MAT 4431

(n, n') t:43-Tc-95m1

44-Ru-98

Radionuclide Production Cross Section -3.454 To 0.000 %



89

Incident Energy (eV)

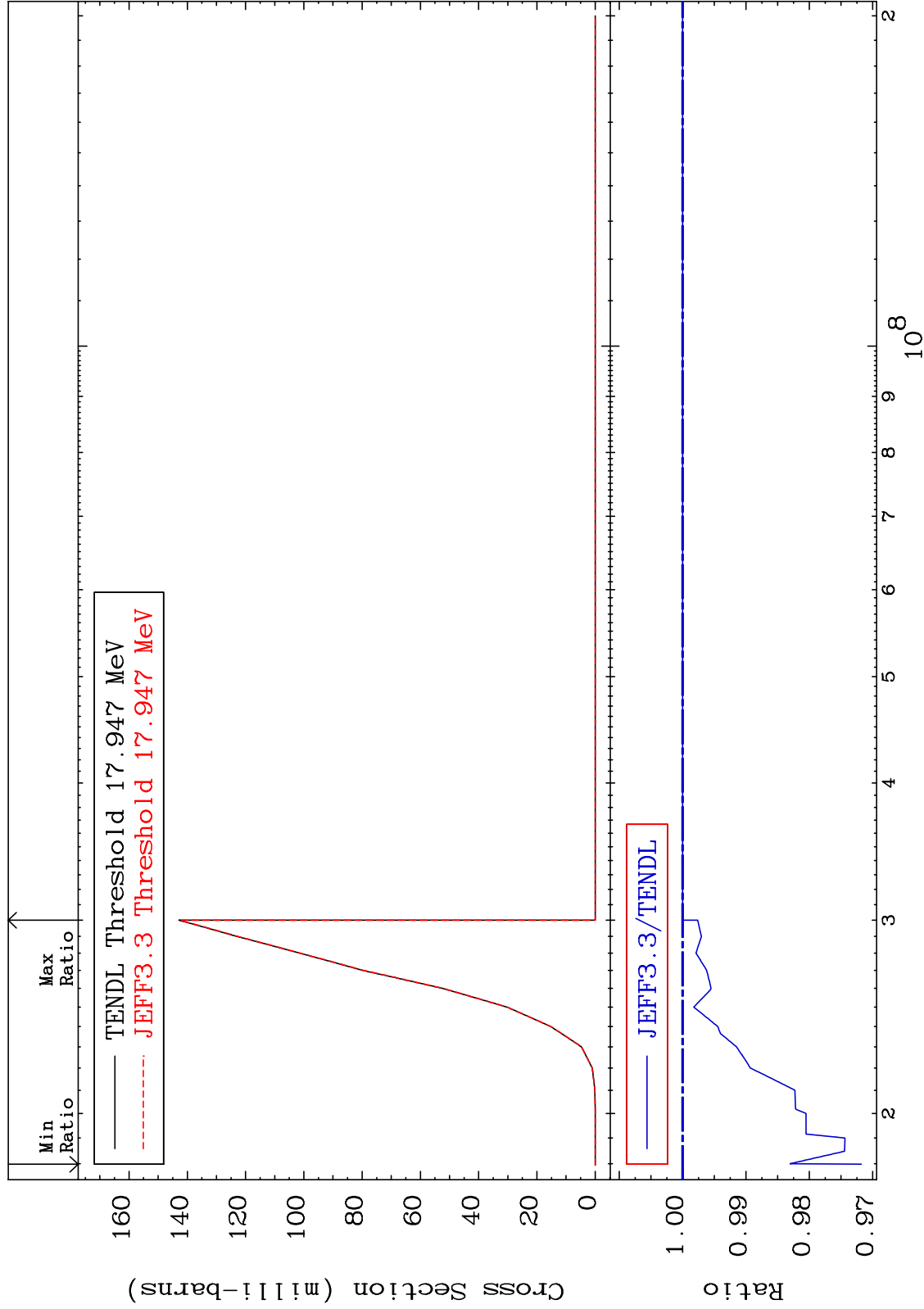
44-Ru-98

MAT 4431

(n,2n) p:43-Tc-96g

44-Ru-98

Radionuclide Production Cross Section -2.820 To 0.000 %

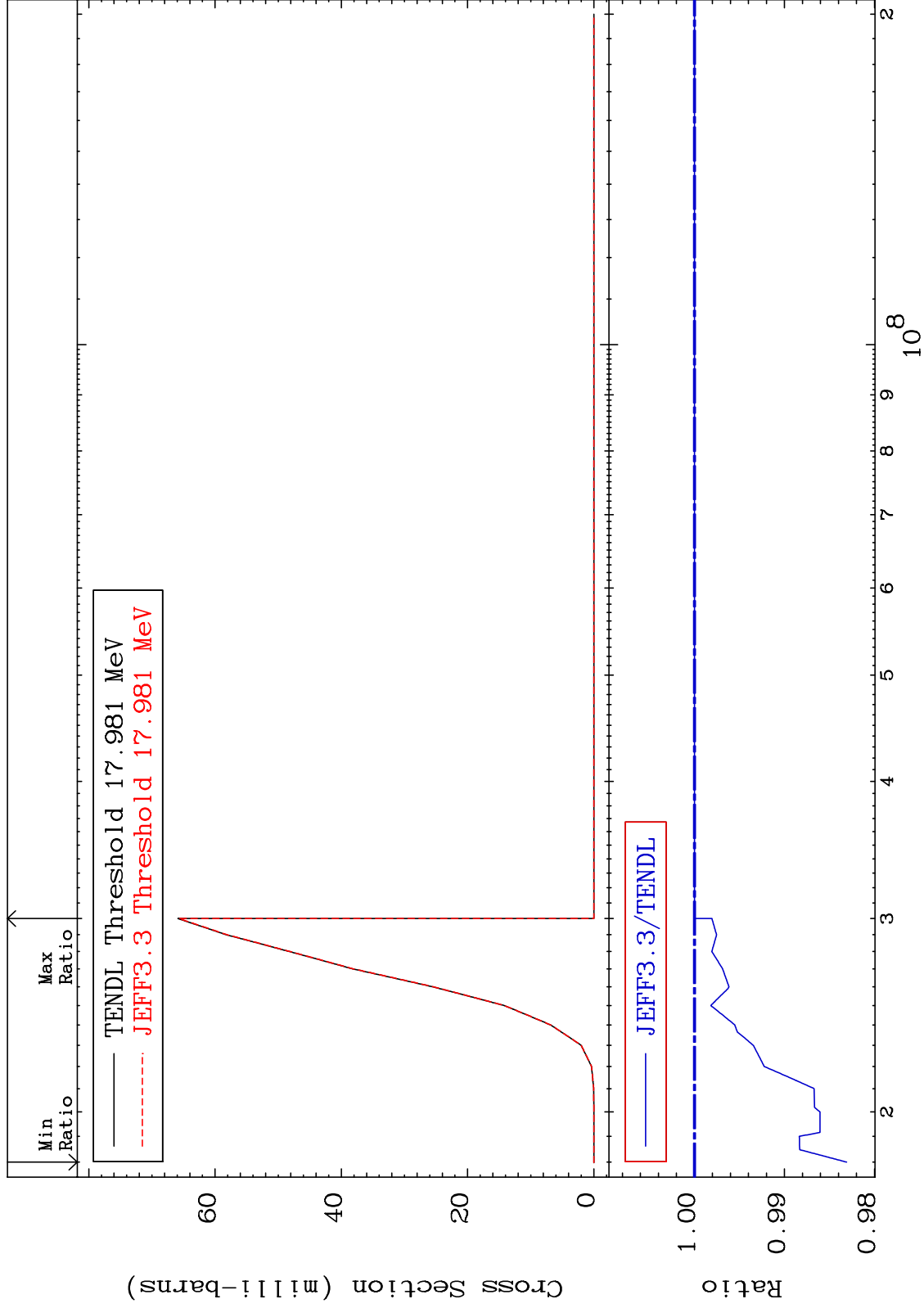


MAT 4431

(n,2n) p:43-Tc-96m1

44-Ru-98

Radionuclide Production Cross Section -1.690 To 0.000 %

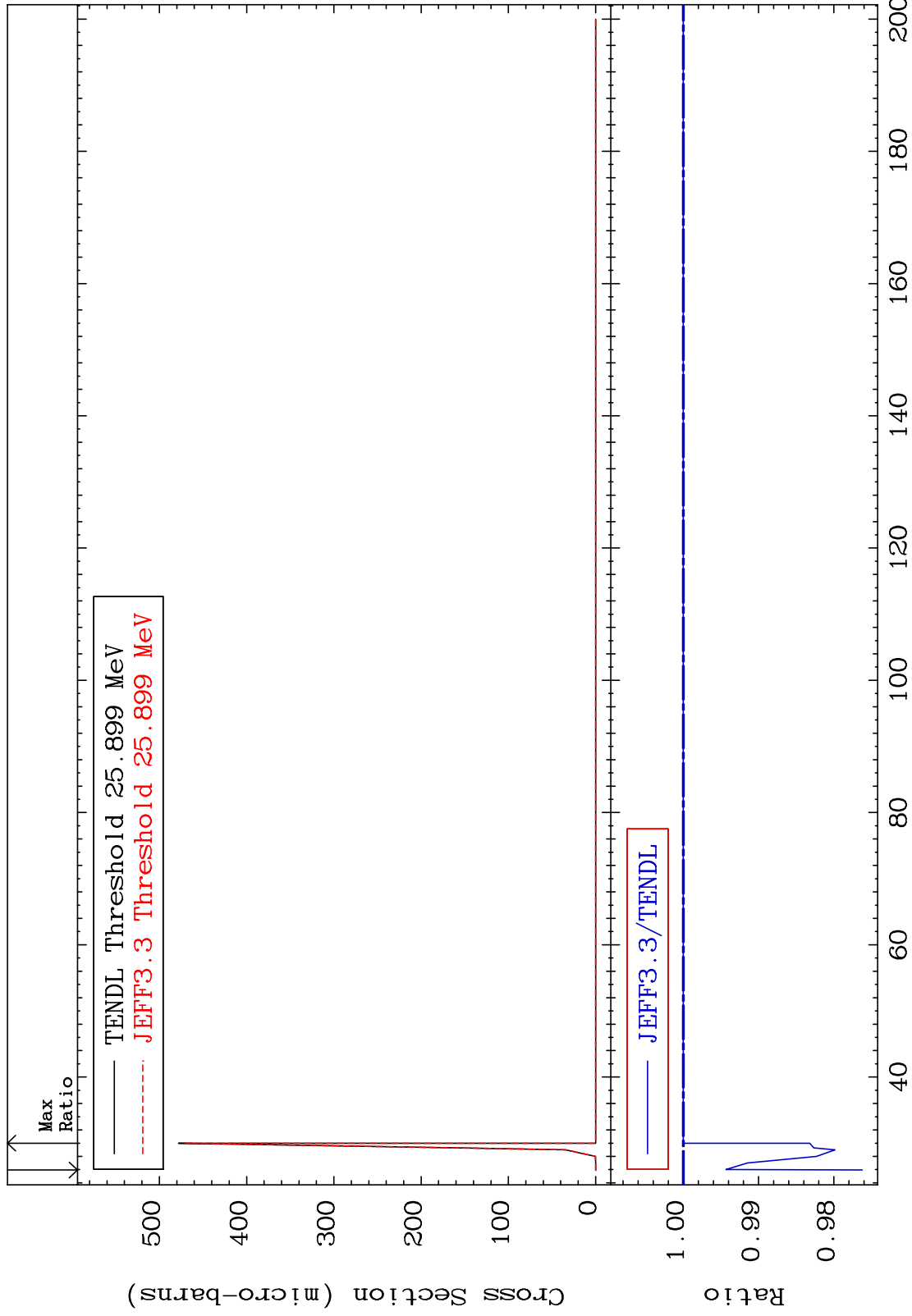


MAT 4431

(n, 3n) p:43-Tc-95g

44-Ru-98

Radionuclide Production Cross Section -2.378 To 0.000 %



92

Incident Energy (MeV)

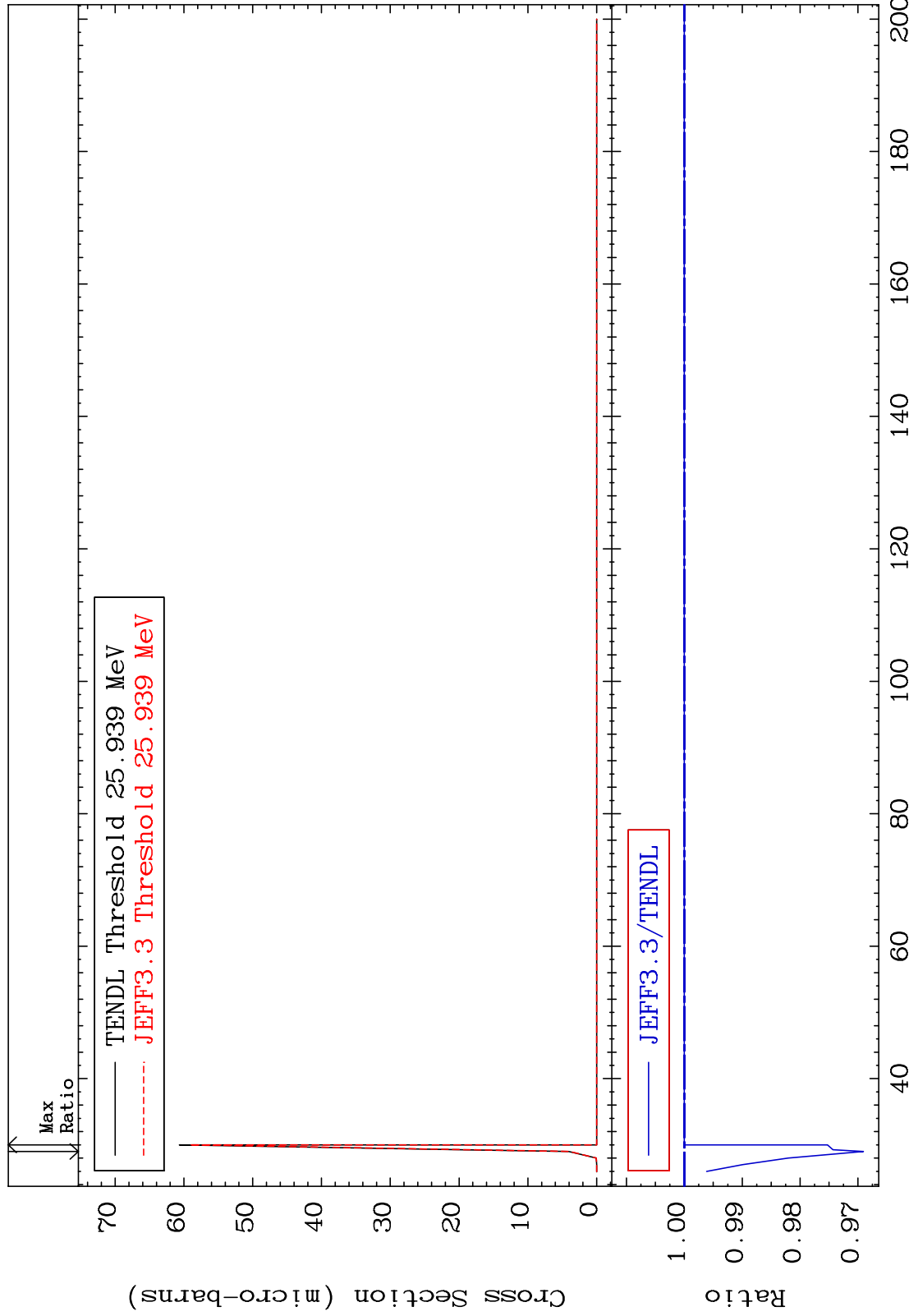
44-Ru-98

MAT 4431

(n,3n) p:43-Tc-95m1

44-Ru-98

Radionuclide Production Cross Section -3.095 To 0.000 %

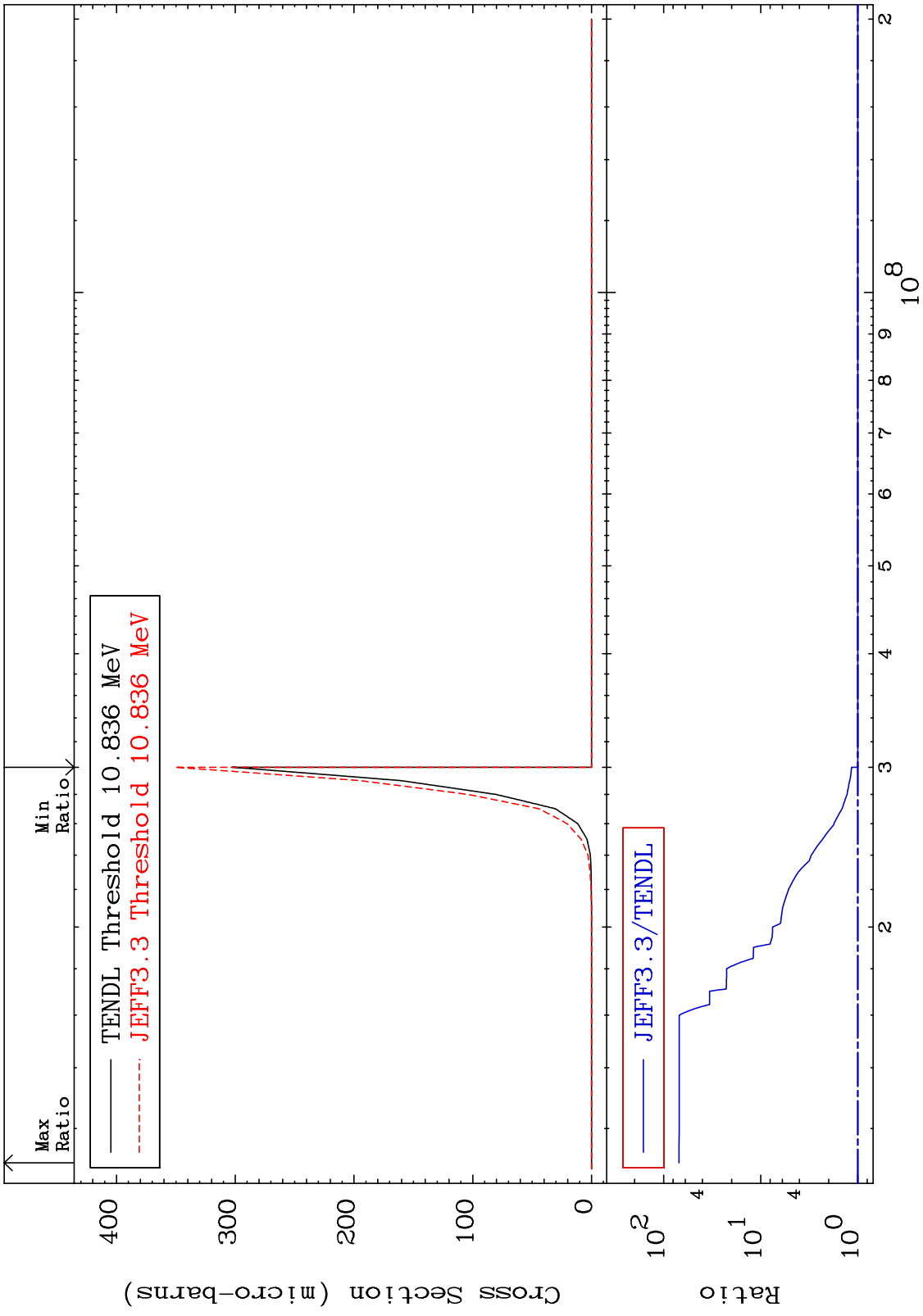


93

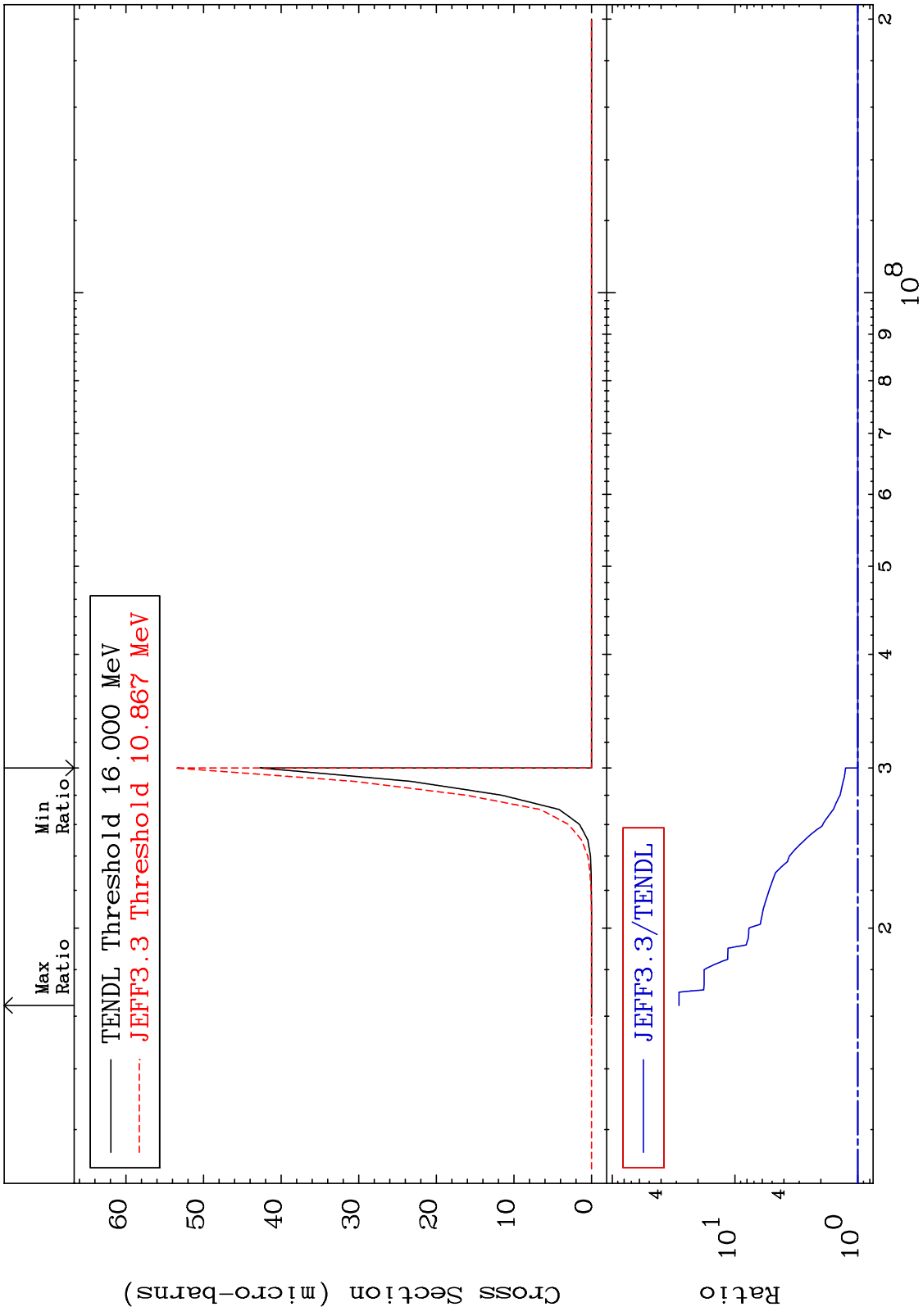
Incident Energy (MeV)

44-Ru-98

MAT 4431 (n,n') p α :41-Nb-93g 44-Ru-98
 Radionuclide Production Cross Section 0.000 To 6860. %



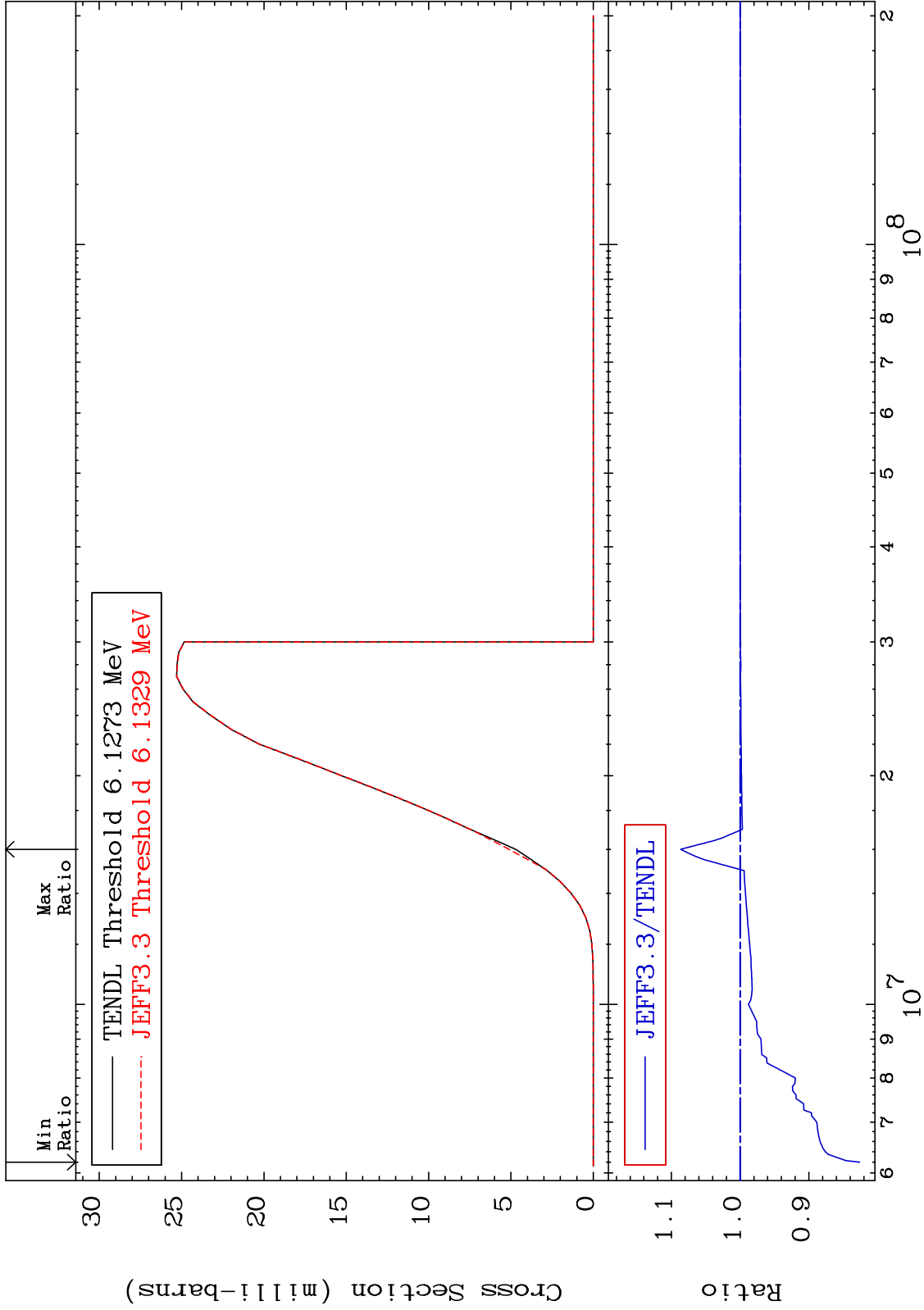
MAT 4431 (n,n') p α :41-Nb-93m1 44-Ru-98
 Radionuclide Production Cross Section 0.000 To 2756. %



MAT 4431

(n,d):43-Tc-97g
Radionuclide Production Cross Section -17.38 To 8.630 %

44-Ru-98



96

Incident Energy (eV)

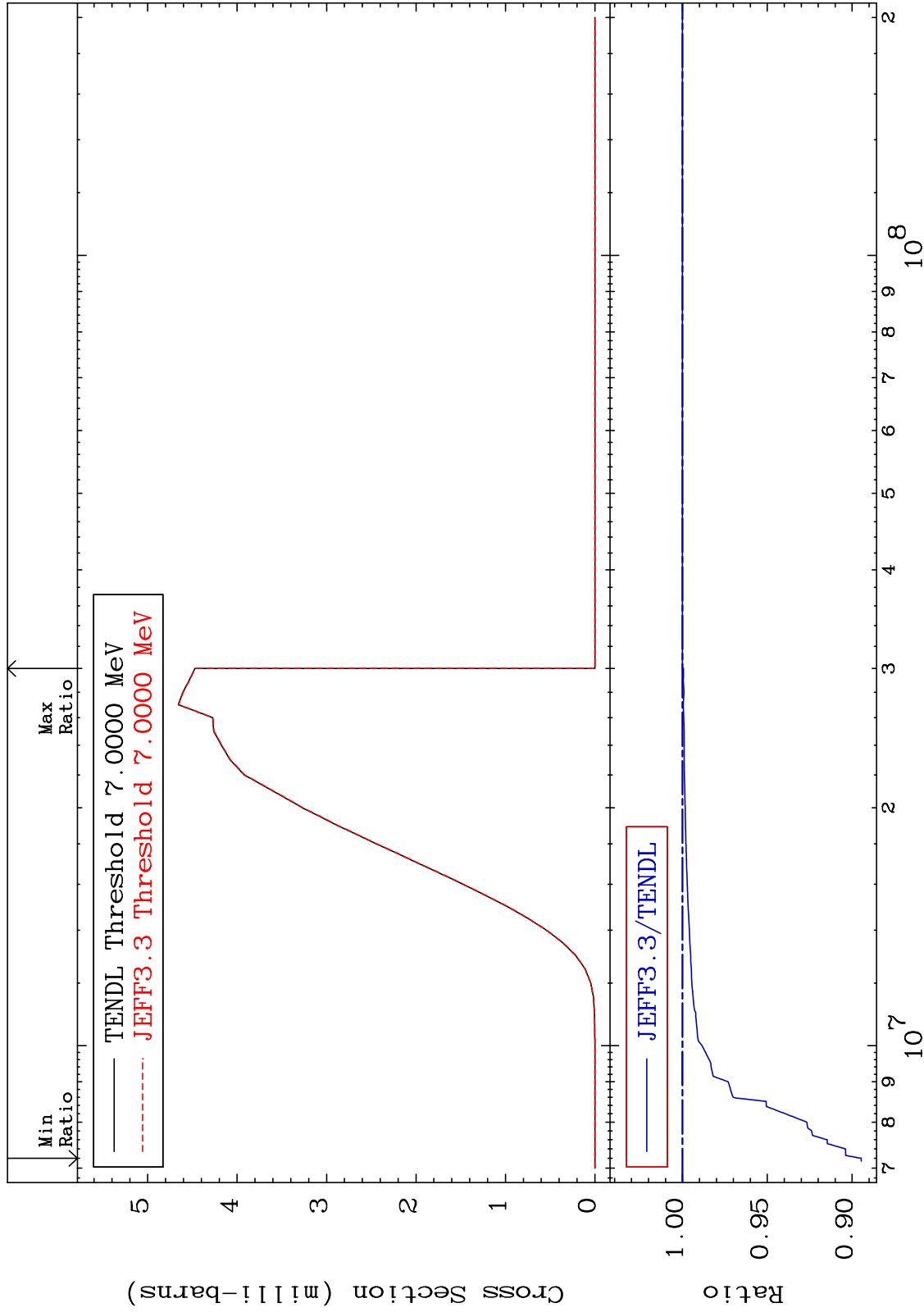
44-Ru-98

MAT 4431

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

44-Ru-98

Radionuclide Production Cross Section -10.54 To 0.000 %



97

Incident Energy (eV)

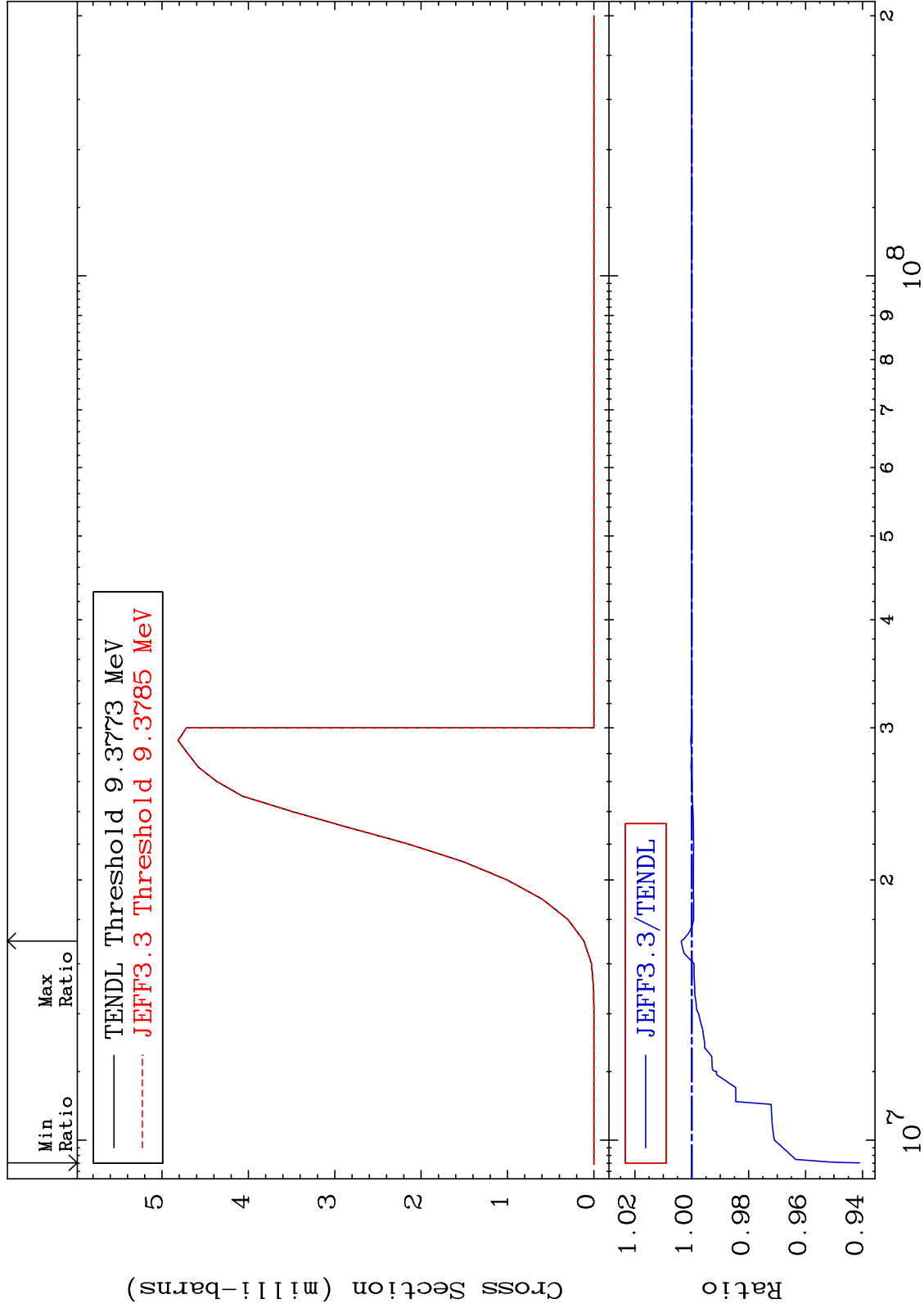
44-Ru-98

MAT 4431

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

44-Ru-98

Radionuclide Production Cross Section -5.904 To 0.369 %



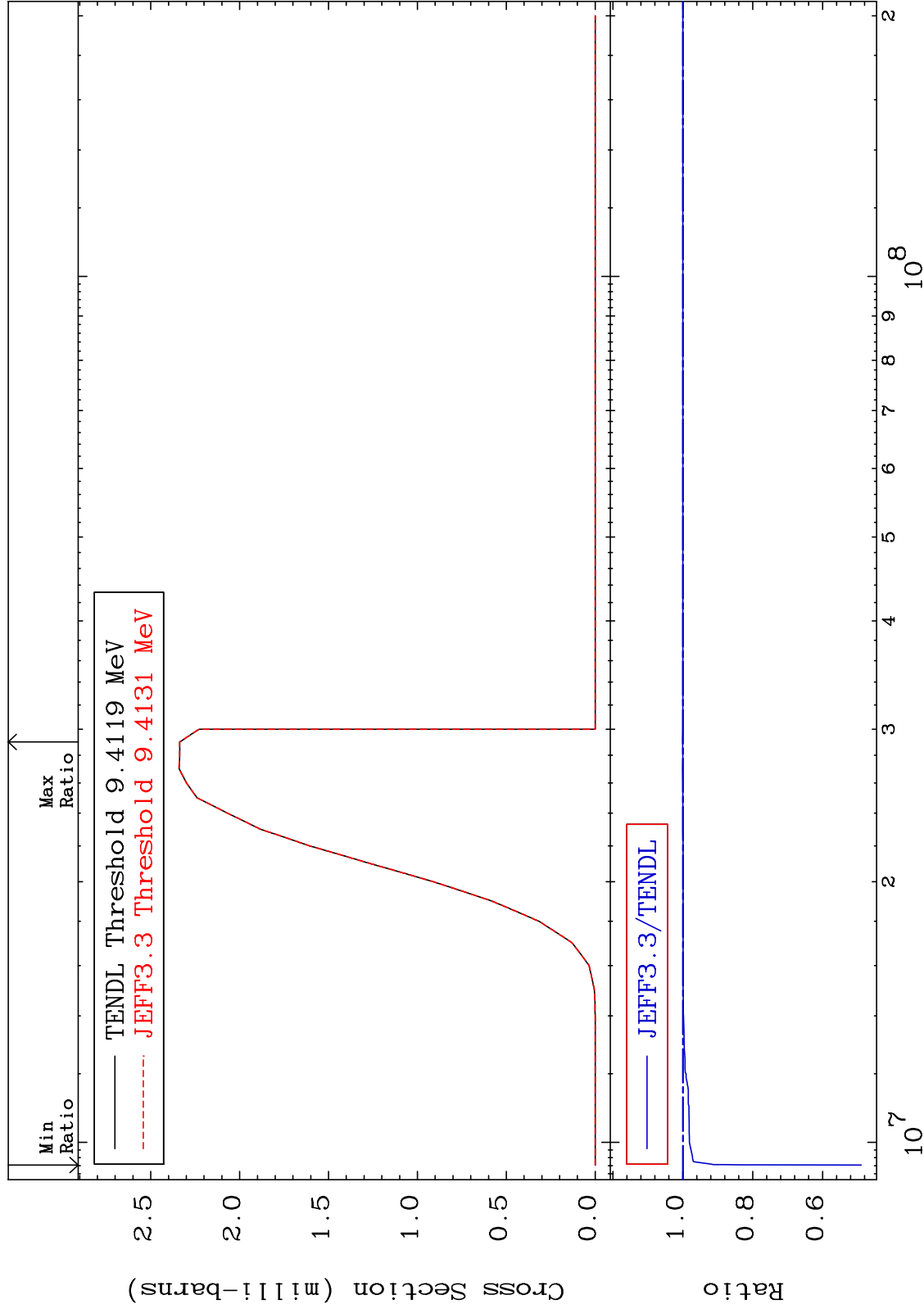
44-Ru-98

MAT 4431

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

44-Ru-98

Radionuclide Production Cross Section -51.05 To 0.071 %



99

Incident Energy (eV)

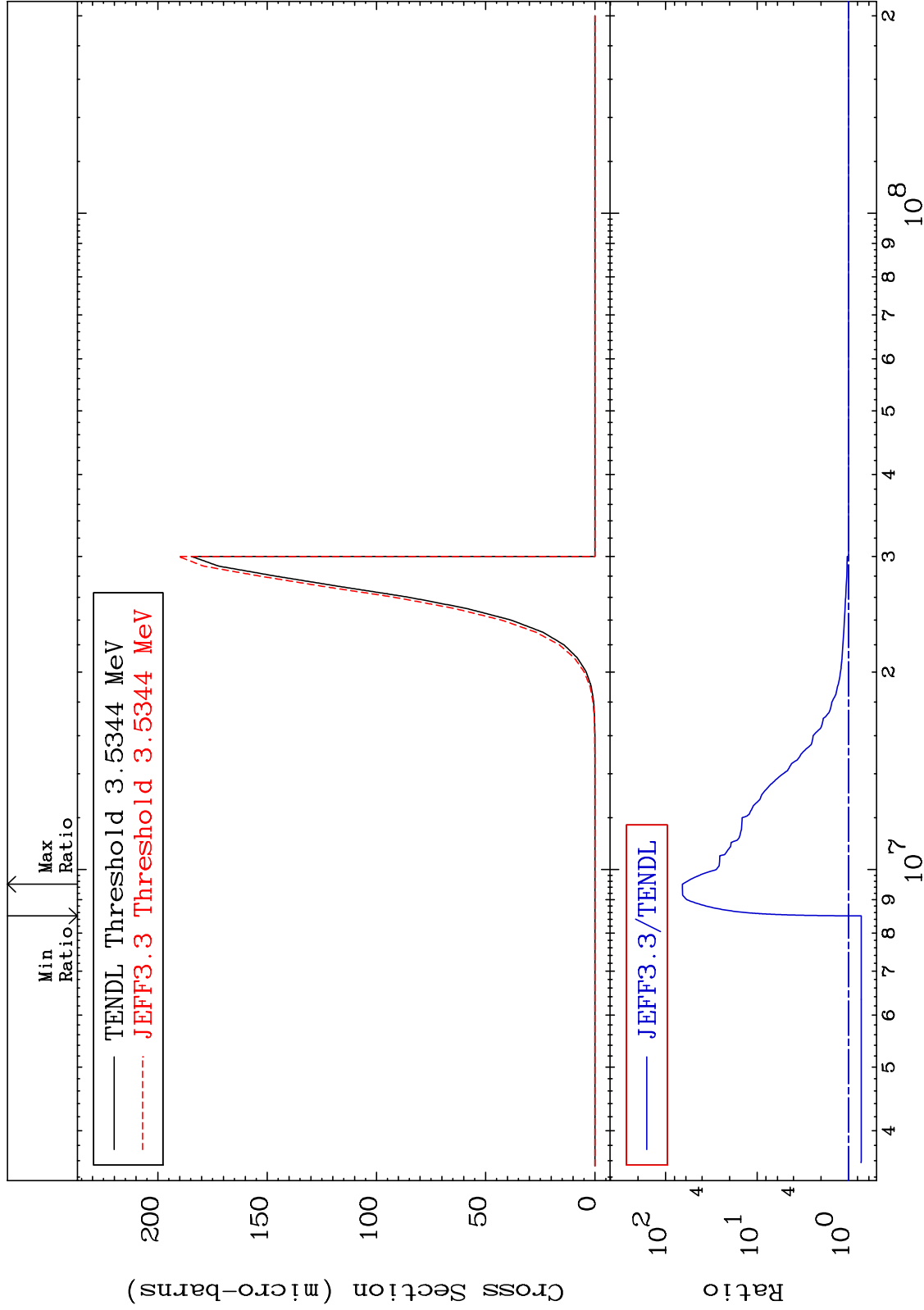
44-Ru-98

MAT 4431

(n, p) α : 41-Nb-94g

44-Ru-98

Radionuclide Production Cross Section -27.29 To 6437. %



100

Incident Energy (eV)

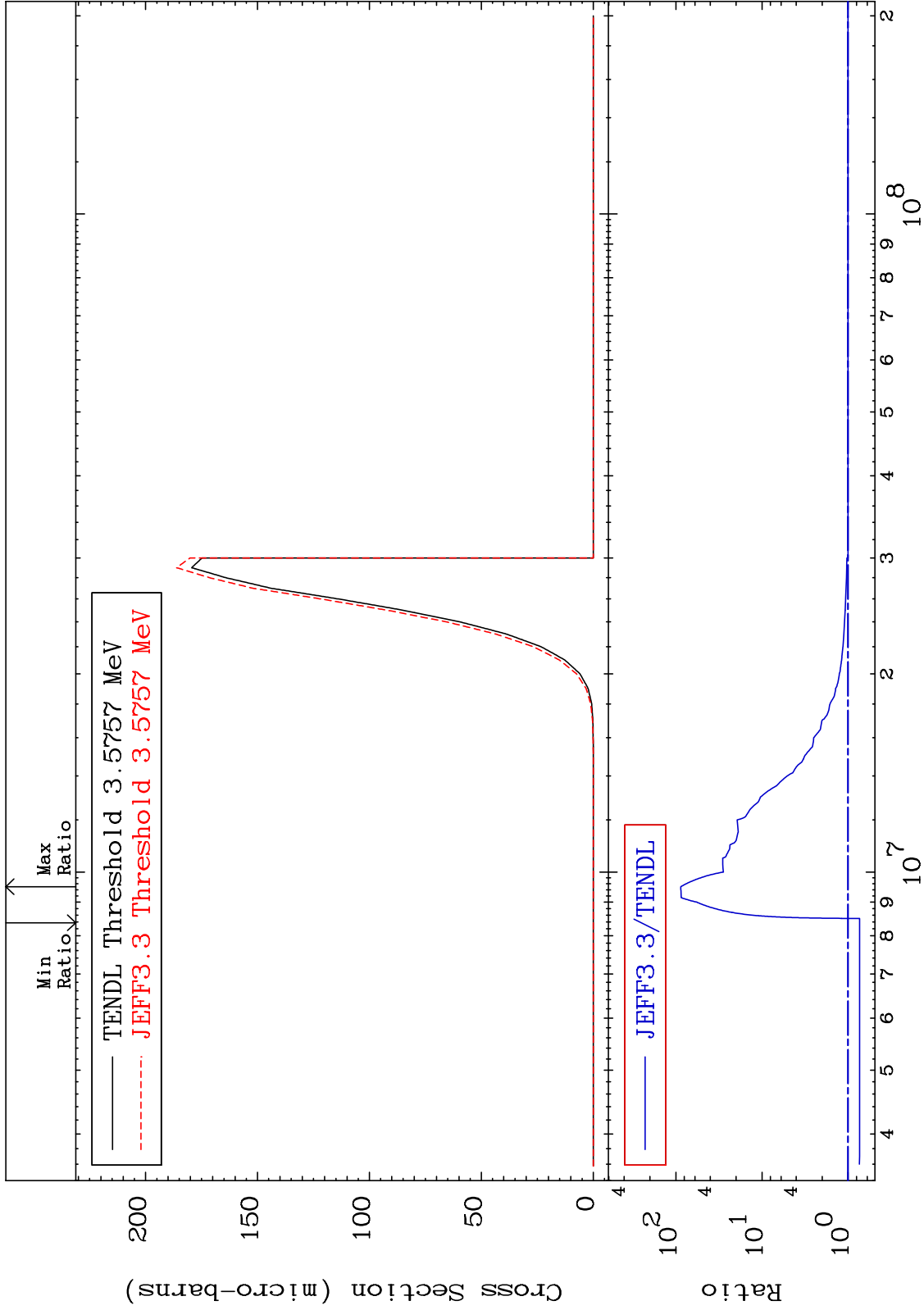
44-Ru-98

MAT 4431

(n, p) α : 41-Nb-94m1

44-Ru-98

Radionuclide Production Cross Section -26.53 To 8670. %



101

Incident Energy (eV)

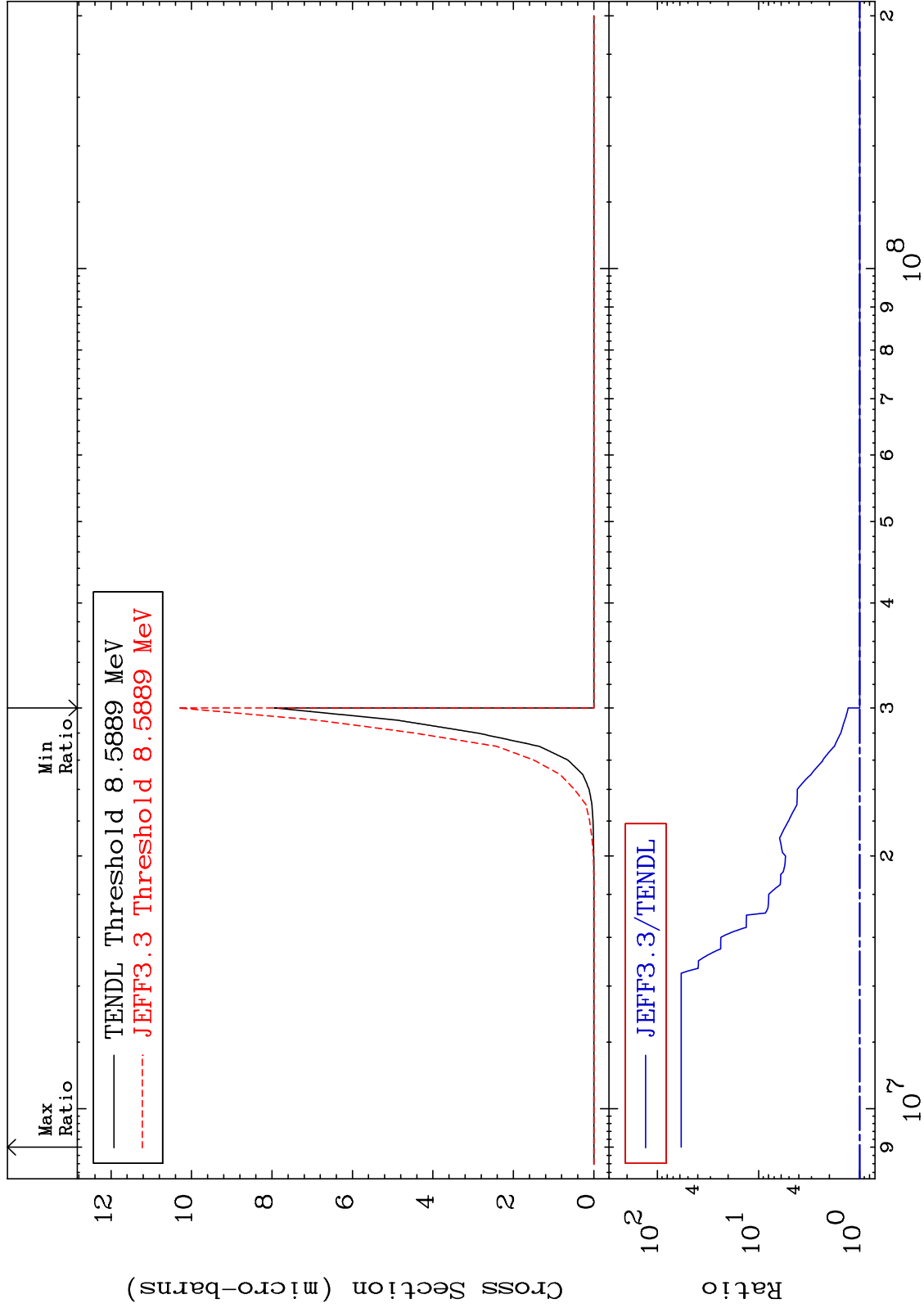
44-Ru-98

MAT 4431

(n, d) α : 41-Nb-93g

44-Ru-98

Radionuclide Production Cross Section 0.000 To 5715. %



102

Incident Energy (eV)

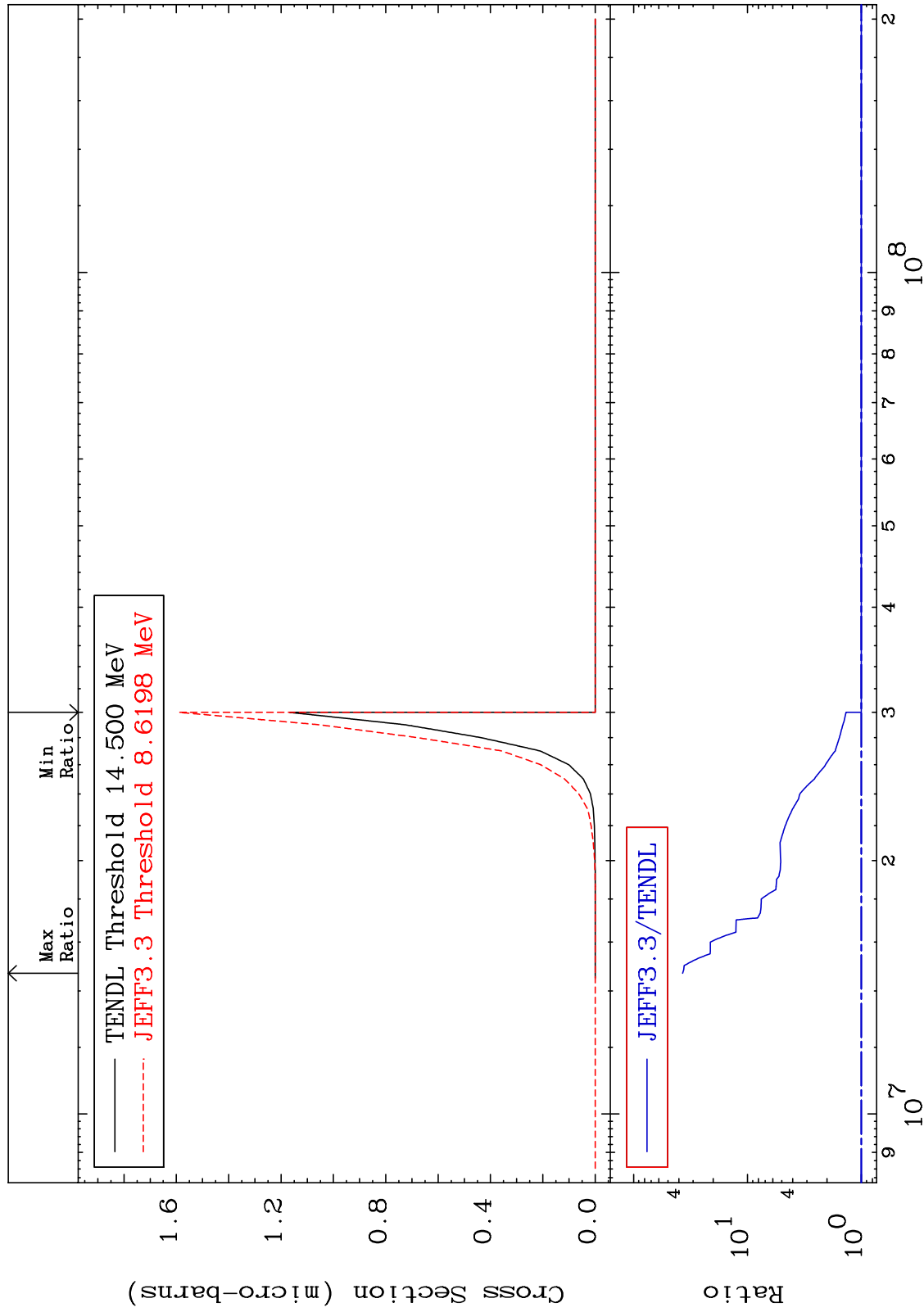
44-Ru-98

MAT 4431

(n, d) α : 41-Nb-93m1

44-Ru-98

Radionuclide Production Cross Section 0.000 To 3606. %



103

Incident Energy (eV)

44-Ru-98