

Program Complot
(Version 2021-1)

by

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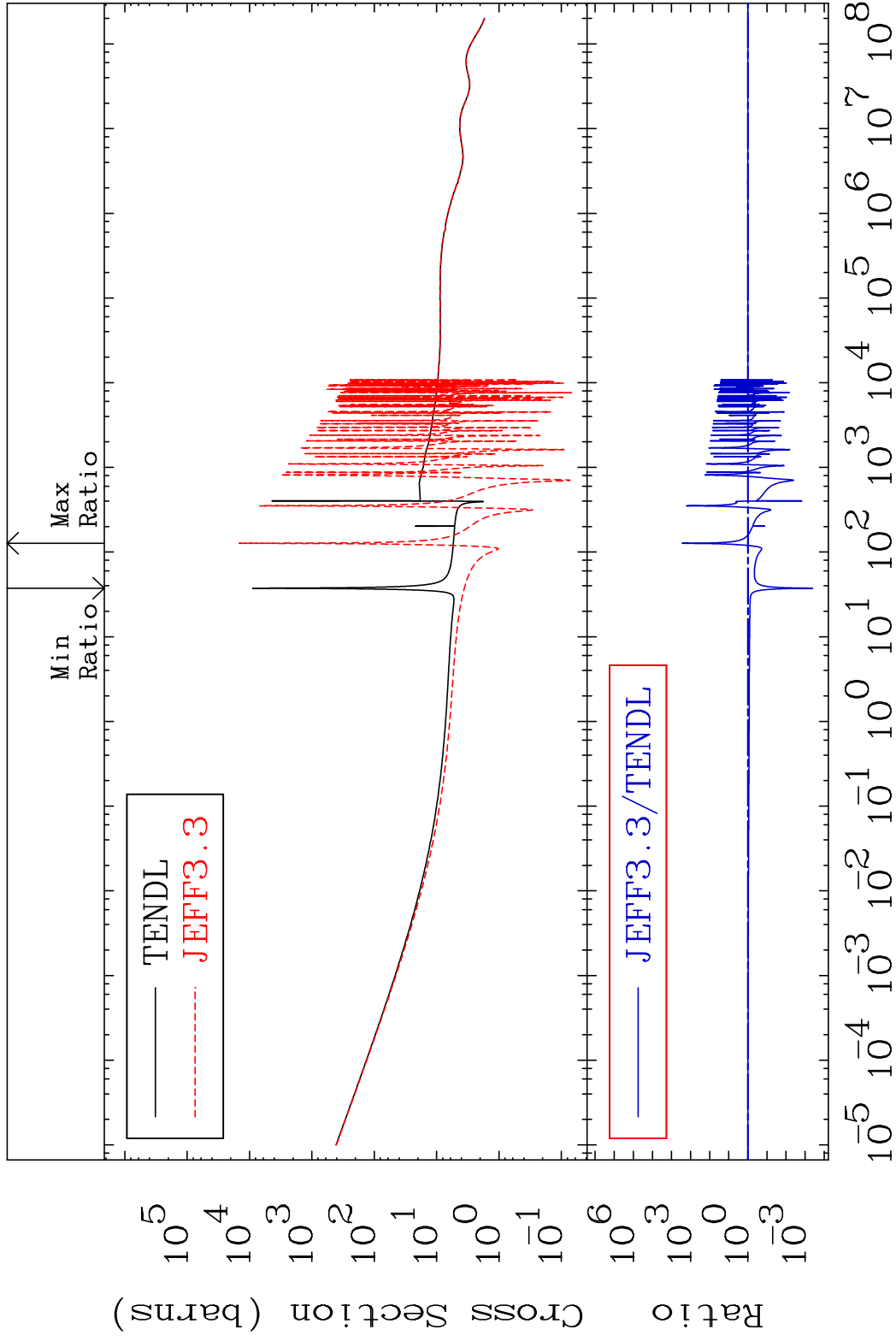
Press Mouse Button to Start

MAT 4431

Total

44-Ru-98

Cross Section -99.96 To 9999. %



1

Incident Energy (eV)

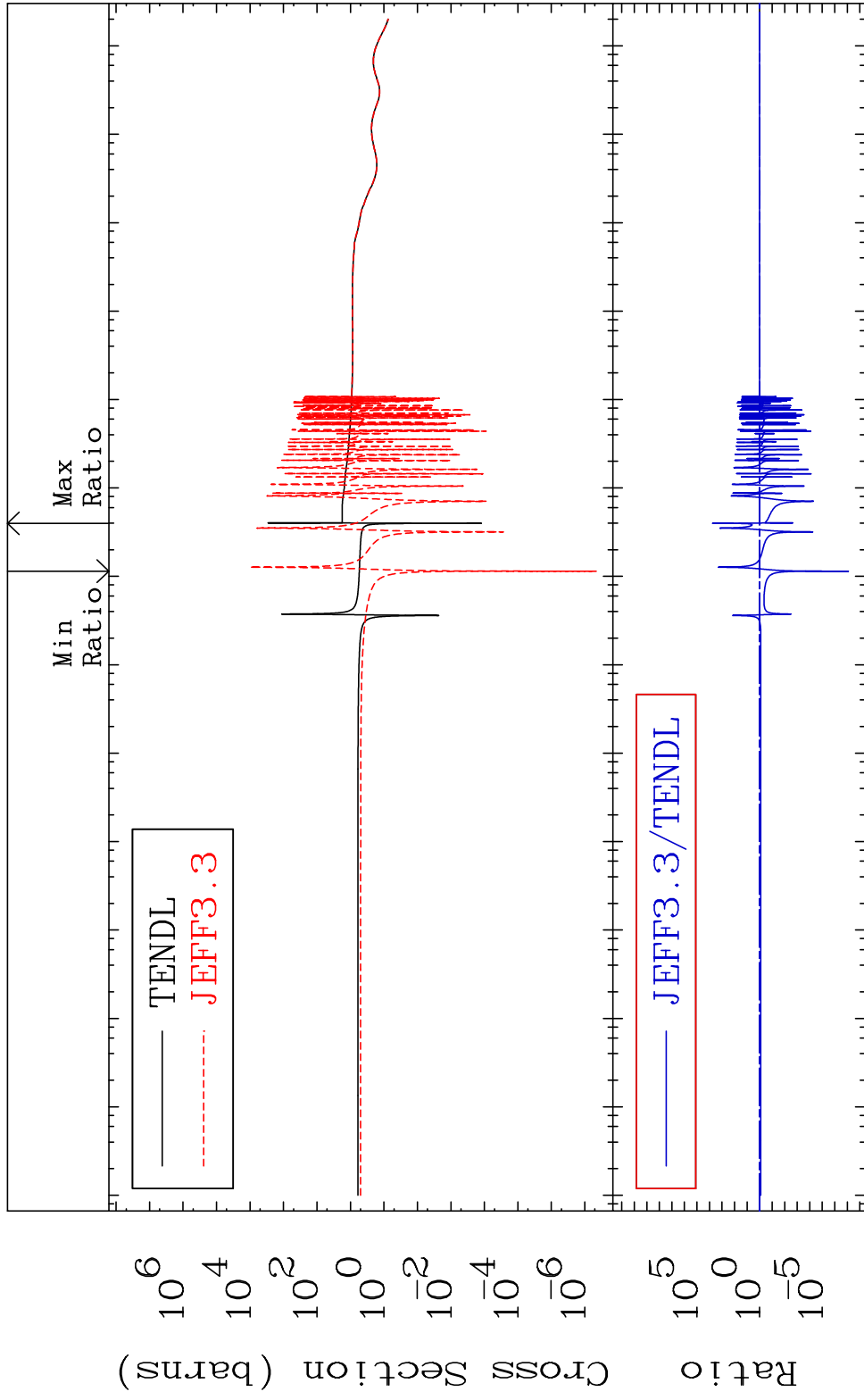
44-Ru-98

MAT 4431

Elastic

44-Ru-98

Cross Section -100.0 To 9999. %



2

Incident Energy (eV)

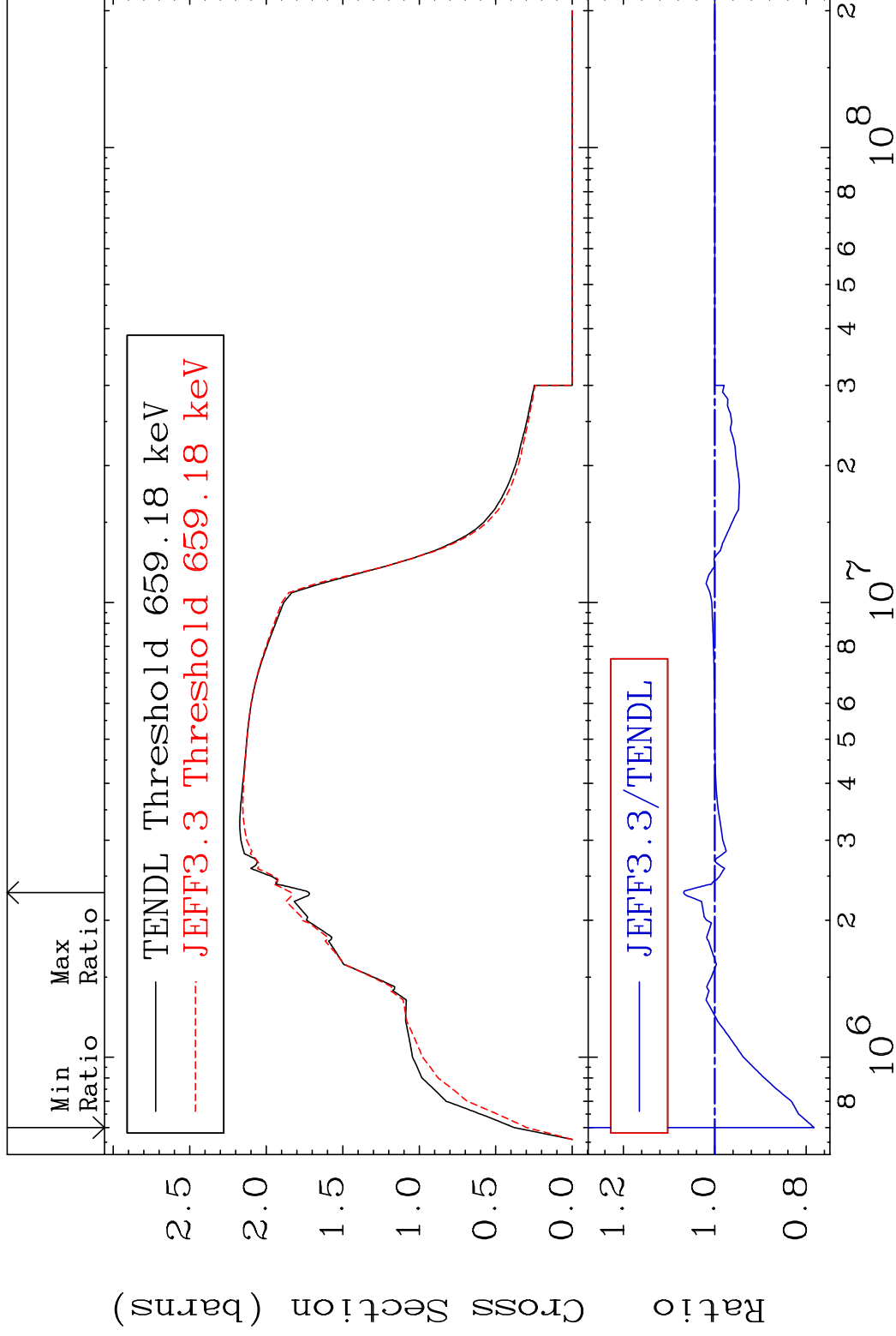
44-Ru-98

MAT 4431

Inelastic

44-Ru-98

Cross Section -21.72 To 6.798 %



3

Incident Energy (eV)

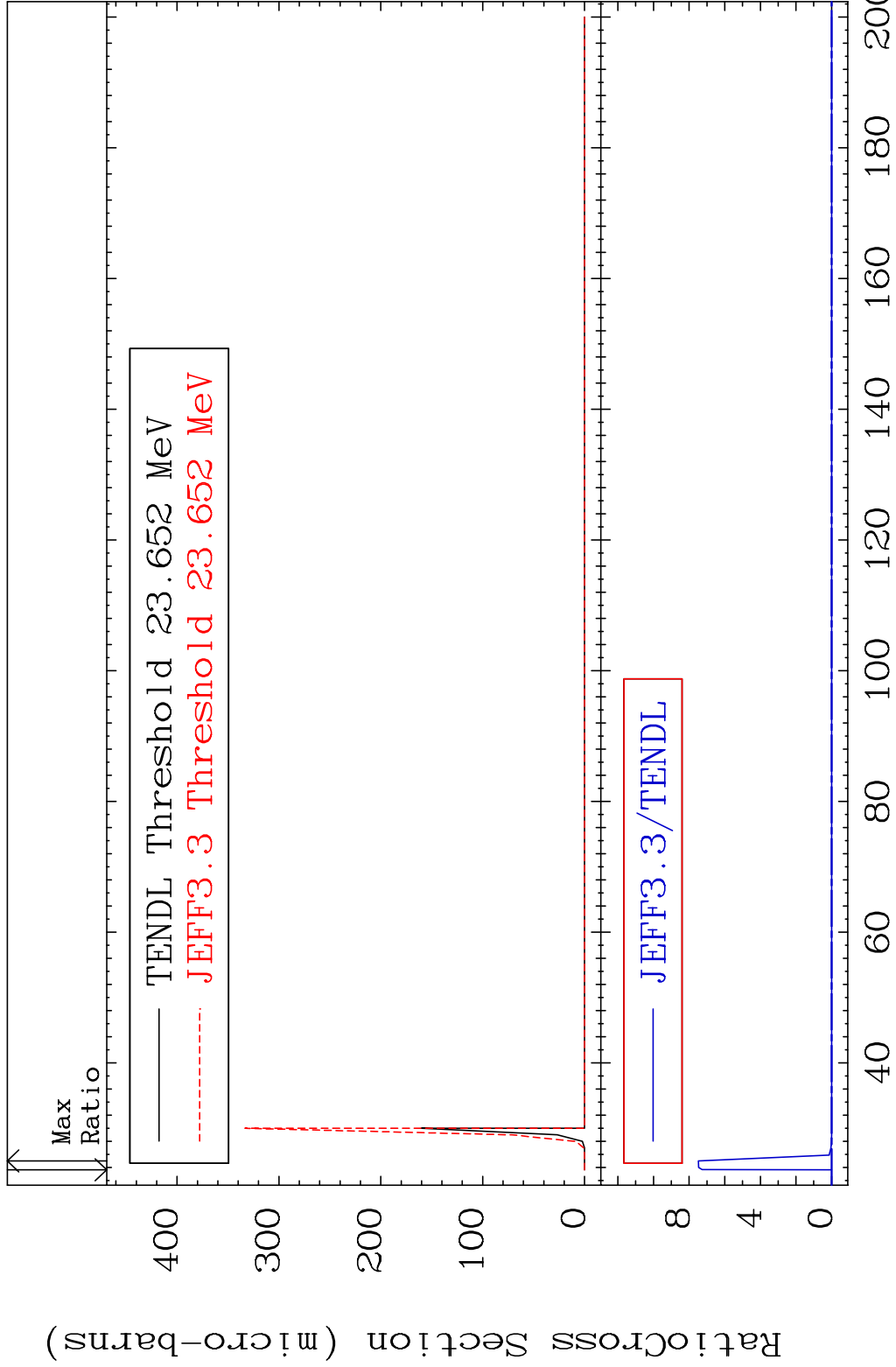
44-Ru-98

MAT 4431

(n,2n) d

44-Ru-98

Cross Section -100.0 To 9999. %



4

Incident Energy (MeV)

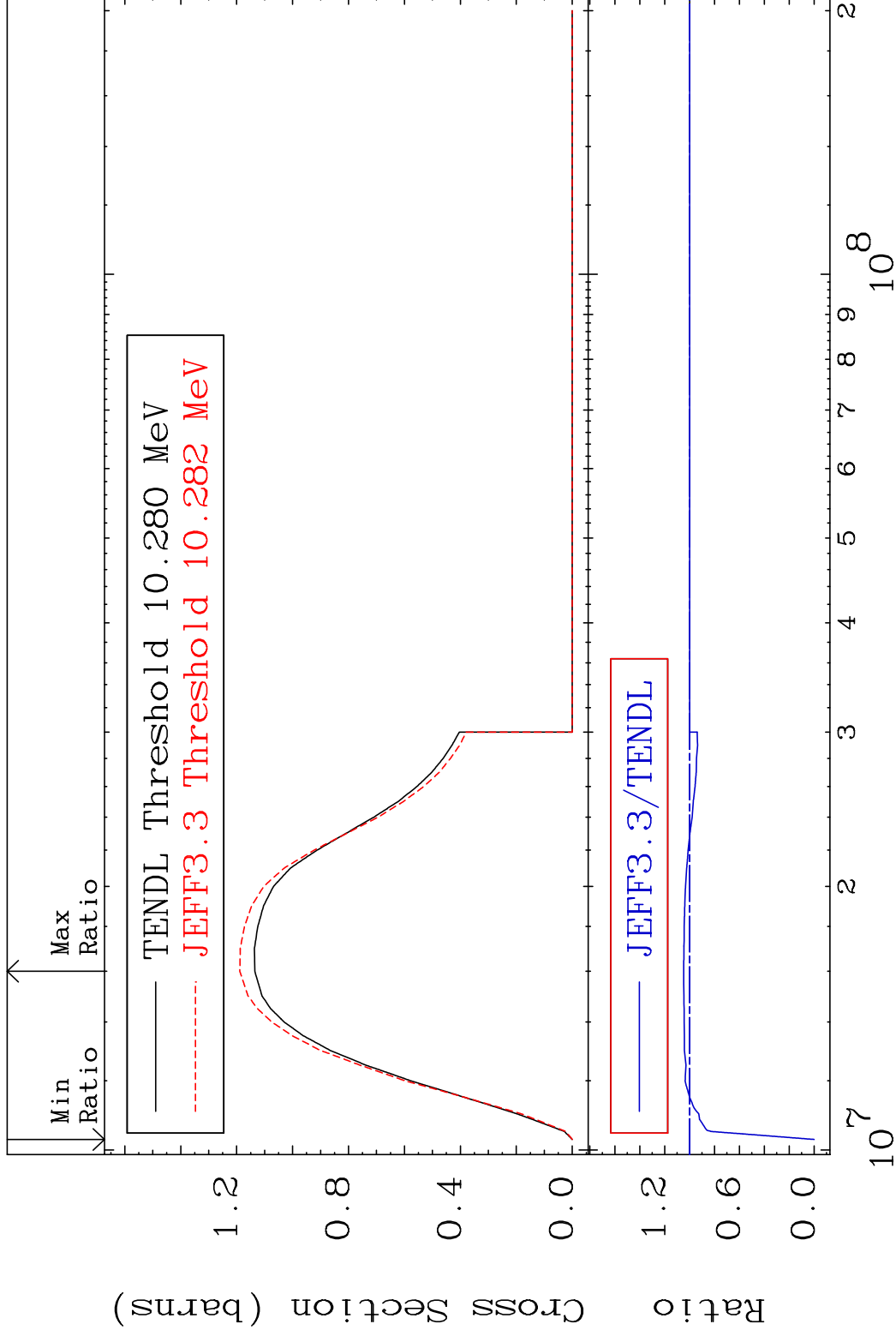
44-Ru-98

MAT 4431

(n,2n)

44-Ru-98

Cross Section -100.0 To 4.728 %



5

Incident Energy (eV)

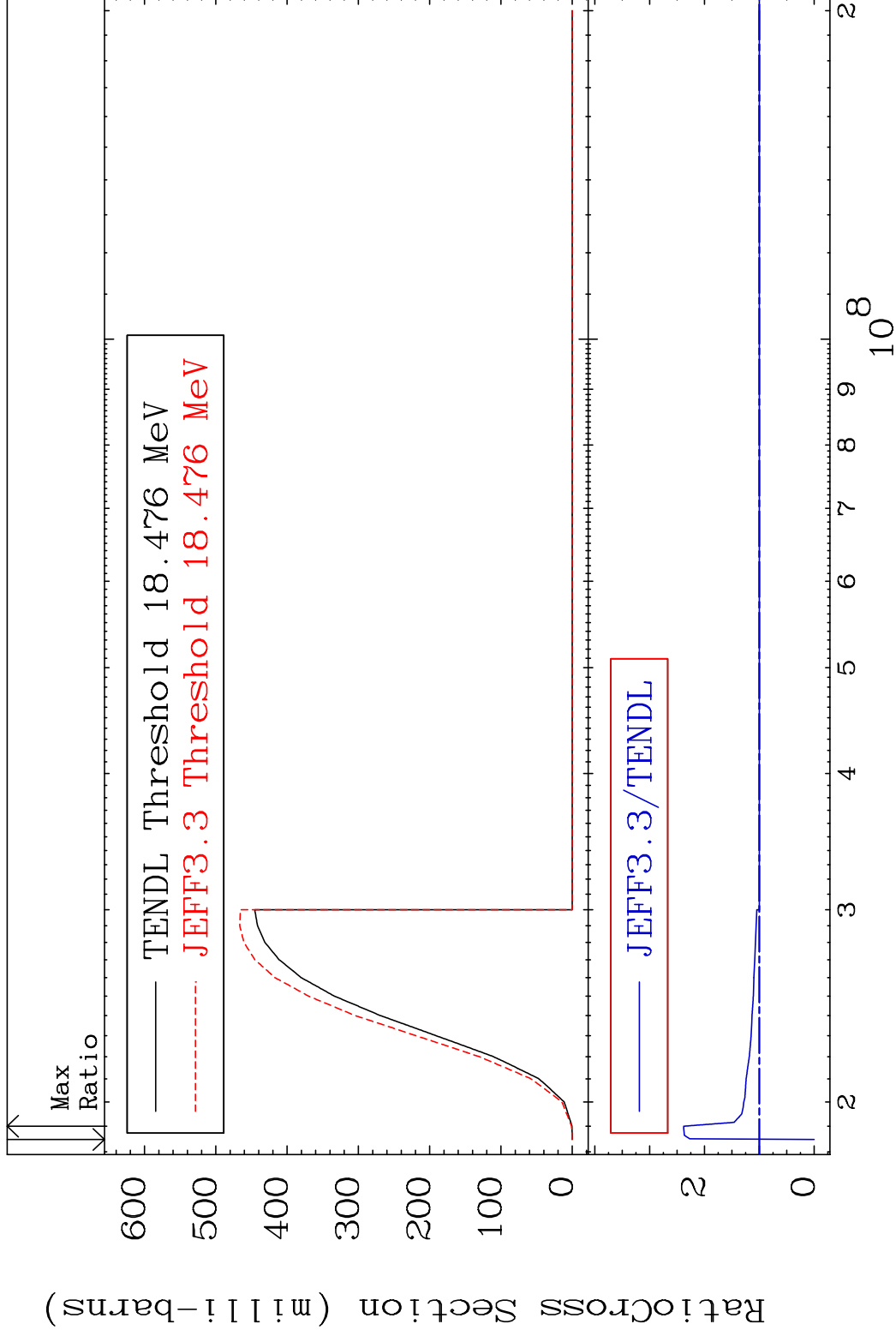
44-Ru-98

MAT 4431

(n,3n)

44-Ru-98

Cross Section -100.0 To 137.9 %



6

Incident Energy (eV)

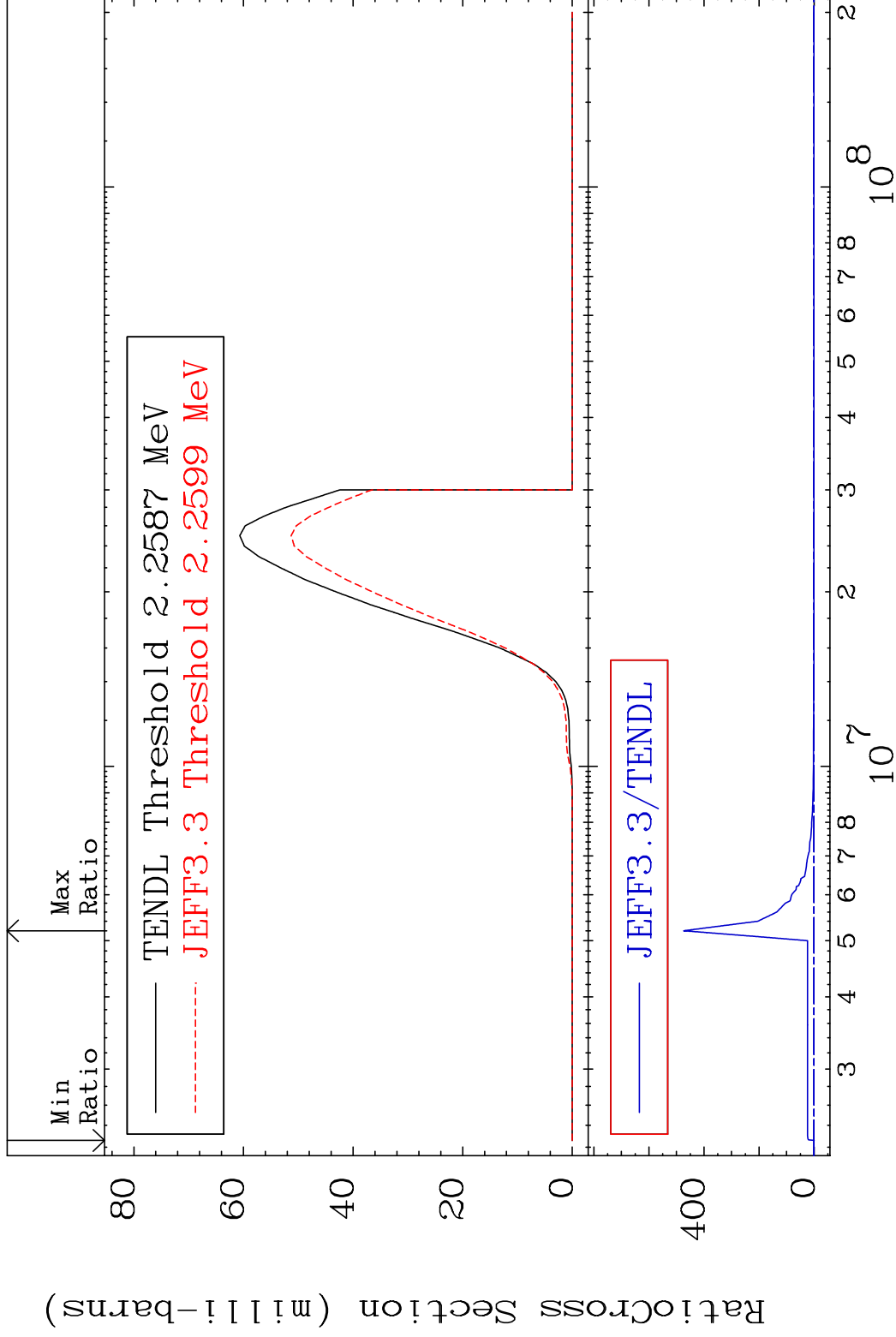
44-Ru-98

MAT 4431

(n, n') α

44-Ru-98

Cross Section -100.0 To 9999. %

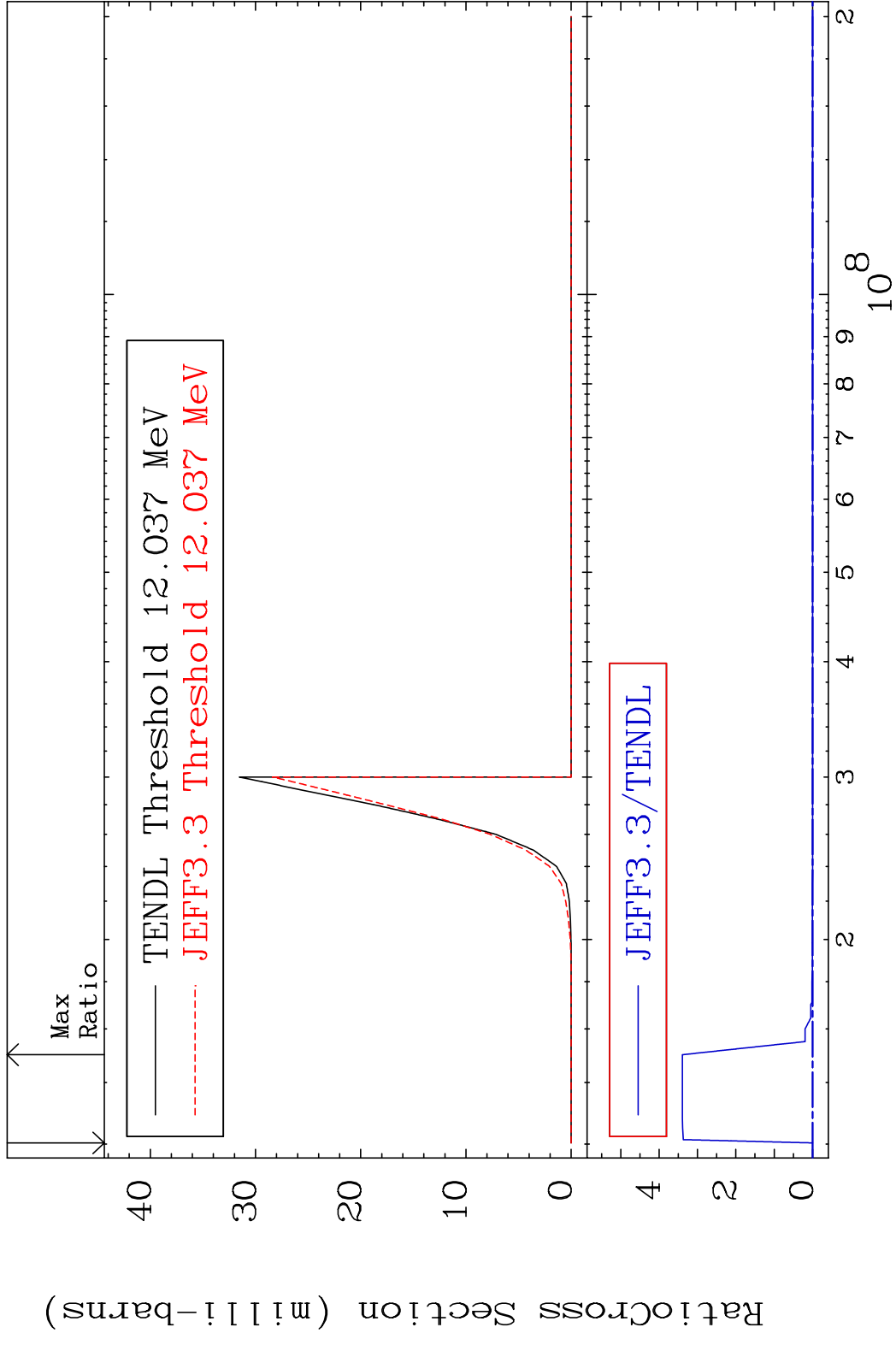


7

Incident Energy (eV)

44-Ru-98

MAT 4431 (n,2n) α 44-Ru-98
 Cross Section -100.0 To 9999. %



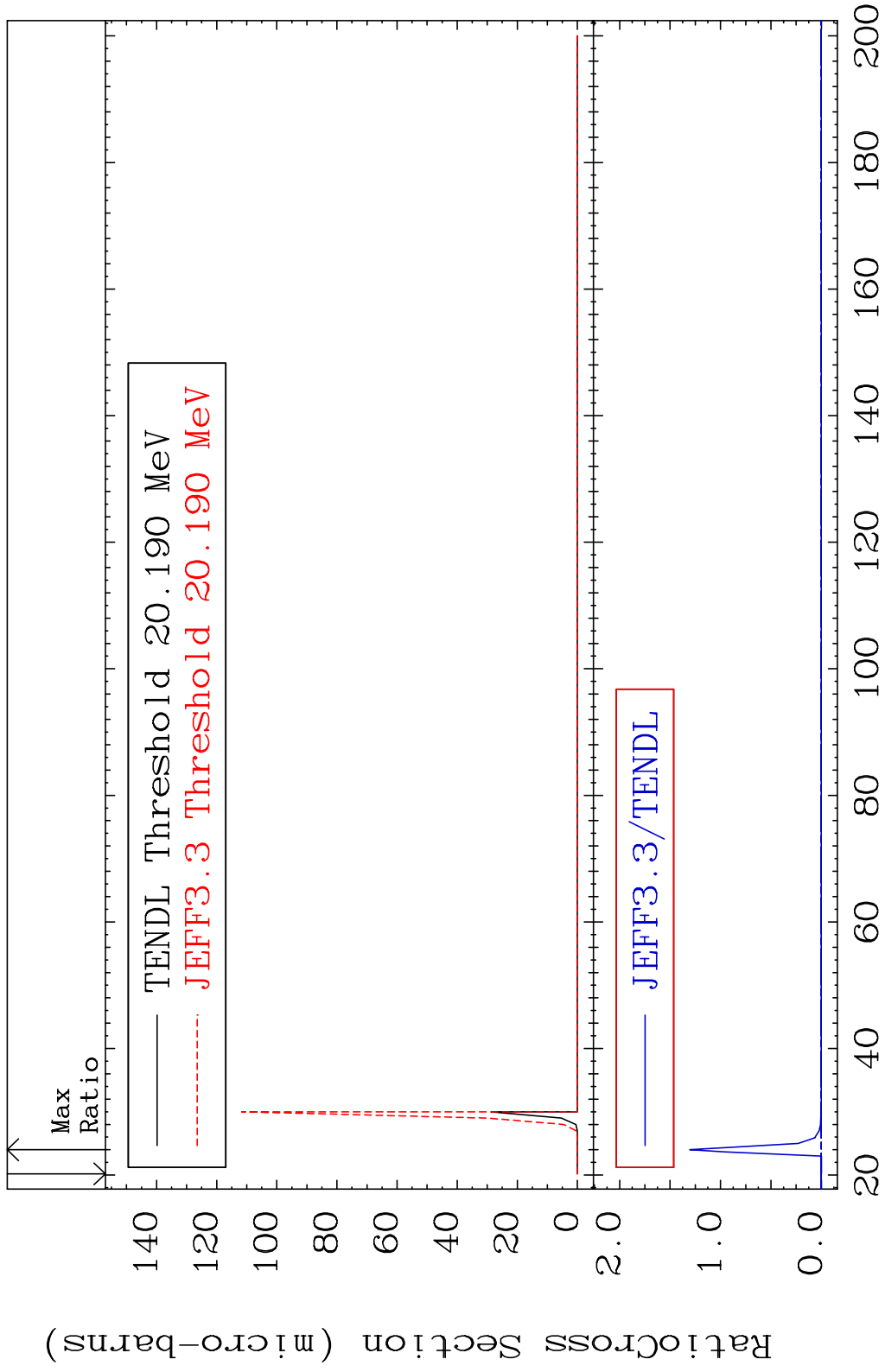
8 44-Ru-98

MAT 4431

(n,3n) α

44-Ru-98

Cross Section -100.0 To 9999. %

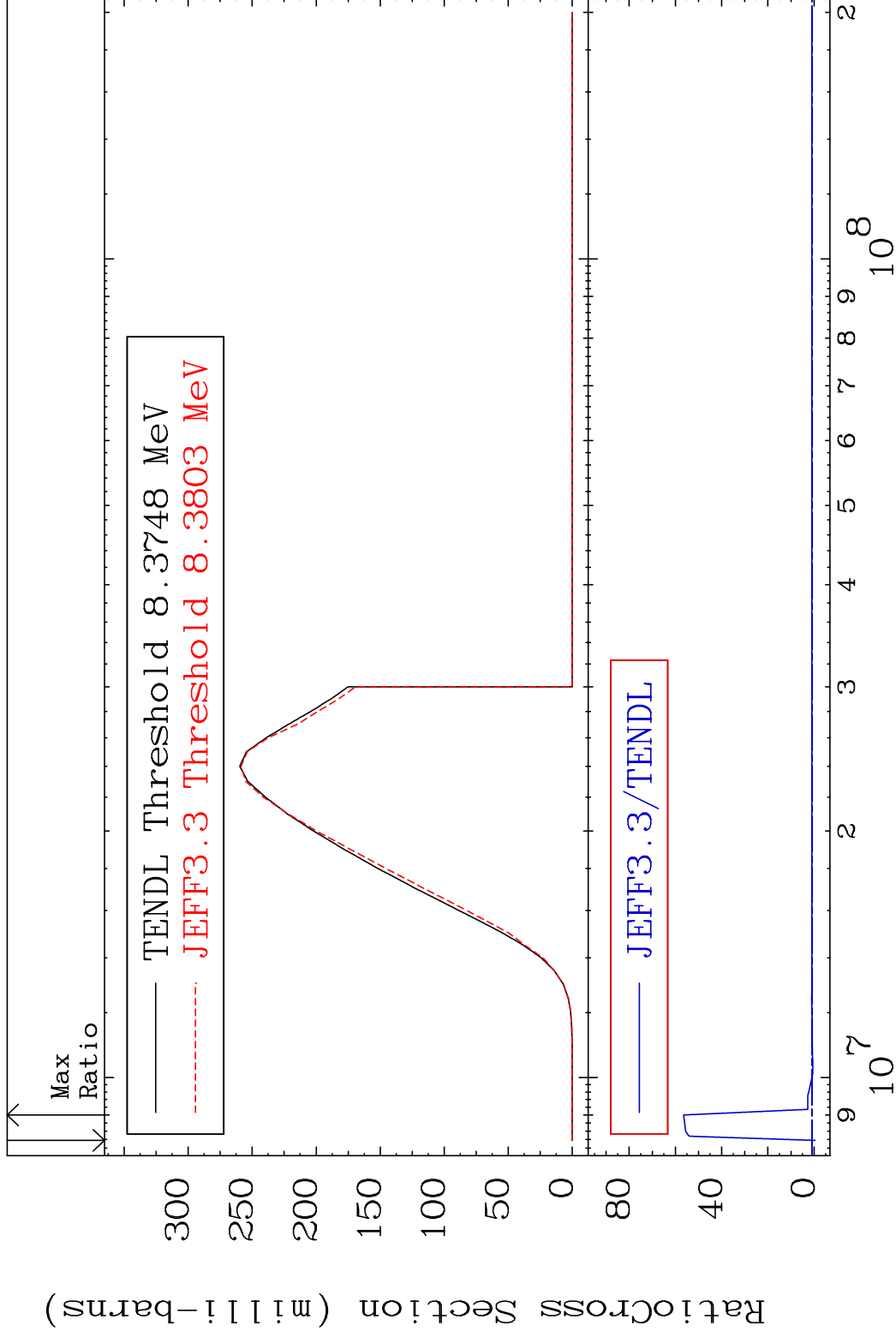


MAT 4431

(n, n') p

44-Ru-98

Cross Section -100.0 To 5543. %



10

Incident Energy (eV)

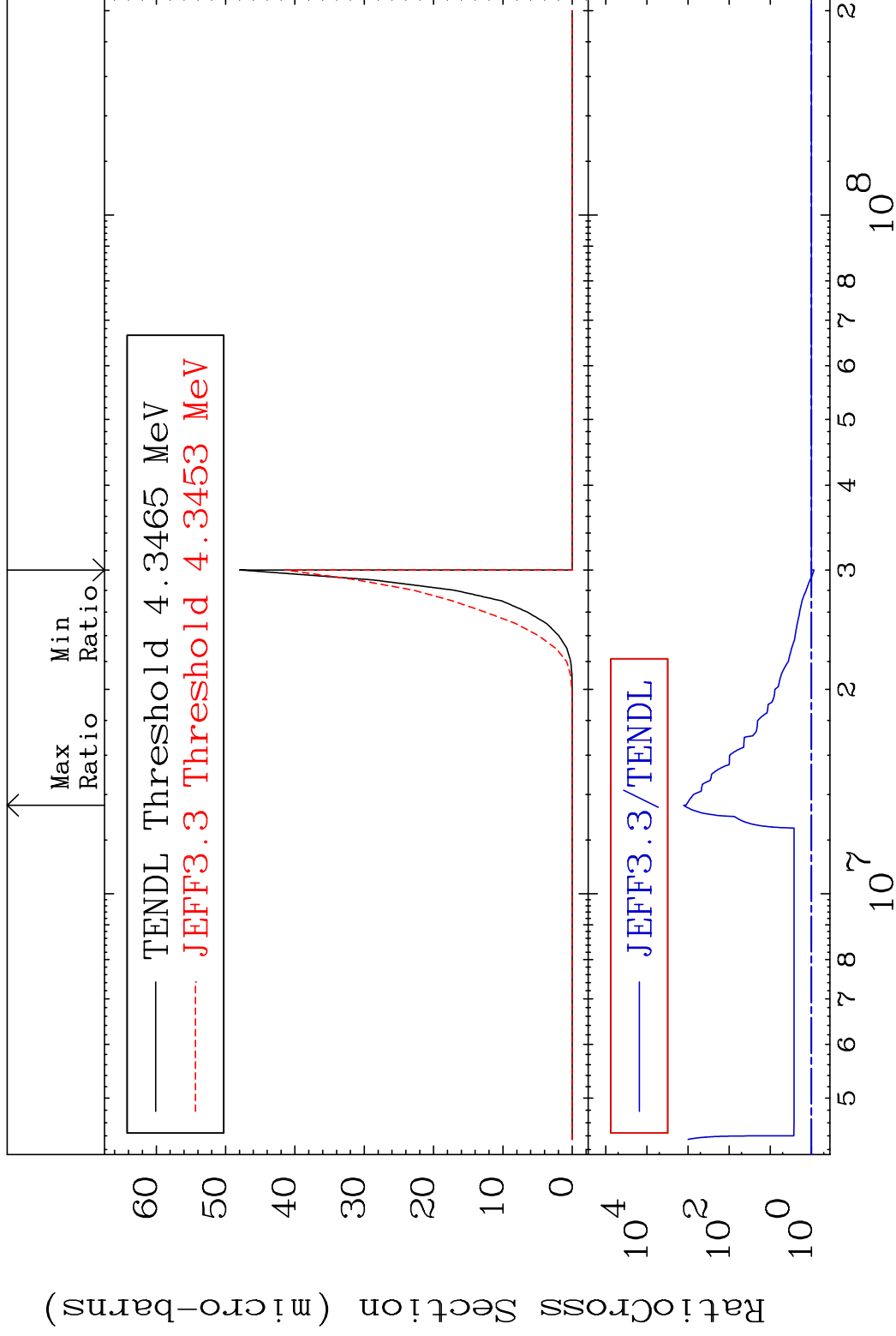
44-Ru-98

MAT 4431

(n, n') 2 α

44-Ru-98

Cross Section -13.70 To 9999. %

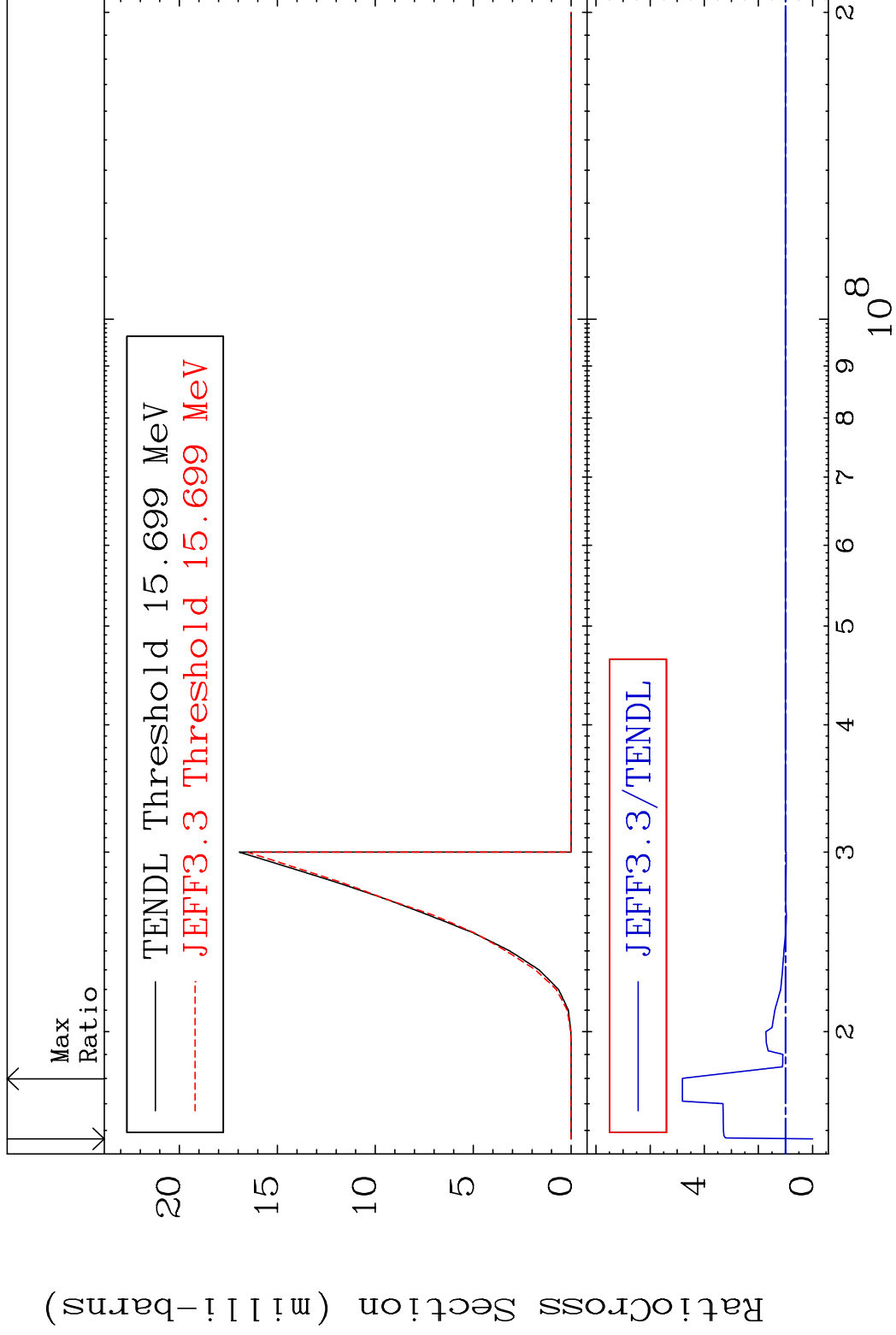


MAT 4431

(n, n') d

44-Ru-98

Cross Section -100.0 To 381.0 %



12

Incident Energy (eV)

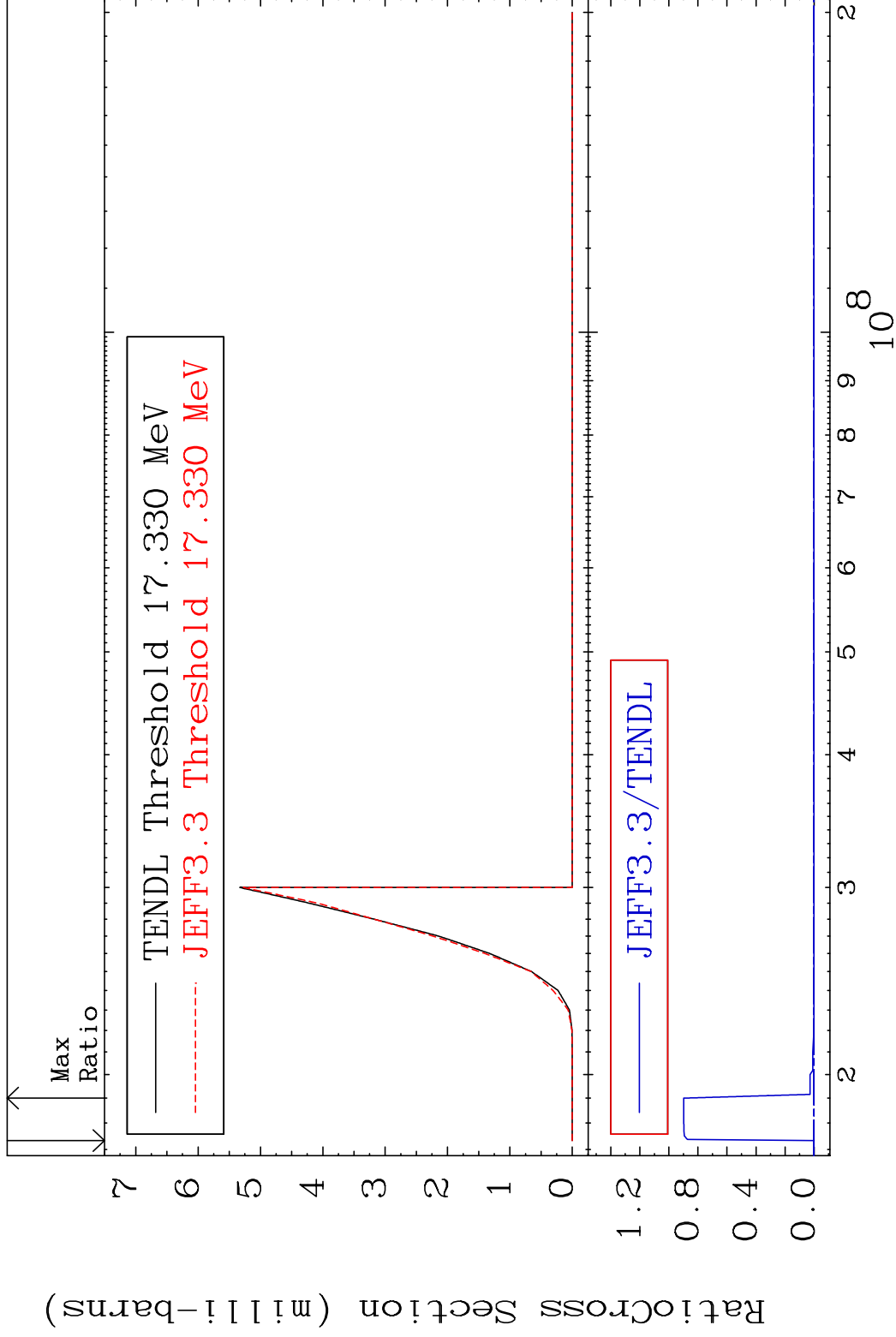
44-Ru-98

MAT 4431

(n, n') t

44-Ru-98

Cross Section -100.0 To 9999. %

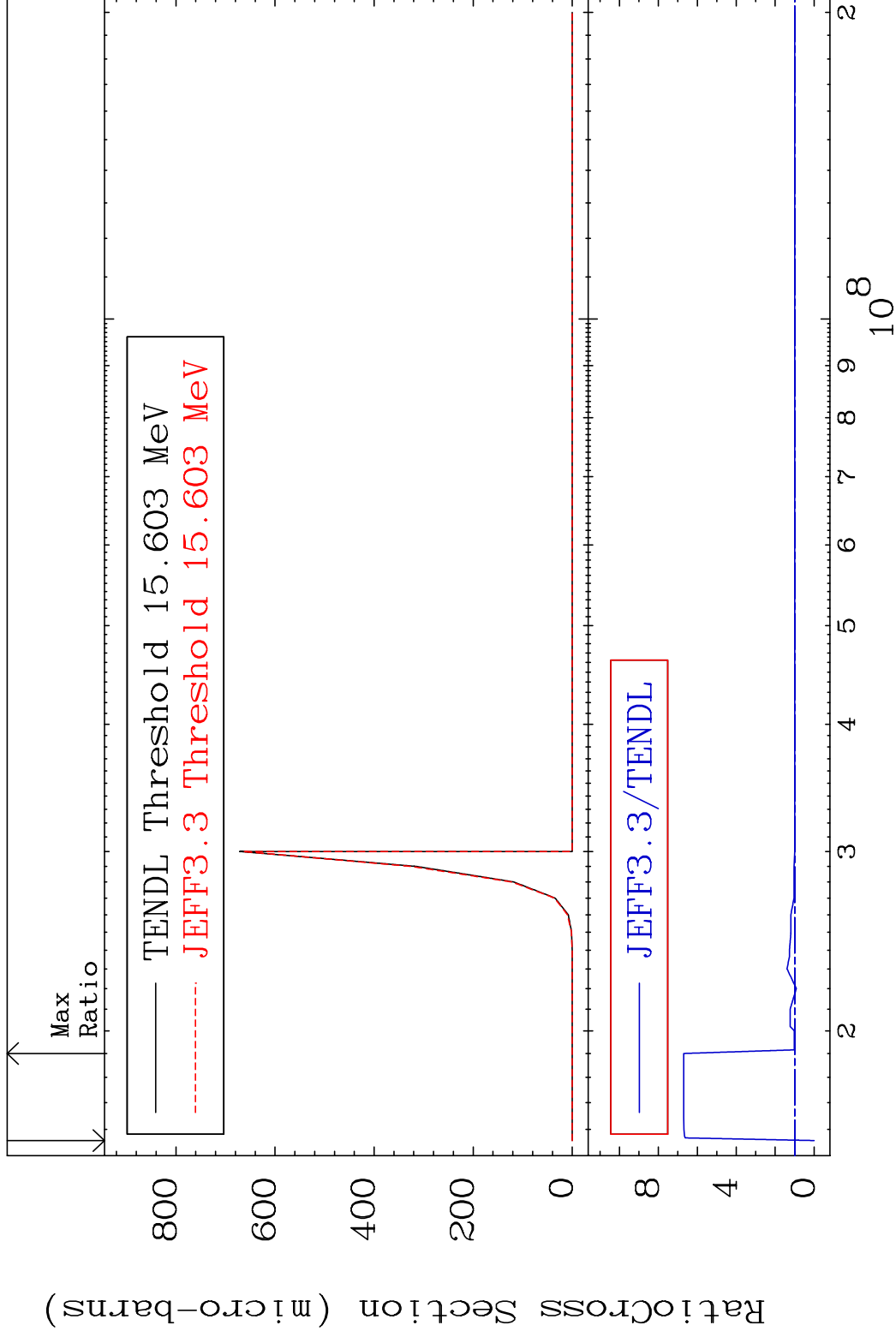


MAT 4431

(n,n') He-3

44-Ru-98

Cross Section -100.0 To 570.1 %



14

Incident Energy (eV)

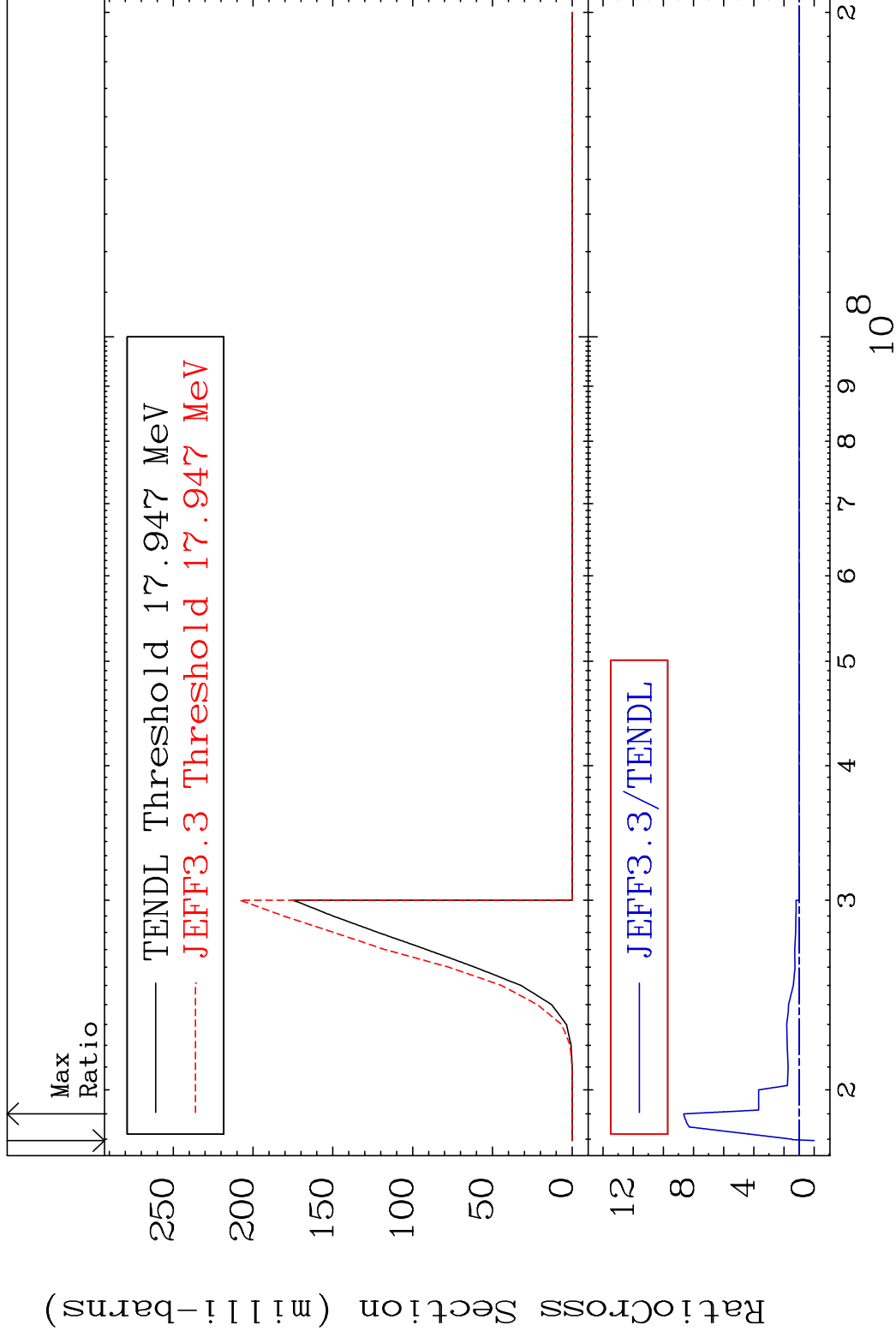
44-Ru-98

MAT 4431

(n,2n) p

44-Ru-98

Cross Section -100.0 To 765.4 %



15

Incident Energy (eV)

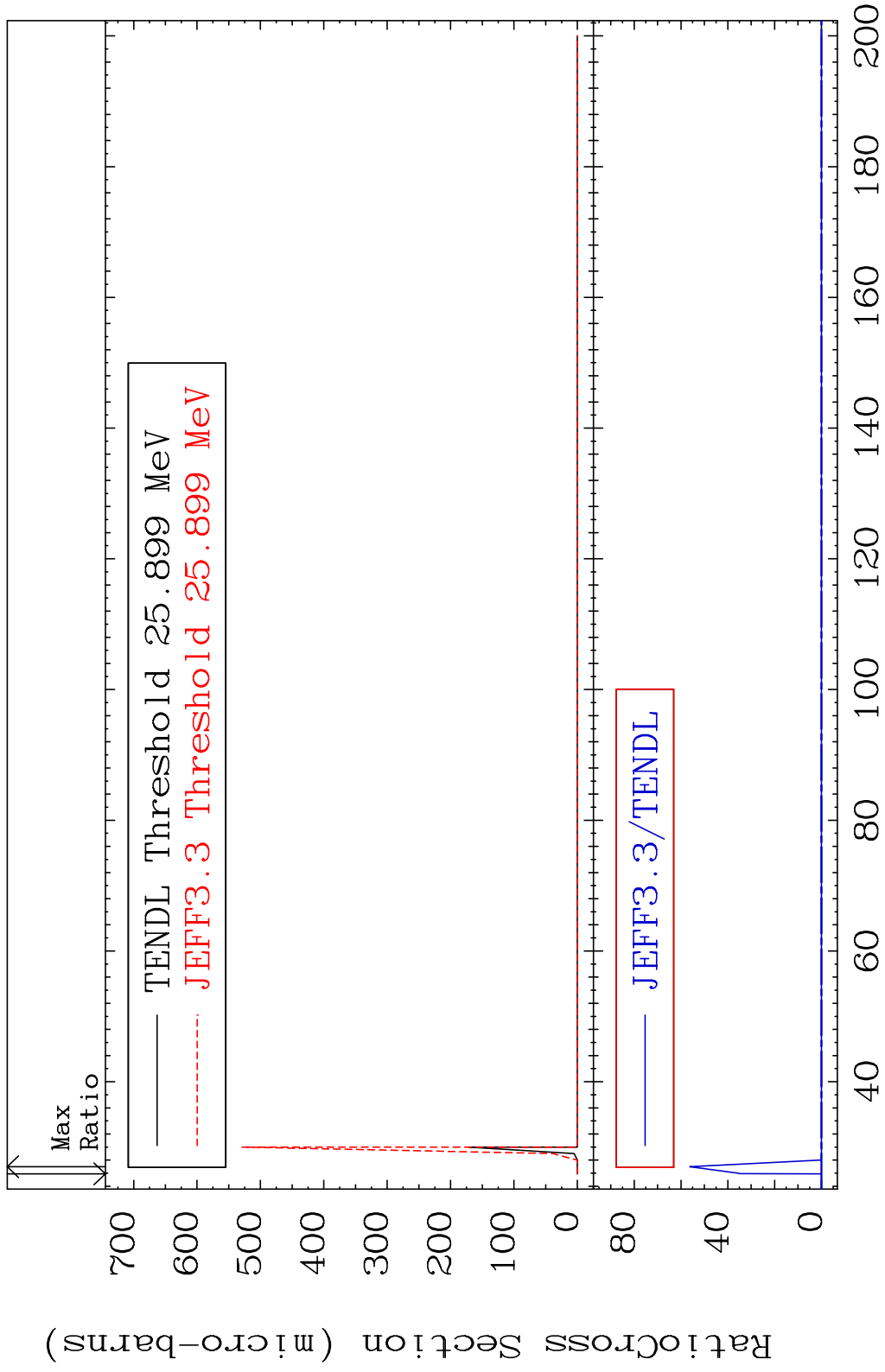
44-Ru-98

MAT 4431

(n,3n) p

44-Ru-98

Cross Section -100.0 To 9999. %

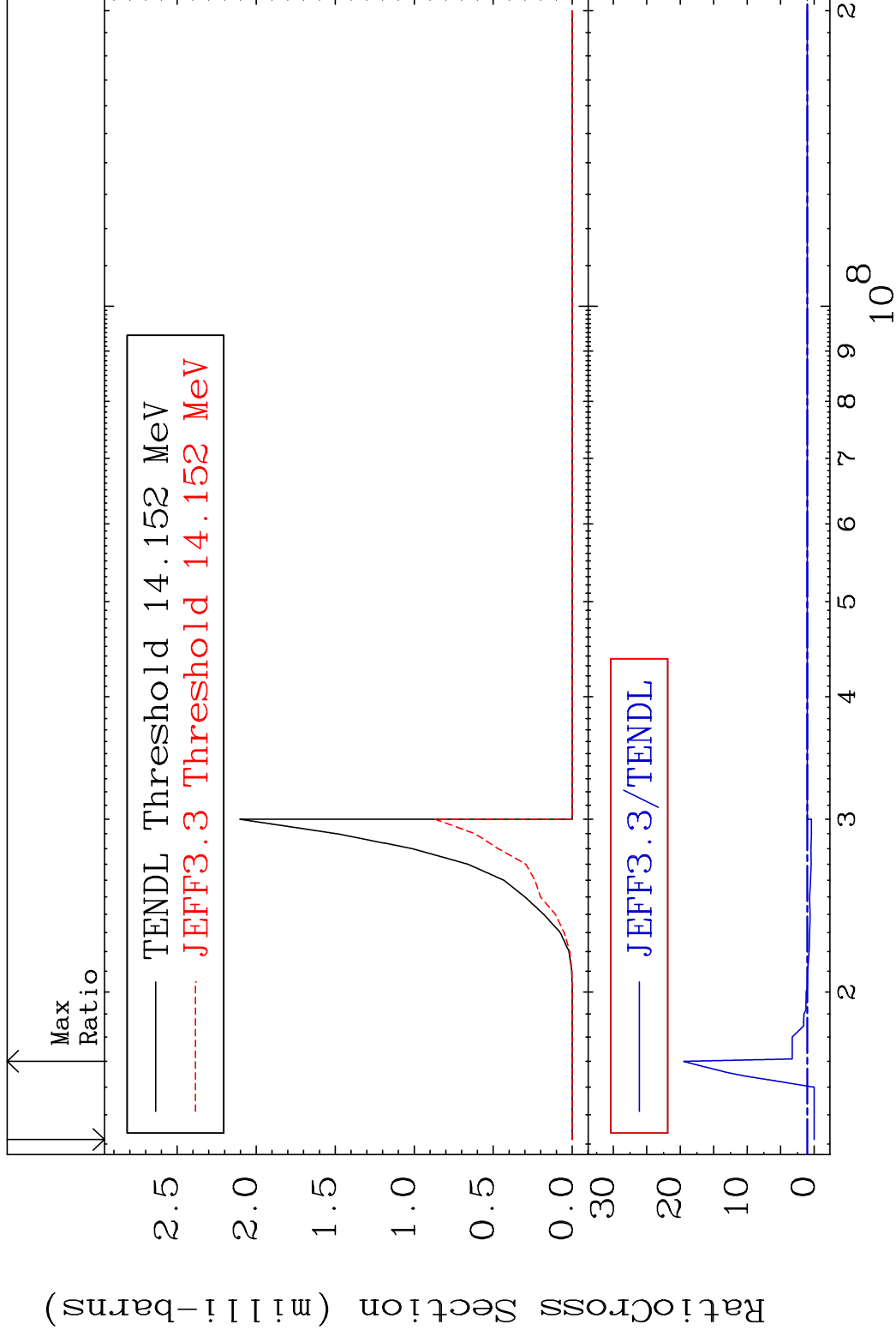


MAT 4431

(n,2n) p

44-Ru-98

Cross Section -100.0 To 1849. %



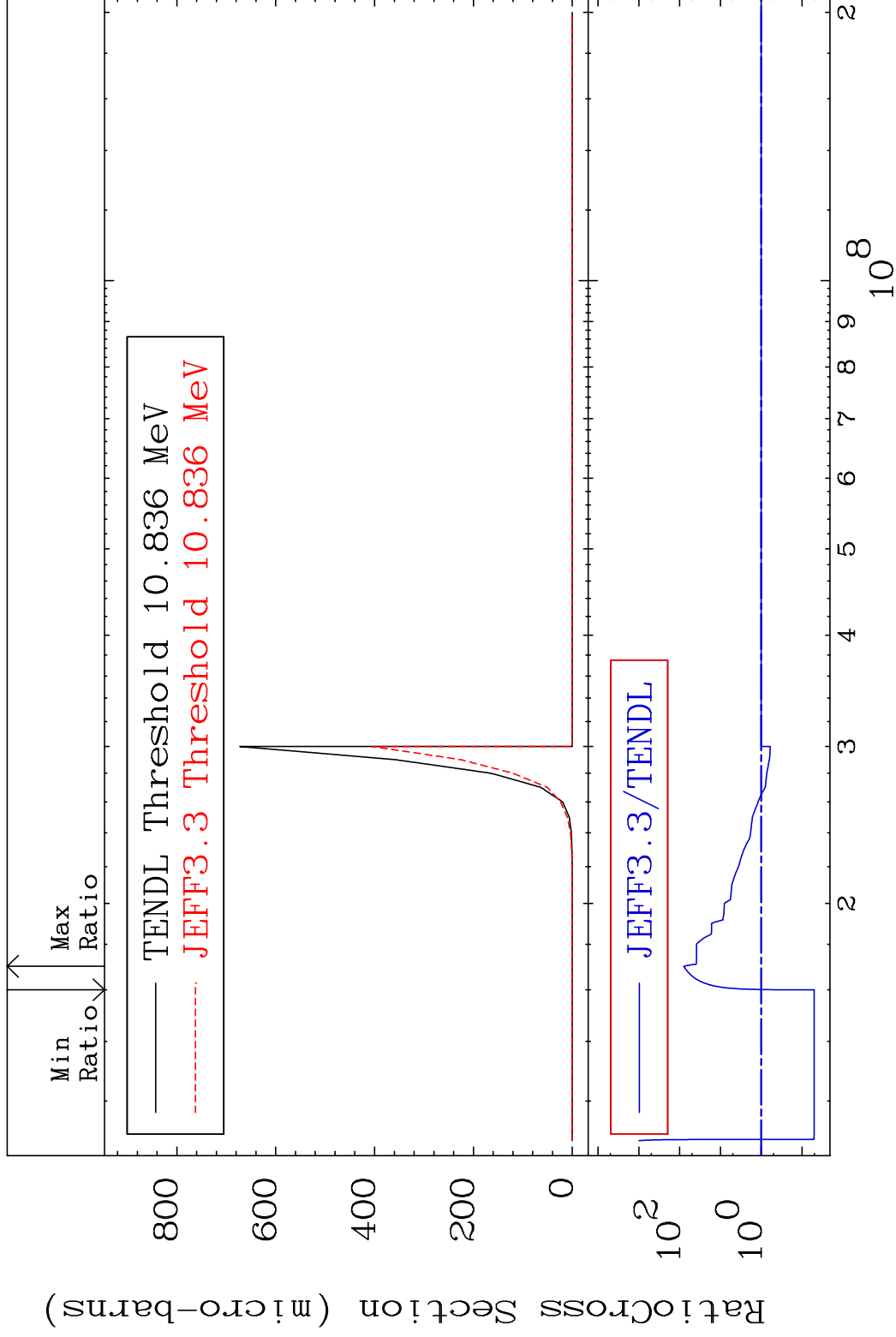
17

Incident Energy (eV)

44-Ru-98

MAT 4431

(n,n') p α 44-Ru-98
Cross Section -94.95 To 7882. %



18

Incident Energy (eV)

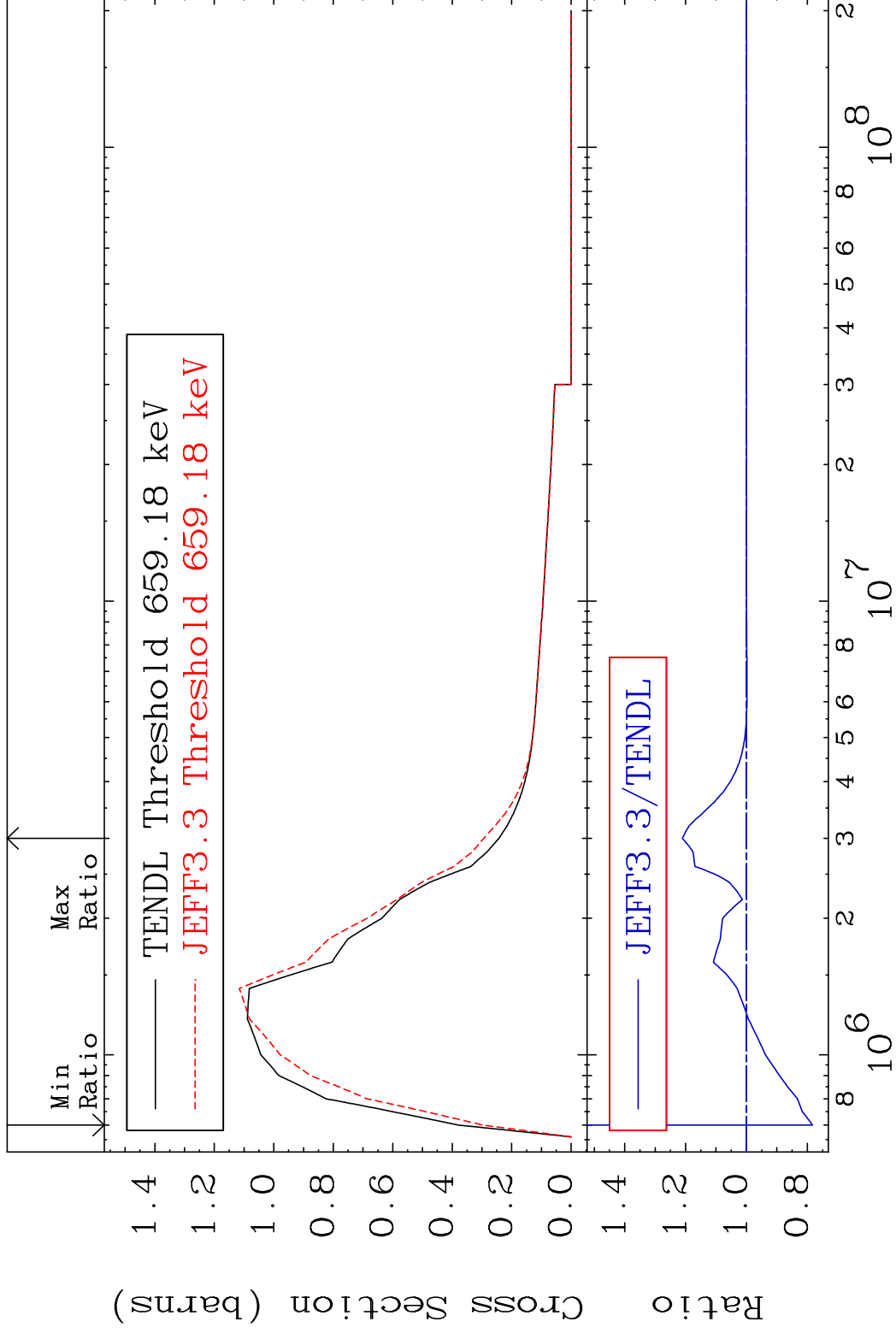
44-Ru-98

MAT 4431

MT= 51 (n, n') Level

44-Ru-98

Cross Section -21.72 To 21.06 %

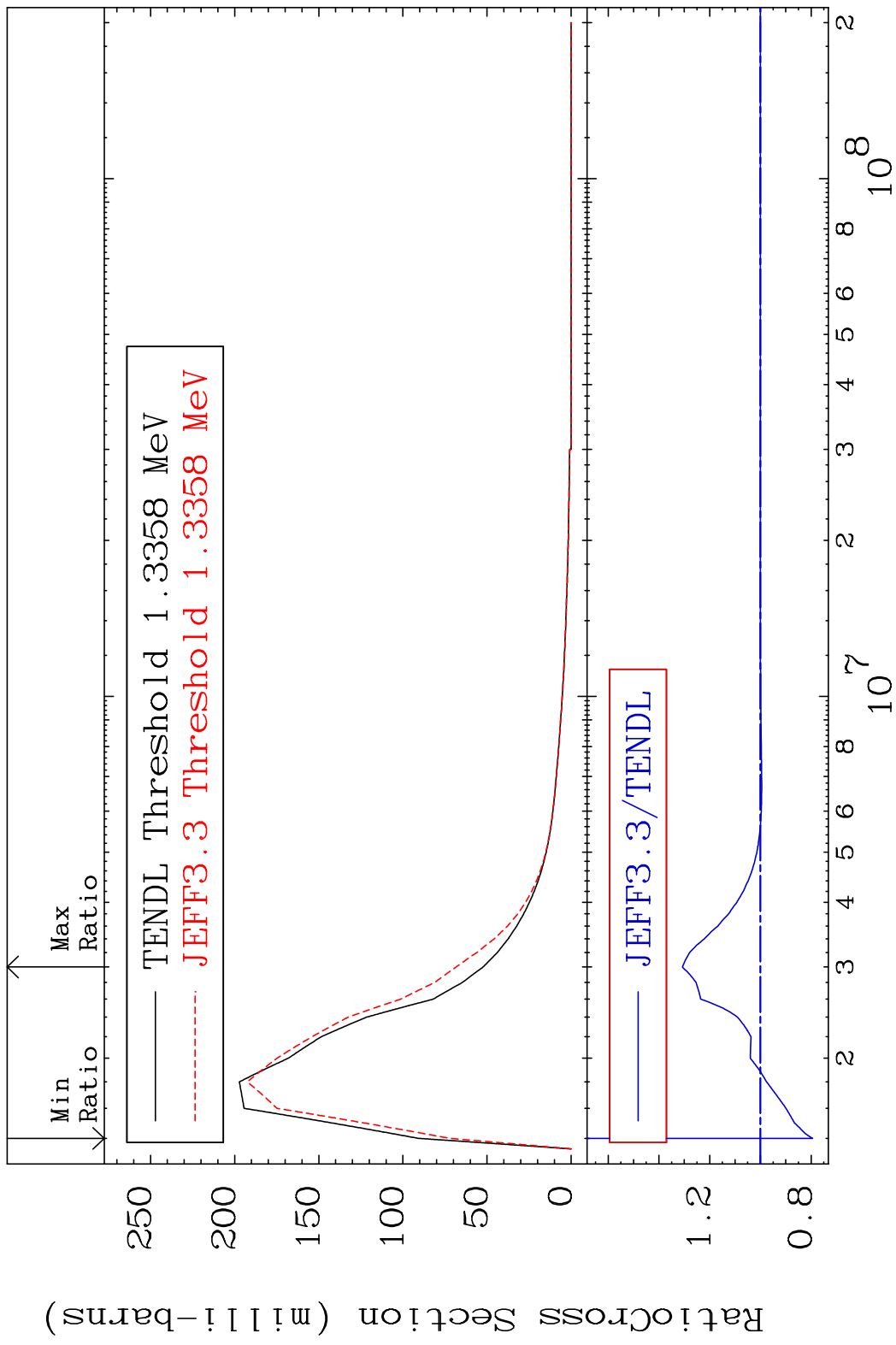


19

Incident Energy (eV)

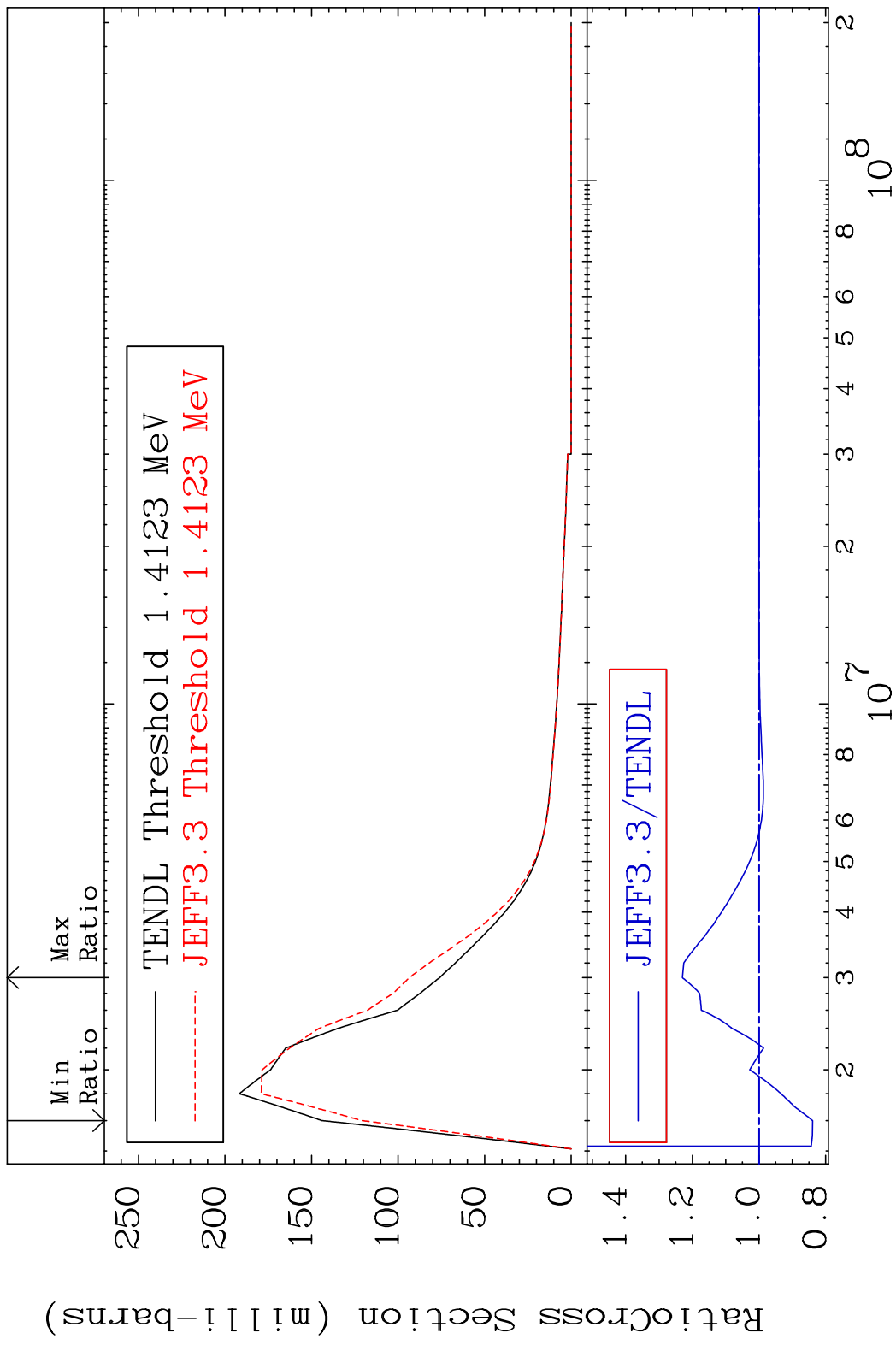
44-Ru-98

MAT 4431 MT= 52 (n, n') Level 44-Ru-98
 Cross Section -20.56 To 30.76 %

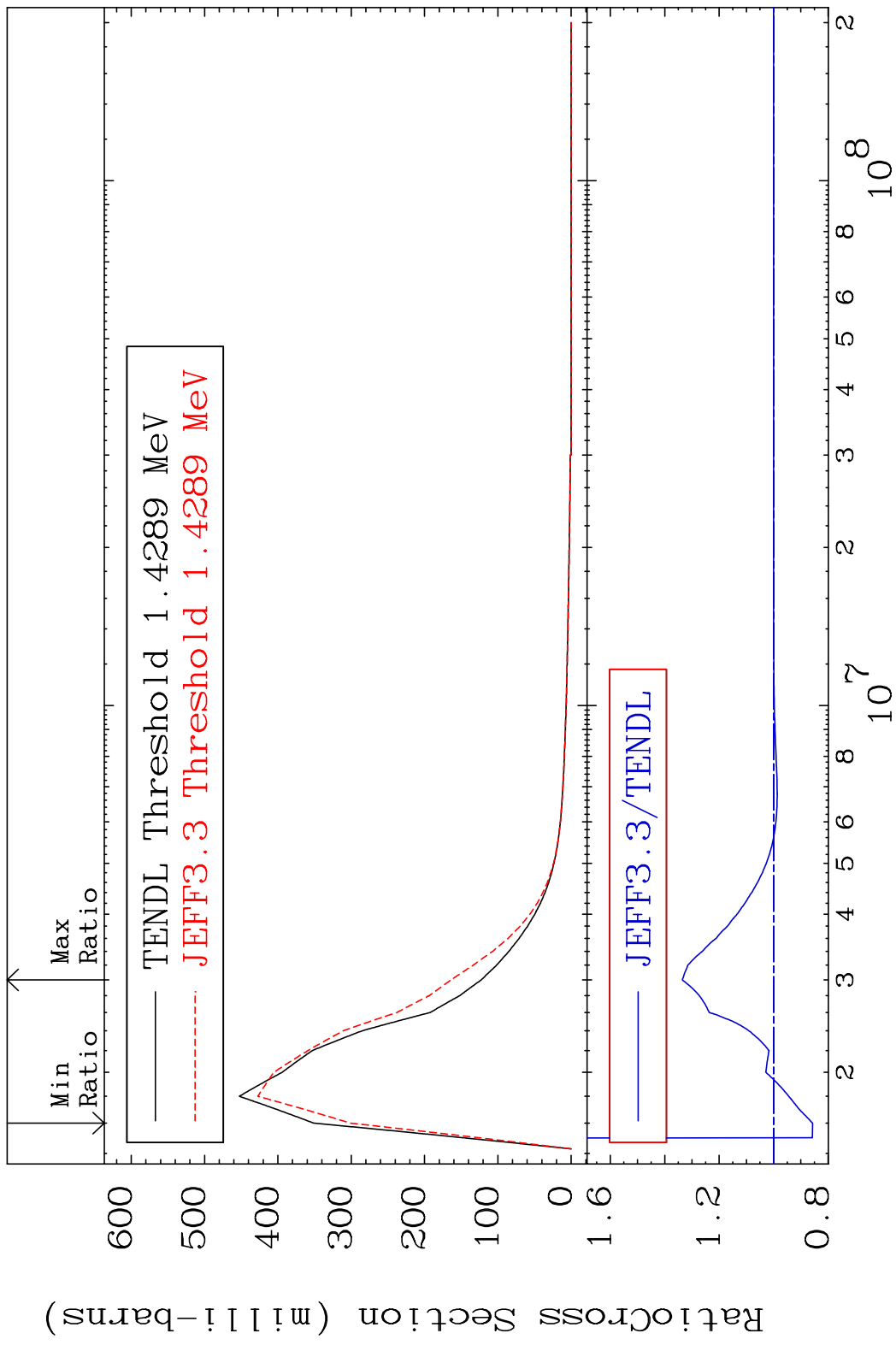


20 Incident Energy (eV) 44-Ru-98

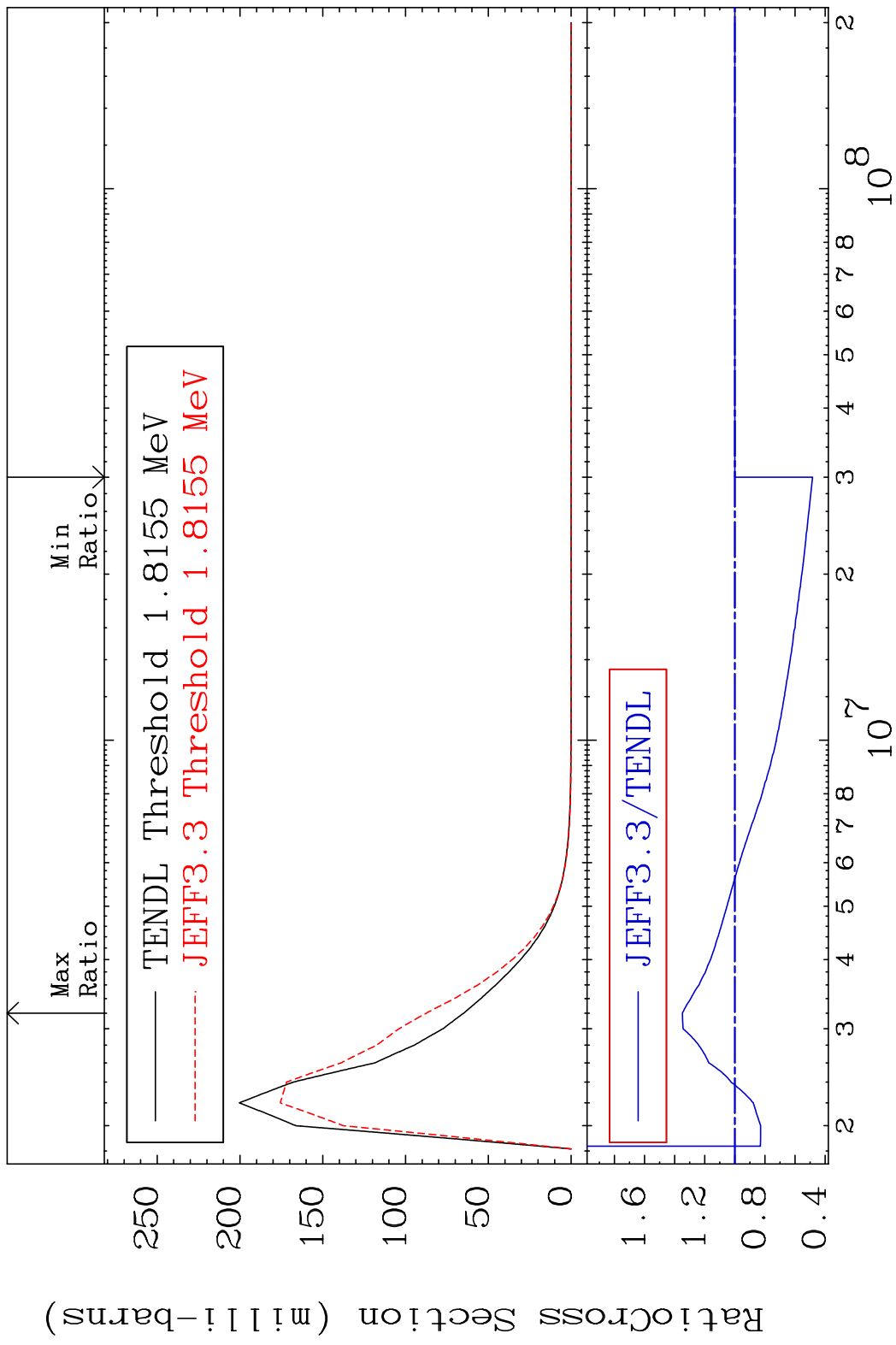
MAT 4431 MT= 53 (n, n') Level 44-Ru-98
 Cross Section -16.06 To 23.00 %



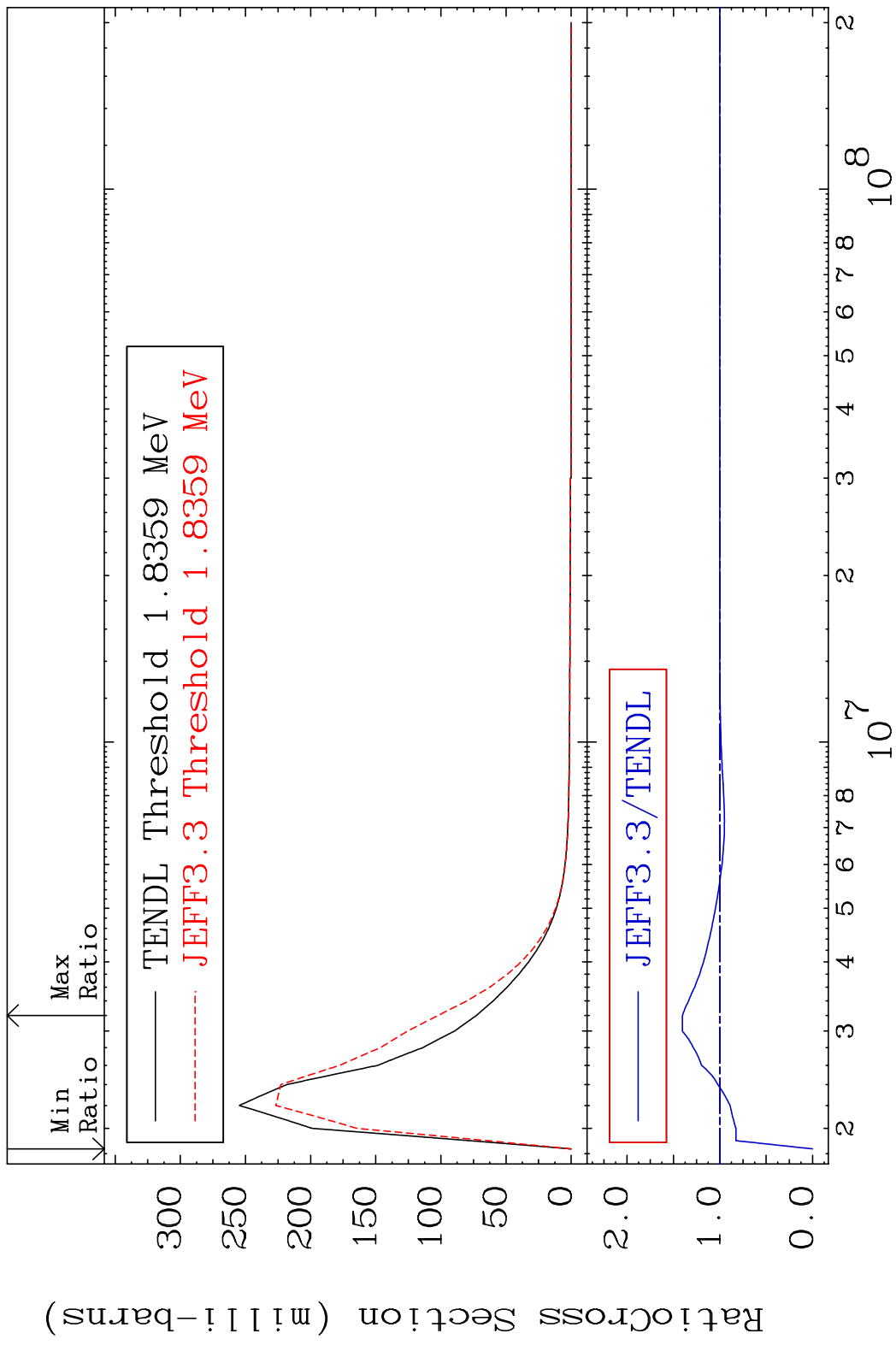
MAT 4431 MT= 54 (n,n') Level 44-Ru-98
 Cross Section -14.32 To 33.52 %



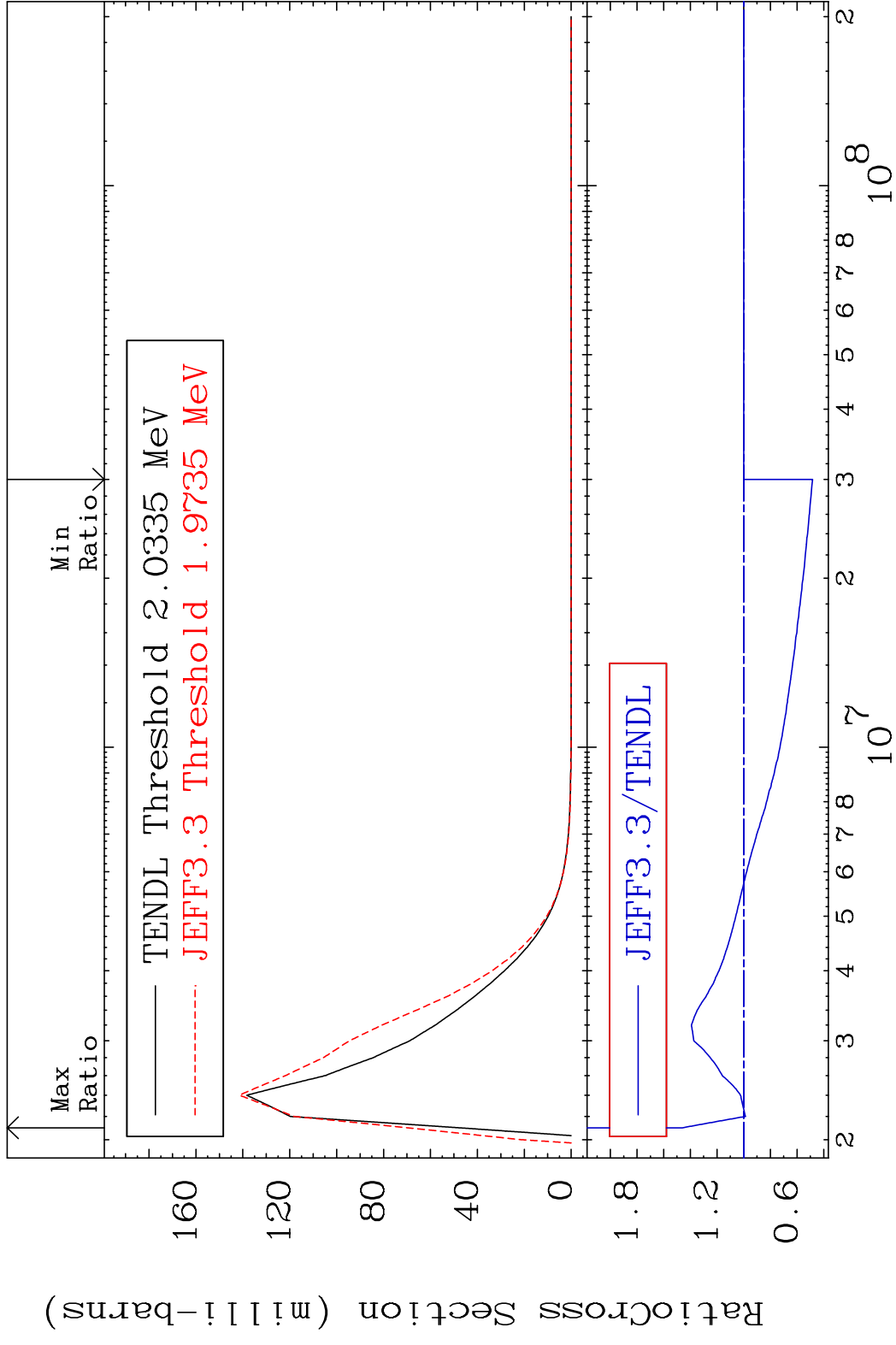
MAT 4431 MT= 55 (n,n') Level 44-Ru-98
 Cross Section -51.69 To 34.83 %



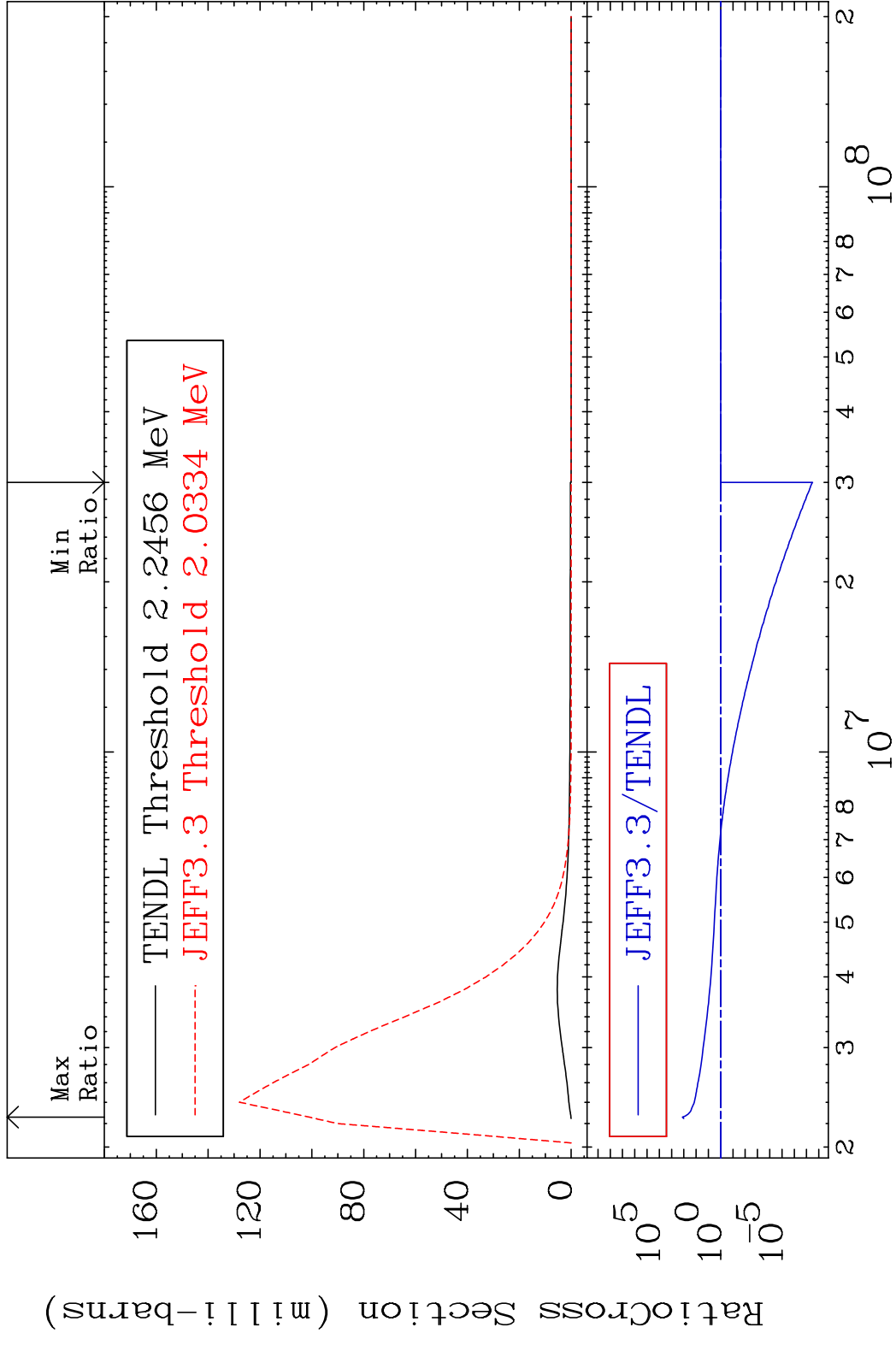
MAT 4431 MT= 56 (n,n') Level 44-Ru-98
 Cross Section -100.0 To 40.39 %



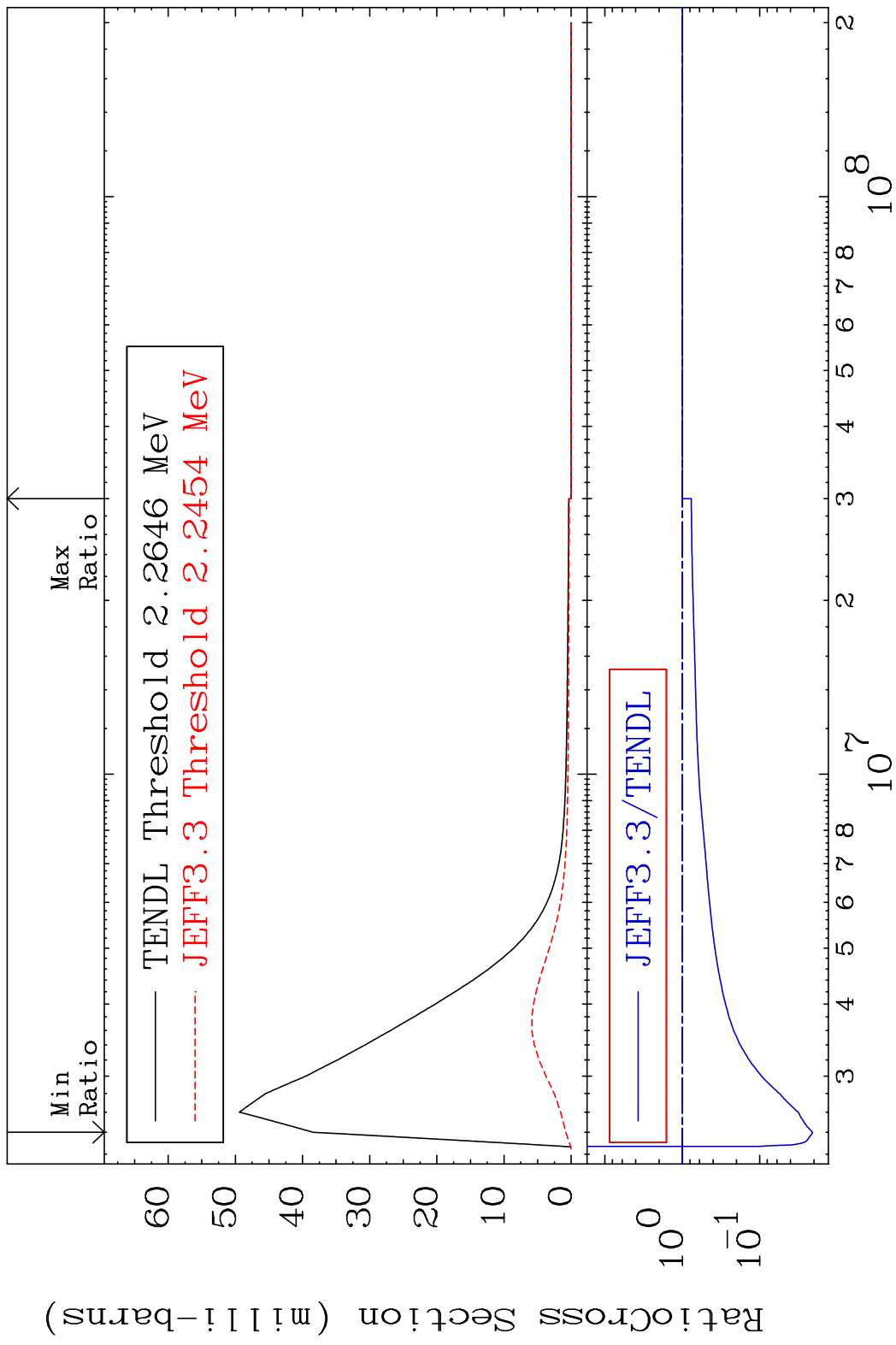
MAT 4431 MT= 57 (n, n') Level 44-Ru-98
 Cross Section -51.64 To 46.00 %



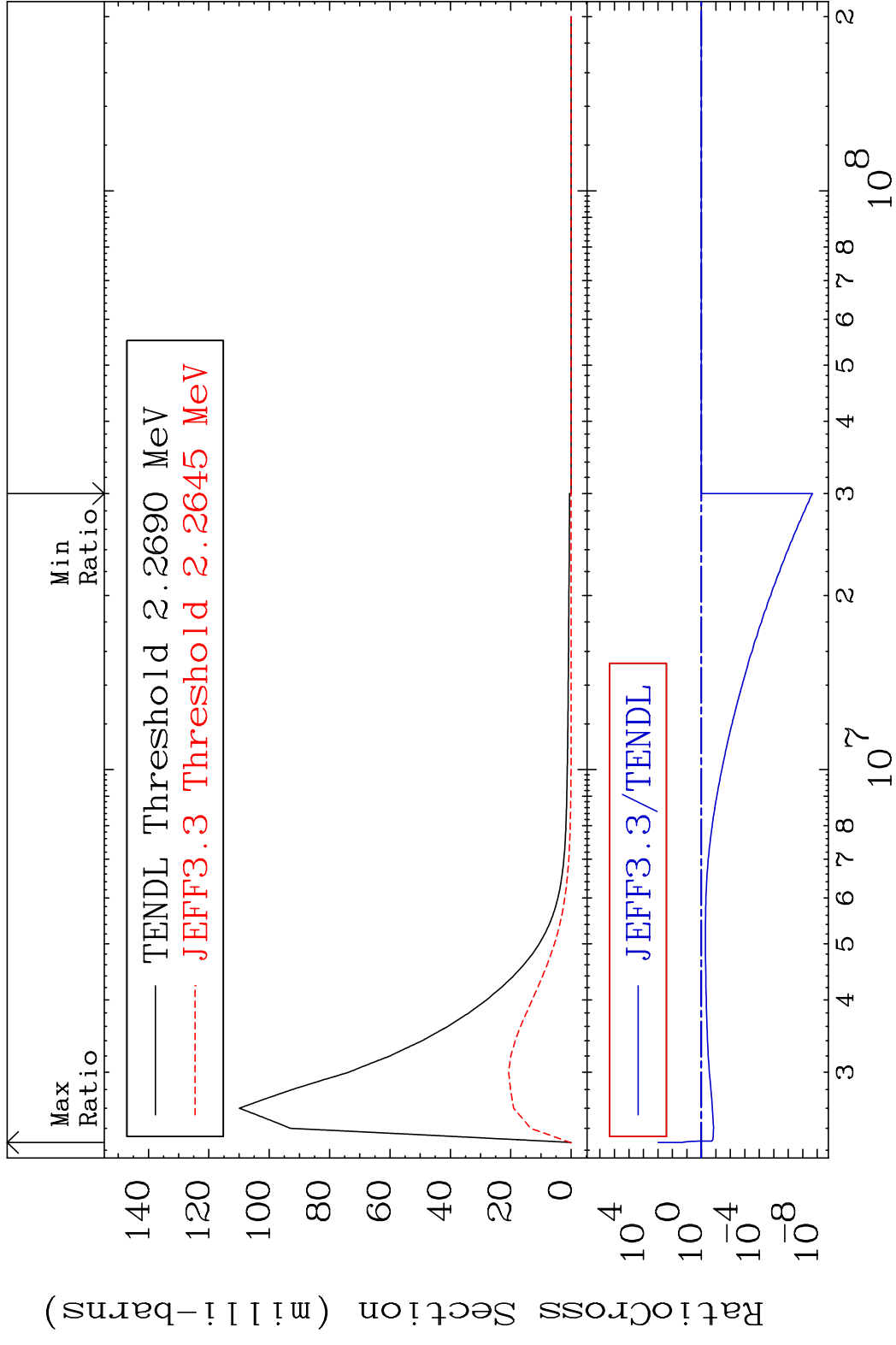
MAT 4431 MT= 58 (n, n') Level 44-Ru-98
 Cross Section -100.0 To 9999. %



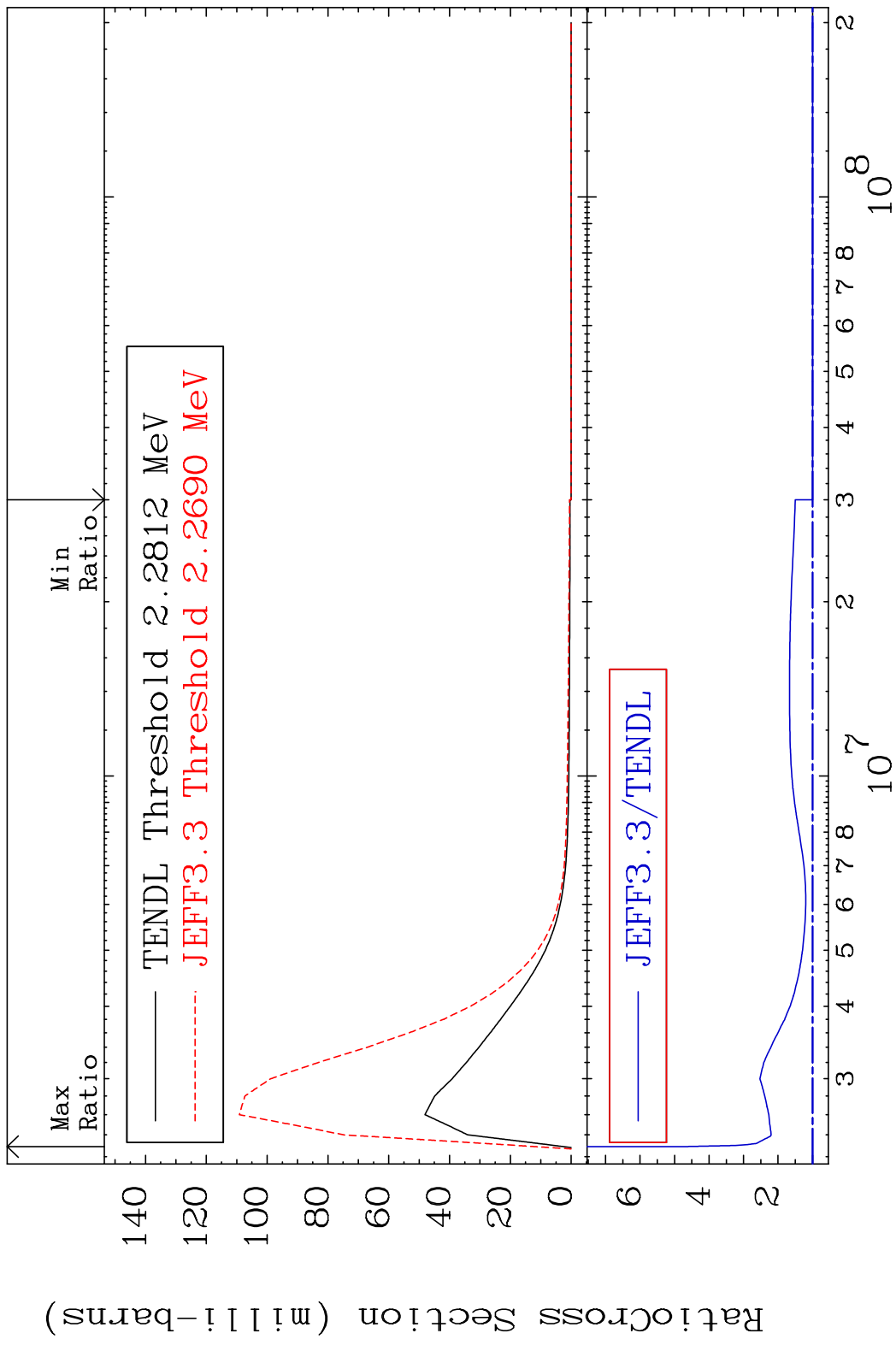
MAT 4431 MT= 59 (n, n') Level 44-Ru-98
 Cross Section -97.92 To 0.000 %



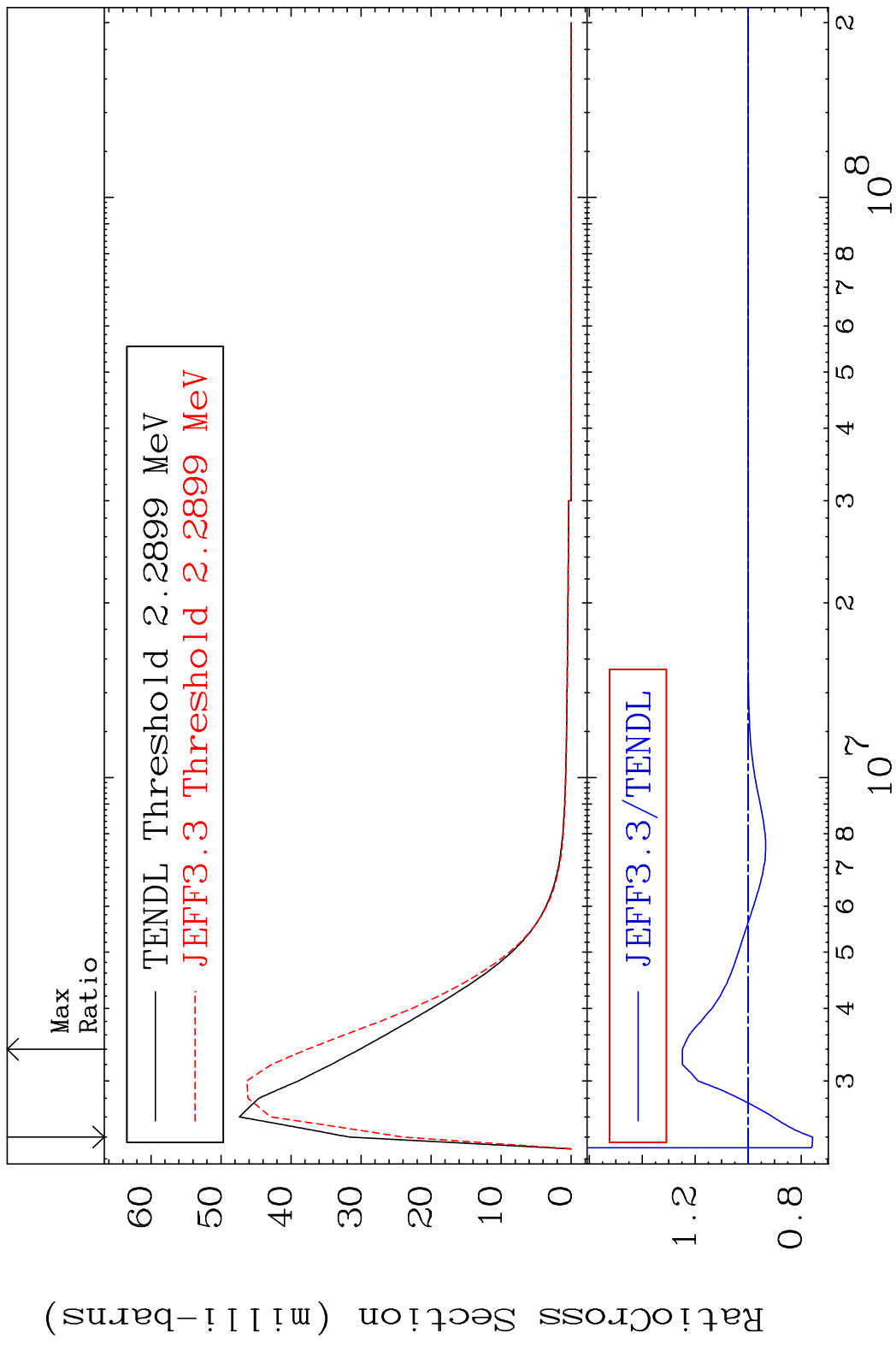
MAT 4431 MT= 60 (n, n') Level 44-Ru-98
 Cross Section -100.0 To 1949. %



MAT 4431 MT= 61 (n, n') Level 44-Ru-98
 Cross Section 0.000 To 377.3 %



MAT 4431 MT= 62 (n, n') Level 44-Ru-98
 Cross Section -24.33 To 24.87 %



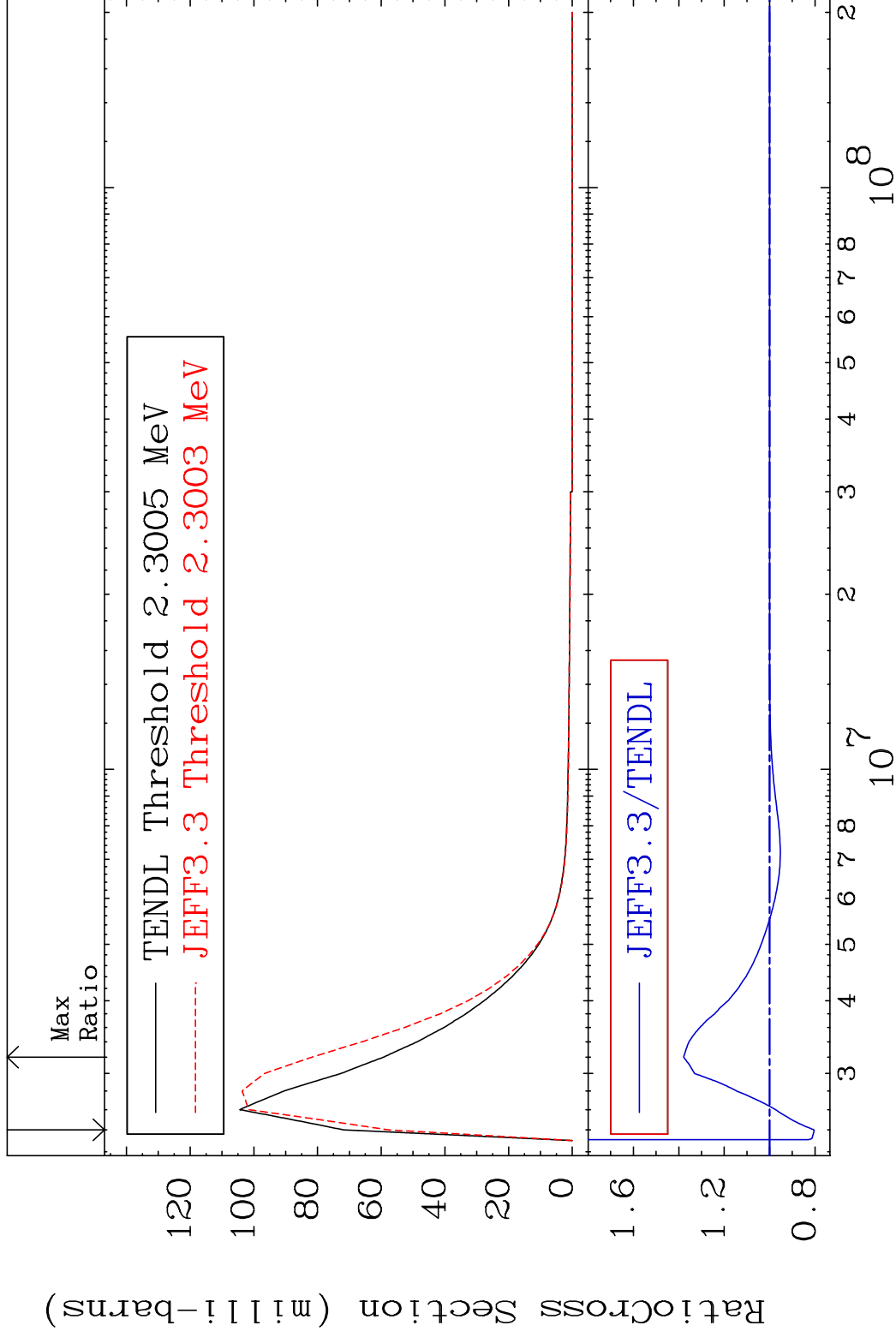
30 44-Ru-98

MAT 4431

MT= 63 (n, n') Level

44-Ru-98

Cross Section -19.60 To 37.86 %

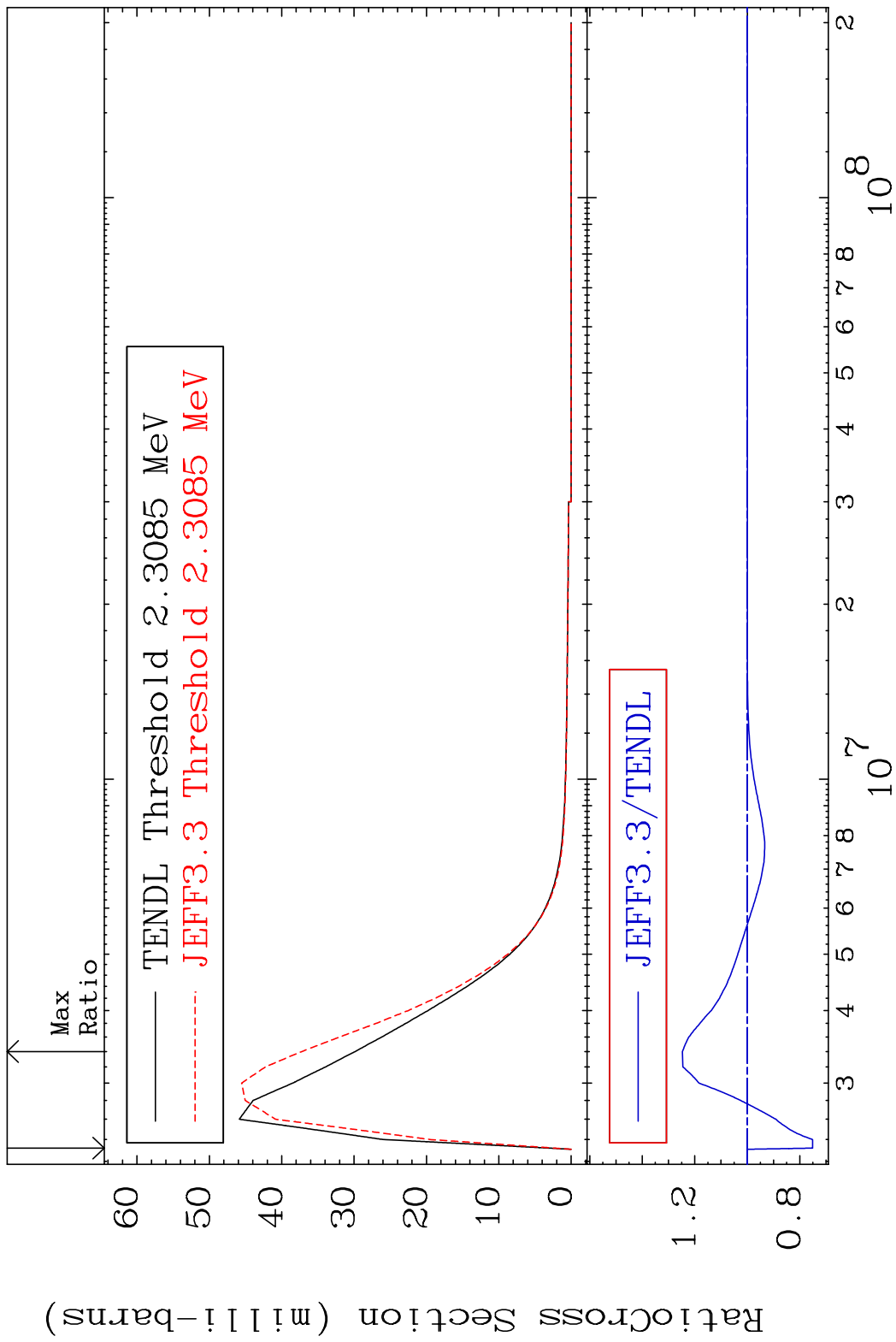


31

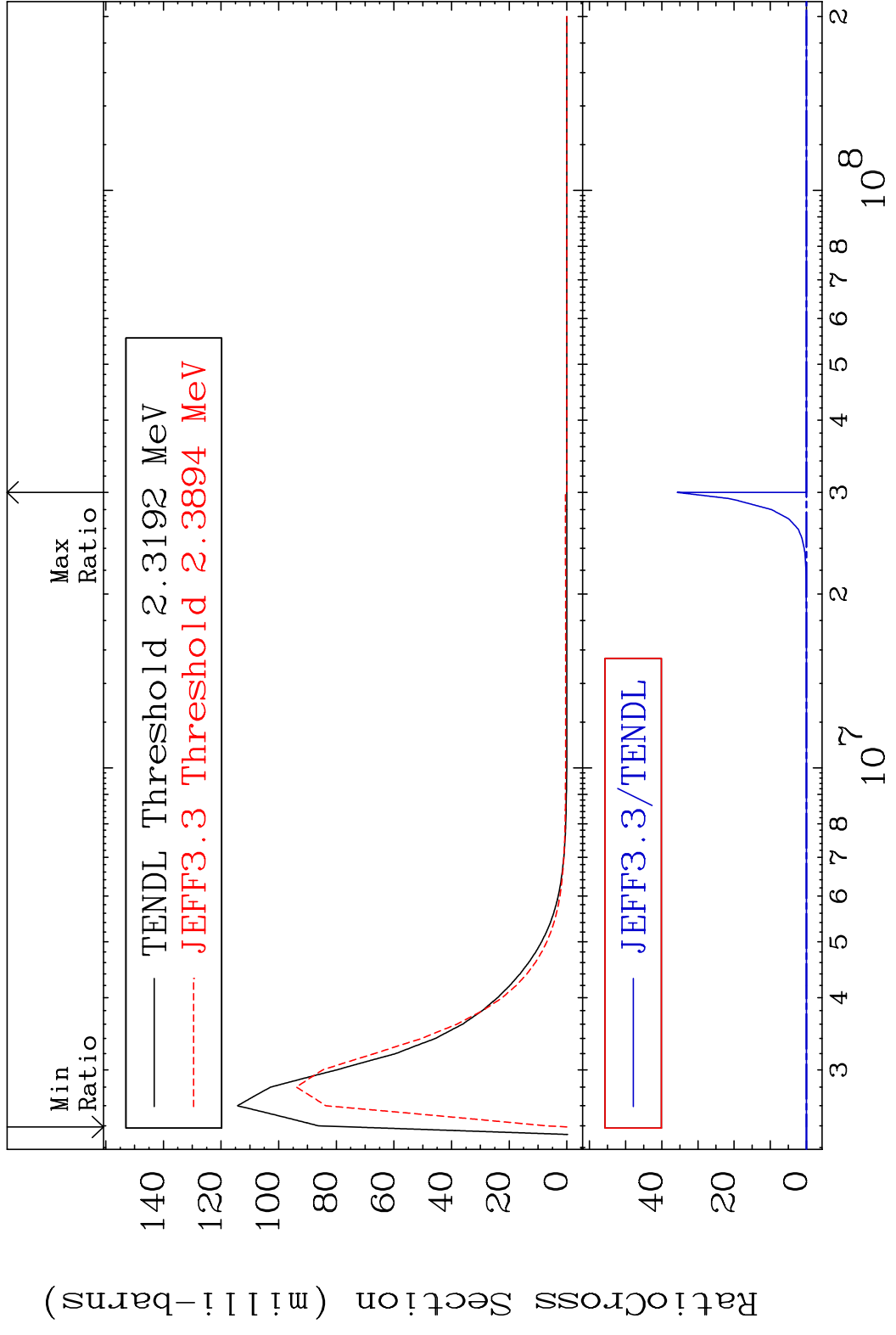
Incident Energy (eV)

44-Ru-98

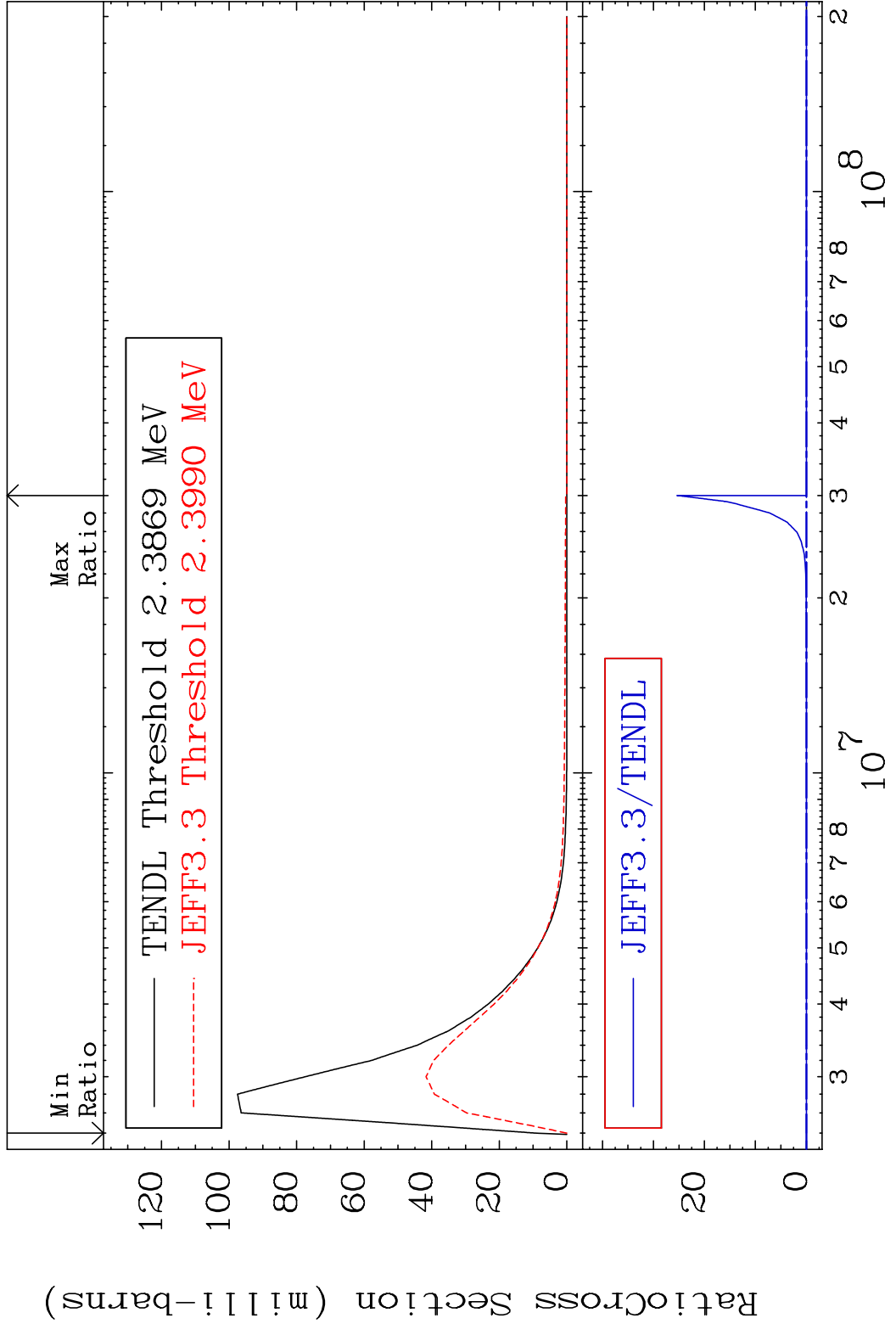
MAT 4431 MT= 64 (n, n') Level 44-Ru-98
 Cross Section -24.86 To 24.72 %



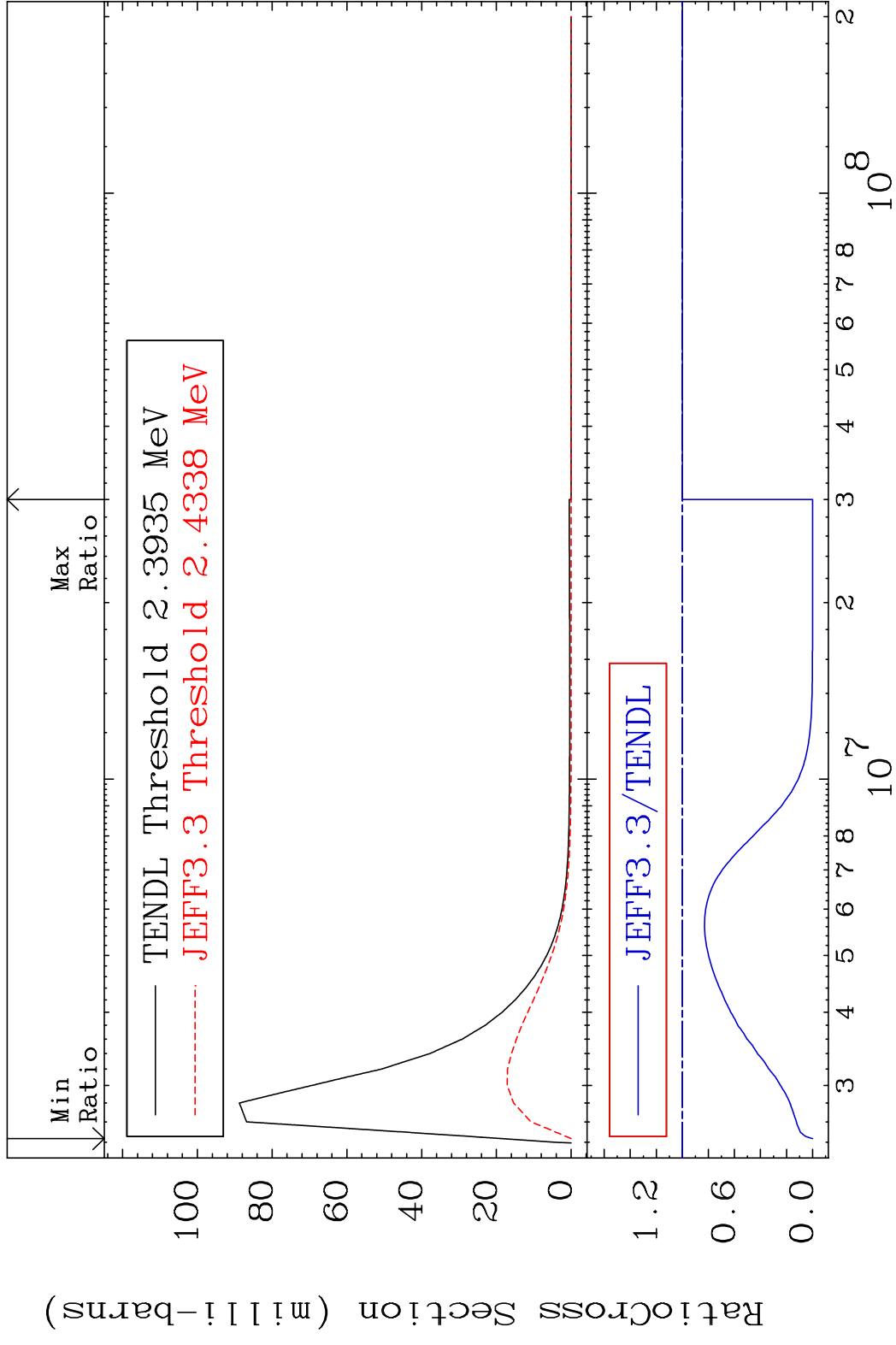
MAT 4431 MT= 65 (n, n') Level 44-Ru-98
 Cross Section -100.0 To 9999. %



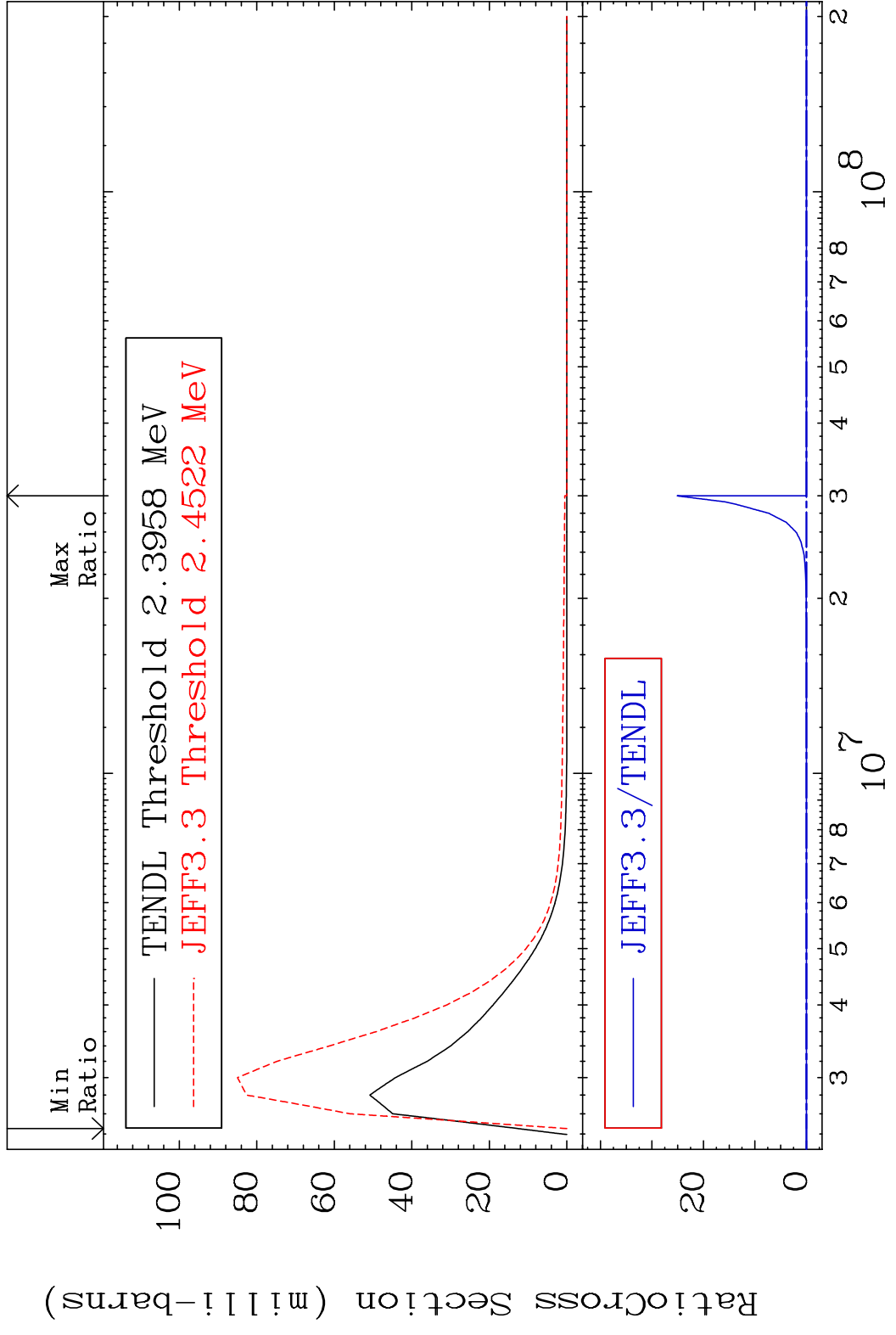
MAT 4431 MT= 66 (n, n') Level 44-Ru-98
 Cross Section -100.0 To 9999. %



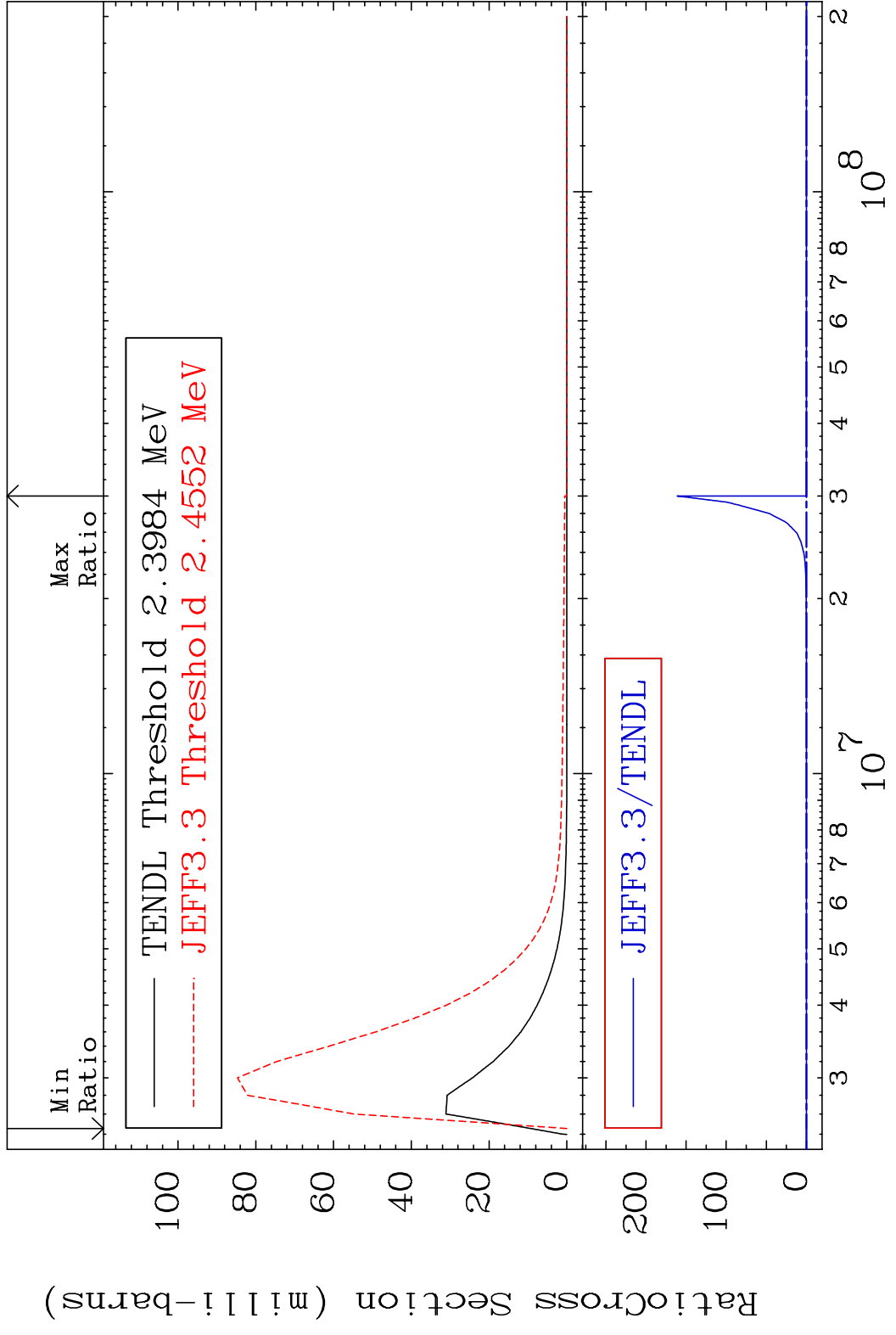
MAT 4431 MT= 67 (n, n') Level 44-Ru-98
 Cross Section -100.0 To 0.000 %



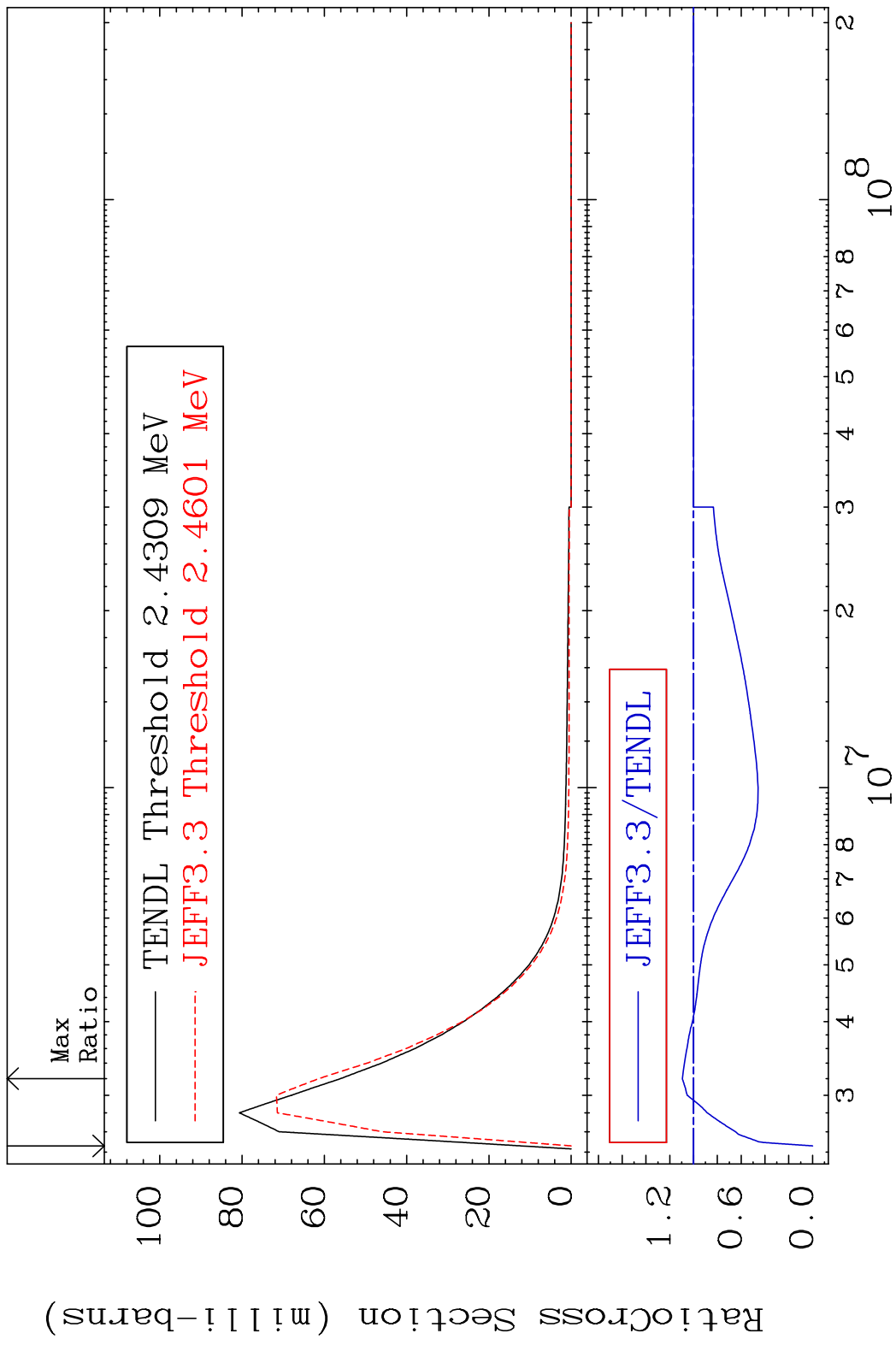
MAT 4431 MT= 68 (n, n') Level 44-Ru-98
 Cross Section -100.0 To 9999. %



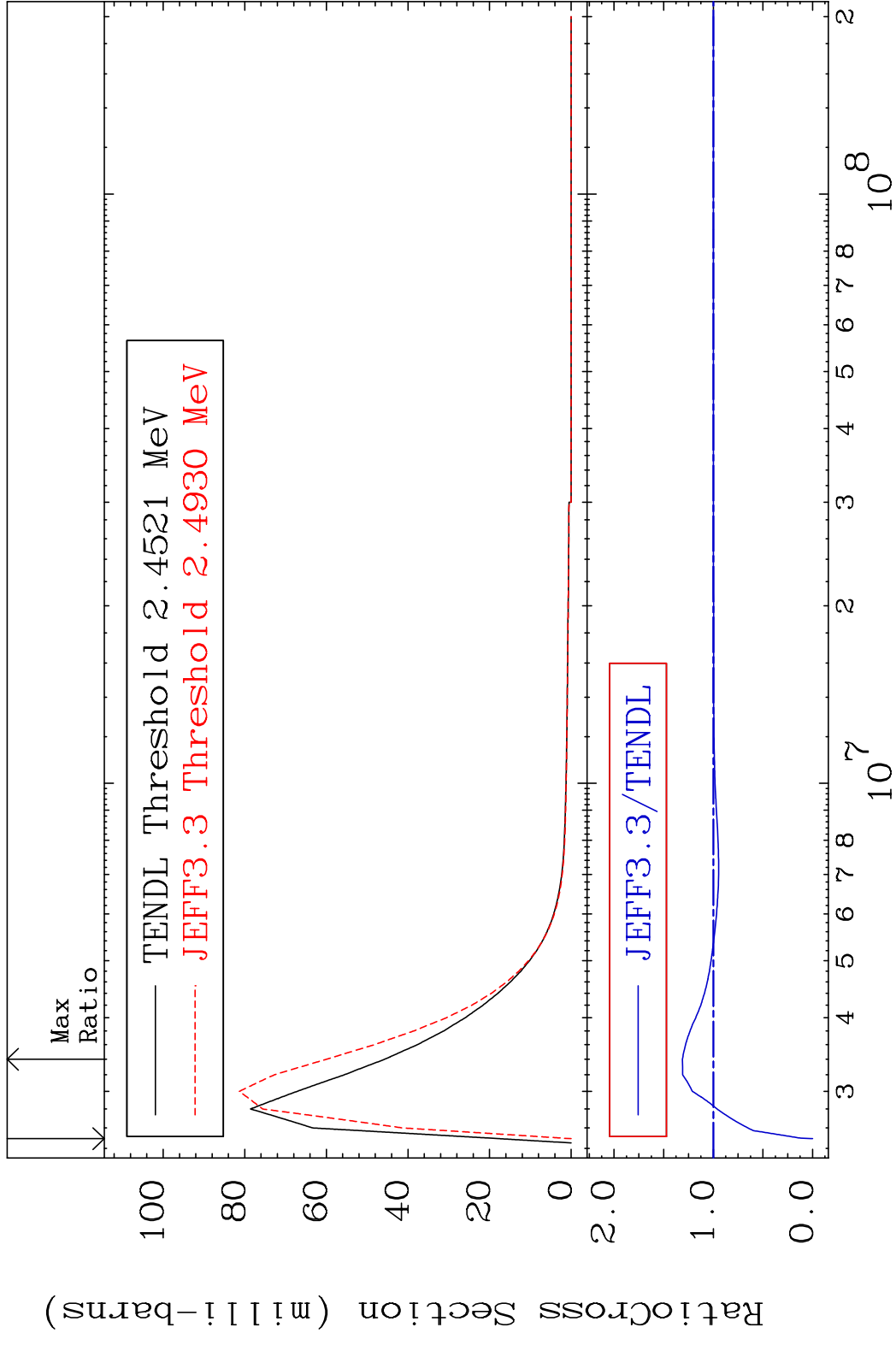
MAT 4431 MT= 69 (n, n') Level 44-Ru-98
 Cross Section -100.0 To 9999. %



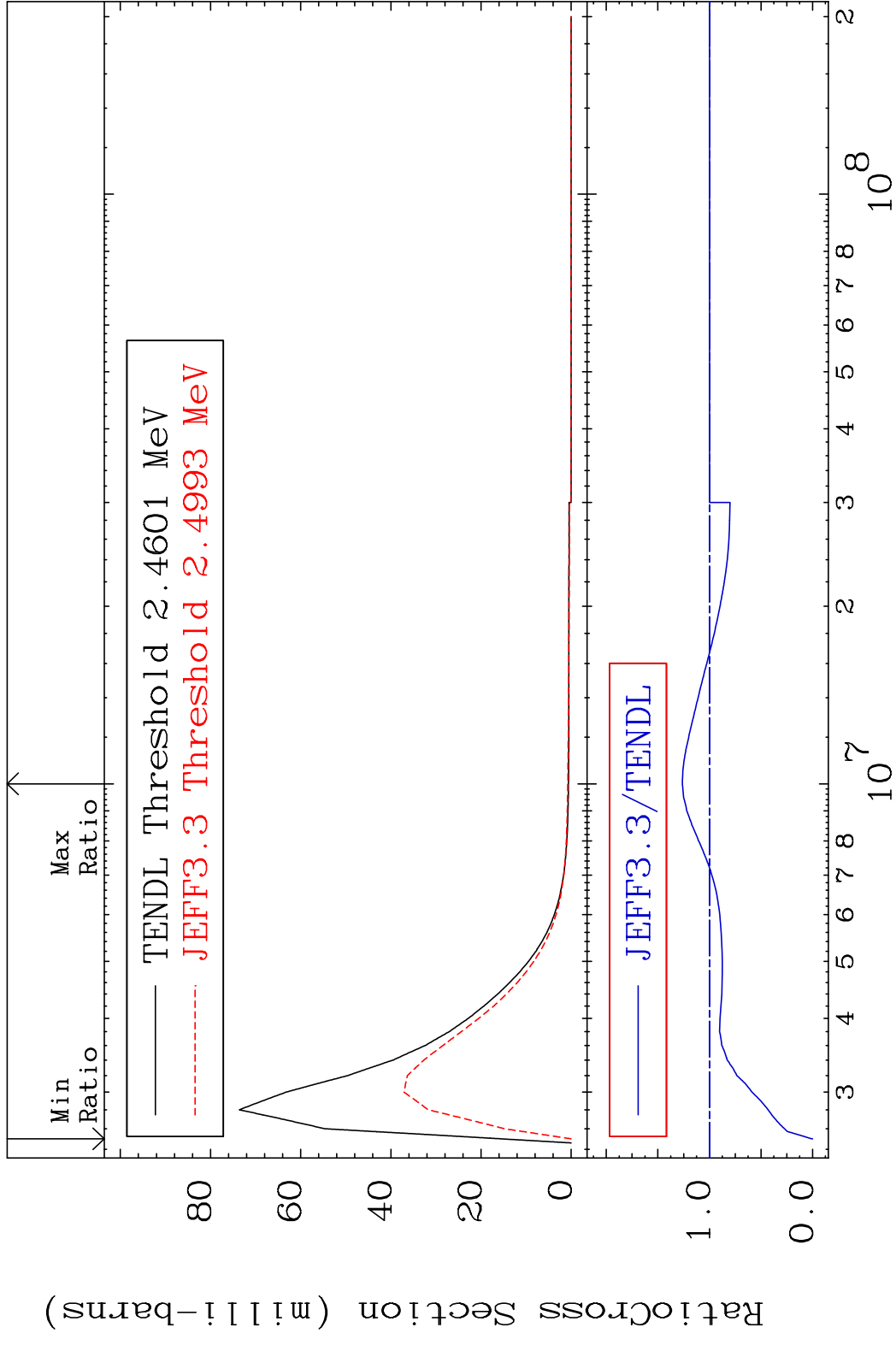
MAT 4431 MT= 70 (n, n') Level 44-Ru-98
 Cross Section -100.0 To 9.449 %



MAT 4431 MT= 71 (n, n') Level 44-Ru-98
 Cross Section -100.0 To 31.20 %

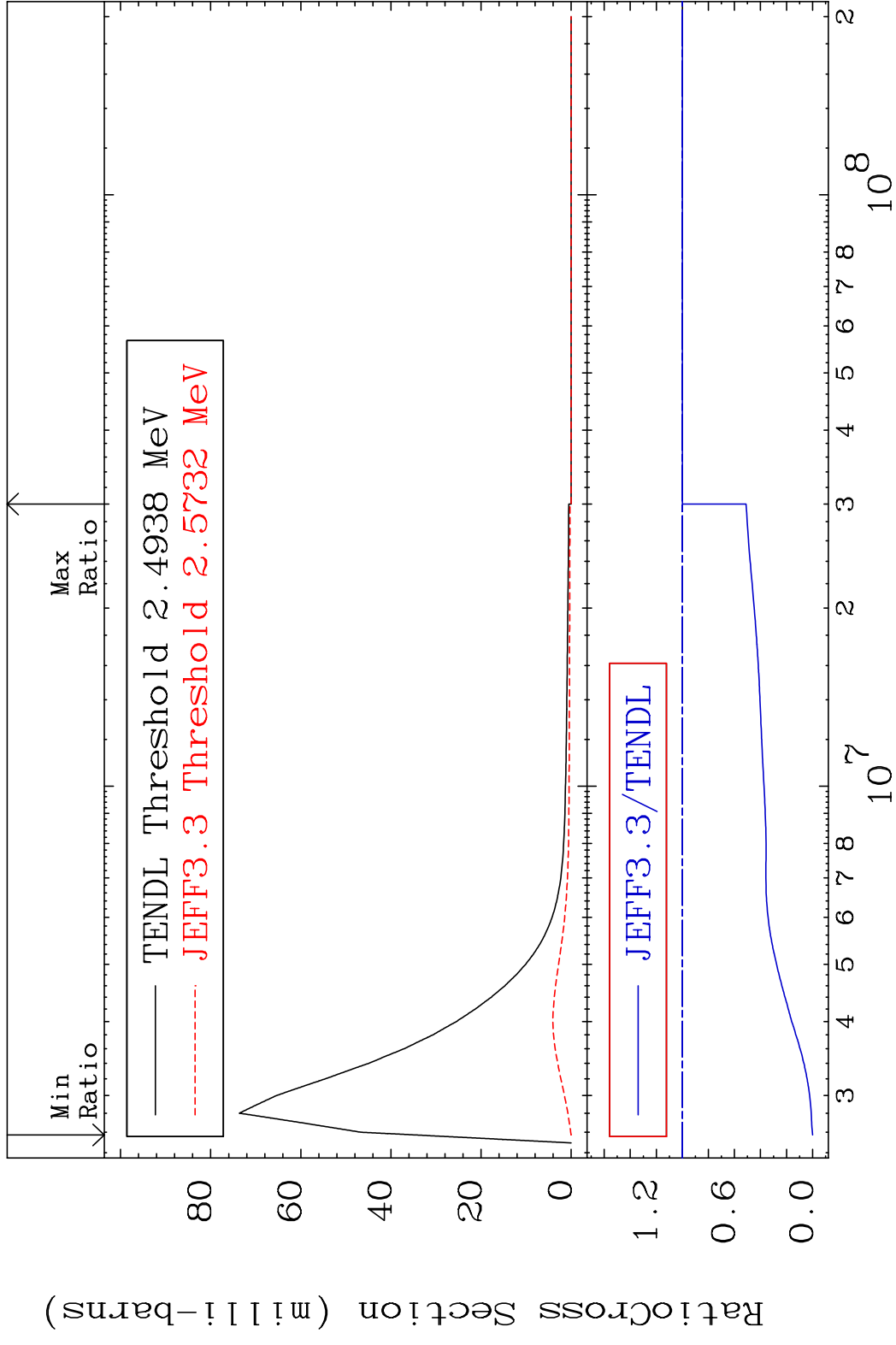


MAT 4431 MT= 72 (n, n') Level 44-Ru-98
 Cross Section -100.0 To 26.25 %

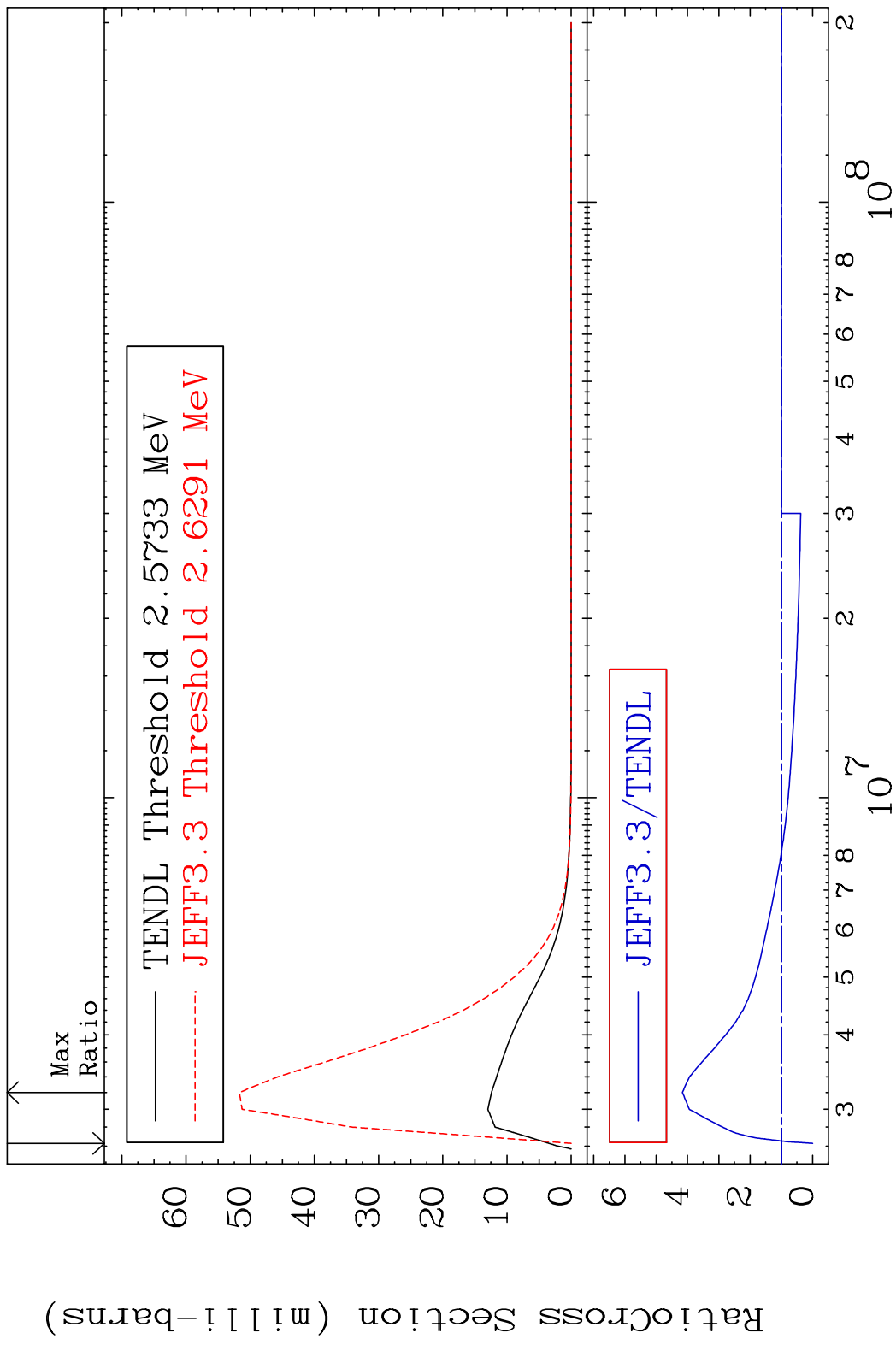


40 Incident Energy (eV) 44-Ru-98

MAT 4431 MT= 73 (n, n') Level 44-Ru-98
 Cross Section -100.0 To 0.000 %

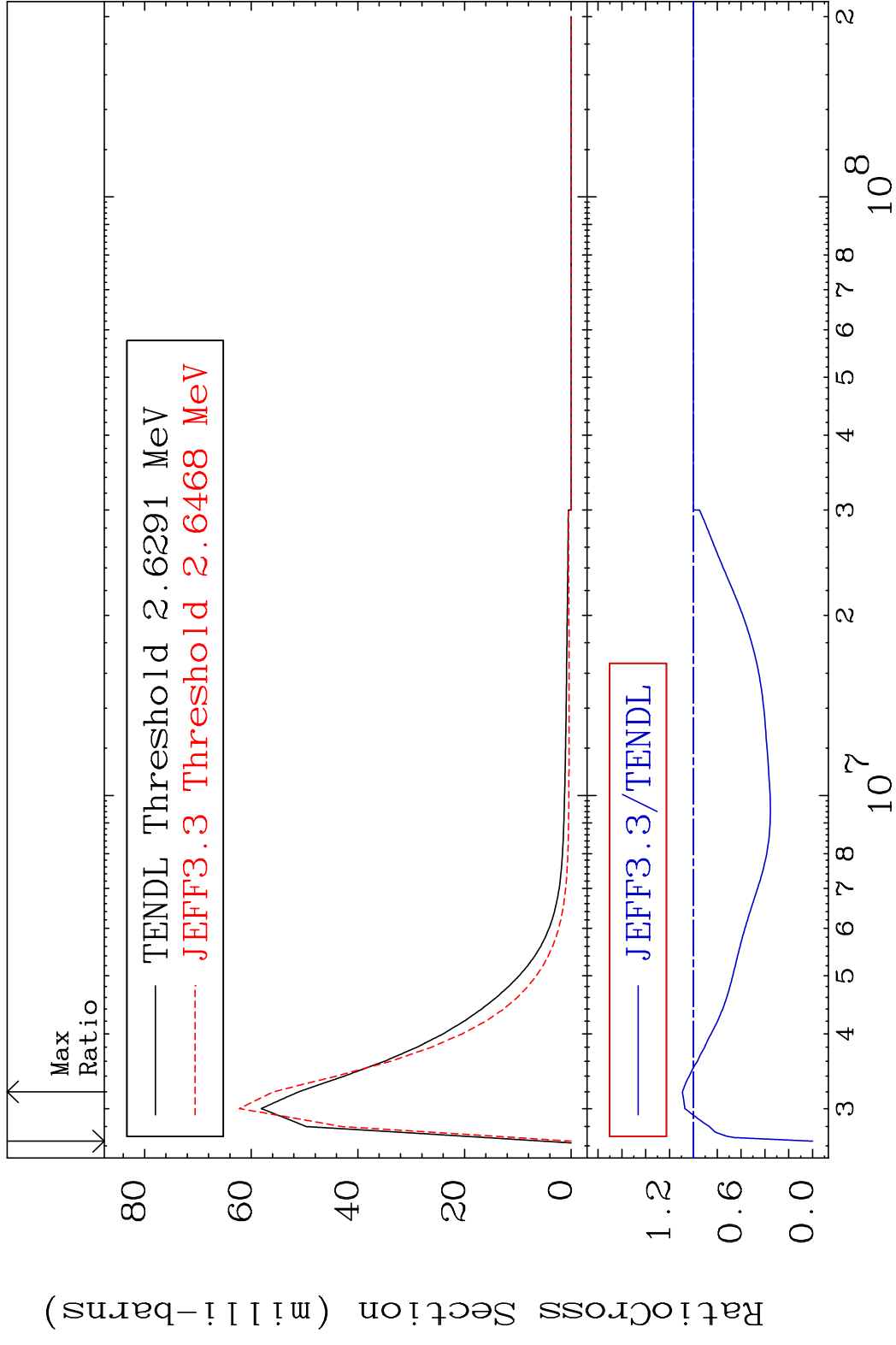


MAT 4431 MT= 74 (n, n') Level 44-Ru-98
 Cross Section -100.0 To 316.5 %



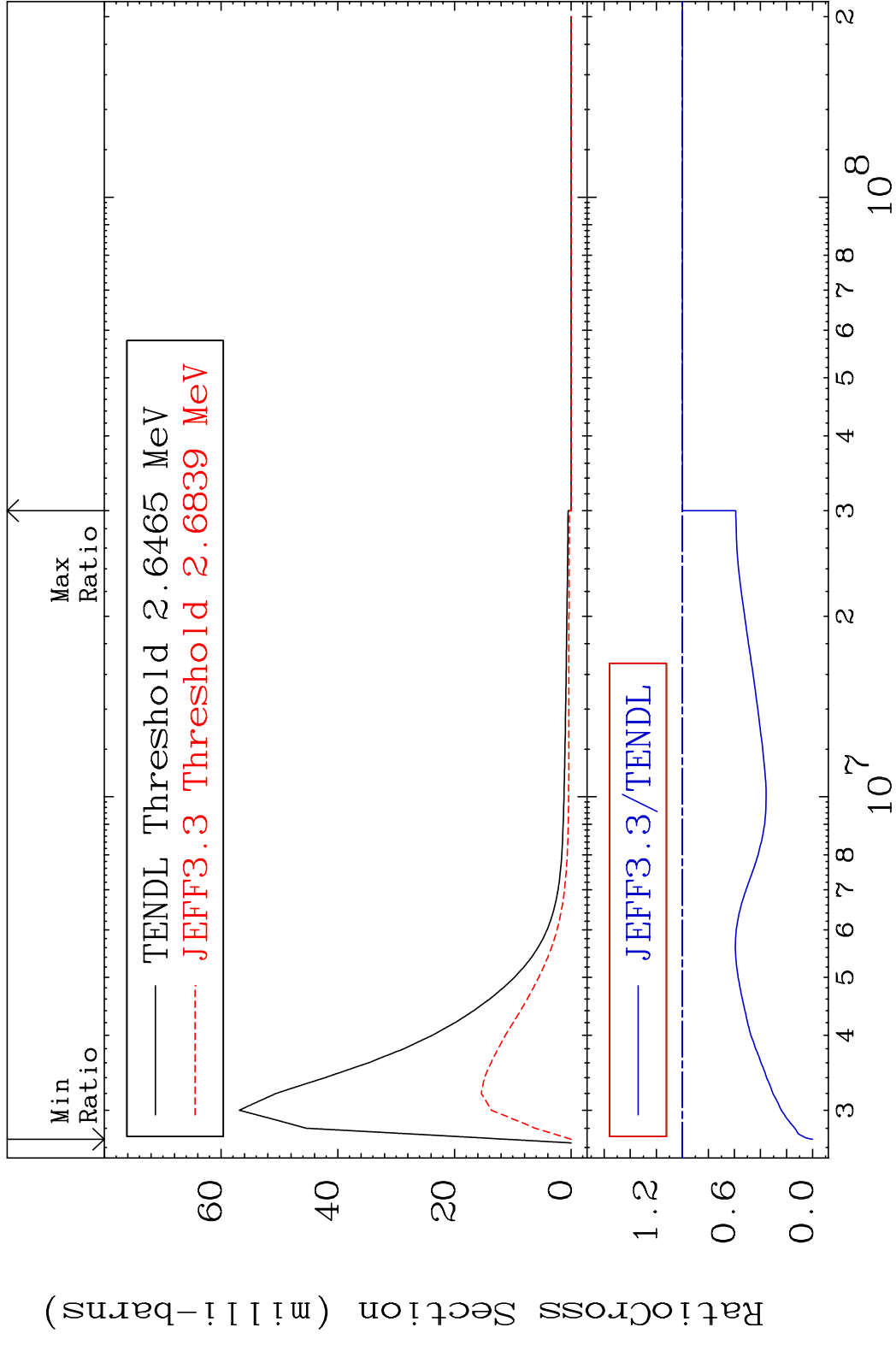
42 44-Ru-98

MAT 4431 MT= 75 (n, n') Level 44-Ru-98
 Cross Section -100.0 To 9.238 %



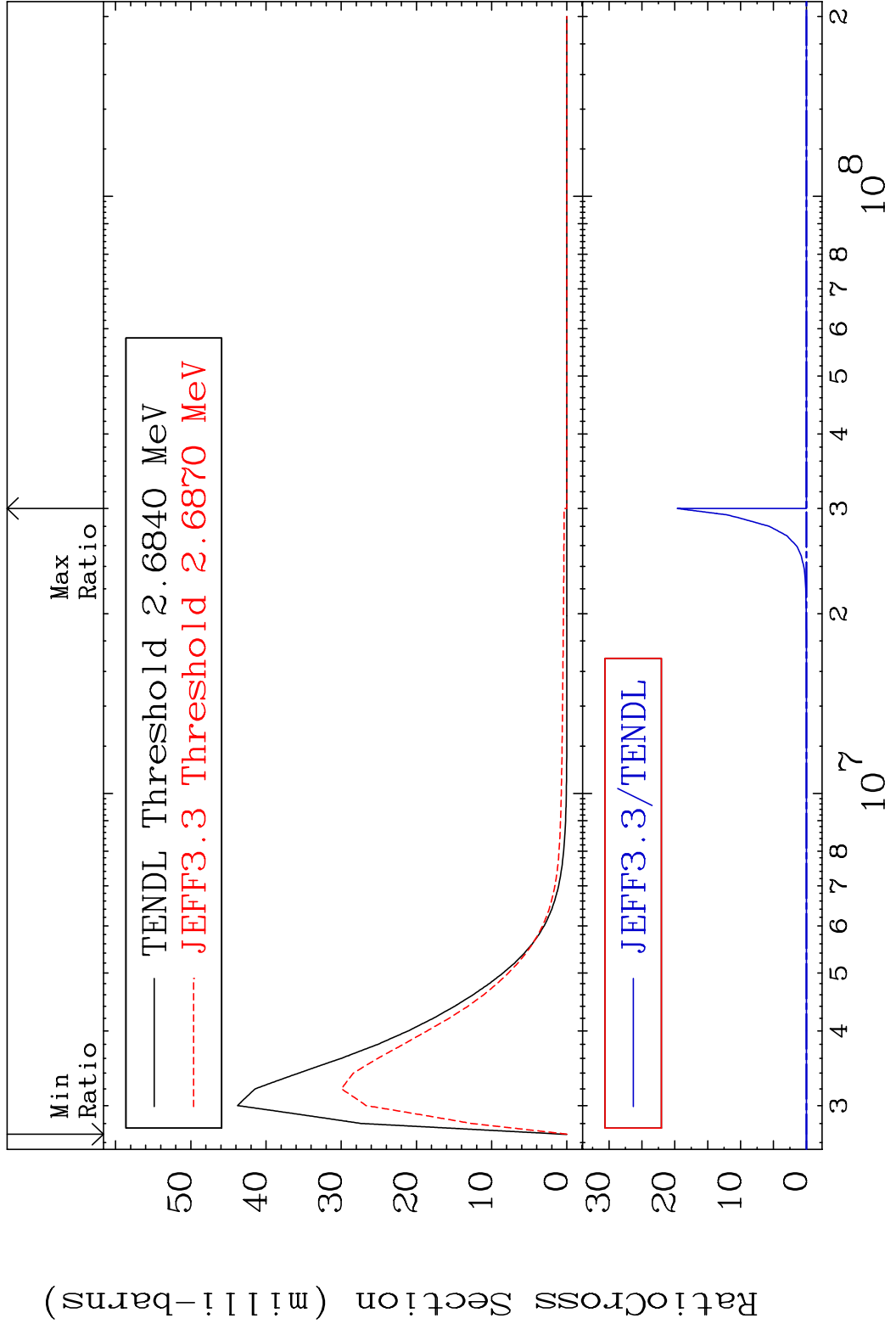
43 Incident Energy (eV) 44-Ru-98

MAT 4431 MT= 76 (n, n') Level 44-Ru-98
 Cross Section -100.0 To 0.000 %



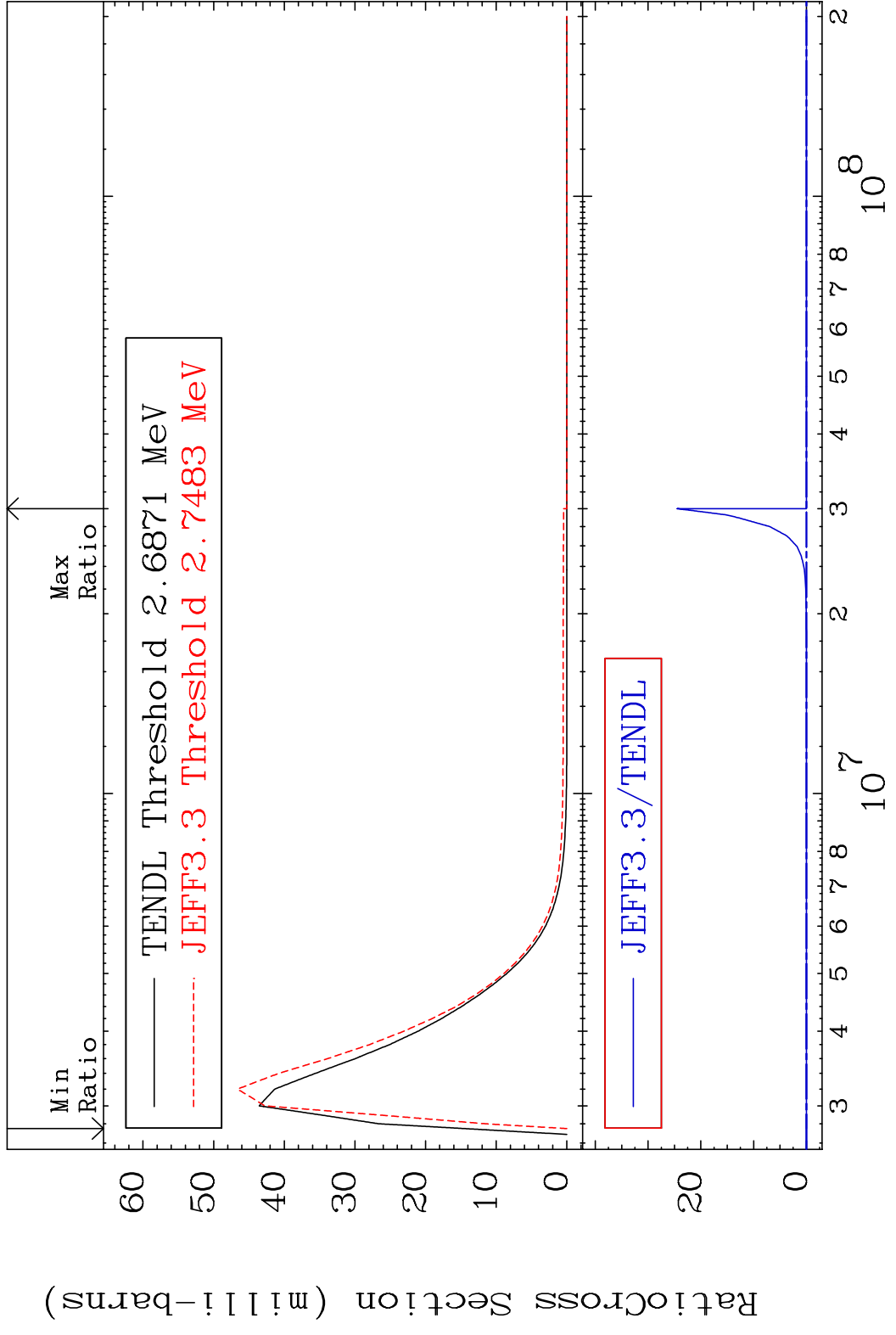
44 44-Ru-98

MAT 4431 MT= 77 (n, n') Level 44-Ru-98
 Cross Section -100.0 To 9999. %

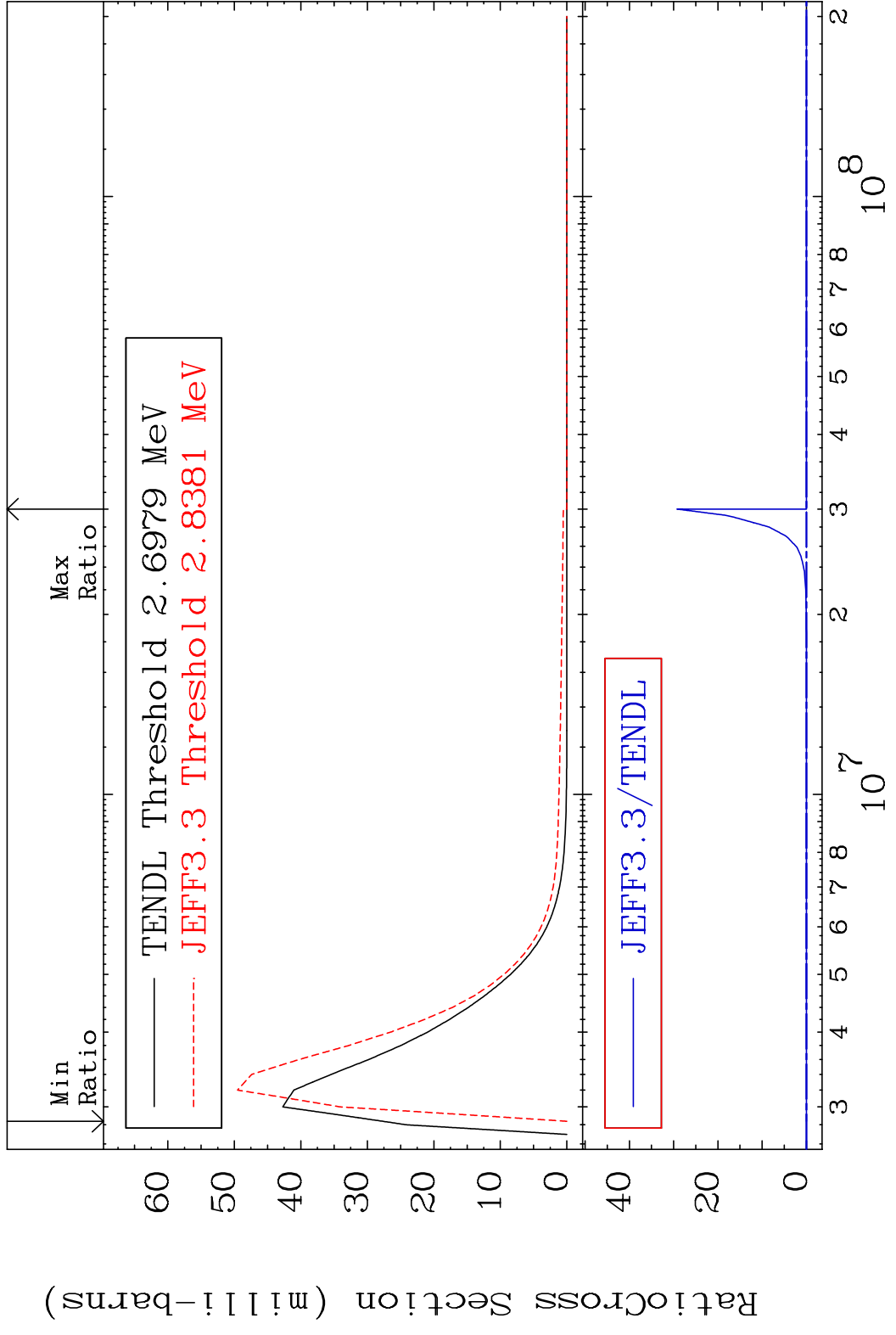


45 Incident Energy (eV) 44-Ru-98

MAT 4431 MT= 78 (n, n') Level 44-Ru-98
 Cross Section -100.0 To 9999. %



MAT 4431 MT= 79 (n, n') Level 44-Ru-98
 Cross Section -100.0 To 9999. %



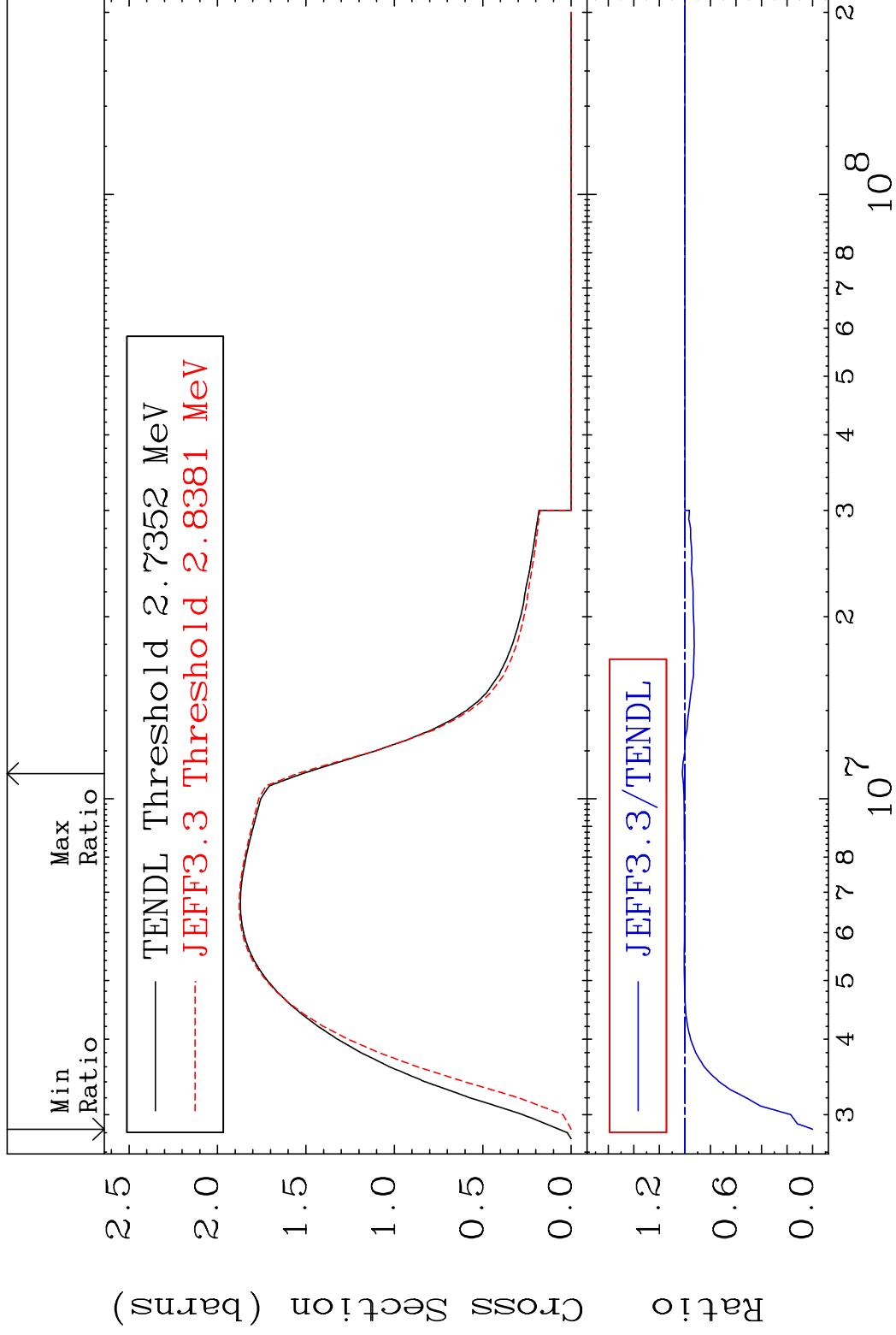
47 44-Ru-98

MAT 4431

(n, n') Continuum

44-Ru-98

Cross Section -100.0 To 1.970 %



48

Incident Energy (eV)

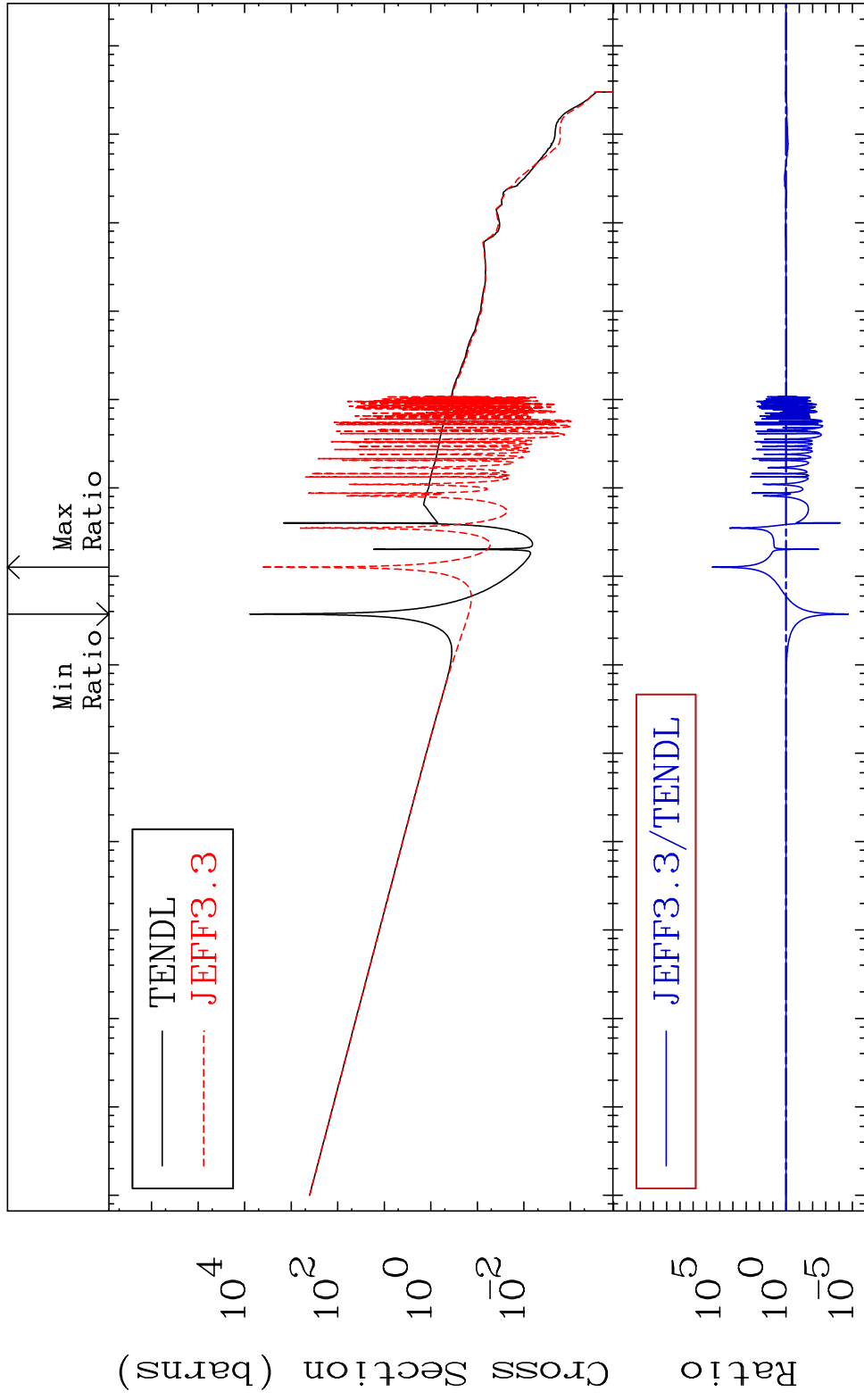
44-Ru-98

MAT 4431

(n, γ)

44-Ru-98

Cross Section -100.0 To 9999. %



49

Incident Energy (eV)

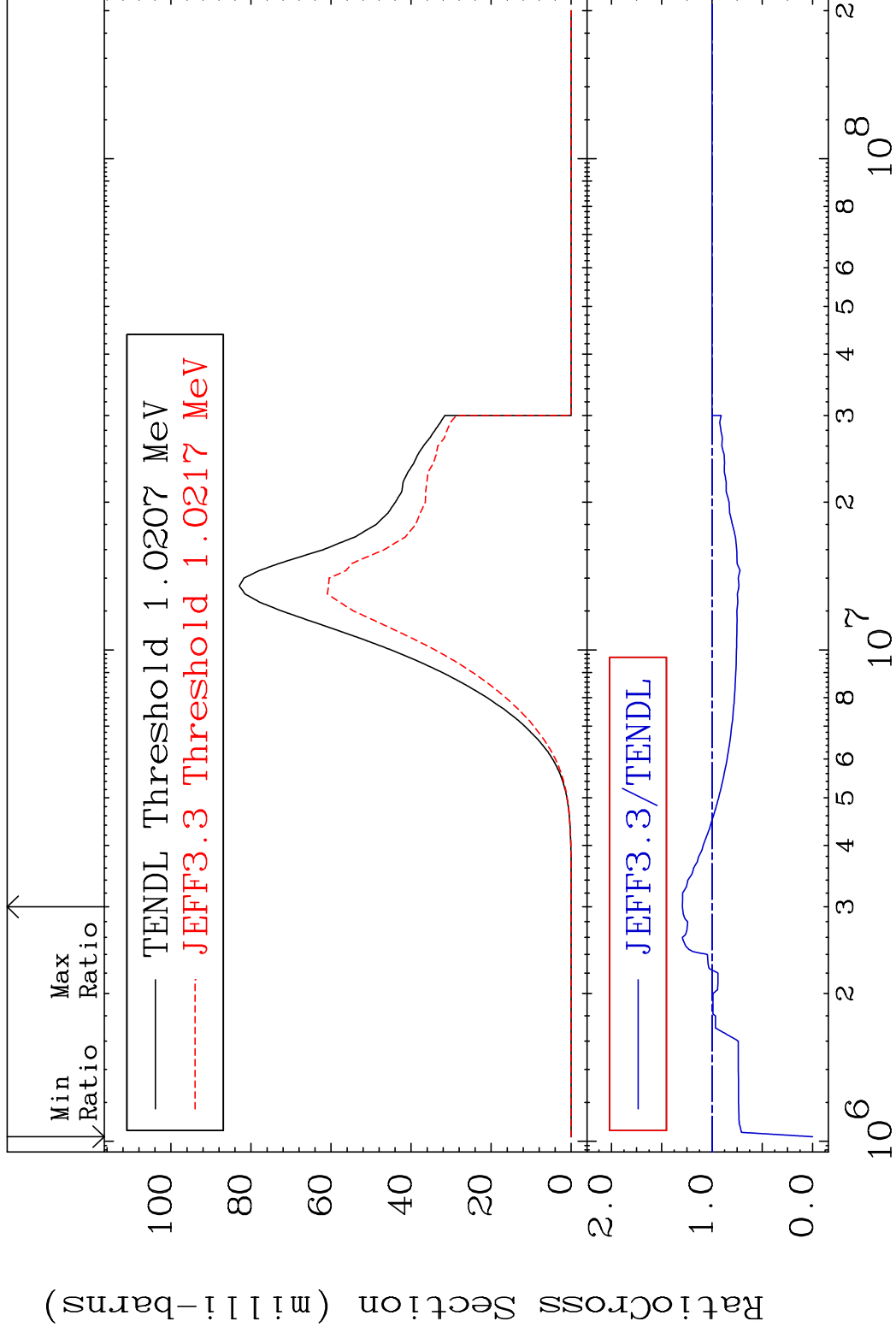
44-Ru-98

MAT 4431

(n, p)

44-Ru-98

Cross Section -100.0 To 29.46 %



50

Incident Energy (eV)

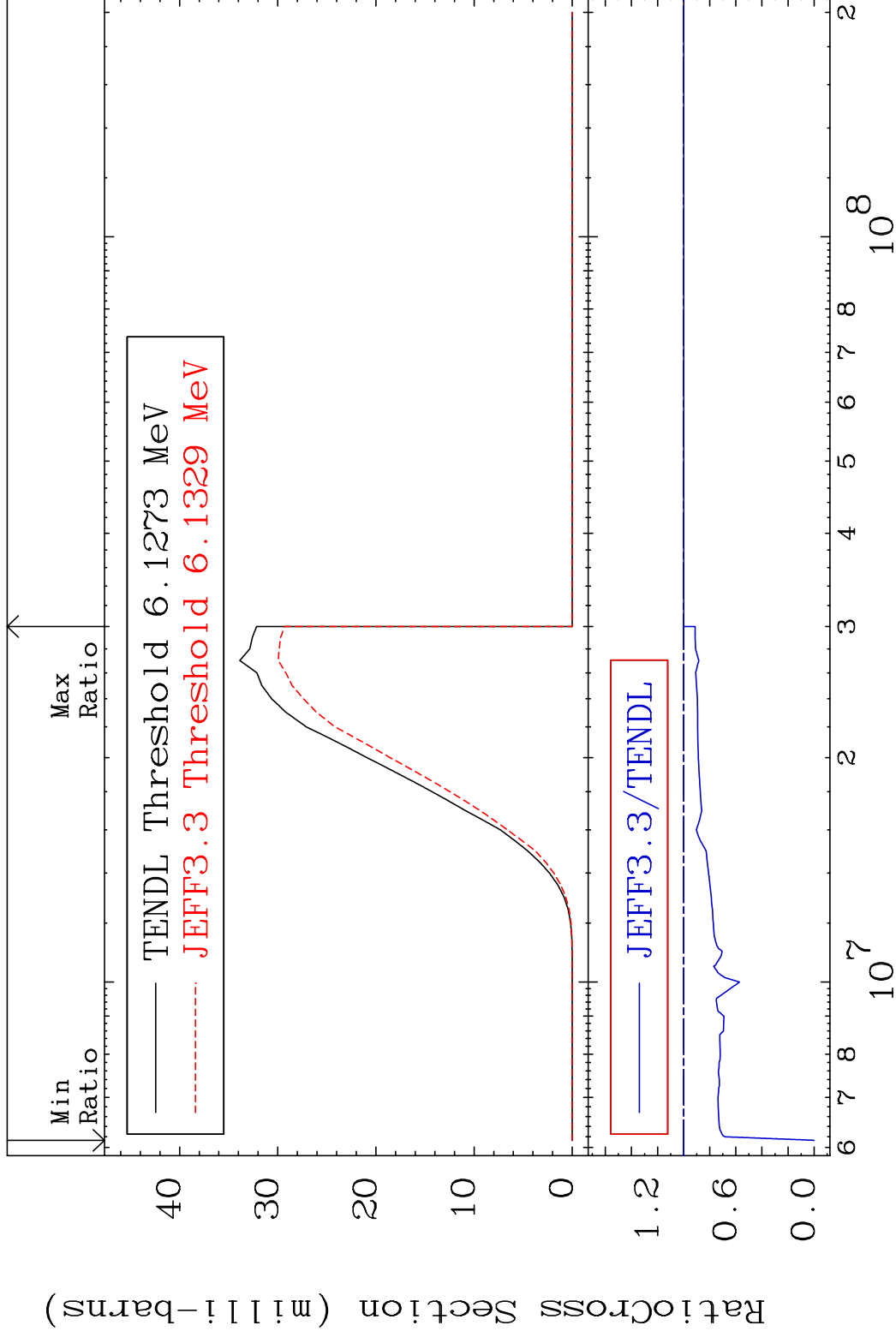
44-Ru-98

MAT 4431

(n, d)

44-Ru-98

Cross Section -100.0 To 0.000 %



51

Incident Energy (eV)

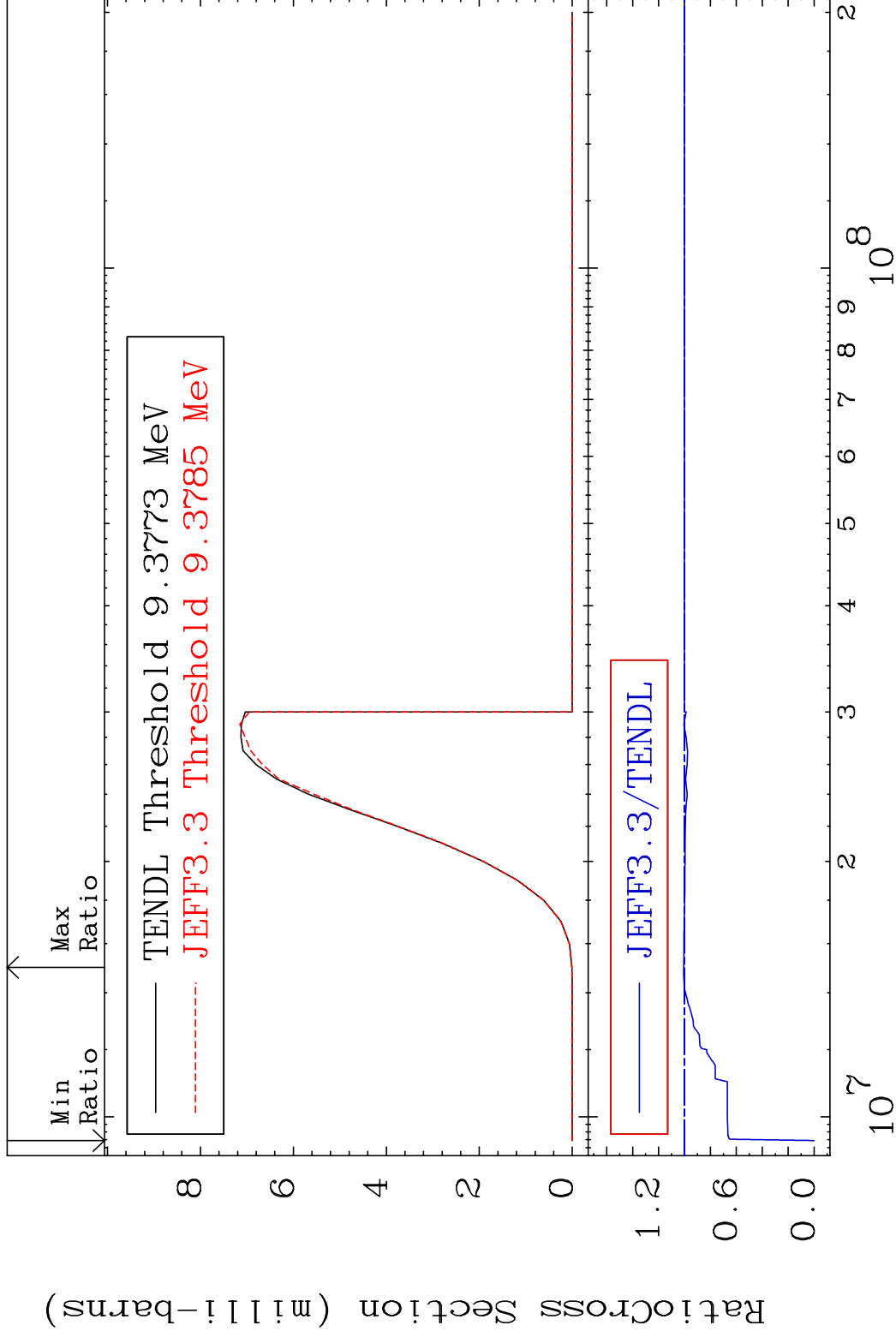
44-Ru-98

MAT 4431

(n, t)

44-Ru-98

Cross Section -100.0 To 0.634 %



52

Incident Energy (eV)

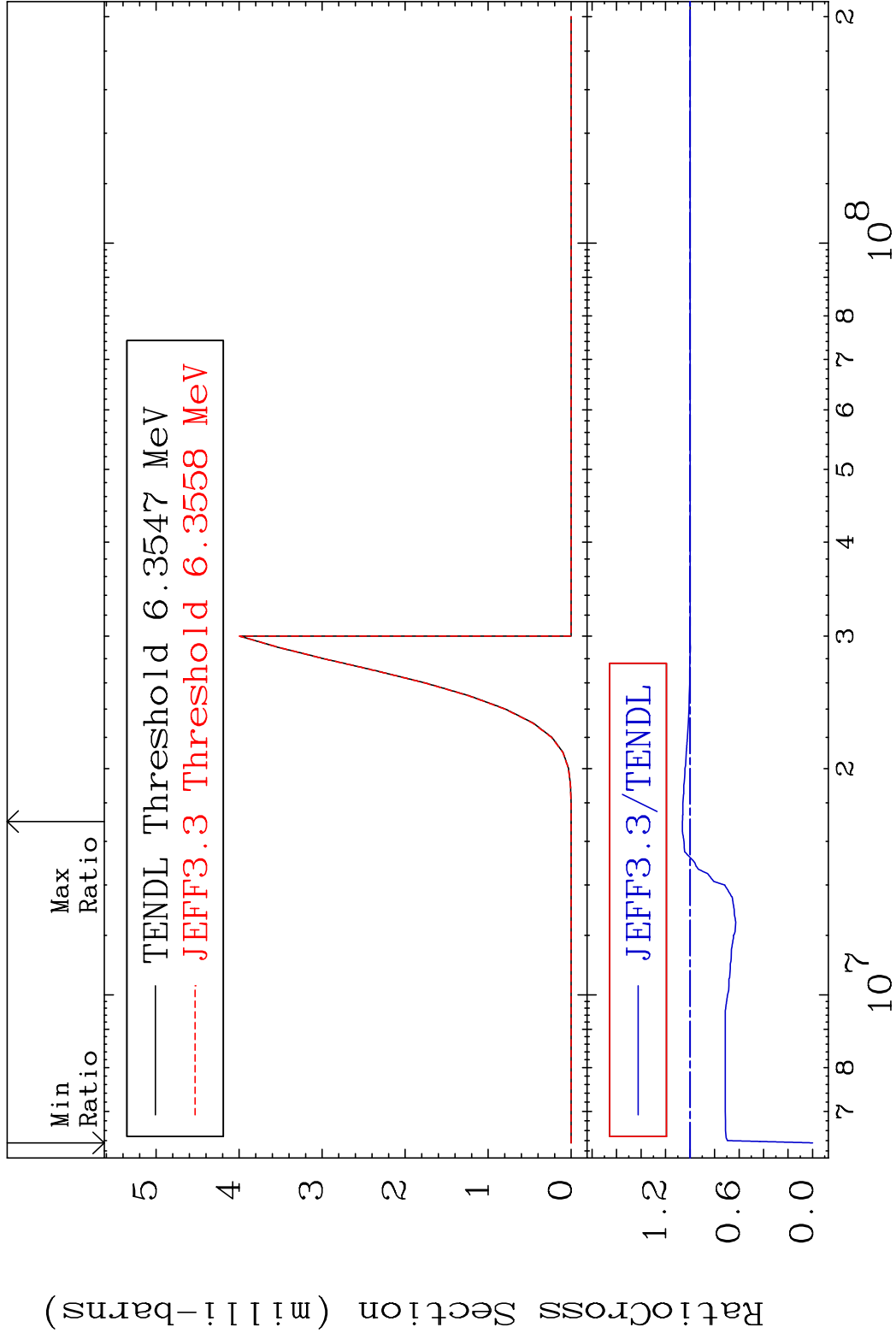
44-Ru-98

MAT 4431

(n, He-3)

44-Ru-98

Cross Section -100.0 To 6.293 %



53

Incident Energy (eV)

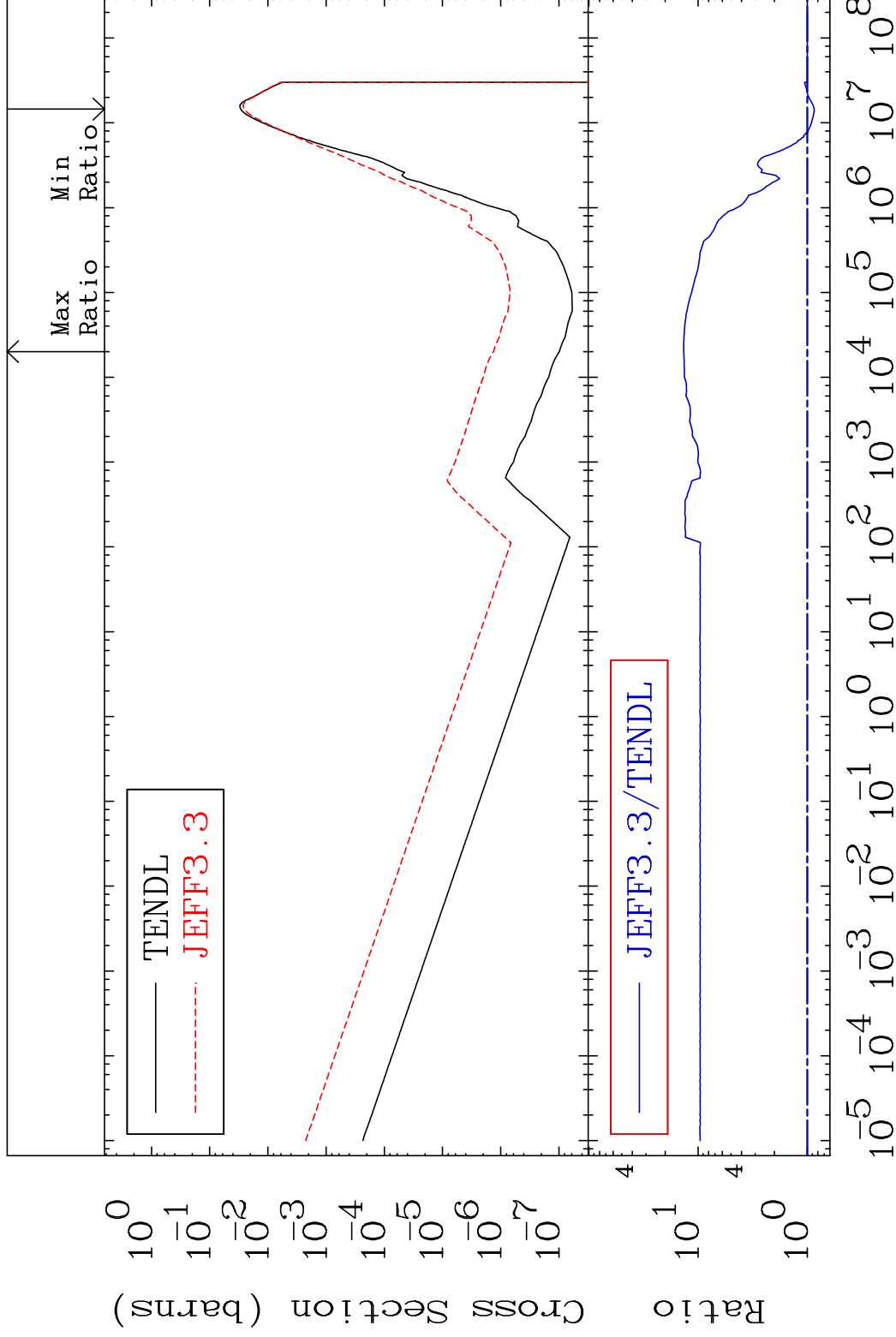
44-Ru-98

MAT 4431

(n, α)

44-Ru-98

Cross Section -13.52 To 1256. %



54

Incident Energy (eV)

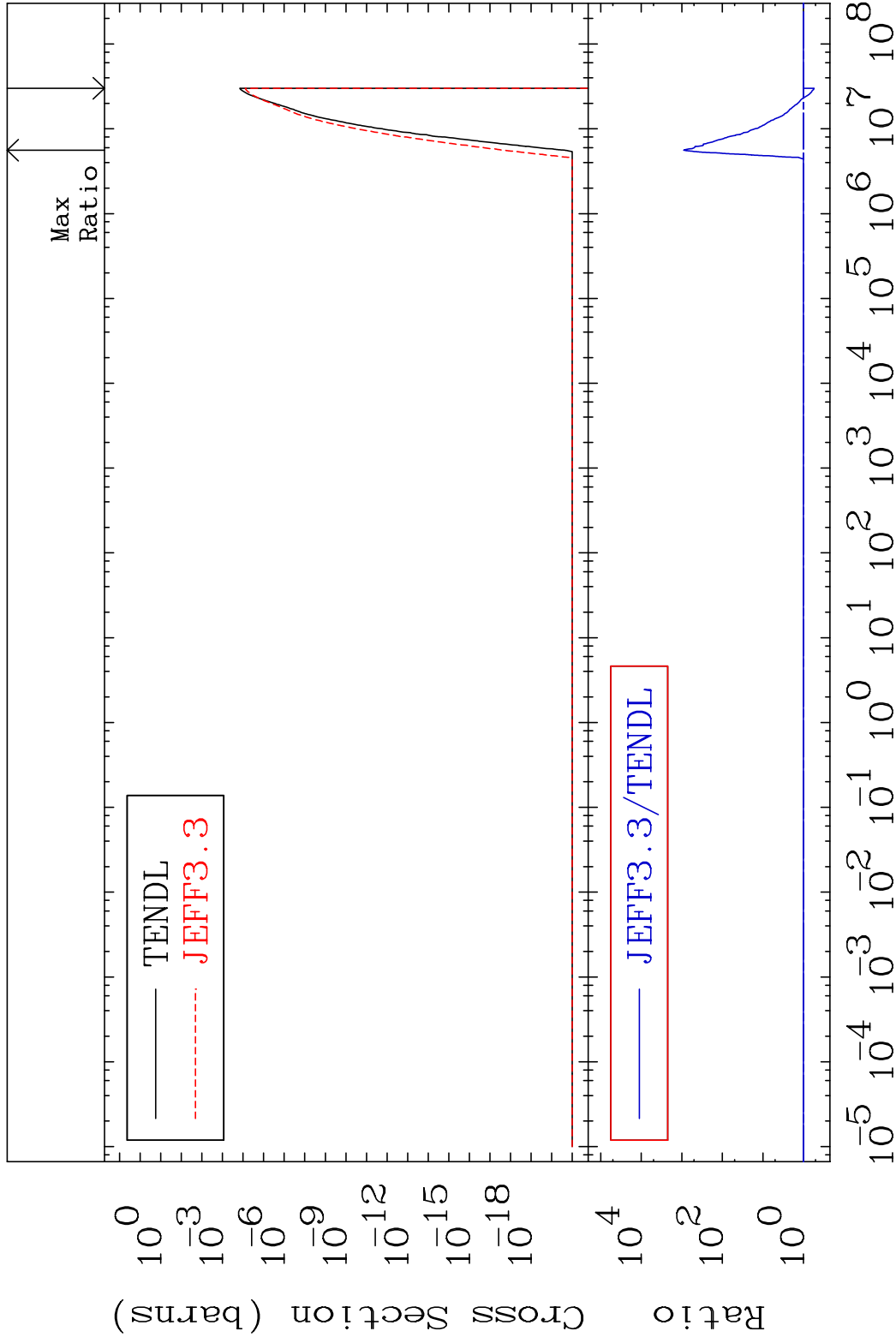
44-Ru-98

MAT 4431

(n,2α)

44-Ru-98

Cross Section -45.48 To 9999. %



55

Incident Energy (eV)

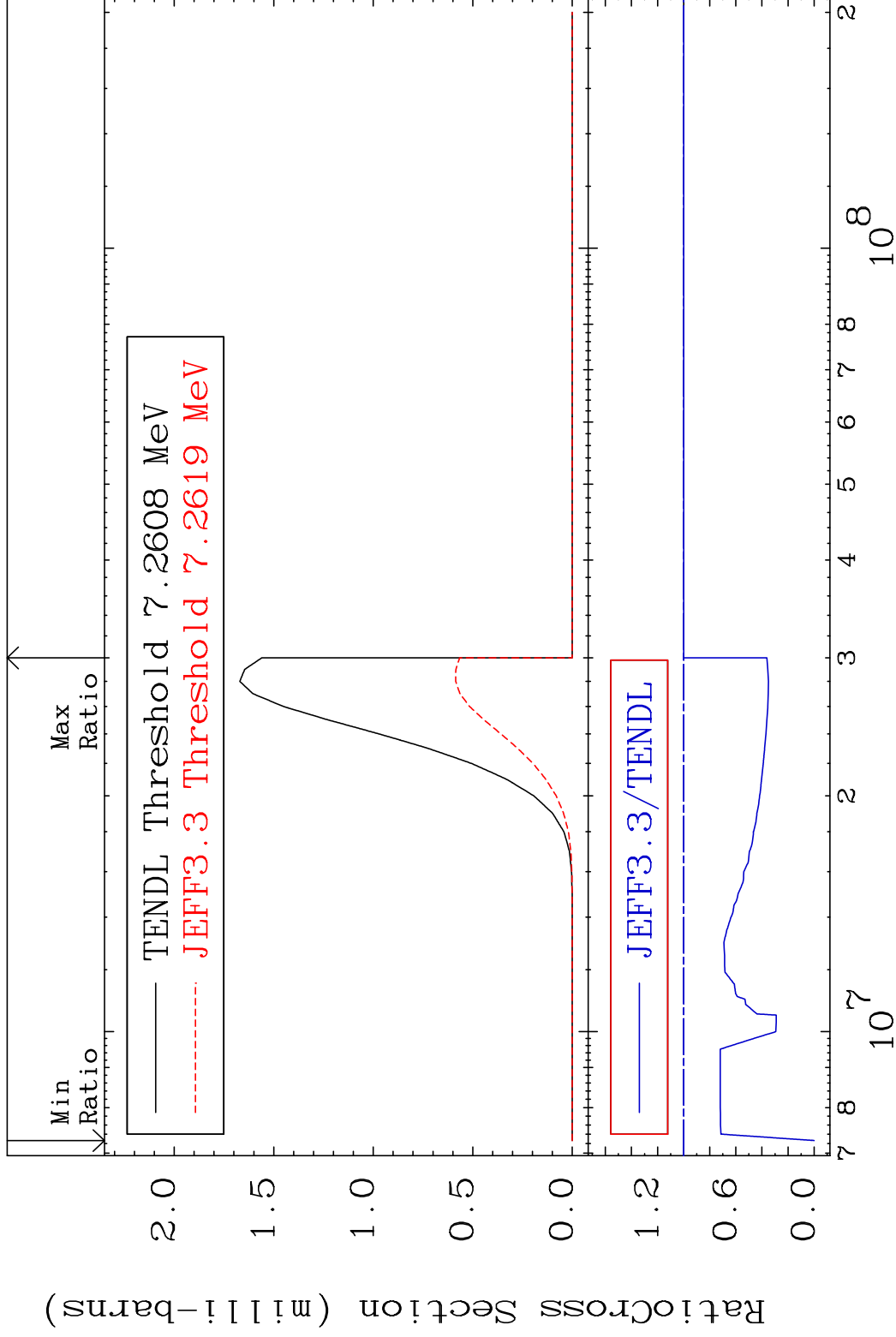
44-Ru-98

MAT 4431

(n,2p)

44-Ru-98

Cross Section -100.0 To 0.000 %



56

Incident Energy (eV)

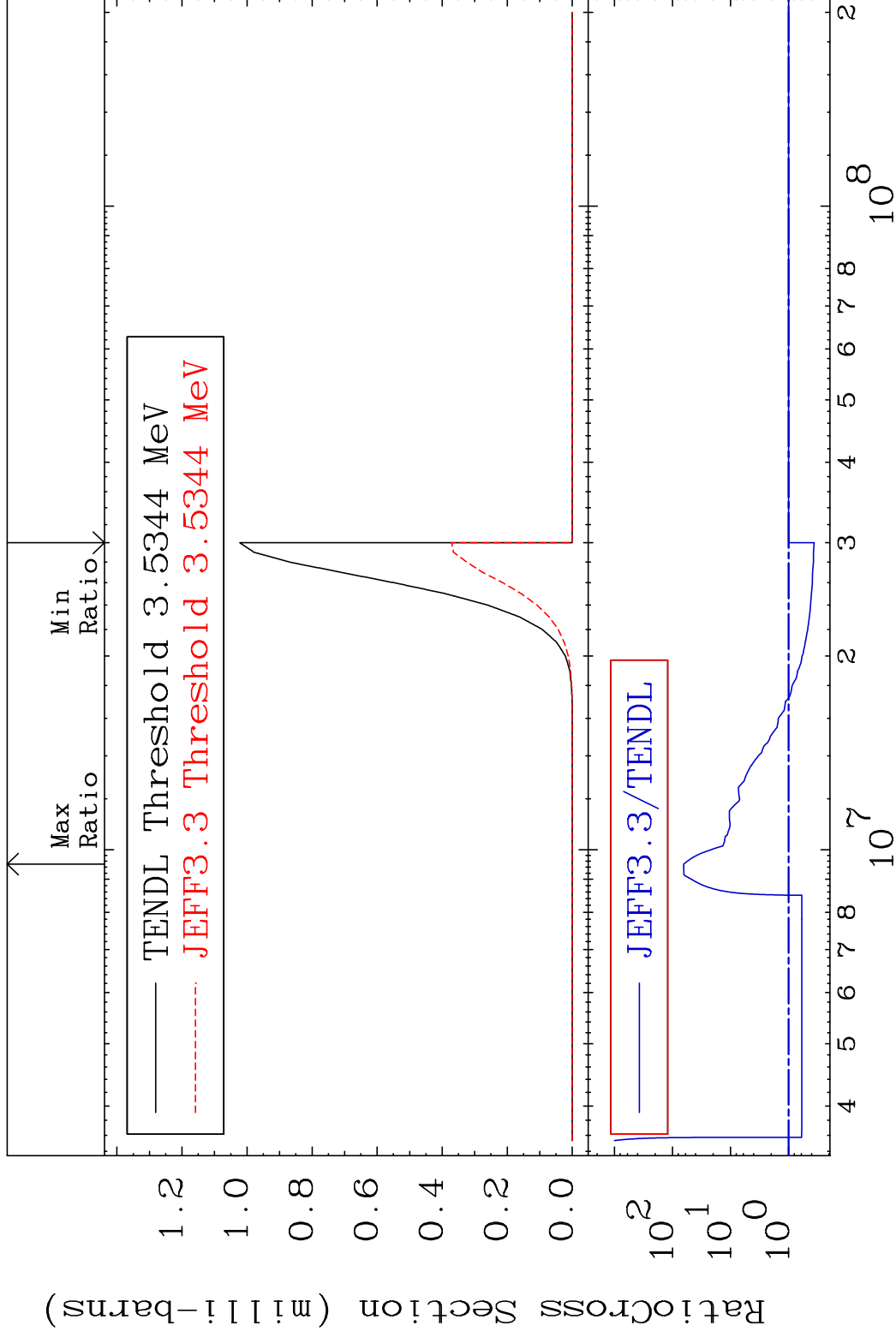
44-Ru-98

MAT 4431

(n,p) α

44-Ru-98

Cross Section -63.72 To 6337. %



57

Incident Energy (eV)

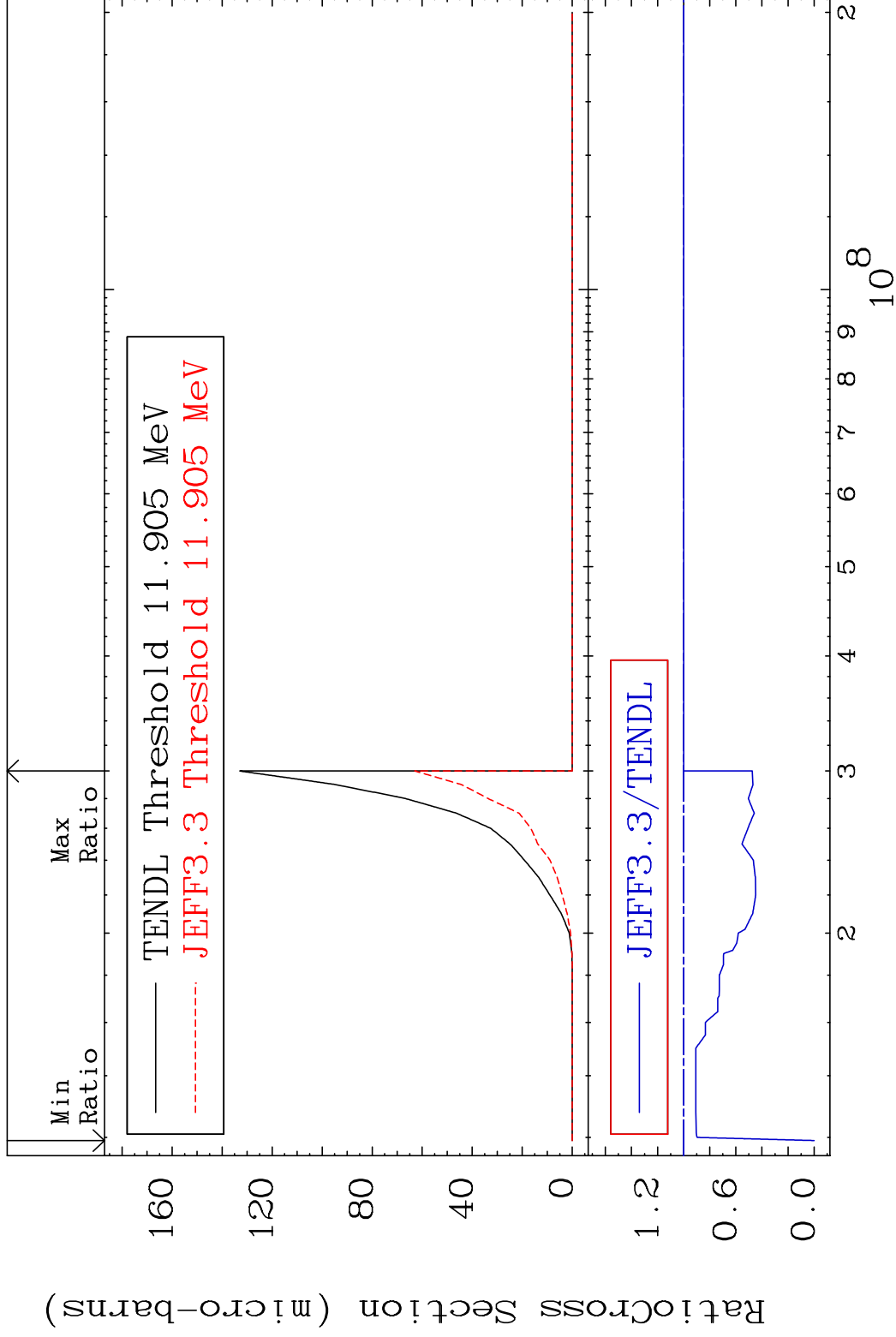
44-Ru-98

MAT 4431

(n,p) d

44-Ru-98

Cross Section -100.0 To 0.000 %

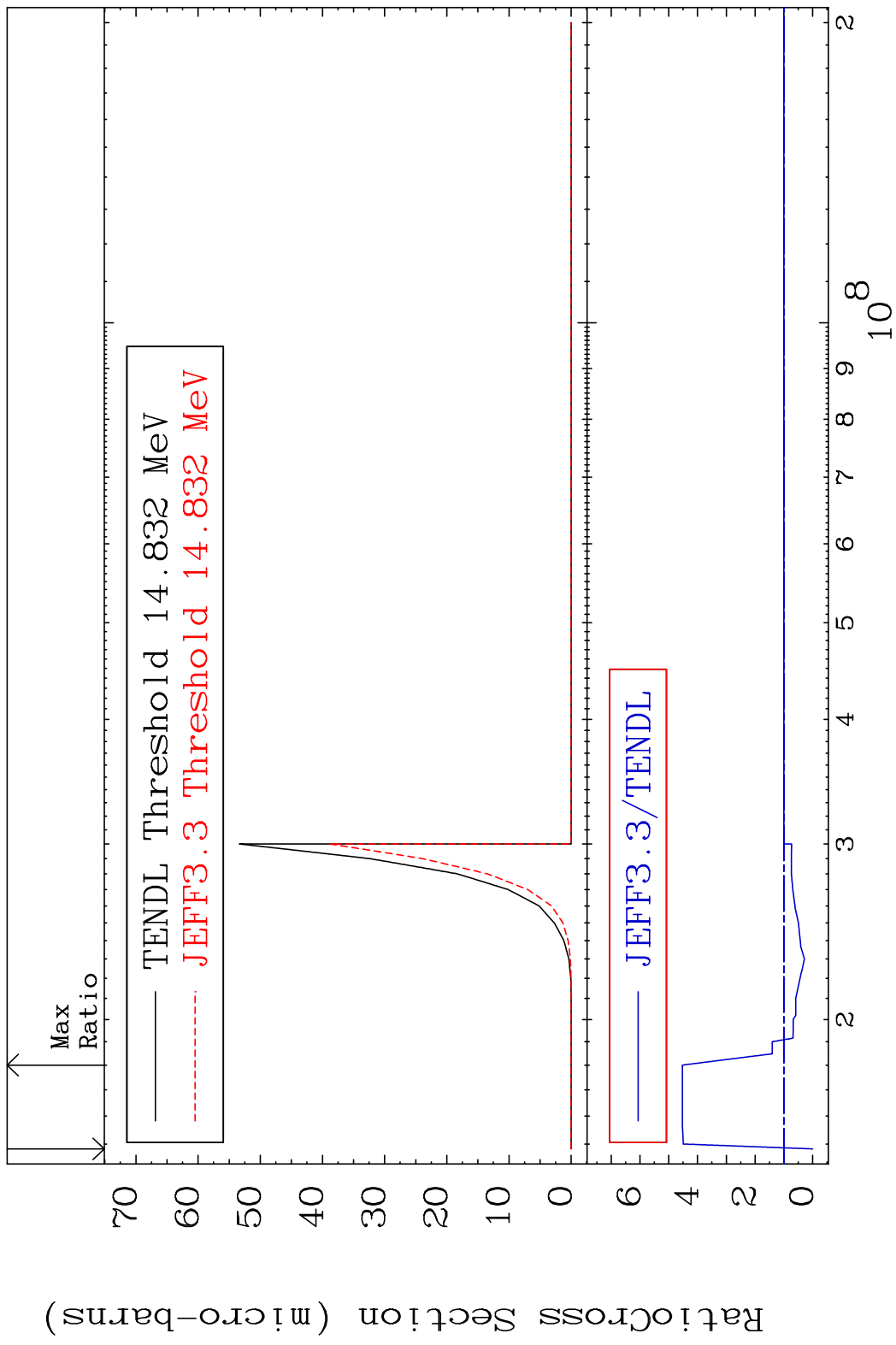


58

Incident Energy (eV)

44-Ru-98

MAT 4431 (n,p) t 44-Ru-98
 Cross Section -100.0 To 352.8 %

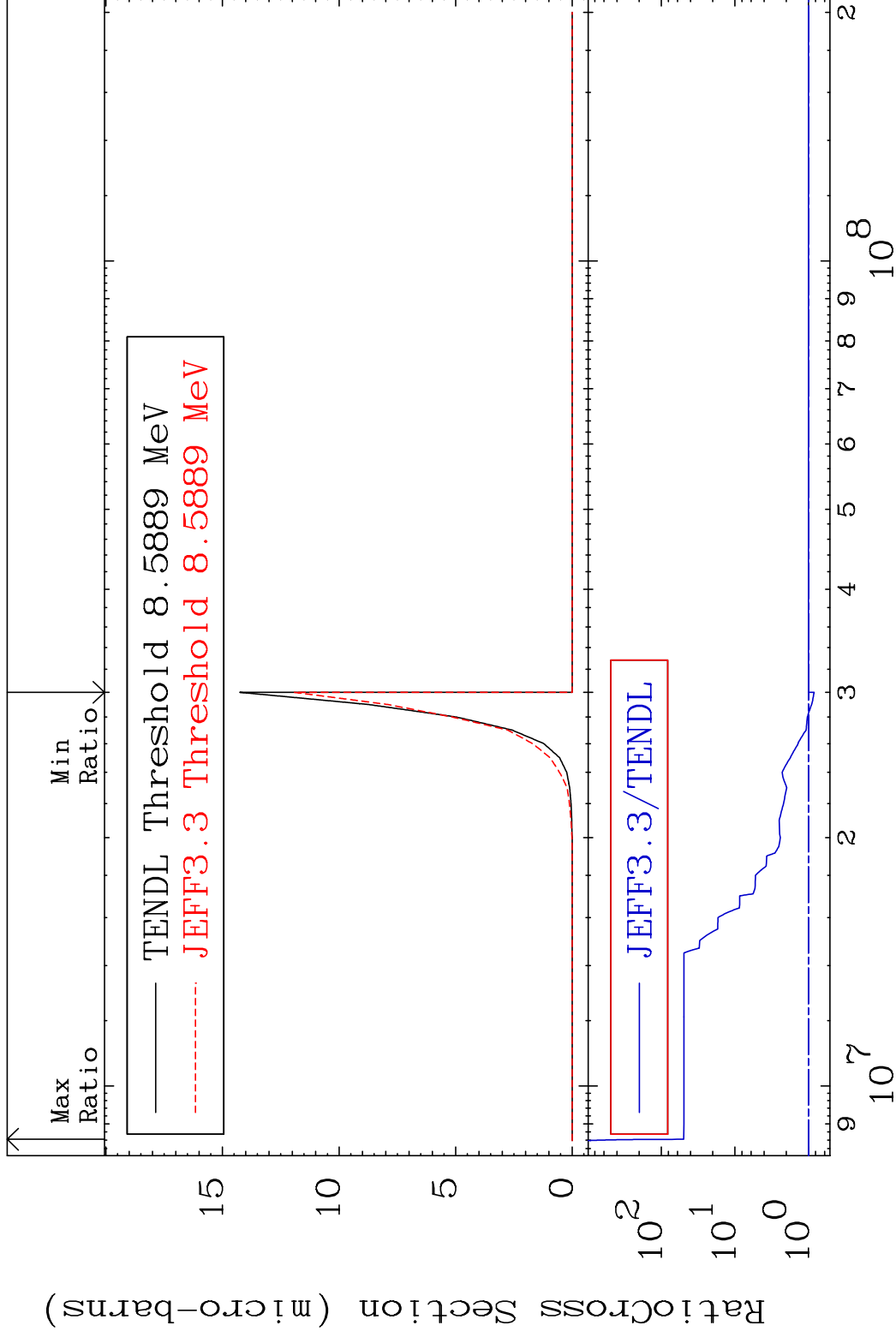


MAT 4431

(n,d) α

44-Ru-98

Cross Section -16.34 To 4865. %

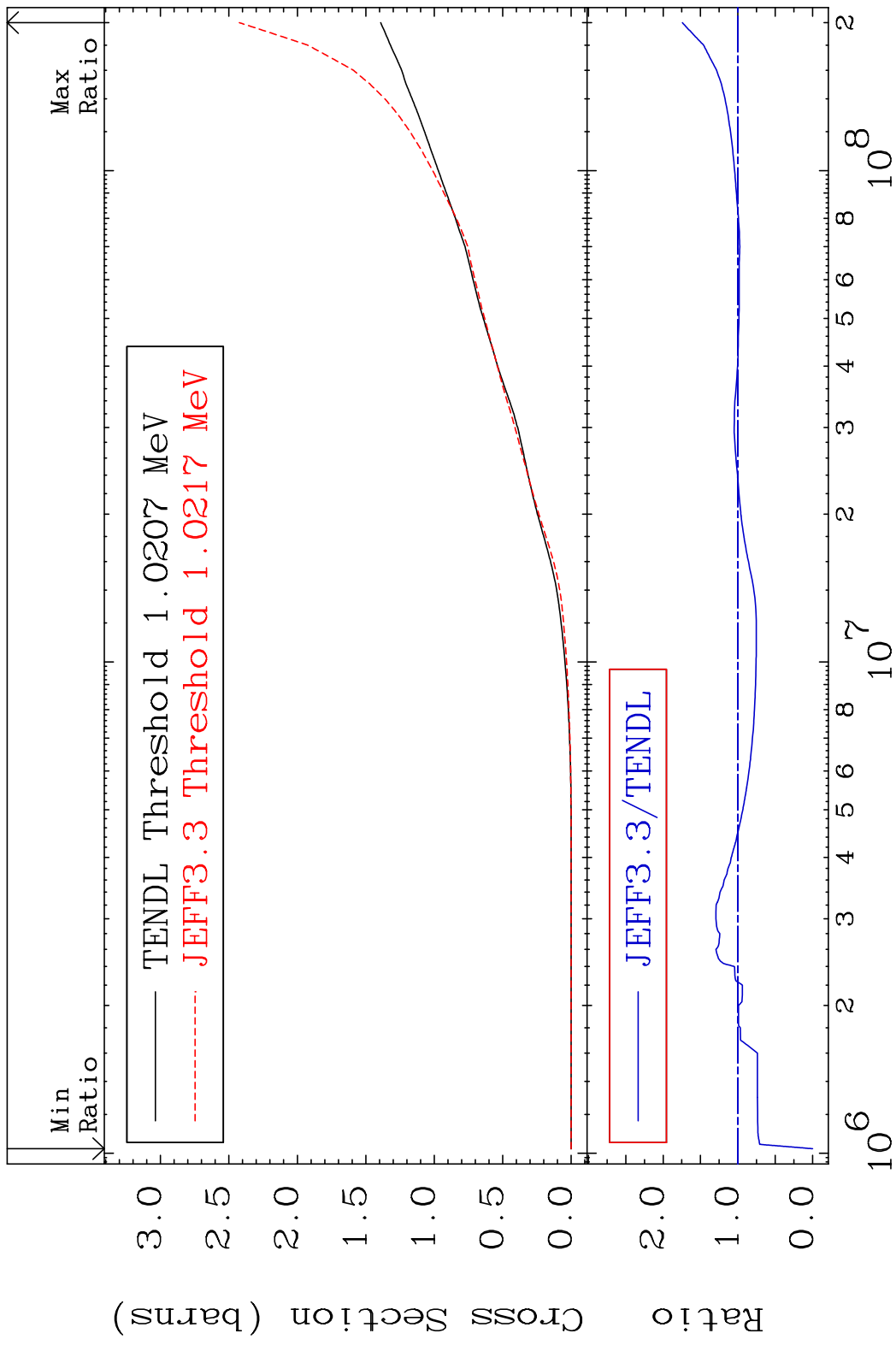


60

Incident Energy (eV)

44-Ru-98

MAT 4431 Hydrogen Production 44-Ru-98
 Cross Section -100.0 To 74.27 %



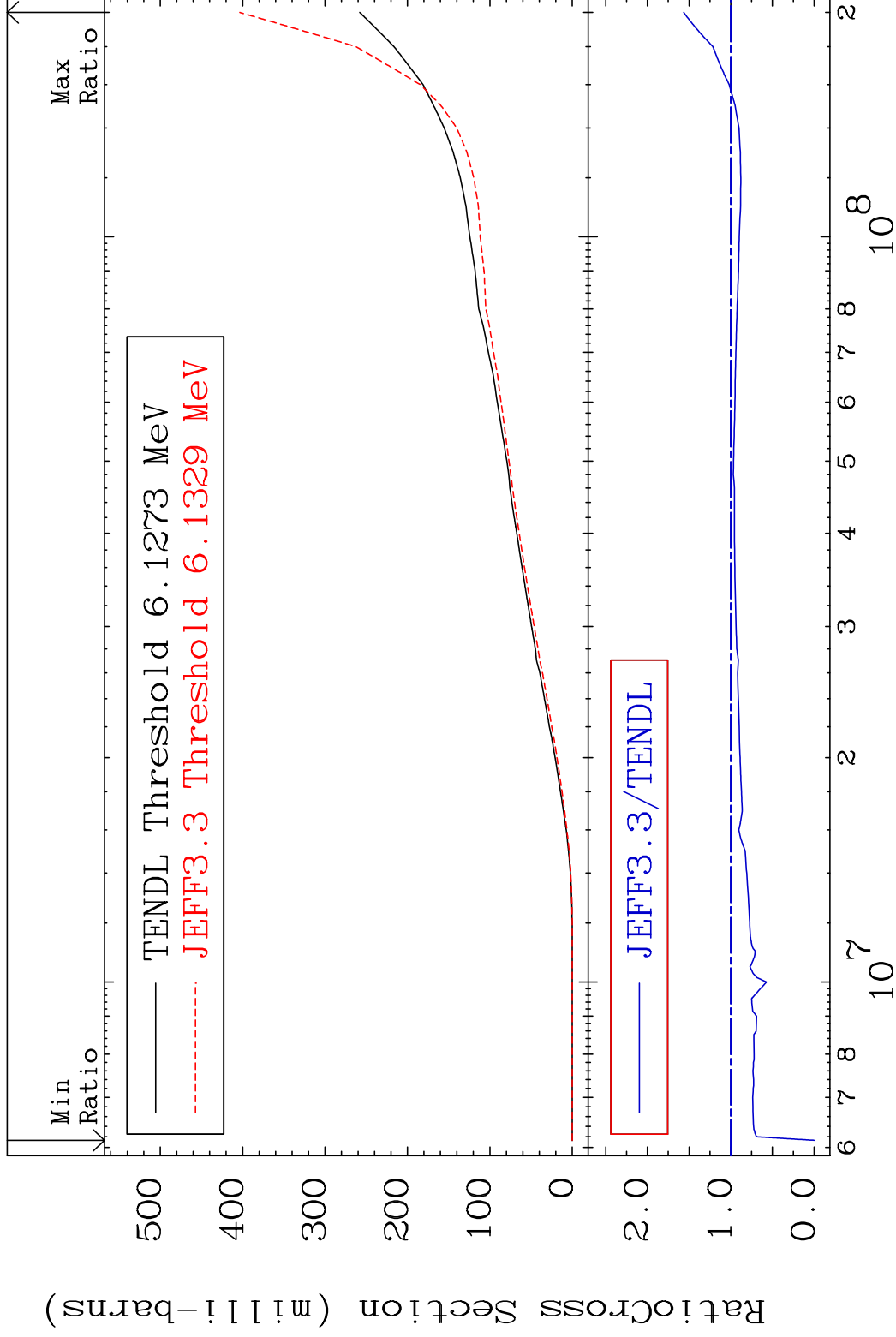
61 Incident Energy (eV) 44-Ru-98

MAT 4431

Deuterium Production

44-Ru-98

Cross Section -100.0 To 56.49 %



62

Incident Energy (eV)

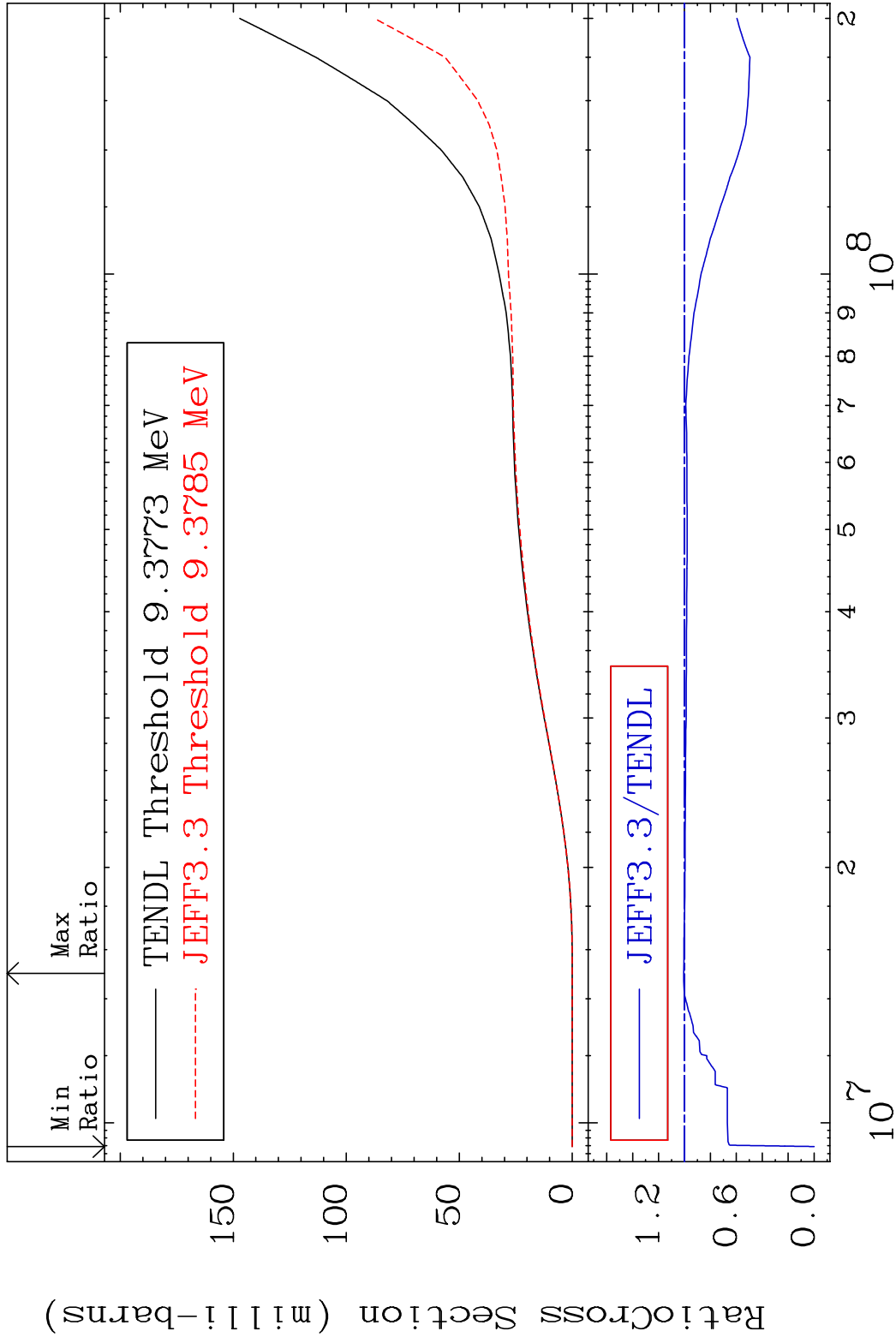
44-Ru-98

MAT 4431

Tritium Production

44-Ru-98

Cross Section -100.0 To 0.634 %



63

Incident Energy (eV)

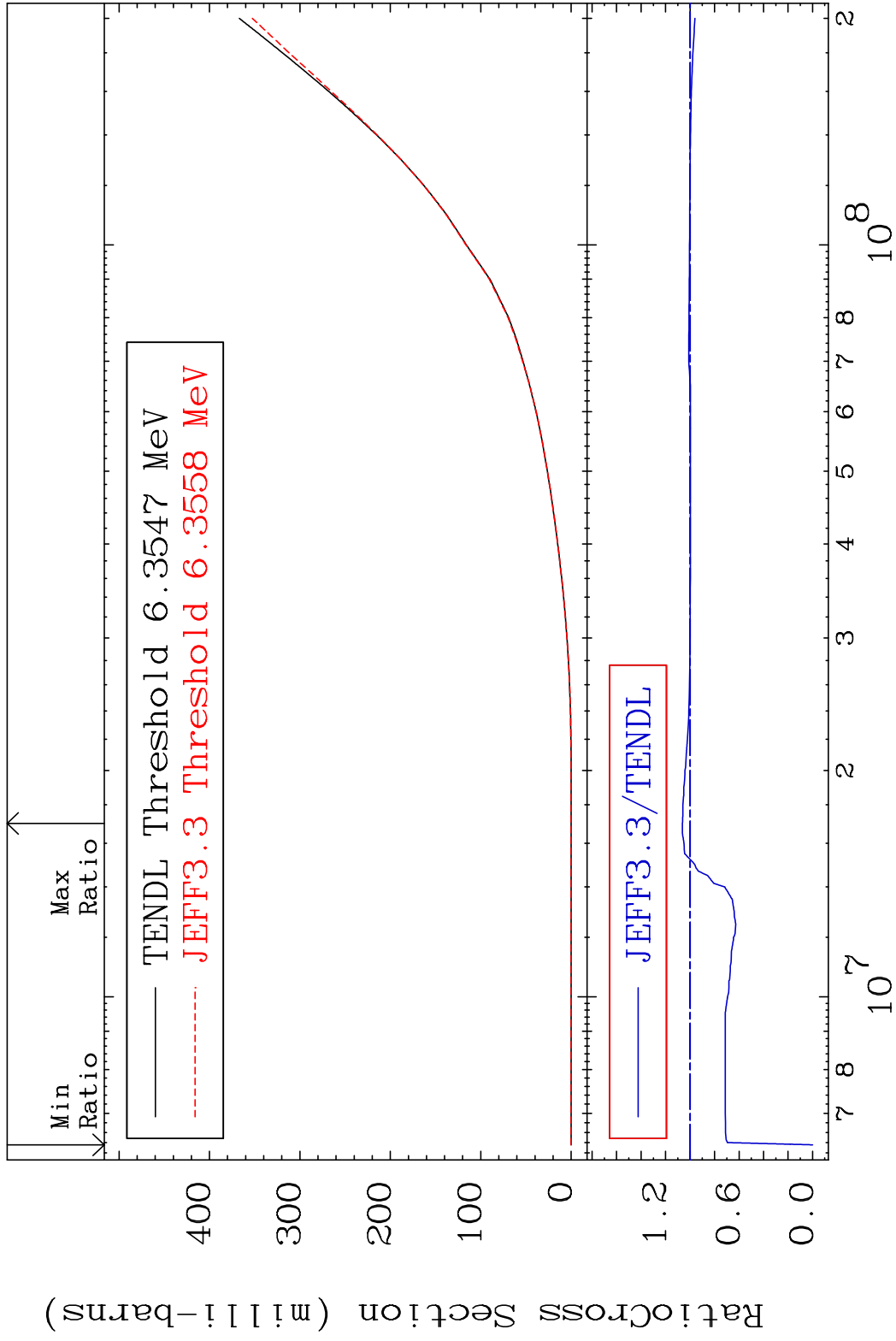
44-Ru-98

MAT 4431

He-3 Production

44-Ru-98

Cross Section -100.0 To 6.293 %



64

Incident Energy (eV)

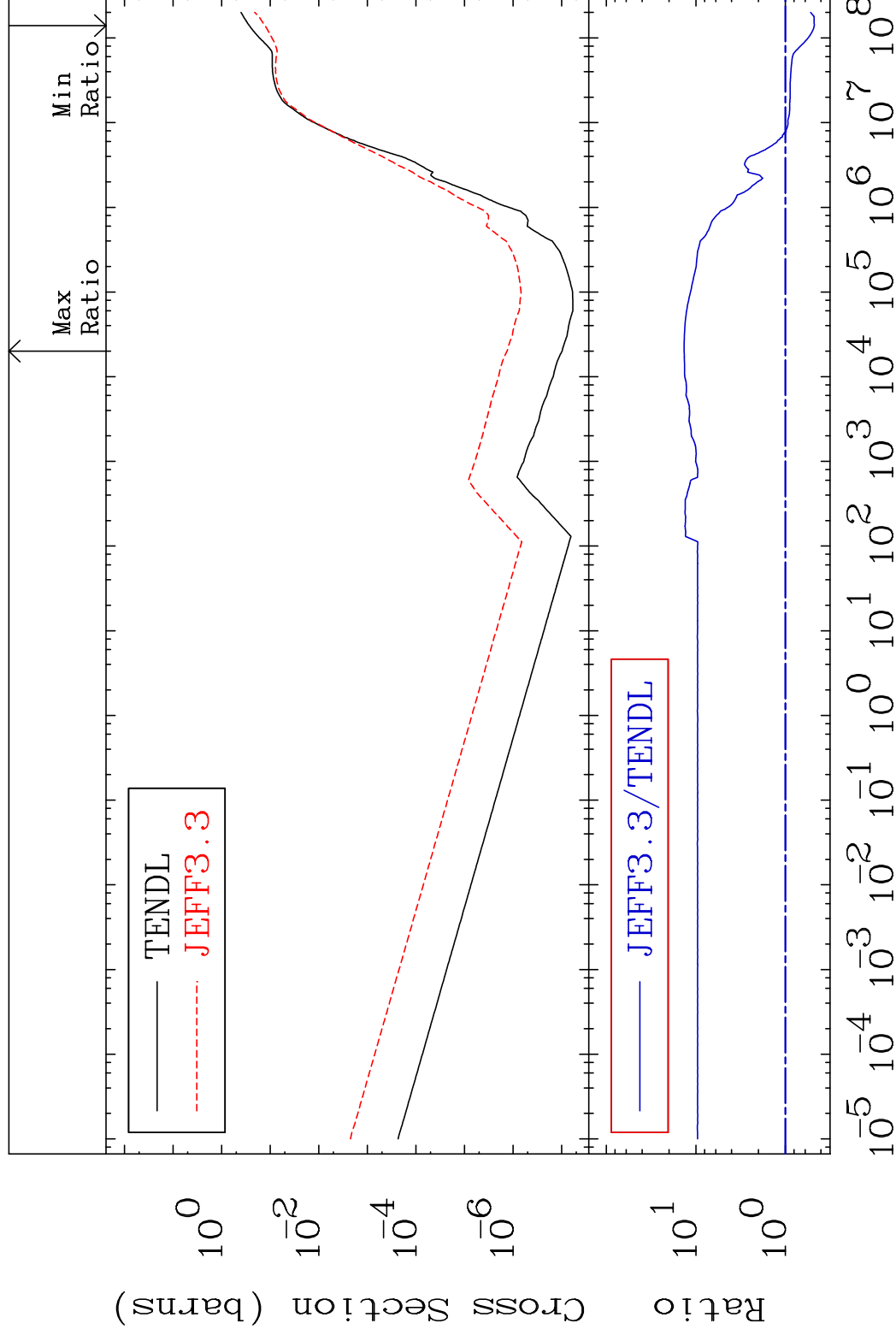
44-Ru-98

MAT 4431

He-4 Production

44-Ru-98

Cross Section -52.50 To 1256. %

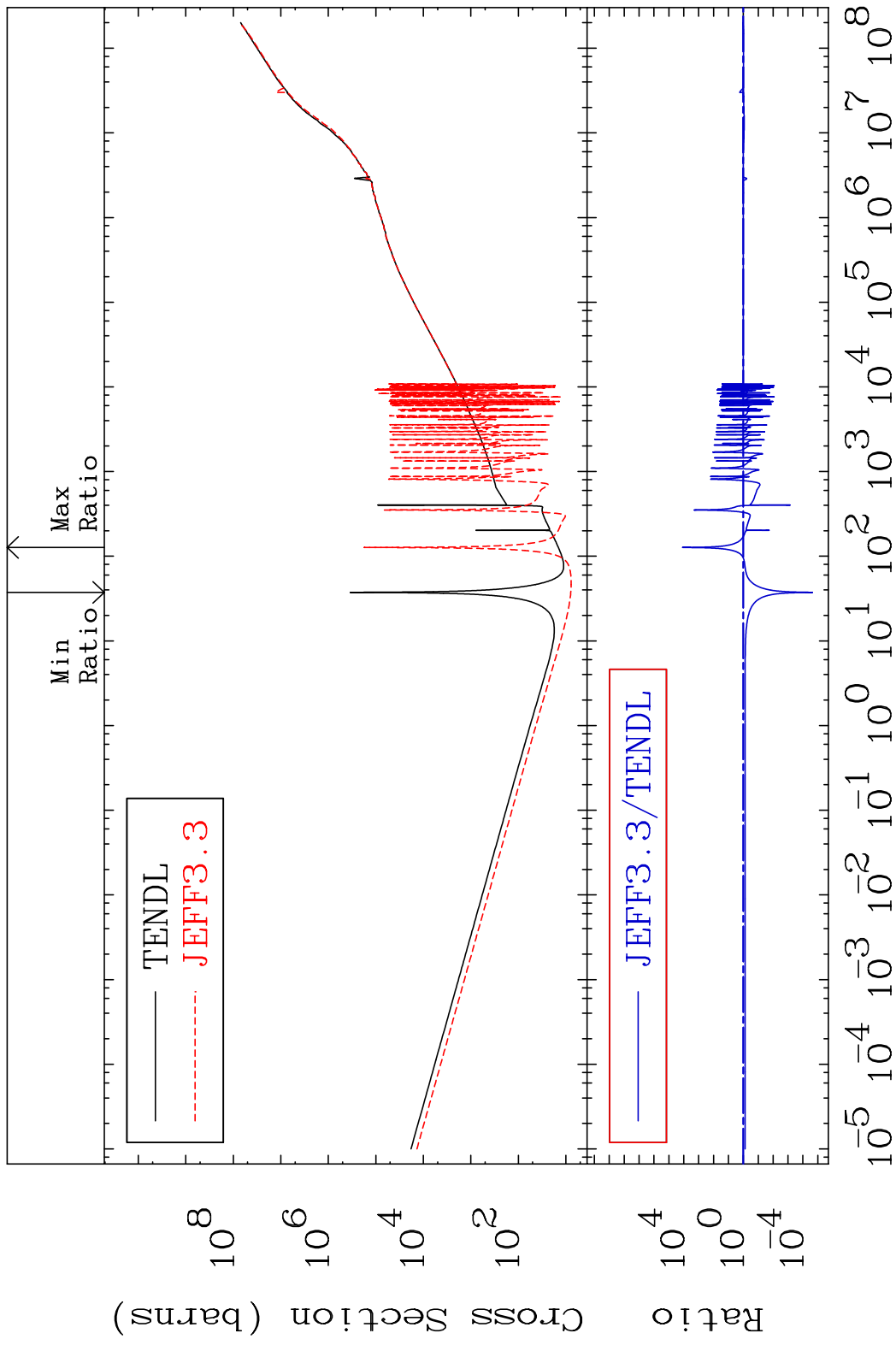


65

Incident Energy (eV)

44-Ru-98

MAT 4431 Kerma total (eV-barns) 44-Ru-98
 Cross Section -100.0 To 9999. %

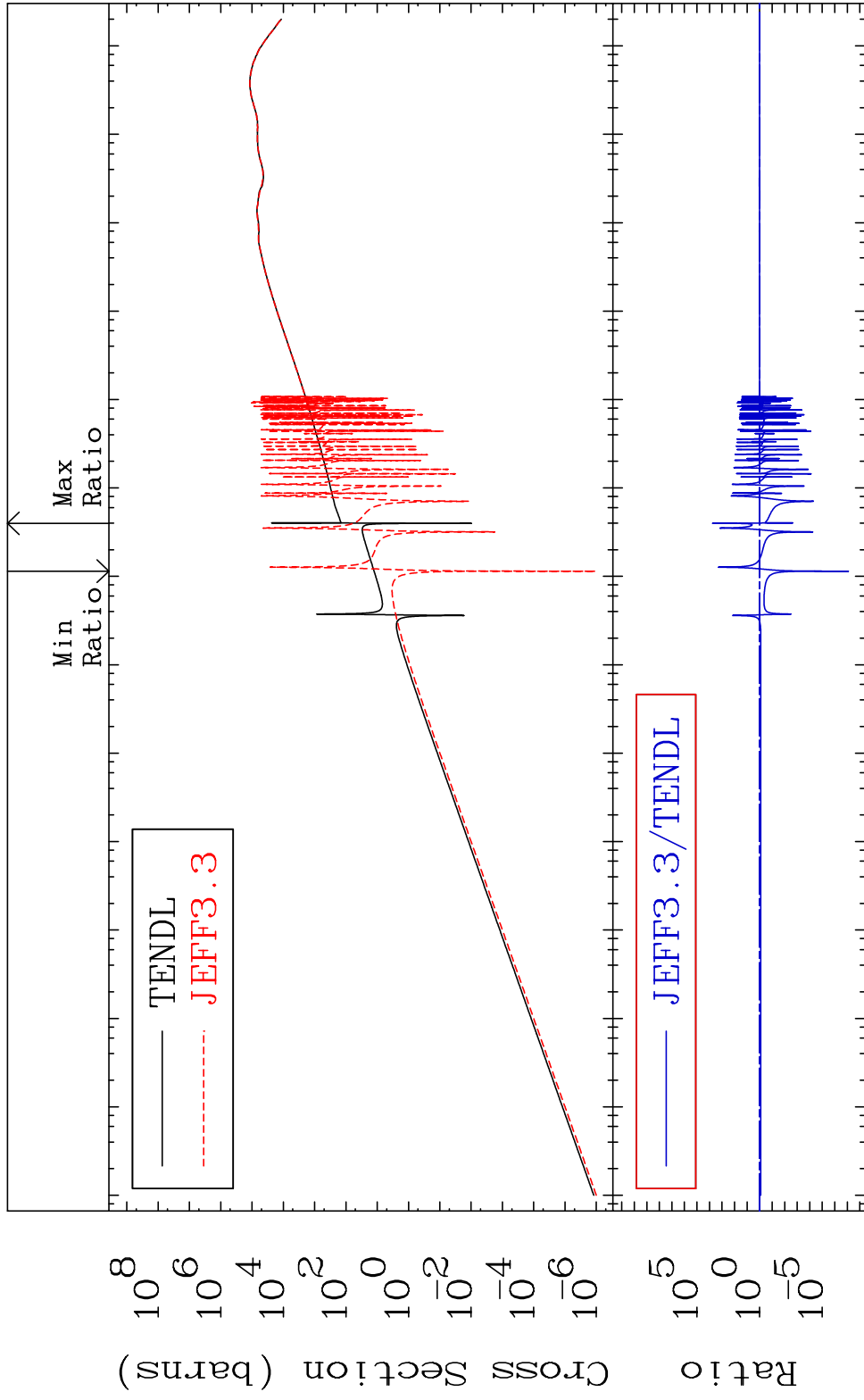


MAT 4431

Kerma elastic

44-Ru-98

Cross Section -100.0 To 9999. %



Cross Section (barns)
10⁸
10⁶
10⁴
10²
10⁰
10⁻²
10⁻⁴
10⁻⁶
10⁻⁸

Ratio
10⁵
10⁰
10⁻⁵

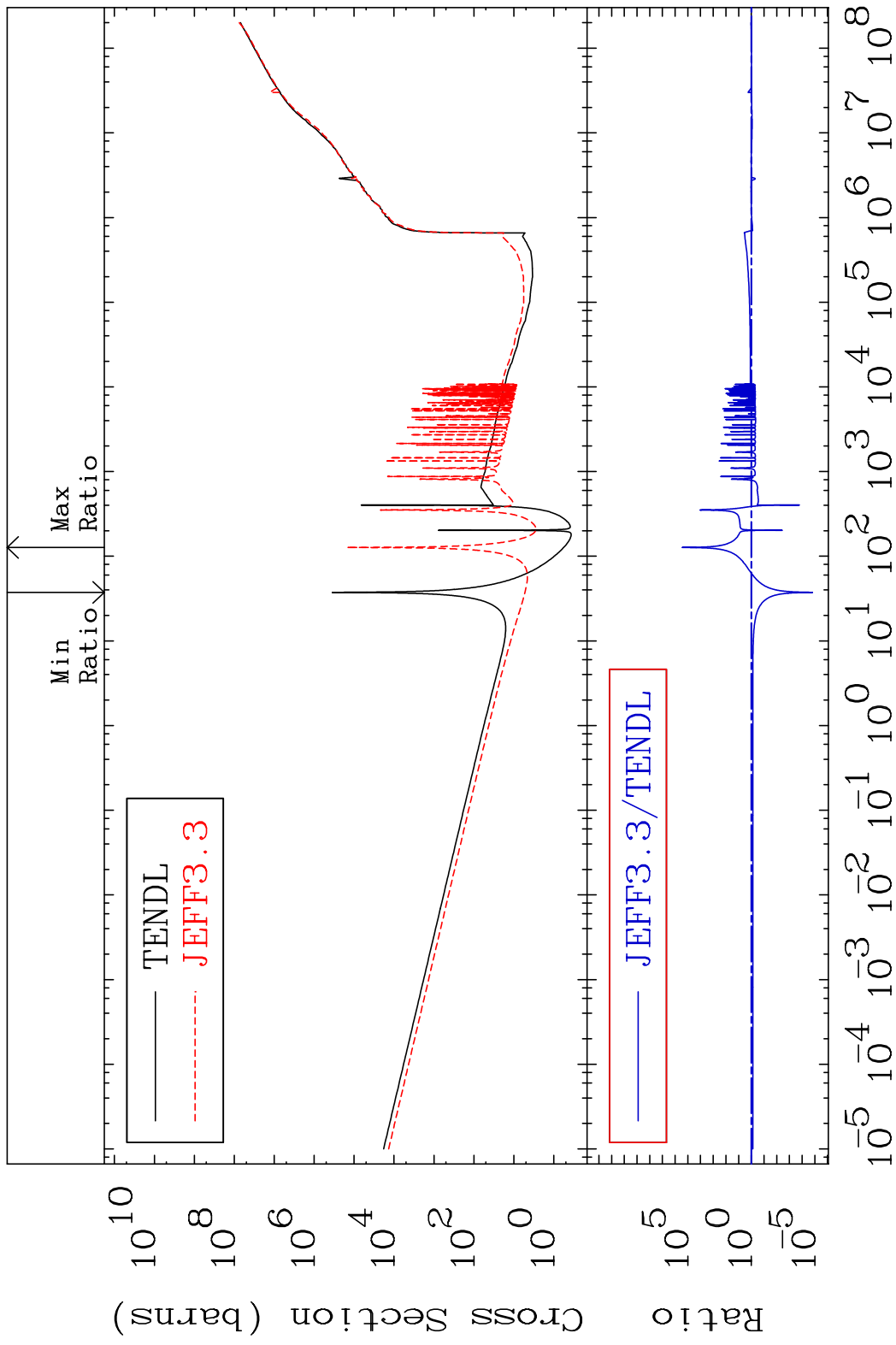
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

67

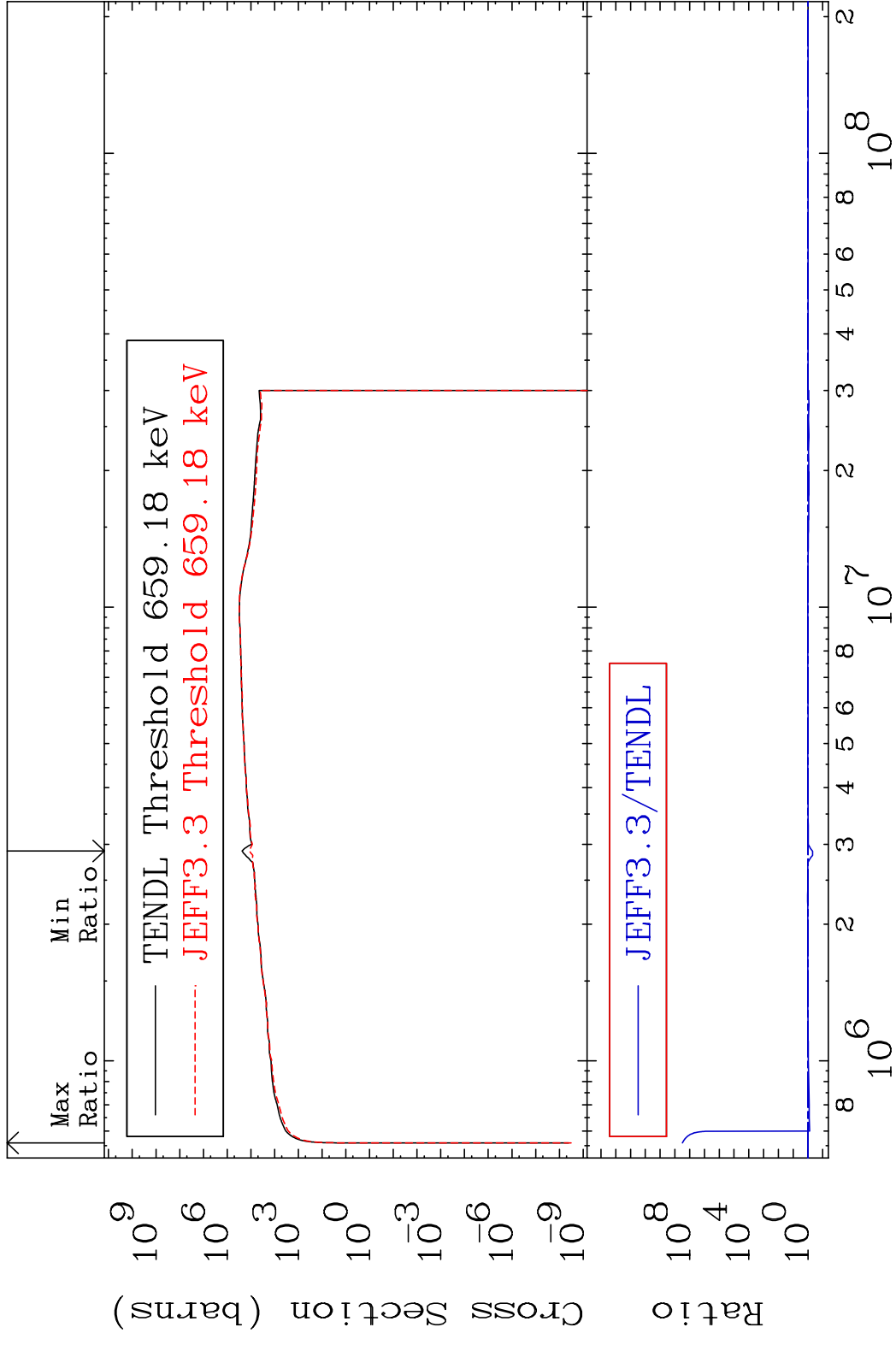
Incident Energy (eV)

44-Ru-98

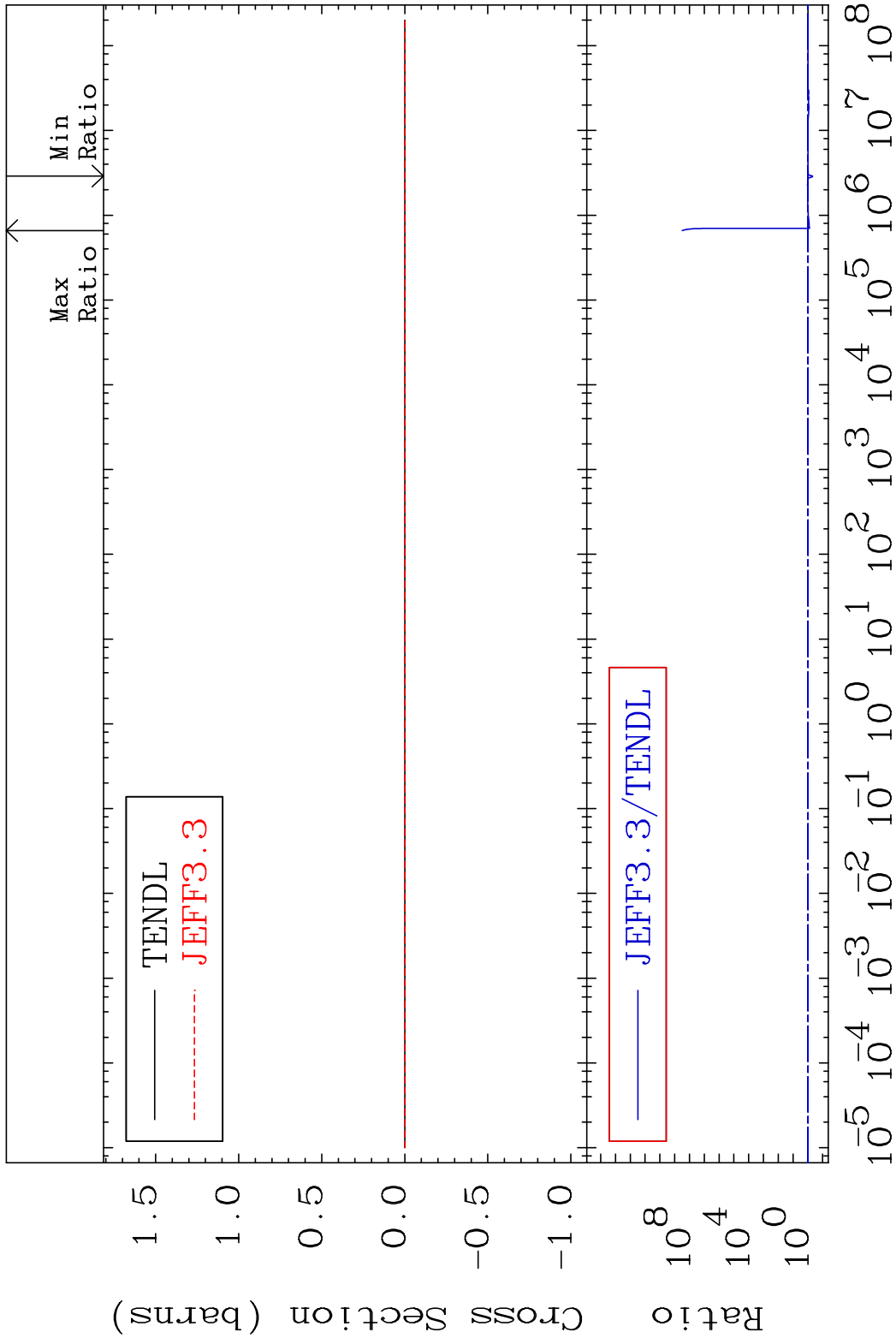
MAT 4431 Kerma non-elastic (all but mt2) 44-Ru-98
 Cross Section -100.0 To 9999. %



MAT 4431 Kerma inelastic (mt51-91) 44-Ru-98
 Cross Section -51.15 To 9999. %



MAT 4431 Kerma fission (mt18 or mt19-20-21-38) 44-Ru-98
 Cross Section -51.15 To 9999. %

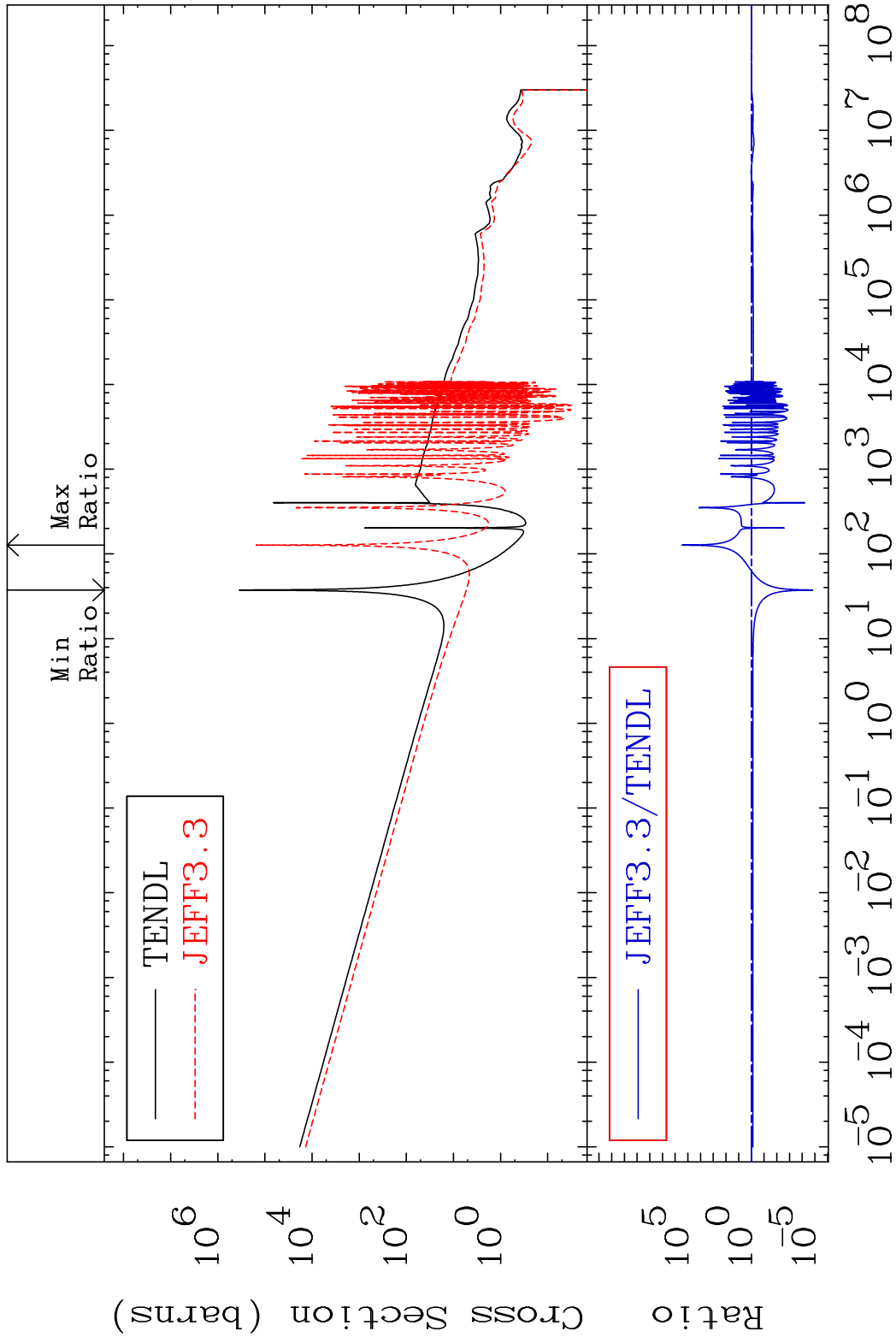


70 Incident Energy (eV) 44-Ru-98

MAT 4431

Kerma capture (mt102) 44-Ru-98

Cross Section -100.0 To 9999. %

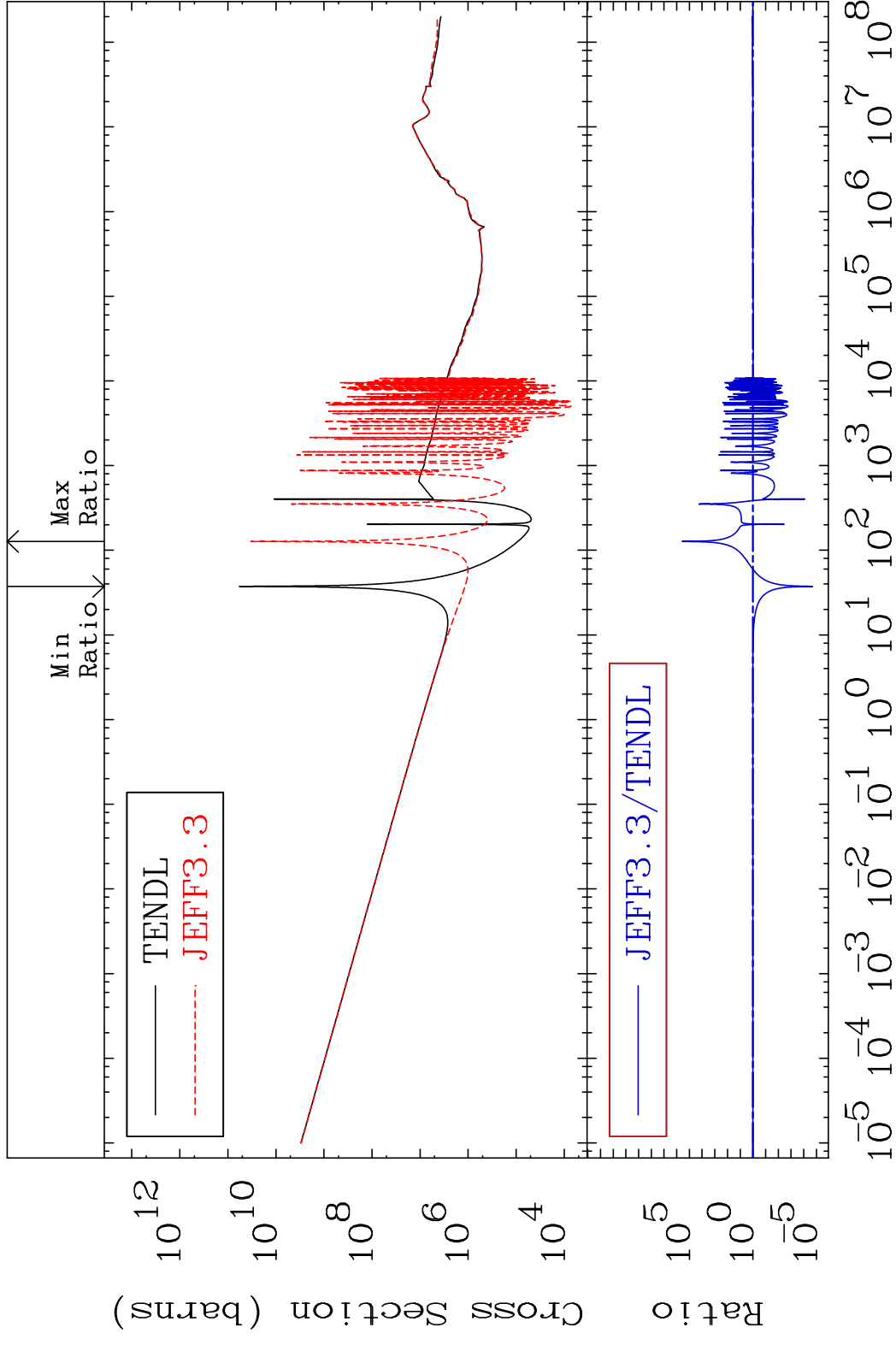


71

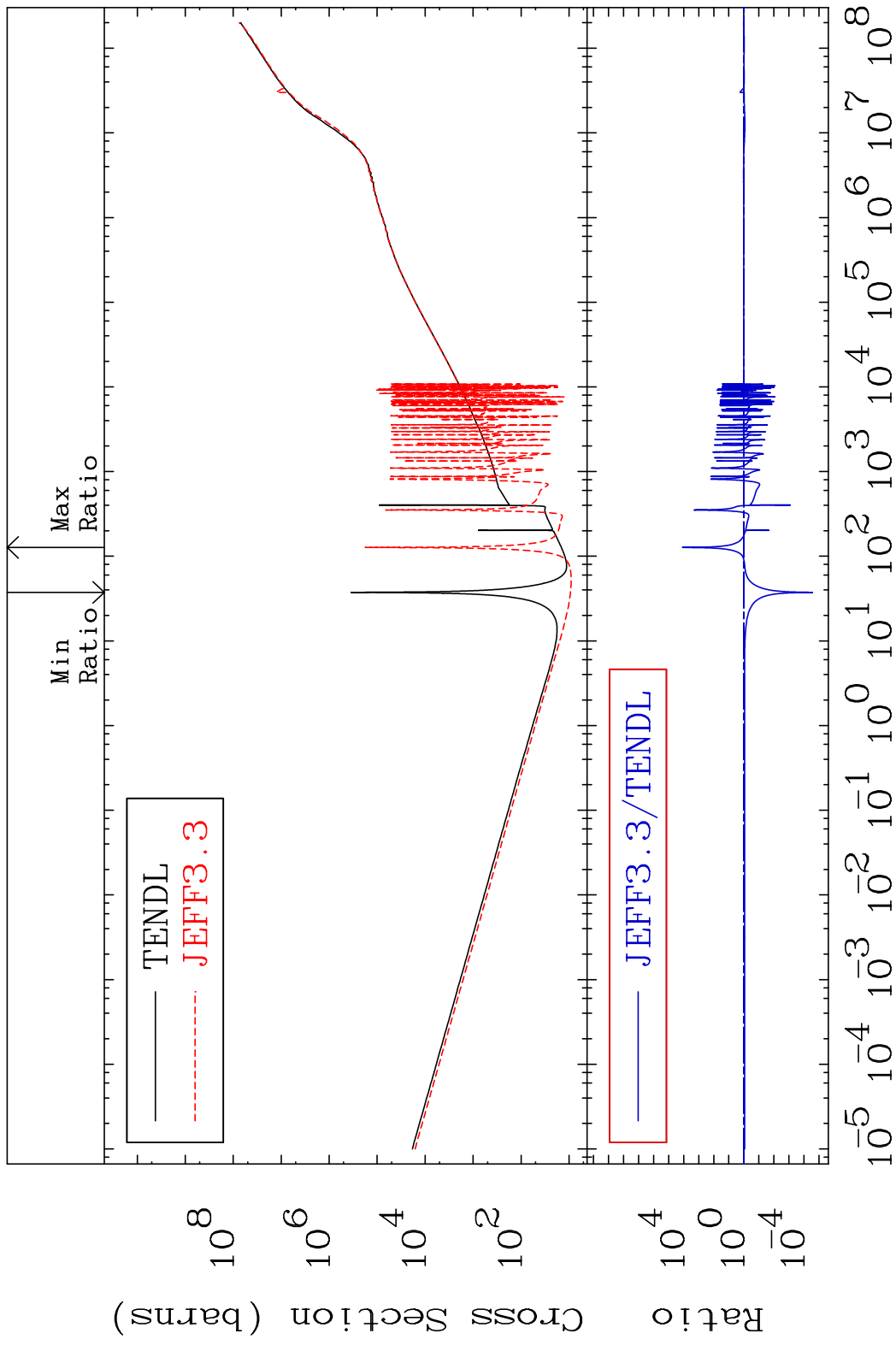
Incident Energy (eV)

44-Ru-98

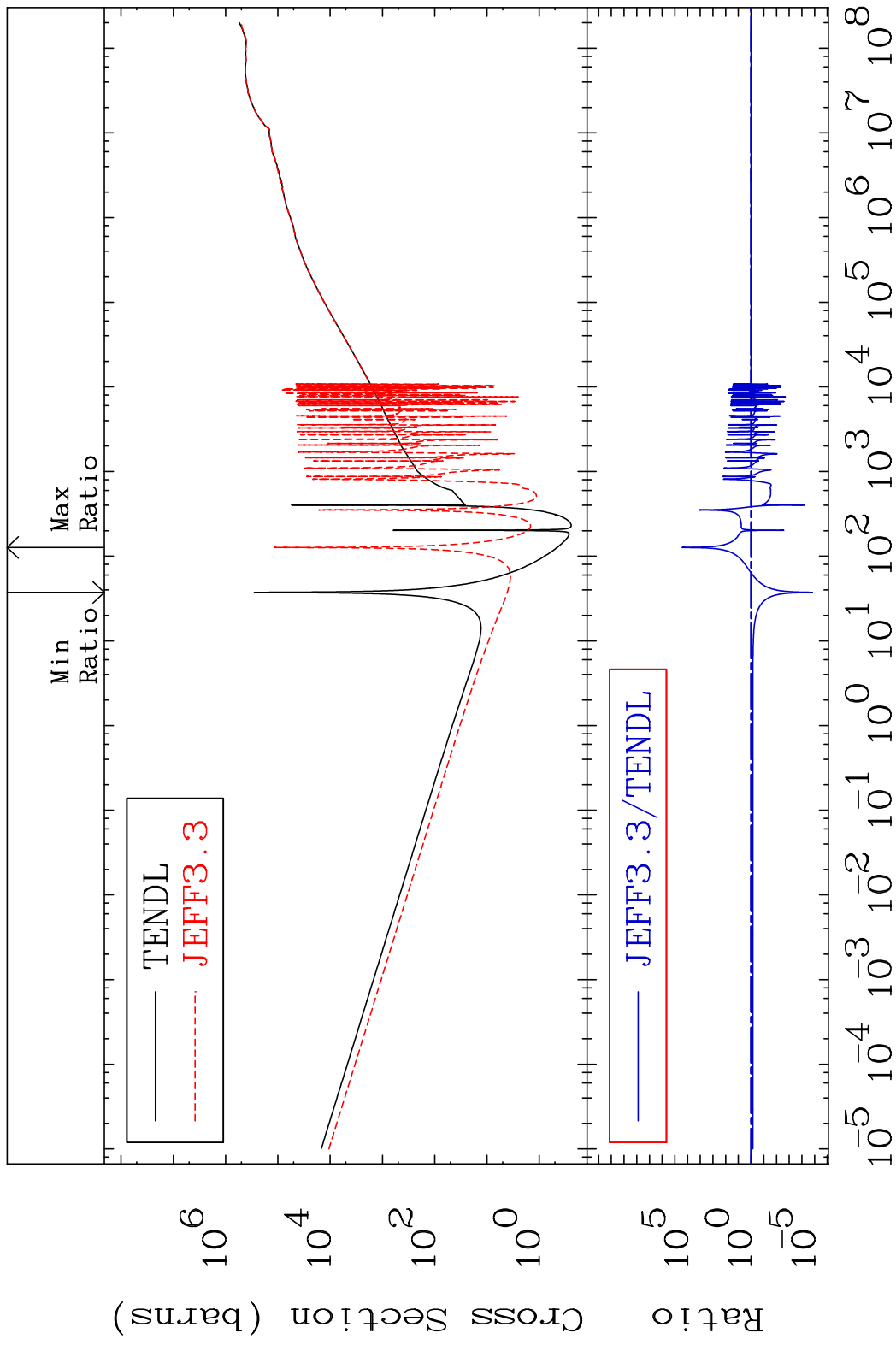
MAT 4431 Total photon (eV-barns) 44-Ru-98
 Cross Section -100.0 To 9999. %



MAT 4431 Total kinematic kerma (high limit) 44-Ru-98
 Cross Section -100.0 To 9999. %



MAT 4431 Dpa total (eV-barns) 44-Ru-98
 Cross Section -100.0 To 9999. %



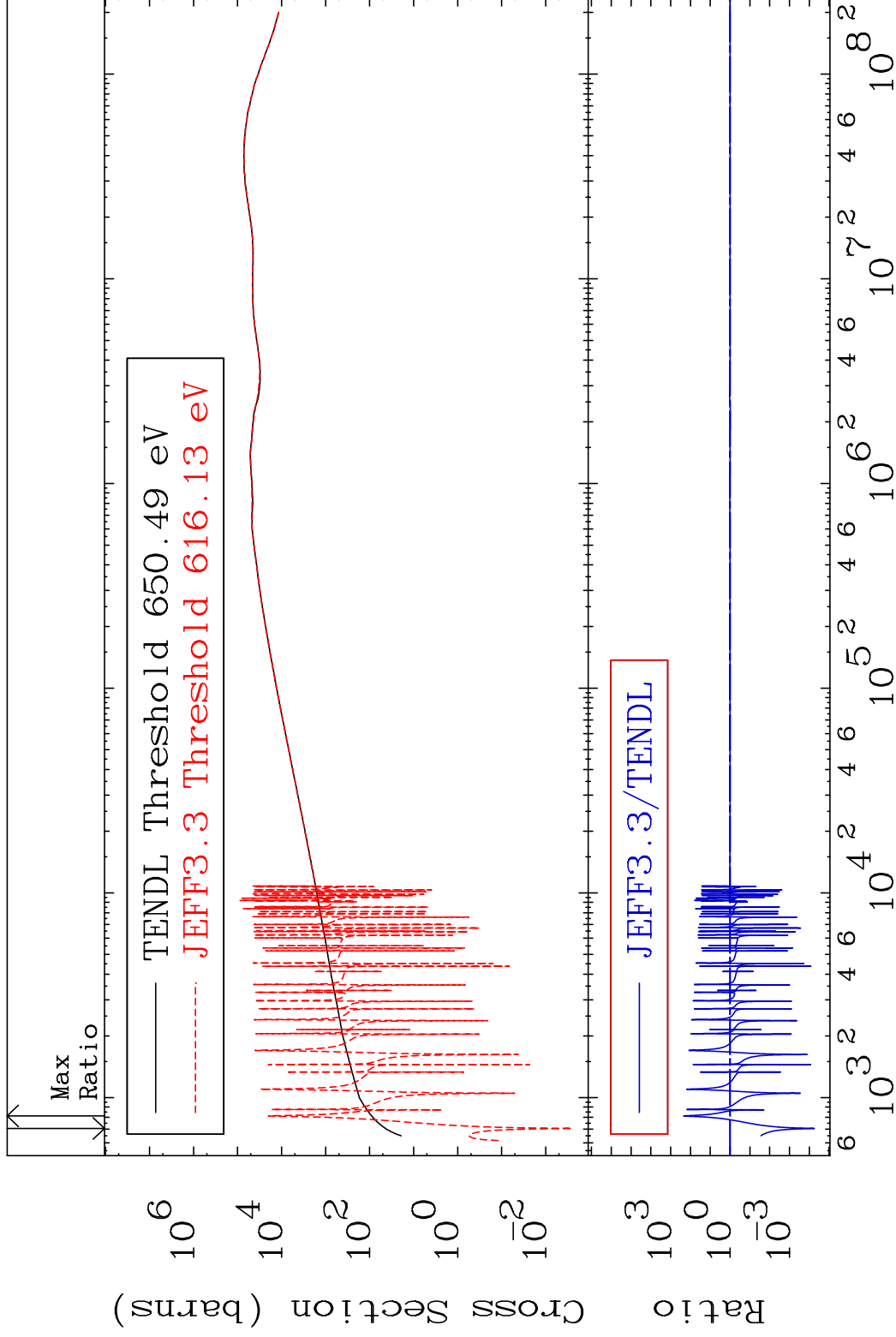
74 Incident Energy (eV) 44-Ru-98

MAT 4431

Dpa elastic (mt2)

44-Ru-98

Cross Section -99.99 To 9999. %



75

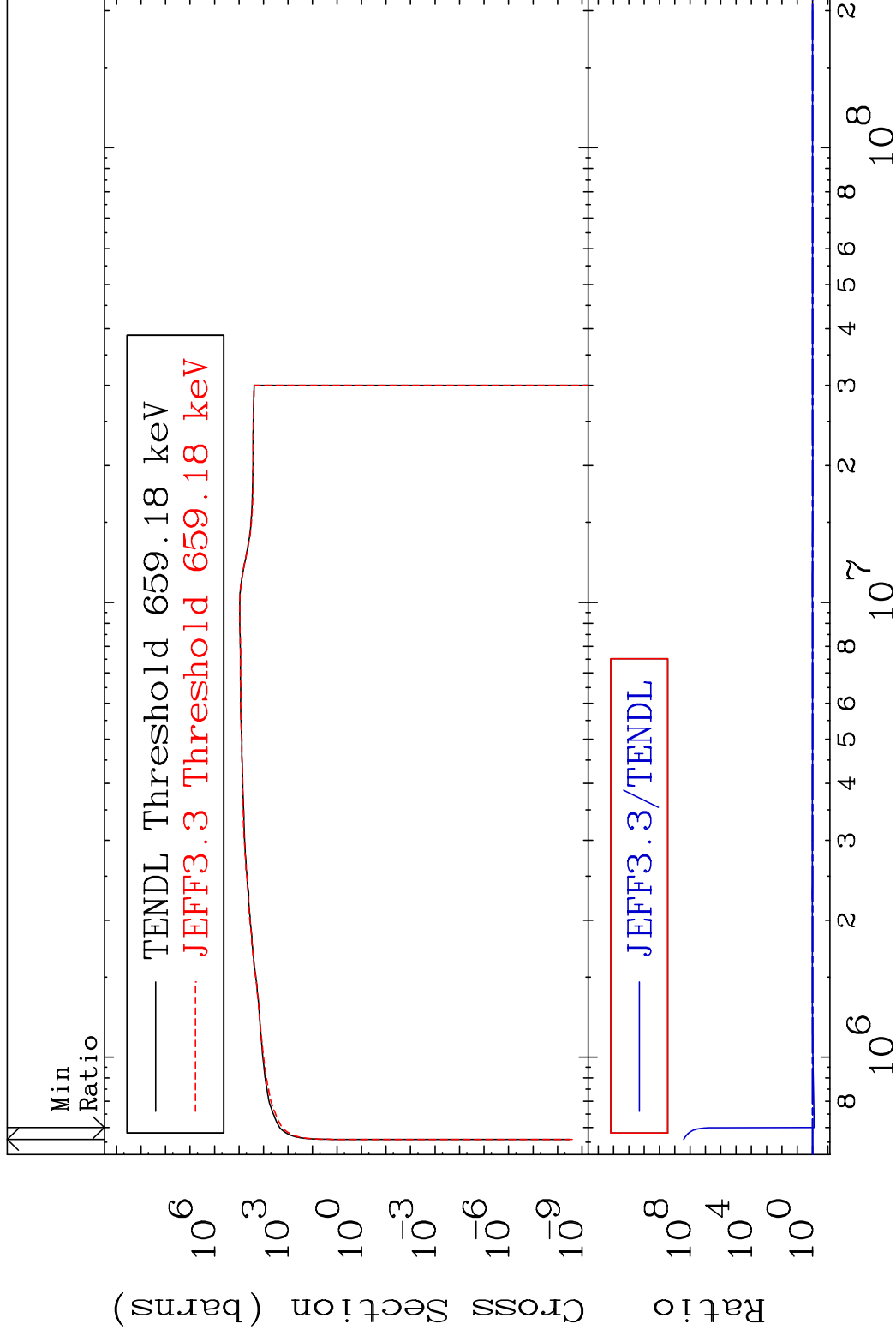
Incident Energy (eV)

44-Ru-98

MAT 4431

Dpa inelastic (mt51-91) 44-Ru-98

Cross Section -21.72 To 9999. %

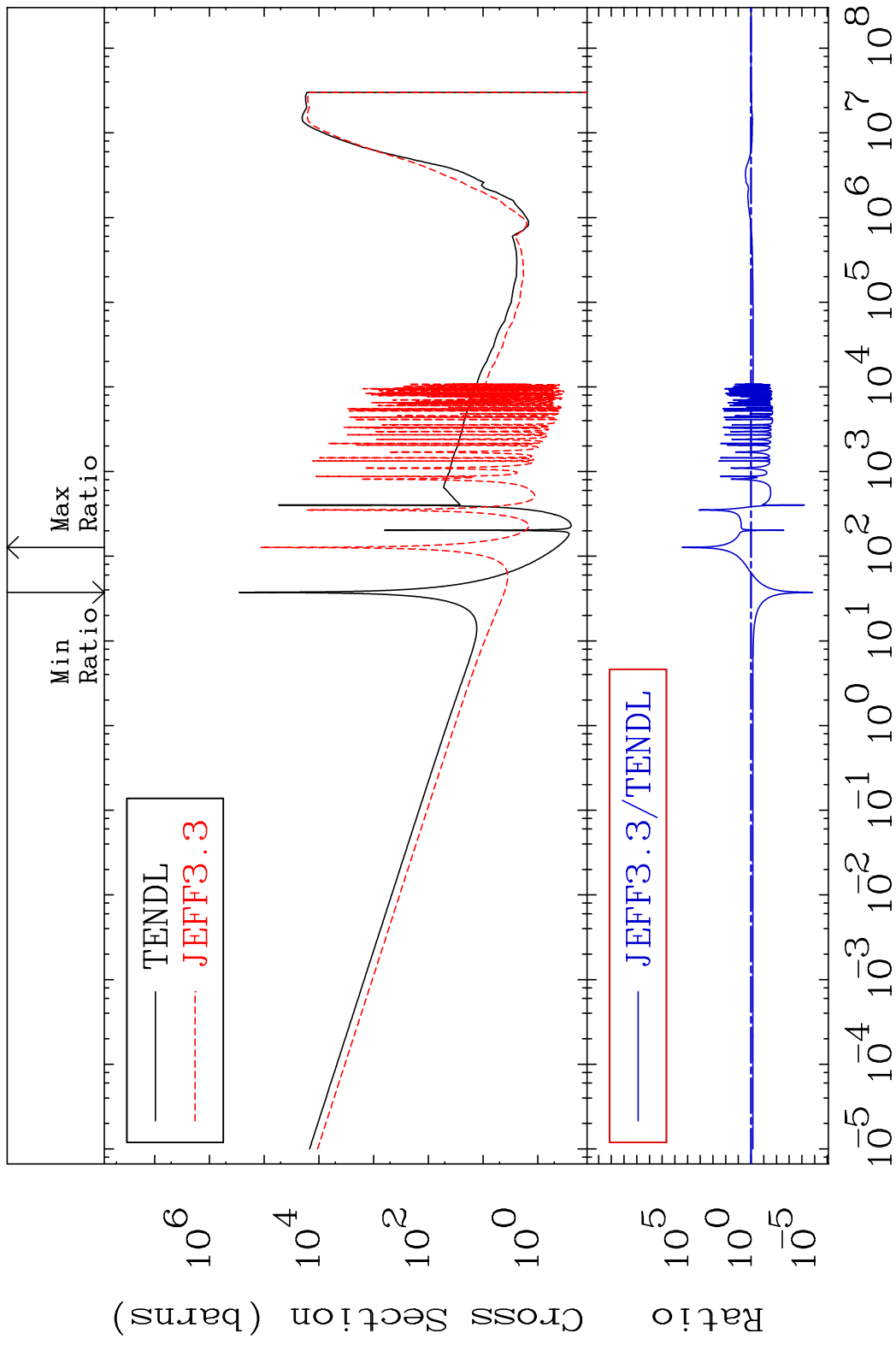


76

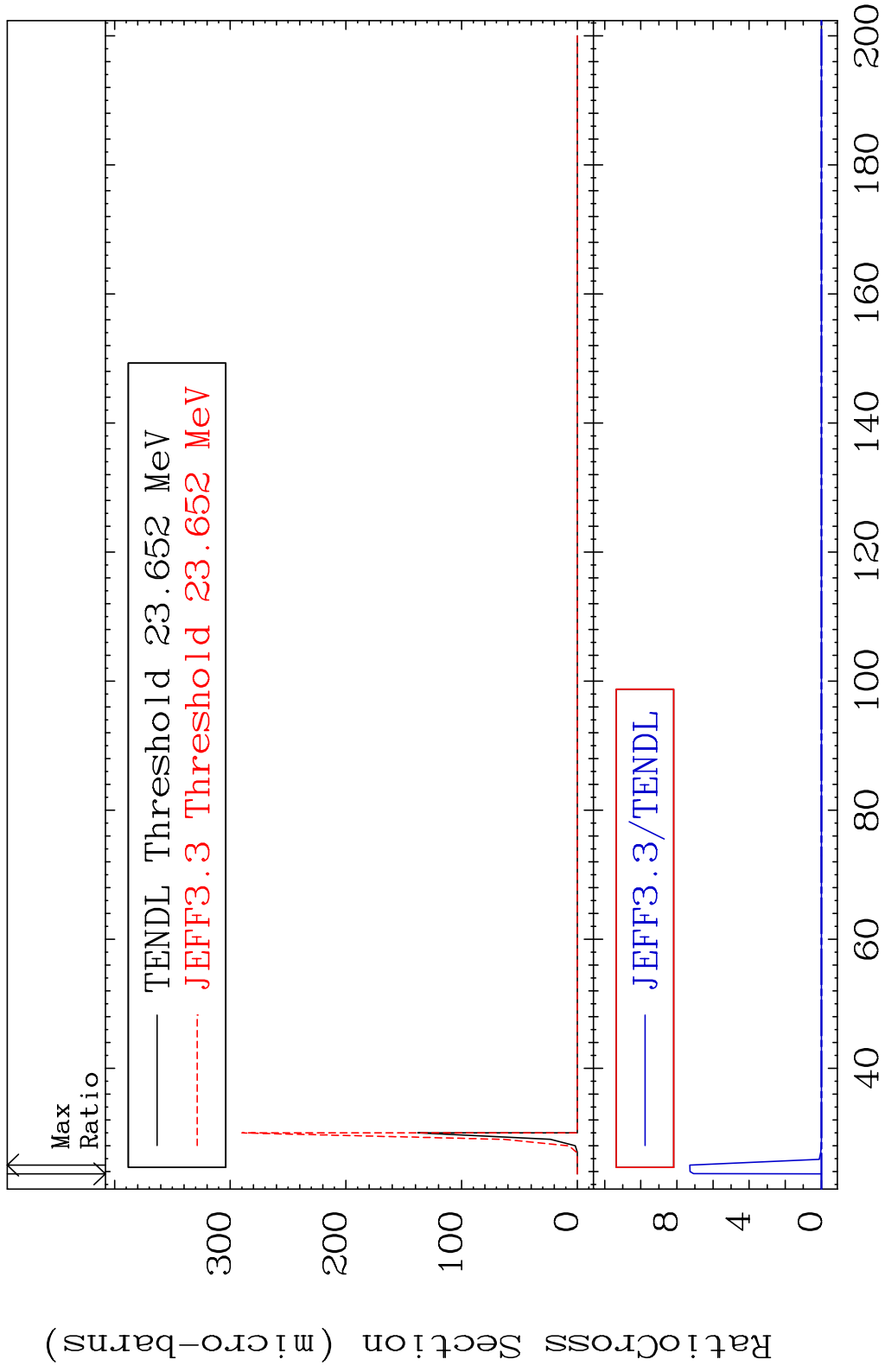
Incident Energy (eV)

44-Ru-98

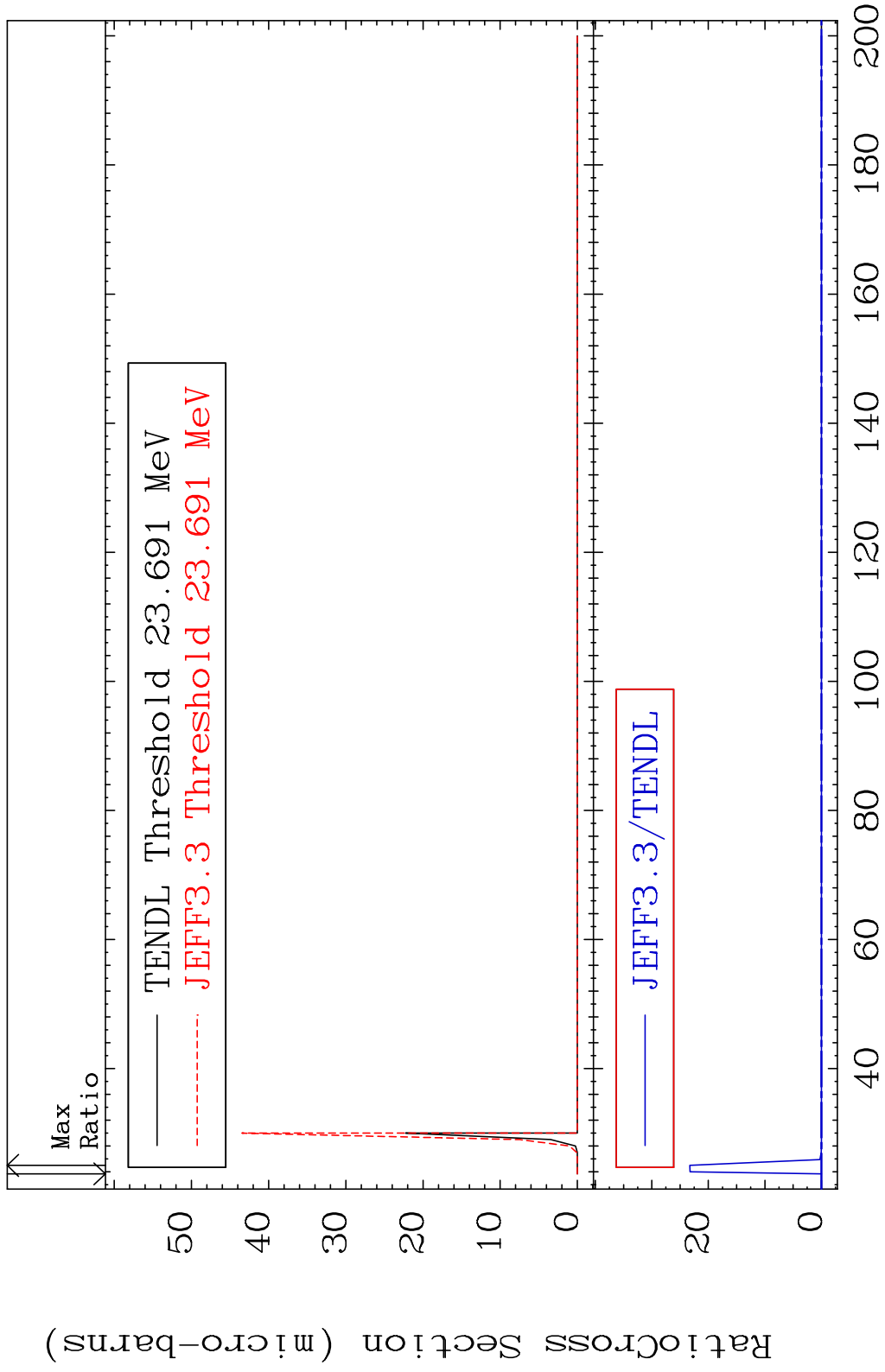
MAT 4431 Dpa disappearance (mt102 -120) 44-Ru-98
 Cross Section -100.0 To 9999. %



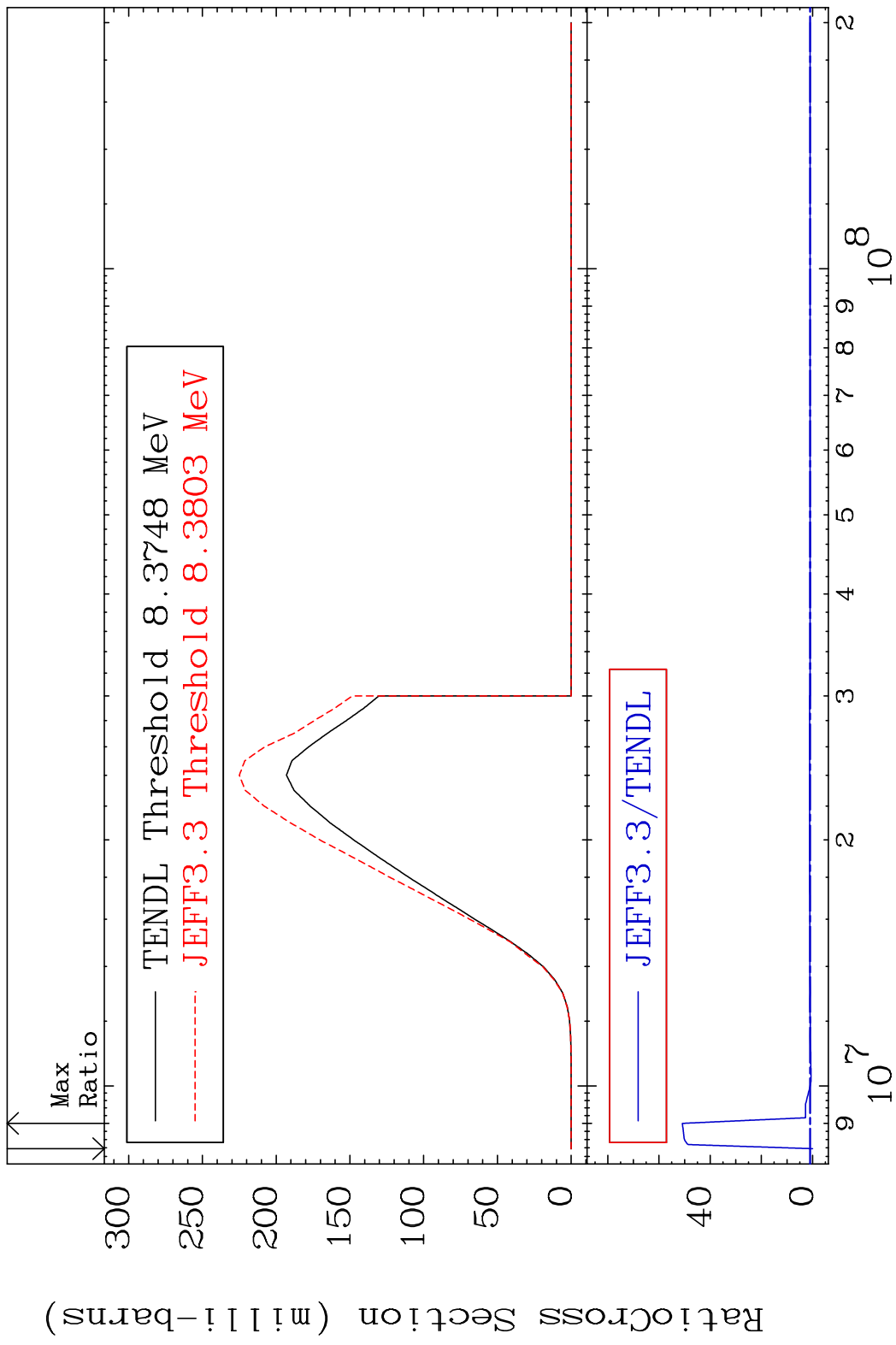
MAT 4431 (n,2n) d:43-Tc-95g 44-Ru-98
 Radionuclide Production Cross Section Ratio 9999. %



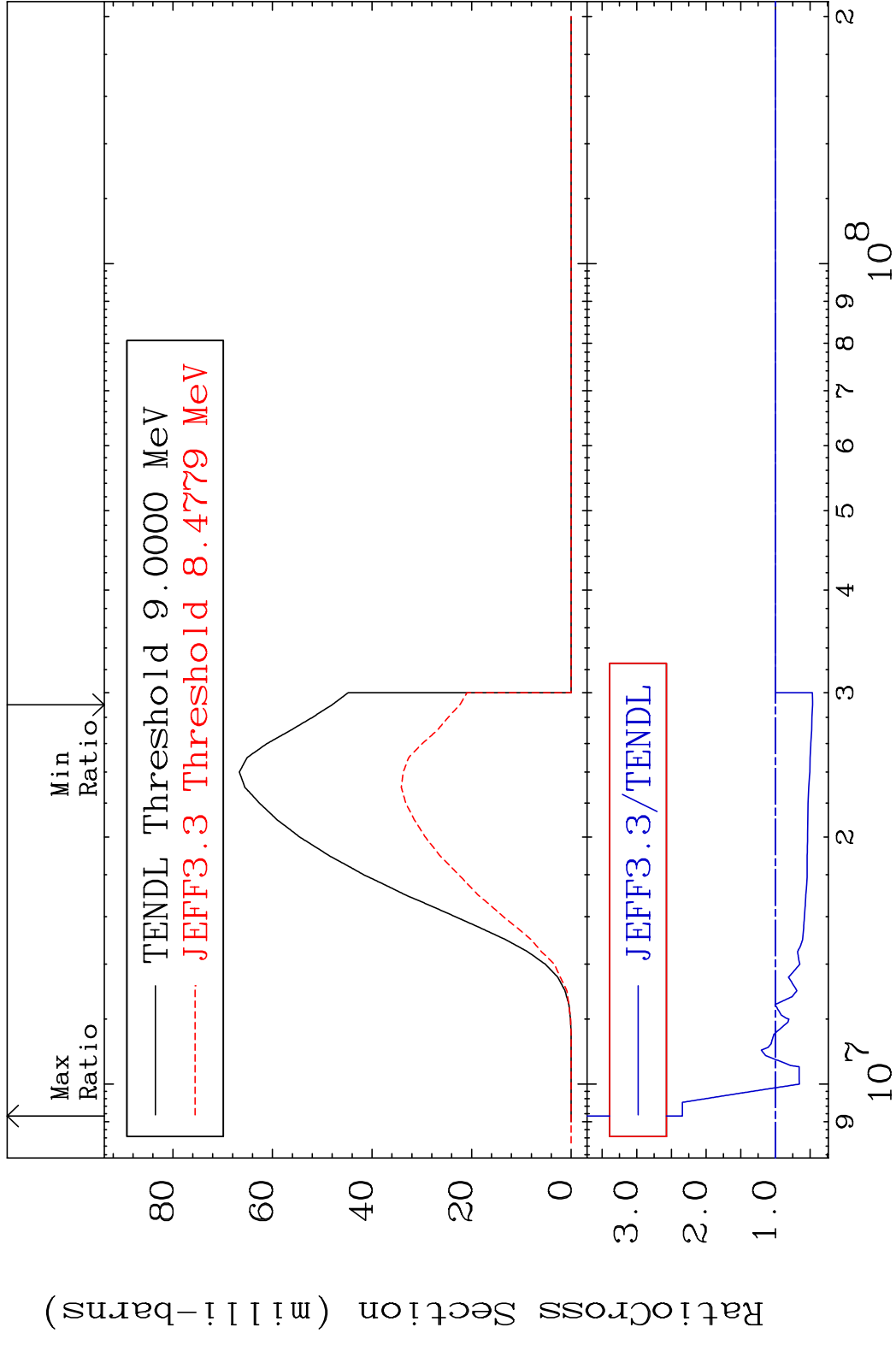
MAT 4431 (n,2n) d:43-Tc-95m1 44-Ru-98
 Radionuclide Production Cross Section Ratio 9999. %

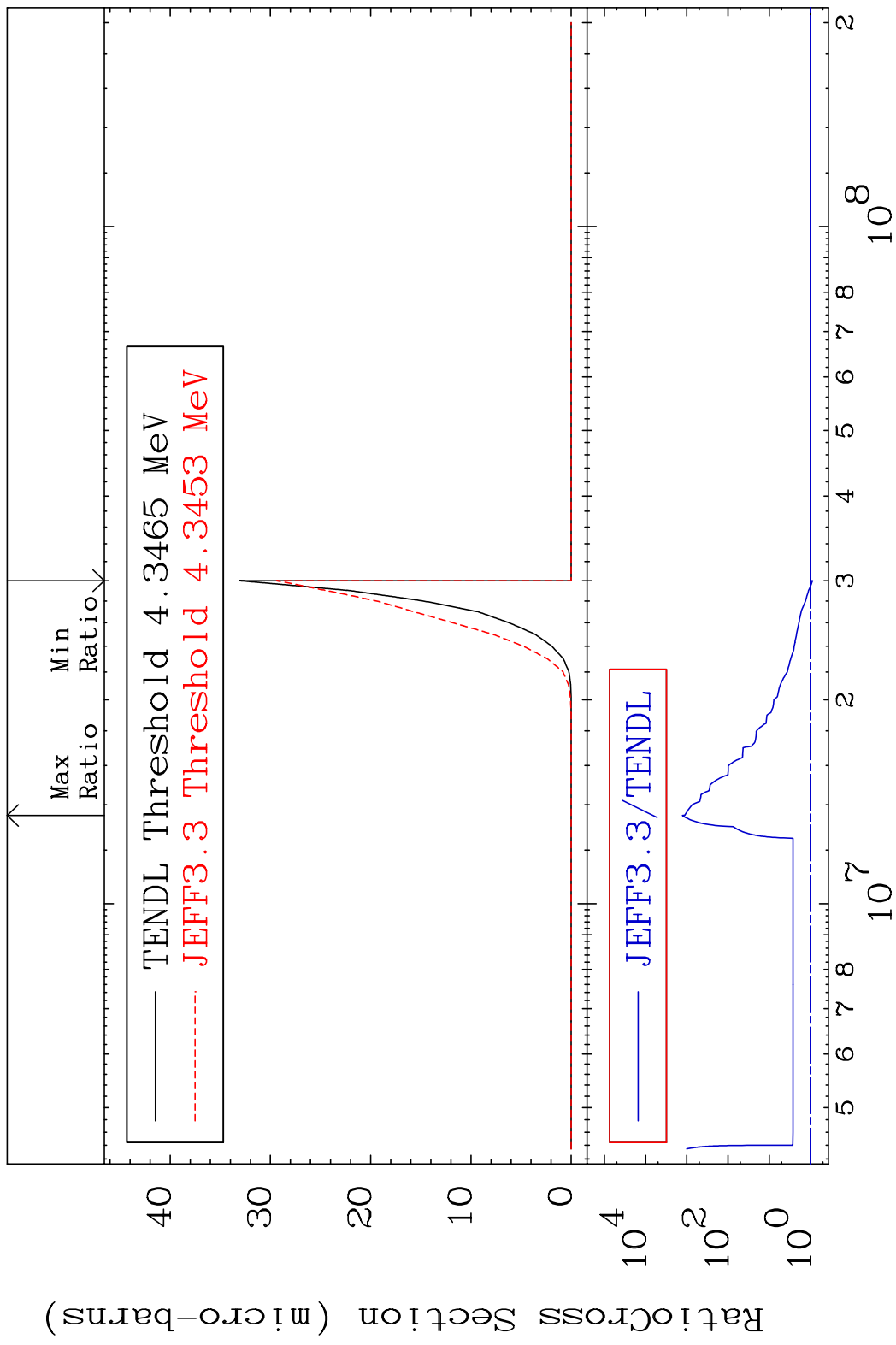


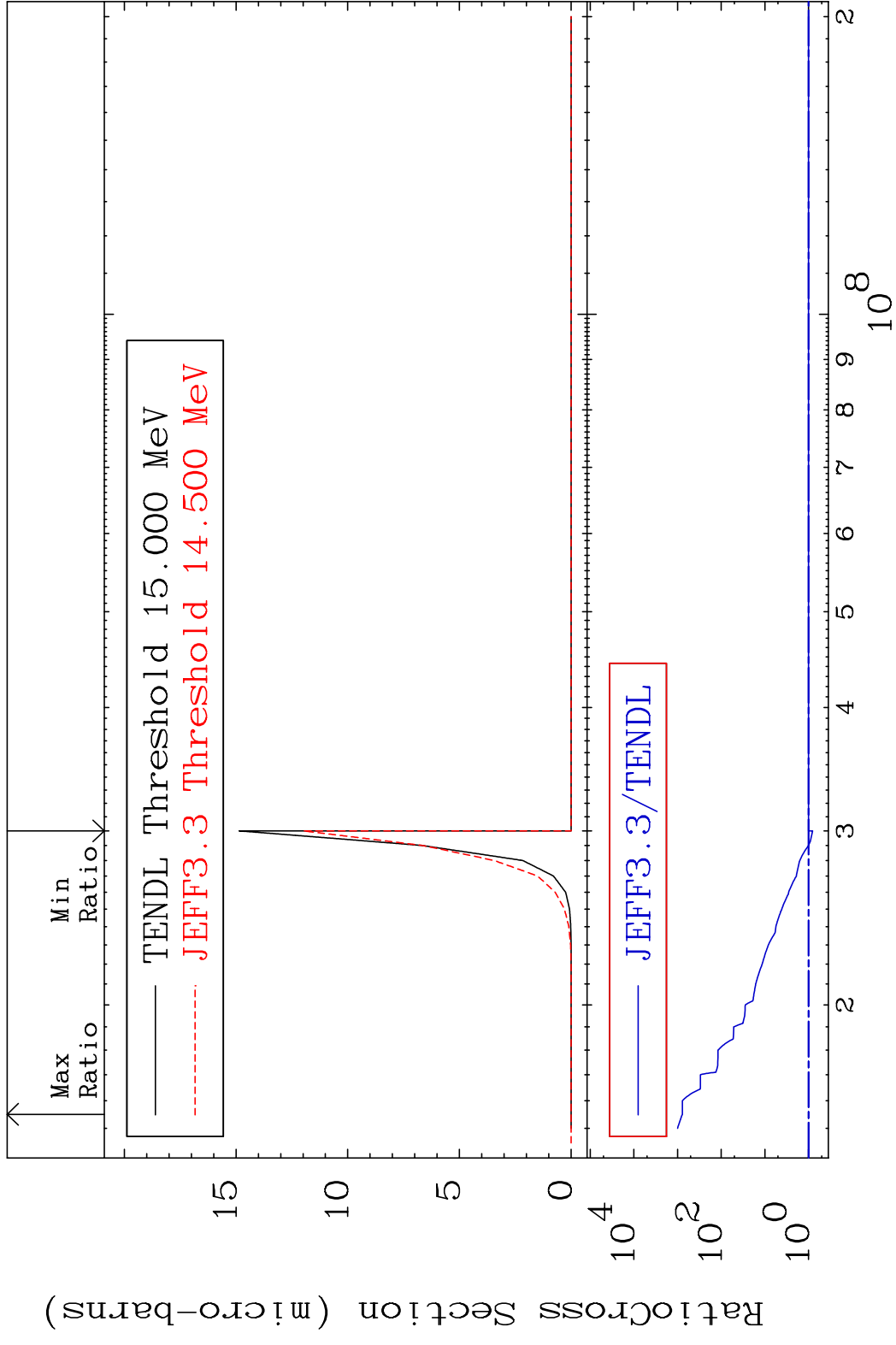
MAT 4431 (n, n') p:43-Tc-97g 44-Ru-98
 Radionuclide Production Cross Section 180.01 dth 4986. %



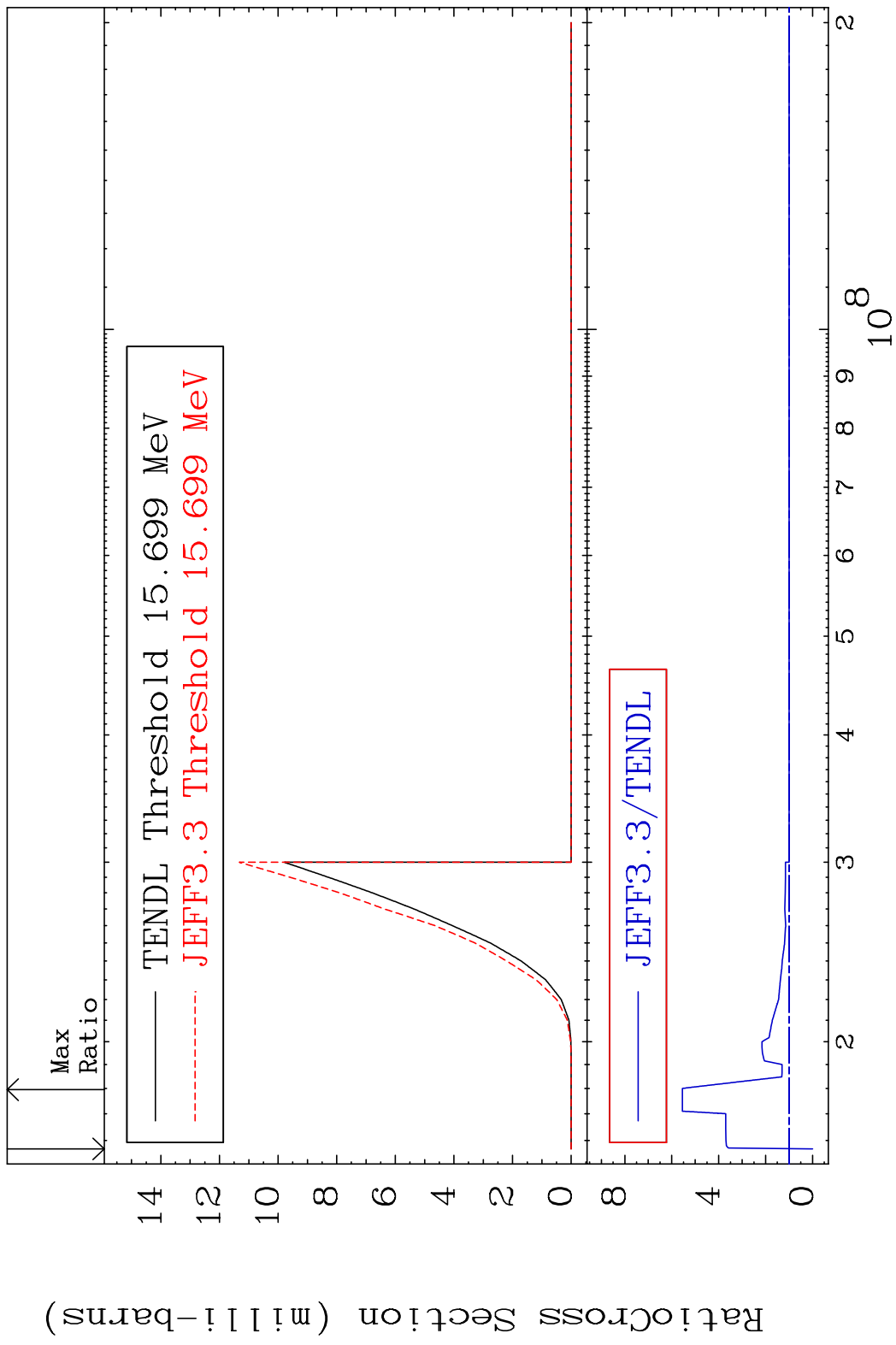
80 Incident Energy (eV) 44-Ru-98



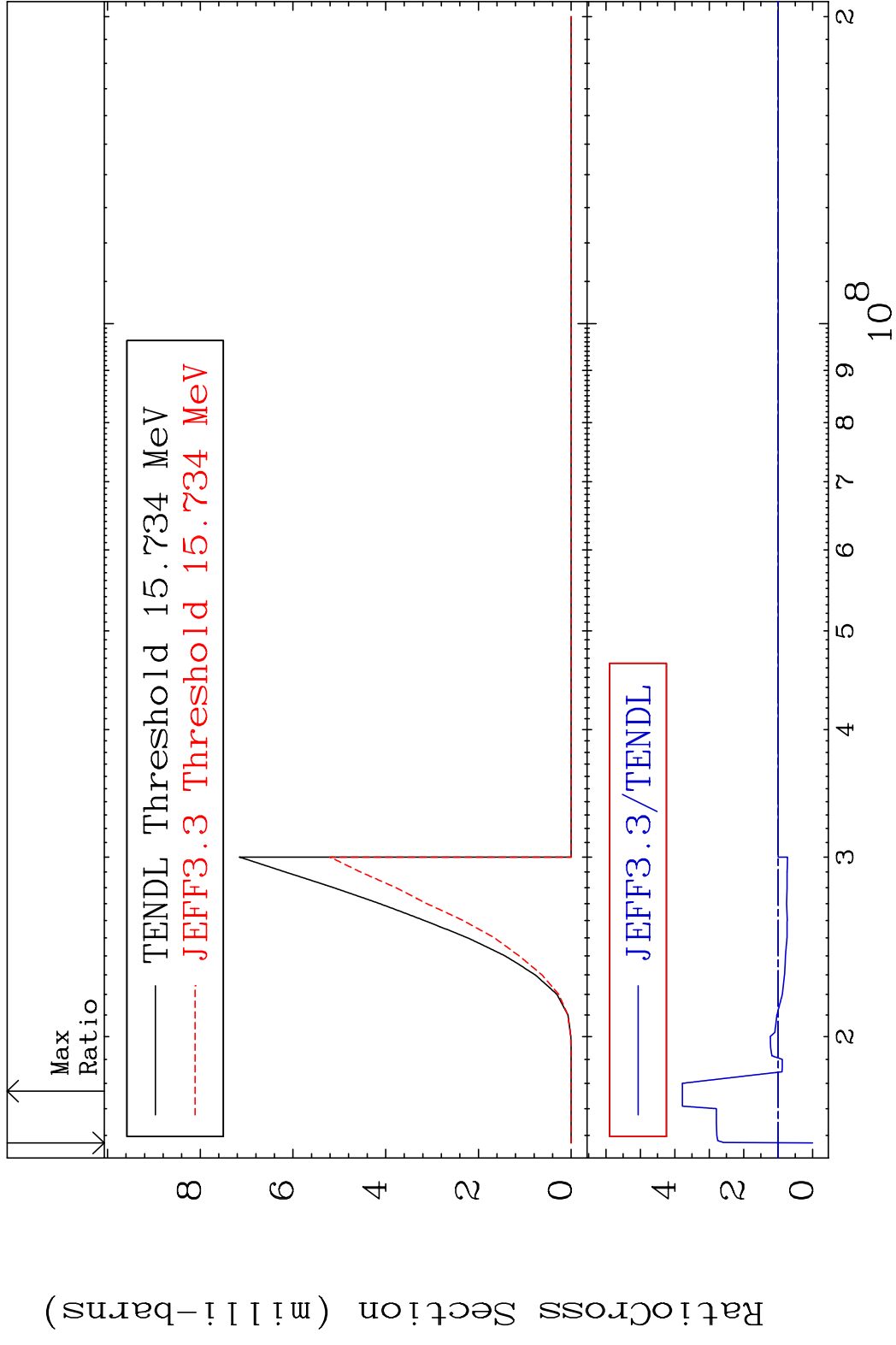




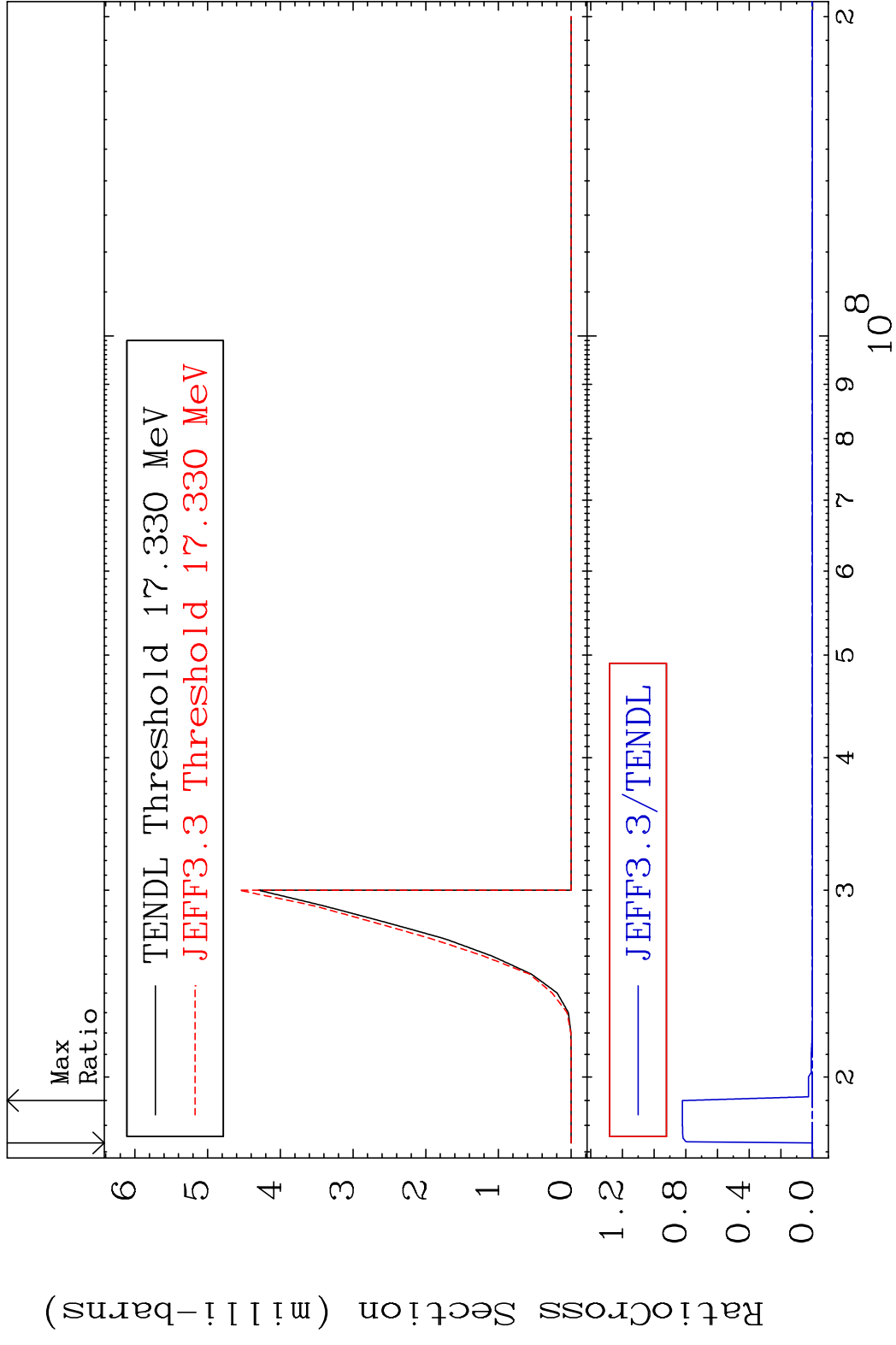
MAT 4431 (n, n') d:43-Tc-96g 44-Ru-98
 Radionuclide Production Cross Section Ratio 454.8 %



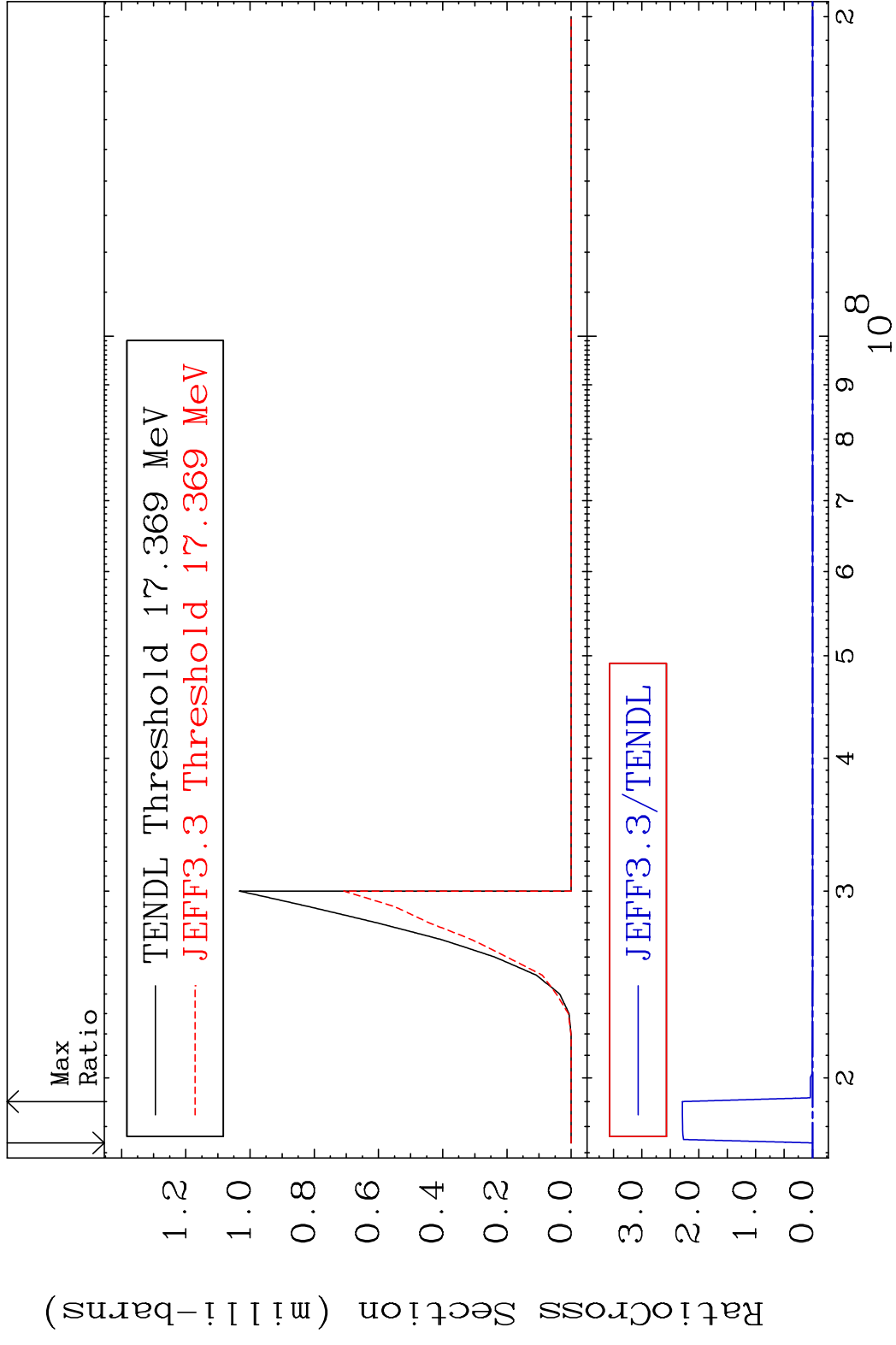
MAT 4431 (n, n') d:43-Tc-96m1 44-Ru-98
 Radionuclide Production Cross Section 180.0 dth 278.1 %



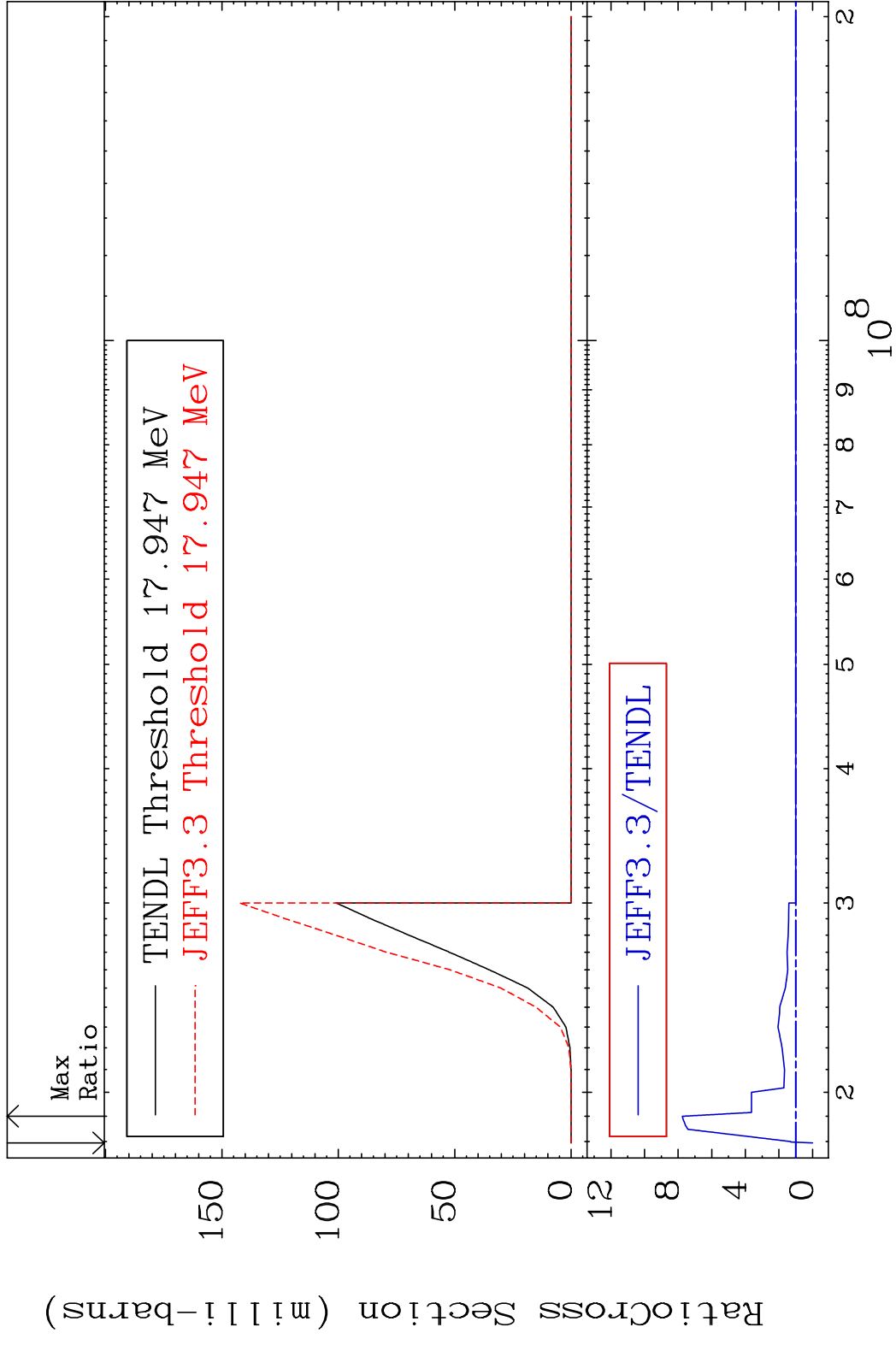
MAT 4431 (n, n') t:43-Tc-95g 44-Ru-98
 Radionuclide Production Cross Section Ratio

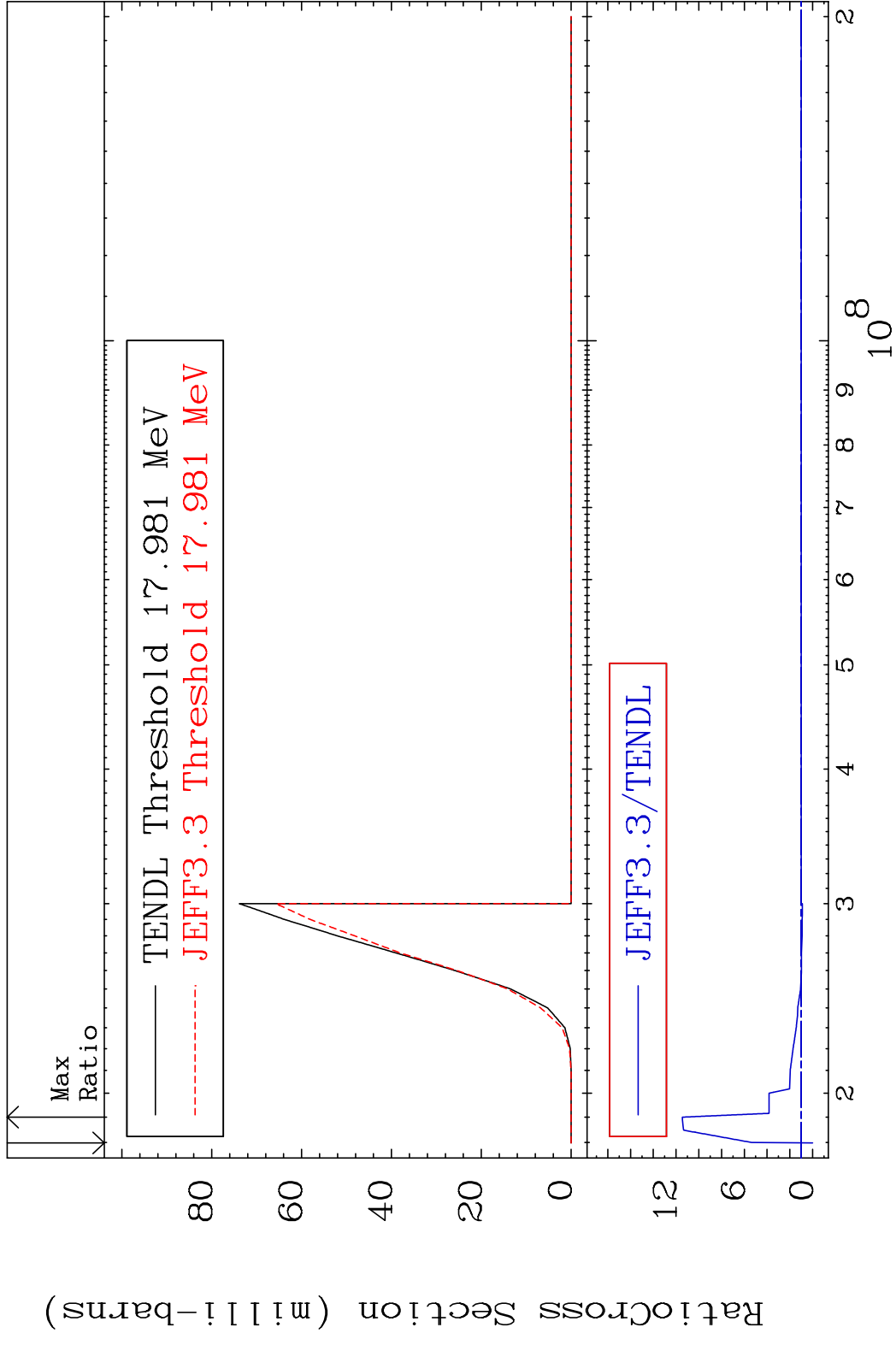


MAT 4431 (n, n') t:43-Tc-95m1 44-Ru-98
 Radionuclide Production Cross Section Ratio 9999. %

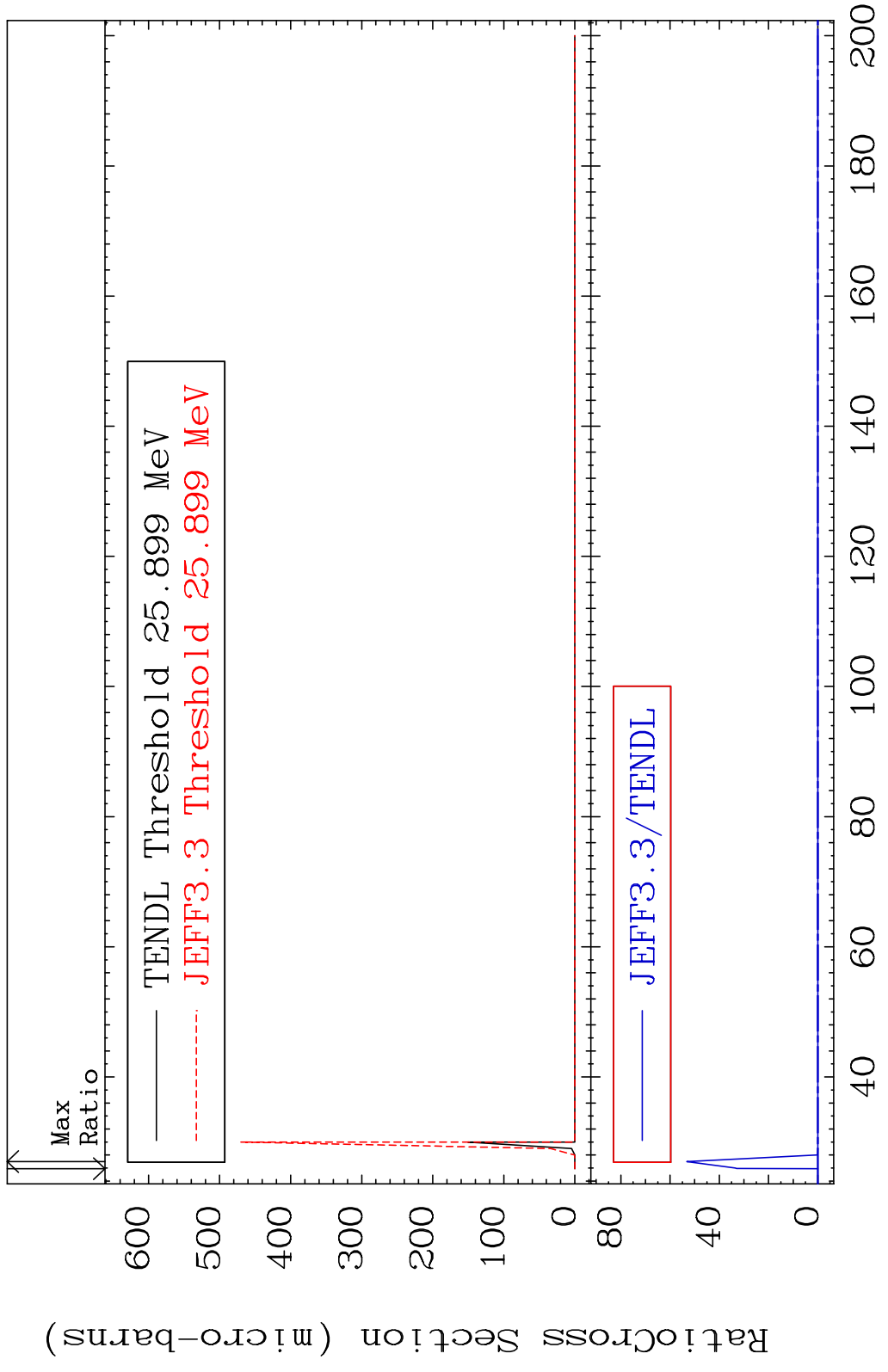


MAT 4431 (n,2n) p:43-Tc-96g 44-Ru-98
 Radionuclide Production Cross Section Ratio 674.9 %



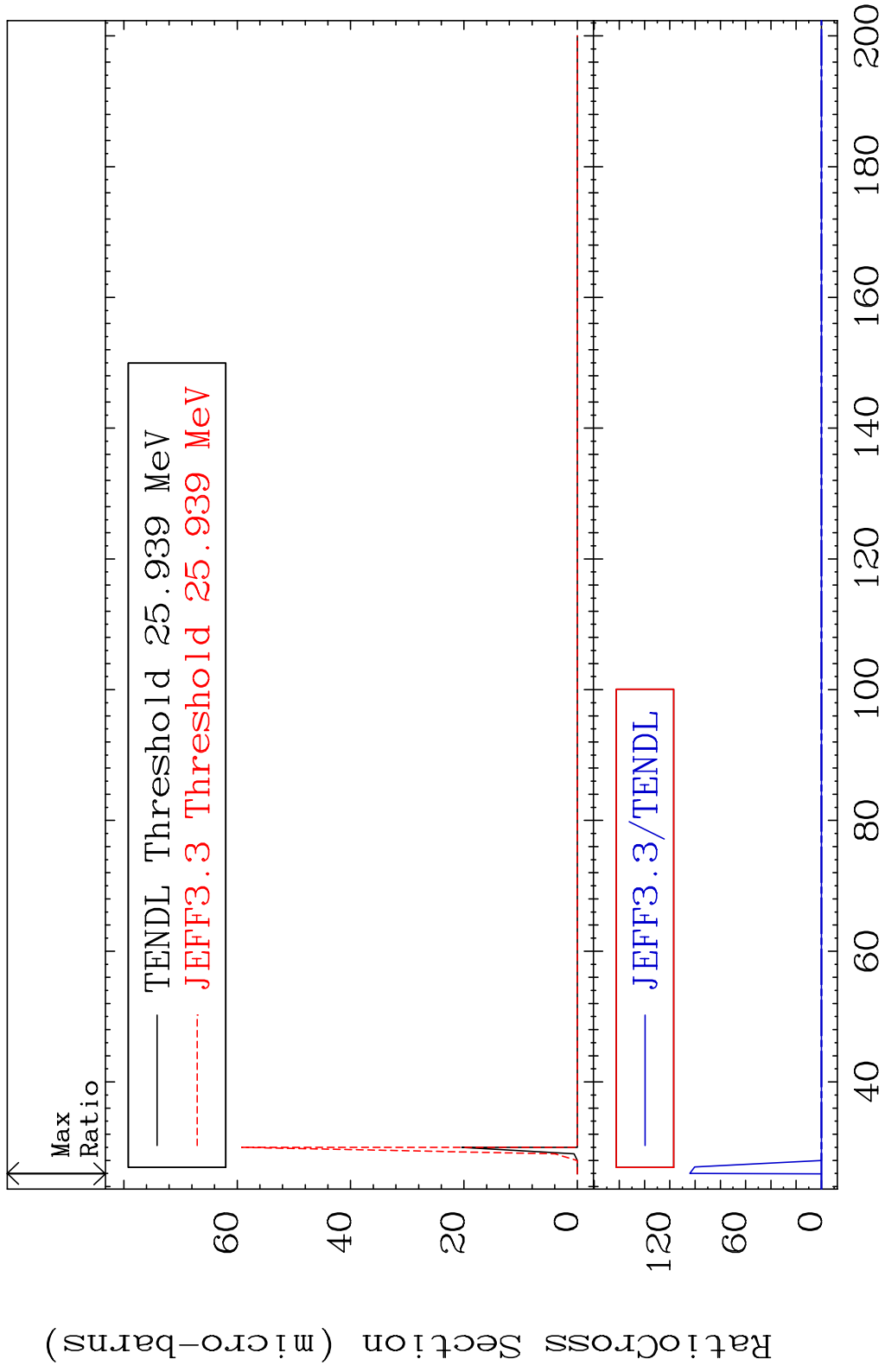


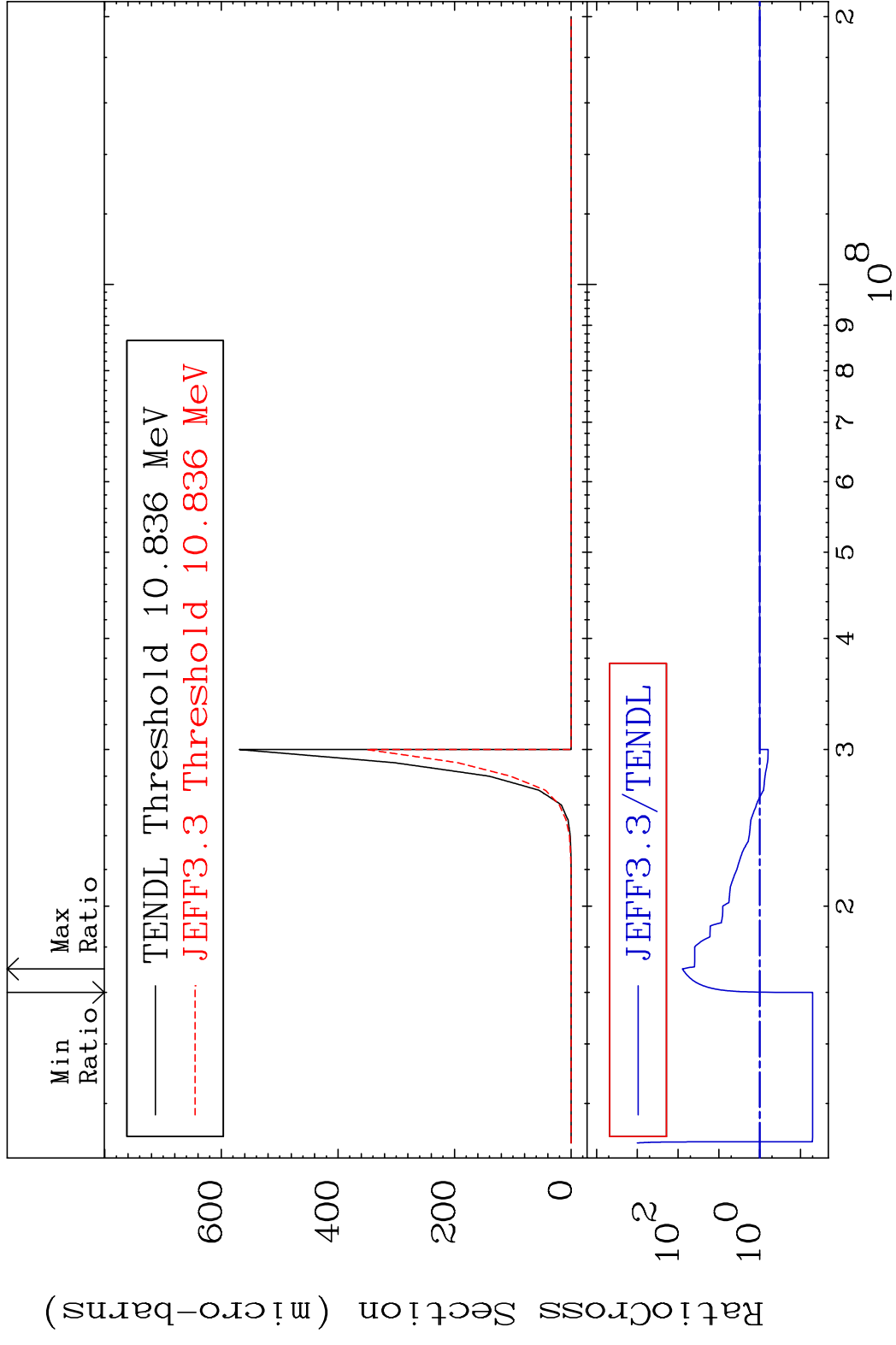
MAT 4431 (n, 3n) p:43-Tc-95g 44-Ru-98
 Radionuclide Production Cross Section 100.00 % 9999. %



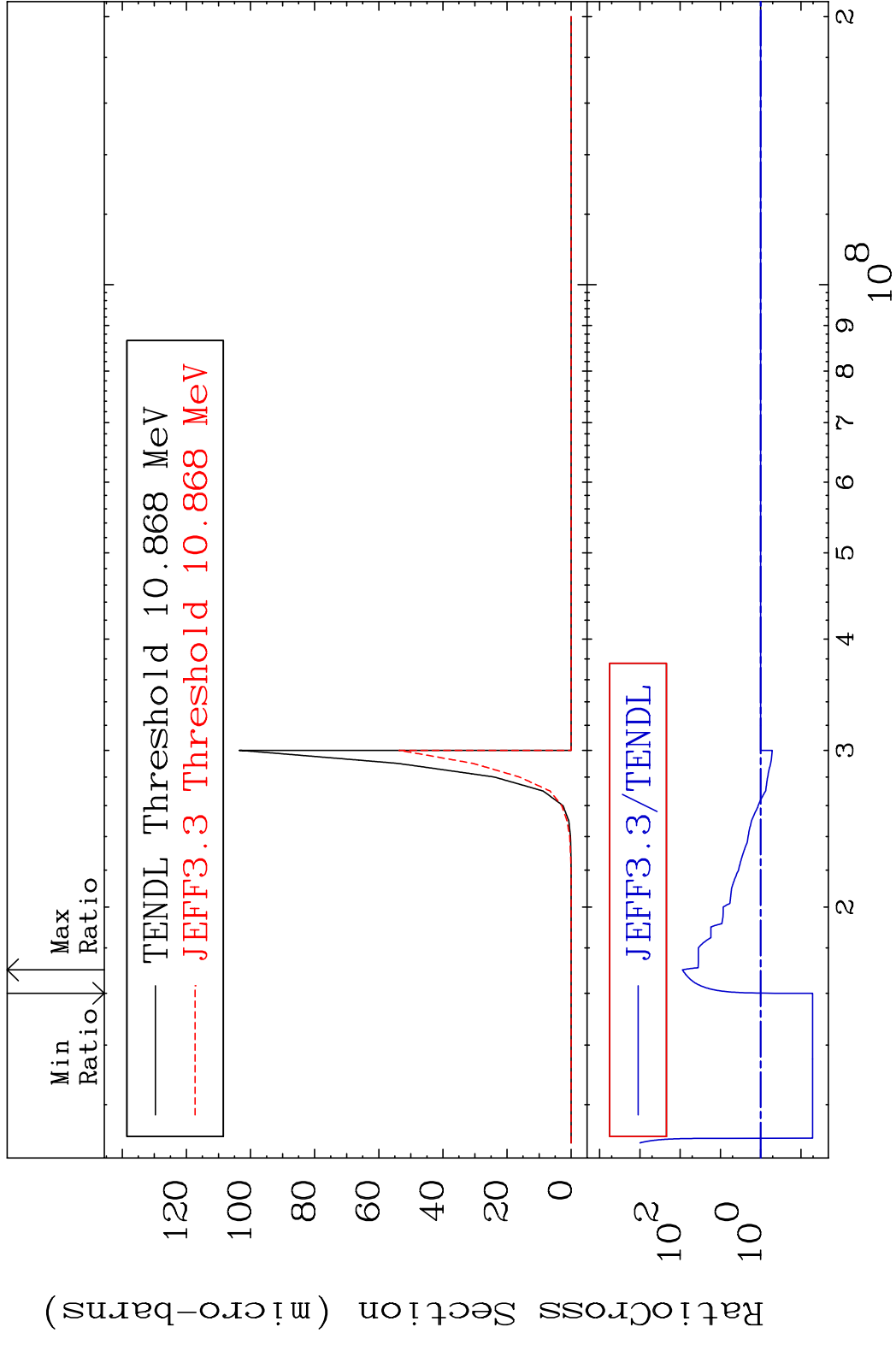
90 Incident Energy (MeV) 44-Ru-98

MAT 4431 (n,3n) p:43-Tc-95m1 44-Ru-98
 Radionuclide Production Cross Section Ratio 9999. %

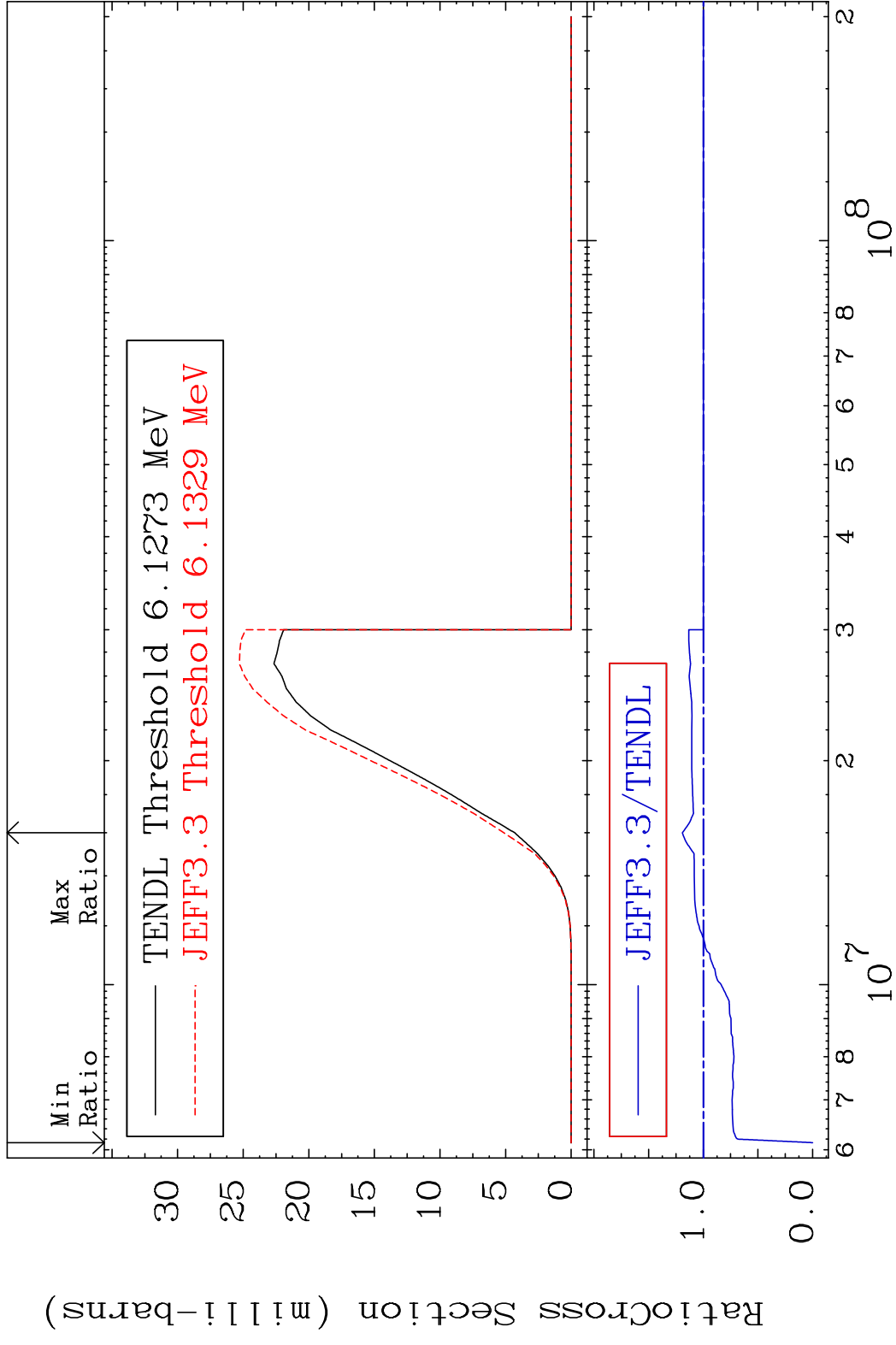




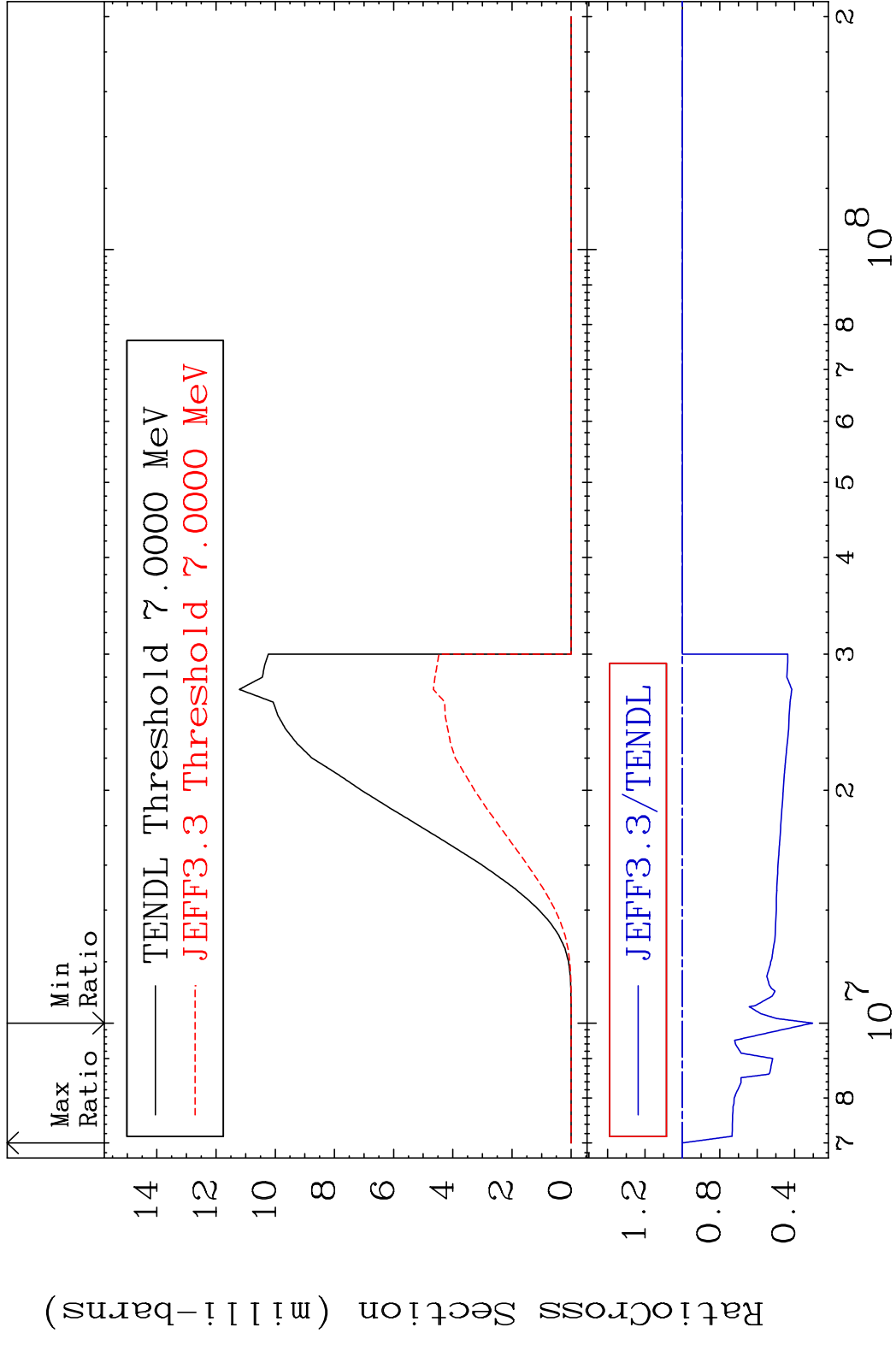
MAT 4431 (n, n') p α : 41-Nb-93m1 44-Ru-98
 Radionuclide Production Cross Section 8710. %



MAT 4431 (n, d) : 43-Tc-97g 44-Ru-98
 Radionuclide Production Cross Section 180.01 dth 19.15 %

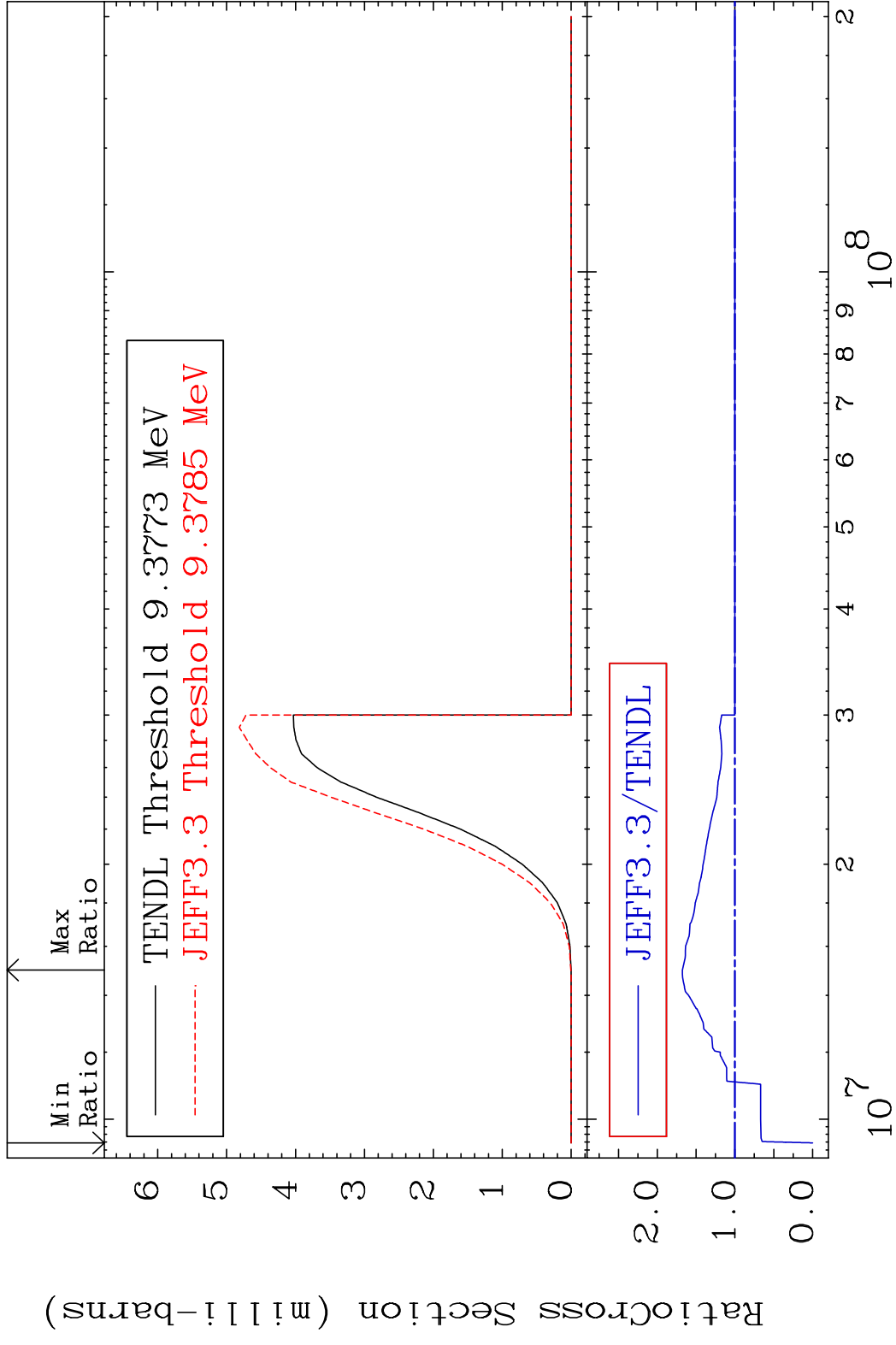


MAT 4431 (n,d):43-Tc-97m1 44-Ru-98
 Radionuclide Production Cross Section 0.000 %



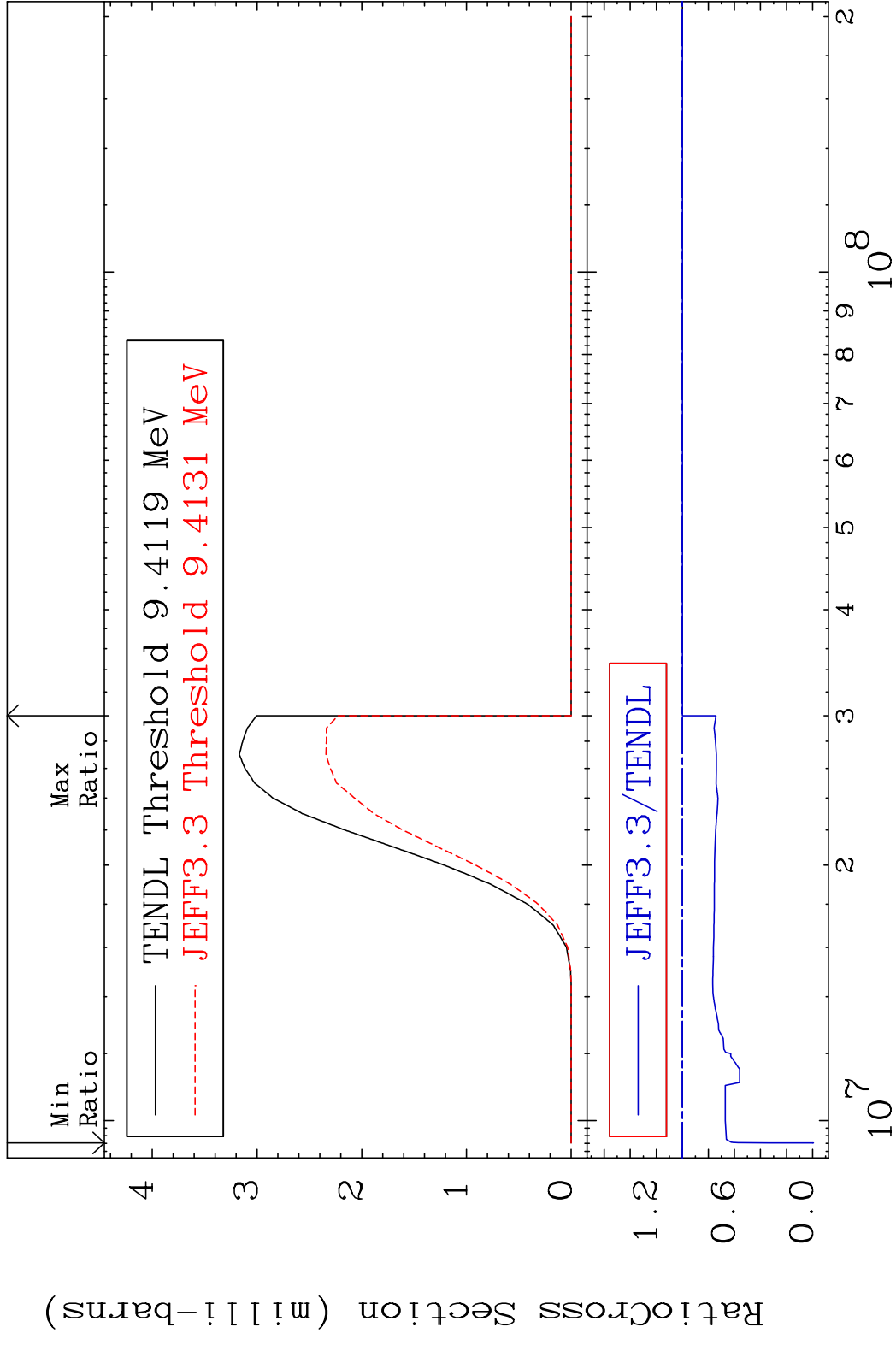
95 44-Ru-98

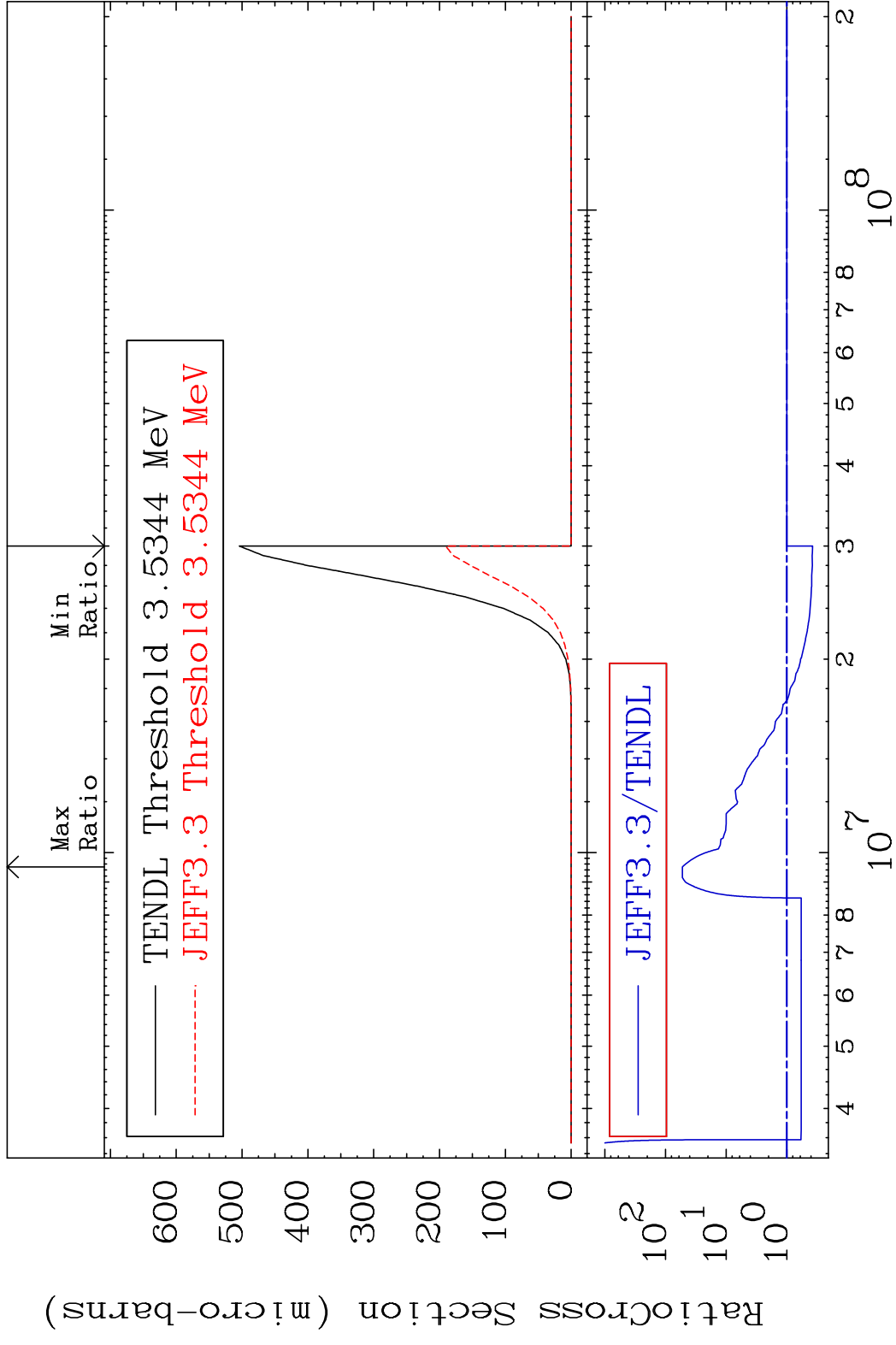
MAT 4431 (n, t): 43-Tc-96g 44-Ru-98
 Radionuclide Production Cross Section 180.01 dth 67.70 %



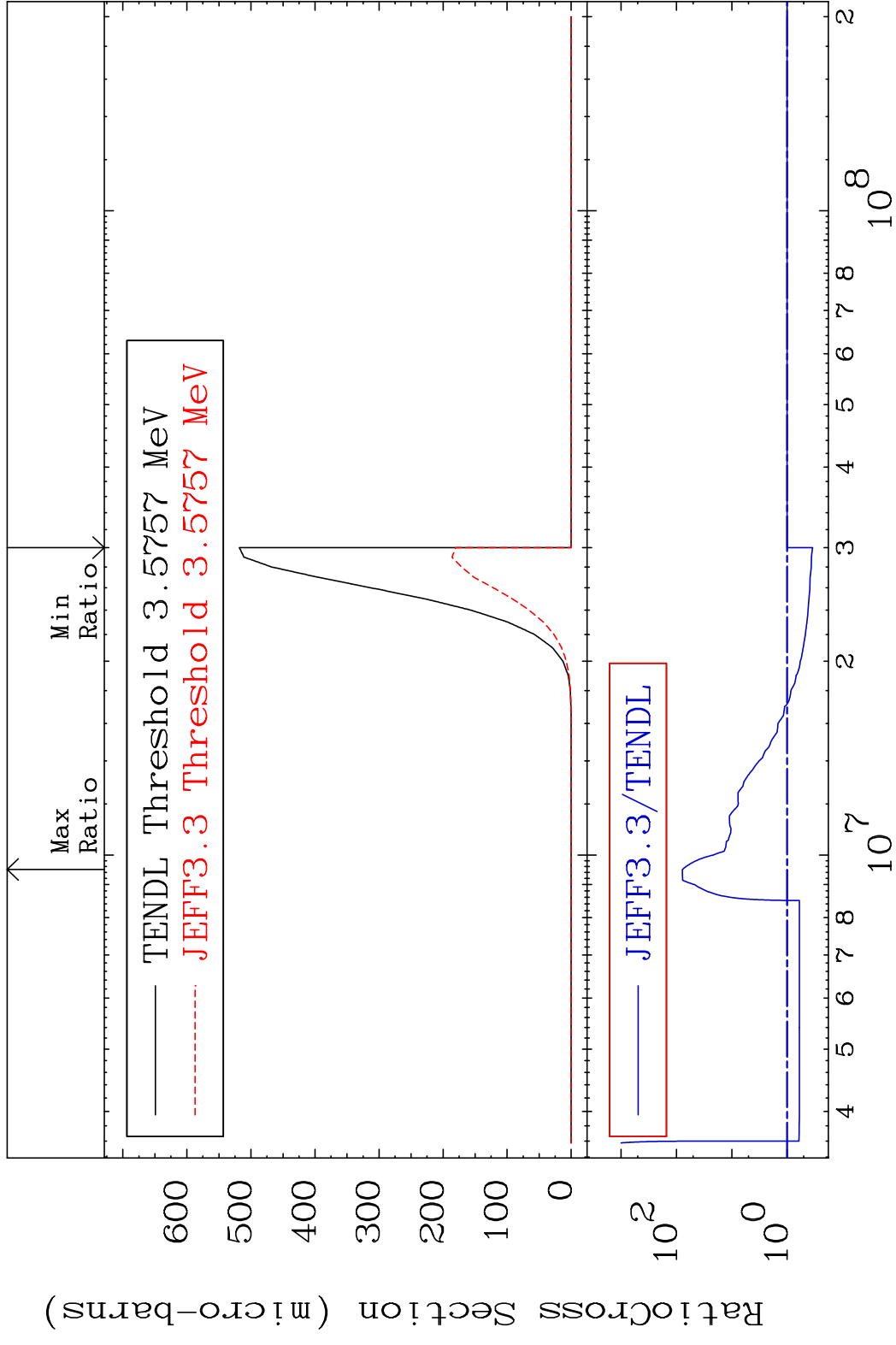
96 44-Ru-98

MAT 4431 (n, t): 43-Tc-96m1 44-Ru-98
 Radionuclide Production Cross Section Ratio 0.000 %

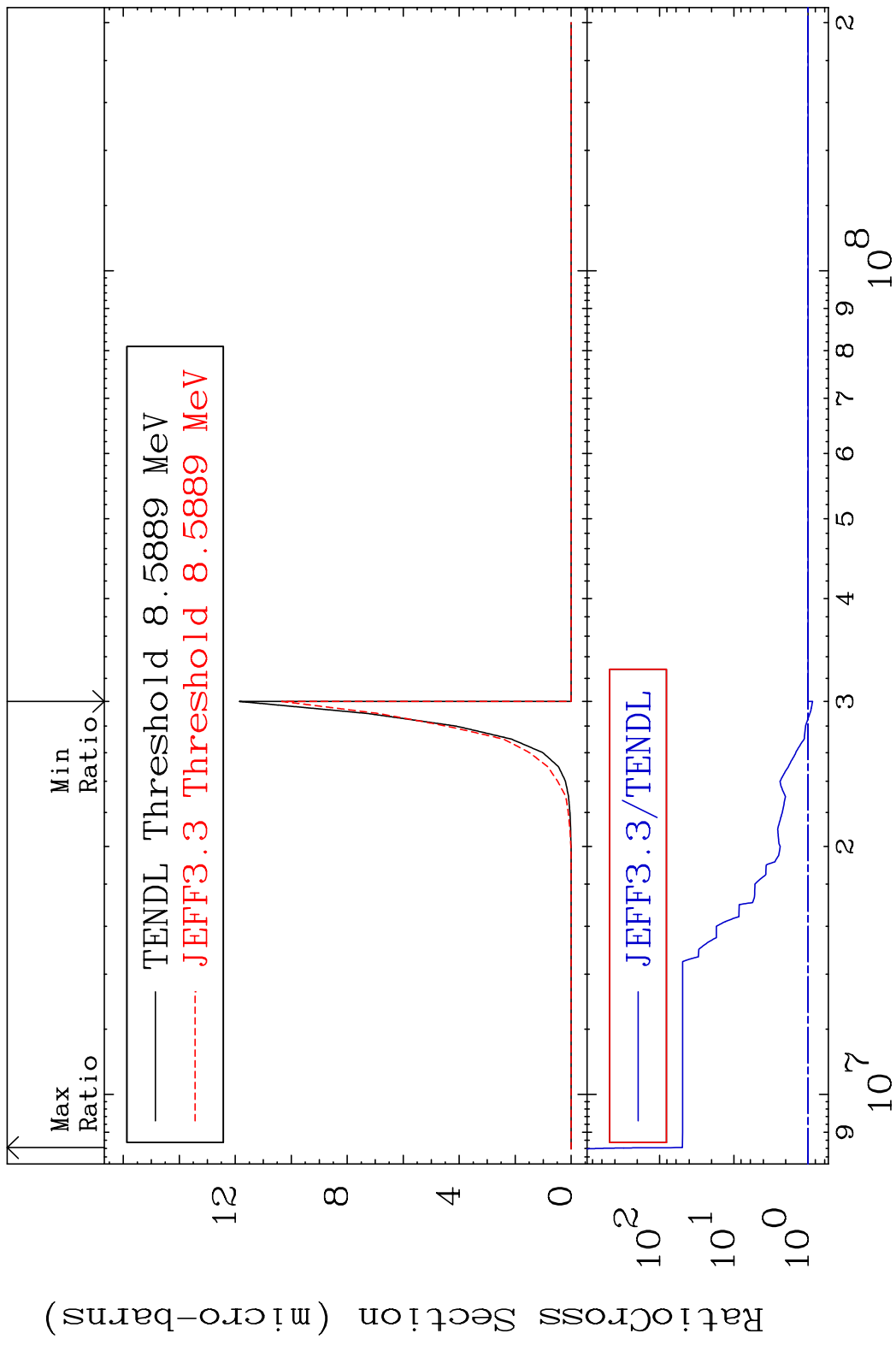




MAT 4431 (n,p) α :41-Nb-94m1 44-Ru-98
 Radionuclide Production Cross Section 7704. %

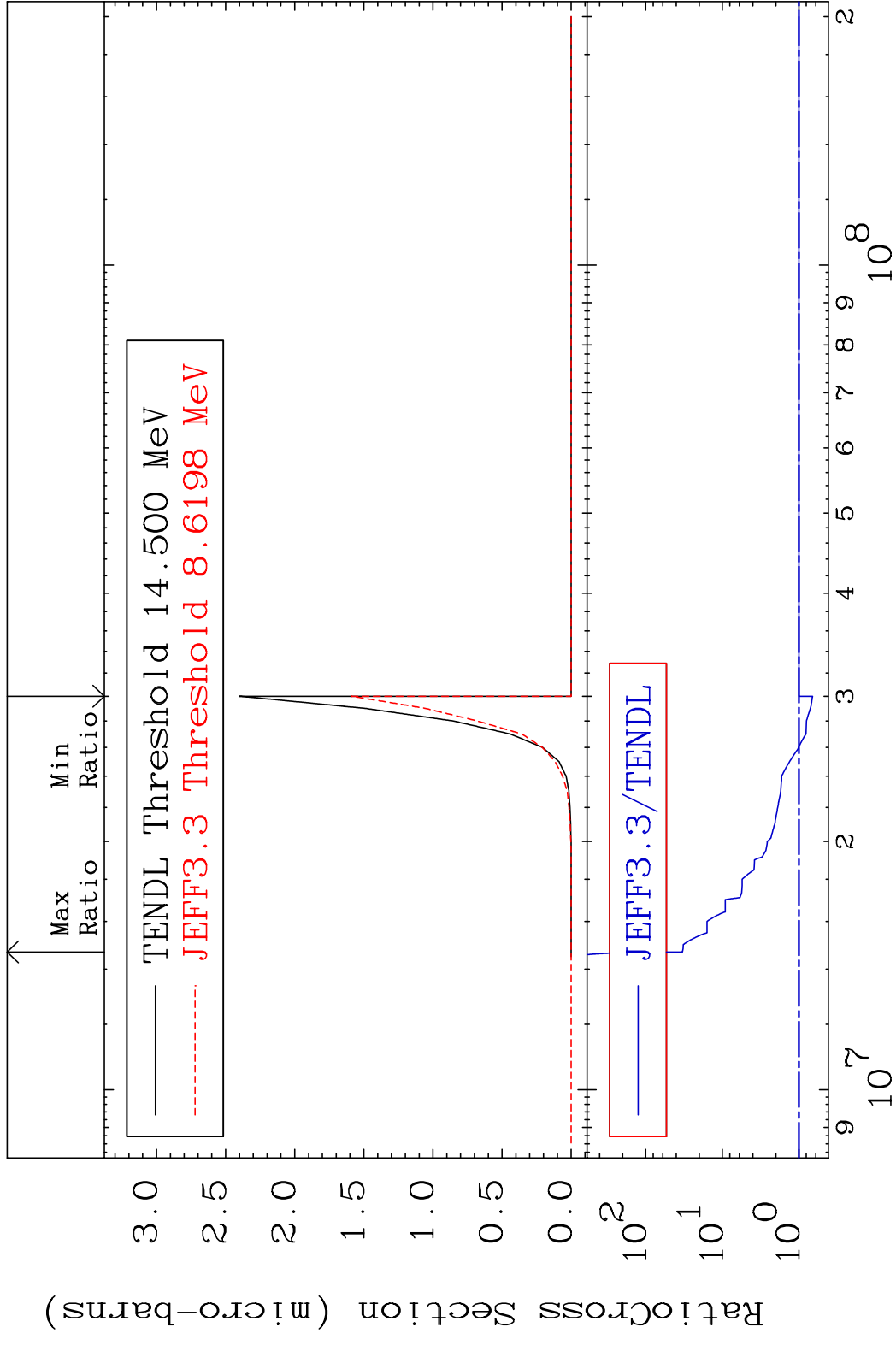


MAT 4431 (n, d) α :41-Nb-93g 44-Ru-98
 Radionuclide Production Cross Section 12.611 dth 4839. %



100 44-Ru-98

MAT 4431 (n, d) α :41-Nb-93m1 44-Ru-98
 Radionuclide Production Cross Section 3227. %



101 101 Incident Energy (eV) 44-Ru-98