

Program Complot  
(Version 2018-1)

by

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(Present Contact Information)

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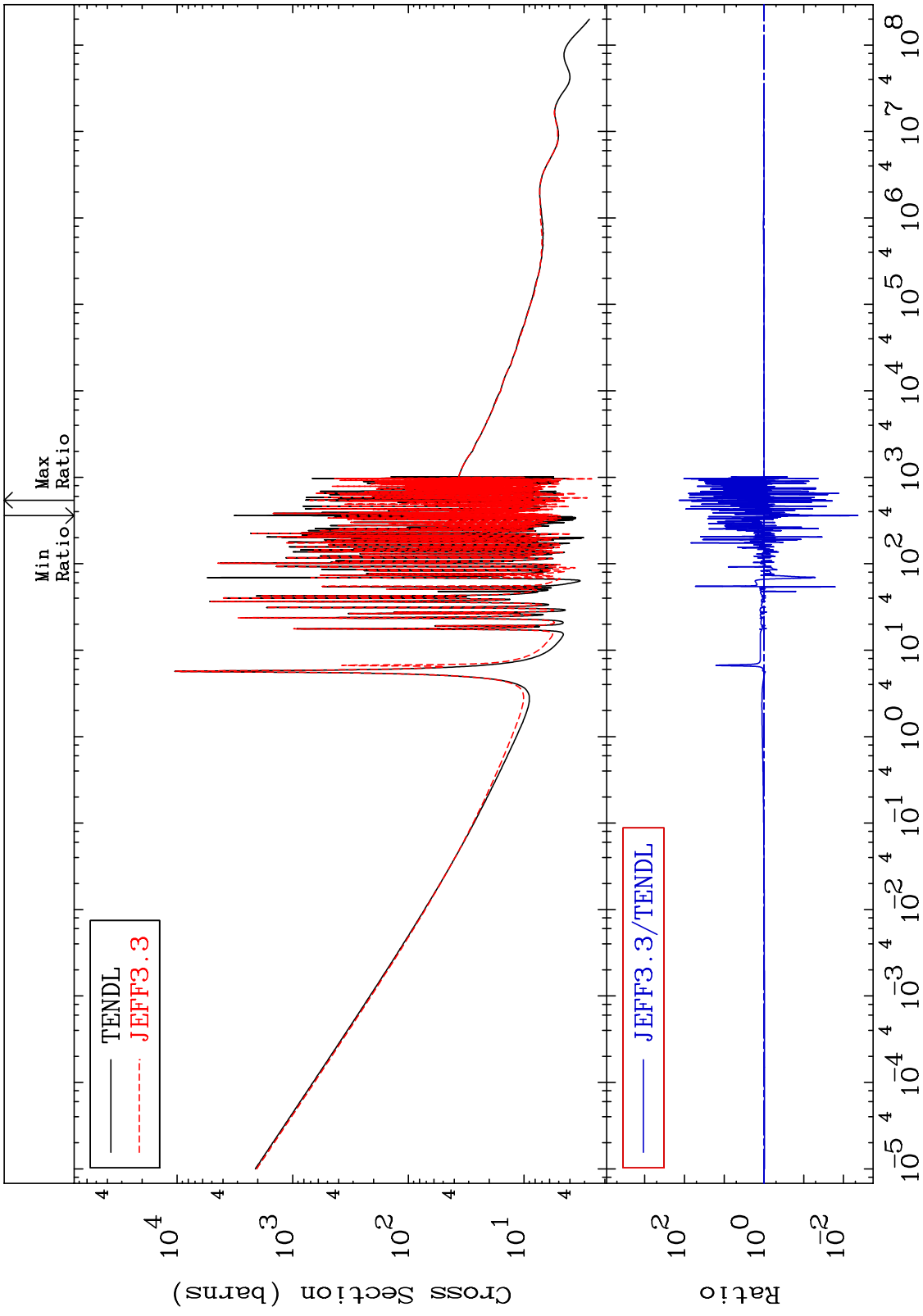
U.S.A.

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Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 7240 72-Hf-179  
Total Cross Section -99.57 To 9999. %

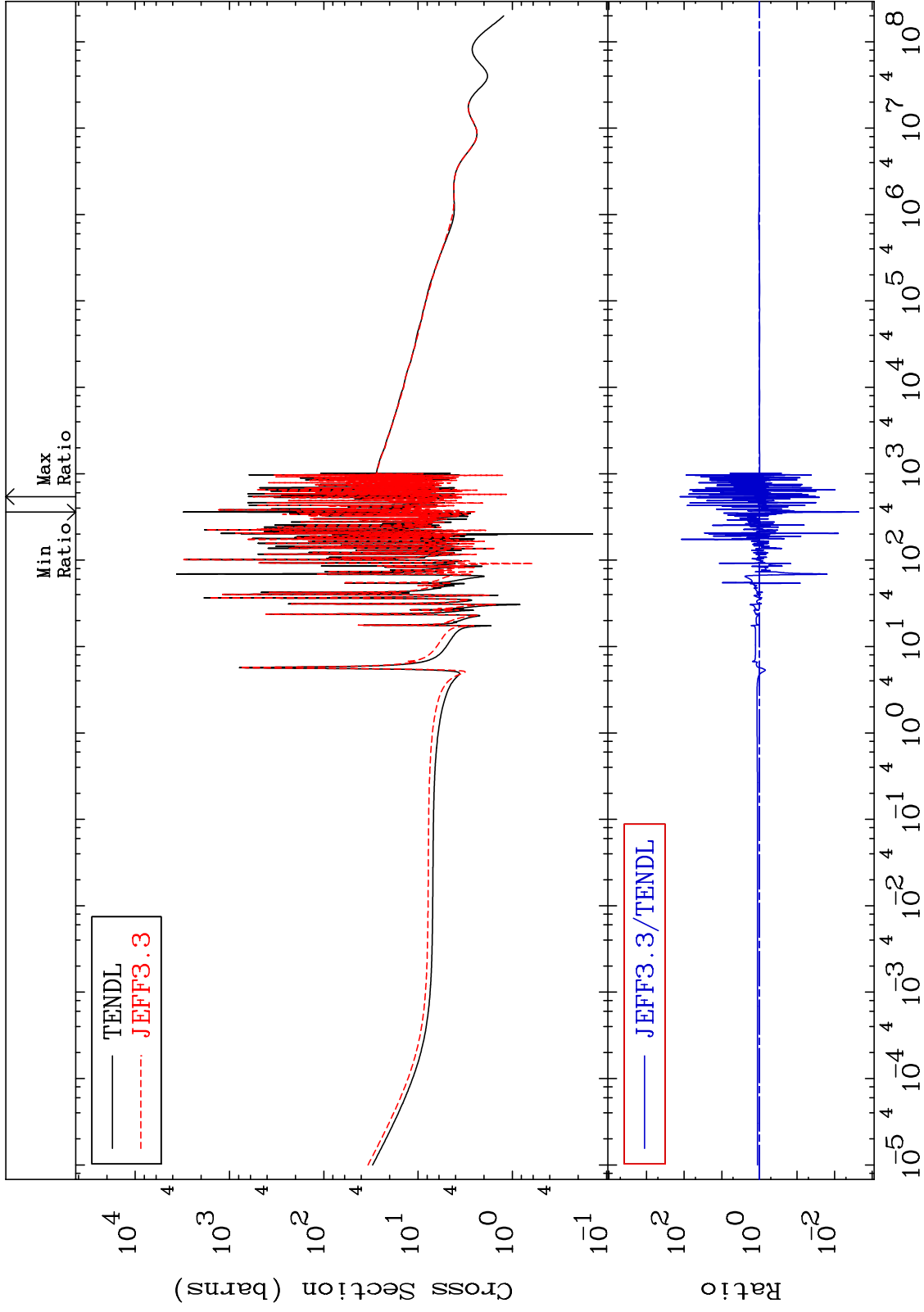


1 72-Hf-179

MAT 7240

Elastic  
Cross Section

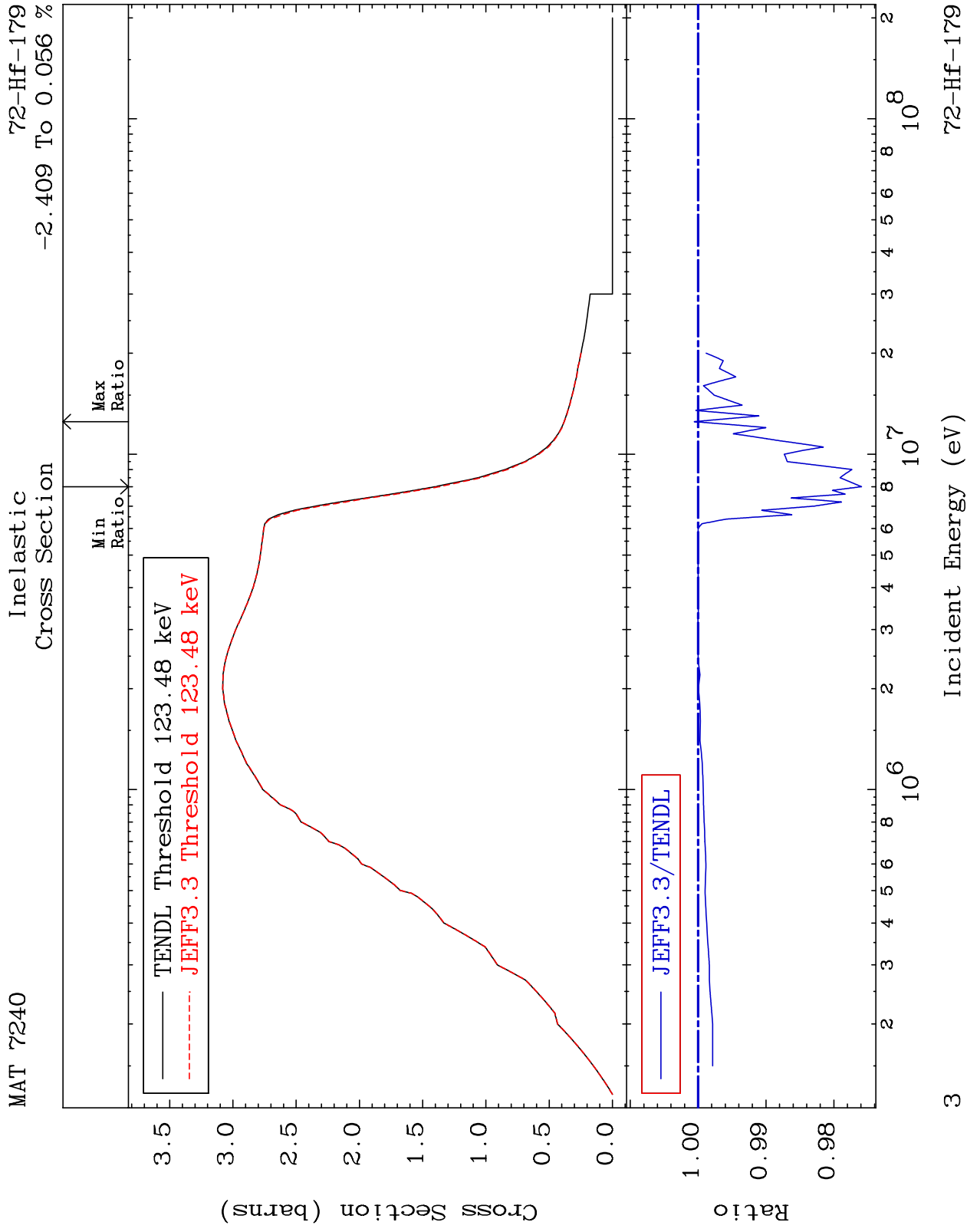
72-Hf-179  
-99.77 To 9999. %



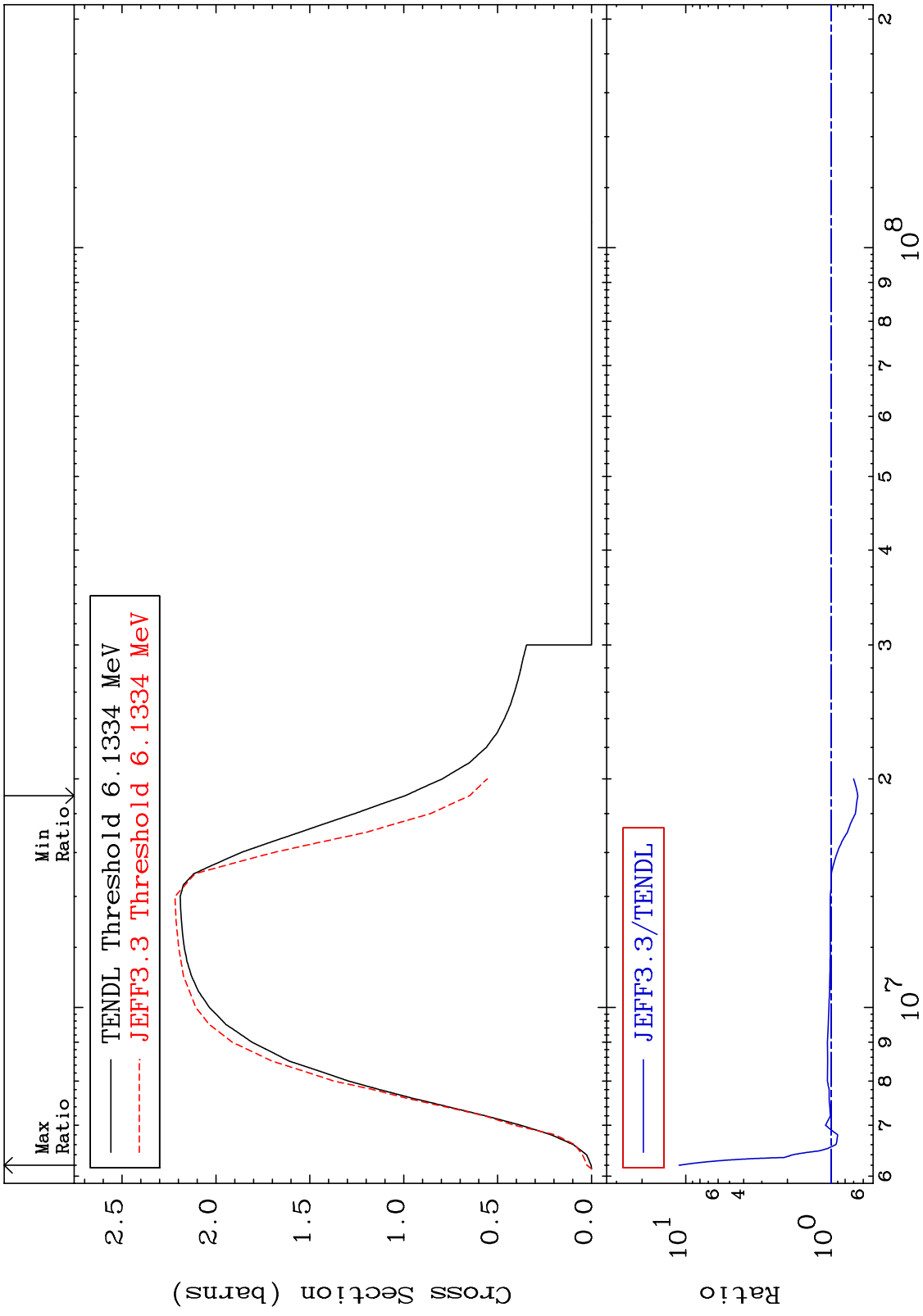
2

Incident Energy (eV)

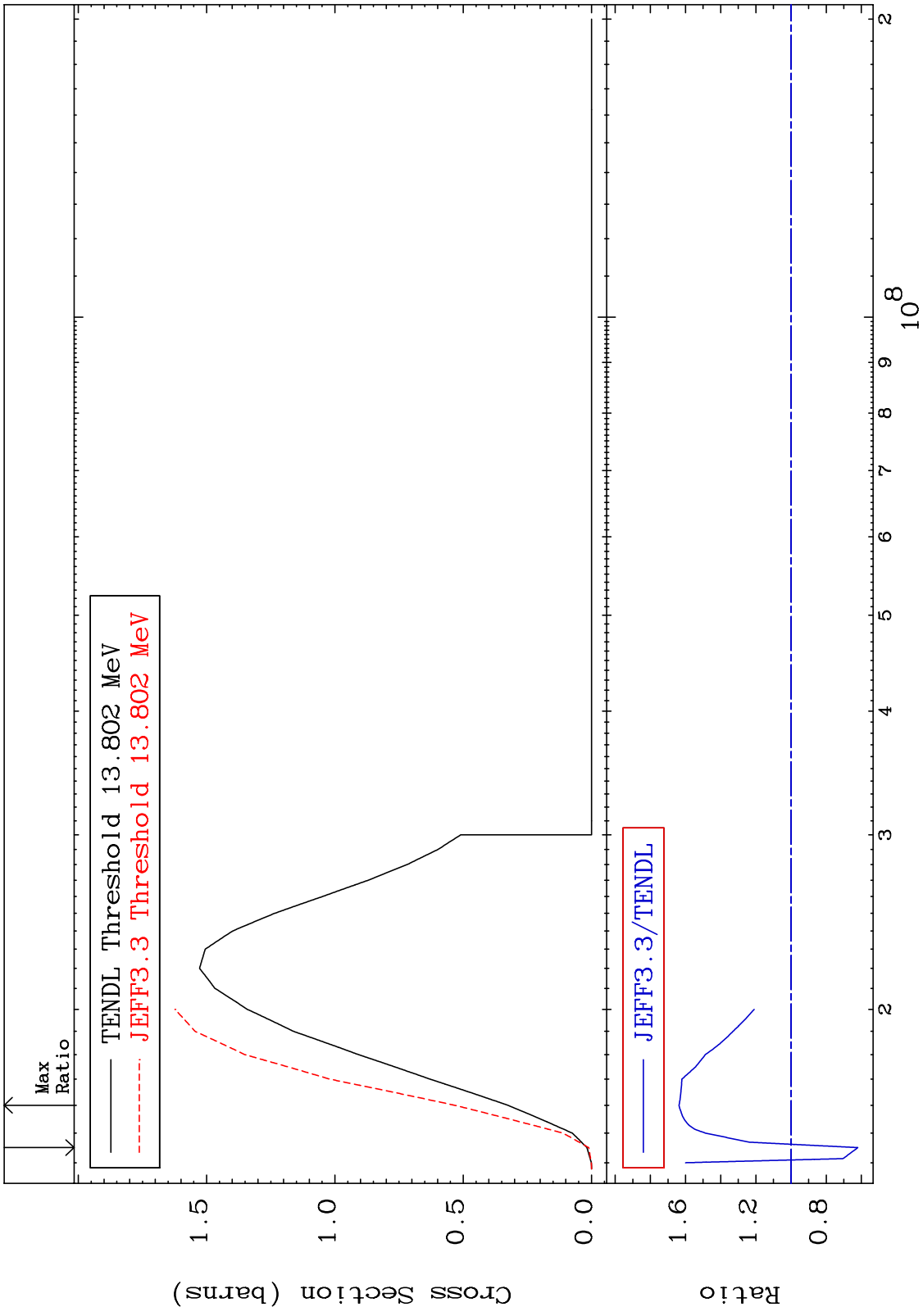
72-Hf-179



MAT 7240  $(n,2n)$  Cross Section 72-Hf-179  
-34.60 To 1013. %



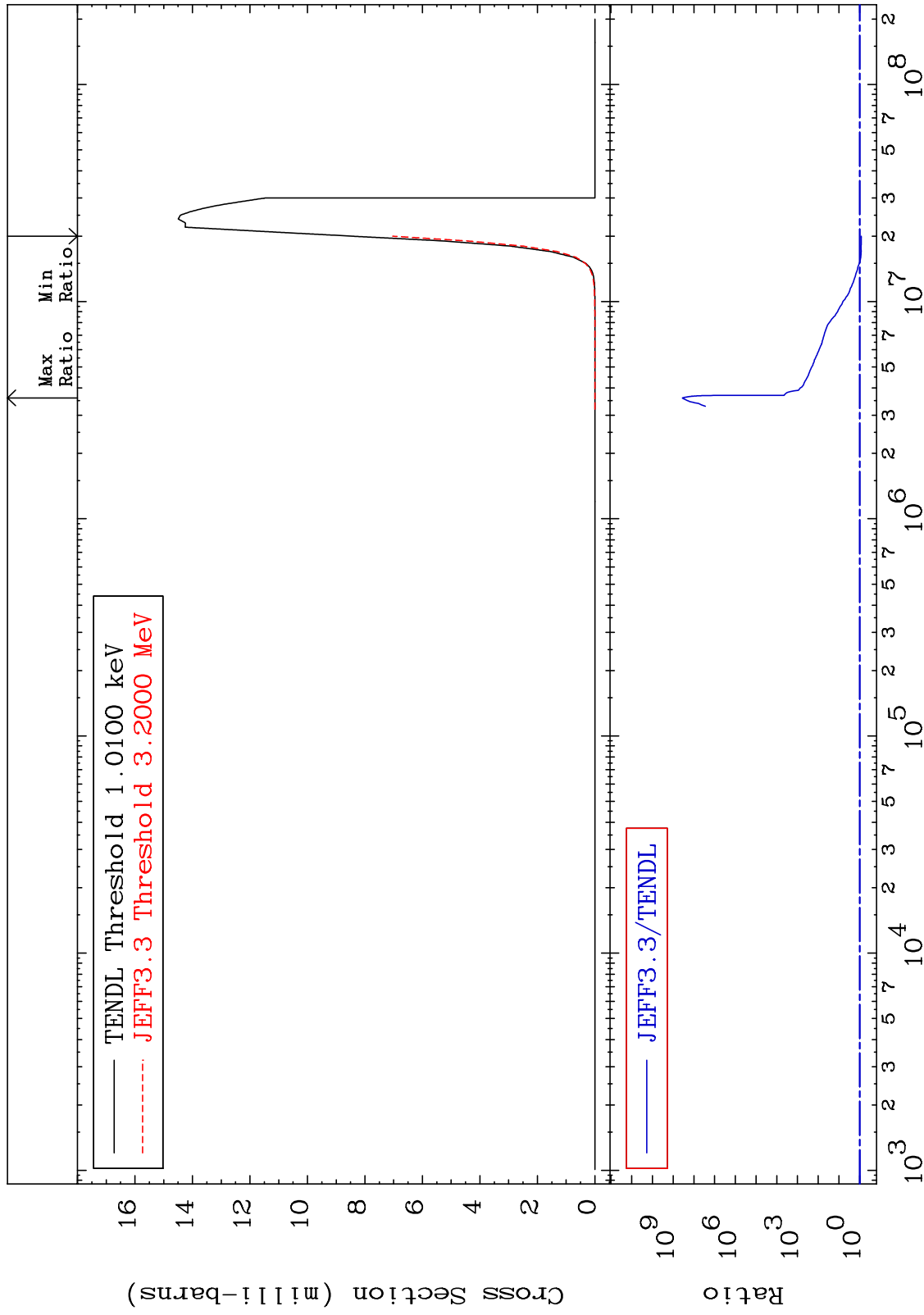
MAT 7240 (n,3n) Cross Section 72-Hf-179 -37.99 To 63.70 %



MAT 7240

$(n, n') \alpha$   
Cross Section

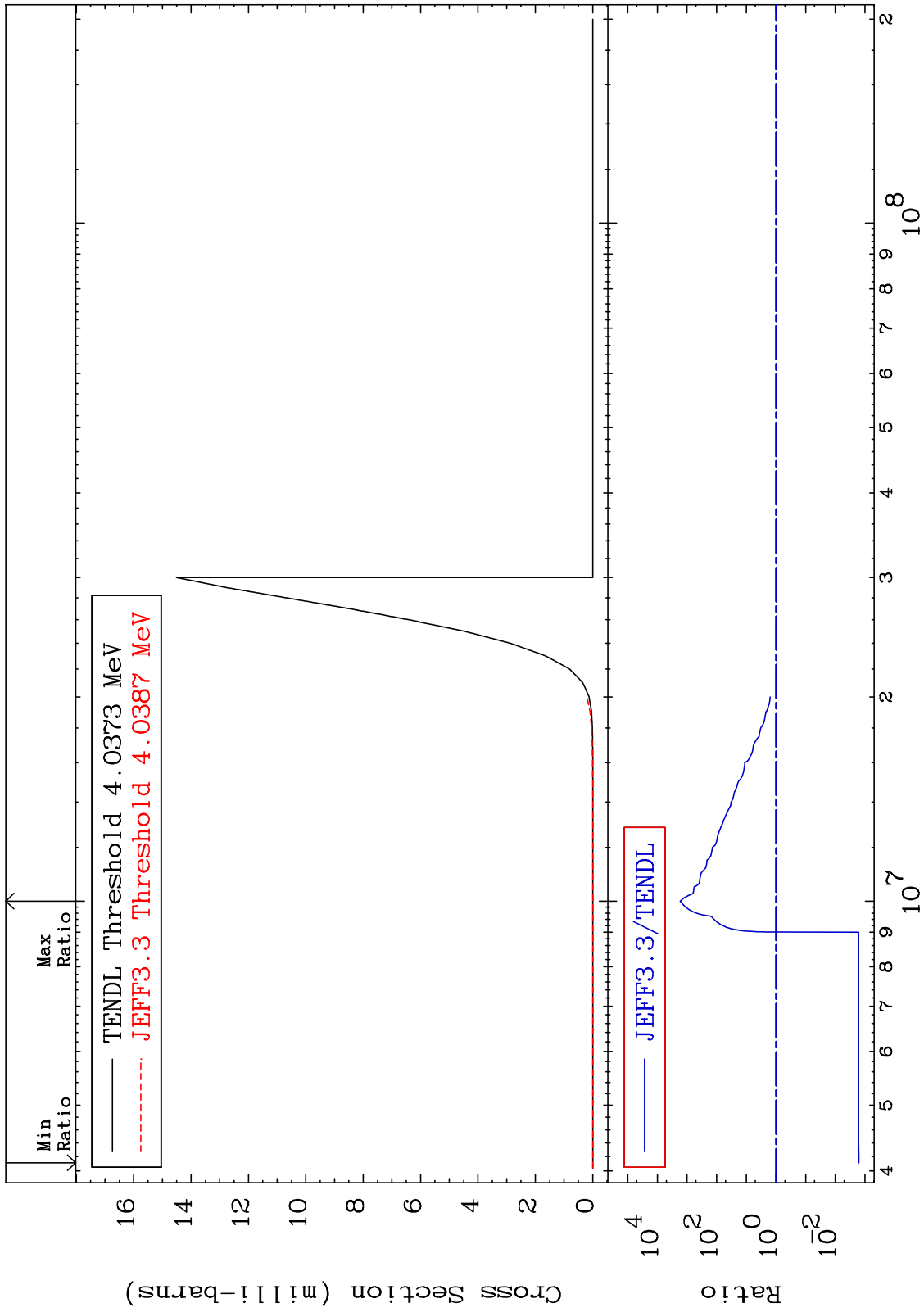
72-Hf-179  
-16.55 To 9999. %



6

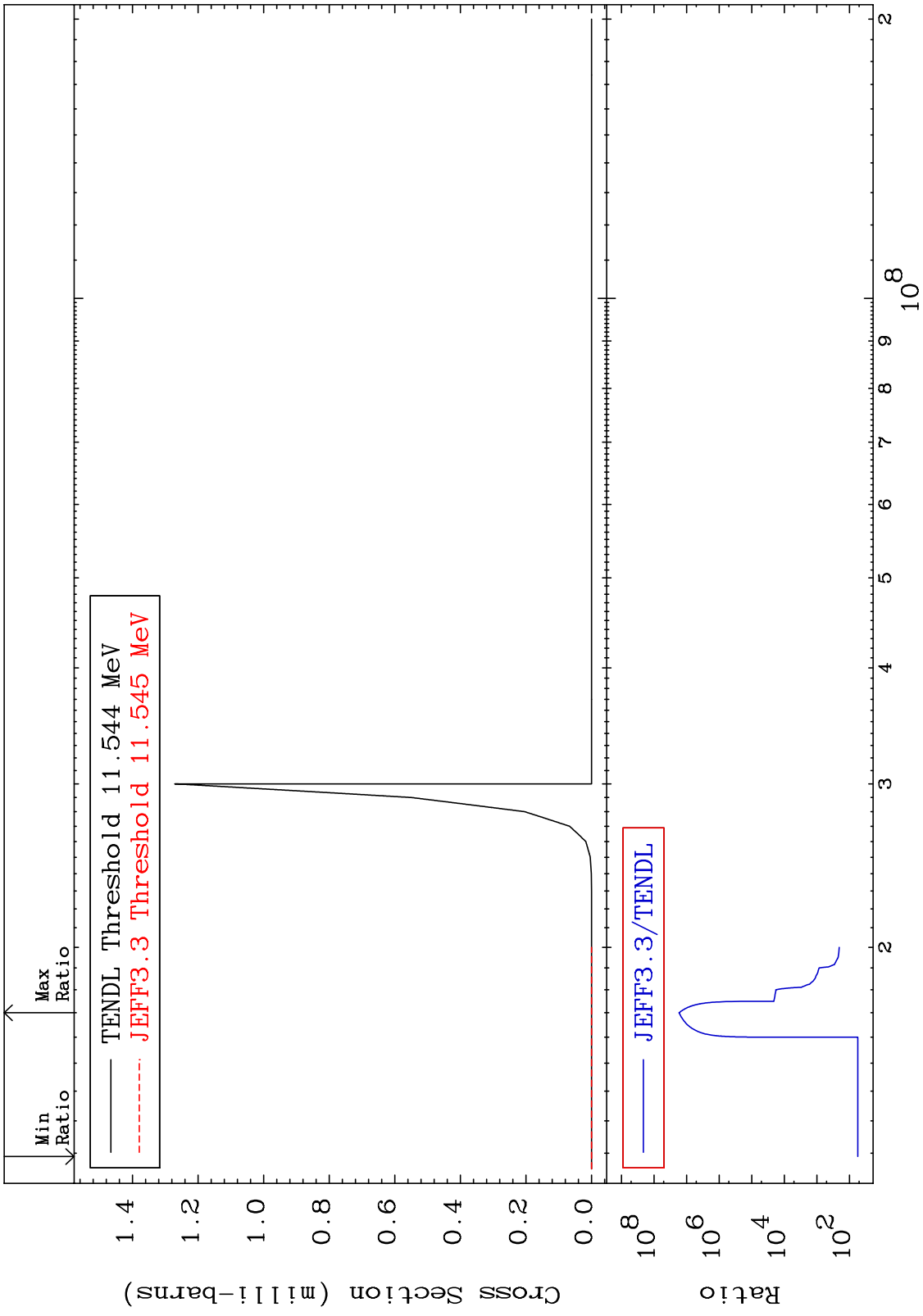
Incident Energy (eV)

72-Hf-179

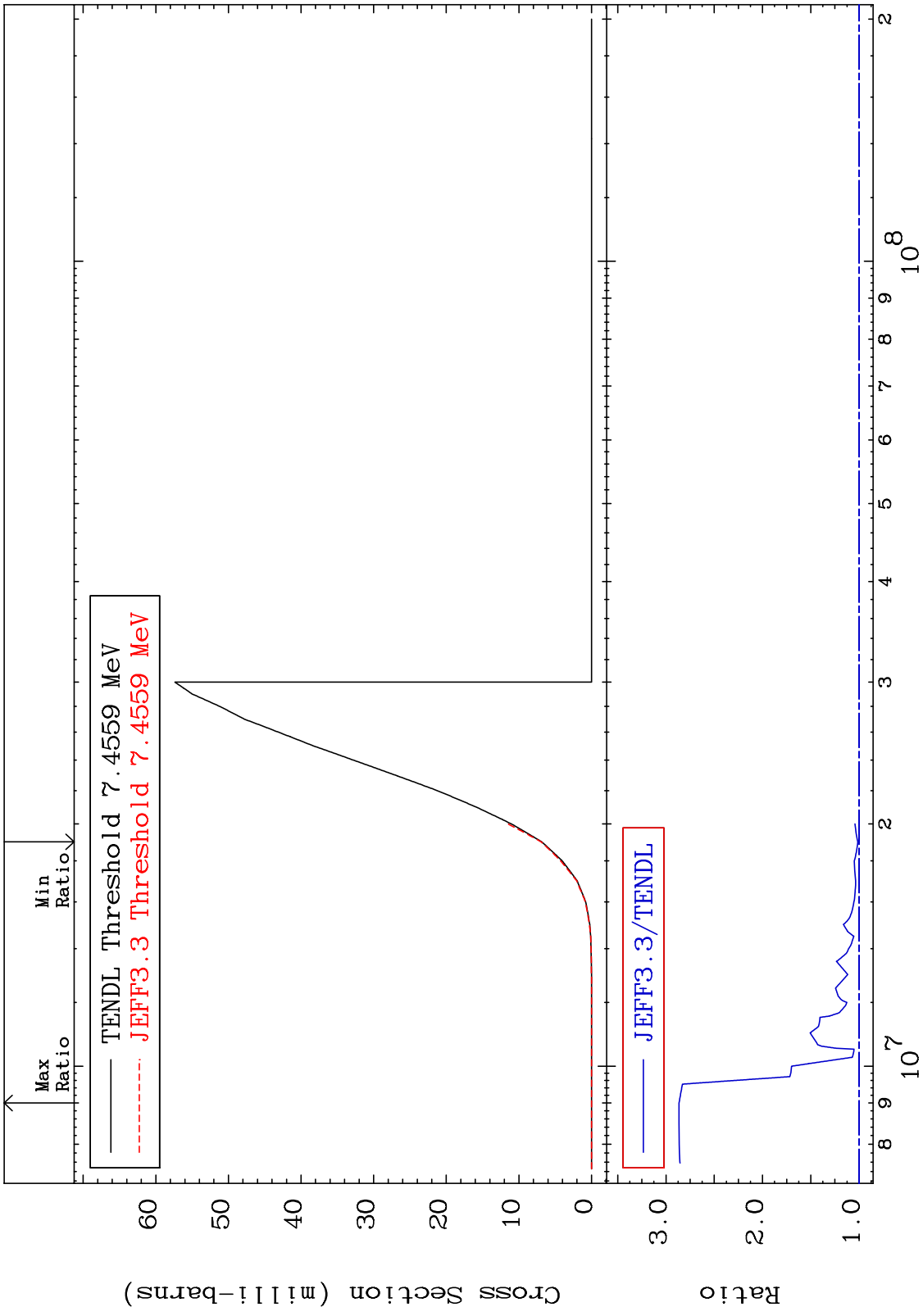




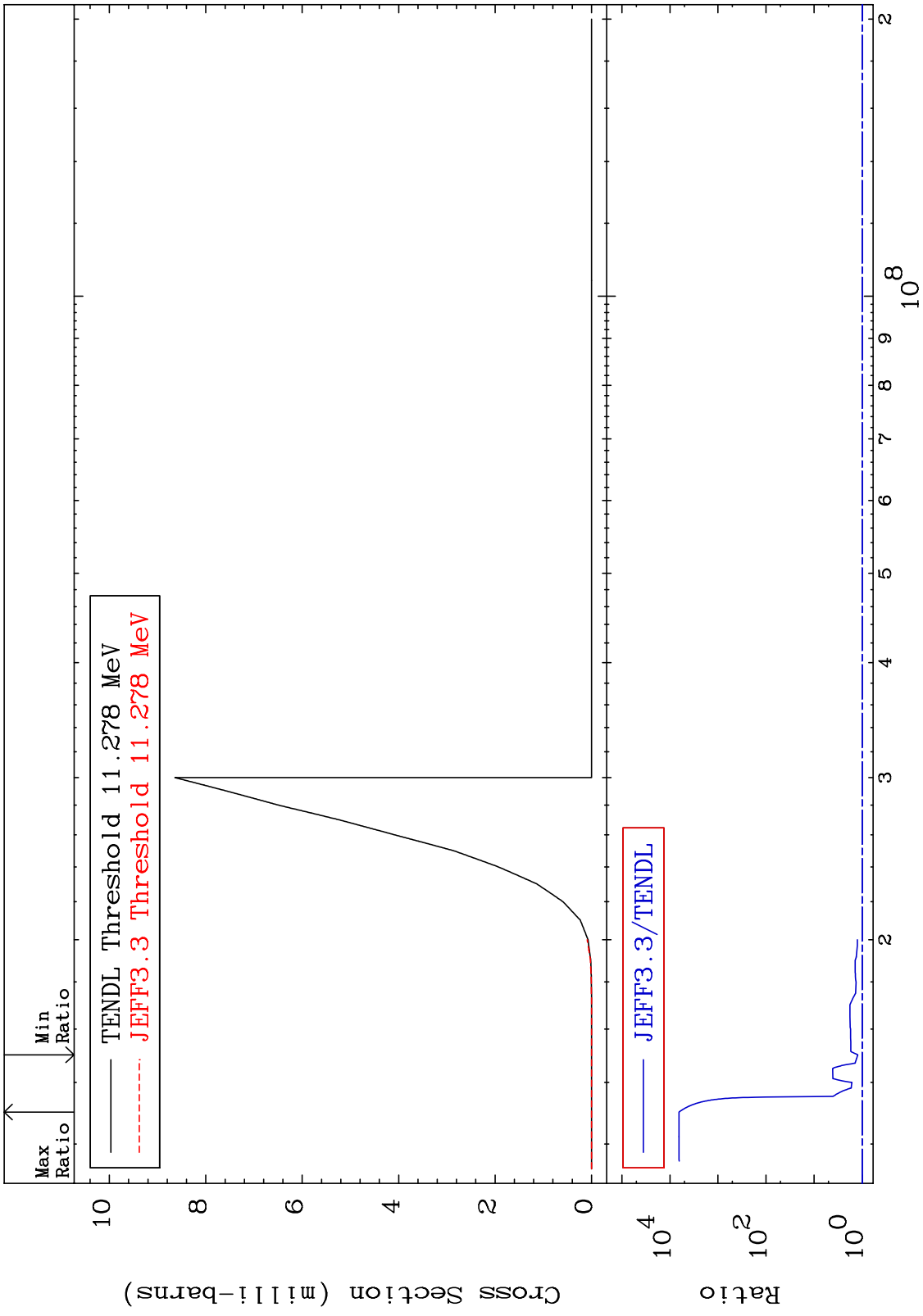
MAT 7240 (n,3n)  $\alpha$  72-Hf-179  
 Cross Section 5408. To 9999. %



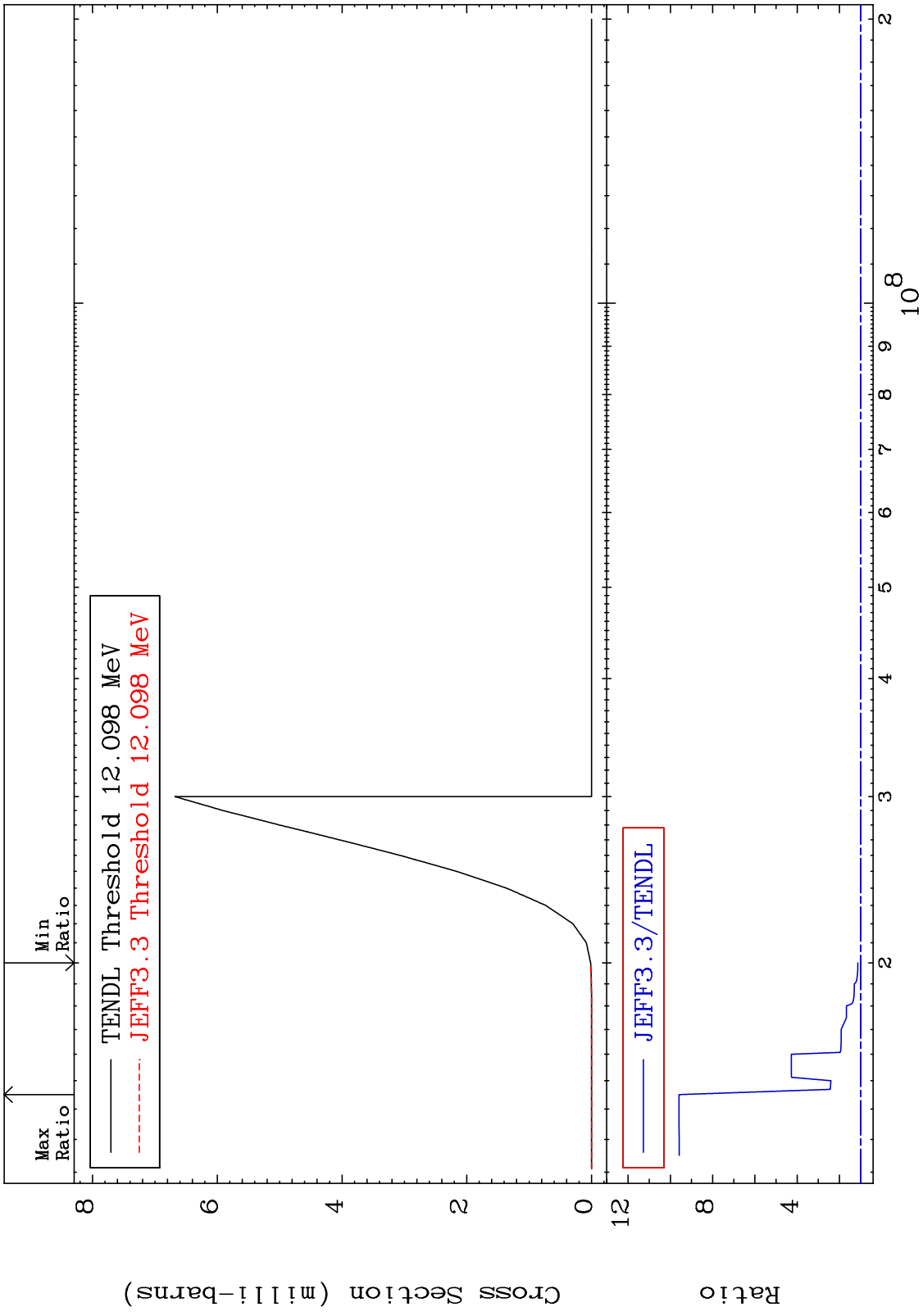
MAT 7240 (n,n') p 72-Hf-179  
 Cross Section 1.242 To 186.5 %



9 Incident Energy (eV) 72-Hf-179

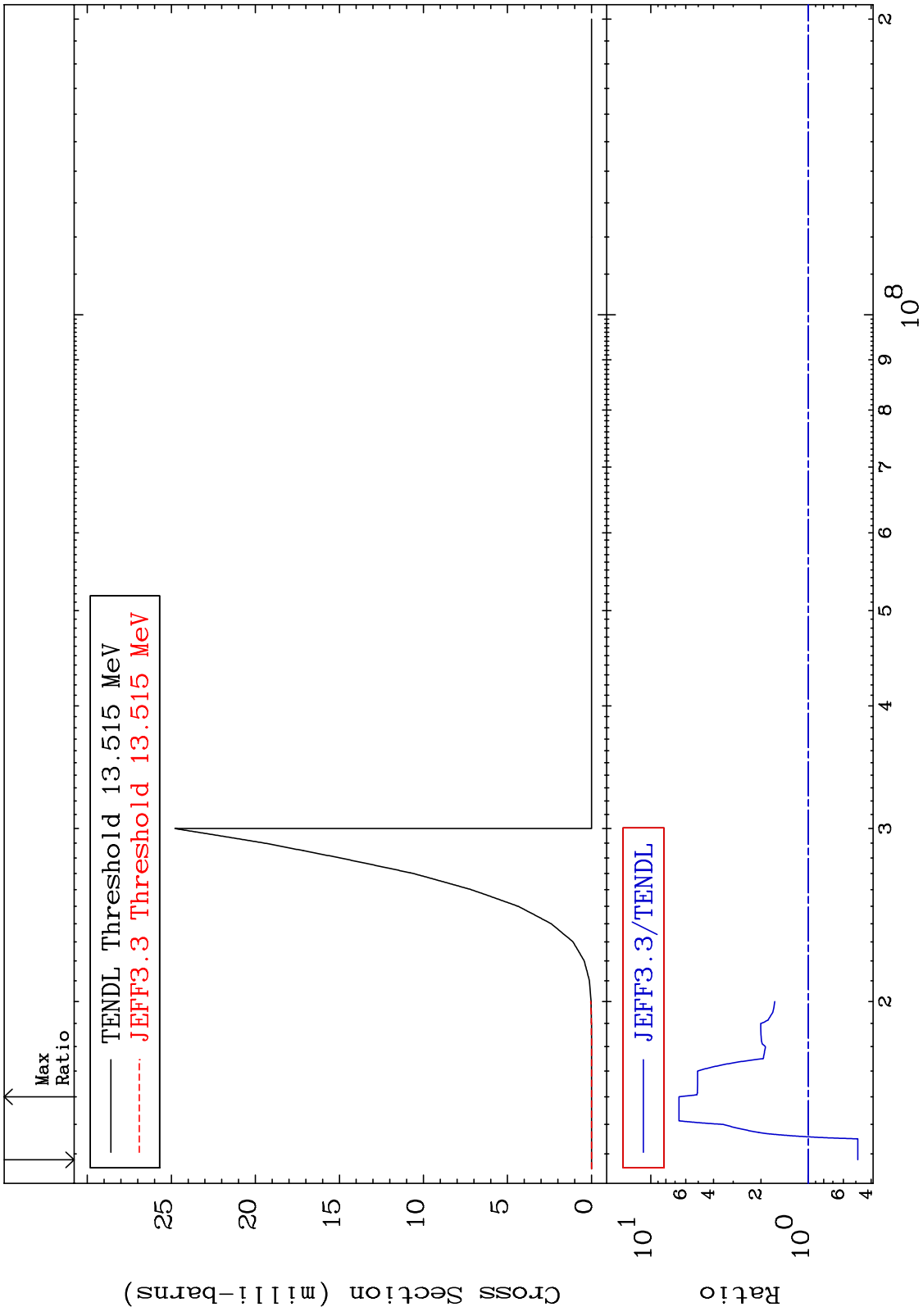


MAT 7240 (n, n') t 72-Hf-179  
 Cross Section 12.88 To 858.8 %

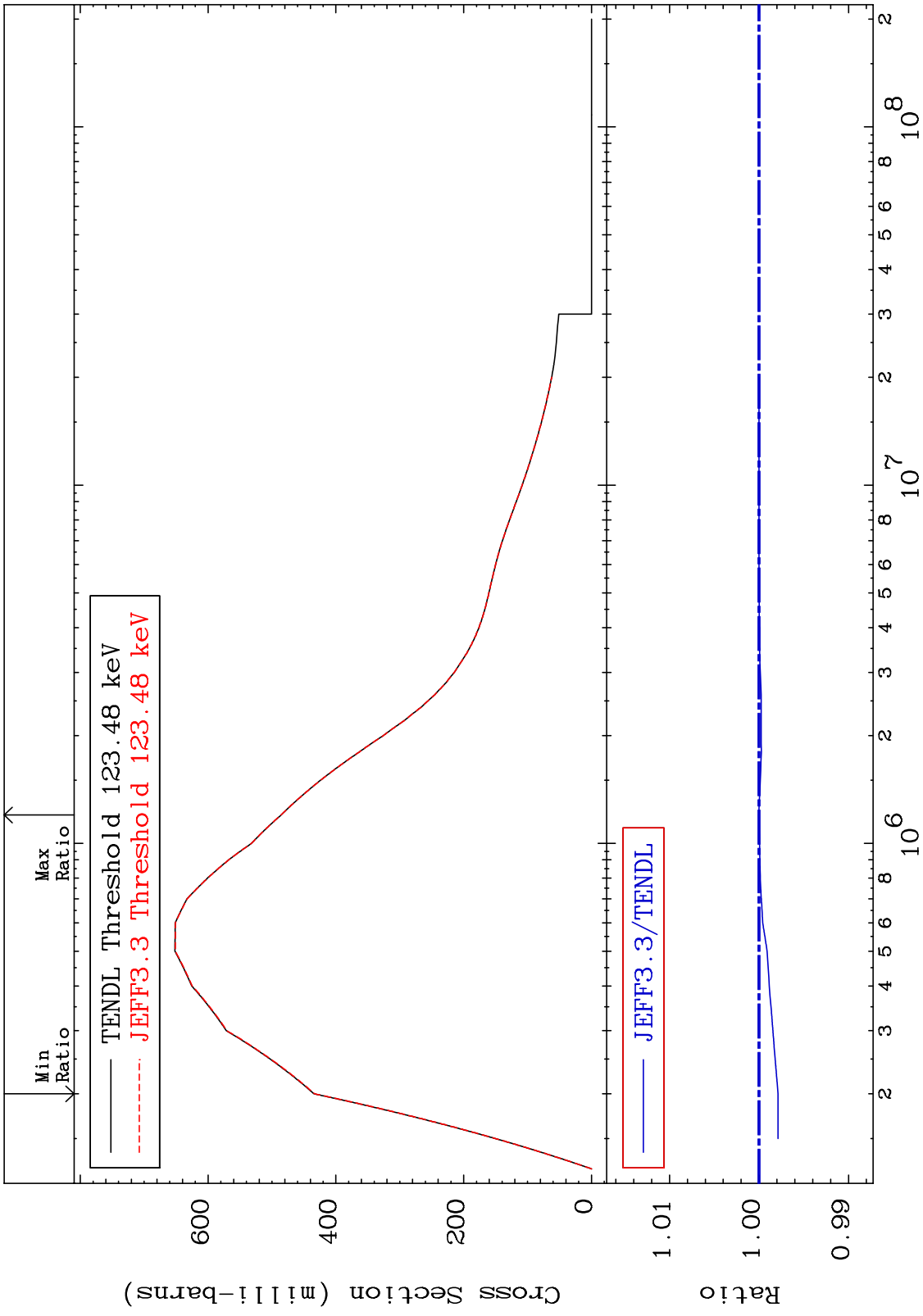


11 Incident Energy (eV) 72-Hf-179

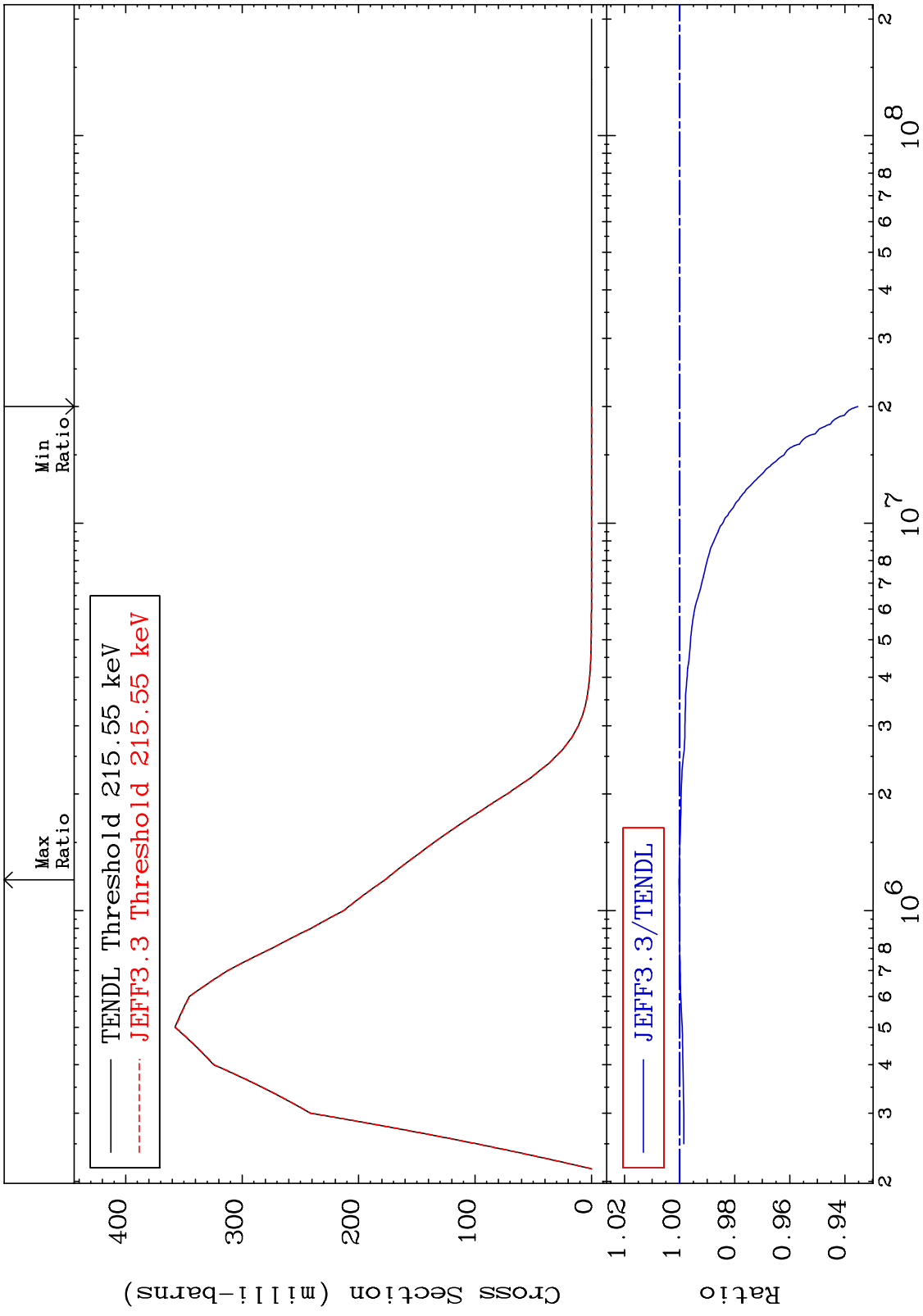
MAT 7240 (n,2n) p 72-Hf-179  
 Cross Section -51.40 To 560.9 %



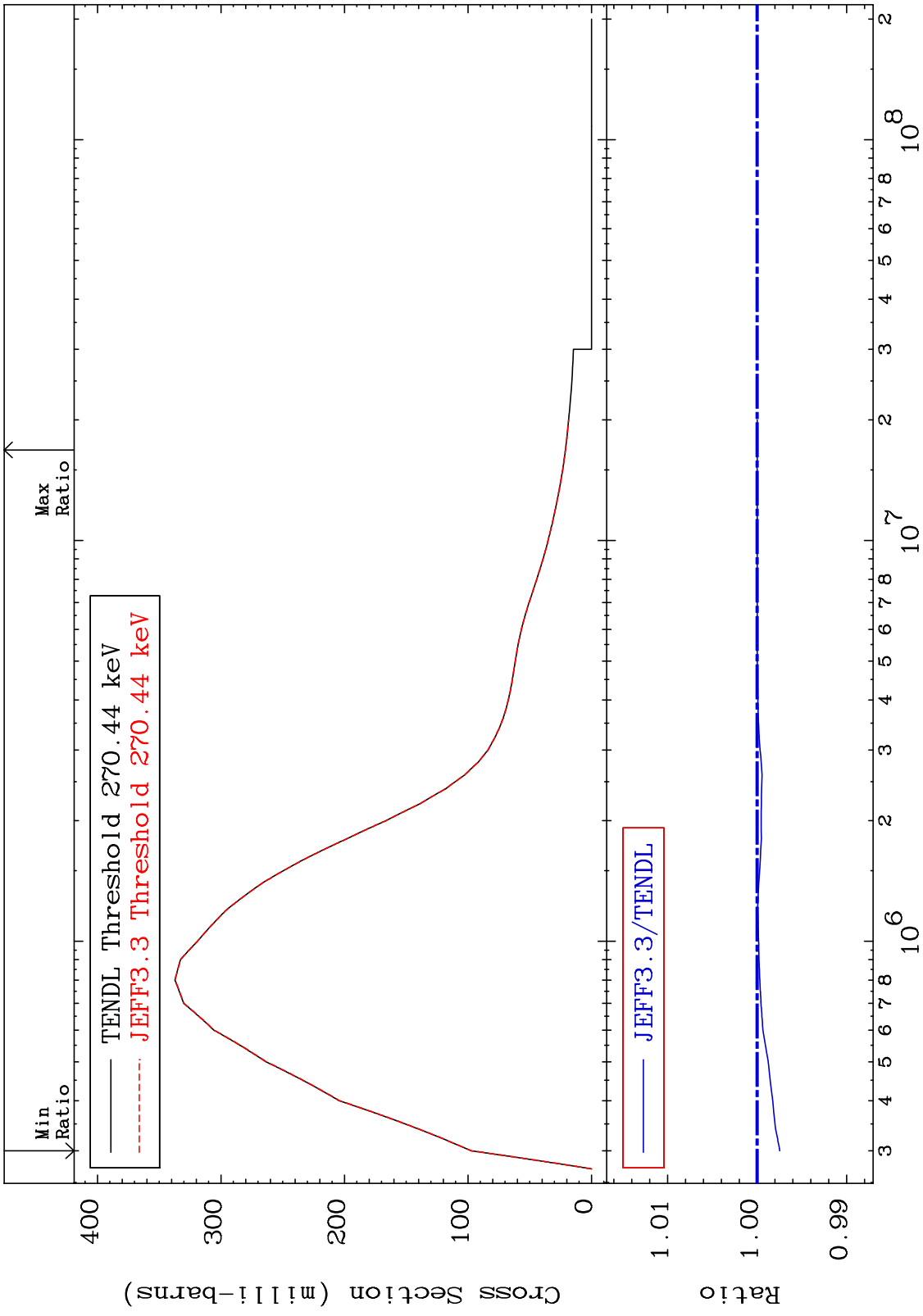
MAT 7240 MT= 51 (n,n') Level Cross Section 72-Hf-179  
 -0.213 To 0.002 %



MAT 7240 MT= 52 (n,n') Level Cross Section 72-Hf-179  
 -6.468 To 0.020 %

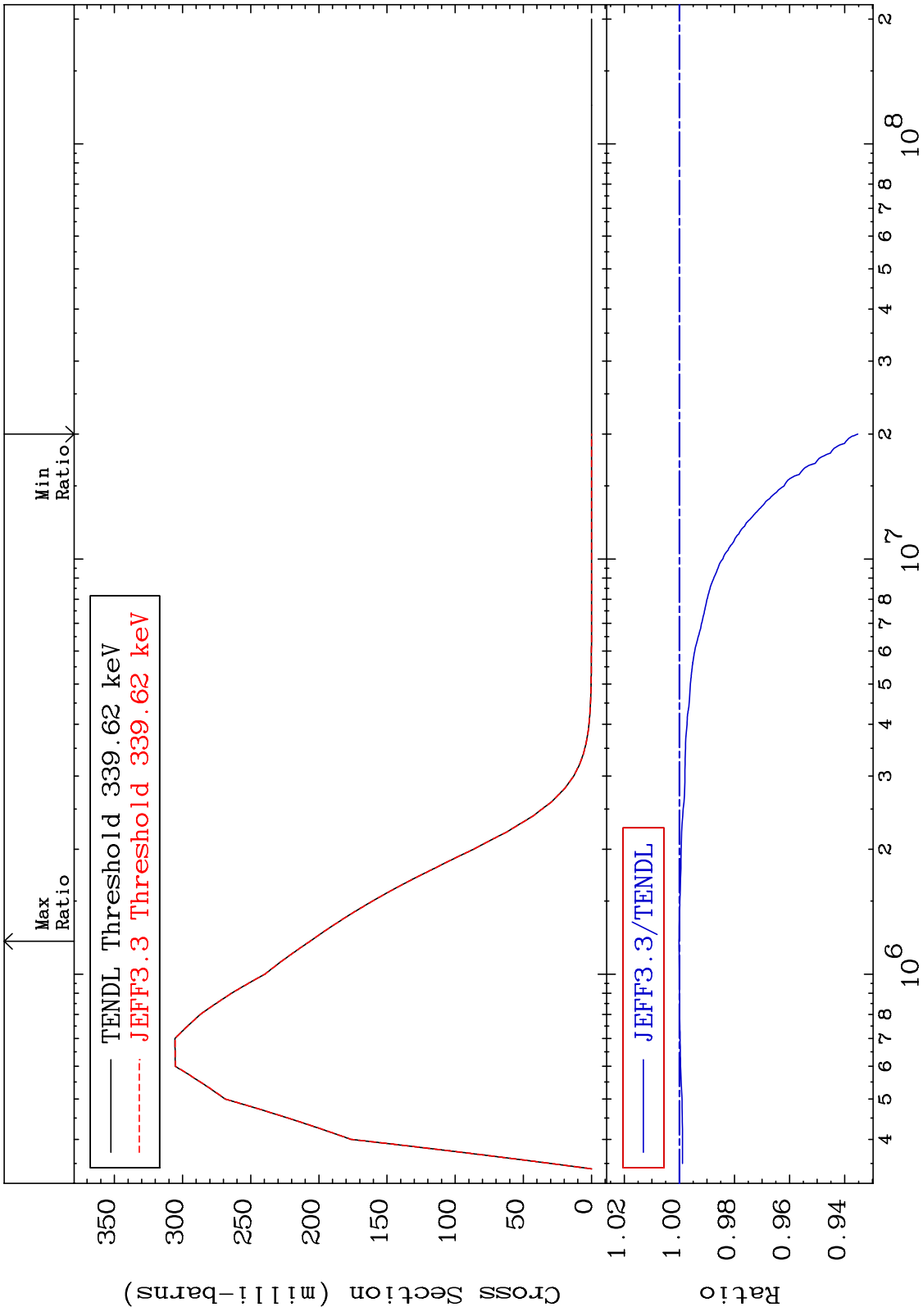


MAT 7240 MT= 53 (n,n') Level Cross Section 72-Hf-179  
 -0.253 To 0.000 %

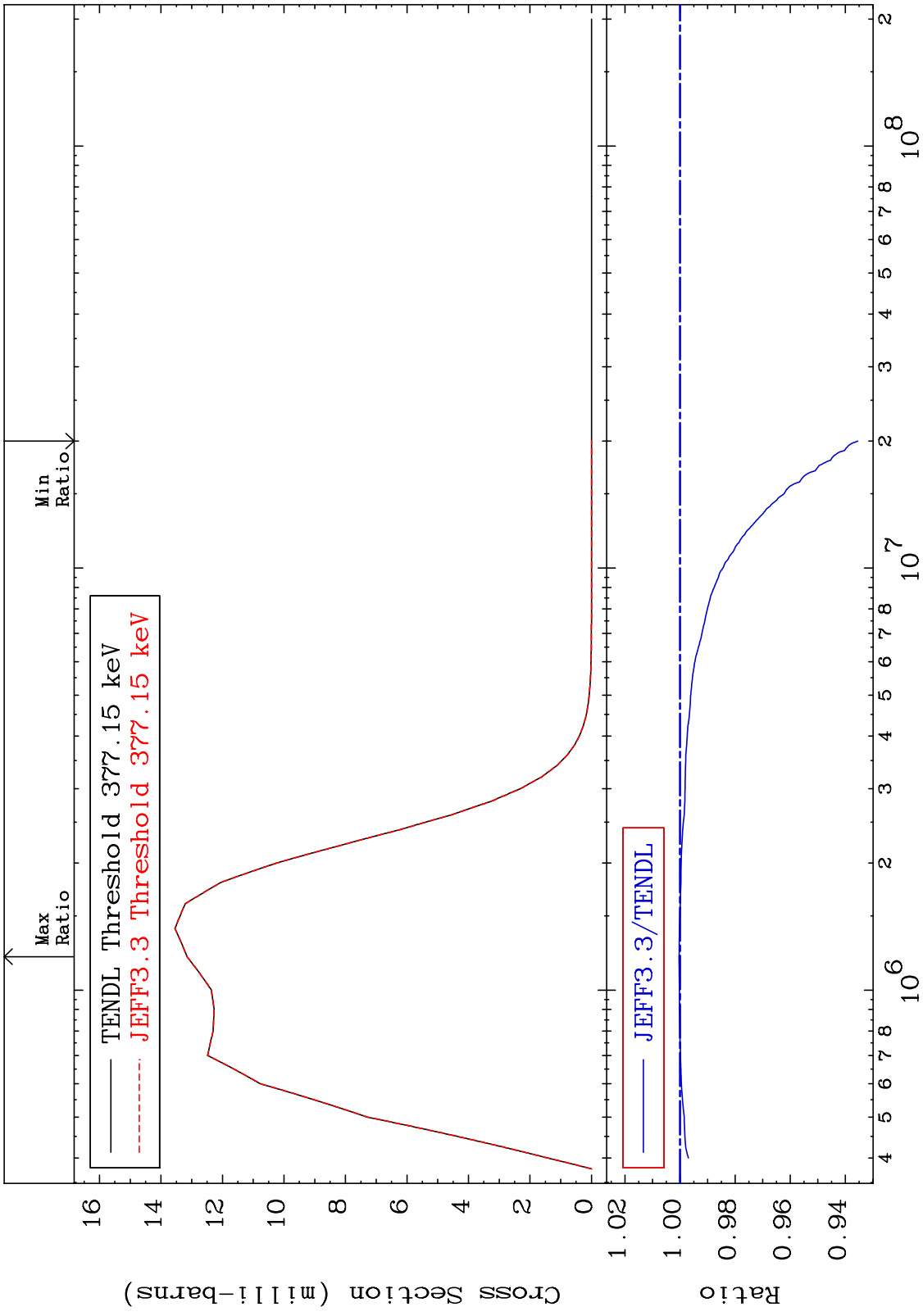




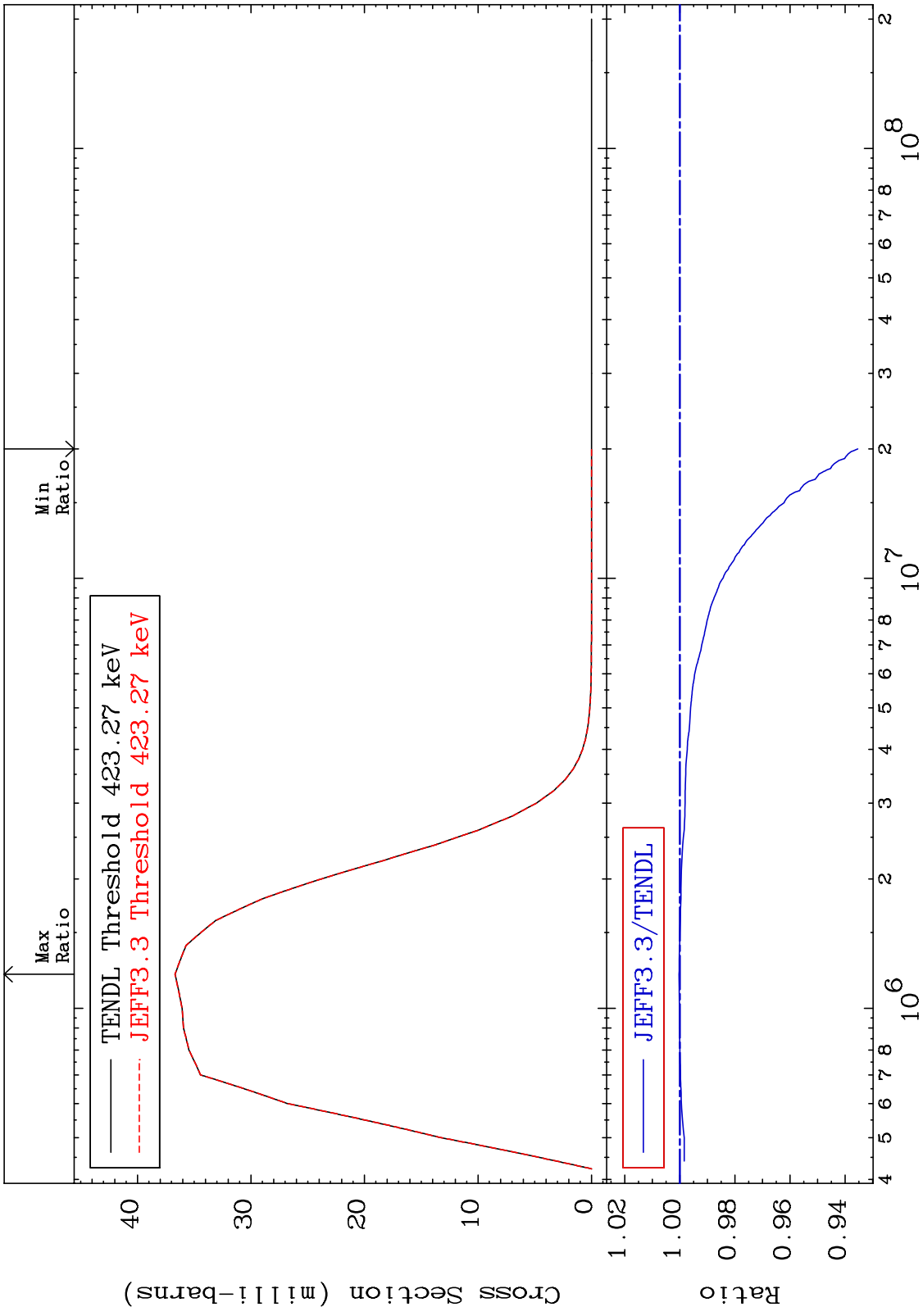
MAT 7240 MT= 54 (n,n') Level Cross Section 72-Hf-179  
 -6.474 To 0.013 %



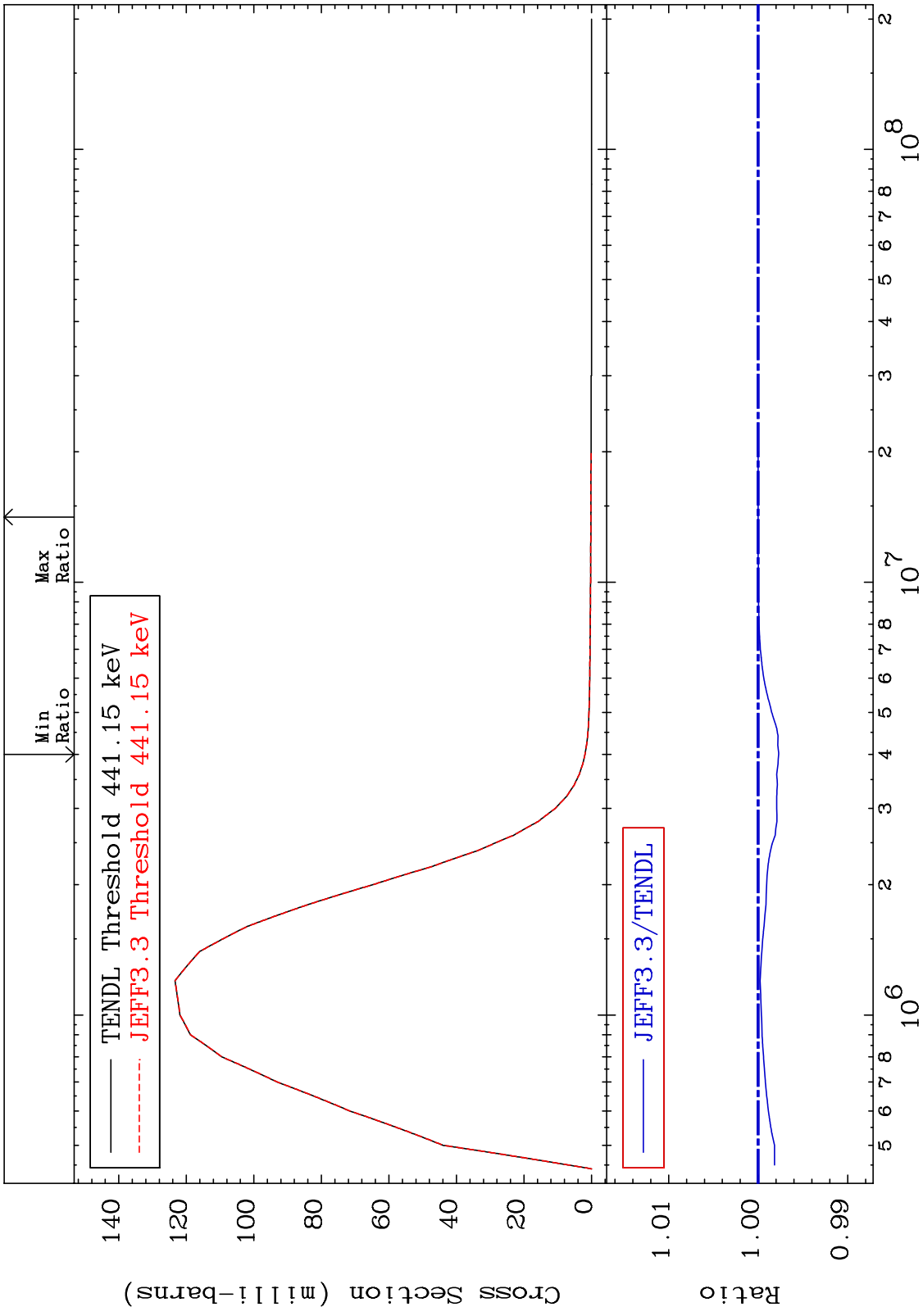
MAT 7240 MT= 55 (n,n') Level Cross Section 72-Hf-179  
 -6.457 To 0.034 %



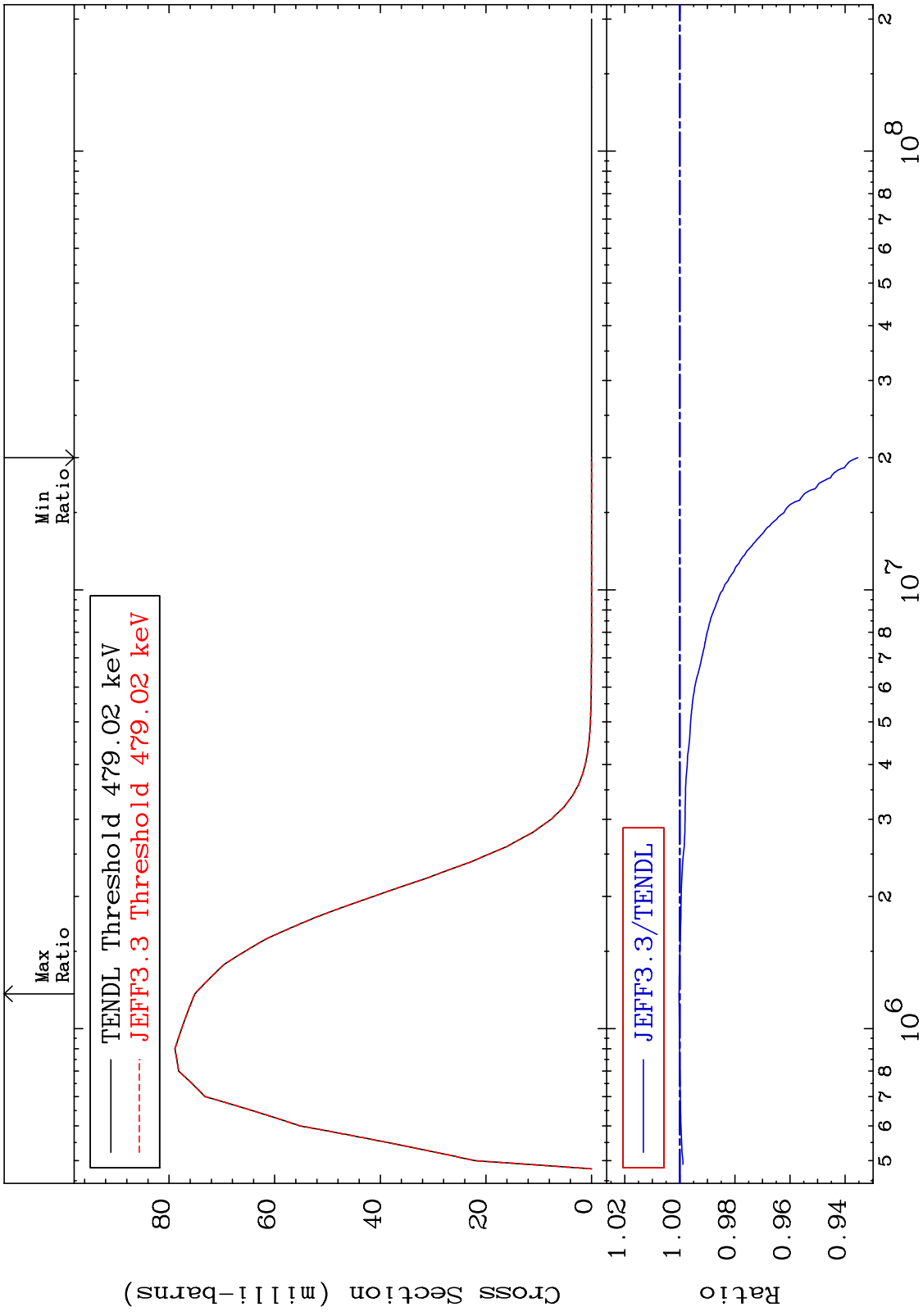
MAT 7240 MT= 56 (n,n') Level Cross Section 72-Hf-179  
 -6.459 To 0.031 %



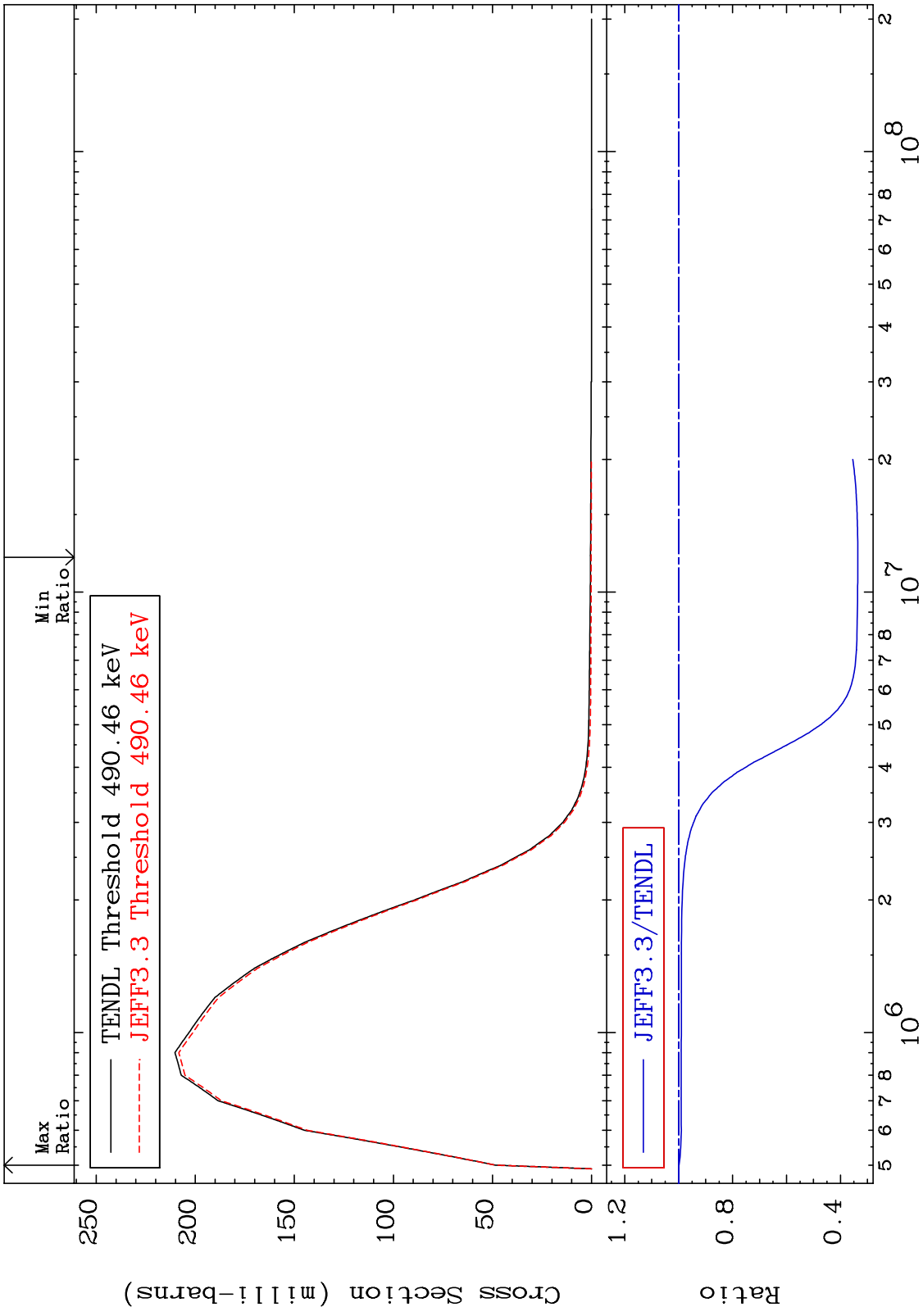
MAT 7240 MT= 57 (n, n') Level Cross Section 72-Hf-179  
 -0.230 To 0.000 %



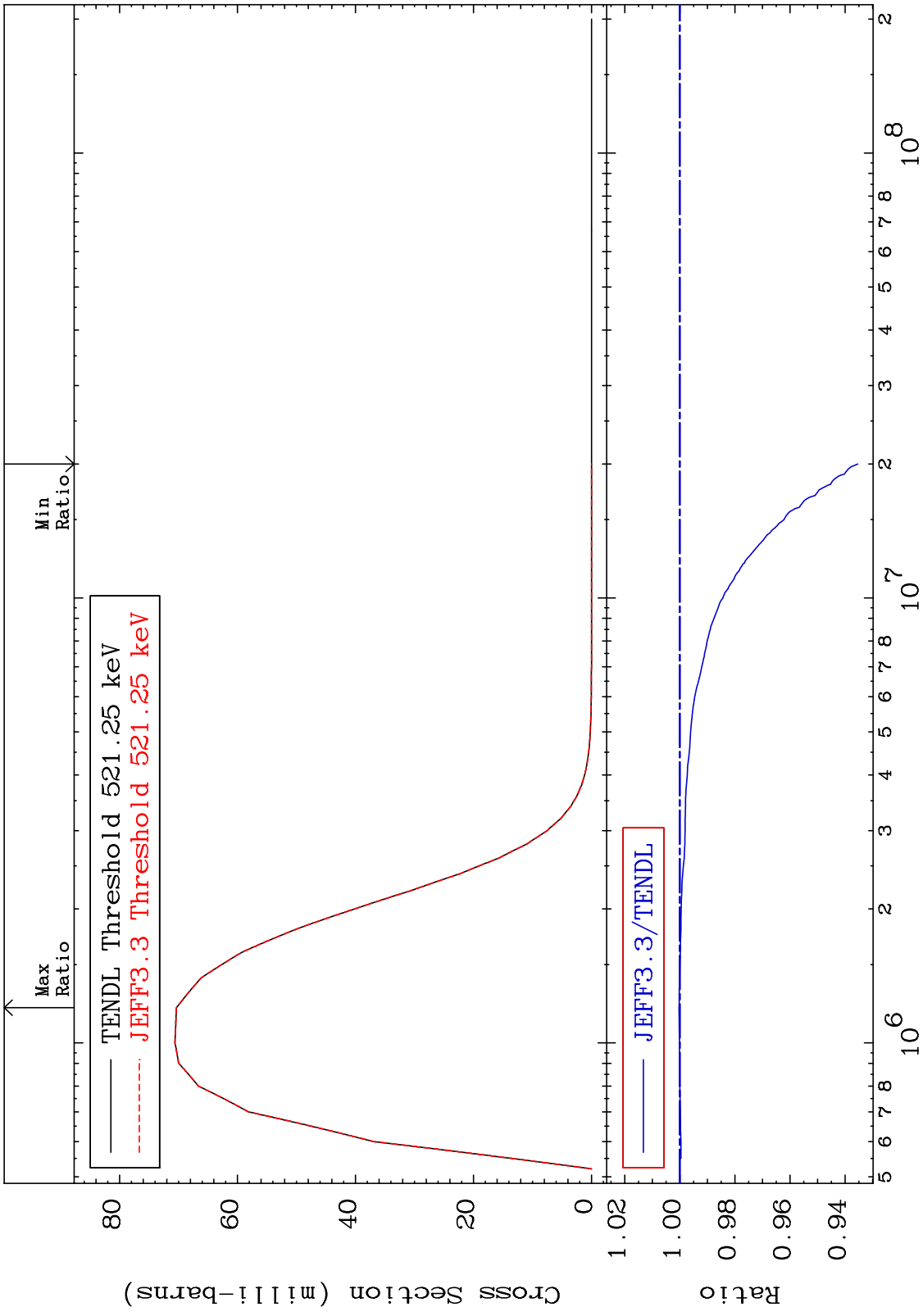
MAT 7240 MT= 58 (n,n') Level Cross Section 72-Hf-179  
 -6.462 To 0.026 %



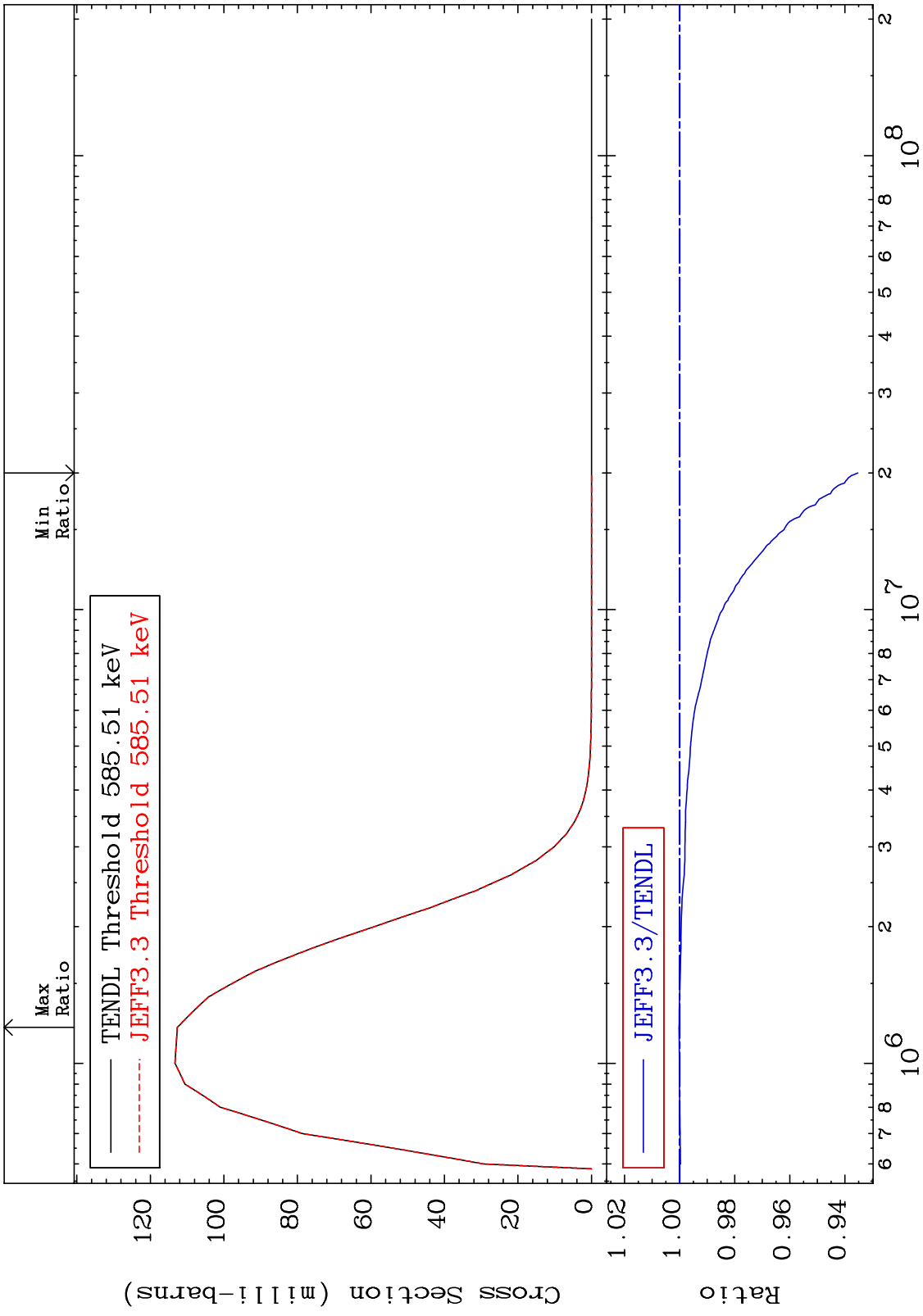
MAT 7240 MT= 59 (n,n') Level Cross Section 72-Hf-179  
 -66.45 To -0.125%



MAT 7240 MT= 60 (n,n') Level Cross Section 72-Hf-179  
 -6.462 To 0.026 %

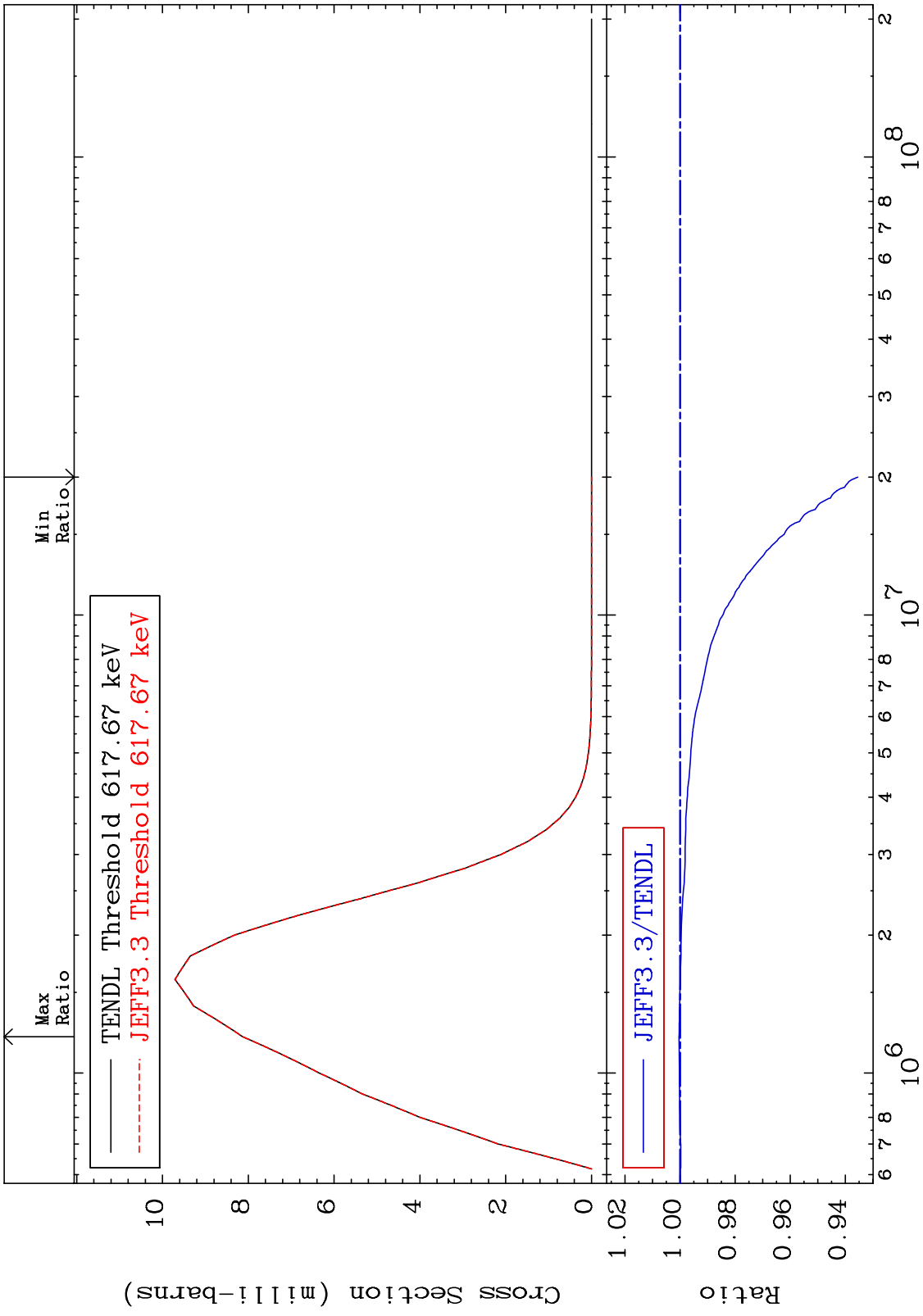


MAT 7240 MT= 61 (n,n') Level Cross Section 72-Hf-179  
 -6.467 To 0.020 %

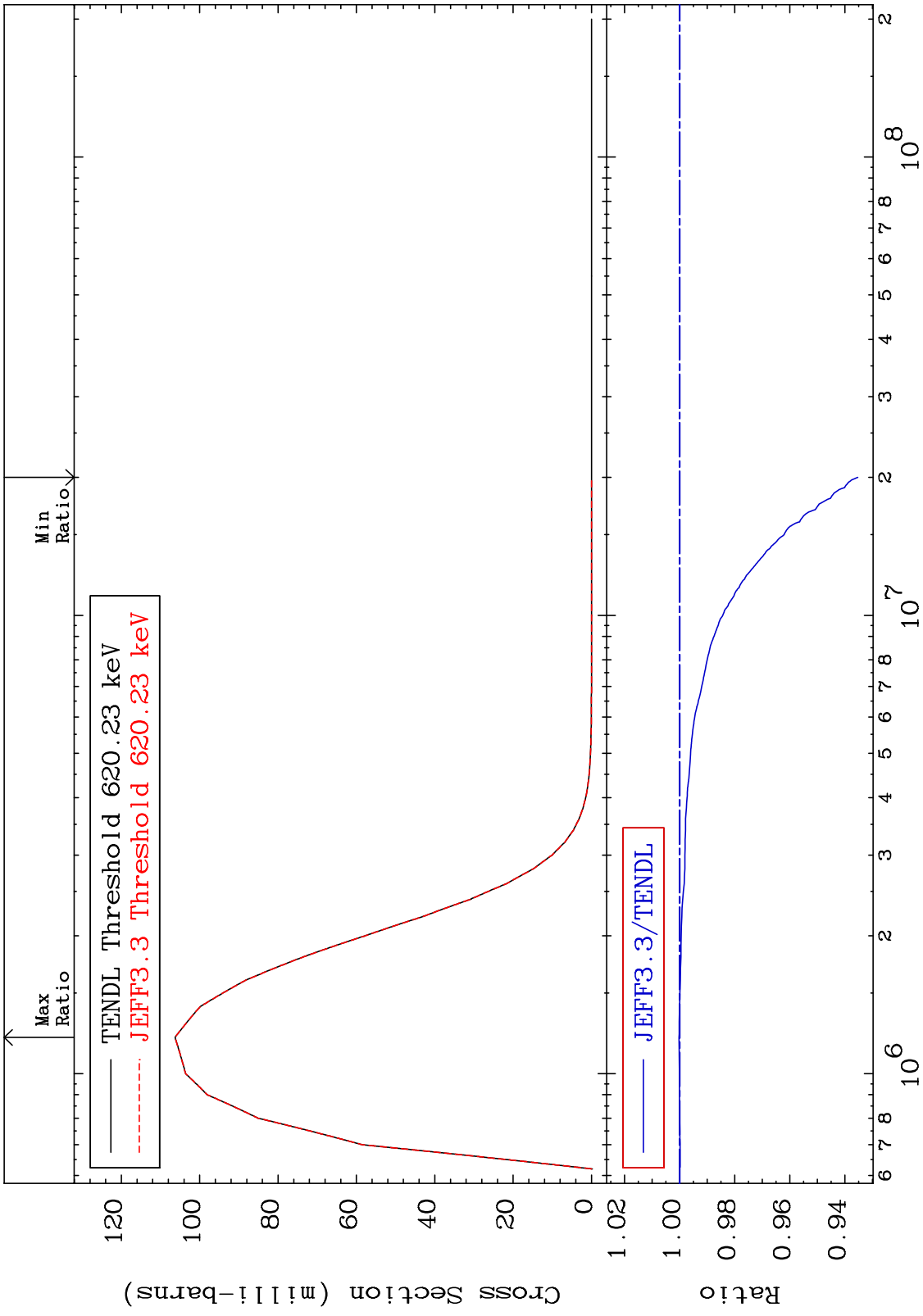




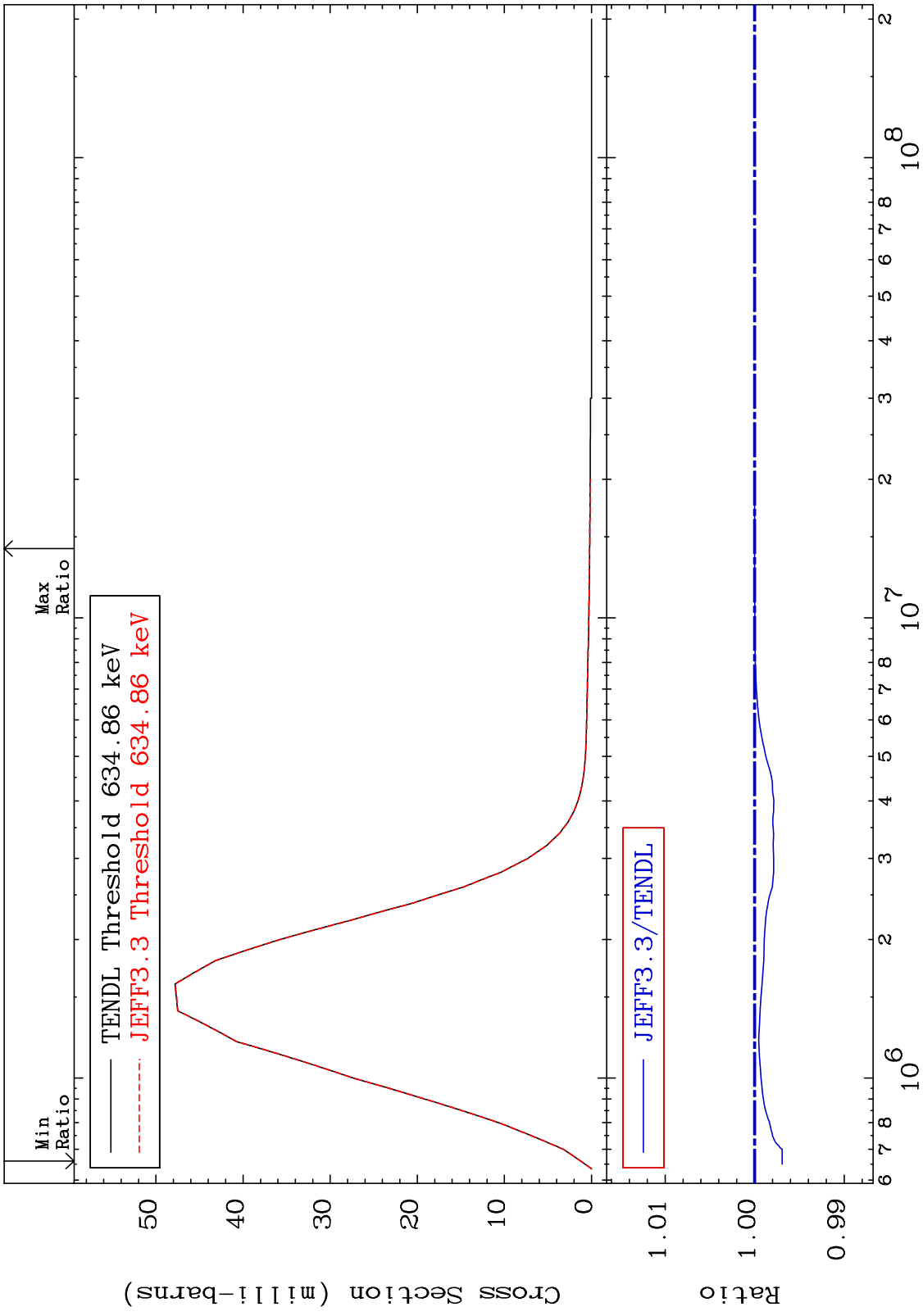
MAT 7240 MT= 62 (n,n') Level Cross Section 72-Hf-179  
 -6.457 To 0.036 %



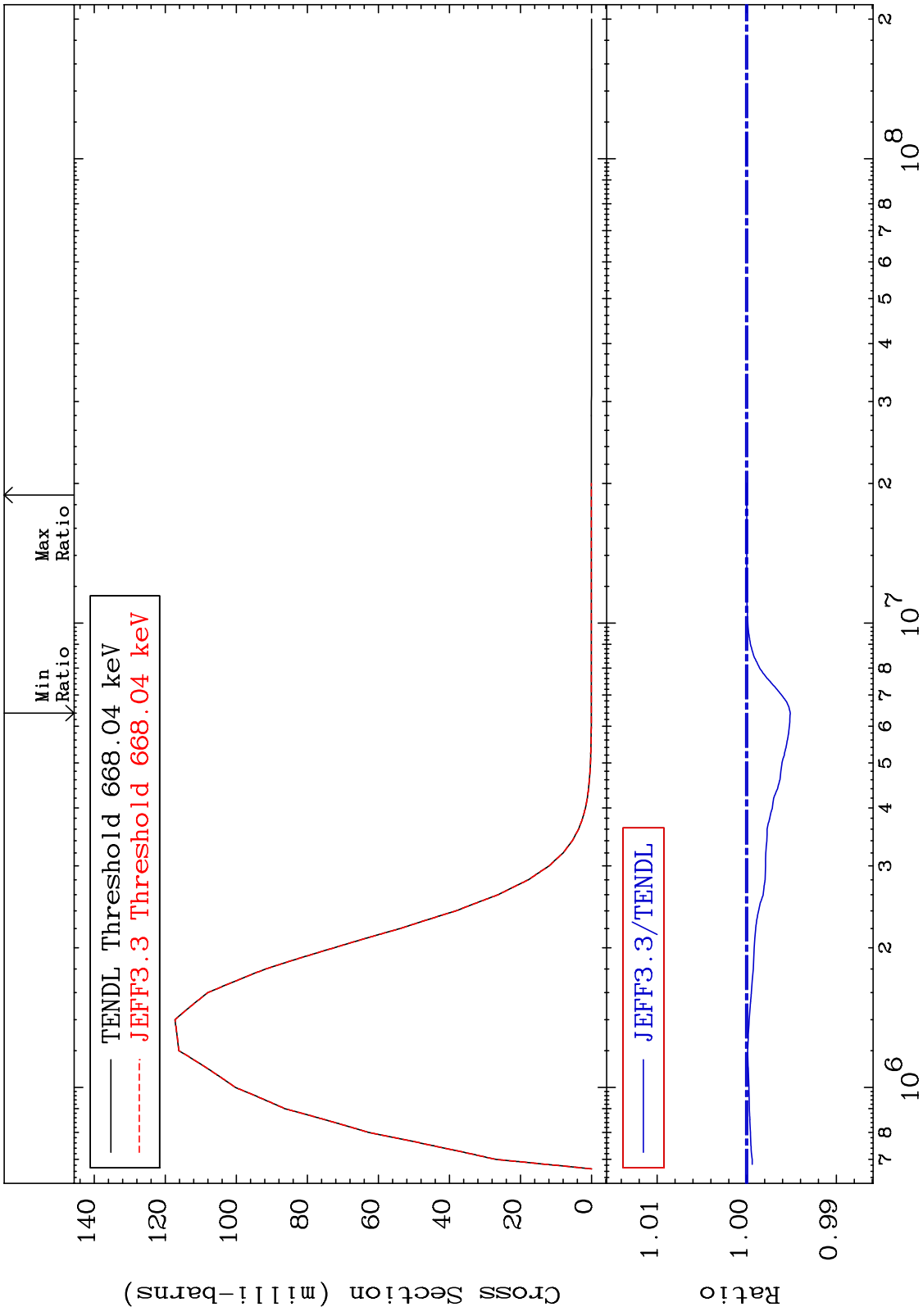
MAT 7240 MT= 63 (n,n') Level Cross Section 72-Hf-179  
 -6.467 To 0.021 %



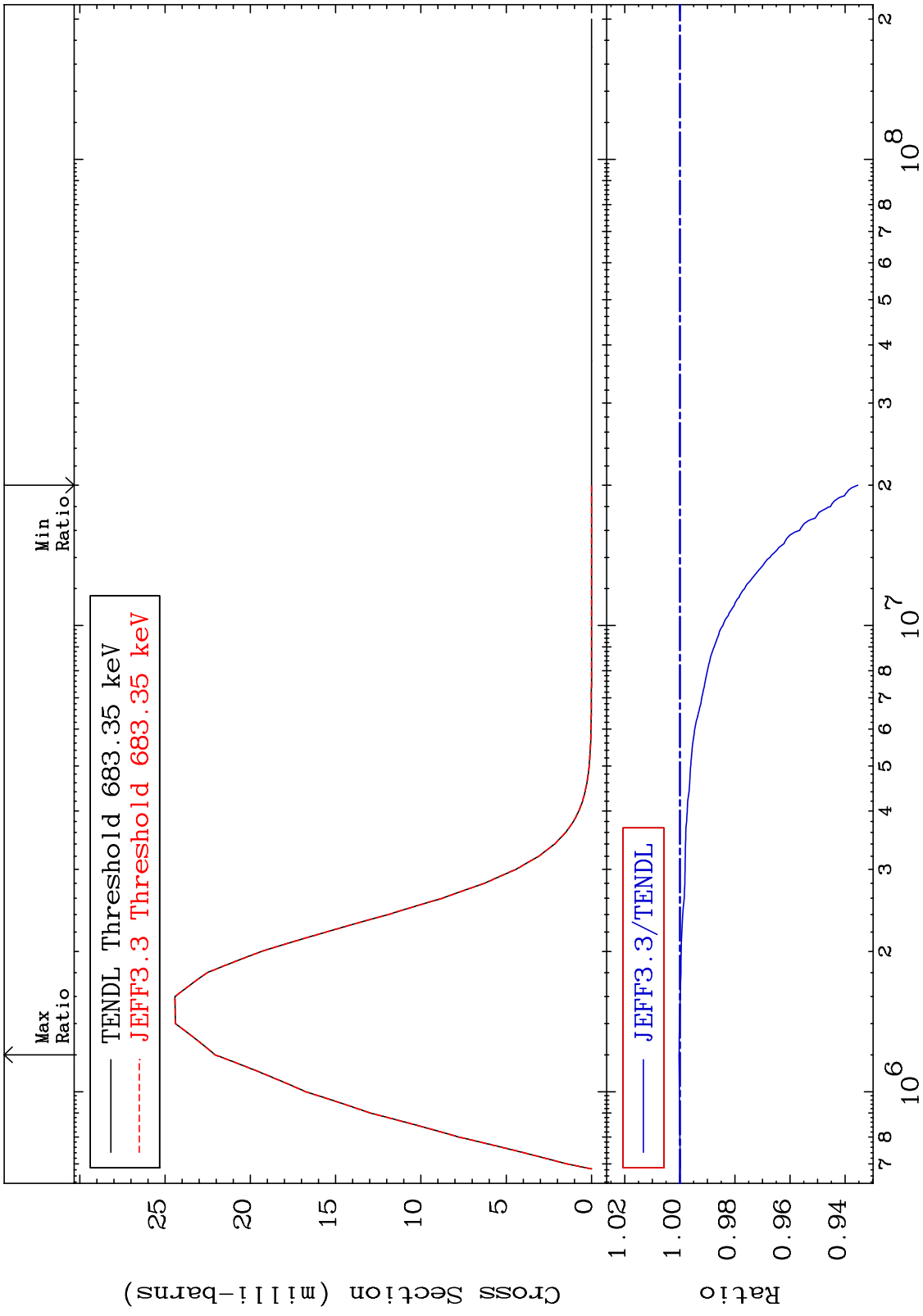
MAT 7240 MT= 64 (n,n') Level Cross Section -0.308 To 0.000 % 72-Hf-179



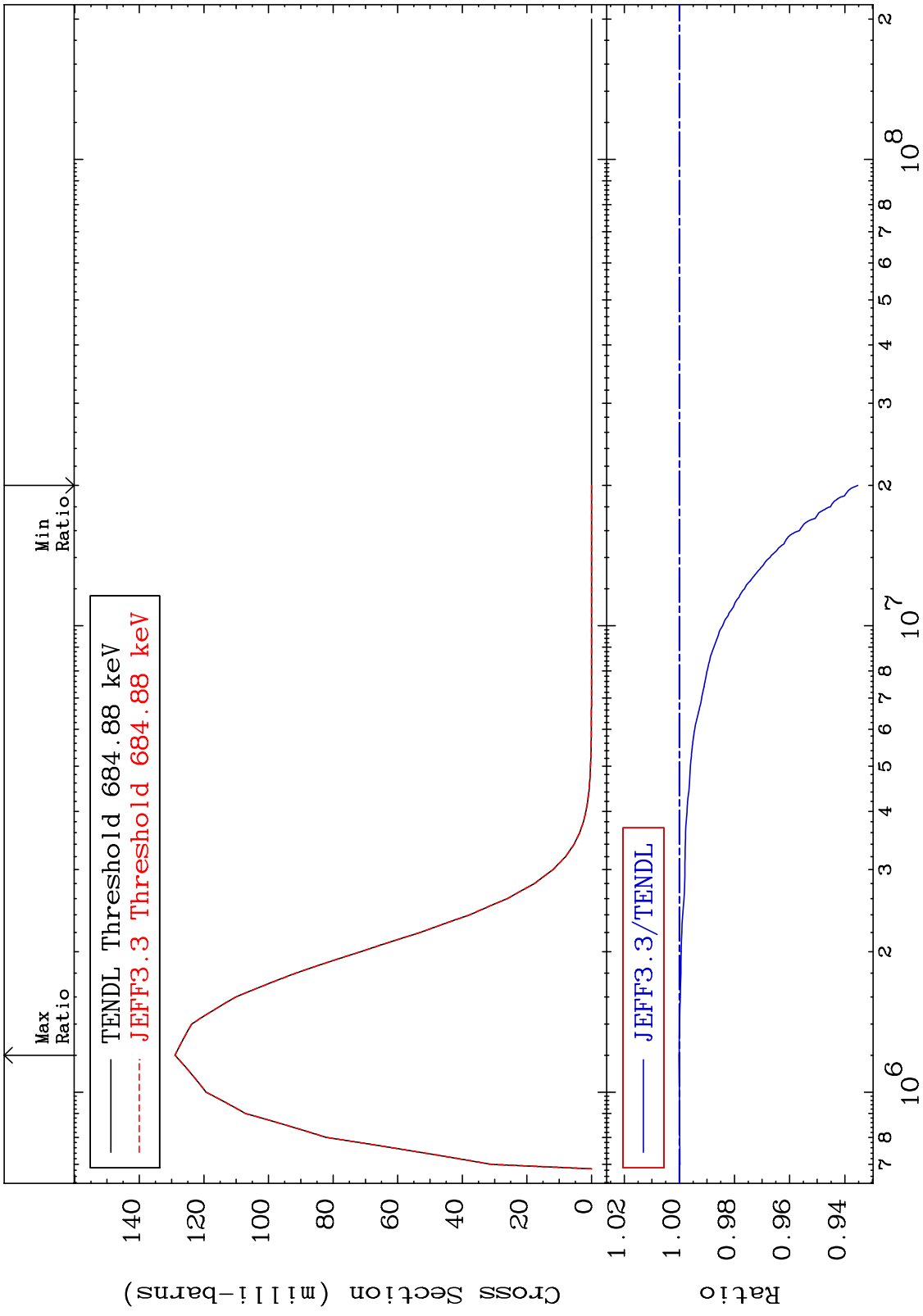
MAT 7240 MT= 65 (n,n') Level Cross Section 72-Hf-179  
 -0.486 To 0.000 %



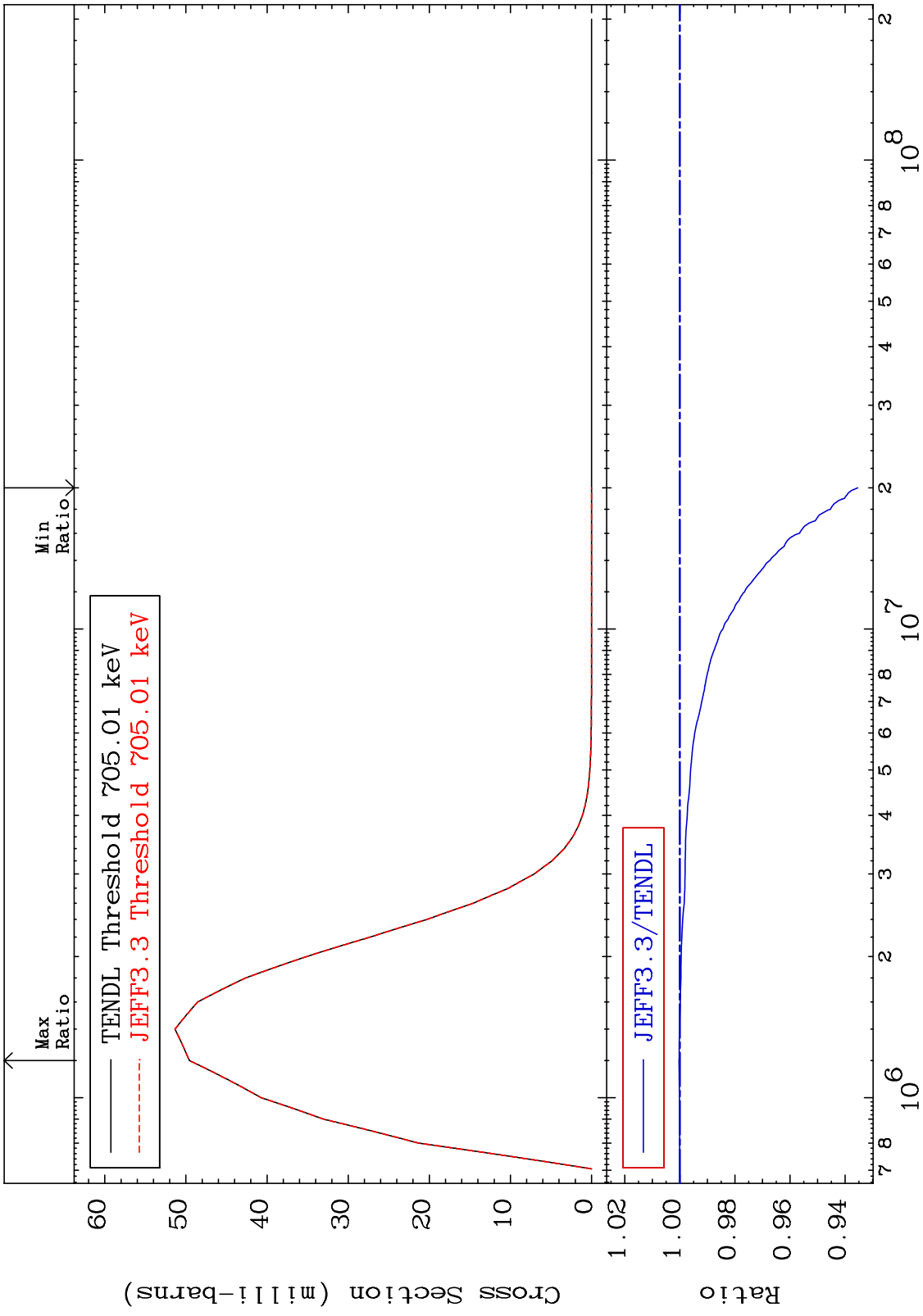
MAT 7240 MT= 66 (n,n') Level Cross Section 72-Hf-179  
 -6.458 To 0.032 %



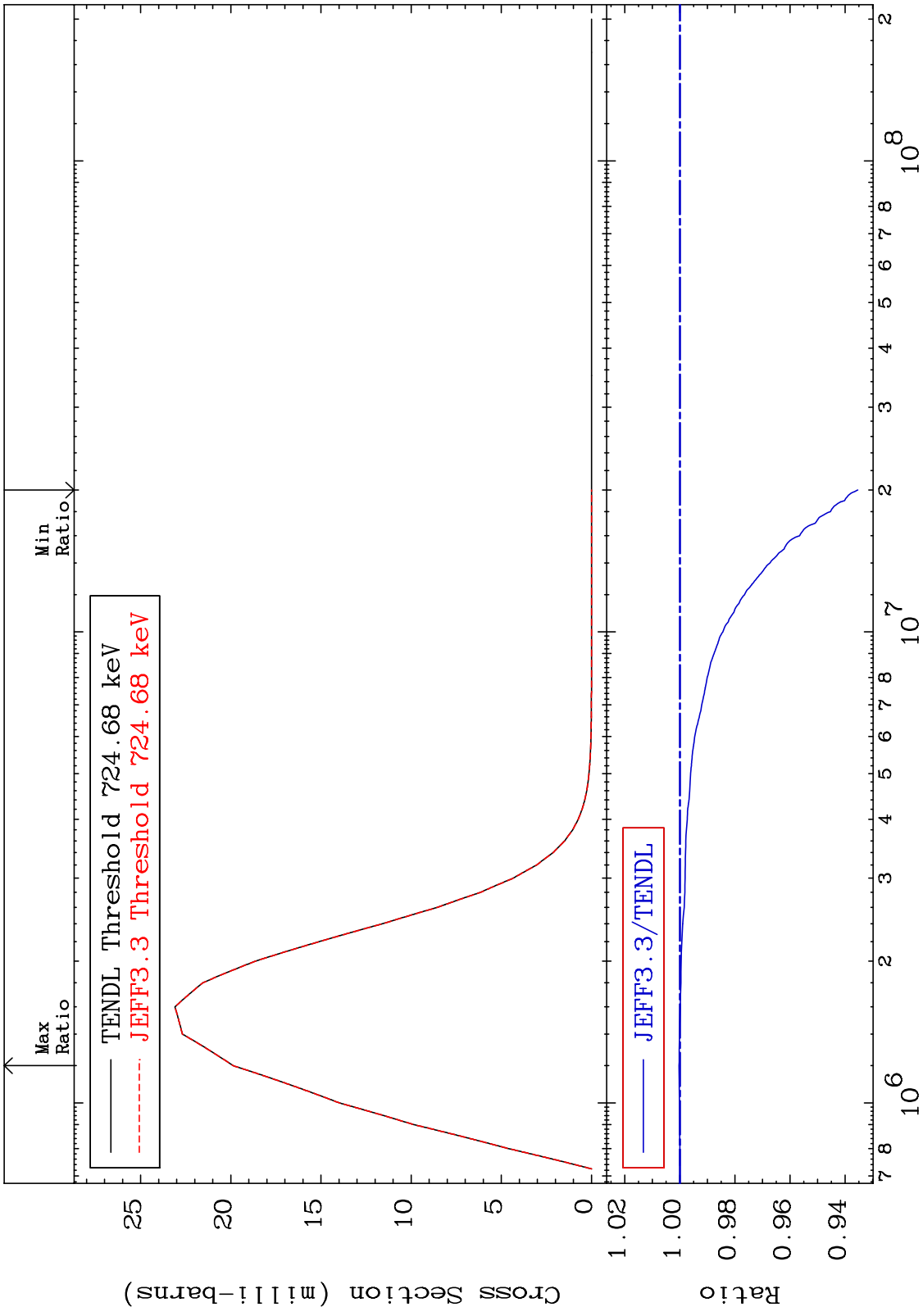
MAT 7240 MT= 67 (n,n') Level Cross Section 72-Hf-179  
 -6.473 To 0.014 %



MAT 7240 MT= 68 (n,n') Level Cross Section 72-Hf-179  
 -6.462 To 0.027 %

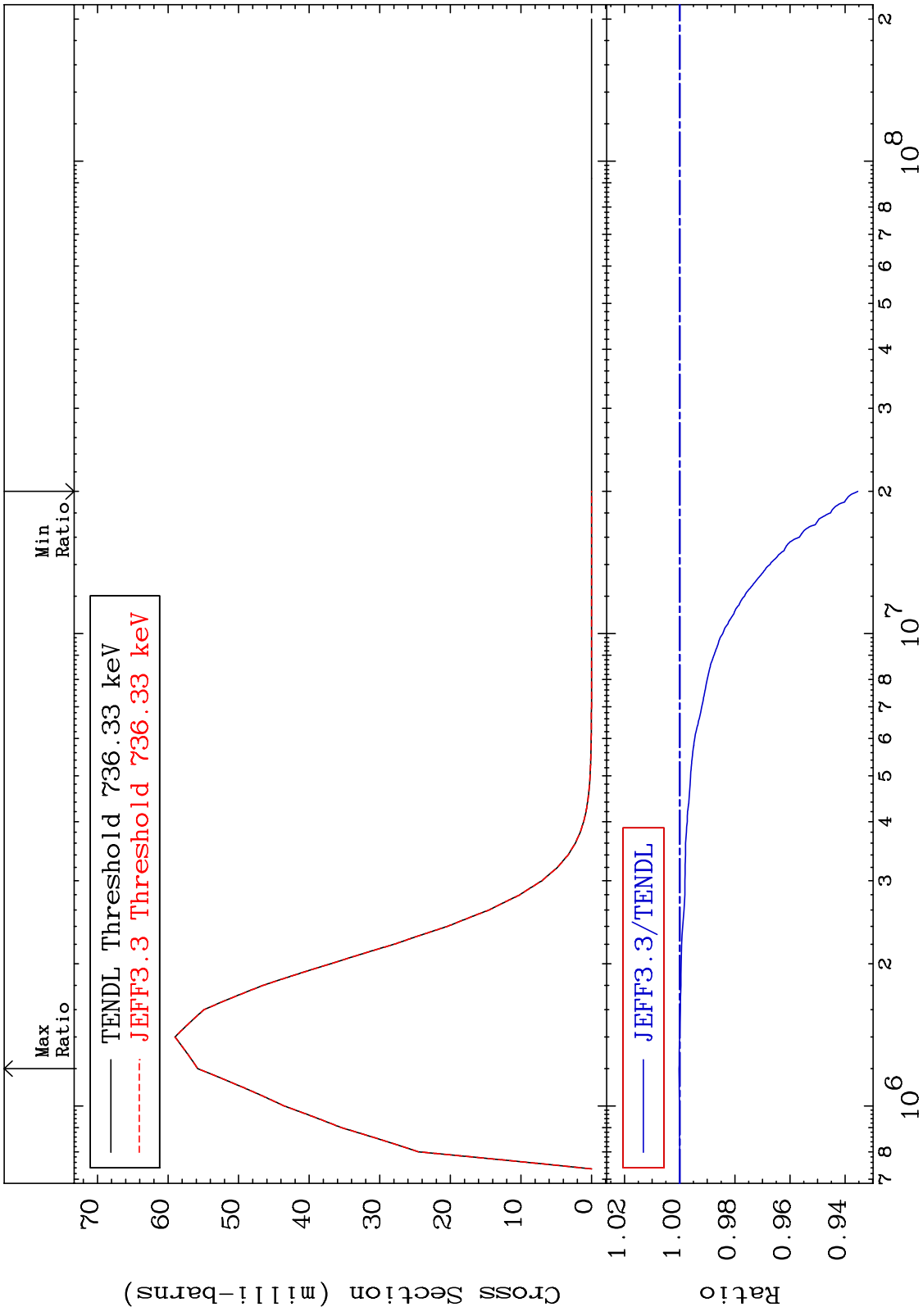


MAT 7240 MT= 69 (n,n') Level Cross Section 72-Hf-179  
 -6.459 To 0.032 %



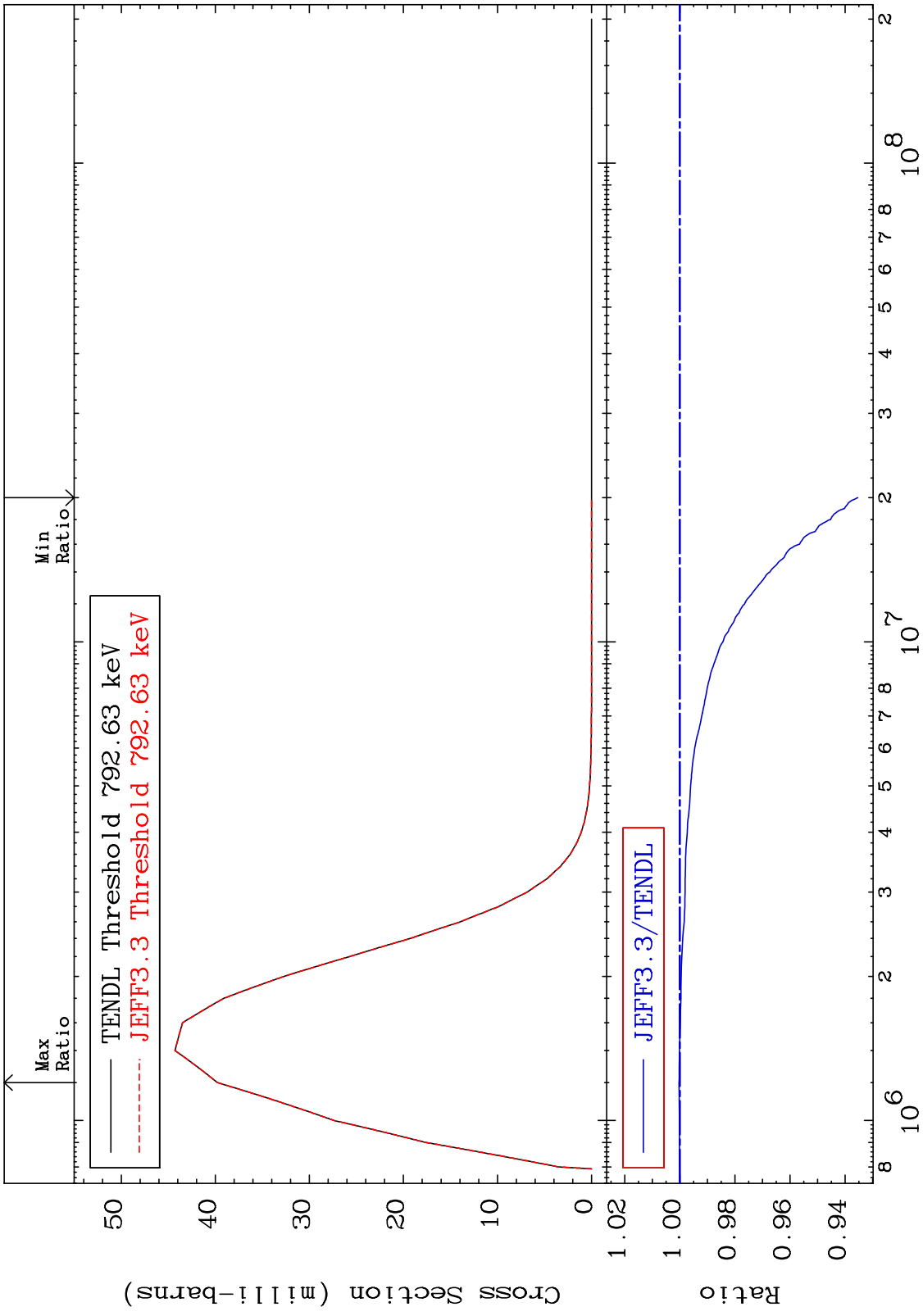


MAT 7240      MT= 70 (n,n') Level      72-Hf-179  
 Cross Section      -6.462 To 0.025 %

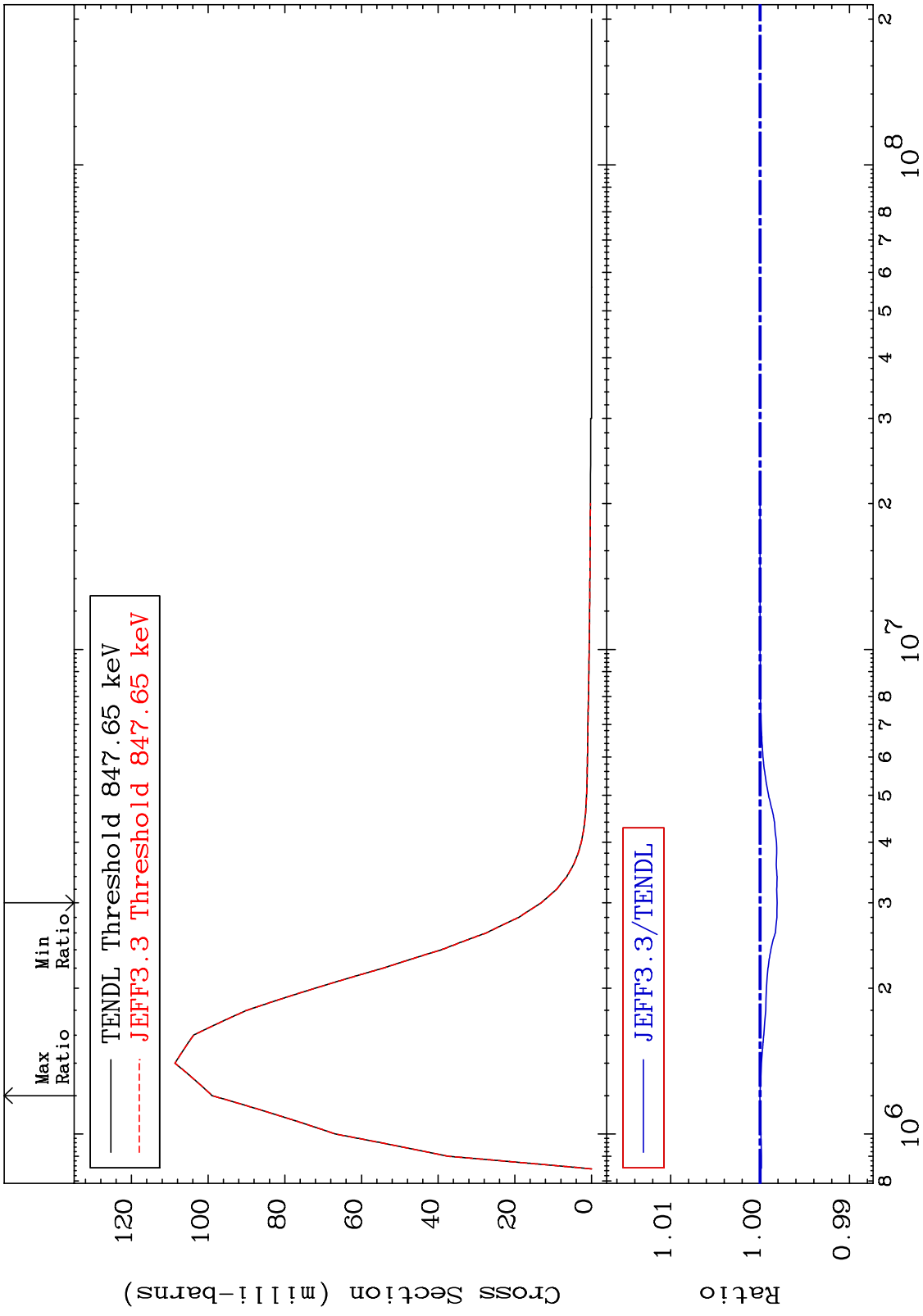




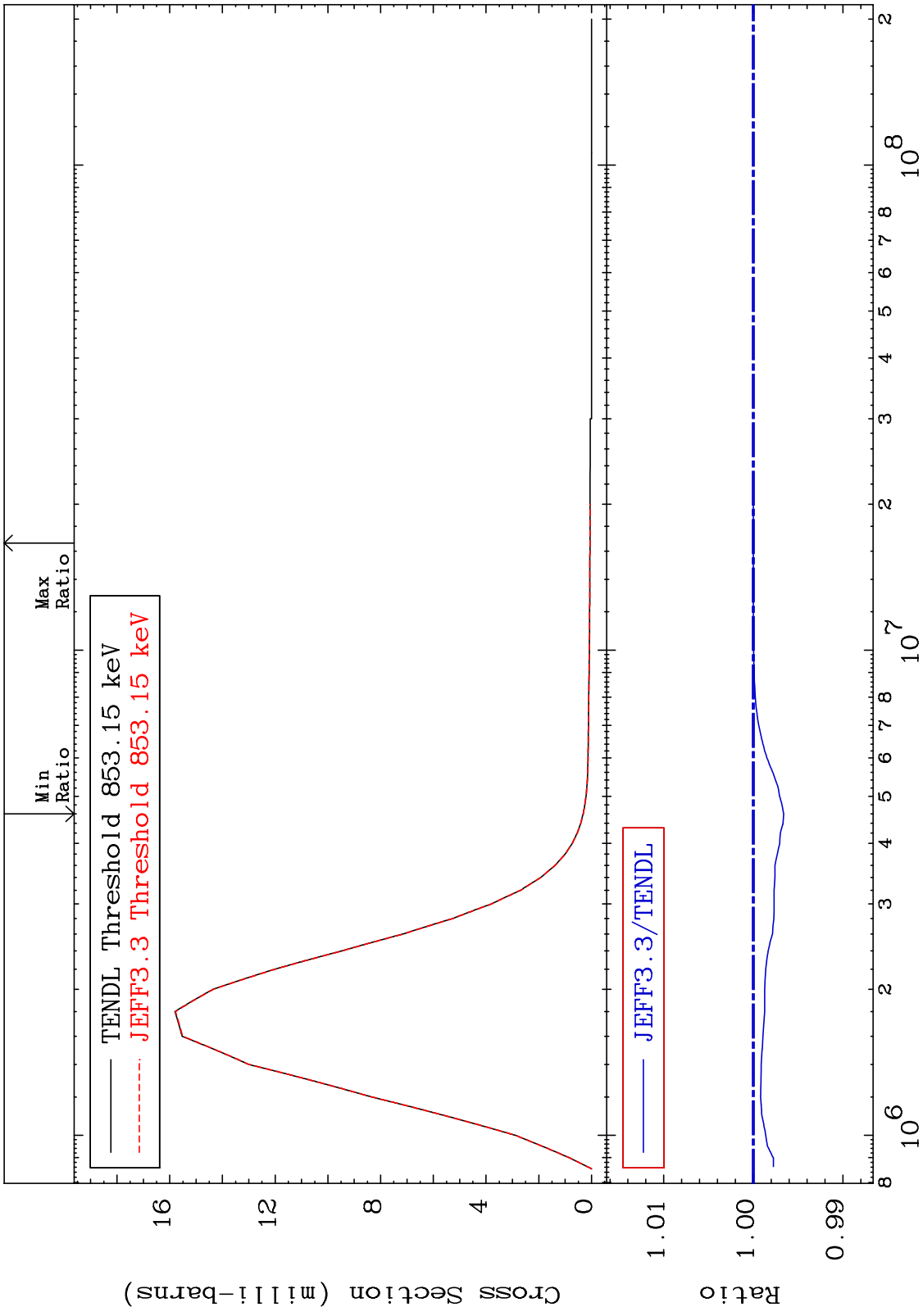
MAT 7240 MT= 72 (n,n') Level Cross Section 72-Hf-179  
 -6.462 To 0.027 %



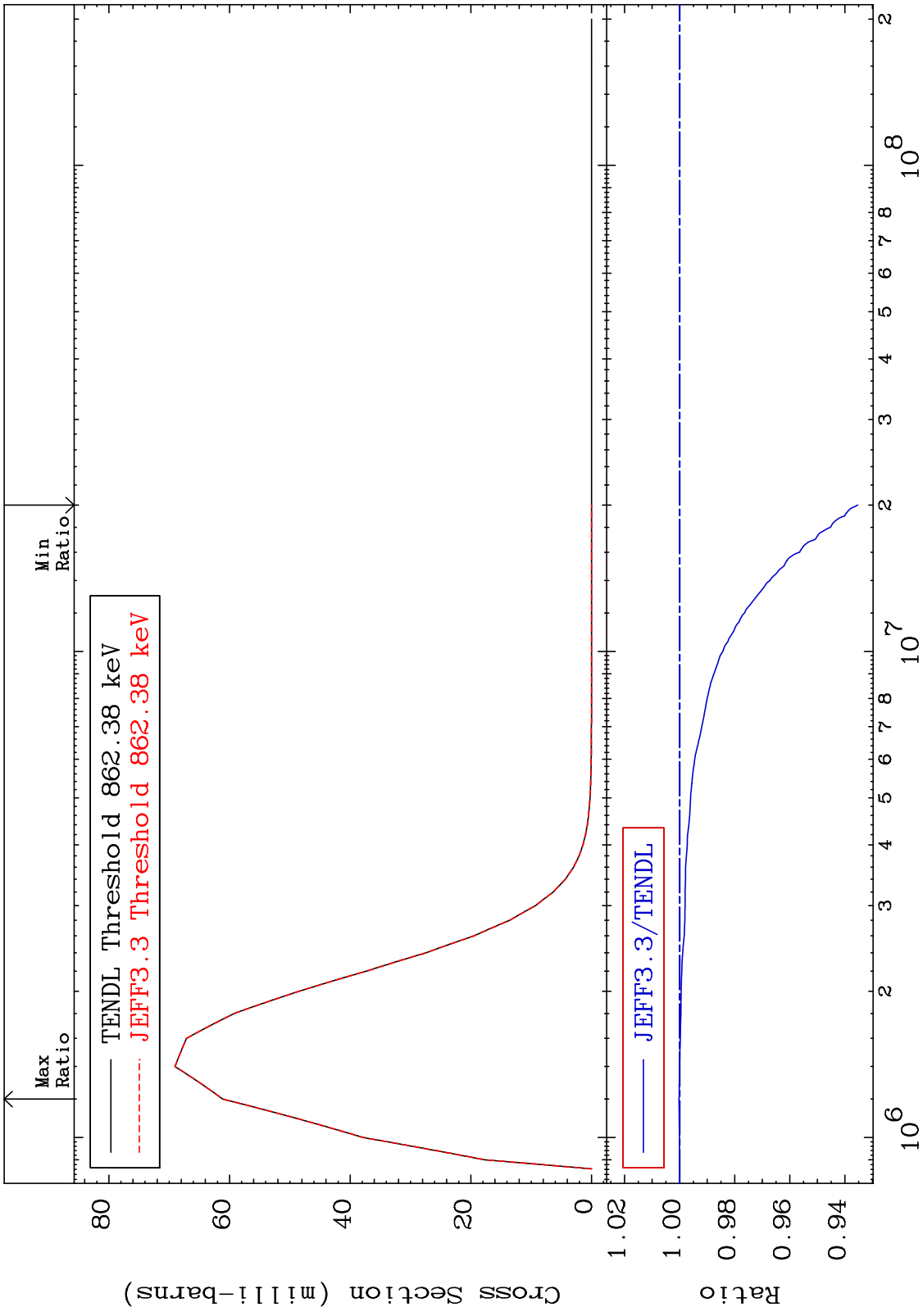
MAT 7240 MT= 73 (n,n') Level Cross Section 72-Hf-179  
-0.189 To 0.003 %



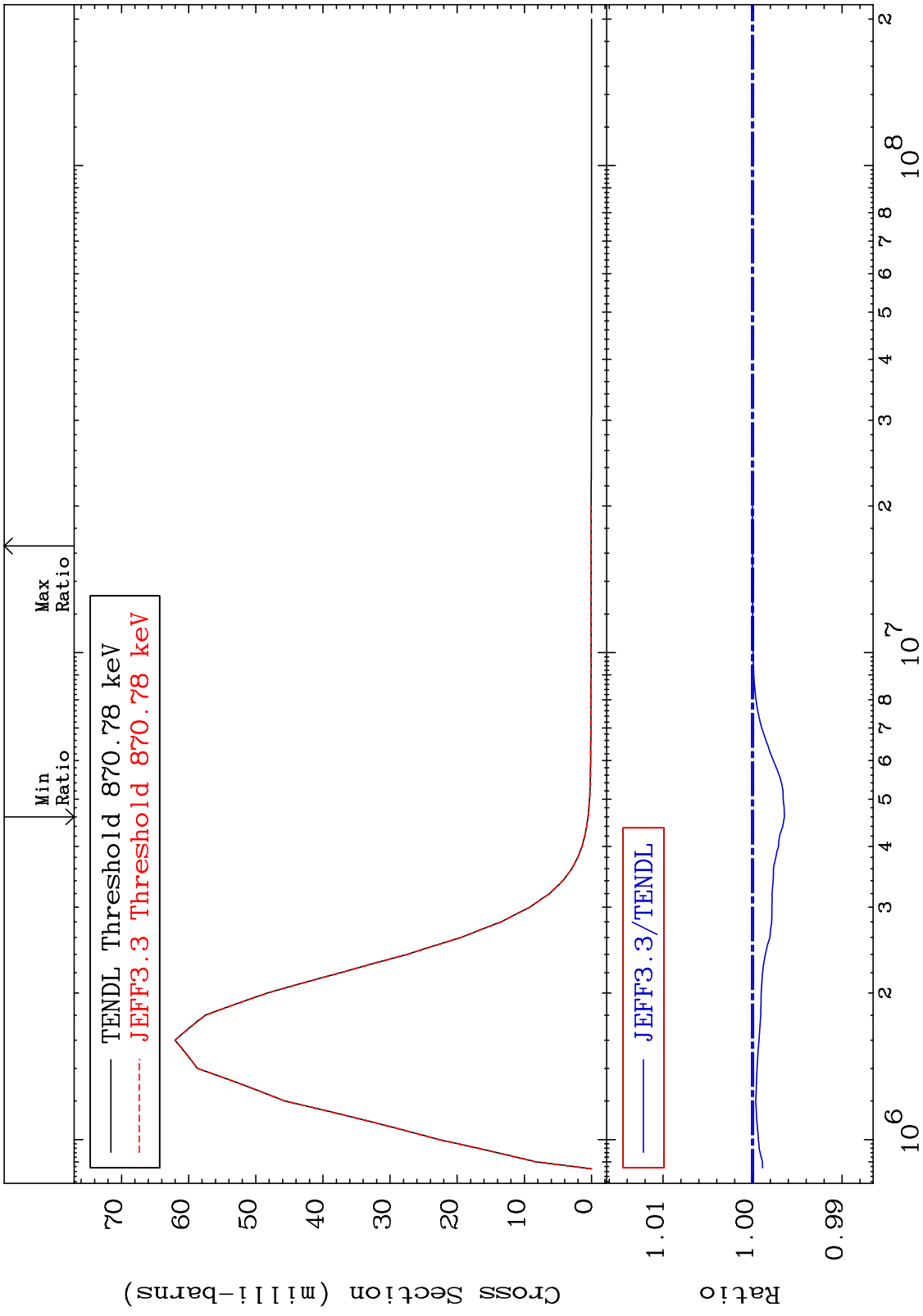
MAT 7240 MT= 74 (n,n') Level Cross Section 72-Hf-179 -0.338 To 0.000 %



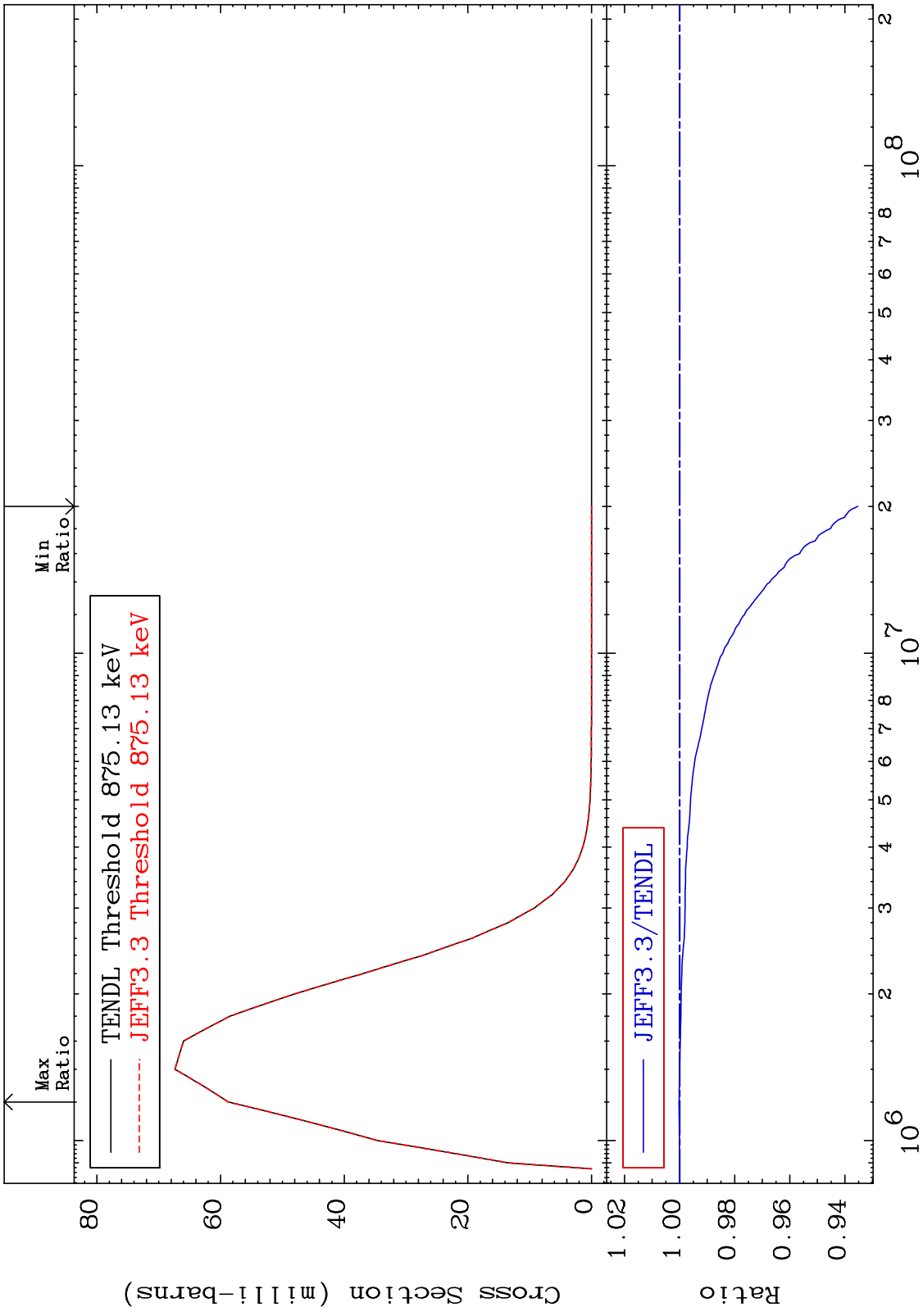
MAT 7240 MT= 75 (n,n') Level Cross Section 72-Hf-179  
 -6.467 To 0.022 %



MAT 7240 MT= 76 (n,n') Level Cross Section 72-Hf-179  
 -0.355 To 0.000 %

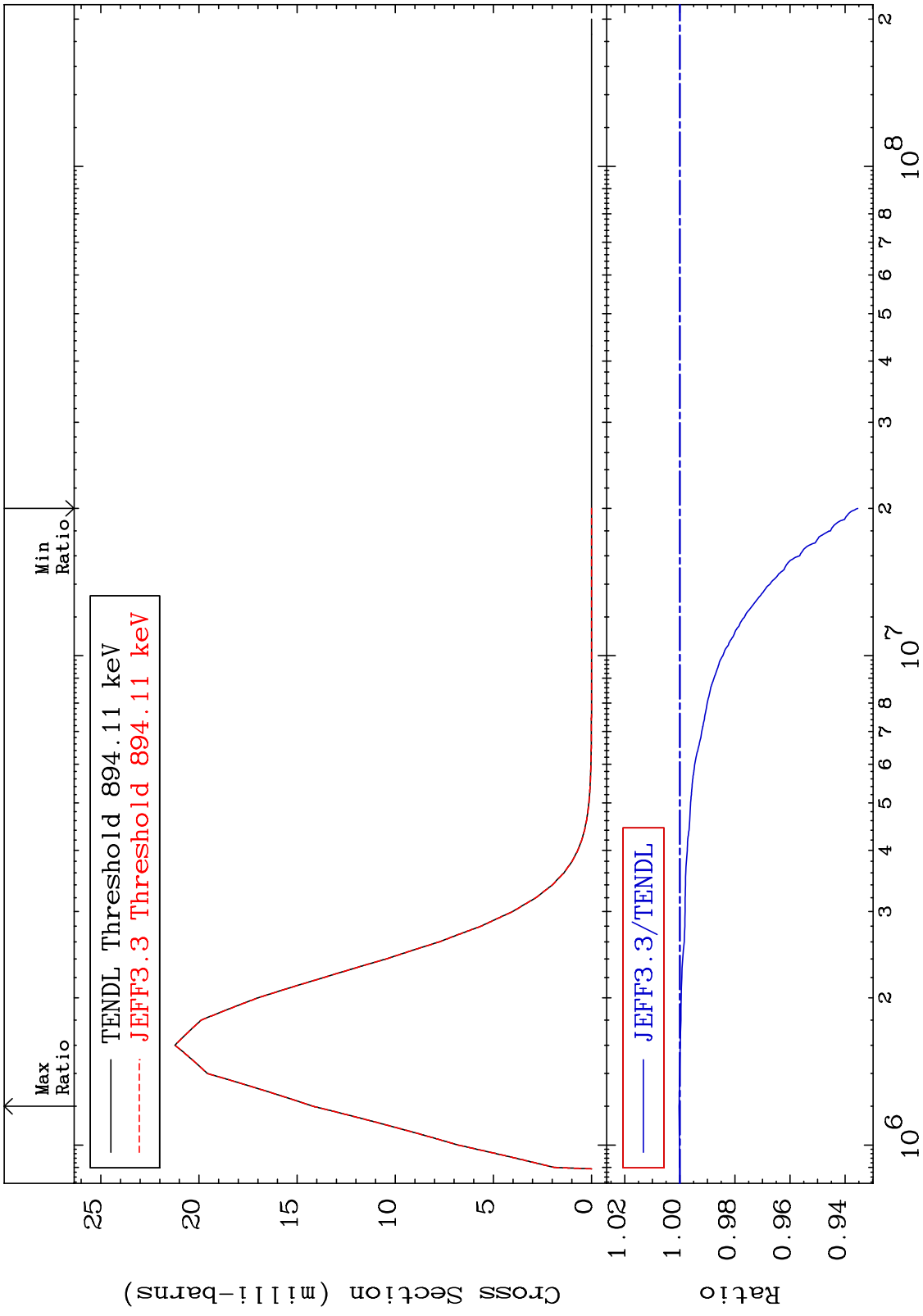


MAT 7240 MT= 77 (n,n') Level Cross Section 72-Hf-179  
 -6.467 To 0.022 %



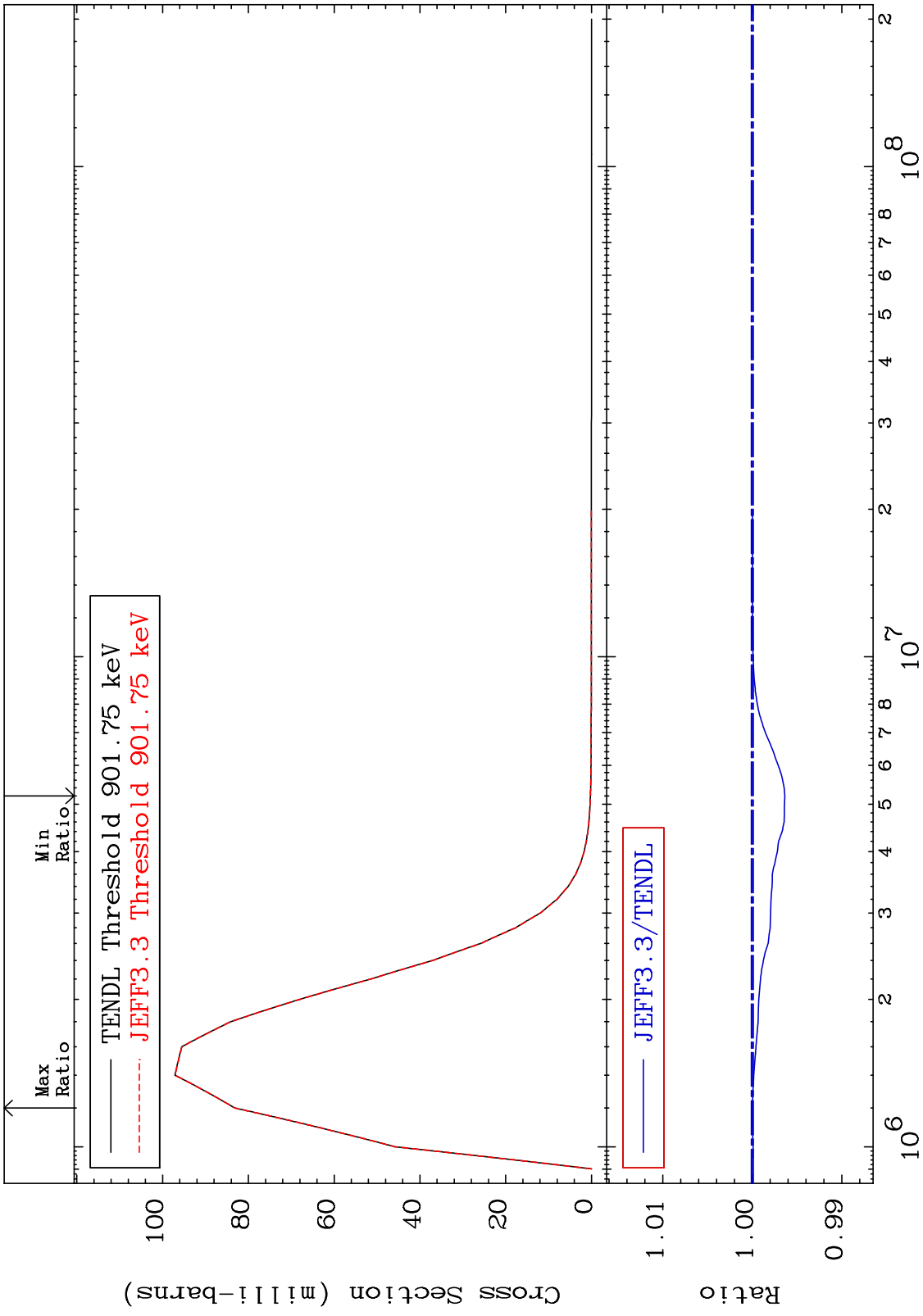


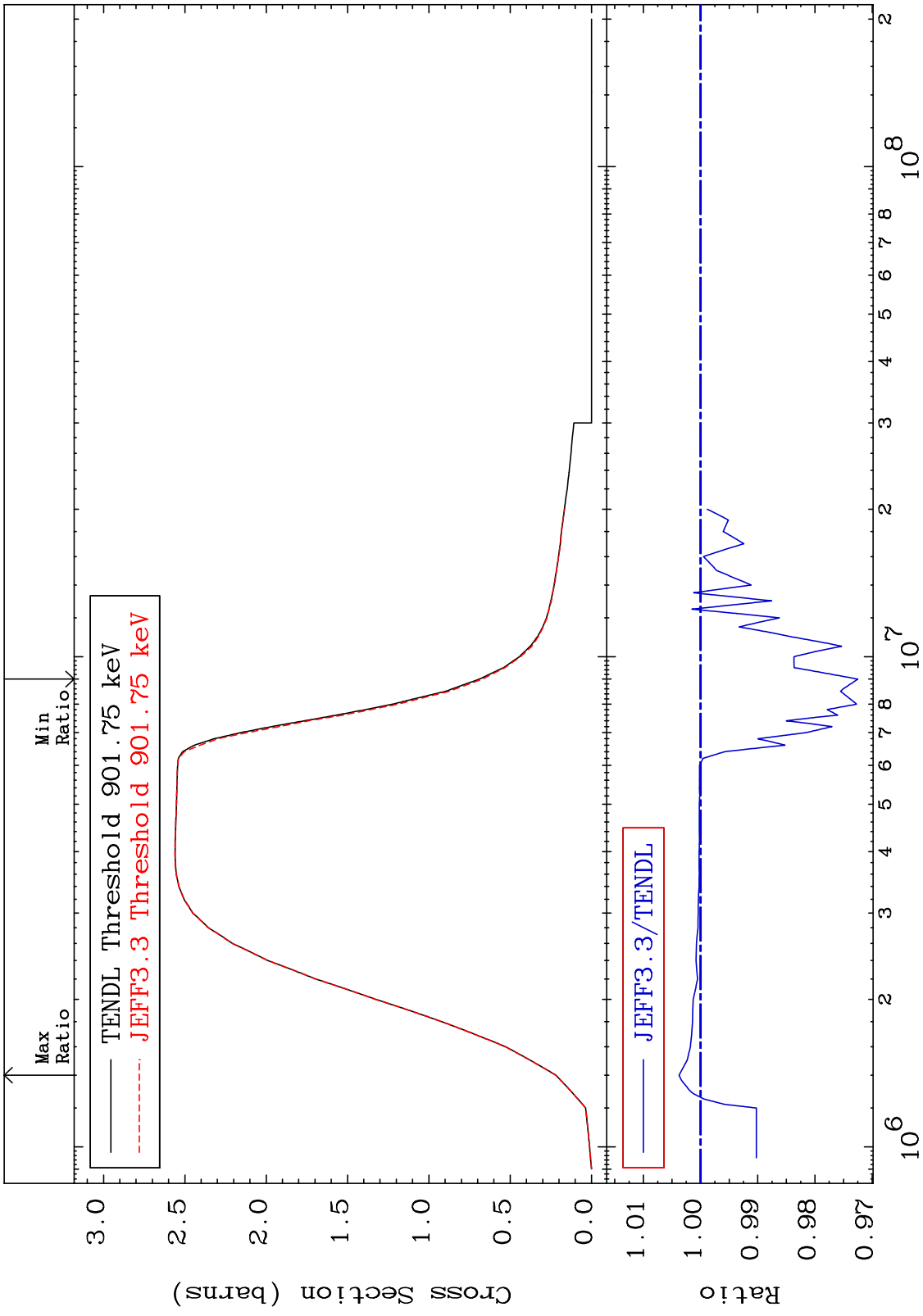
MAT 7240 MT= 78 (n,n') Level Cross Section 72-Hf-179  
 -6.458 To 0.030 %



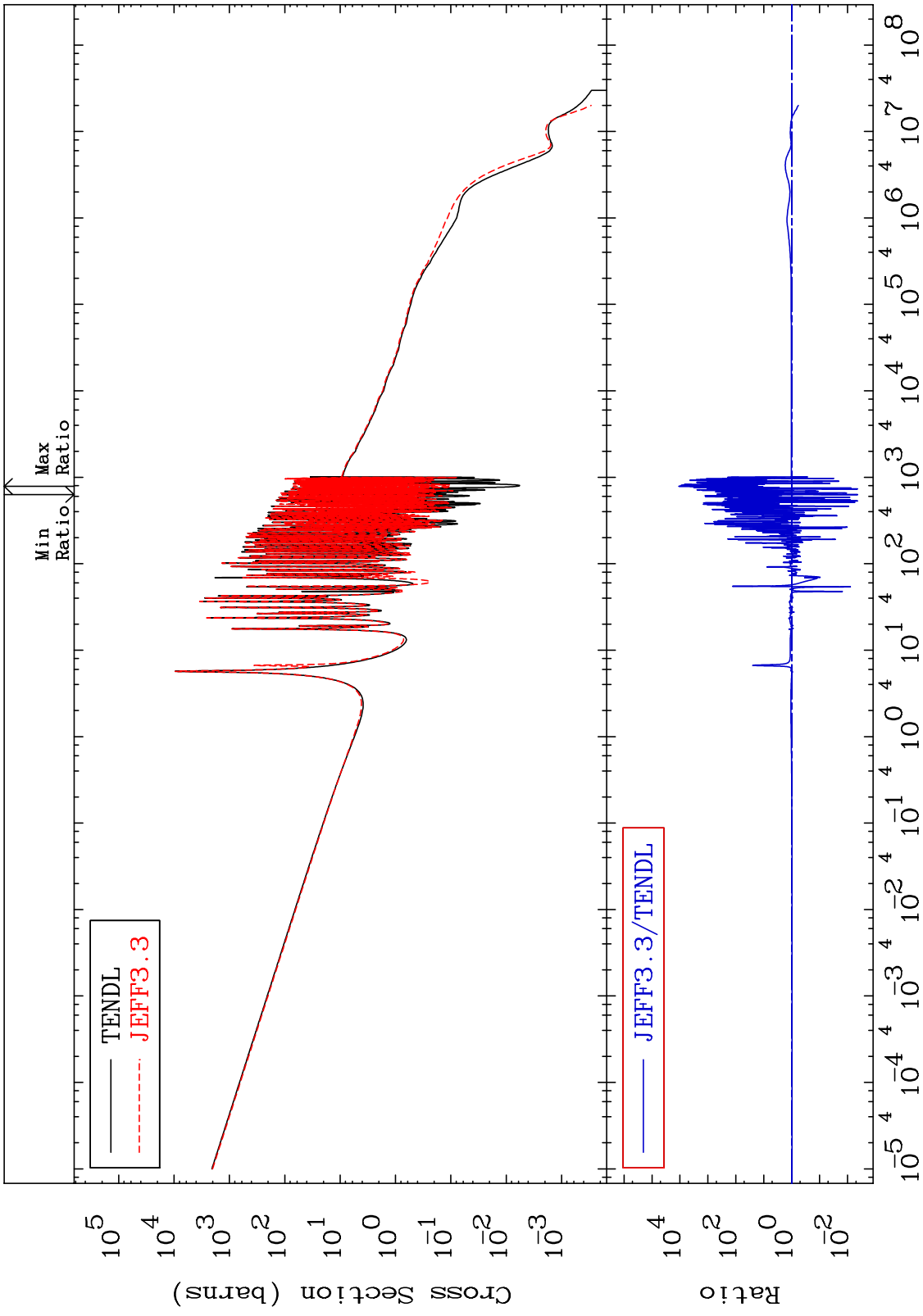
40 Incident Energy (eV) 72-Hf-179

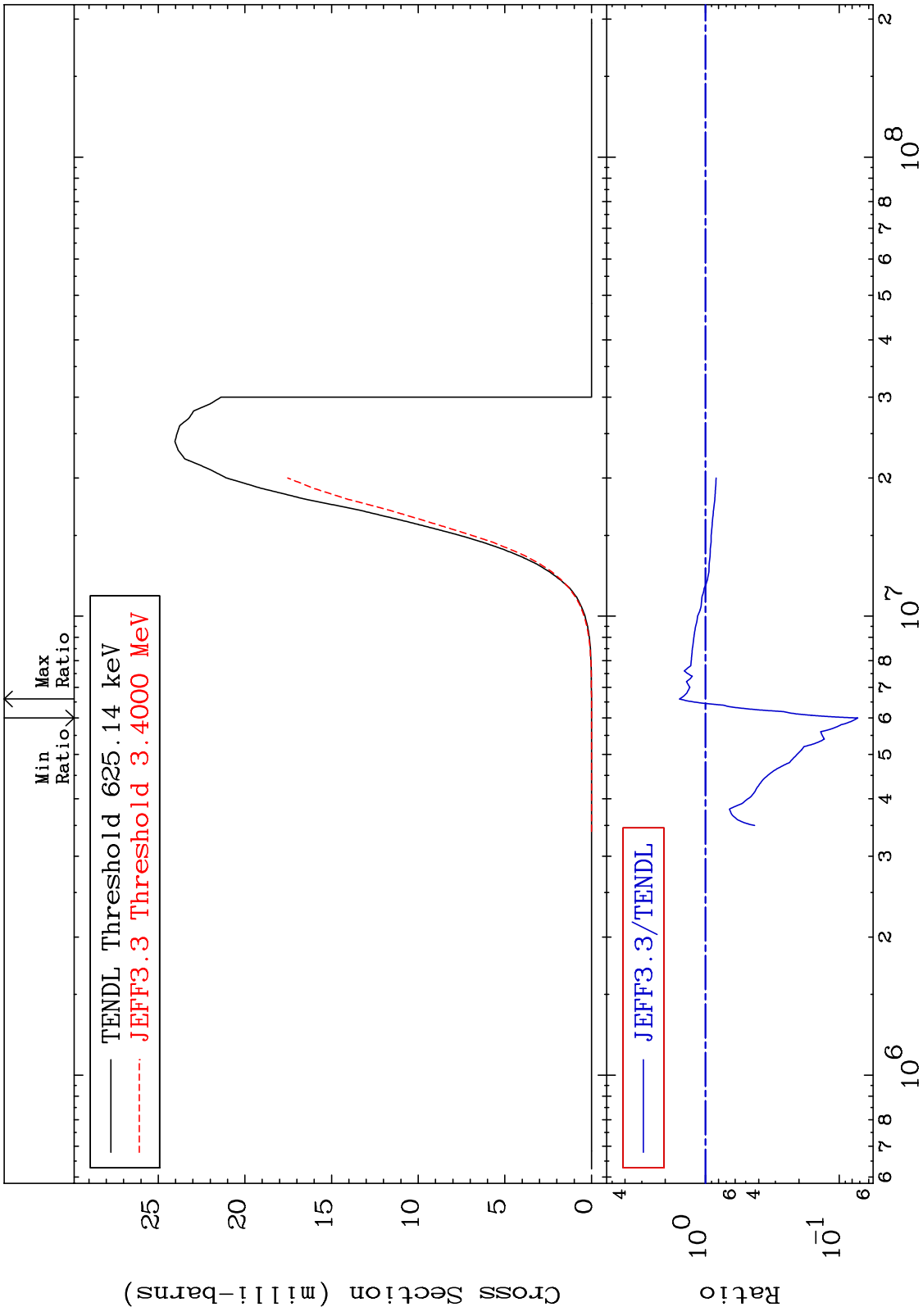
MAT 7240 MT= 79 (n,n') Level Cross Section 72-Hf-179  
 -0.363 To 0.003 %



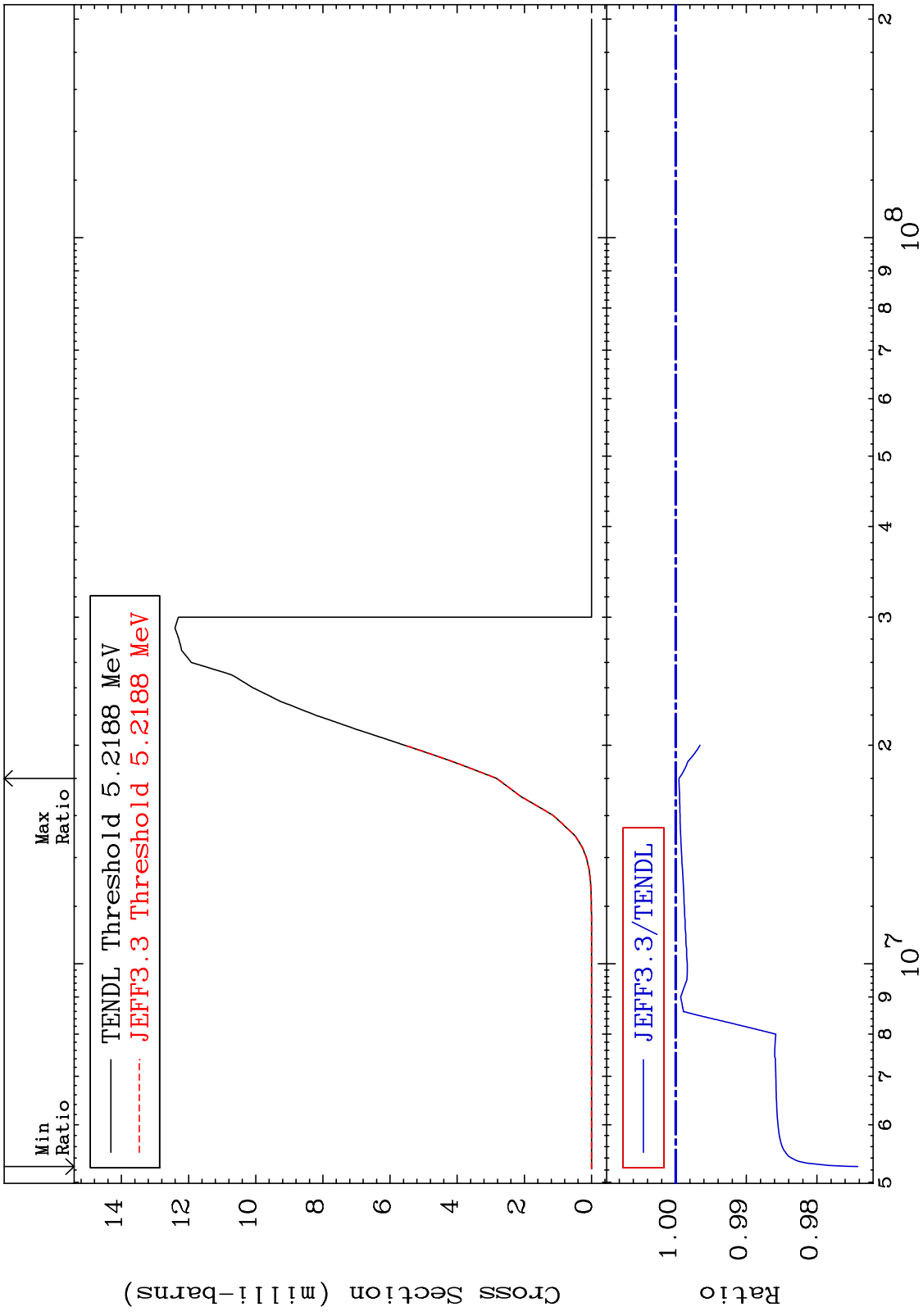


MAT 7240  $(n, \gamma)$  Cross Section 72-Hf-179  
 -99.57 To 9999. %

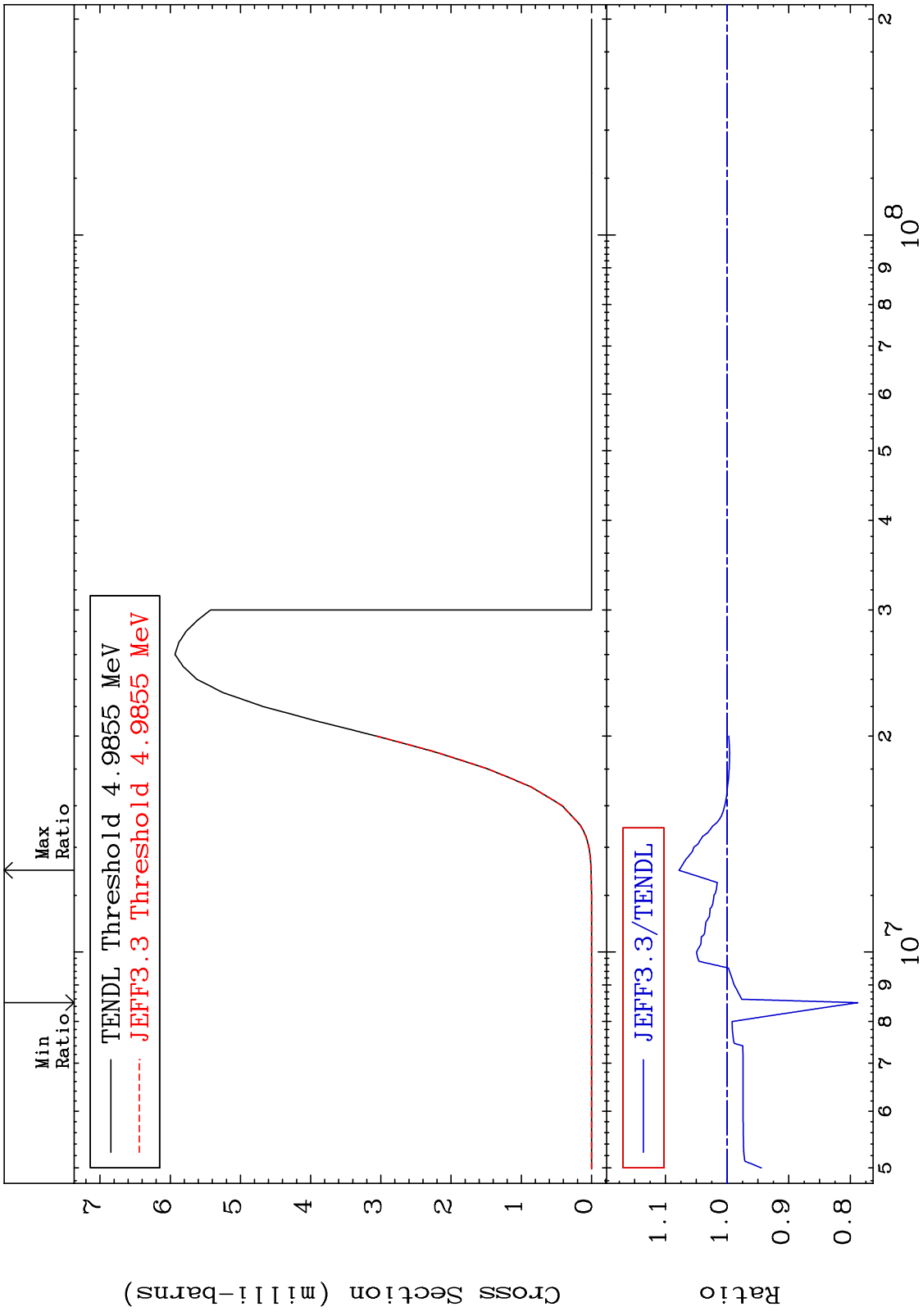




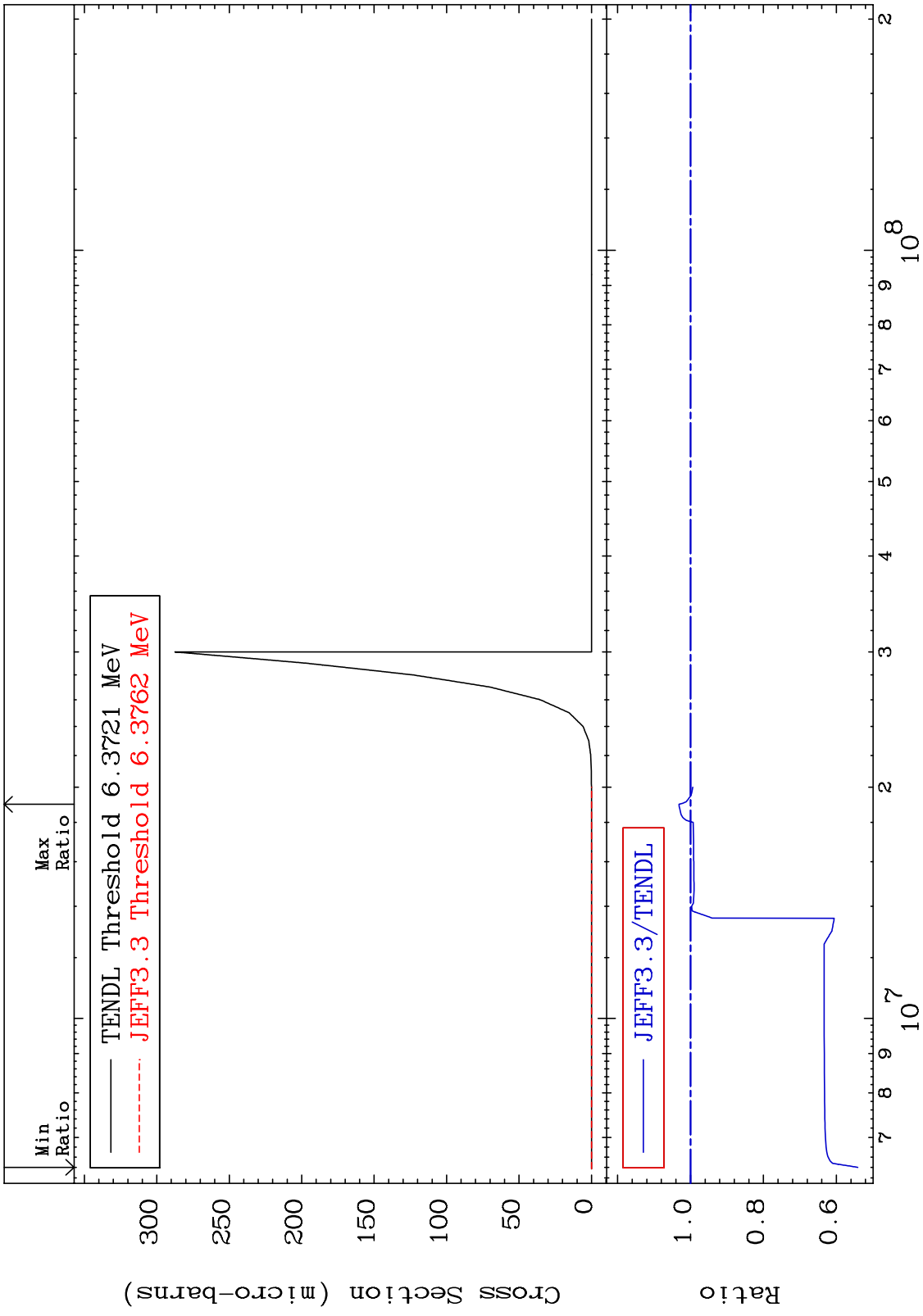
MAT 7240 (n,d) 72-Hf-179  
 Cross Section -2.579 To -0.047%



MAT 7240 (n,t) 72-Hf-179  
 Cross Section -21.21 To 7.795 %

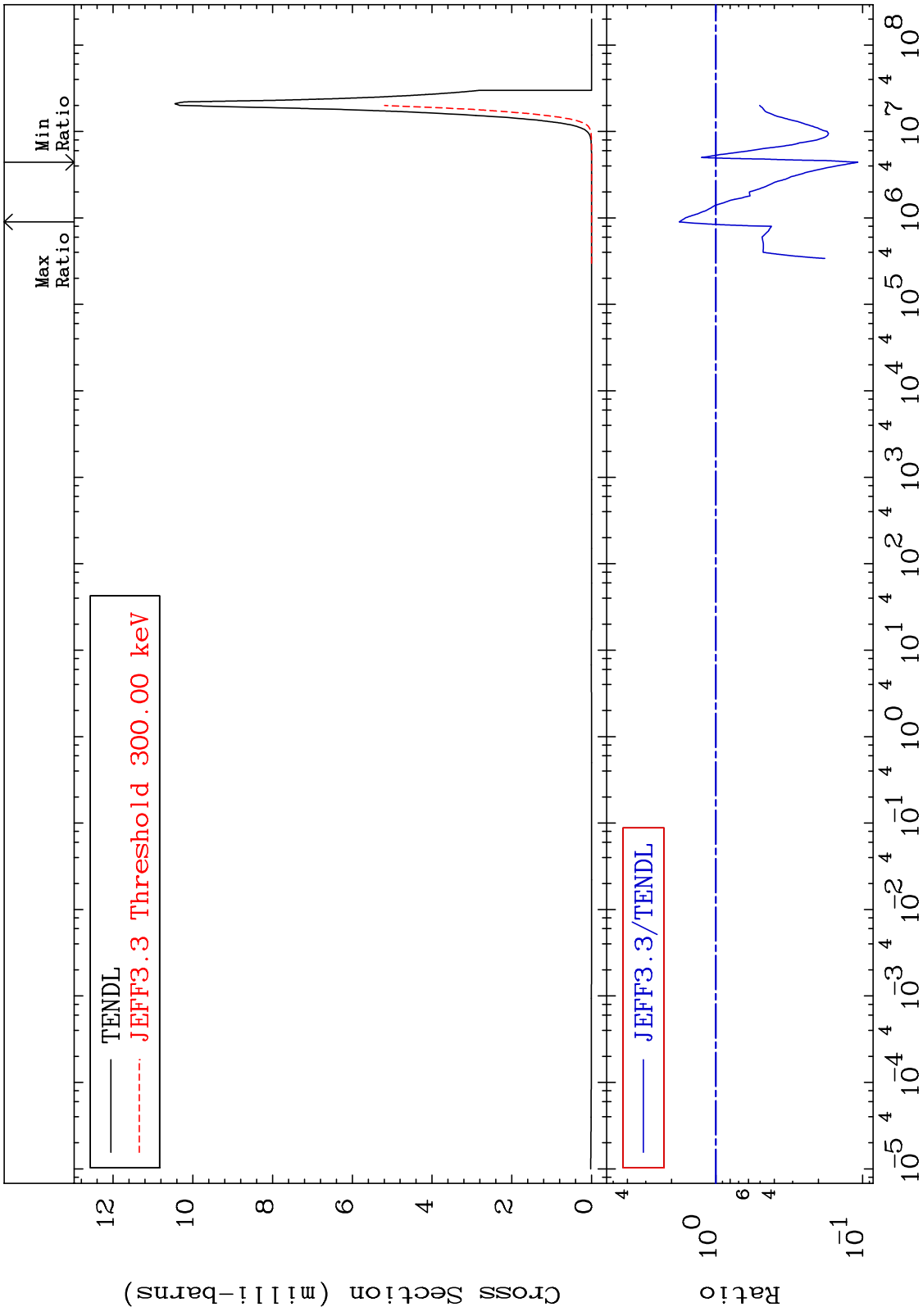


MAT 7240 (n, He-3) 72-Hf-179  
 Cross Section -45.89 To 3.146 %





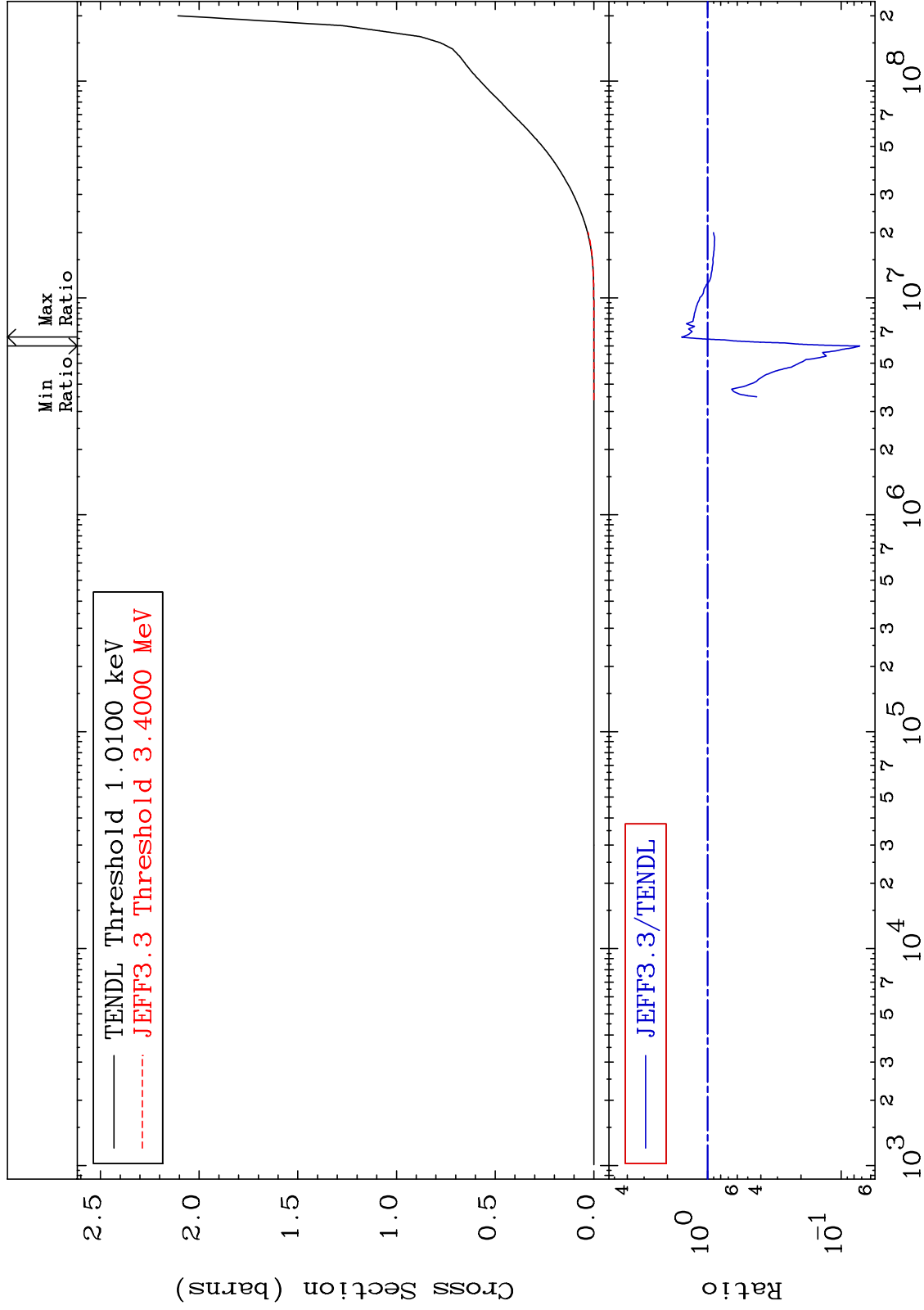
MAT 7240 (n,α) Cross Section 72-Hf-179  
 -89.22 To 77.99 %



MAT 7240

Hydrogen Production  
Cross Section

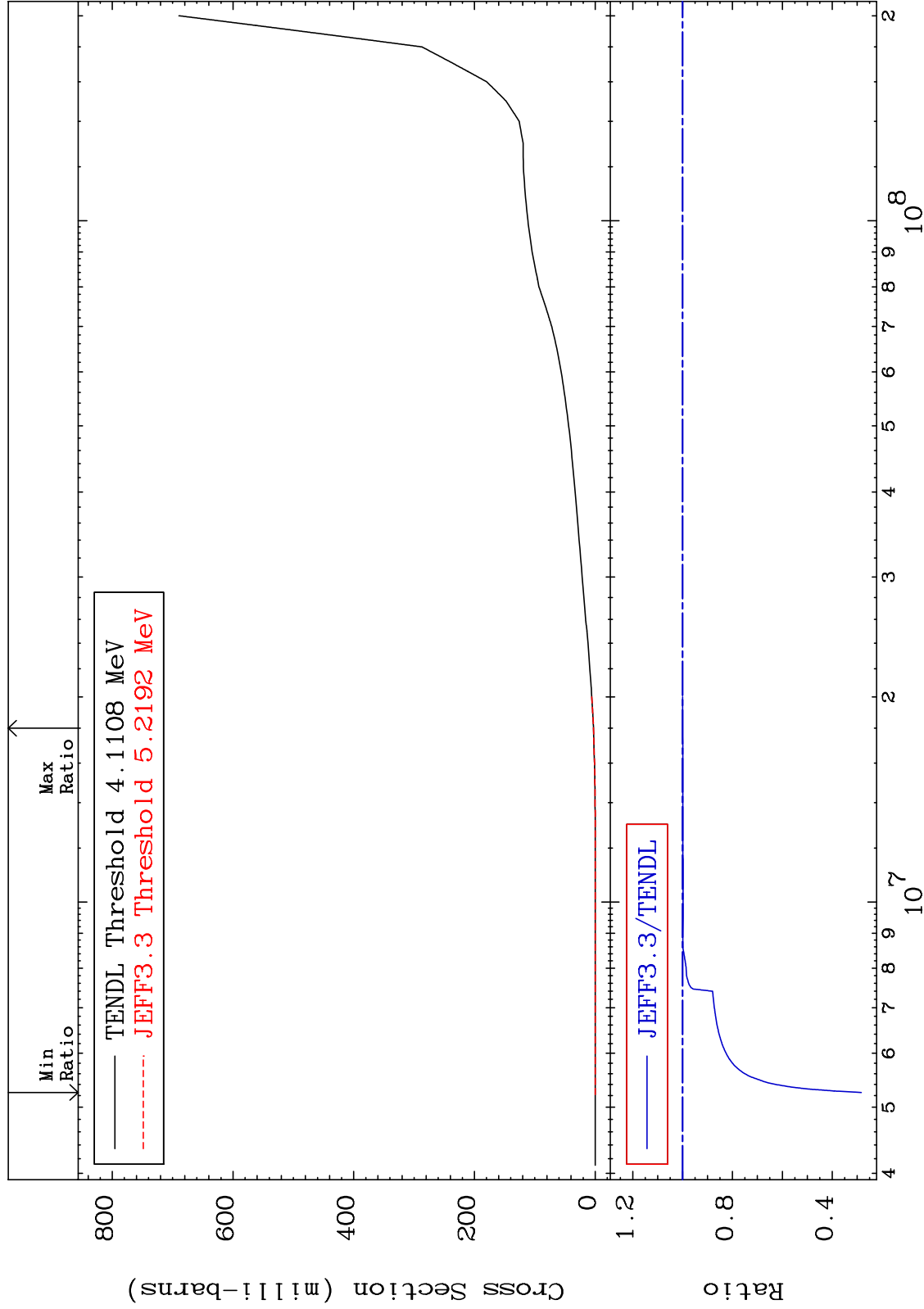
72-Hf-179  
-92.76 To 57.72 %



MAT 7240

Deuterium Production  
Cross Section

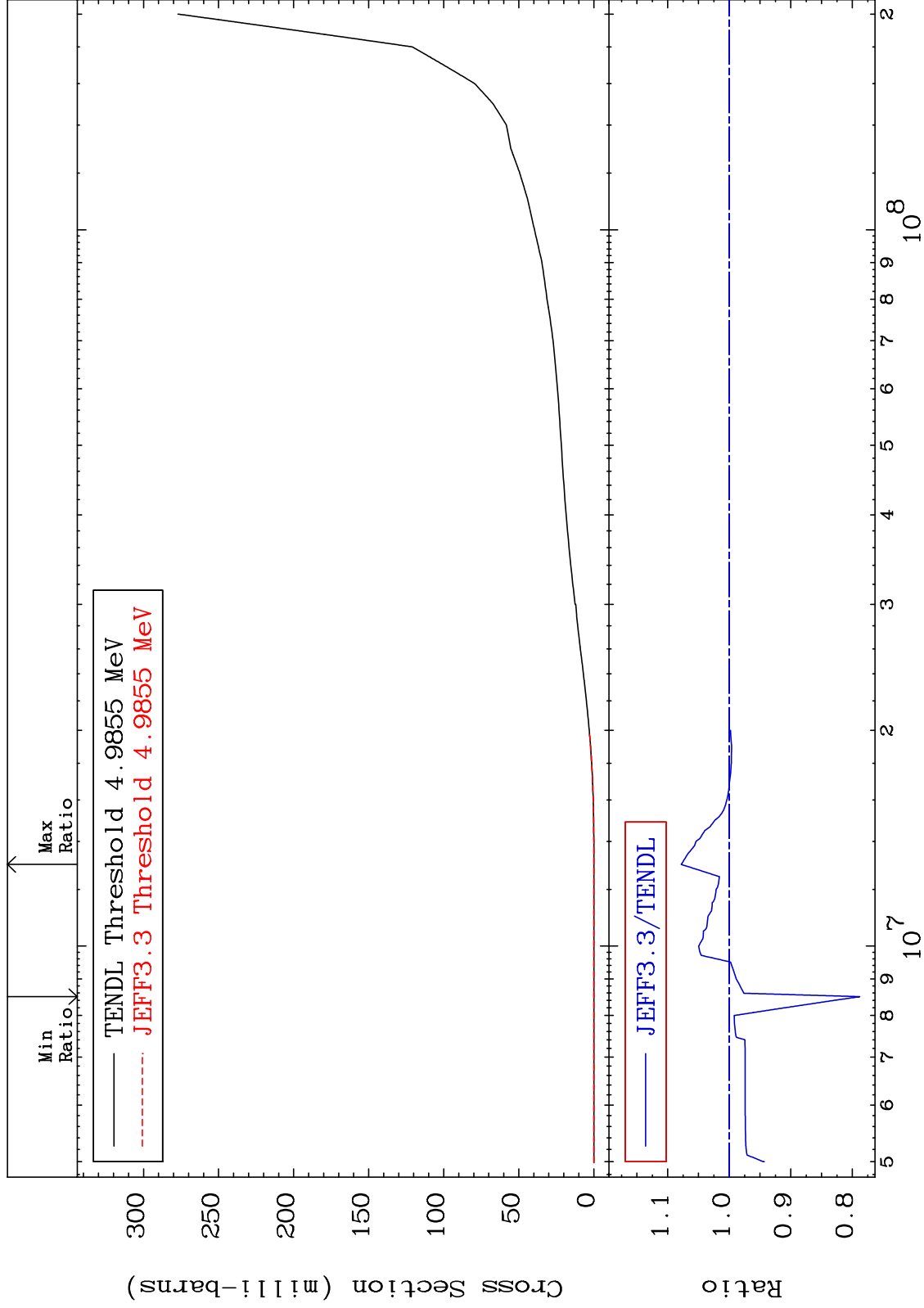
72-Hf-179  
-71.70 To -0.021%



MAT 7240

Tritium Production  
Cross Section

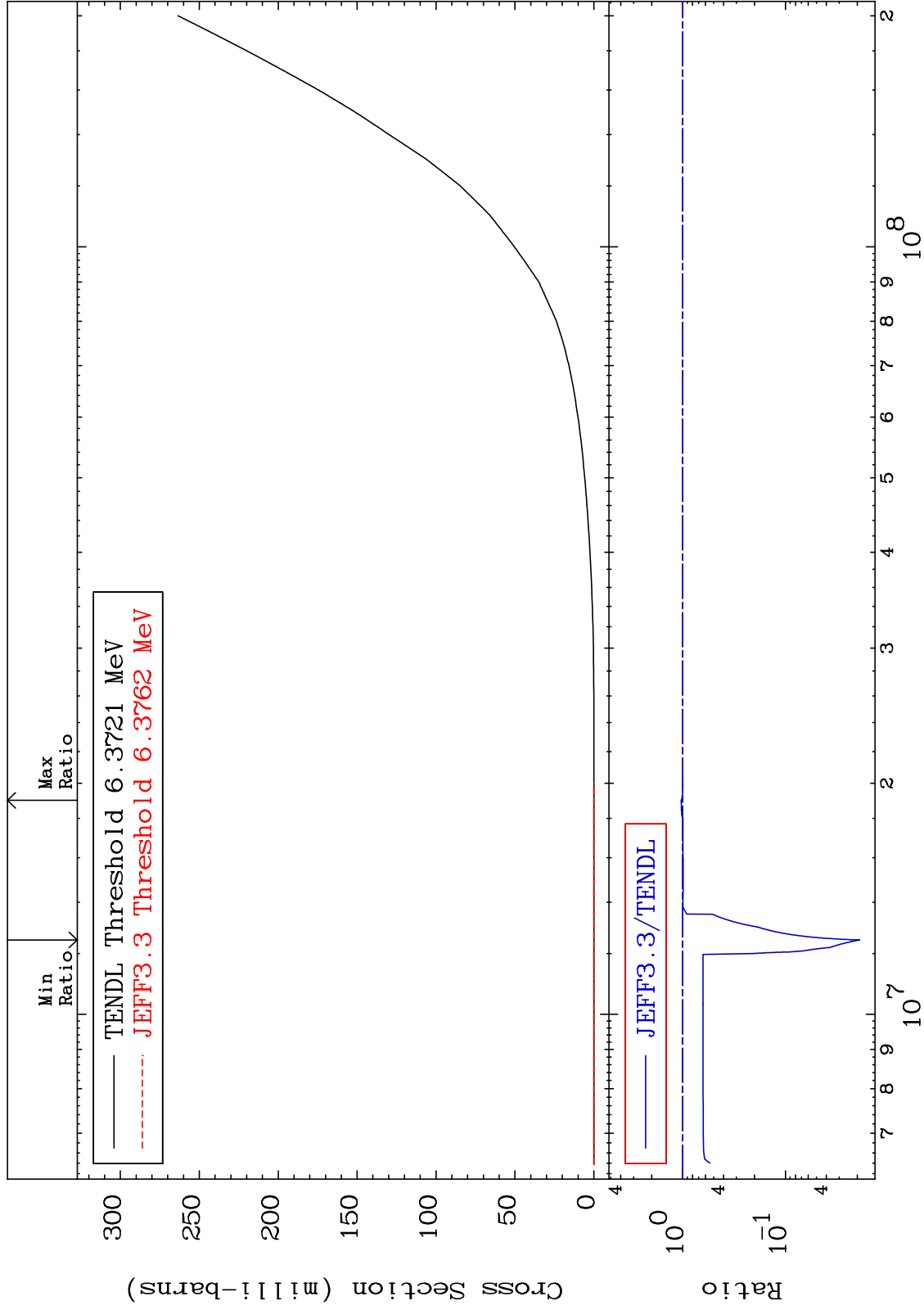
72-Hf-179  
-21.21 To 7.795 %



MAT 7240

He-3 Production  
Cross Section

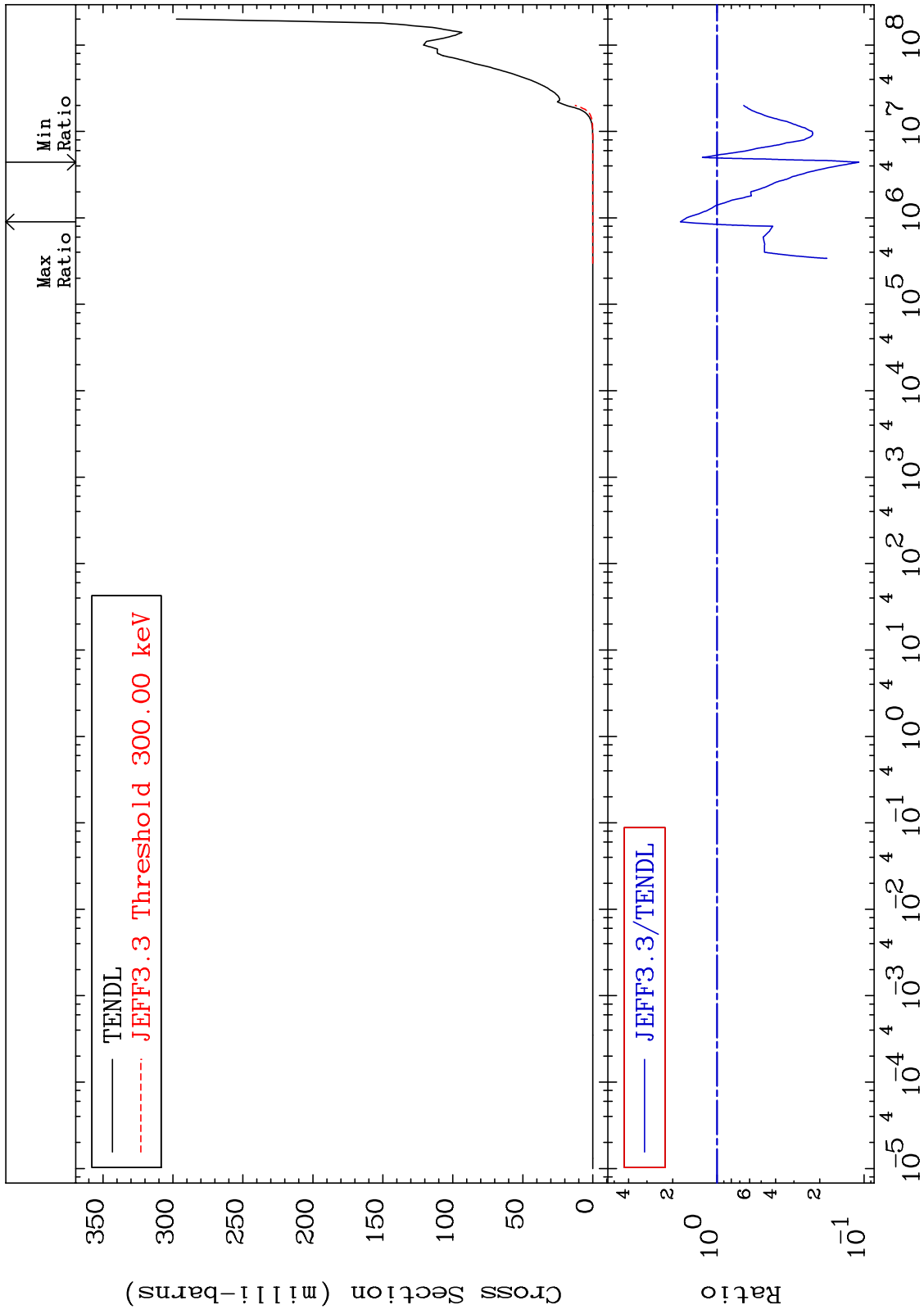
72-Hf-179  
-98.10 To 3.146 %



MAT 7240

He-4 Production  
Cross Section

72-Hf-179  
-89.16 To 77.99 %

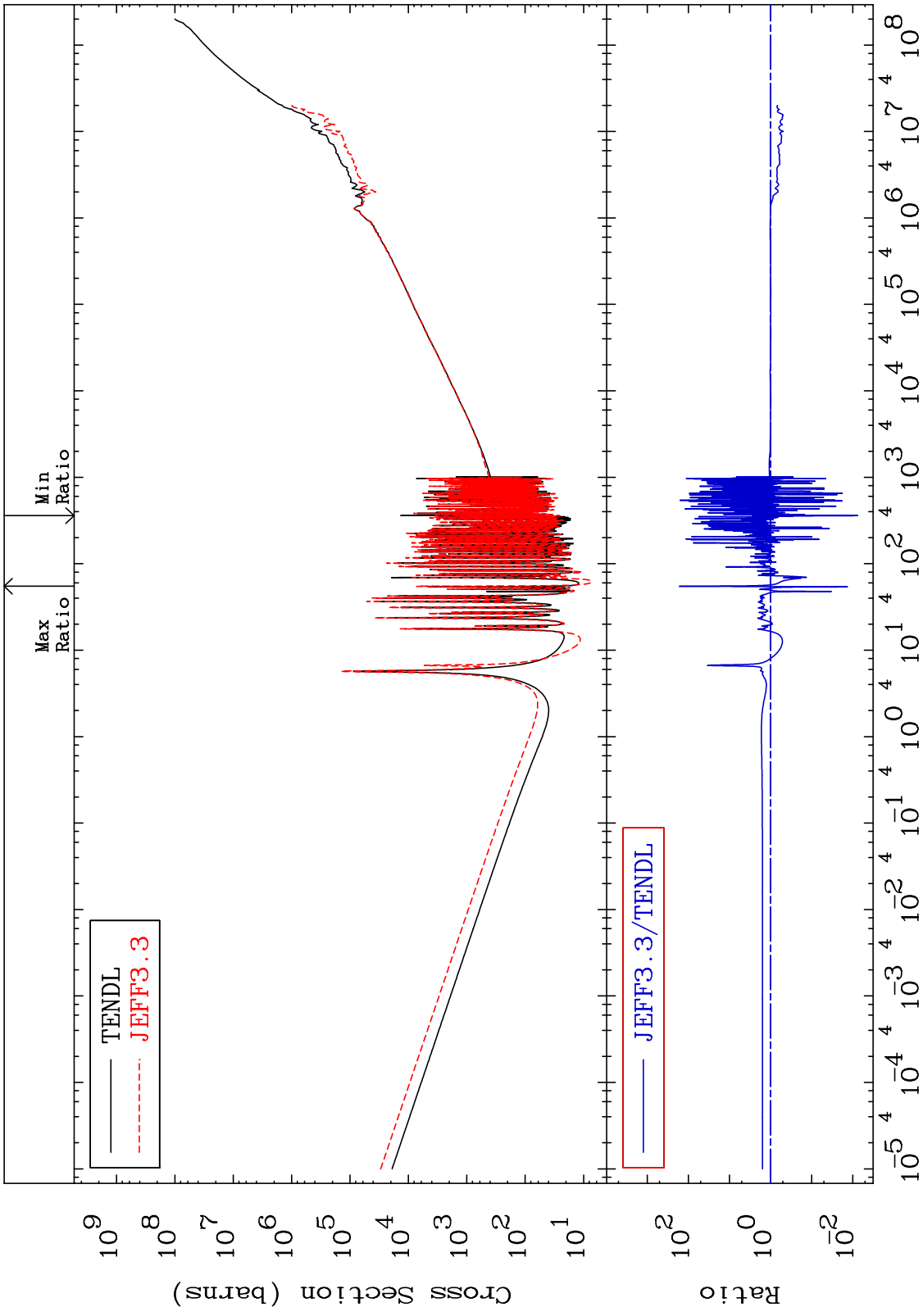


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Incident Energy (eV)

72-Hf-179

MAT 7240 Kerma total (eV-barns) 72-Hf-179  
 Cross Section -99.25 To 9999. %

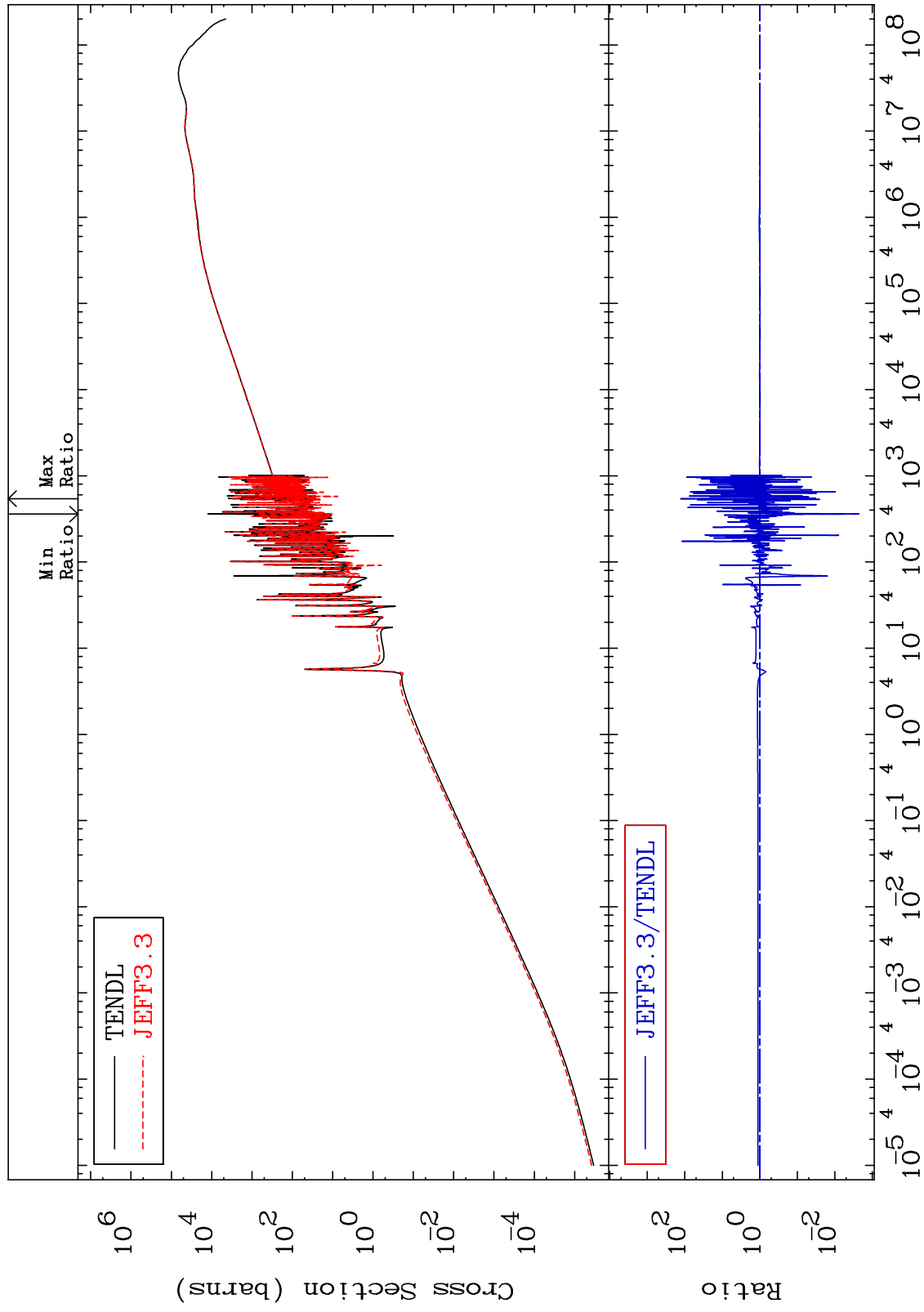


54 Incident Energy (eV) 72-Hf-179

MAT 7240

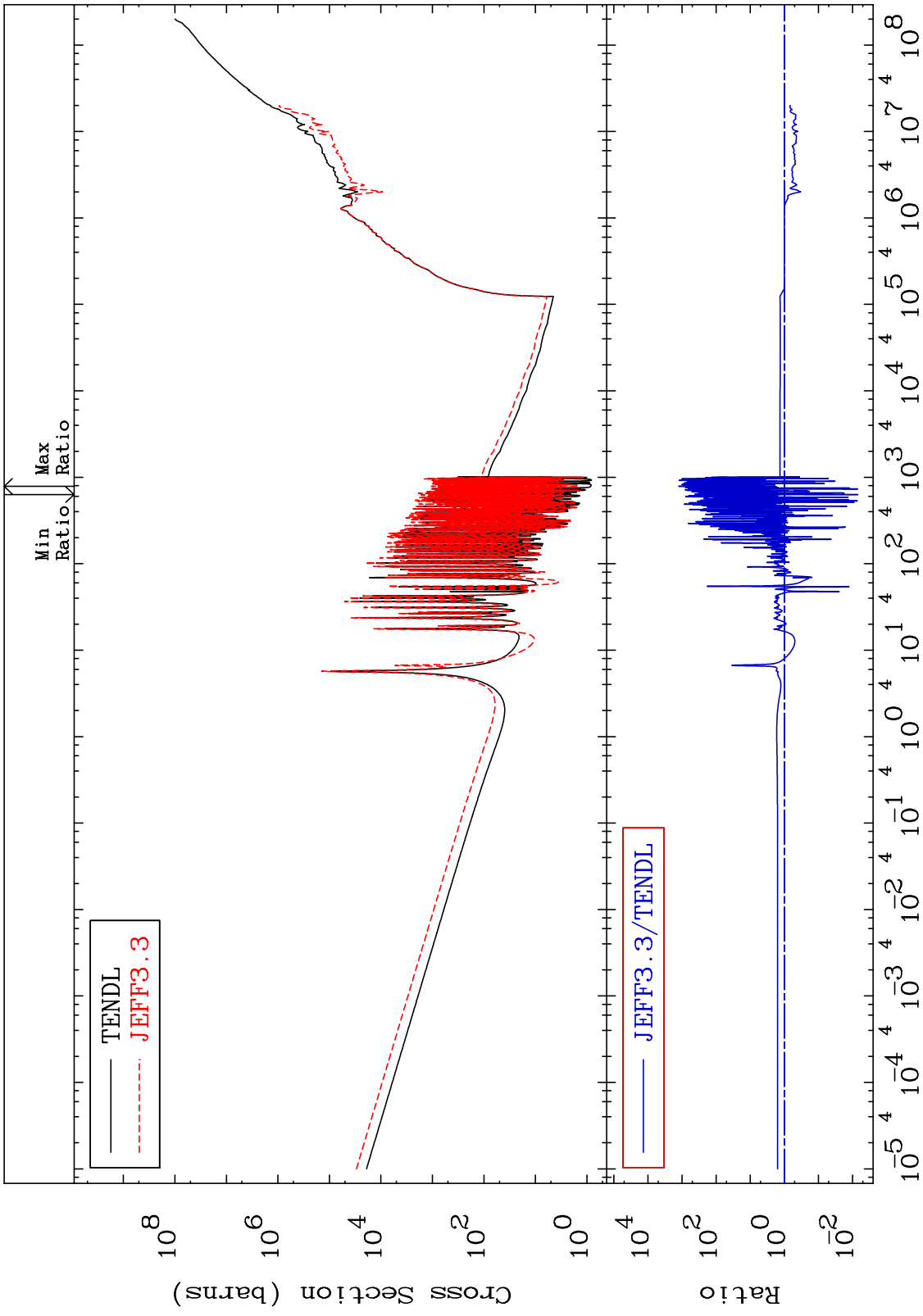
Kerma elastic  
Cross Section

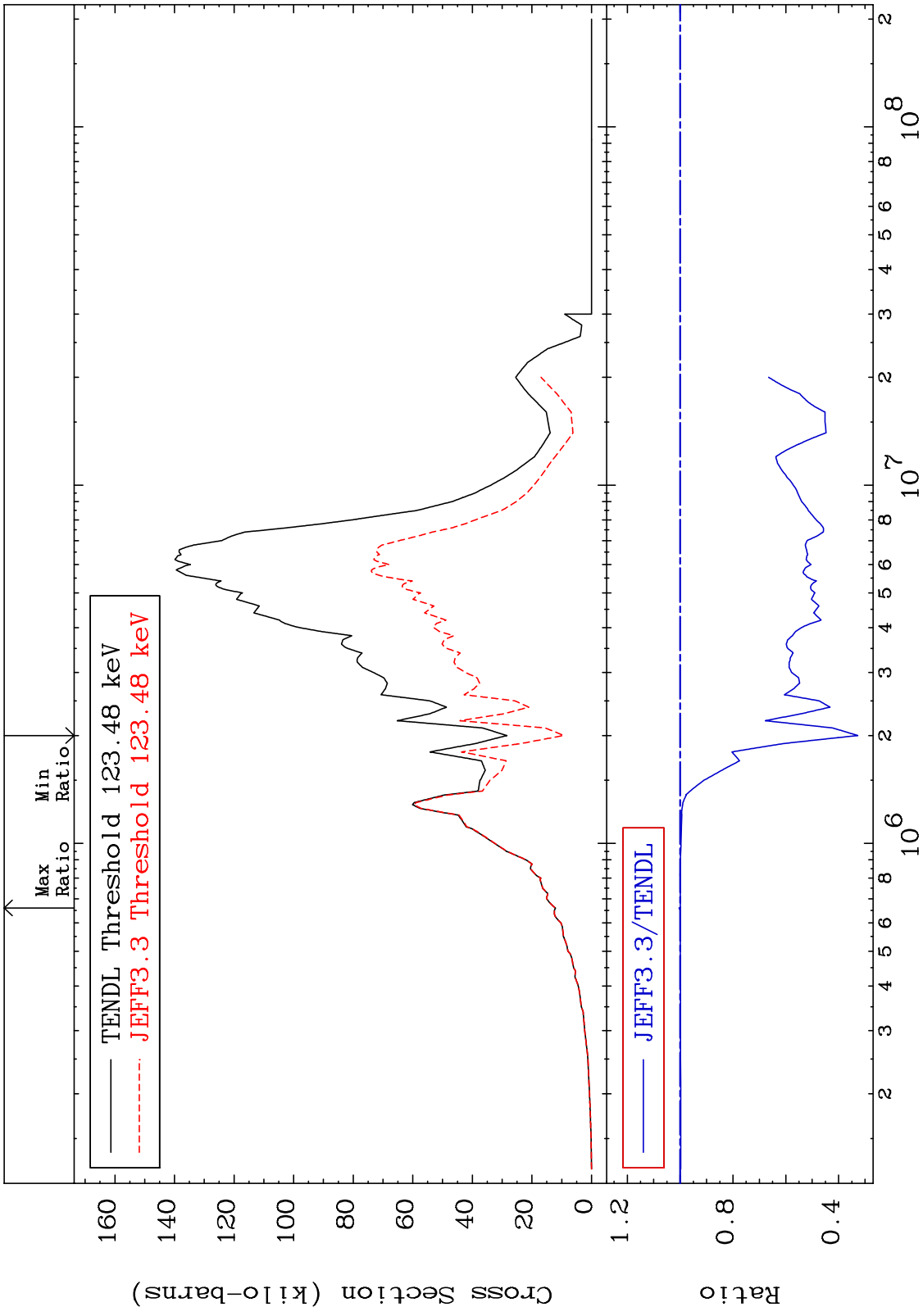
72-Hf-179  
-99.77 To 9999. %





MAT 7240 Kerma non-elastic (all but mt2) 72-Hf-179  
 Cross Section -99.30 To 9999. %

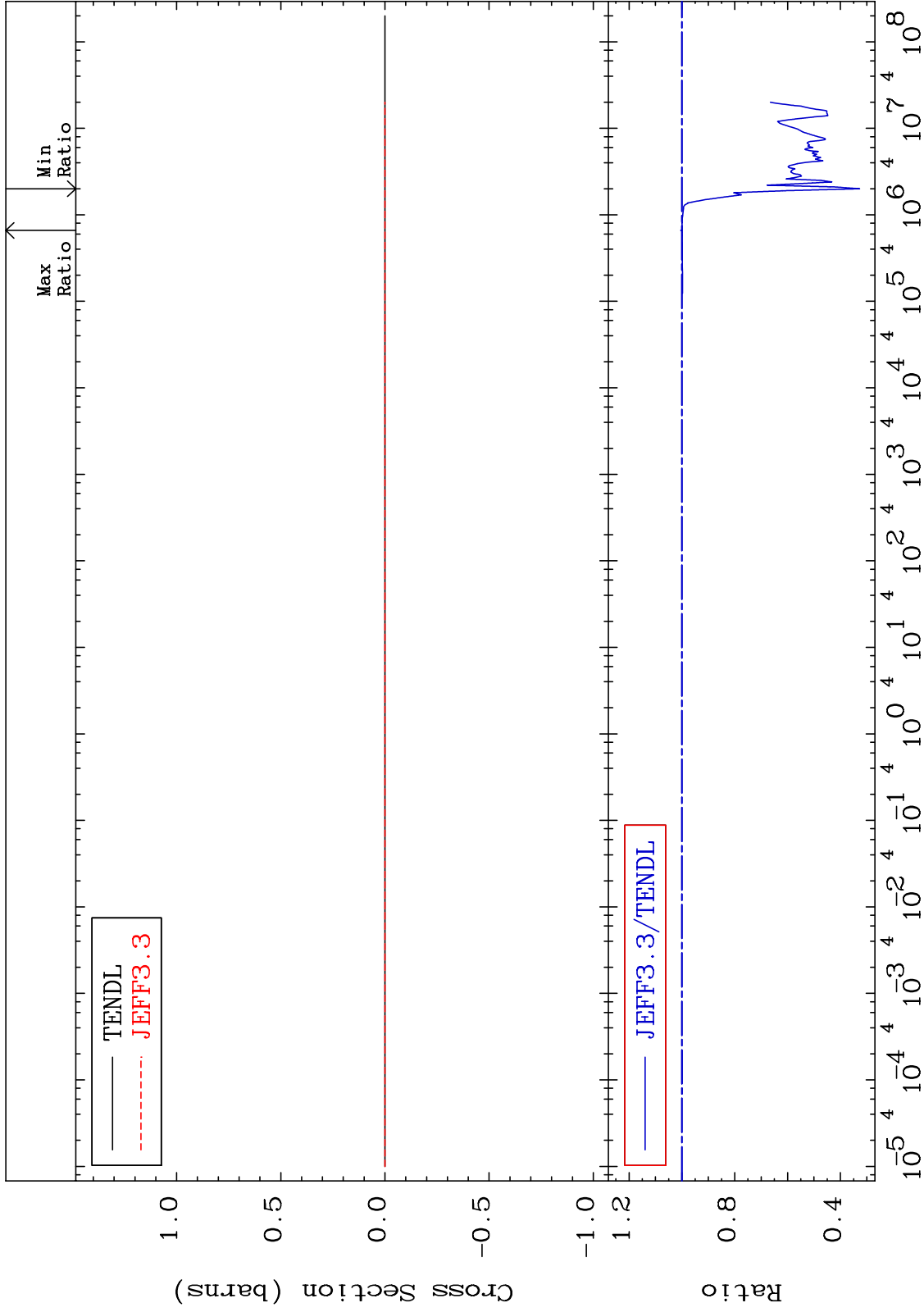




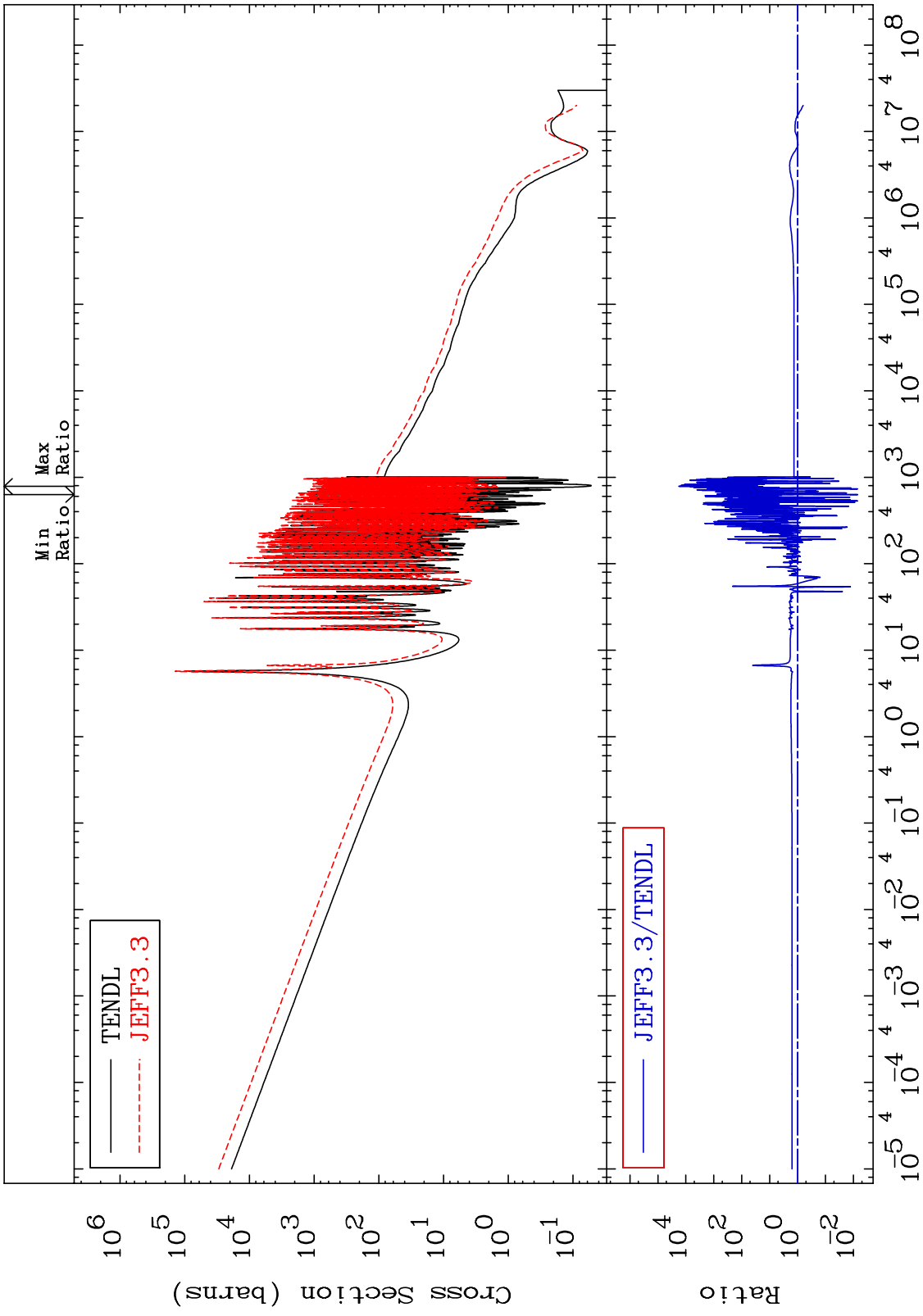
MAT 7240

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

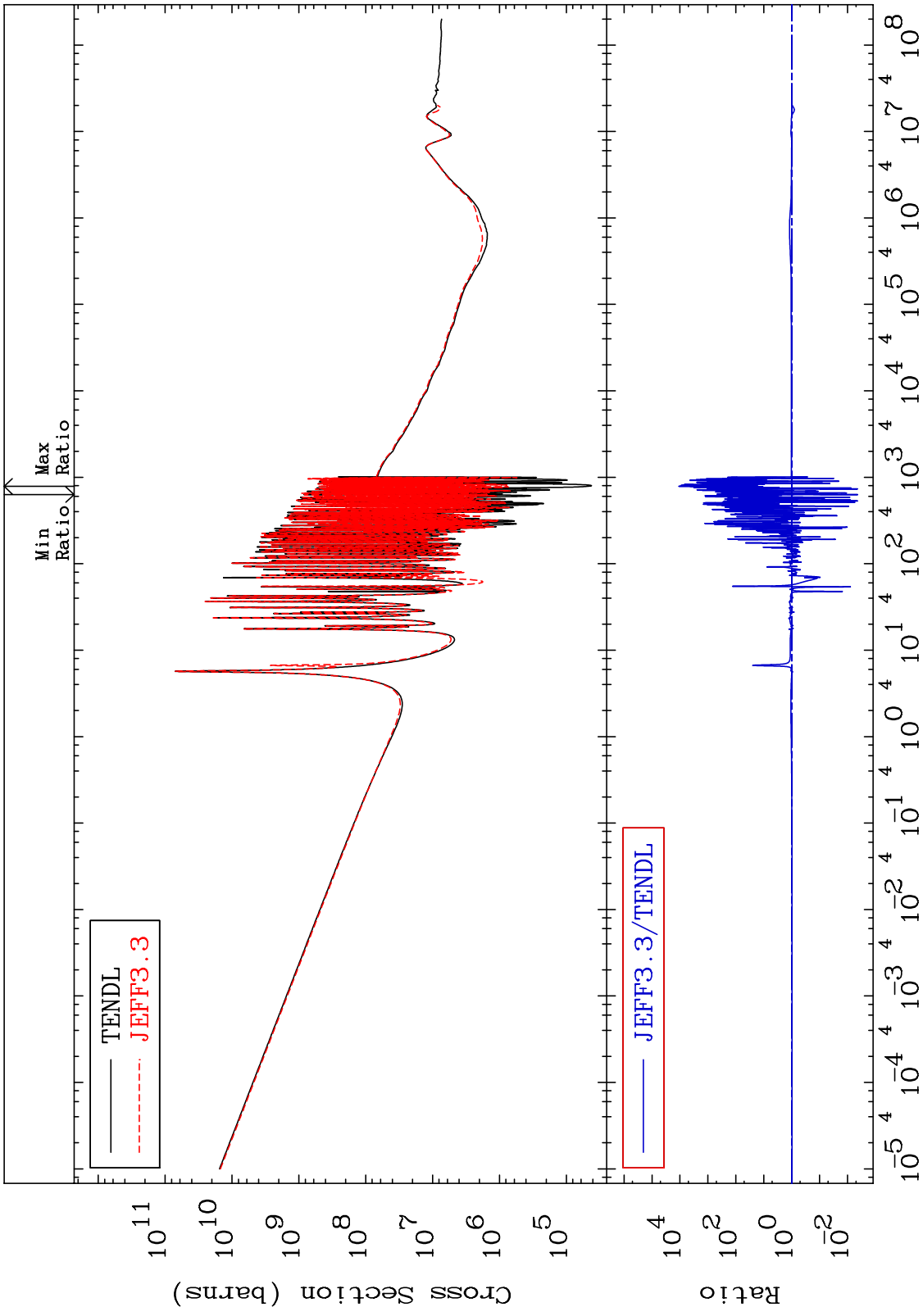
72-Hf-179  
-67.28 To 0.410 %

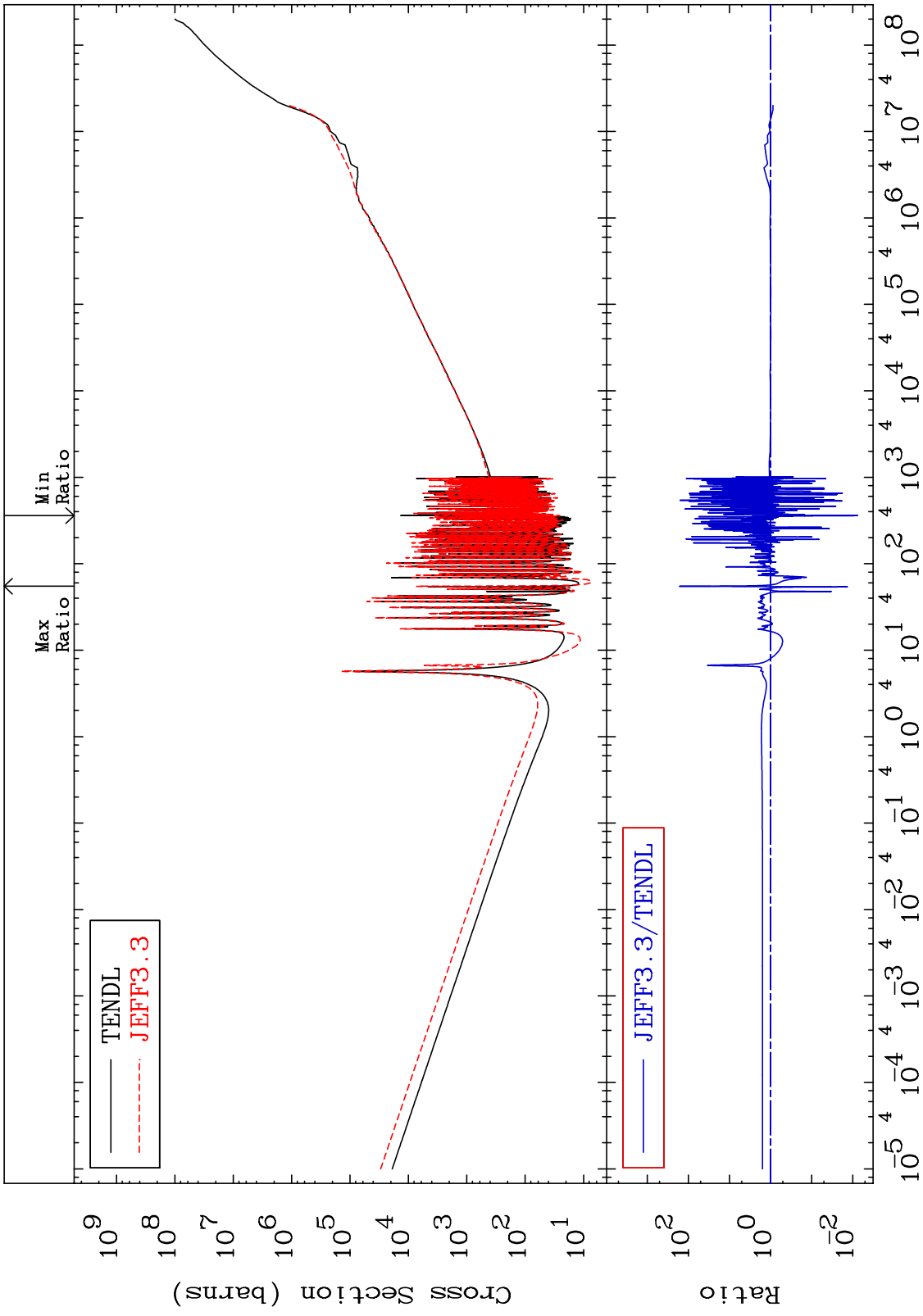


MAT 7240      Kerma capture (mt102)      72-Hf-179  
 -99.30 To 9999. %

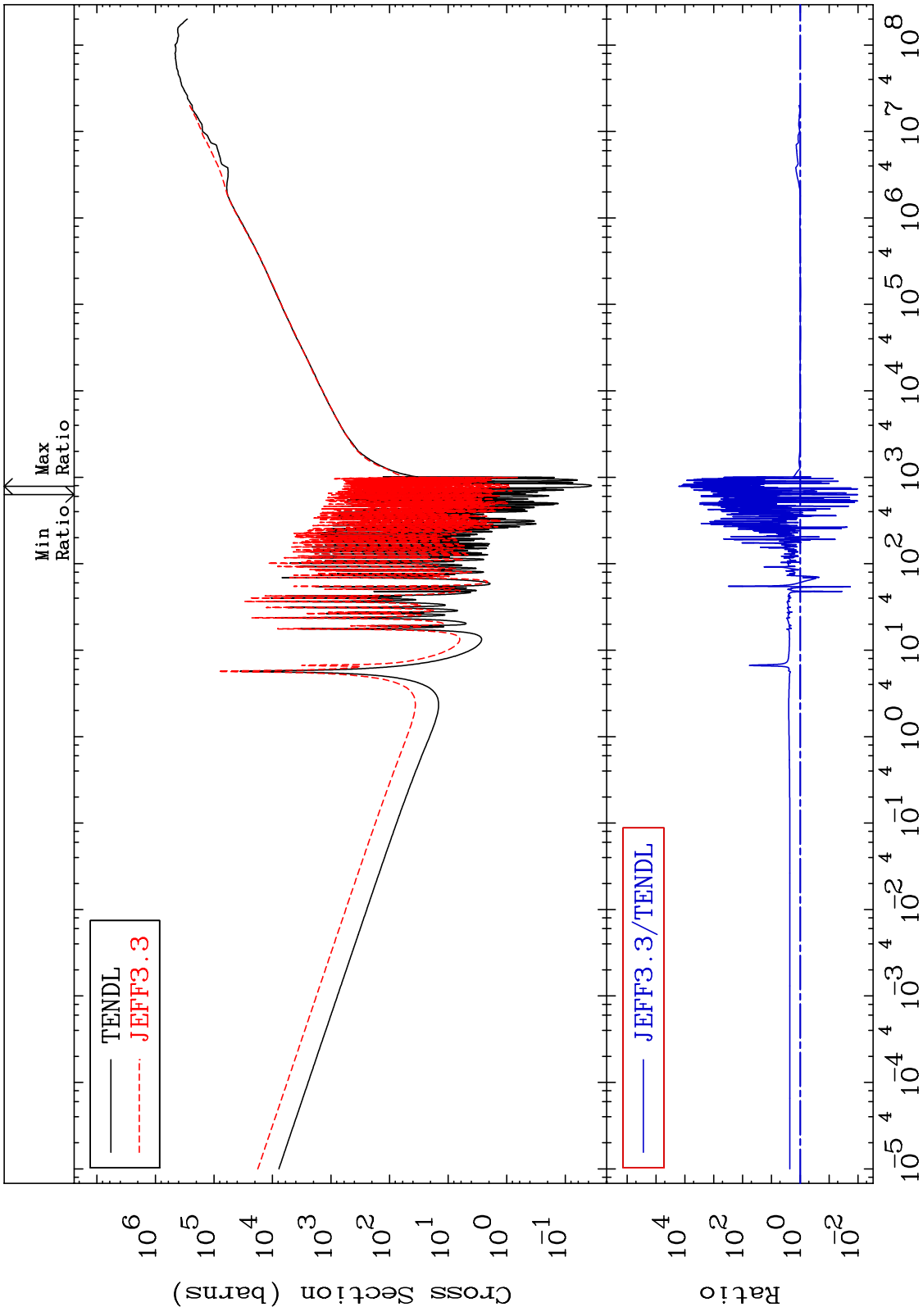


MAT 7240 72-Hf-179  
Total photon (eV-barns) Cross Section -99.57 To 9999. %

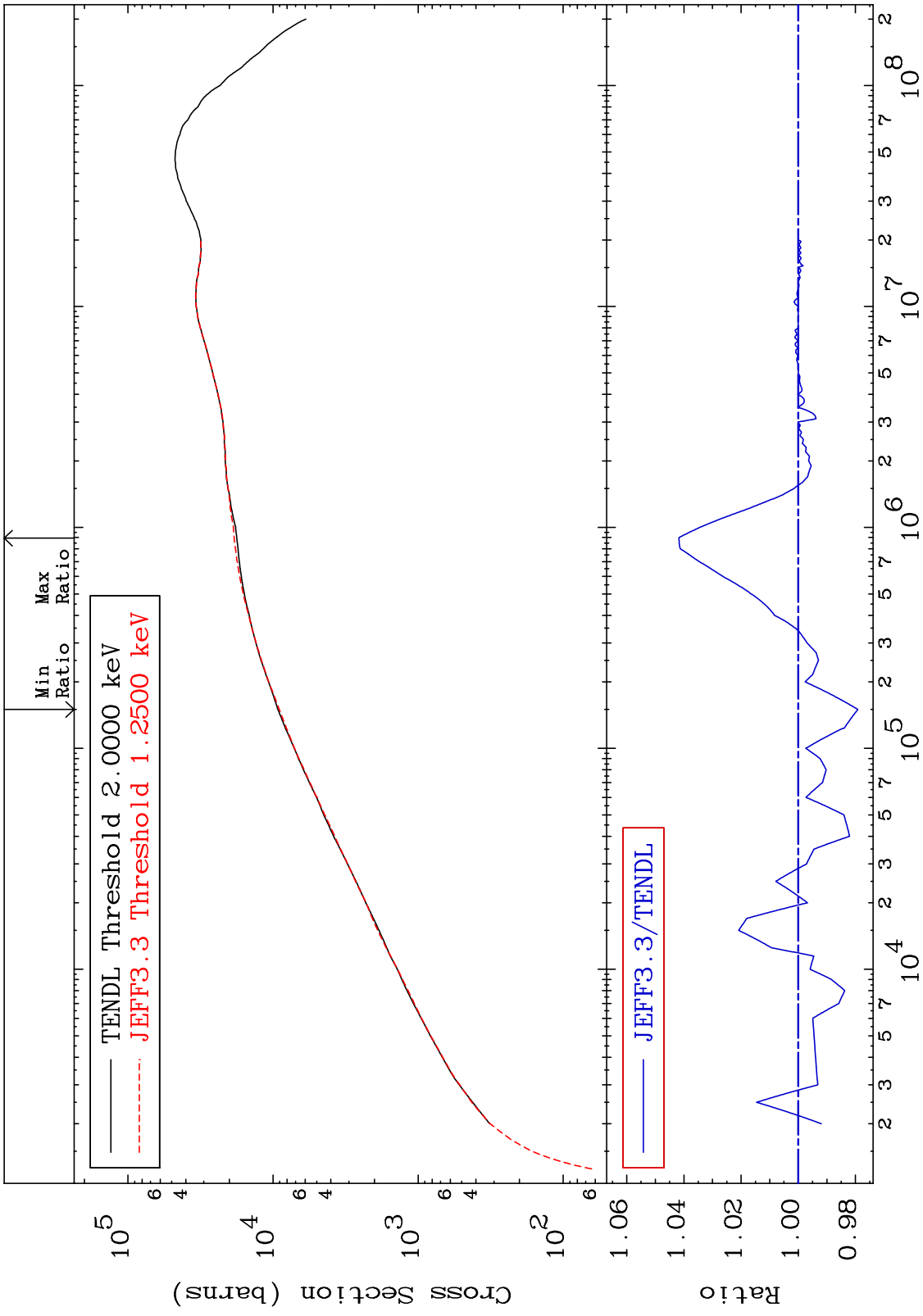




MAT 7240      Dpa total (eV-barns)      72-Hf-179  
 Cross Section      -98.99 To 9999. %

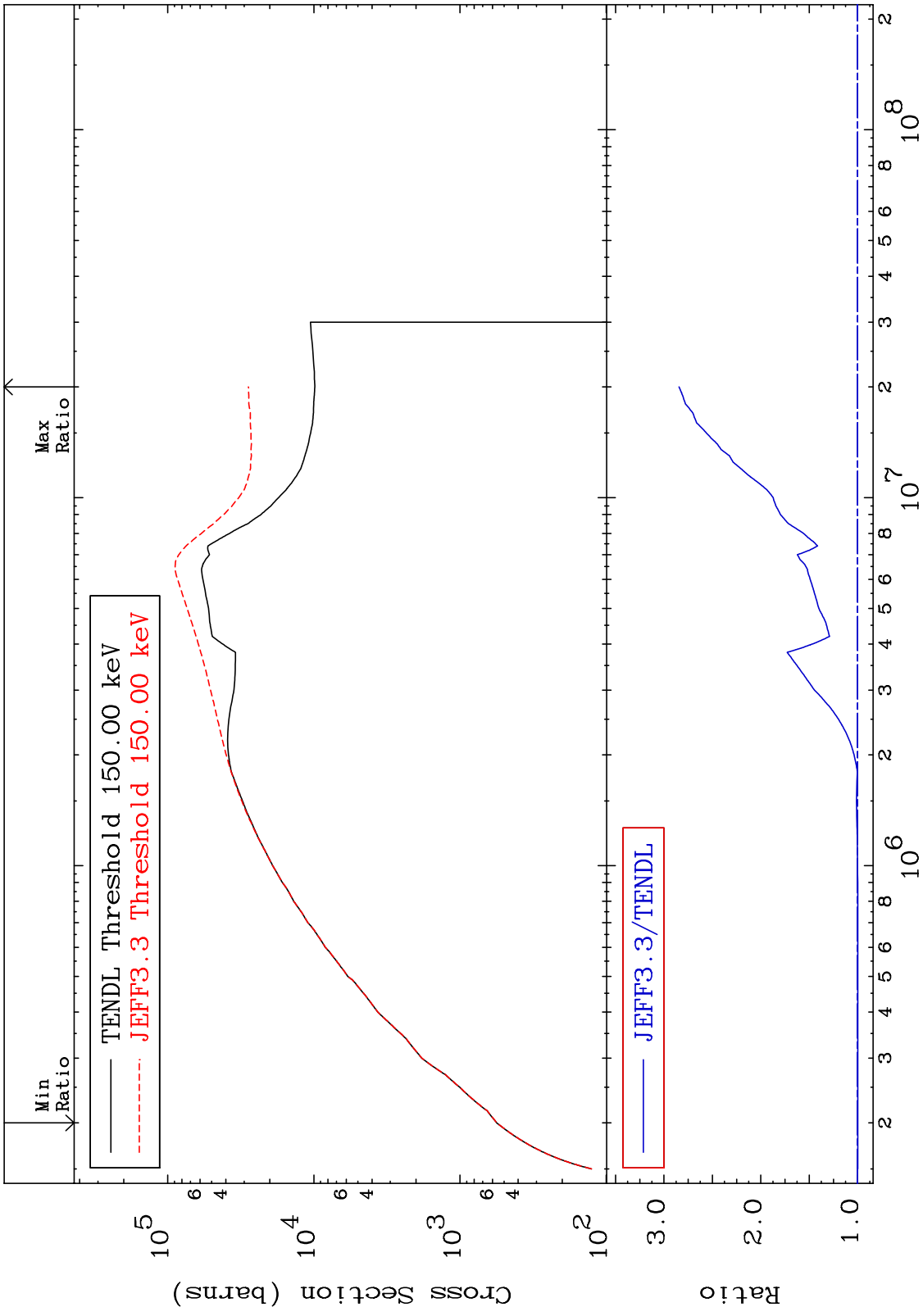


MAT 7240 72-Hf-179  
-2.083 To 4.170 %  
 Dpa elastic (mt2)  
 Cross Section



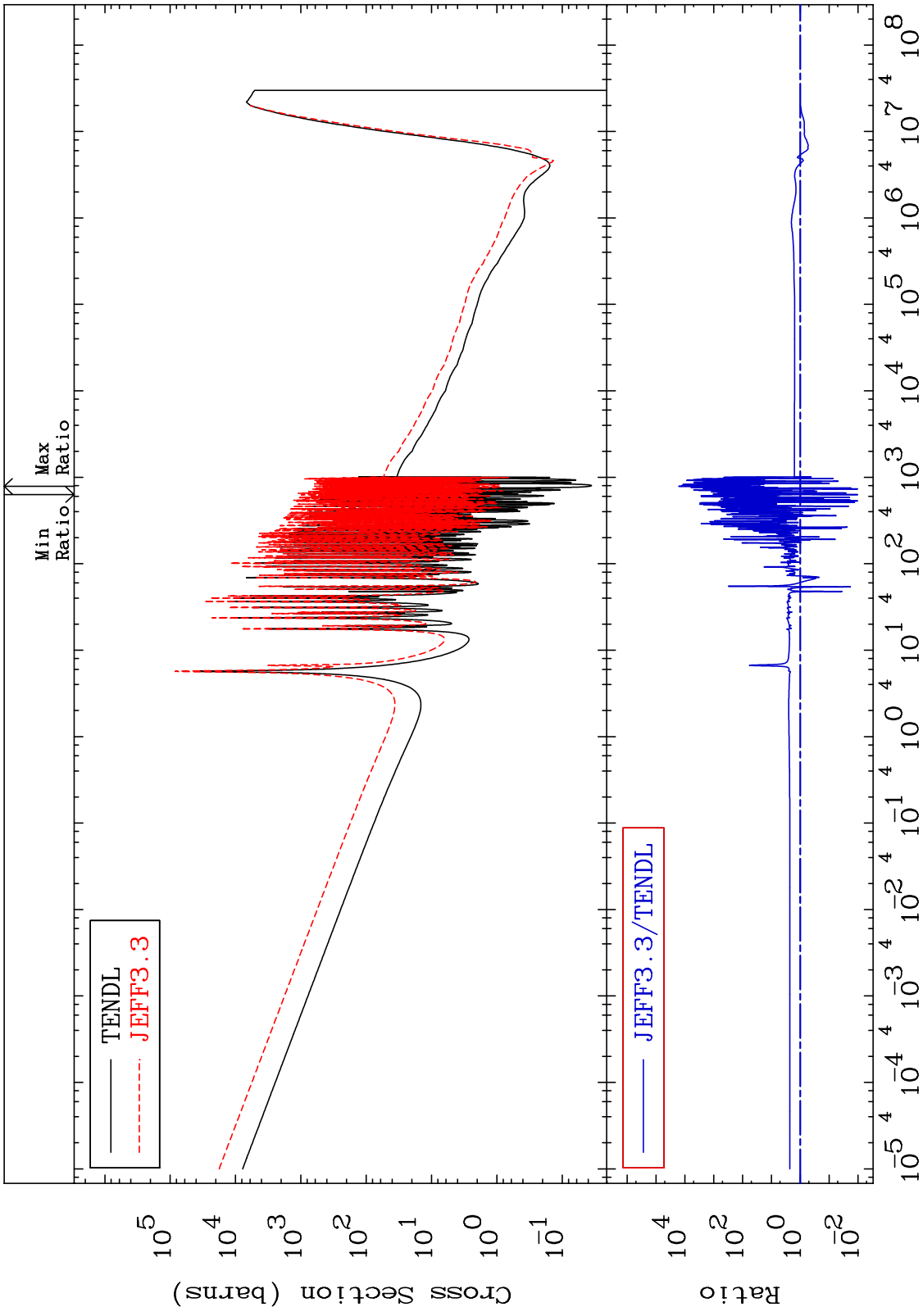


MAT 7240 Dpa inelastic (mt51-91) 72-Hf-179  
 Cross Section -0.214 To 184.4 %



64 Incident Energy (eV) 72-Hf-179

MAT 7240      Dpa disappearance (mt102 -120)      72-Hf-179  
 Cross Section      -98.99 To 9999. %

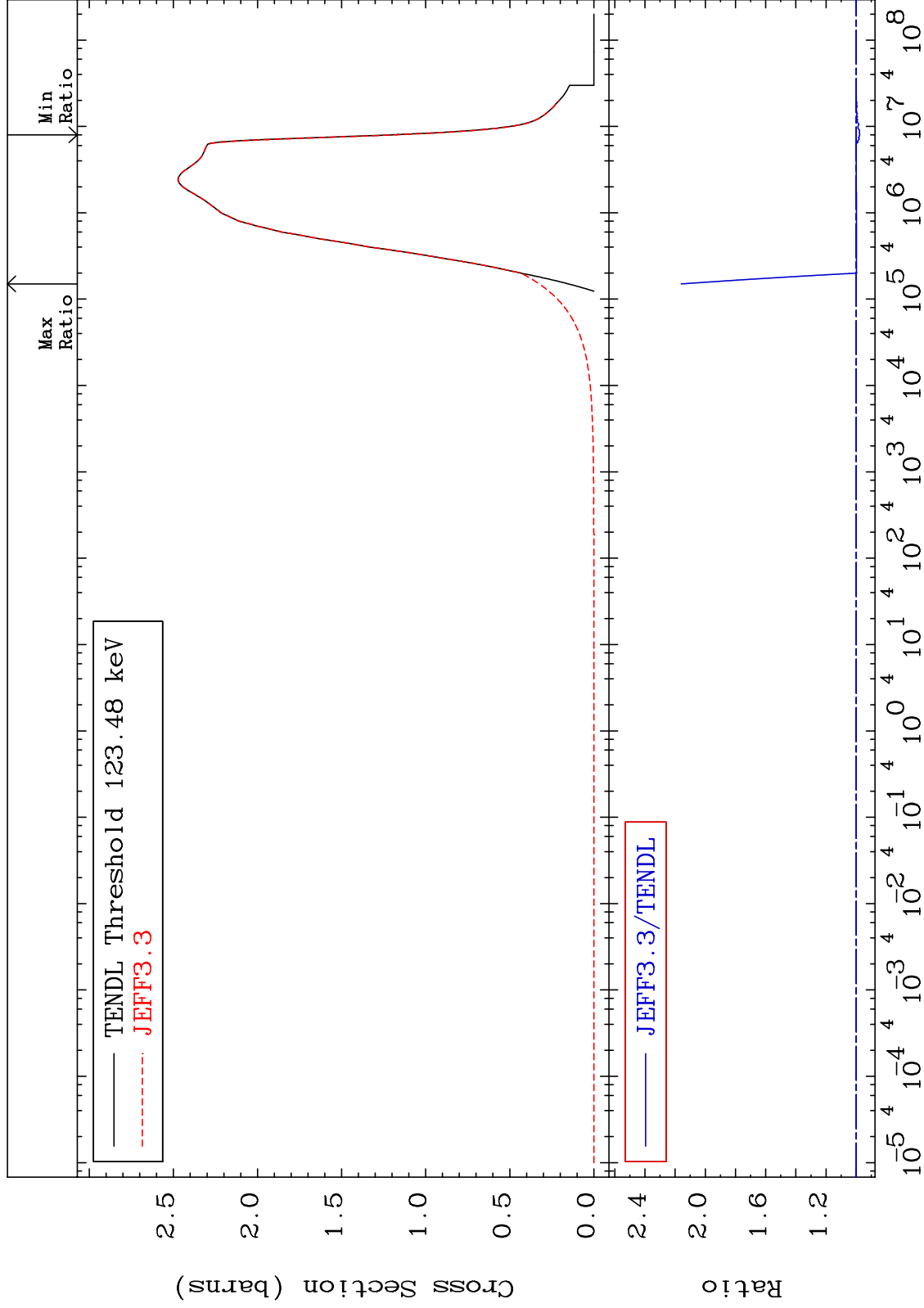


MAT 7240

Inelastic: 72-Hf-179g

72-Hf-179

Radionuclide Production Cross Section -2.340 To 116.0 %

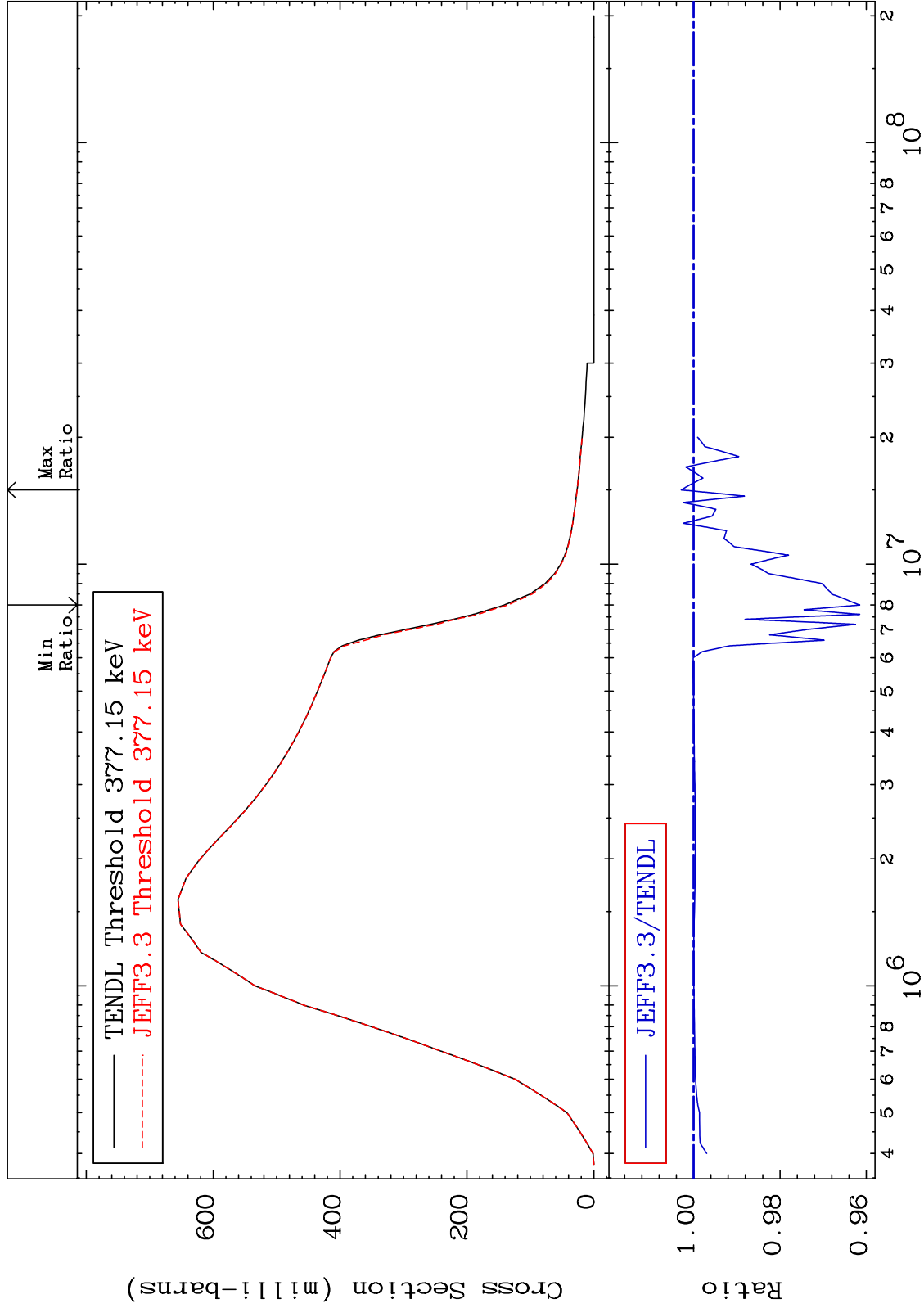


MAT 7240

Inelastic: 72-Hf-179m5

72-Hf-179

Radionuclide Production Cross Section -3.848 To 0.287 %

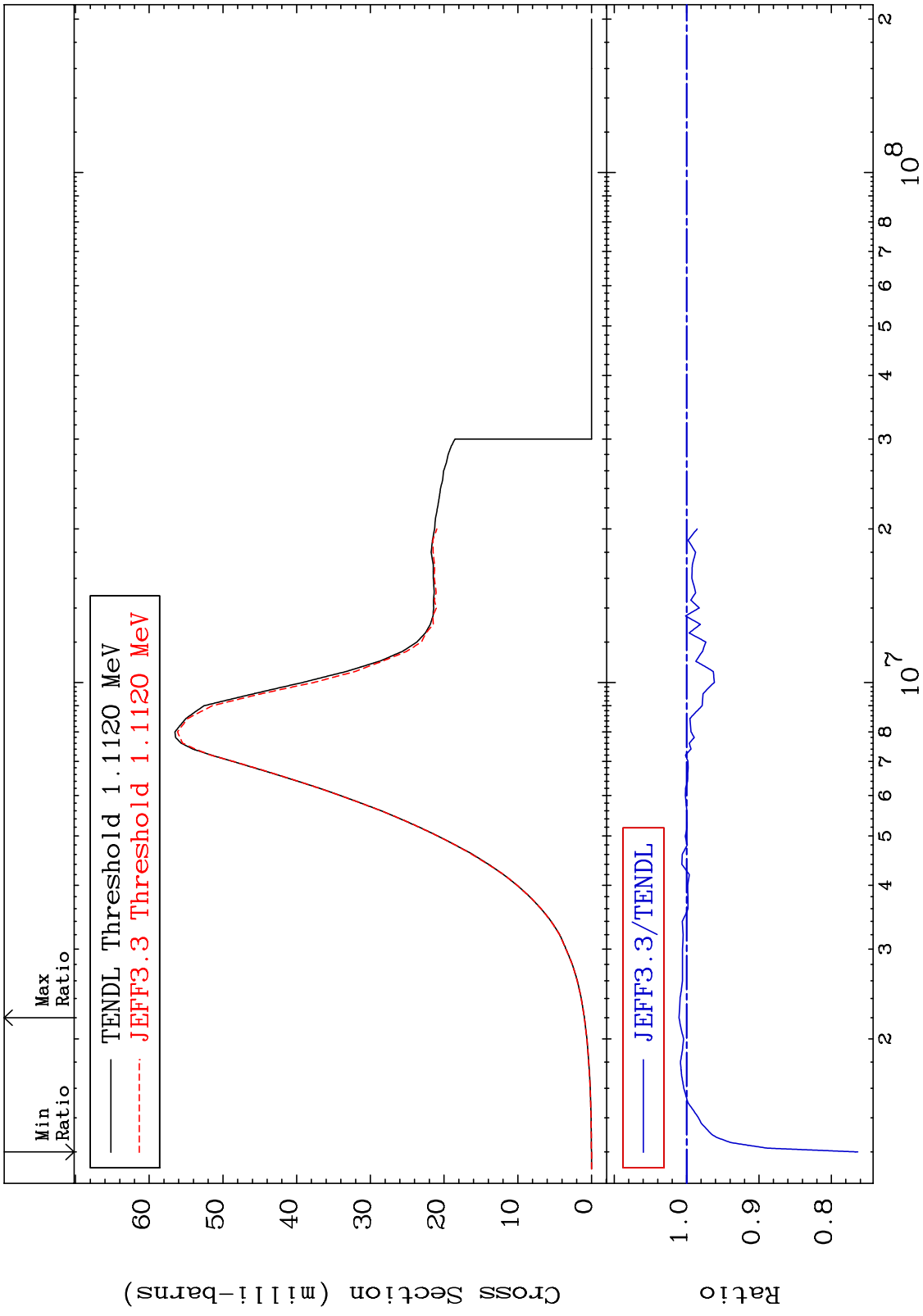


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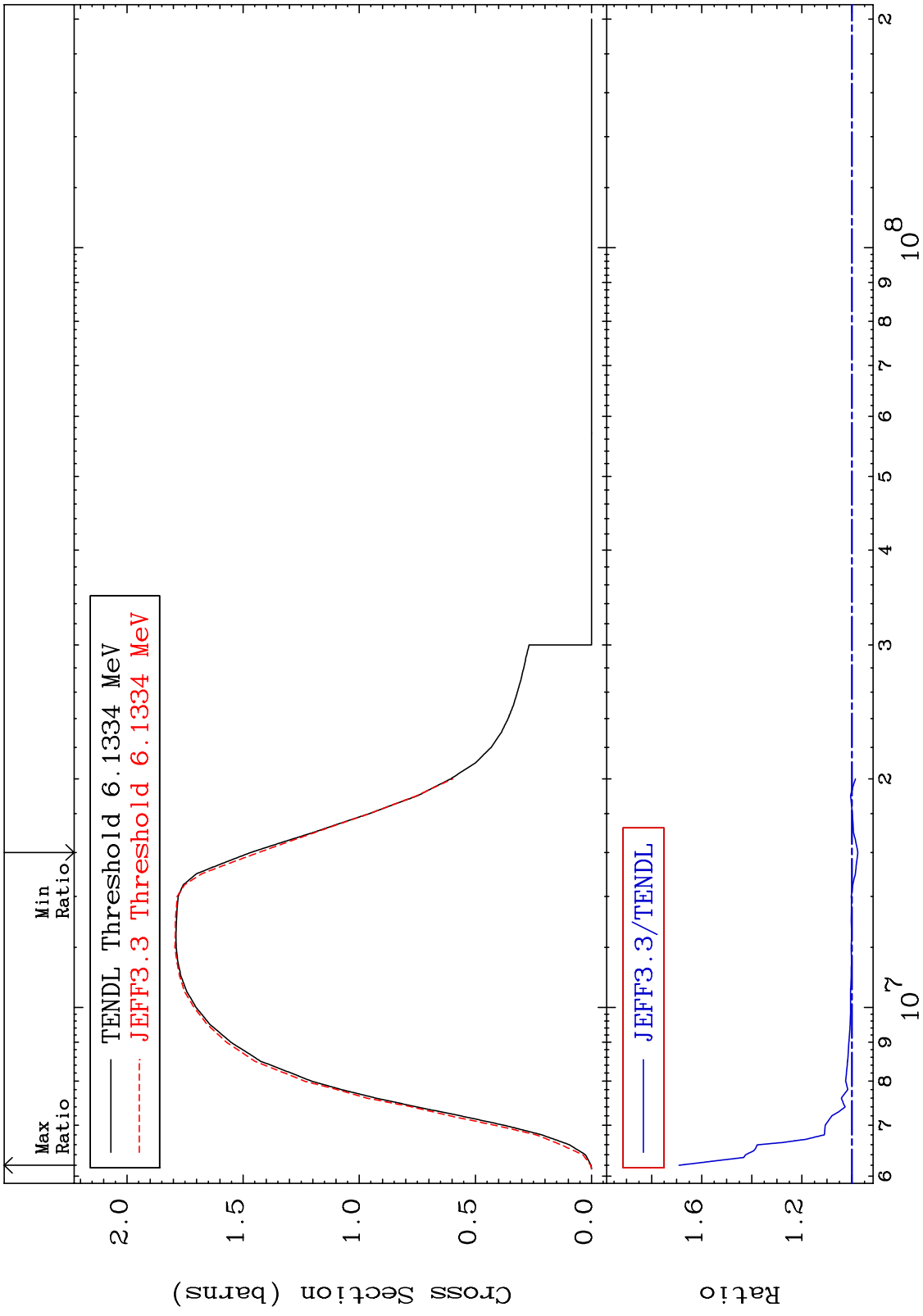
Incident Energy (eV)

72-Hf-179

MAT 7240 Inelastic: 72-Hf-179m30 72-Hf-179  
 Radionuclide Production Cross Section -23.66 To 1.048 %



MAT 7240 (n,2n):72-Hf-178g 72-Hf-179  
 Radionuclide Production Cross Section -2.340 To 69.03 %

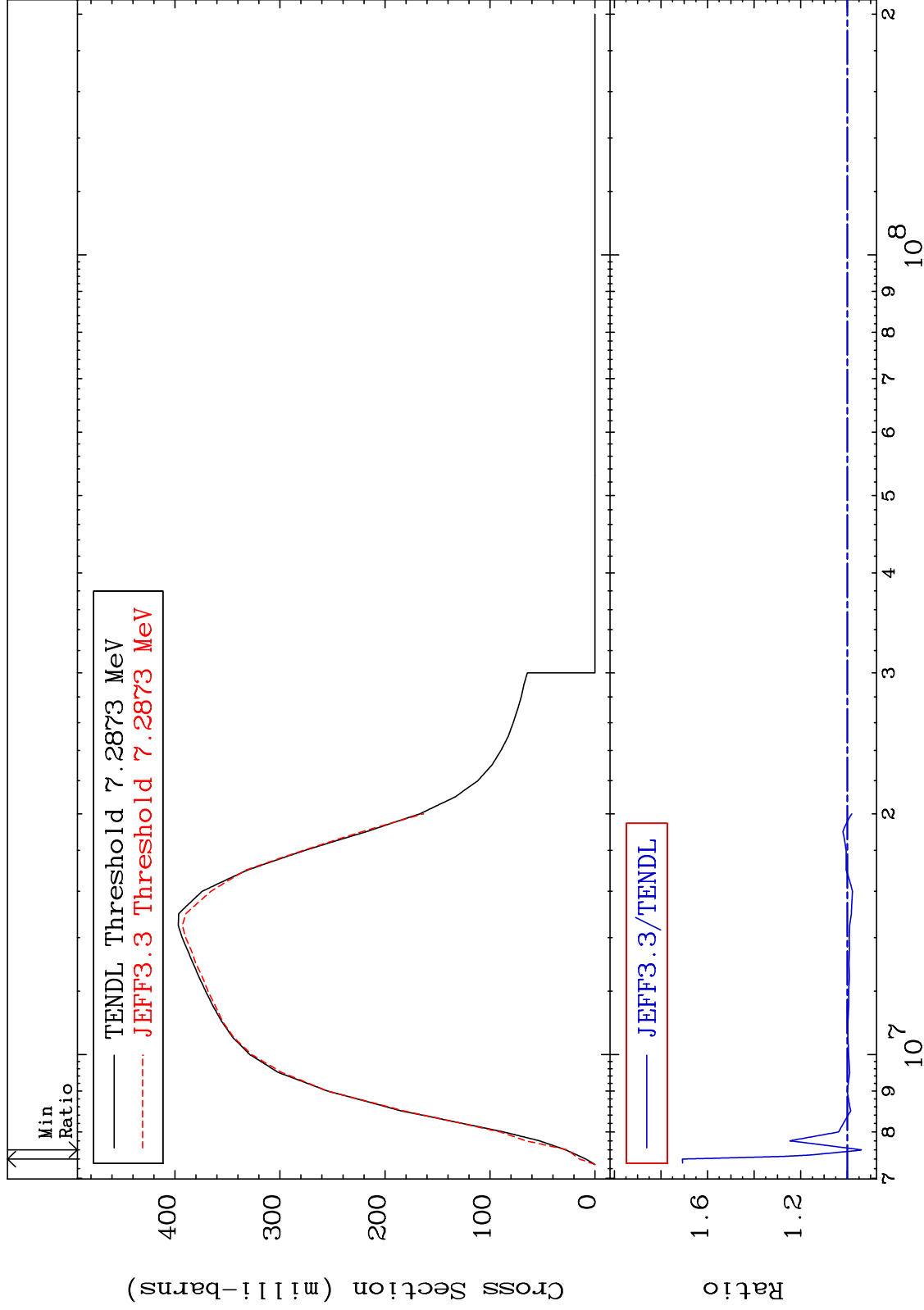


MAT 7240

(n,2n):72-Hf-178m5

72-Hf-179

Radionuclide Production Cross Section -5.980 To 70.75 %

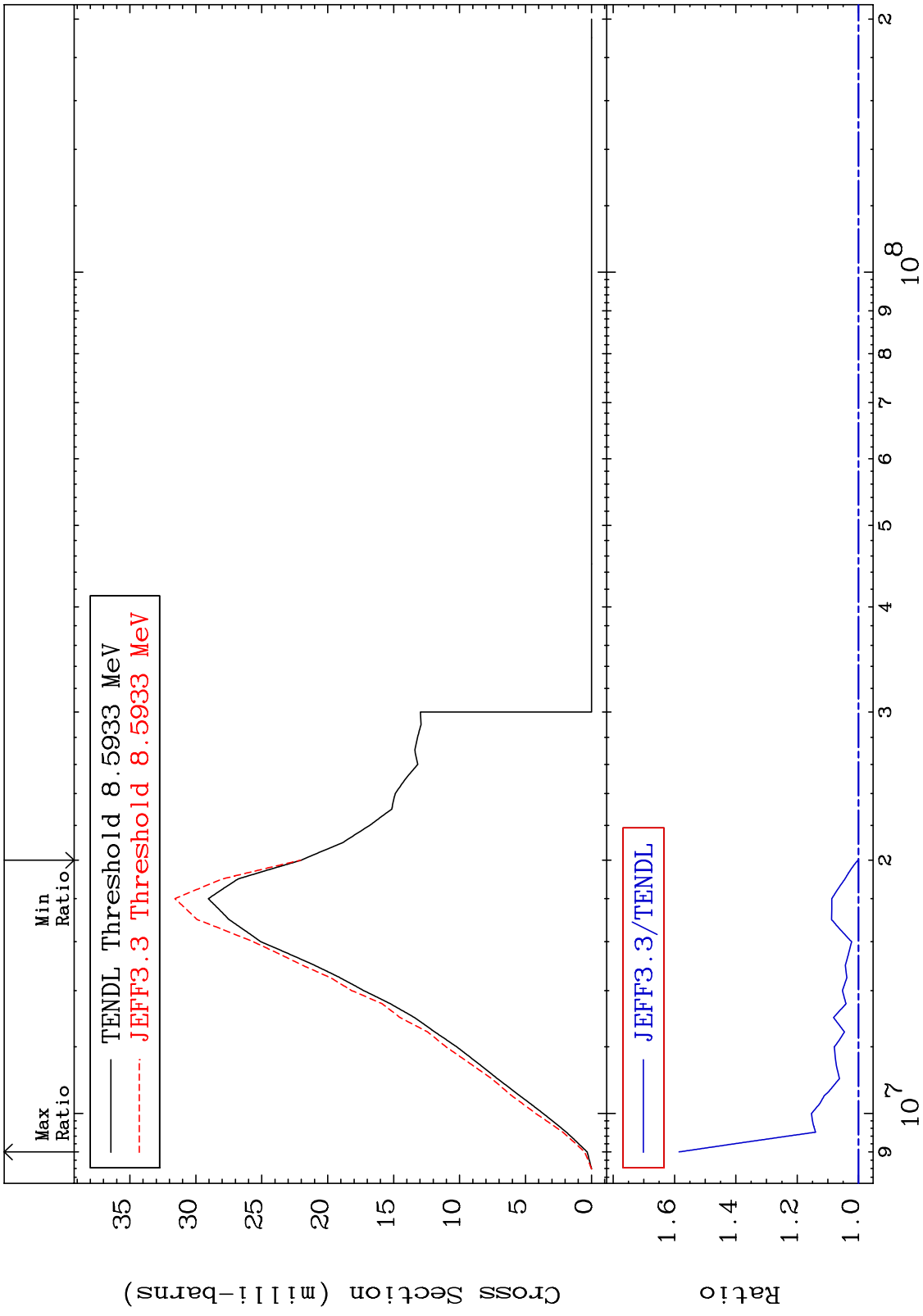


70

Incident Energy (eV)

72-Hf-179

MAT 7240 (n,2n): 72-Hf-178m10 72-Hf-179  
 Radionuclide Production Cross Section 0.230 To 58.52 %



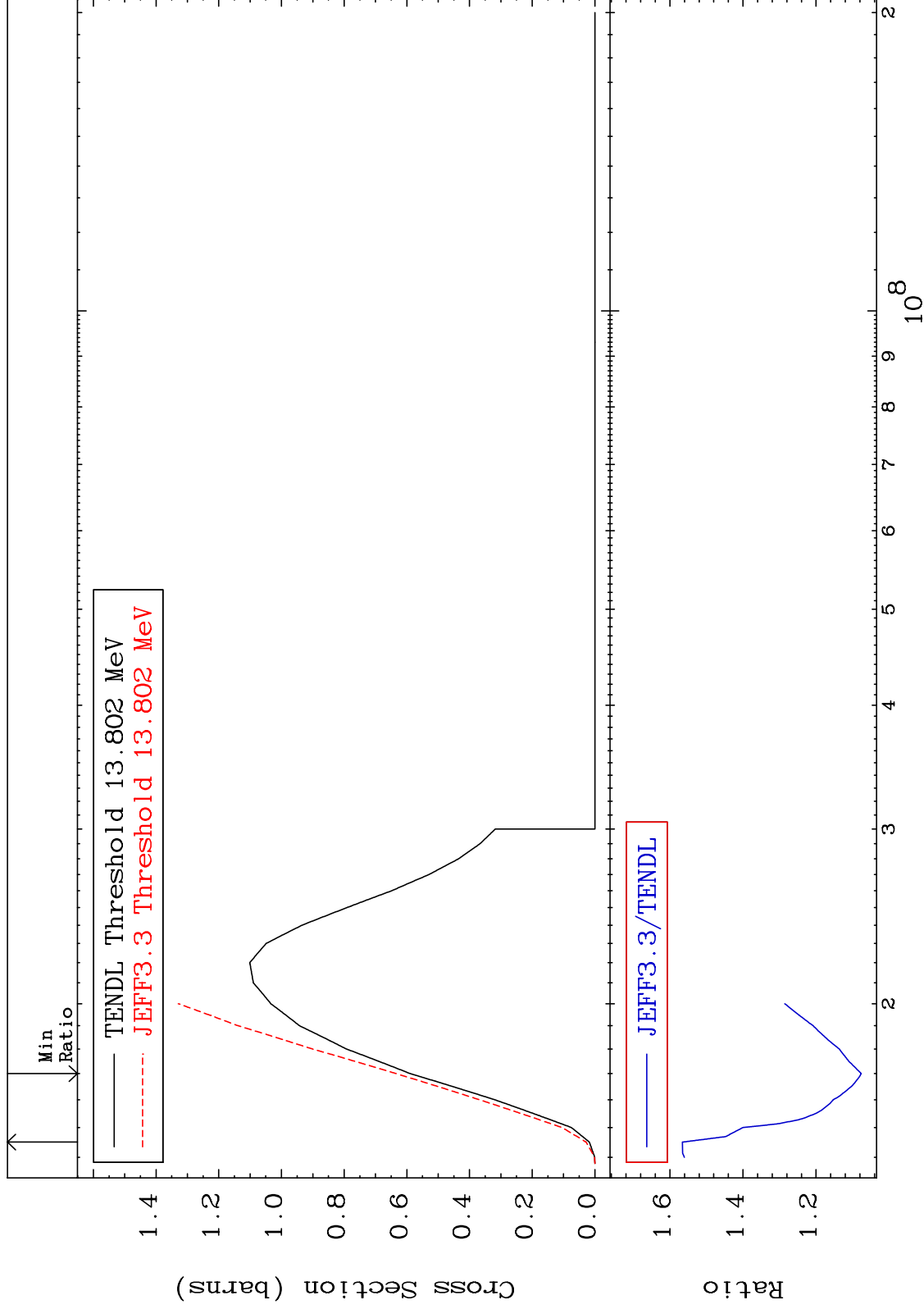


MAT 7240

(n,3n):72-Hf-177g

72-Hf-179

Radionuclide Production Cross Section 7.624 To 56.56 %

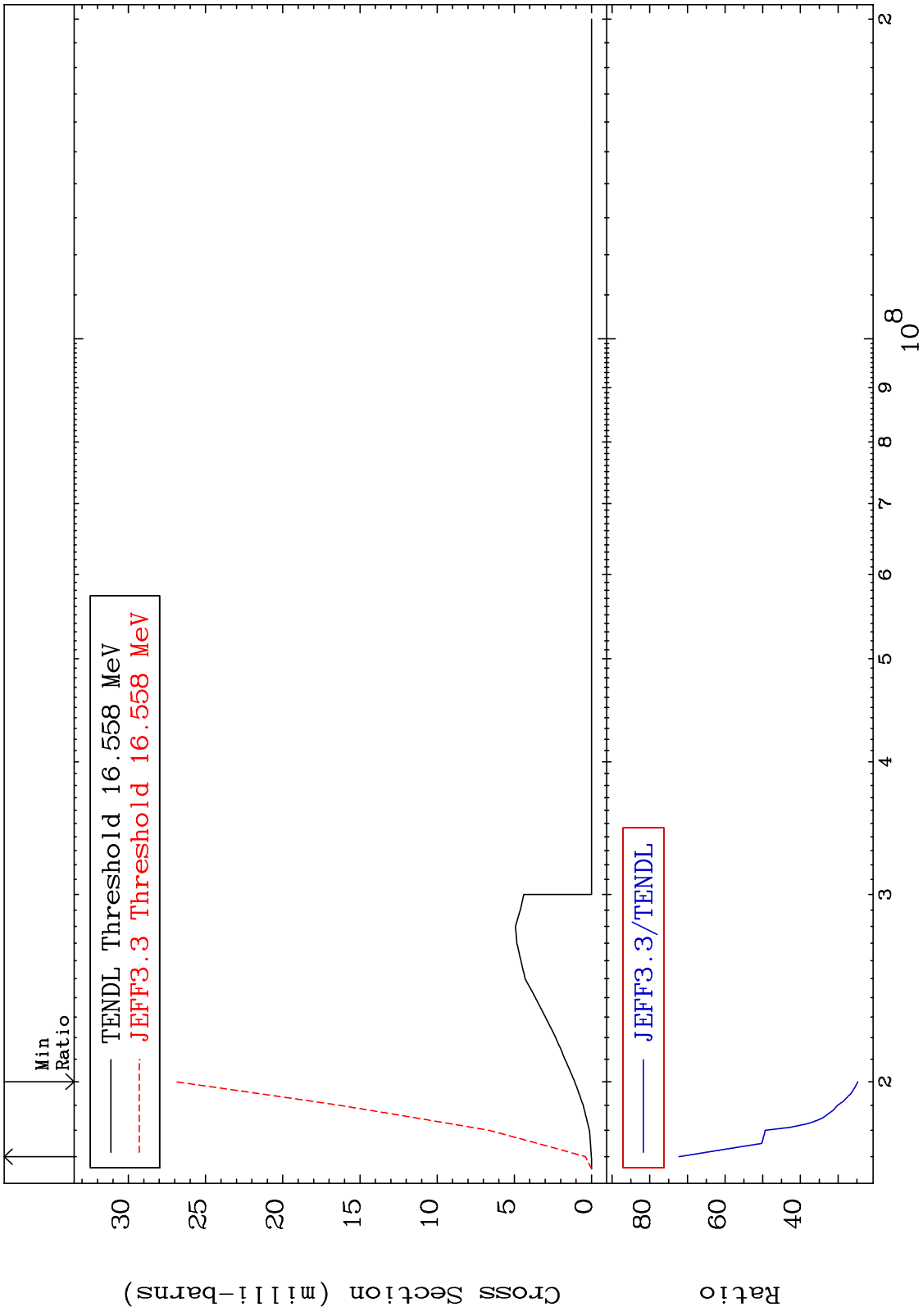


72

Incident Energy (eV)

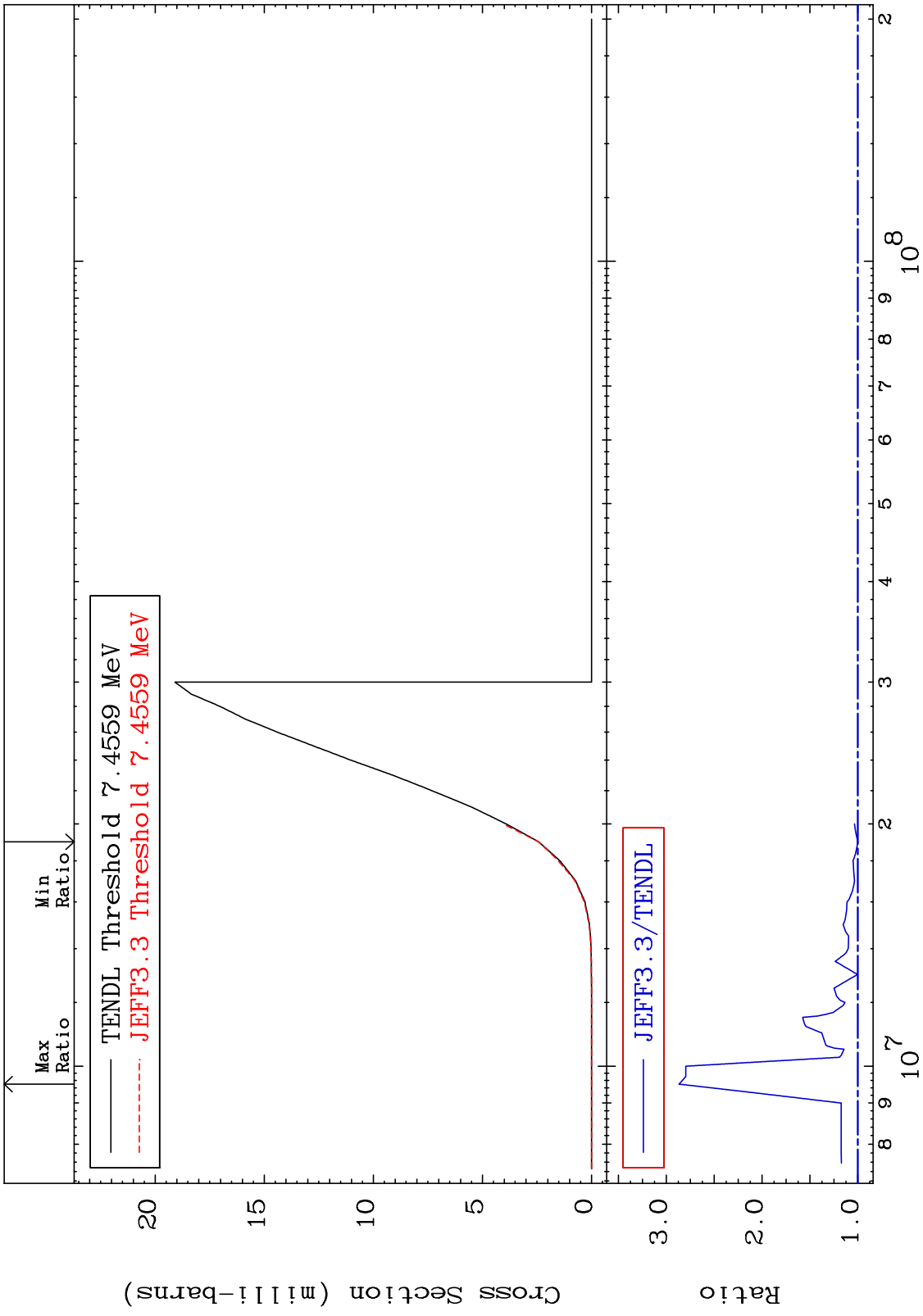
72-Hf-179

MAT 7240 (n,3n): 72-Hf-177m10 72-Hf-179  
 Radionuclide Production Cross Section 2375. To 7123. %



73 72-Hf-179

MAT 7240 (n, n') p: 71-Lu-178g 72-Hf-179  
 Radionuclide Production Cross Section 0.045 To 186.8 %

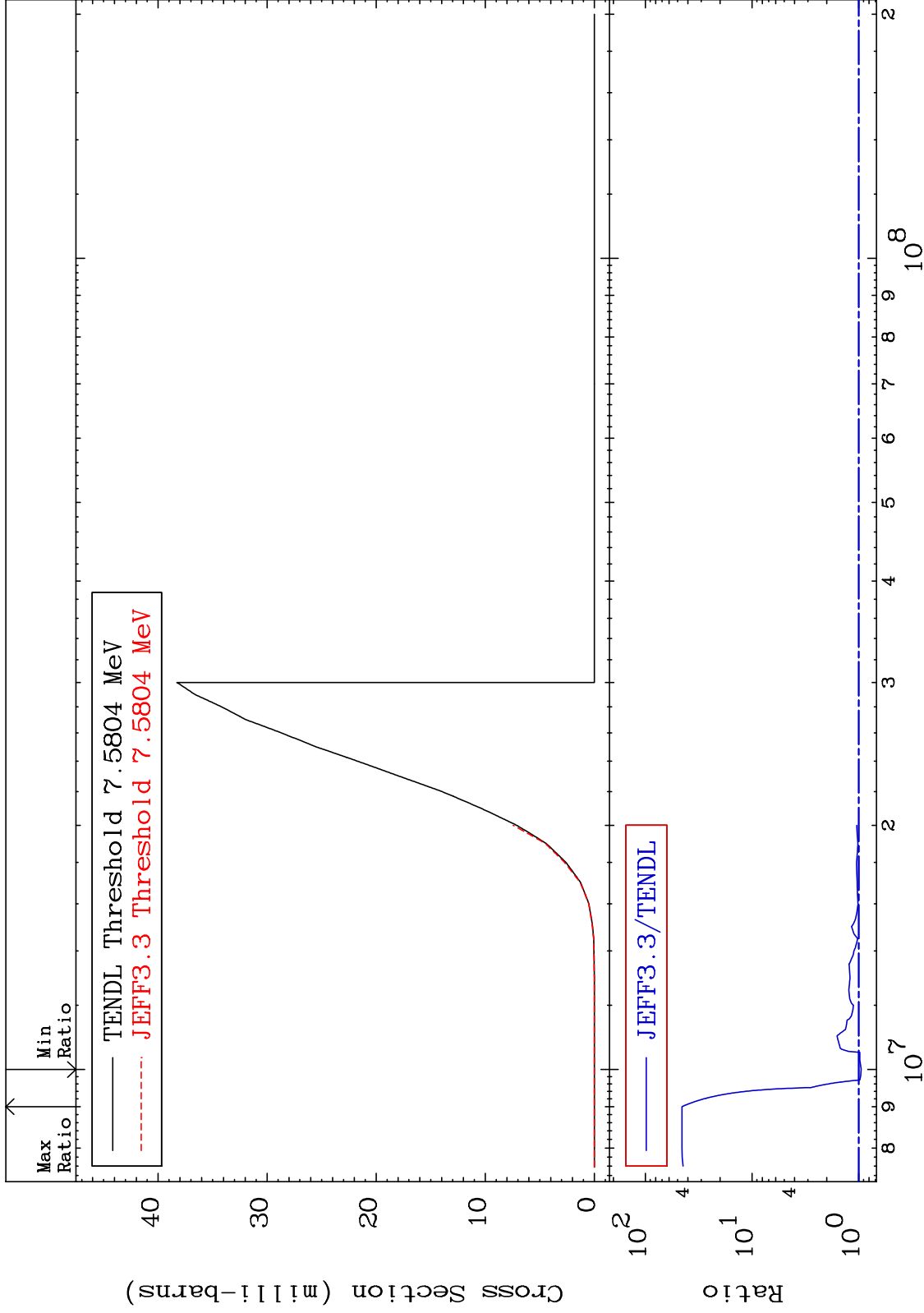


MAT 7240

(n,n') p:71-Lu-178m3

72-Hf-179

Radionuclide Production Cross Section -5.112 To 4436. %

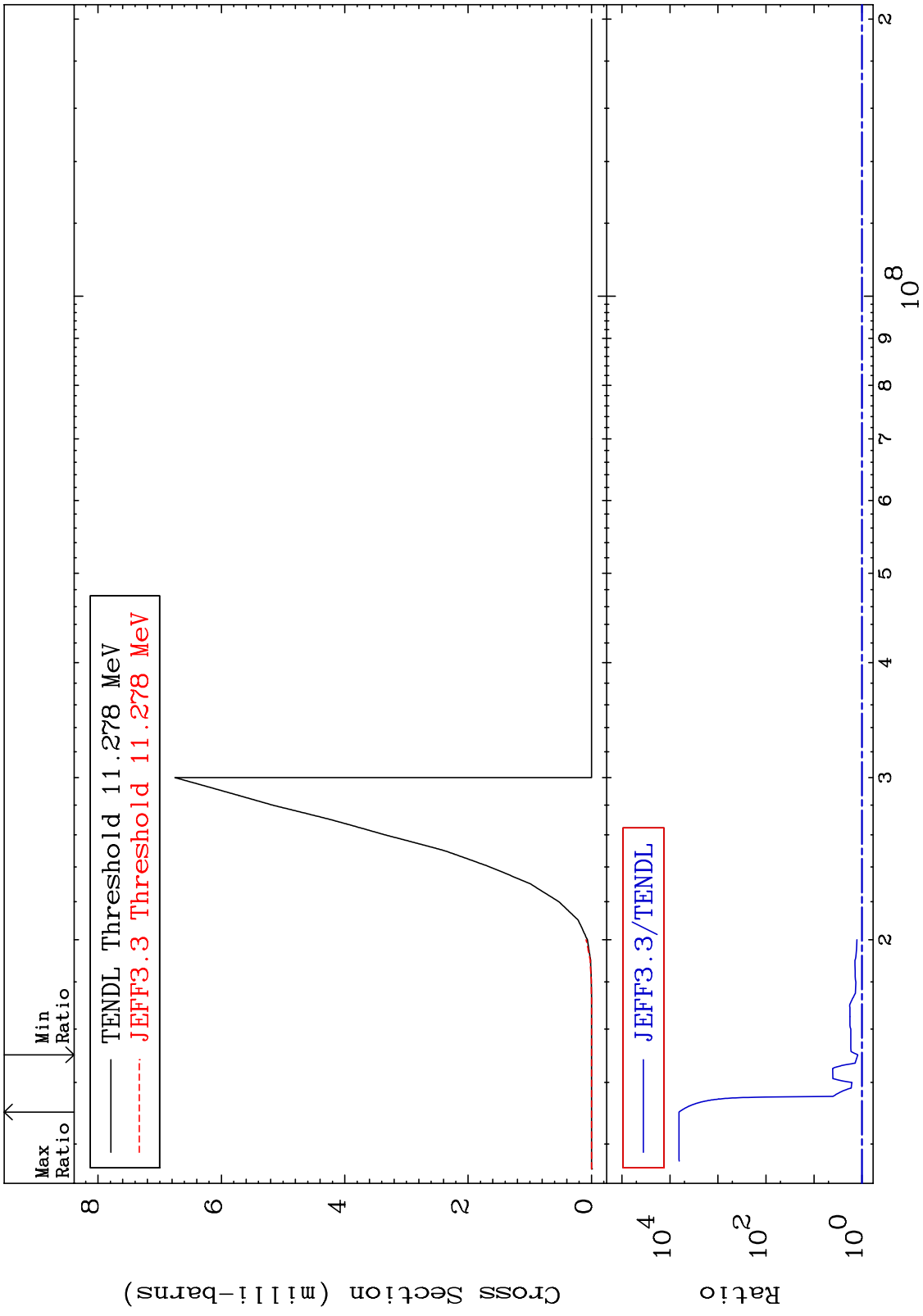


75

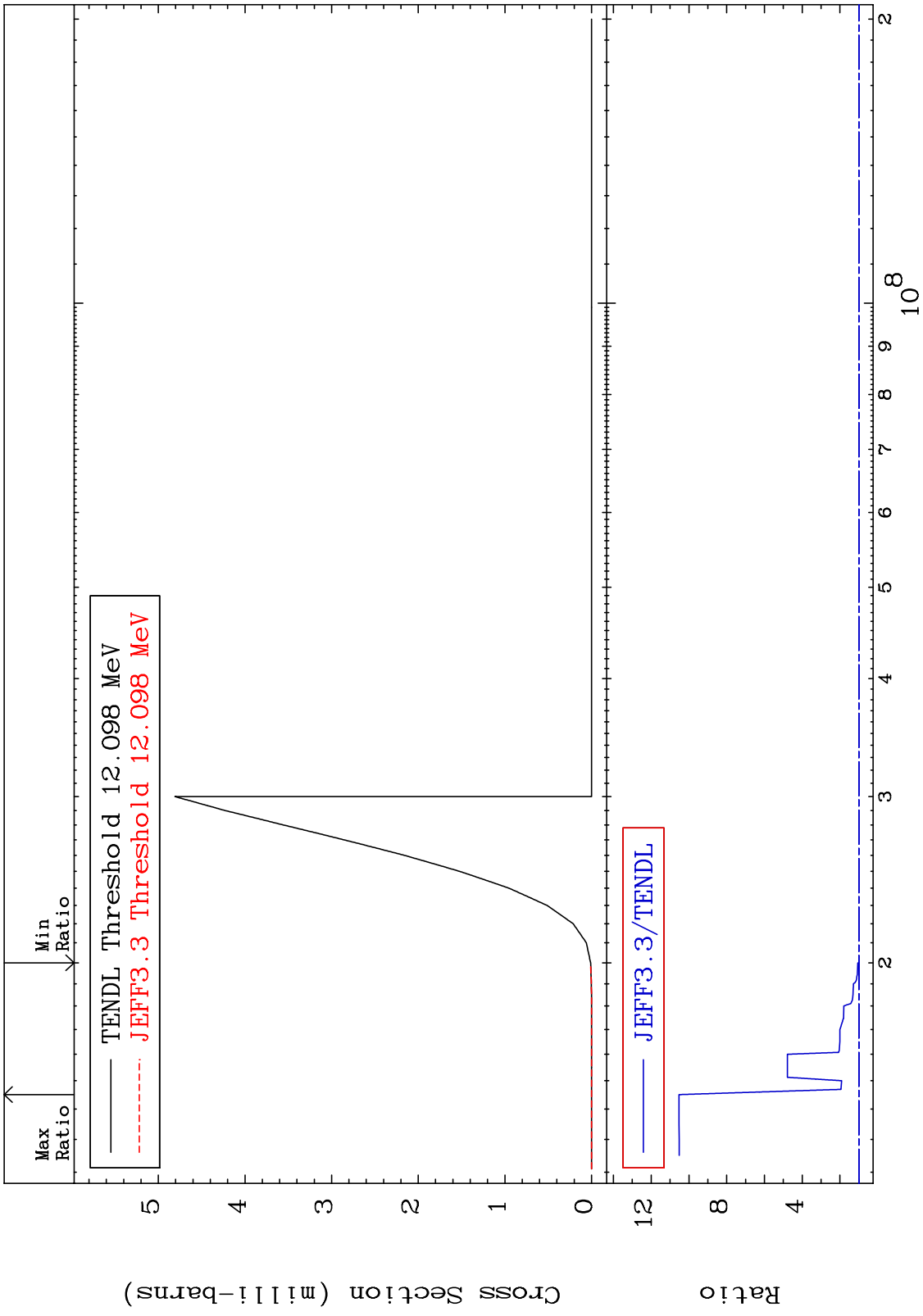
Incident Energy (eV)

72-Hf-179

MAT 7240 (n, n') d:71-Lu-177g 72-Hf-179  
 Radionuclide Production Cross Section 22.30 To 9999. %

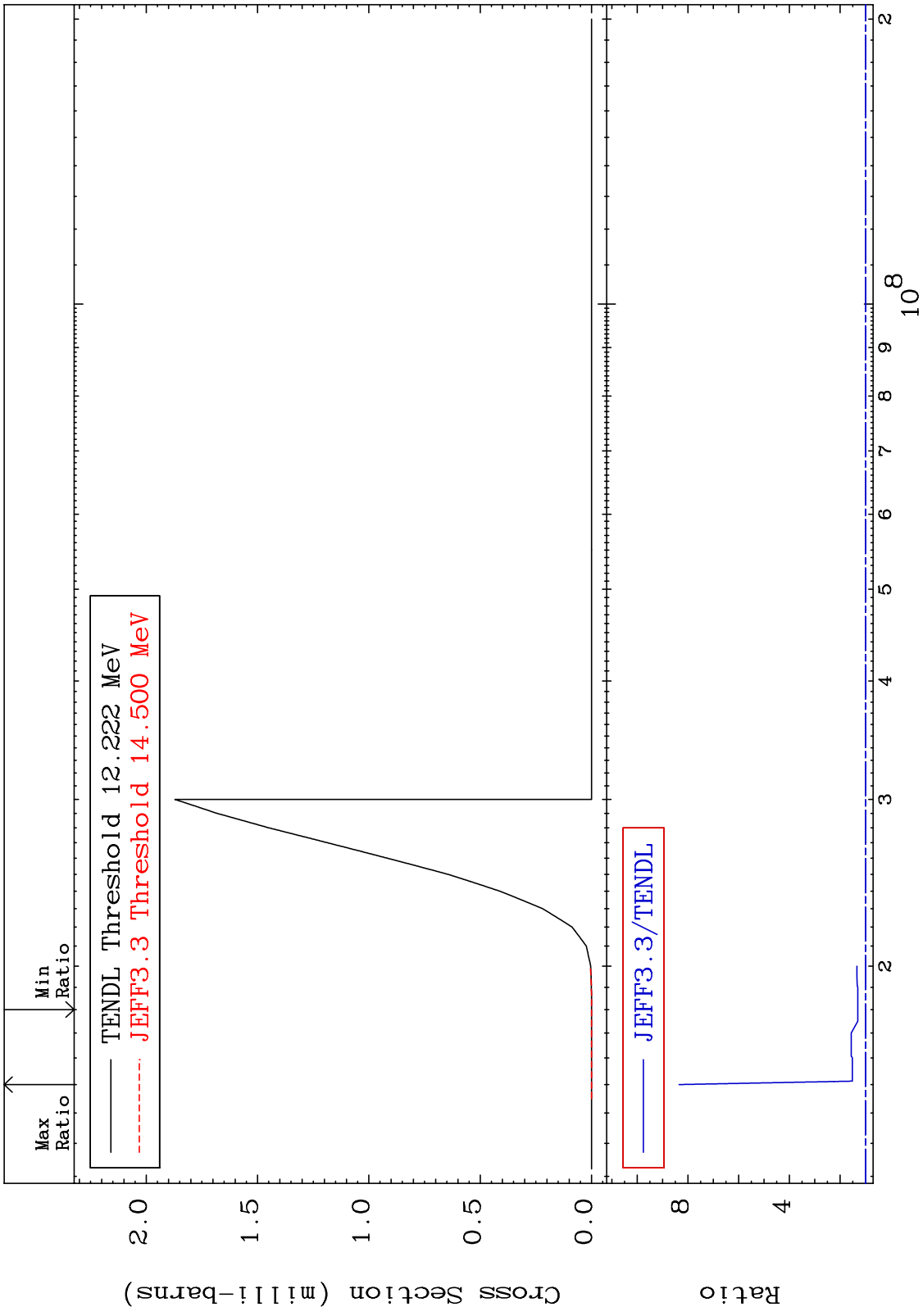


MAT 7240 (n,n') t:71-Lu-176g 72-Hf-179  
 Radionuclide Production Cross Section 5.370 To 952.4 %



77 72-Hf-179

MAT 7240 (n,n') t:71-Lu-176m1 72-Hf-179  
 Radionuclide Production Cross Section 30.31 To 735.3 %

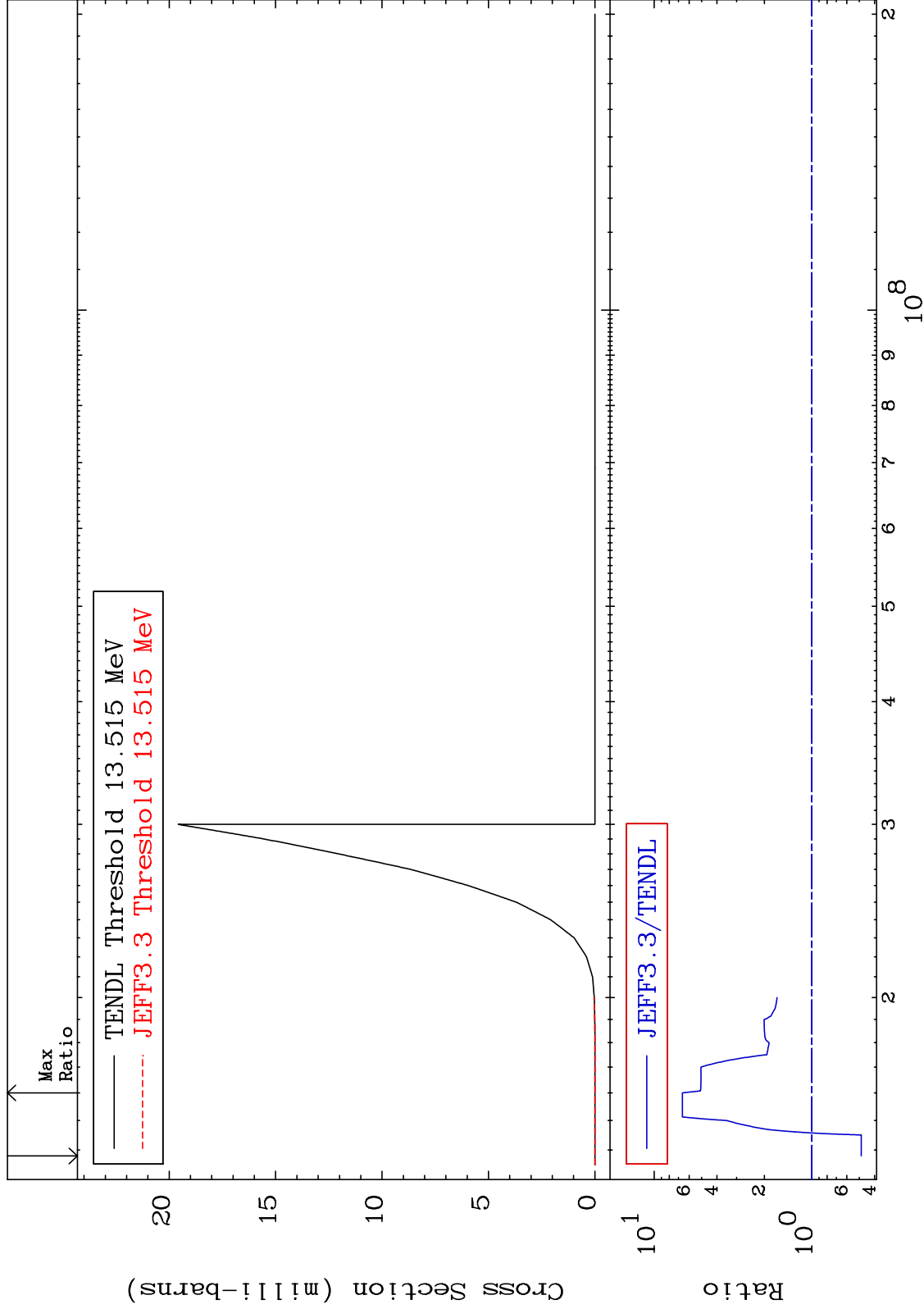


MAT 7240

(n,2n) p:71-Lu-177g

72-Hf-179

Radionuclide Production Cross Section -51.40 To 560.9 %



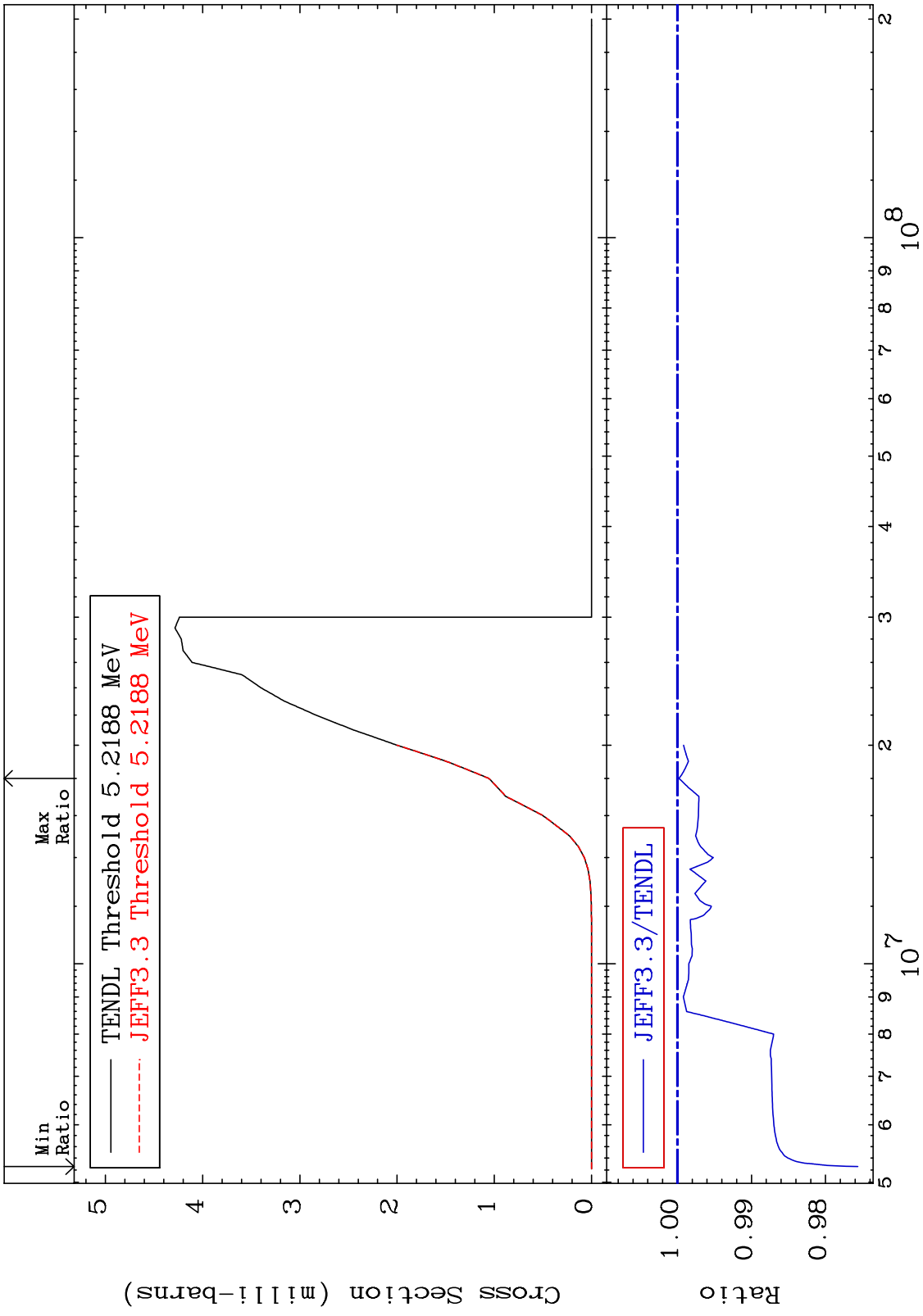
79

Incident Energy (eV)

72-Hf-179



MAT 7240 (n,d):71-Lu-178g 72-Hf-179  
 Radionuclide Production Cross Section -2.436 To -0.022%

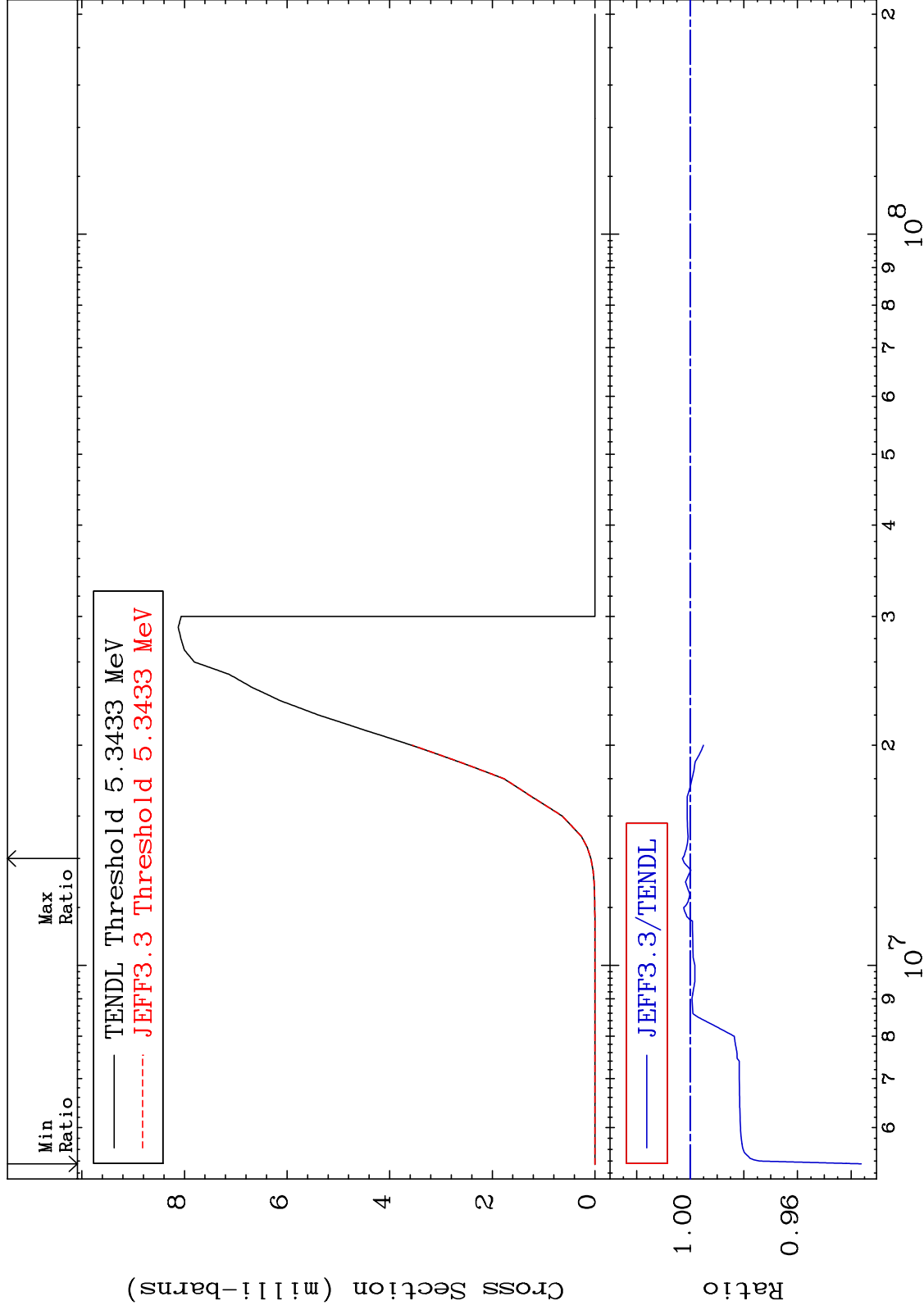


MAT 7240

(n, d) : 71-Lu-178m3

72-Hf-179

Radionuclide Production Cross Section -6.380 To 0.292 %

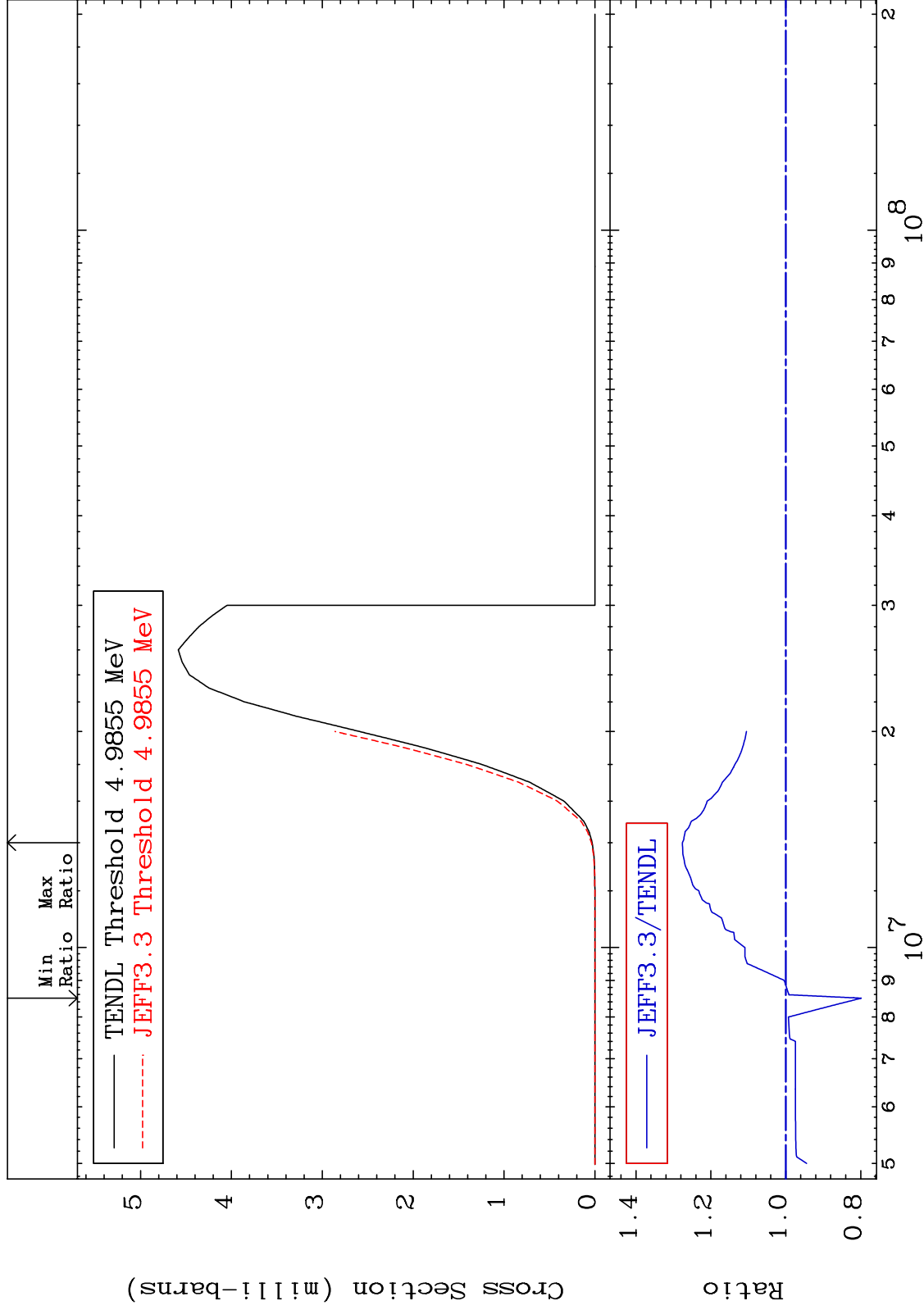


MAT 7240

(n, t) : 71-Lu-177g

72-Hf-179

Radionuclide Production Cross Section -20.16 To 27.59 %



MAT 7240 (n, He-3) : 70-Yb-177g 72-Hf-179  
 Radionuclide Production Cross Section -5.730 To 9.508 %

