

Program Complot
(Version 2021-1)

by

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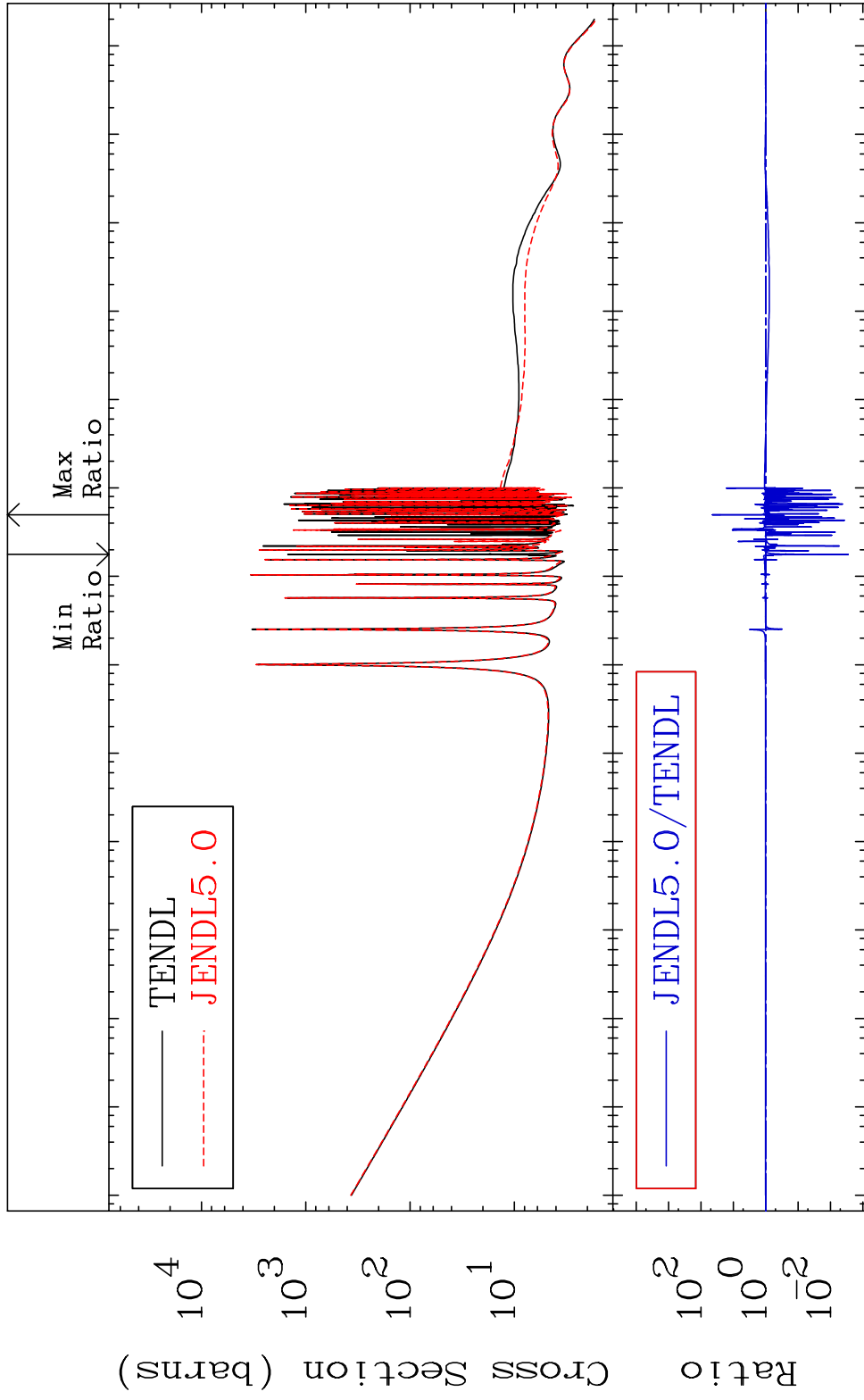
Press Mouse Button to Start

MAT 4434

Total

44-Ru-99

Cross Section -99.72 To 4316. %



1

Incident Energy (eV)

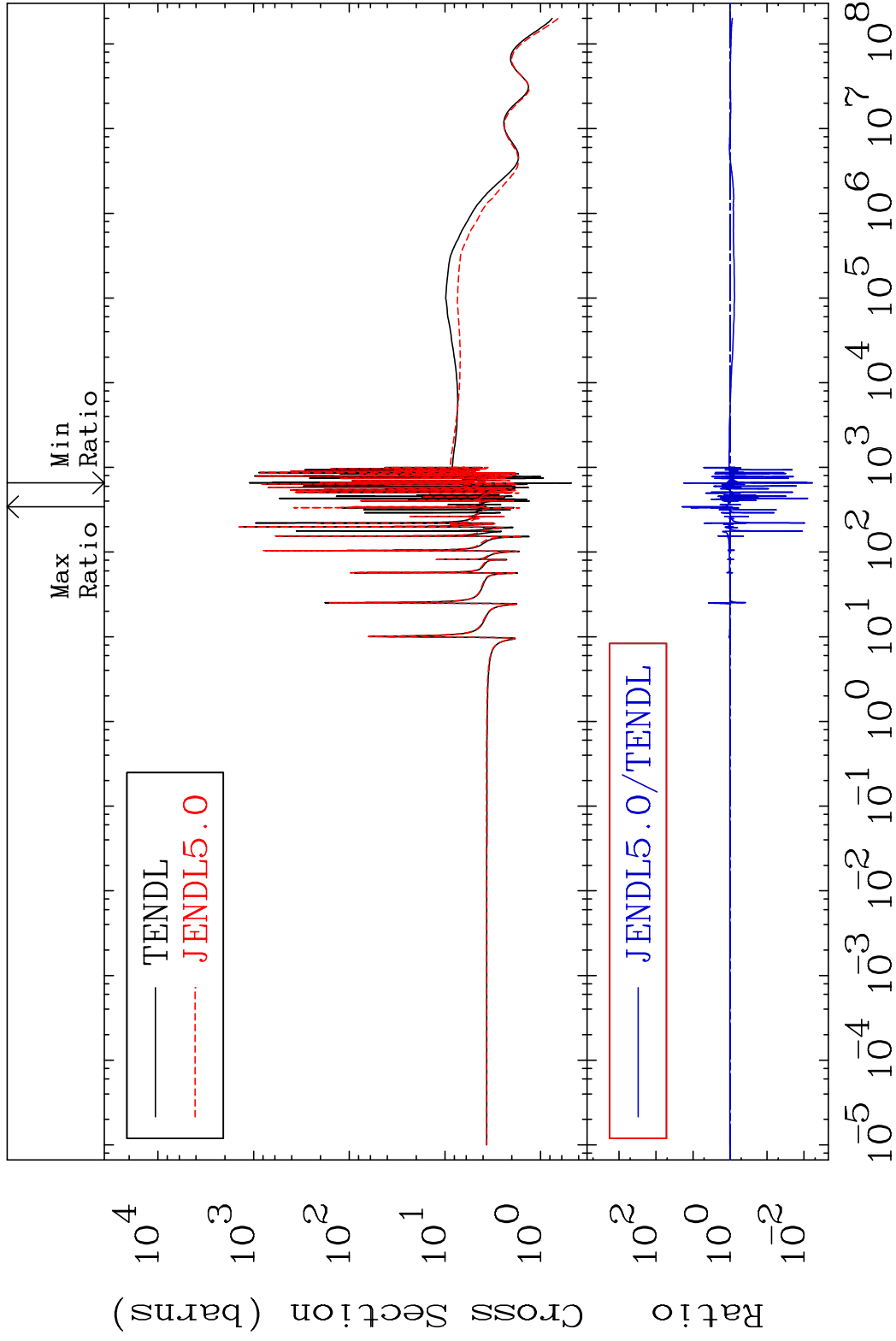
44-Ru-99

MAT 4434

Elastic

44-Ru-99

Cross Section -99.41 To 1839. %

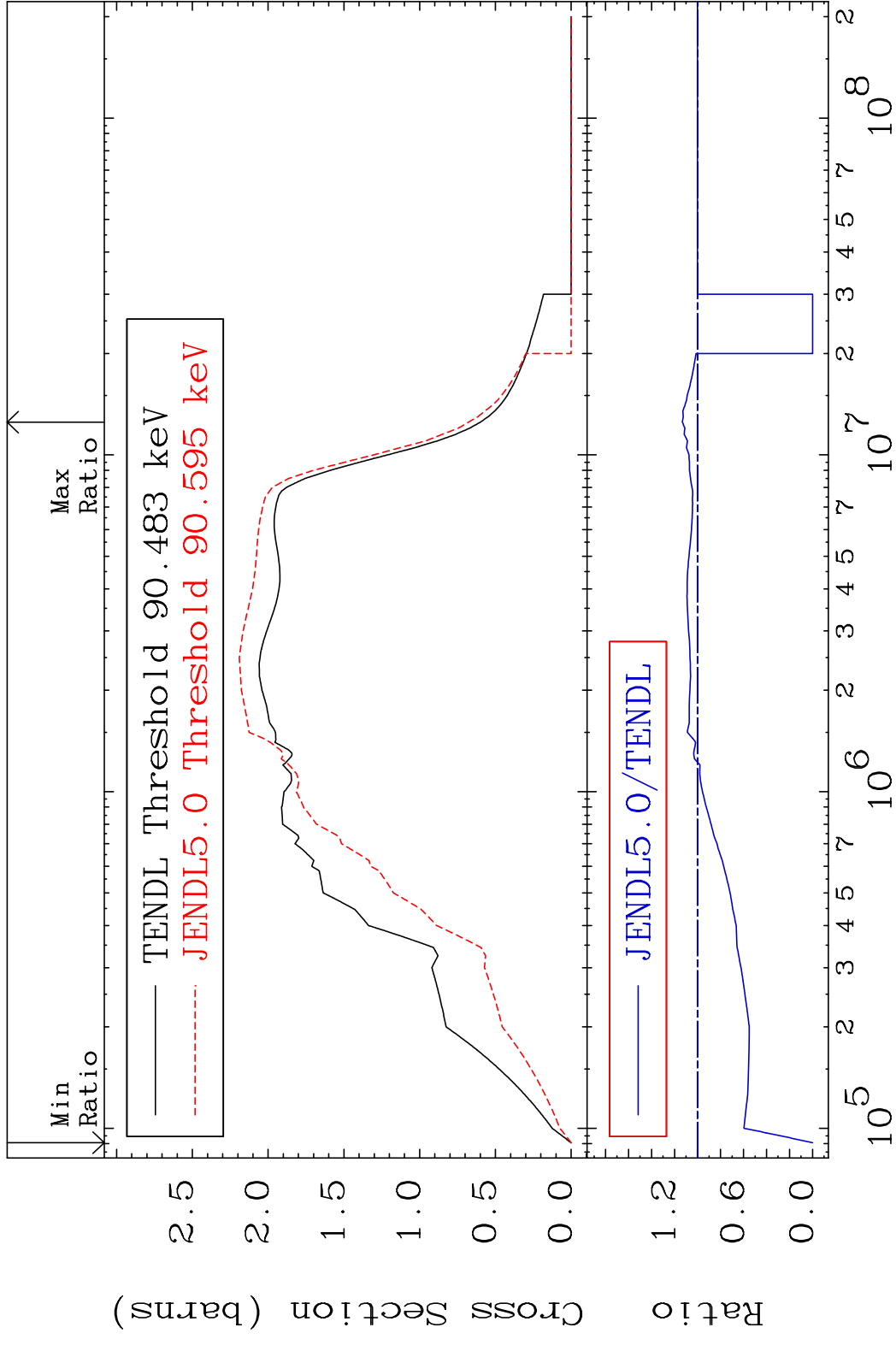


2

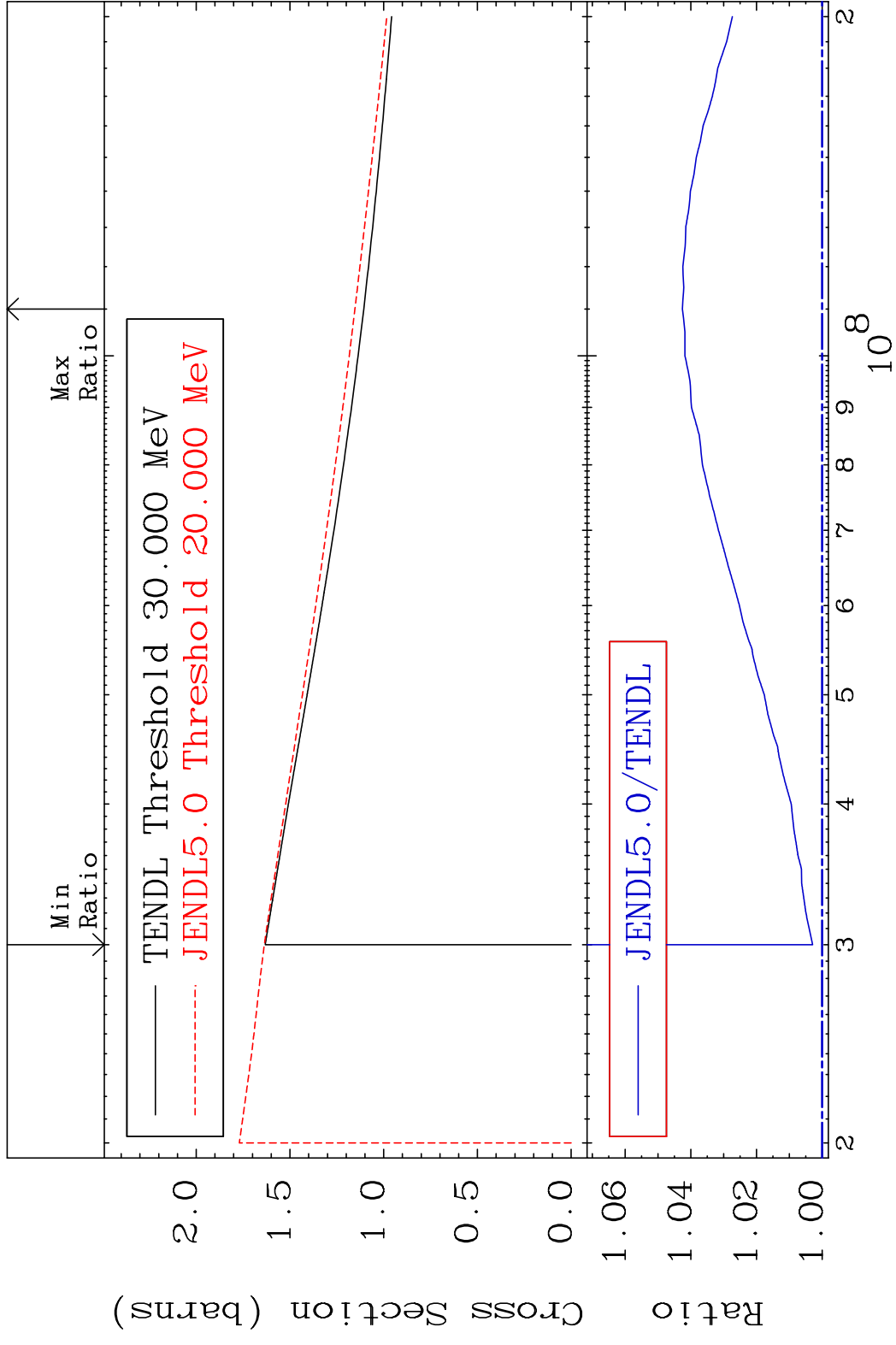
Incident Energy (eV)

44-Ru-99

MAT 4434 Inelastic Cross Section -100.0 To 13.21 % 44-Ru-99



MAT 4434 (n, remainder) 44-Ru-99
 Cross Section 0.290 To 4.255 %



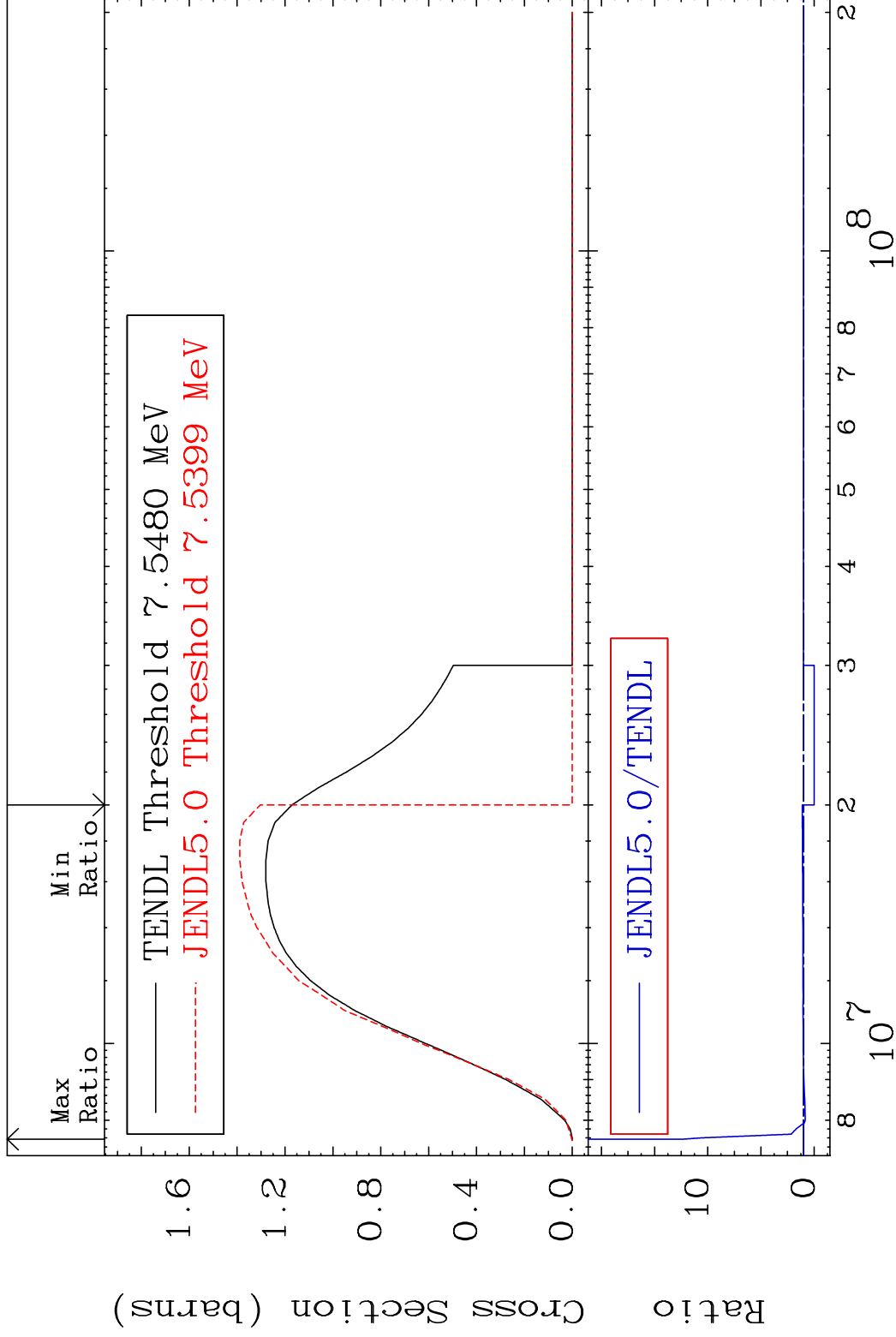
4 Incident Energy (eV) 44-Ru-99

MAT 4434

(n,2n)

44-Ru-99

Cross Section -100.0 To 1127. %

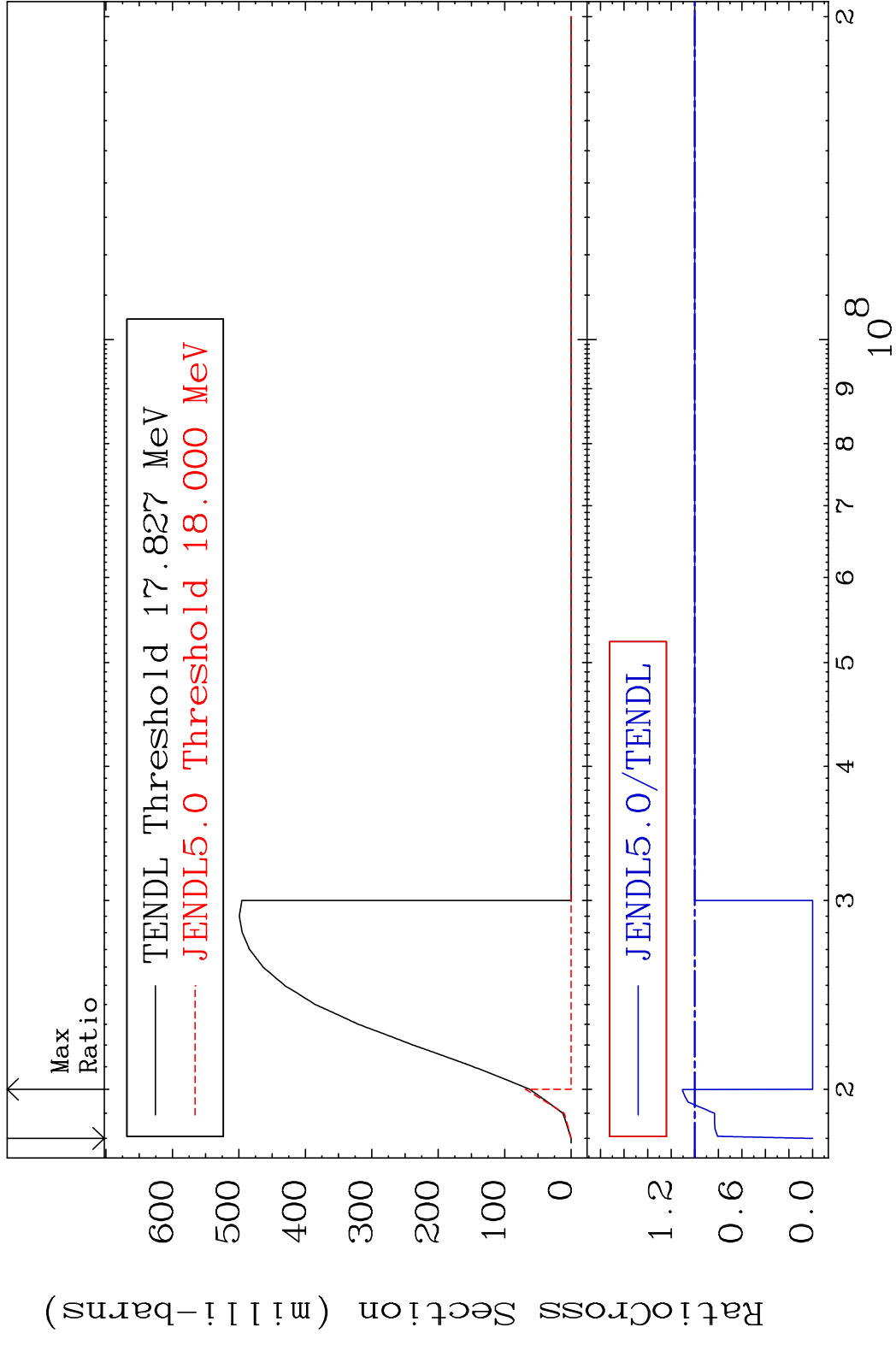


5

Incident Energy (eV)

44-Ru-99

MAT 4434 (n,3n) 44-Ru-99
 Cross Section -100.0 To 10.55 %

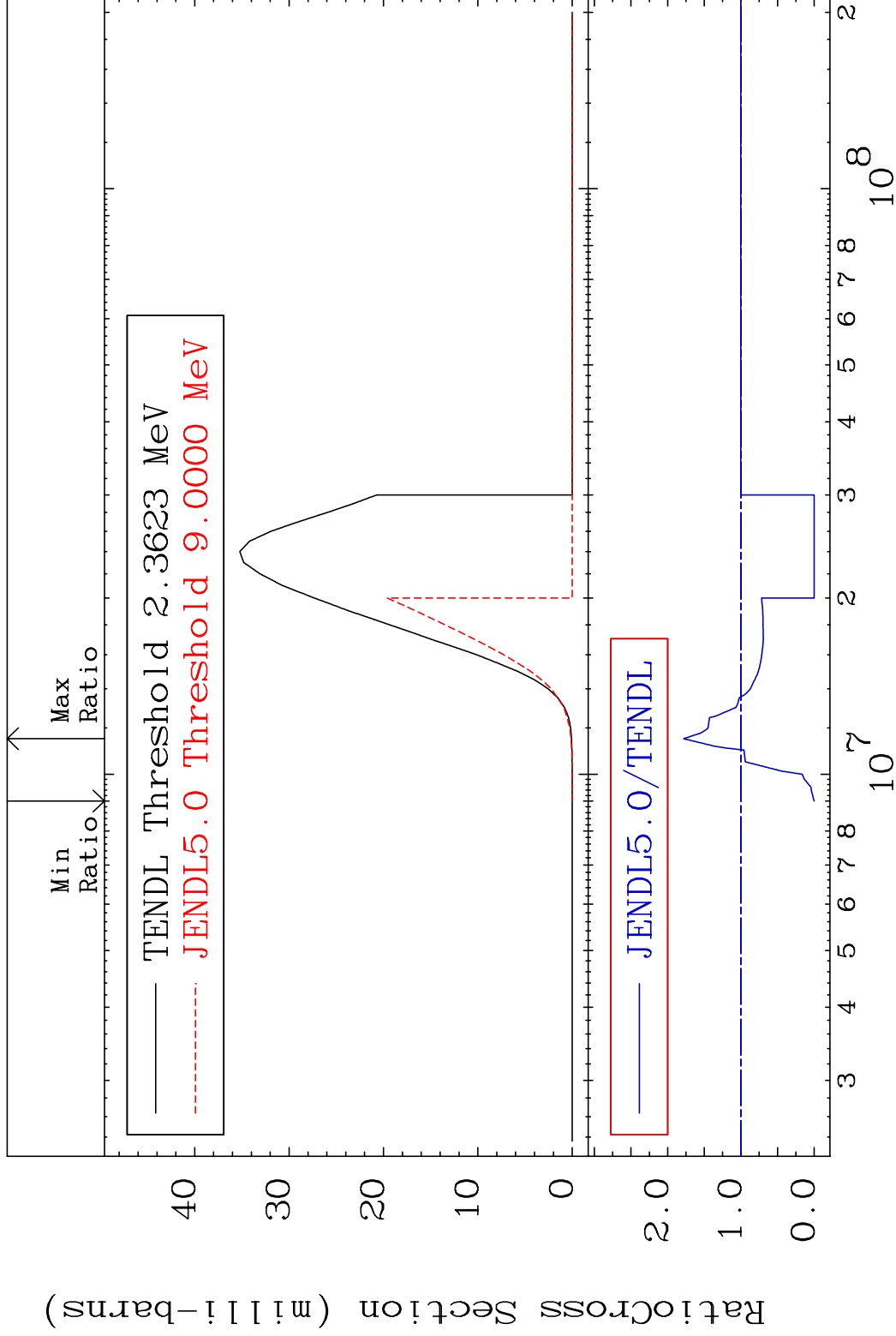


MAT 4434

(n, n') α

44-Ru-99

Cross Section -100.0 To 78.12 %



7

Incident Energy (eV)

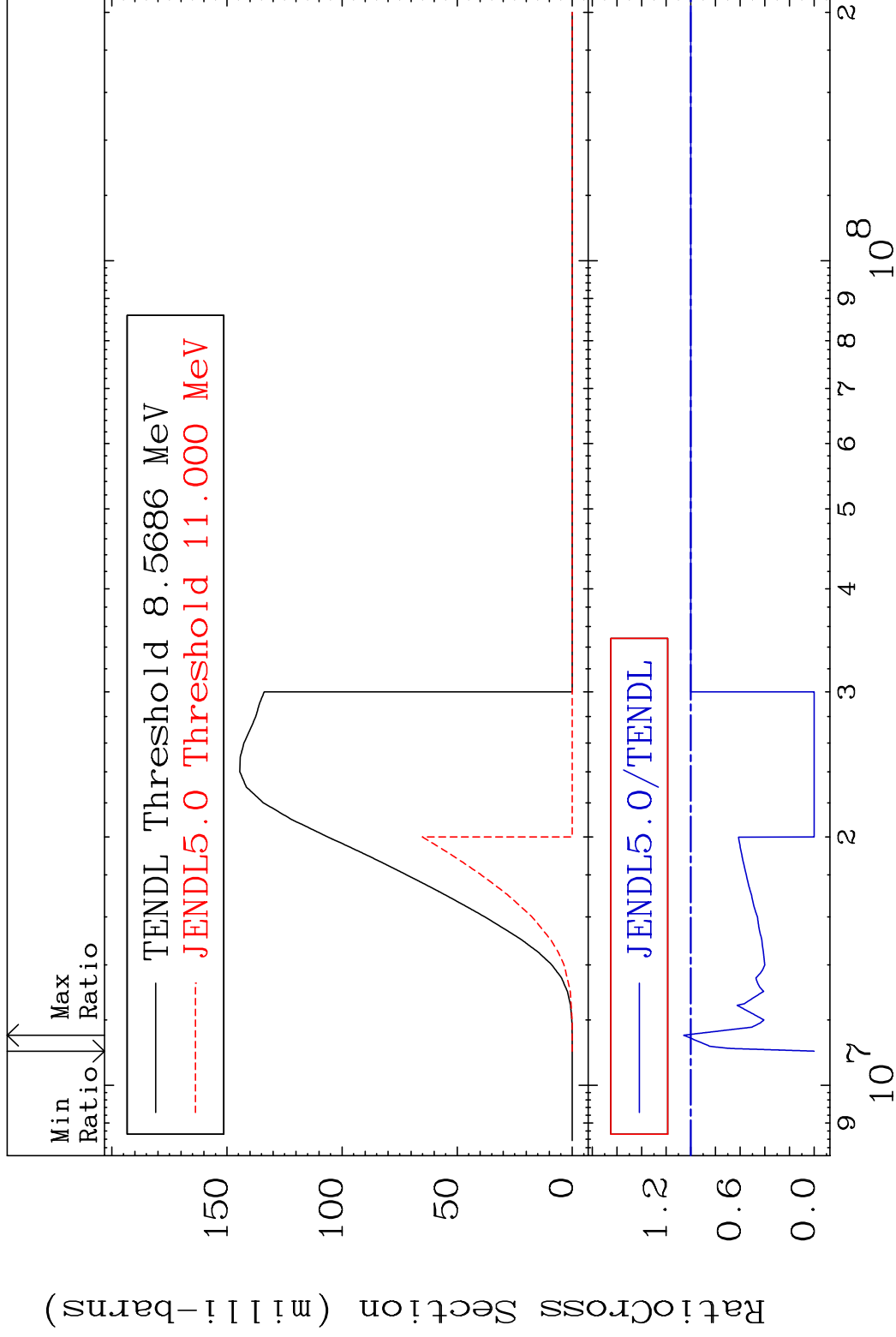
44-Ru-99

MAT 4434

(n, n') p

44-Ru-99

Cross Section -100.0 To 5.846 %



8

Incident Energy (eV)

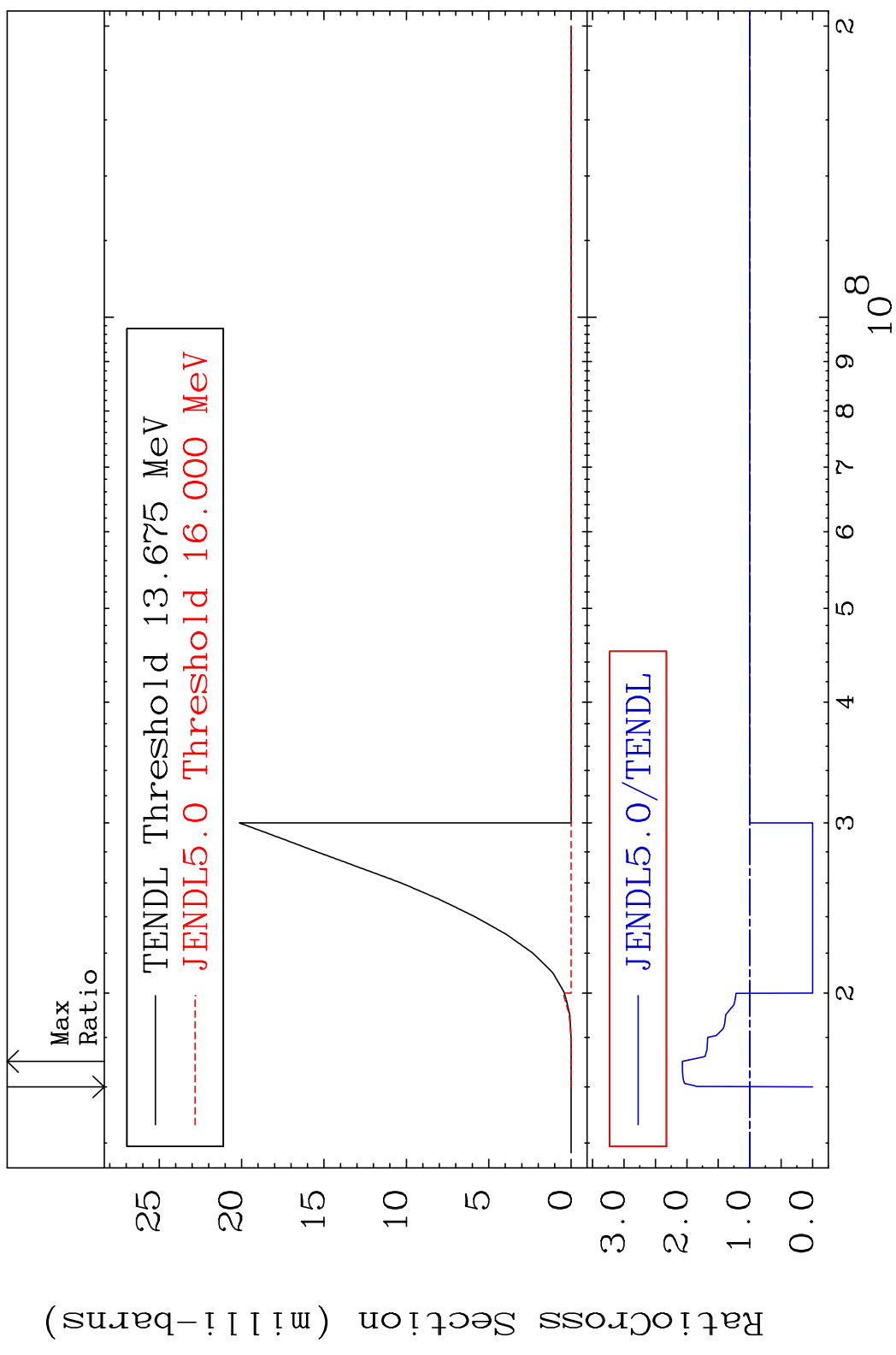
44-Ru-99

MAT 4434

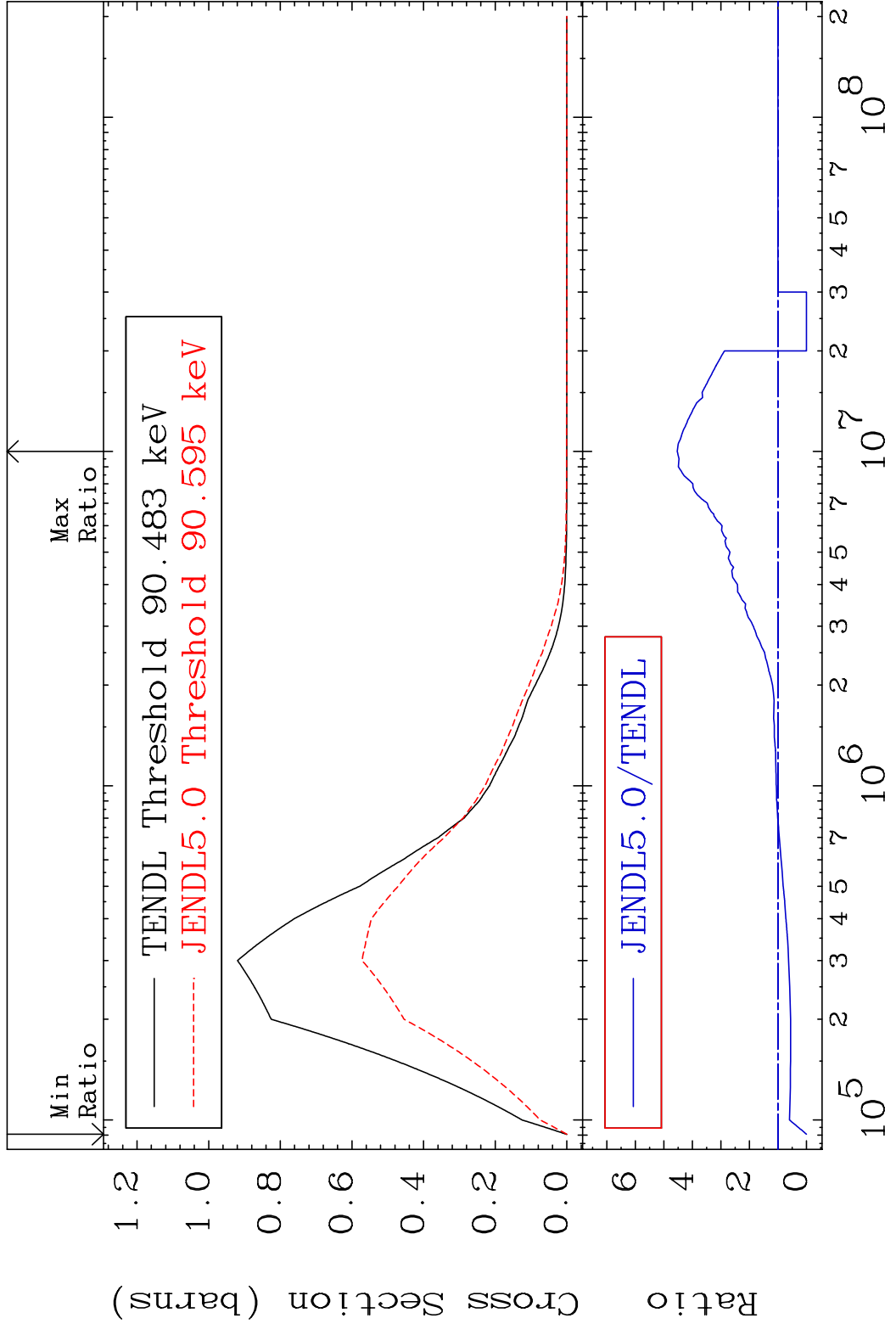
(n, n') d

44-Ru-99

Cross Section -100.0 To 107.1 %

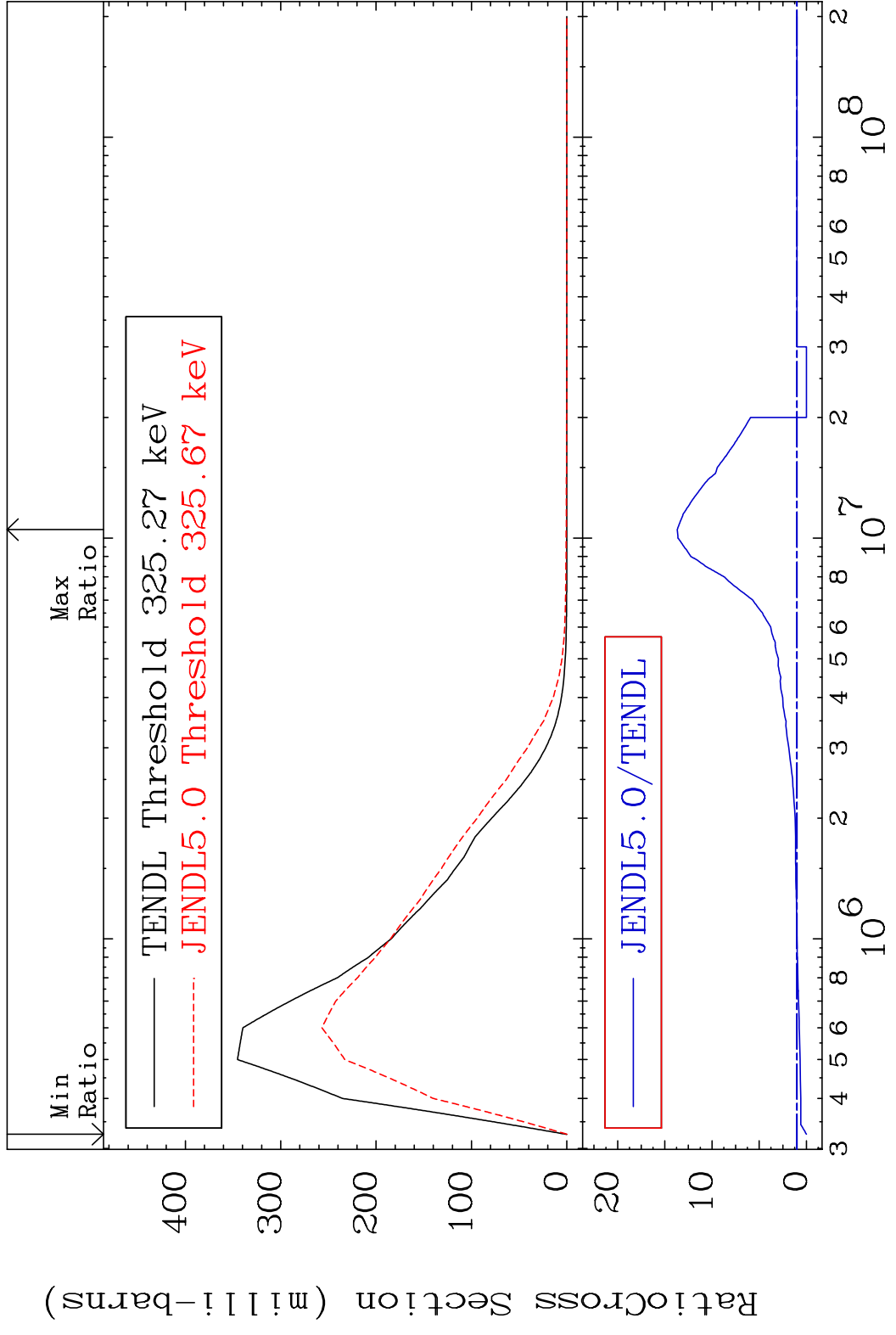


MAT 4434 MT= 51 (n, n') Level 44-Ru-99
 Cross Section -100.0 To 353.1 %

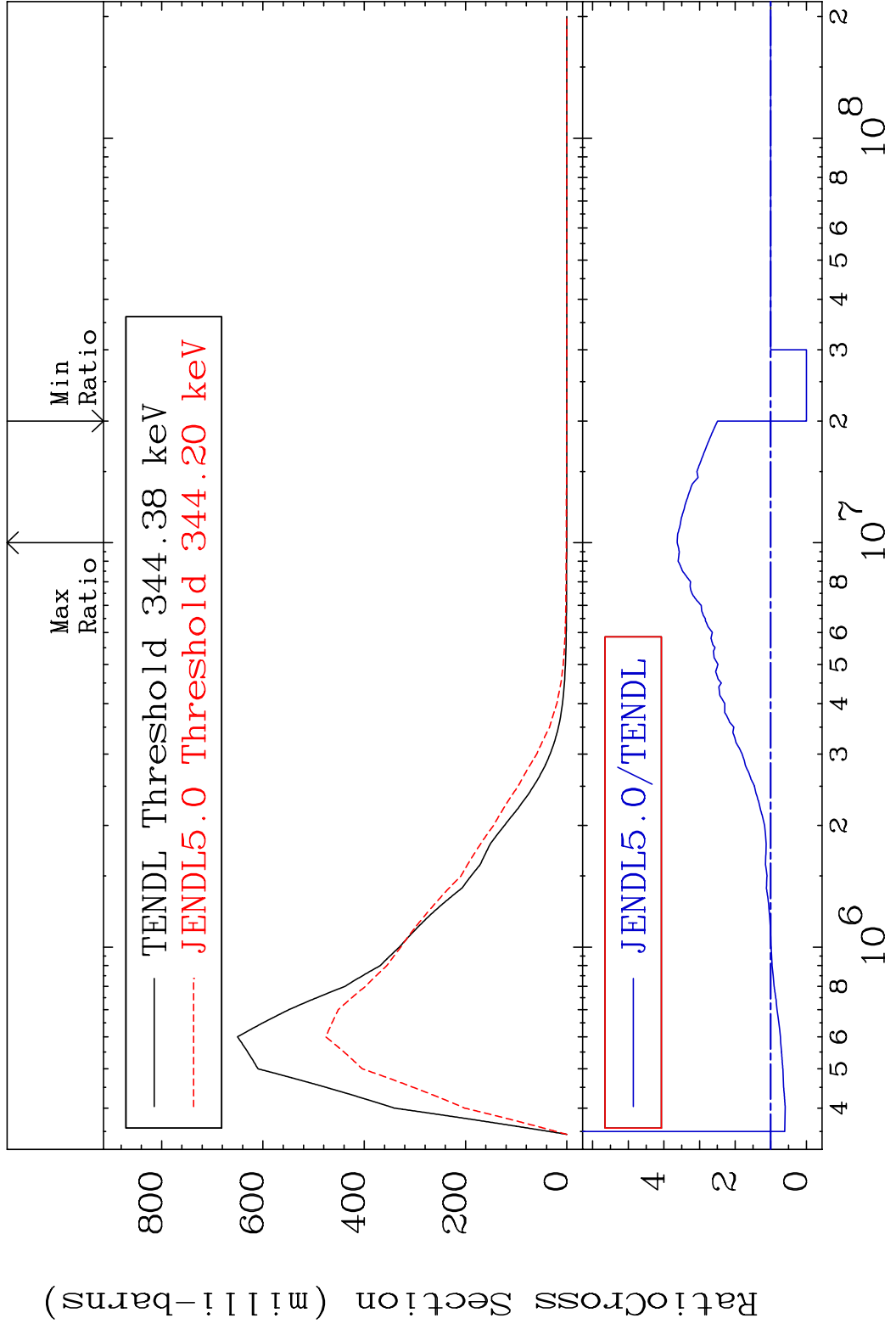


10 Incident Energy (eV) 44-Ru-99

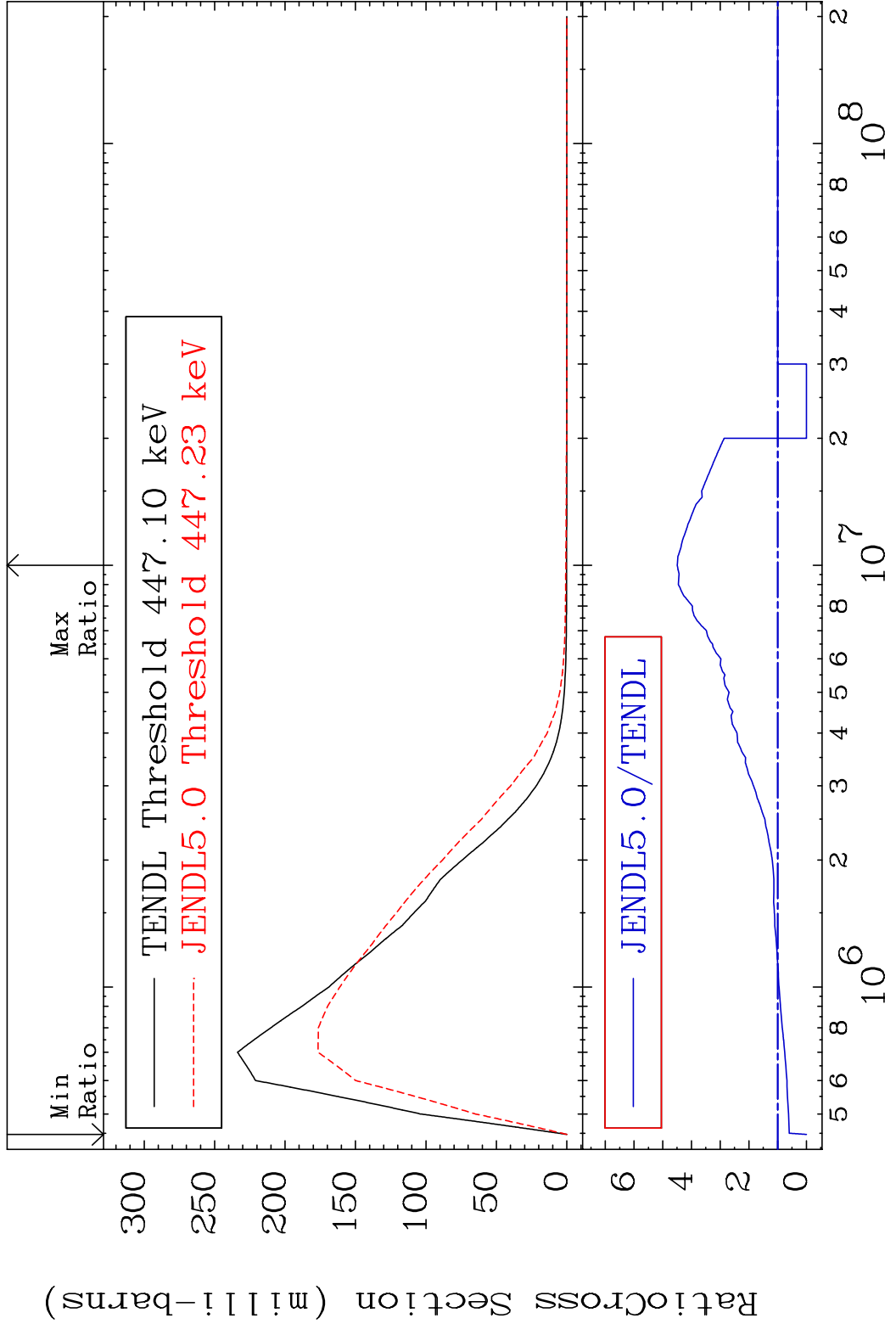
MAT 4434 MT= 52 (n, n') Level 44-Ru-99
 Cross Section -100.0 To 1269. %



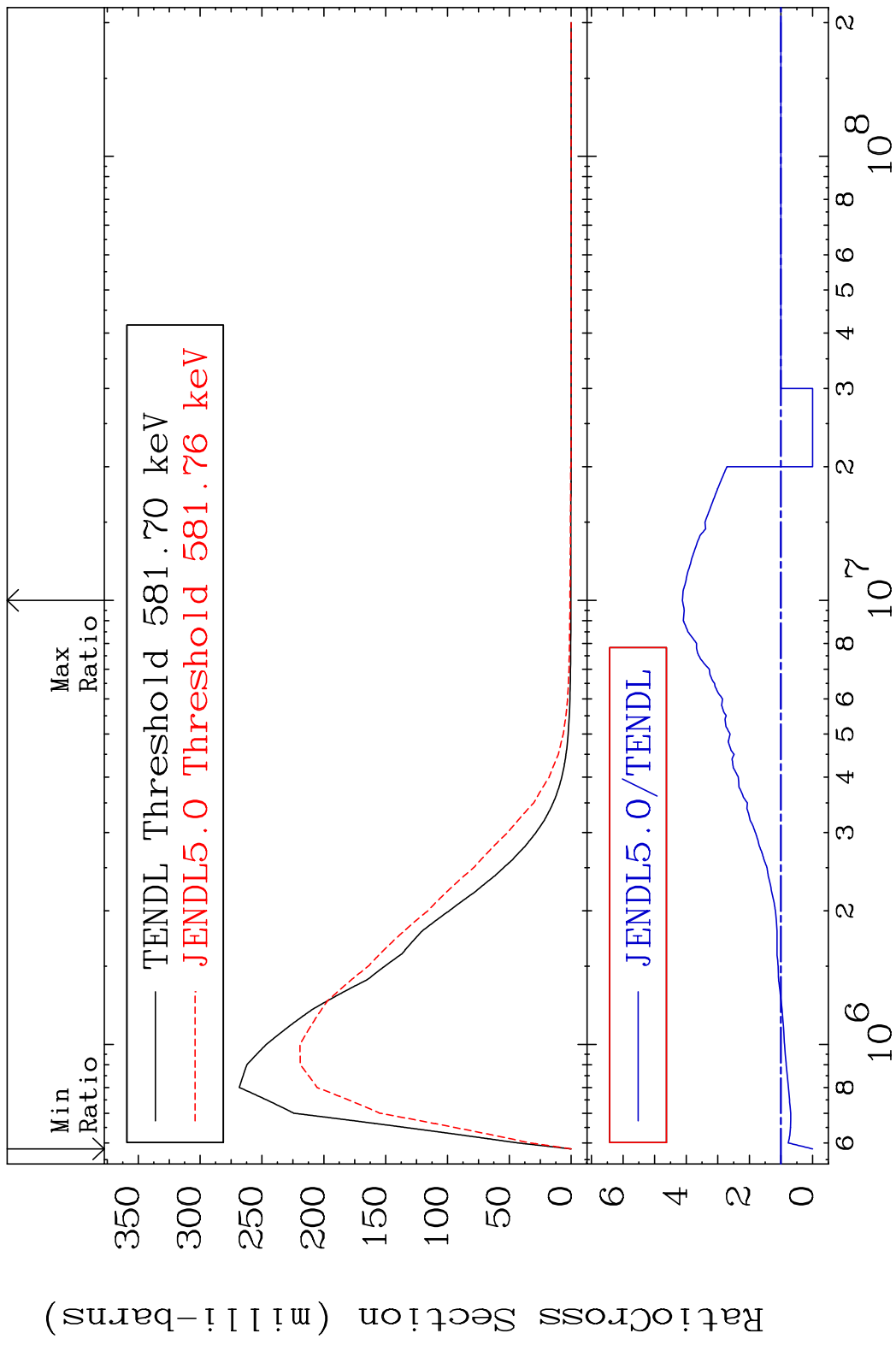
MAT 4434 MT= 53 (n, n') Level 44-Ru-99
 Cross Section -100.0 To 262.8 %



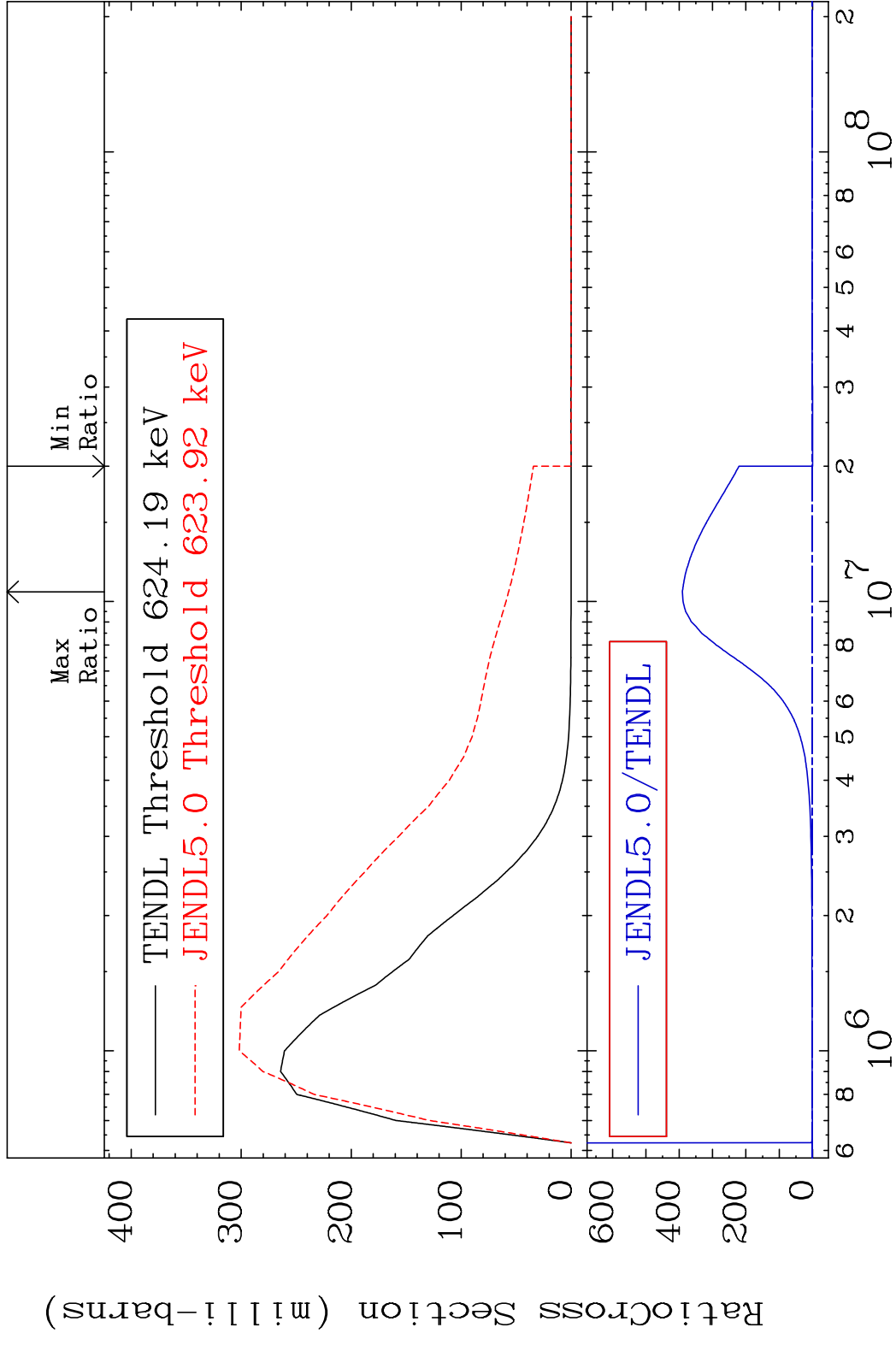
MAT 4434 MT= 54 (n, n') Level 44-Ru-99
 Cross Section -100.0 To 349.7 %



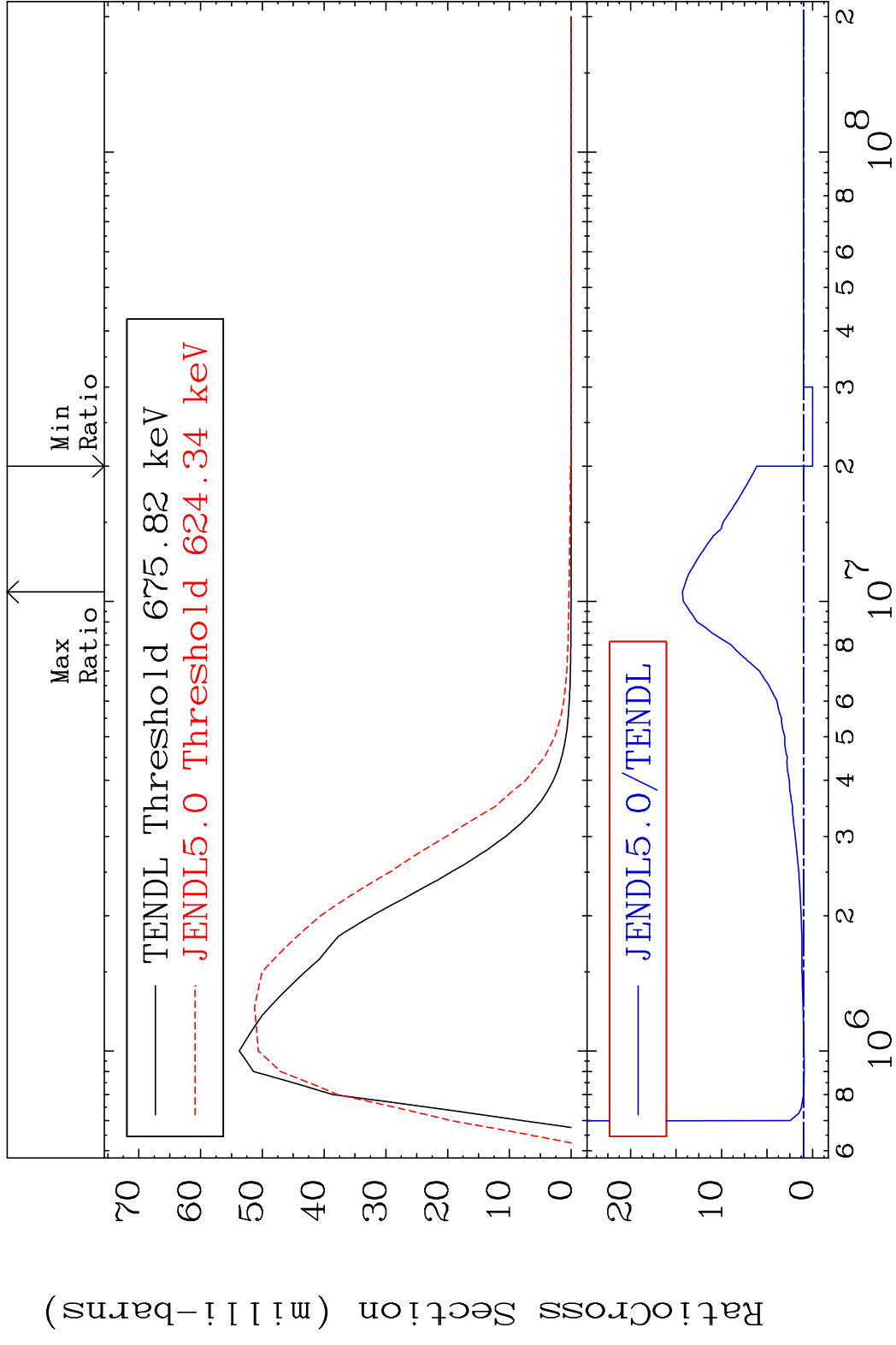
MAT 4434 MT= 55 (n, n') Level 44-Ru-99
 Cross Section -100.0 To 312.3 %



MAT 4434 MT= 56 (n, n') Level 44-Ru-99
 Cross Section -100.0 To 9999. %

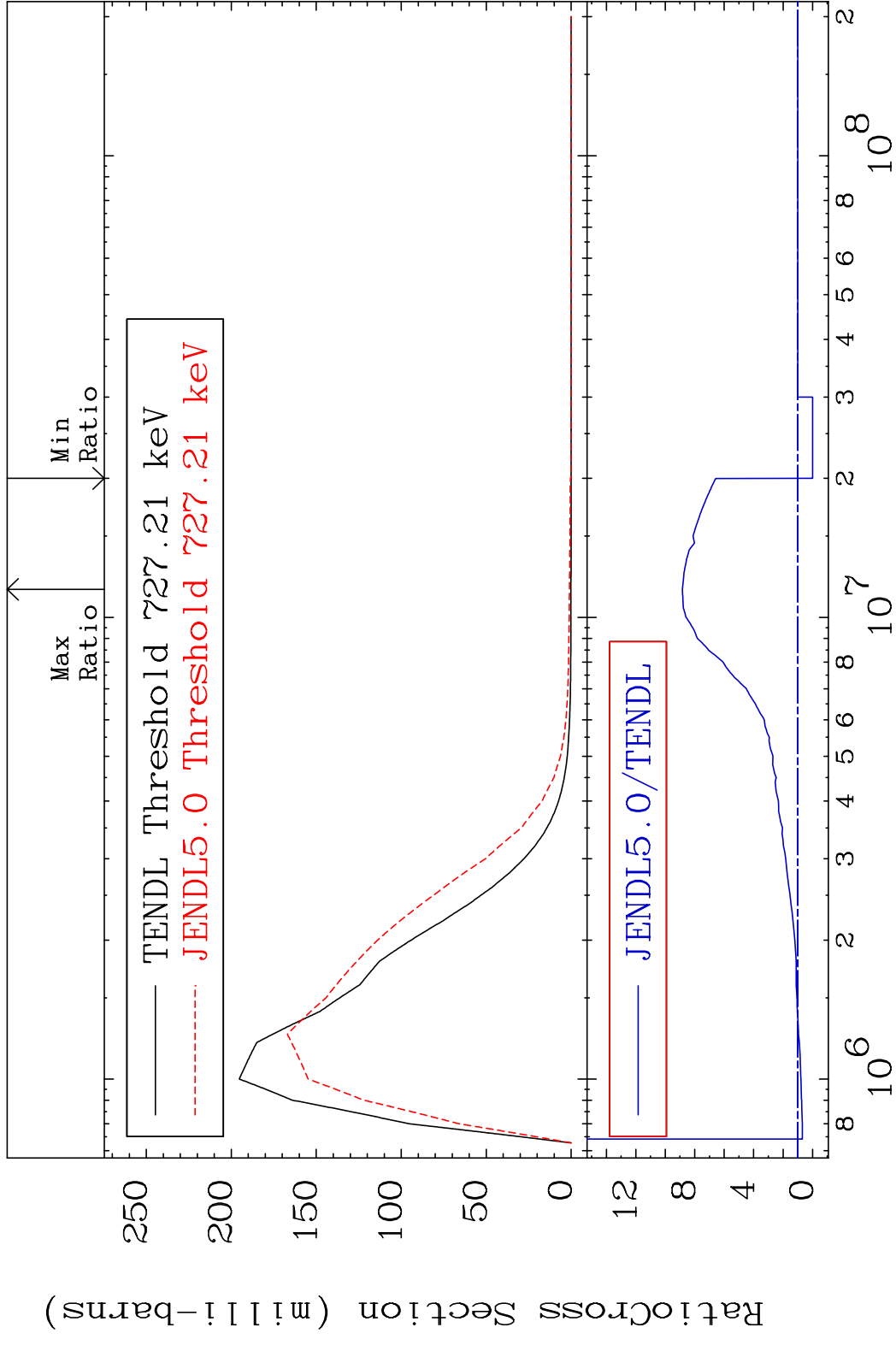


MAT 4434 MT= 57 (n, n') Level 44-Ru-99
 Cross Section -100.0 To 1331. %



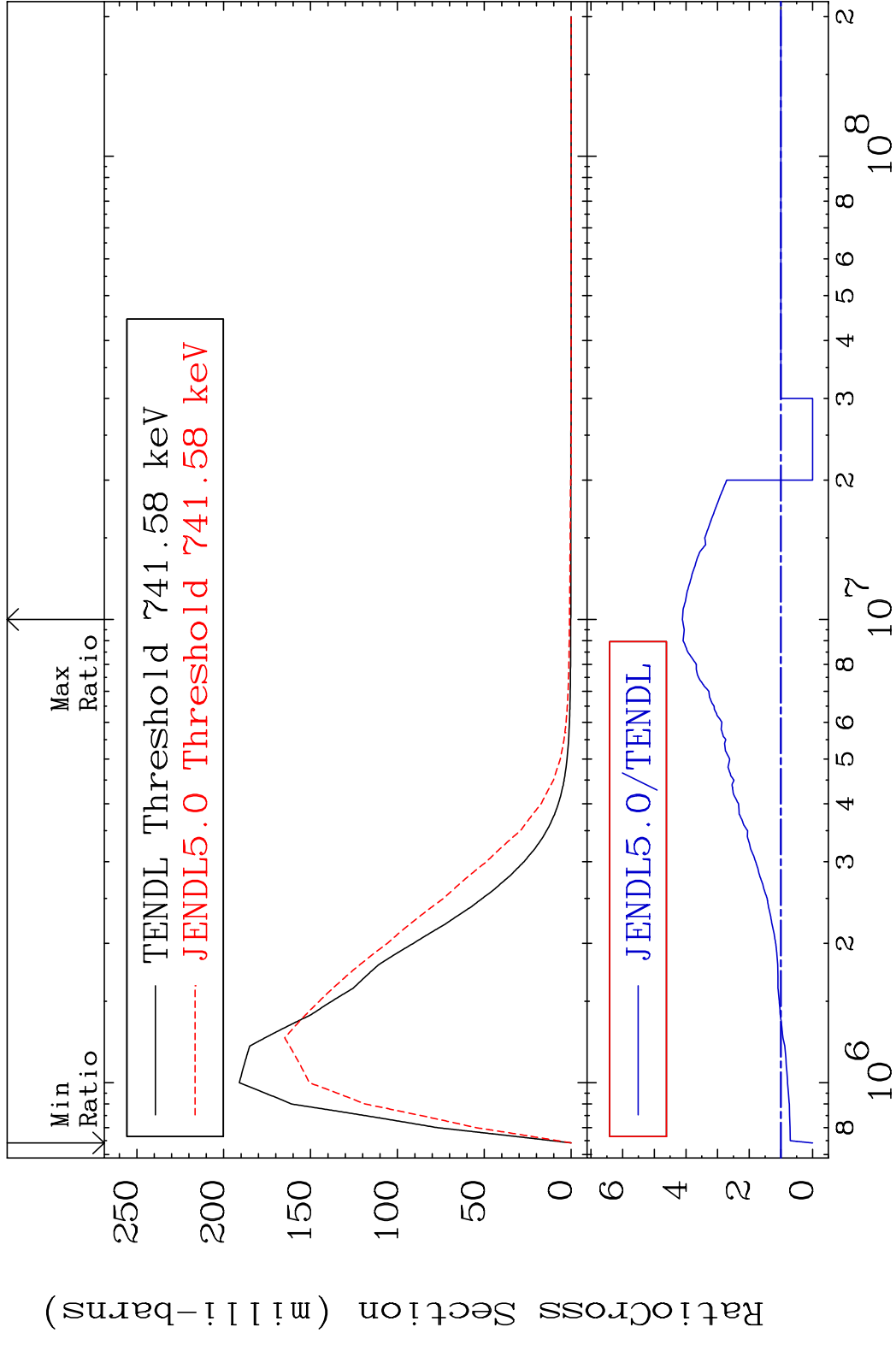
16 44-Ru-99

MAT 4434 MT= 58 (n, n') Level 44-Ru-99
 Cross Section -100.0 To 783.9 %



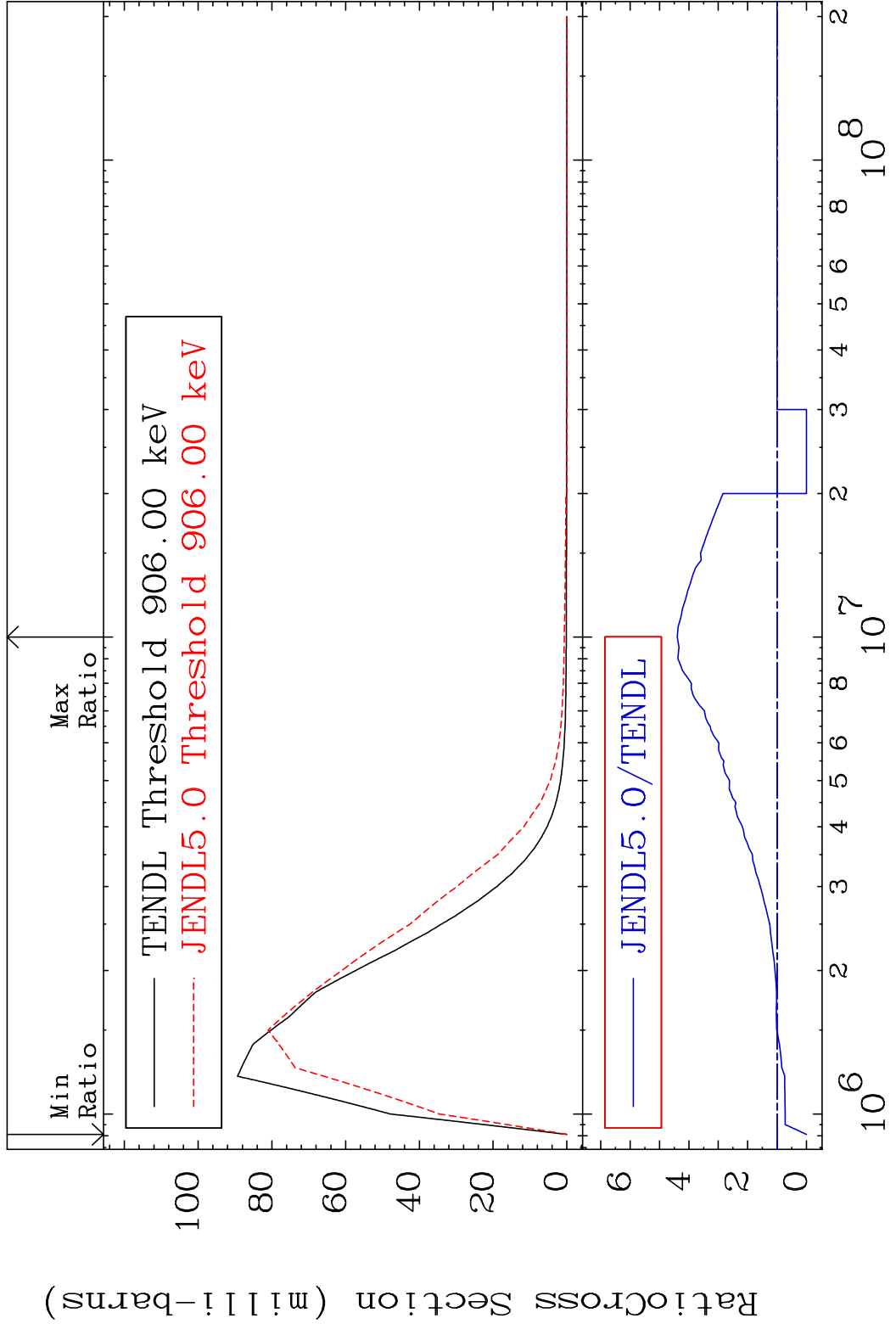
17 Incident Energy (eV) 44-Ru-99

MAT 4434 MT= 59 (n, n') Level 44-Ru-99
 Cross Section -100.0 To 311.4 %



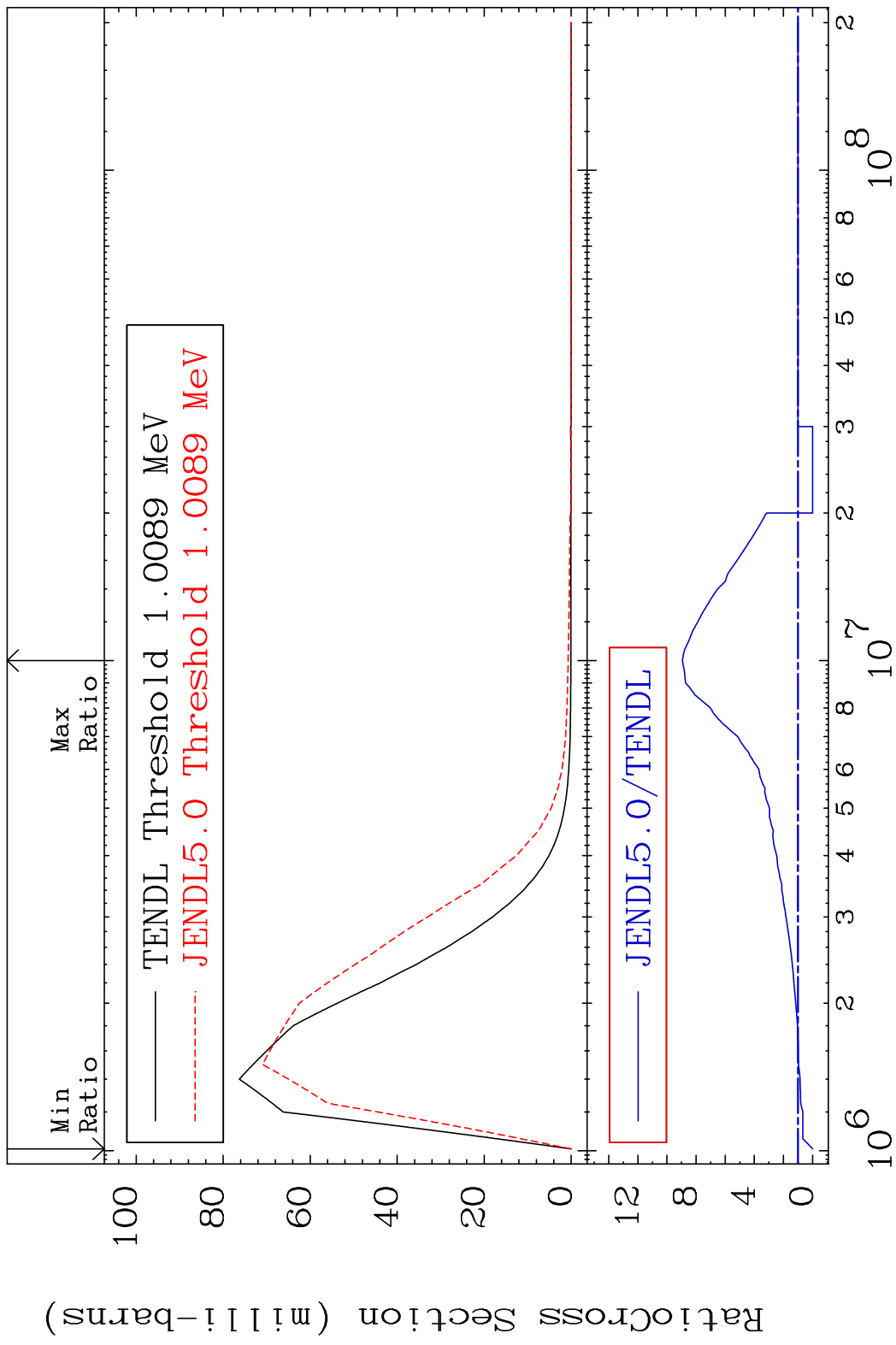
18 44-Ru-99

MAT 4434 MT= 60 (n, n') Level 44-Ru-99
 Cross Section -100.0 To 339.9 %



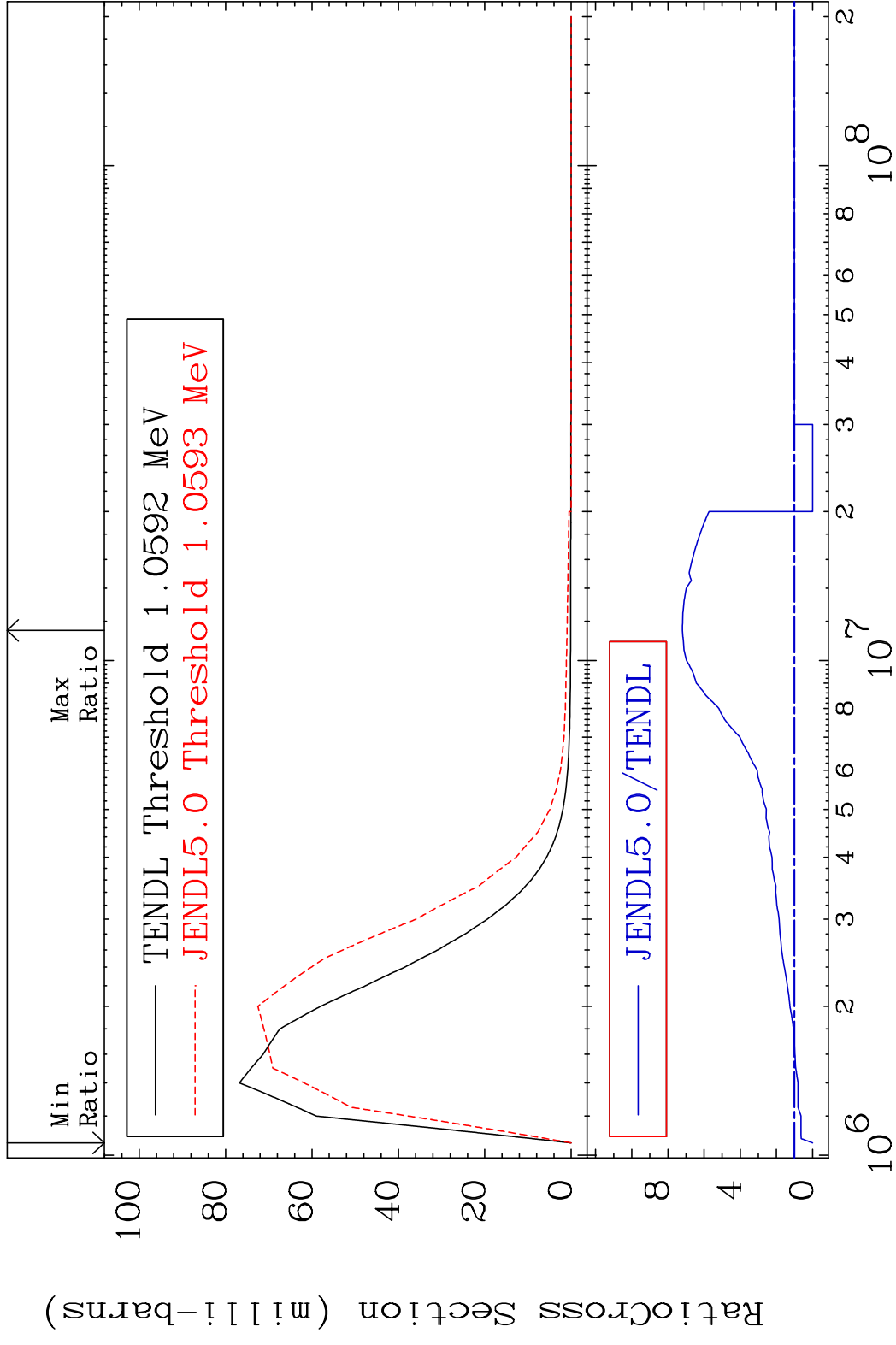
19 44-Ru-99

MAT 4434 MT= 61 (n, n') Level 44-Ru-99
 Cross Section -100.0 To 794.4 %

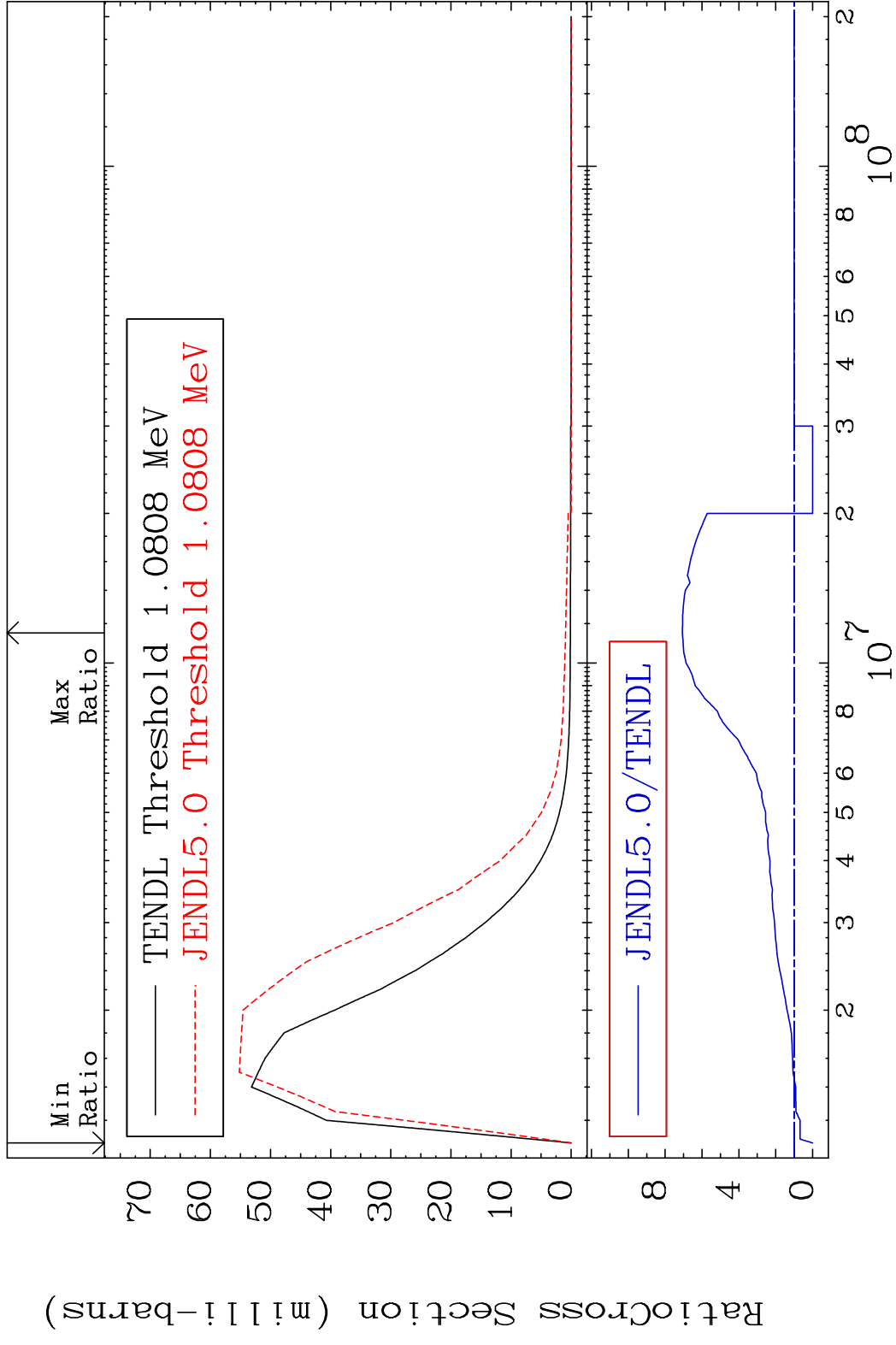


20 12 8 4 0 100 80 60 40 20 0 10⁶ 10⁷ 10⁸ 2 3 4 5 6 8

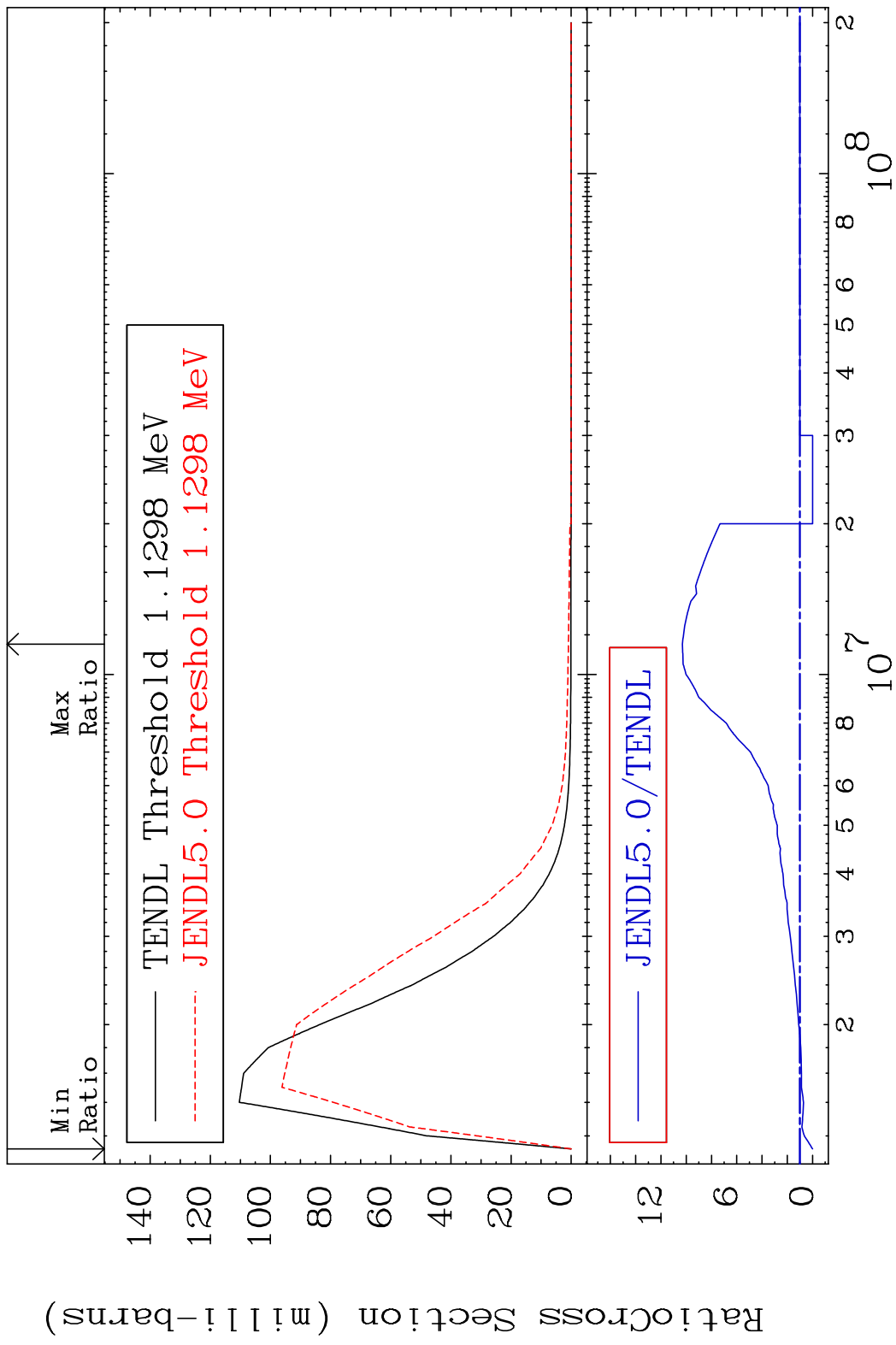
MAT 4434 MT= 62 (n, n') Level 44-Ru-99
 Cross Section -100.0 To 620.1 %



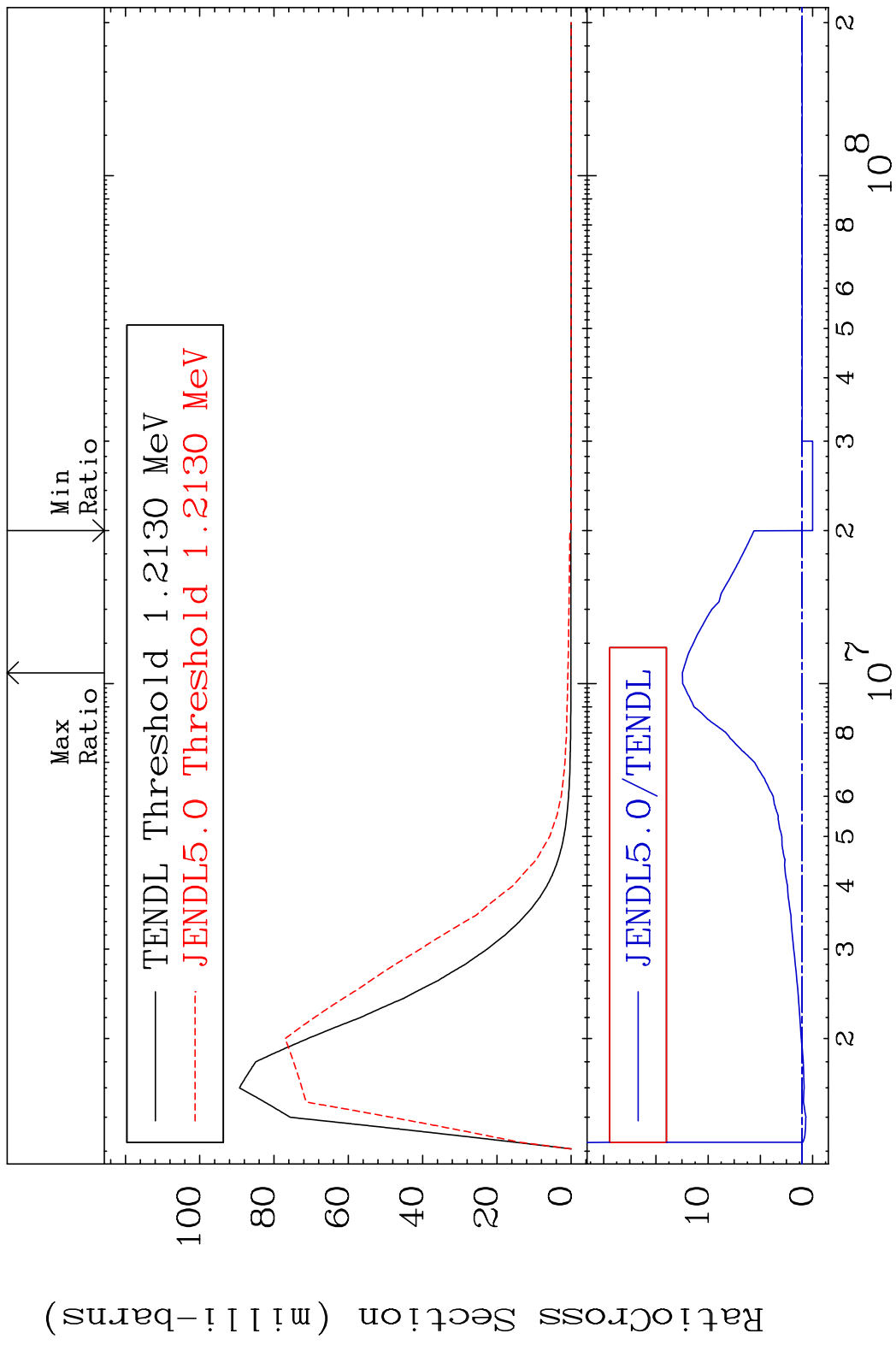
MAT 4434 MT= 63 (n, n') Level 44-Ru-99
 Cross Section -100.0 To 606.6 %



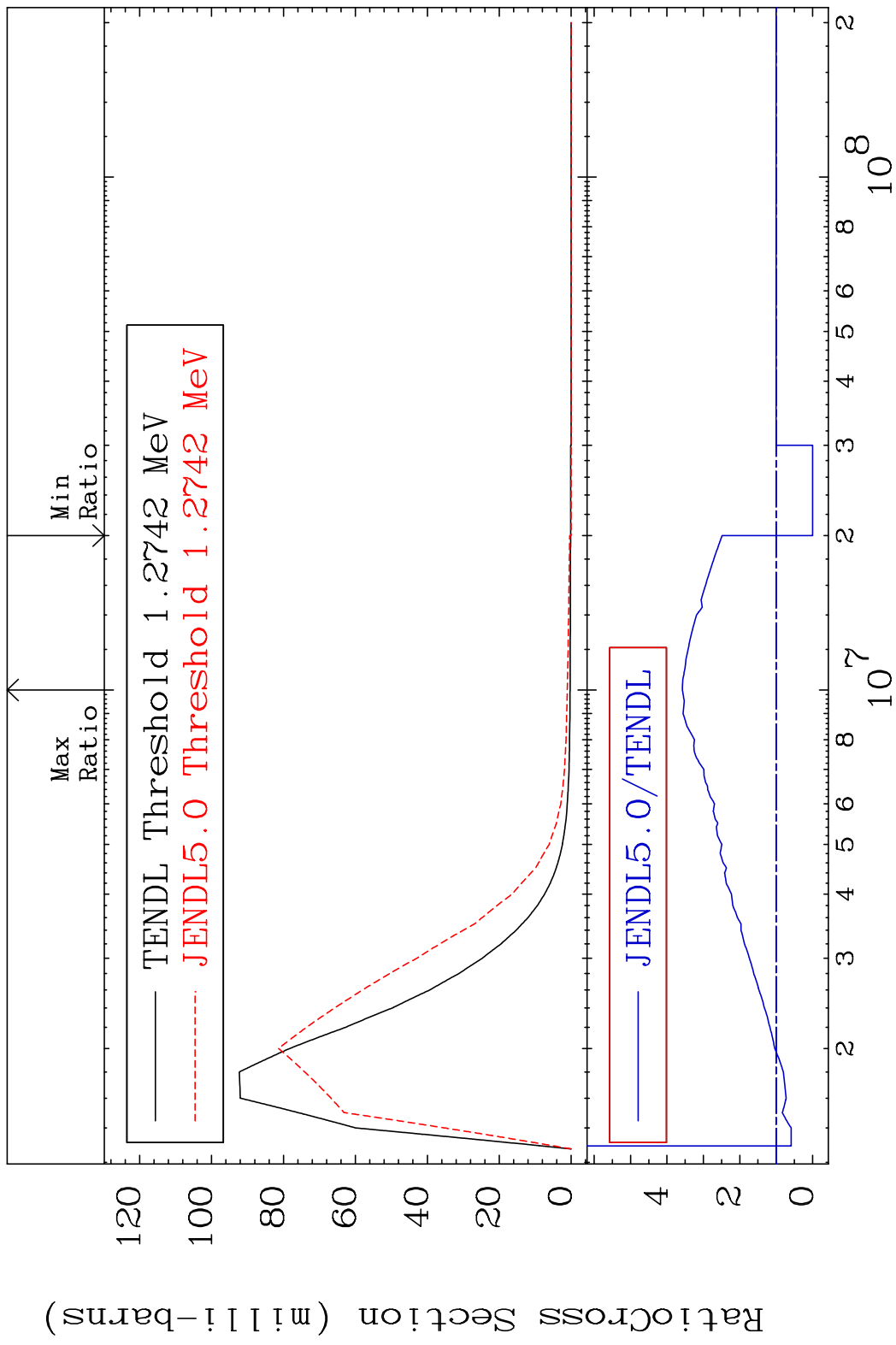
MAT 4434 MT= 64 (n, n') Level 44-Ru-99
 Cross Section -100.0 To 930.6 %



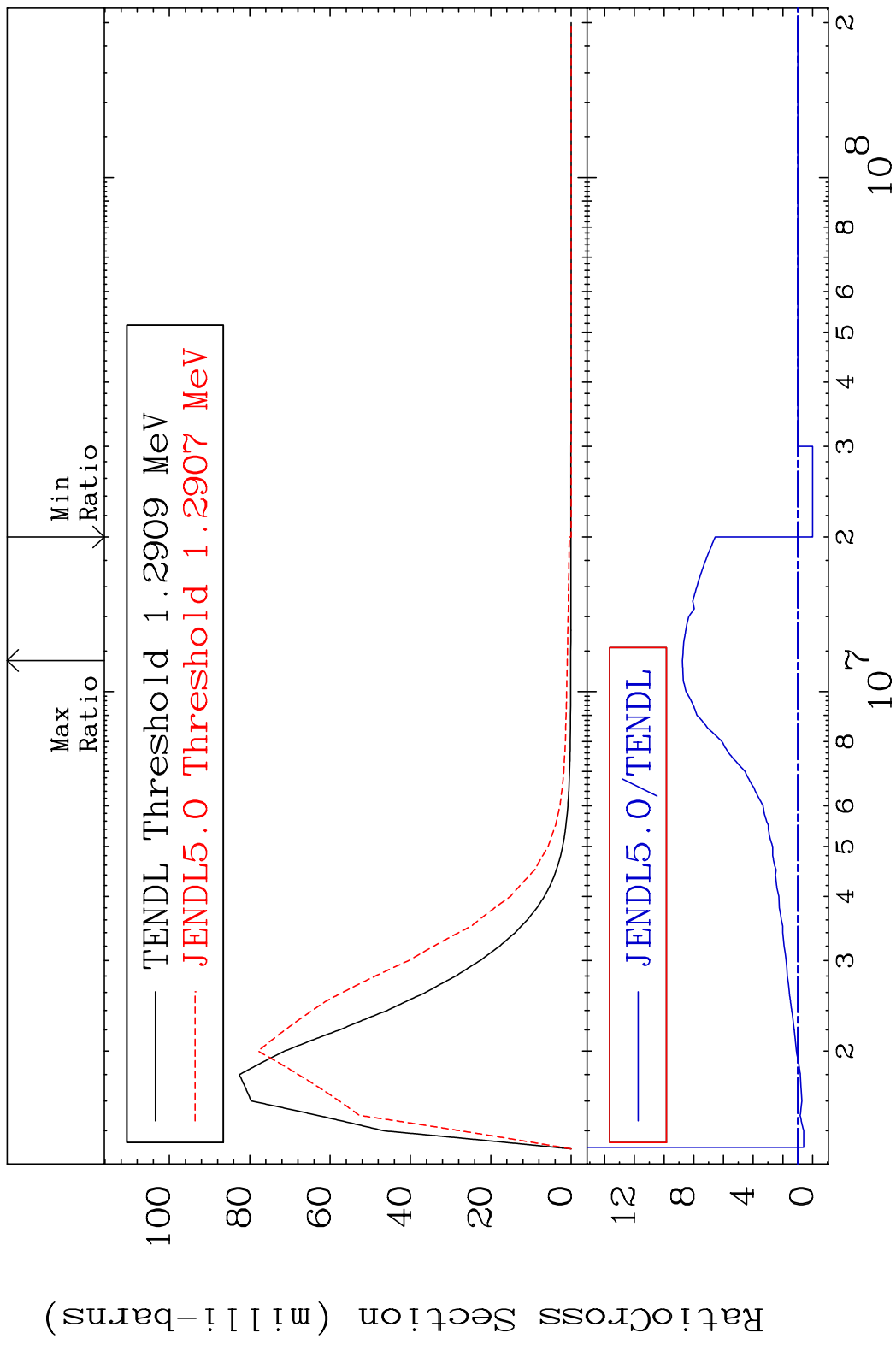
MAT 4434 MT= 65 (n, n') Level 44-Ru-99
 Cross Section -100.0 To 1147. %



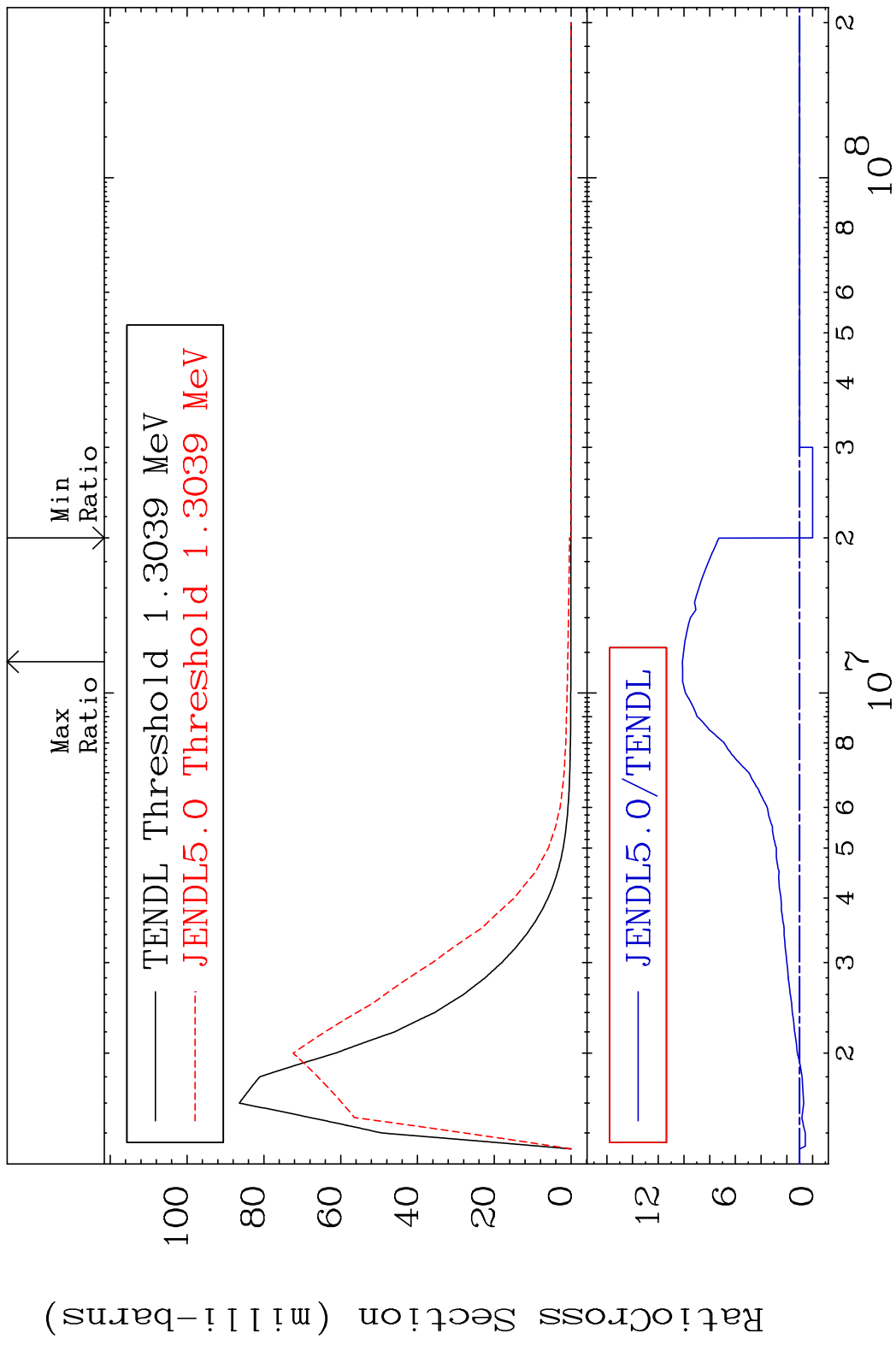
MAT 4434 MT= 66 (n, n') Level 44-Ru-99
 Cross Section -100.0 To 257.8 %



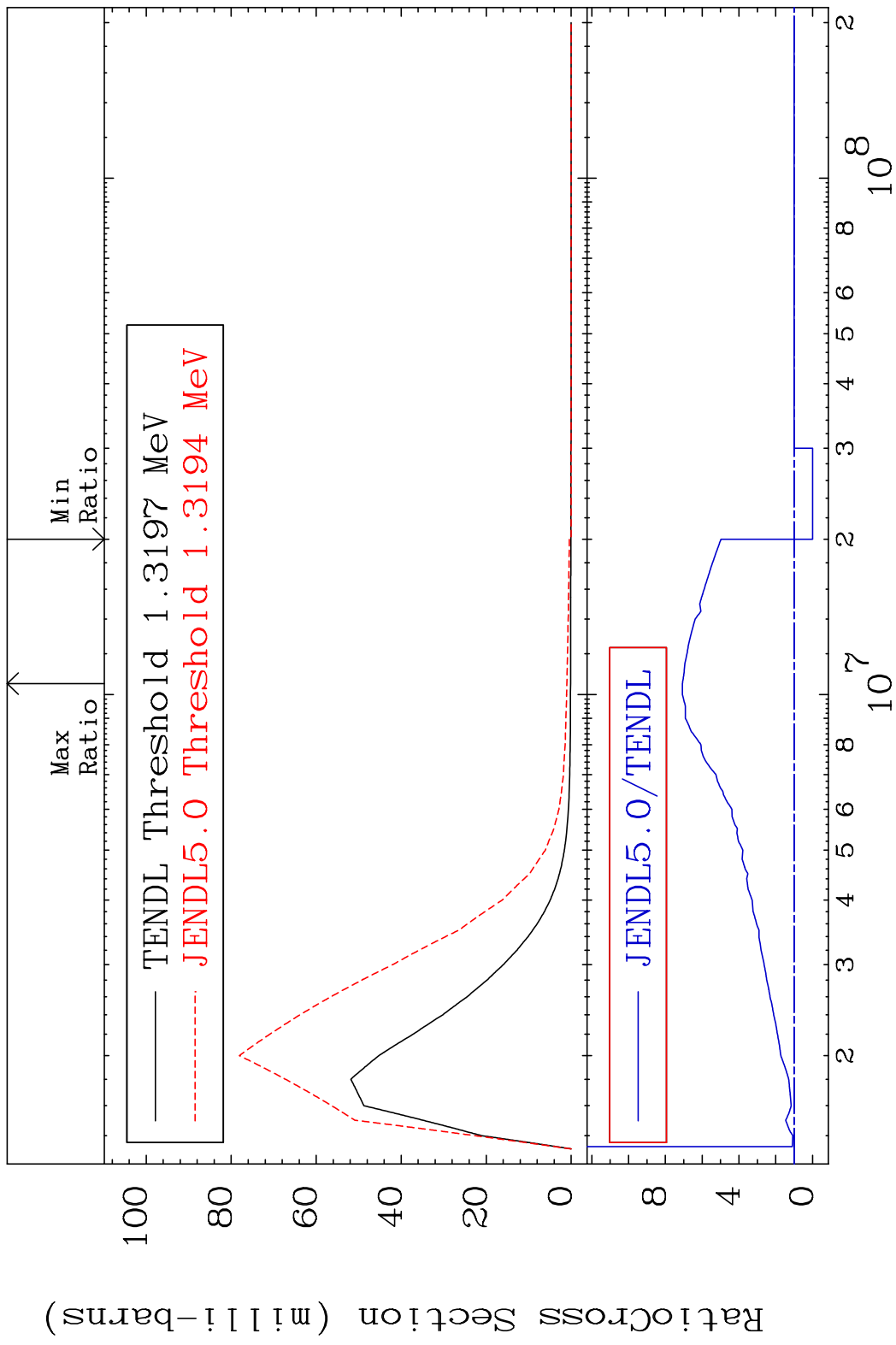
MAT 4434 MT= 67 (n, n') Level 44-Ru-99
 Cross Section -100.0 To 776.9 %



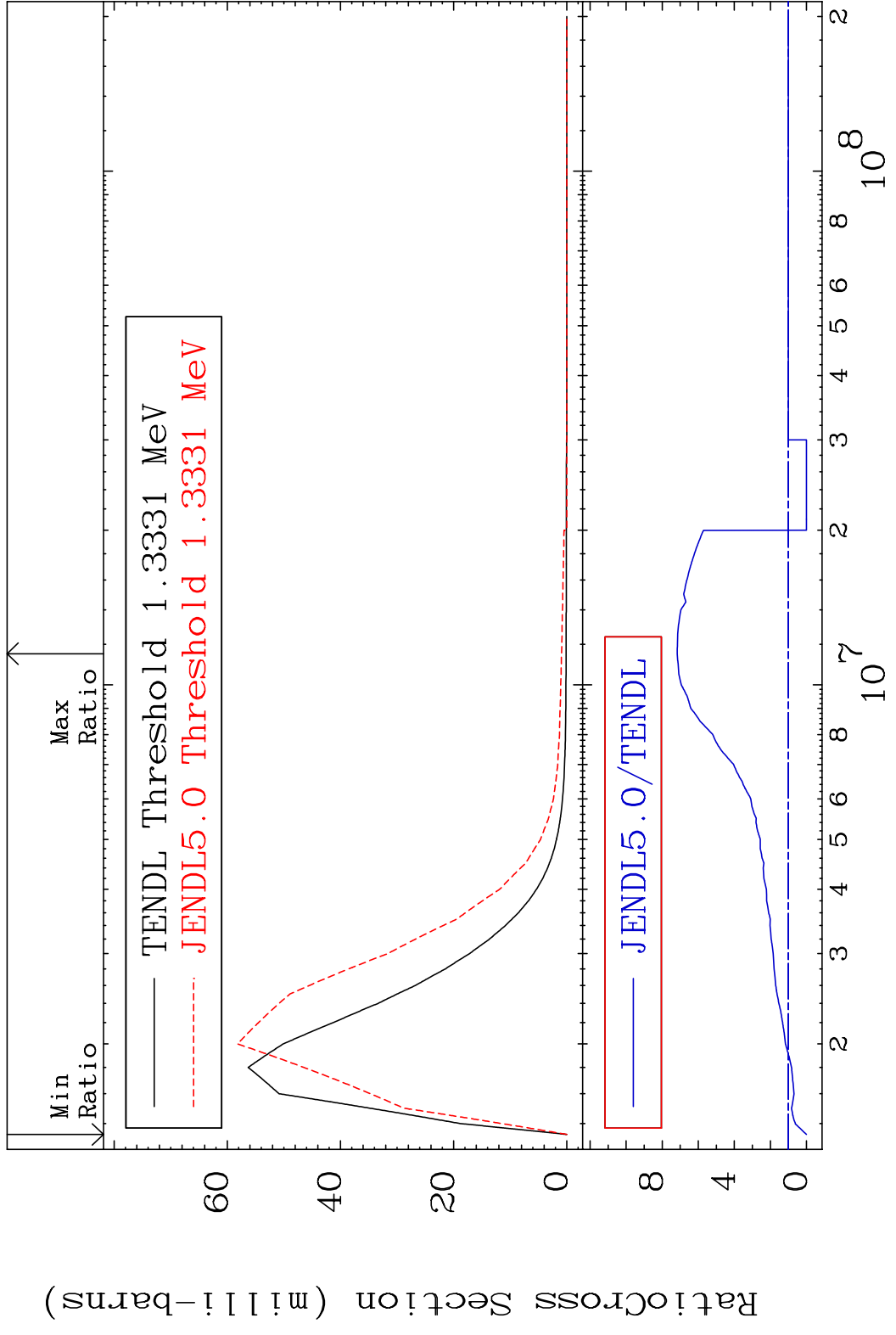
MAT 4434 MT= 68 (n, n') Level 44-Ru-99
 Cross Section -100.0 To 912.6 %



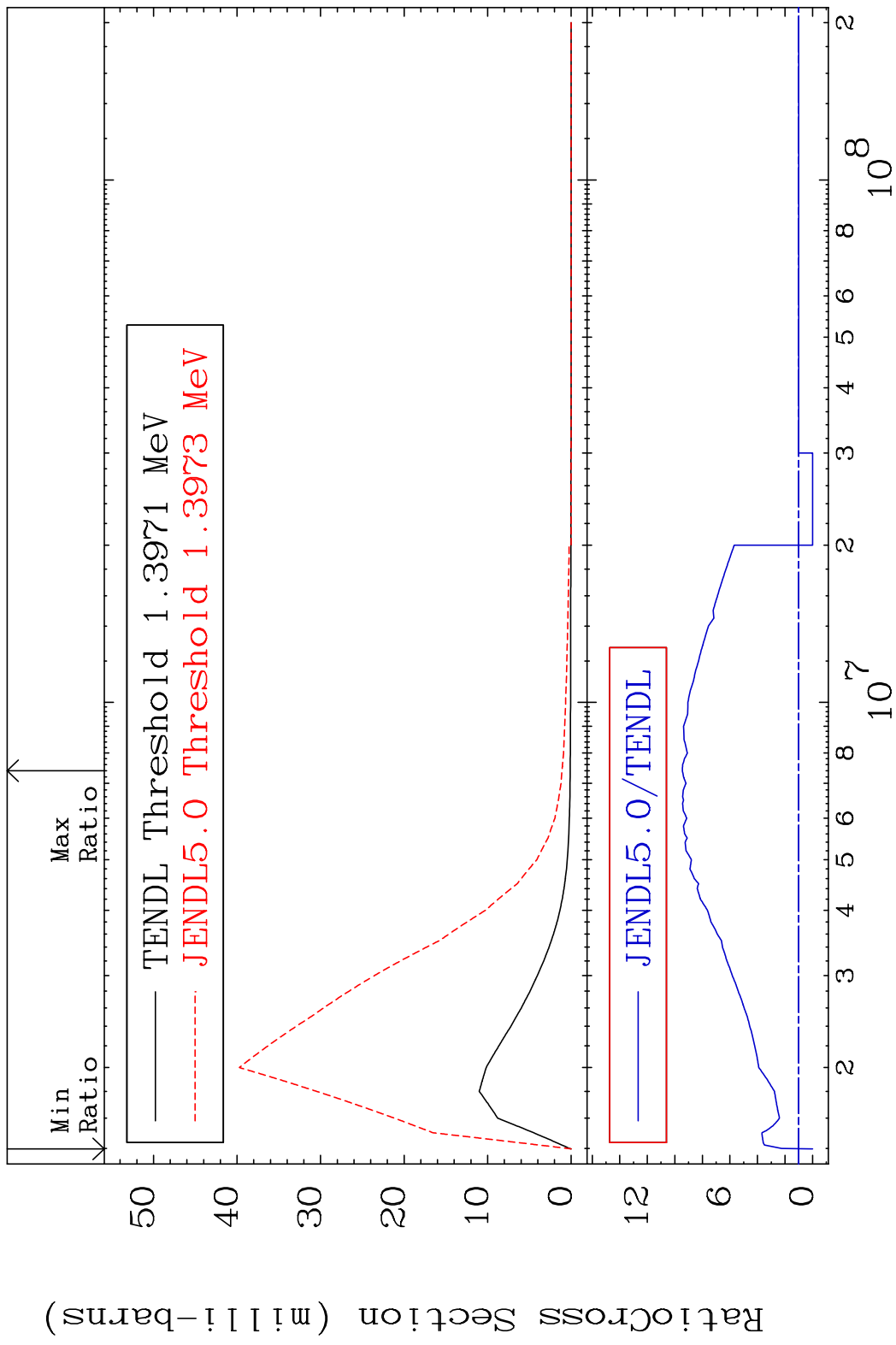
MAT 4434 MT= 69 (n, n') Level 44-Ru-99
 Cross Section -100.0 To 607.7 %



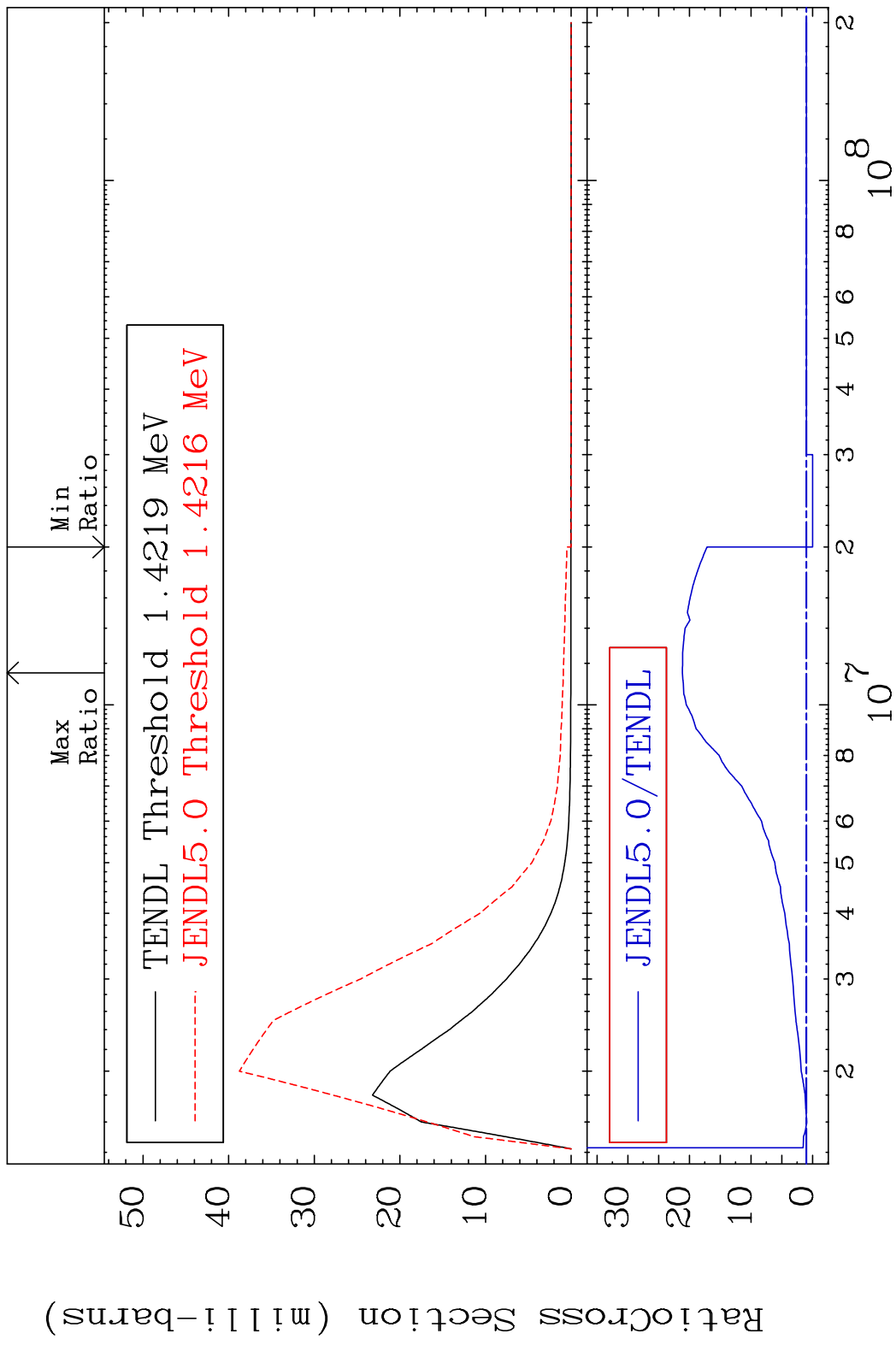
MAT 4434 MT= 70 (n, n') Level 44-Ru-99
 Cross Section -100.0 To 617.0 %



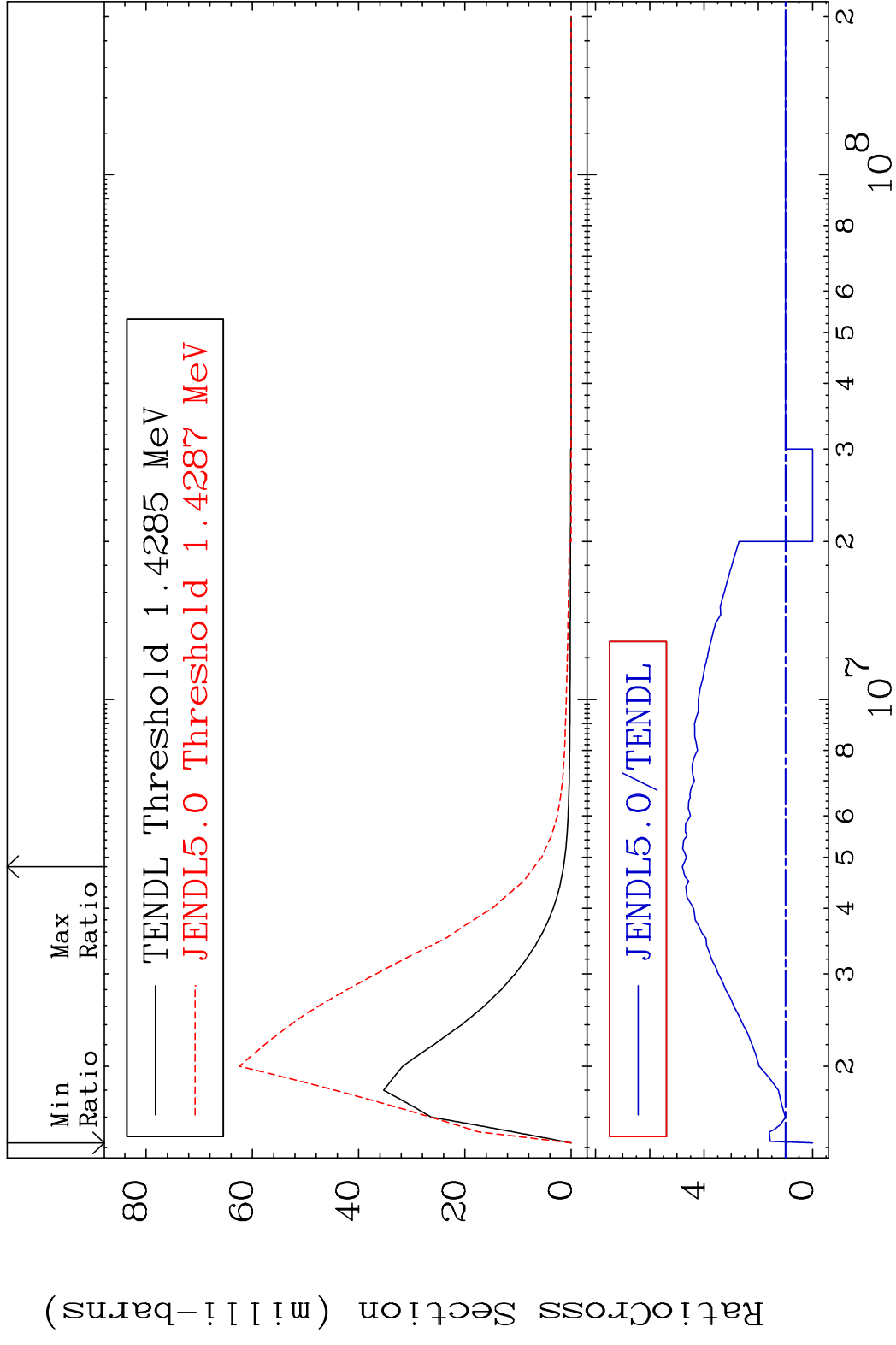
MAT 4434 MT= 71 (n, n') Level 44-Ru-99
 Cross Section -100.0 To 845.4 %



MAT 4434 MT= 72 (n, n') Level 44-Ru-99
 Cross Section -100.0 To 2014. %

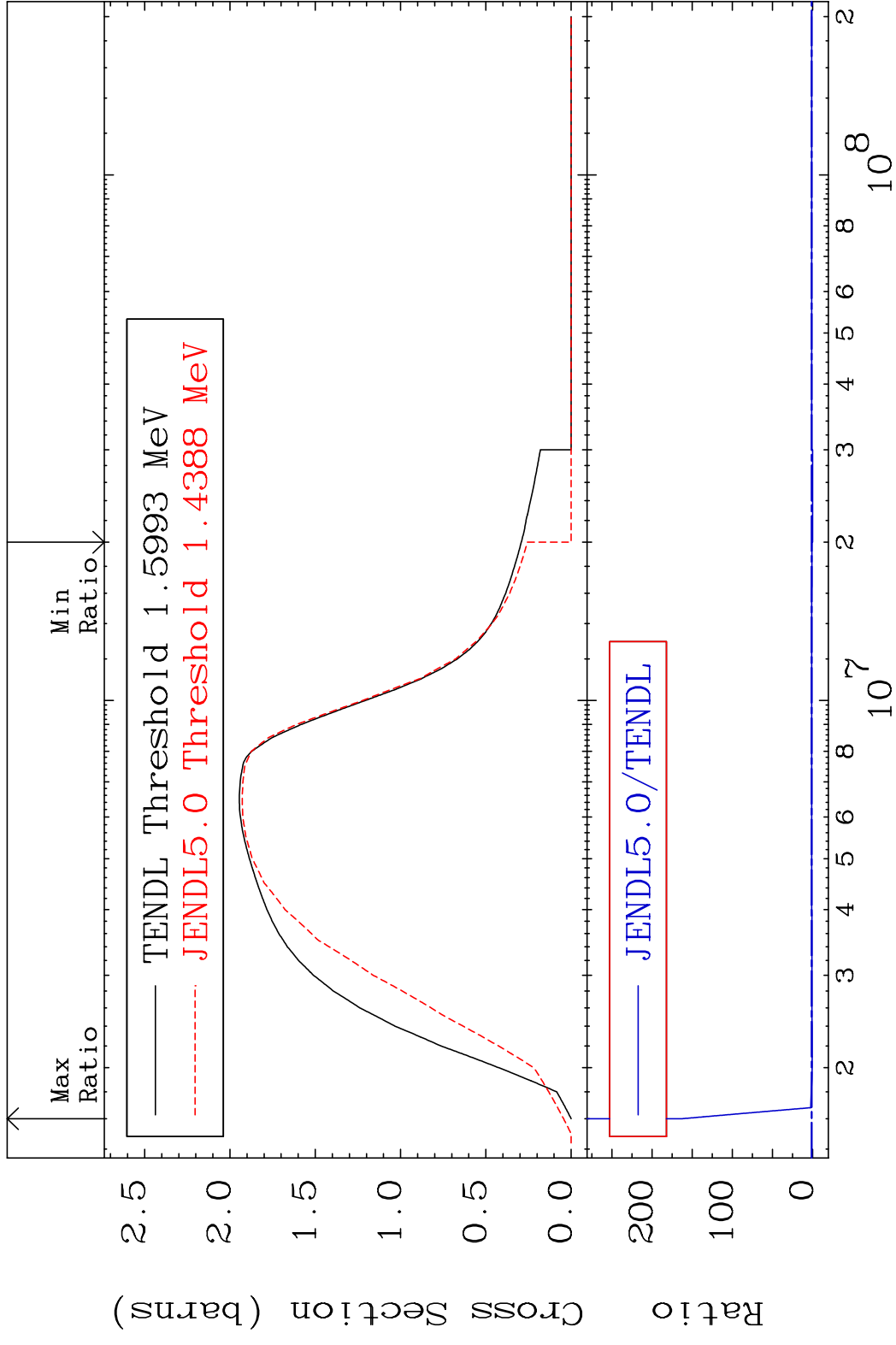


MAT 4434 MT= 73 (n, n') Level 44-Ru-99
 Cross Section -100.0 To 380.1 %



32 Incident Energy (eV) 44-Ru-99

MAT 4434 (n, n') Continuum 44-Ru-99
 Cross Section -100.0 To 9999. %

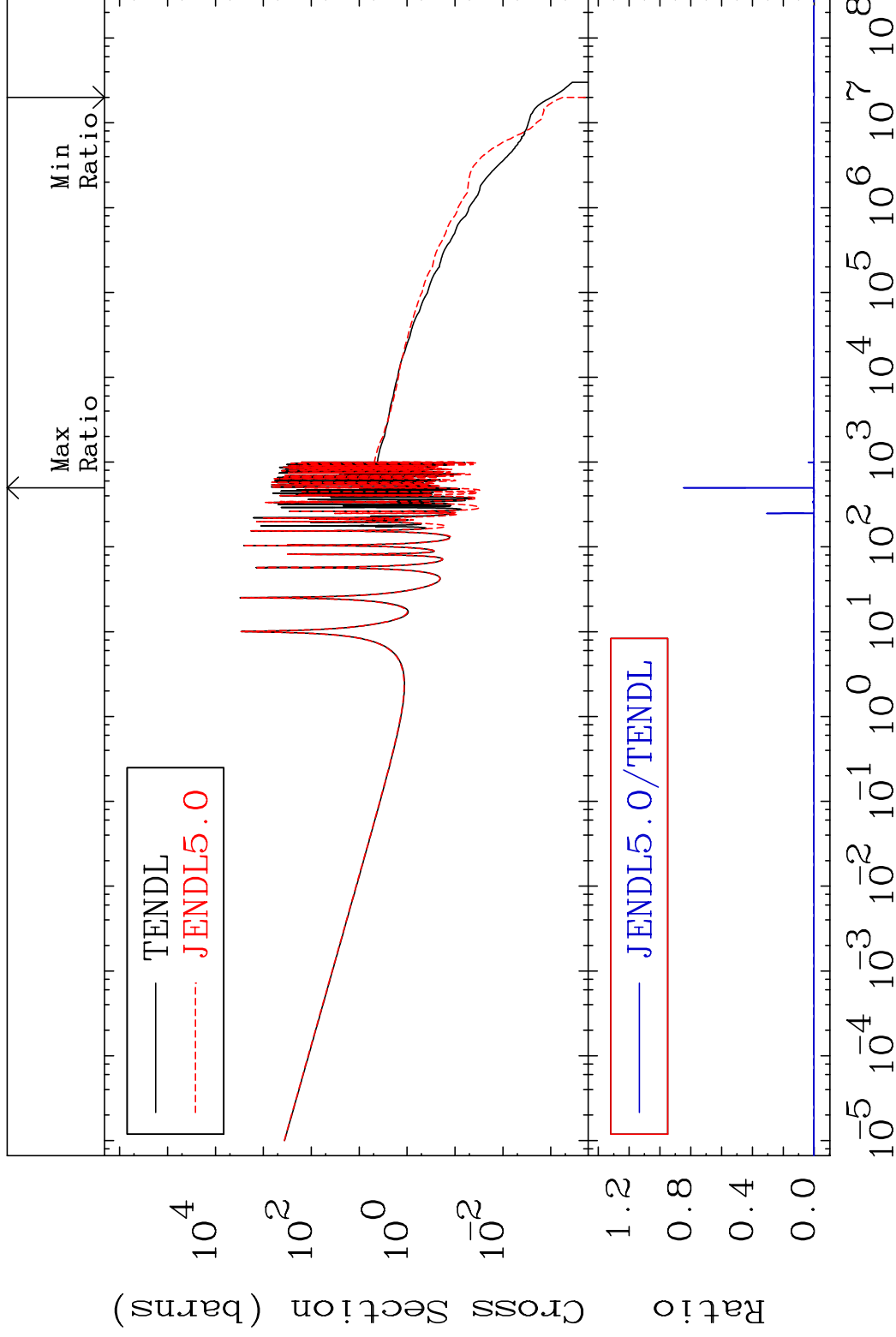


MAT 4434

(n, γ)

44-Ru-99

Cross Section -100.0 To 9999. %



34

Incident Energy (eV)

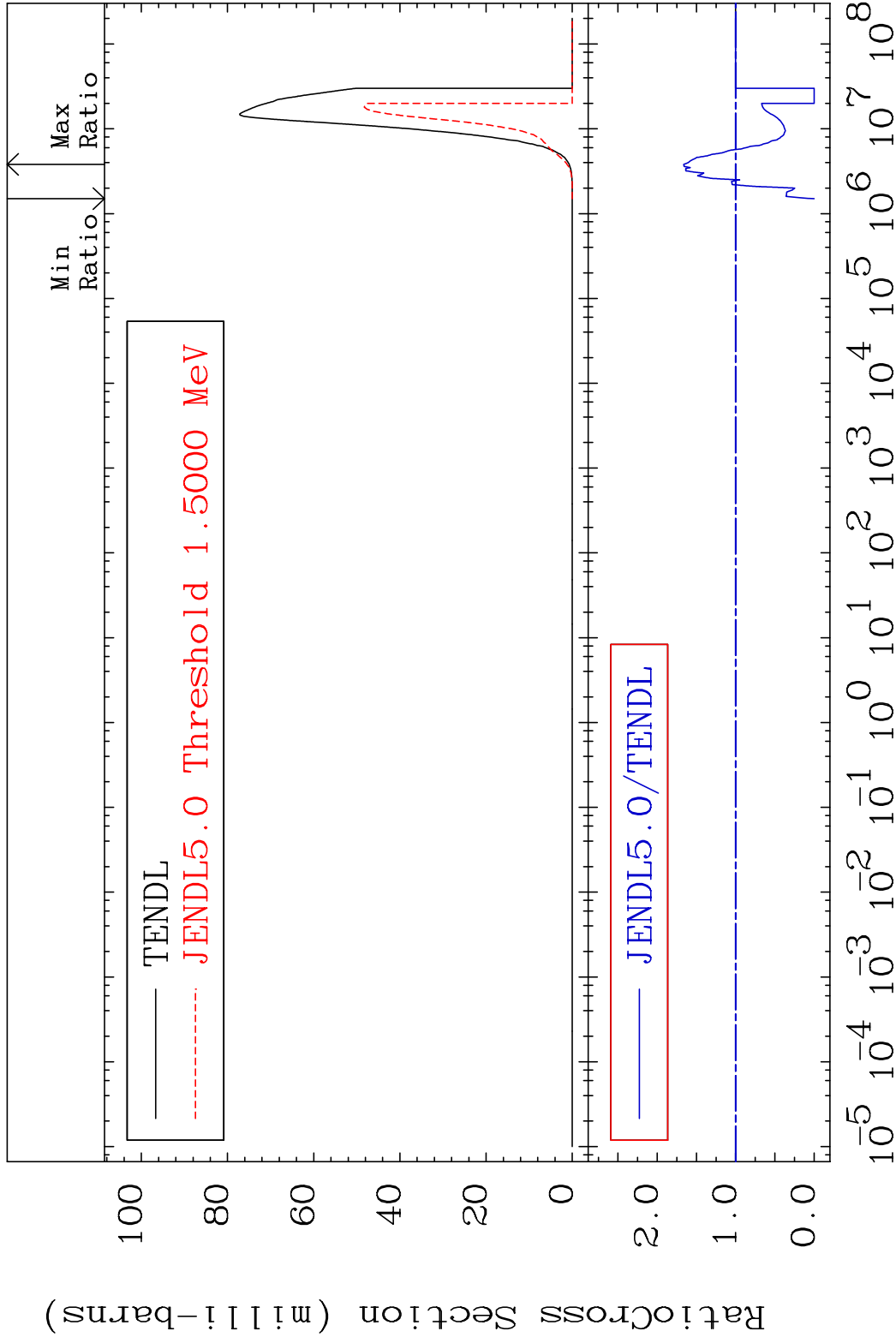
44-Ru-99

MAT 4434

(n, p)

44-Ru-99

Cross Section -100.0 To 66.30 %

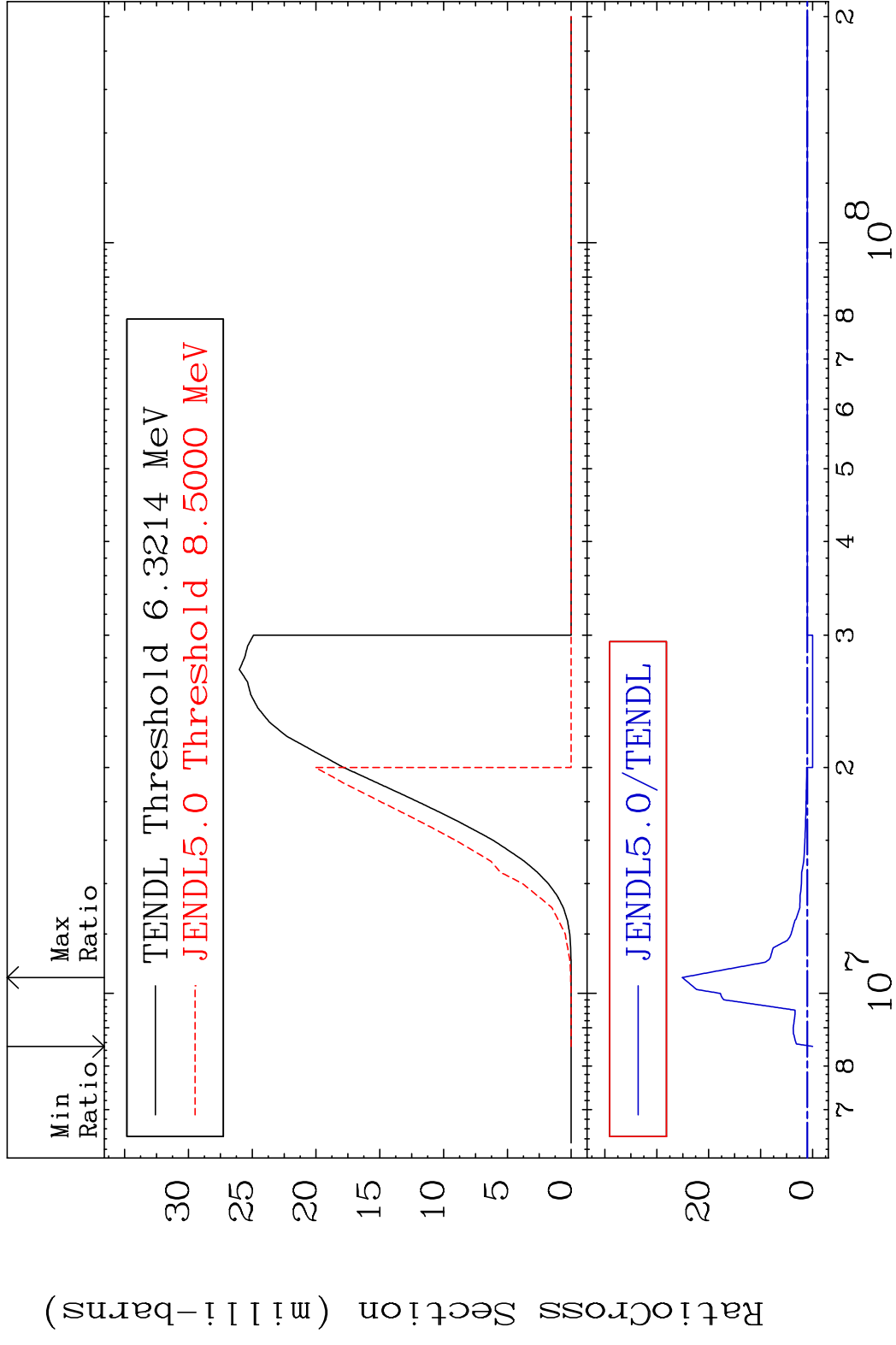


35

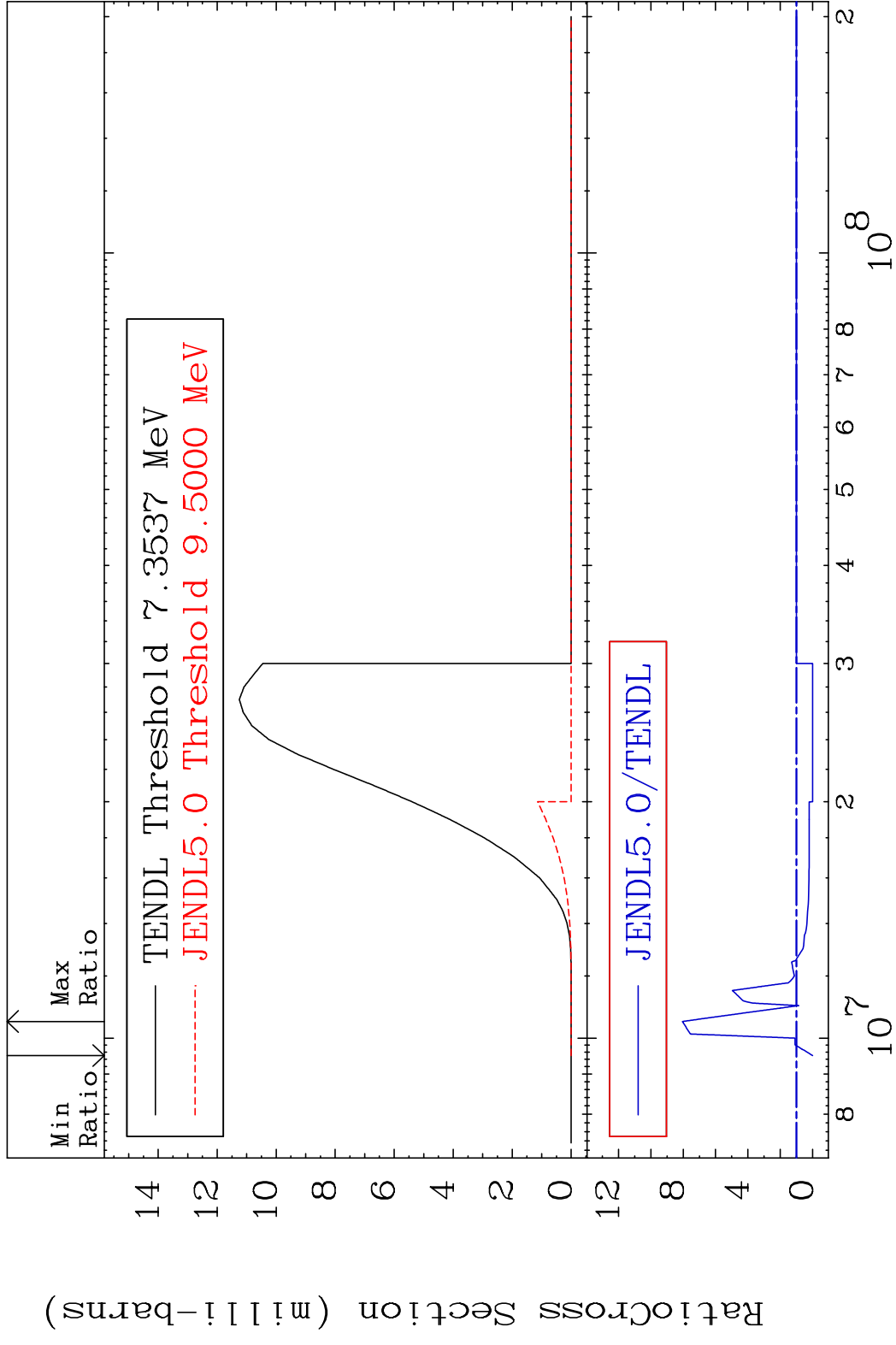
Incident Energy (eV)

44-Ru-99

MAT 4434 (n,d) 44-Ru-99
 Cross Section -100.0 To 2407. %



MAT 4434 (n, t) 44-Ru-99
 Cross Section -100.0 To 705.5 %

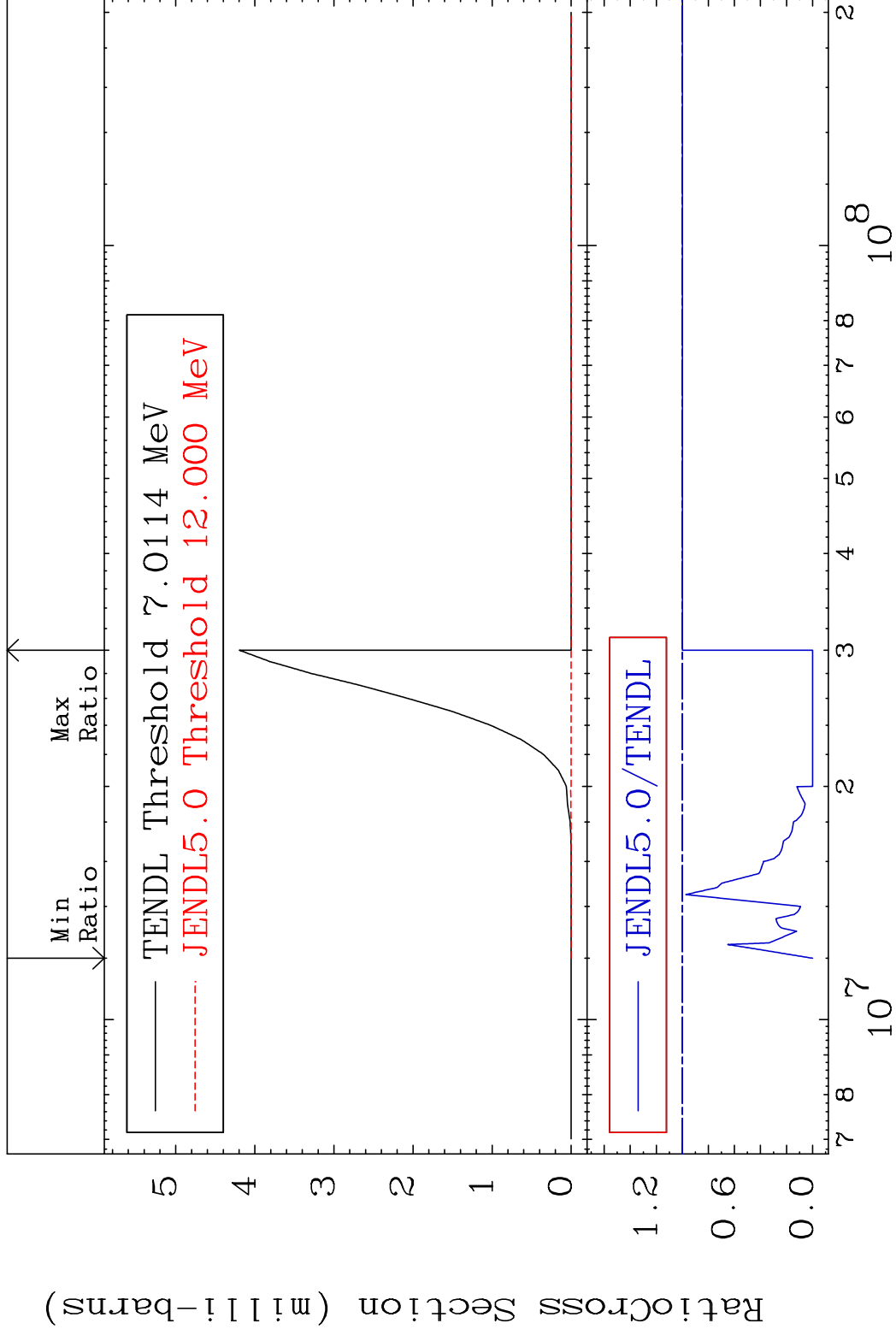


MAT 4434

(n, He-3)

44-Ru-99

Cross Section -100.0 To 0.000 %



38

Incident Energy (eV)

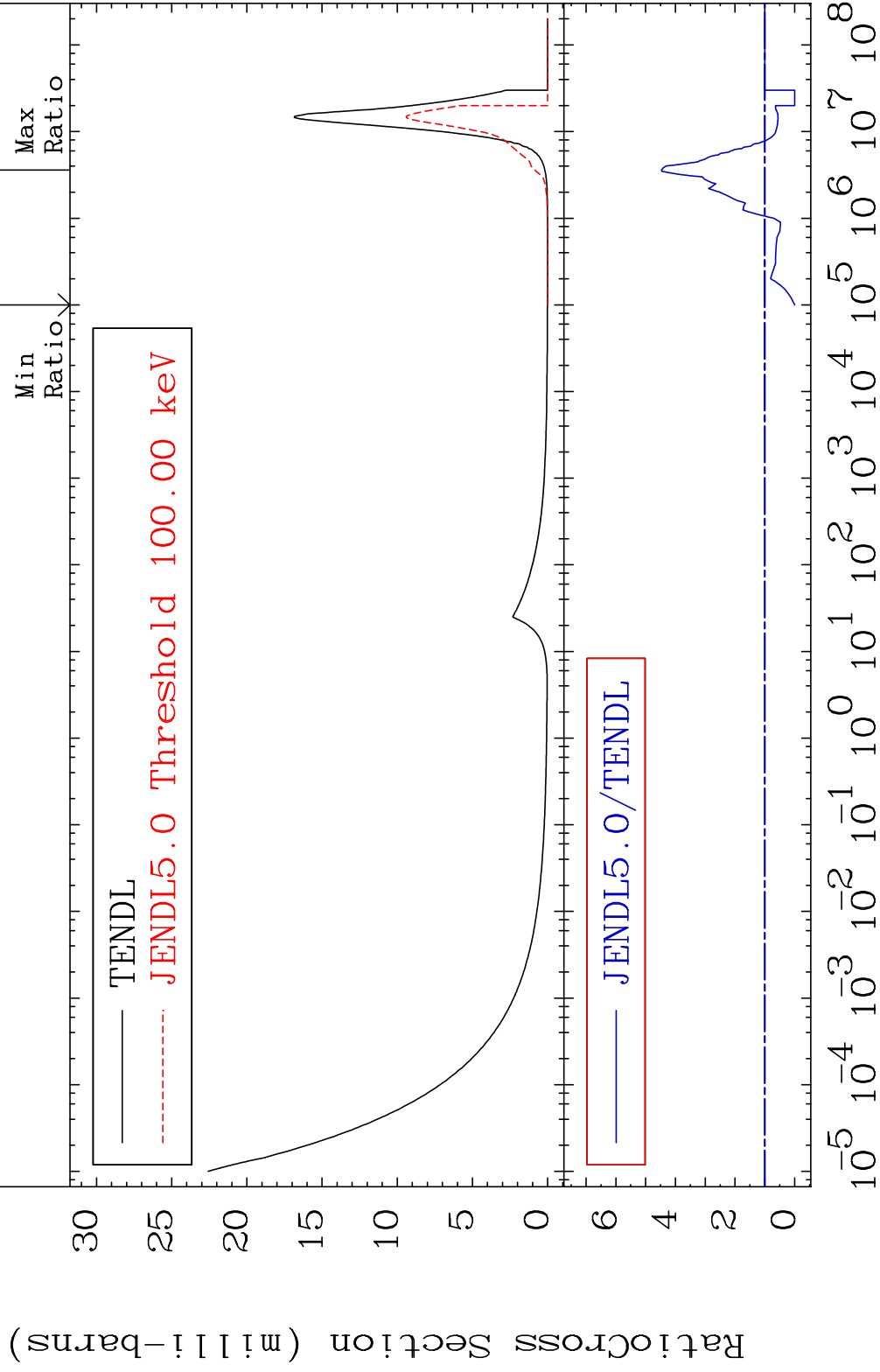
44-Ru-99

MAT 4434

(n, α)

44-Ru-99

Cross Section -100.0 To 347.1 %



39

Incident Energy (eV)

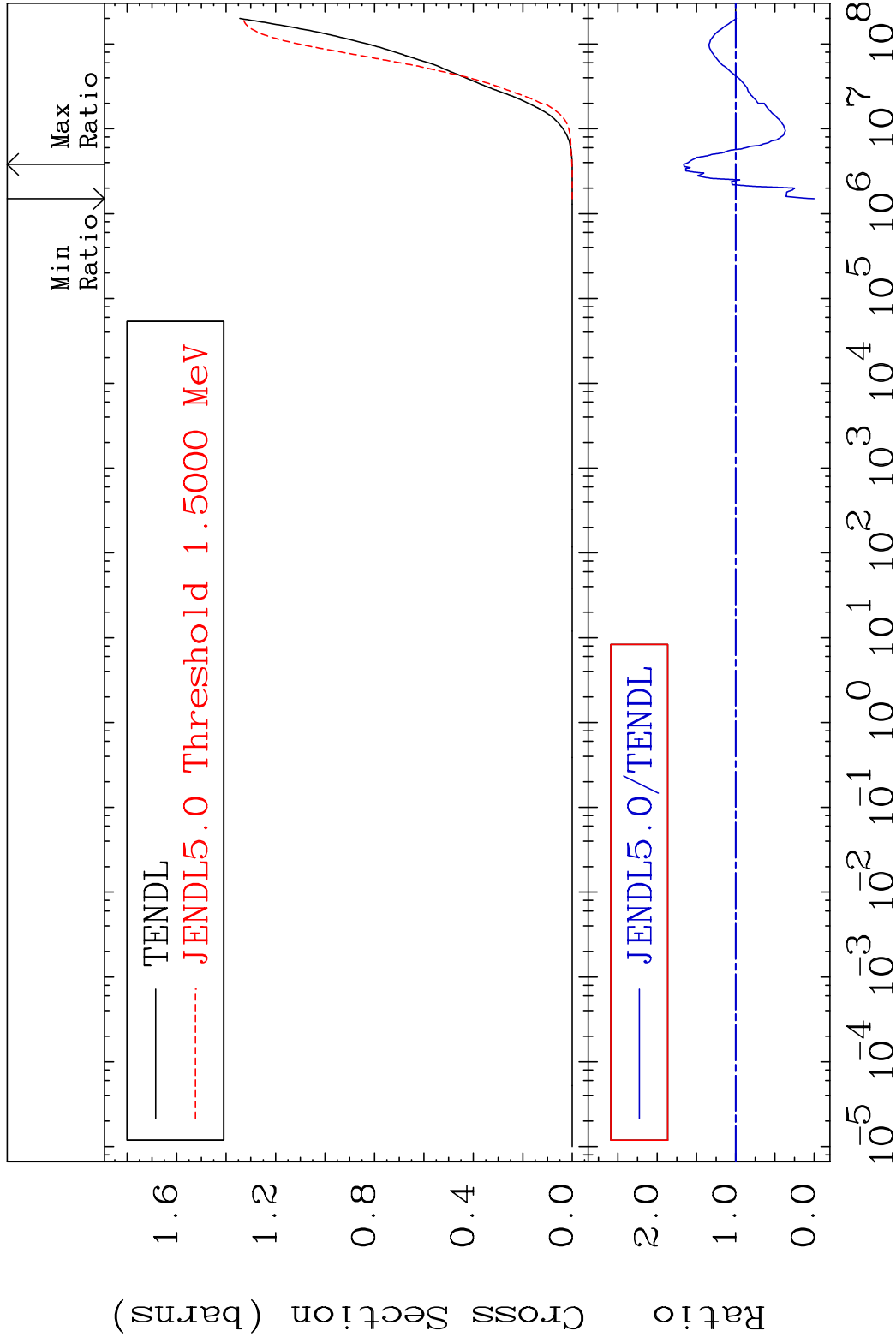
44-Ru-99

MAT 4434

Hydrogen Production

44-Ru-99

Cross Section -100.0 To 66.30 %

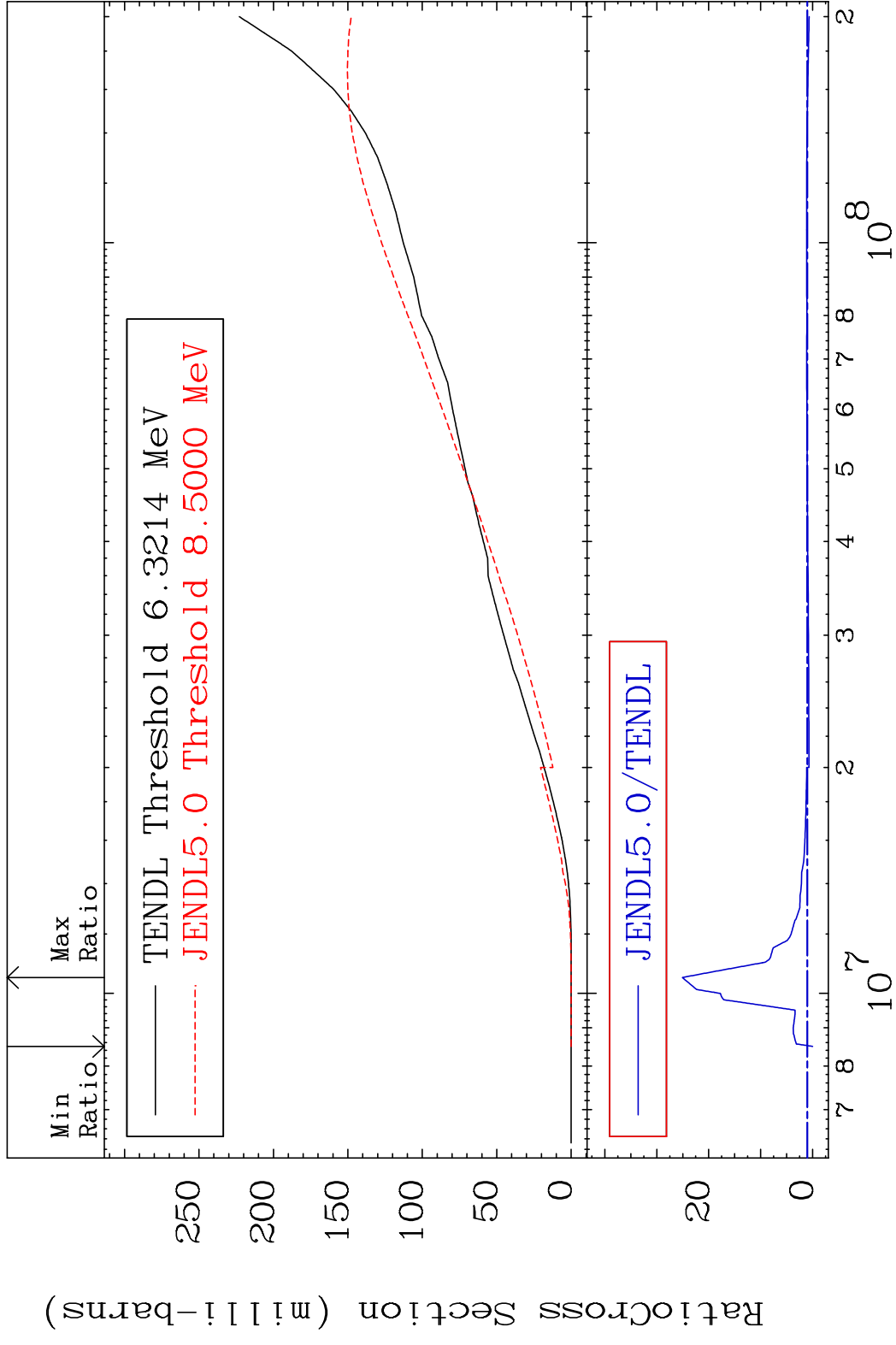


40

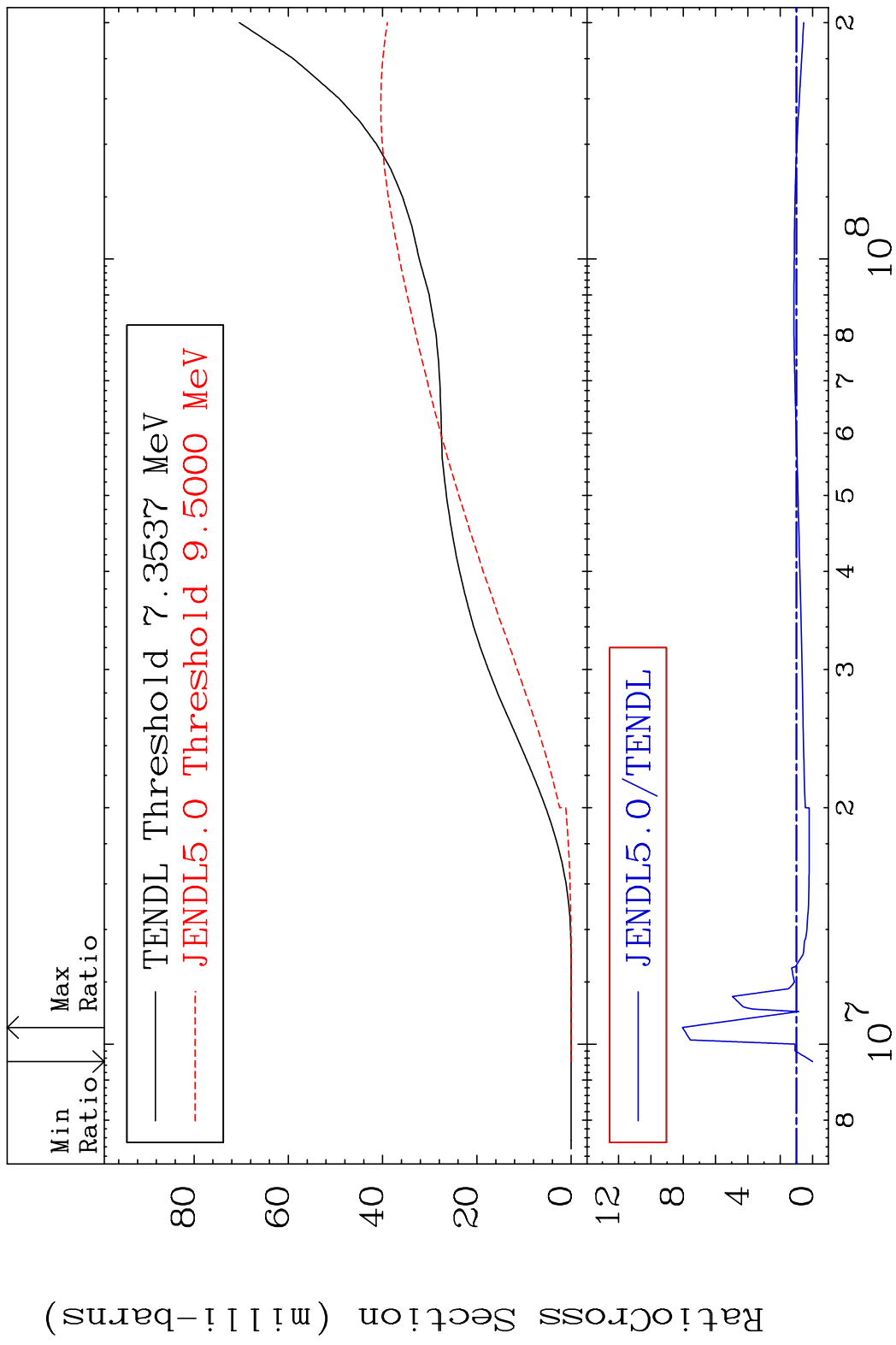
Incident Energy (eV)

44-Ru-99

MAT 4434 Deuterium Production 44-Ru-99
 Cross Section -100.0 To 2407. %



MAT 4434 Tritium Production 44-Ru-99
 Cross Section -100.0 To 705.5 %



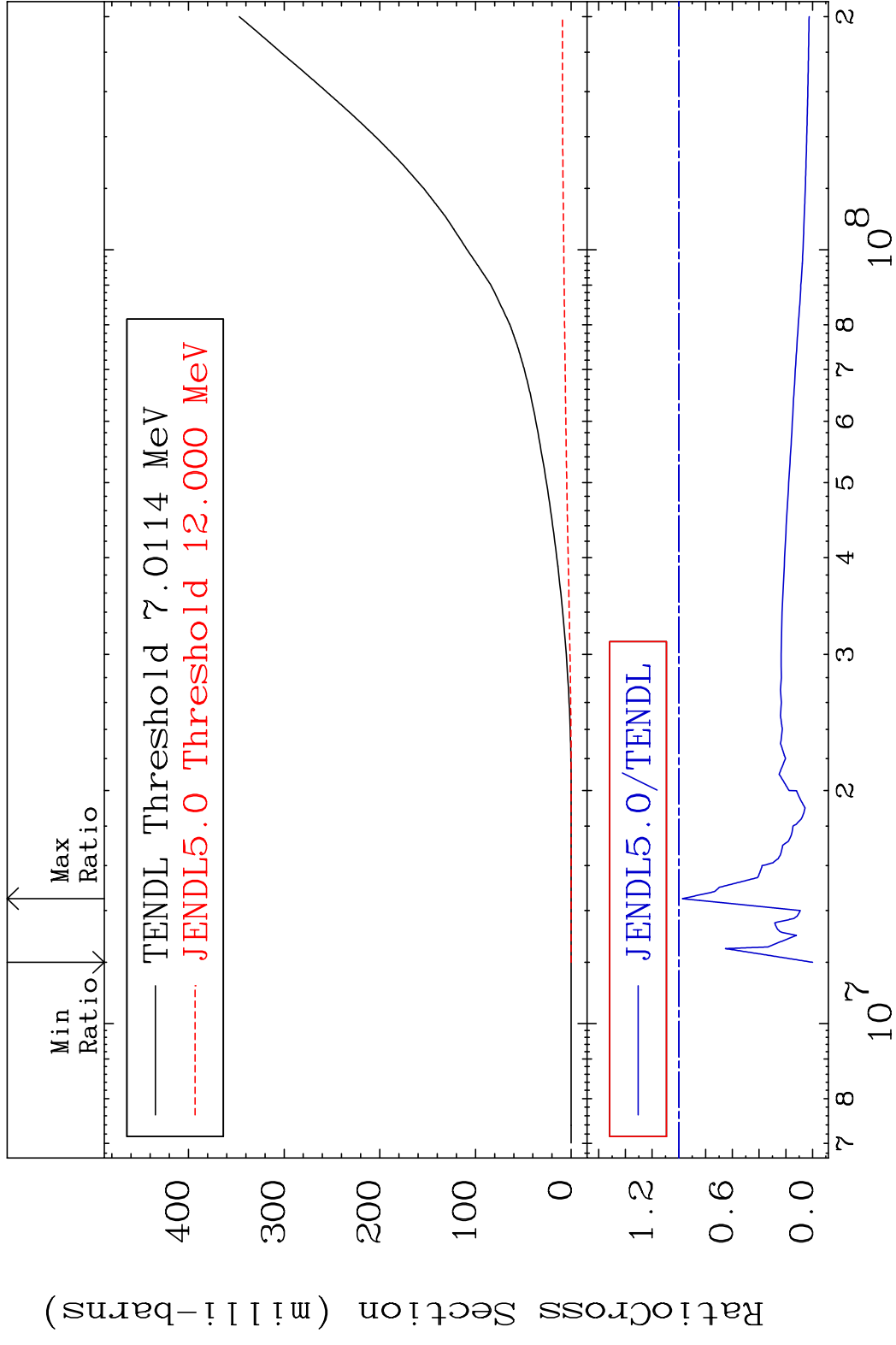
42 44-Ru-99

MAT 4434

He-3 Production

44-Ru-99

Cross Section -100.0 To -2.584%



43

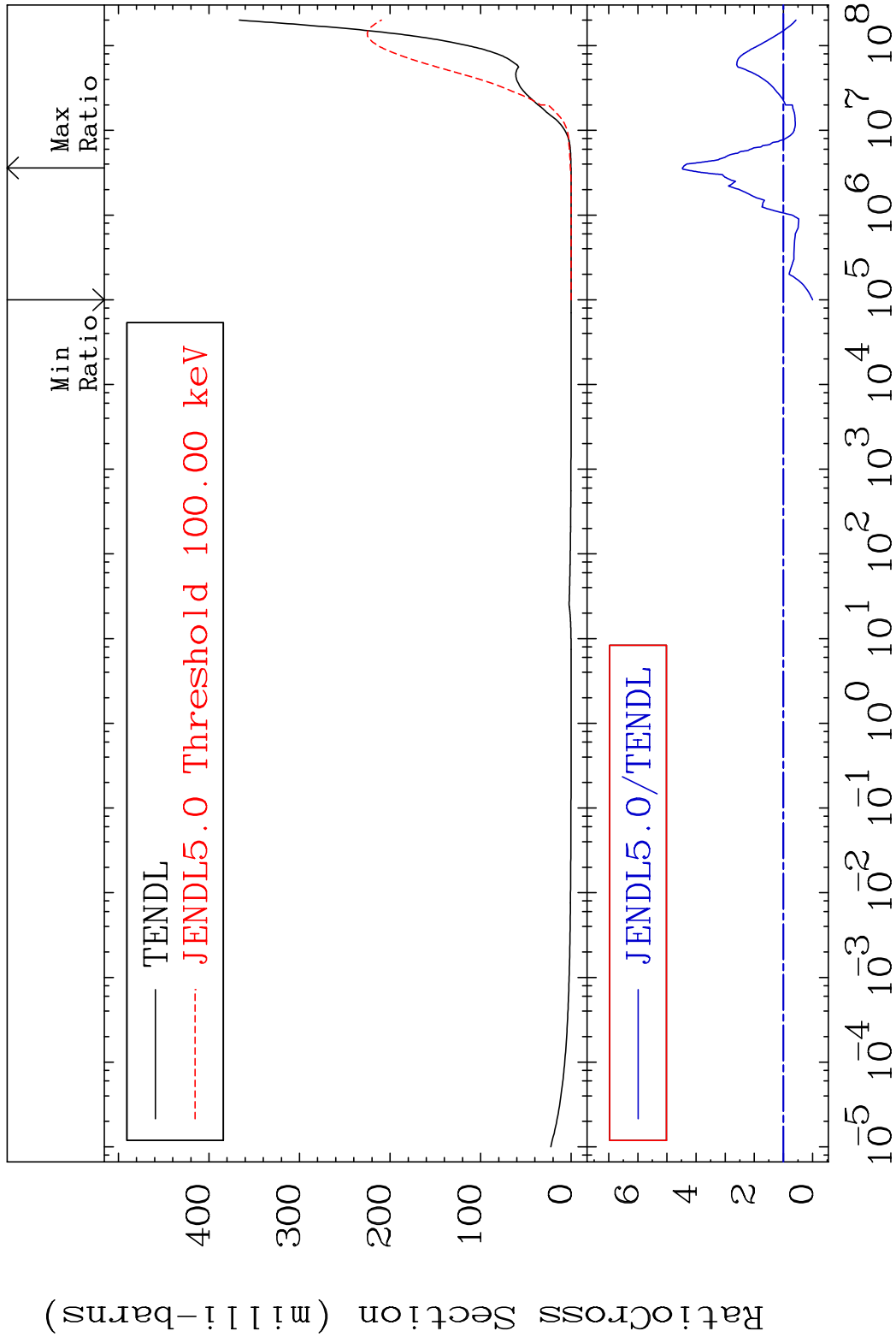
44-Ru-99

MAT 4434

He-4 Production

44-Ru-99

Cross Section -100.0 To 347.1 %

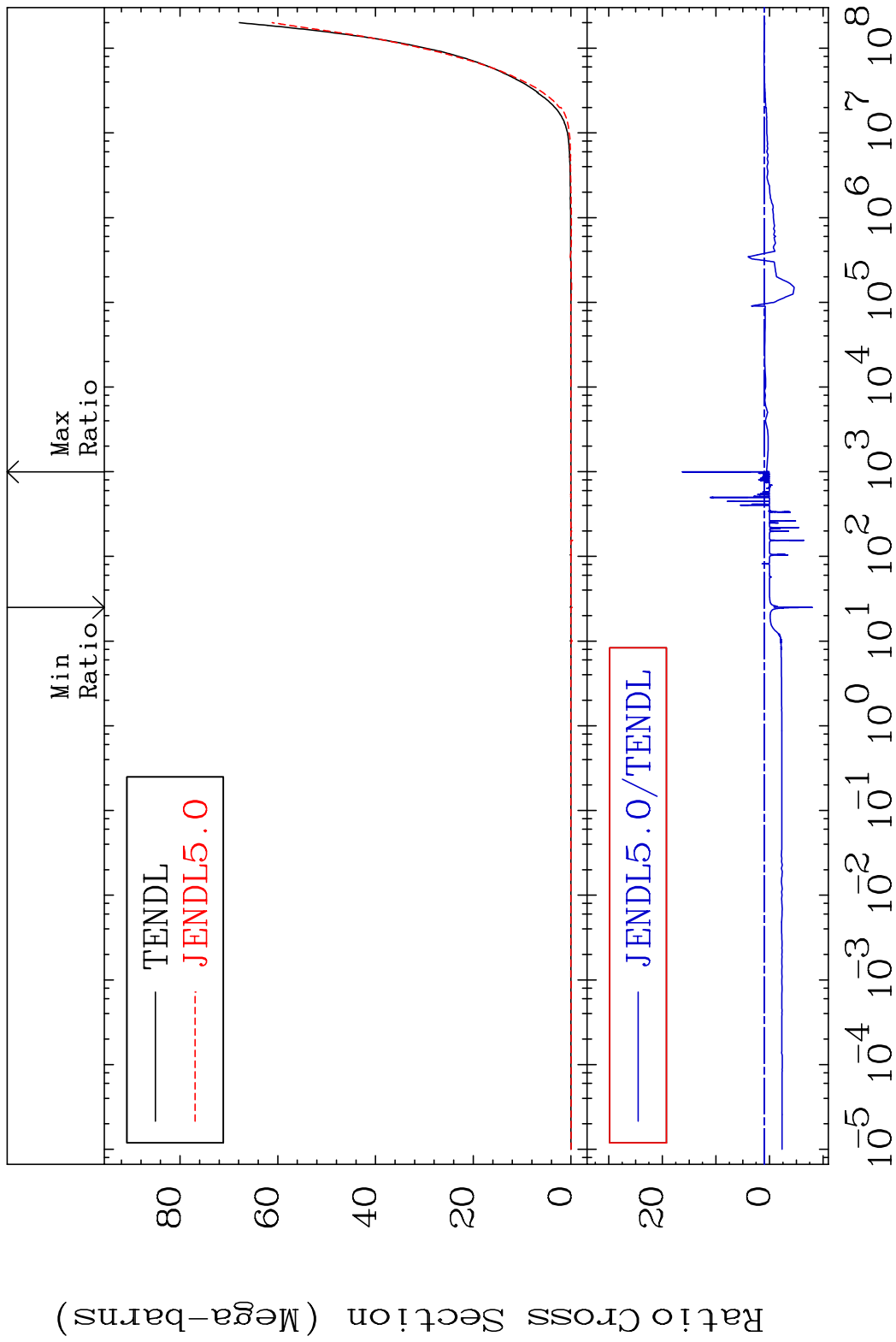


44

Incident Energy (eV)

44-Ru-99

MAT 4434 Kerma total (eV-barns) 44-Ru-99
 Cross Section -902.9 To 1527. %



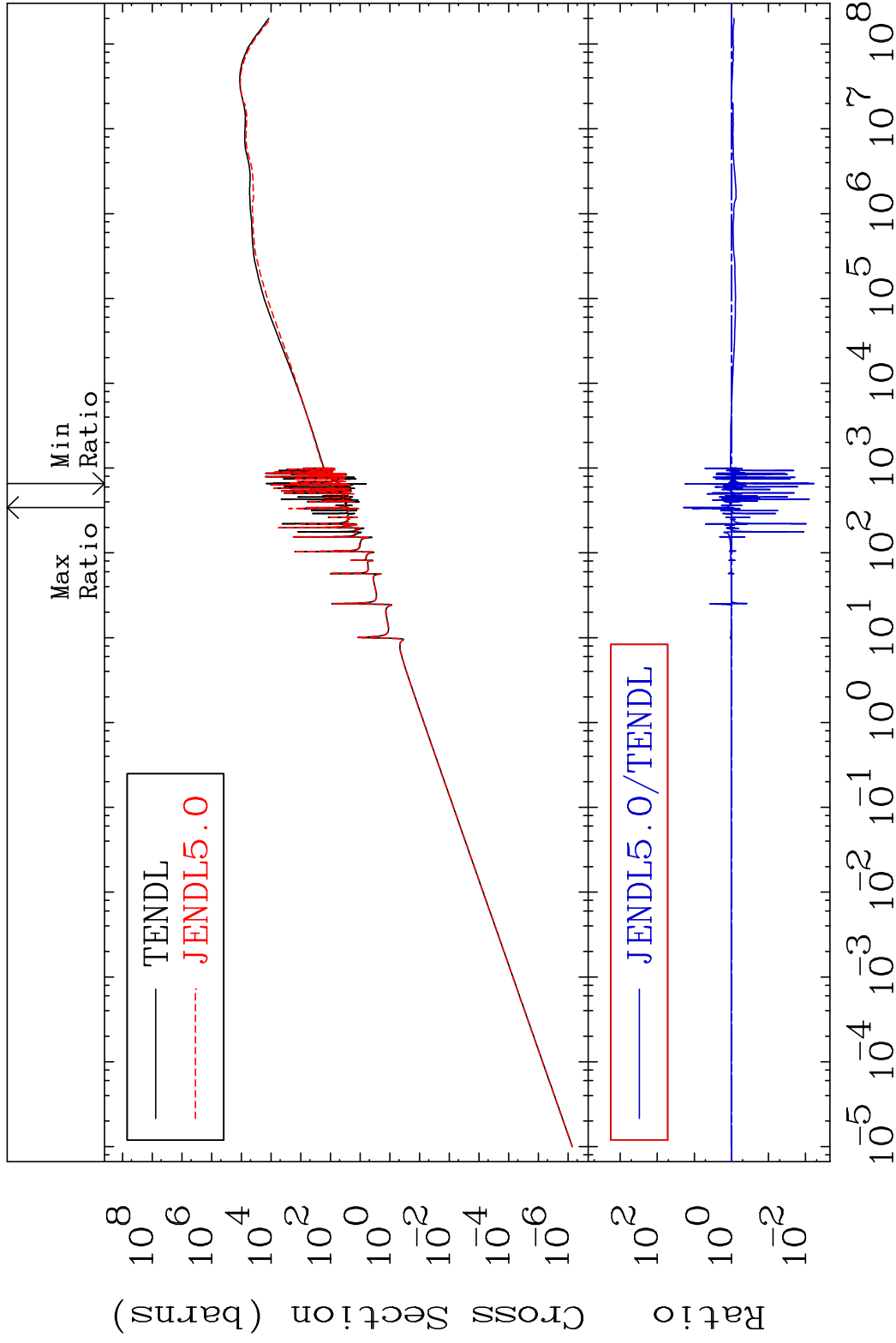
45 44-Ru-99

MAT 4434

Kerma elastic

44-Ru-99

Cross Section -99.41 To 1839. %

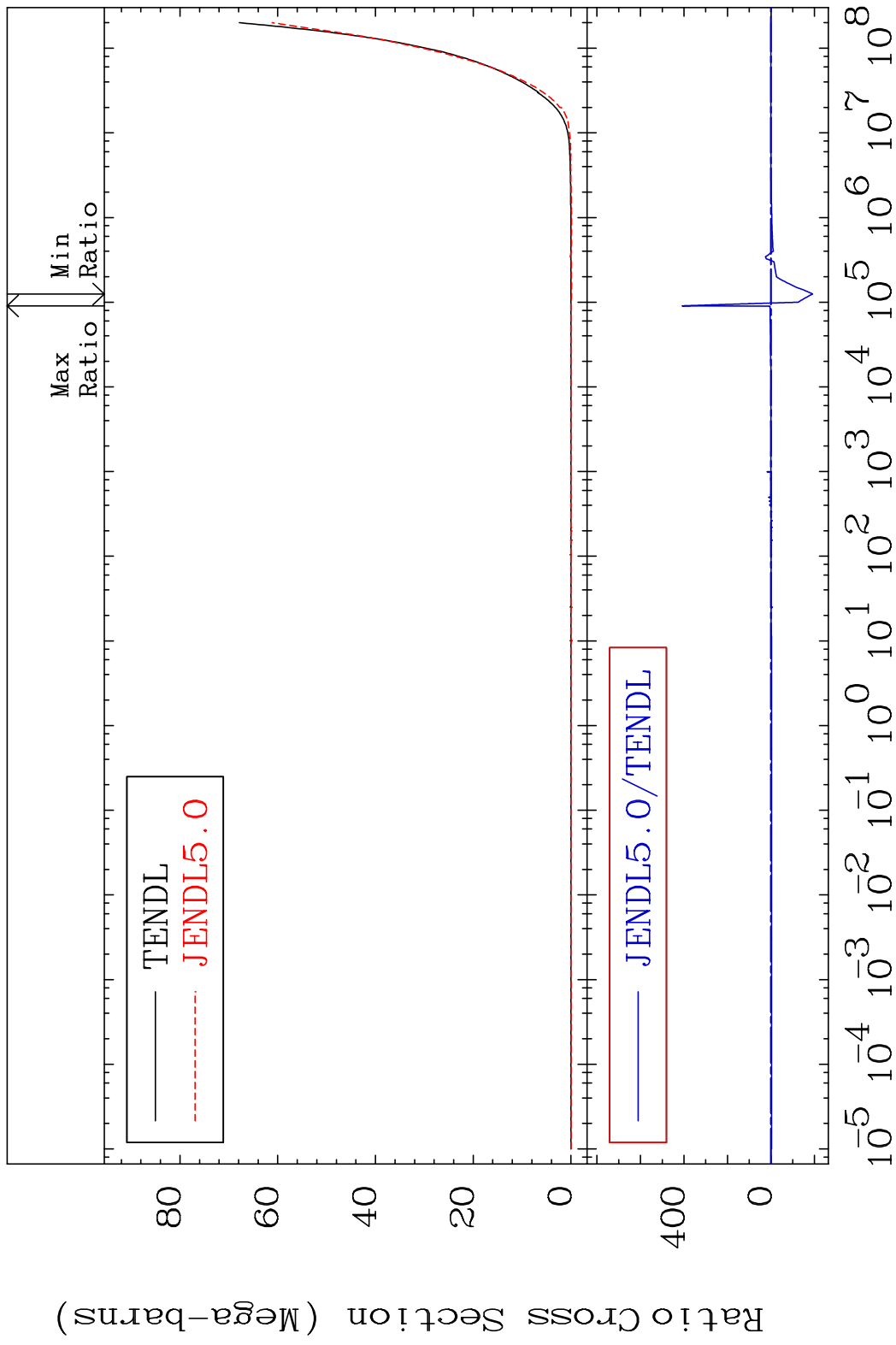


46

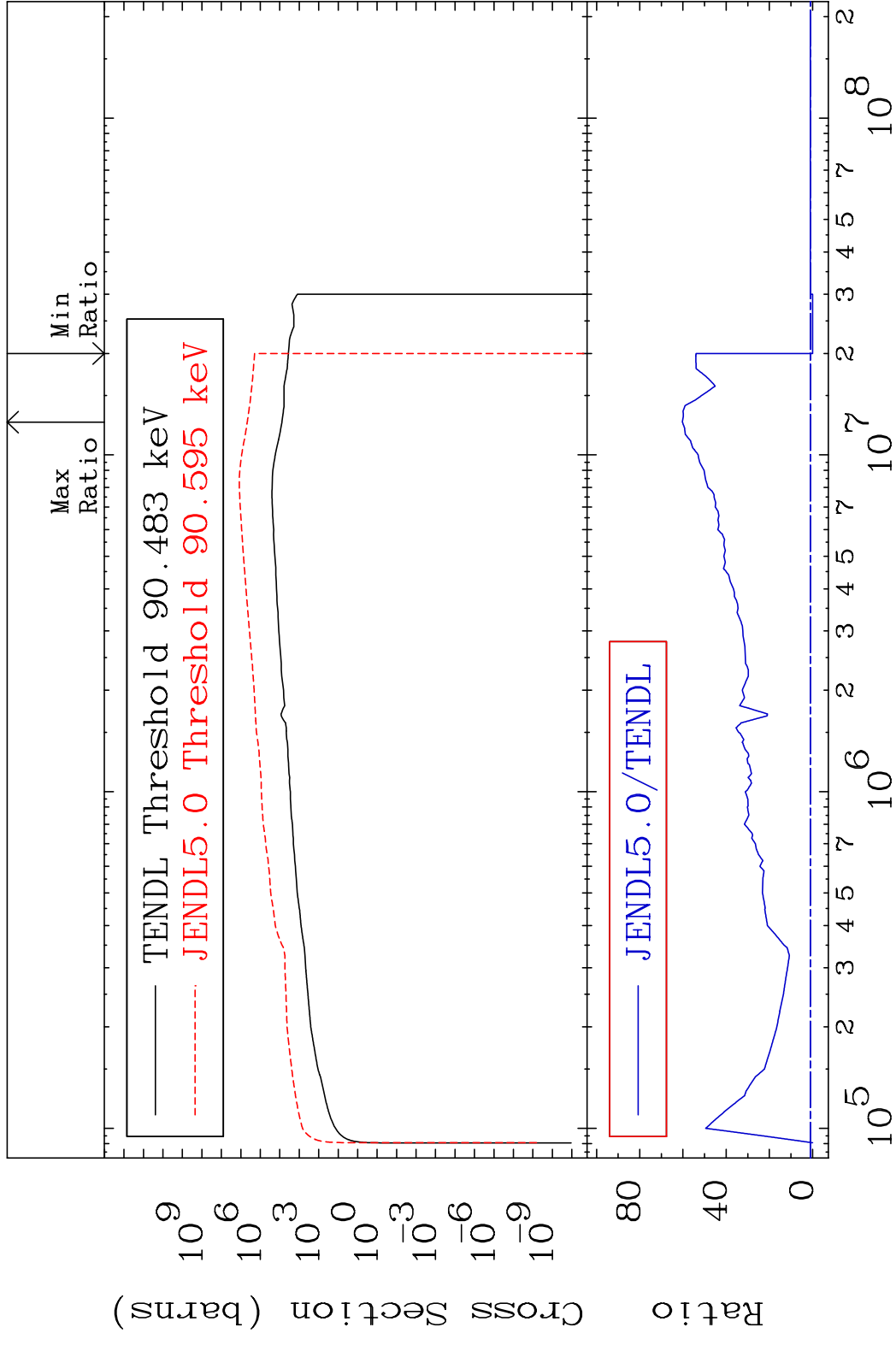
Incident Energy (eV)

44-Ru-99

MAT 4434 Kerma non-elastic (all but mt2) 44-Ru-99
Cross Section -9999. To 9999. %

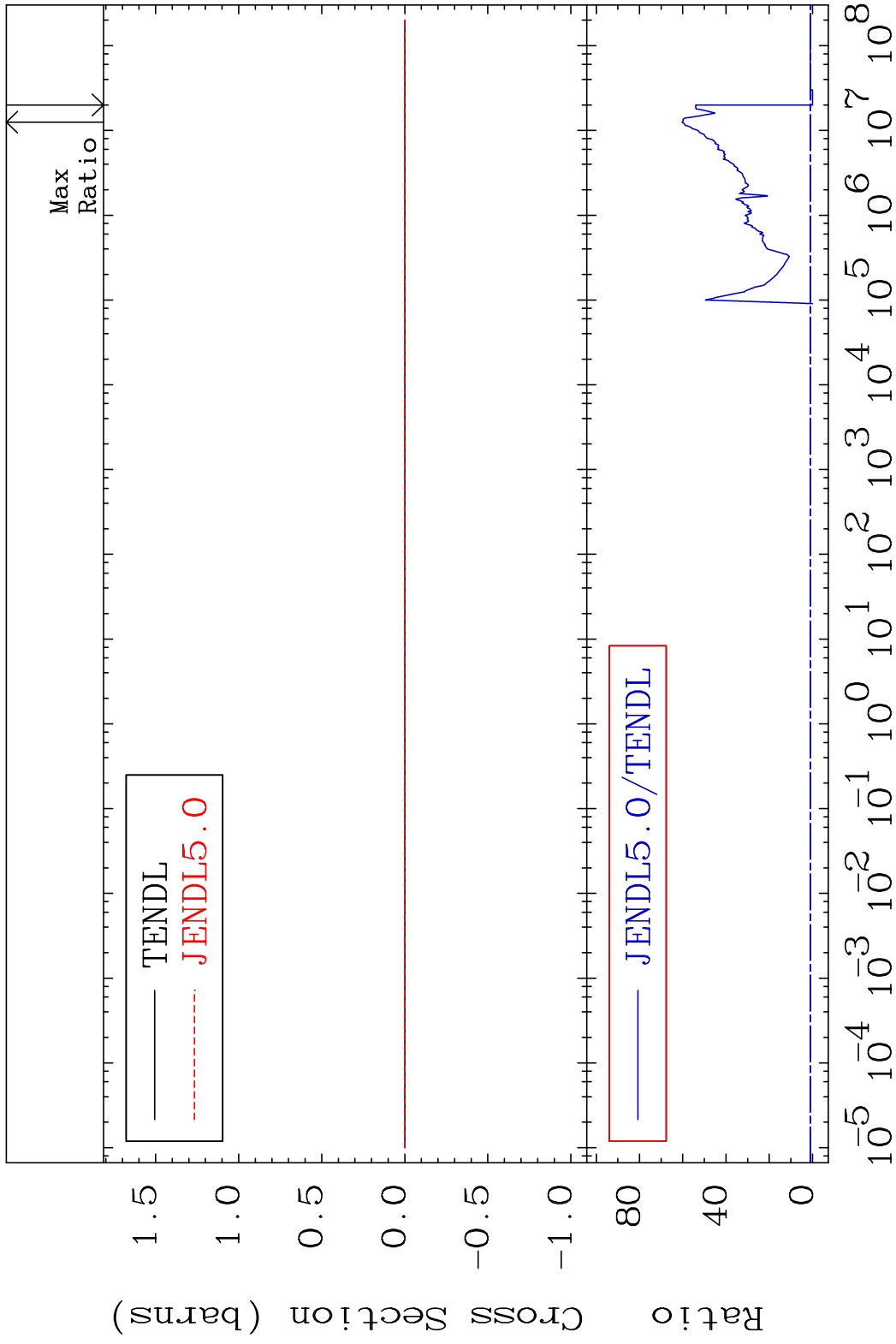


MAT 4434 Kerma inelastic (mt51-91) 44-Ru-99
 Cross Section -100.0 To 5927. %

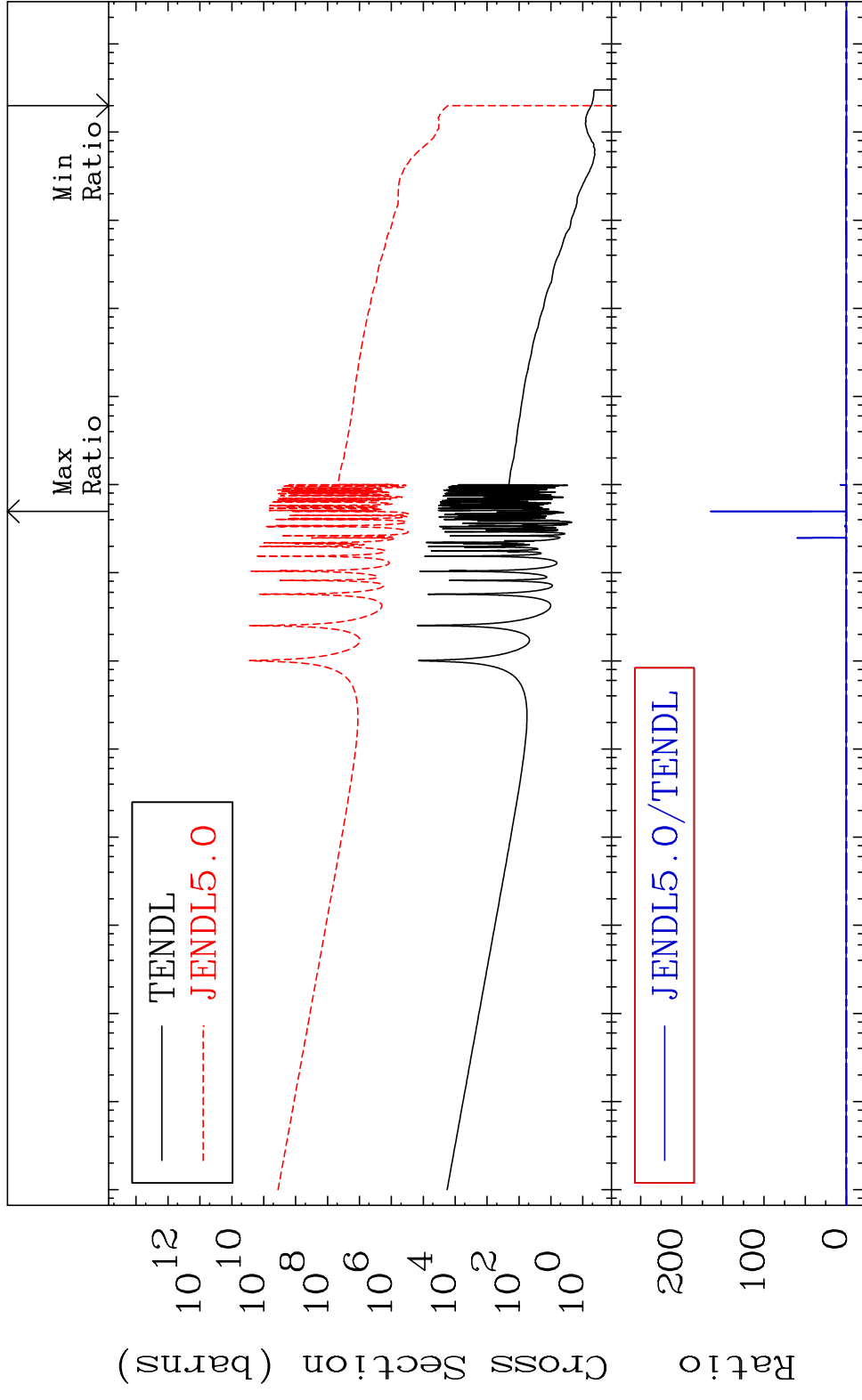


48 44-Ru-99

MAT 4434 Kerma fission (mt18 or mt19-20-21-38) 44-Ru-99
Cross Section -100.0 To 5927. %

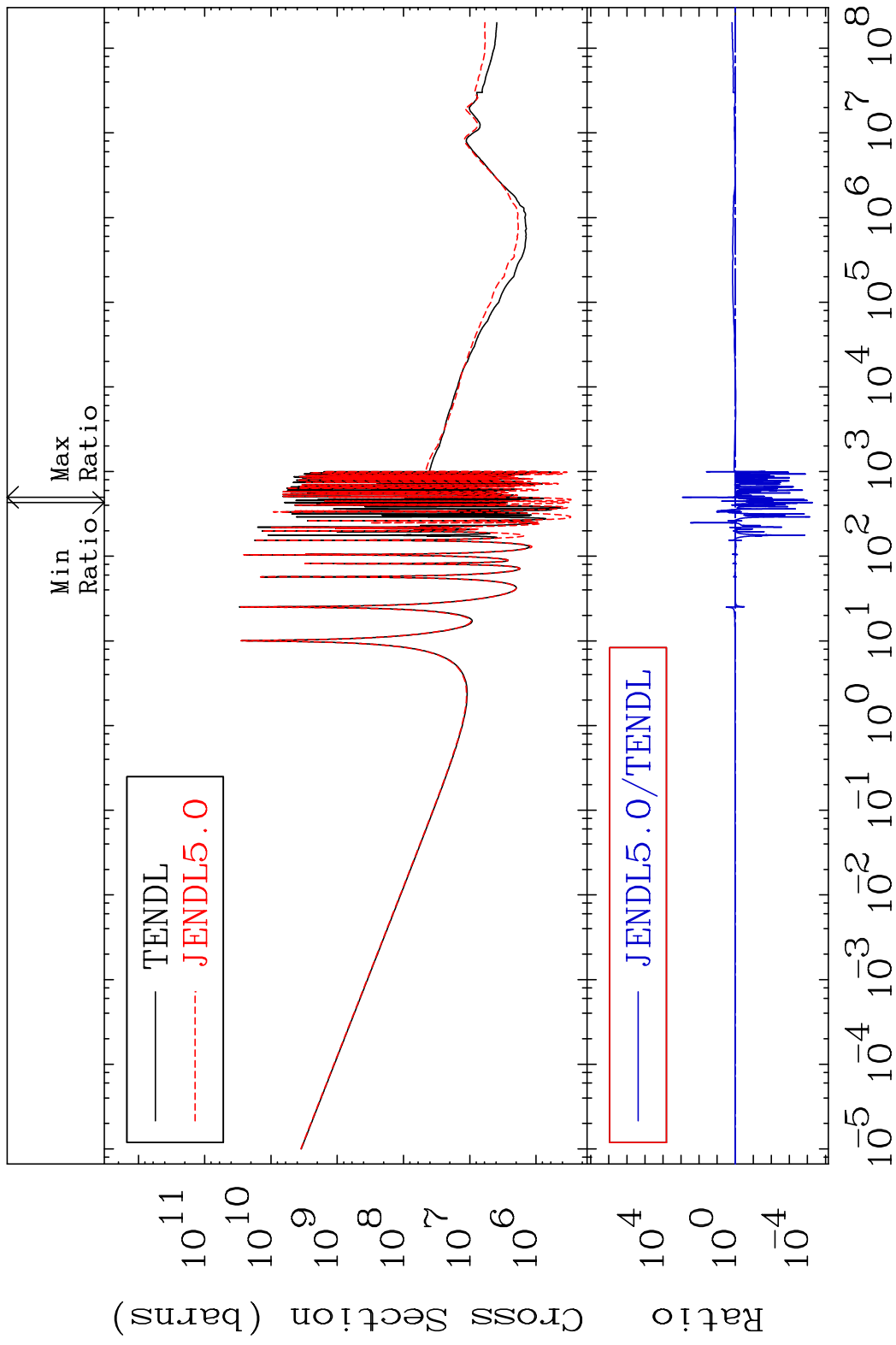


MAT 4434 Kerma capture (mt102) 44-Ru-99
 Cross Section -100.0 To 9999. %



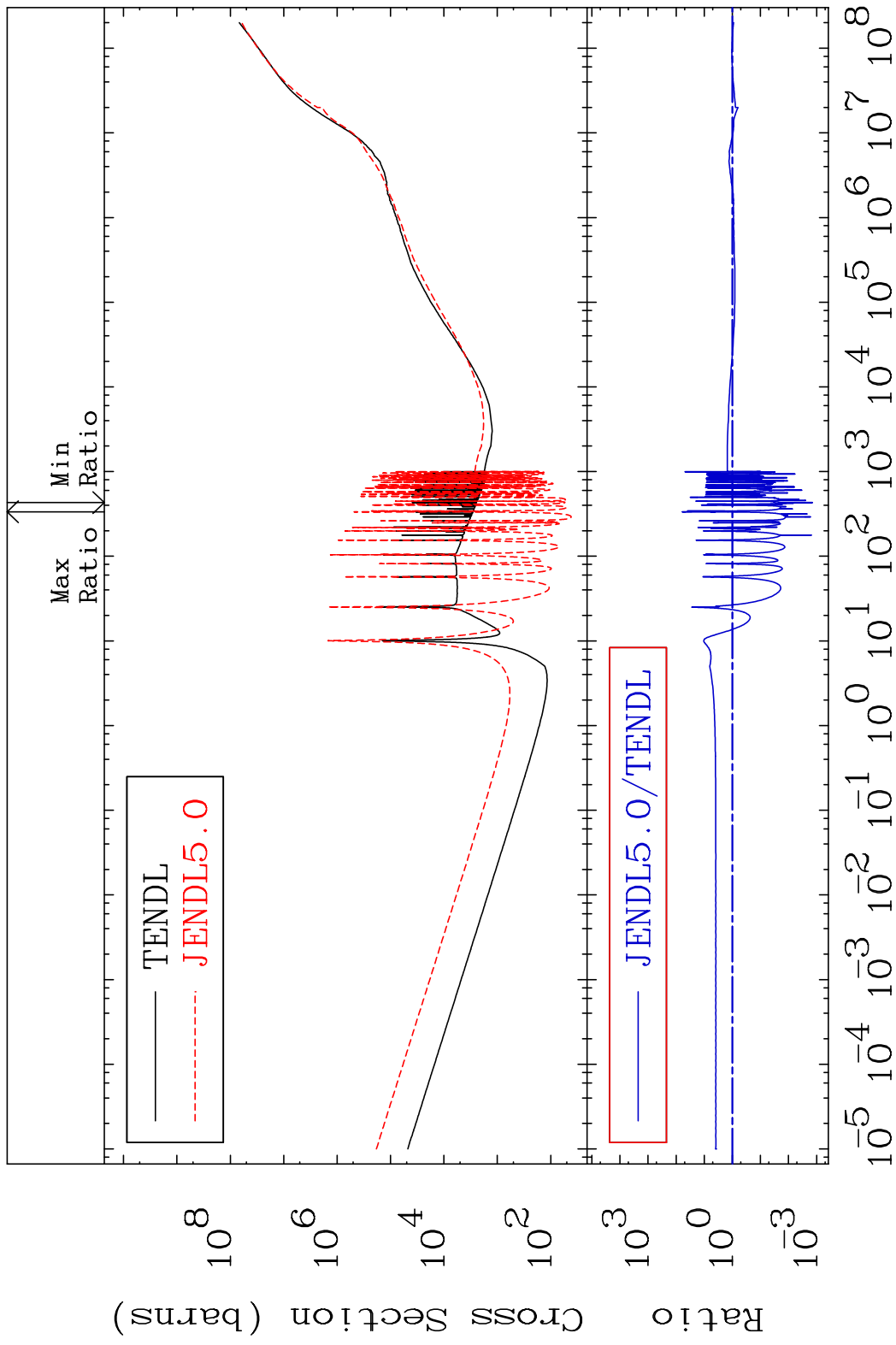
50 Incident Energy (eV) 44-Ru-99

MAT 4434 Total photon (eV-barns) 44-Ru-99
 Cross Section -99.99 To 9999. %

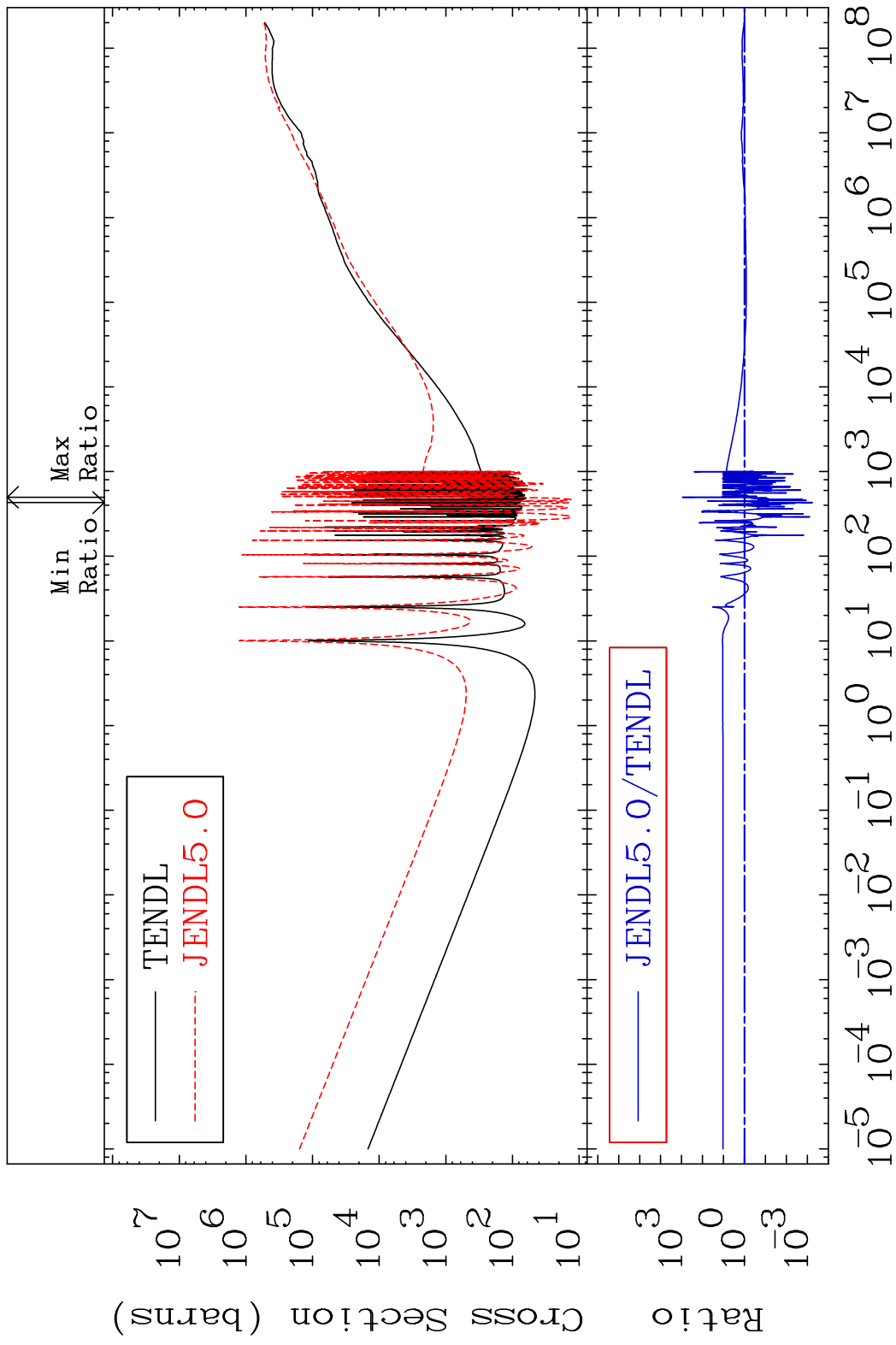


51 Incident Energy (eV) 44-Ru-99

MAT 4434 Total kinematic kerma (high limit) 44-Ru-99
 Cross Section -99.86 To 5900. %



MAT 4434 Dpa total (eV-barns) 44-Ru-99
 Cross Section -99.94 To 9999. %

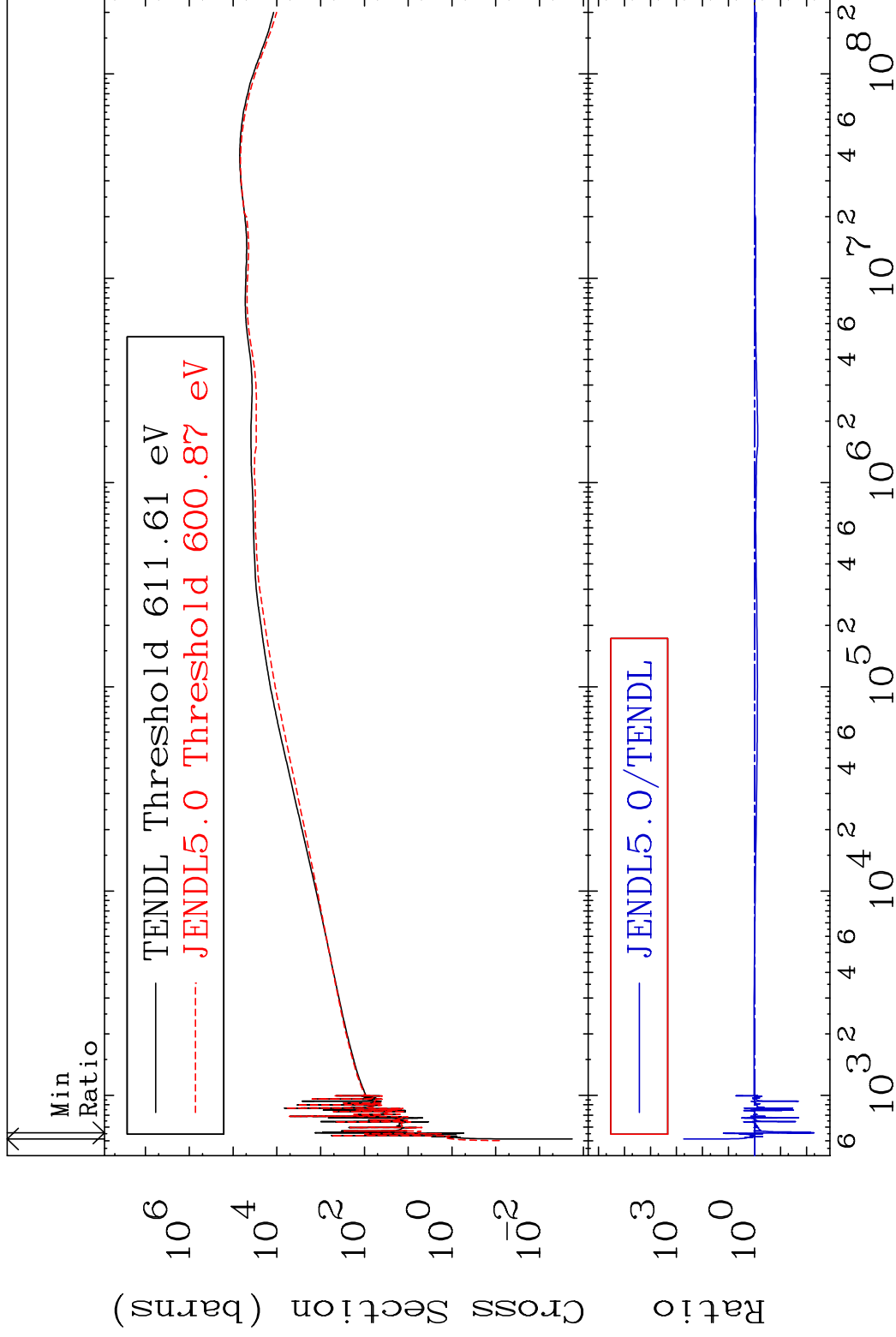


MAT 4434

Dpa elastic (mt2)

44-Ru-99

Cross Section -99.49 To 9999. %

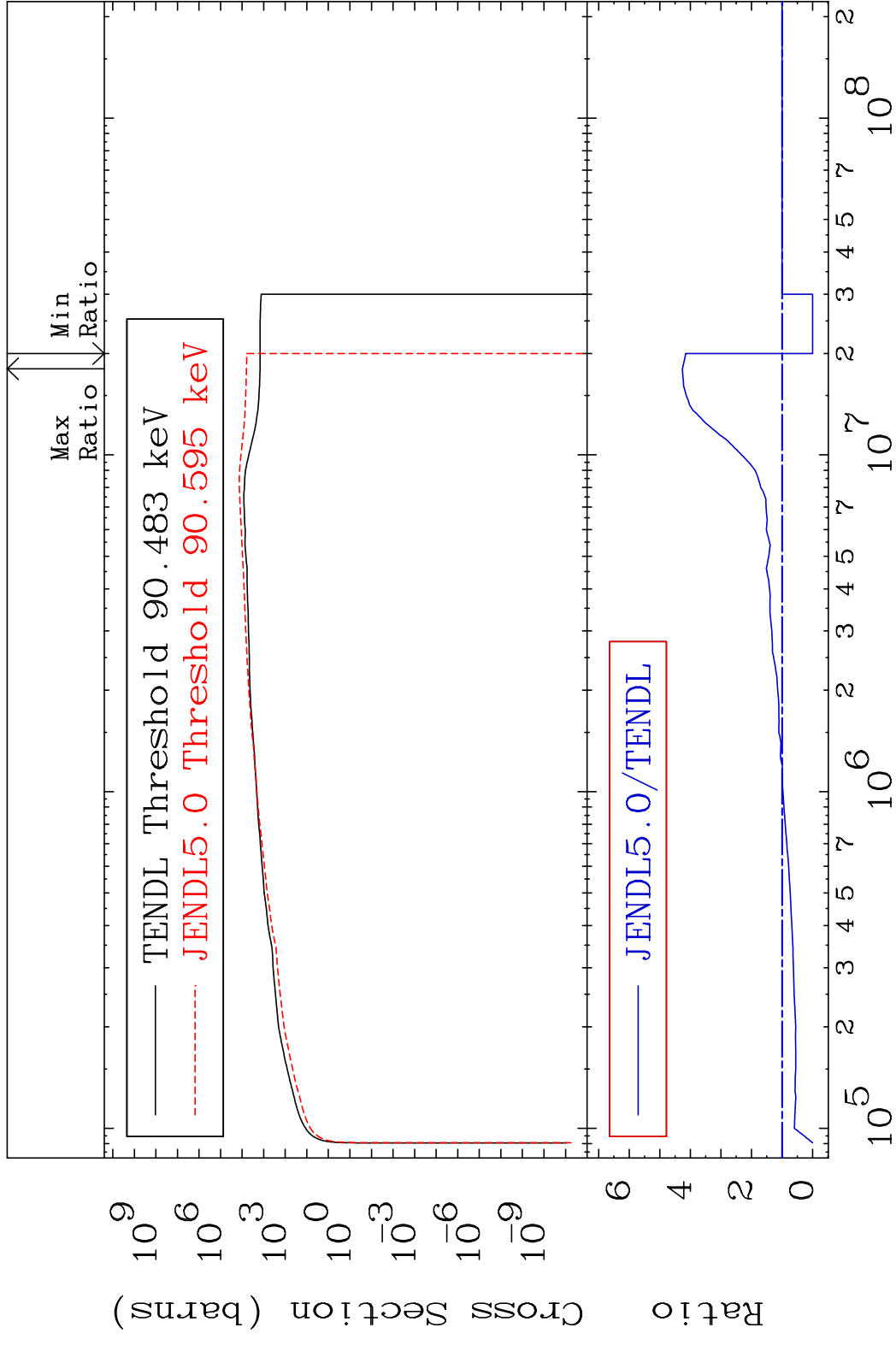


54

Incident Energy (eV)

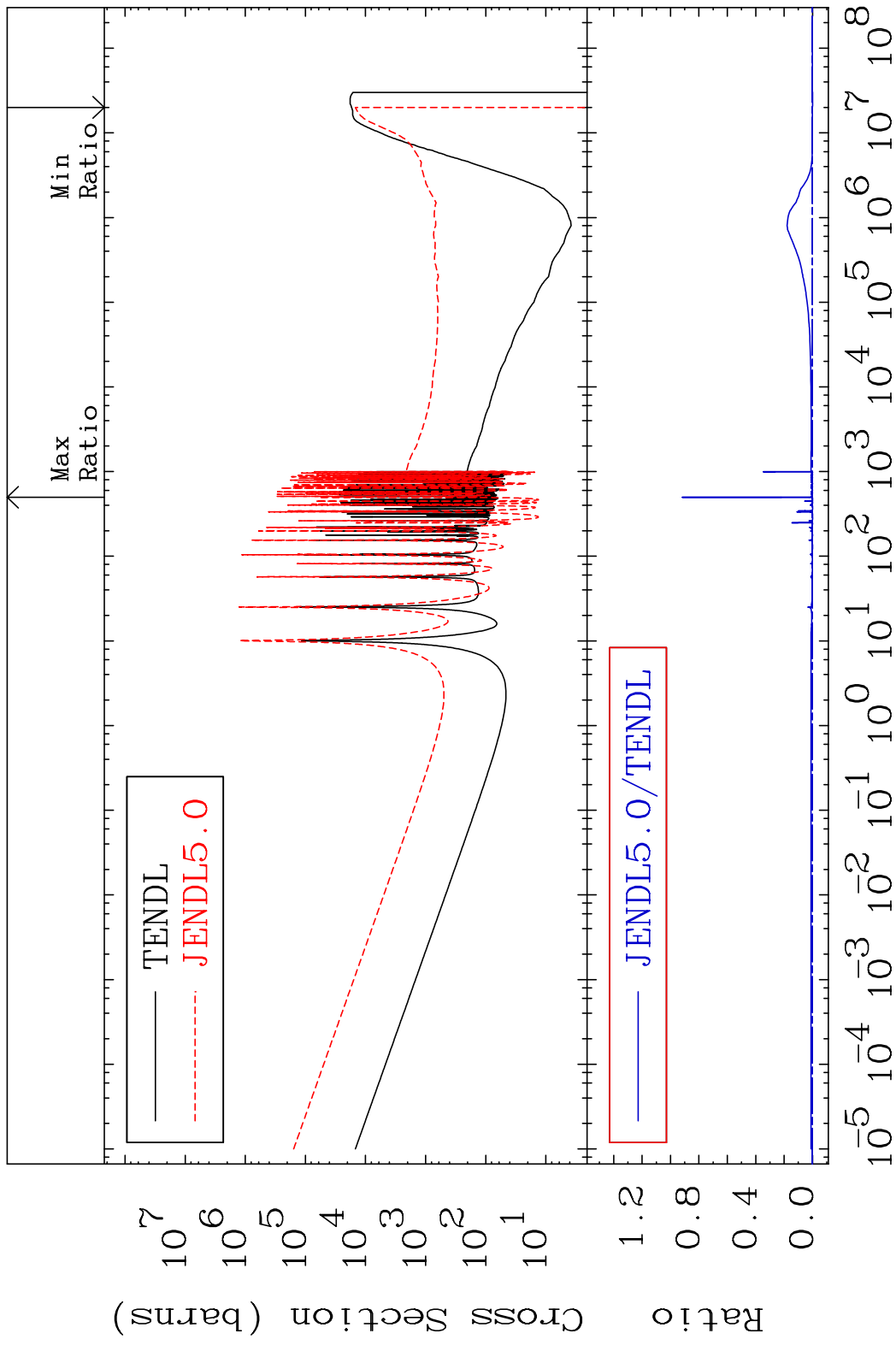
44-Ru-99

MAT 4434 Dpa inelastic (mt51-91) 44-Ru-99
 Cross Section -100.0 To 326.1 %

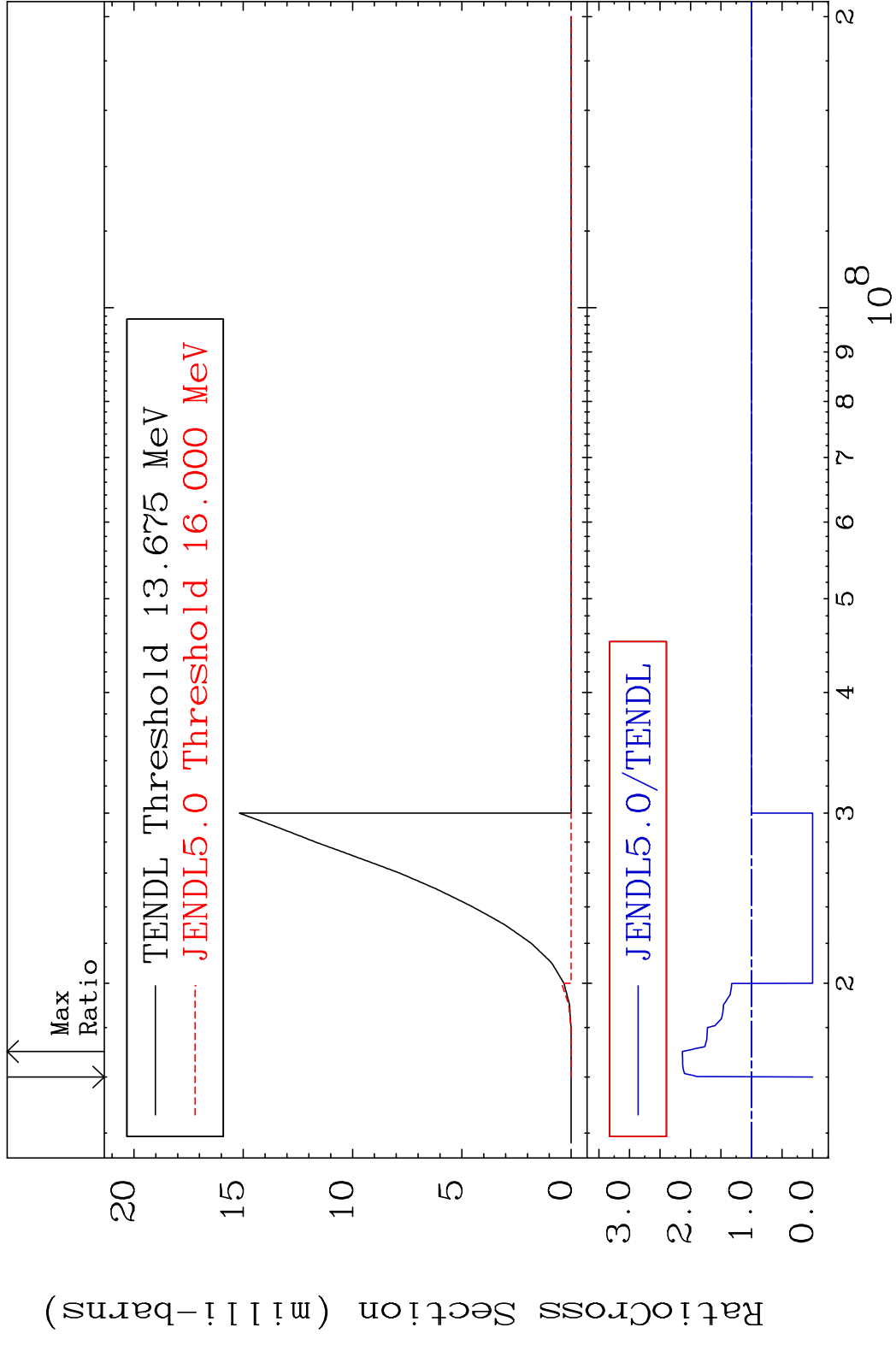


55 Incident Energy (eV) 44-Ru-99

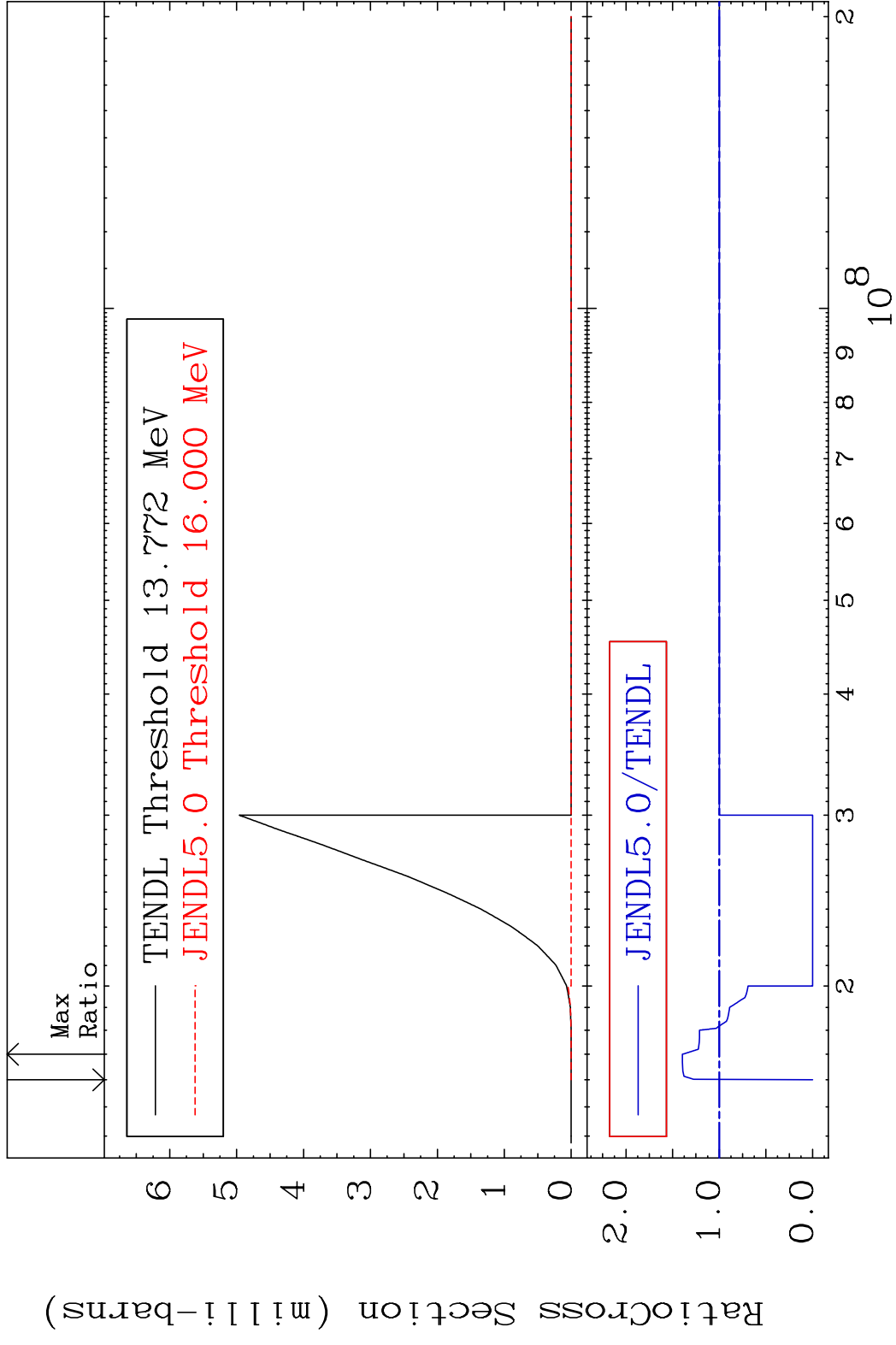
MAT 4434 Dpa disappearance (mt102 -120) 44-Ru-99
 Cross Section -100.0 To 9999. %



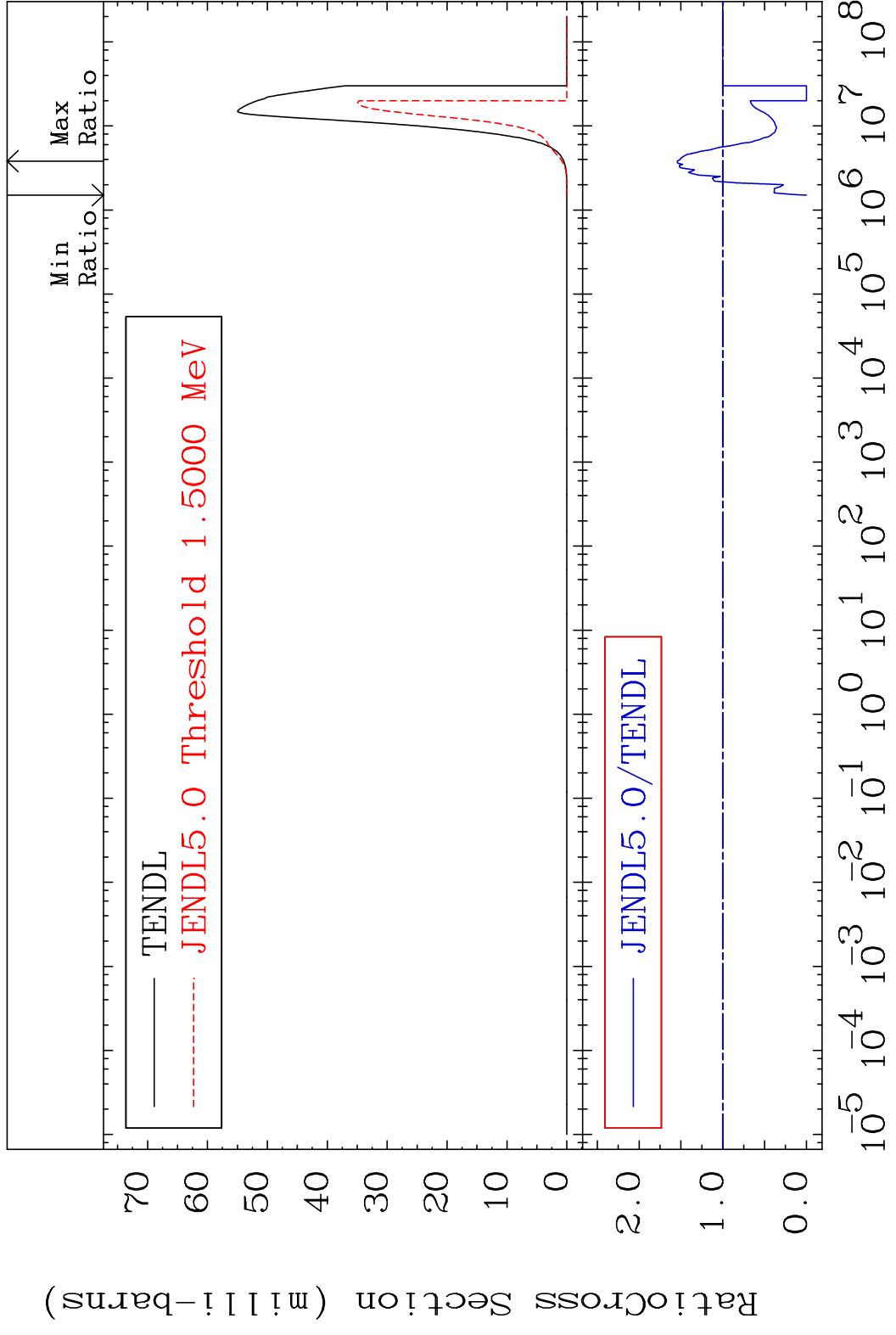
MAT 4434 (n, n') d:43-Tc-97g 44-Ru-99
 Radionuclide Production Cross Section 180.0 mb 113.4 %



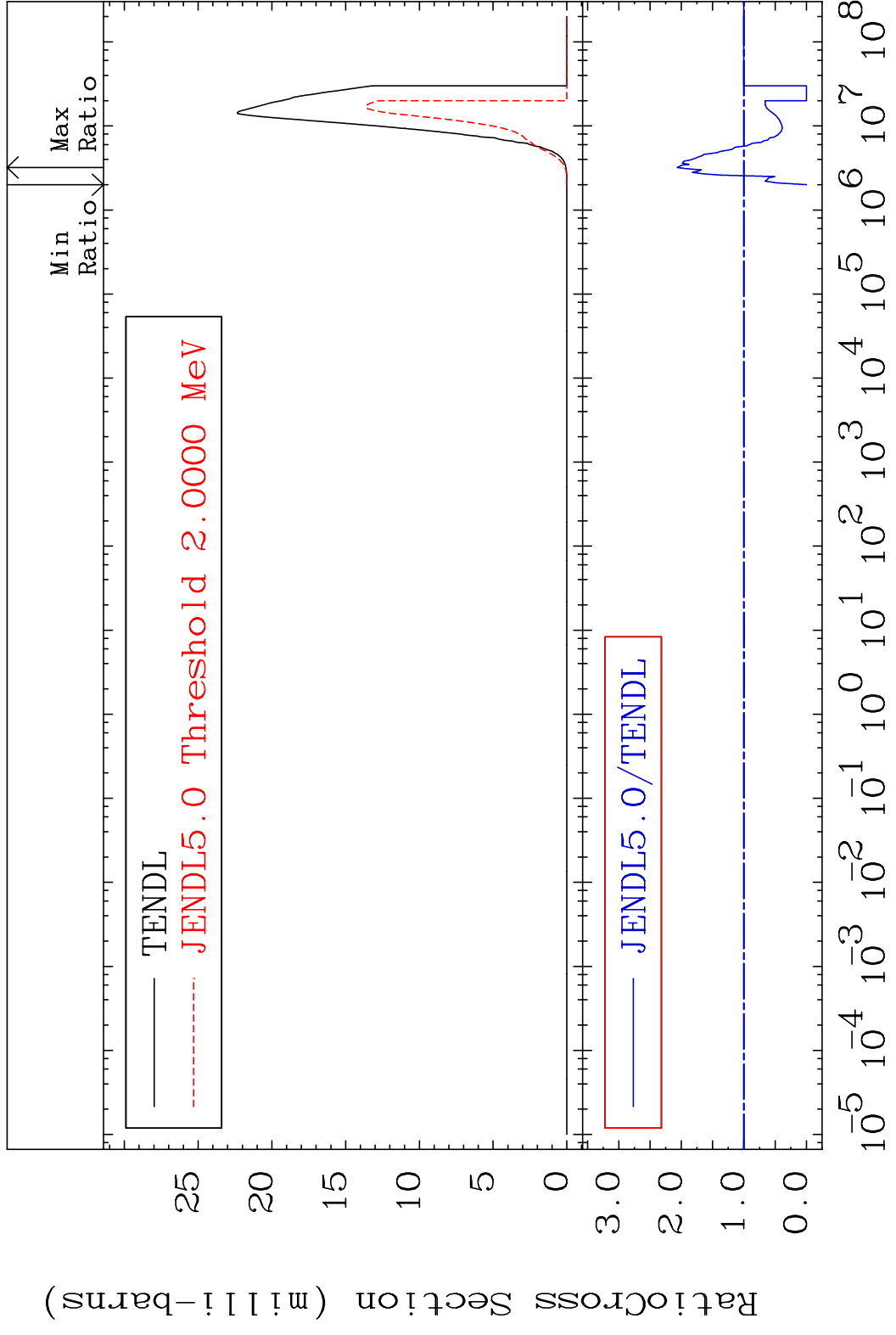
MAT 4434 (n, n') d:43-Tc-97m1 44-Ru-99
 Radionuclide Production Cross Section Ratio 39.58 %



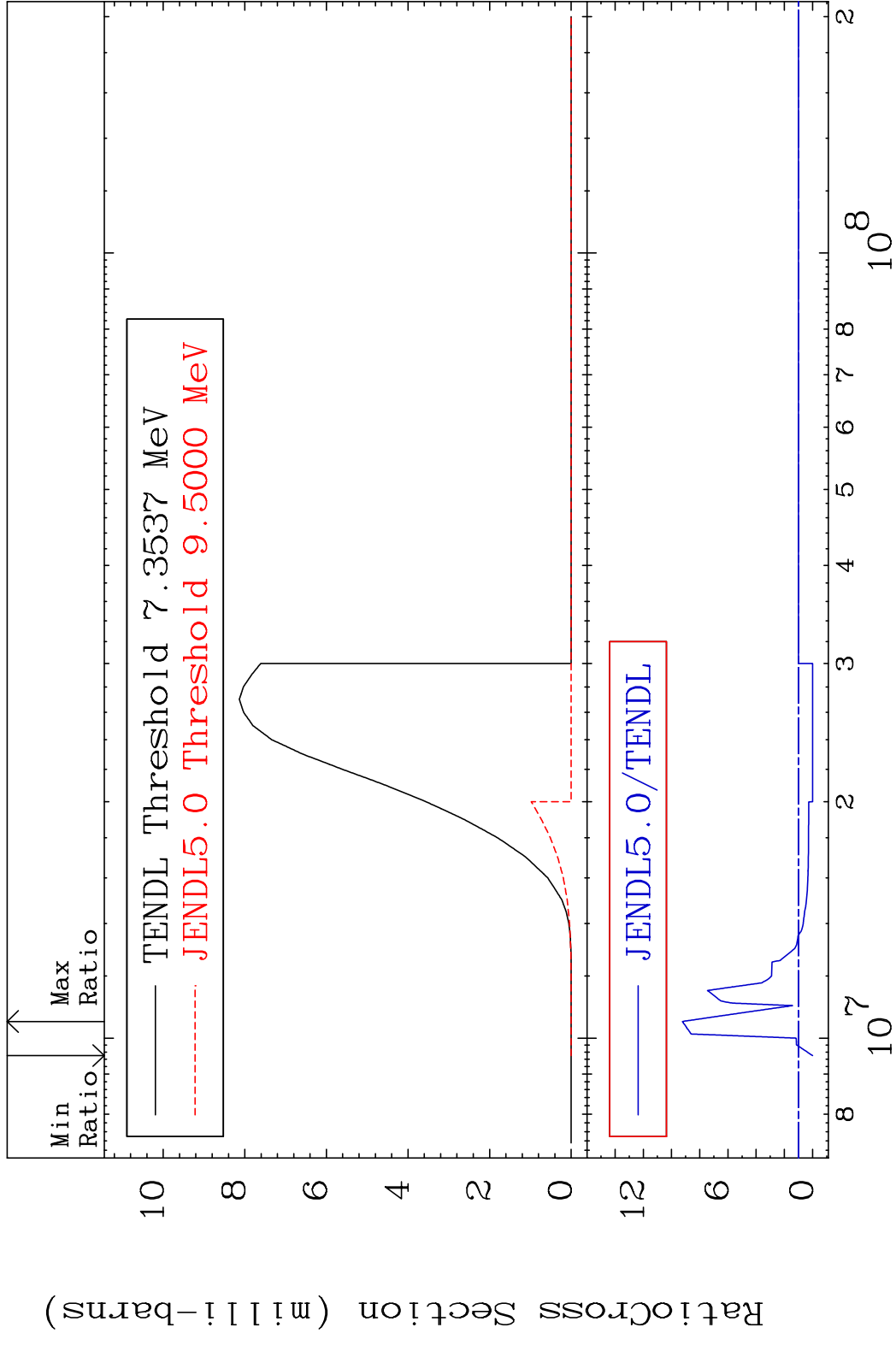
MAT 4434 (n,p):43-Tc-99g 44-Ru-99
 Radionuclide Production Cross Section Ratio 54.46 %



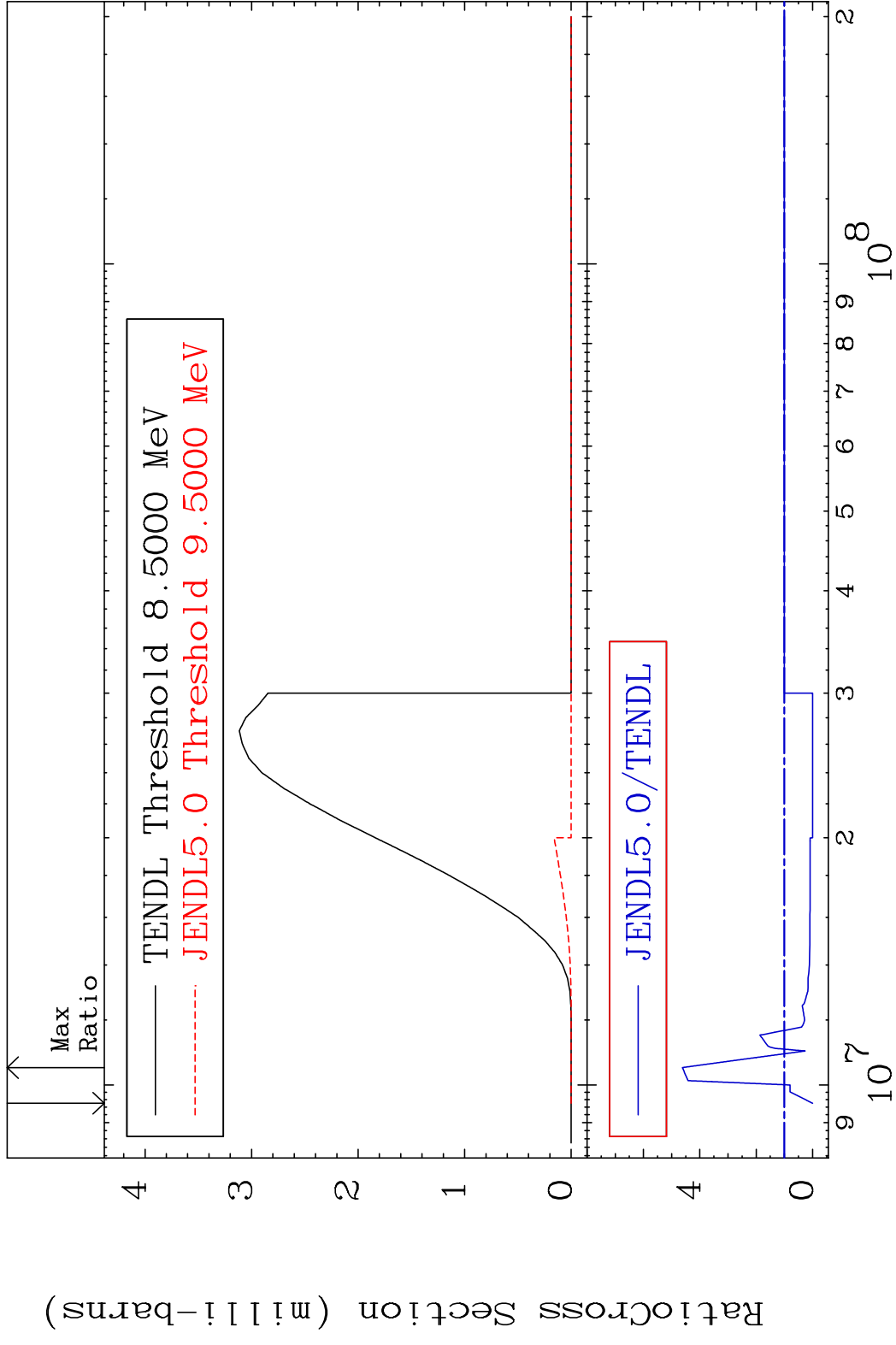
MAT 4434 (n,p):43-Tc-99m2 44-Ru-99
 Radionuclide Production Cross Section Ratio 106.6 %



MAT 4434 (n, t): 43-Tc-97g 44-Ru-99
 Radionuclide Production Cross Section 823.1 %



MAT 4434 (n, t): 43-Tc-97m1 44-Ru-99
 Radionuclide Production Cross Section Ratio 361.9 %

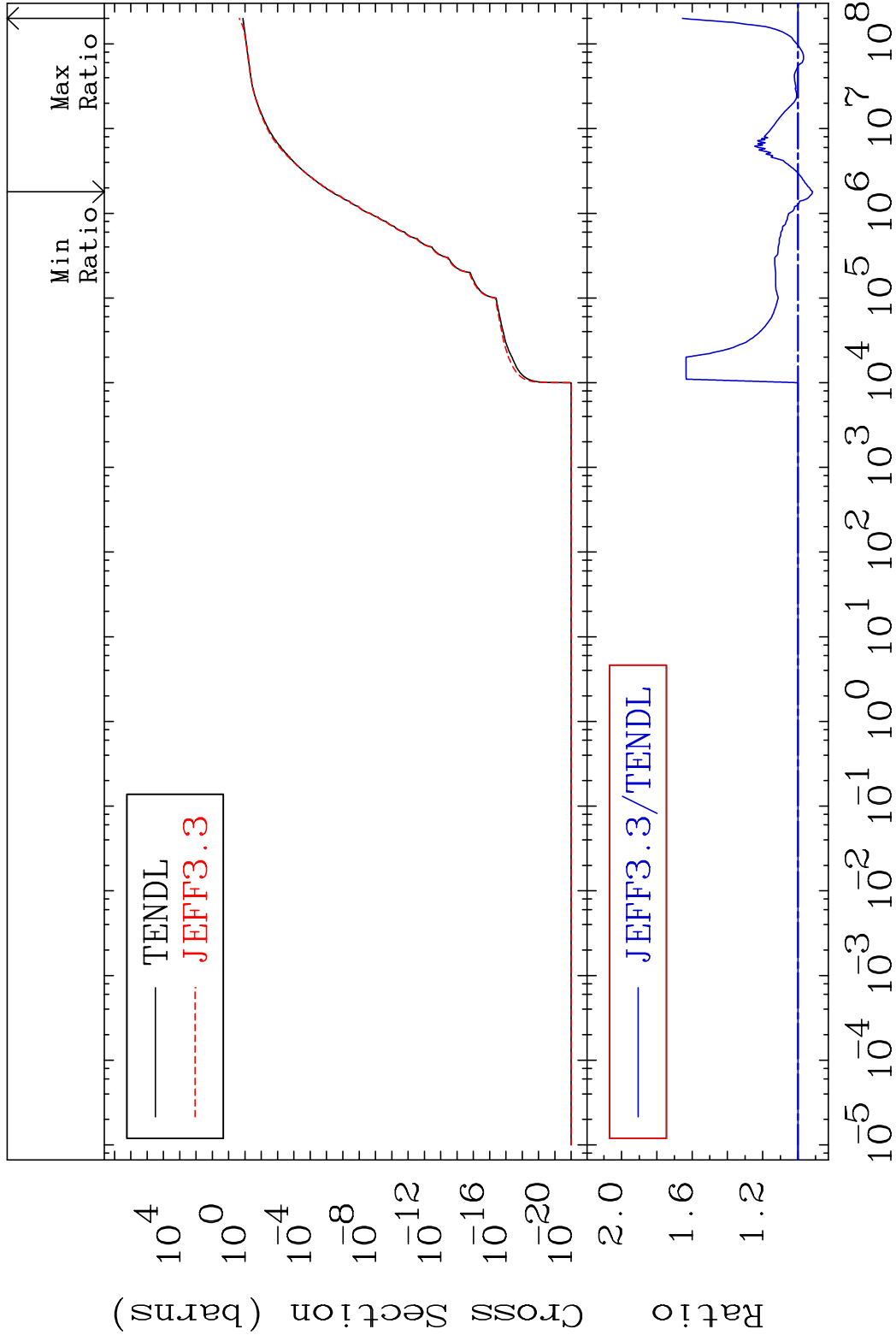


MAT 4434

Hydrogen Production

44-Ru-99

Cross Section -8.242 To 65.54 %



63

Incident Energy (eV)

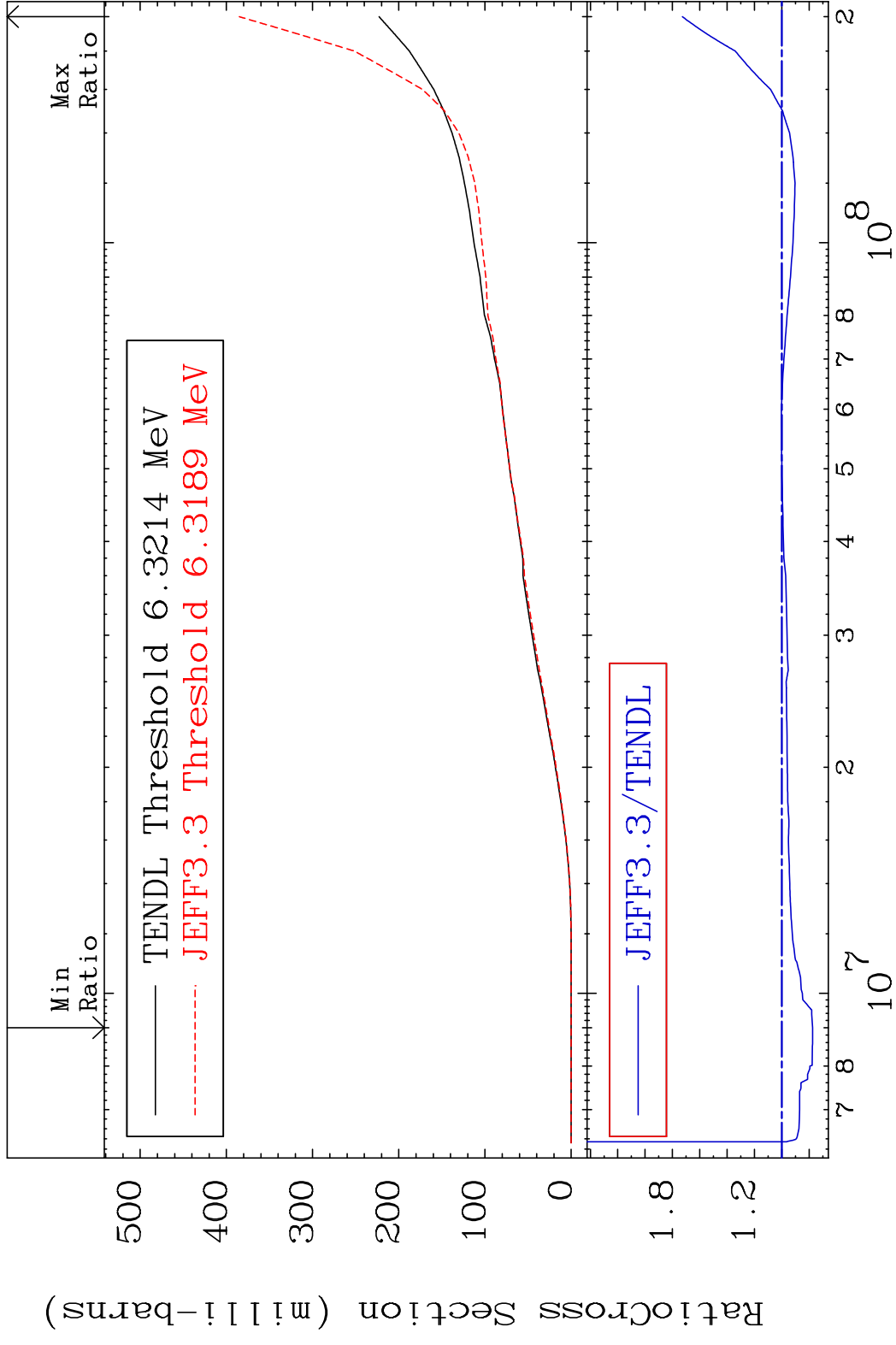
44-Ru-99

MAT 4434

Deuterium Production

44-Ru-99

Cross Section -22.53 To 72.72 %

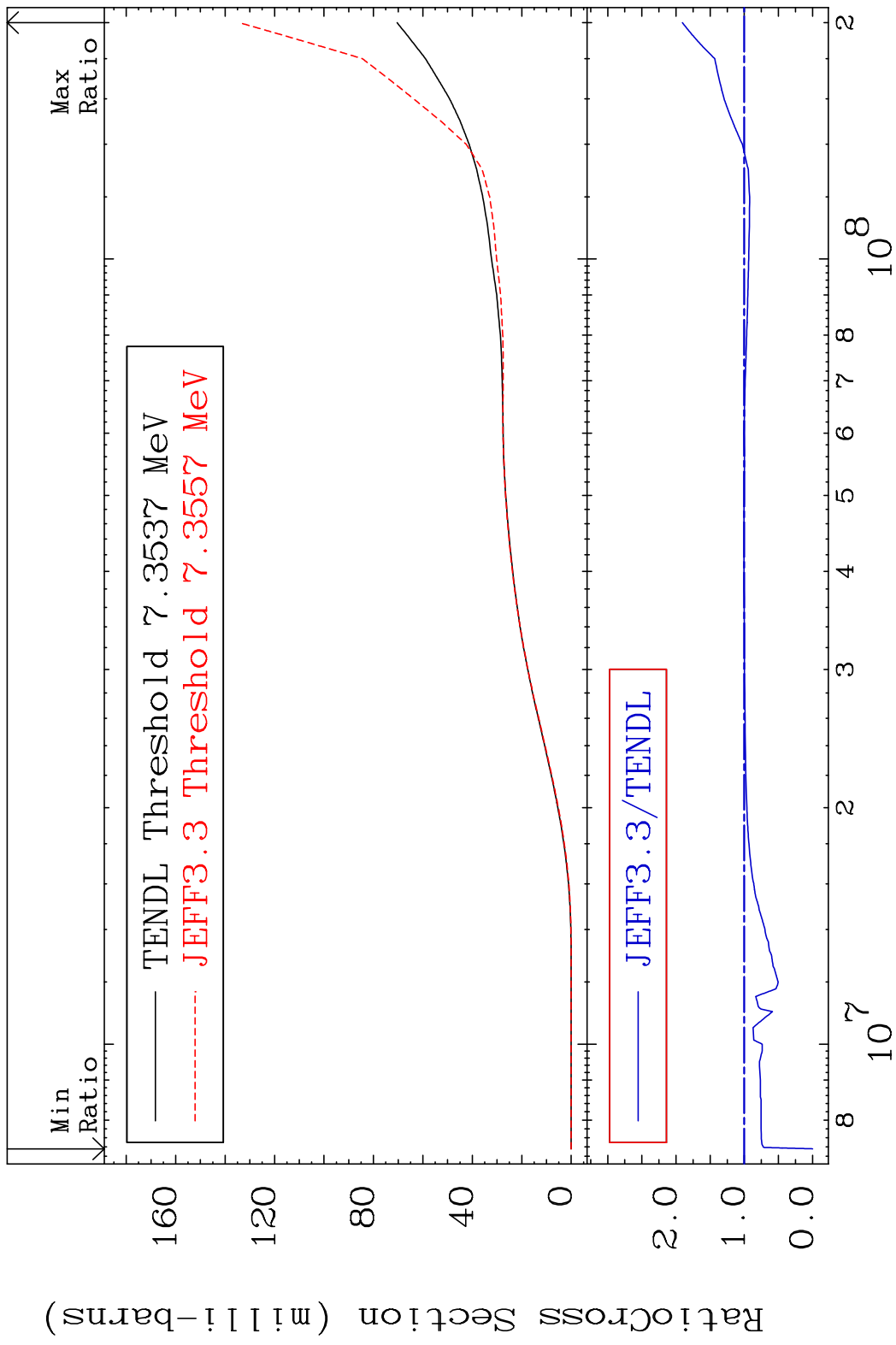


64

Incident Energy (eV)

44-Ru-99

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

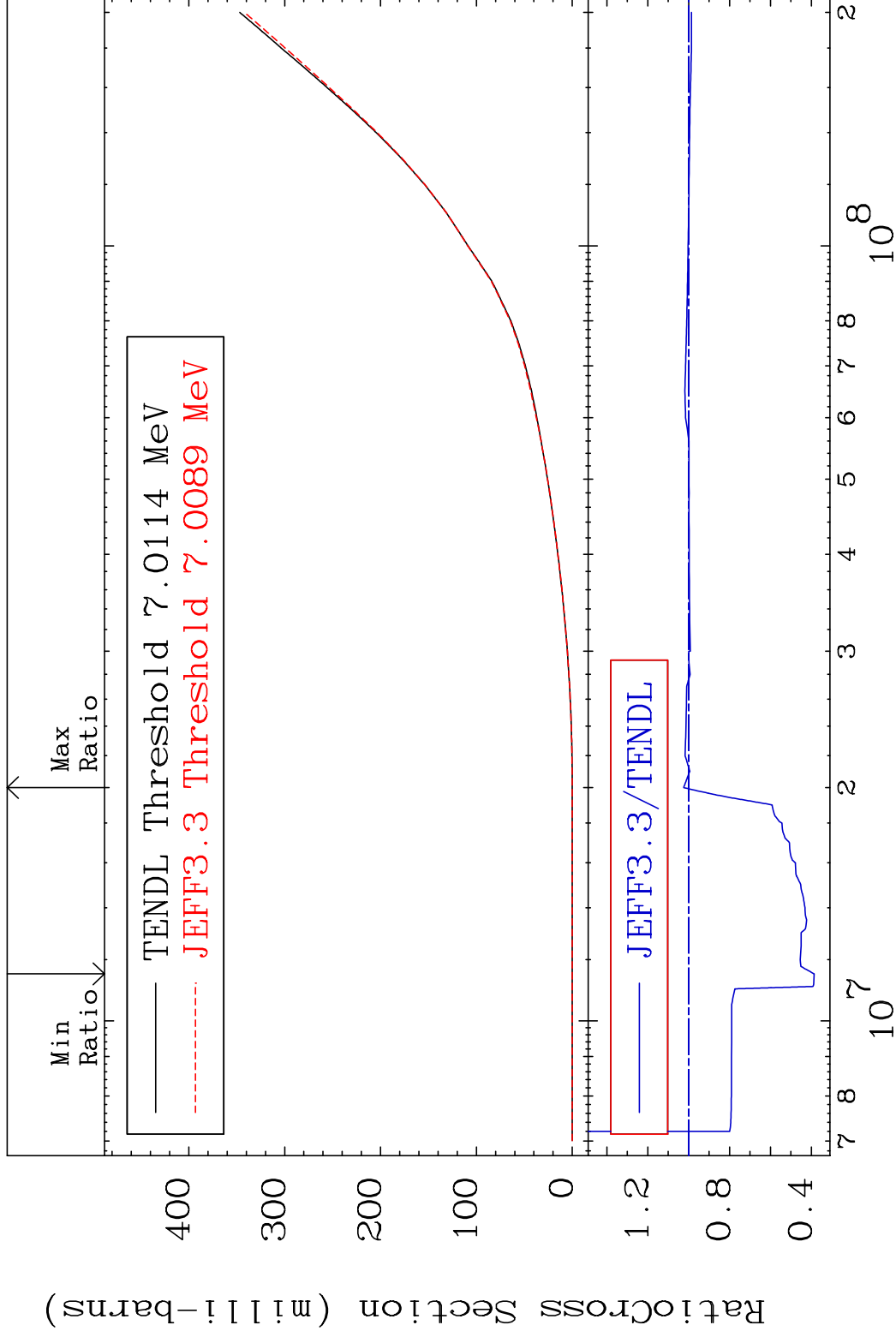


MAT 4434

He-3 Production

44-Ru-99

Cross Section -61.35 To 2.447 %



66

Incident Energy (eV)

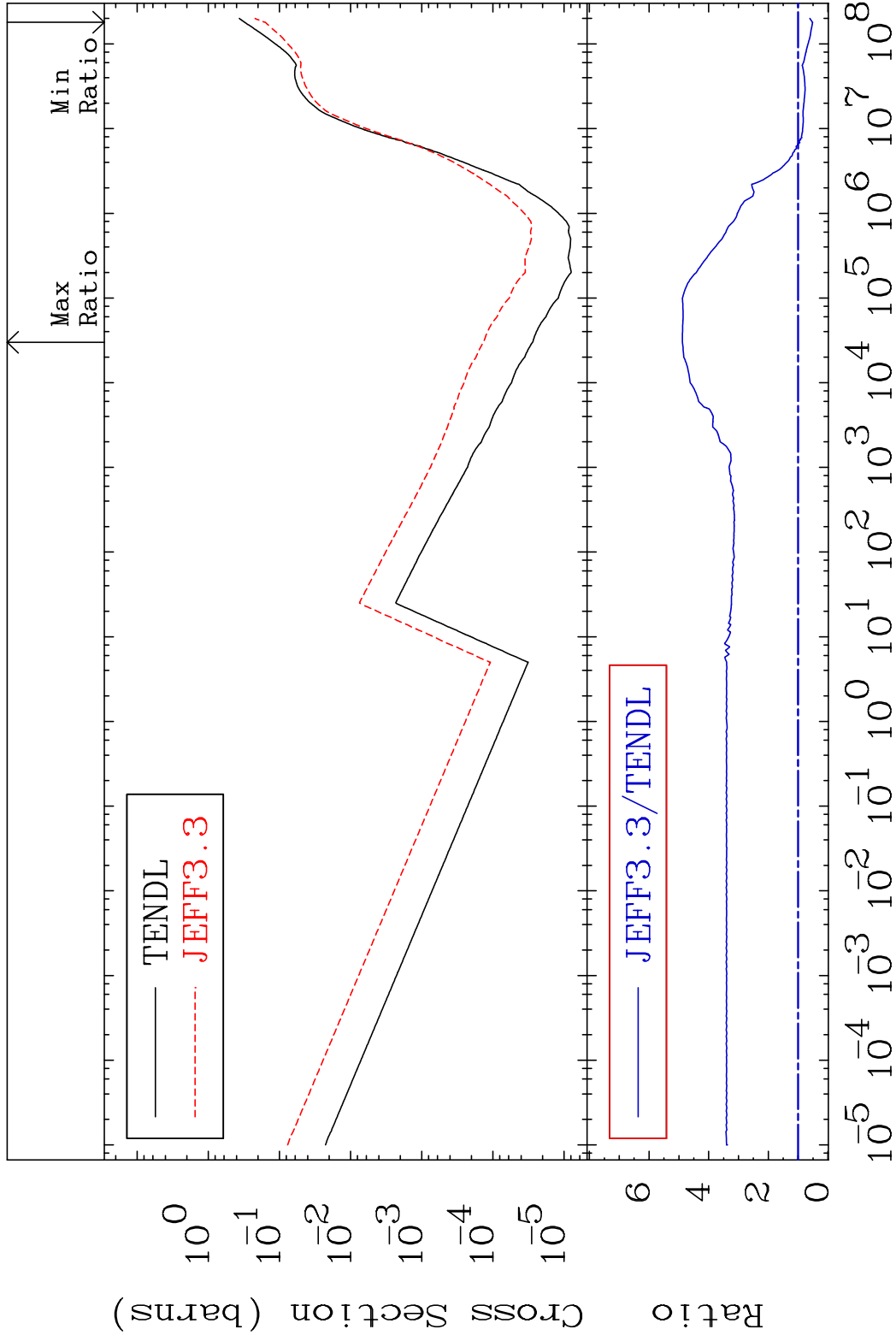
44-Ru-99

MAT 4434

He-4 Production

44-Ru-99

Cross Section -48.41 To 388.3 %

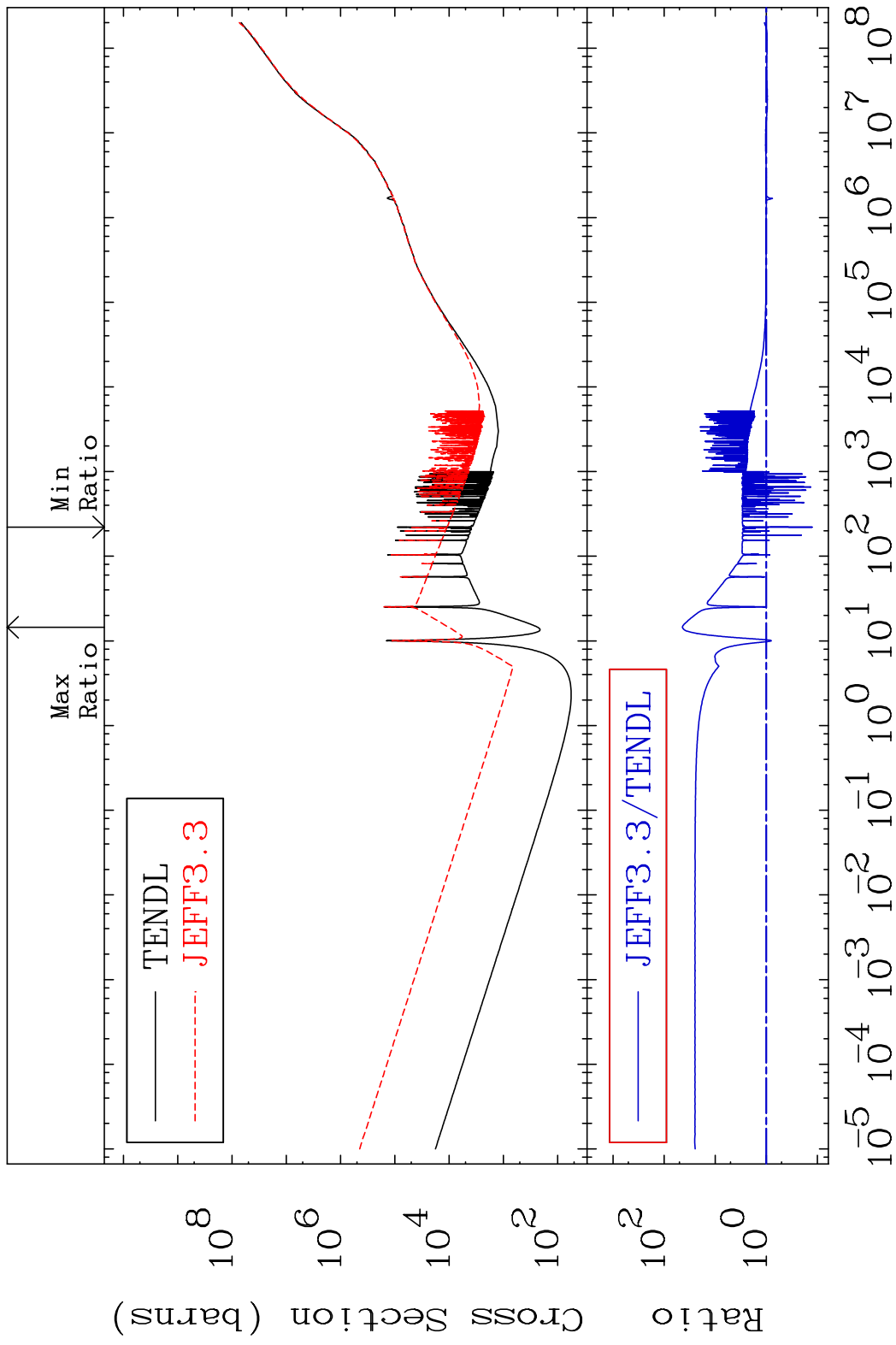


67

Incident Energy (eV)

44-Ru-99

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

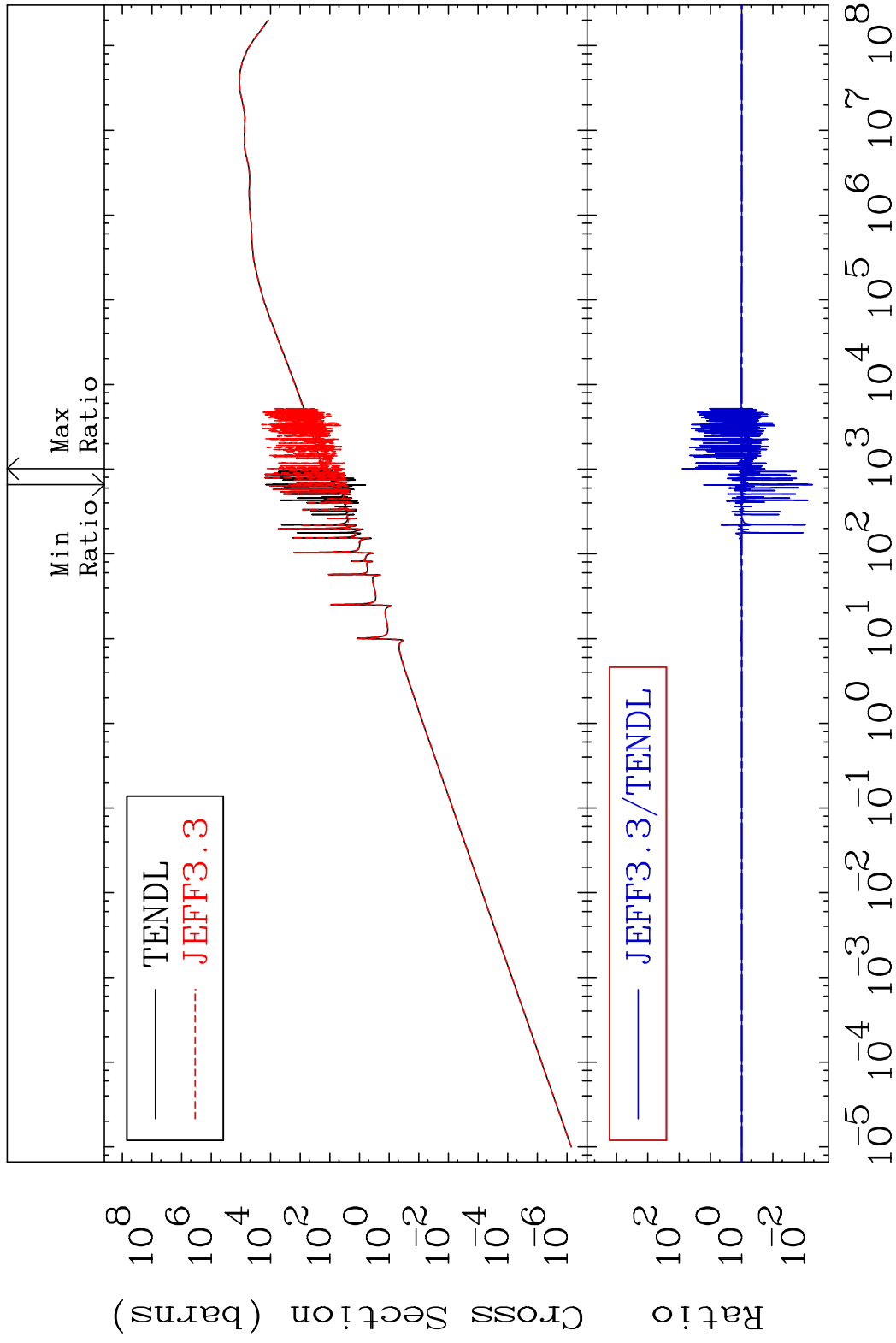


MAT 4434

Kerma elastic

44-Ru-99

Cross Section -99.46 To 7777. %

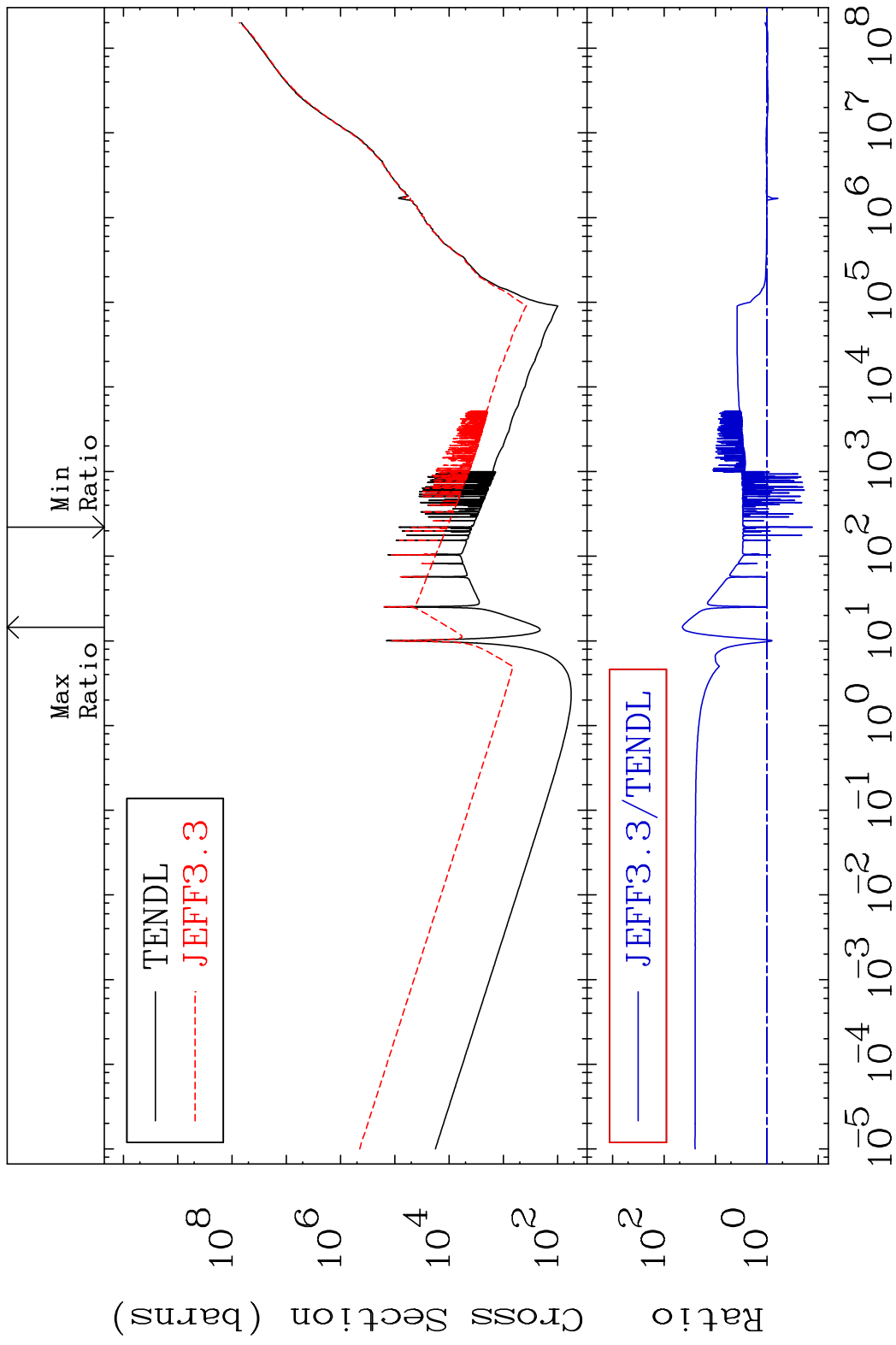


69

Incident Energy (eV)

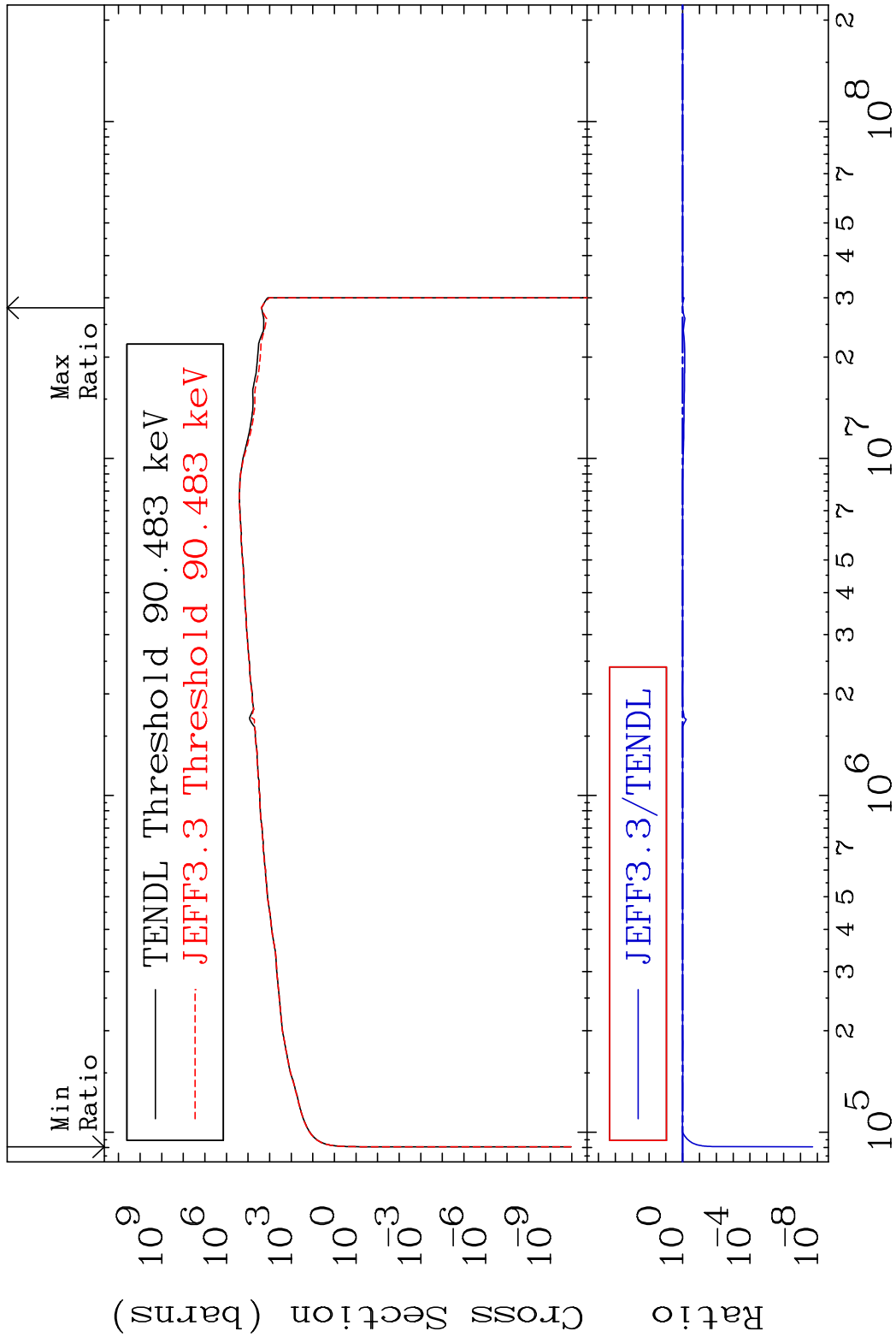
44-Ru-99

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



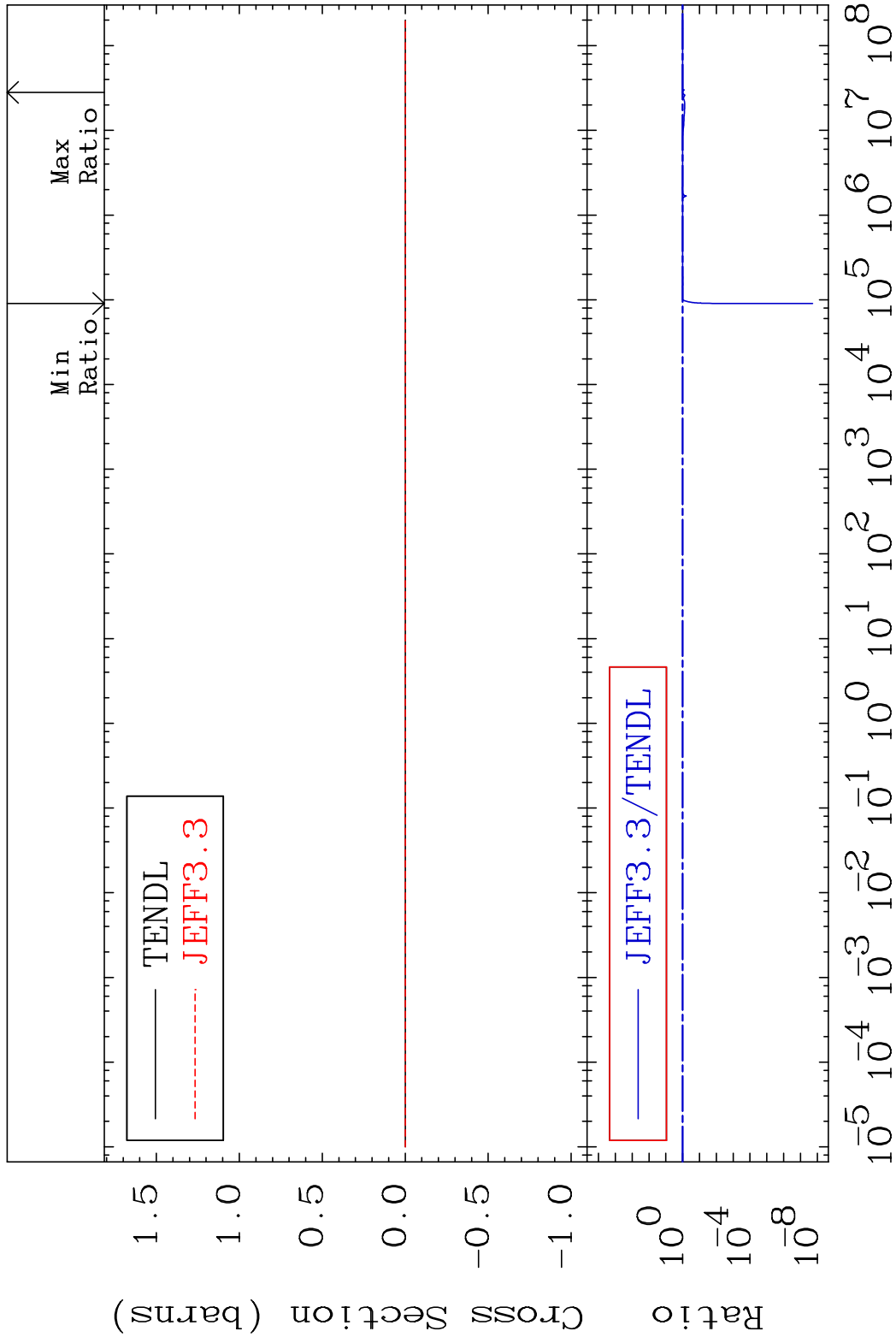
70 Incident Energy (eV) 44-Ru-99

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



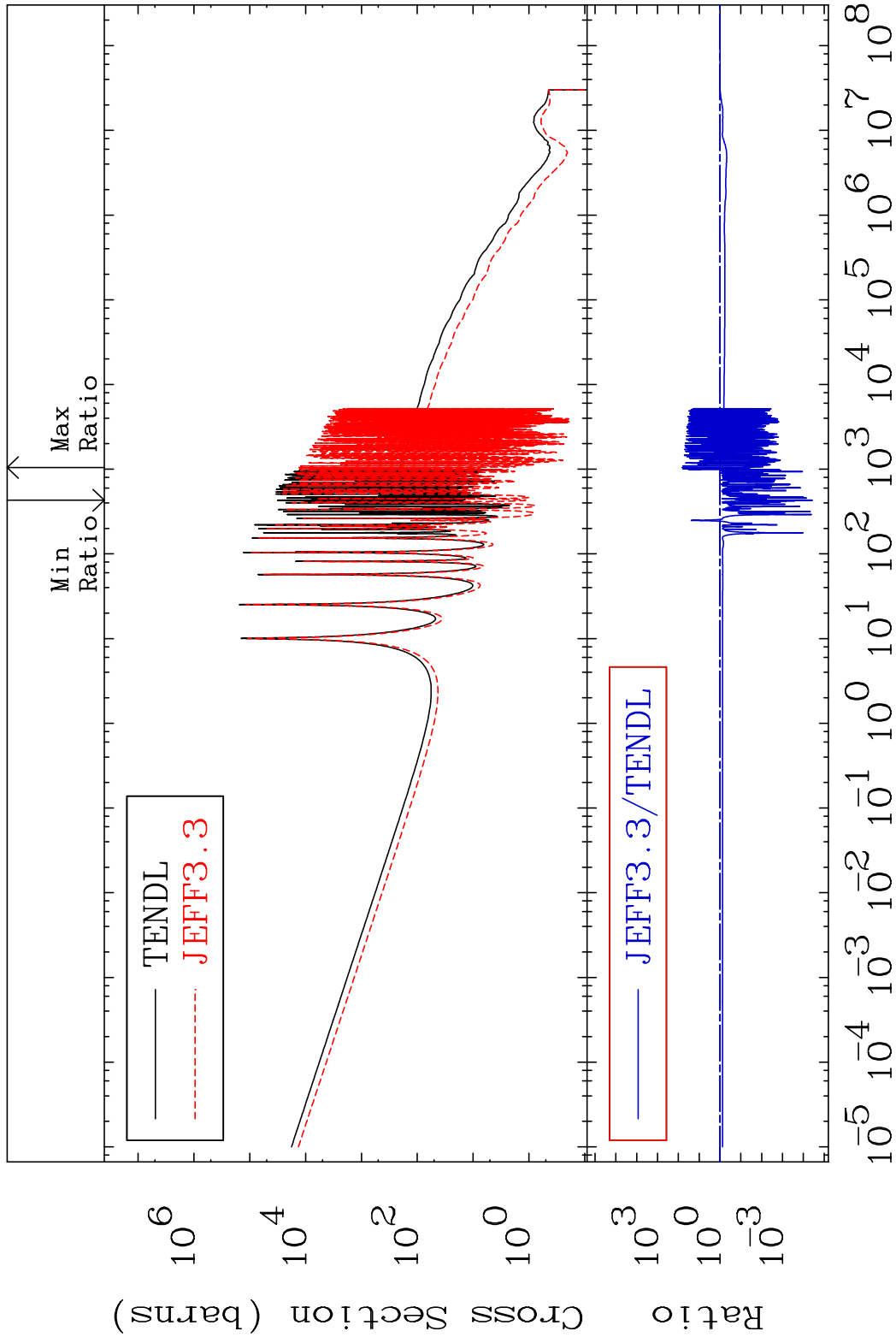
71 Incident Energy (eV) 44-Ru-99

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)

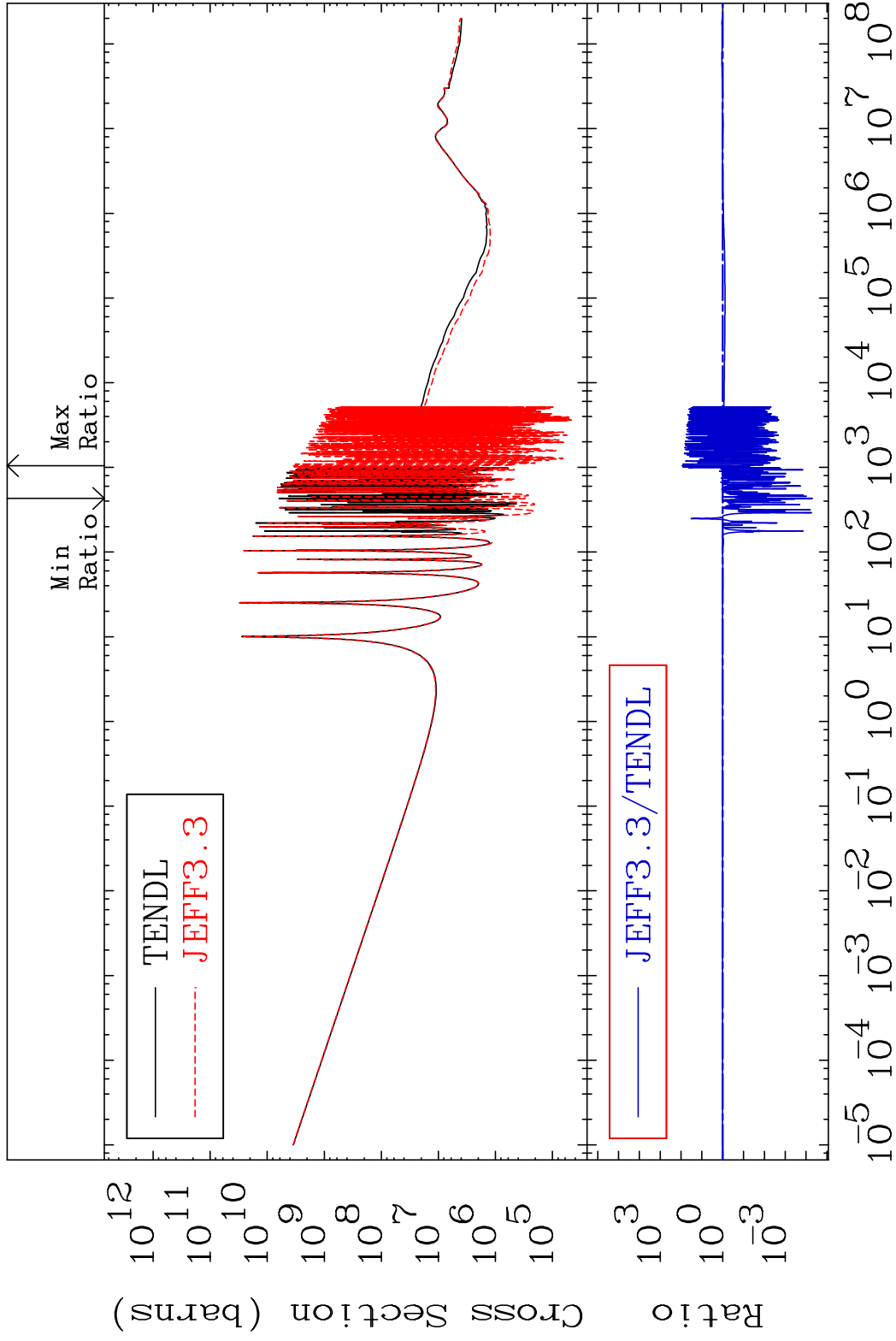
44-Ru-99

MAT 4434

Total photon (eV-barns)

44-Ru-99

Cross Section -100.0 To 8543. %

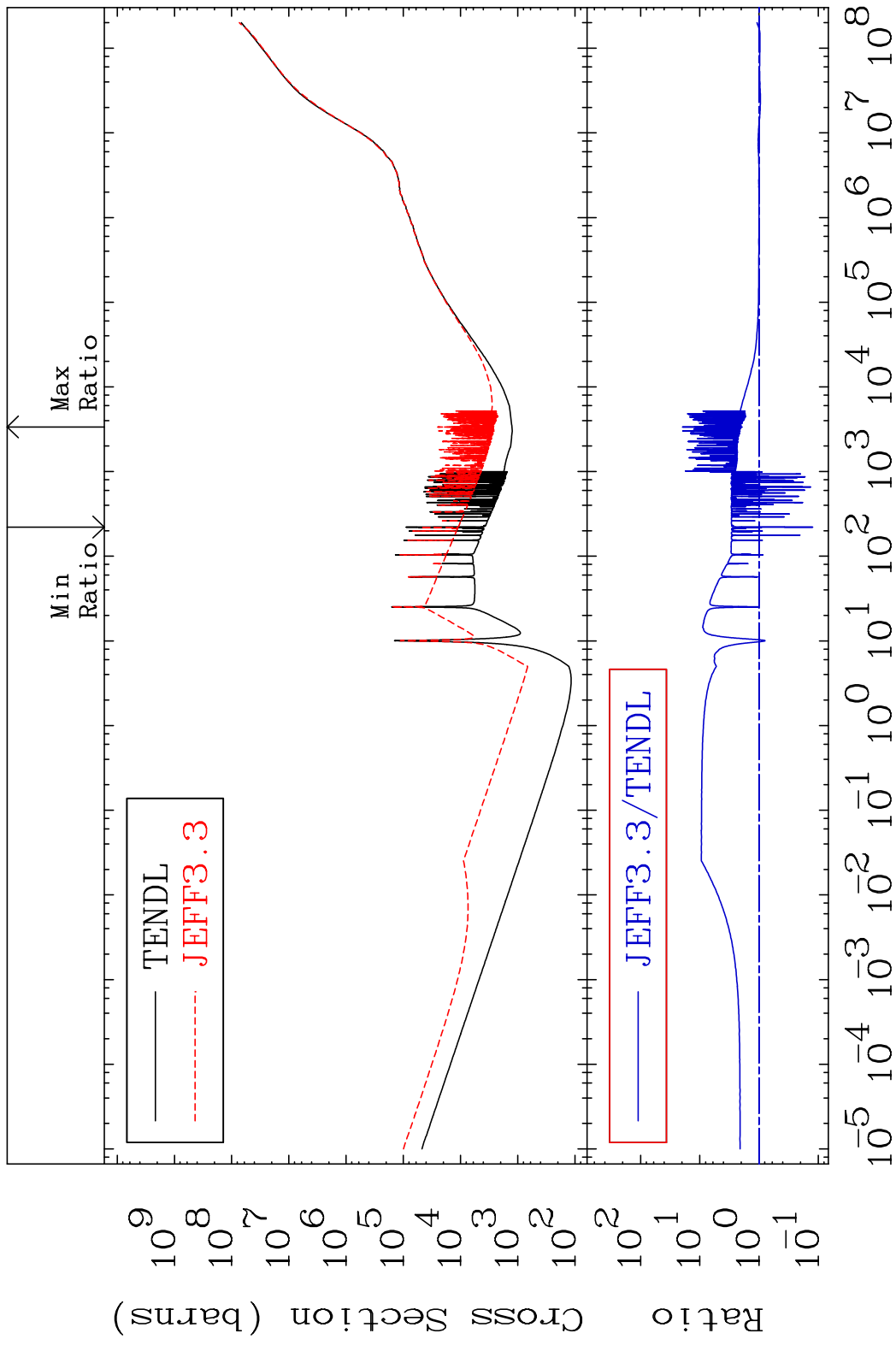


74

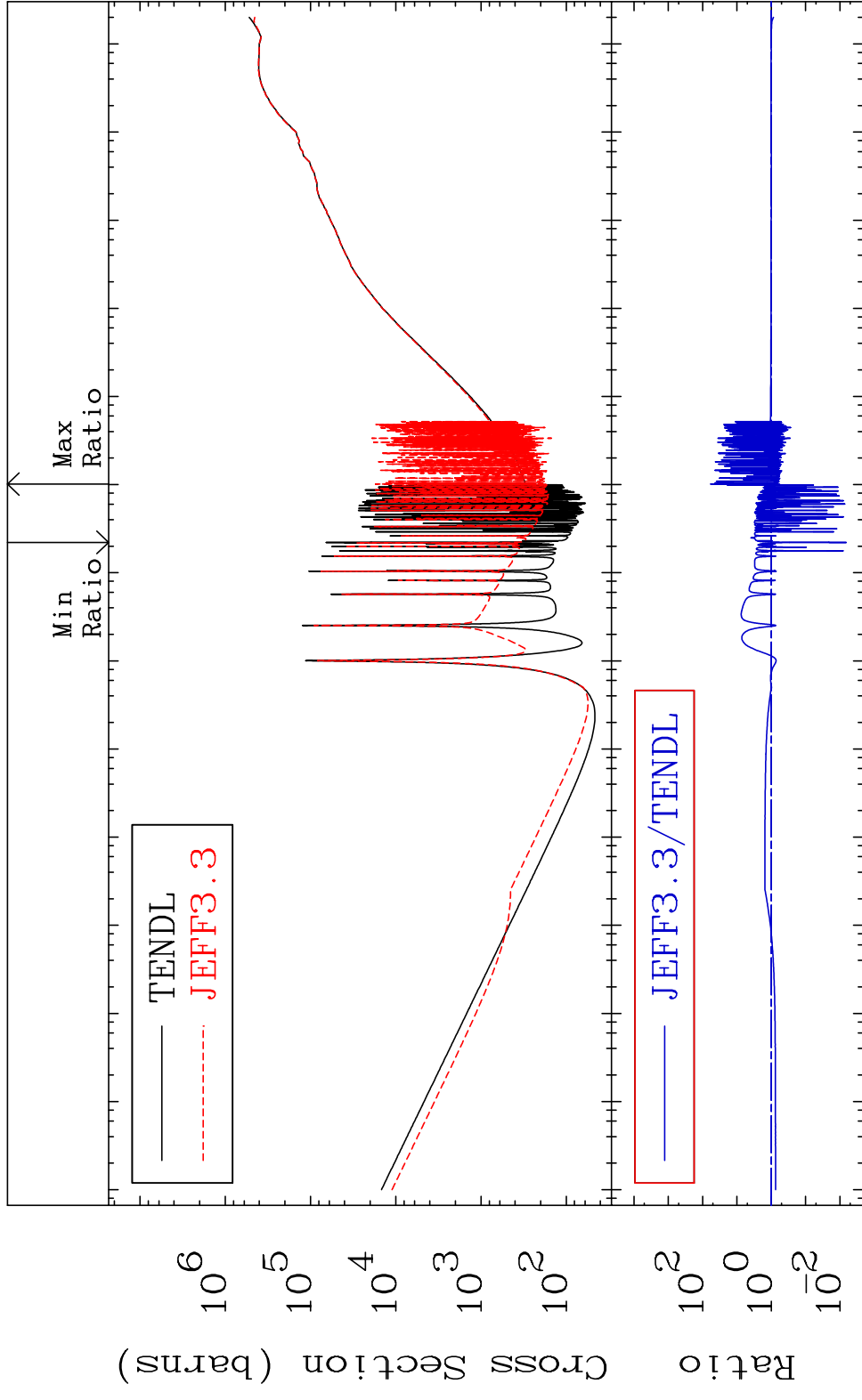
Incident Energy (eV)

44-Ru-99

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



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



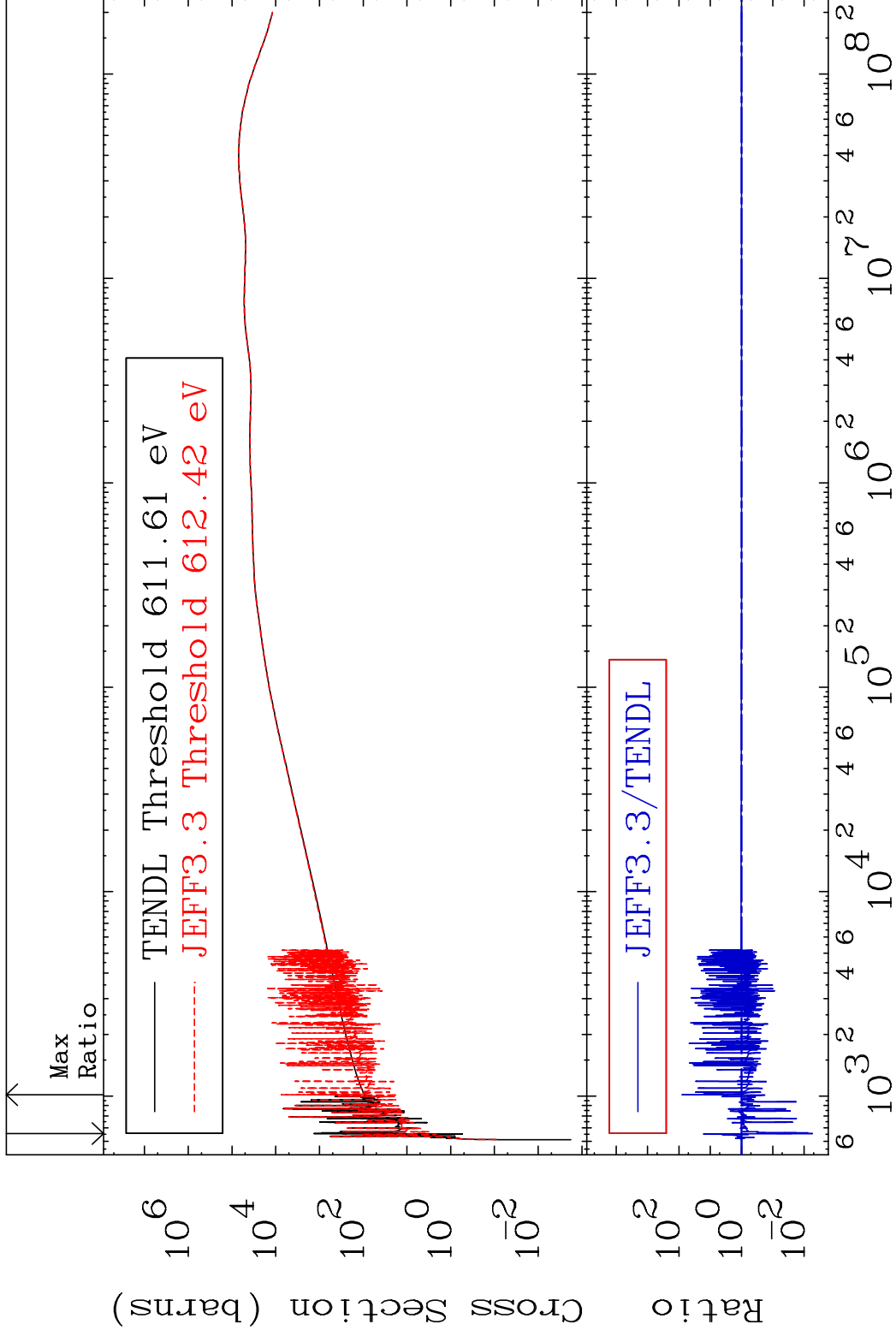
76 Incident Energy (eV) 44-Ru-99

MAT 4434

Dpa elastic (mt2)

44-Ru-99

Cross Section -99.46 To 7771. %

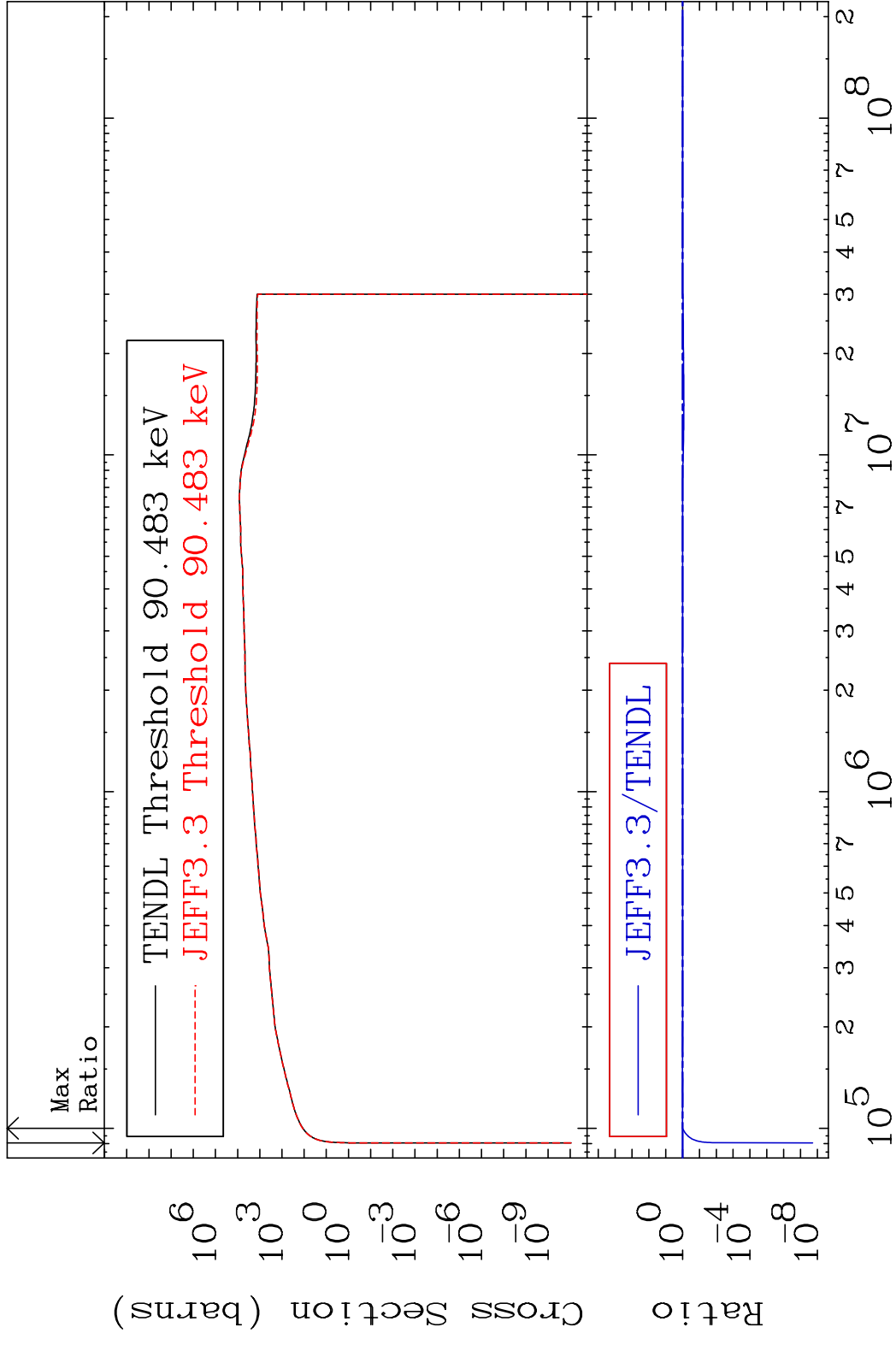


77

Incident Energy (eV)

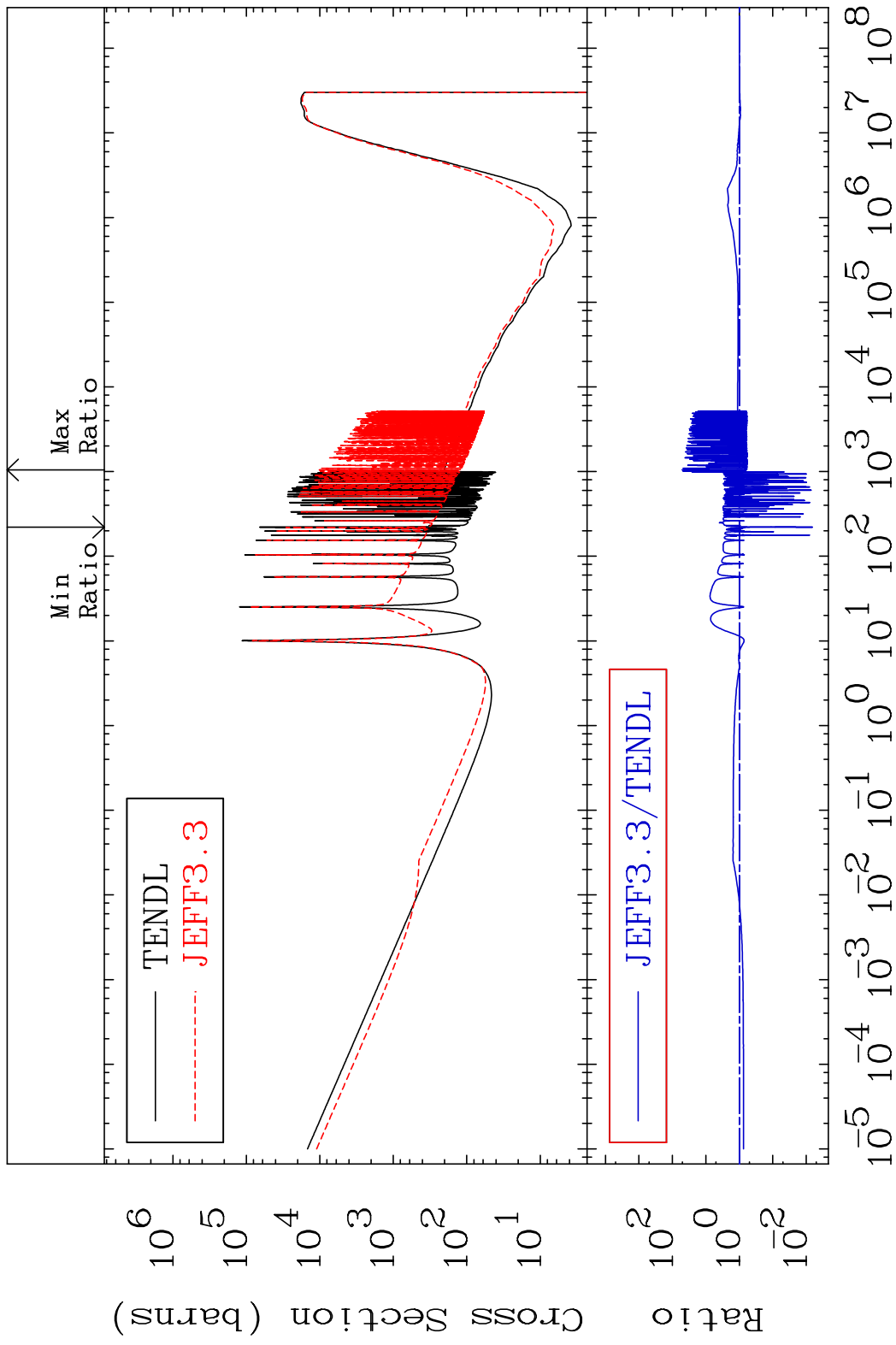
44-Ru-99

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

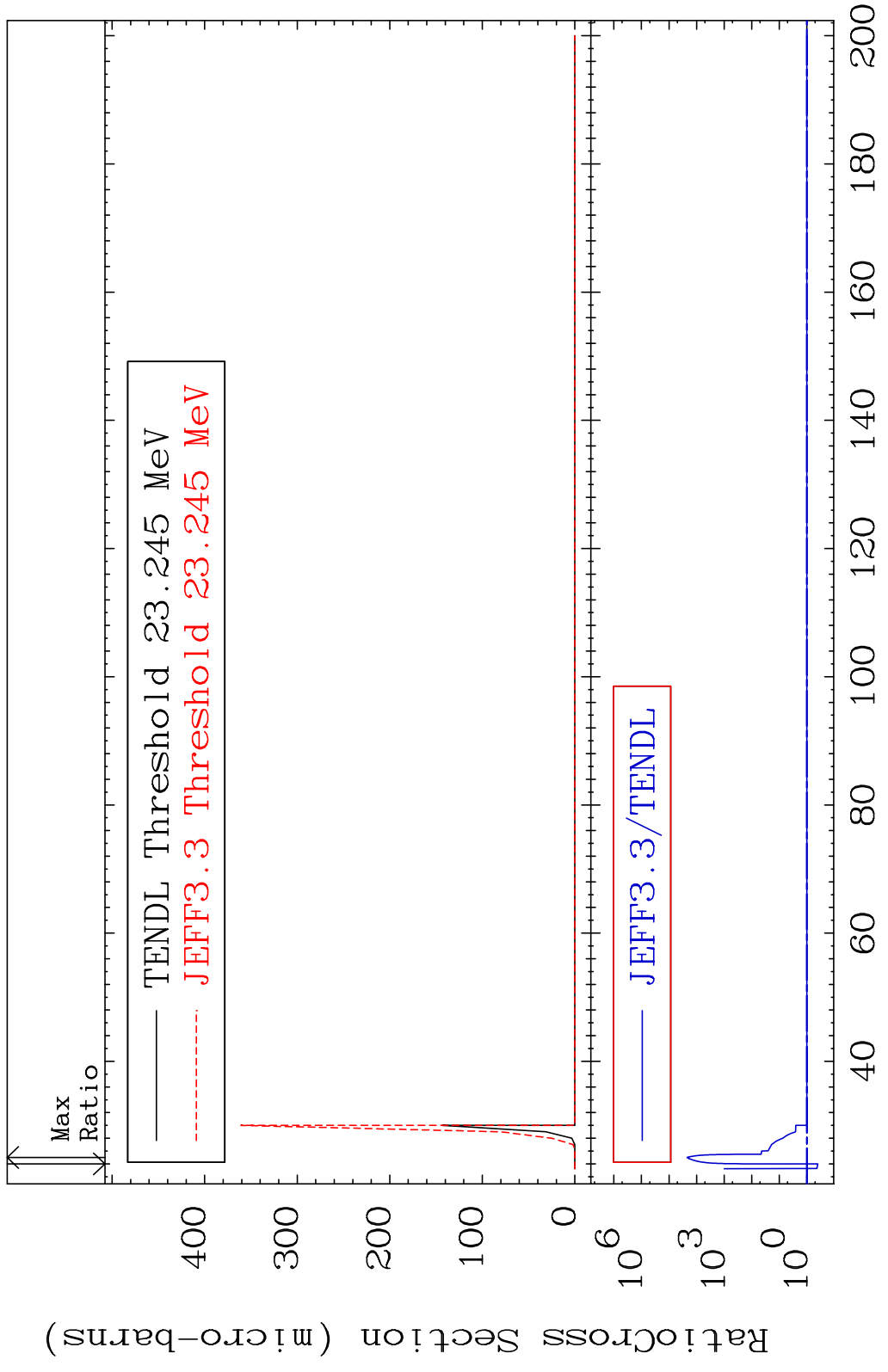


78 Incident Energy (eV) 44-Ru-99

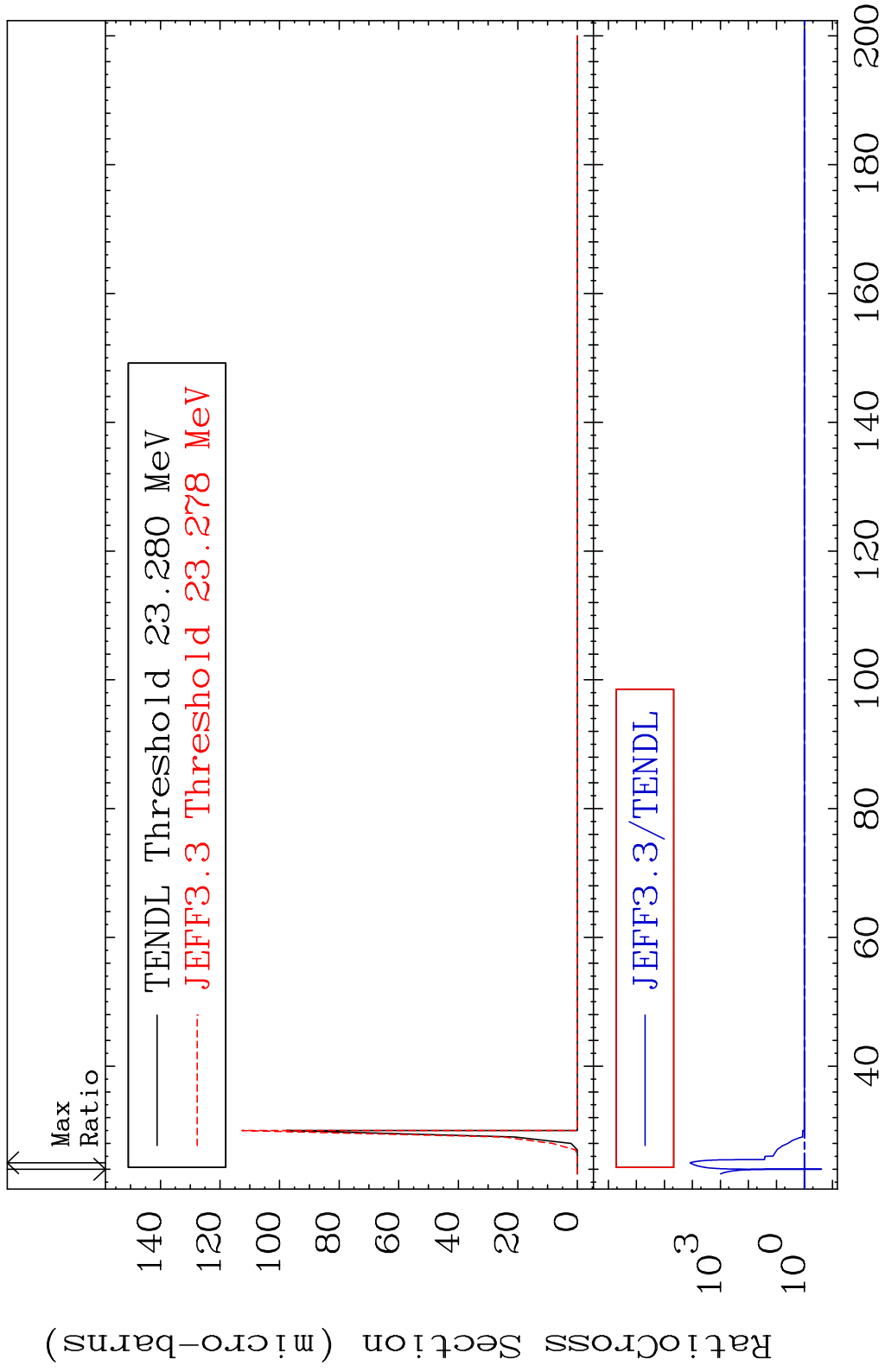
MAT 4434 Dpa disappearance (mt102 -120) 44-Ru-99
 Cross Section -99.35 To 4937. %

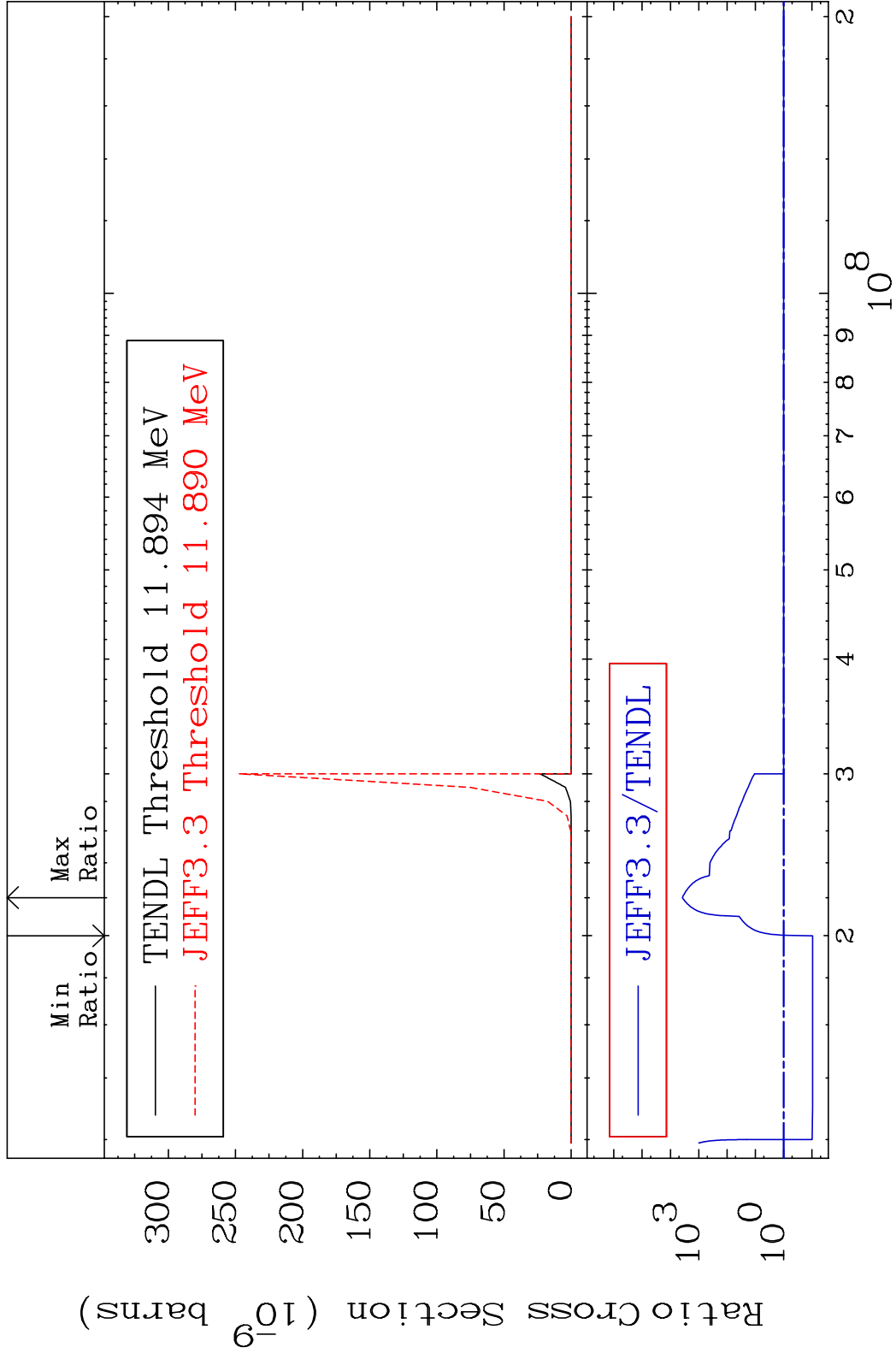


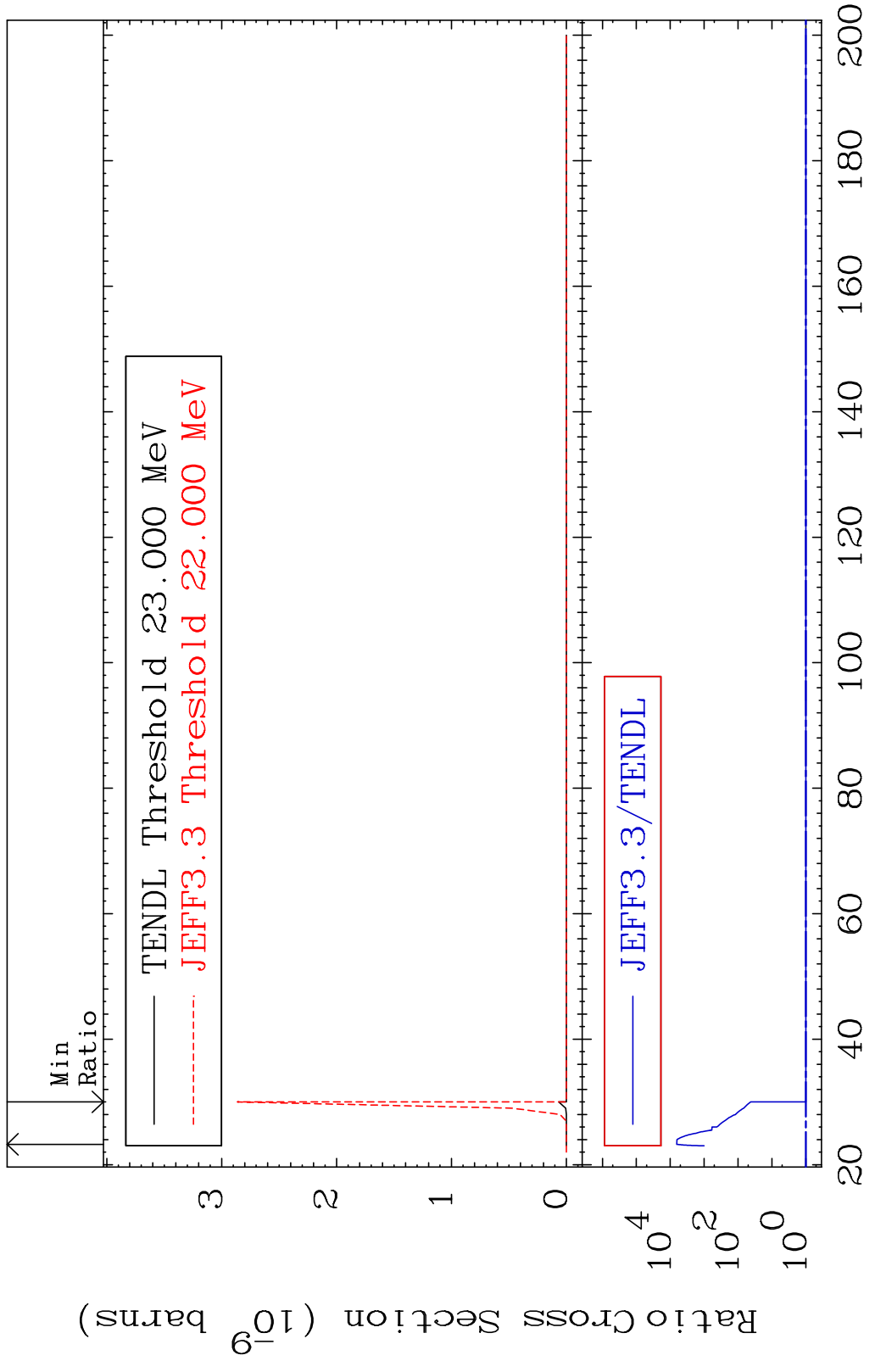
MAT 4434 (n,2n) d:43-Tc-96g 44-Ru-99
 Radionuclide Production Cross Section 59.681 d10 9999. %

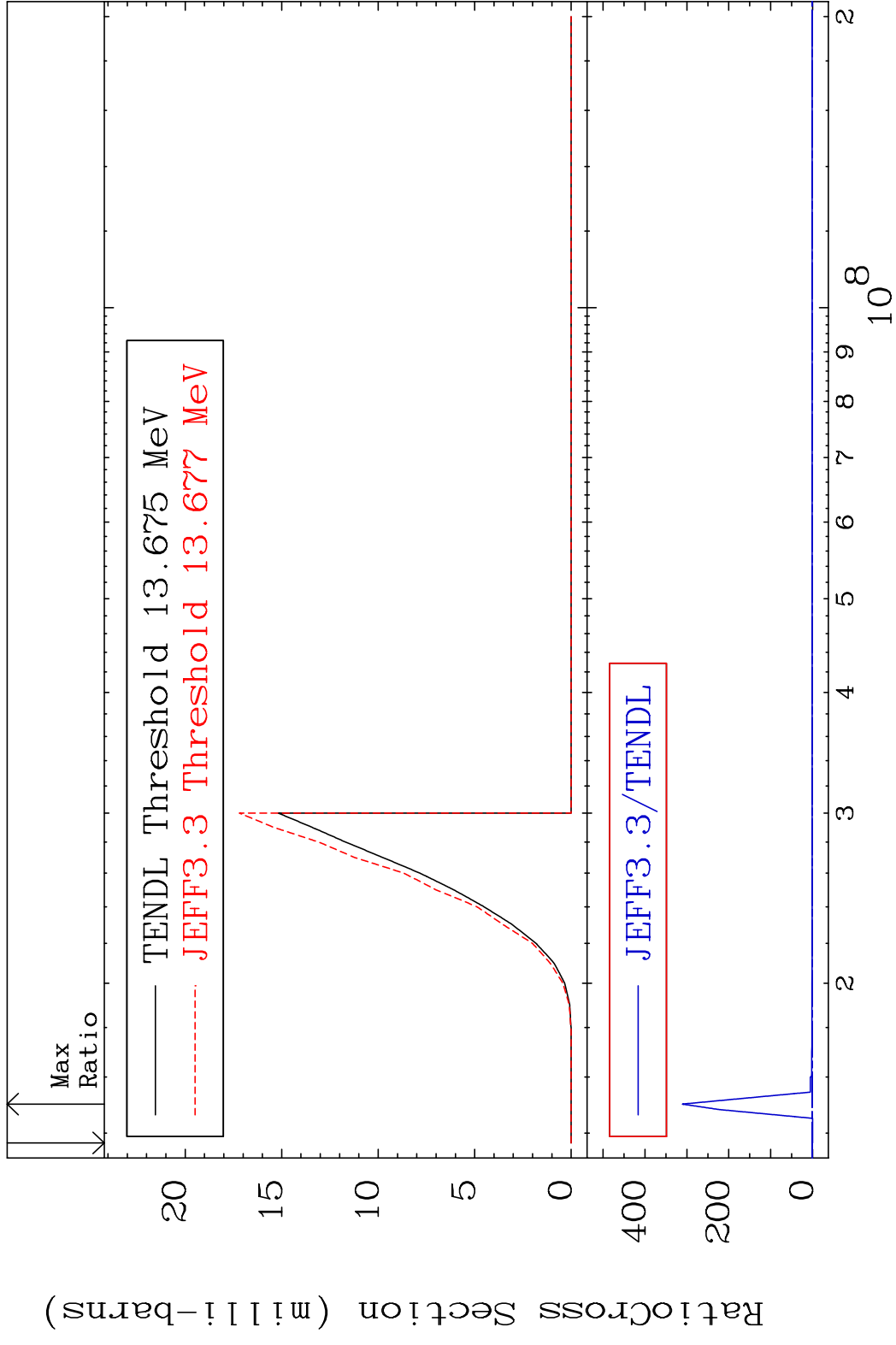


80 Incident Energy (MeV) 44-Ru-99

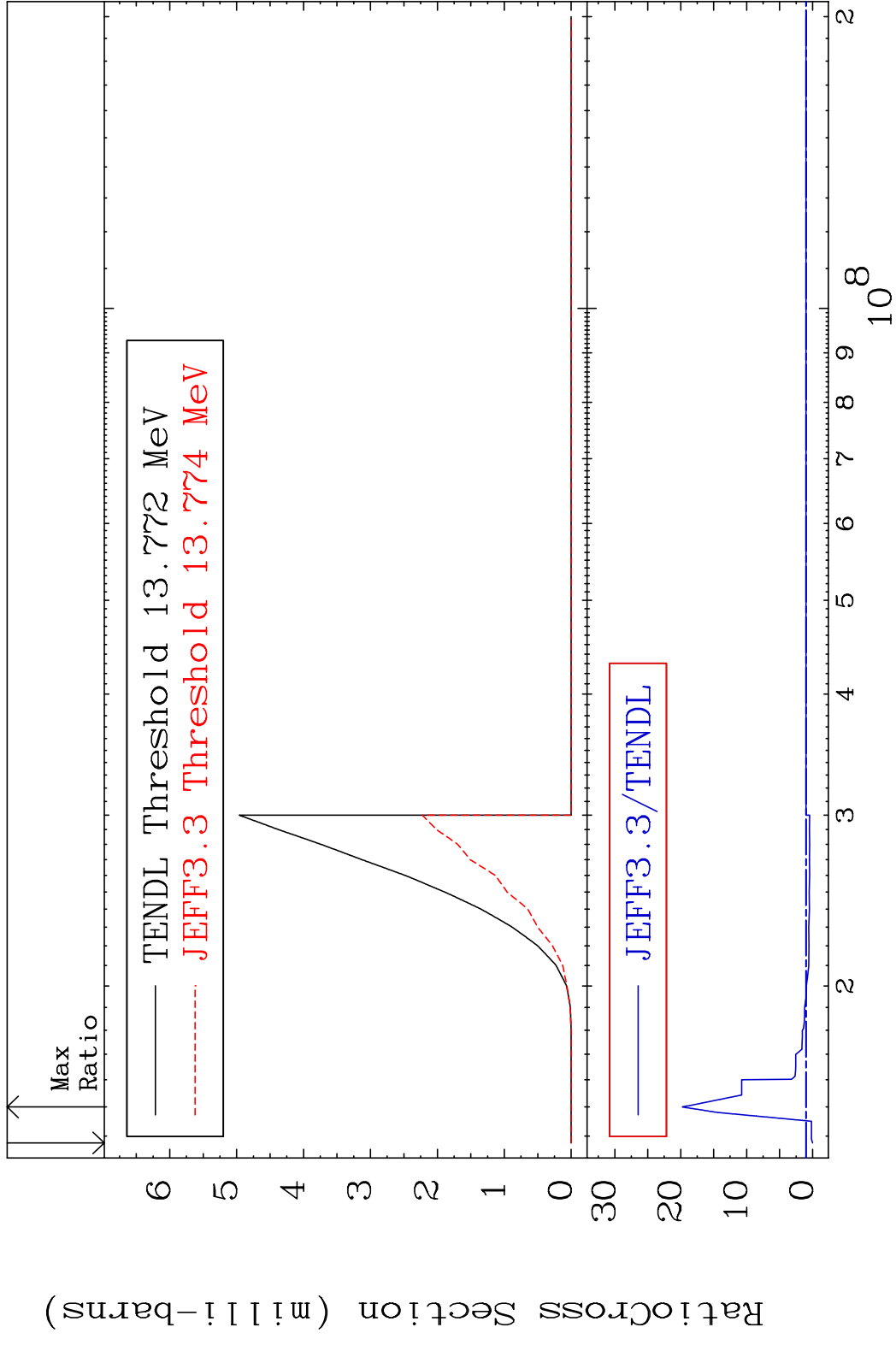




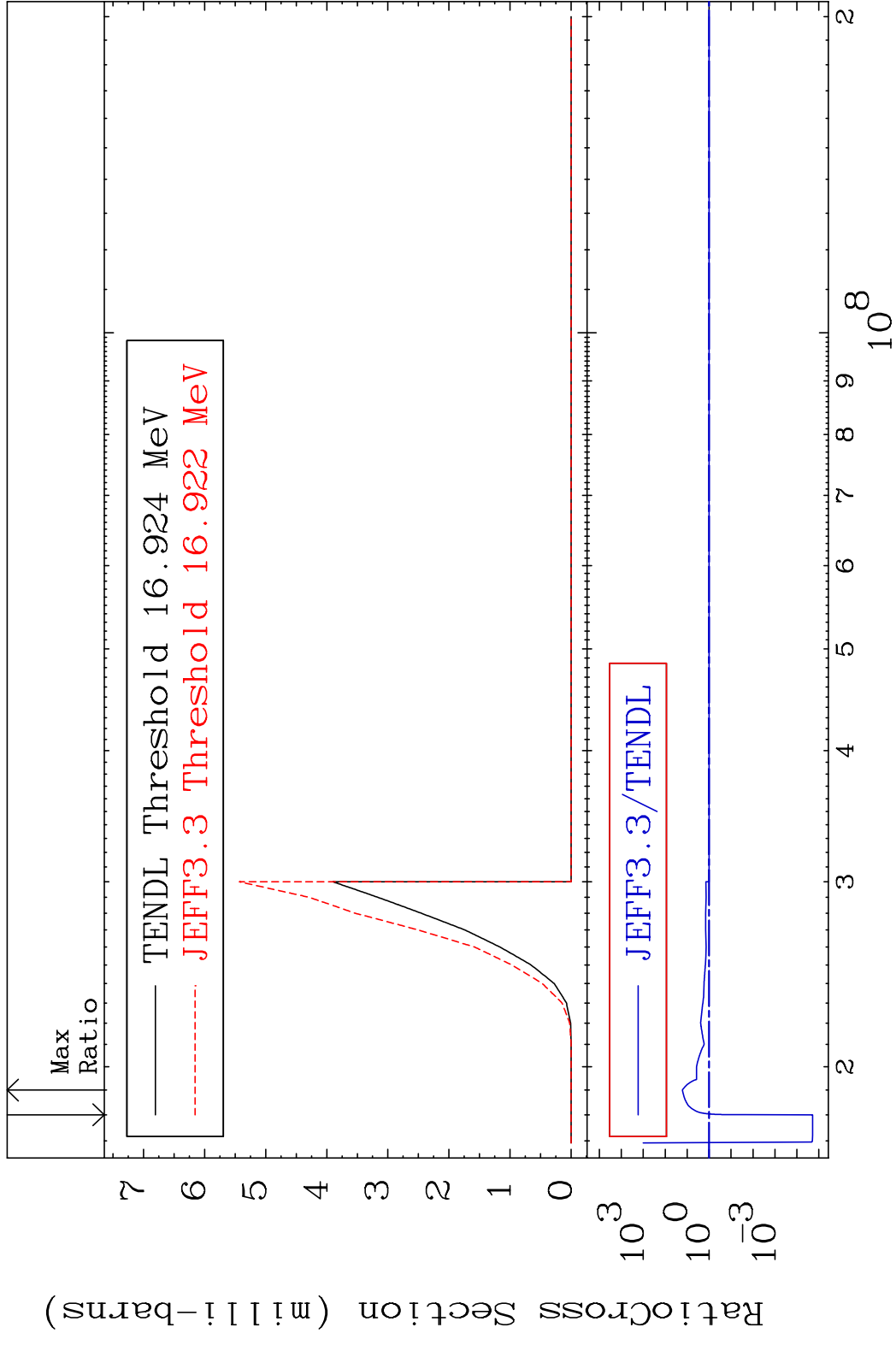




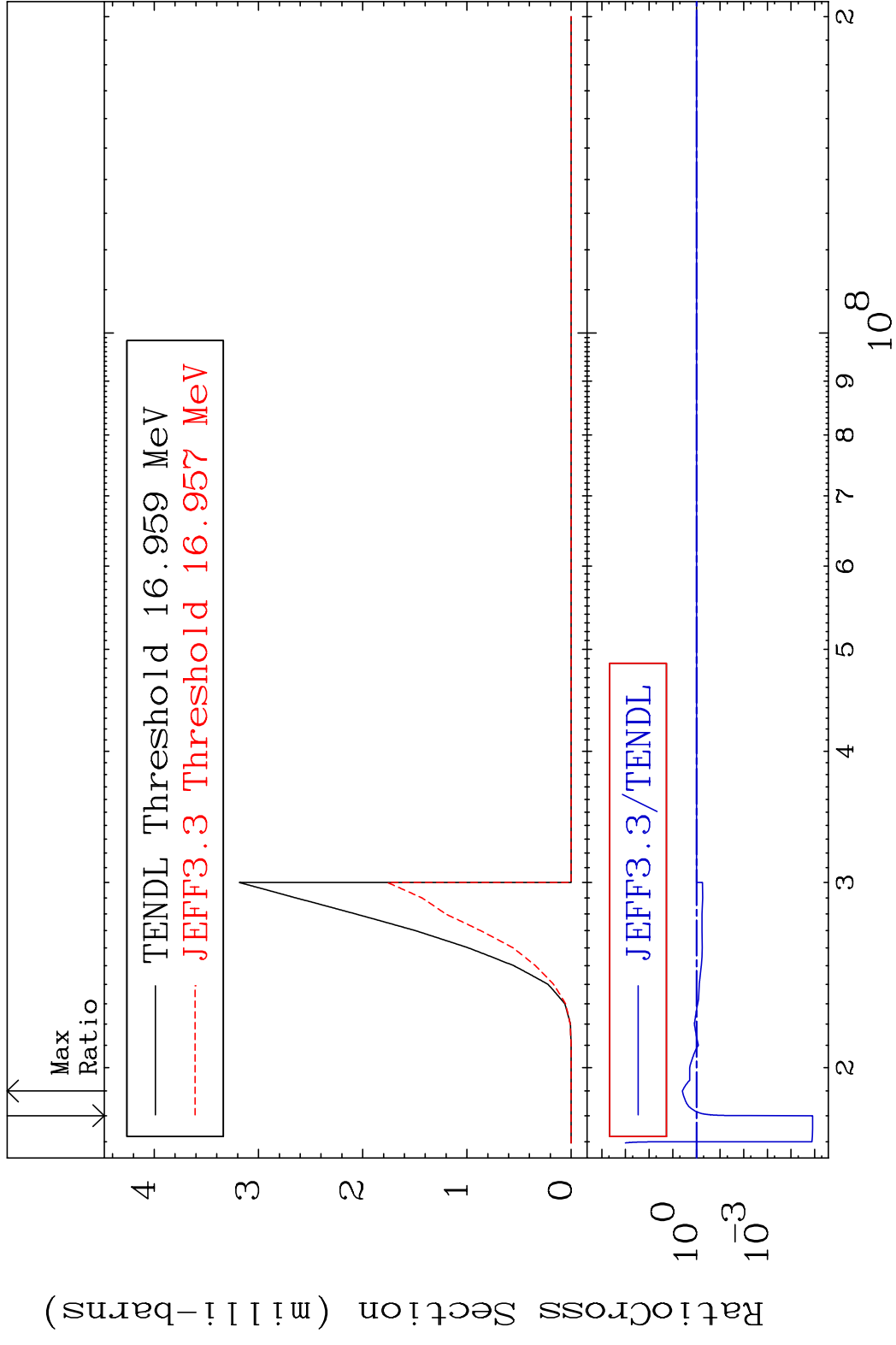
MAT 4434 (n, n') d:43-Tc-97m1 44-Ru-99
 Radionuclide Production Cross Section 1875. %

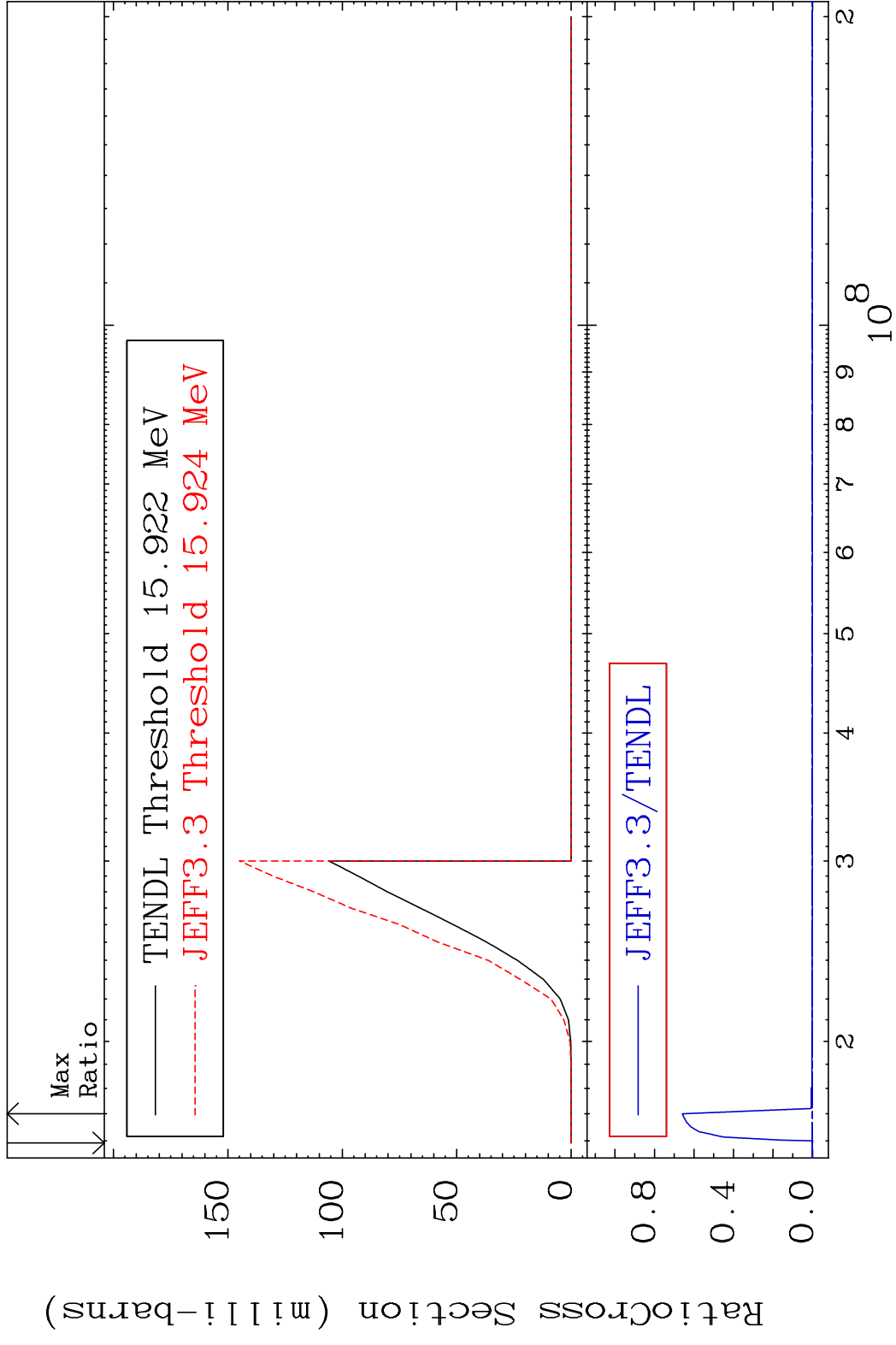


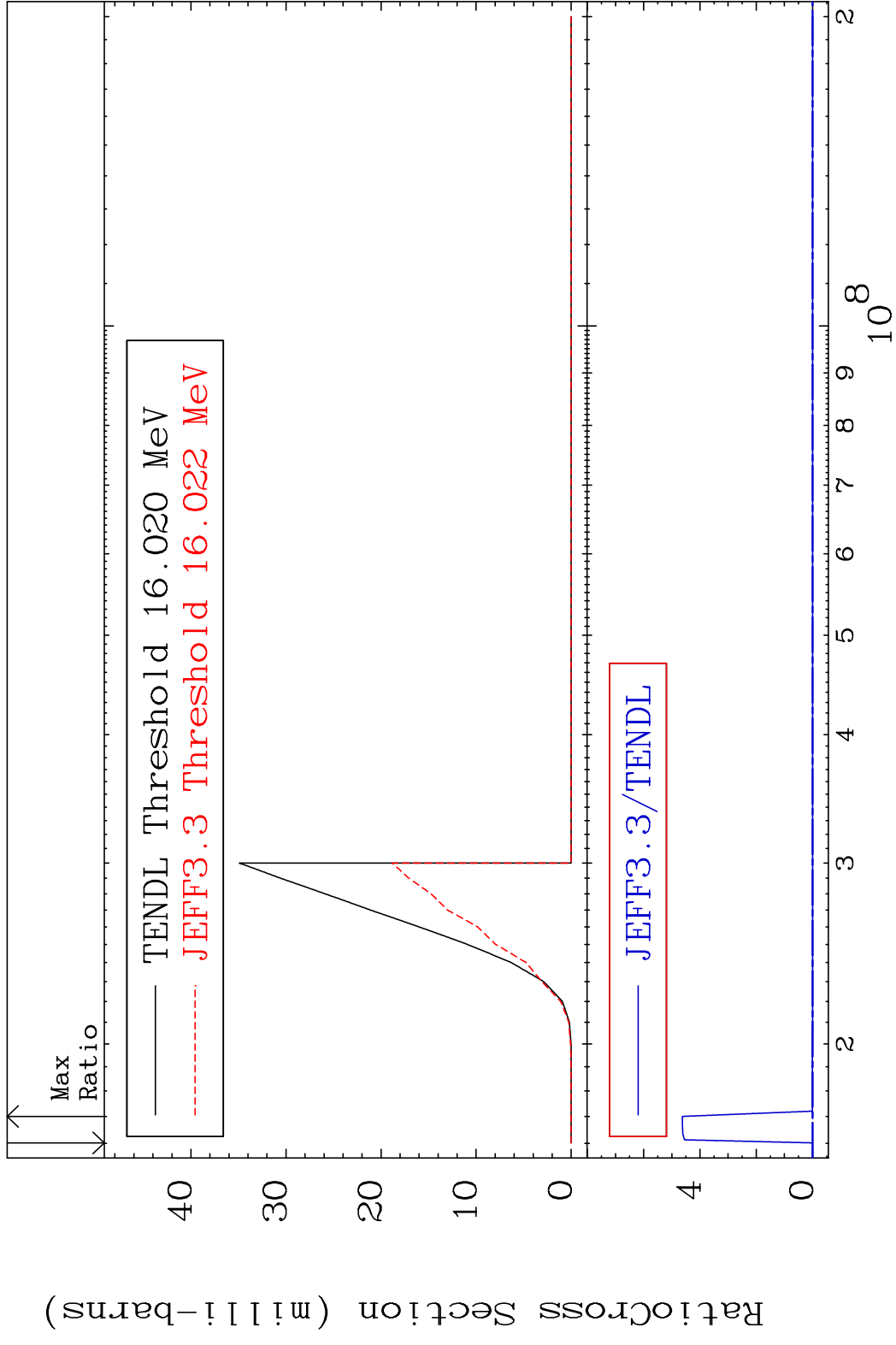
MAT 4434 (n, n') t:43-Tc-96g 44-Ru-99
 Radionuclide Production Cross Section 1553. %

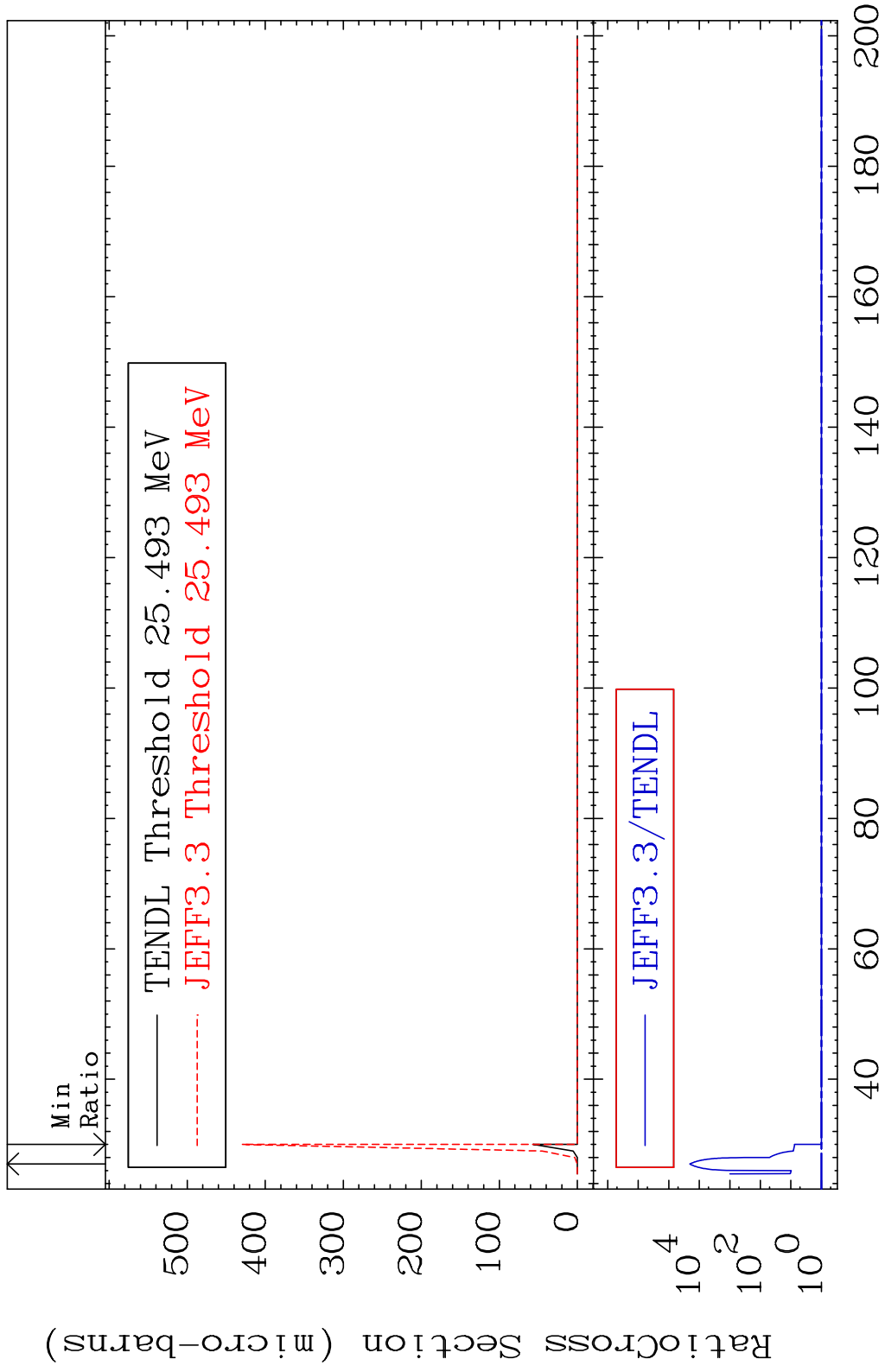


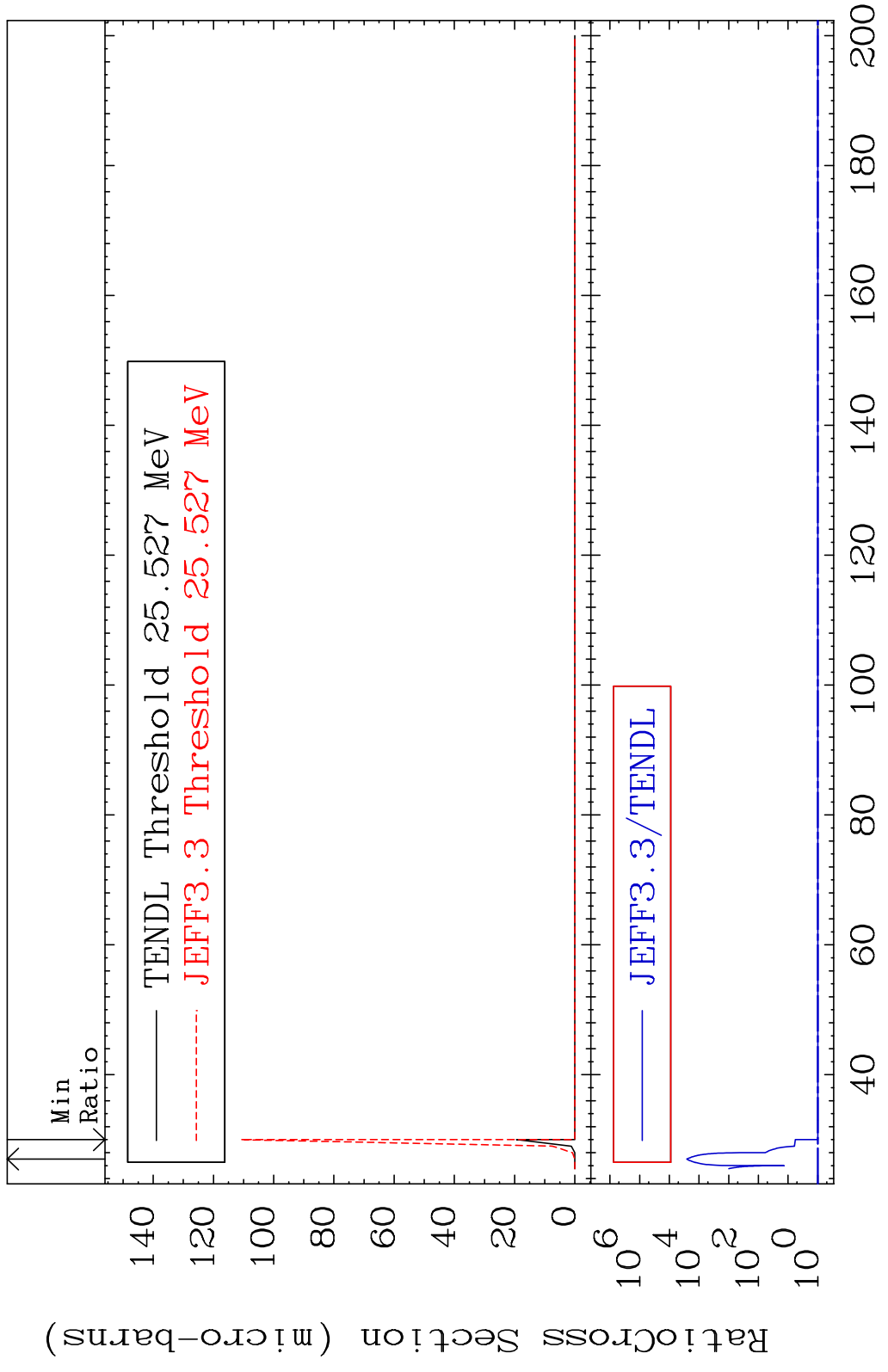
MAT 4434 (n, n') t:43-Tc-96m1 44-Ru-99
 Radionuclide Production Cross Section Ratio 293.6 %

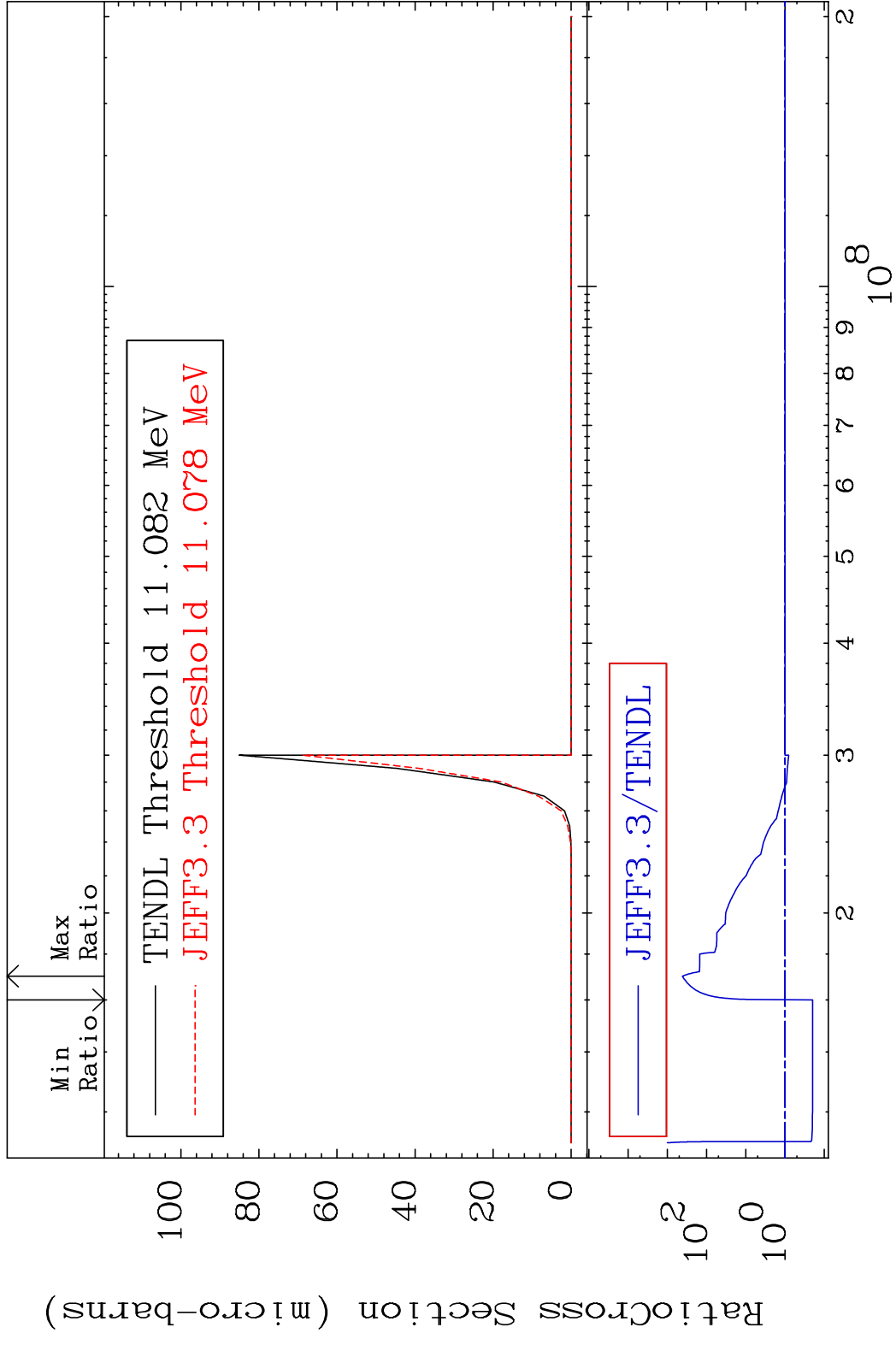


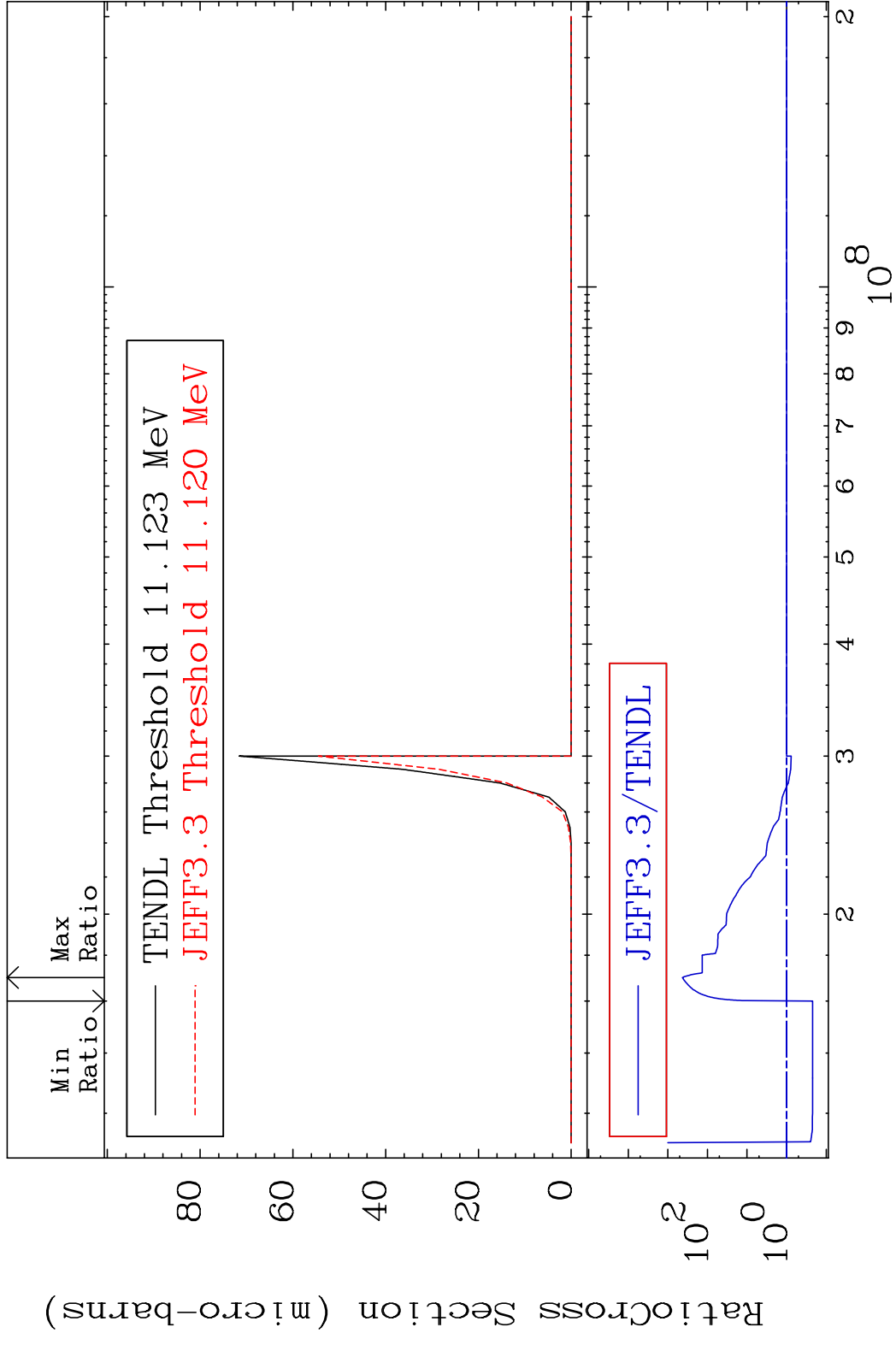




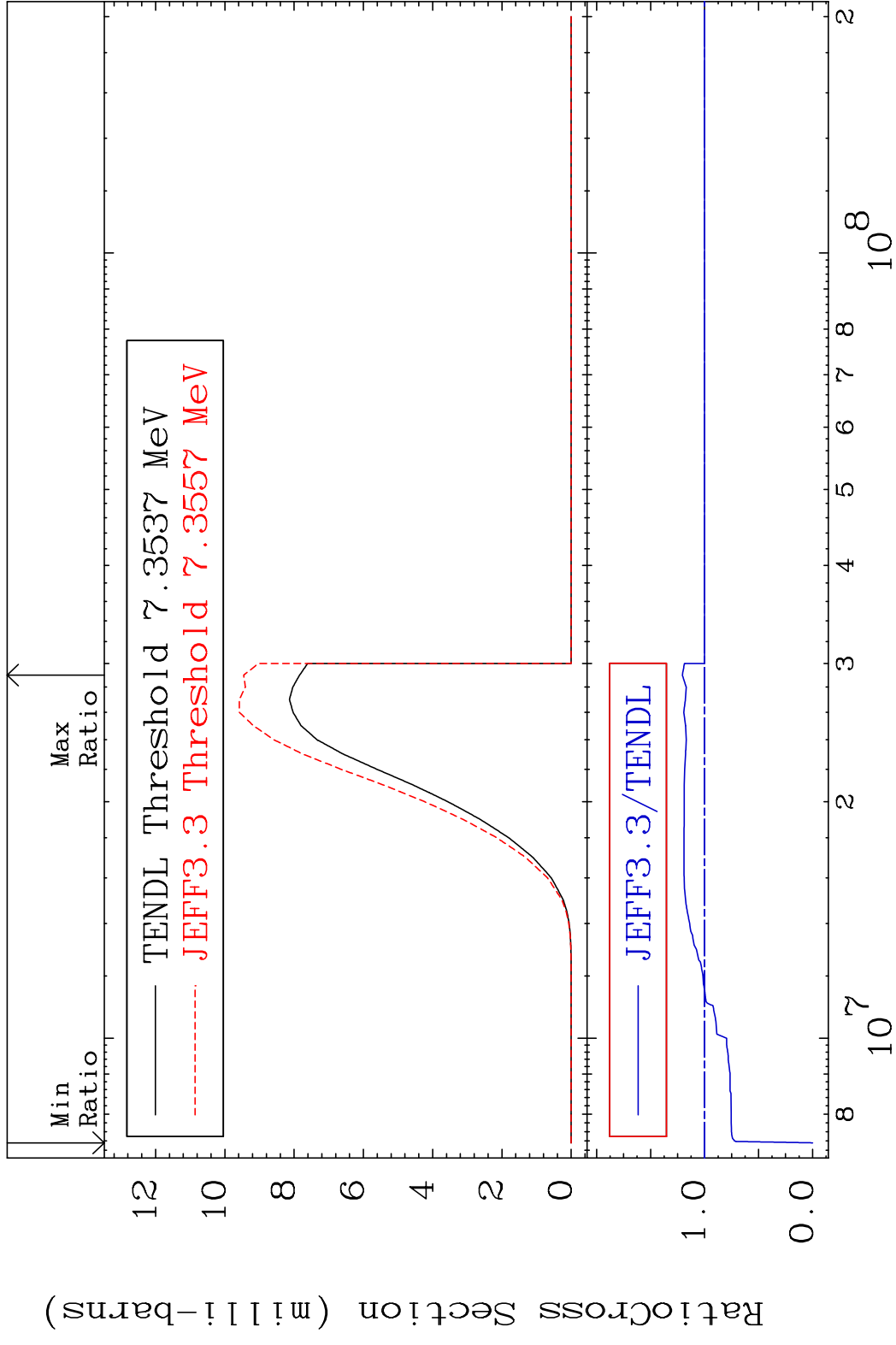




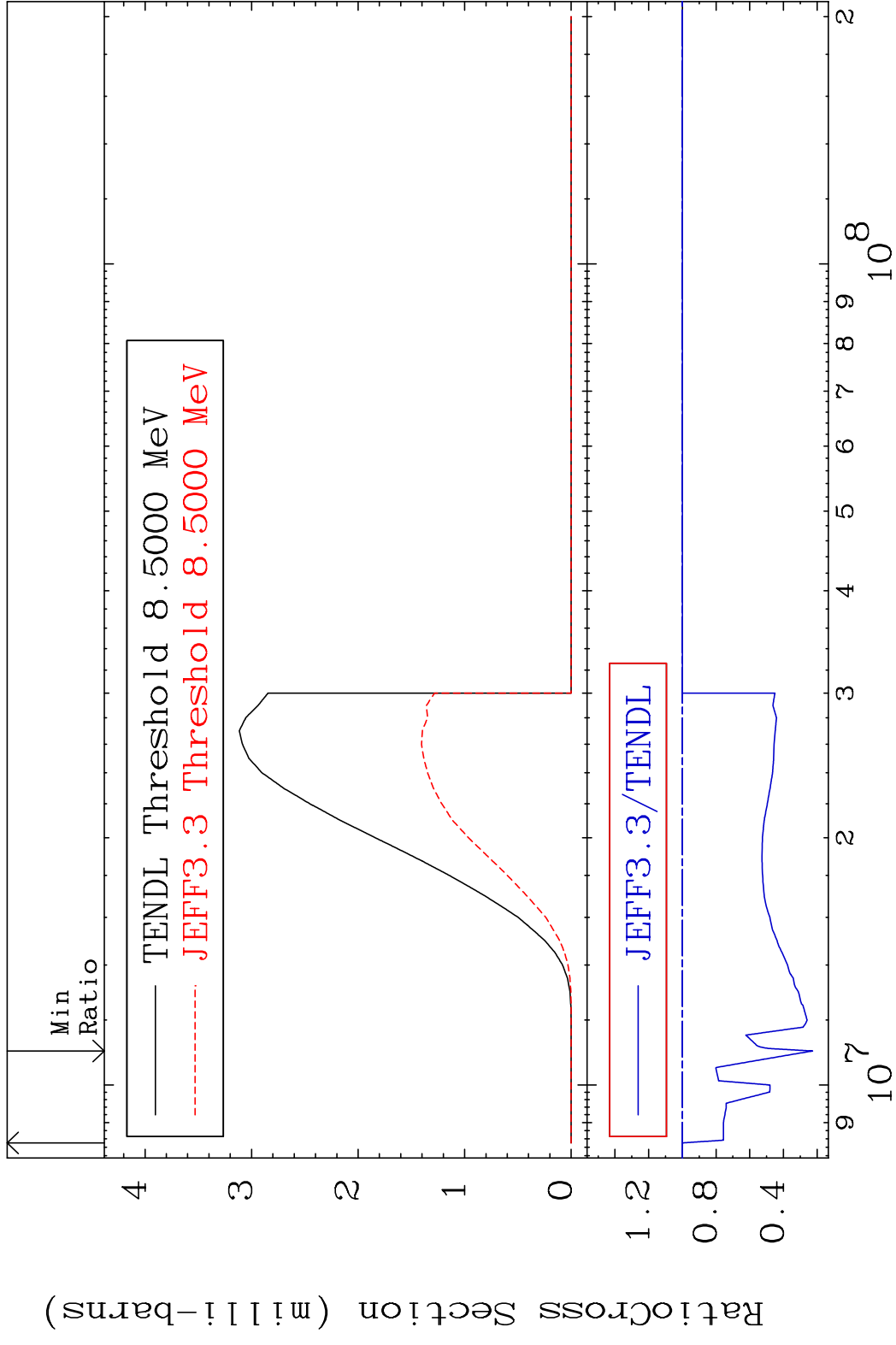




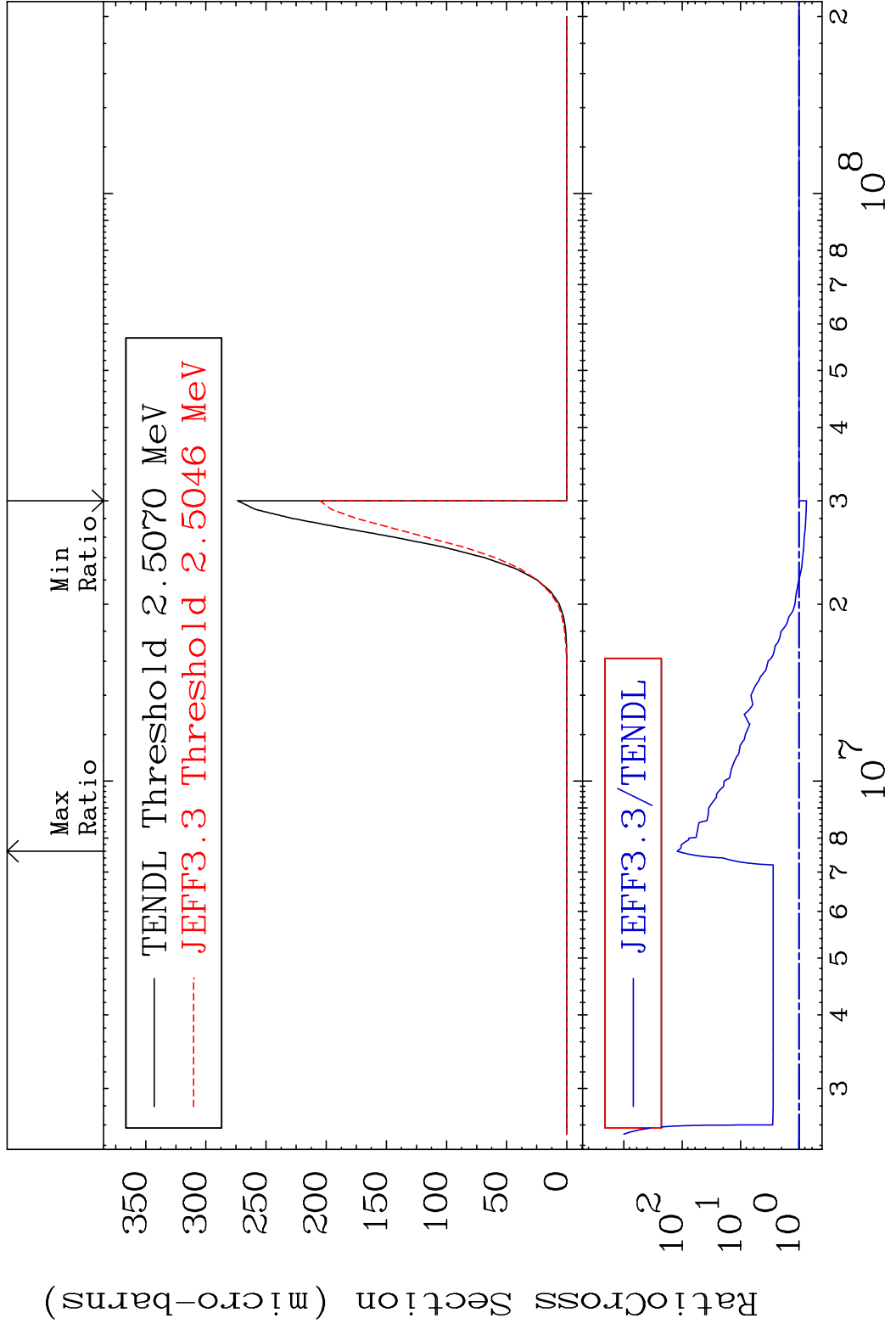
MAT 4434 (n, t): 43-Tc-97g 44-Ru-99
 Radionuclide Production Cross Section Ratio 20.59 %

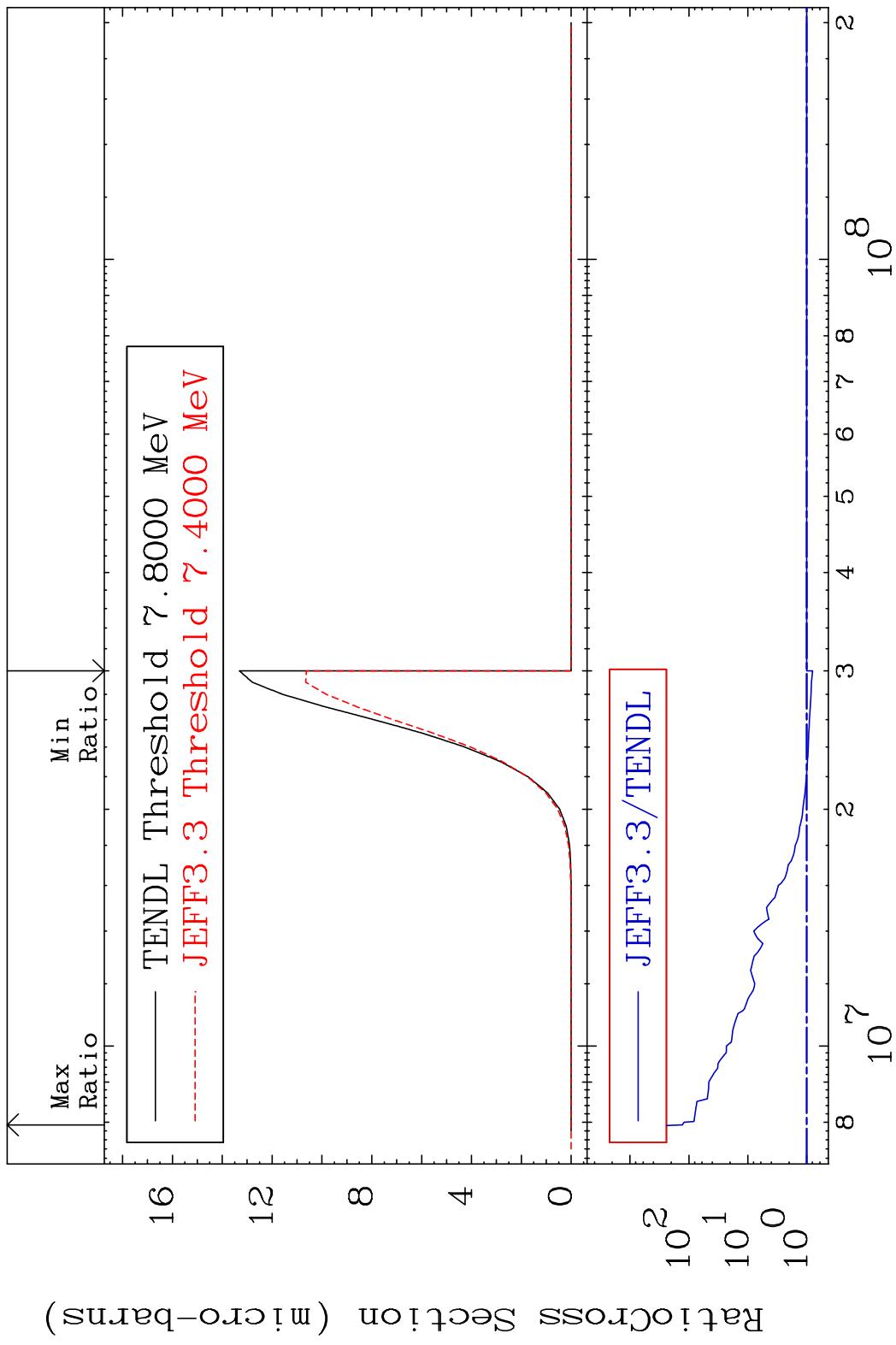


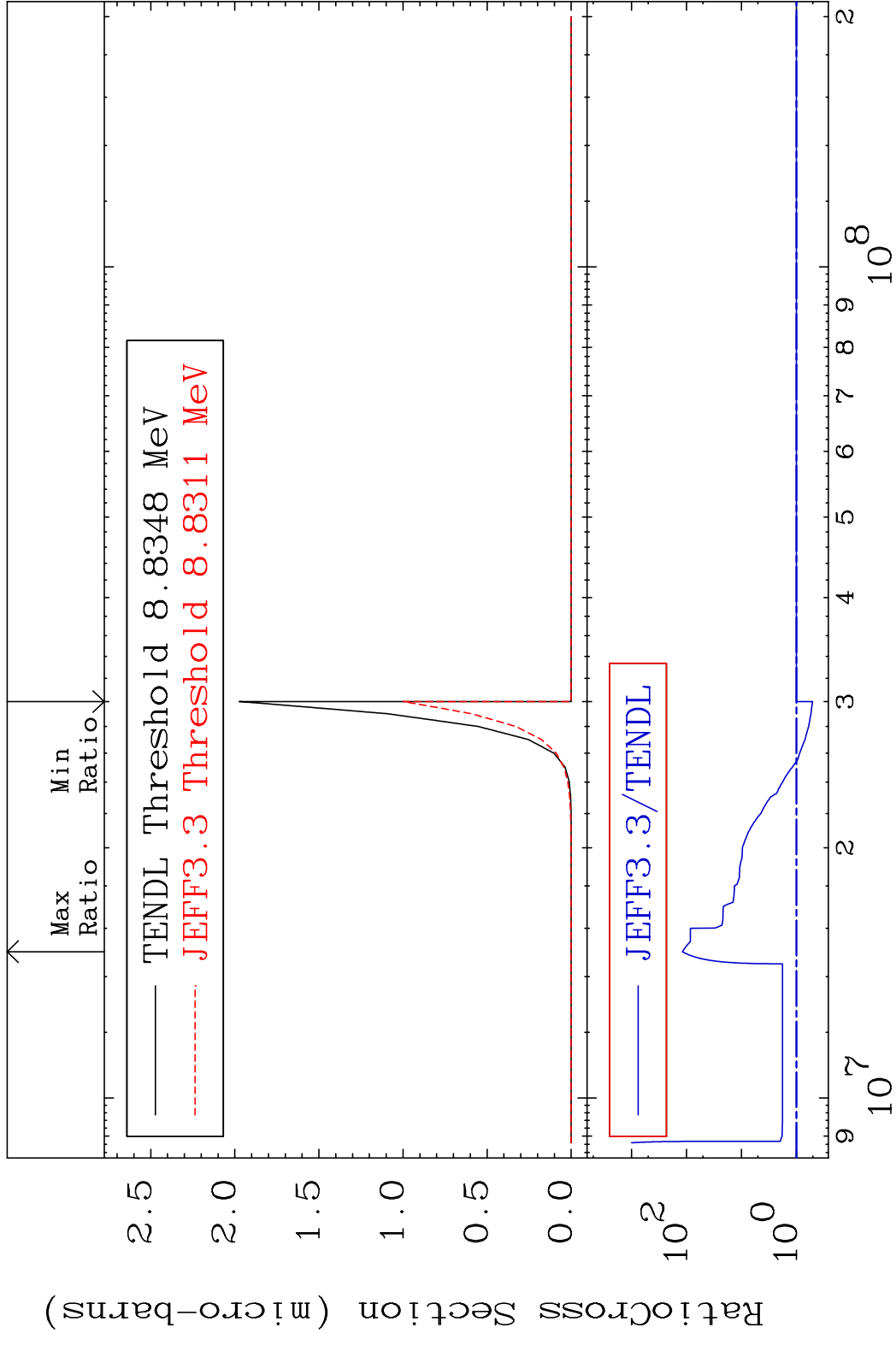
MAT 4434 (n, t): 43-Tc-97m1 44-Ru-99
 Radionuclide Production Cross Section 0.000 %



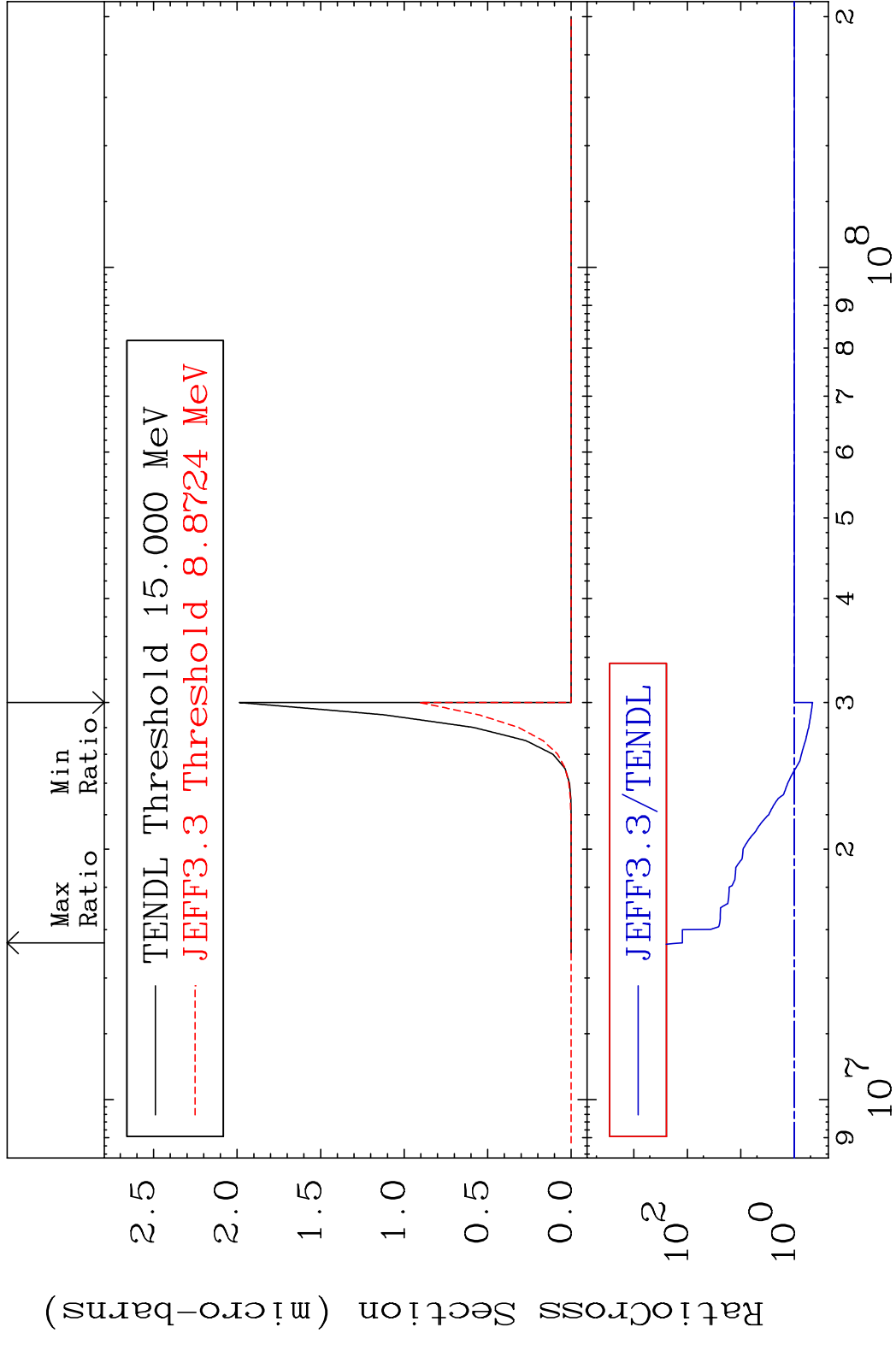
95 44-Ru-99







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



99 Incident Energy (eV) 44-Ru-99