

Program Complot
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

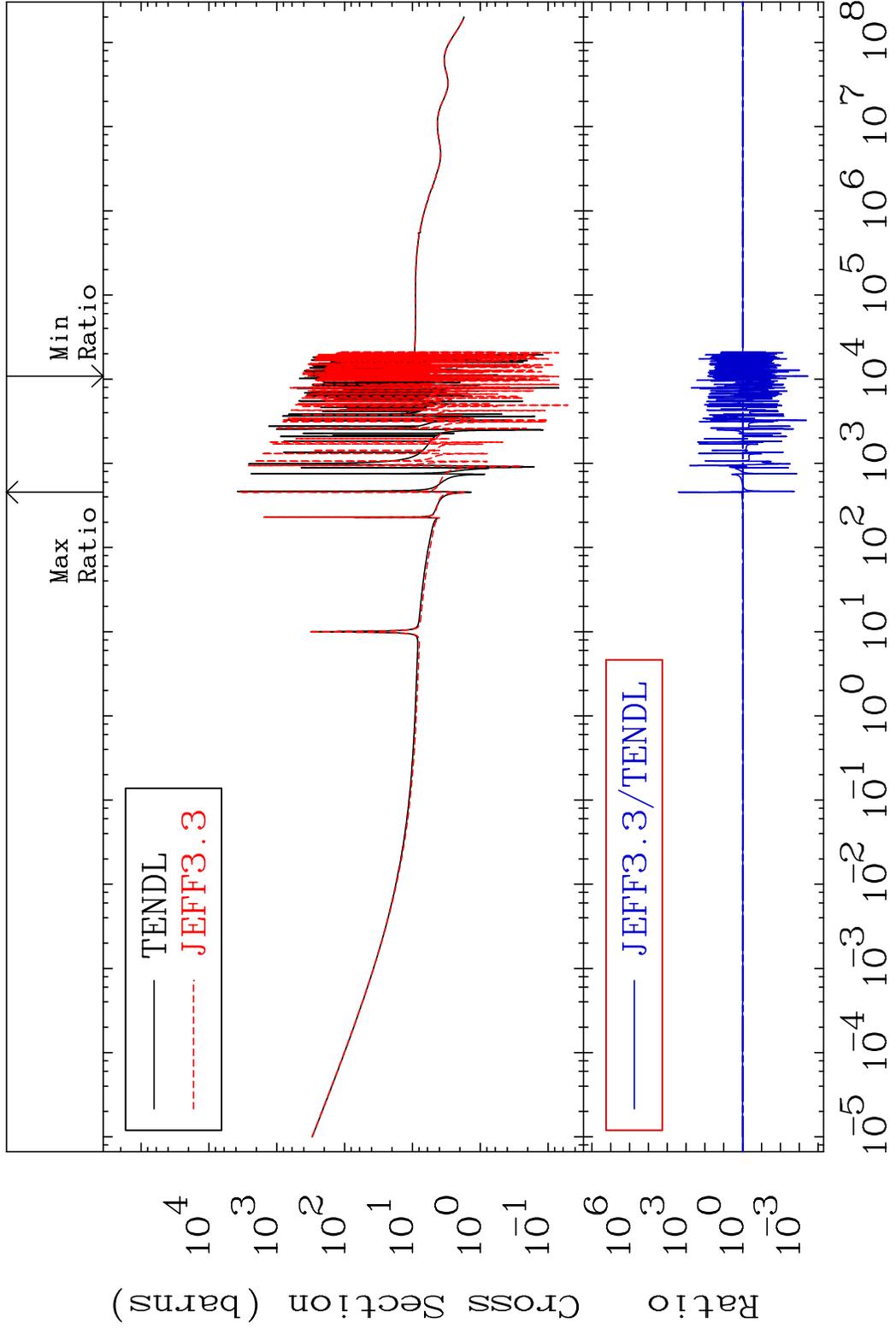
U.S.A.

Tele: 925-443-1911

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

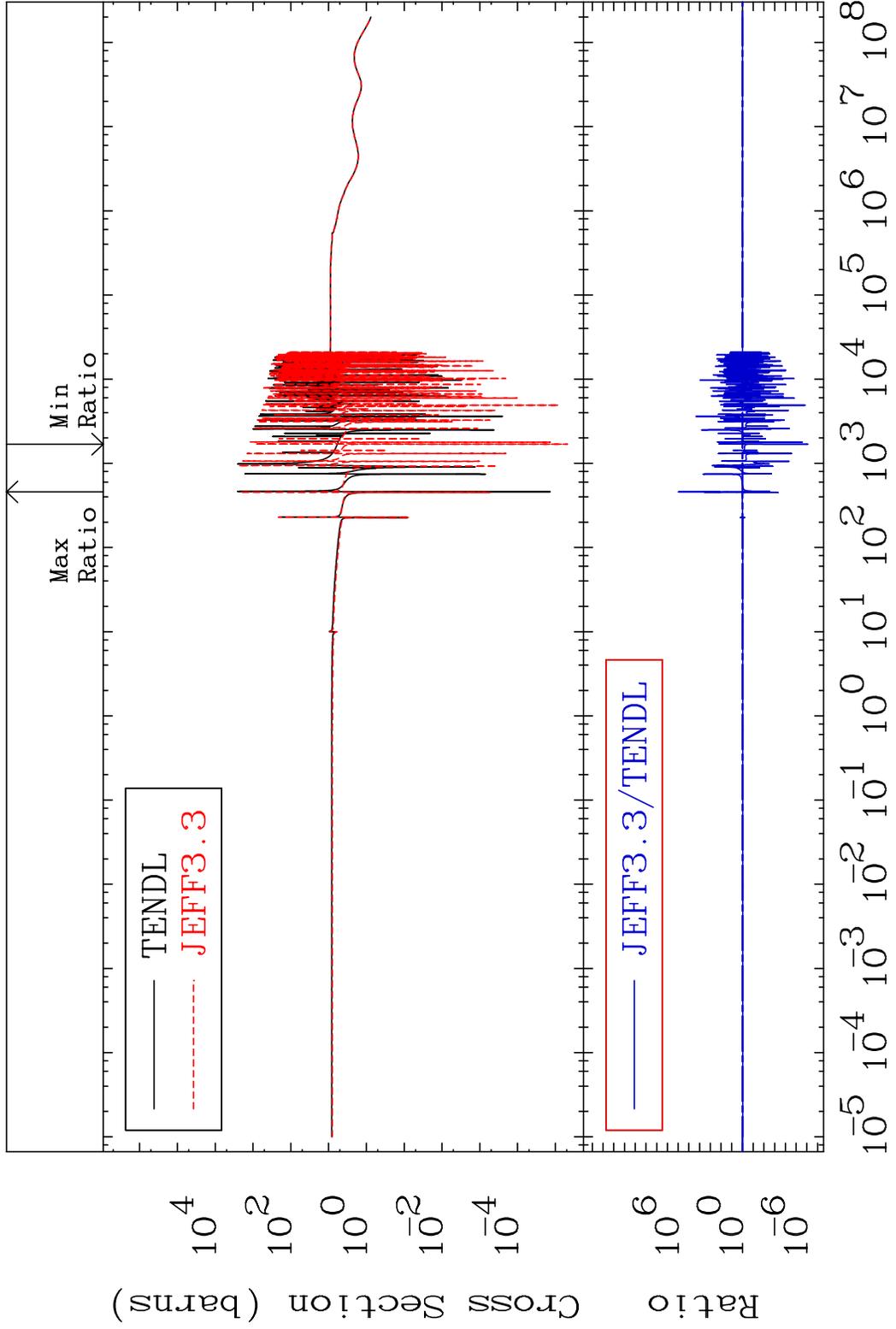
Press Mouse Button to Start

MAT 4437 Total 44-Ru-100
 Cross Section -99.96 To 9999. %



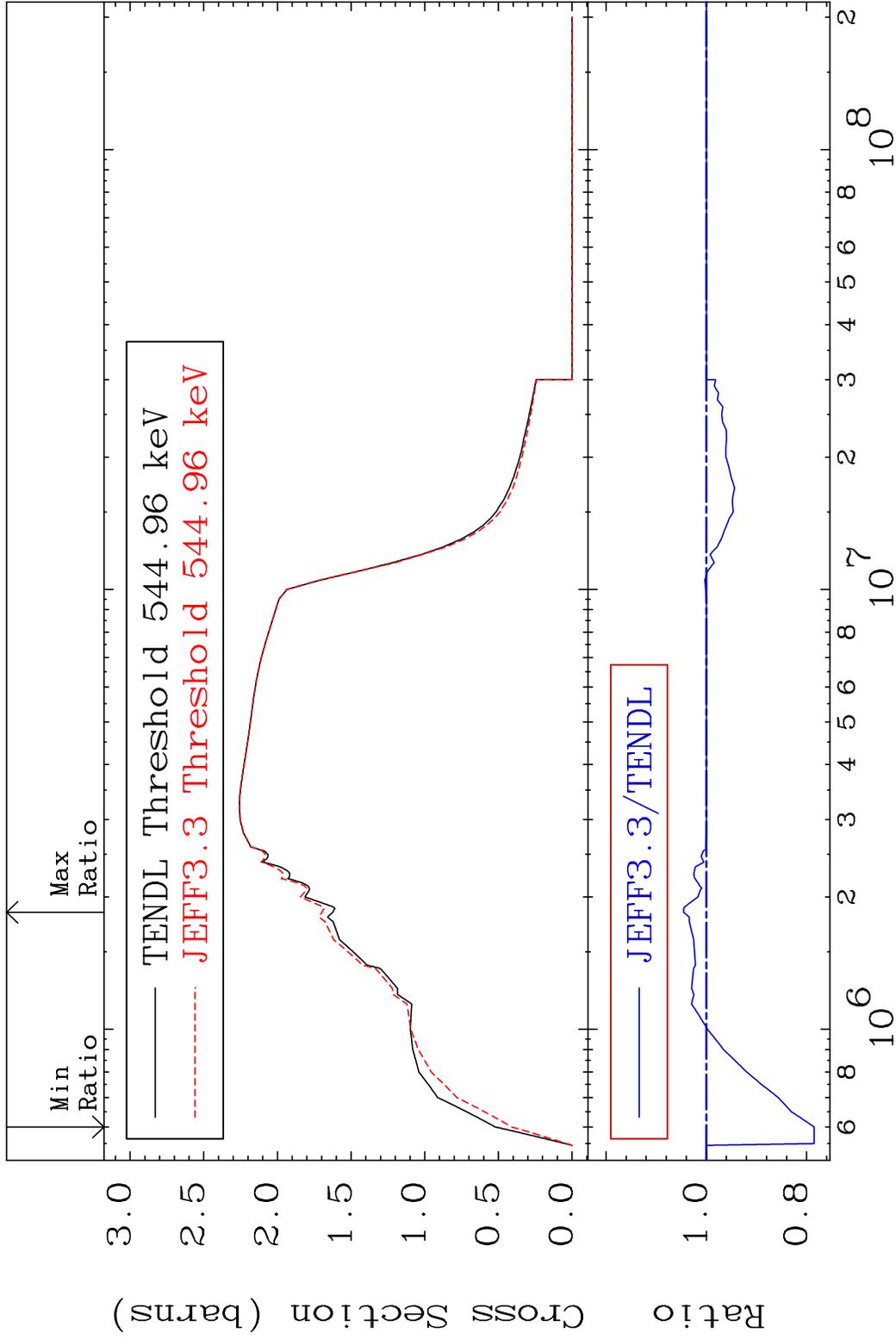
1 Incident Energy (eV) 44-Ru-100

MAT 4437 Elastic 44-Ru-100
 Cross Section -100.0 To 9999. %

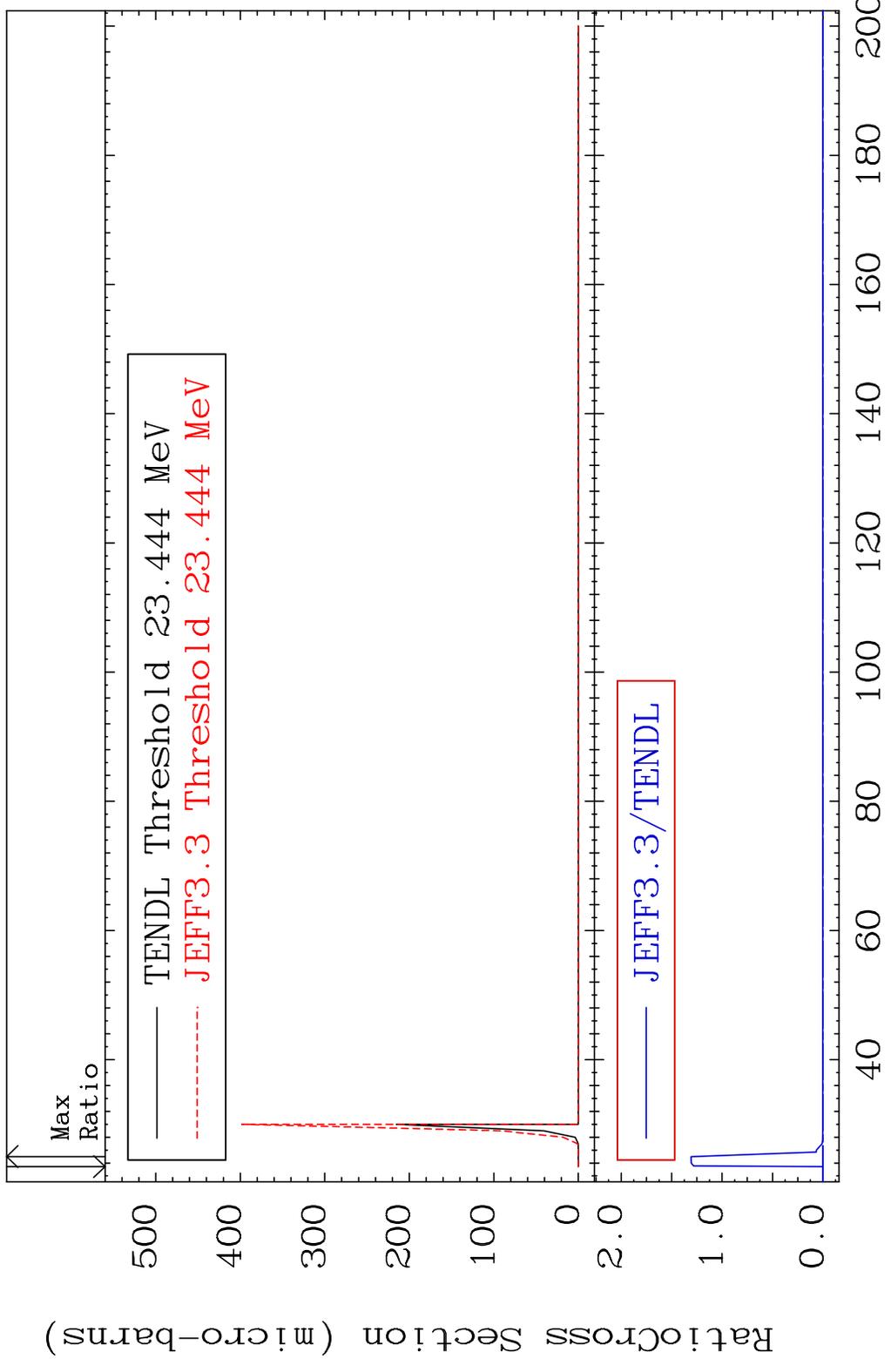


2 Incident Energy (eV) 44-Ru-100

MAT 4437 Inelastic 44-Ru-100
 Cross Section -21.48 To 4.546 %

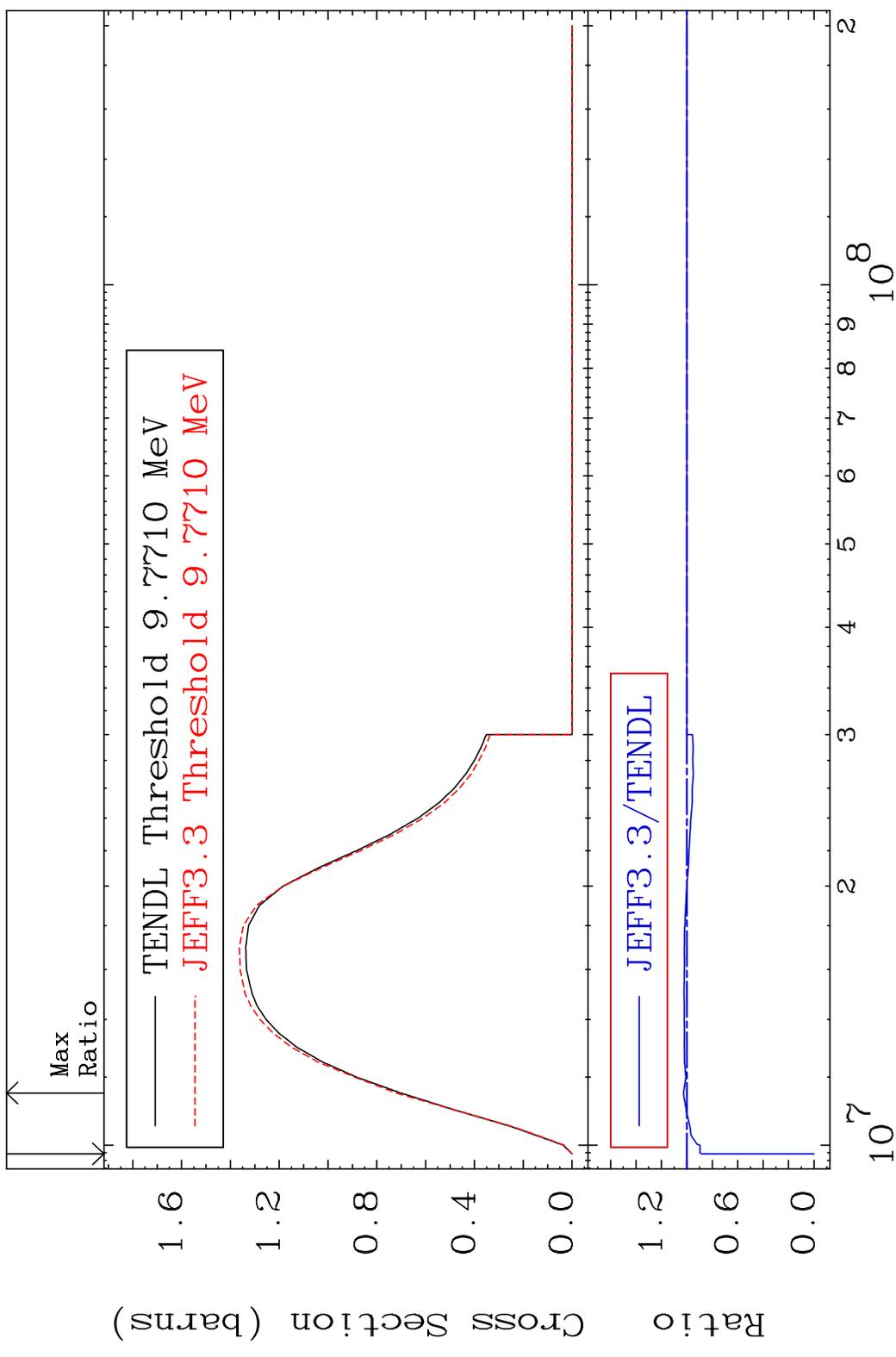


MAT 4437 (n,2n) d 44-Ru-100
 Cross Section -100.0 To 9999. %

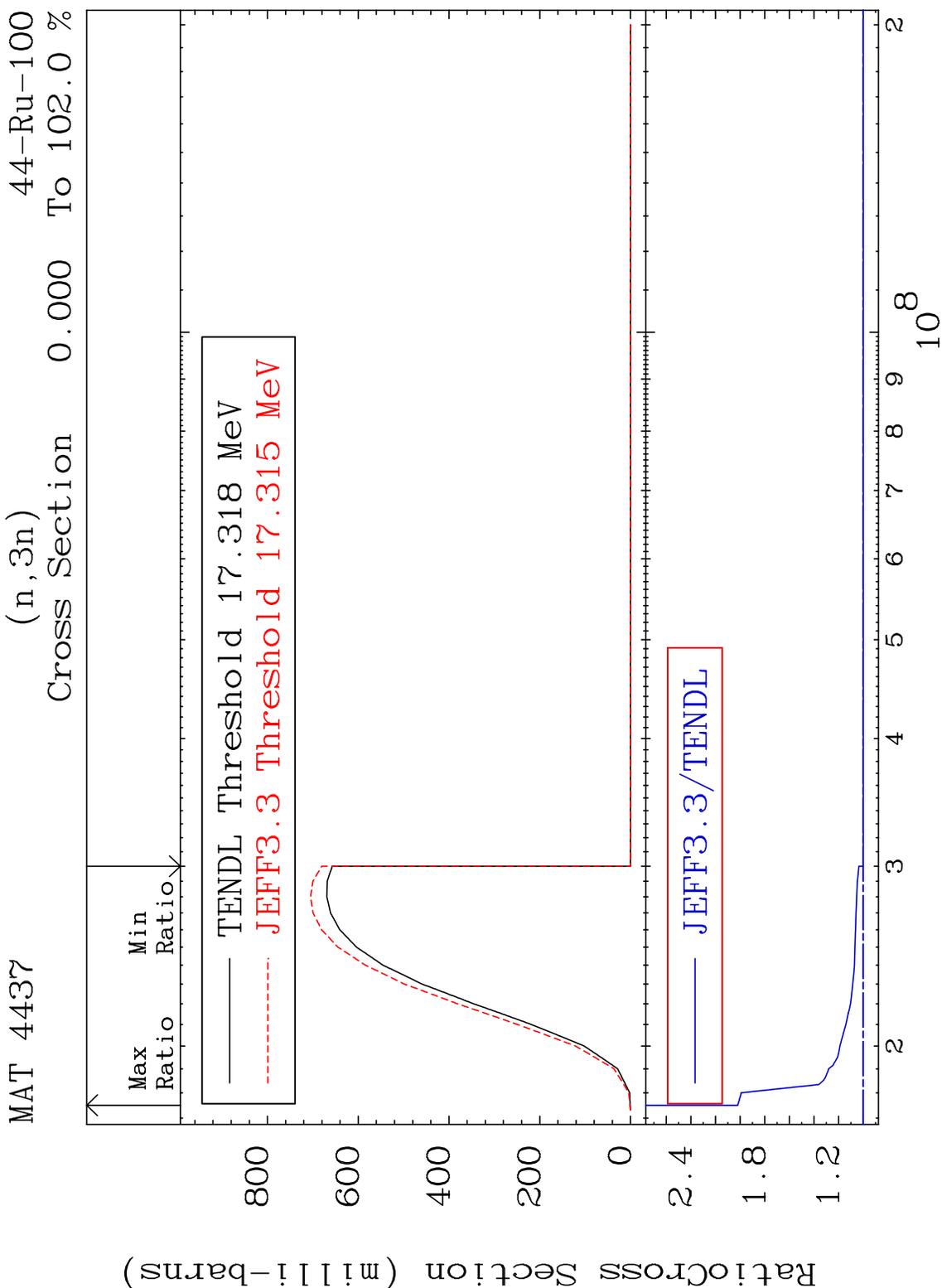


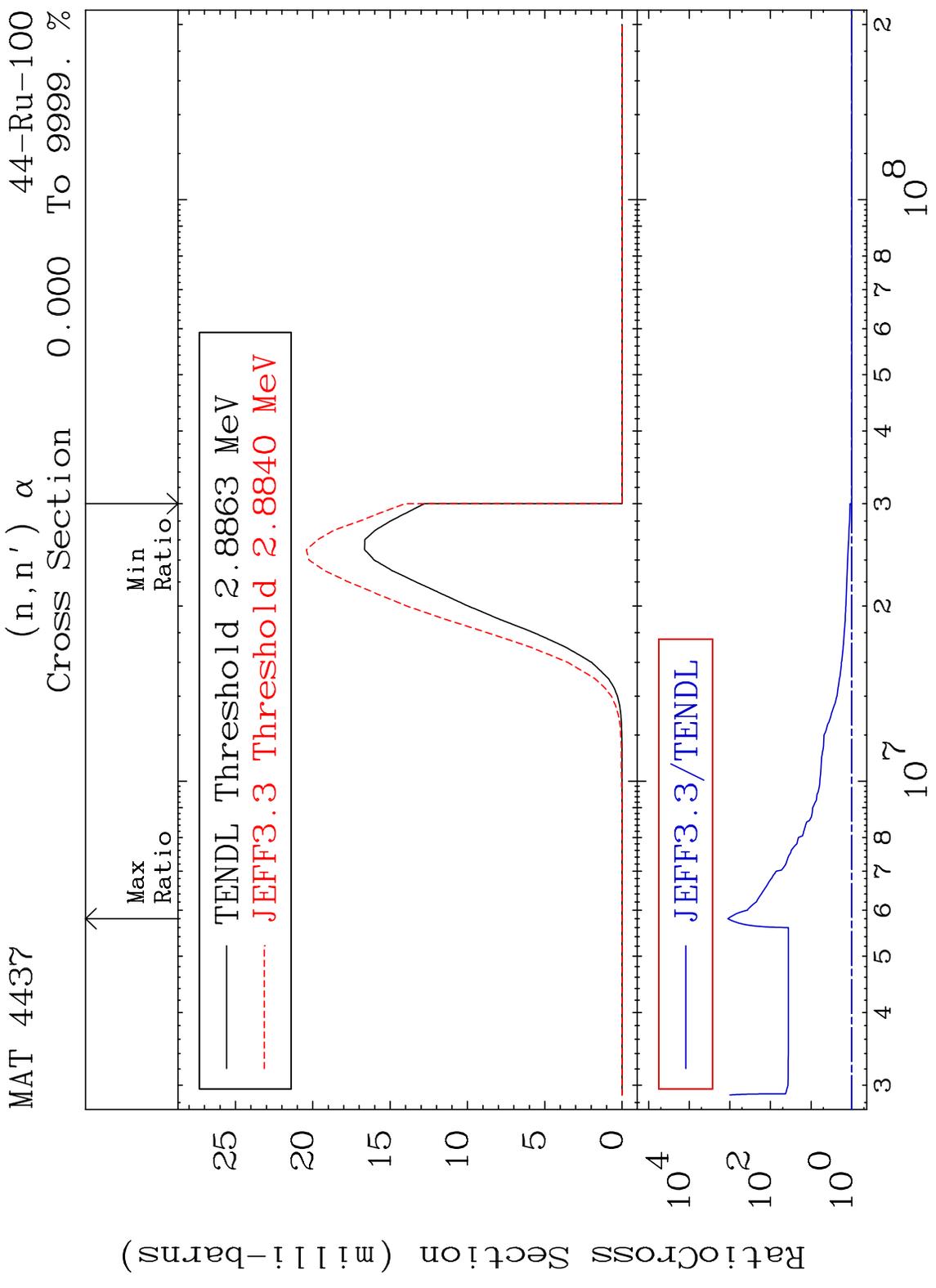
4 Incident Energy (MeV) 44-Ru-100

MAT 4437 (n,2n) 44-Ru-100
 Cross Section -100.0 To 2.609 %

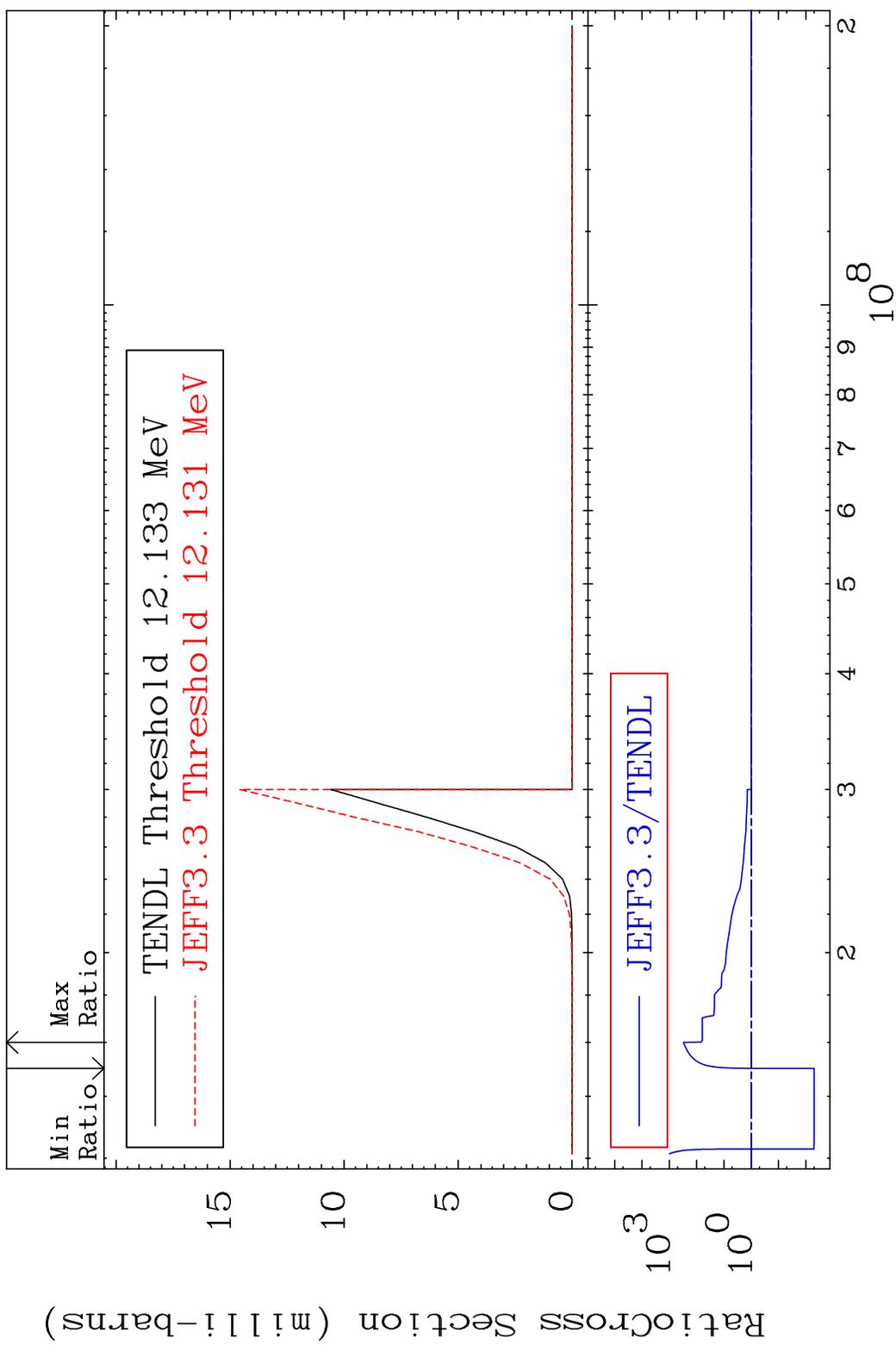


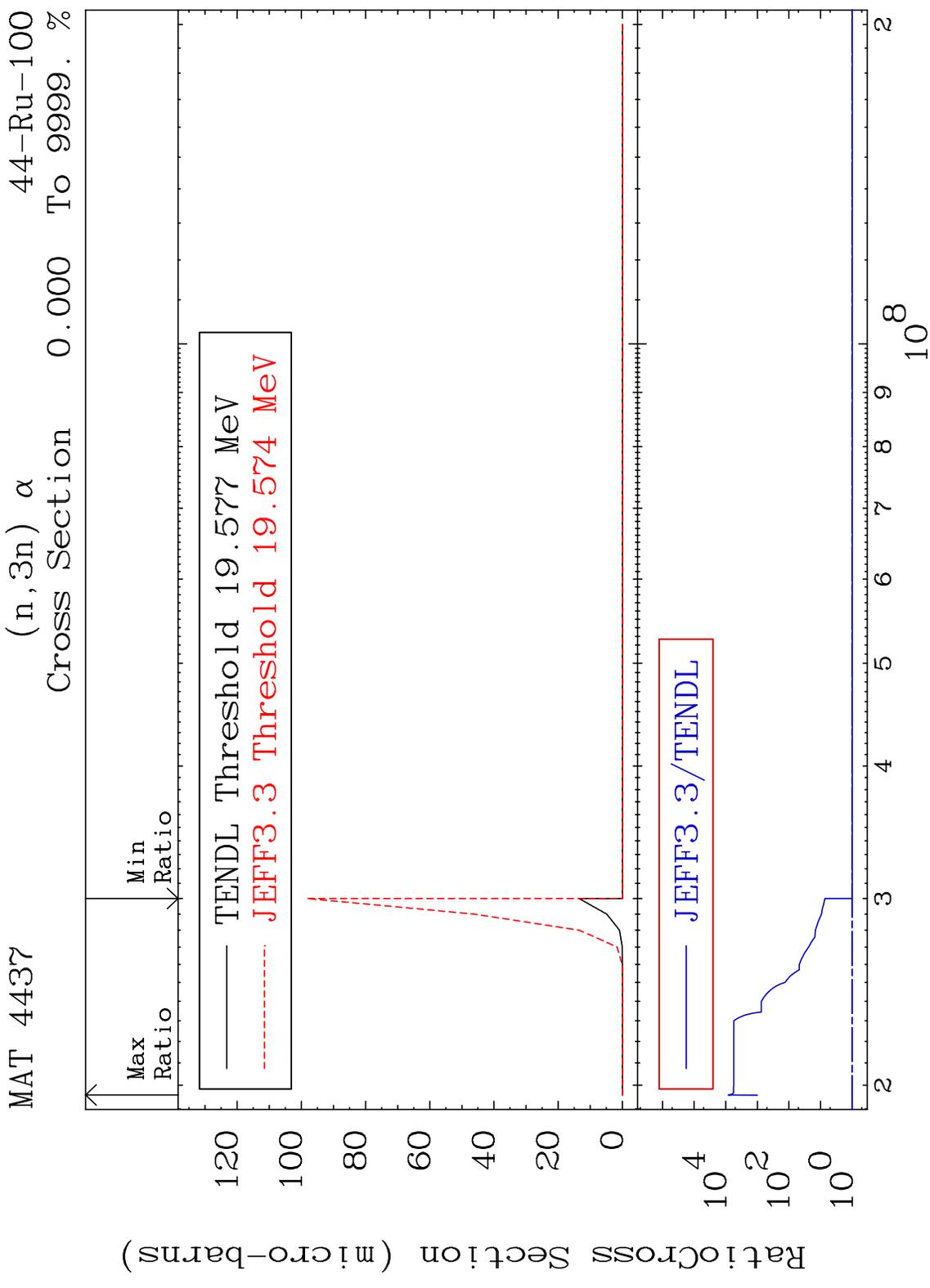
5 Incident Energy (eV) 44-Ru-100



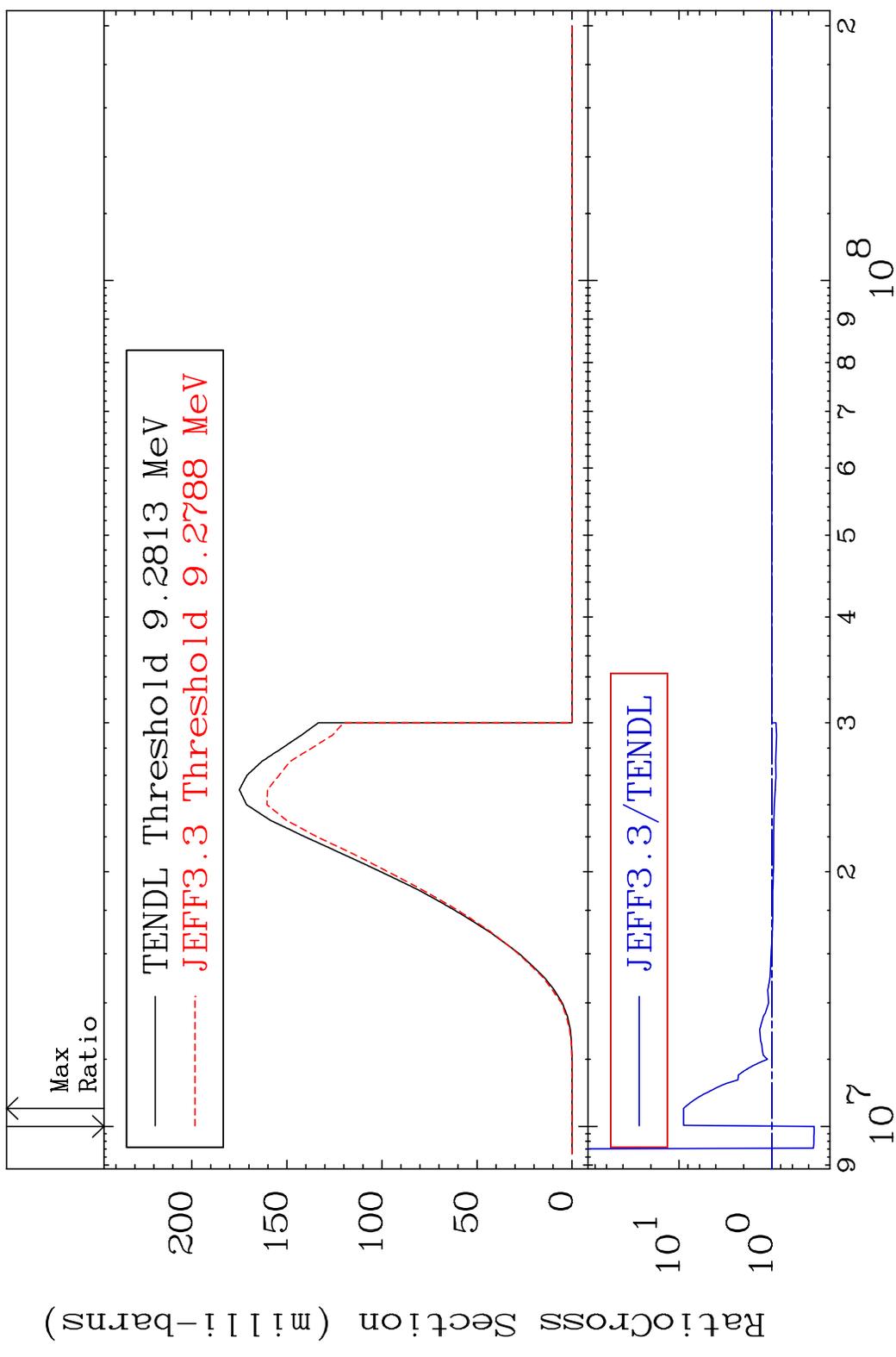


MAT 4437 (n,2n) α 44-Ru-100
 Cross Section -99.50 To 9999. %

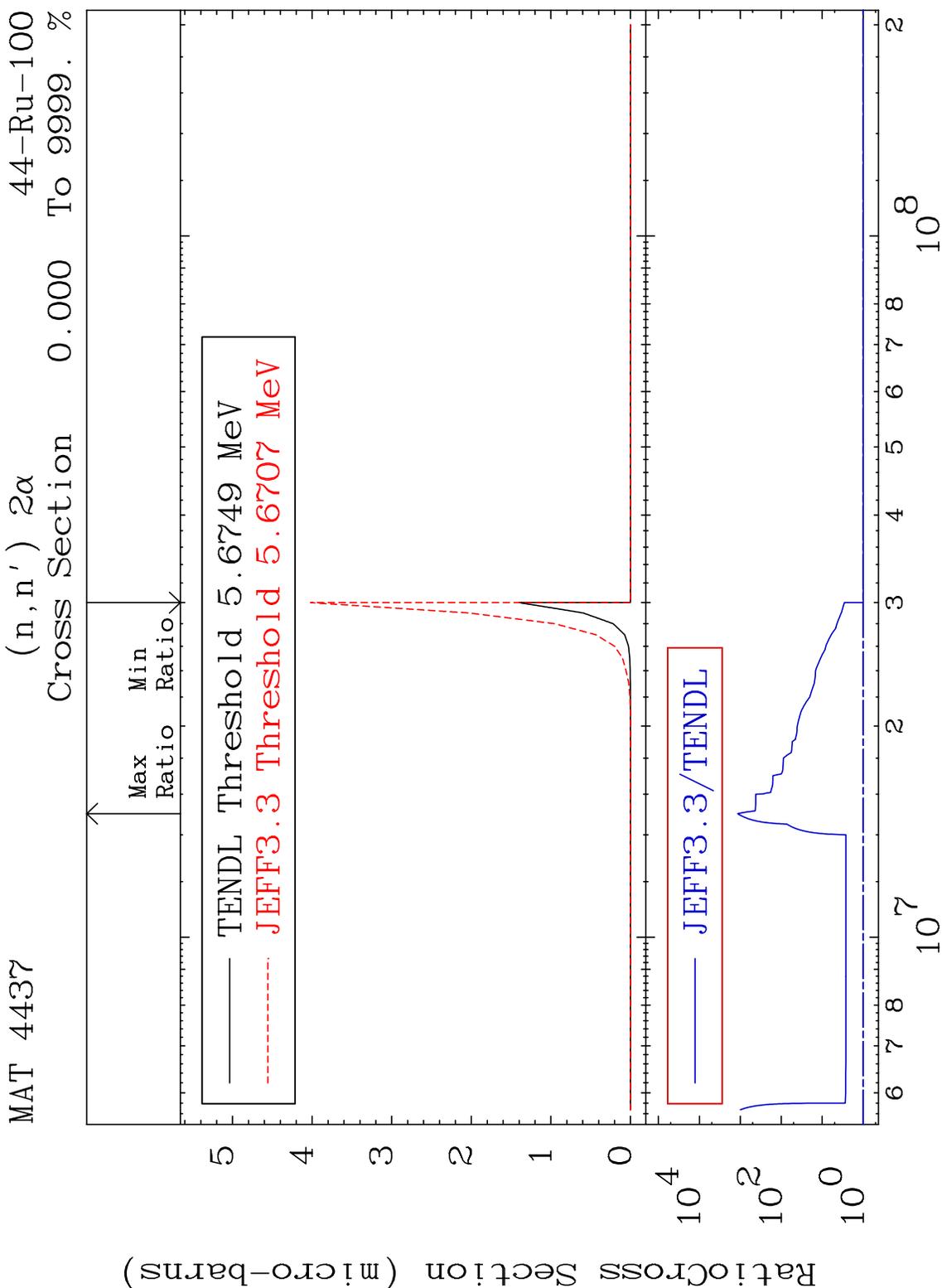




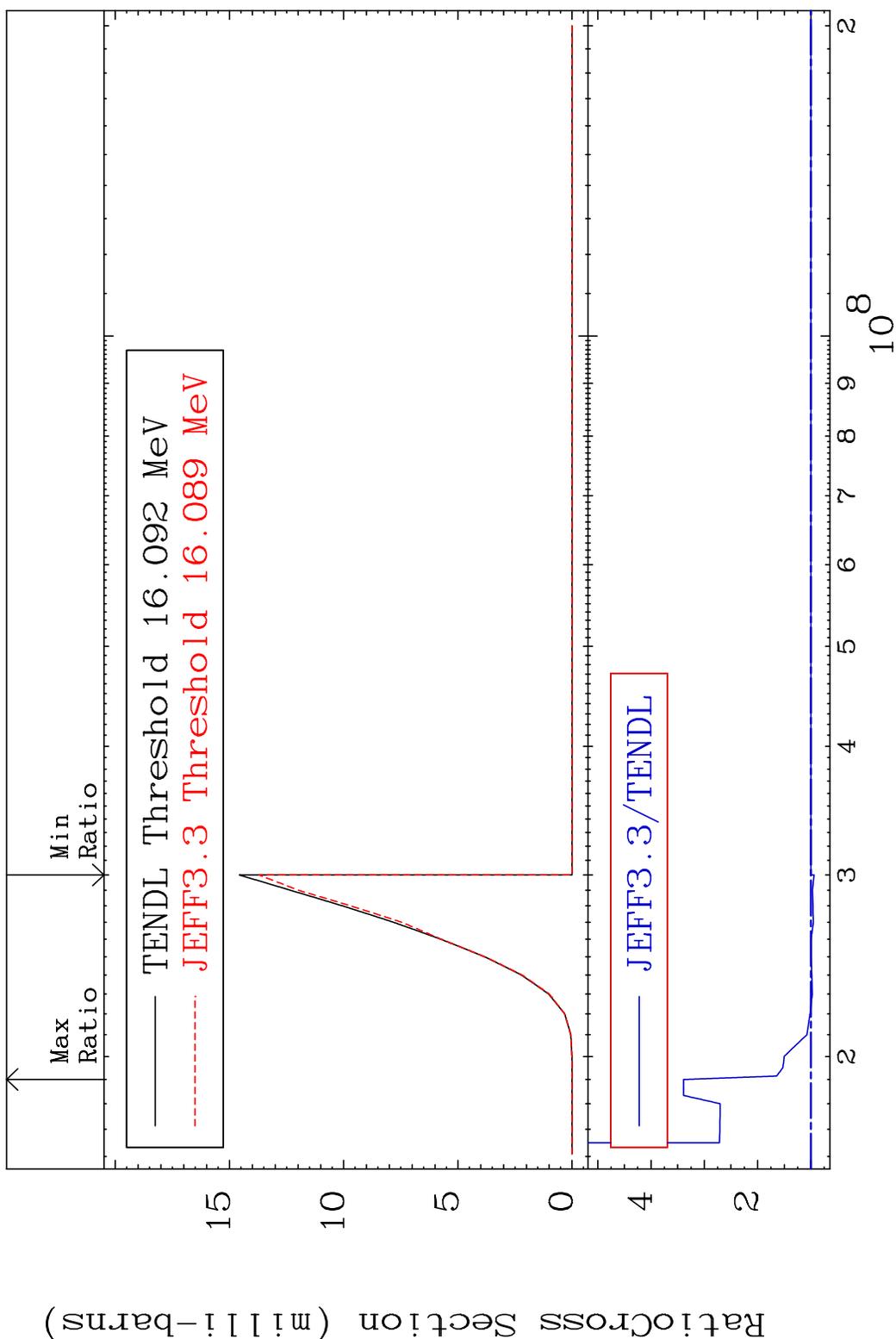
MAT 4437 (n, n') p 44-Ru-100
 Cross Section -64.96 To 791.1 %



10 Incident Energy (eV) 44-Ru-100

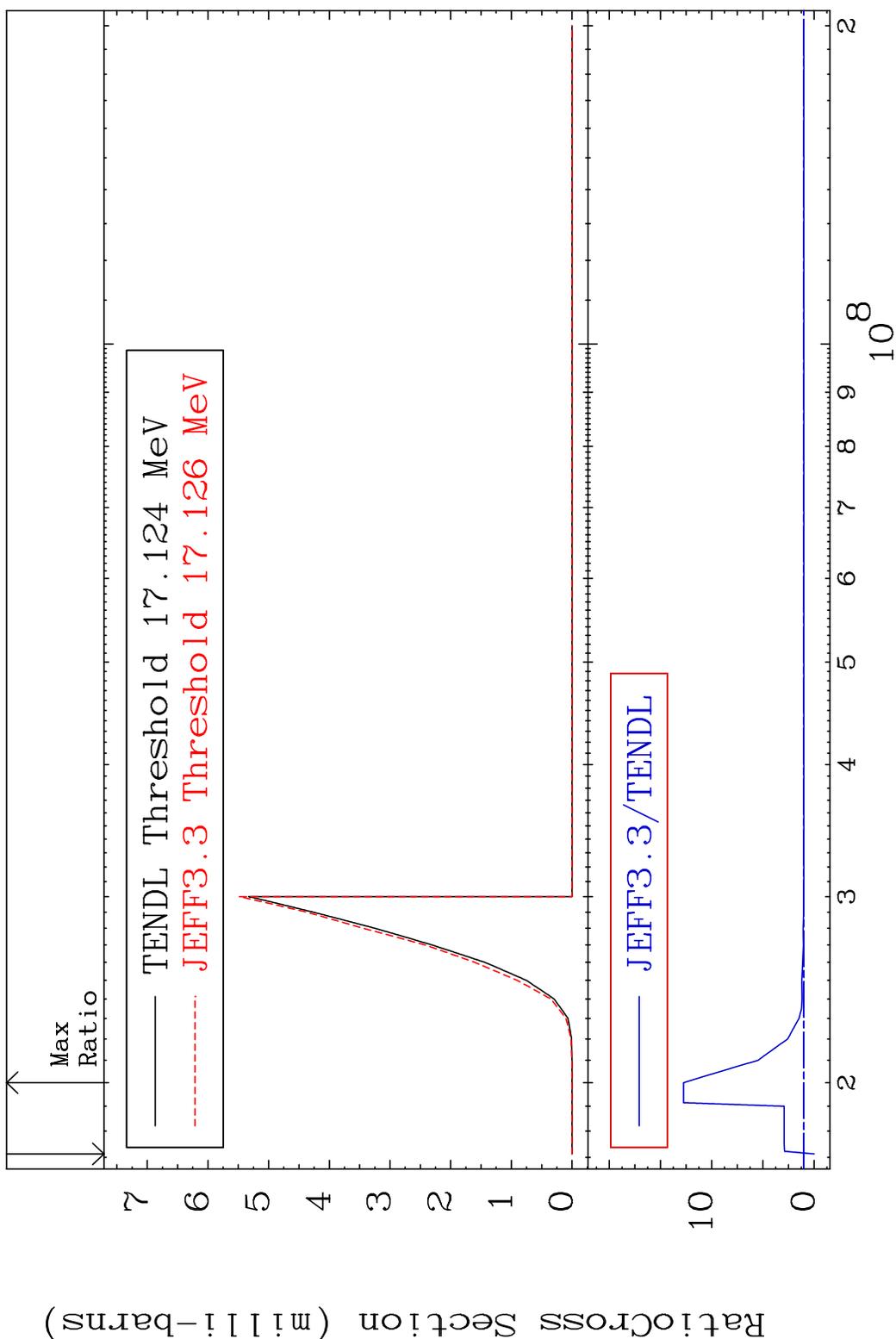


MAT 4437 (n, n') d 44-Ru-100
 Cross Section -5.889 To 239.0 %



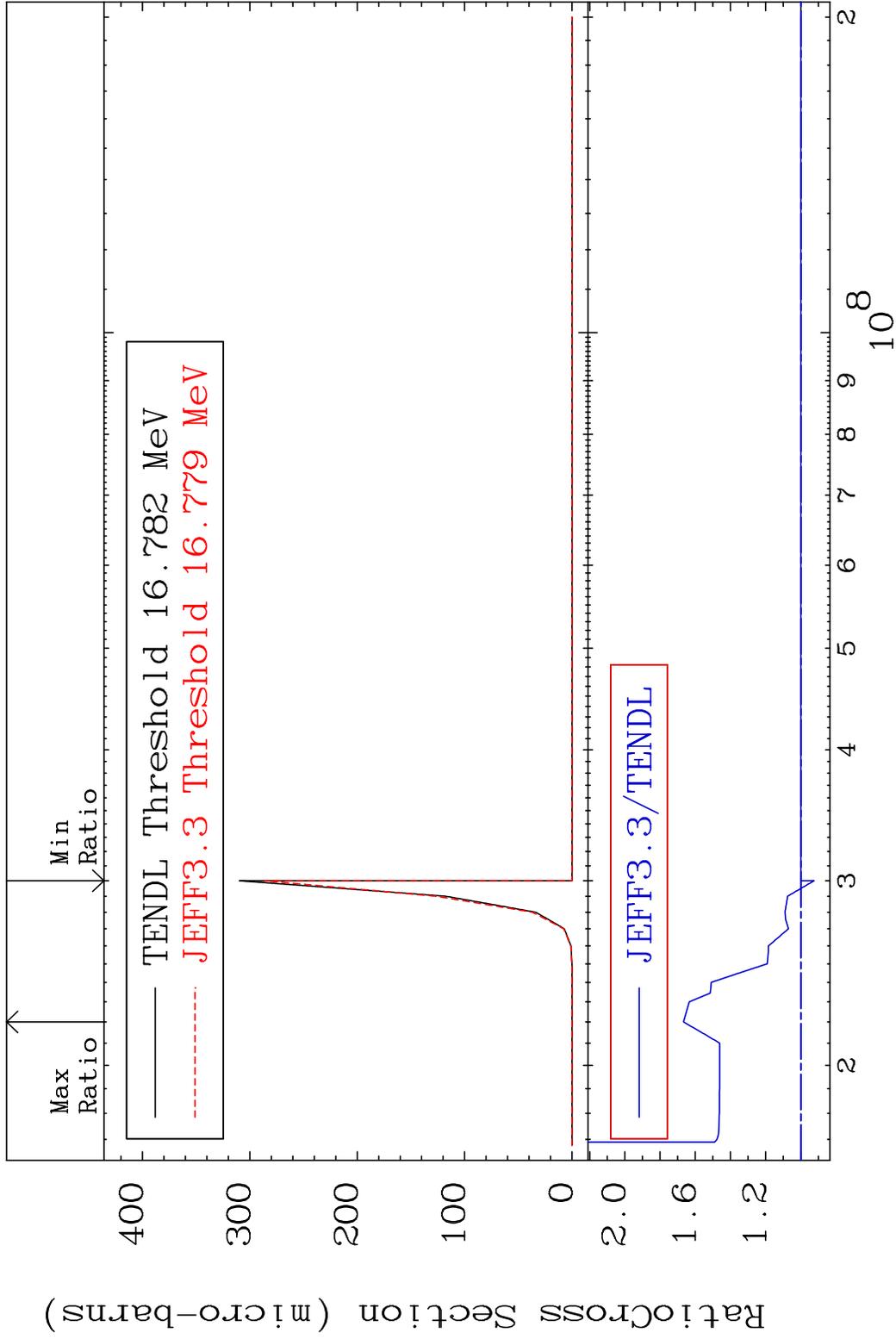
12 Incident Energy (eV) 44-Ru-100

MAT 4437 (n, n') t 44-Ru-100
 Cross Section -100.0 To 1175. %



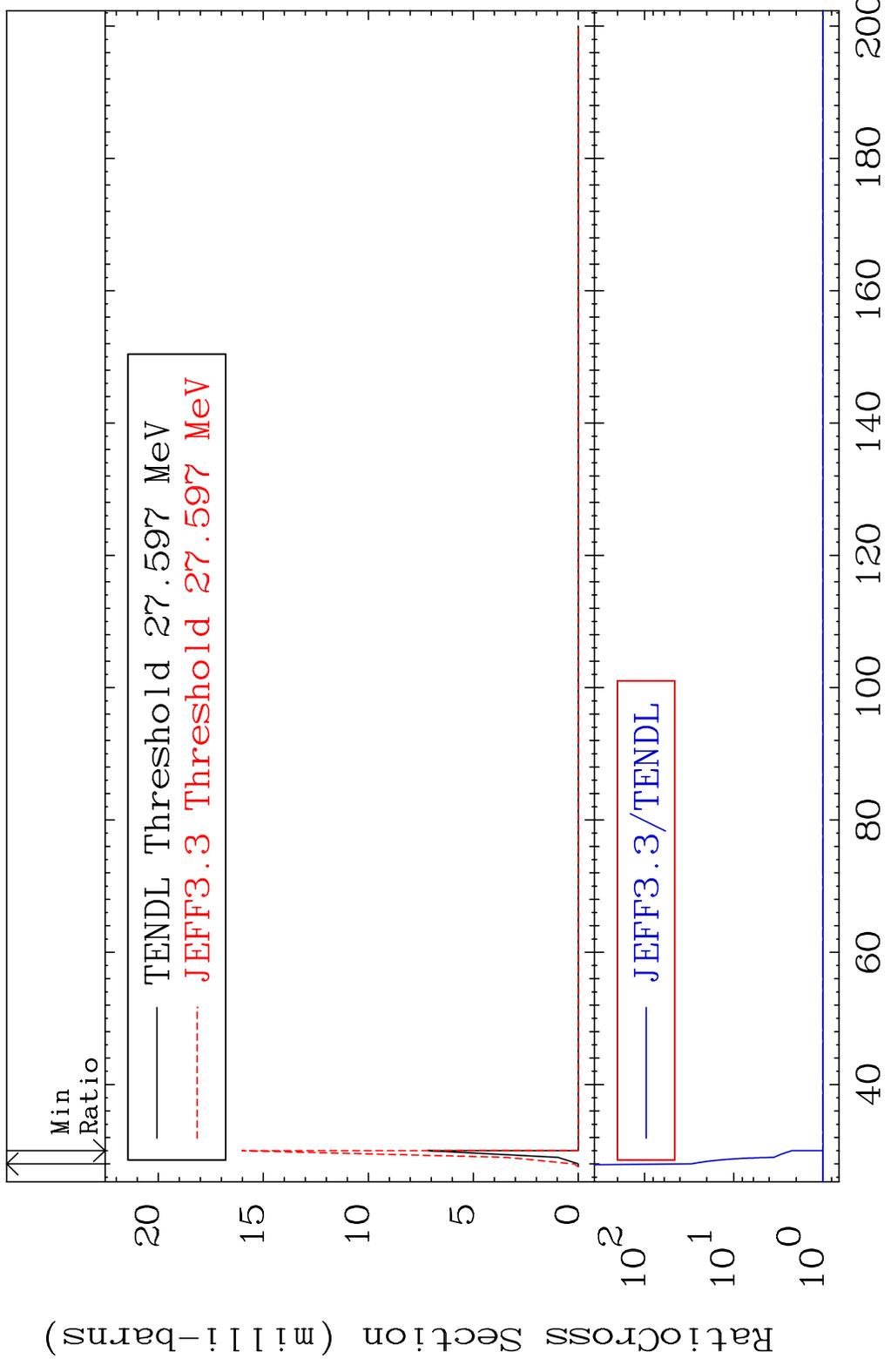
13 Incident Energy (eV) 44-Ru-100

MAT 4437 (n, n') He-3 44-Ru-100
 Cross Section -7.476 To 66.69 %



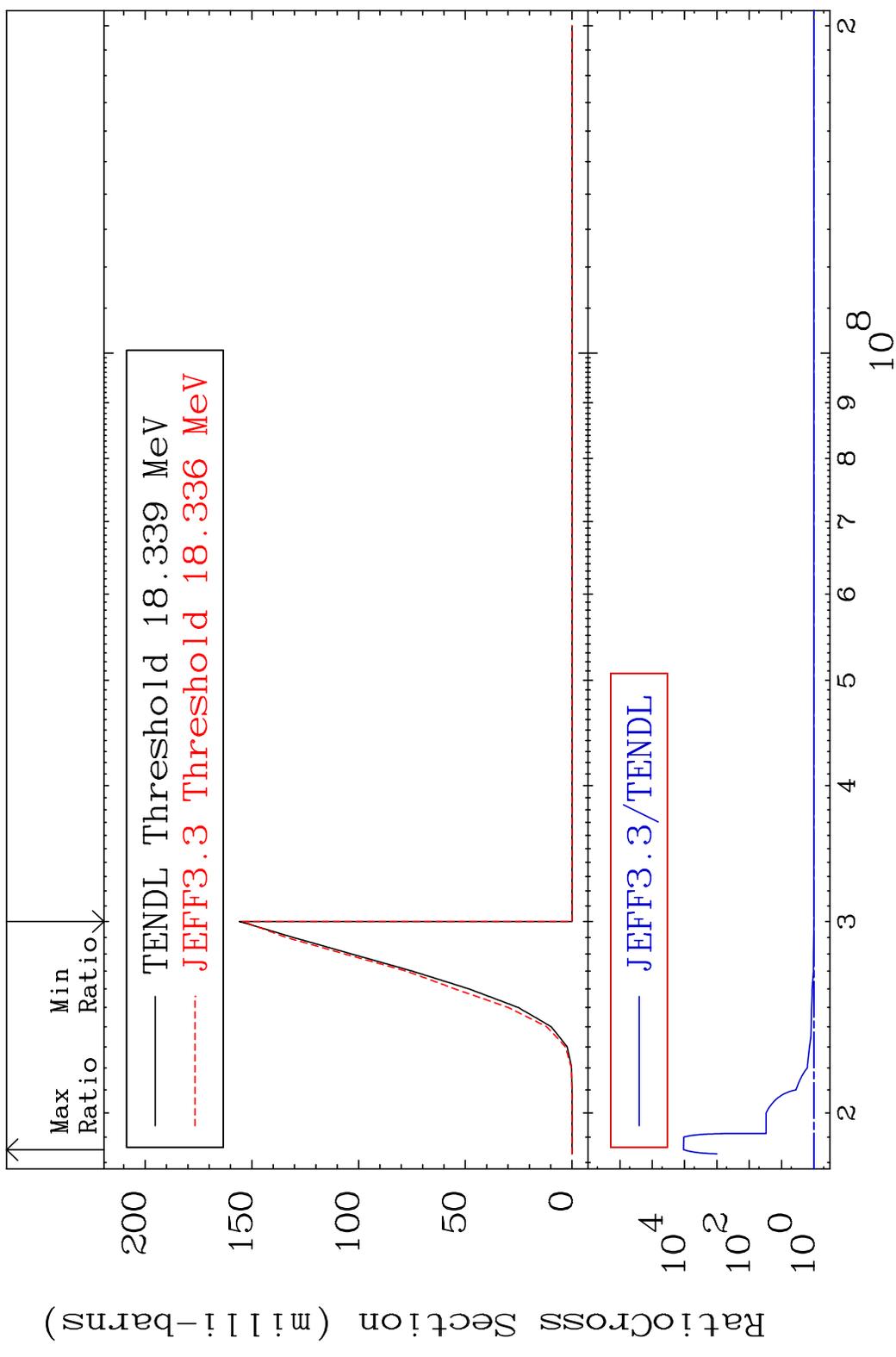
14 Incident Energy (eV) 44-Ru-100

MAT 4437 (n,4n) 44-Ru-100
 Cross Section 0.000 To 2912. %



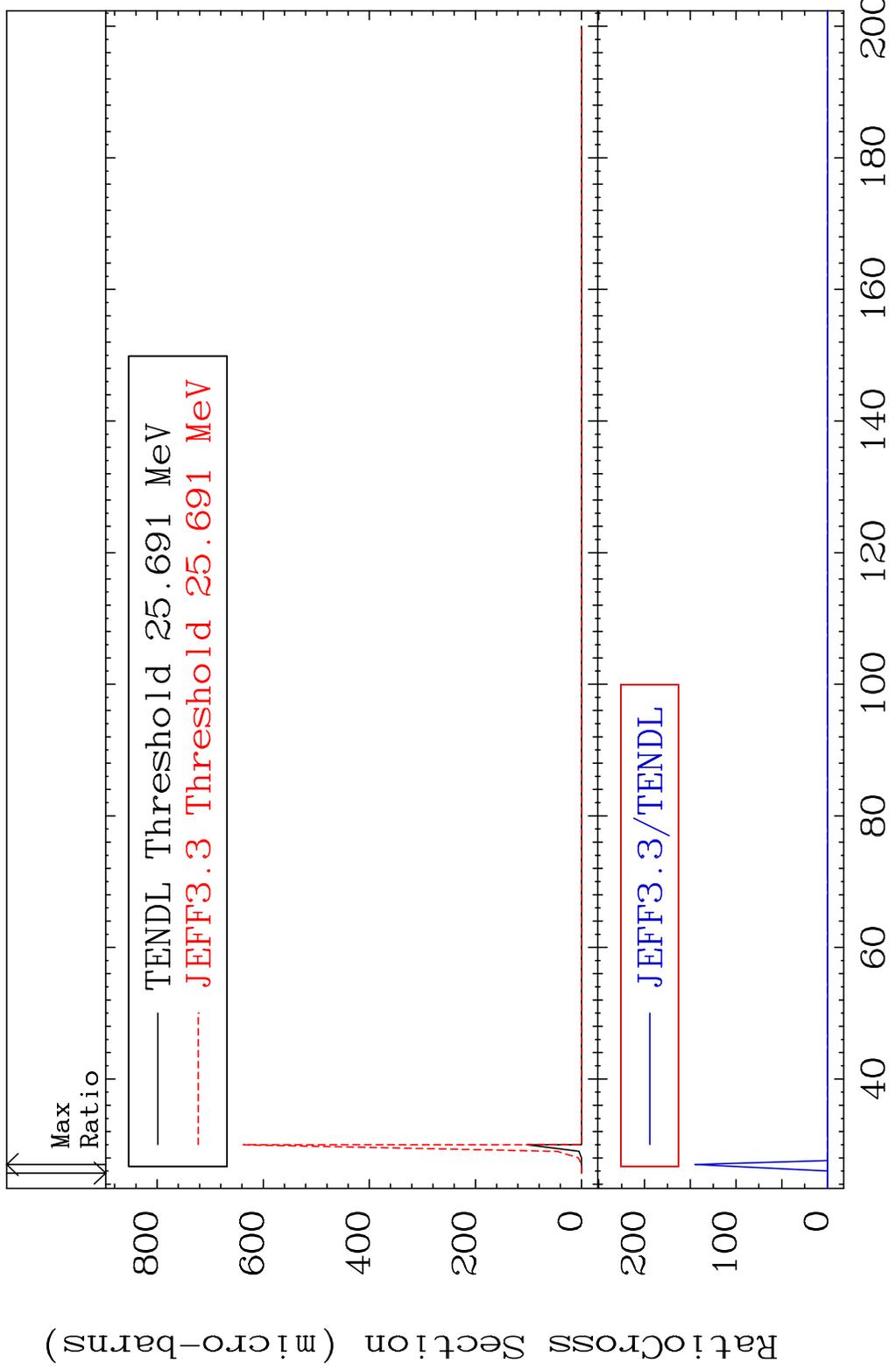
15 Incident Energy (MeV) 44-Ru-100

MAT 4437 (n,2n) p 44-Ru-100
 Cross Section -0.954 To 9999. %

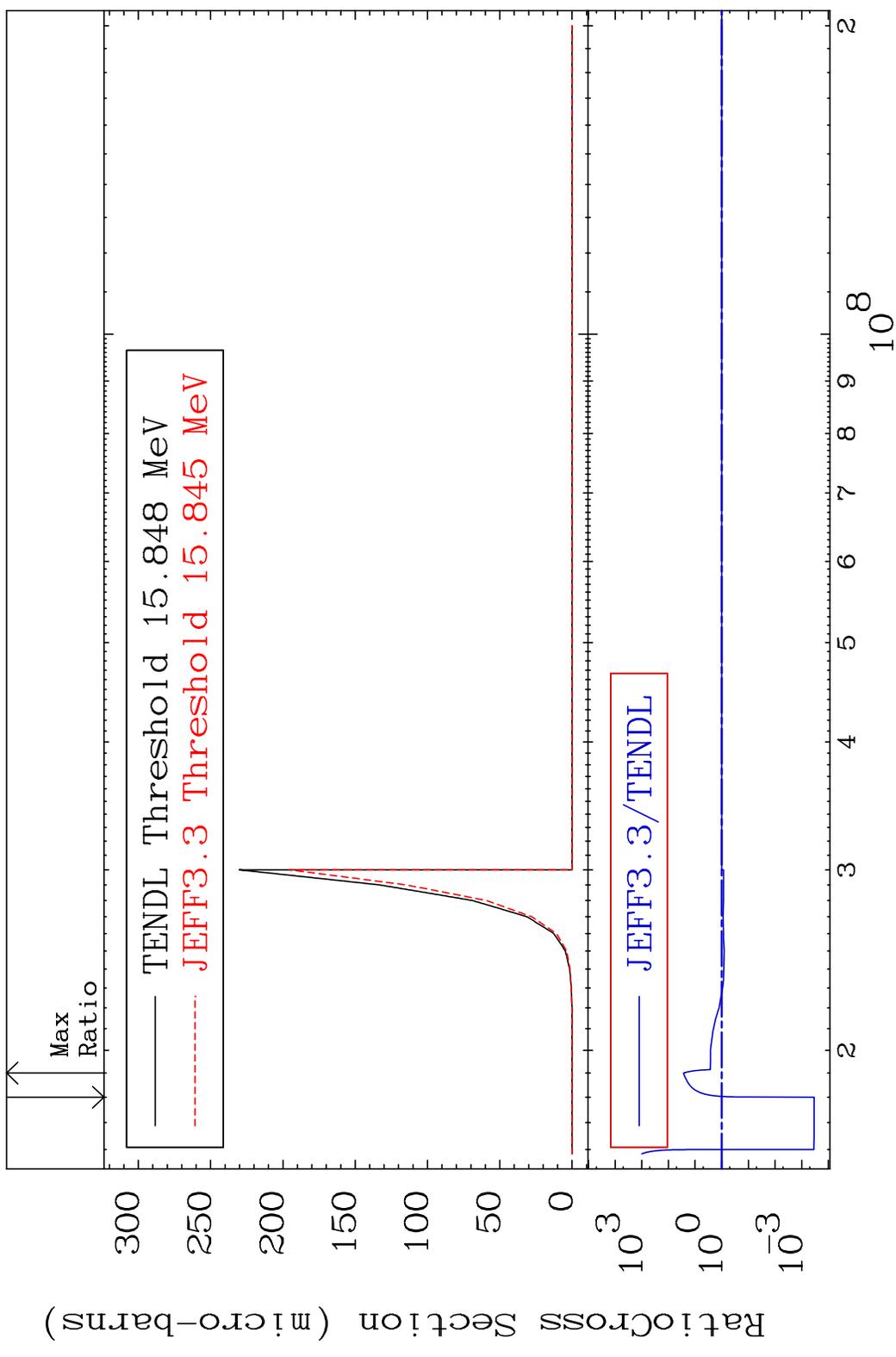


16 Incident Energy (eV) 44-Ru-100

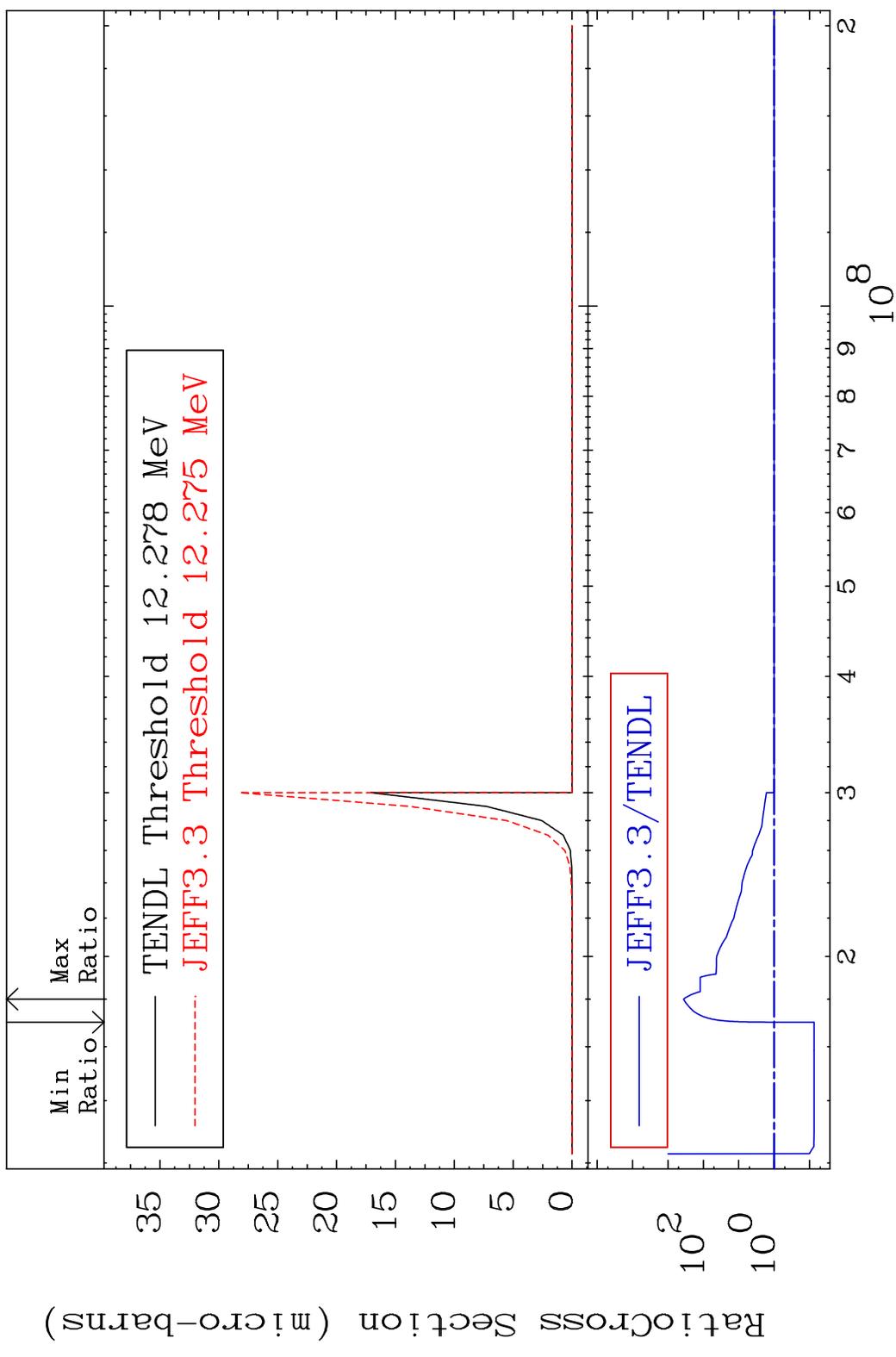
MAT 4437 (n,3n) p 44-Ru-100
Cross Section -100.0 To 9999. %



MAT 4437 (n,2n) p 44-Ru-100
 Cross Section -99.97 To 2619. %

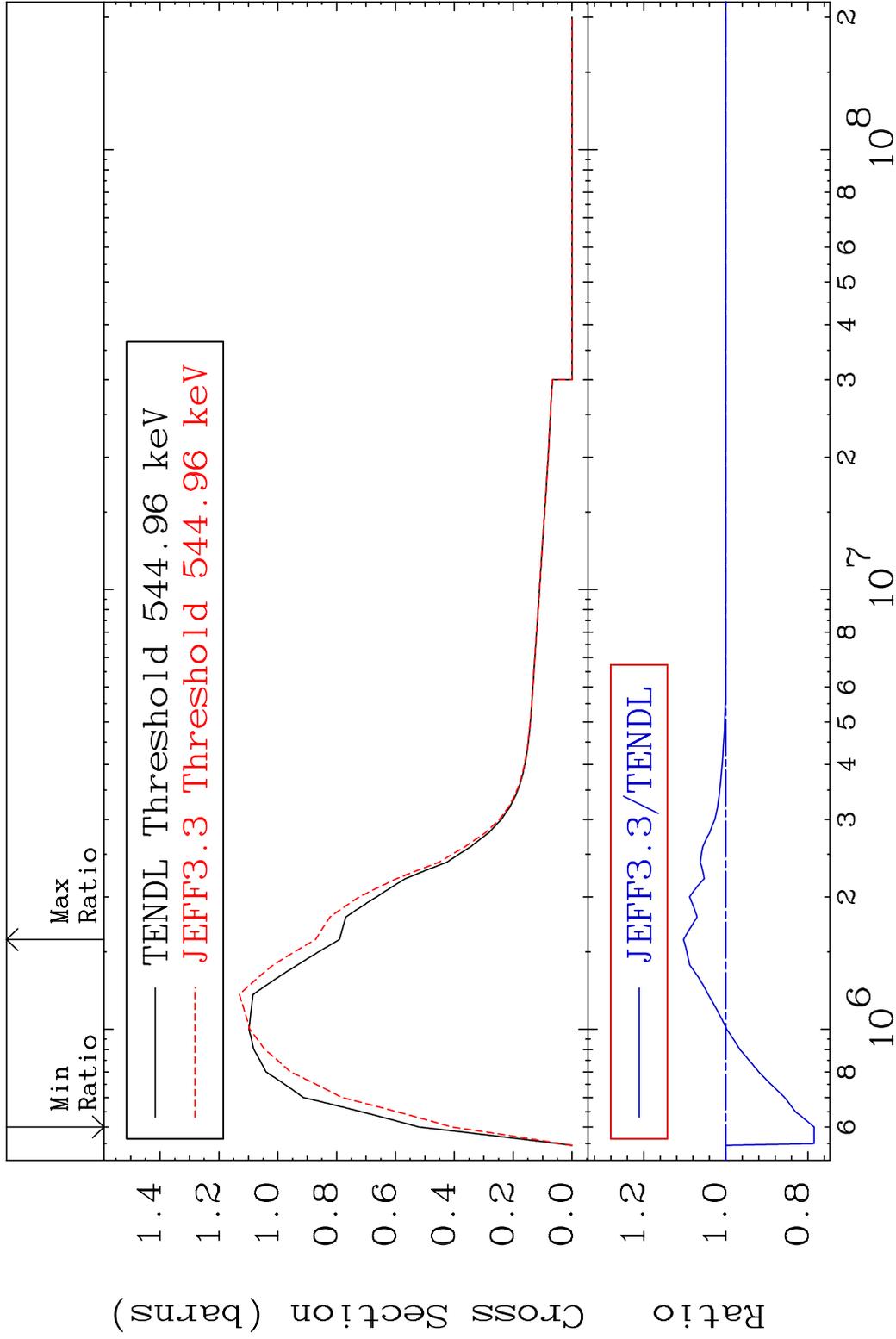


MAT 4437 (n, n') p α 44-Ru-100
 Cross Section -92.54 To 9999. %

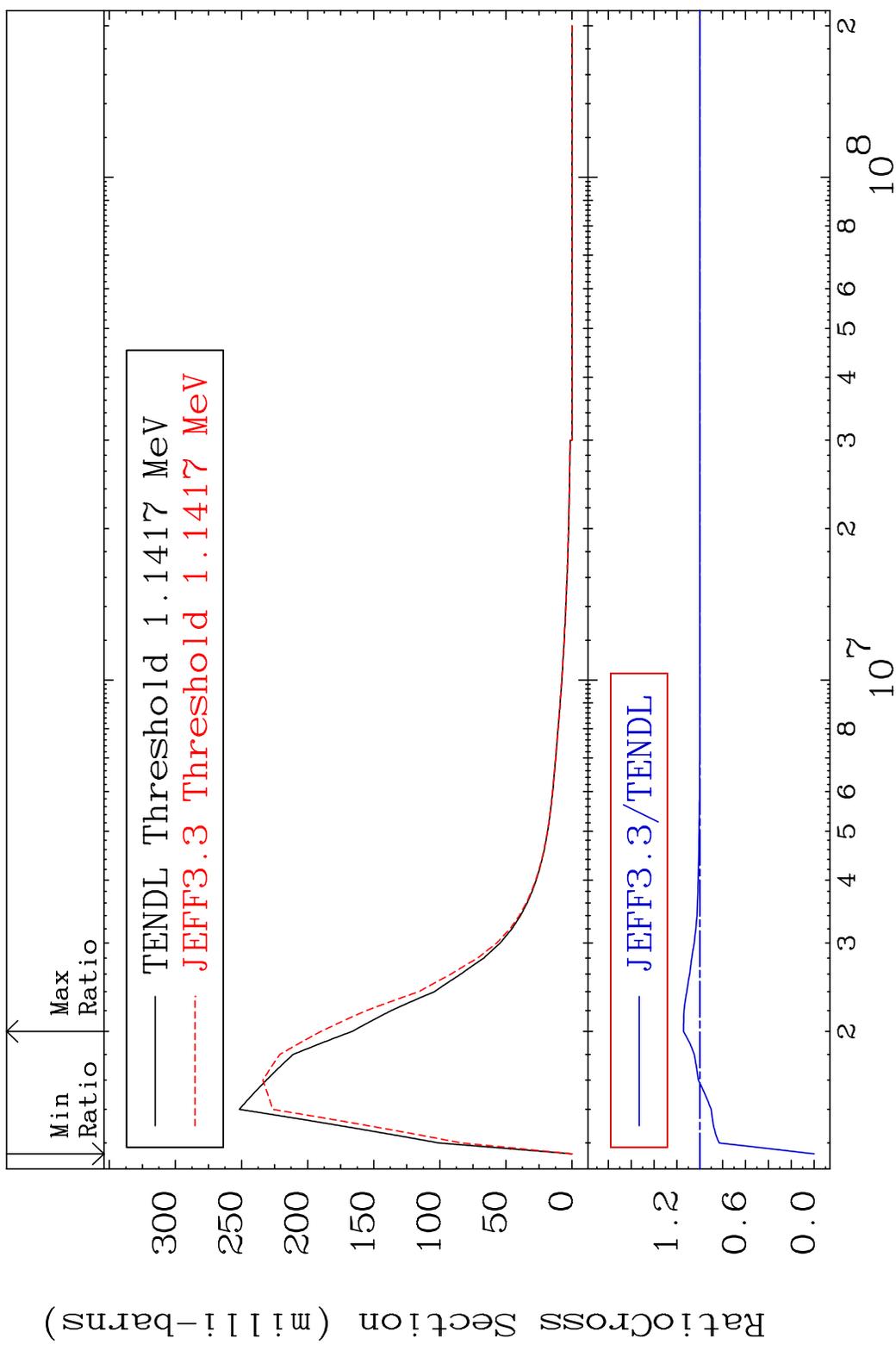


19 Incident Energy (eV) 44-Ru-100

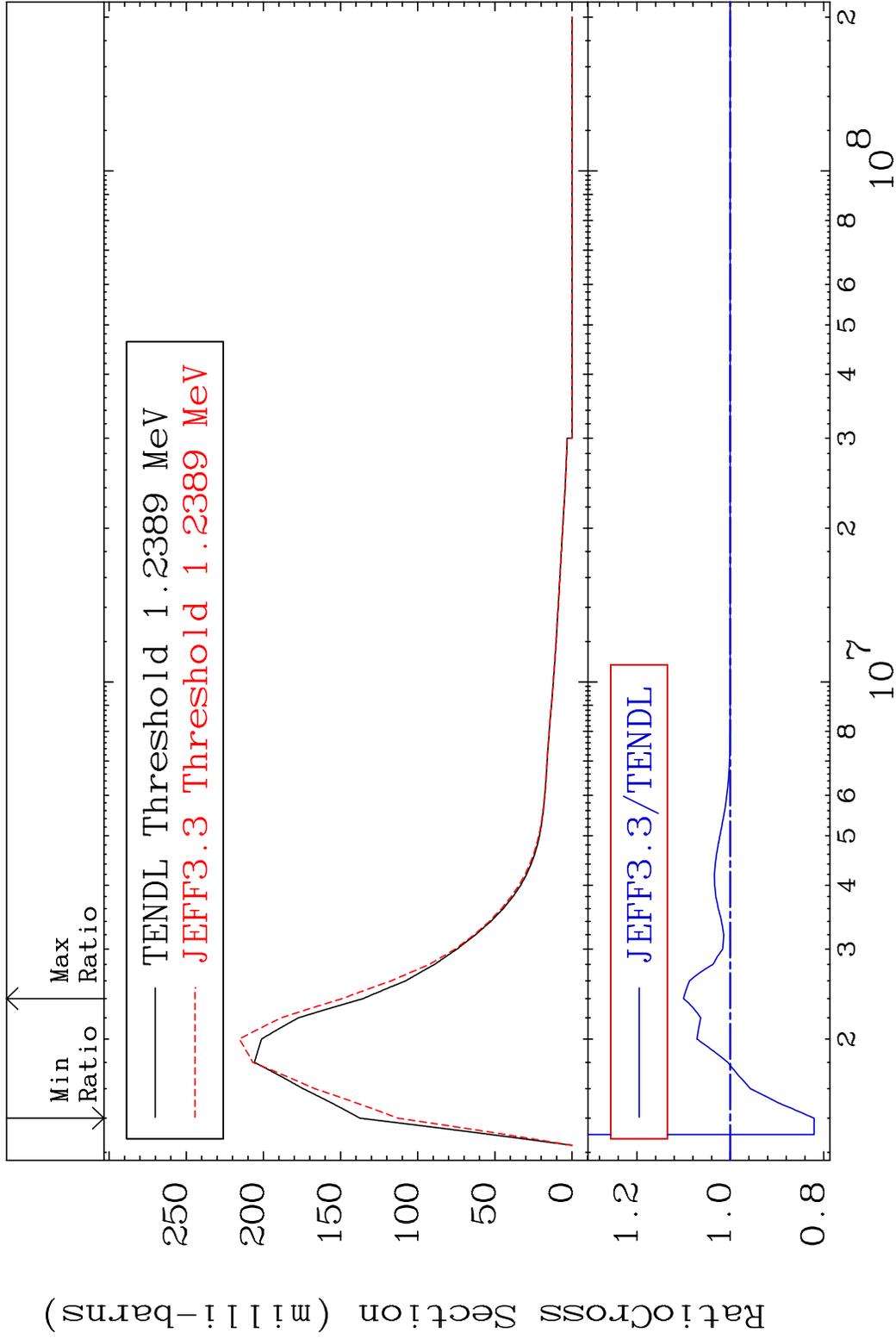
MAT 4437 MT= 51 (n, n') Level 44-Ru-100
 Cross Section -21.48 To 10.32 %



MAT 4437 MT= 52 (n, n') Level 44-Ru-100
 Cross Section -100.0 To 14.17 %

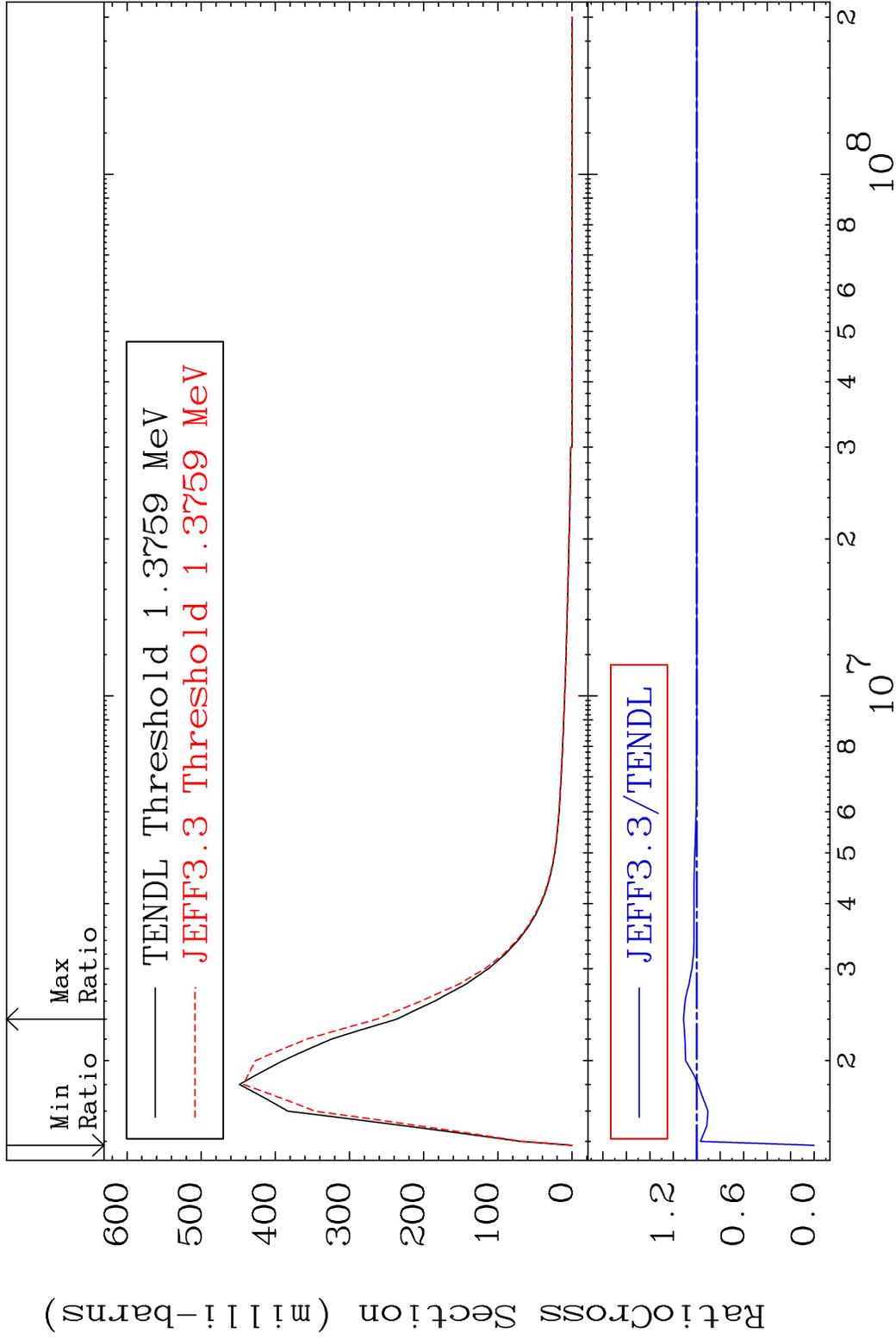


MAT 4437 MT= 53 (n, n') Level 44-Ru-100
 Cross Section -17.94 To 10.01 %

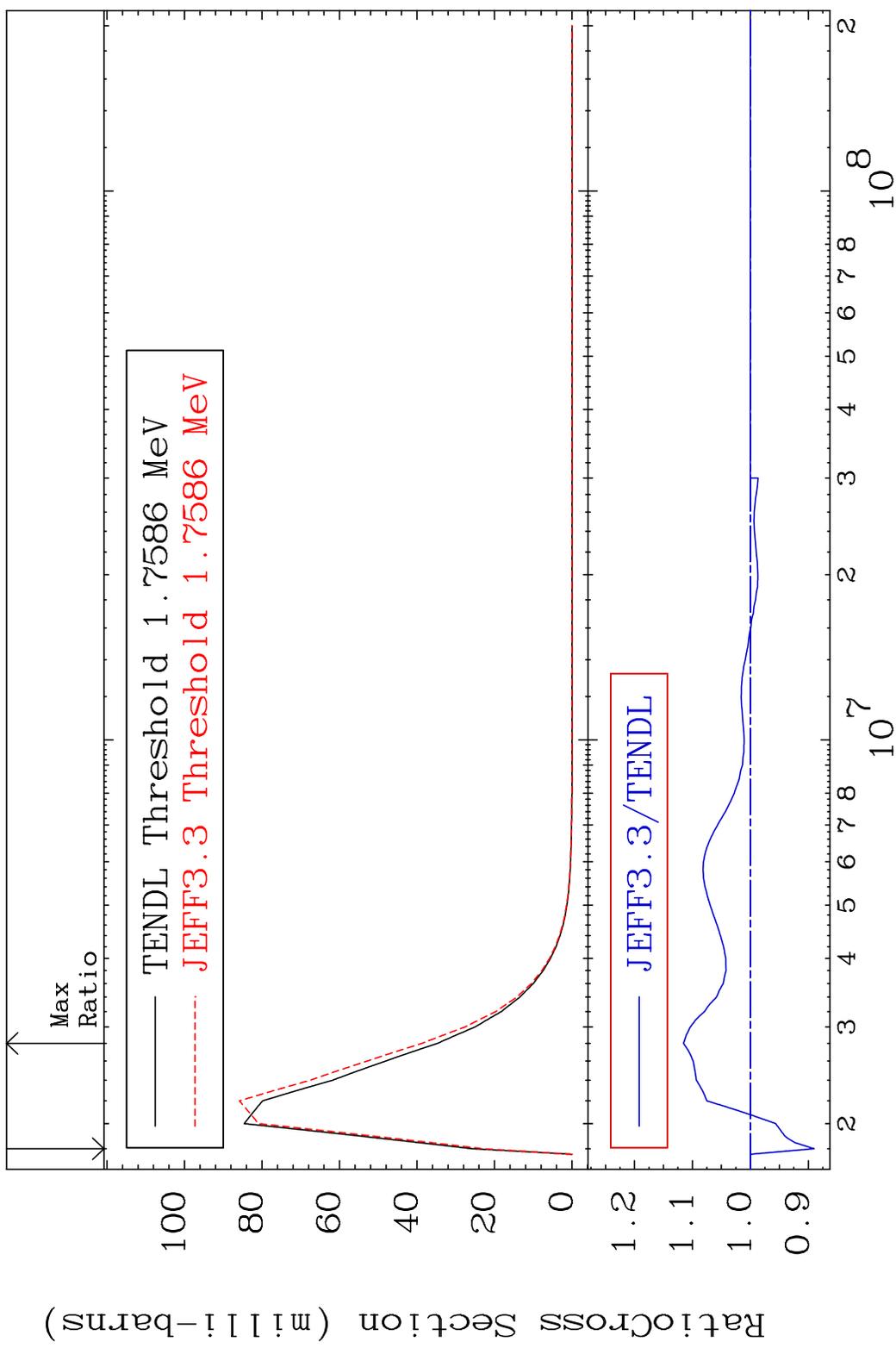


22 Incident Energy (eV) 44-Ru-100

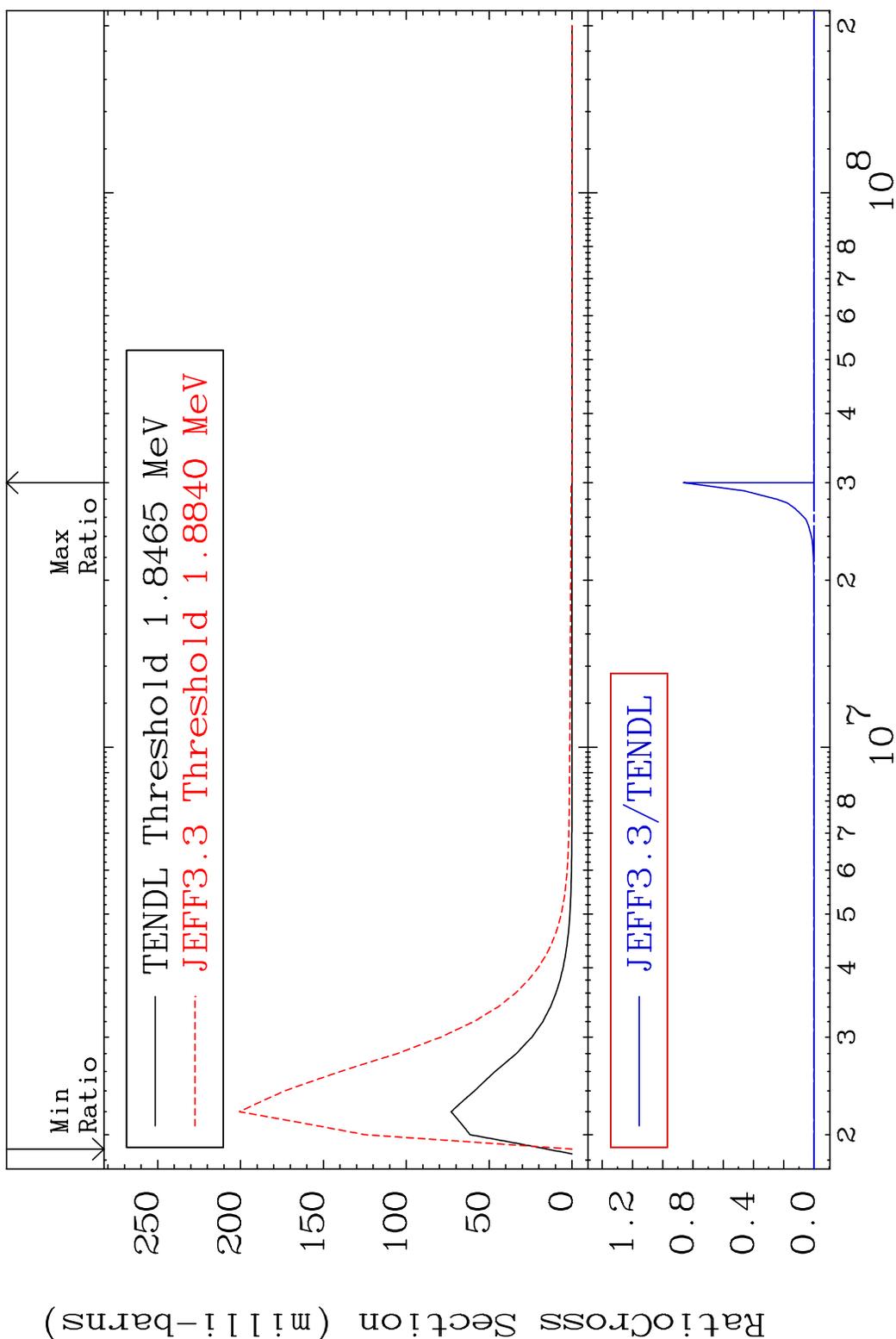
MAT 4437 MT= 54 (n, n') Level 44-Ru-100
 Cross Section -100.0 To 11.30 %



MAT 4437 MT= 55 (n, n') Level 44-Ru-100
 Cross Section -10.99 To 11.53 %

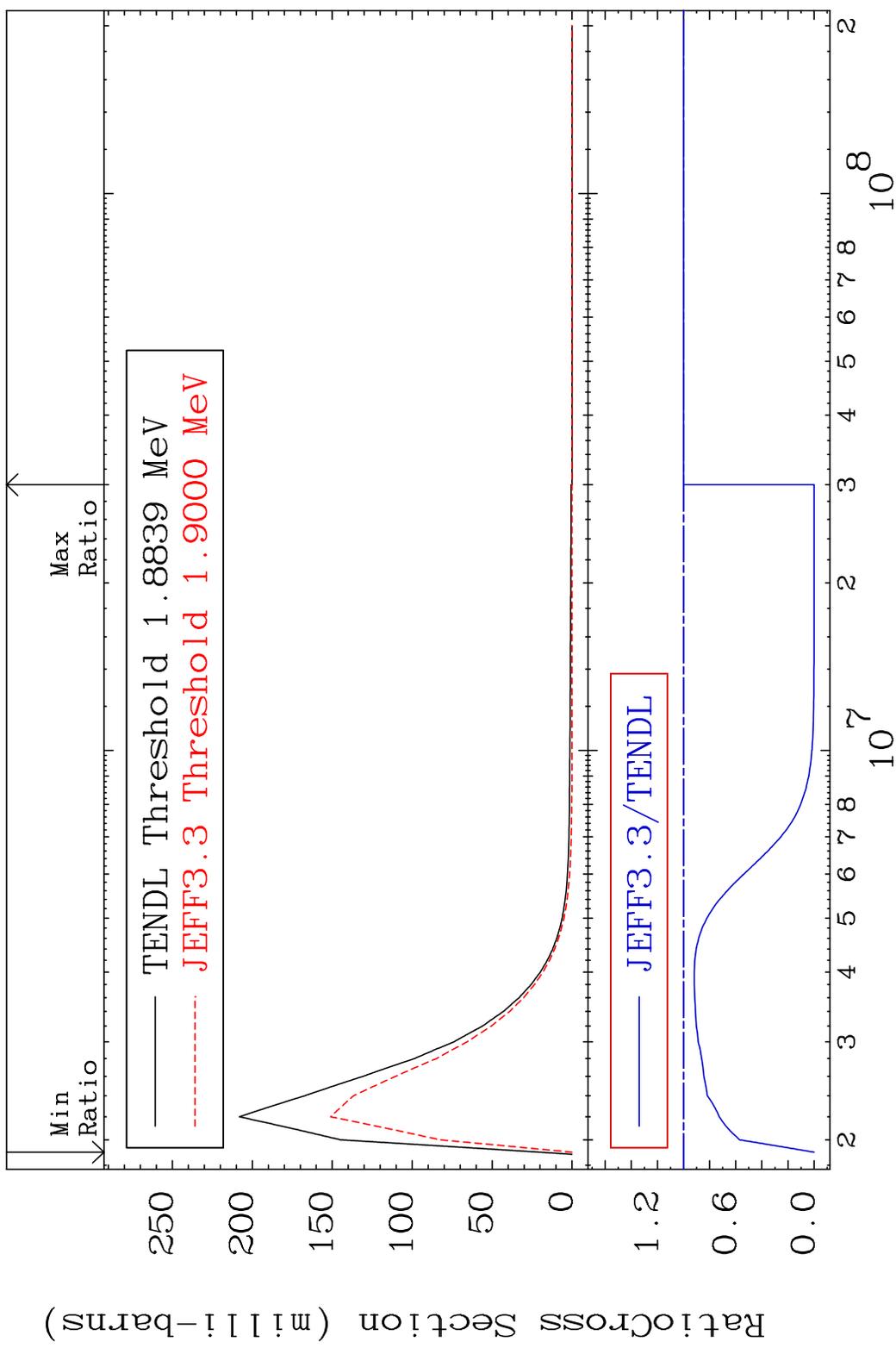


MAT 4437 MT= 56 (n, n') Level 44-Ru-100
 Cross Section -100.0 To 9999. %



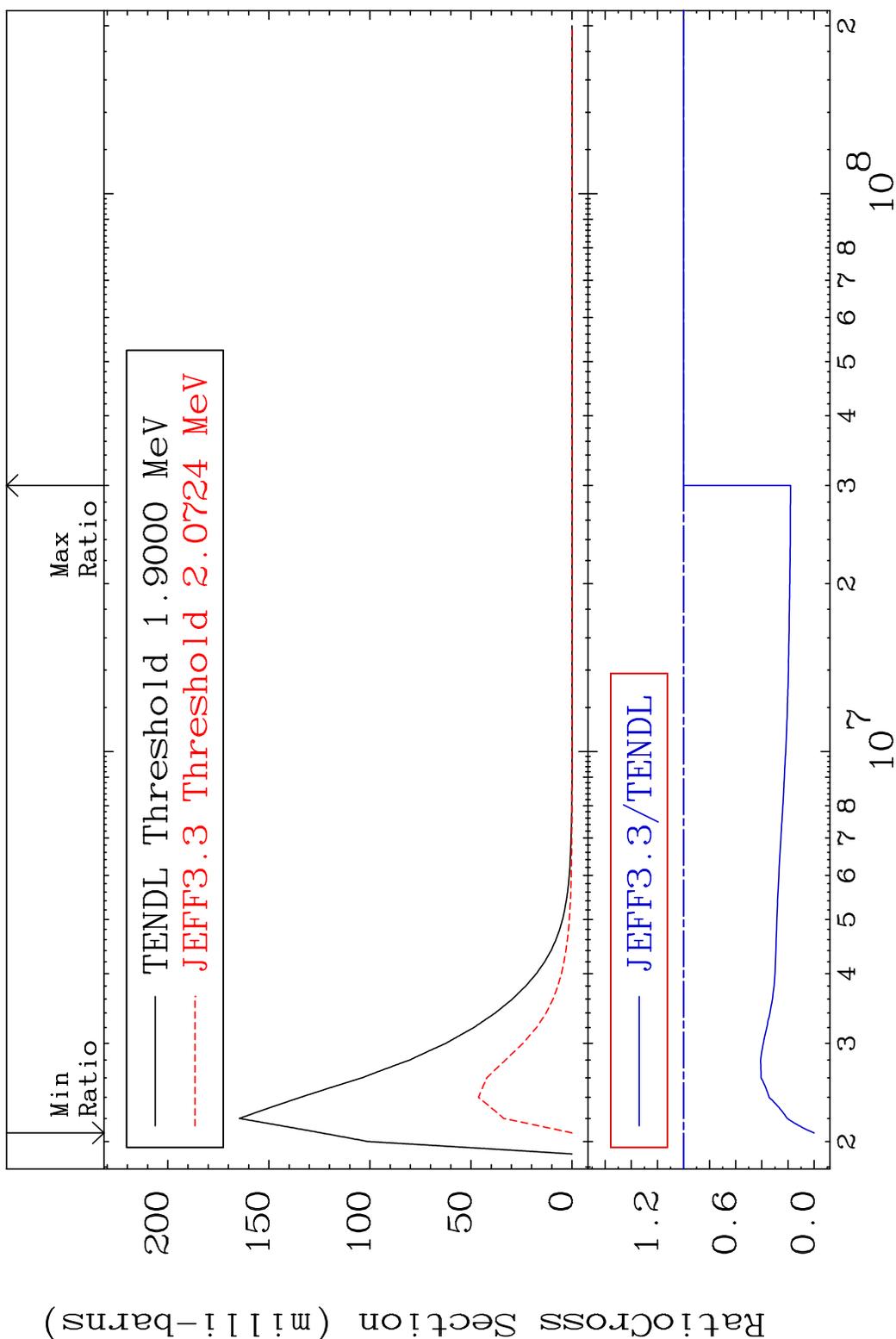
25 Incident Energy (eV) 44-Ru-100

MAT 4437 MT= 57 (n, n') Level 44-Ru-100
 Cross Section -100.0 To 0.000 %

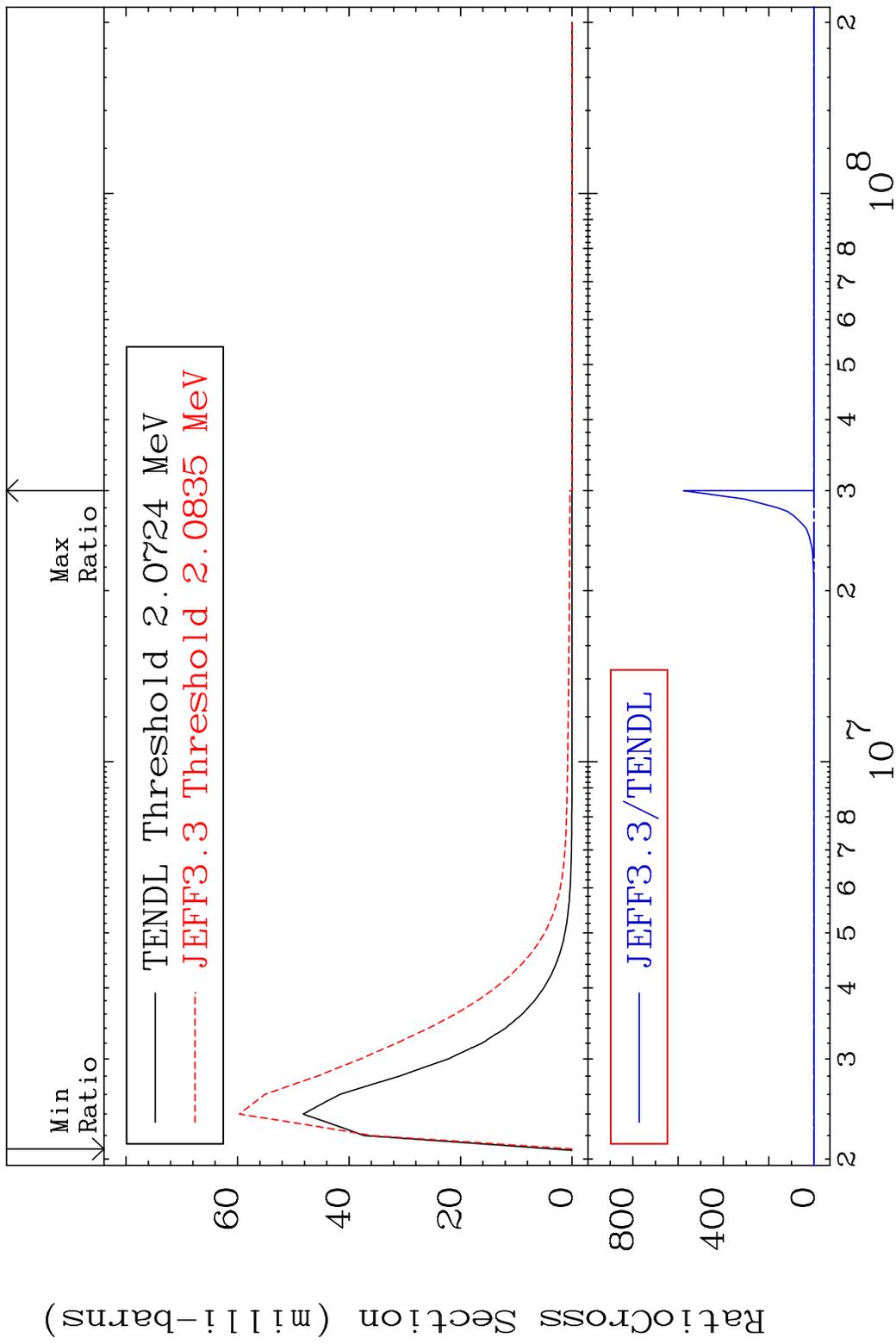


26 Incident Energy (eV) 44-Ru-100

MAT 4437 MT= 58 (n, n') Level 44-Ru-100
 Cross Section -100.0 To 0.000 %

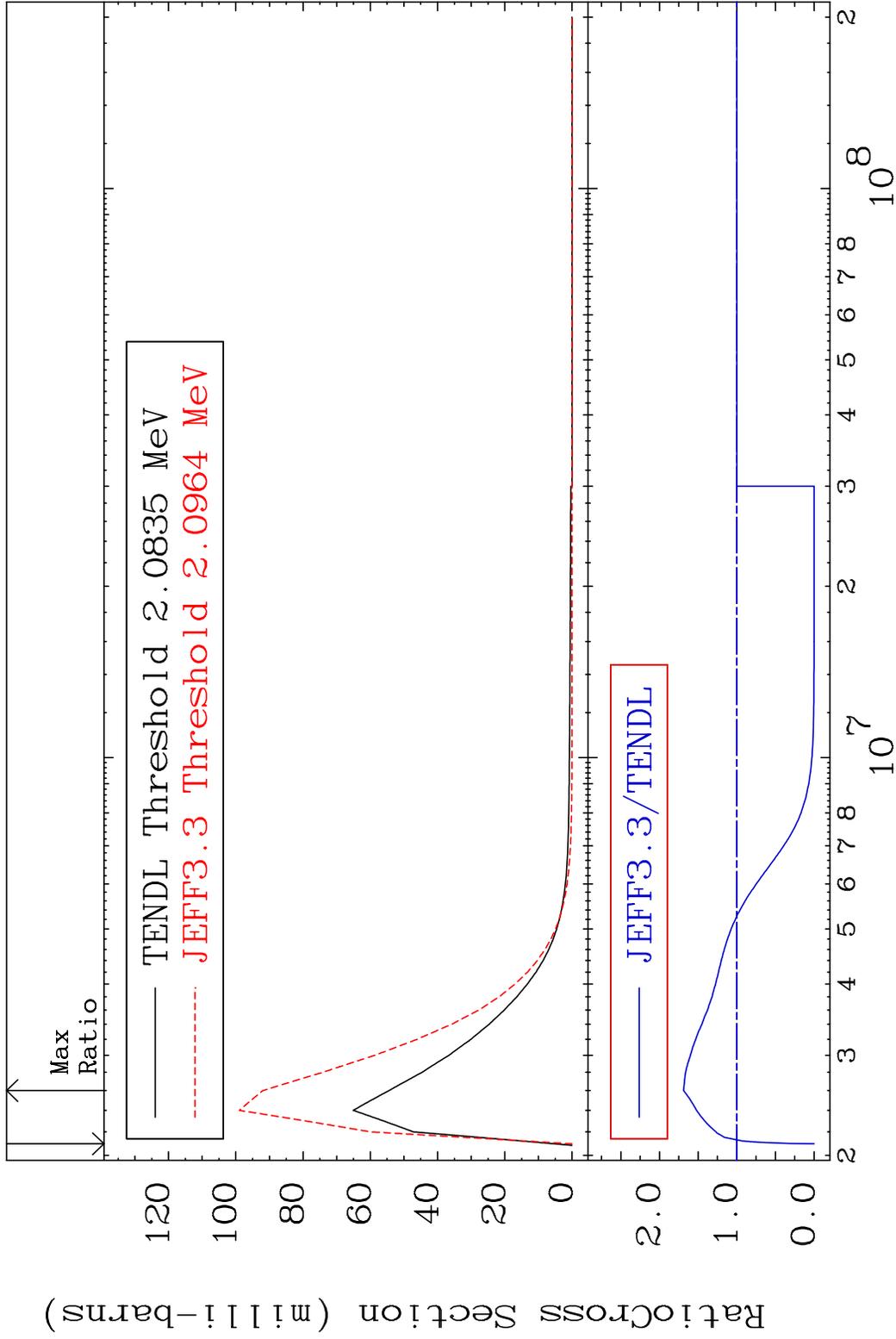


MAT 4437 MT= 59 (n, n') Level 44-Ru-100
 Cross Section -100.0 To 9999. %

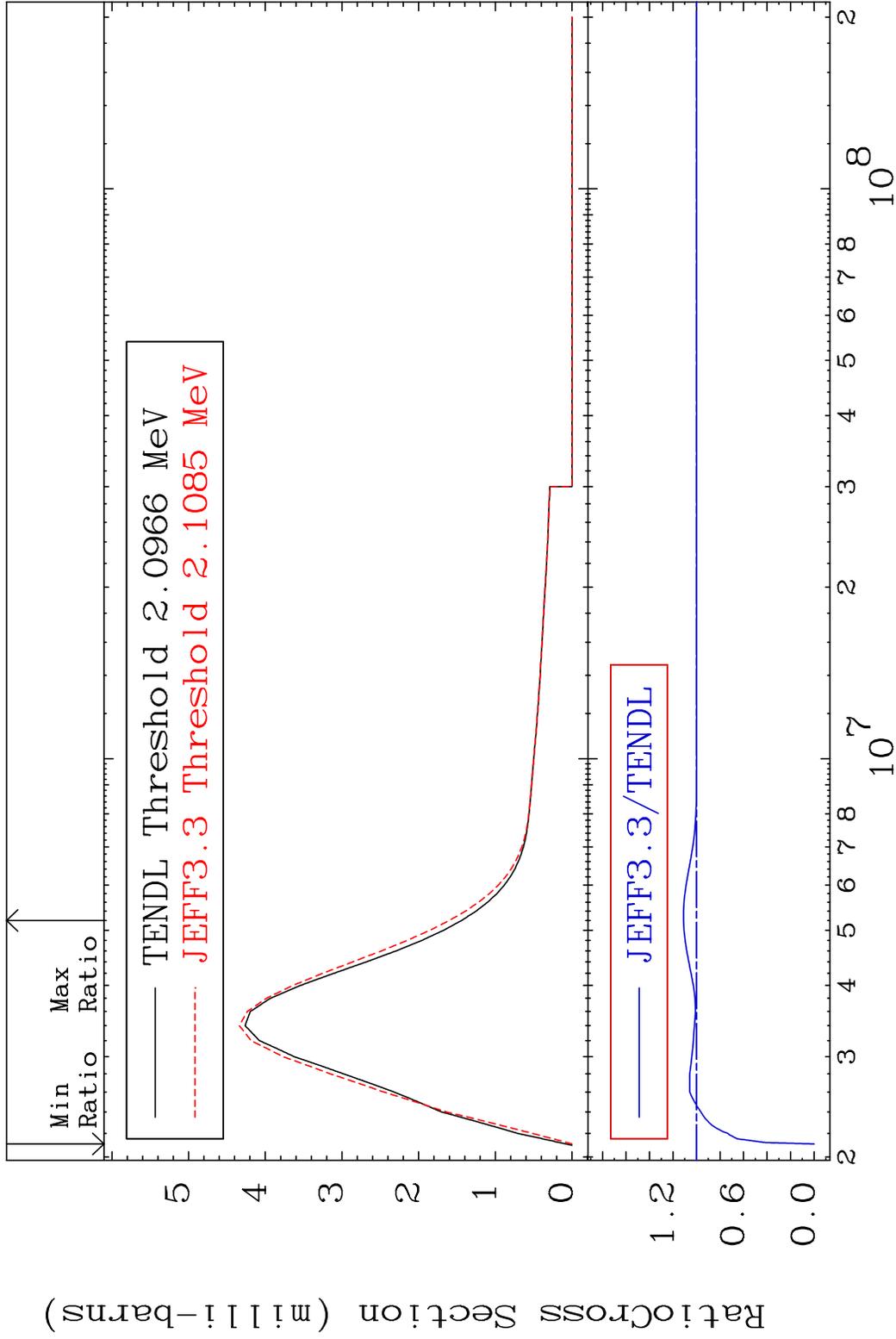


28 44-Ru-100

MAT 4437 MT= 60 (n, n') Level 44-Ru-100
 Cross Section -100.0 To 68.88 %

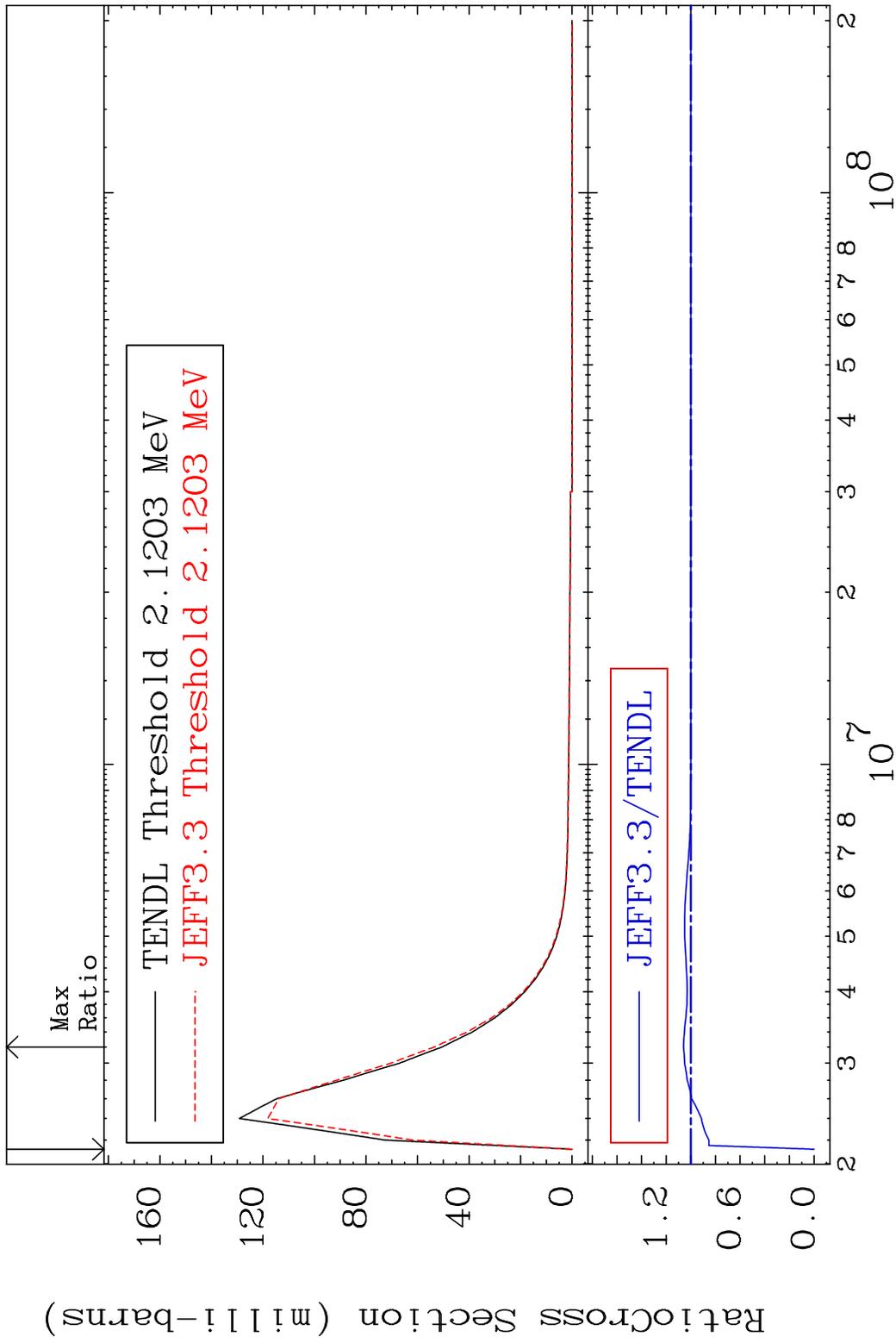


MAT 4437 MT= 61 (n, n') Level 44-Ru-100
 Cross Section -100.0 To 11.09 %



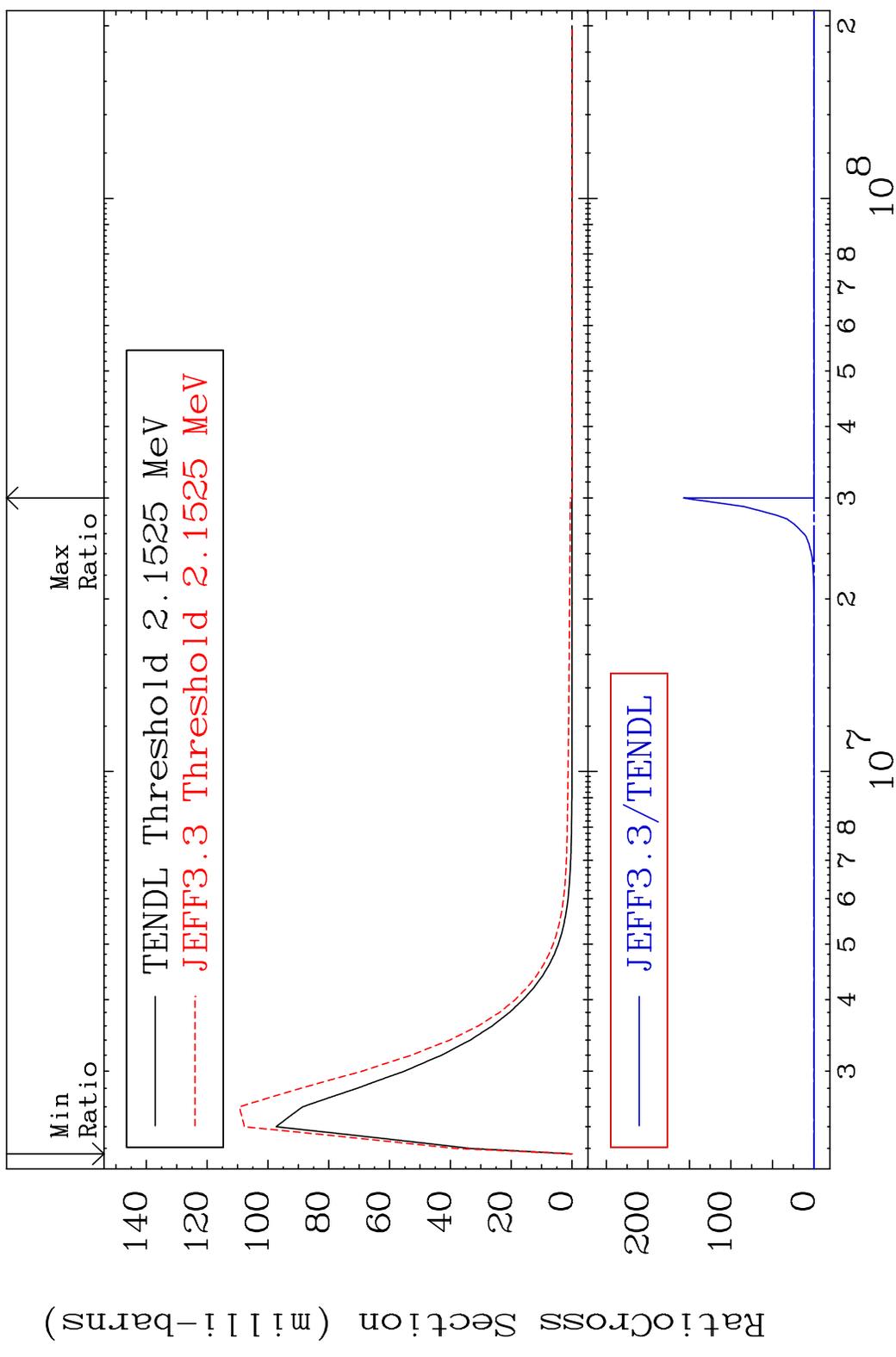
30 Incident Energy (eV) 44-Ru-100

MAT 4437 MT= 62 (n, n') Level 44-Ru-100
 Cross Section -100.0 To 5.941 %



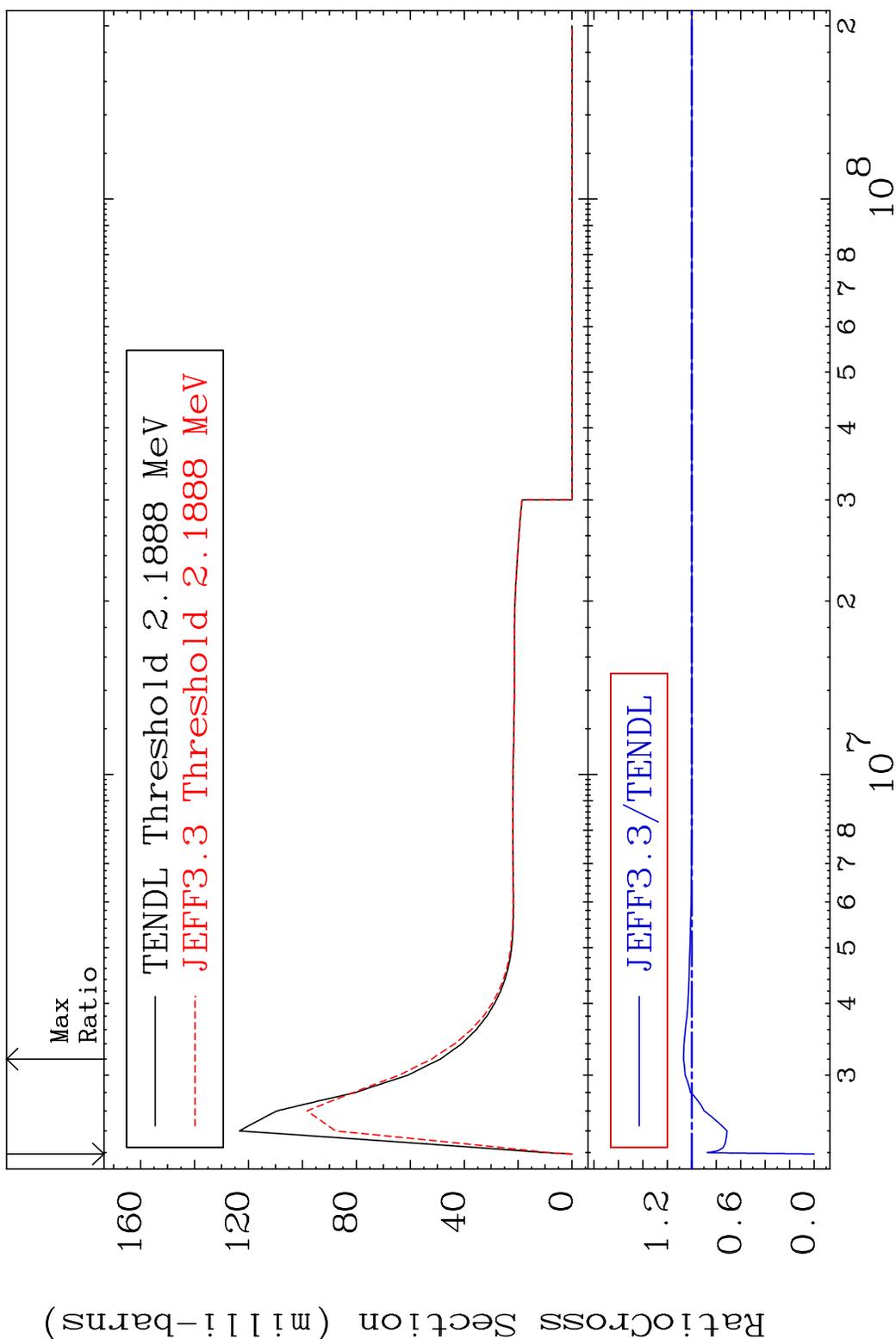
31 44-Ru-100

MAT 4437 MT= 63 (n, n') Level 44-Ru-100
 Cross Section -100.0 To 9999. %



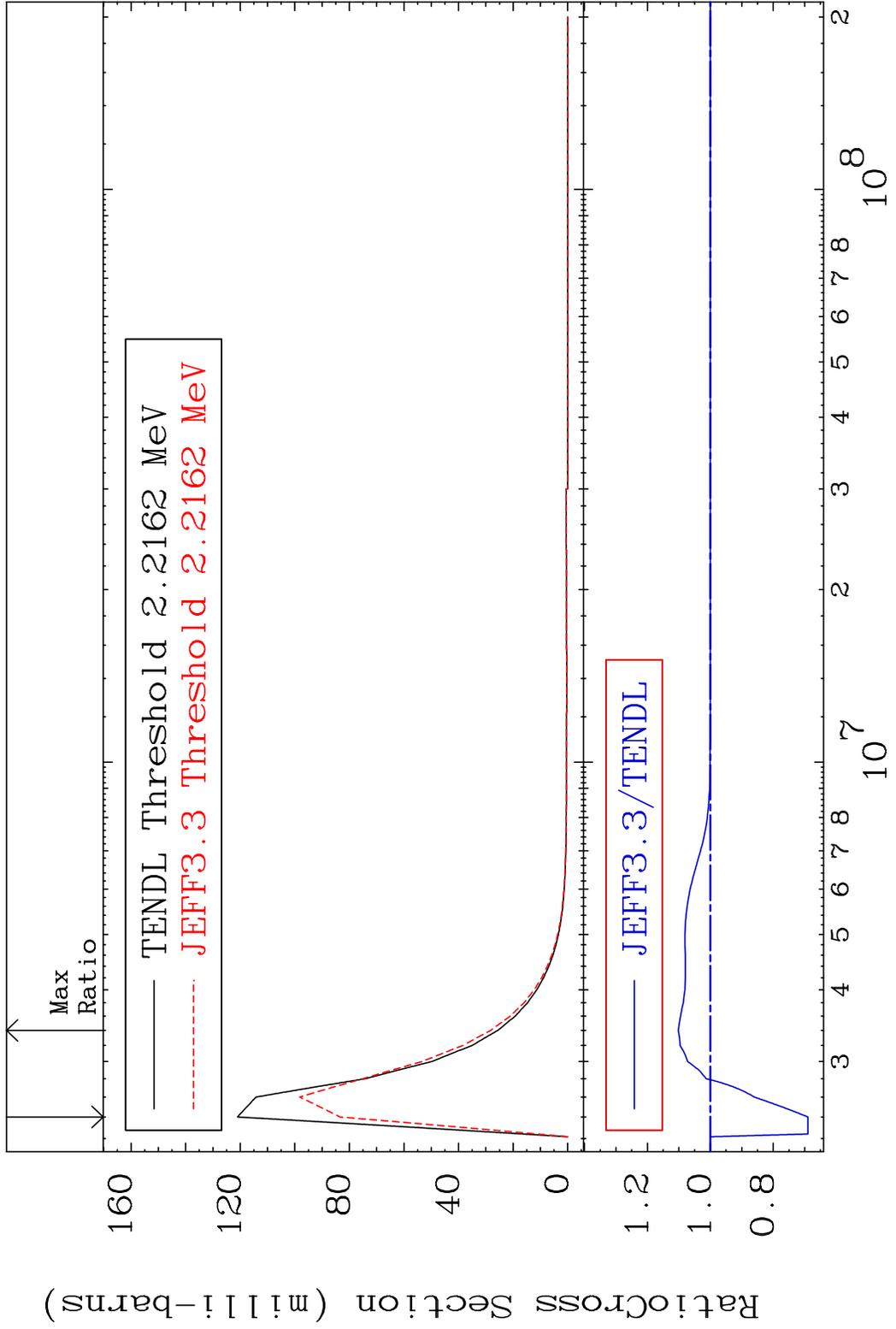
32 44-Ru-100

MAT 4437 MT= 64 (n, n') Level 44-Ru-100
 Cross Section -100.0 To 6.714 %

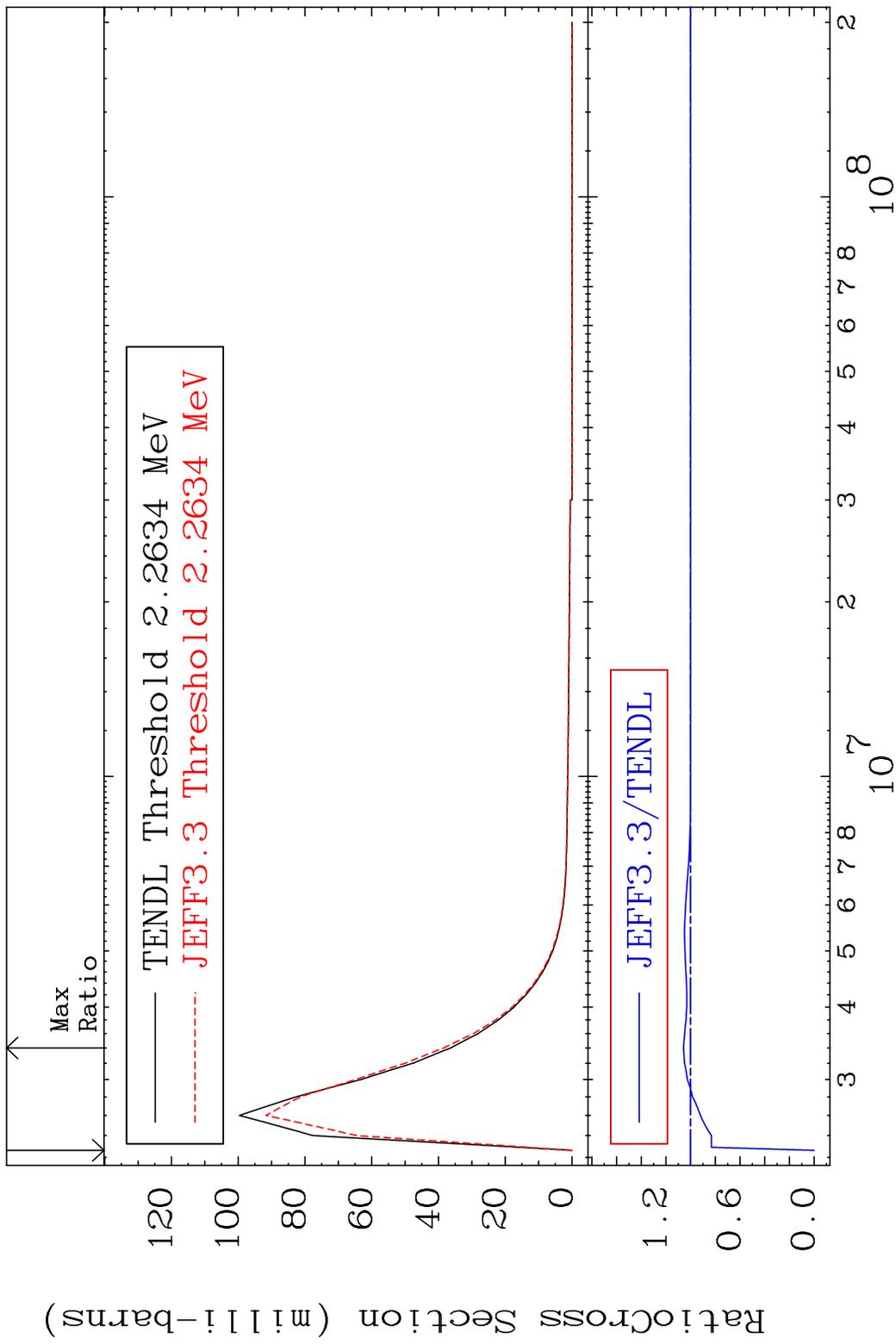


33 Incident Energy (eV) 44-Ru-100

MAT 4437 MT= 65 (n, n') Level 44-Ru-100
 Cross Section -30.98 To 10.19 %

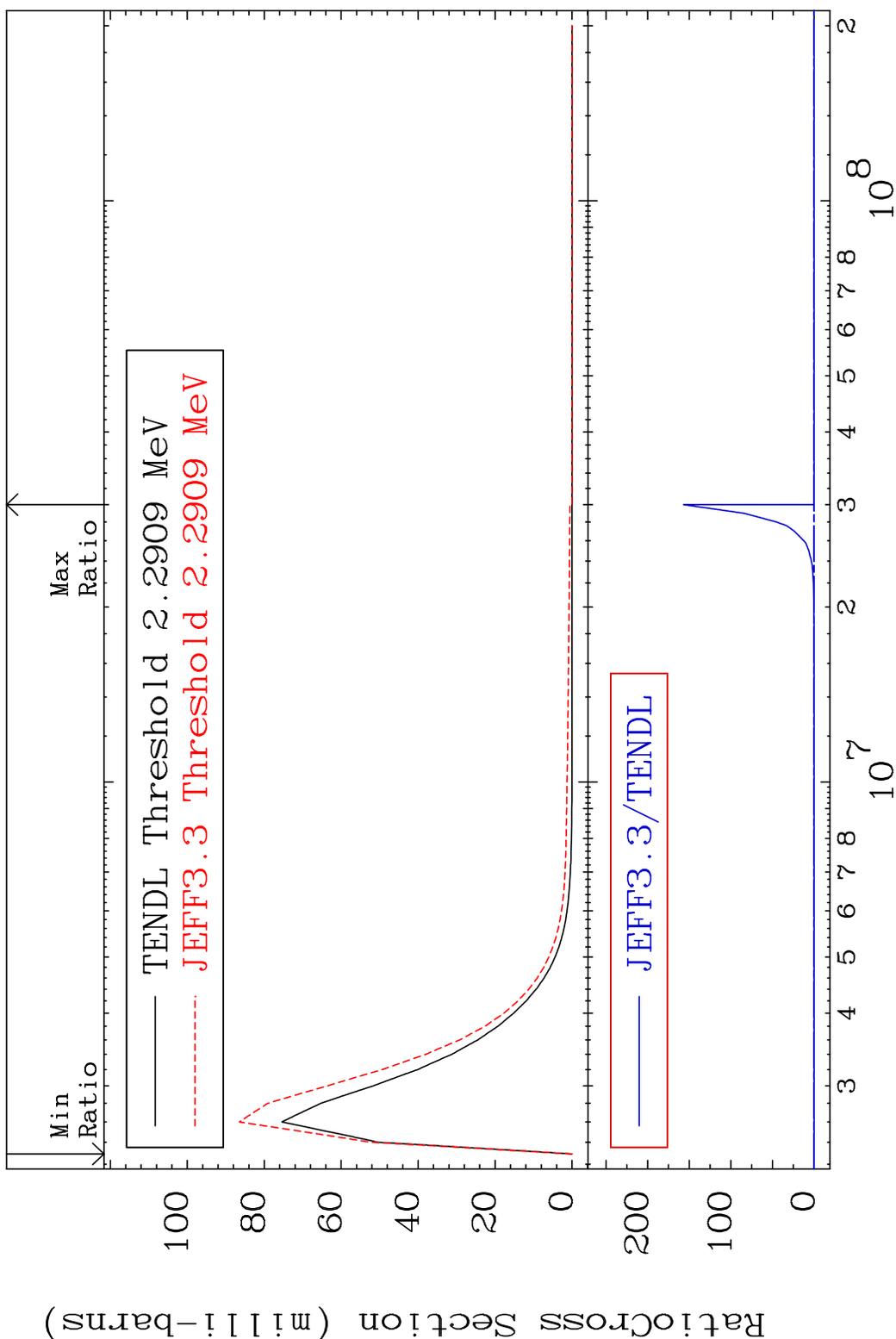


MAT 4437 MT= 66 (n, n') Level 44-Ru-100
 Cross Section -100.0 To 5.725 %

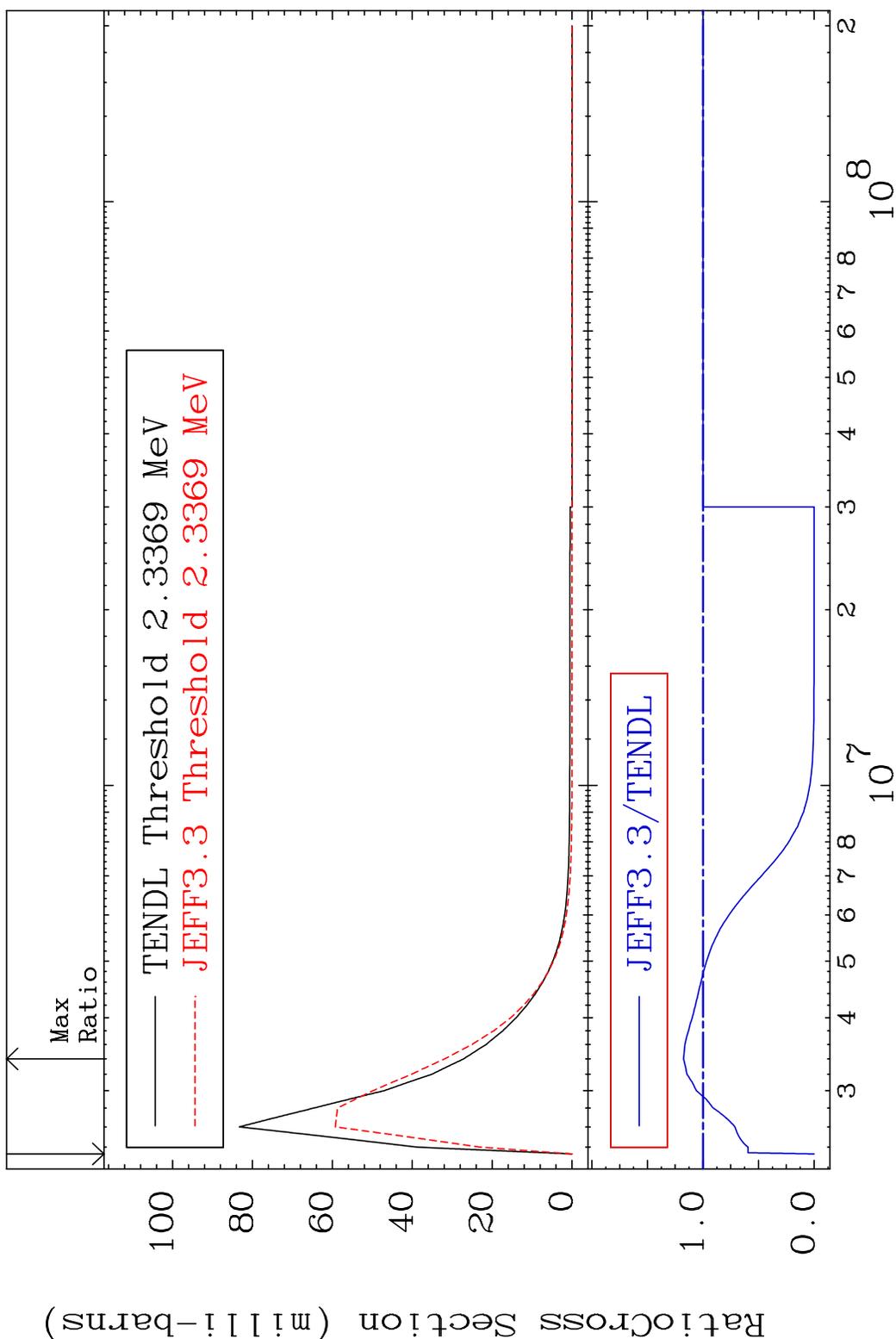


35 Incident Energy (eV) 44-Ru-100

MAT 4437 MT= 67 (n, n') Level 44-Ru-100
 Cross Section -100.0 To 9999. %

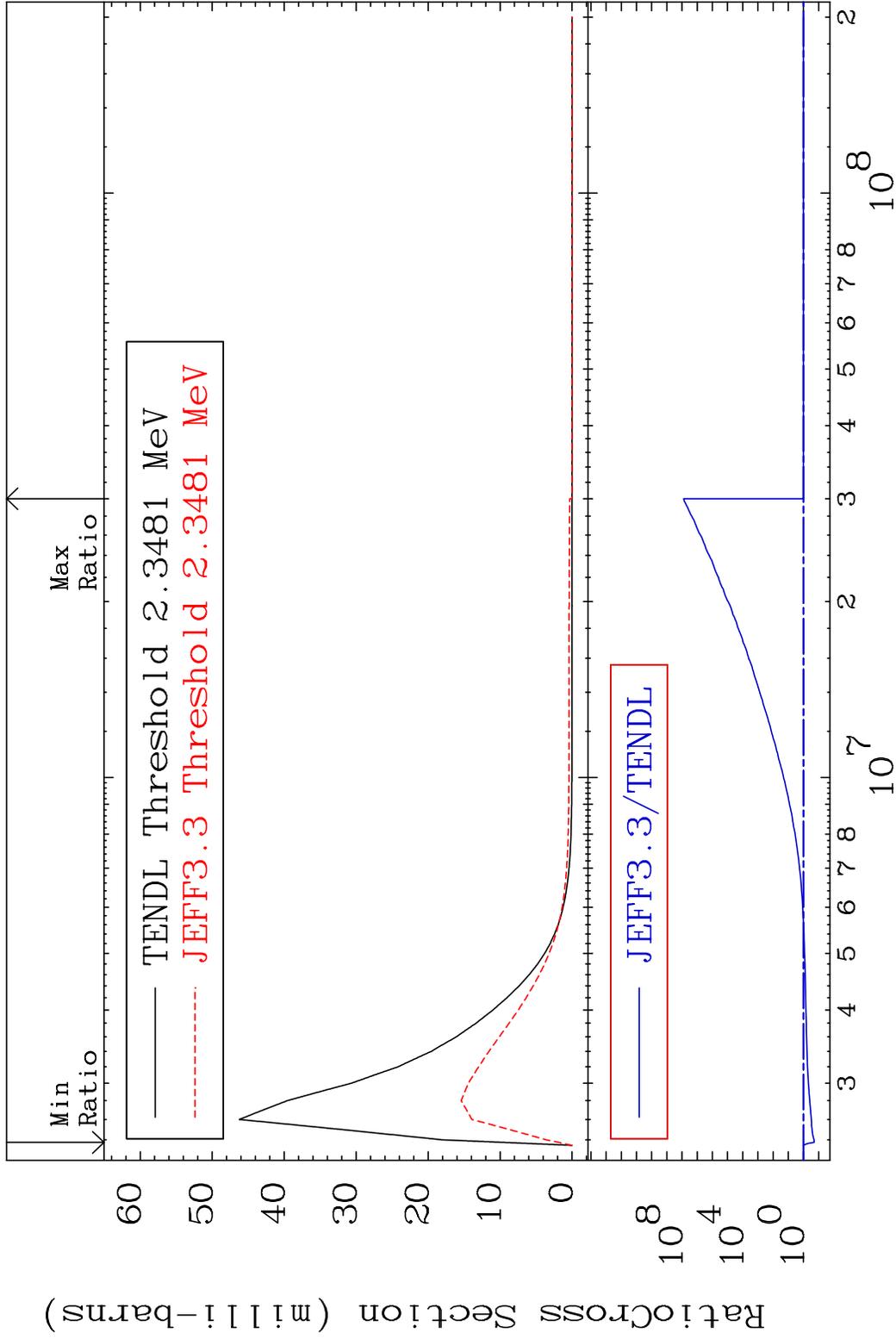


MAT 4437 MT= 68 (n, n') Level 44-Ru-100
 Cross Section -100.0 To 17.52 %

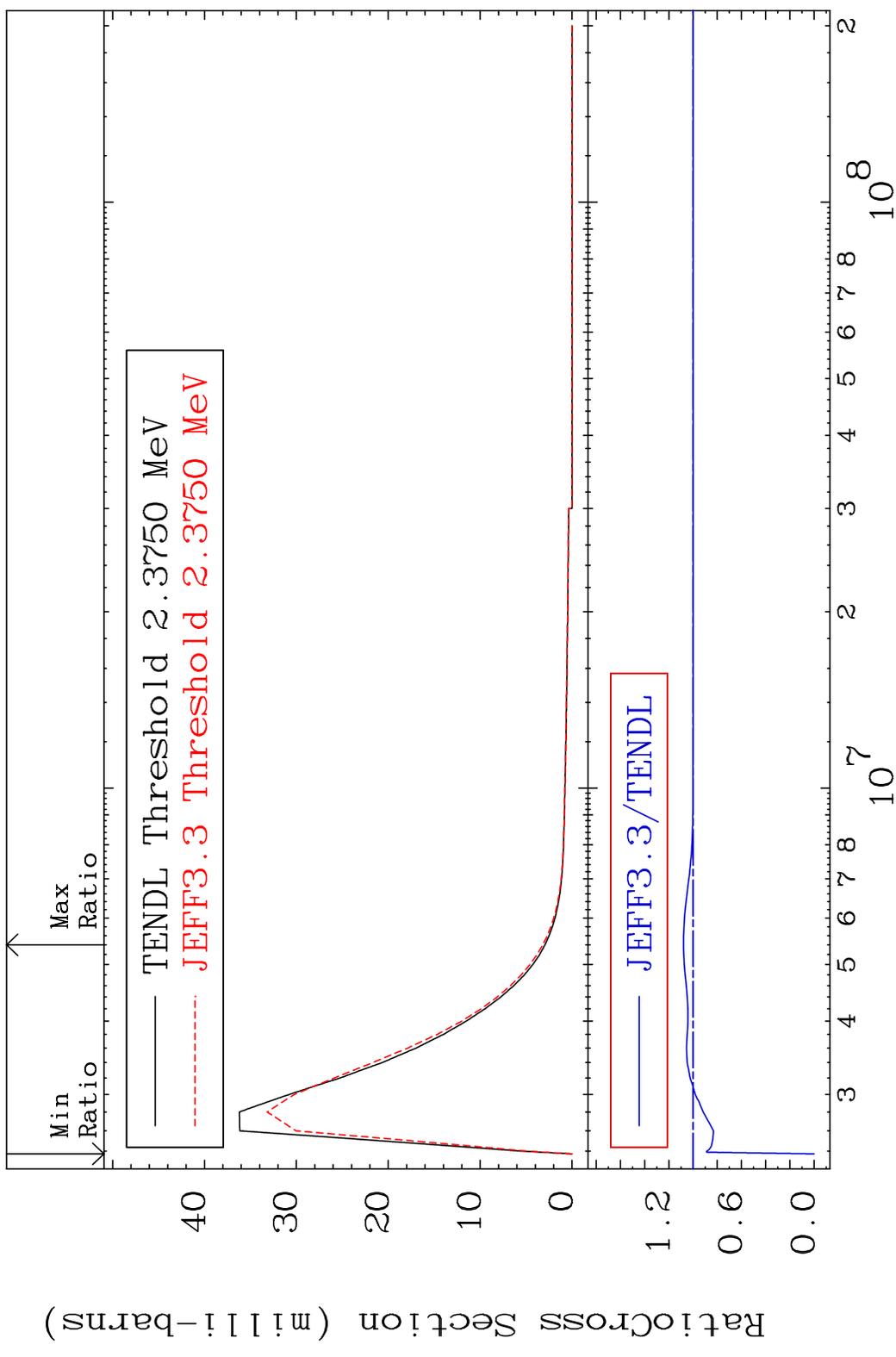


37 Incident Energy (eV) 44-Ru-100

MAT 4437 MT= 69 (n, n') Level 44-Ru-100
 Cross Section -80.03 To 9999. %

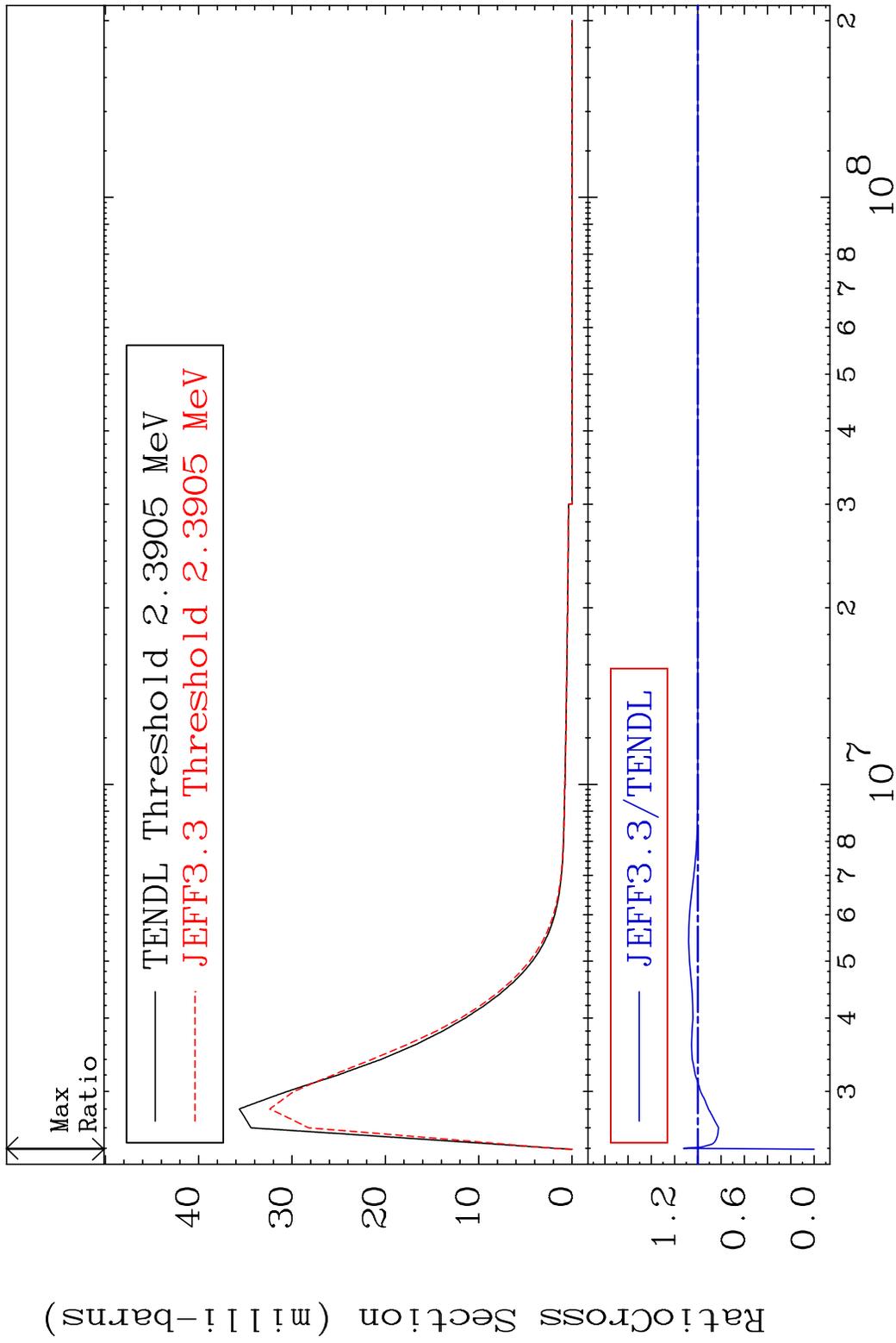


MAT 4437 MT= 70 (n, n') Level 44-Ru-100
 Cross Section -100.0 To 7.887 %



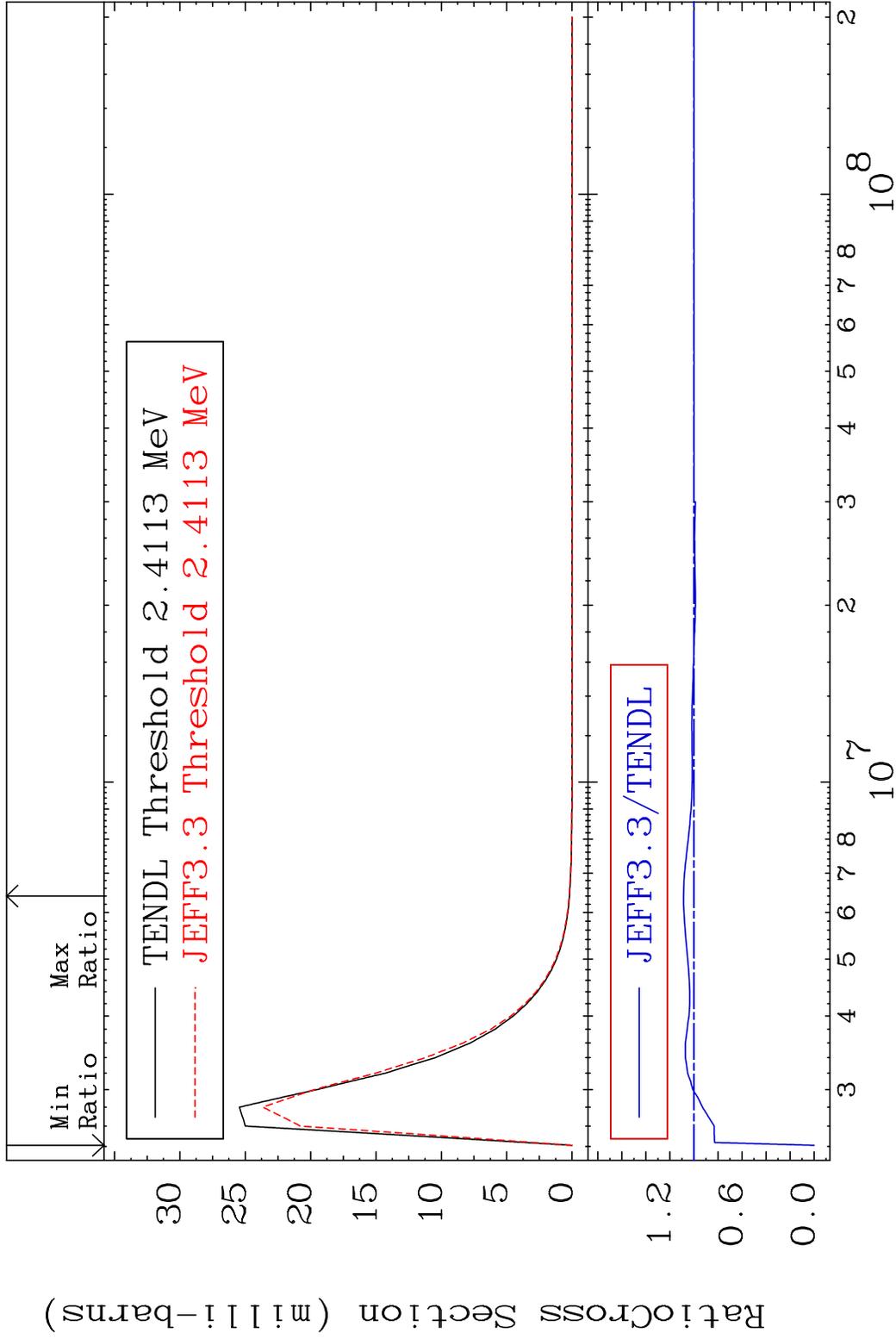
39 Incident Energy (eV) 44-Ru-100

MAT 4437 MT= 71 (n, n') Level 44-Ru-100
 Cross Section -100.0 To 12.32 %



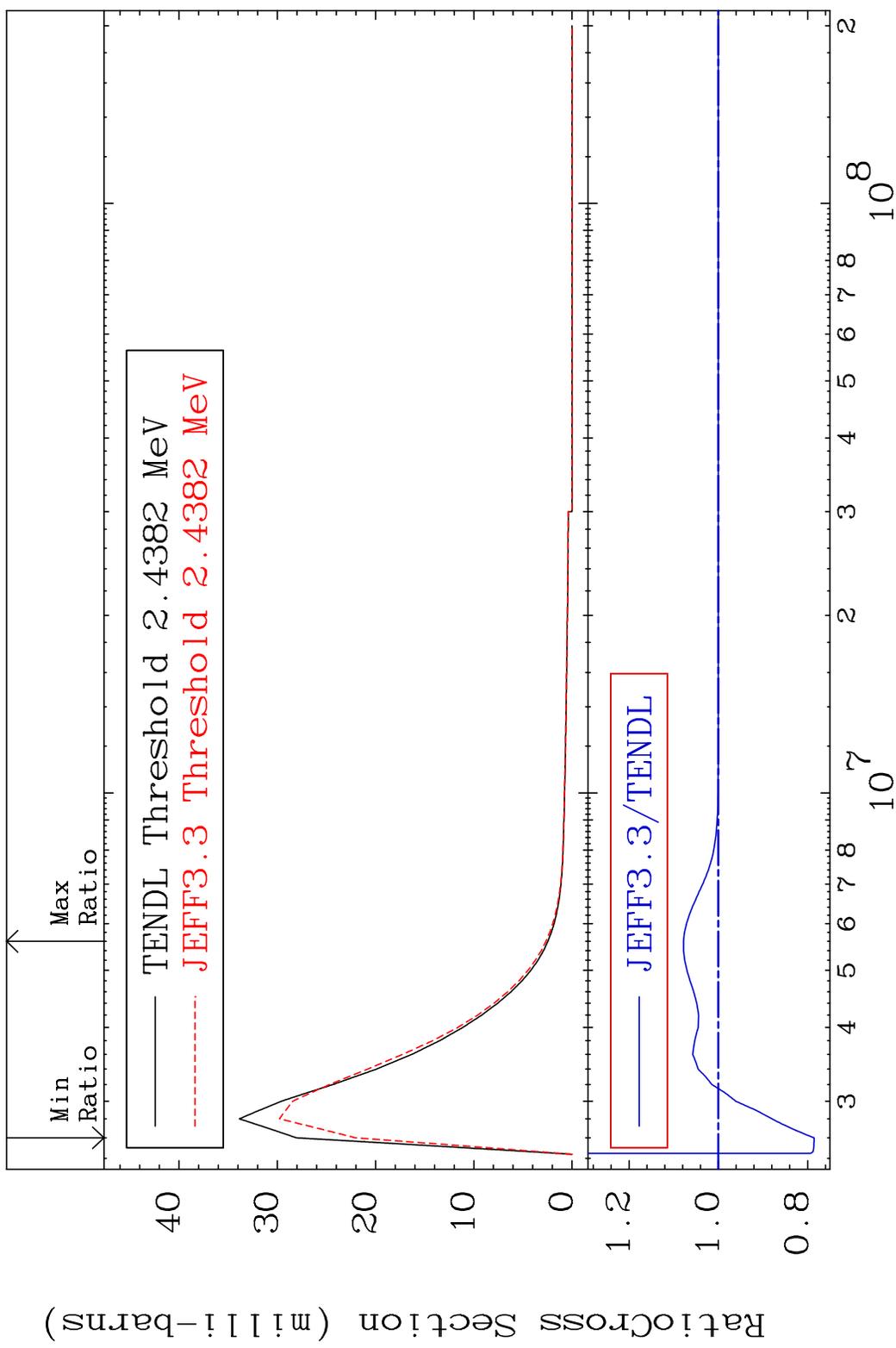
40 44-Ru-100

MAT 4437 MT= 72 (n, n') Level 44-Ru-100
 Cross Section -100.0 To 8.696 %



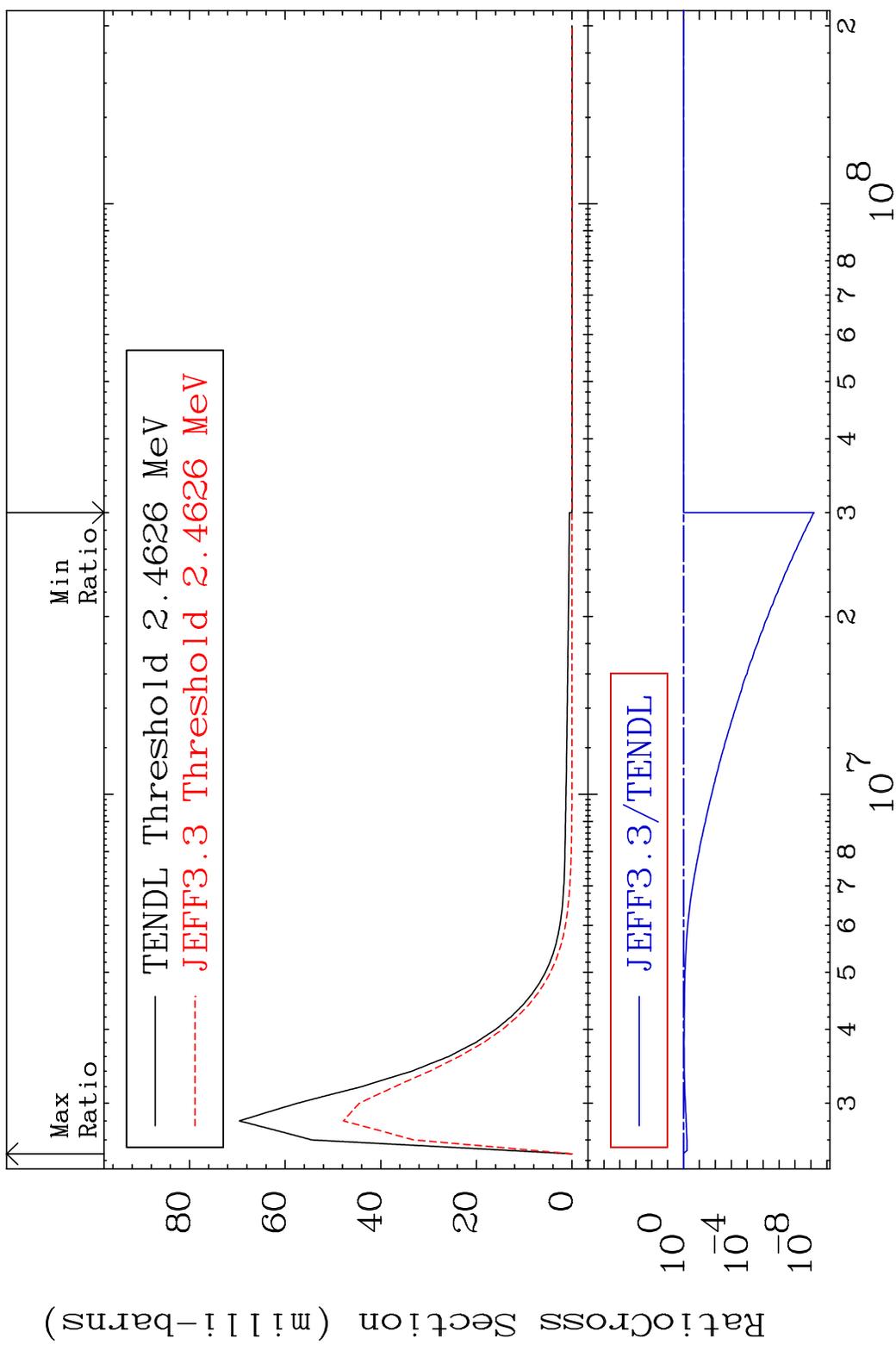
41 Incident Energy (eV) 44-Ru-100

MAT 4437 MT= 73 (n, n') Level 44-Ru-100
 Cross Section -21.45 To 7.794 %



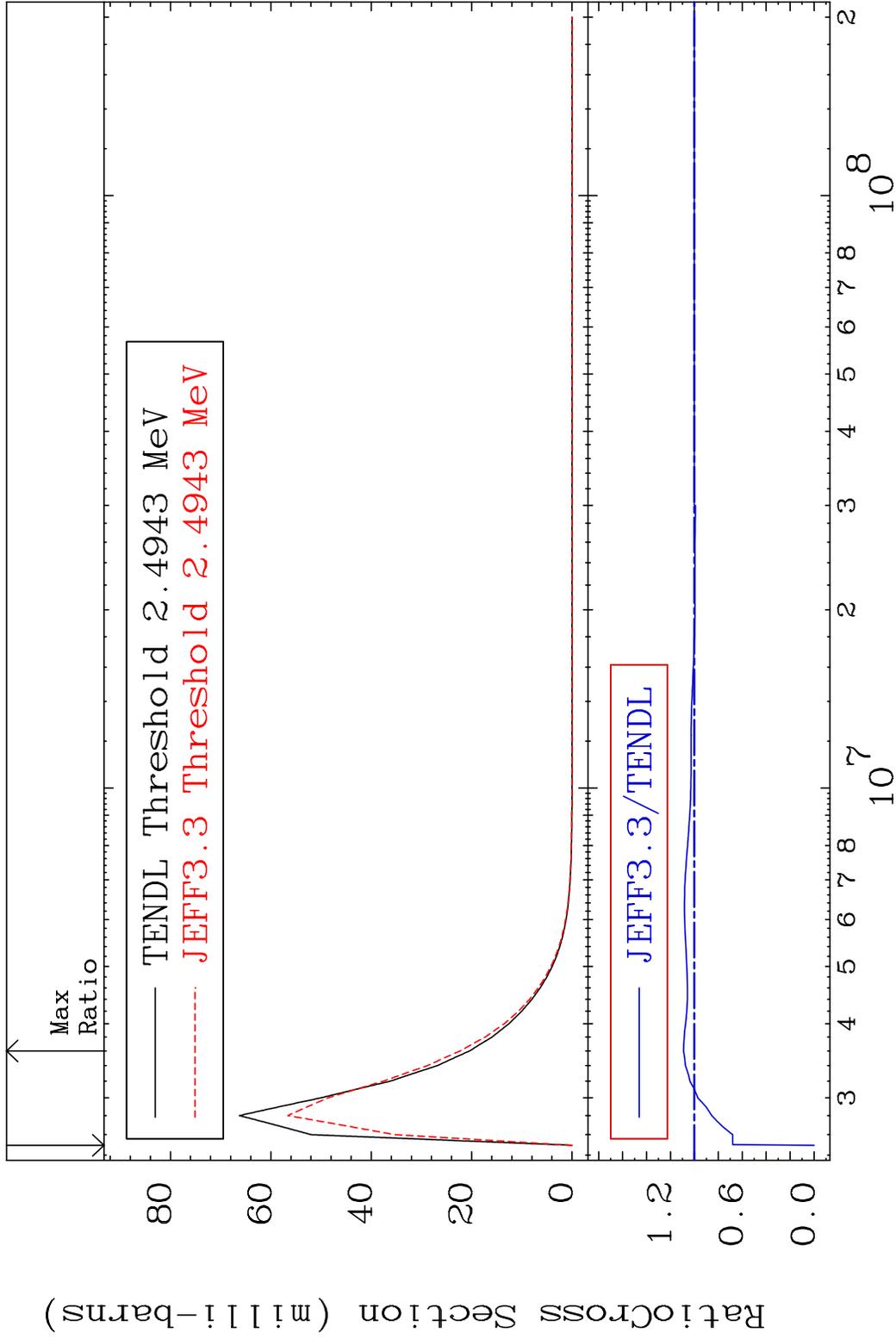
42 Incident Energy (eV) 44-Ru-100

MAT 4437 MT= 74 (n, n') Level 44-Ru-100
 Cross Section -100.0 To 0.000 %



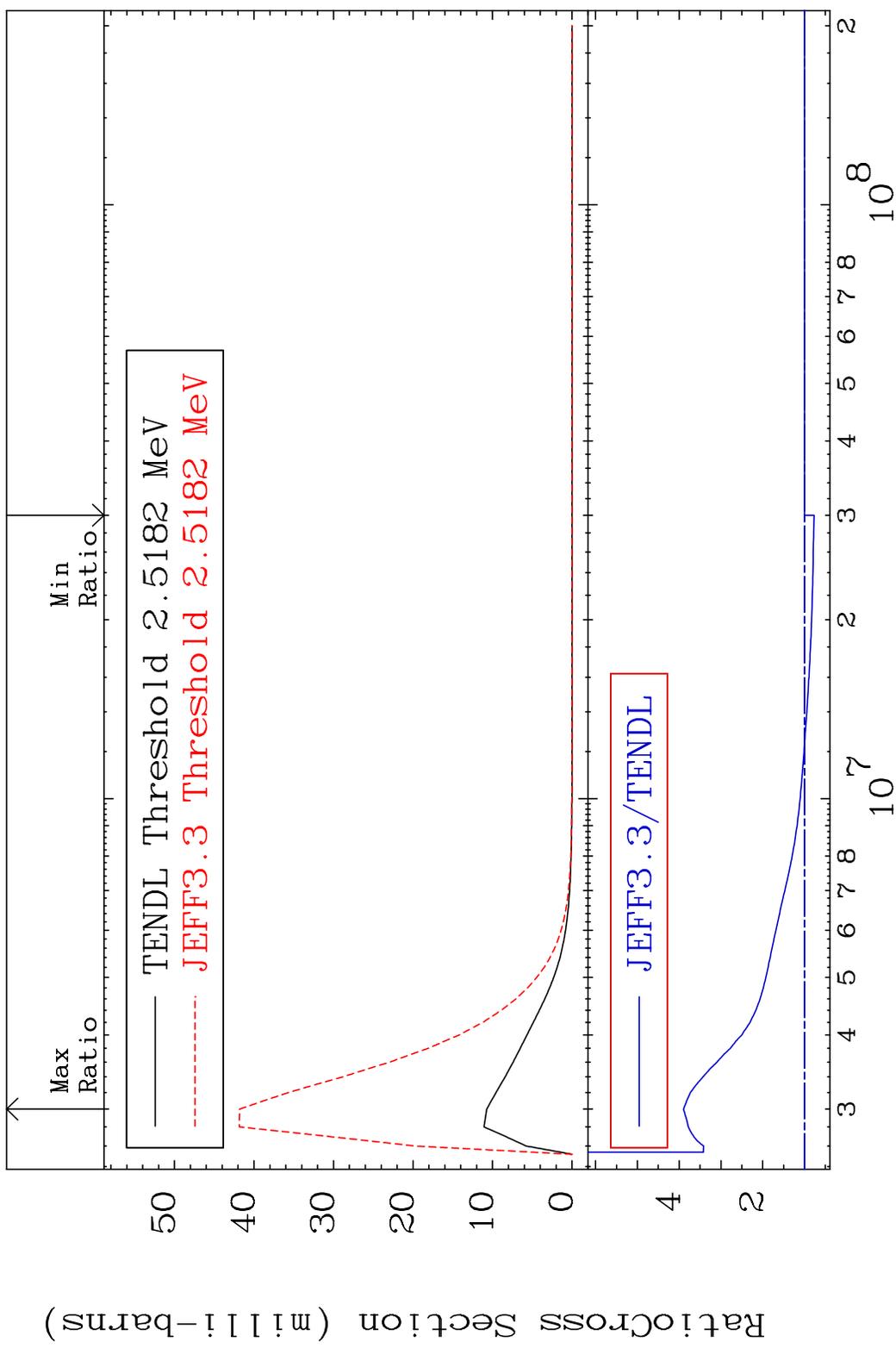
43 Incident Energy (eV) 44-Ru-100

MAT 4437 MT= 75 (n, n') Level 44-Ru-100
 Cross Section -100.0 To 9.085 %



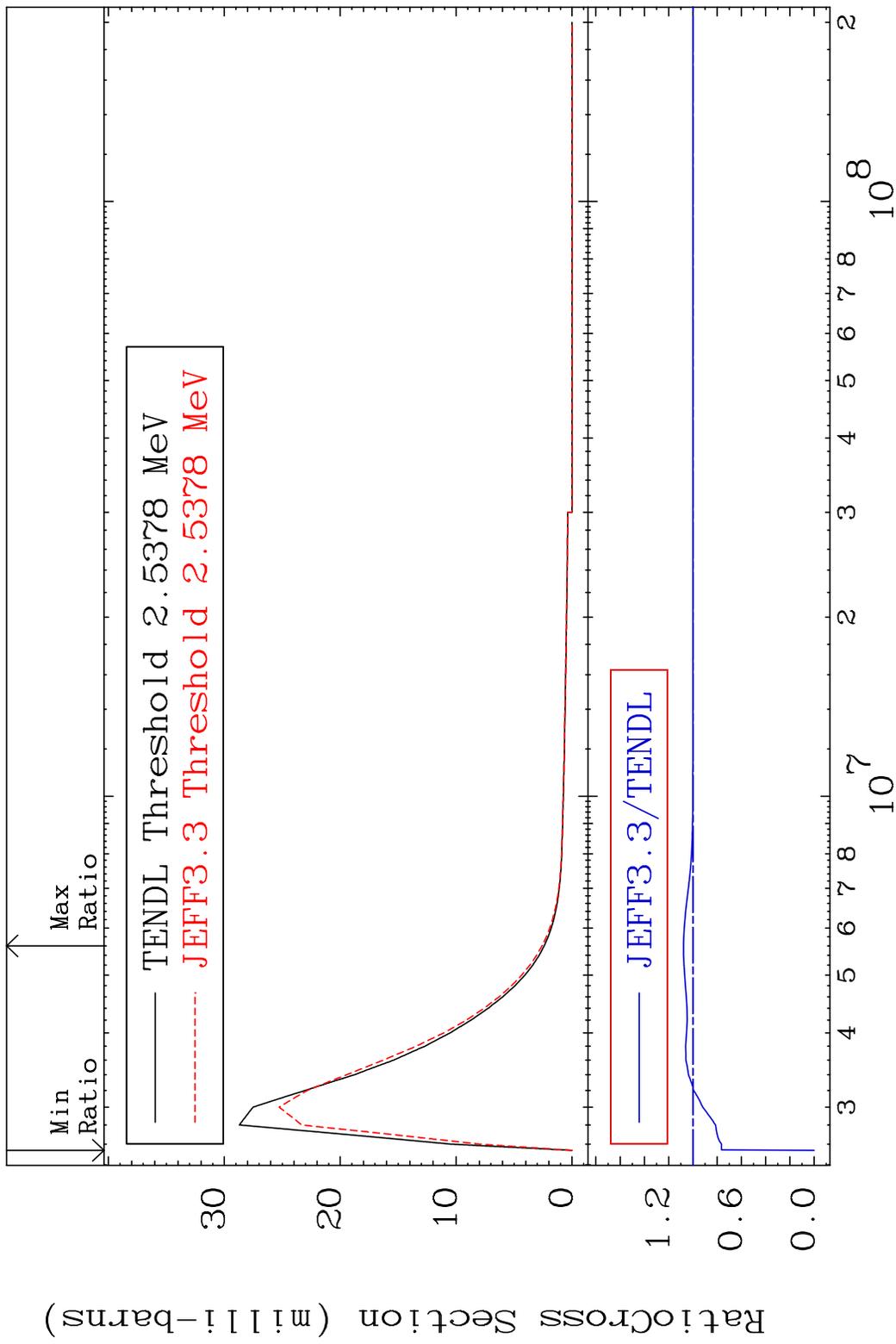
44 Incident Energy (eV) 44-Ru-100

MAT 4437 MT= 76 (n, n') Level 44-Ru-100
 Cross Section -22.85 To 289.6 %



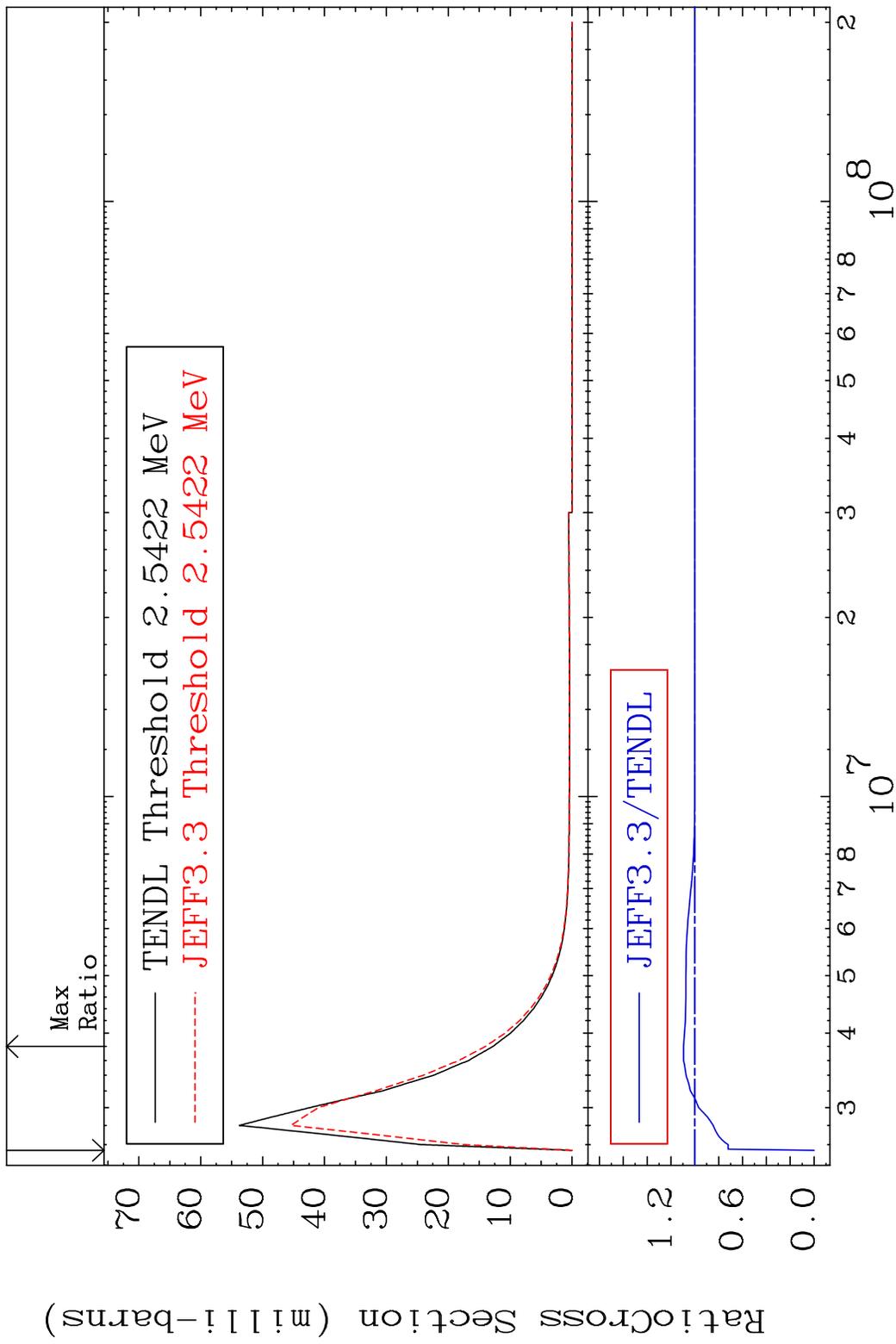
45 Incident Energy (eV) 44-Ru-100

MAT 4437 MT= 77 (n, n') Level 44-Ru-100
 Cross Section -100.0 To 7.690 %



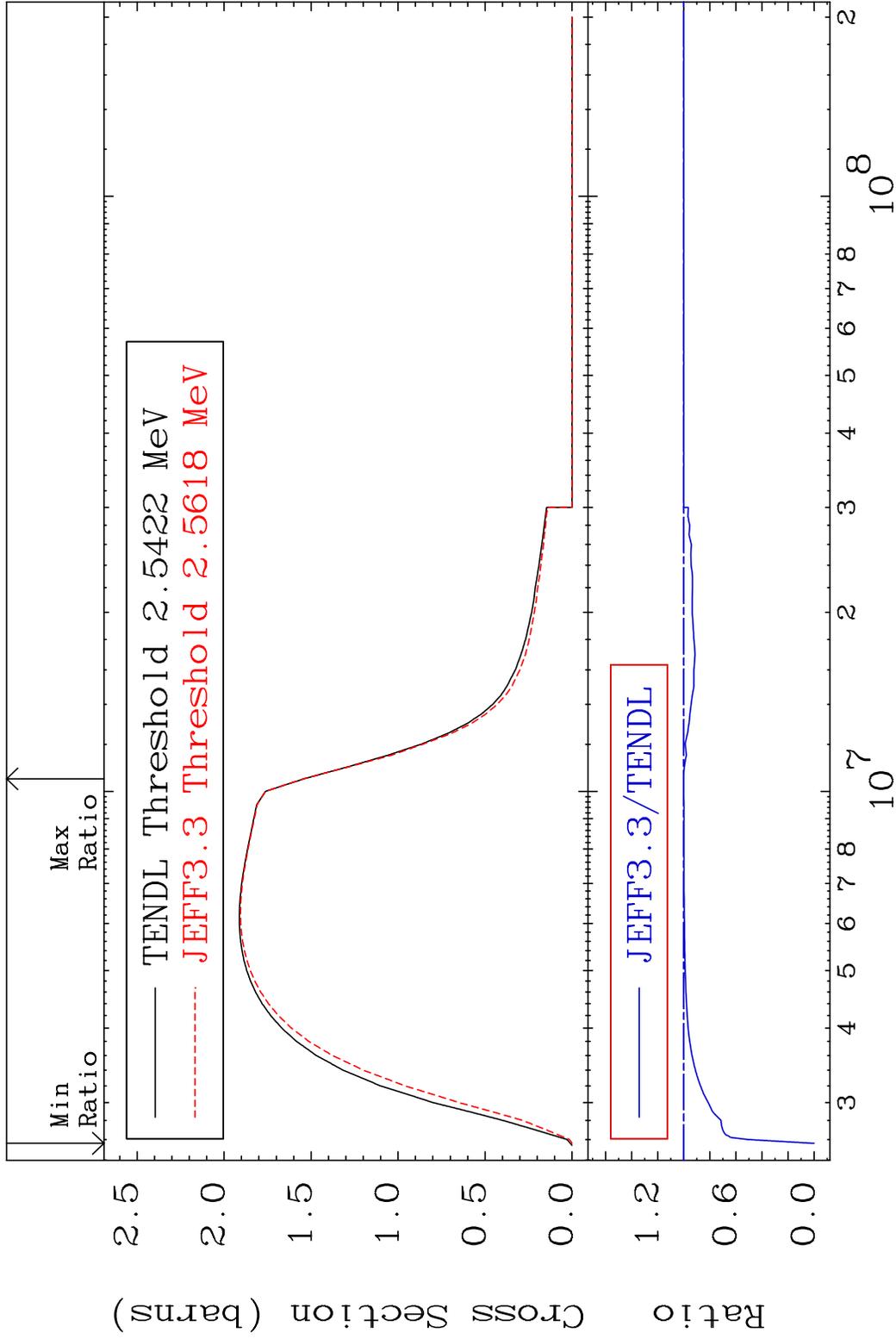
46 Incident Energy (eV) 44-Ru-100

MAT 4437 MT= 78 (n, n') Level 44-Ru-100
 Cross Section -100.0 To 9.461 %

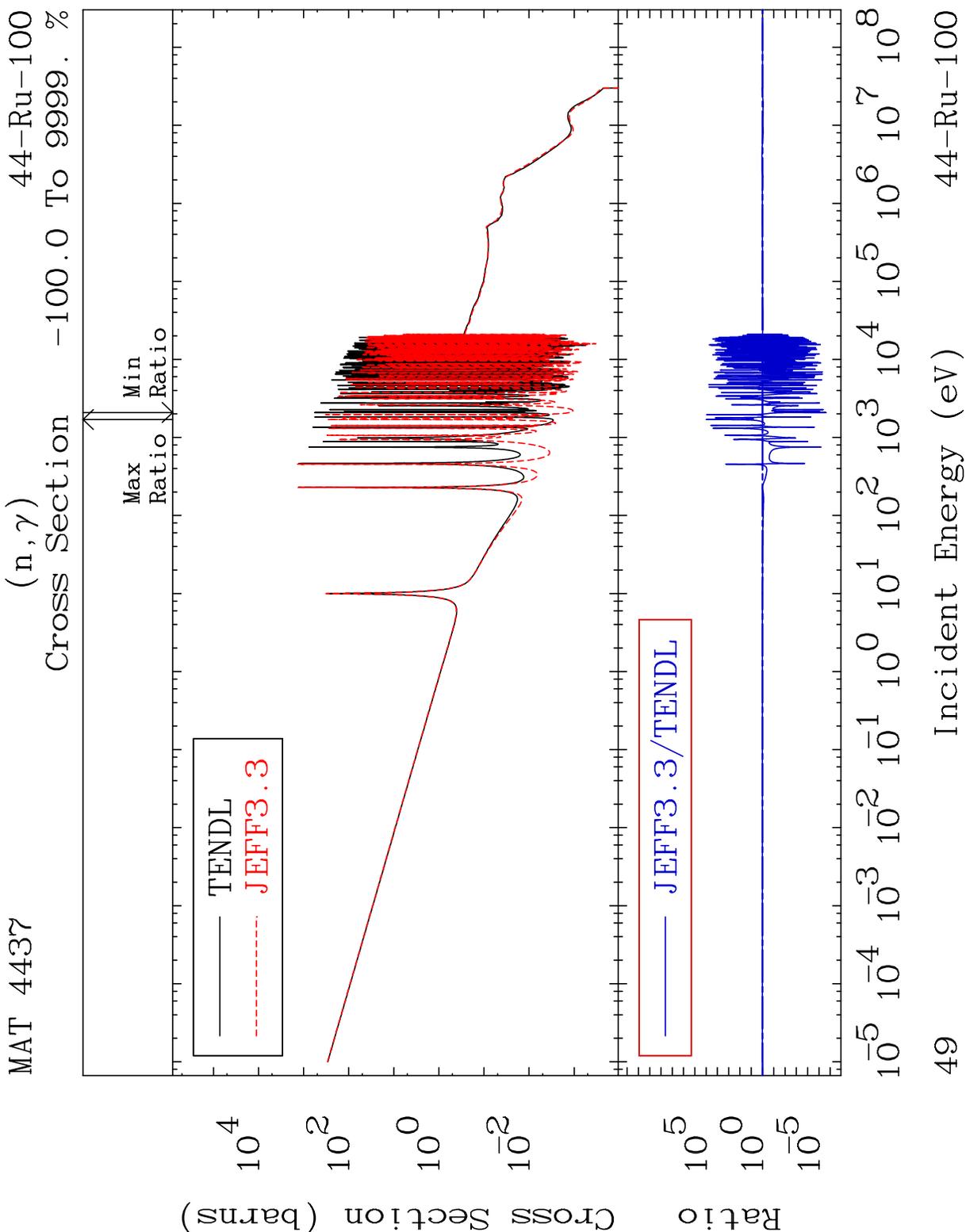


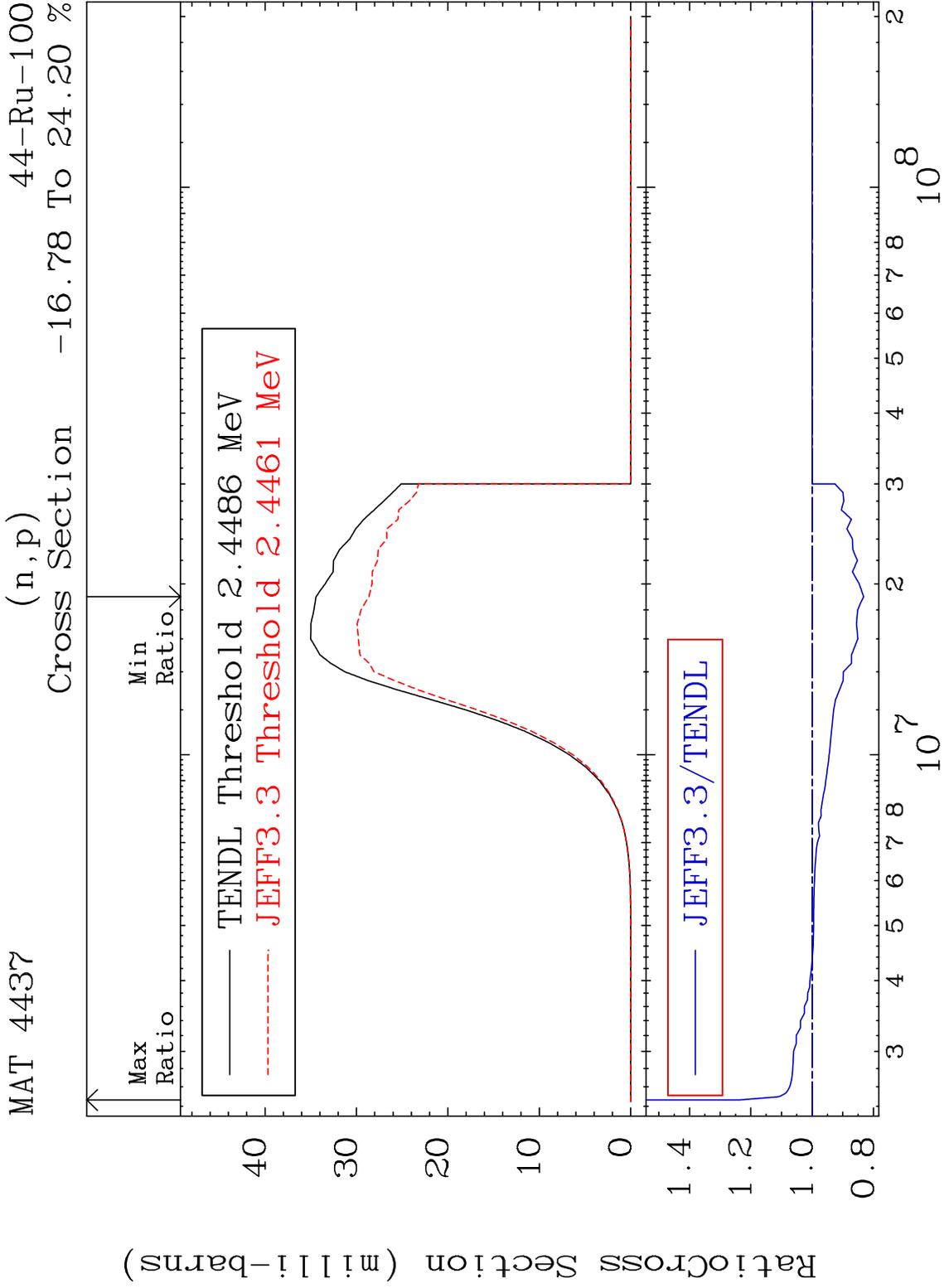
47 44-Ru-100

MAT 4437 (n, n') Continuum 44-Ru-100
 Cross Section -100.0 To 0.222 %

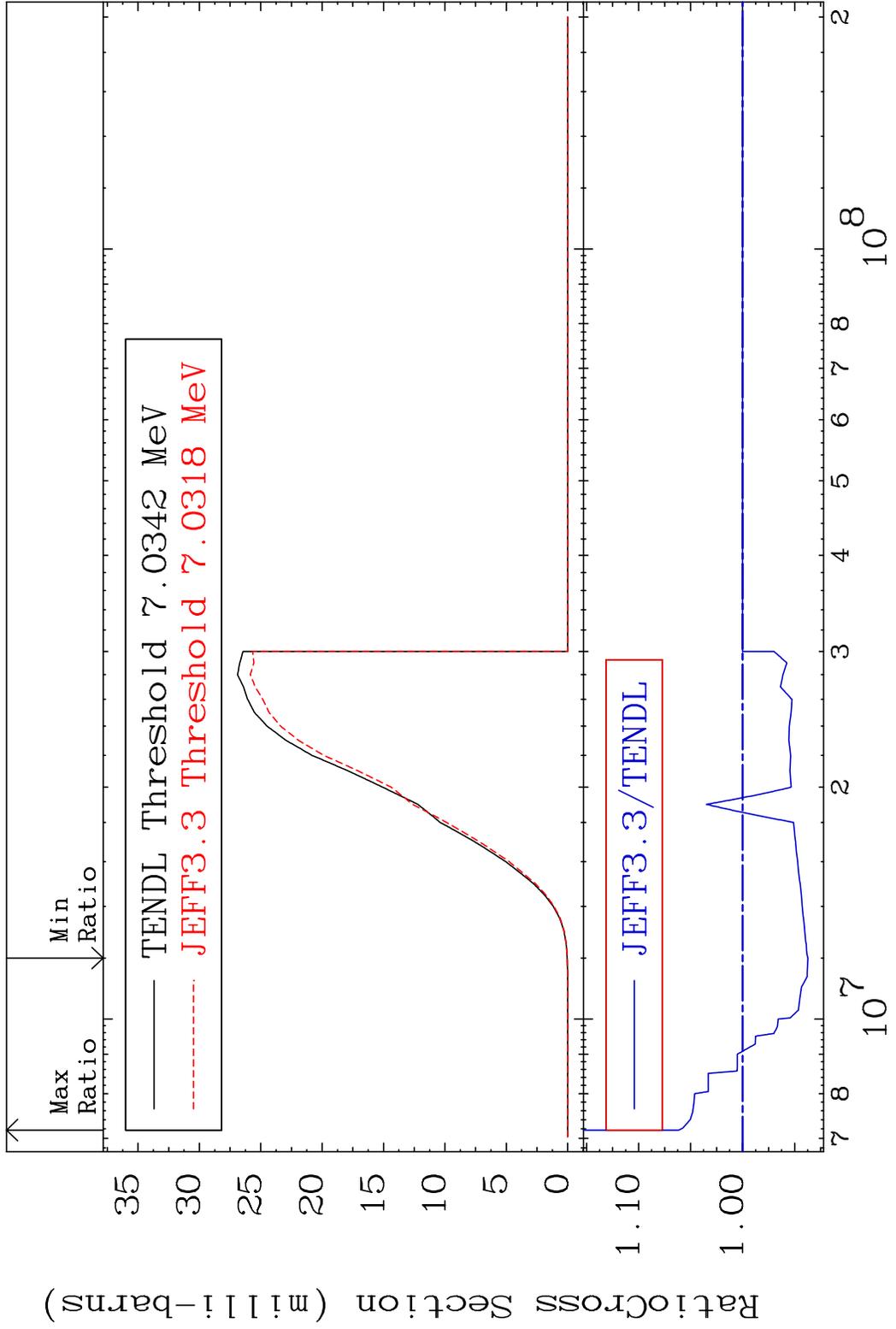


48 Incident Energy (eV) 44-Ru-100



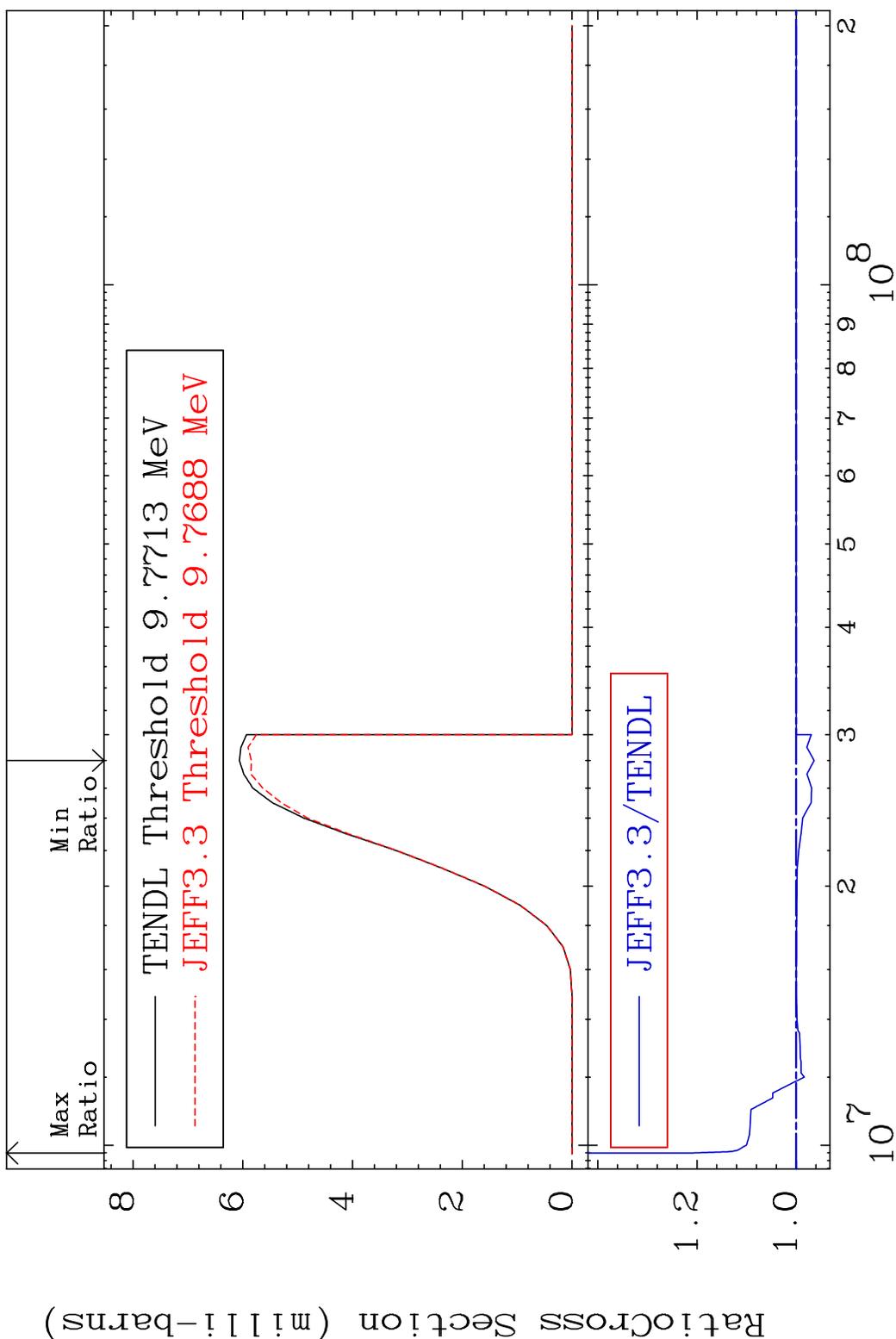


MAT 4437 (n, d) 44-Ru-100
 Cross Section -6.271 To 6.185 %



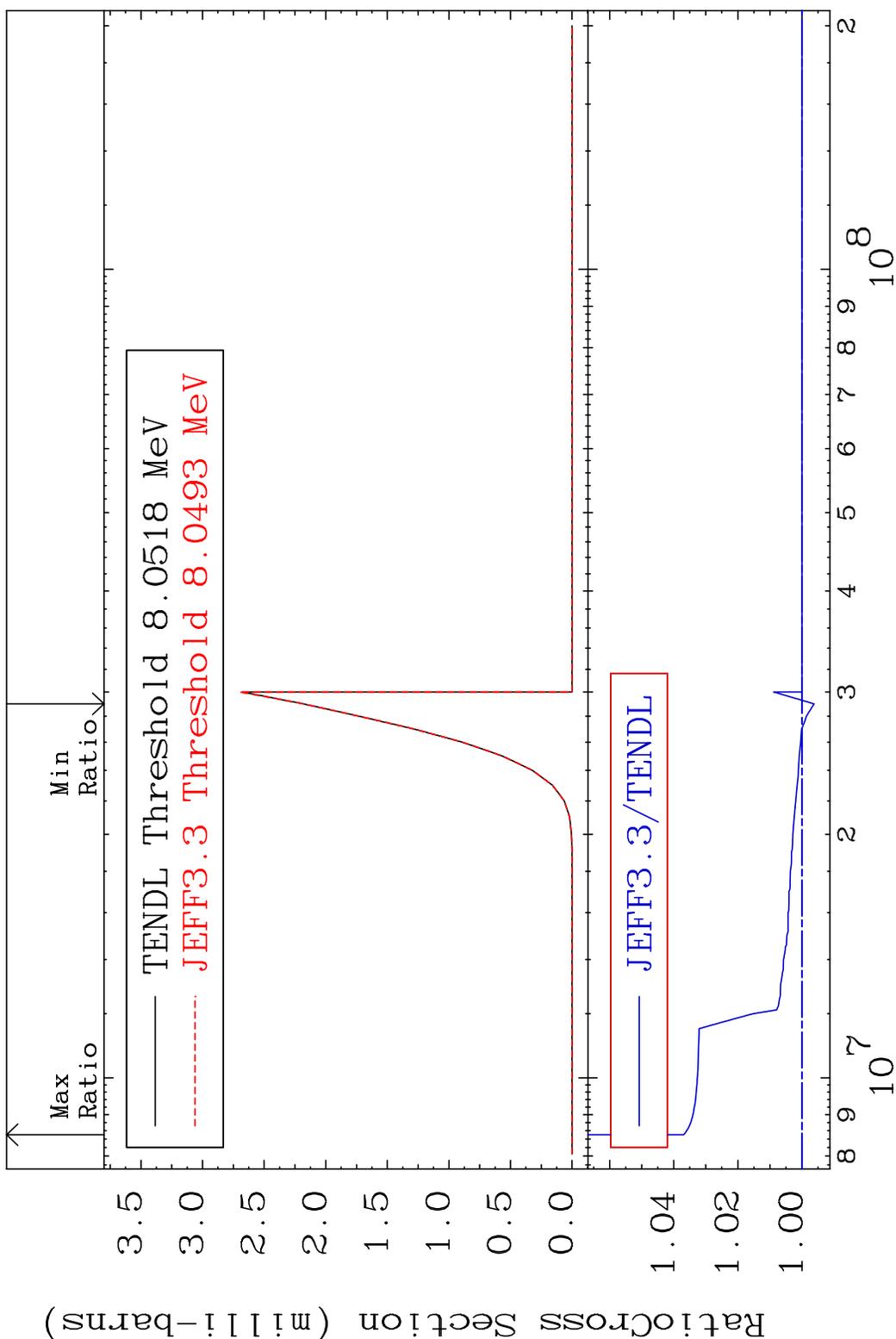
51 Incident Energy (eV) 44-Ru-100

MAT 4437 (n, t) 44-Ru-100
 Cross Section -3.603 To 22.71 %

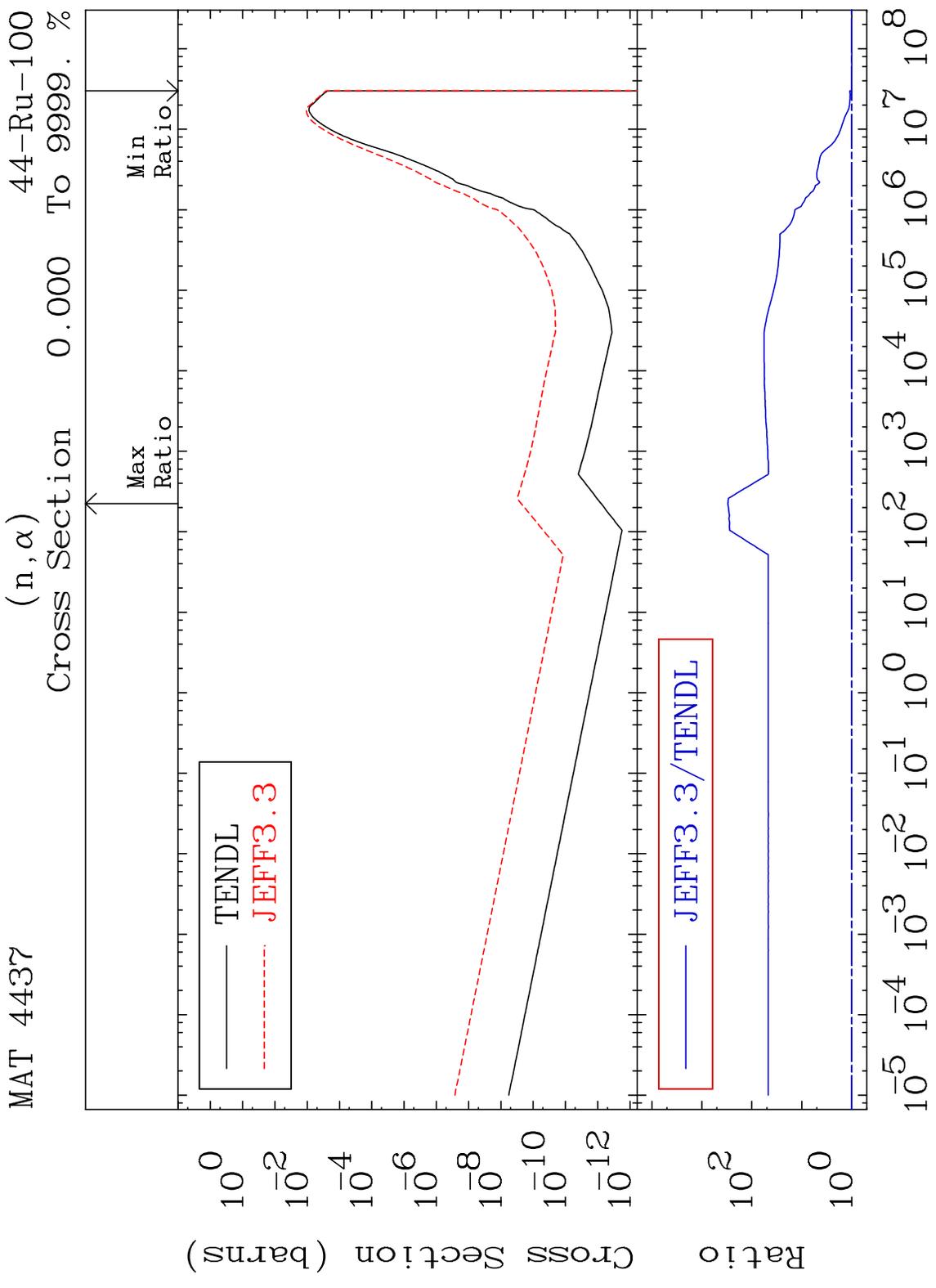


52 Incident Energy (eV) 44-Ru-100

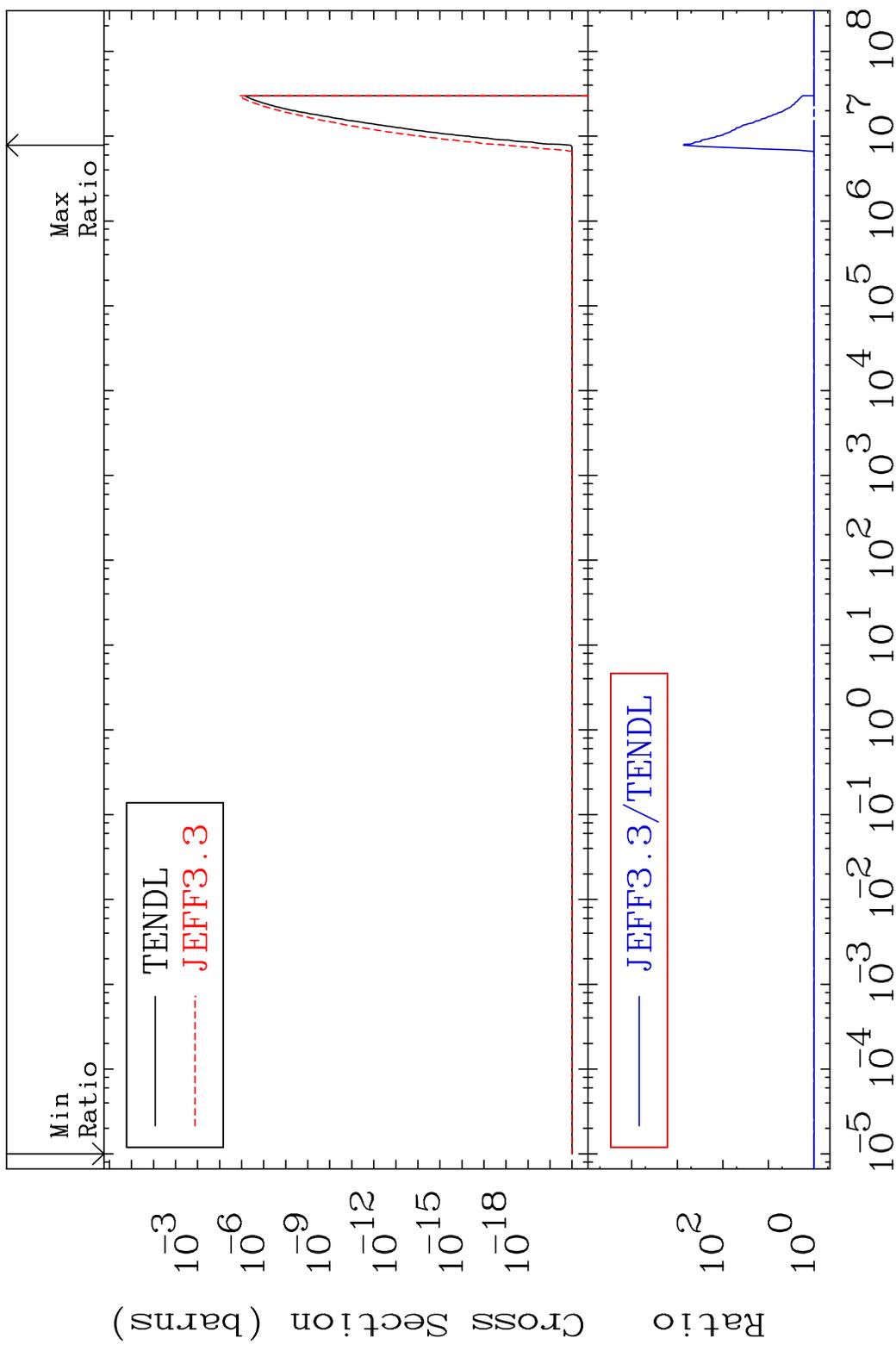
MAT 4437 (n, He-3) 44-Ru-100
 Cross Section -0.377 To 3.695 %

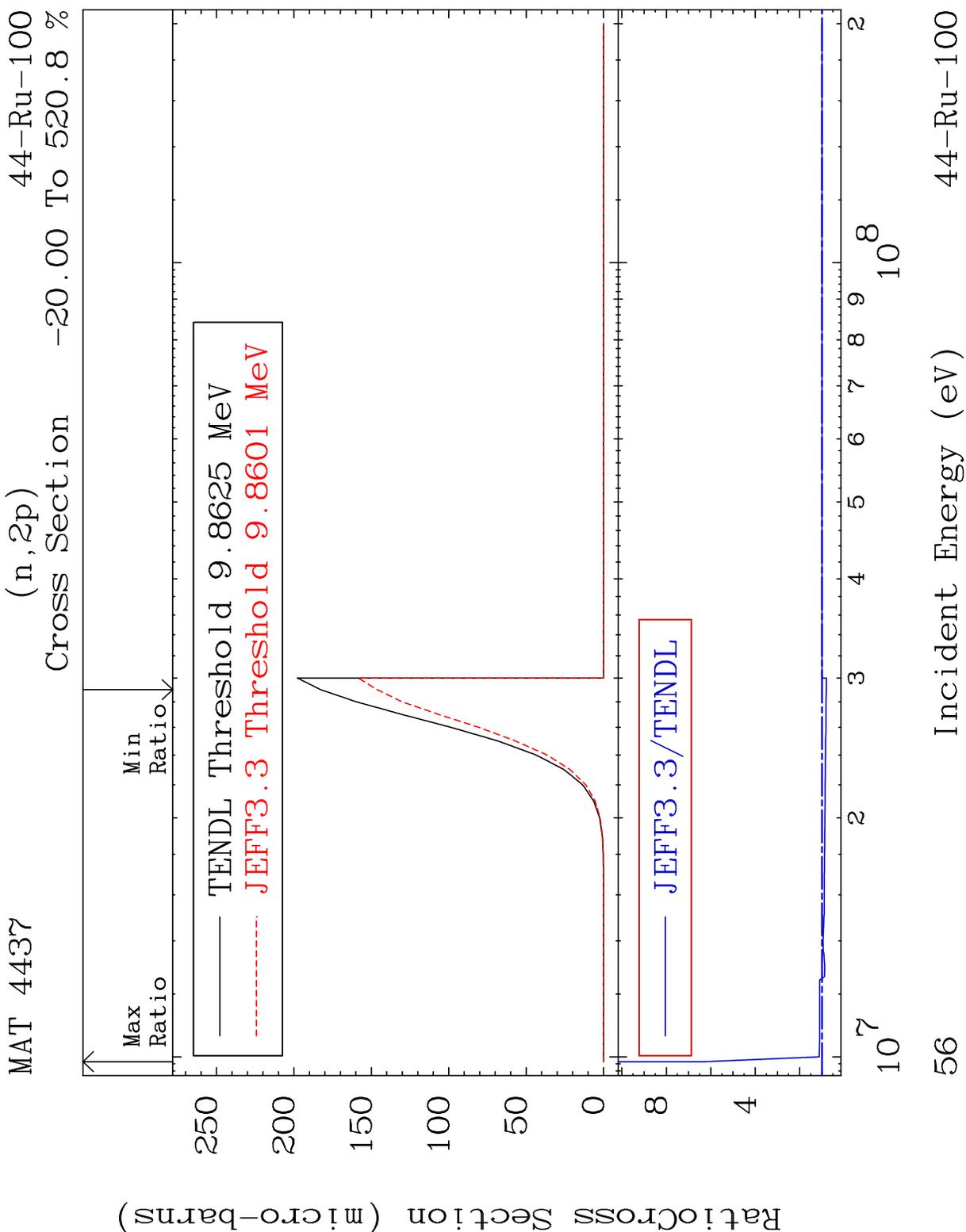


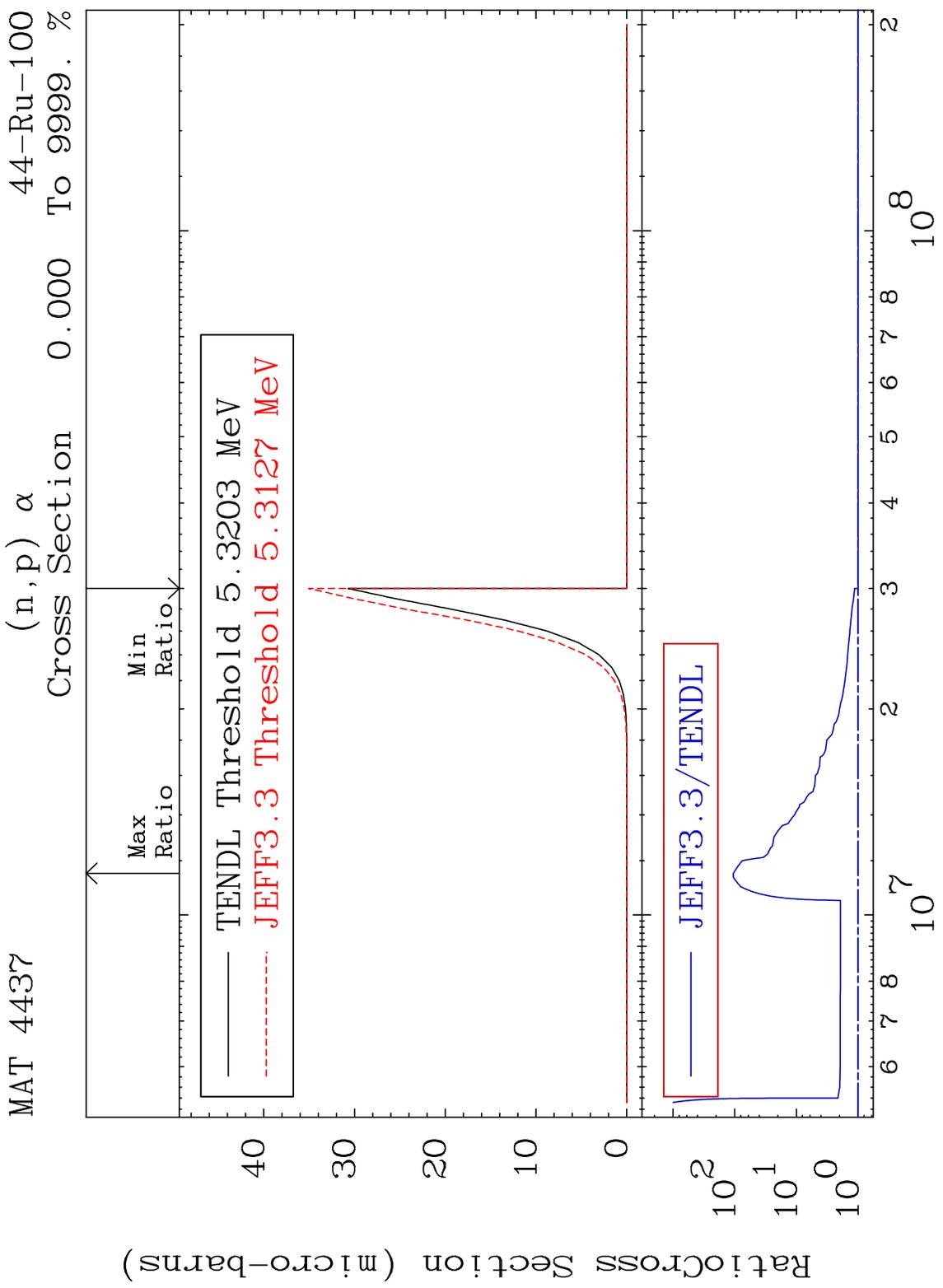
53 44-Ru-100



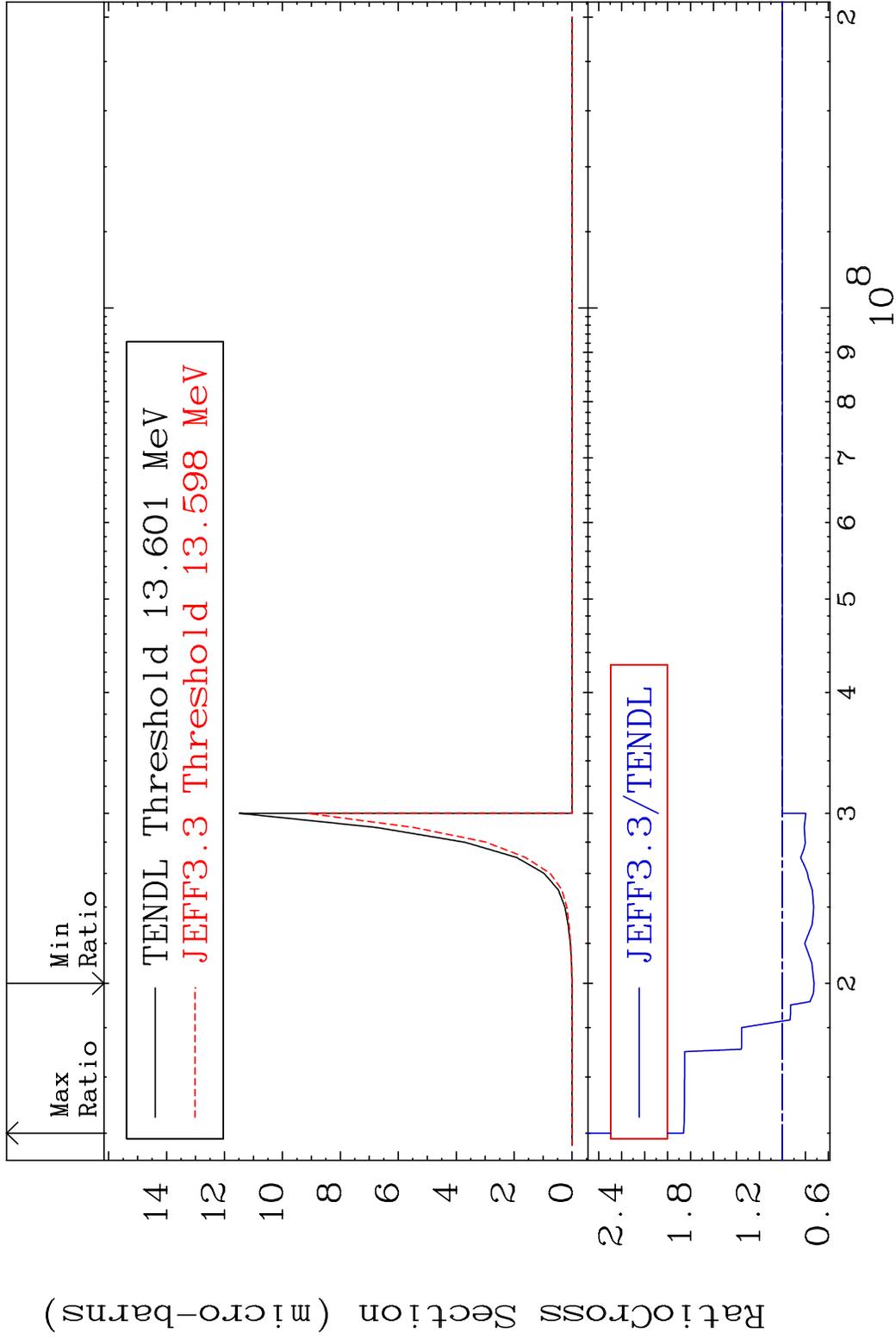
MAT 4437 (n,2α) 44-Ru-100
 Cross Section 0.000 To 9999. %





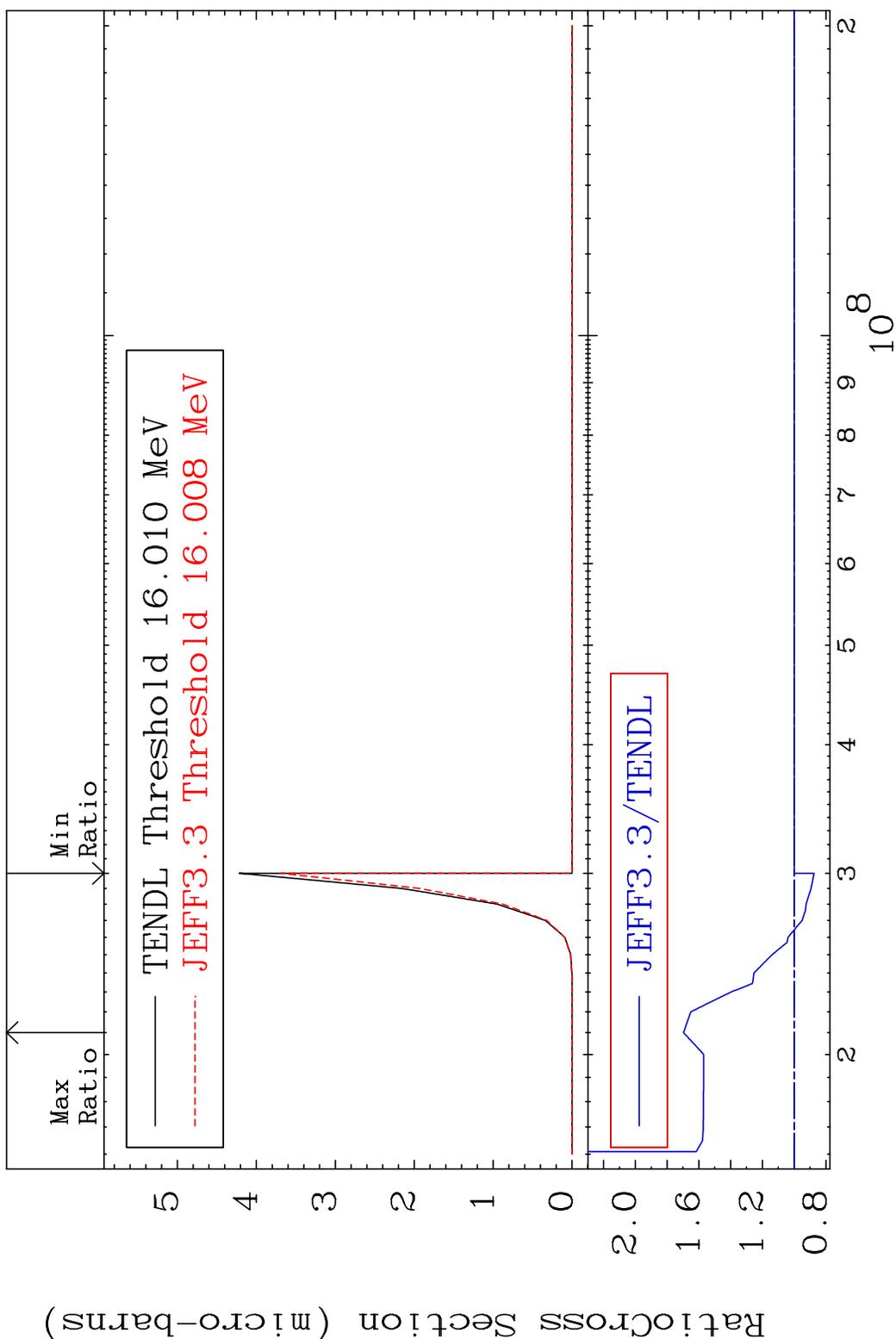


MAT 4437 (n,p) d 44-Ru-100
 Cross Section -27.54 To 86.10 %

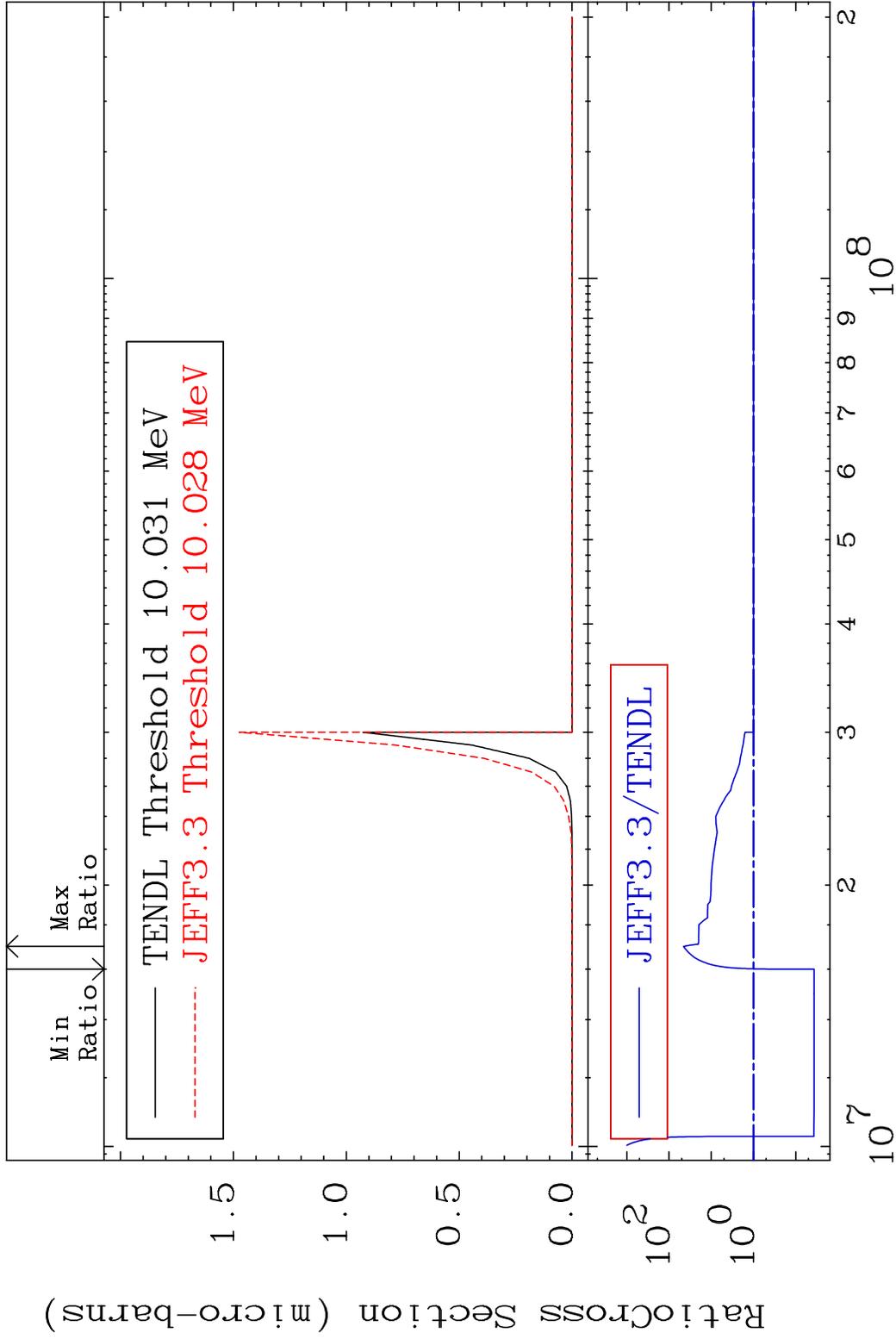


58 44-Ru-100

MAT 4437 (n,p) t 44-Ru-100
 Cross Section -12.55 To 69.66 %

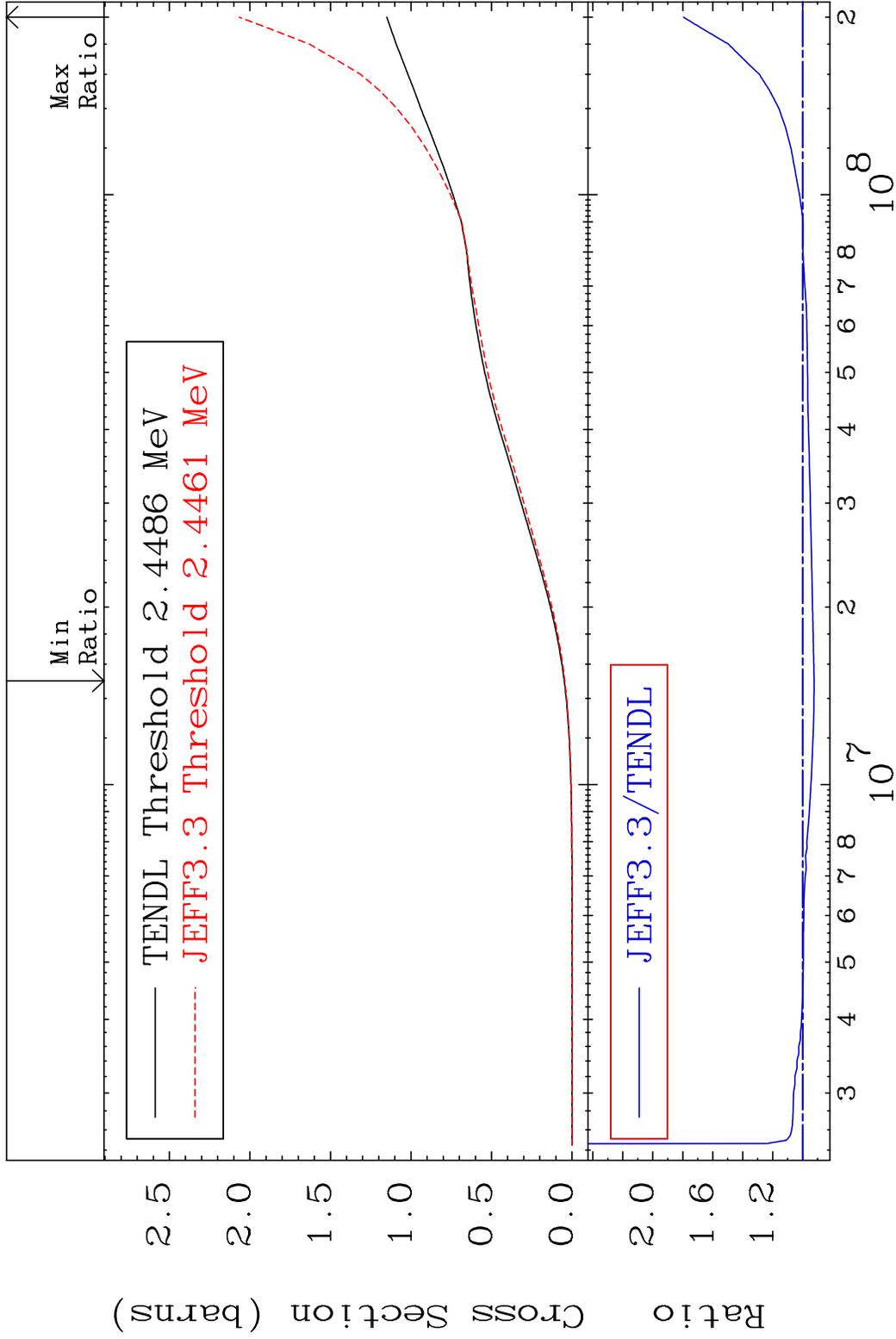


MAT 4437 (n, d) α 44-Ru-100
 Cross Section -96.32 To 4436. %



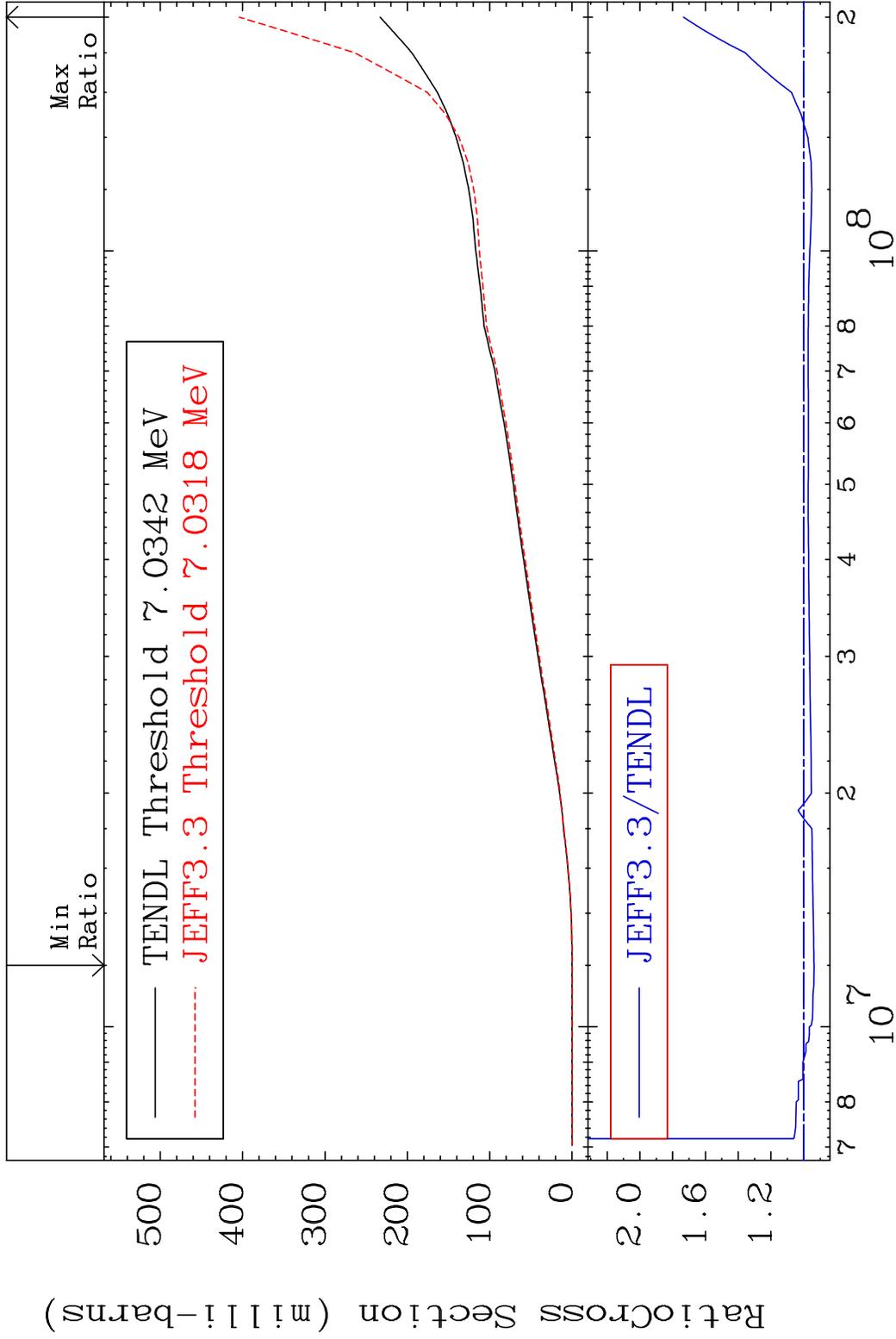
60 44-Ru-100

MAT 4437 Hydrogen Production 44-Ru-100
 Cross Section -7.672 To 79.49 %



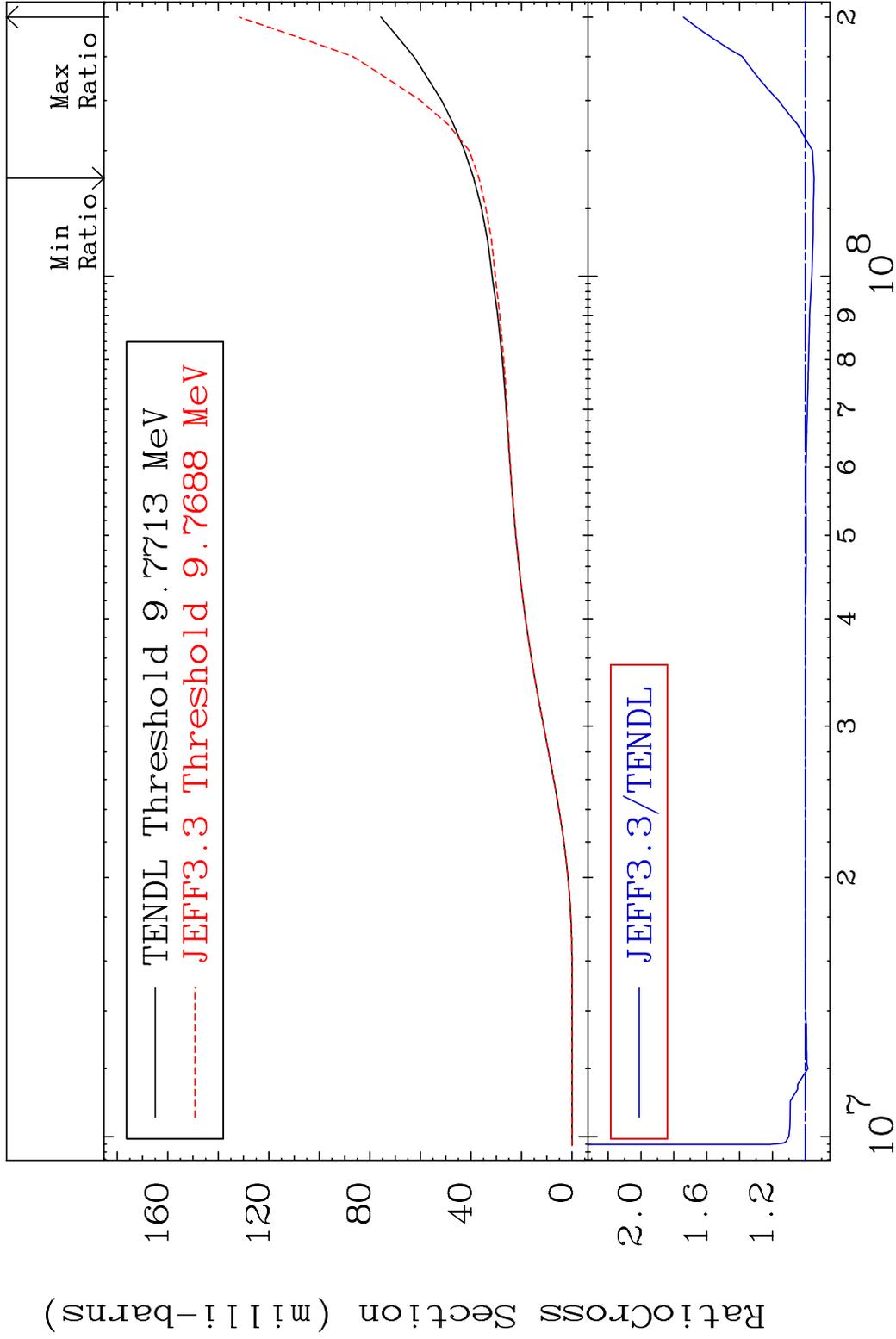
61 Incident Energy (eV) 44-Ru-100

MAT 4437 Deuterium Production 44-Ru-100
 Cross Section -6.271 To 73.36 %



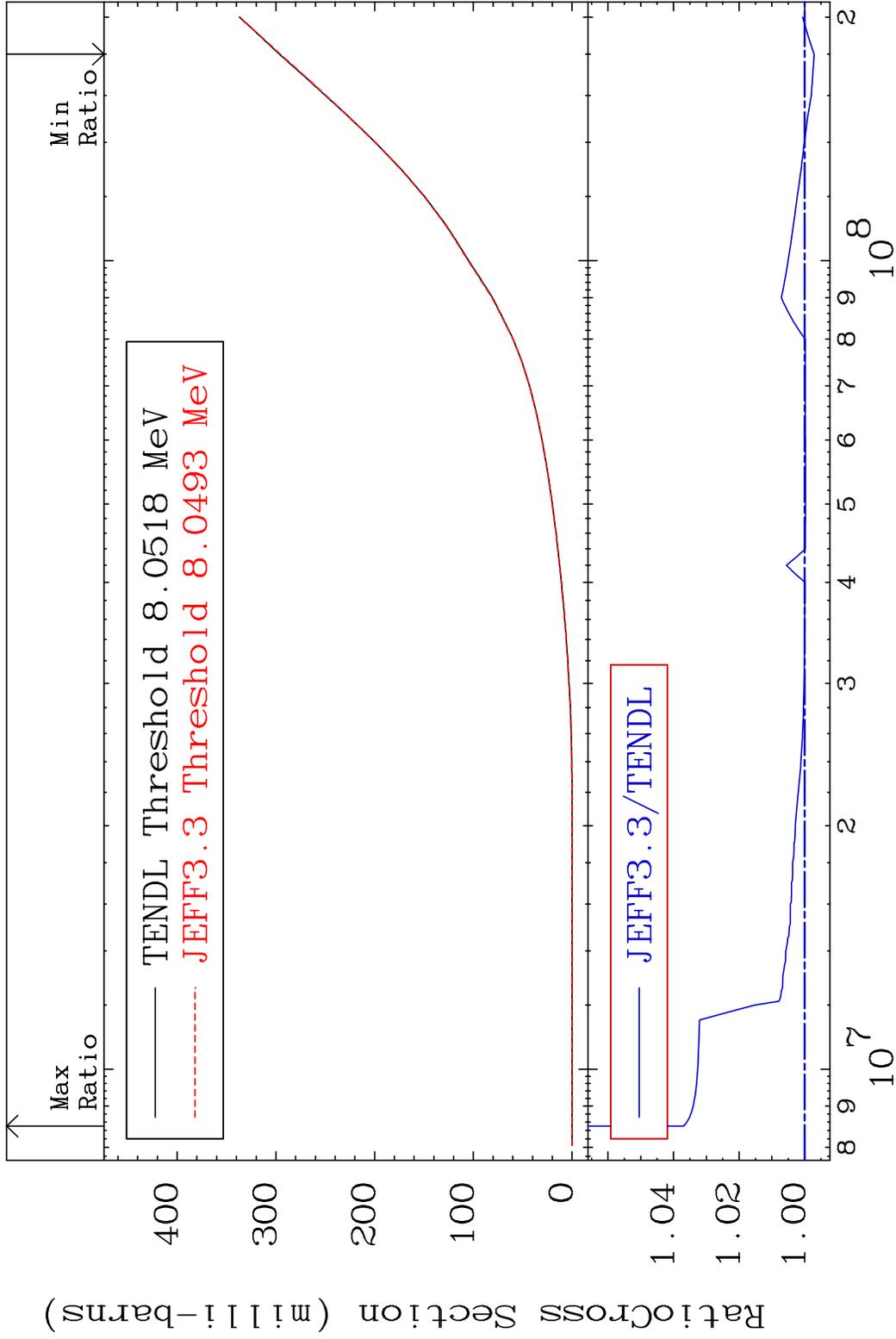
62 44-Ru-100

MAT 4437 Tritium Production 44-Ru-100
 Cross Section -5.341 To 74.10 %



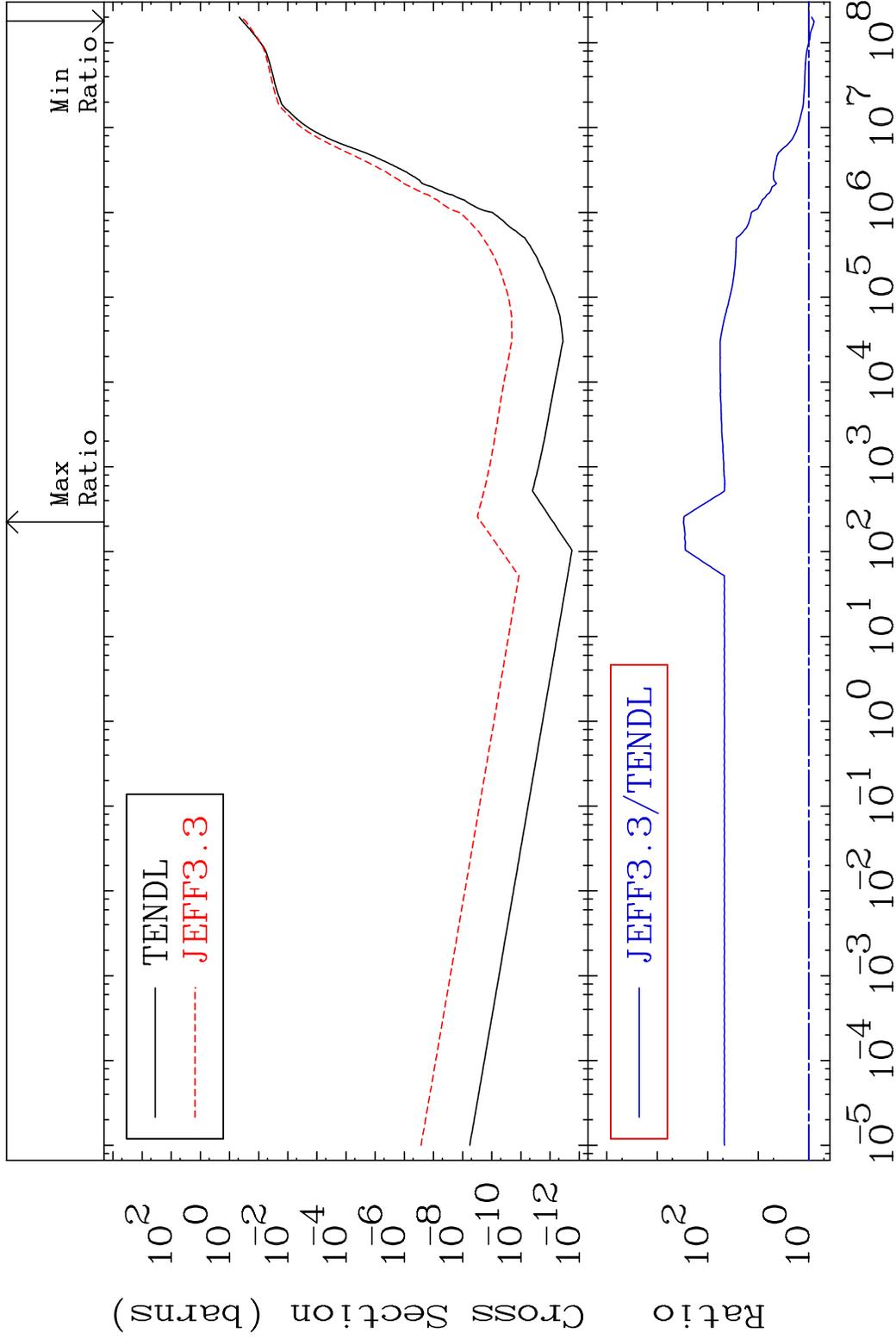
63 Incident Energy (eV) 44-Ru-100

MAT 4437 He-3 Production 44-Ru-100
 Cross Section -0.286 To 3.695 %



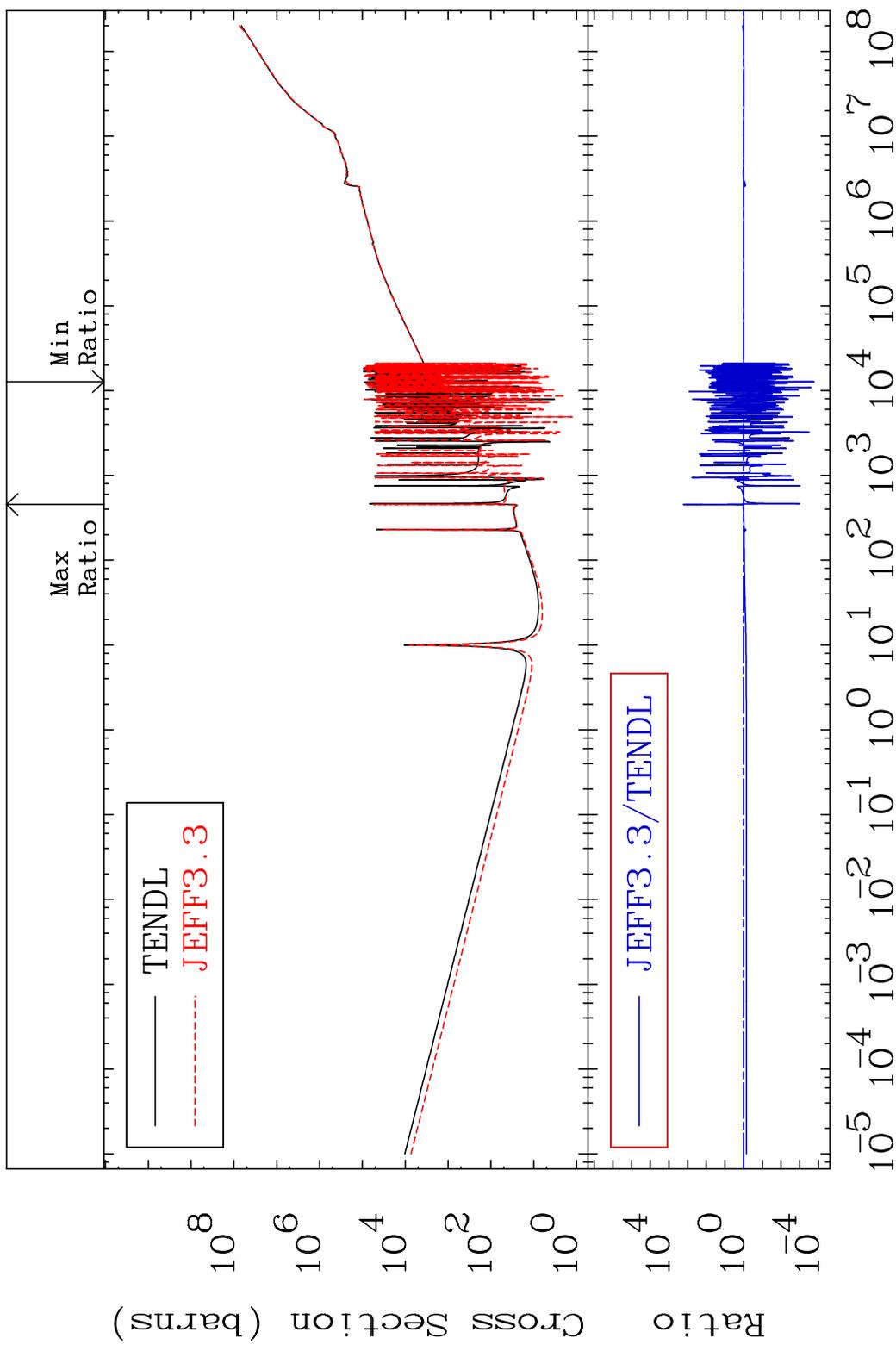
64 Incident Energy (eV) 44-Ru-100

MAT 4437 He-4 Production 44-Ru-100
 Cross Section -21.56 To 9999. %



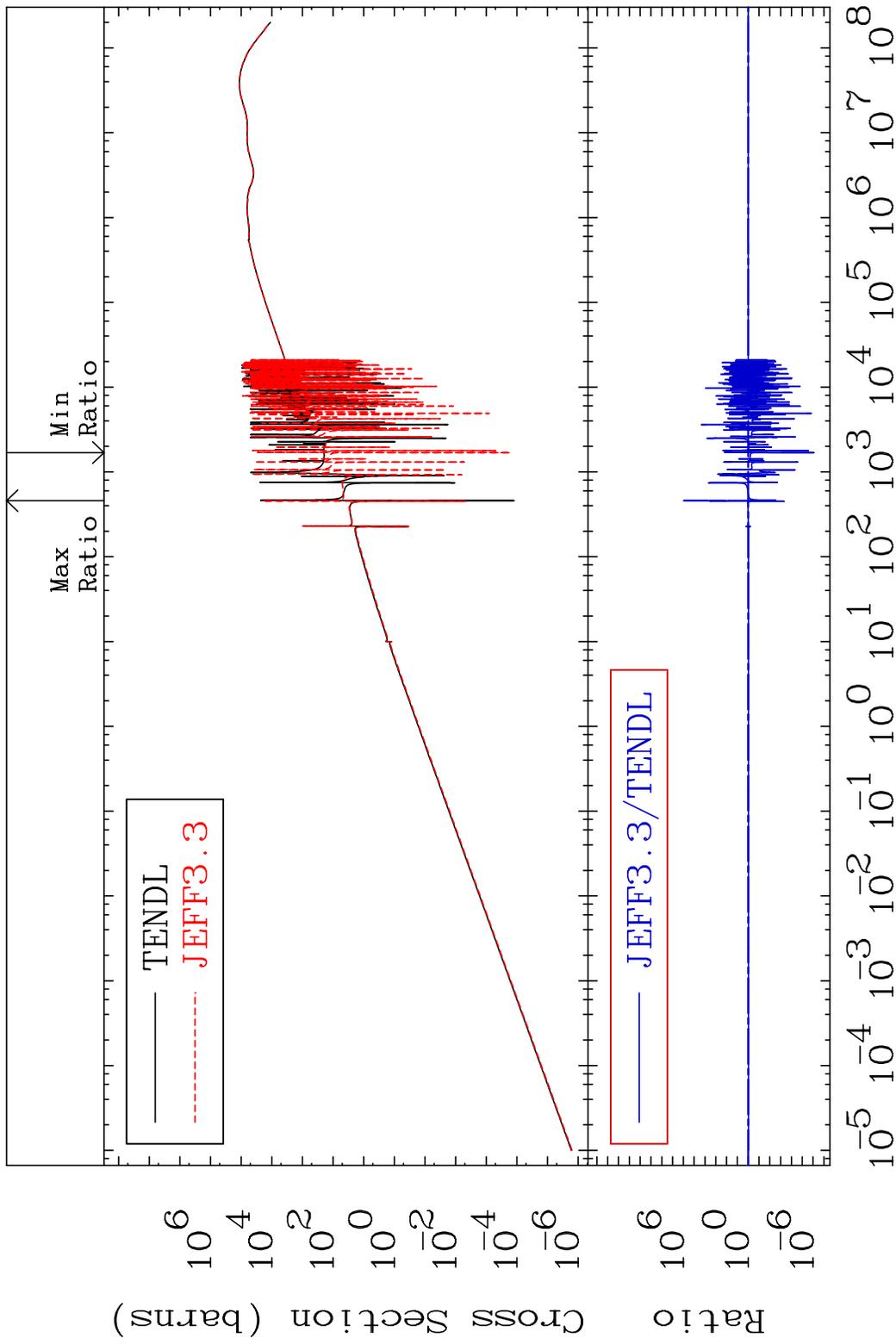
65 Incident Energy (eV) 44-Ru-100

MAT 4437 Kerma total (eV-barns) 44-Ru-100
 Cross Section -99.98 To 9999. %



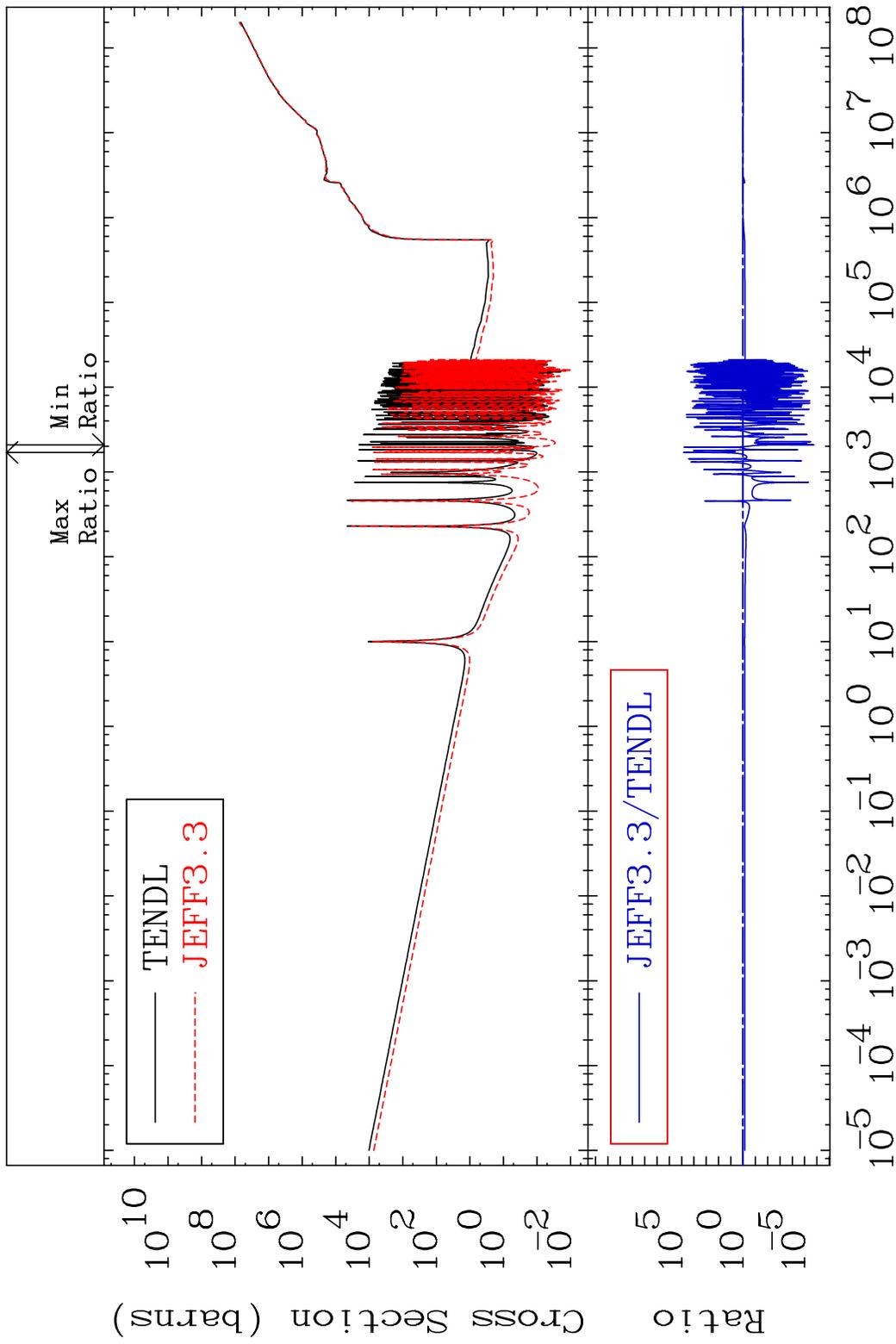
66 Incident Energy (eV) 44-Ru-100

MAT 4437 Kerma elastic 44-Ru-100
 Cross Section -100.0 To 9999. %



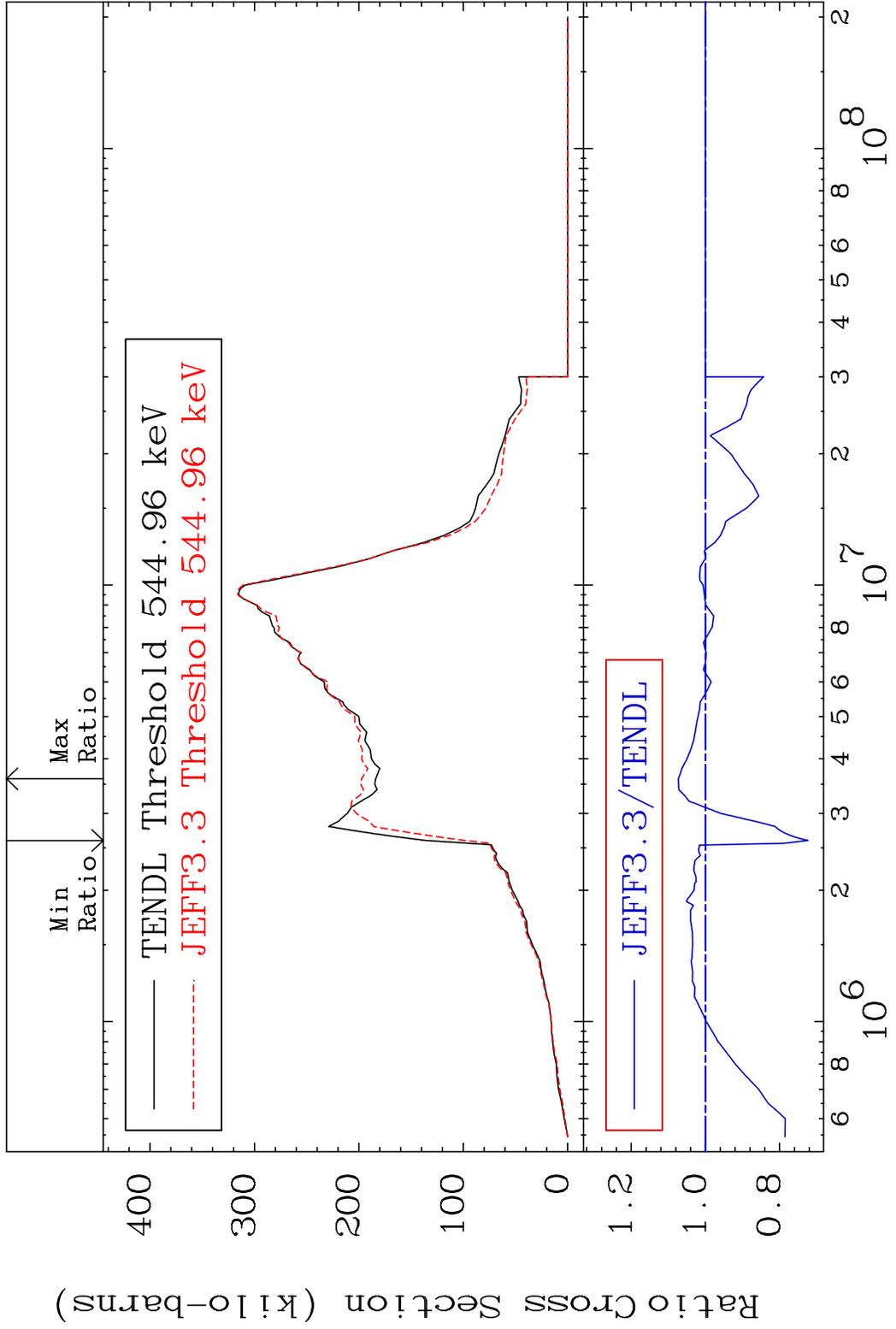
67 Incident Energy (eV) 44-Ru-100

MAT 4437 Kerma non-elastic (all but mt2) 44-Ru-100
 Cross Section -100.0 To 9999. %



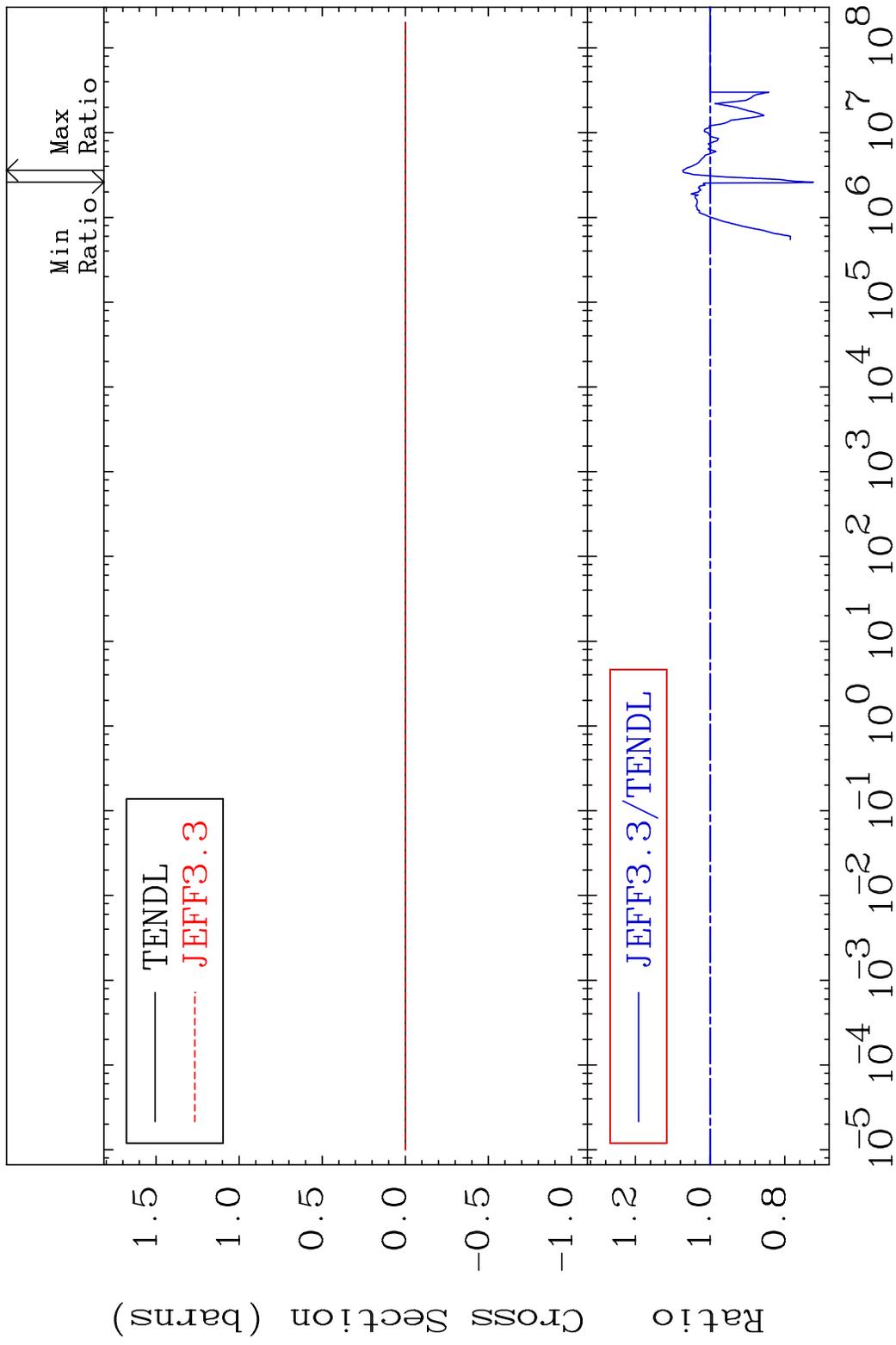
68 Incident Energy (eV) 44-Ru-100

MAT 4437 Kerma inelastic (mt51-91) 44-Ru-100
 Cross Section -27.61 To 7.314 %



69 44-Ru-100

MAT 4437 Kerma fission (mt18 or mt19-20-21-38) 44-Ru-100
 Cross Section -27.61 To 7.314 %

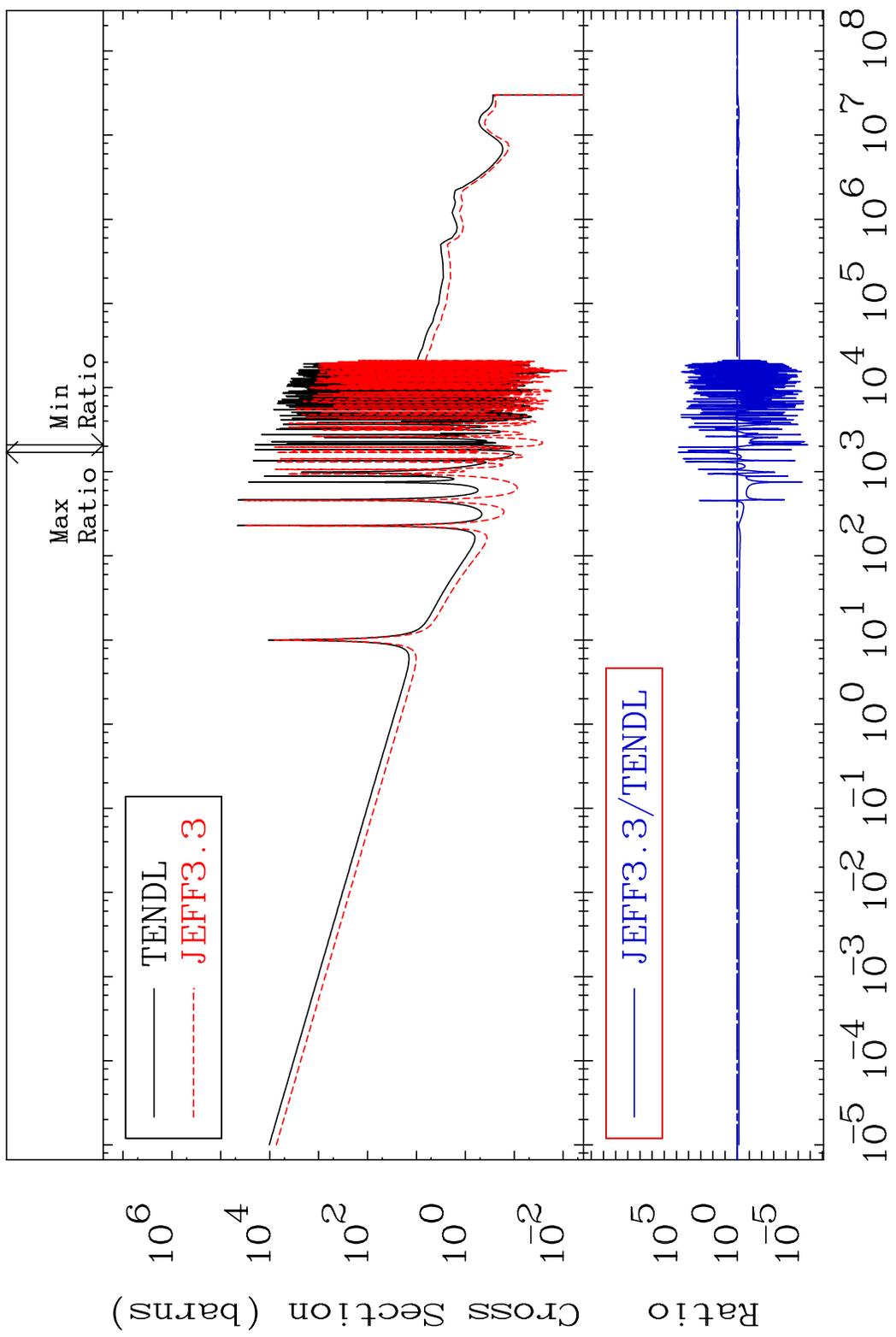


70

Incident Energy (eV)

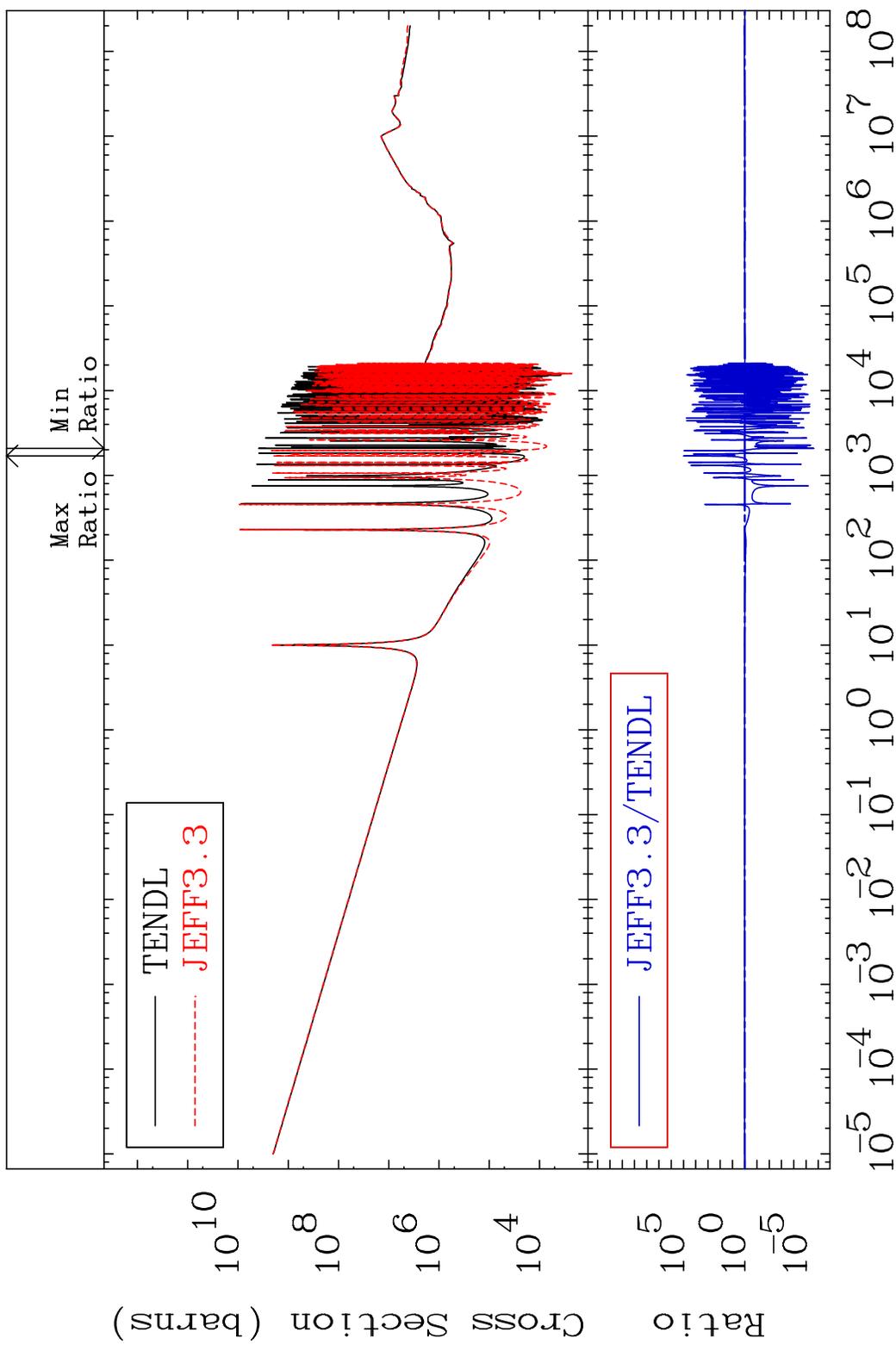
44-Ru-100

MAT 4437 Kerma capture (mt102) 44-Ru-100
 Cross Section -100.0 To 9999. %



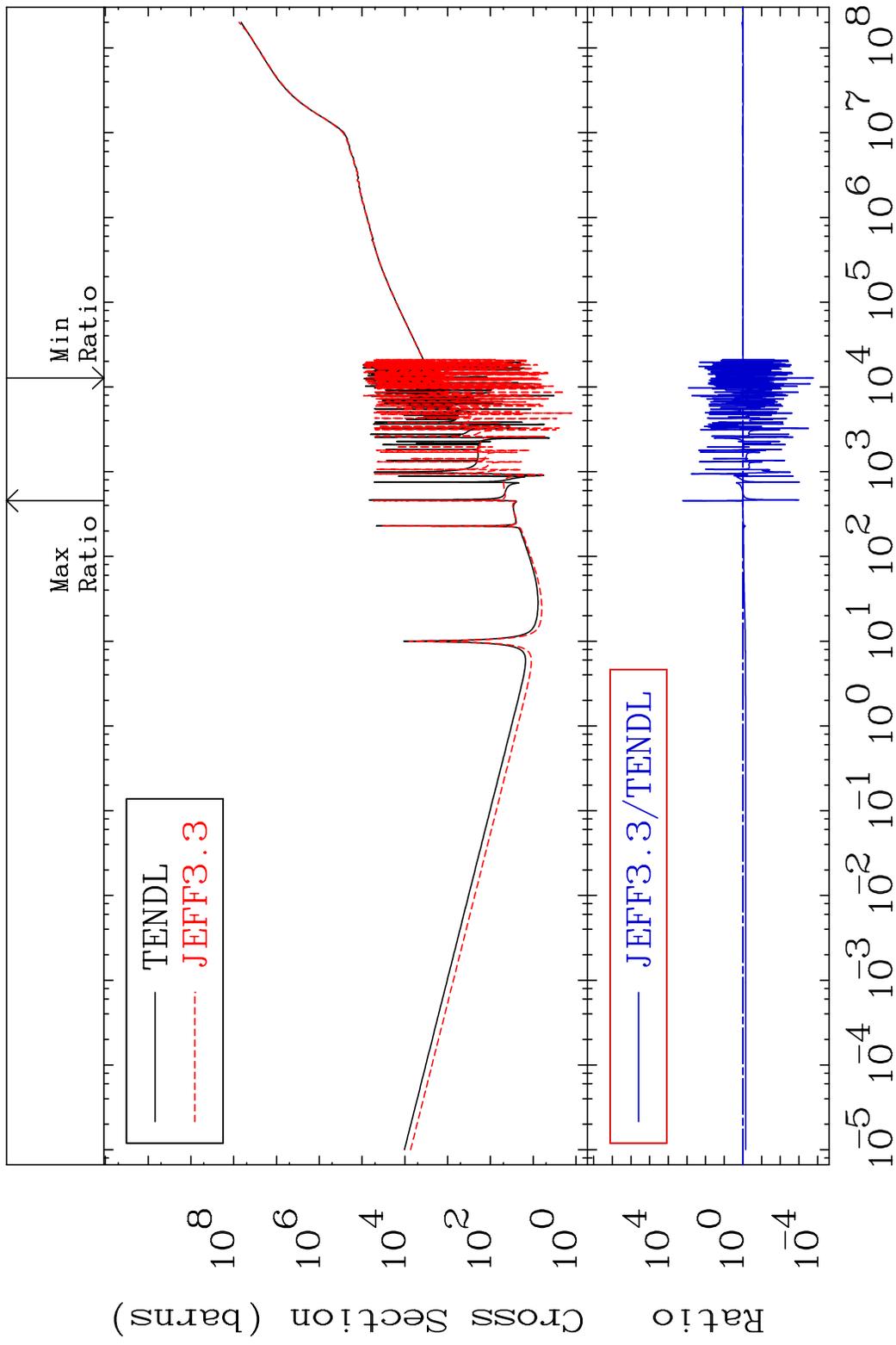
71 Incident Energy (eV) 44-Ru-100

MAT 4437 Total photon (eV-barns) 44-Ru-100
 Cross Section -100.0 To 9999. %



72 Incident Energy (eV) 44-Ru-100

MAT 4437 Total kinematic kerma (high limit) 44-Ru-100
Cross Section -99.98 To 9999. %

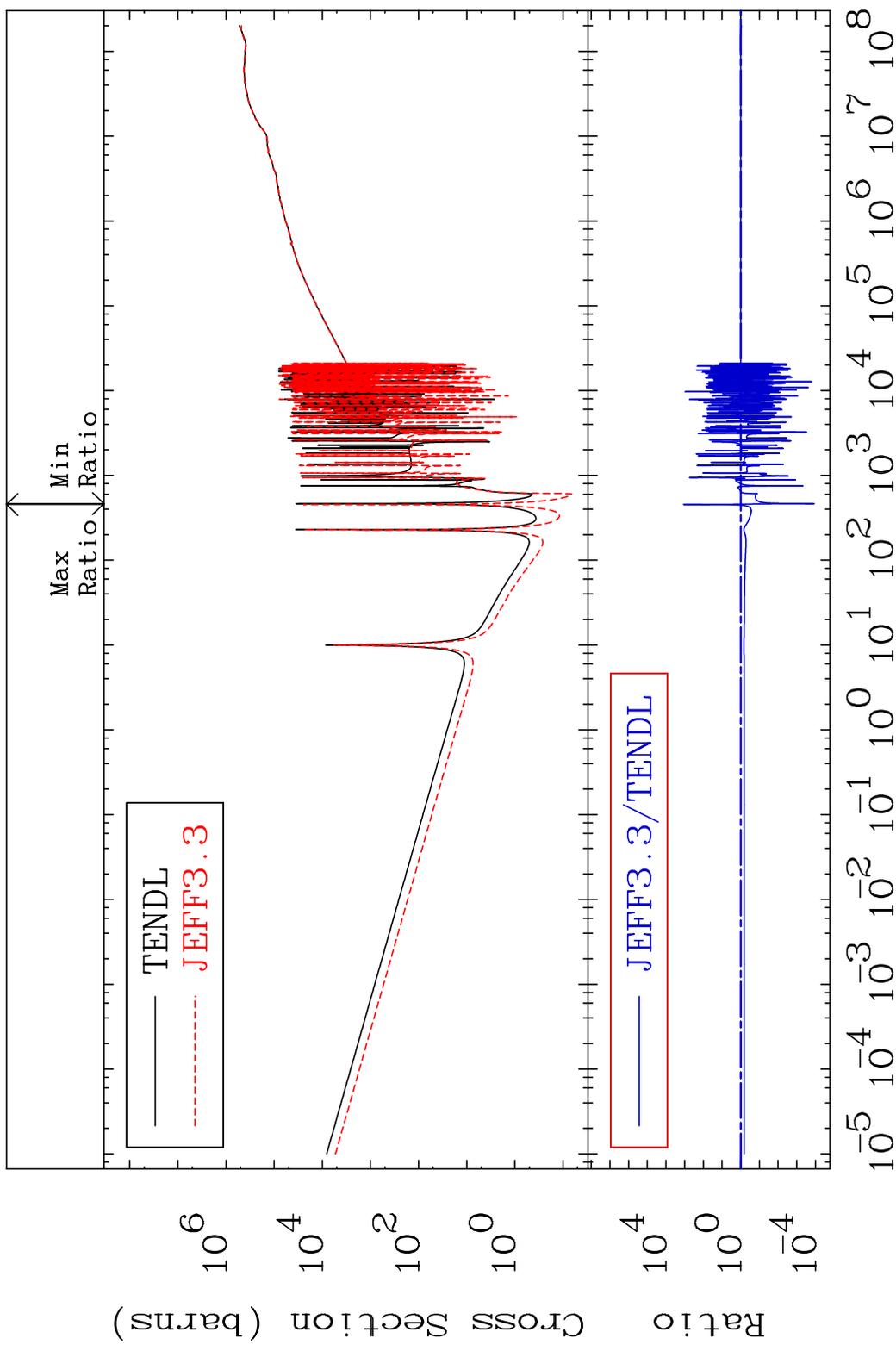


73

Incident Energy (eV)

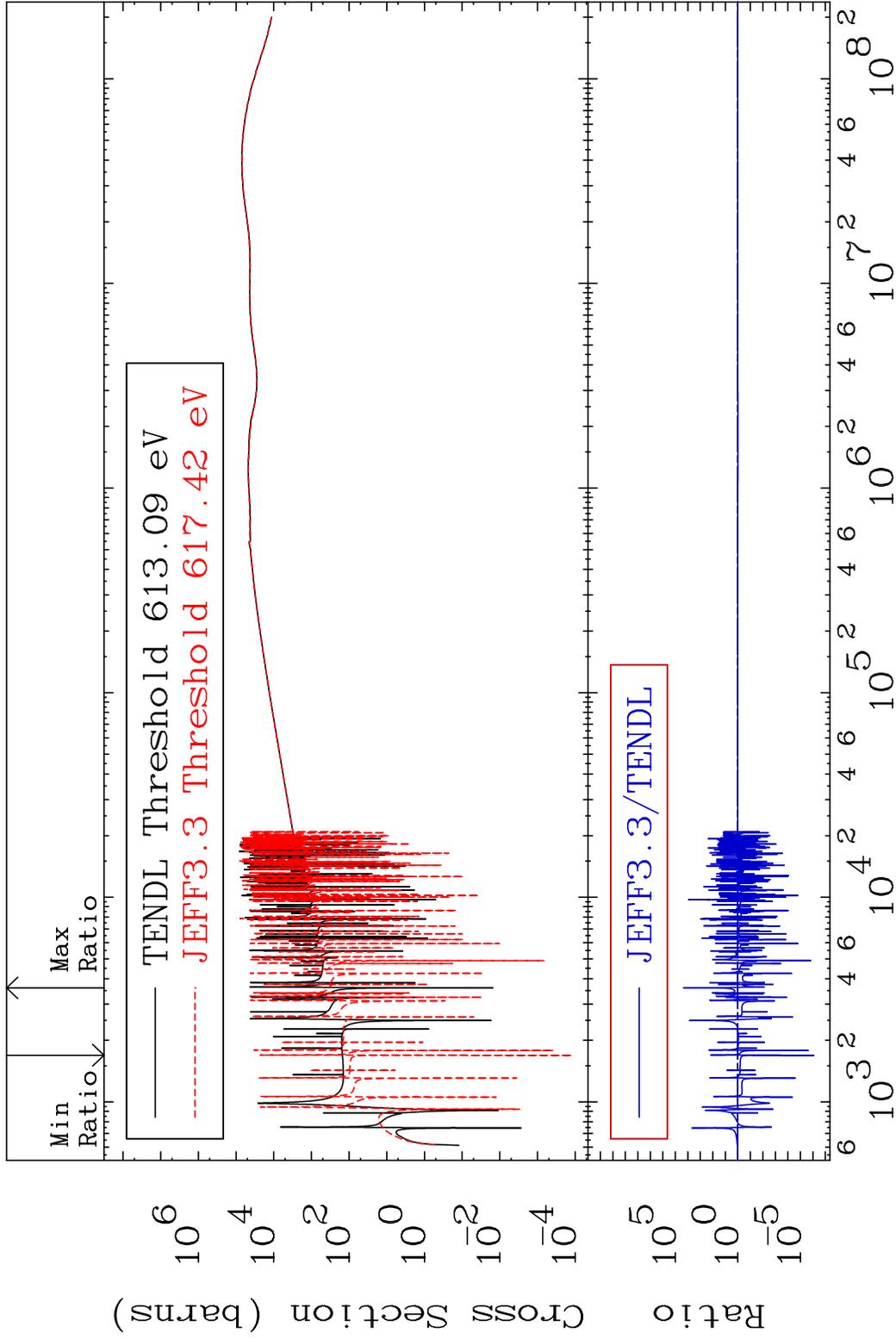
44-Ru-100

MAT 4437 Dpa total (eV-barns) 44-Ru-100
 Cross Section -99.99 To 9999. %



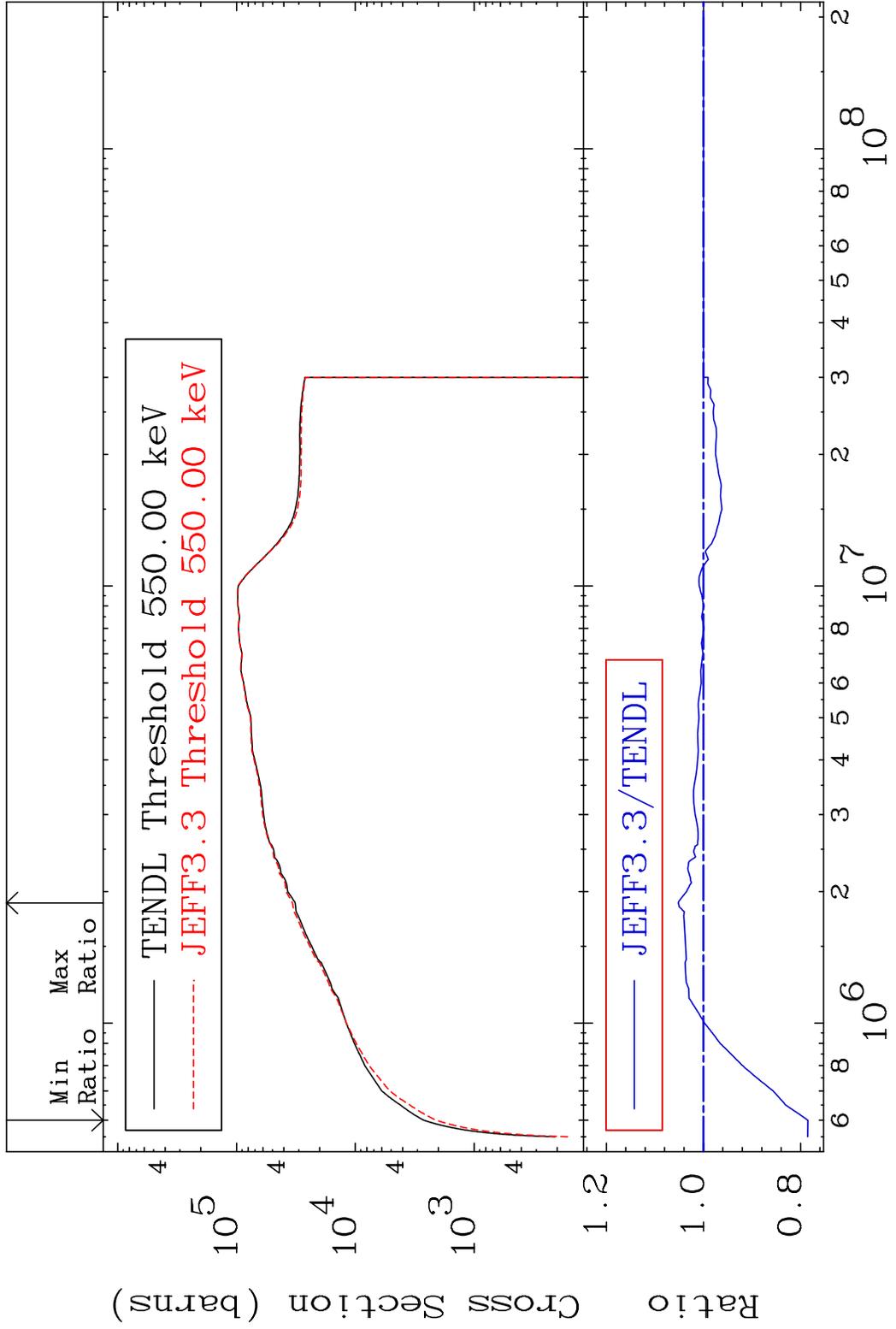
74 Incident Energy (eV) 44-Ru-100

MAT 4437 Dpa elastic (mt2) 44-Ru-100
 Cross Section -100.0 To 9999. %



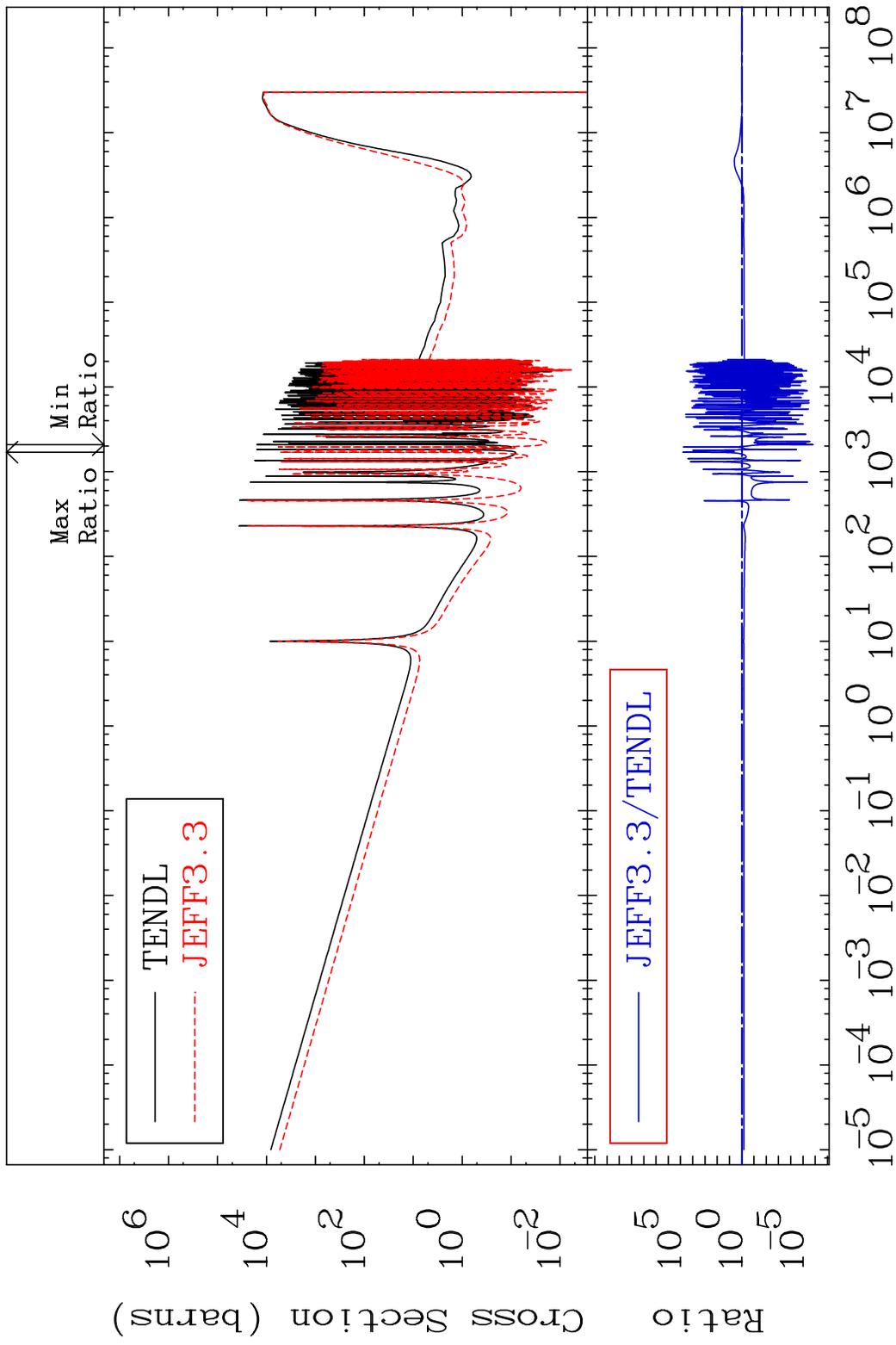
75 Incident Energy (eV) 44-Ru-100

MAT 4437 Dpa inelastic (mt51-91) 44-Ru-100
 Cross Section -21.50 To 5.177 %

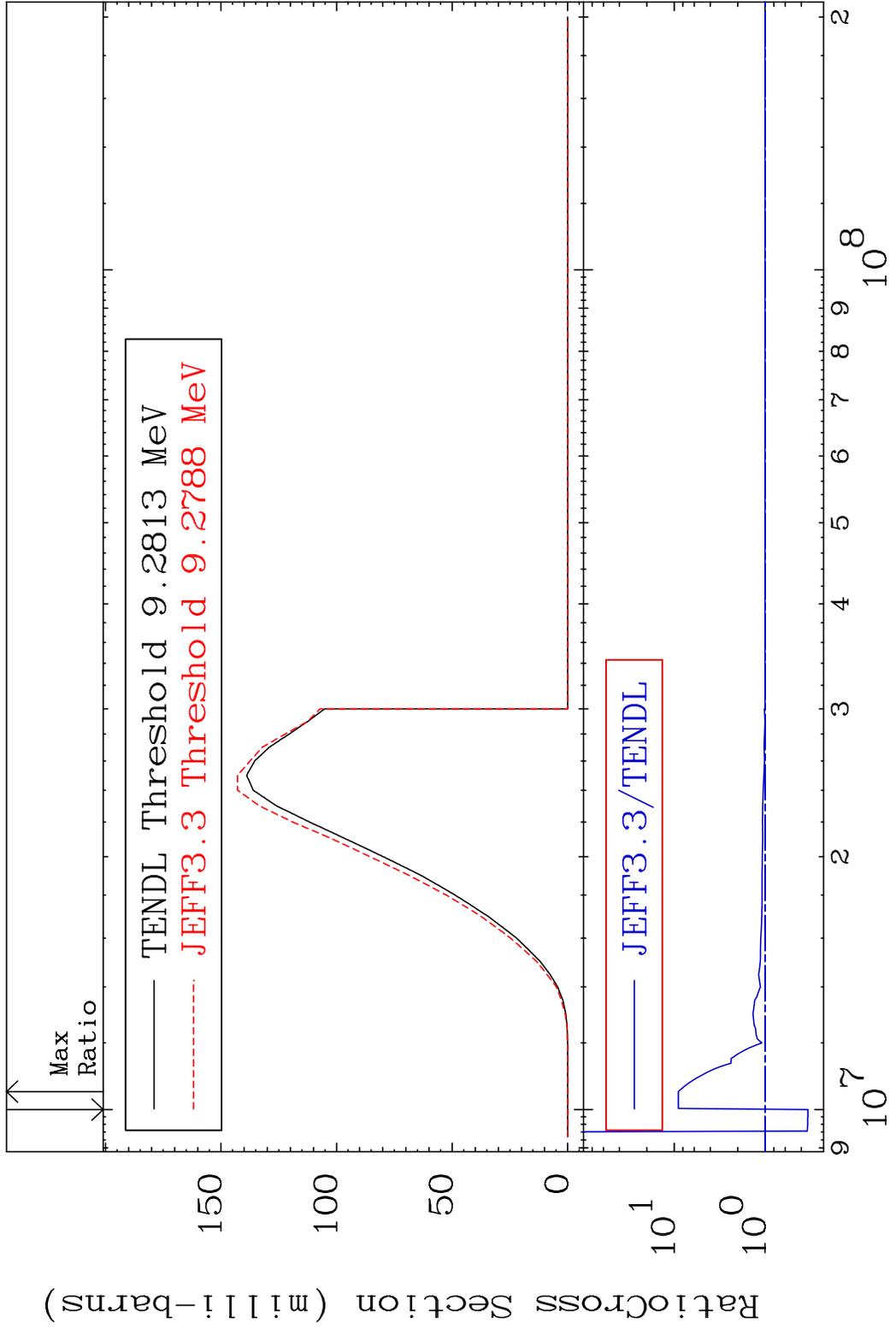


76 Incident Energy (eV) 44-Ru-100

MAT 4437 Dpa disappearance (mt102 -120) 44-Ru-100
 Cross Section -100.0 To 9999. %

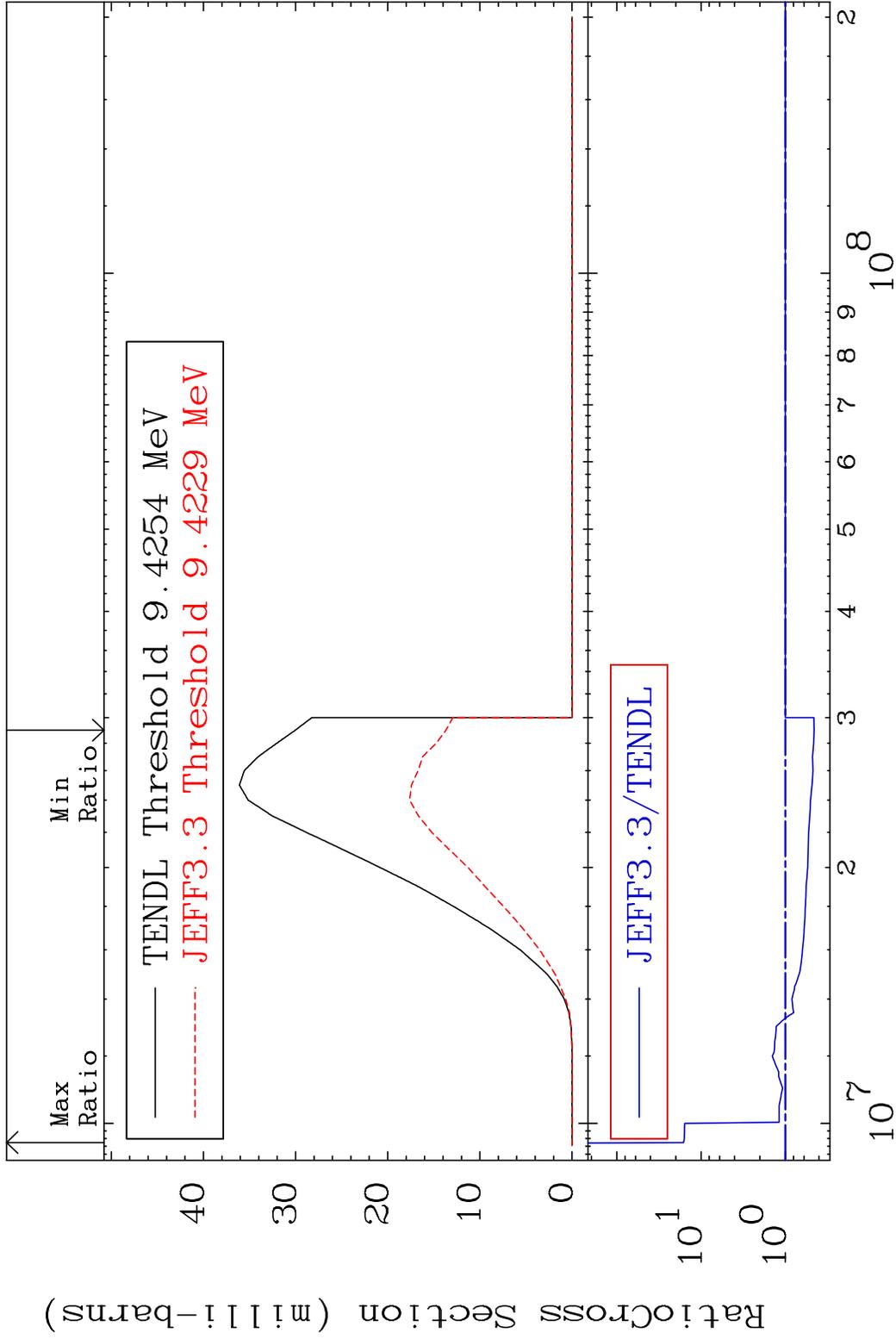


MAT 4437 (n, n') p:43-Tc-99g 44-Ru-100
 Radionuclide Production Cross Section 800.0 %



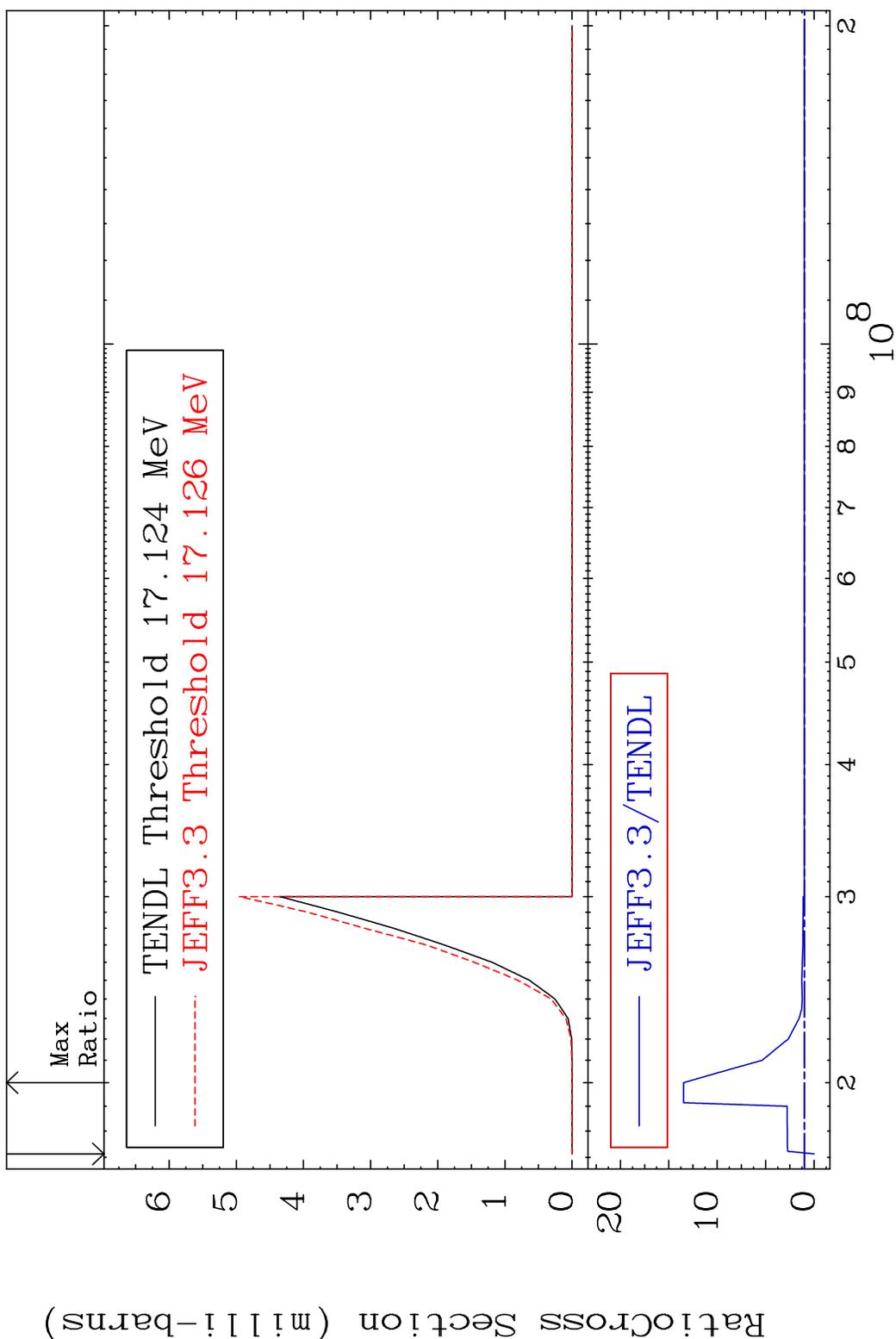
80 Incident Energy (eV) 44-Ru-100

MAT 4437 (n, n') p:43-Tc-99m2 44-Ru-100
 Radionuclide Production Cross Section 58.43 d to 1516. %



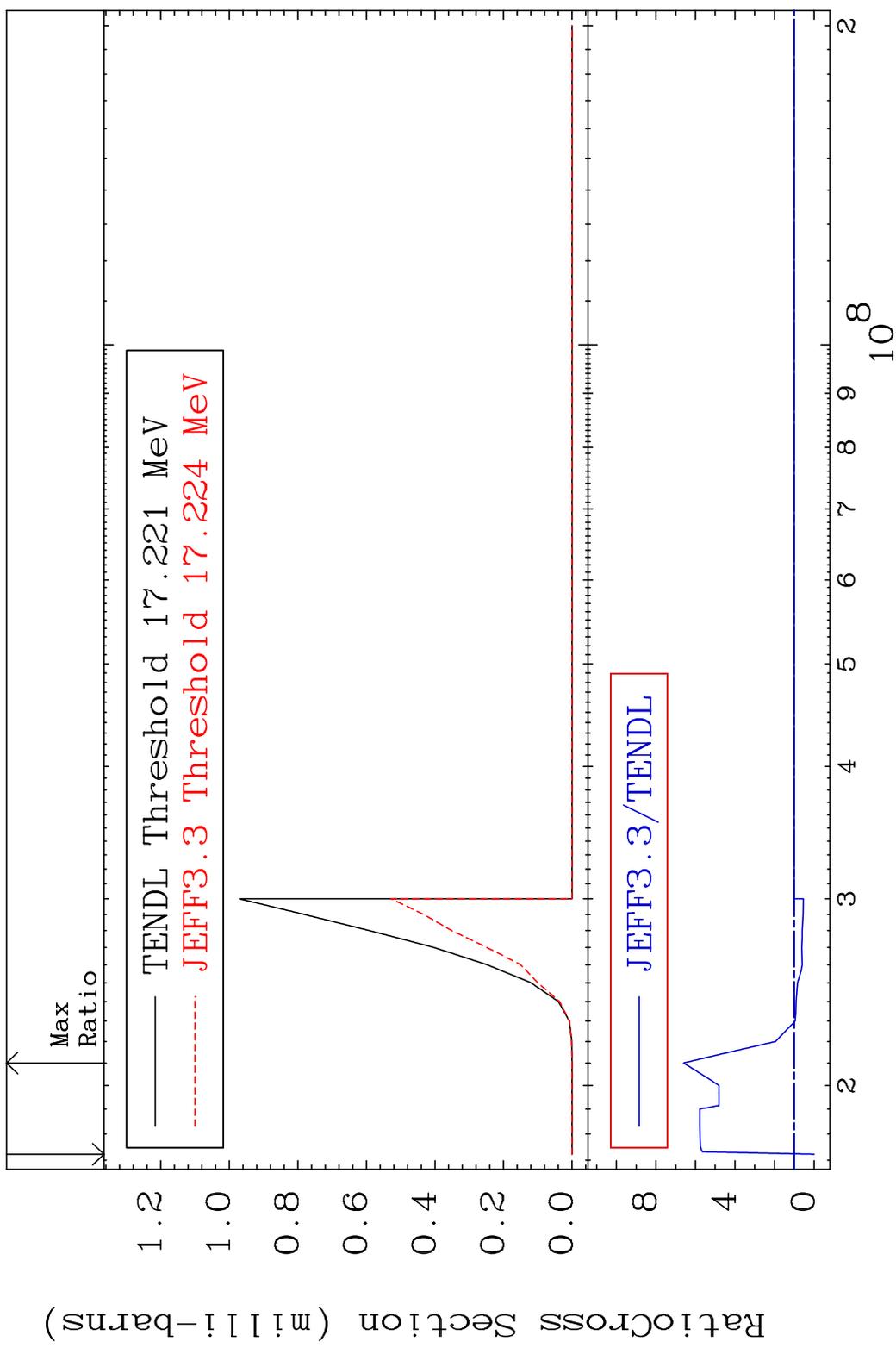
81 Incident Energy (eV) 44-Ru-100

MAT 4437 (n, n') t:43-Tc-97g 44-Ru-100
 Radionuclide Production Cross Section 180000 dpo 1248. %

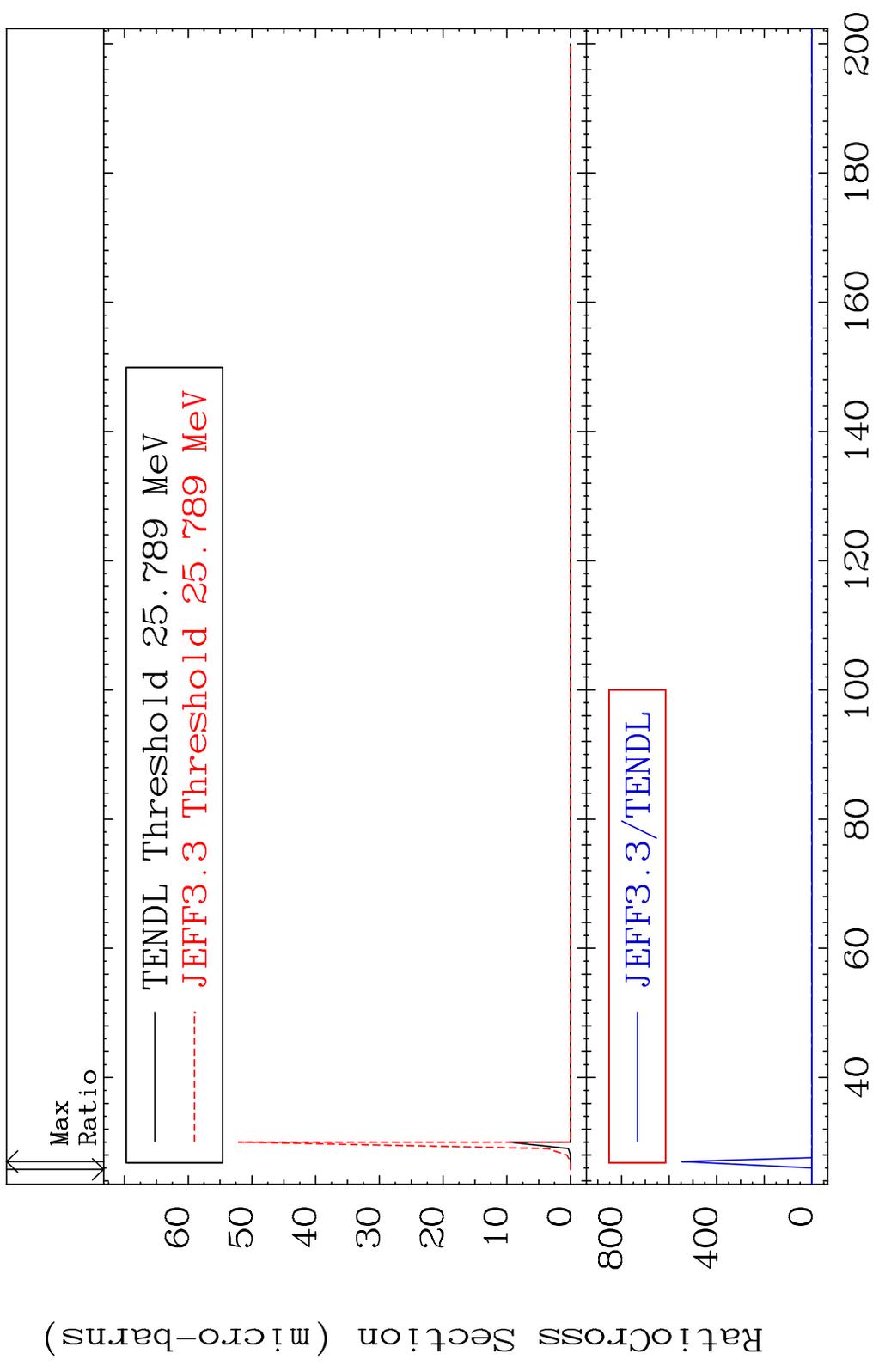


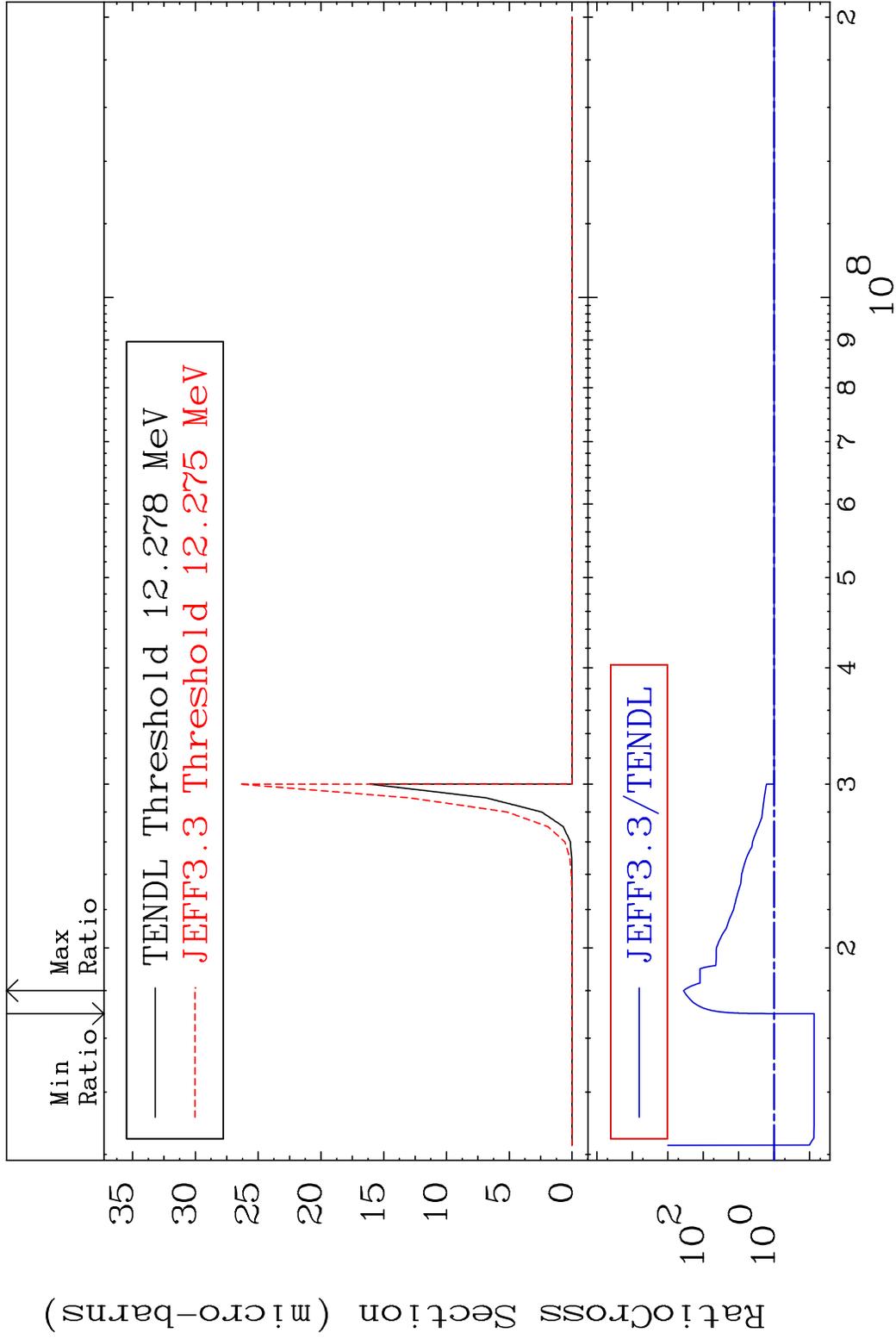
82 Incident Energy (eV) 44-Ru-100

MAT 4437 (n, n') t:43-Tc-97m1 44-Ru-100
 Radionuclide Production Cross Section 180000 dth 560.4 %

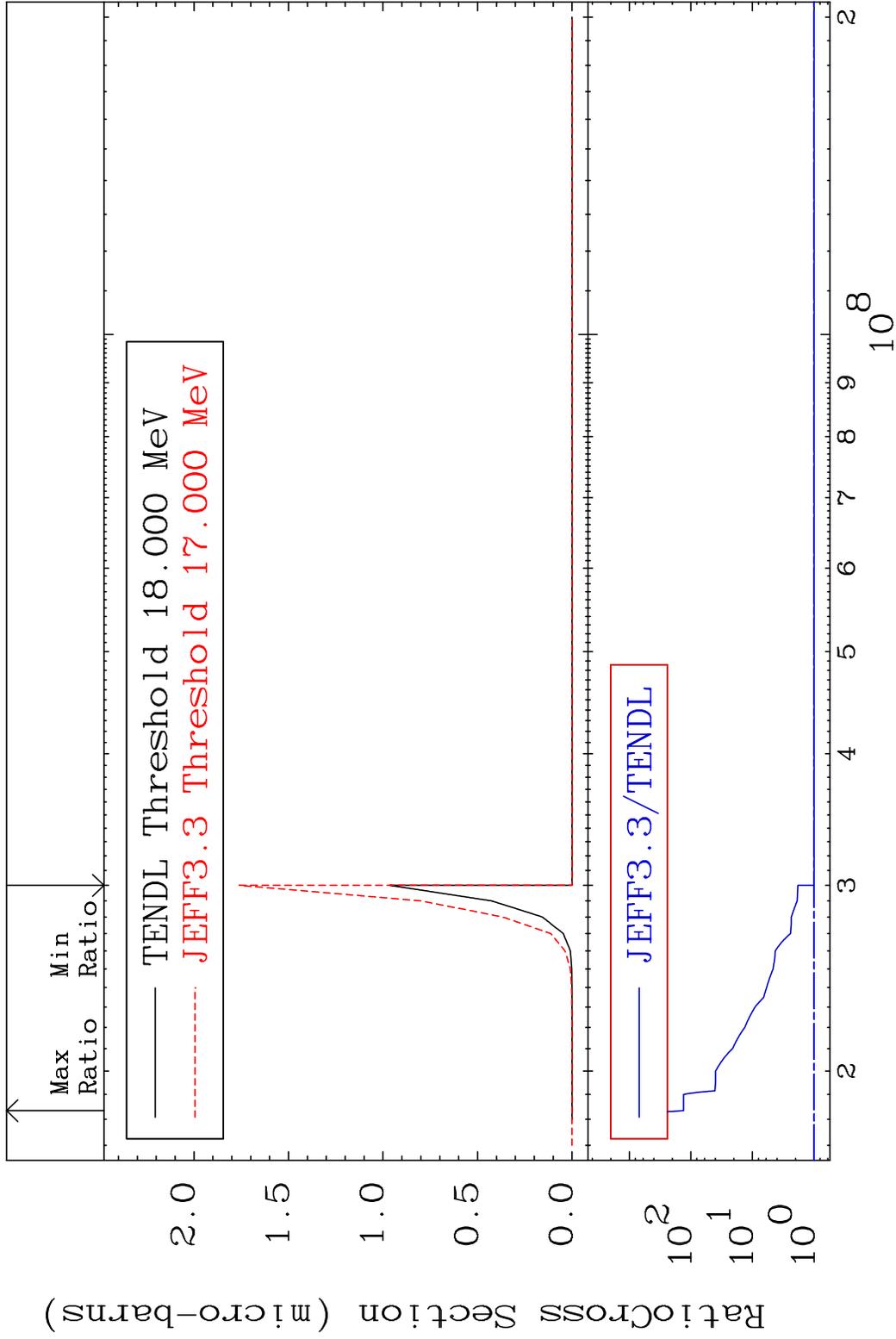


MAT 4437 (n,3n) p:43-Tc-97m1 44-Ru-100
 Radionuclide Production Cross Section 100% to 9999. %

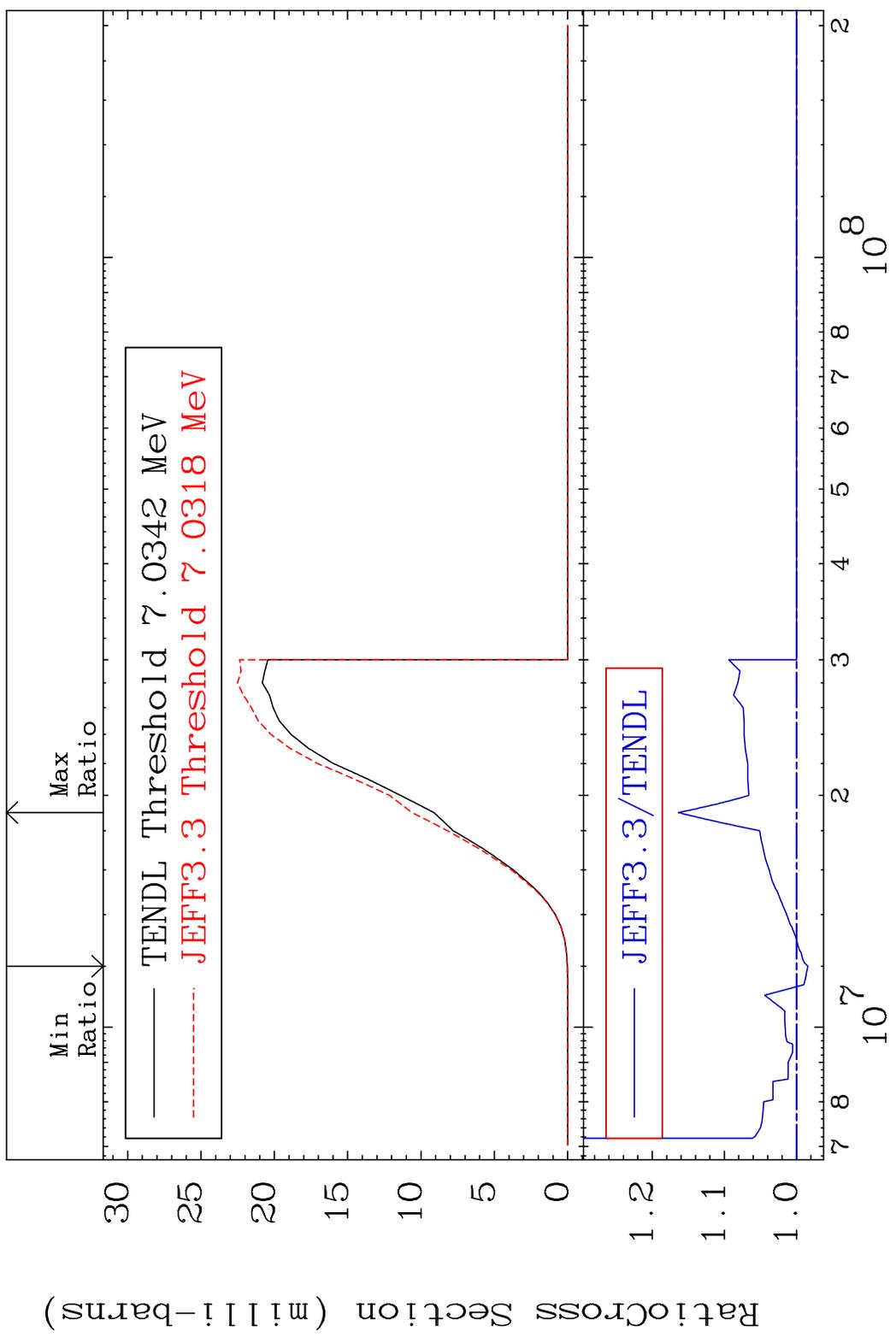




MAT 4437 (n, n') p α : 41-Nb-95m1 44-Ru-100
 Radionuclide Production Cross Section 9999. %

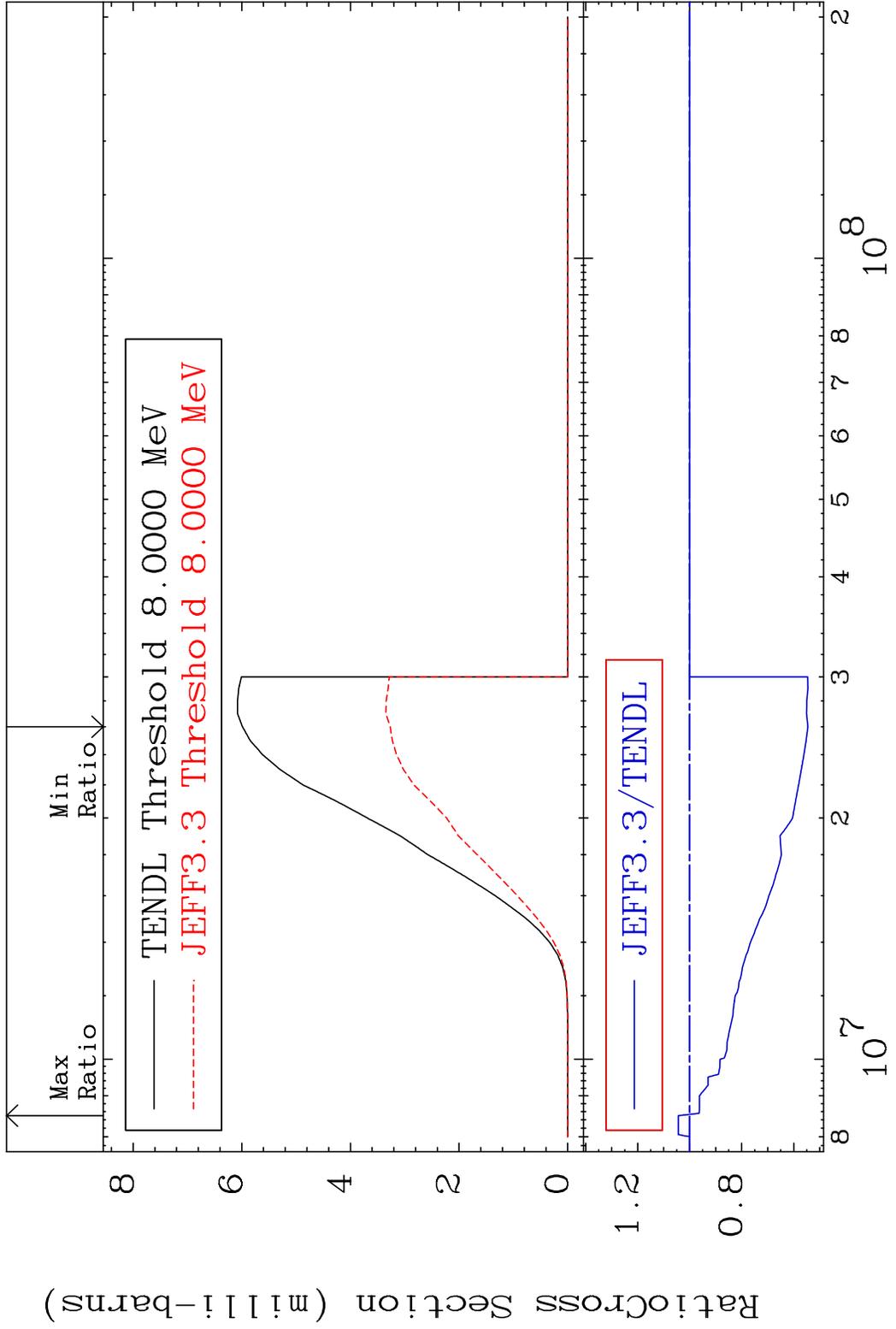


MAT 4437 (n,d): 43-Tc-99g 44-Ru-100
 Radionuclide Production Cross Section 16.39 %



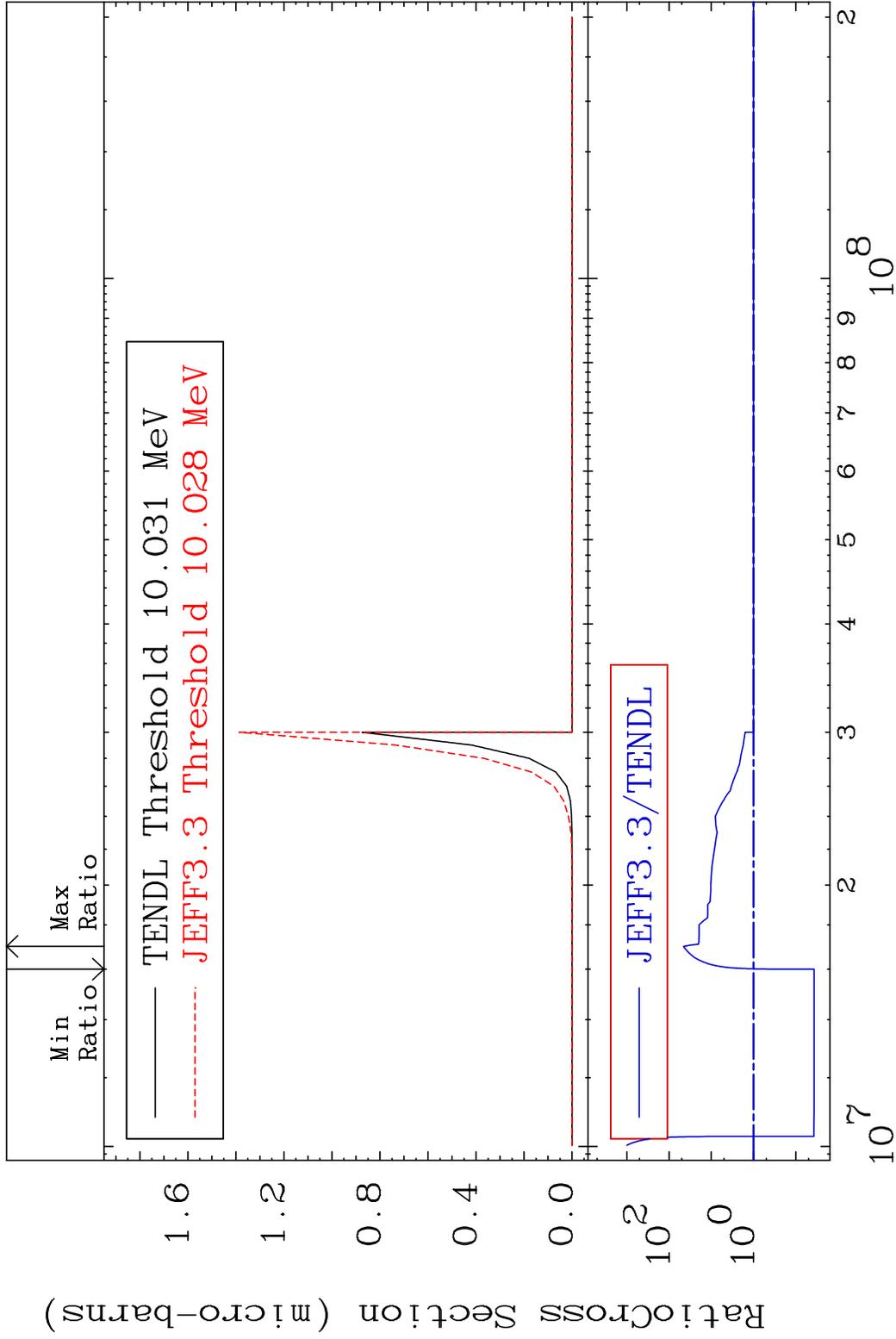
88 44-Ru-100

MAT 4437 (n,d):43-Tc-99m2 44-Ru-100
 Radionuclide Production Cross Section 4.384 %



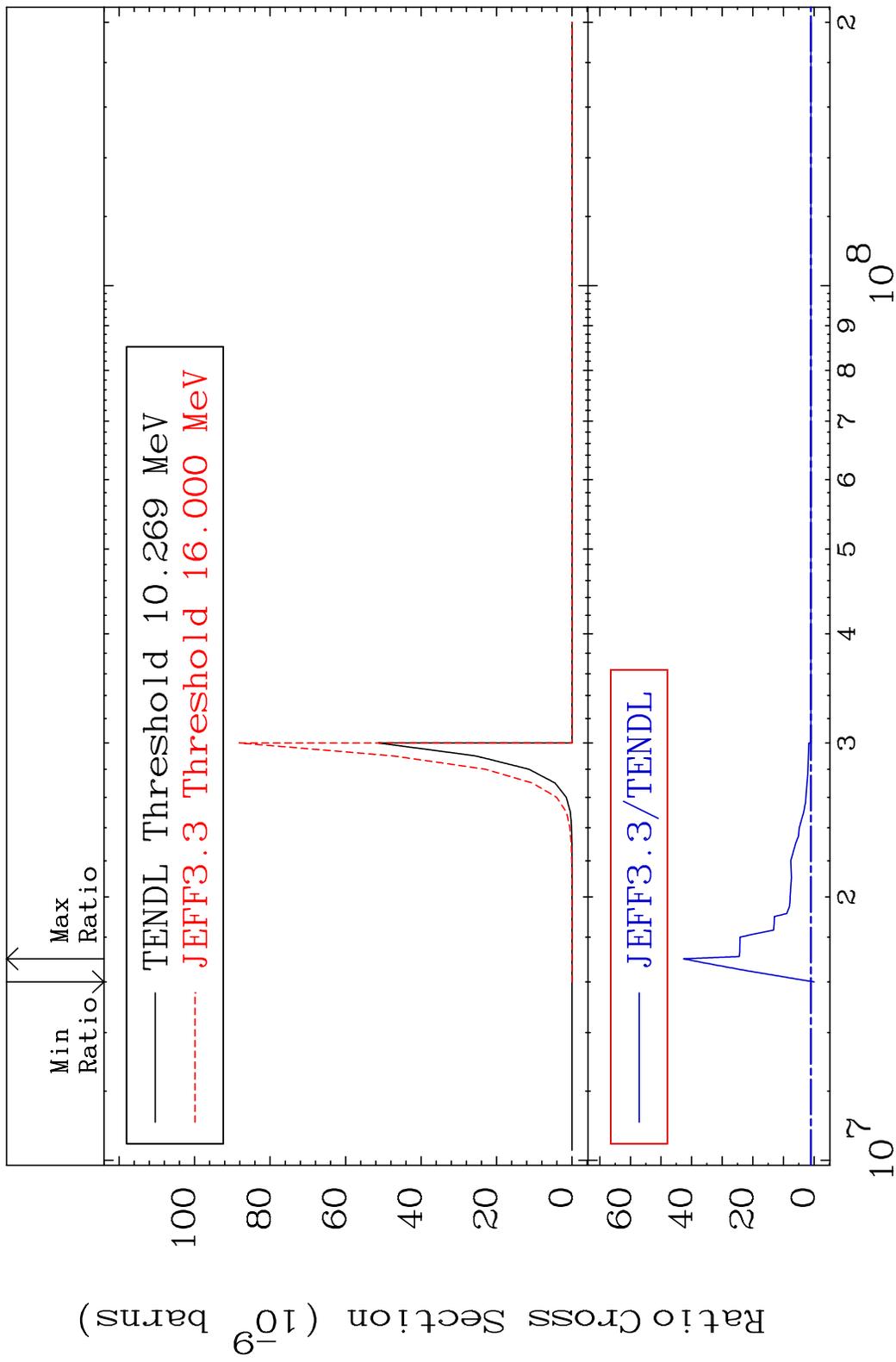
89 Incident Energy (eV) 44-Ru-100

MAT 4437 (n, d) α :41-Nb-95g 44-Ru-100
 Radionuclide Production Cross Section 96e28Bi d10 4446. %



90 44-Ru-100

MAT 4437 (n, d) α : 41-Nb-95m1 44-Ru-100
 Radionuclide Production Cross Section 180000 dpo 4165. %



91 Incident Energy (eV) 44-Ru-100