

Program Complot
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.

Tele: 925-443-1911

E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

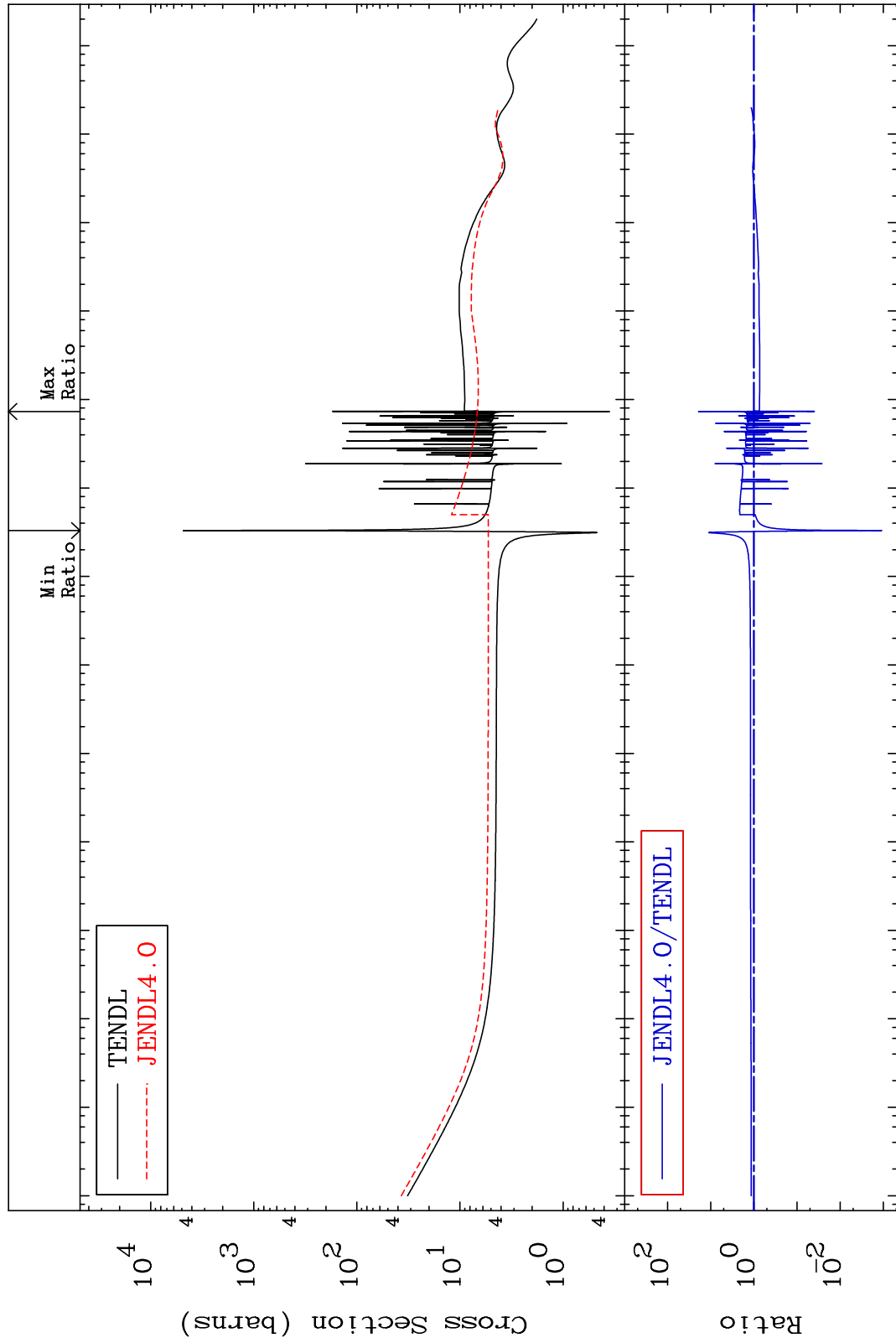
MAT 4455

Total

44-Ru-106

Cross Section

-99.89 To 1805. %



Incident Energy (eV)

44-Ru-106

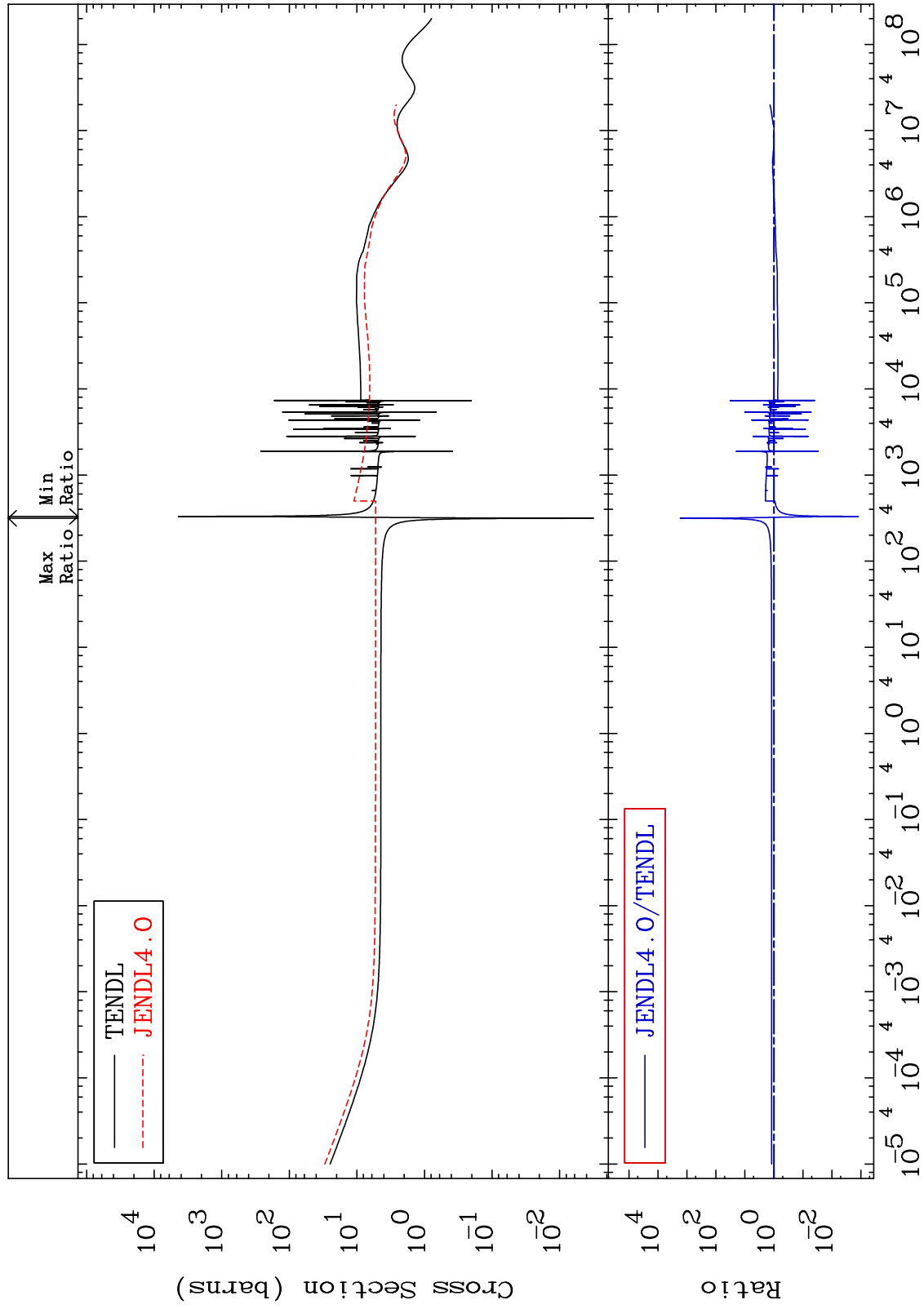
MAT 4455

Elastic

44-Ru-106

Cross Section

-99.88 To 9999. %

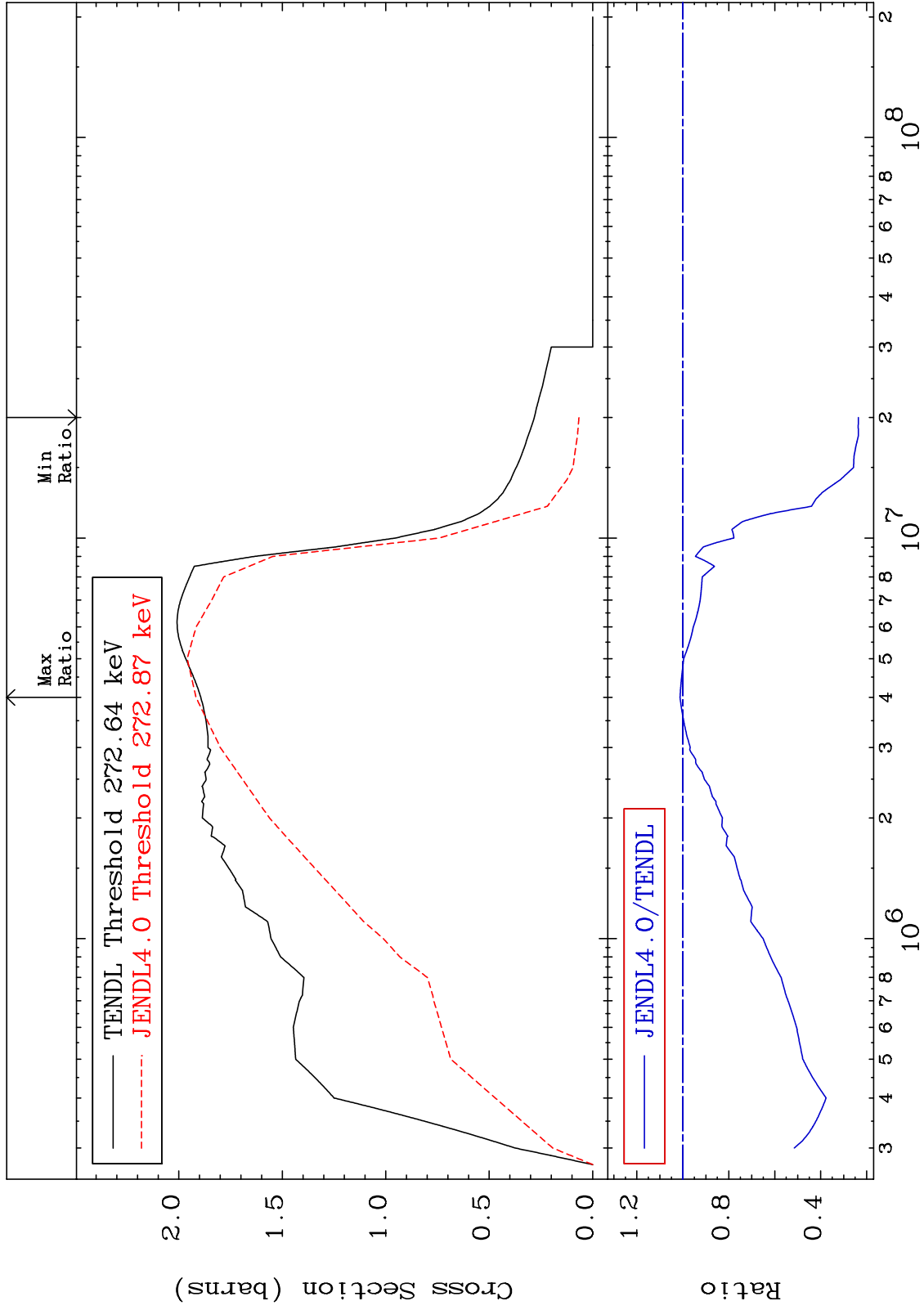


MAT 4455

Inelastic
Cross Section

44-Ru-106

-76.41 To 1.222 %



44-Ru-106

Incident Energy (eV)

3

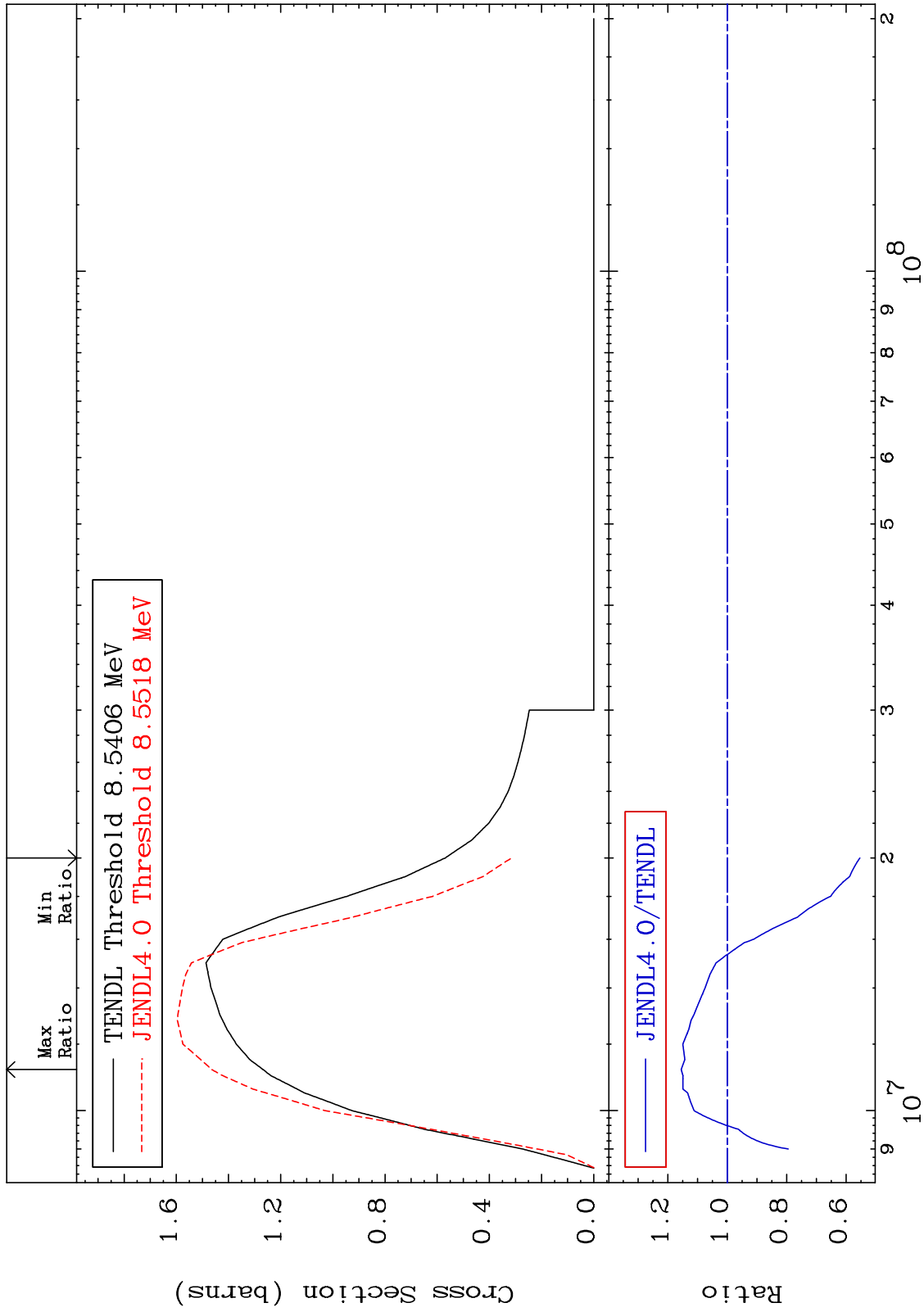
MAT 4455

(n,2n)

44-Ru-106

Cross Section

-44.66 To 15.50 %



MAT 4455

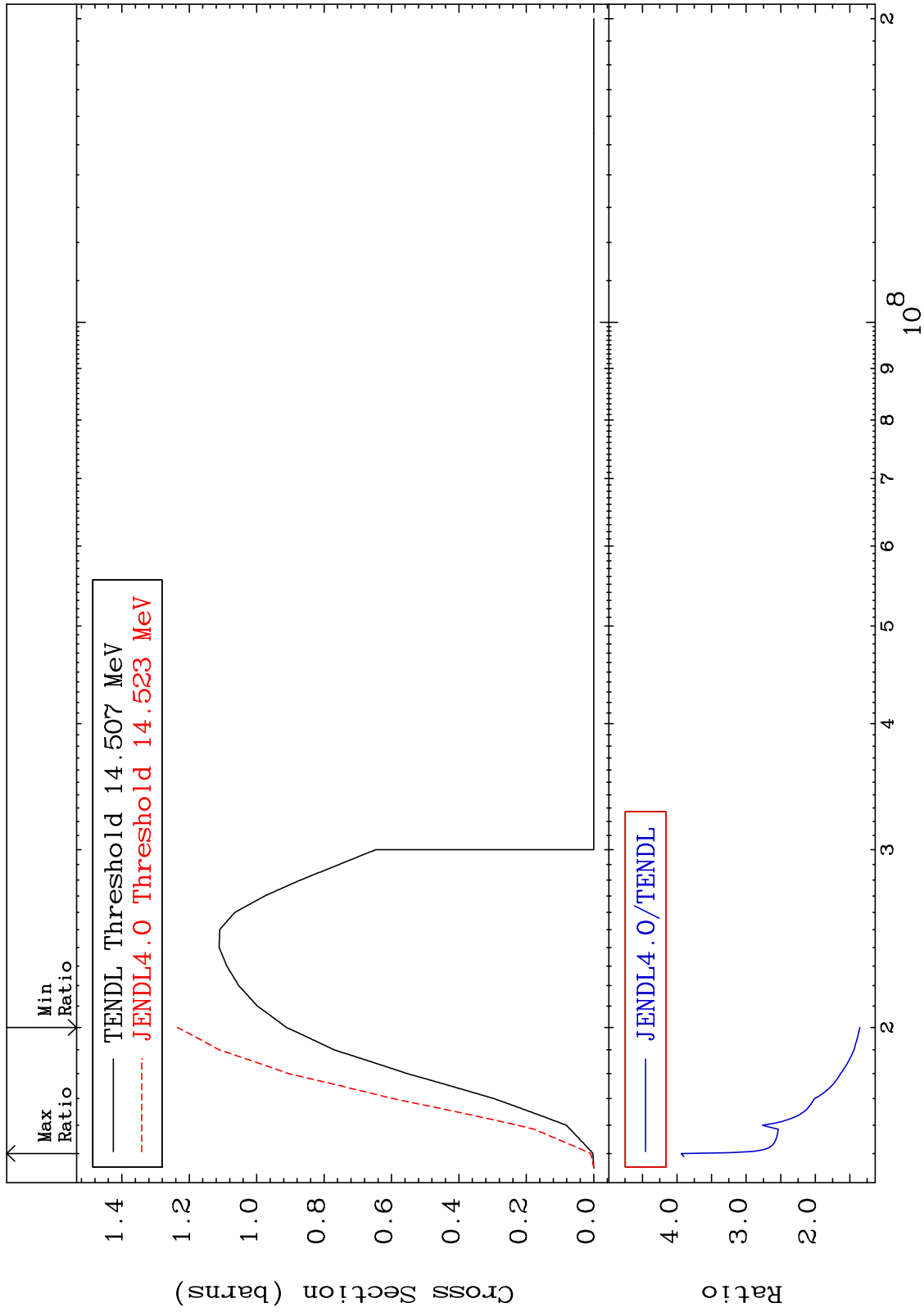
(n,3n)

44-Ru-106

Cross Section

35.48

To 293.9 %



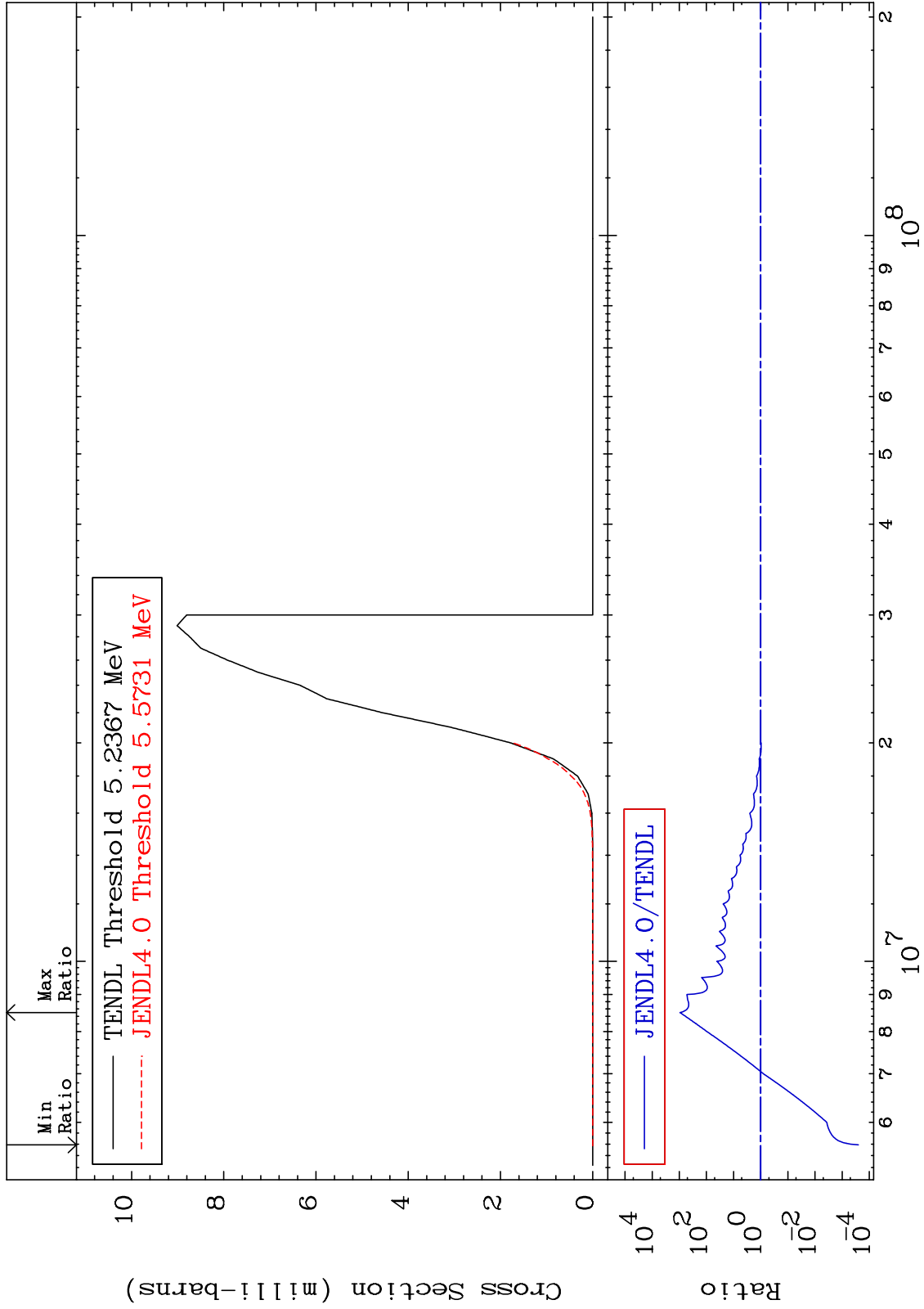
MAT 4455

(n,n') α

44-Ru-106

Cross Section

-99.97 To 9999. %



6

Incident Energy (eV)

44-Ru-106

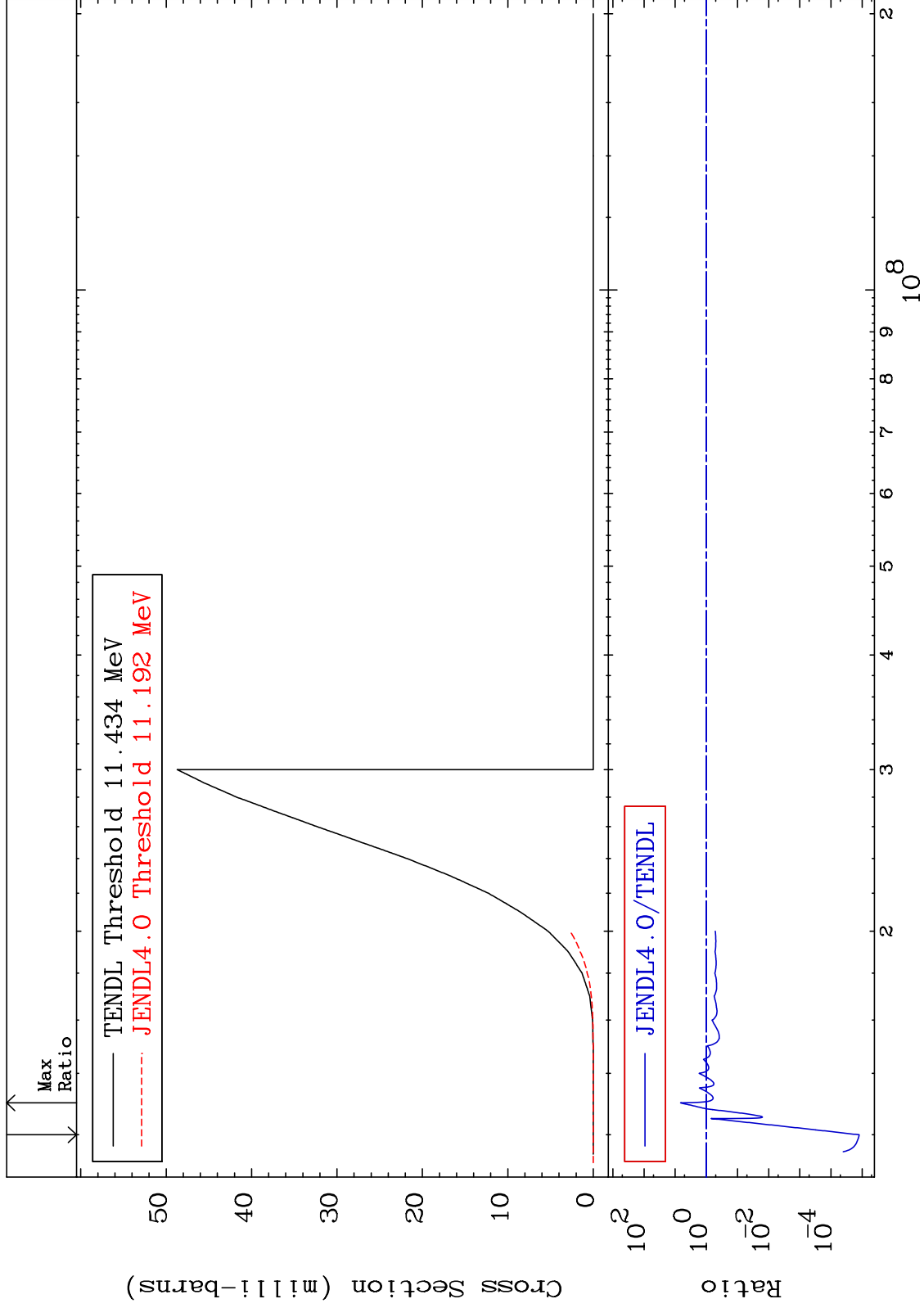
MAT 4455

(n,n') p

44-Ru-106

Cross Section

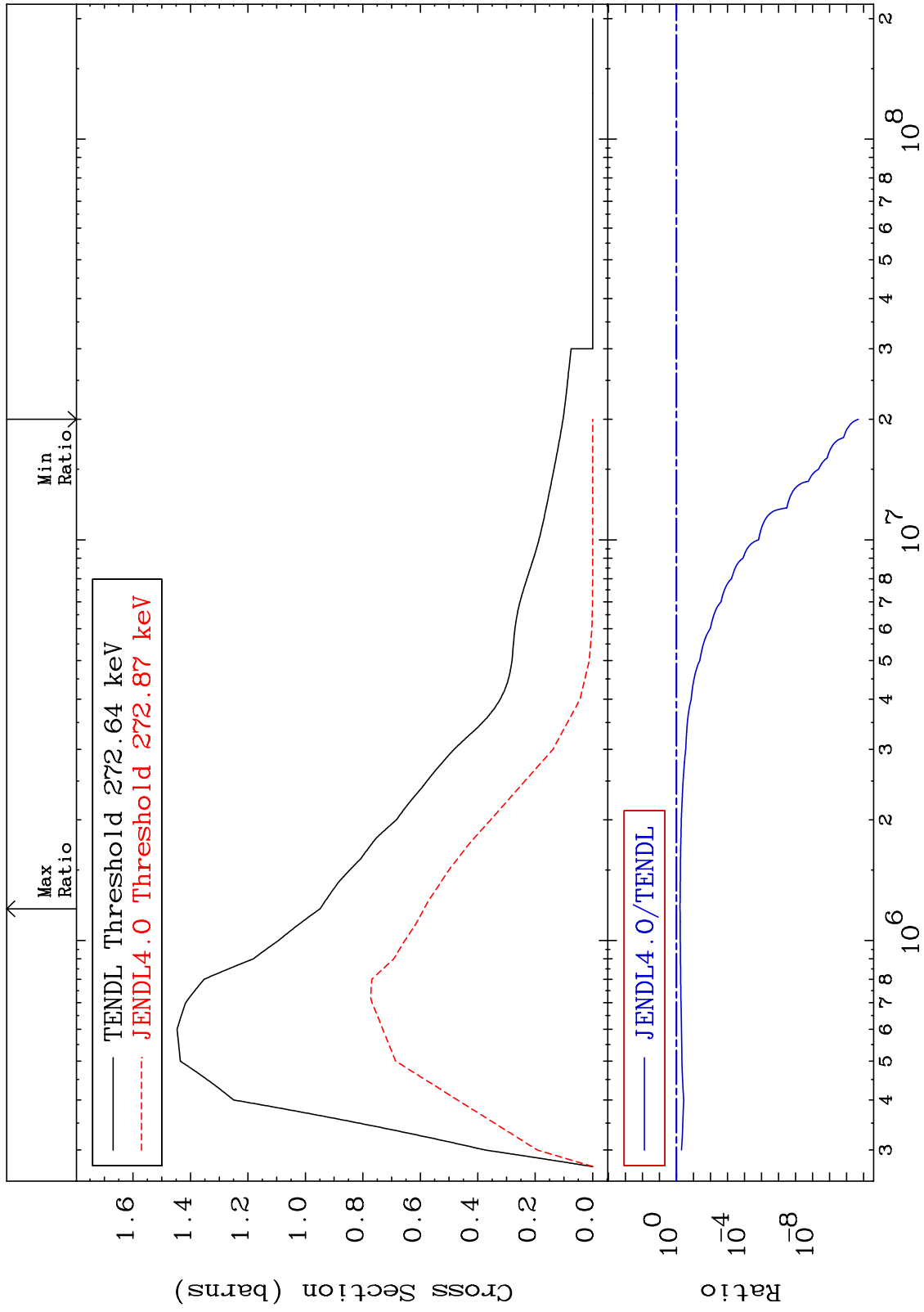
-100.0 To 570.0 %



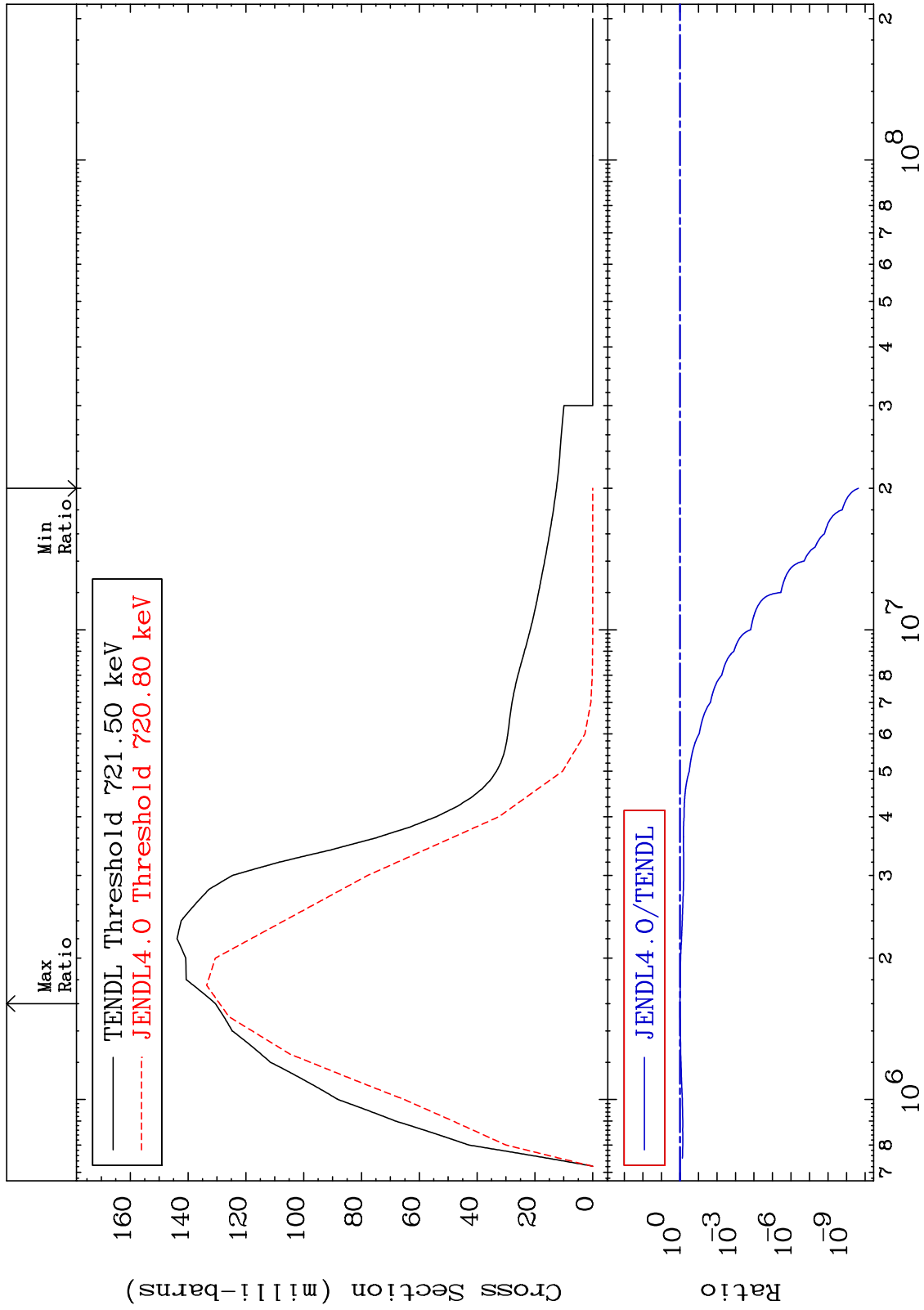
MAT 4455

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

44-Ru-106
-100.0 To -38.12%



MAT 4455 MT= 52 (n,n') Level Cross Section 44-Ru-106 -100.0 To -1.114%

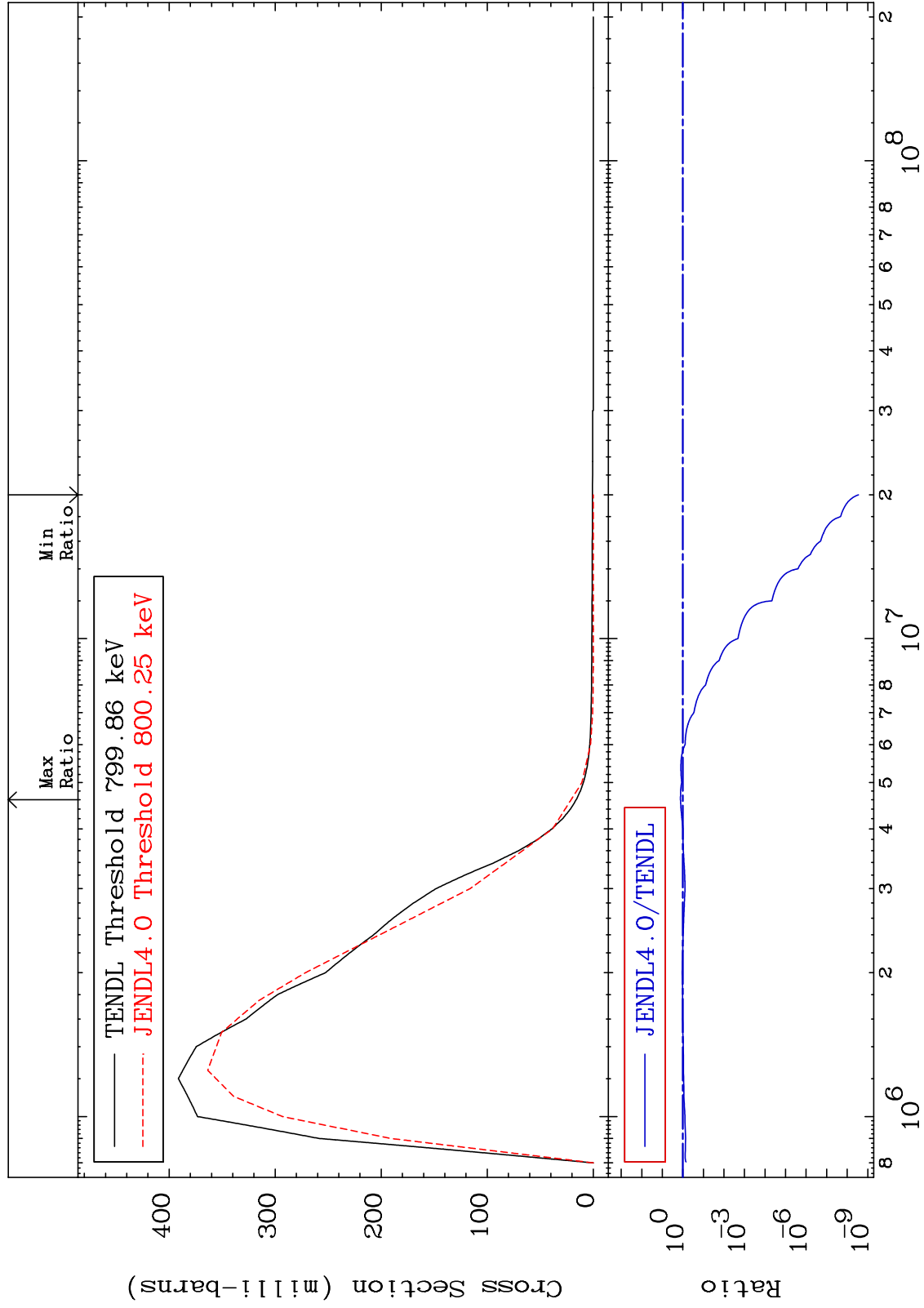


9 44-Ru-106

MAT 4455

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

44-Ru-106
-100.0 To 30.57 %



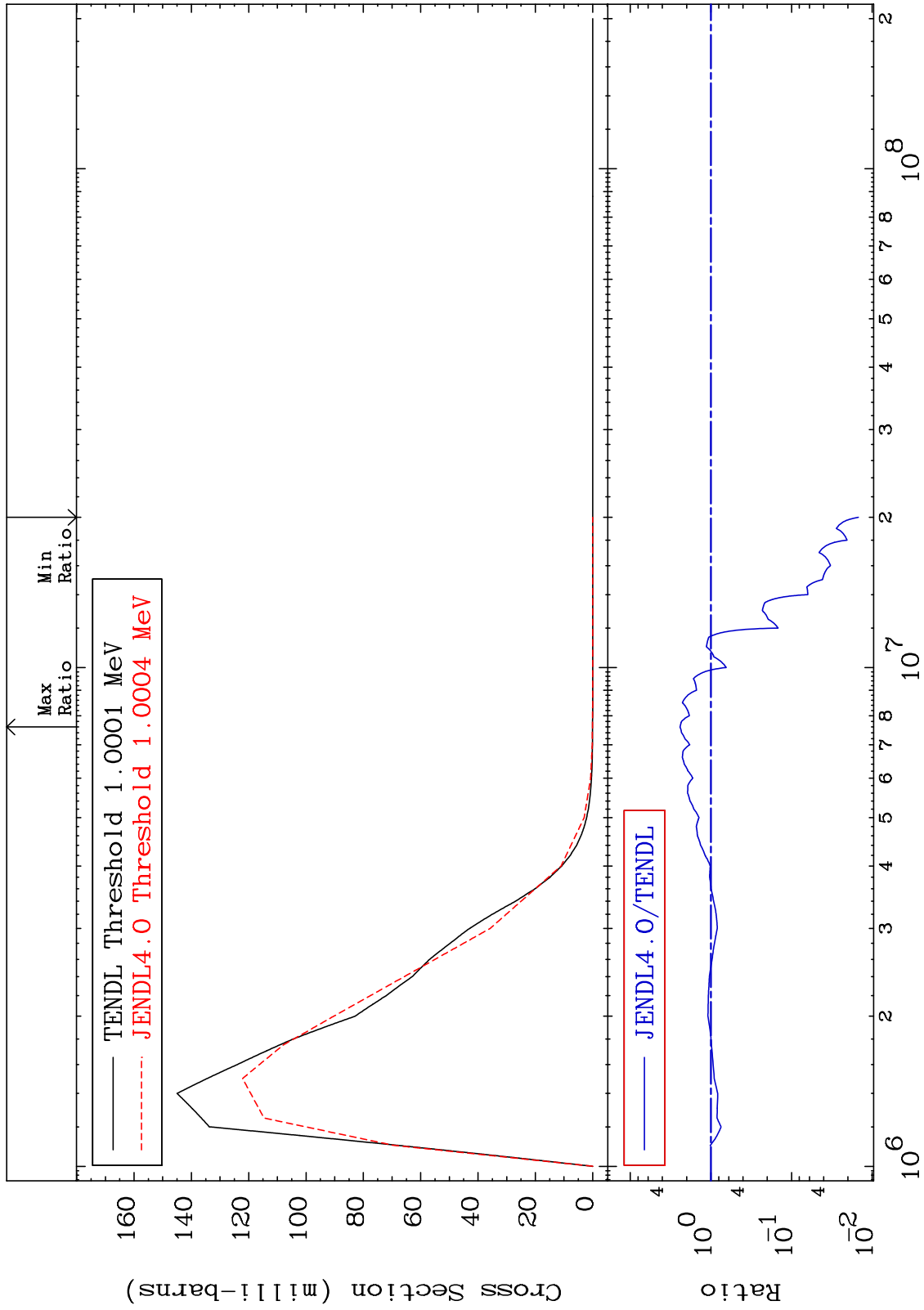
Incident Energy (eV)

44-Ru-106

MAT 4455

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

44-Ru-106
-98.52 To 141.6 %



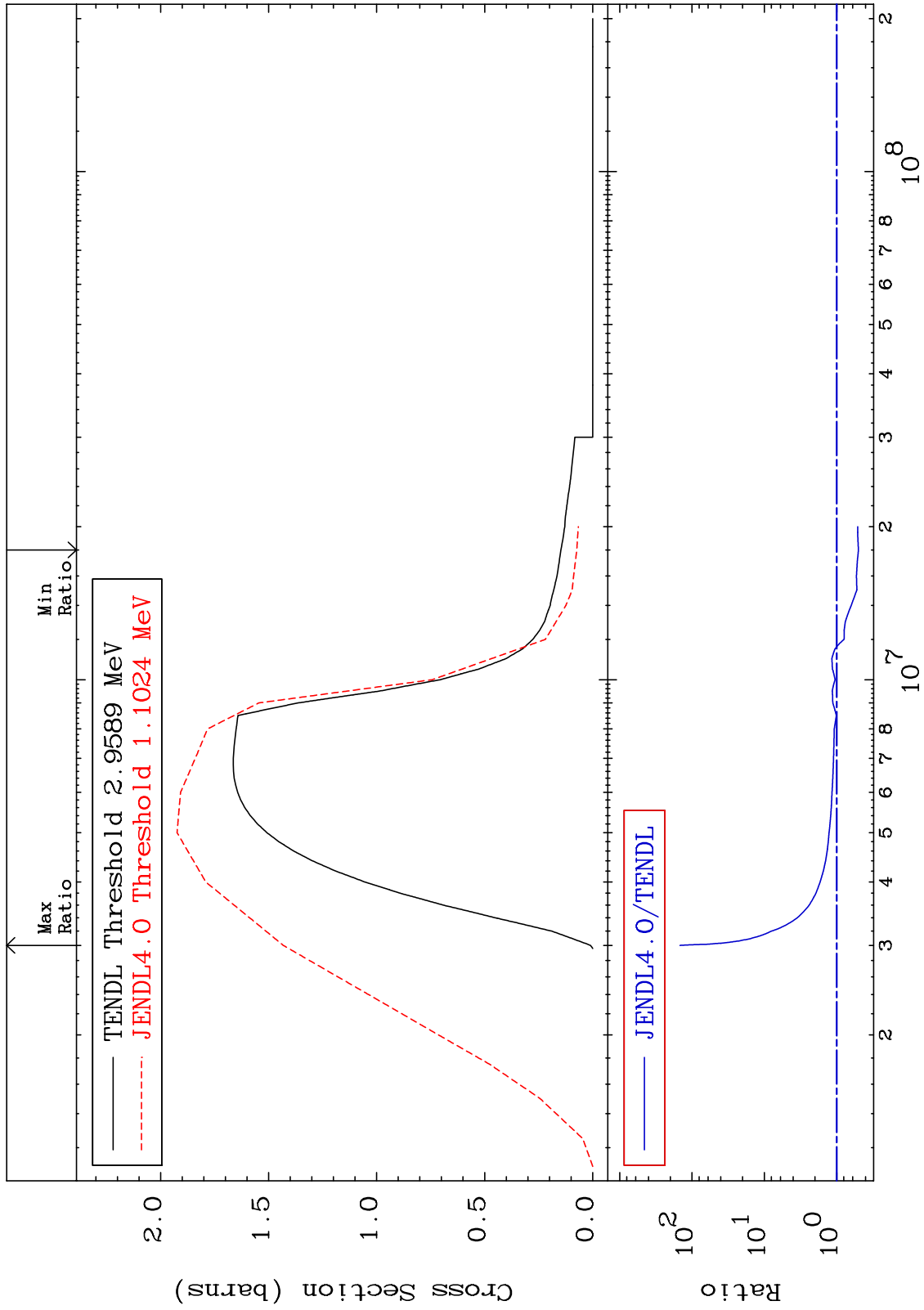
— TENDL Threshold 1.0001 MeV
- - - JENDL4.0 Threshold 1.0004 MeV

— JENDL4.0/TENDL

MAT 4455

(n, n') Continuum
Cross Section

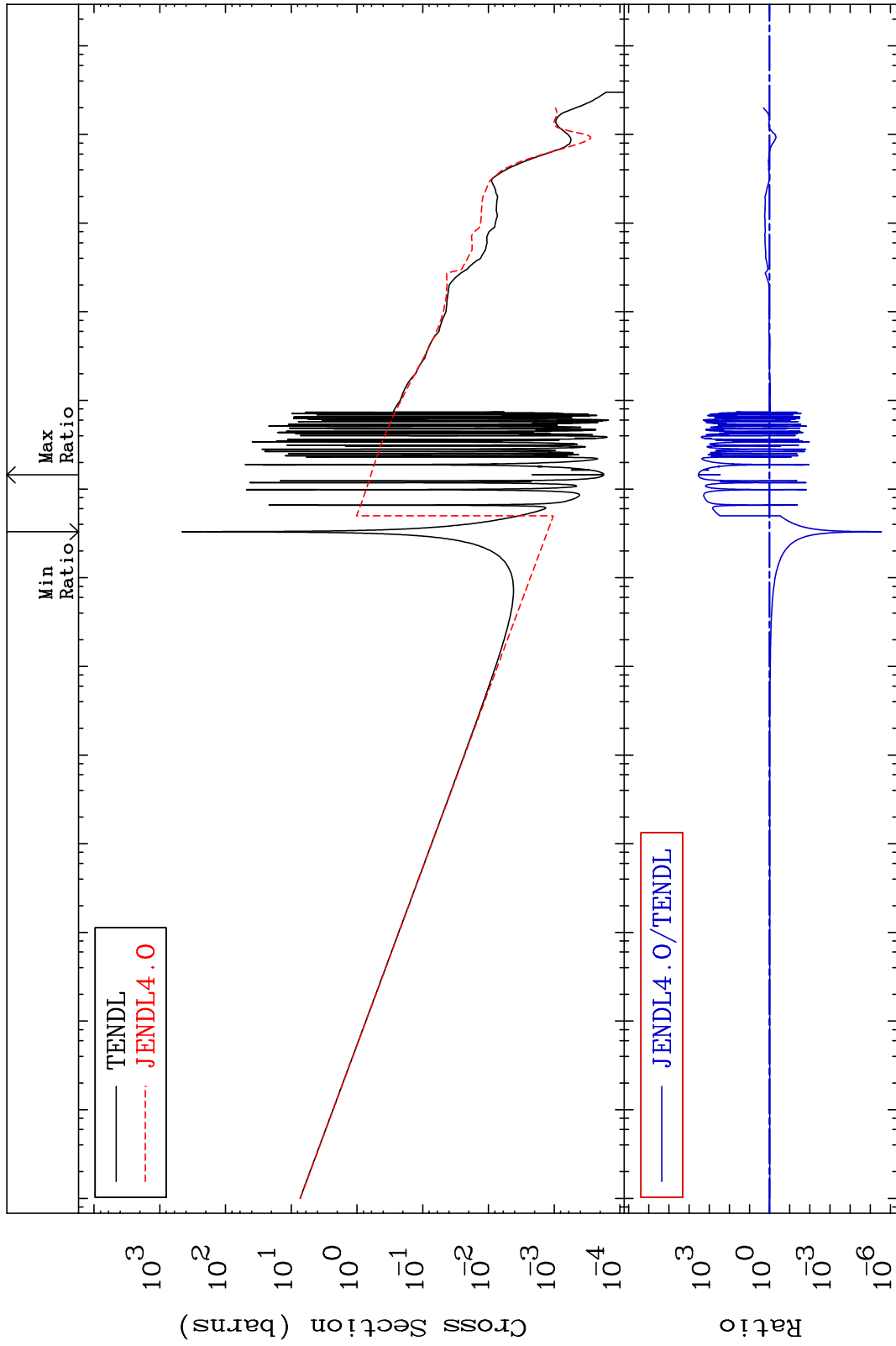
44-Ru-106
-49.92 To 9999. %



MAT 4455

(n, γ)
Cross Section

44-Ru-106
-100.0 To 9999. %

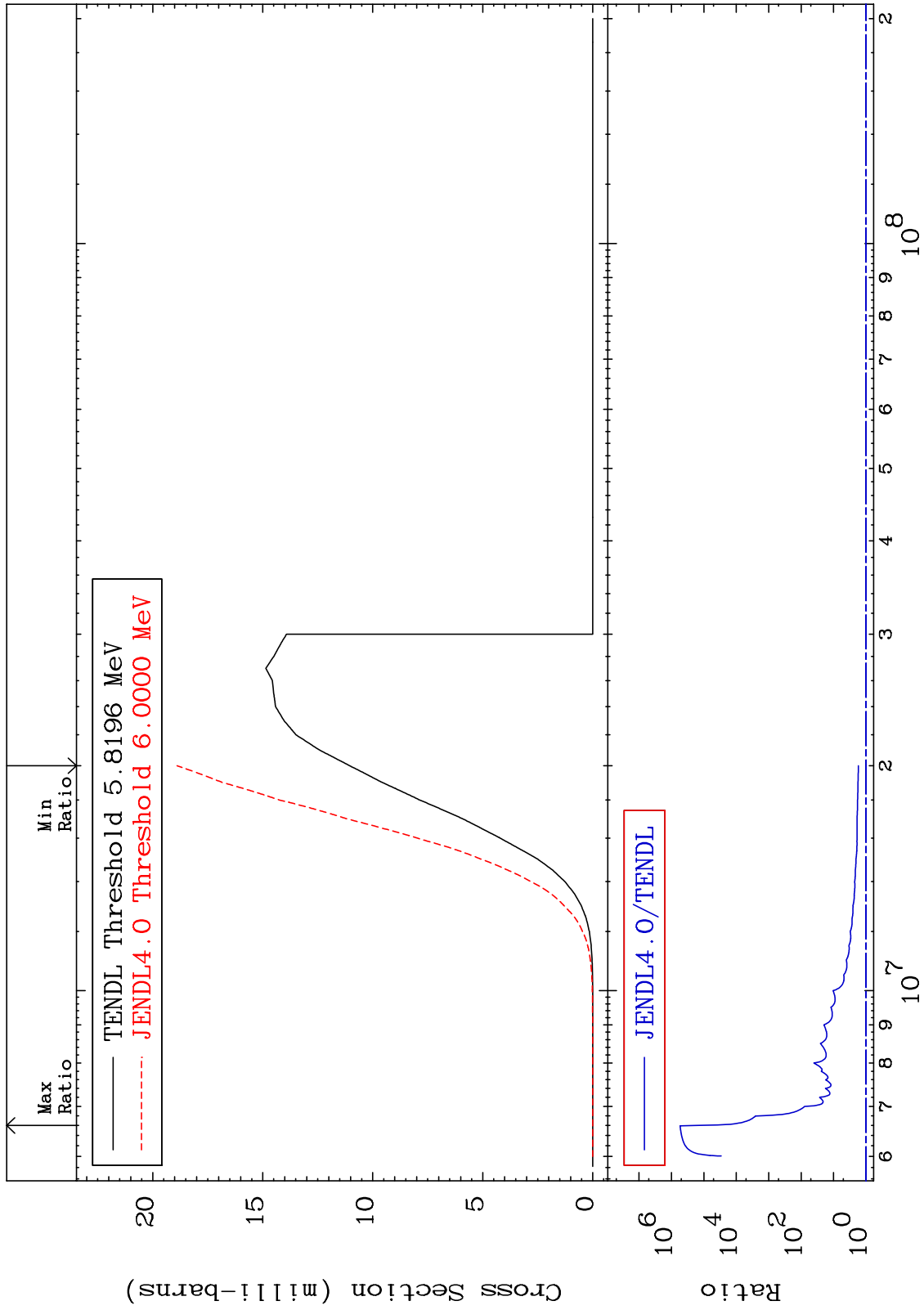


44-Ru-106

Incident Energy (eV)

13

MAT 4455 (n,p) Cross Section 44-Ru-106 To 9999. %
70.99



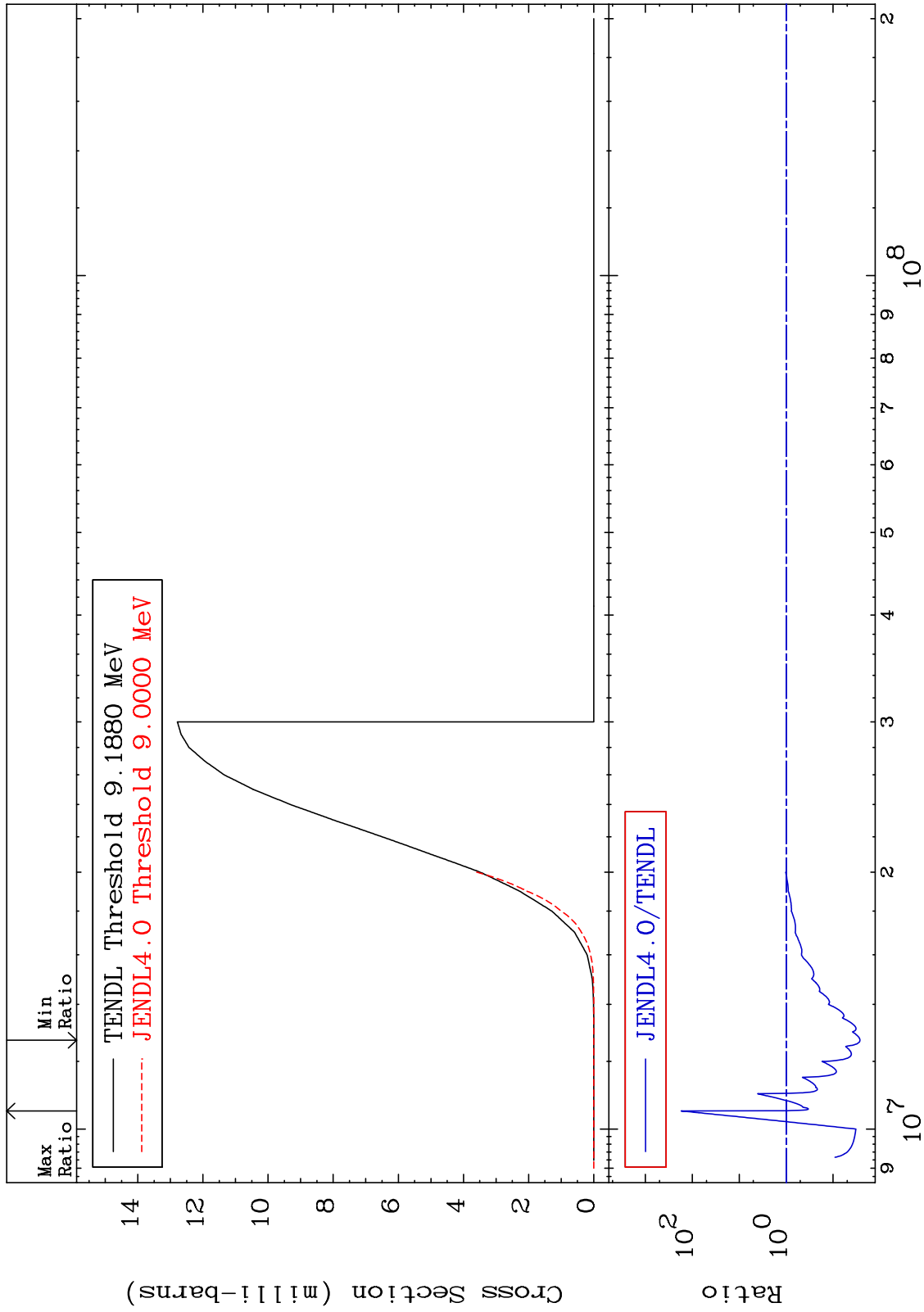
MAT 4455

(n, d)

44-Ru-106

Cross Section

-97.32 To 9999. %



15

Incident Energy (eV)

44-Ru-106

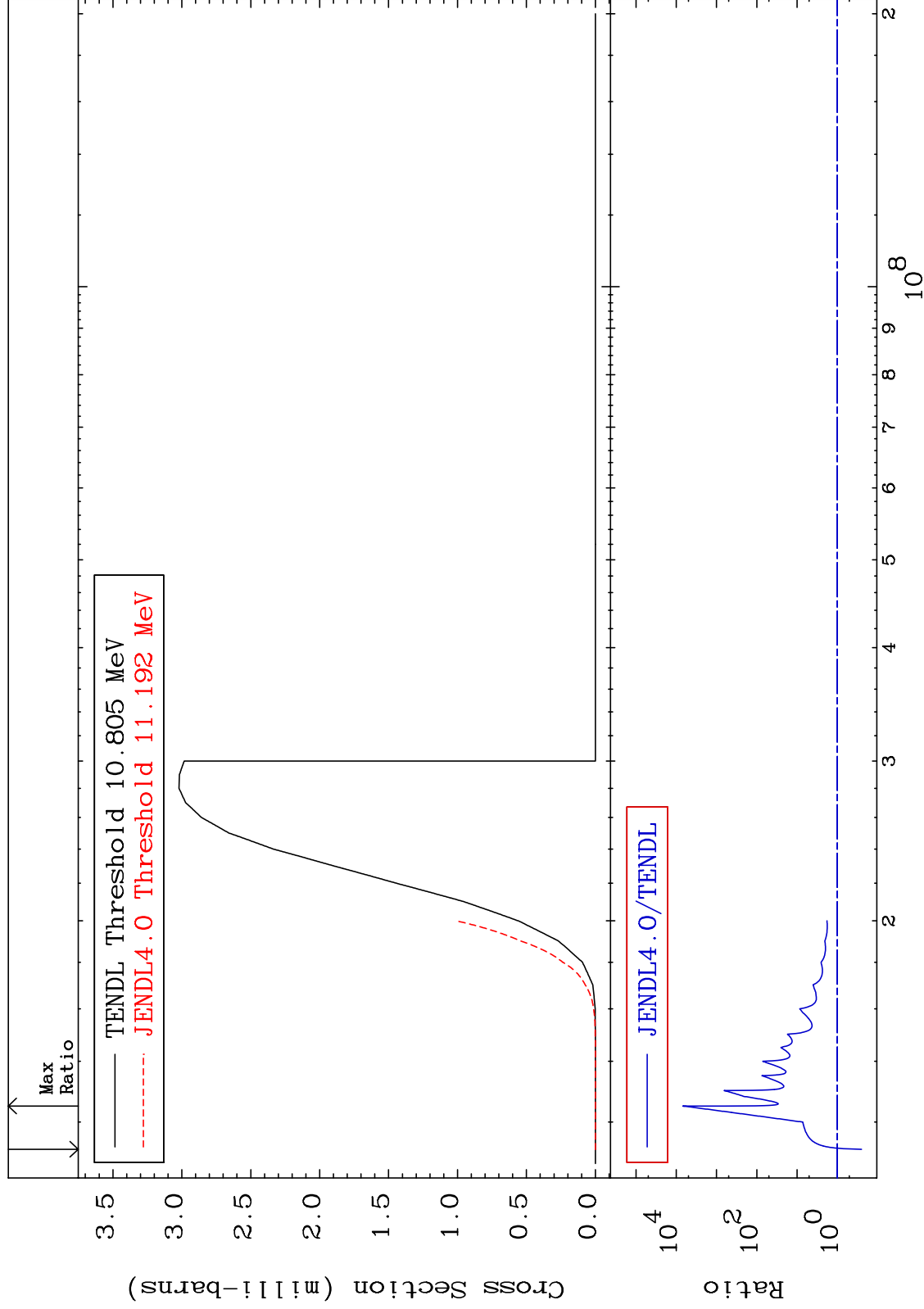
MAT 4455

(n, t)

44-Ru-106

Cross Section

-75.17 To 9999. %

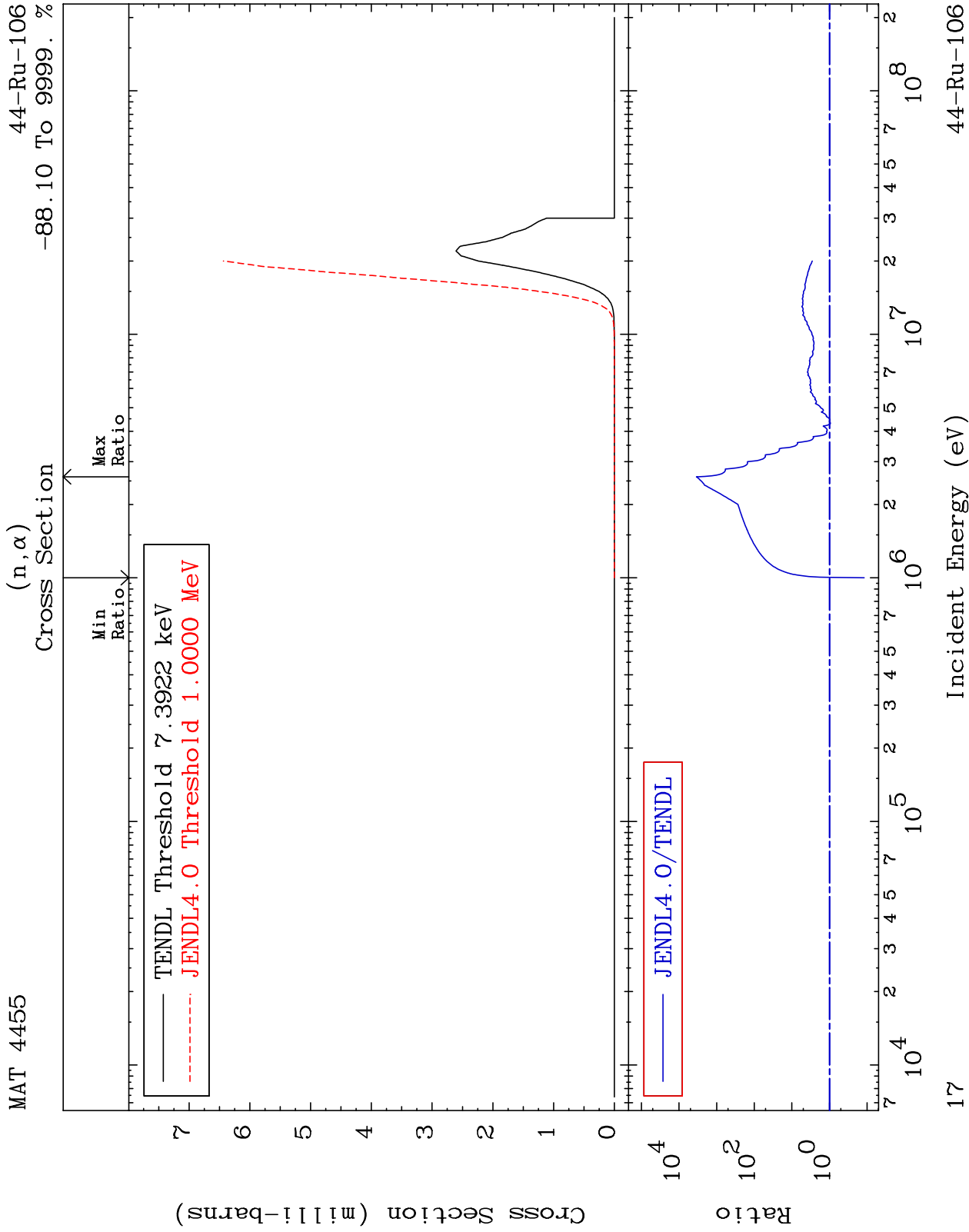


MAT 4455

44-Ru-106

(n, α)
-88.10 To 9999. %

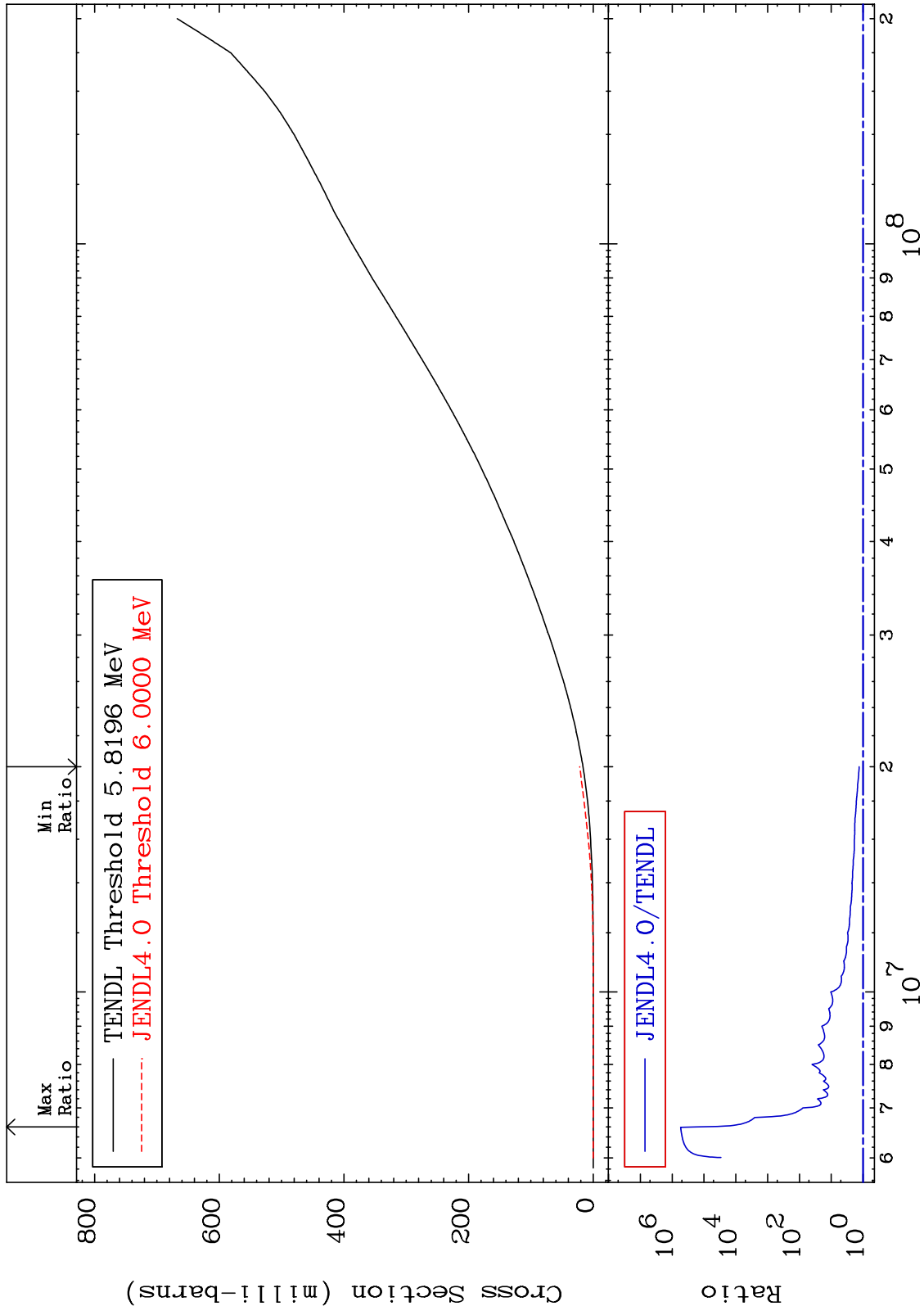
Cross Section



MAT 4455

Hydrogen Production
Cross Section

44-Ru-106
32.39 To 9999. %



18

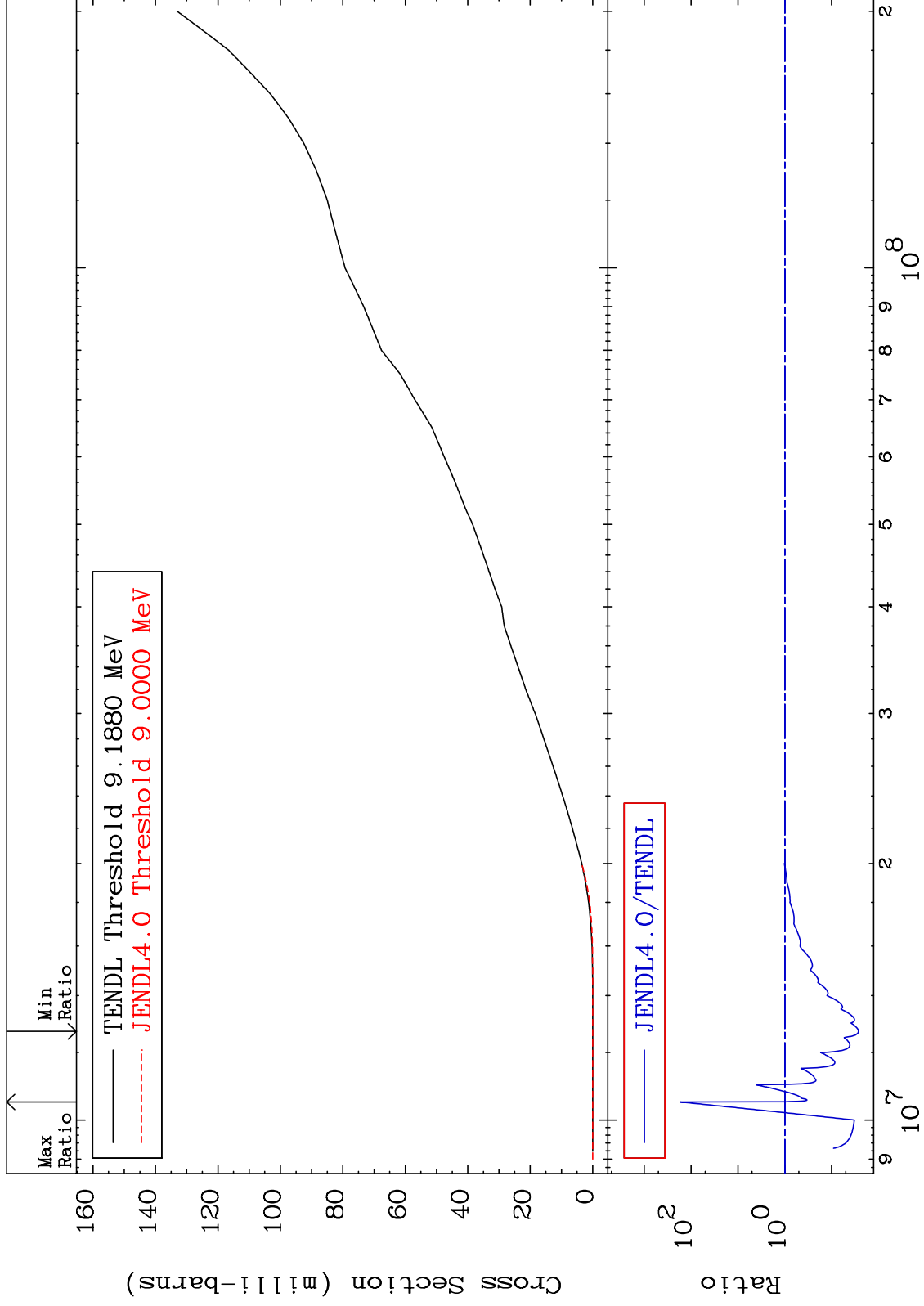
Incident Energy (eV)

44-Ru-106

MAT 4455

Deuterium Production
Cross Section

44-Ru-106
-97.32 To 9999. %



44-Ru-106

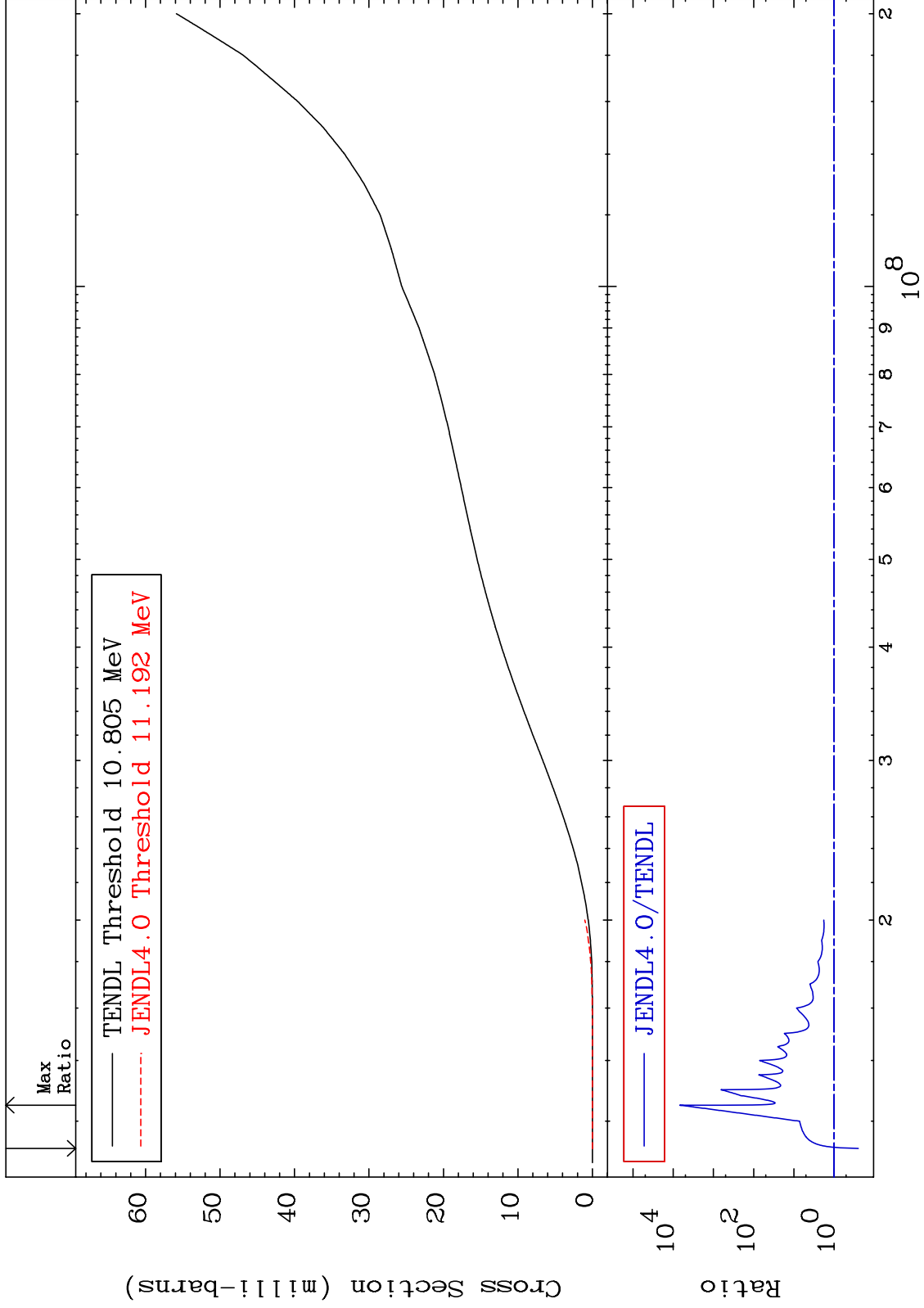
Incident Energy (eV)

19

MAT 4455

Tritium Production
Cross Section

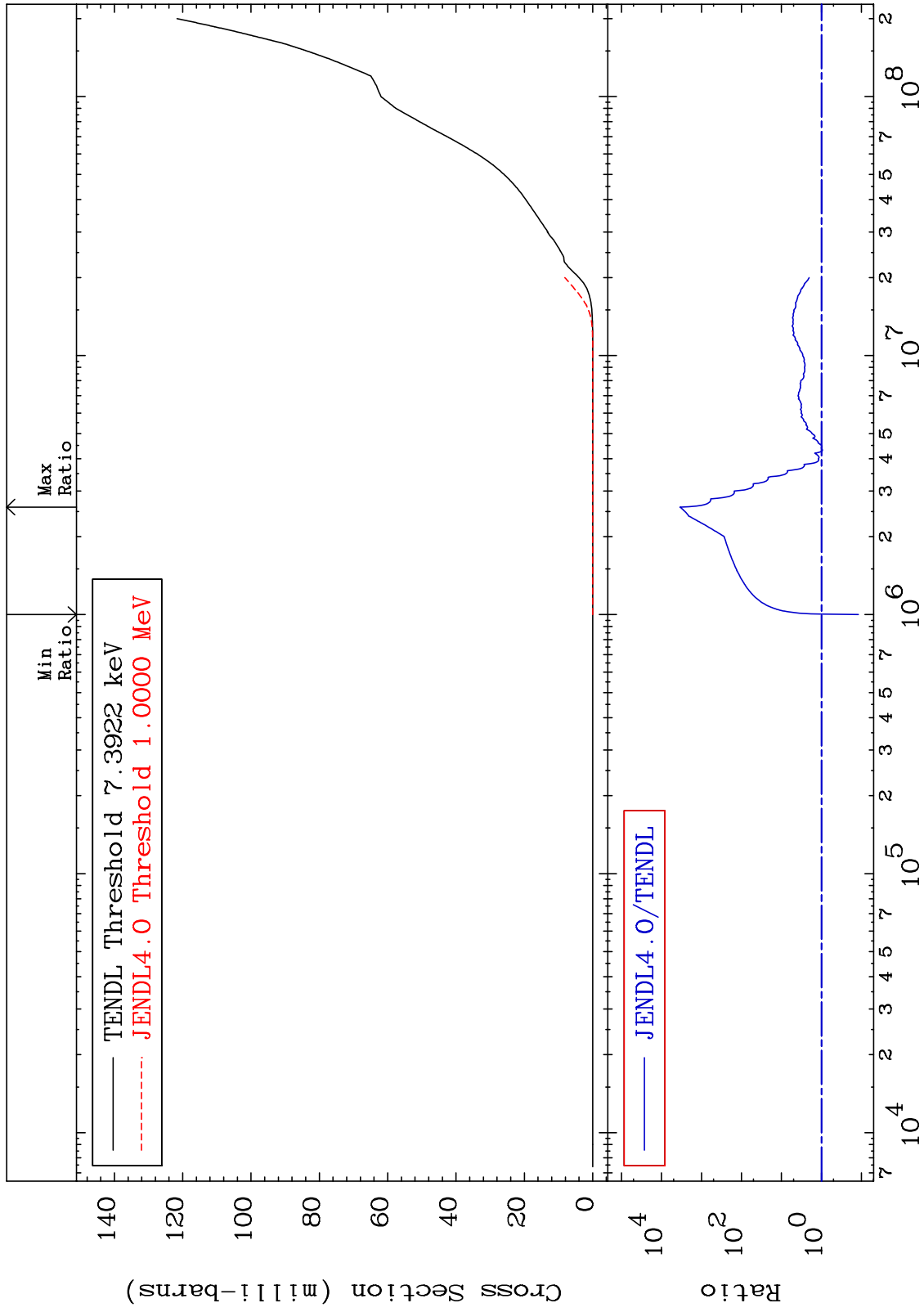
44-Ru-106
-75.17 To 9999. %



MAT 4455

He-4 Production
Cross Section

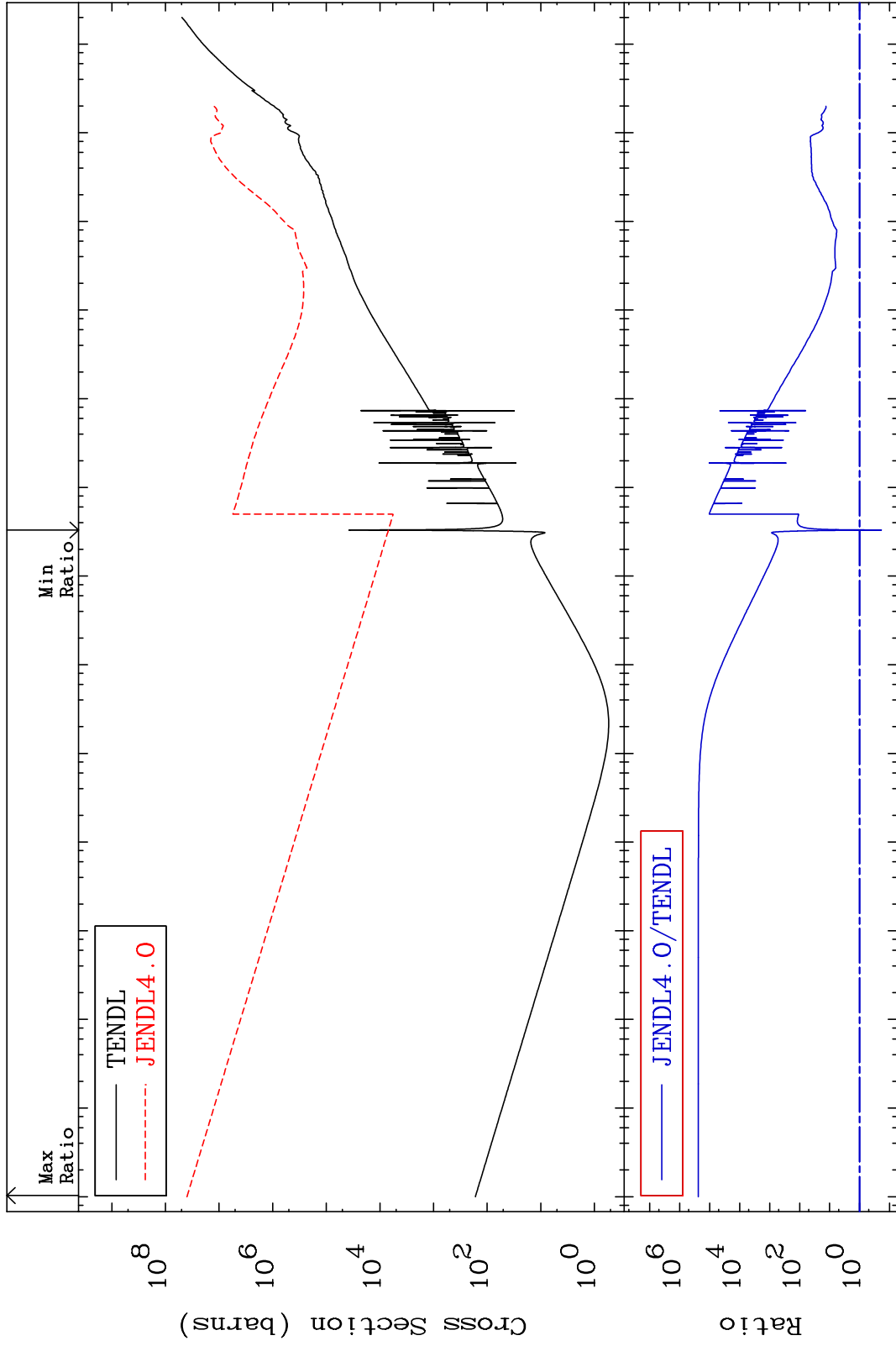
44-Ru-106
-88.10 To 9999. %



MAT 4455

Kerma total (eV-barns)
Cross Section

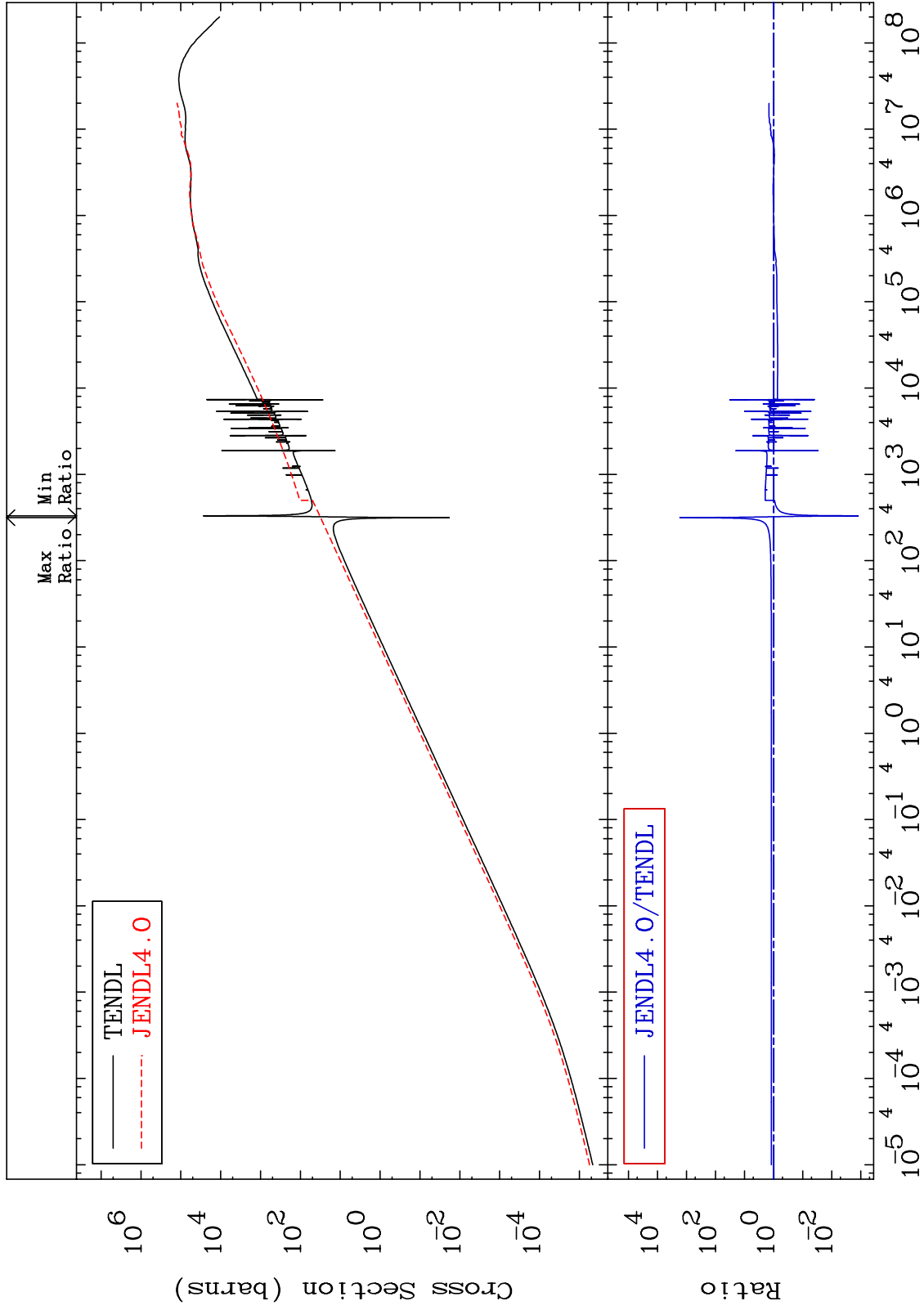
44-Ru-106
-81.47 To 9999. %



MAT 4455

Kerma elastic
Cross Section

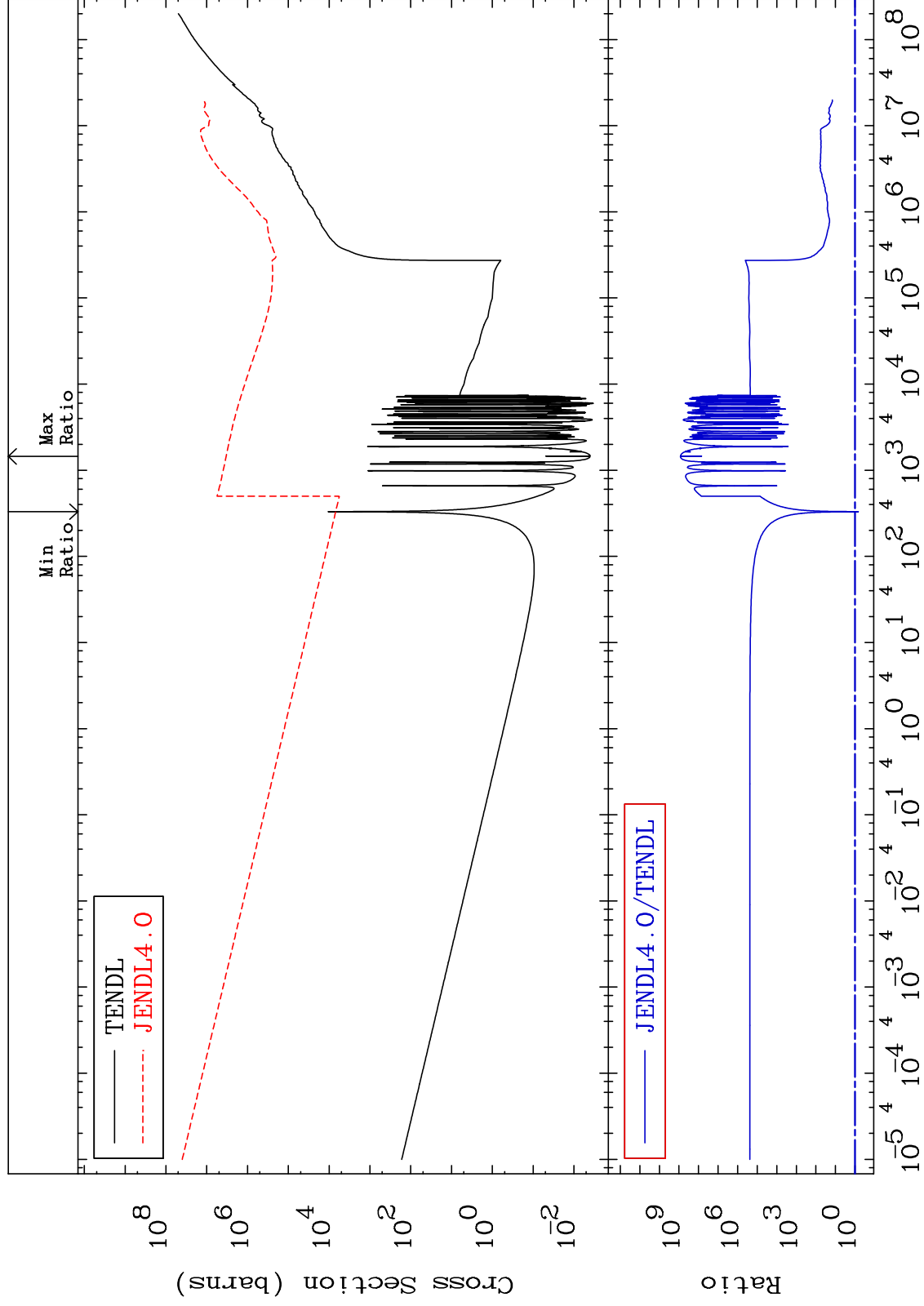
44-Ru-106
-99.88 To 9999. %



MAT 4455

Kerma non-elastic (all but mt2)
Cross Section

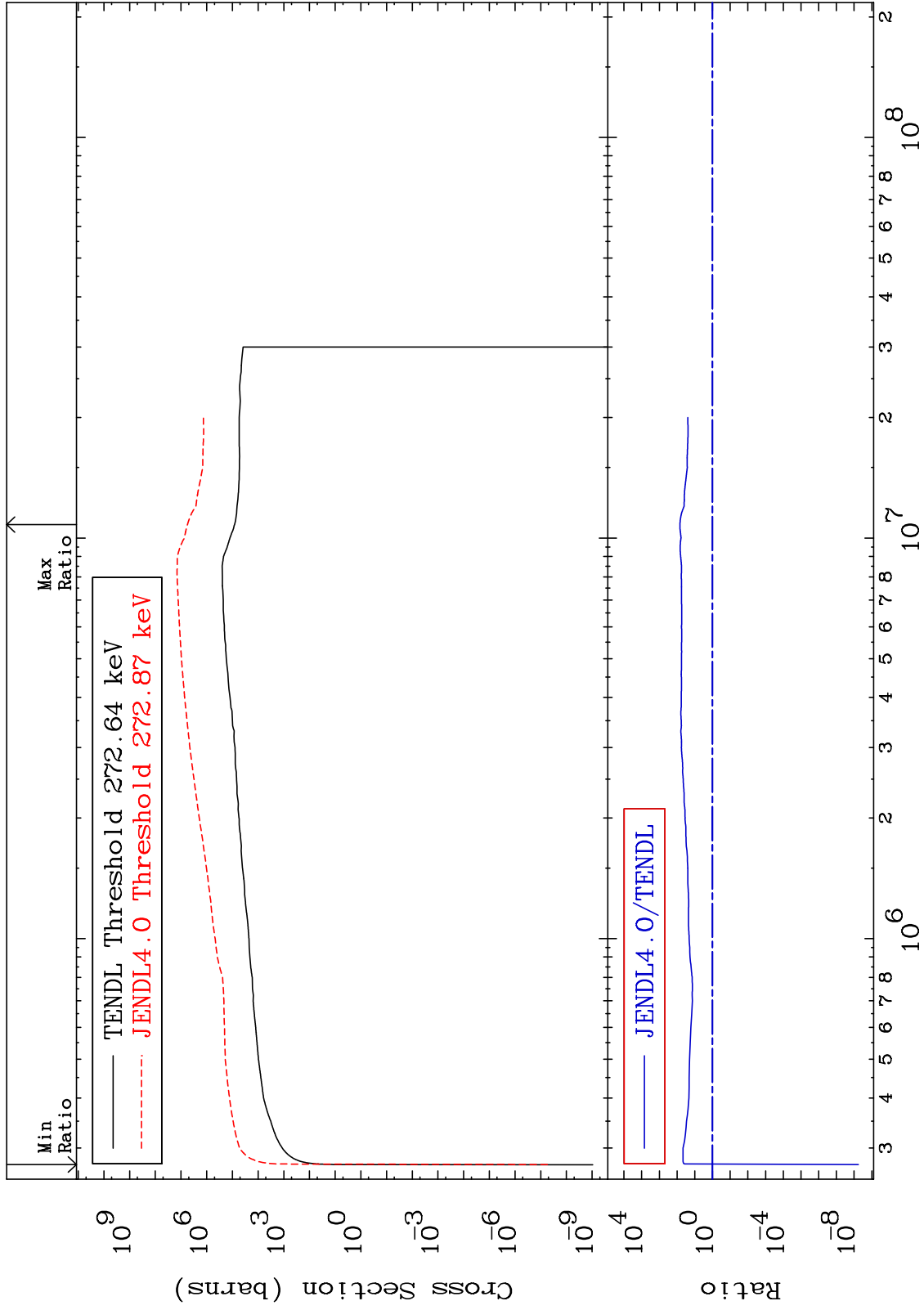
44-Ru-106
-33.82 To 9999. %



MAT 4455

Kerma inelastic (mt51-91)
Cross Section

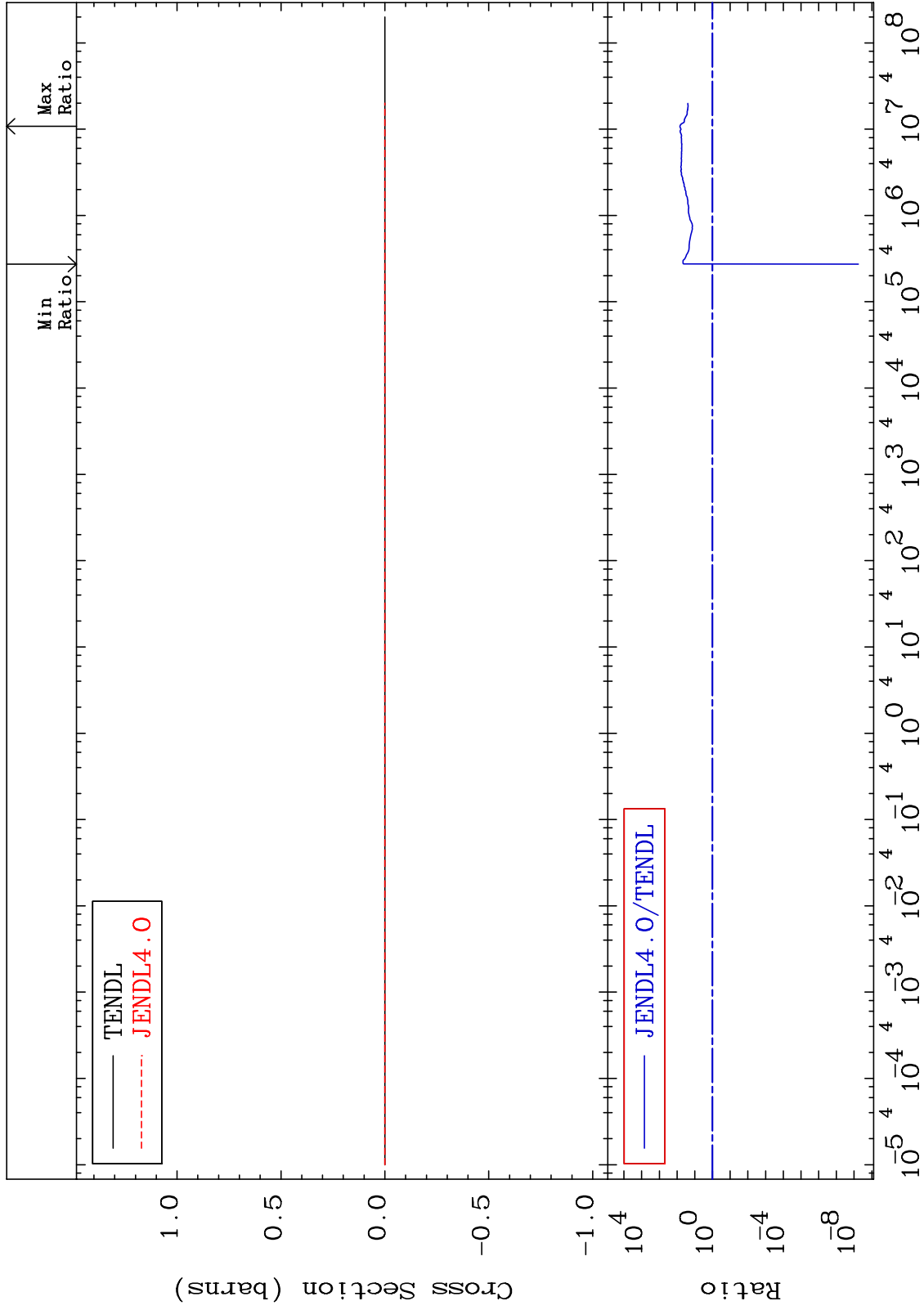
44-Ru-106
-100.0 To 6712. %



MAT 4455

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

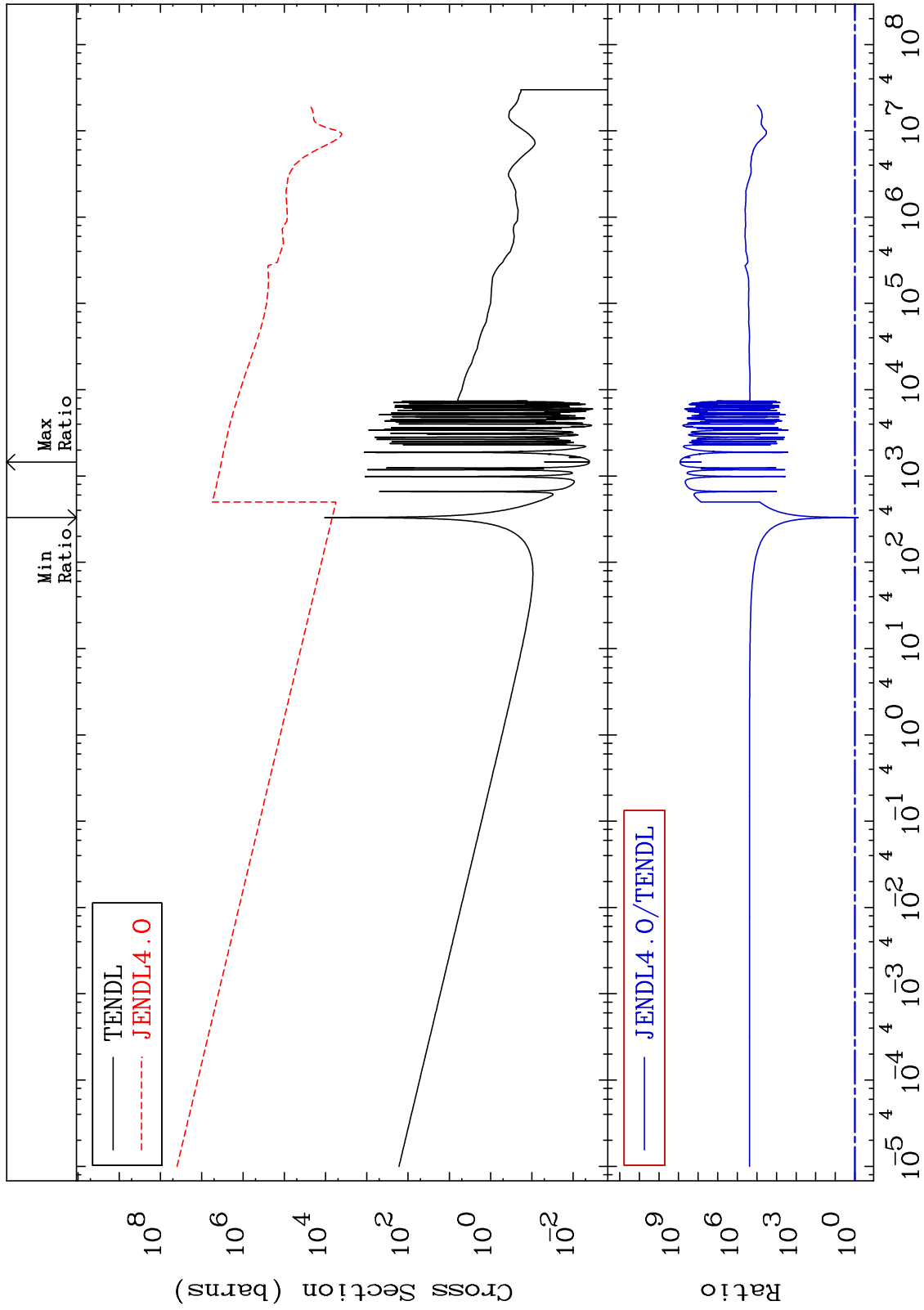
44-Ru-106
-100.0 To 6712. %



MAT 4455

Kerma capture (mt102)
Cross Section

44-Ru-106
-33.82 To 9999. %



27

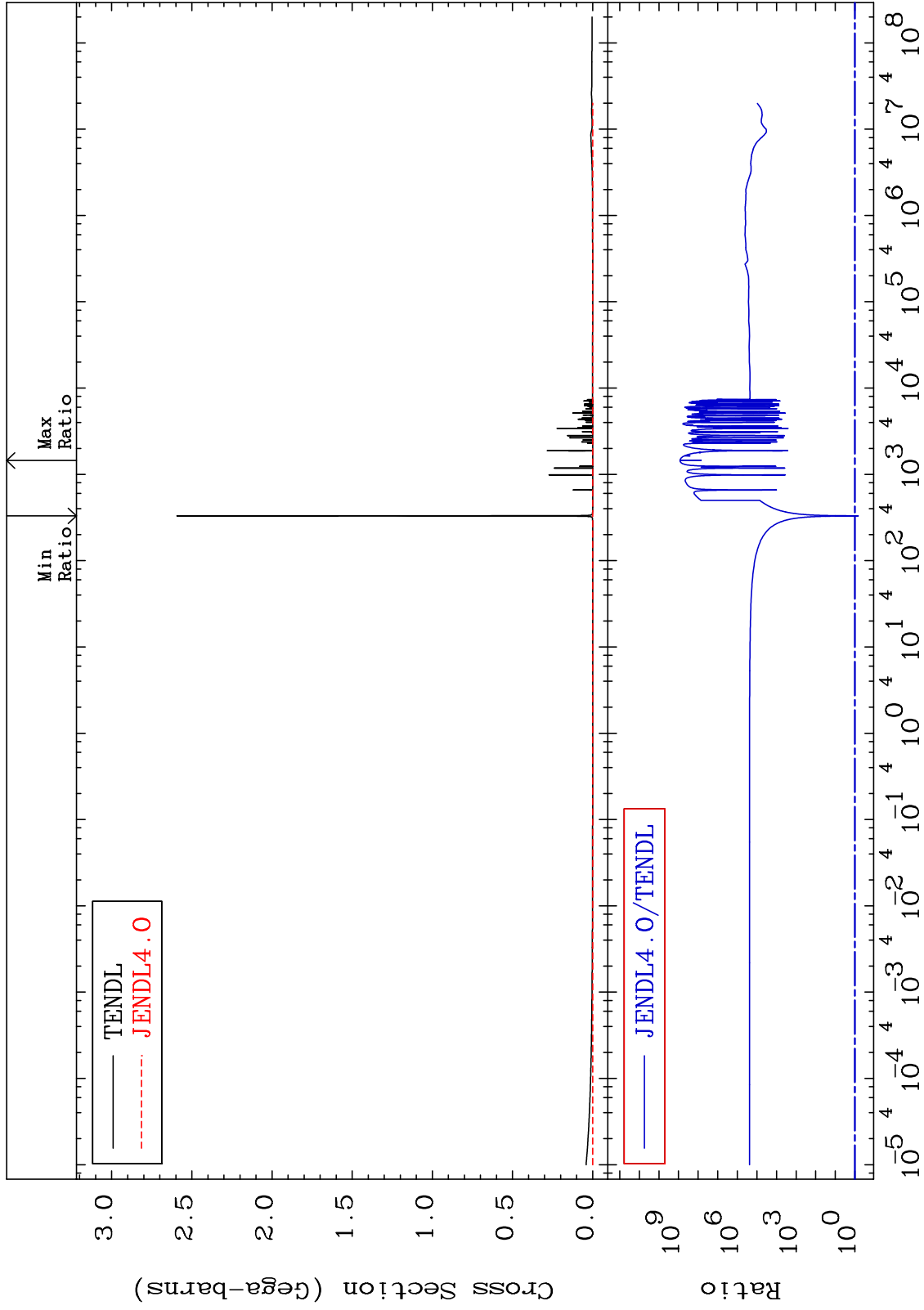
Incident Energy (eV)

44-Ru-106

MAT 4455

Total photon (eV-barns)
Cross Section

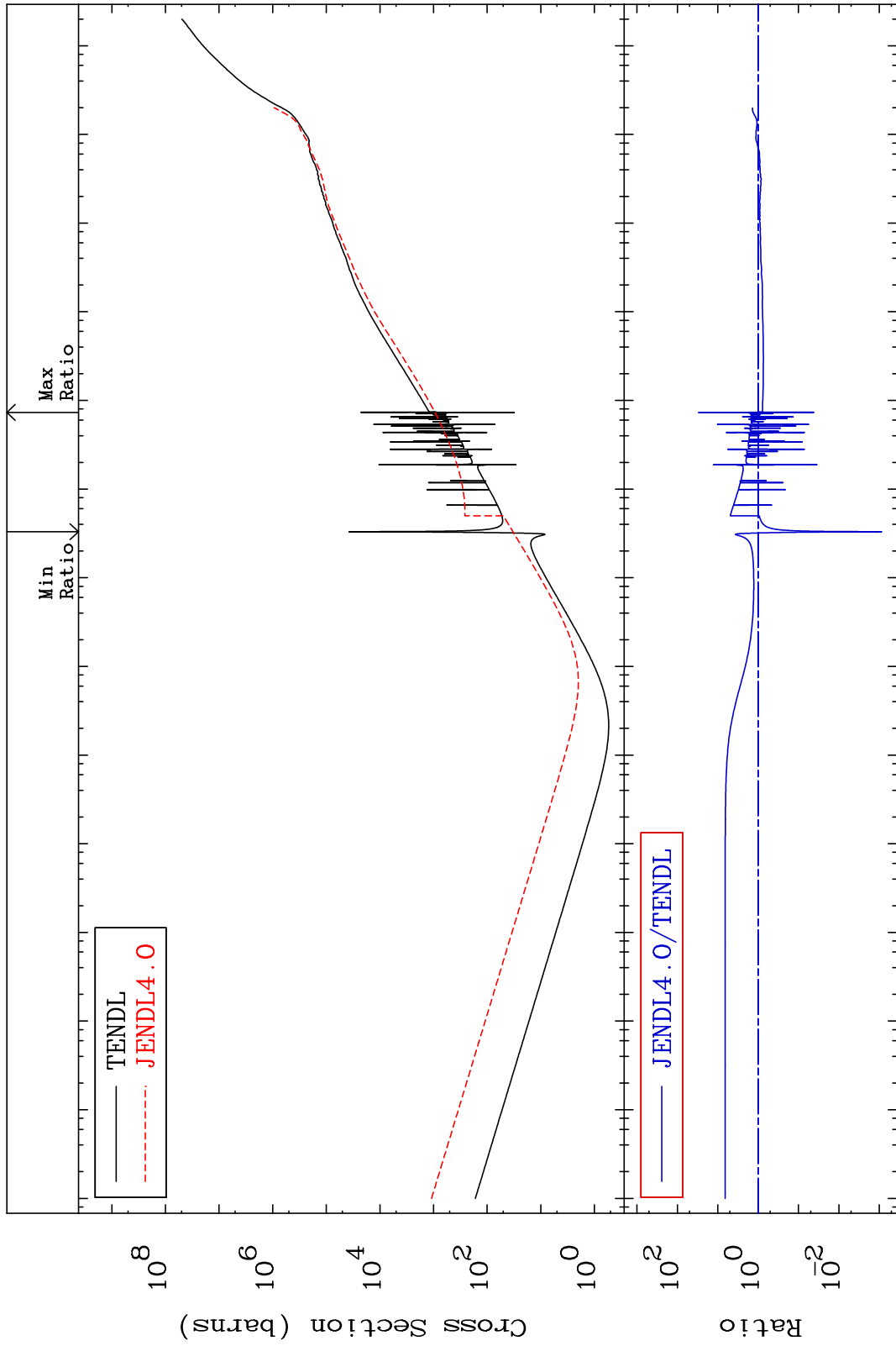
44-Ru-106
-33.82 To 9999. %



MAT 4455

Total kinematic kerma (high limit)
Cross Section

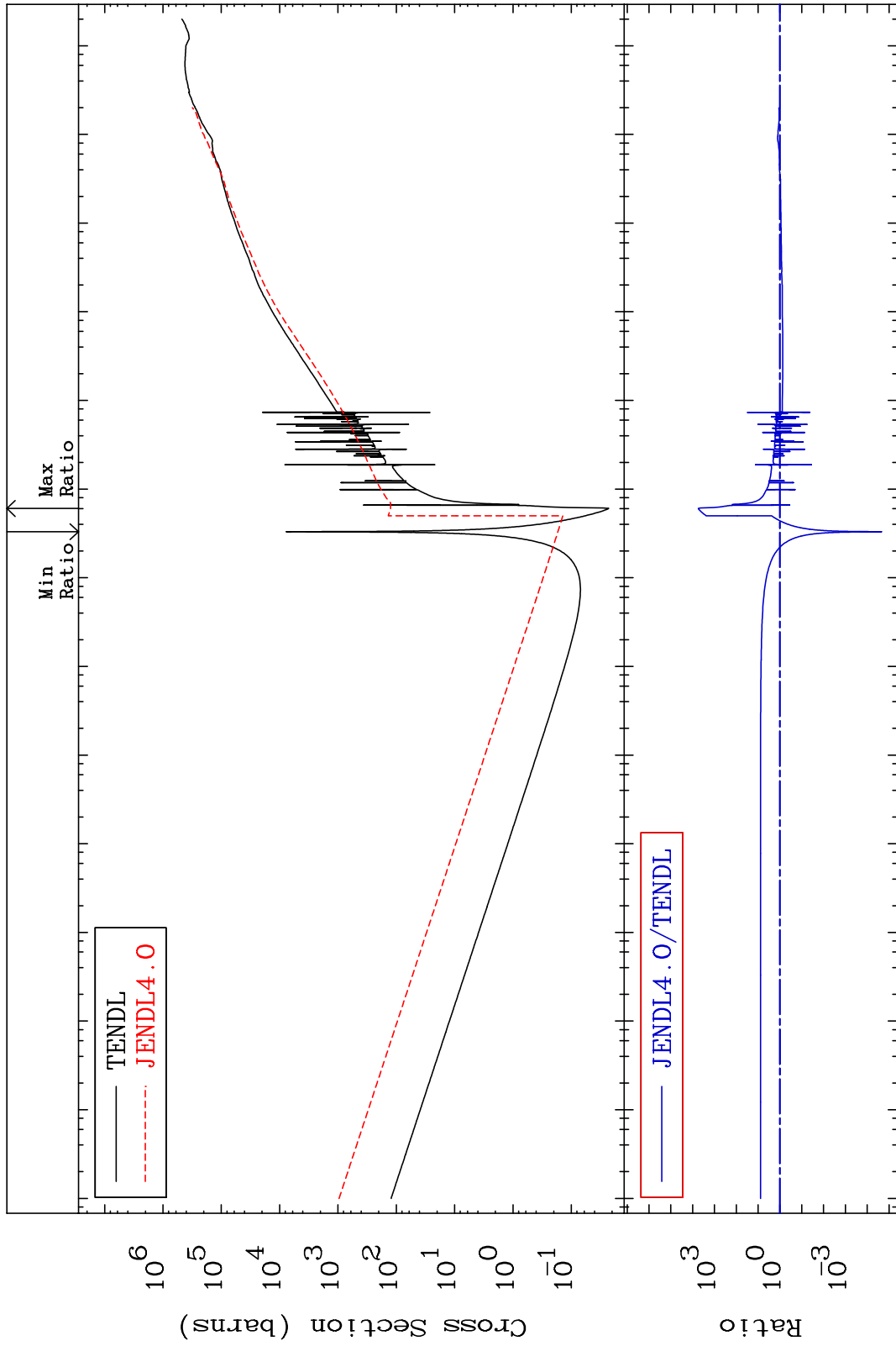
44-Ru-106
-99.91 To 2918. %



MAT 4455

Dpa total (eV-barns)
Cross Section

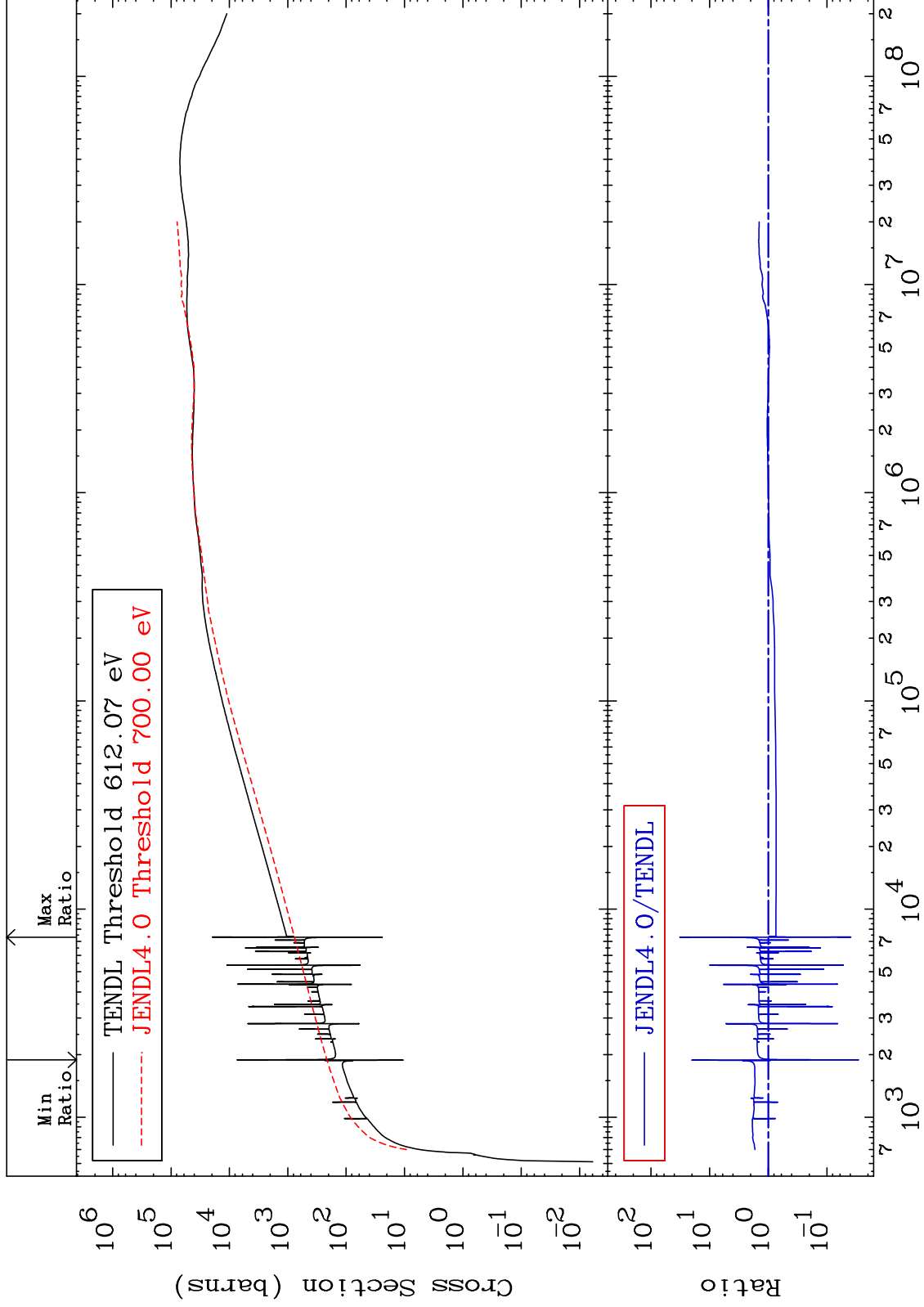
44-Ru-106
-100.0 To 9999. %



MAT 4455

Dpa elastic (mt2)
Cross Section

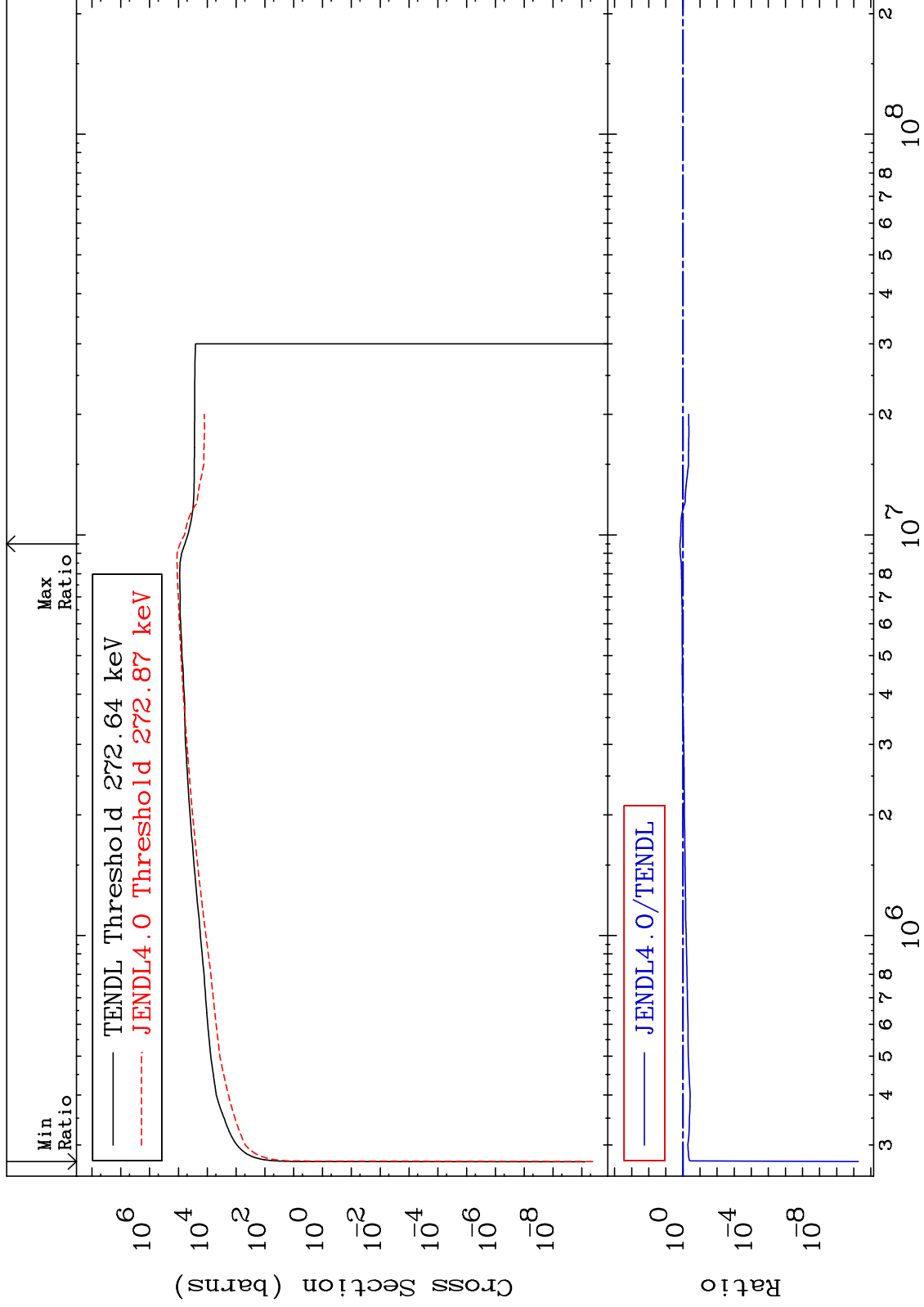
44-Ru-106
-97.08 To 3093. %



MAT 4455

Dpa inelastic (mt51-91)
Cross Section

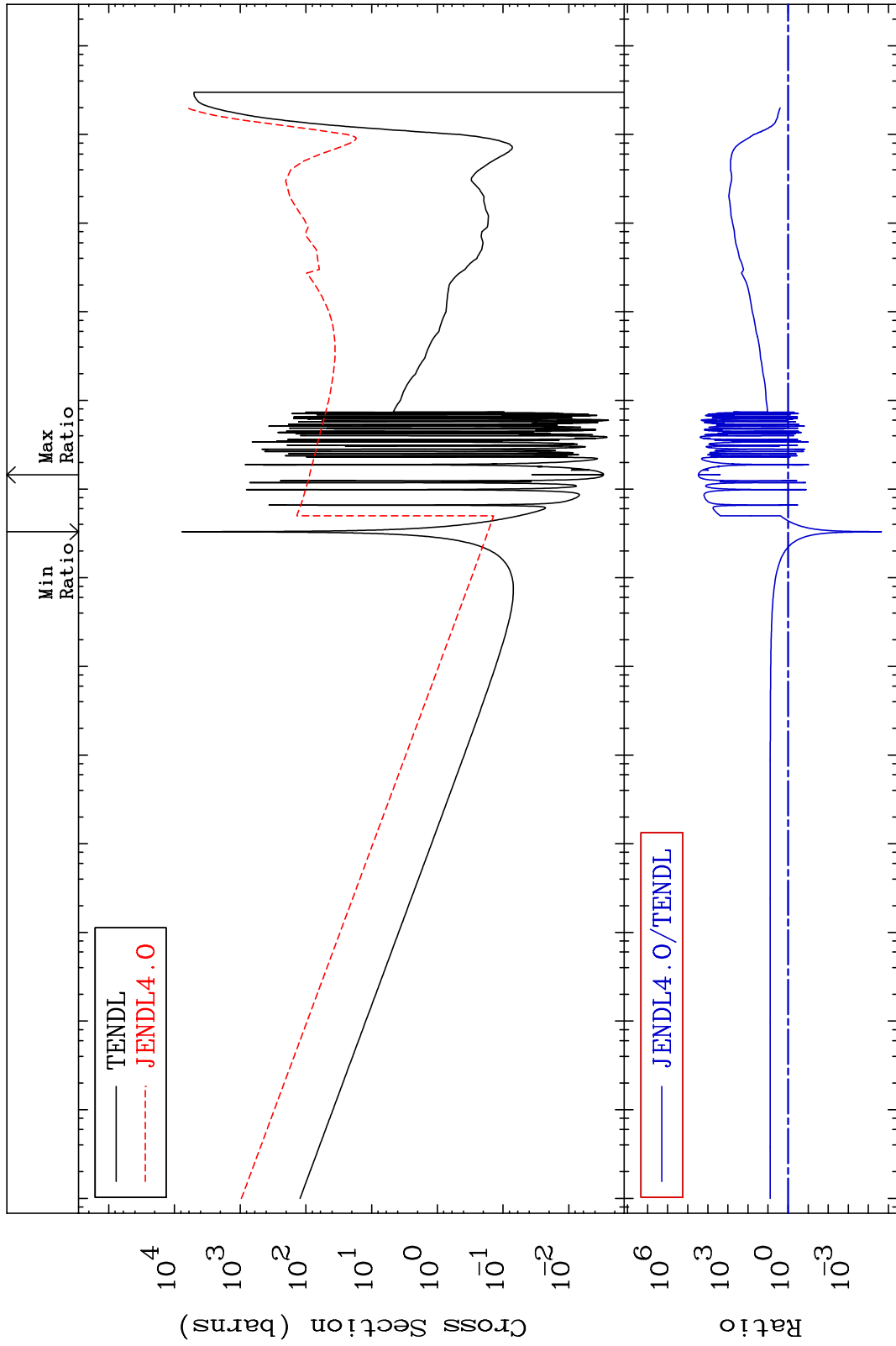
44-Ru-106
-100.0 To 47.93 %



MAT 4455

Dpa disappearance (mt102 -120)
Cross Section

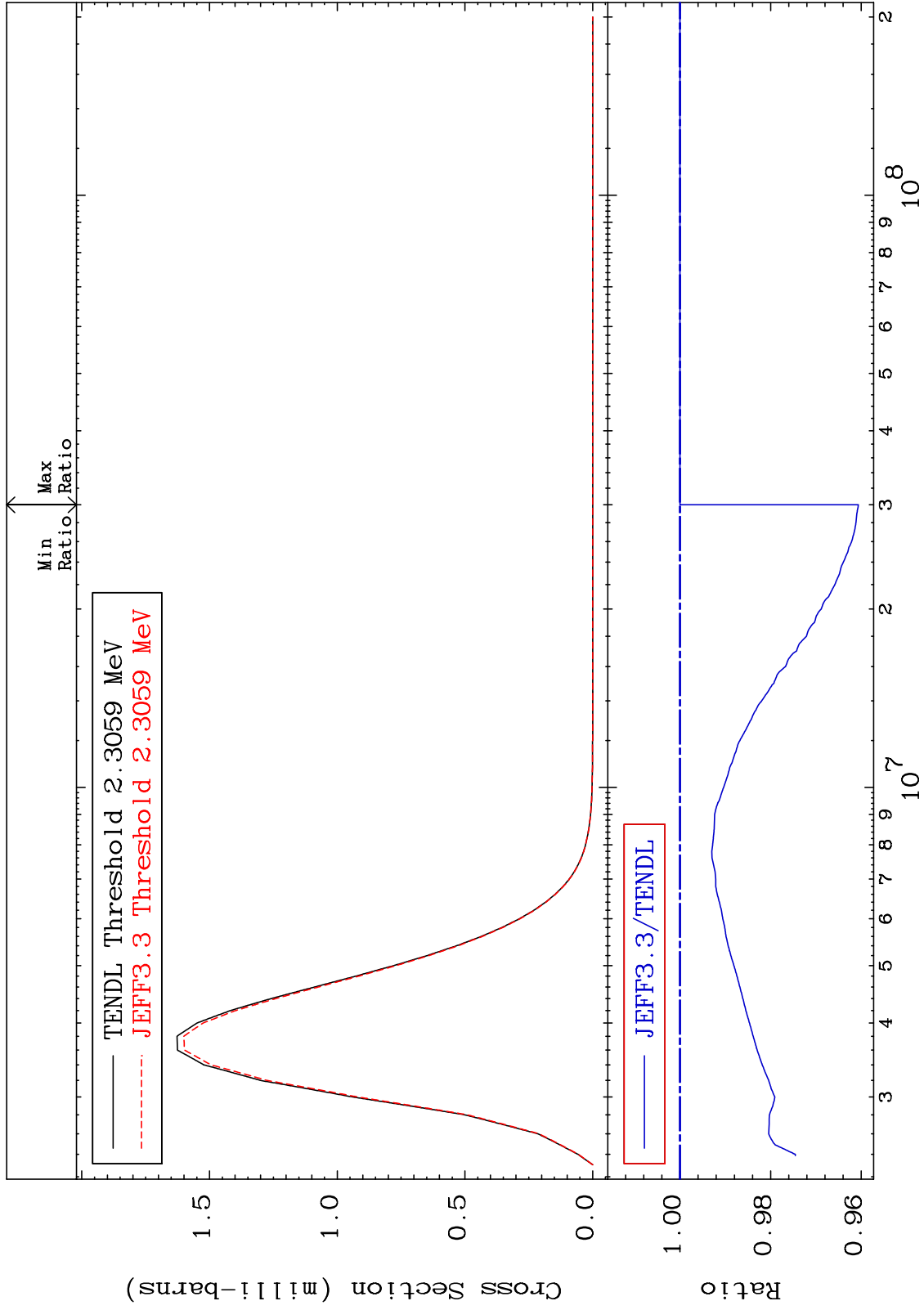
44-Ru-106
-100.0 To 9999. %



MAT 4455

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

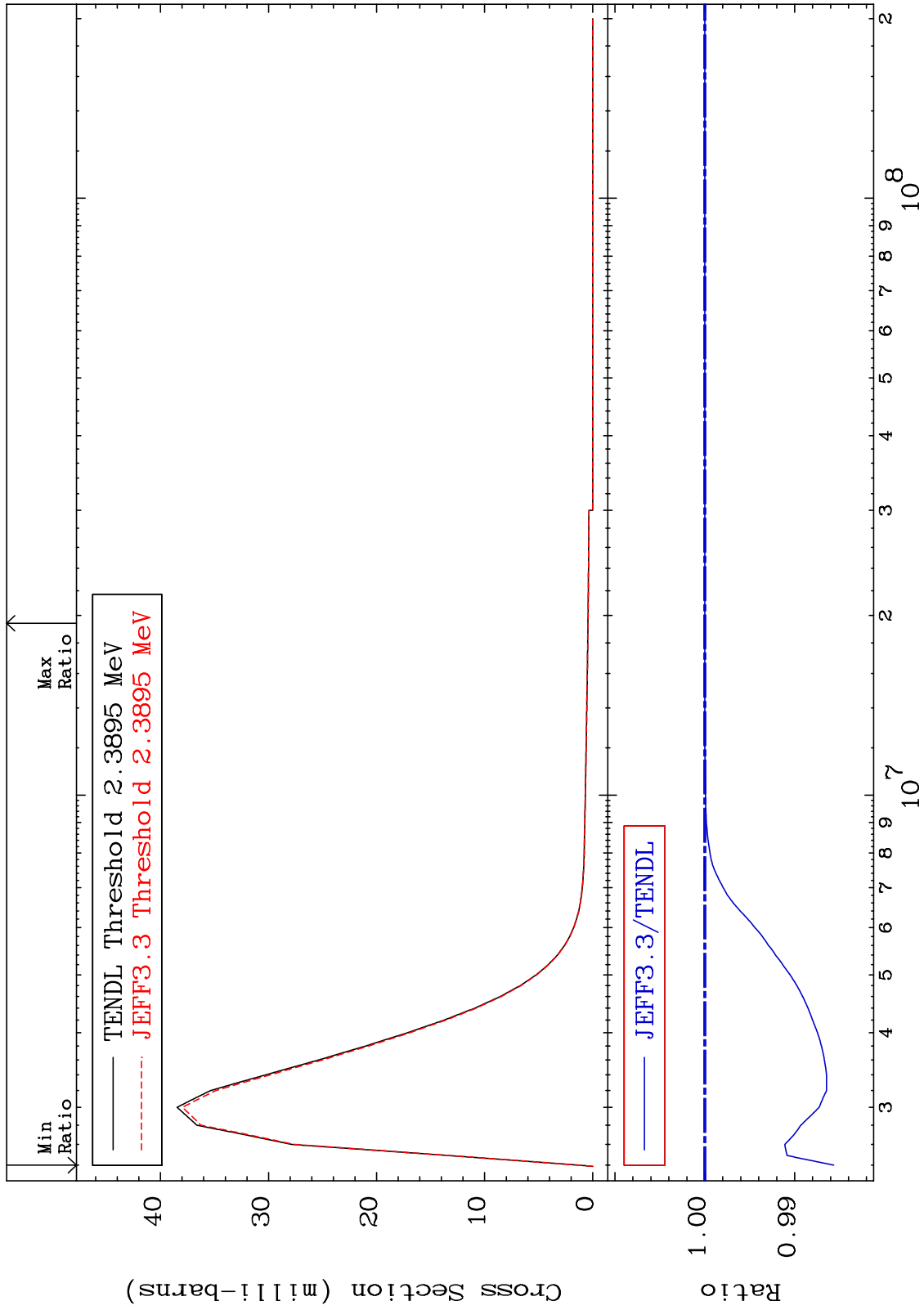
44-Ru-106
-3.938 To 0.000 %



MAT 4455

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

44-Ru-106
-1.434 To 0.000 %

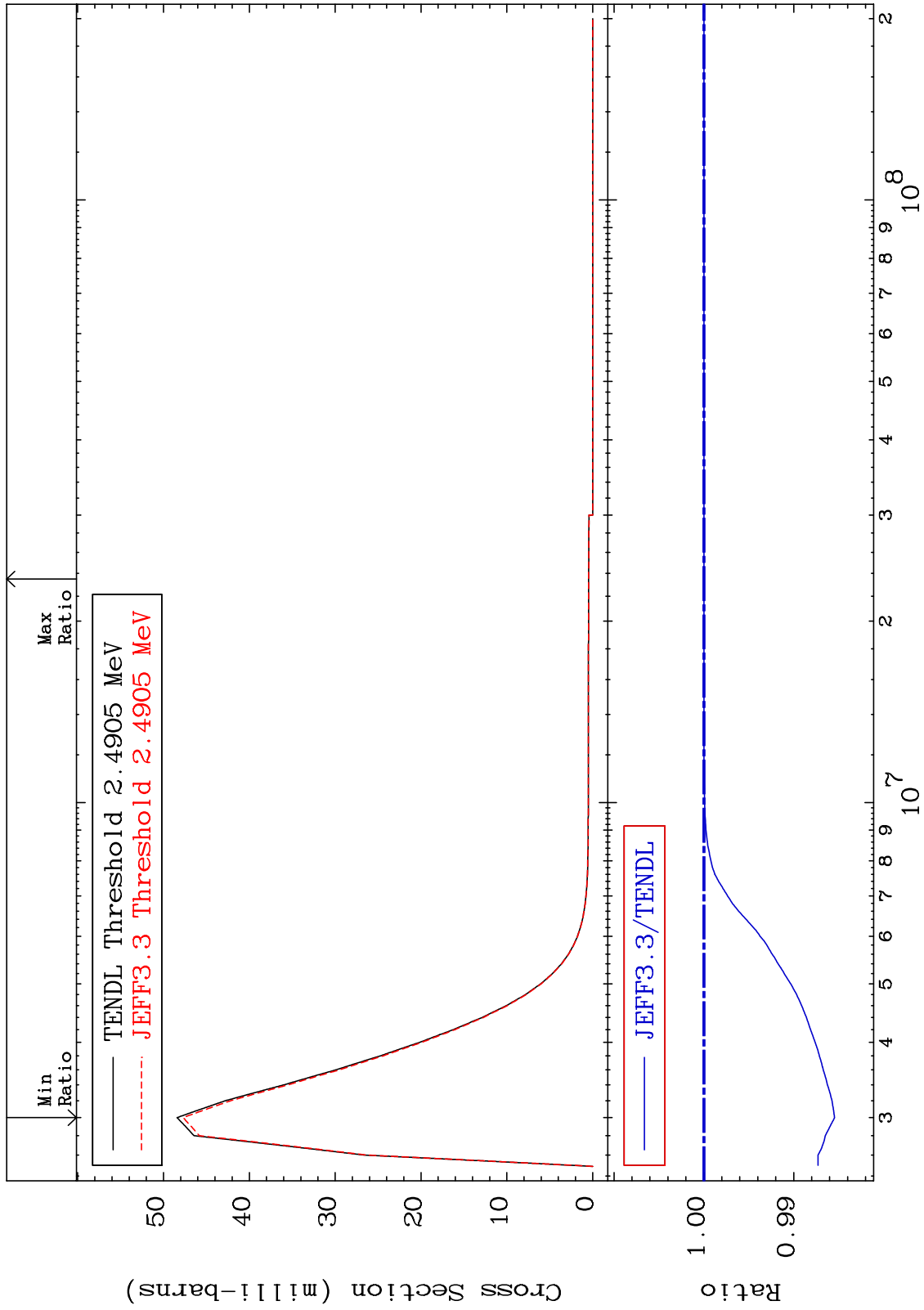


35

Incident Energy (eV)

44-Ru-106

MAT 4455 MT= 69 (n, n') Level Cross Section 44-Ru-106
 -1.455 To 0.000 %



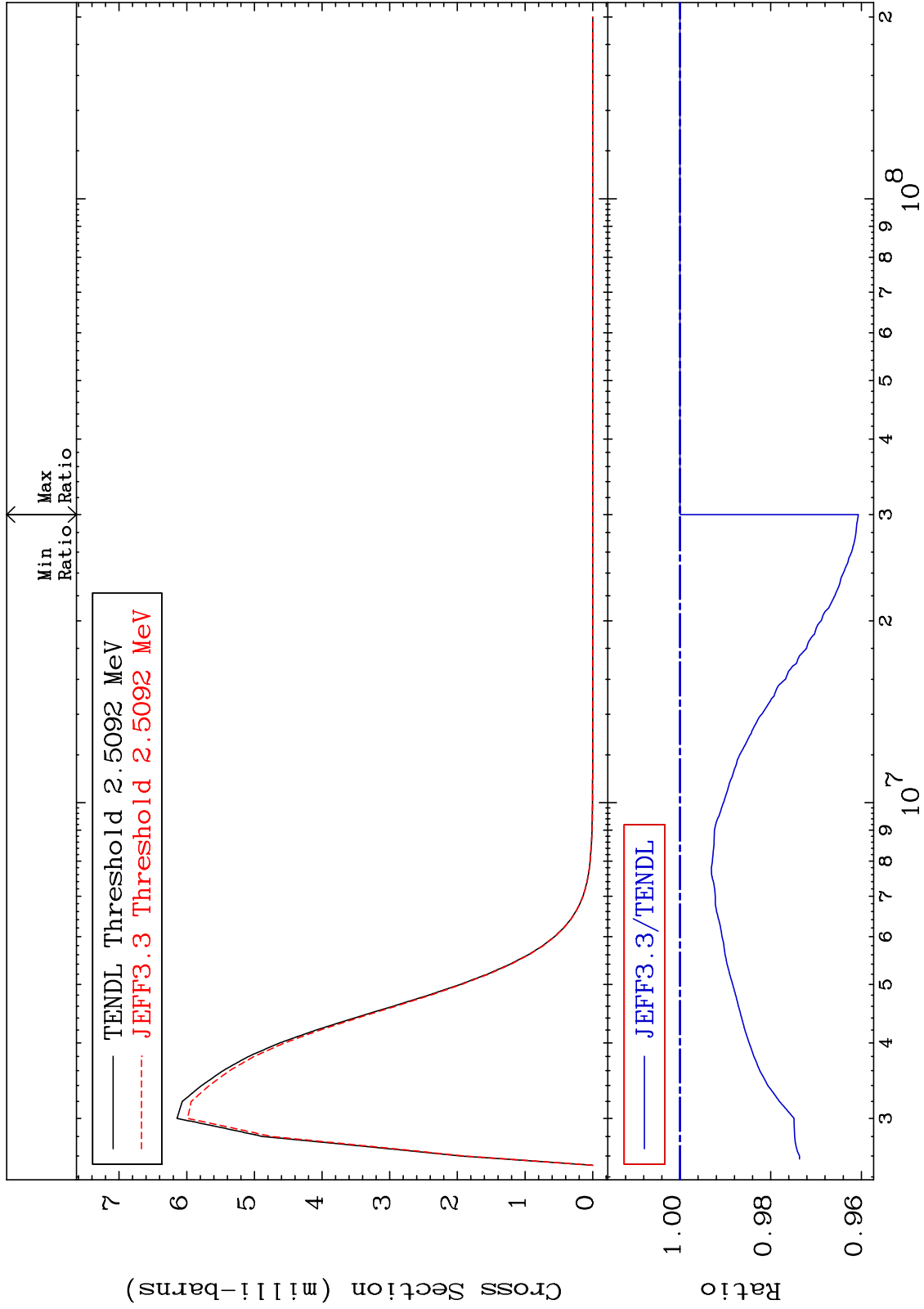
44-Ru-106

Incident Energy (eV)

MAT 4455

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

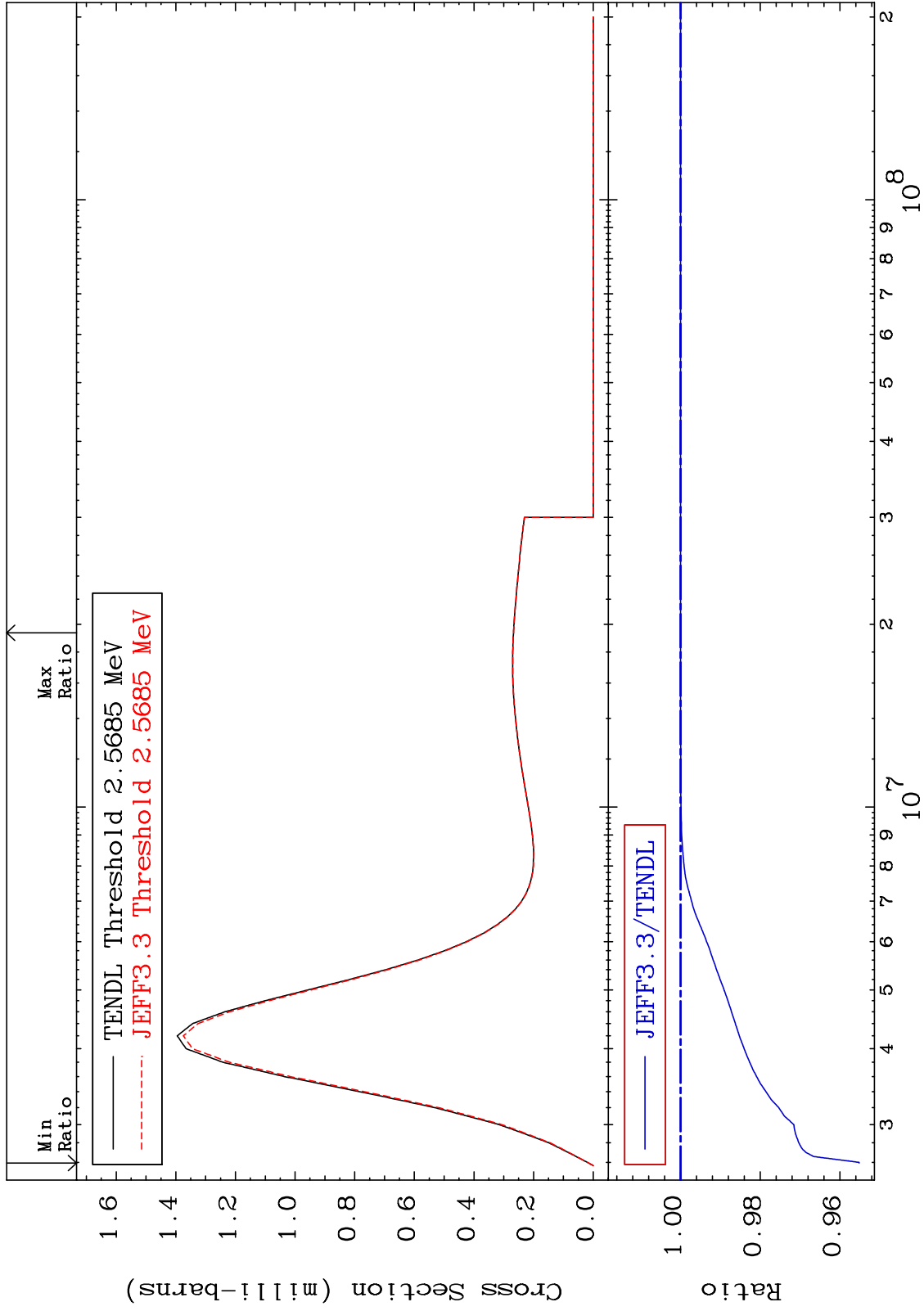
44-Ru-106
-3.935 To 0.000 %



MAT 4455

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

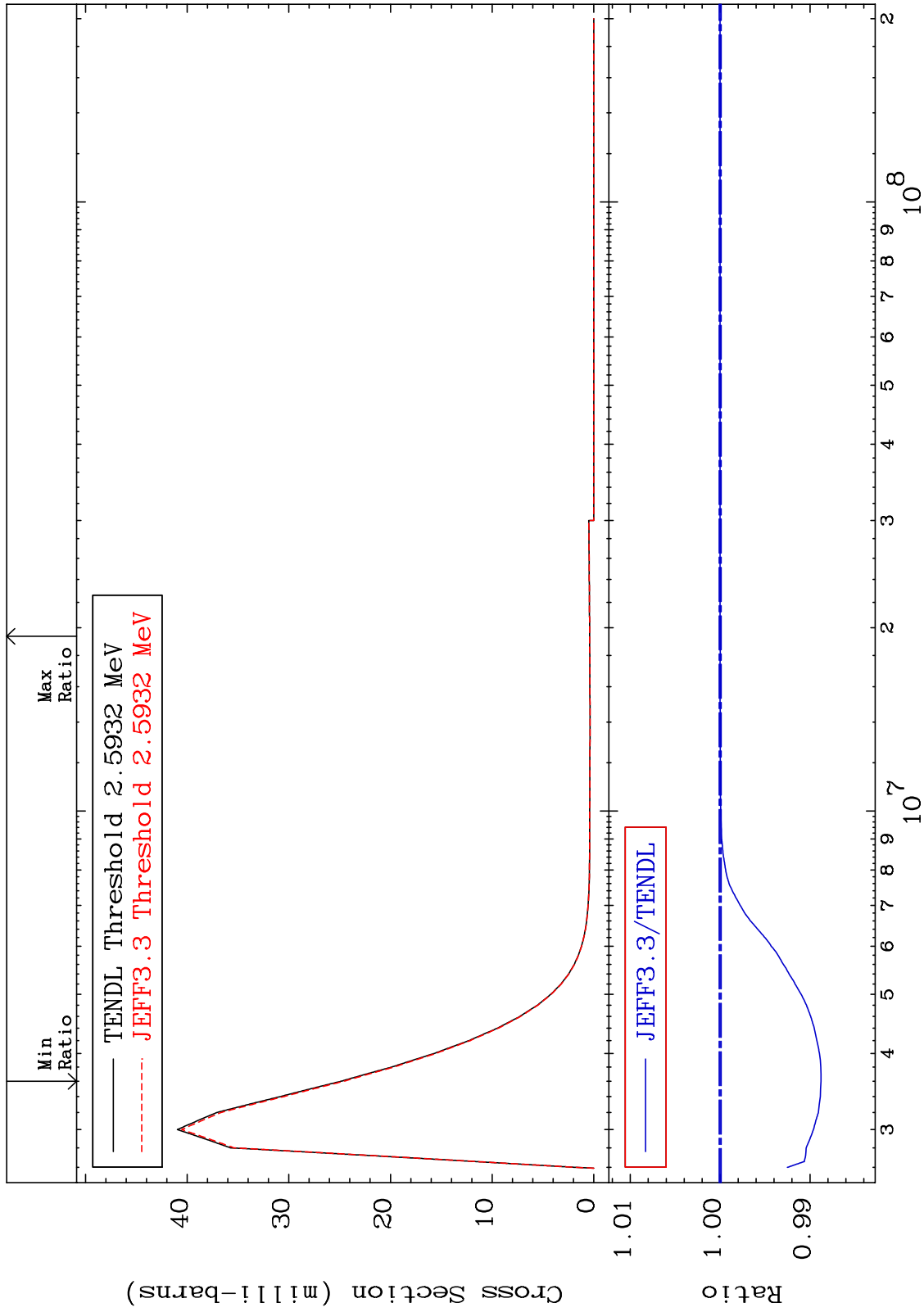
44-Ru-106
-4.484 To 0.000 %



MAT 4455

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

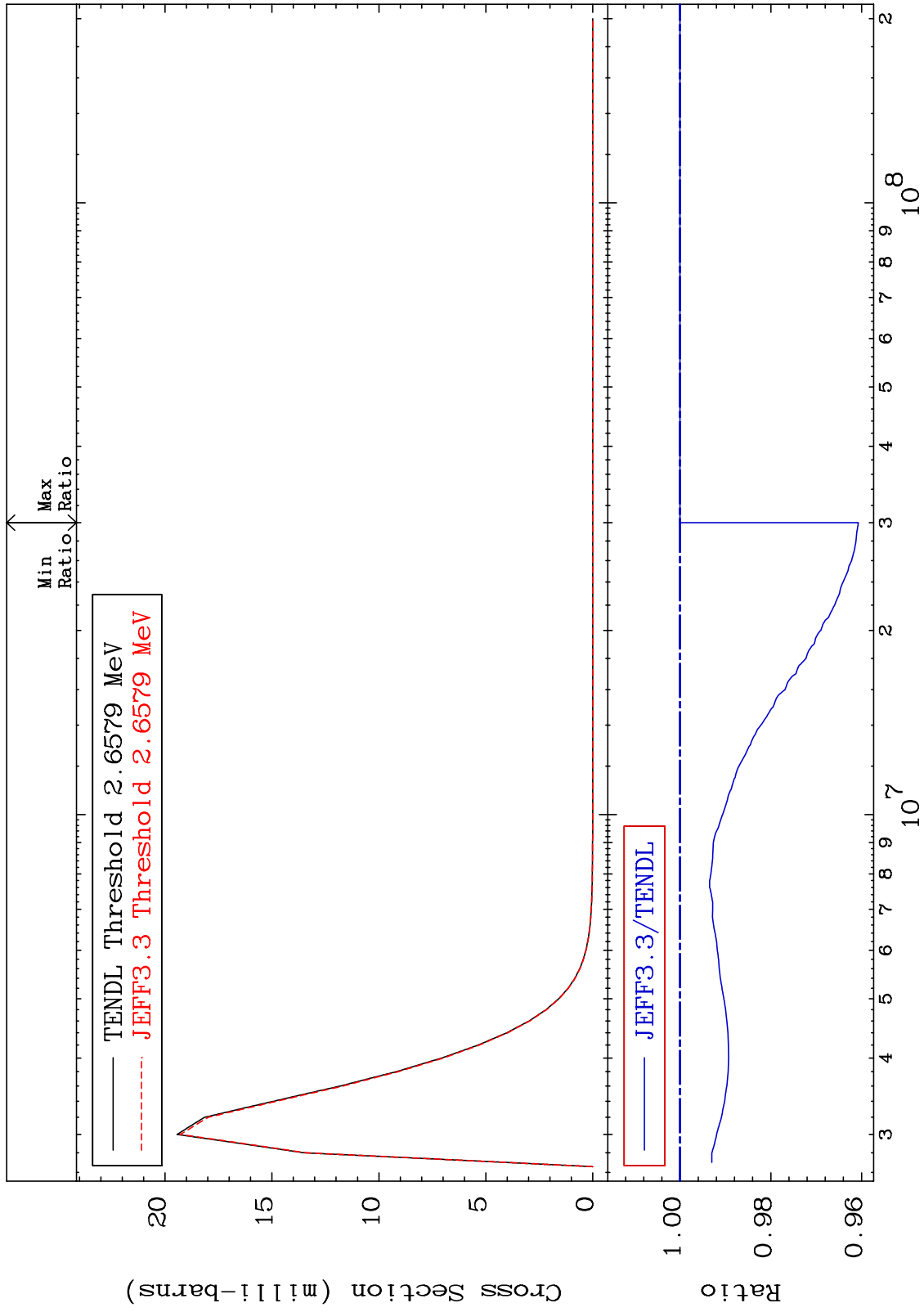
44-Ru-106
-1.123 To 0.000 %



MAT 4455

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

44-Ru-106
-3.930 To 0.000 %

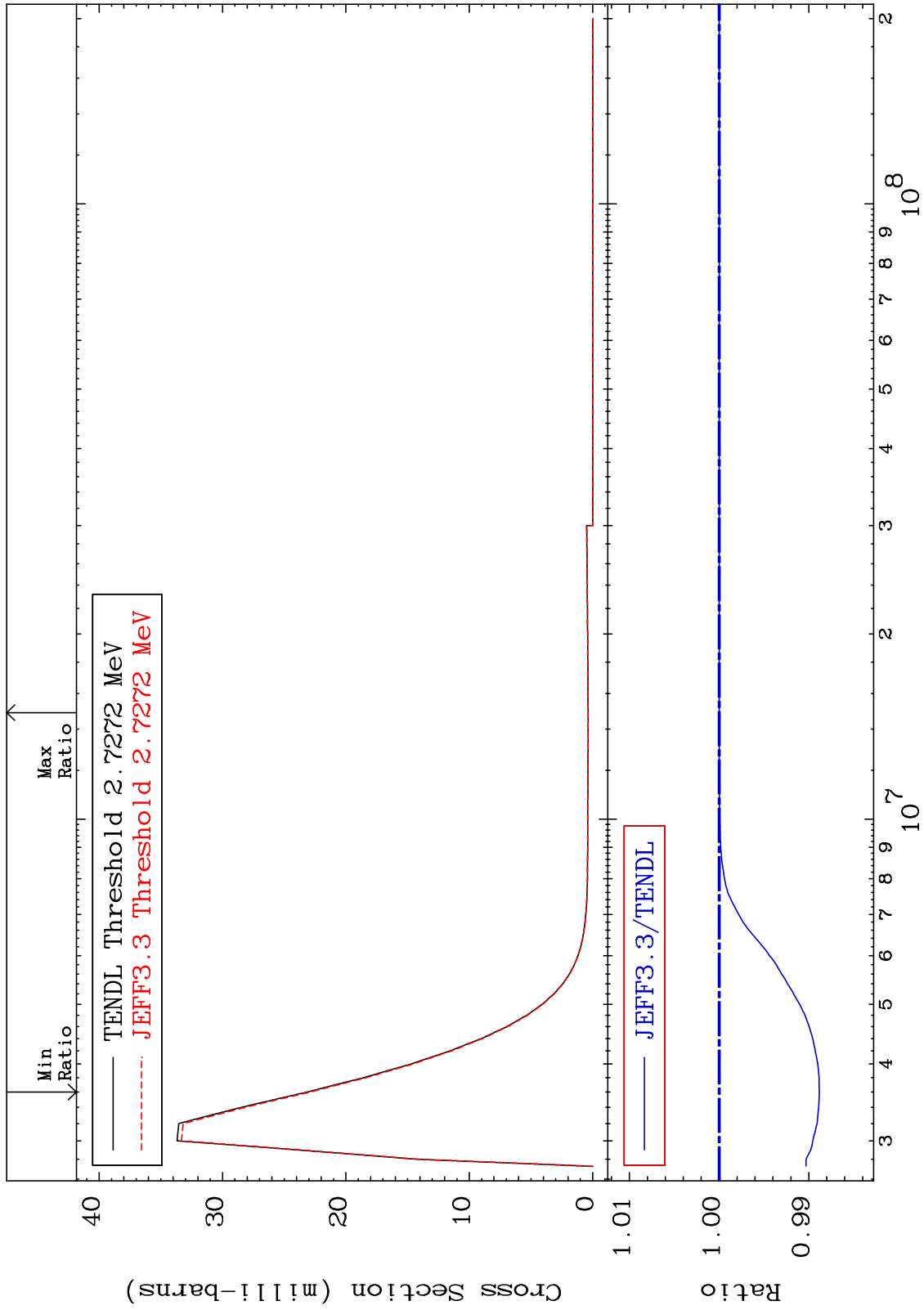


40

Incident Energy (eV)

44-Ru-106

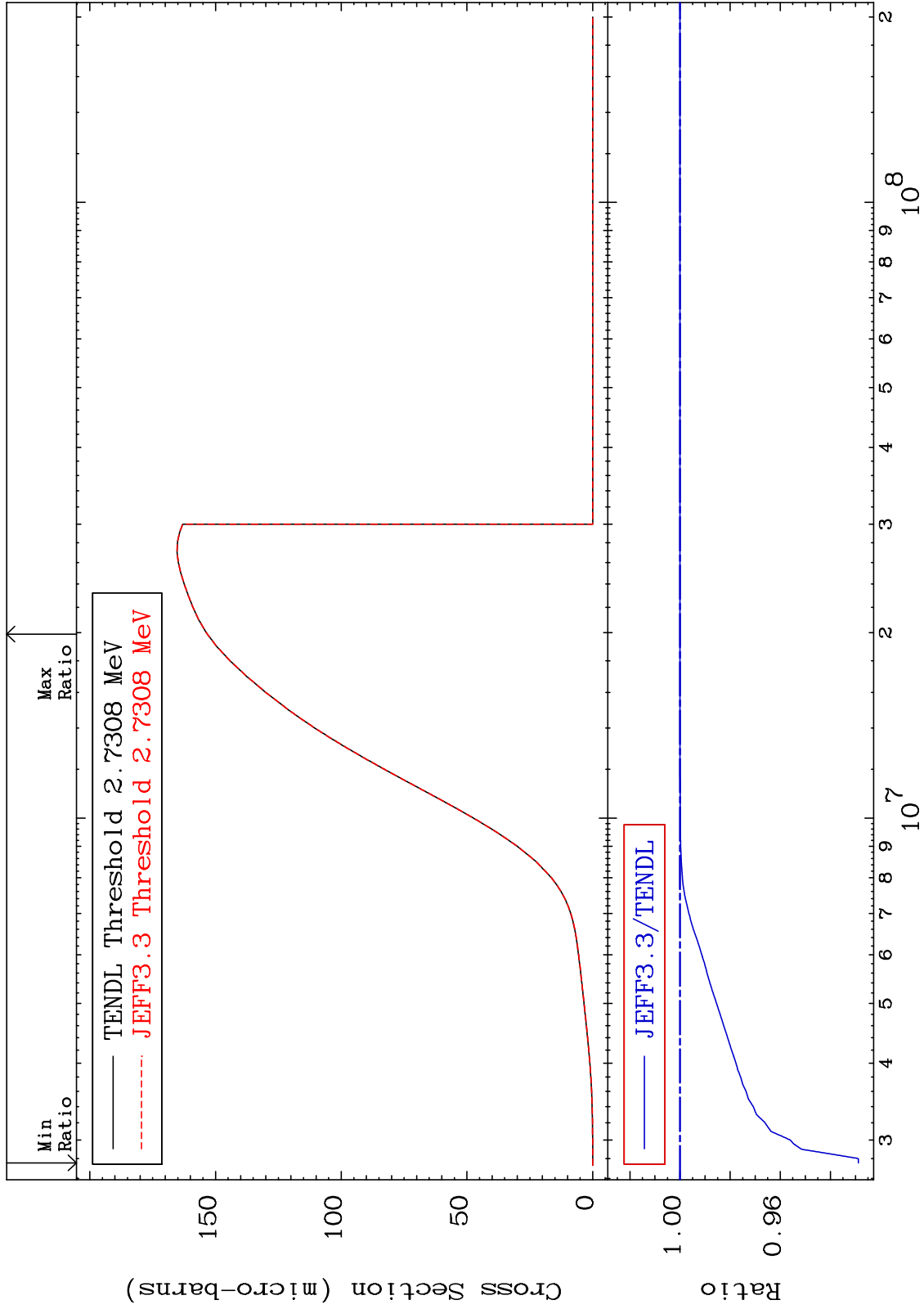
MAT 4455 MT= 74 (n,n') Level 44-Ru-106
 Cross Section -1.116 To 0.000 %



MAT 4455

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

44-Ru-106
-7.118 To 0.000 %



42

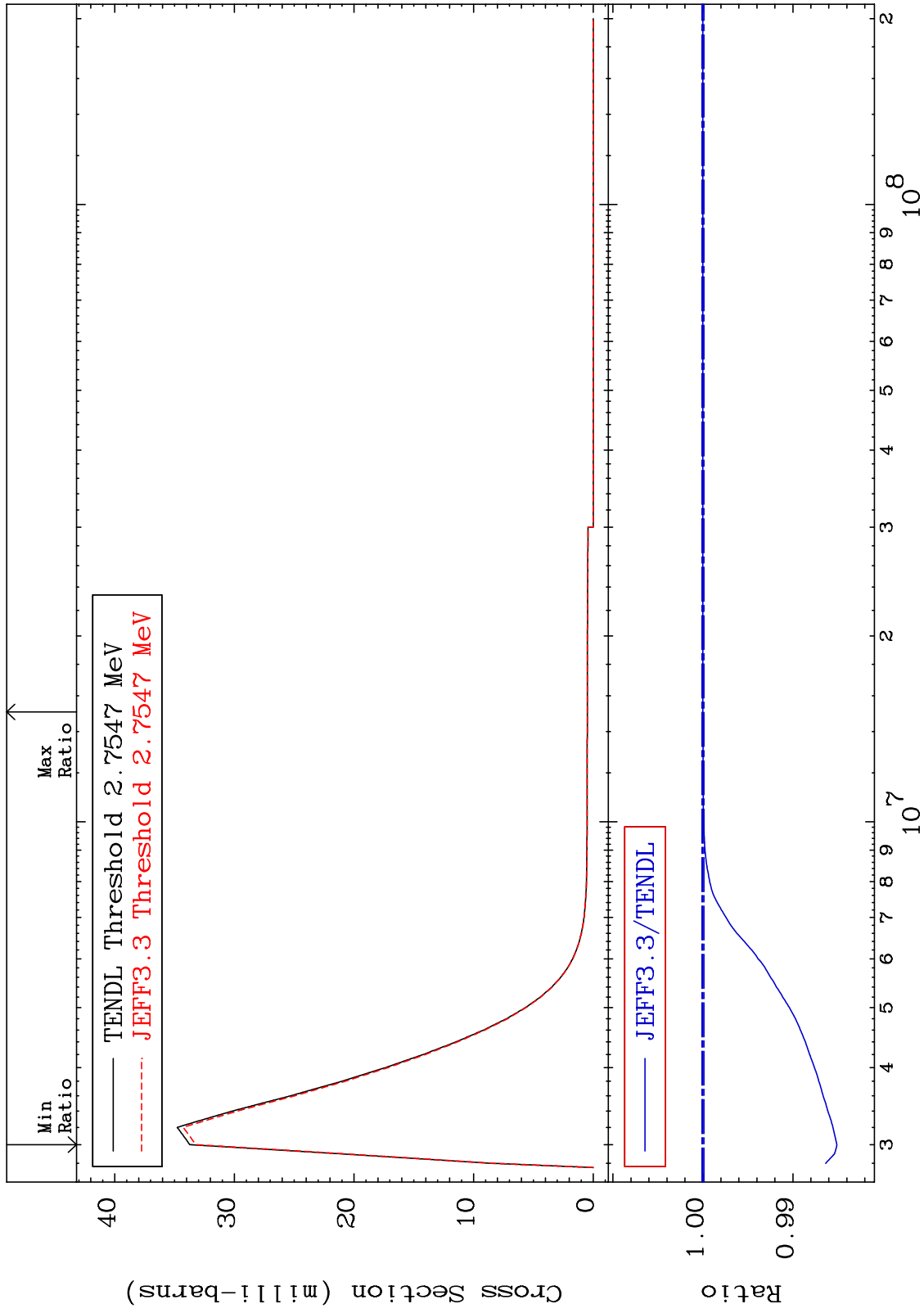
Incident Energy (eV)

44-Ru-106

MAT 4455

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

44-Ru-106
-1.489 To 0.000 %

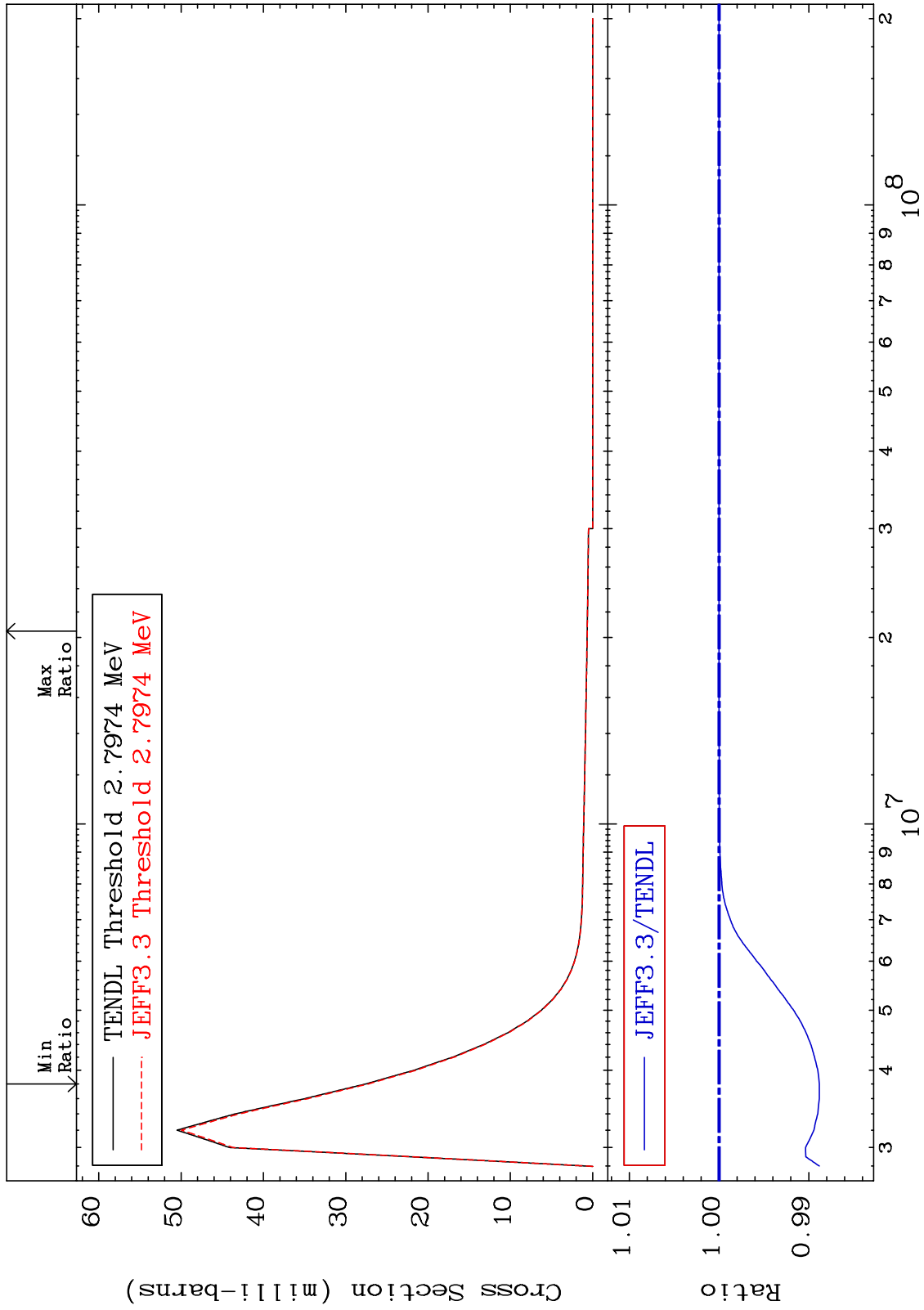


43

Incident Energy (eV)

44-Ru-106

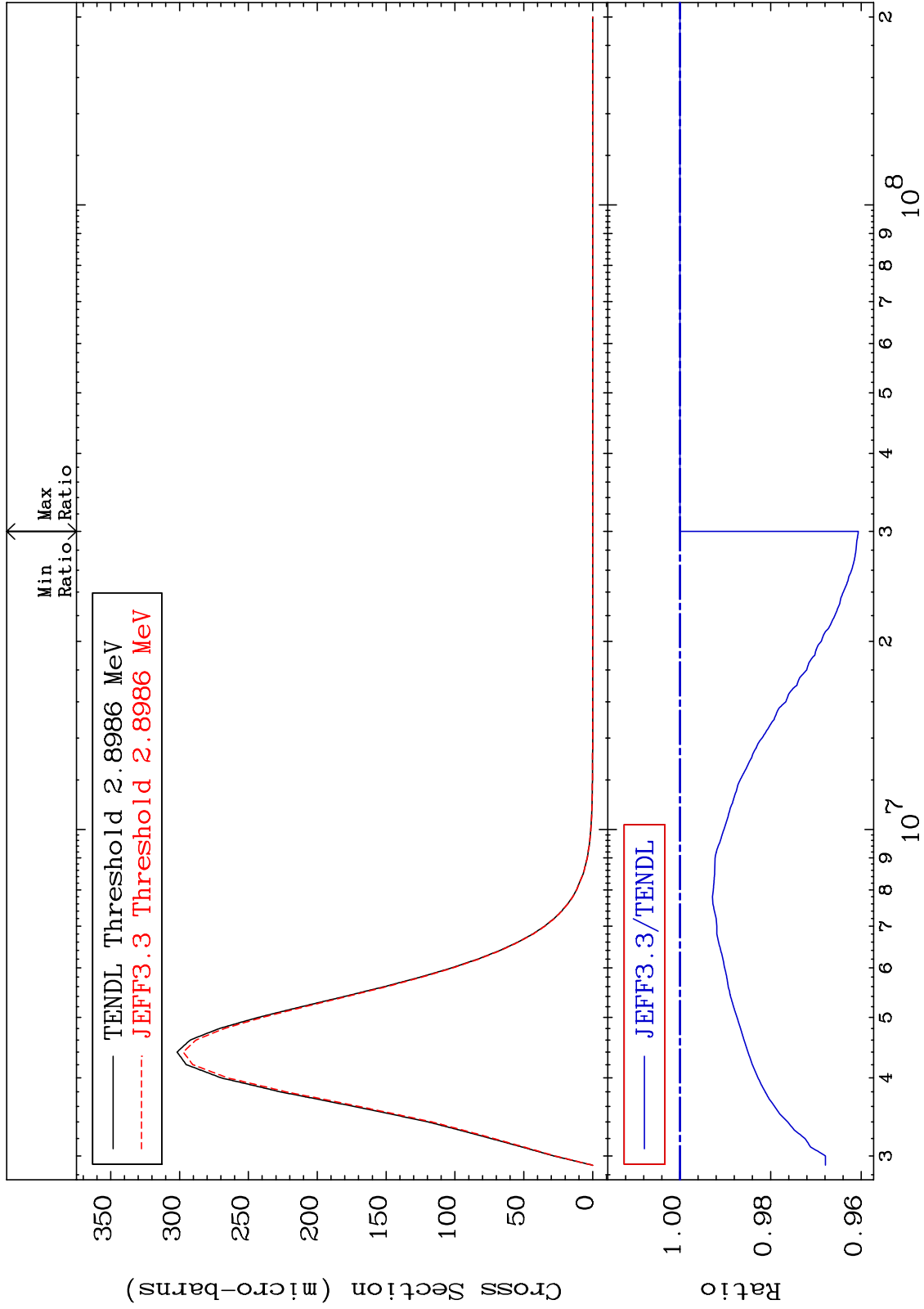
MAT 4455 MT= 77 (n,n') Level 44-Ru-106
 Cross Section -1.118 To 0.000 %



MAT 4455

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

44-Ru-106
-3.940 To 0.000 %



45

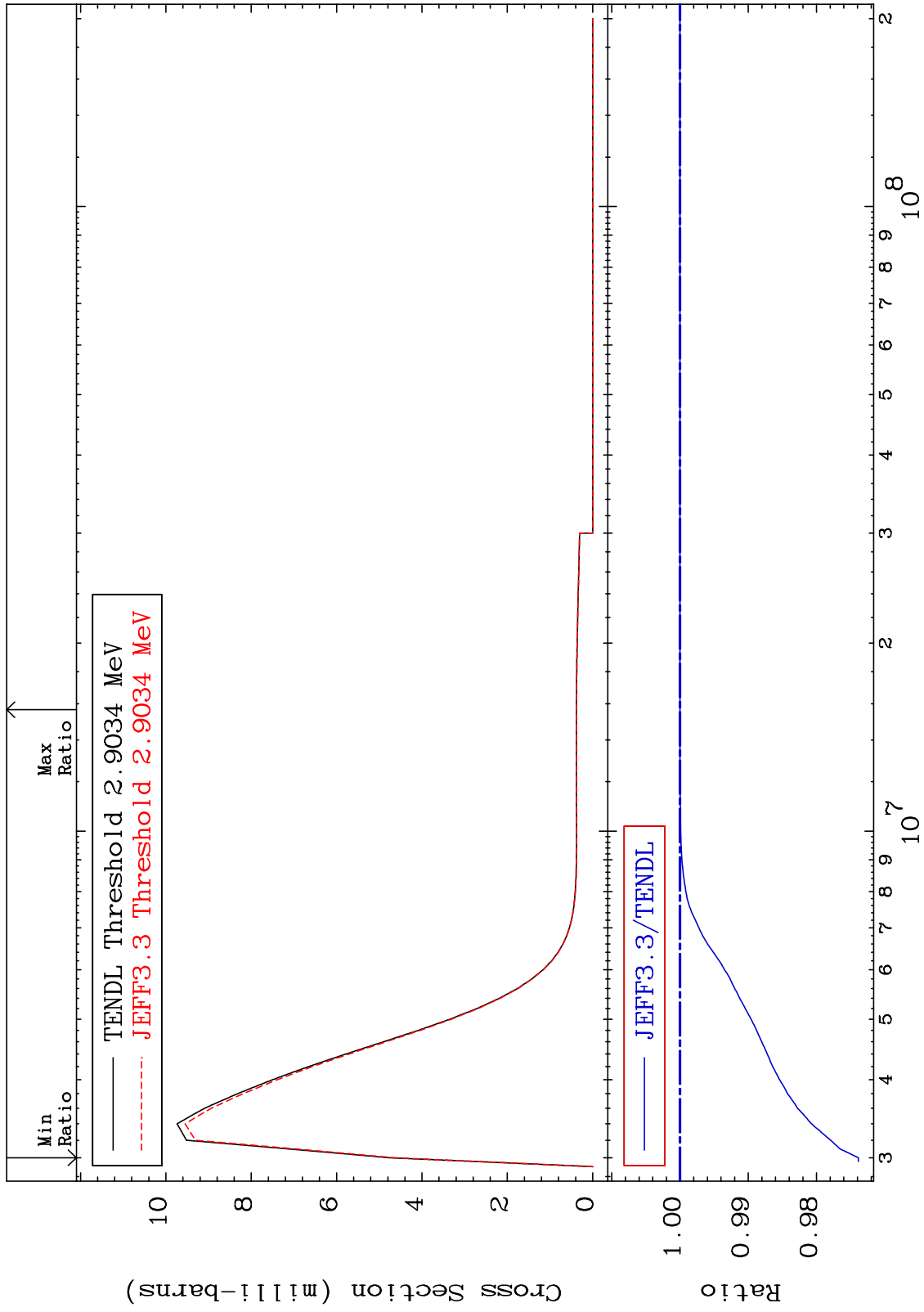
Incident Energy (eV)

44-Ru-106

MAT 4455

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

44-Ru-106
-2.613 To 0.000 %



46

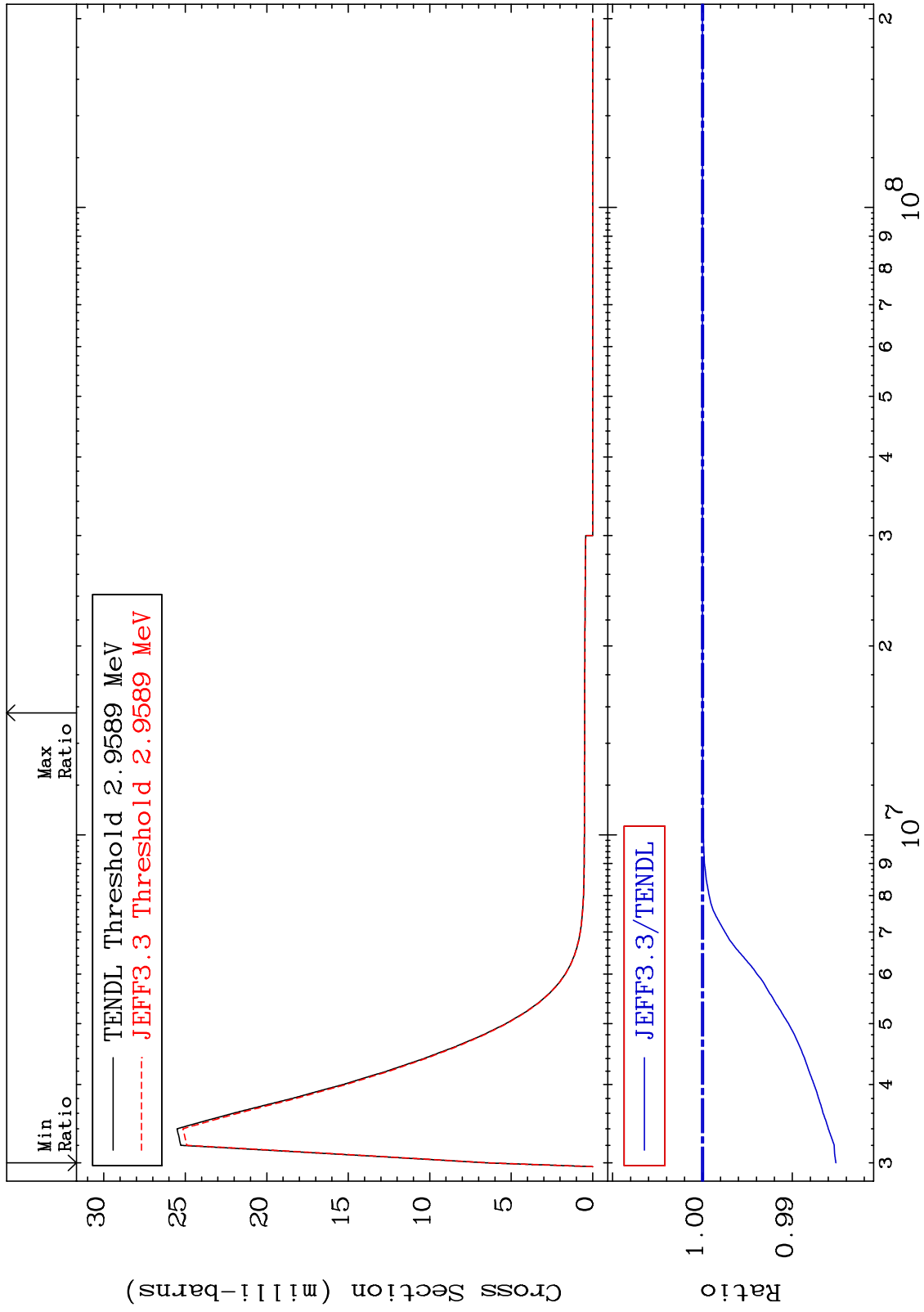
Incident Energy (eV)

44-Ru-106

MAT 4455

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

44-Ru-106
-1.484 To 0.000 %



47

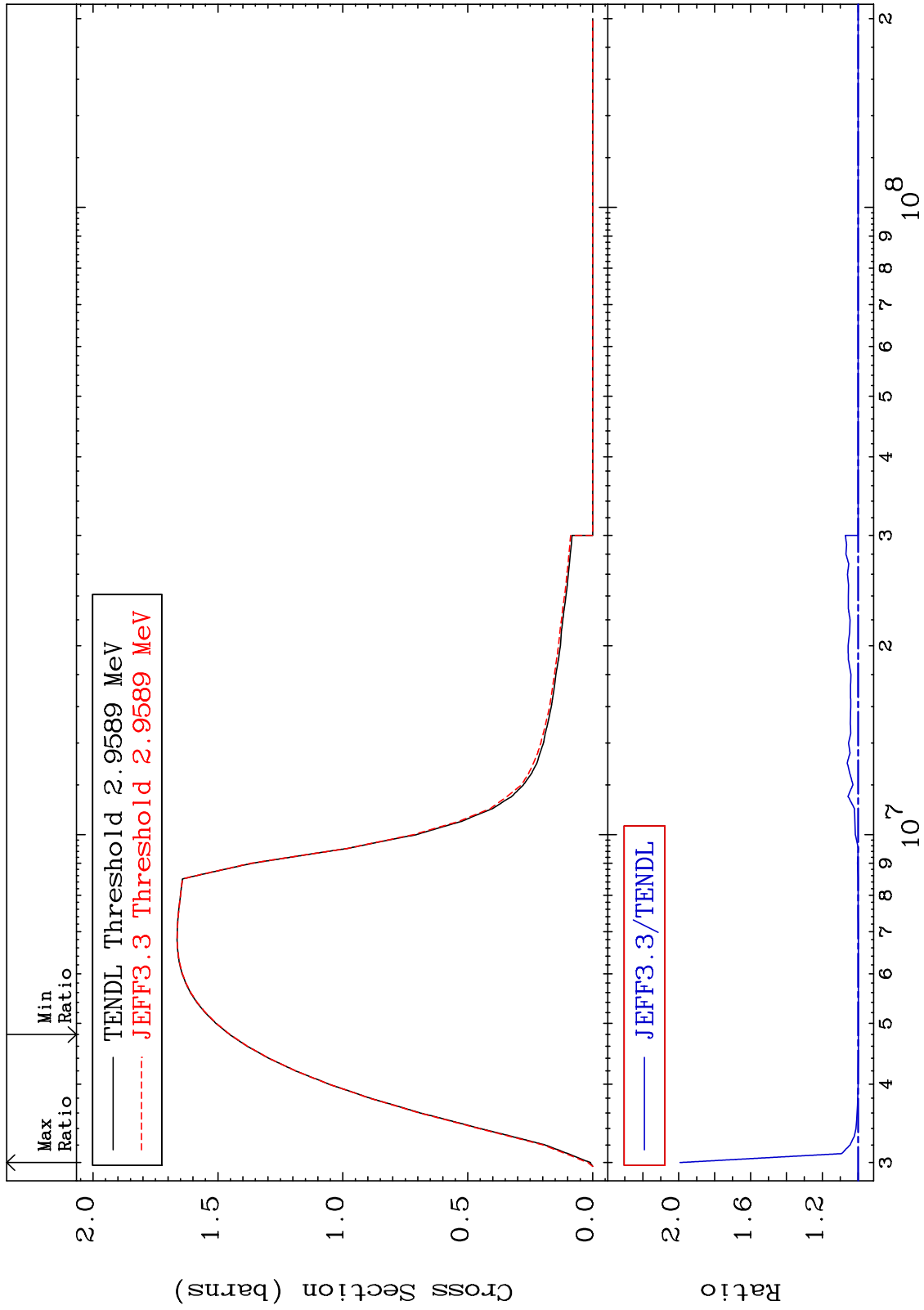
Incident Energy (eV)

44-Ru-106

MAT 4455

(n, n') Continuum
Cross Section

44-Ru-106
-0.114 To 99.28 %



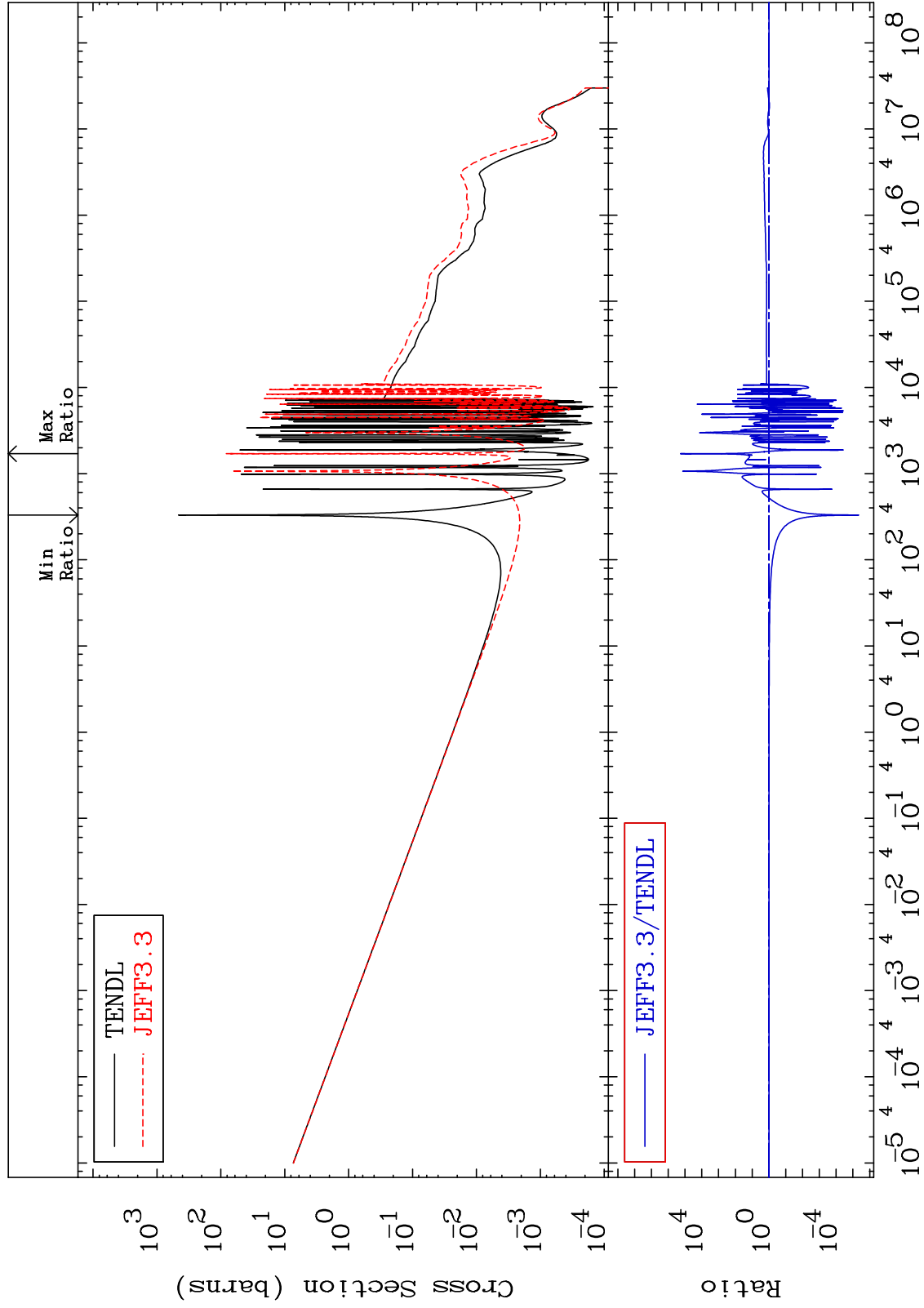
44-Ru-106

Incident Energy (eV)

MAT 4455

(n, γ)
Cross Section

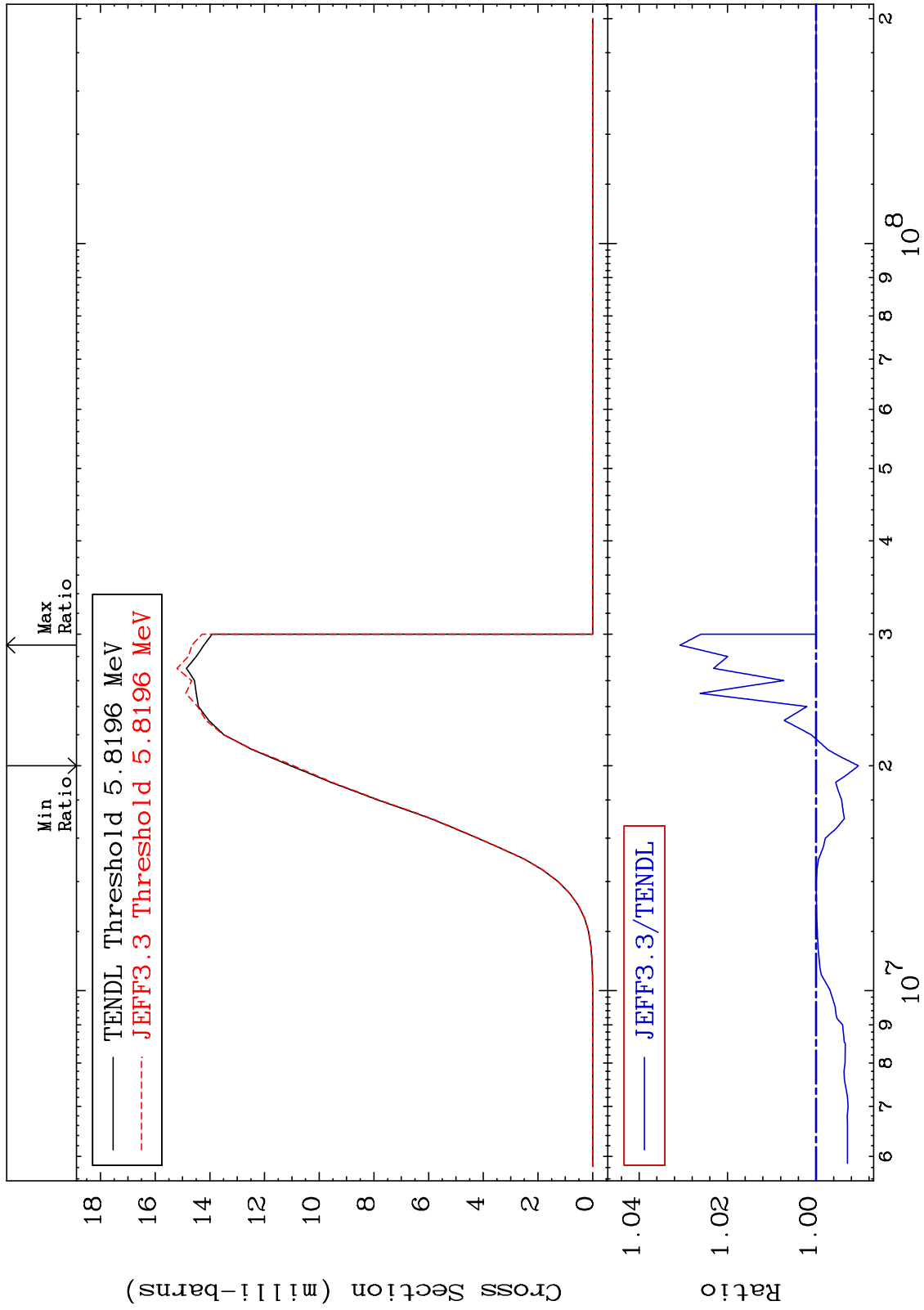
44-Ru-106
-100.0 To 9999. %



MAT 4455

44-Ru-106

(n,p)
Cross Section
-0.960 To 3.076 %



50

Incident Energy (eV)

44-Ru-106

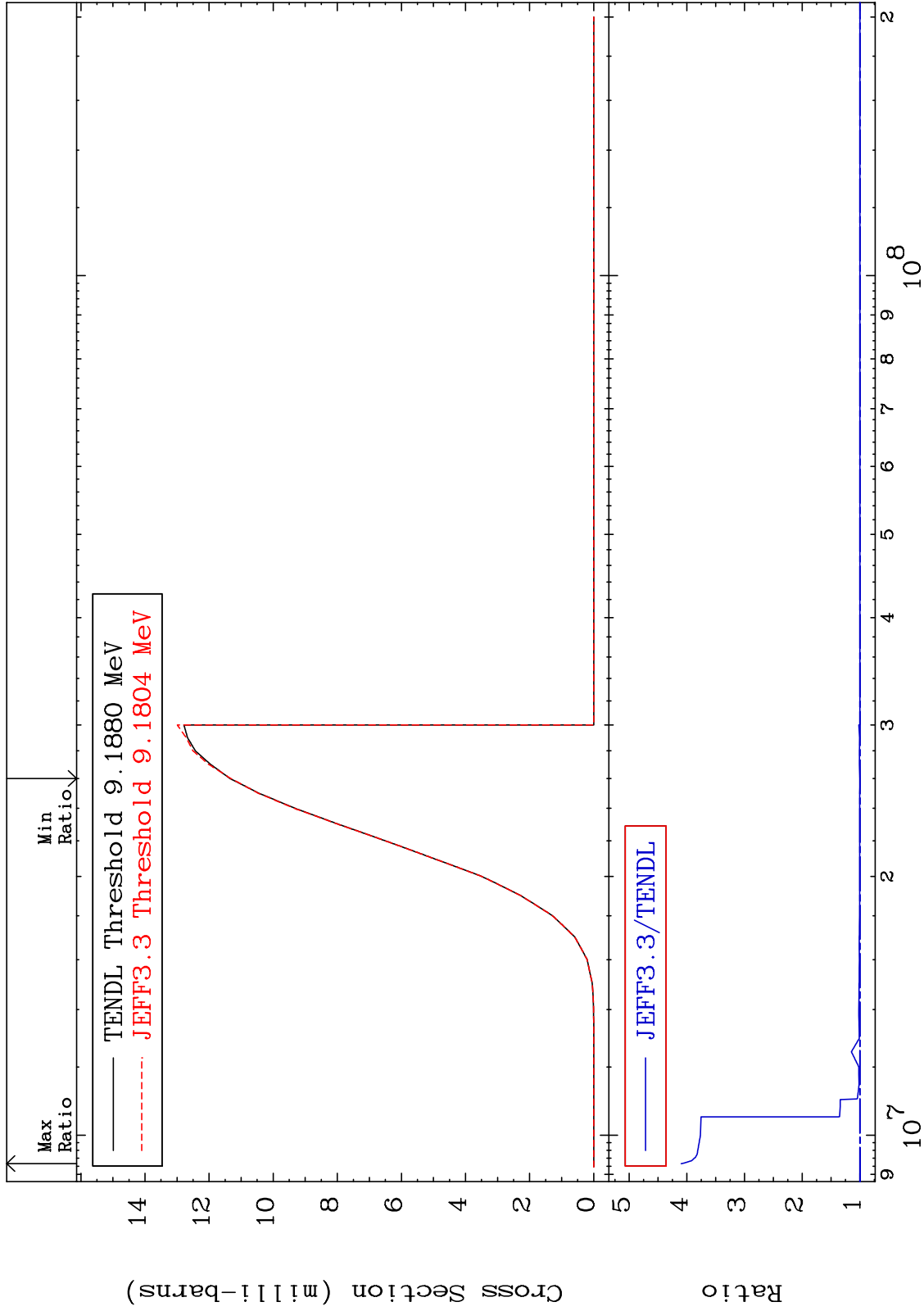
MAT 4455

(n, d)

44-Ru-106

Cross Section

-0.248 To 309.8 %



51

Incident Energy (eV)

44-Ru-106

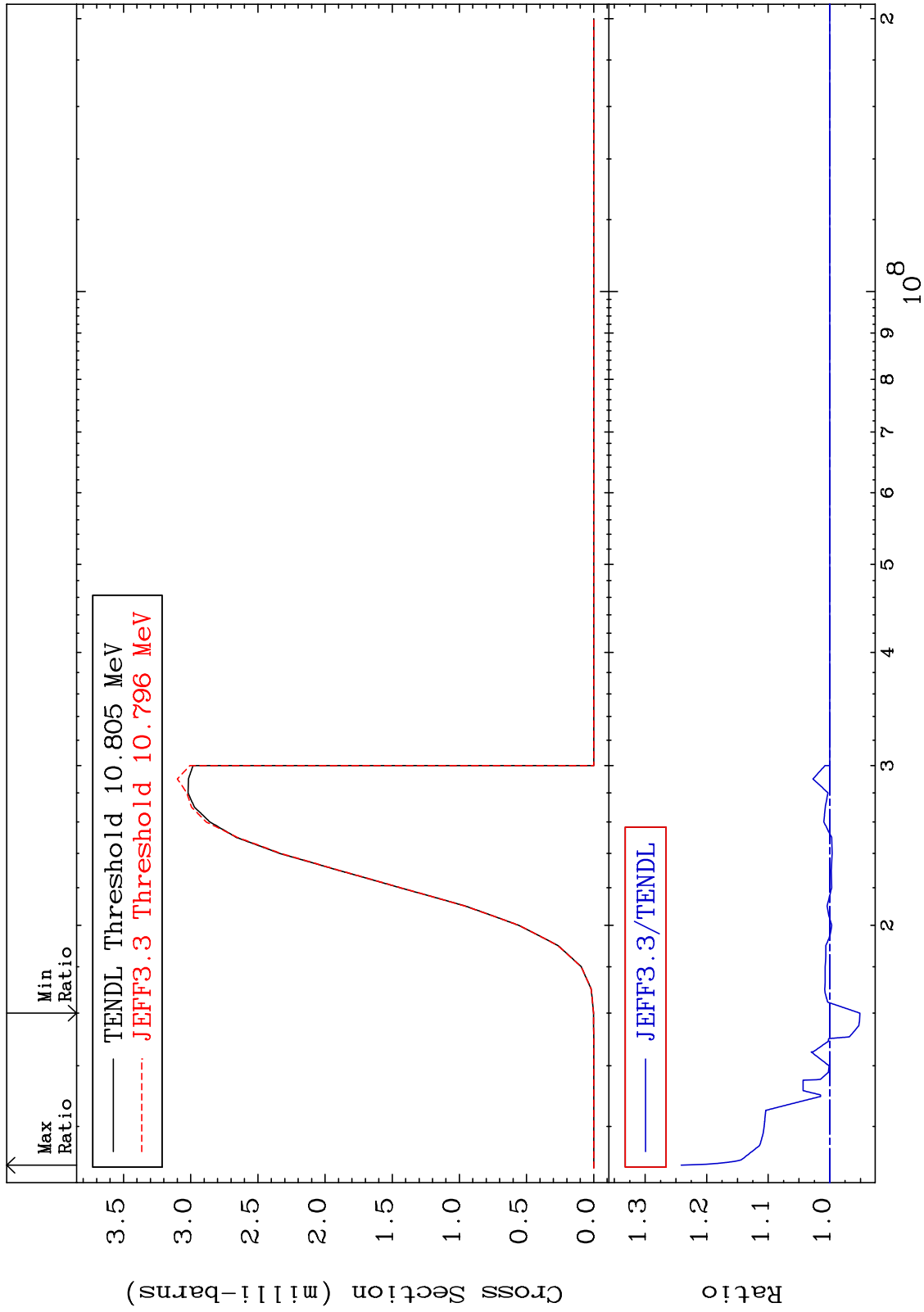
MAT 4455

(n, t)

44-Ru-106

Cross Section

-4.910 To 24.14 %



MAT 4455

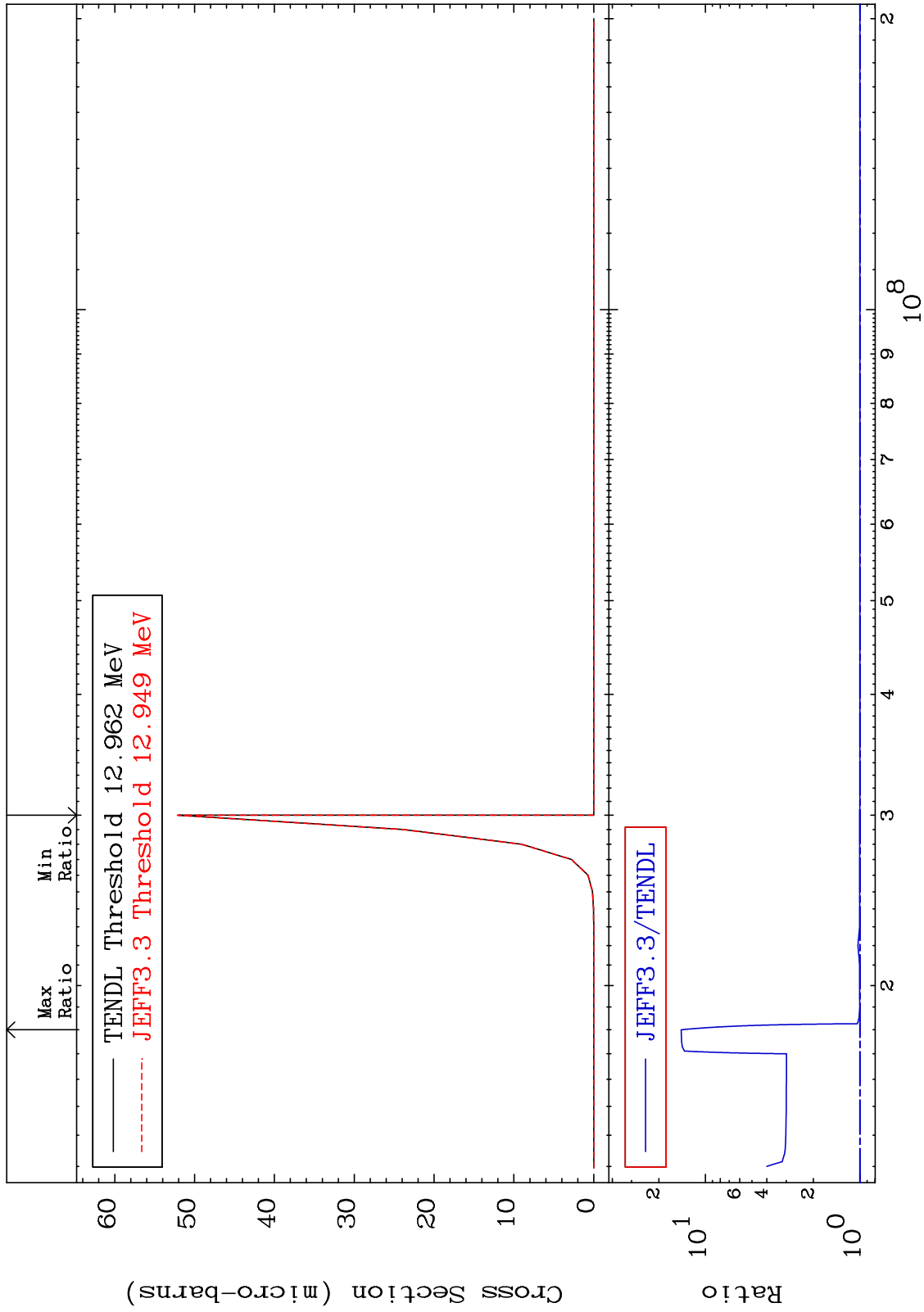
(n, He-3)

44-Ru-106

Cross Section

0.000

To 1332. %



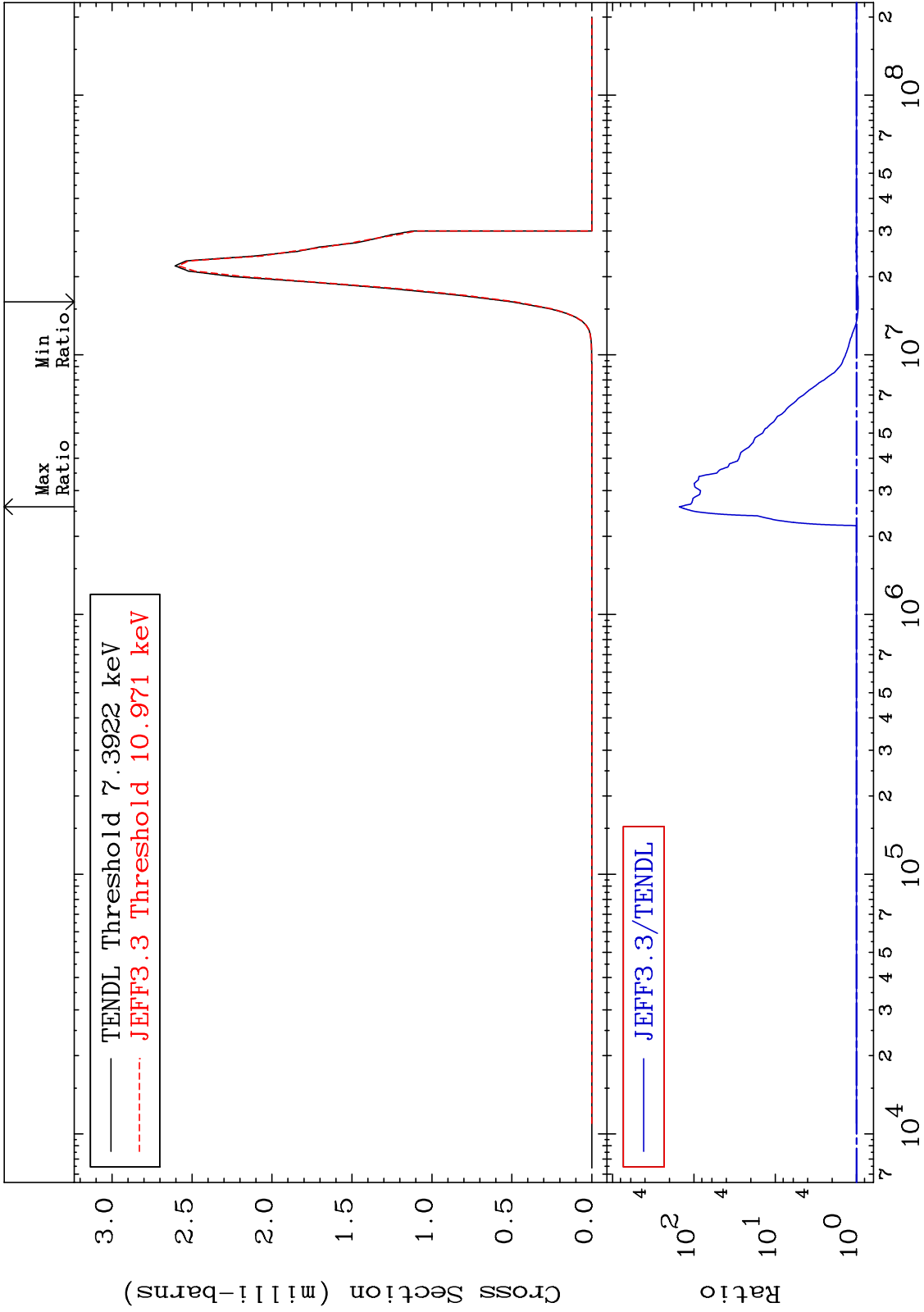
MAT 4455

(n, α)

44-Ru-106

-4.674 To 9999. %

Cross Section



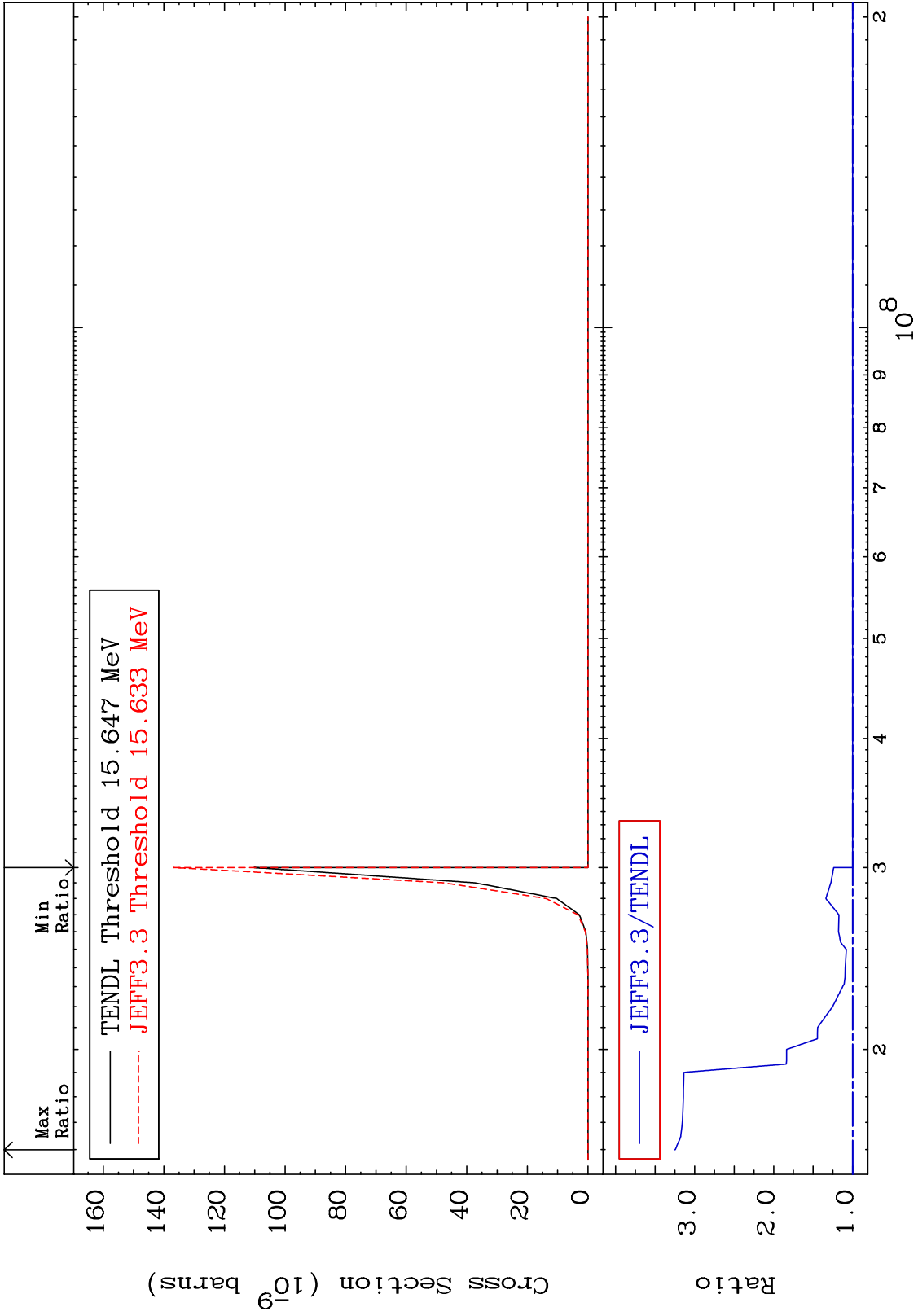
MAT 4455

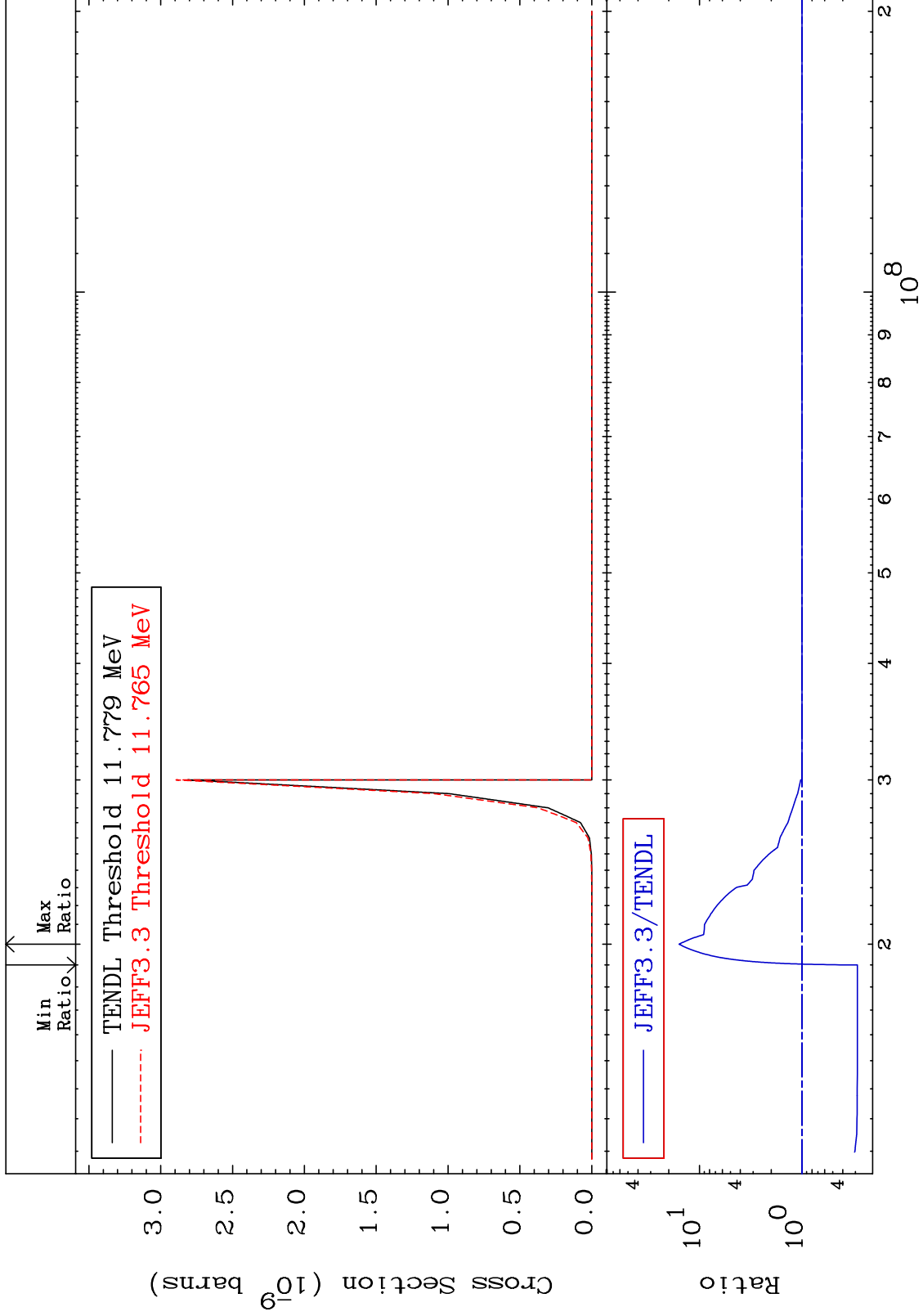
(n,2p)

44-Ru-106

Cross Section

0.000 To 224.9 %

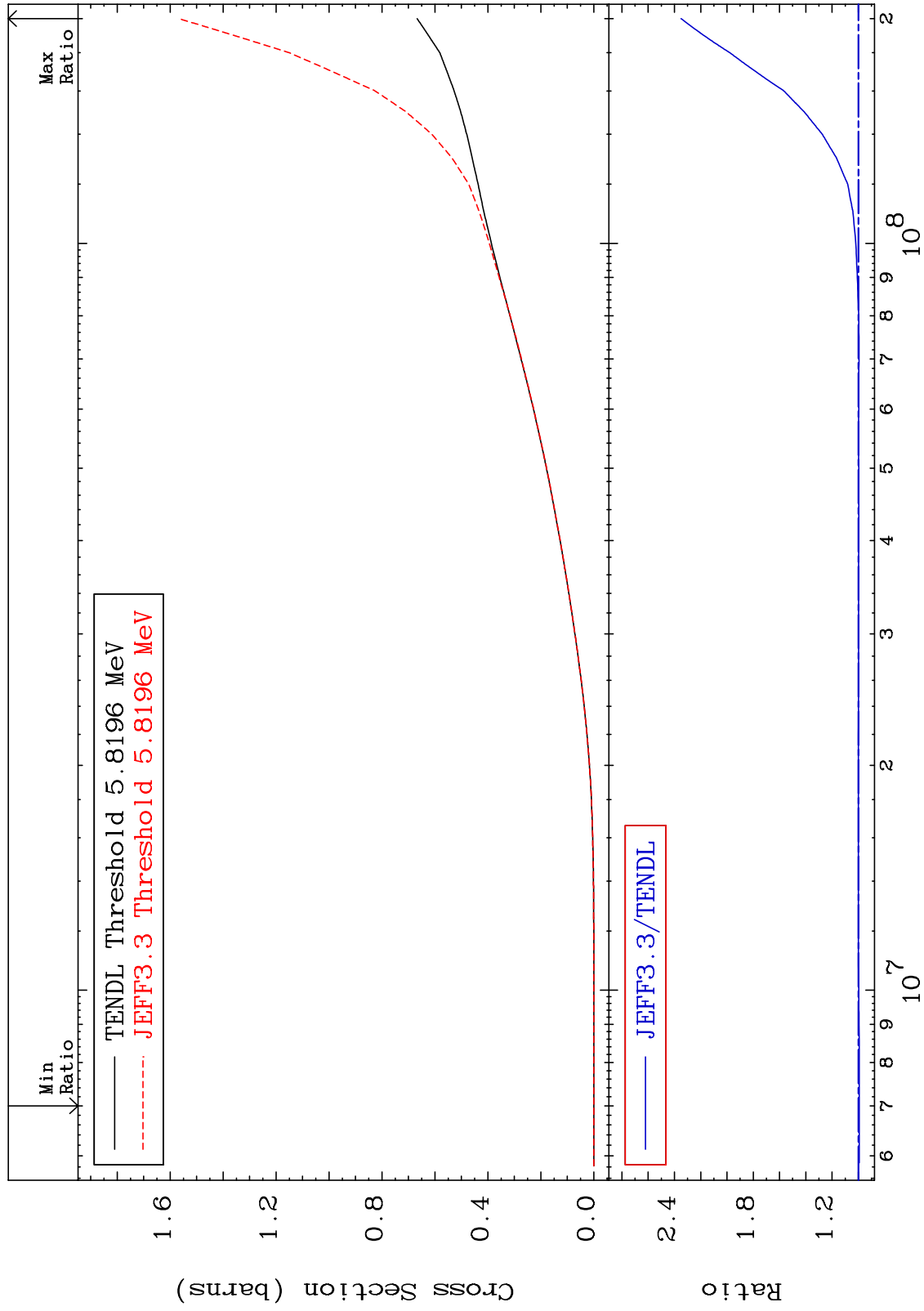




MAT 4455

Hydrogen Production
Cross Section

44-Ru-106
-0.727 To 135.0 %



57

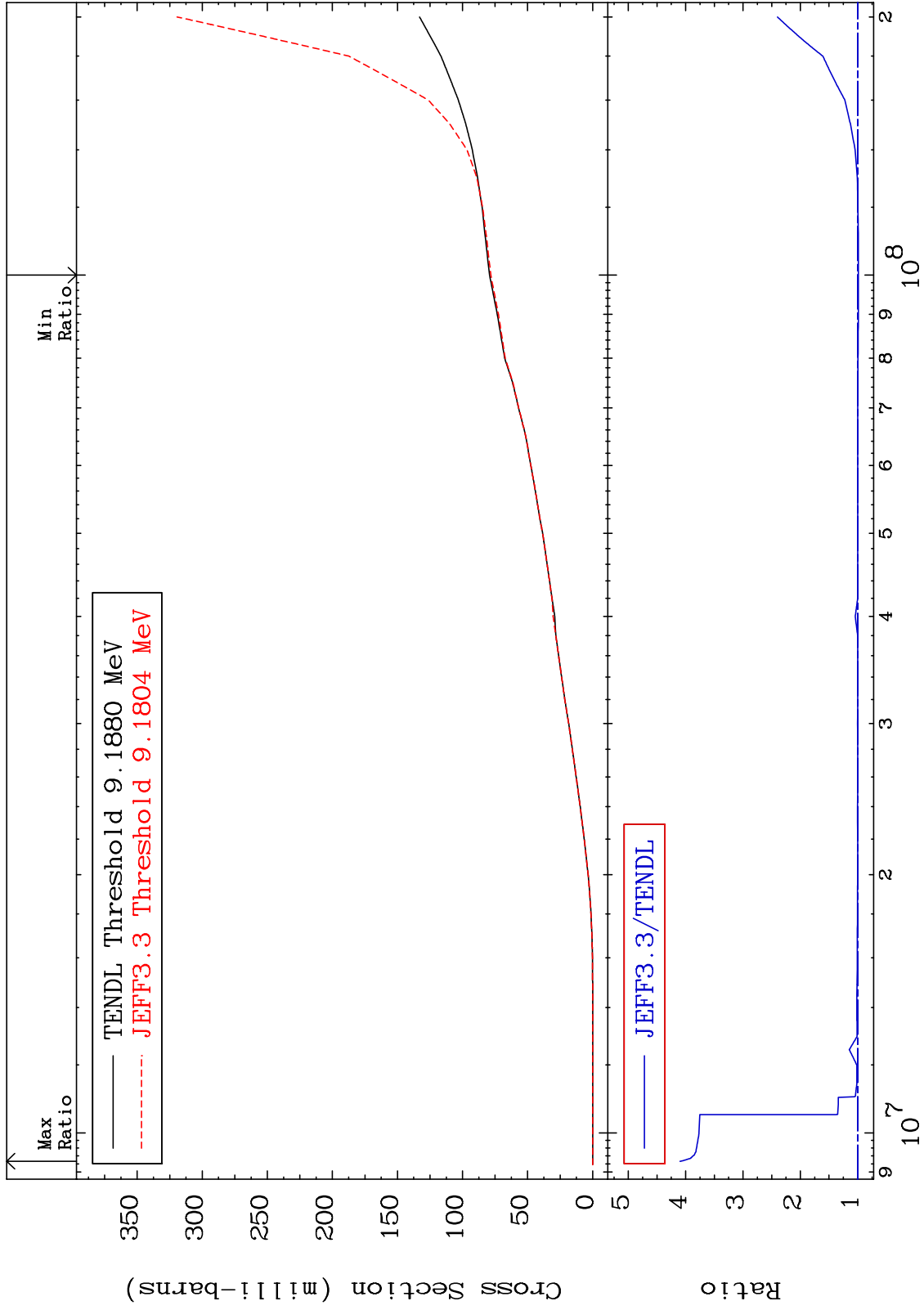
Incident Energy (eV)

44-Ru-106

MAT 4455

Deuterium Production
Cross Section

44-Ru-106
-1.271 To 309.8 %



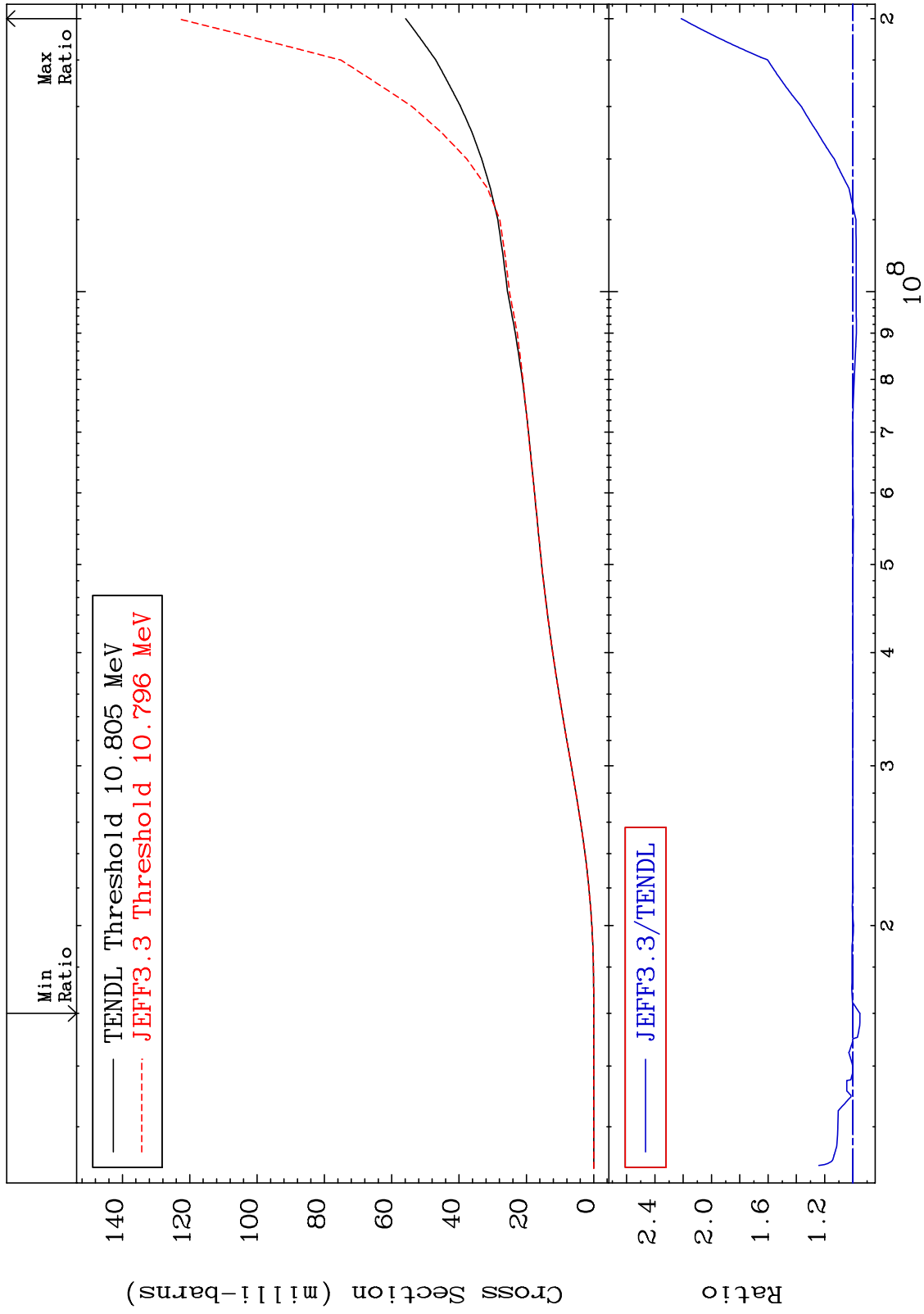
58

44-Ru-106

MAT 4455

Tritium Production
Cross Section

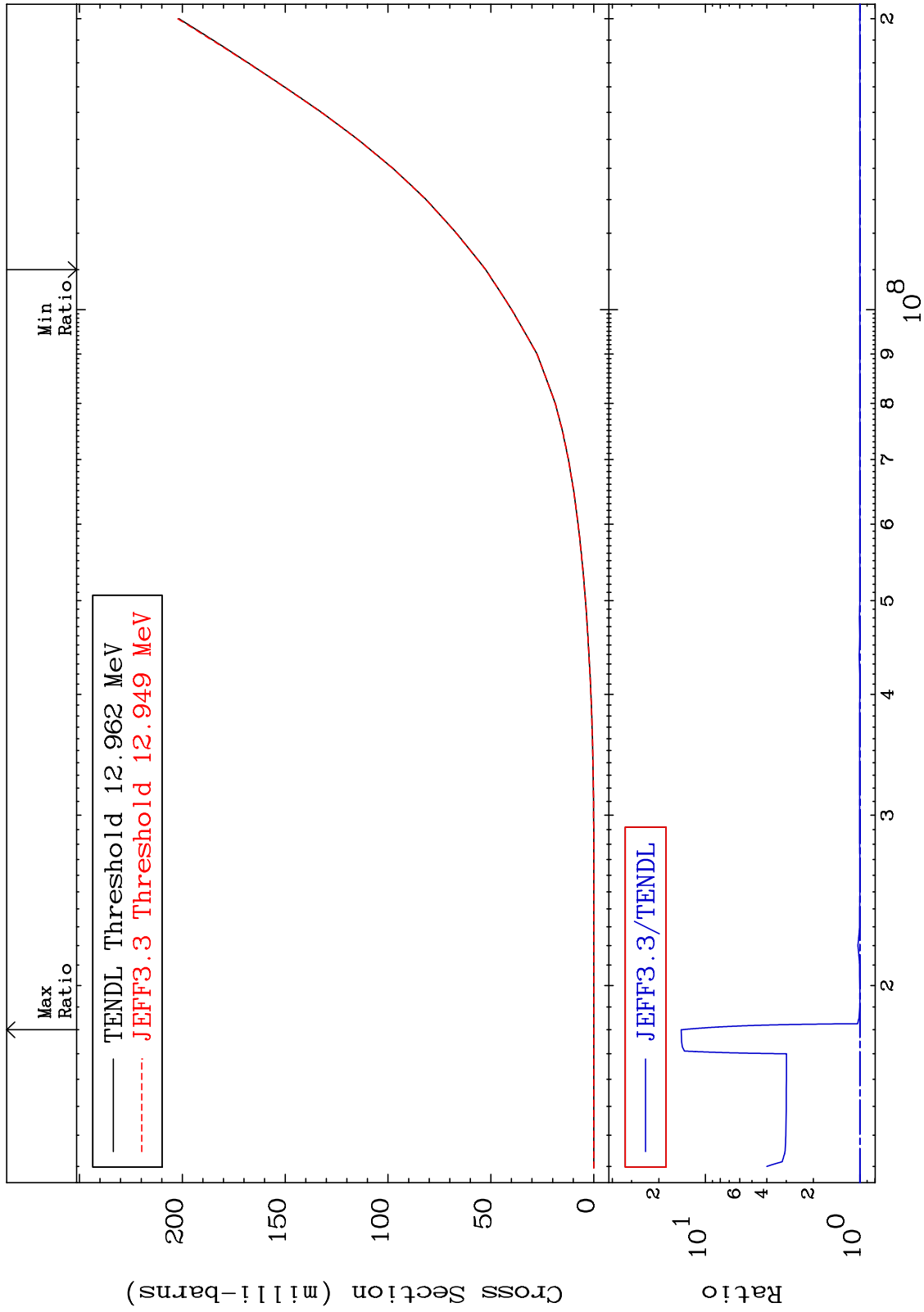
44-Ru-106
-4.910 To 121.4 %



MAT 4455

He-3 Production
Cross Section

44-Ru-106
0.073 To 1332. %



60

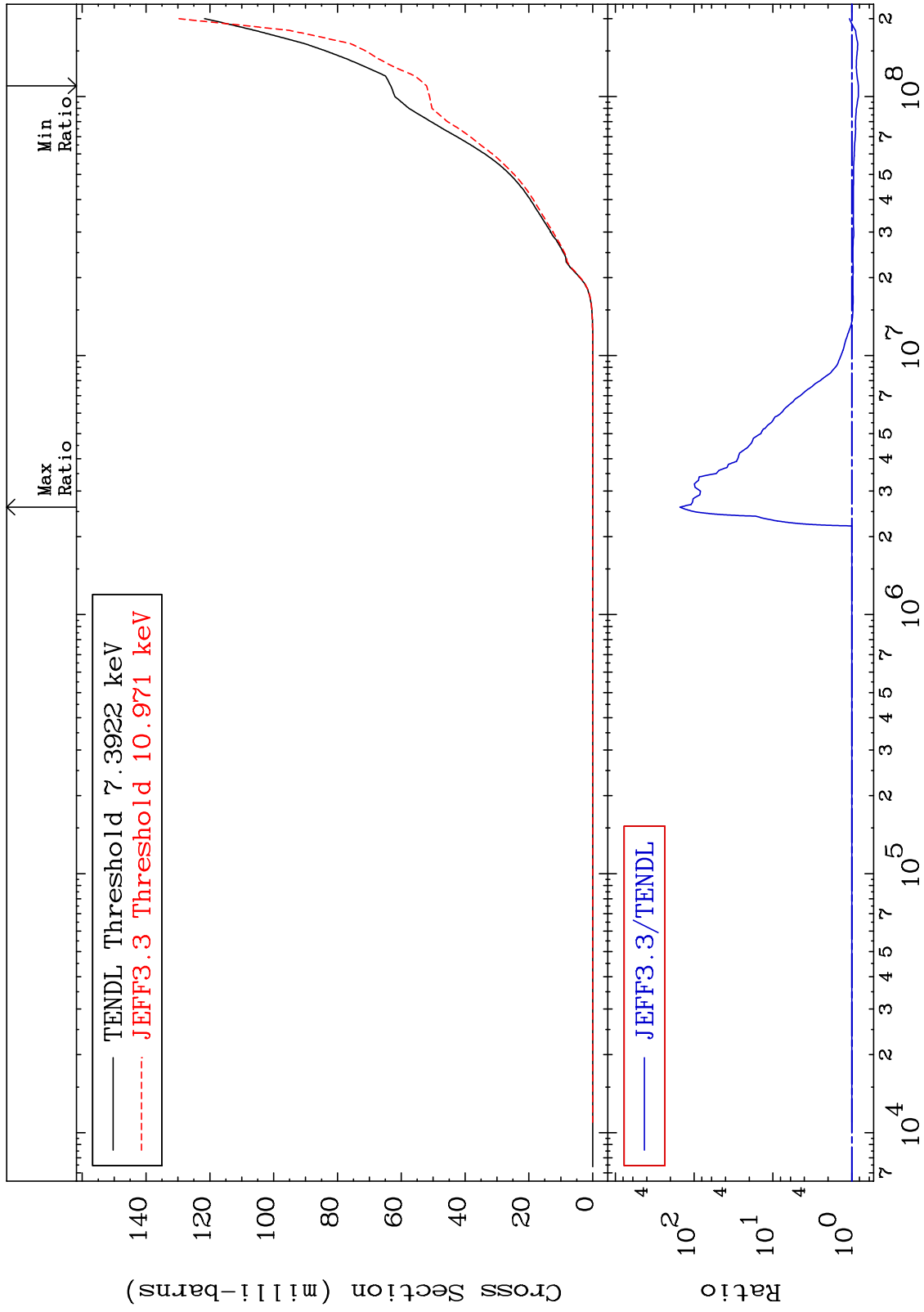
Incident Energy (eV)

44-Ru-106

MAT 4455

He-4 Production
Cross Section

44-Ru-106
-17.70 To 9999. %



61

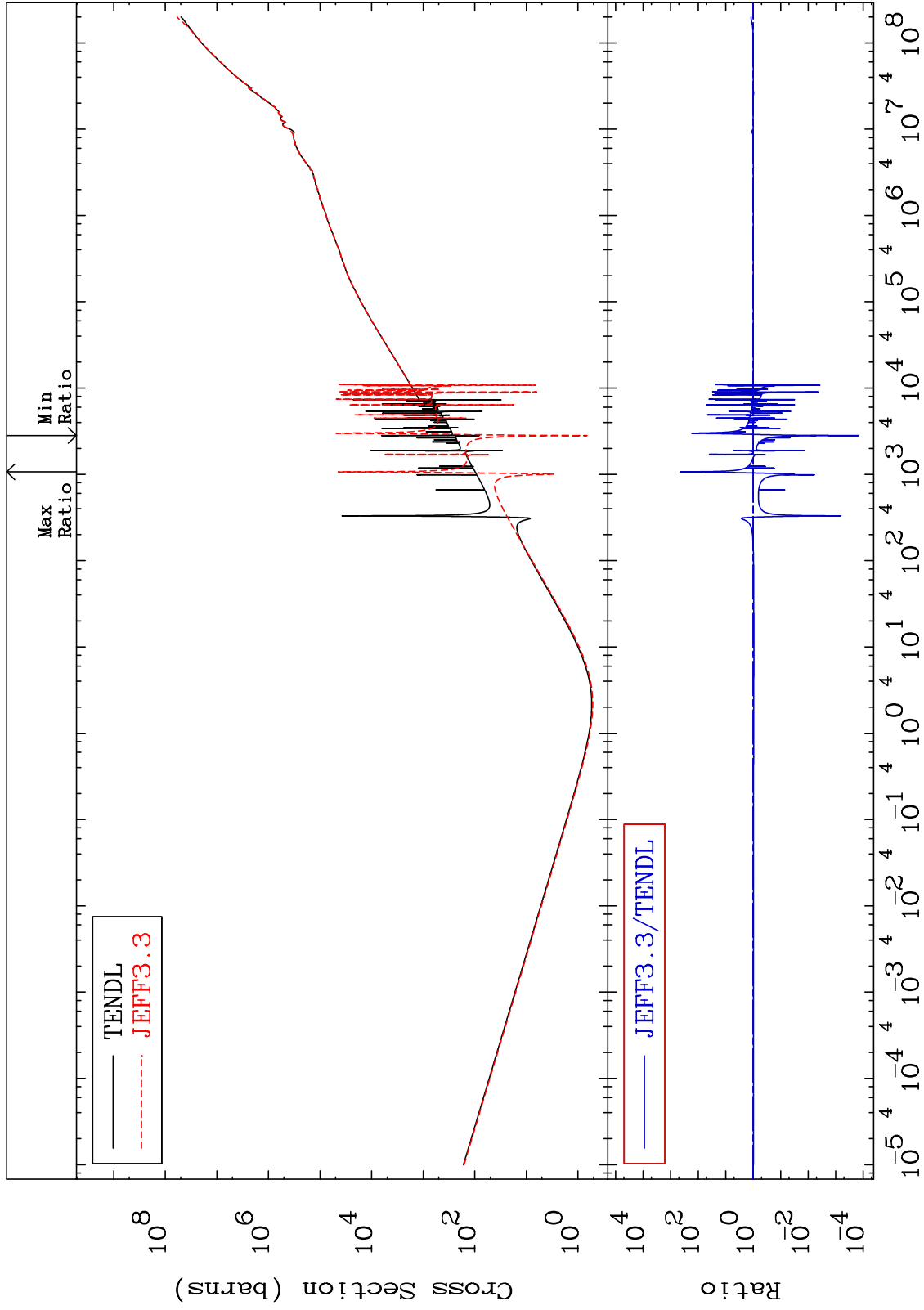
Incident Energy (eV)

44-Ru-106

MAT 4455

Kerma total (eV-barns)
Cross Section

44-Ru-106
-99.99 To 9999. %



62

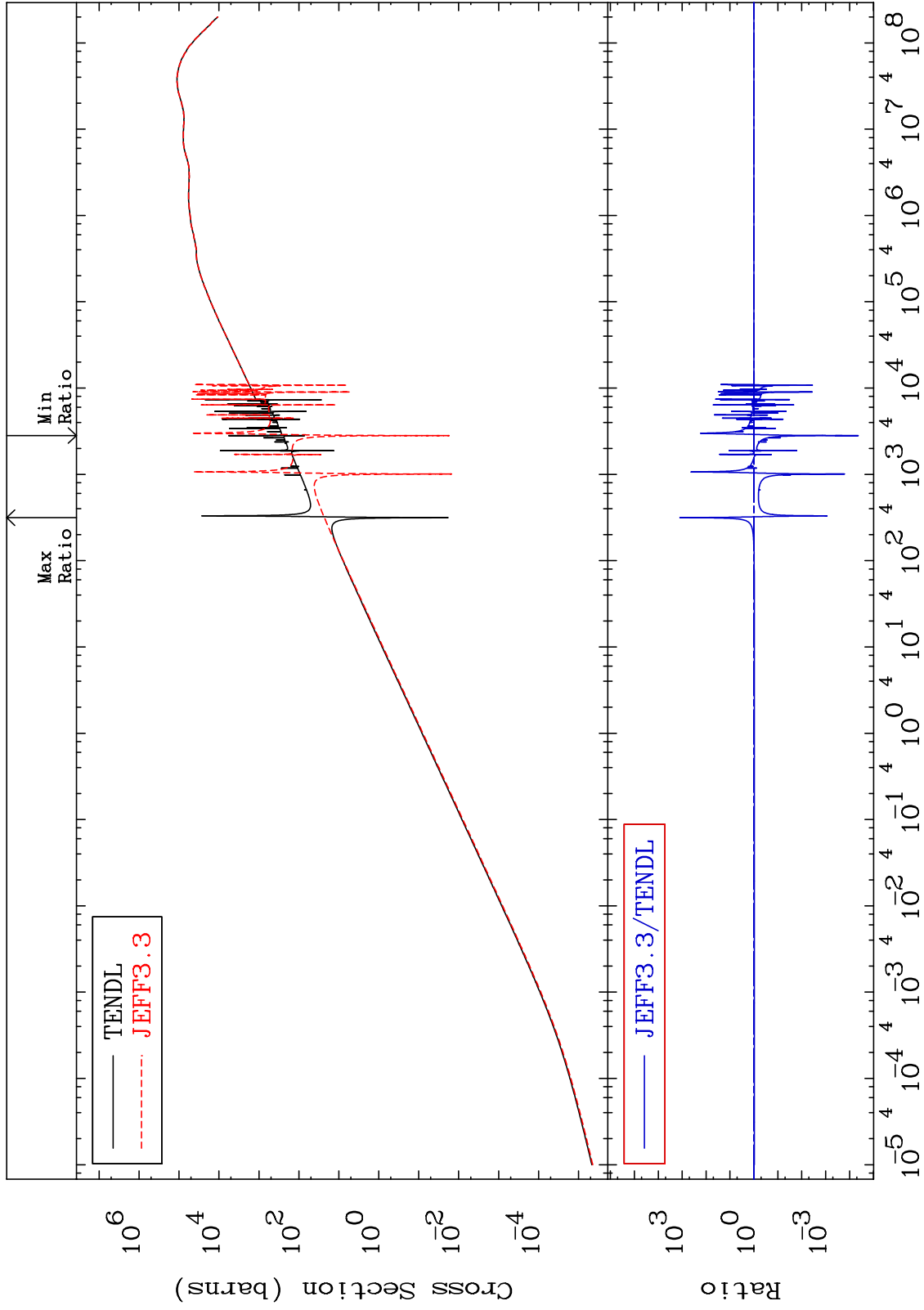
Incident Energy (eV)

44-Ru-106

MAT 4455

Kerma elastic
Cross Section

44-Ru-106
-100.0 To 9999. %



63

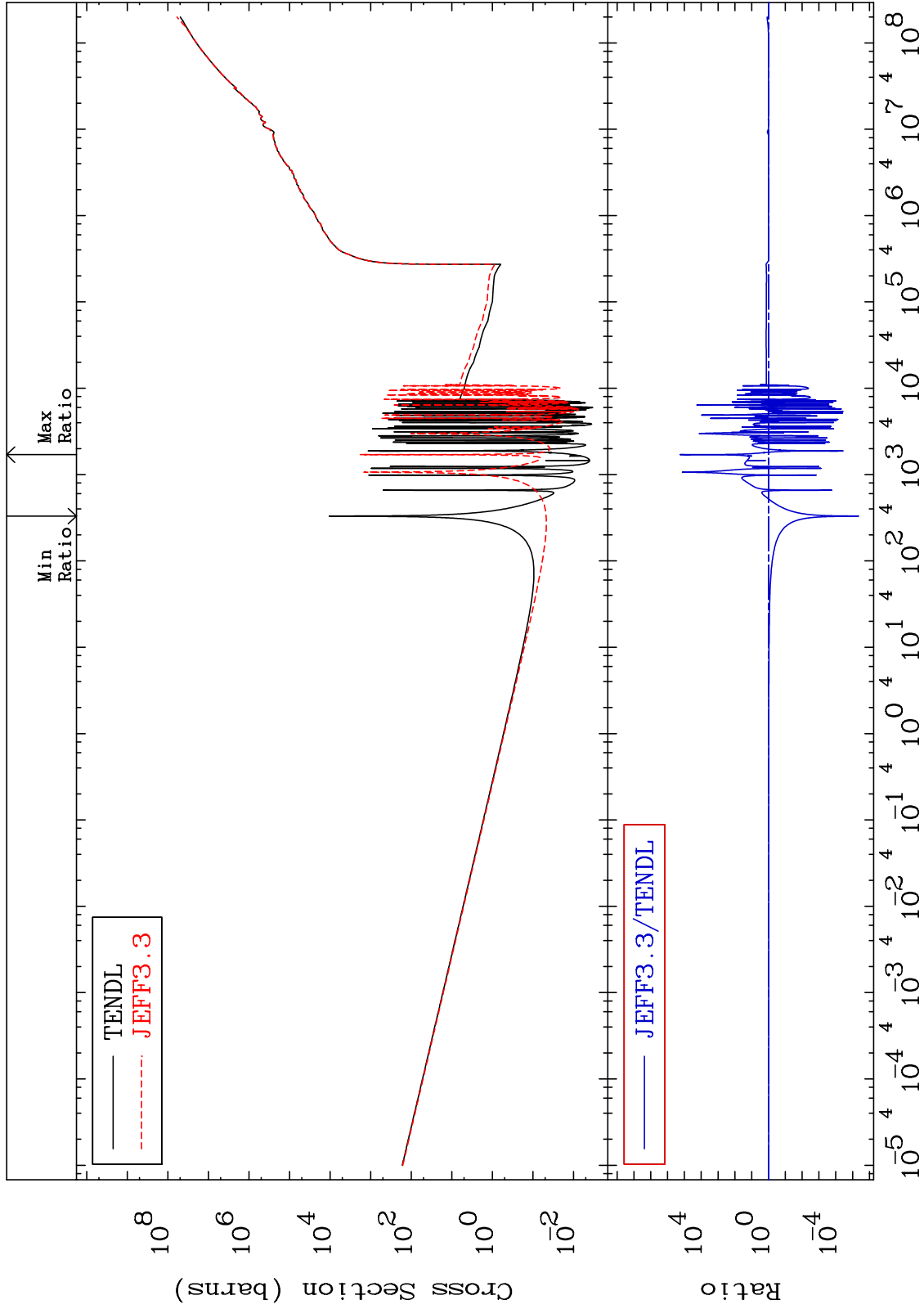
Incident Energy (eV)

44-Ru-106

MAT 4455

Kerma non-elastic (all but mt2)
Cross Section

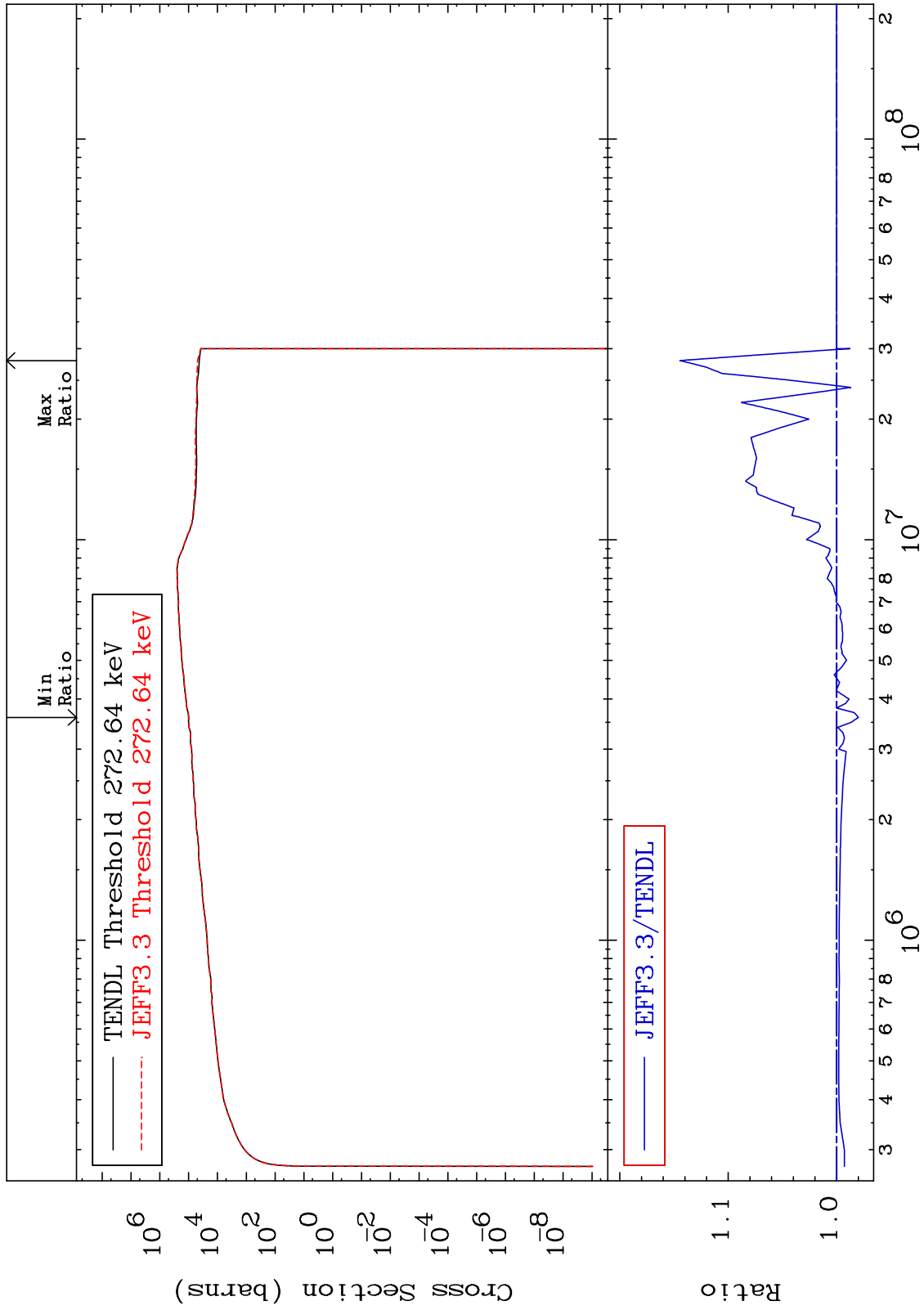
44-Ru-106
-100.0 To 9999. %



MAT 4455

Kerma inelastic (mt51-91)
Cross Section

44-Ru-106
-2.010 To 14.45 %



65

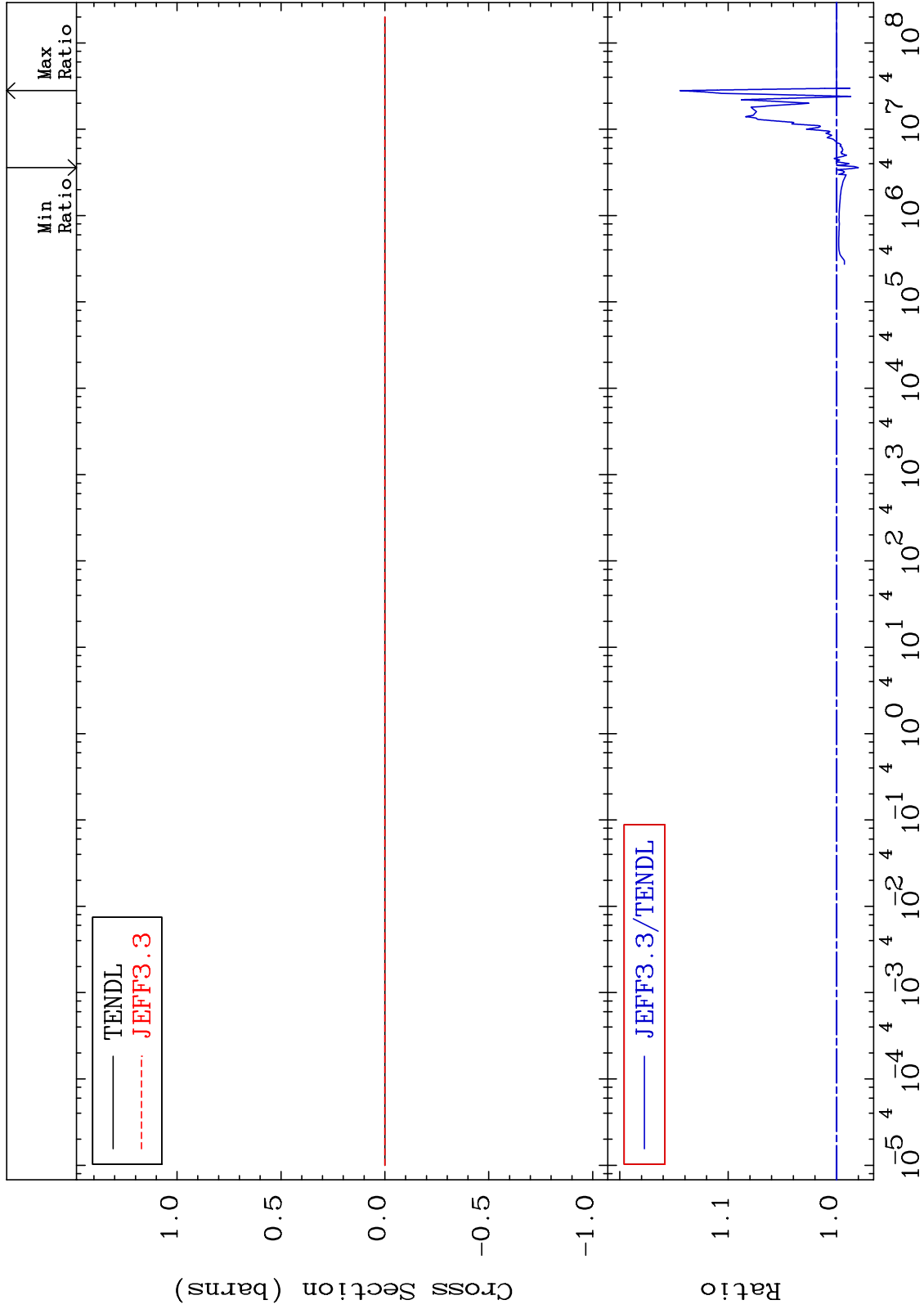
Incident Energy (eV)

44-Ru-106

MAT 4455

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

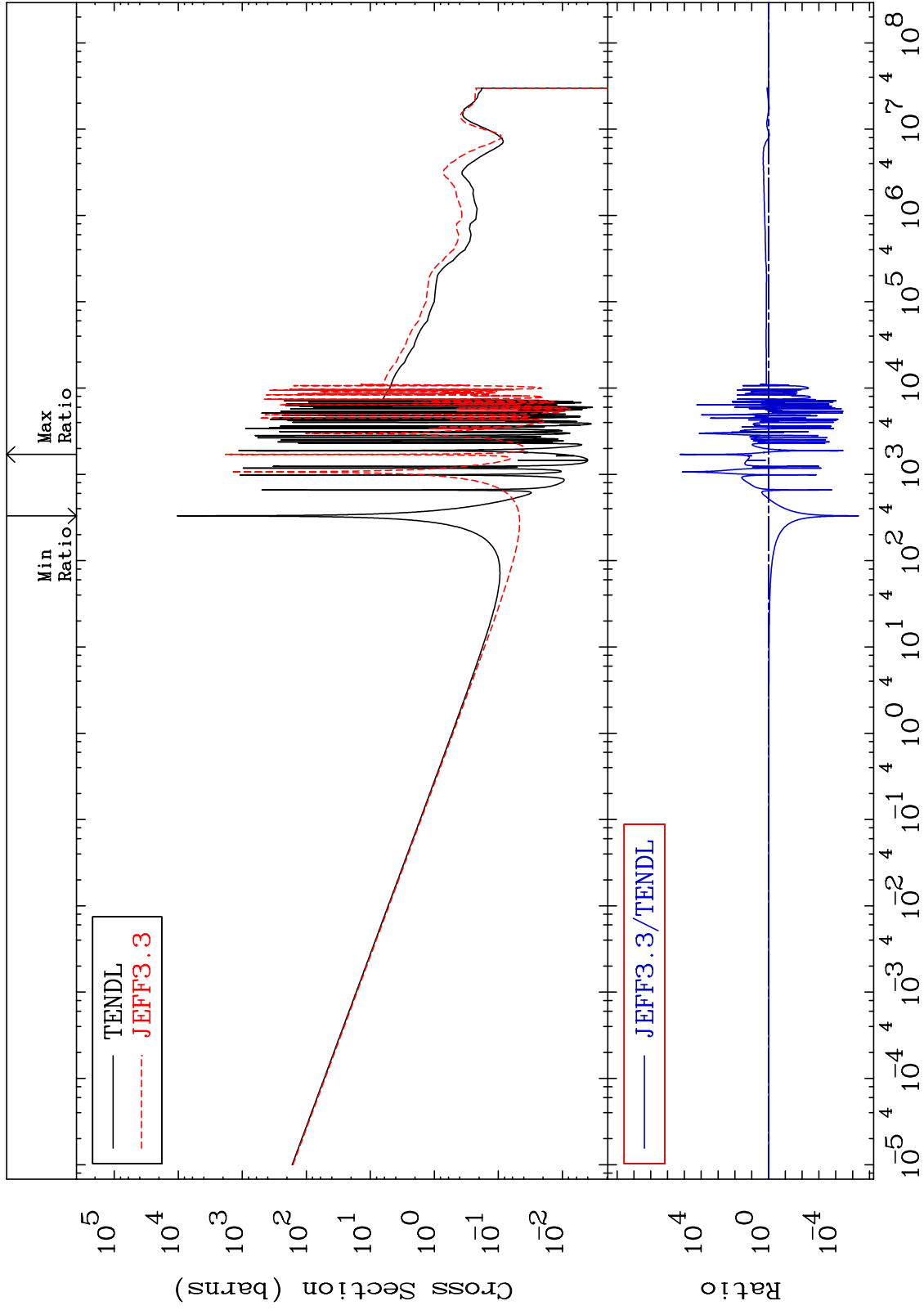
44-Ru-106
-2.010 To 14.45 %



MAT 4455

Kerma capture (mt102)
Cross Section

44-Ru-106
-100.0 To 9999. %



67

Incident Energy (eV)

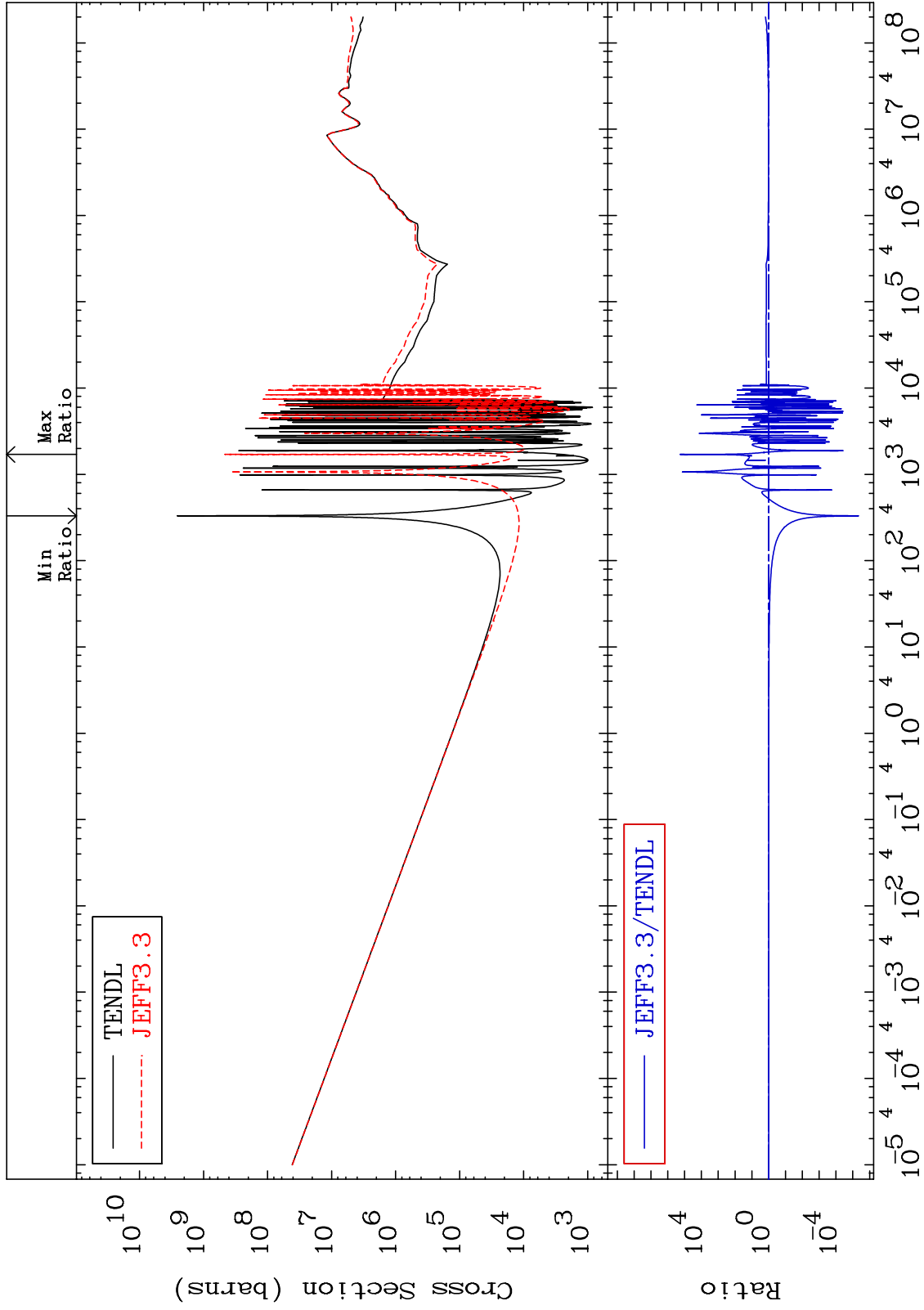
44-Ru-106

MAT 4455

Total photon (eV-barns)
Cross Section

44-Ru-106

-100.0 To 9999. %



68

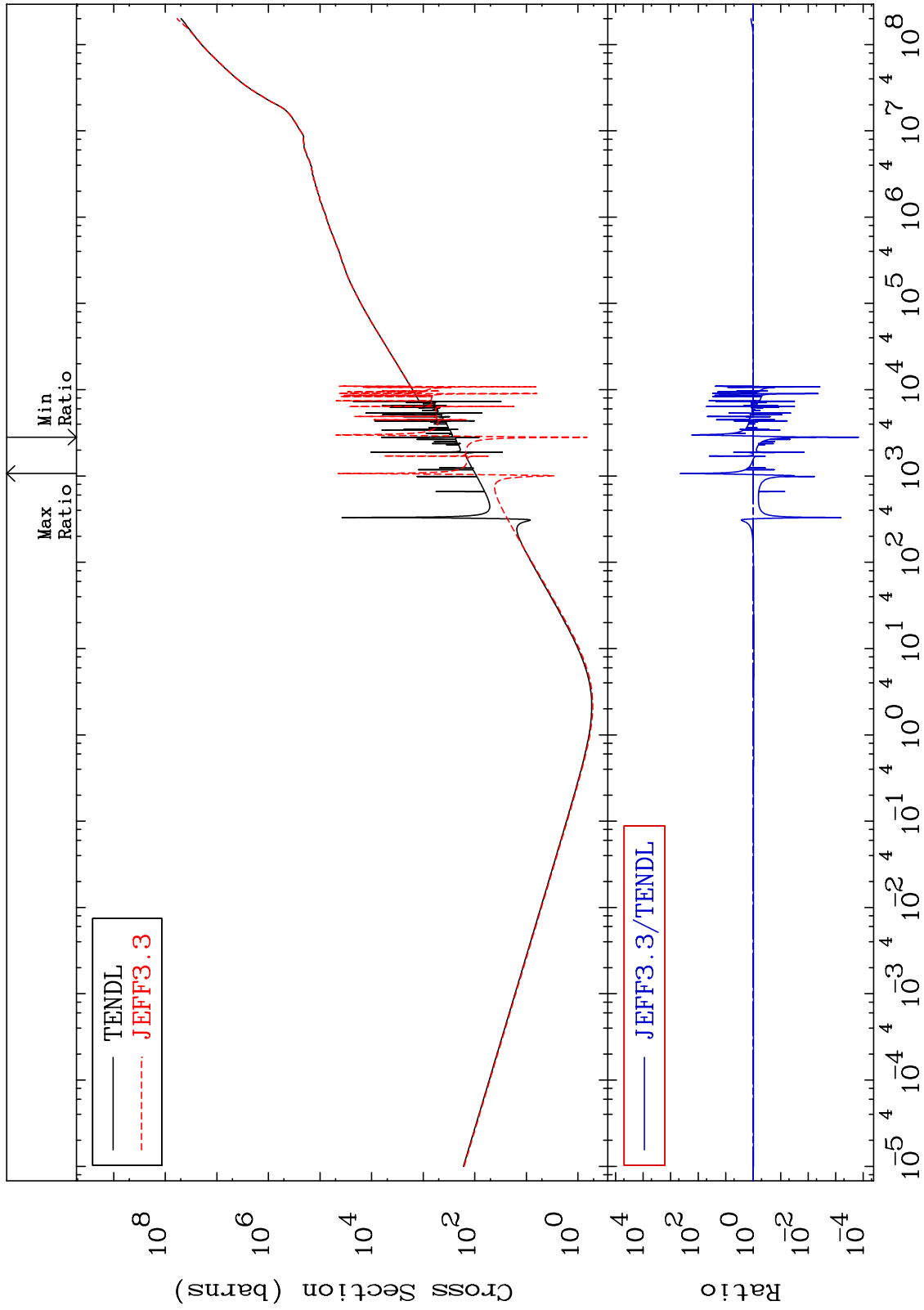
Incident Energy (eV)

44-Ru-106

MAT 4455

Total kinematic kerma (high limit)
Cross Section

44-Ru-106
-99.99 To 9999. %



69

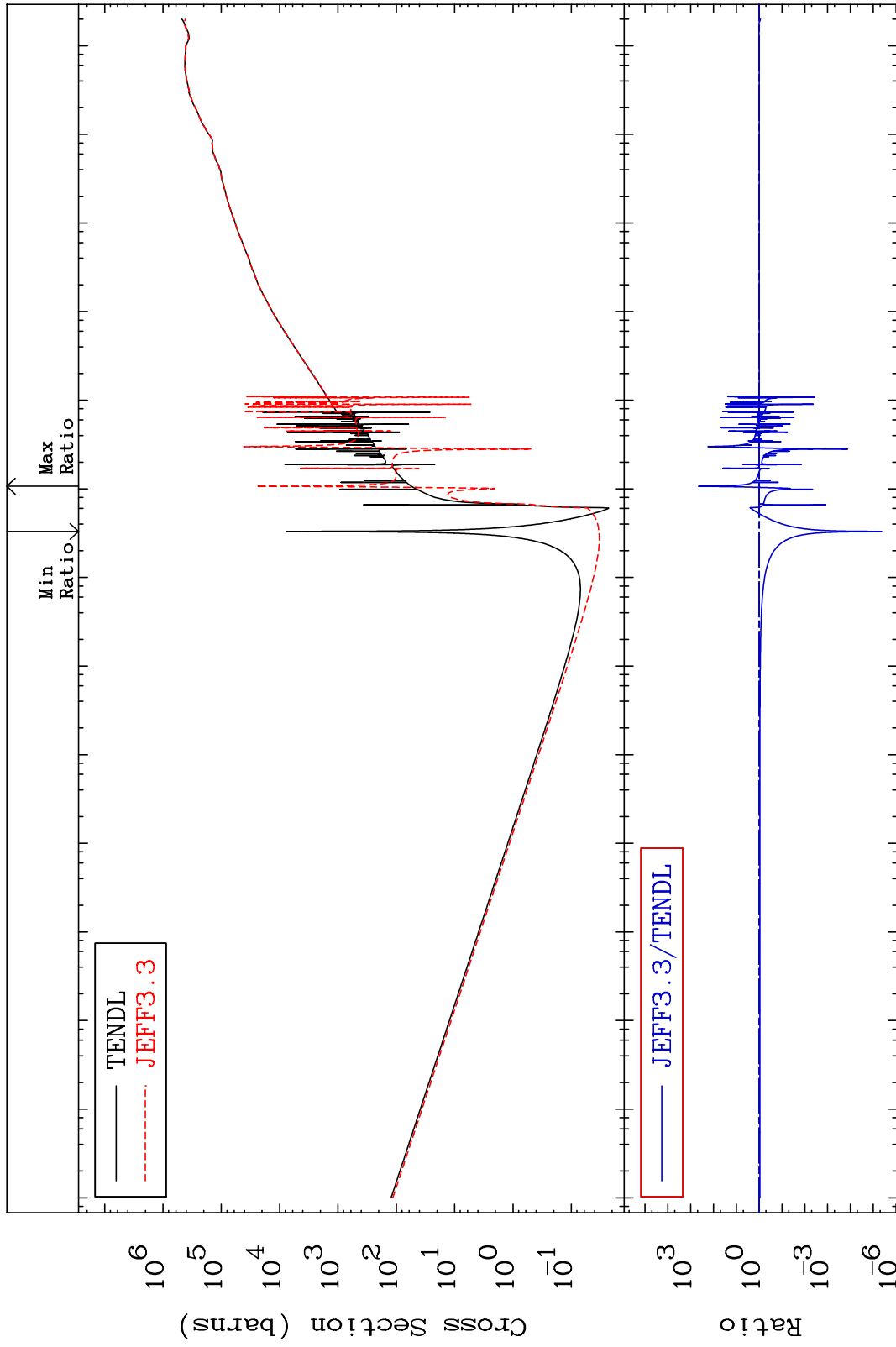
Incident Energy (eV)

44-Ru-106

MAT 4455

Dpa total (eV-barns)
Cross Section

44-Ru-106
-100.0 To 9999. %



70

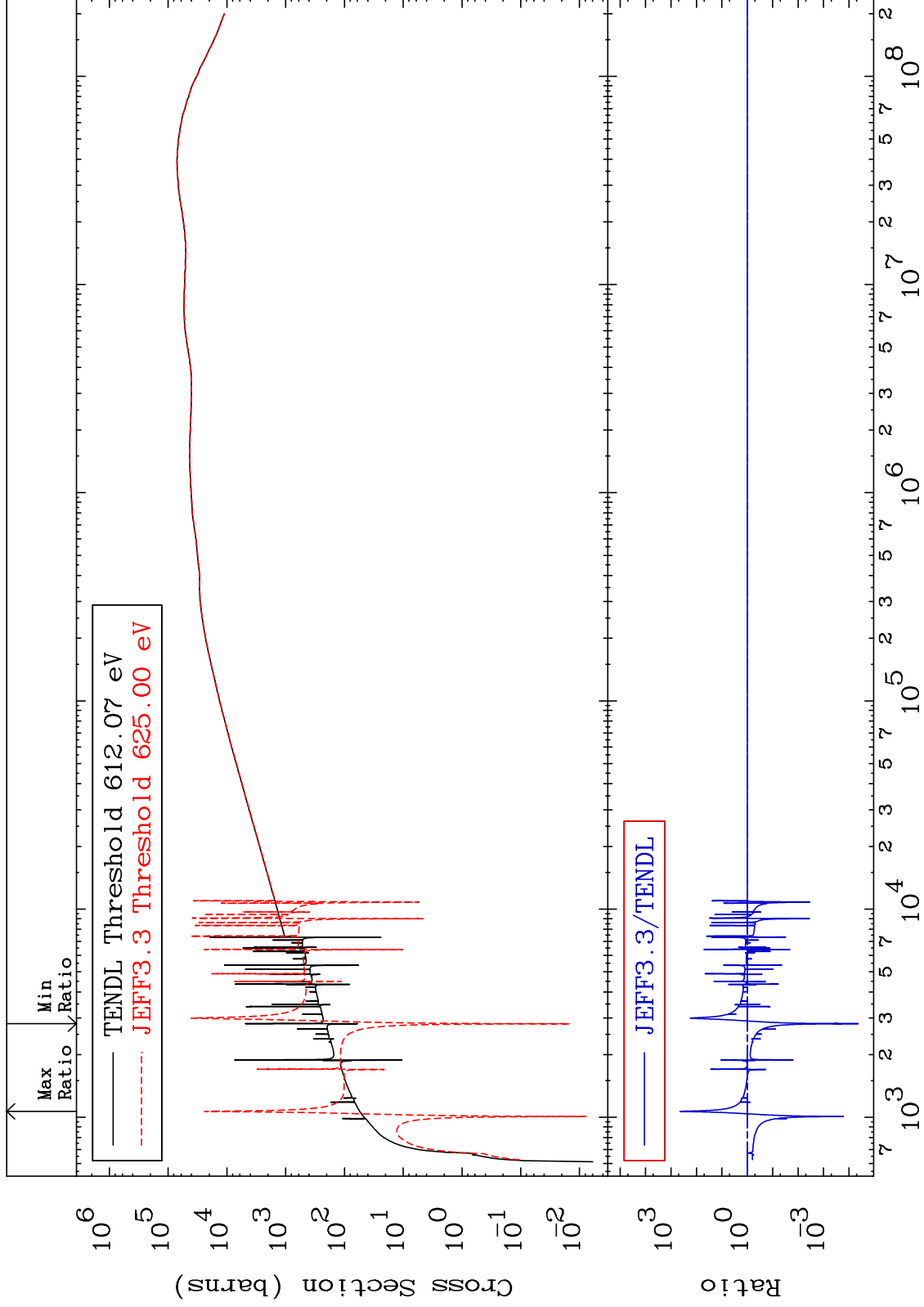
Incident Energy (eV)

44-Ru-106

MAT 4455

Dpa elastic (mt2)
Cross Section

44-Ru-106
-100.0 To 9999. %



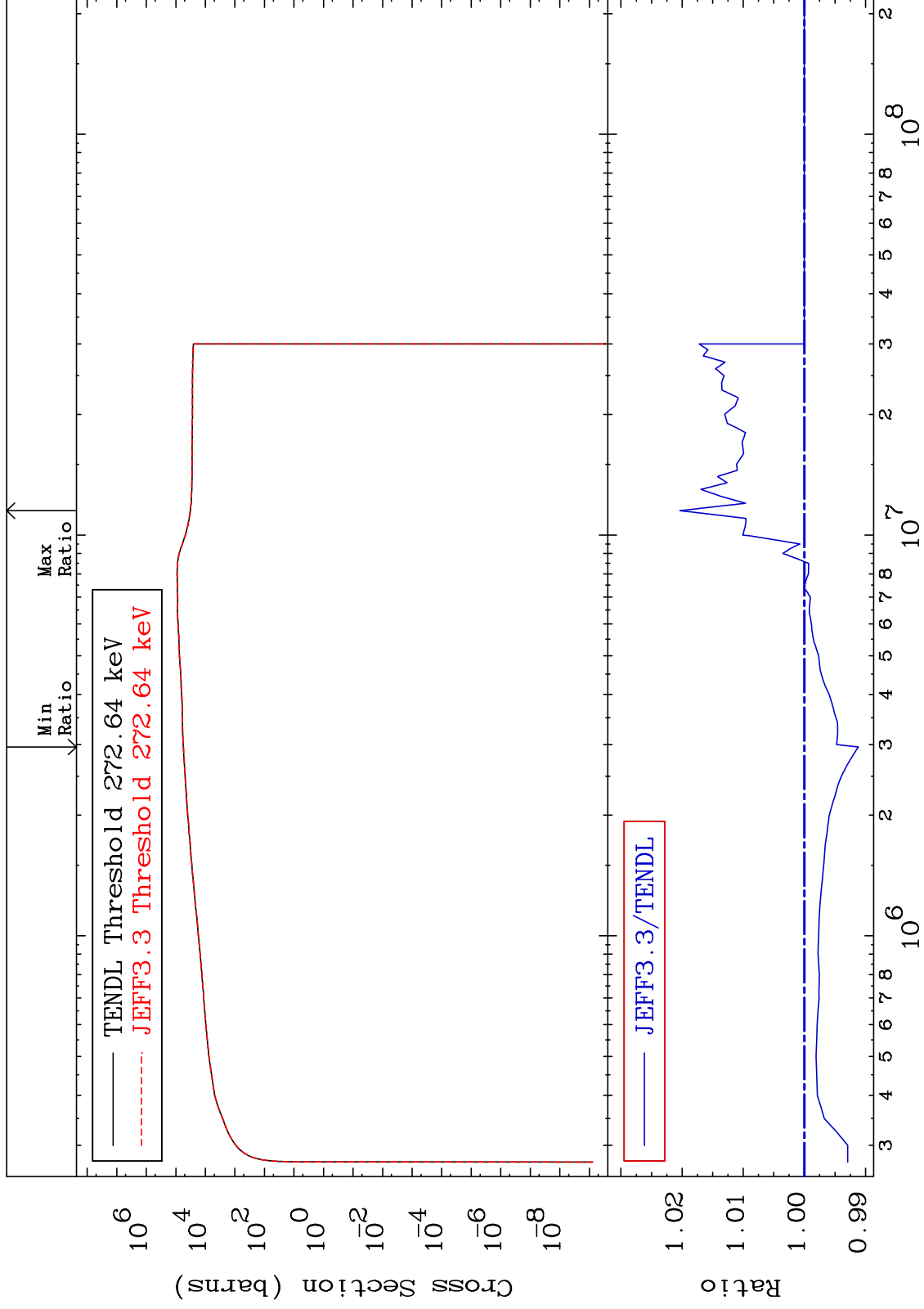
MAT 4455

Dpa inelastic (mt51-91)

44-Ru-106

-0.884 To 2.034 %

Cross Section



72

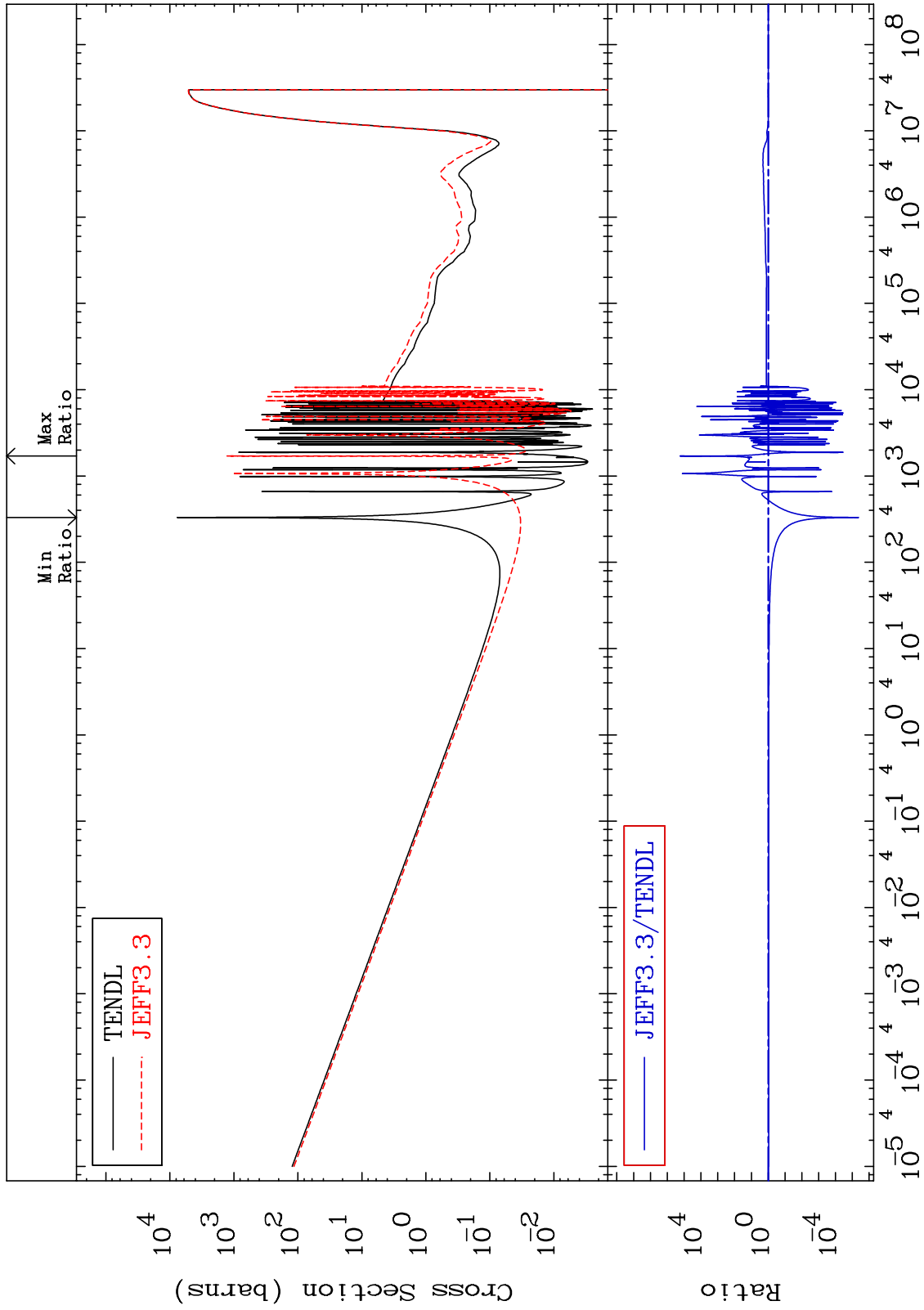
Incident Energy (eV)

44-Ru-106

MAT 4455

Dpa disappearance (mt102 -120)
Cross Section

44-Ru-106
-100.0 To 9999. %



73

Incident Energy (eV)

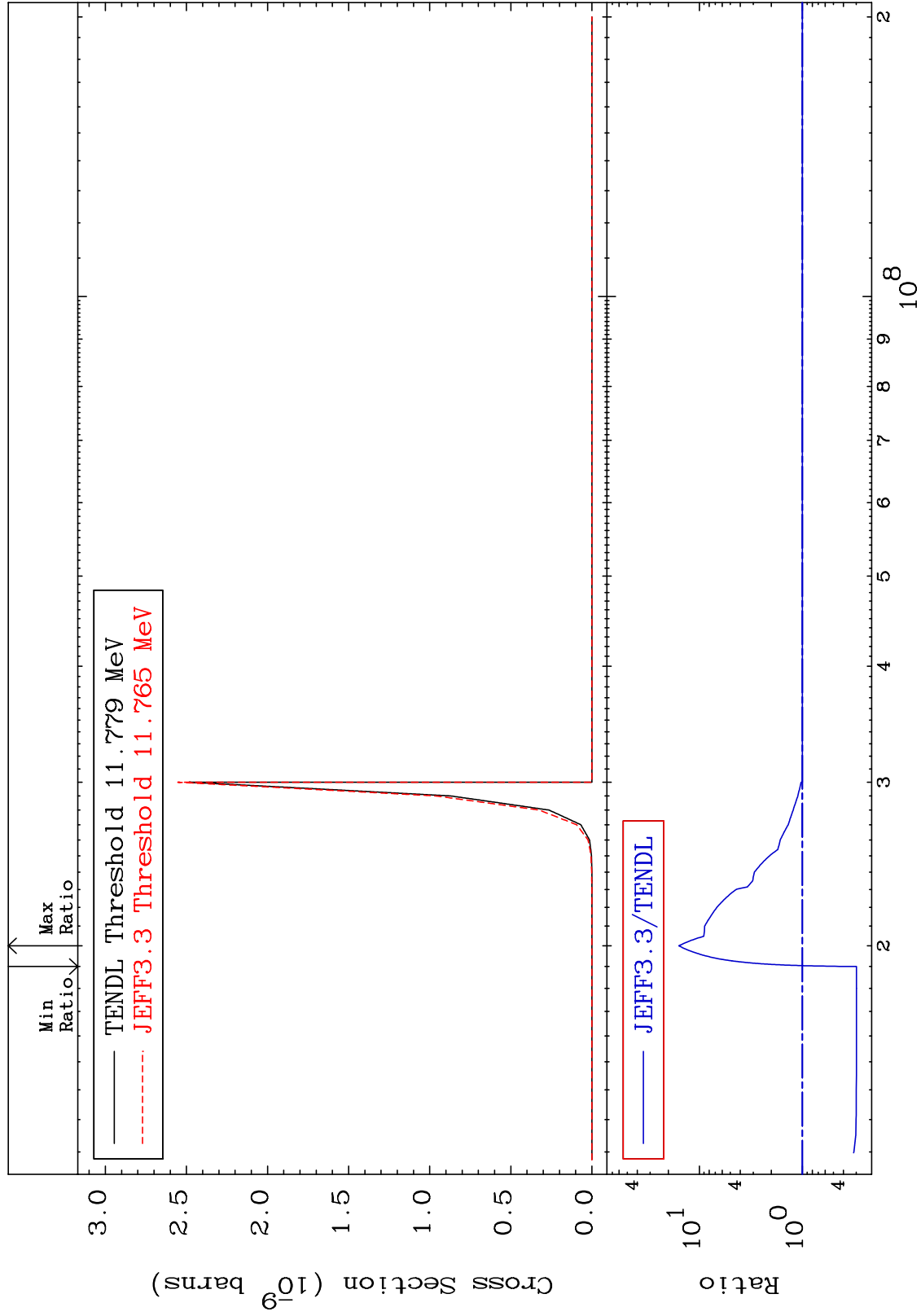
44-Ru-106

MAT 4455

(n, p) α : 41-Nb-102g

44-Ru-106

Radionuclide Production Cross Section -70.17 To 1480. %

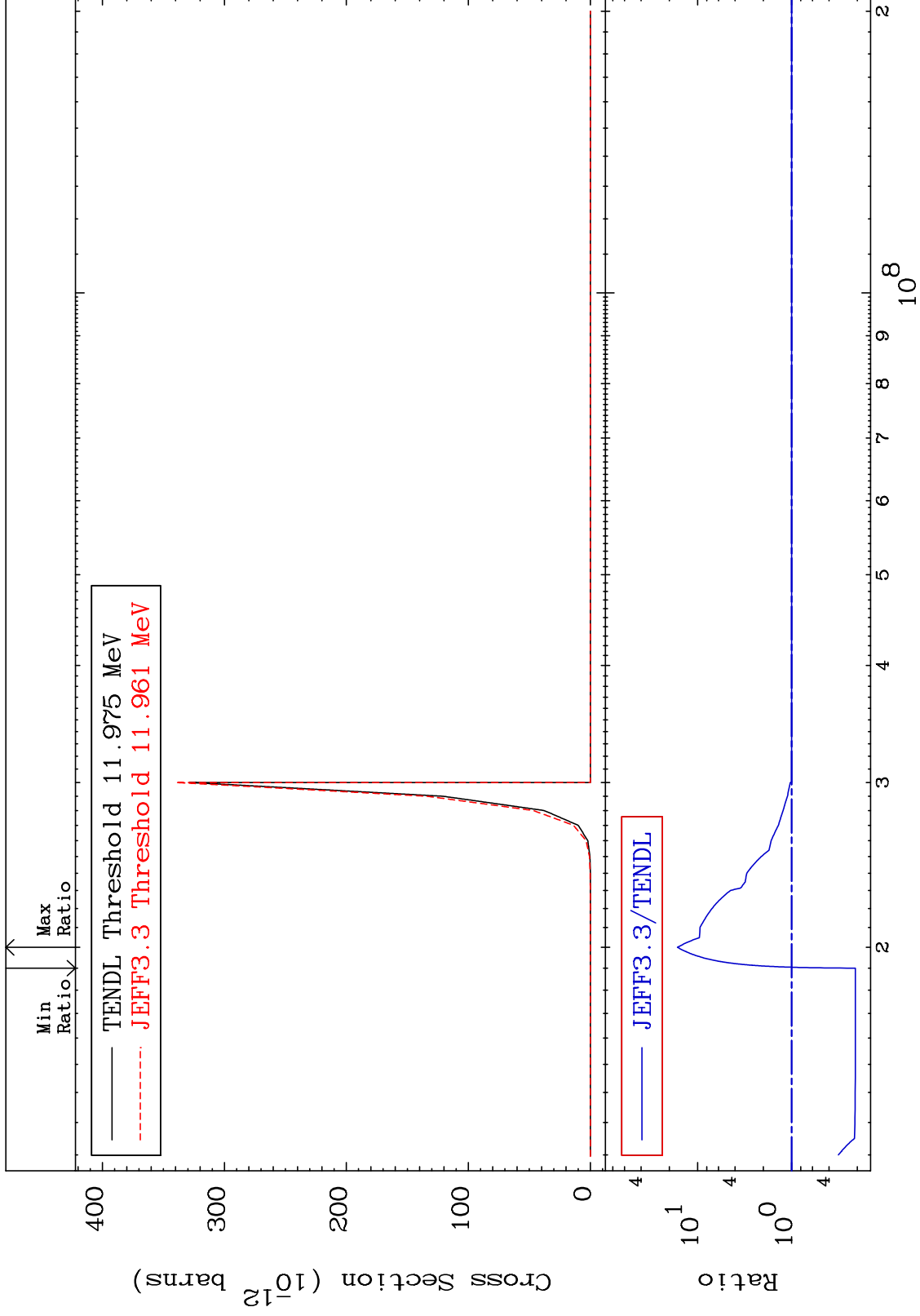


MAT 4455

(n, p) α :41-Nb-102m1

44-Ru-106

Radionuclide Production Cross Section -79.04 To 1540. %



75

Incident Energy (eV)

44-Ru-106