

Program Complot  
(Version 2018-1)

by

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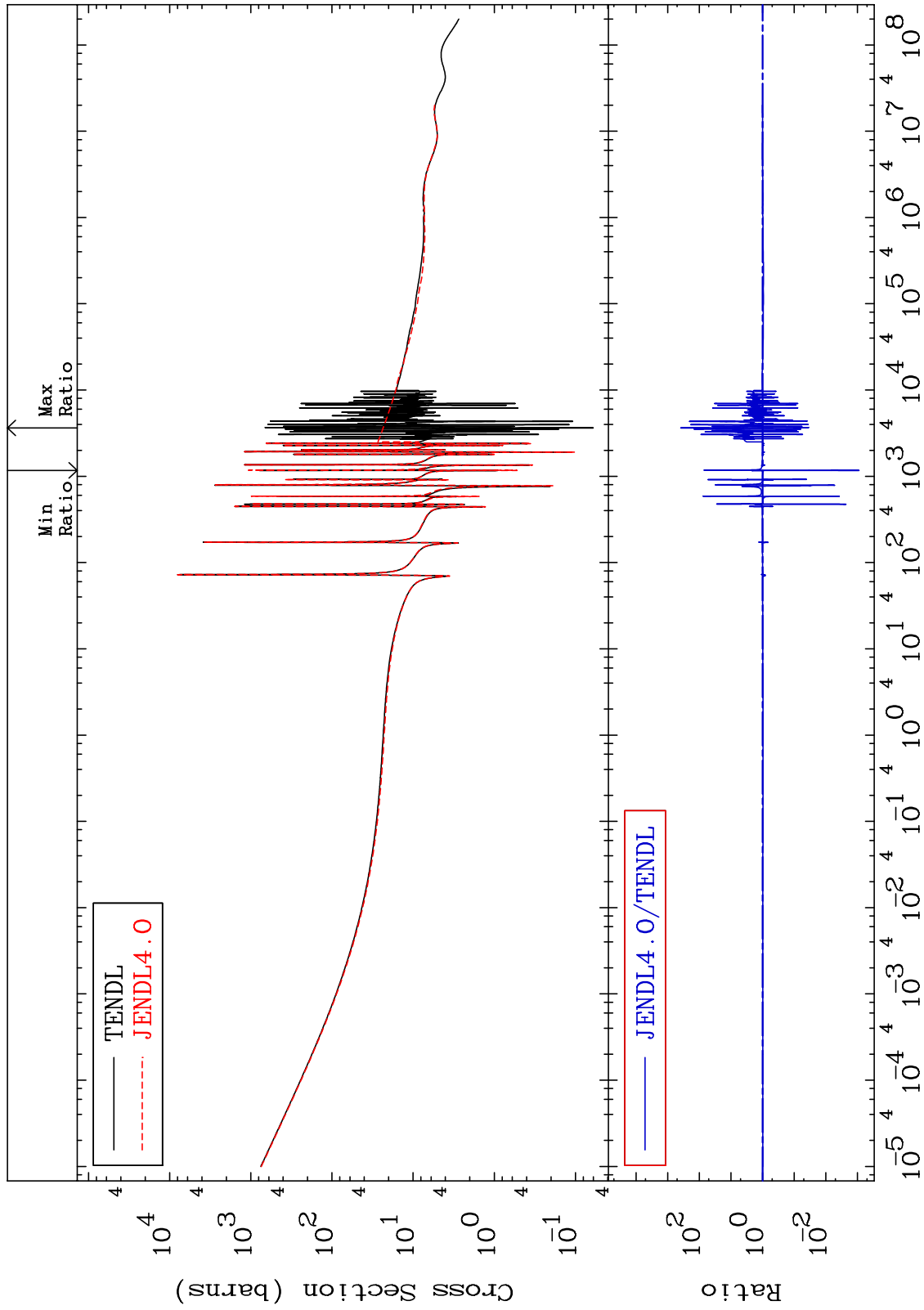
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Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 7243 Total Cross Section 72-Hf-180 -99.91 To 9999. %

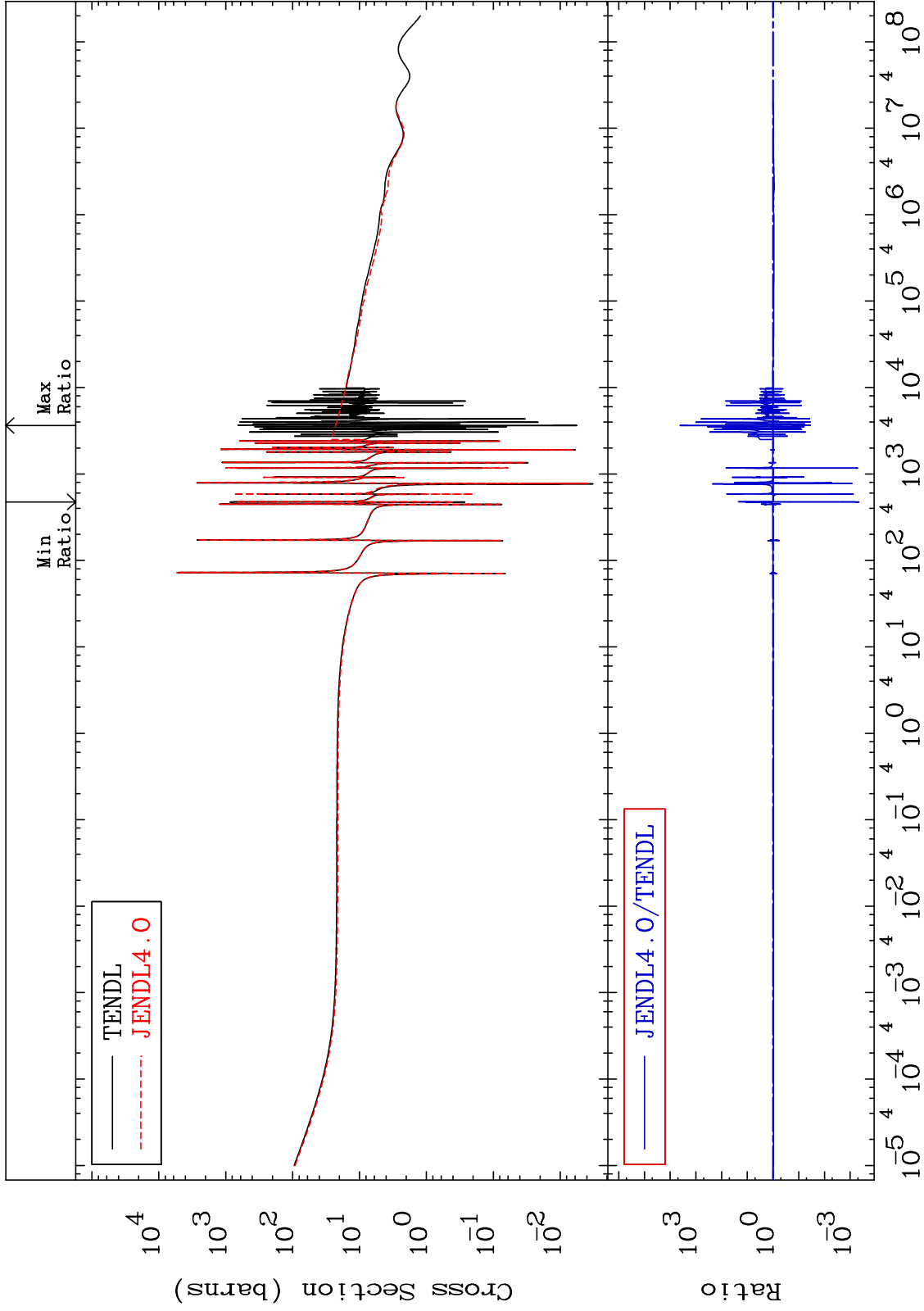


1 Incident Energy (eV) 72-Hf-180

MAT 7243

Elastic  
Cross Section

72-Hf-180  
-99.95 To 9999. %

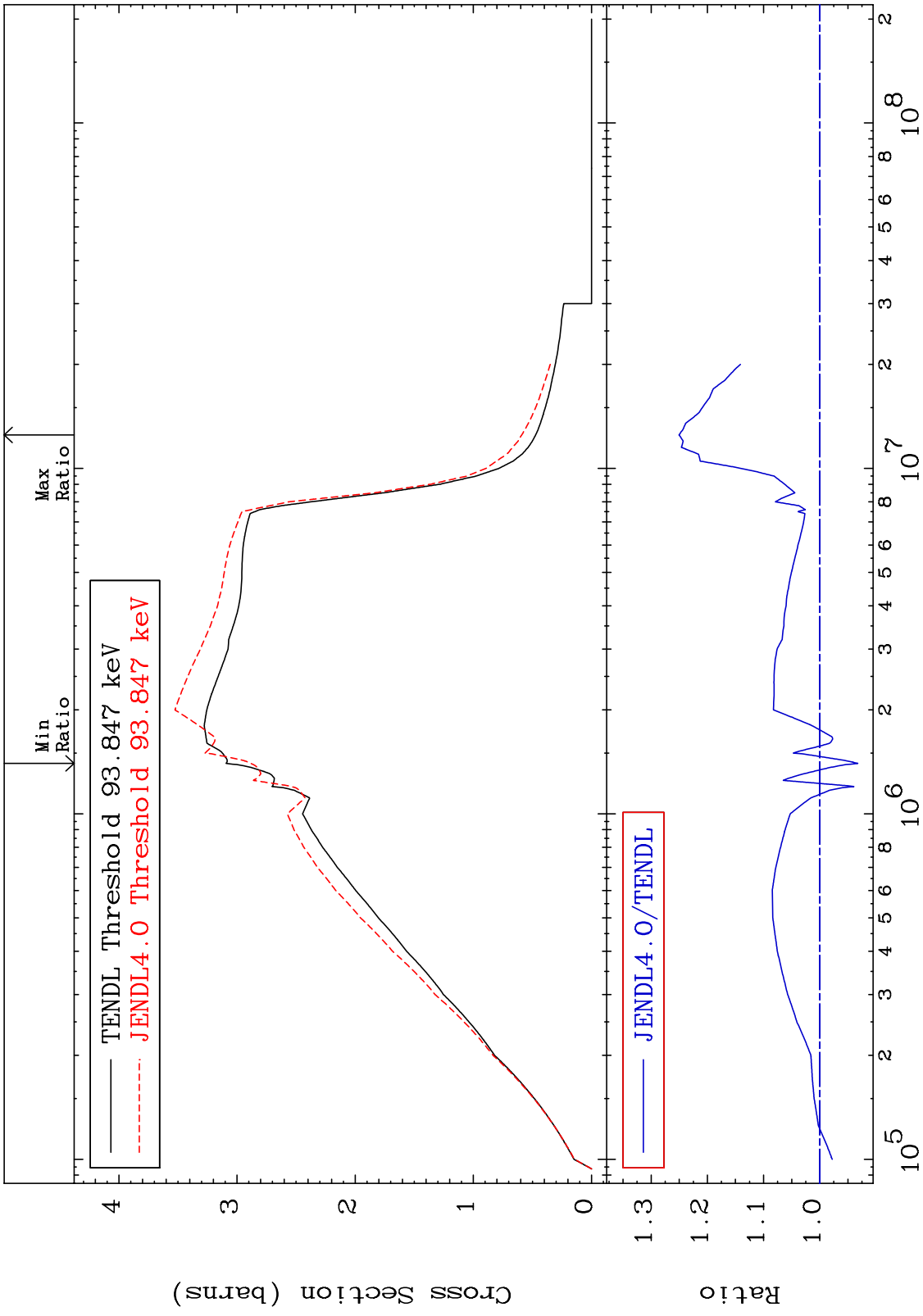


2

Incident Energy (eV)

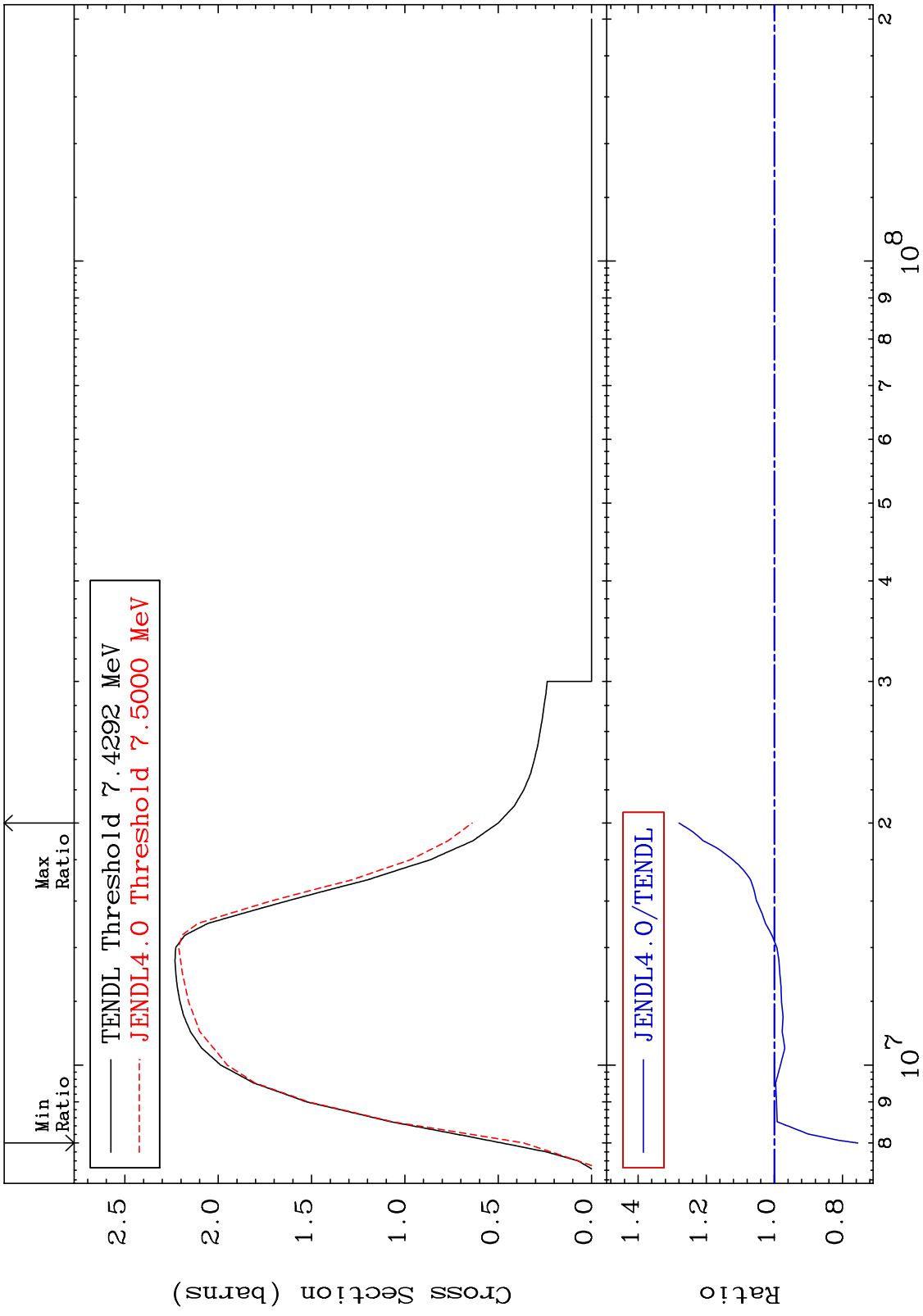
72-Hf-180

MAT 7243 Inelastic Cross Section 72-Hf-180 -6.768 To 25.04 %

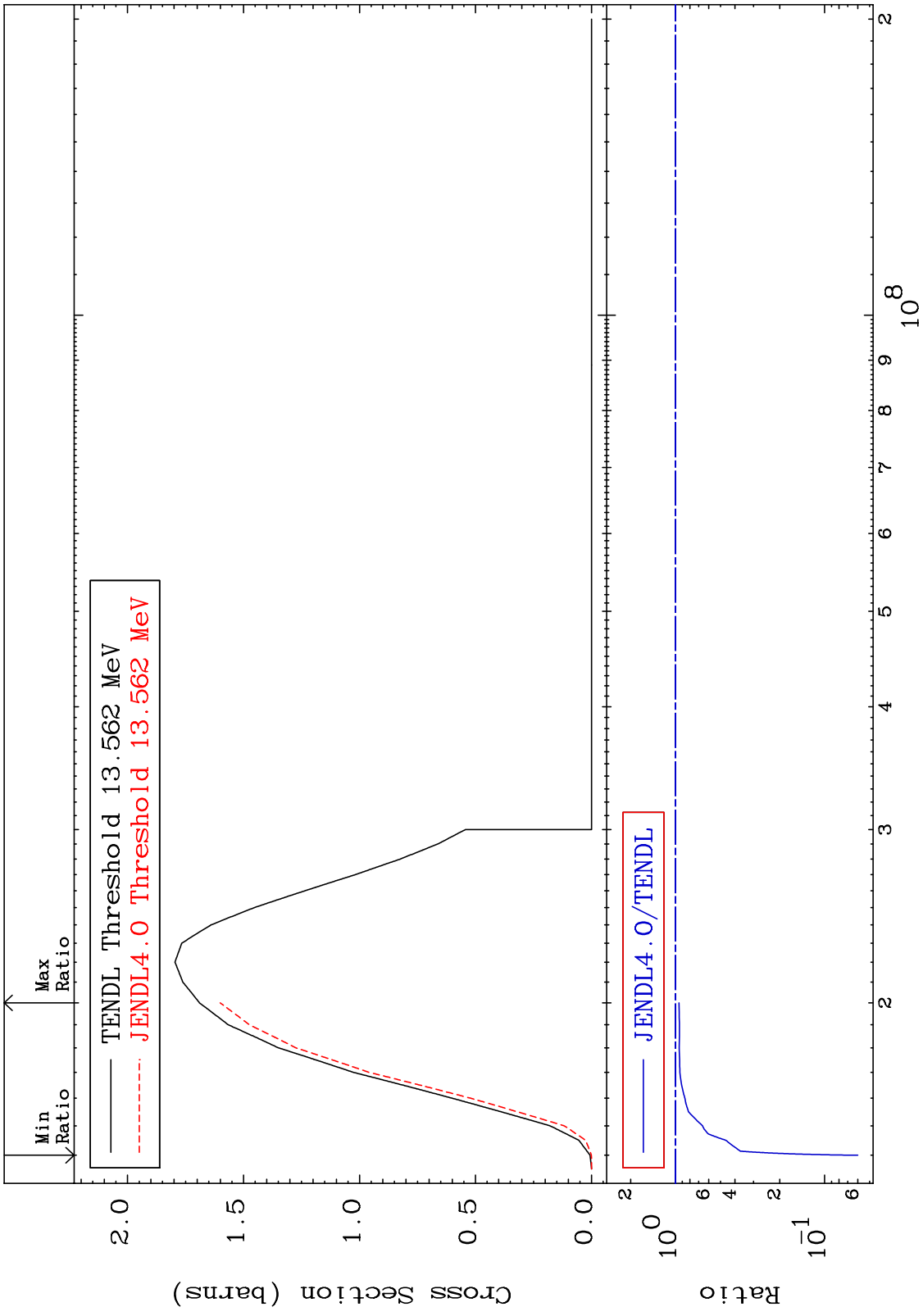


72-Hf-180

MAT 7243 (n,2n) 72-Hf-180  
 Cross Section -24.49 To 27.98 %



MAT 7243 (n,3n) 72-Hf-180  
 Cross Section -94.01 To -5.283%



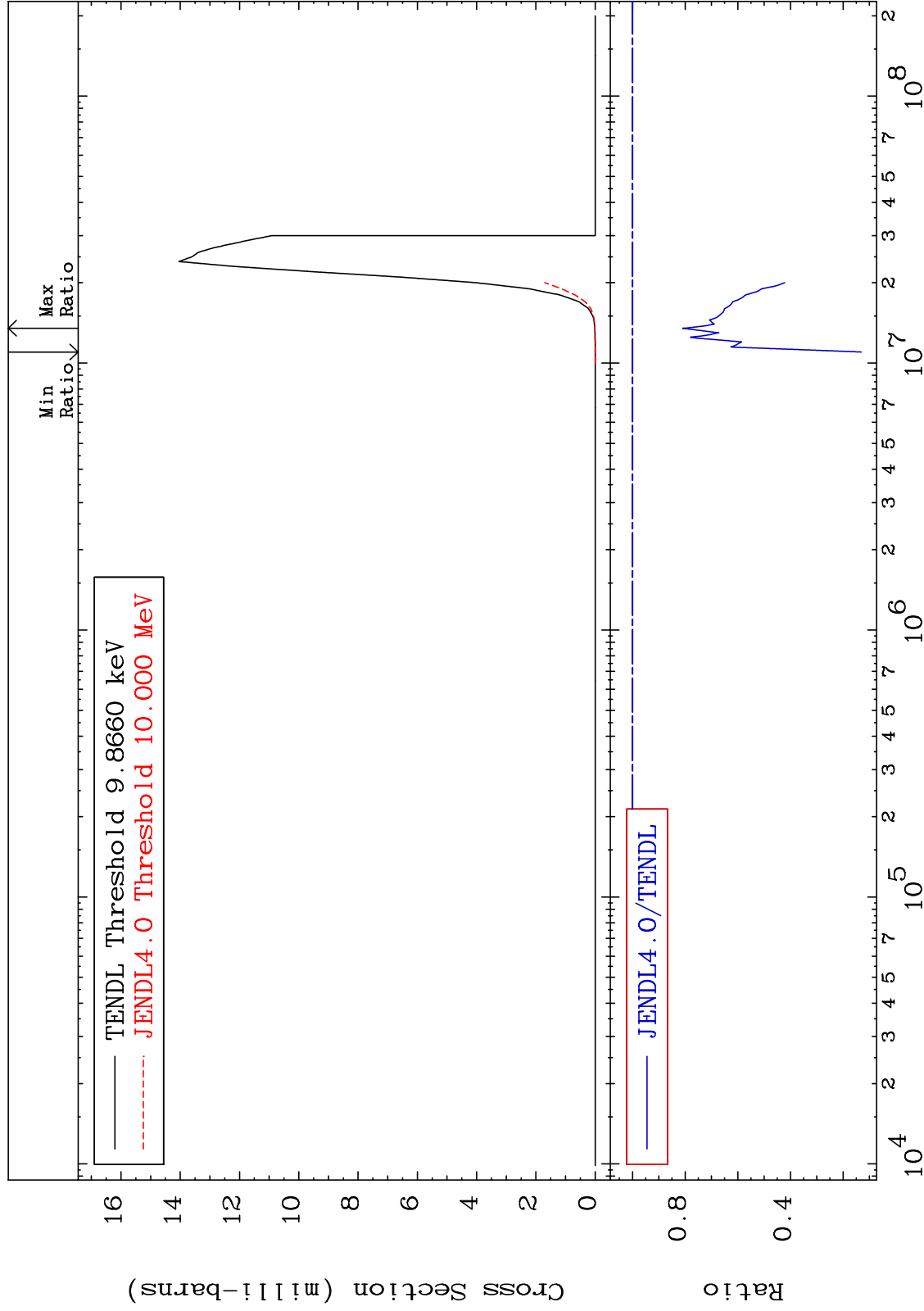
MAT 7243

(n, n')  $\alpha$

Cross Section

72-Hf-180

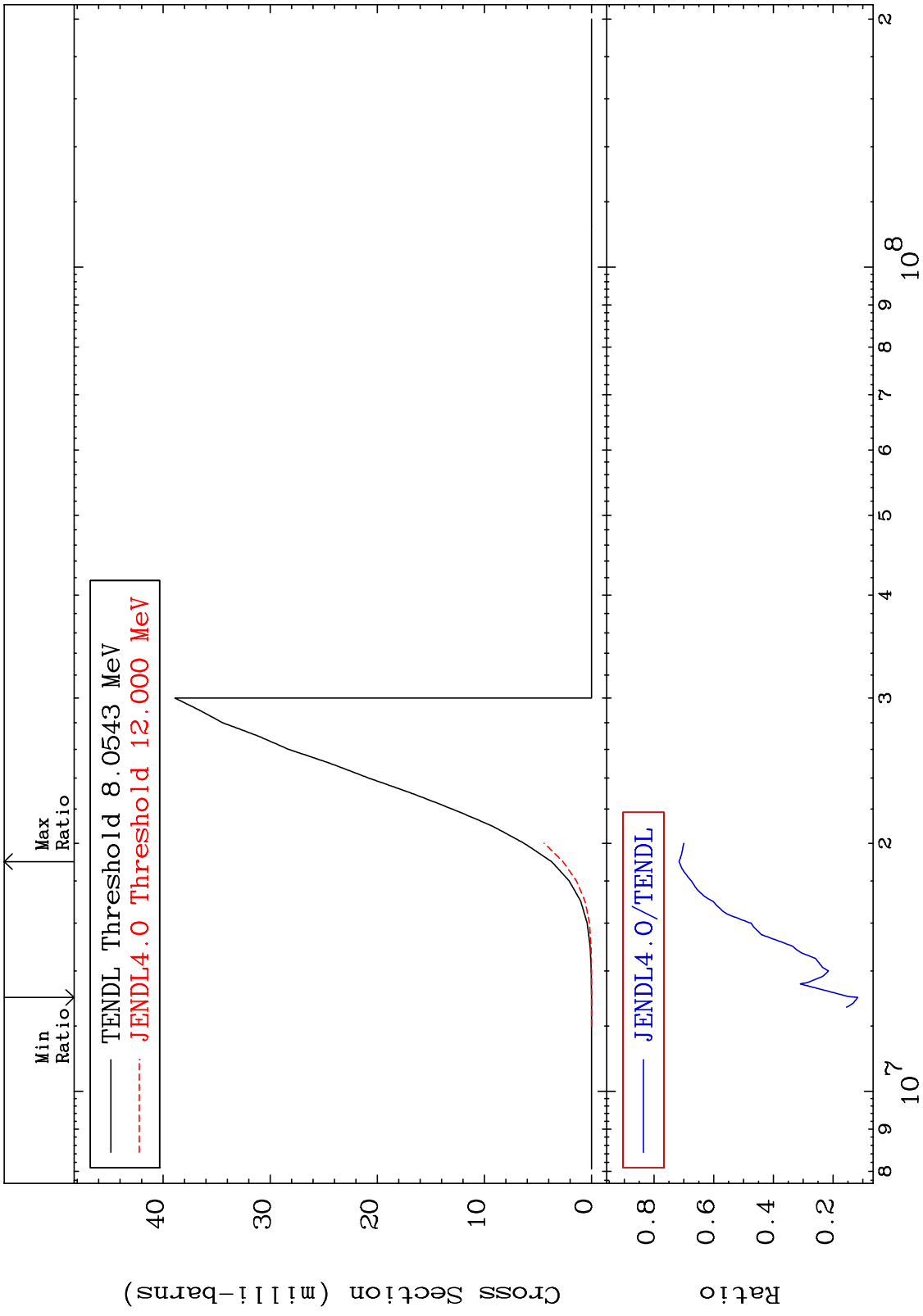
-86.94 To -19.07%



Incident Energy (eV)

72-Hf-180

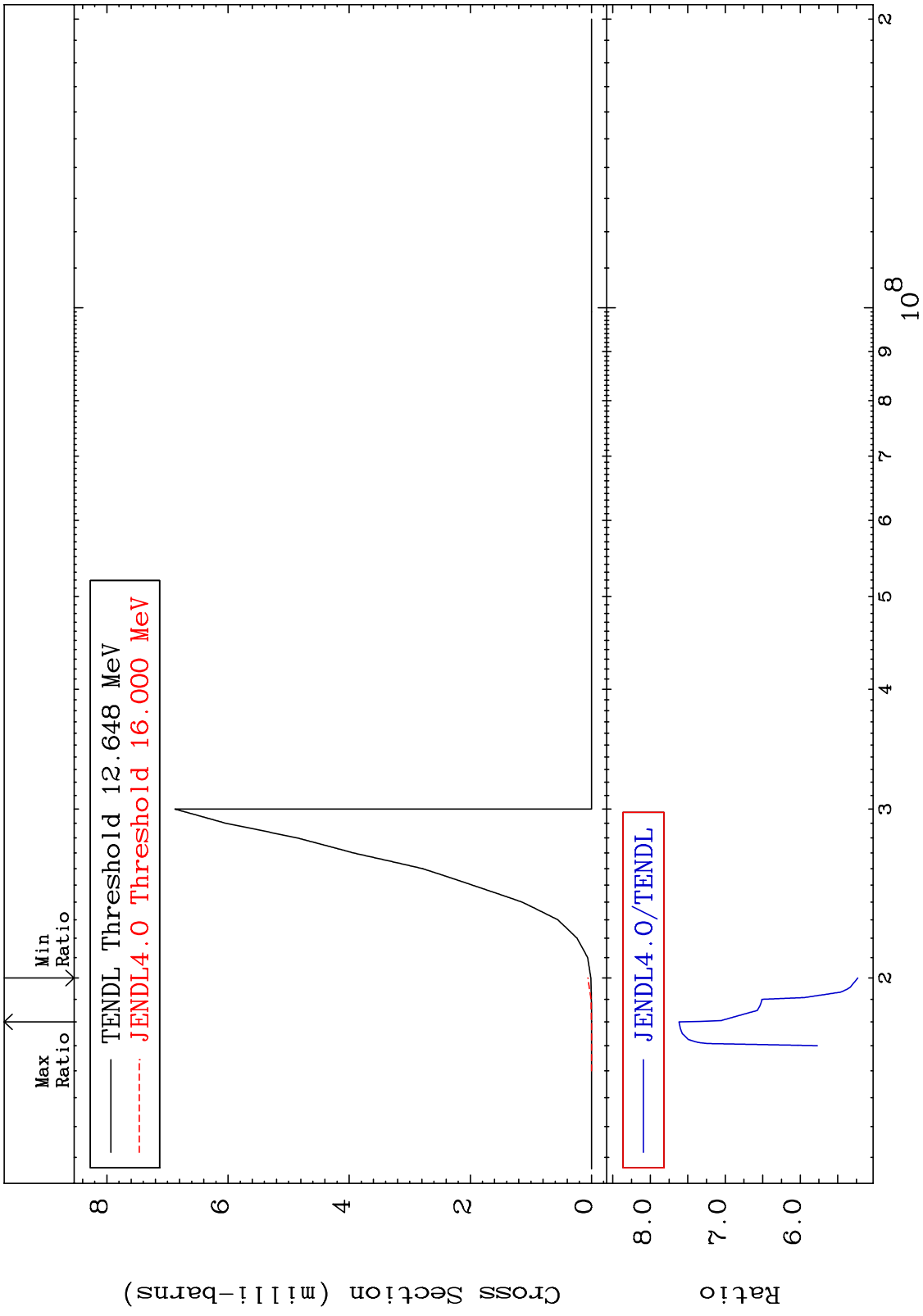
MAT 7243  $(n, n')$  p 72-Hf-180  
 Cross Section -88.32 To -28.38%



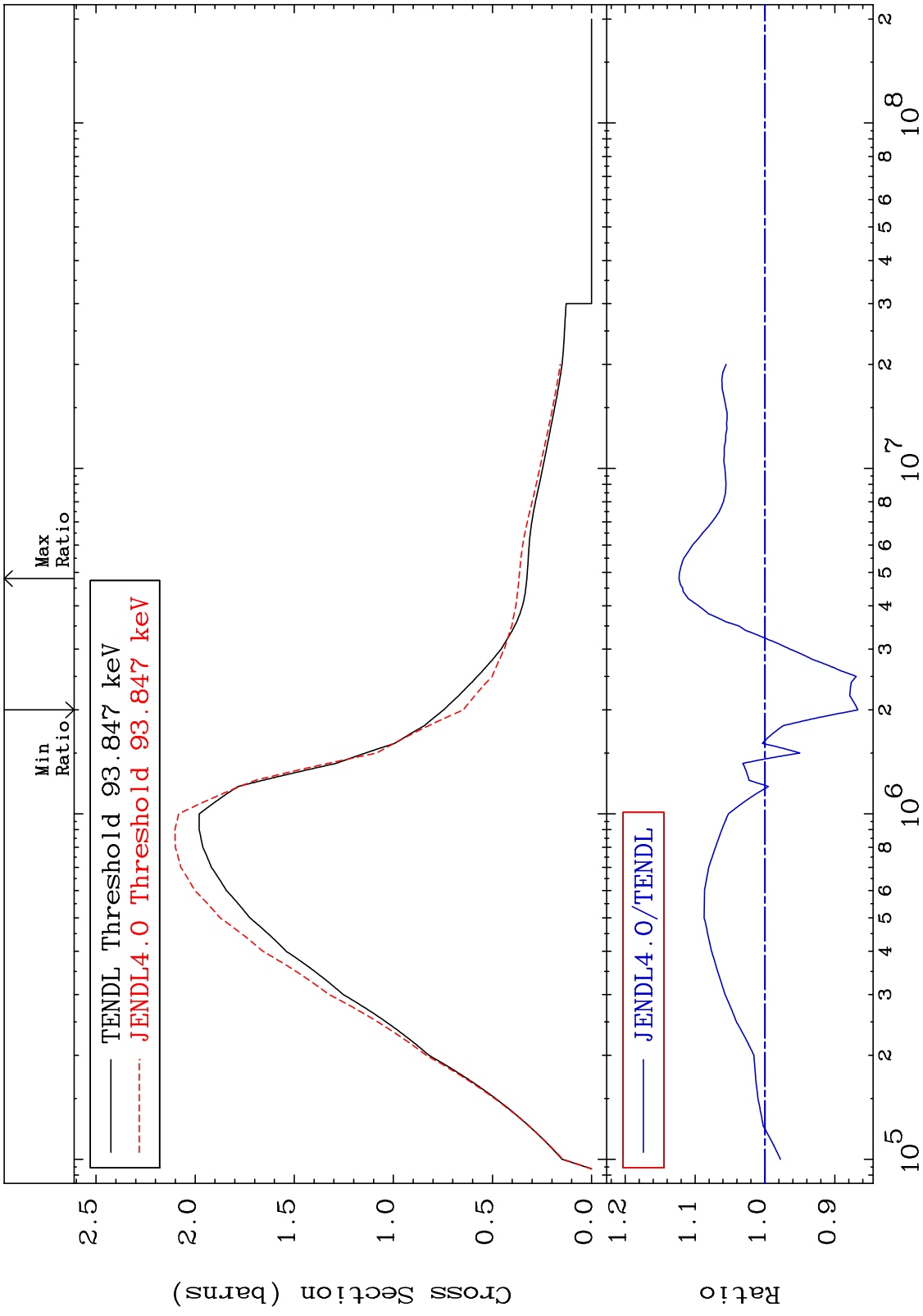
72-Hf-180



MAT 7243 (n,n') d 72-Hf-180  
 Cross Section 423.2 To 661.6 %

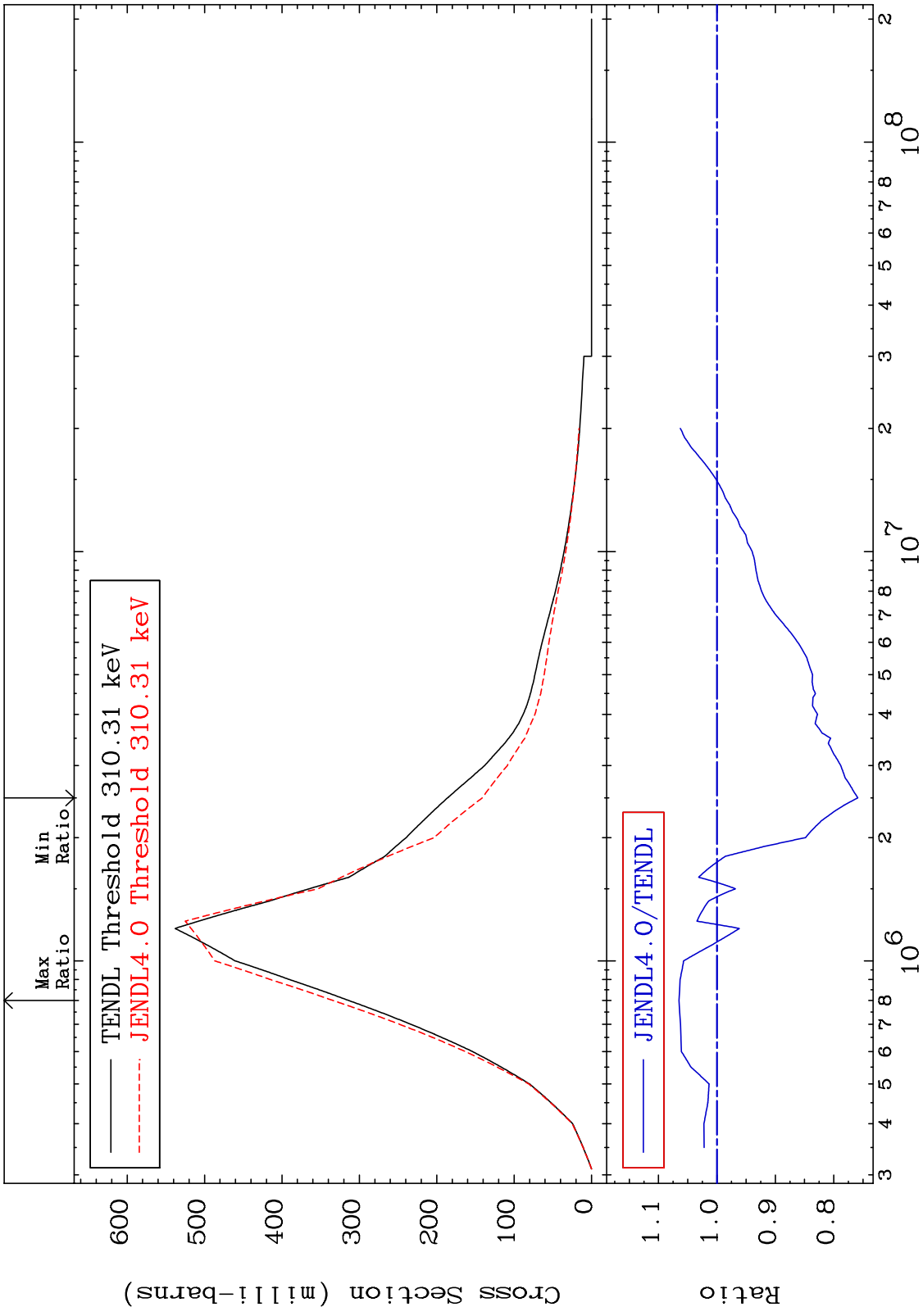


MAT 7243 MT= 51 (n,n') Level Cross Section -13.28 To 12.29 % 72-Hf-180



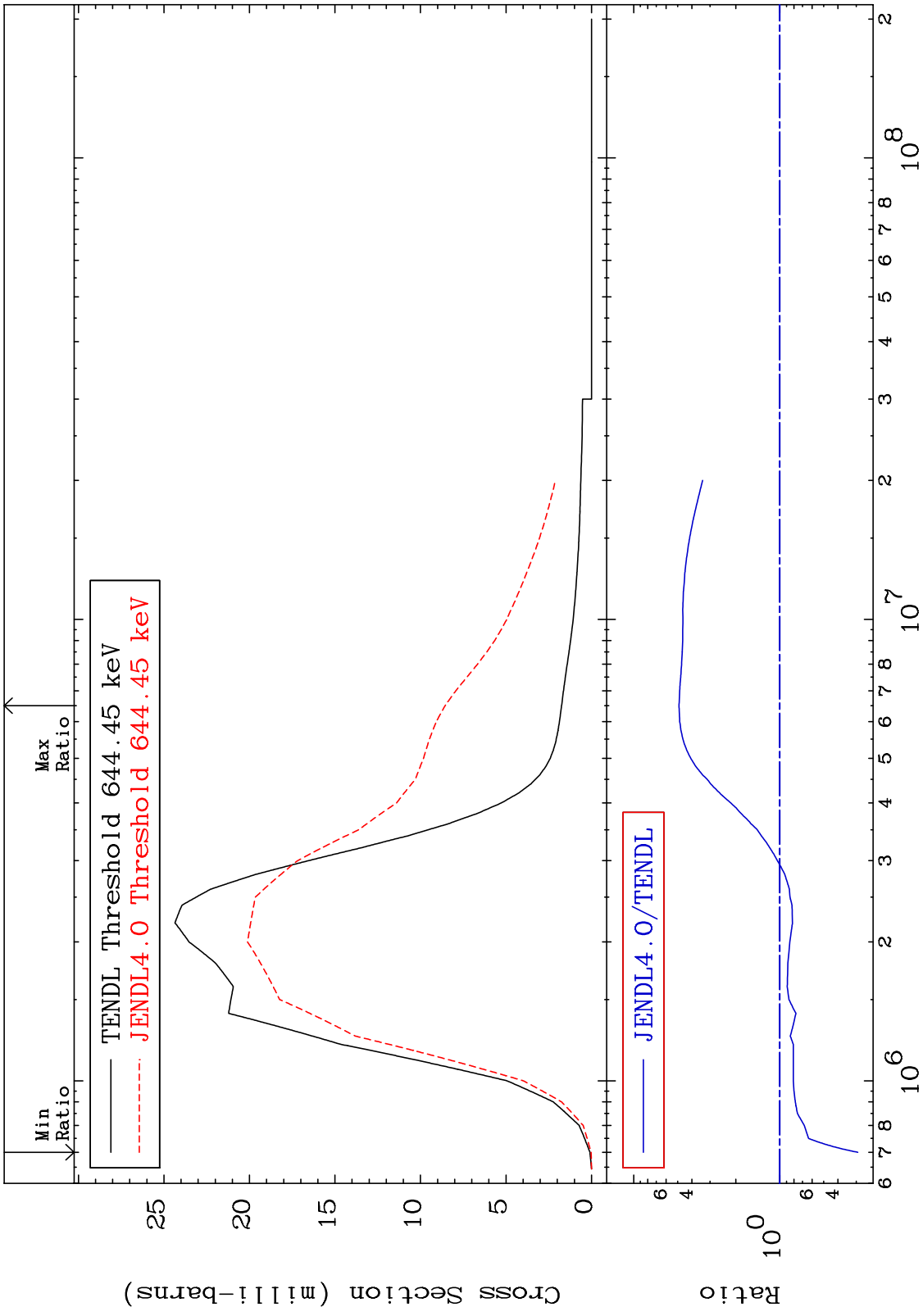
72-Hf-180

MAT 7243 MT= 52 (n,n') Level Cross Section 72-Hf-180  
 -24.12 To 6.483 %

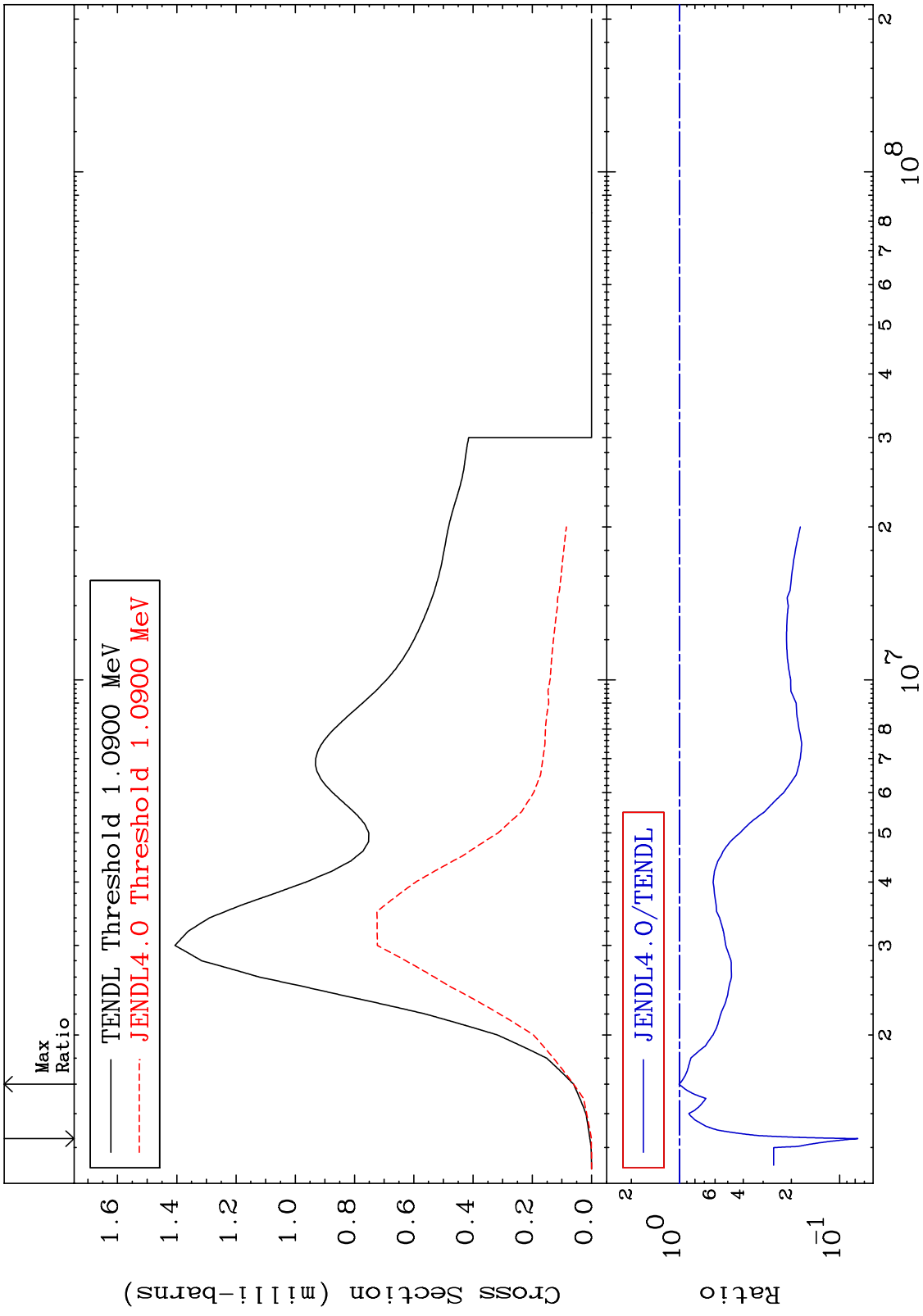


10 Incident Energy (eV) 72-Hf-180

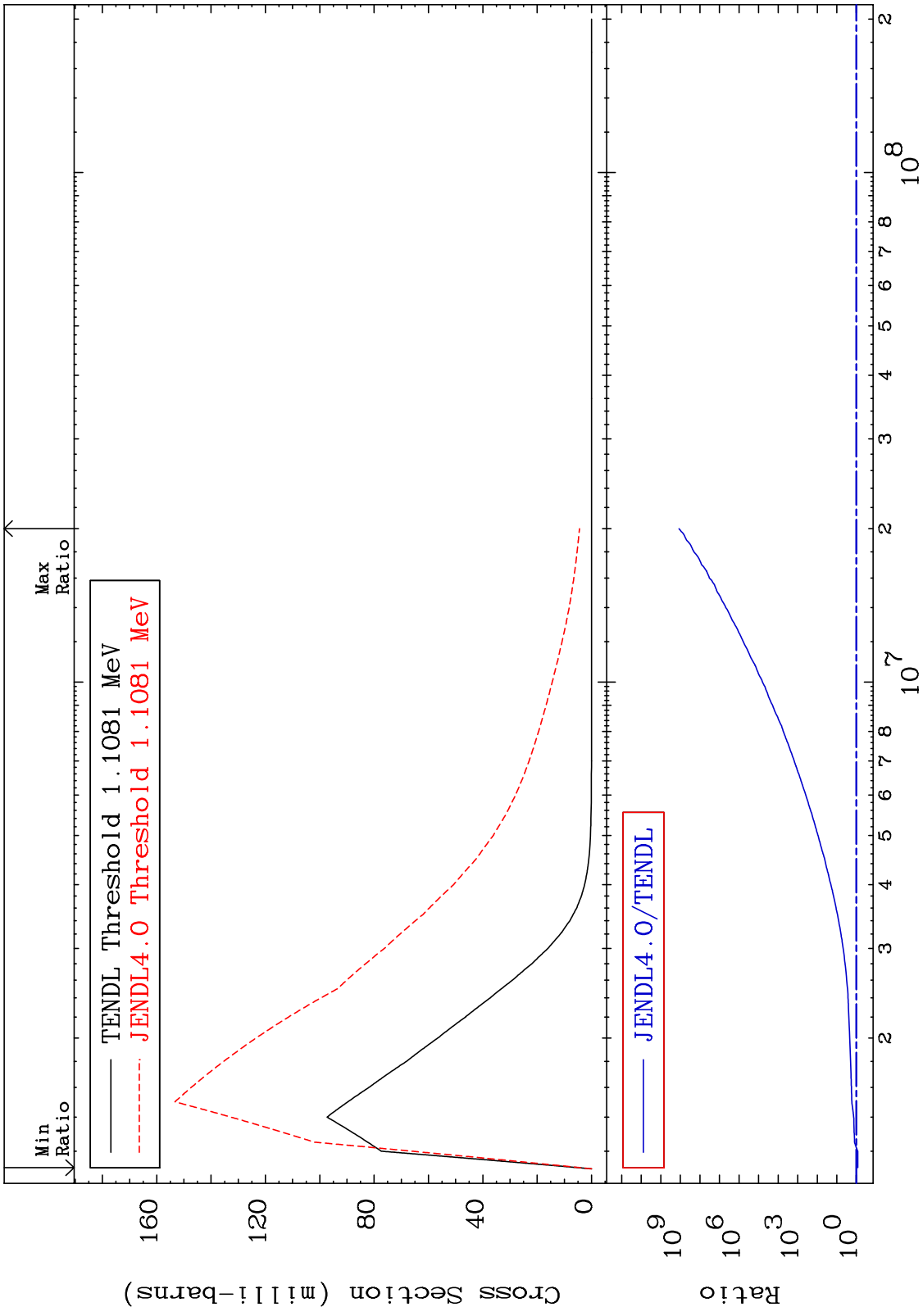
MAT 7243 MT= 53 (n,n') Level Cross Section 72-Hf-180  
 -70.77 To 388.9 %



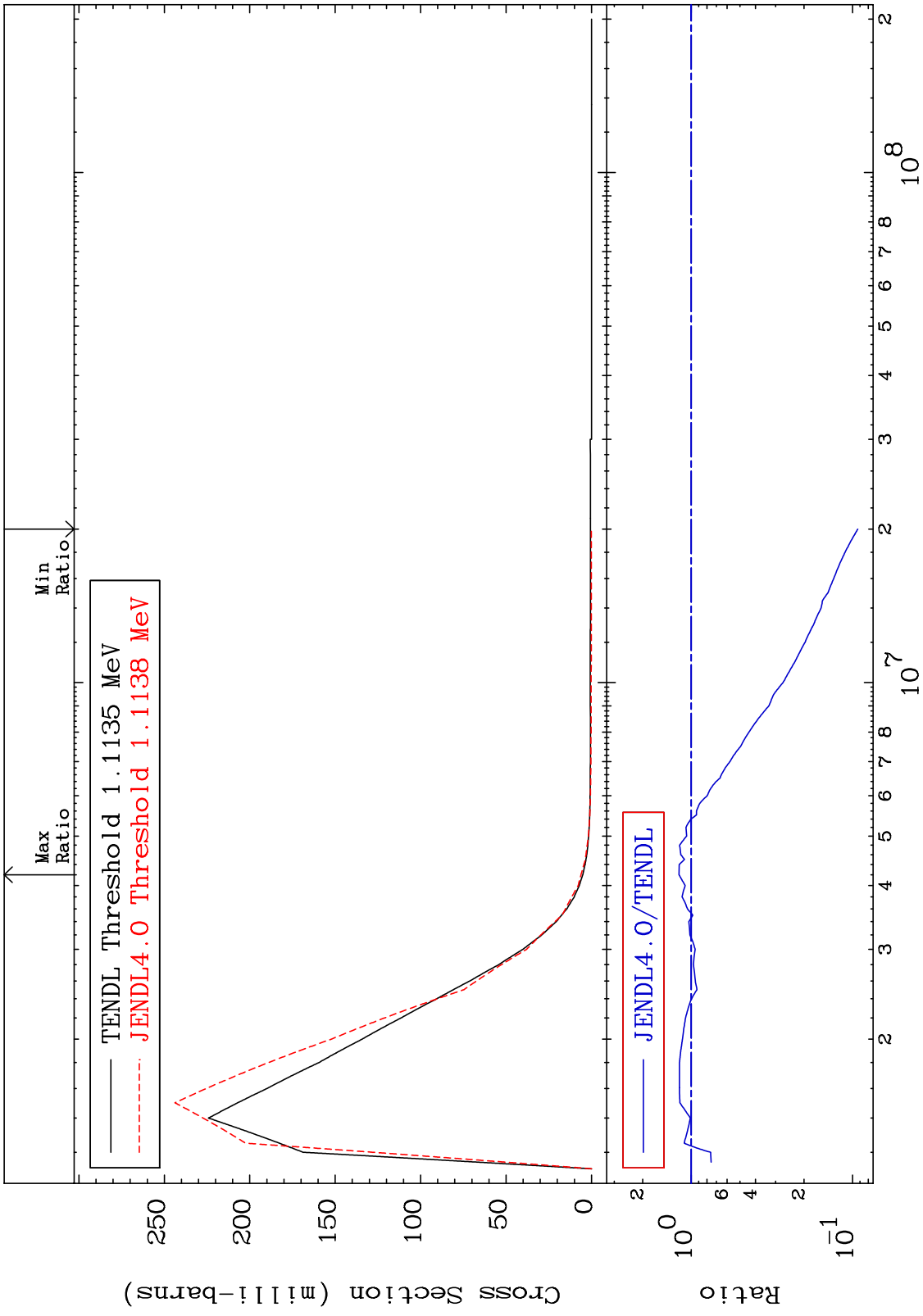
MAT 7243 MT= 54 (n,n') Level Cross Section 72-Hf-180 -92.31 To 0.594 %



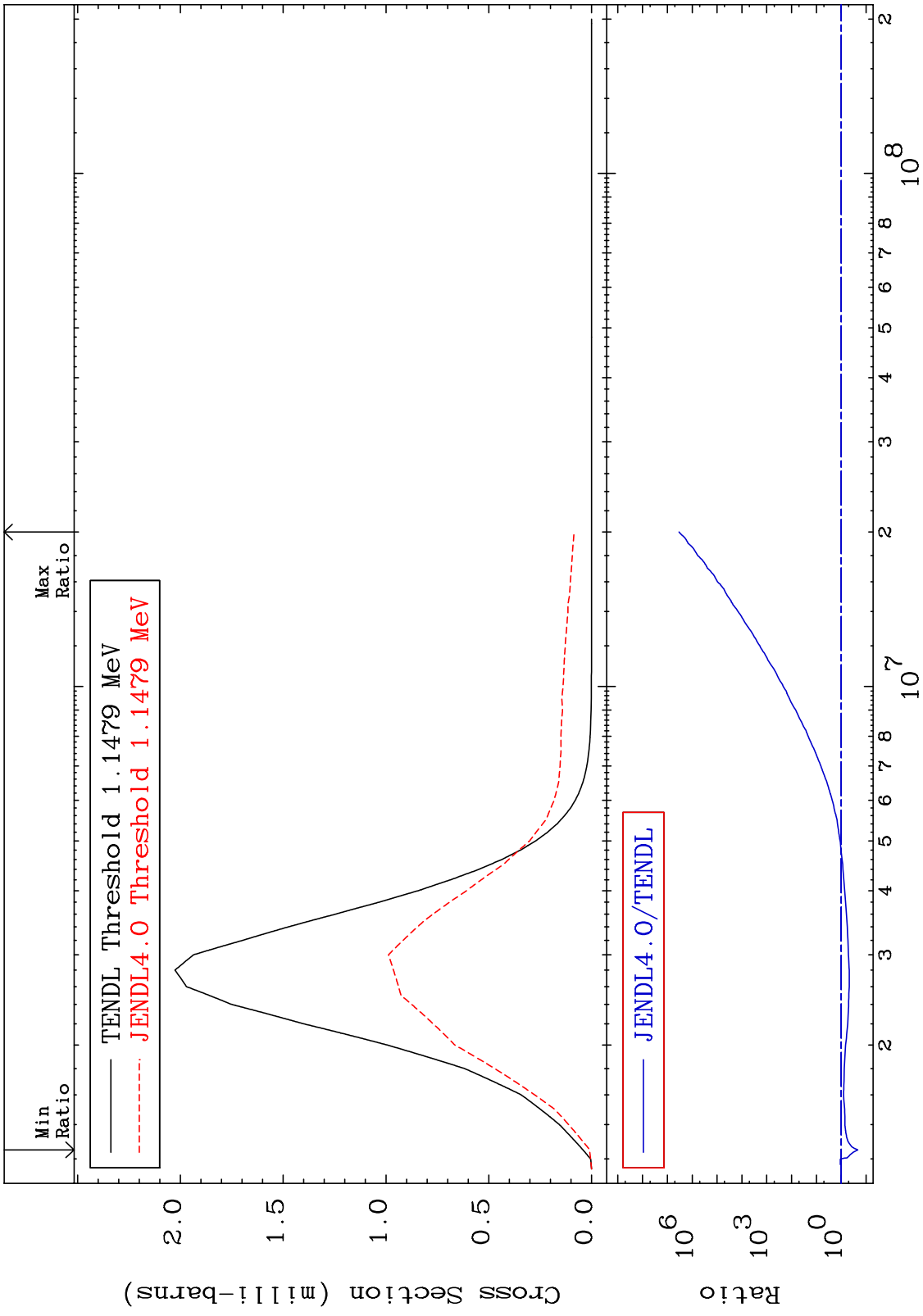
MAT 7243 MT= 55 (n,n') Level Cross Section 72-Hf-180  
 -16.04 To 9999. %



MAT 7243 MT= 56 (n,n') Level Cross Section 72-Hf-180 -90.71 To 19.13 %

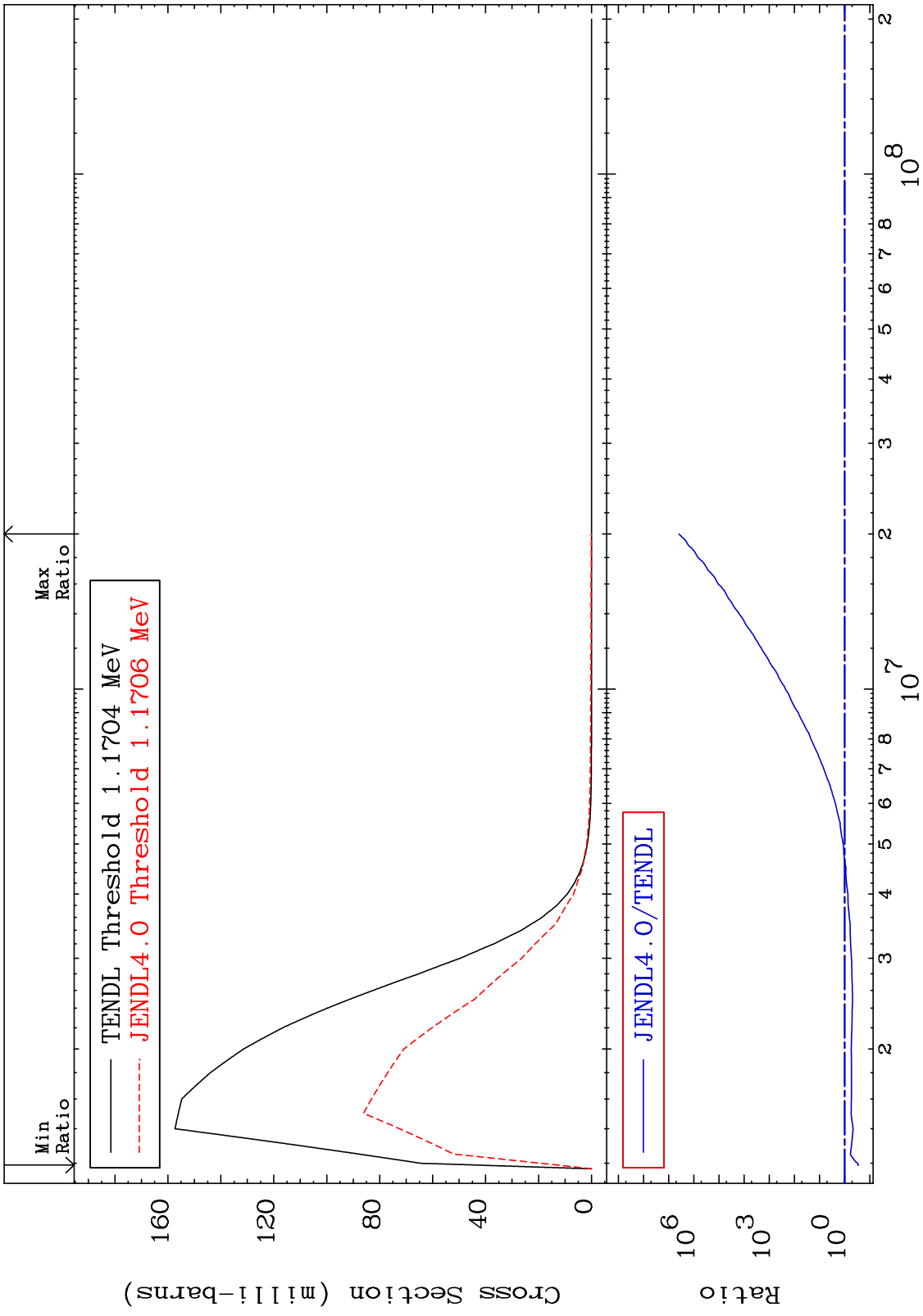


MAT 7243 MT= 57 (n,n') Level Cross Section 72-Hf-180  
 -78.57 To 9999. %

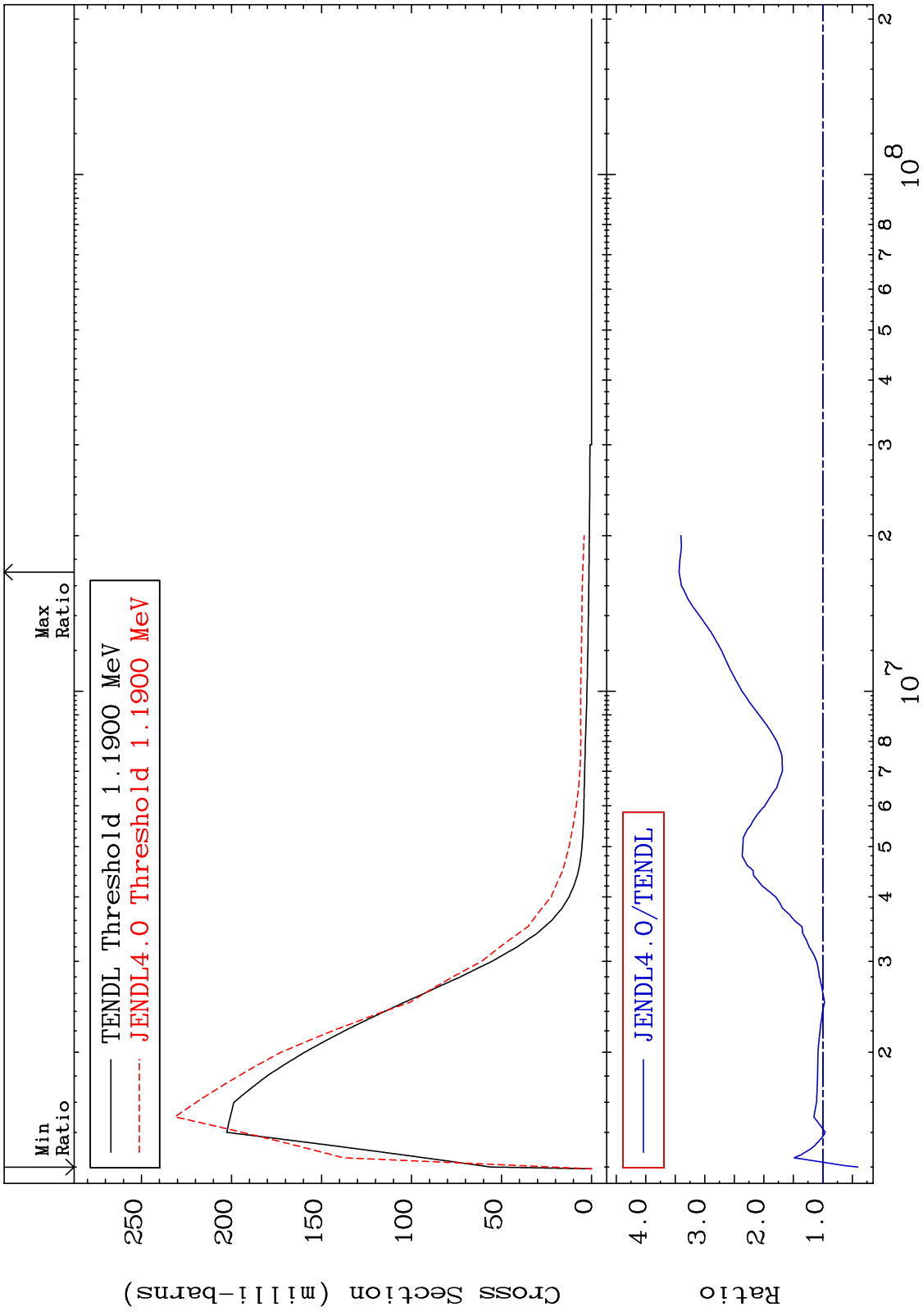




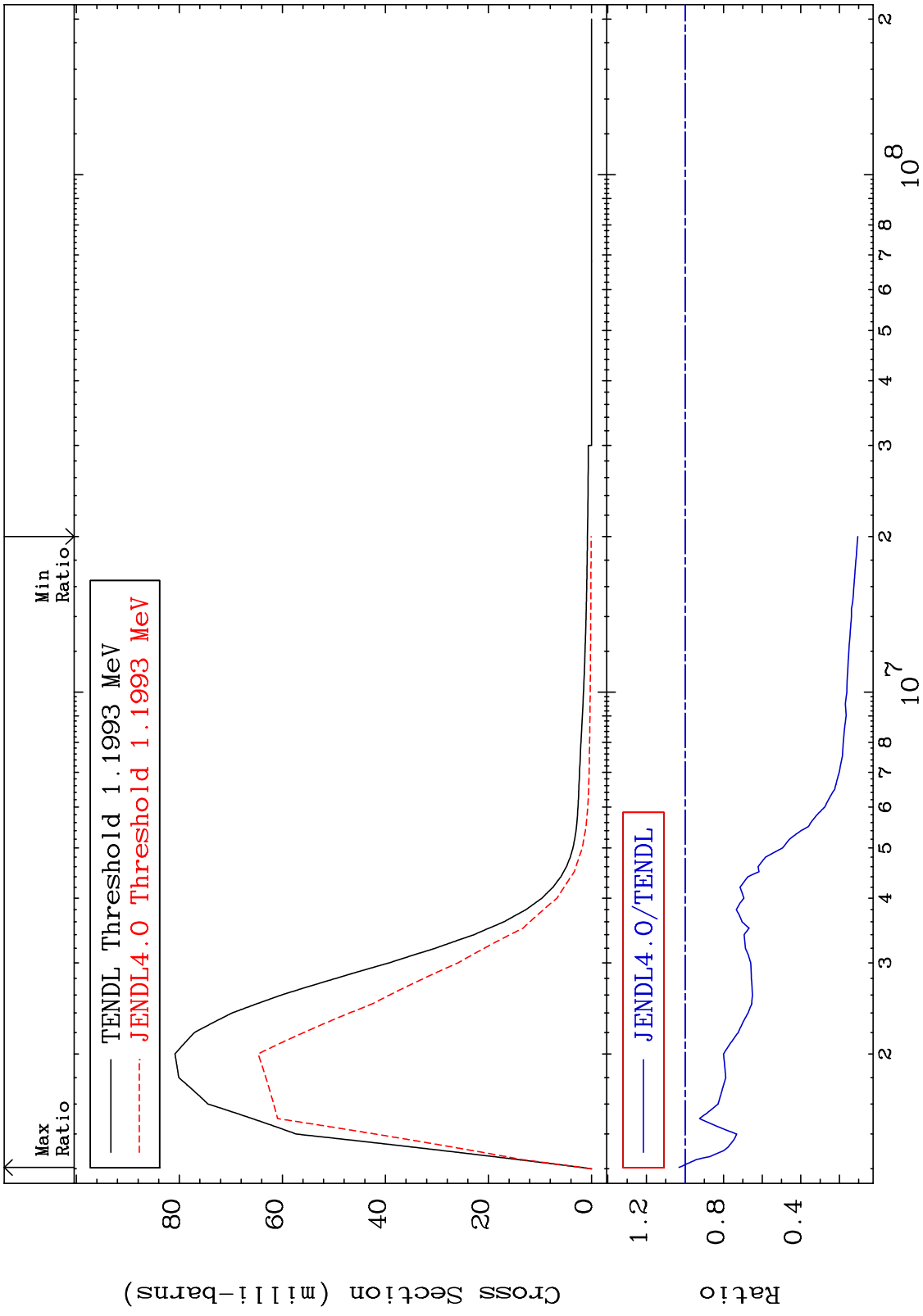
MAT 7243 MT= 58 (n,n') Level Cross Section 72-Hf-180  
 -70.28 To 9999. %



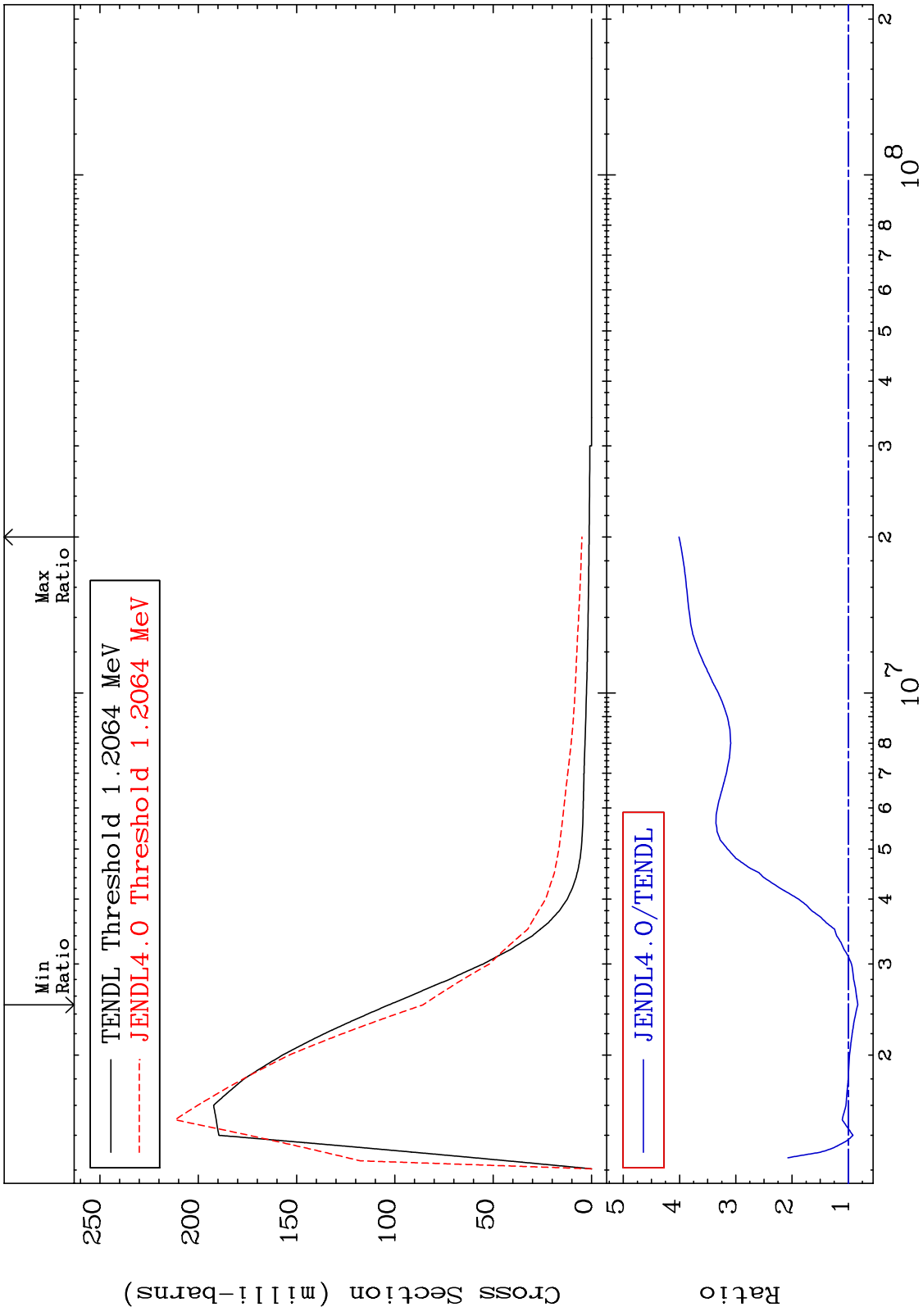
MAT 7243      MT= 59 (n,n') Level Cross Section      72-Hf-180  
 -59.36 To 243.5 %



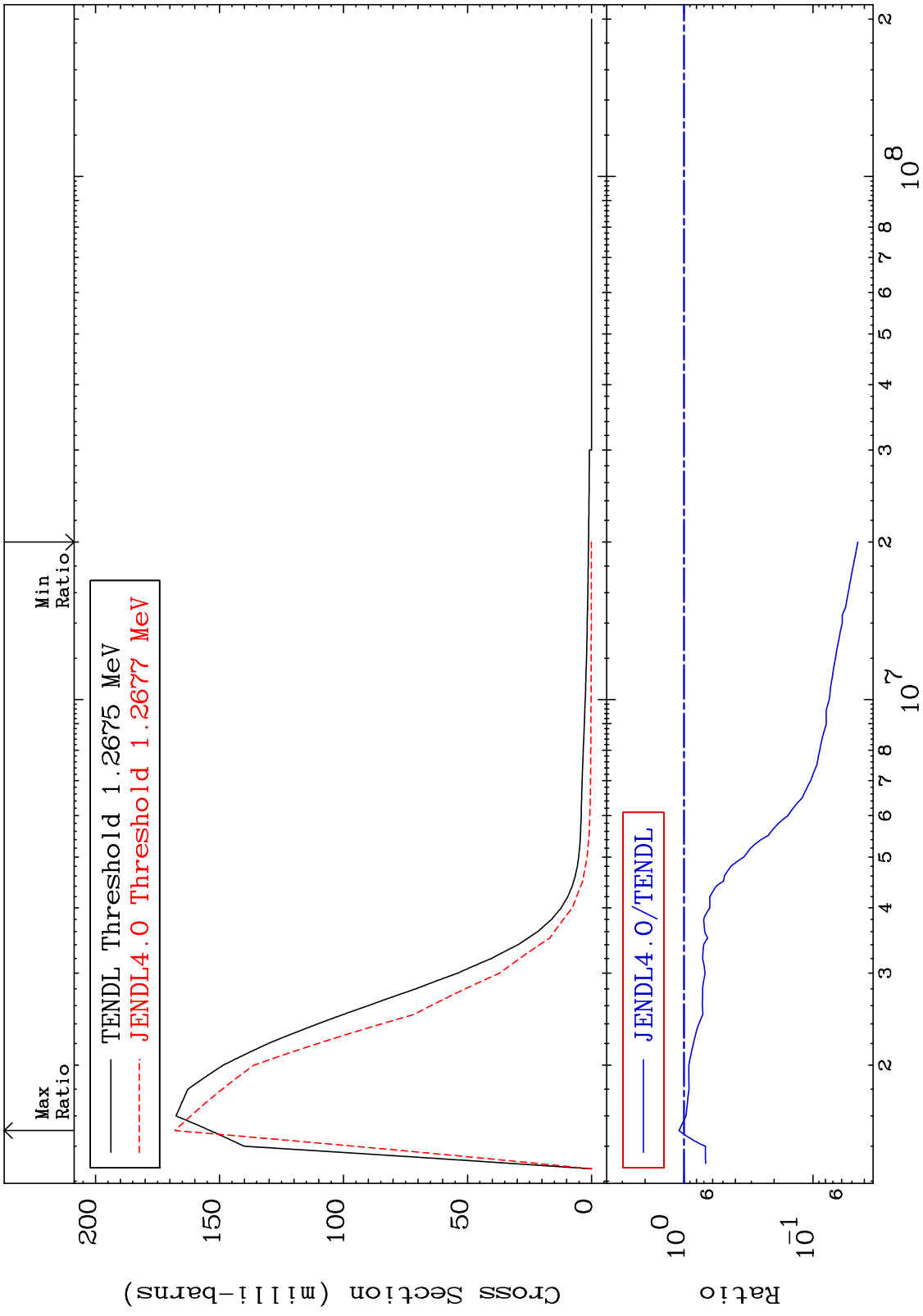
MAT 7243 MT= 60 (n,n') Level Cross Section 72-Hf-180 -89.54 To 3.092 %



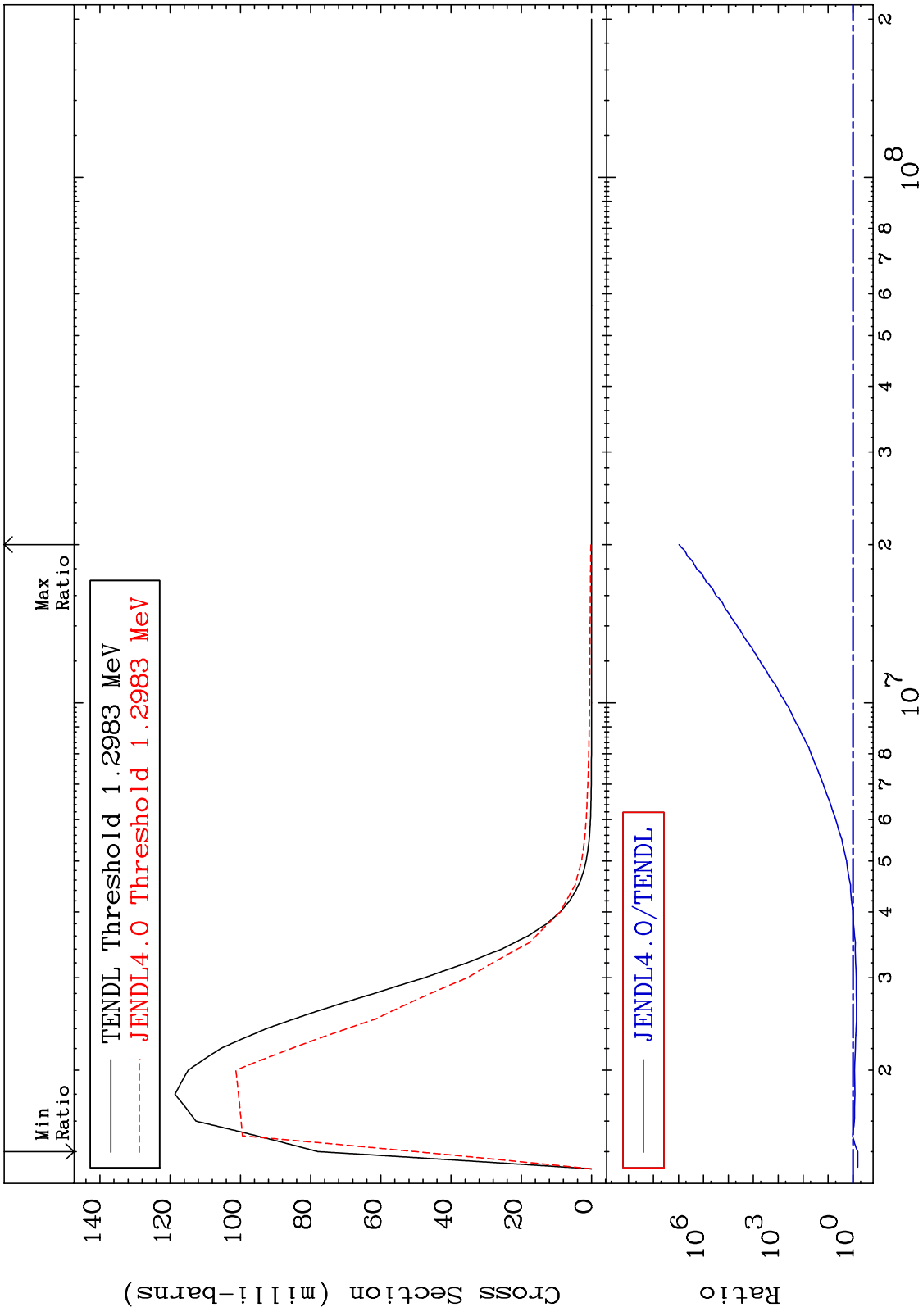
MAT 7243 MT= 61 (n,n') Level Cross Section 72-Hf-180  
 -16.87 To 300.9 %



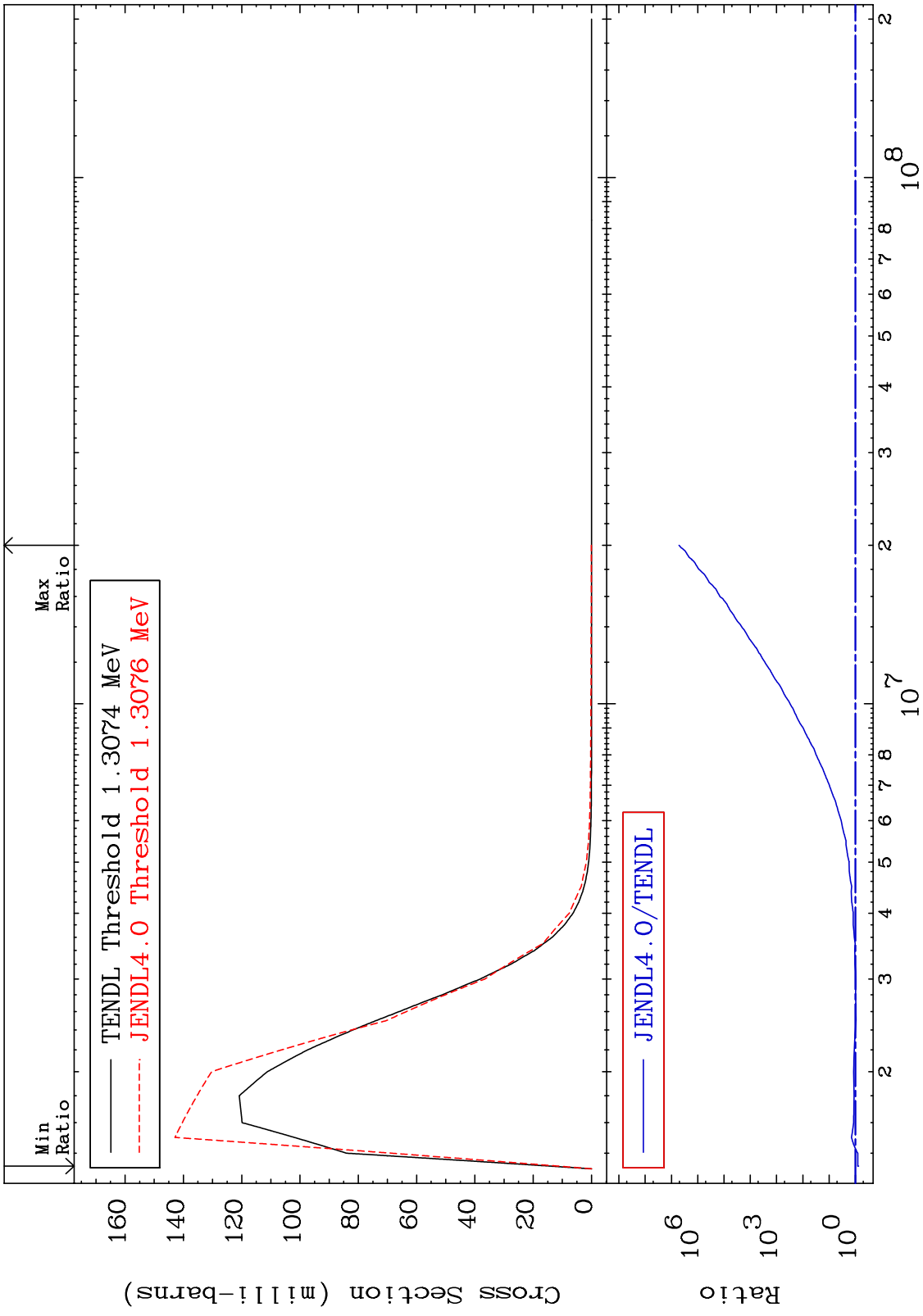
MAT 7243 MT= 62 (n,n') Level Cross Section 72-Hf-180 -95.51 To 9.231 %



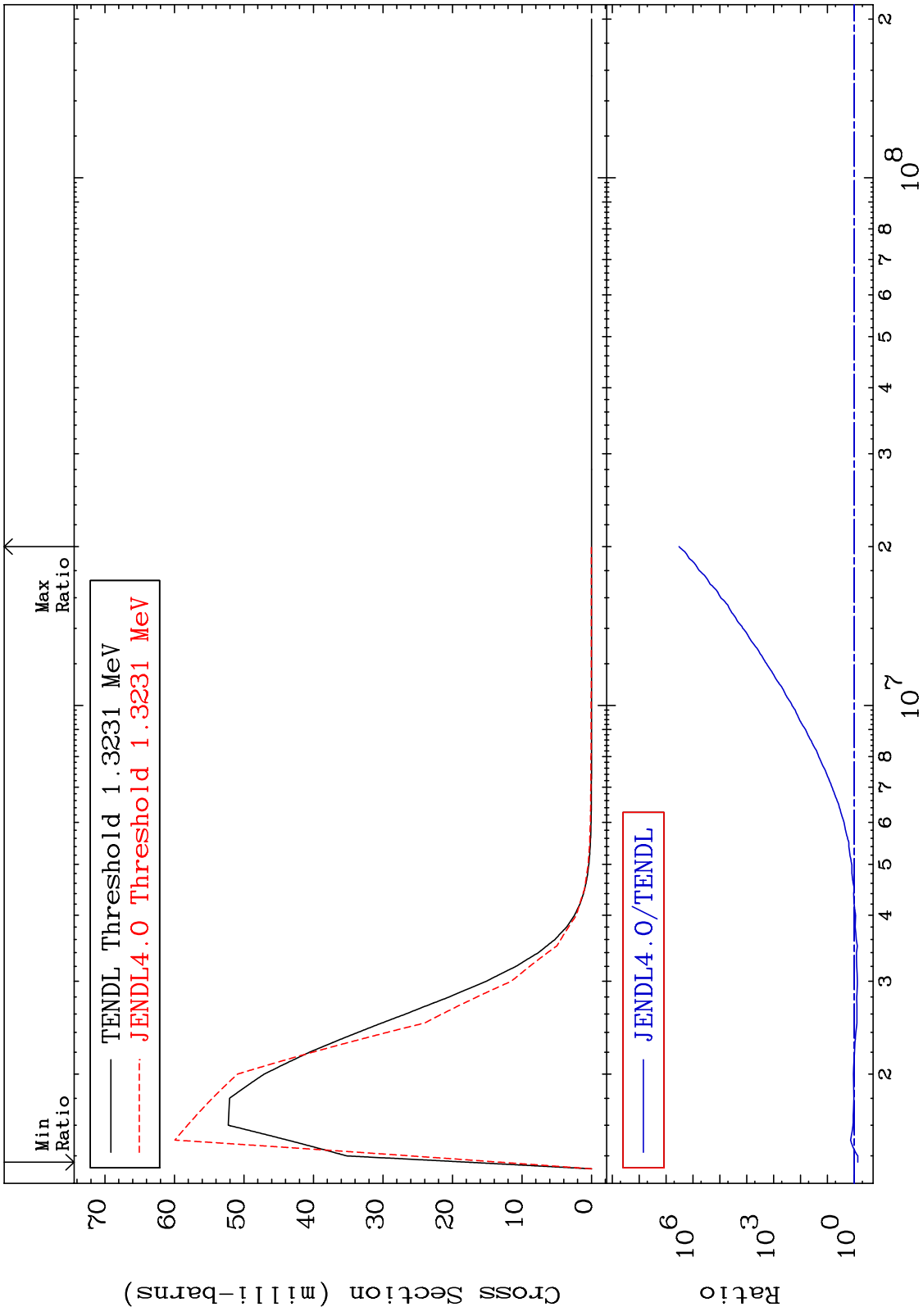
MAT 7243 MT= 63 (n,n') Level Cross Section 72-Hf-180  
 -35.70 To 9999. %



MAT 7243 MT= 64 (n,n') Level Cross Section 72-Hf-180  
 -19.21 To 9999. %

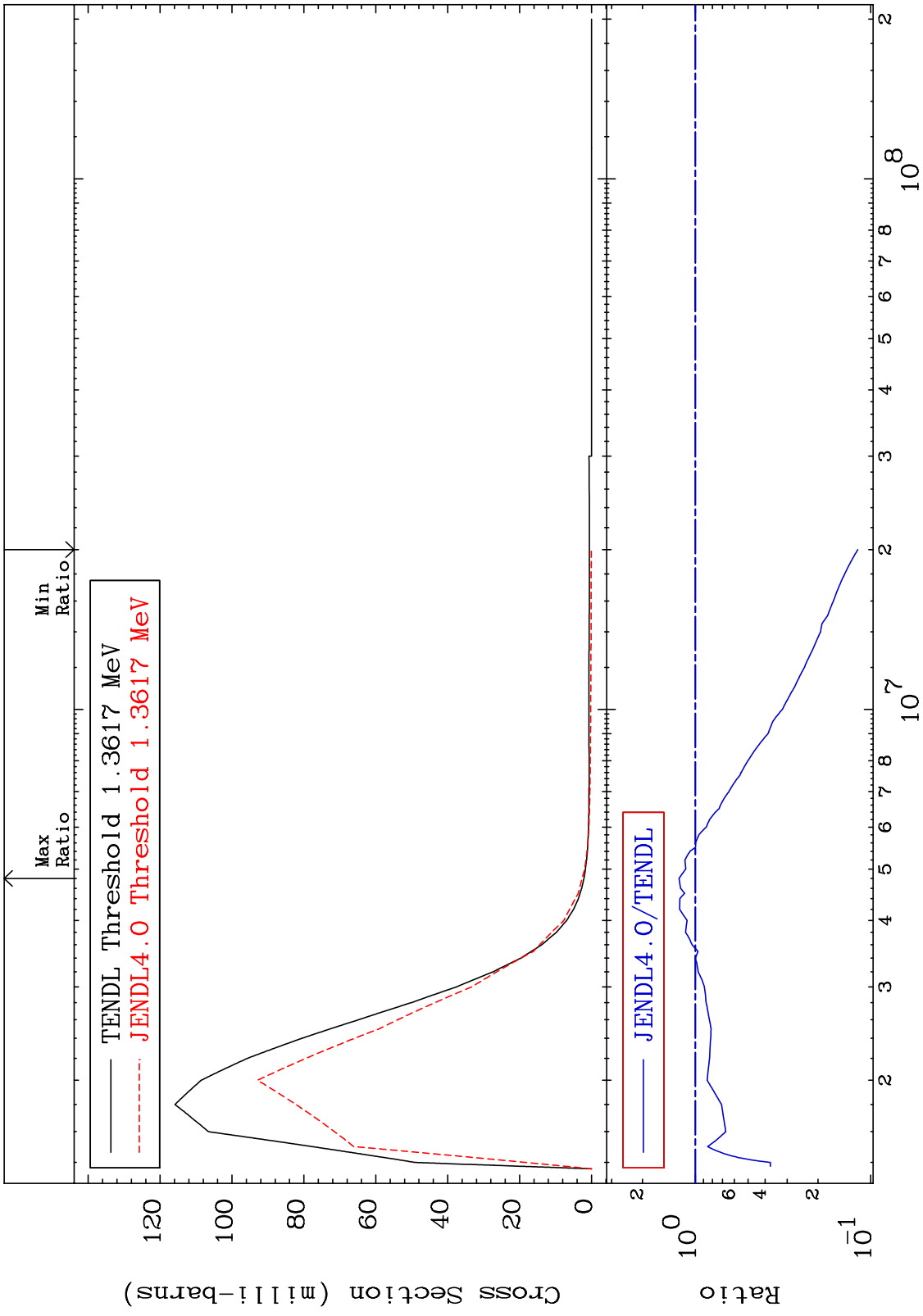


MAT 7243      MT= 65 (n,n') Level Cross Section      72-Hf-180  
 -26.20 To 9999. %

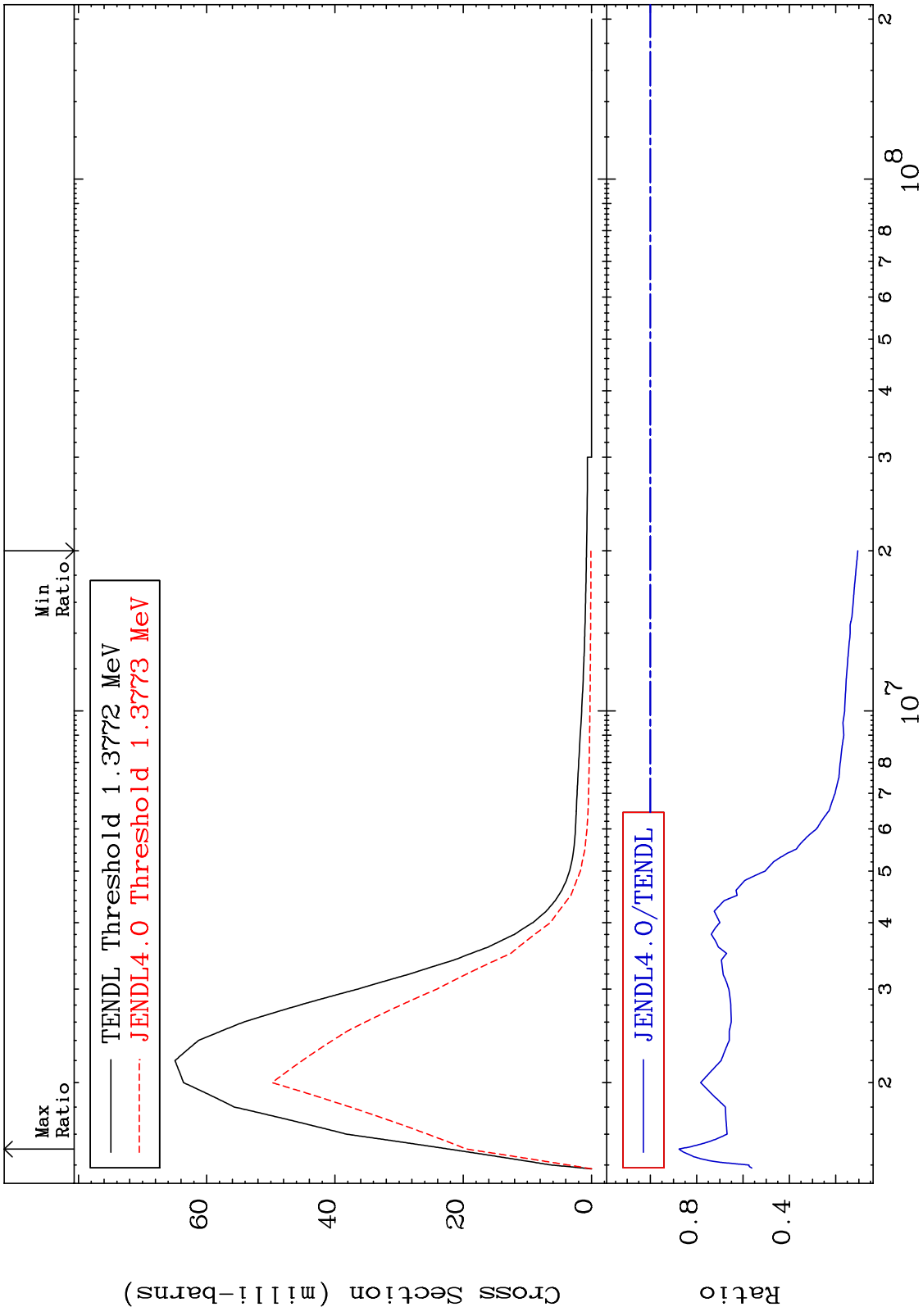




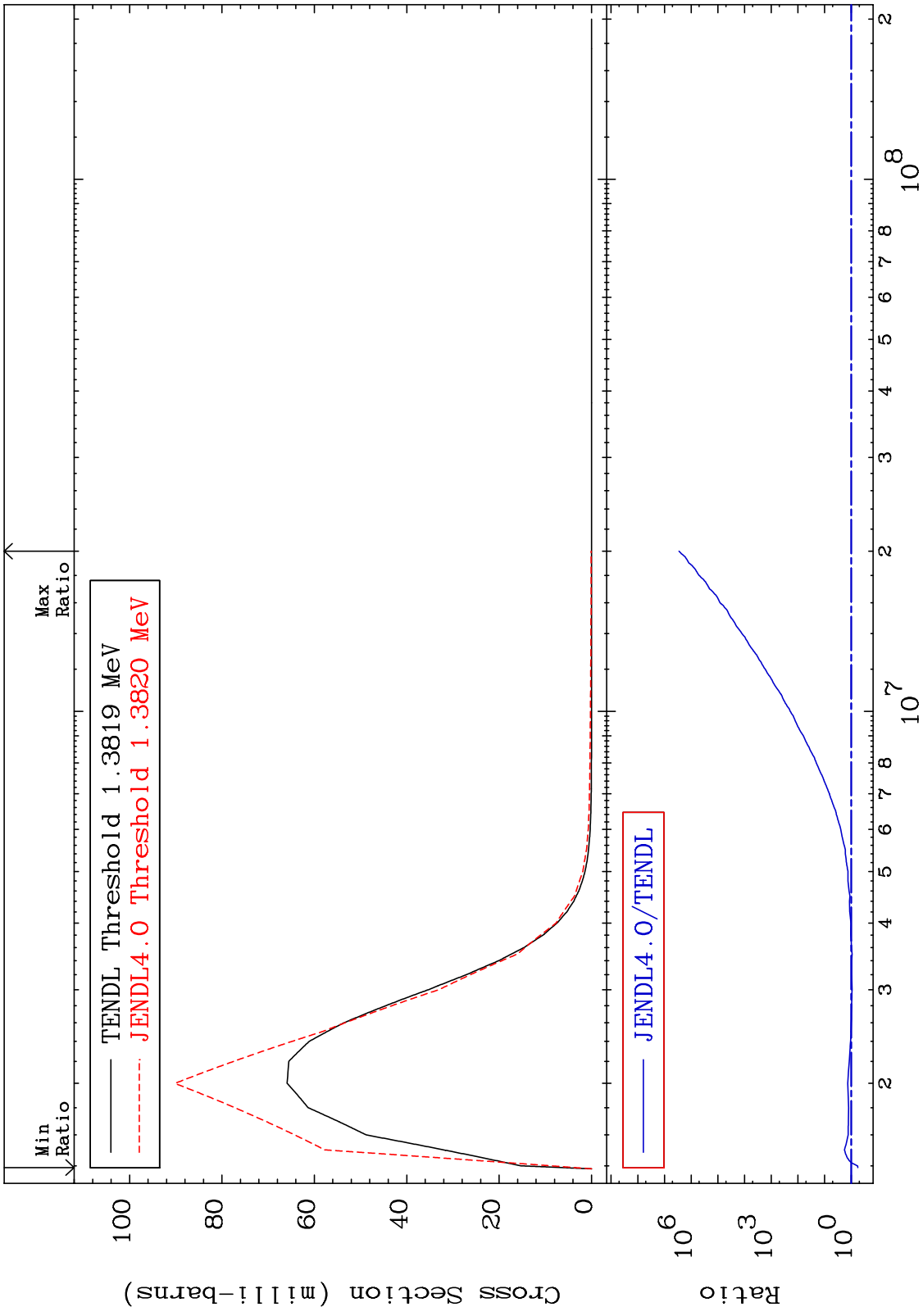
MAT 7243 MT= 66 (n,n') Level Cross Section 72-Hf-180  
 -88.15 To 23.87 %



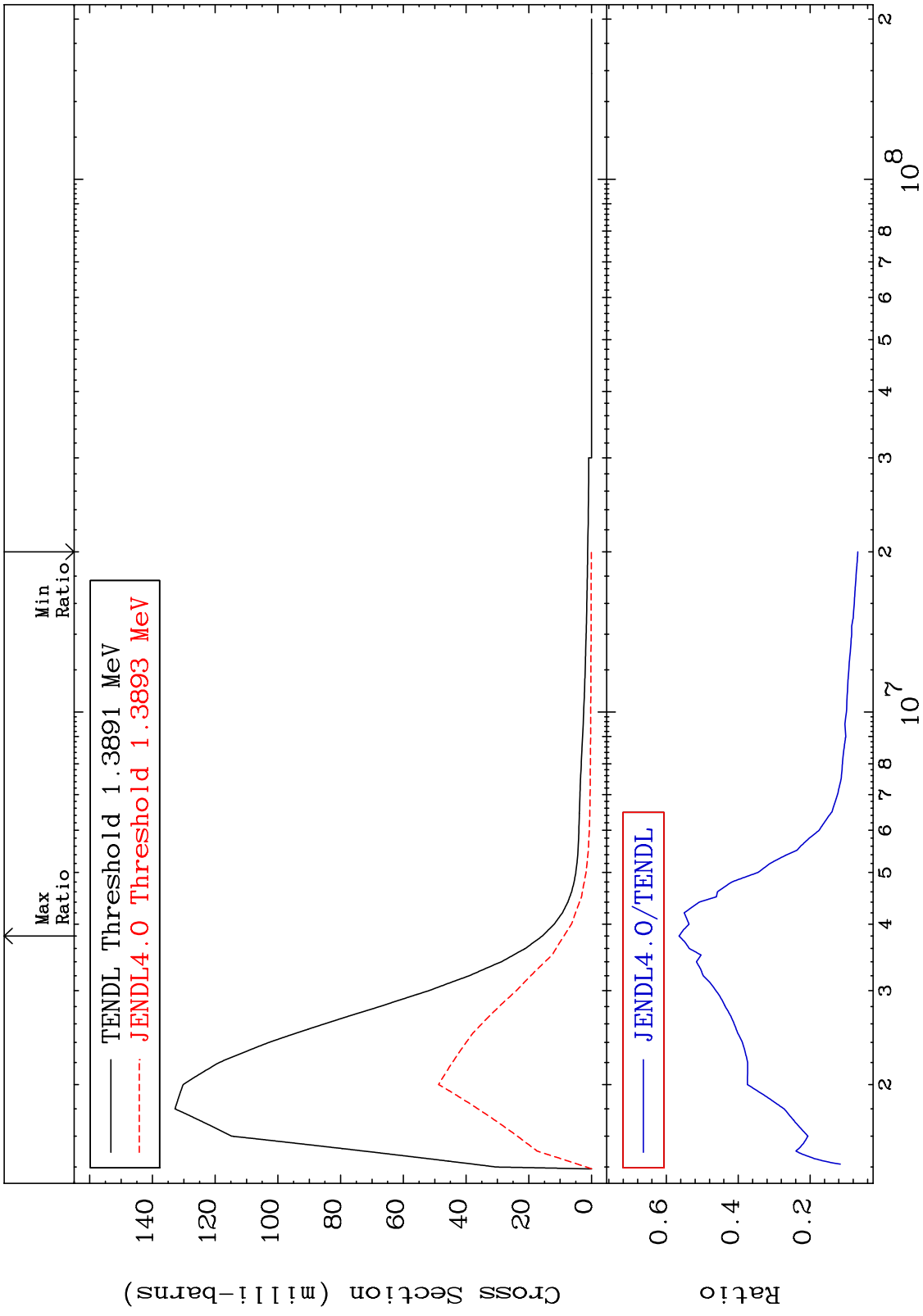
MAT 7243 MT= 67 (n,n') Level Cross Section 72-Hf-180 -89.54 To -12.41%



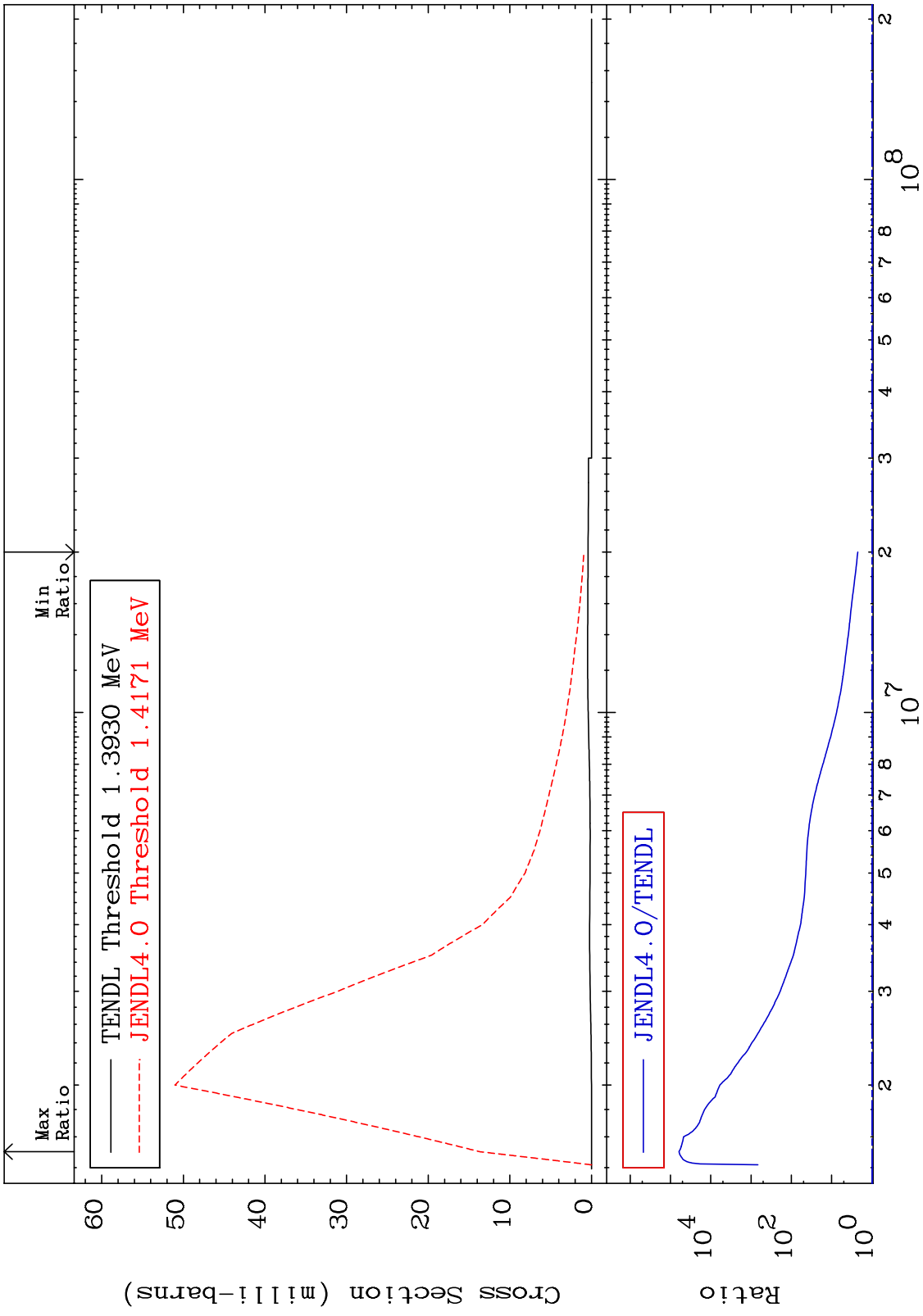
MAT 7243 MT= 68 (n,n') Level Cross Section 72-Hf-180  
 -43.22 To 9999. %



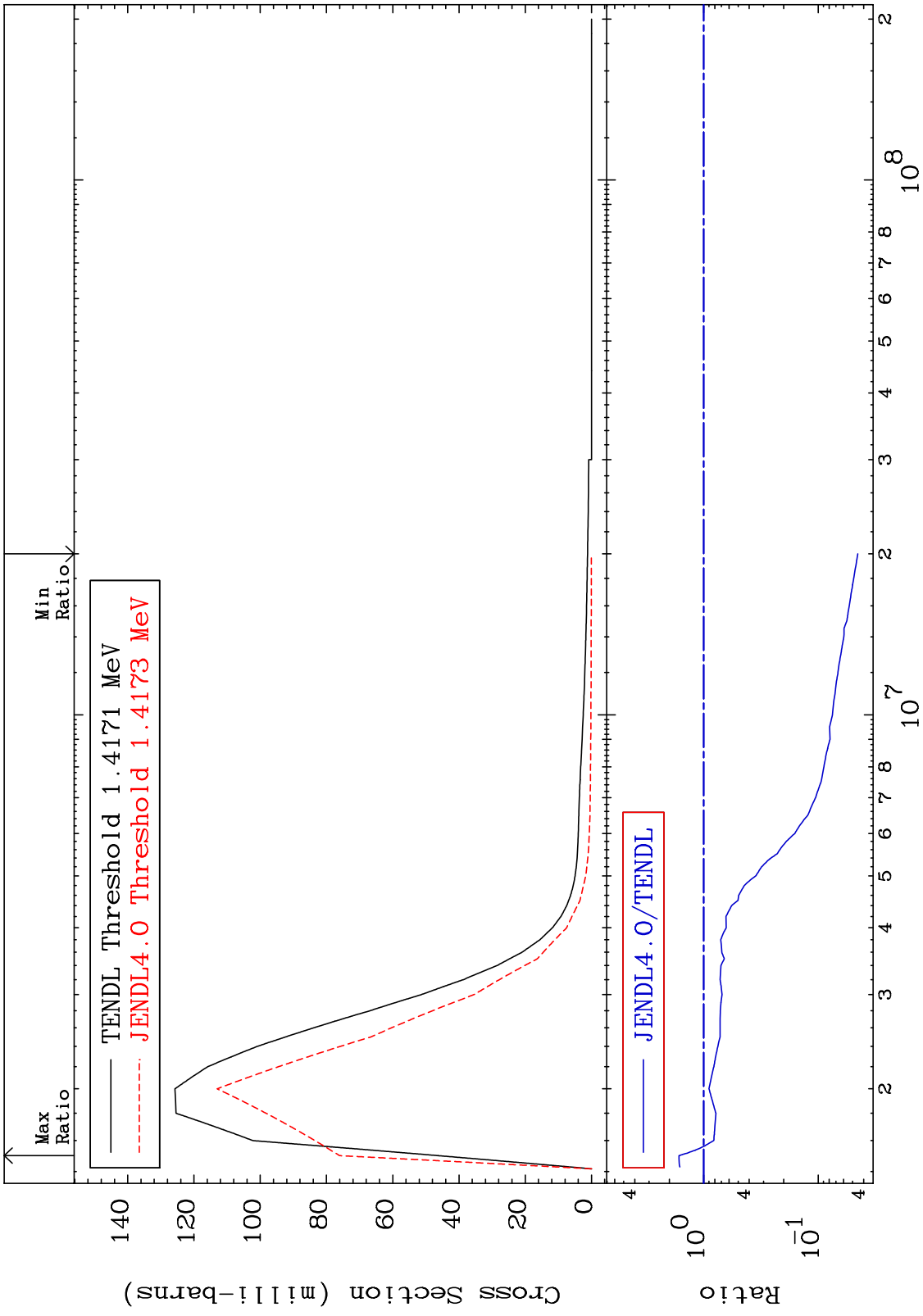
MAT 7243 MT= 69 (n,n') Level Cross Section 72-Hf-180 -93.28 To -43.53%



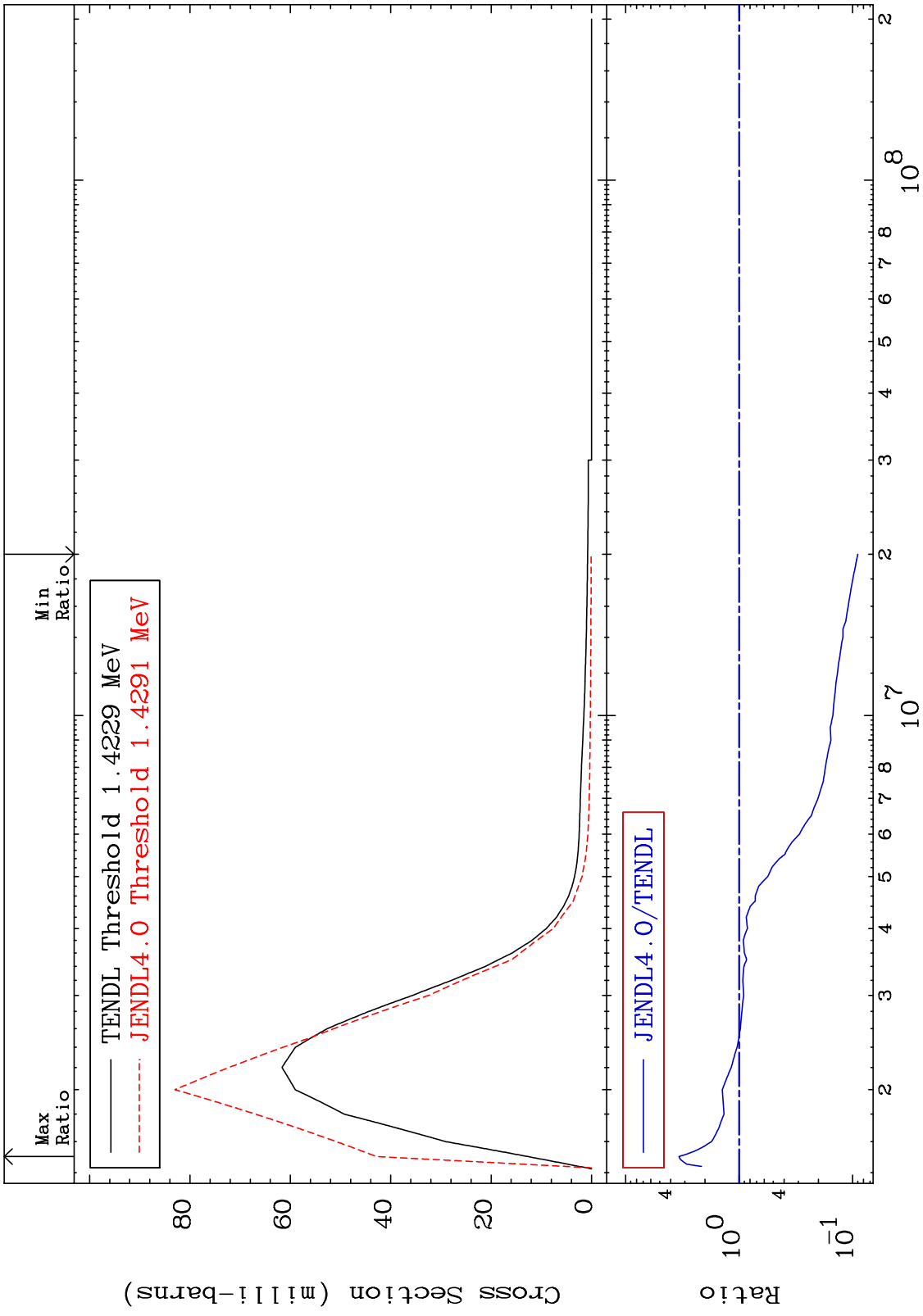
MAT 7243 MT= 70 (n,n') Level Cross Section 72-Hf-180 124.1 To 9999. %



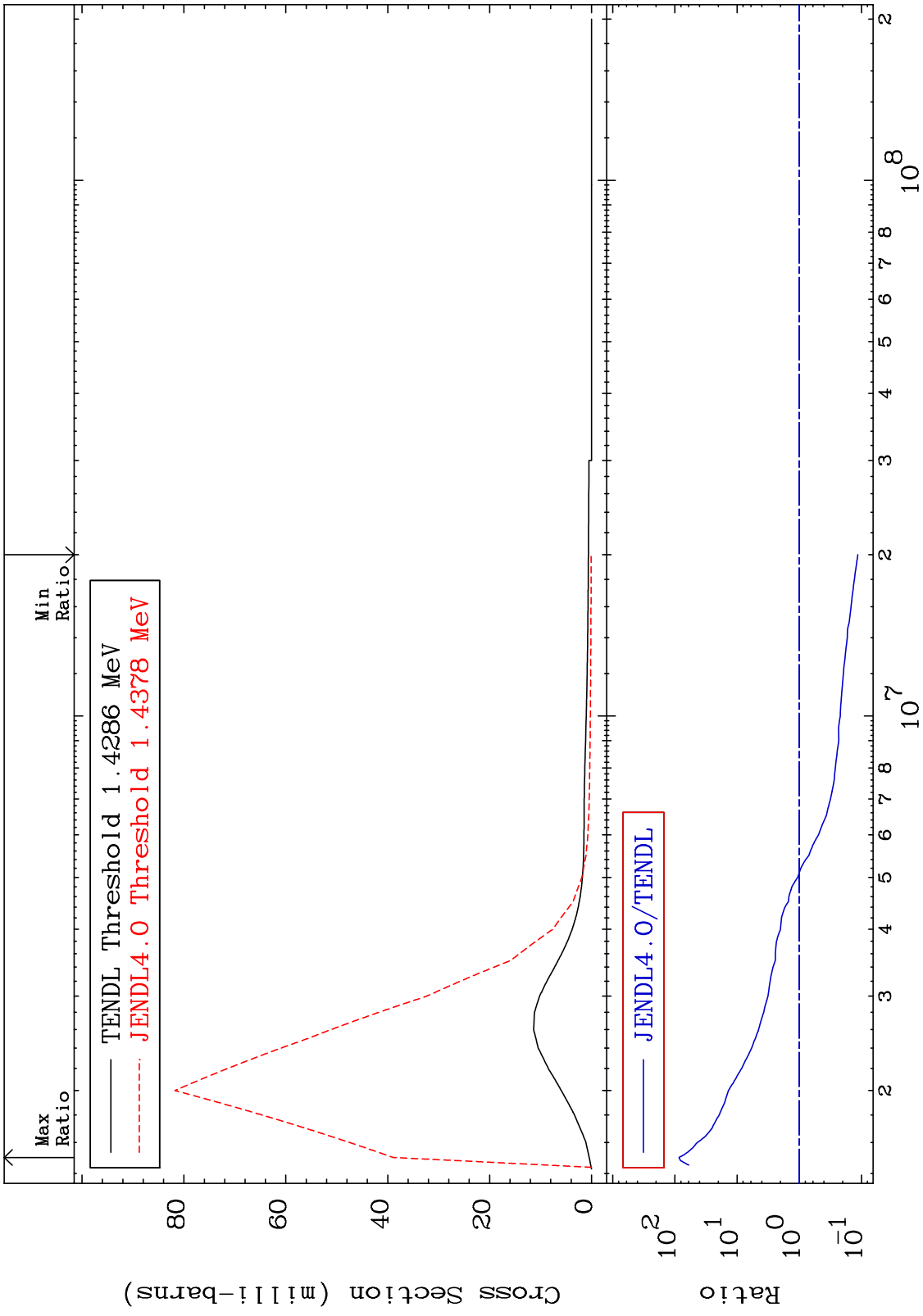
MAT 7243 MT= 71 (n,n') Level Cross Section 72-Hf-180 -95.50 To 64.29 %



MAT 7243 MT= 72 (n,n') Level Cross Section 72-Hf-180 -91.02 To 238.0 %

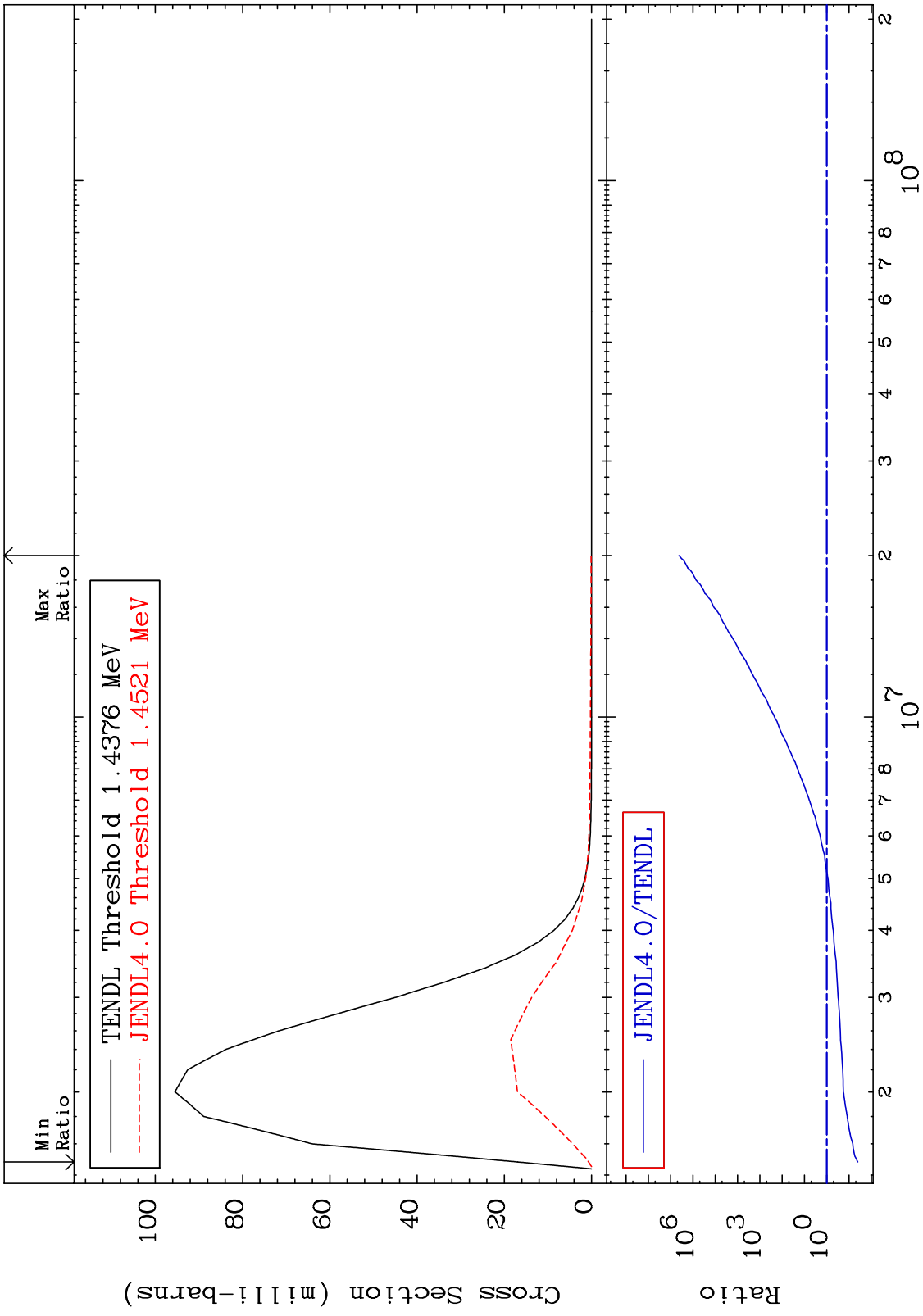


MAT 7243 MT= 73 (n,n') Level Cross Section 72-Hf-180 -88.58 To 8459. %

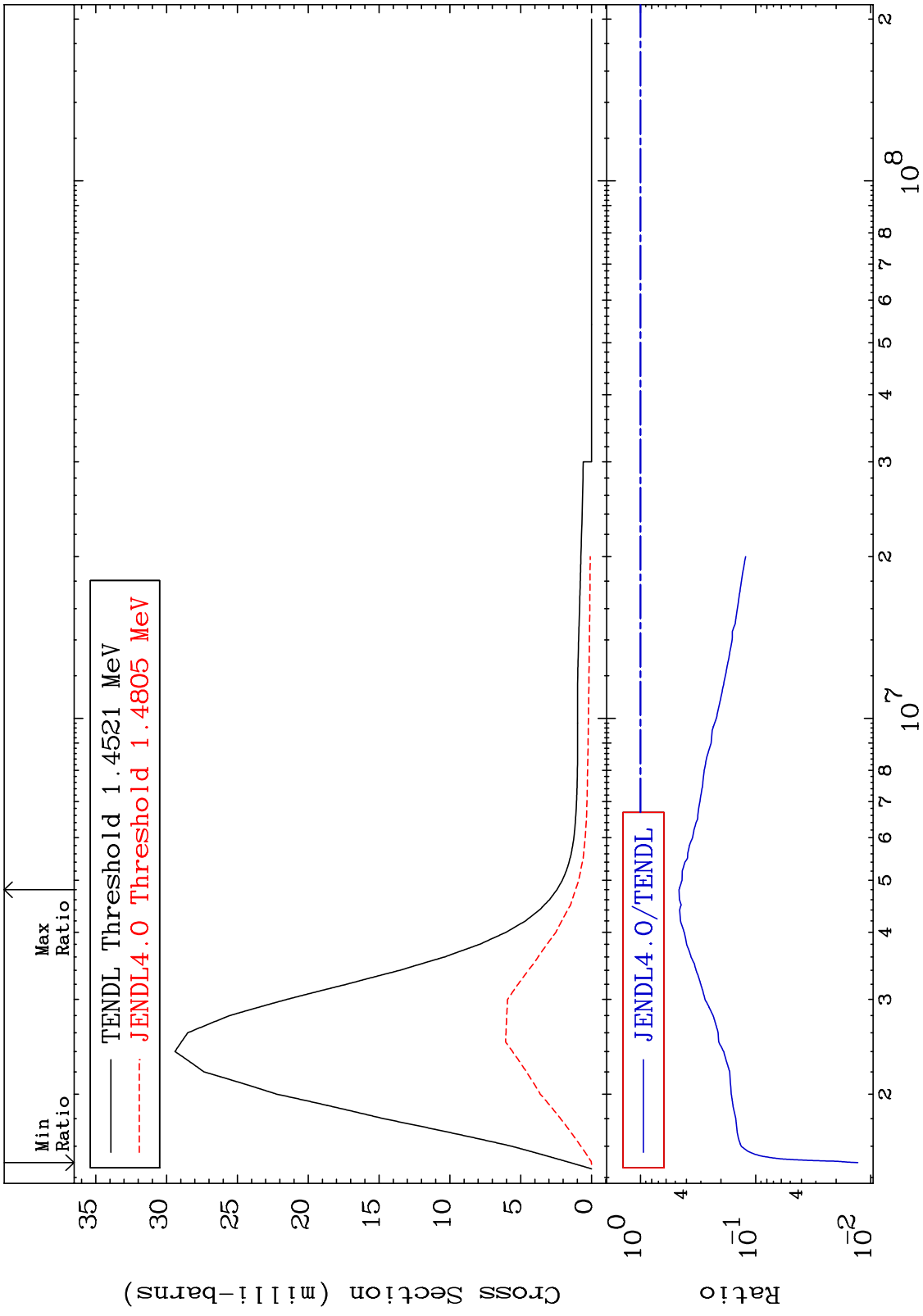




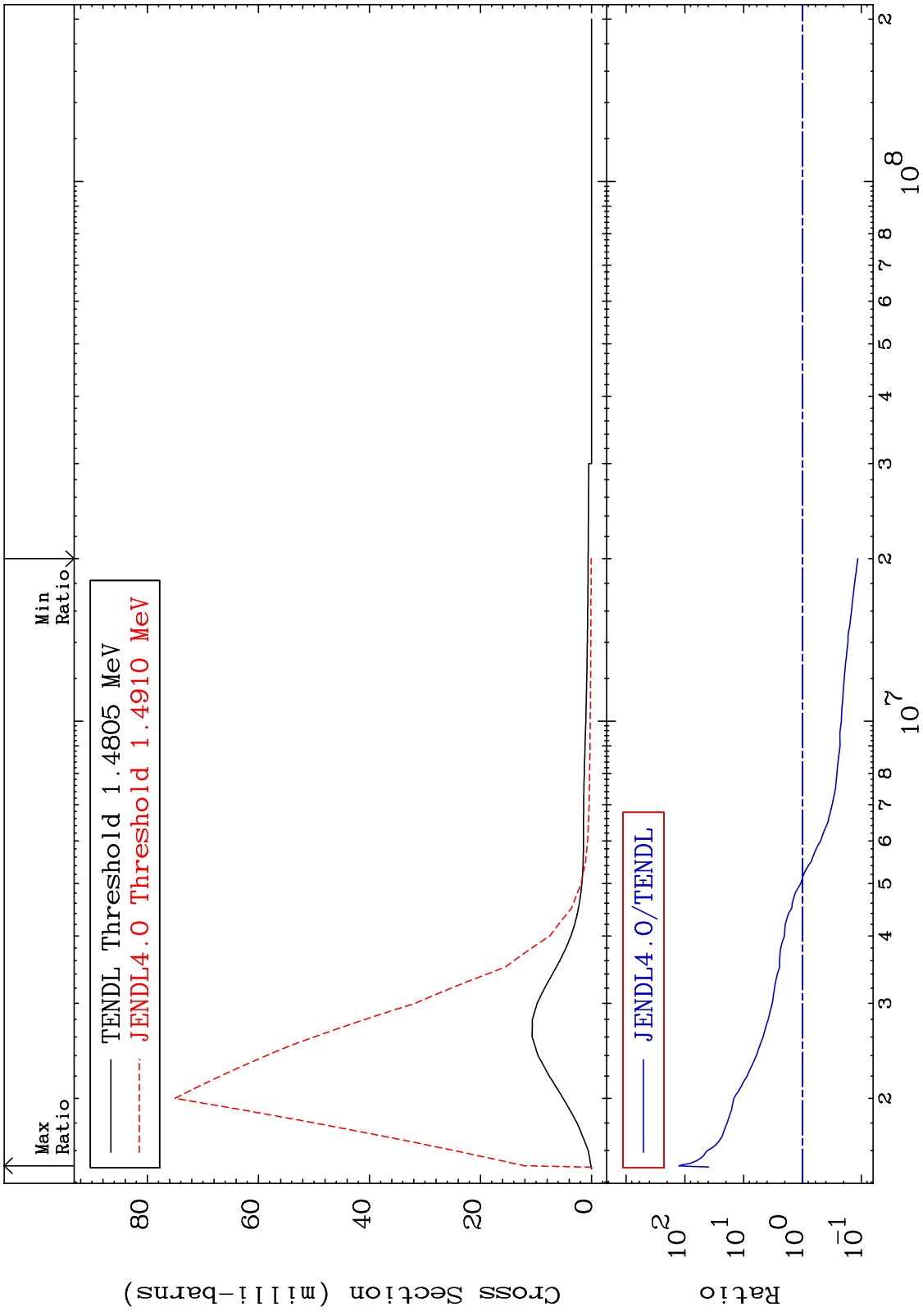
MAT 7243 MT= 74 (n,n') Level Cross Section 72-Hf-180  
 -95.98 To 9999. %



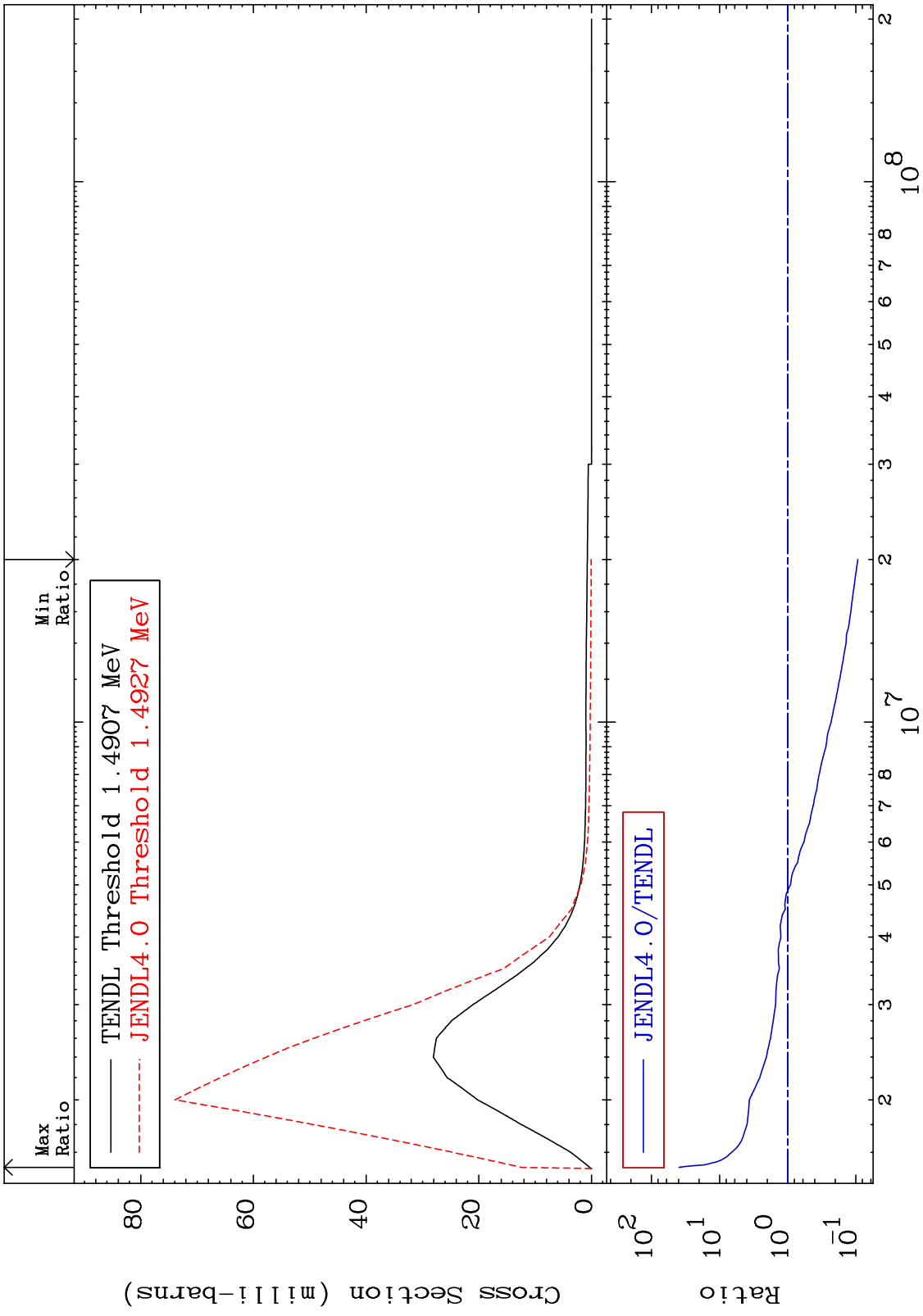
MAT 7243 MT= 75 (n,n') Level Cross Section 72-Hf-180  
 -98.70 To -53.70%



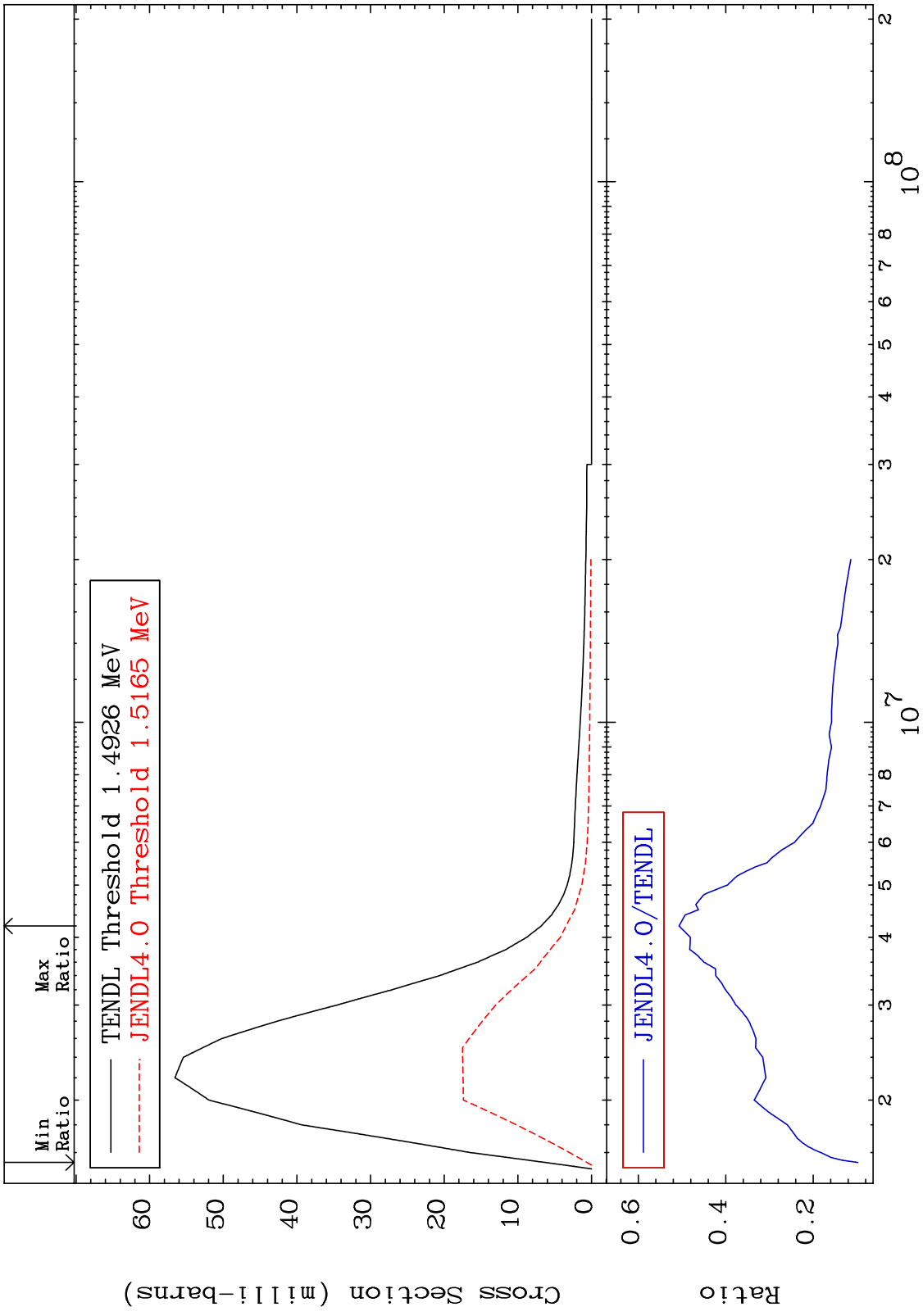
MAT 7243 MT= 76 (n,n') Level Cross Section 72-Hf-180  
 -88.58 To 9999. %



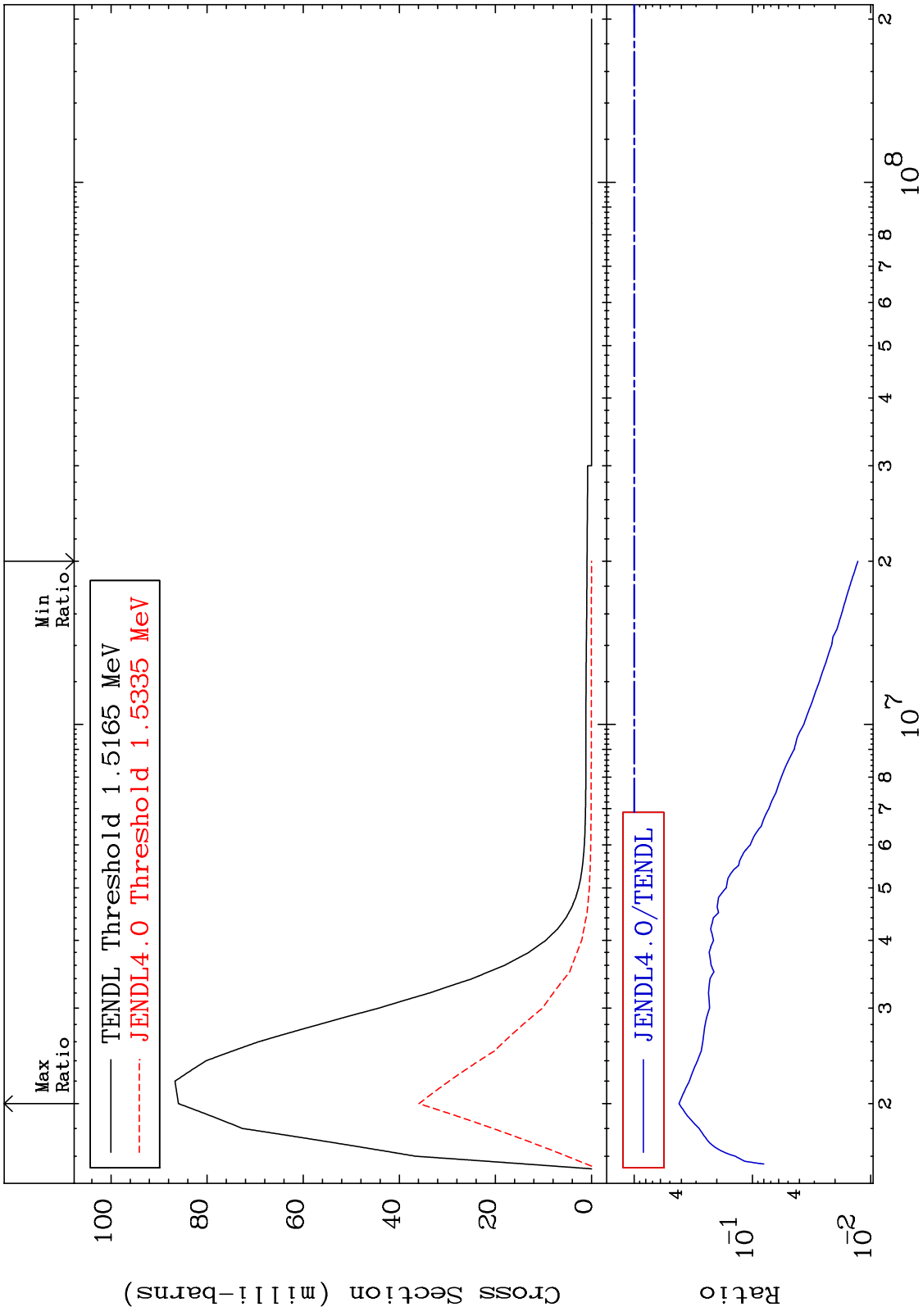
MAT 7243 MT= 77 (n,n') Level Cross Section 72-Hf-180 -90.65 To 3838. %



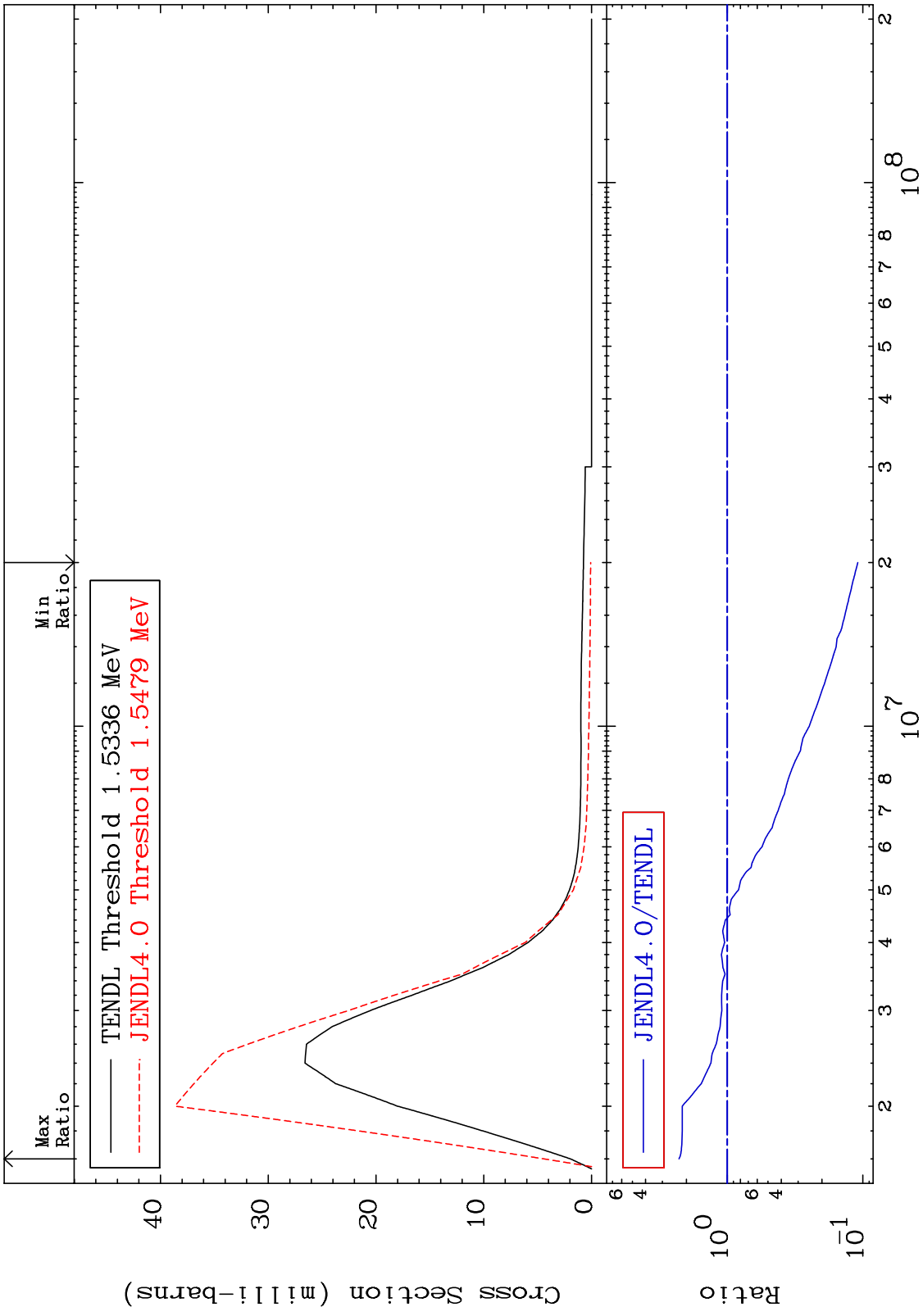
MAT 7243 MT= 78 (n,n') Level Cross Section 72-Hf-180  
 -90.23 To -49.30%



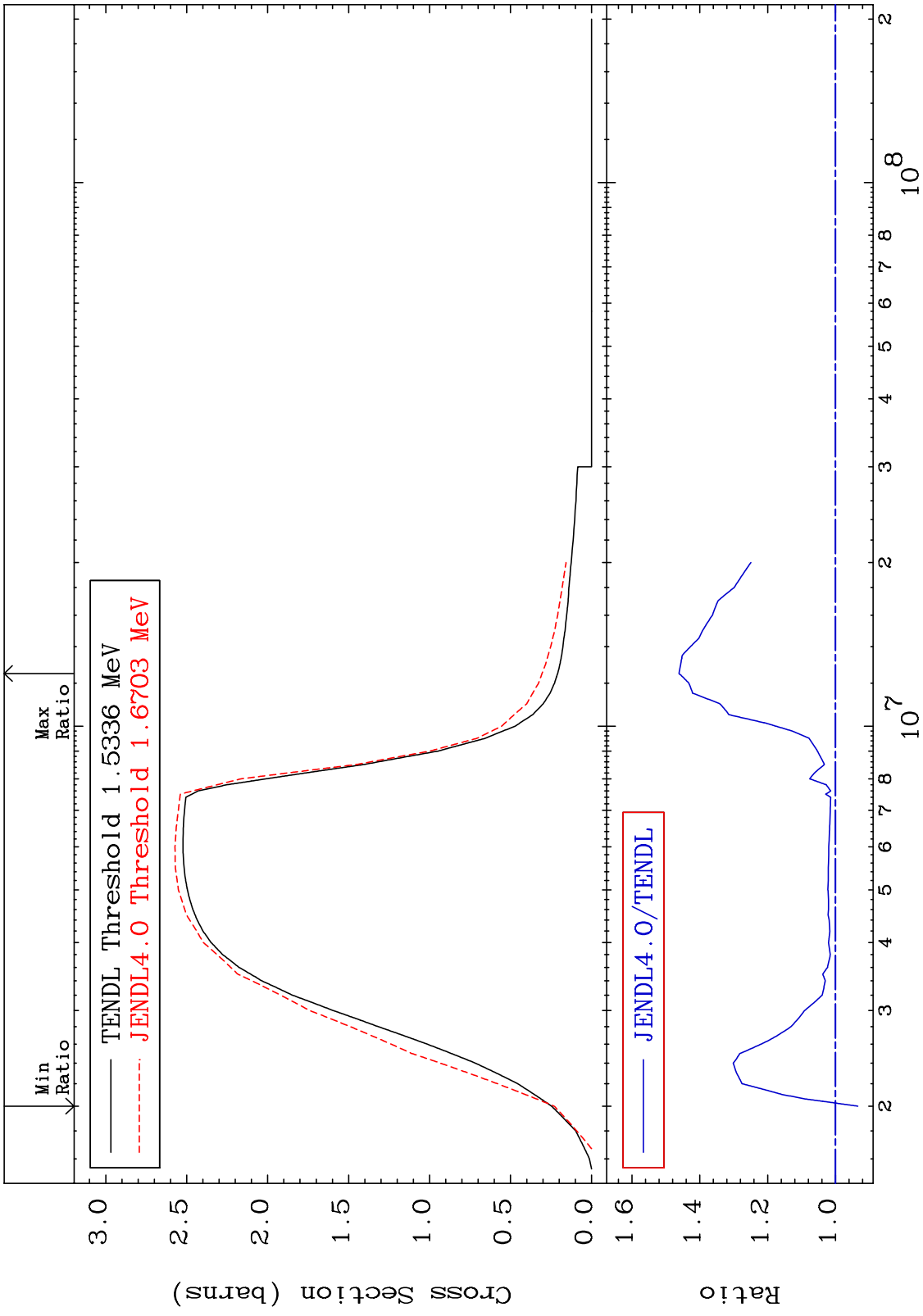
MAT 7243 MT= 79 (n,n') Level Cross Section 72-Hf-180 -98.72 To -58.22%



MAT 7243 MT= 80 (n,n') Level Cross Section 72-Hf-180  
 -89.11 To 126.4 %



MAT 7243 (n, n') Continuum Cross Section 72-Hf-180  
 -6.598 To 46.12 %





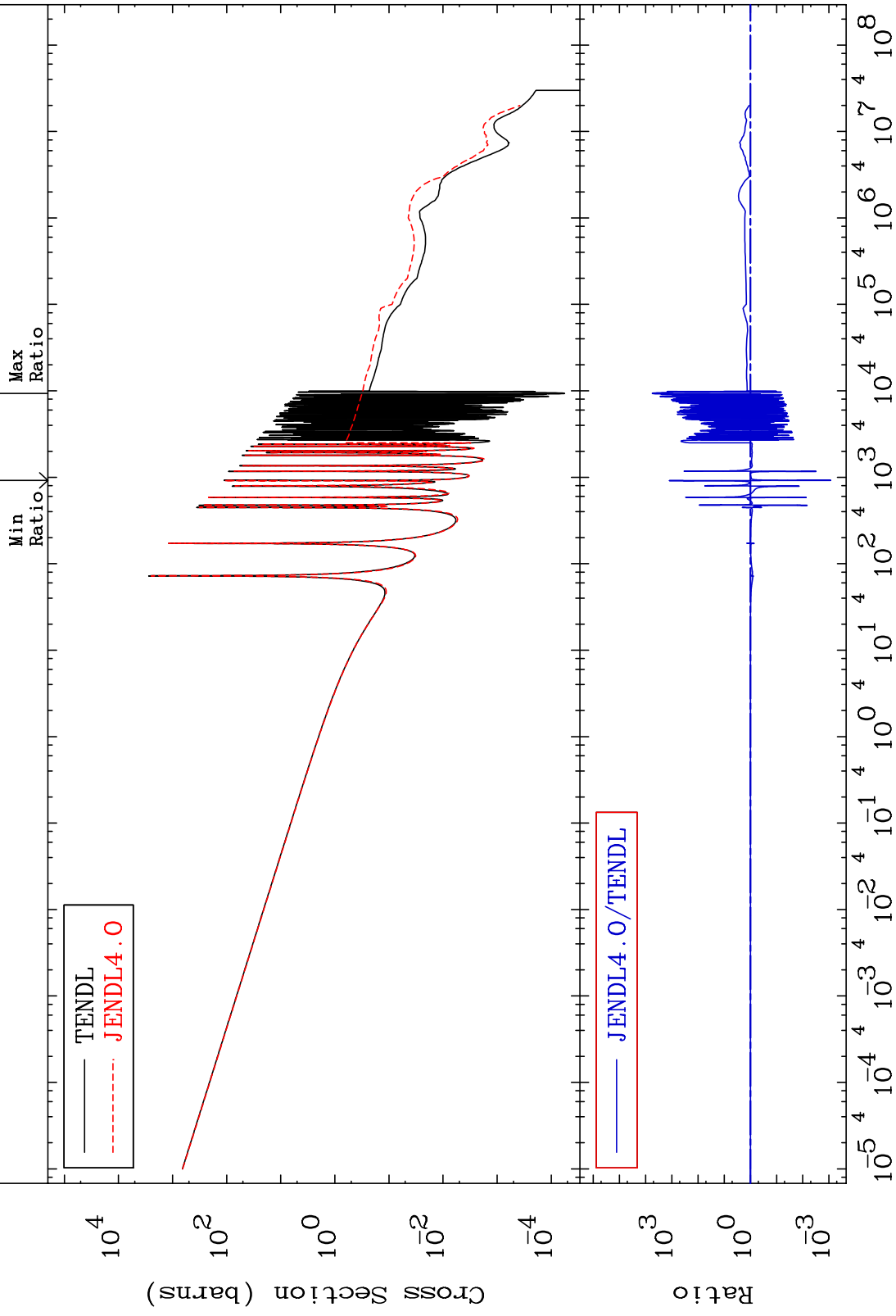
MAT 7243

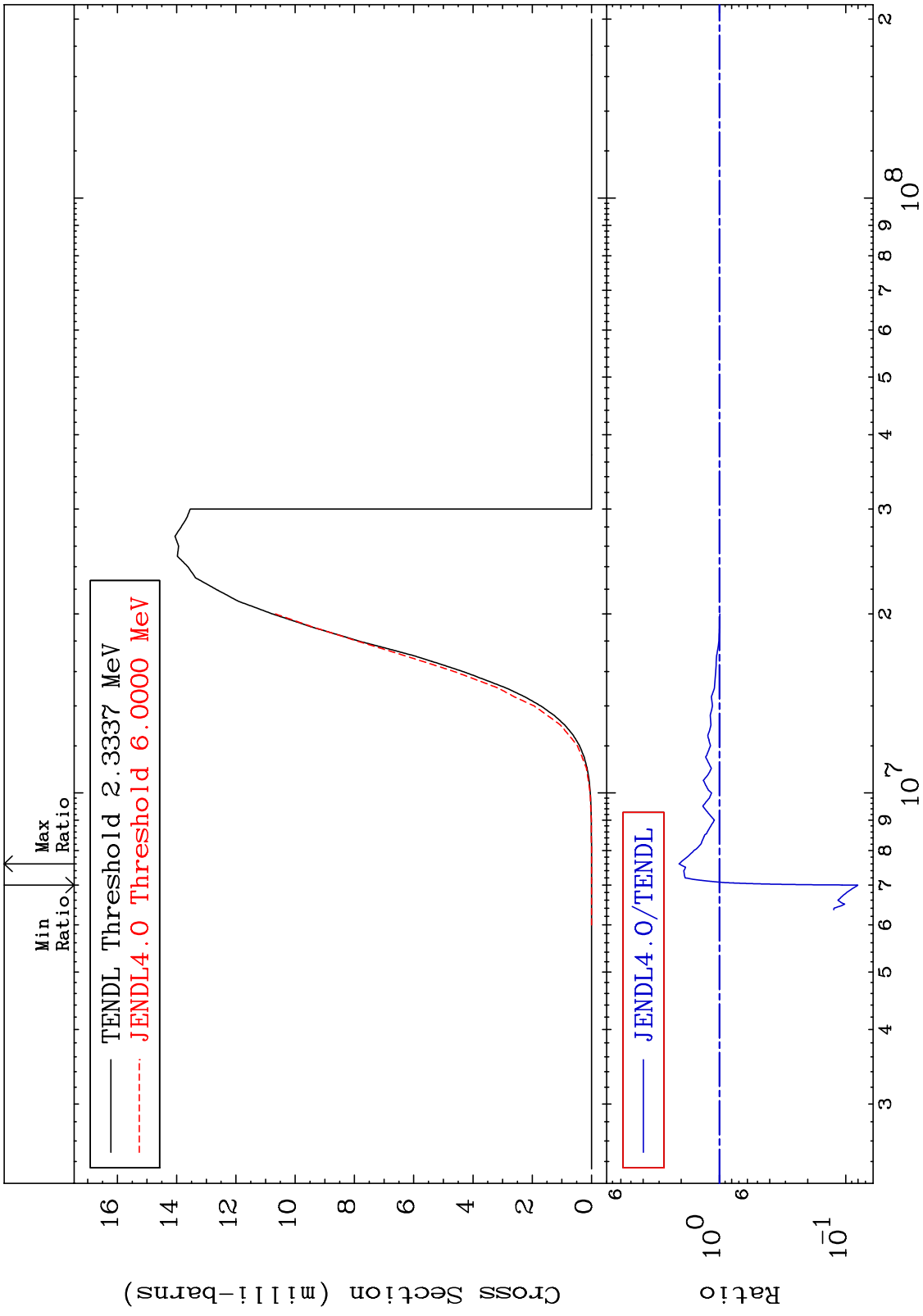
(n,  $\gamma$ )

72-Hf-180

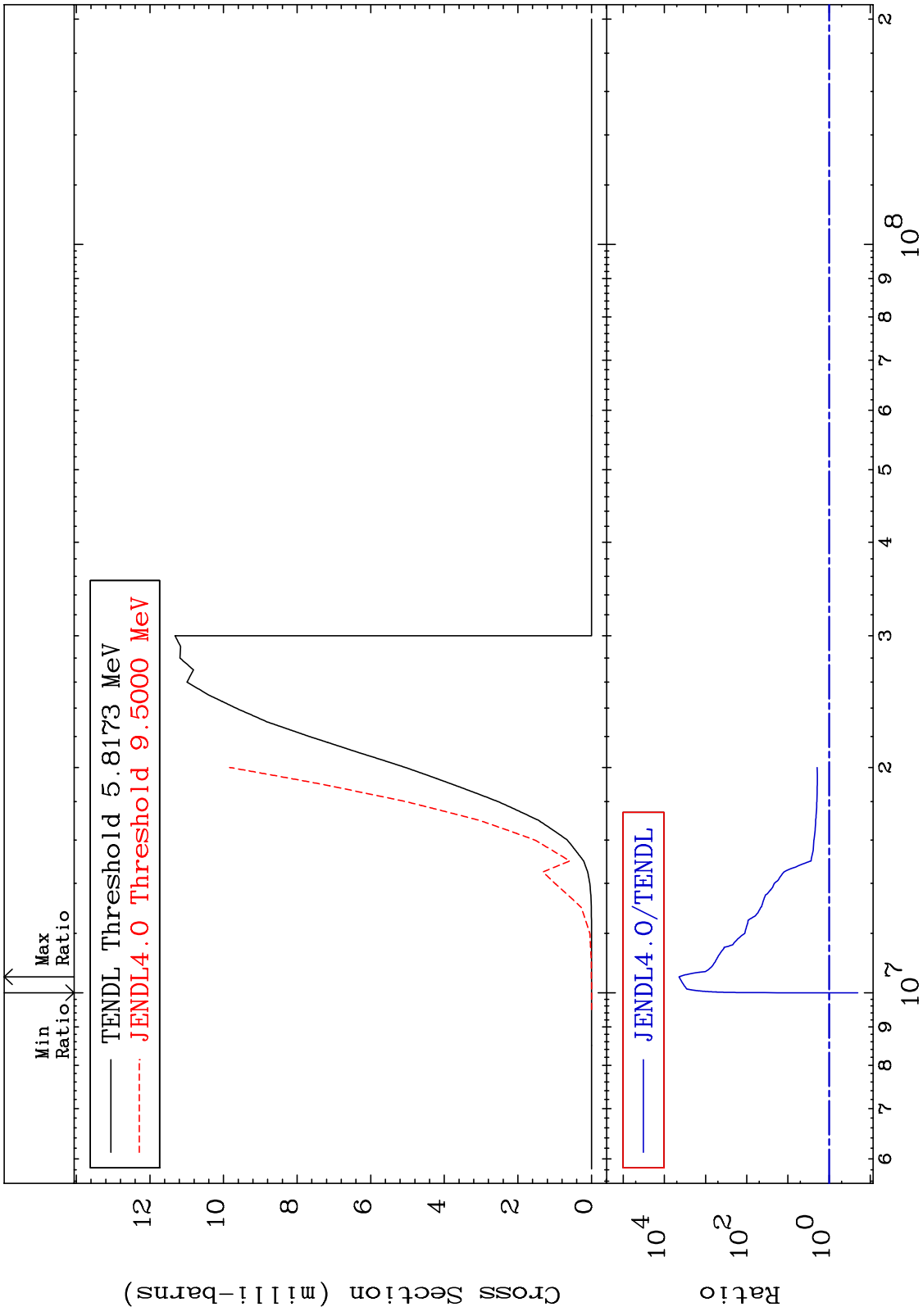
-99.92 To 9999. %

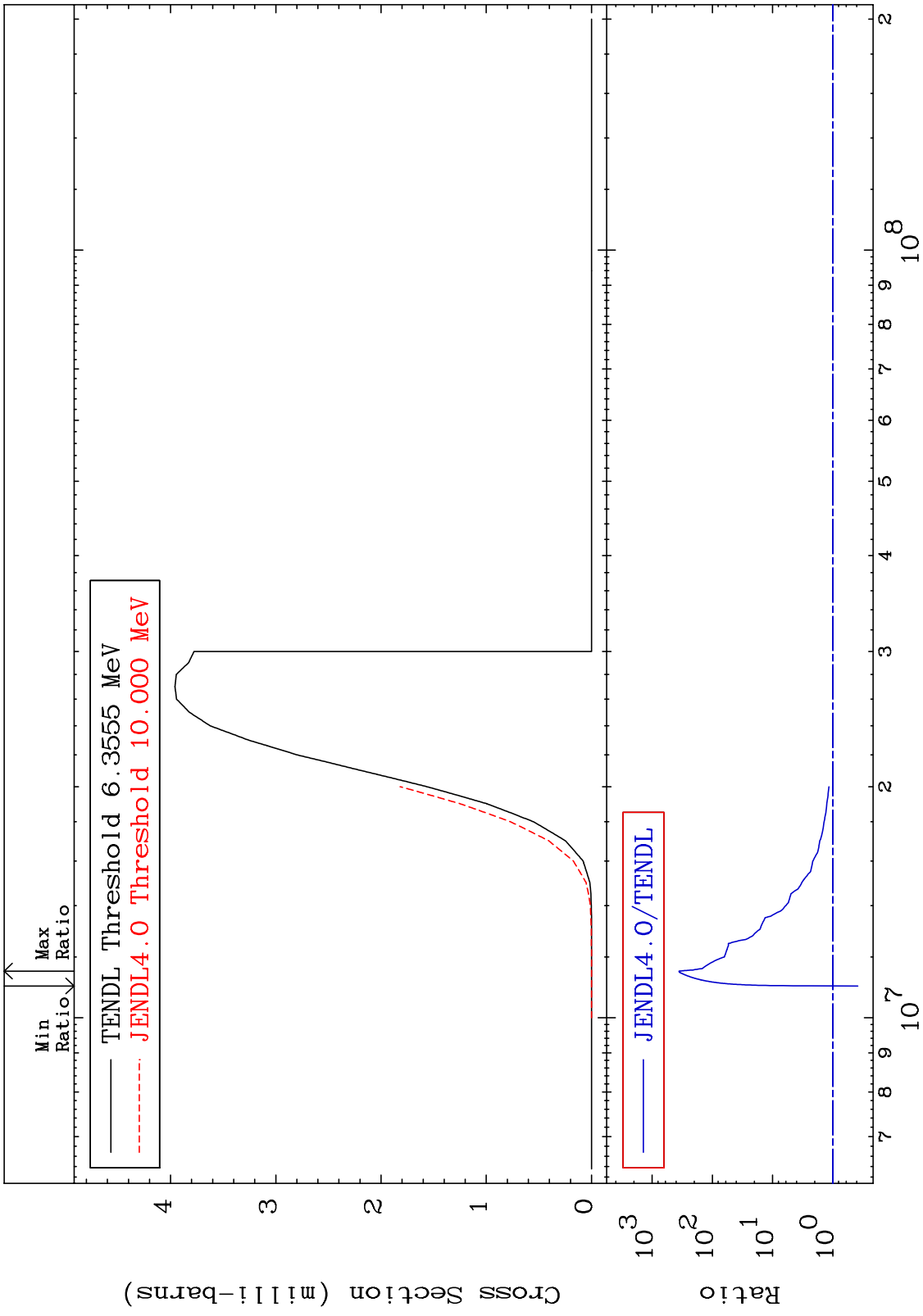
Cross Section



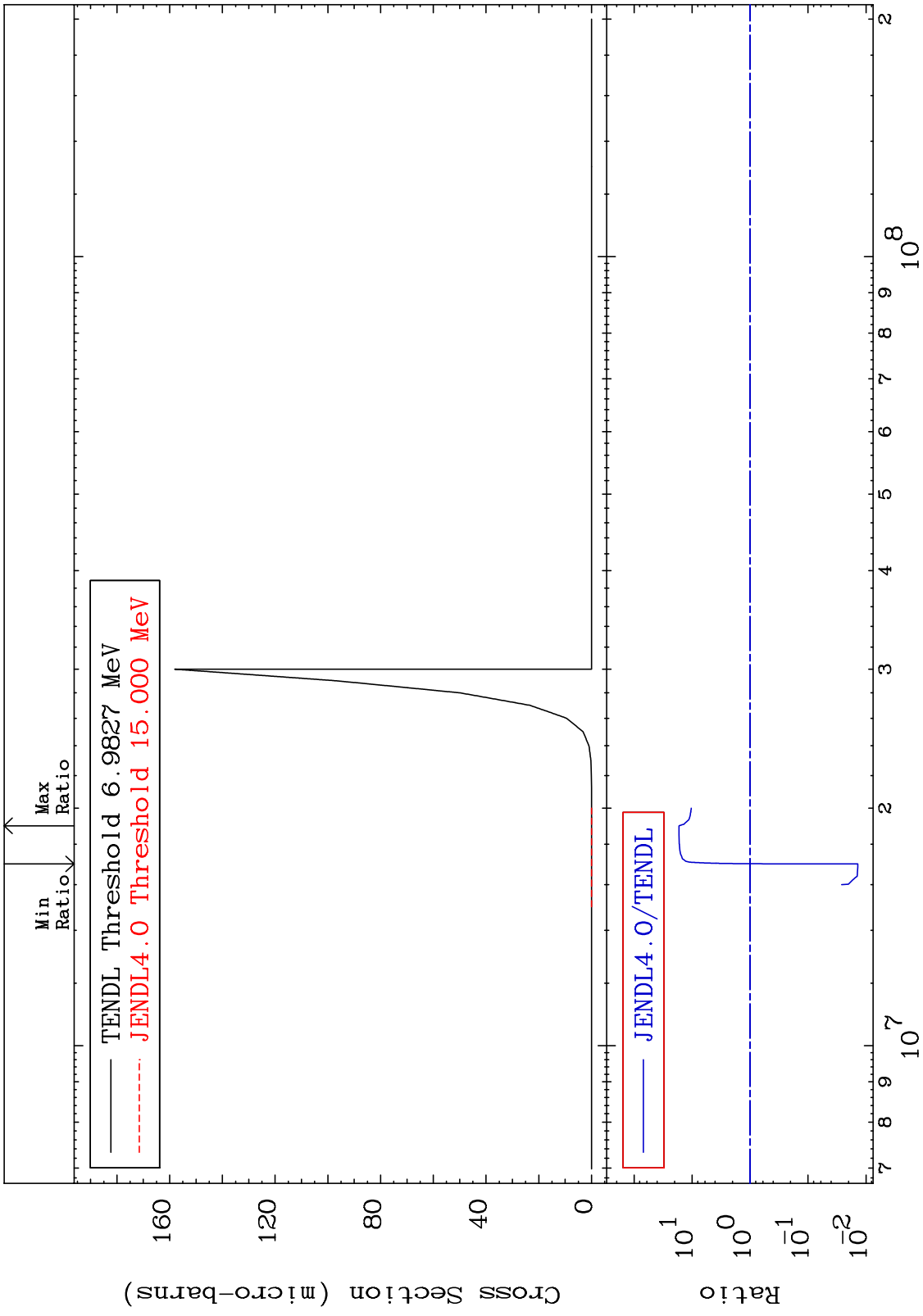


MAT 7243 (n,d) Cross Section 72-Hf-180  
 -79.93 To 9999. %

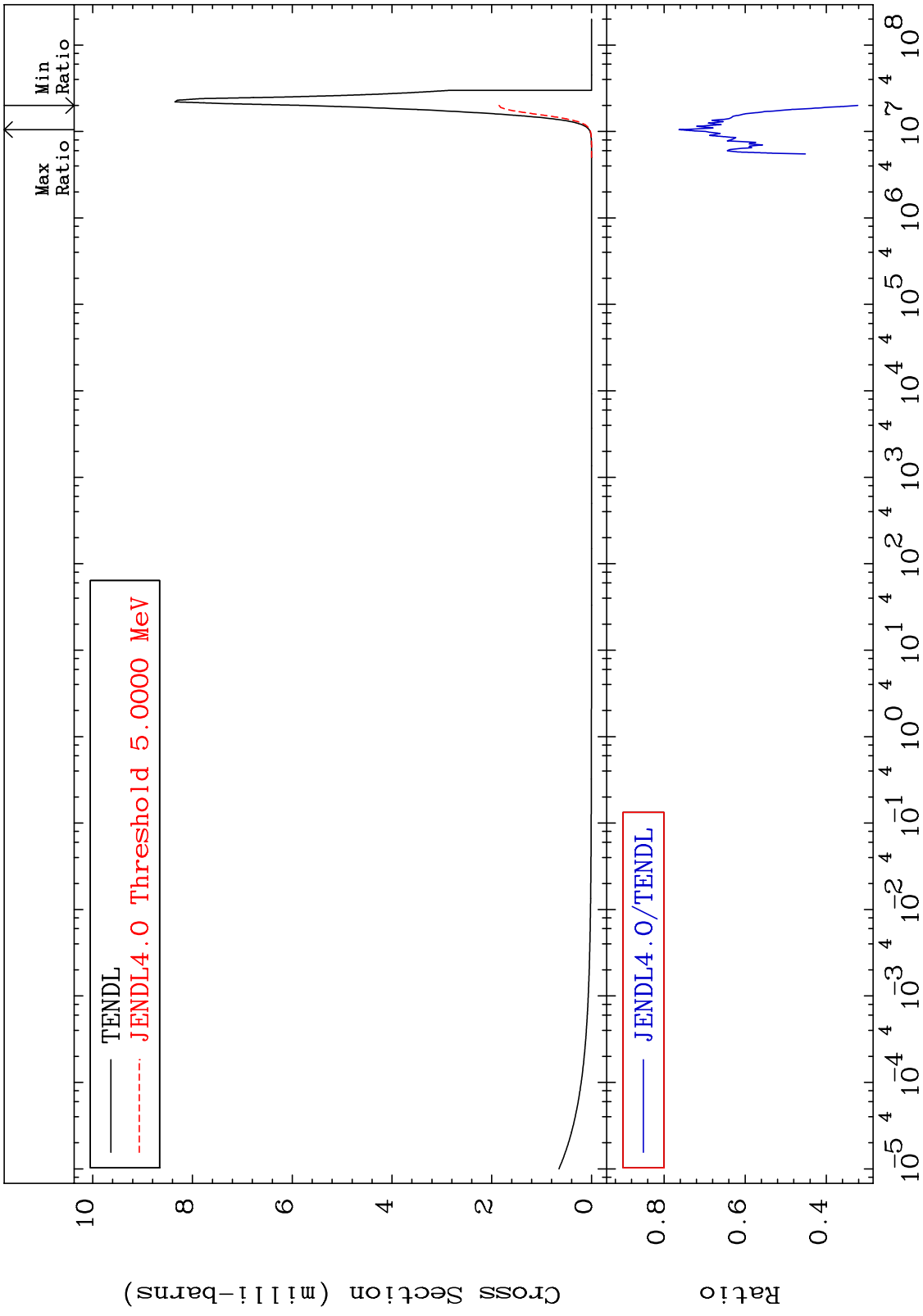




MAT 7243 (n,He-3) 72-Hf-180  
 Cross Section -98.62 To 1576. %



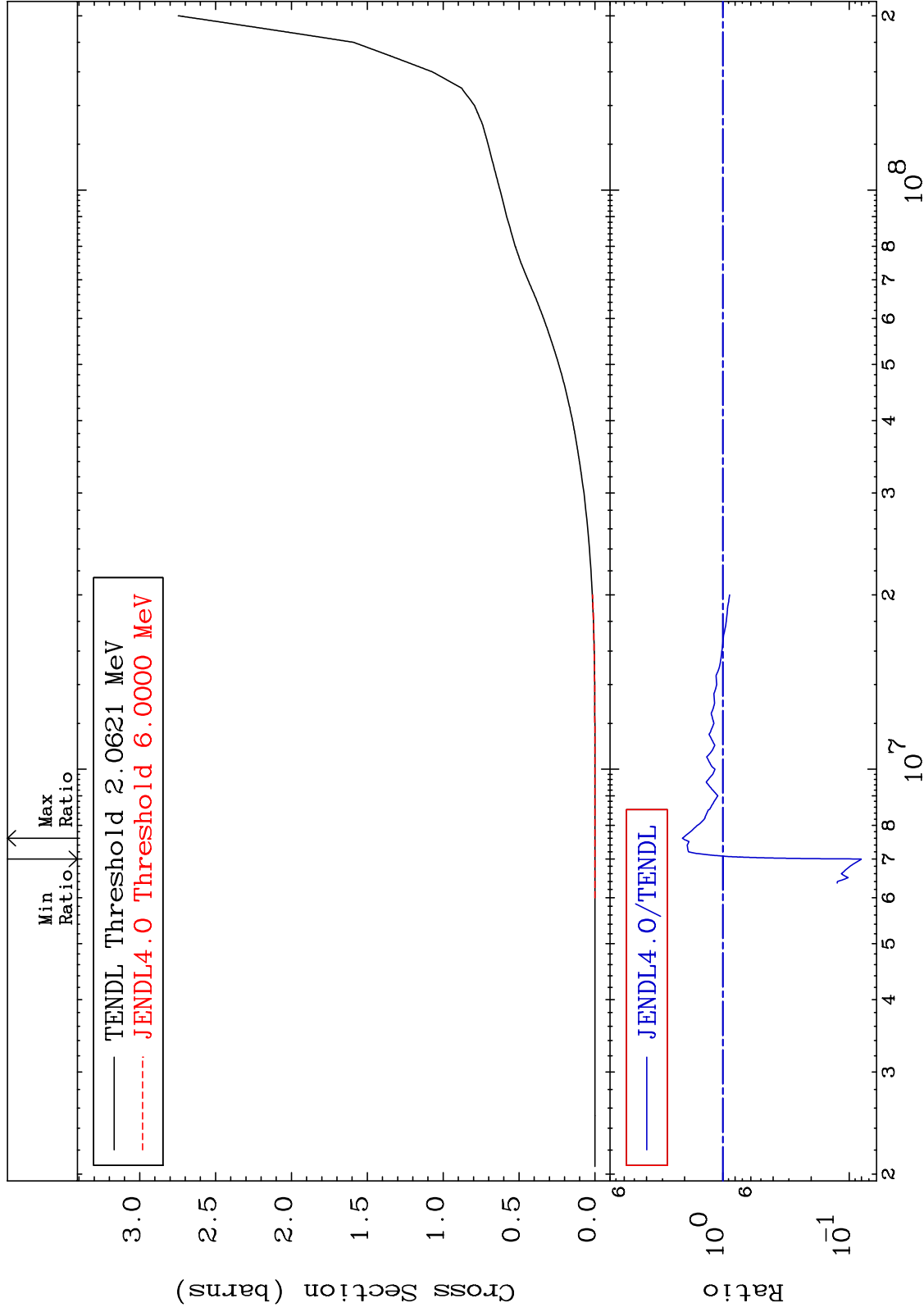
MAT 7243 (n,α) Cross Section 72-Hf-180  
 -67.79 To -23.70%



MAT 7243

Hydrogen Production  
Cross Section

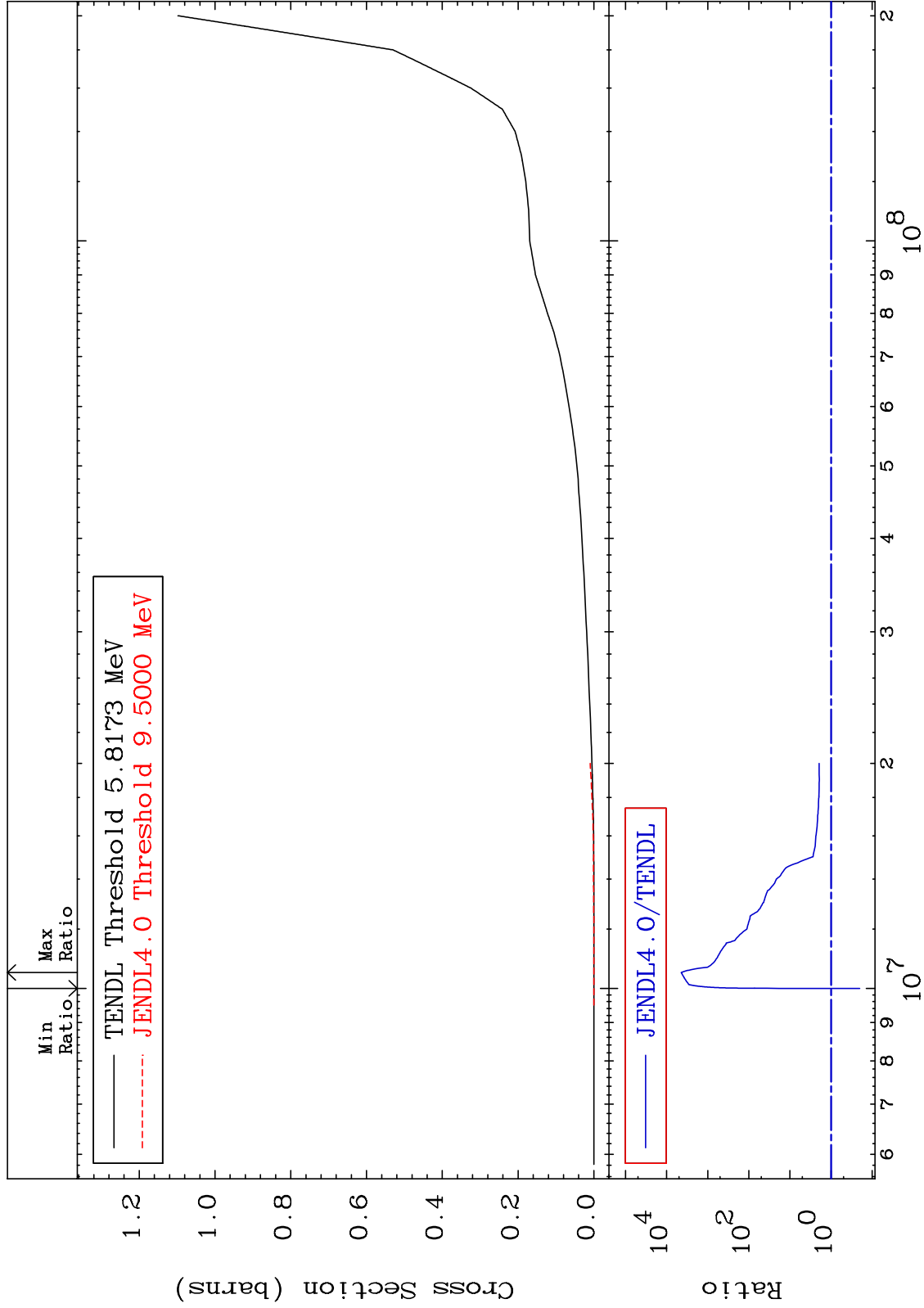
72-Hf-180  
-91.96 To 108.2 %



MAT 7243

Deuterium Production  
Cross Section

72-Hf-180  
-79.93 To 9999. %

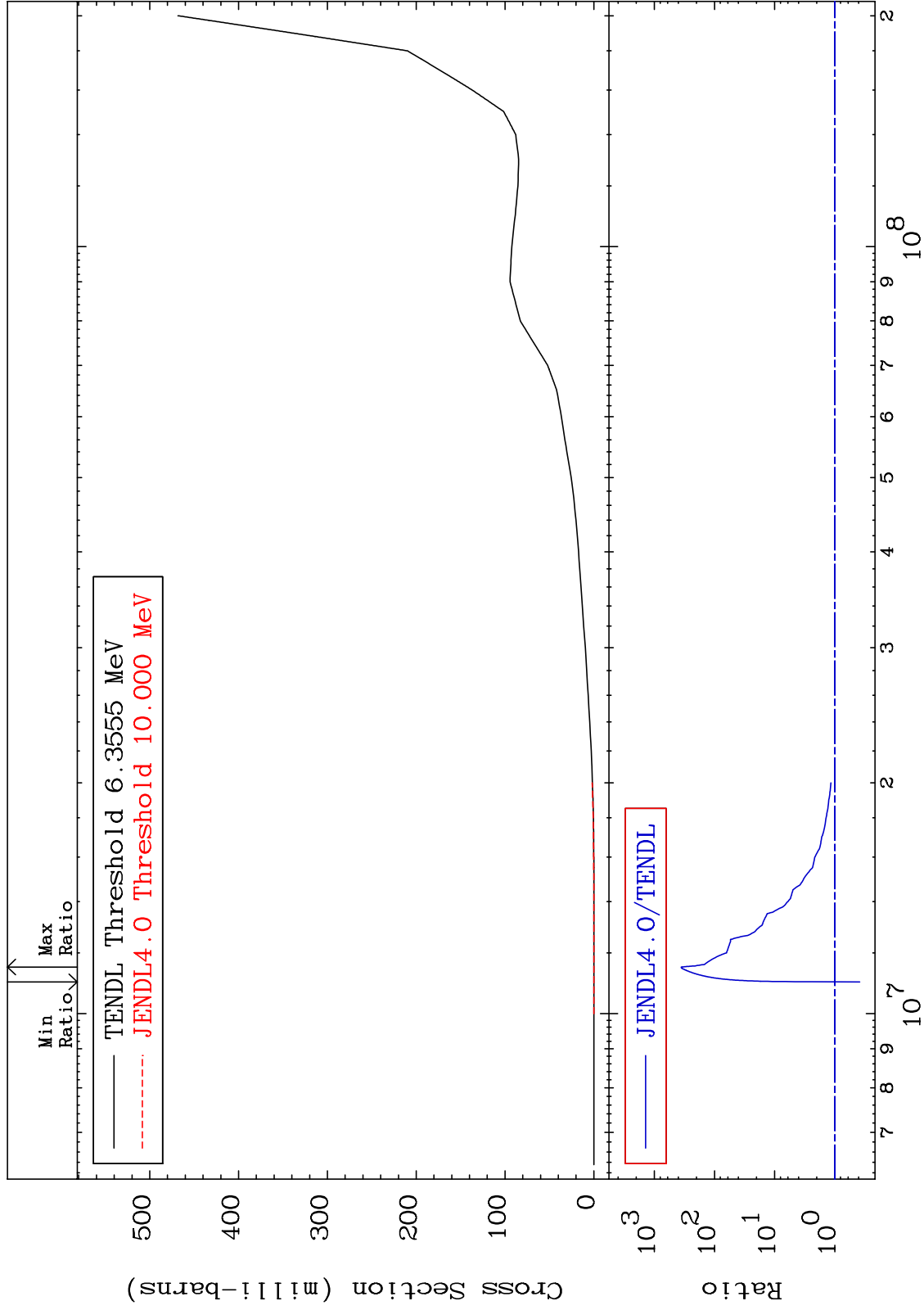




MAT 7243

Tritium Production  
Cross Section

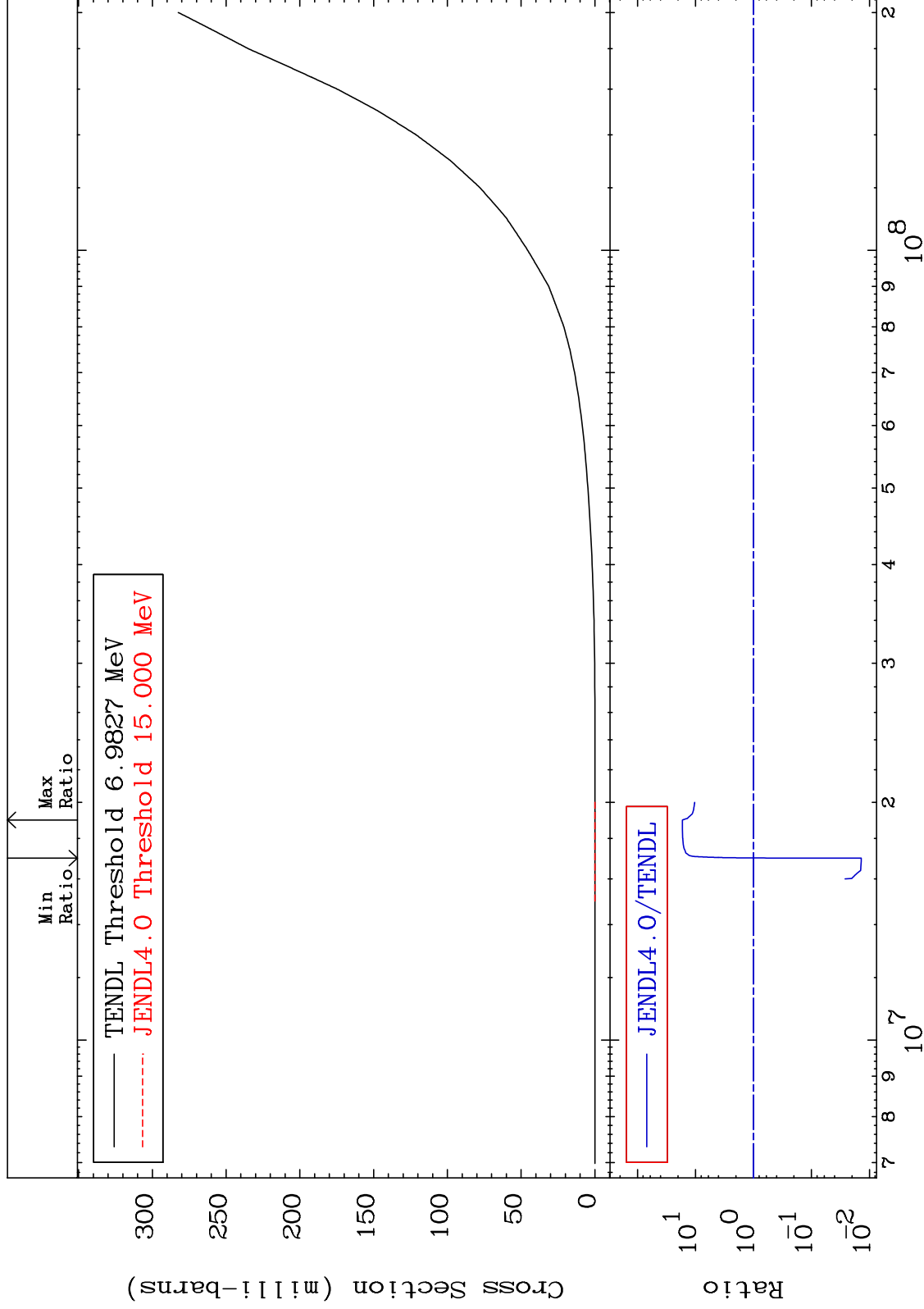
72-Hf-180  
-61.64 To 9999. %



MAT 7243

He-3 Production  
Cross Section

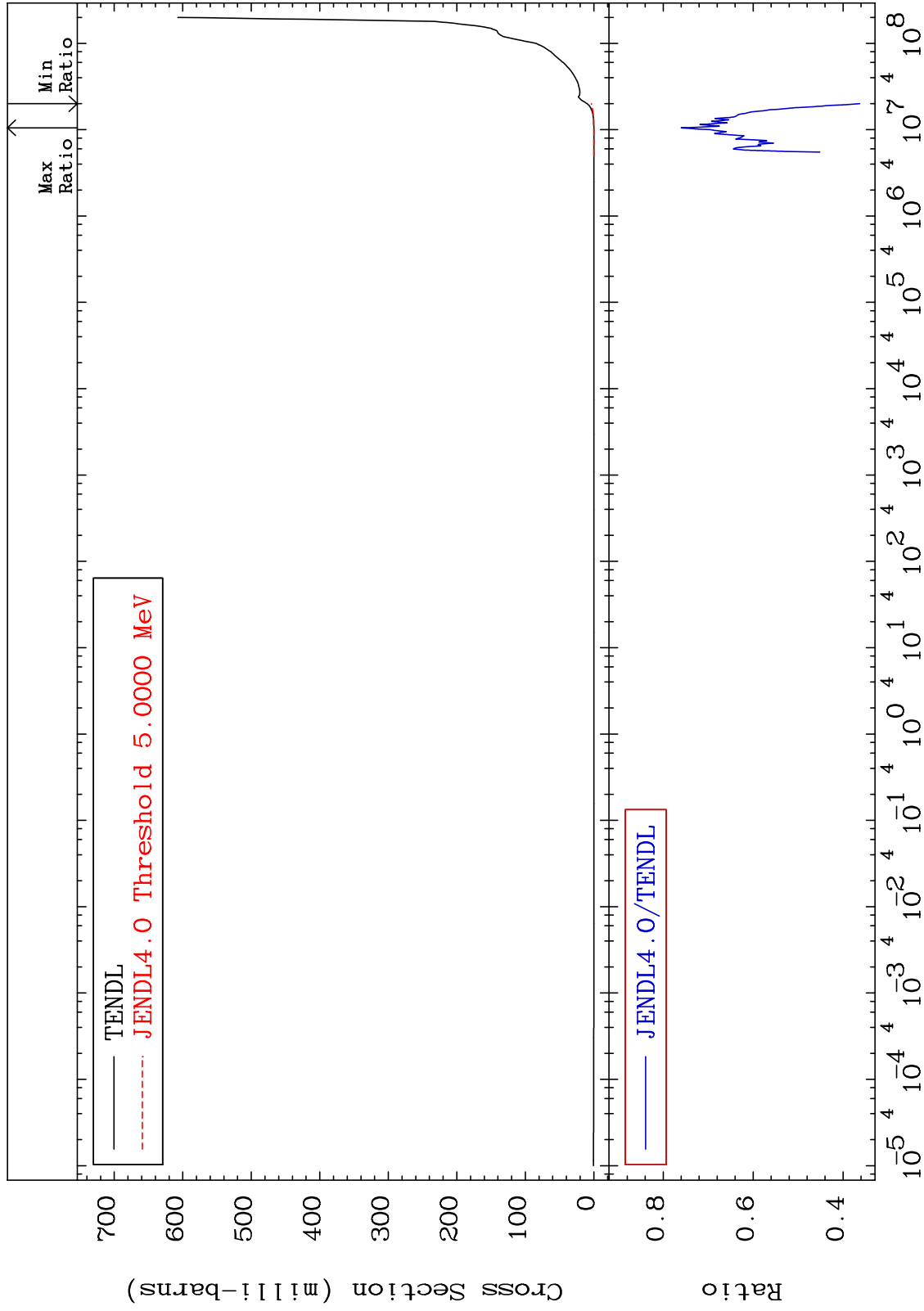
72-Hf-180  
-98.62 To 1576. %



MAT 7243

He-4 Production  
Cross Section

72-Hf-180  
-63.71 To -24.01%

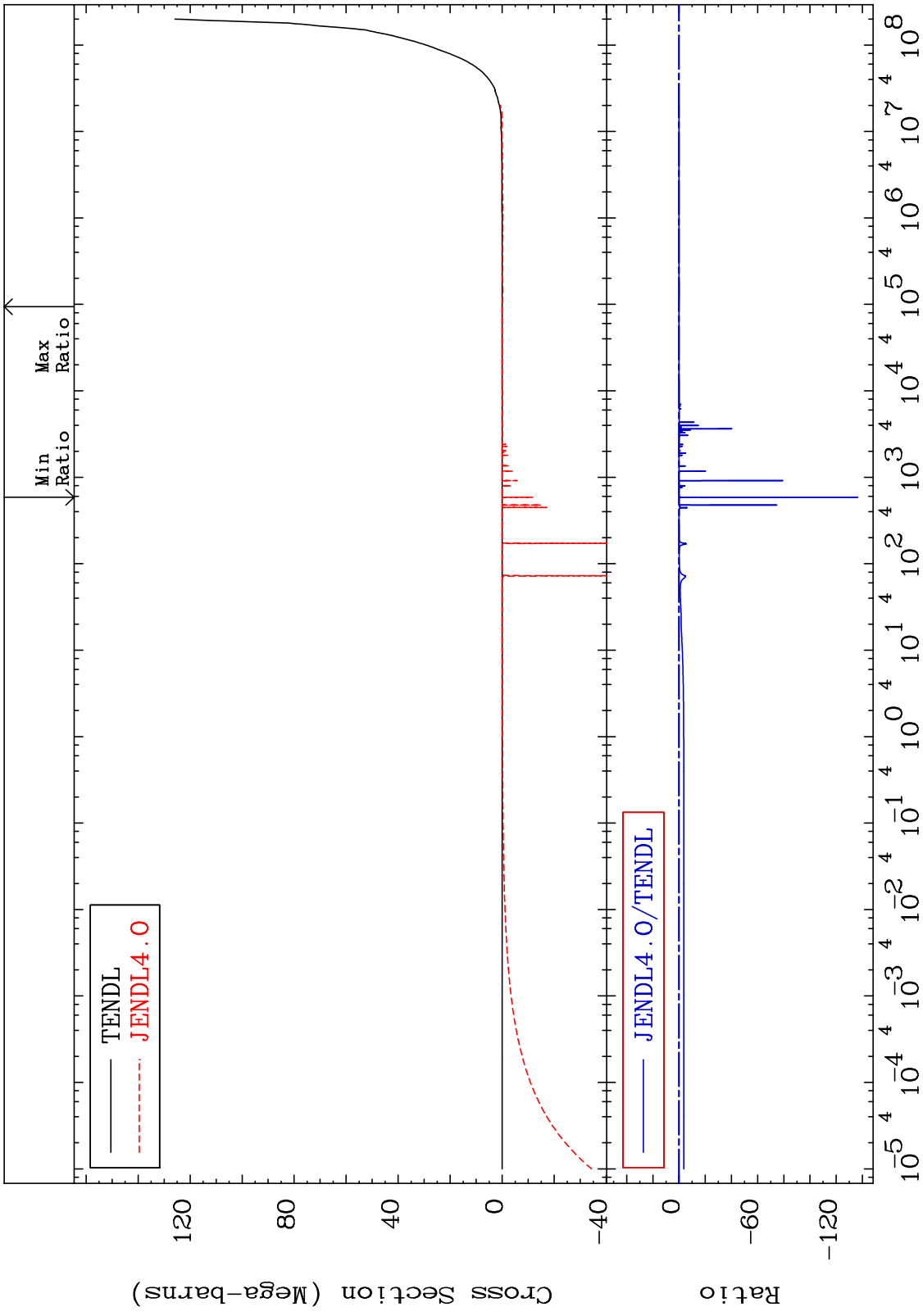


50

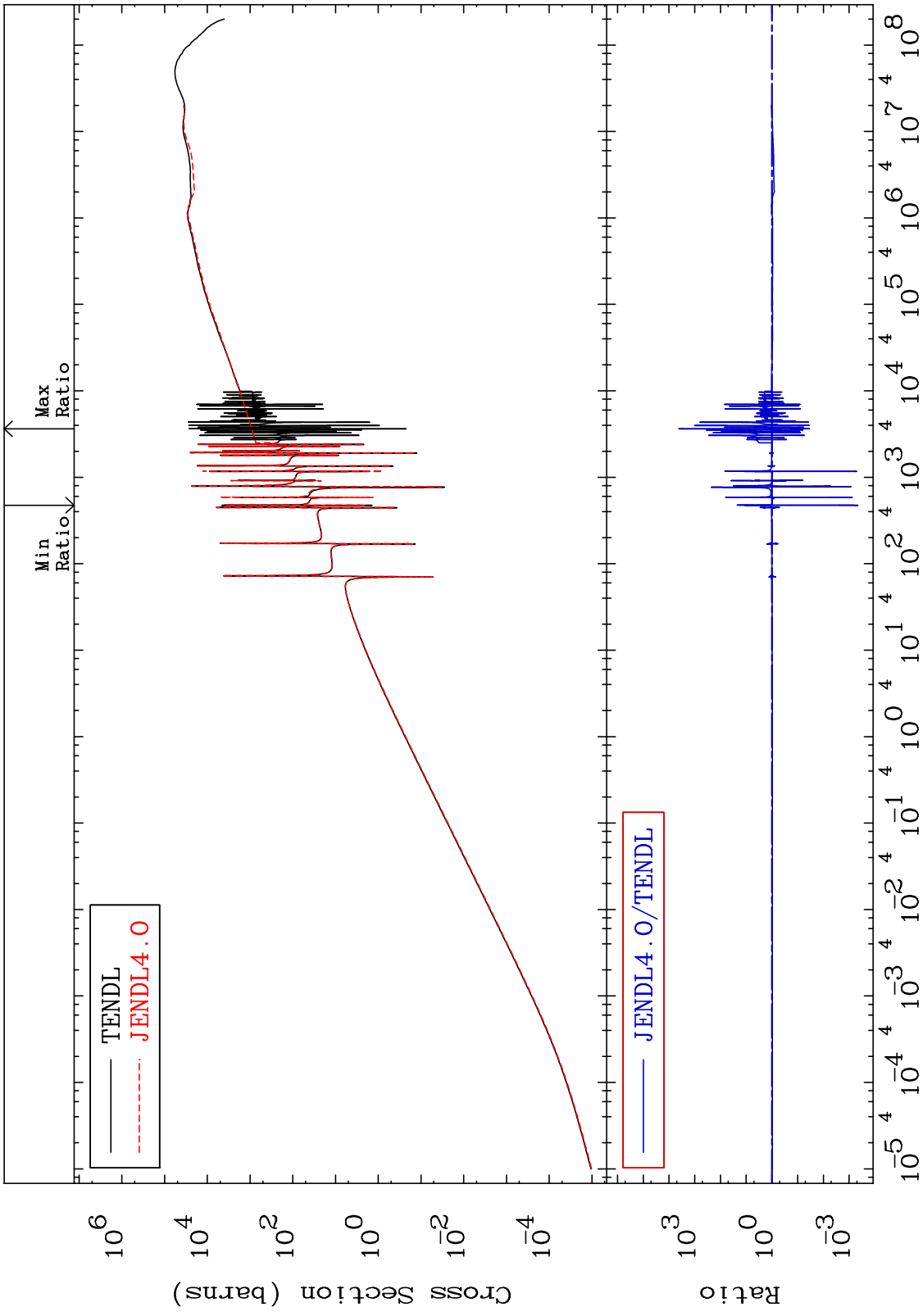
Incident Energy (eV)

72-Hf-180

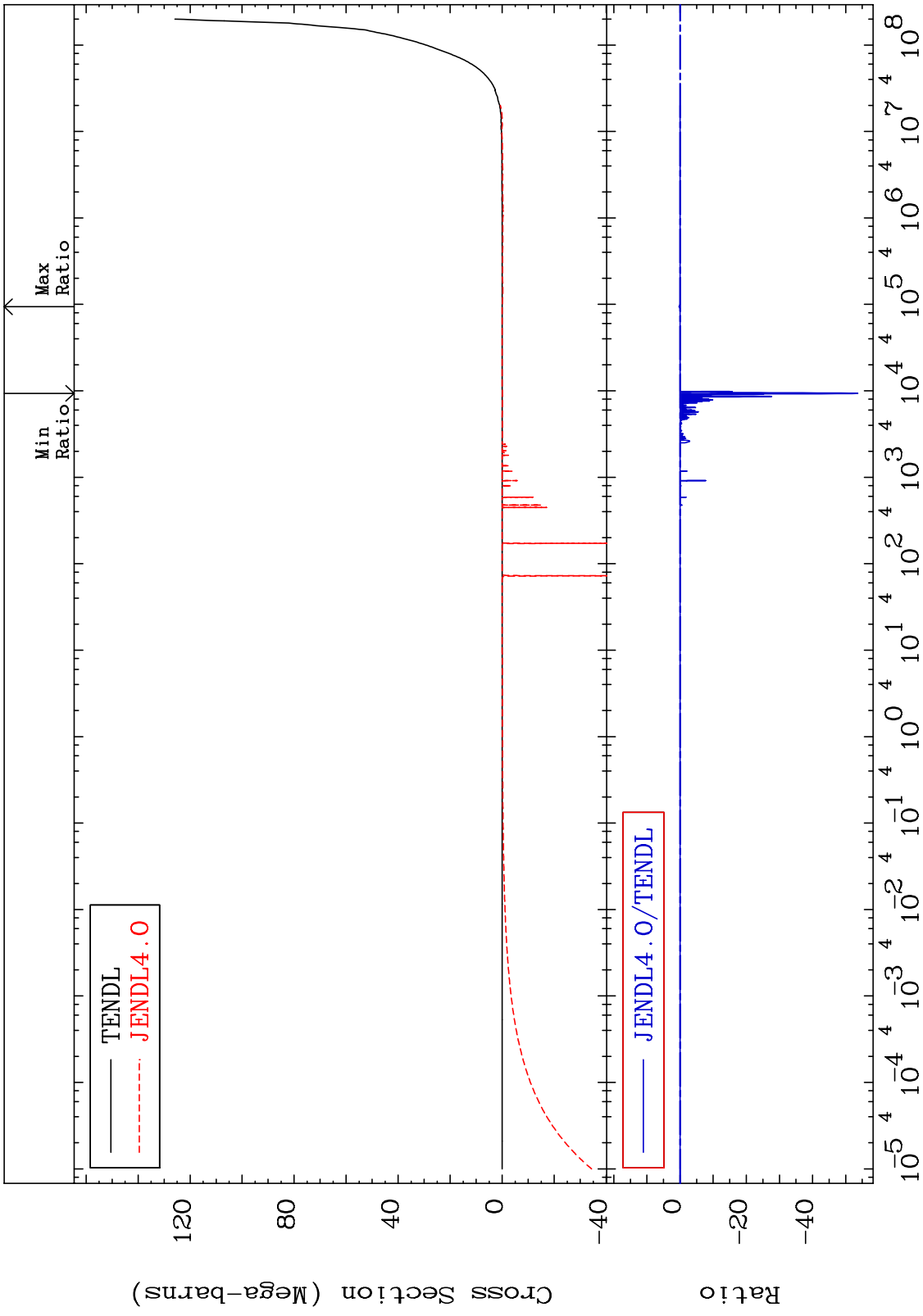
MAT 7243 Kerma total (eV-barns) 72-Hf-180  
 Cross Section -9999. To 1924. %



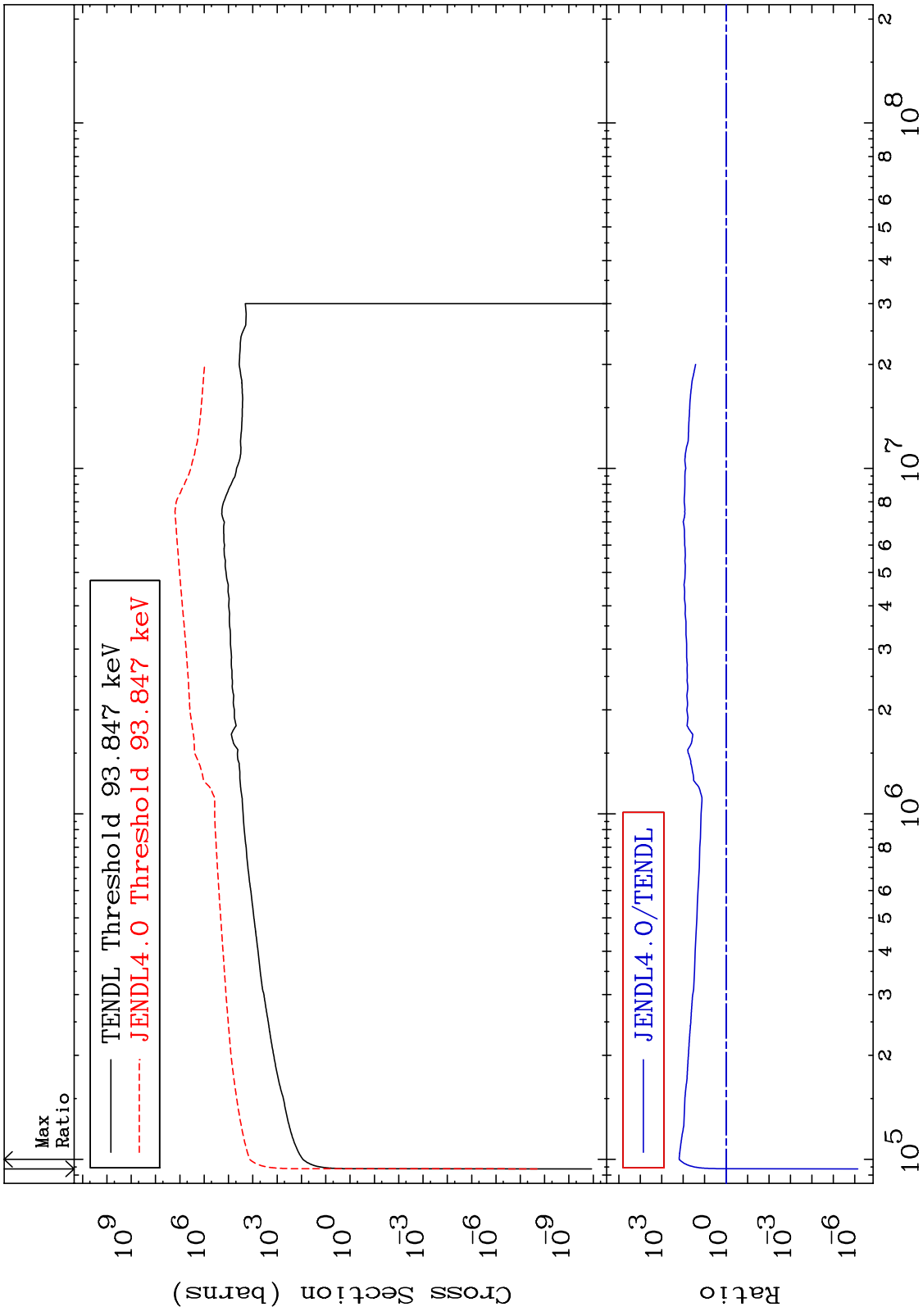
51 Incident Energy (eV) 72-Hf-180



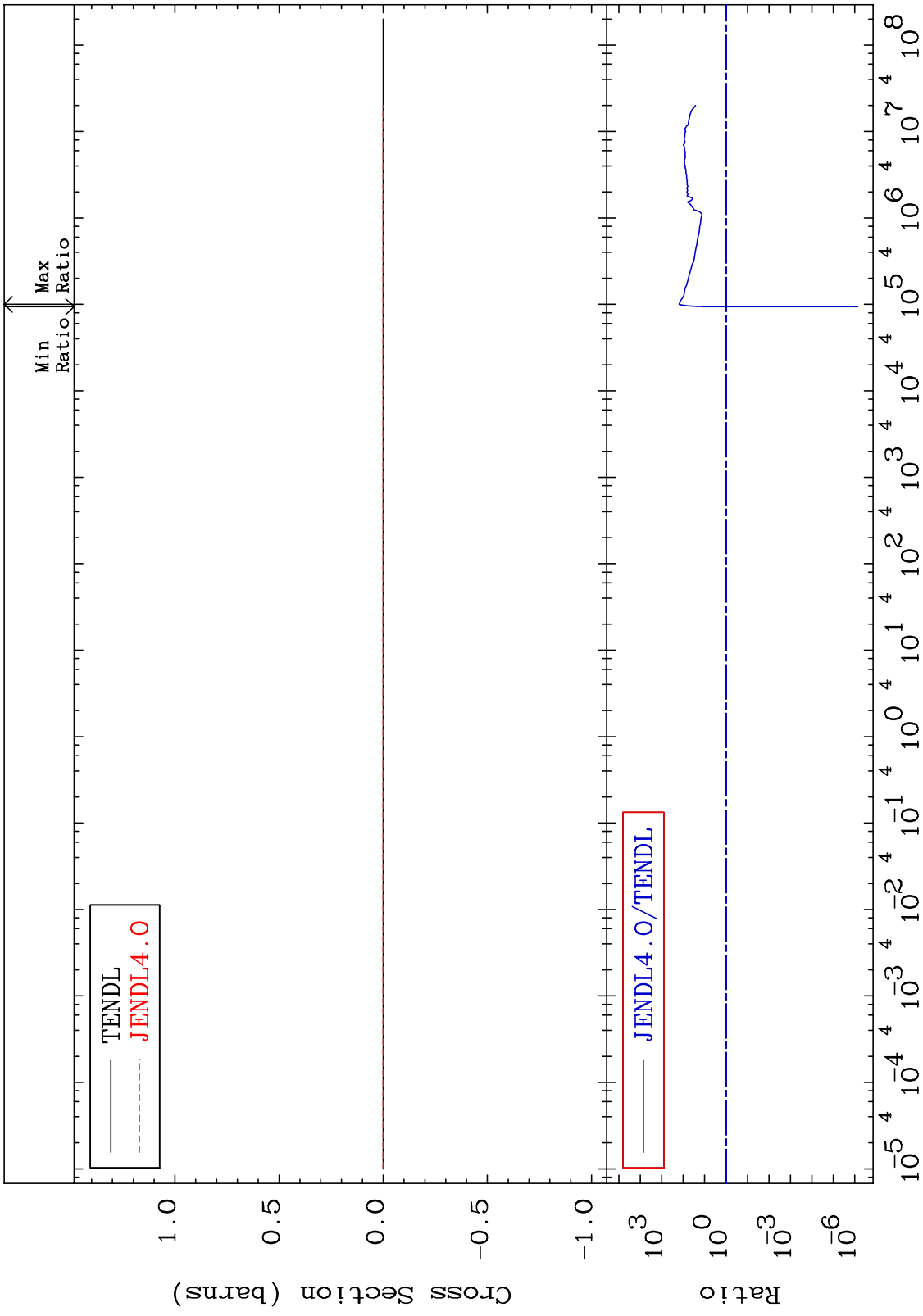
MAT 7243 Kerma non-elastic (all but mt2) 72-Hf-180  
 Cross Section -9999. To 9999. %



MAT 7243 Kerma inelastic (mt51-91) 72-Hf-180  
 Cross Section -100.0 To 9999. %

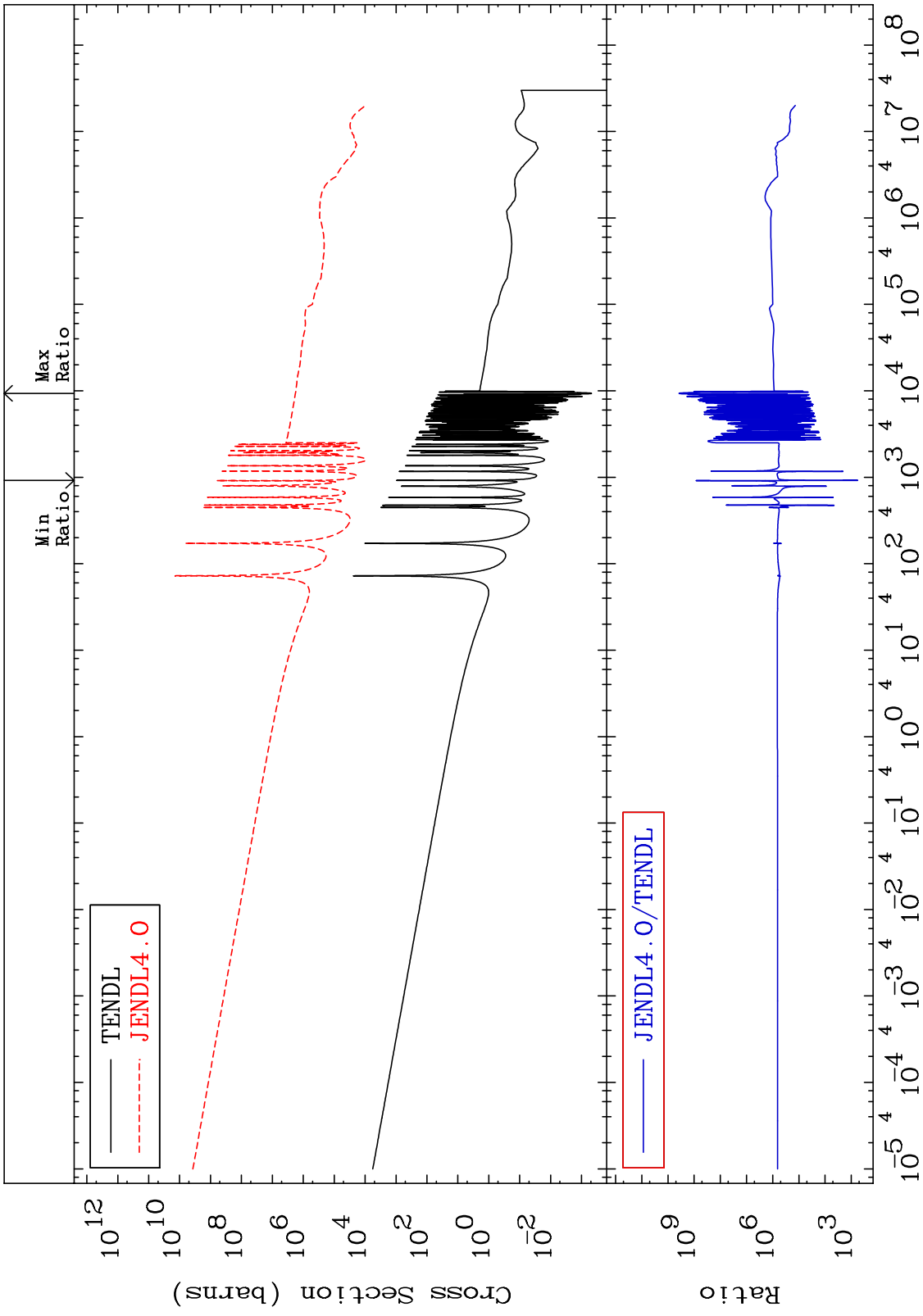


MAT 7243 Kerma fission (mt18 or mt19-20-21-38) 72-Hf-180  
 Cross Section -100.0 To 9999. %

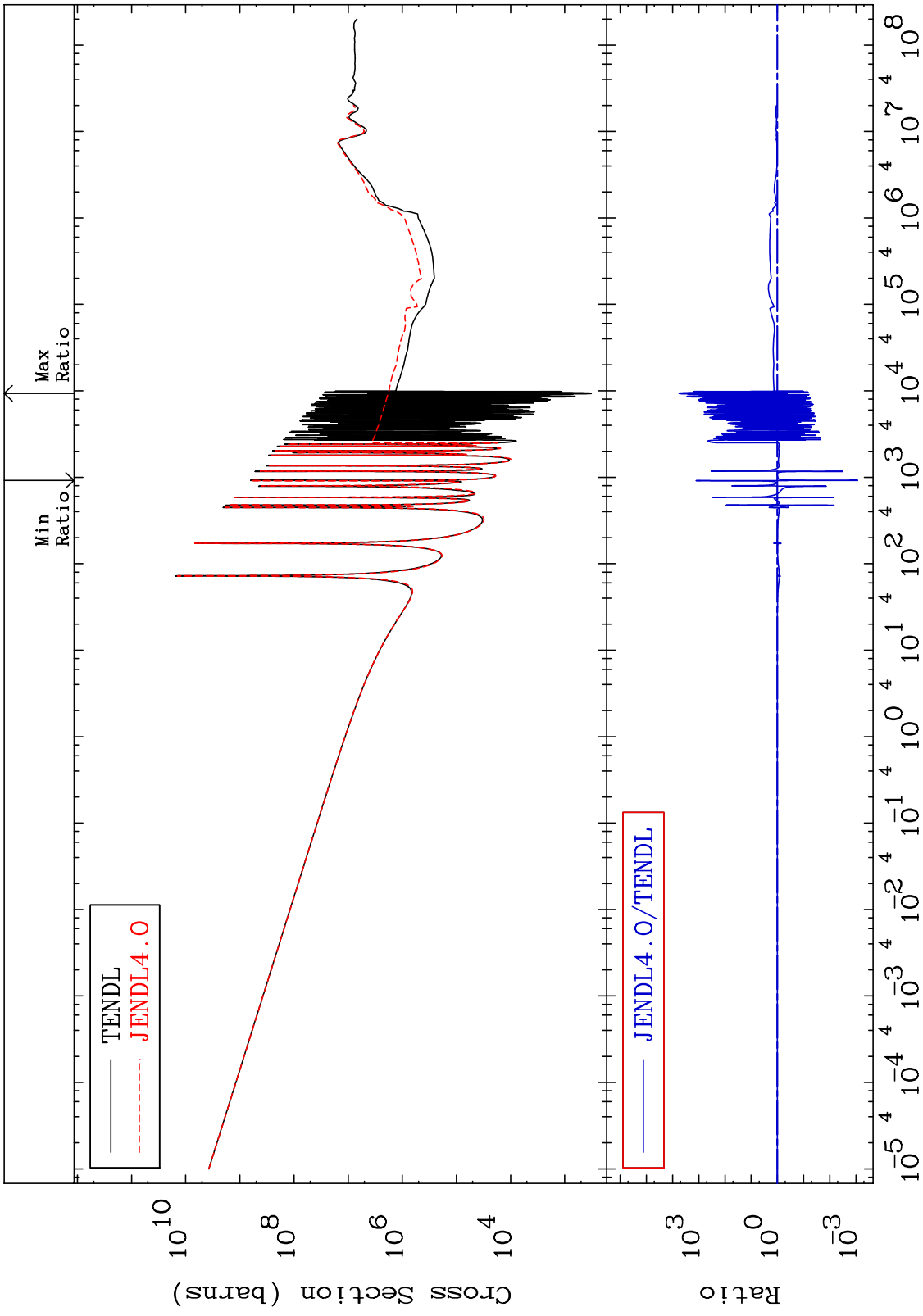




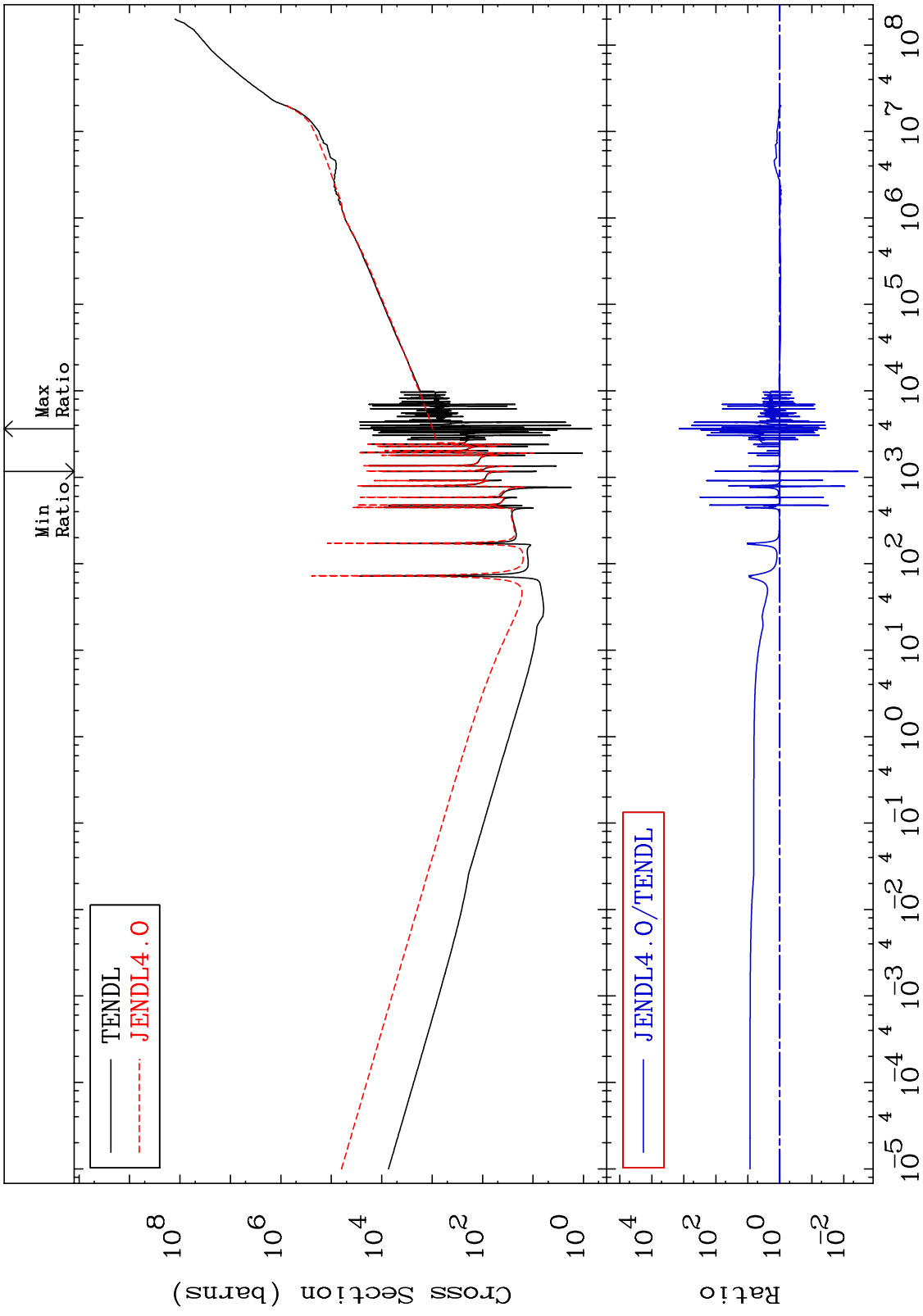
MAT 7243 Kerma capture (mt102) 72-Hf-180  
 Cross Section 9999. To 9999. %



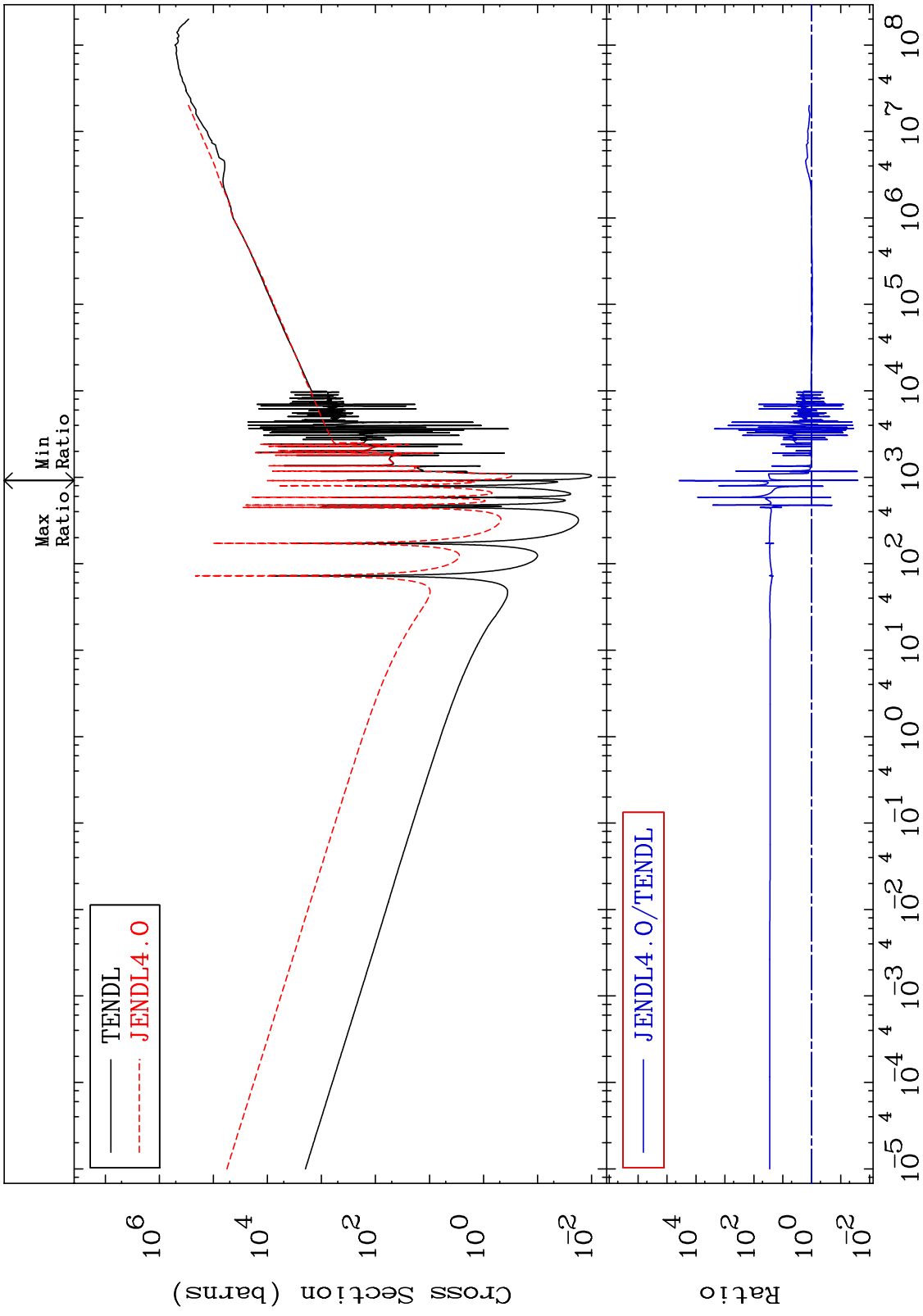
MAT 7243 72-Hf-180  
 Total photon (eV-barns) -99.91 To 9999. %  
 Cross Section



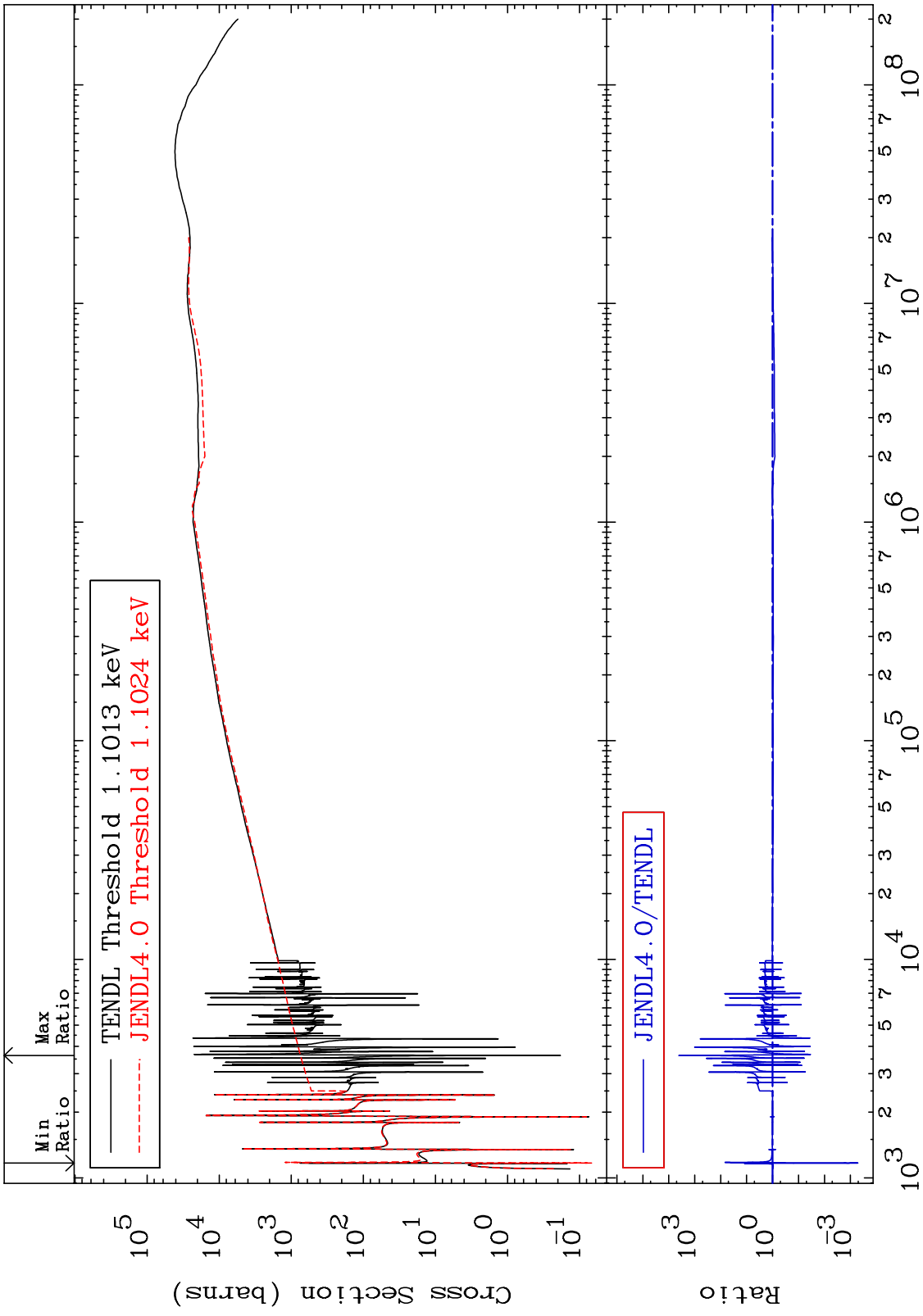
MAT 7243      Total kinematic kerma (high limit)      72-Hf-180  
 Cross Section      -99.63 To 9999. %



MAT 7243      Dpa total (eV-barns)      72-Hf-180  
 Cross Section      -97.45 To 9999. %

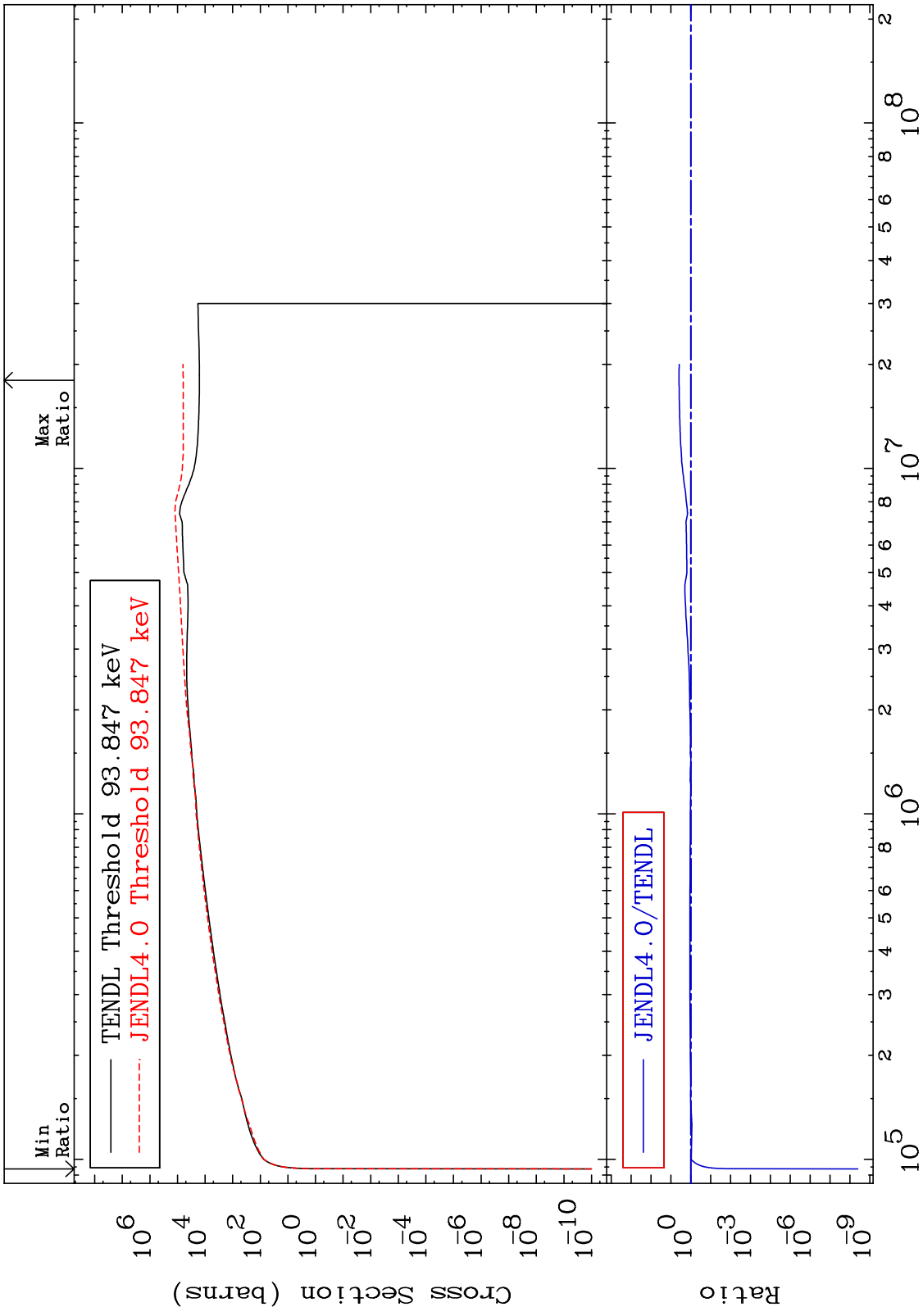


MAT 7243      Dpa elastic (mt2)      72-Hf-180  
Cross Section      -99.95 To 9999. %

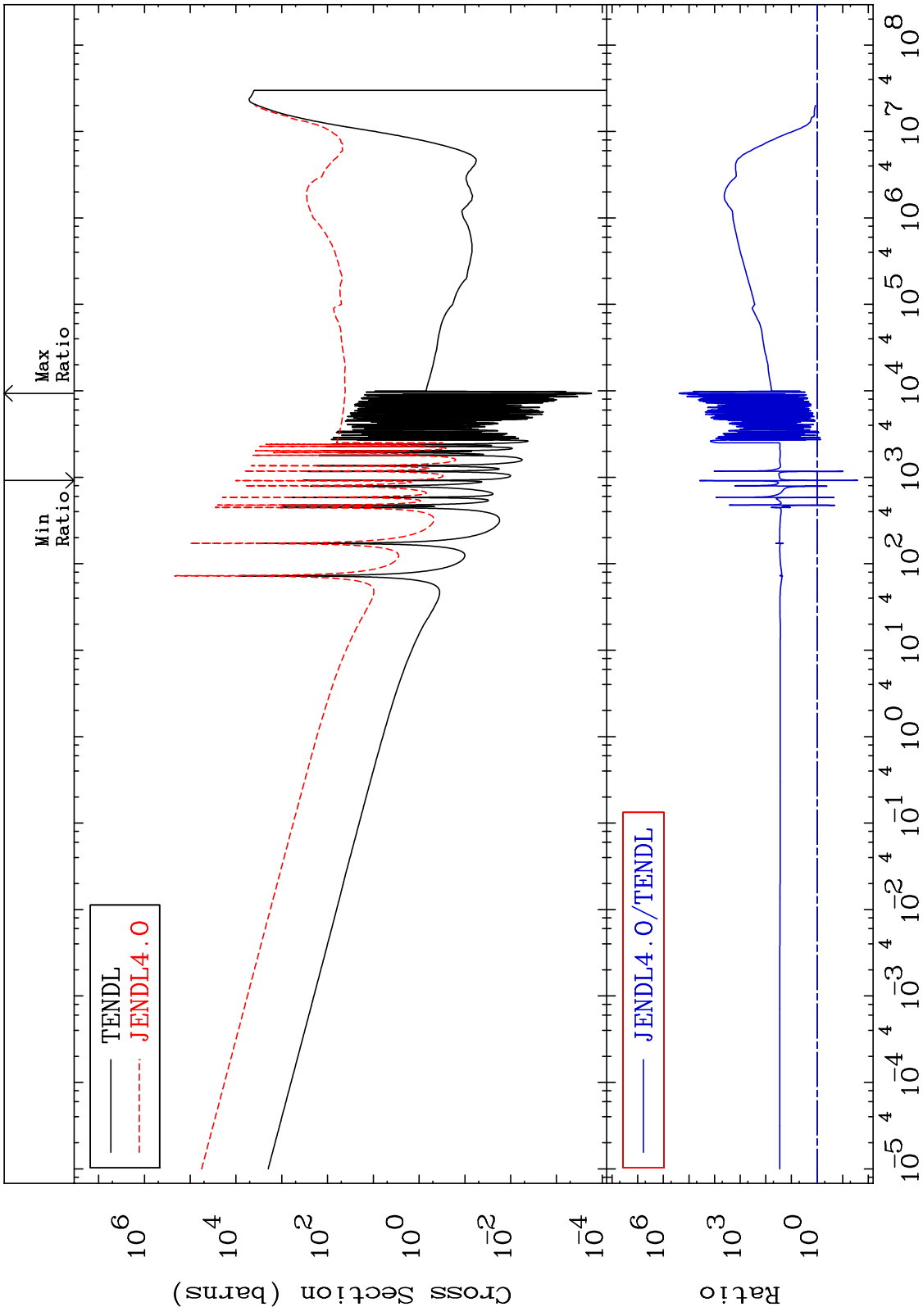


60      72-Hf-180

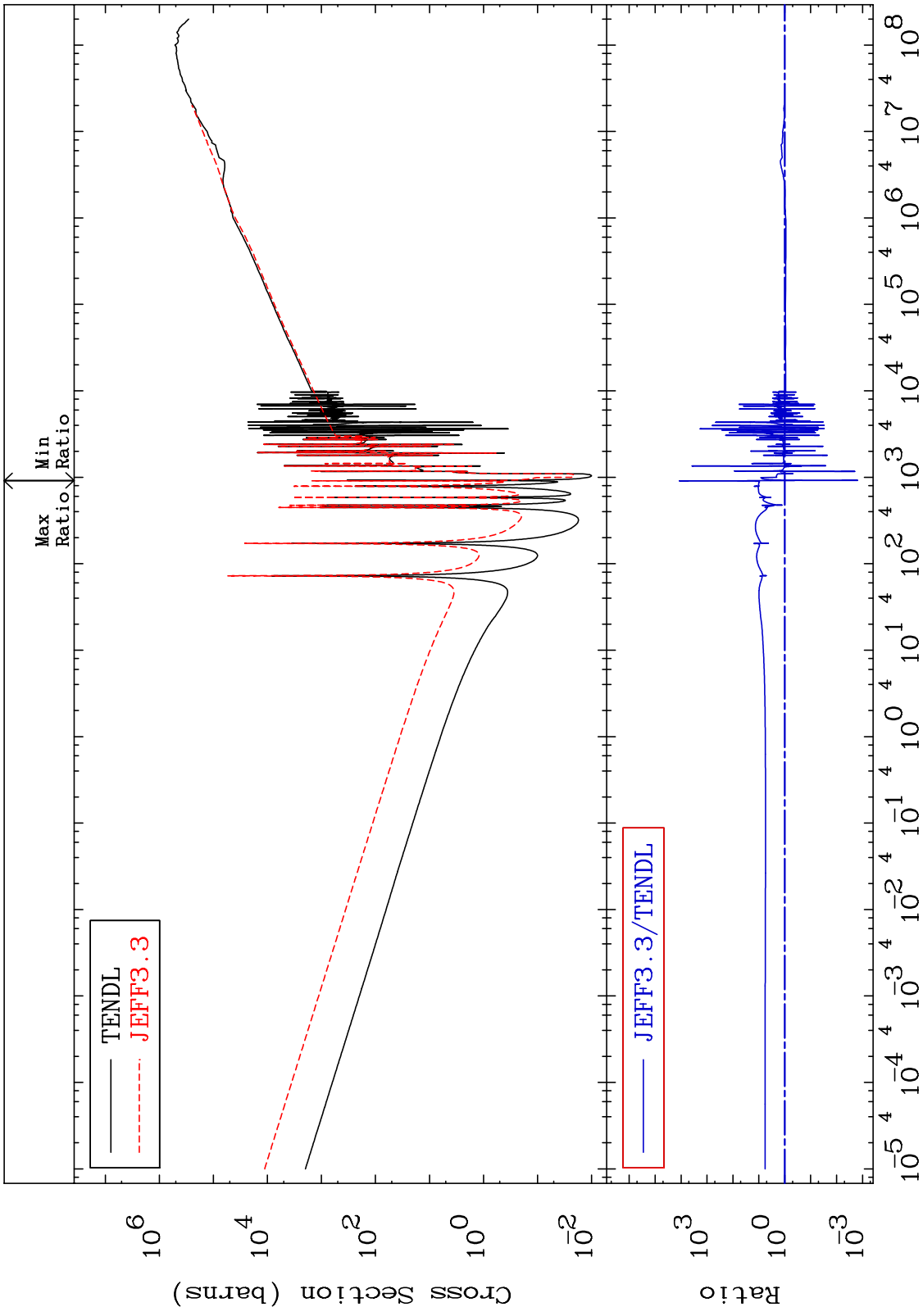
MAT 7243      Dpa inelastic (mt51-91)      72-Hf-180  
 Cross Section      -100.0 To 290.4 %



MAT 7243      Dpa disappearance (mt102 -120)      72-Hf-180  
 Cross Section      -97.45 To 9999. %

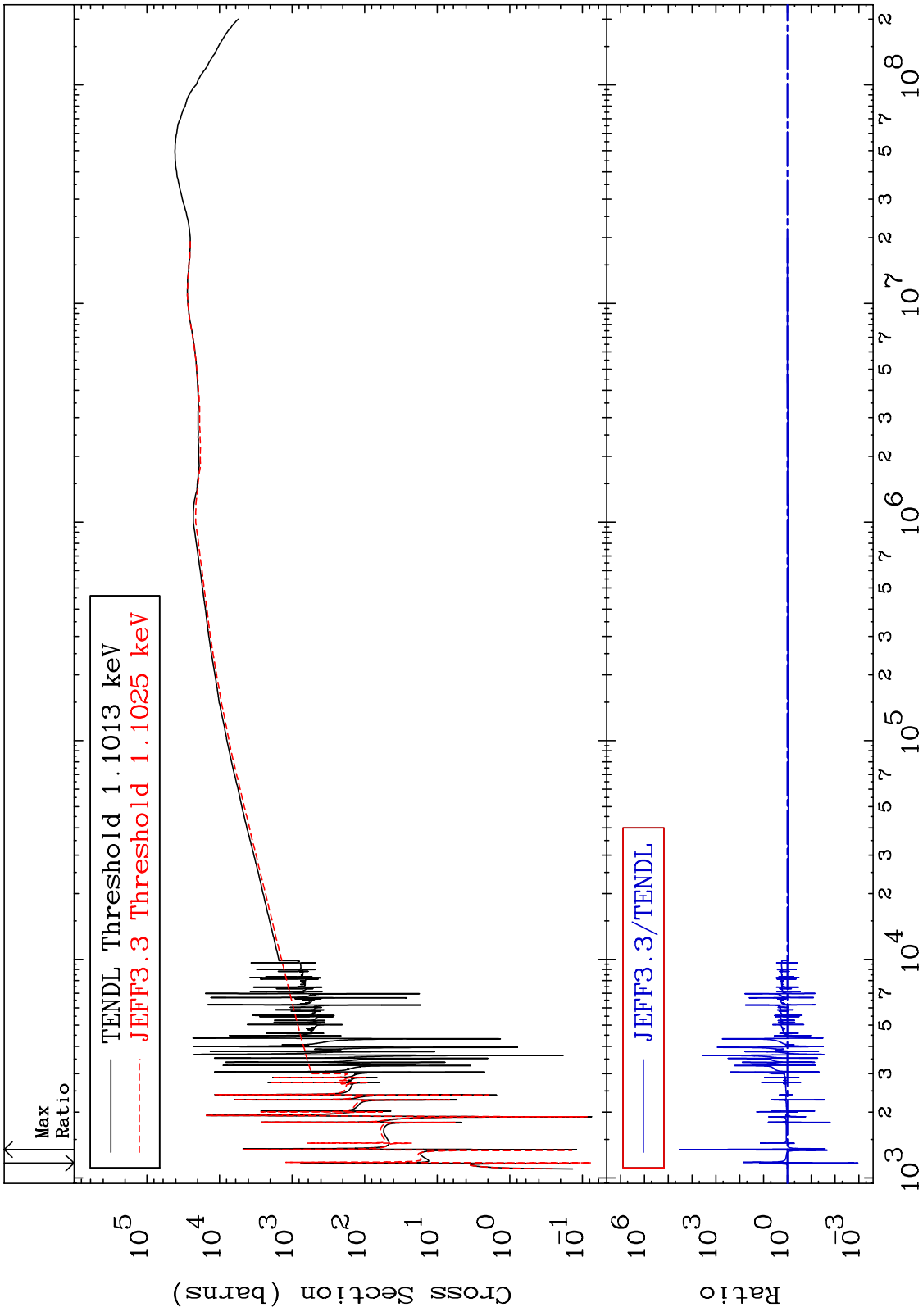


MAT 7243      Dpa total (eV-barns)      72-Hf-180  
 Cross Section      -99.85 To 9999. %

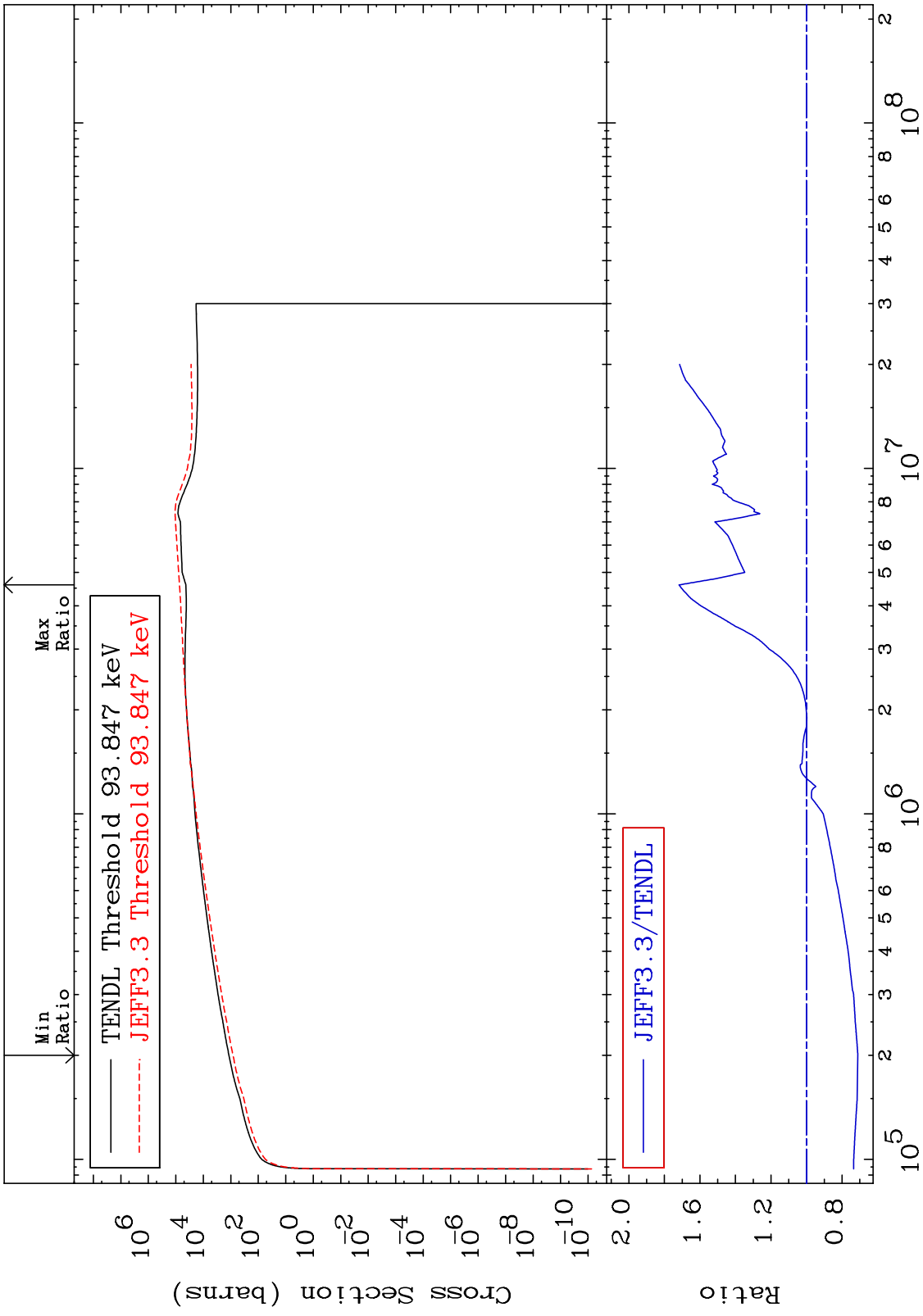




MAT 7243      Dpa elastic (mt2)      72-Hf-180  
Cross Section      -99.89 To 9999. %

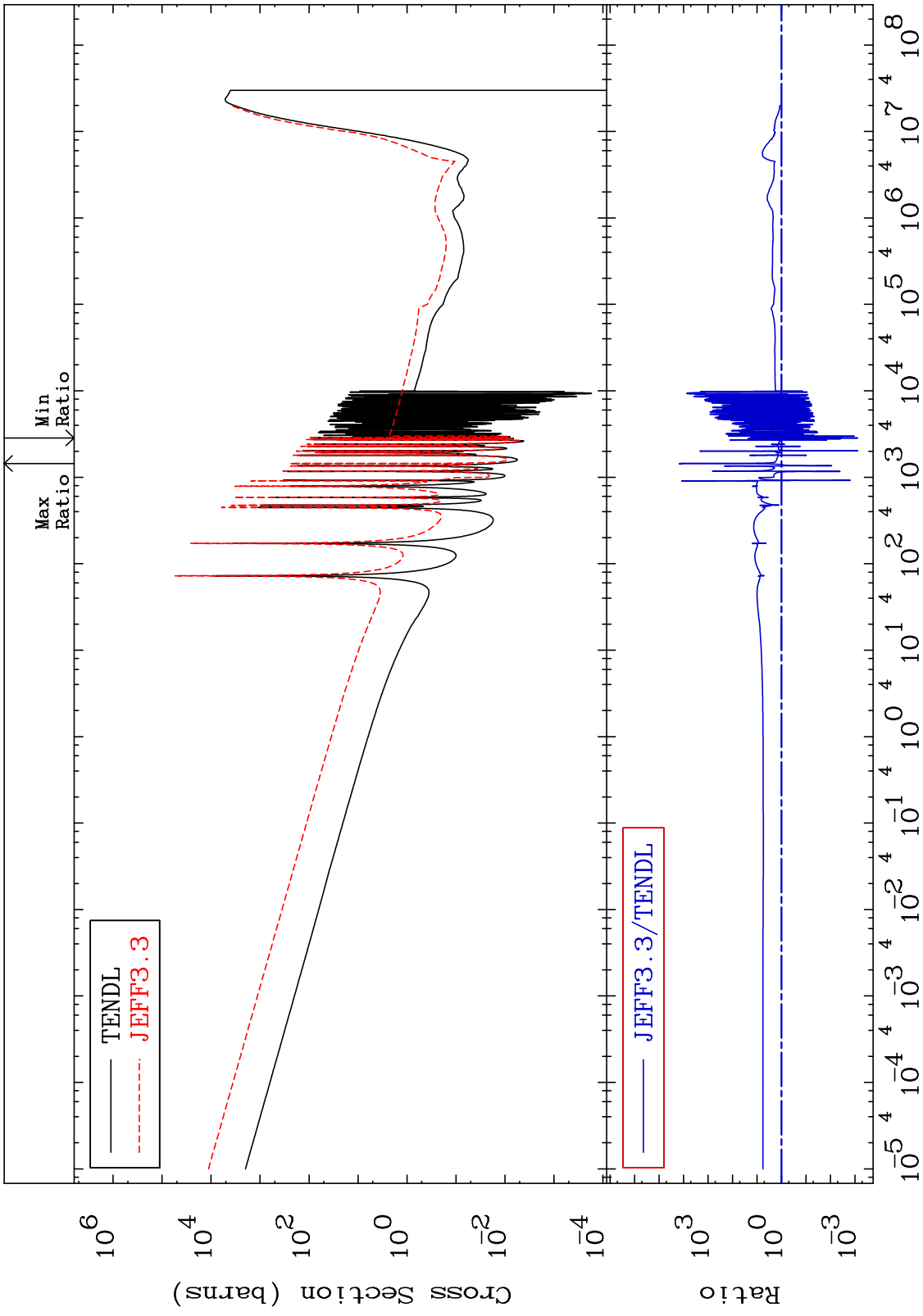


MAT 7243      Dpa inelastic (mt51-91)      72-Hf-180  
 Cross Section      -28.89 To 71.76 %



65      Incident Energy (eV)      72-Hf-180

MAT 7243      Dpa disappearance (mt102 -120)      72-Hf-180  
 Cross Section      -99.92 To 9999. %

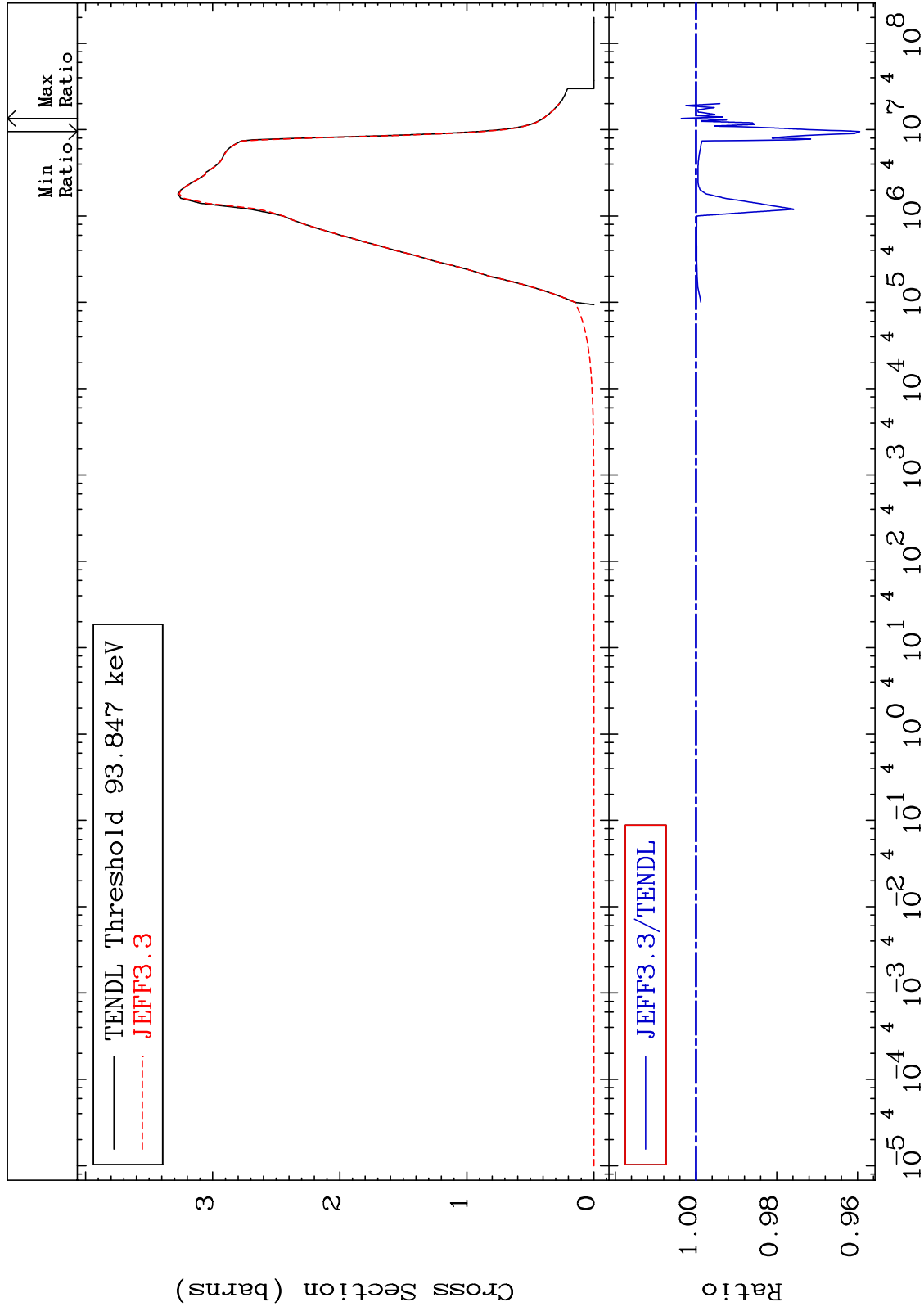


MAT 7243

Inelastic: 72-Hf-180g

72-Hf-180

Radionuclide Production Cross Section -4.058 To 0.367 %

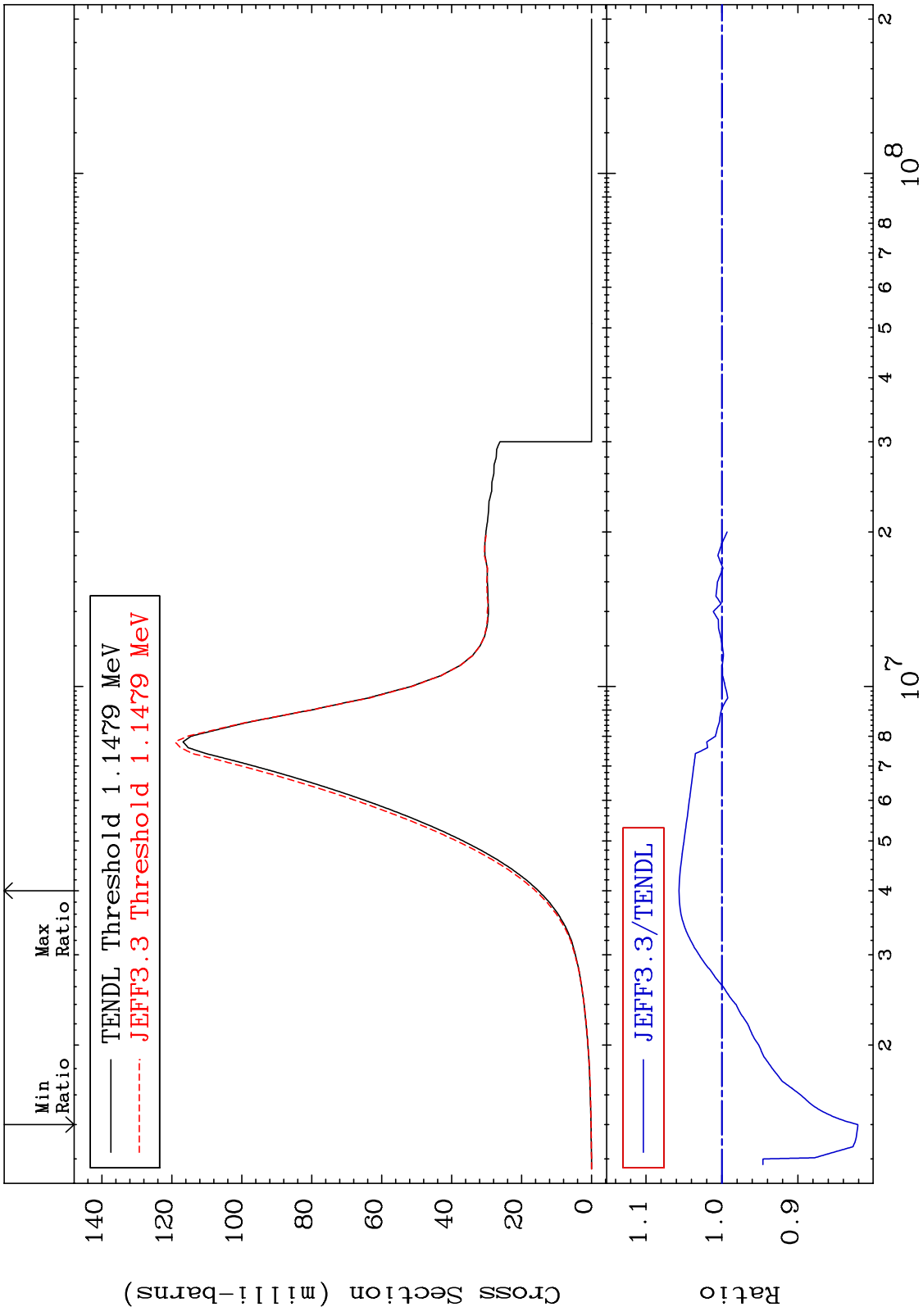


67

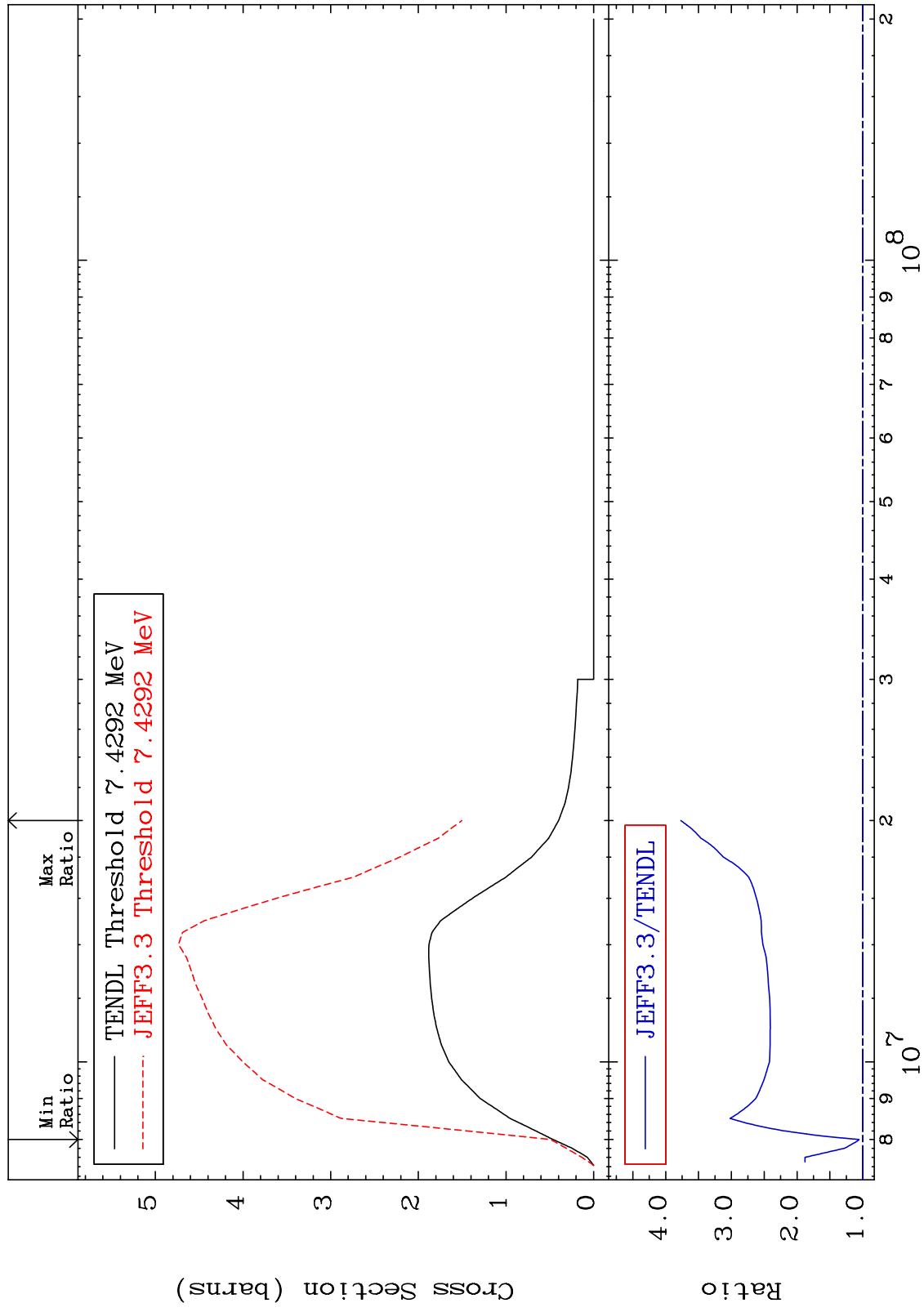
Incident Energy (eV)

72-Hf-180

MAT 7243 Inelastic: 72-Hf-180m7 72-Hf-180  
 Radionuclide Production Cross Section -17.90 To 5.640 %

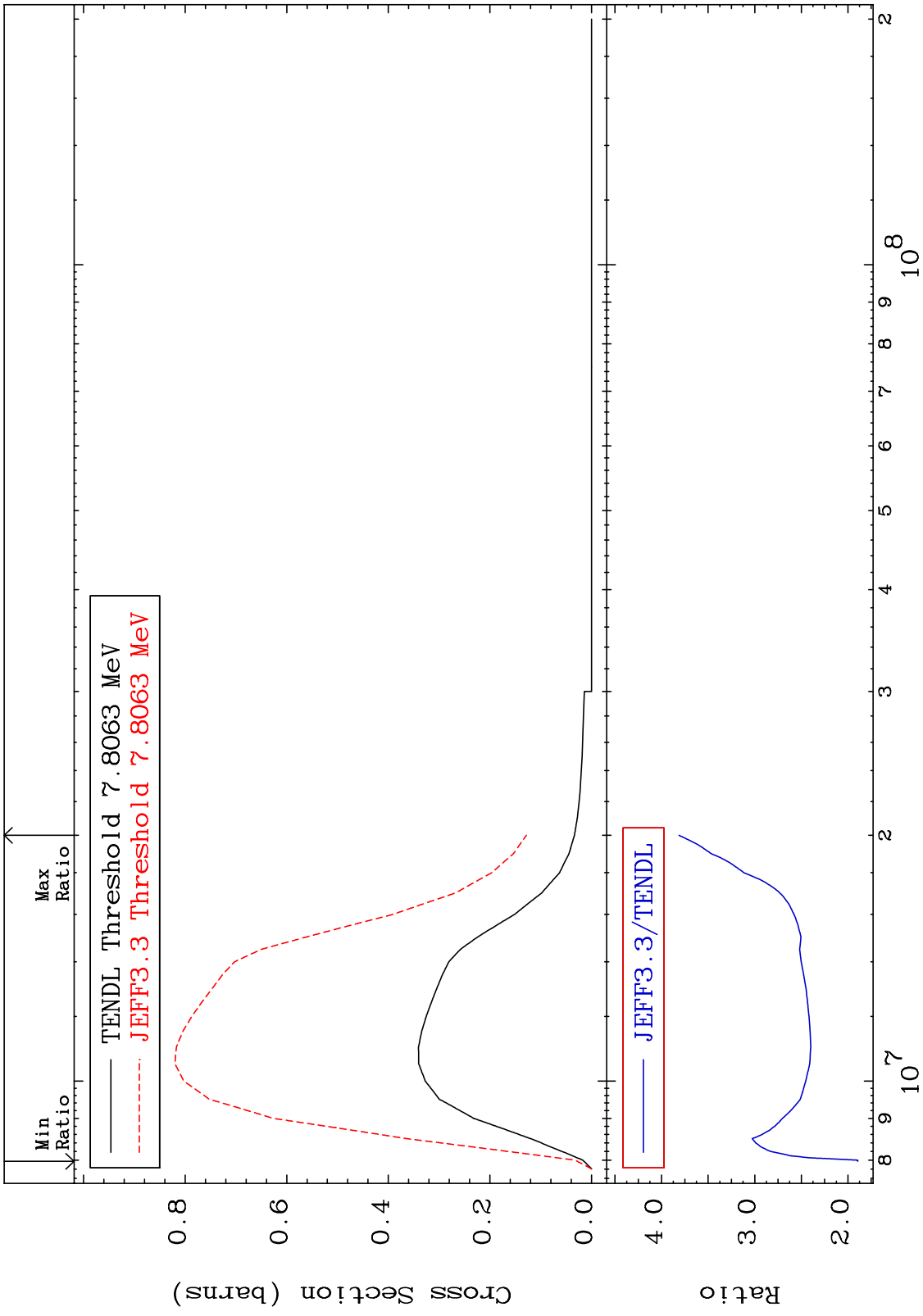


MAT 7243 (n,2n):72-Hf-179g 72-Hf-180  
Radionuclide Production Cross Section 5.648 To 276.9 %



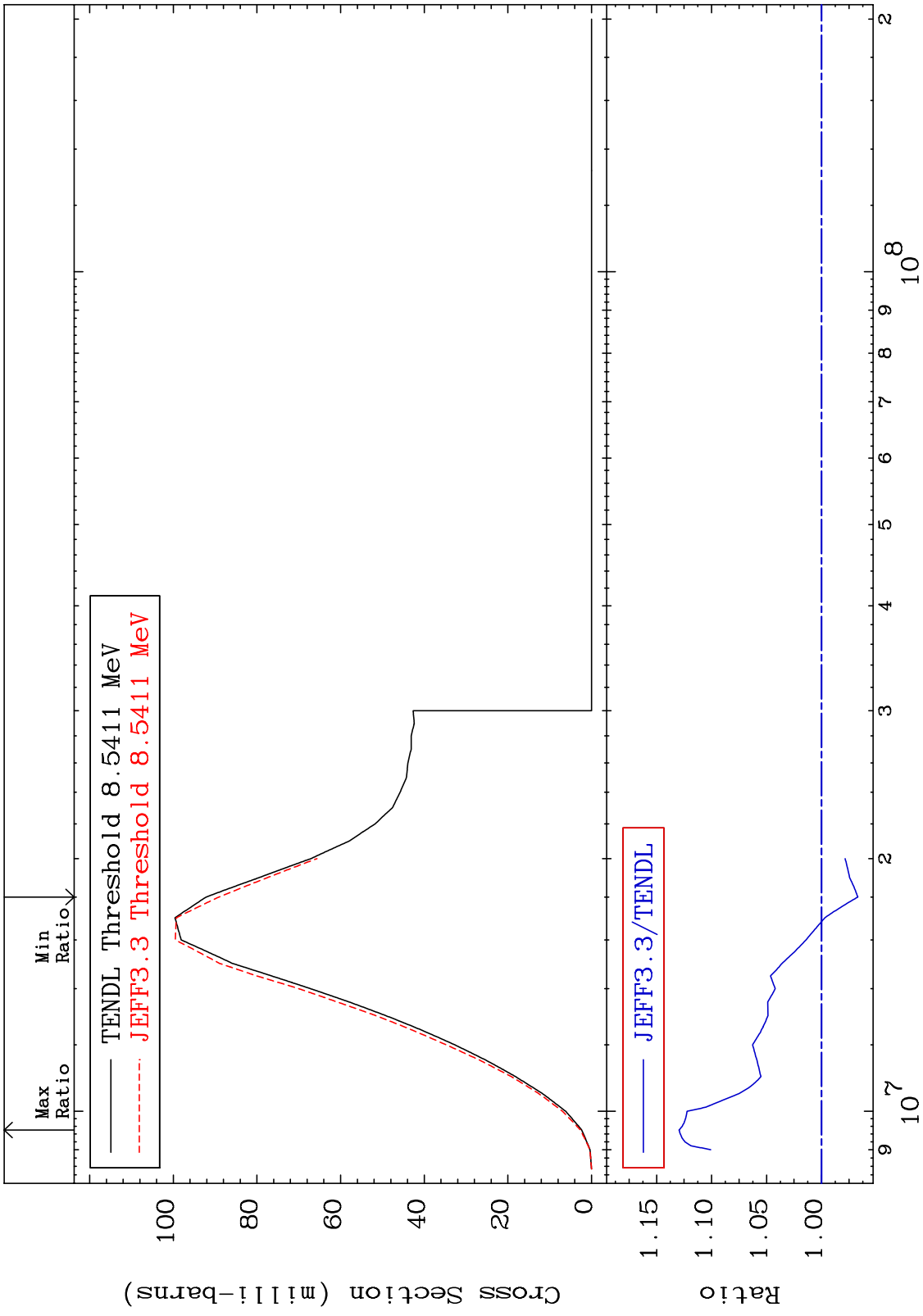
69 Incident Energy (eV) 72-Hf-180

MAT 7243 (n,2n):72-Hf-179m5 72-Hf-180  
 Radionuclide Production Cross Section 89.35 To 281.2 %



70 72-Hf-180

MAT 7243 (n,2n): 72-Hf-179m10 72-Hf-180  
 Radionuclide Production Cross Section -3.298 To 12.96 %



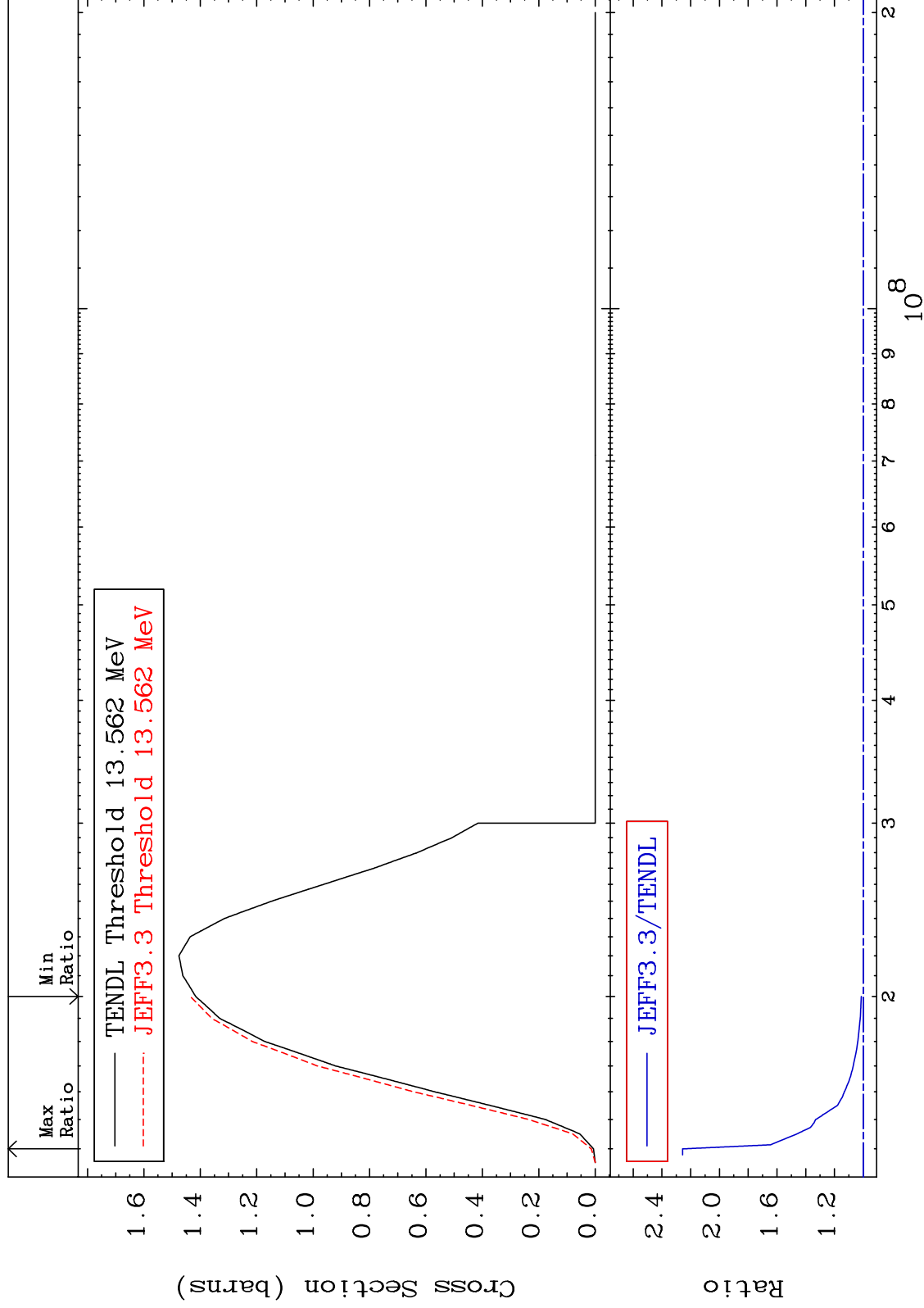


MAT 7243

(n, 3n): 72-Hf-178g

72-Hf-180

Radionuclide Production Cross Section 1.335 To 125.6 %



72

Incident Energy (eV)

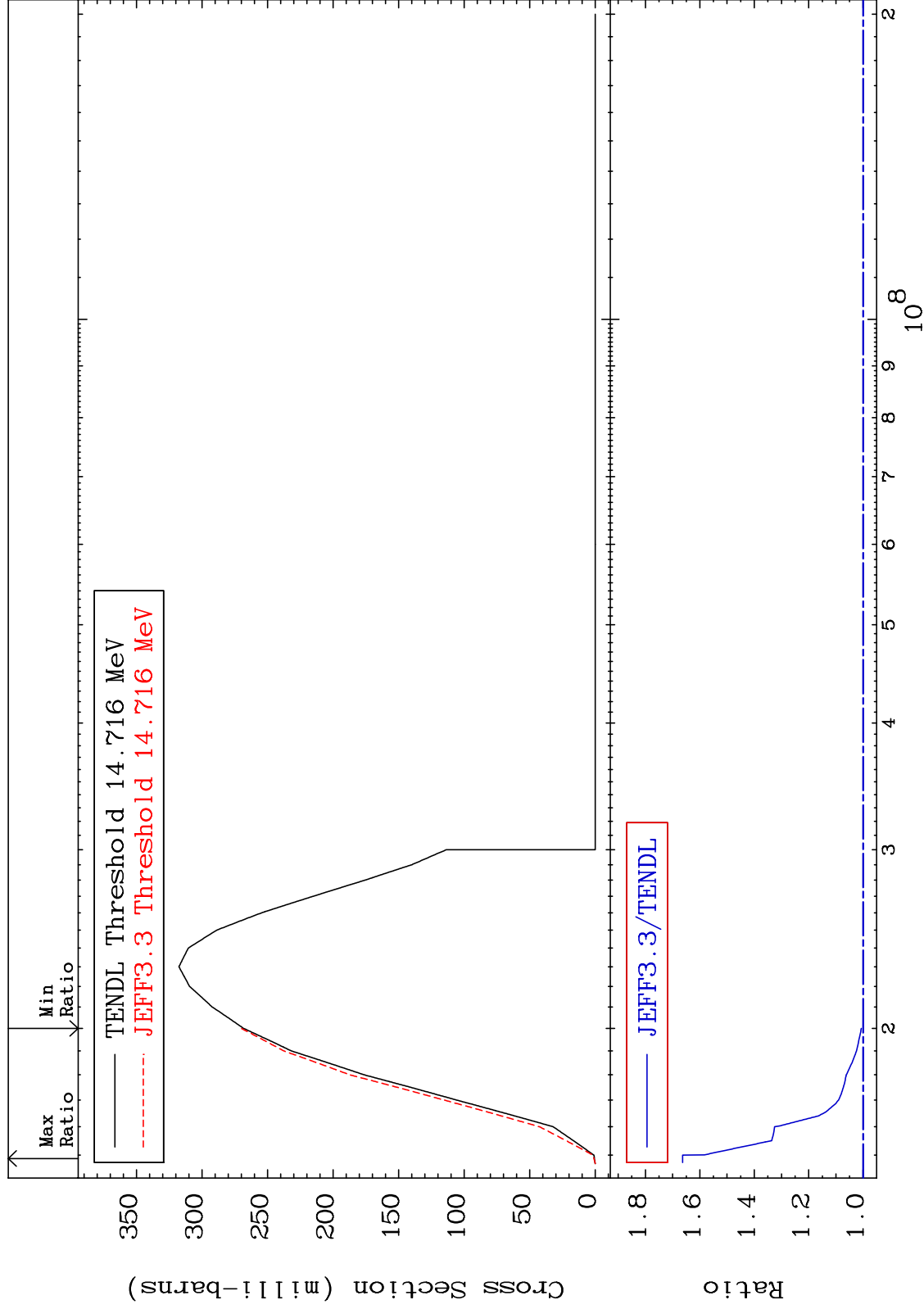
72-Hf-180

MAT 7243

(n, 3n) : 72-Hf-178m5

72-Hf-180

Radionuclide Production Cross Section 0.663 To 66.30 %



73

Incident Energy (eV)

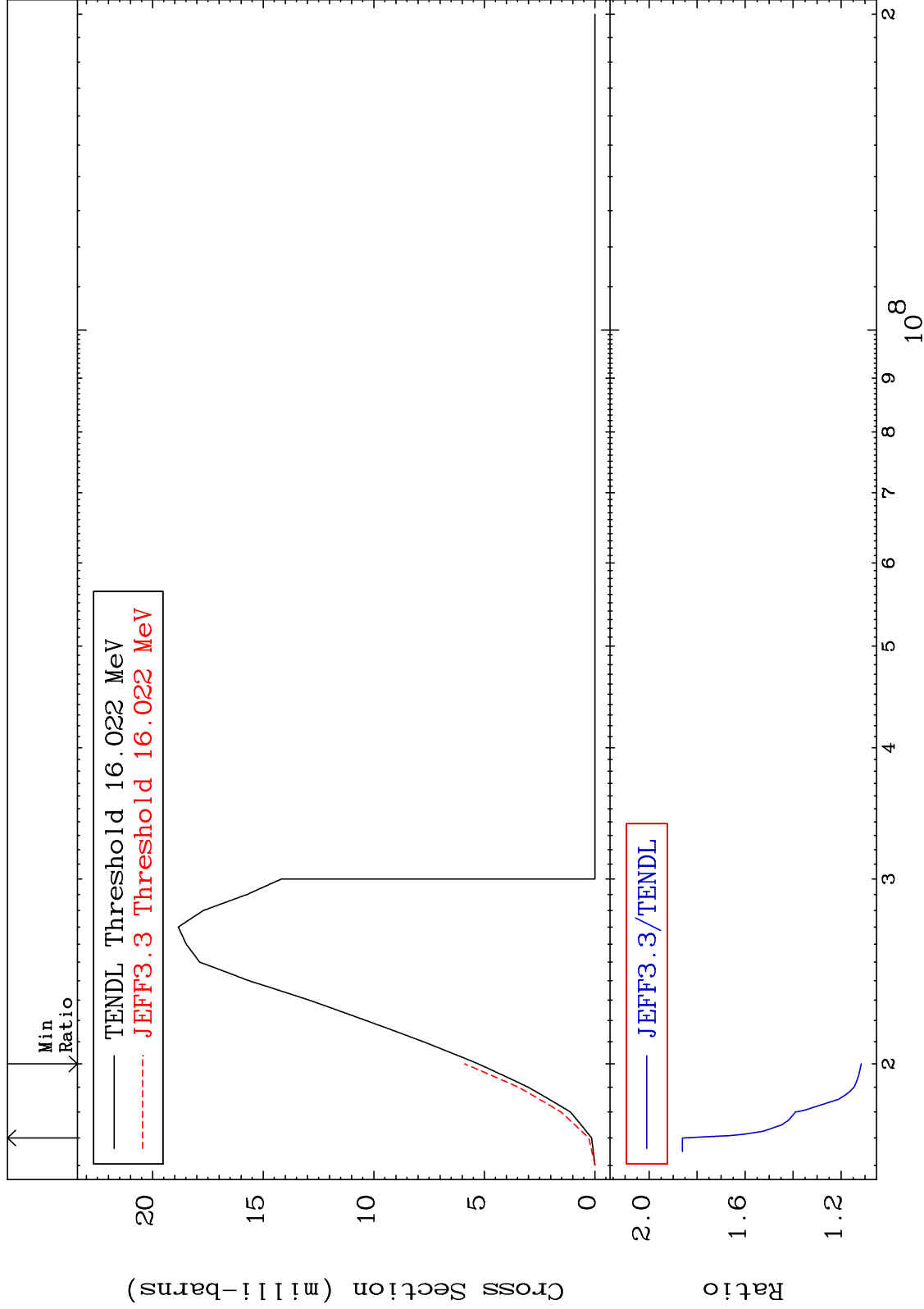
72-Hf-180

MAT 7243

(n,3n):72-Hf-178m10

72-Hf-180

Radionuclide Production Cross Section 11.57 To 86.11 %

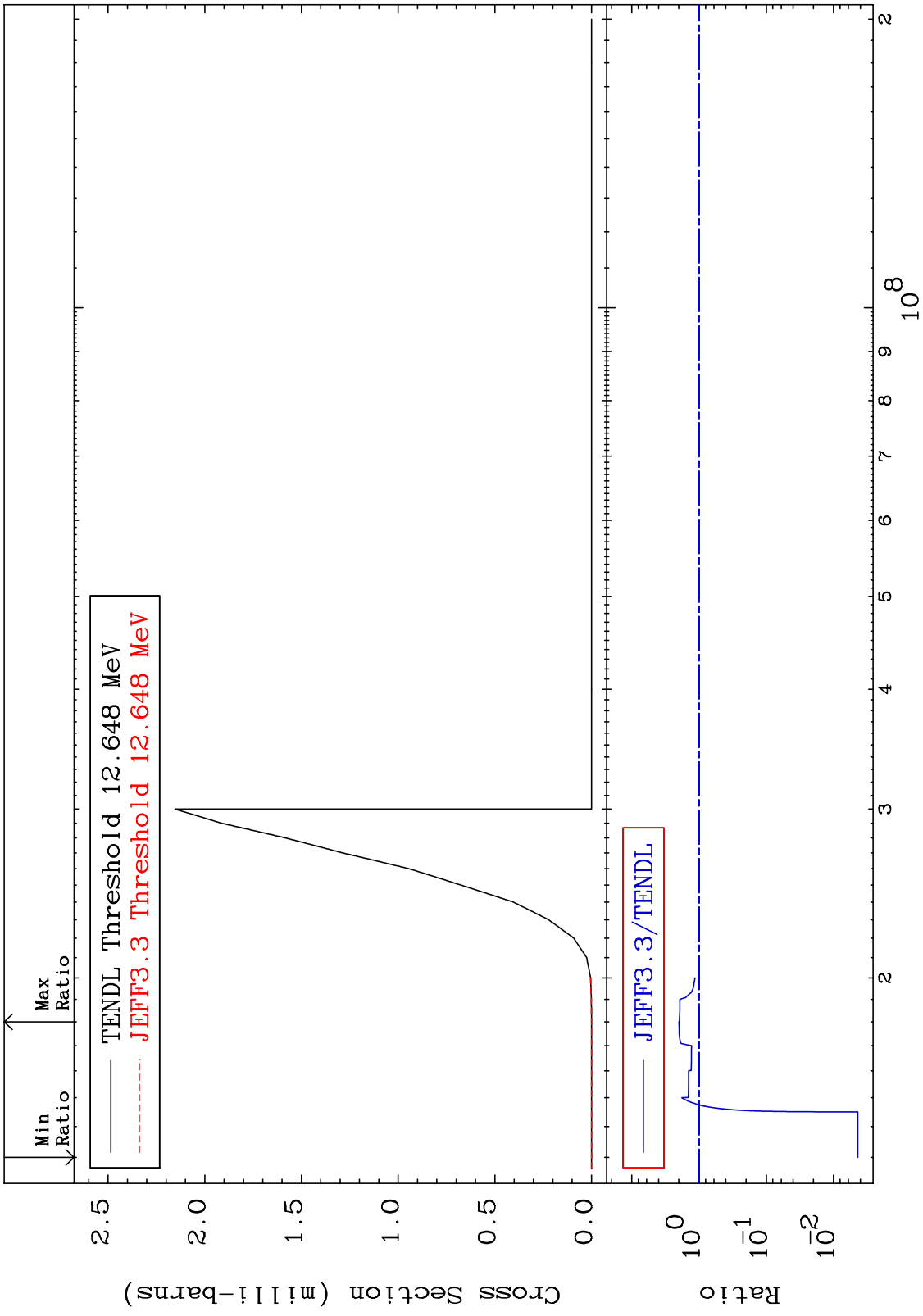


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Incident Energy (eV)

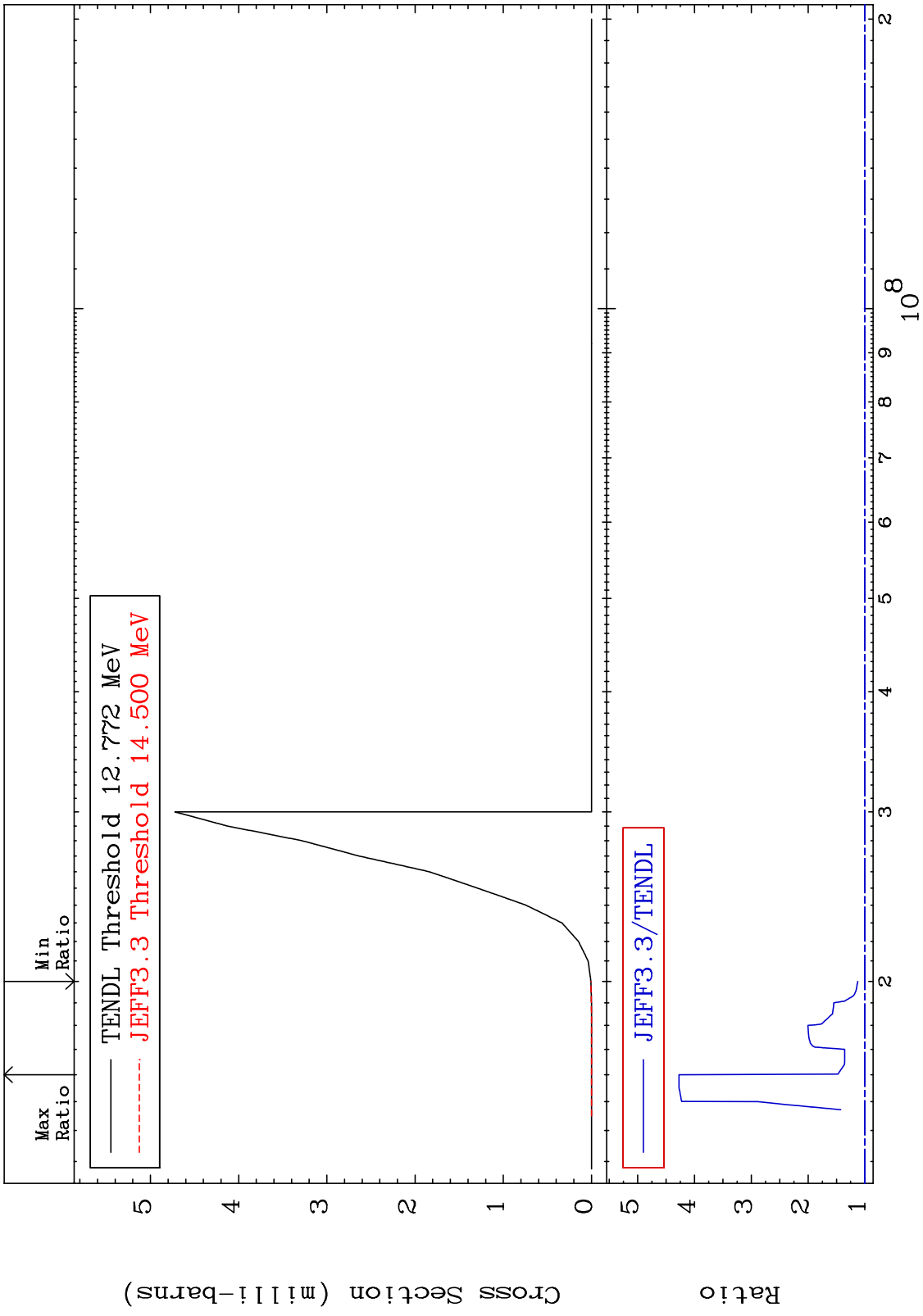
72-Hf-180

MAT 7243 (n, n') d:71-Lu-178g 72-Hf-180  
 Radionuclide Production Cross Section -99.56 To 98.43 %

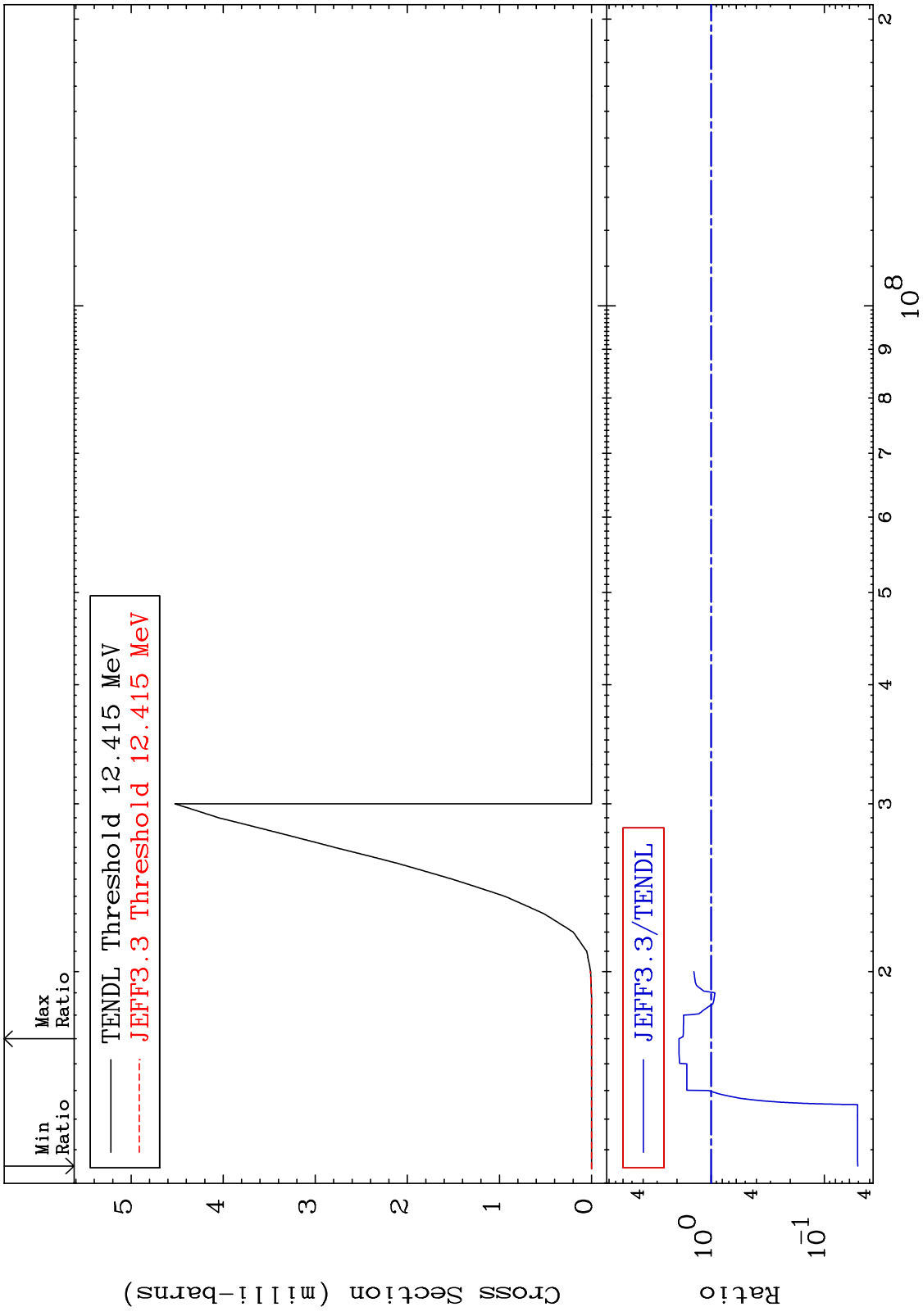


75 72-Hf-180

MAT 7243 (n,n') d:71-Lu-178m3 72-Hf-180  
 Radionuclide Production Cross Section 12.41 To 327.1 %



MAT 7243 (n, n') t: 71-Lu-177g 72-Hf-180  
 Radionuclide Production Cross Section -94.93 To 92.31 %

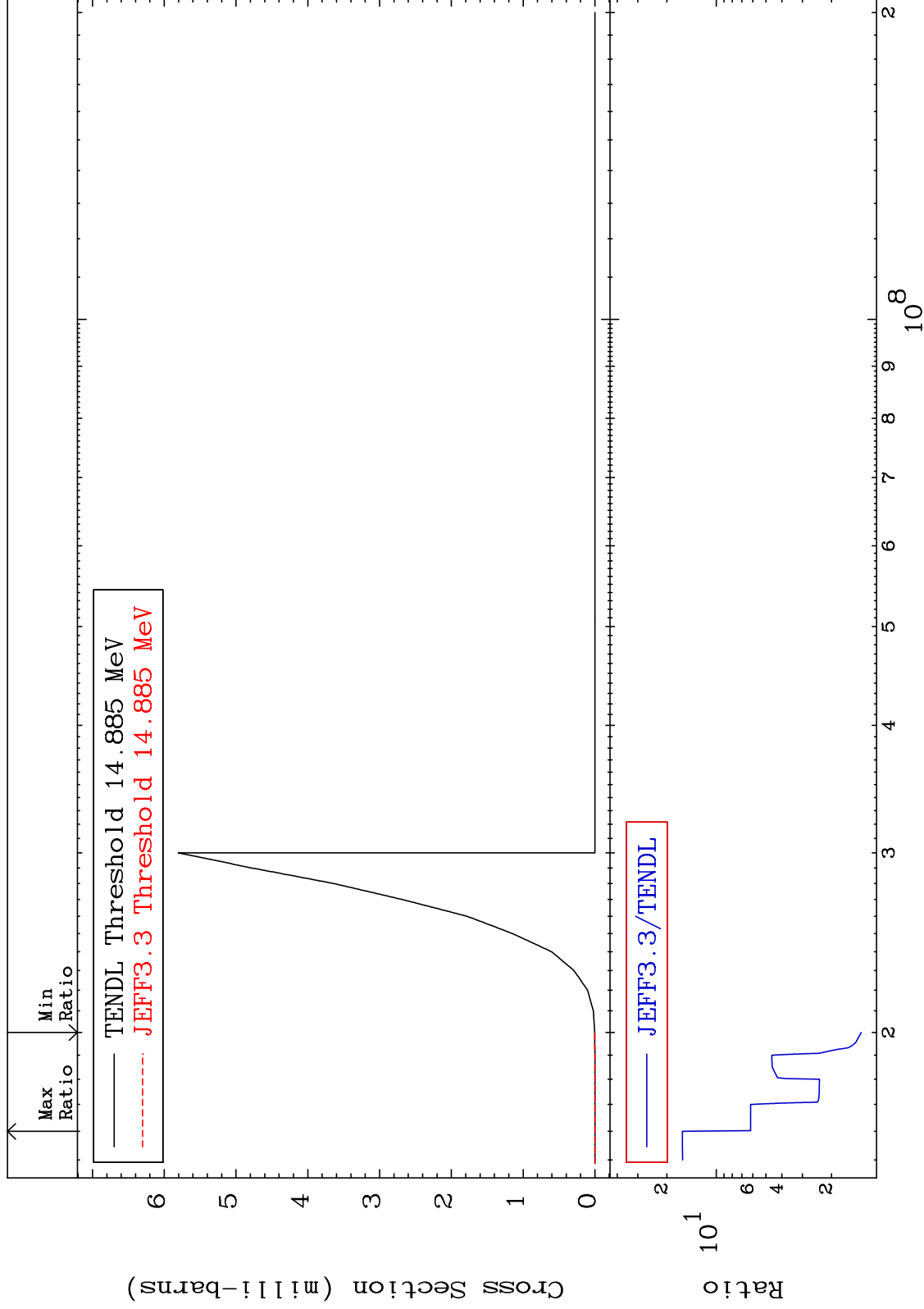


MAT 7243

(n,2n) p:71-Lu-178g

72-Hf-180

Radionuclide Production Cross Section 31.64 To 1507. %



78

Incident Energy (eV)

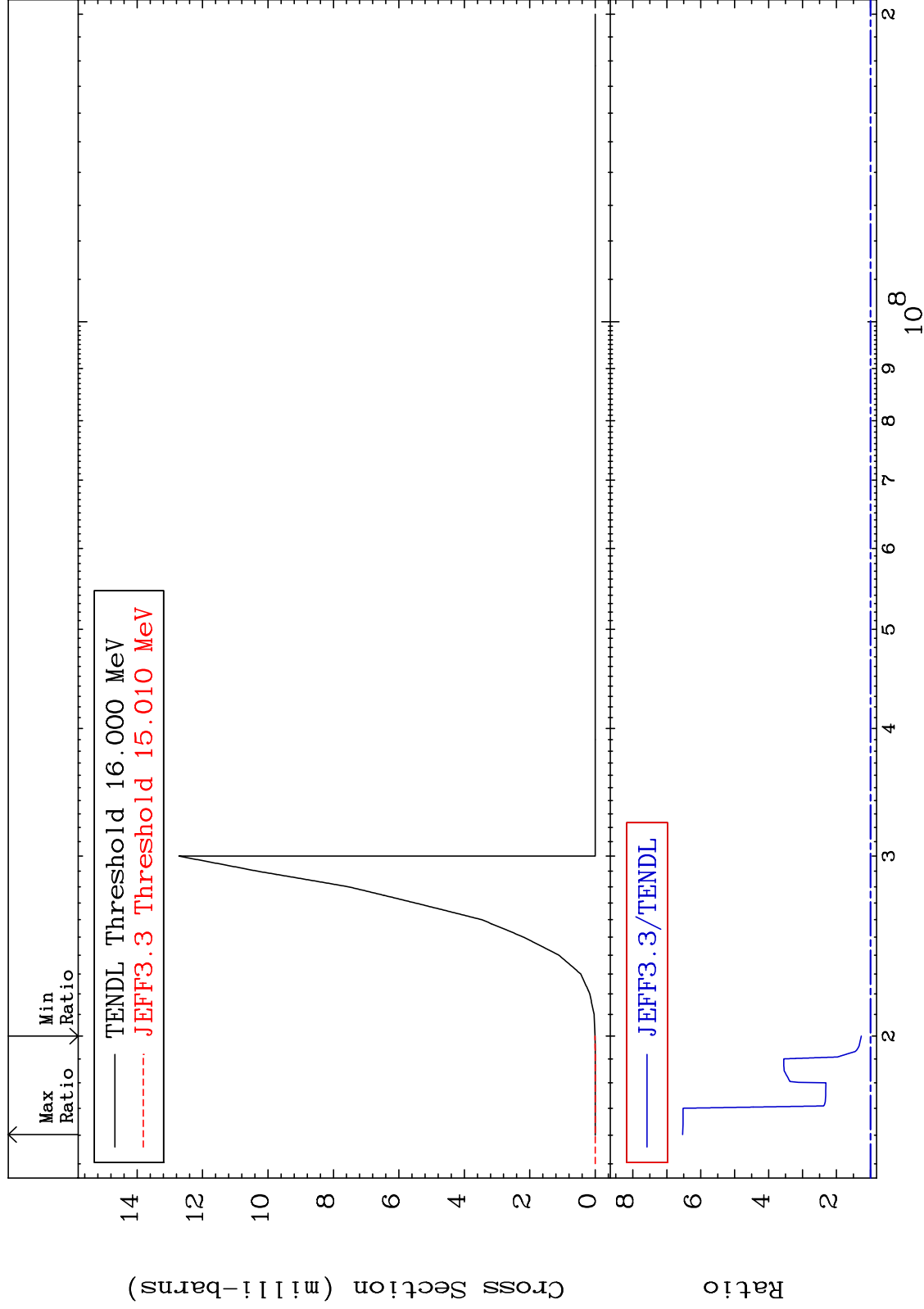
72-Hf-180

MAT 7243

(n,2n) p:71-Lu-178m3

72-Hf-180

Radionuclide Production Cross Section 26.71 To 553.1 %



79

Incident Energy (eV)

72-Hf-180

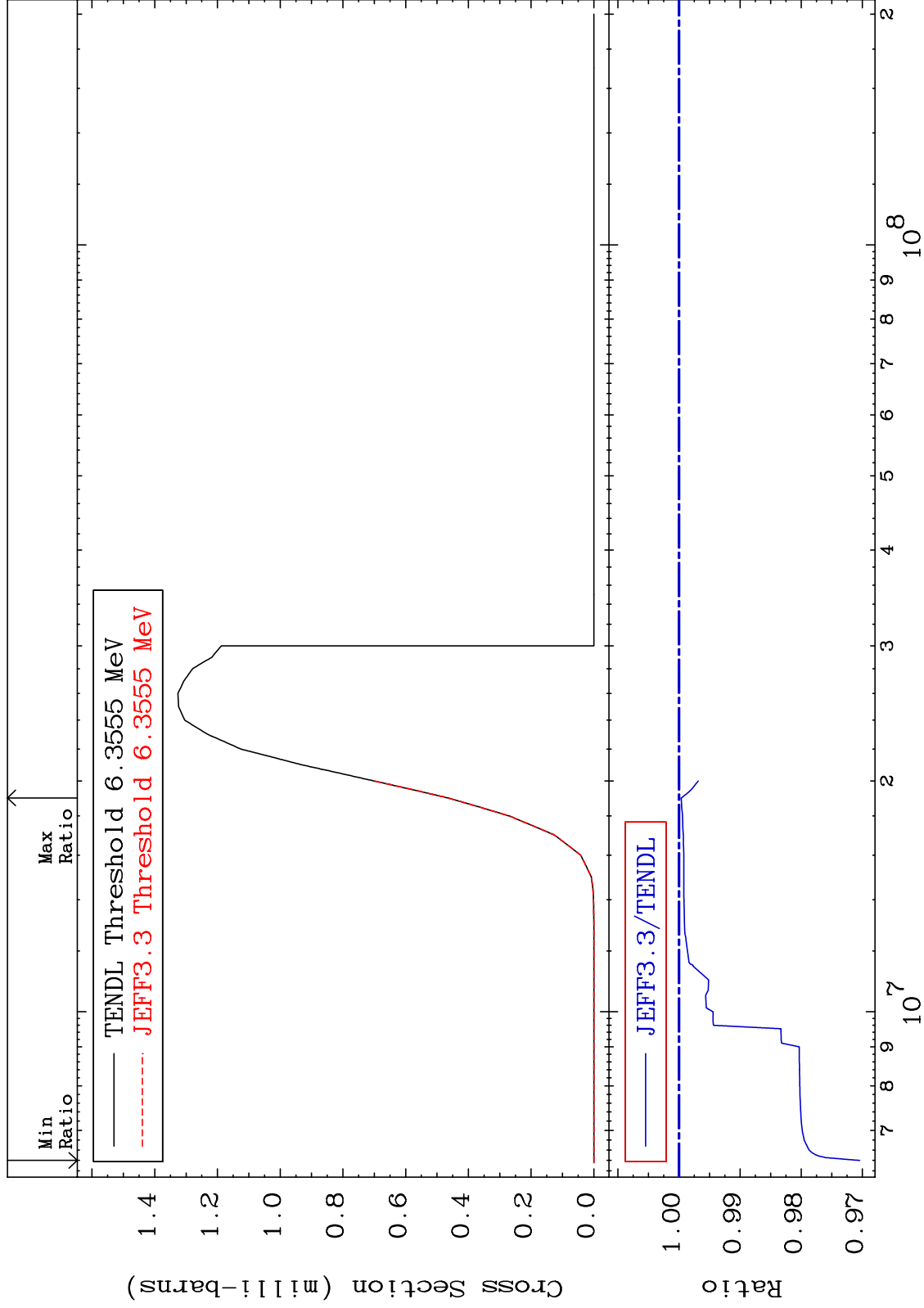


MAT 7243

(n,t):71-Lu-178g

72-Hf-180

Radionuclide Production Cross Section -2.959 To -0.036%



80

Incident Energy (eV)

72-Hf-180

MAT 7243 (n, t): 71-Lu-178m3 72-Hf-180  
 Radionuclide Production Cross Section -5.094 To -0.009%

