

Program Complot
(Version 2018-1)

by

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(Present Contact Information)

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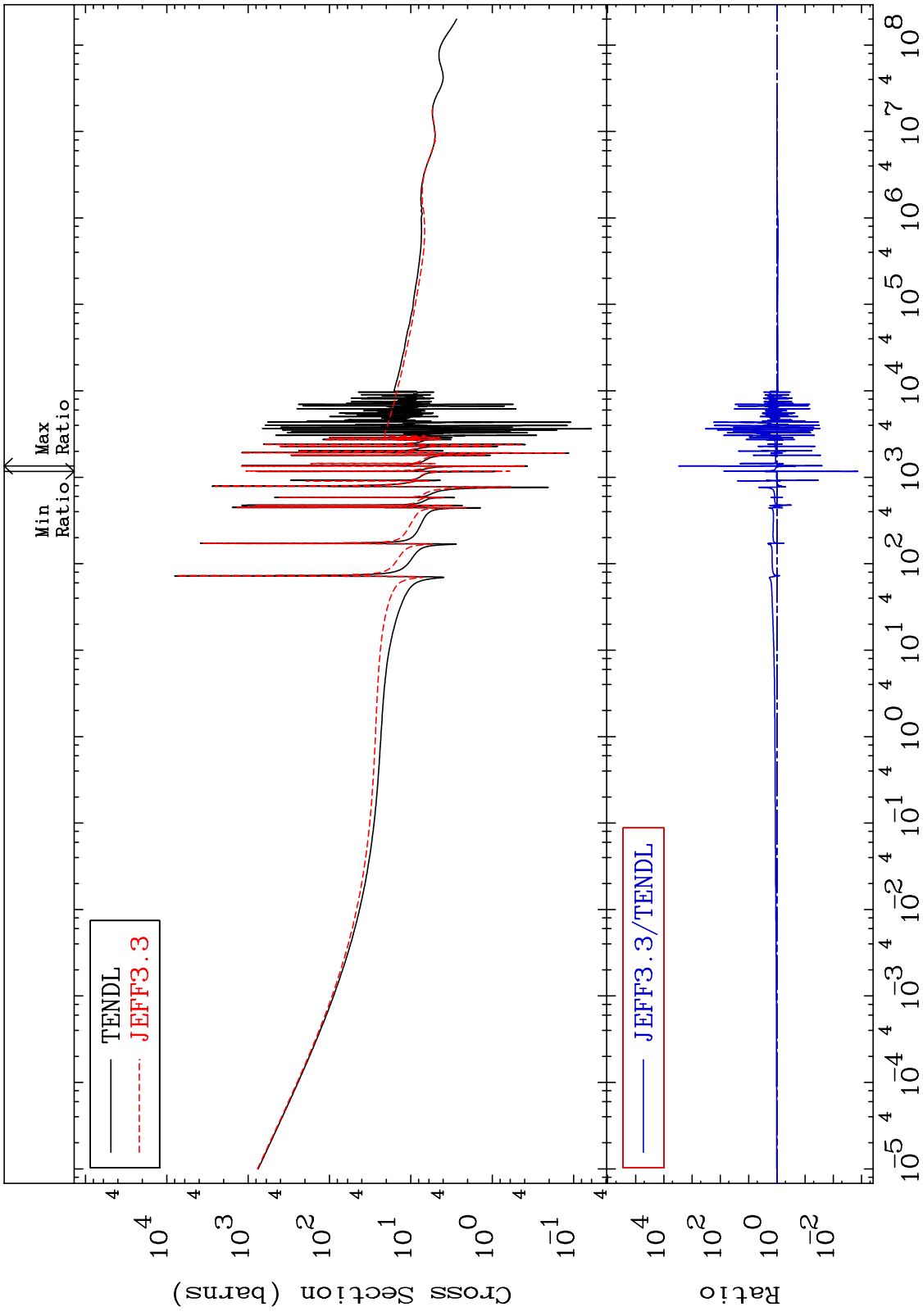
U.S.A.

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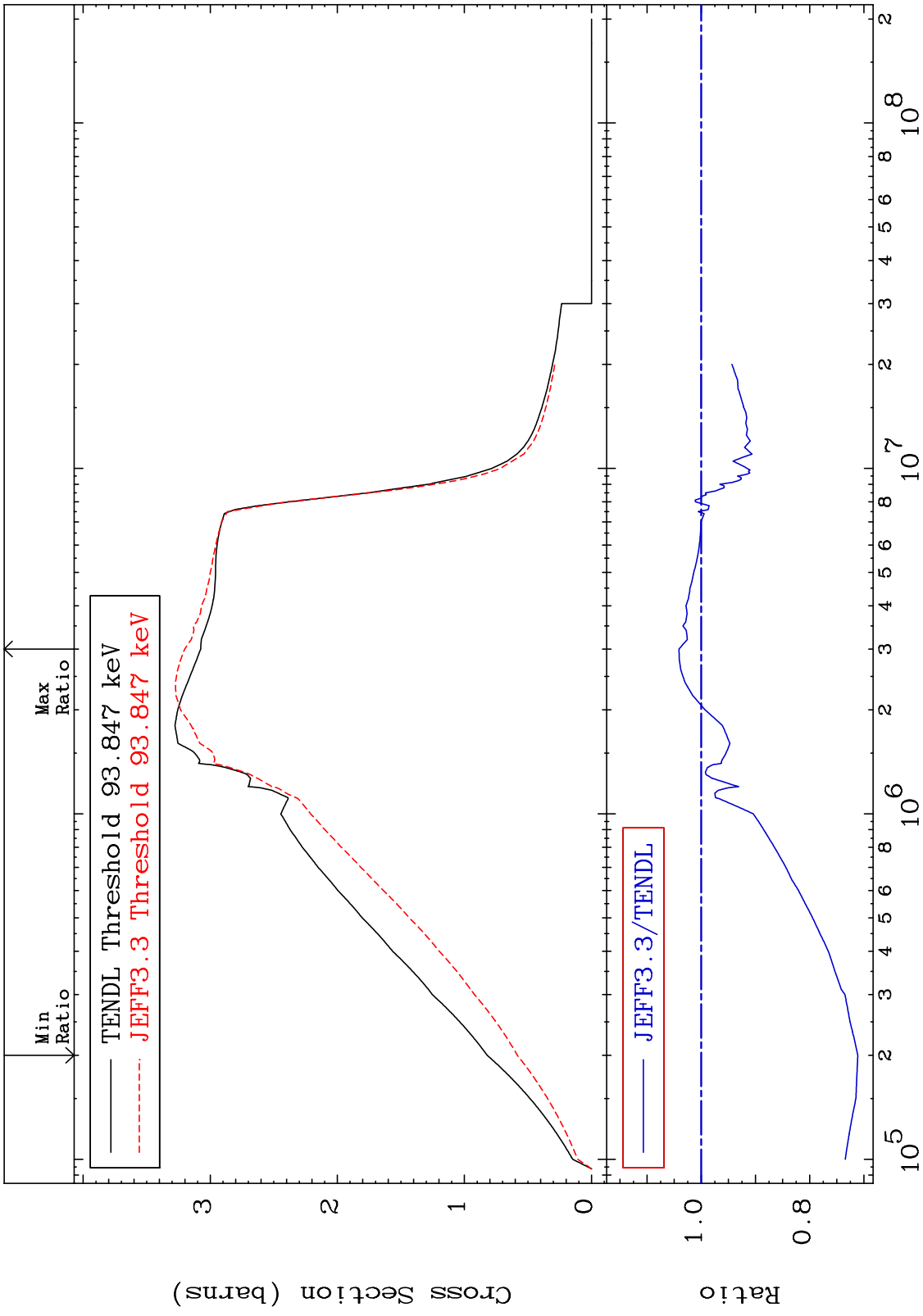
Press Mouse Button to Start

MAT 7243 Total Cross Section 72-Hf-180
-99.86 To 9999. %



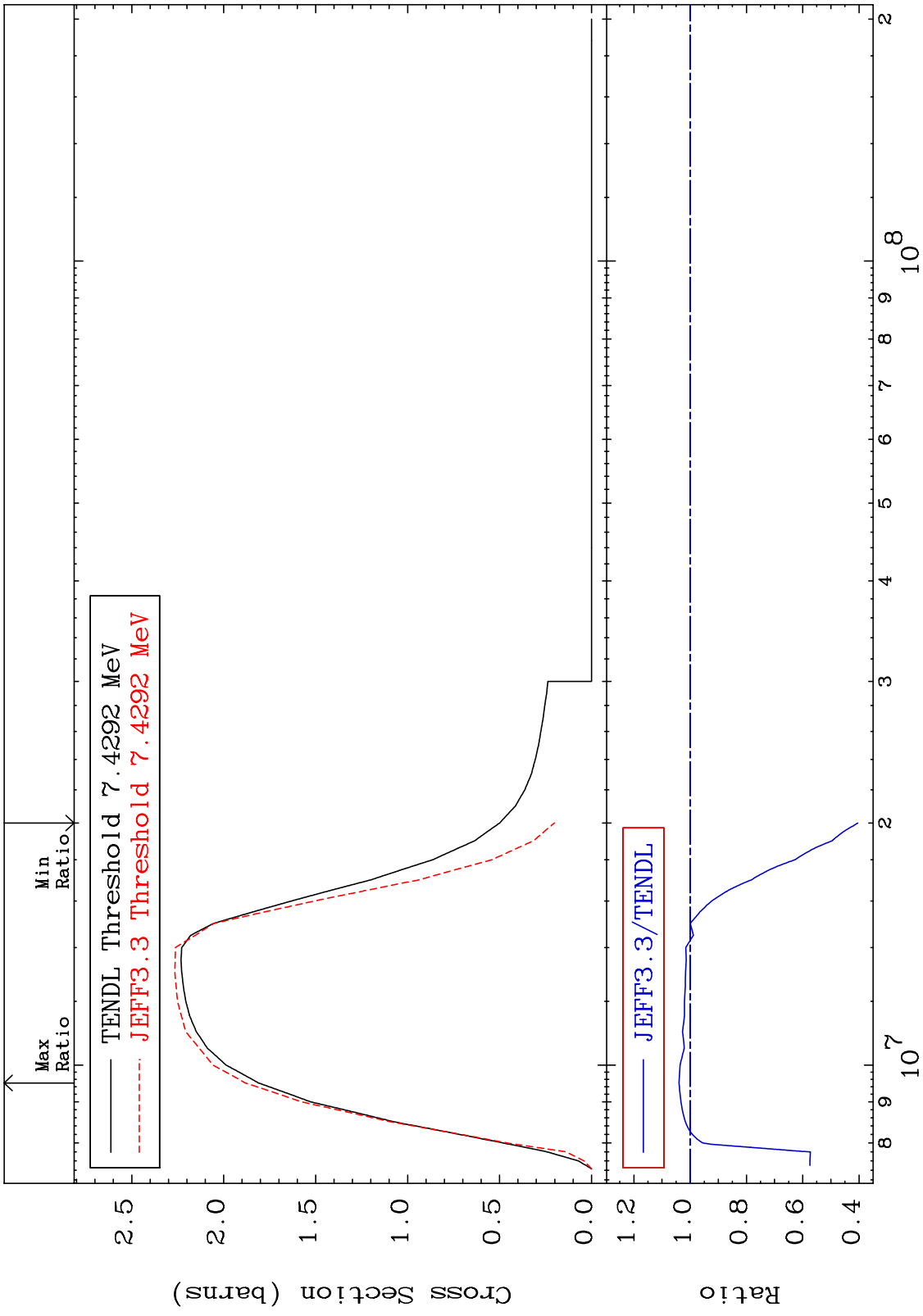
1 Incident Energy (eV) 72-Hf-180

MAT 7243 Inelastic Cross Section 72-Hf-180 -28.89 To 4.087 %

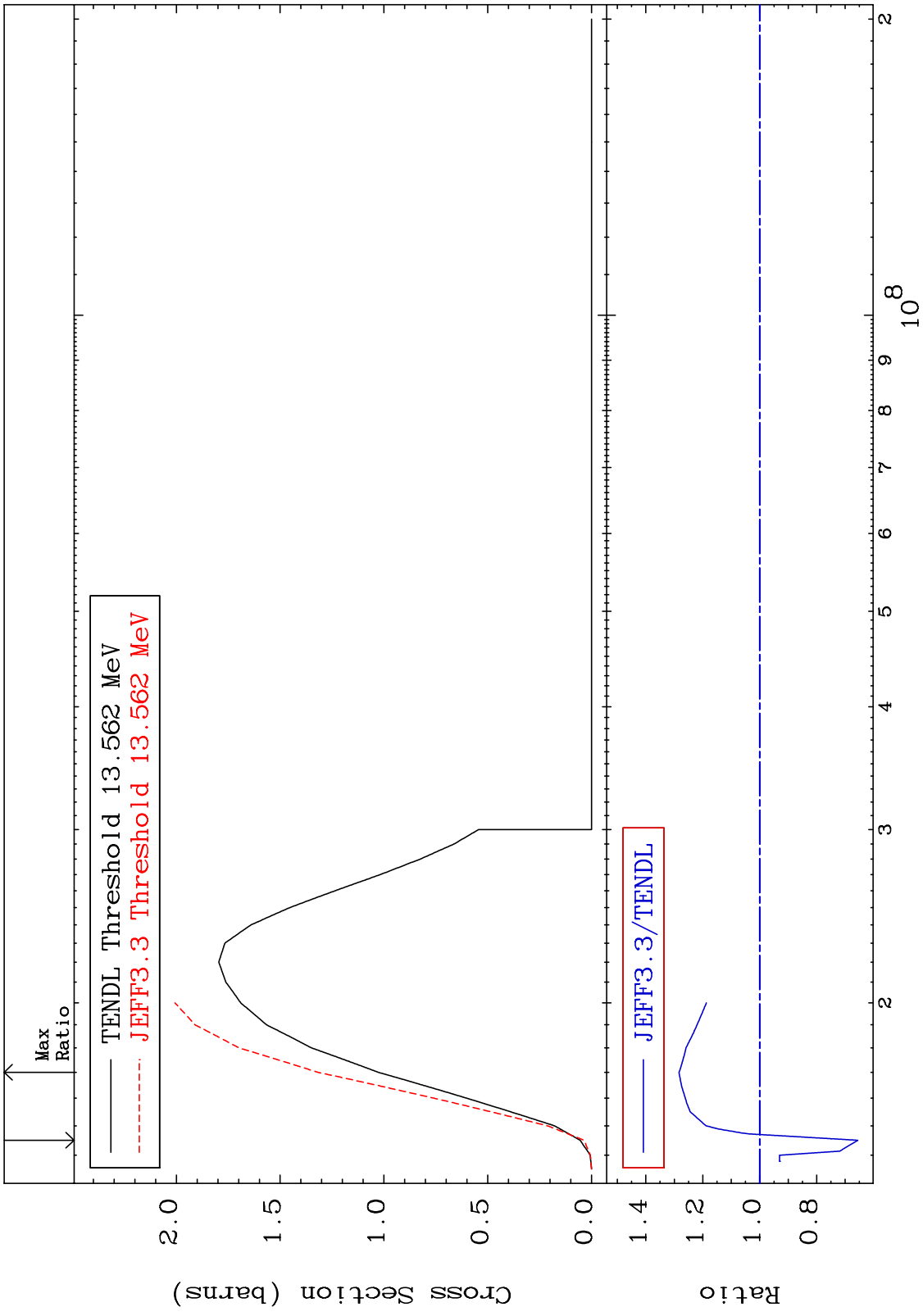


72-Hf-180 Incident Energy (eV)

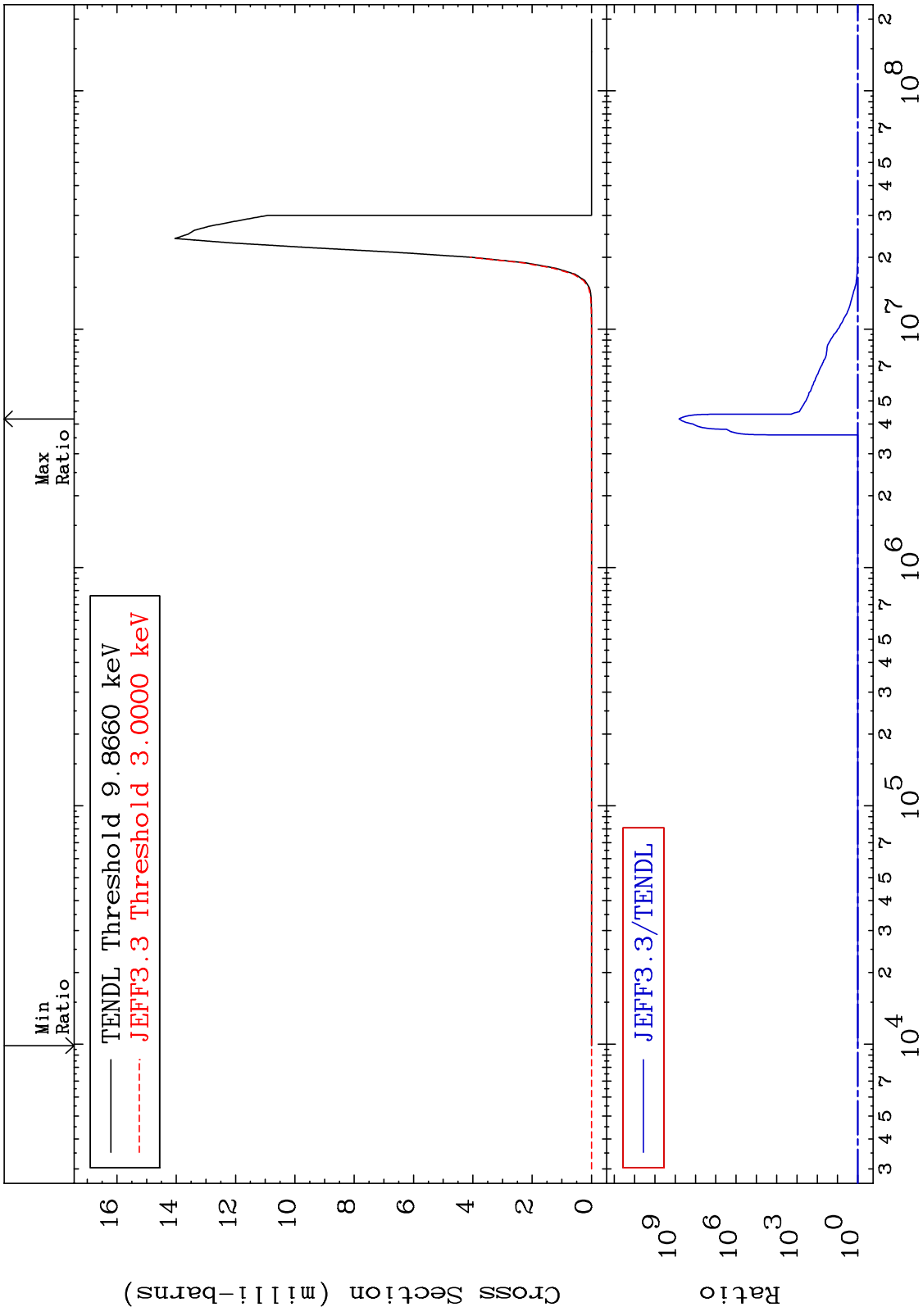
MAT 7243 (n,2n) 72-Hf-180
 Cross Section -59.58 To 3.951 %



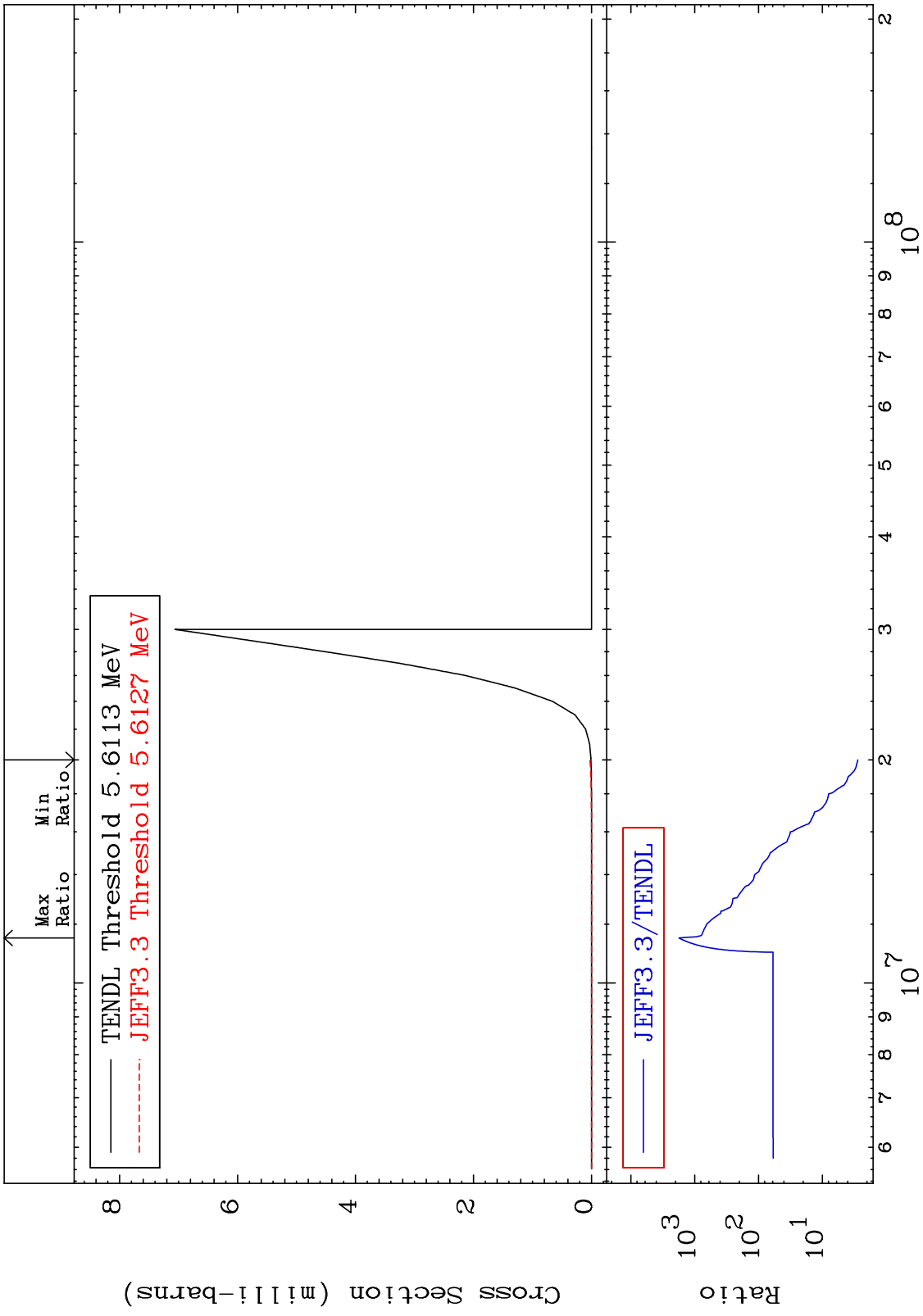
MAT 7243 (n,3n) Cross Section 72-Hf-180
 -34.45 To 28.33 %

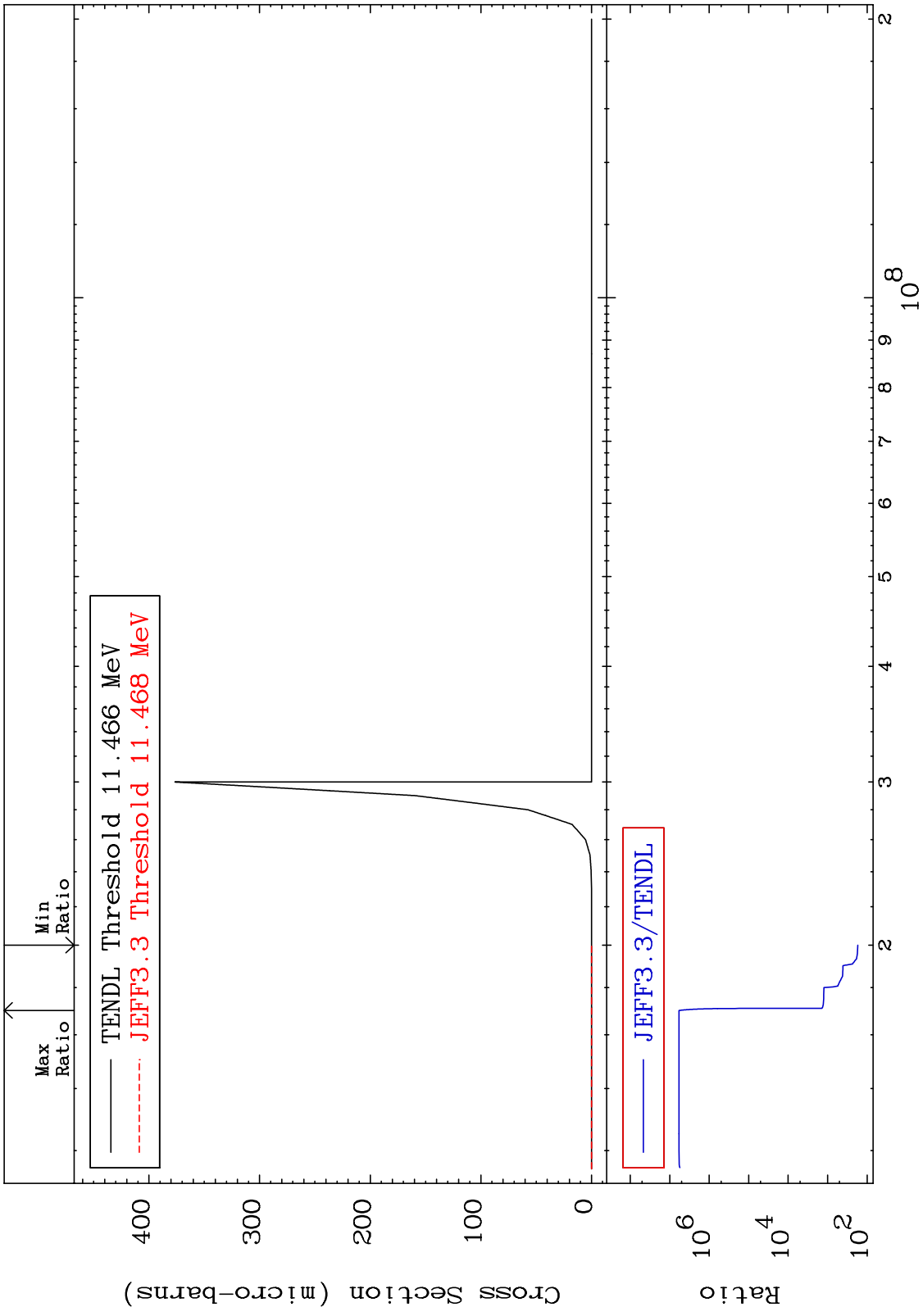


MAT 7243 $(n, n') \alpha$ Cross Section 72-Hf-180 To 9999. %

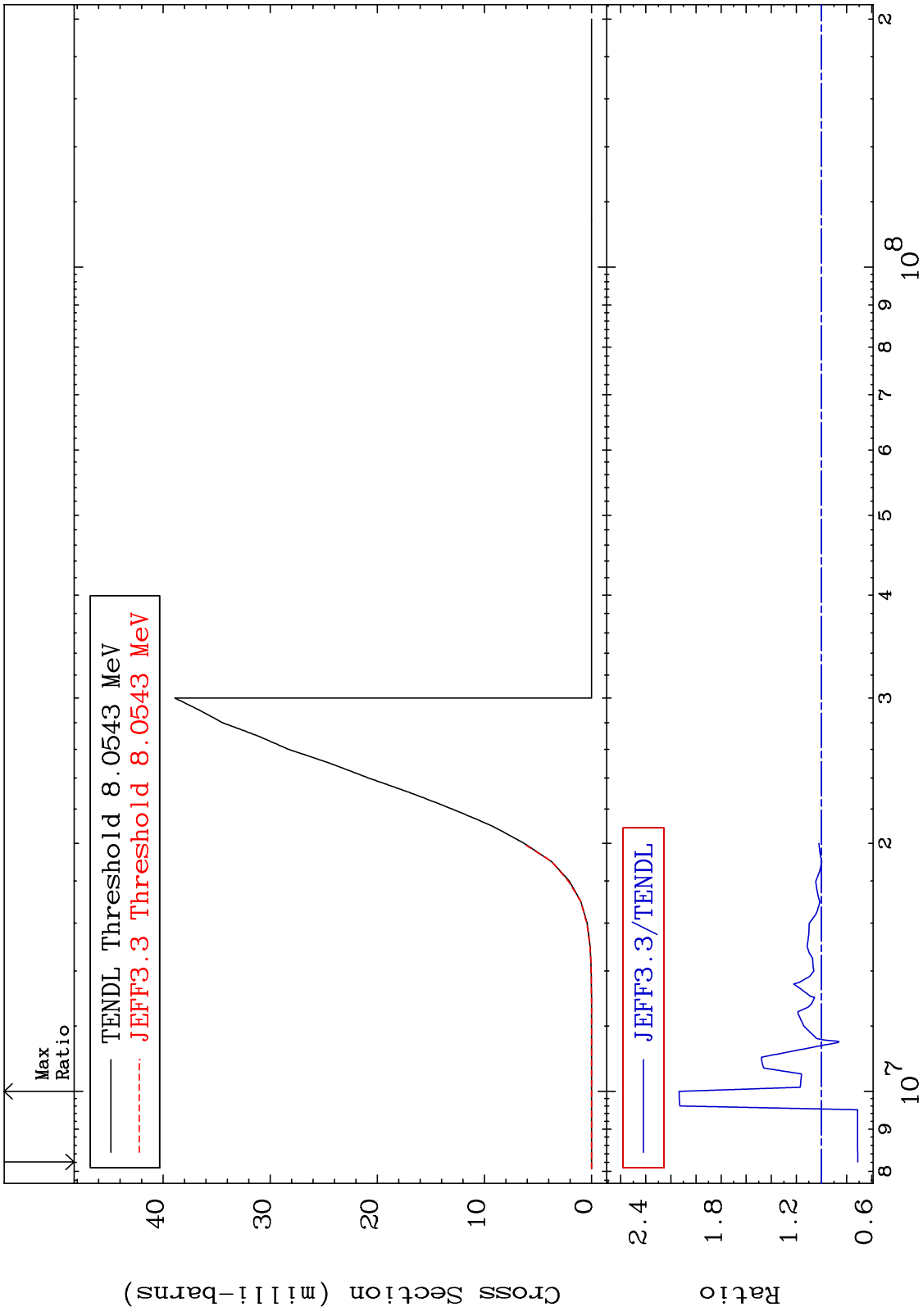


MAT 7243 $(n, 2n) \alpha$ 72-Hf-180
 Cross Section 178.0 To 9999. %



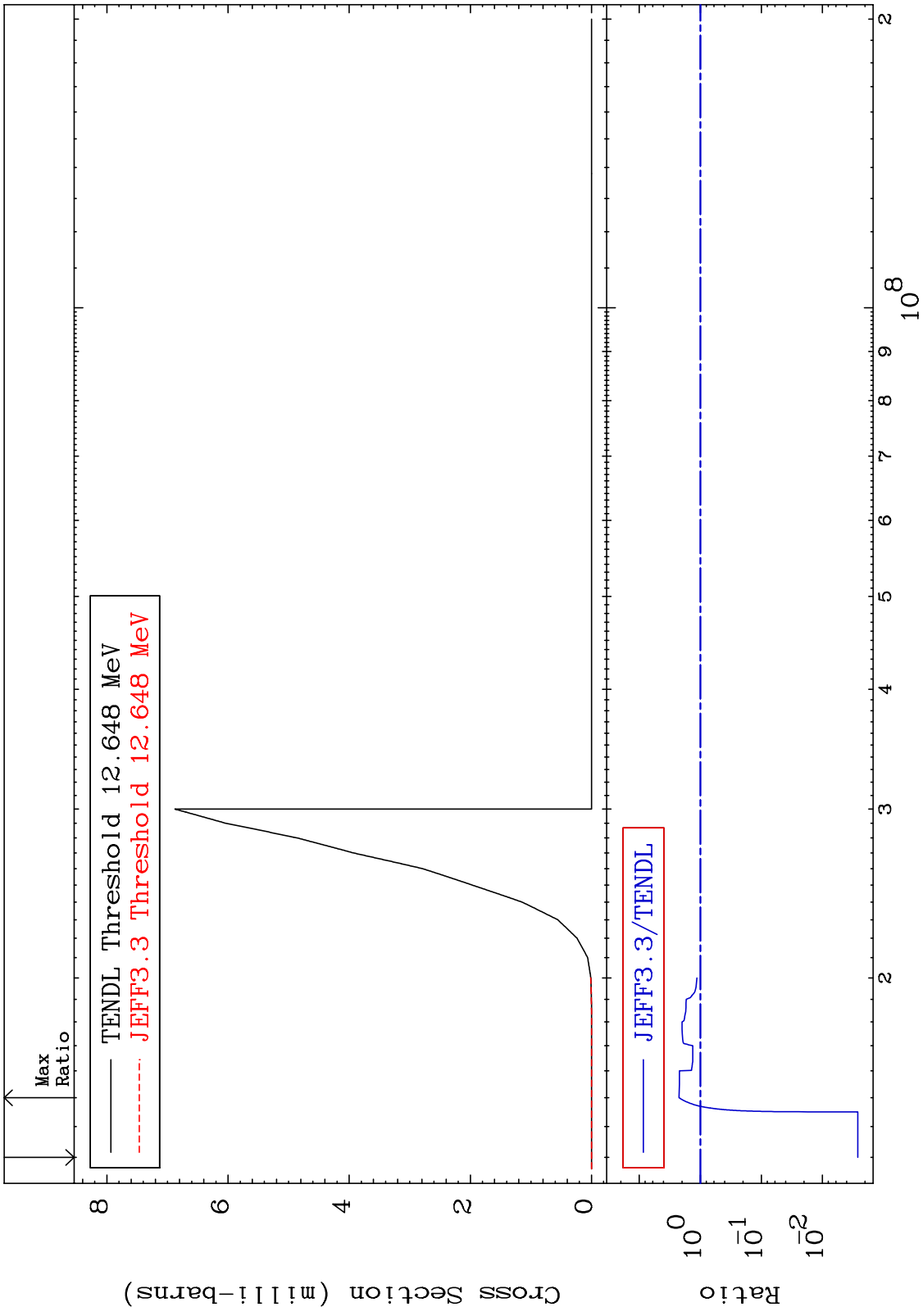


MAT 7243 (n,n') p 72-Hf-180
 Cross Section -28.97 To 113.5 %



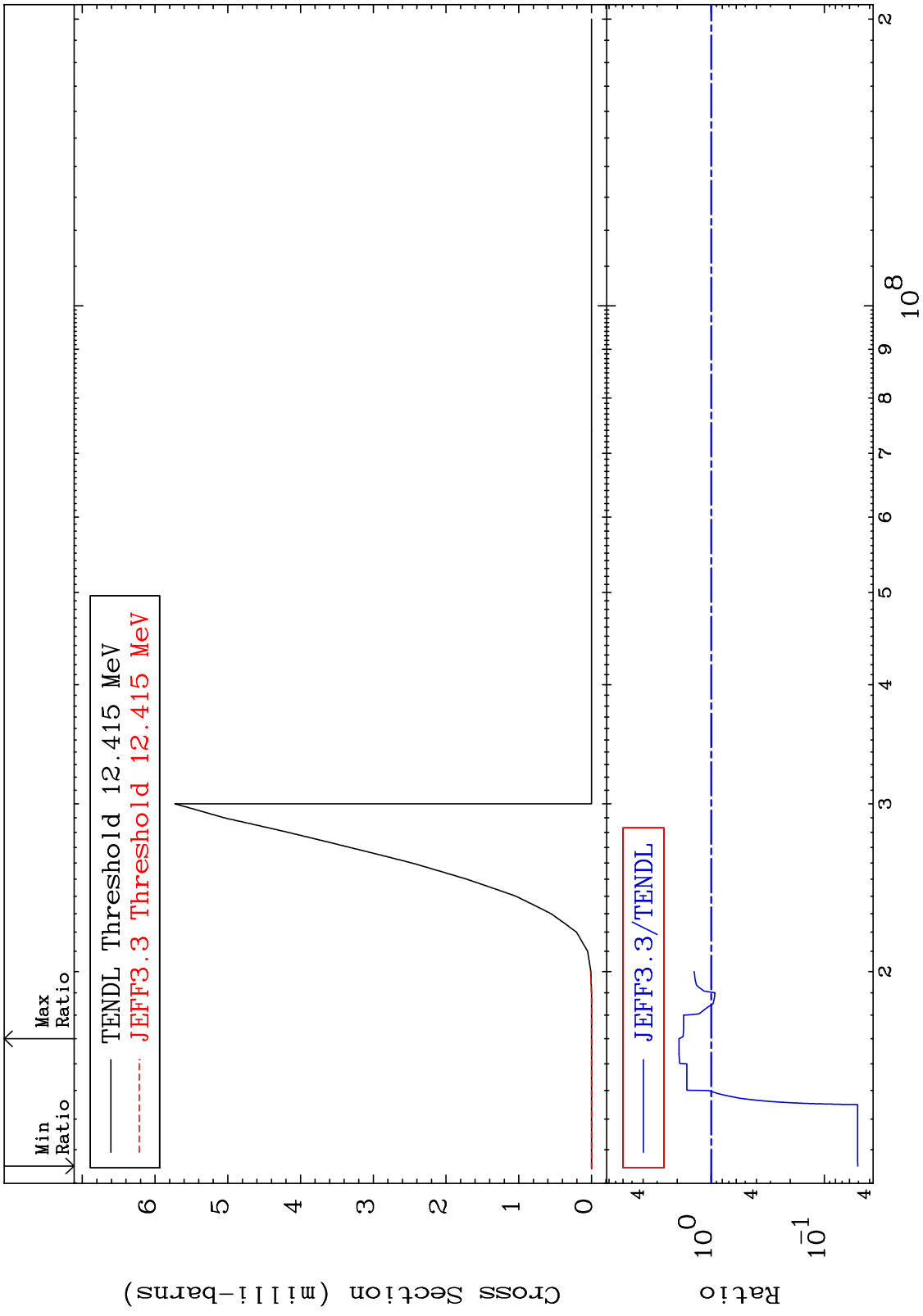
9 Incident Energy (eV) 72-Hf-180

MAT 7243 (n, n') d 72-Hf-180
 Cross Section -99.74 To 123.0 %

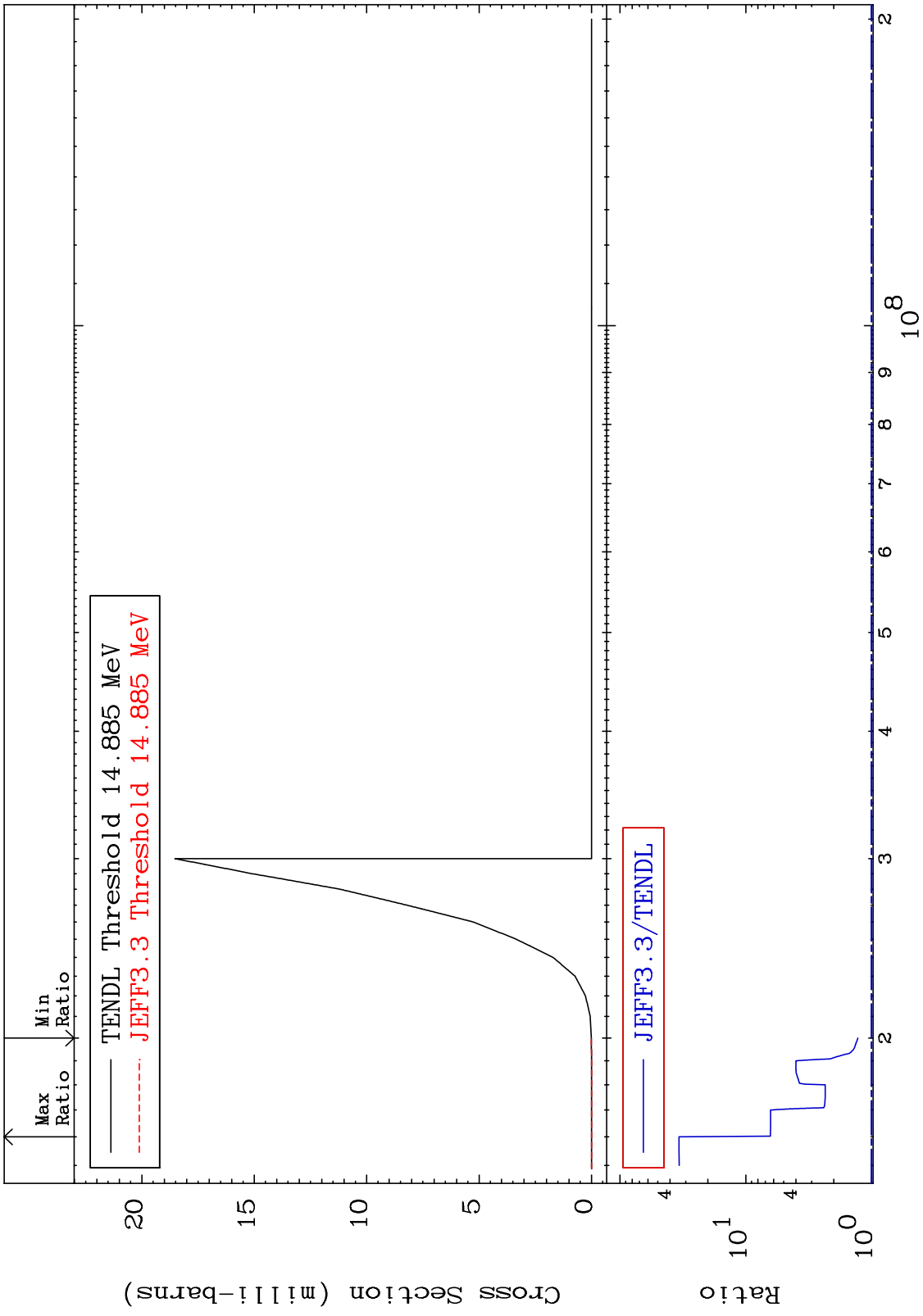


10 72-Hf-180

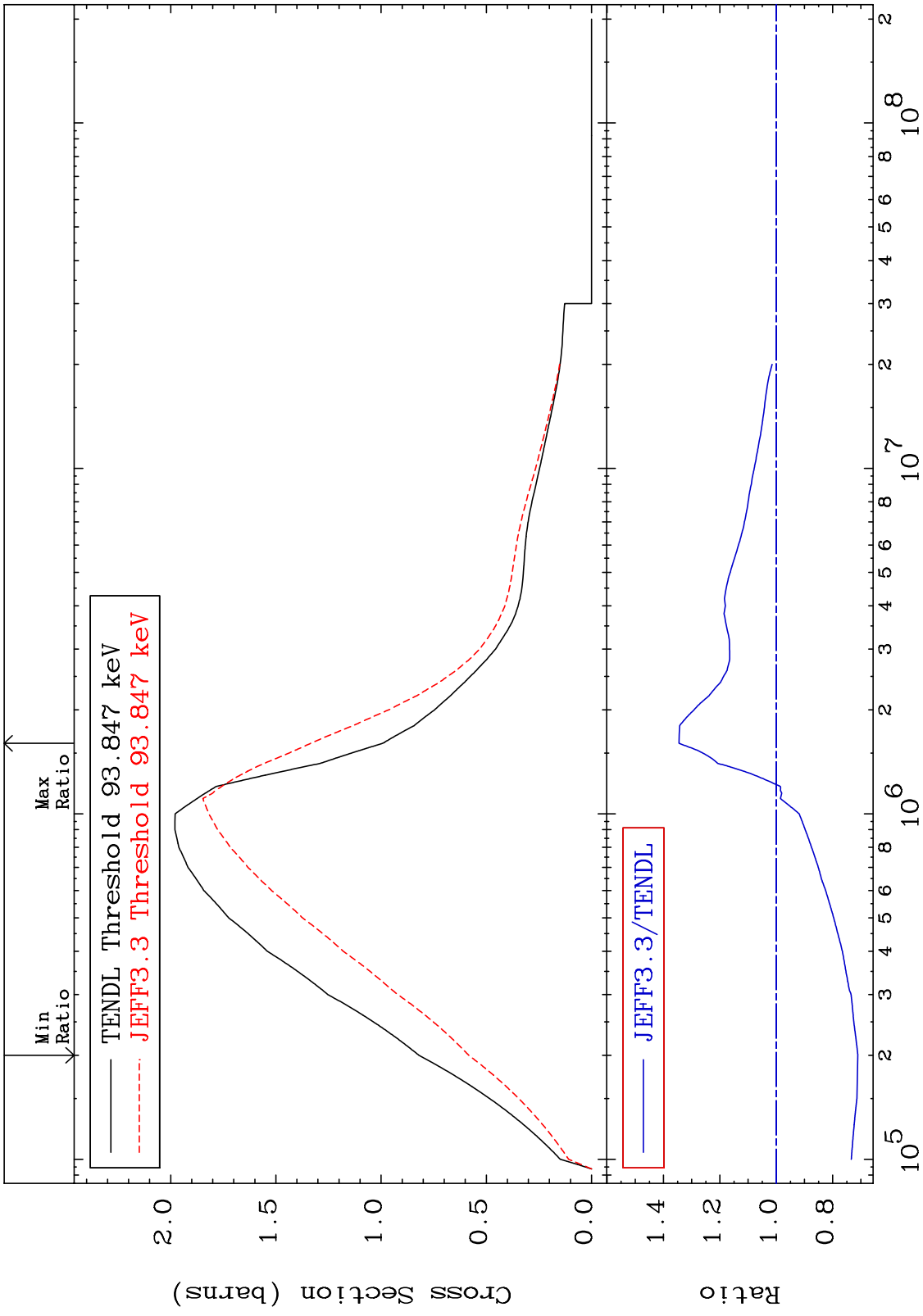
MAT 7243 (n,n') t 72-Hf-180
 Cross Section -94.93 To 92.39 %



MAT 7243 (n,2n) p 72-Hf-180
 Cross Section 28.71 To 3293. %

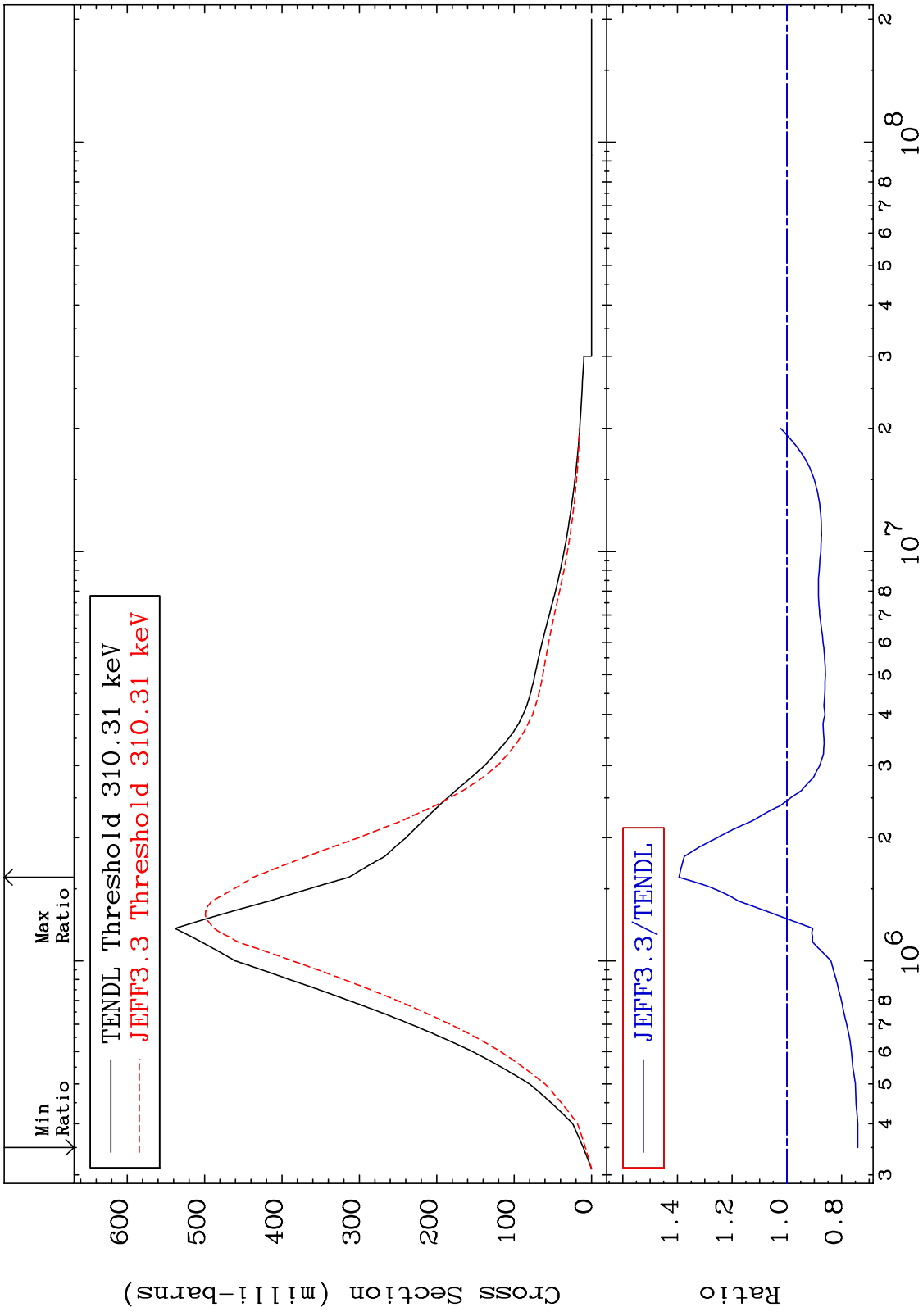


MAT 7243 MT= 51 (n,n') Level Cross Section 72-Hf-180
 -28.89 To 34.48 %

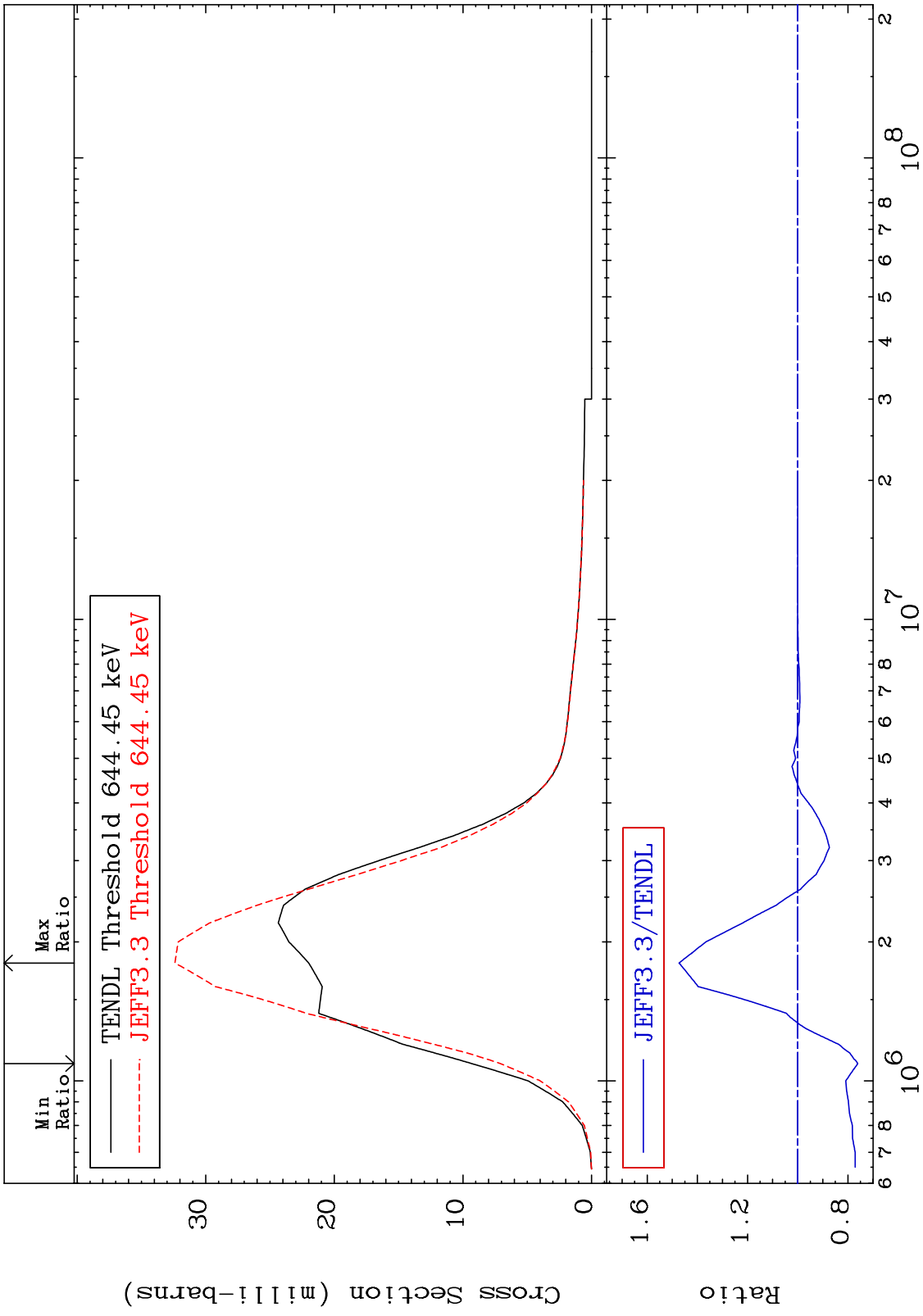


13 72-Hf-180

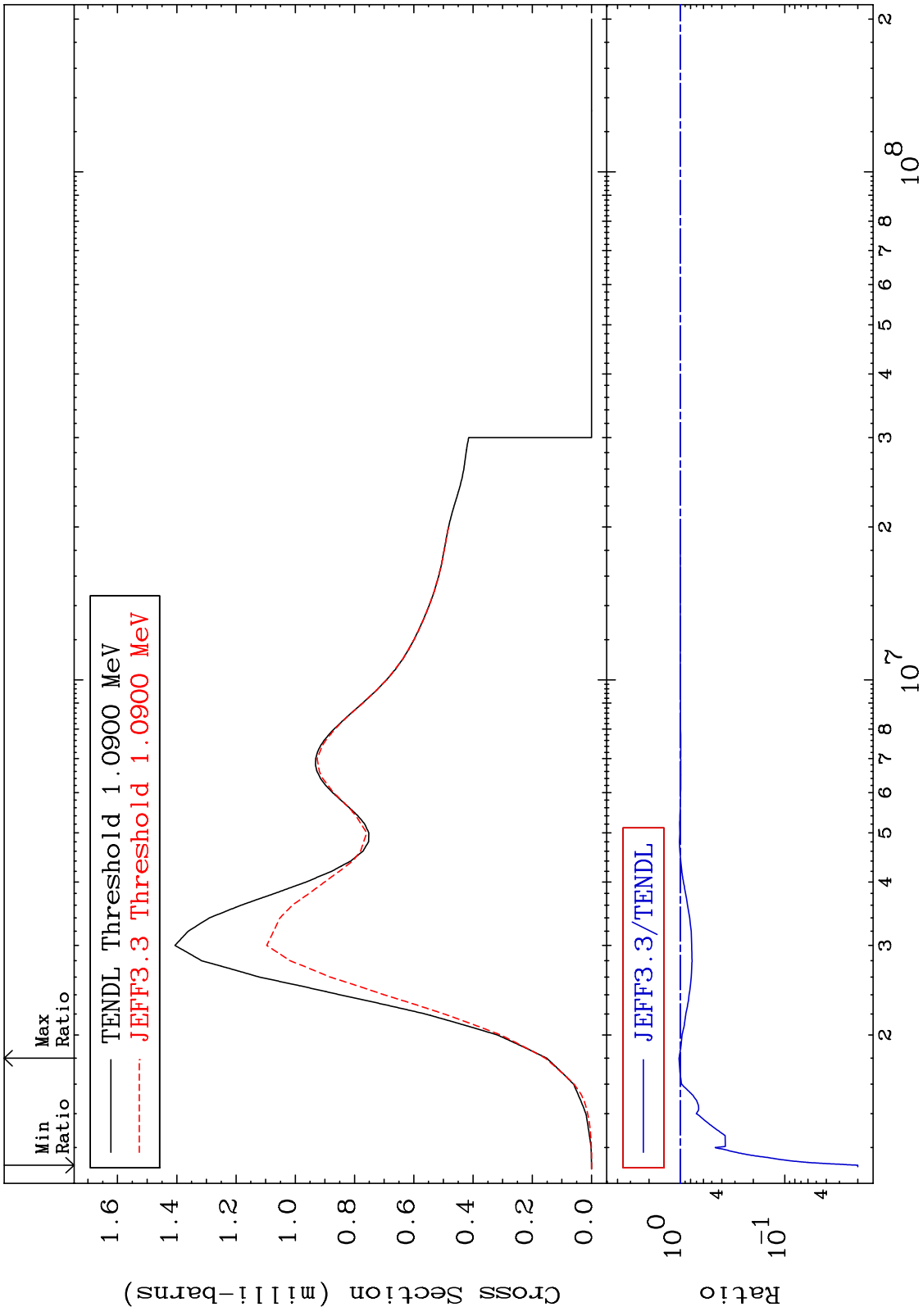
MAT 7243 MT= 52 (n,n') Level Cross Section 72-Hf-180
 -25.90 To 39.42 %



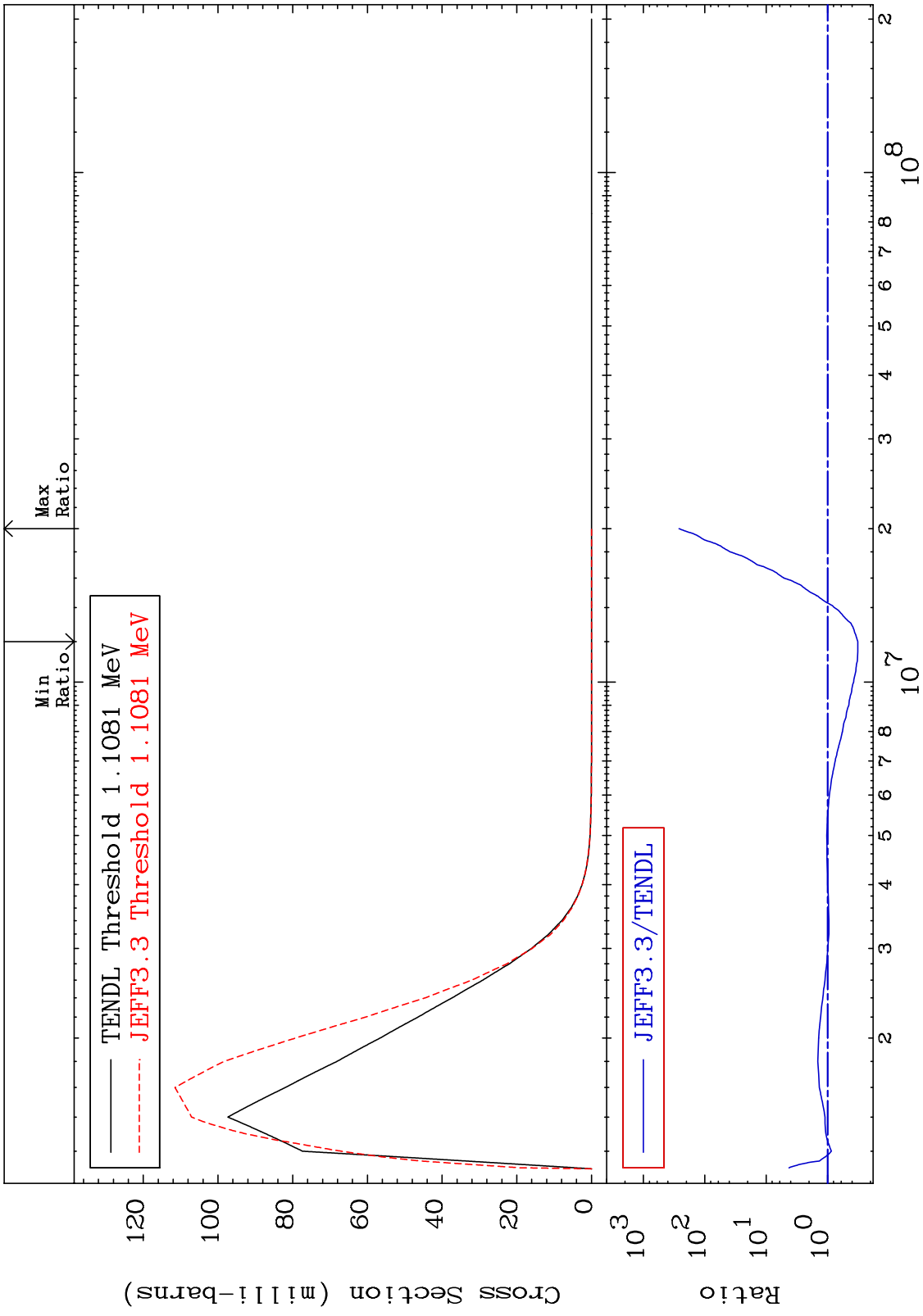
MAT 7243 MT= 53 (n,n') Level Cross Section 72-Hf-180
 -23.97 To 47.30 %



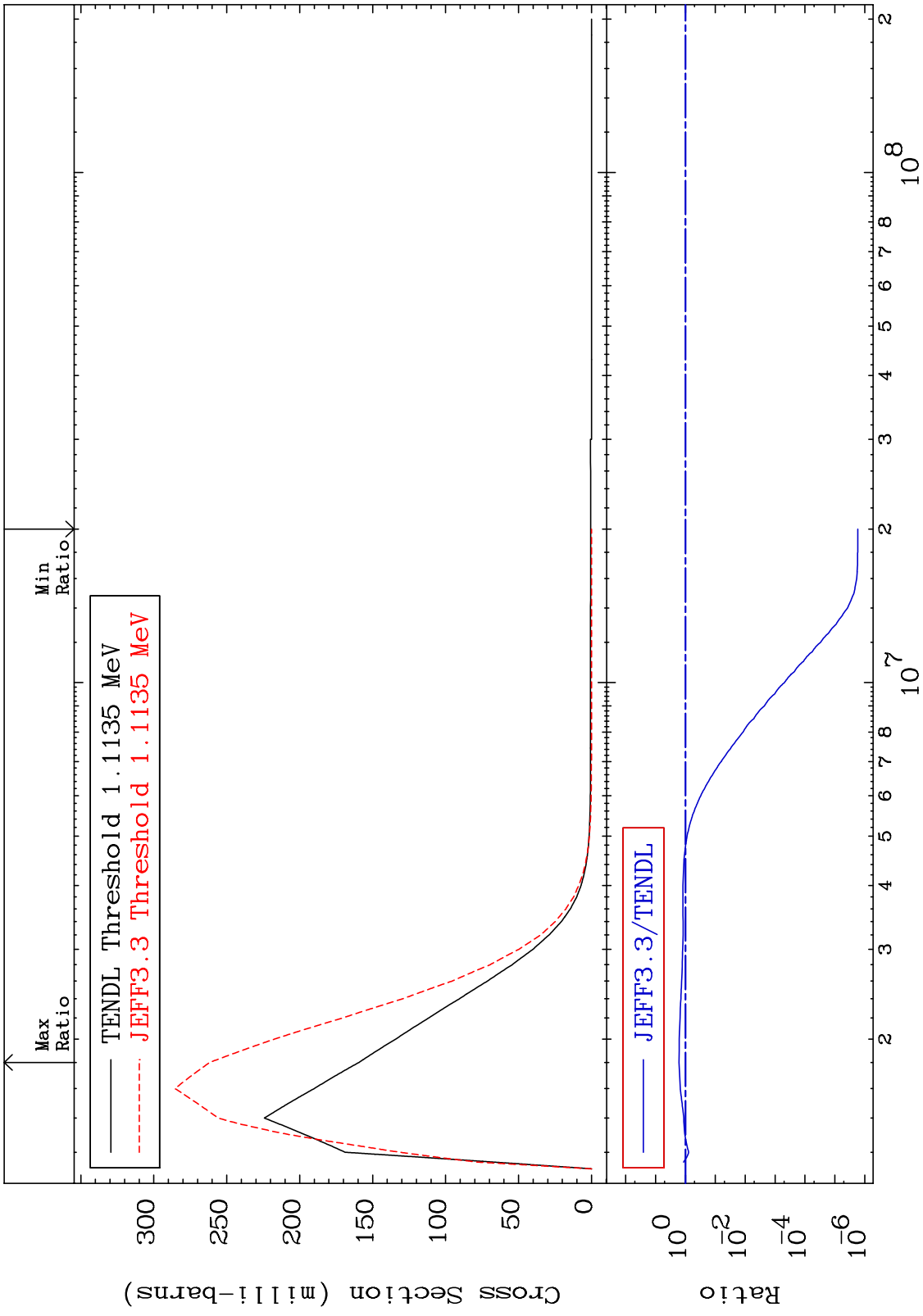
MAT 7243 MT= 54 (n,n') Level 72-Hf-180
 Cross Section -98.00 To 2.935 %



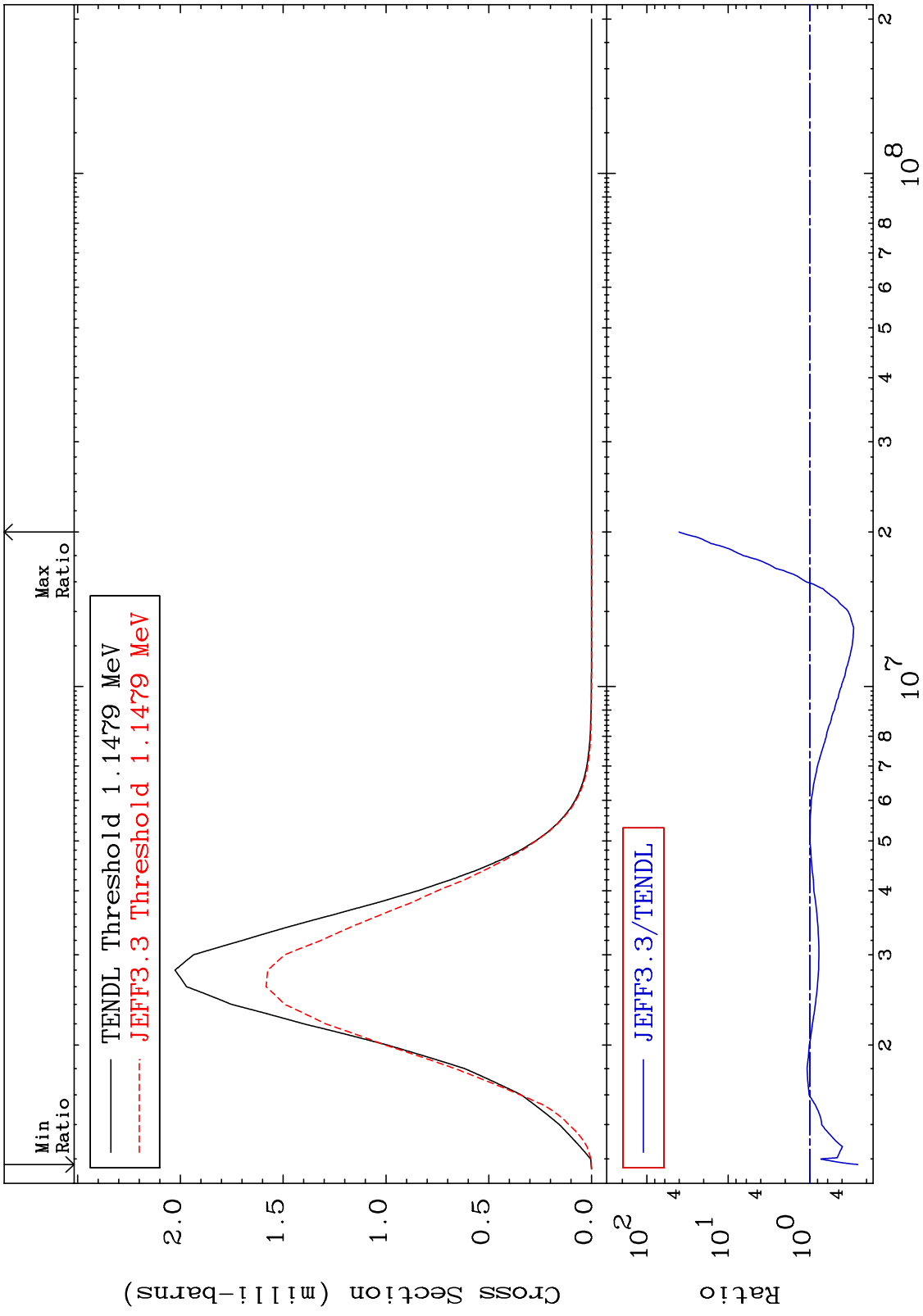
MAT 7243 MT= 55 (n,n') Level Cross Section 72-Hf-180 -67.87 To 9999. %



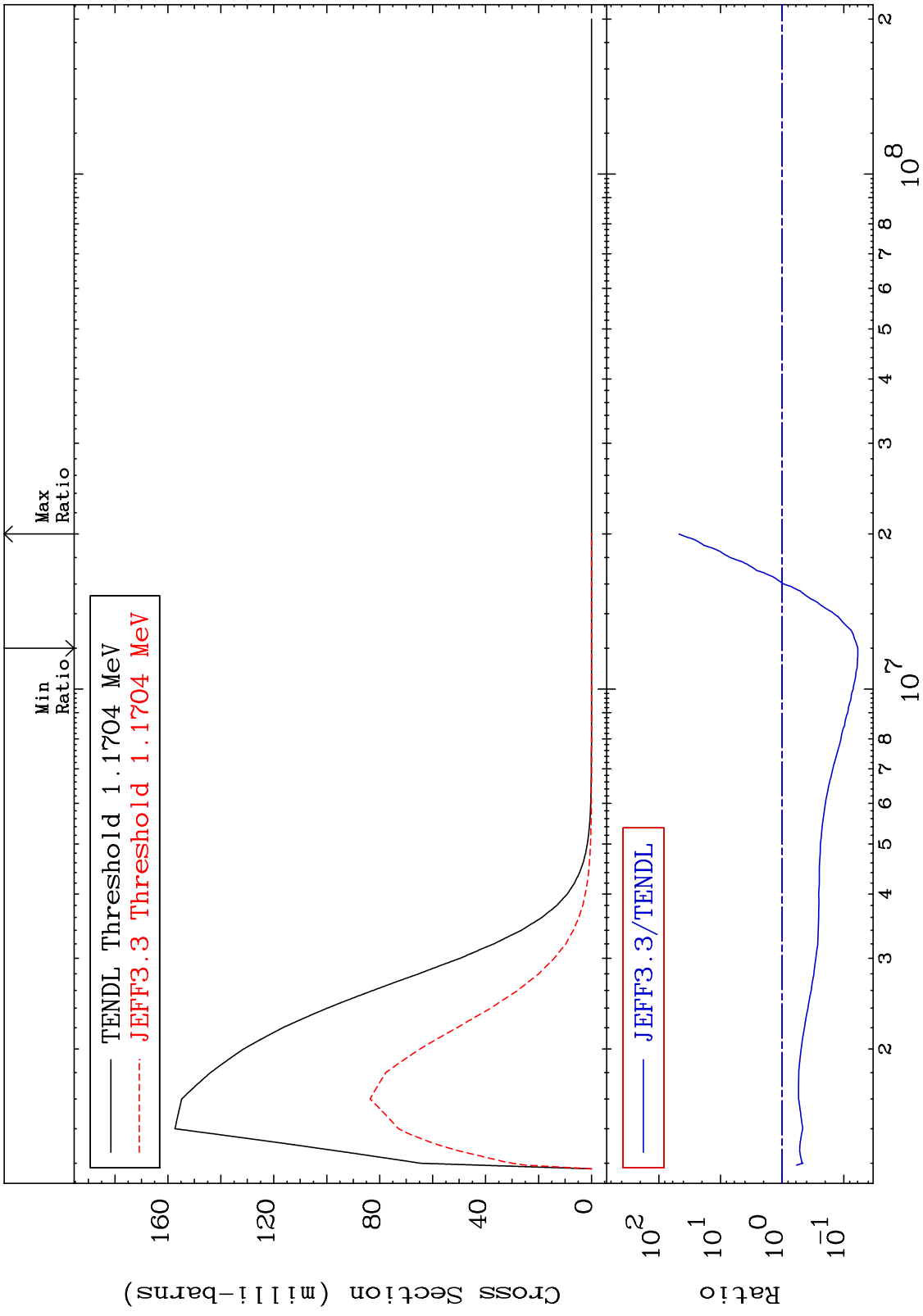
MAT 7243 MT= 56 (n,n') Level Cross Section 72-Hf-180
 -100.0 To 64.17 %



MAT 7243 MT= 57 (n,n') Level 72-Hf-180
 Cross Section -74.39 To 3917. %

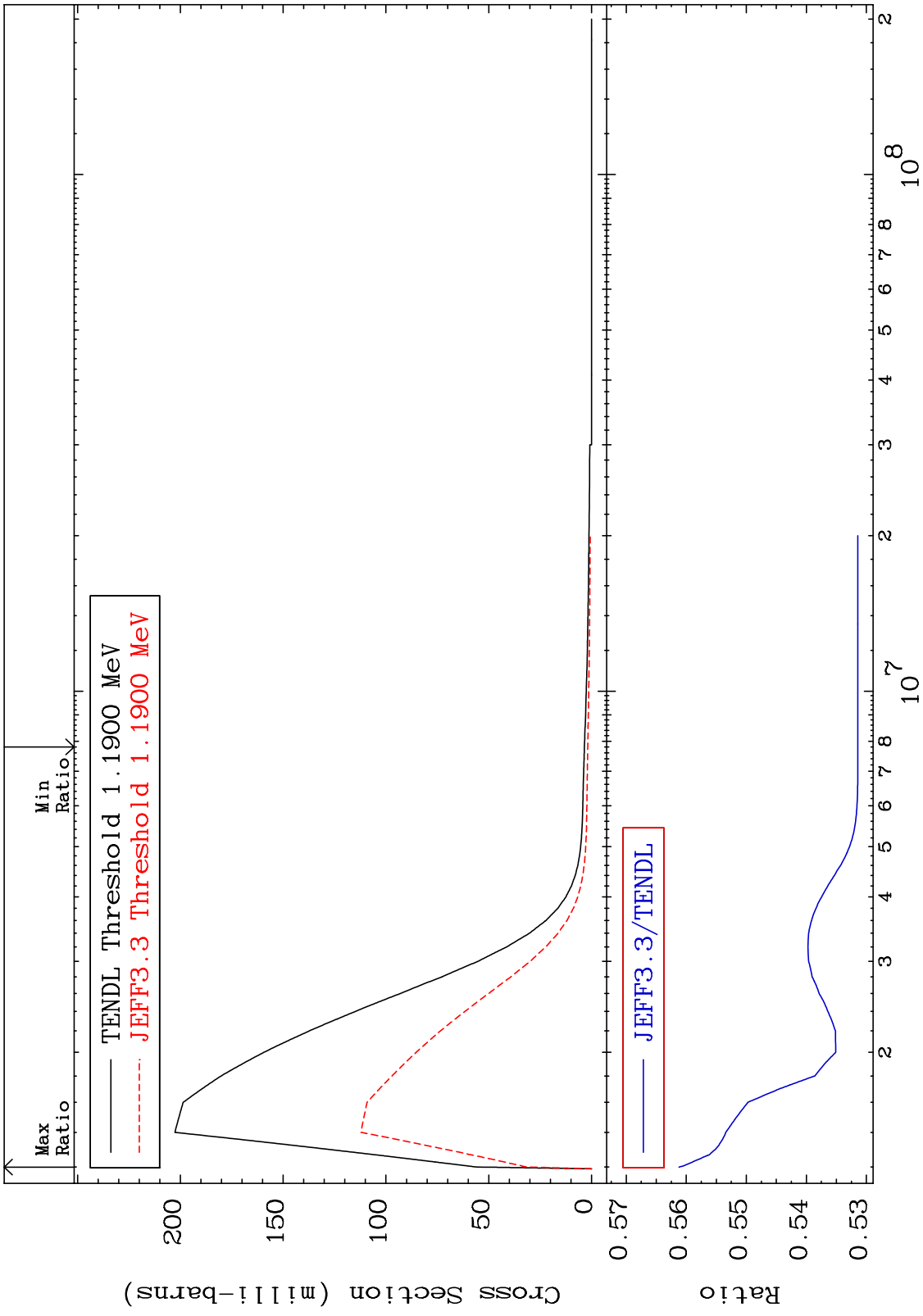


MAT 7243 MT= 58 (n,n') Level Cross Section 72-Hf-180 -94.08 To 4607. %

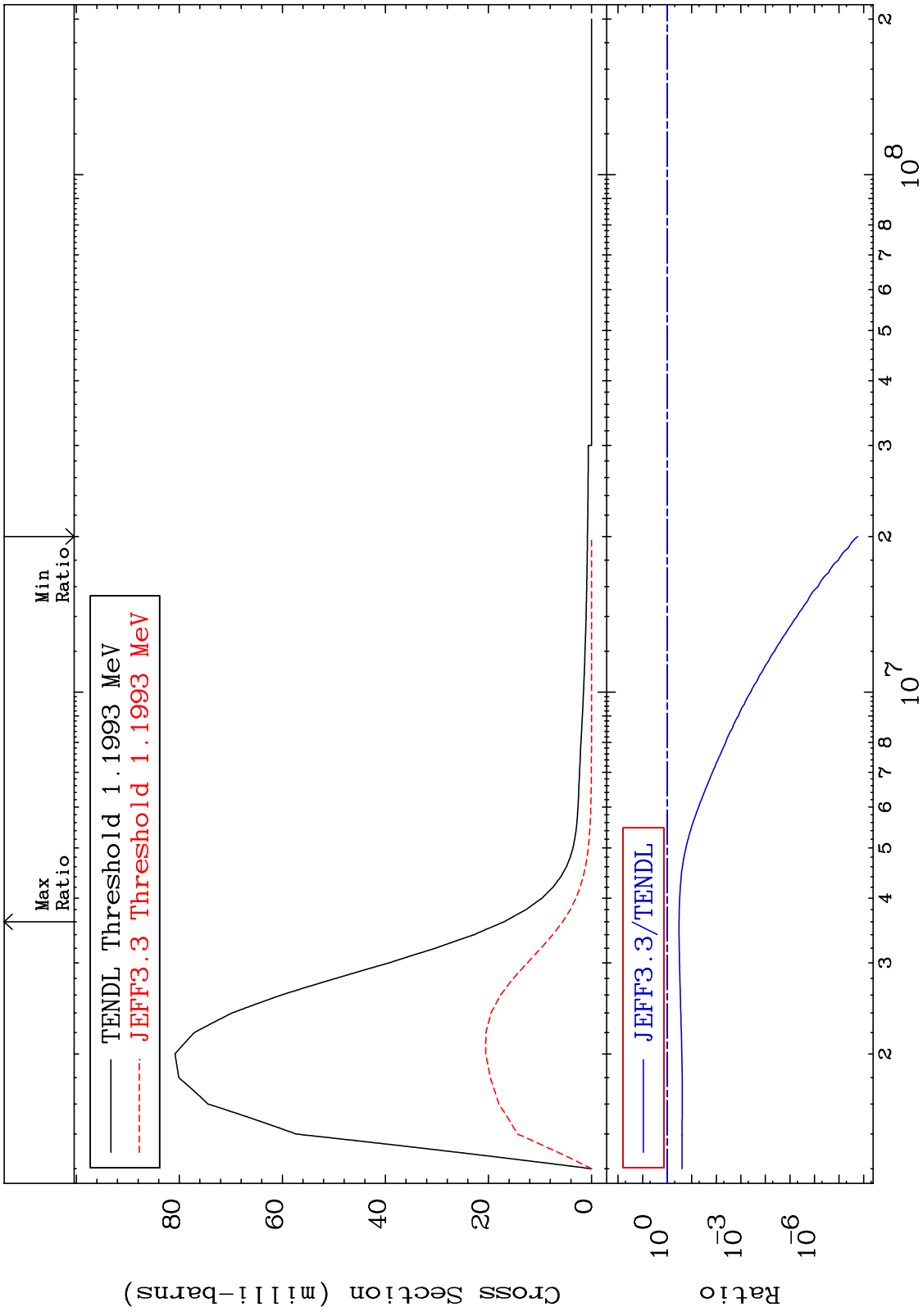


20 72-Hf-180

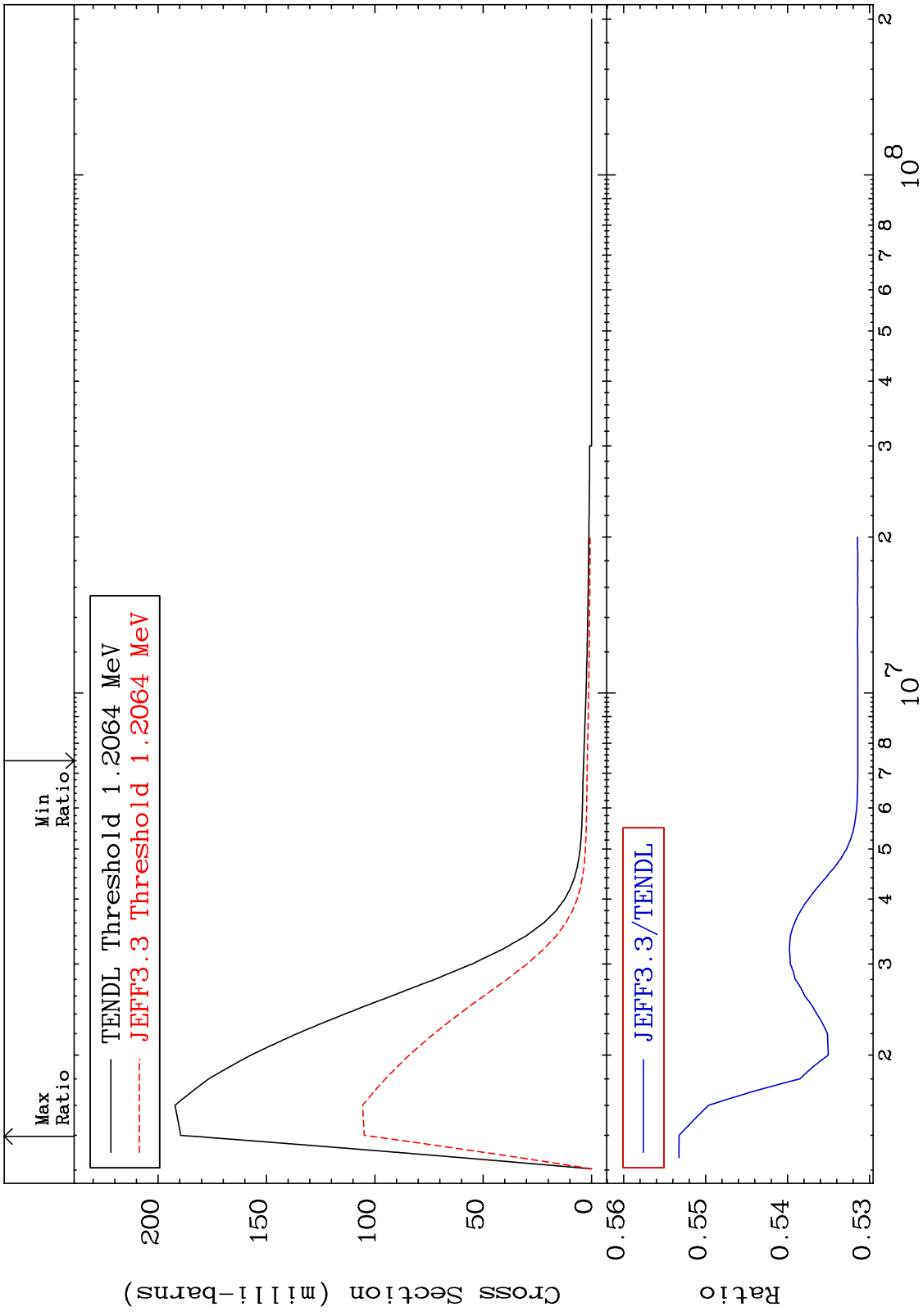
MAT 7243 MT= 59 (n,n') Level Cross Section 72-Hf-180
 -46.86 To -43.88%



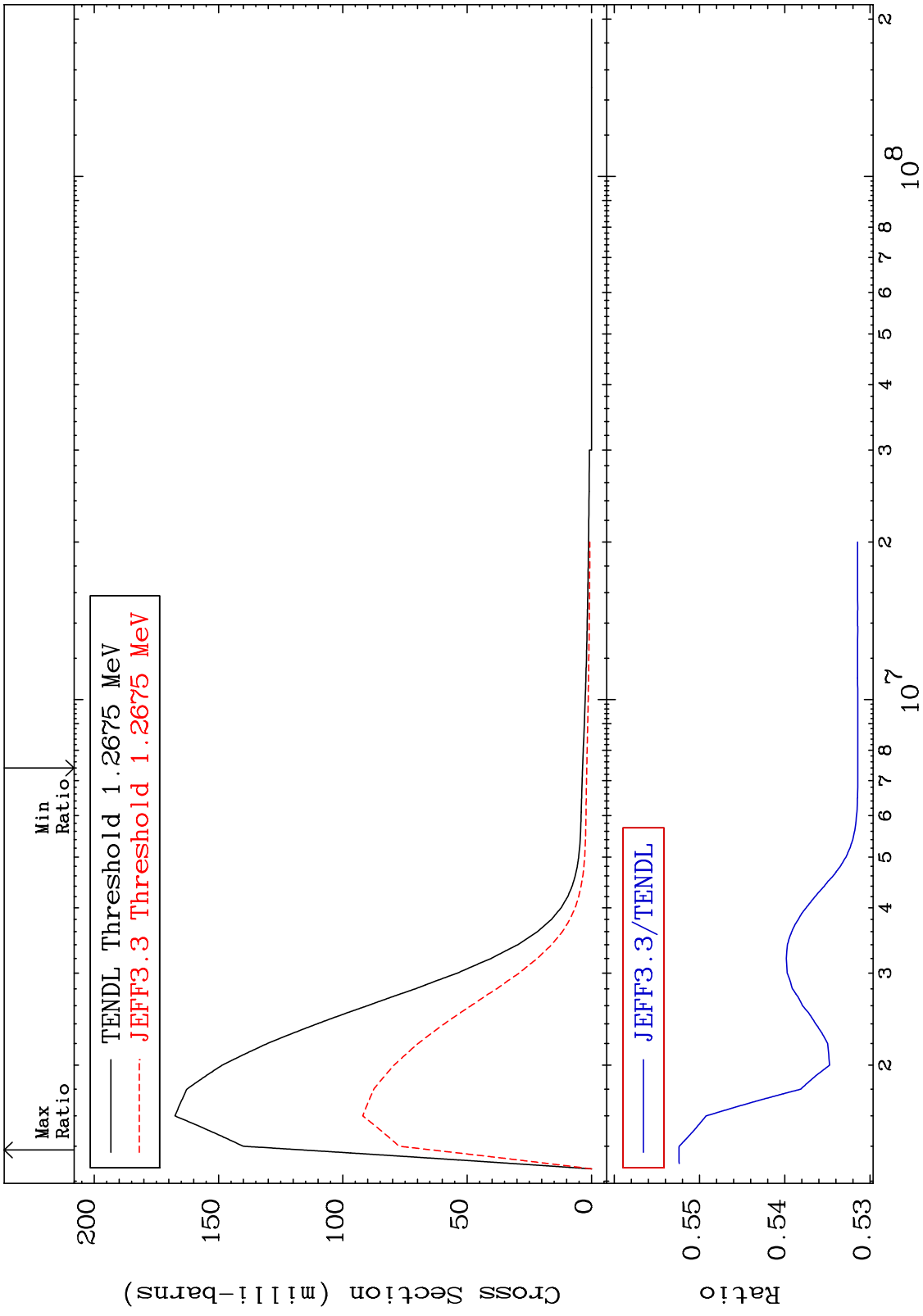
MAT 7243 MT= 60 (n,n') Level Cross Section 72-Hf-180
 -100.0 To -67.12%



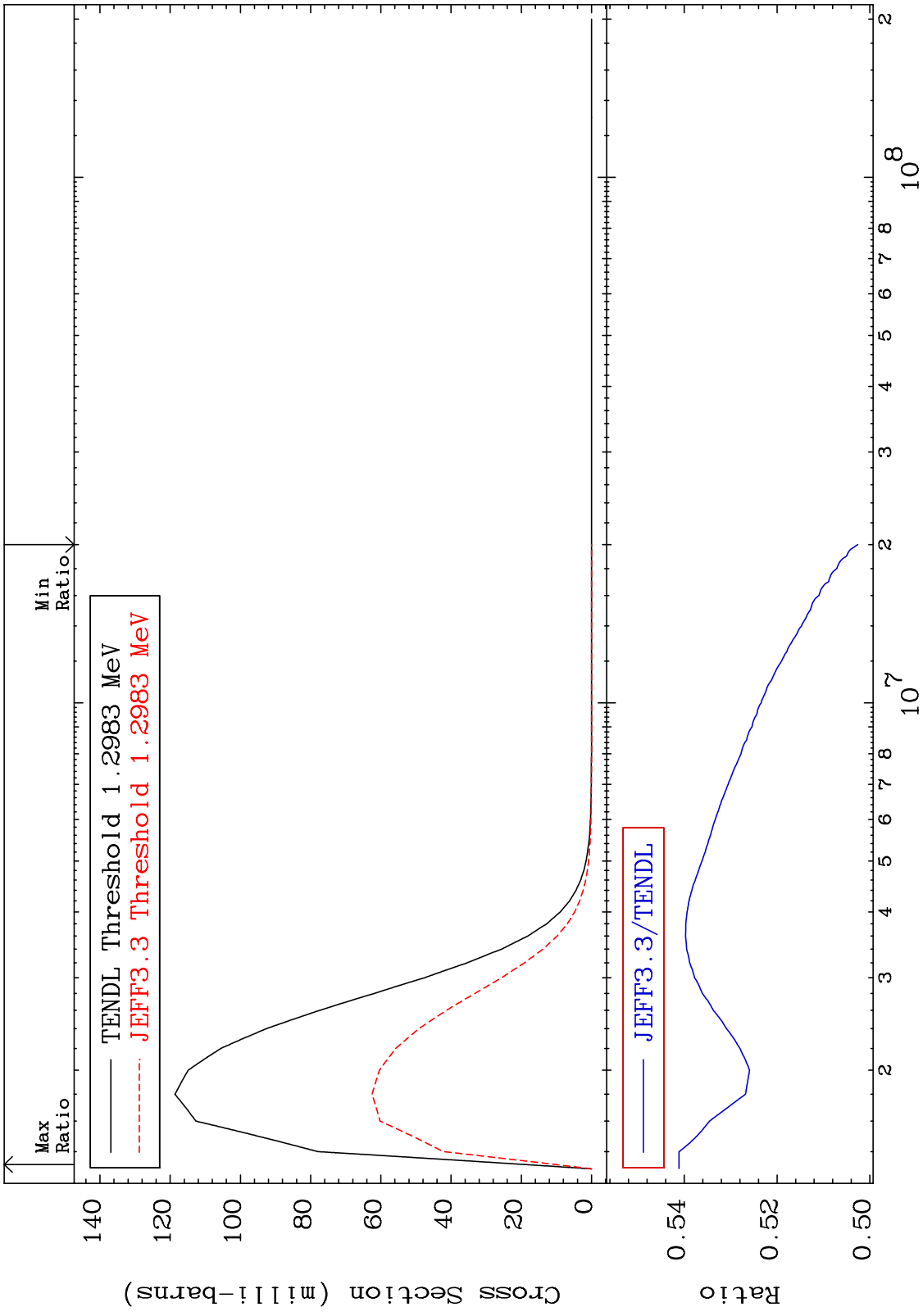
MAT 7243 MT= 61 (n,n') Level Cross Section 72-Hf-180
 -46.86 To -44.68%



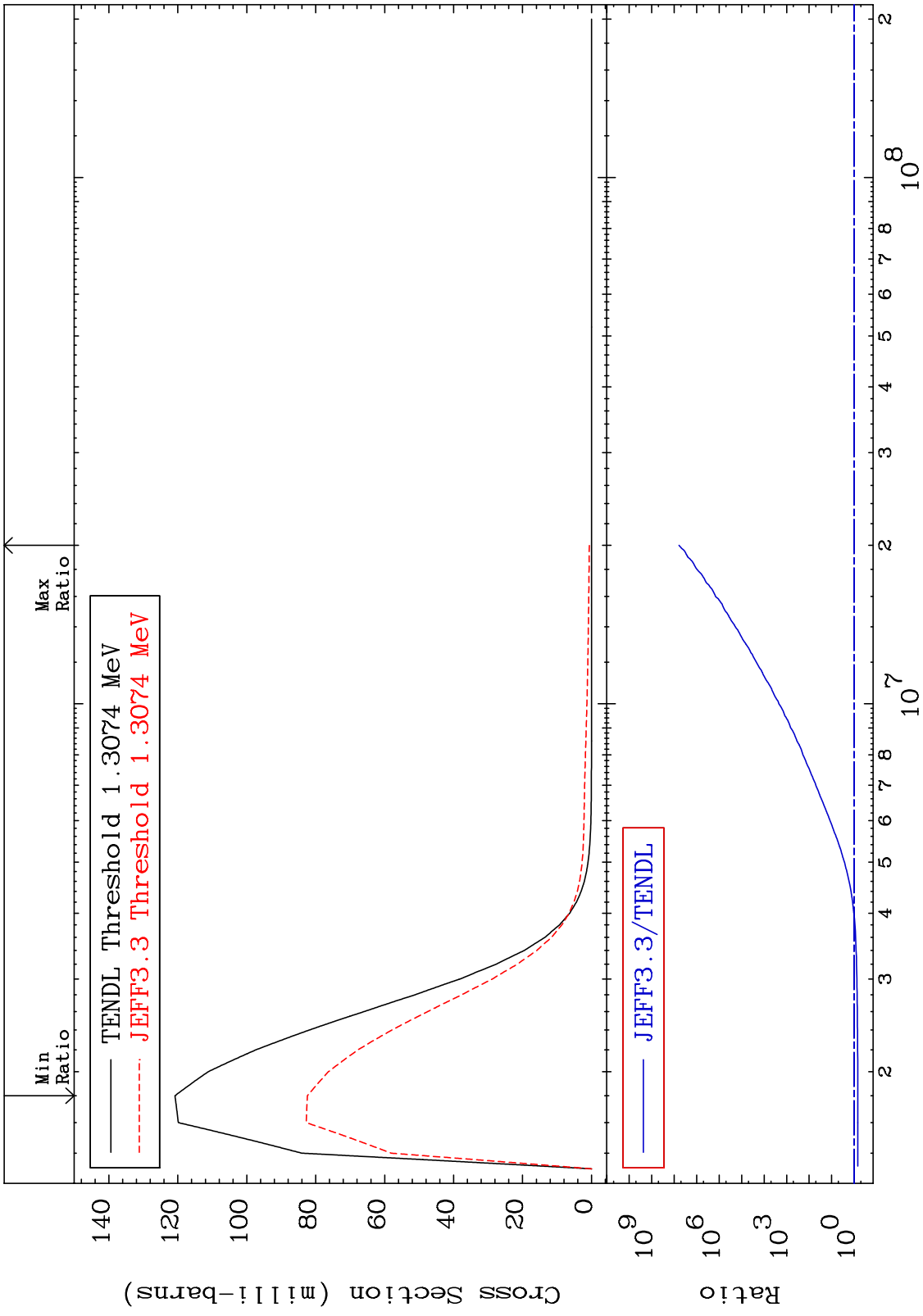
MAT 7243 MT= 62 (n,n') Level Cross Section 72-Hf-180
 -46.86 To -44.76%



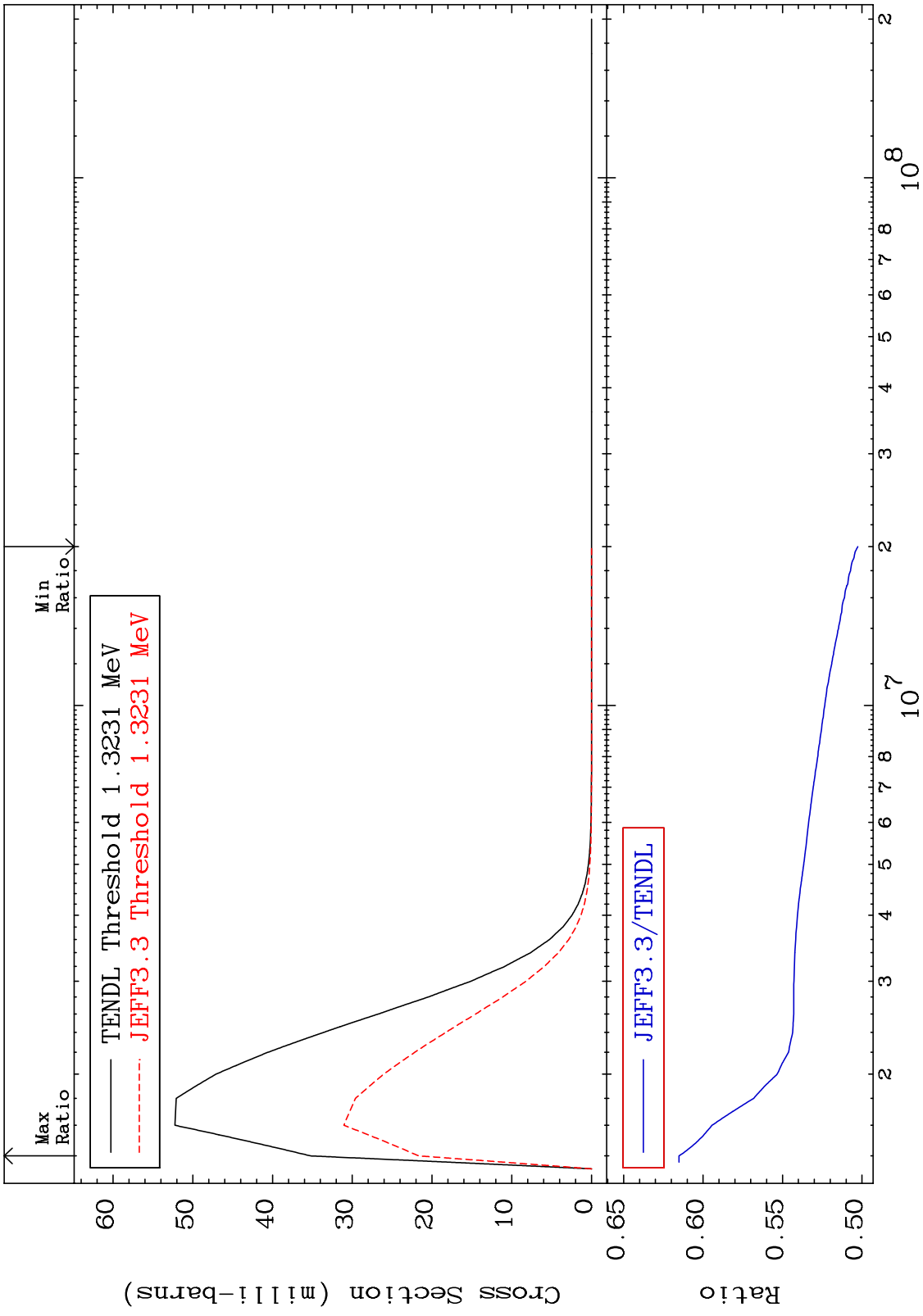
MAT 7243 MT= 63 (n,n') Level Cross Section 72-Hf-180
 -49.74 To -45.89%



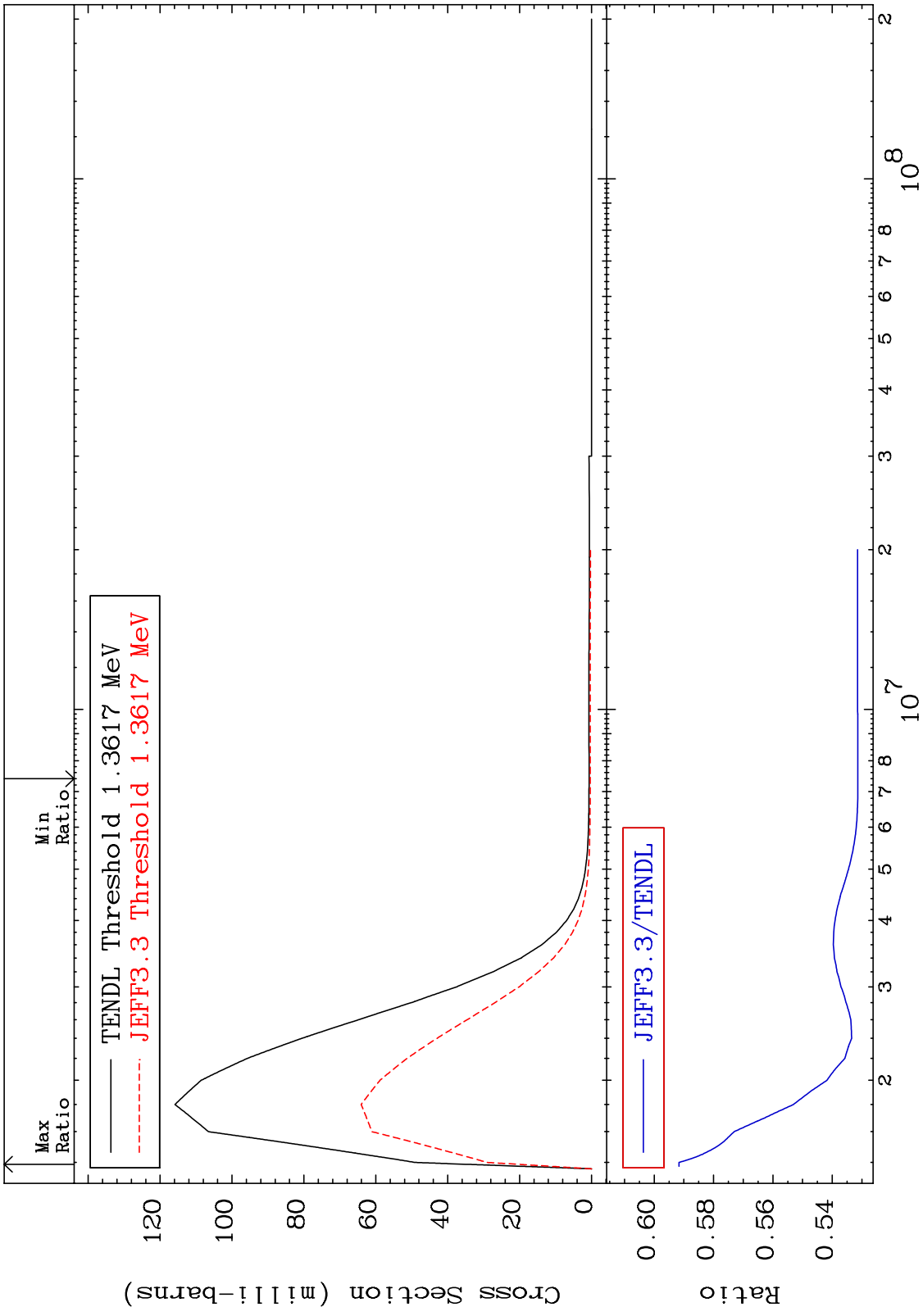
MAT 7243 MT= 64 (n,n') Level Cross Section 72-Hf-180
 -31.77 To 9999. %



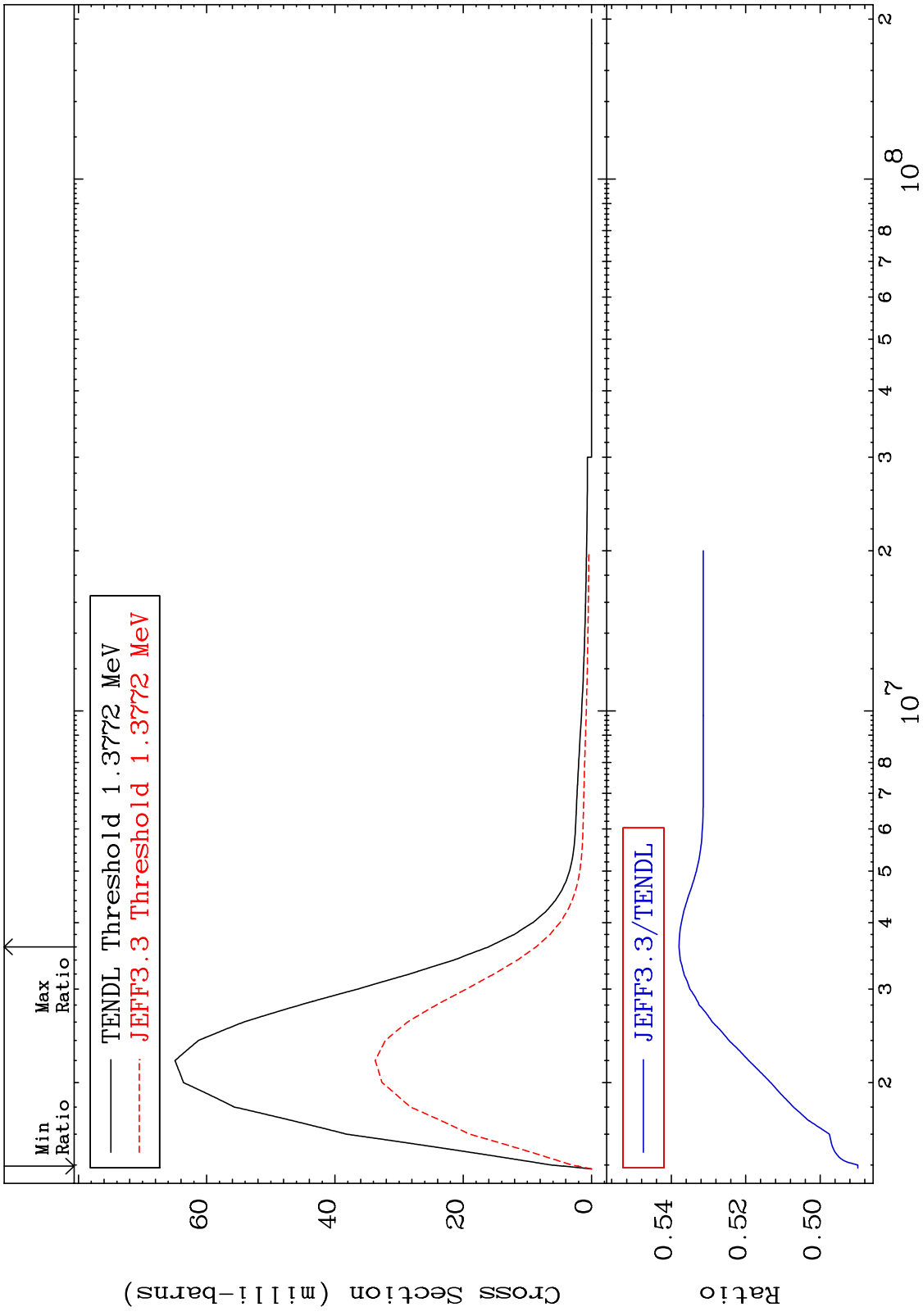
MAT 7243 MT= 65 (n,n') Level Cross Section 72-Hf-180
 -49.74 To -38.49%



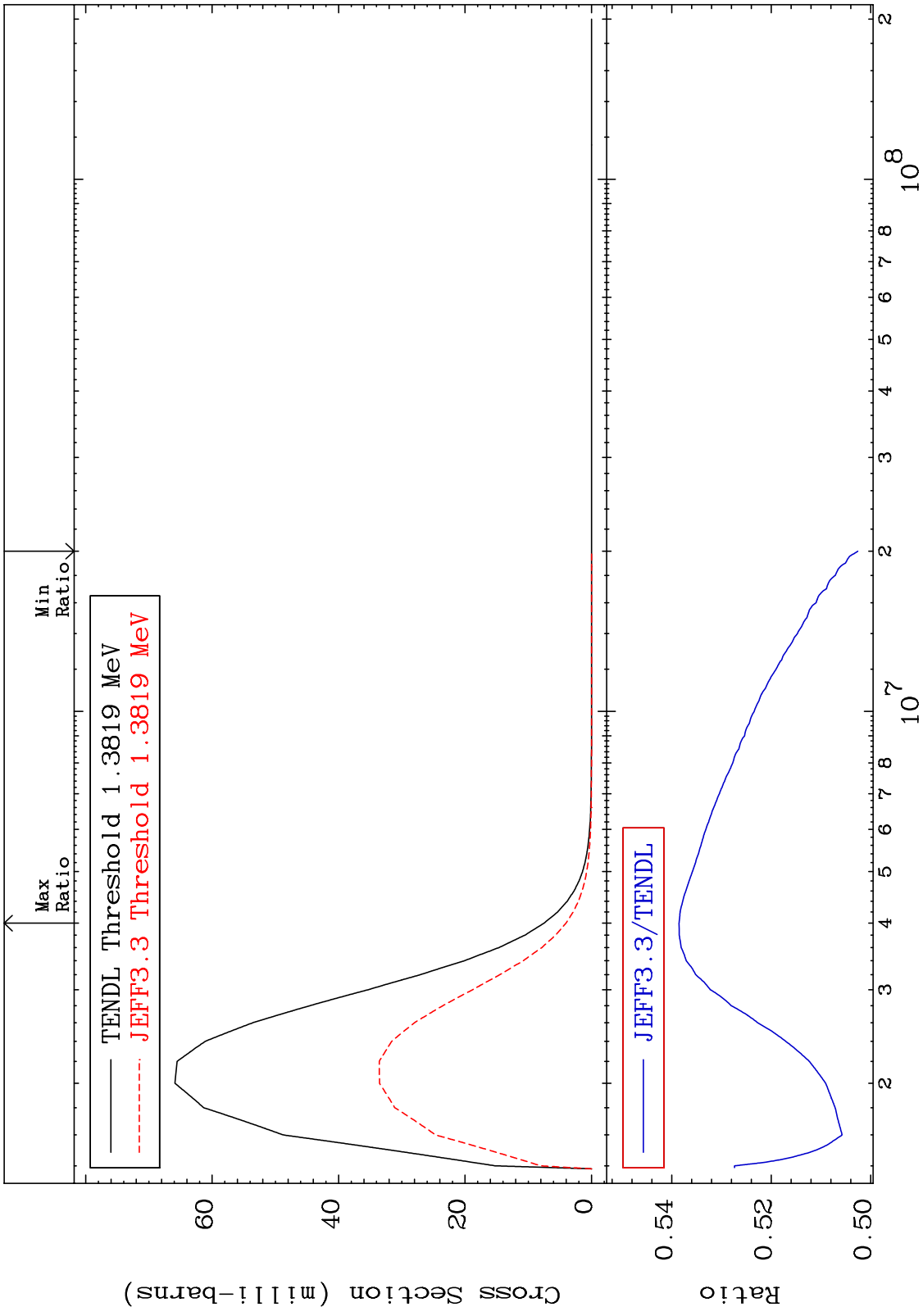
MAT 7243 MT= 66 (n,n') Level Cross Section 72-Hf-180
 -46.86 To -40.84%



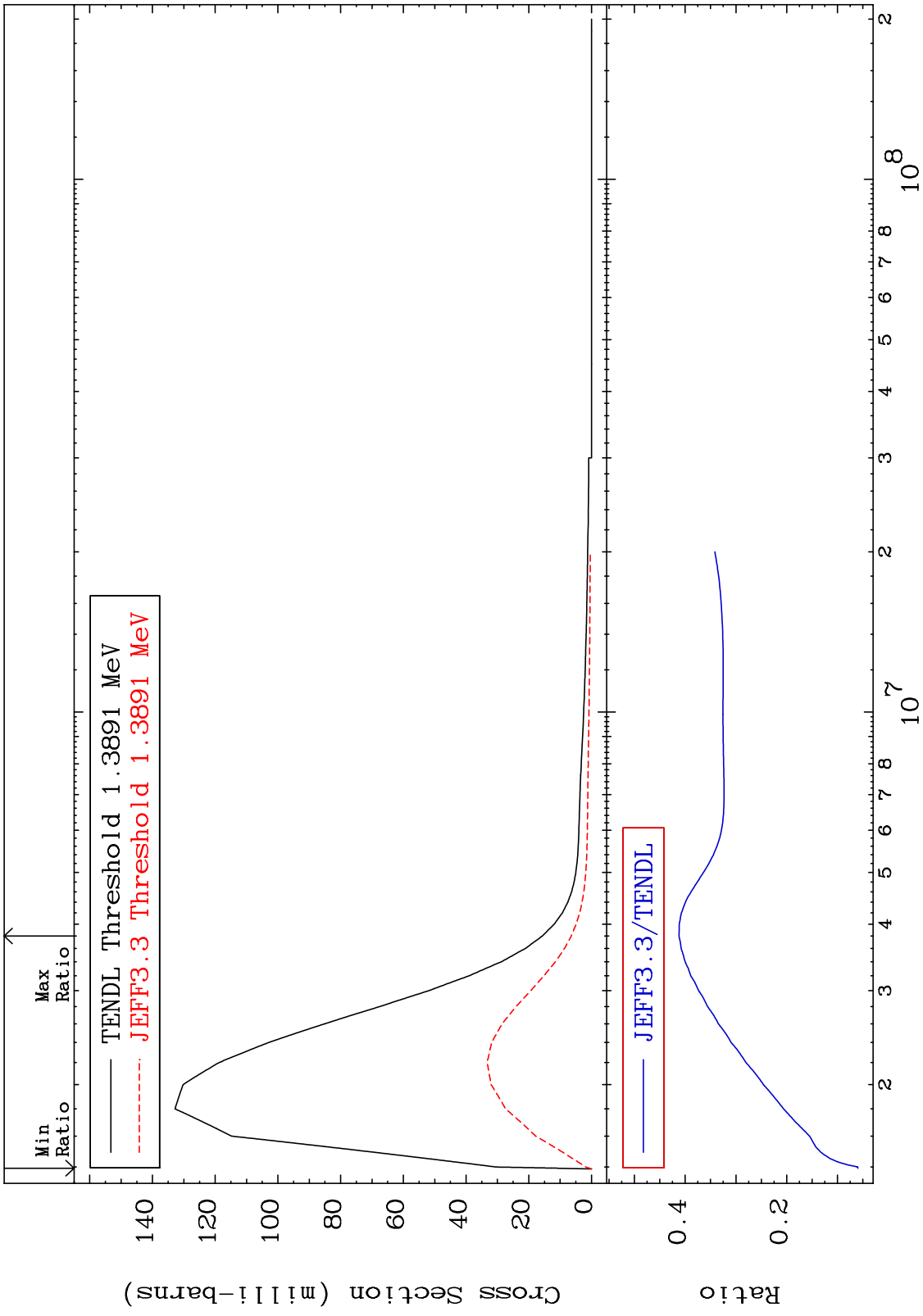
MAT 7243 MT= 67 (n,n') Level Cross Section 72-Hf-180 -51.01 To -46.21%



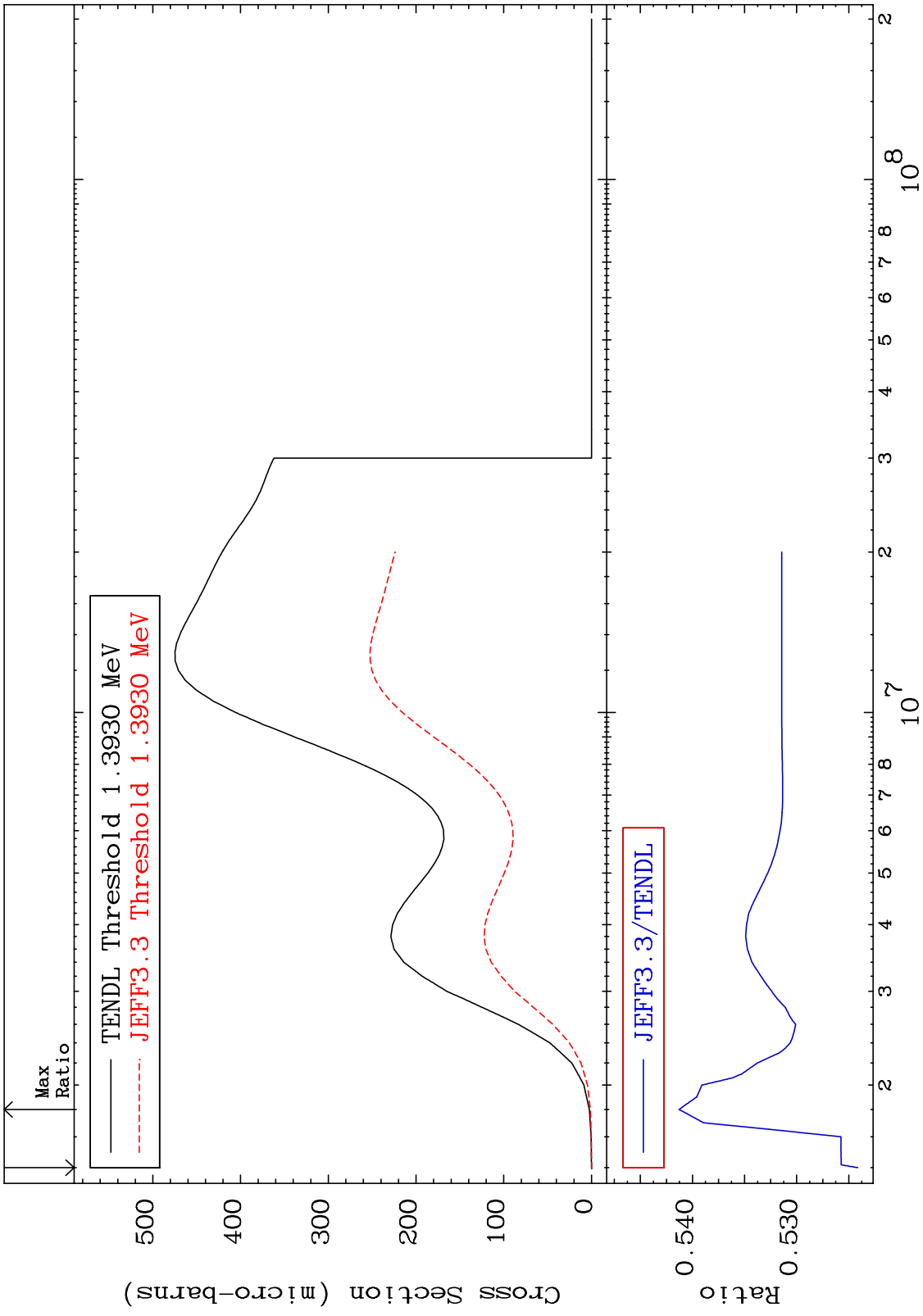
MAT 7243 MT= 68 (n,n') Level Cross Section 72-Hf-180
 -49.74 To -46.15%



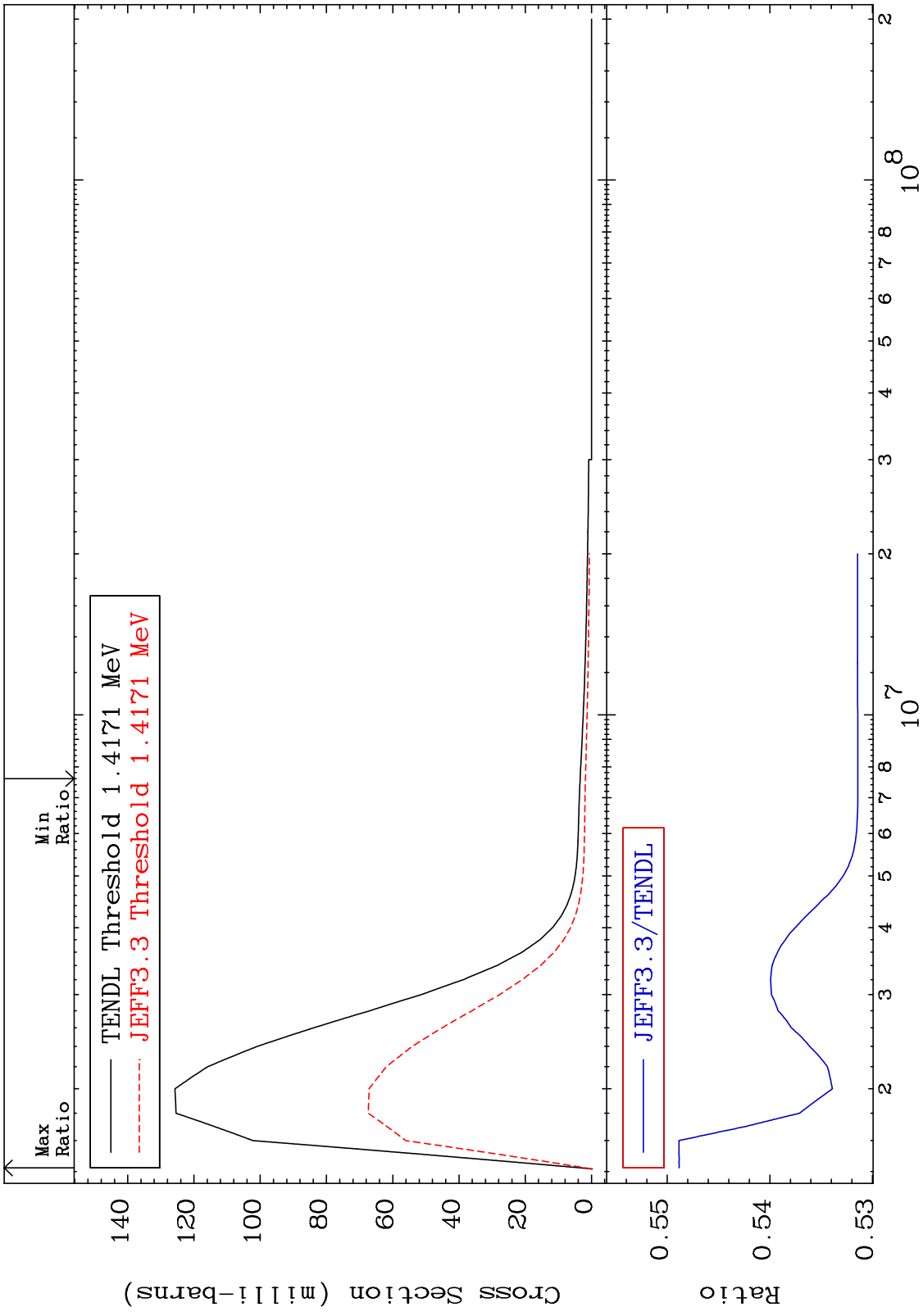
MAT 7243 MT= 69 (n,n') Level Cross Section 72-Hf-180
 -94.00 To -58.80%



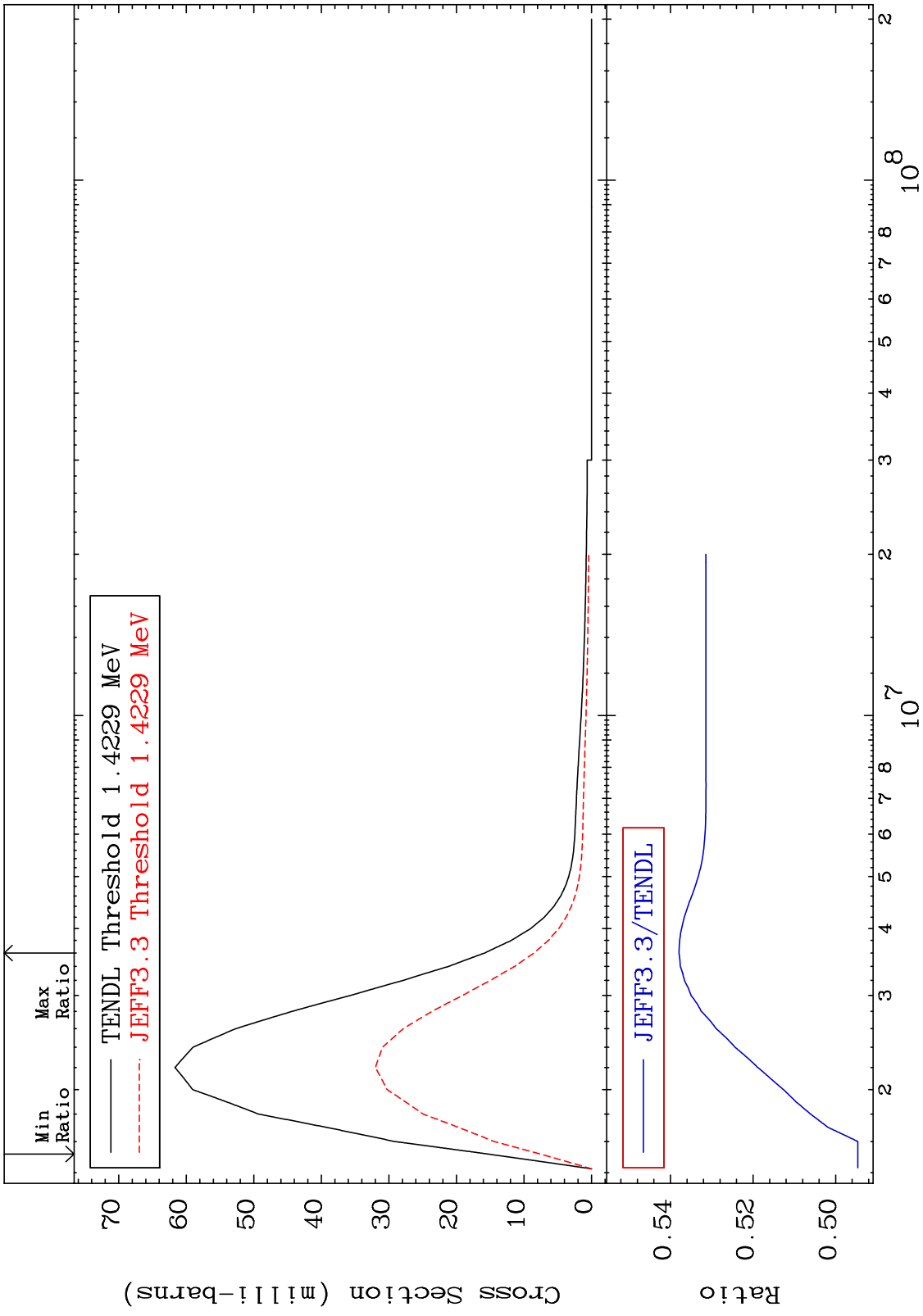
MAT 7243 MT= 70 (n,n') Level Cross Section 72-Hf-180
 -47.59 To -45.87%



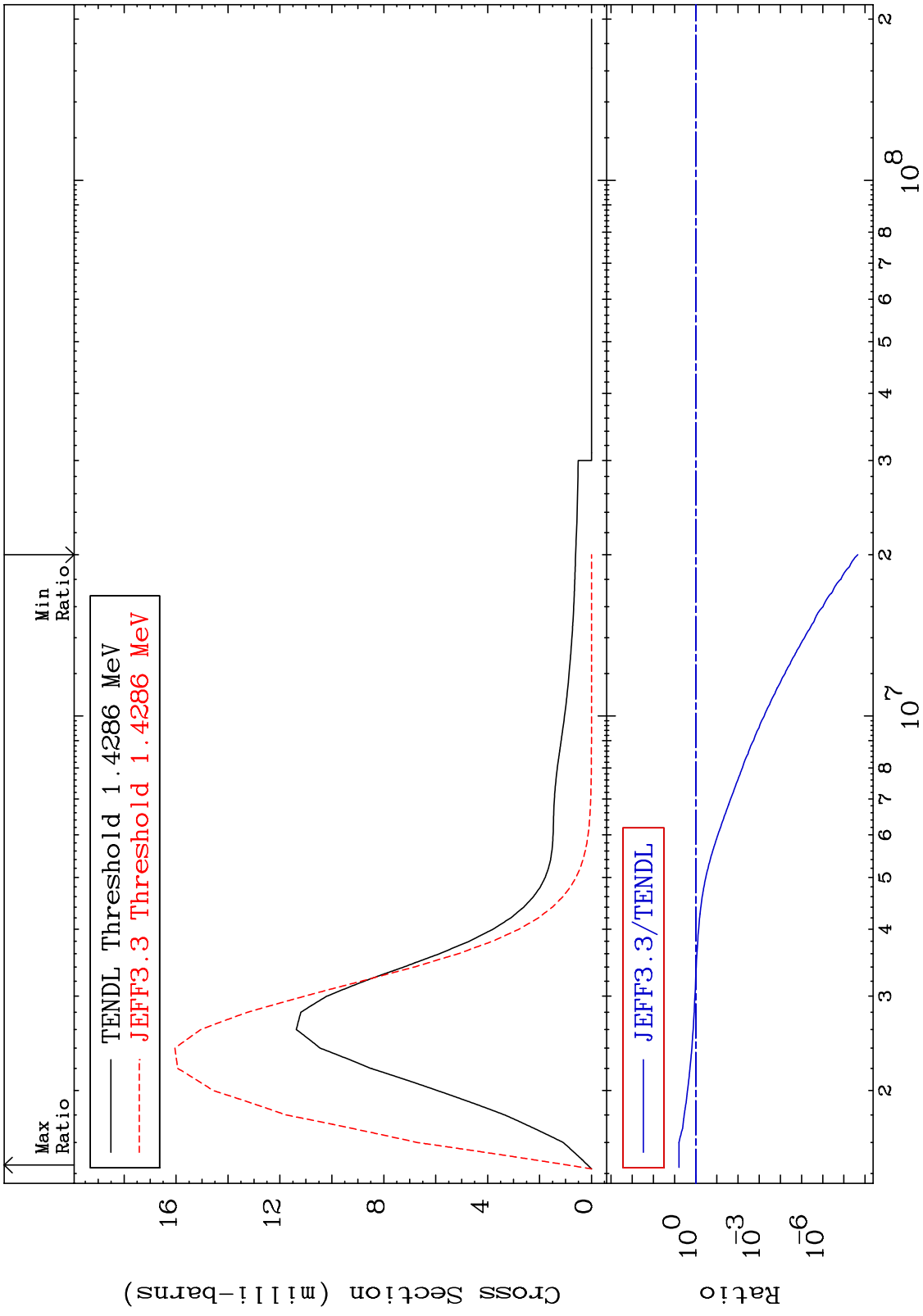
MAT 7243 MT= 71 (n,n') Level Cross Section 72-Hf-180
 -46.86 To -45.11%



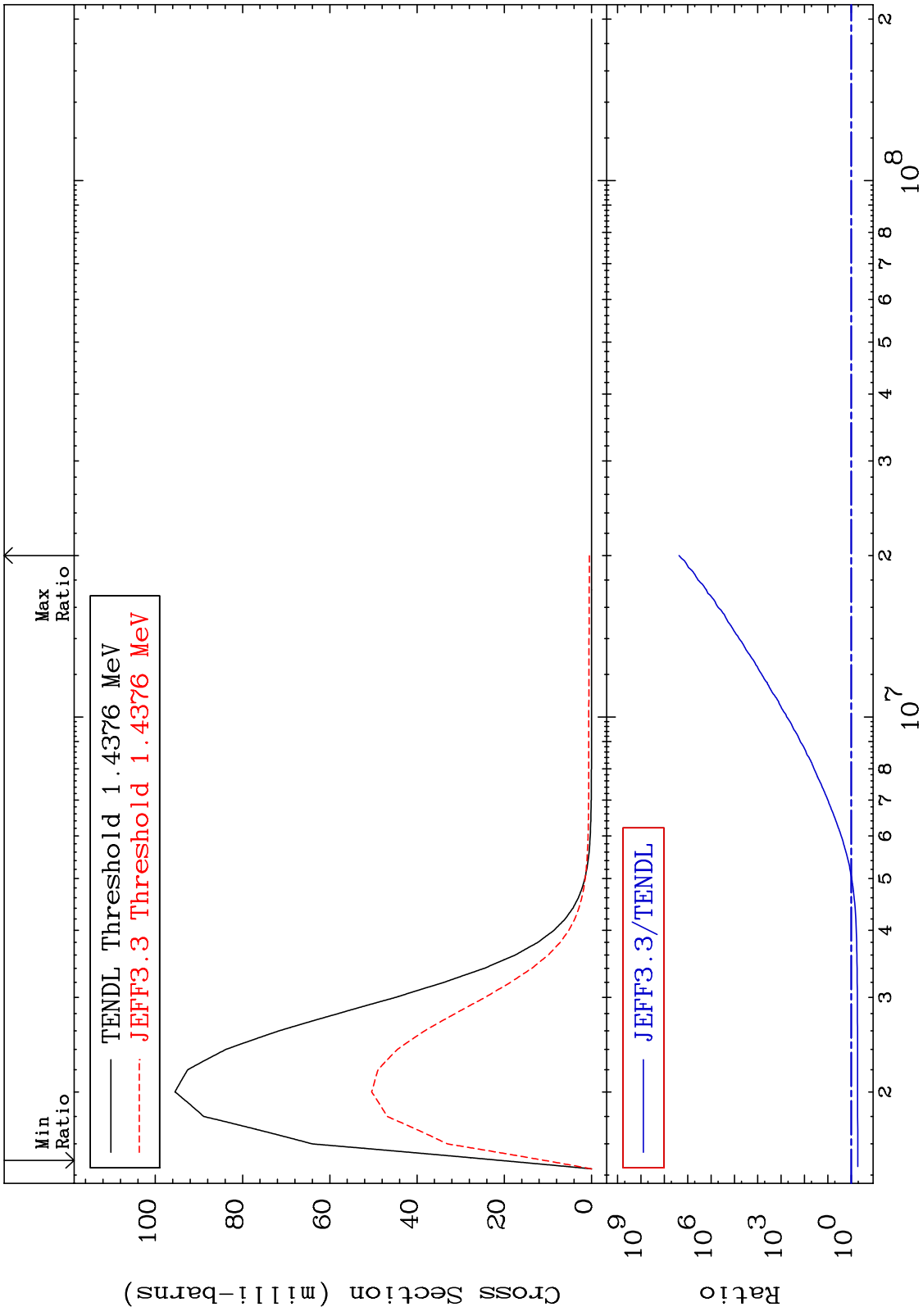
MAT 7243 MT= 72 (n,n') Level Cross Section 72-Hf-180
 -50.54 To -46.21%



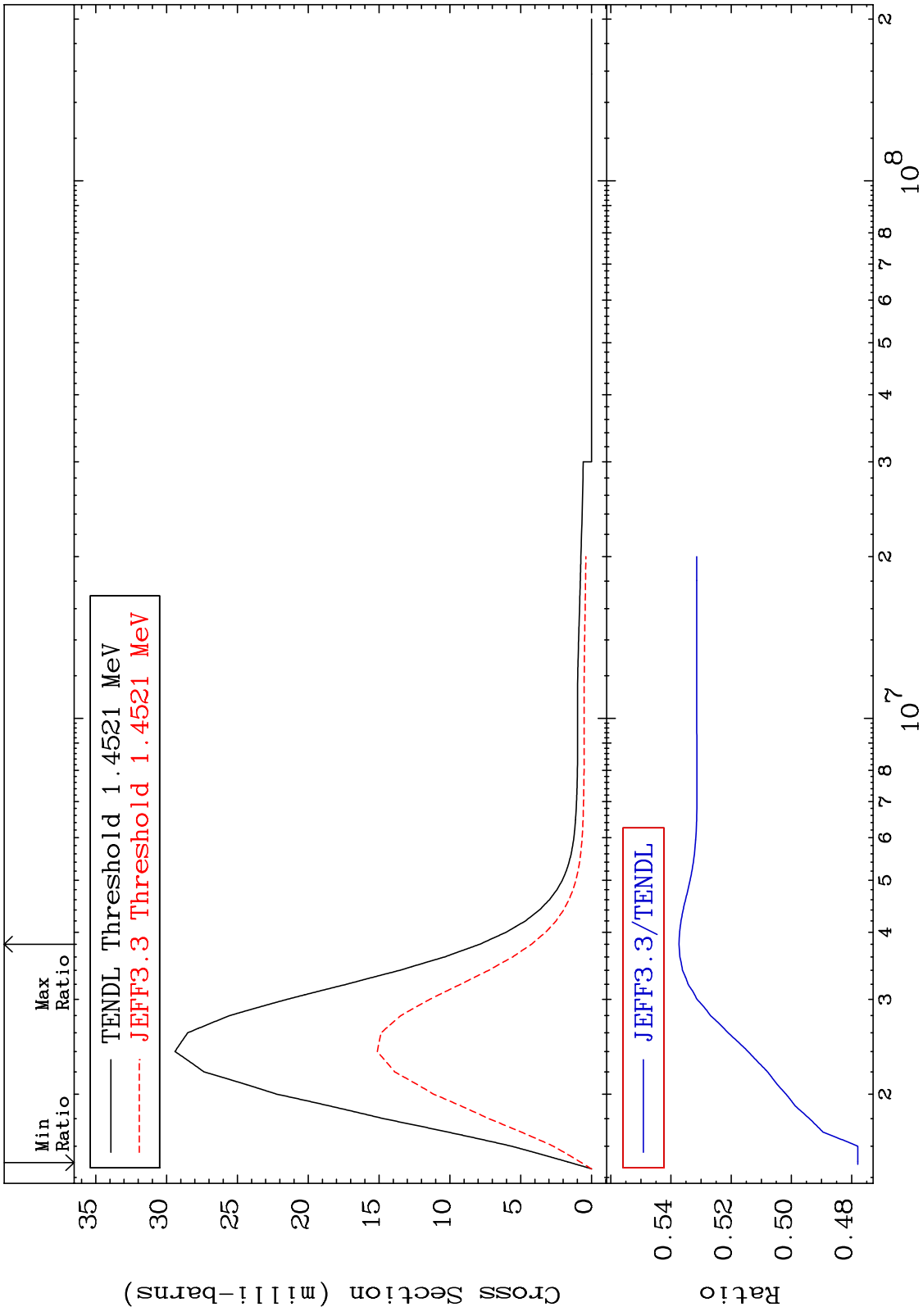
MAT 7243 MT= 73 (n,n') Level Cross Section 72-Hf-180
 -100.0 To 515.0 %



MAT 7243 MT= 74 (n,n') Level Cross Section 72-Hf-180
 -48.37 To 9999. %

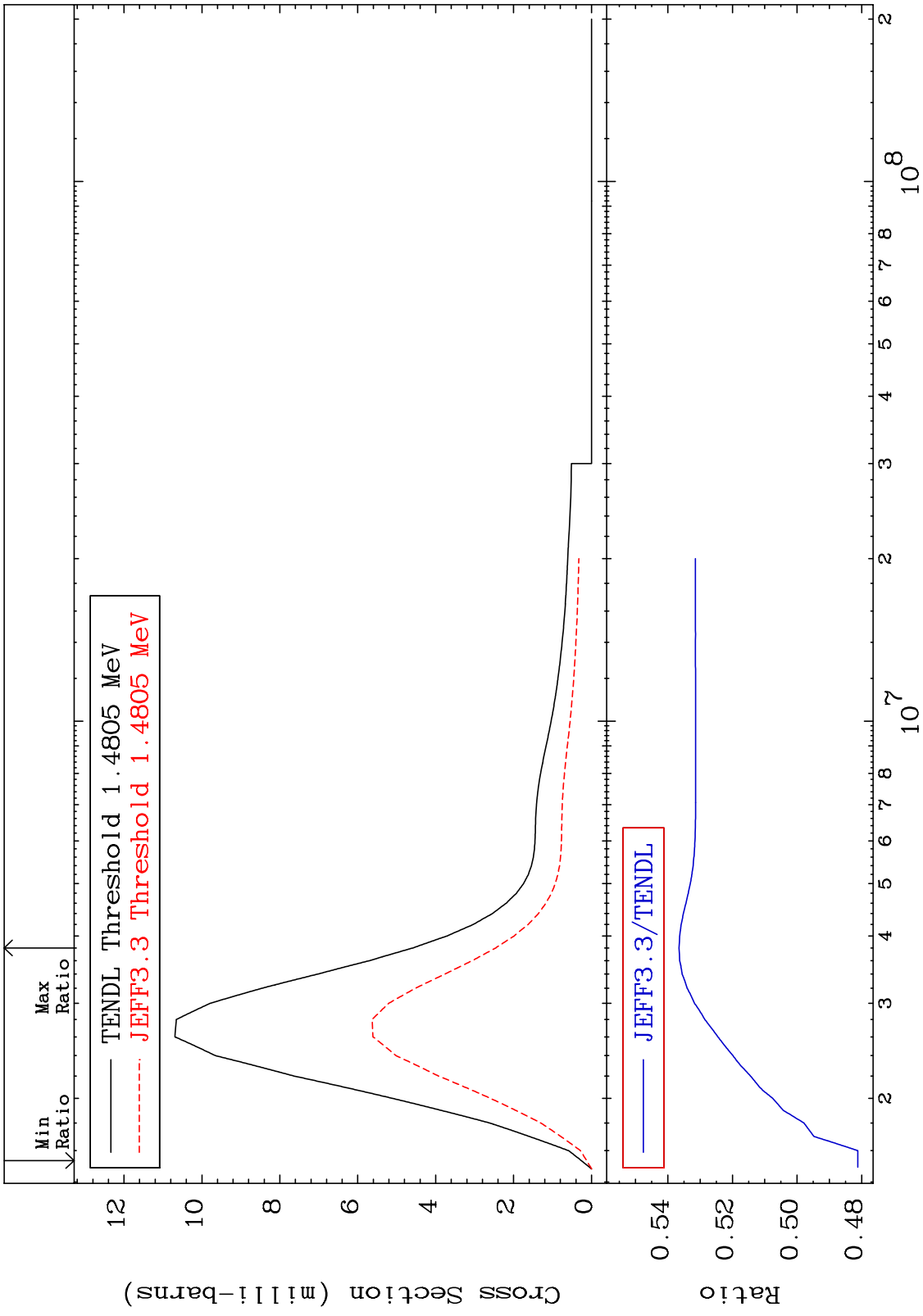


MAT 7243 MT= 75 (n,n') Level Cross Section 72-Hf-180
 -52.21 To -46.27%

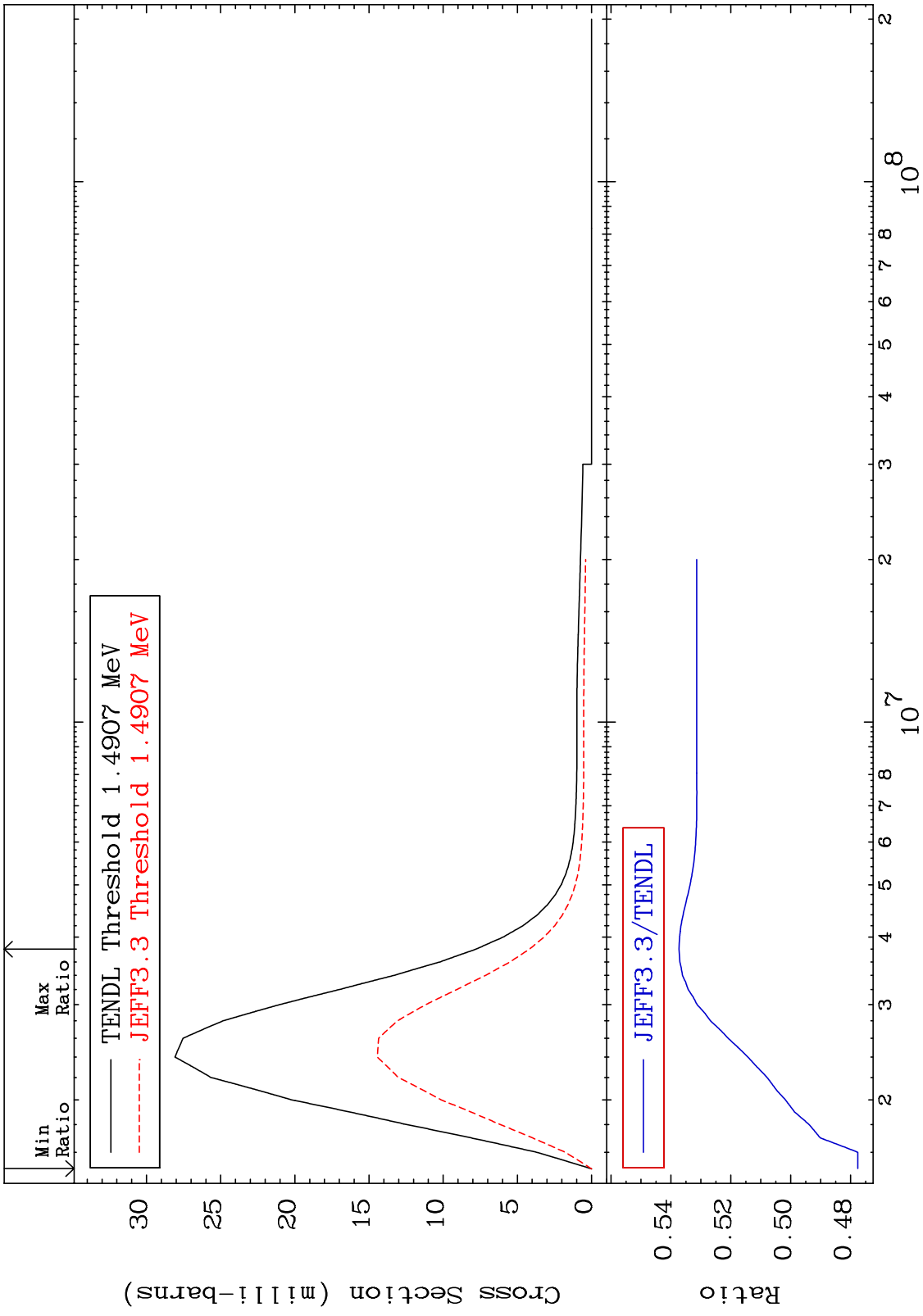


37 Incident Energy (eV) 72-Hf-180

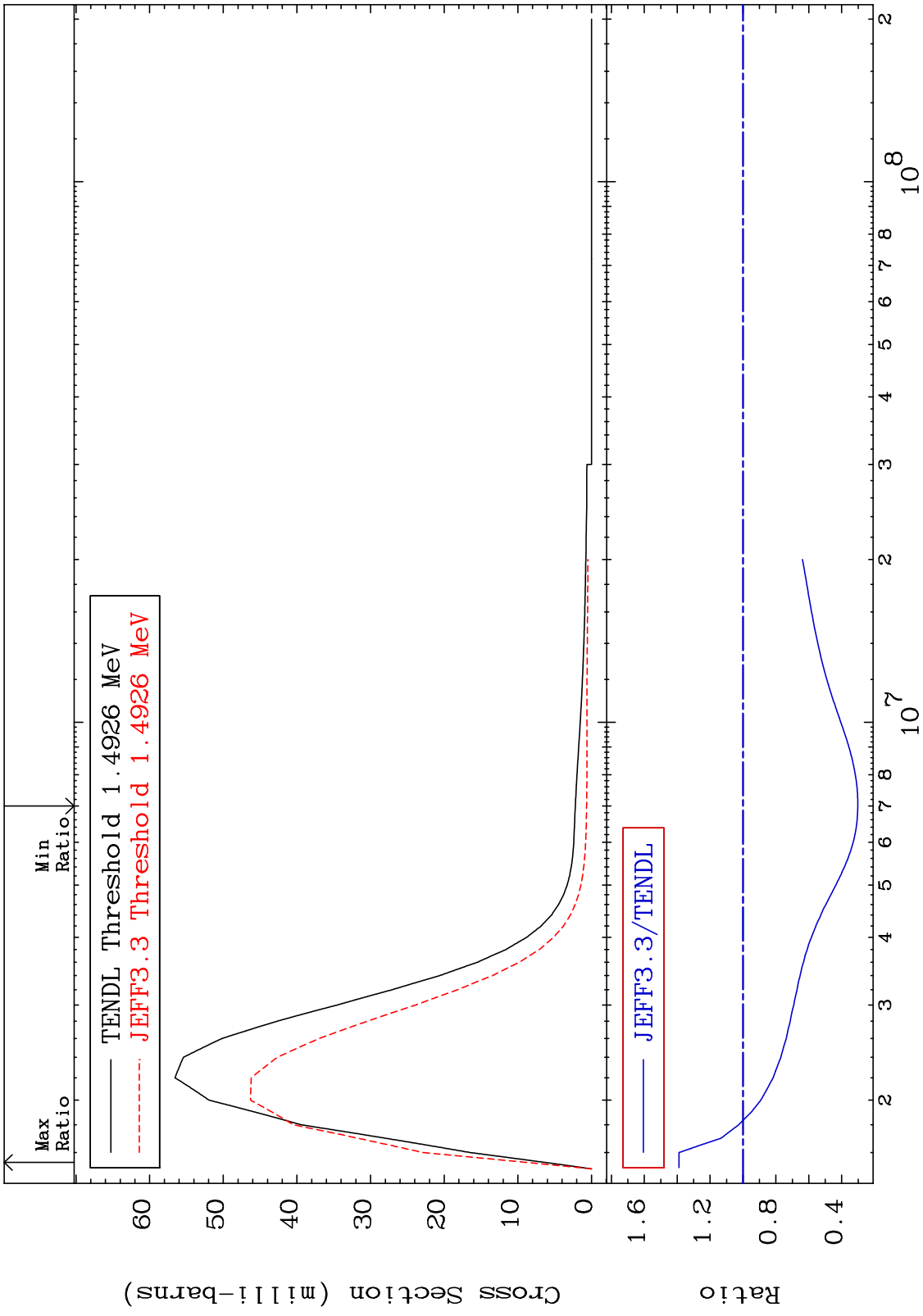
MAT 7243 MT= 76 (n,n') Level Cross Section 72-Hf-180
 -51.88 To -46.35%



MAT 7243 MT= 77 (n,n') Level Cross Section 72-Hf-180
 -52.24 To -46.27%

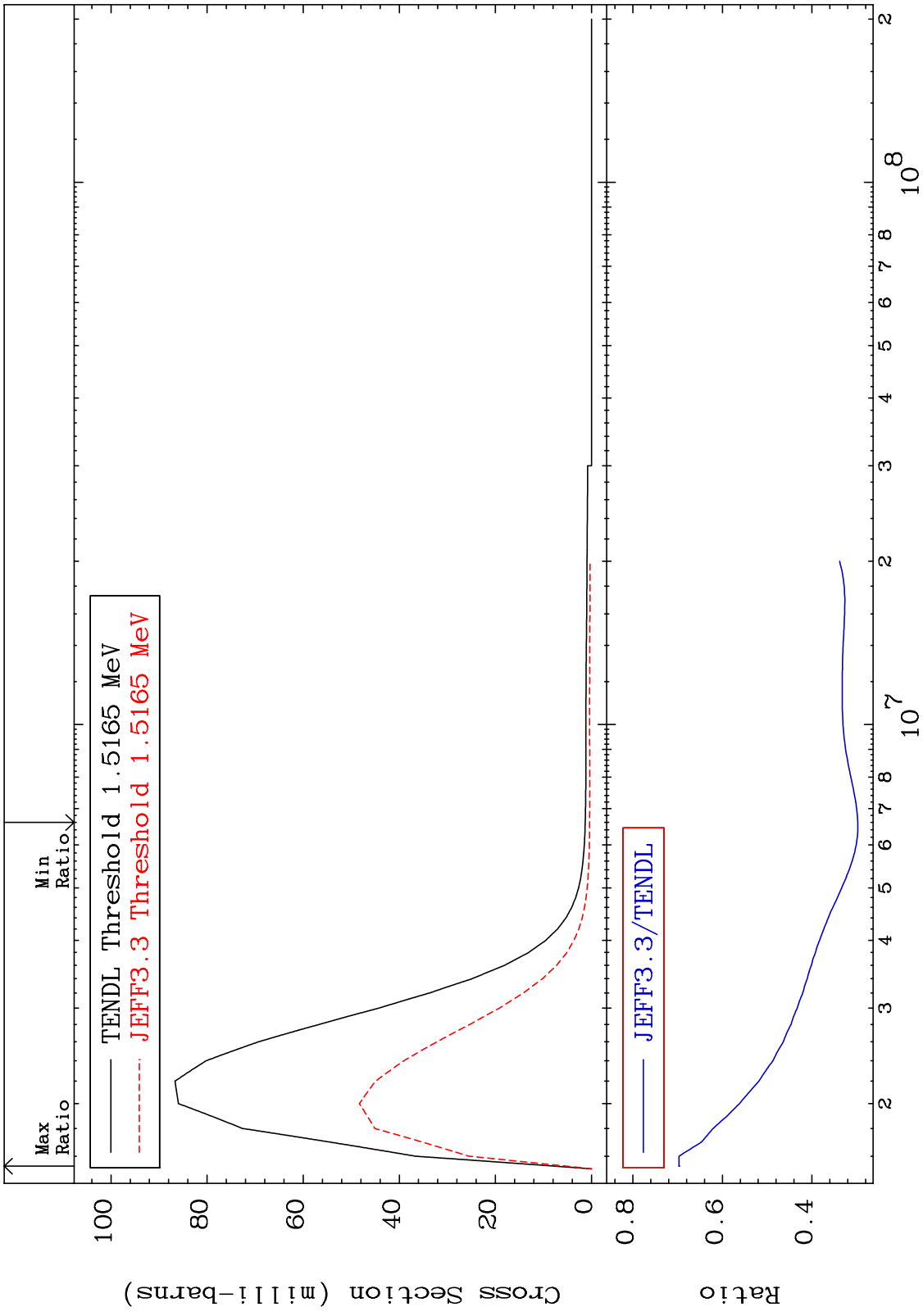


MAT 7243 MT= 78 (n,n') Level Cross Section 72-Hf-180
 -69.82 To 38.89 %

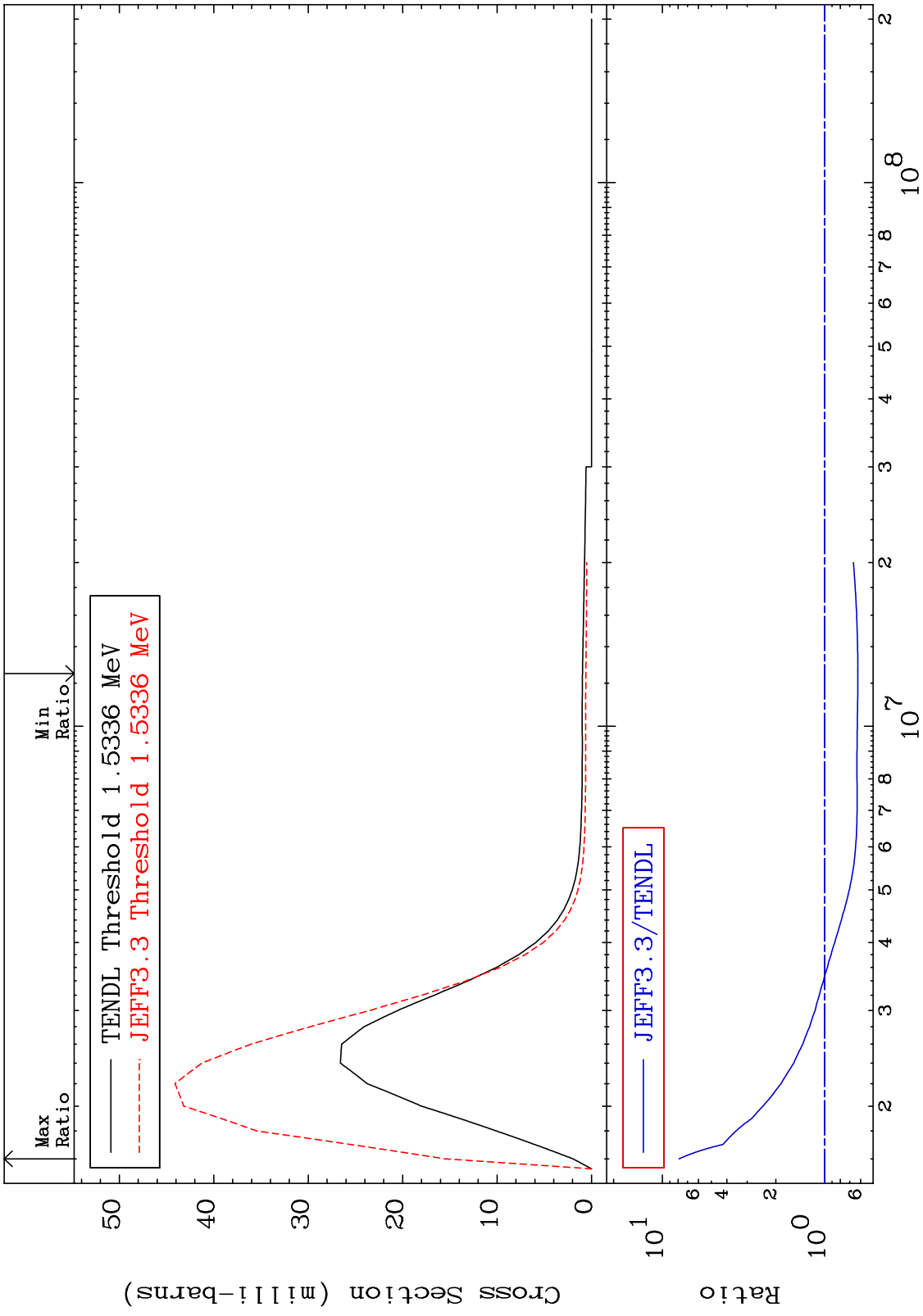


40 Incident Energy (eV) 72-Hf-180

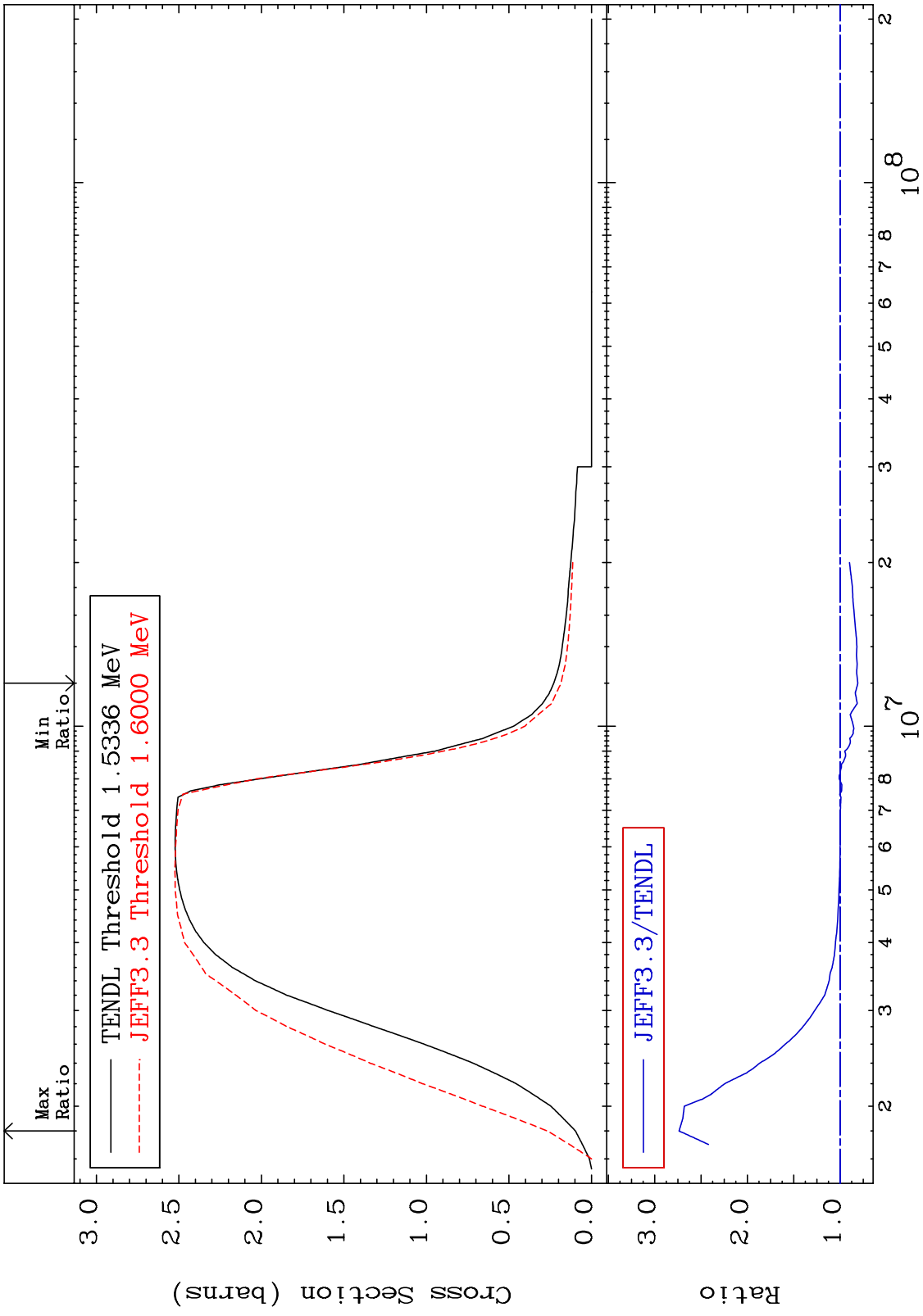
MAT 7243 MT= 79 (n,n') Level Cross Section 72-Hf-180 -70.27 To -30.31%



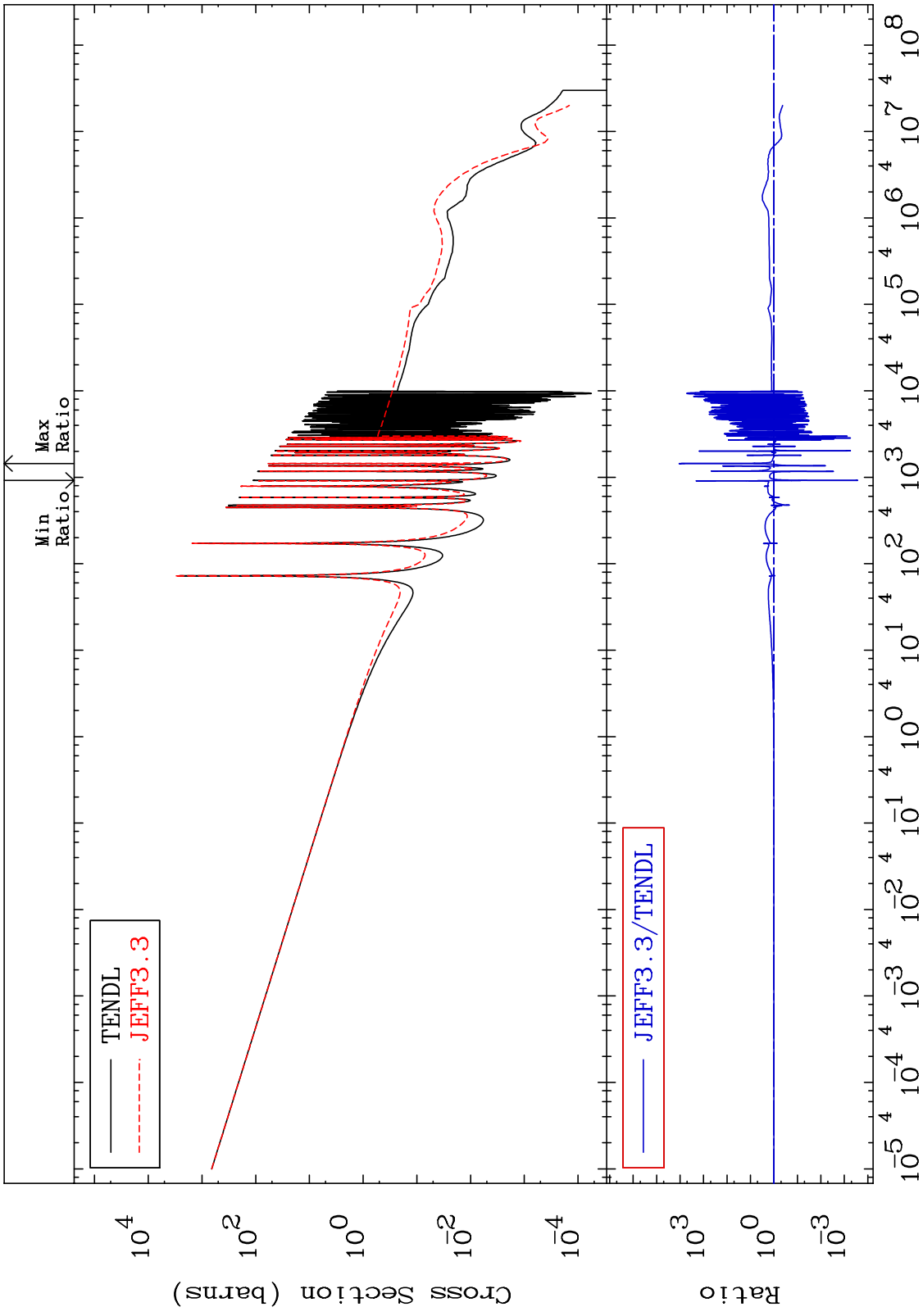
MAT 7243 MT= 80 (n,n') Level Cross Section 72-Hf-180
 -37.61 To 689.7 %



MAT 7243 (n, n') Continuum Cross Section 72-Hf-180
 -19.19 To 173.7 %

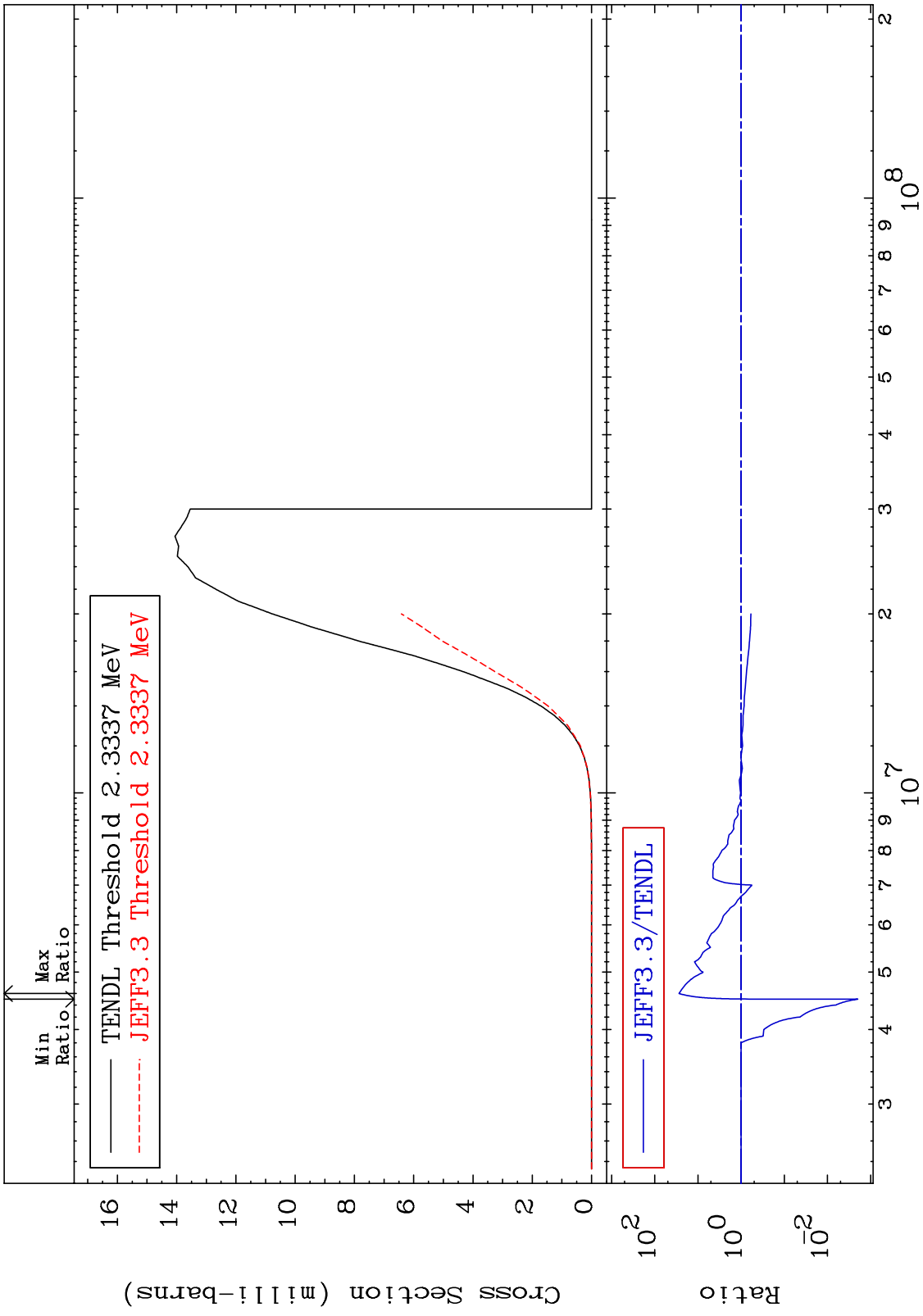


MAT 7243 72-Hf-180
-99.97 To 9999. %
 (n, γ)
 Cross Section

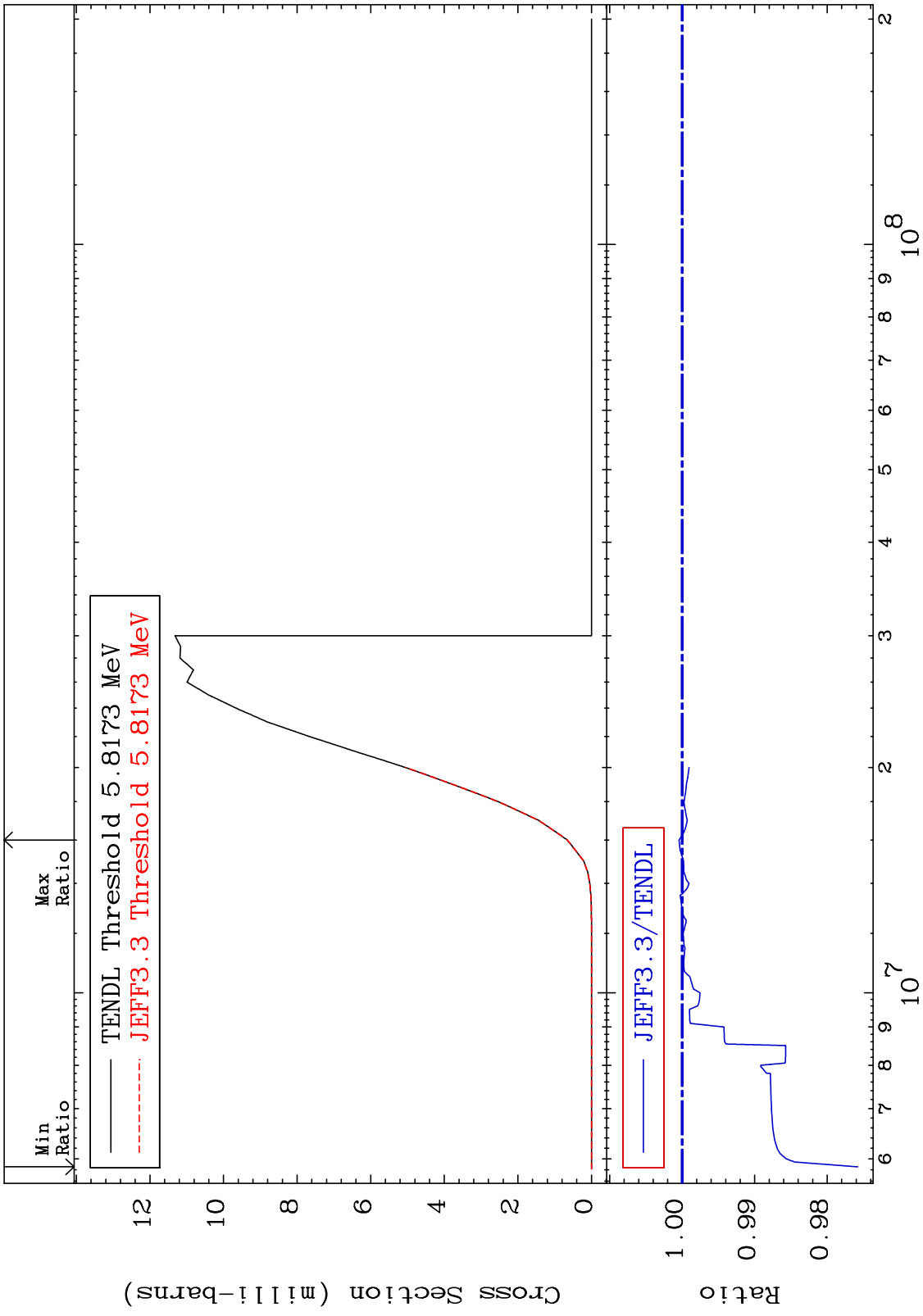


44 72-Hf-180

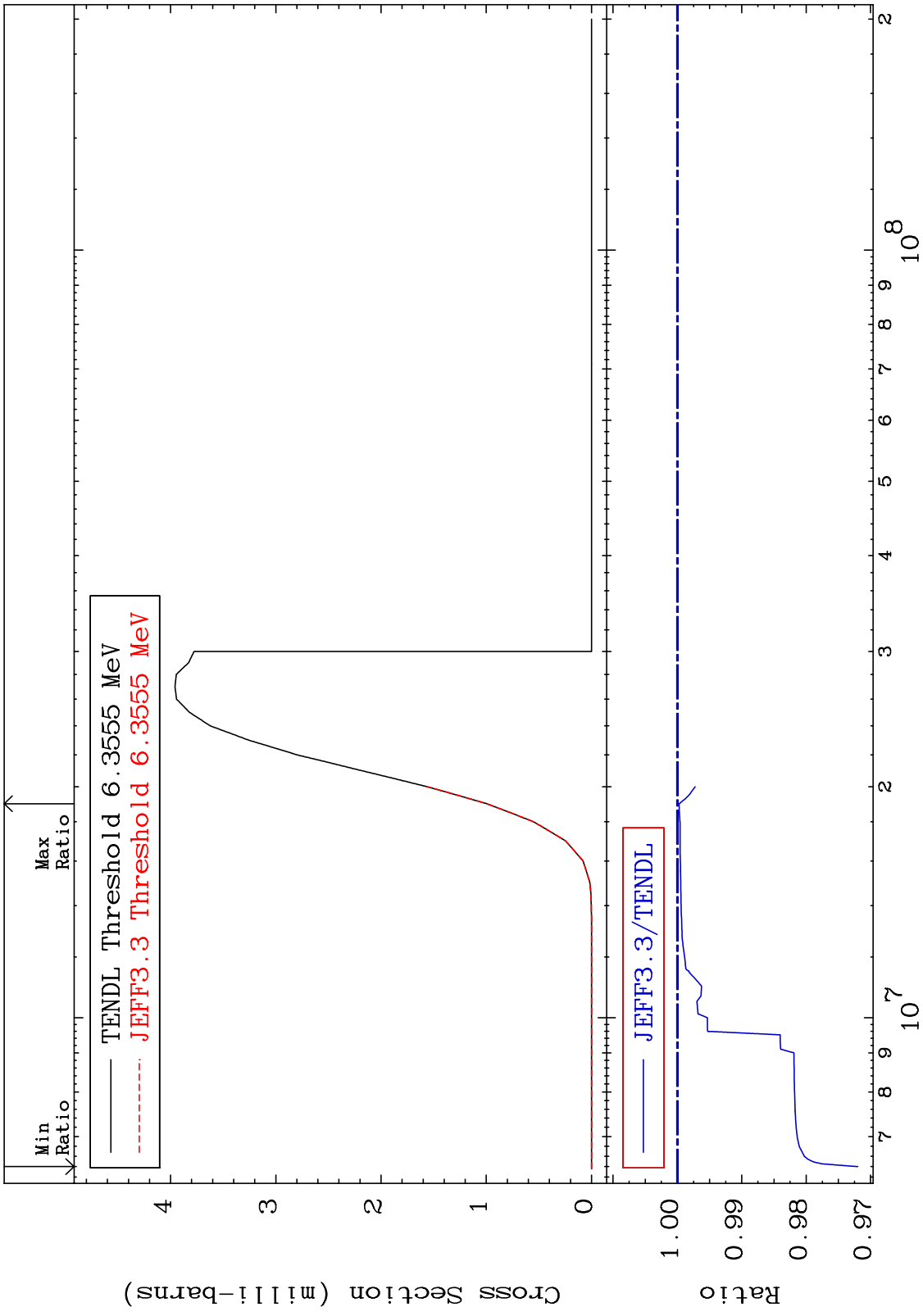
MAT 7243 (n,p) Cross Section 72-Hf-180 -99.80 To 2647. %



MAT 7243 (n,d) 72-Hf-180
 Cross Section -2.422 To 0.044 %



MAT 7243 (n,t) 72-Hf-180
 Cross Section -2.802 To -0.025%



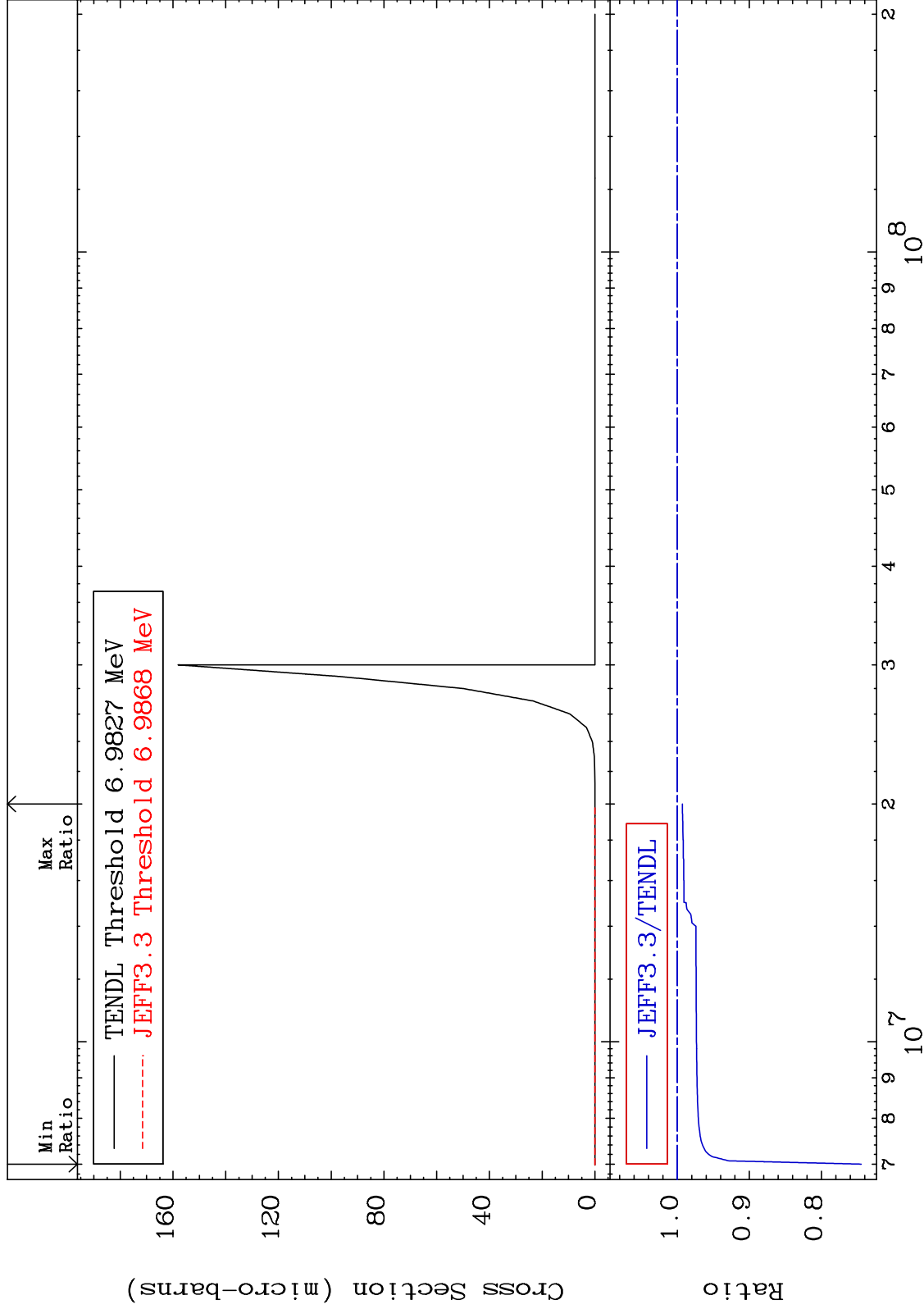
MAT 7243

(n, He-3)

72-Hf-180

Cross Section

-25.52 To -0.715%

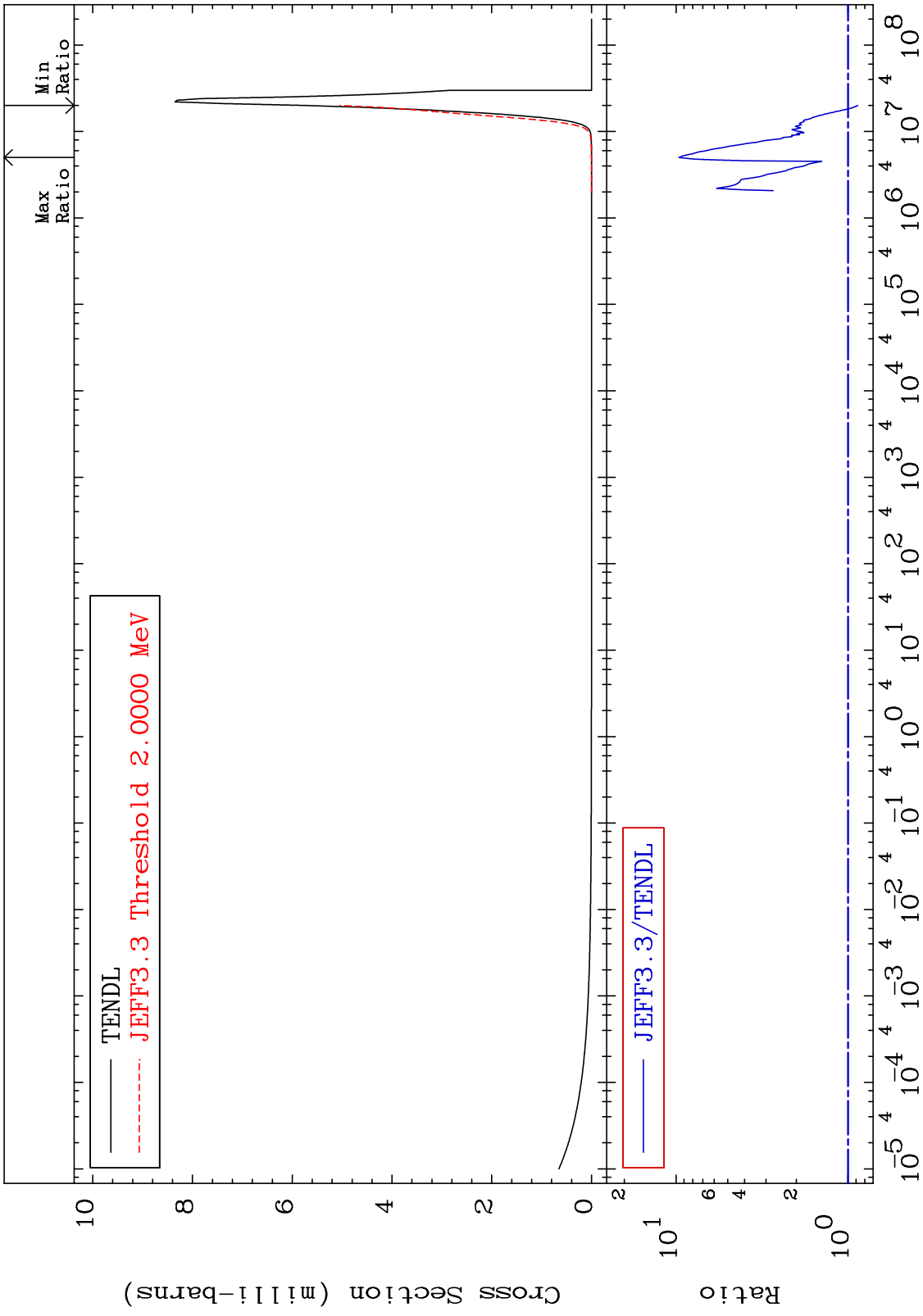


48

Incident Energy (eV)

72-Hf-180

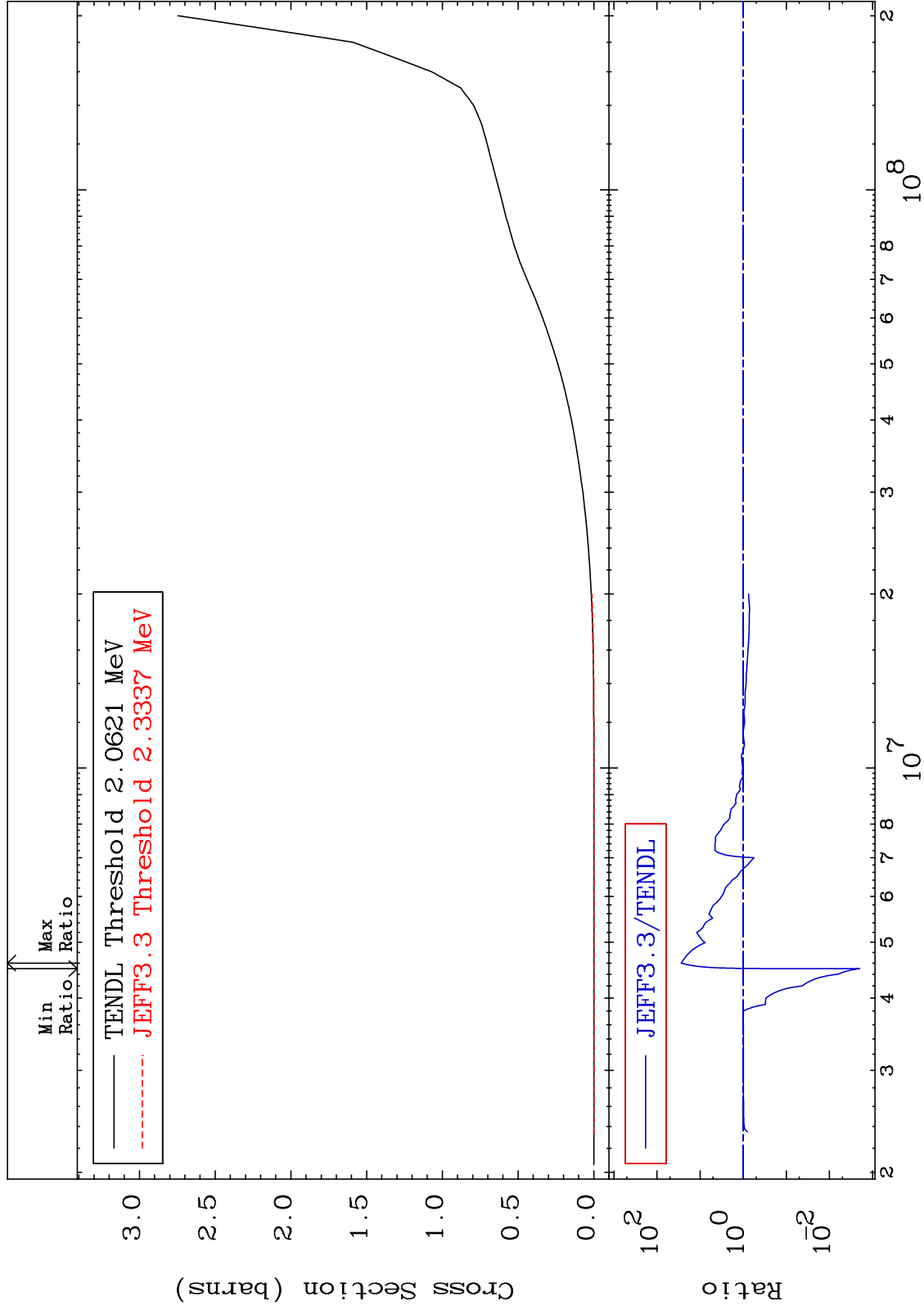
MAT 7243 (n,α) Cross Section 72-Hf-180
 -12.27 To 860.8 %



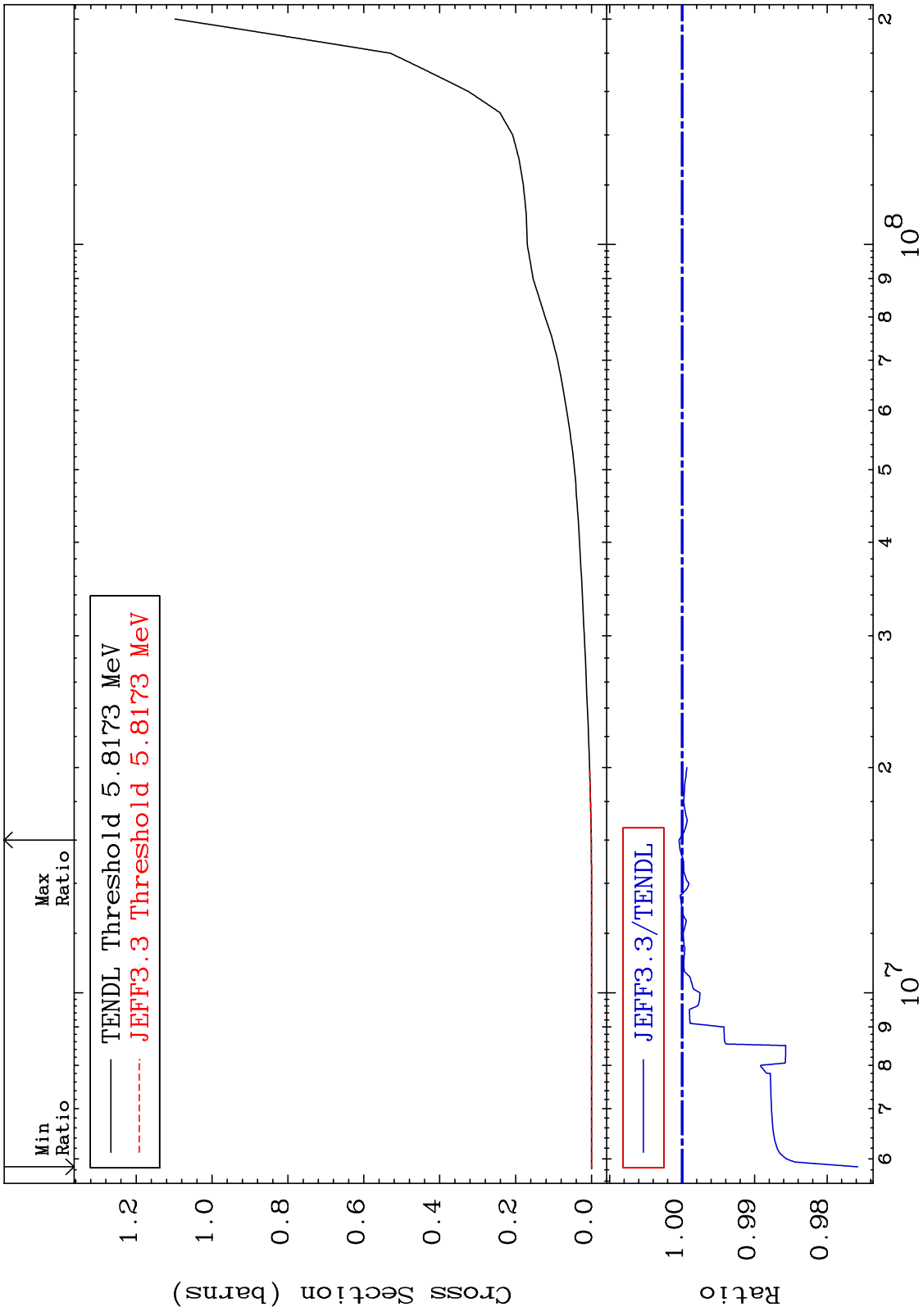
MAT 7243

Hydrogen Production
Cross Section

72-Hf-180
-99.80 To 2647. %

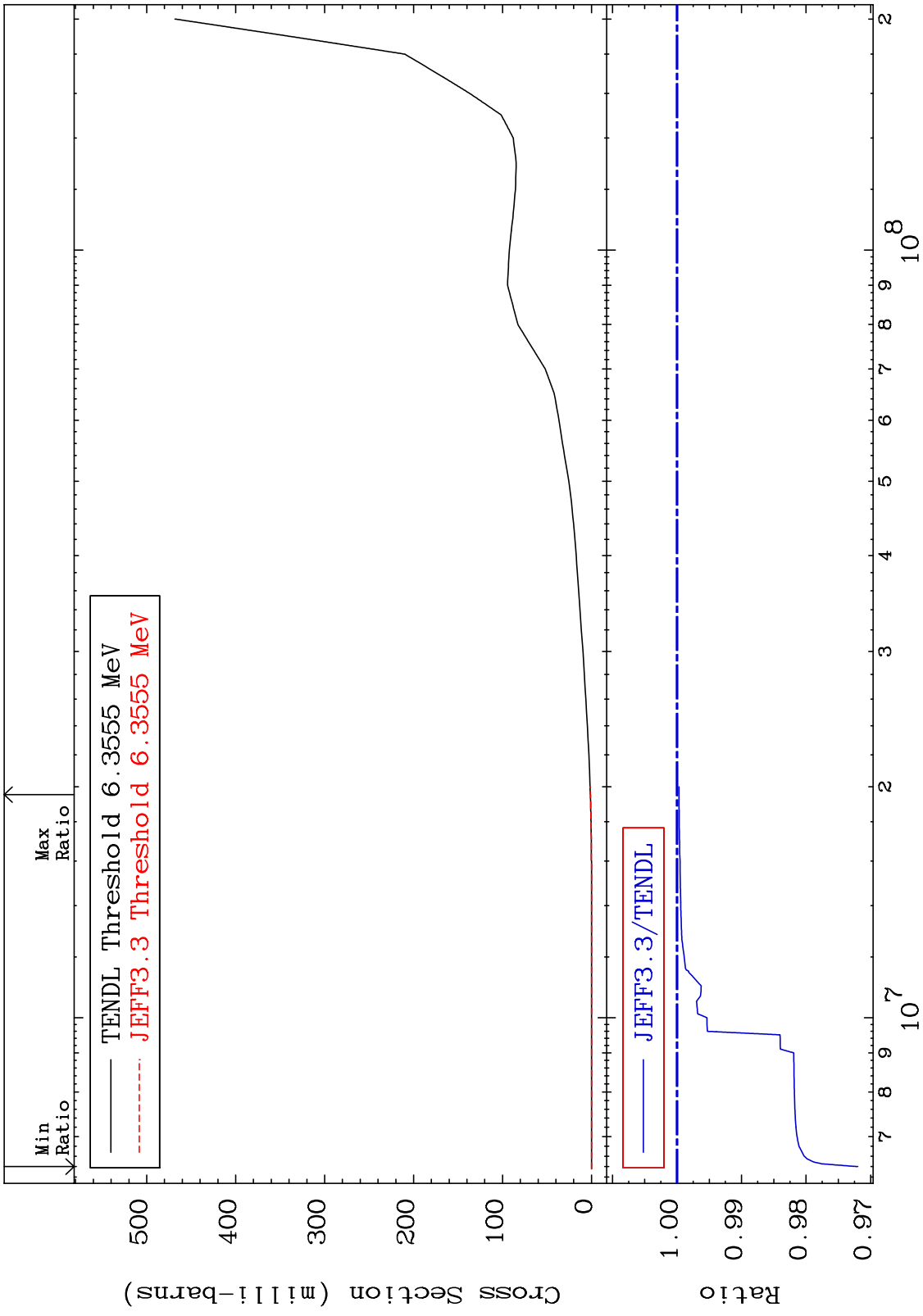


MAT 7243 Deuterium Production Cross Section 72-Hf-180 -2.422 To 0.044 %



51 72-Hf-180 Incident Energy (eV)

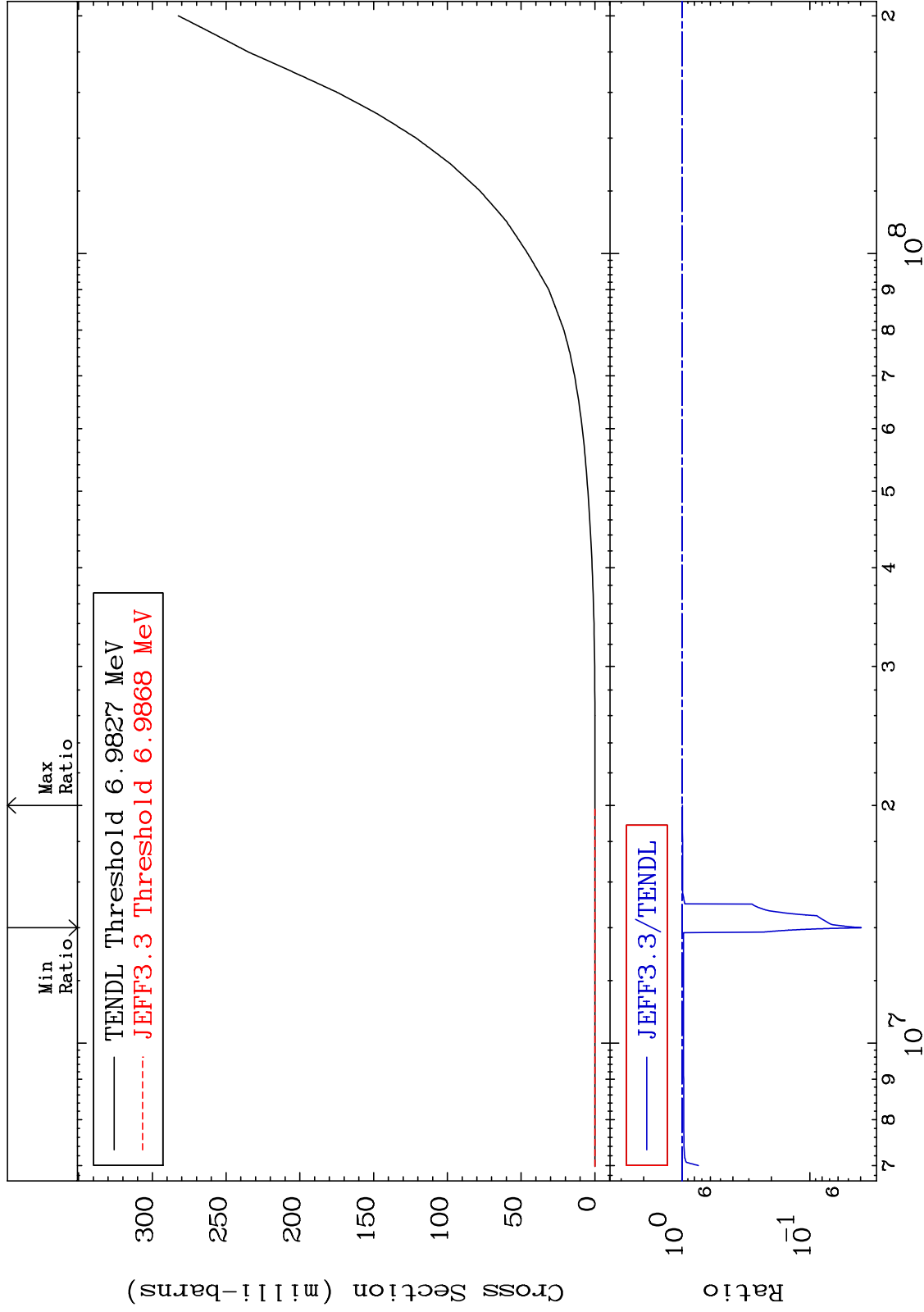
MAT 7243 Tritium Production Cross Section 72-Hf-180
 -2.802 To -0.031%



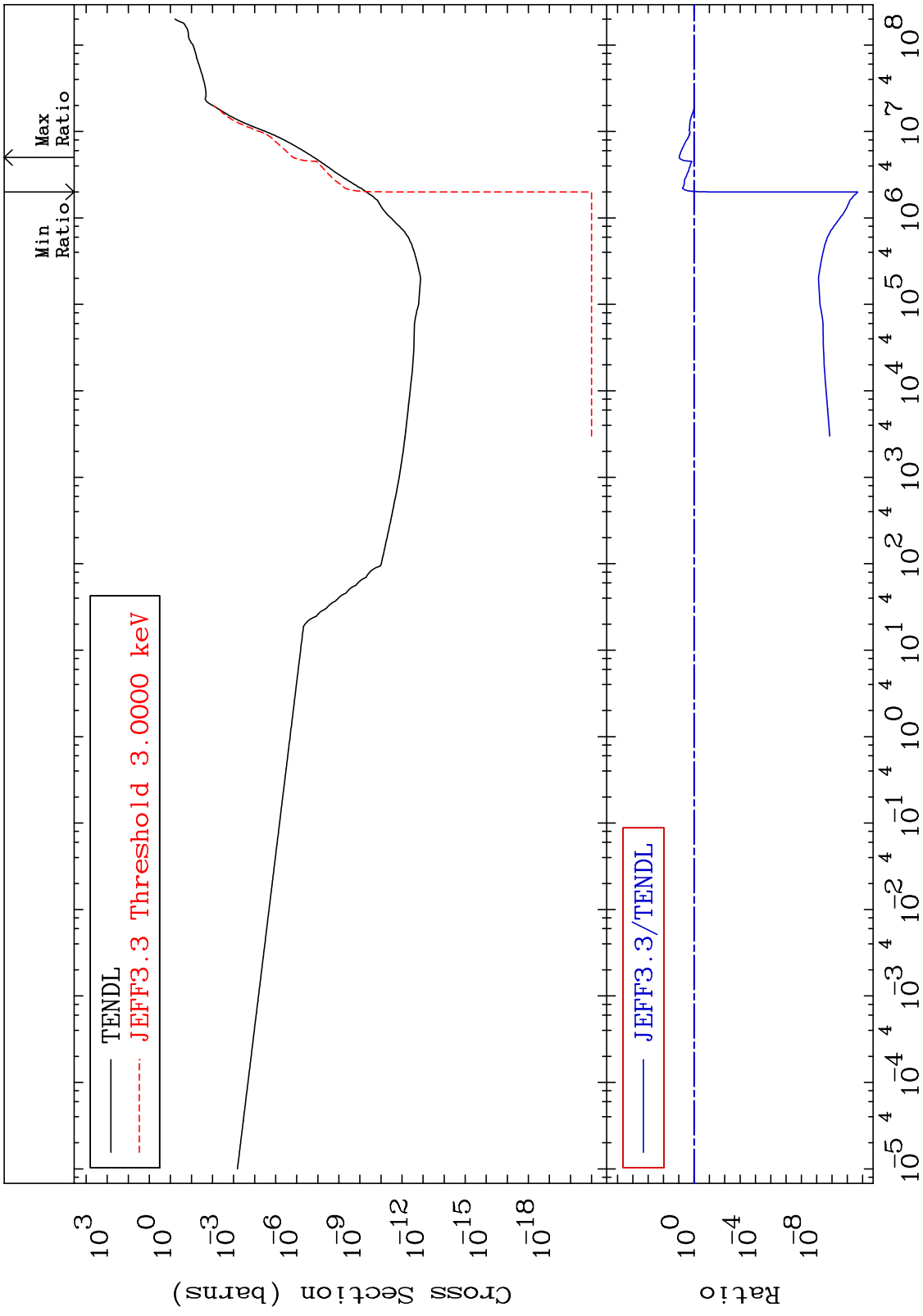
MAT 7243

He-3 Production
Cross Section

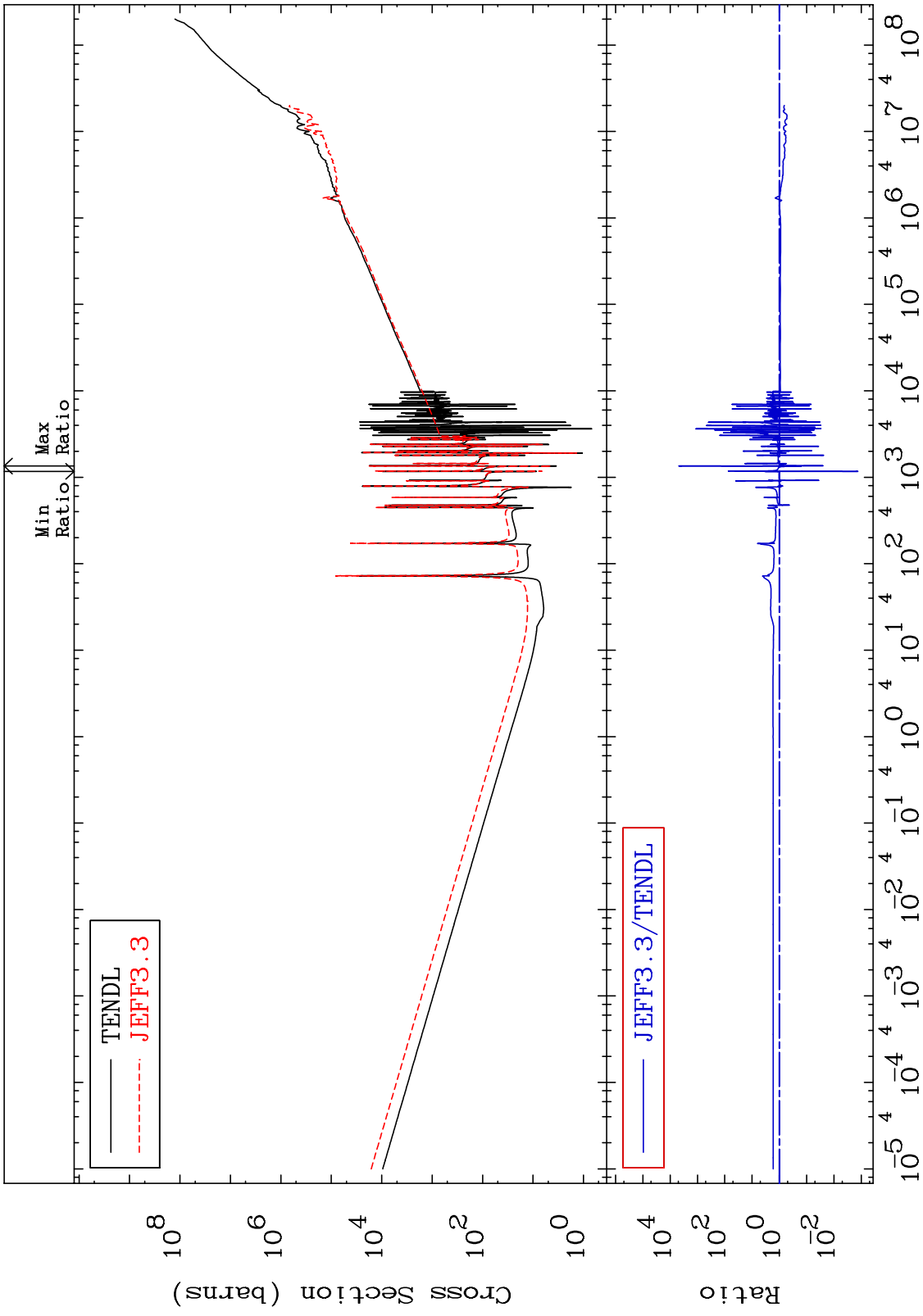
72-Hf-180
-96.05 To -0.715%



MAT 7243 He-4 Production Cross Section 72-Hf-180
 -100.0 To 861.0 %



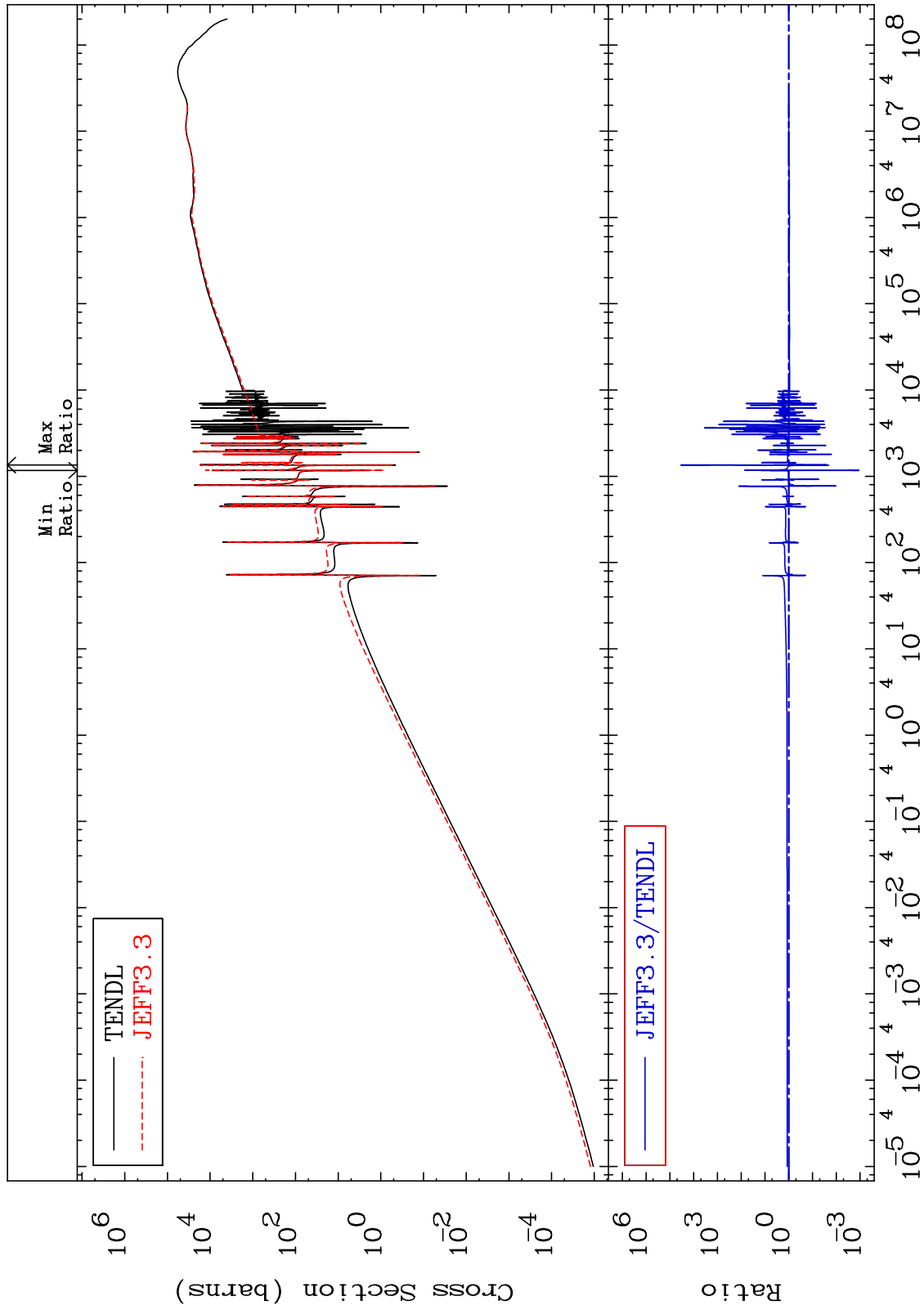
MAT 7243 Kerma total (eV-barns) 72-Hf-180
 Cross Section -99.87 To 9999. %



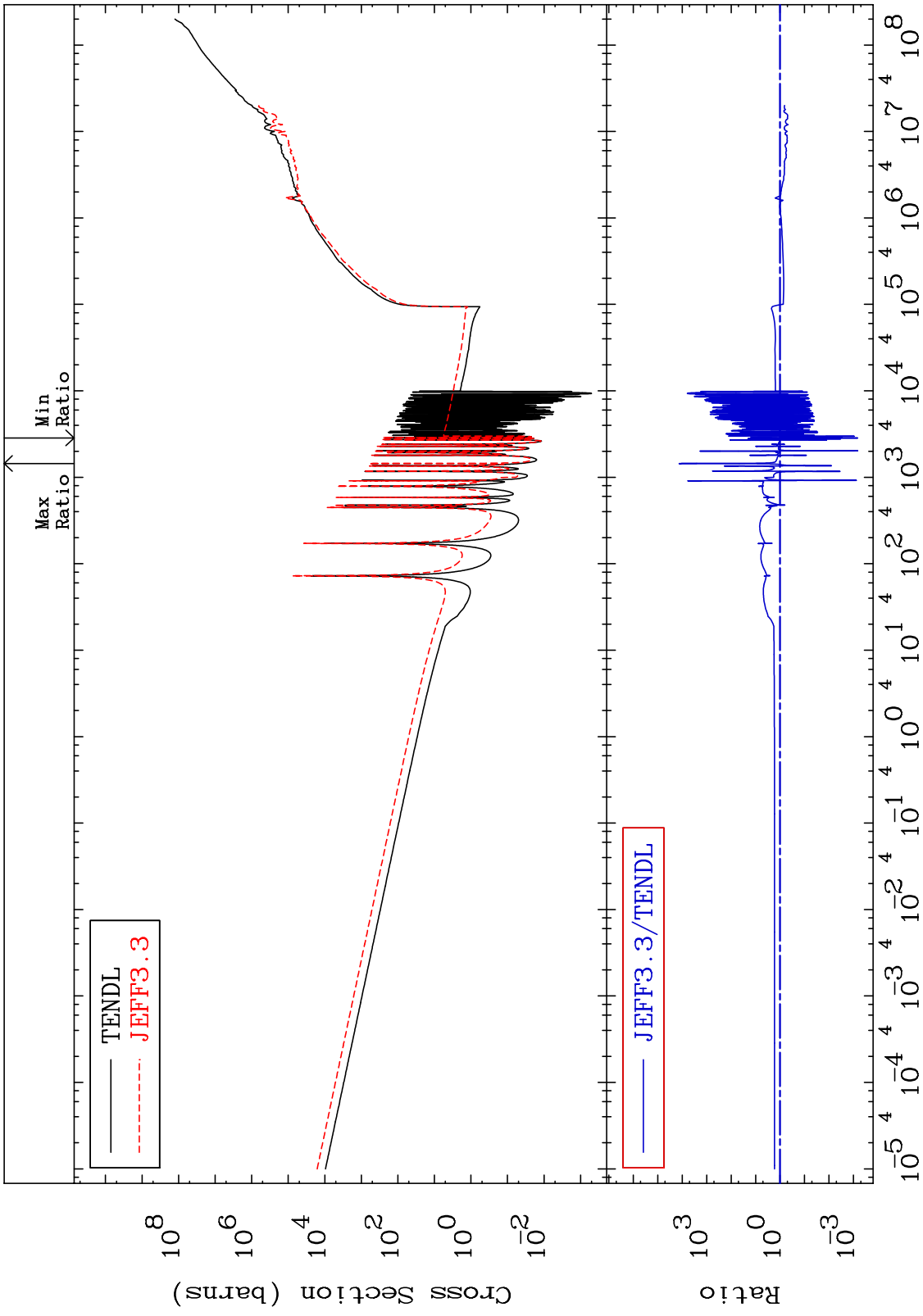
MAT 7243

Kerma elastic
Cross Section

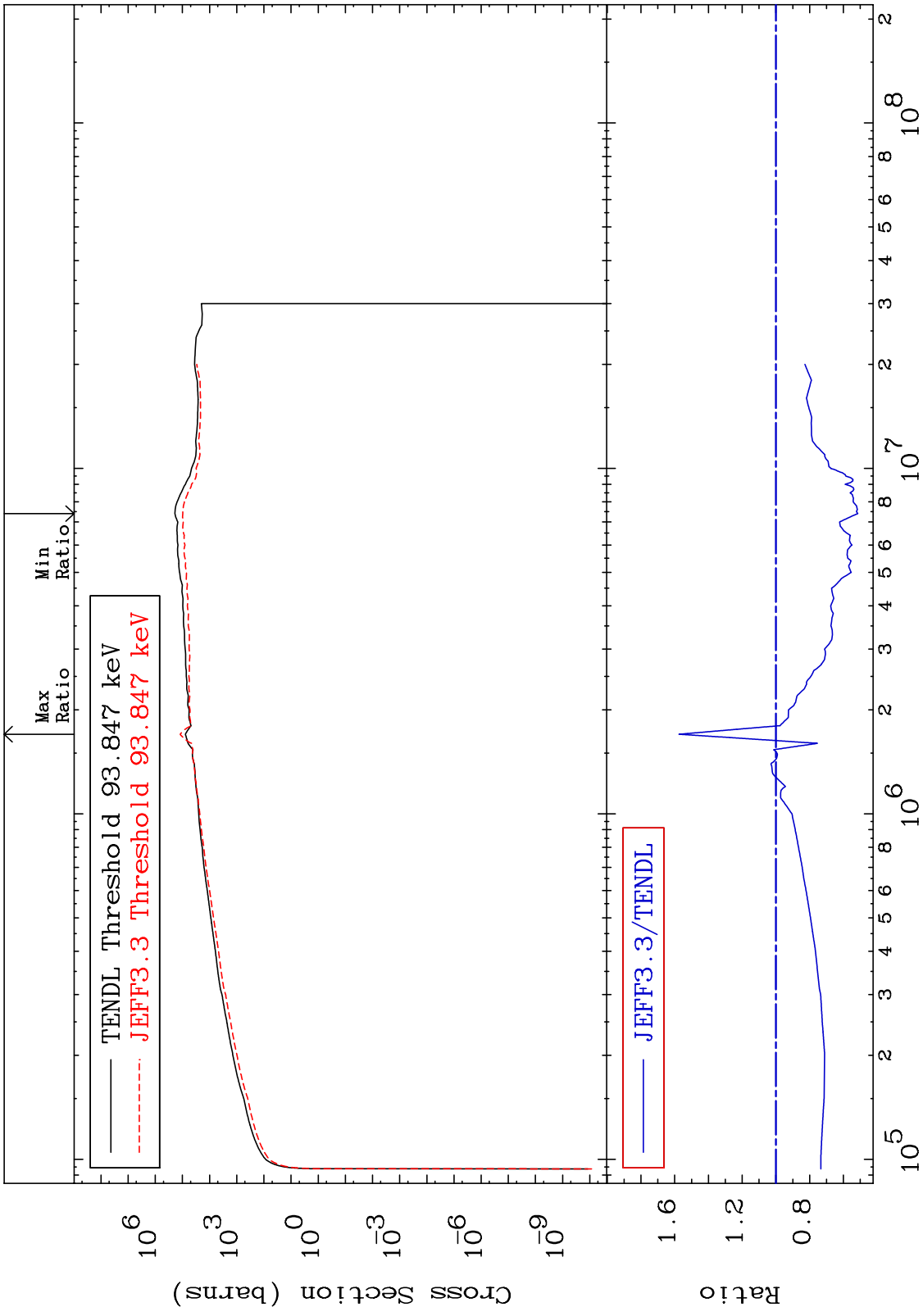
72-Hf-180
-99.89 To 9999. %



MAT 7243 Kerma non-elastic (all but mt2) 72-Hf-180
 Cross Section -99.93 To 9999. %



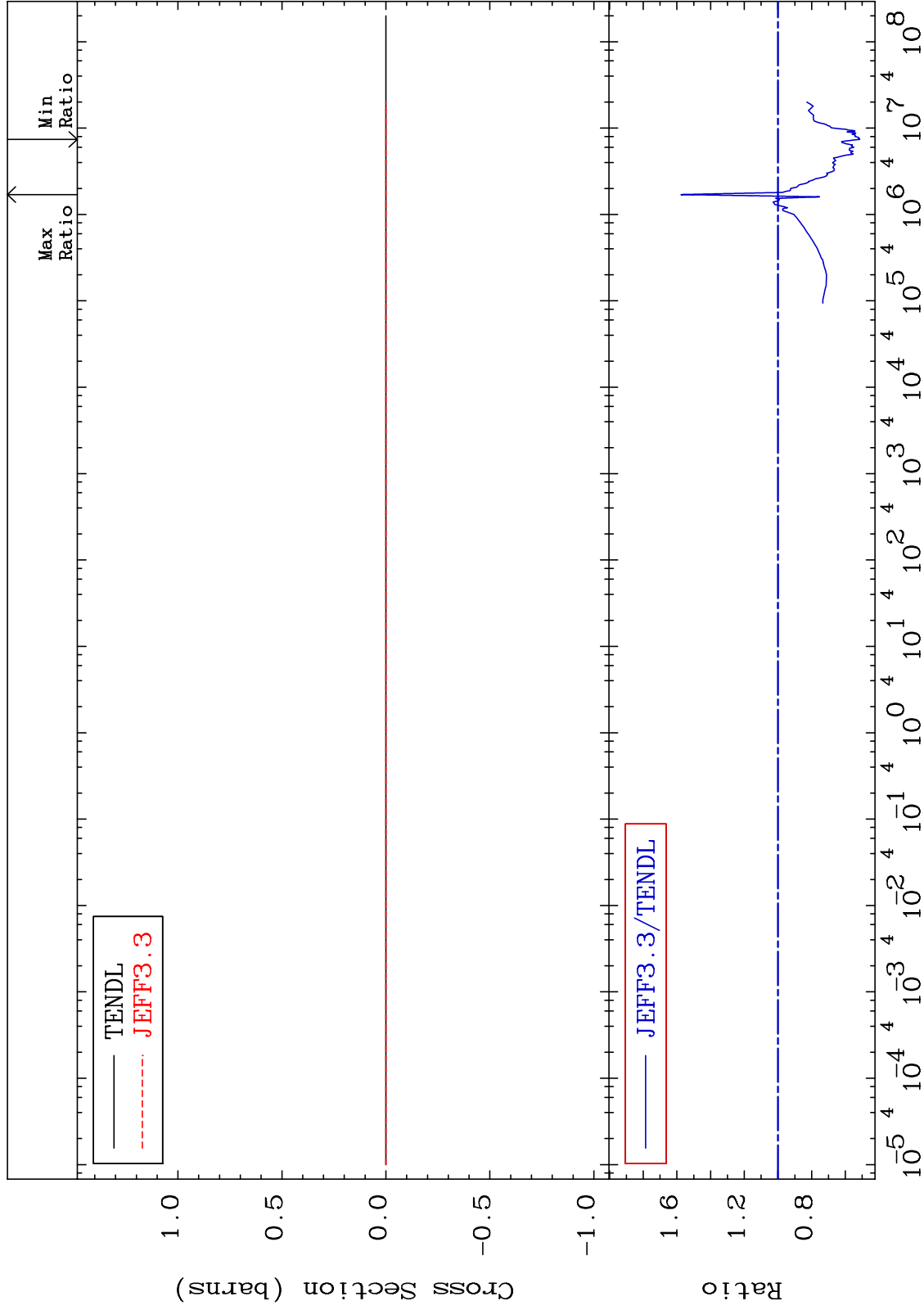
MAT 7243 Kerma inelastic (mt51-91) 72-Hf-180
Cross Section -48.56 To 57.43 %



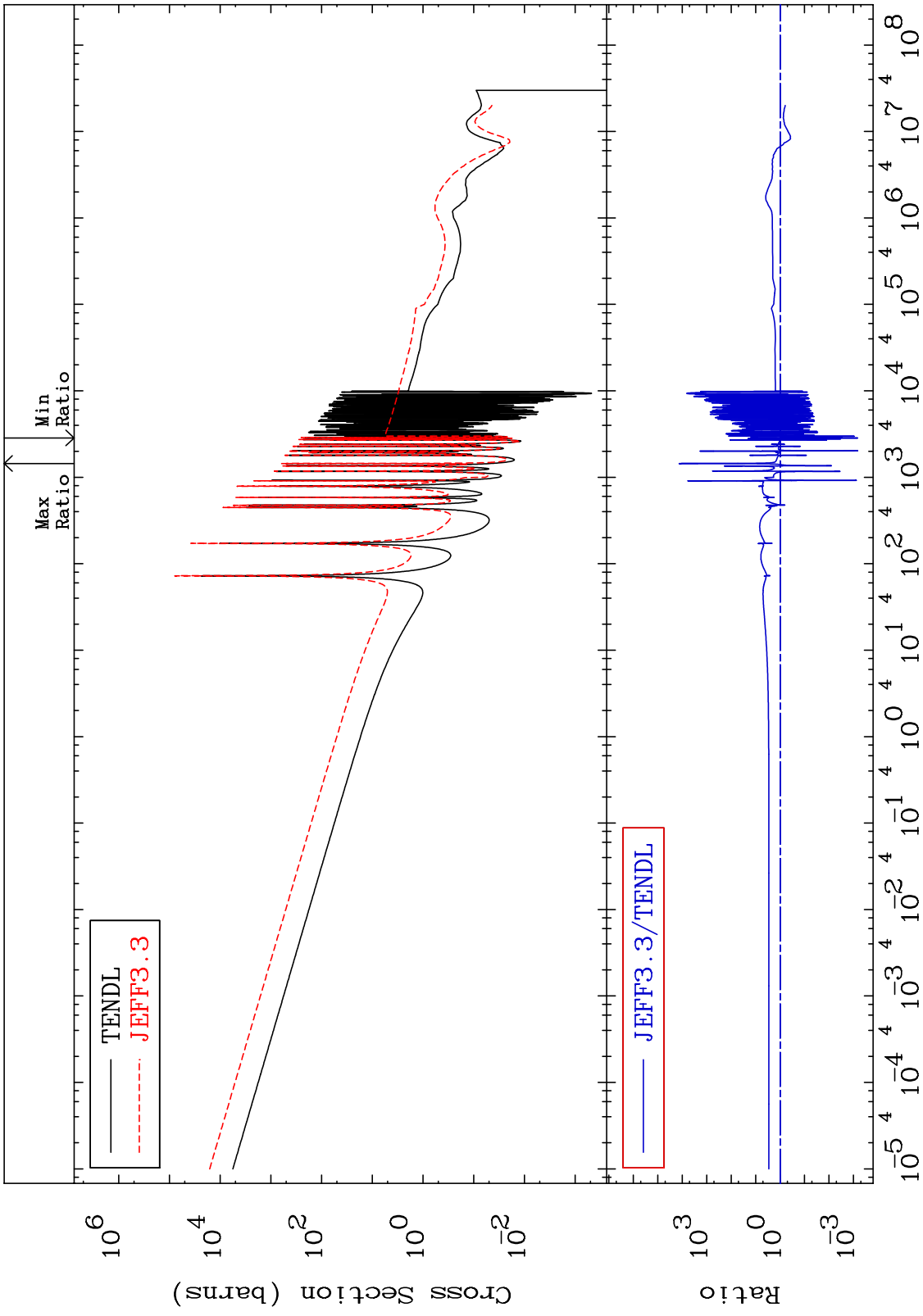
MAT 7243

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

72-Hf-180
-48.56 To 57.43 %

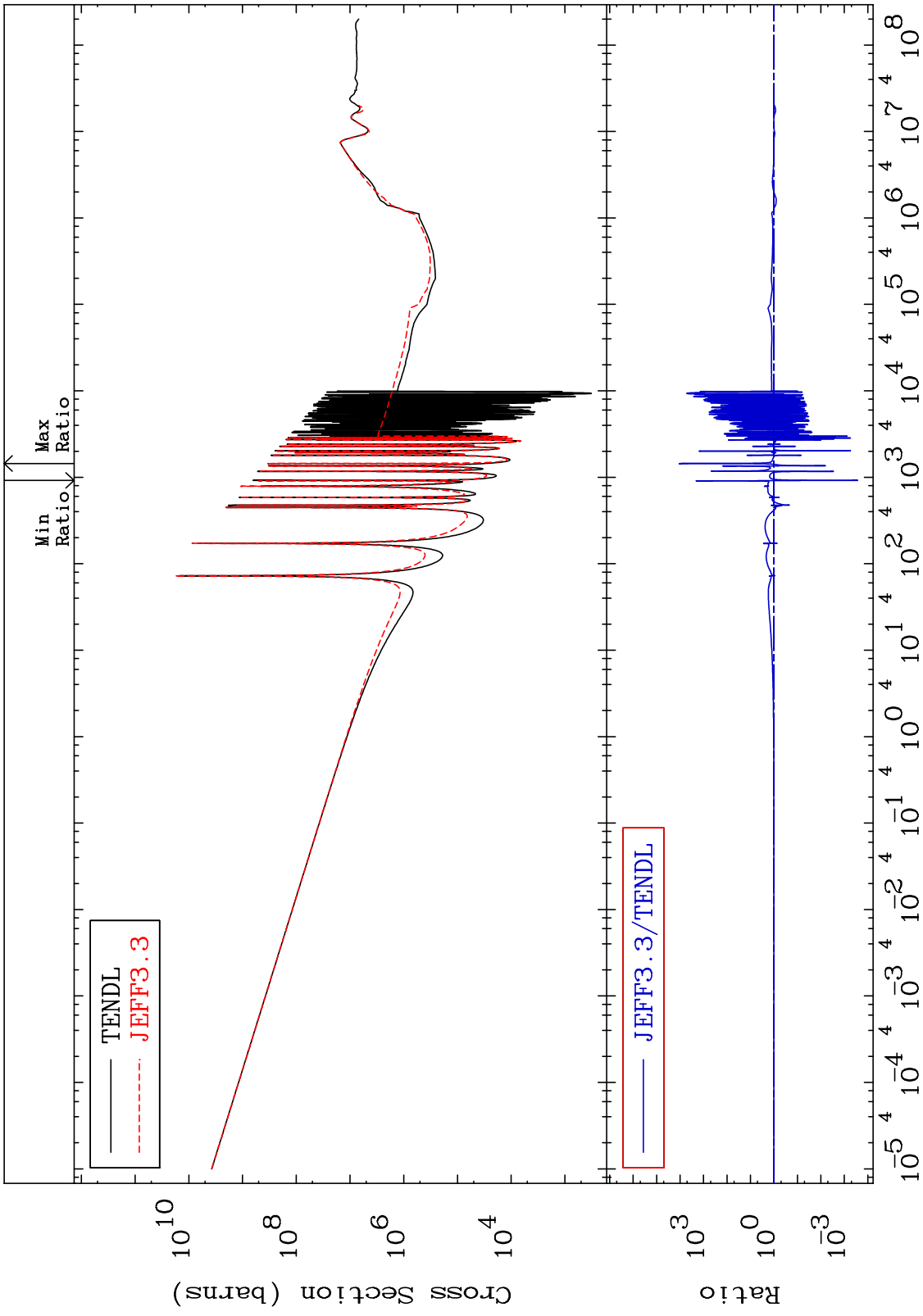


MAT 7243 Kerma capture (mt102) 72-Hf-180
 Cross Section -99.93 To 9999. %

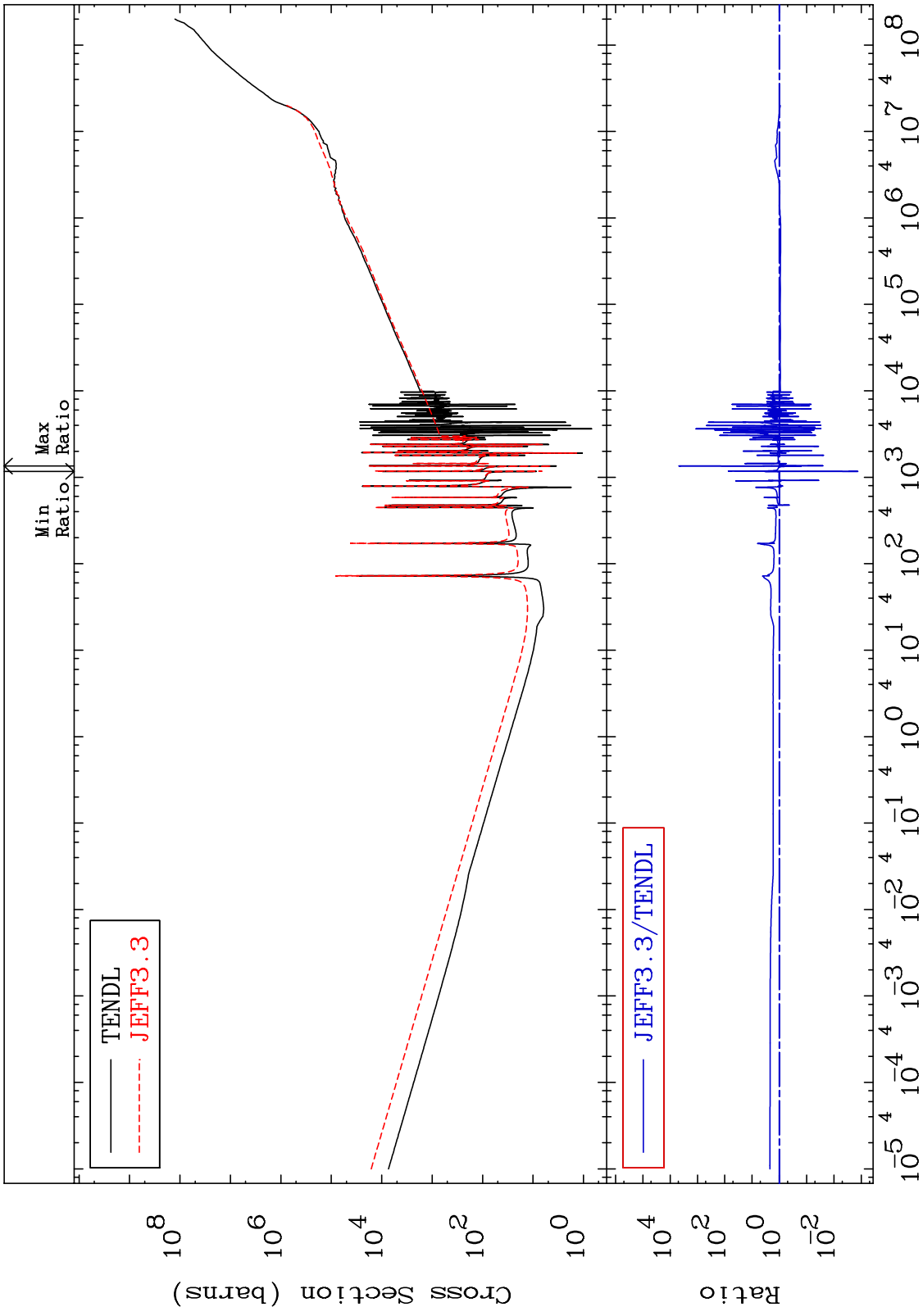


60 Incident Energy (eV) 72-Hf-180

MAT 7243 72-Hf-180
 Total photon (eV-barns) -99.97 To 9999. %
 Cross Section



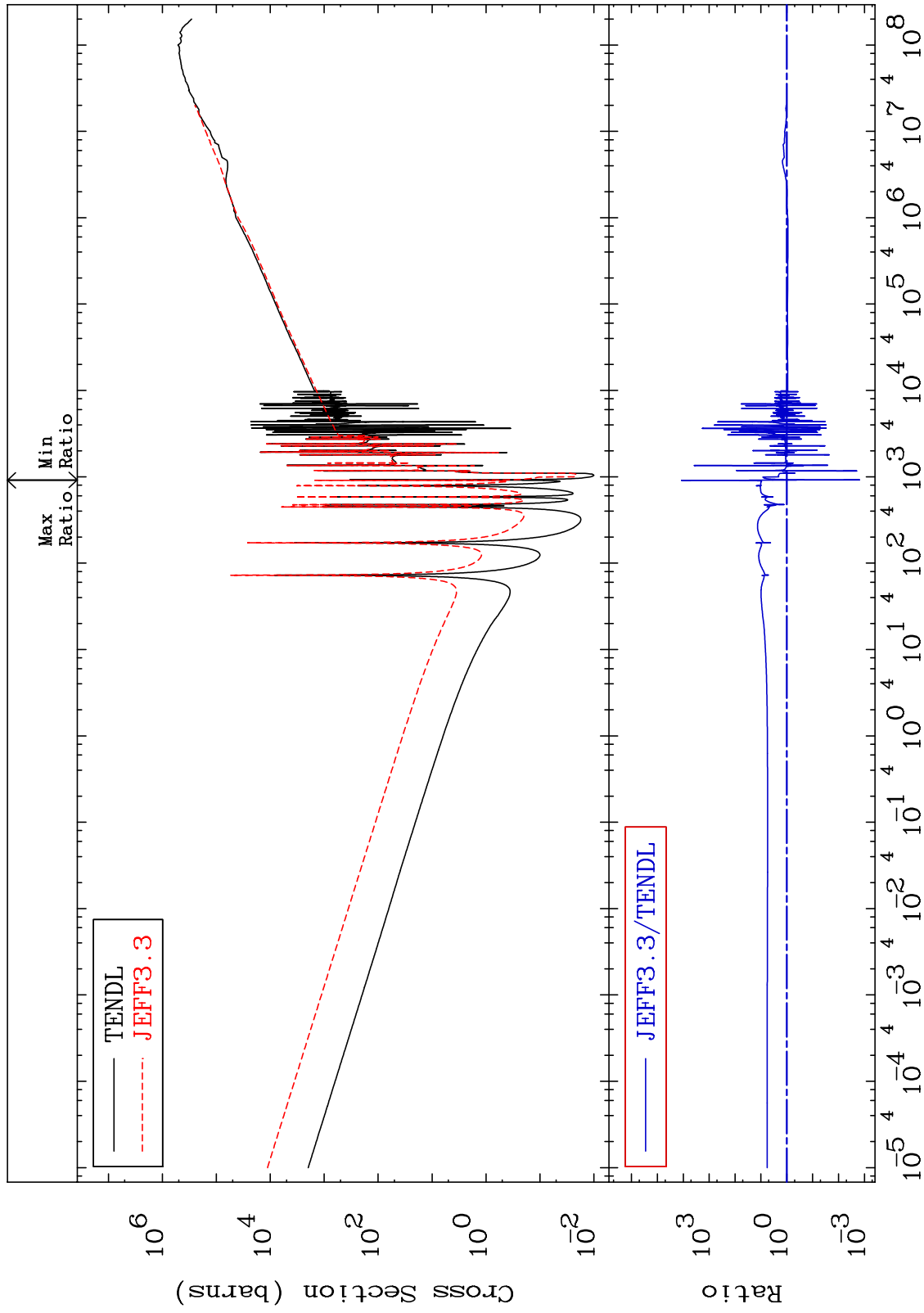
MAT 7243 Total kinematic kerma (high limit) 72-Hf-180
 Cross Section -99.87 To 9999. %



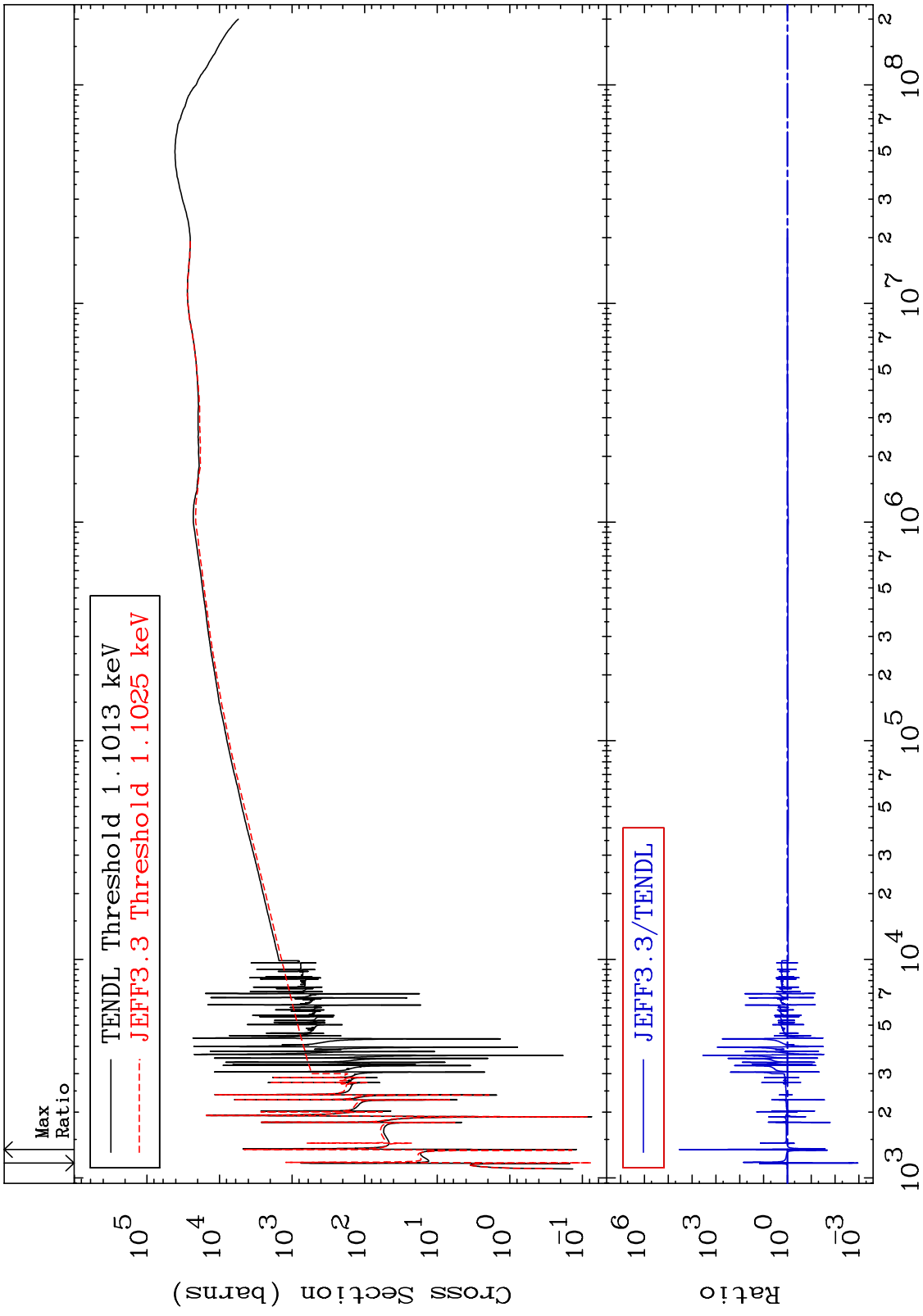
MAT 7243

Dpa total (eV-barns)
Cross Section

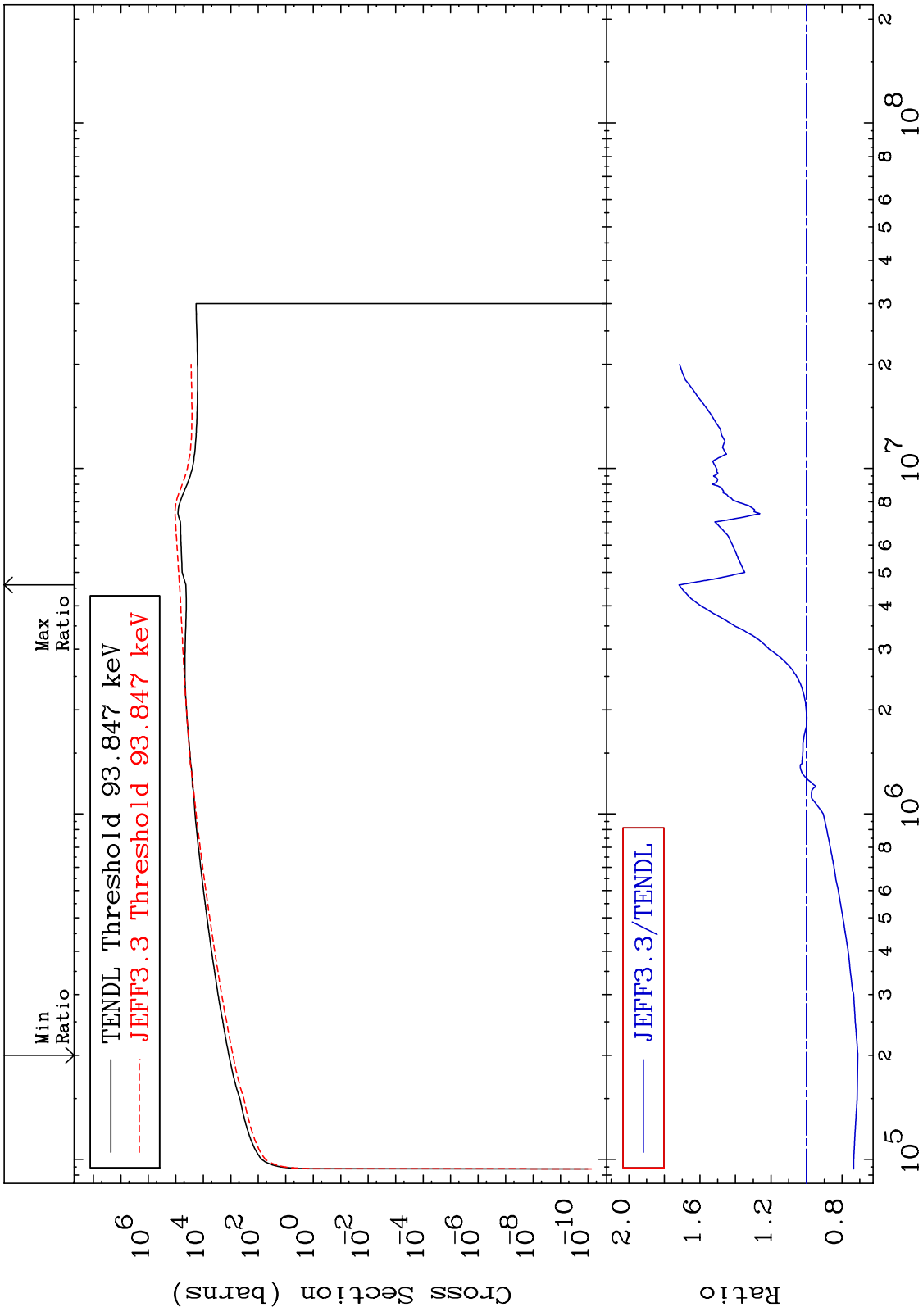
72-Hf-180
-99.85 To 9999. %



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

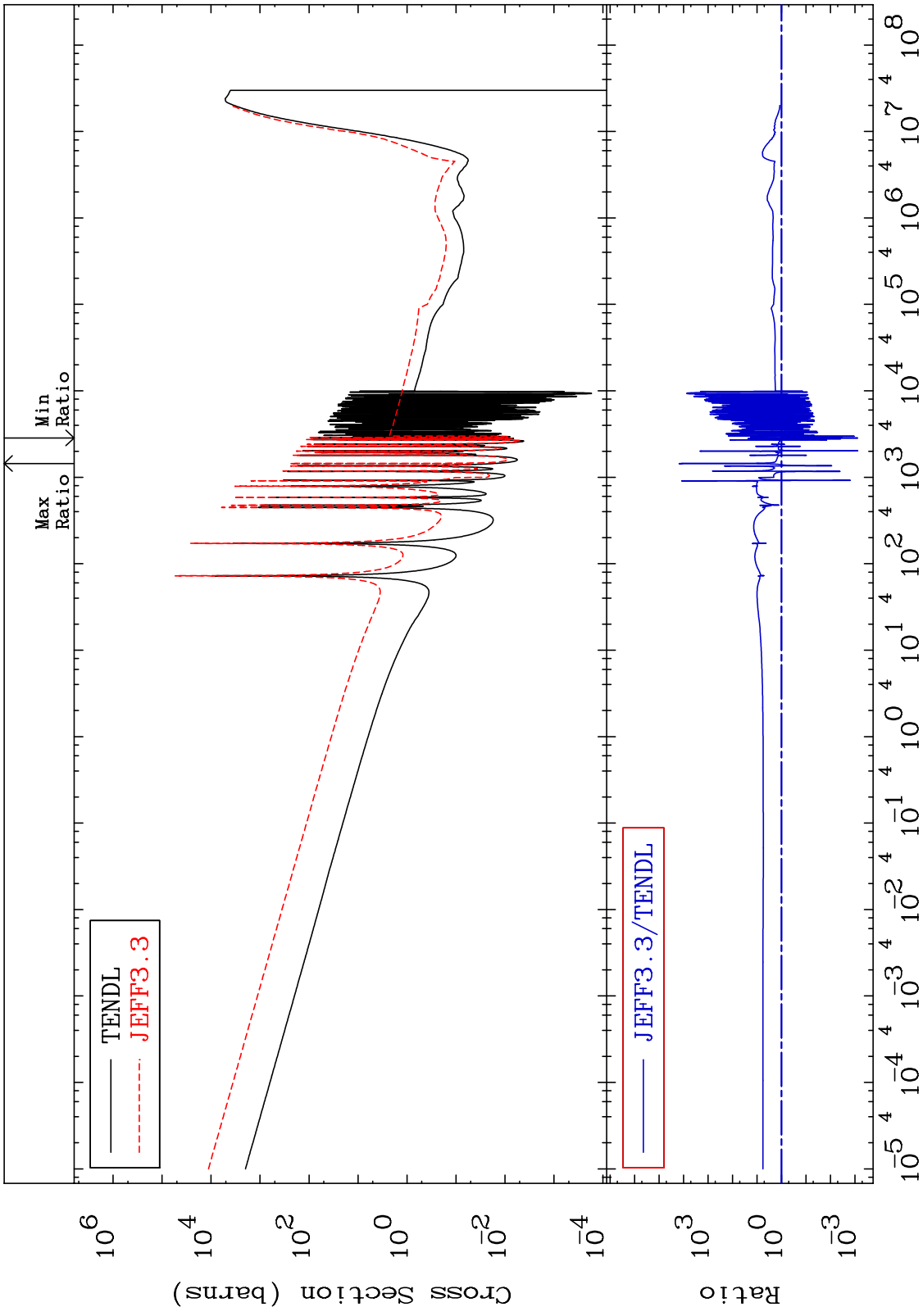


MAT 7243 Dpa inelastic (mt51-91) 72-Hf-180
Cross Section -28.89 To 71.76 %



65 72-Hf-180

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

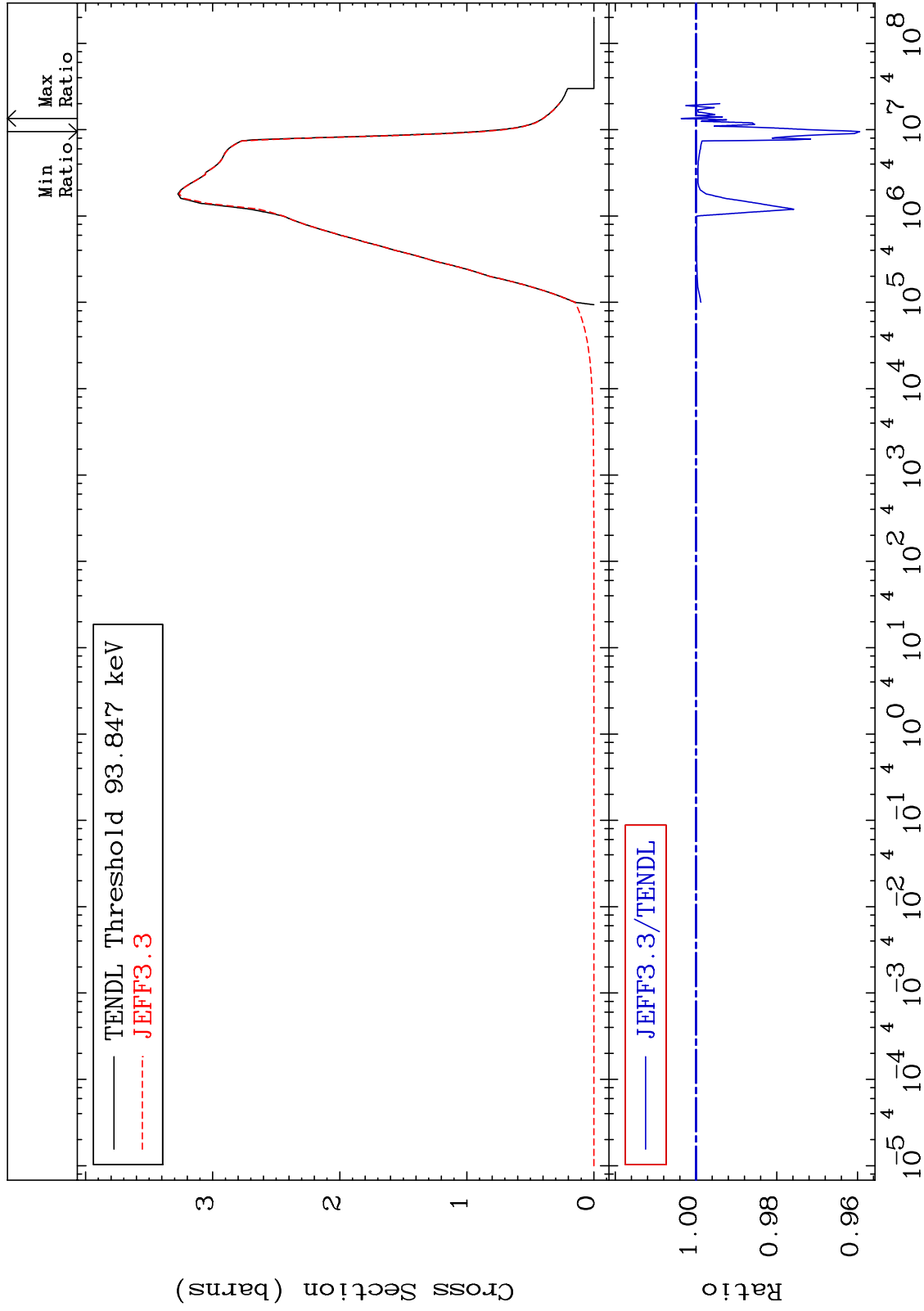


MAT 7243

Inelastic: 72-Hf-180g

72-Hf-180

Radionuclide Production Cross Section -4.058 To 0.367 %

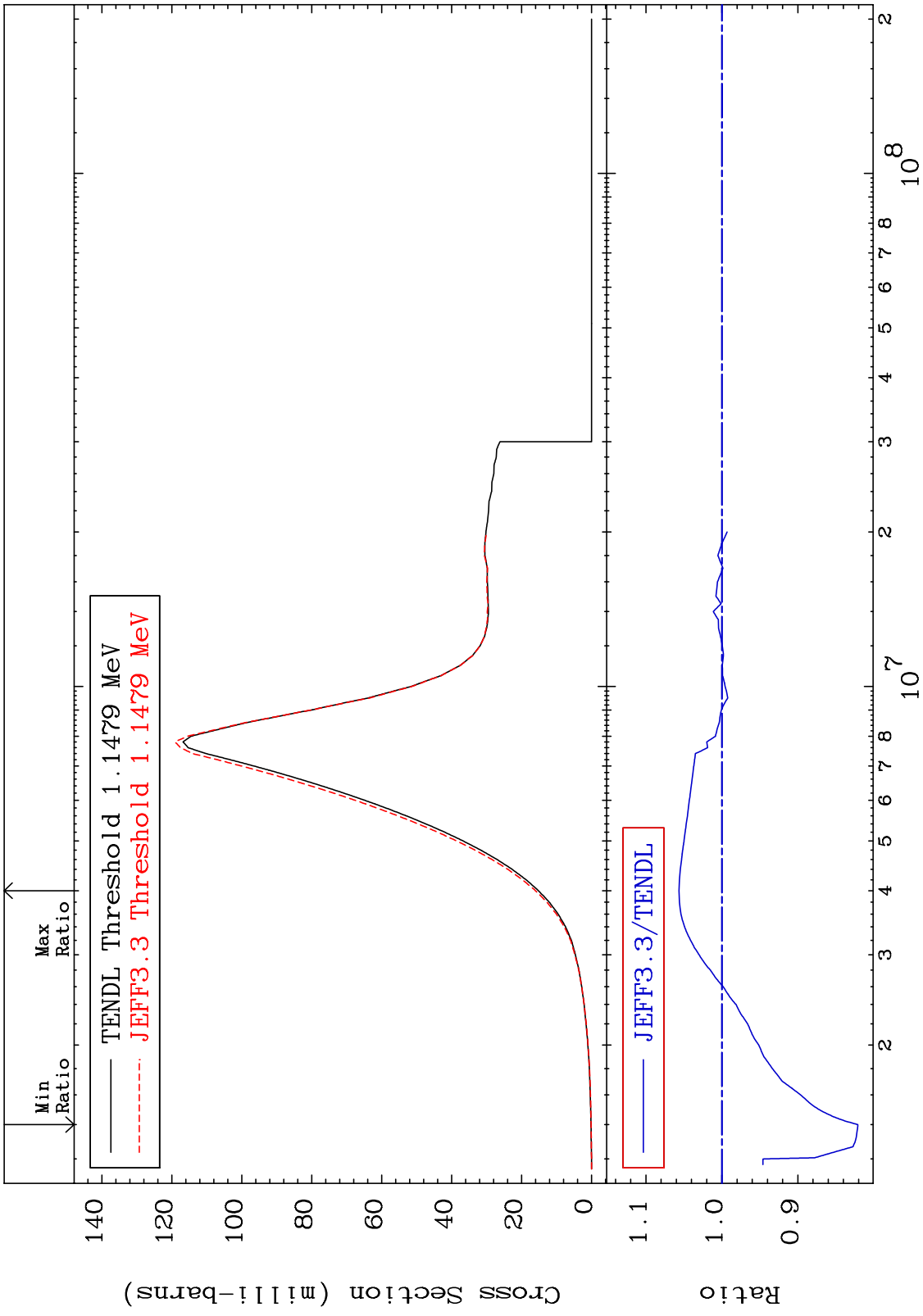


67

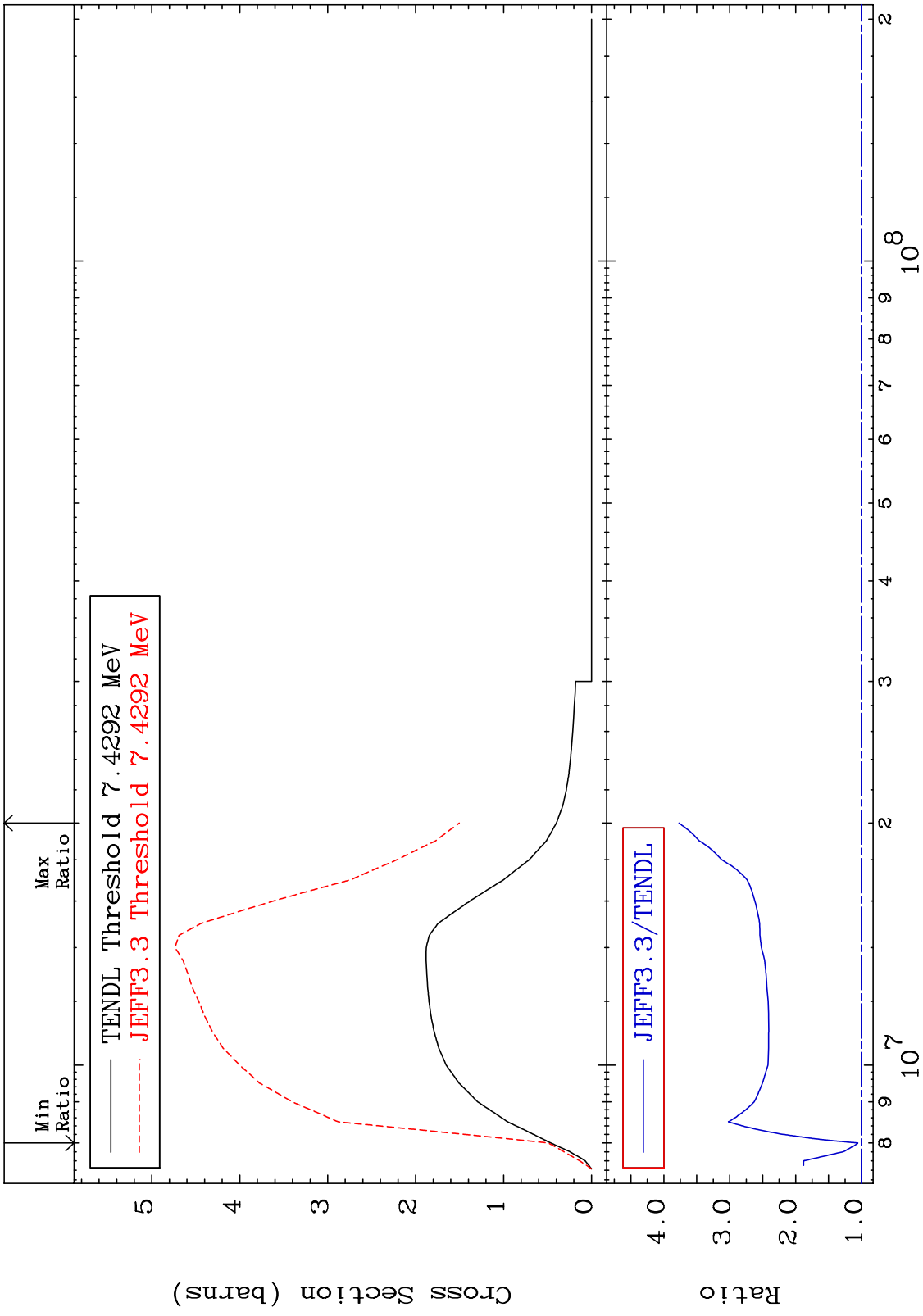
Incident Energy (eV)

72-Hf-180

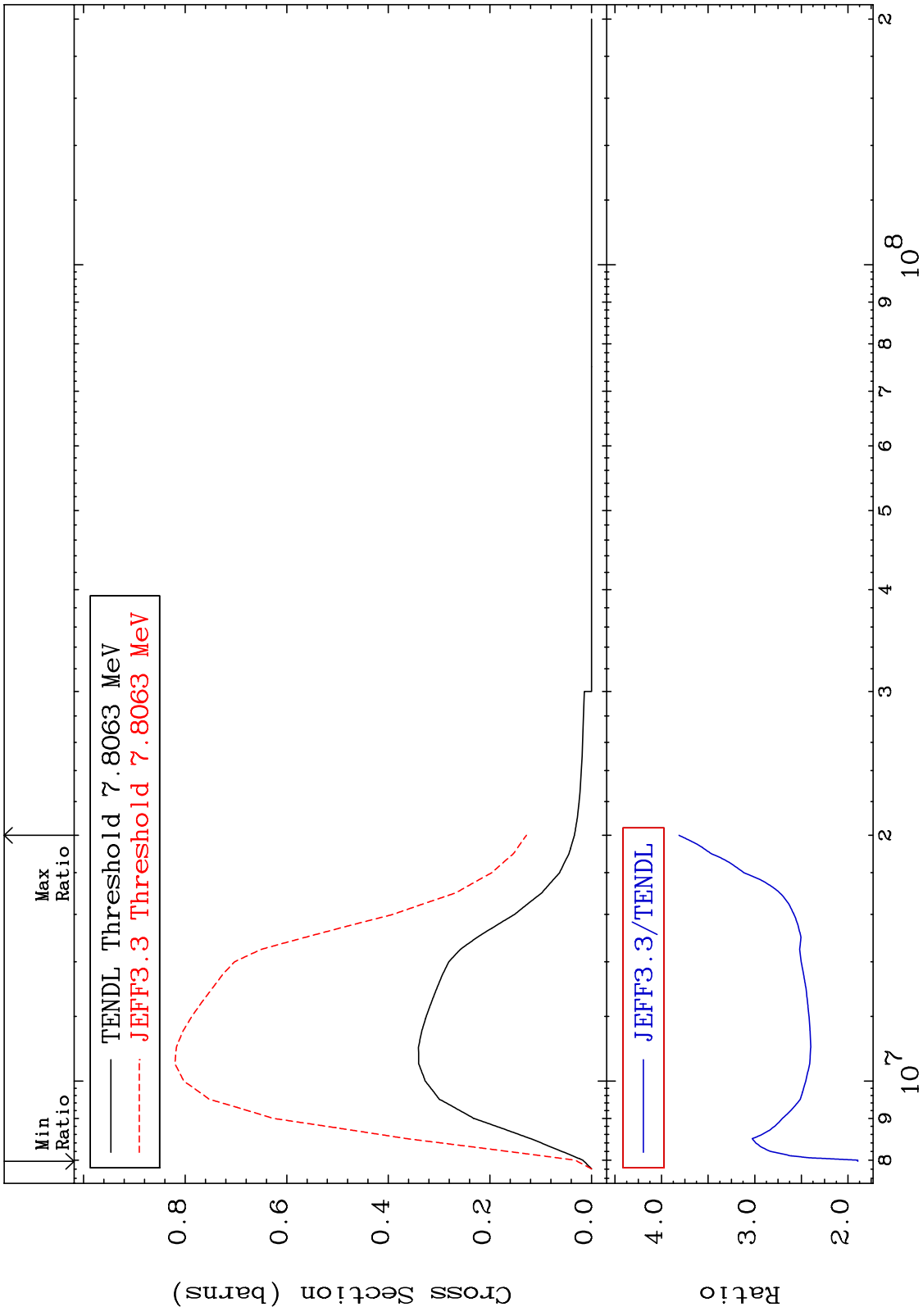
MAT 7243 Inelastic: 72-Hf-180m7 72-Hf-180
 Radionuclide Production Cross Section -17.90 To 5.640 %



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



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



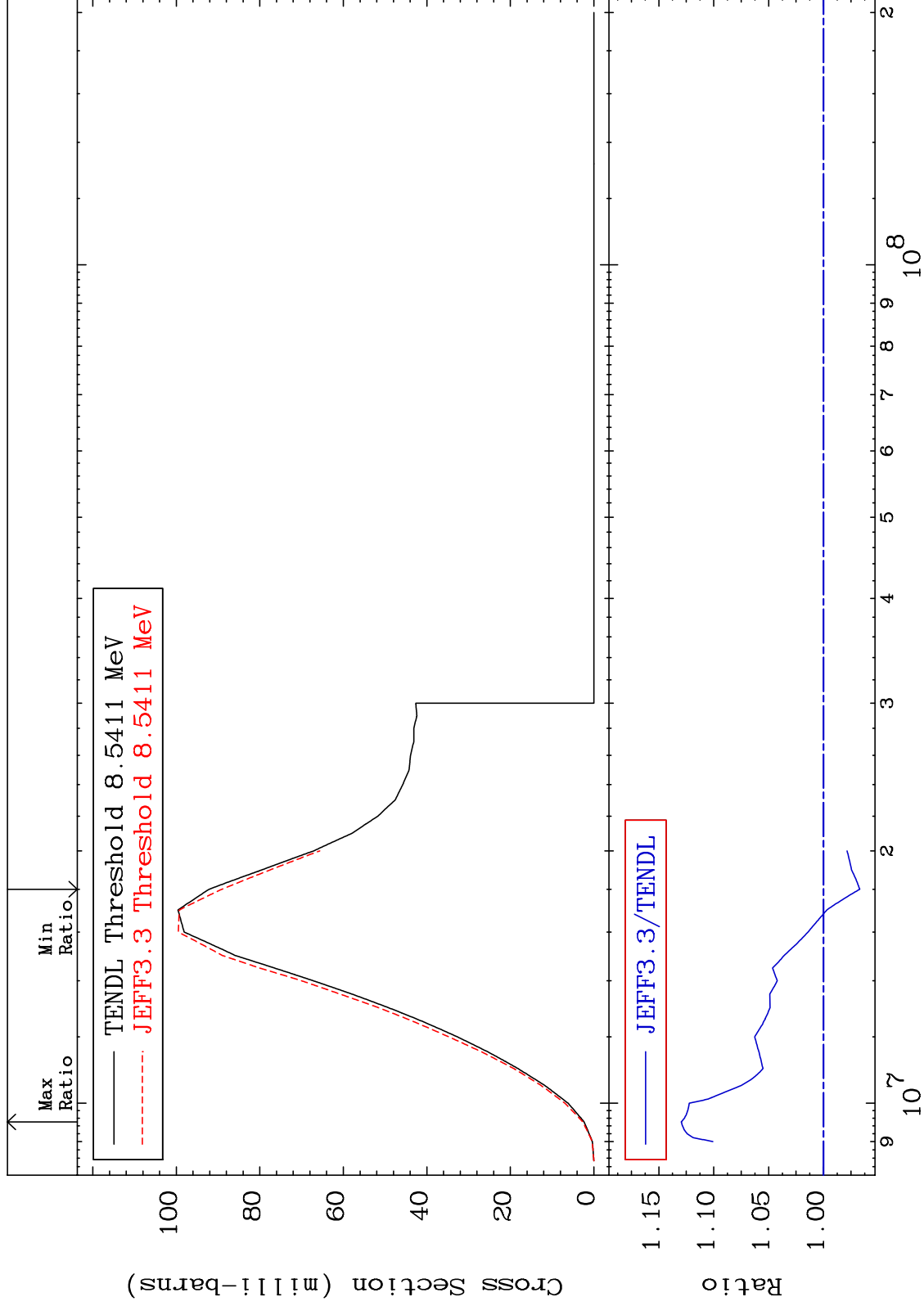
70 72-Hf-180

MAT 7243

(n,2n) : 72-Hf-179m10

72-Hf-180

Radionuclide Production Cross Section -3.298 To 12.96 %



71

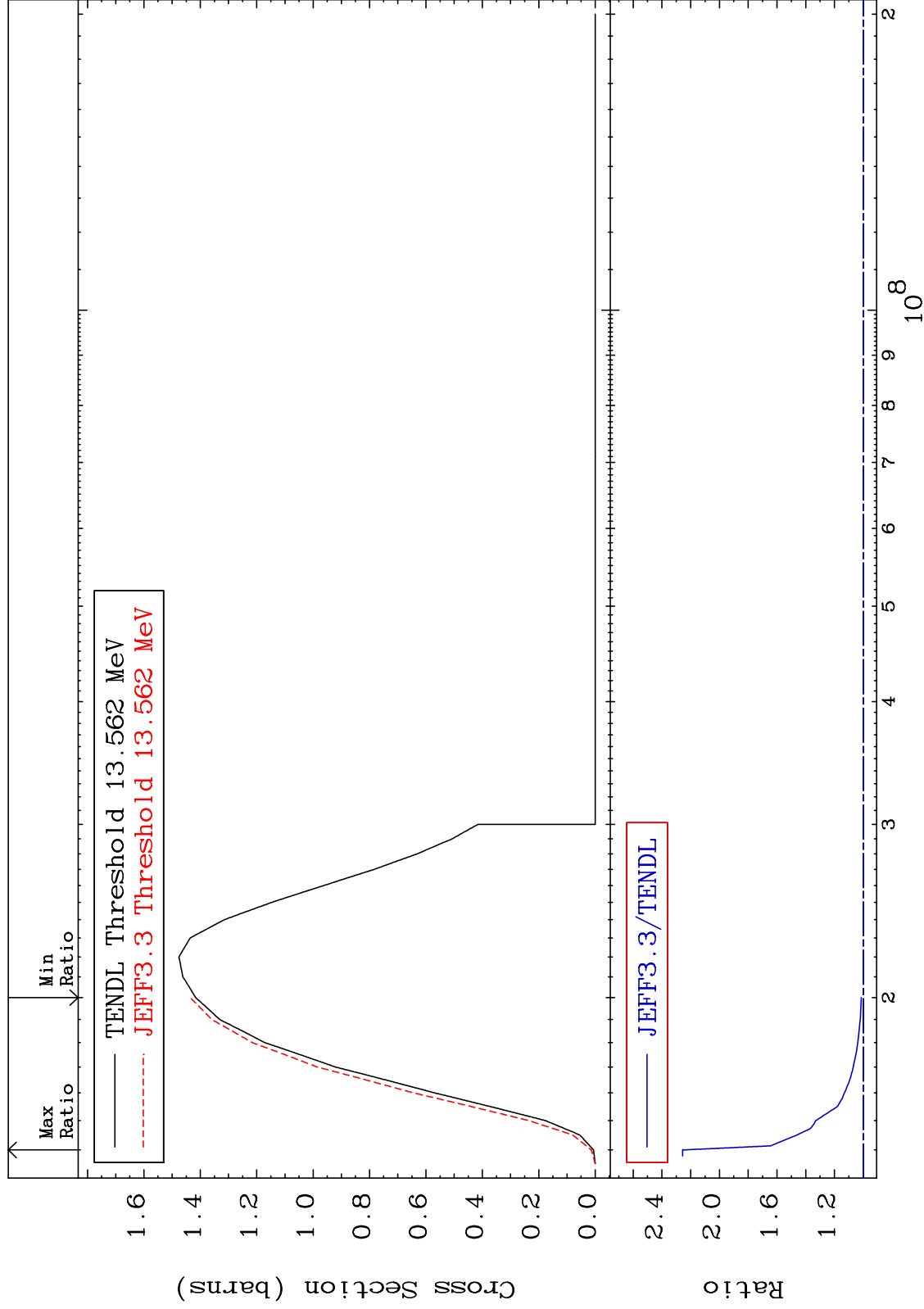
72-Hf-180

MAT 7243

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

72-Hf-180

Radionuclide Production Cross Section 1.335 To 125.6 %



72

Incident Energy (eV)

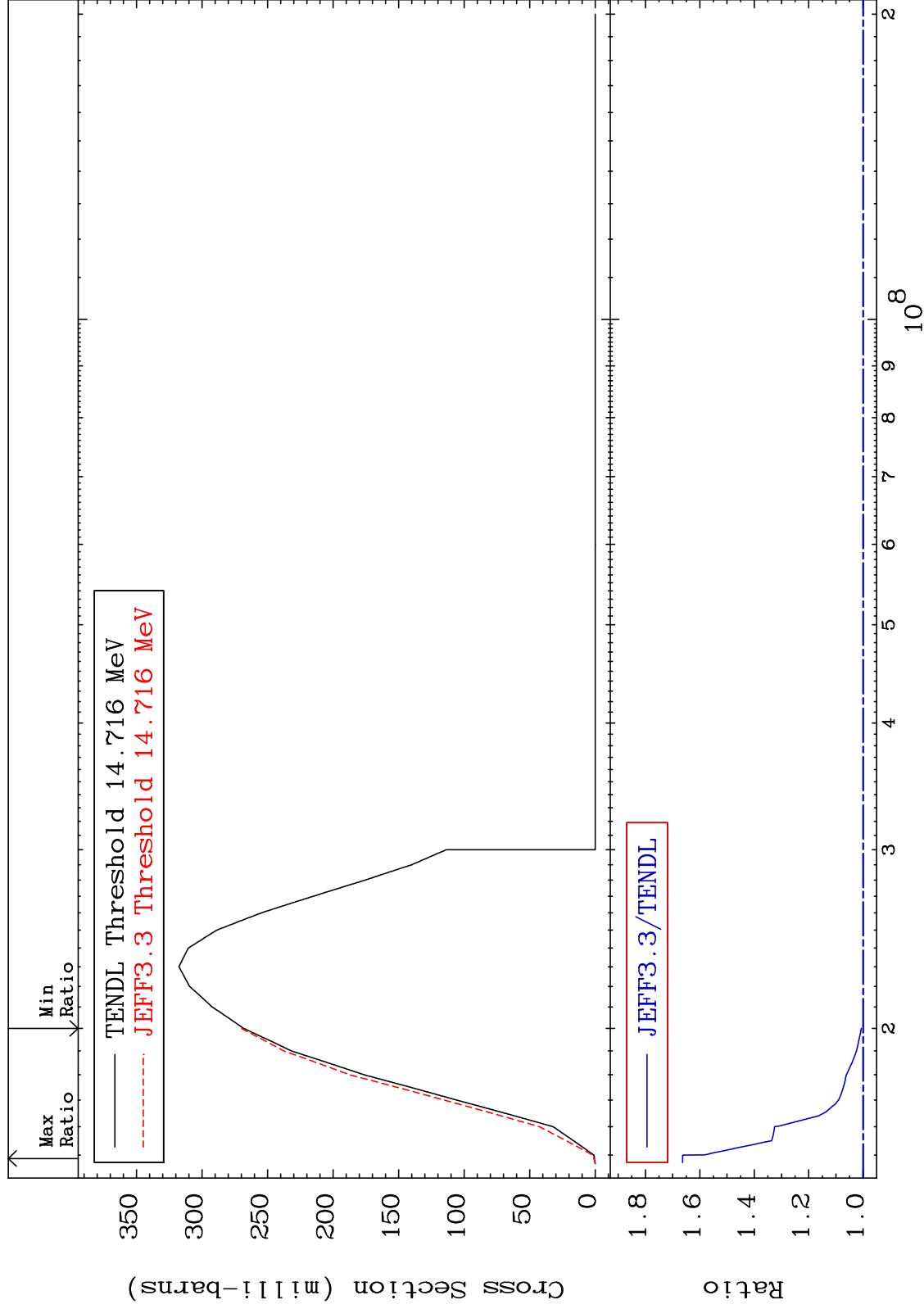
72-Hf-180

MAT 7243

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

72-Hf-180

Radionuclide Production Cross Section 0.663 To 66.30 %



73

Incident Energy (eV)

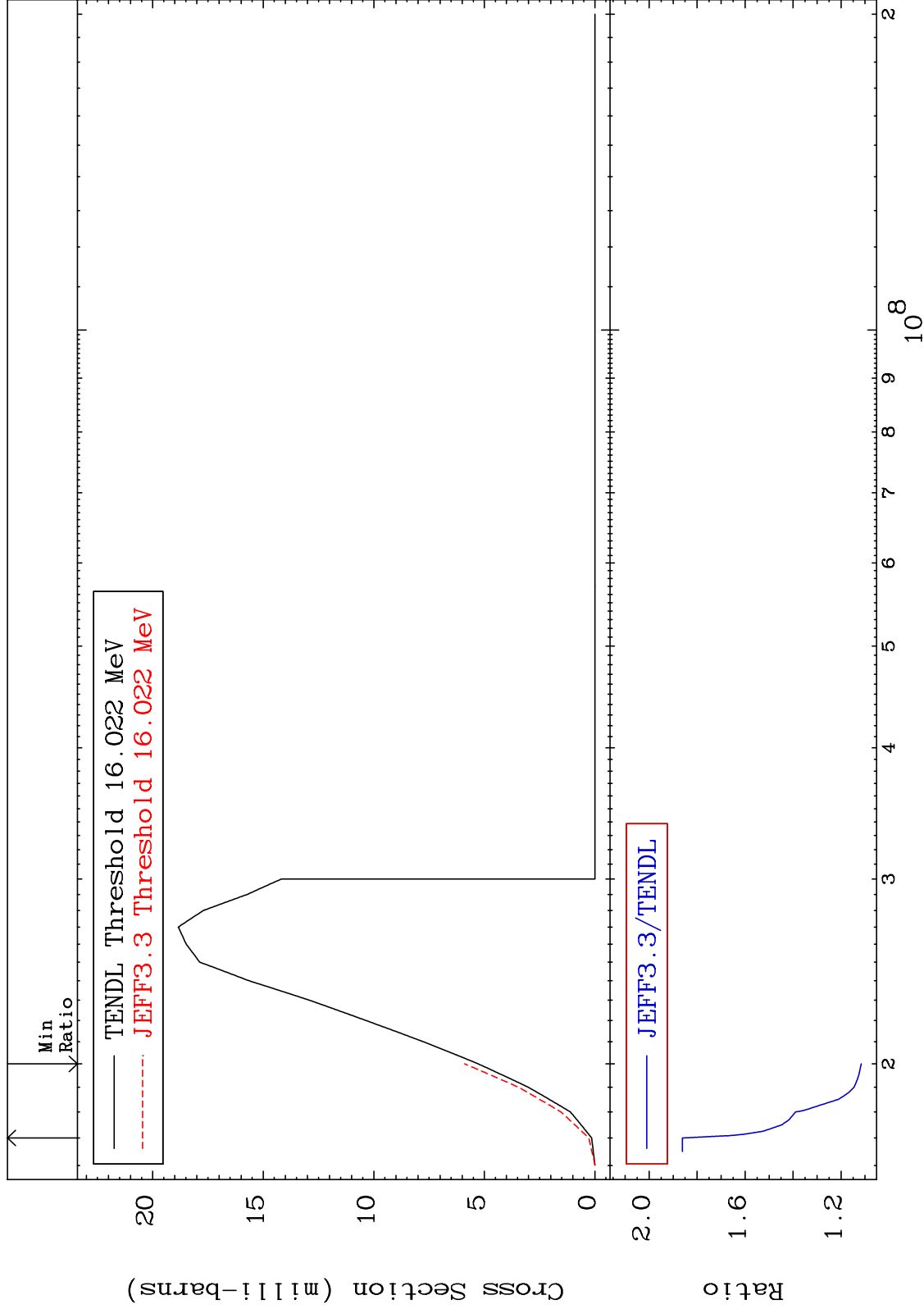
72-Hf-180

MAT 7243

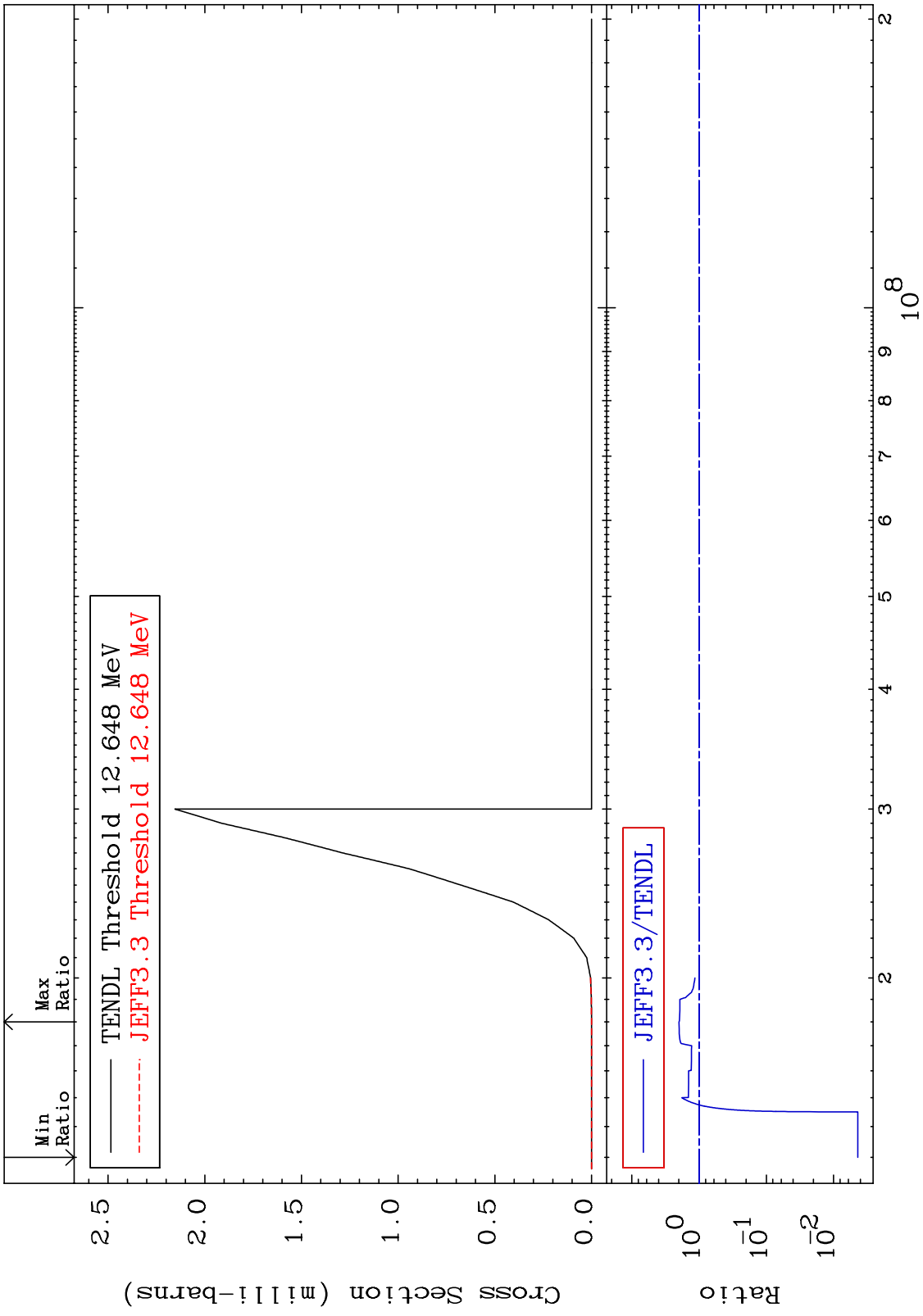
(n,3n):72-Hf-178m10

72-Hf-180

Radionuclide Production Cross Section 11.57 To 86.11 %

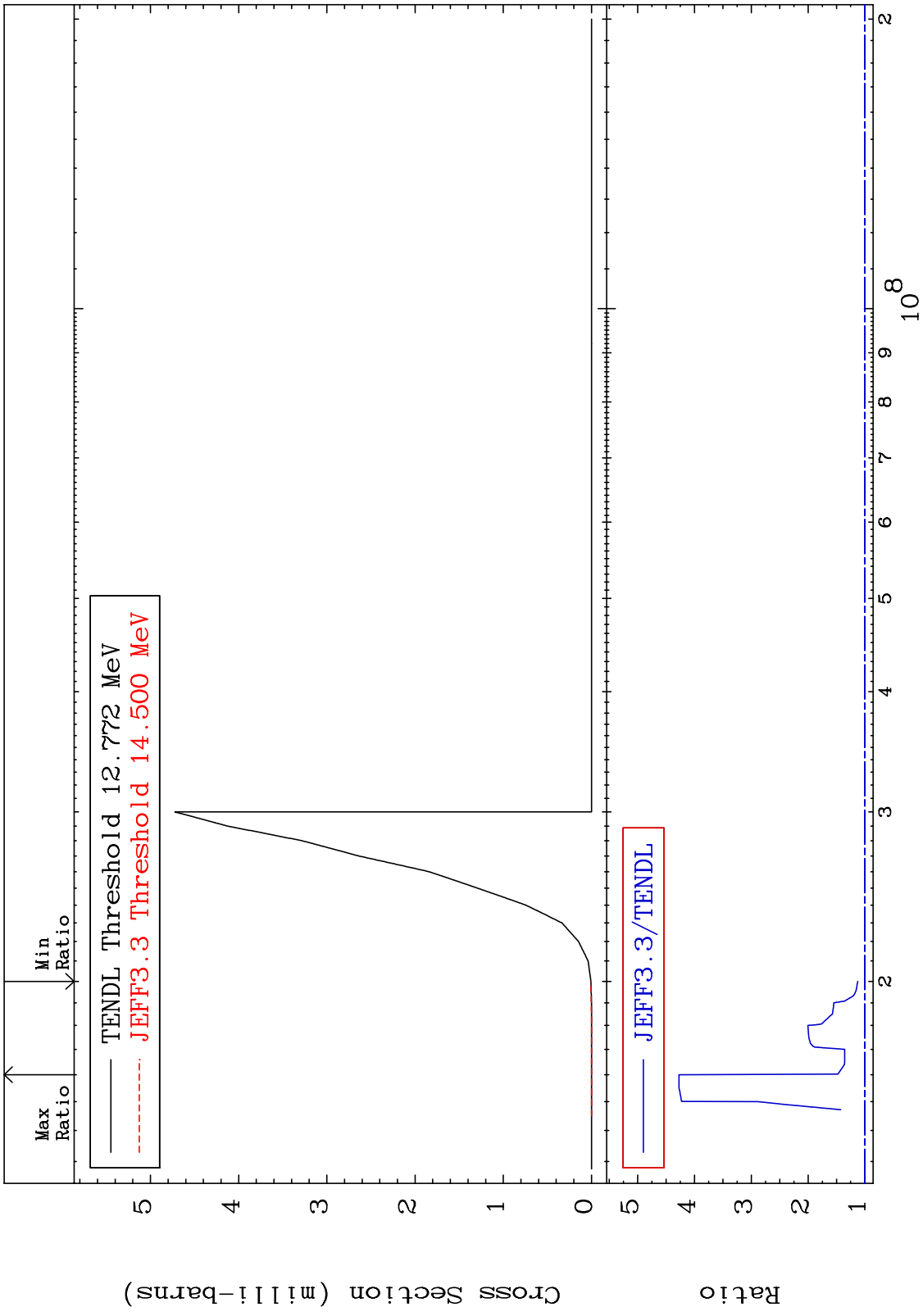


MAT 7243 (n, n') d:71-Lu-178g 72-Hf-180
 Radionuclide Production Cross Section -99.56 To 98.43 %

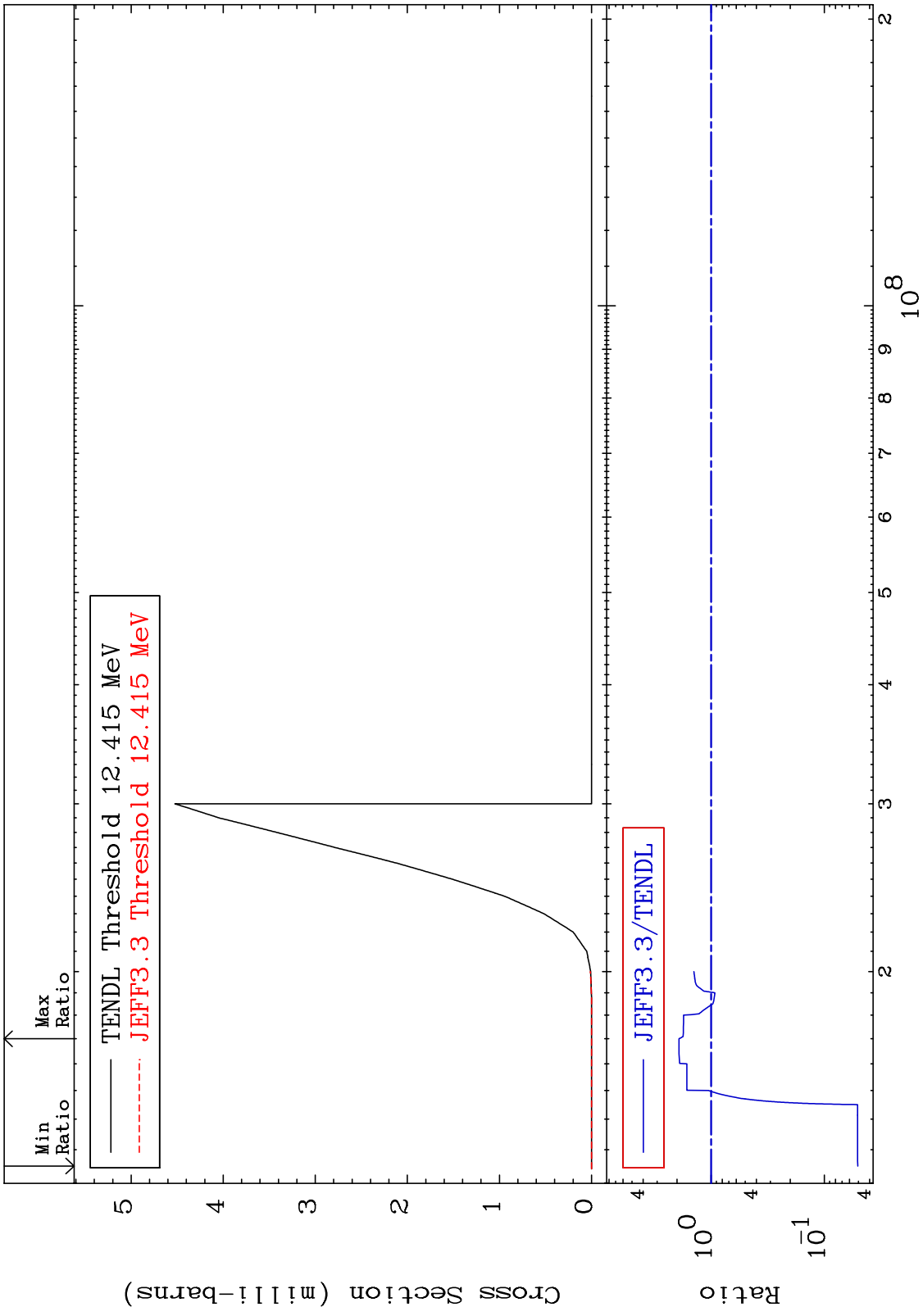


75 Incident Energy (eV) 72-Hf-180

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 %

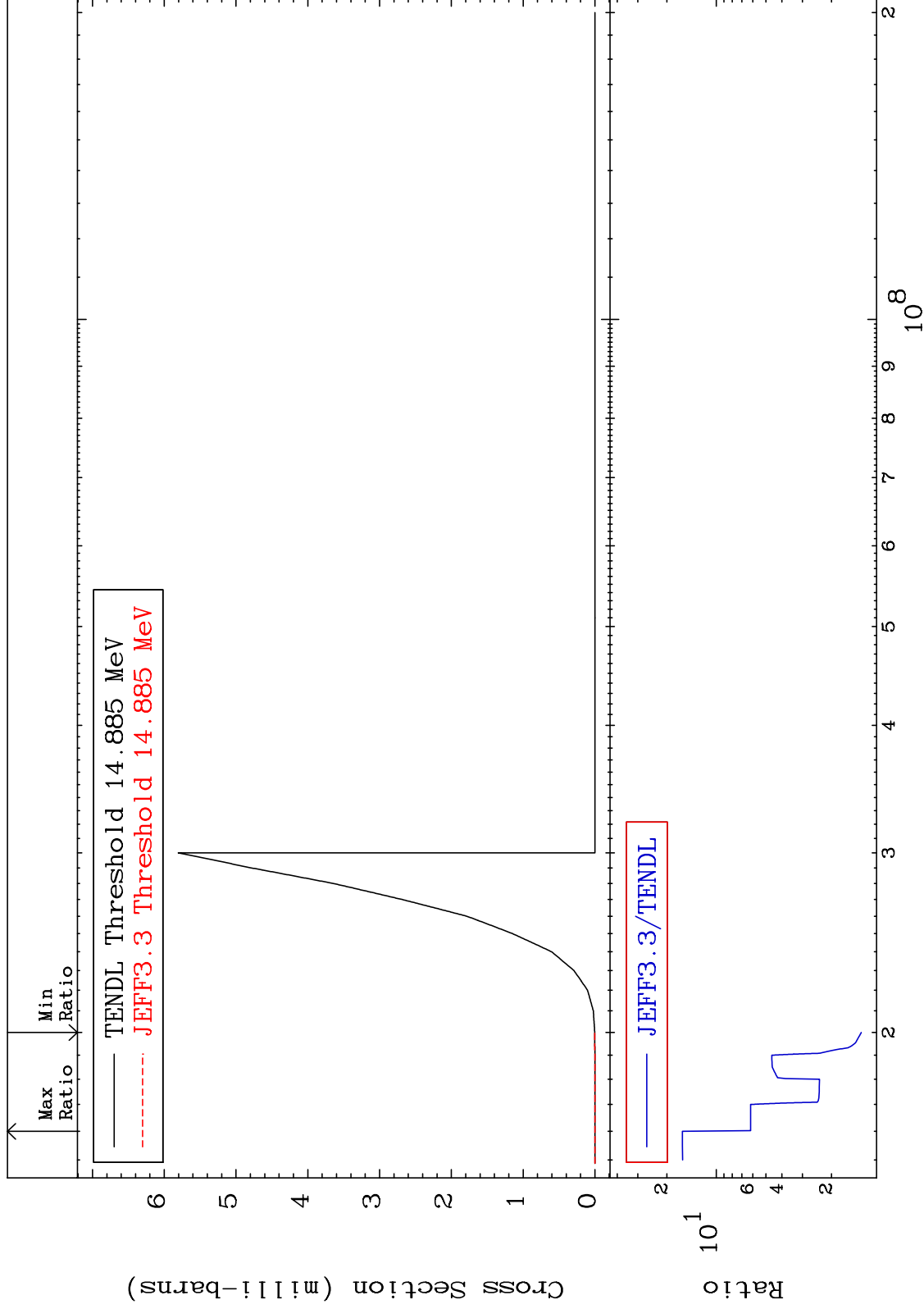


MAT 7243

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

72-Hf-180

Radionuclide Production Cross Section 31.64 To 1507. %



78

Incident Energy (eV)

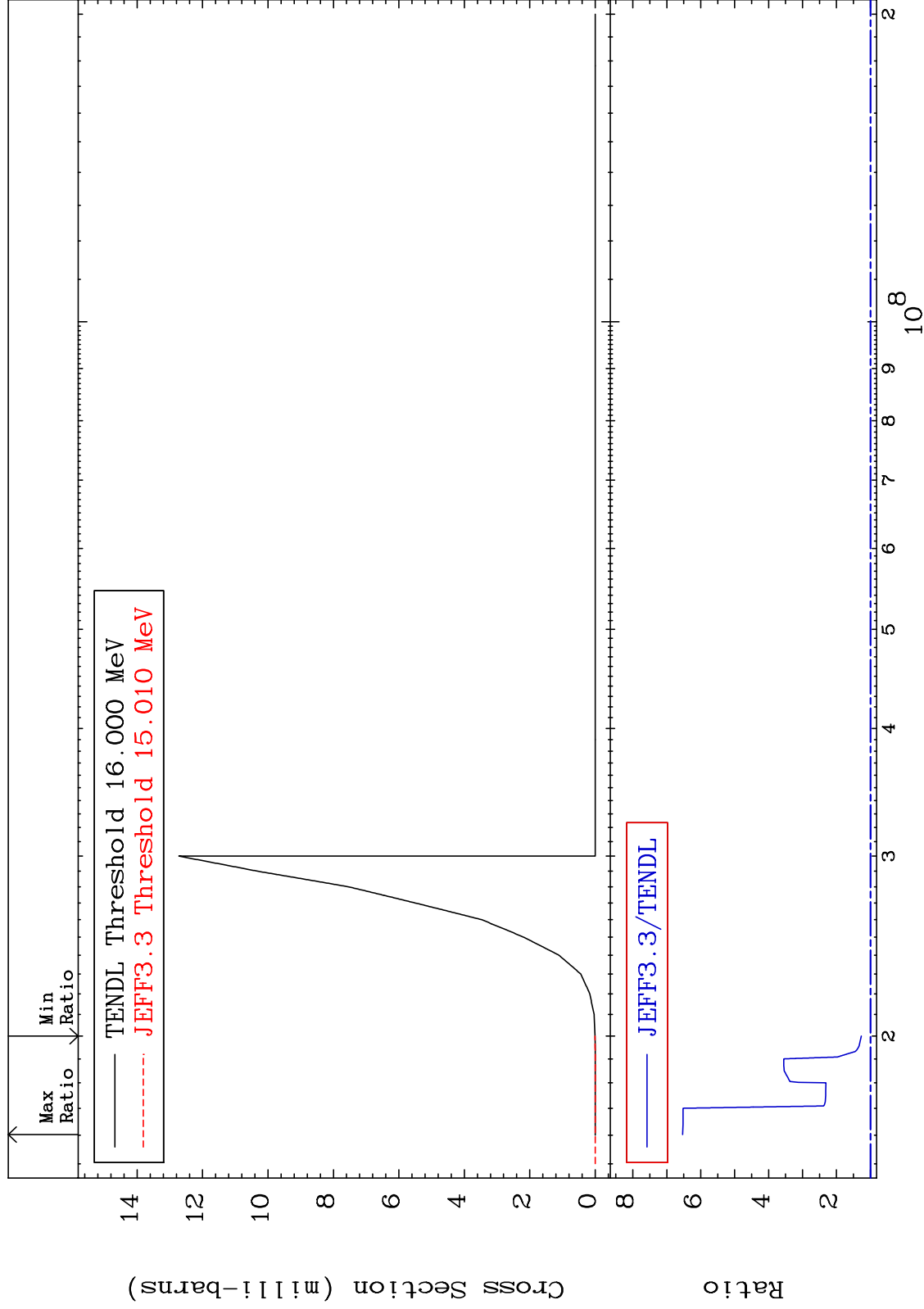
72-Hf-180

MAT 7243

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

72-Hf-180

Radionuclide Production Cross Section 26.71 To 553.1 %



79

Incident Energy (eV)

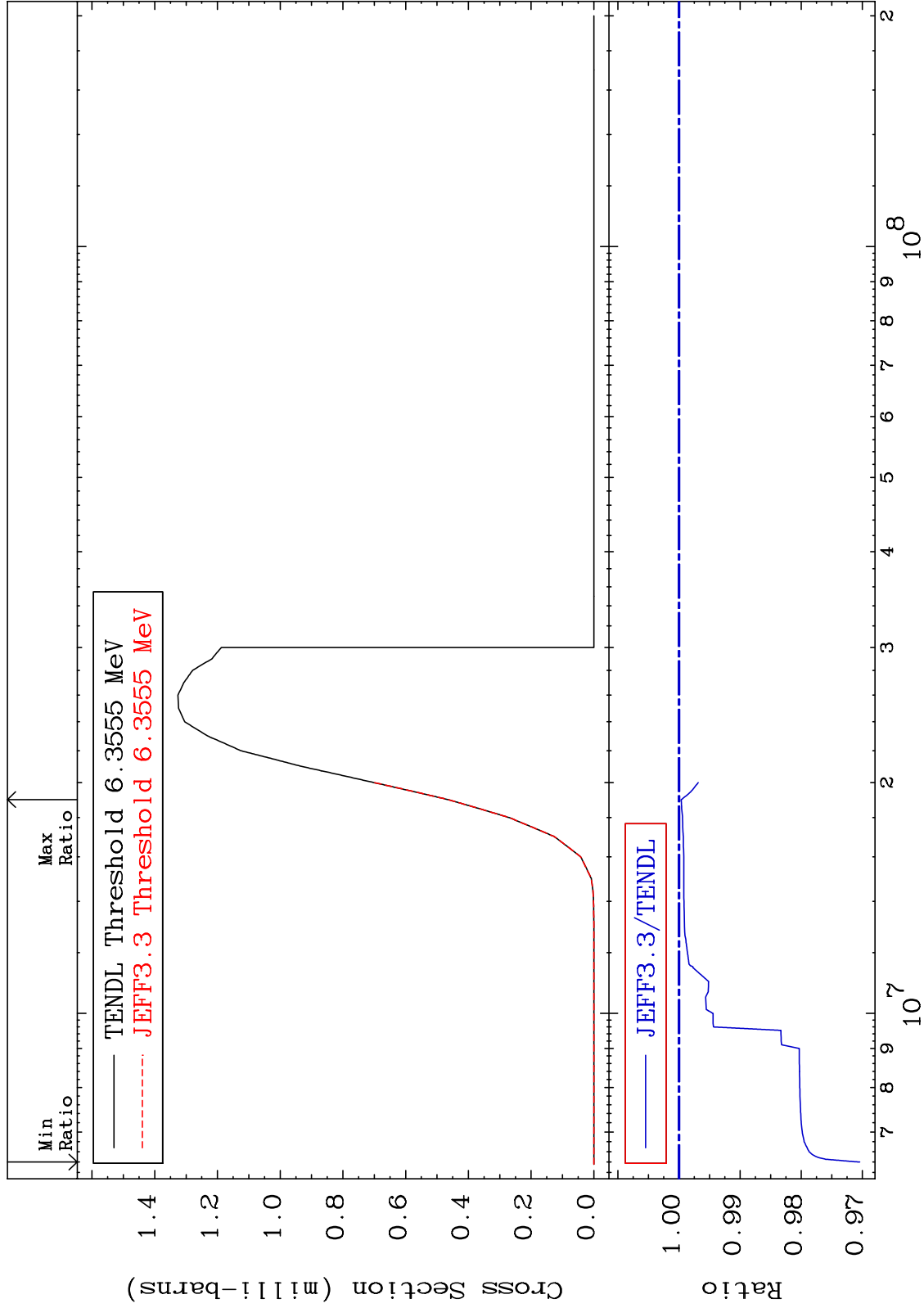
72-Hf-180

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%

