

Program Complot
(Version 2021-1)

by

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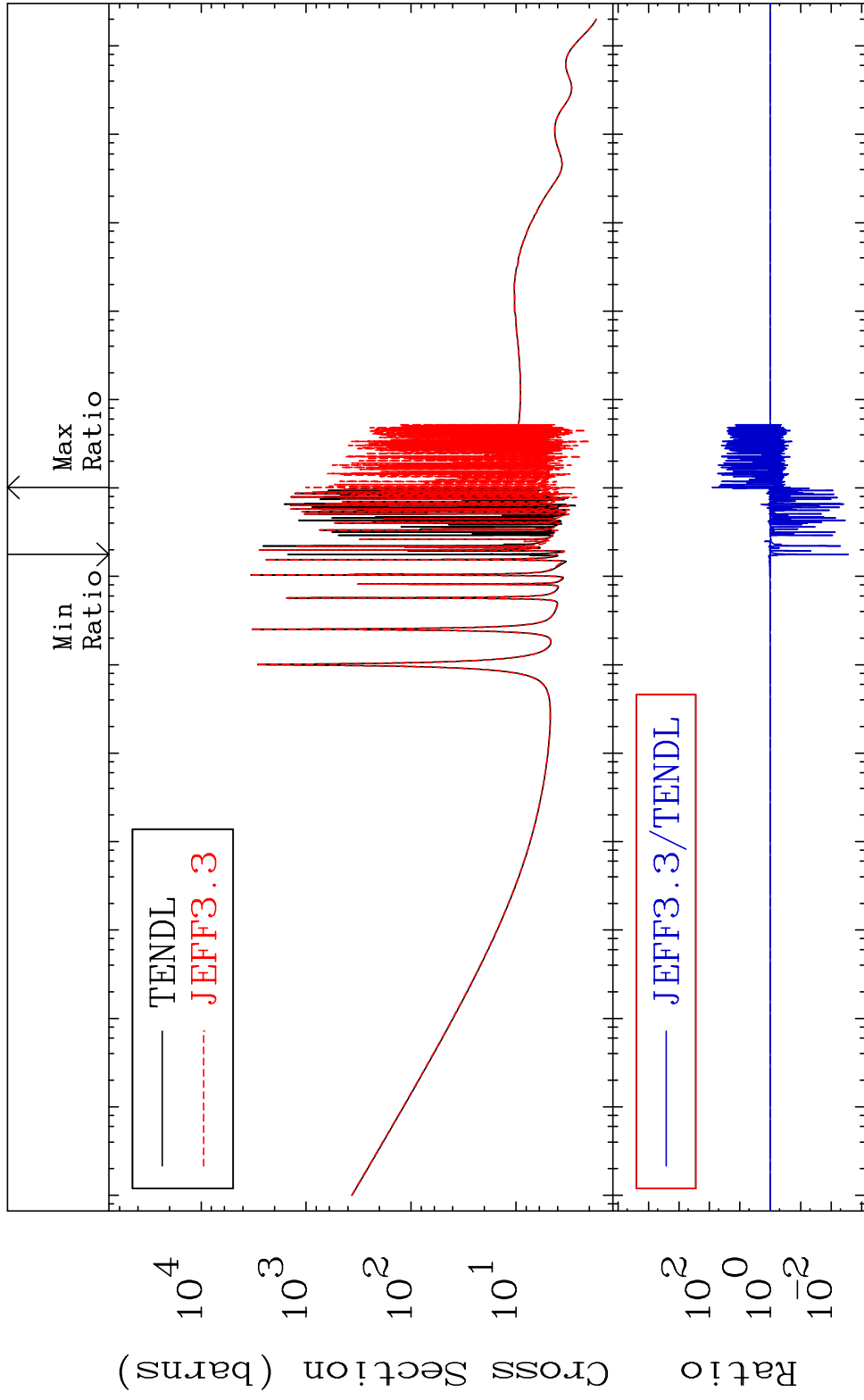
Press Mouse Button to Start

MAT 4434

Total

44-Ru-99

Cross Section -99.72 To 7902. %



1

Incident Energy (eV)

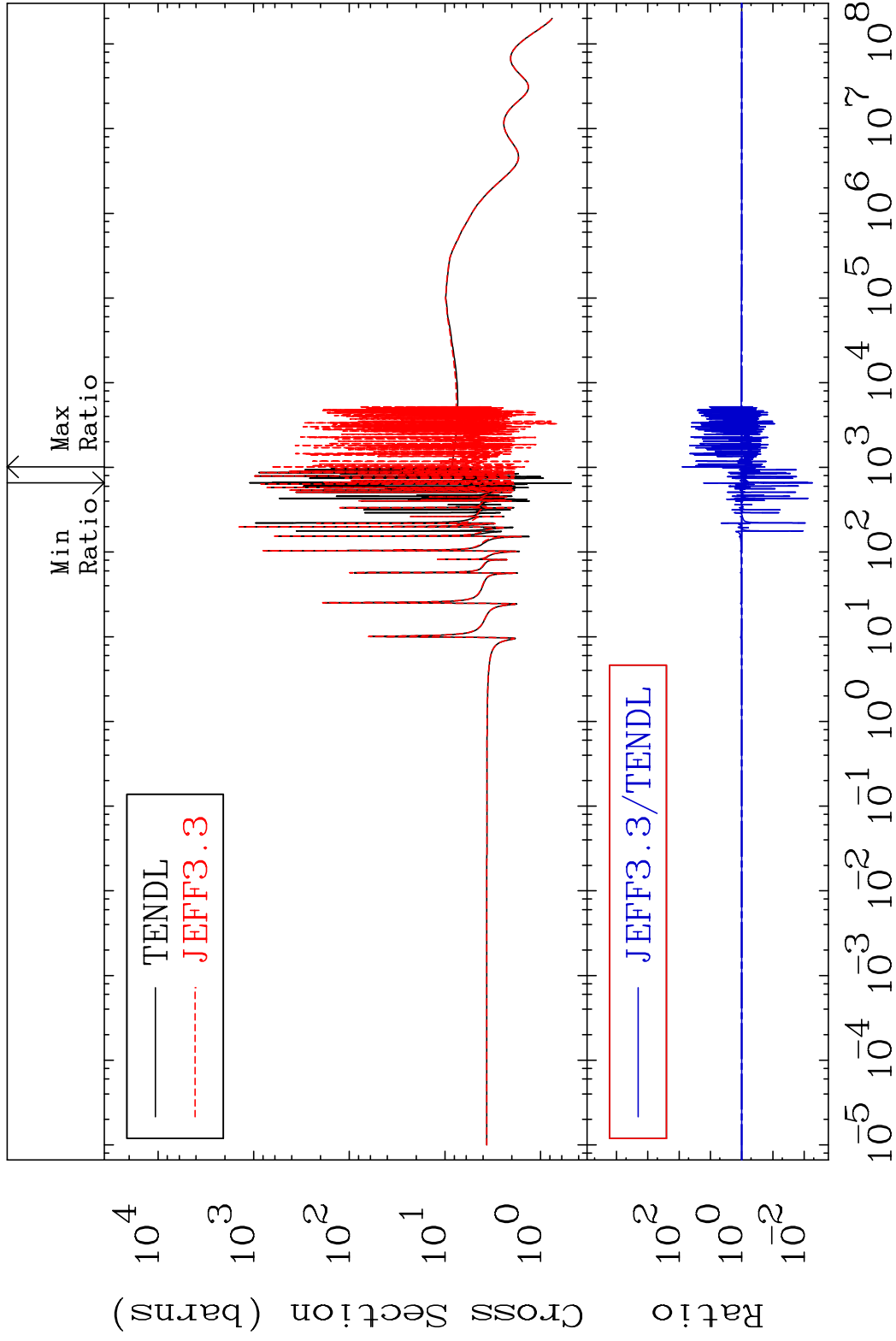
44-Ru-99

MAT 4434

Elastic

44-Ru-99

Cross Section -99.46 To 7775. %

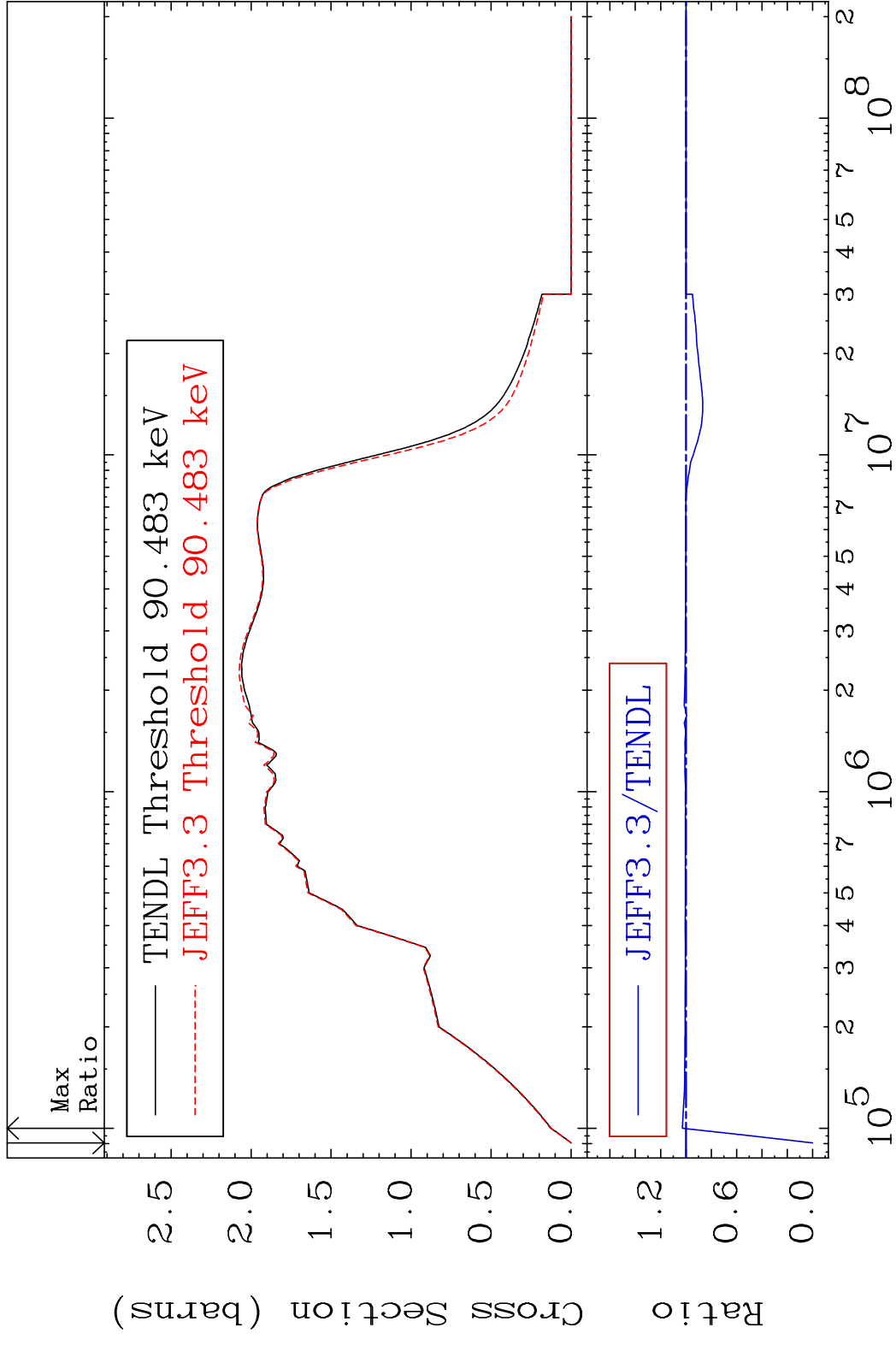


2

Incident Energy (eV)

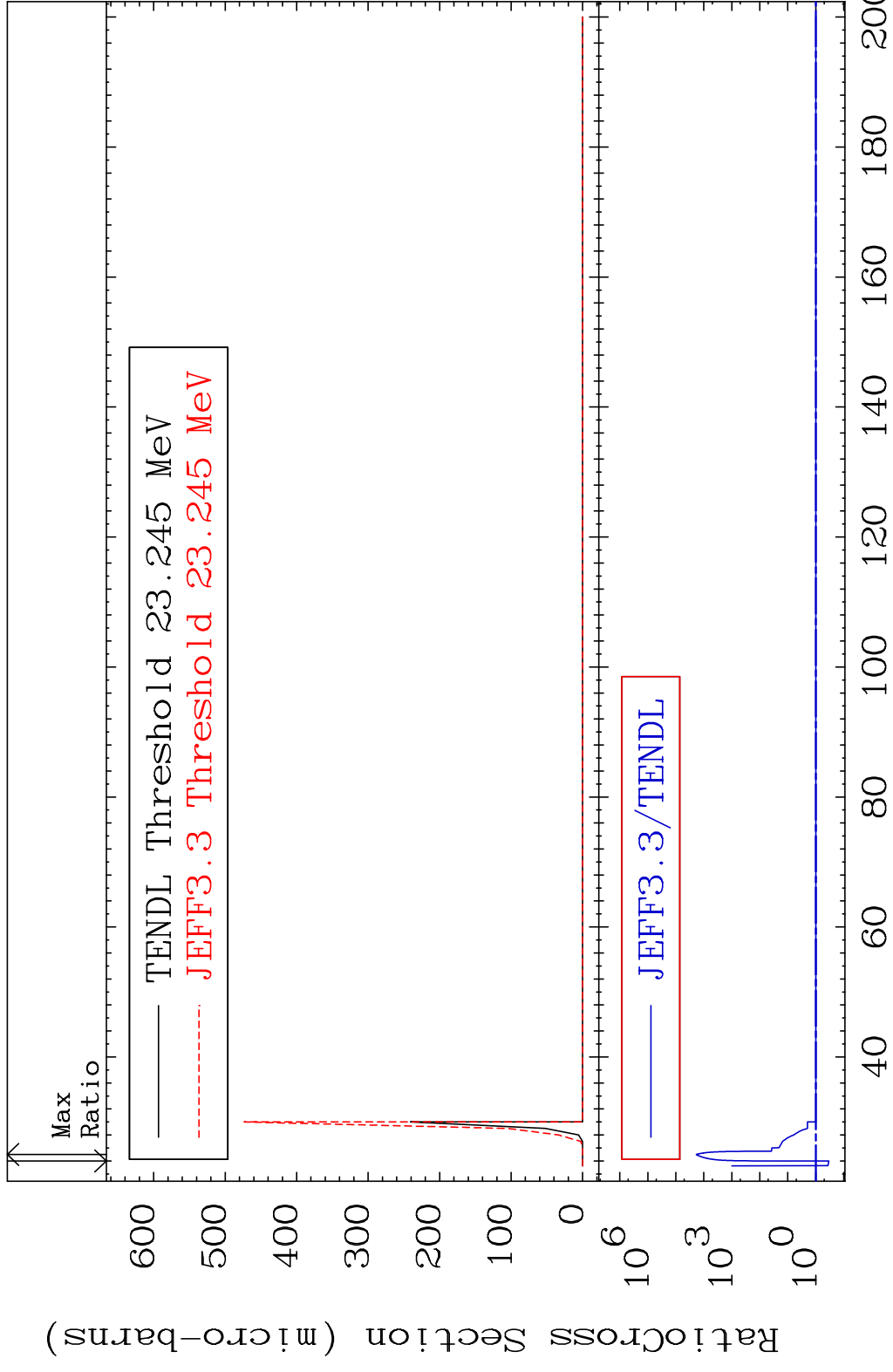
44-Ru-99

MAT 4434 Inelastic Cross Section -100.0 To 2.833 % 44-Ru-99



3 Incident Energy (eV) 44-Ru-99

MAT 4434 (n,2n) d 44-Ru-99
 Cross Section -65.69 To 9999. %

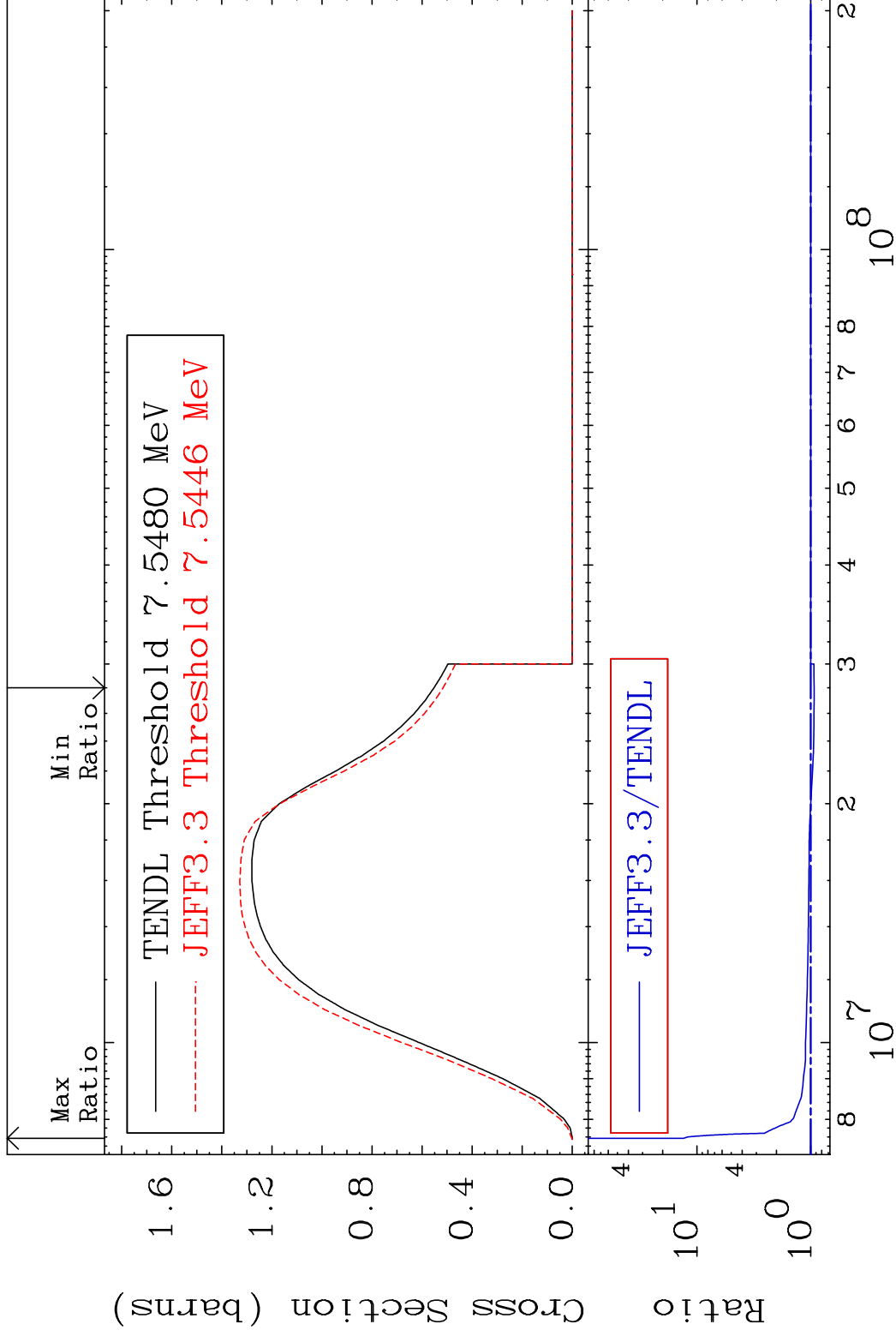


MAT 4434

(n,2n)

44-Ru-99

Cross Section -6.572 To 1207. %



5

Incident Energy (eV)

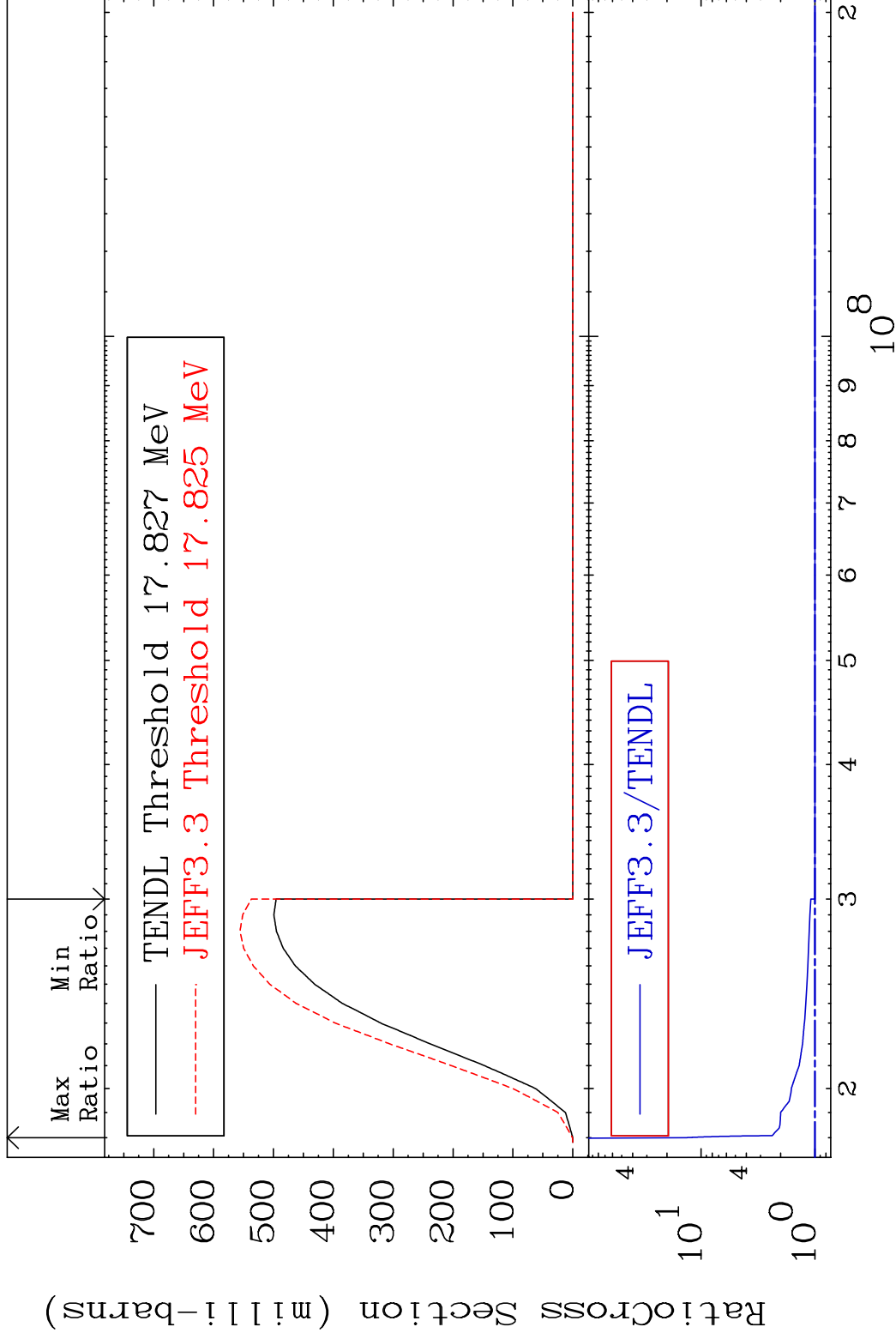
44-Ru-99

MAT 4434

(n,3n)

44-Ru-99

Cross Section 0.000 To 1306. %



6

Incident Energy (eV)

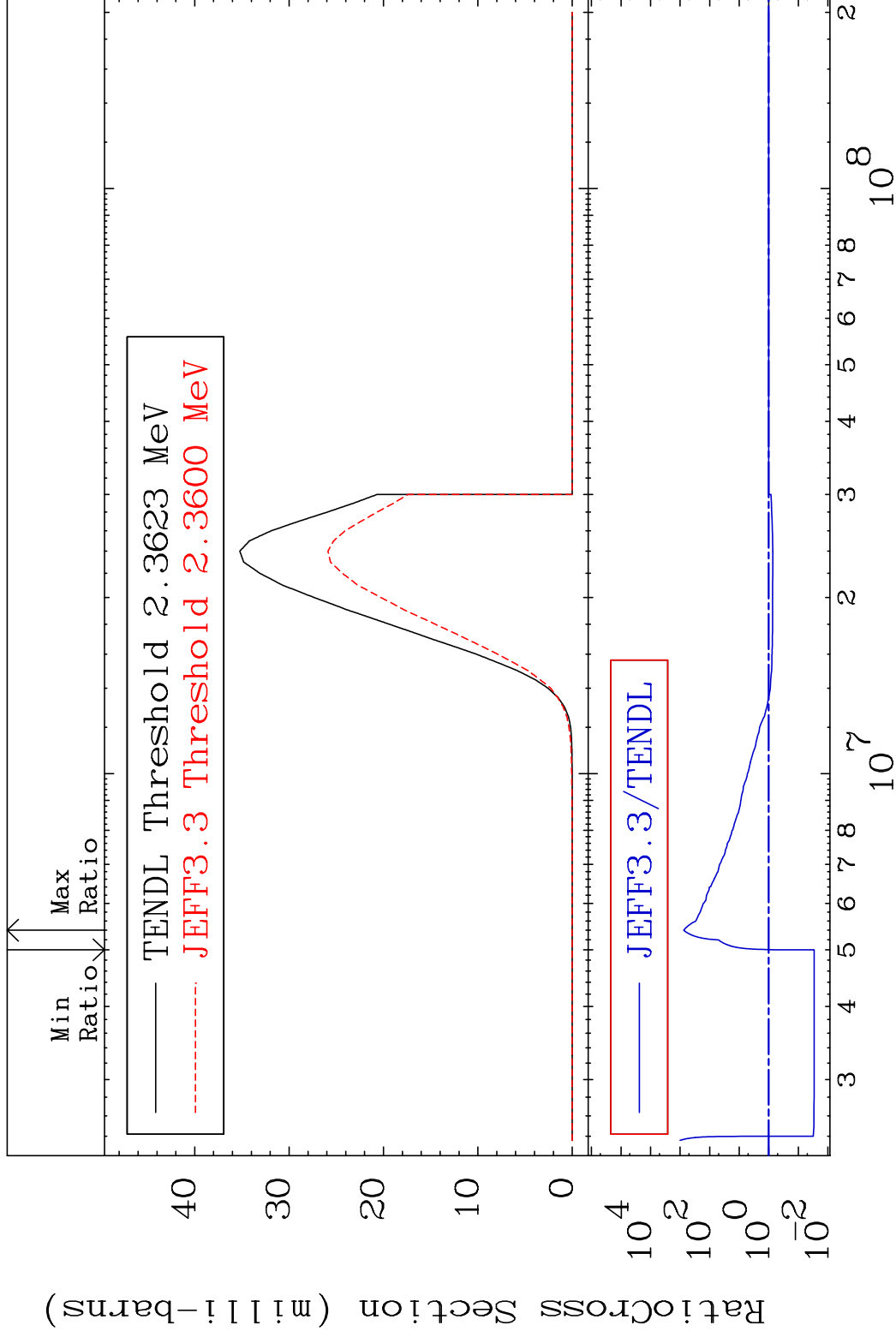
44-Ru-99

MAT 4434

(n, n') α

44-Ru-99

Cross Section -97.07 To 9999. %

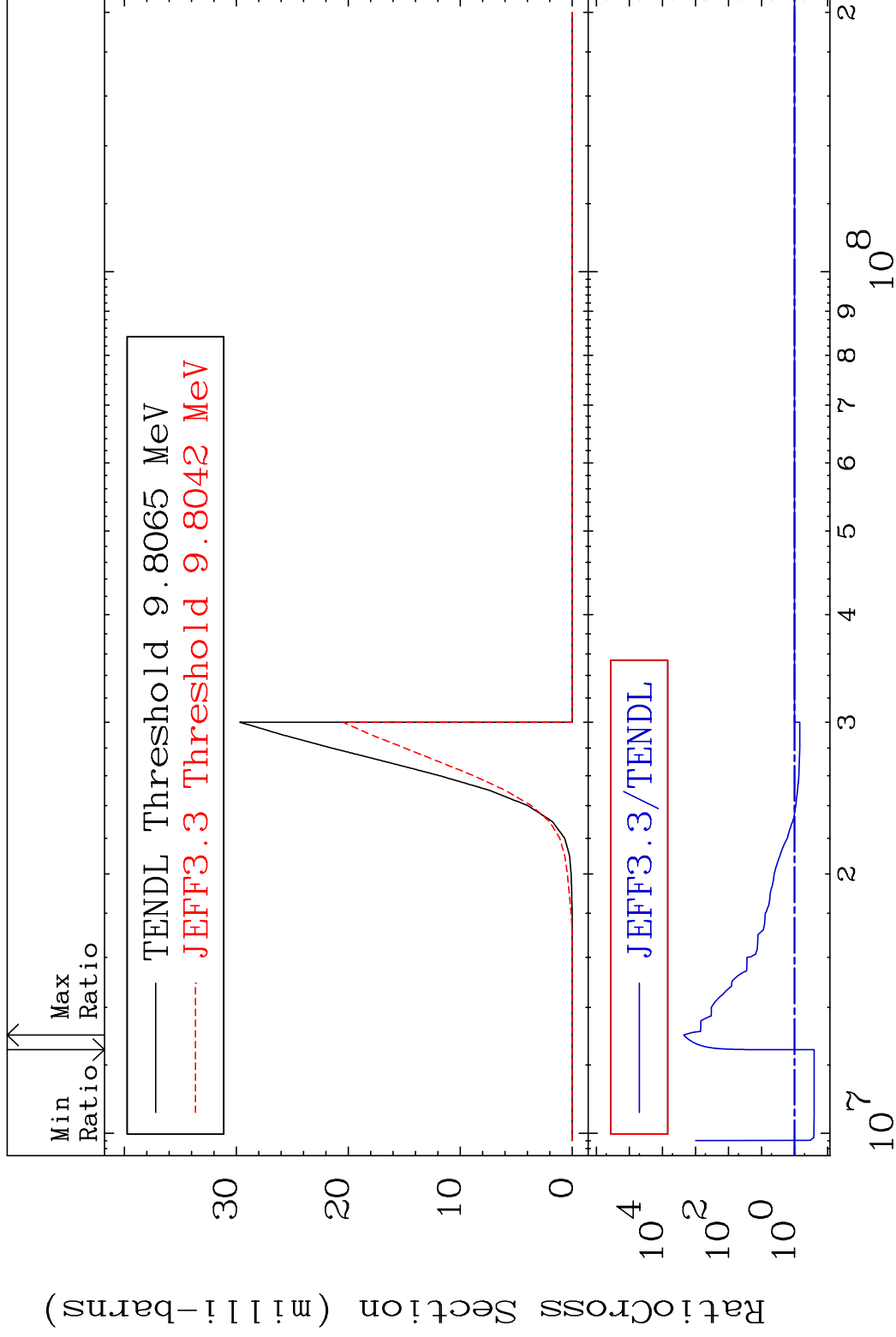


MAT 4434

(n,2n) α

44-Ru-99

Cross Section -74.49 To 9999. %



8

Incident Energy (eV)

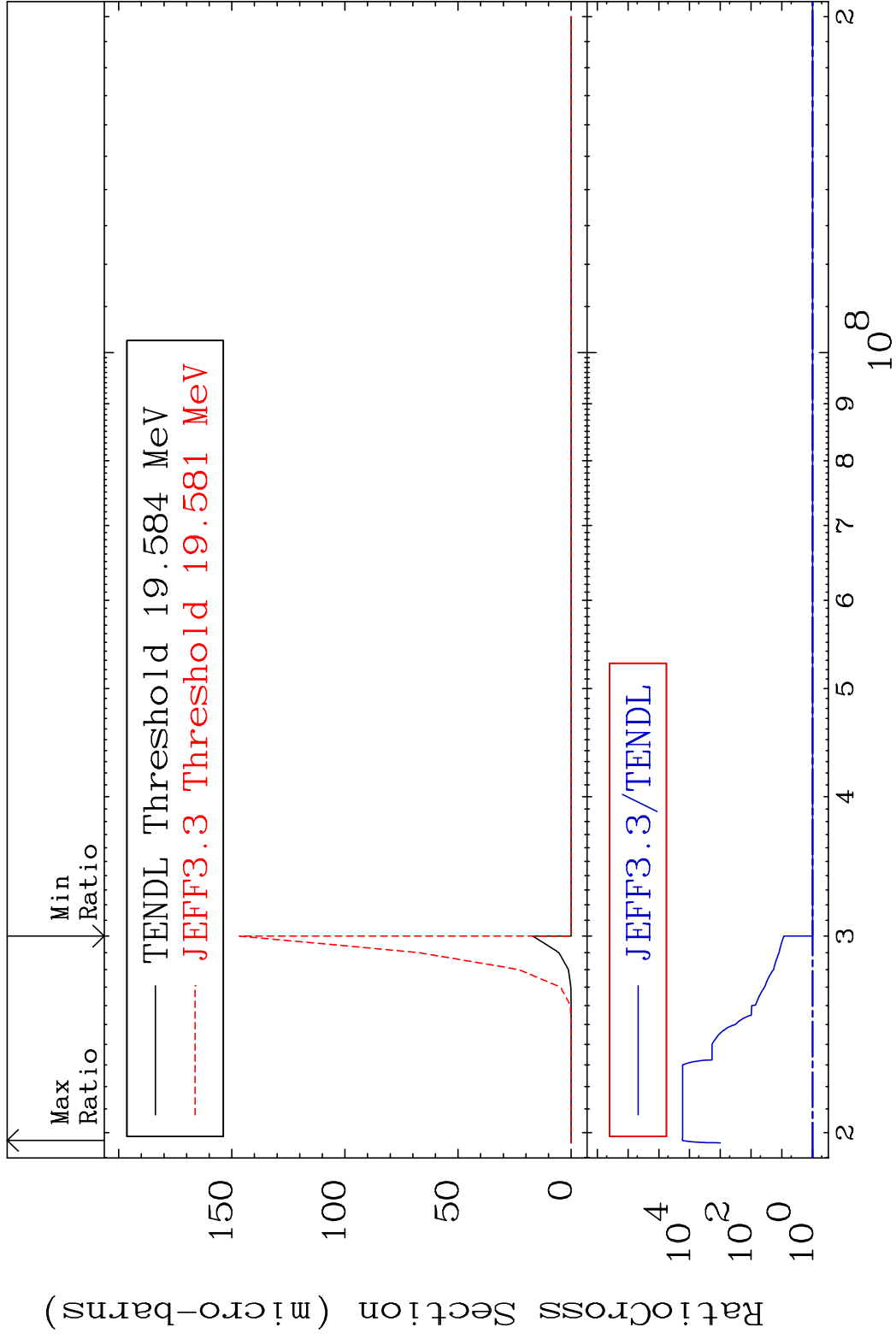
44-Ru-99

MAT 4434

(n,3n) α

44-Ru-99

Cross Section 0.000 To 9999. %



9

Incident Energy (eV)

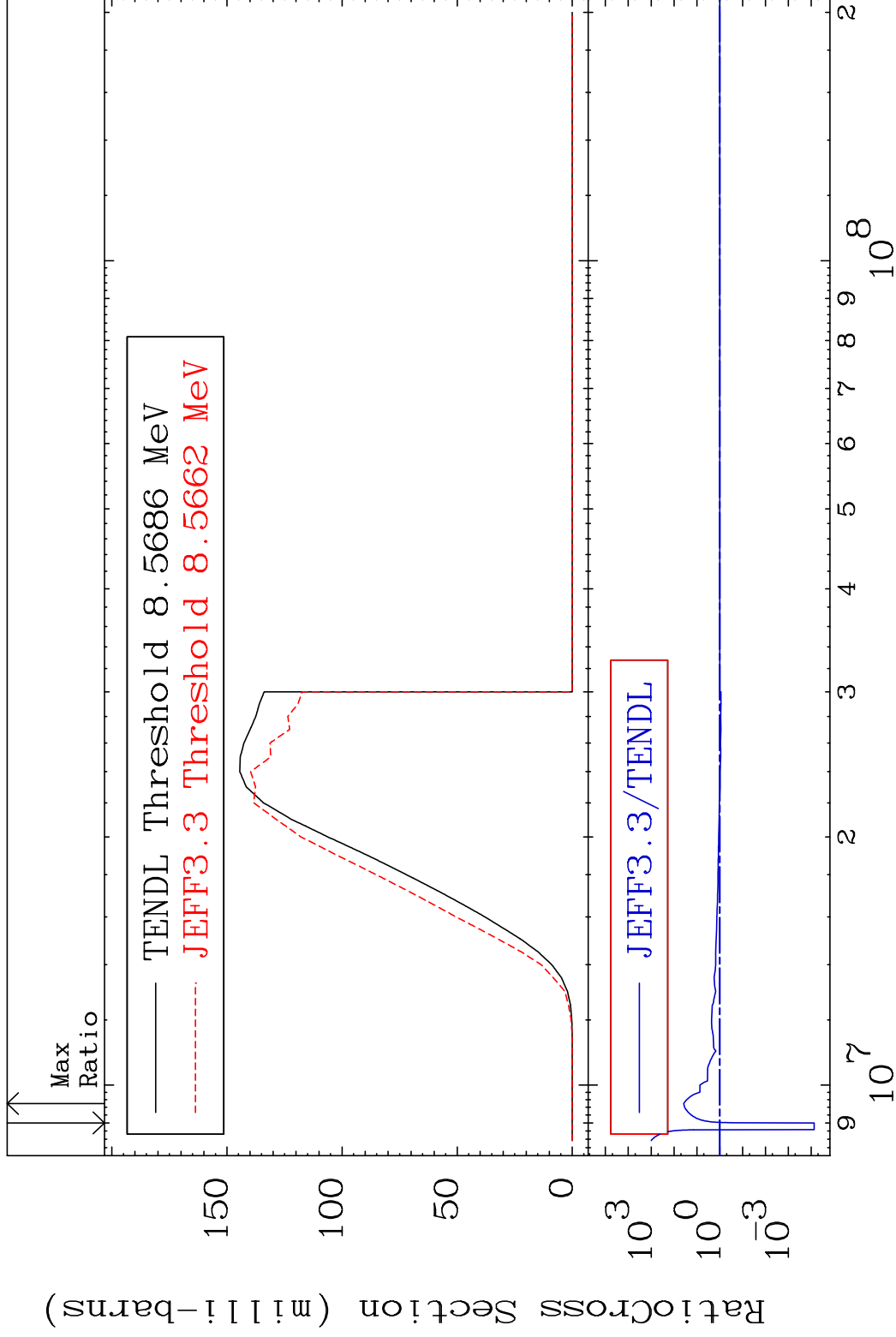
44-Ru-99

MAT 4434

(n, n') p

44-Ru-99

Cross Section -99.99 To 3679. %

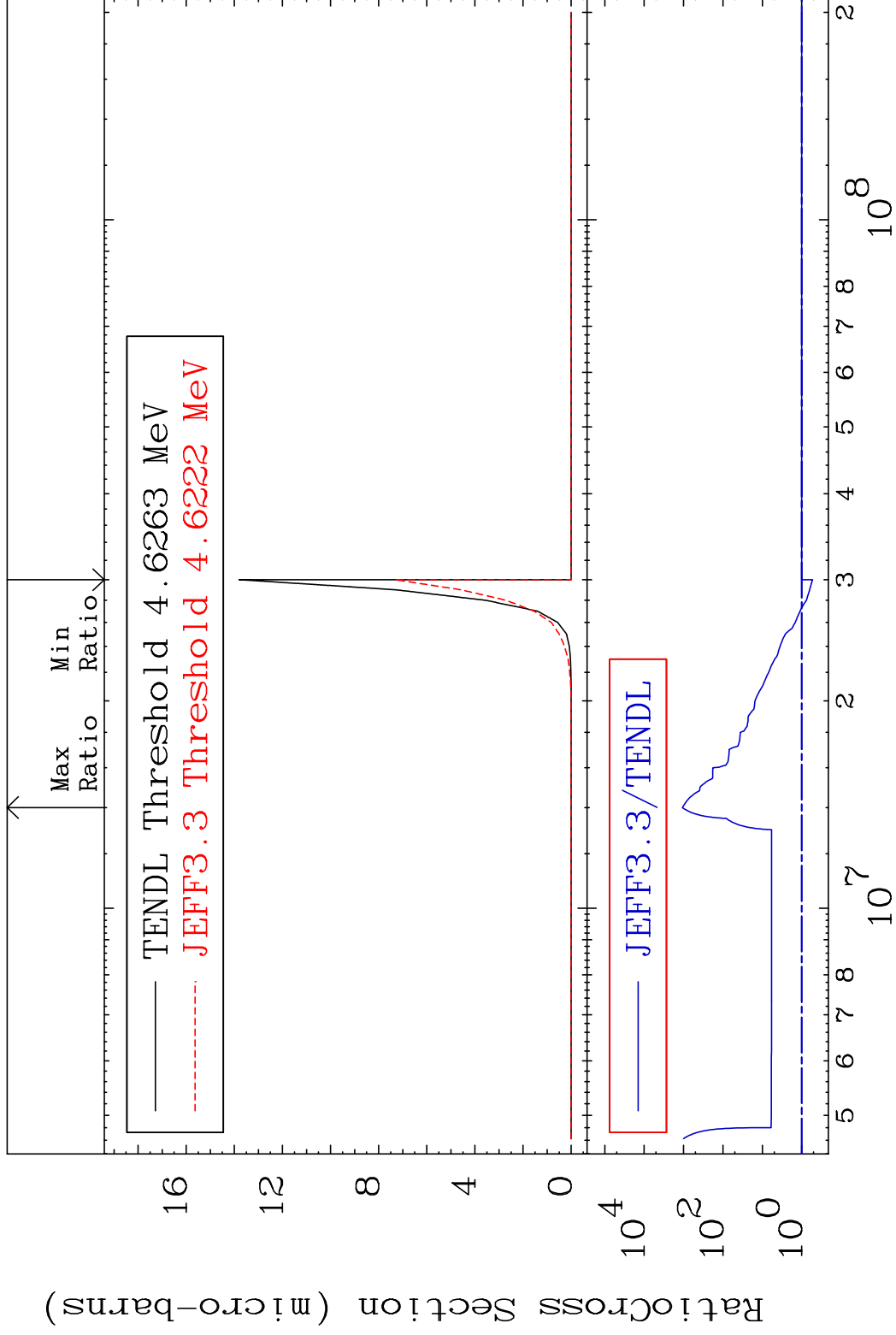


MAT 4434

(n, n') 2 α

44-Ru-99

Cross Section -46.87 To 9999. %

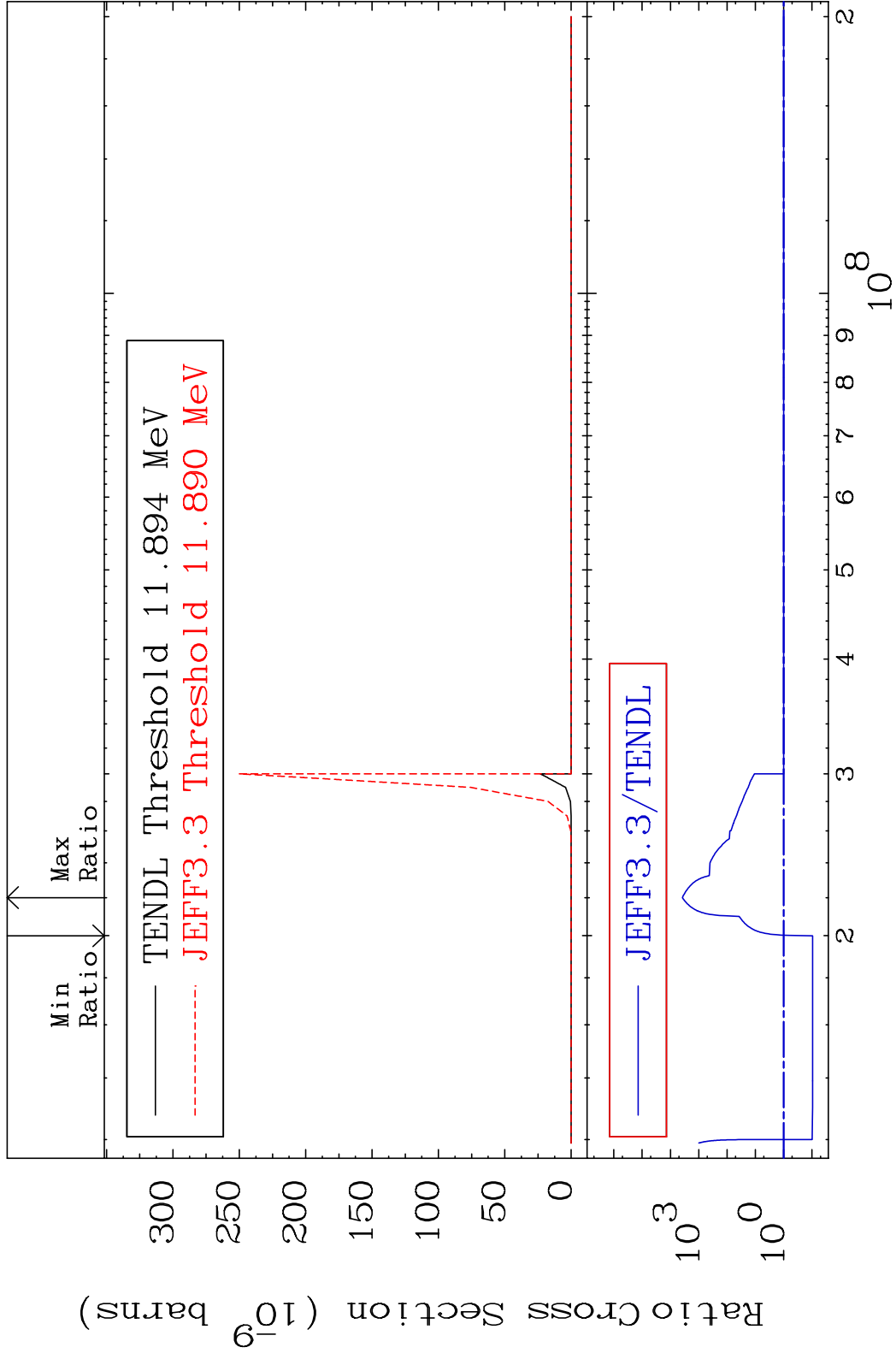


11

Incident Energy (eV)

44-Ru-99

MAT 4434 (n,2n) 2α 44-Ru-99
 Cross Section -90.47 To 9999. %

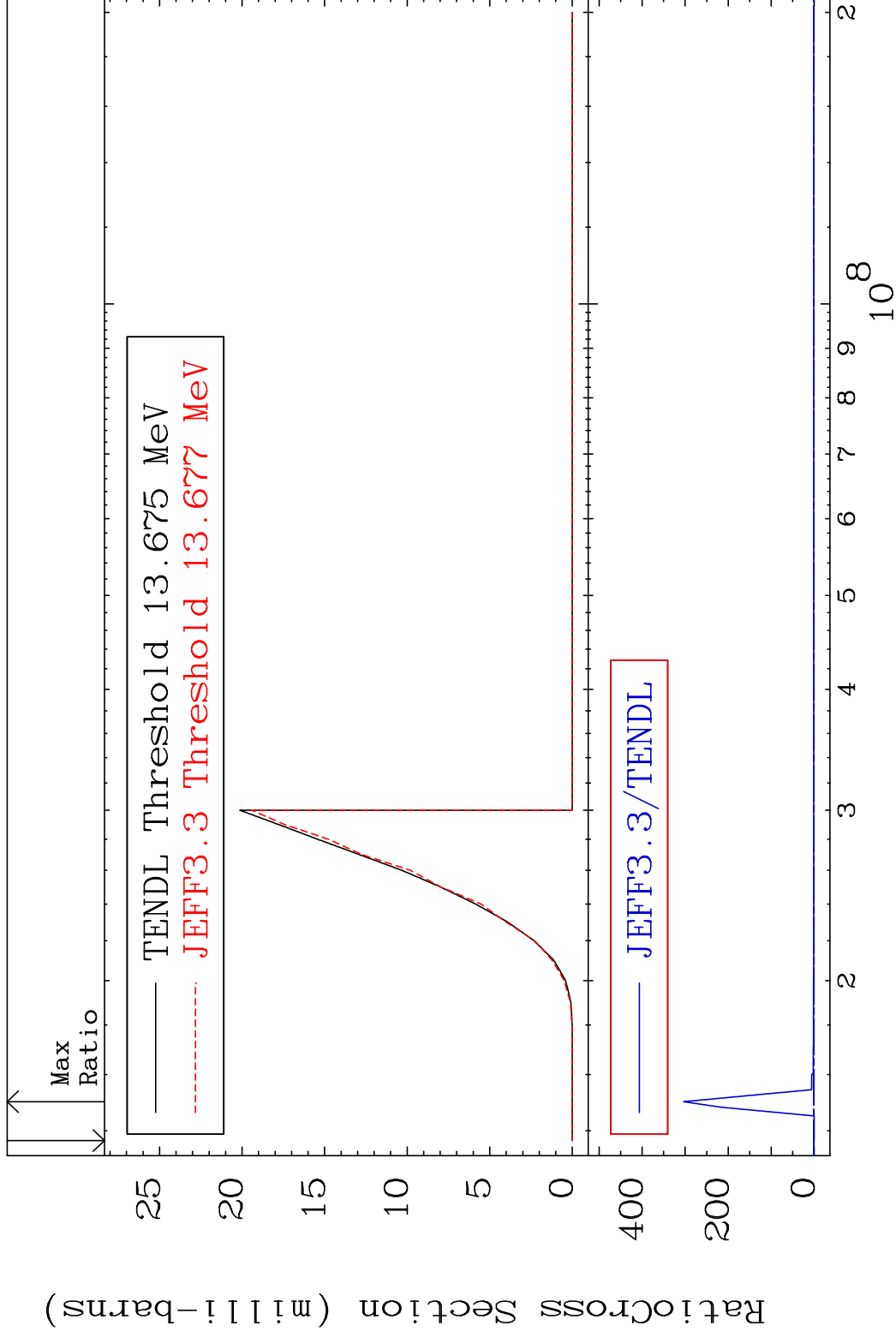


MAT 4434

(n, n') d

44-Ru-99

Cross Section -100.0 To 9999. %



13

Incident Energy (eV)

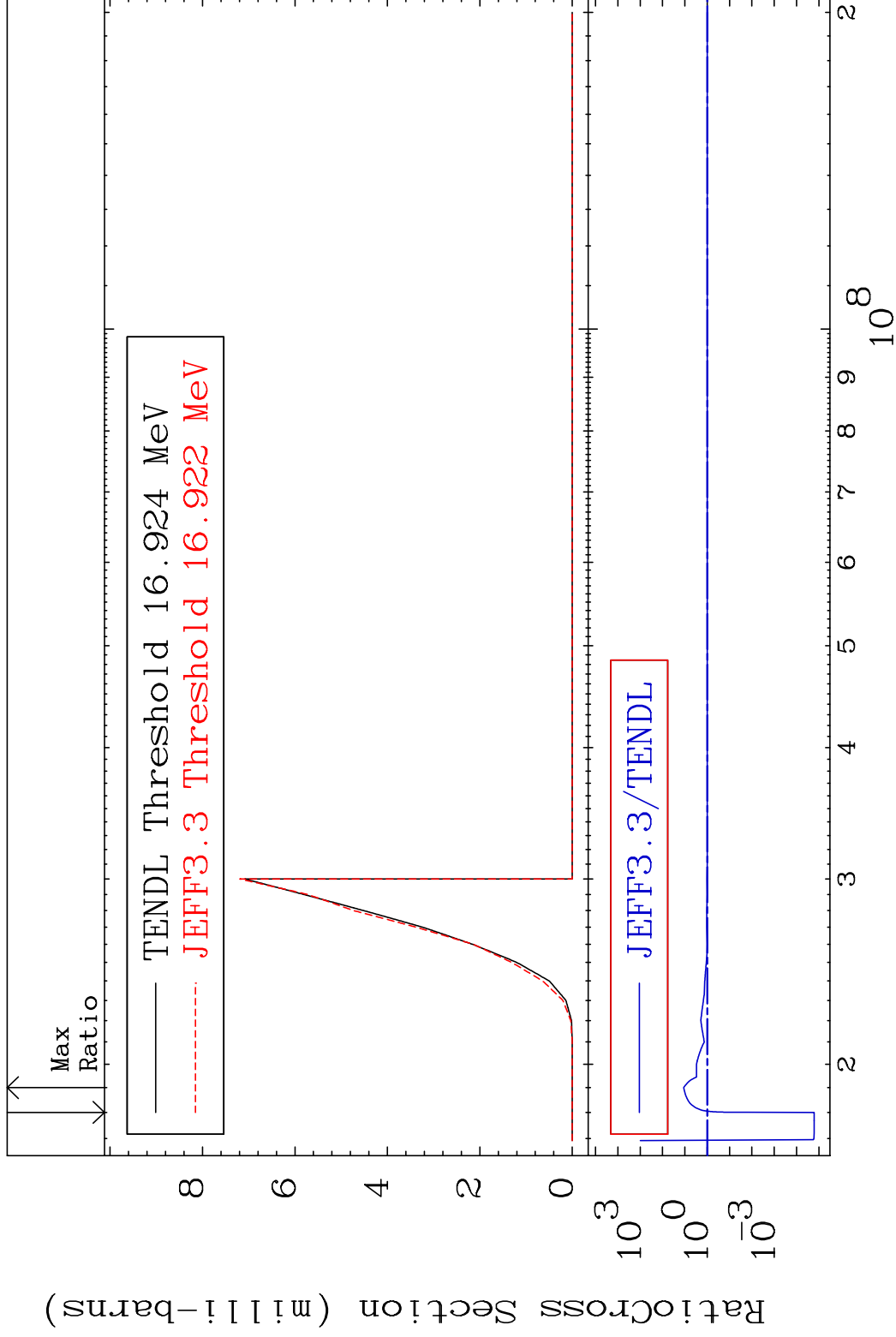
44-Ru-99

MAT 4434

(n, n') t

44-Ru-99

Cross Section -100.0 To 1030. %



14

Incident Energy (eV)

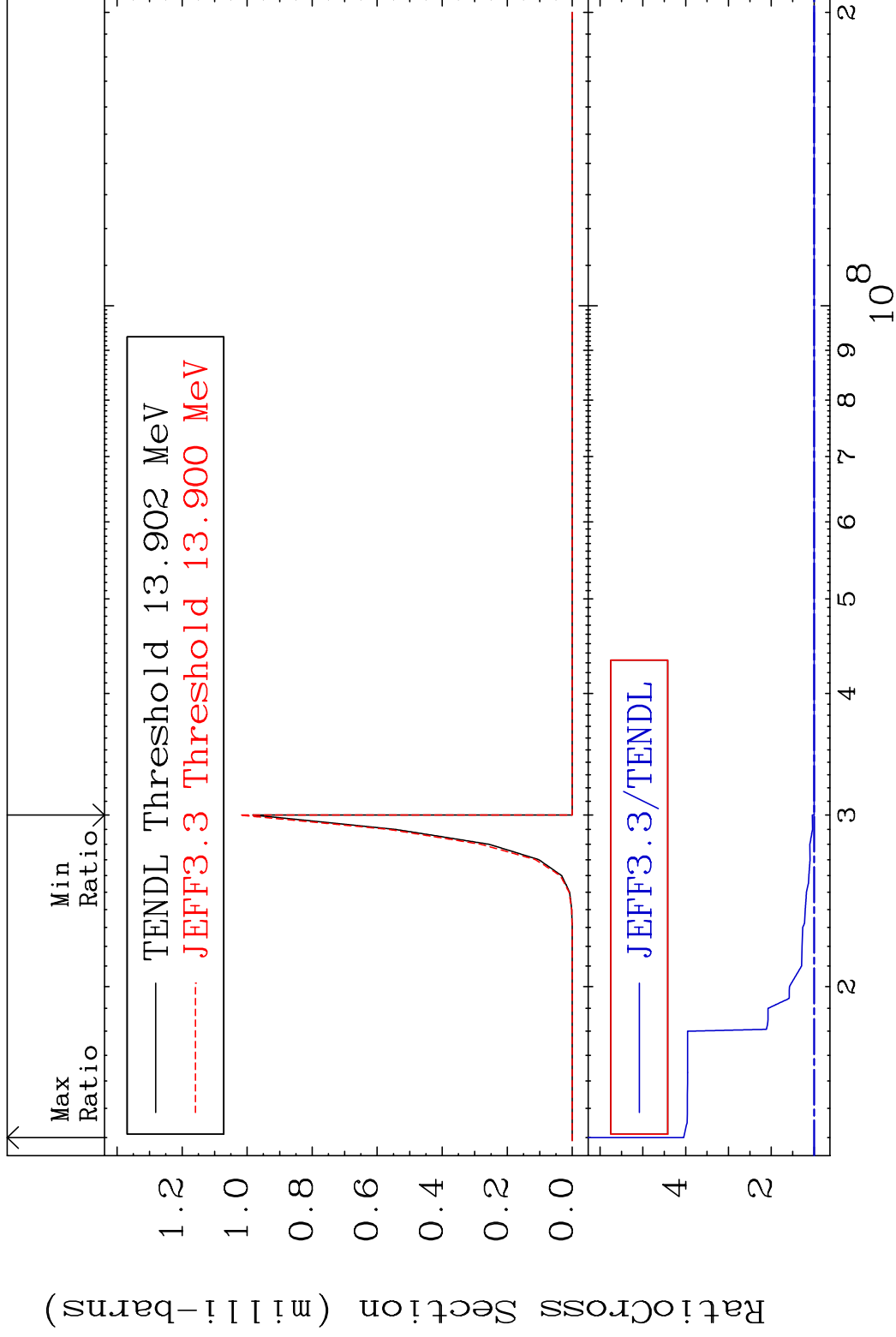
44-Ru-99

MAT 4434

(n,n') He-3

44-Ru-99

Cross Section 0.000 To 304.7 %



15

Incident Energy (eV)

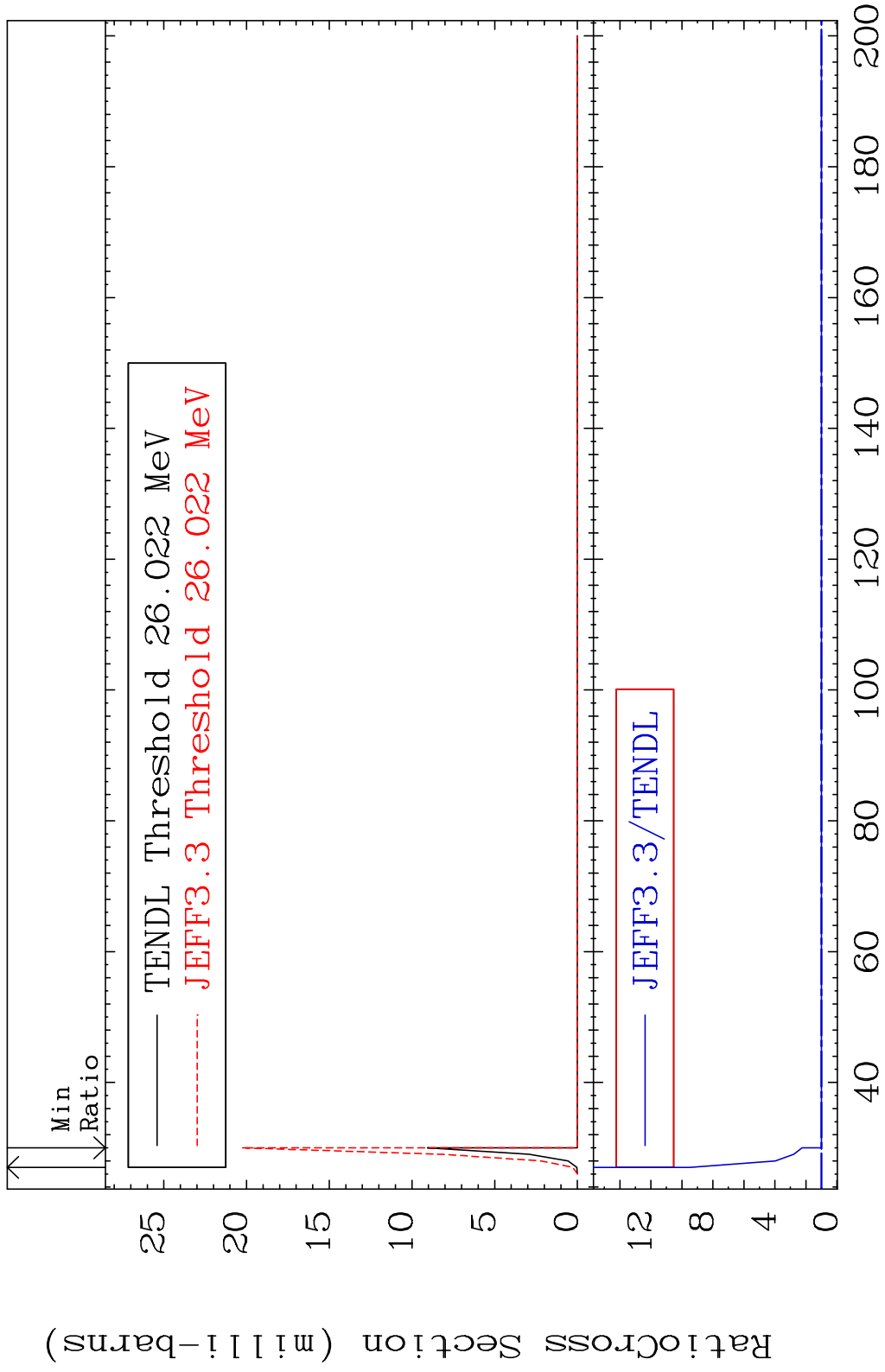
44-Ru-99

MAT 4434

(n, 4n)

44-Ru-99

Cross Section 0.000 To 849.0 %

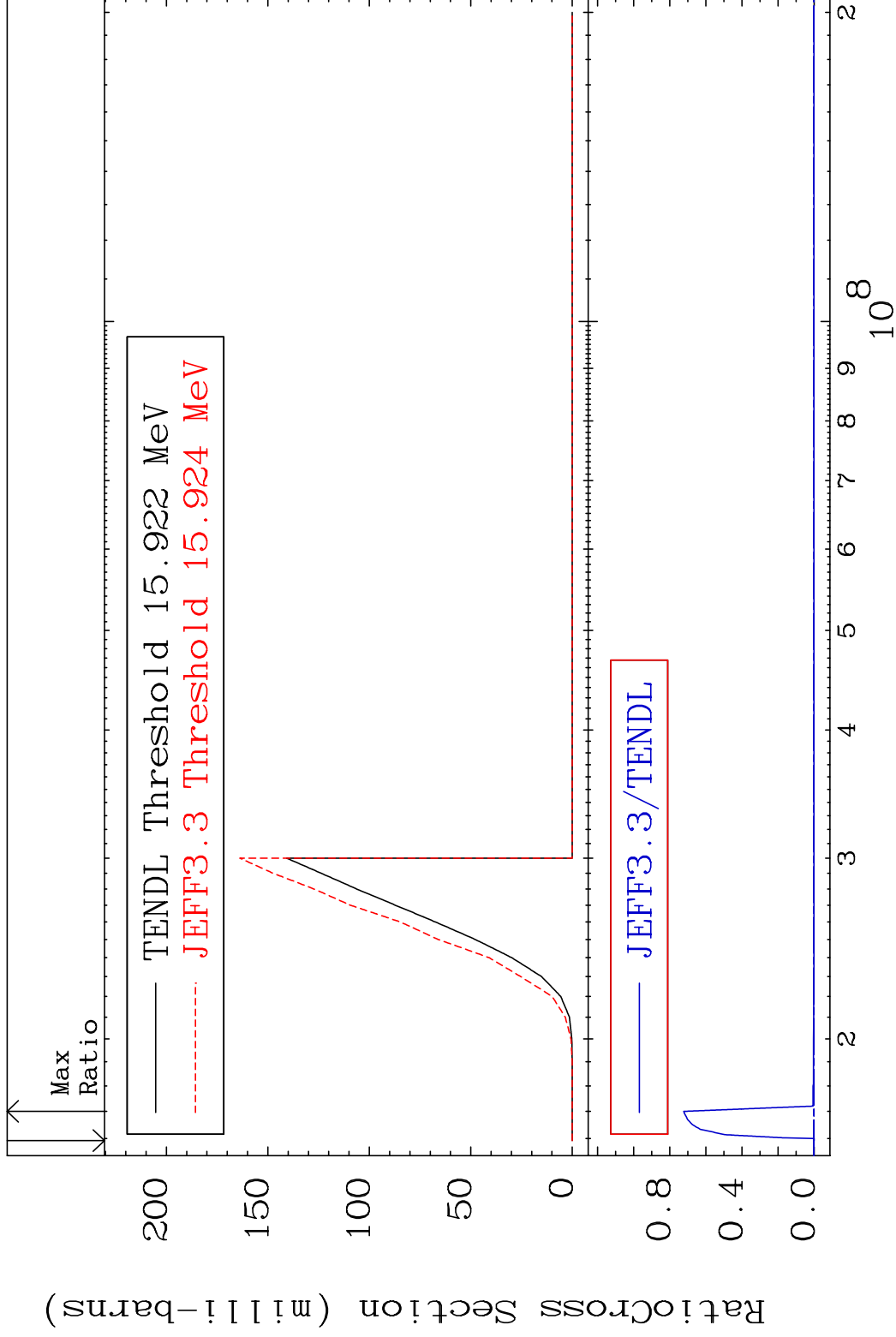


MAT 4434

(n,2n) p

44-Ru-99

Cross Section -100.0 To 9999. %

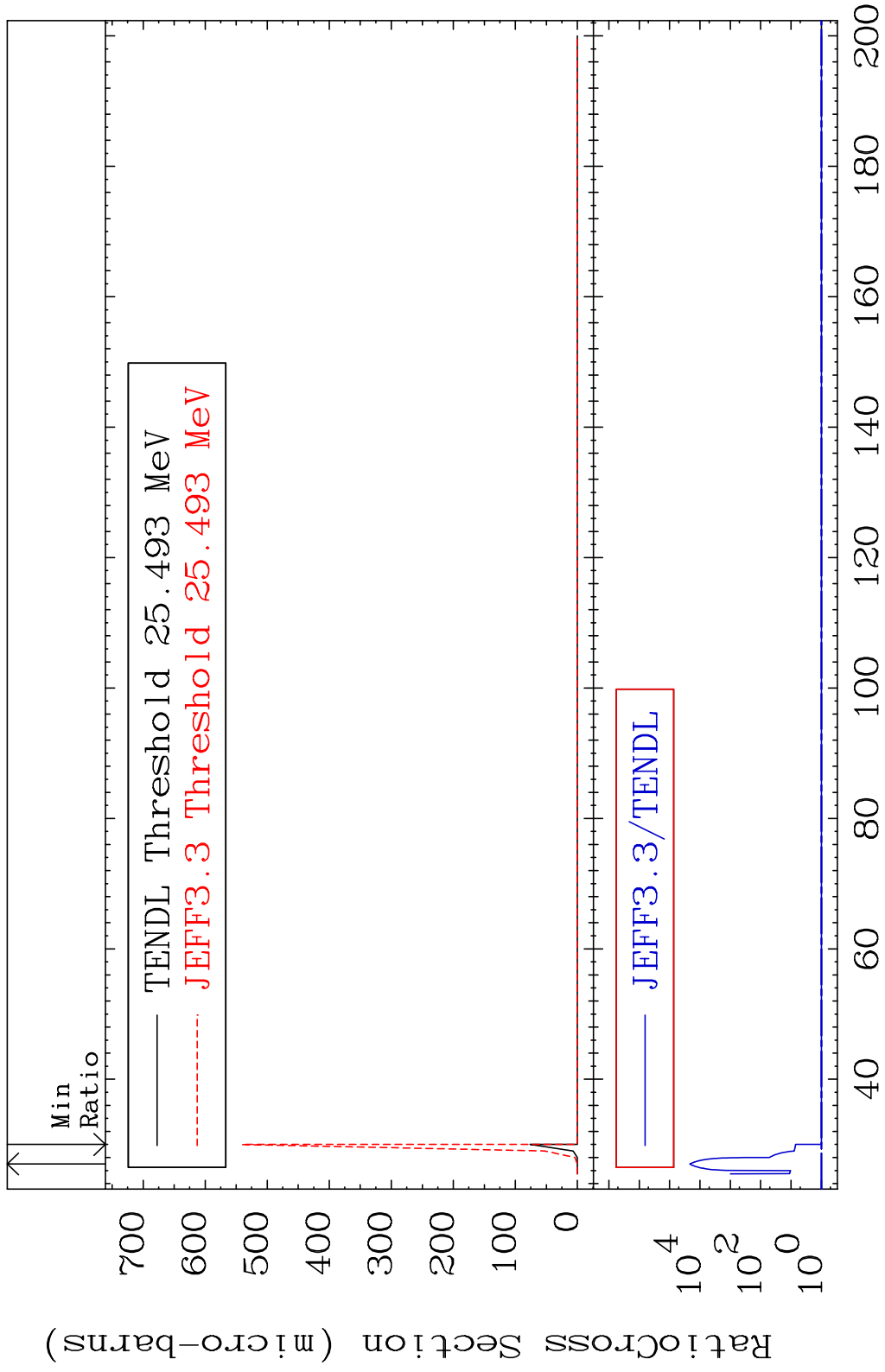


17

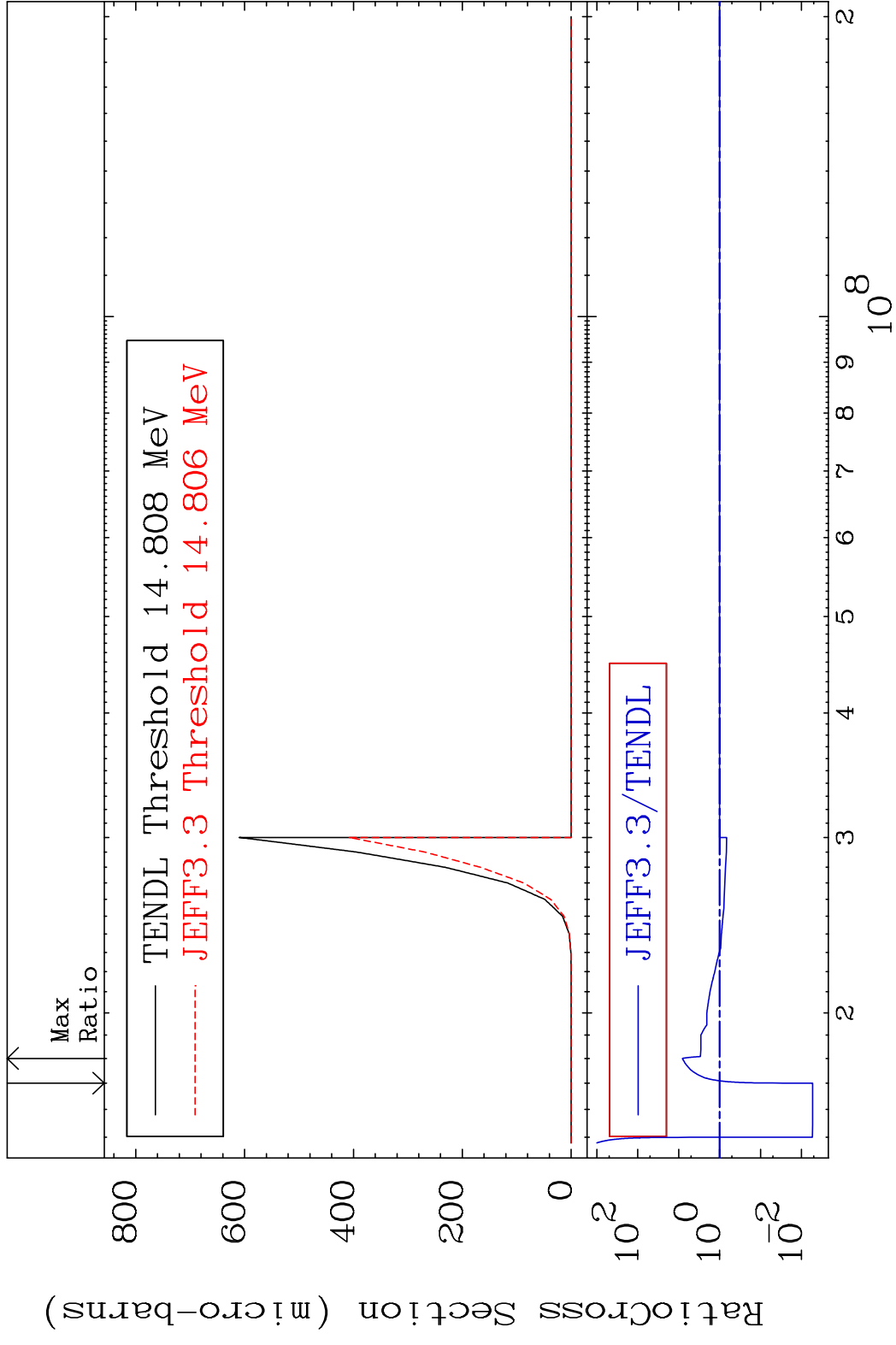
Incident Energy (eV)

44-Ru-99

MAT 4434 (n,3n) p 44-Ru-99
 Cross Section 0.000 To 9999. %

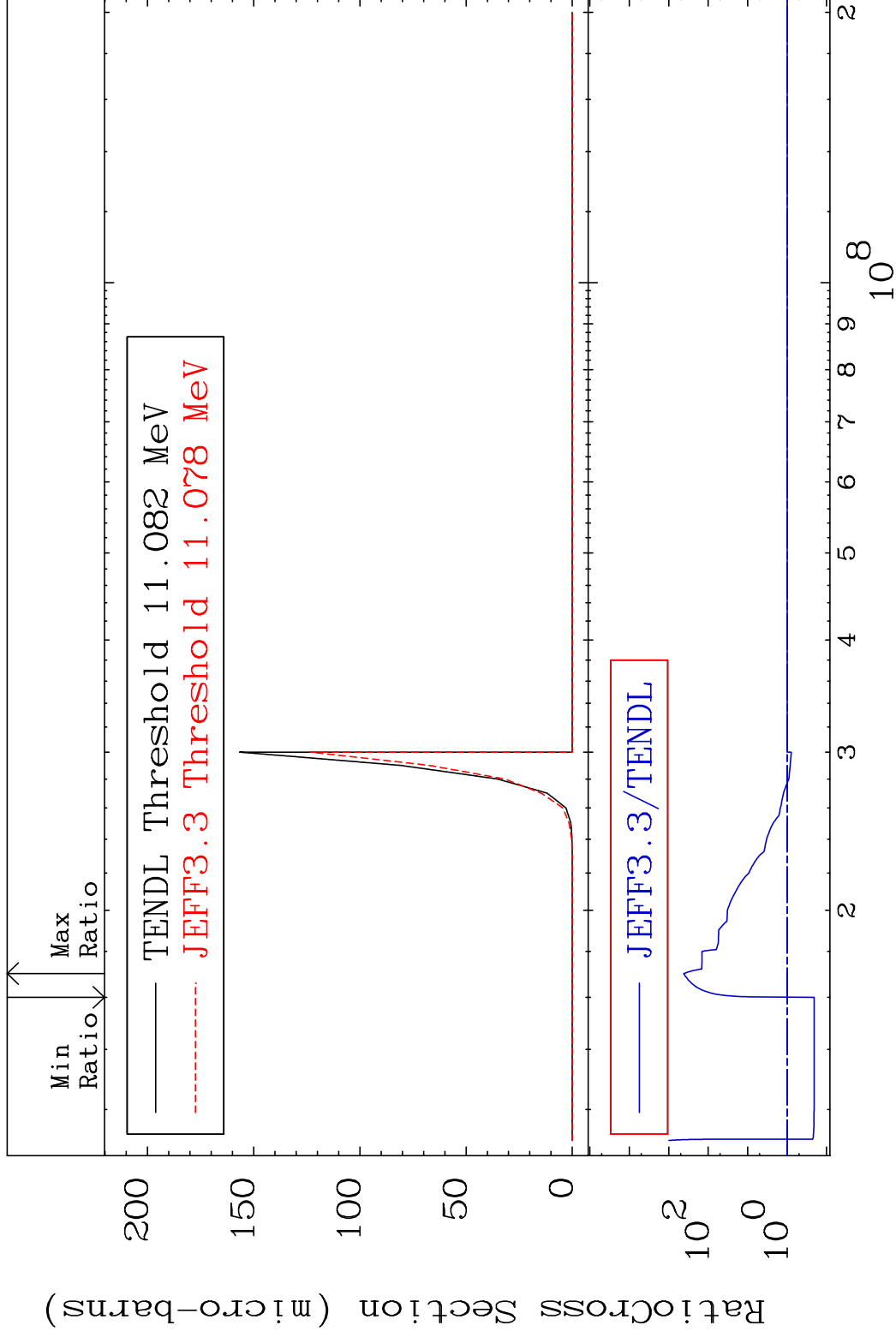


MAT 4434 (n,2n) p 44-Ru-99
 Cross Section -99.47 To 713.0 %



MAT 4434

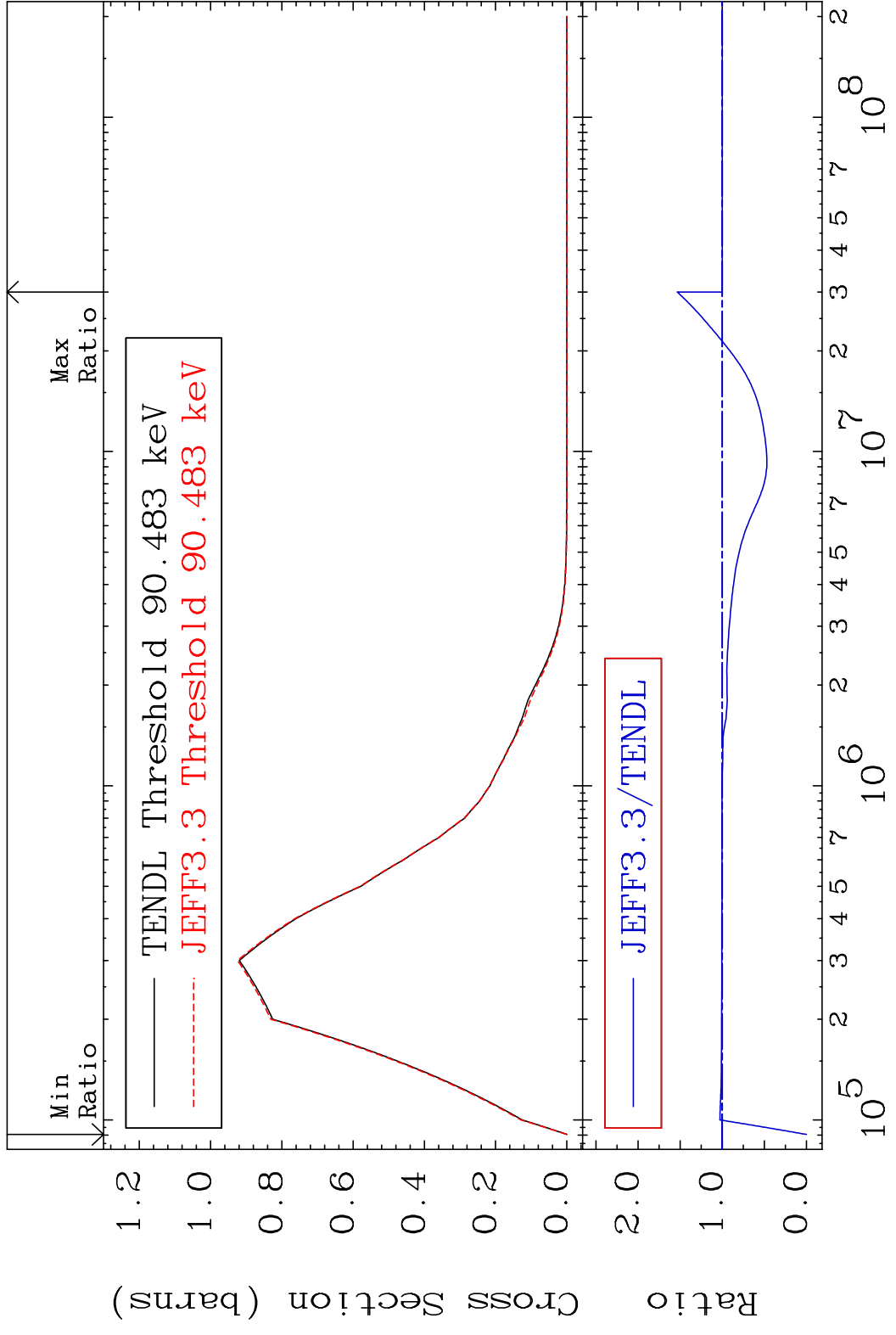
(n,n') p α 44-Ru-99
Cross Section -79.28 To 9999. %



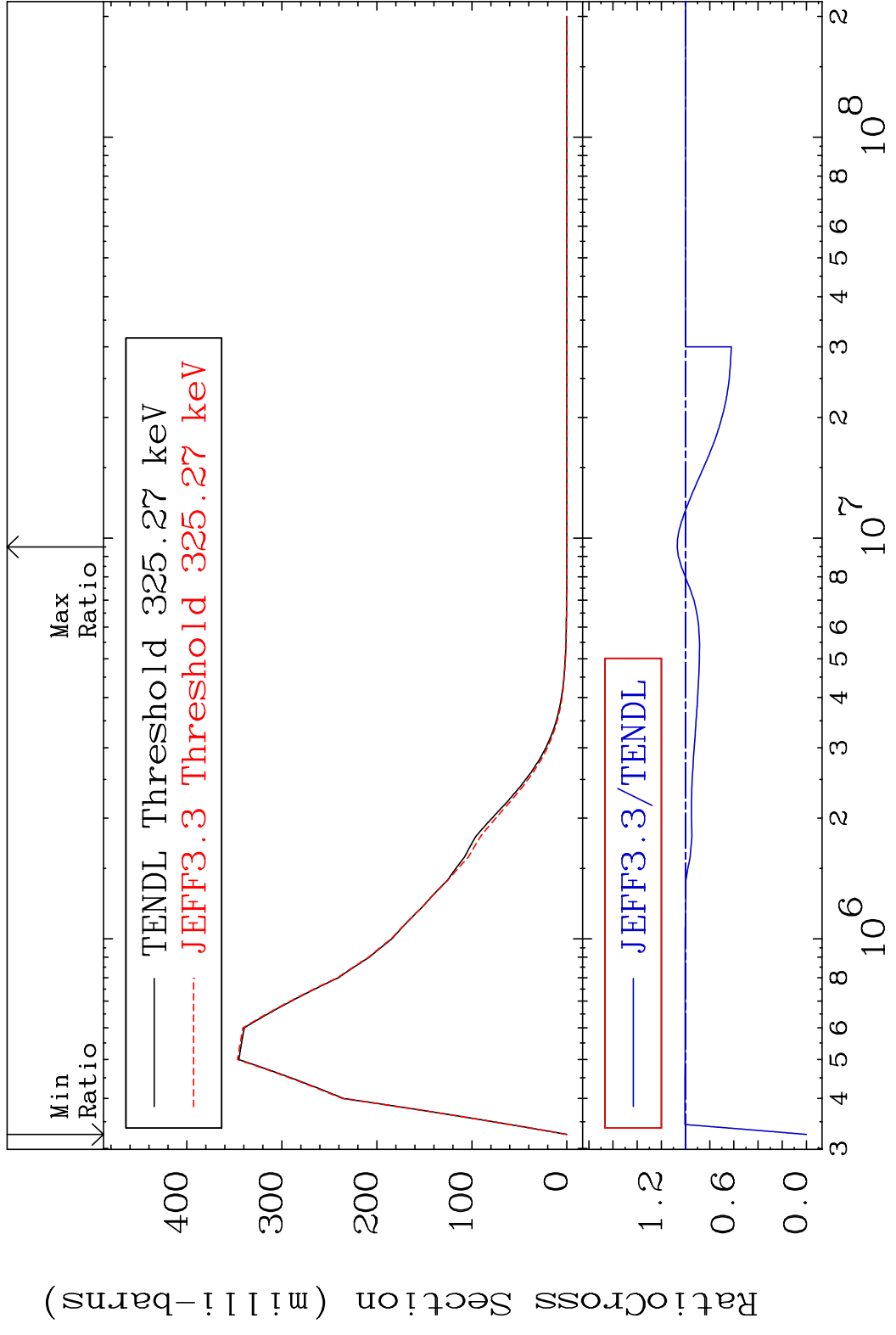
20

44-Ru-99

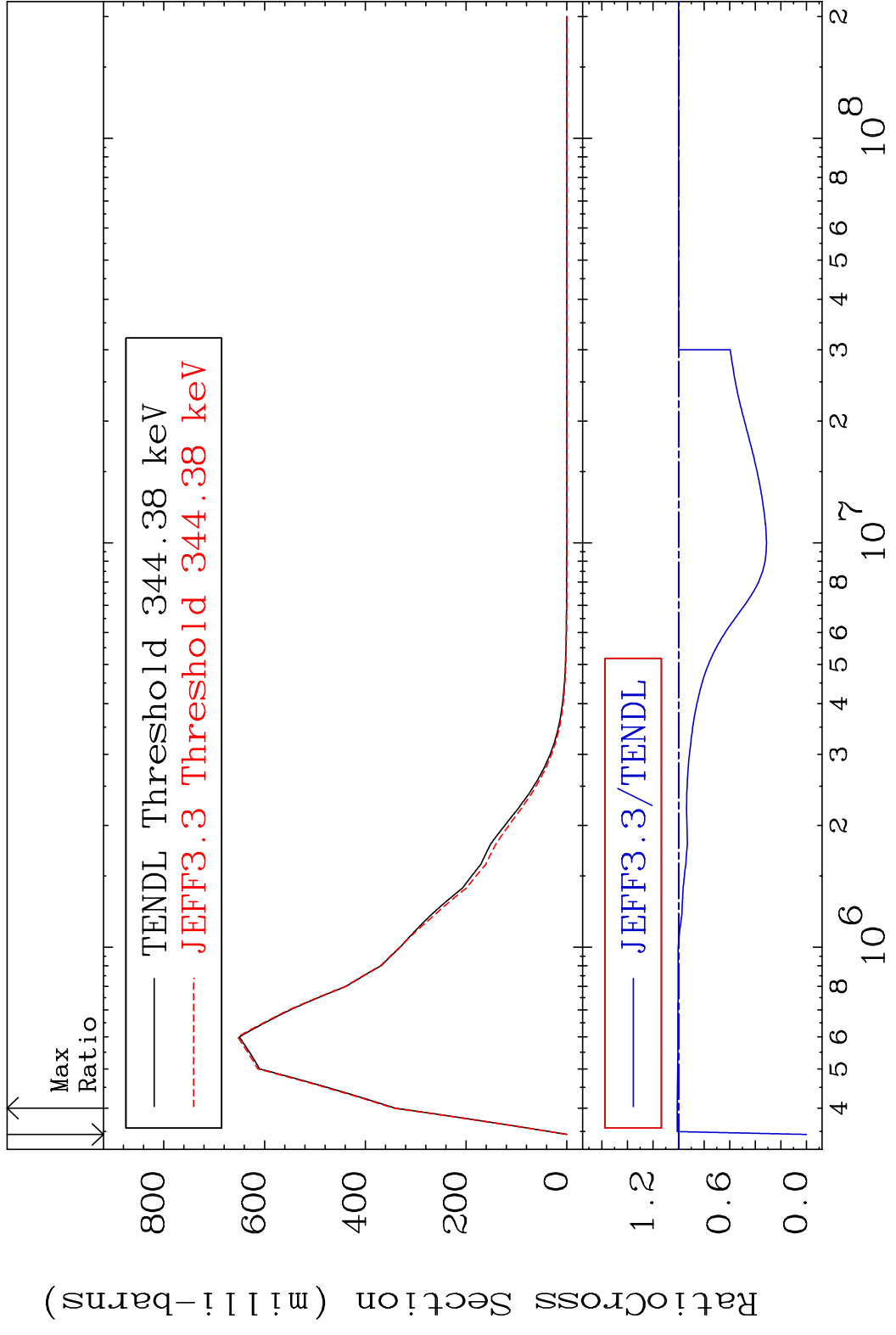
MAT 4434 MT= 51 (n, n') Level 44-Ru-99
 Cross Section -100.0 To 53.52 %



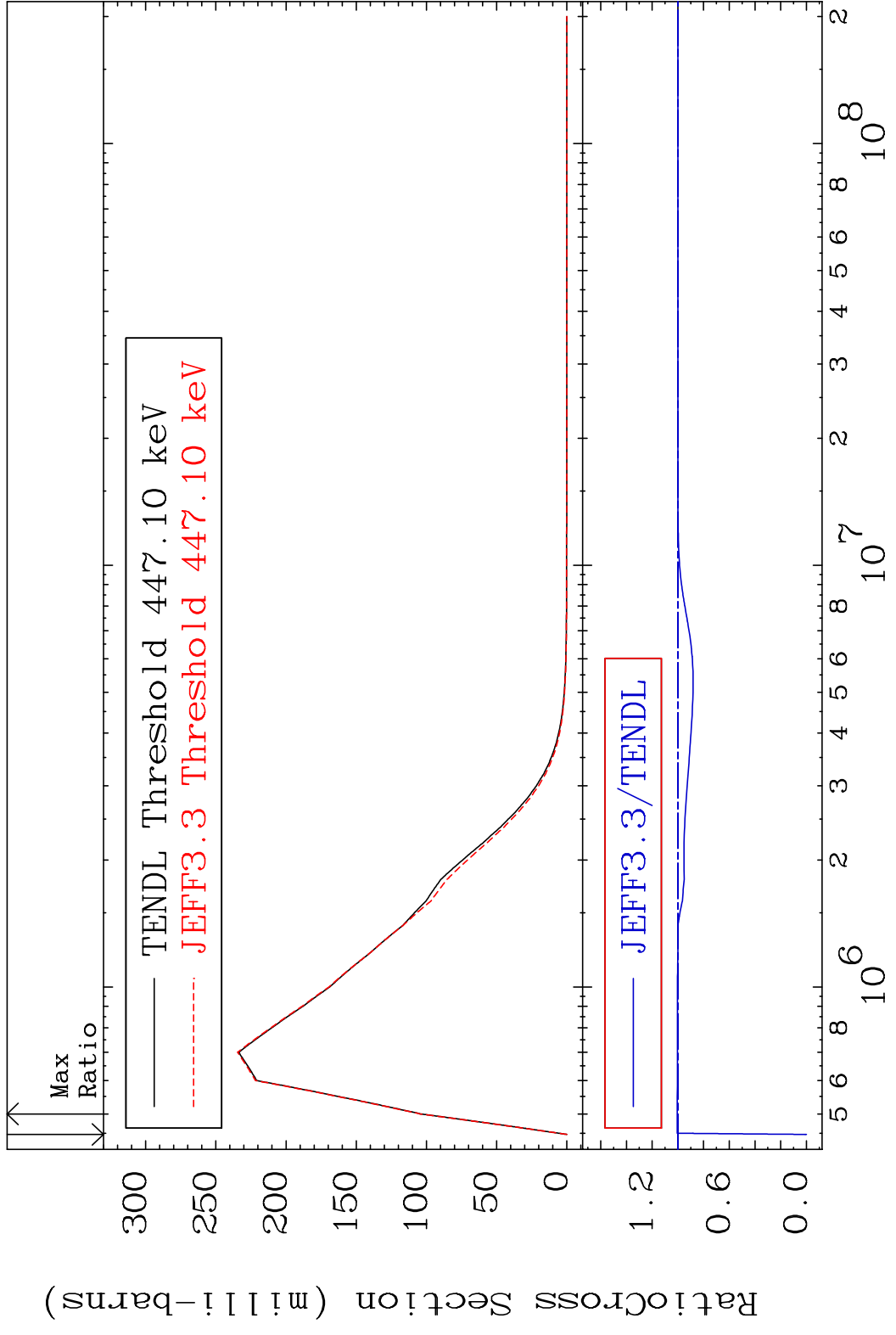
MAT 4434 MT= 52 (n, n') Level 44-Ru-99
 Cross Section -100.0 To 6.911 %



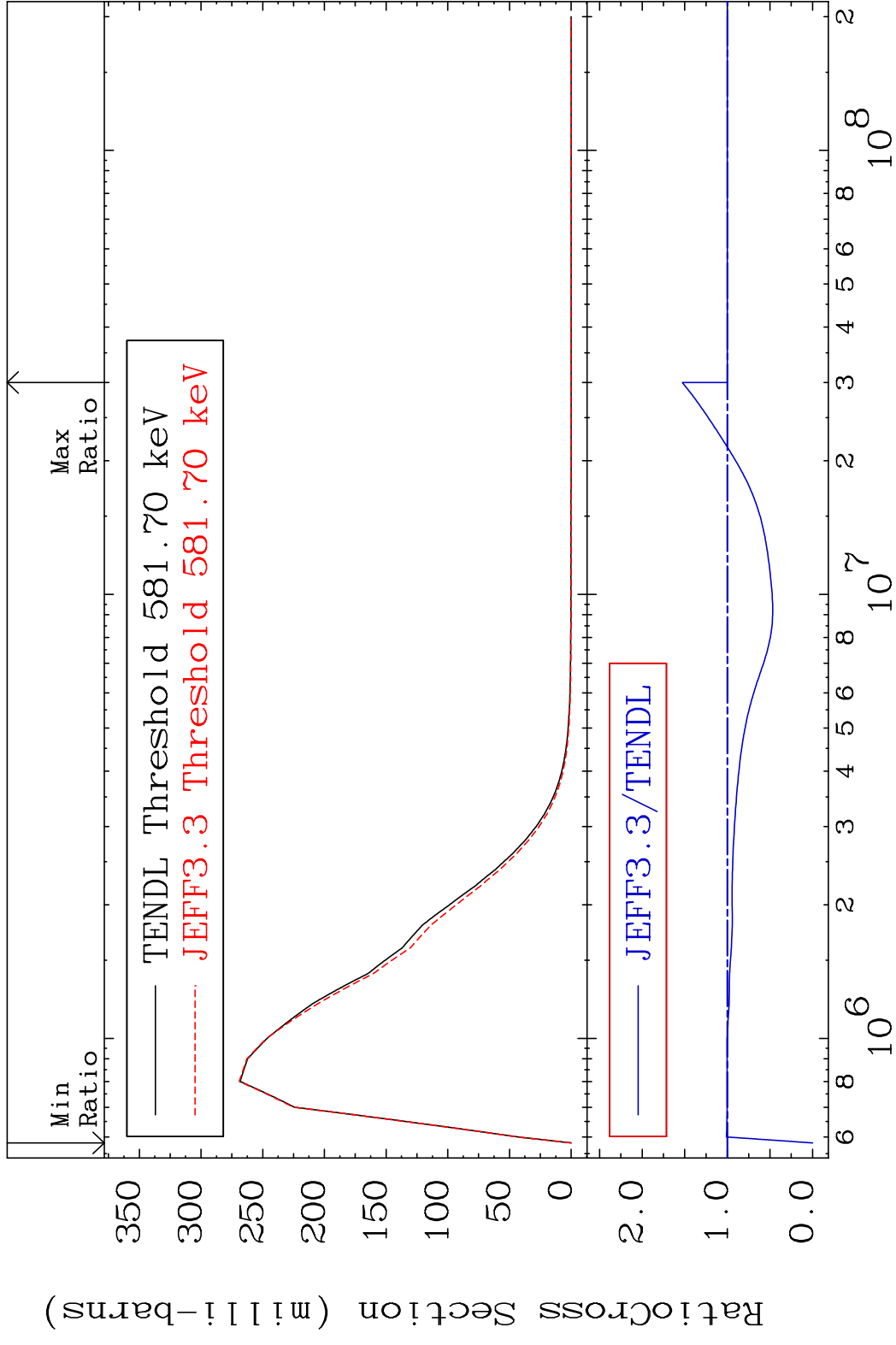
MAT 4434 MT= 53 (n, n') Level 44-Ru-99
 Cross Section -100.0 To 1.045 %



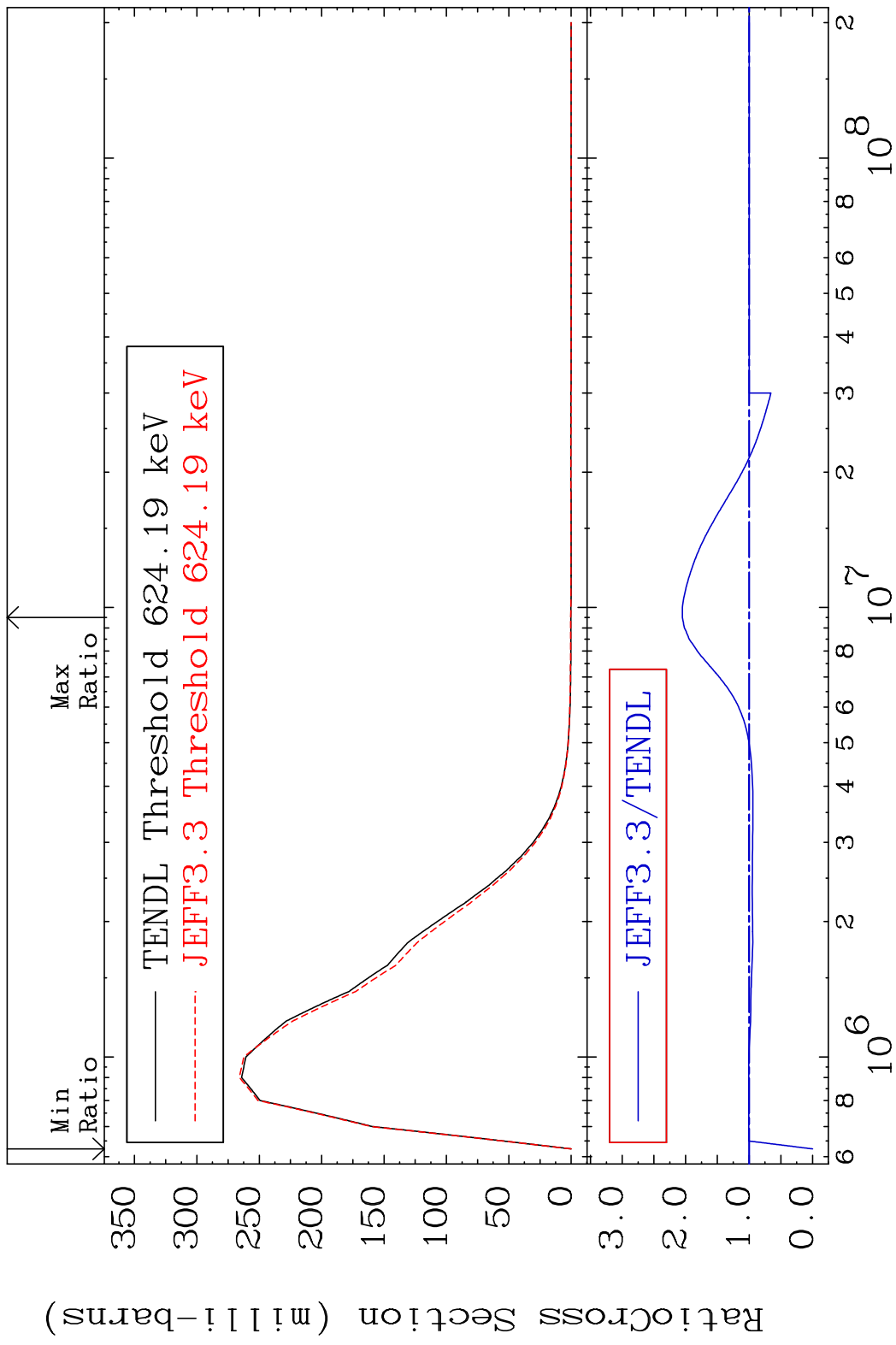
MAT 4434 MT= 54 (n, n') Level 44-Ru-99
 Cross Section -100.0 To 0.515 %



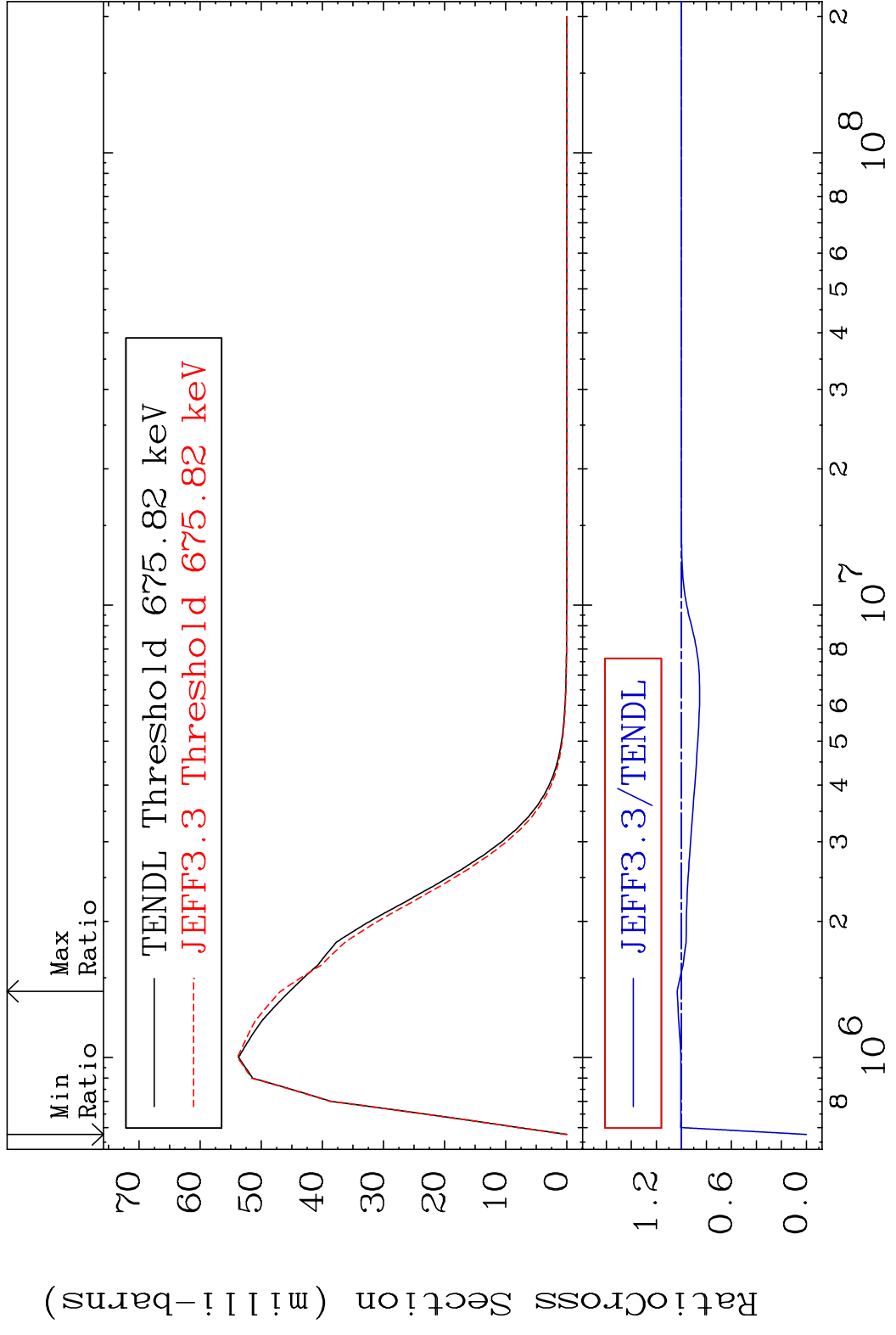
MAT 4434 MT= 55 (n,n') Level 44-Ru-99
 Cross Section -100.0 To 52.84 %



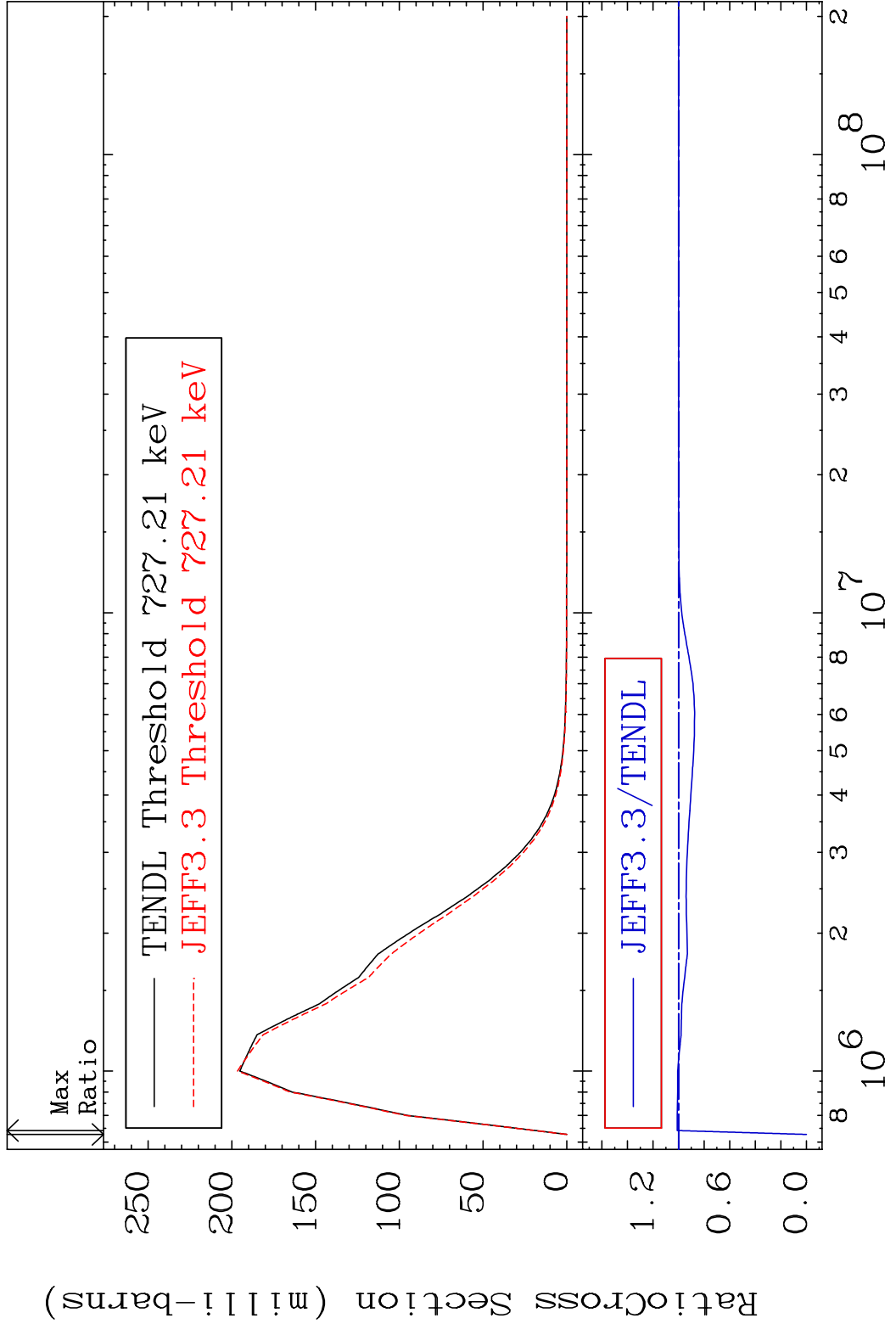
MAT 4434 MT= 56 (n, n') Level 44-Ru-99
 Cross Section -100.0 To 105.2 %



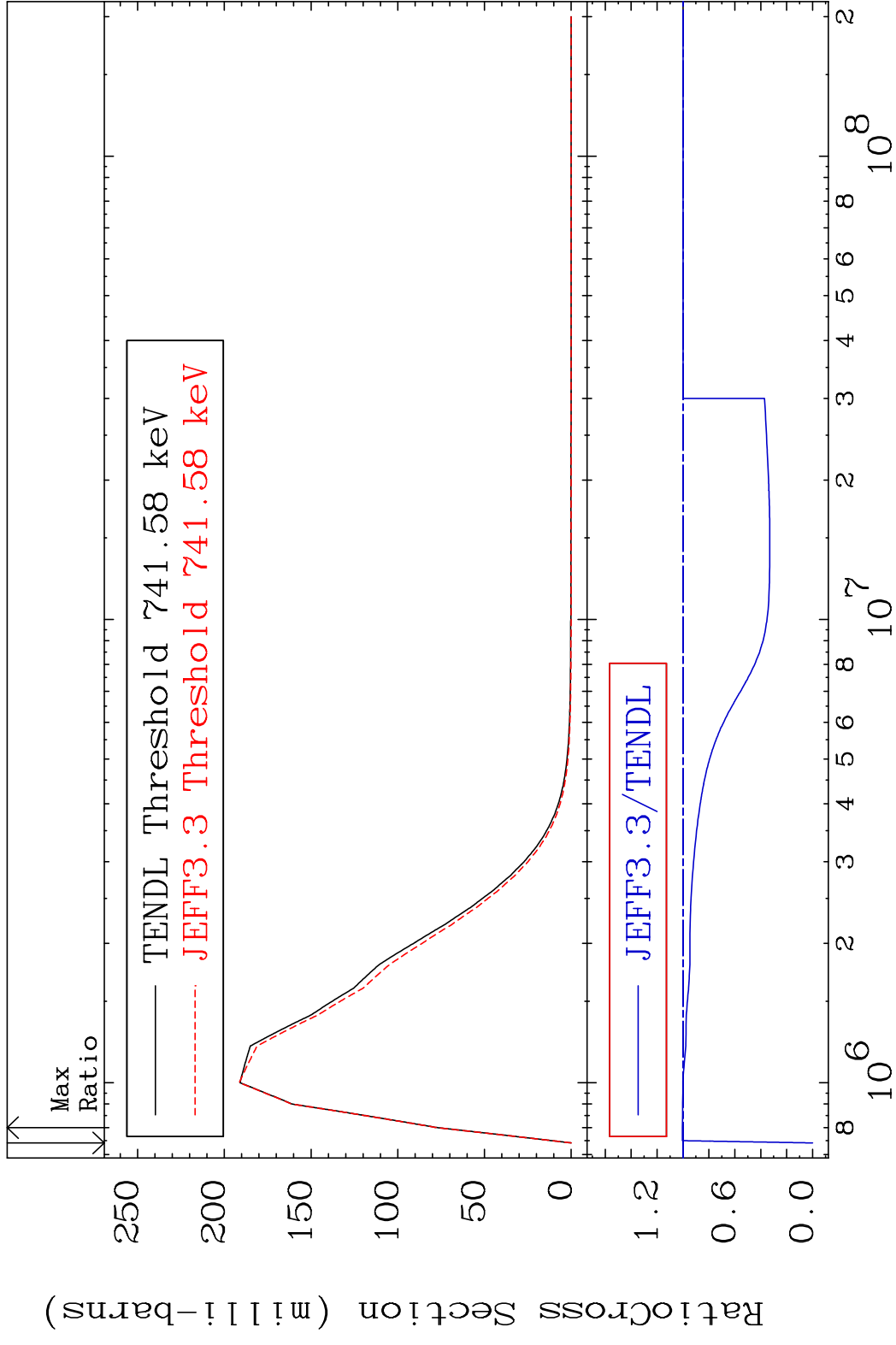
MAT 4434 MT= 57 (n,n') Level 44-Ru-99
 Cross Section -100.0 To 3.317 %



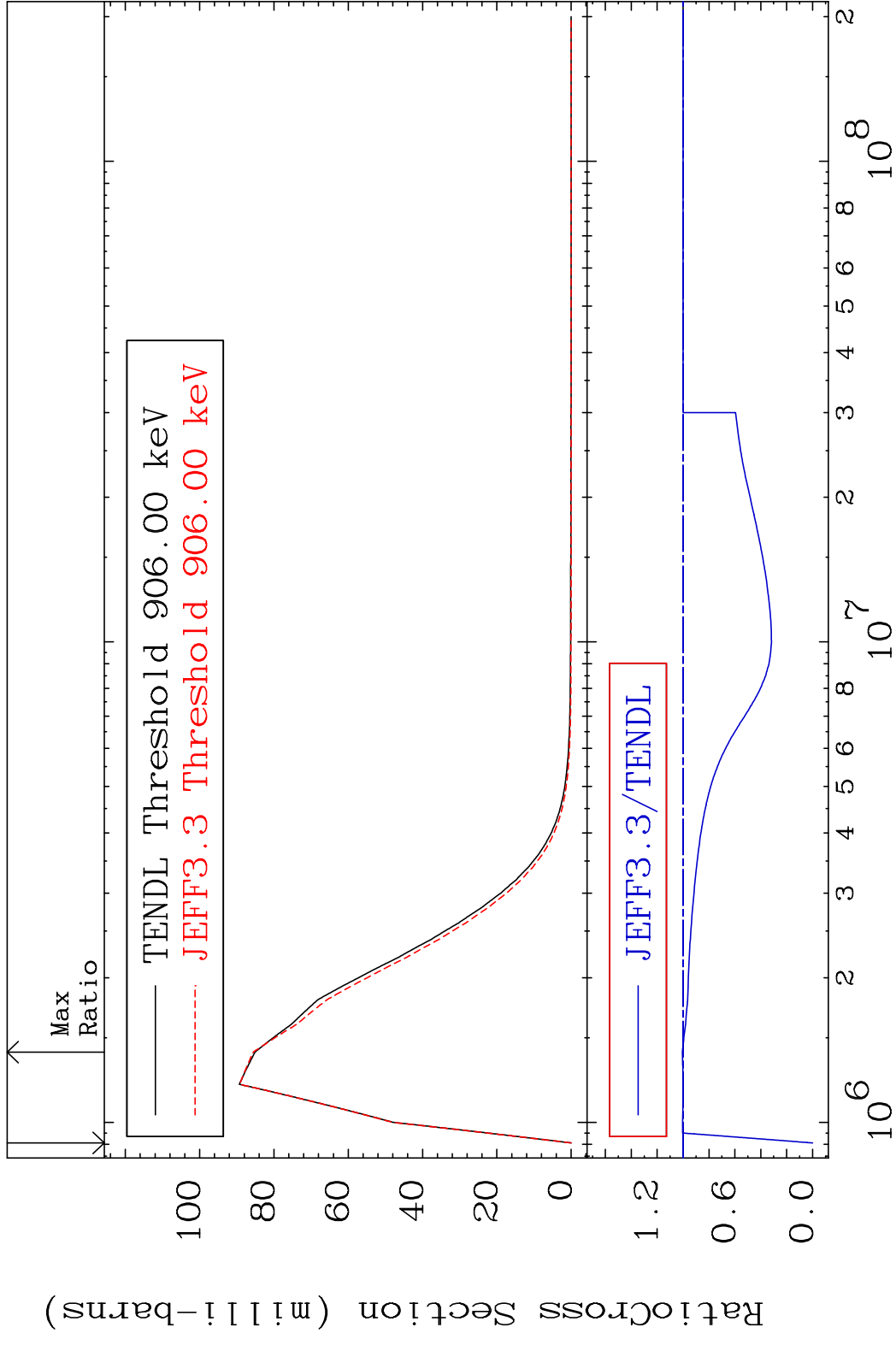
MAT 4434 MT= 58 (n, n') Level 44-Ru-99
 Cross Section -100.0 To 1.091 %



MAT 4434 MT= 59 (n, n') Level 44-Ru-99
 Cross Section -100.0 To 0.497 %

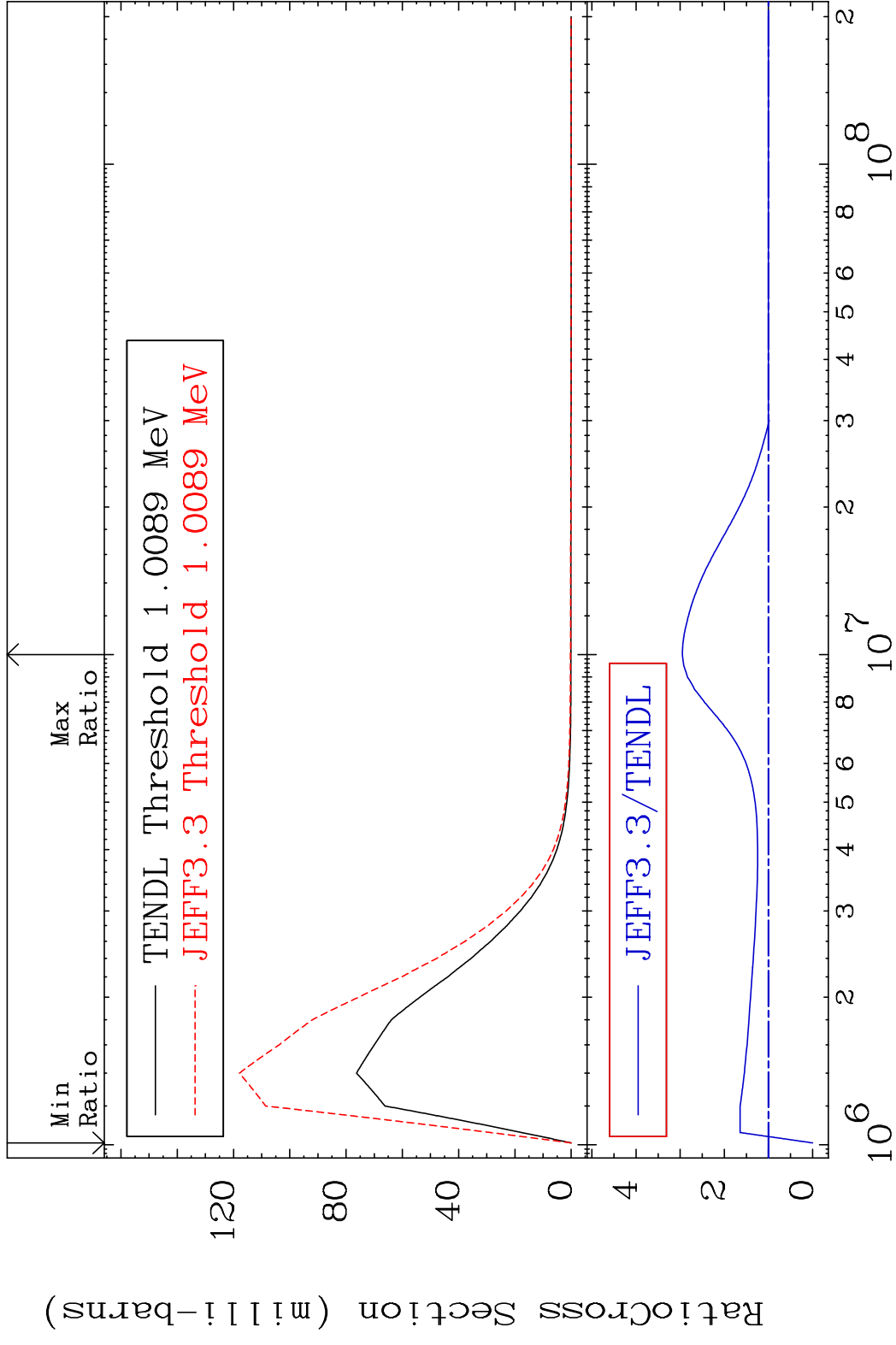


MAT 4434 MT= 60 (n,n') Level 44-Ru-99
 Cross Section -100.0 To 0.557 %



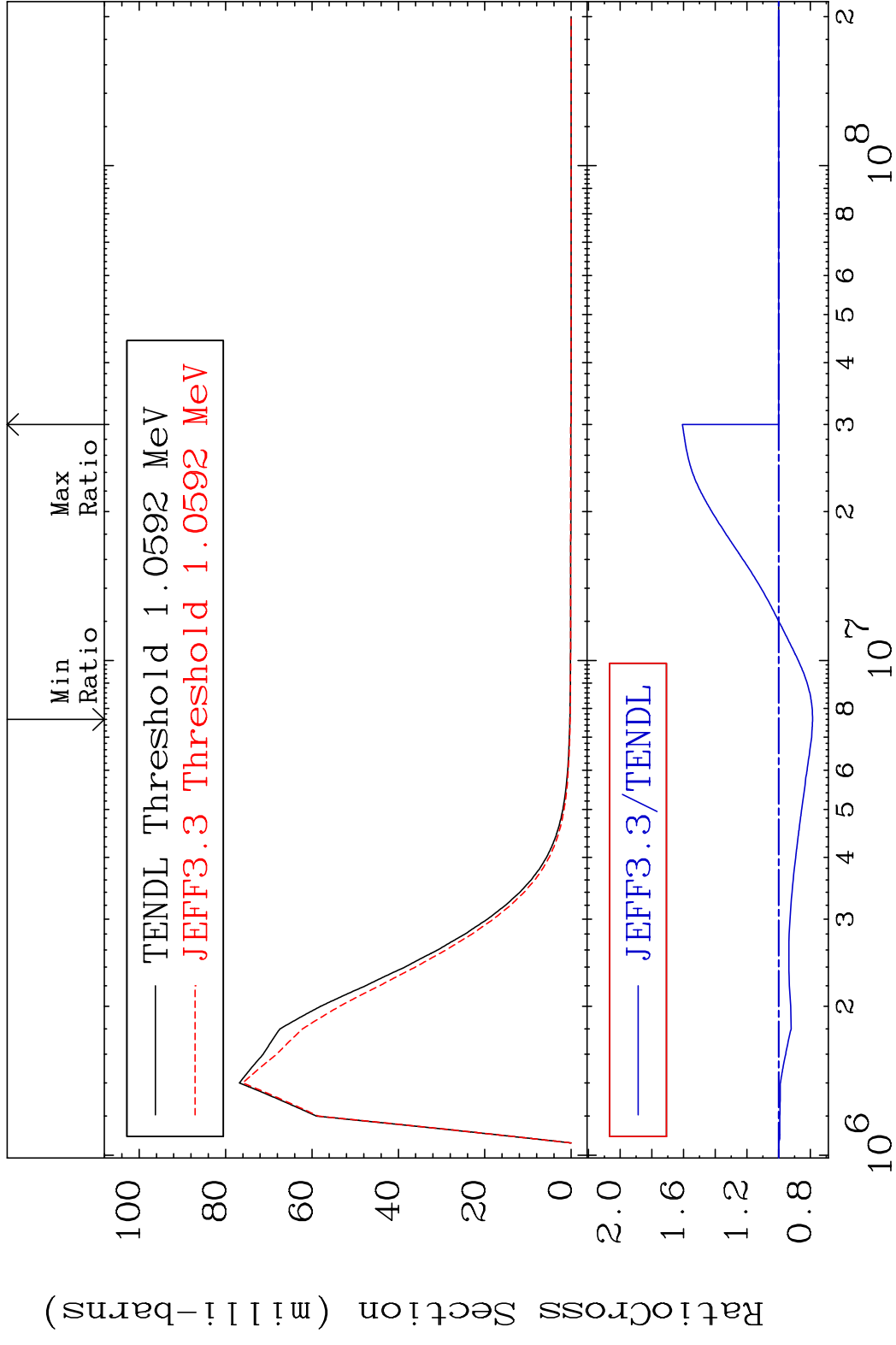
30 Incident Energy (eV) 44-Ru-99

MAT 4434 MT= 61 (n, n') Level 44-Ru-99
 Cross Section -100.0 To 195.1 %

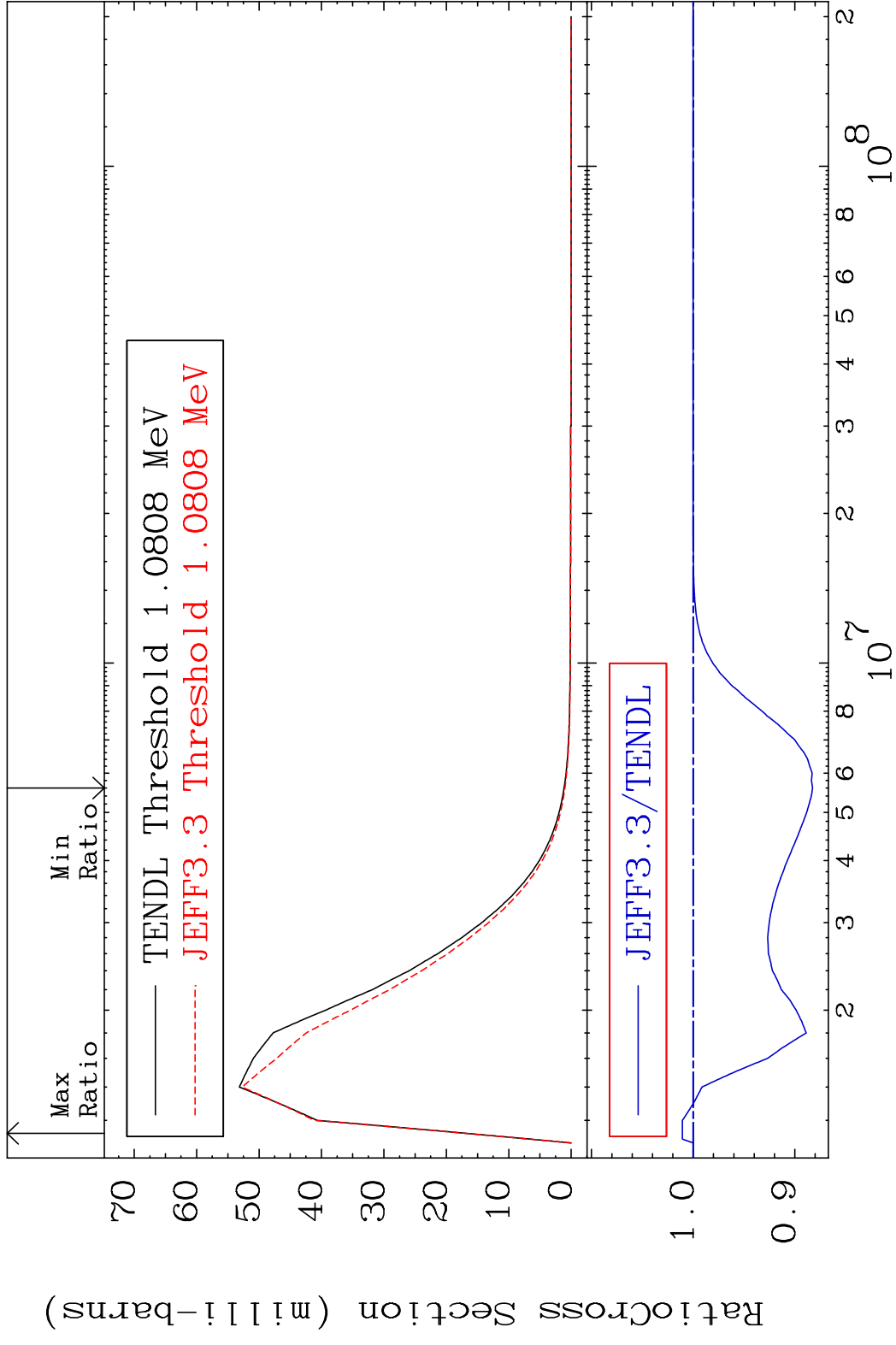


31 Incident Energy (eV) 44-Ru-99

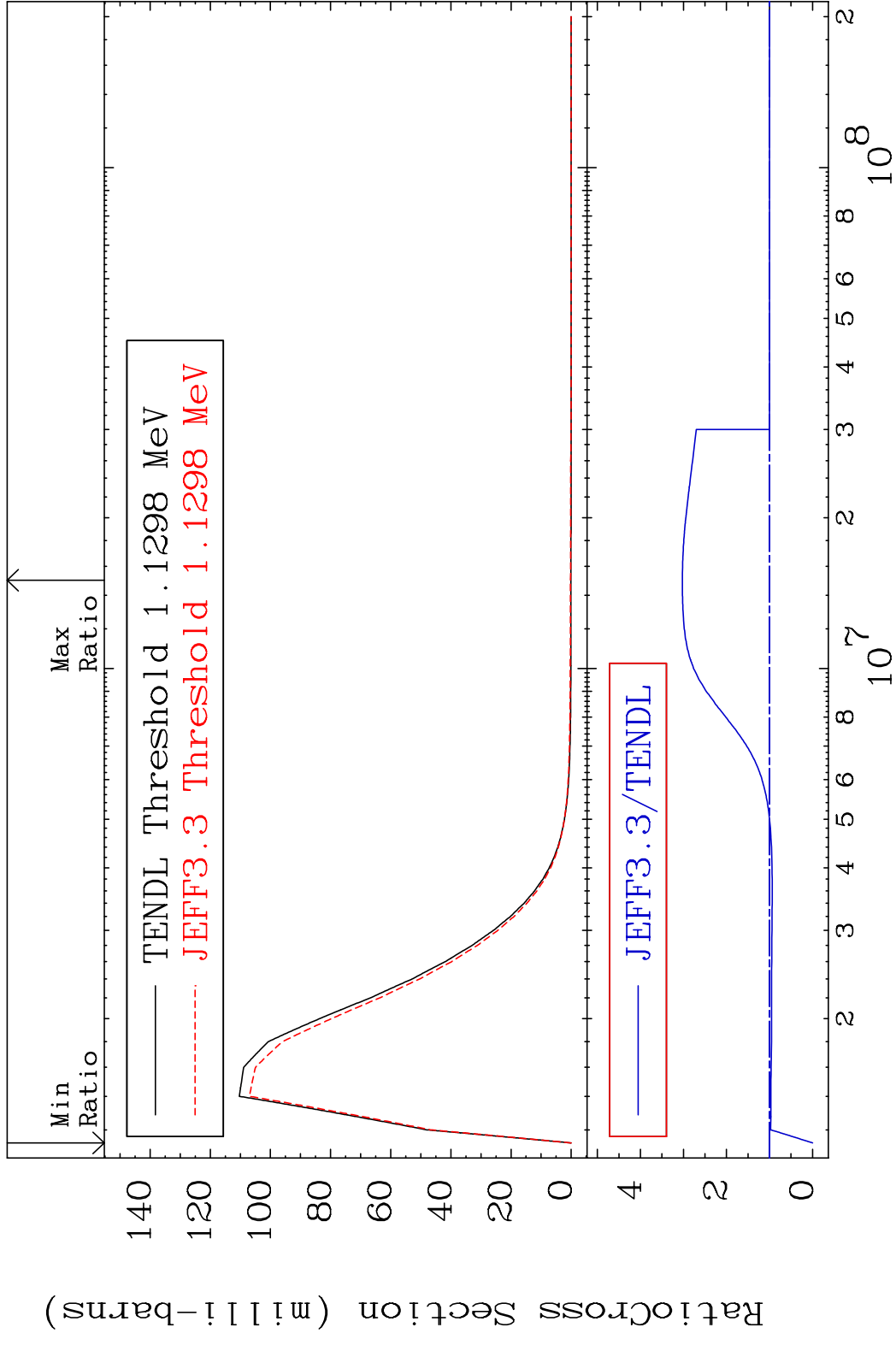
MAT 4434 MT= 62 (n, n') Level 44-Ru-99
 Cross Section -21.35 To 60.76 %



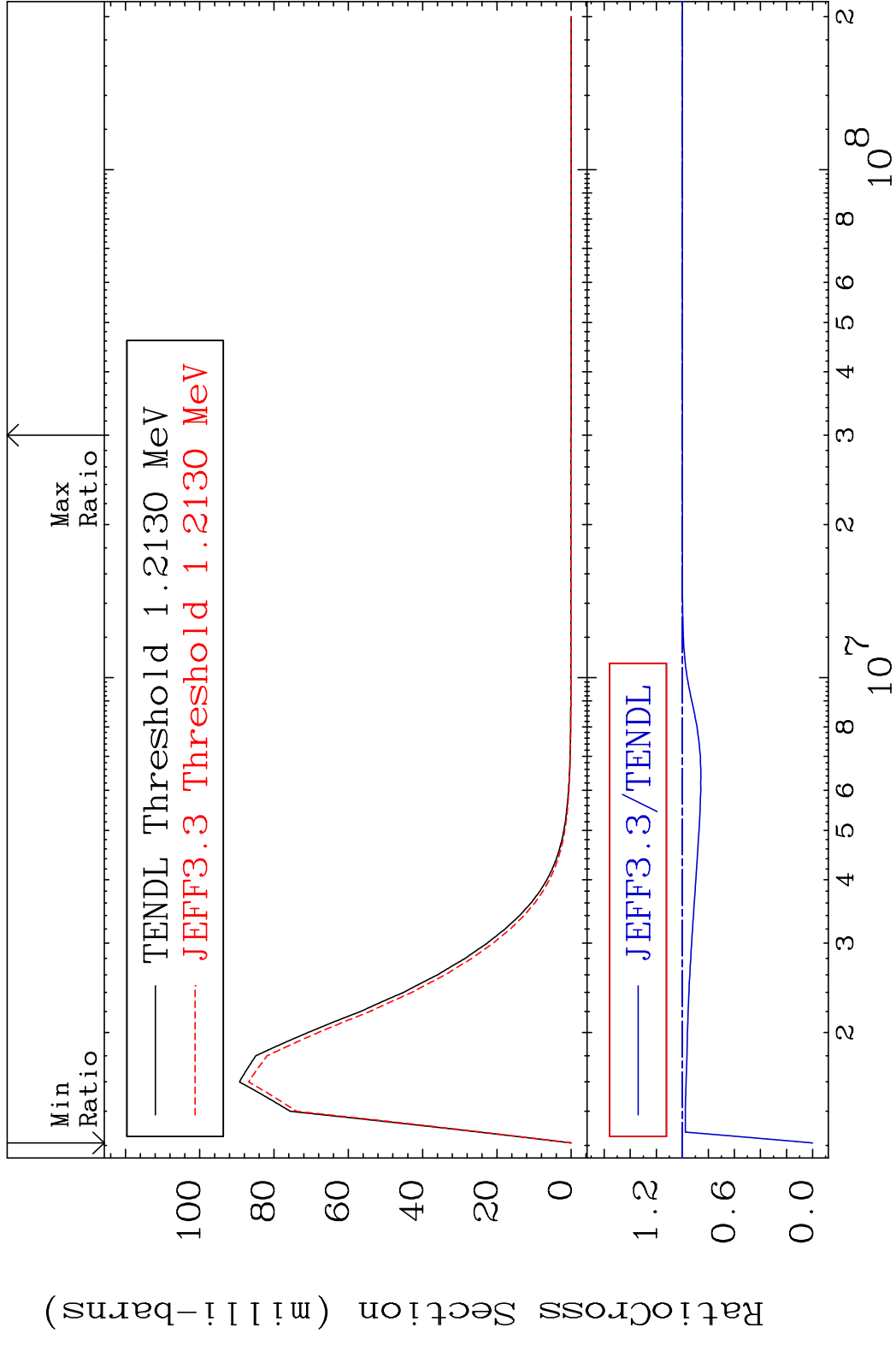
MAT 4434 MT= 63 (n,n') Level 44-Ru-99
 Cross Section -11.75 To 1.063 %



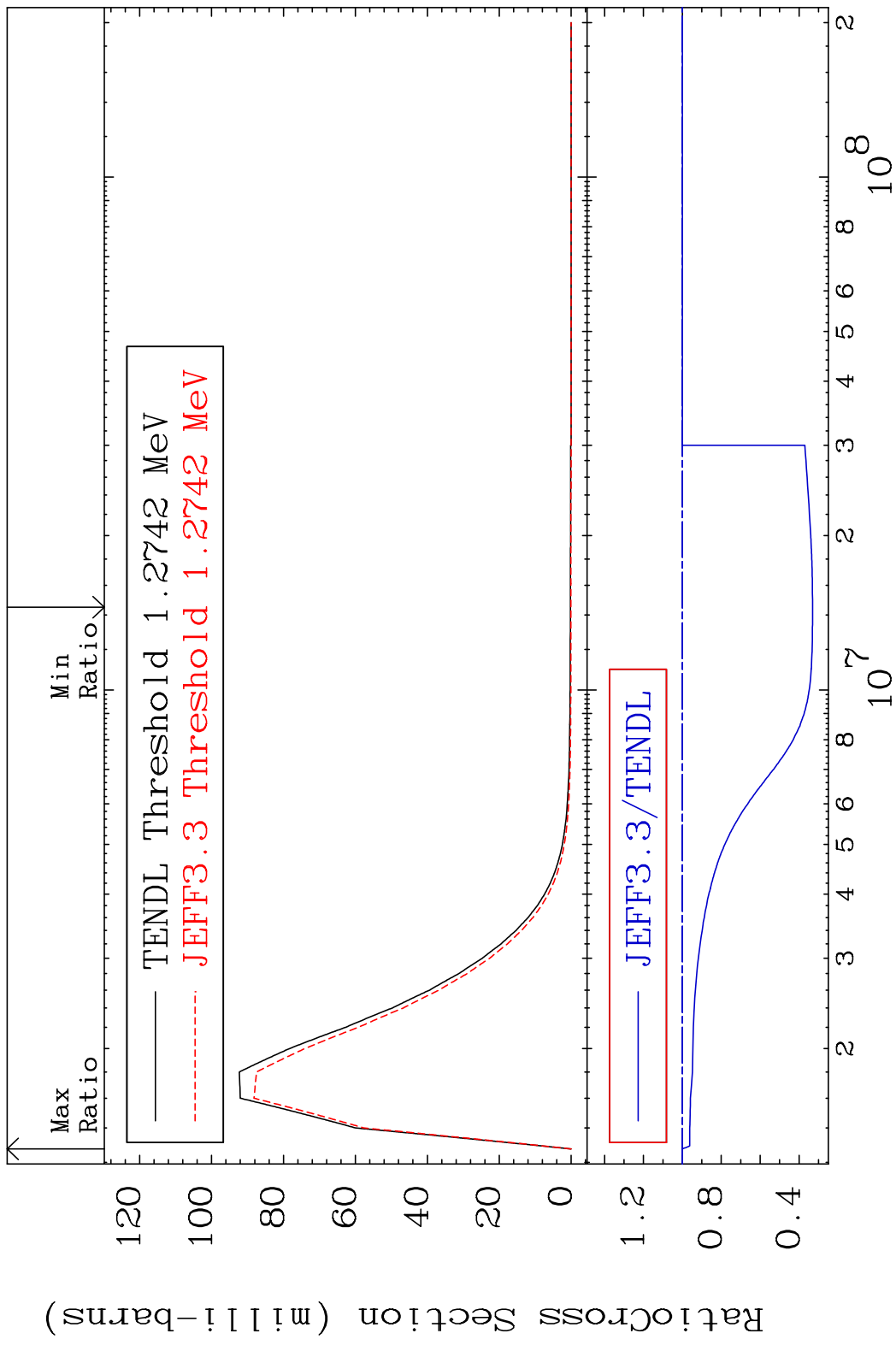
MAT 4434 MT= 64 (n, n') Level 44-Ru-99
 Cross Section -100.0 To 202.6 %



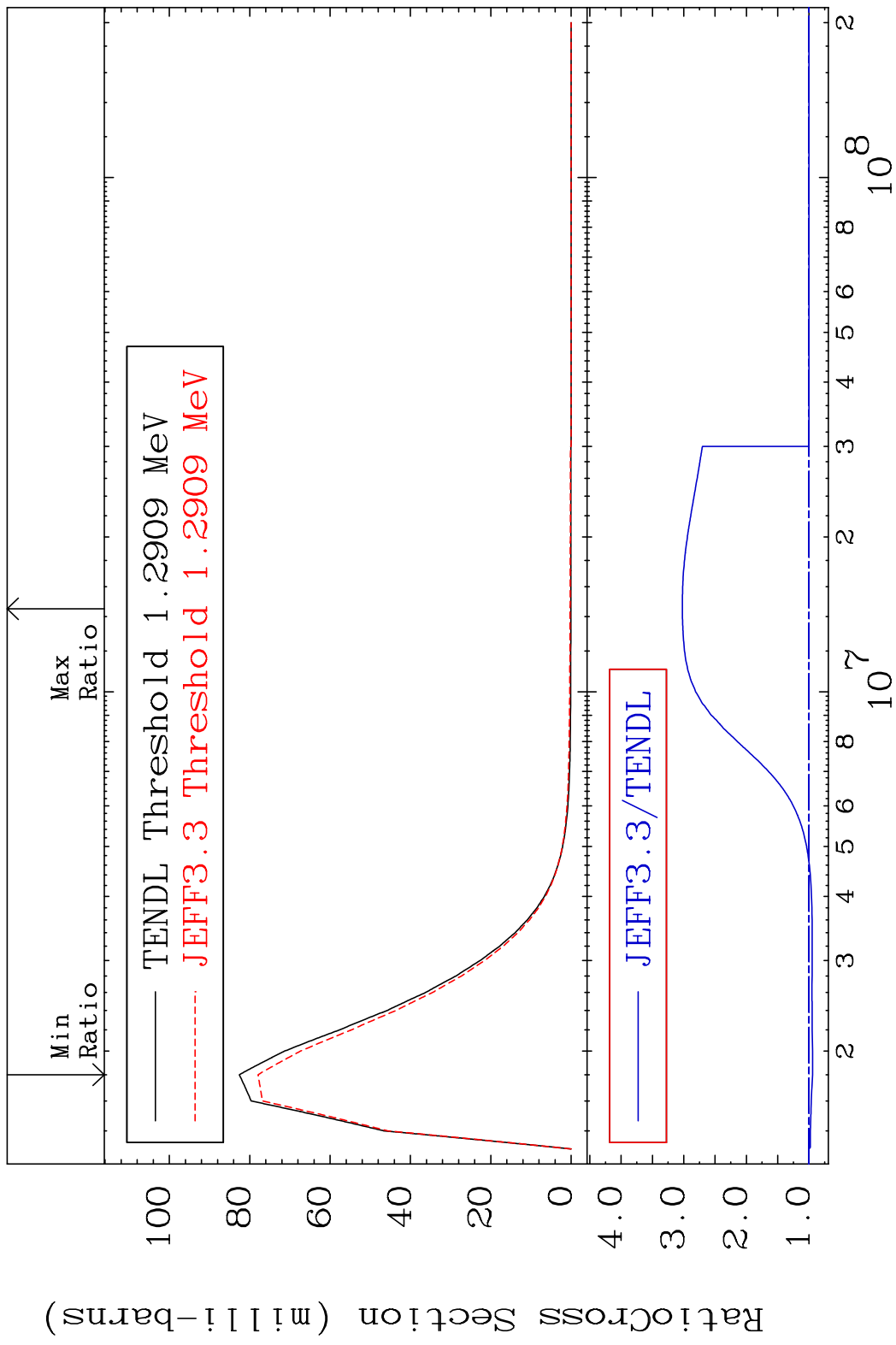
MAT 4434 MT= 65 (n, n') Level 44-Ru-99
 Cross Section -100.0 To 0.000 %



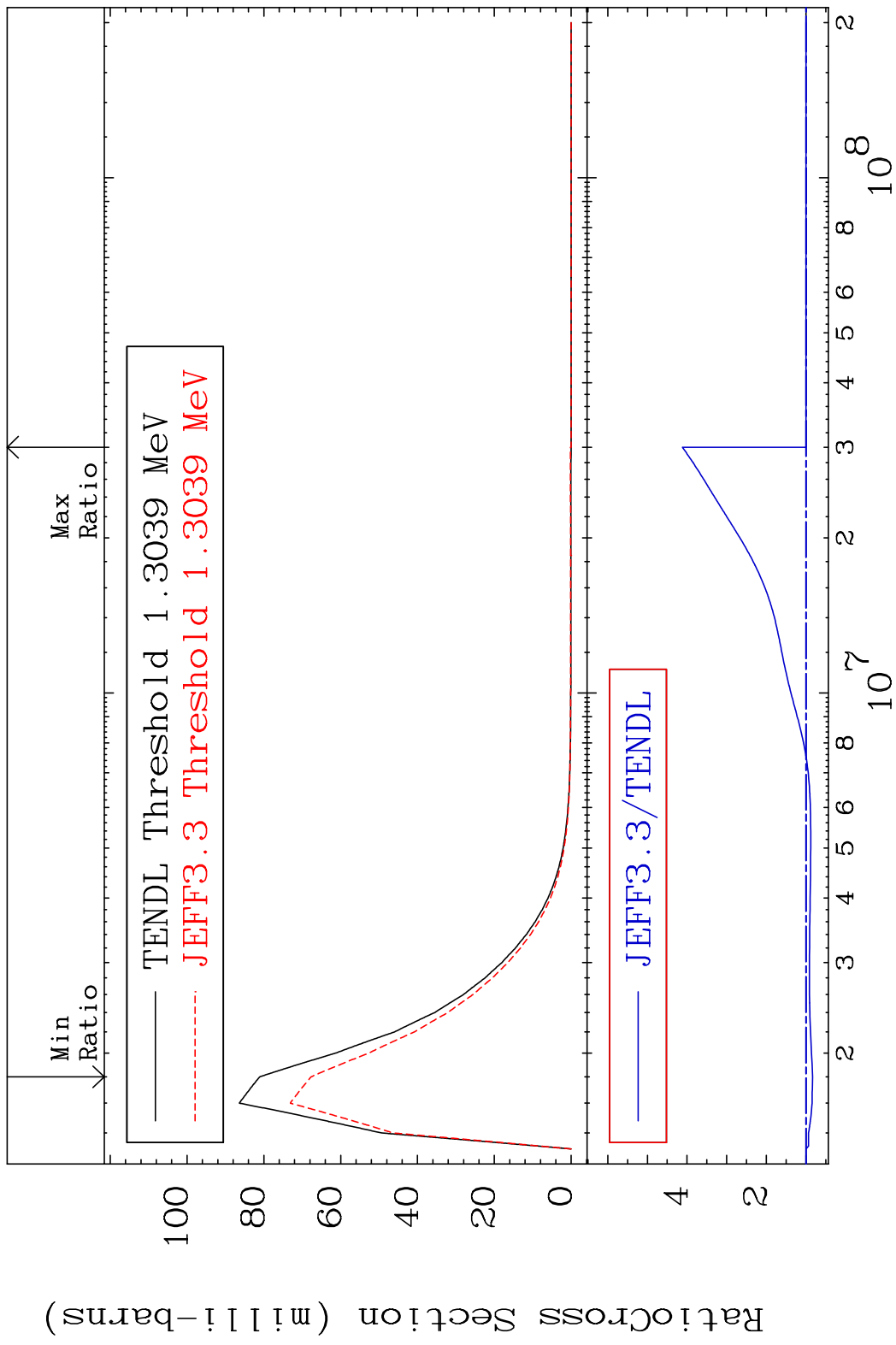
MAT 4434 MT= 66 (n,n') Level 44-Ru-99
 Cross Section -66.95 To 0.000 %



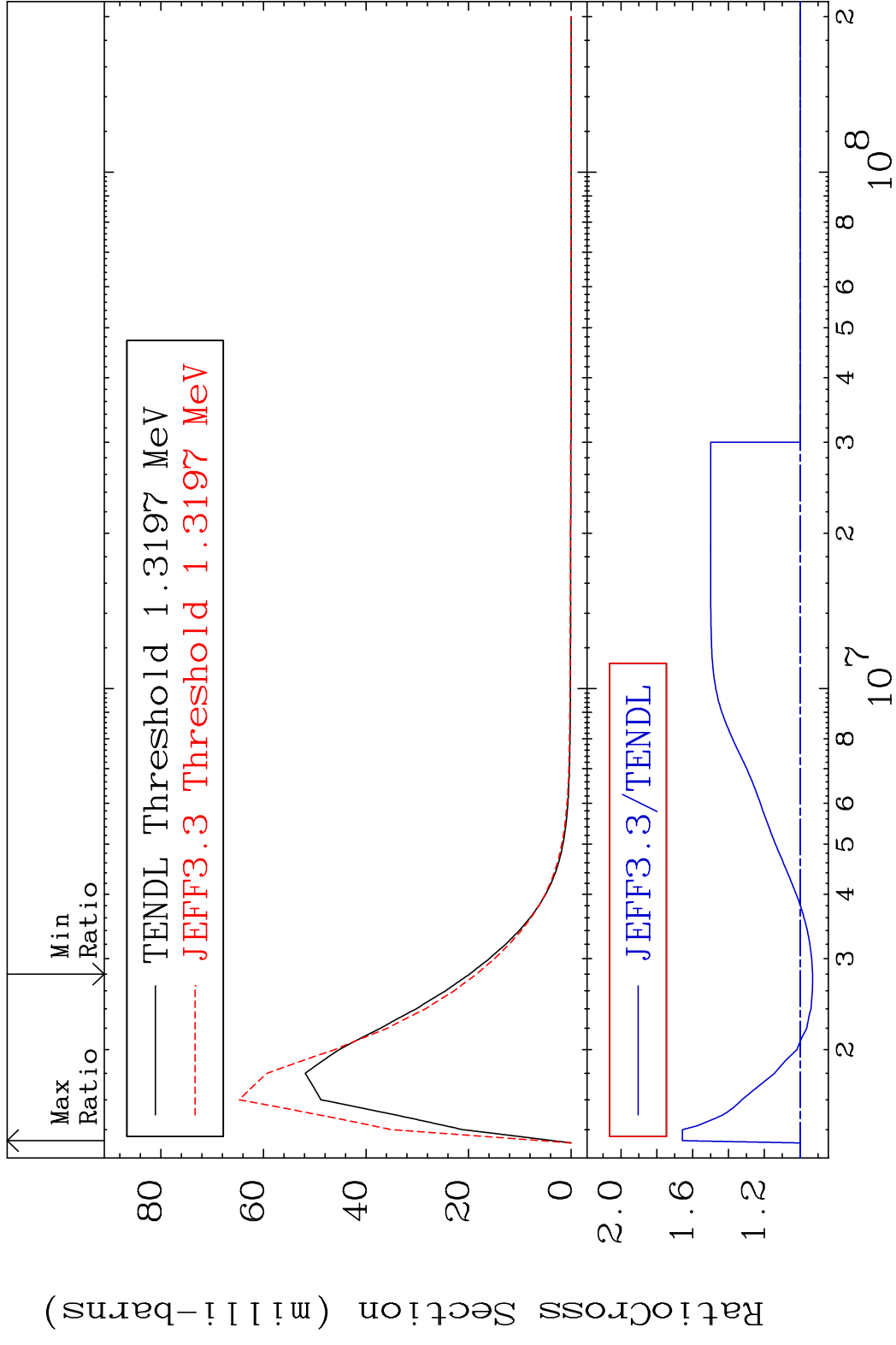
MAT 4434 MT= 67 (n, n') Level 44-Ru-99
 Cross Section -5.641 To 202.2 %



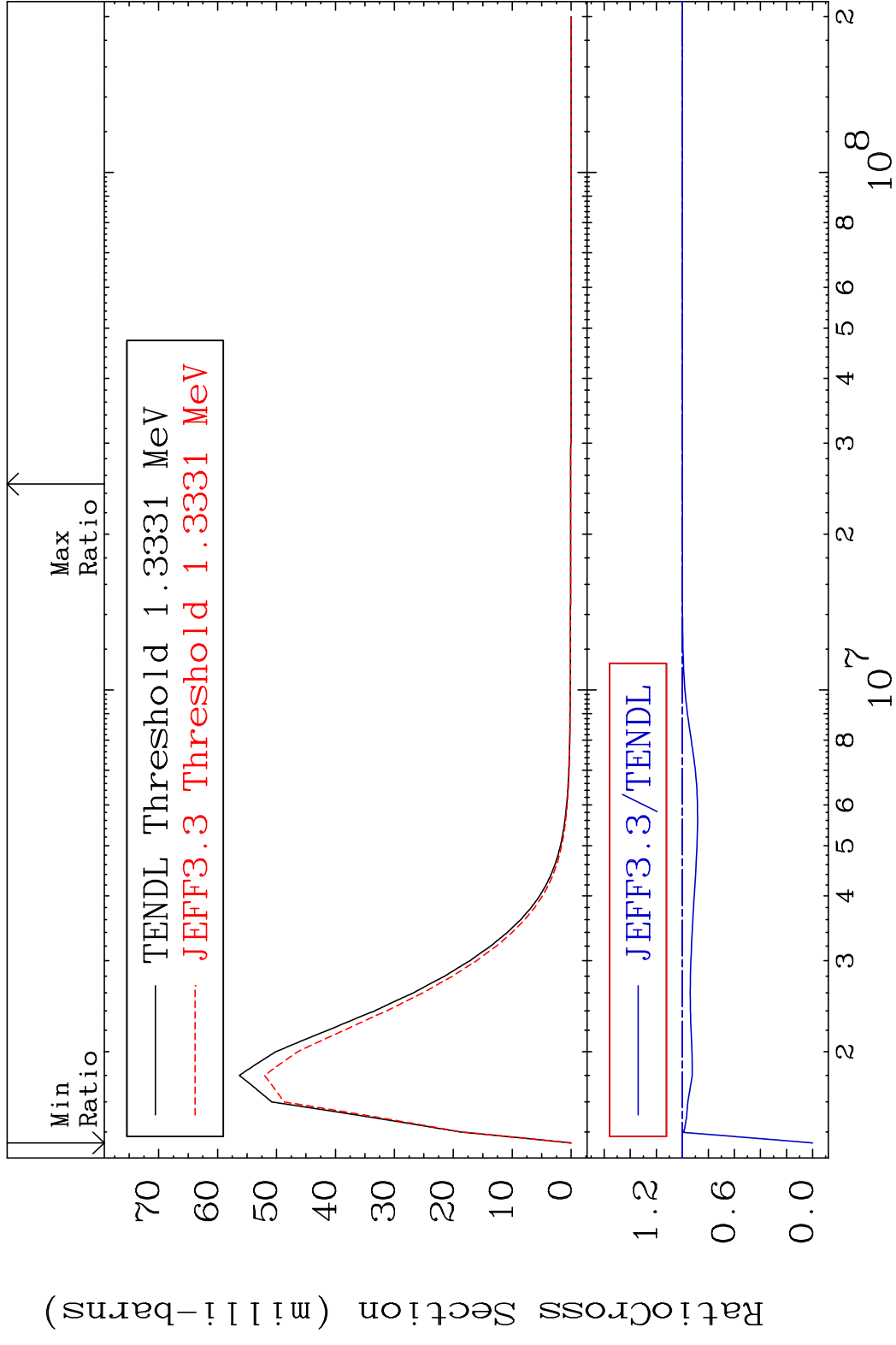
MAT 4434 MT= 68 (n, n') Level 44-Ru-99
 Cross Section -16.51 To 311.8 %



MAT 4434 MT= 69 (n, n') Level 44-Ru-99
 Cross Section -6.892 To 65.74 %

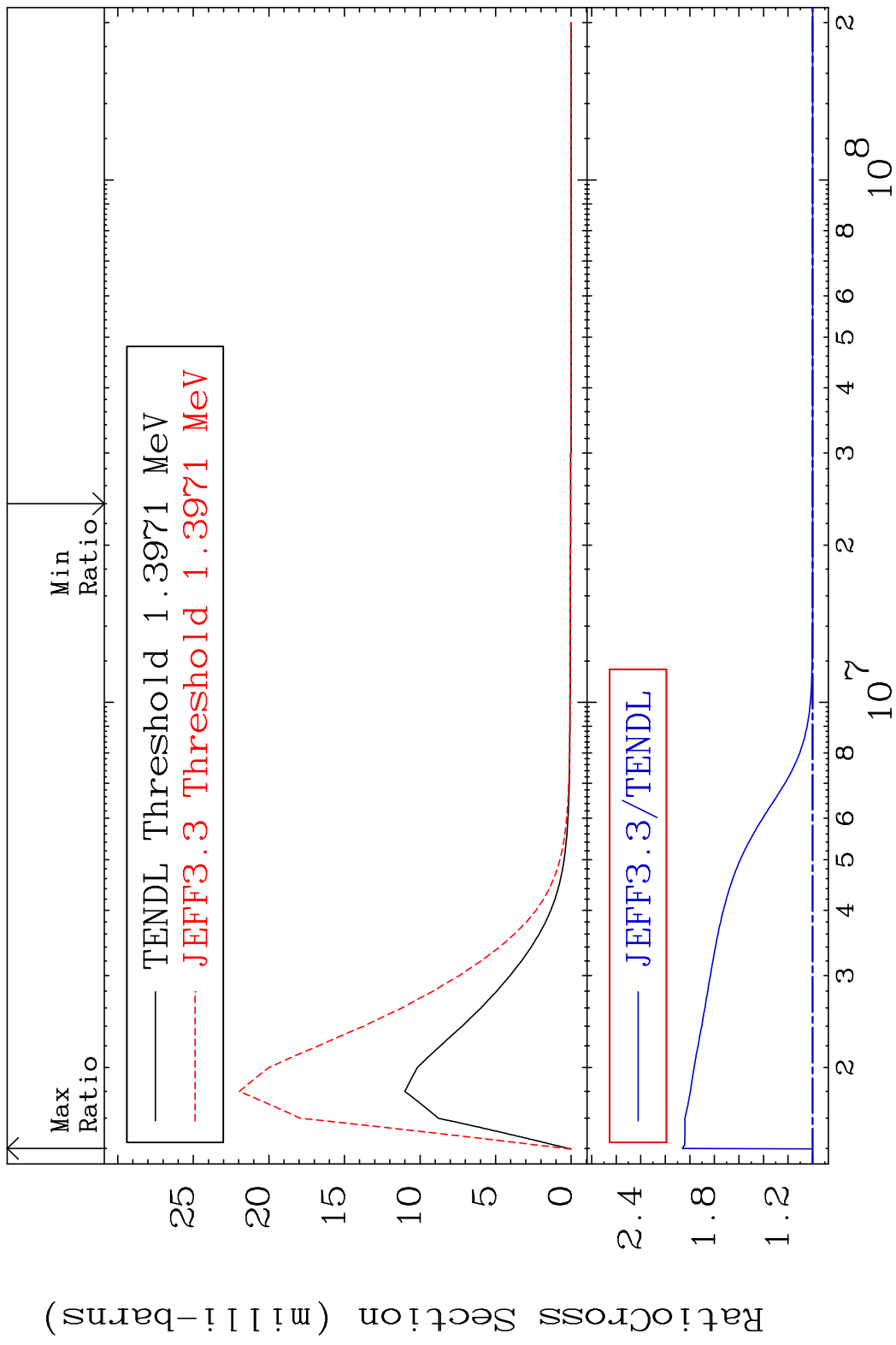


MAT 4434 MT= 70 (n, n') Level 44-Ru-99
 Cross Section -100.0 To 0.000 %

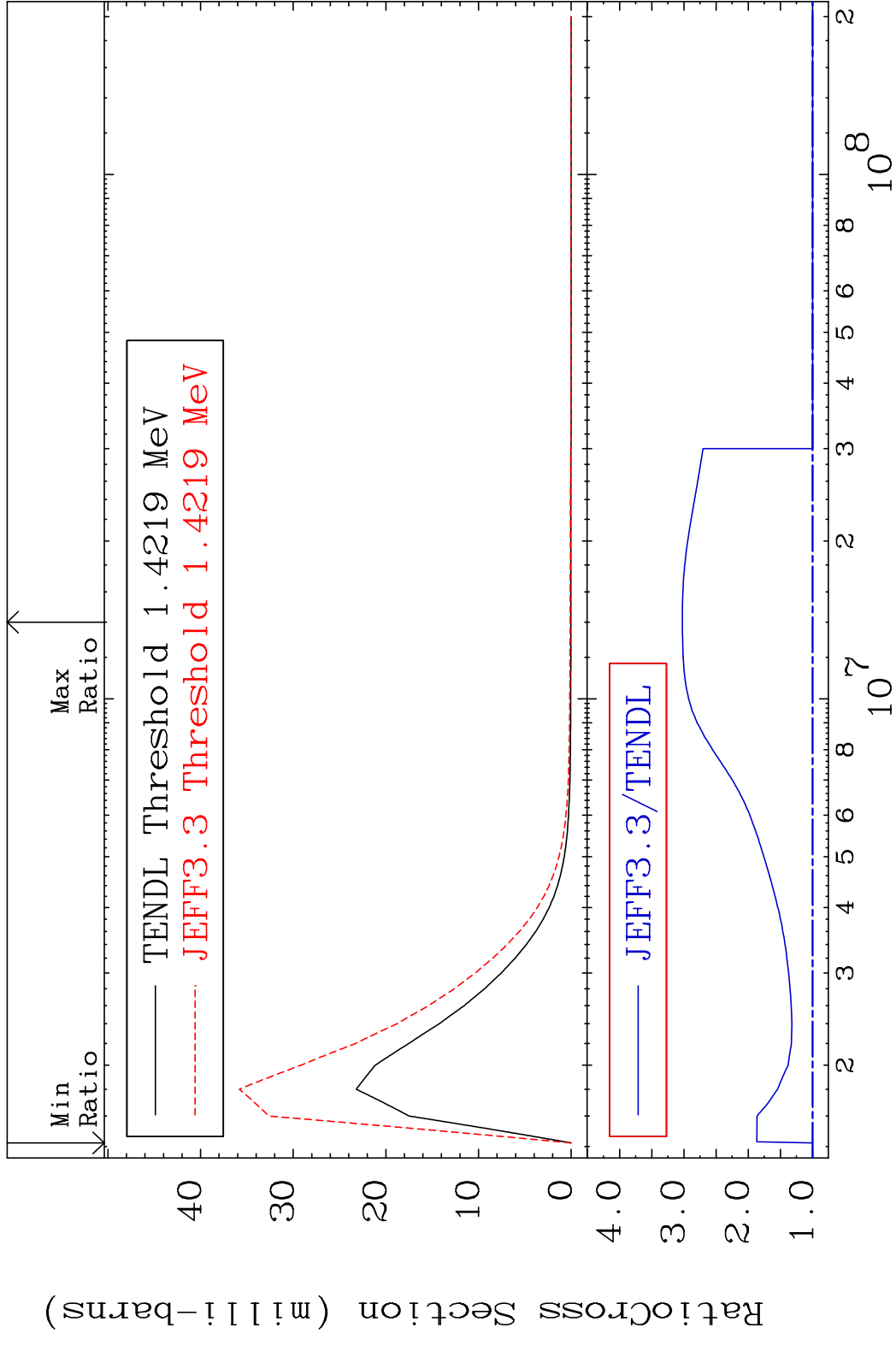


40 Incident Energy (eV) 44-Ru-99

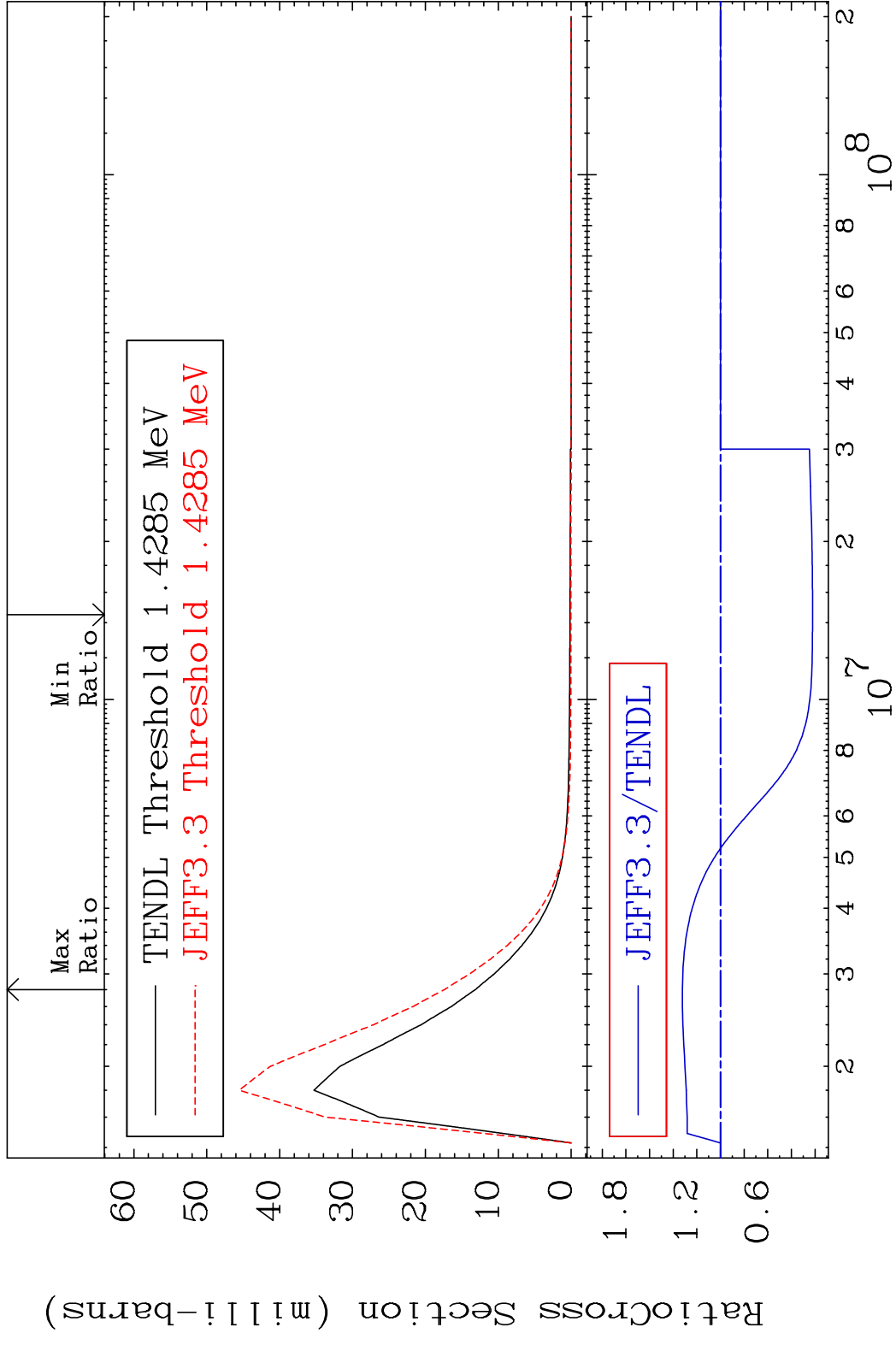
MAT 4434 MT= 71 (n, n') Level 44-Ru-99
 Cross Section 0.000 To 106.1 %



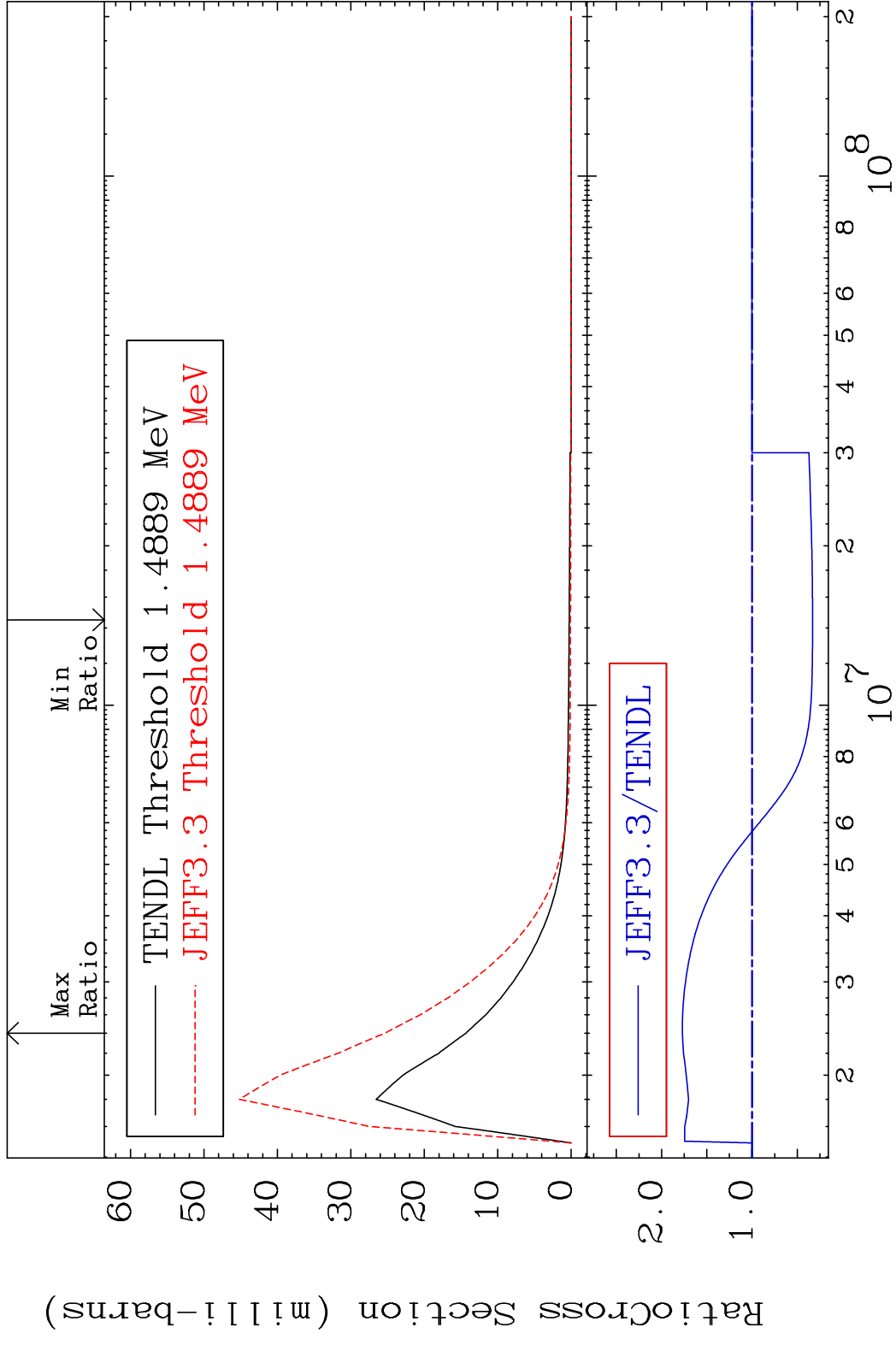
MAT 4434 MT= 72 (n,n') Level 44-Ru-99
 Cross Section 0.000 To 202.4 %



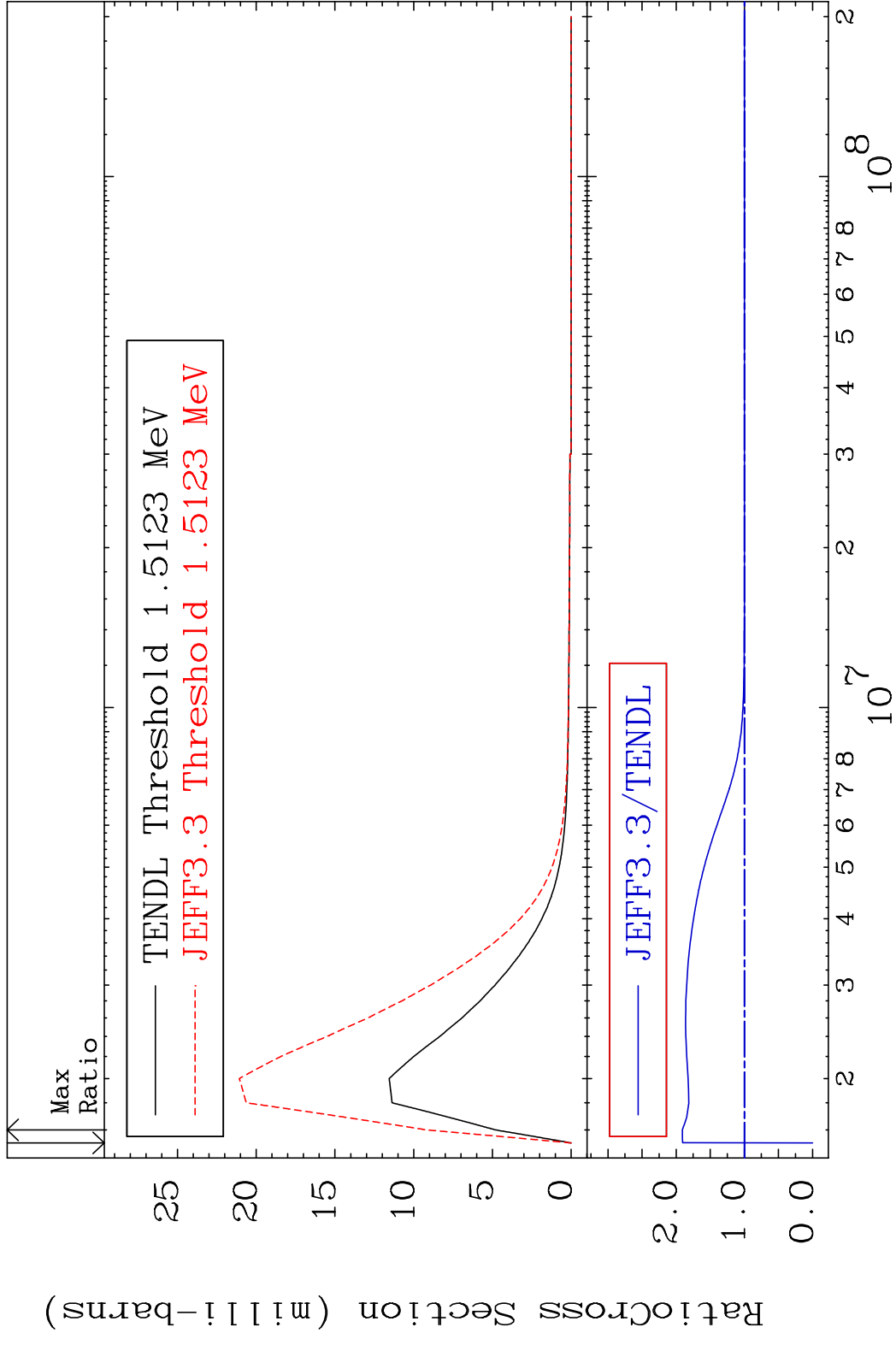
MAT 4434 MT= 73 (n, n') Level 44-Ru-99
 Cross Section -77.92 To 32.23 %



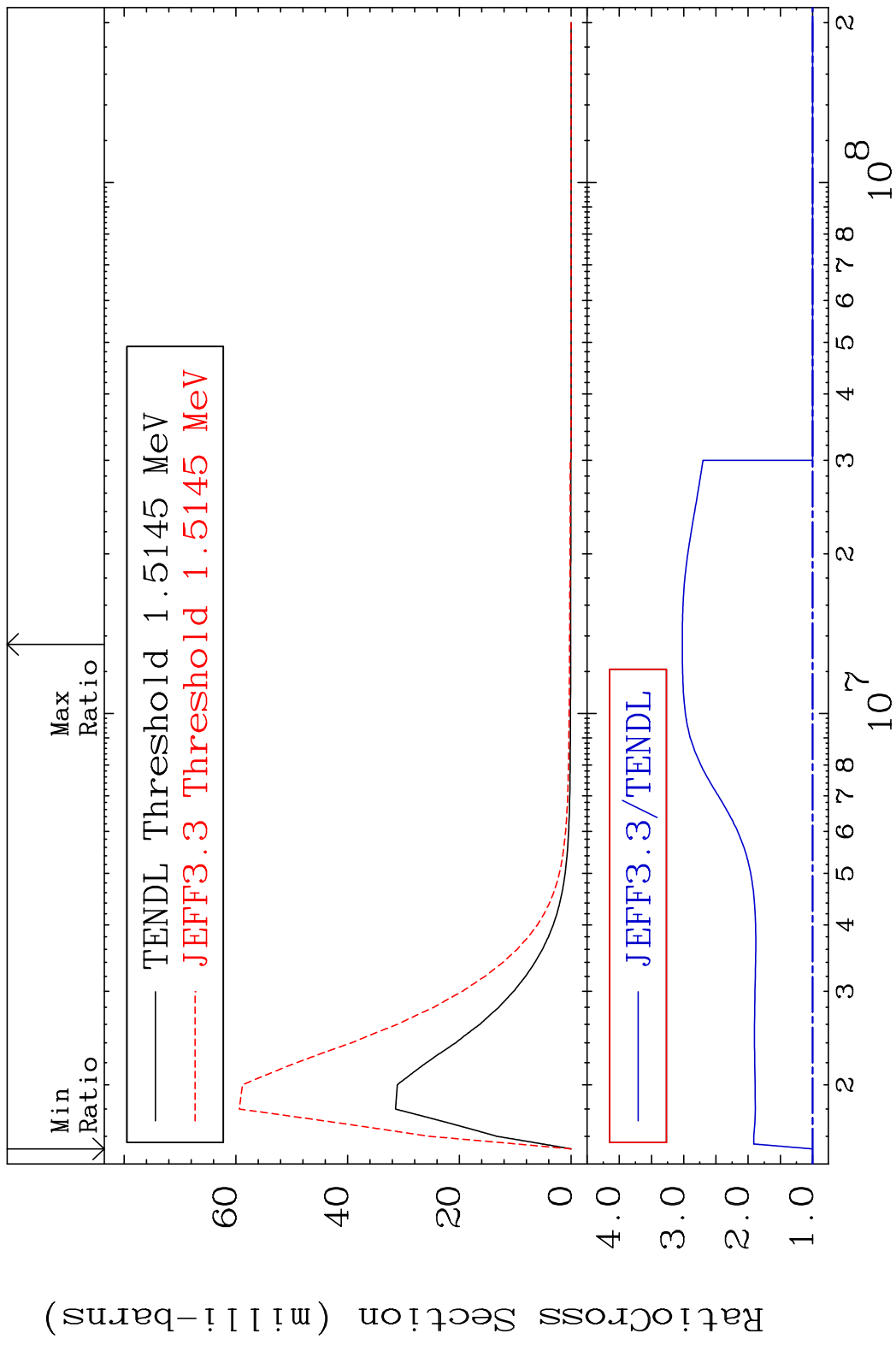
MAT 4434 MT= 74 (n,n') Level 44-Ru-99
 Cross Section -66.87 To 77.04 %



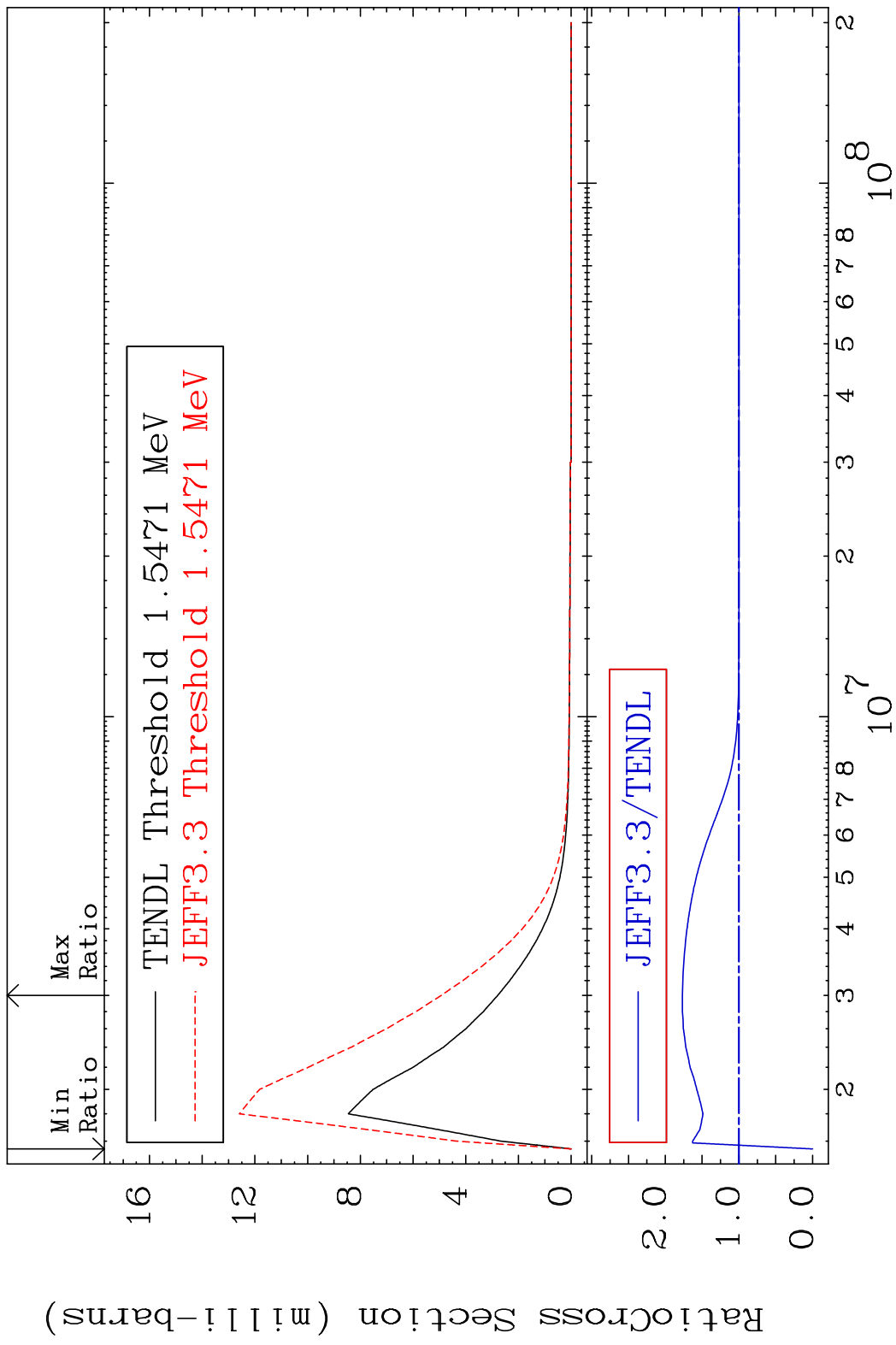
MAT 4434 MT= 75 (n, n') Level 44-Ru-99
 Cross Section -100.0 To 90.92 %



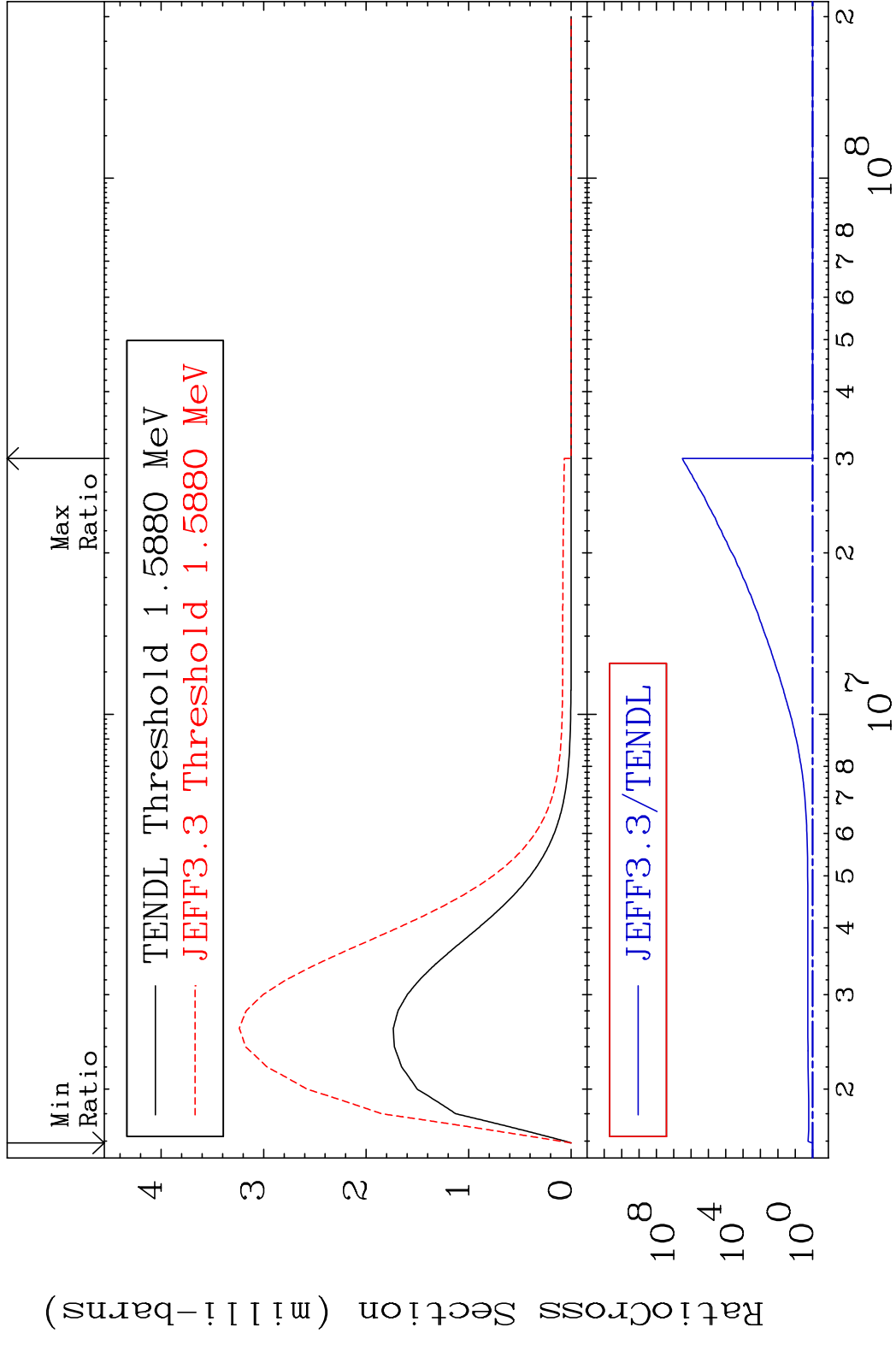
MAT 4434 MT= 76 (n,n') Level 44-Ru-99
 Cross Section 0.000 To 202.1 %



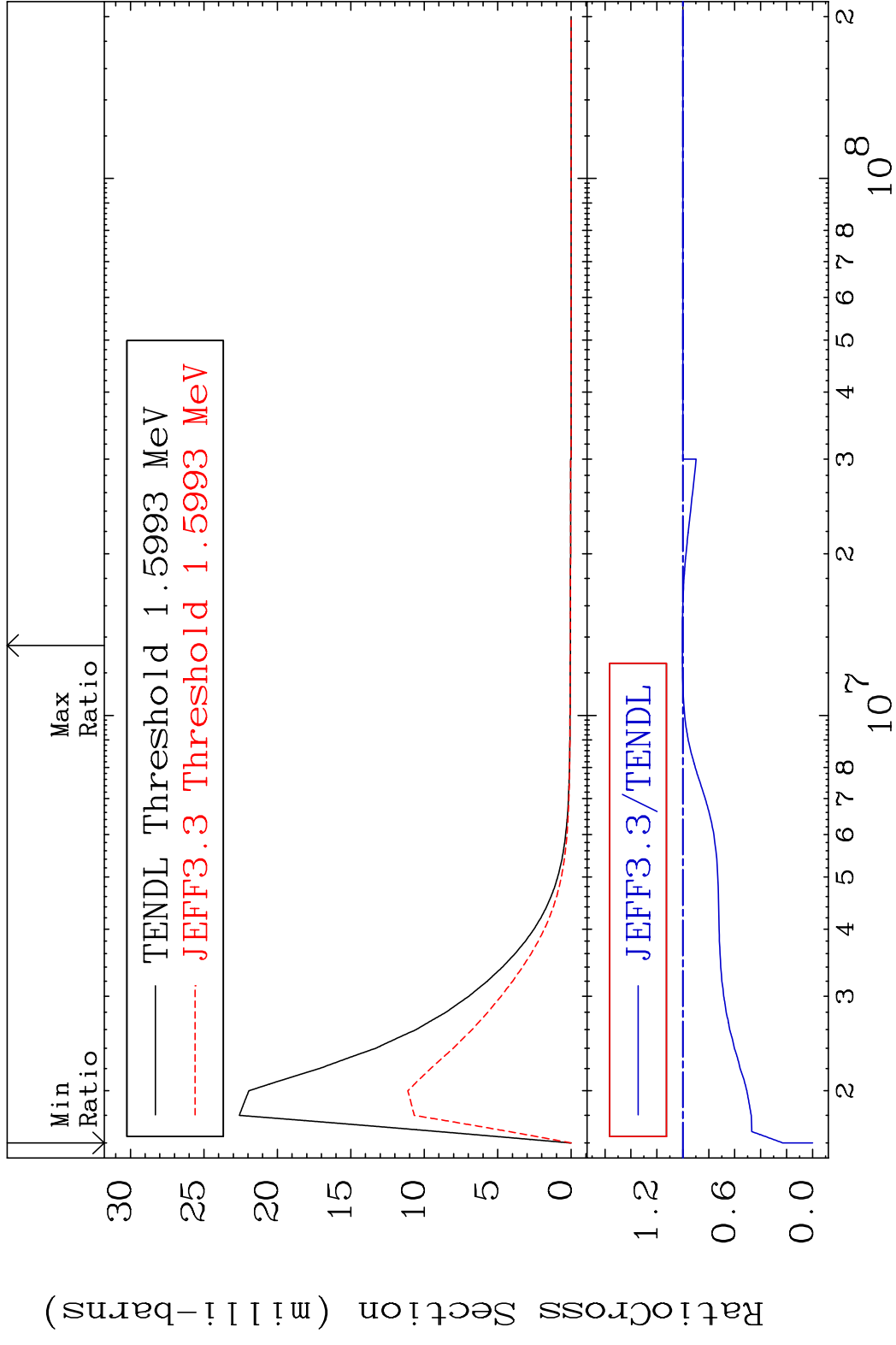
MAT 4434 MT= 77 (n,n') Level 44-Ru-99
 Cross Section -100.0 To 76.83 %



MAT 4434 MT= 78 (n, n') Level 44-Ru-99
 Cross Section 0.000 To 9999. %



MAT 4434 MT= 79 (n,n') Level 44-Ru-99
 Cross Section -100.0 To 0.366 %

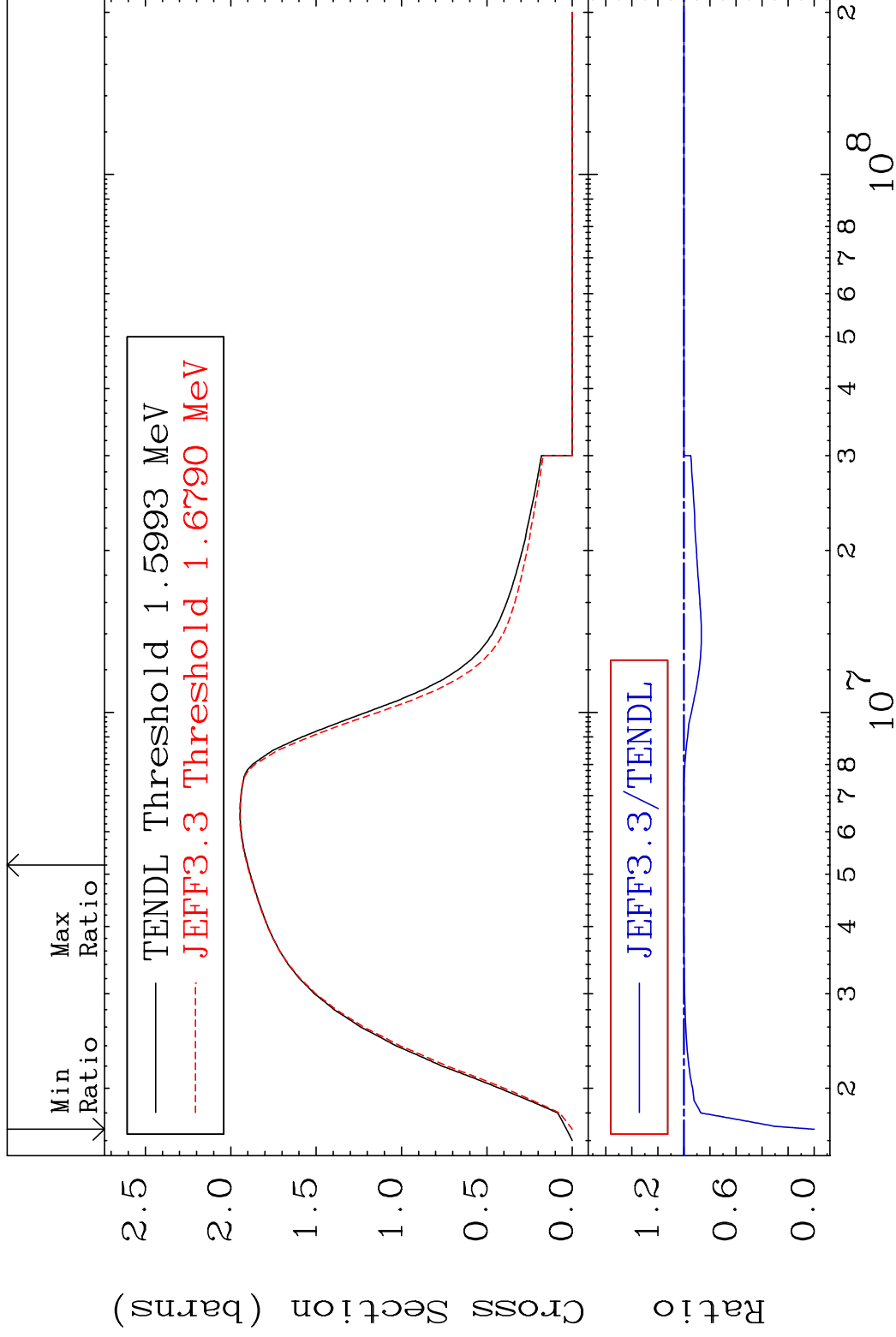


MAT 4434

(n, n') Continuum

44-Ru-99

Cross Section -100.0 To 0.175 %



50

Incident Energy (eV)

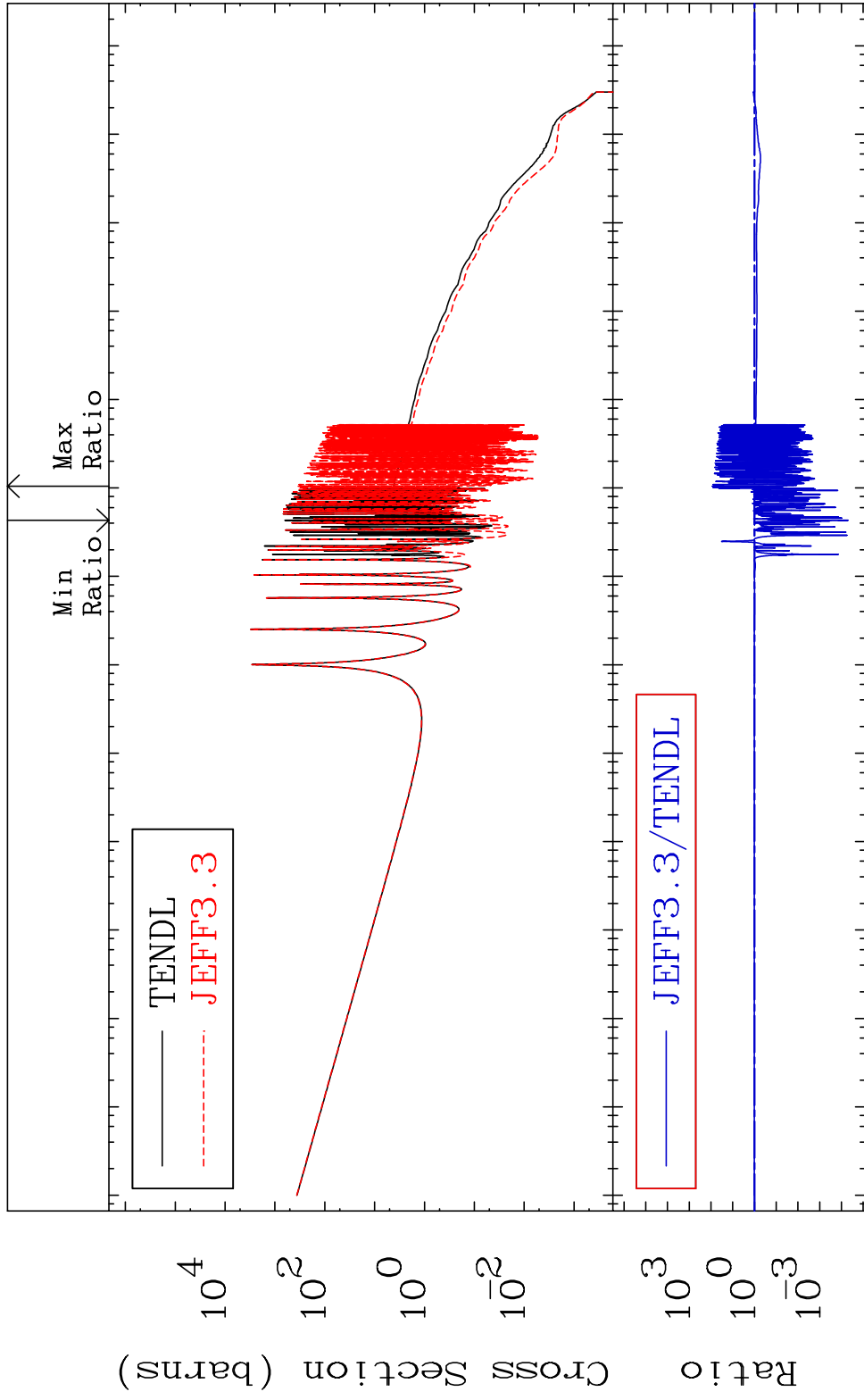
44-Ru-99

MAT 4434

(n, γ)

44-Ru-99

Cross Section -100.0 To 8543. %



51

Incident Energy (eV)

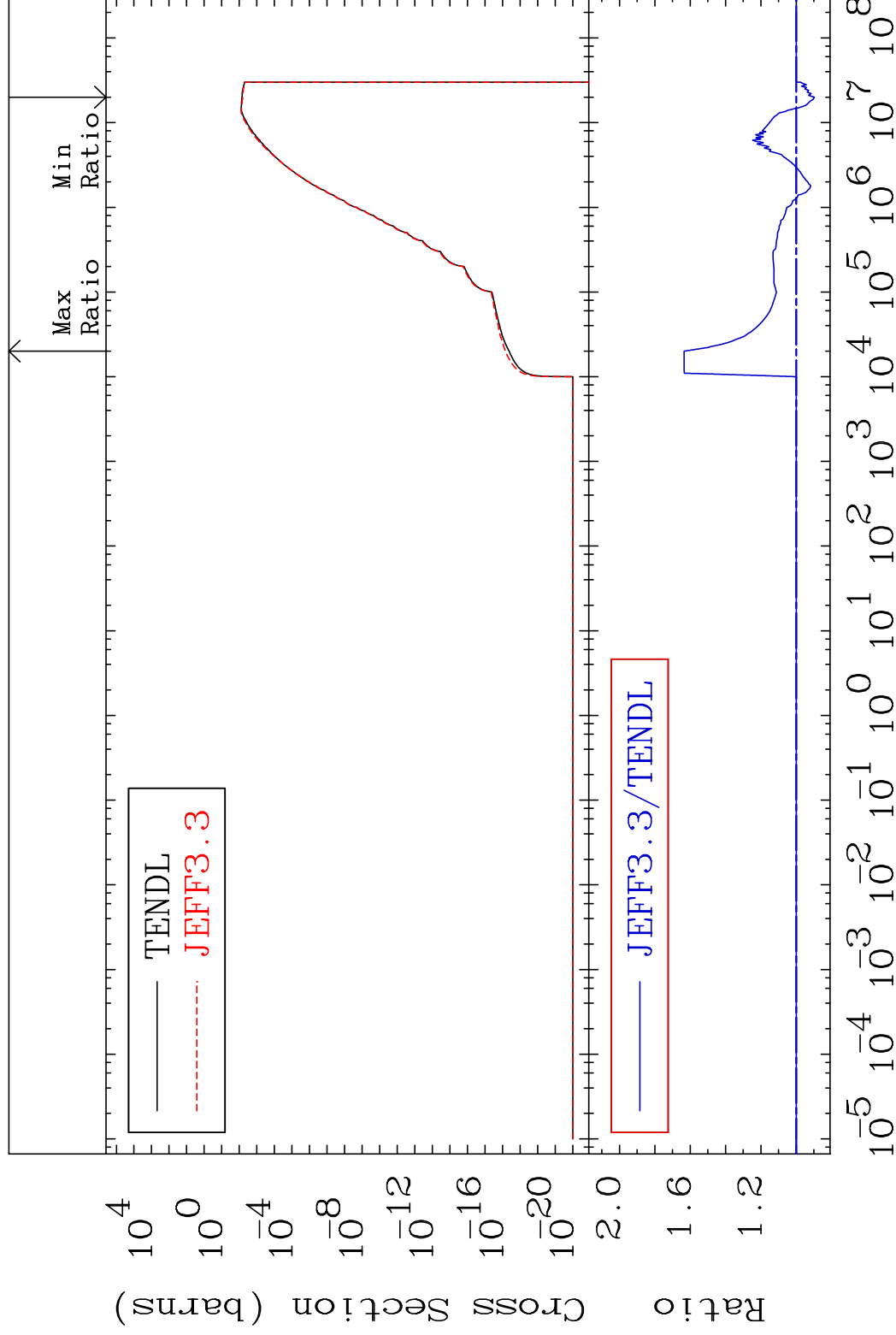
44-Ru-99

MAT 4434

(n, p)

44-Ru-99

Cross Section -10.22 To 63.47 %



52

Incident Energy (eV)

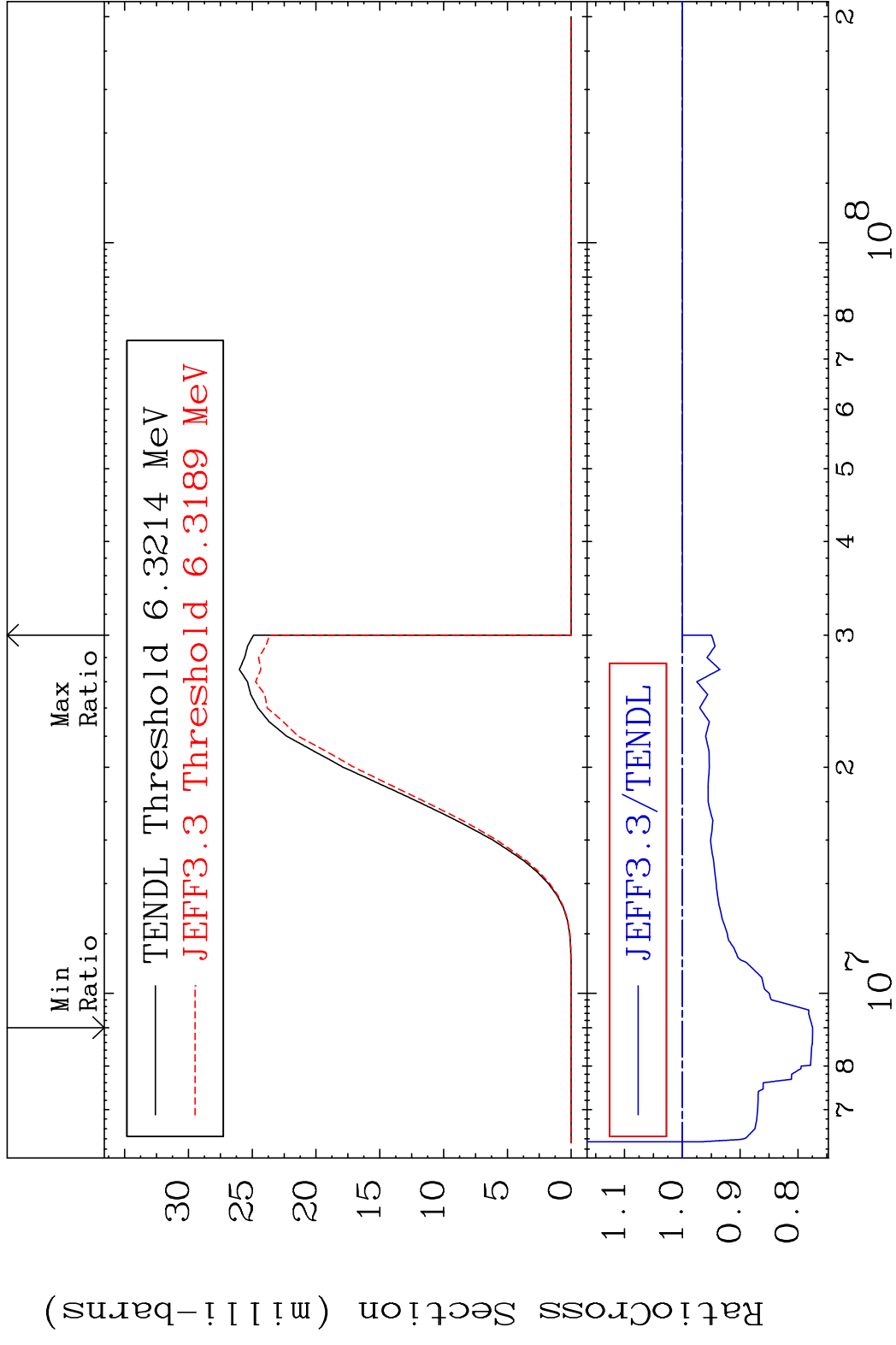
44-Ru-99

MAT 4434

44-Ru-99

(n, d)

Cross Section -22.53 To 0.000 %

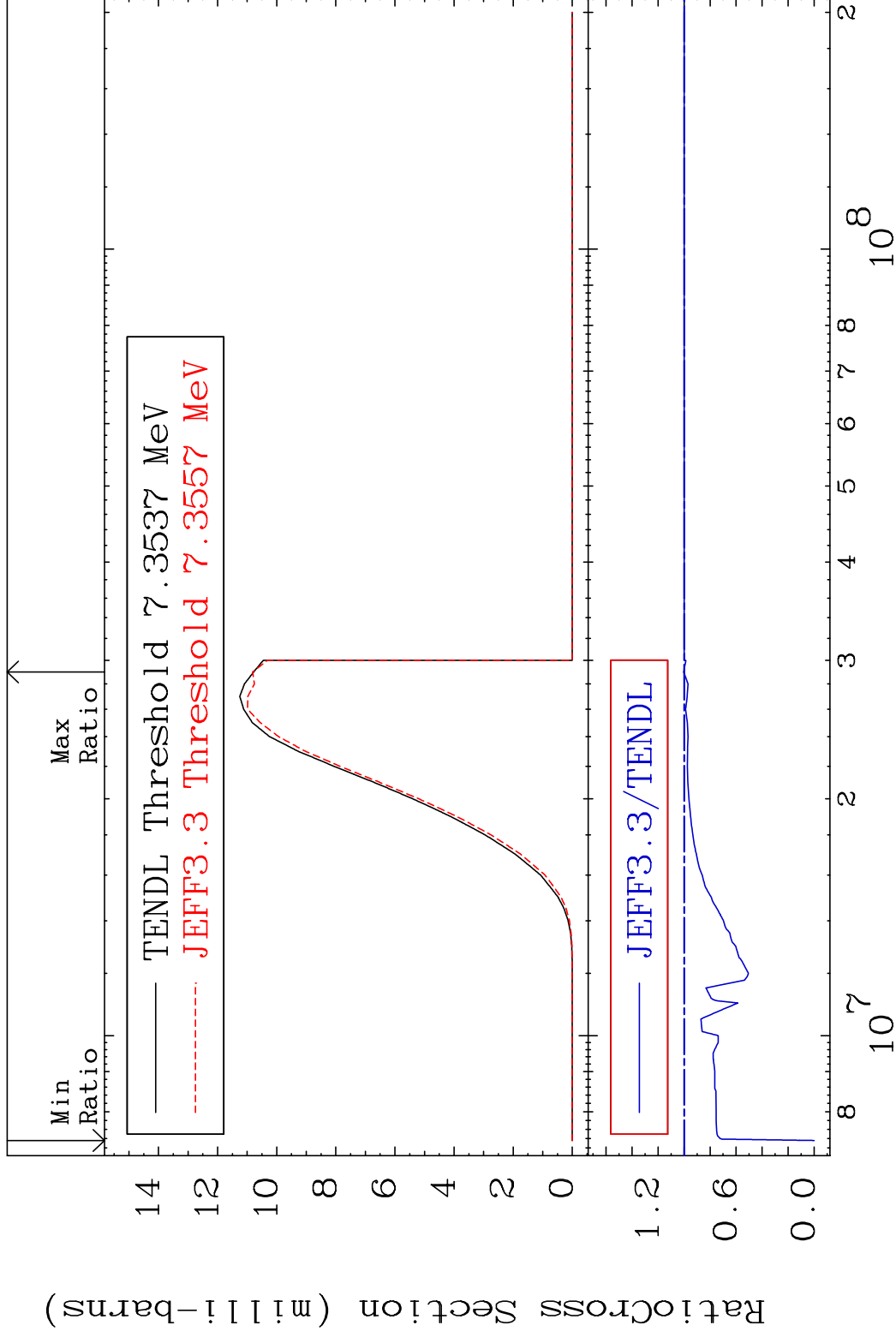


MAT 4434

(n, t)

44-Ru-99

Cross Section -100.0 To 0.323 %



54

Incident Energy (eV)

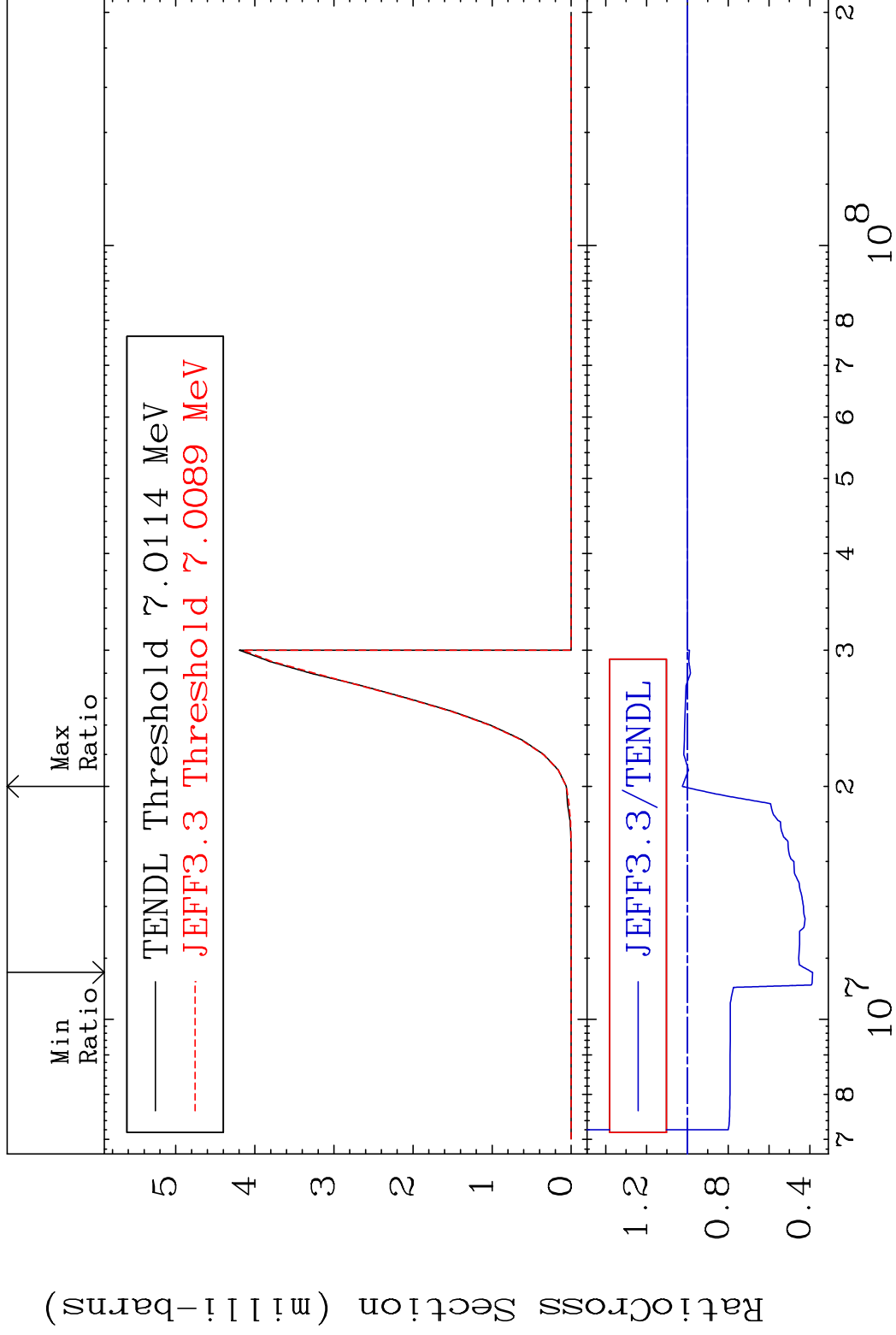
44-Ru-99

MAT 4434

(n, He-3)

44-Ru-99

Cross Section -61.35 To 2.447 %



55

Incident Energy (eV)

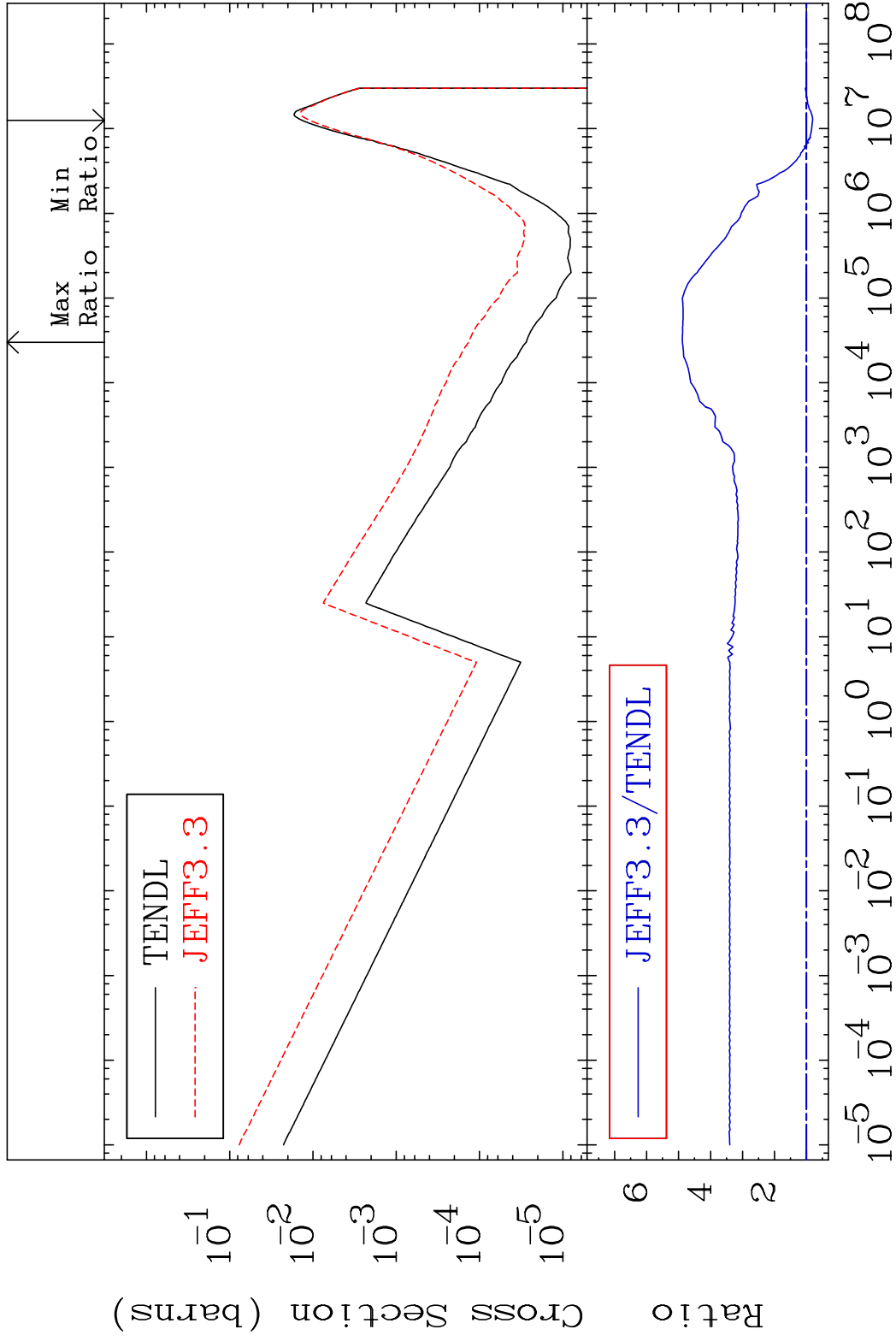
44-Ru-99

MAT 4434

(n, α)

44-Ru-99

Cross Section -19.02 To 388.3 %



56

Incident Energy (eV)

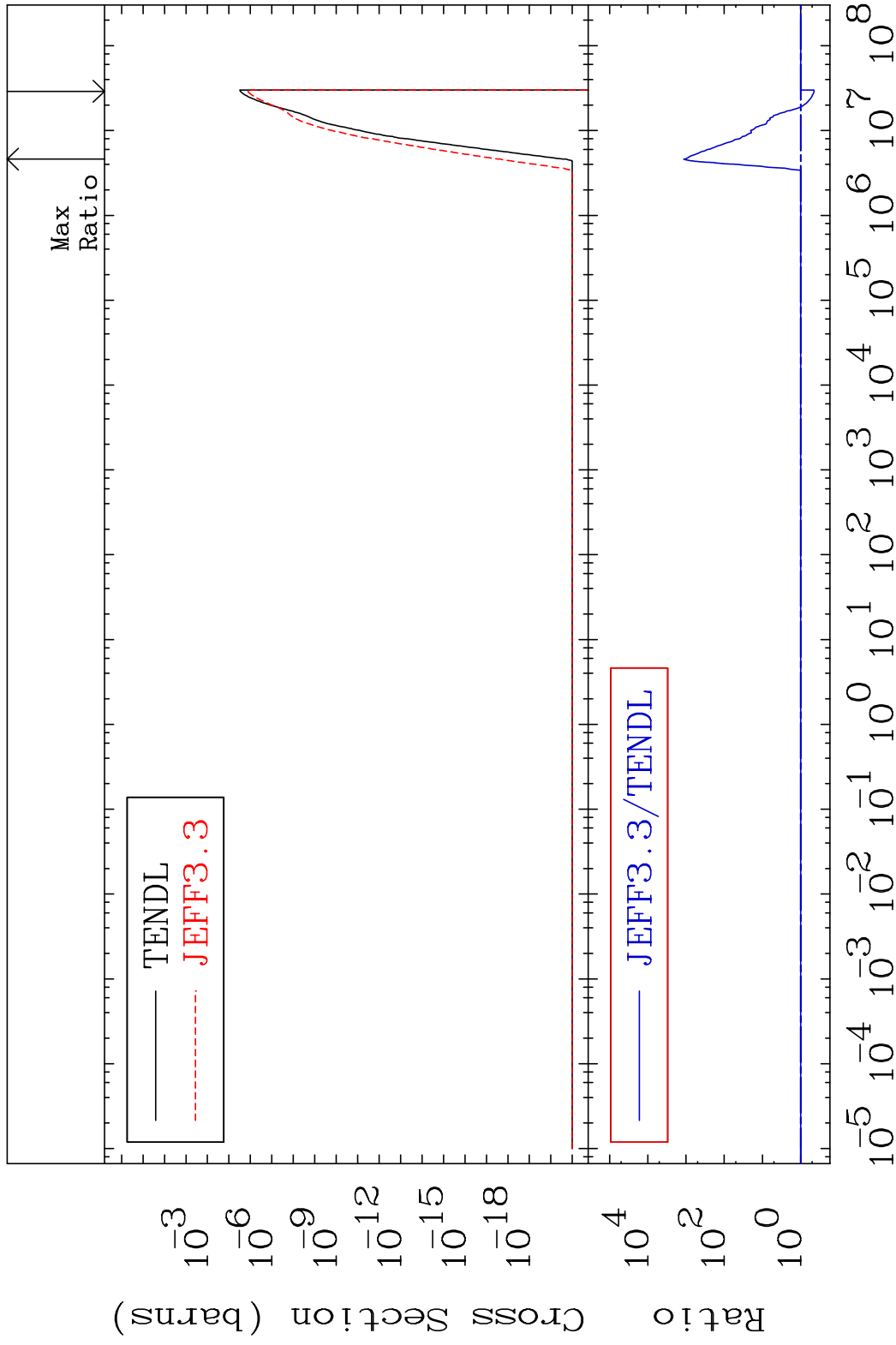
44-Ru-99

MAT 4434

(n, 2α)

44-Ru-99

Cross Section -55.46 To 9999. %



57

Incident Energy (eV)

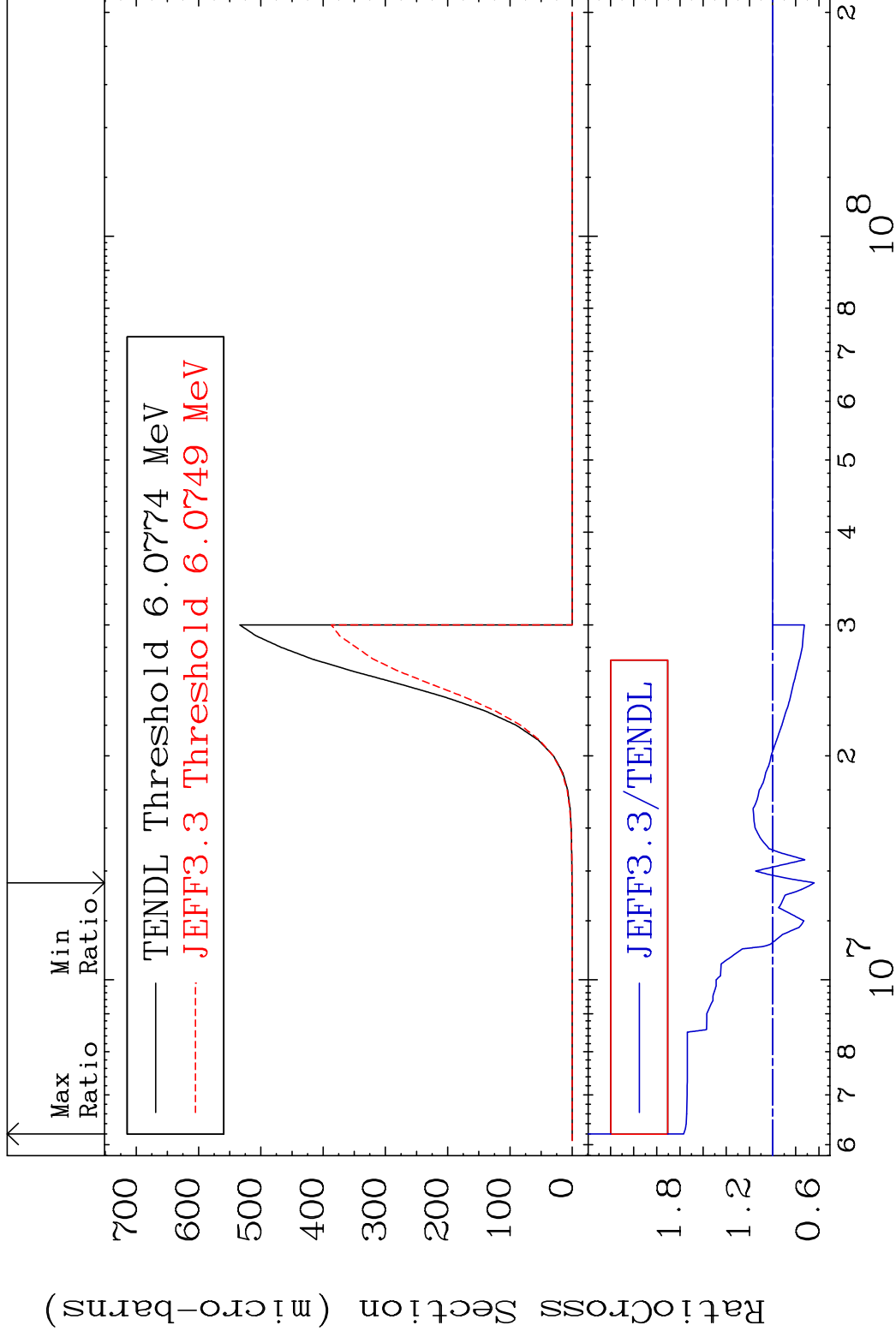
44-Ru-99

MAT 4434

(n,2p)

44-Ru-99

Cross Section -35.90 To 76.78 %



58

Incident Energy (eV)

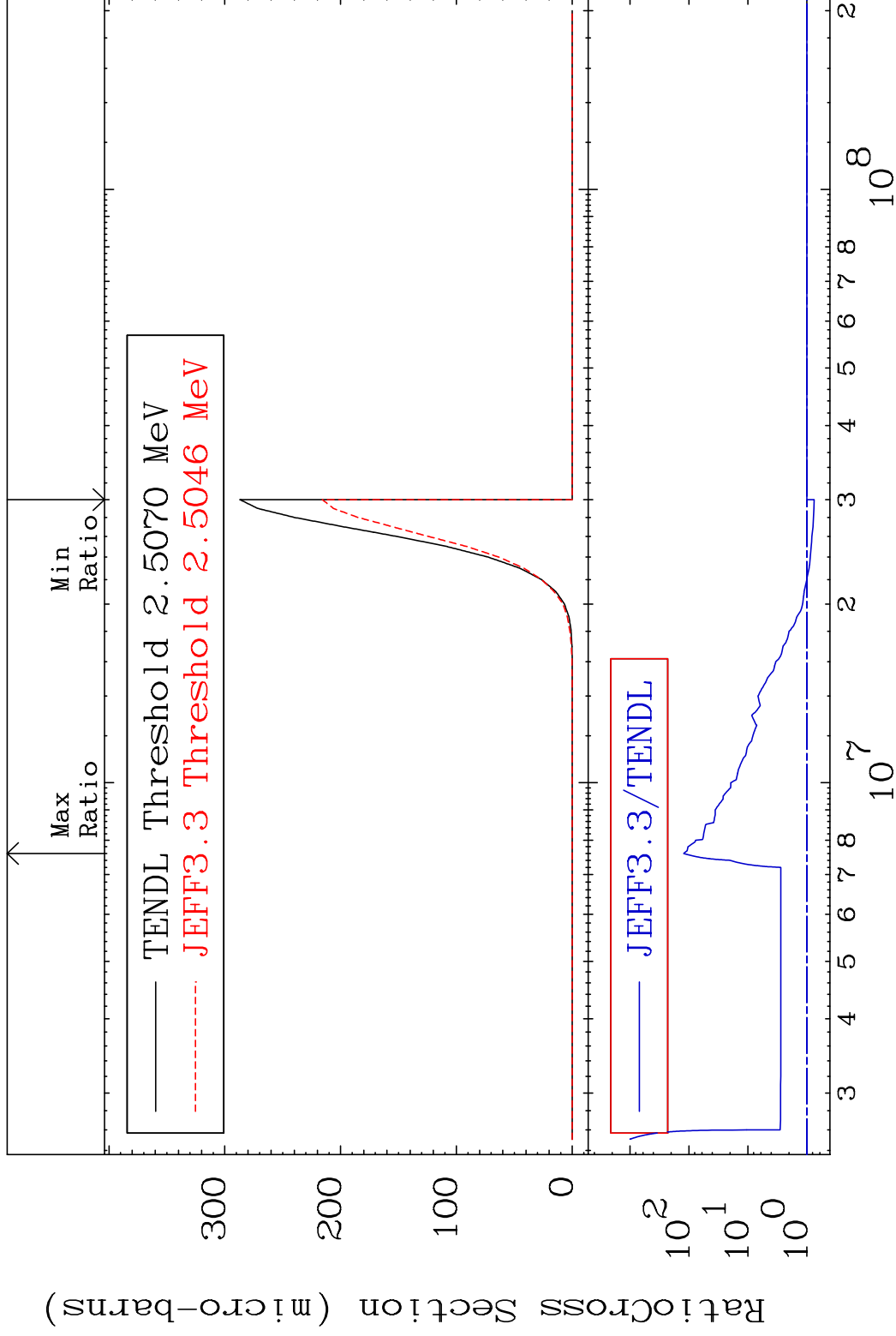
44-Ru-99

MAT 4434

(n,p) α

44-Ru-99

Cross Section -24.80 To 9999. %



59

Incident Energy (eV)

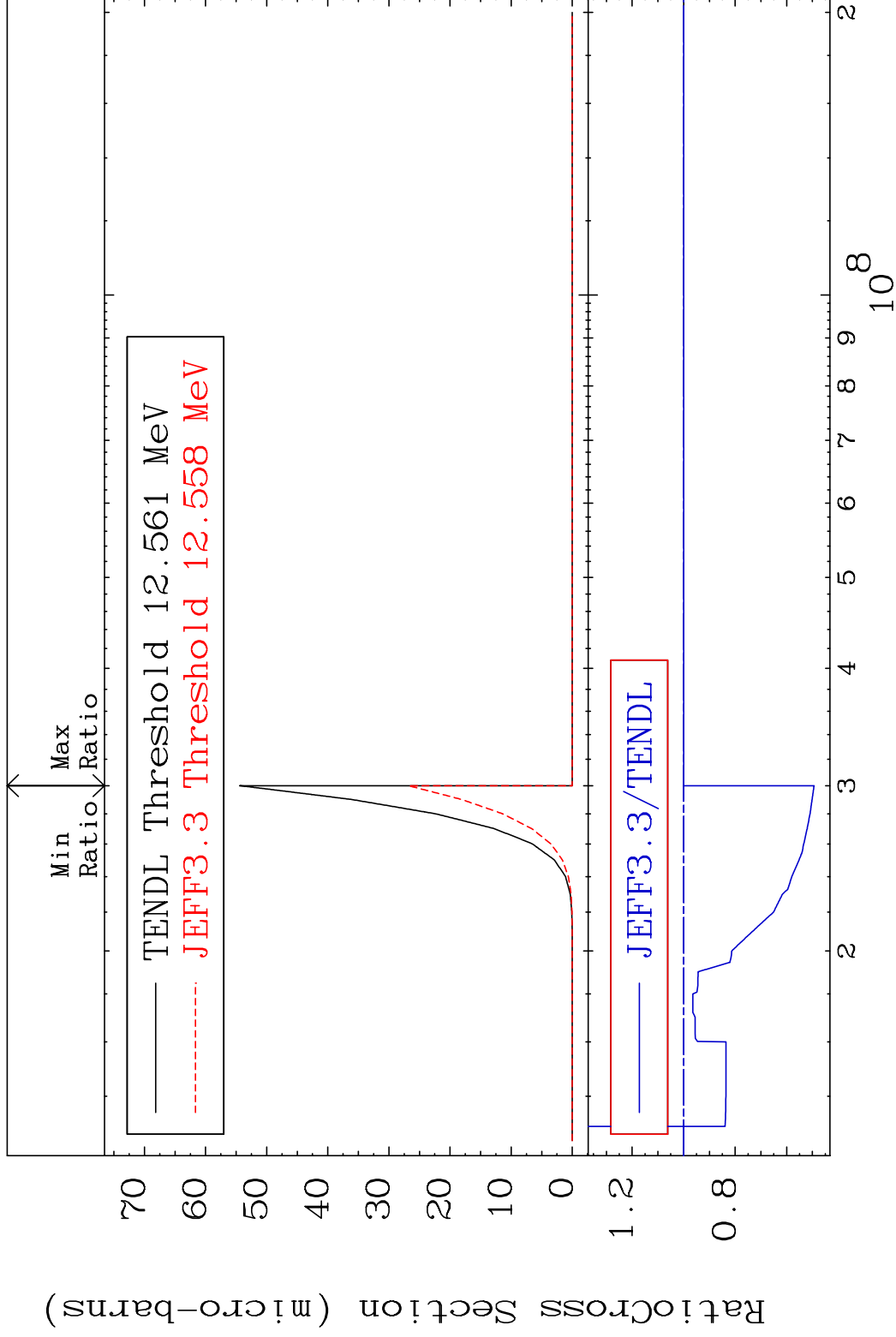
44-Ru-99

MAT 4434

(n,p) d

44-Ru-99

Cross Section -50.65 To 0.000 %



60

Incident Energy (eV)

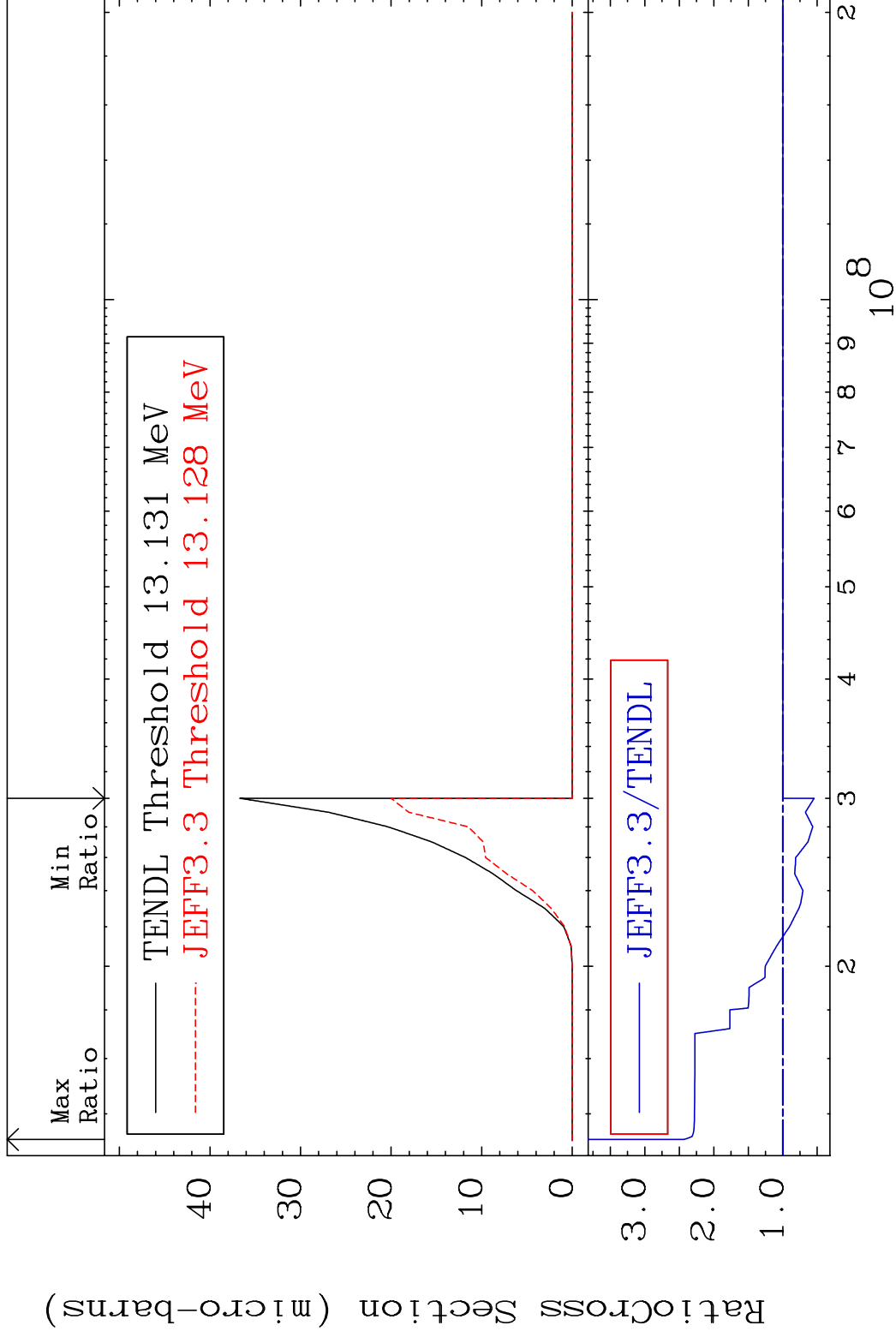
44-Ru-99

MAT 4434

(n,p) t

44-Ru-99

Cross Section -45.47 To 143.6 %



61

Incident Energy (eV)

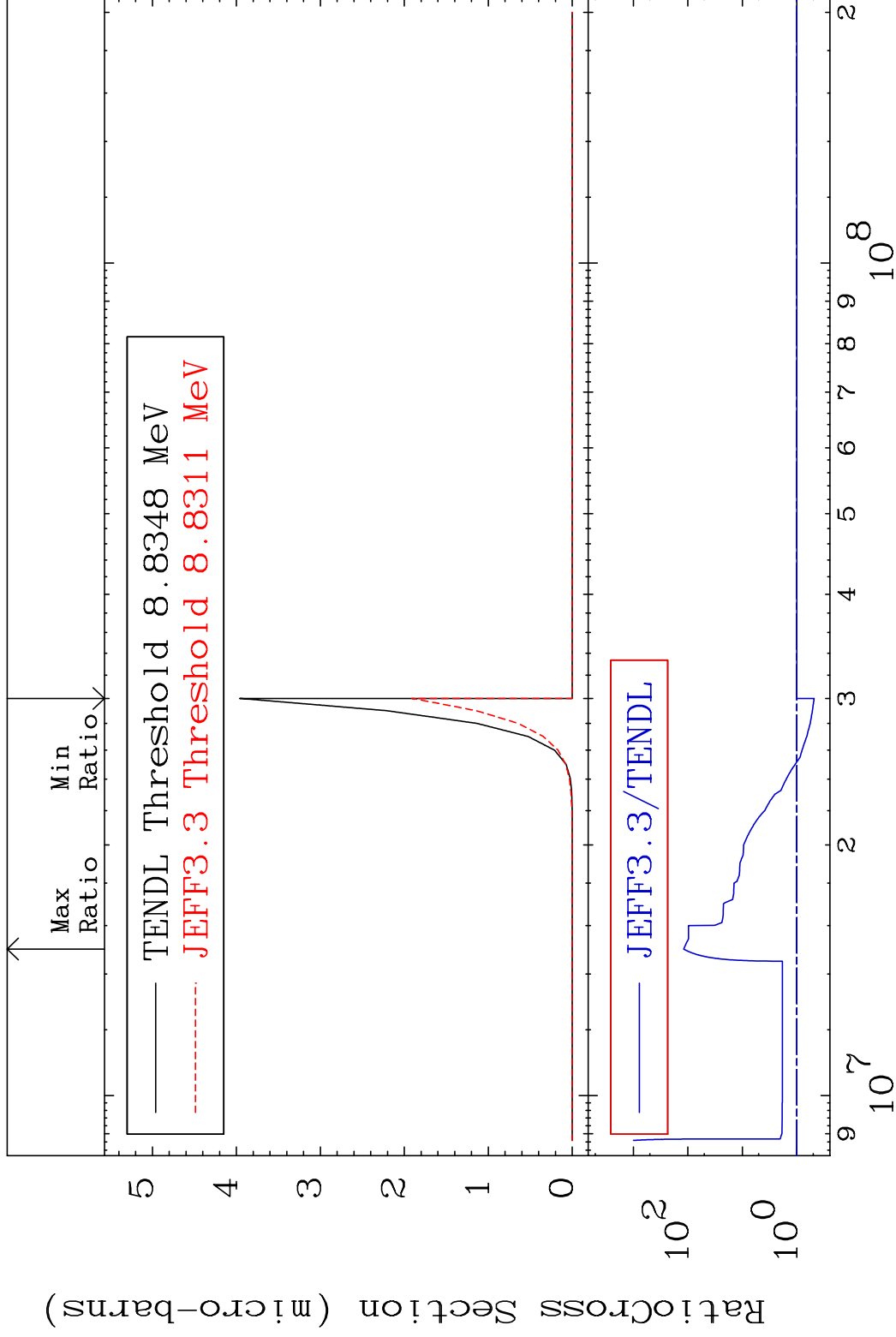
44-Ru-99

MAT 4434

(n,d) α

44-Ru-99

Cross Section -51.82 To 9999. %



62

Incident Energy (eV)

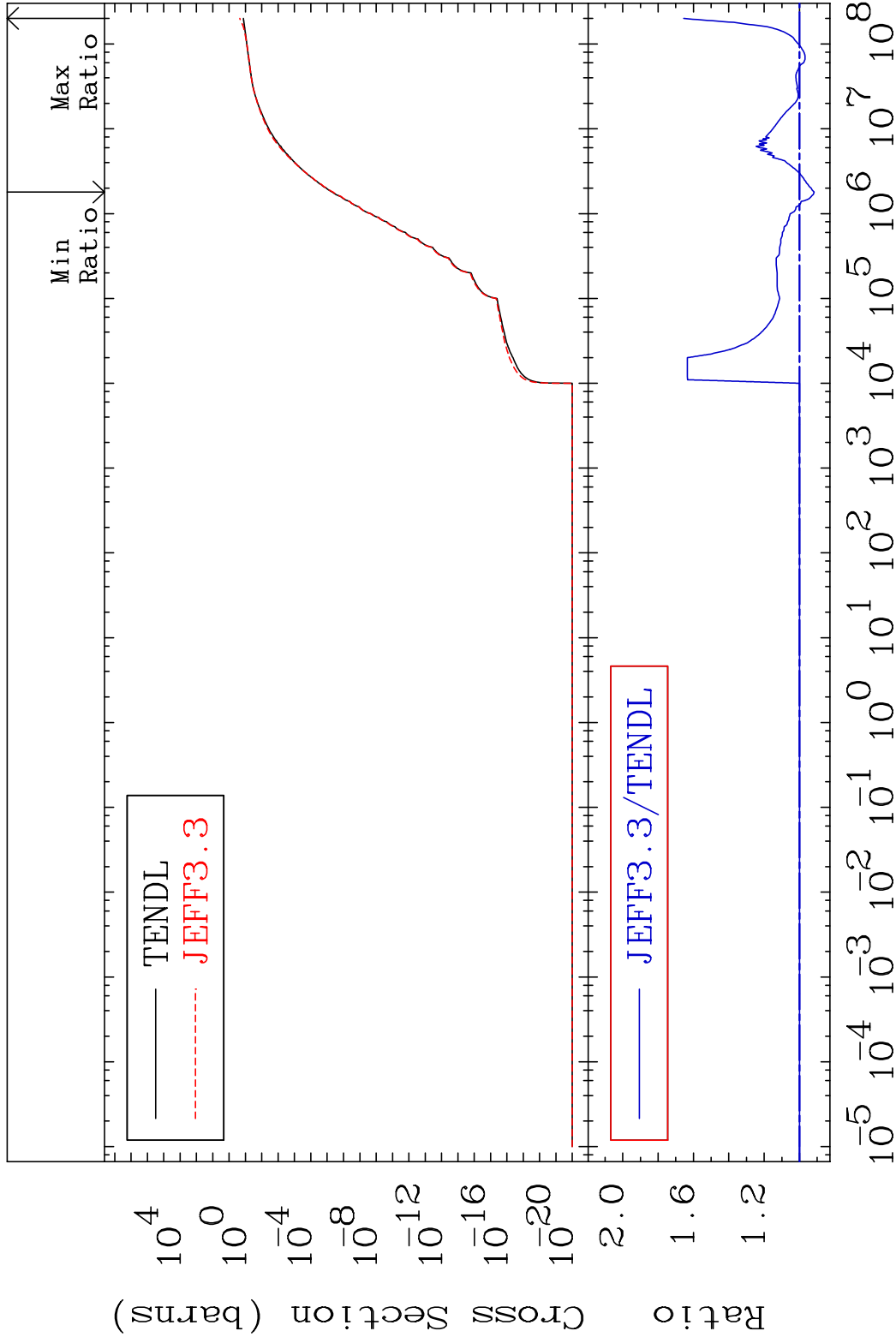
44-Ru-99

MAT 4434

Hydrogen Production

44-Ru-99

Cross Section -8.242 To 65.54 %



63

Incident Energy (eV)

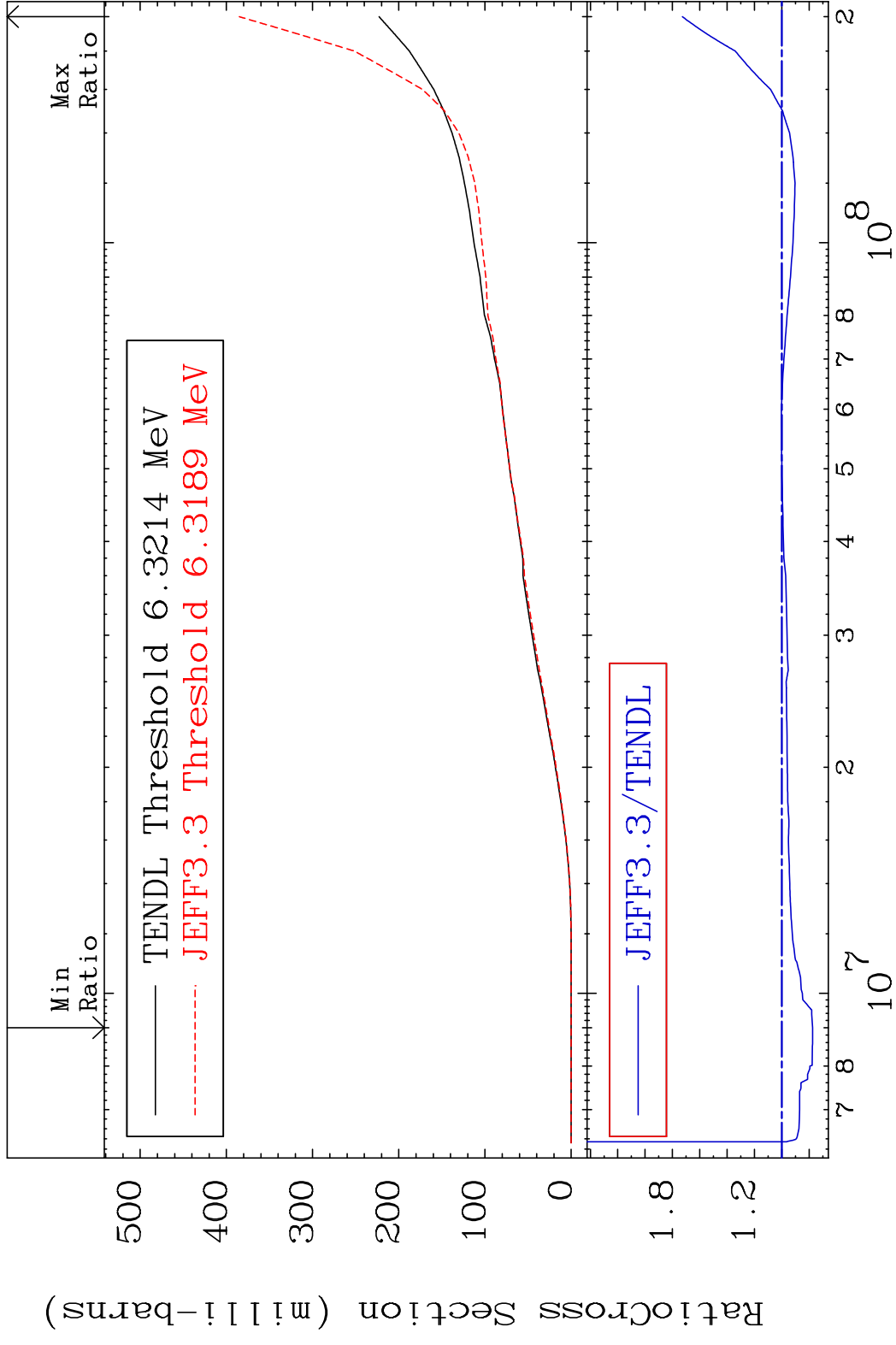
44-Ru-99

MAT 4434

Deuterium Production

44-Ru-99

Cross Section -22.53 To 72.72 %

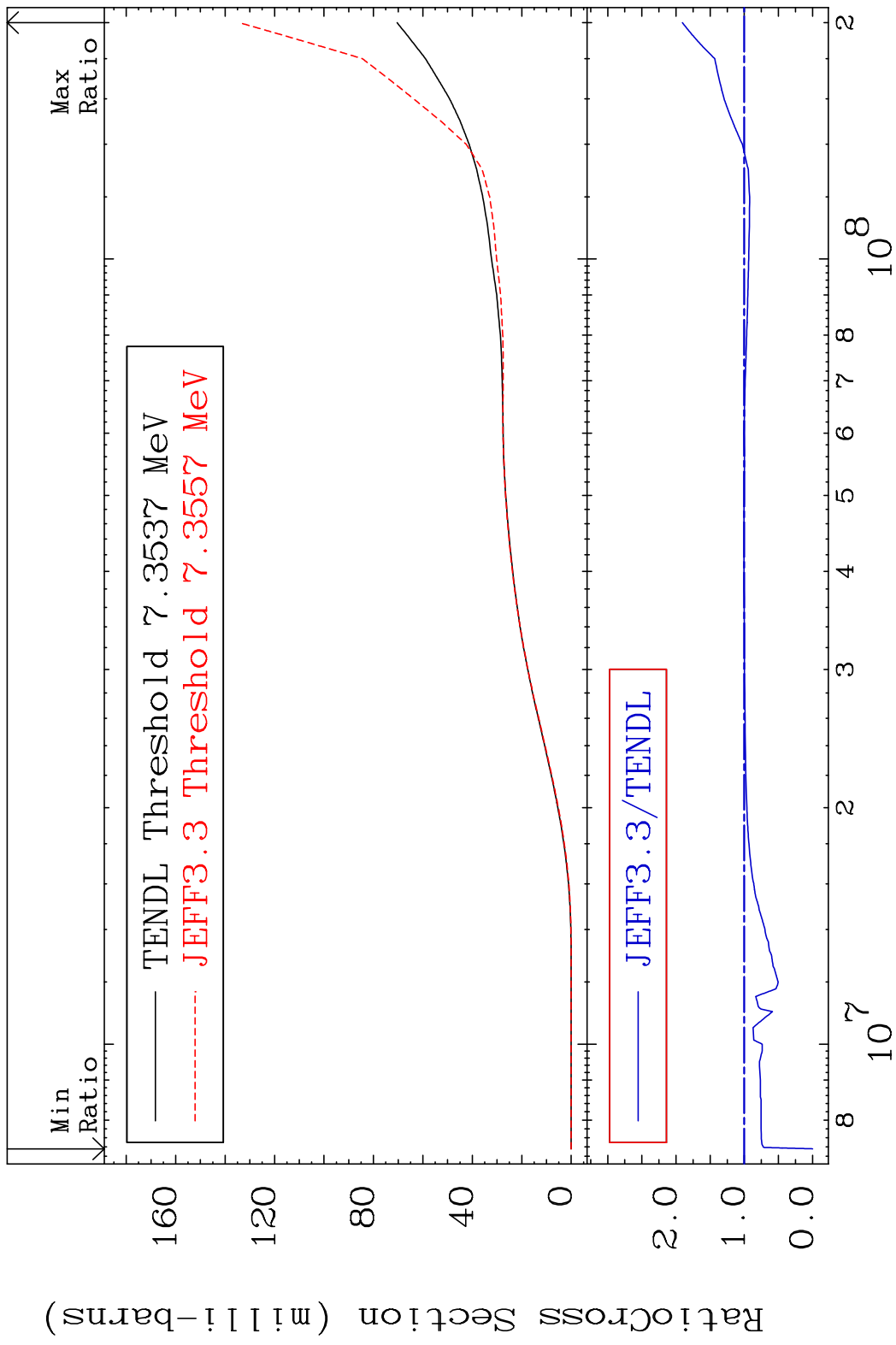


64

Incident Energy (eV)

44-Ru-99

MAT 4434 Tritium Production 44-Ru-99
 Cross Section -100.0 To 90.70 %

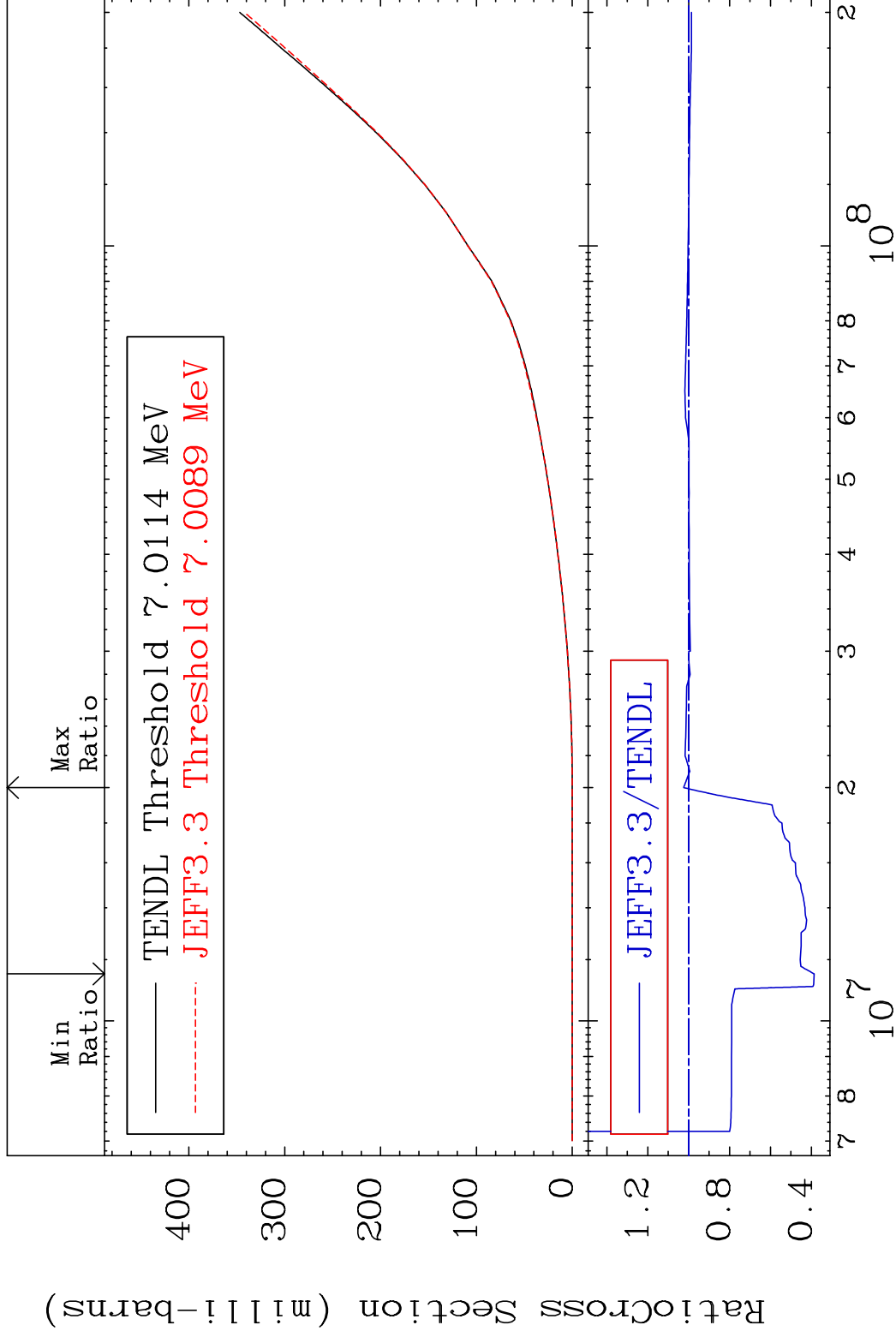


MAT 4434

He-3 Production

44-Ru-99

Cross Section -61.35 To 2.447 %



66

Incident Energy (eV)

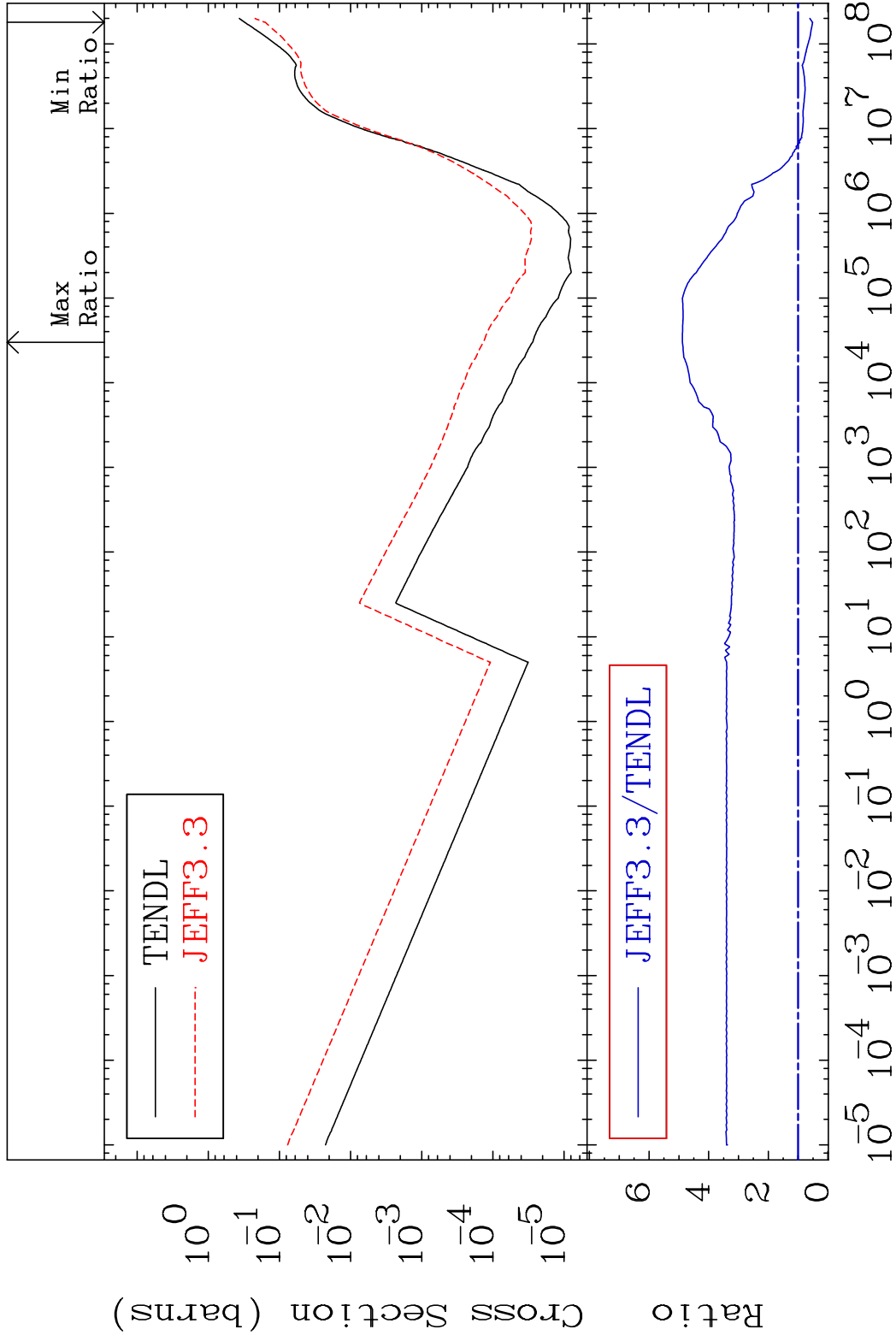
44-Ru-99

MAT 4434

He-4 Production

44-Ru-99

Cross Section -48.41 To 388.3 %

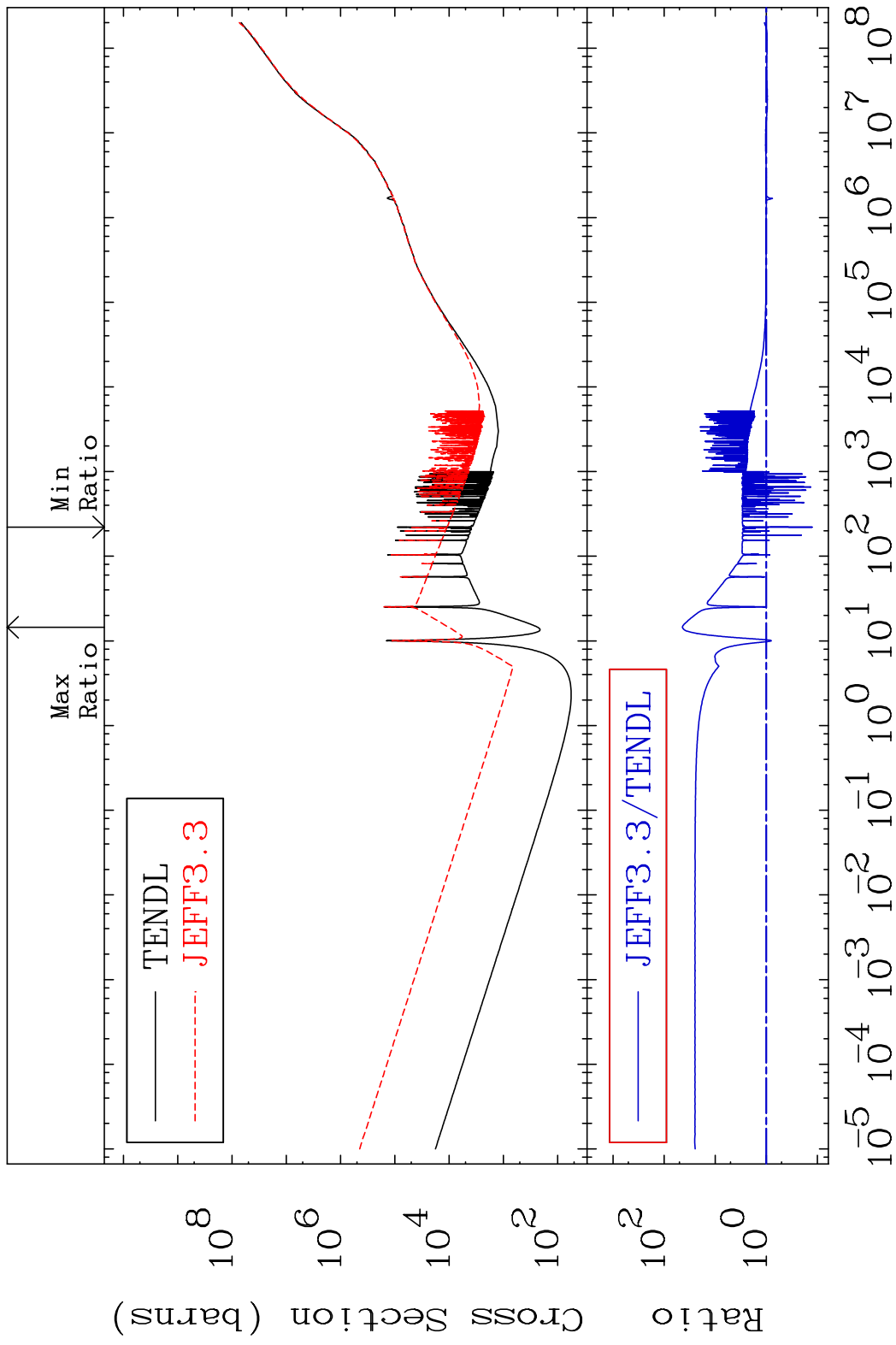


67

Incident Energy (eV)

44-Ru-99

MAT 4434 Kerma total (eV-barns) 44-Ru-99
 Cross Section -87.58 To 4292. %

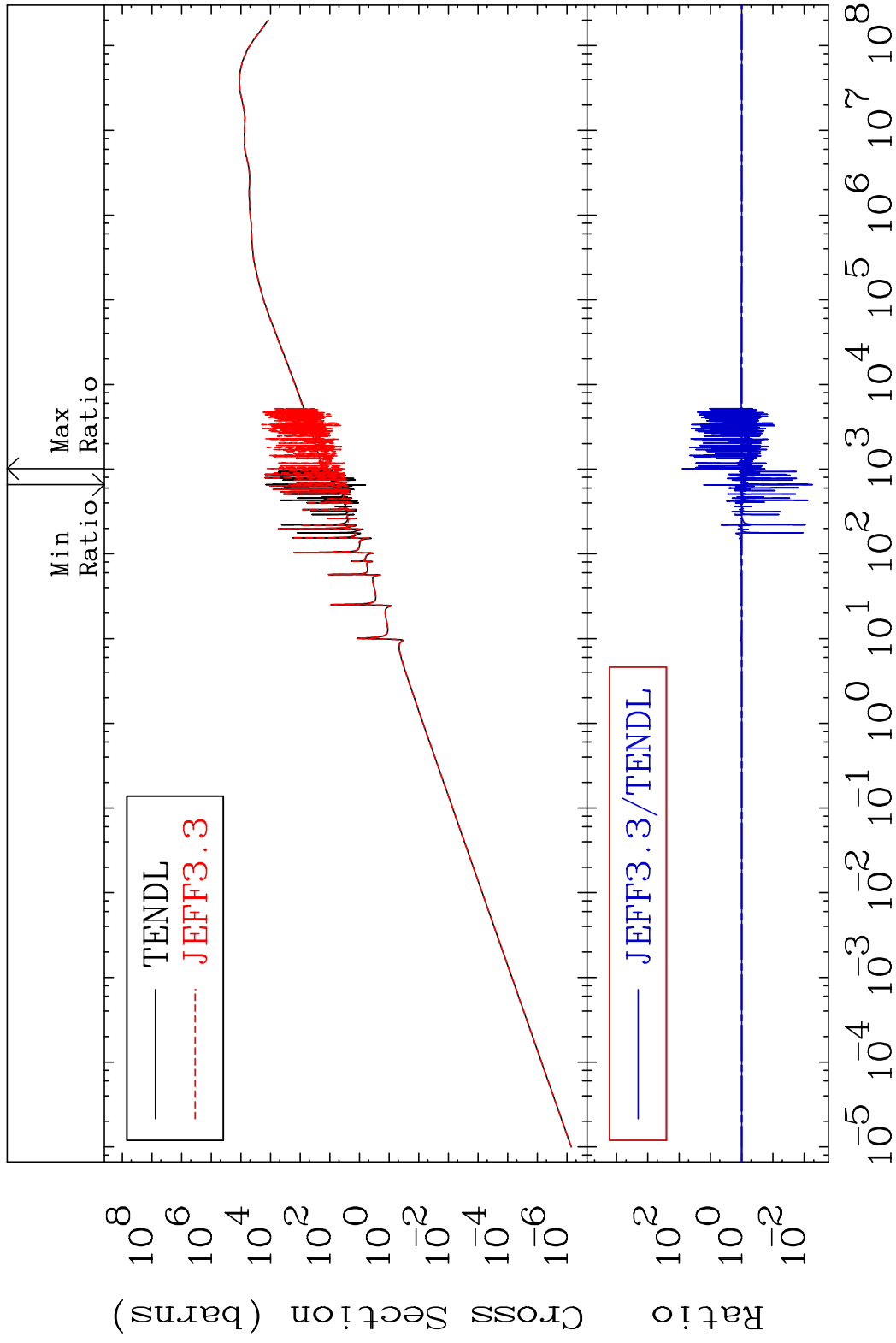


MAT 4434

Kerma elastic

44-Ru-99

Cross Section -99.46 To 7777. %

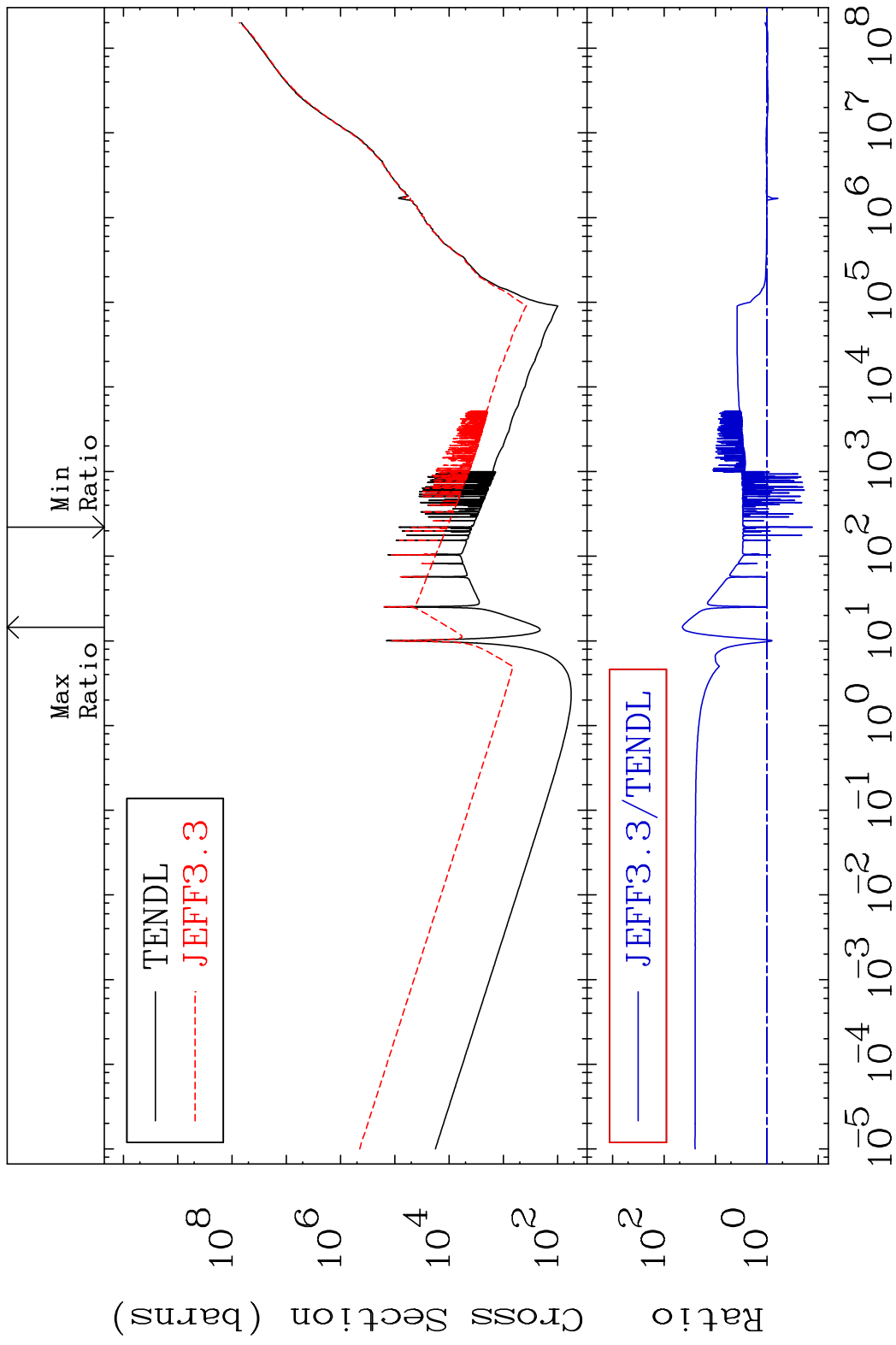


69

Incident Energy (eV)

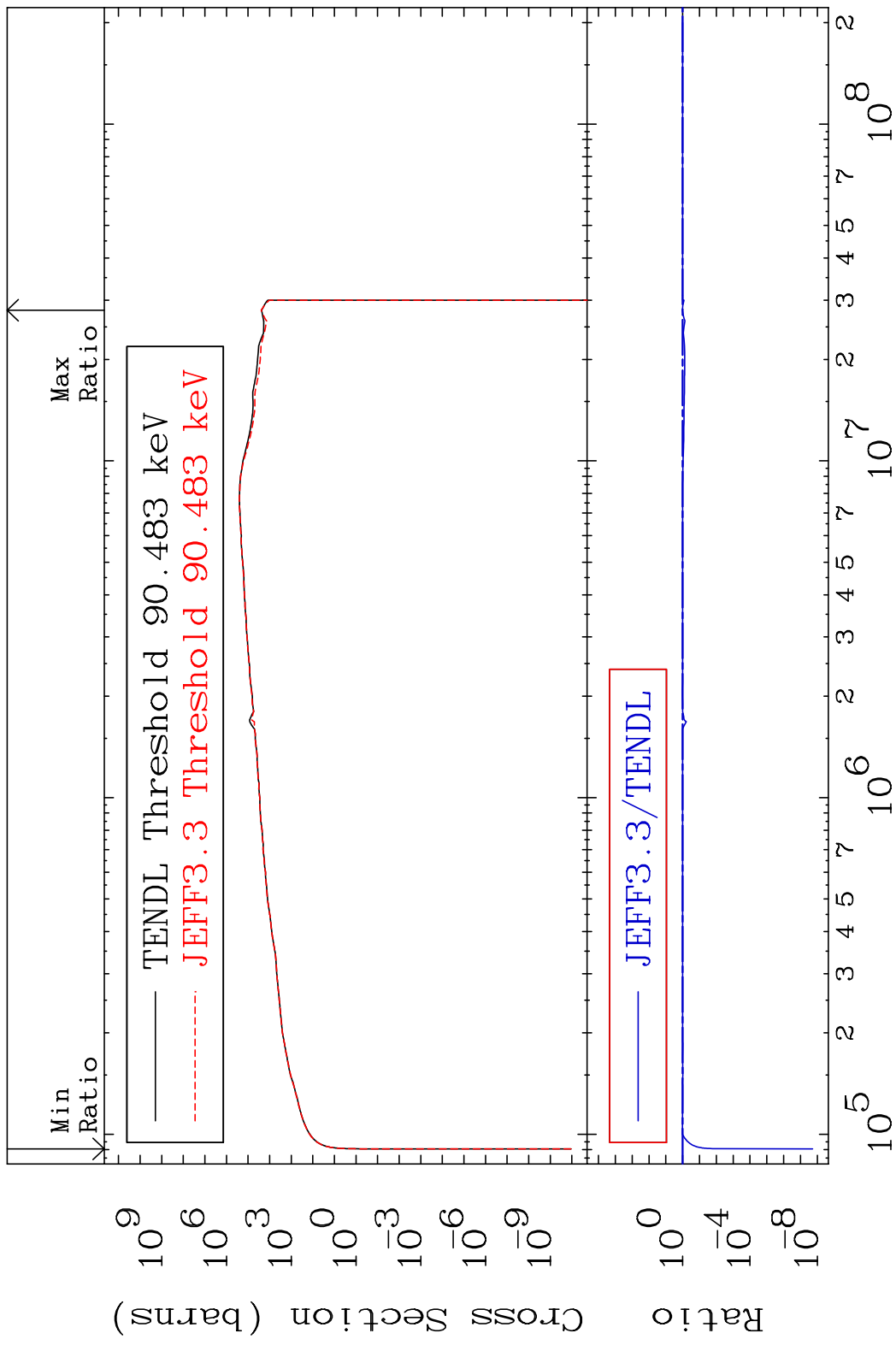
44-Ru-99

MAT 4434 Kerma non-elastic (all but mt2) 44-Ru-99
 Cross Section -87.01 To 4314. %



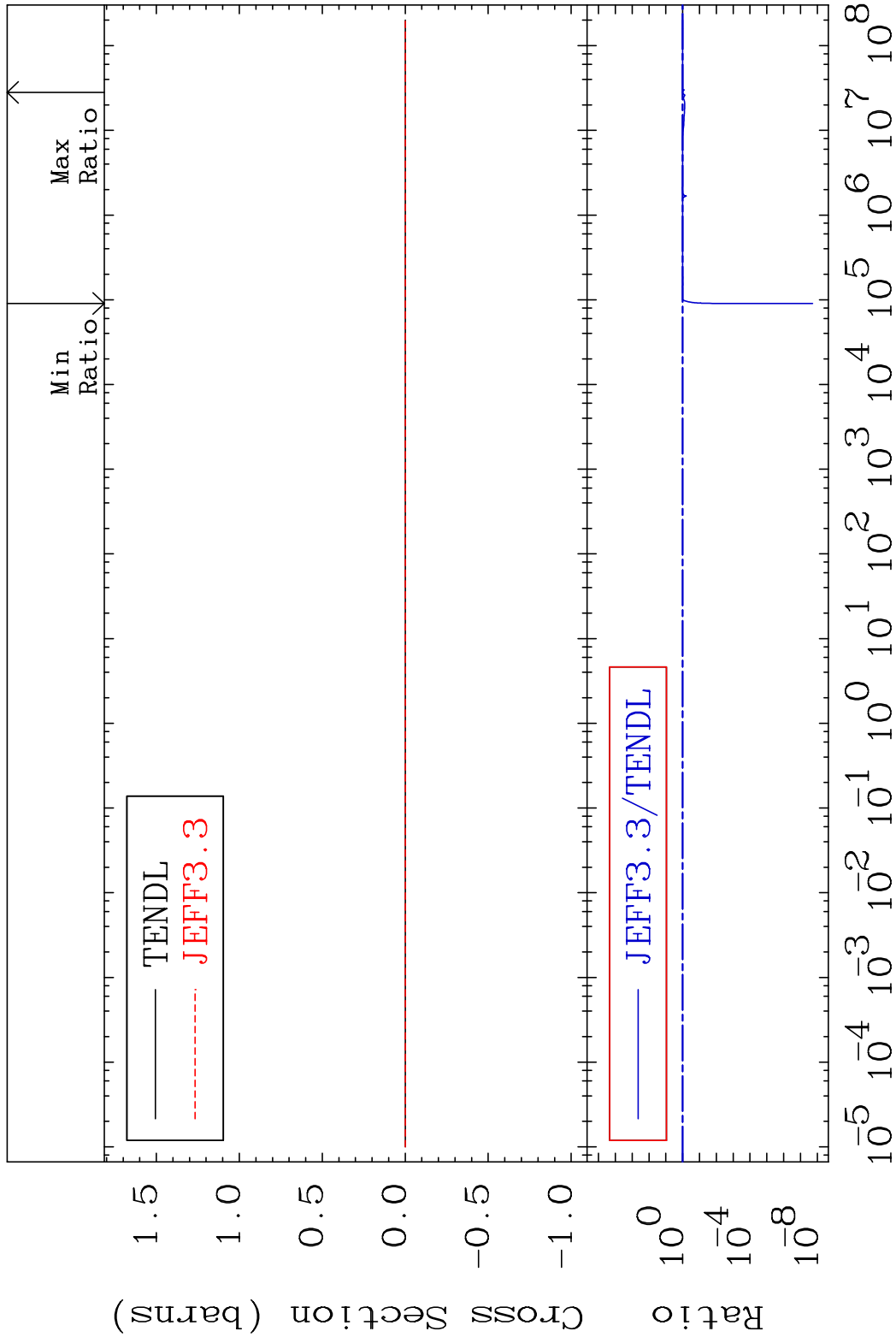
70 Incident Energy (eV) 44-Ru-99

MAT 4434 Kerma inelastic (mt51-91) 44-Ru-99
 Cross Section -100.0 To 4.482 %



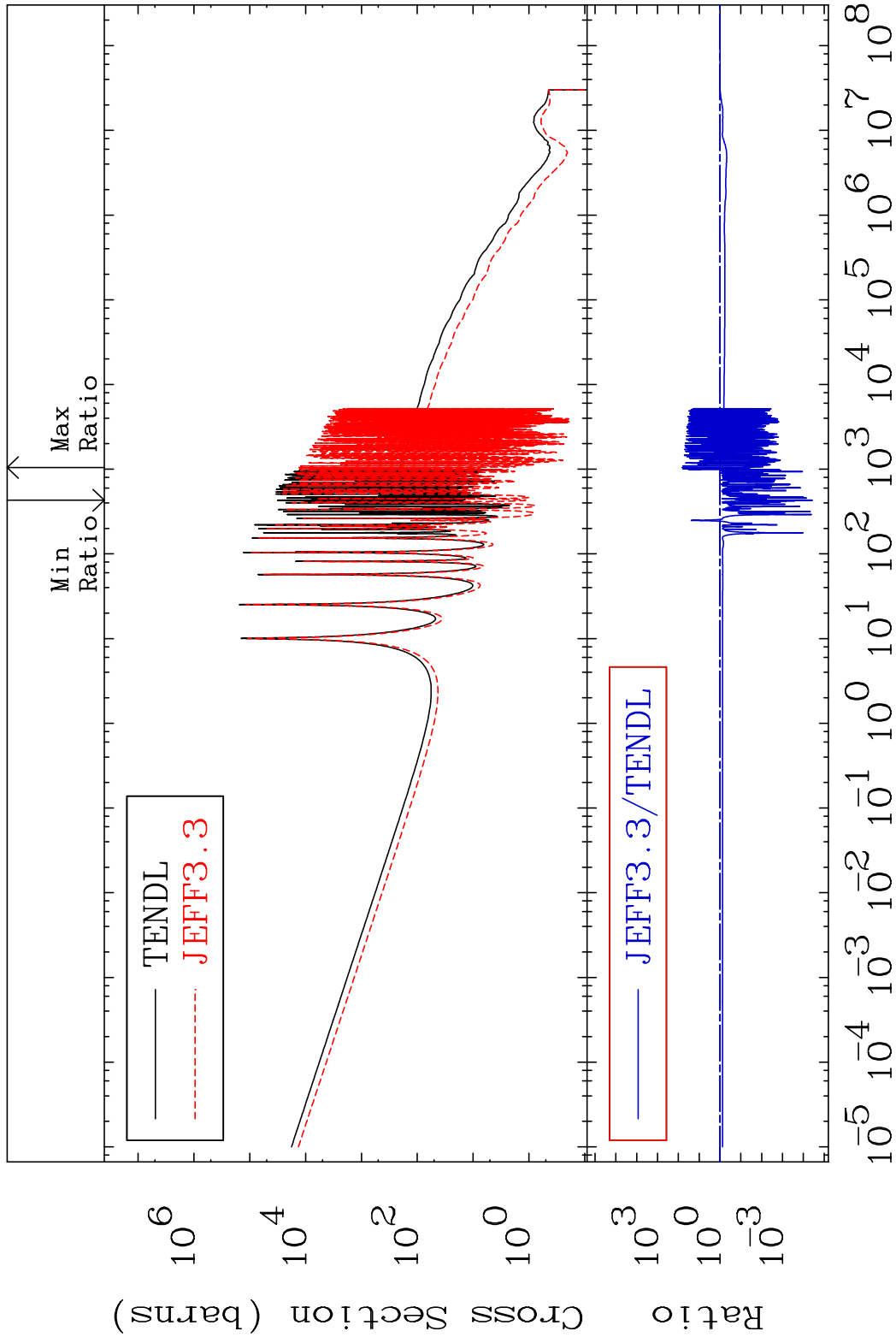
71 Incident Energy (eV) 44-Ru-99

MAT 4434 Kerma fission (mt18 or mt19-20-21-38) 44-Ru-99
 Cross Section -100.0 To 4.482 %



MAT 4434

Kerma capture (mt102) 44-Ru-99
Cross Section -100.0 To 6335. %

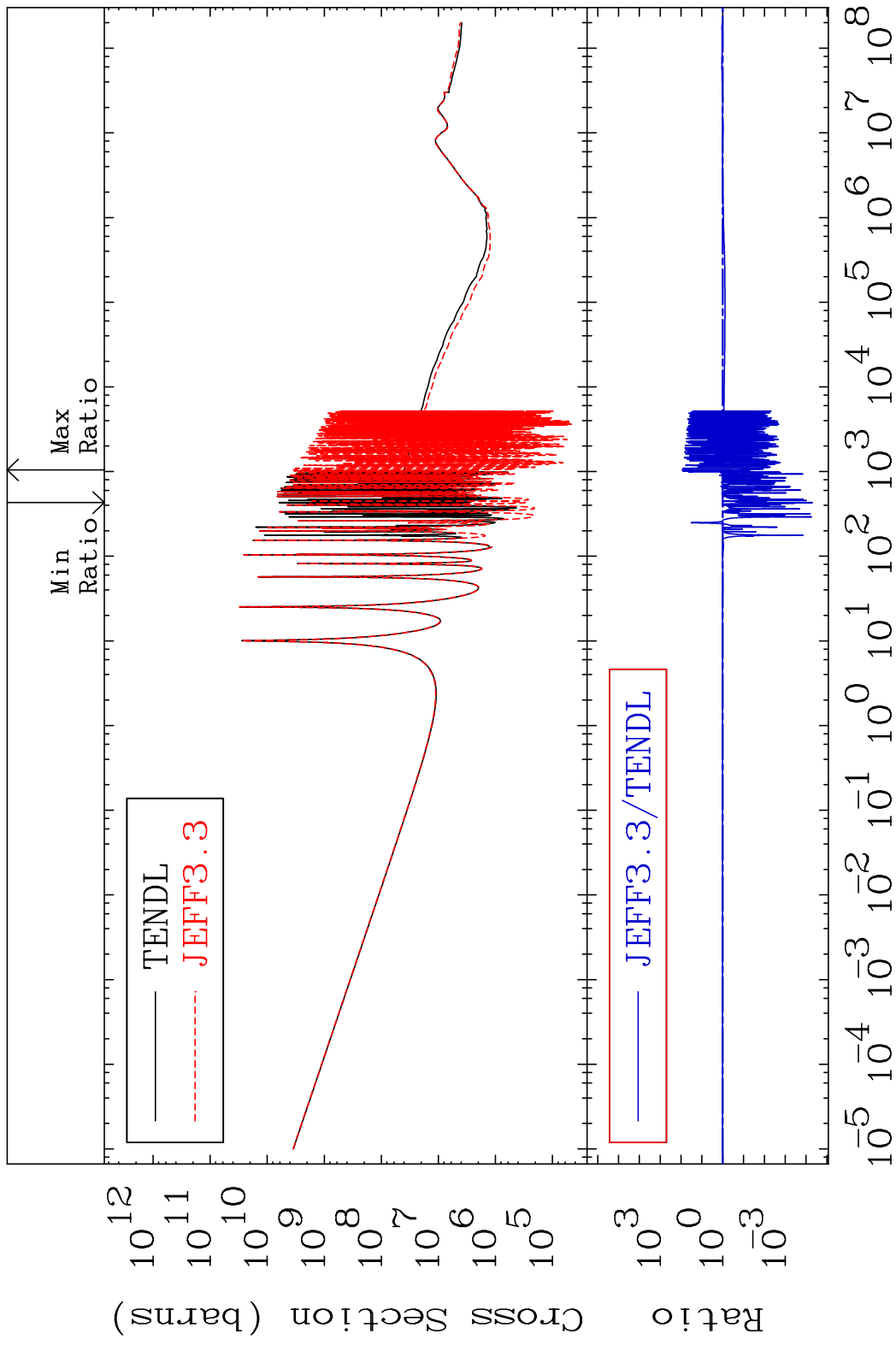


73

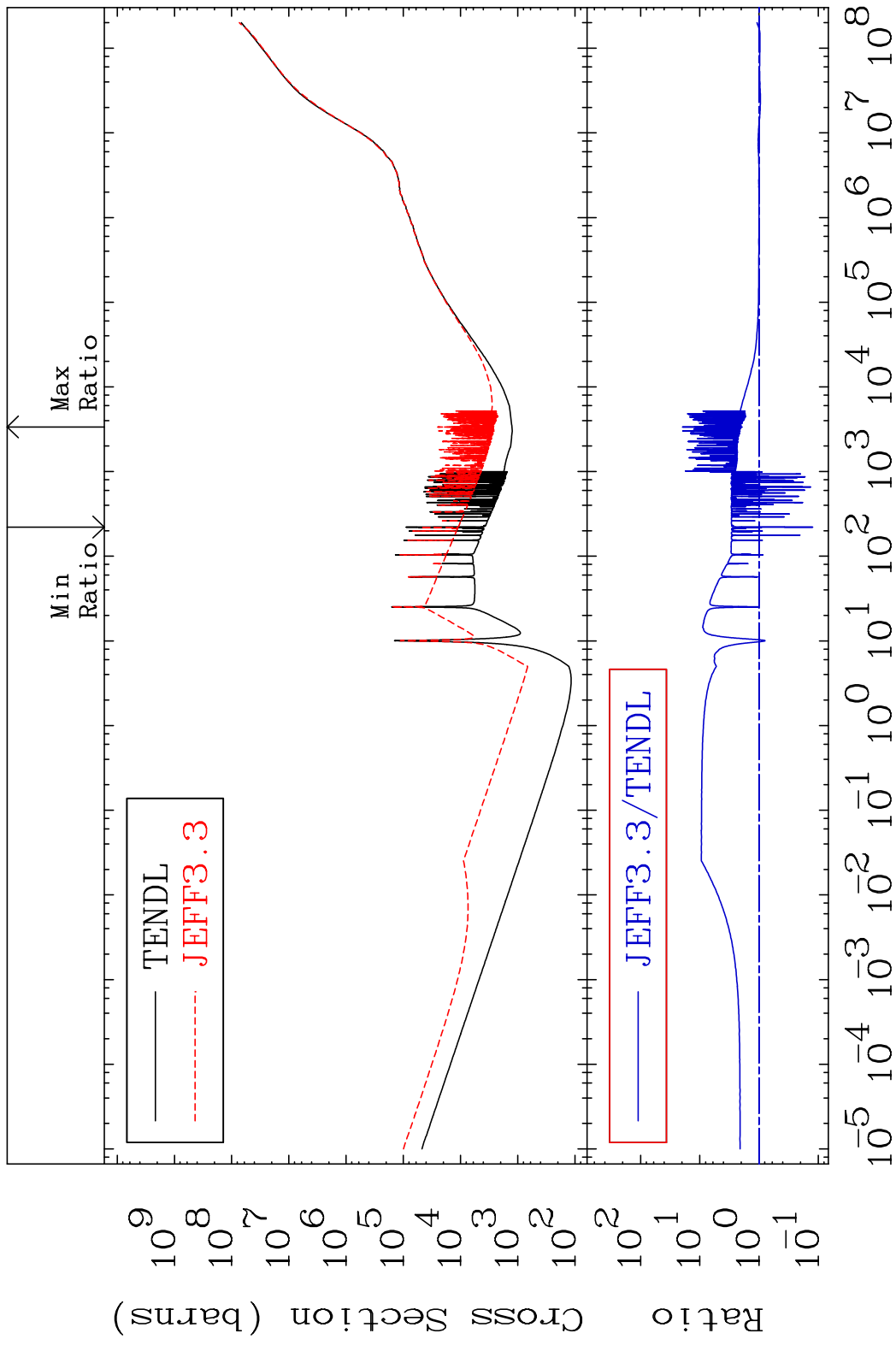
Incident Energy (eV)

44-Ru-99

MAT 4434 Total photon (eV-barns) 44-Ru-99
 Cross Section -100.0 To 8543. %

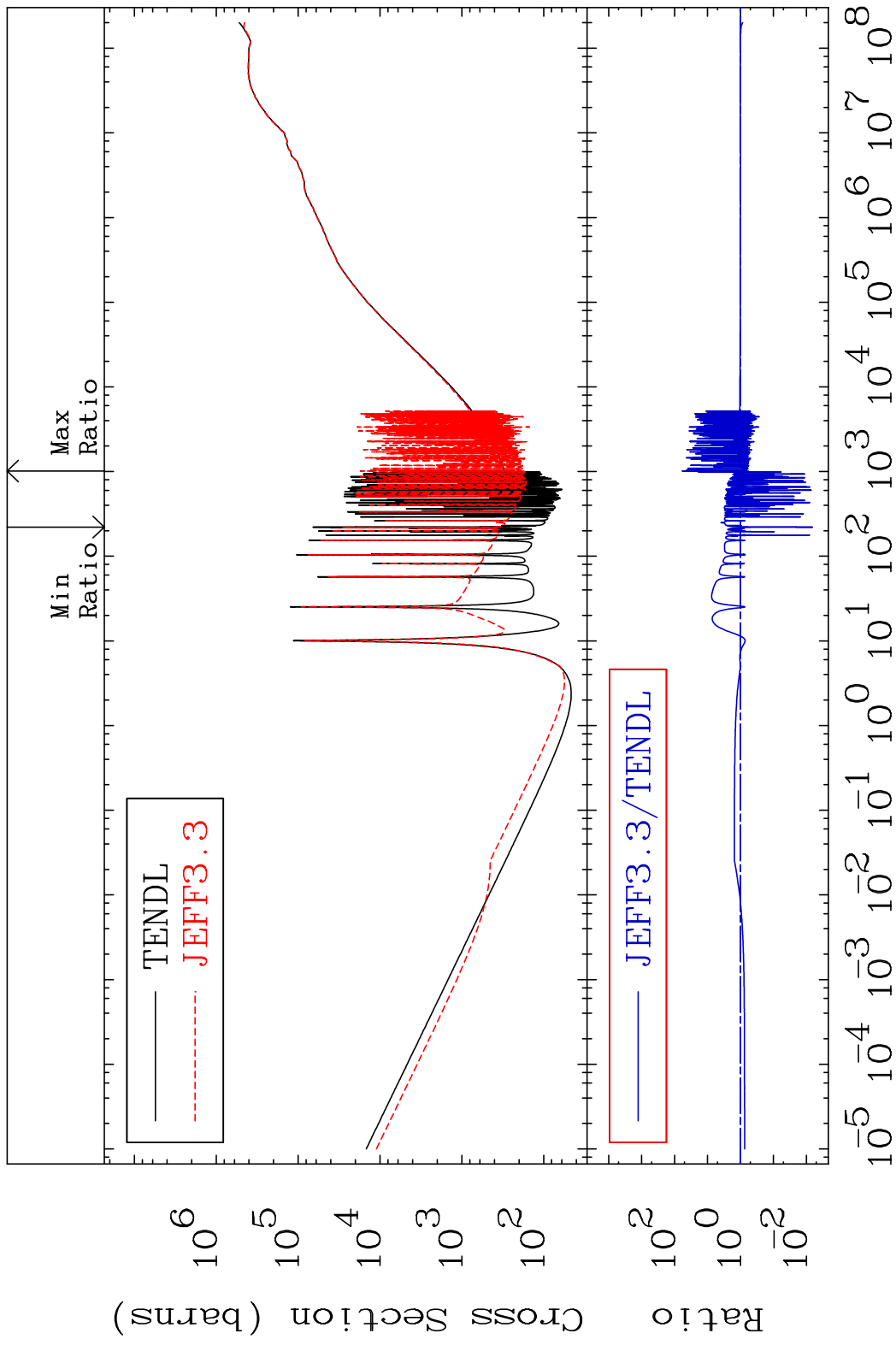


MAT 4434 Total kinematic kerma (high limit) 44-Ru-99
 Cross Section -87.49 To 1870. %



75 Incident Energy (eV) 44-Ru-99

MAT 4434 Dpa total (eV-barns) 44-Ru-99
 Cross Section -99.35 To 5695. %



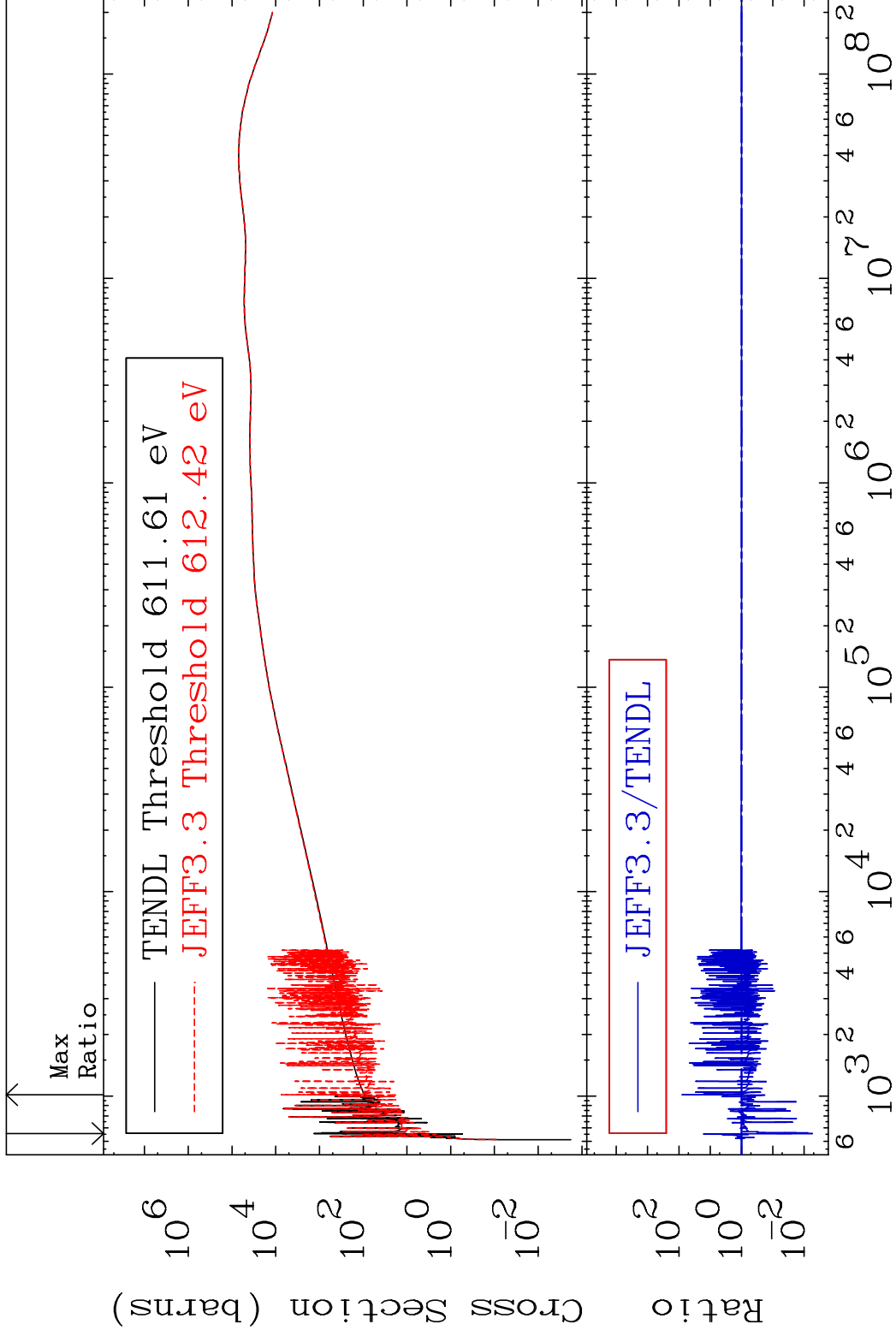
76 Incident Energy (eV) 44-Ru-99

MAT 4434

Dpa elastic (mt2)

44-Ru-99

Cross Section -99.46 To 7771. %

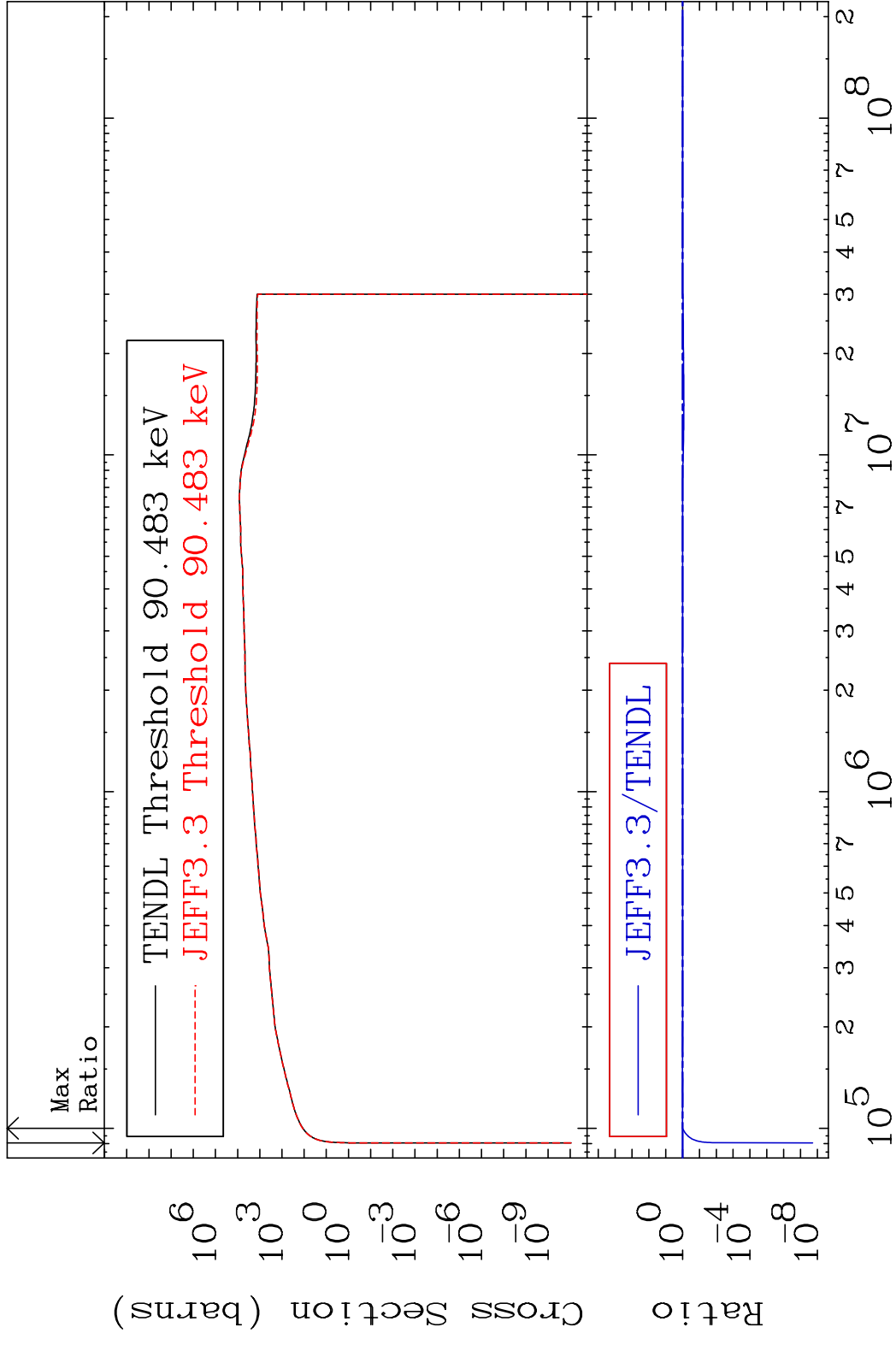


77

Incident Energy (eV)

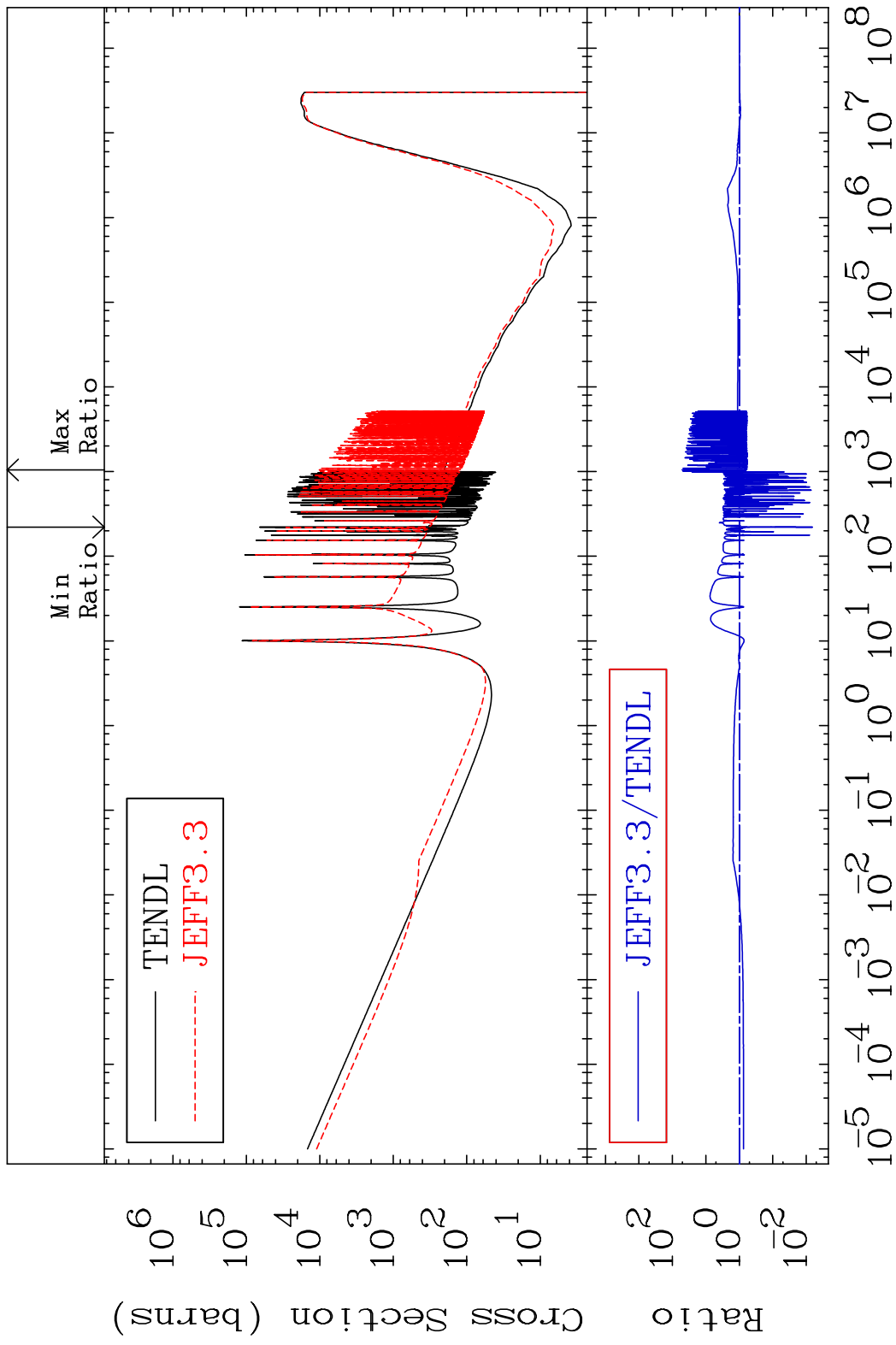
44-Ru-99

MAT 4434 Dpa inelastic (mt51-91) 44-Ru-99
 Cross Section -100.0 To 2.832 %

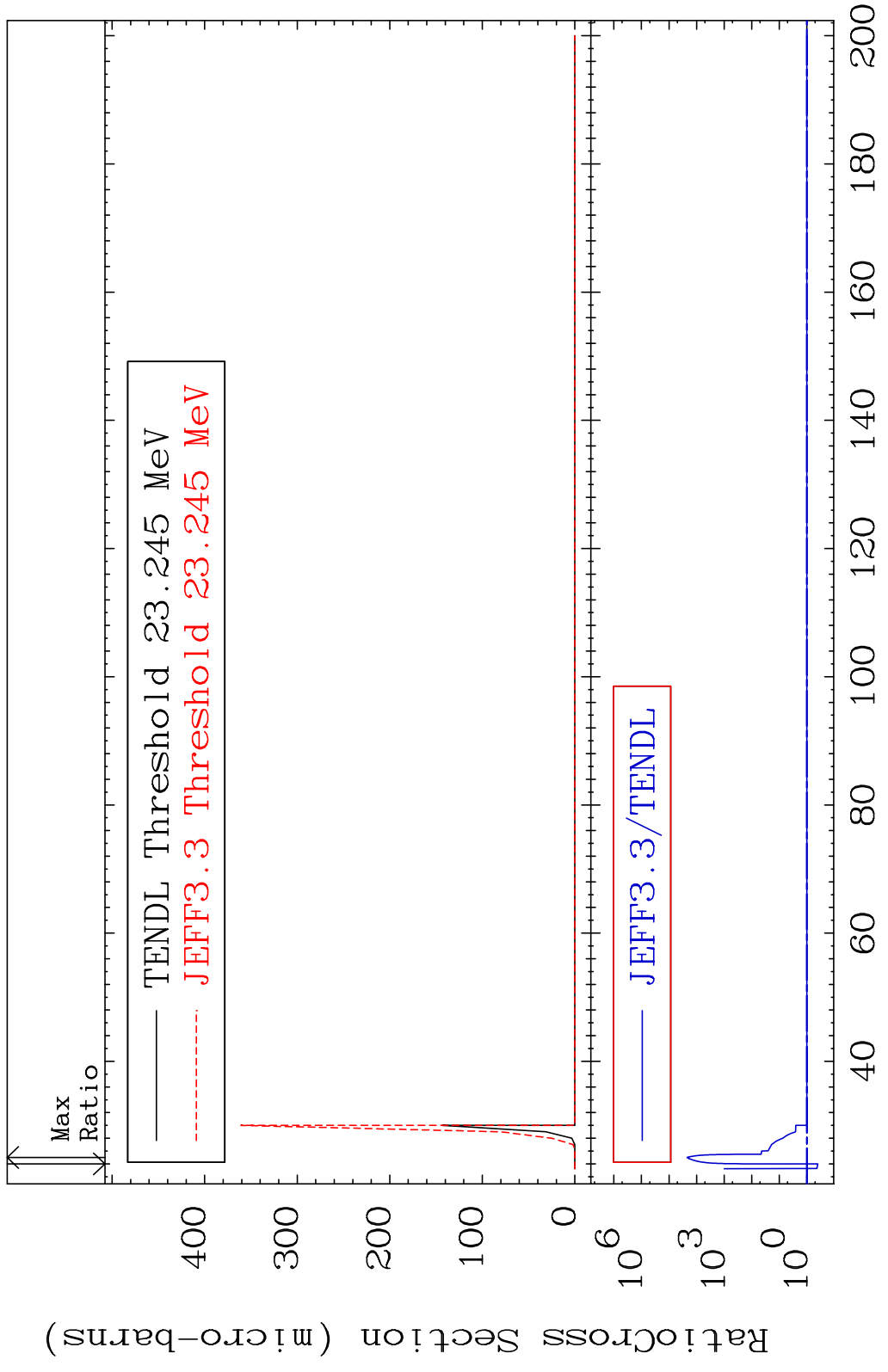


78 Incident Energy (eV) 44-Ru-99

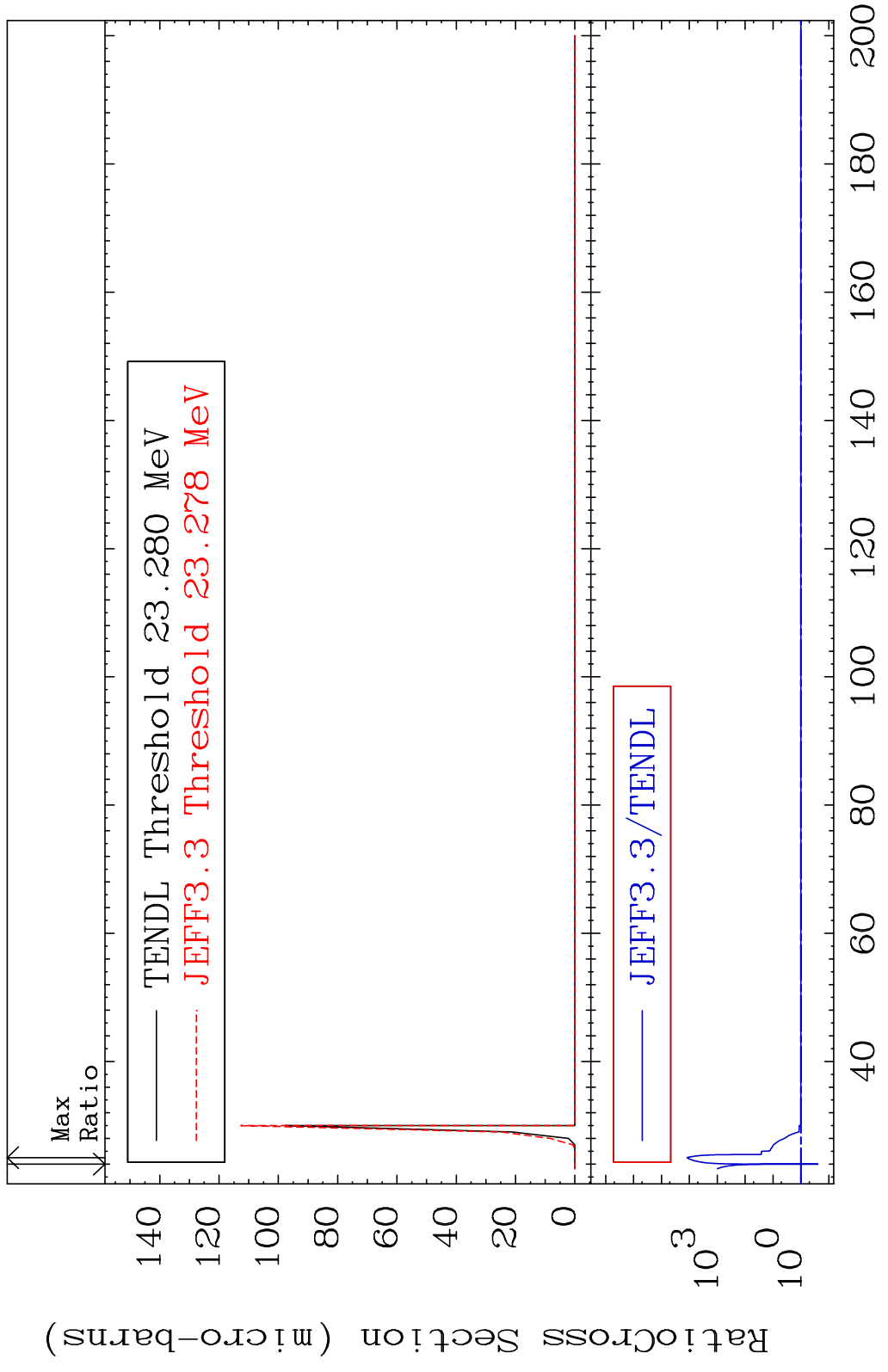
MAT 4434 Dpa disappearance (mt102 -120) 44-Ru-99
 Cross Section -99.35 To 4937. %

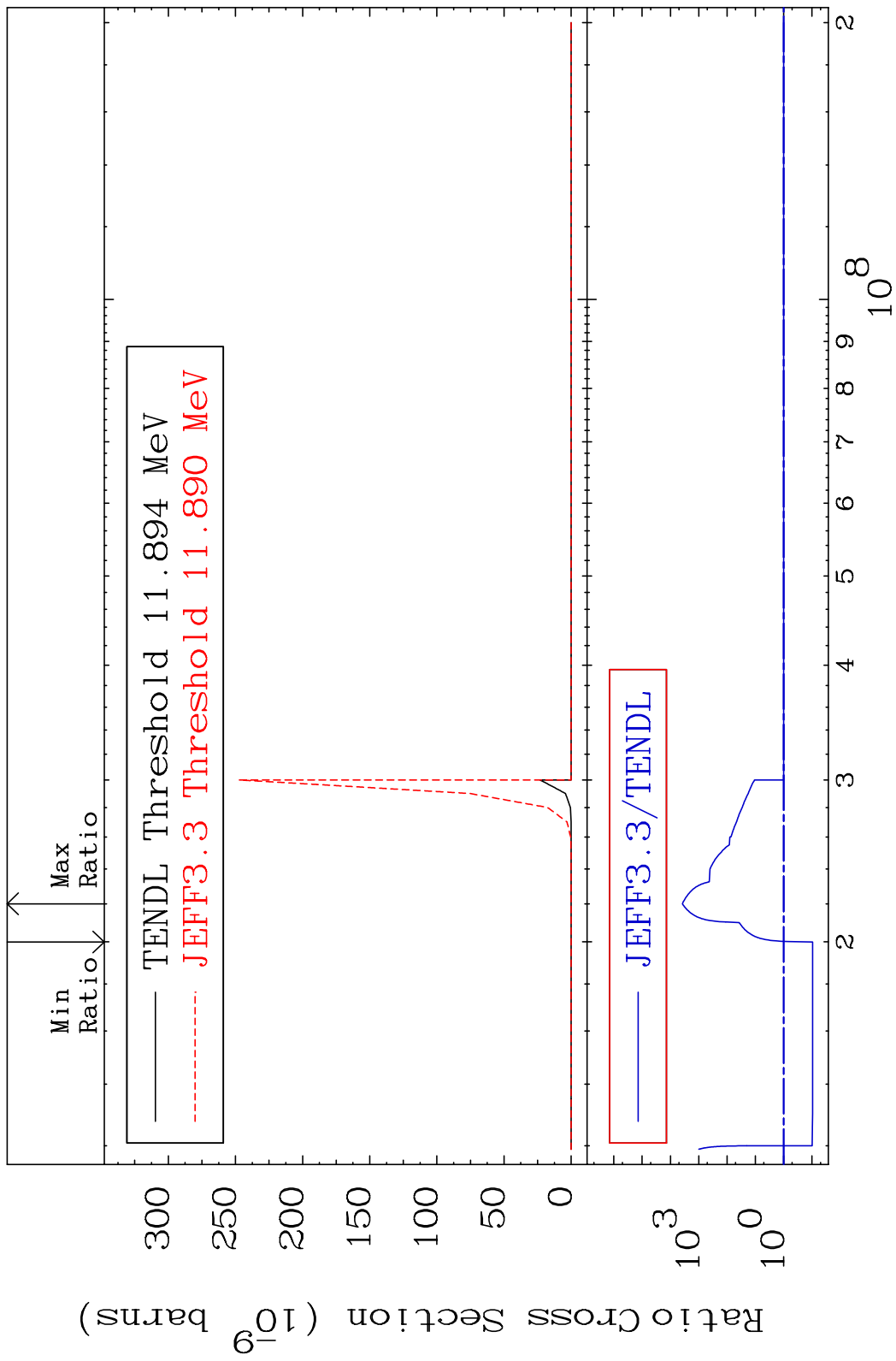


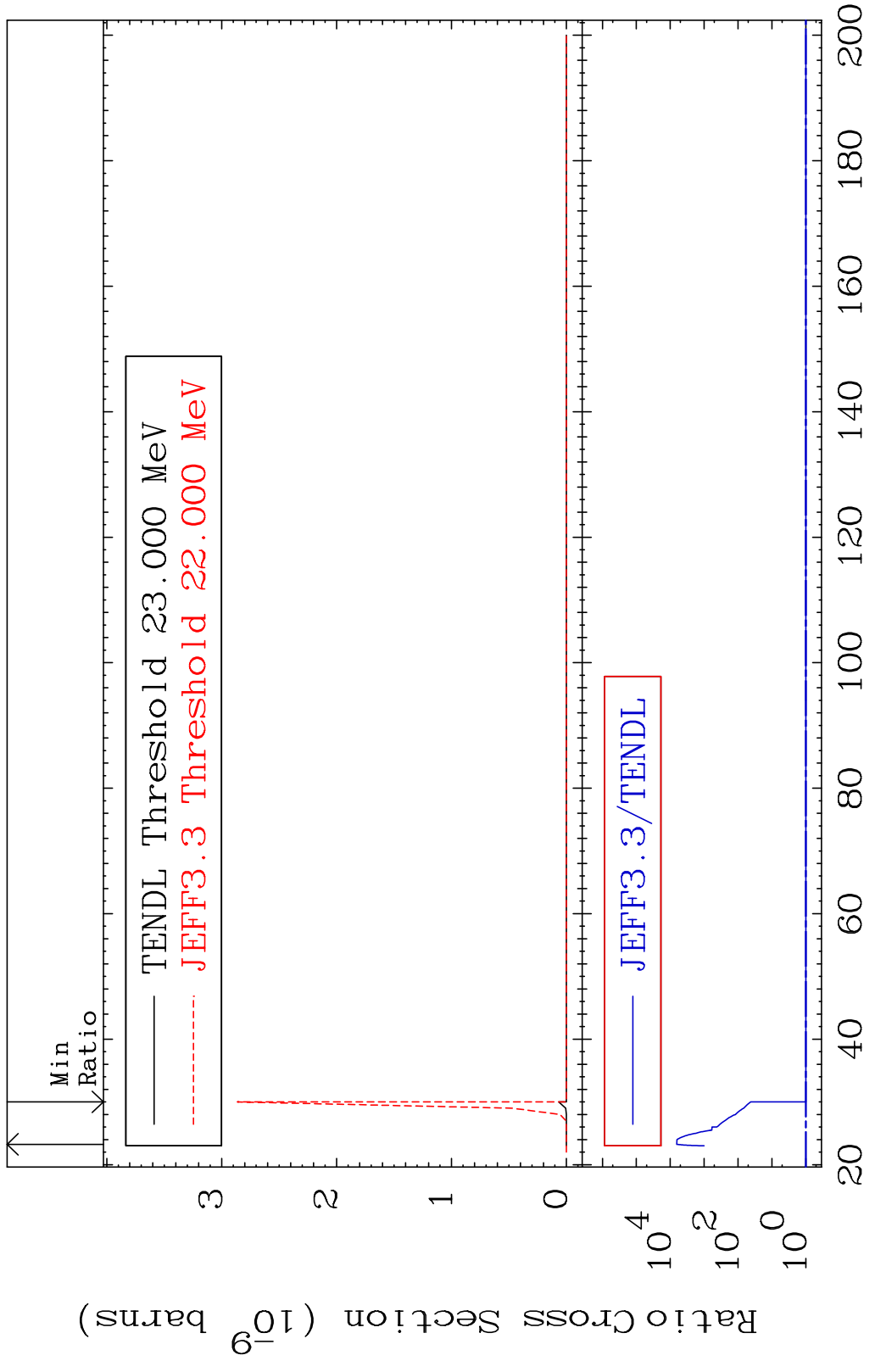
MAT 4434 (n,2n) d:43-Tc-96g 44-Ru-99
 Radionuclide Production Cross Section 59.681 d/o 9999. %

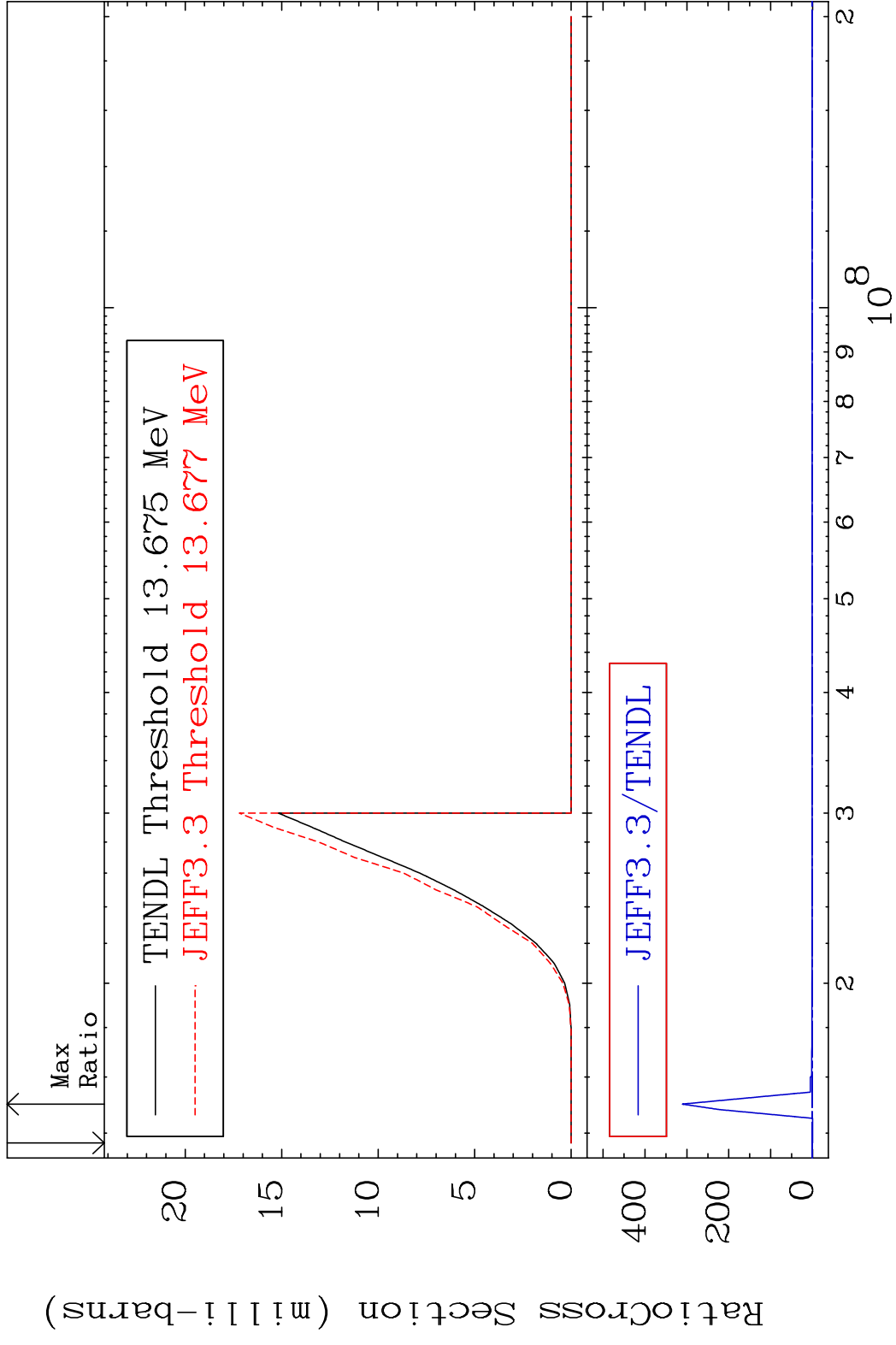


80 Incident Energy (MeV) 44-Ru-99

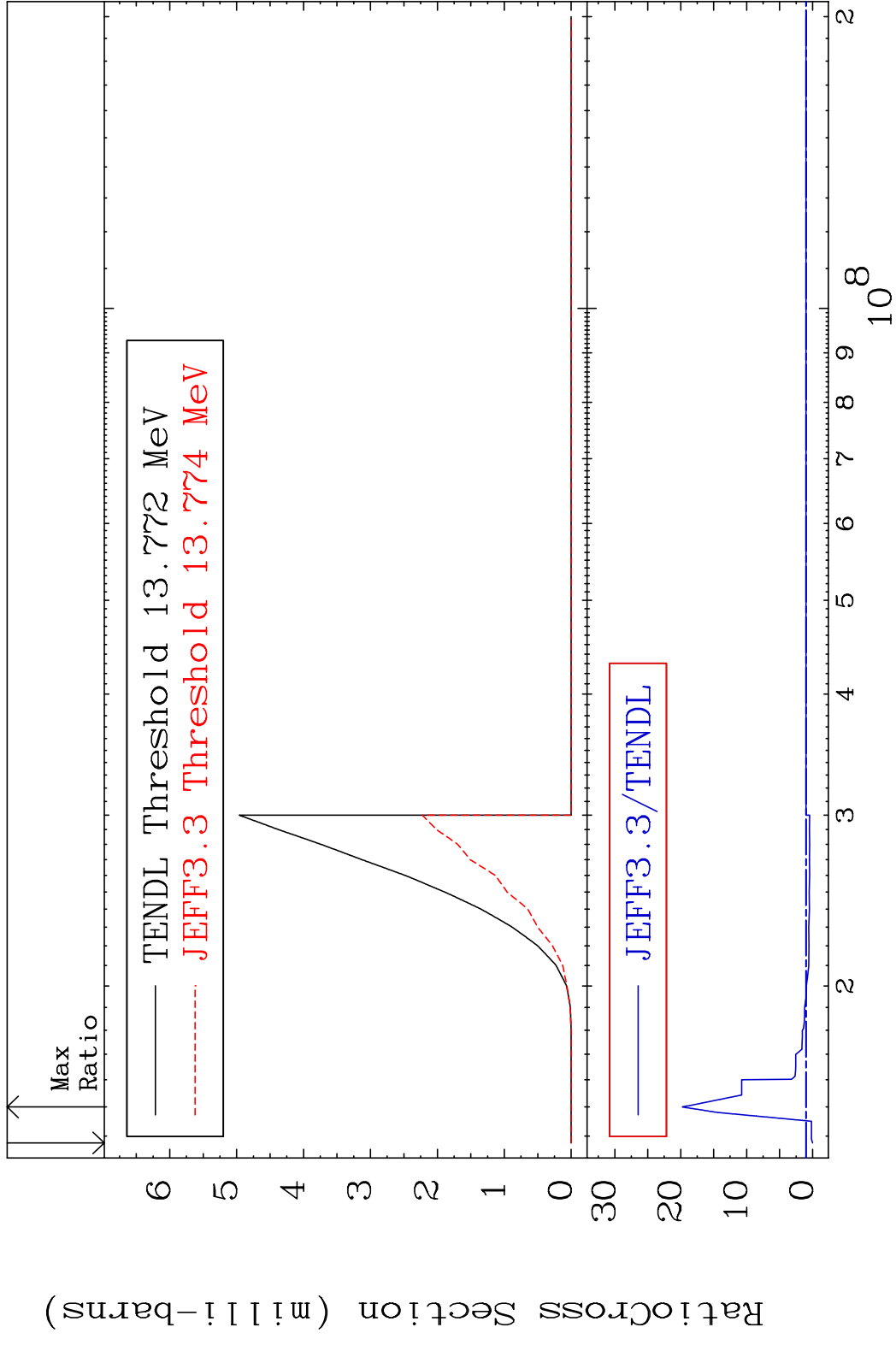




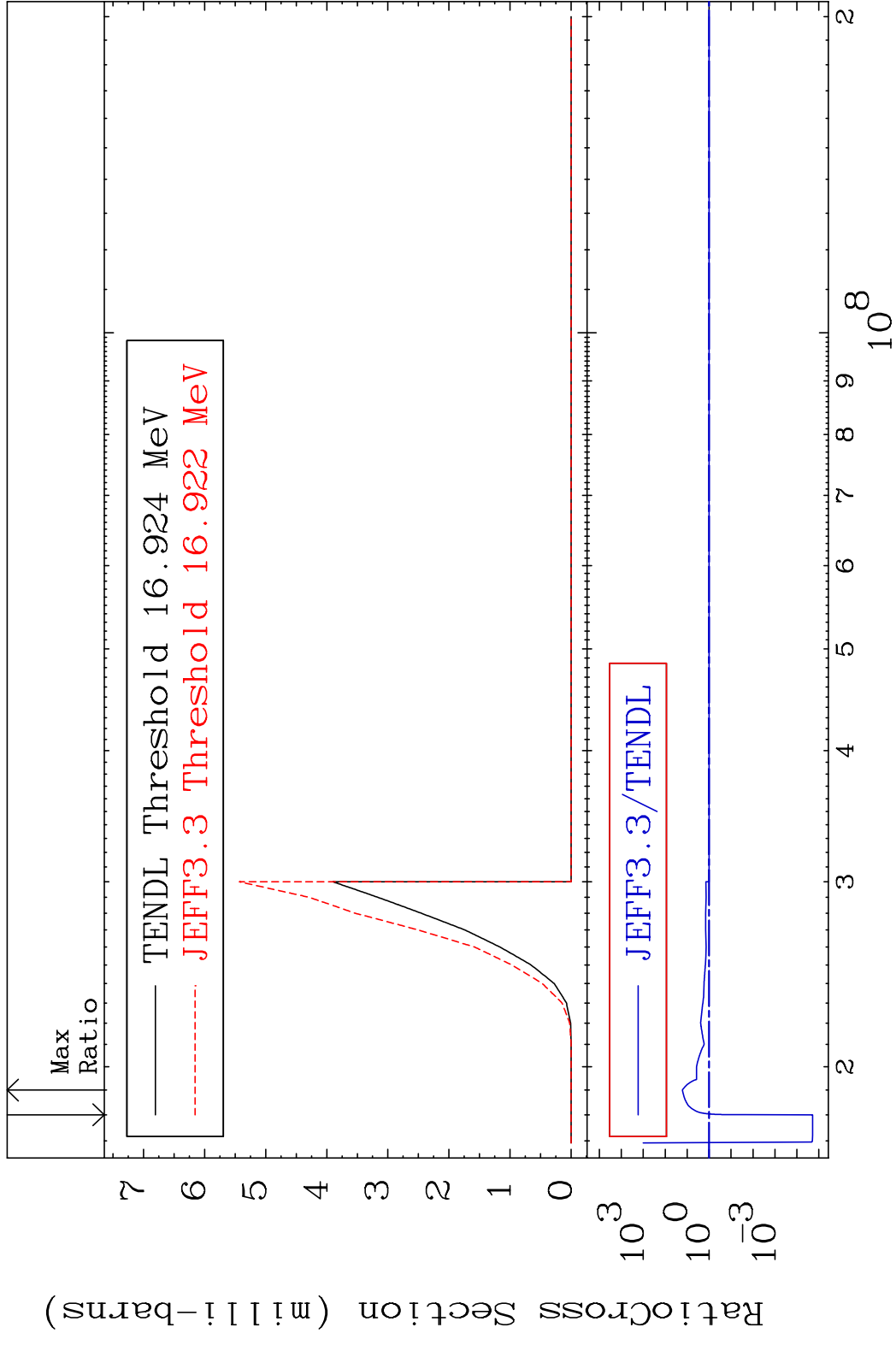




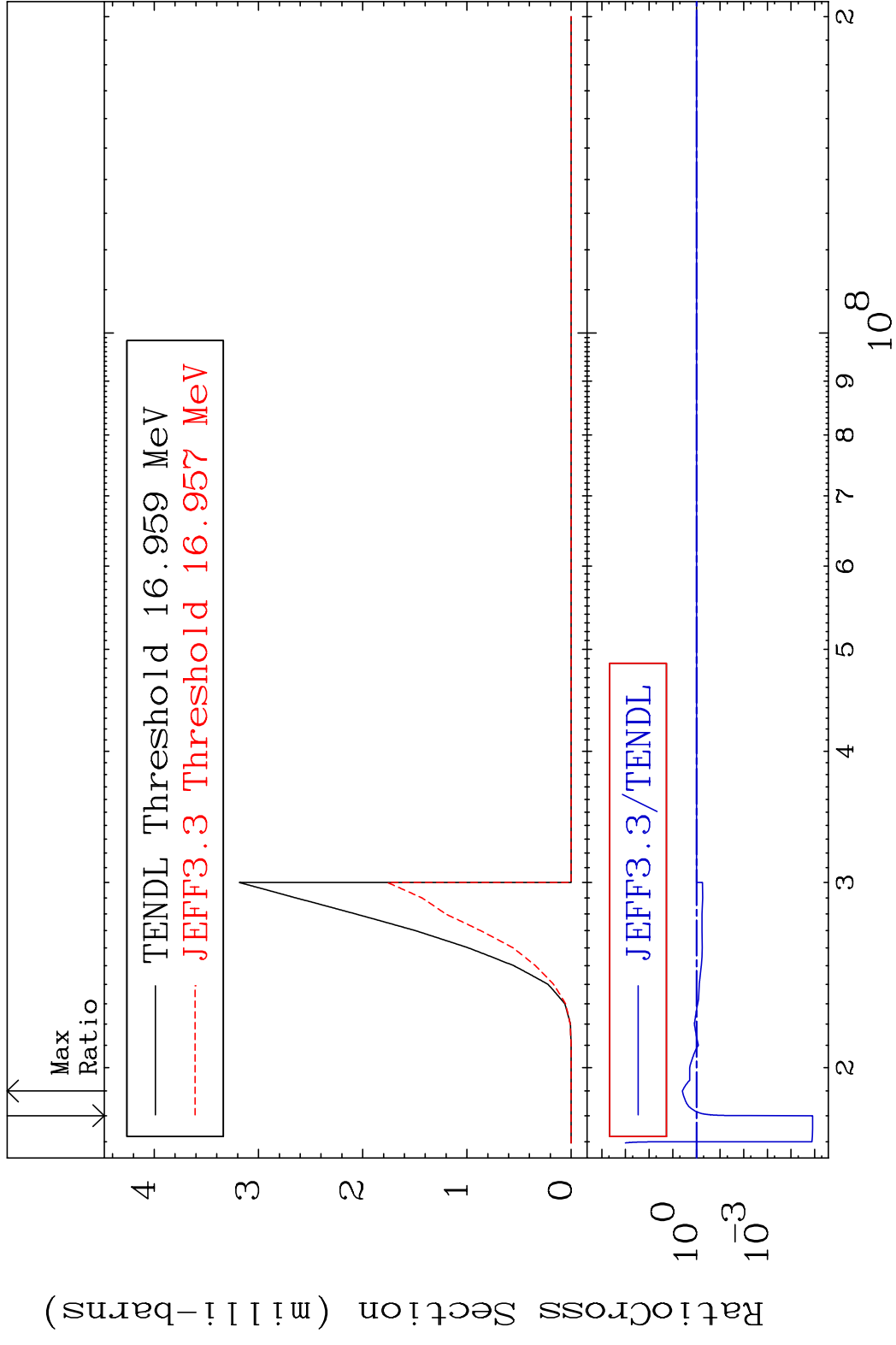
MAT 4434 (n, n') d:43-Tc-97m1 44-Ru-99
 Radionuclide Production Cross Section 1875. %

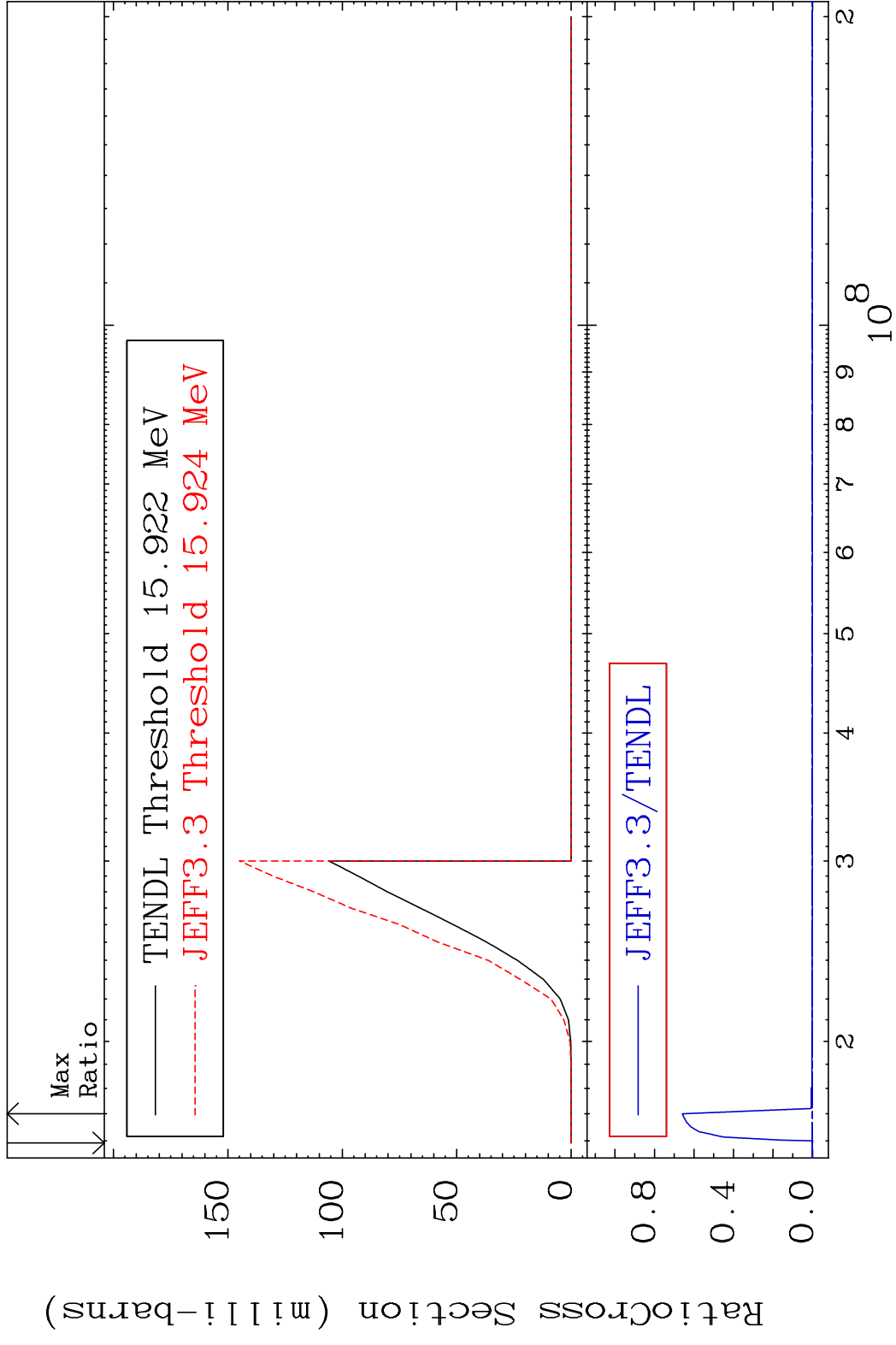


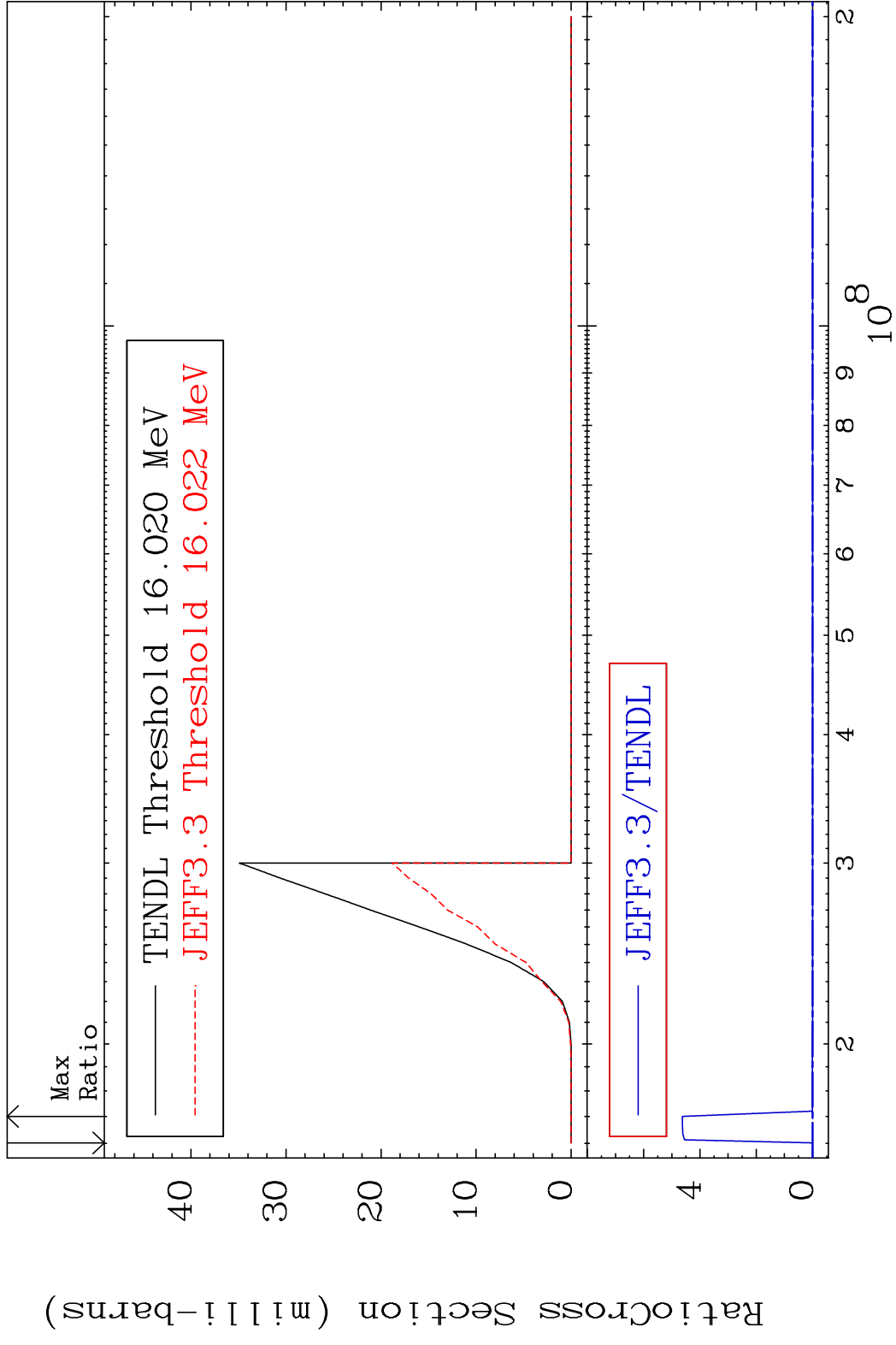
MAT 4434 (n, n') t:43-Tc-96g 44-Ru-99
 Radionuclide Production Cross Section 1553. %

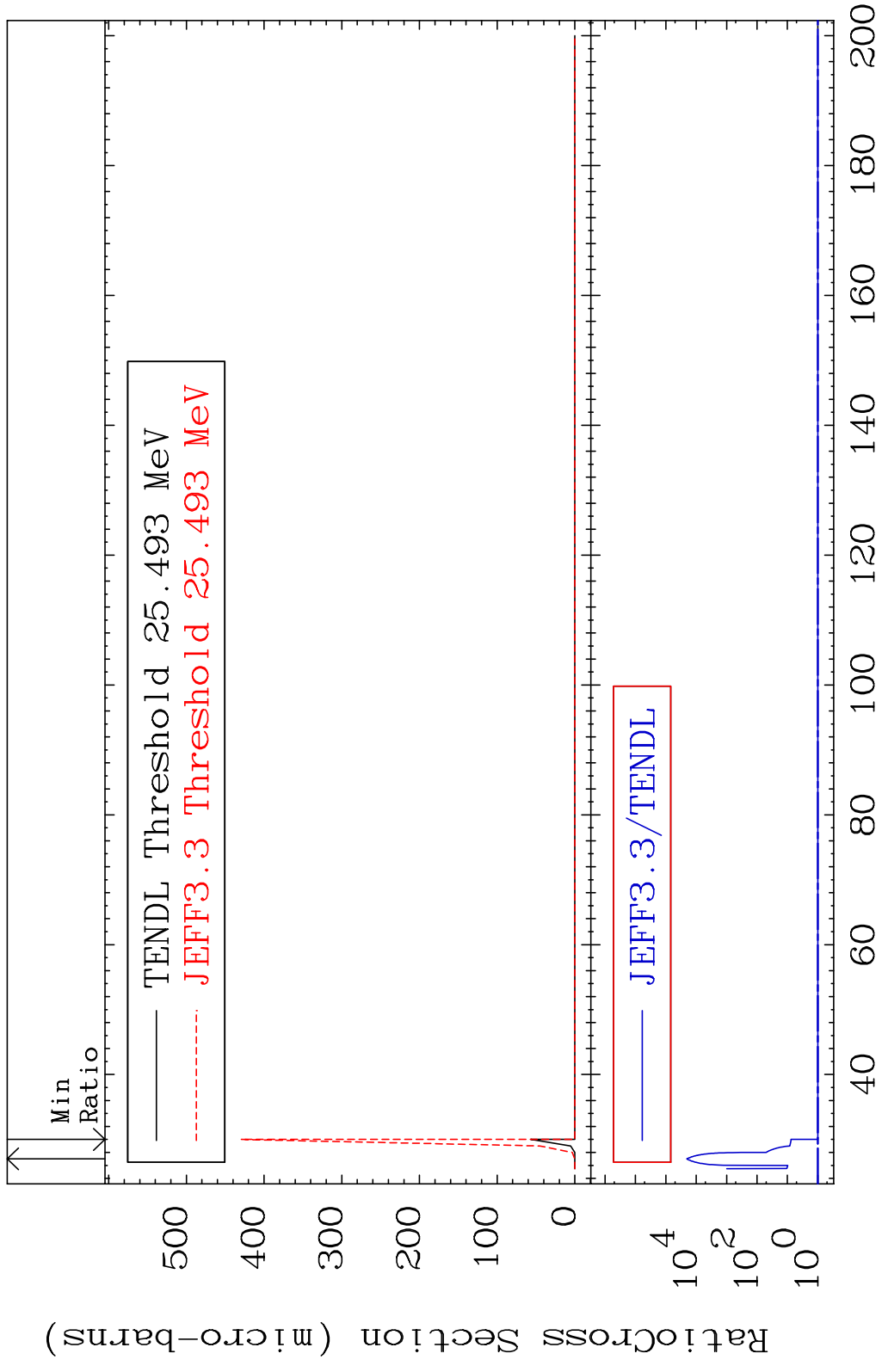


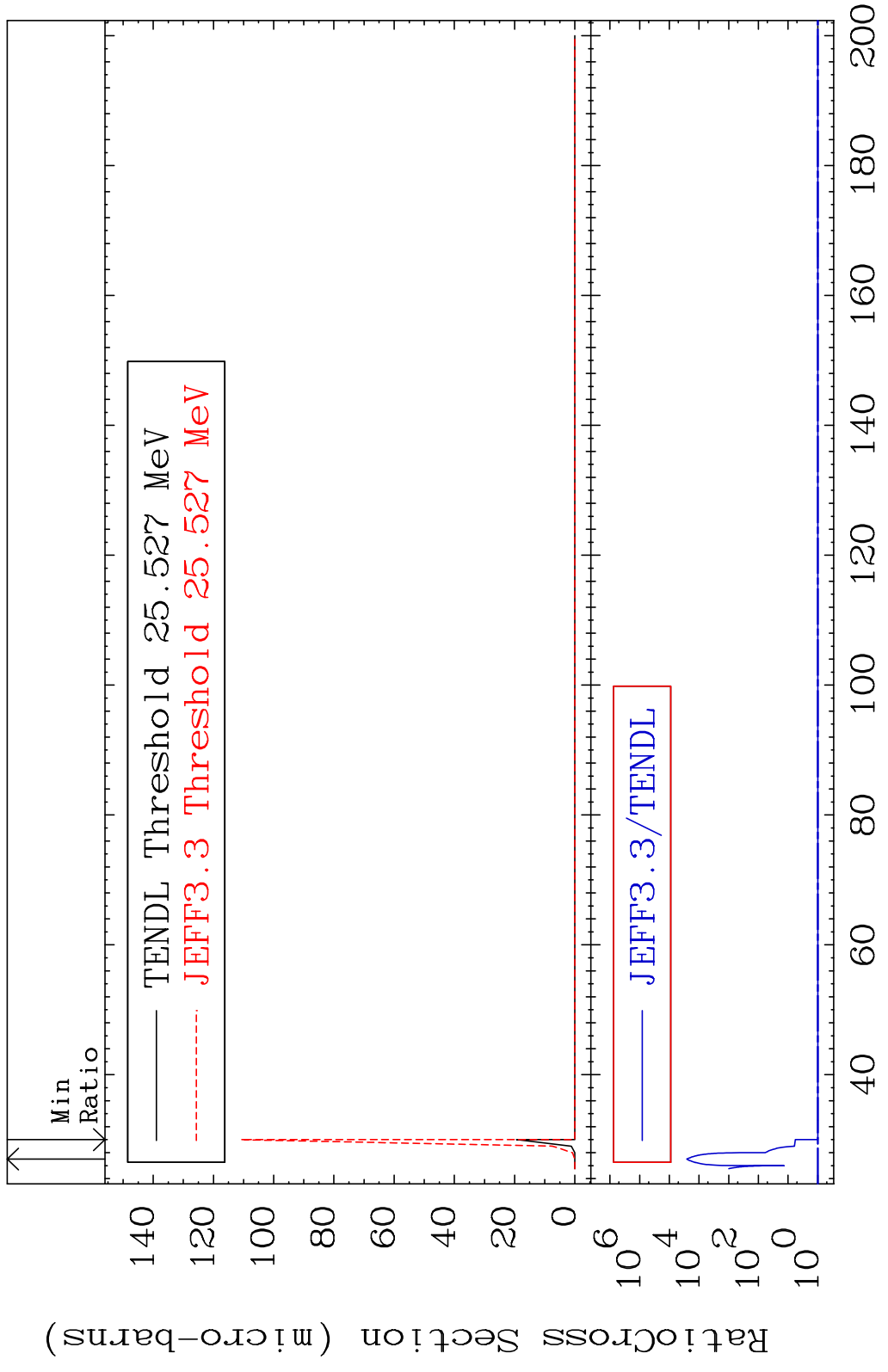
MAT 4434 (n, n') t:43-Tc-96m1 44-Ru-99
 Radionuclide Production Cross Section Ratio 293.6 %

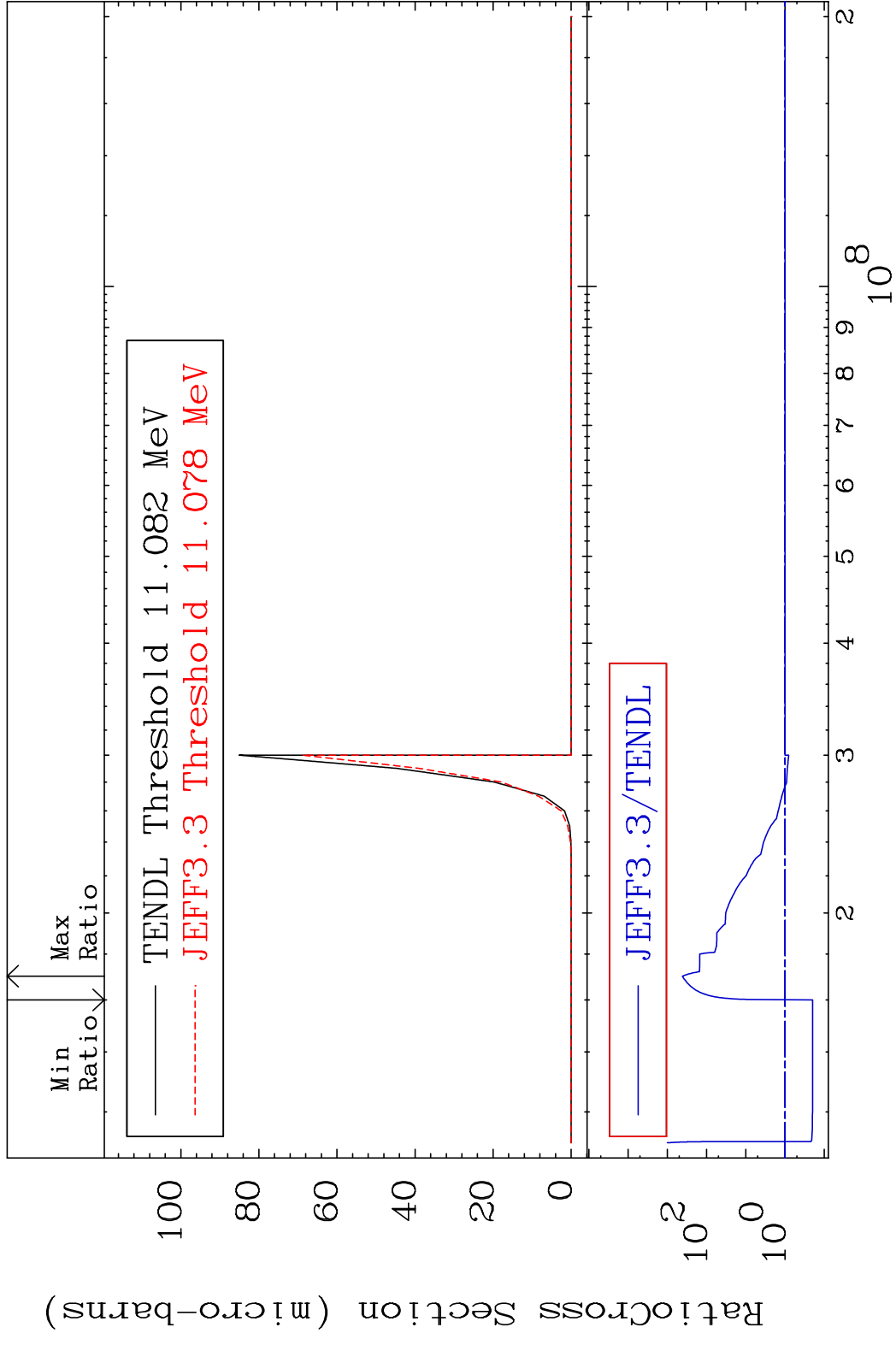


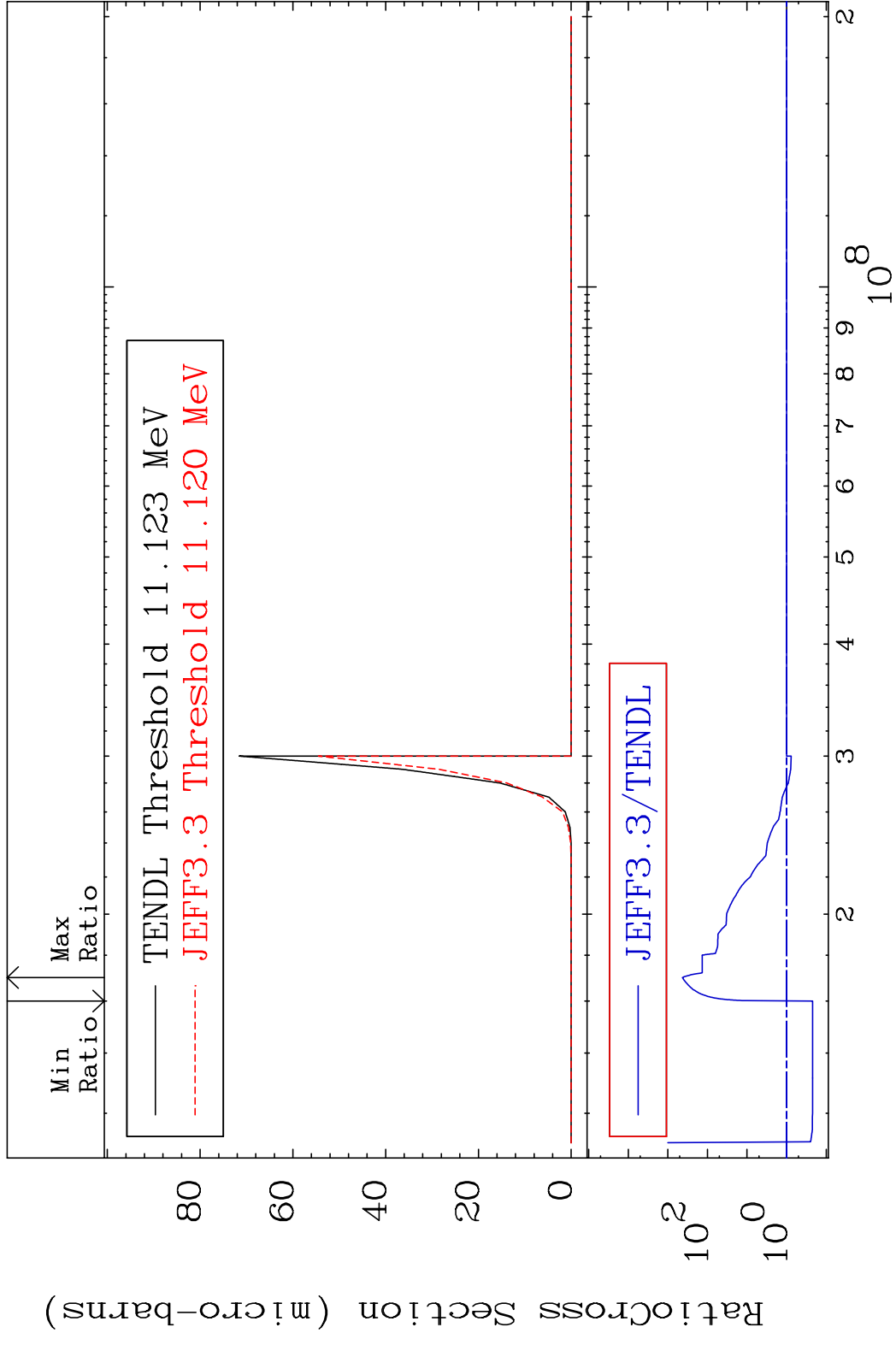




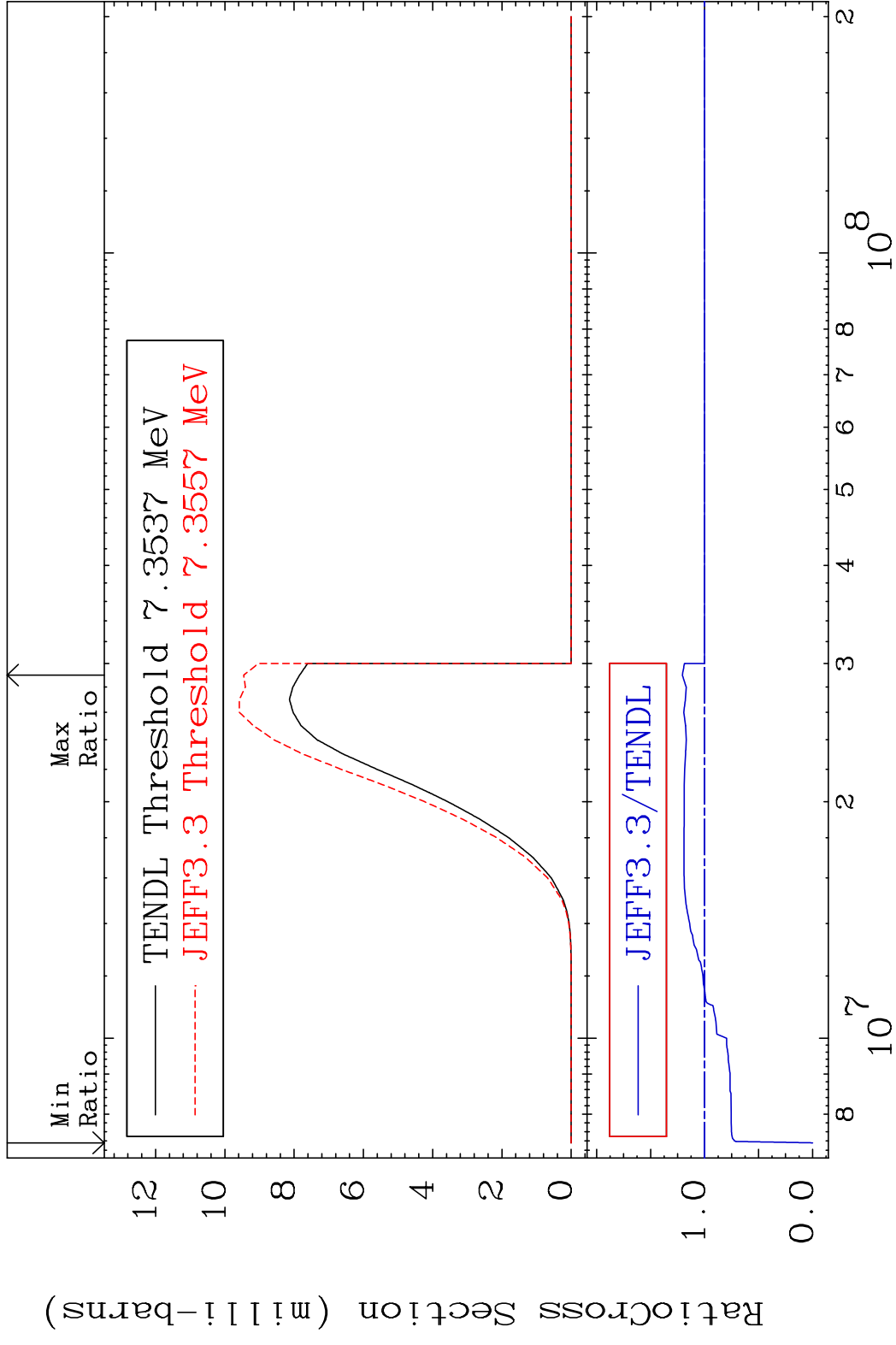




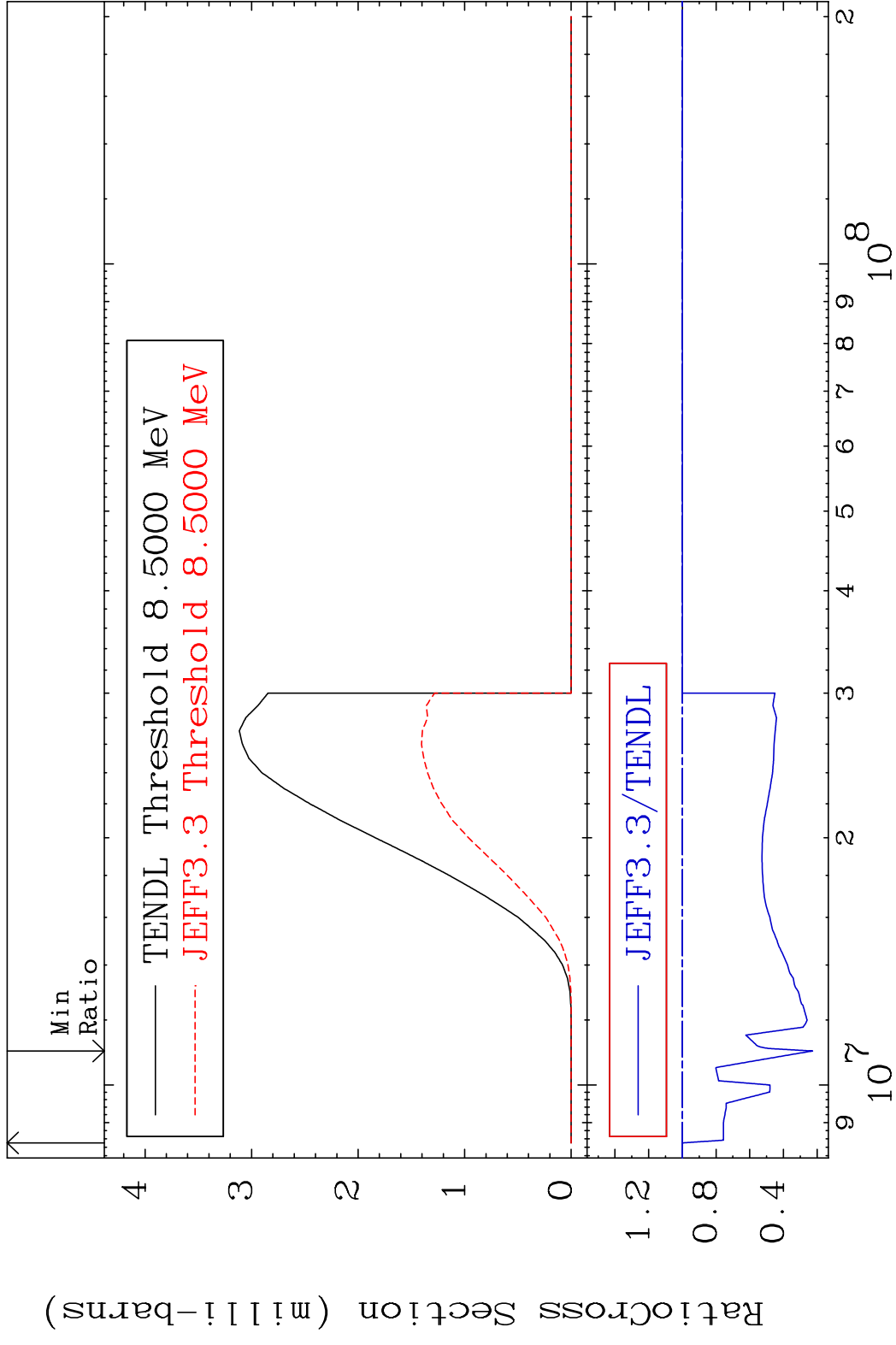




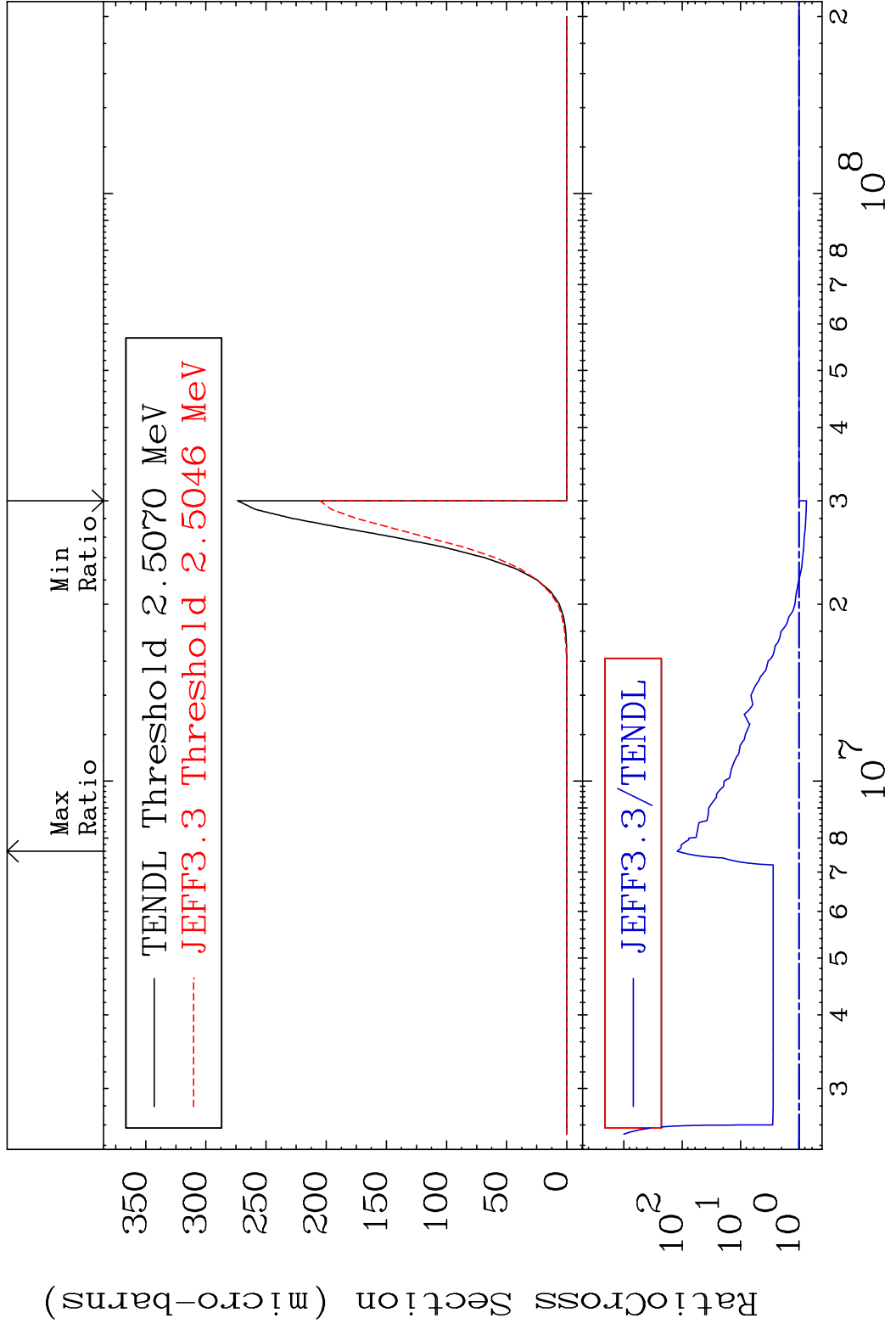
MAT 4434 (n, t): 43-Tc-97g 44-Ru-99
 Radionuclide Production Cross Section Ratio 20.59 %

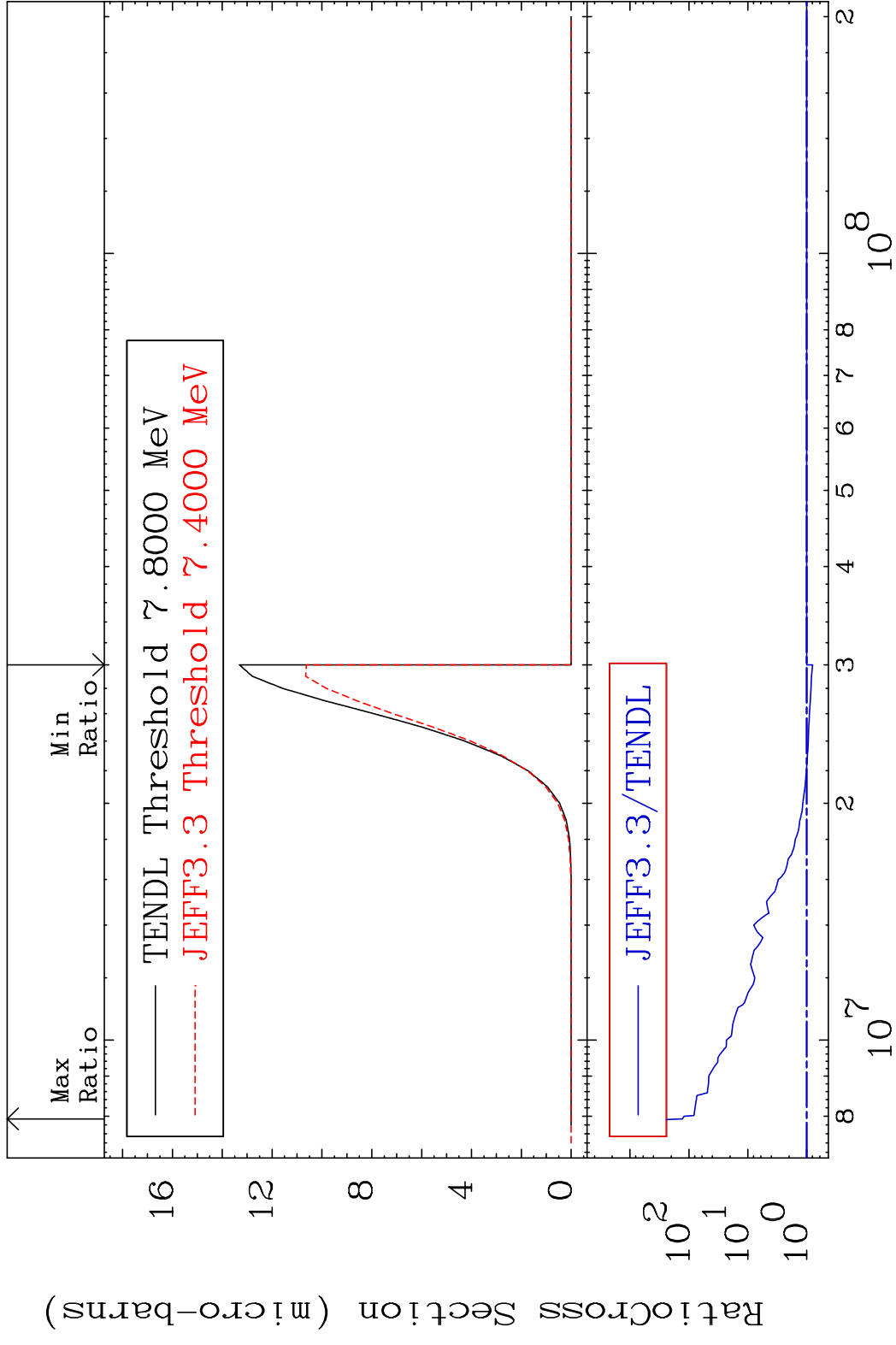


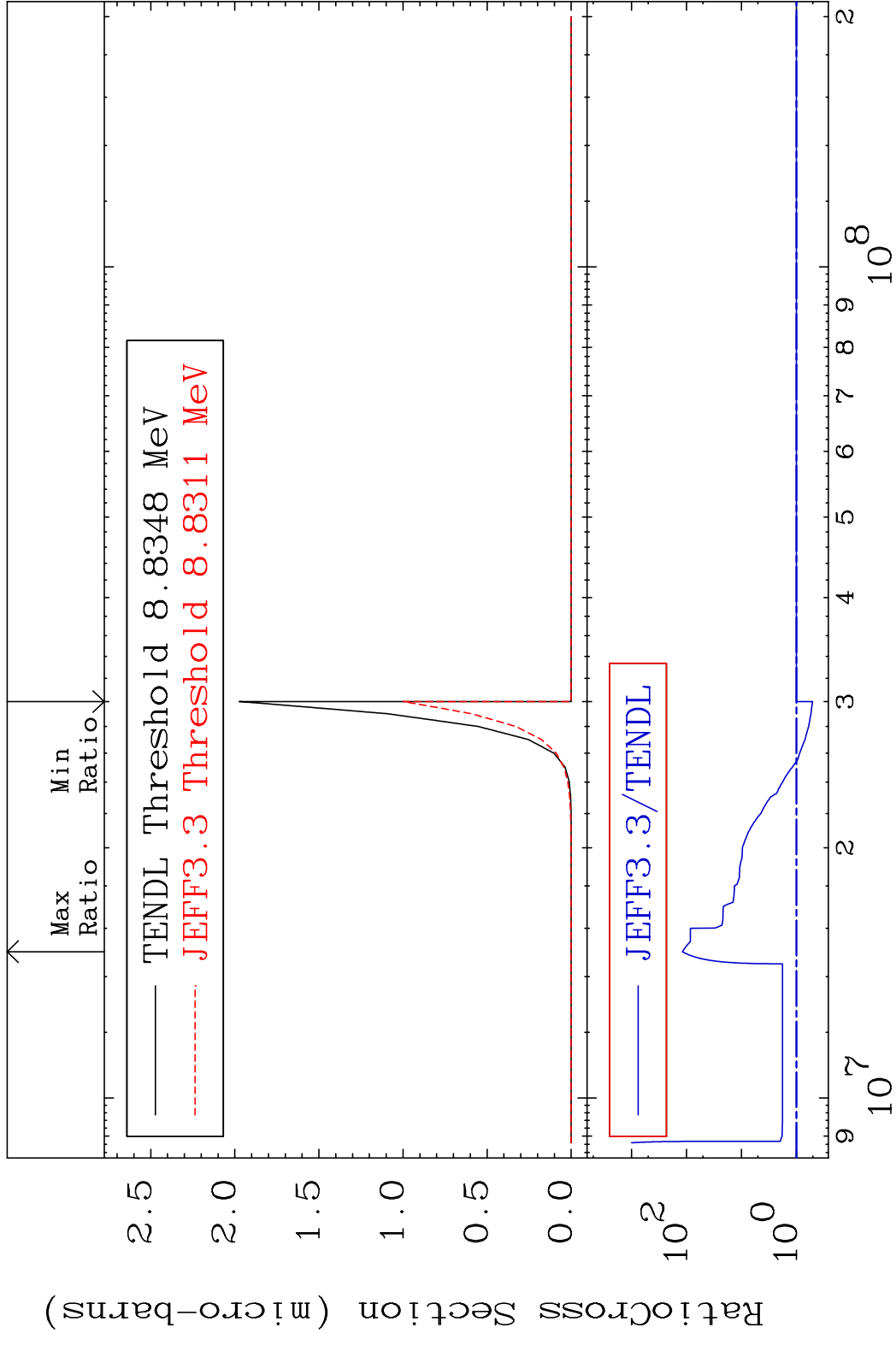
MAT 4434 (n, t): 43-Tc-97m1 44-Ru-99
 Radionuclide Production Cross Section 0.000 %



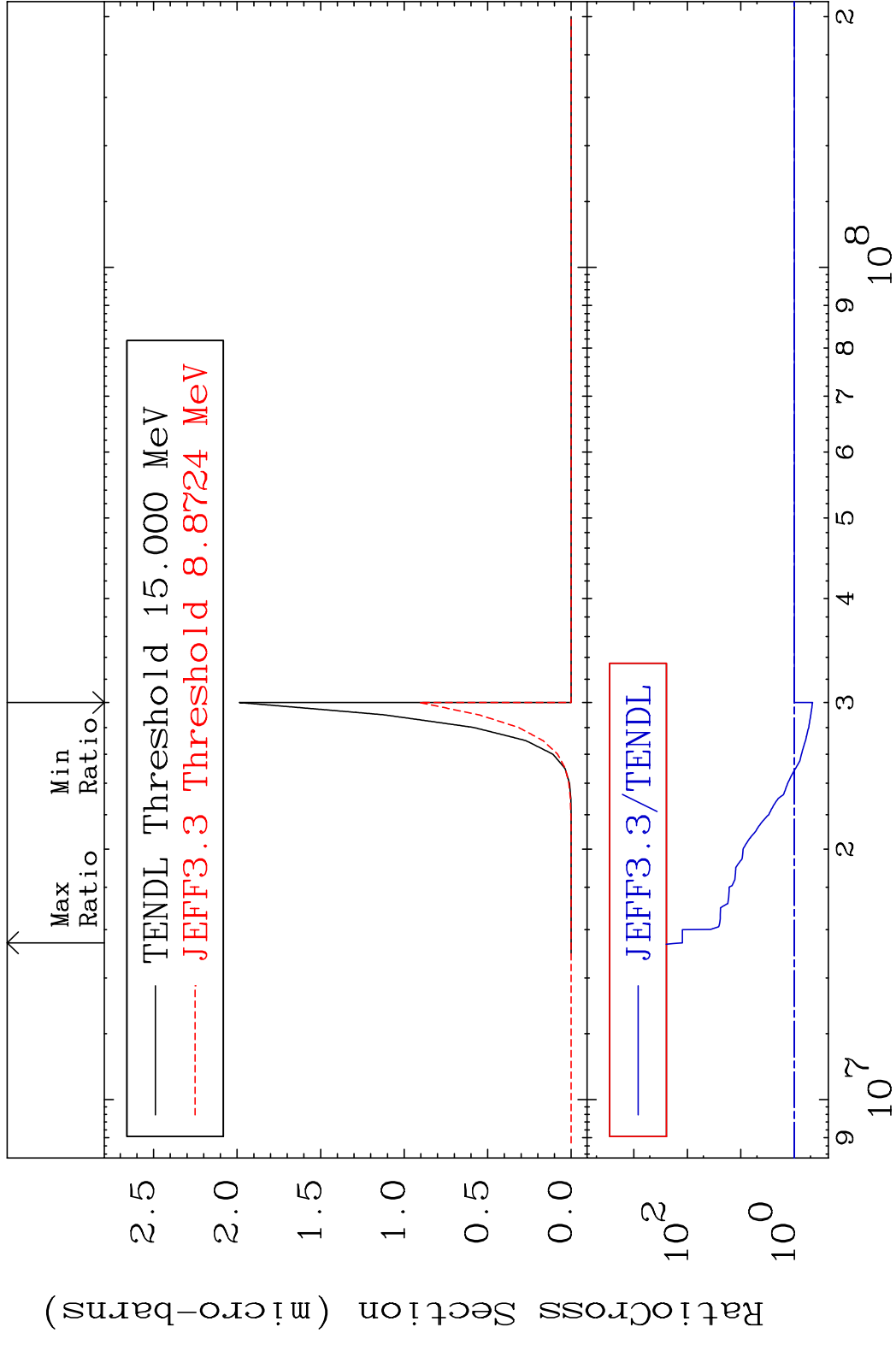
95 Incident Energy (eV) 44-Ru-99







MAT 4434 (n, d) α :41-Nb-94m1 44-Ru-99
 Radionuclide Production Cross Section 51e23id10 9999. %



99 Incident Energy (eV) 44-Ru-99