

Program Complot  
(Version 2018-1)

by

Dermott E. Cullen  
(Present Contact Information)

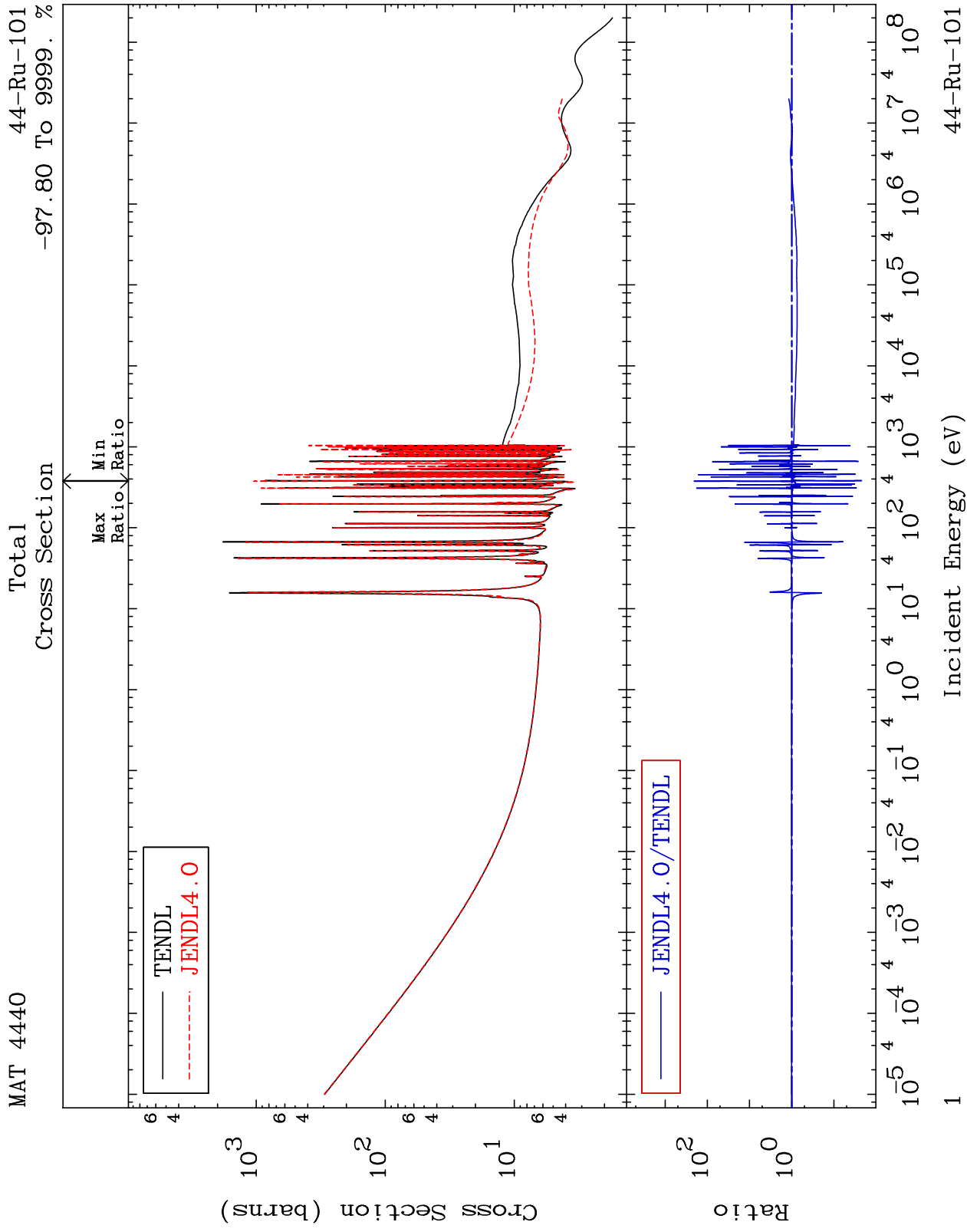
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E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

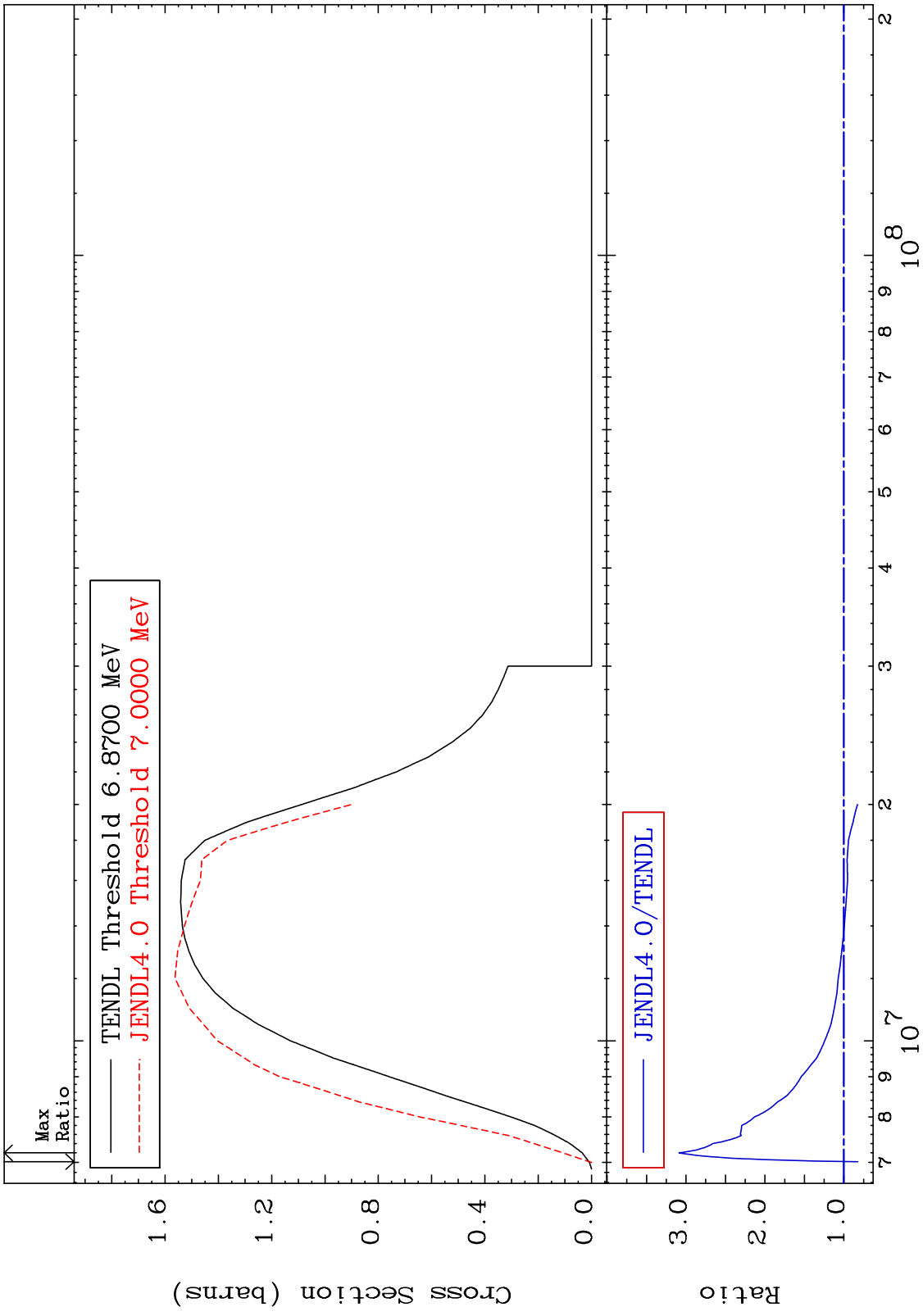
Press Mouse Button to Start





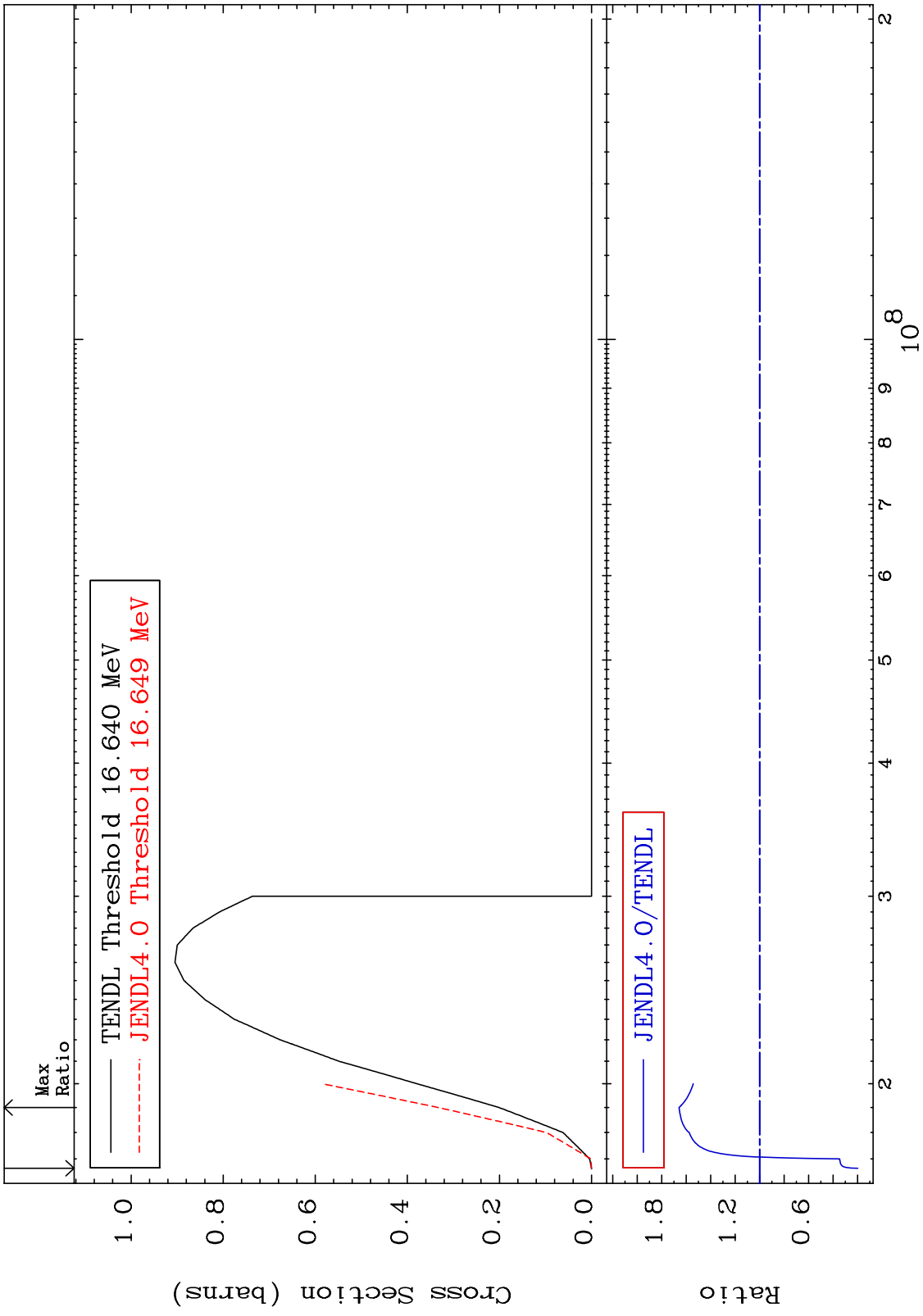


MAT 4440 (n,2n) Cross Section 44-Ru-101 -17.68 To 208.8 %

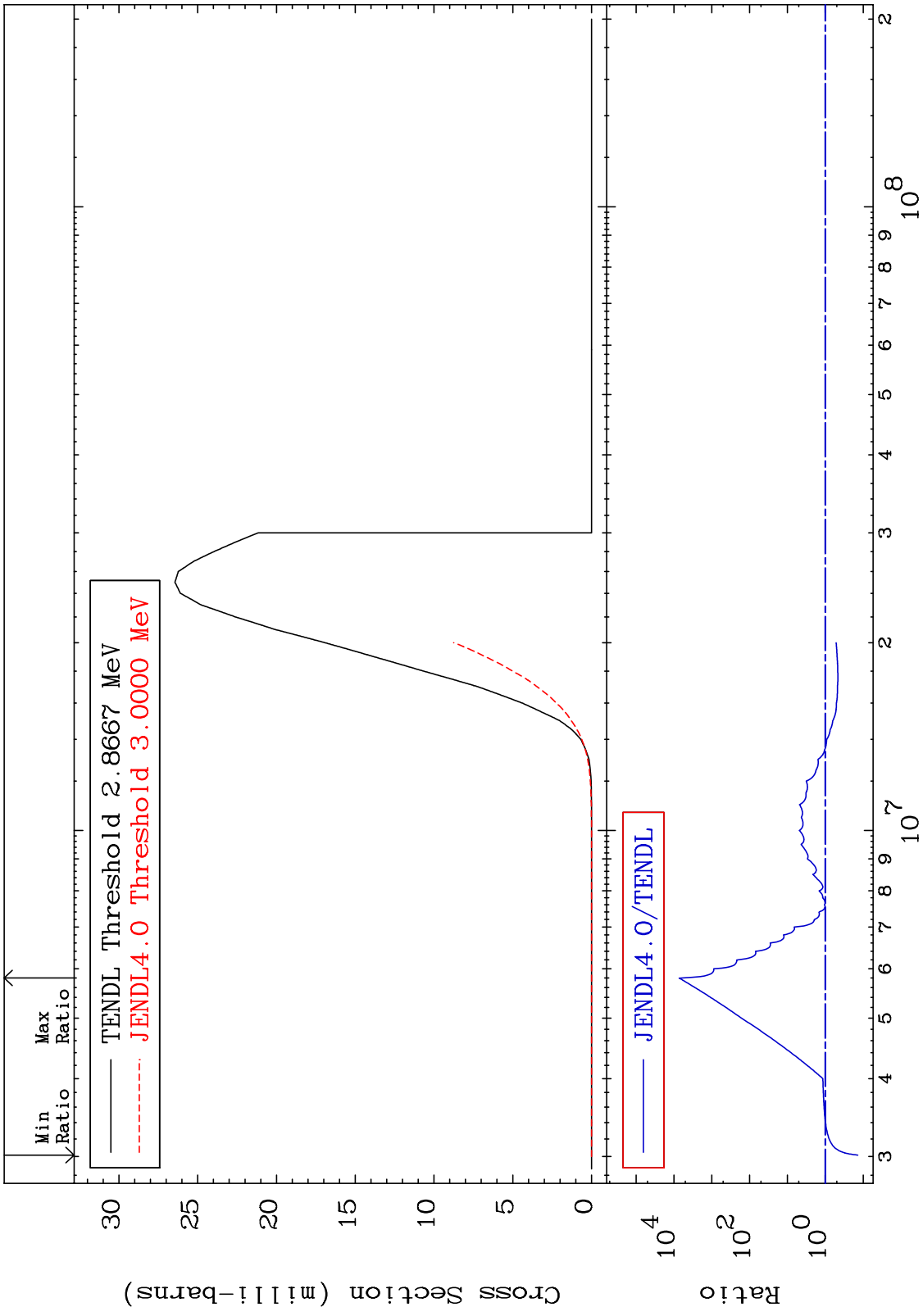


4 44-Ru-101 Incident Energy (eV)

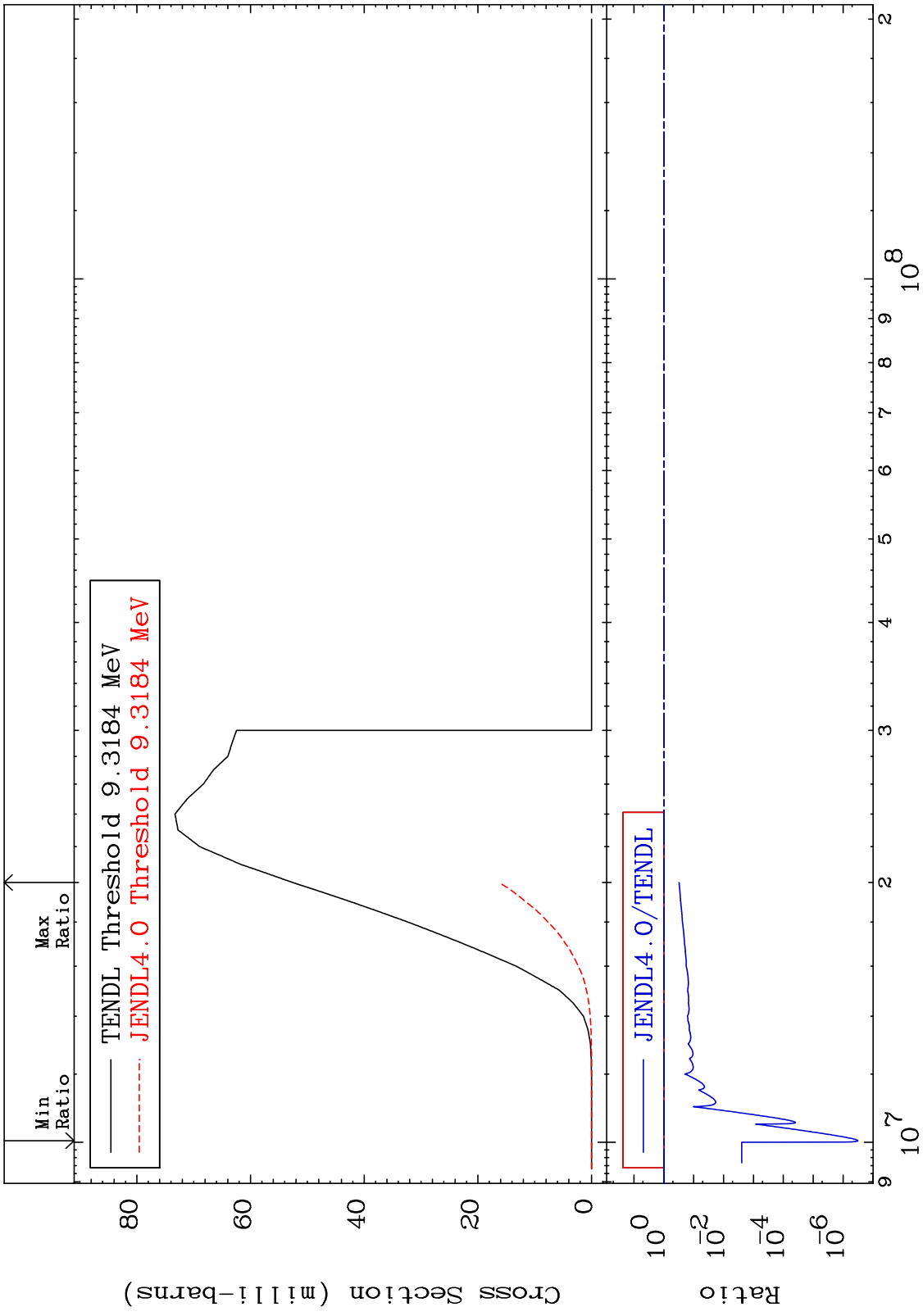
MAT 4440 (n,3n) Cross Section 44-Ru-101 -80.18 To 65.86 %



MAT 4440  $(n, n') \alpha$  44-Ru-101  
 Cross Section -86.18 To 9999. %



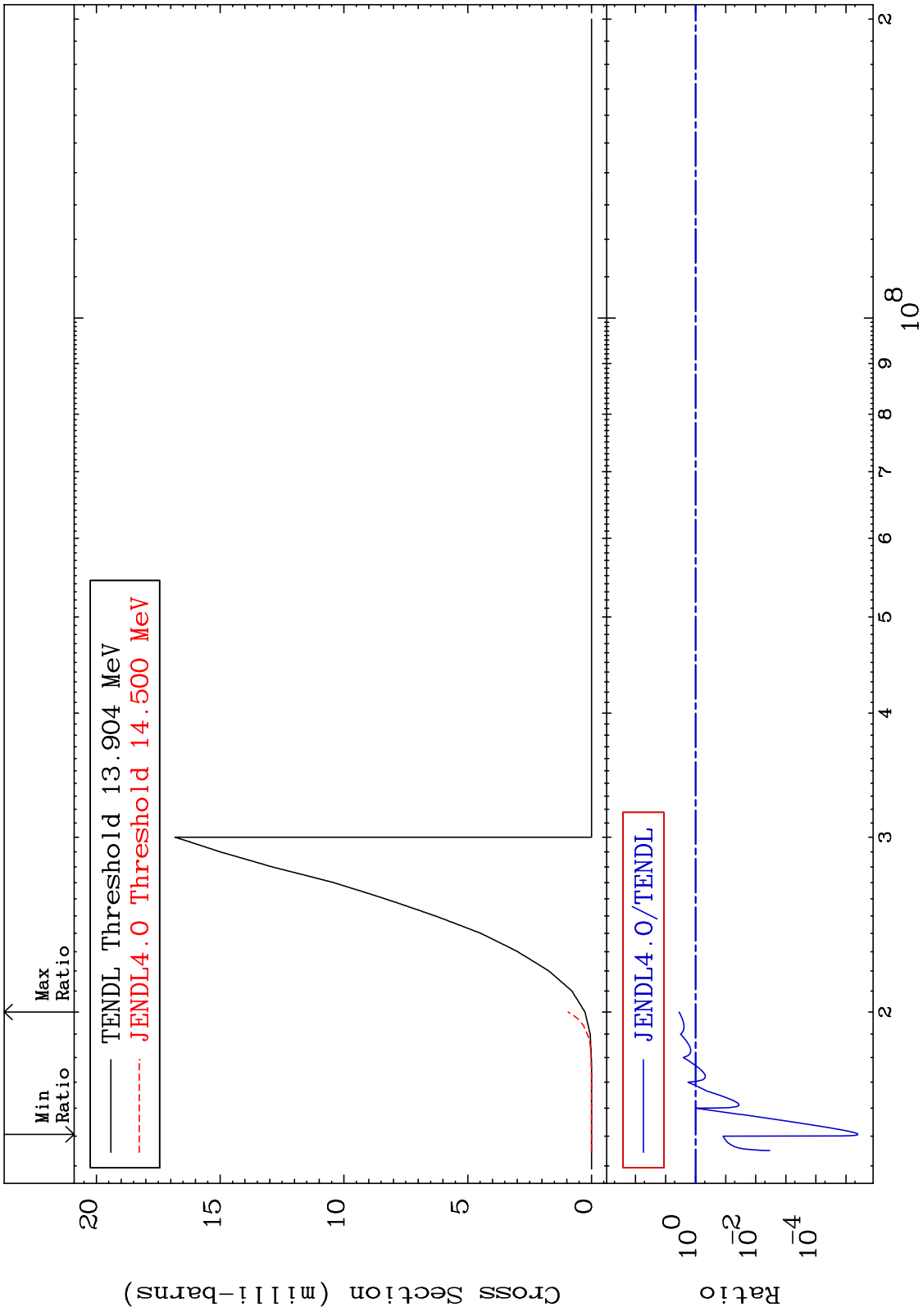
MAT 4440 44-Ru-101  
(n, n') p  
Cross Section  
-100.0 To -69.06%



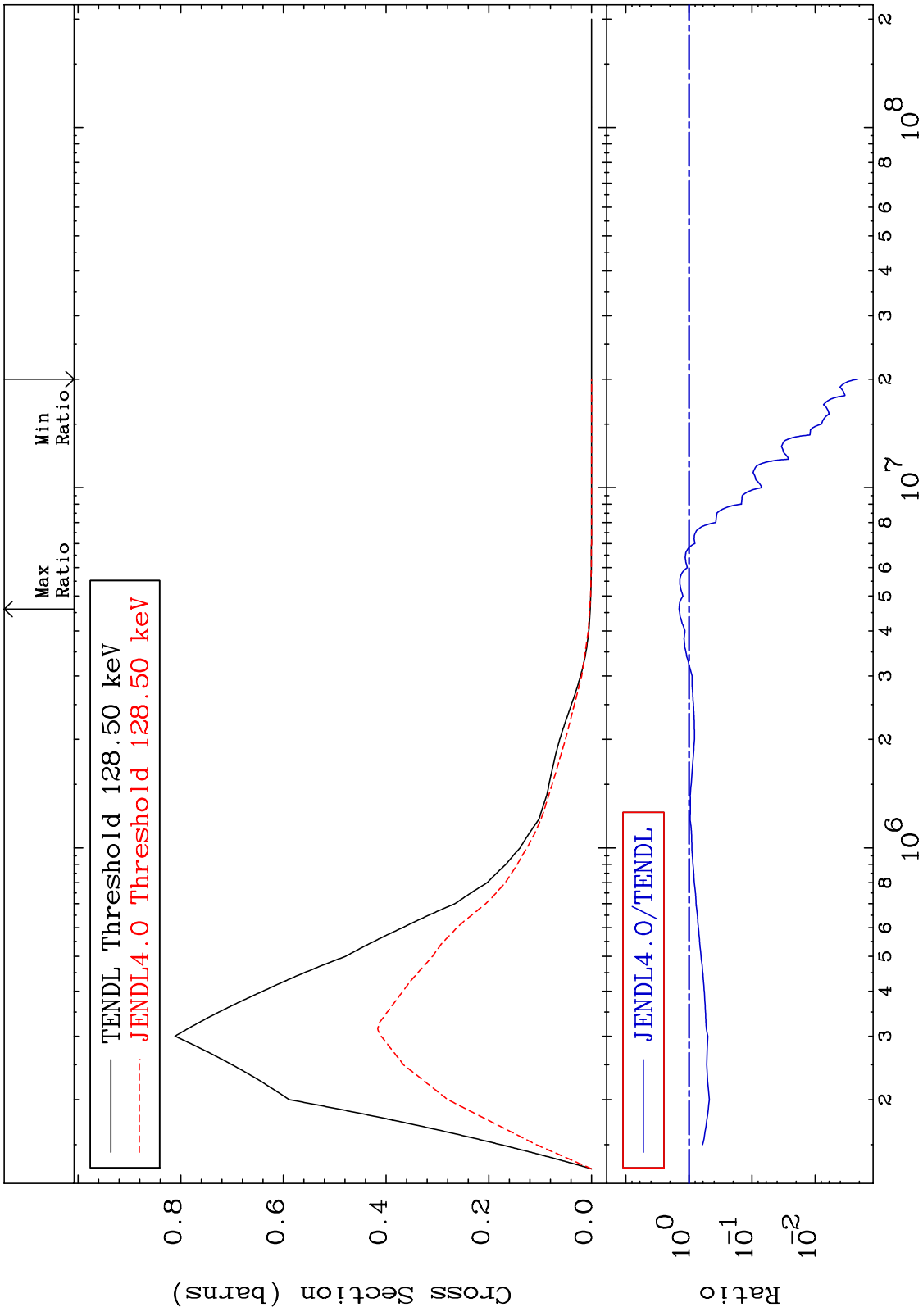
Incident Energy (eV) 44-Ru-101



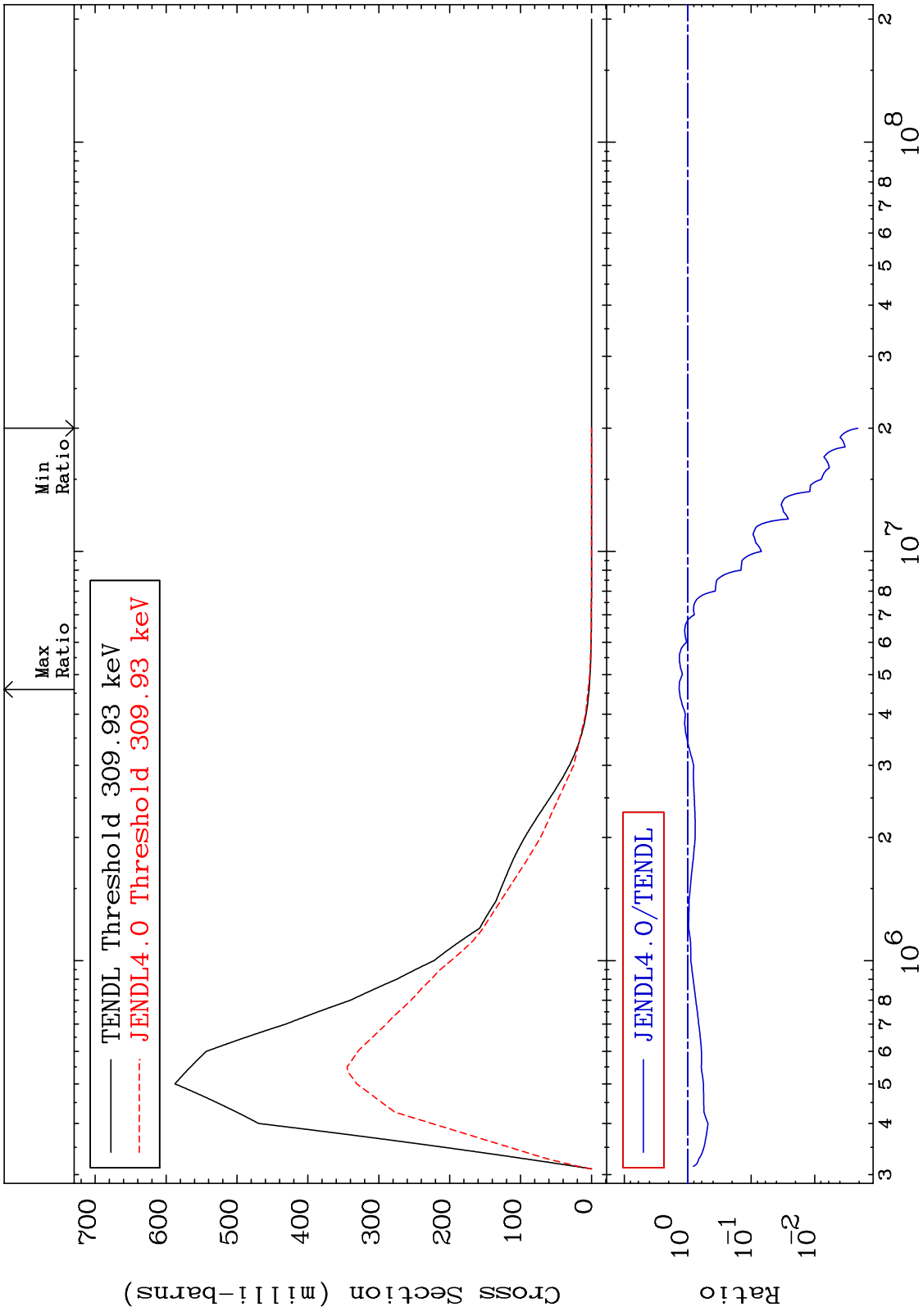
MAT 4440 (n, n') d 44-Ru-101  
 Cross Section -100.0 To 255.6 %



MAT 4440 MT= 51 (n,n') Level Cross Section 44-Ru-101 -99.79 To 43.90 %

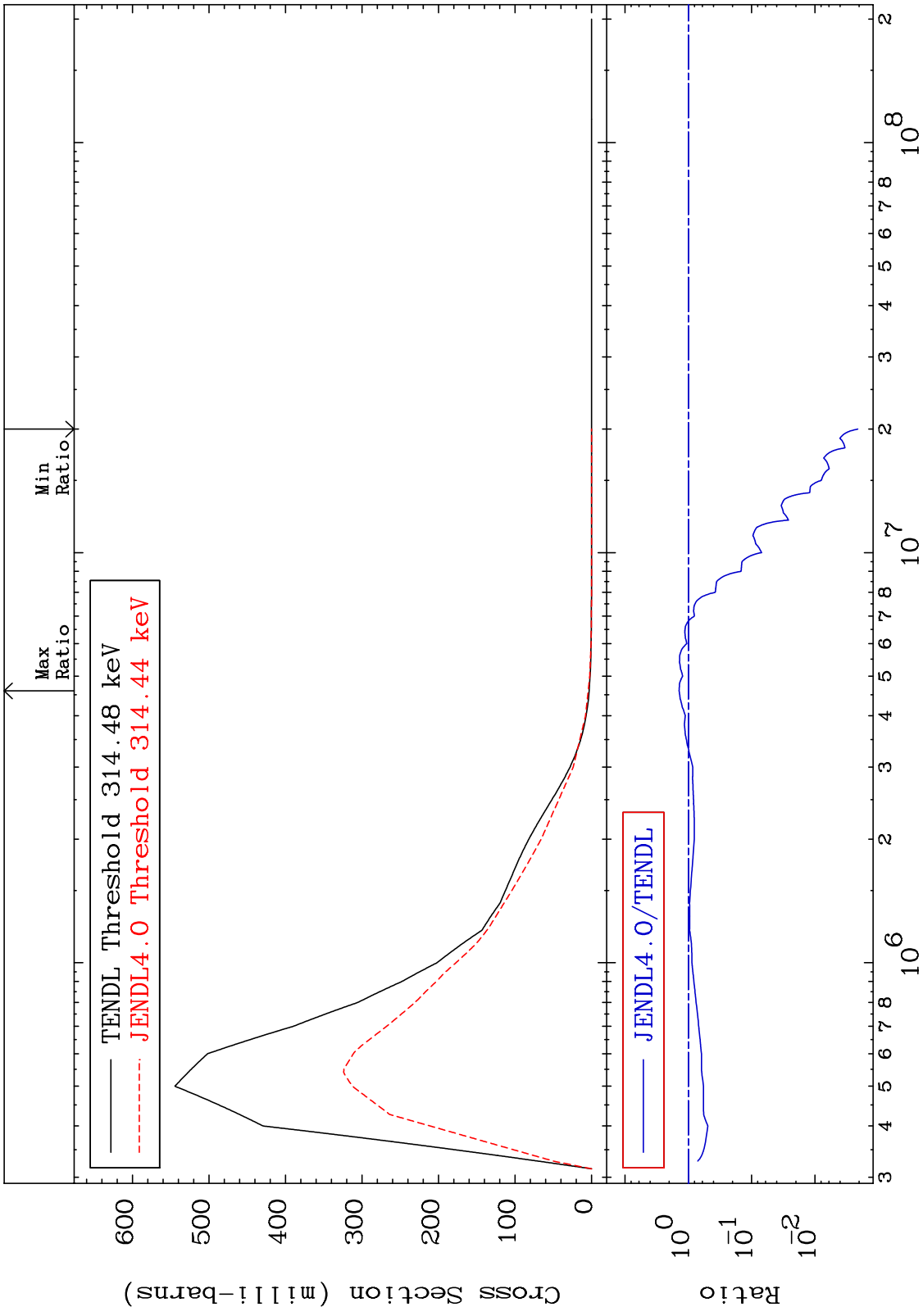


MAT 4440      MT= 52 (n,n') Level Cross Section      44-Ru-101  
 -99.79 To 36.94 %

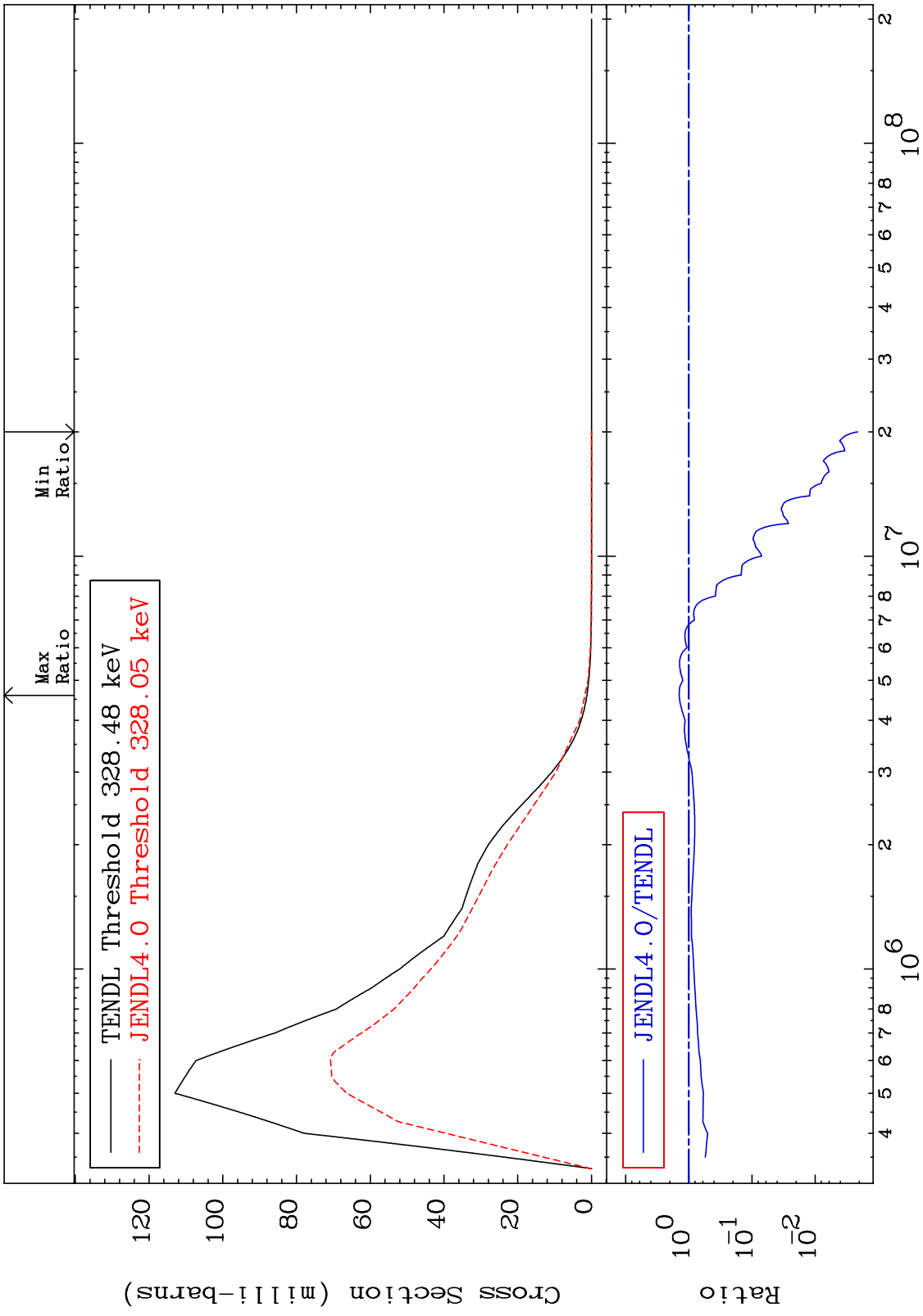


44-Ru-101

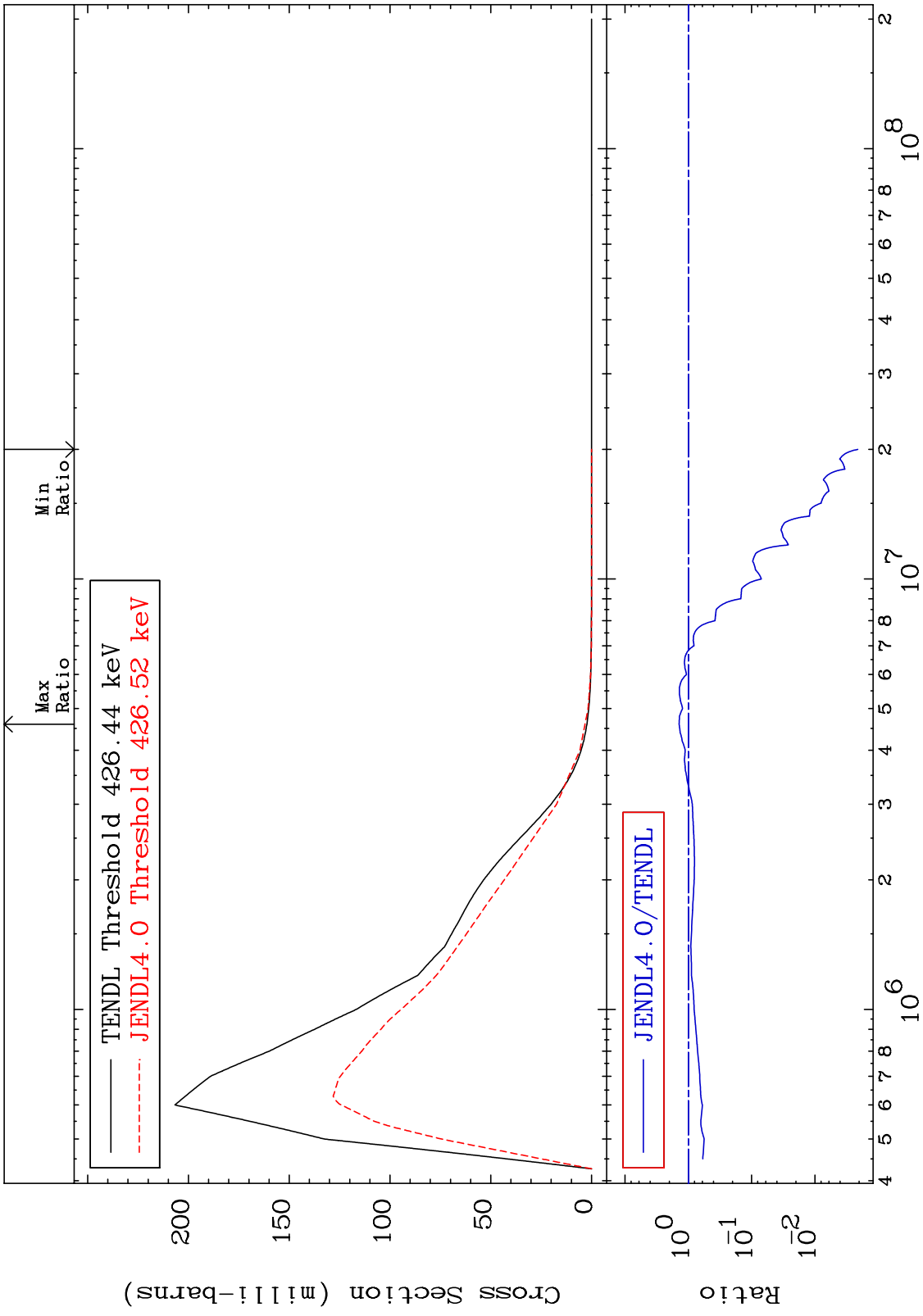
MAT 4440      MT= 53 (n,n') Level Cross Section      44-Ru-101  
 -99.79 To 40.02 %



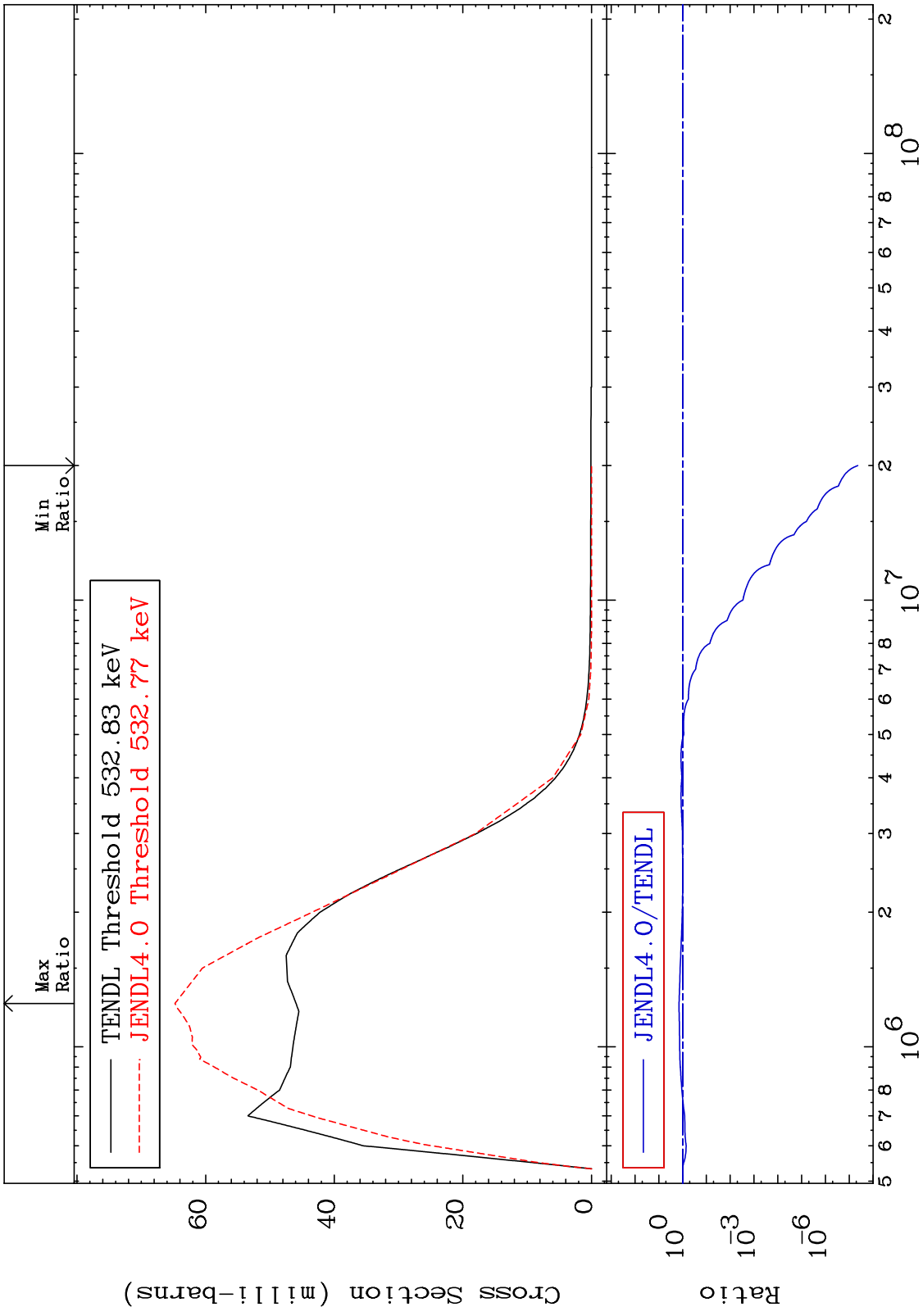
MAT 4440      MT= 54 (n,n') Level Cross Section      44-Ru-101  
 -99.79 To 43.11 %



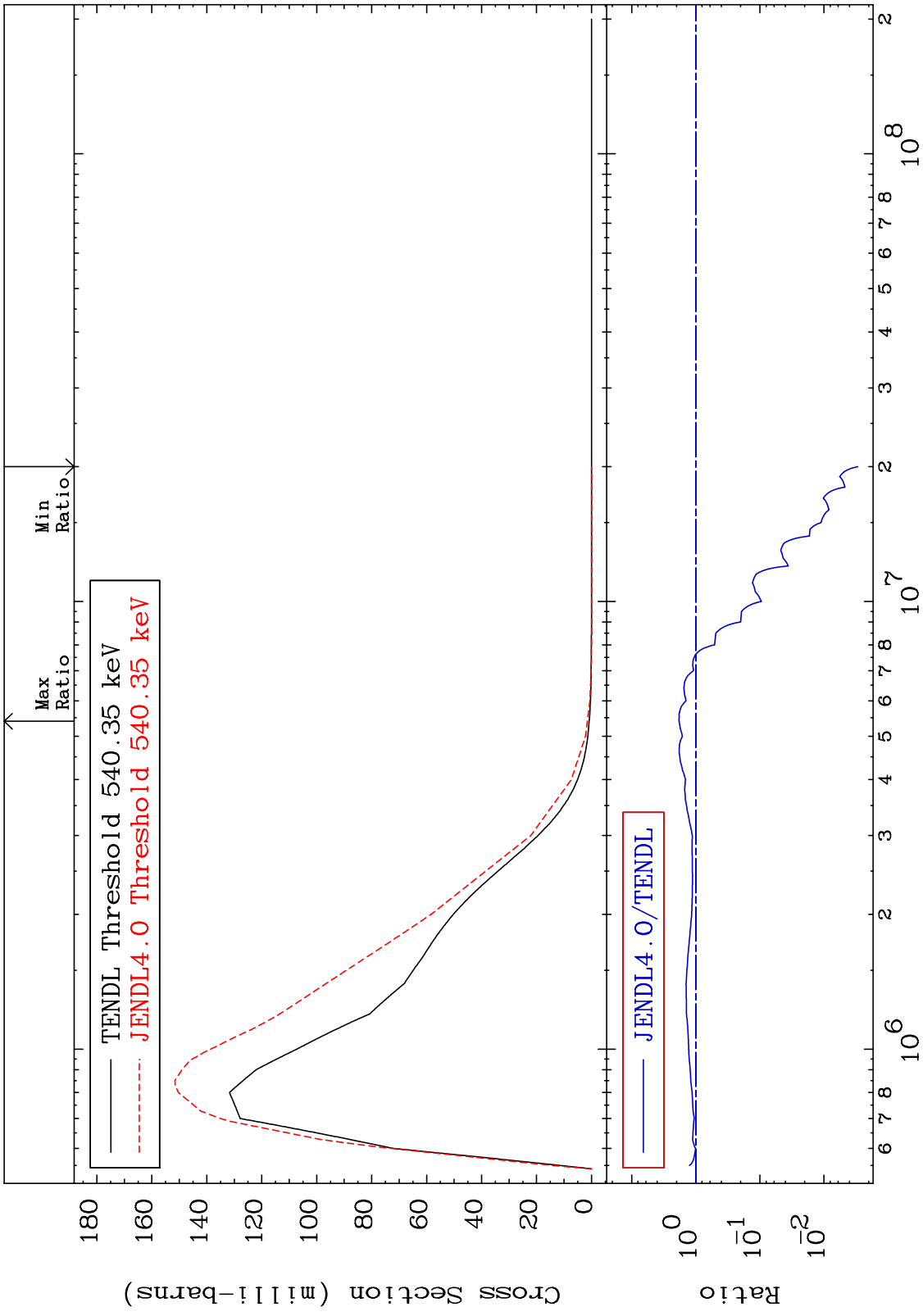
MAT 4440      MT= 55 (n,n') Level Cross Section      44-Ru-101  
 -99.79 To 40.17 %



MAT 4440      MT= 56 (n,n') Level Cross Section      44-Ru-101  
 -100.0 To 40.97 %

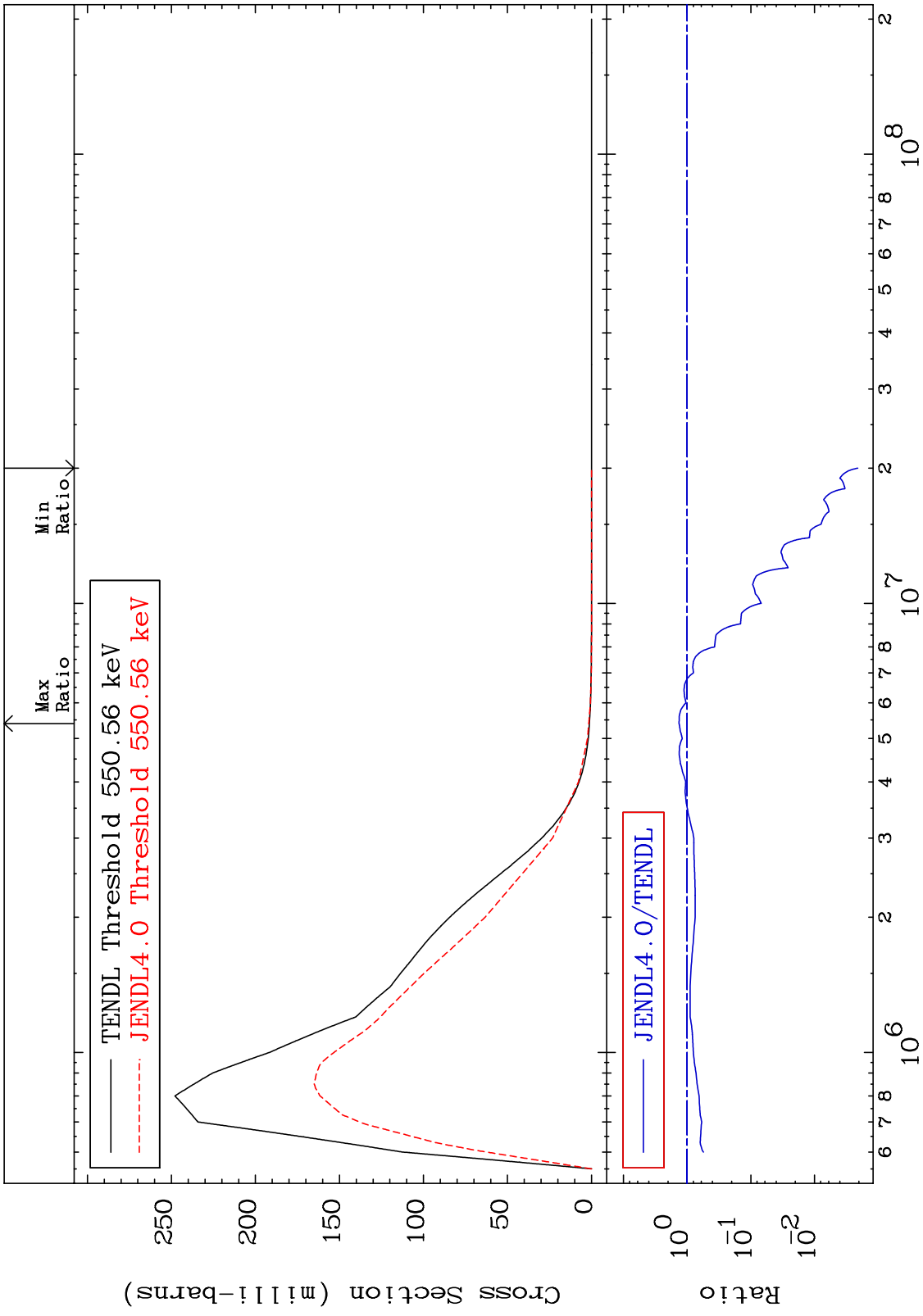


MAT 4440      MT= 57 (n,n') Level Cross Section      44-Ru-101  
 -99.70 To 82.53 %



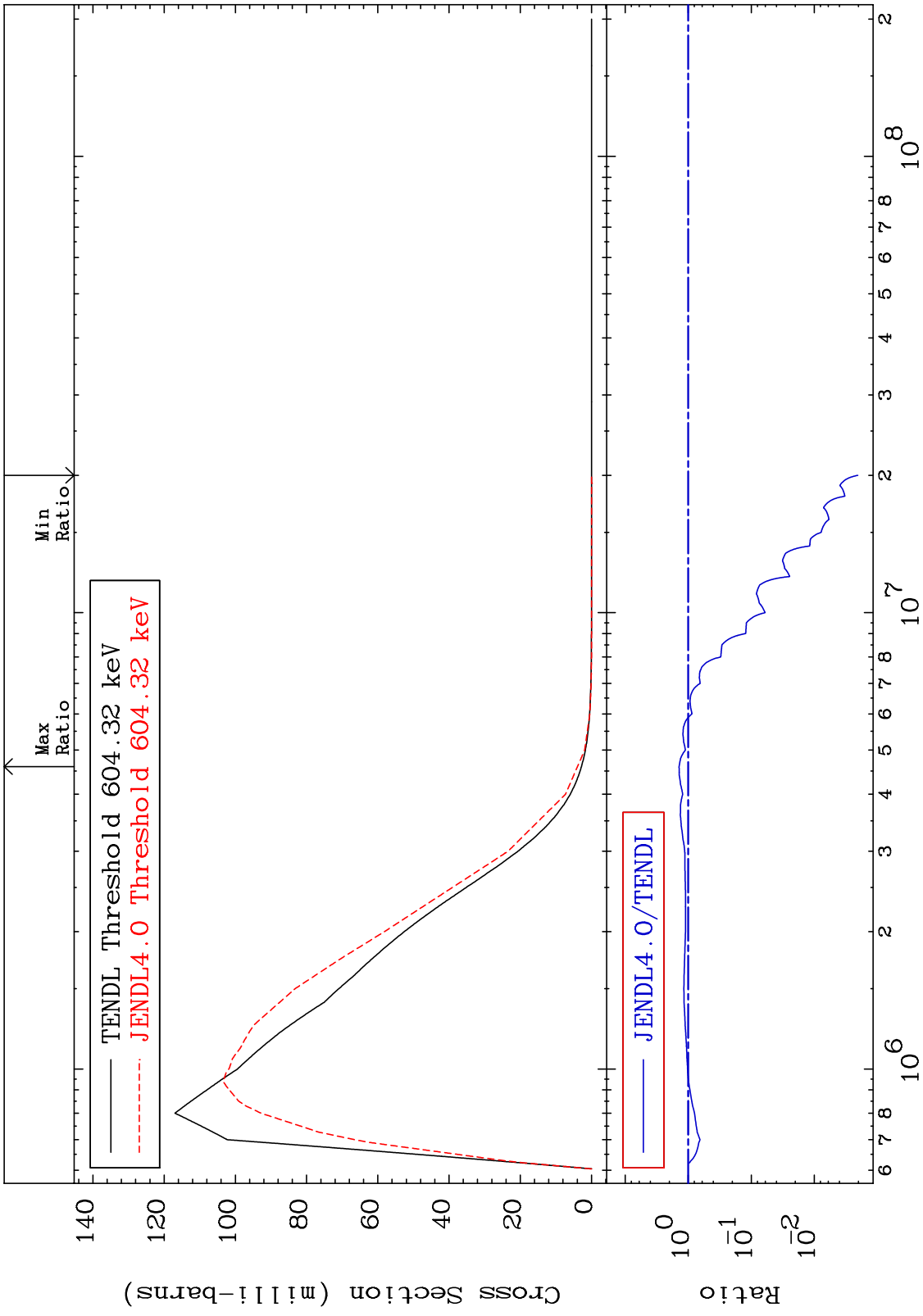


MAT 4440      MT= 58 (n,n') Level Cross Section      44-Ru-101  
 -99.79 To 34.02 %



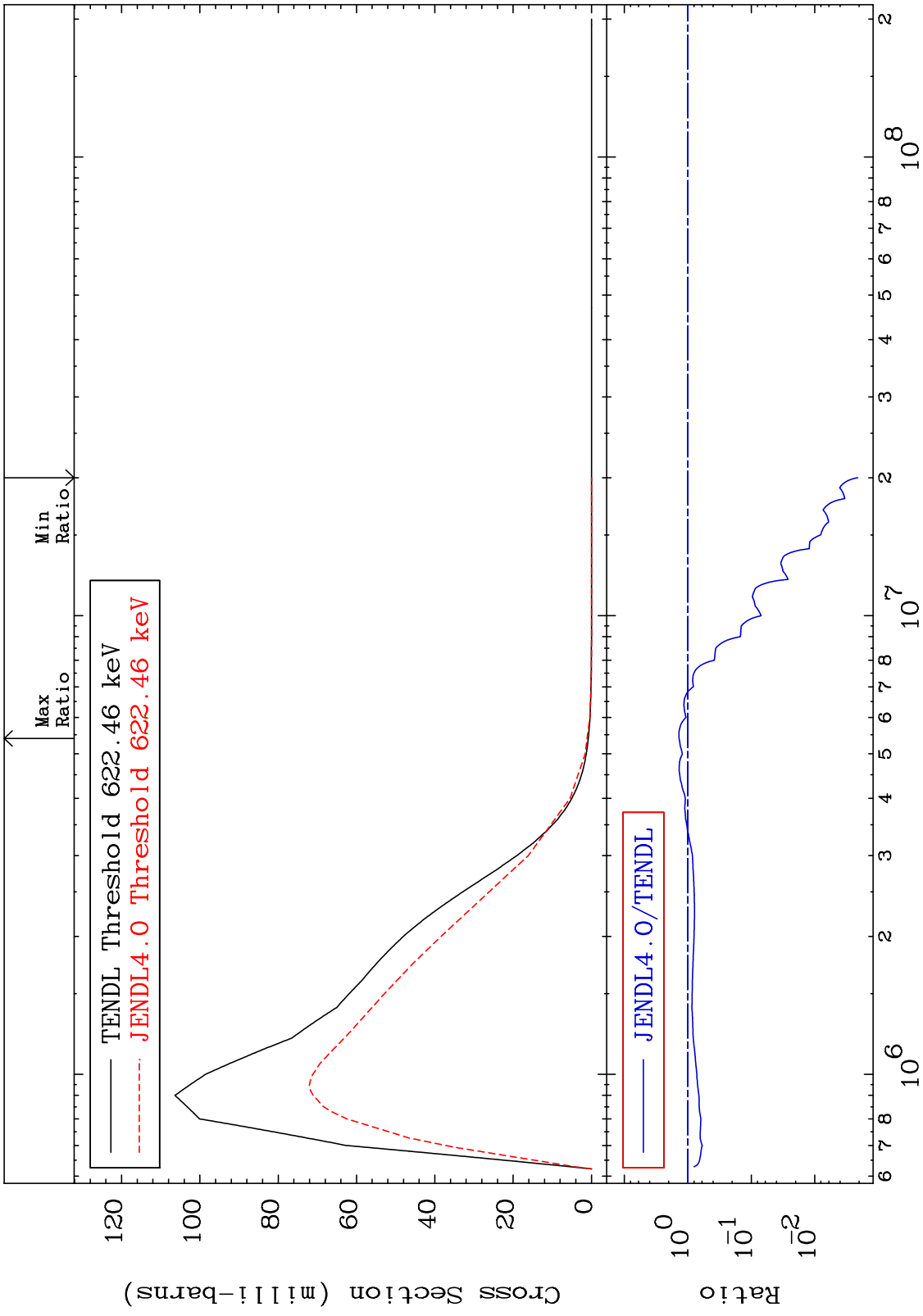
16      Incident Energy (eV)      44-Ru-101

MAT 4440      MT= 59 (n,n') Level      44-Ru-101  
 Cross Section      -99.80 To 39.86 %

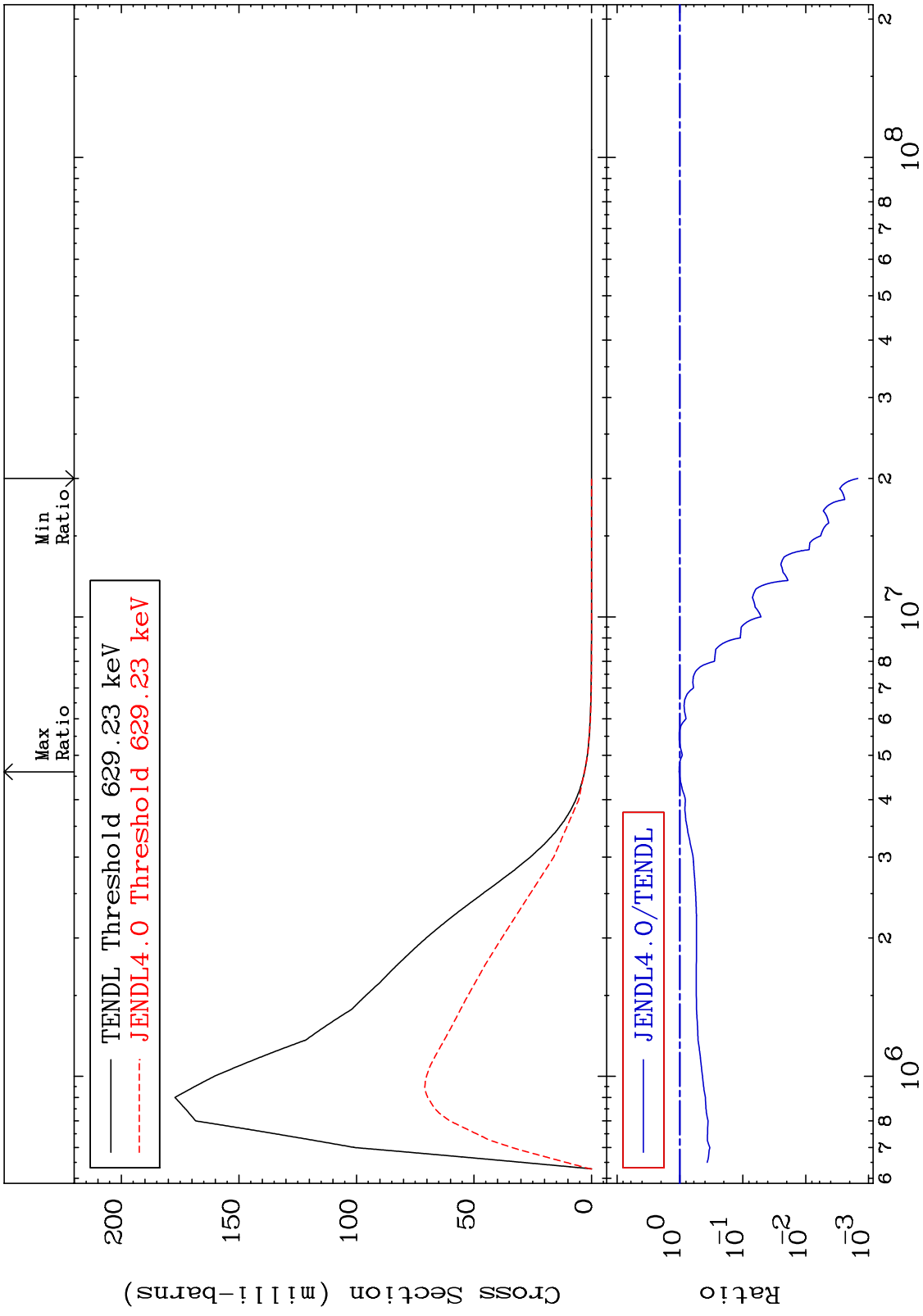


17      44-Ru-101

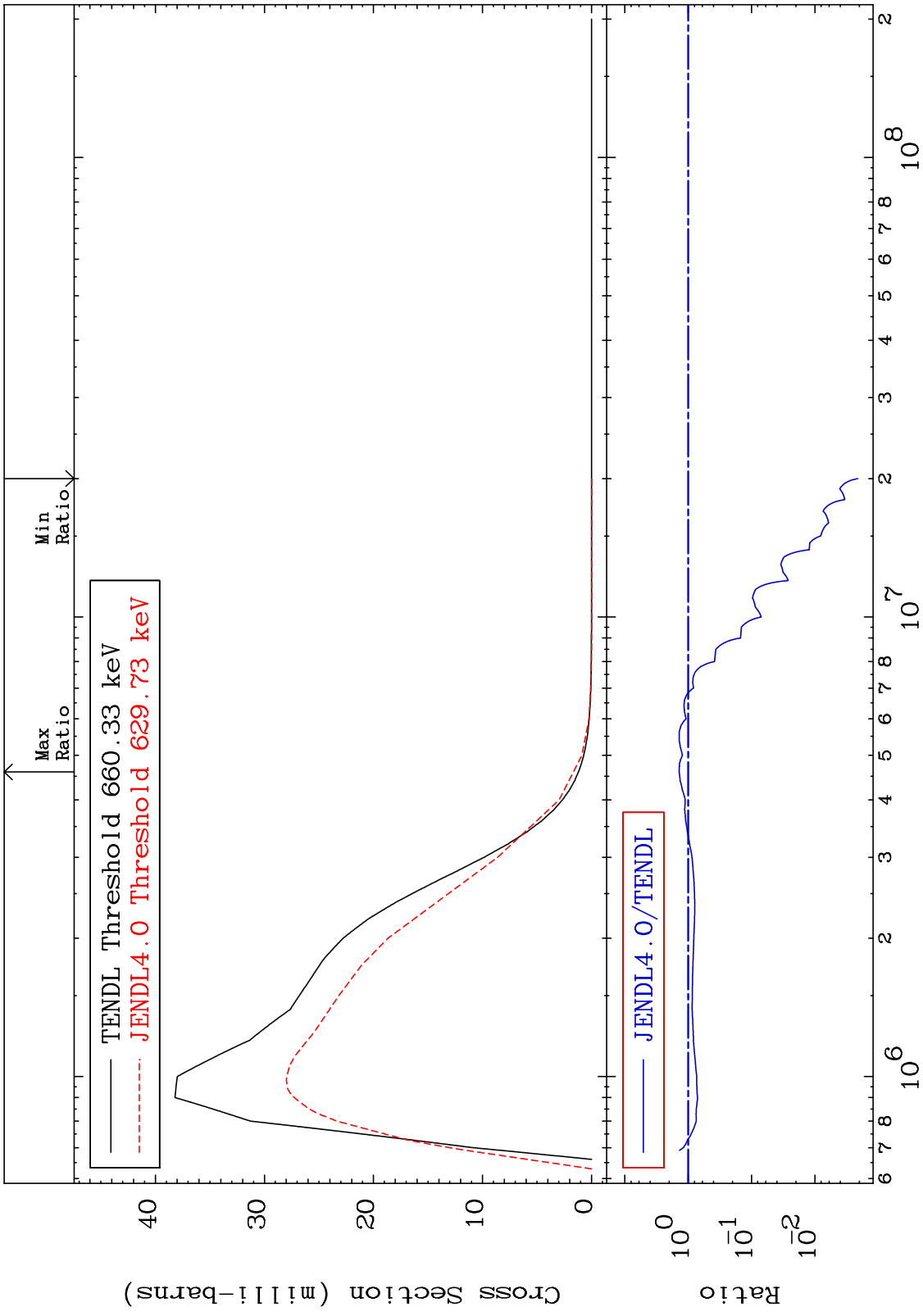
MAT 4440      MT= 60 (n,n') Level Cross Section      44-Ru-101  
 -99.79 To 37.51 %



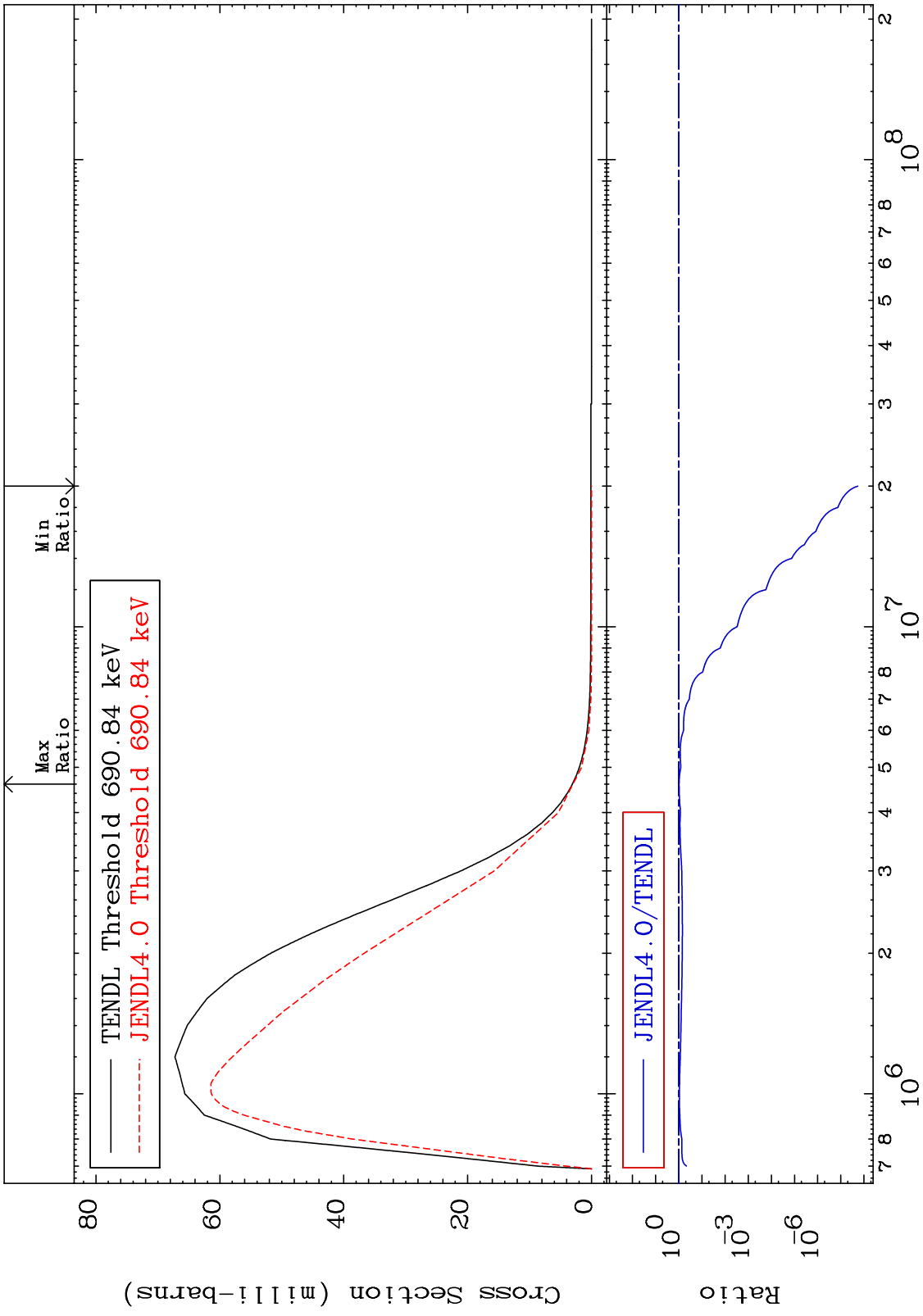
MAT 4440 MT= 61 (n,n') Level Cross Section 44-Ru-101  
 -99.85 To 3.179 %



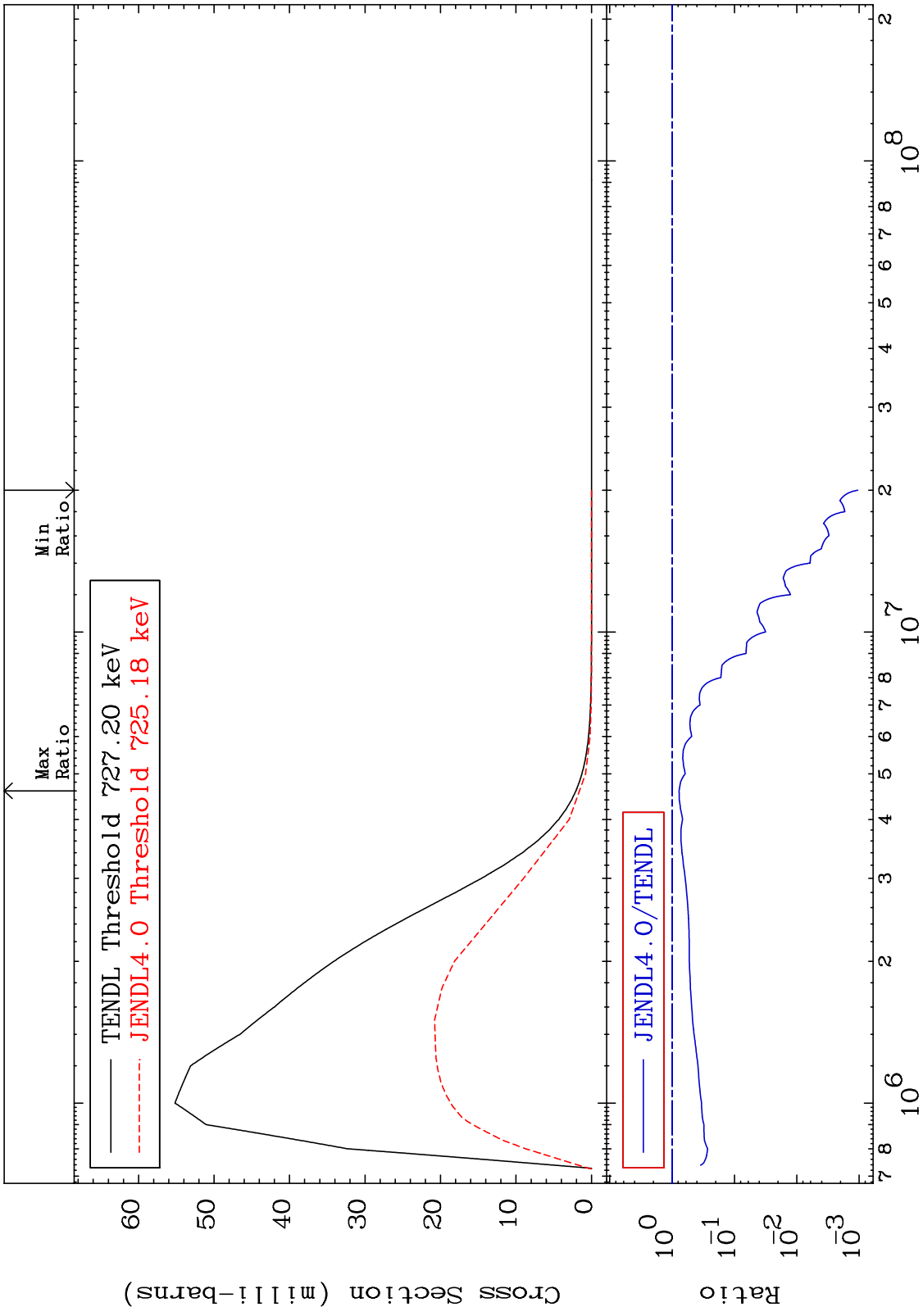
MAT 4440      MT= 62 (n,n') Level Cross Section      44-Ru-101  
 -99.79 To 39.71 %



MAT 4440      MT= 63 (n,n') Level Cross Section      44-Ru-101  
 -100.0 To -2.449%

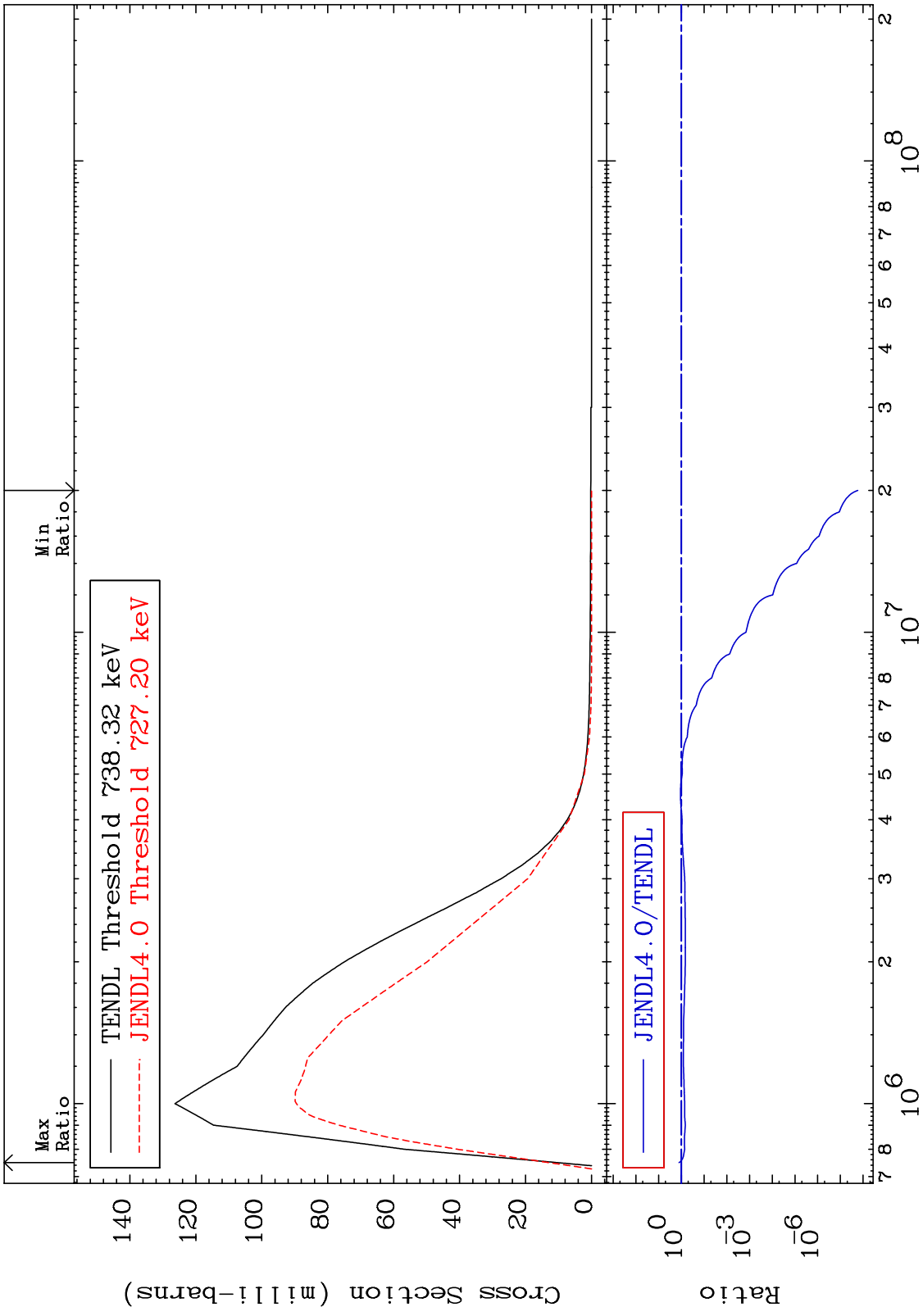


MAT 4440 MT= 64 (n,n') Level Cross Section 44-Ru-101 -99.89 To -22.56%



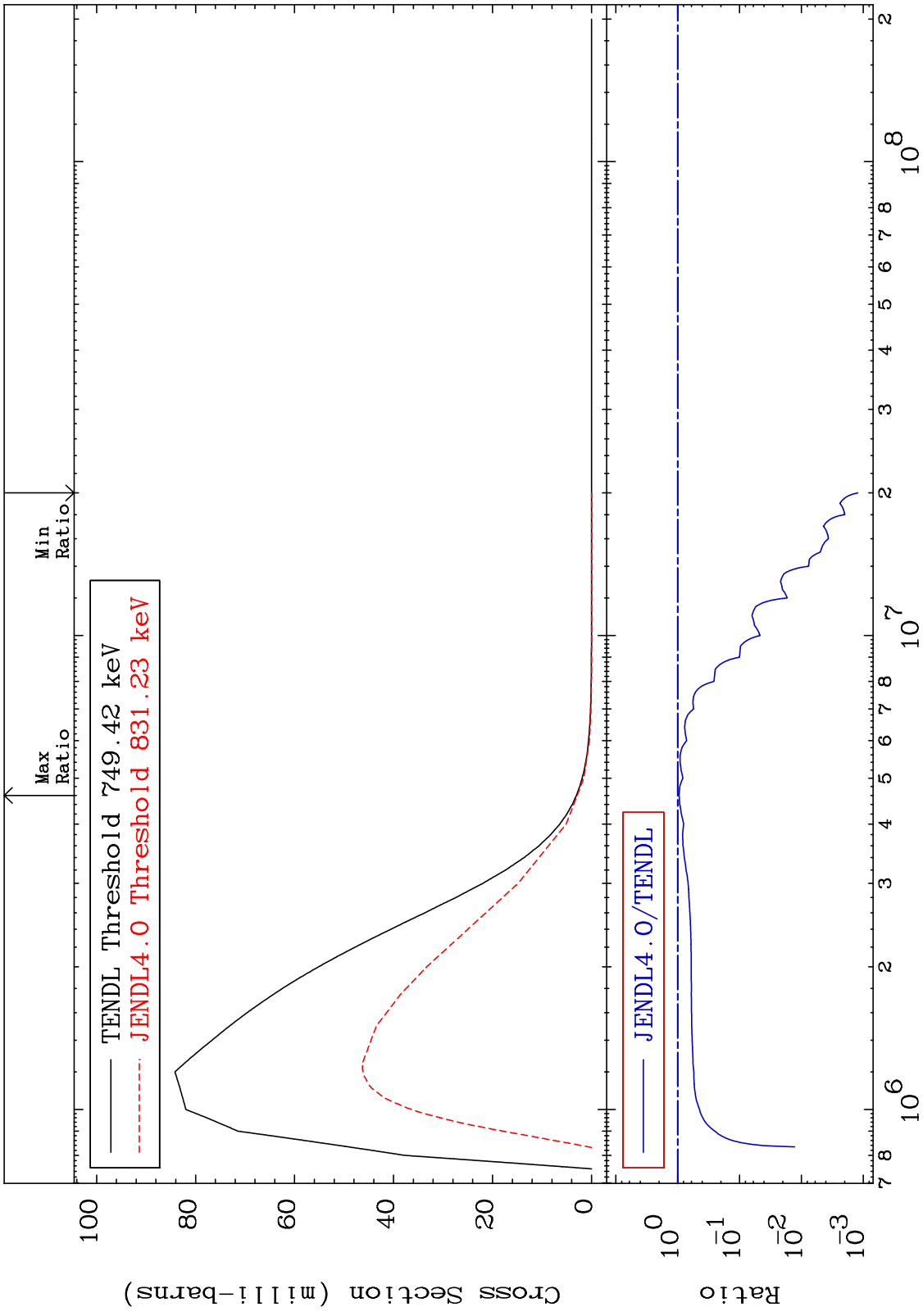
Incident Energy (eV) 44-Ru-101

MAT 4440      MT= 65 (n,n') Level      44-Ru-101  
 Cross Section      -100.0 To 25.76 %

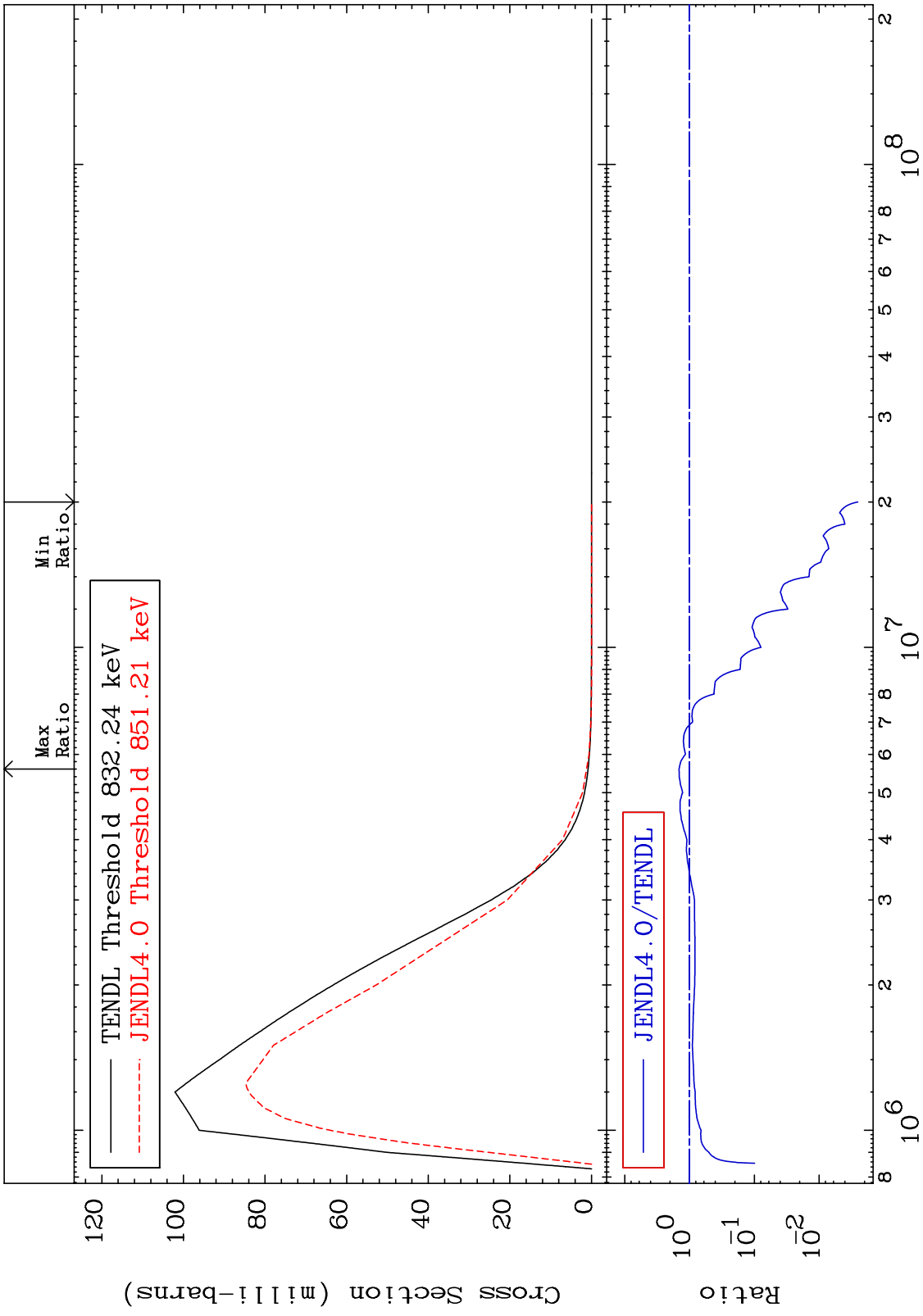




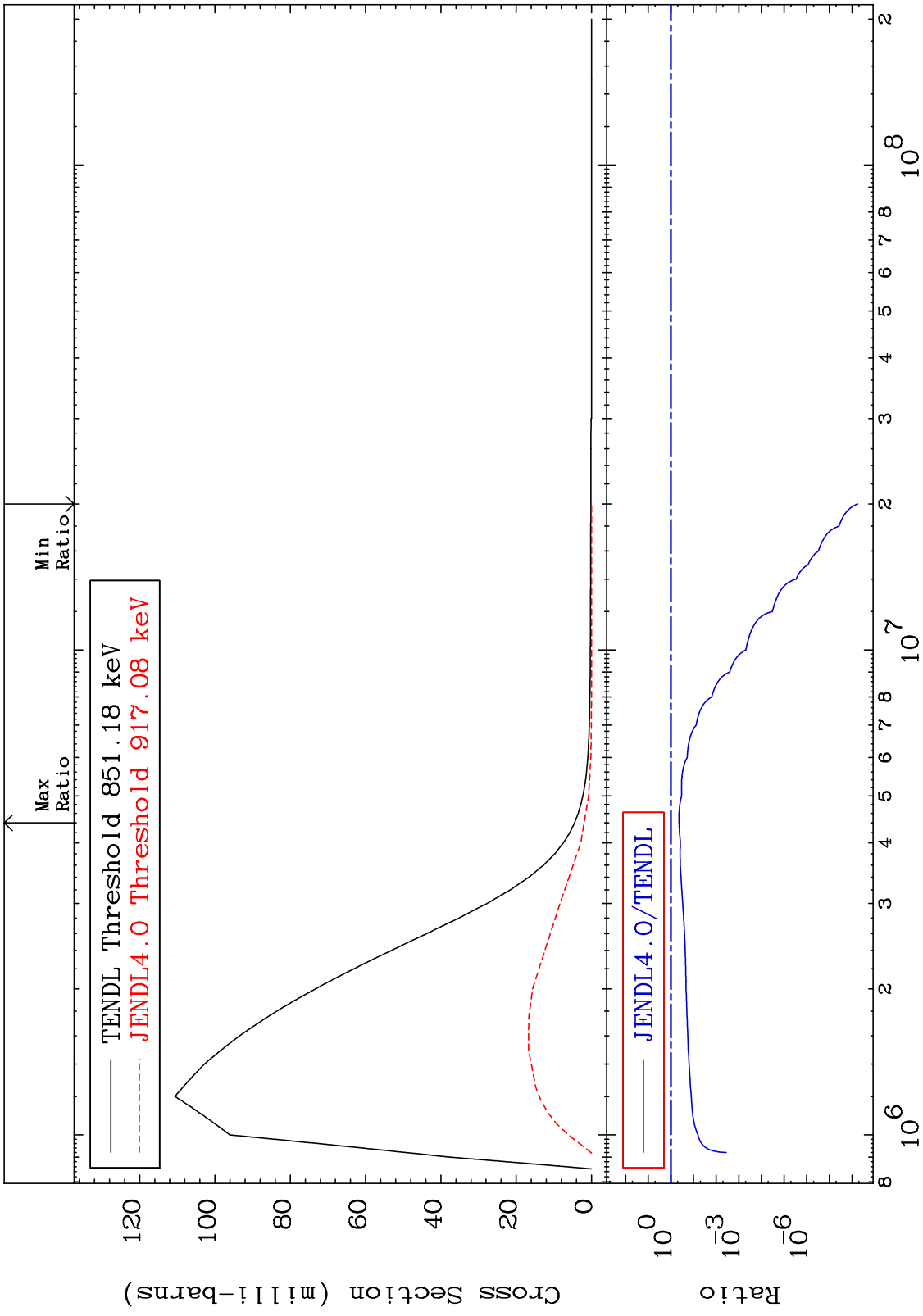
MAT 4440 MT= 66 (n,n') Level Cross Section 44-Ru-101 -99.88 To -5.224%



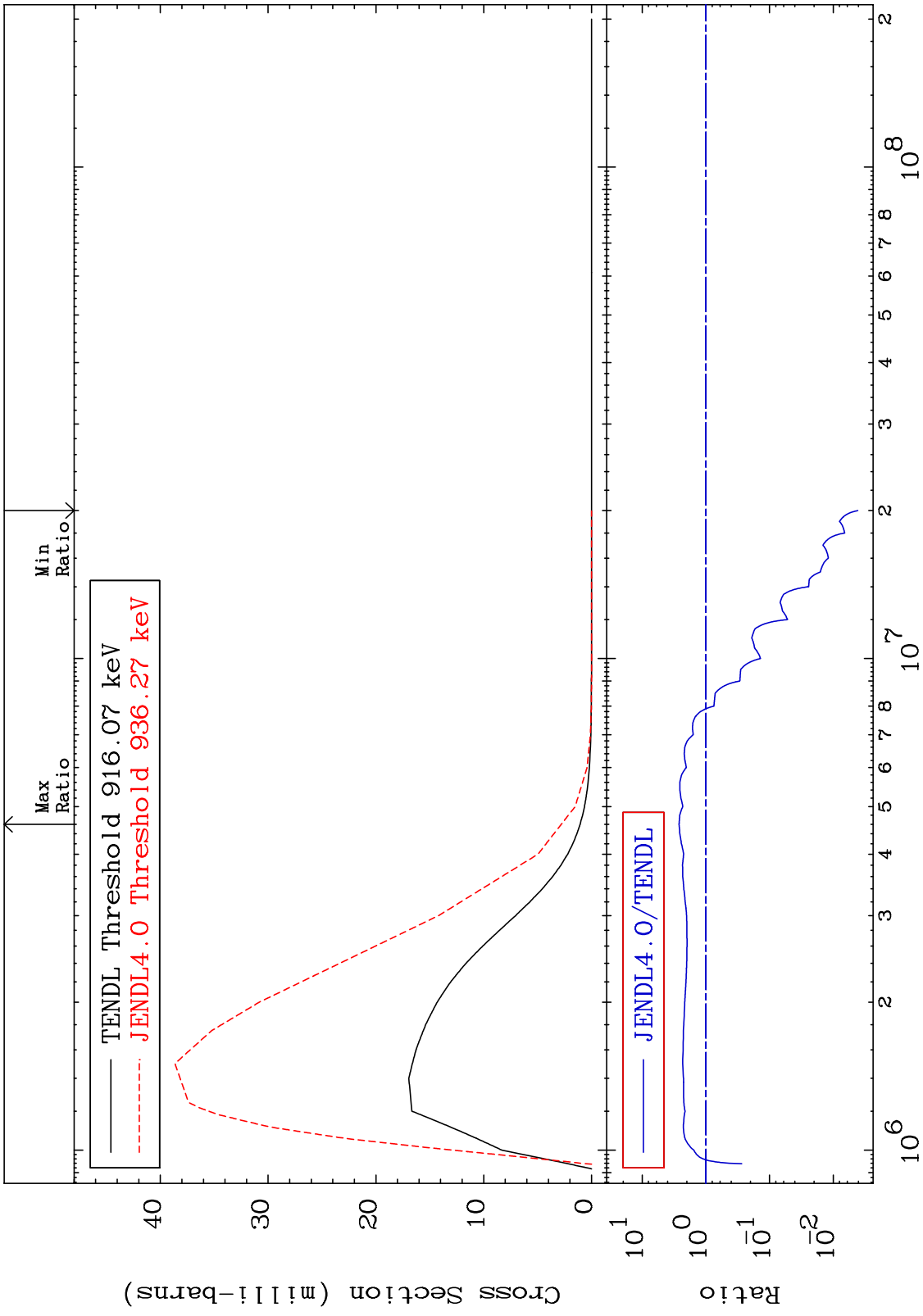
MAT 4440 MT= 67 (n,n') Level Cross Section 44-Ru-101 -99.75 To 45.23 %



MAT 4440      MT= 68 (n,n') Level Cross Section      44-Ru-101  
 -100.0 To -56.46%

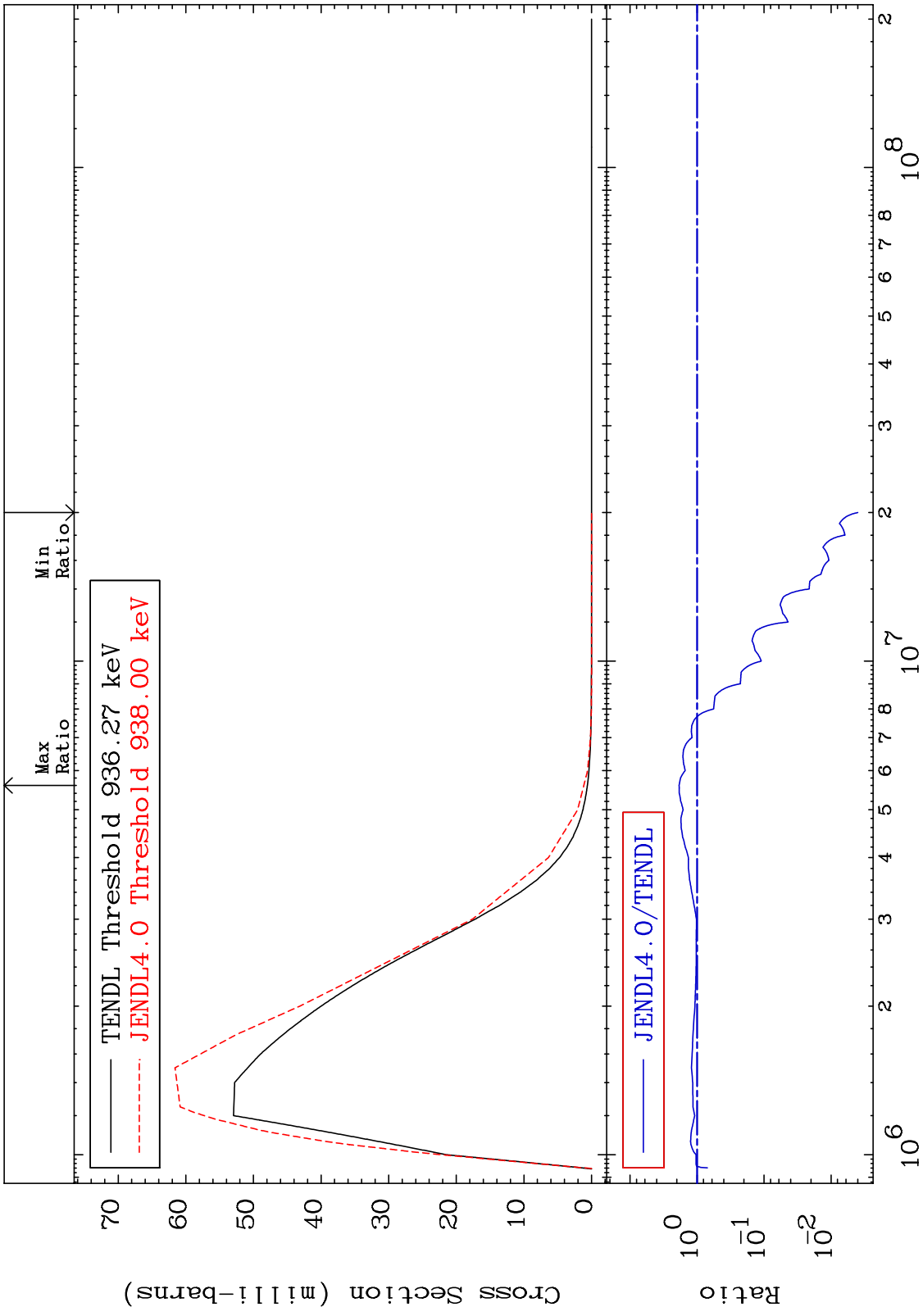


MAT 4440      MT= 69 (n,n') Level Cross Section      44-Ru-101  
 -99.59 To 164.6 %

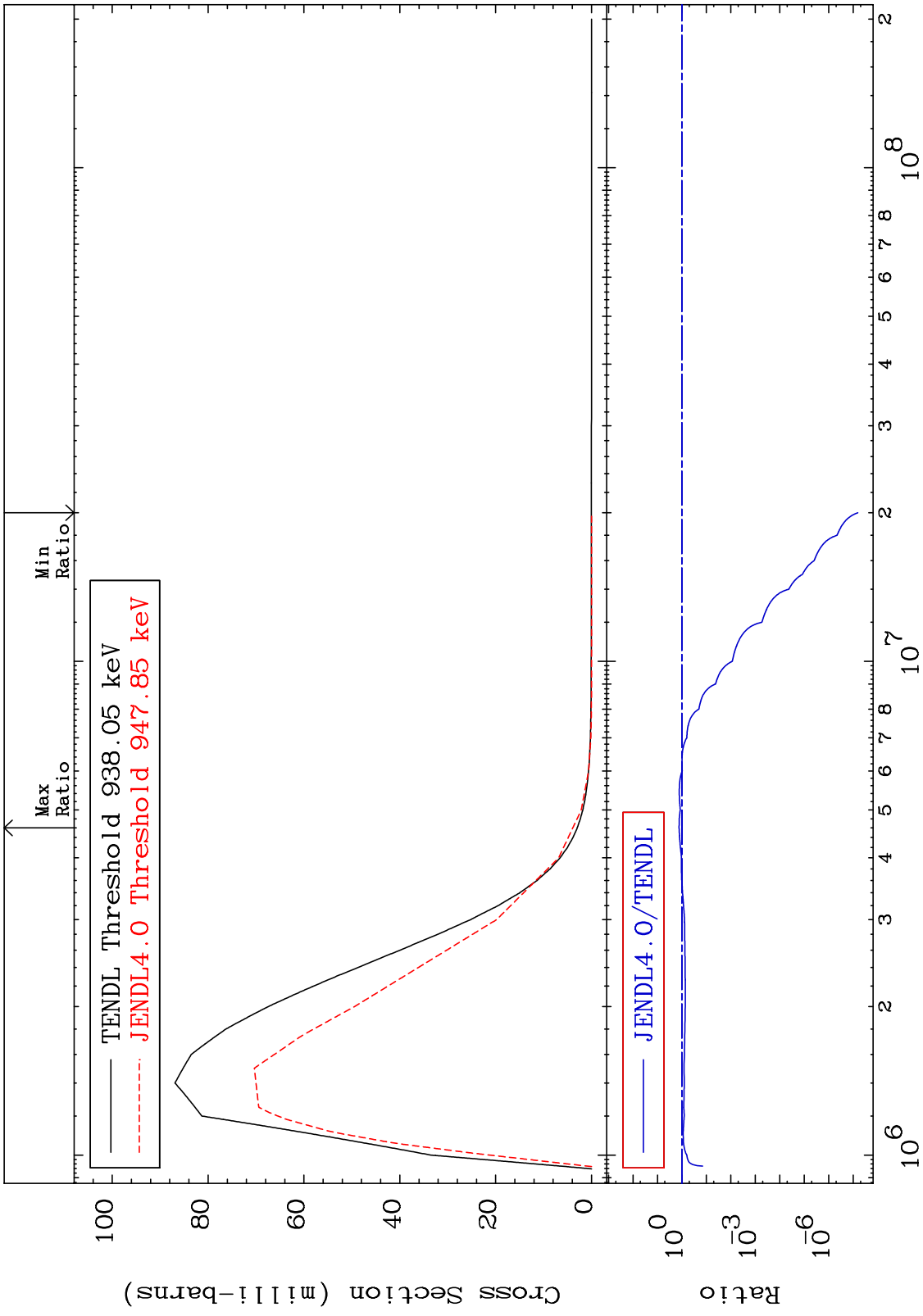


Incident Energy (eV)      44-Ru-101

MAT 4440 MT= 70 (n,n') Level Cross Section 44-Ru-101 -99.60 To 85.68 %

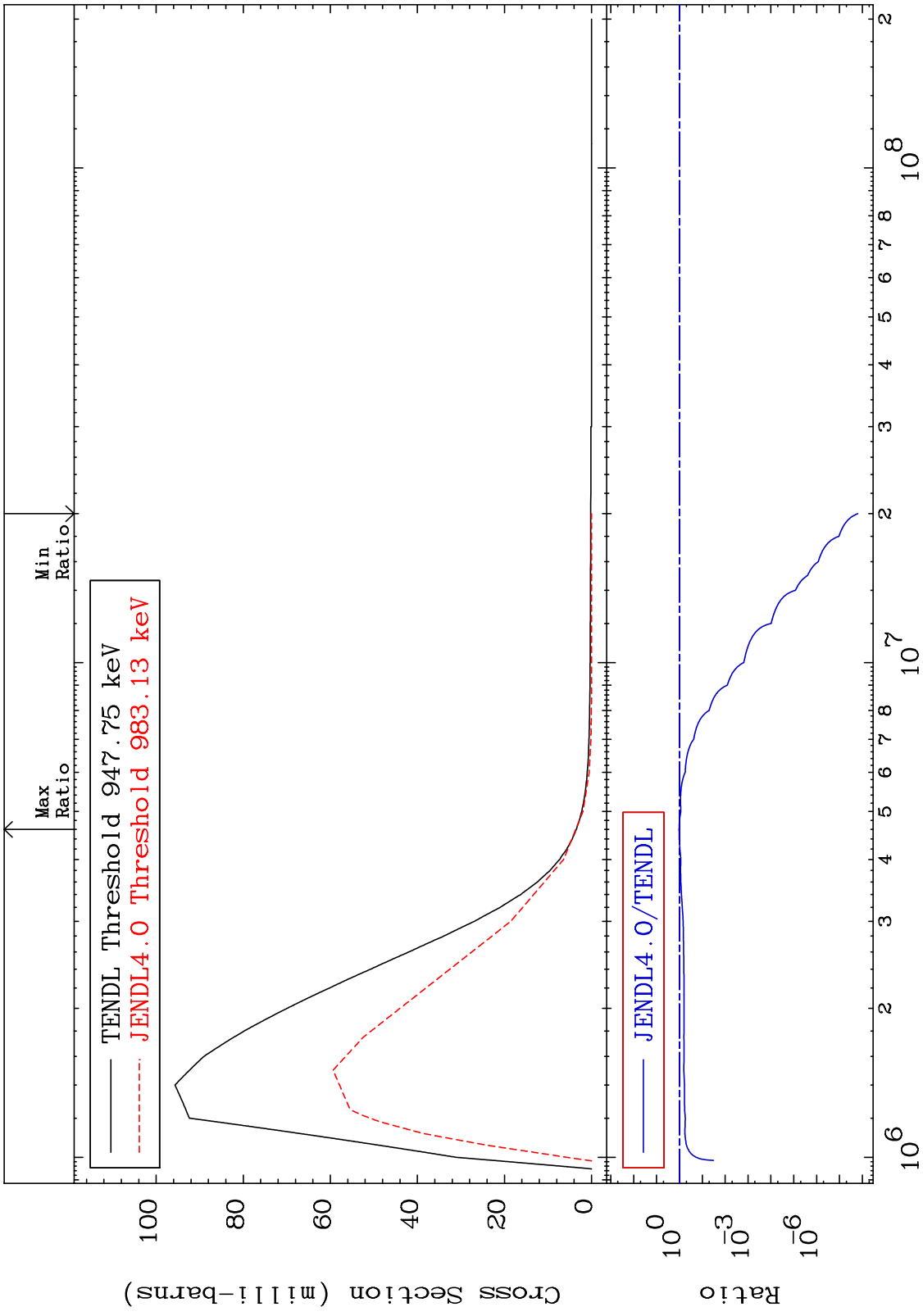


MAT 4440 MT= 71 (n,n') Level Cross Section 44-Ru-101  
 -100.0 To 31.14 %



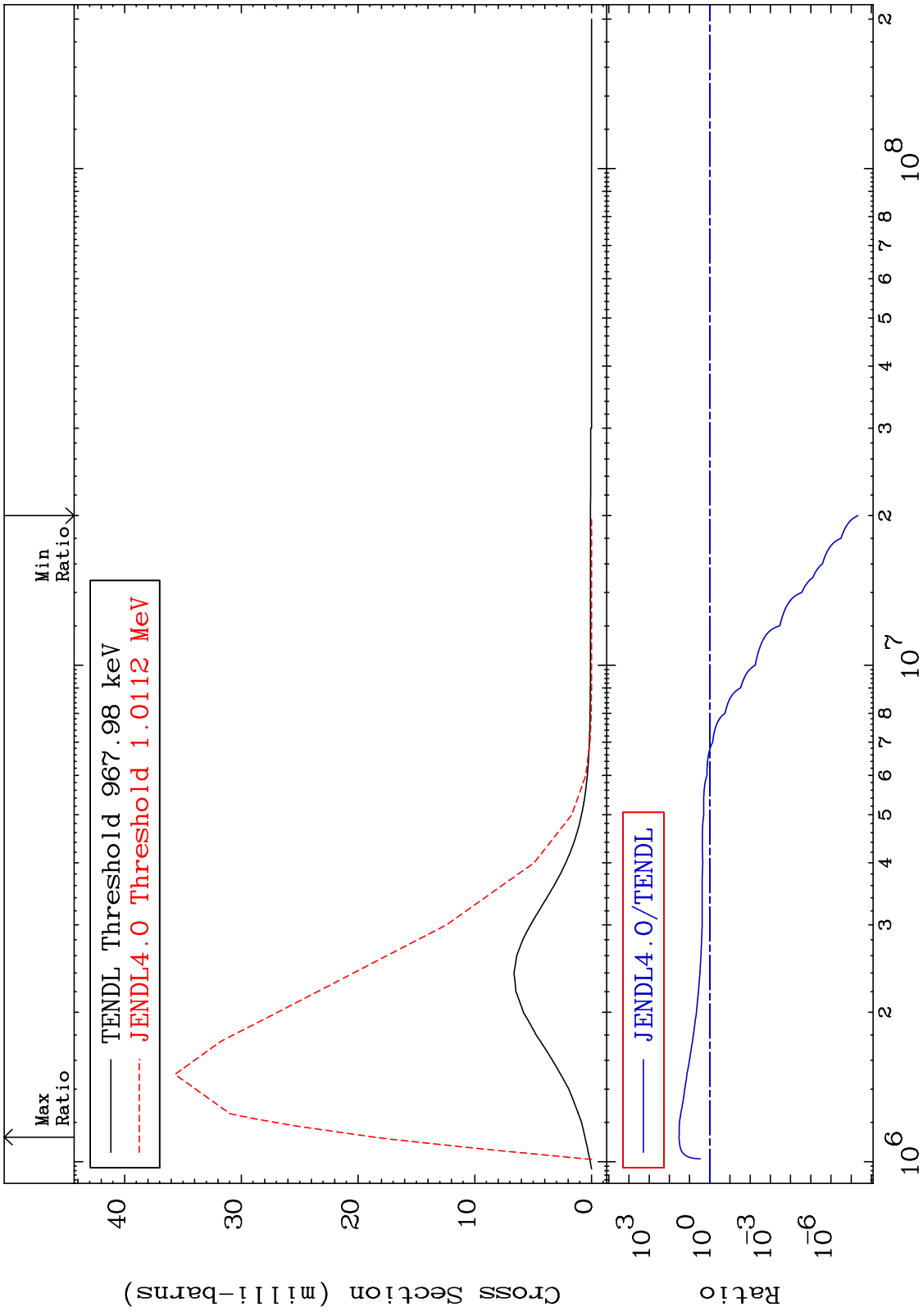
29 44-Ru-101

MAT 4440 MT= 72 (n,n') Level Cross Section 44-Ru-101 -100.0 To 3.910 %



44-Ru-101

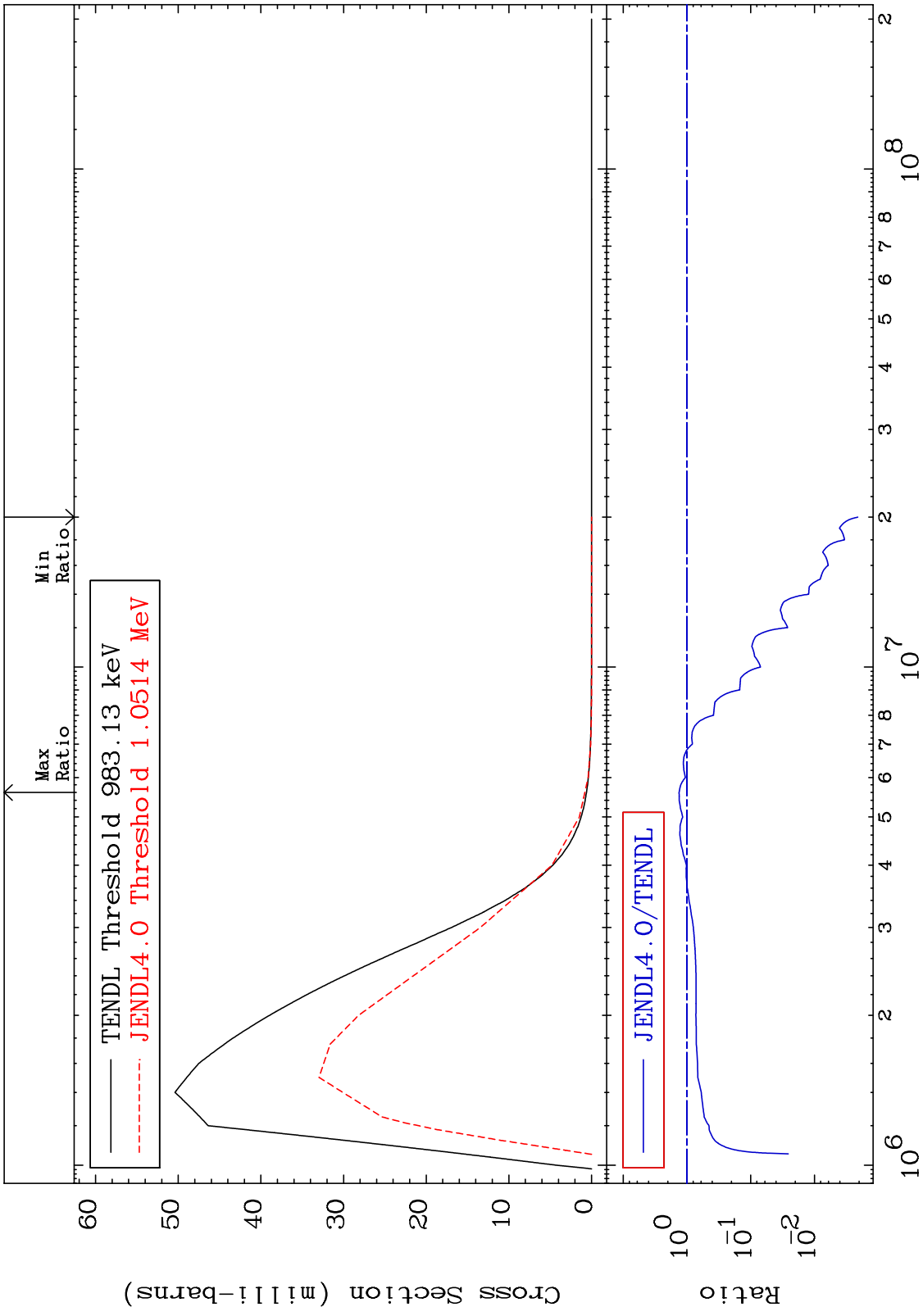
MAT 4440 MT= 73 (n,n') Level Cross Section 44-Ru-101  
 -100.0 To 3221. %



31 44-Ru-101

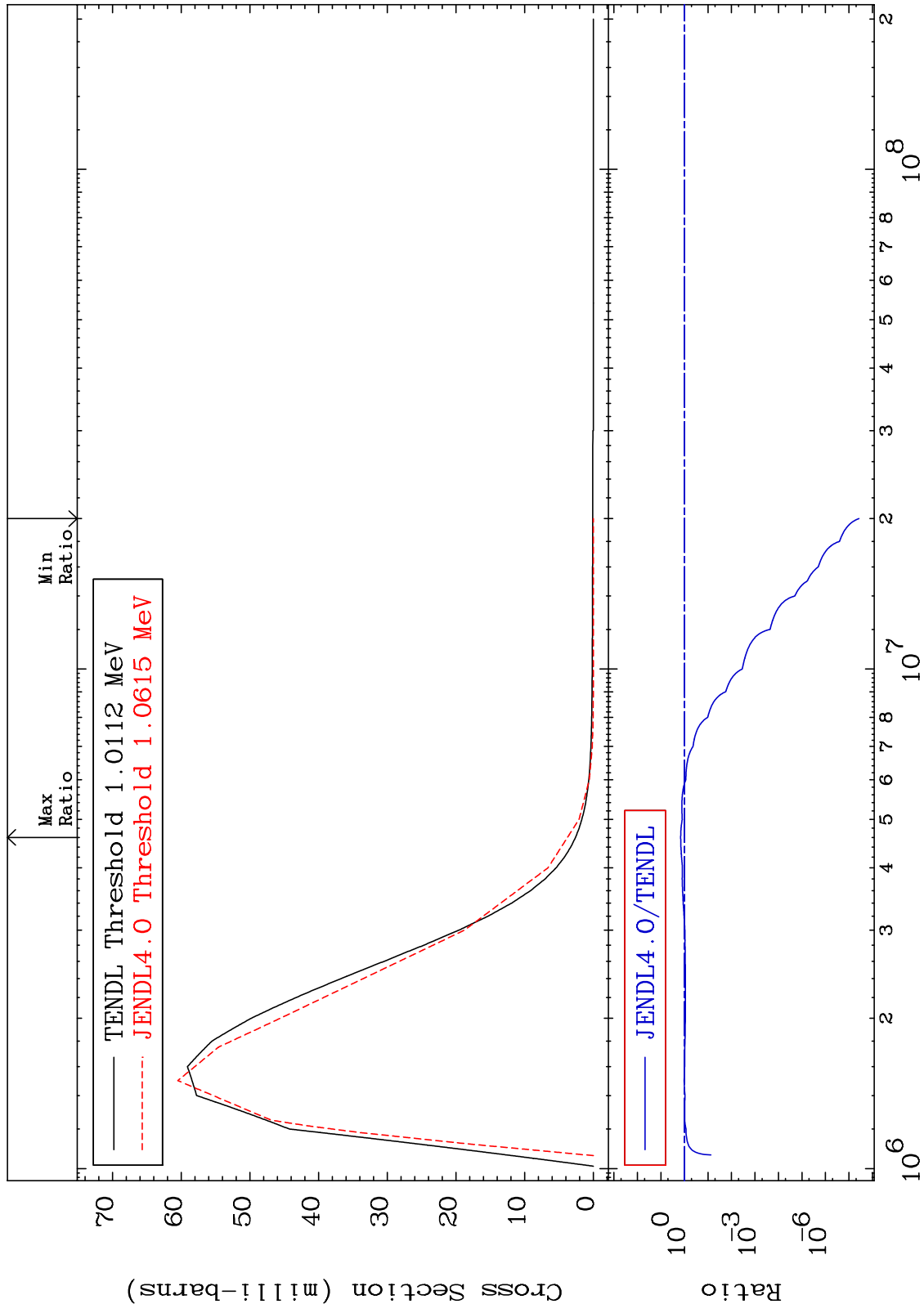


MAT 4440 MT= 74 (n,n') Level Cross Section 44-Ru-101 -99.79 To 32.90 %

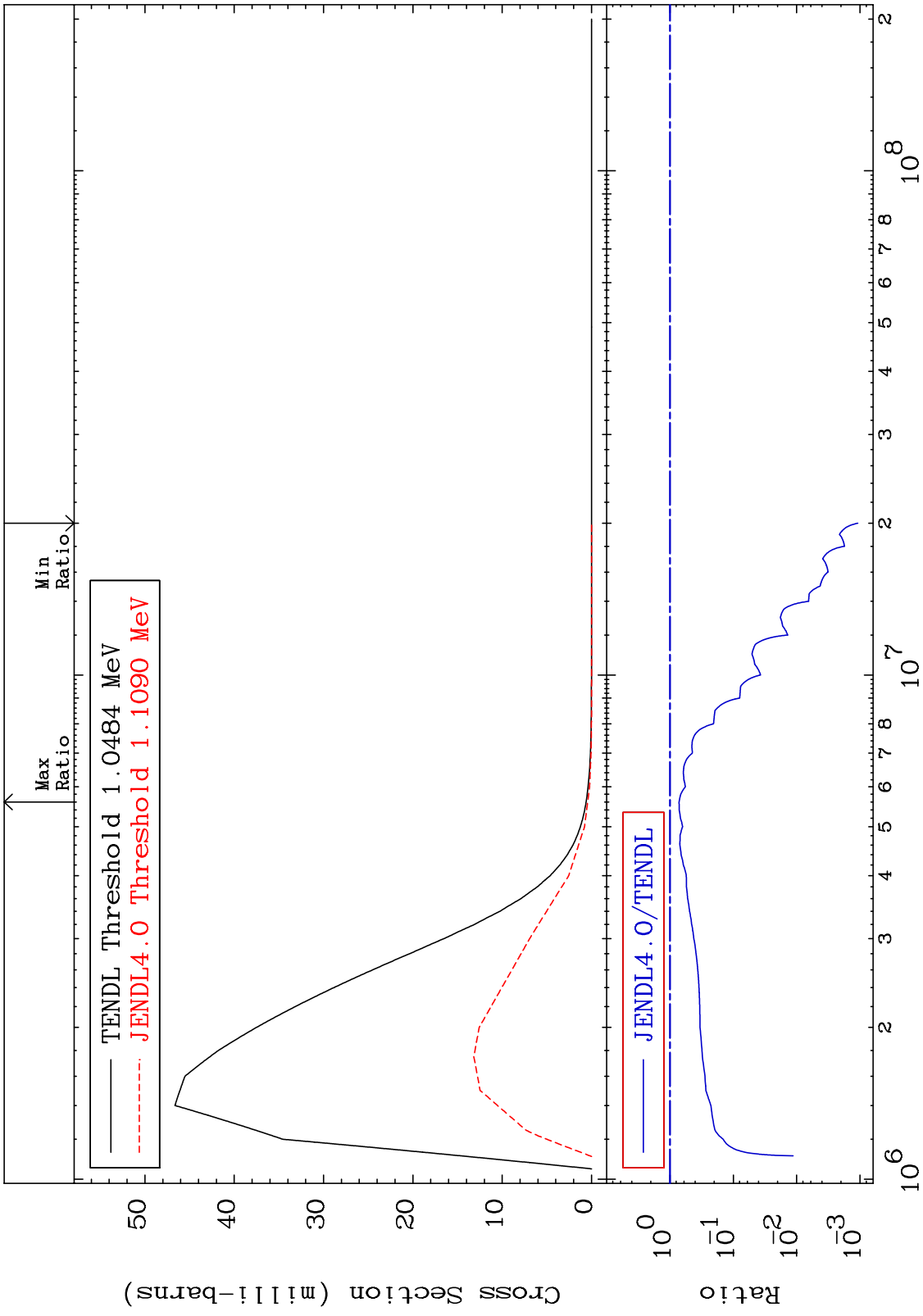


32 44-Ru-101

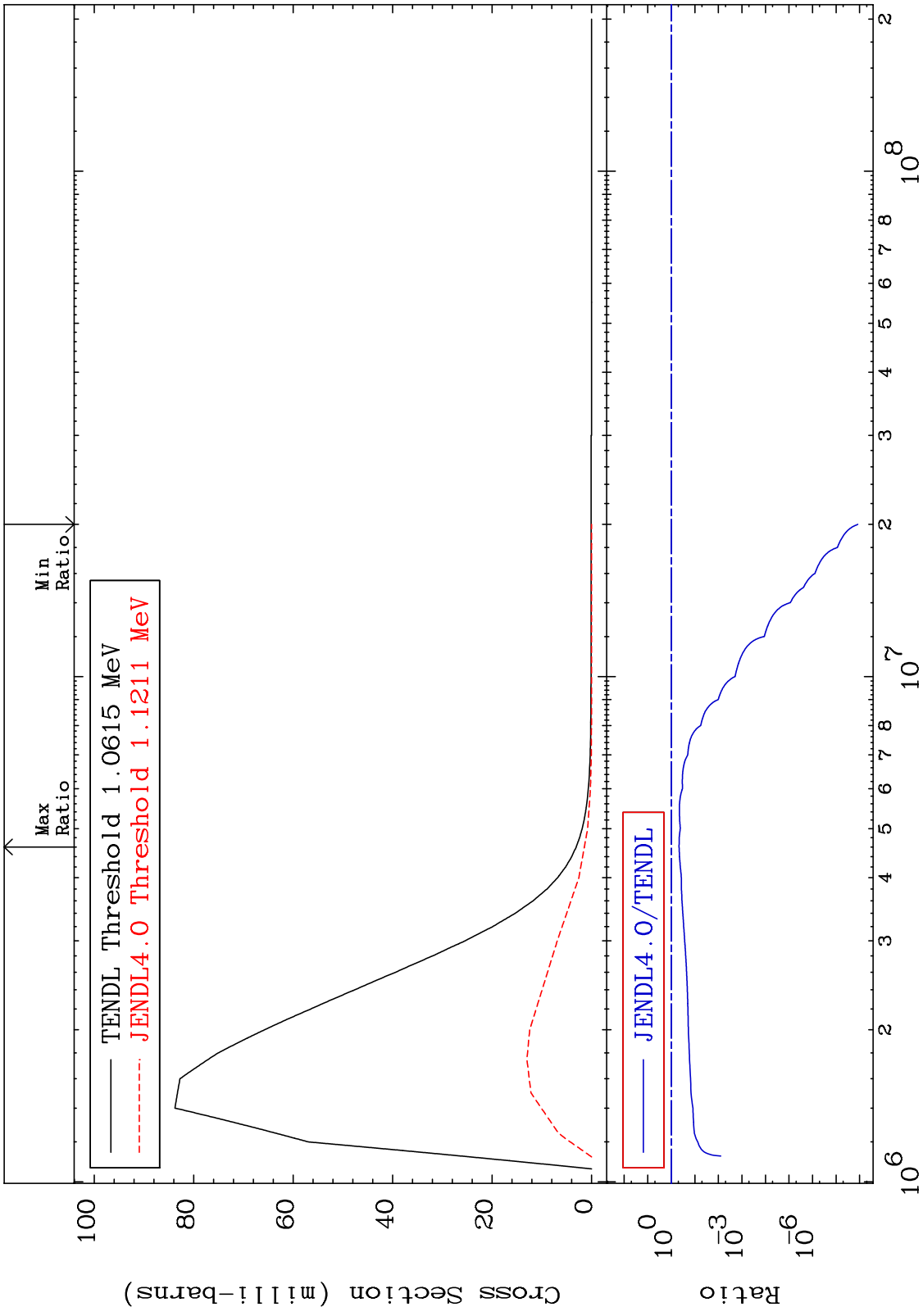
MAT 4440                      MT= 75 (n,n') Level Cross Section                      44-Ru-101  
 -100.0 To 45.23 %



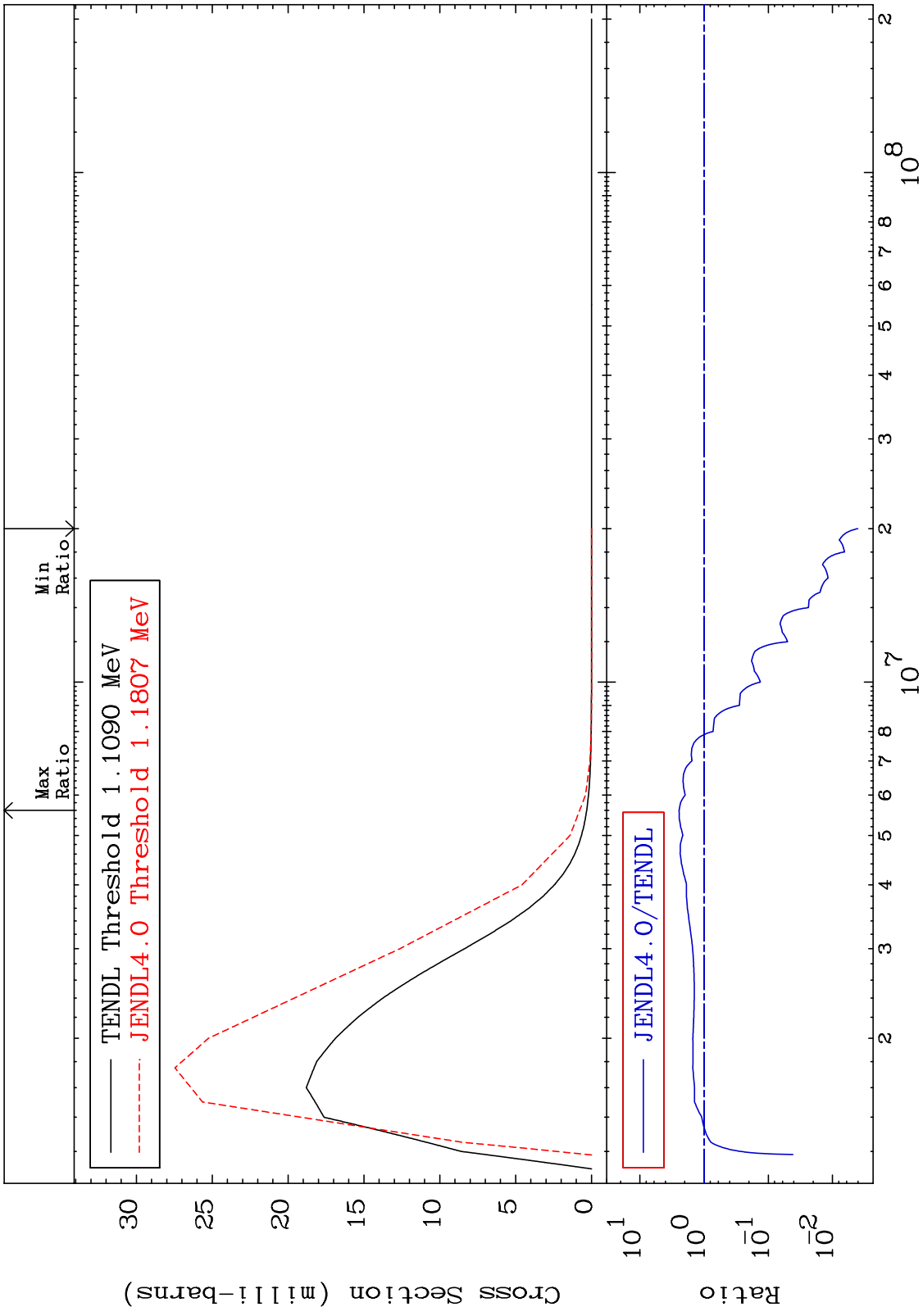
MAT 4440 MT= 76 (n,n') Level Cross Section 44-Ru-101 -99.89 To -28.21%



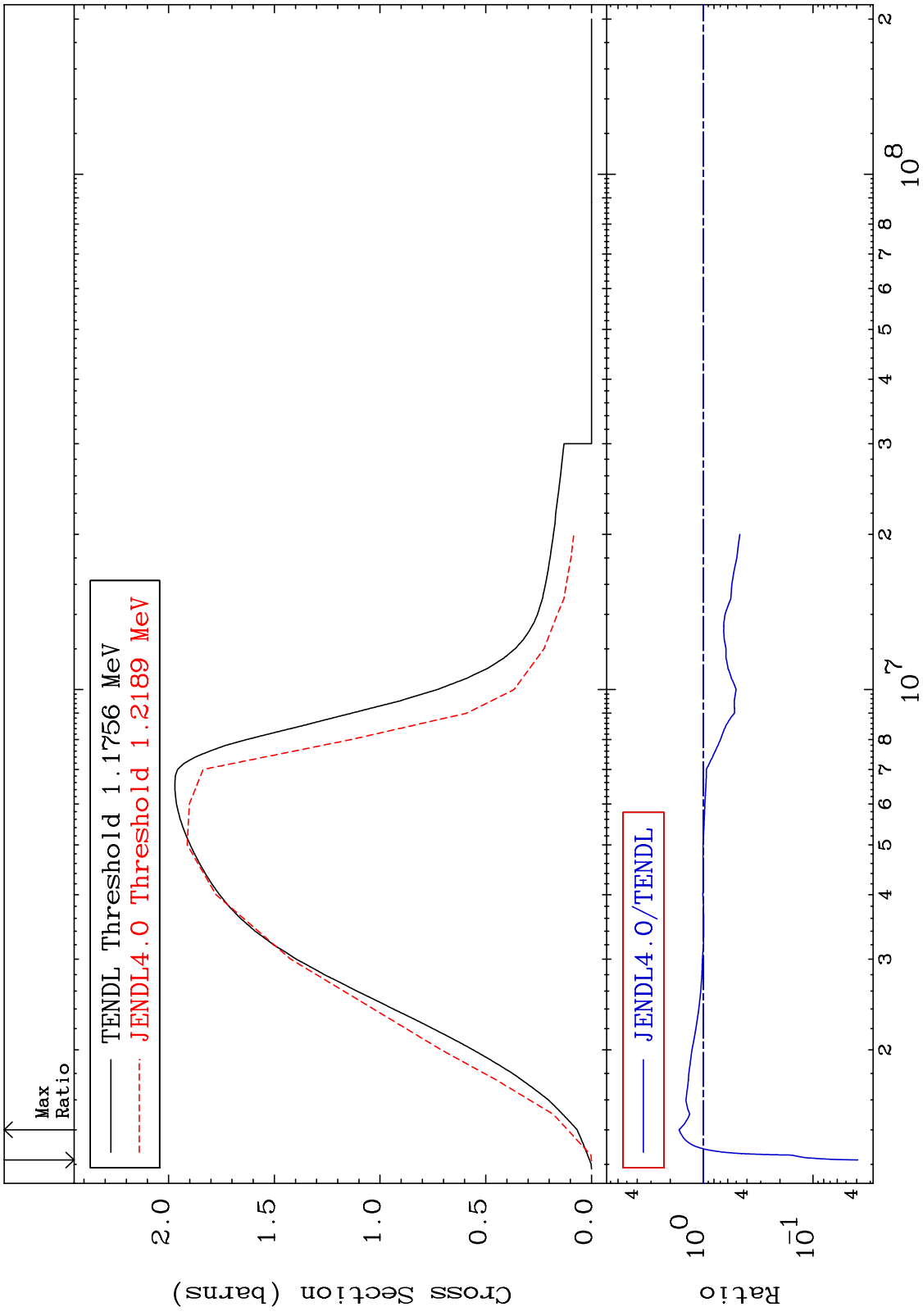
MAT 4440      MT= 77 (n,n') Level Cross Section      44-Ru-101  
 -100.0 To -53.19%



MAT 4440 MT= 78 (n,n') Level Cross Section 44-Ru-101 -99.60 To 145.4 %



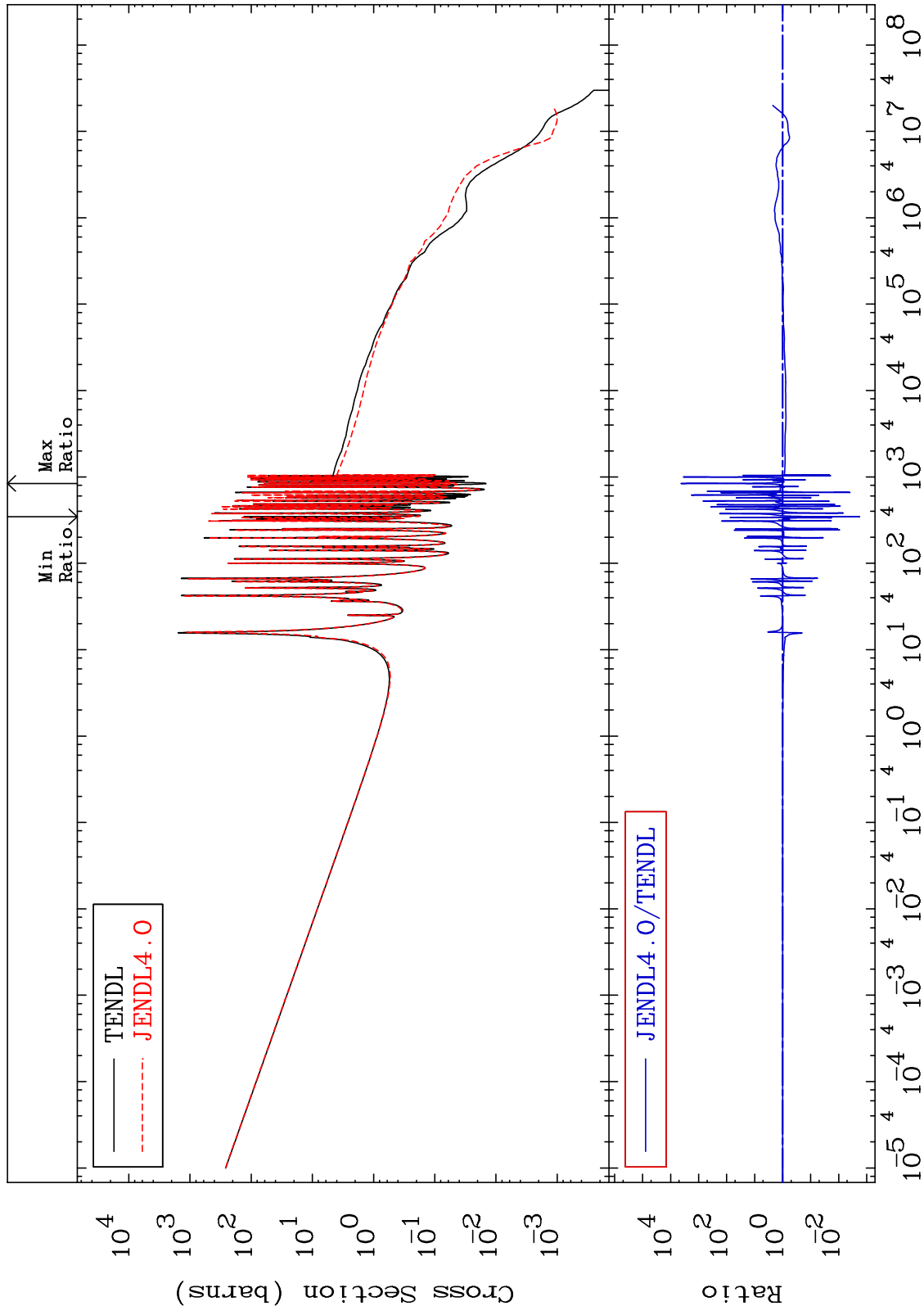
MAT 4440 (n, n') Continuum Cross Section 44-Ru-101 -96.10 To 66.46 %



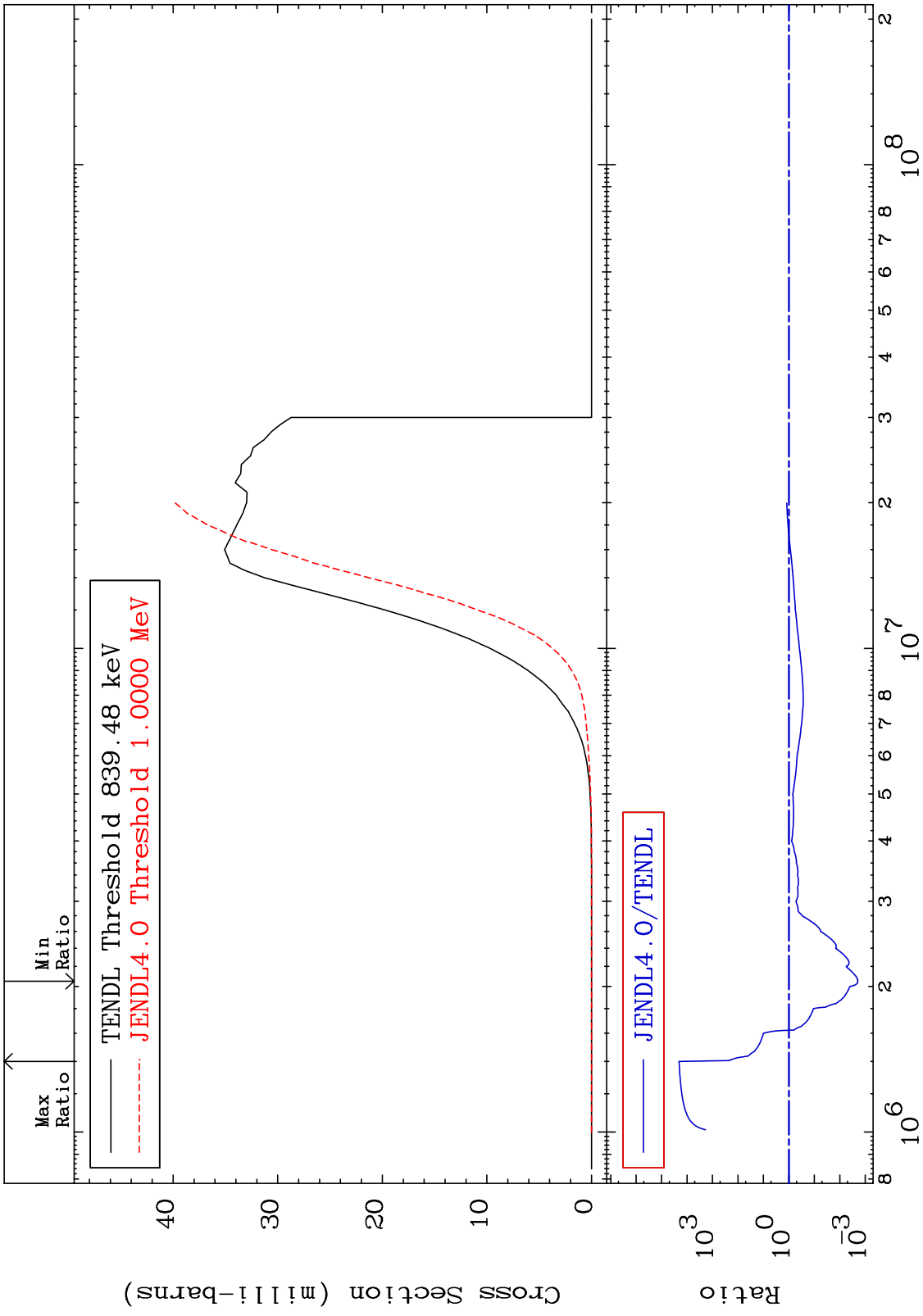
MAT 4440

(n,  $\gamma$ )  
Cross Section

44-Ru-101  
-99.82 To 9999. %

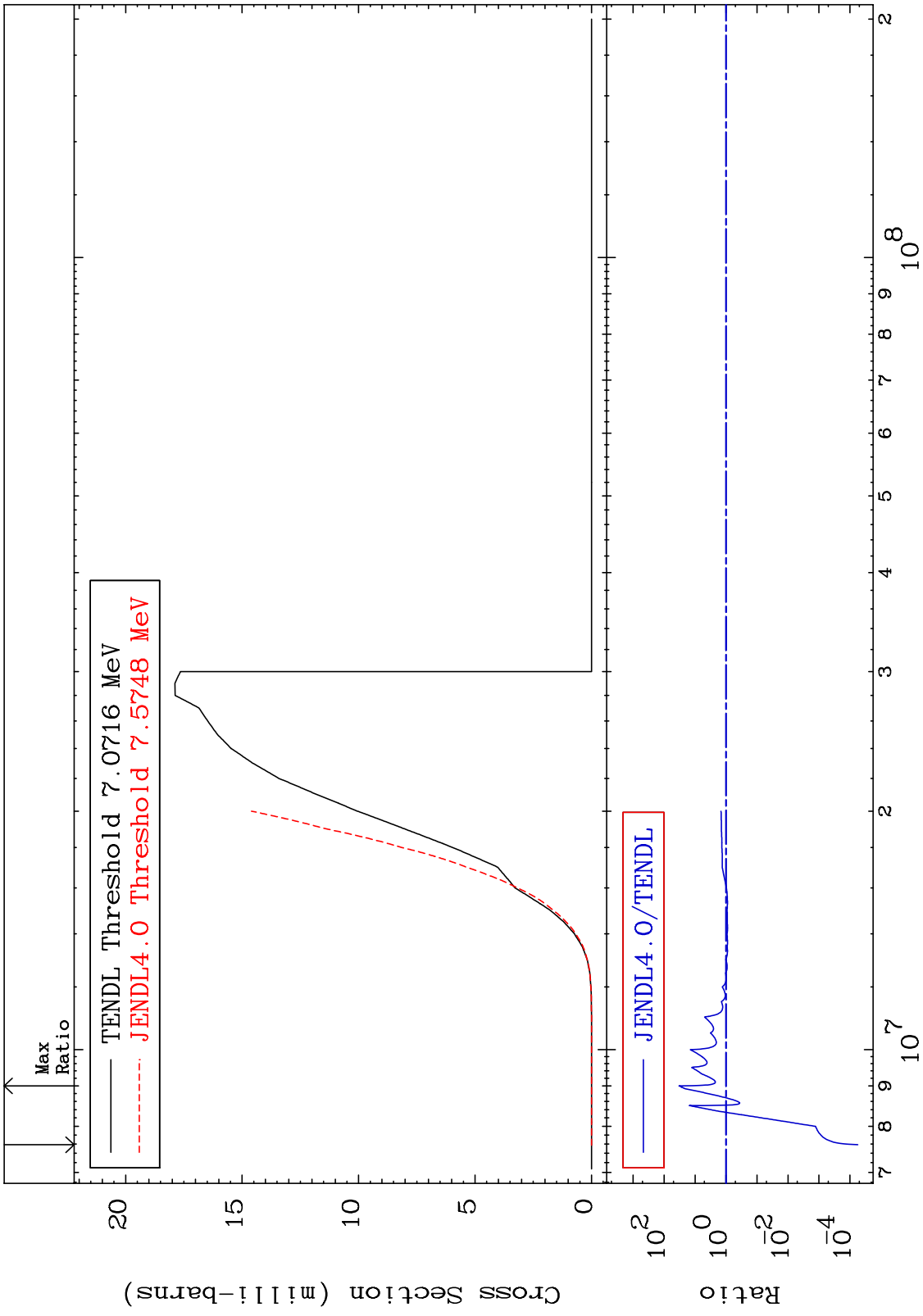


MAT 4440 (n,p) Cross Section 44-Ru-101 -99.81 To 9999. %



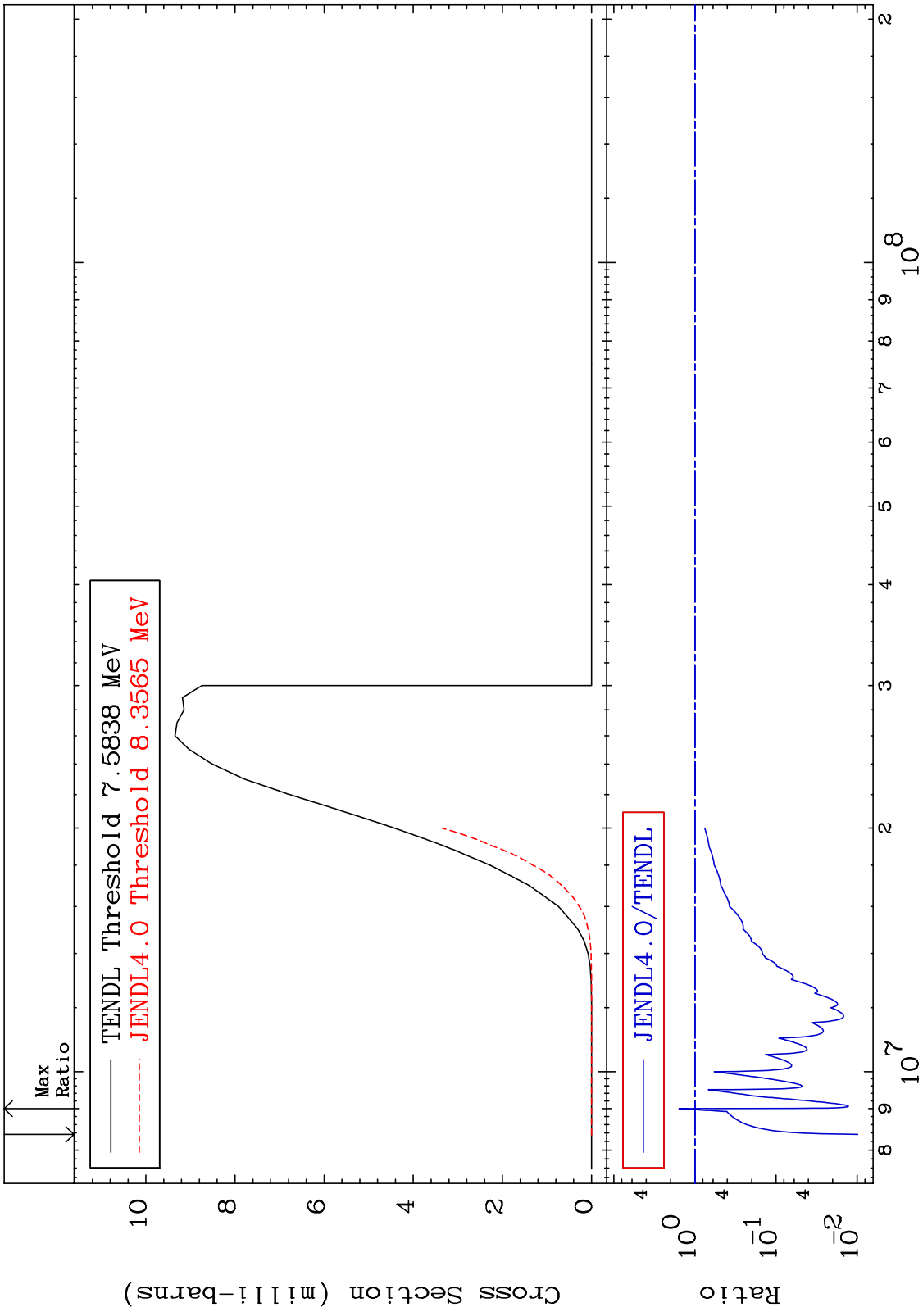


MAT 4440 (n,d) Cross Section 44-Ru-101 -99.99 To 3195. %

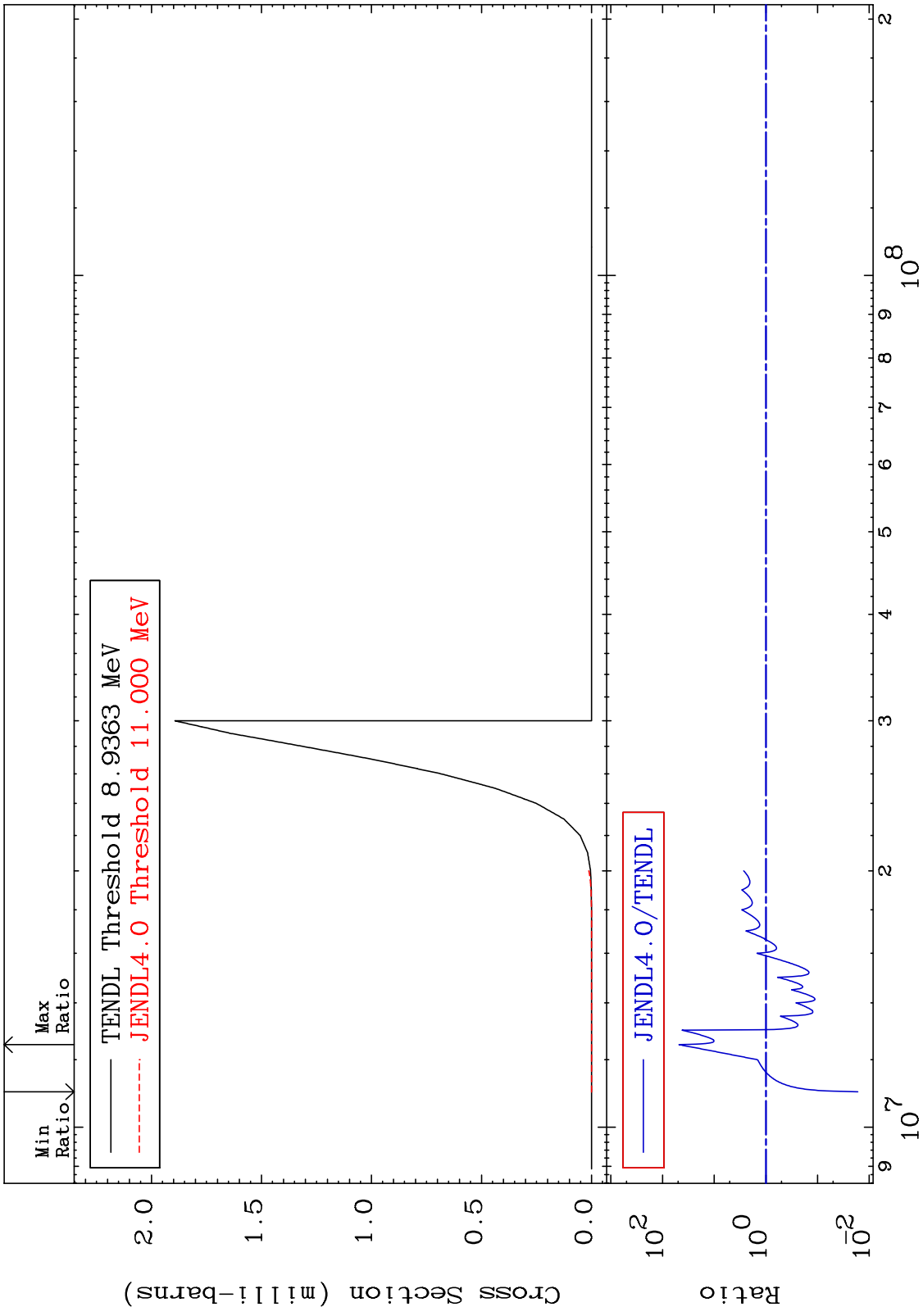


40 44-Ru-101

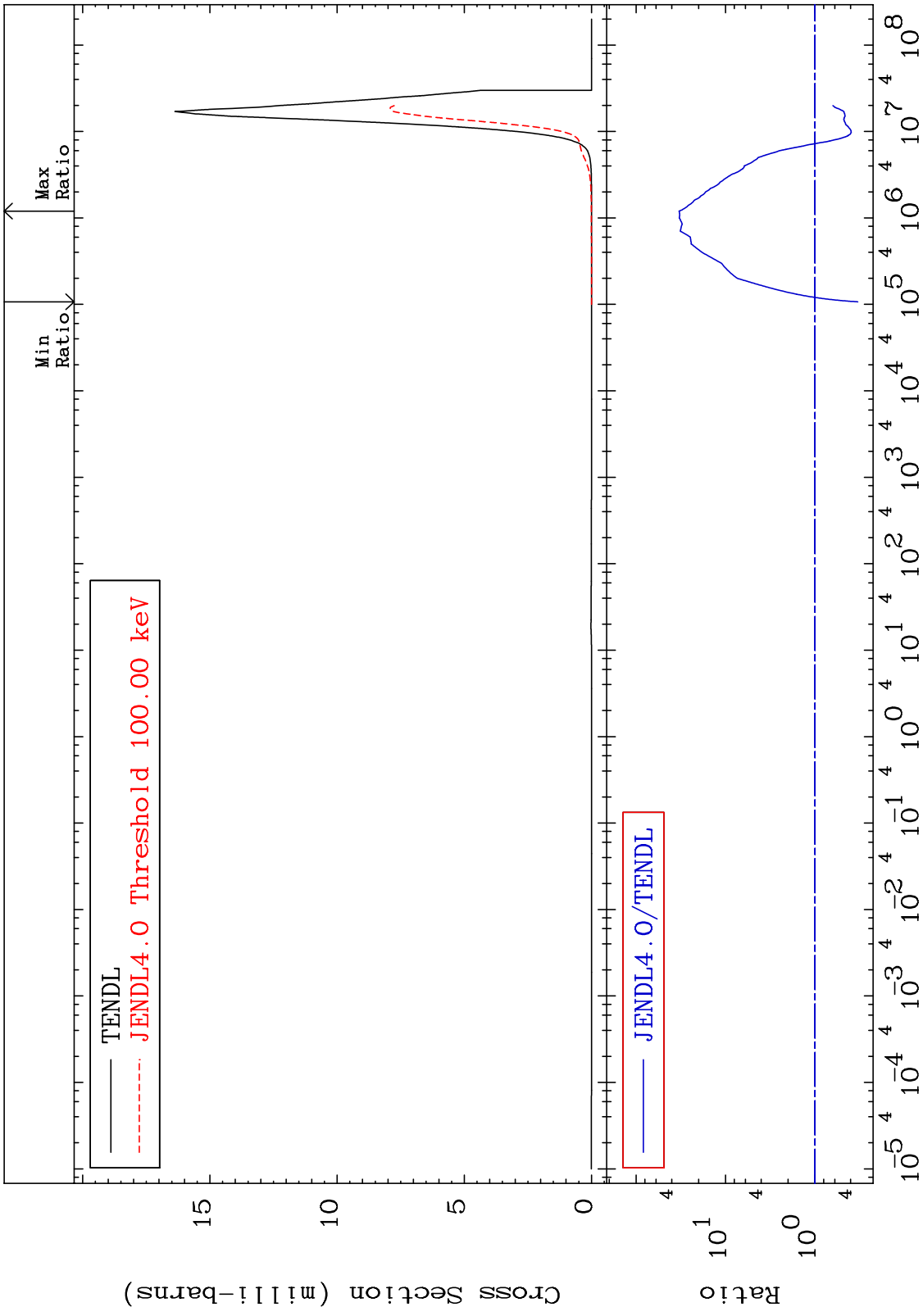
MAT 4440 (n,t) 44-Ru-101  
 Cross Section -99.02 To 57.33 %



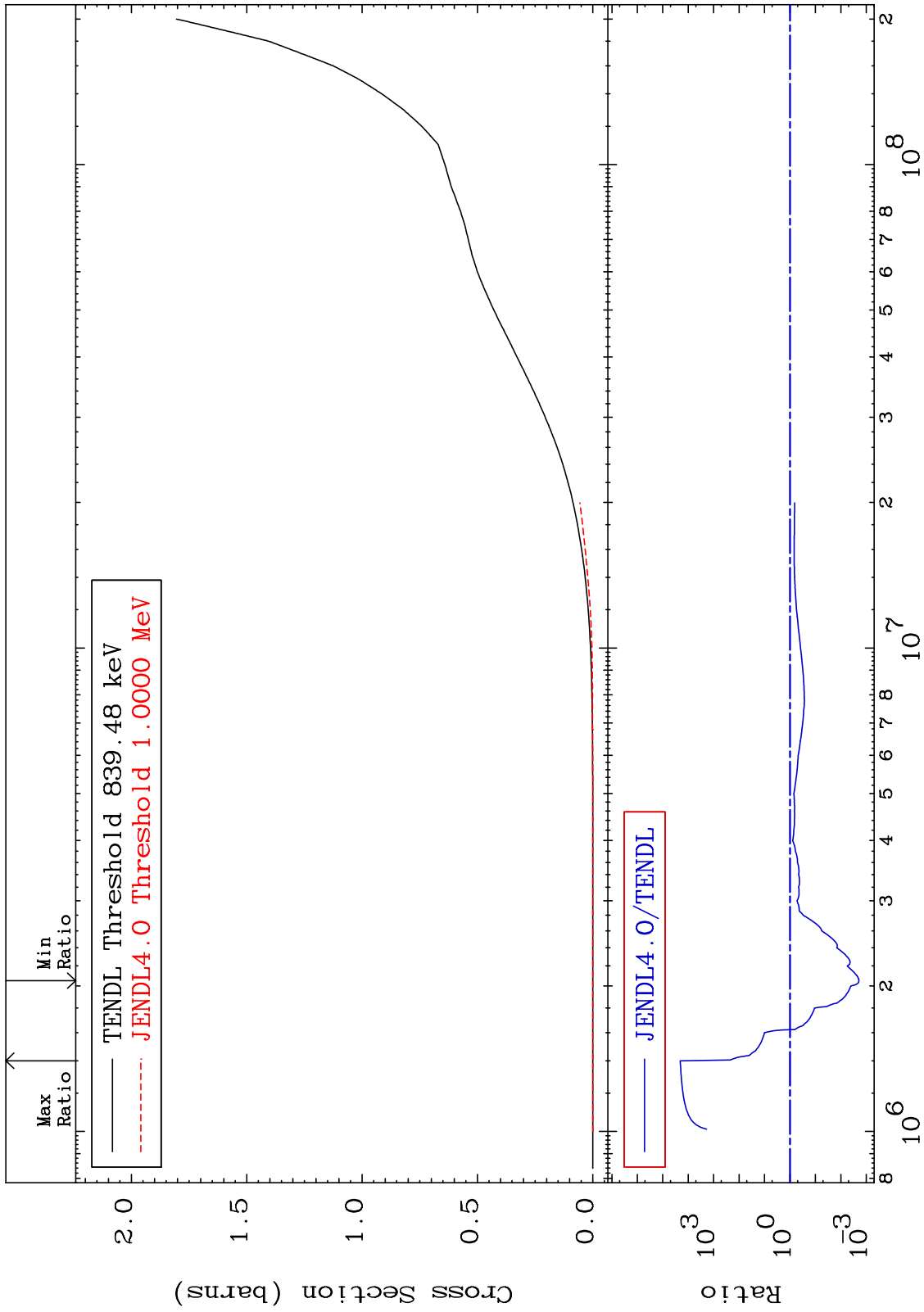
41 44-Ru-101 Incident Energy (eV)



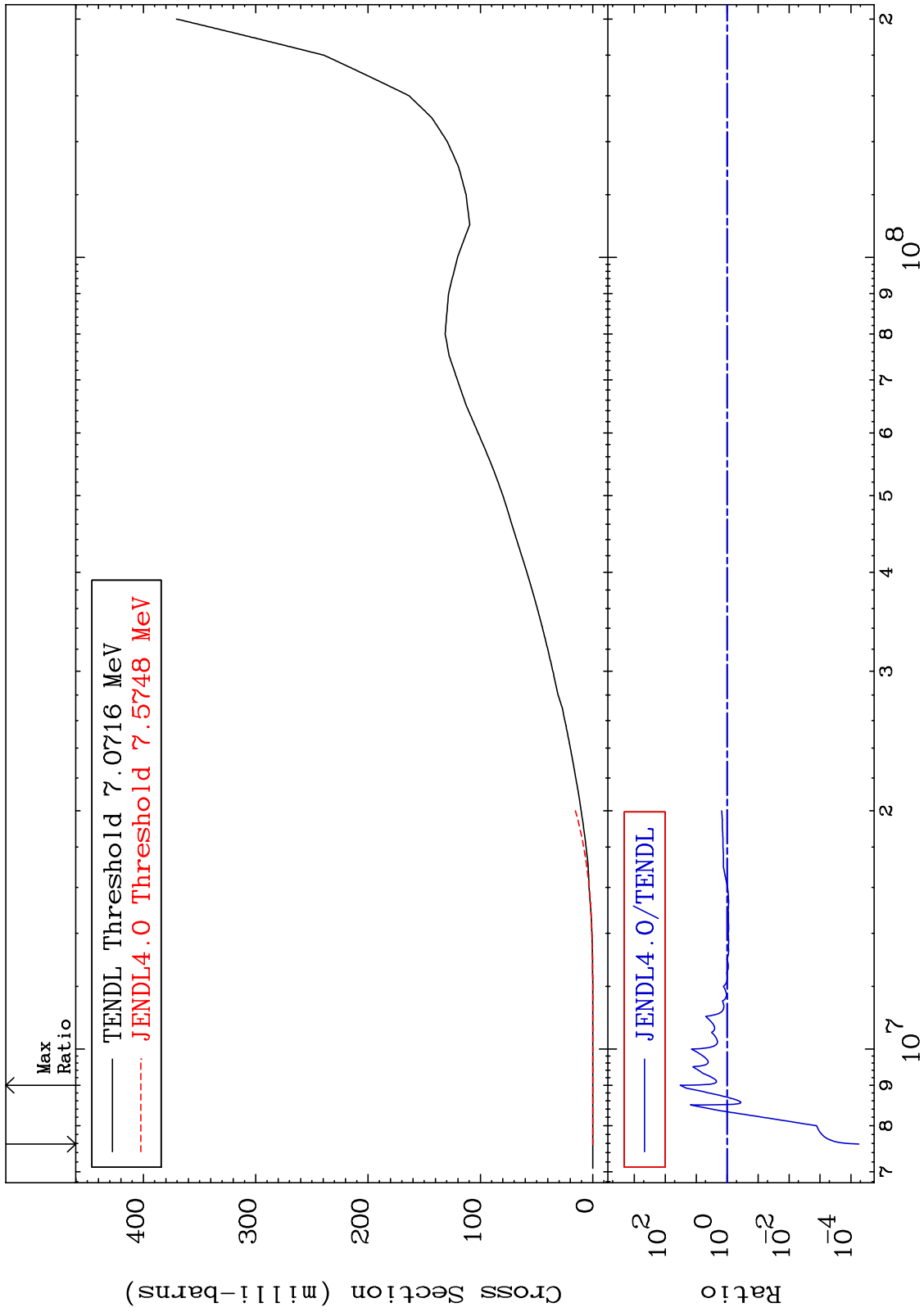
MAT 4440 (n,α) Cross Section 44-Ru-101 -66.76 To 3214. %



44-Ru-101 Incident Energy (eV) 43

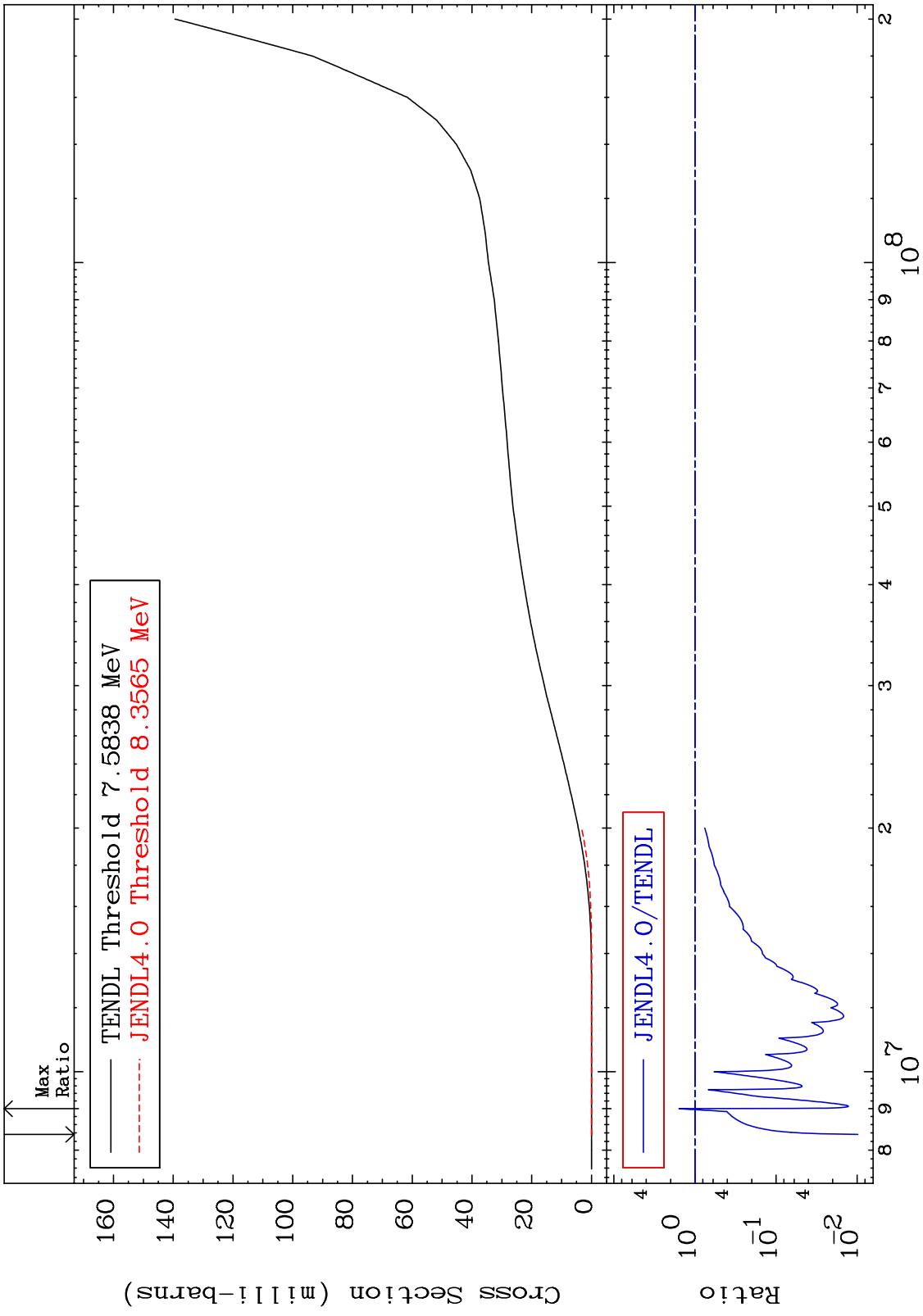


MAT 4440 Deuterium Production Cross Section 44-Ru-101 -99.99 To 3195. %



45 44-Ru-101 Incident Energy (eV)

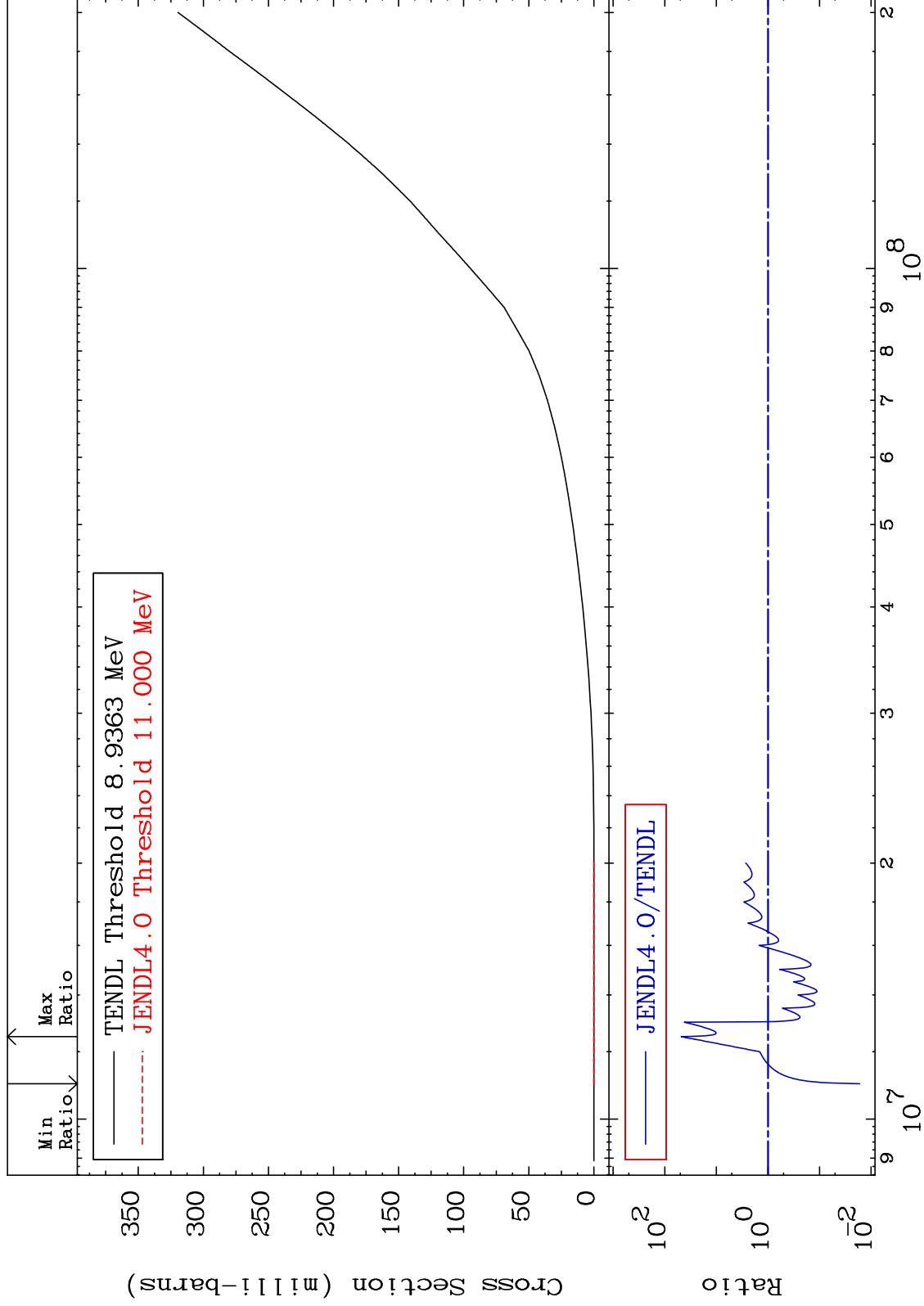
MAT 4440 Tritium Production Cross Section 44-Ru-101 -99.02 To 57.33 %



MAT 4440

He-3 Production  
Cross Section

44-Ru-101  
-98.34 To 4691. %



47

Incident Energy (eV)

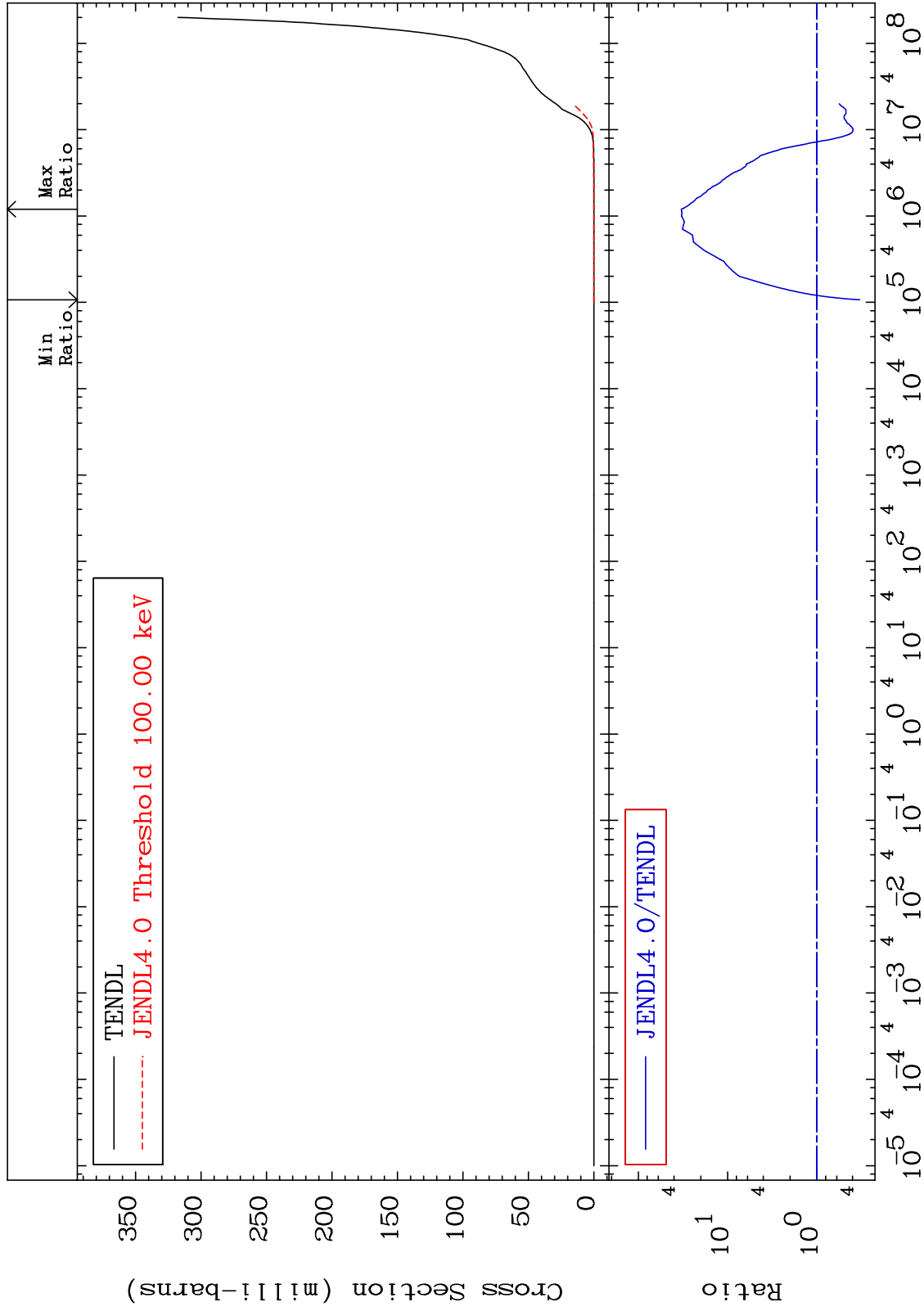
44-Ru-101



MAT 4440

He-4 Production  
Cross Section

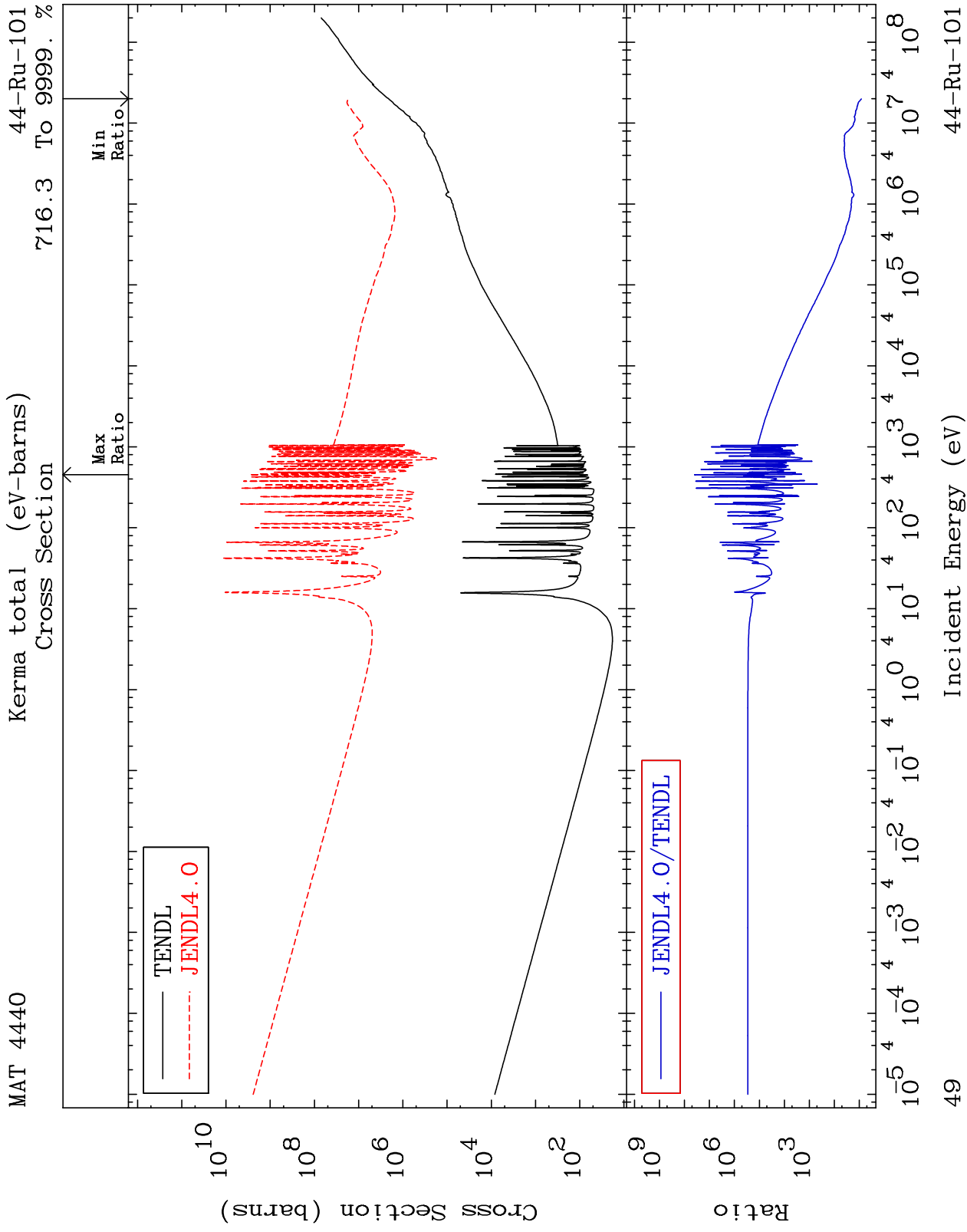
44-Ru-101  
-66.76 To 3214. %



48

Incident Energy (eV)

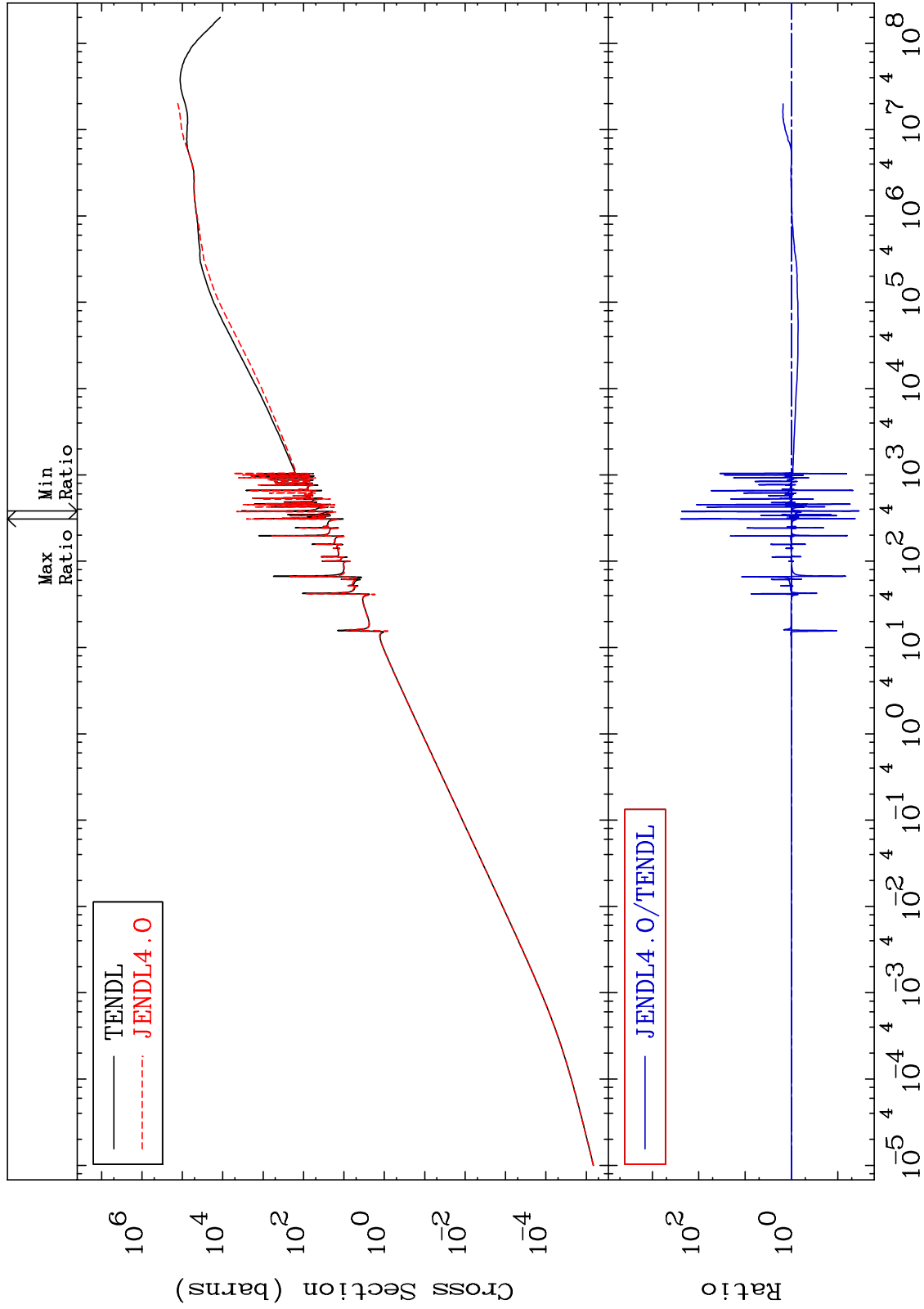
44-Ru-101

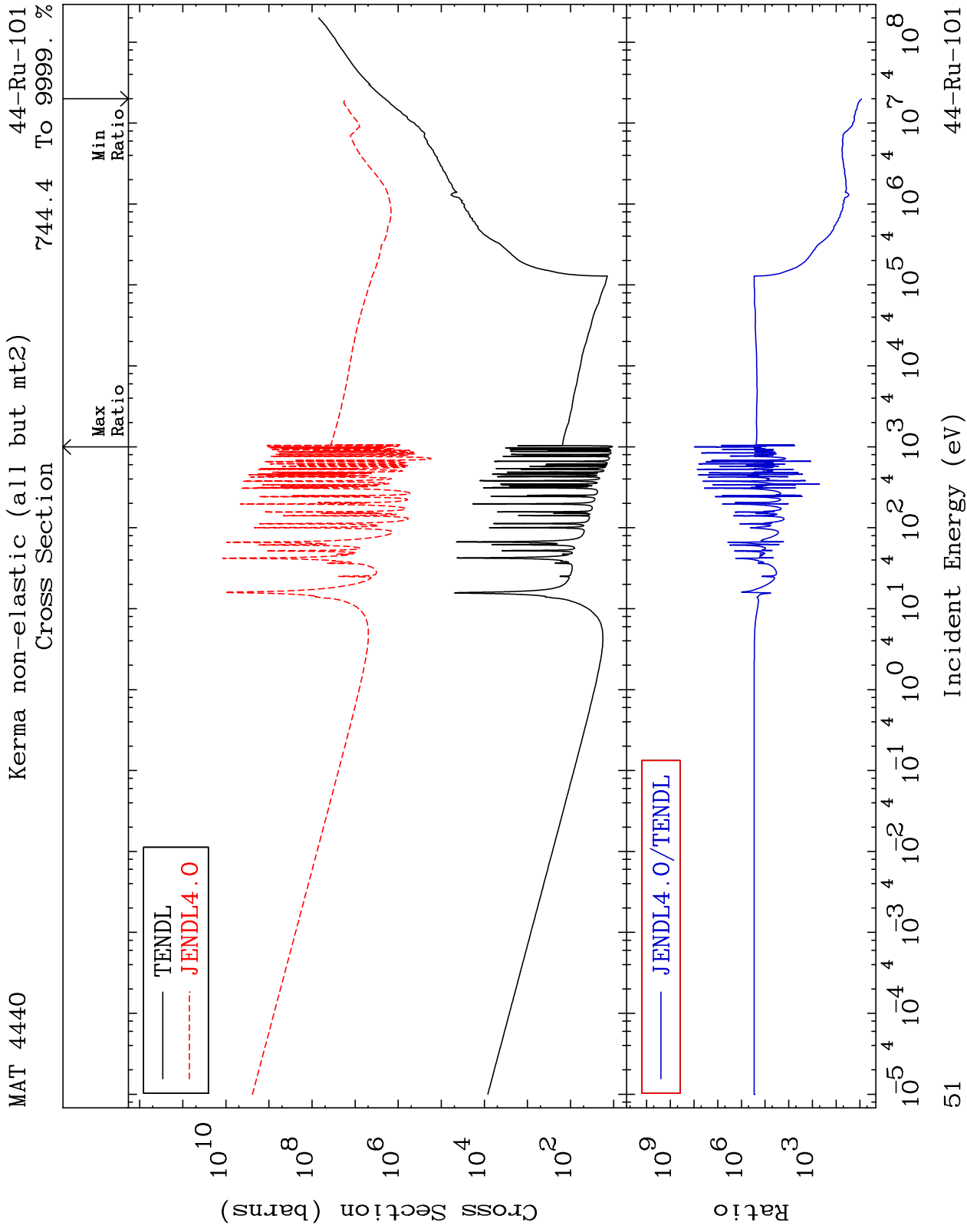


MAT 4440

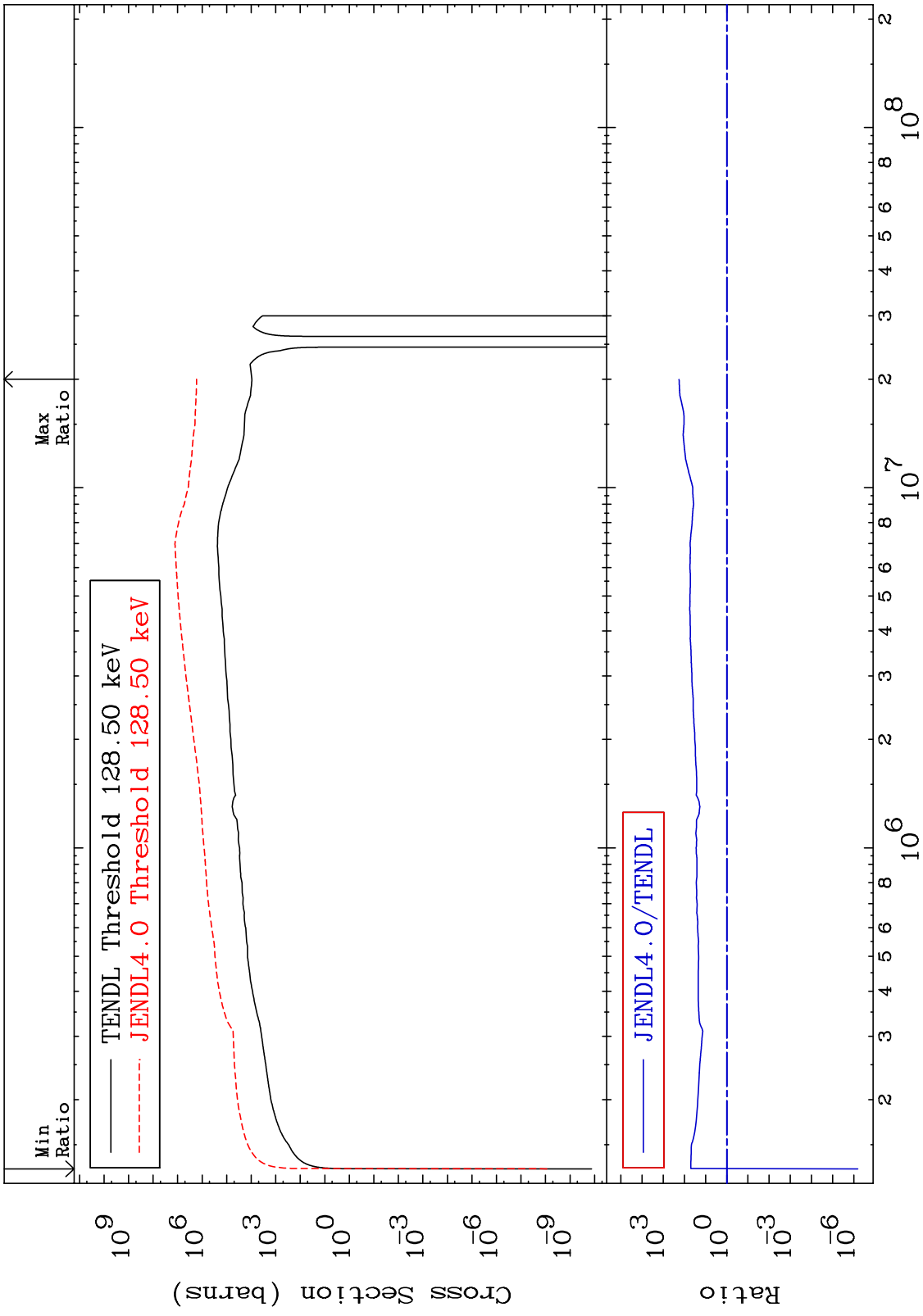
Kerma elastic  
Cross Section

44-Ru-101  
-96.51 To 9999. %





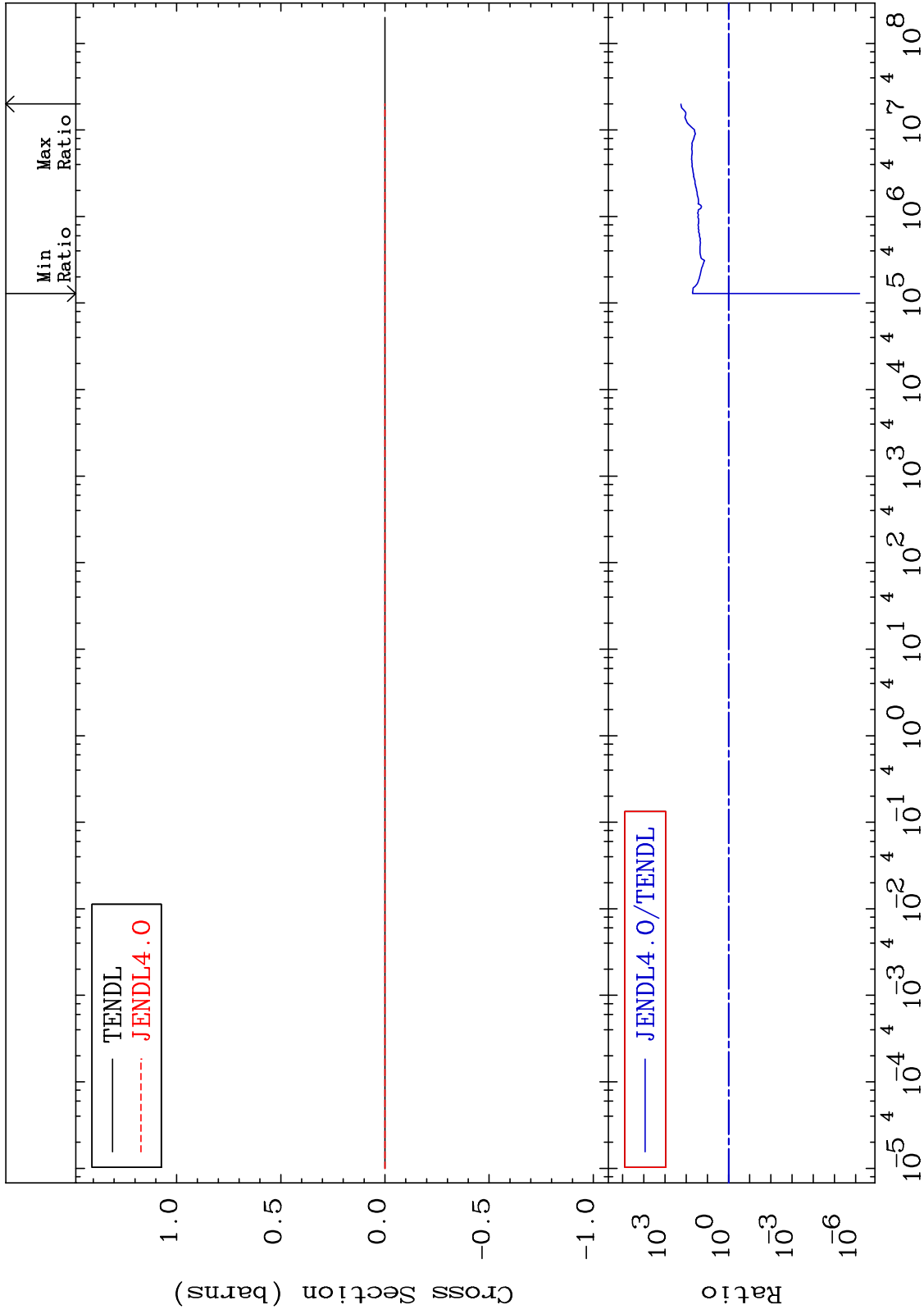
MAT 4440 Kerma inelastic (mt51-91) 44-Ru-101  
 Cross Section -100.0 To 9999. %



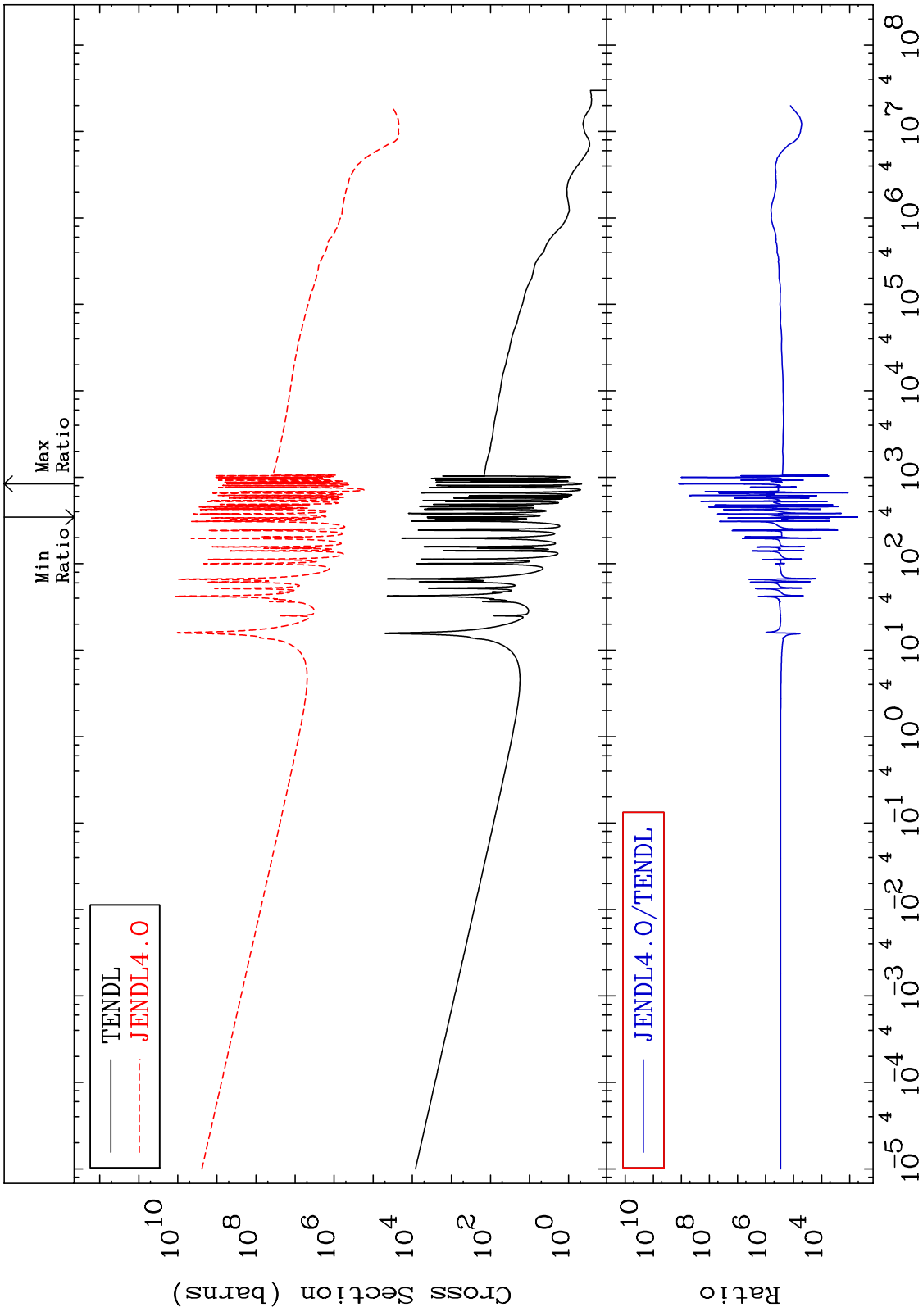
MAT 4440

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

44-Ru-101  
-100.0 To 9999. %



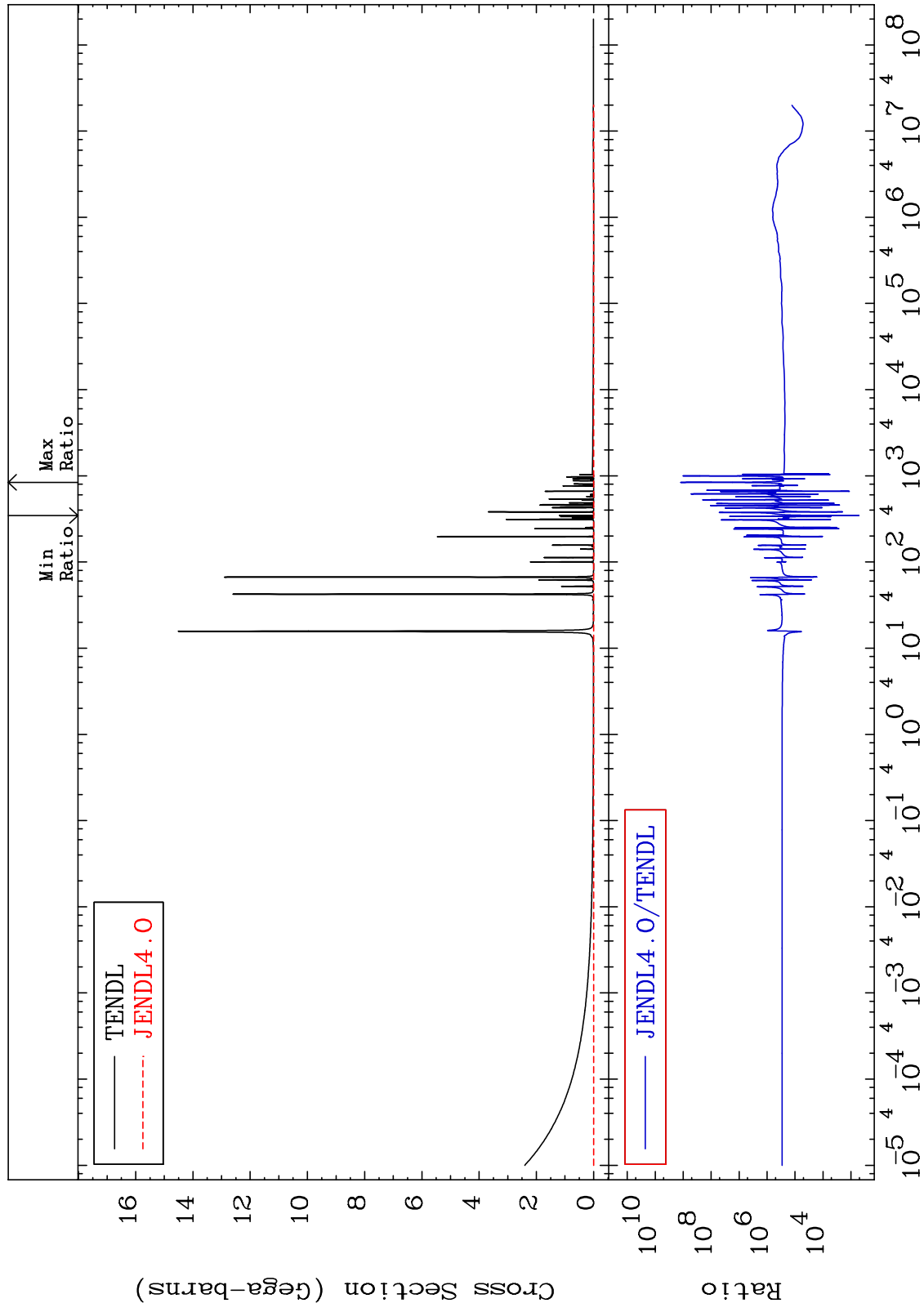
MAT 4440 Kerma capture (mt102) 44-Ru-101  
 Cross Section 9999. To 9999. %



MAT 4440

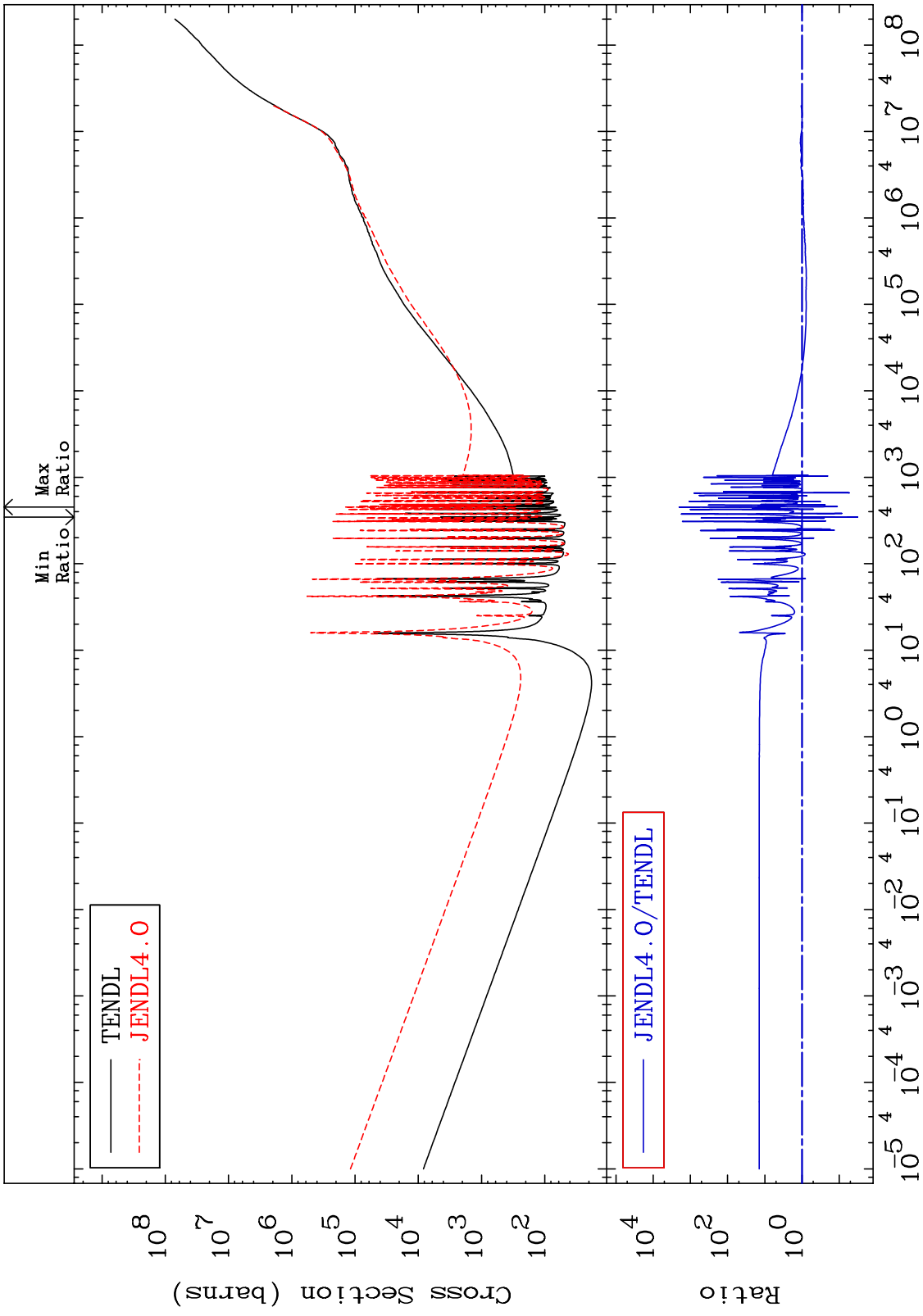
Total photon (eV-barns)  
Cross Section

44-Ru-101  
9999. To 9999. %

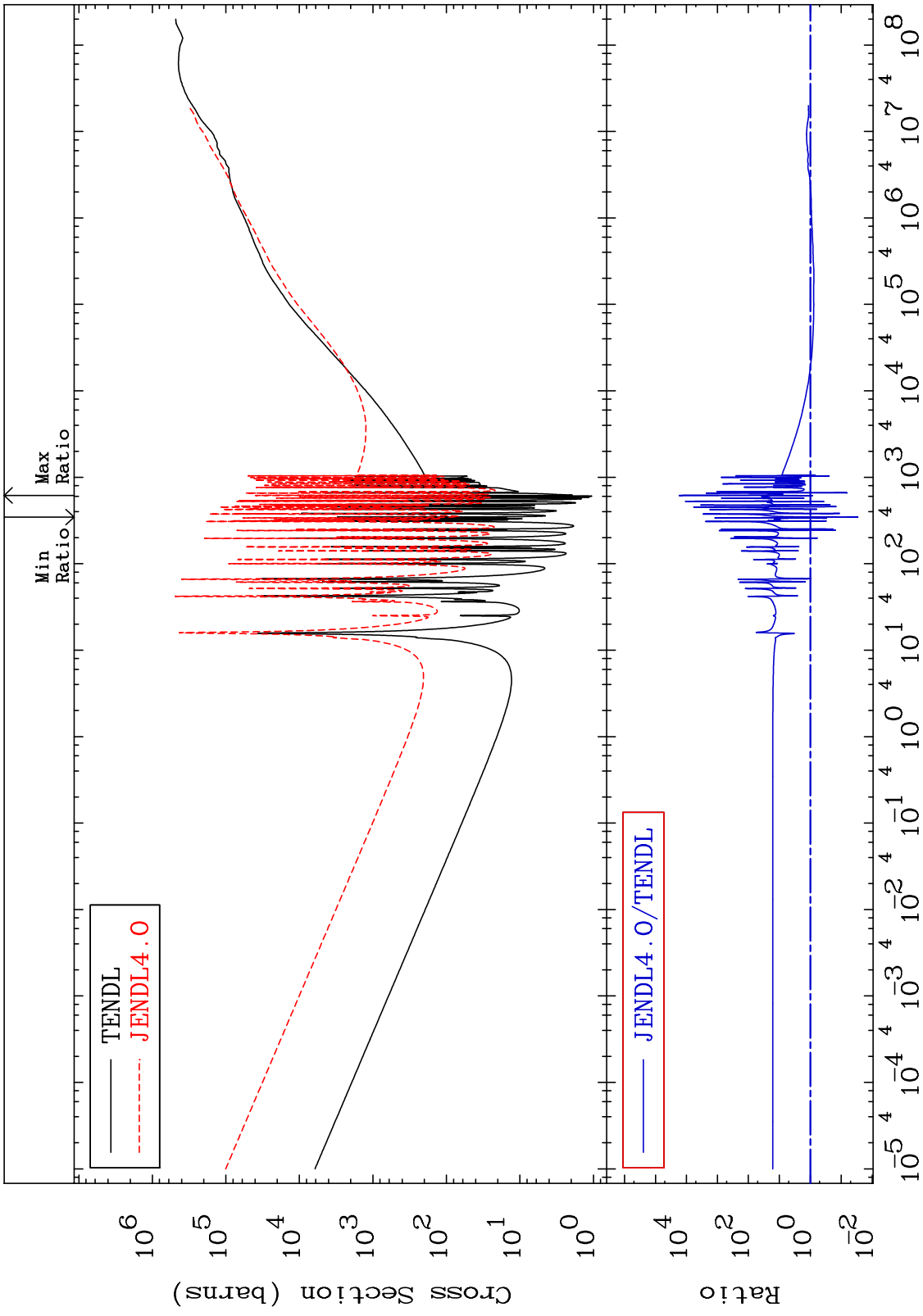




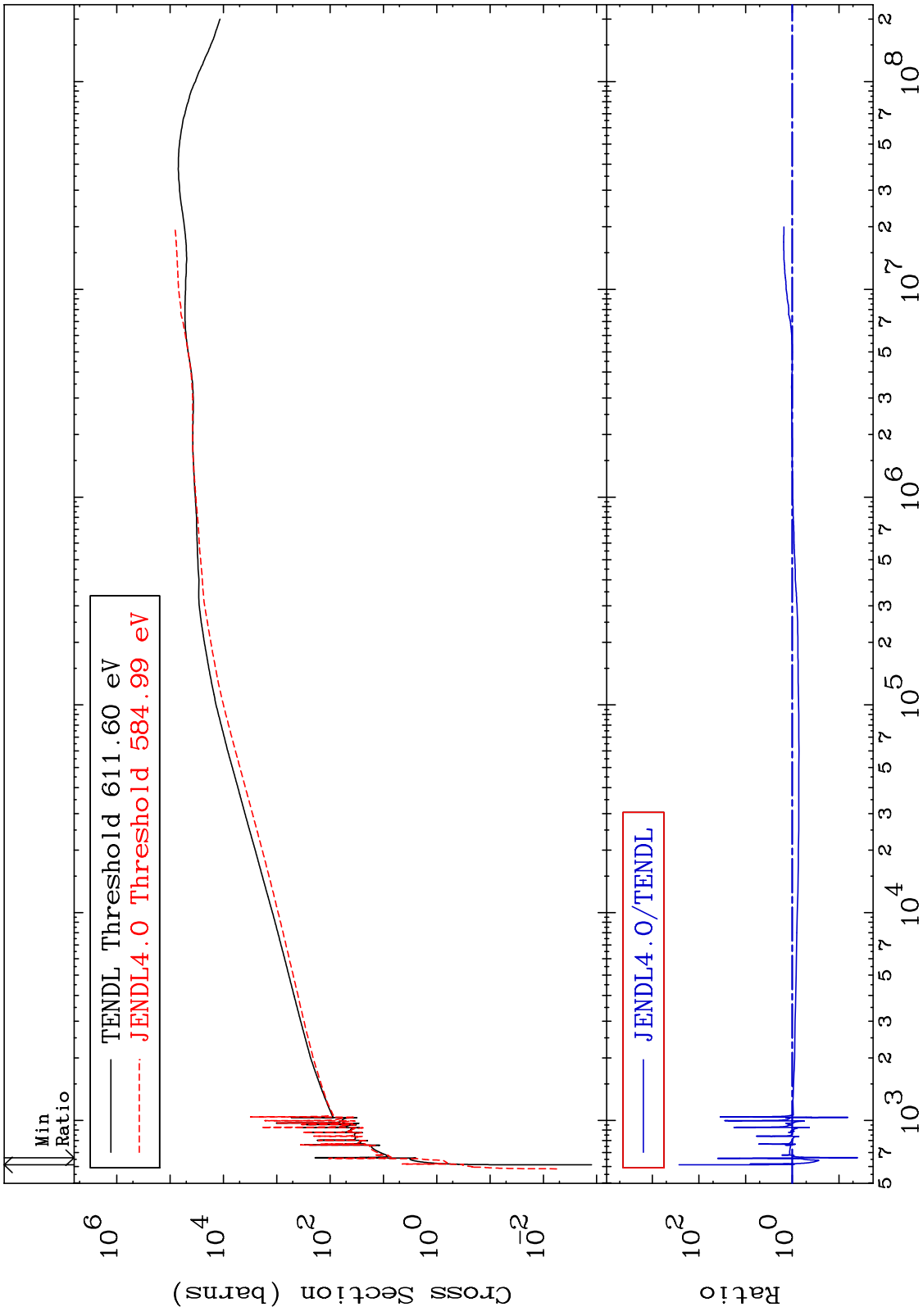
MAT 4440 Total kinematic kerma (high limit) 44-Ru-101  
 Cross Section -96.84 To 9999. %



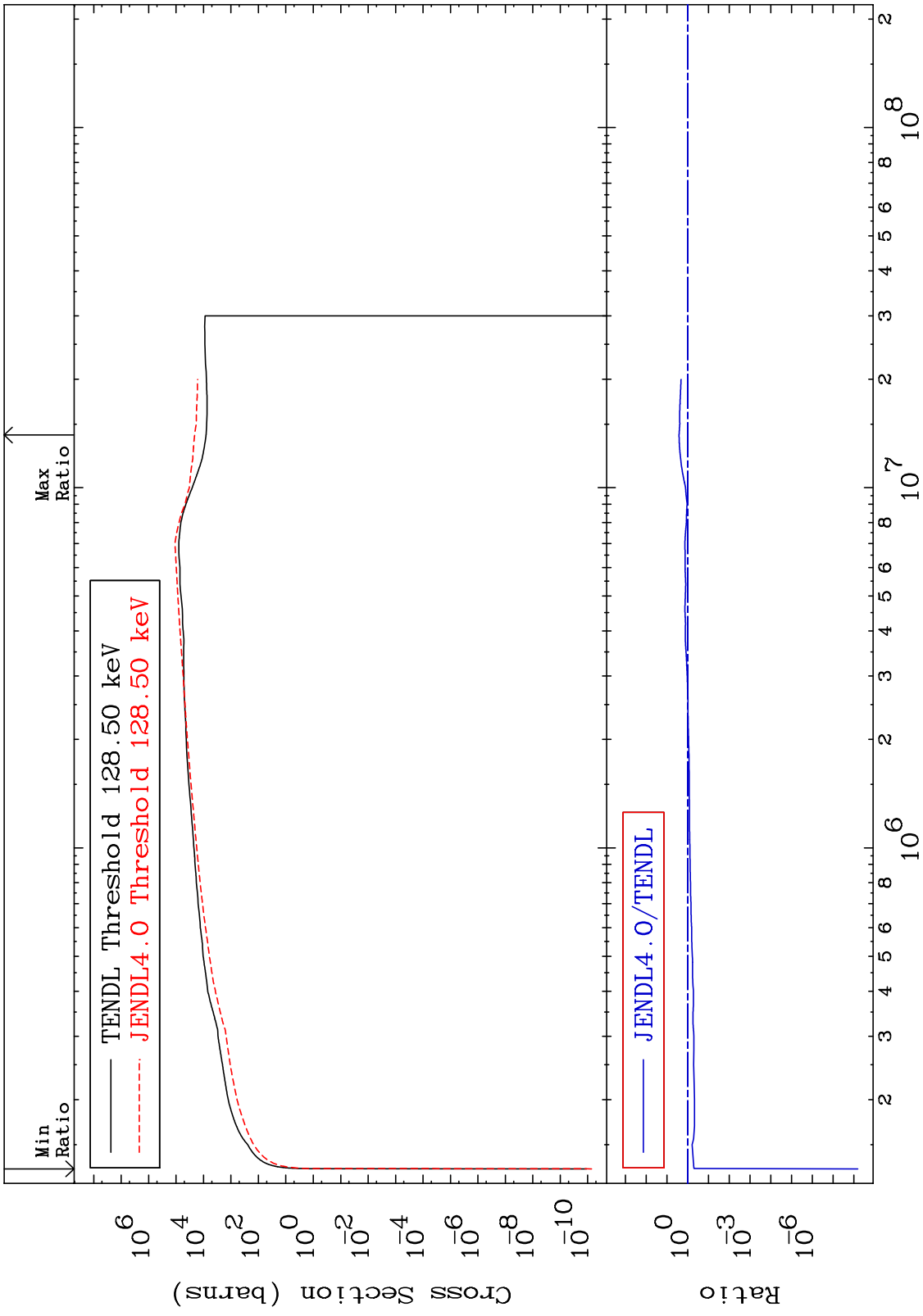
MAT 4440      Dpa total (eV-barns)      44-Ru-101  
 Cross Section      -97.09 To 9999. %



MAT 4440      Dpa elastic (mt2)      44-Ru-101  
 Cross Section      -96.07 To 9999. %



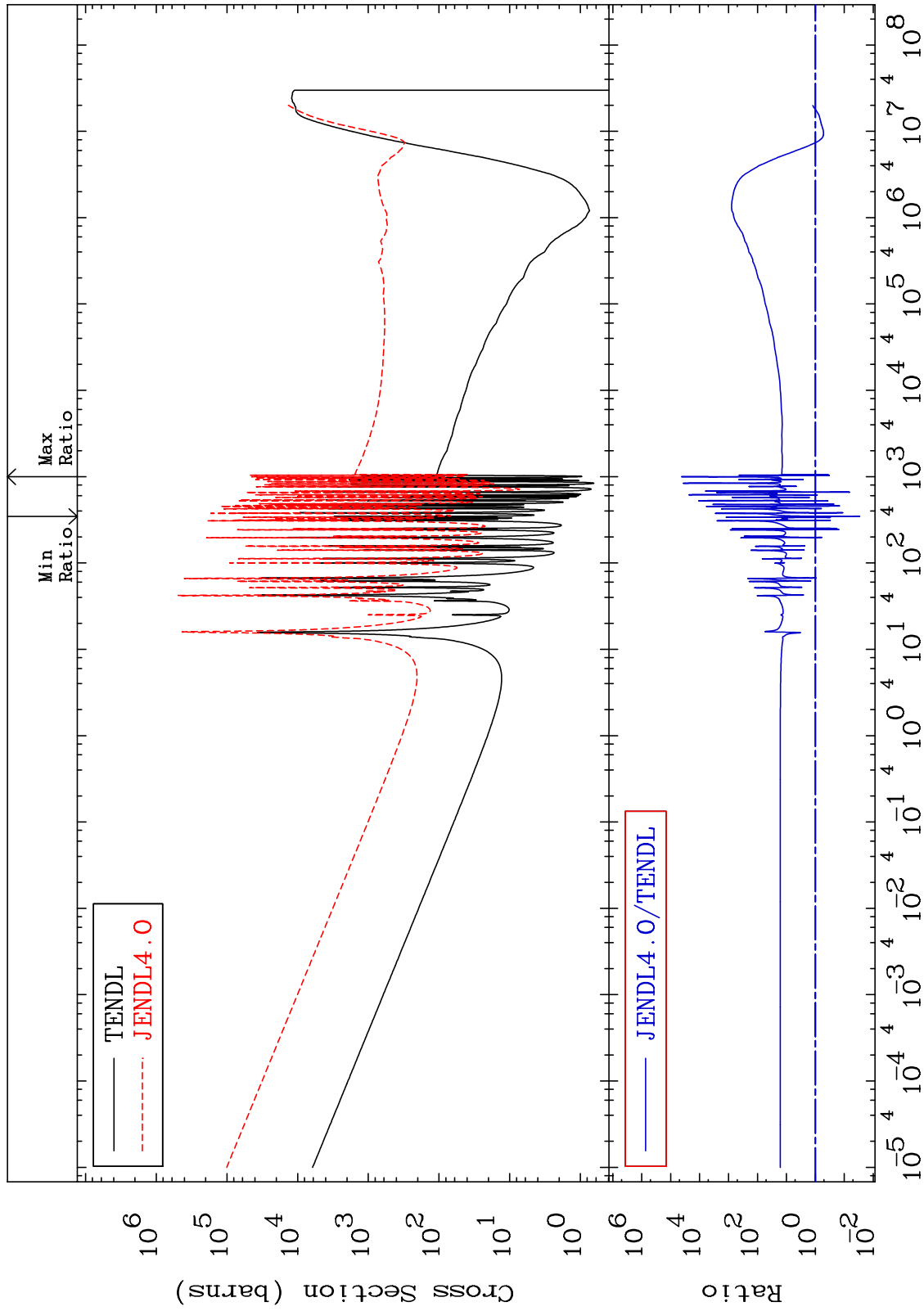
MAT 4440      Dpa inelastic (mt51-91)      44-Ru-101  
 Cross Section      -100.0 To 161.2 %



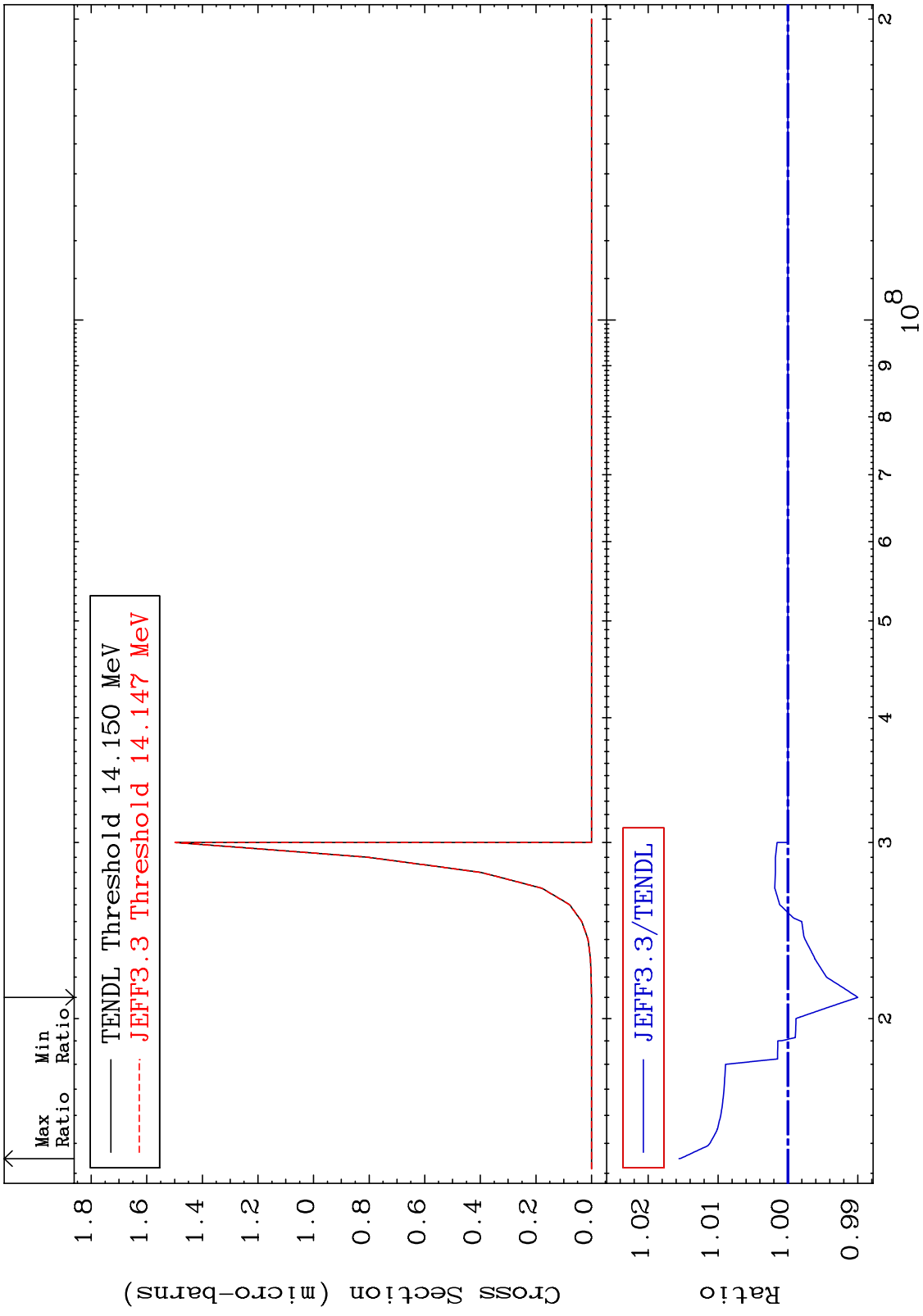
MAT 4440

Dpa disappearance (mt102 -120)  
Cross Section

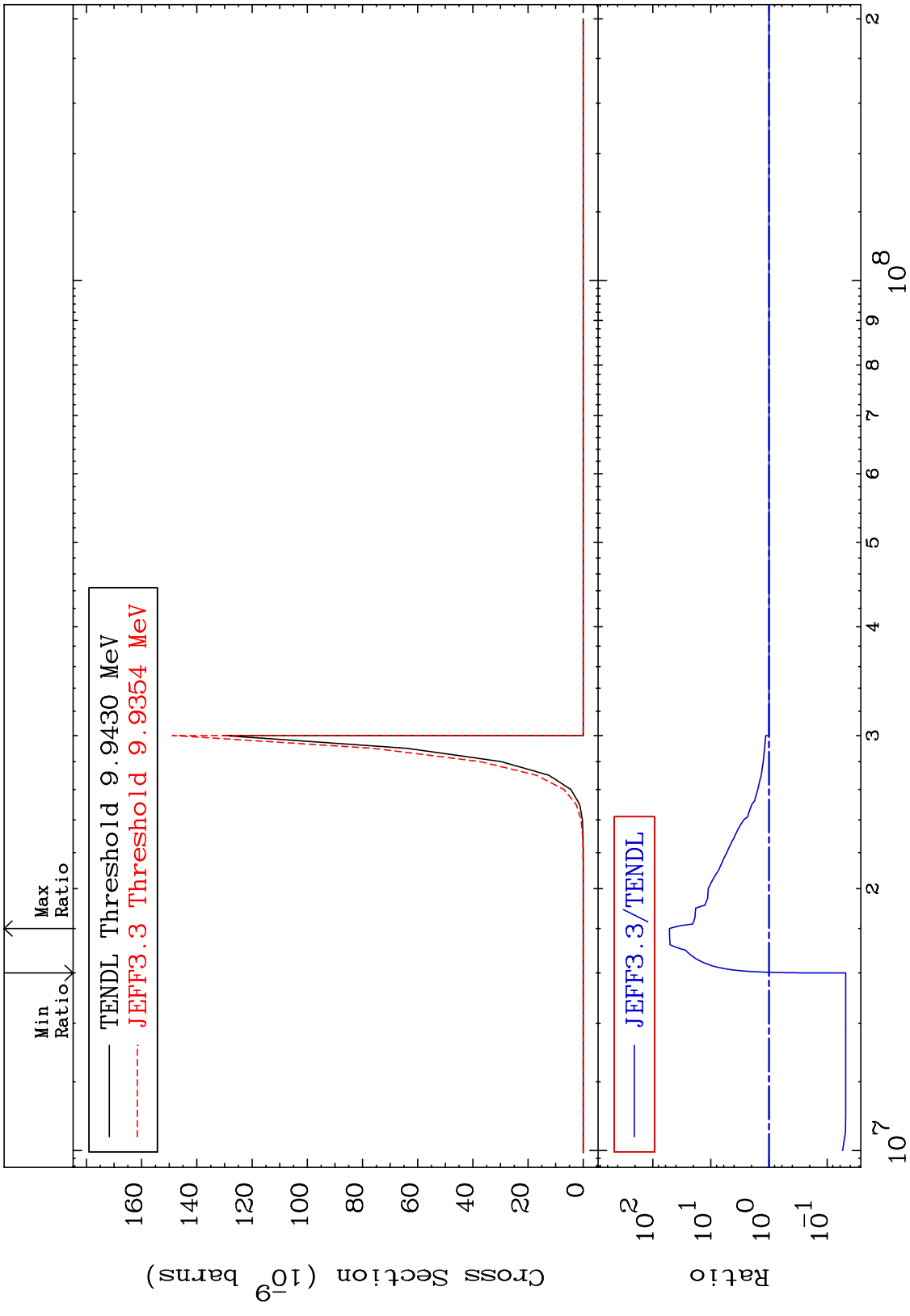
44-Ru-101  
-97.09 To 9999. %

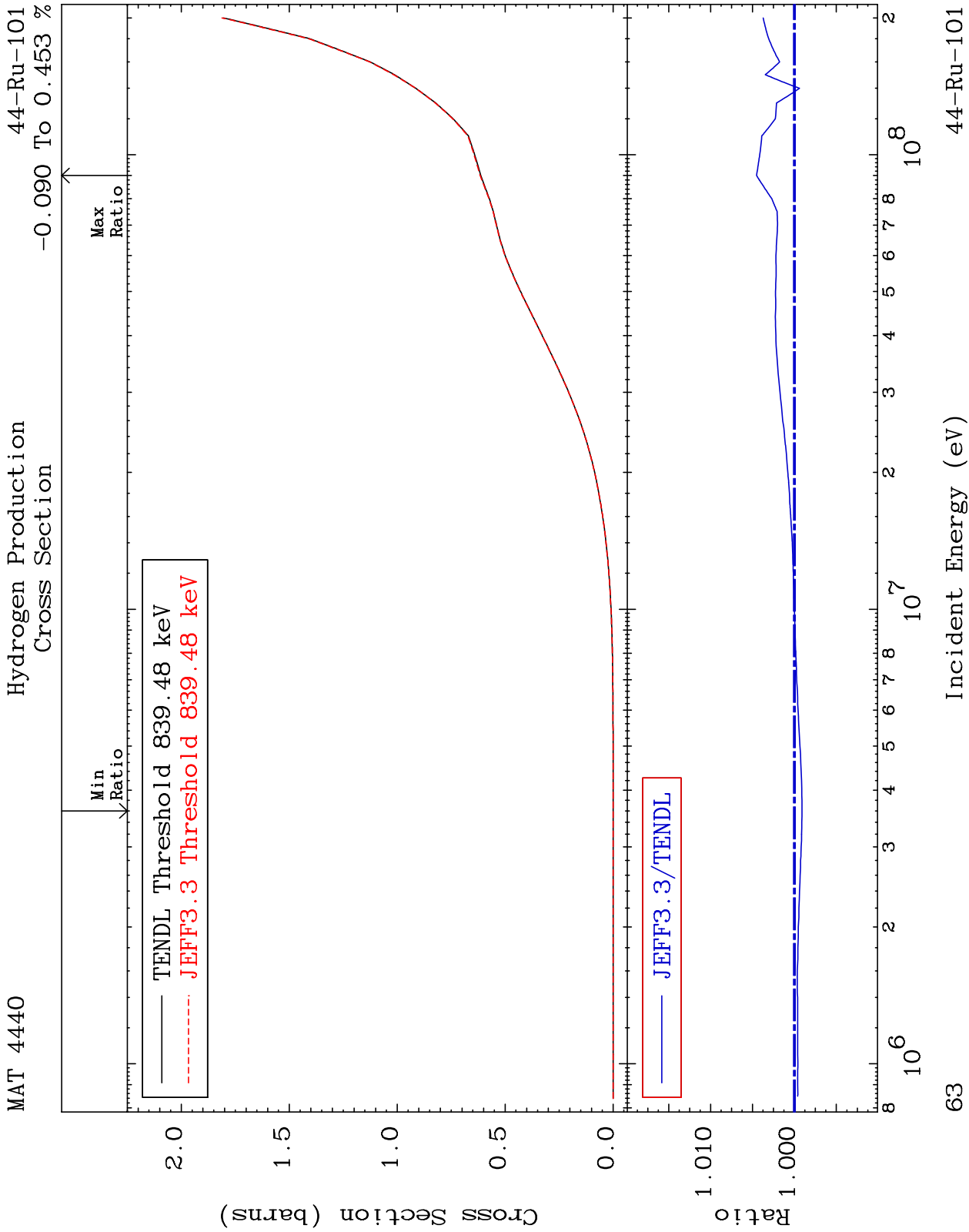


MAT 4440 (n,p) t 44-Ru-101  
 Cross Section -1.000 To 1.558 %



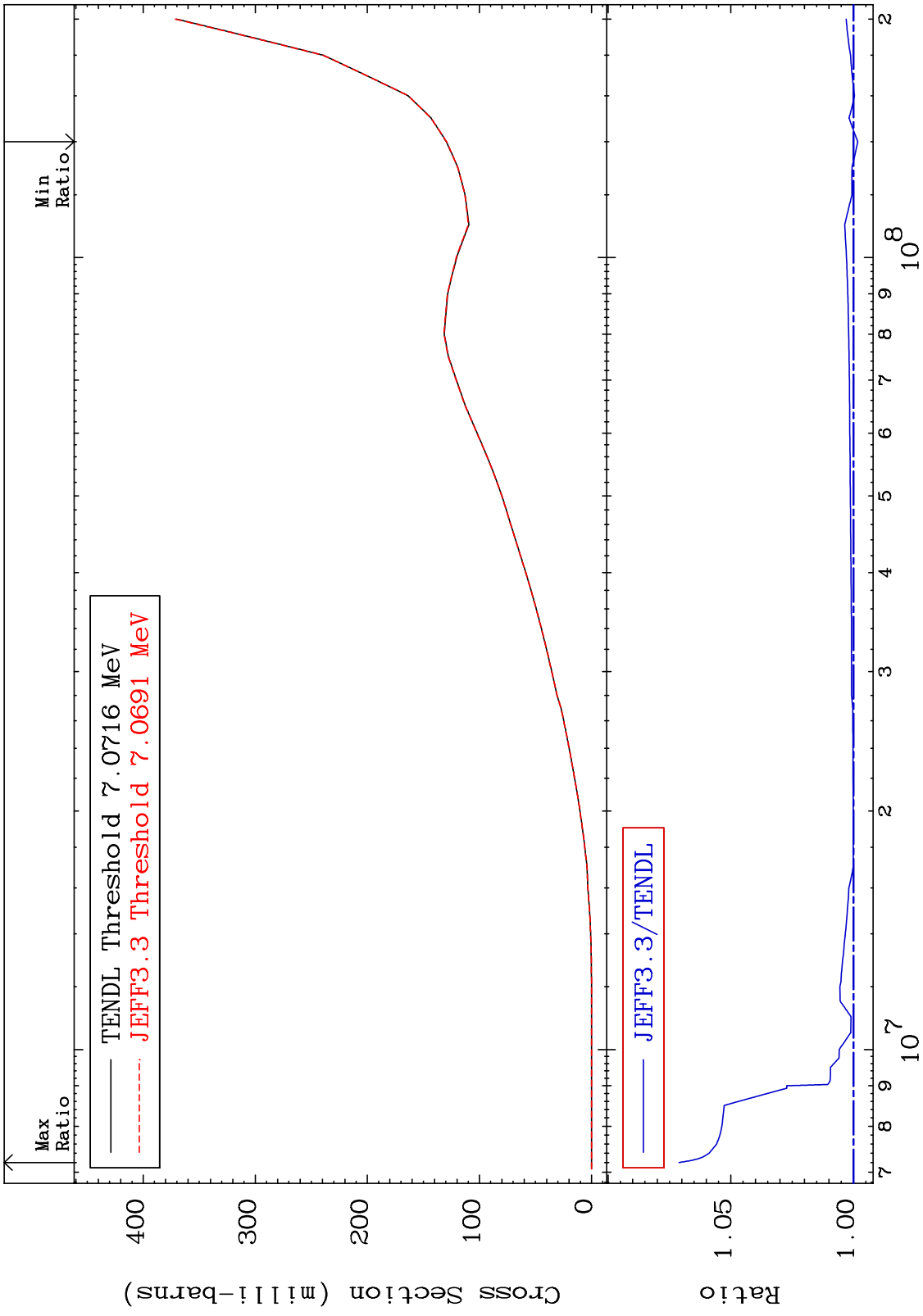
MAT 4440 (n,d)  $\alpha$  44-Ru-101  
 Cross Section -95.21 To 5051. %





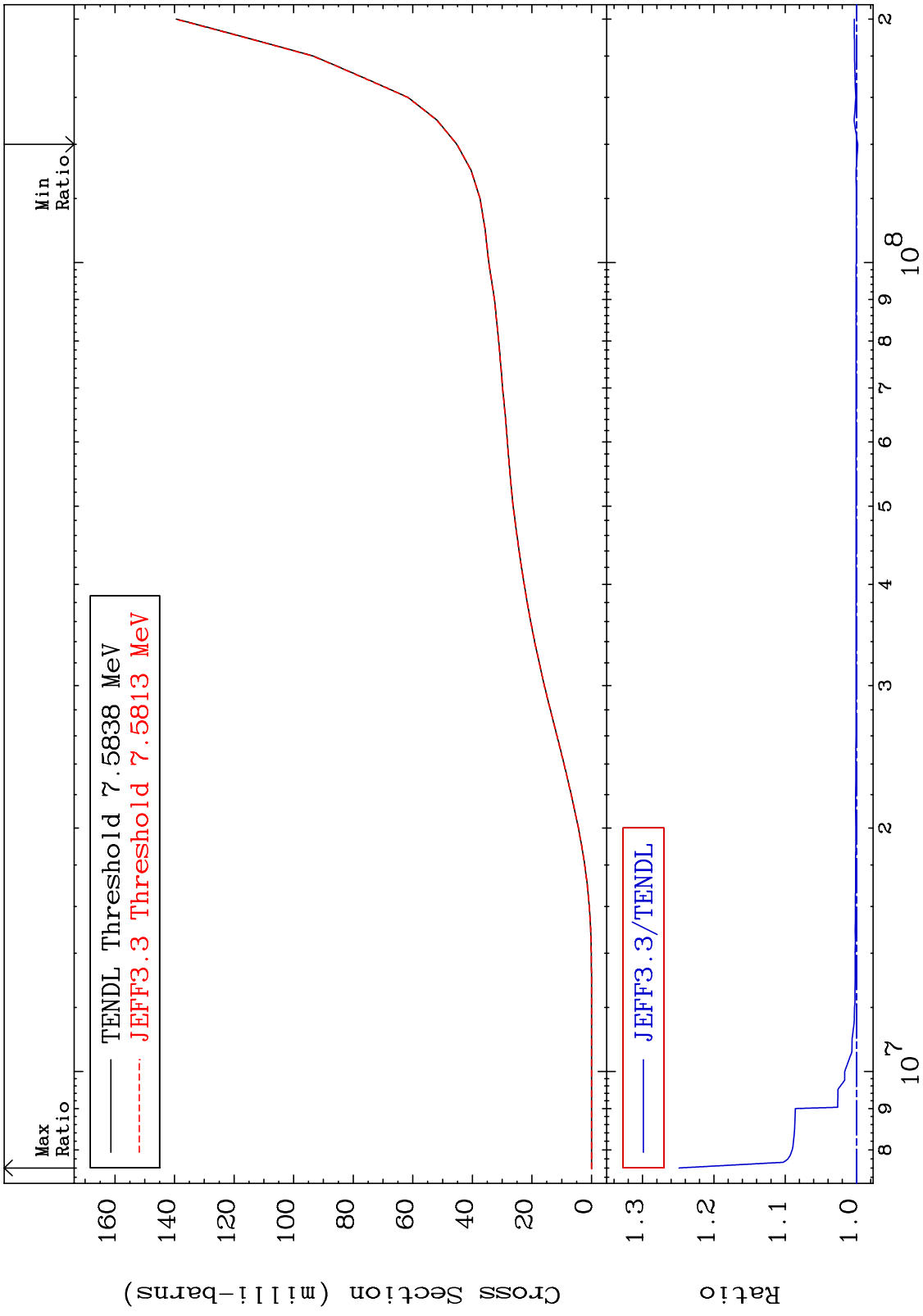


MAT 4440 Deuterium Production Cross Section 44-Ru-101 -0.176 To 7.111 %

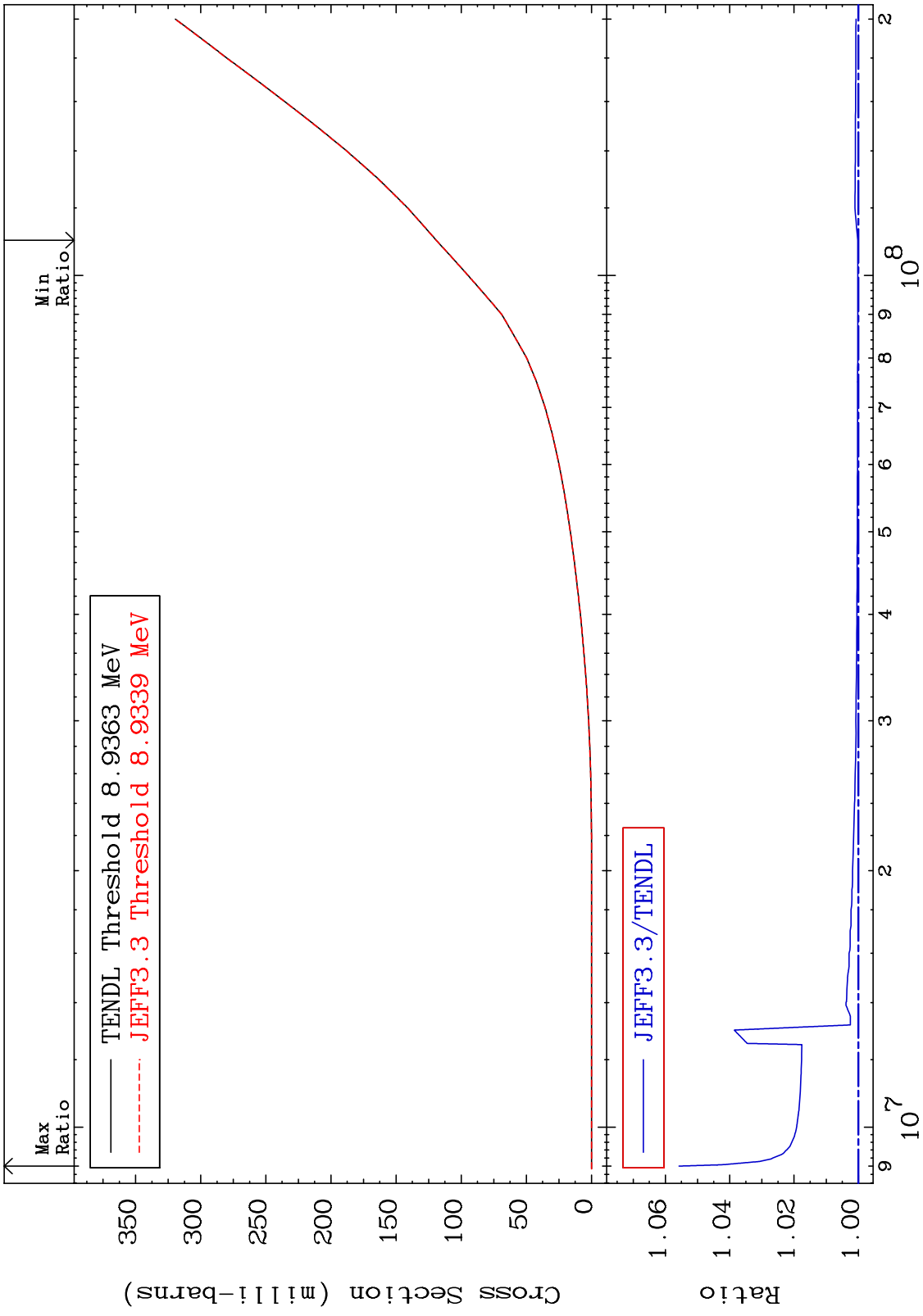


64 44-Ru-101

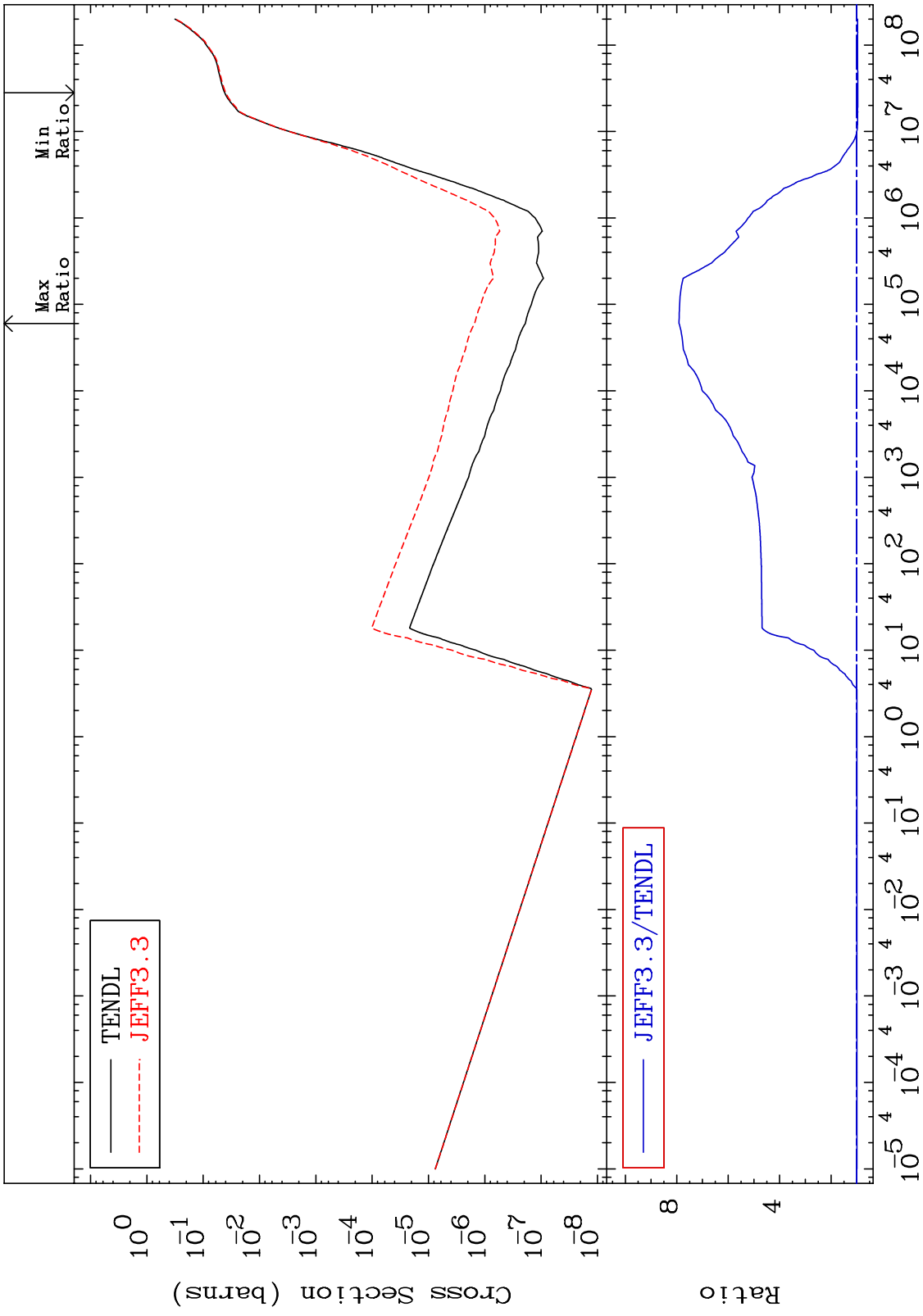
MAT 4440 Tritium Production Cross Section 44-Ru-101  
 -0.191 To 24.88 %



MAT 4440 He-3 Production Cross Section 44-Ru-101 To 5.575 %

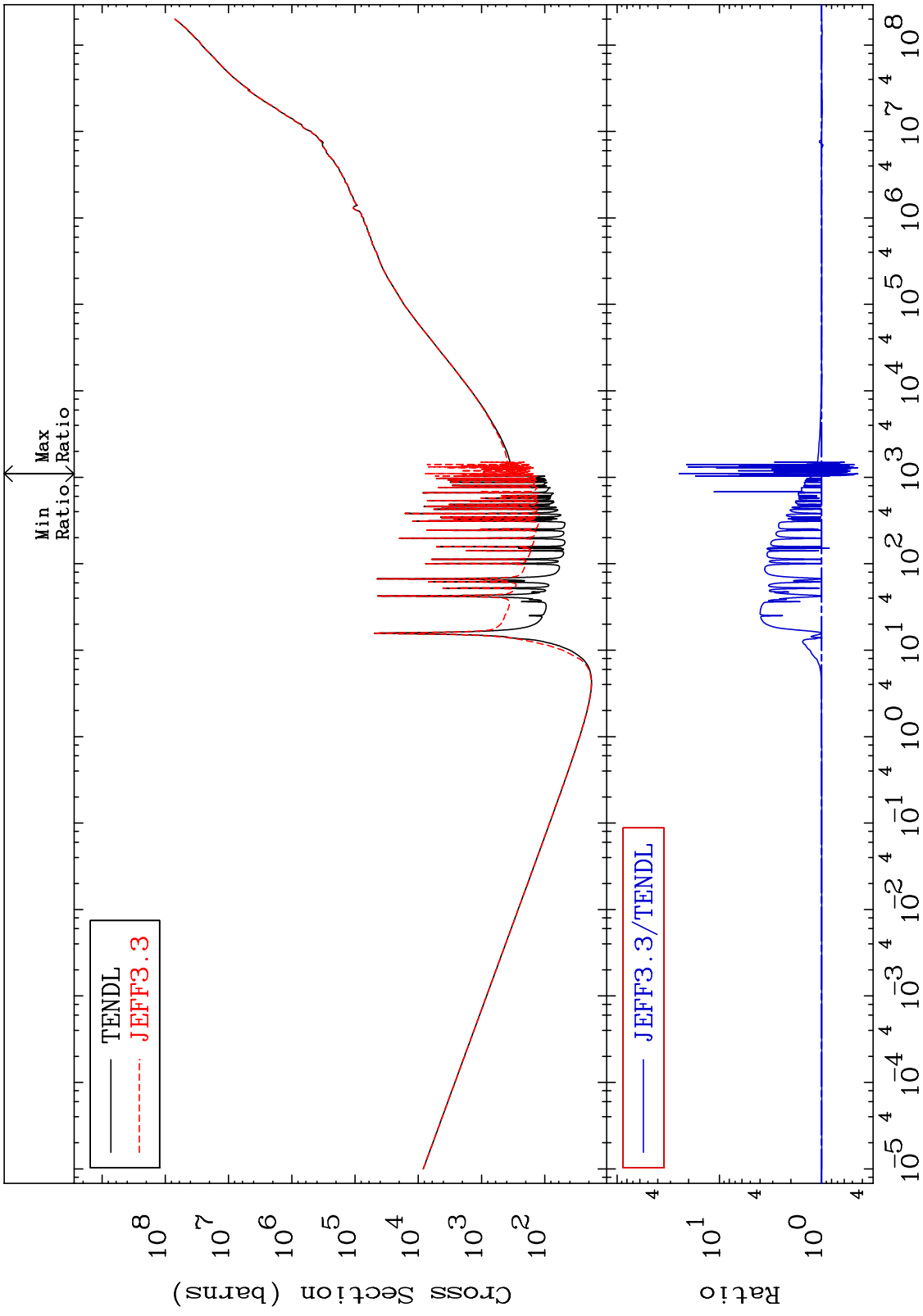


MAT 4440 He-4 Production Cross Section 44-Ru-101  
 -4.115 To 691.1 %



67 44-Ru-101

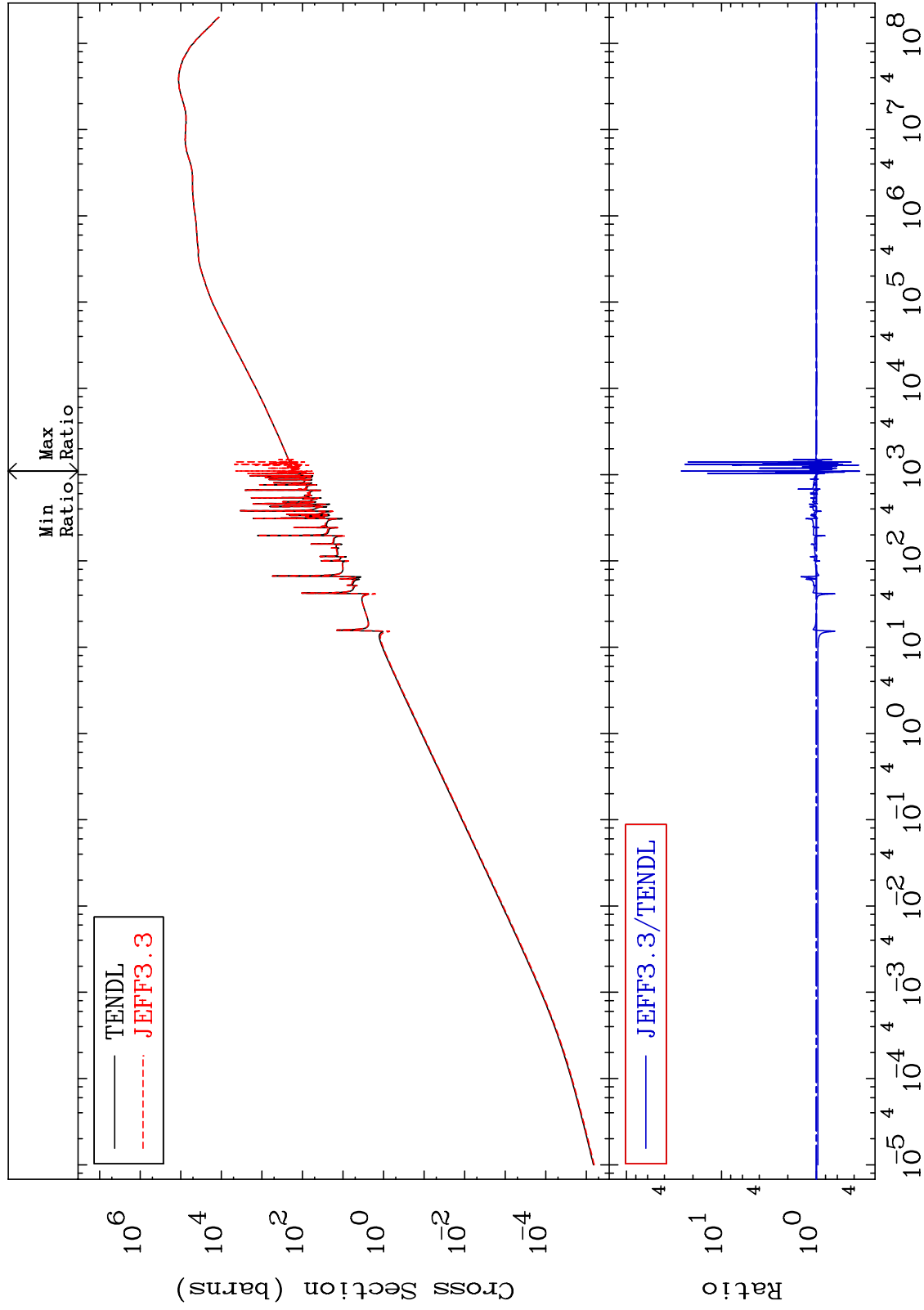
MAT 4440      Kerma total (eV-barns)      44-Ru-101  
Cross Section      -55.77 To 2378. %



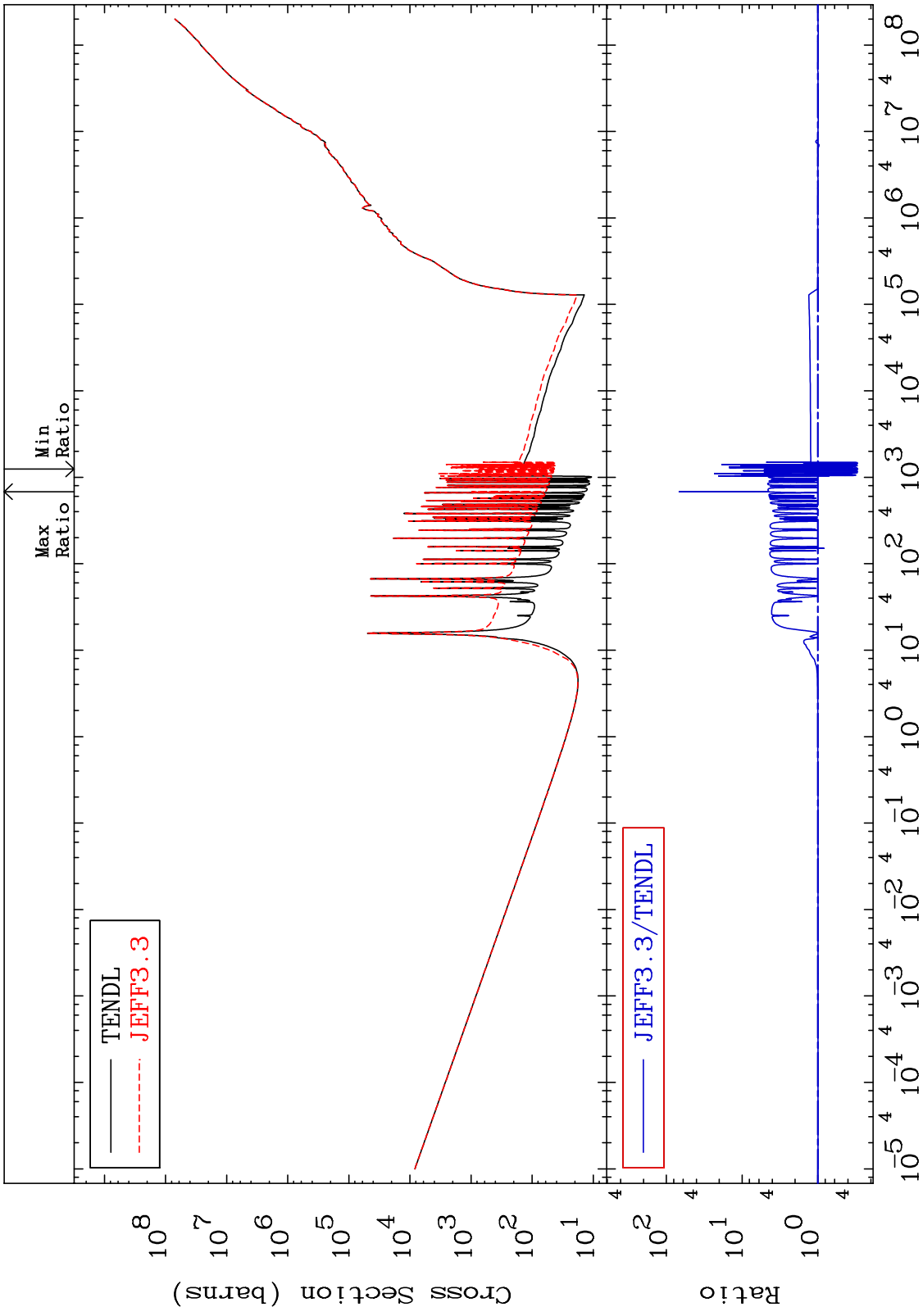
MAT 4440

Kerma elastic  
Cross Section

44-Ru-101  
-65.20 To 2537. %

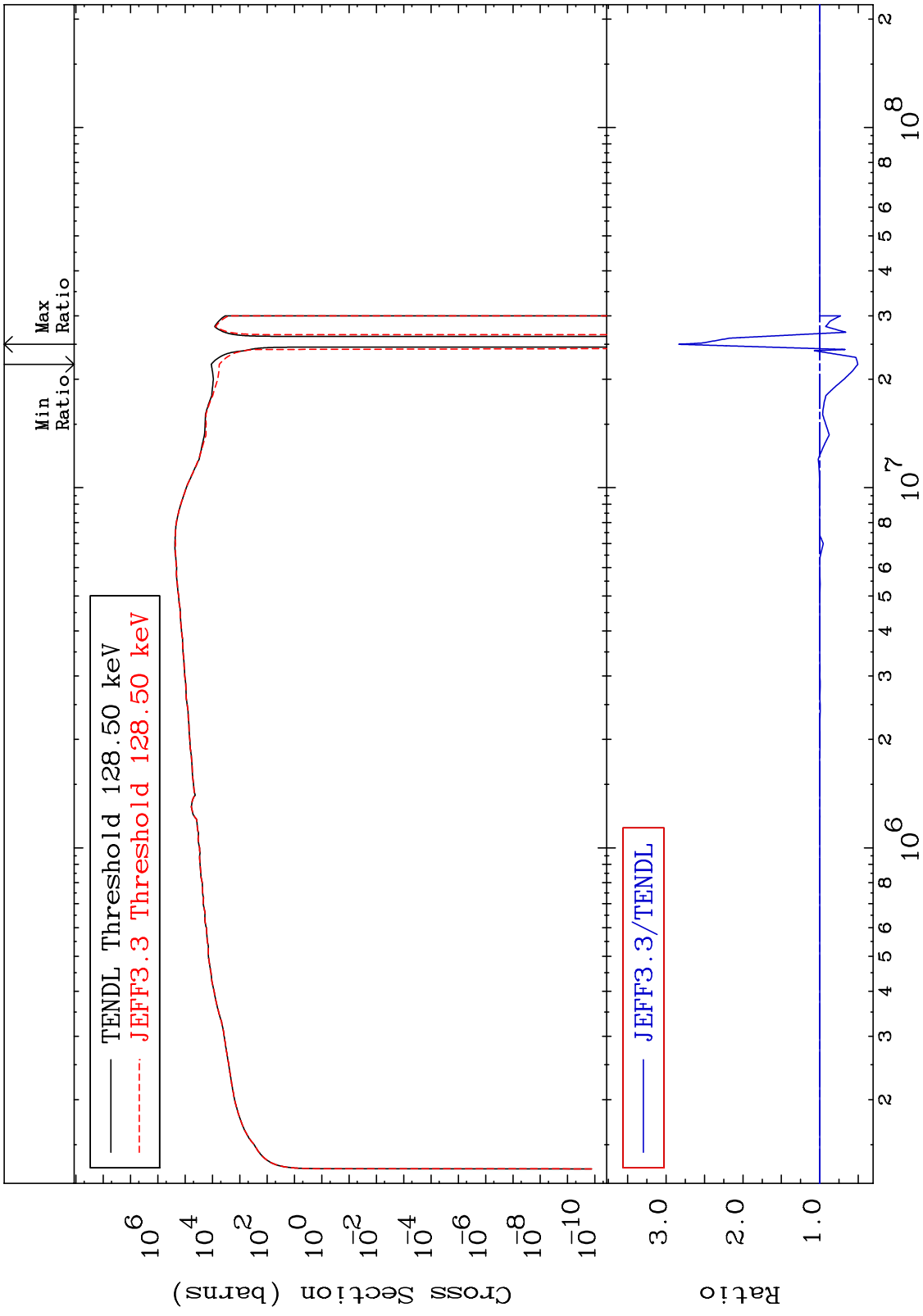


MAT 4440      Kerma non-elastic (all but mt2)      44-Ru-101  
 Cross Section      -70.30 To 6694. %



70      Incident Energy (eV)      44-Ru-101

MAT 4440 Kerma inelastic (mt51-91) 44-Ru-101  
 Cross Section -49.48 To 183.2 %

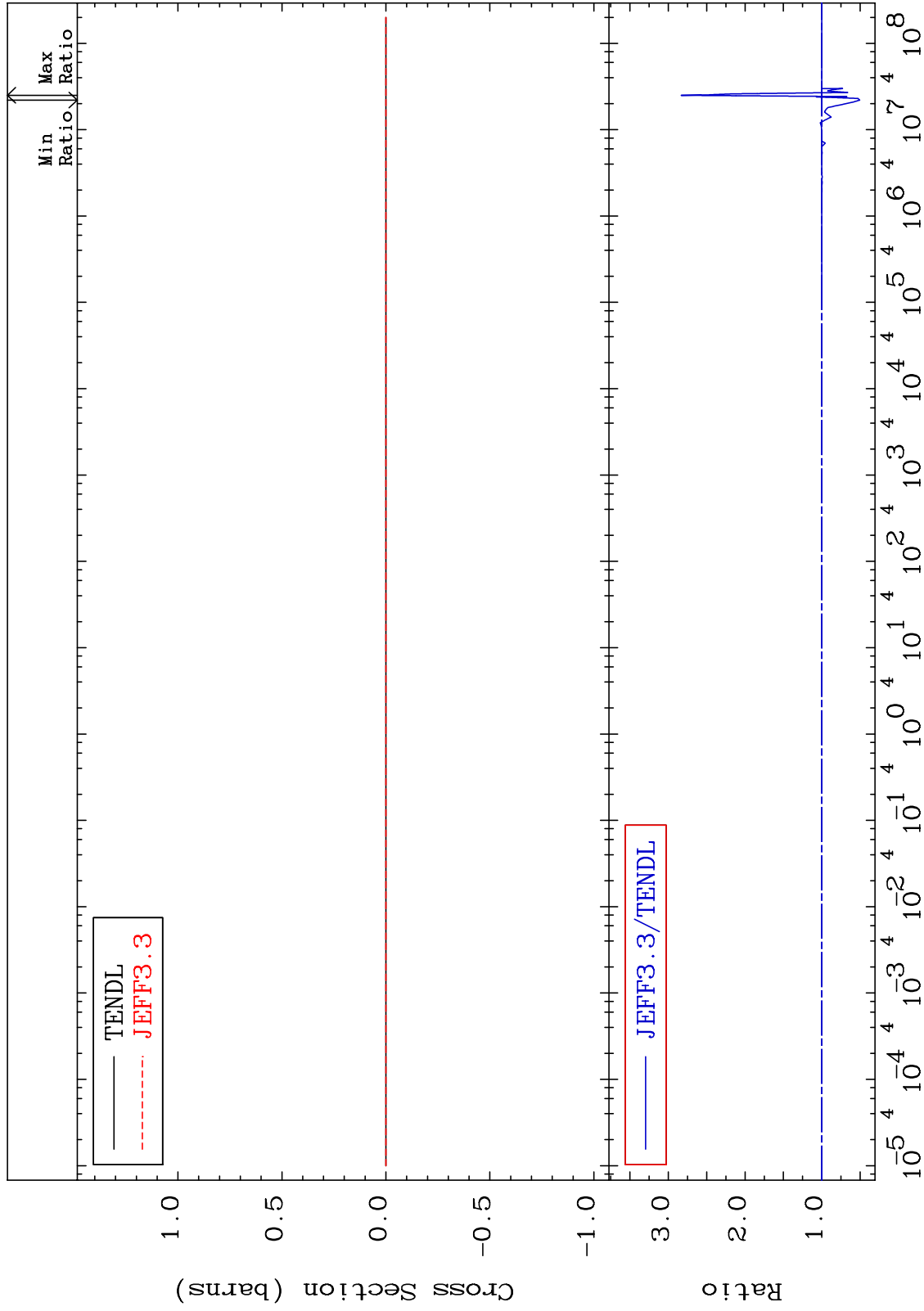




MAT 4440

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

44-Ru-101  
-49.48 To 183.2 %



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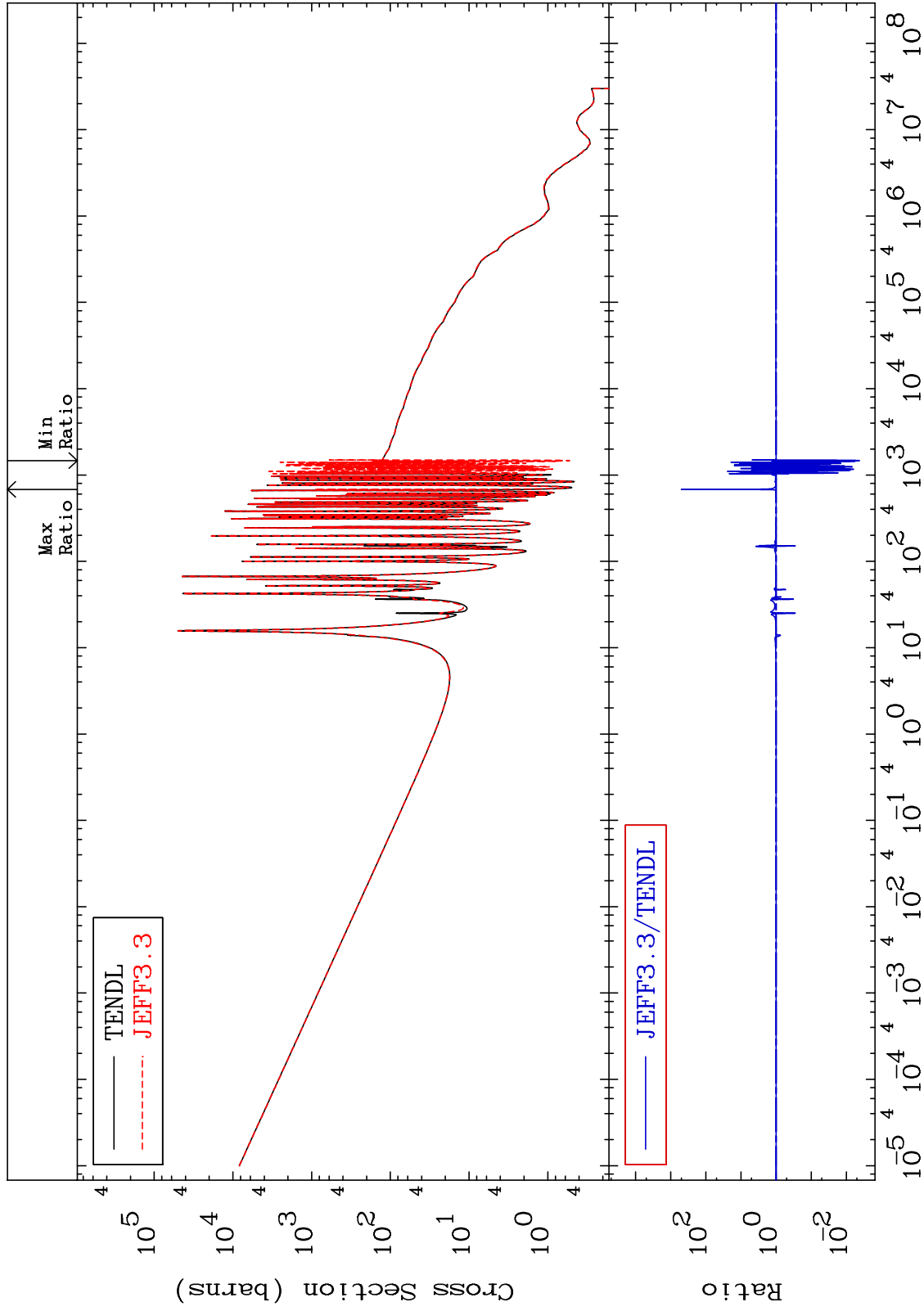
Incident Energy (eV)

44-Ru-101

MAT 4440

Kerma capture (mt102)  
Cross Section

44-Ru-101  
-99.59 To 9999. %



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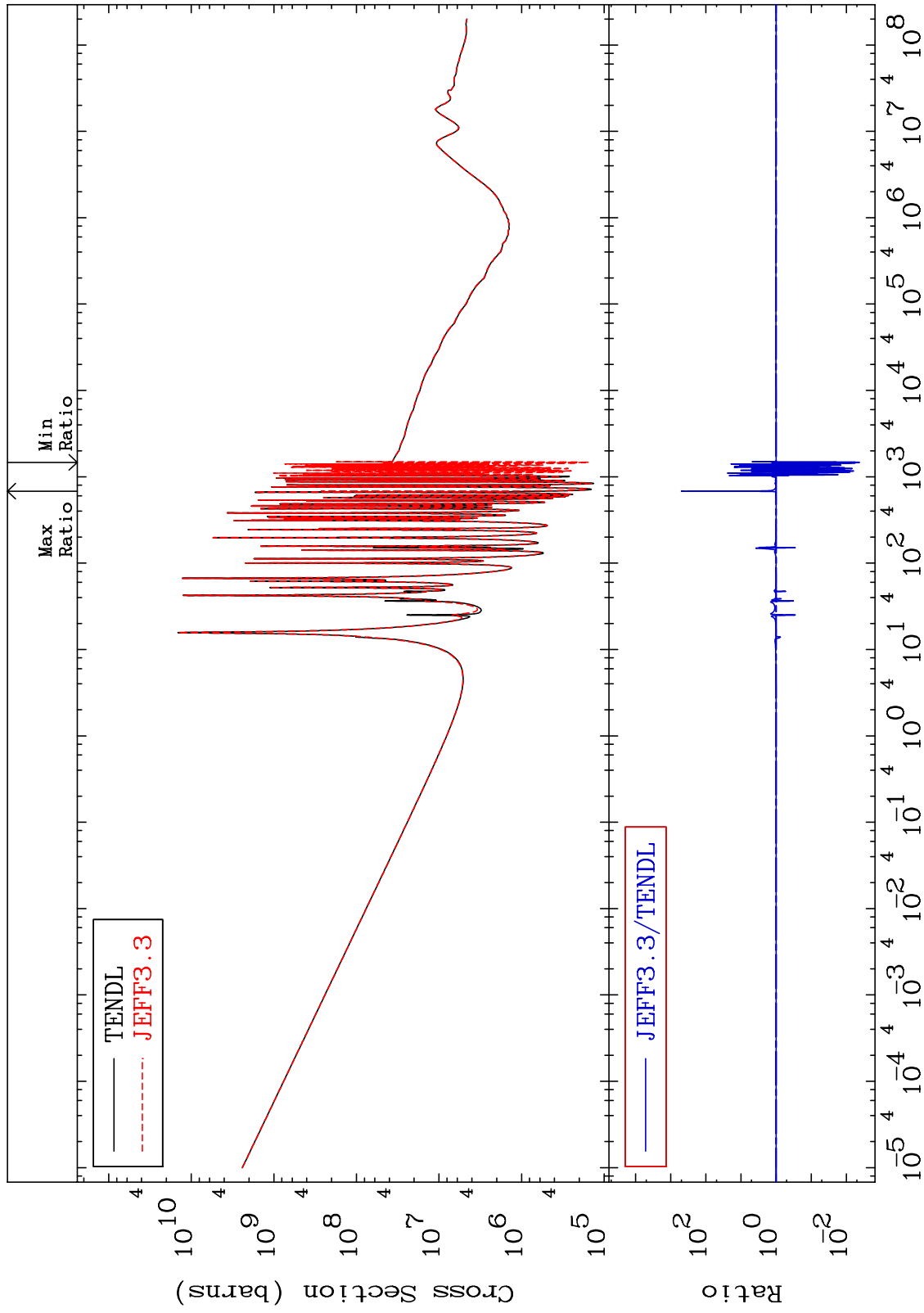
Incident Energy (eV)

44-Ru-101

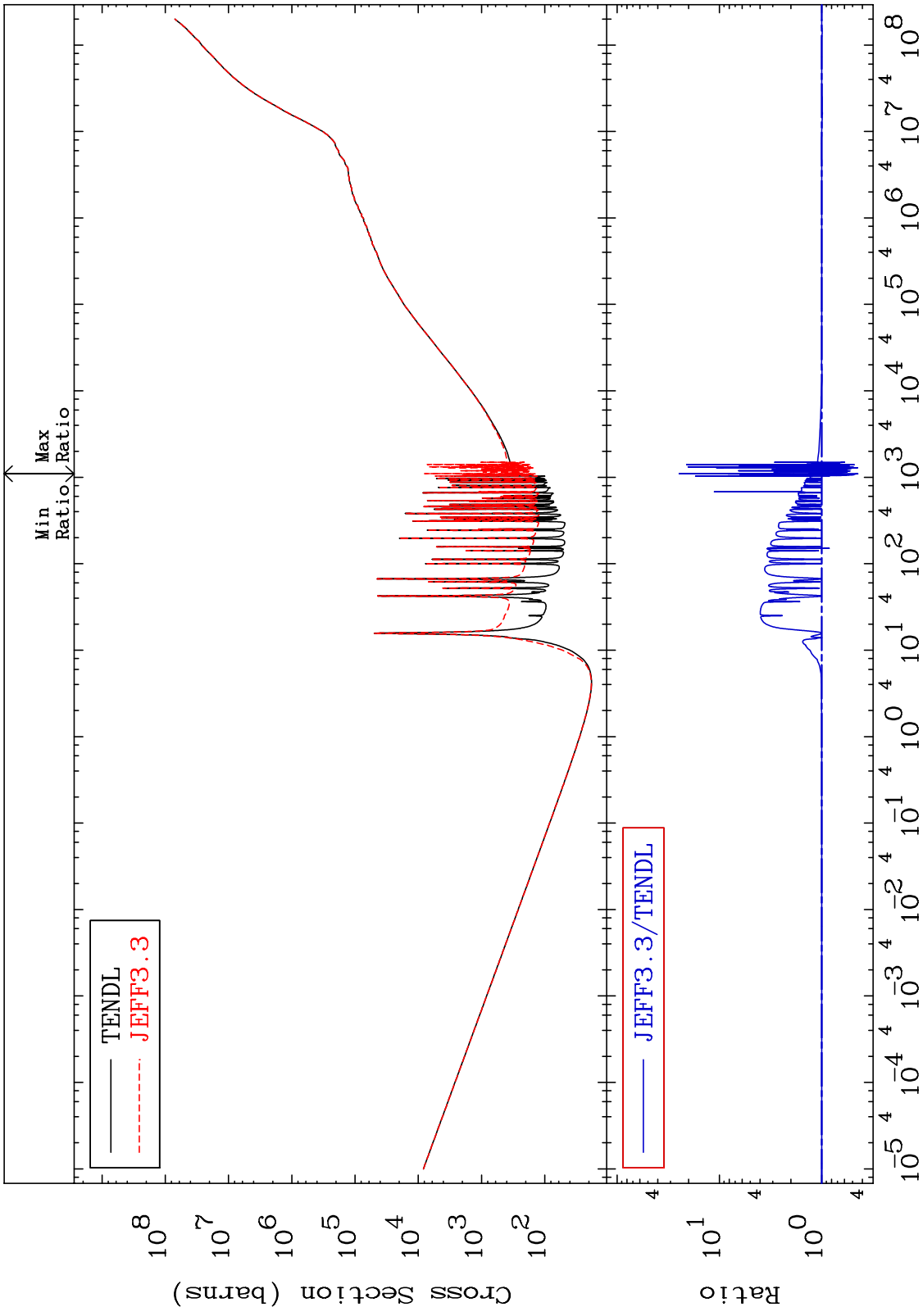
MAT 4440

Total photon (eV-barns)  
Cross Section

44-Ru-101  
-99.59 To 9999. %

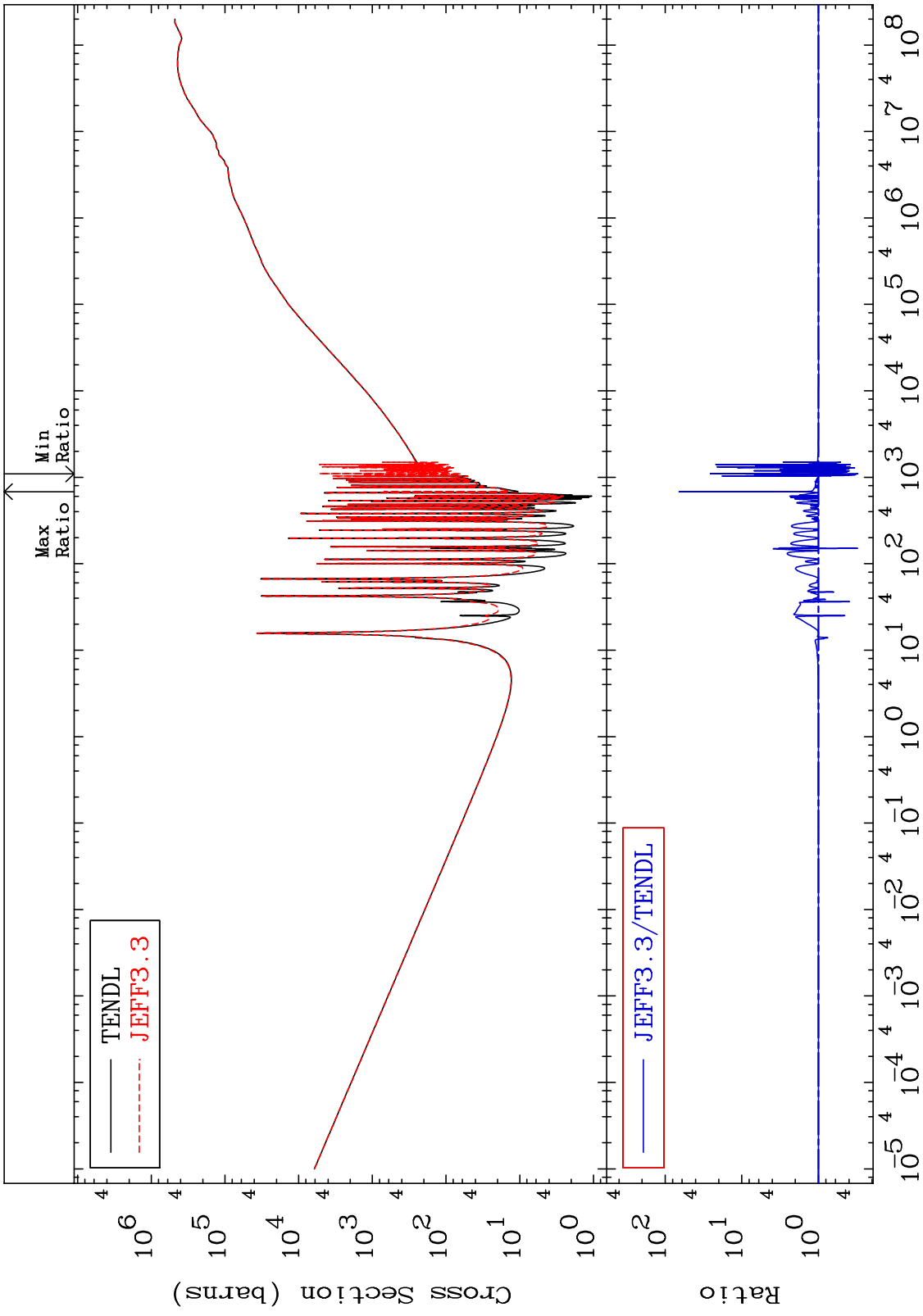


MAT 4440 Total kinematic kerma (high limit) 44-Ru-101  
Cross Section -55.68 To 2378. %



75 44-Ru-101

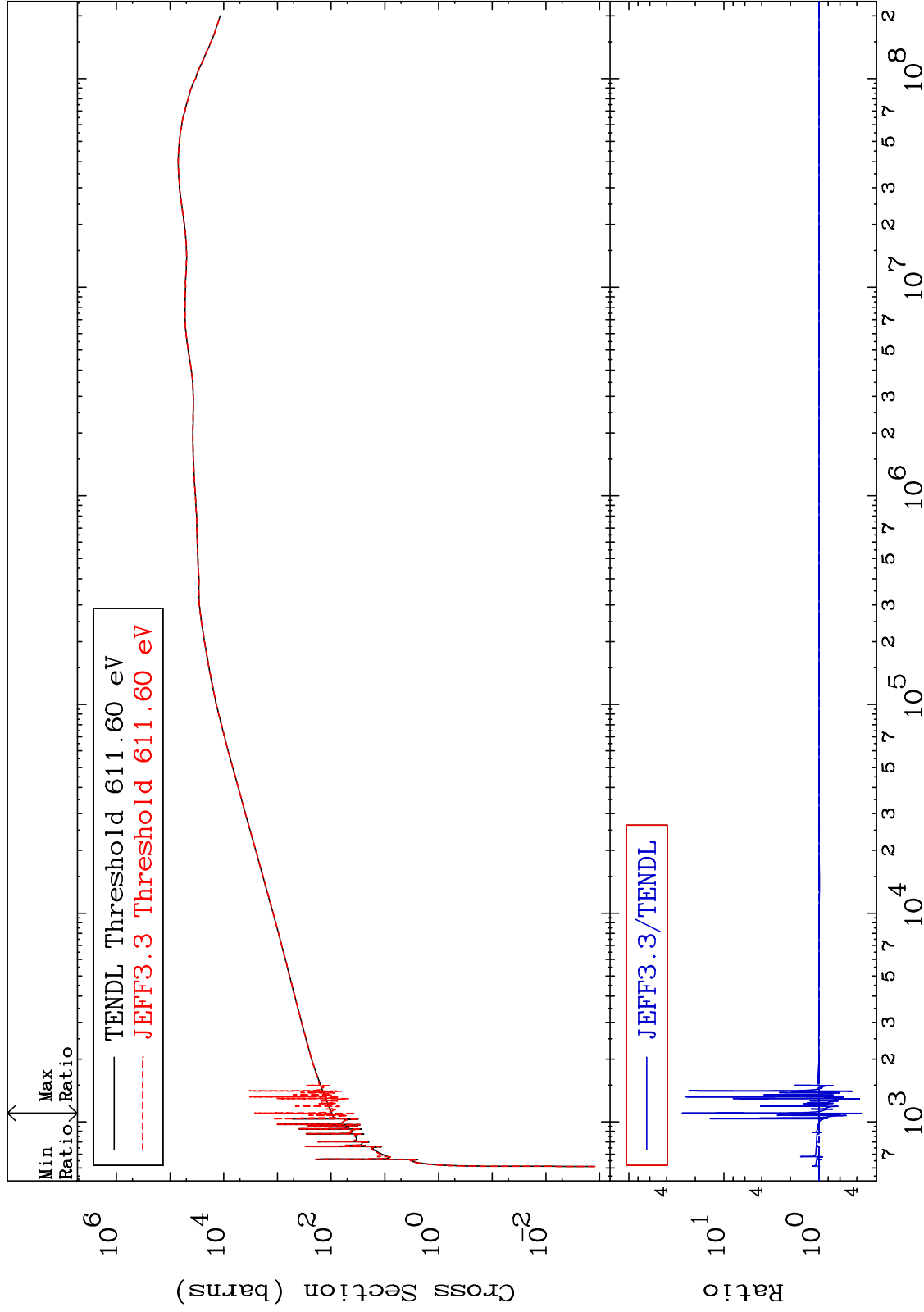
MAT 4440      Dpa total (eV-barns)      44-Ru-101  
 Cross Section      -69.38 To 6484. %



MAT 4440

Dpa elastic (mt2)  
Cross Section

44-Ru-101  
-64.08 To 2625. %

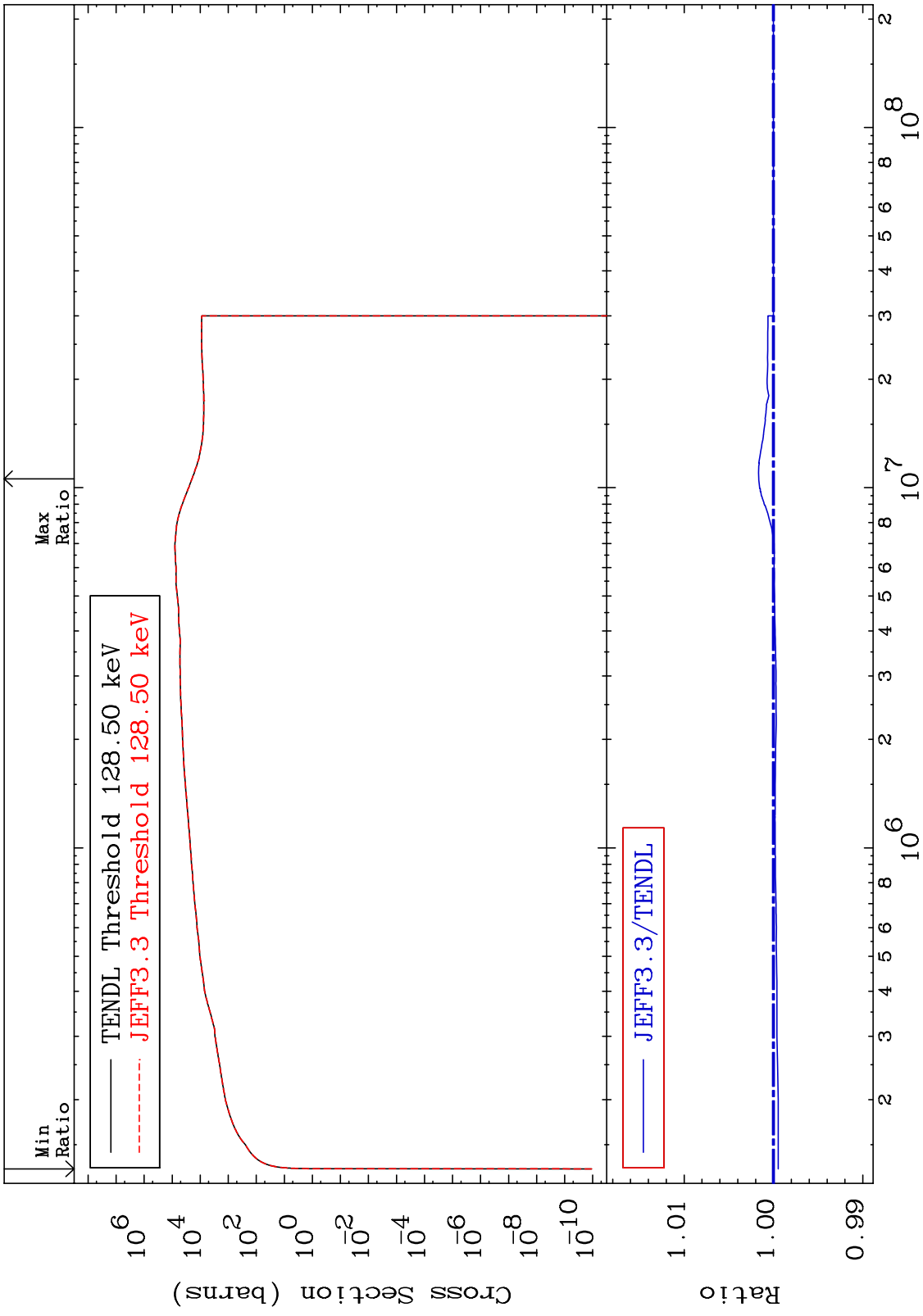


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44-Ru-101

44-Ru-101

MAT 4440      Dpa inelastic (mt51-91)      44-Ru-101  
 Cross Section      -0.054 To 0.167 %



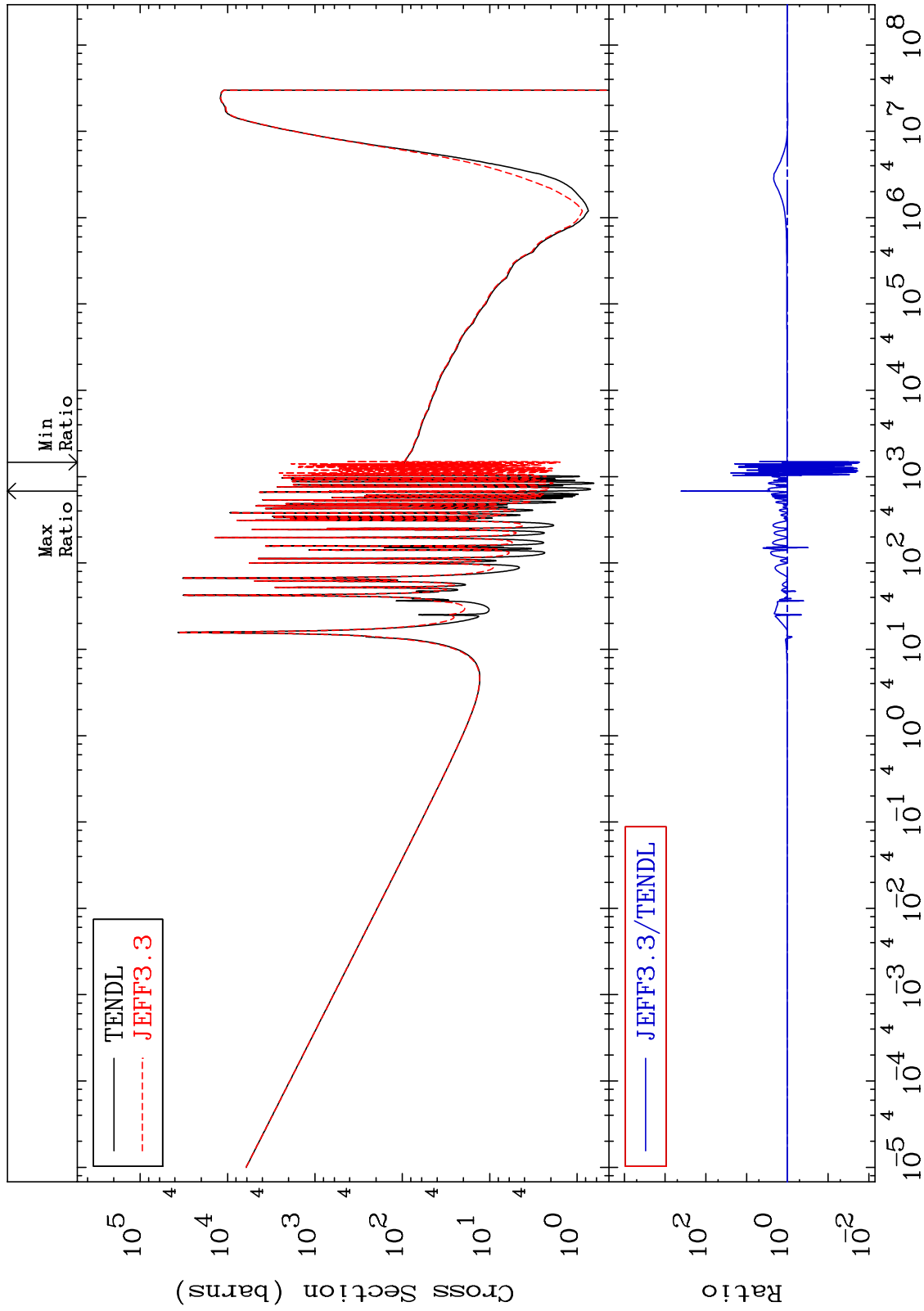
MAT 4440

Dpa disappearance (mt102 -120)

44-Ru-101

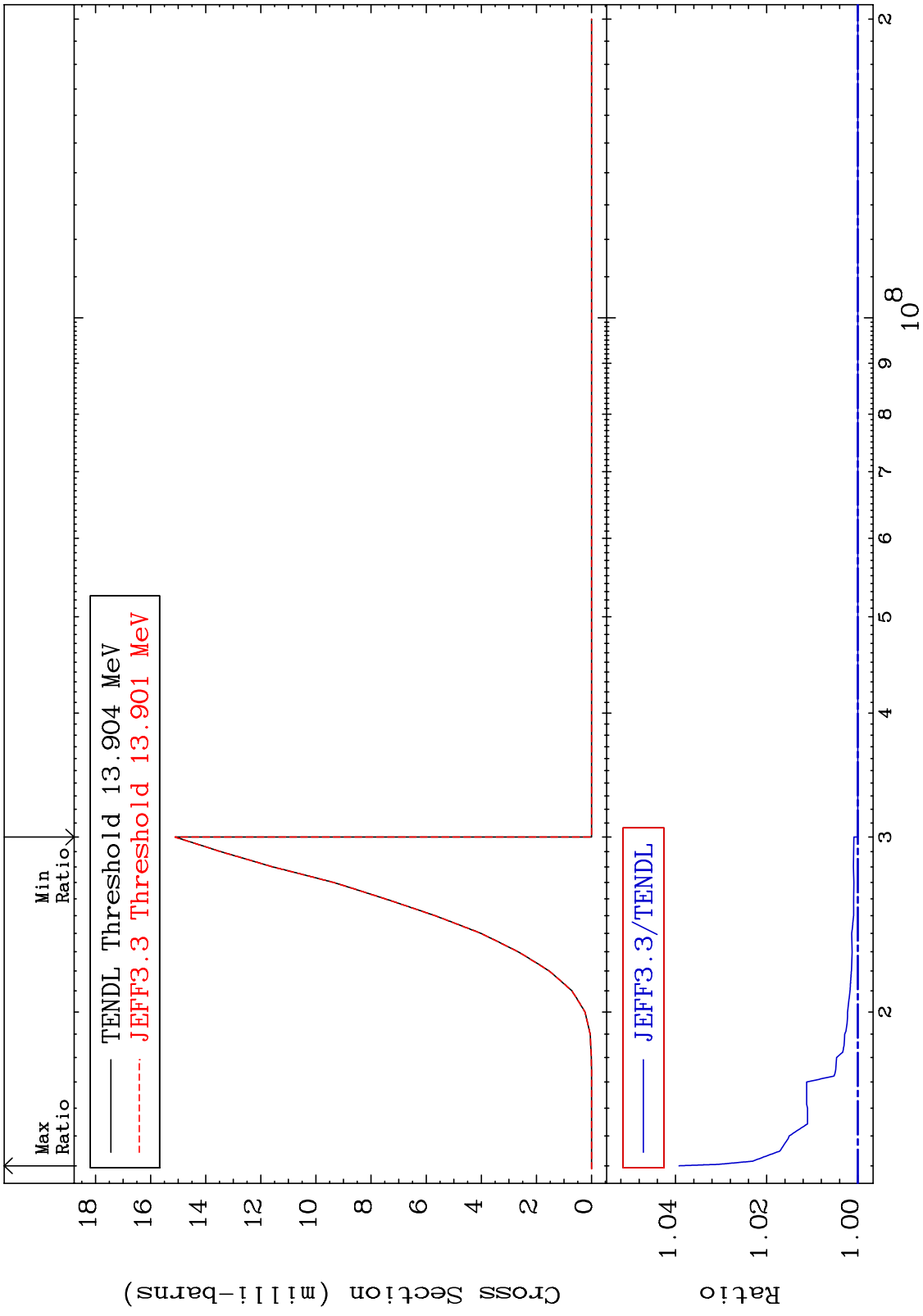
-98.33 To 9999. %

Cross Section

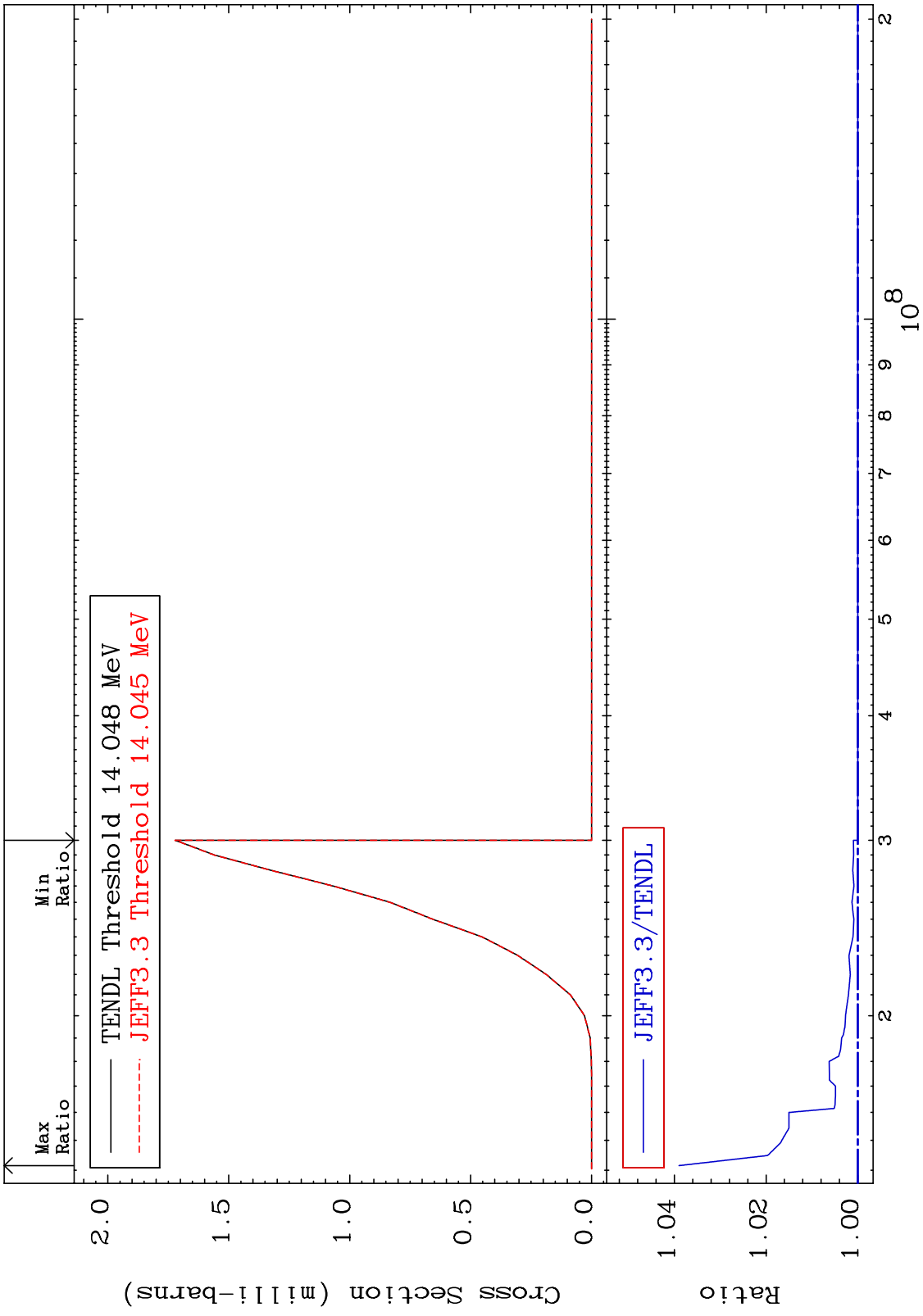




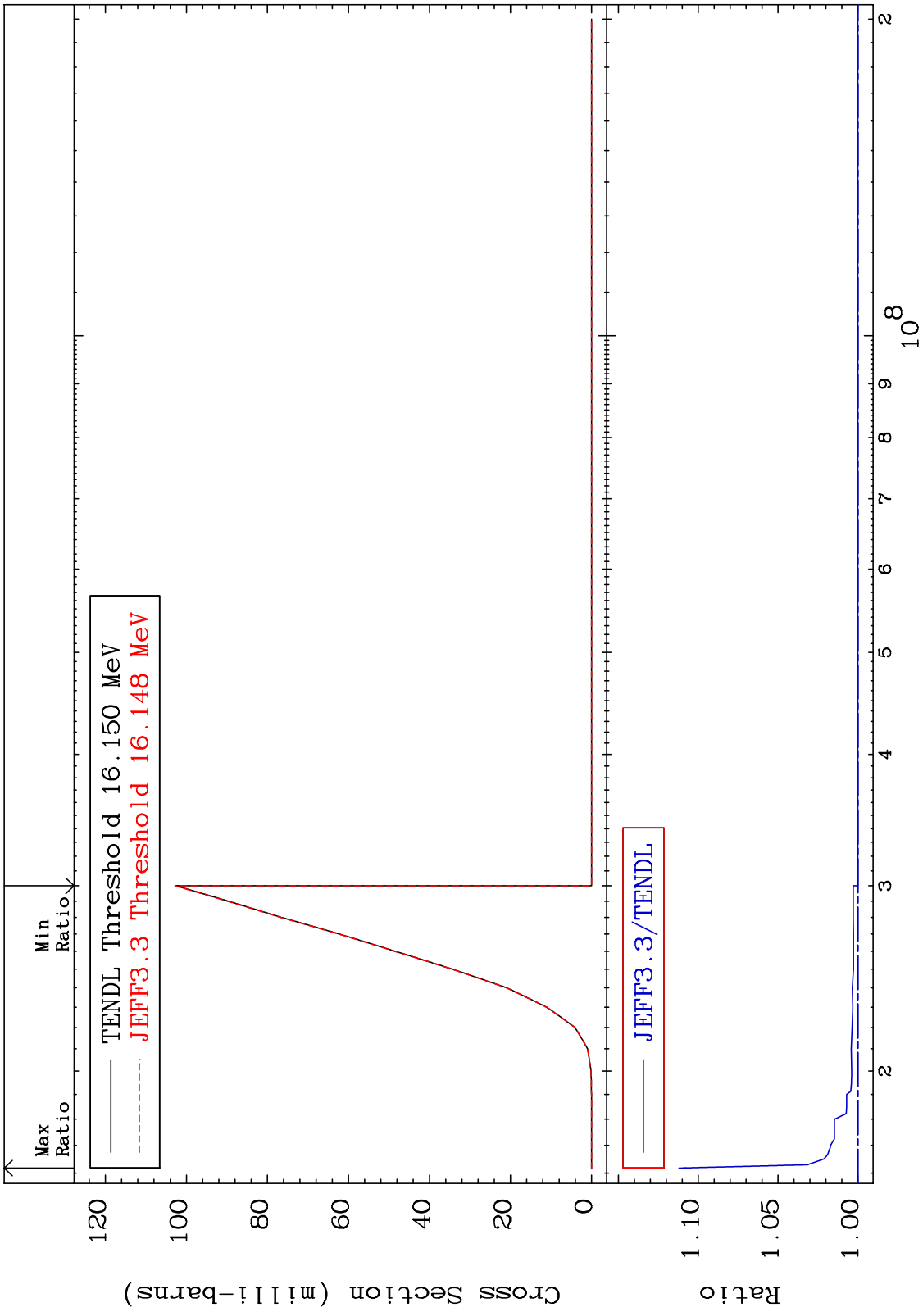
MAT 4440 (n, n') d:43-Tc-99g 44-Ru-101  
 Radionuclide Production Cross Section 0.000 To 3.924 %



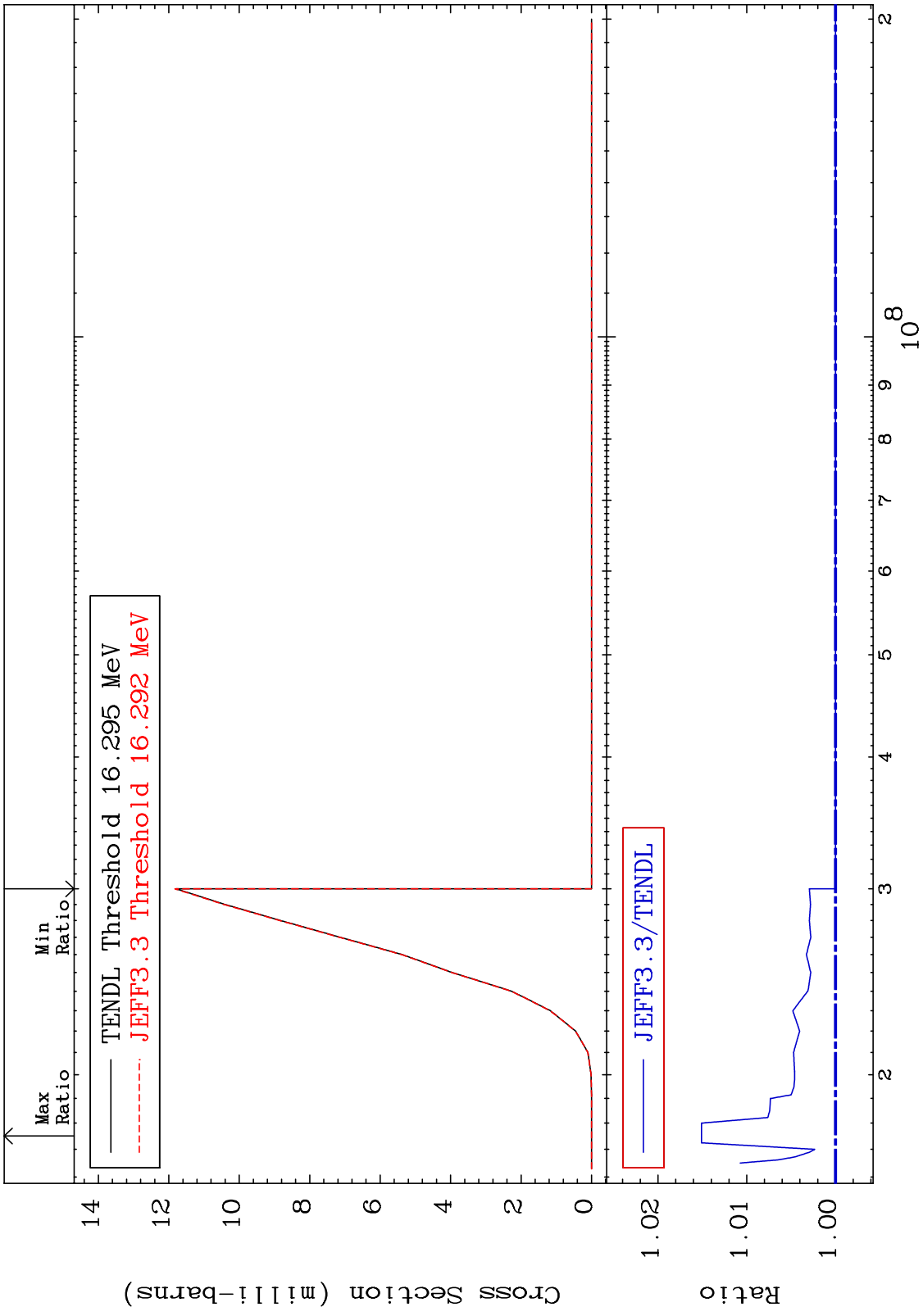
MAT 4440 (n, n') d:43-Tc-99m2 44-Ru-101  
 Radionuclide Production Cross Section 0.000 To 3.898 %



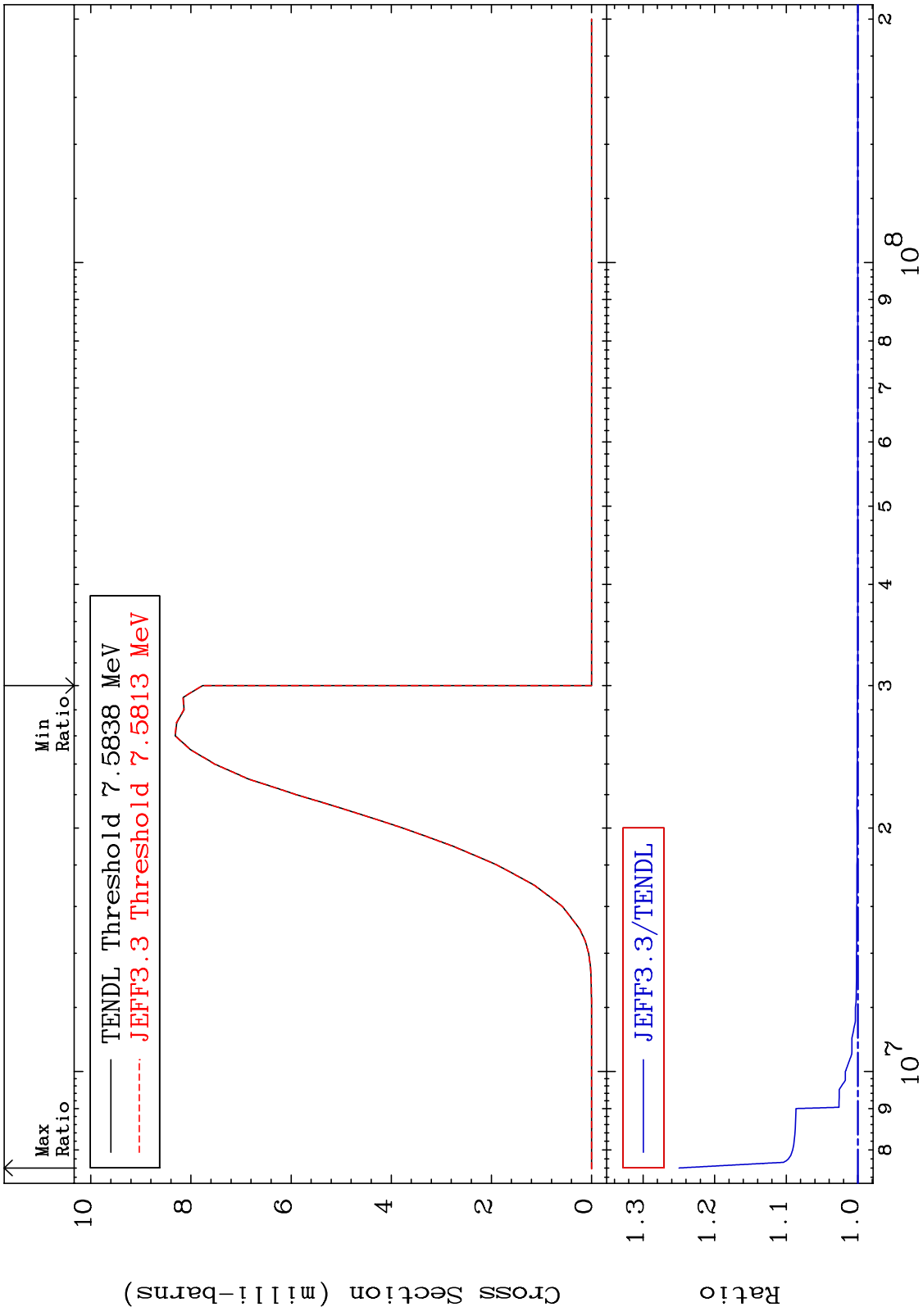
MAT 4440 (n,2n) p:43-Tc-99g 44-Ru-101  
 Radionuclide Production Cross Section 0.000 To 11.20 %



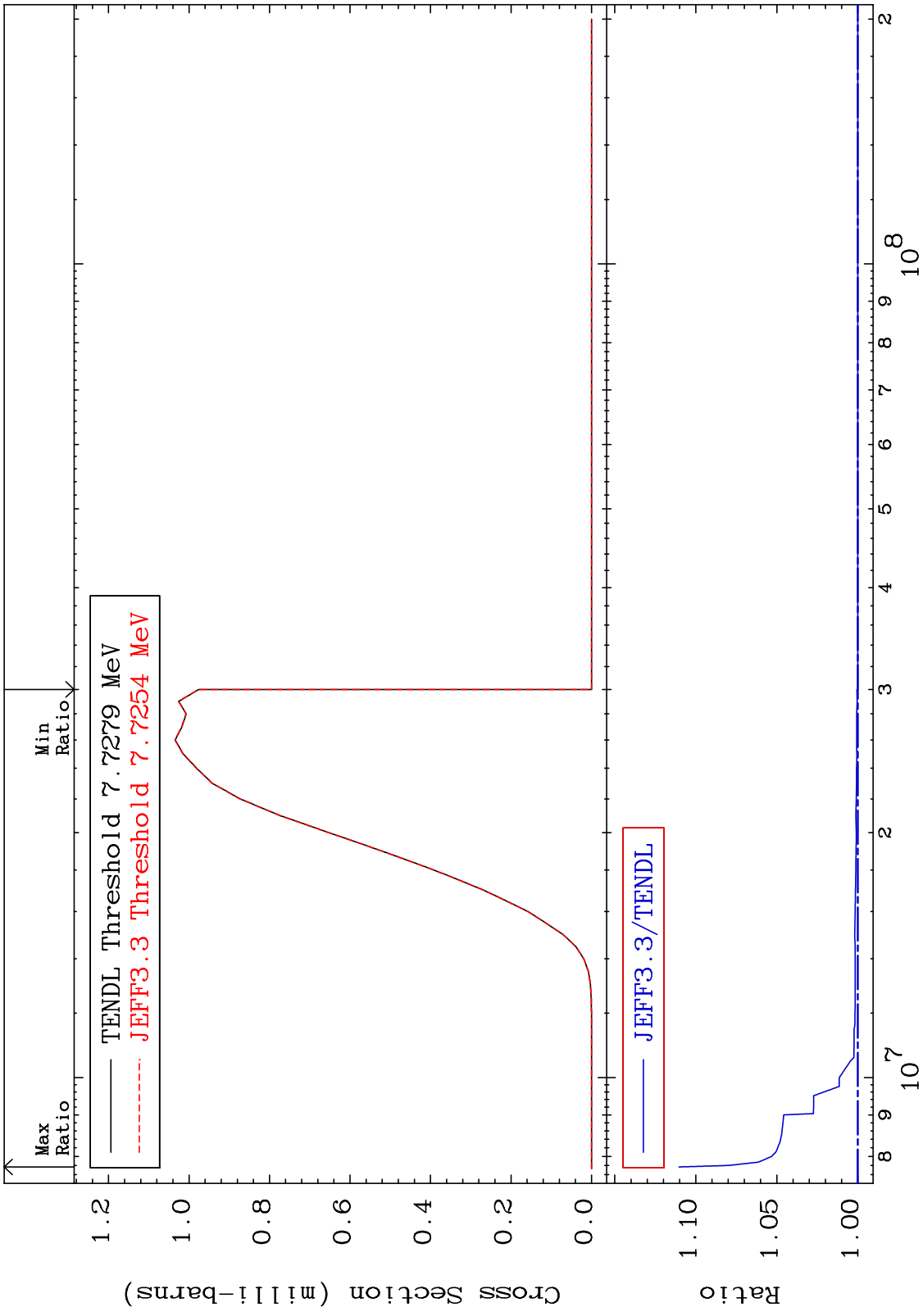
MAT 4440 (n,2n) p:43-Tc-99m2 44-Ru-101  
 Radionuclide Production Cross Section 0.000 To 1.510 %



MAT 4440 (n, t) : 43-Tc-99g 44-Ru-101  
 Radionuclide Production Cross Section 0.000 To 24.97 %



MAT 4440 (n, t) : 43-Tc-99m2 44-Ru-101  
 Radionuclide Production Cross Section 0.000 To 11.03 %

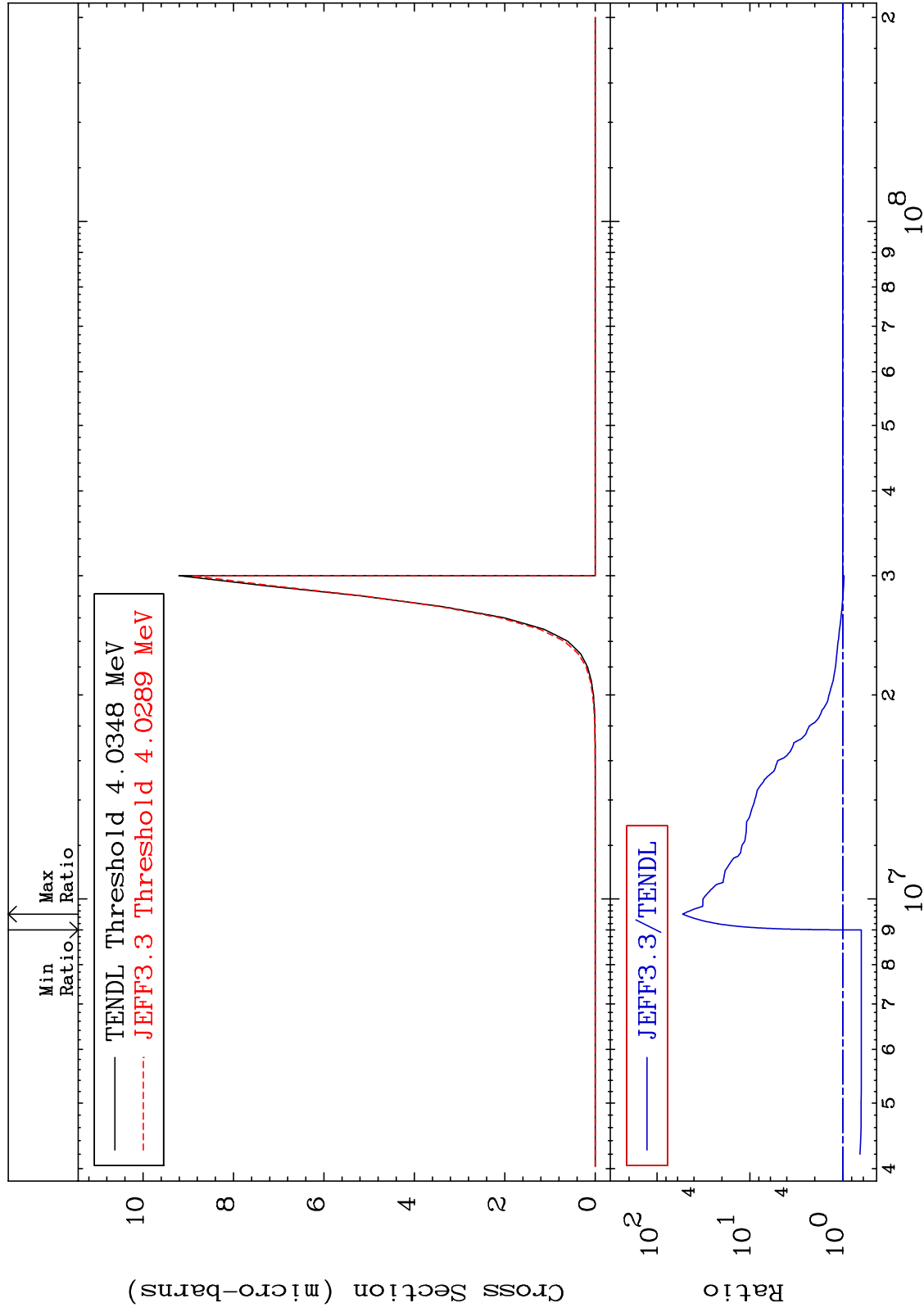


MAT 4440

(n, p)  $\alpha$ : 41-Nb-97g

44-Ru-101

Radionuclide Production Cross Section -37.01 To 5186. %



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Incident Energy (eV)

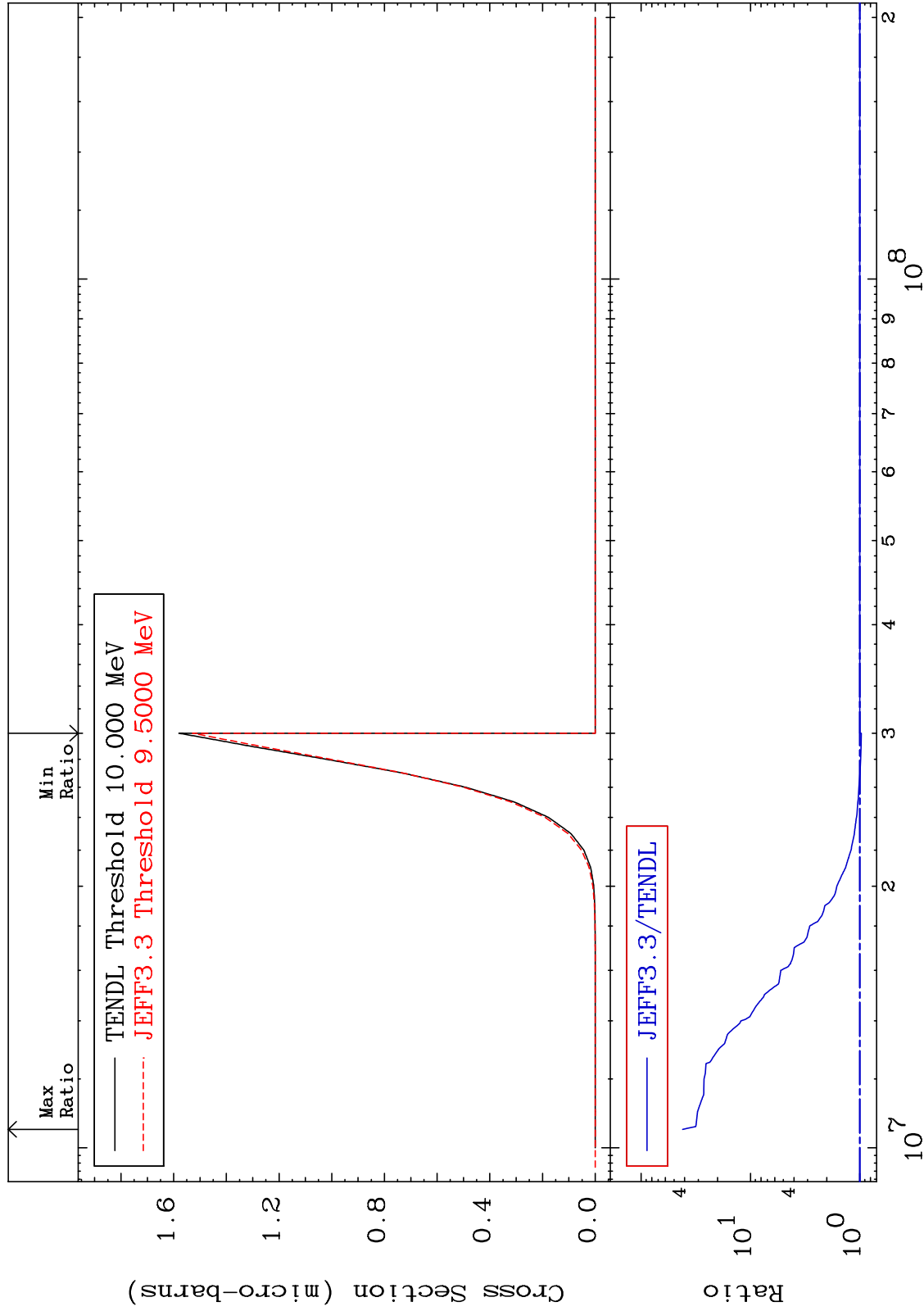
44-Ru-101

MAT 4440

(n, p)  $\alpha$ : 41-Nb-97m1

44-Ru-101

Radionuclide Production Cross Section -3.240 To 4067. %



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Incident Energy (eV)

44-Ru-101