

Program Complot
(Version 2018-1)

by

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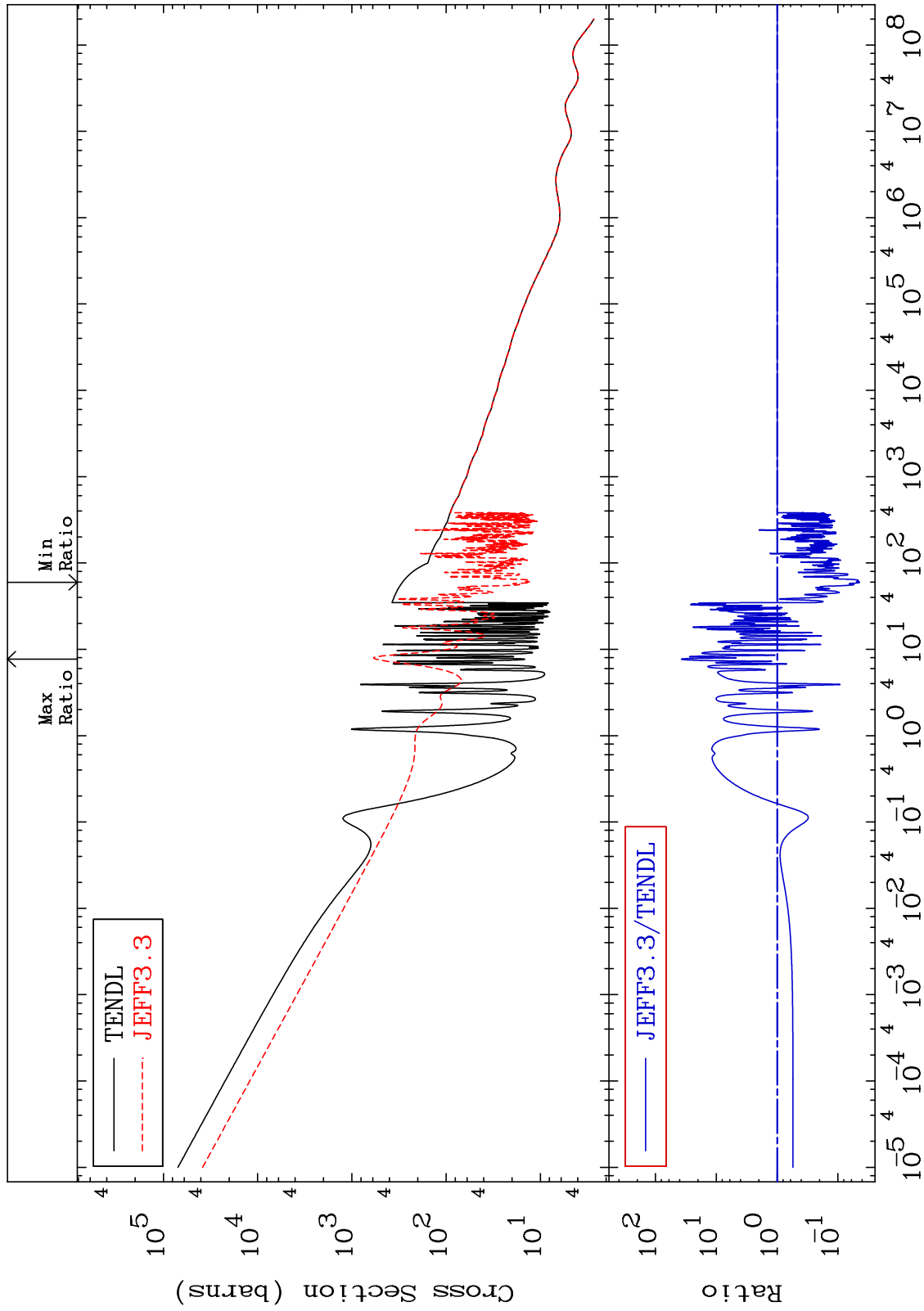
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7322

Total Cross Section

73-Ta-179
-95.63 To 3673. %



1

Incident Energy (eV)

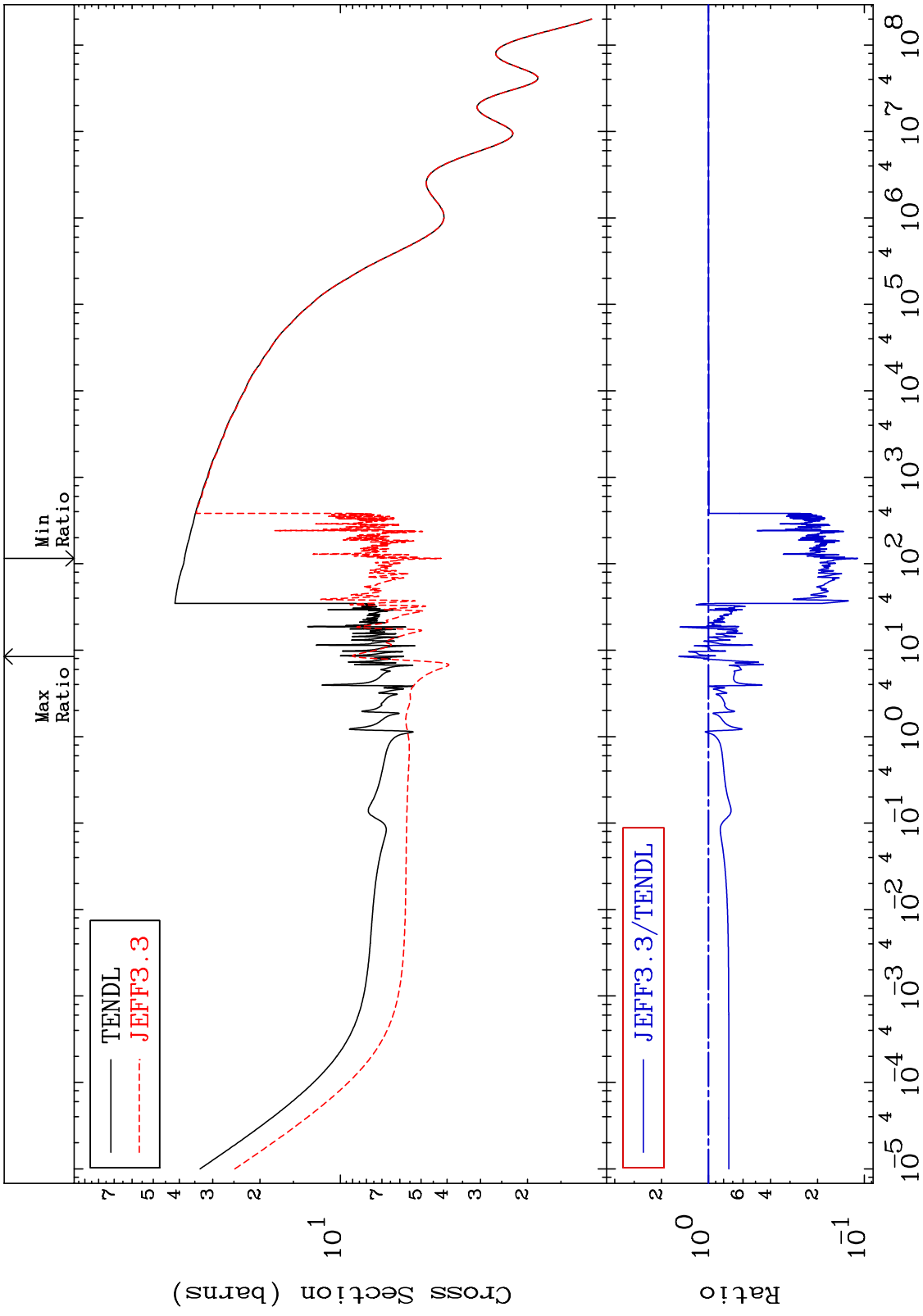
73-Ta-179

MAT 7322

73-Ta-179

-88.98 To 54.50 %

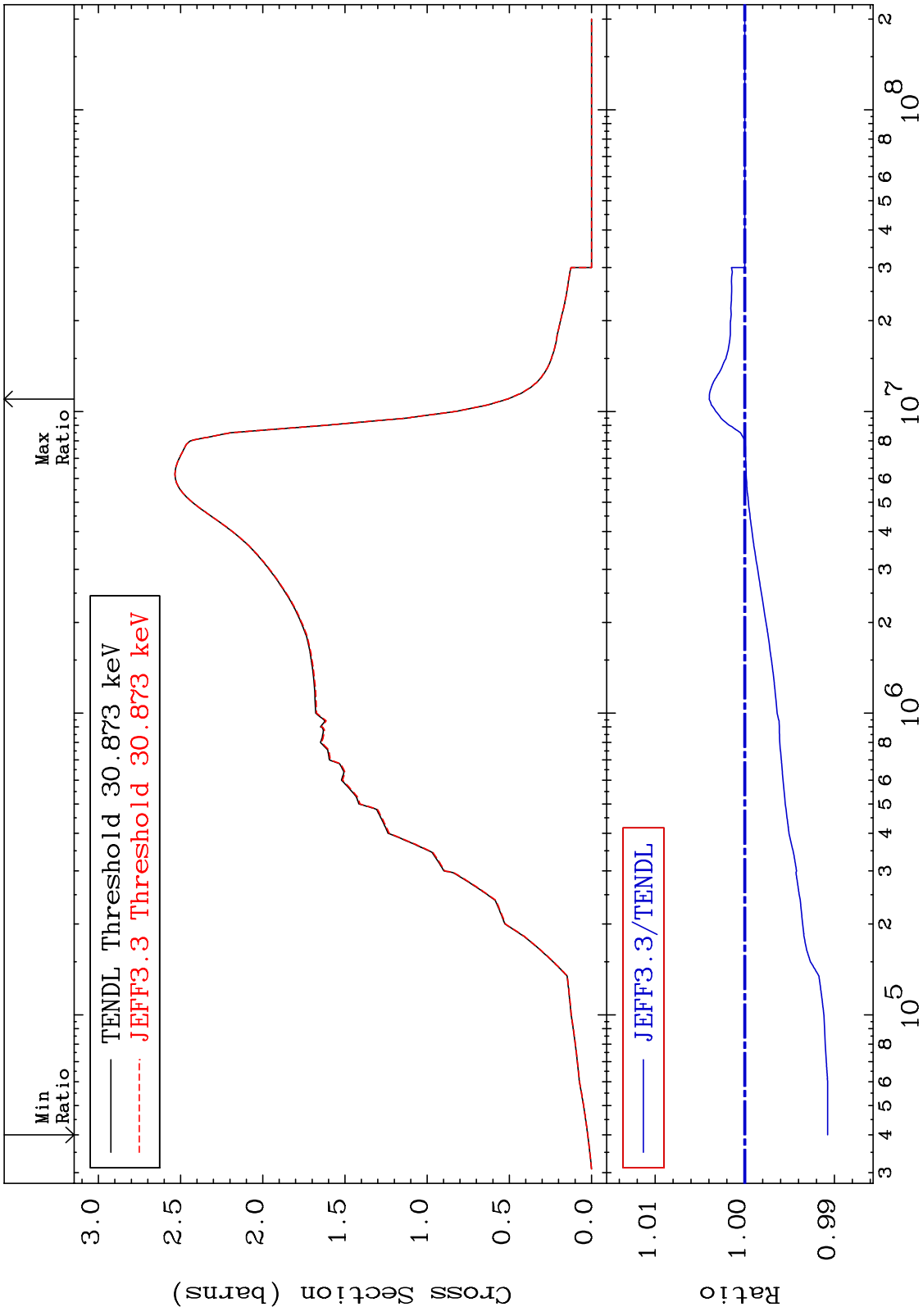
Elastic
Cross Section



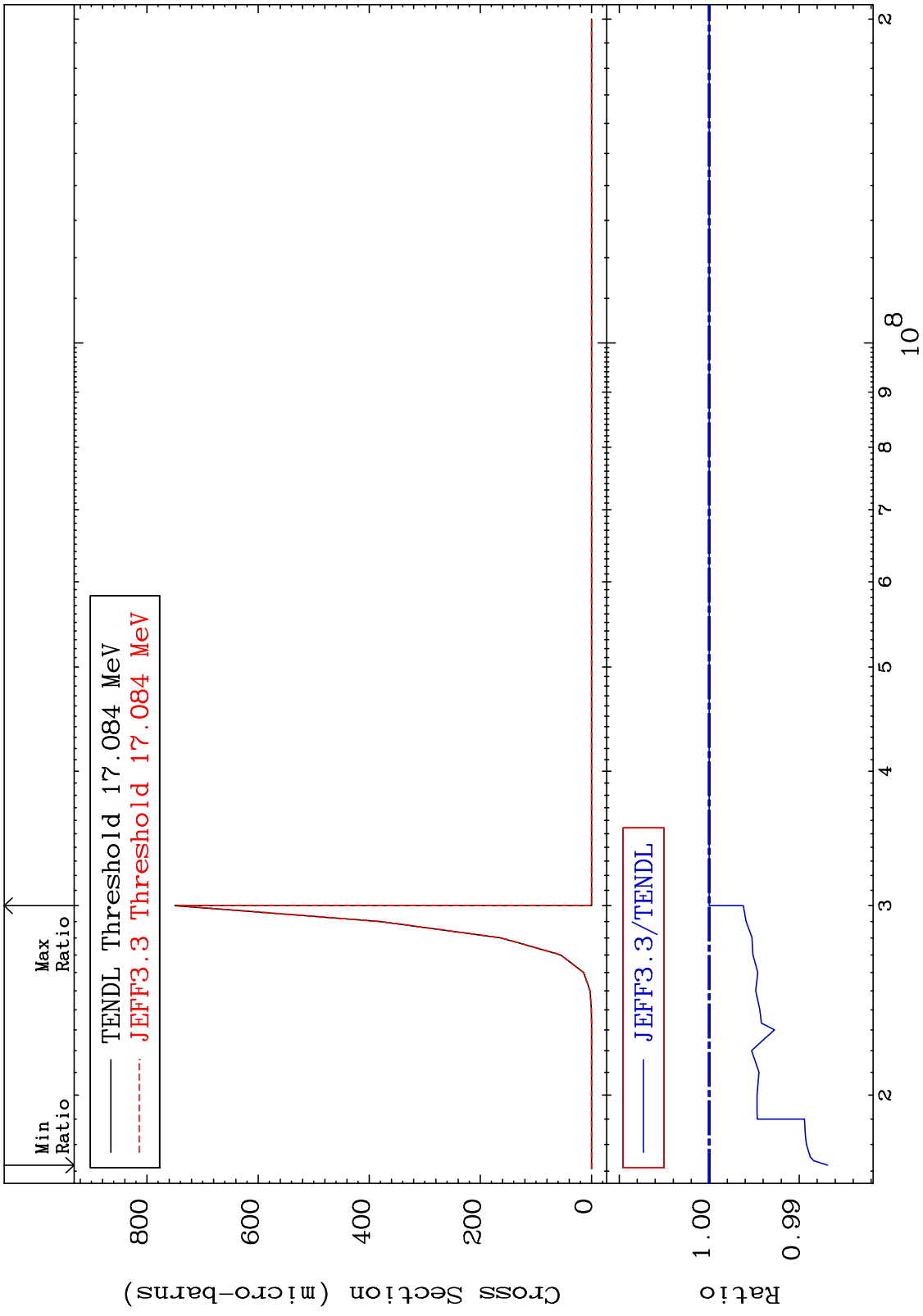
2

Incident Energy (eV)

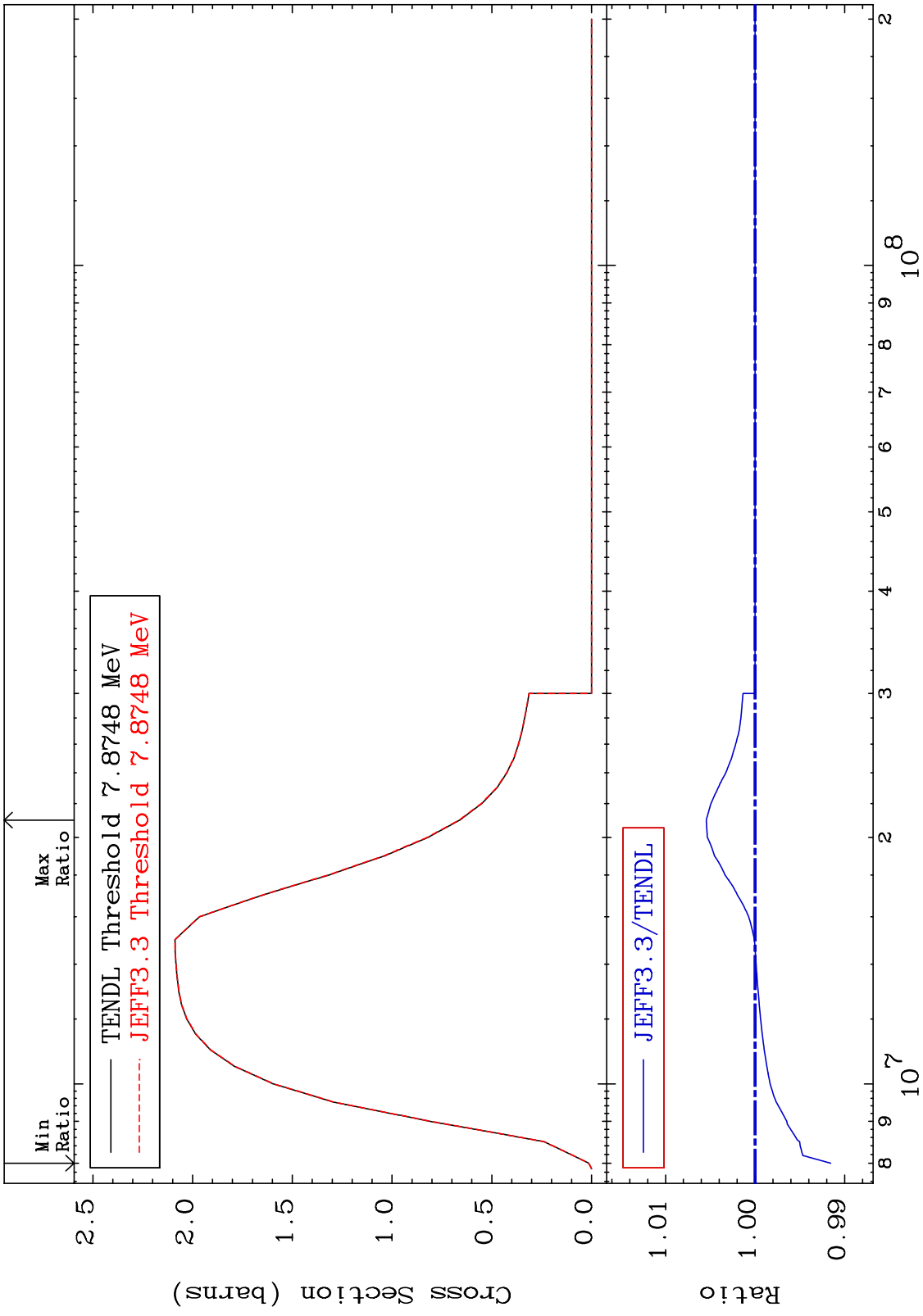
73-Ta-179



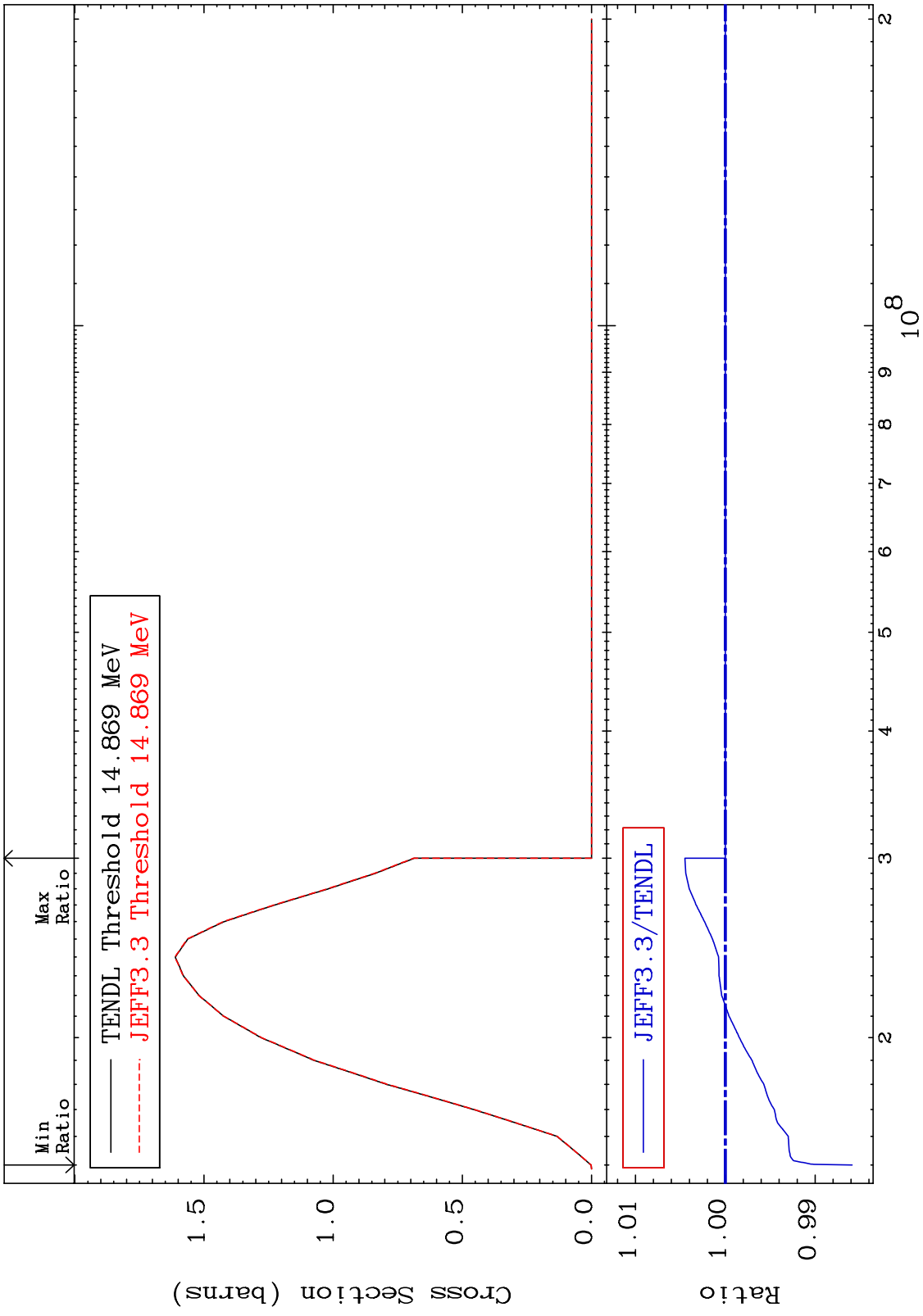
MAT 7322 (n,2n) d 73-Ta-179
Cross Section -1.317 To 0.000 %



MAT 7322 $(n,2n)$ Cross Section $^{73}\text{Ta-179}$ -0.844 To 0.546 %



5 $^{73}\text{Ta-179}$



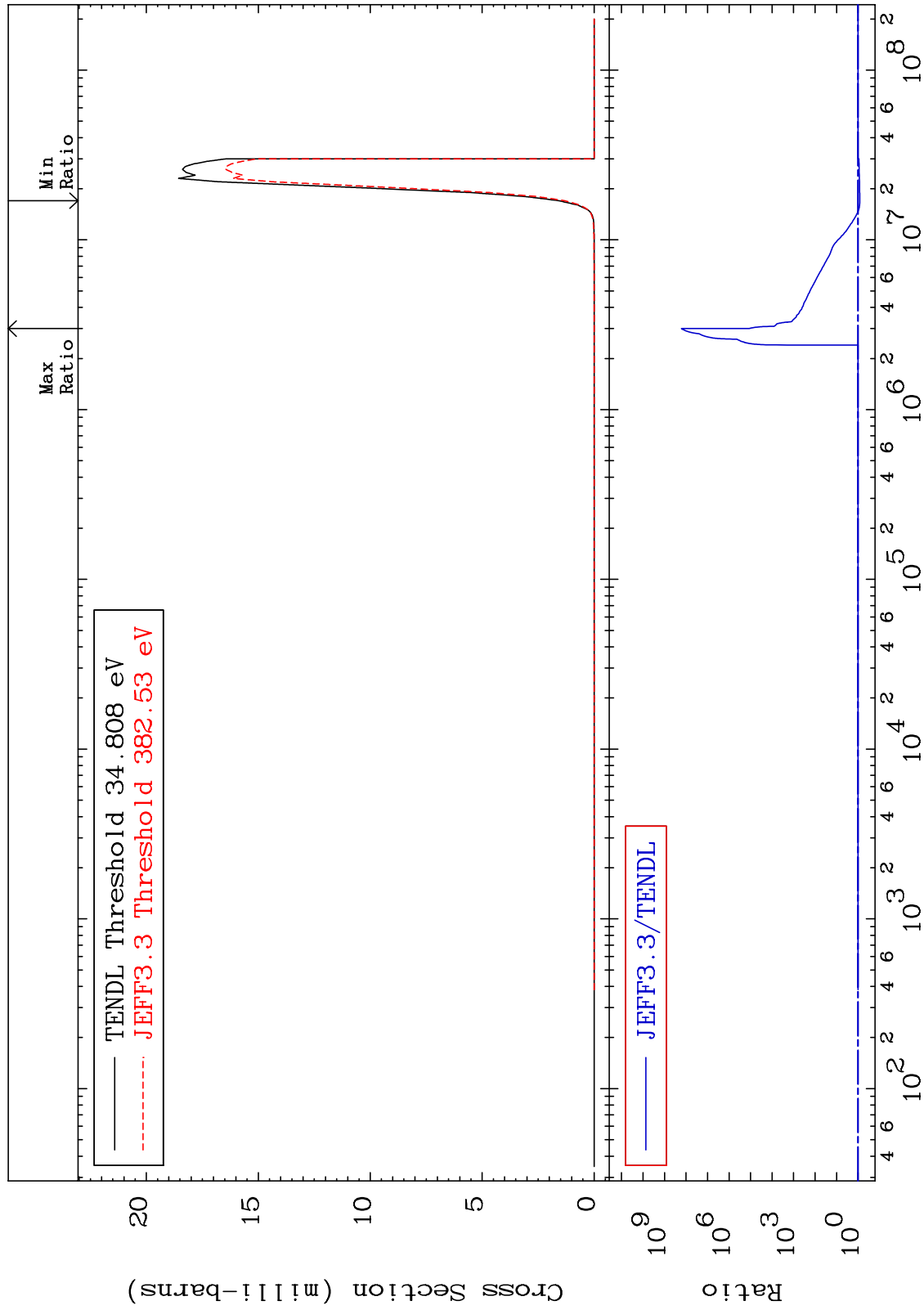
MAT 7322

(n, n') α

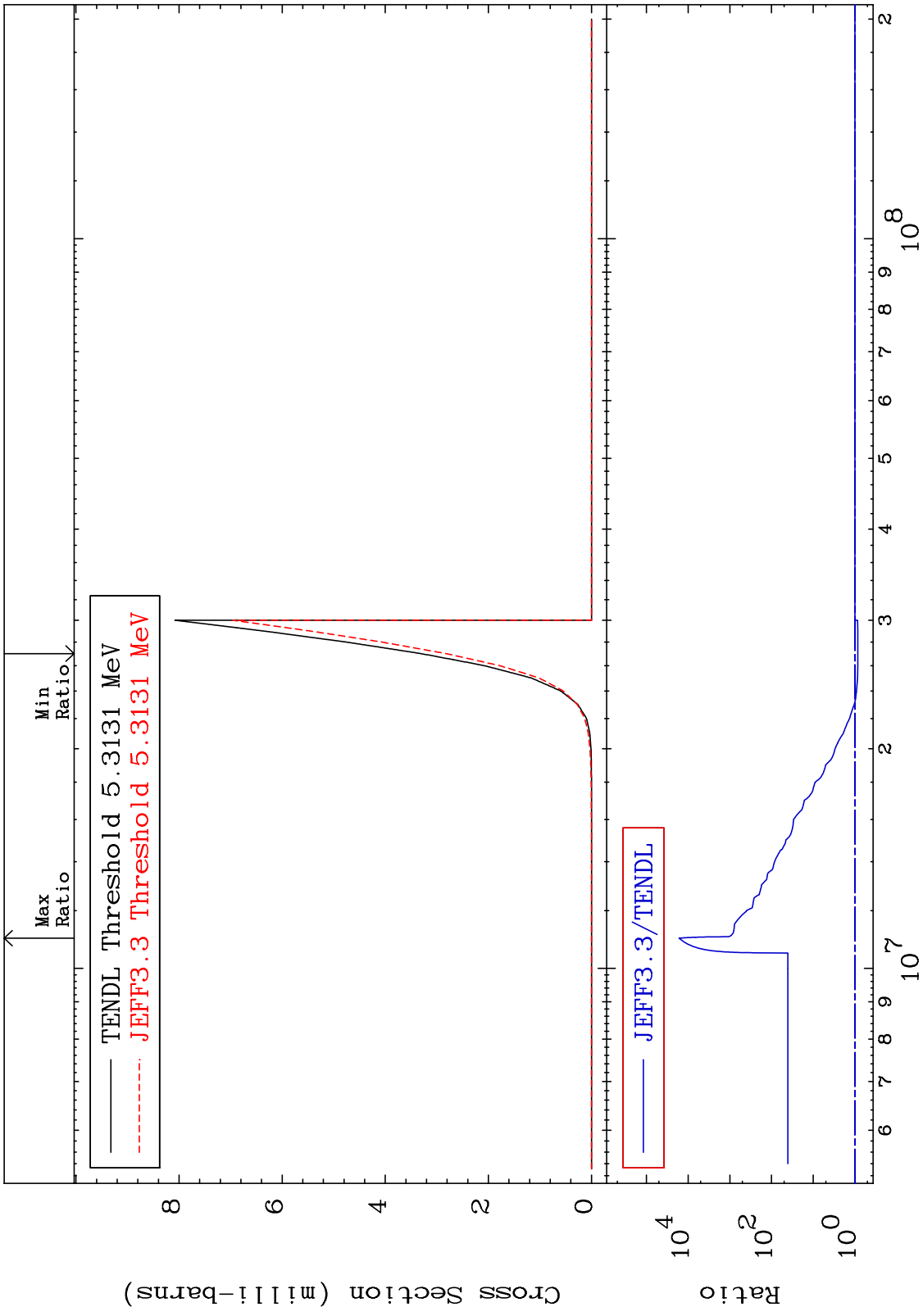
73-Ta-179

Cross Section

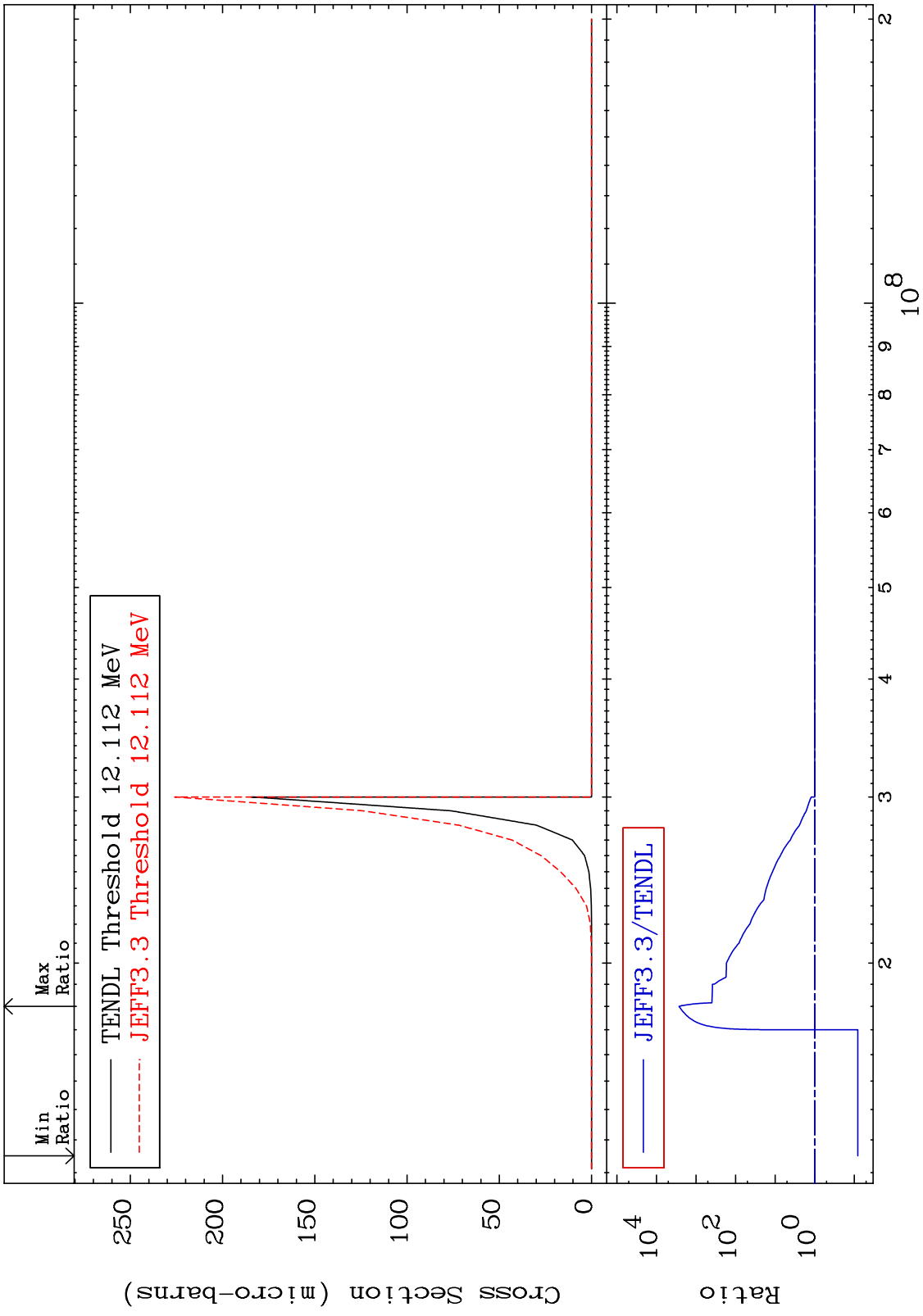
-16.86 To 9999. %



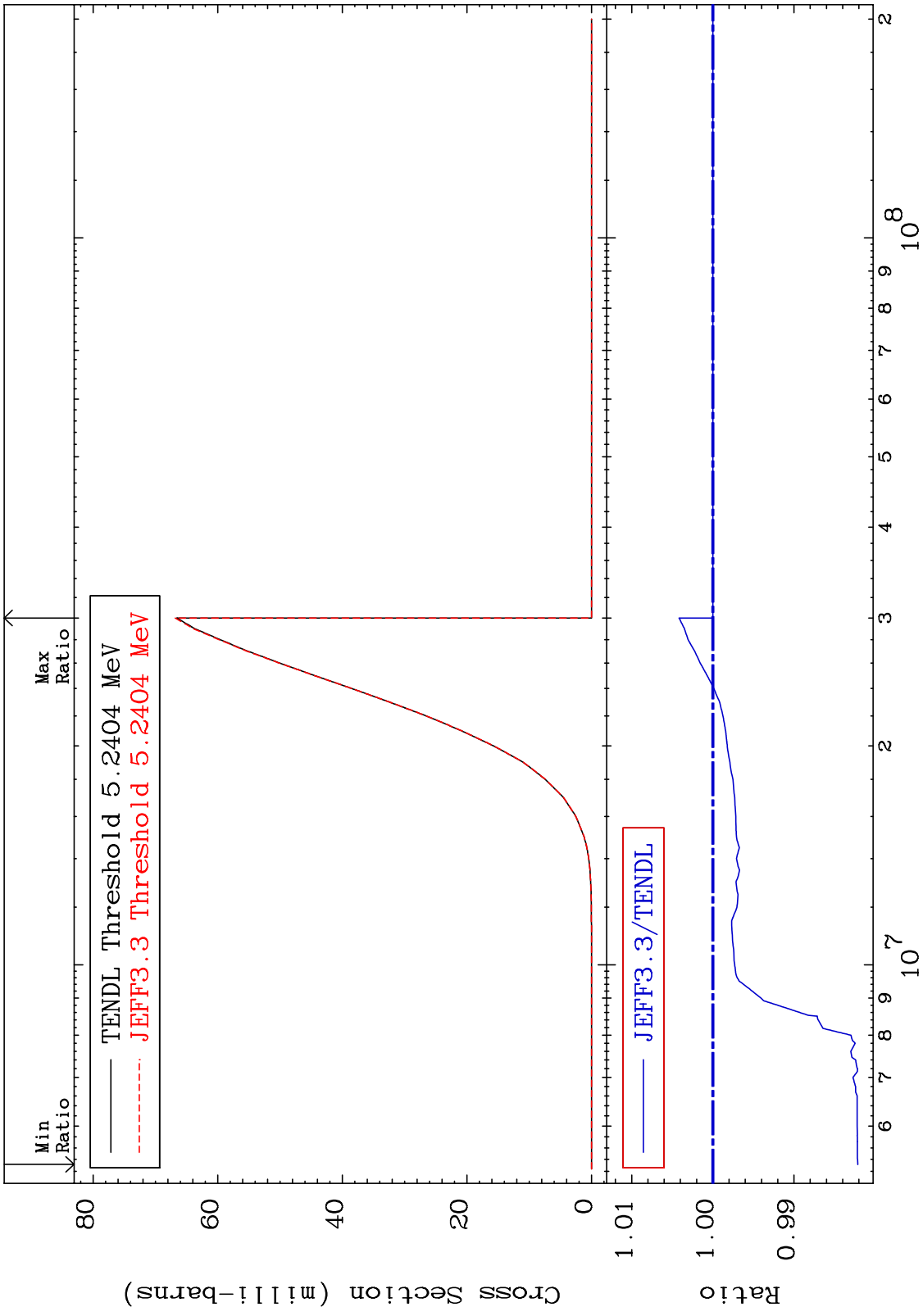
MAT 7322 $(n, 2n) \alpha$ $^{73}\text{Ta-179}$
 Cross Section -14.69 To 9999. %



MAT 7322 $(n, 3n) \alpha$ $^{73}\text{Ta-179}$
 Cross Section -91.90 To 9999. %

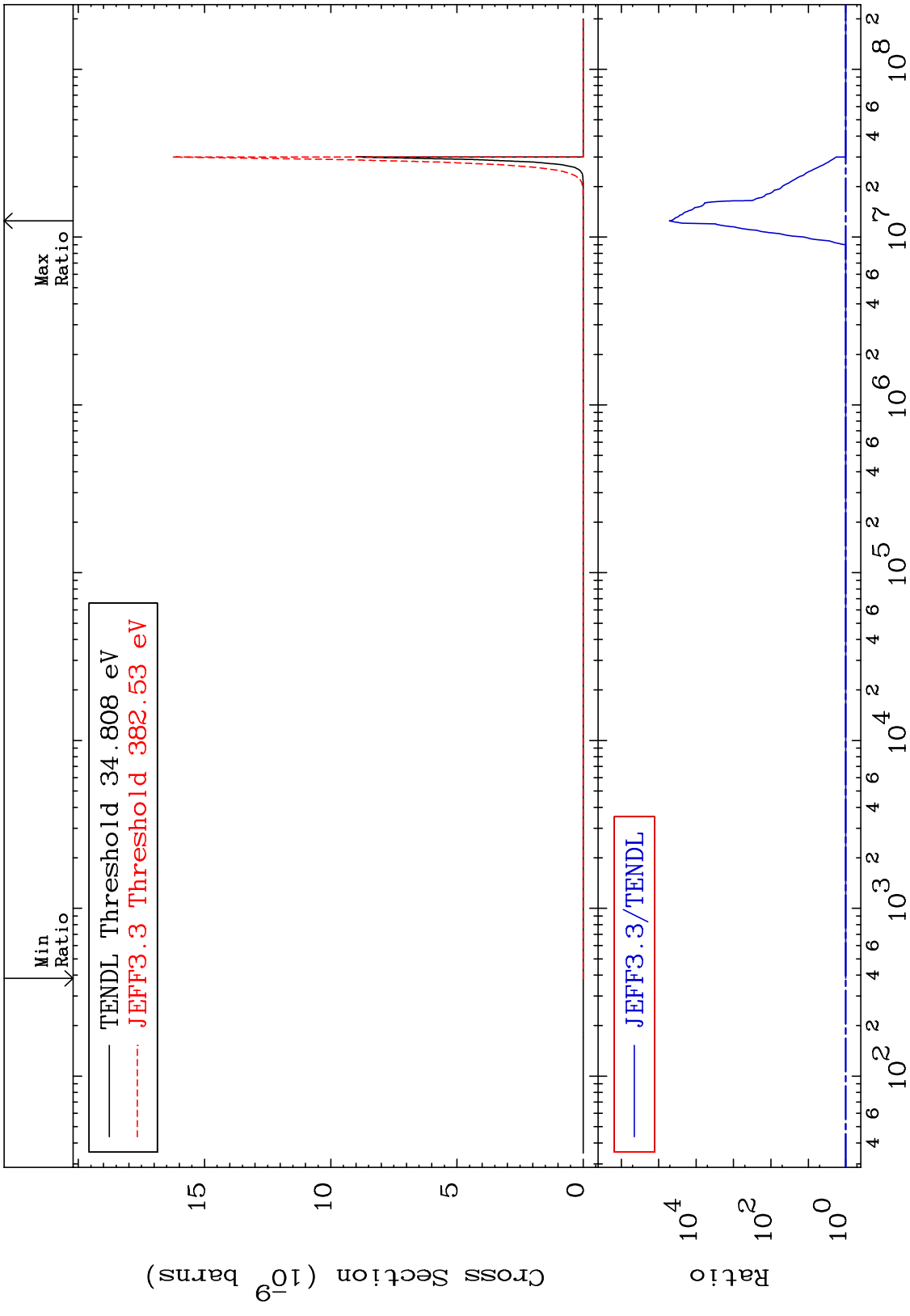


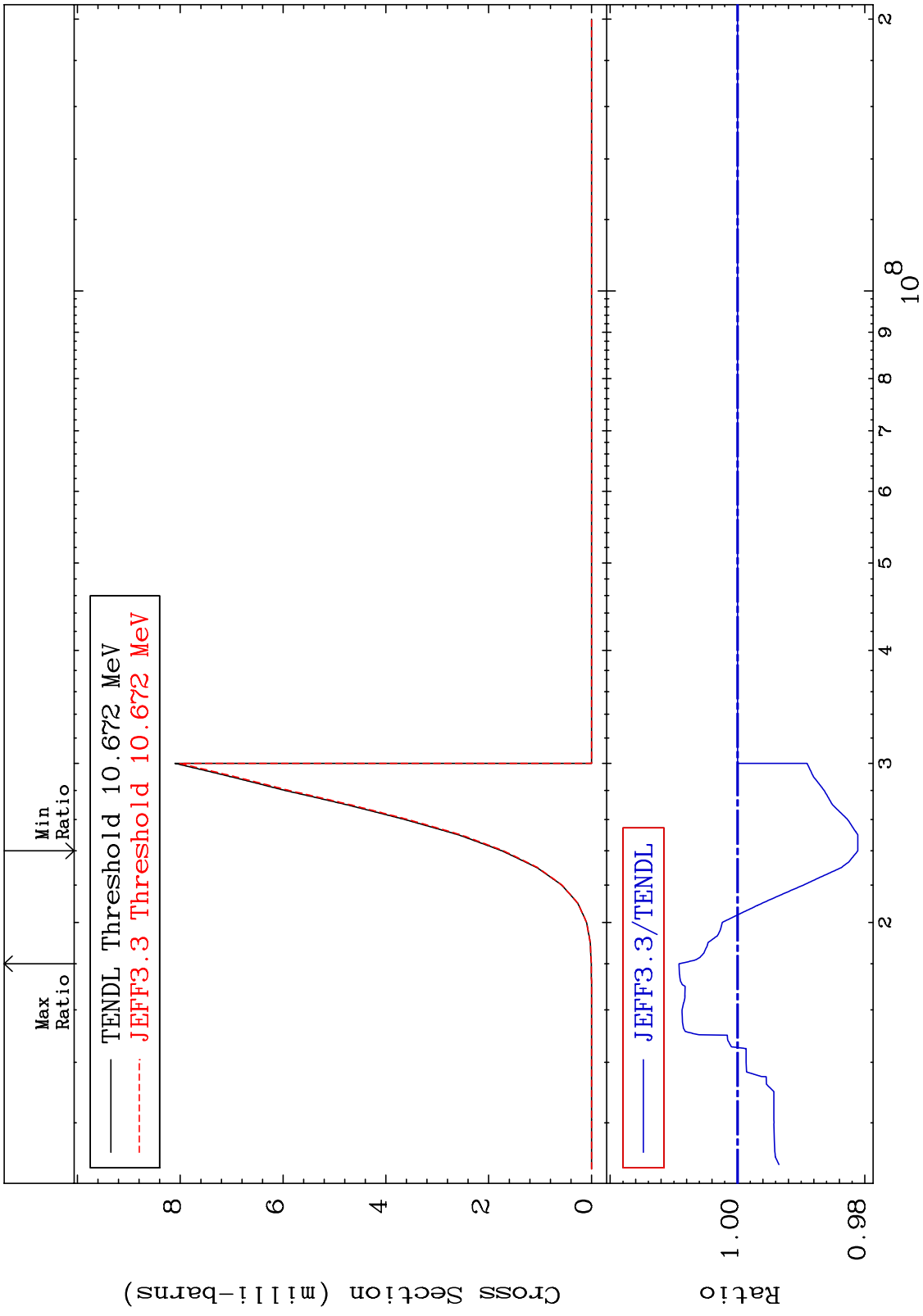
MAT 7322 (n, n') p $^{73}\text{Ta-179}$
Cross Section -1.787 To 0.416 %



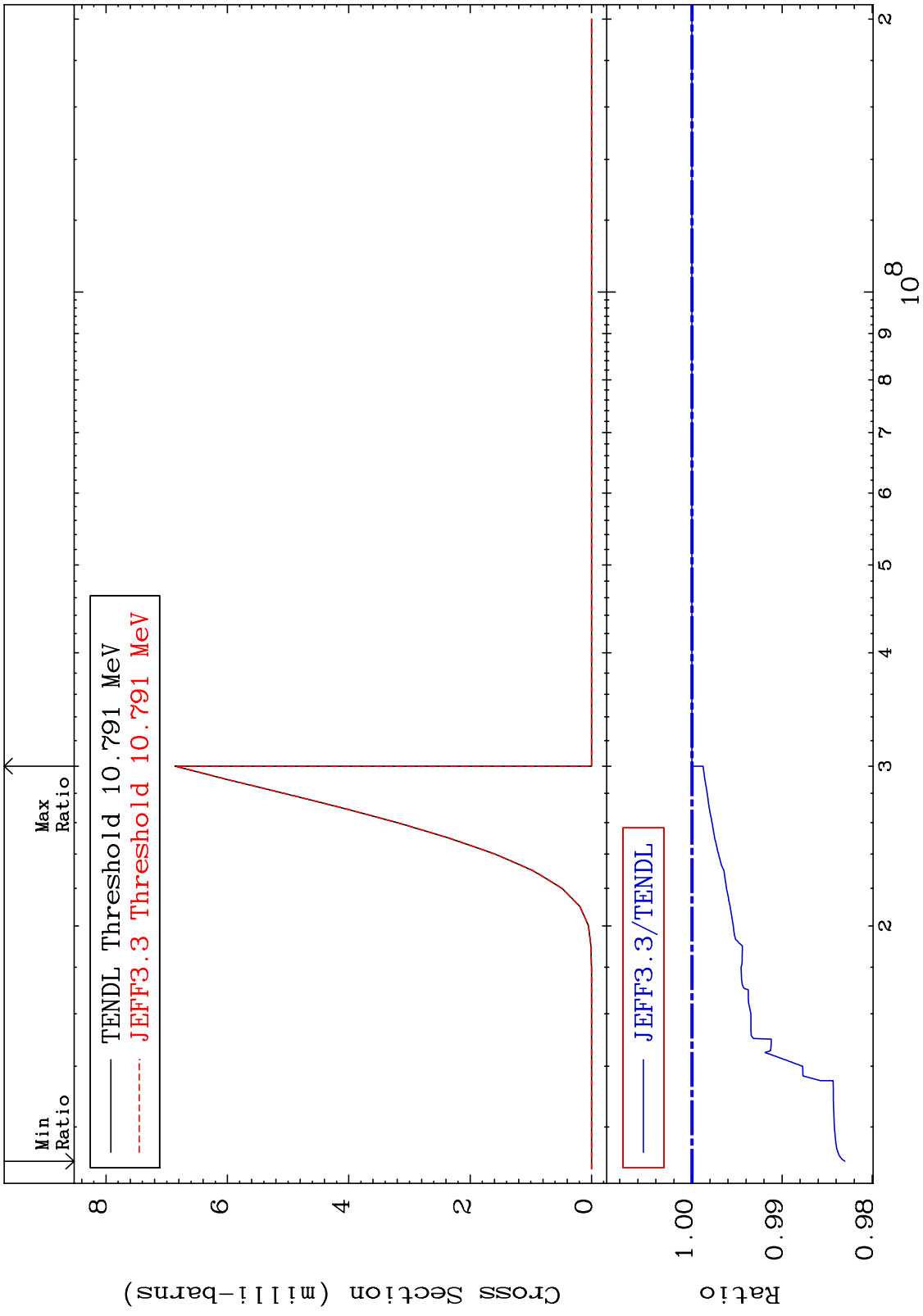
10 Incident Energy (eV) $^{73}\text{Ta-179}$

MAT 7322 (n,n') 2α Cross Section 73-Ta-179 To 9999. %

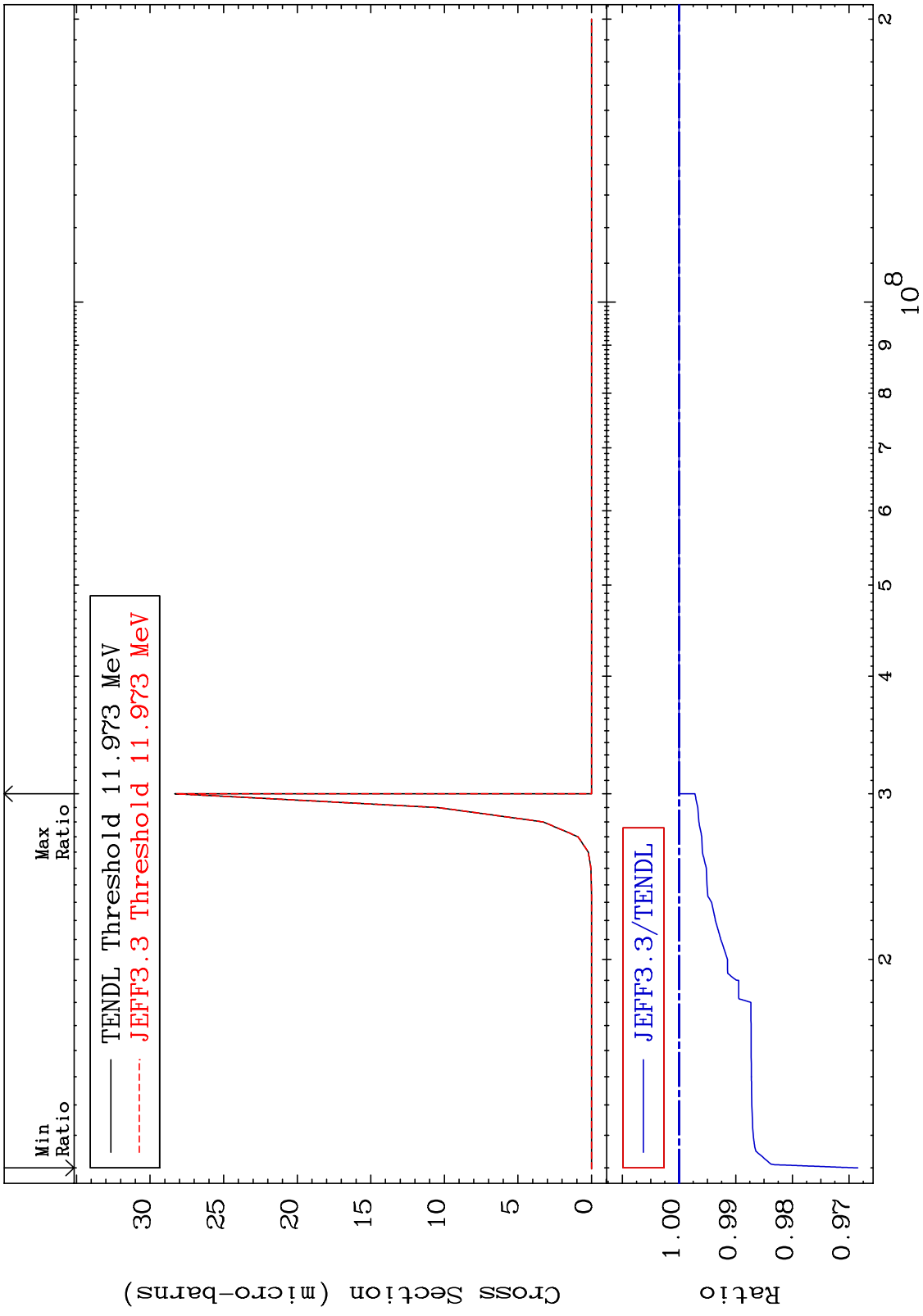


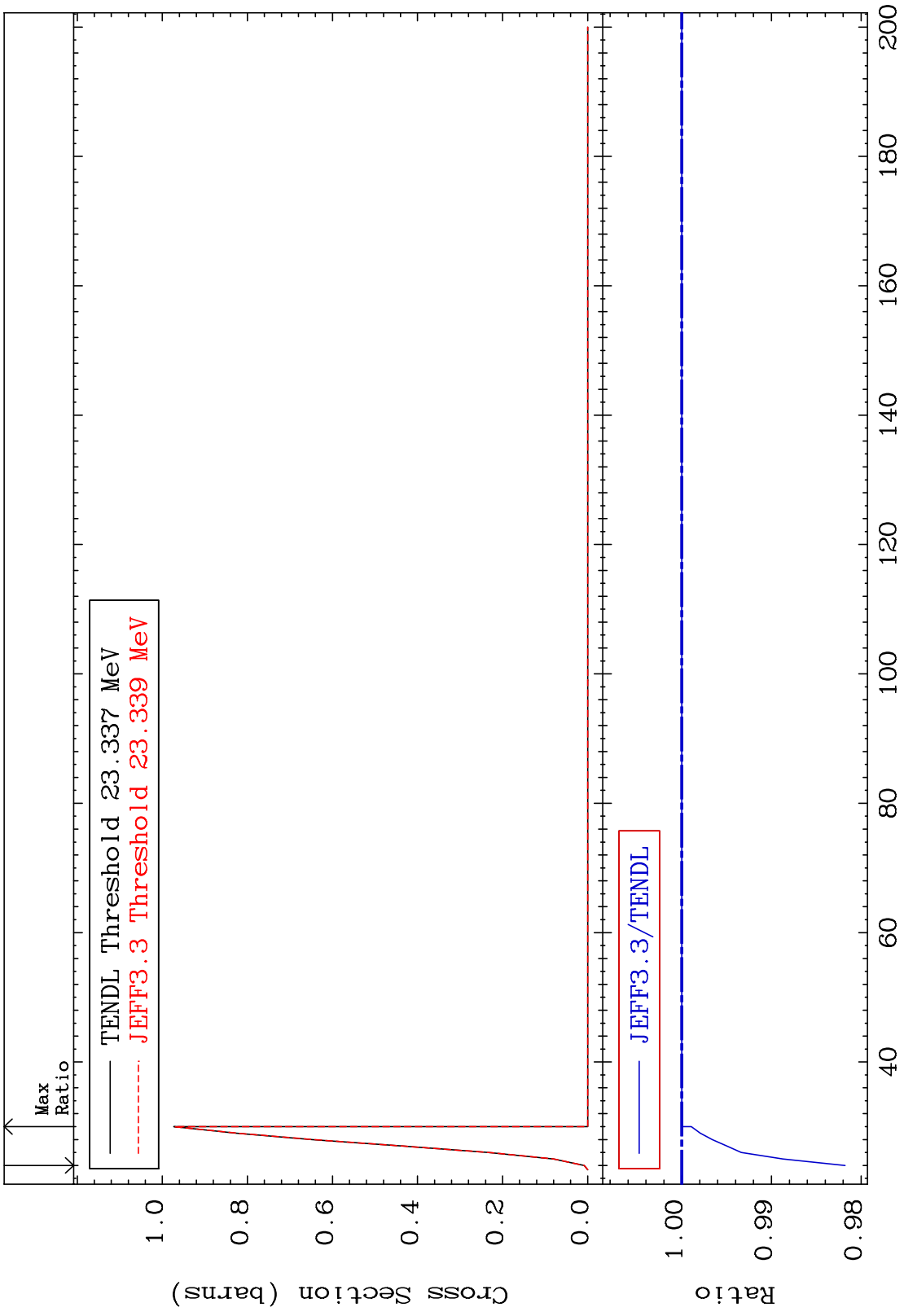


MAT 7322 (n,n') t 73-Ta-179
 Cross Section -1.696 To 0.000 %

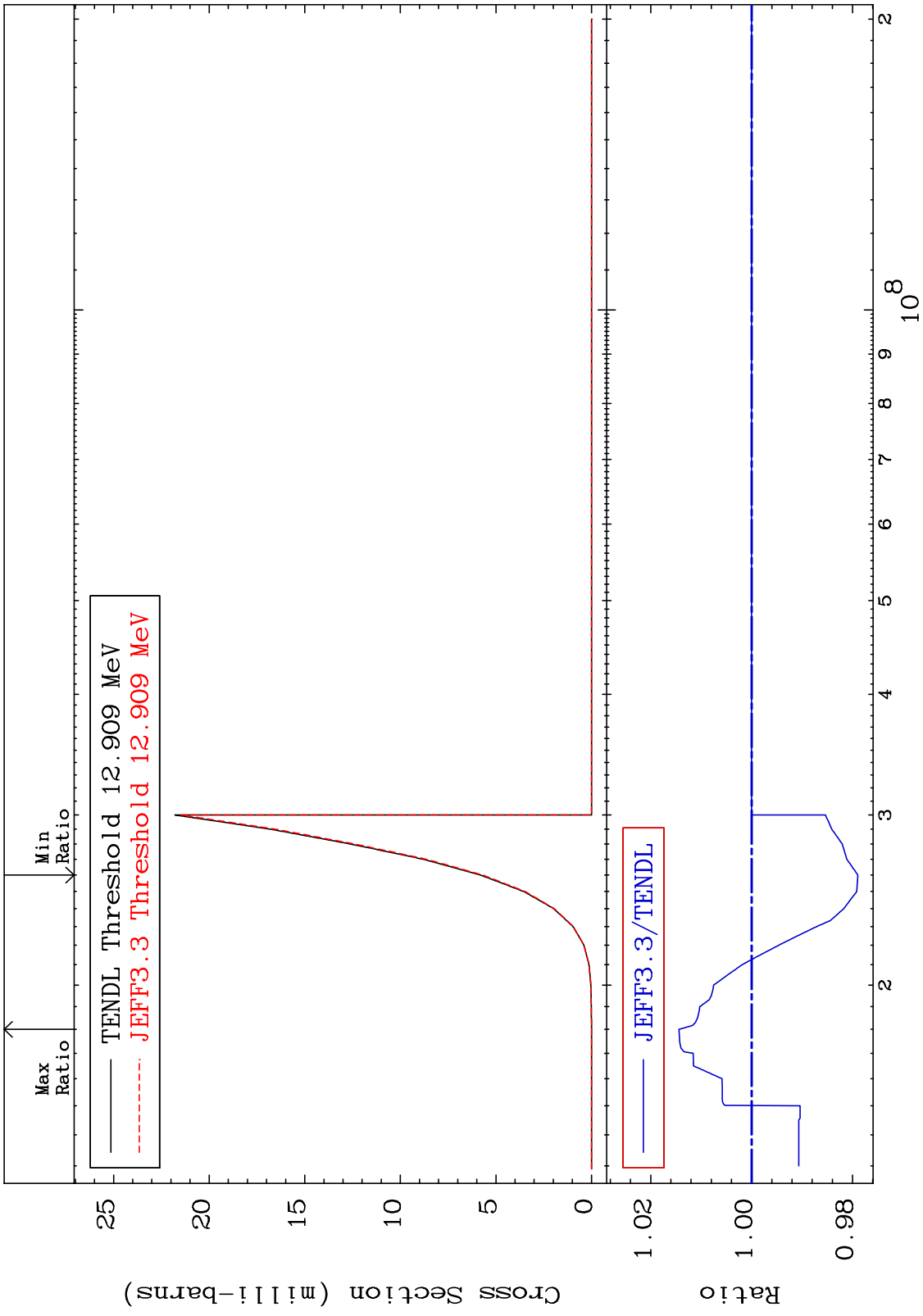


MAT 7322 (n, n') He-3 73-Ta-179
 Cross Section -3.154 To 0.000 %

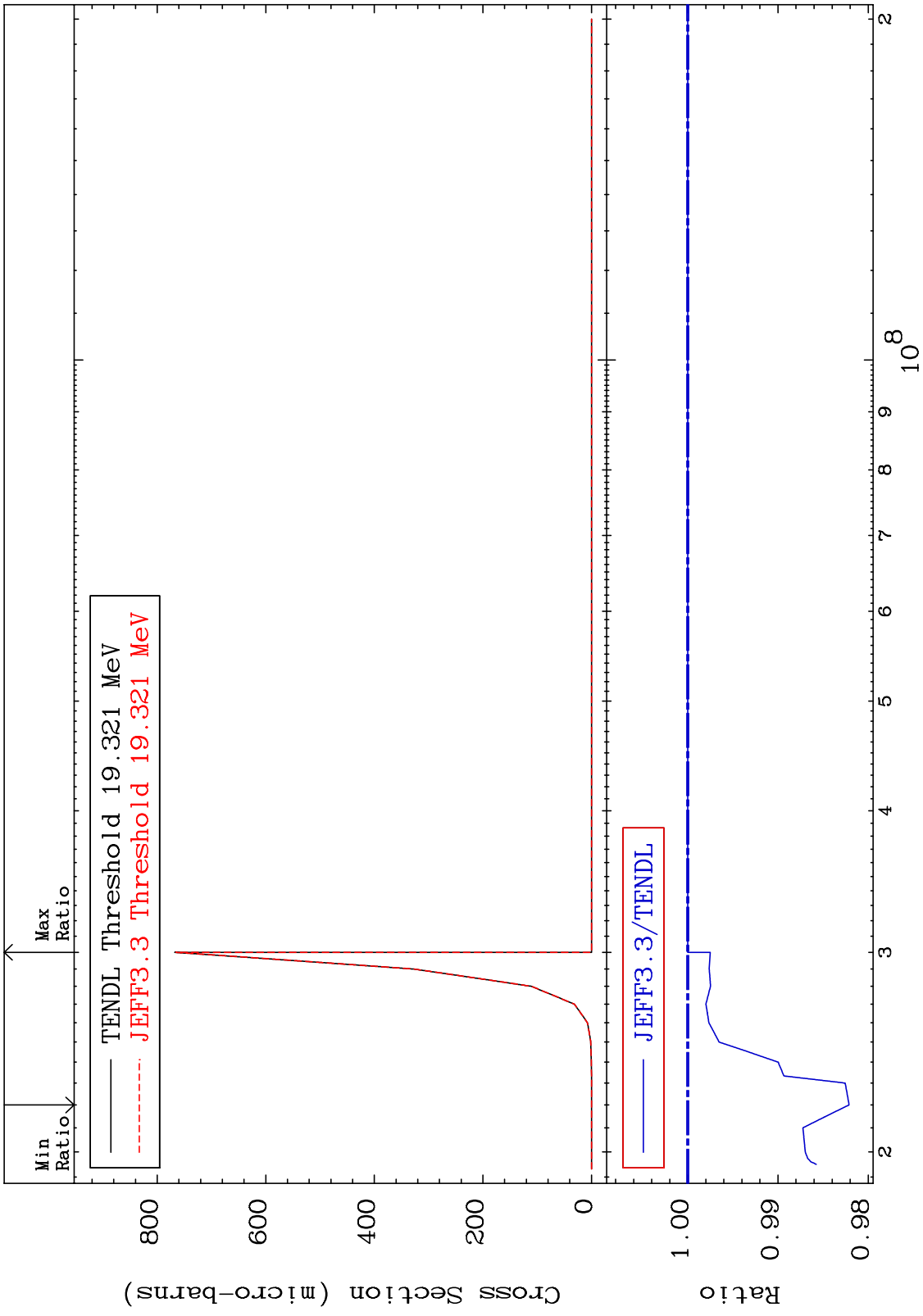




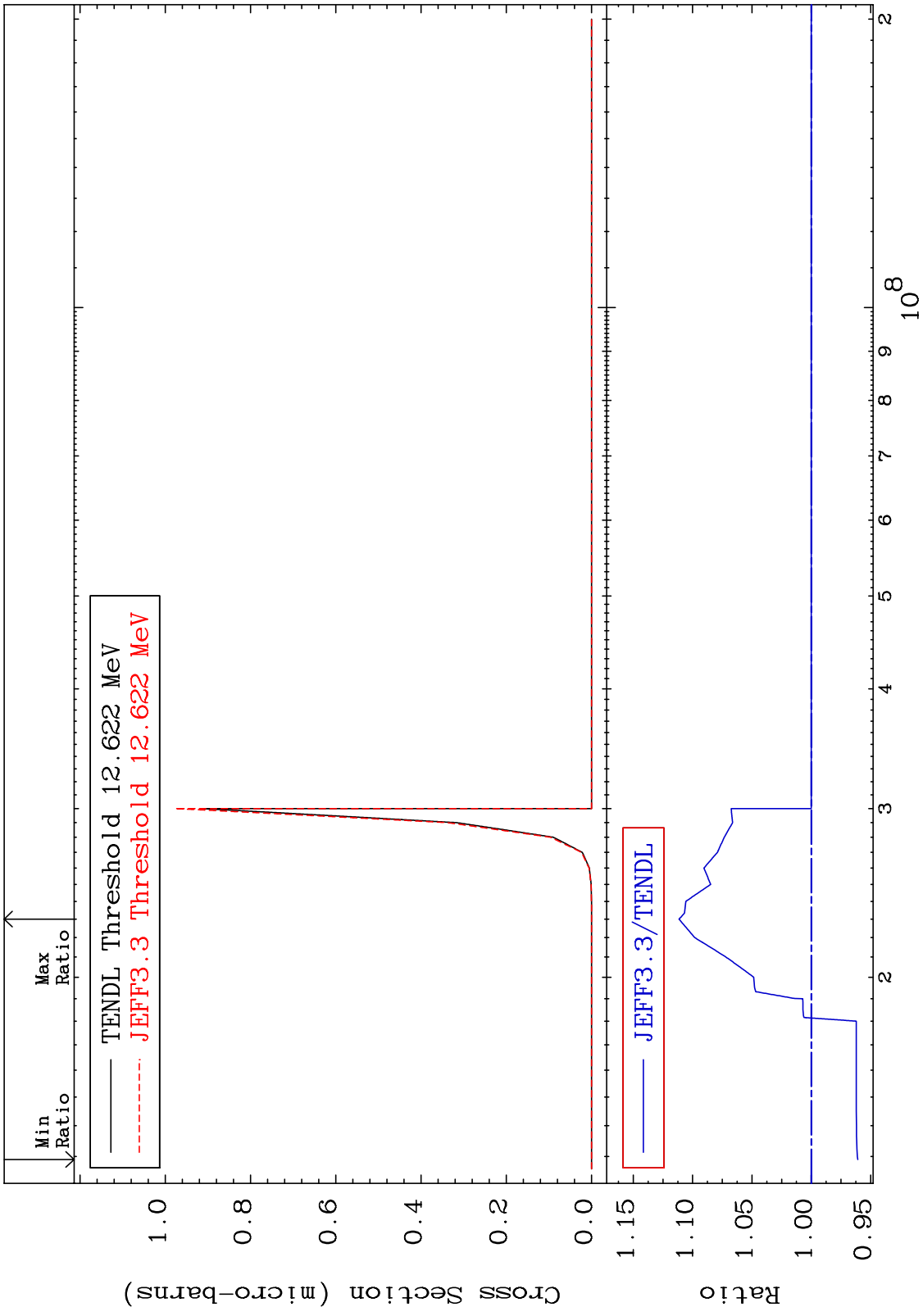
MAT 7322 (n,2n) p 73-Ta-179
 Cross Section -2.105 To 1.438 %



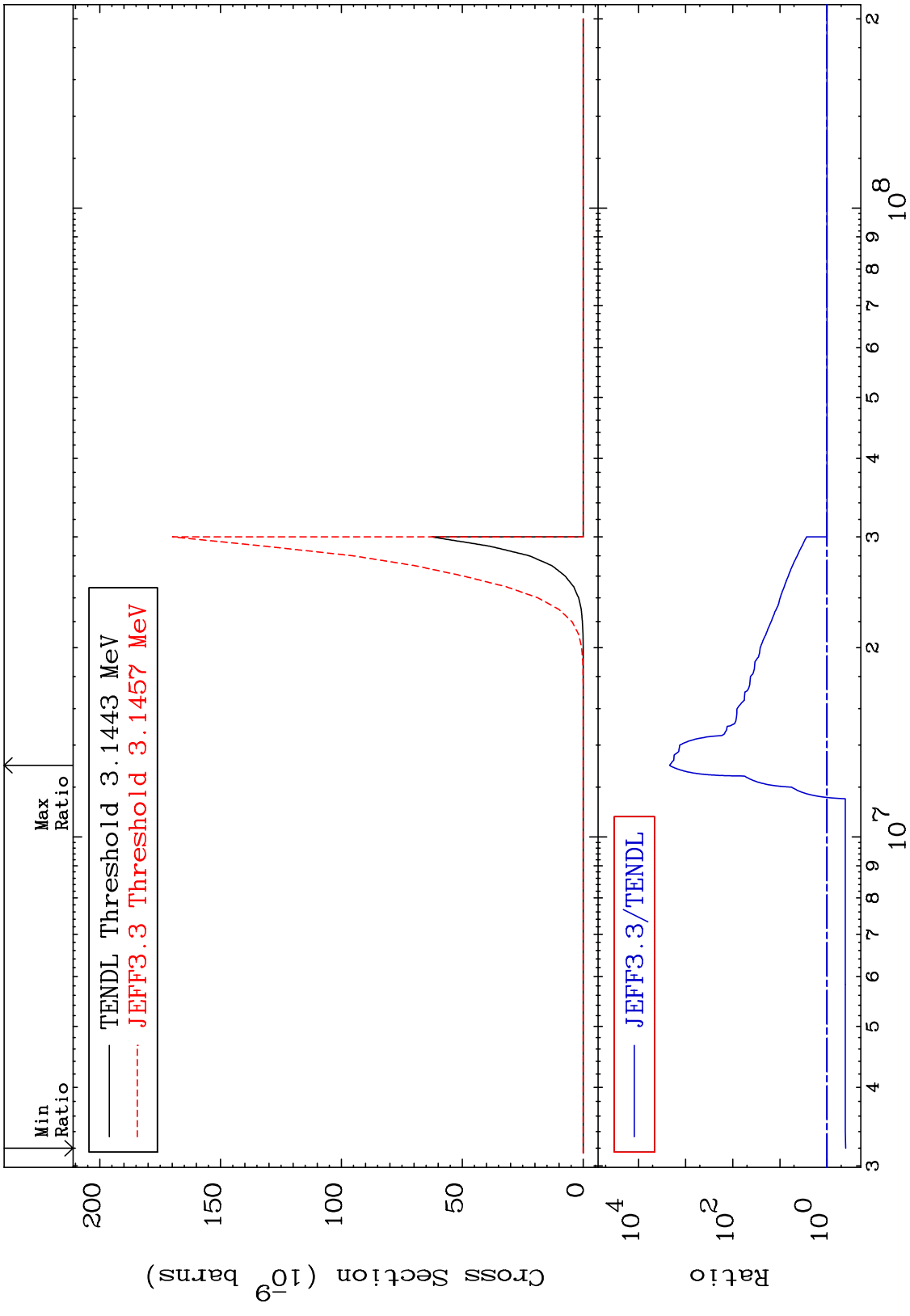
MAT 7322 (n,3n) p 73-Ta-179
 Cross Section -1.788 To 0.000 %



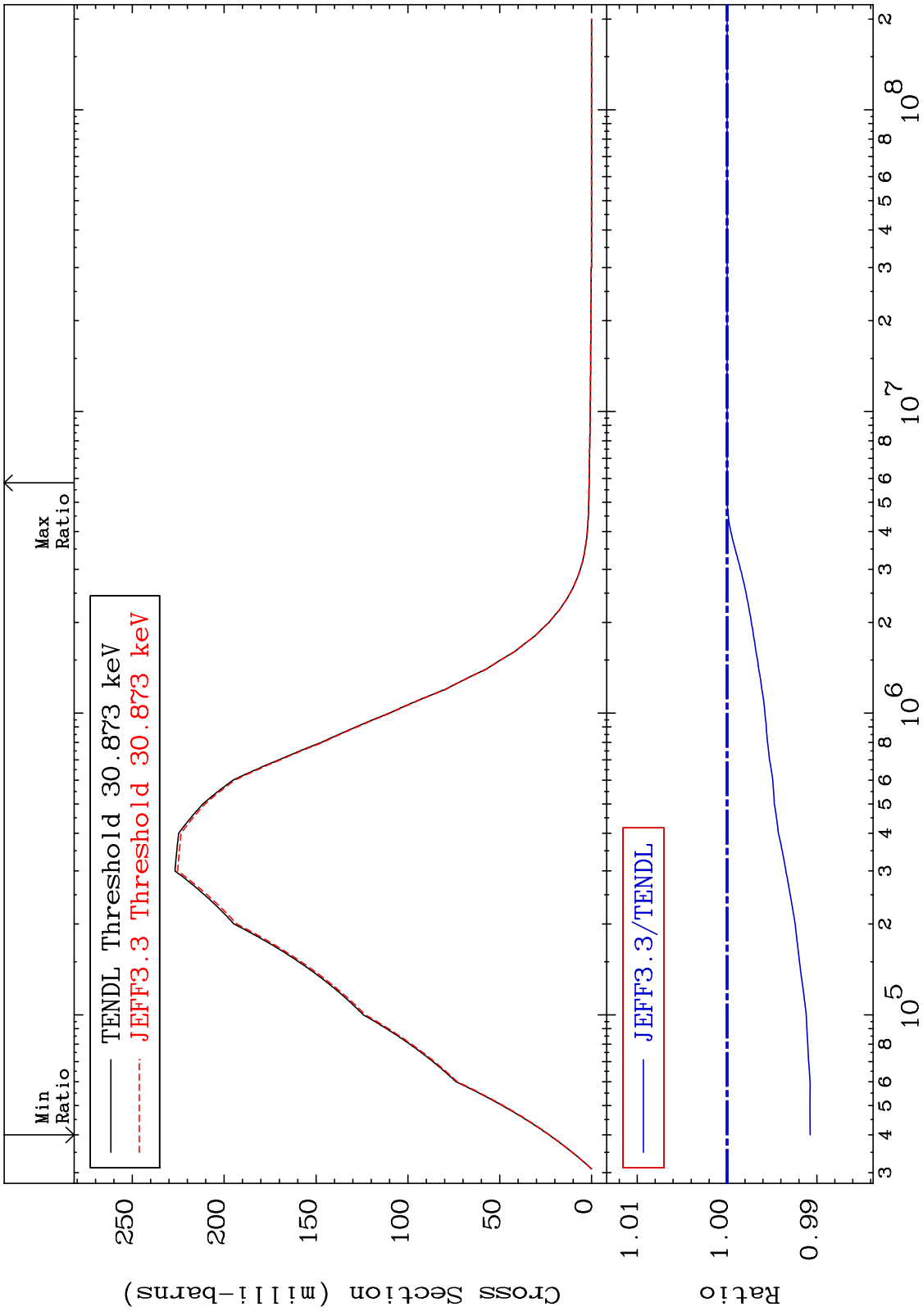
MAT 7322 (n,2n) p 73-Ta-179
 Cross Section -3.926 To 11.15 %



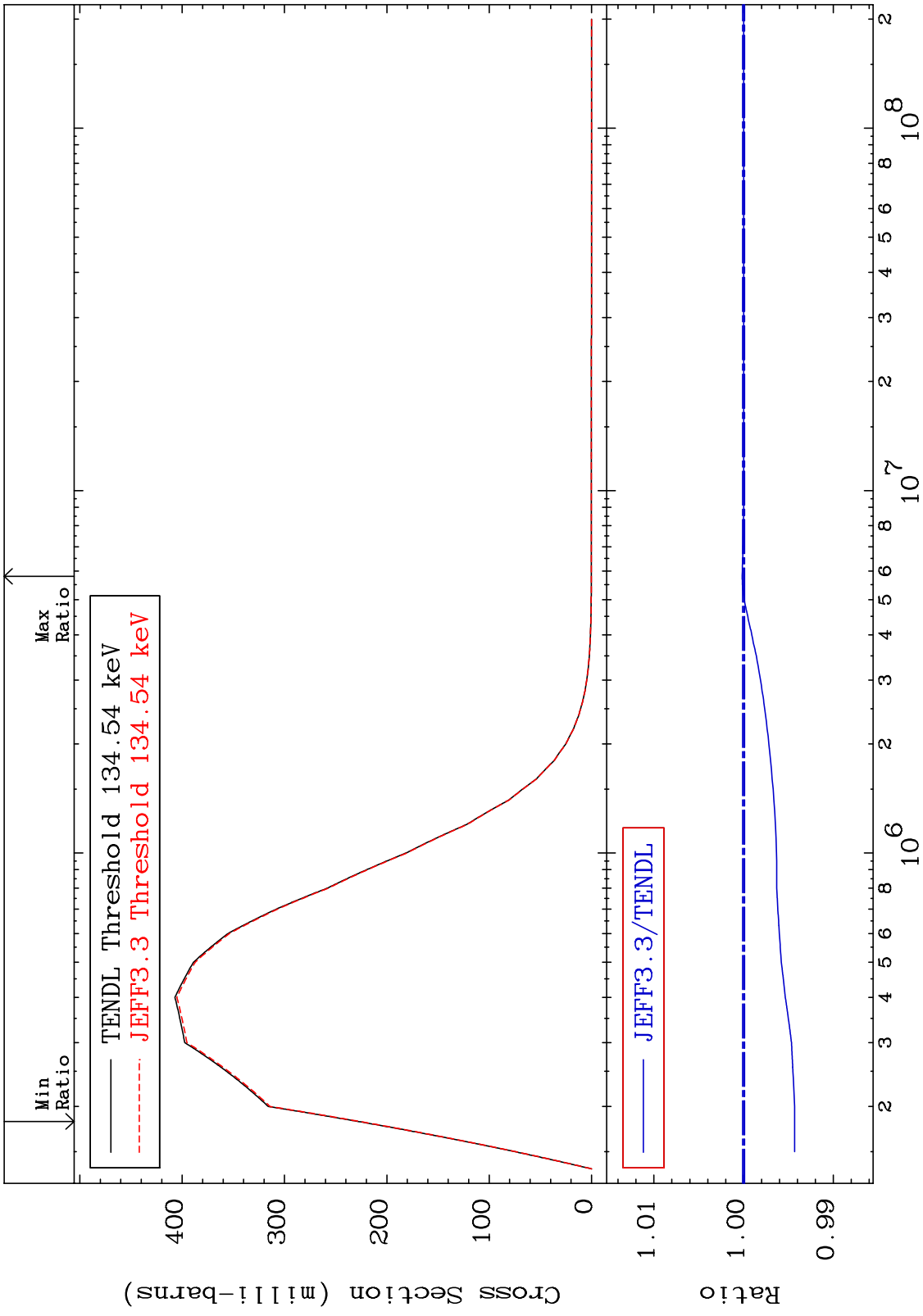
MAT 7322 (n,n') p α 73-Ta-179
 Cross Section -59.99 To 9999. %



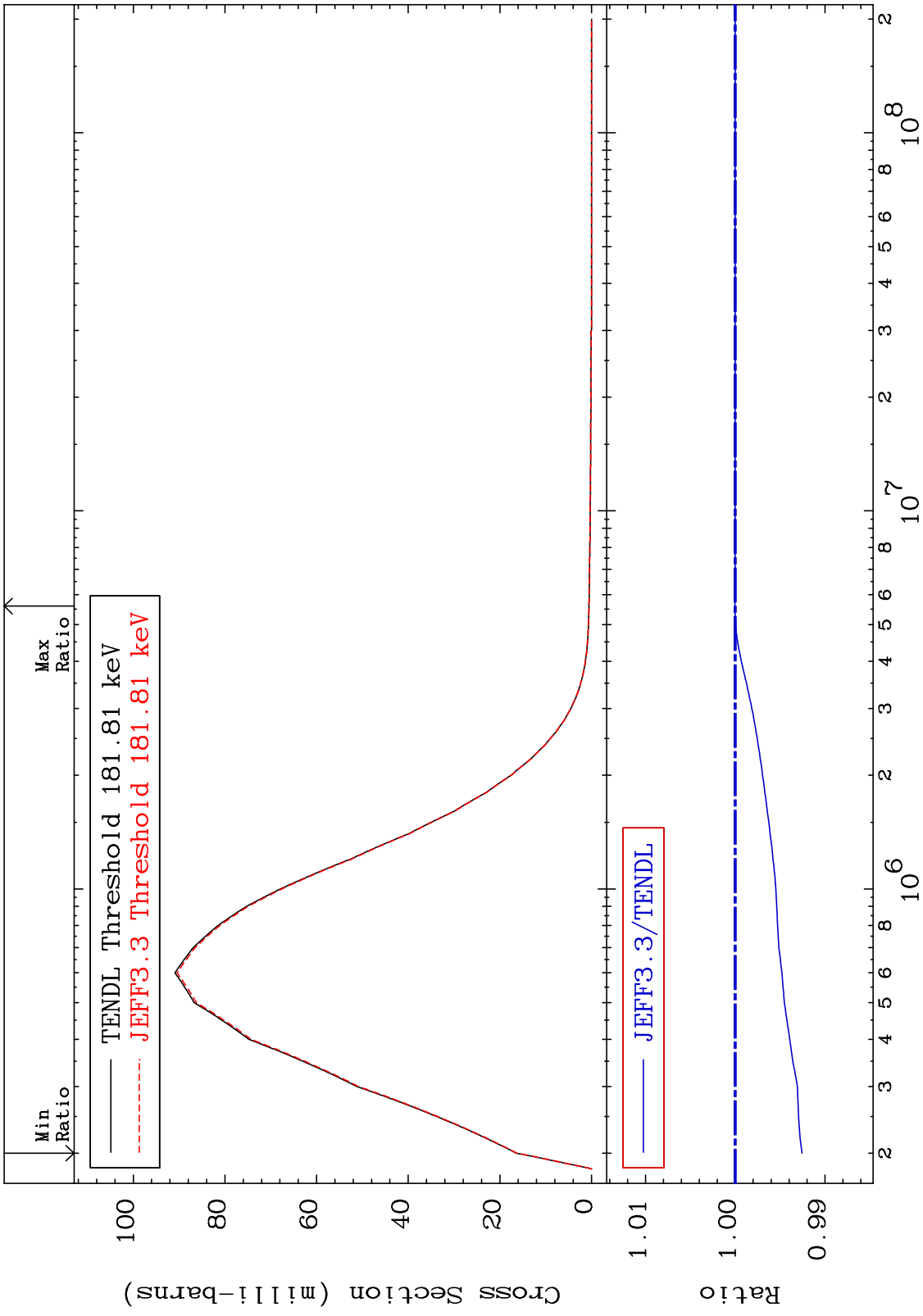
MAT 7322 MT= 51 (n,n') Level Cross Section 73-Ta-179 -0.924 To 0.002 %



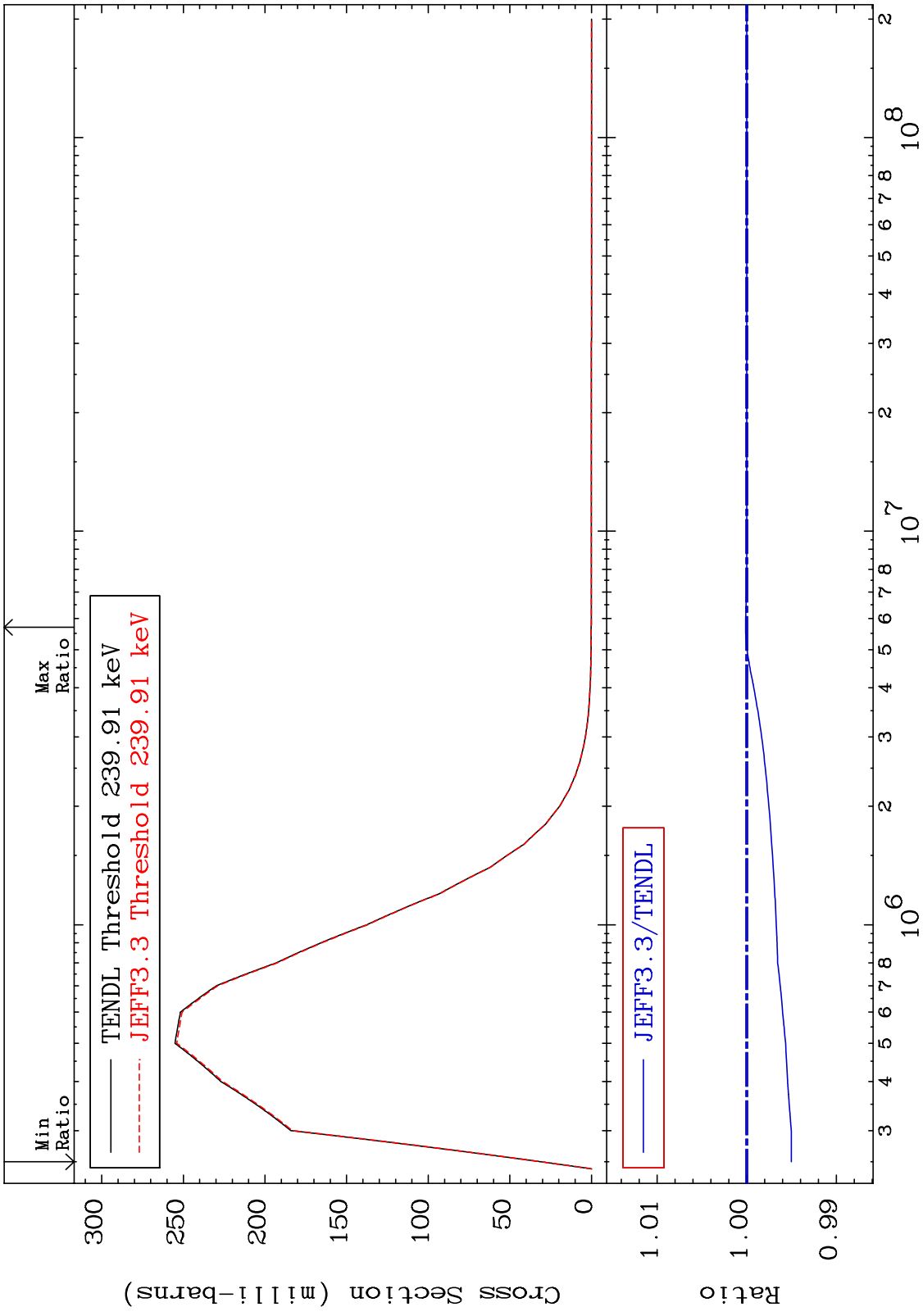
MAT 7322 MT= 52 (n,n') Level Cross Section 73-Ta-179
 -0.570 To 0.015 %



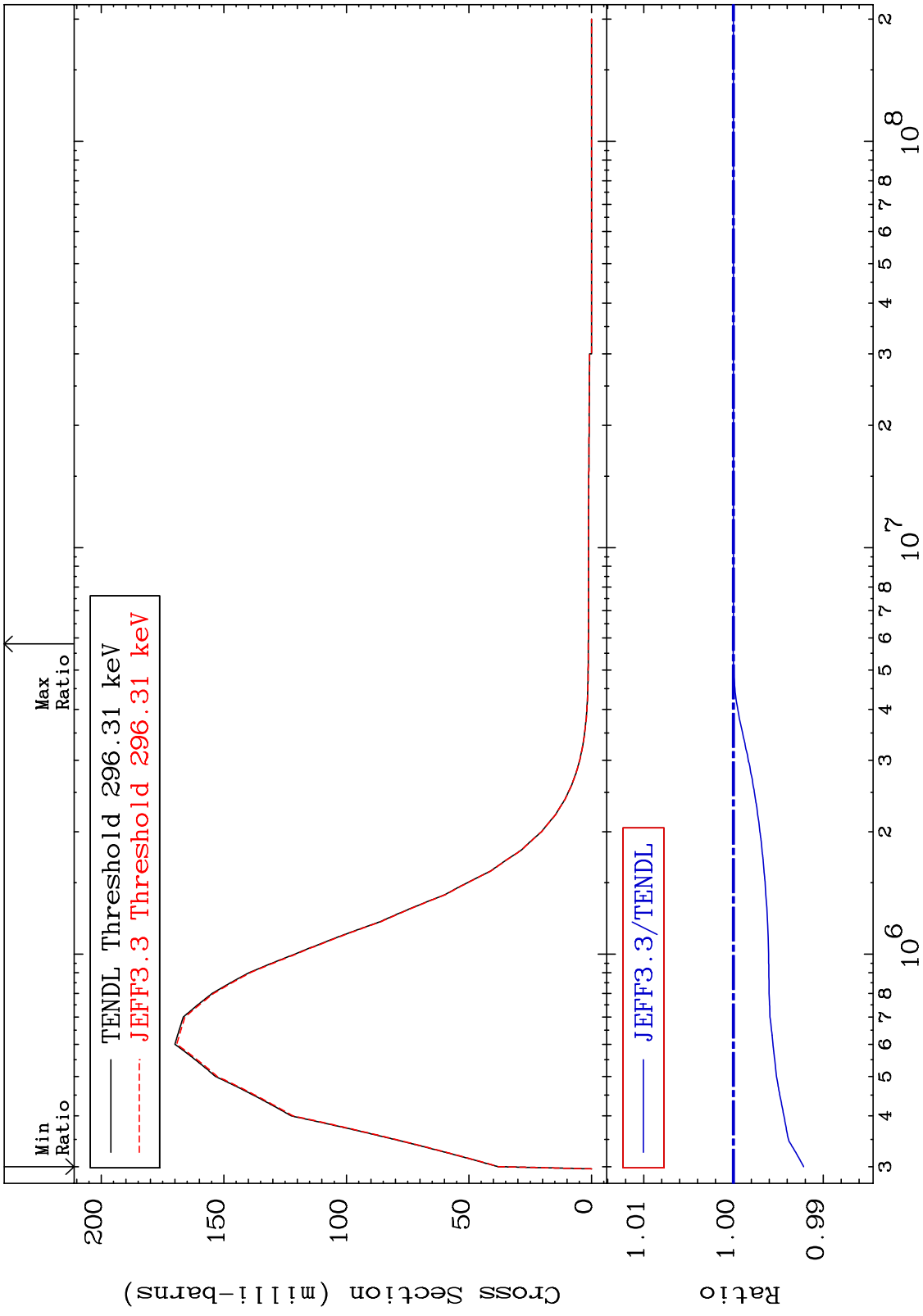
MAT 7322 MT= 53 (n,n') Level Cross Section -0.744 To 0.004 % 73-Ta-179



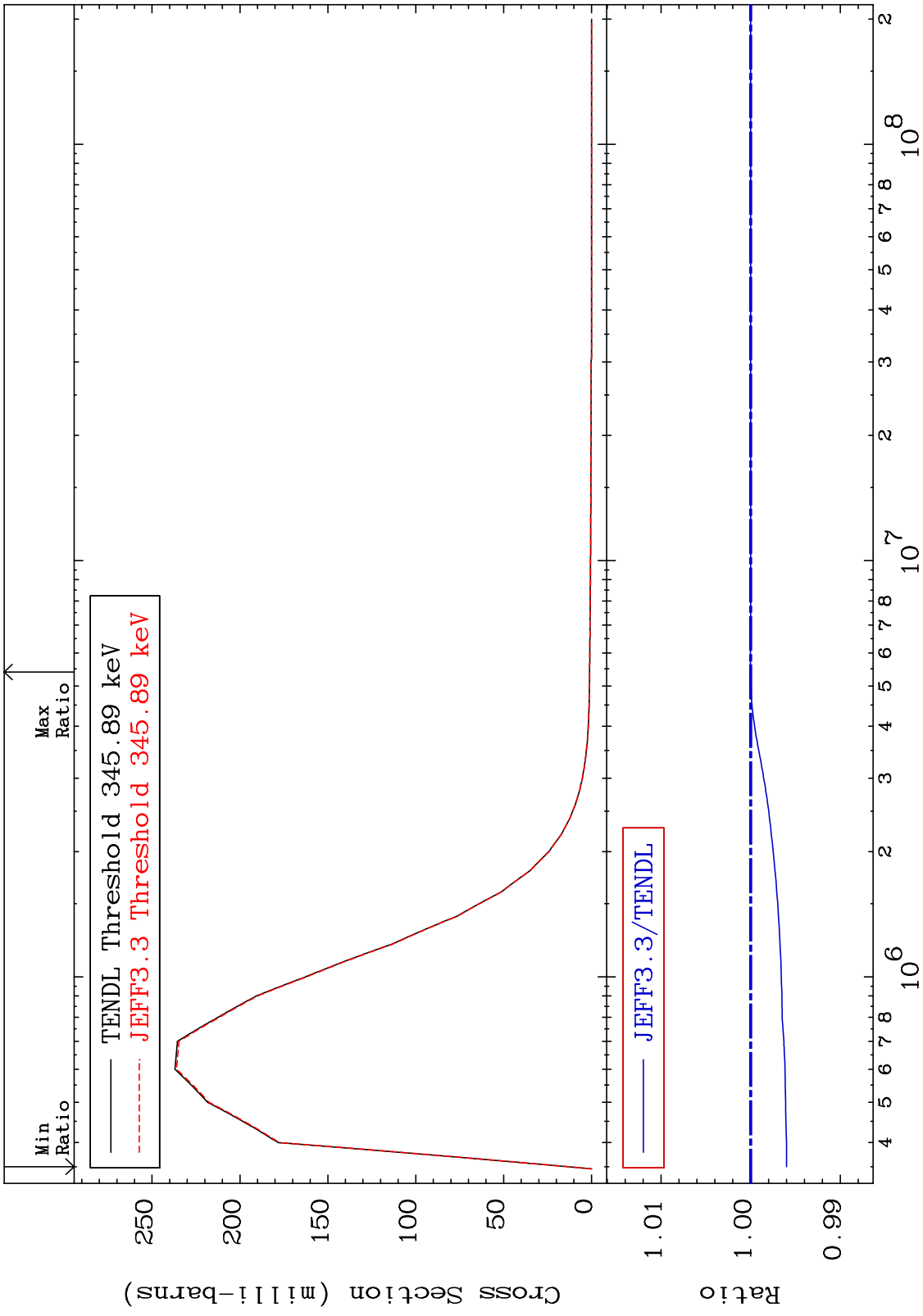
MAT 7322 MT= 54 (n,n') Level Cross Section -0.496 To 0.012 % 73-Ta-179



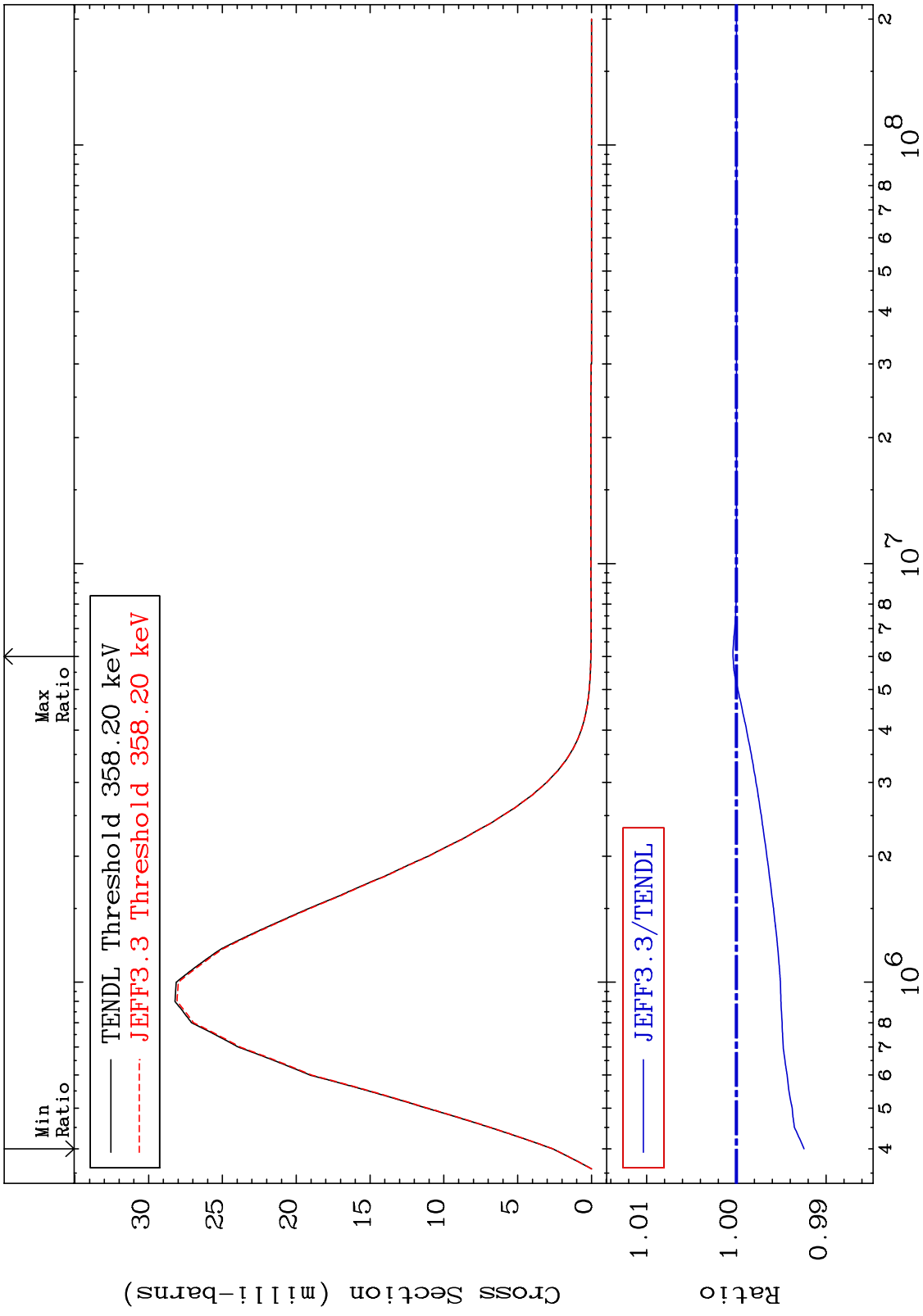
MAT 7322 MT= 55 (n,n') Level Cross Section -0.783 To 0.002 % 73-Ta-179



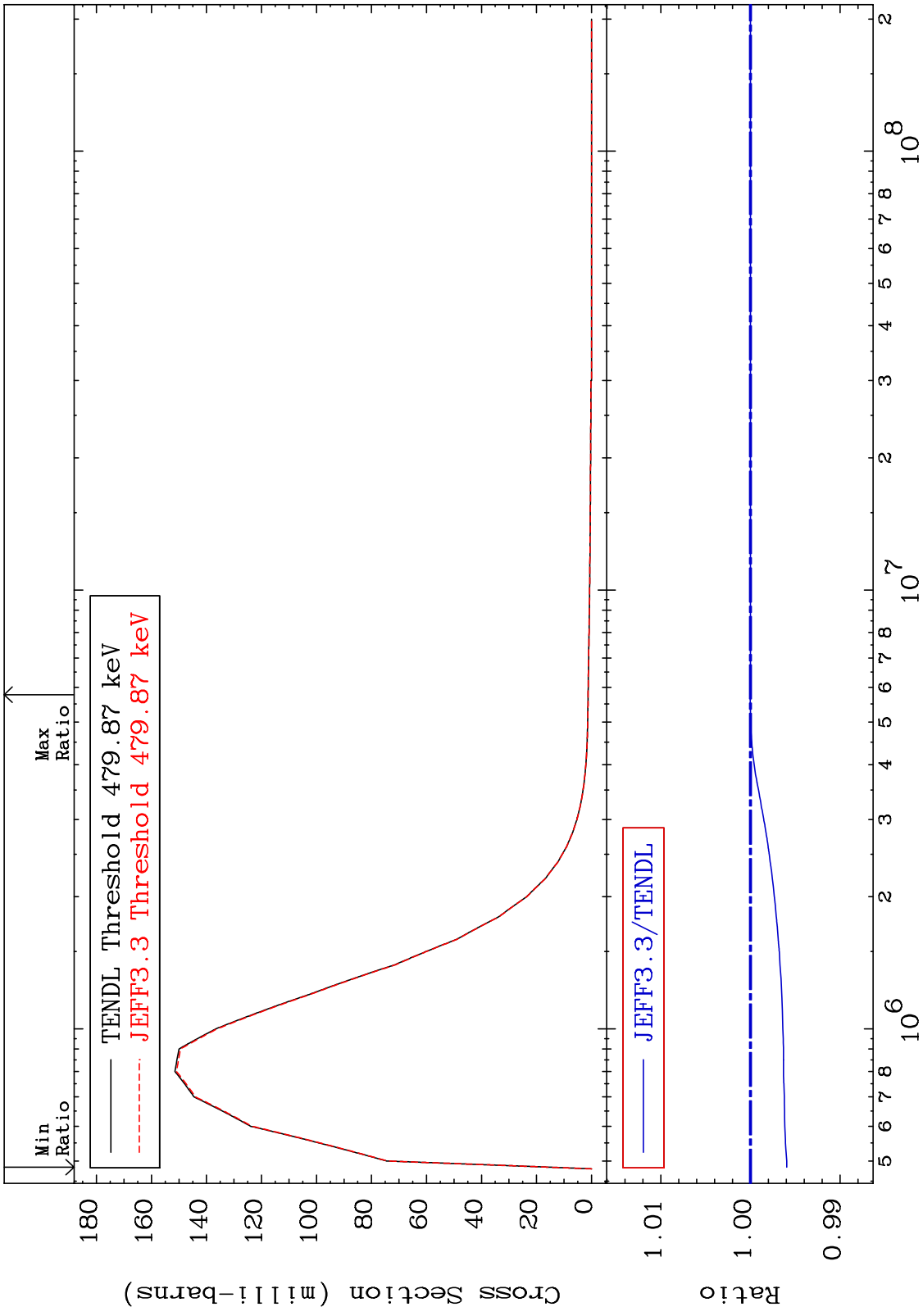
MAT 7322 MT= 56 (n,n') Level Cross Section -0.400 To 0.003 % 73-Ta-179



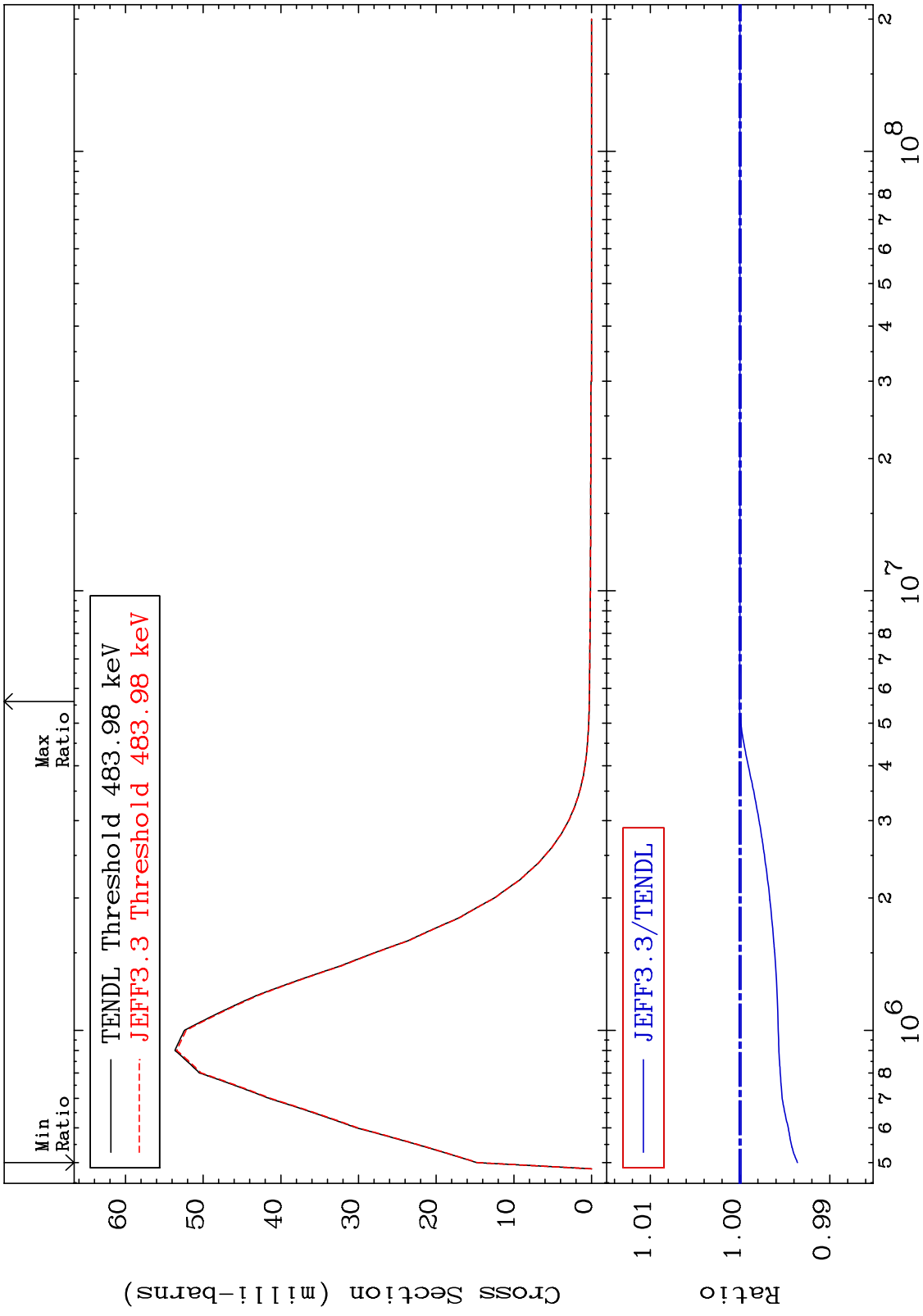
MAT 7322 MT= 57 (n,n') Level Cross Section 73-Ta-179 -0.753 To 0.038 %



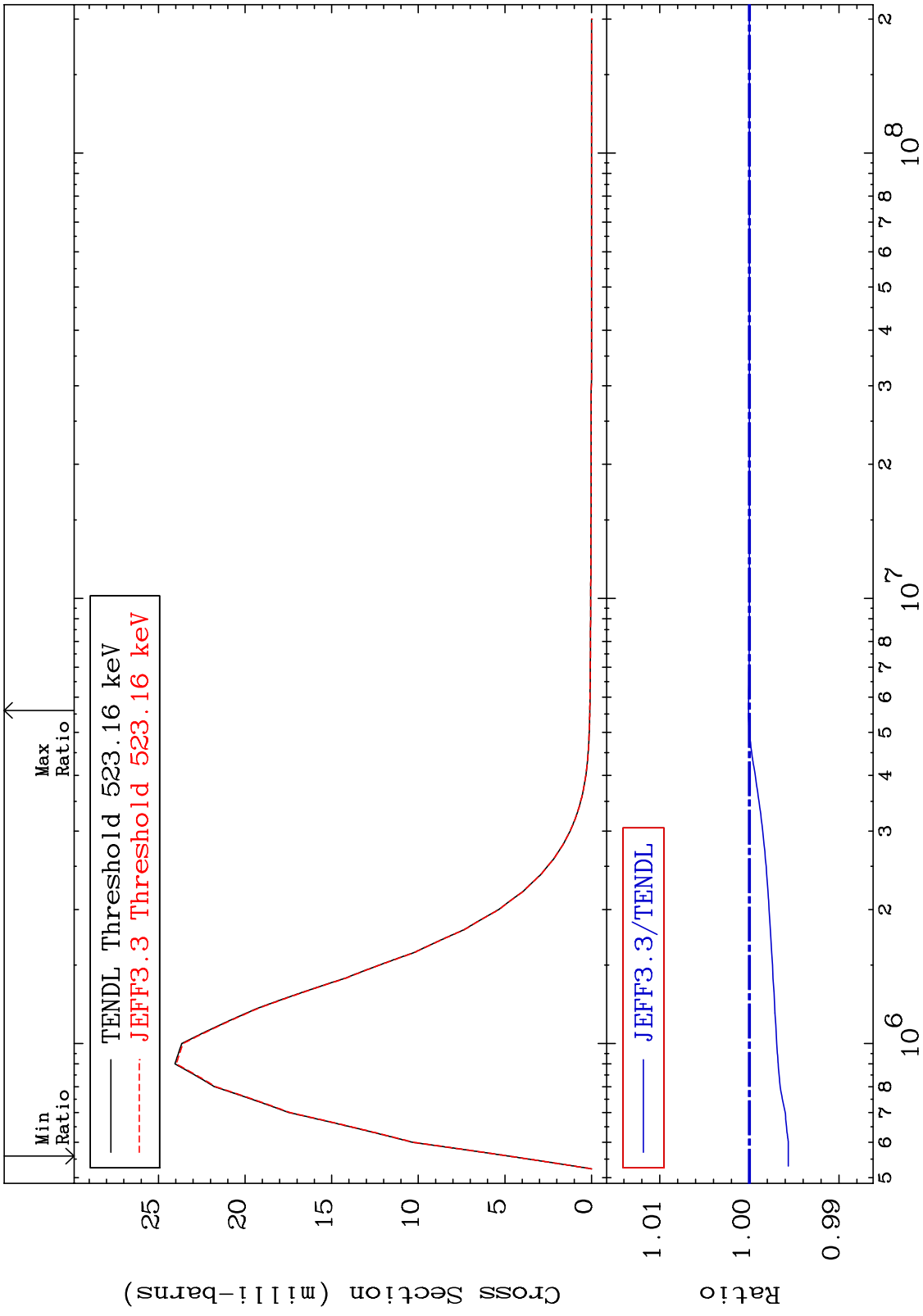
MAT 7322 MT= 58 (n,n') Level Cross Section 73-Ta-179
 -0.404 To 0.002 %



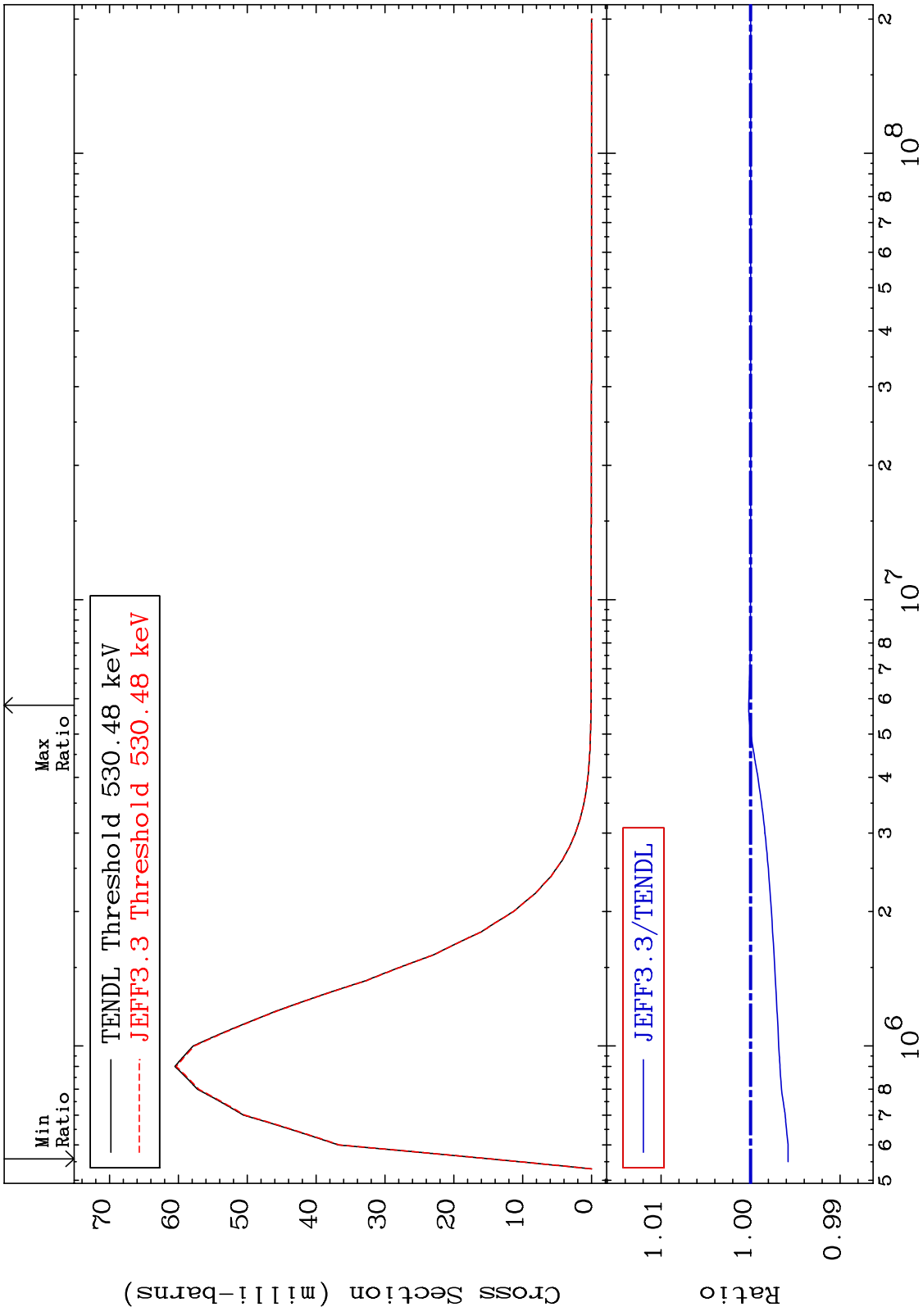
MAT 7322 MT= 59 (n,n') Level Cross Section 73-Ta-179
 -0.640 To 0.007 %



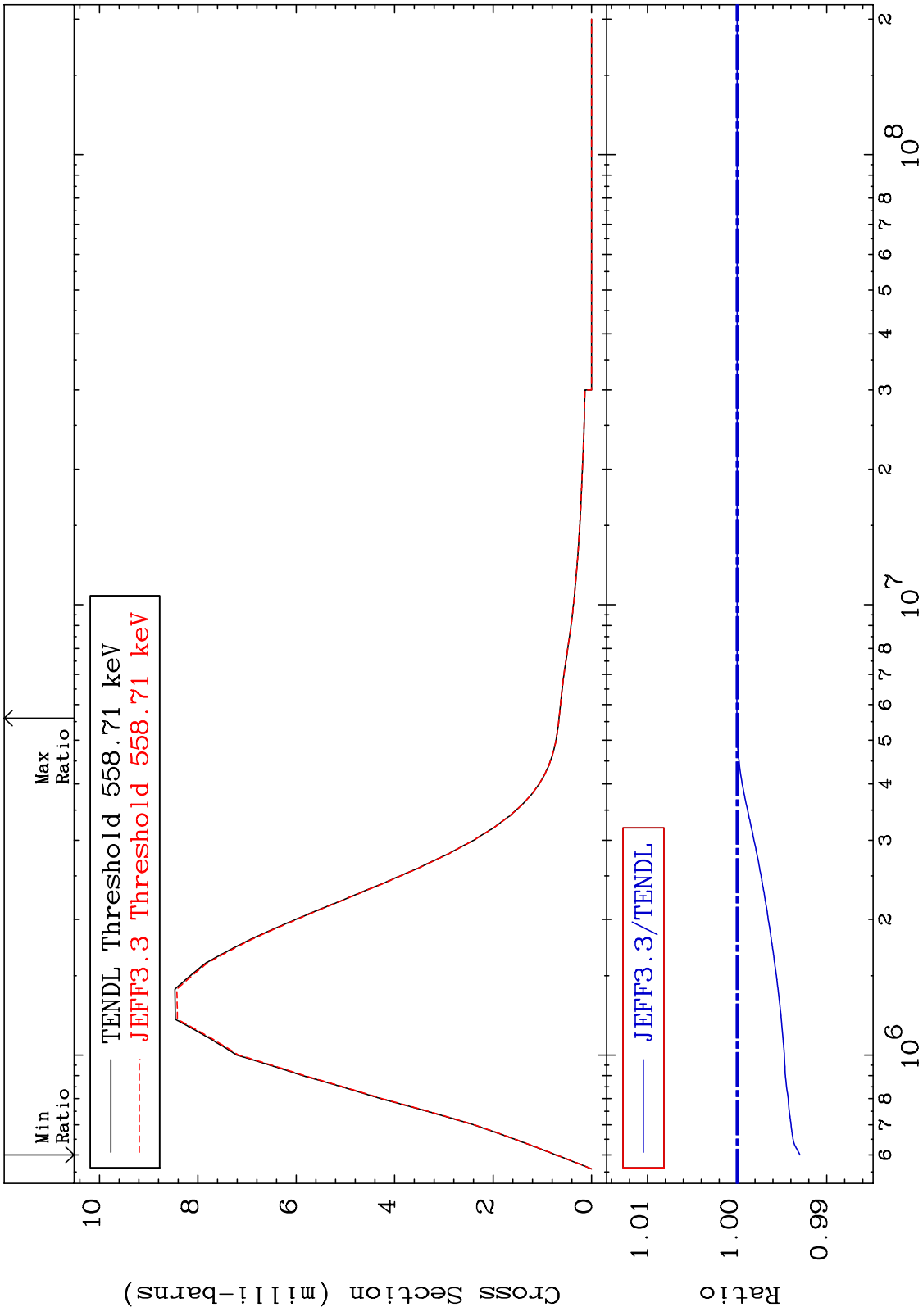
MAT 7322 MT= 60 (n,n') Level Cross Section 73-Ta-179
 -0.436 To 0.009 %



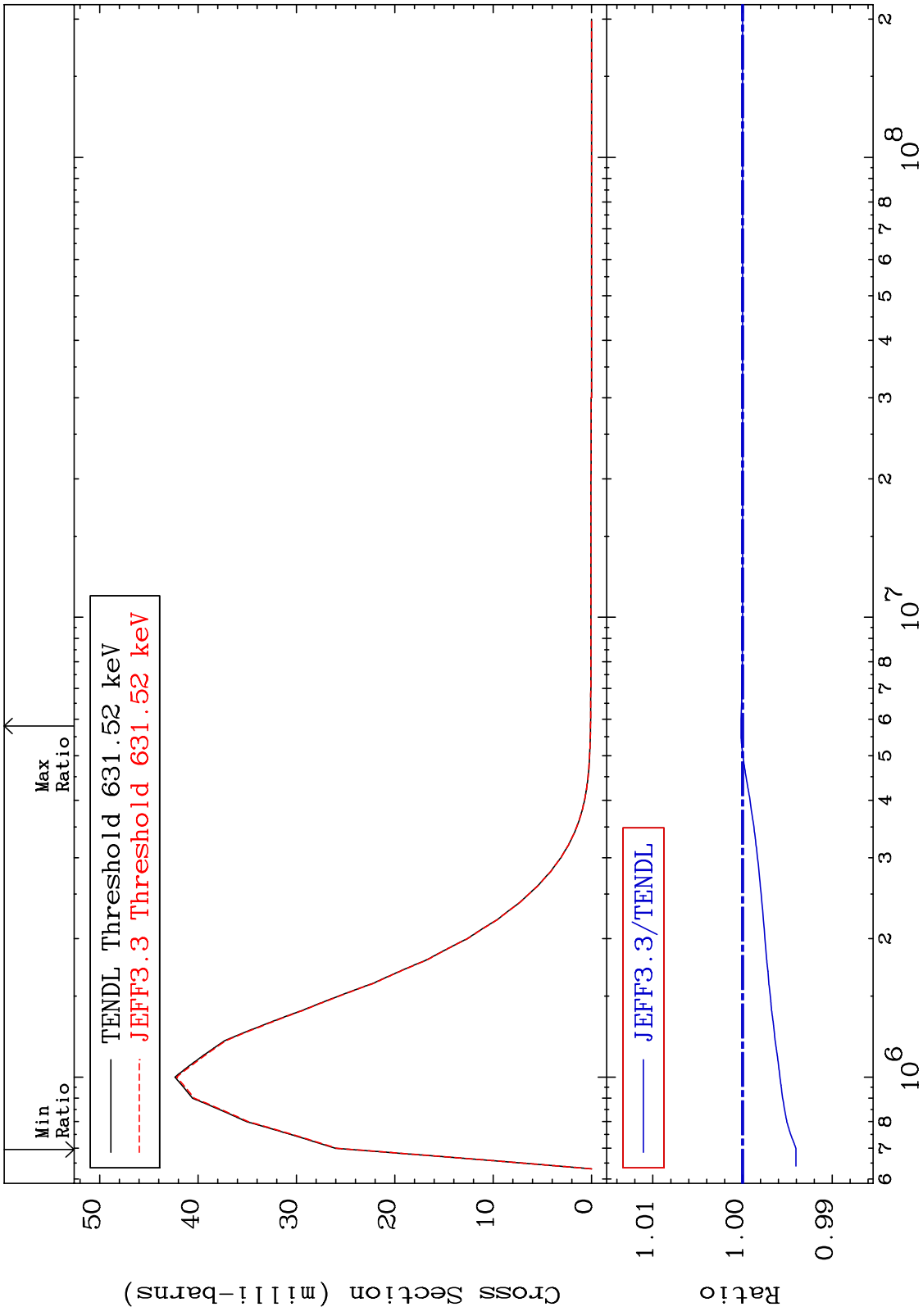
MAT 7322 MT= 61 (n,n') Level Cross Section 73-Ta-179
 -0.419 To 0.020 %



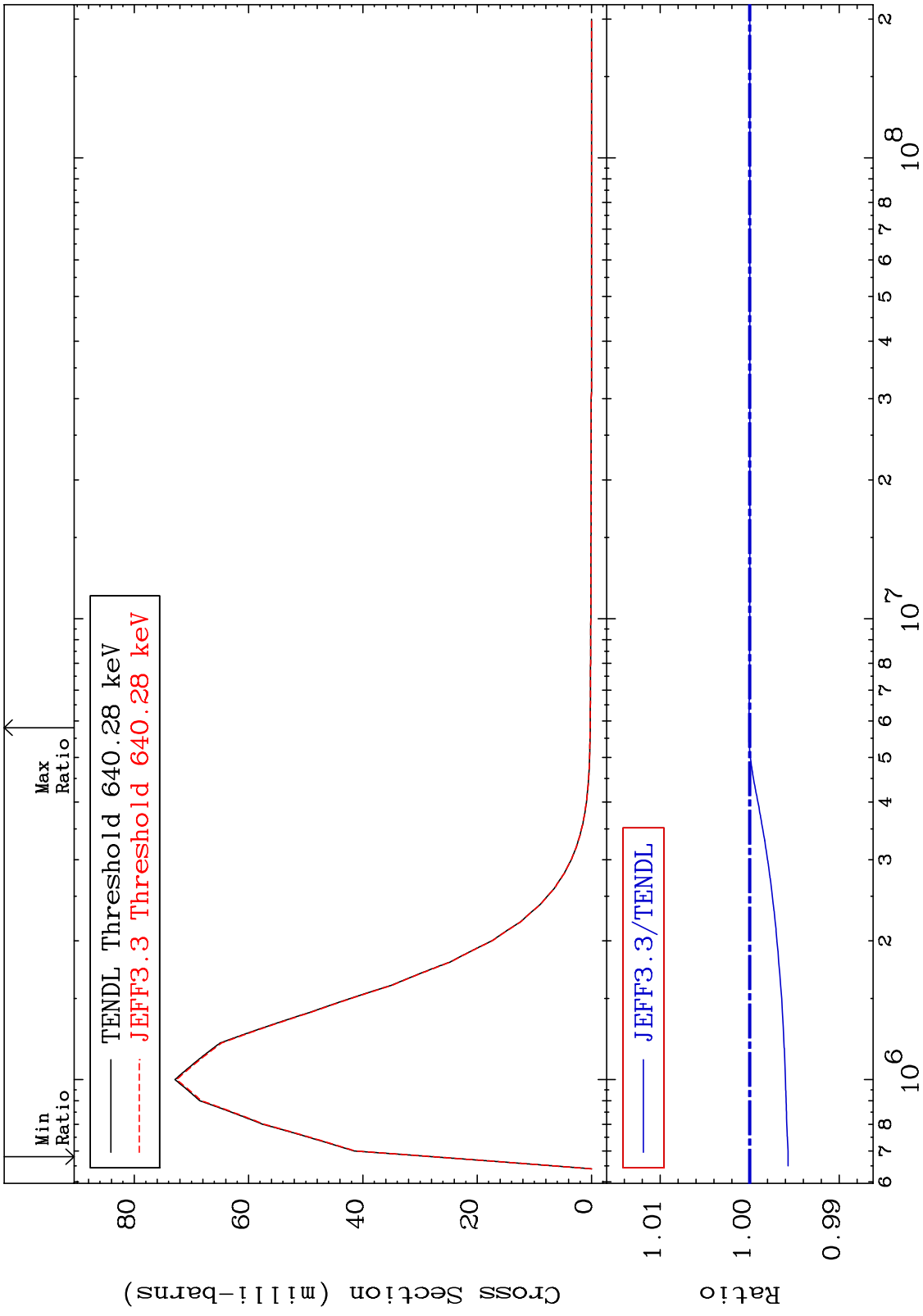
MAT 7322 MT= 62 (n,n') Level Cross Section 73-Ta-179 -0.700 To 0.002 %



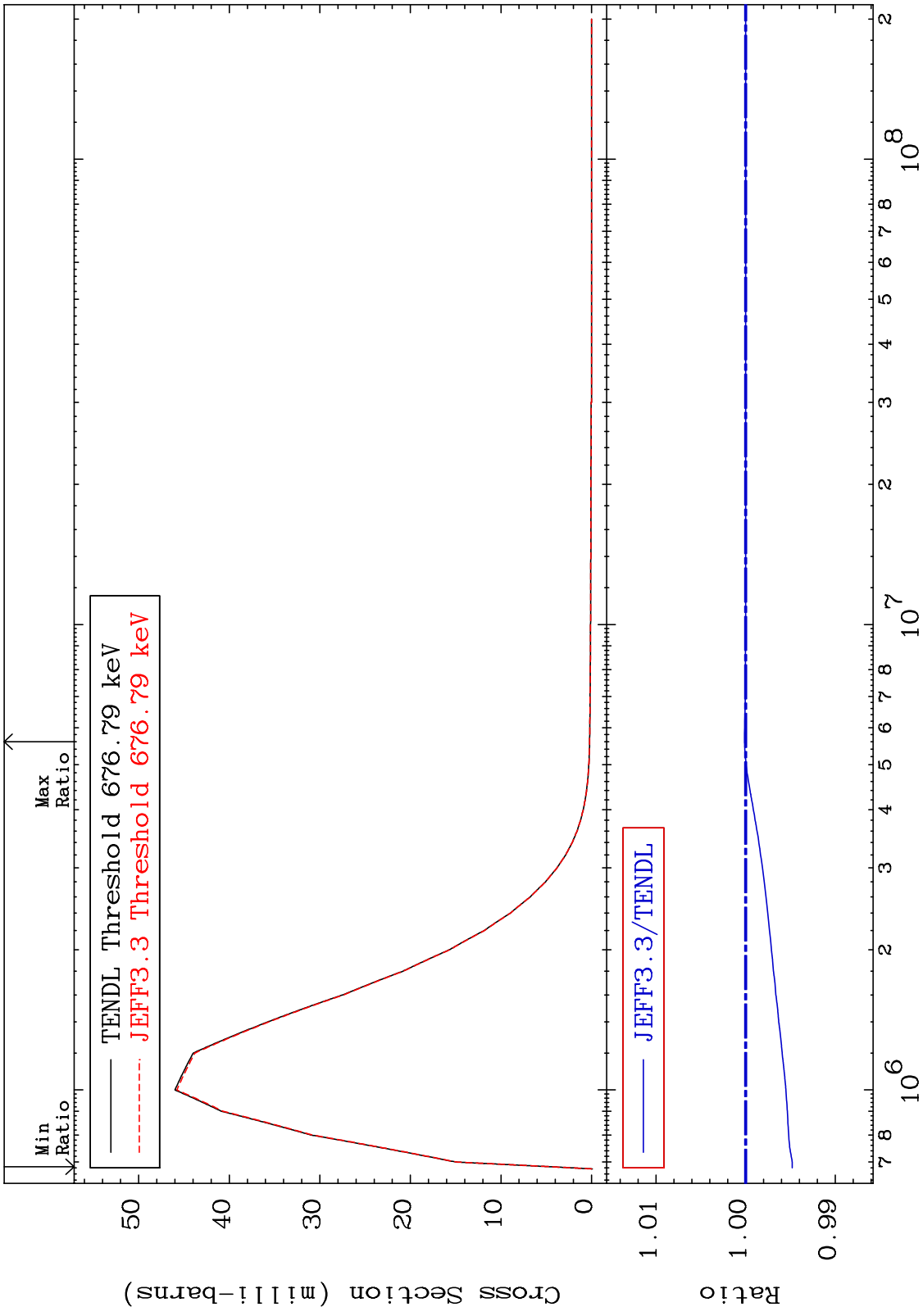
MAT 7322 MT= 63 (n,n') Level Cross Section 73-Ta-179
 -0.596 To 0.017 %



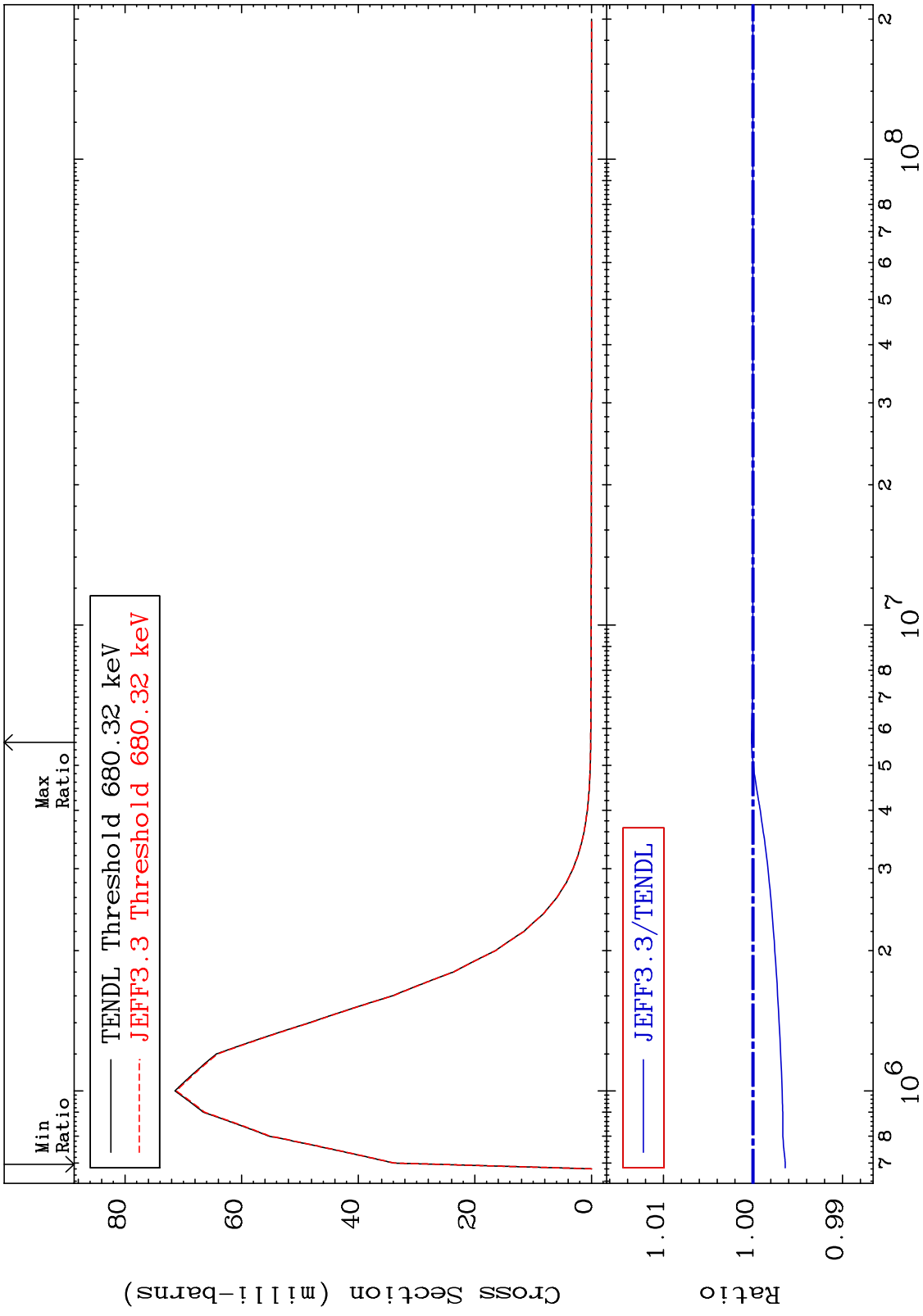
MAT 7322 MT= 64 (n,n') Level Cross Section 73-Ta-179
 -0.428 To 0.009 %



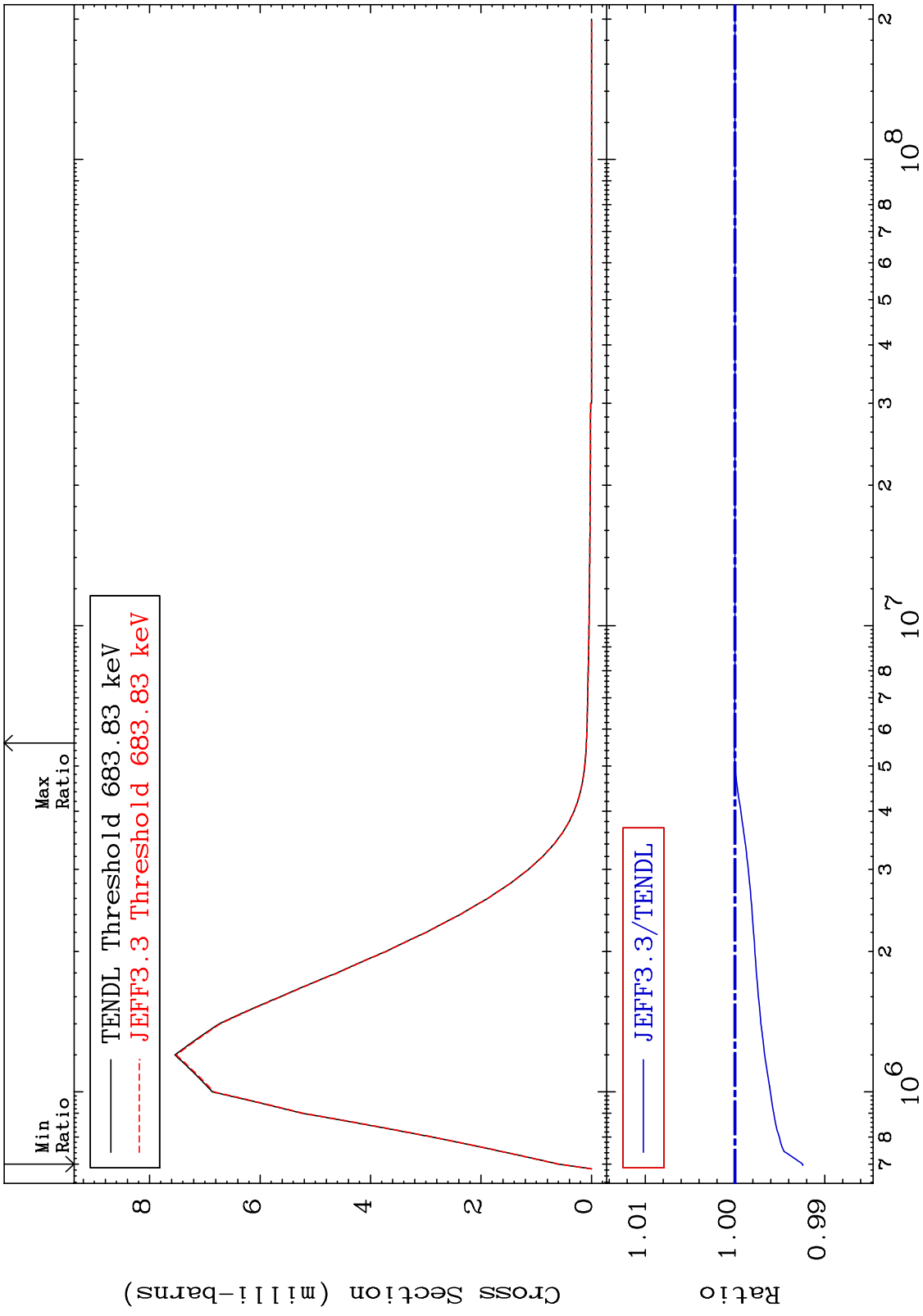
MAT 7322 MT= 65 (n,n') Level Cross Section 73-Ta-179
 -0.521 To 0.010 %



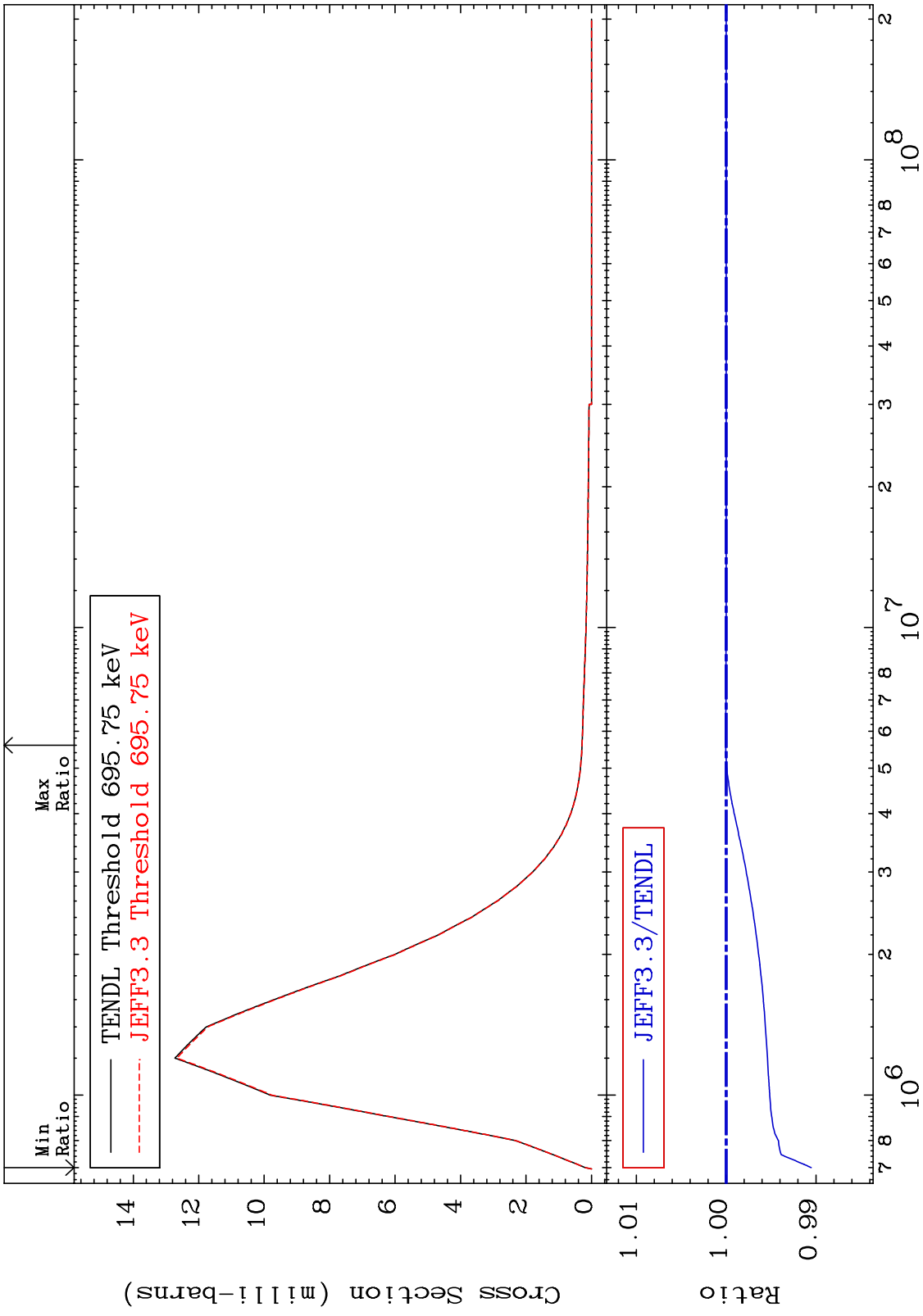
MAT 7322 MT= 66 (n,n') Level Cross Section 73-Ta-179 -0.361 To 0.015 %



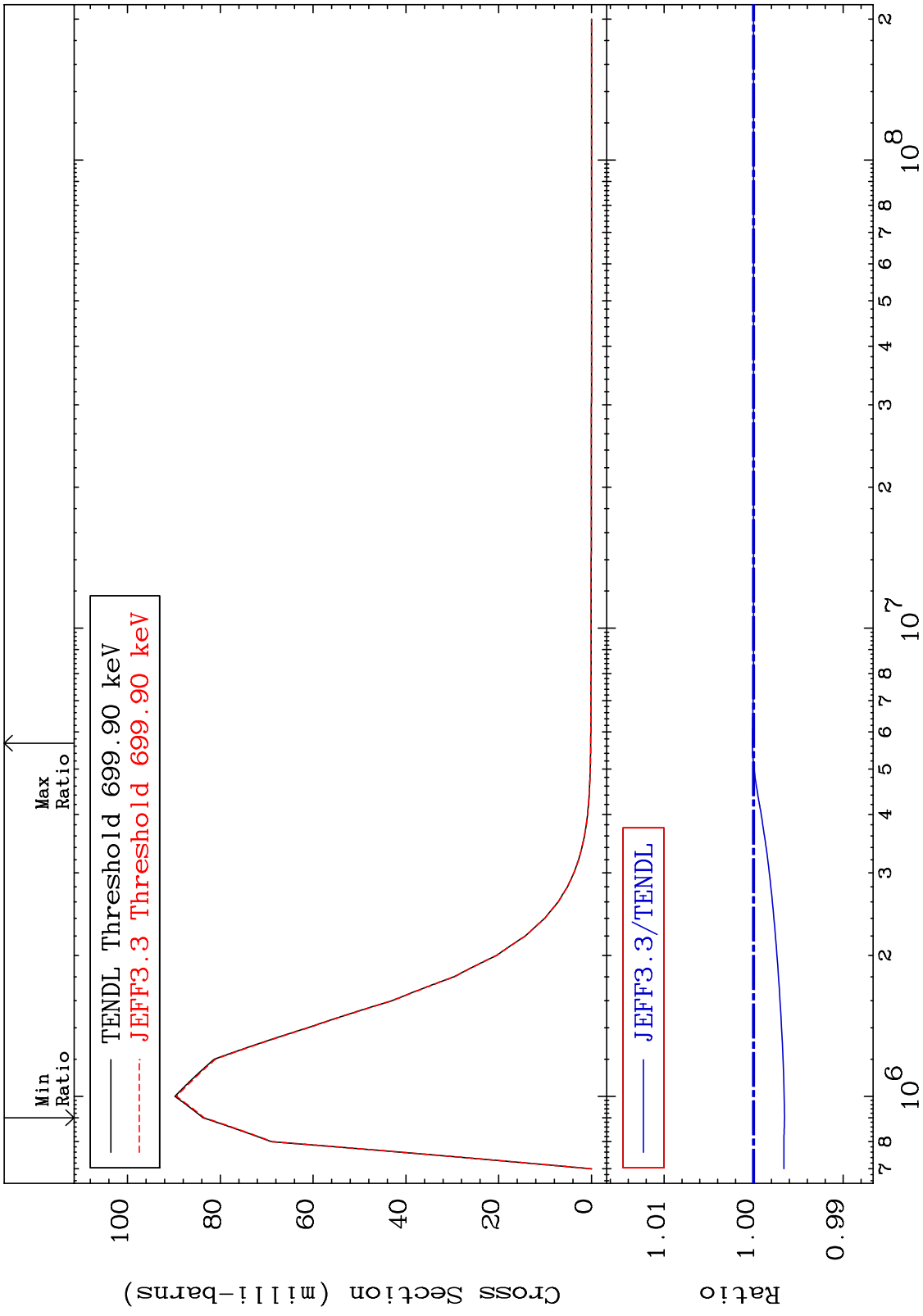
MAT 7322 MT= 67 (n,n') Level Cross Section 73-Ta-179
 -0.755 To 0.008 %



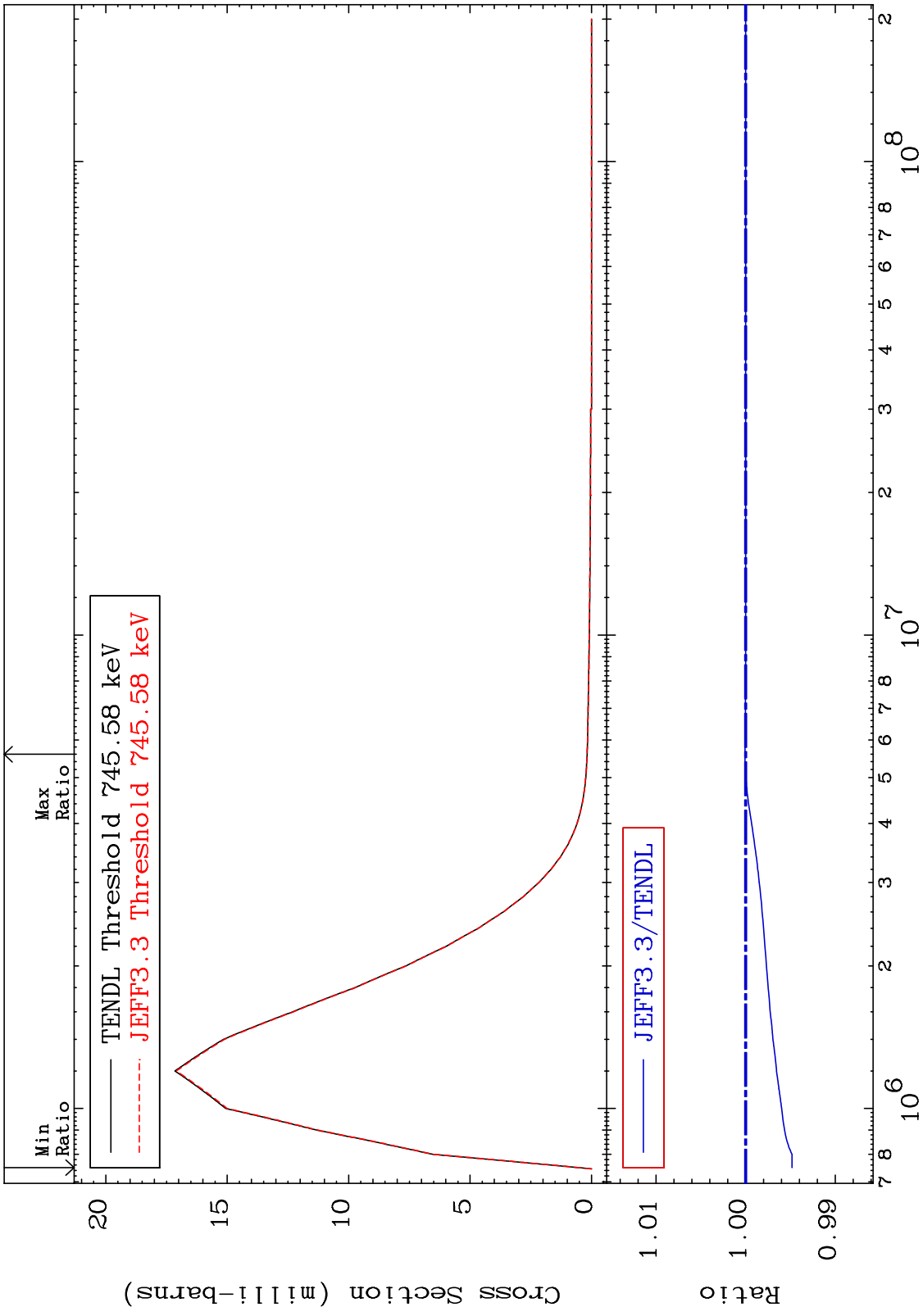
MAT 7322 MT= 68 (n,n') Level Cross Section 73-Ta-179 -0.948 To 0.006 %



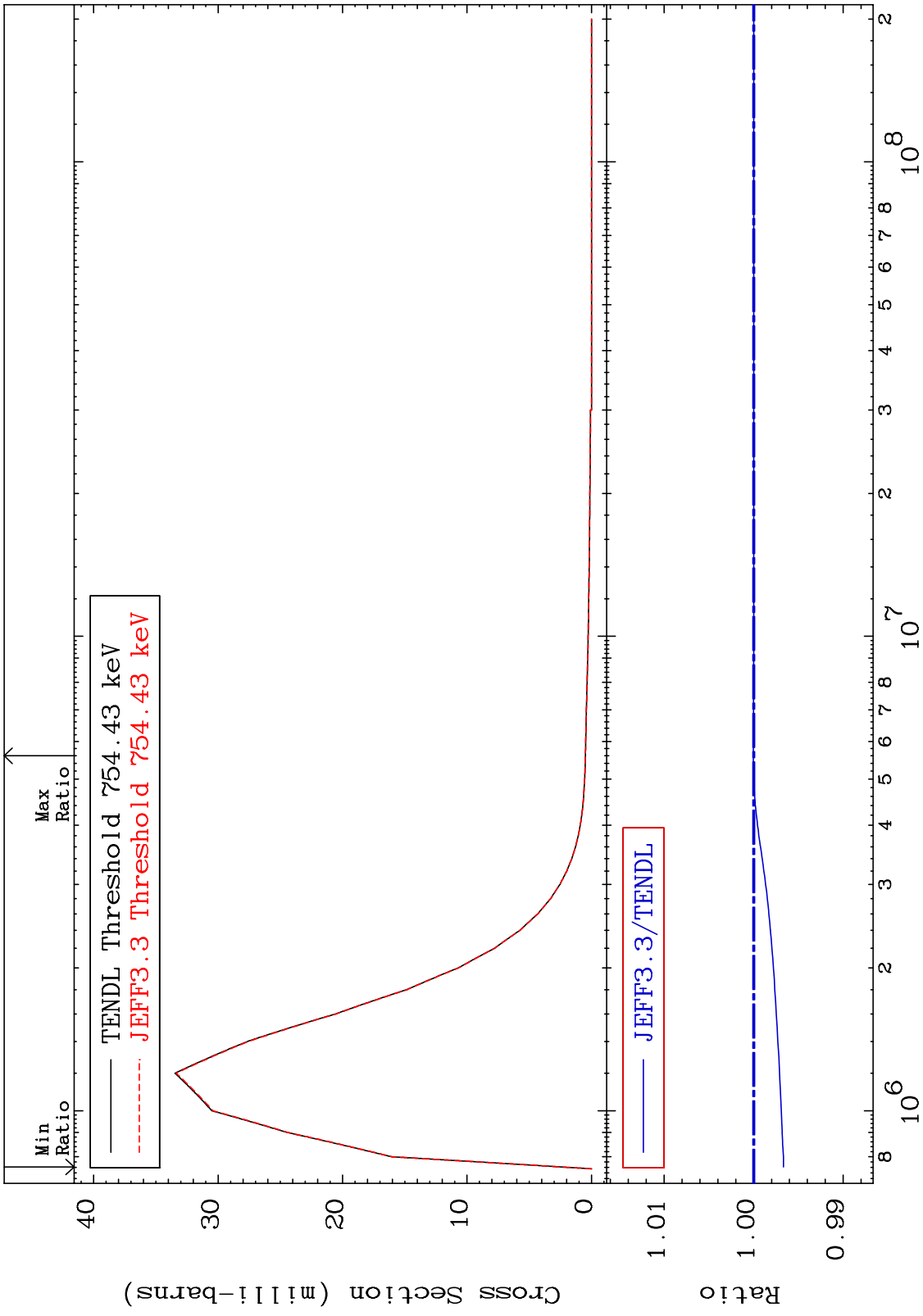
MAT 7322 MT= 69 (n,n') Level Cross Section 73-Ta-179
 -0.345 To 0.013 %



MAT 7322 MT= 70 (n,n') Level Cross Section 73-Ta-179
 -0.517 To 0.008 %

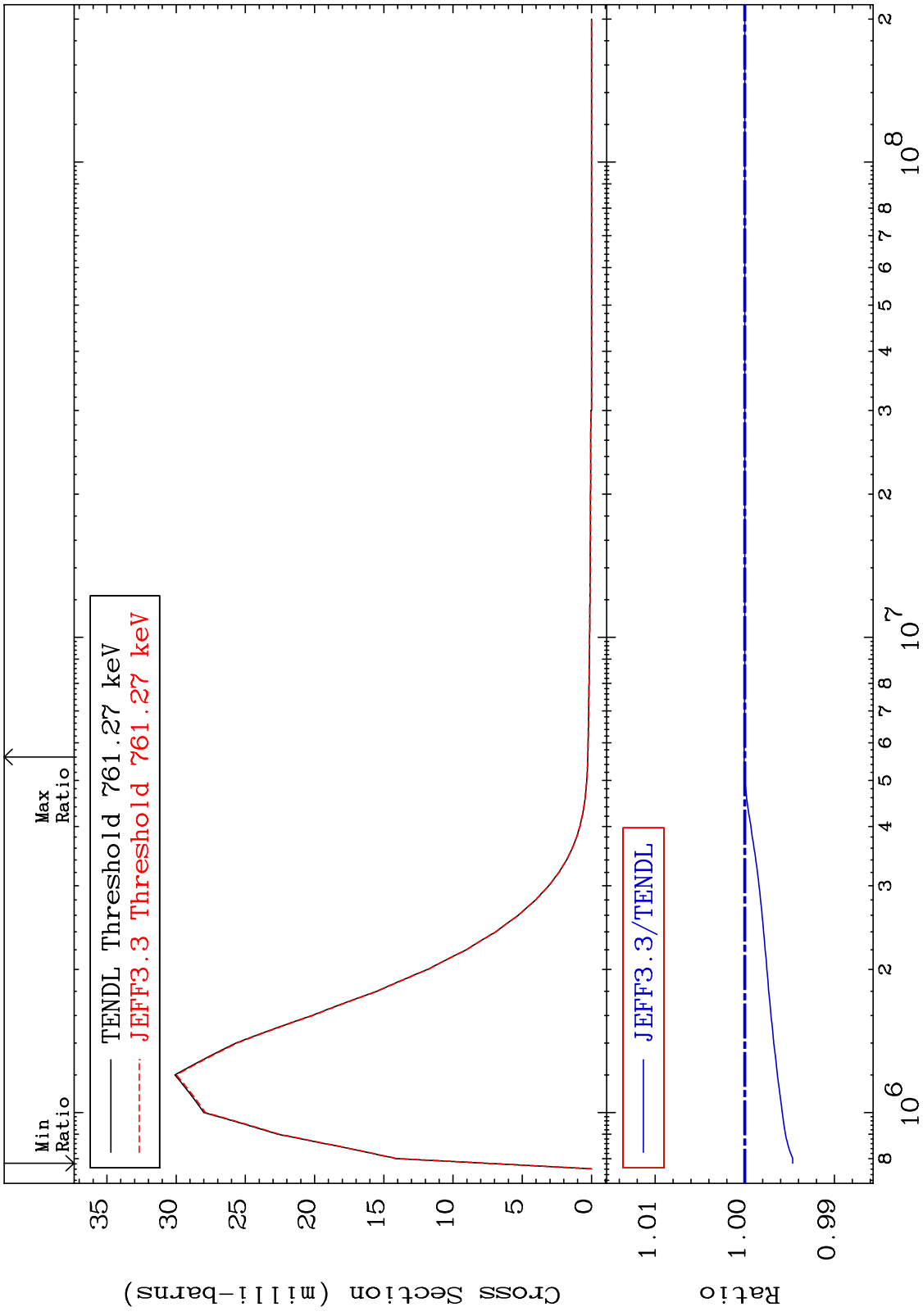


MAT 7322 MT= 71 (n,n') Level Cross Section 73-Ta-179 -0.333 To 0.003 %

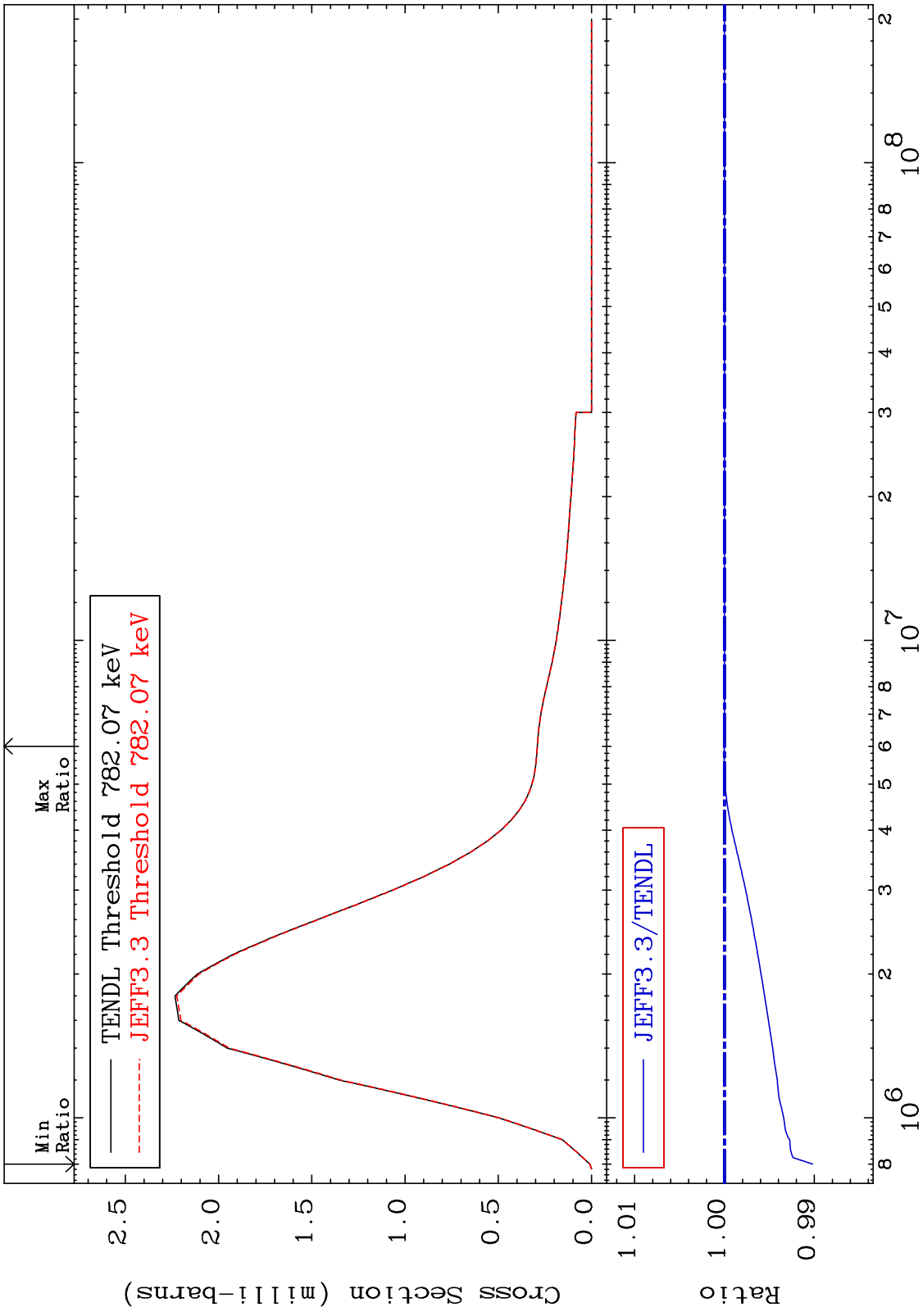


73-Ta-179

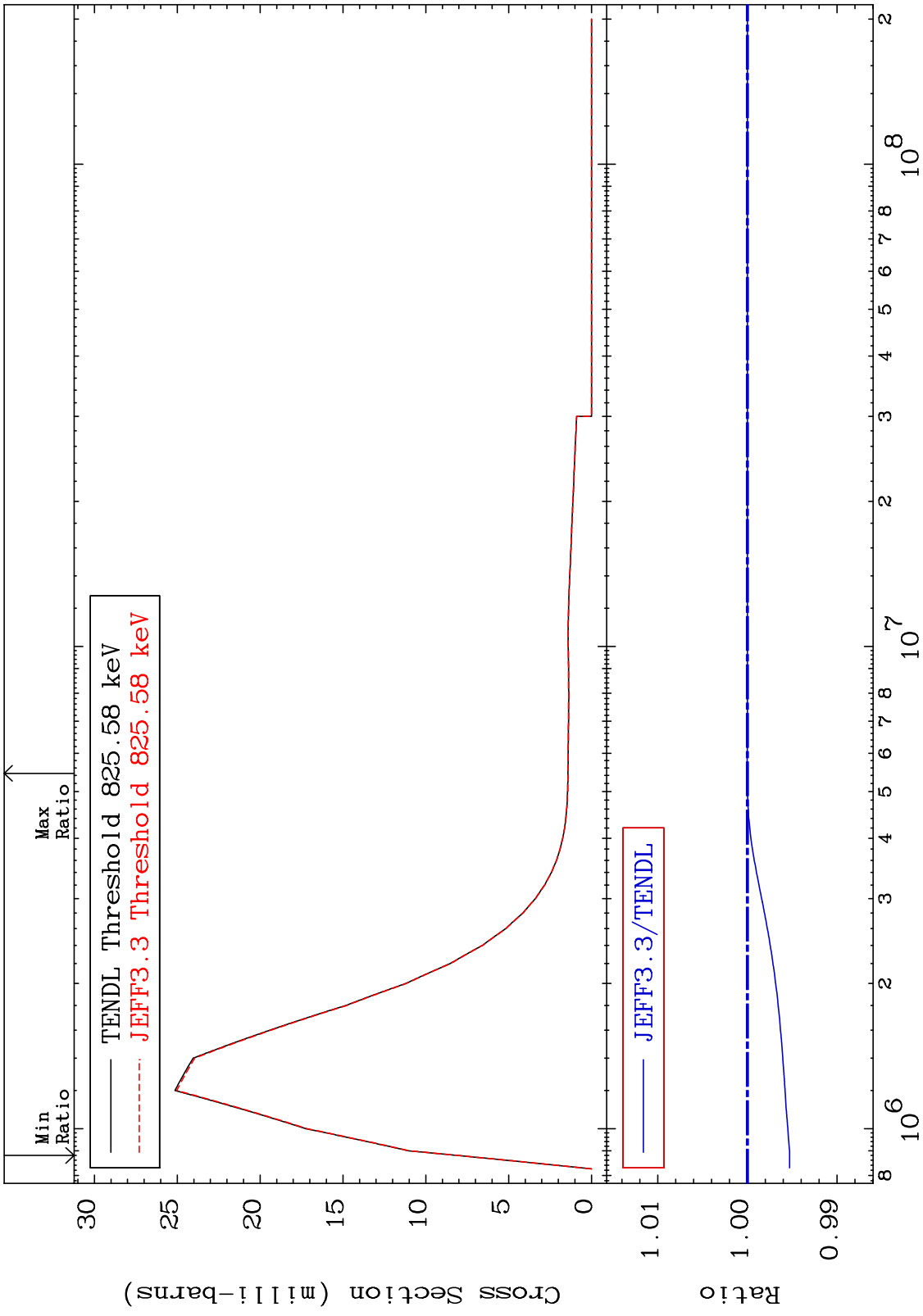
MAT 7322 MT= 72 (n,n') Level Cross Section 73-Ta-179 -0.535 To 0.007 %



MAT 7322 MT= 73 (n,n') Level Cross Section 73-Ta-179 -0.980 To 0.003 %

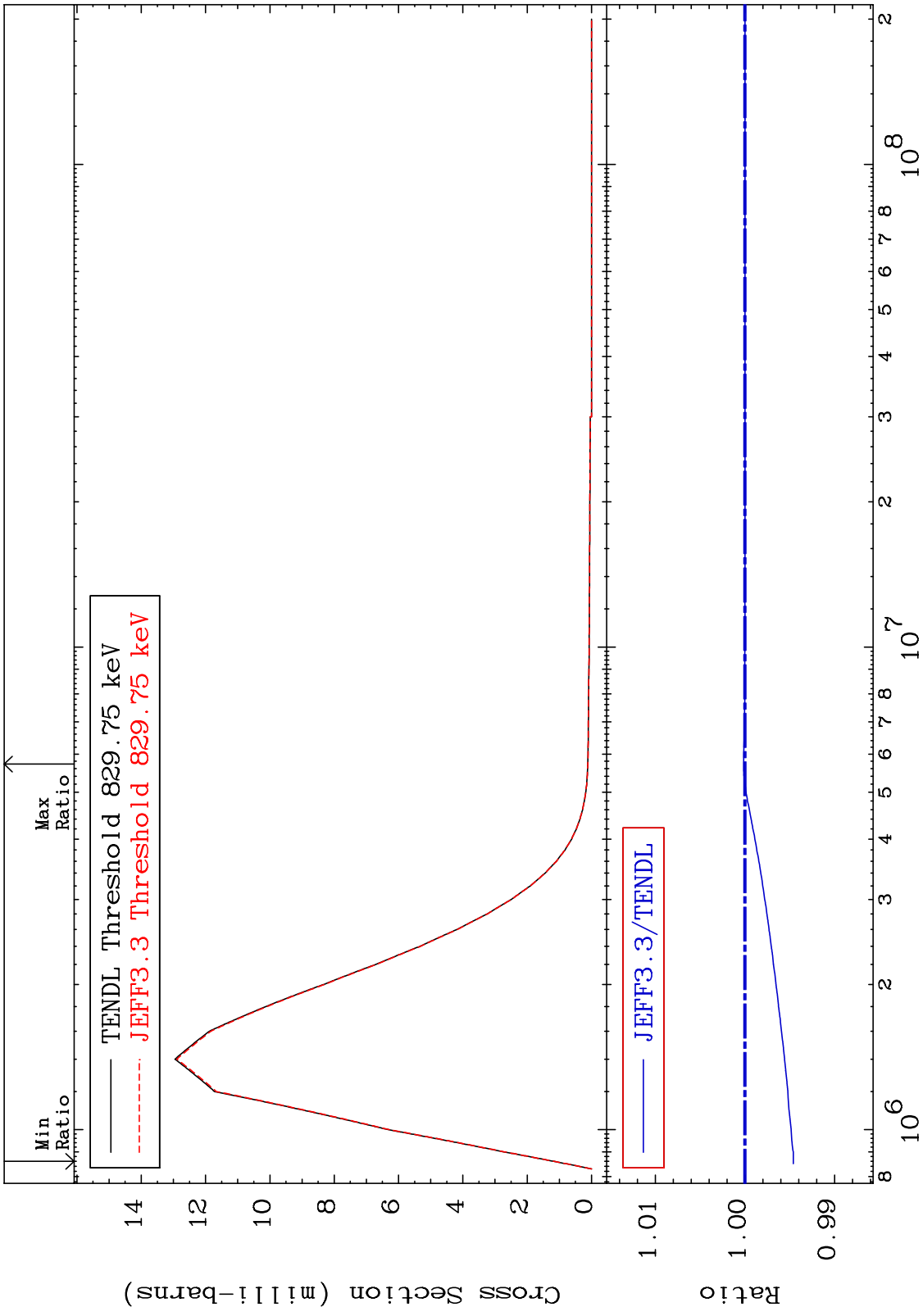


MAT 7322 MT= 74 (n,n') Level Cross Section 73-Ta-179 -0.471 To 0.001 %



43 73-Ta-179

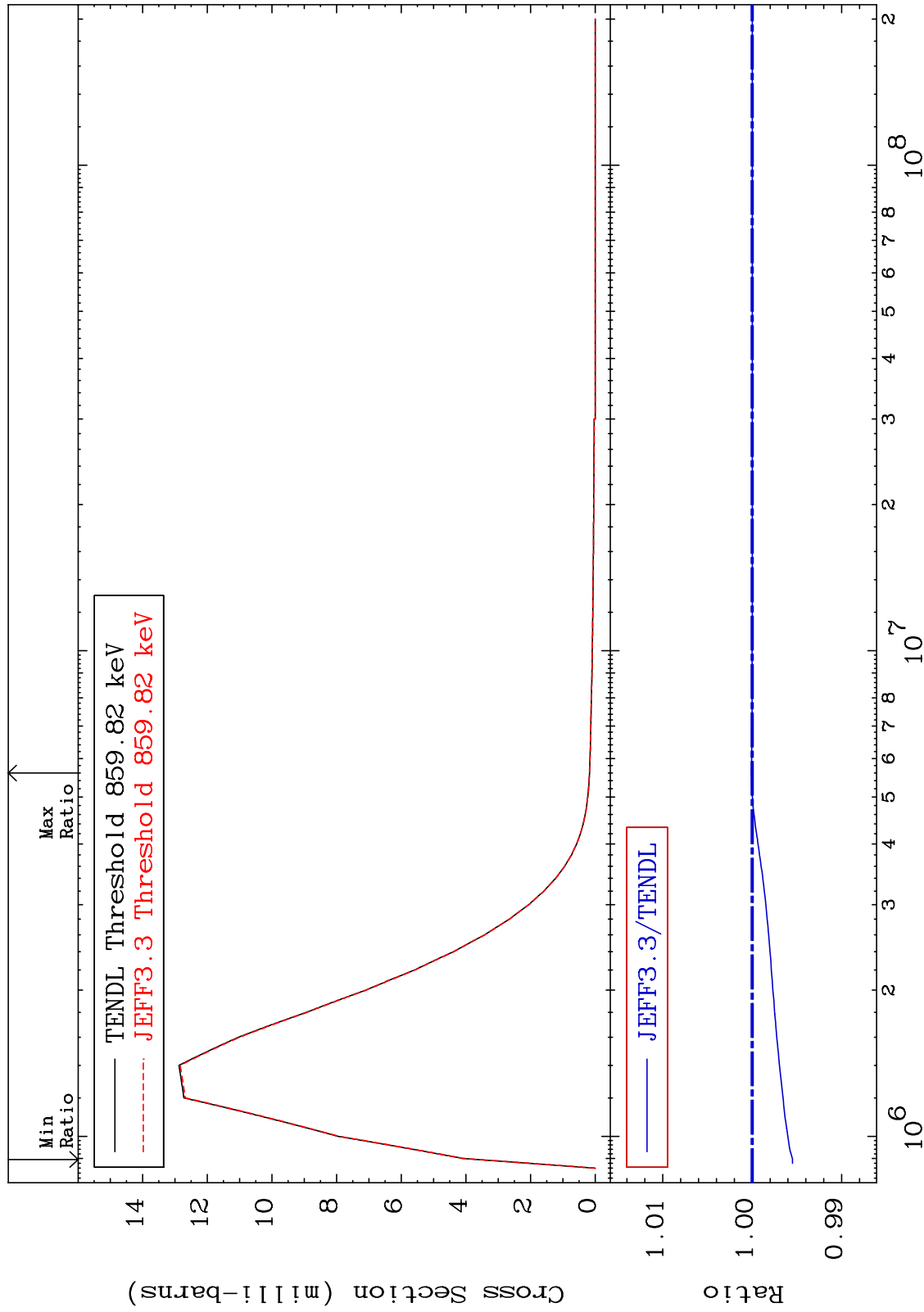
MAT 7322 MT= 75 (n,n') Level Cross Section 73-Ta-179 -0.540 To 0.014 %



MAT 7322

MT= 76 (n,n') Level
Cross Section

73-Ta-179
-0.451 To 0.008 %

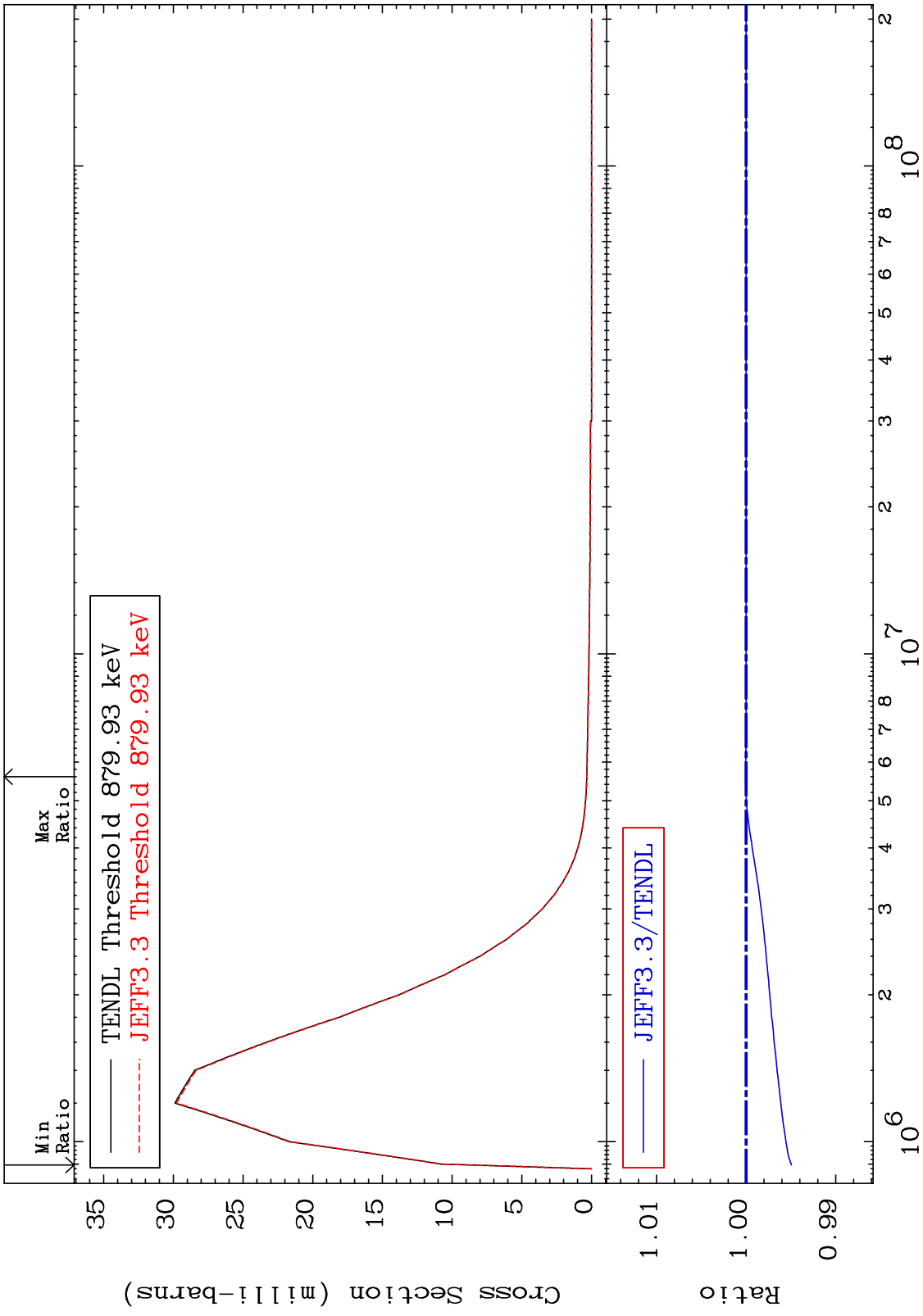


45

Incident Energy (eV)

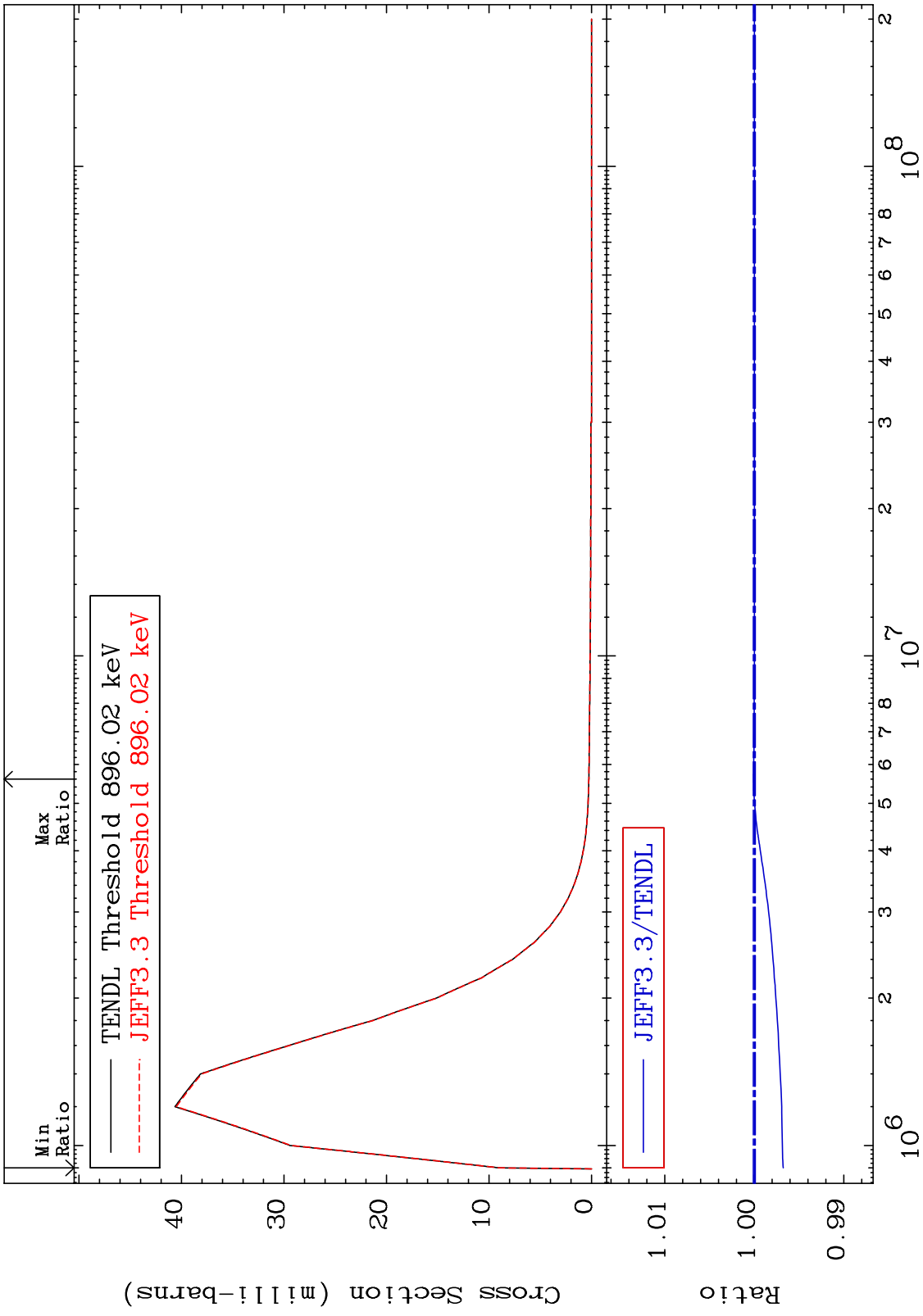
73-Ta-179

MAT 7322 MT= 77 (n,n') Level Cross Section 73-Ta-179 -0.503 To 0.006 %



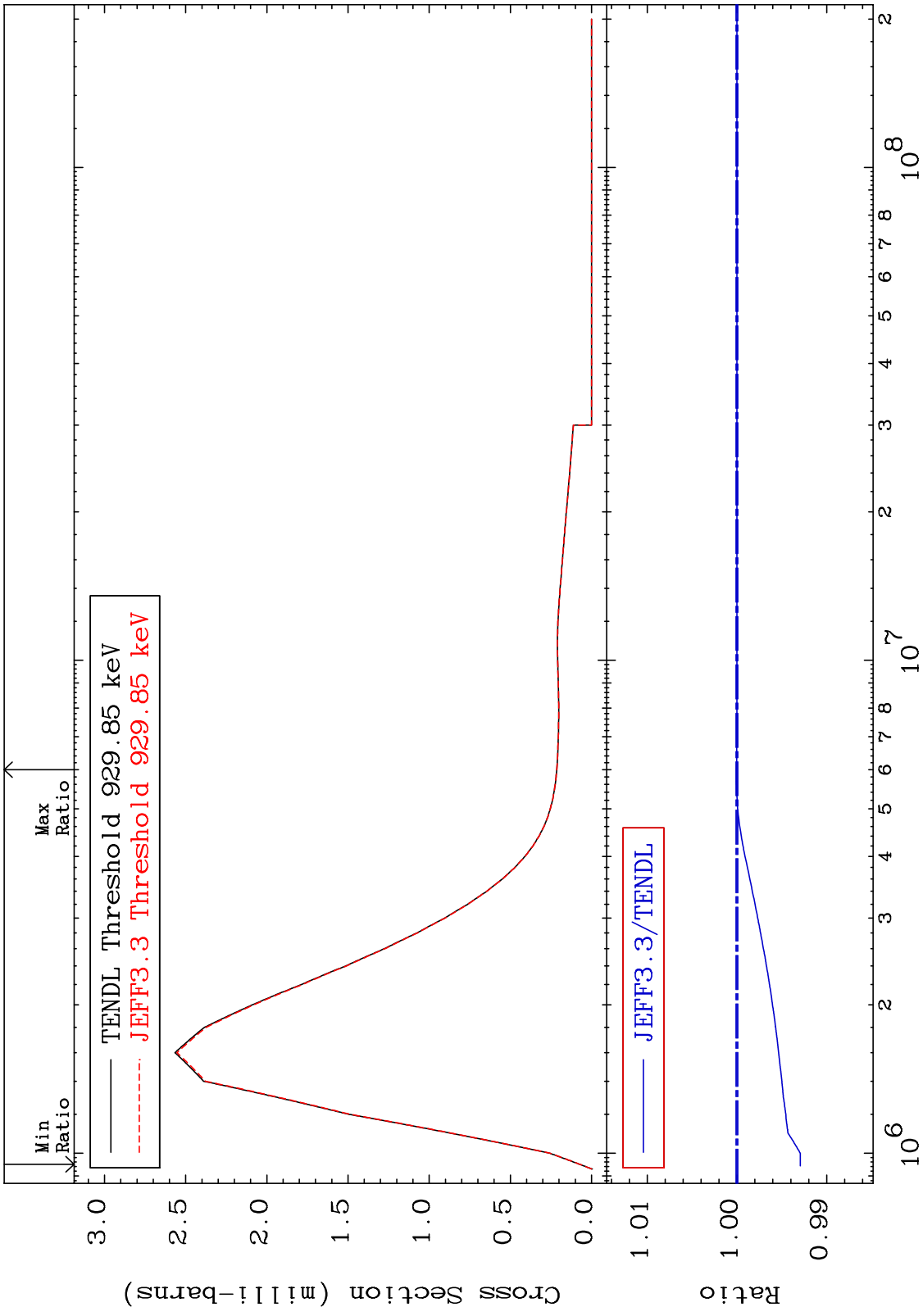
46 73-Ta-179

MAT 7322 MT= 78 (n,n') Level Cross Section 73-Ta-179 -0.324 To 0.008 %



47 73-Ta-179

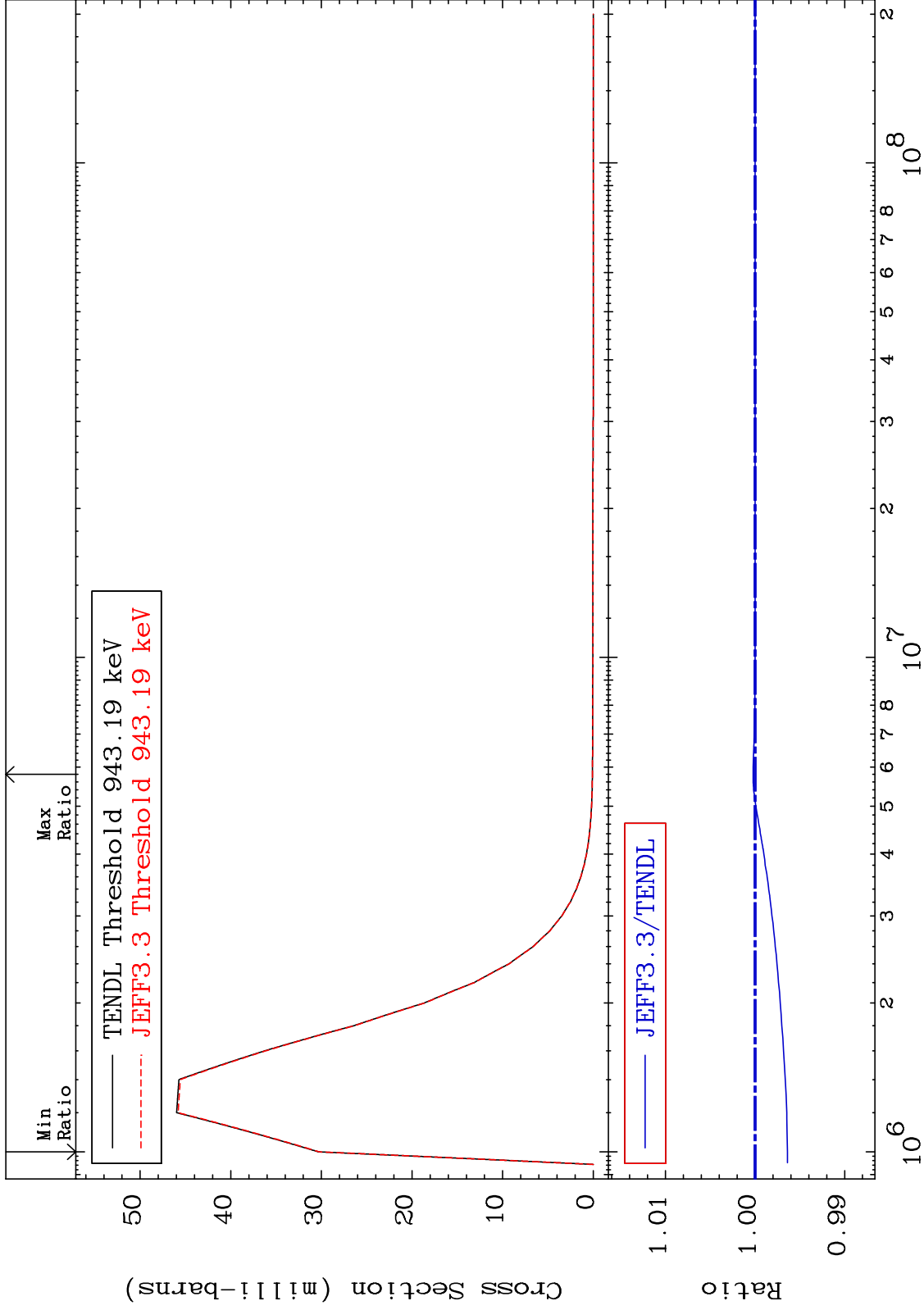
MAT 7322 MT= 79 (n,n') Level Cross Section 73-Ta-179 -0.706 To 0.005 %



MAT 7322

MT= 80 (n,n') Level
Cross Section

73-Ta-179
-0.361 To 0.023 %



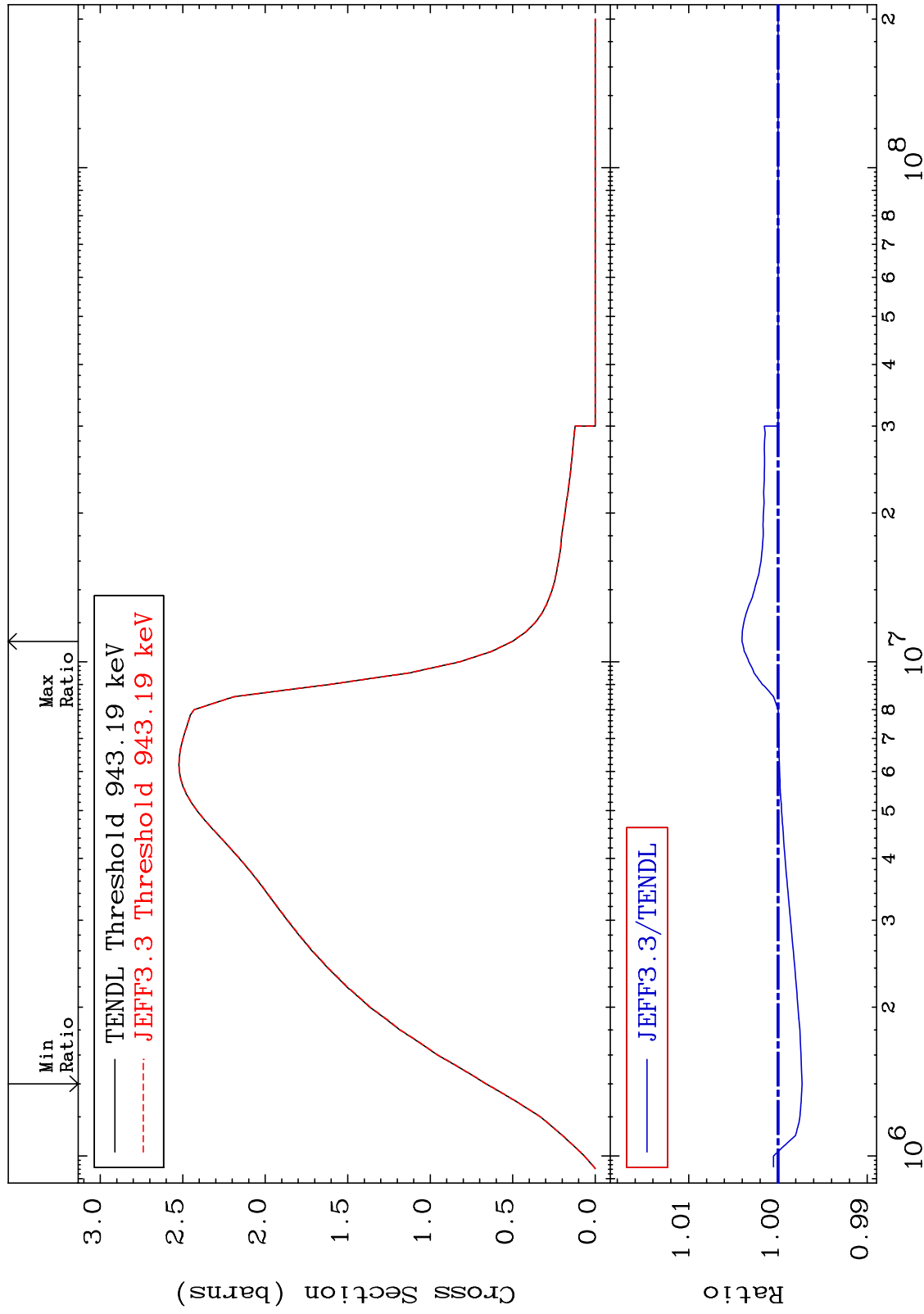
49

73-Ta-179

MAT 7322

(n, n') Continuum
Cross Section

73-Ta-179
-0.269 To 0.403 %



Incident Energy (eV)

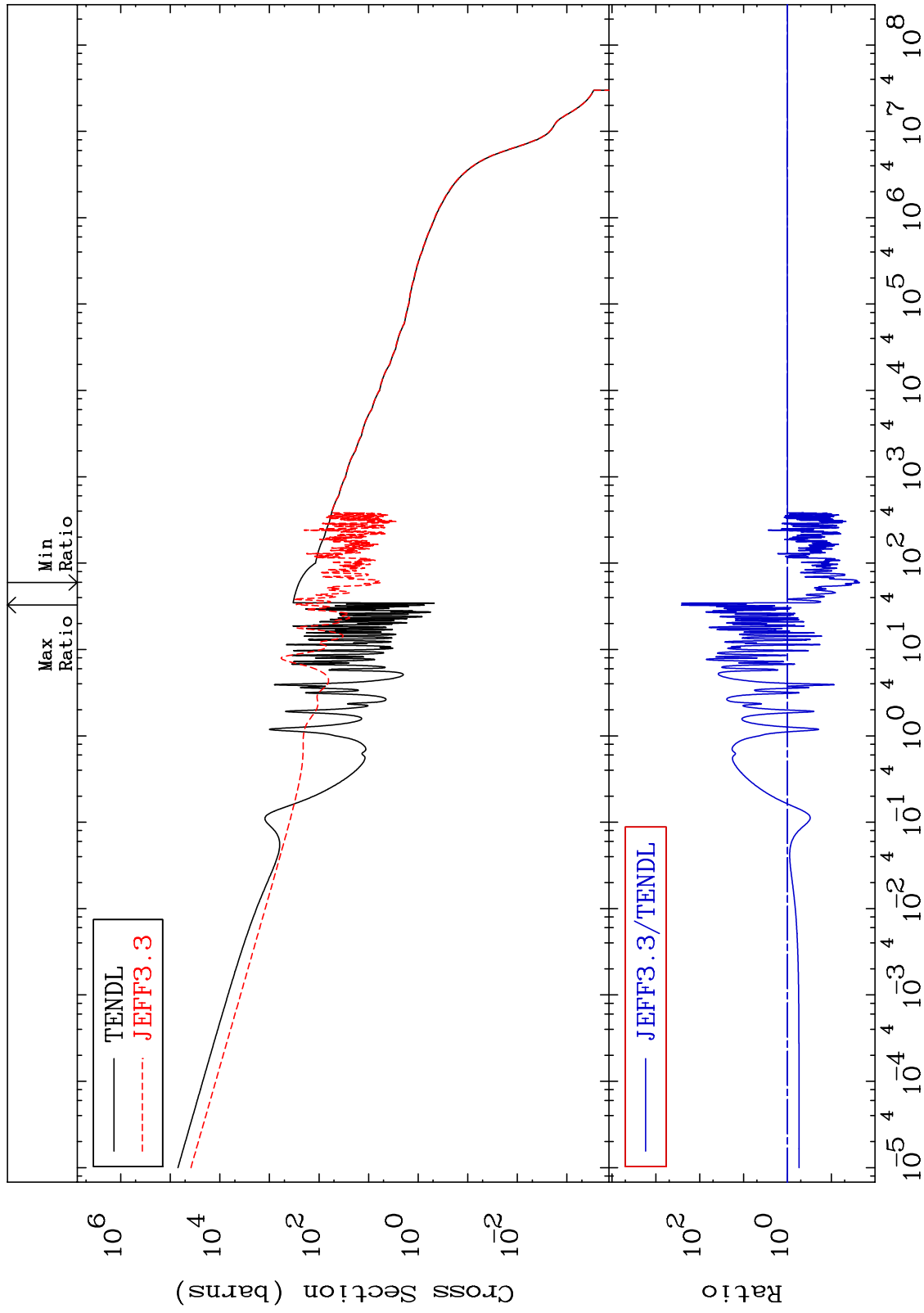
73-Ta-179

50

MAT 7322

(n, γ)
Cross Section

73-Ta-179
-97.74 To 9999. %



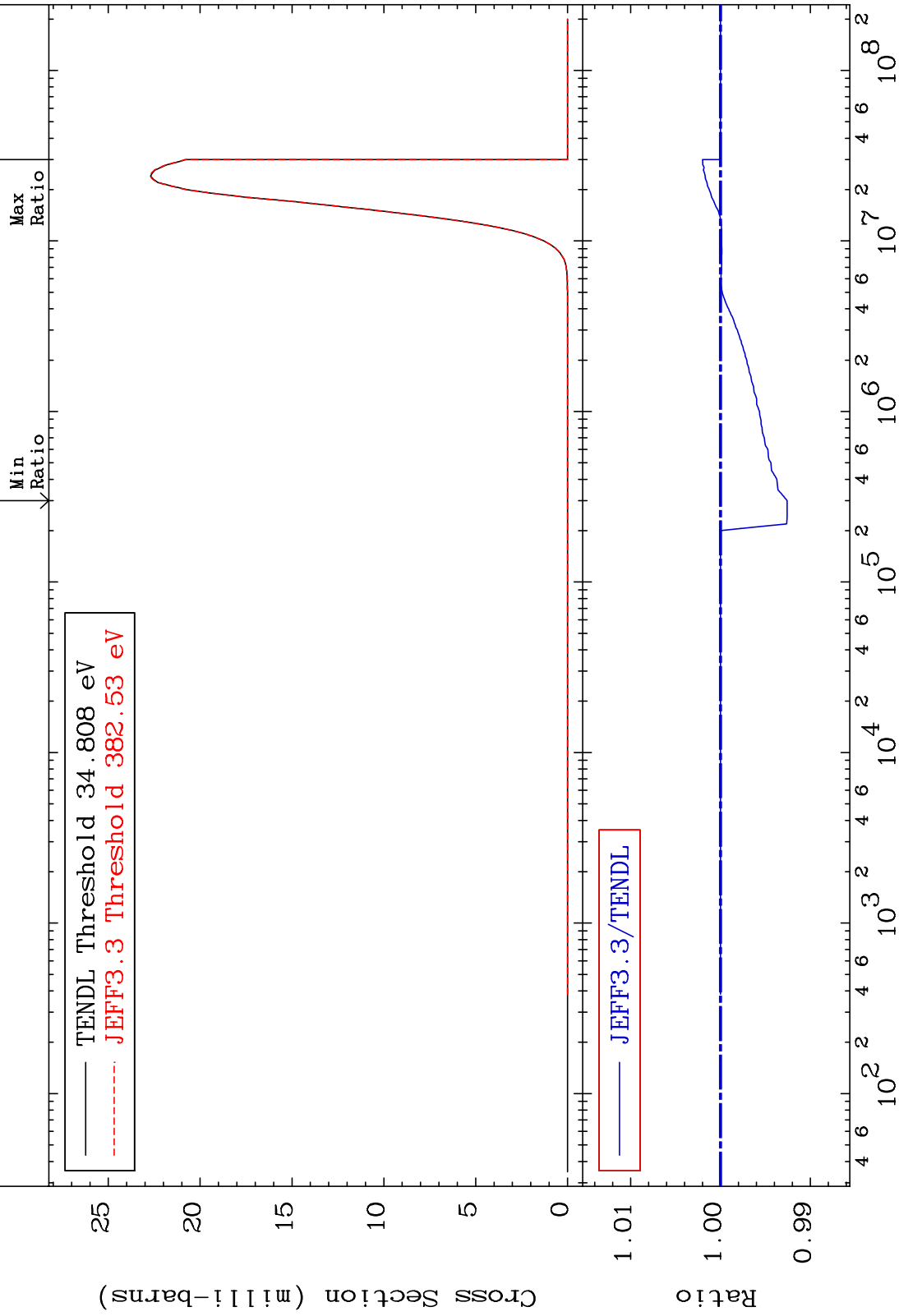
MAT 7322

(n,p)

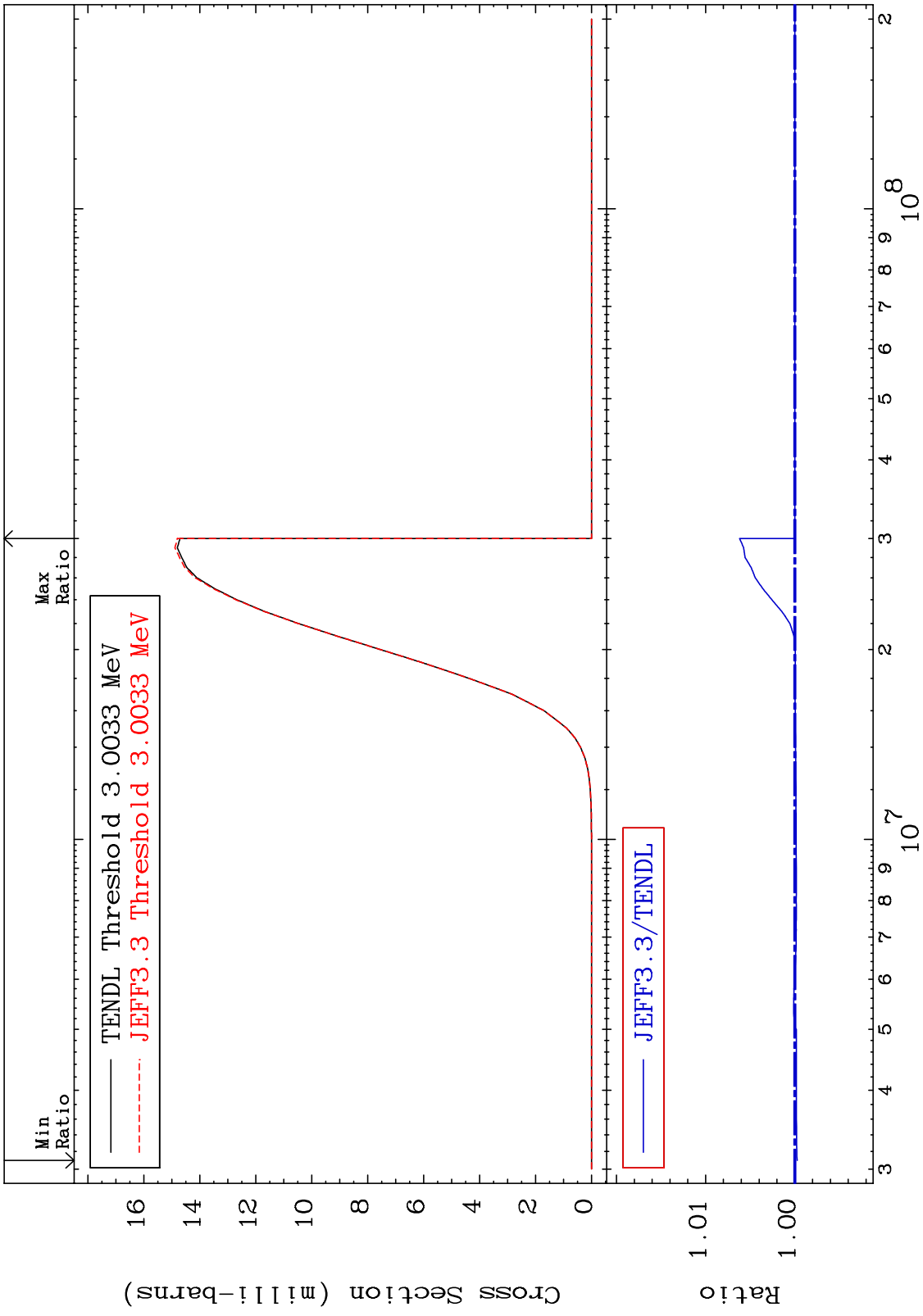
73-Ta-179

Cross Section

-0.741 To 0.200 %



MAT 7322 (n,d) Cross Section 73-Ta-179 -0.028 To 0.619 %



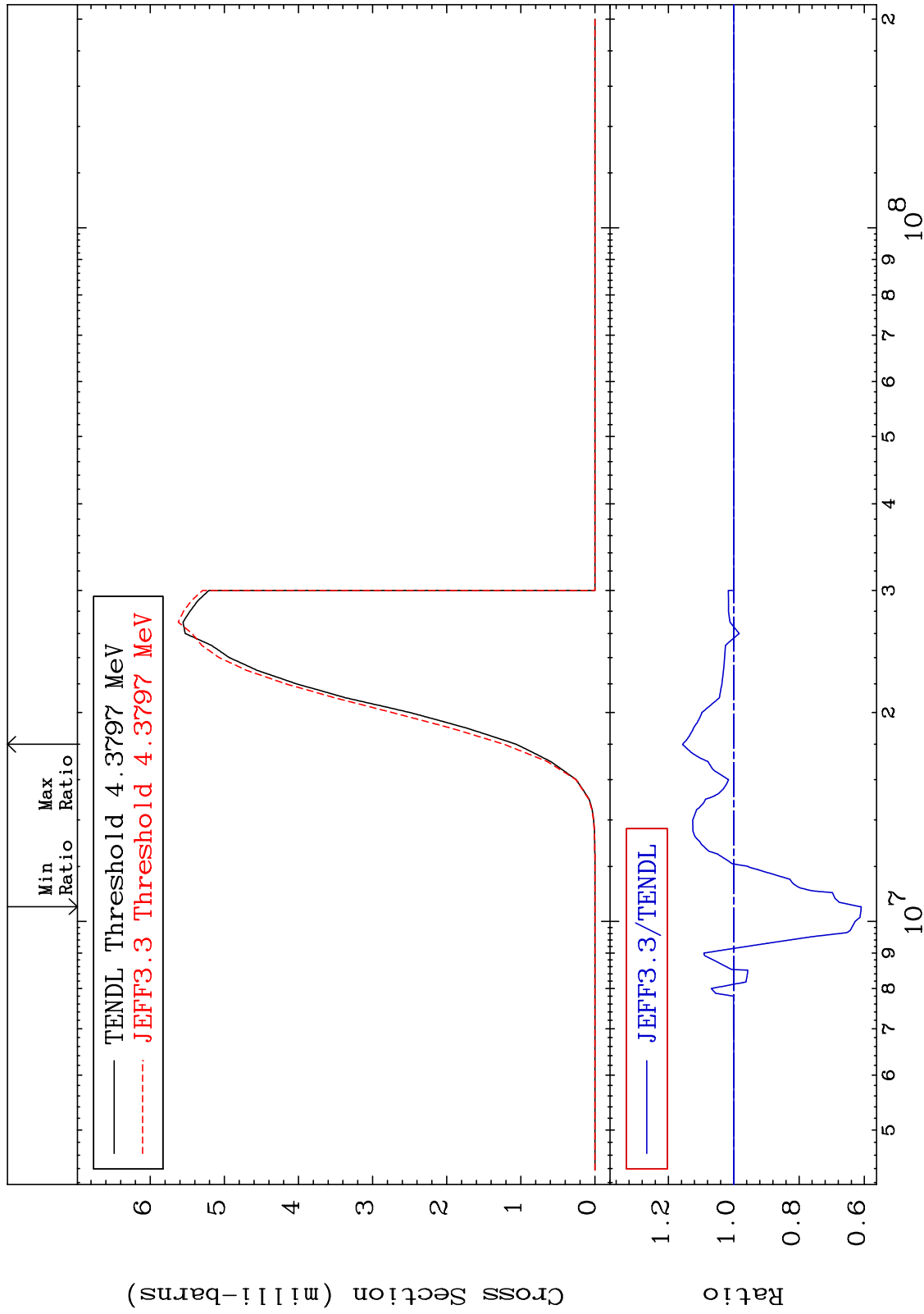
MAT 7322

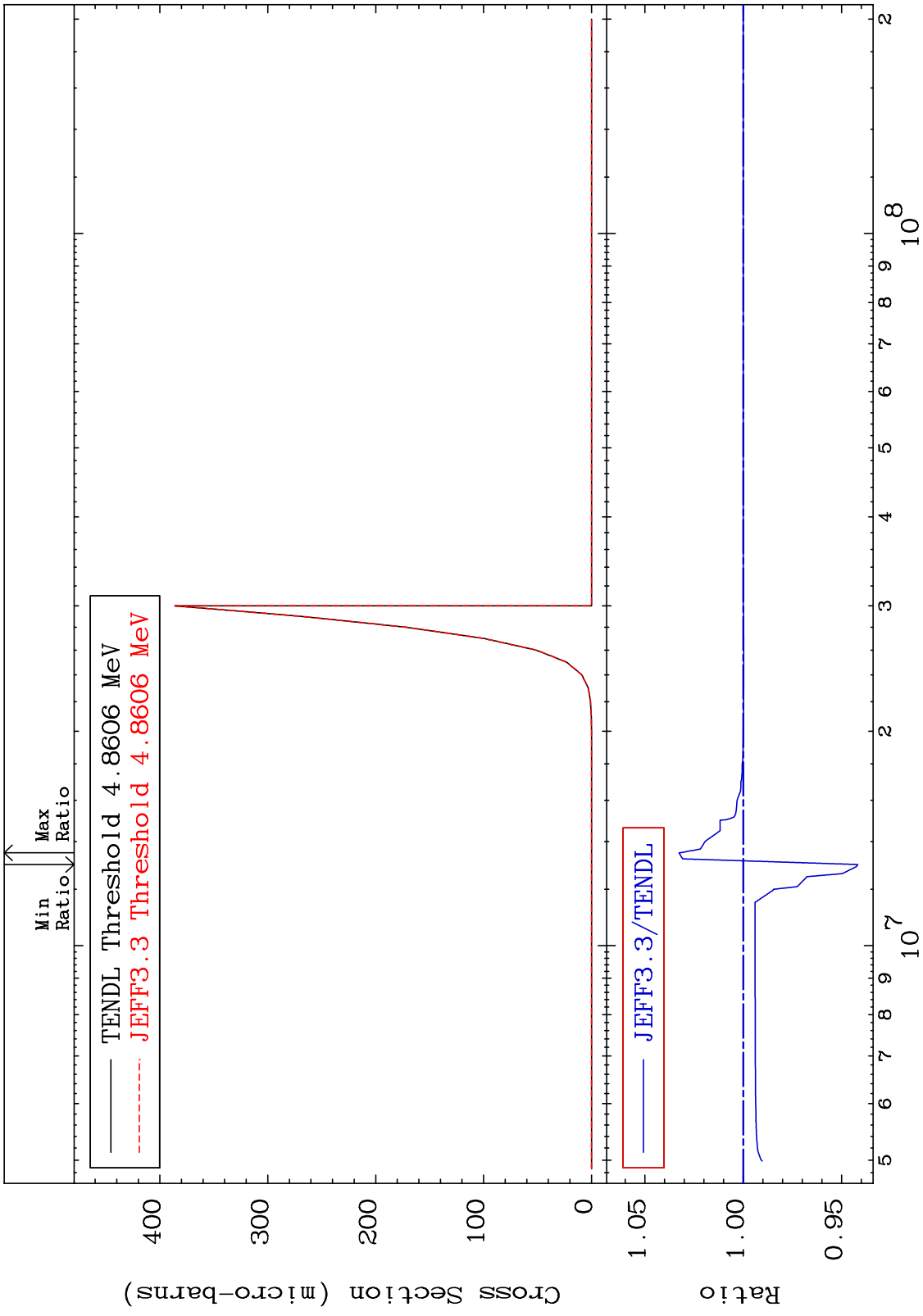
(n, t)

73-Ta-179

Cross Section

-39.05 To 15.68 %





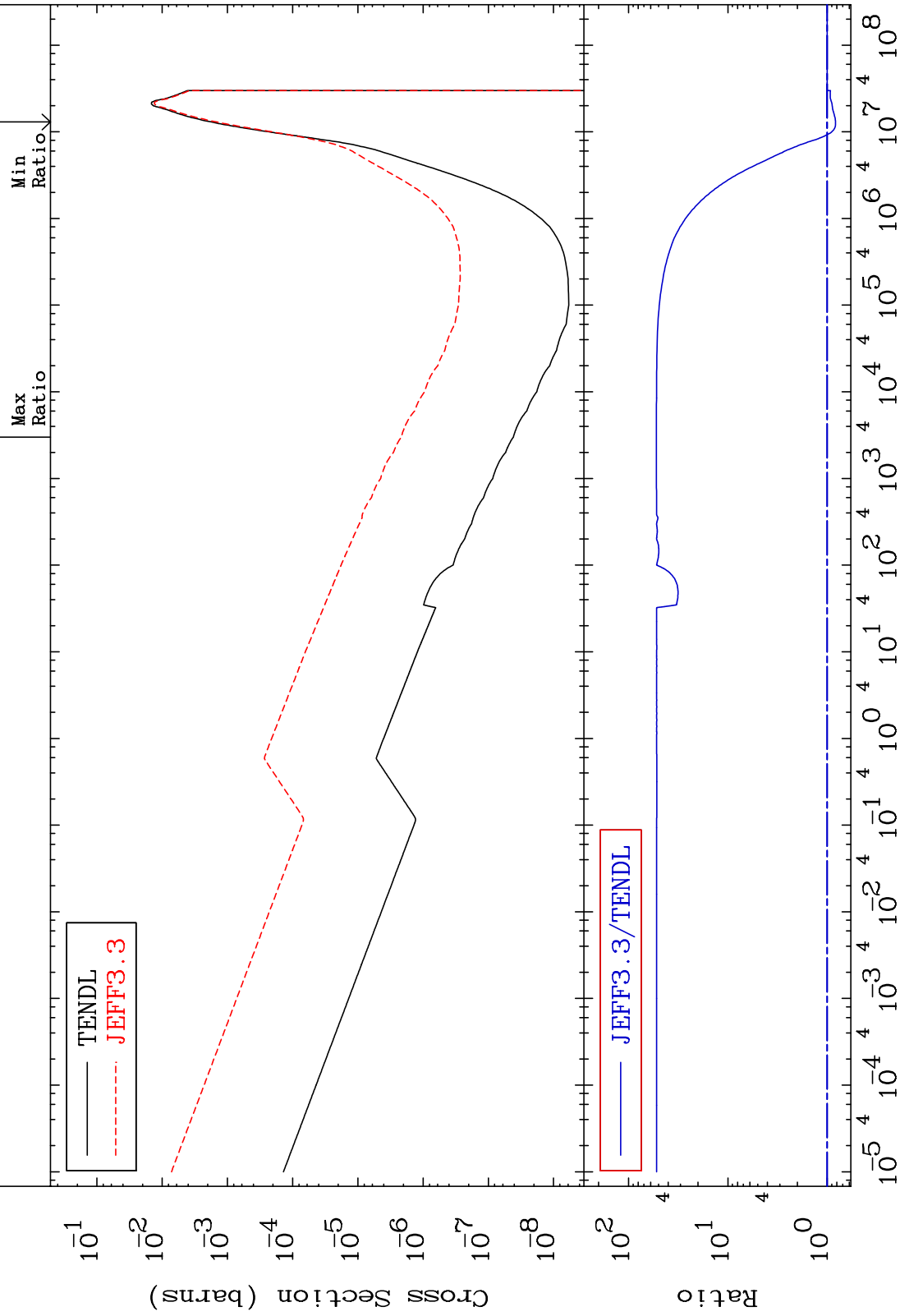
MAT 7322

(n, α)

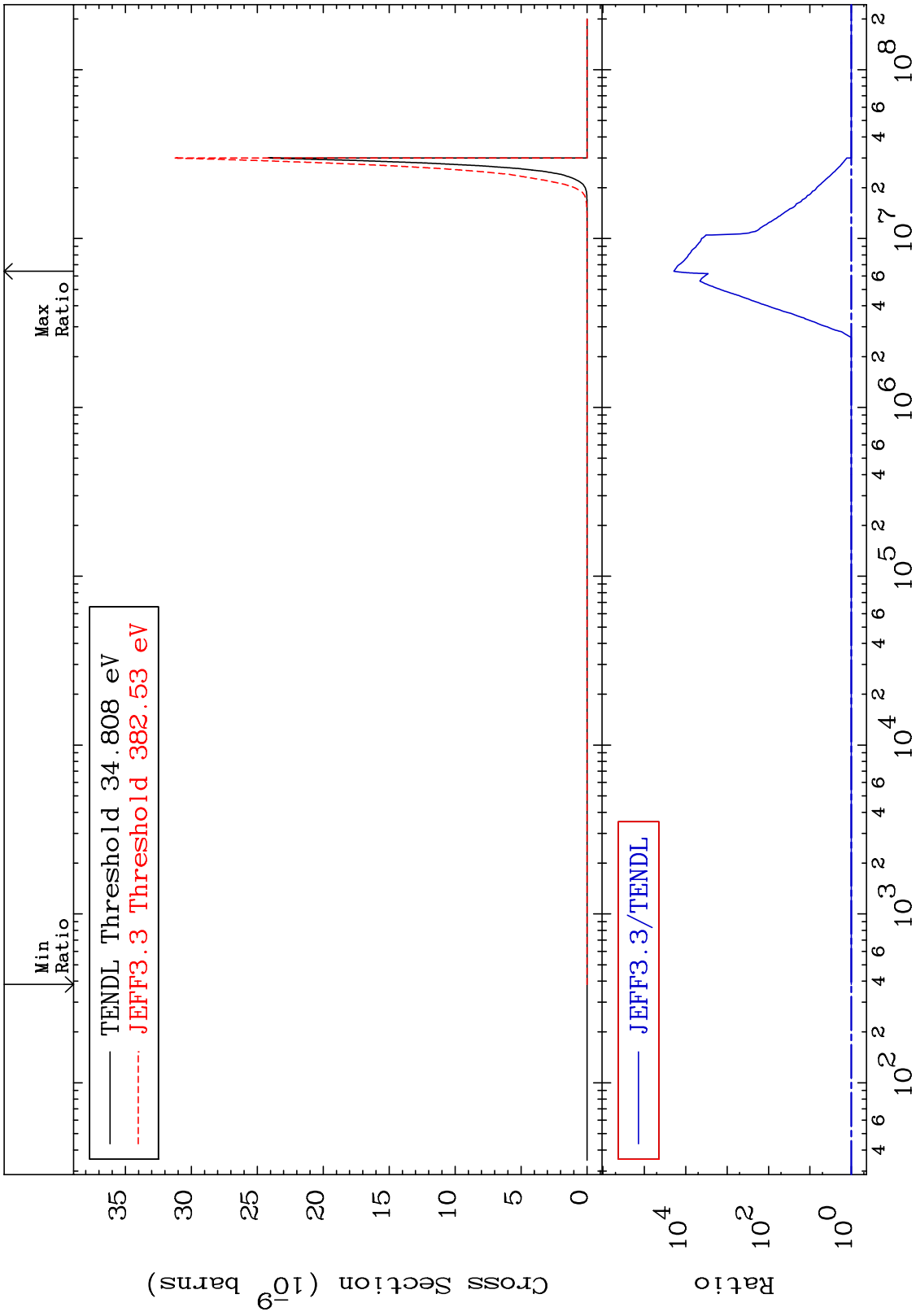
73-Ta-179

-17.44 To 5141. %

Cross Section

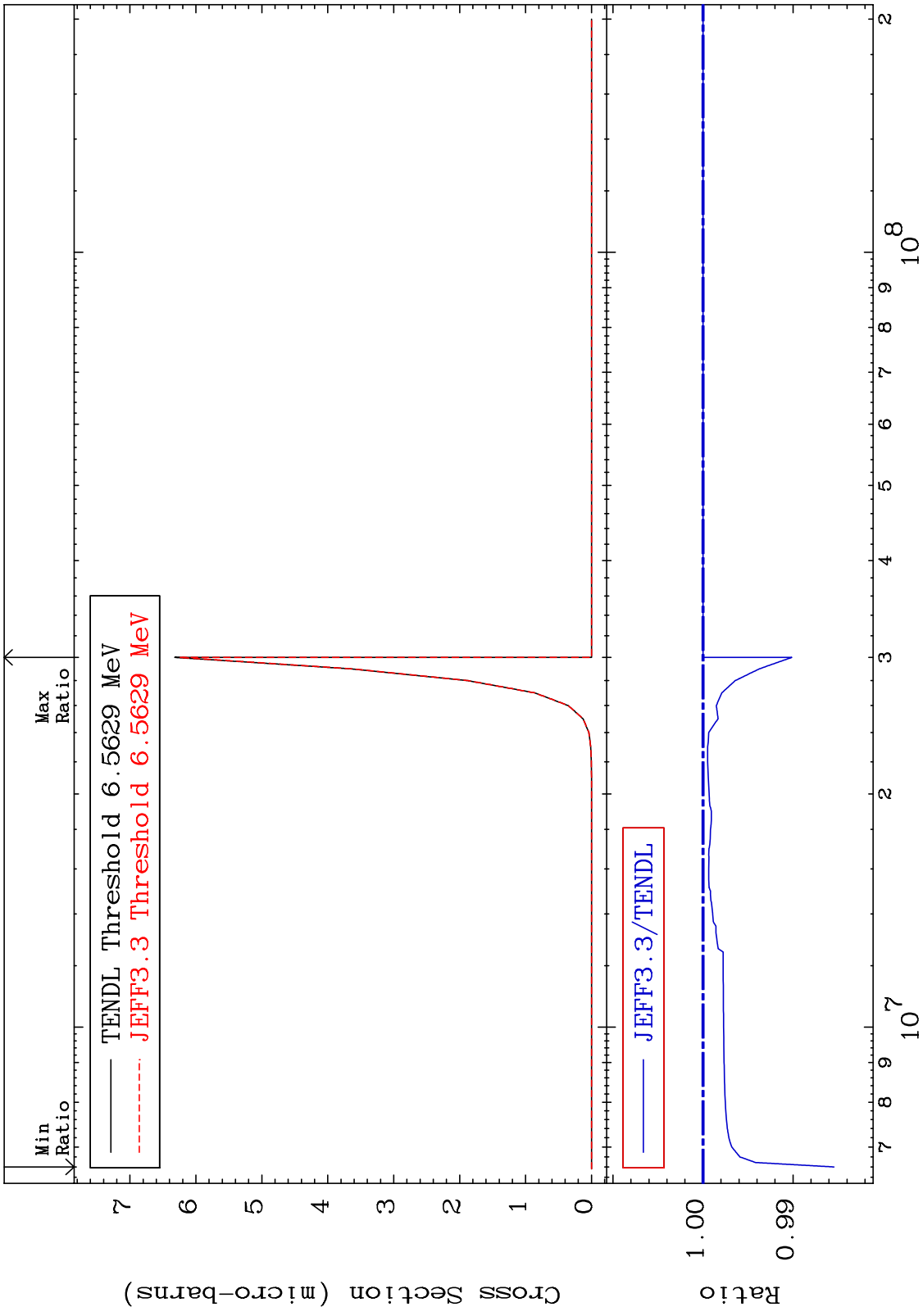


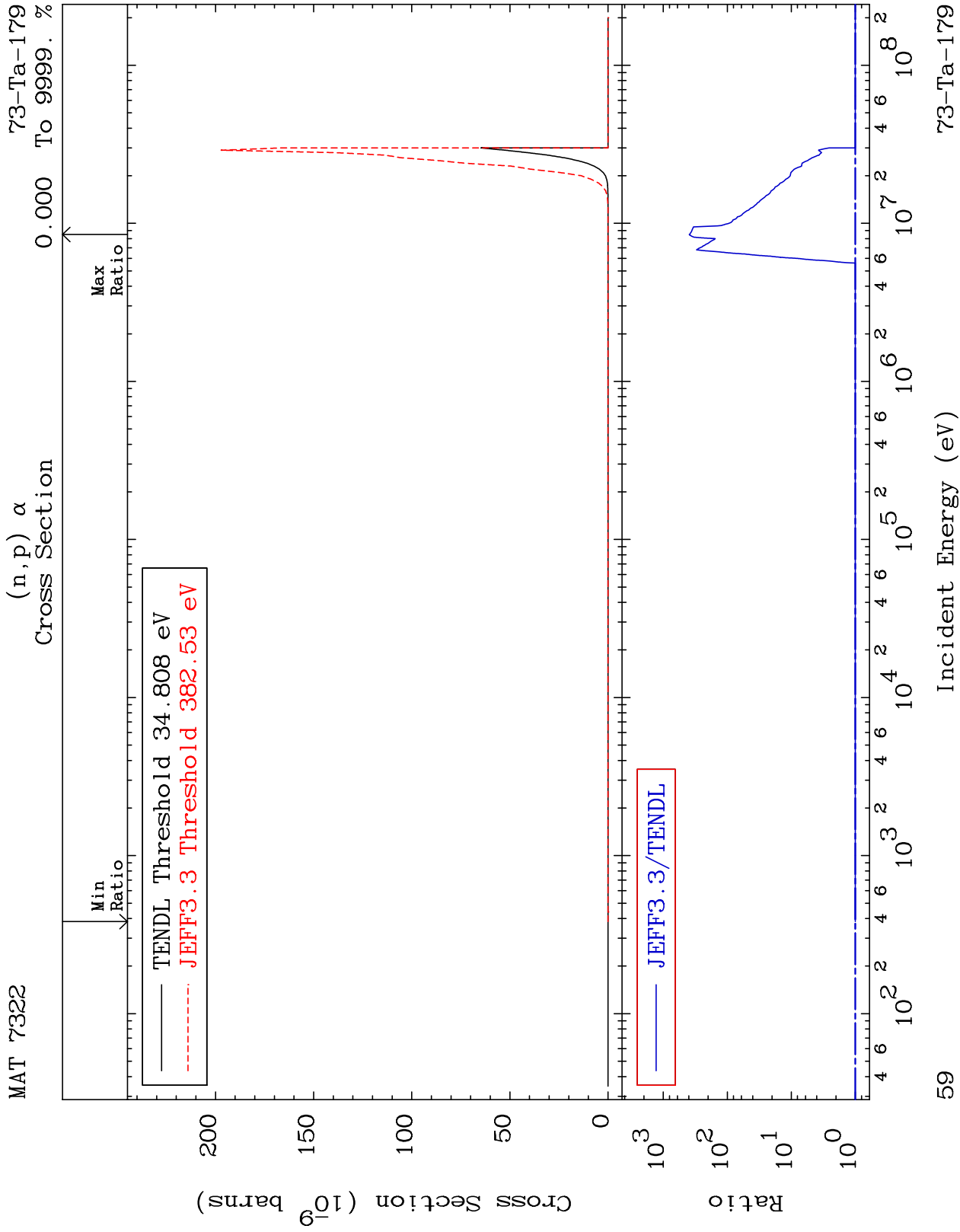
MAT 7322 $(n, 2\alpha)$ Cross Section 73-Ta-179 To 9999. %



57 Incident Energy (eV) 73-Ta-179

MAT 7322 $^{73}\text{Ta-179}$ (n,2p) Cross Section -1.454 To 0.000 %





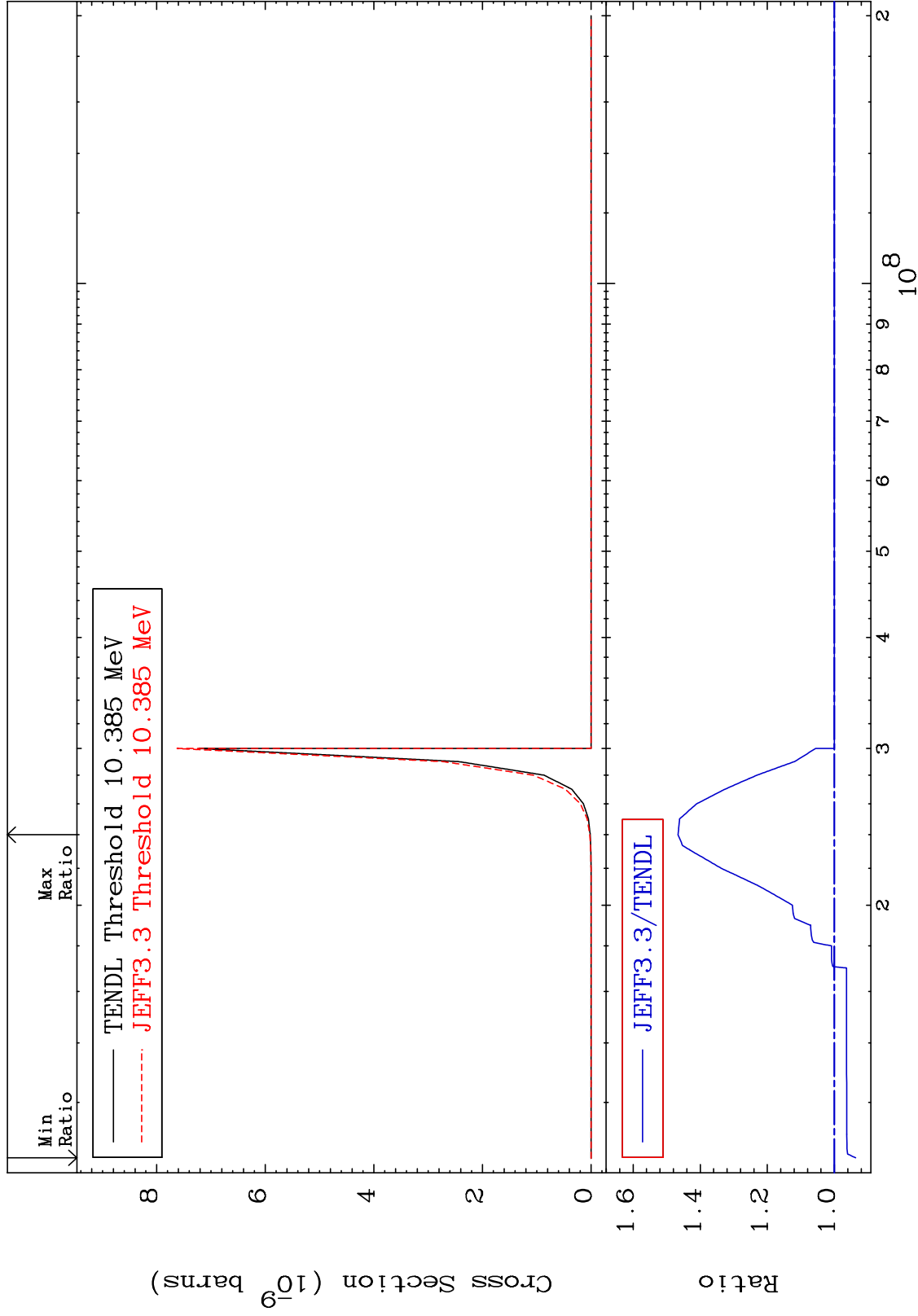
MAT 7322

(n,p) d

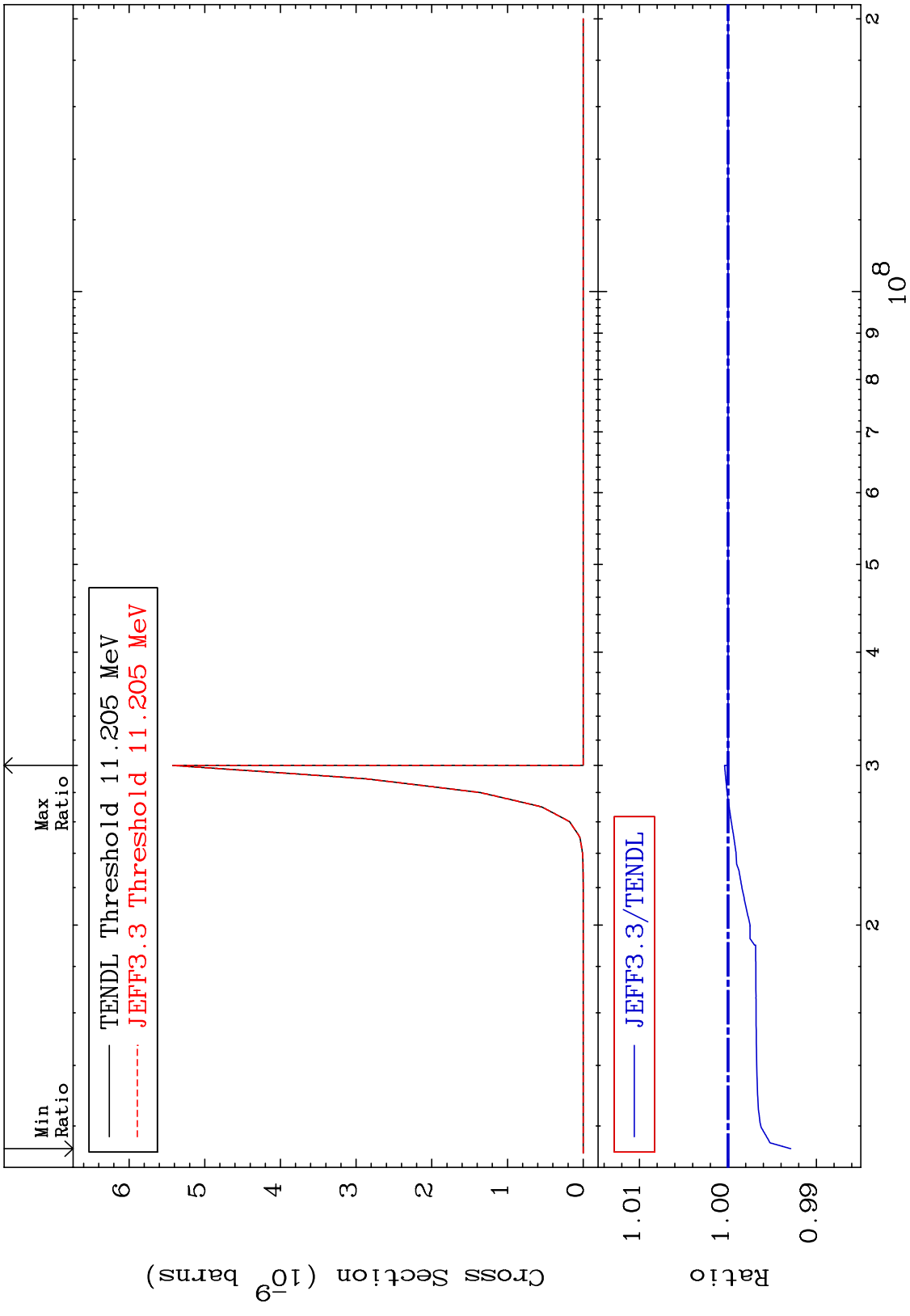
73-Ta-179

Cross Section

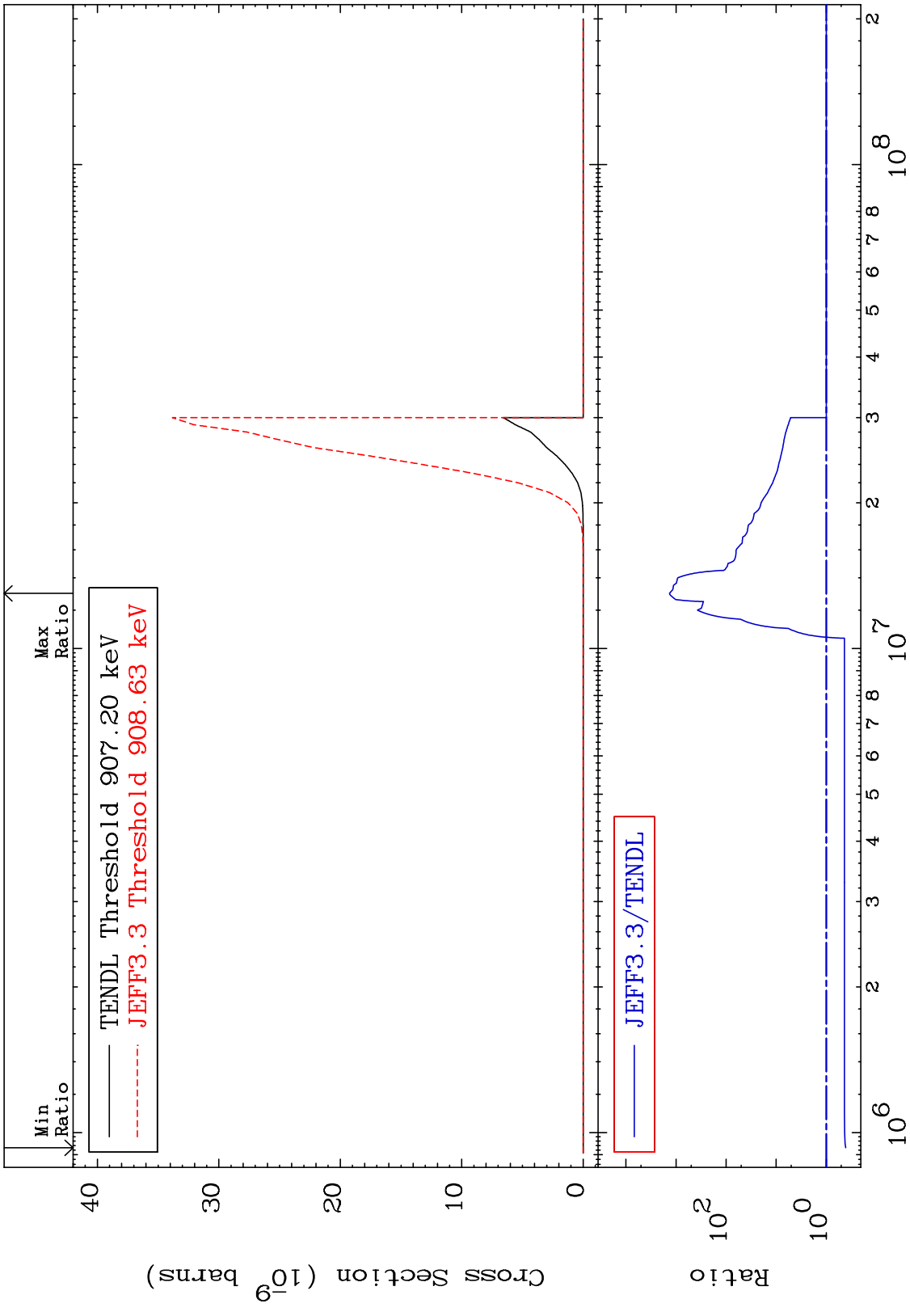
-6.348 To 46.62 %



MAT 7322 (n,p) t 73-Ta-179
 Cross Section -0.709 To 0.038 %



MAT 7322 (n,d) α 73-Ta-179
Cross Section -59.28 To 9999. %

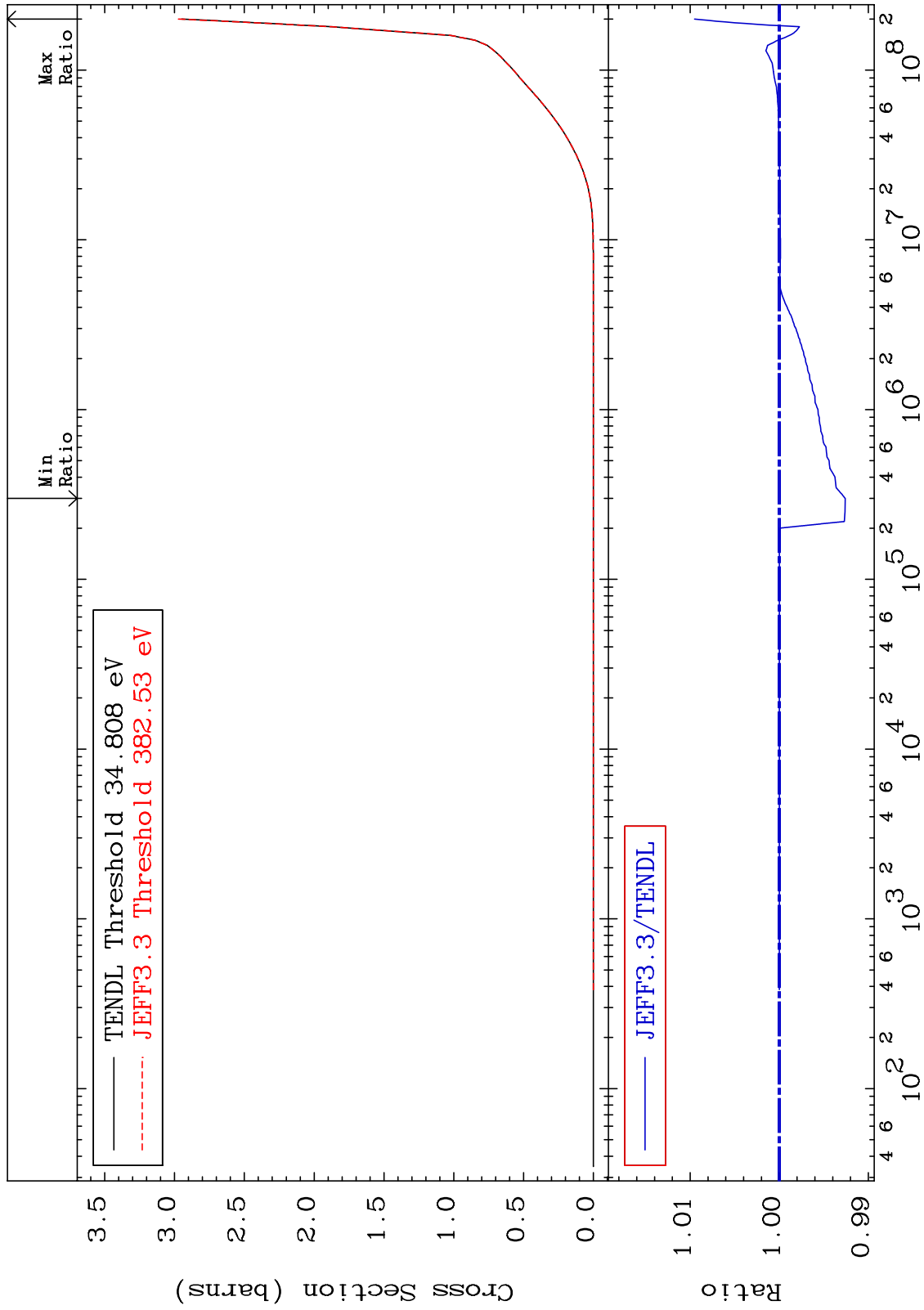


62 Incident Energy (eV) 73-Ta-179

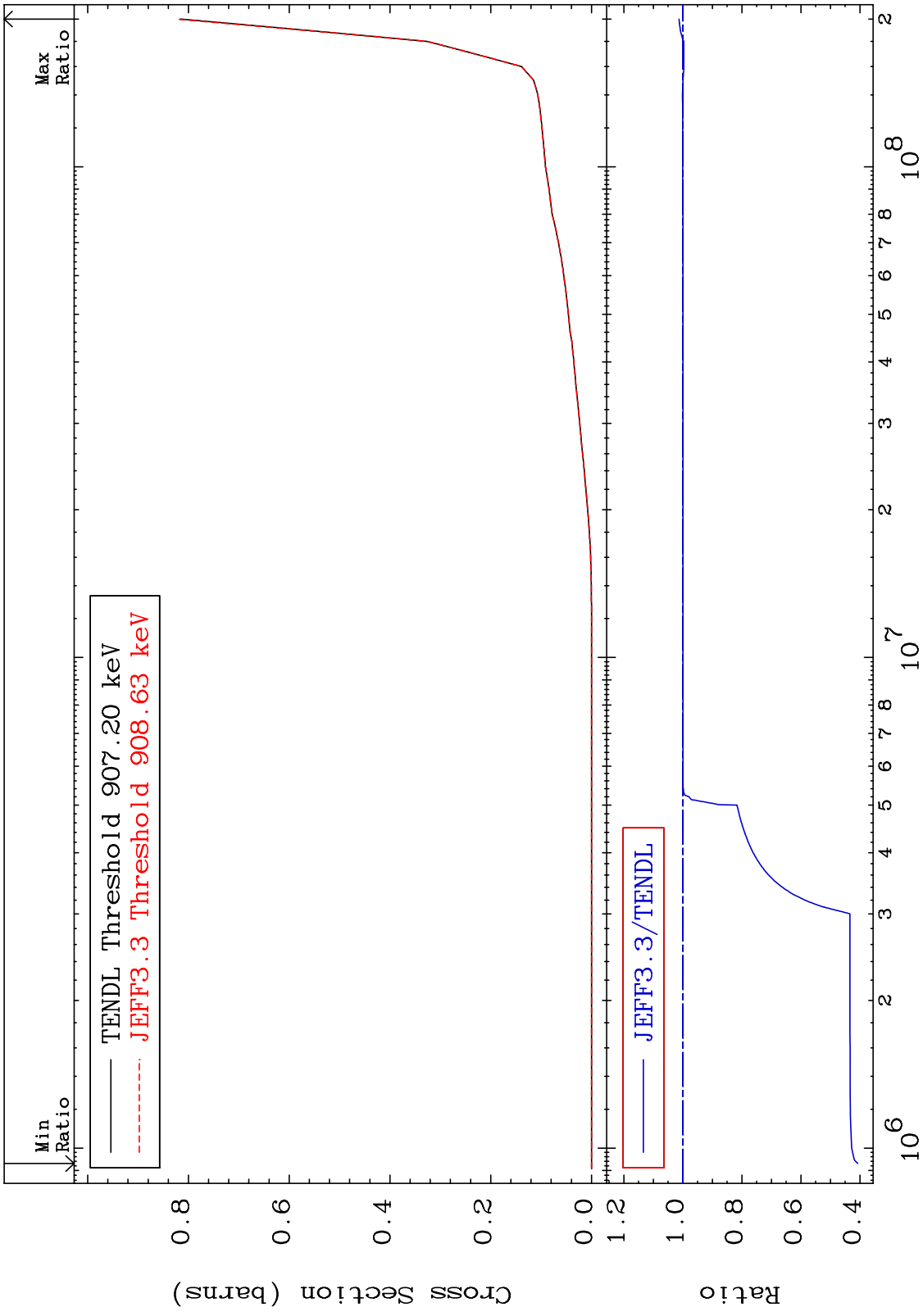
MAT 7322

Hydrogen Production
Cross Section

73-Ta-179
-0.740 To 0.952 %



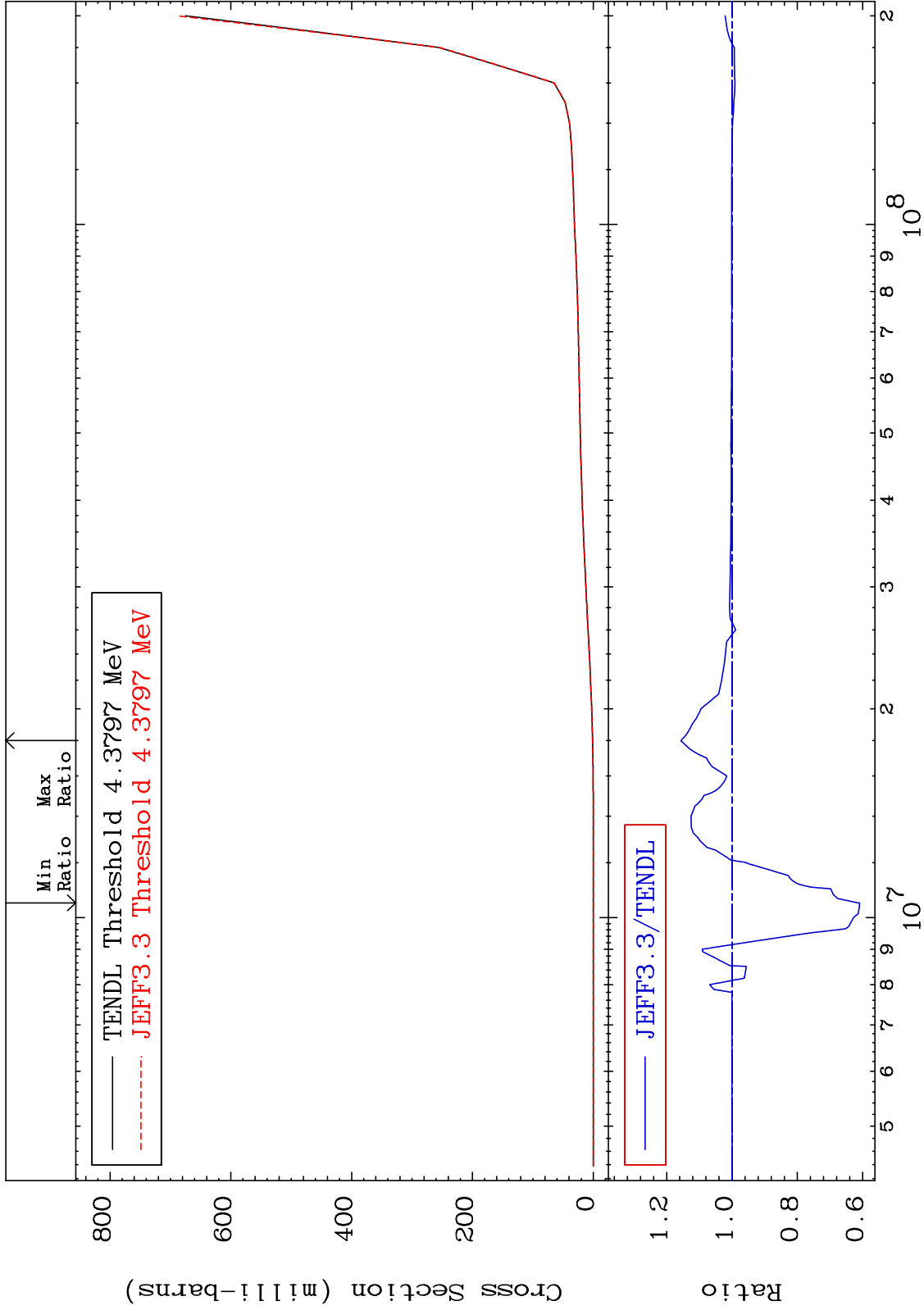
MAT 7322 Deuterium Production Cross Section 73-Ta-179 -59.28 To 1.292 %



MAT 7322

Tritium Production
Cross Section

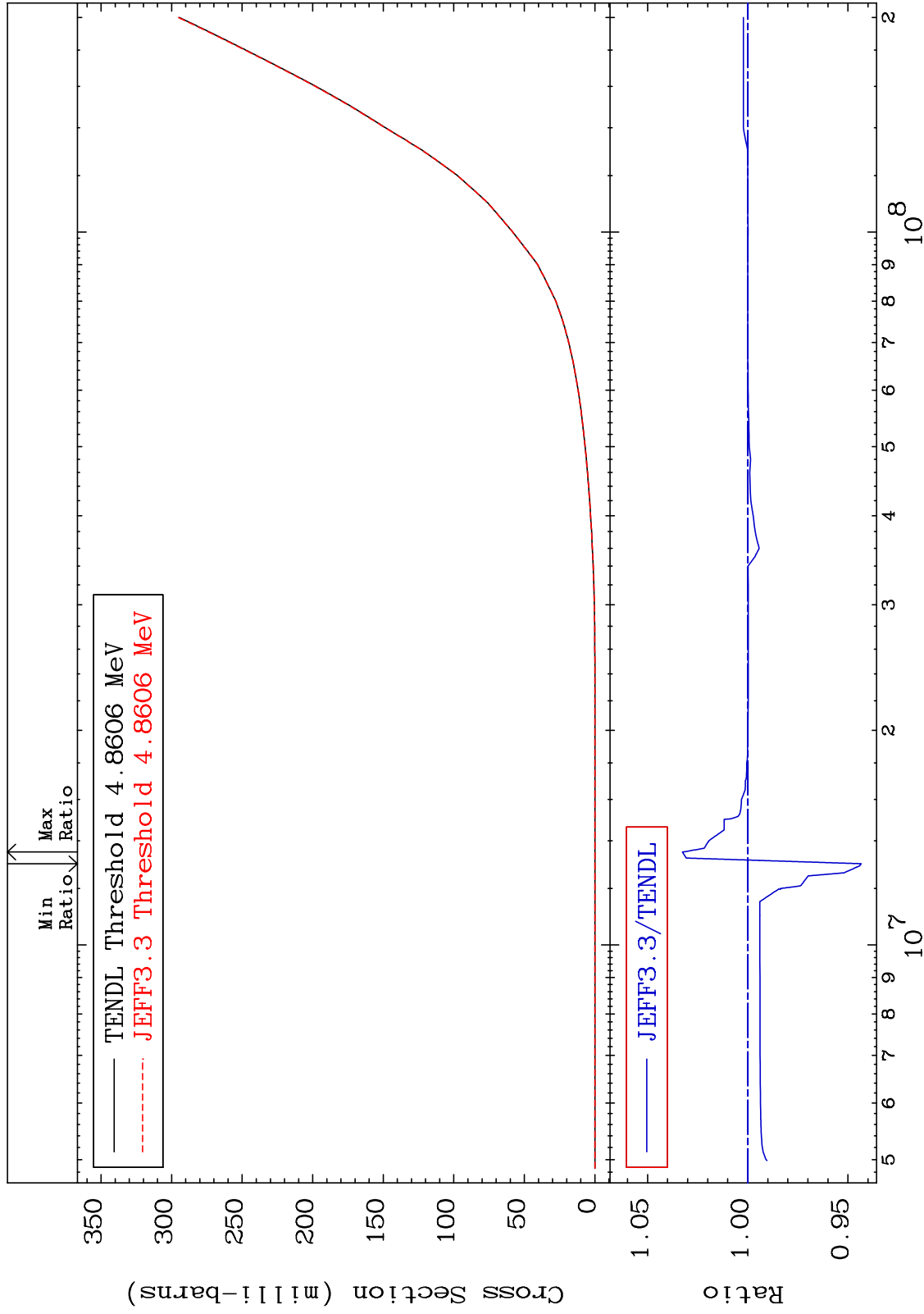
73-Ta-179
-39.05 To 15.67 %



MAT 7322

He-3 Production
Cross Section

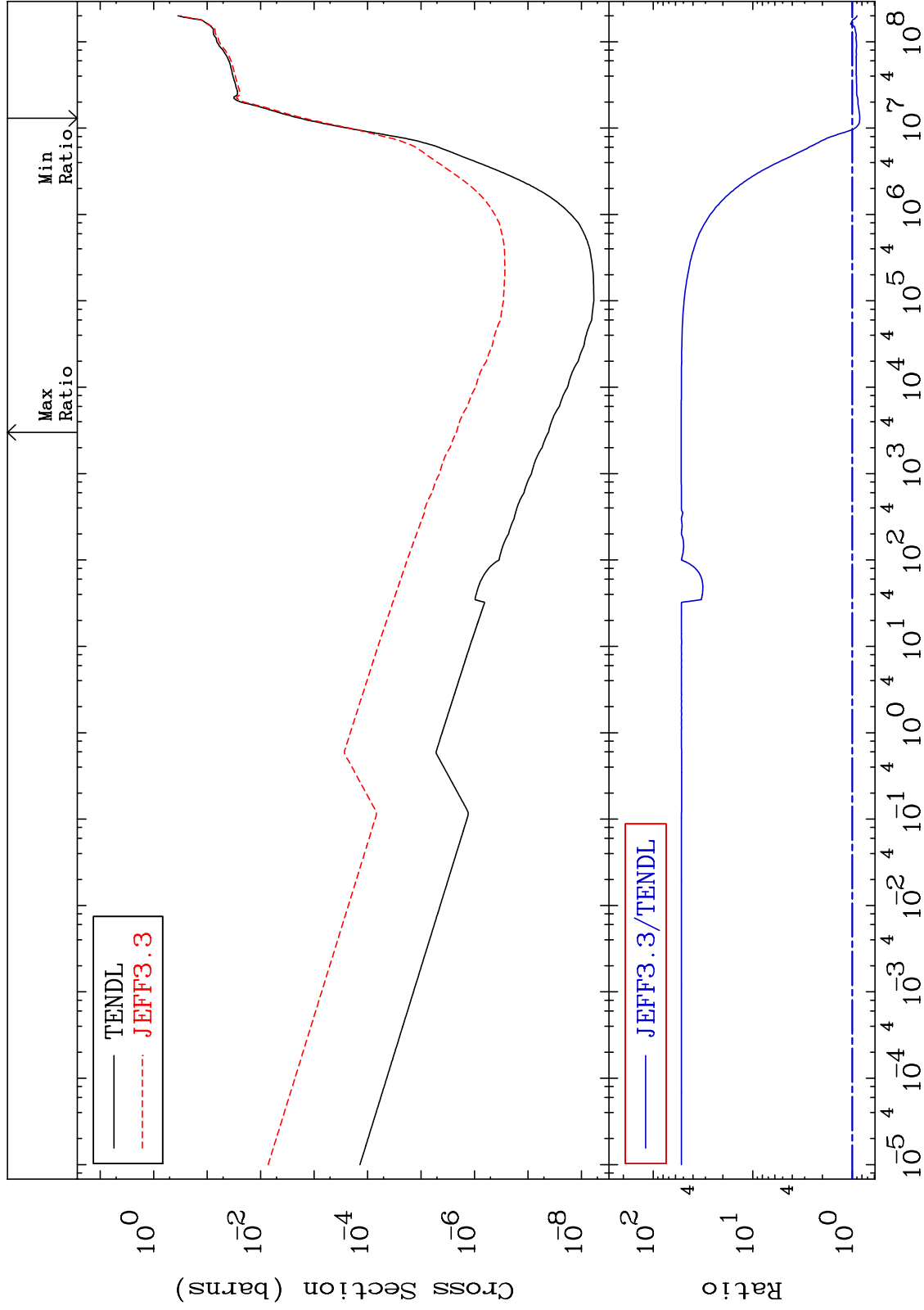
73-Ta-179
-5.663 To 3.259 %



MAT 7322

He-4 Production
Cross Section

73-Ta-179
-16.00 To 5141. %



67

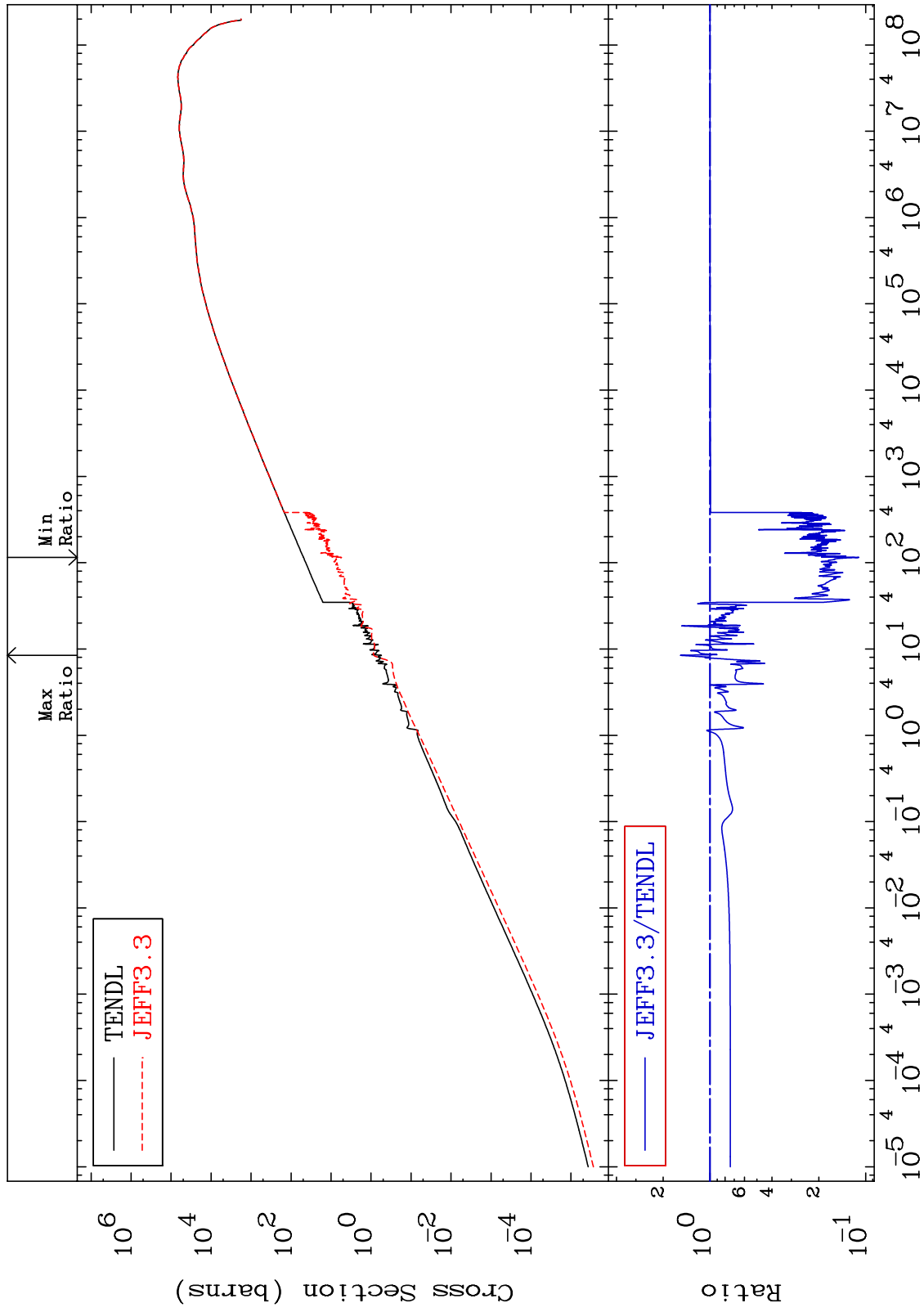
Incident Energy (eV)

73-Ta-179

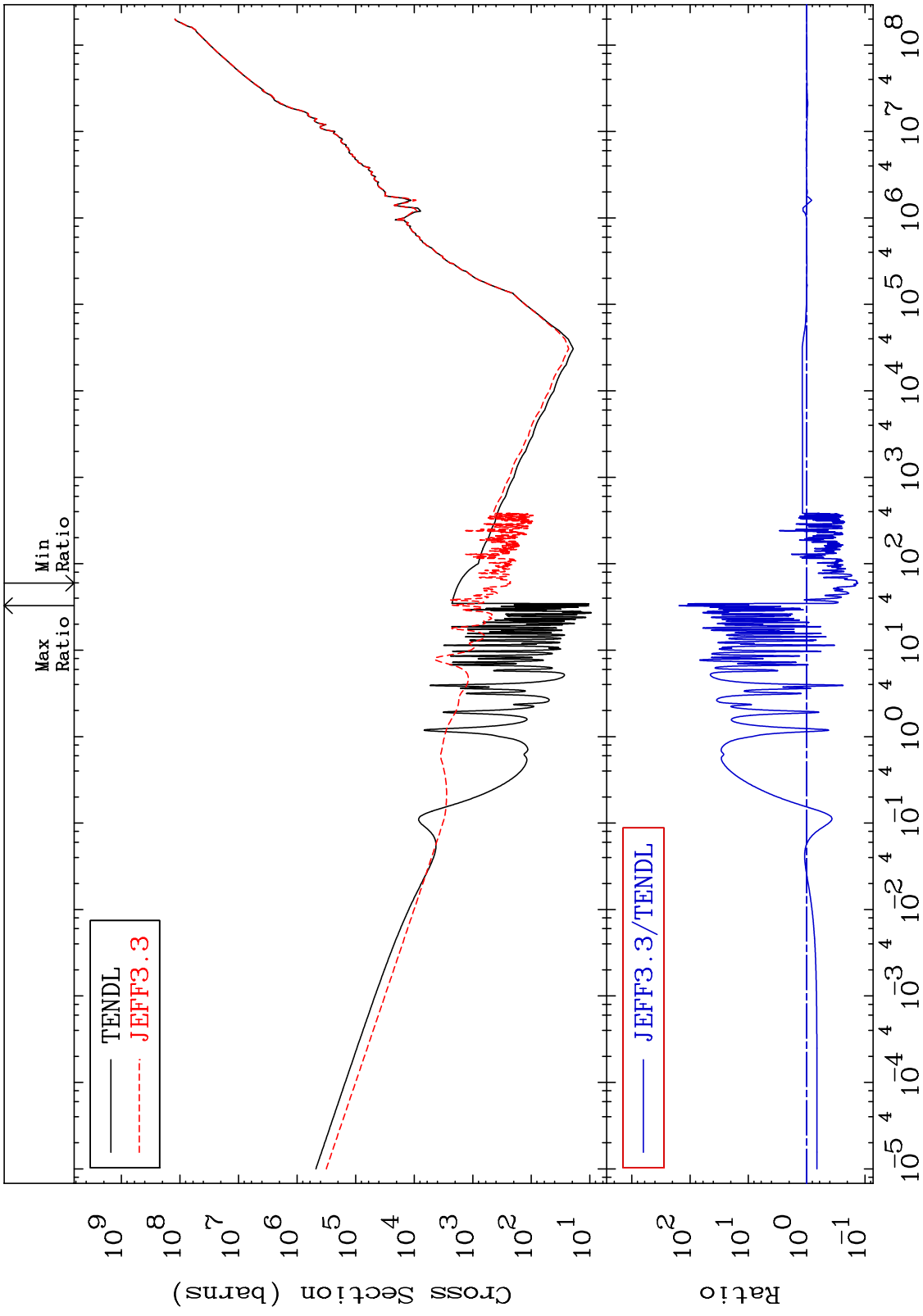
MAT 7322

Kerma elastic
Cross Section

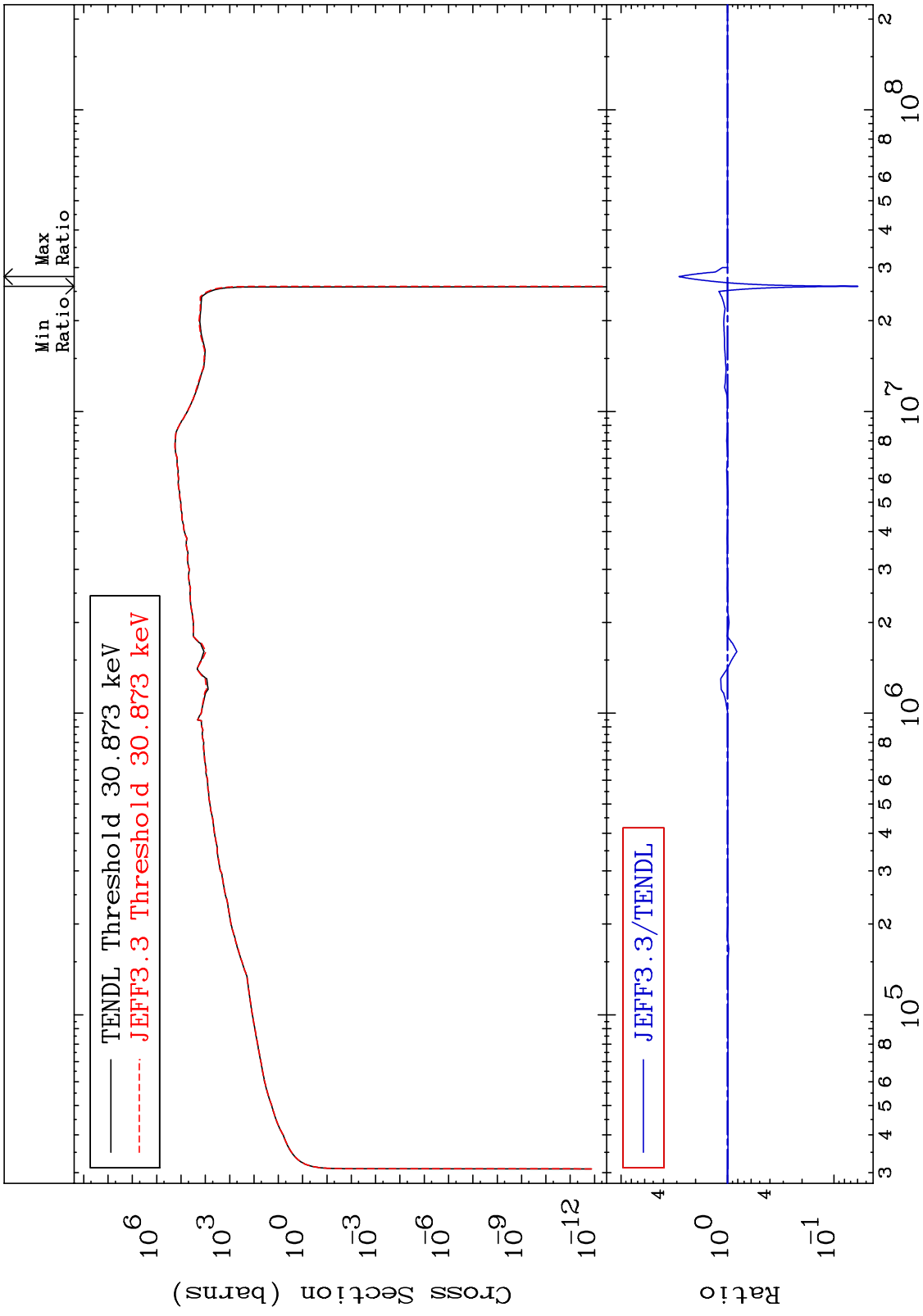
73-Ta-179
-88.97 To 54.50 %



MAT 7322 Kerma non-elastic (all but mt2) 73-Ta-179
 -86.77 To 9999. %
 Cross Section



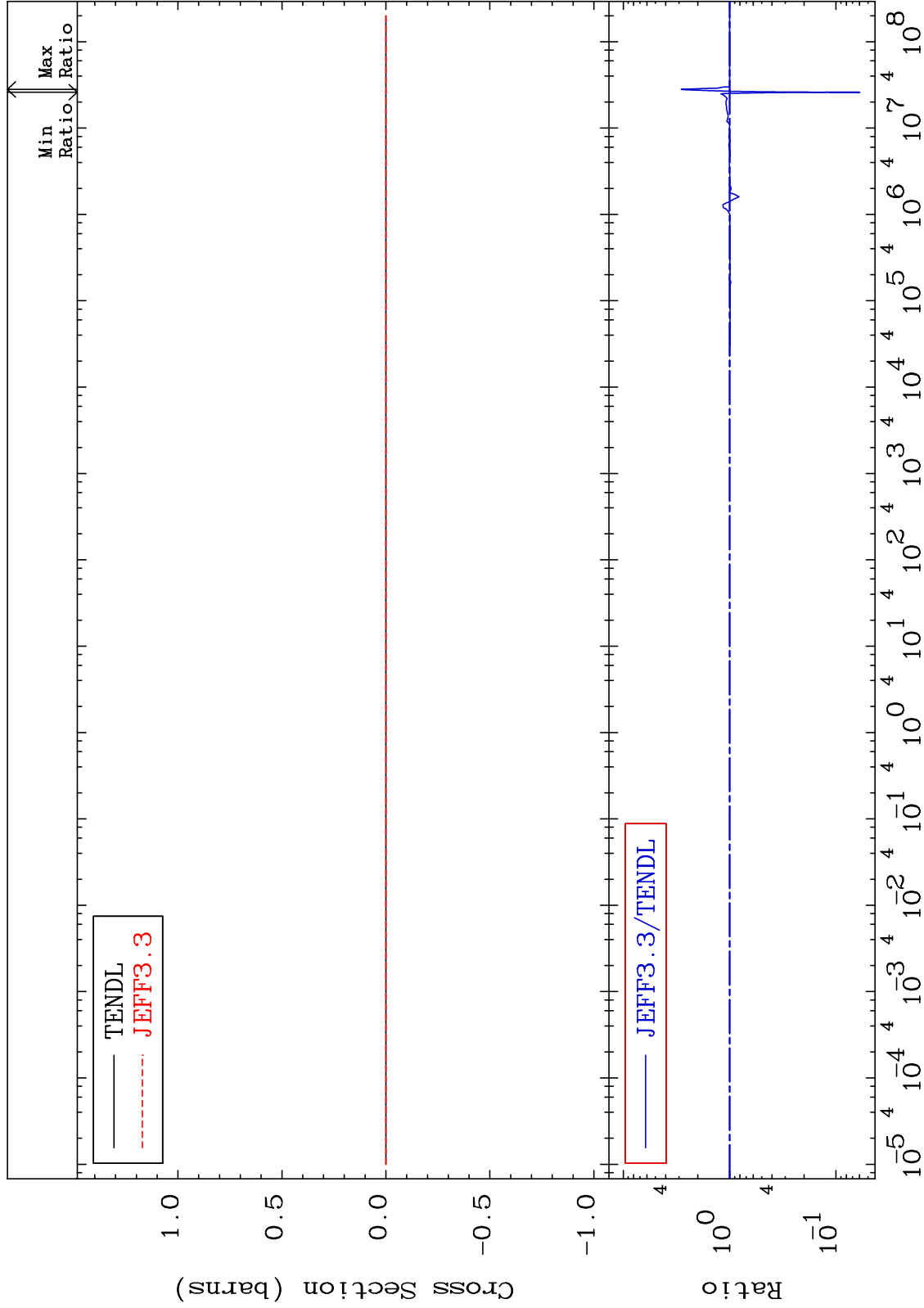
70 Incident Energy (eV) 73-Ta-179



MAT 7322

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

73-Ta-179
-94.02 To 185.5 %



72

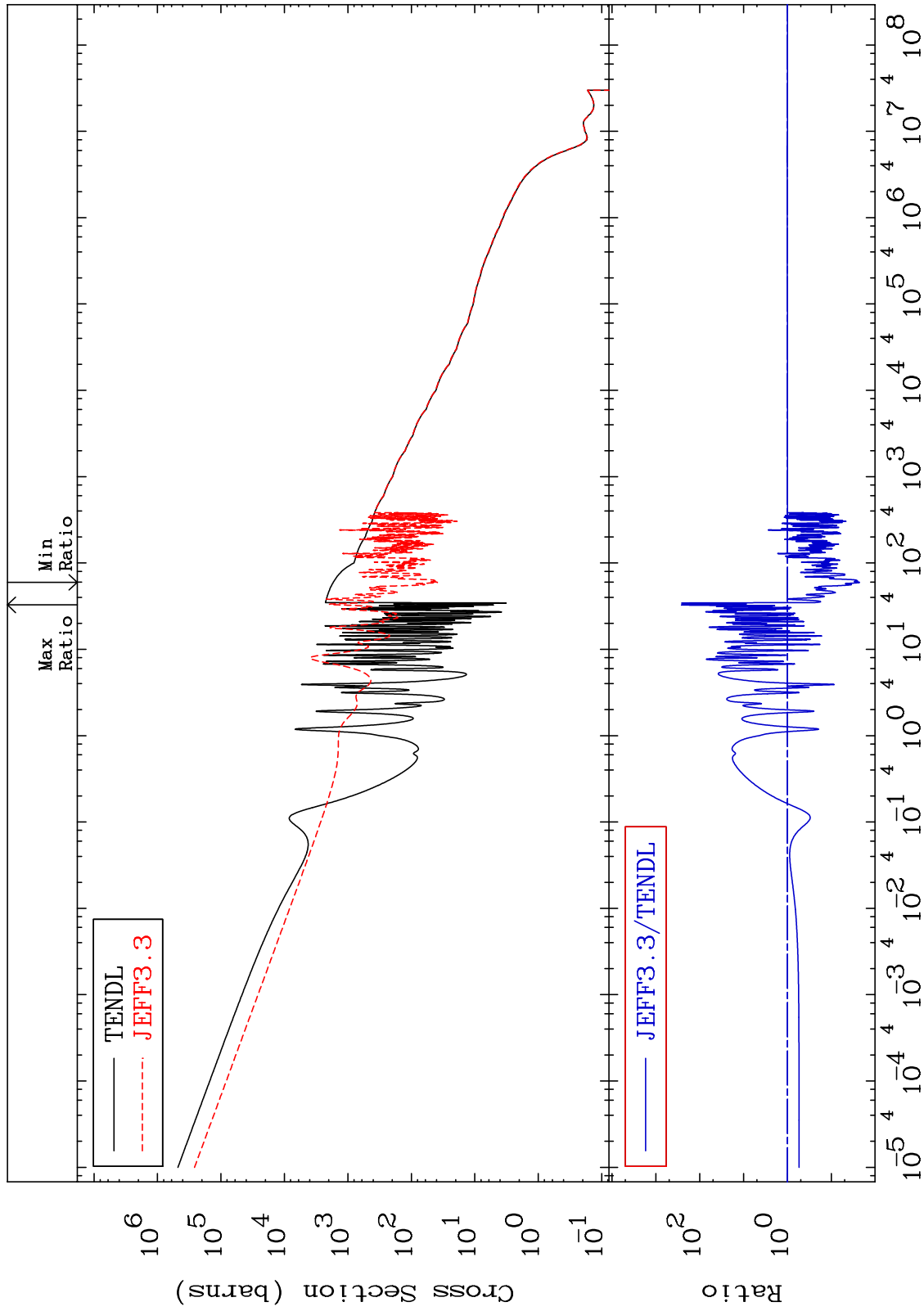
Incident Energy (eV)

73-Ta-179

MAT 7322

Kerma capture (mt102)
Cross Section

73-Ta-179
-97.74 To 9999. %



73

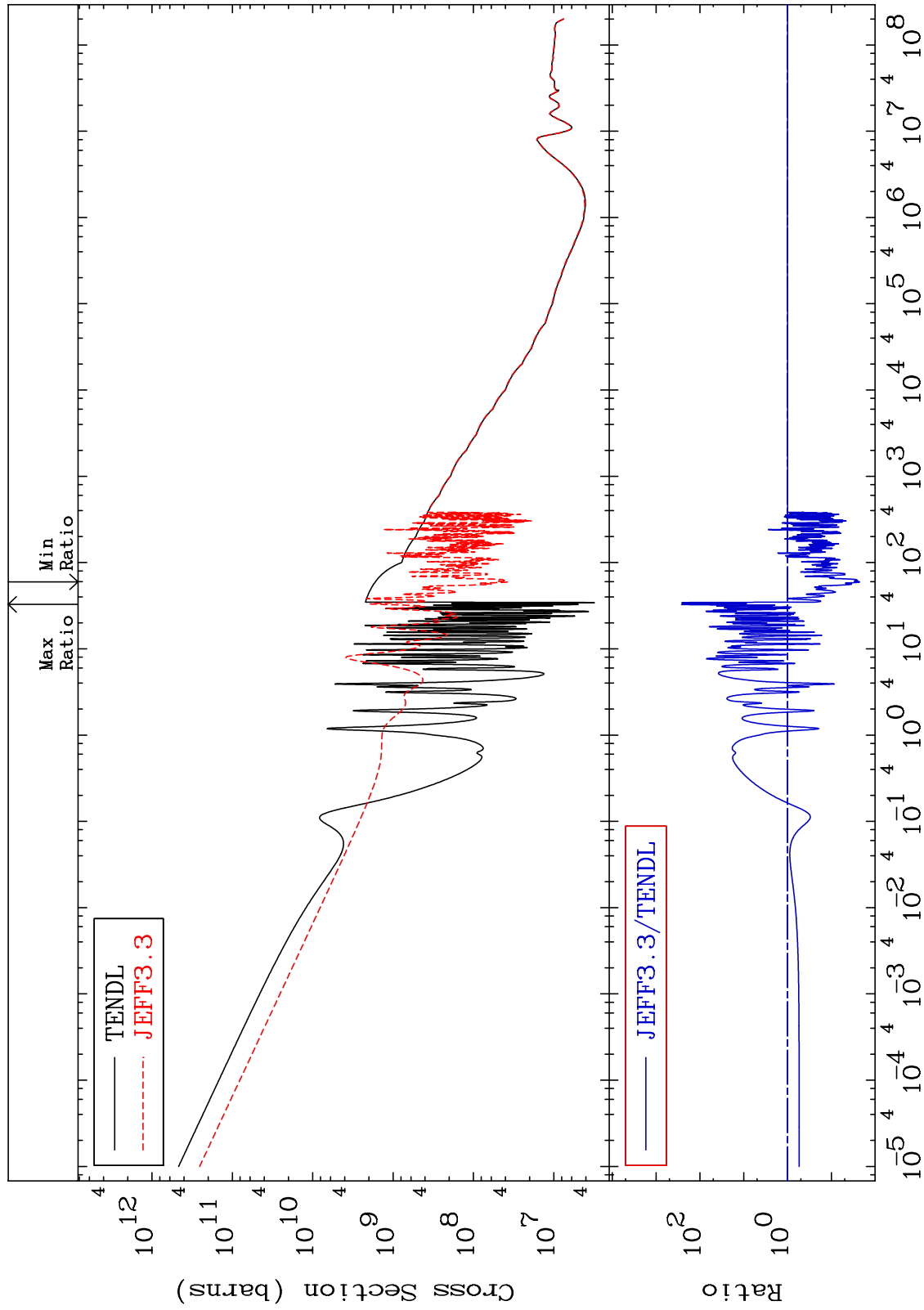
Incident Energy (eV)

73-Ta-179

MAT 7322

Total photon (eV-barns)
Cross Section

73-Ta-179
-97.74 To 9999. %

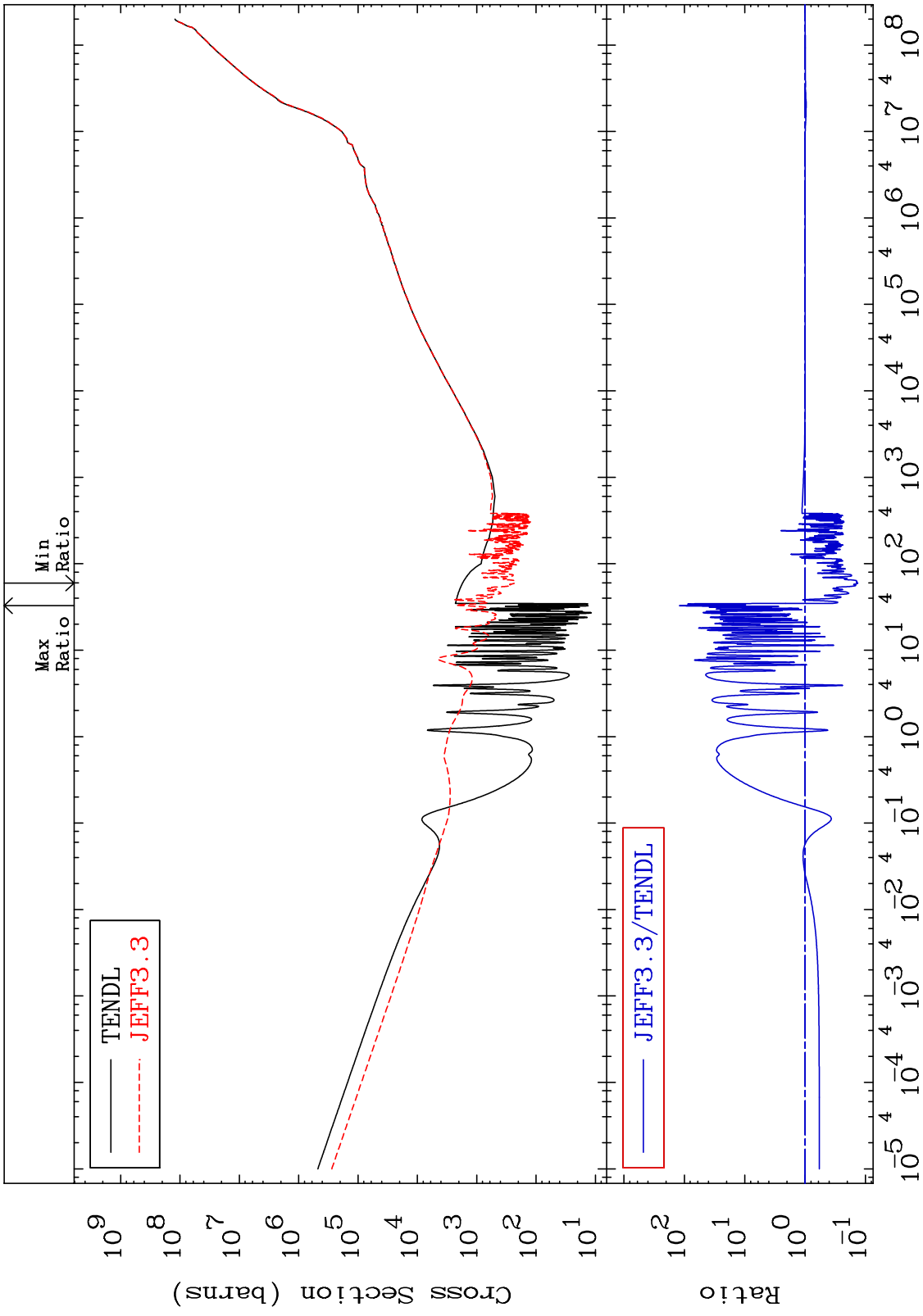


74

Incident Energy (eV)

73-Ta-179

MAT 7322 Total kinematic kerma (high limit) 73-Ta-179
 Cross Section -86.61 To 9999. %



75 Incident Energy (eV) 73-Ta-179

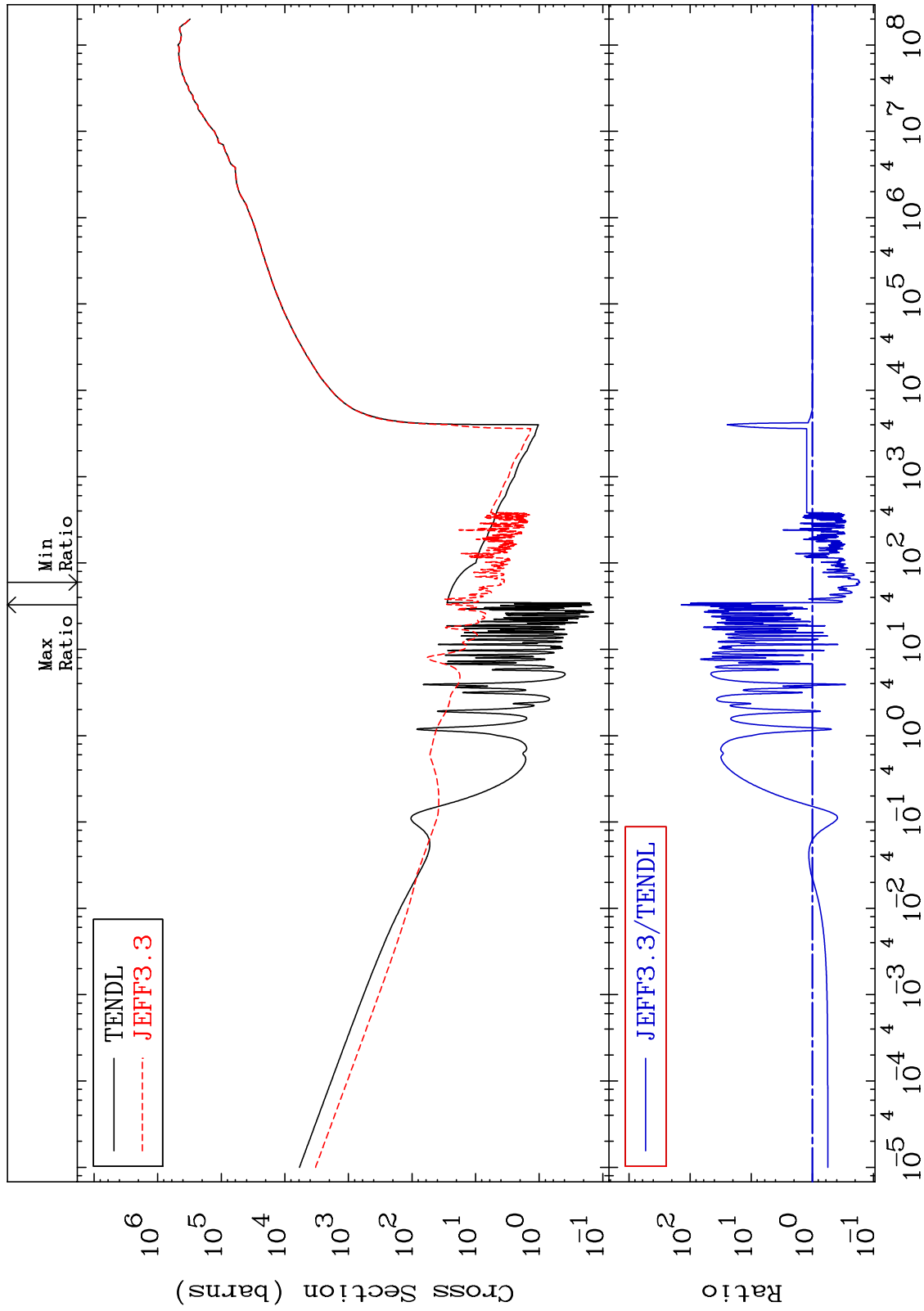
MAT 7322

Dpa total (eV-barns)

73-Ta-179

-83.22 To 9999. %

Cross Section

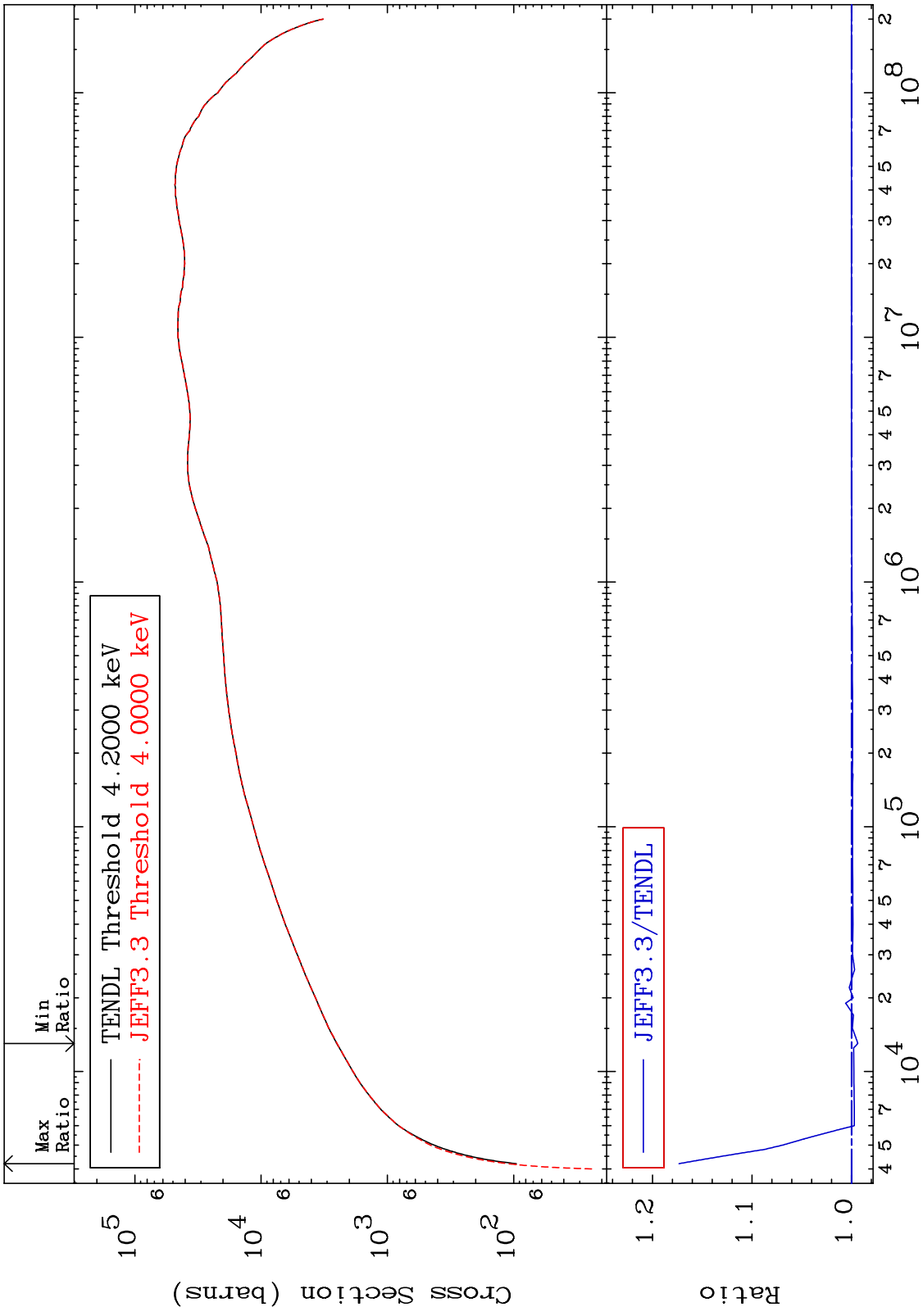


76

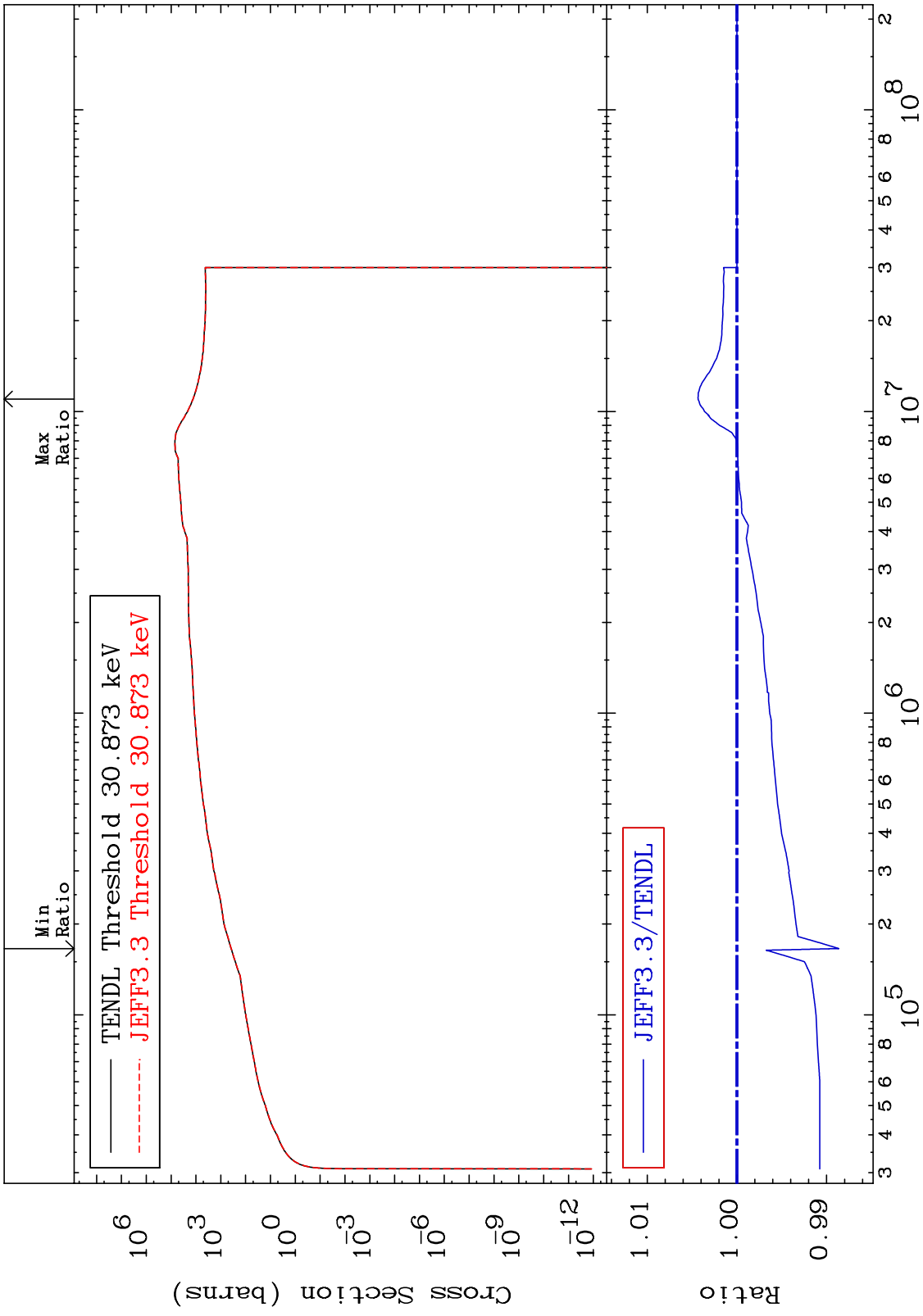
Incident Energy (eV)

73-Ta-179

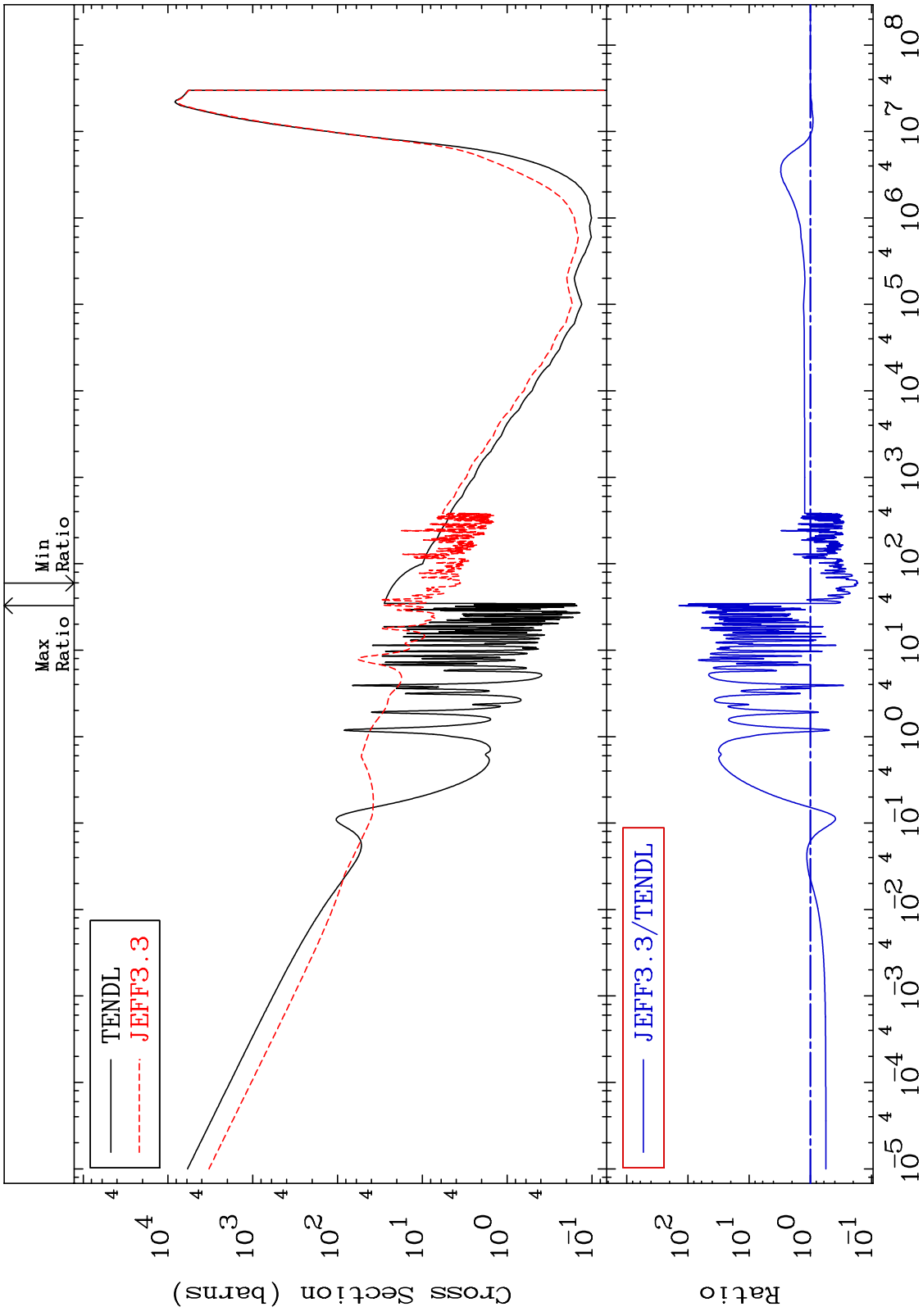
MAT 7322 73-Ta-179
 Dpa elastic (mt2) -0.634 To 17.33 %
 Cross Section



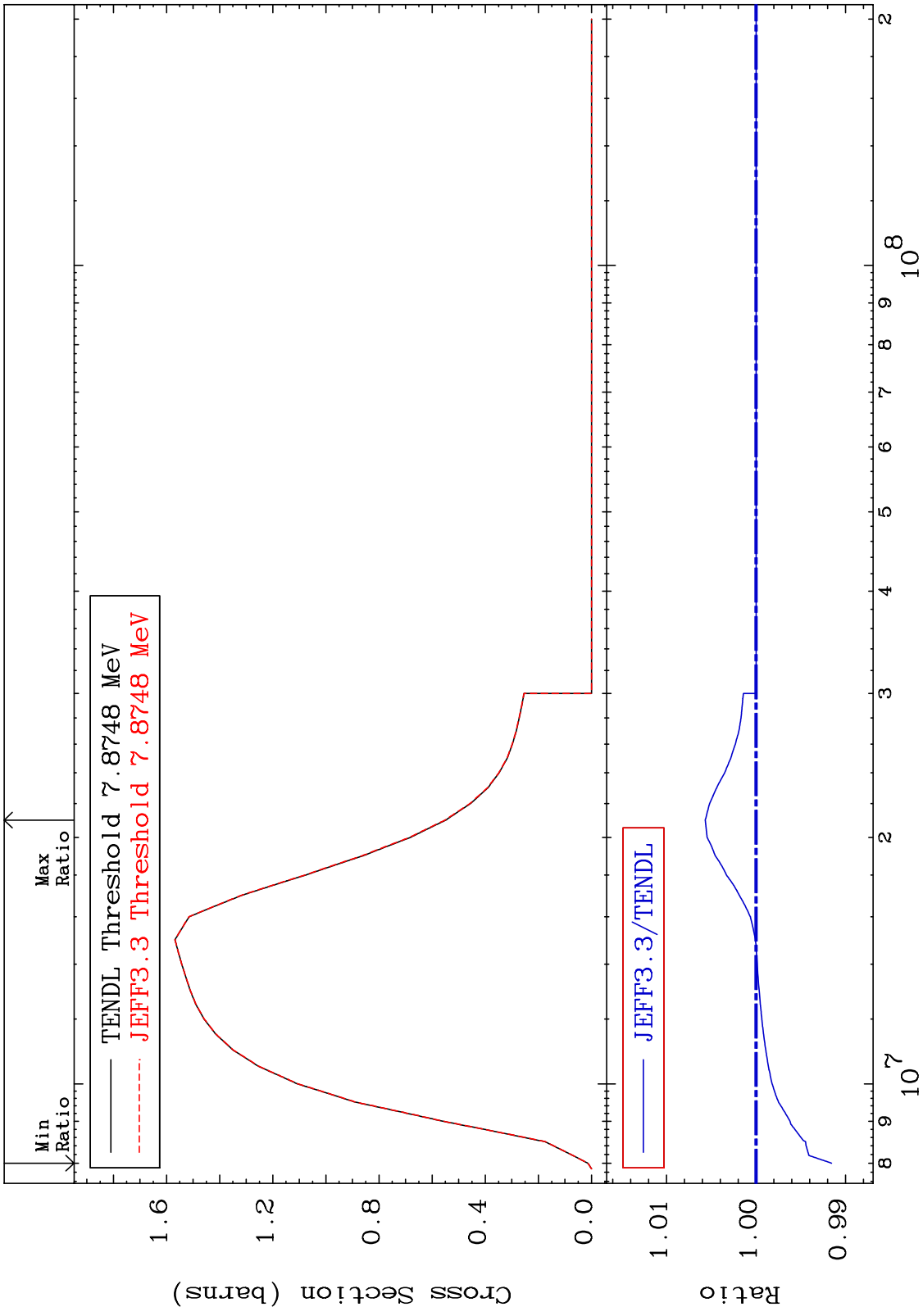
MAT 7322 Dpa inelastic (mt51-91) 73-Ta-179
 Cross Section -1.136 To 0.434 %



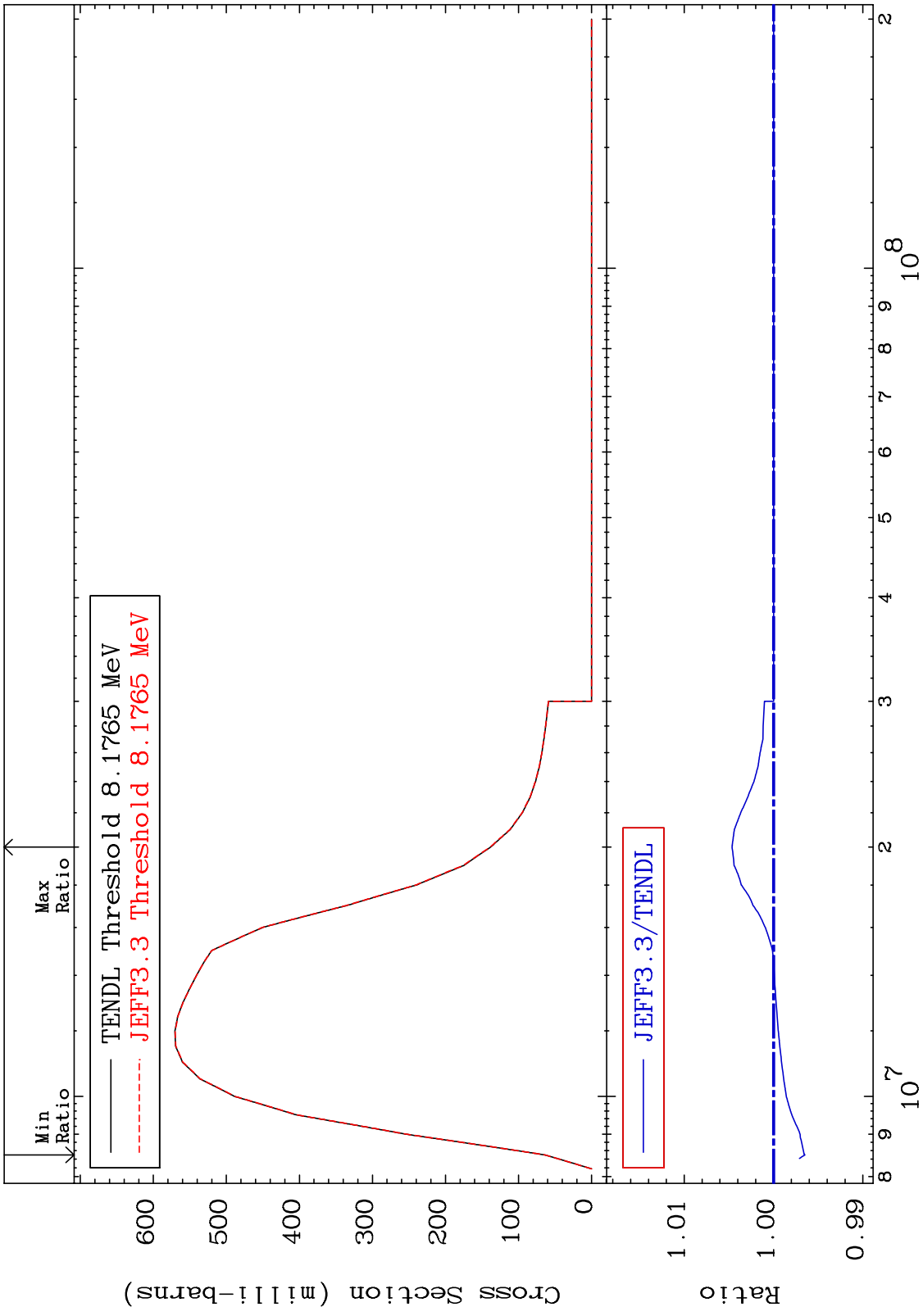
MAT 7322 Dpa disappearance (mt102 -120) 73-Ta-179
 Cross Section -83.22 To 9999. %



MAT 7322 (n,2n):73-Ta-178g 73-Ta-179
 Radionuclide Production Cross Section -0.844 To 0.567 %

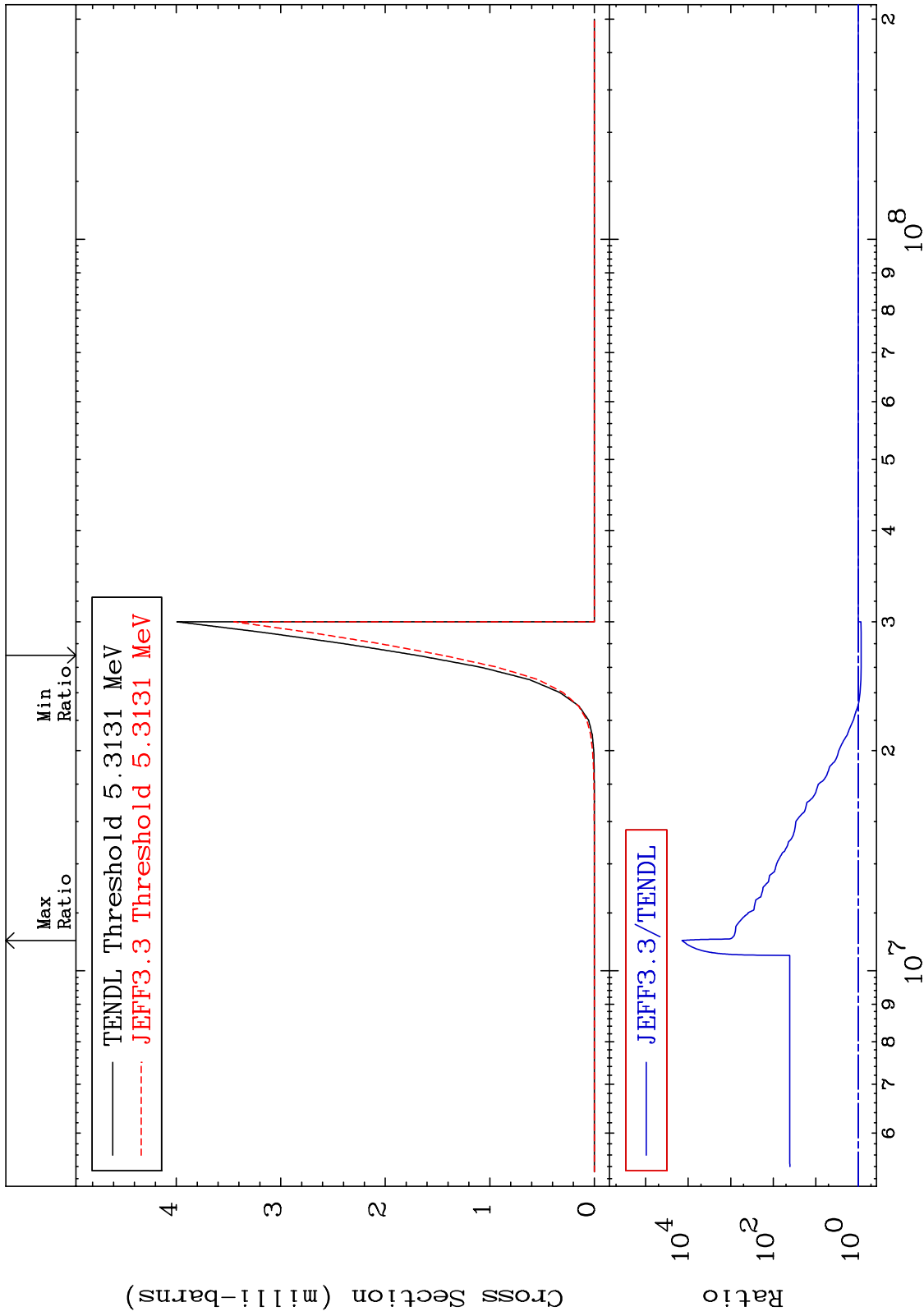


MAT 7322 (n,2n):73-Ta-178m1 73-Ta-179
 Radionuclide Production Cross Section -0.351 To 0.465 %



MAT 7322

(n,2n) α : 71-Lu-174g 73-Ta-179
Radionuclide Production Cross Section -14.59 To 9999. %

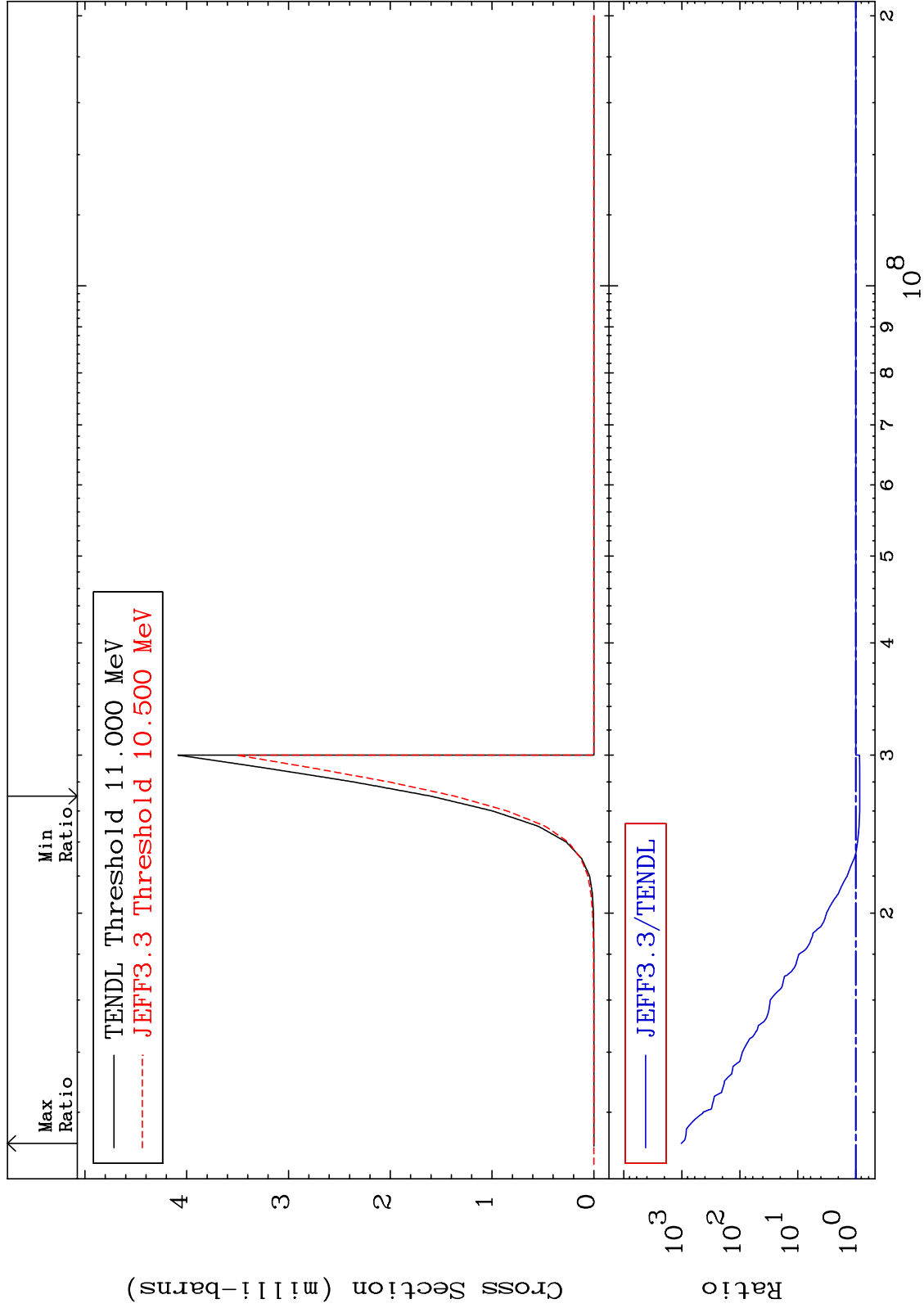


MAT 7322

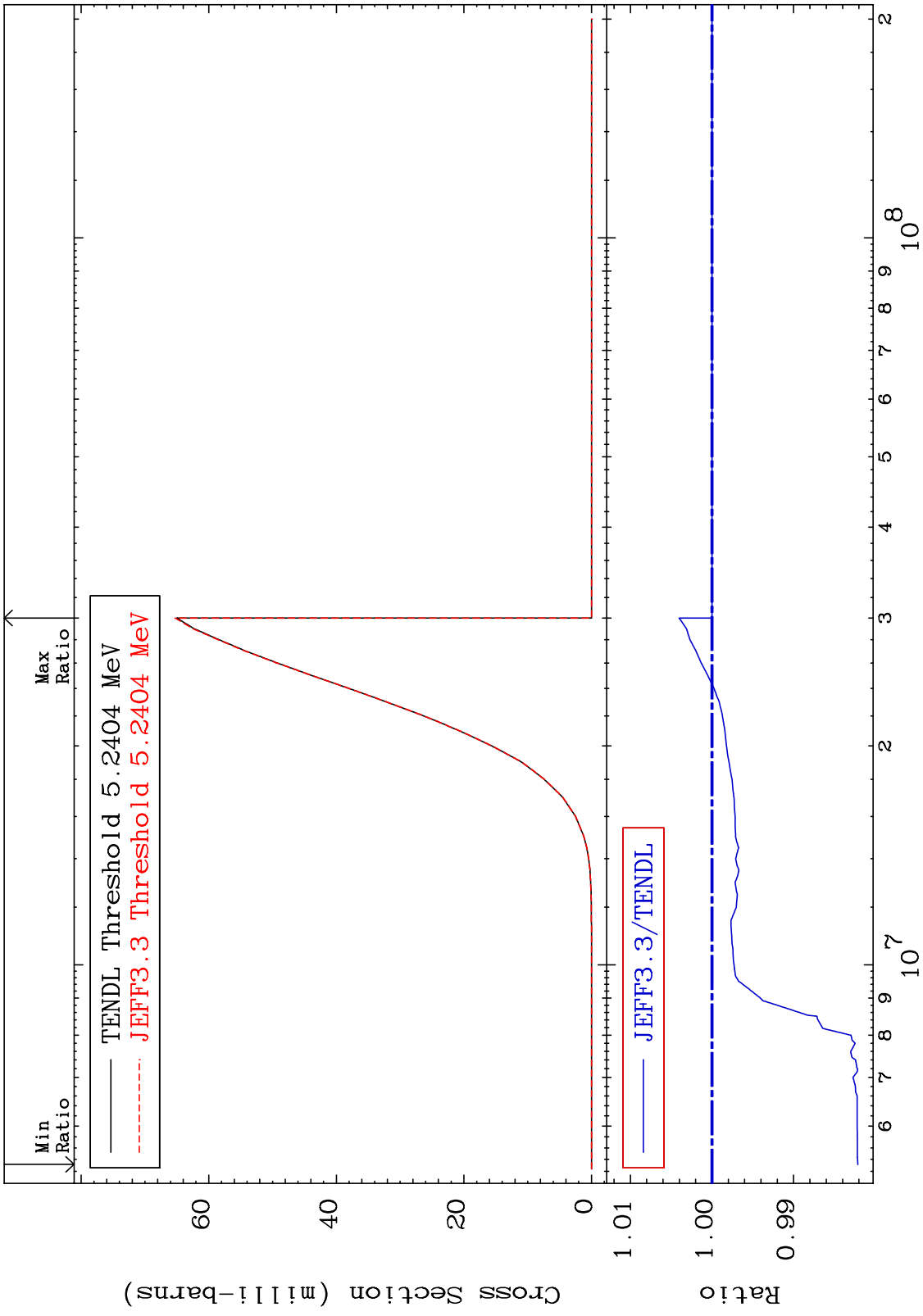
(n,2n) α :71-Lu-174m3

73-Ta-179

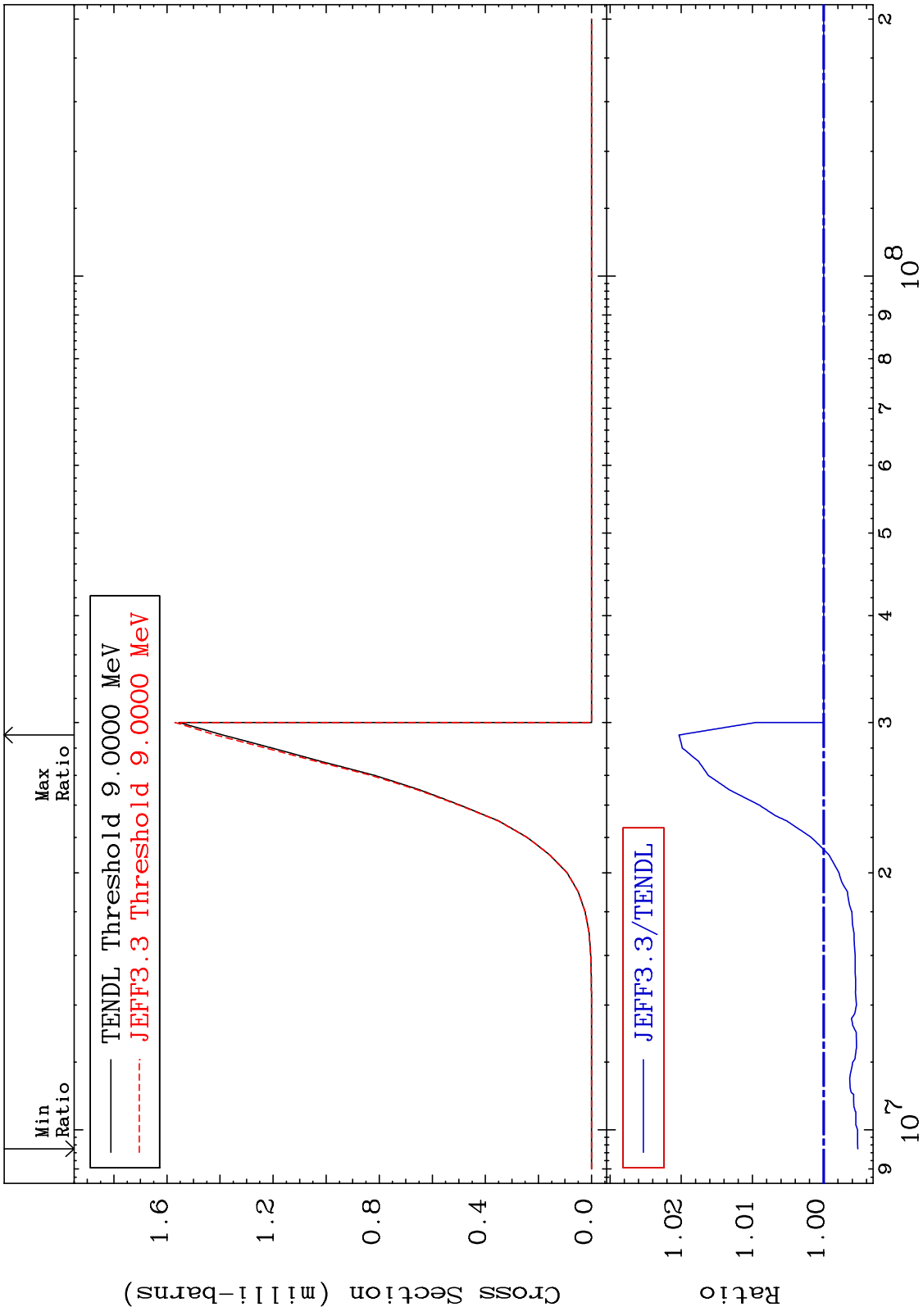
Radionuclide Production Cross Section -14.79 To 9999. %



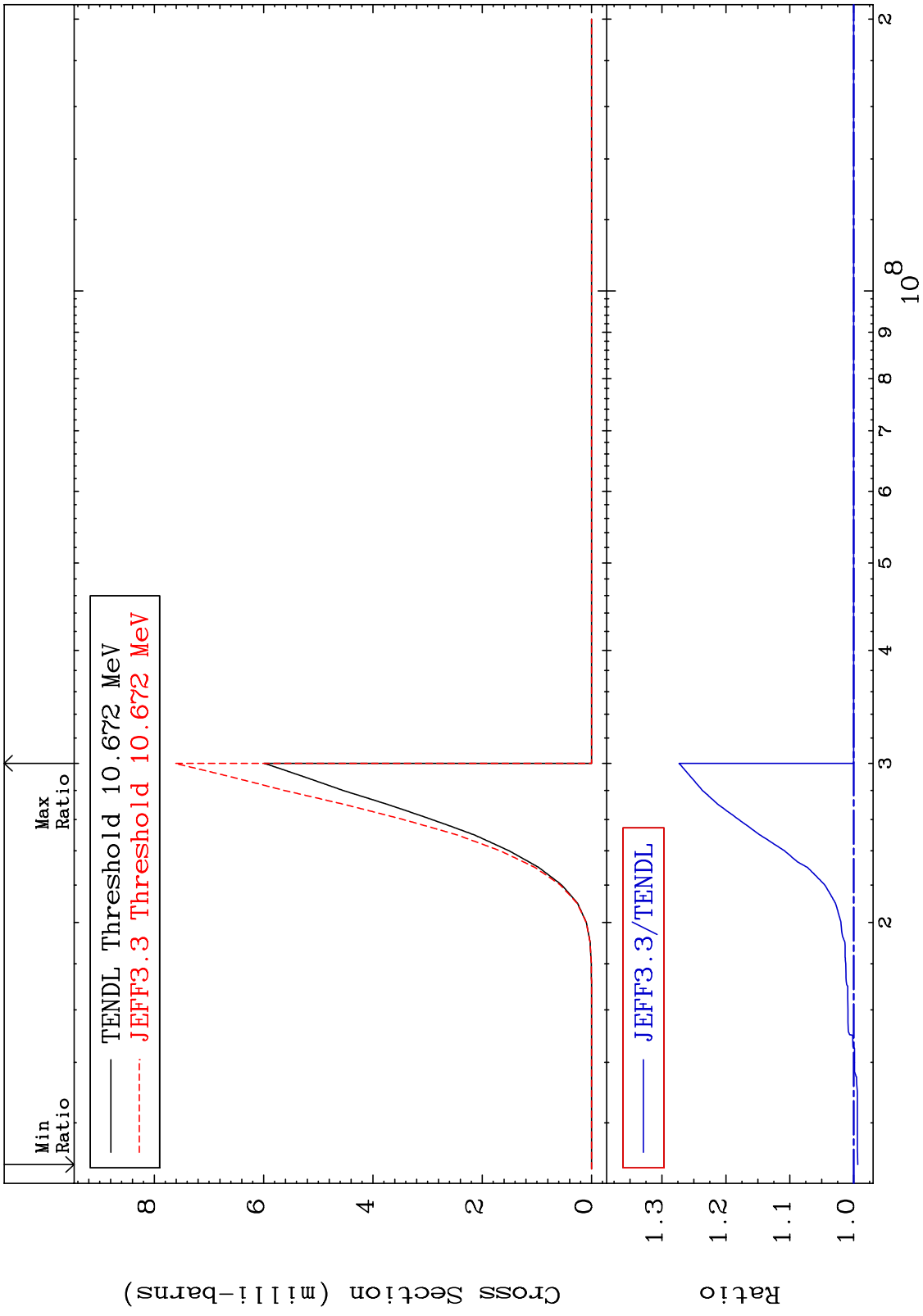
MAT 7322 (n, n') p: 72-Hf-178g 73-Ta-179
 Radionuclide Production Cross Section -1.787 To 0.404 %



MAT 7322 (n,n') p:72-Hf-178m5 73-Ta-179
 Radionuclide Production Cross Section -0.479 To 2.031 %



MAT 7322 (n, n') d: 72-Hf-177g 73-Ta-179
 Radionuclide Production Cross Section -0.649 To 27.33 %

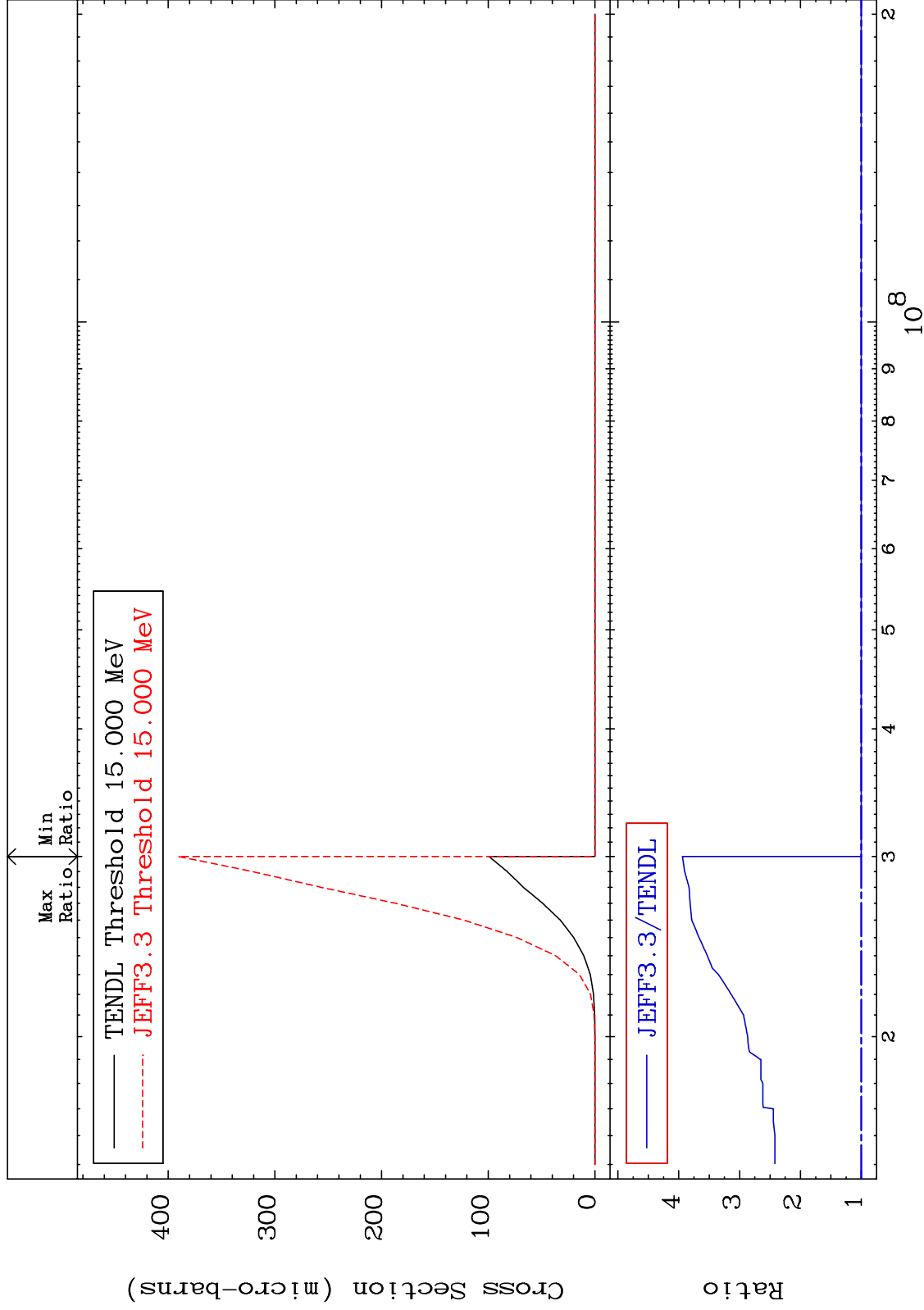


MAT 7322

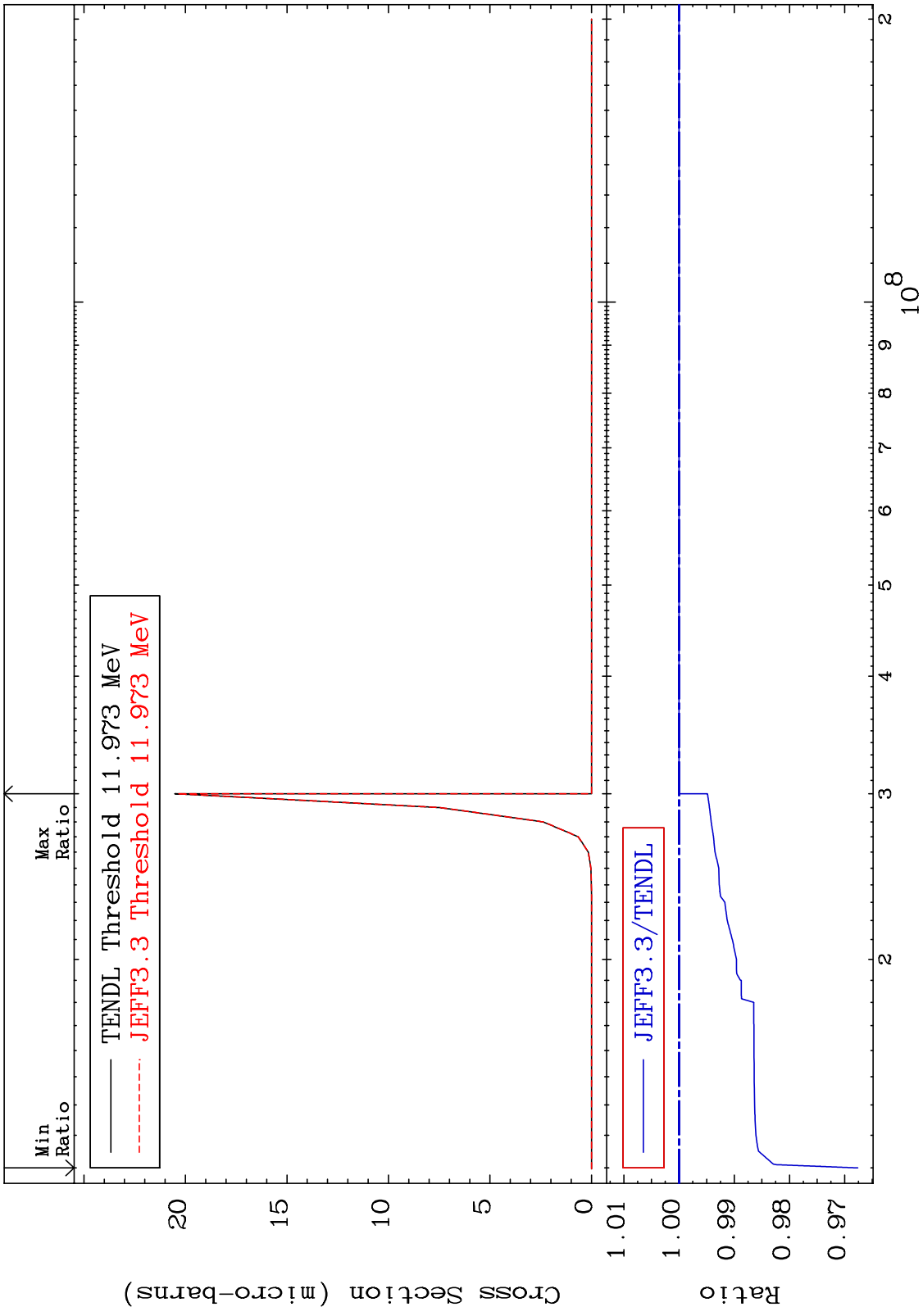
(n, n') d:72-Hf-177m5

73-Ta-179

Radionuclide Production Cross Section 0.000 To 293.9 %



MAT 7322 (n, n') He-3:71-Lu-176g 73-Ta-179
 Radionuclide Production Cross Section -3.238 To 0.000 %

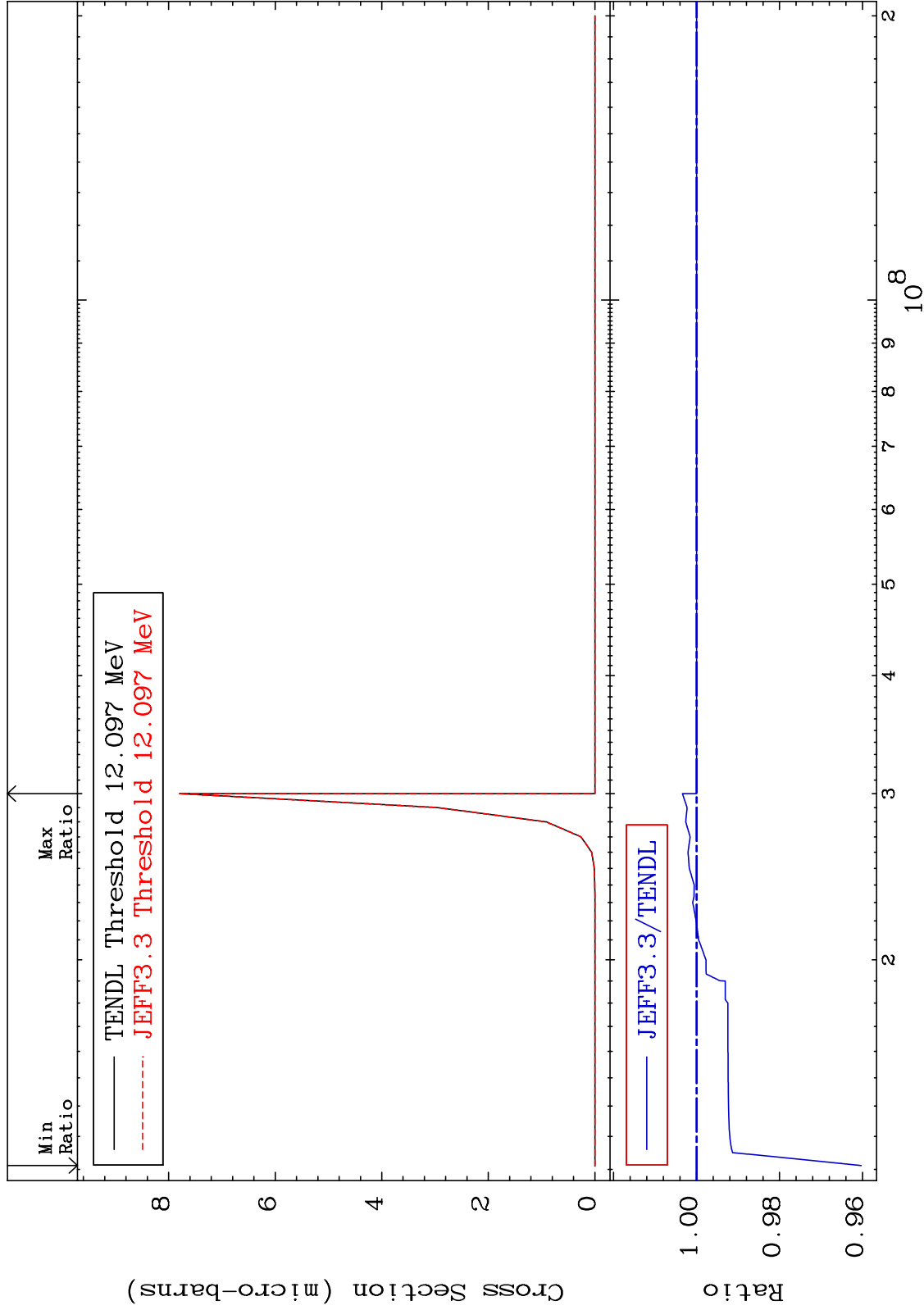


MAT 7322

(n, n') He-3:71-Lu-176m1

73-Ta-179

Radionuclide Production Cross Section -3.970 To 0.341 %

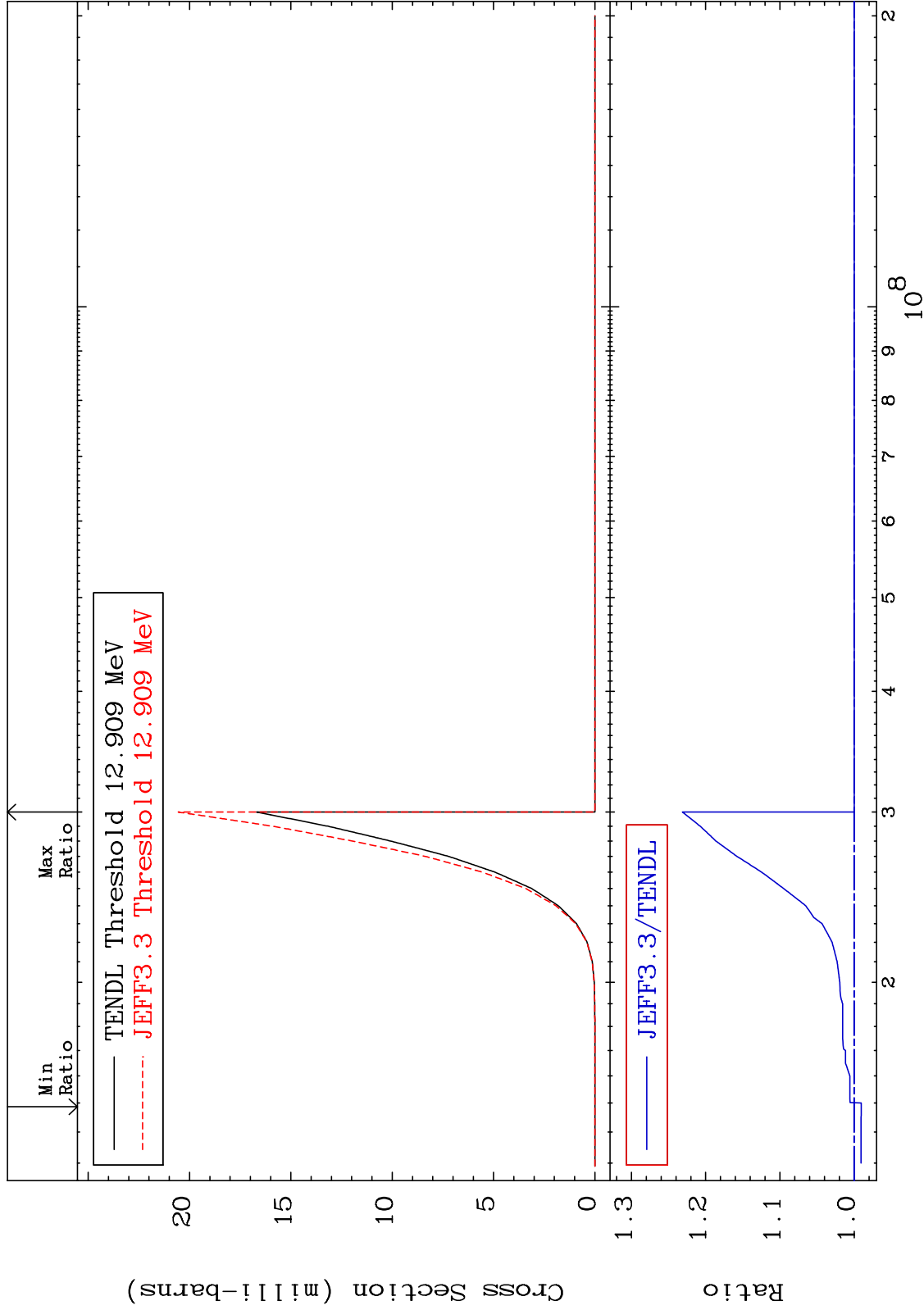


MAT 7322

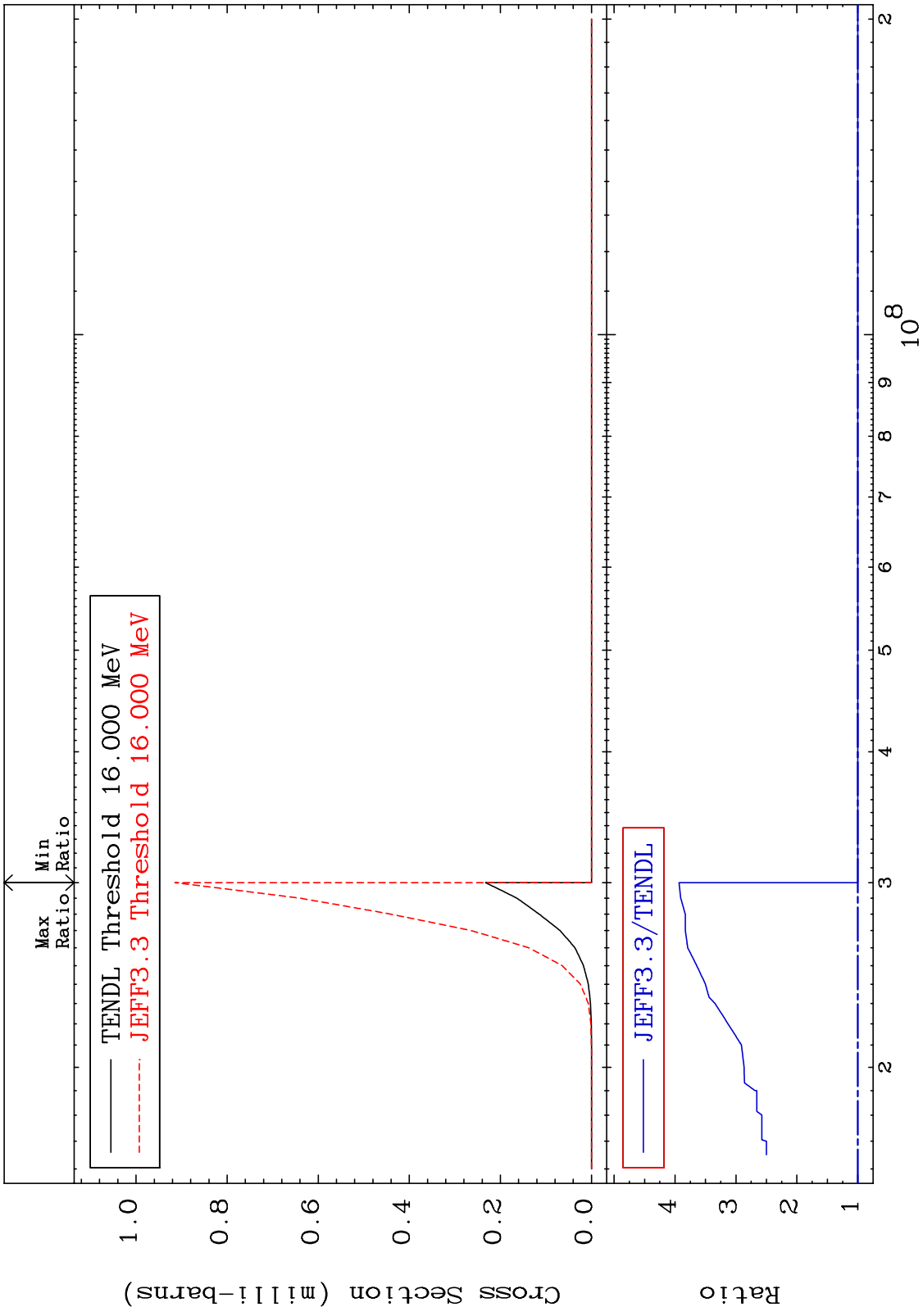
(n,2n) p:72-Hf-177g

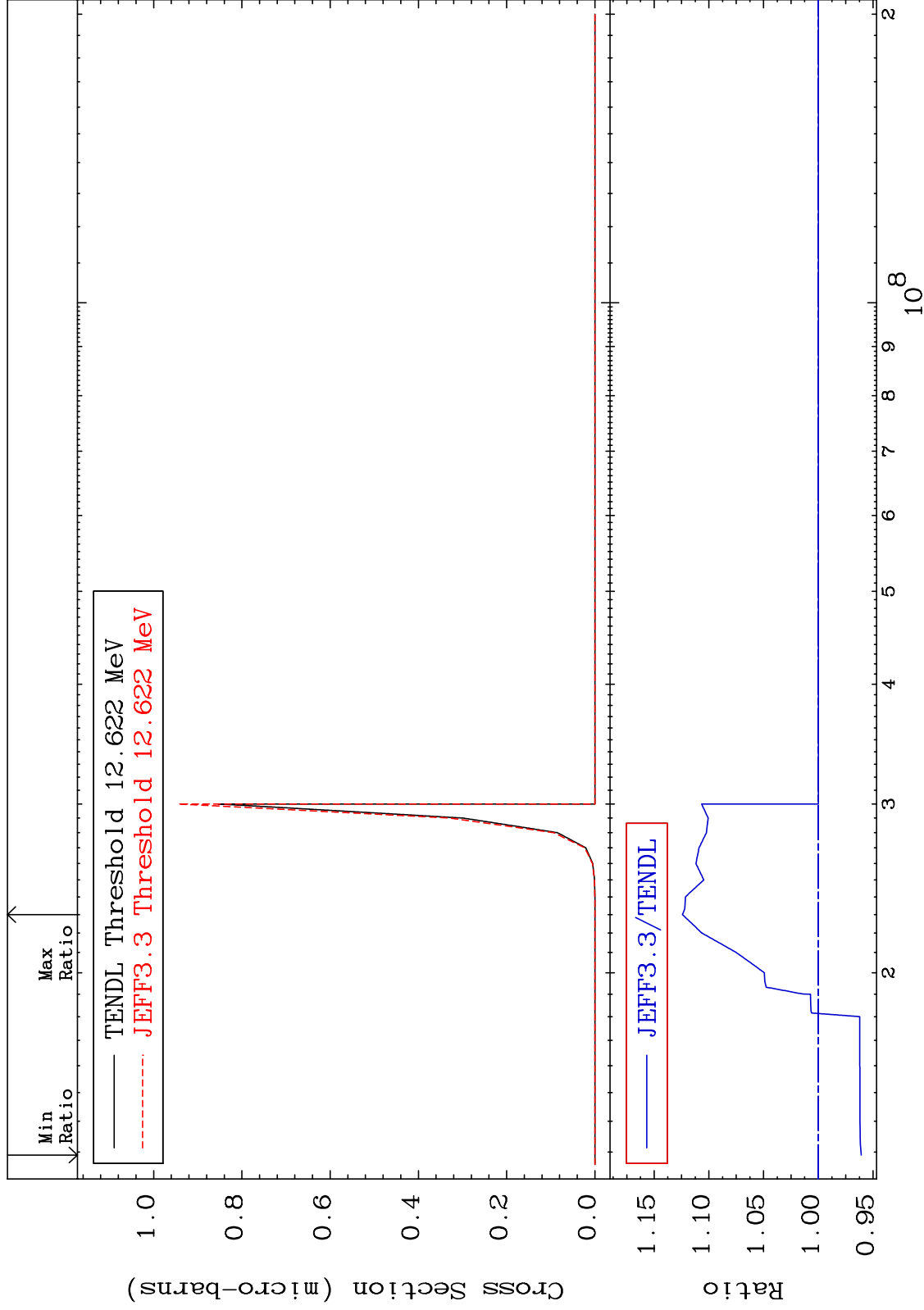
73-Ta-179

Radionuclide Production Cross Section -0.960 To 23.13 %

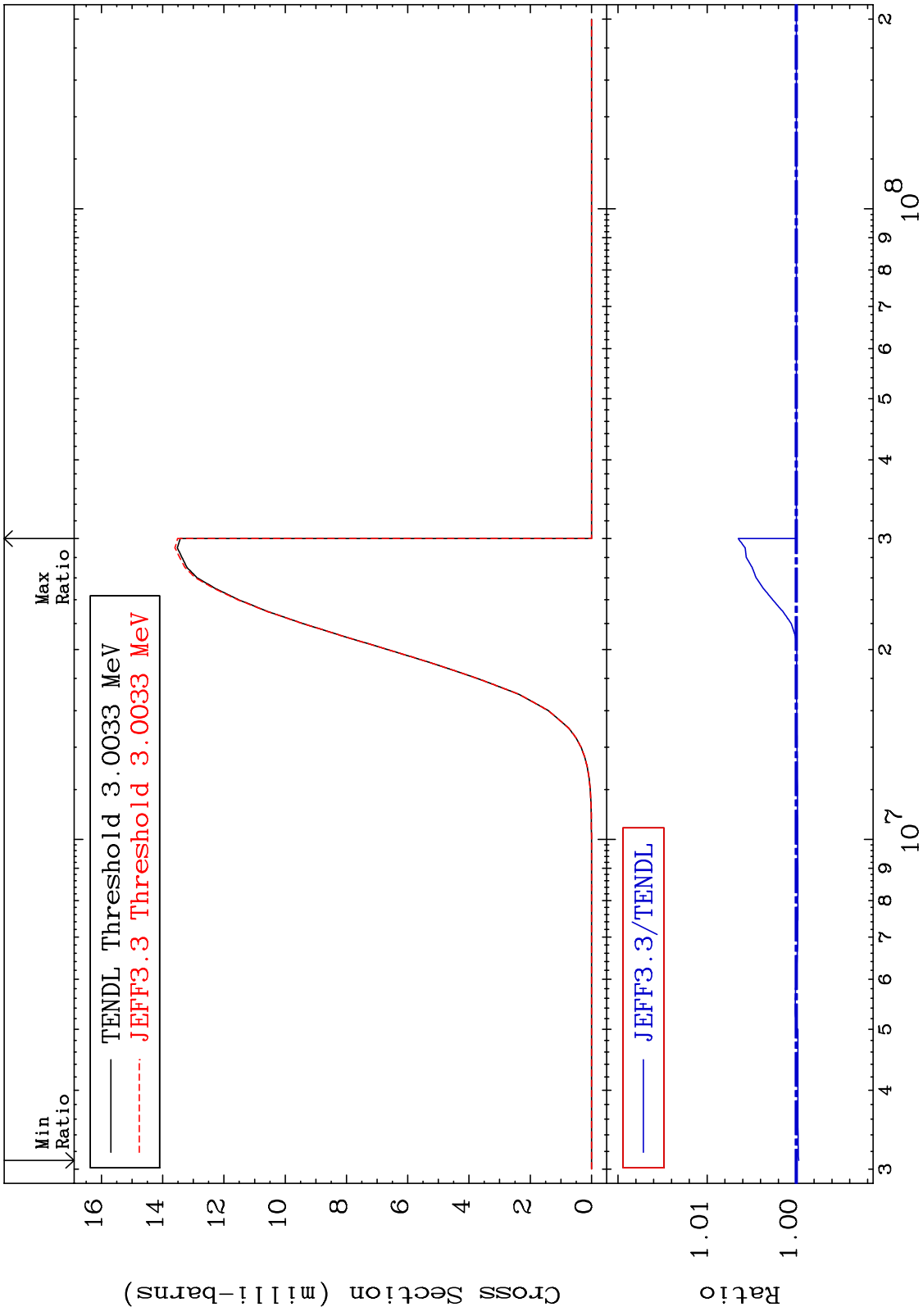


MAT 7322 (n,2n) p:72-Hf-177m5 73-Ta-179
 Radionuclide Production Cross Section 0.000 To 293.4 %





MAT 7322 (n,d):72-Hf-178g 73-Ta-179
 Radionuclide Production Cross Section -0.028 To 0.652 %

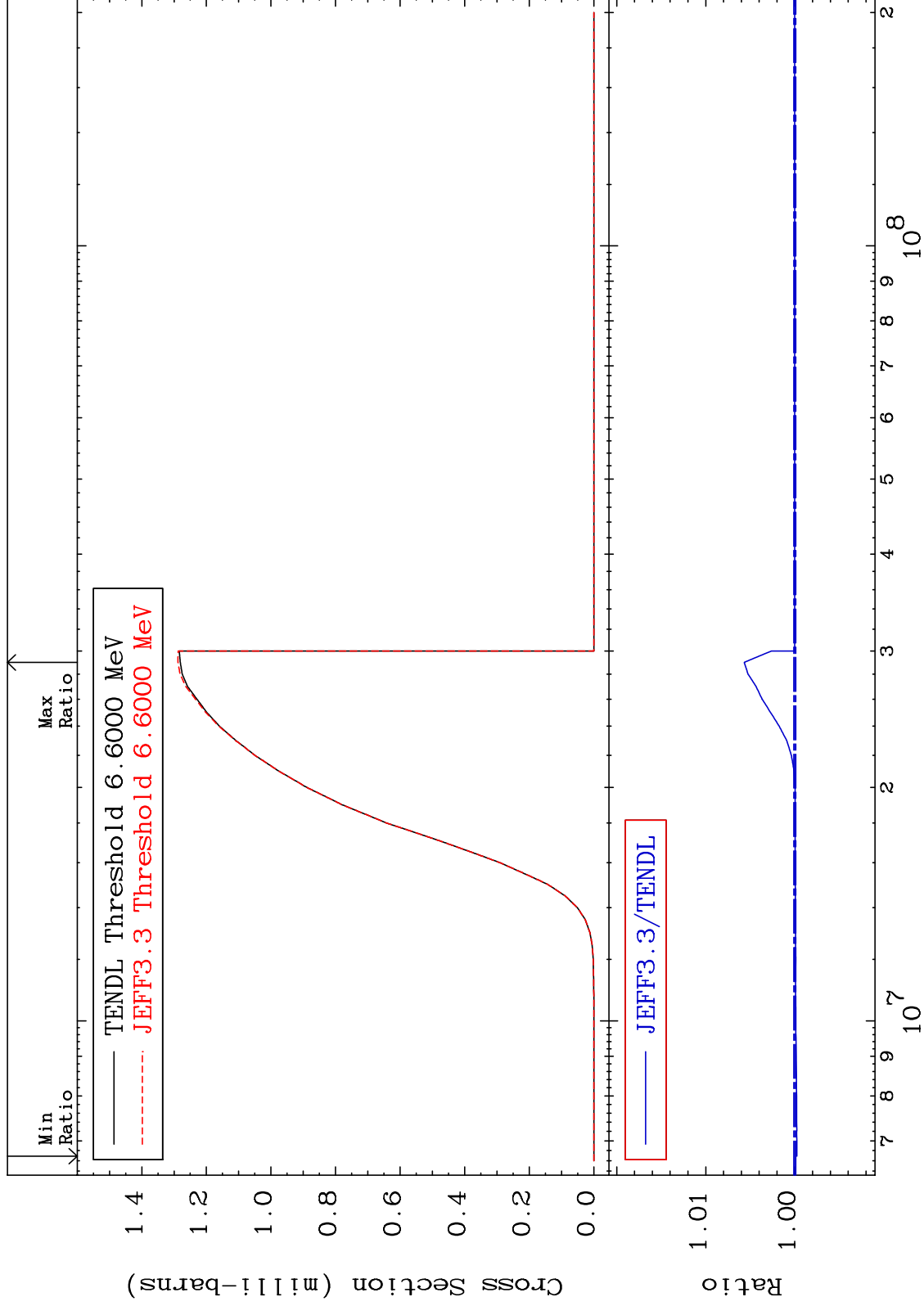


MAT 7322

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

73-Ta-179

Radionuclide Production Cross Section -0.023 To 0.568 %



94

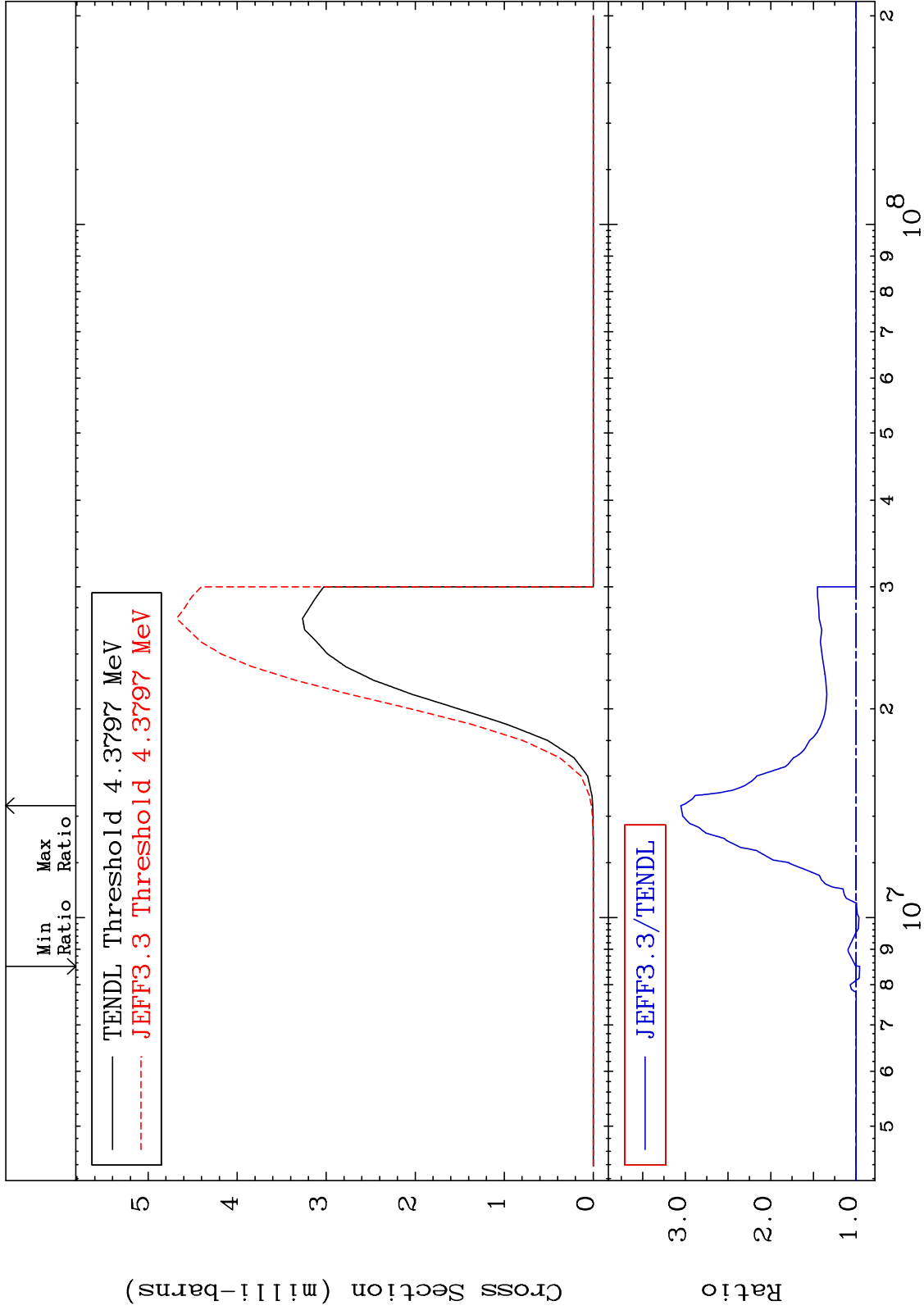
Incident Energy (eV)

73-Ta-179

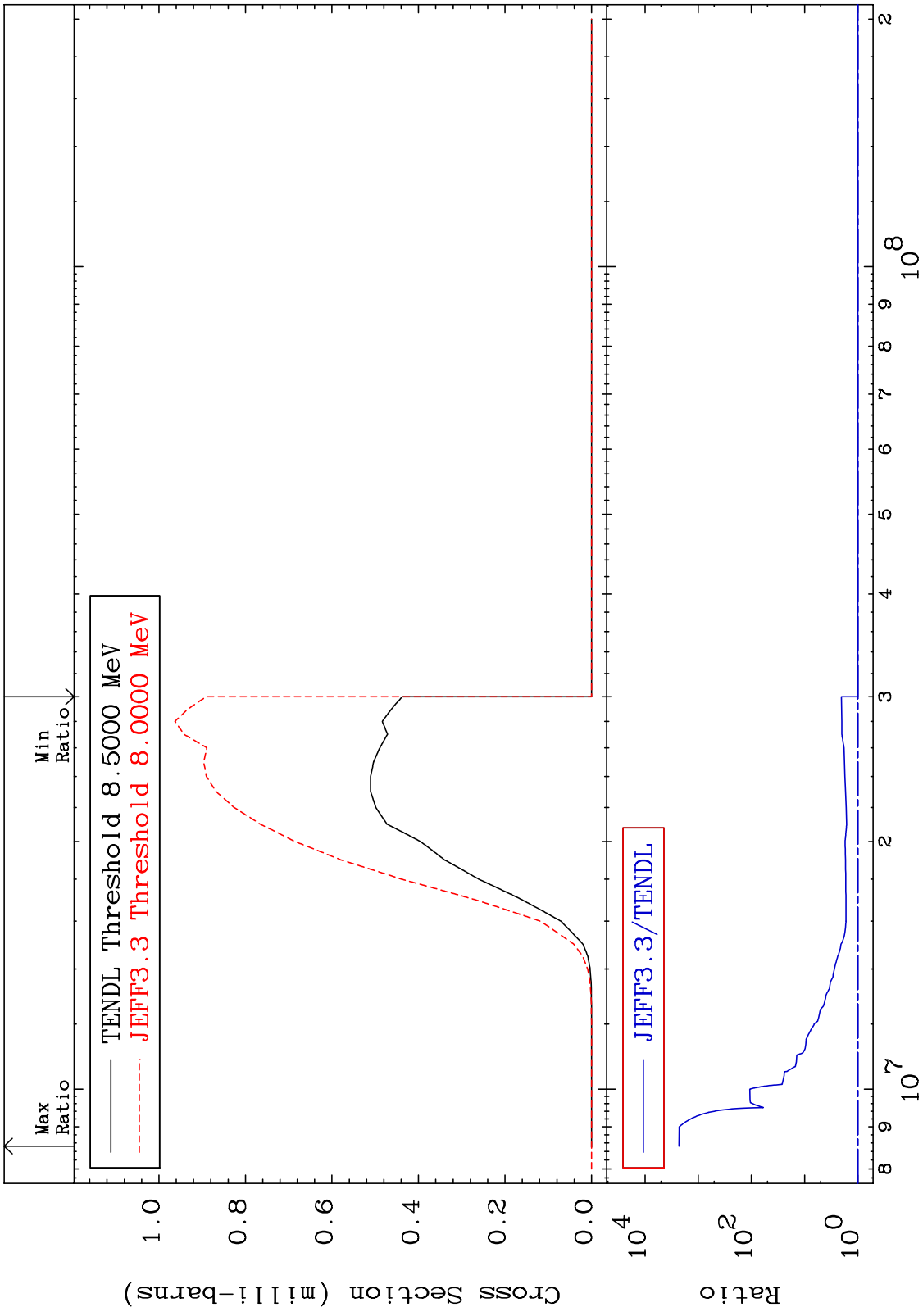
MAT 7322

(n,t):72-Hf-177g
Radionuclide Production Cross Section -4.125 To 205.3 %

73-Ta-179



MAT 7322 (n, t): 72-Hf-177m5 73-Ta-179
 Radionuclide Production Cross Section 0.000 To 9999. %



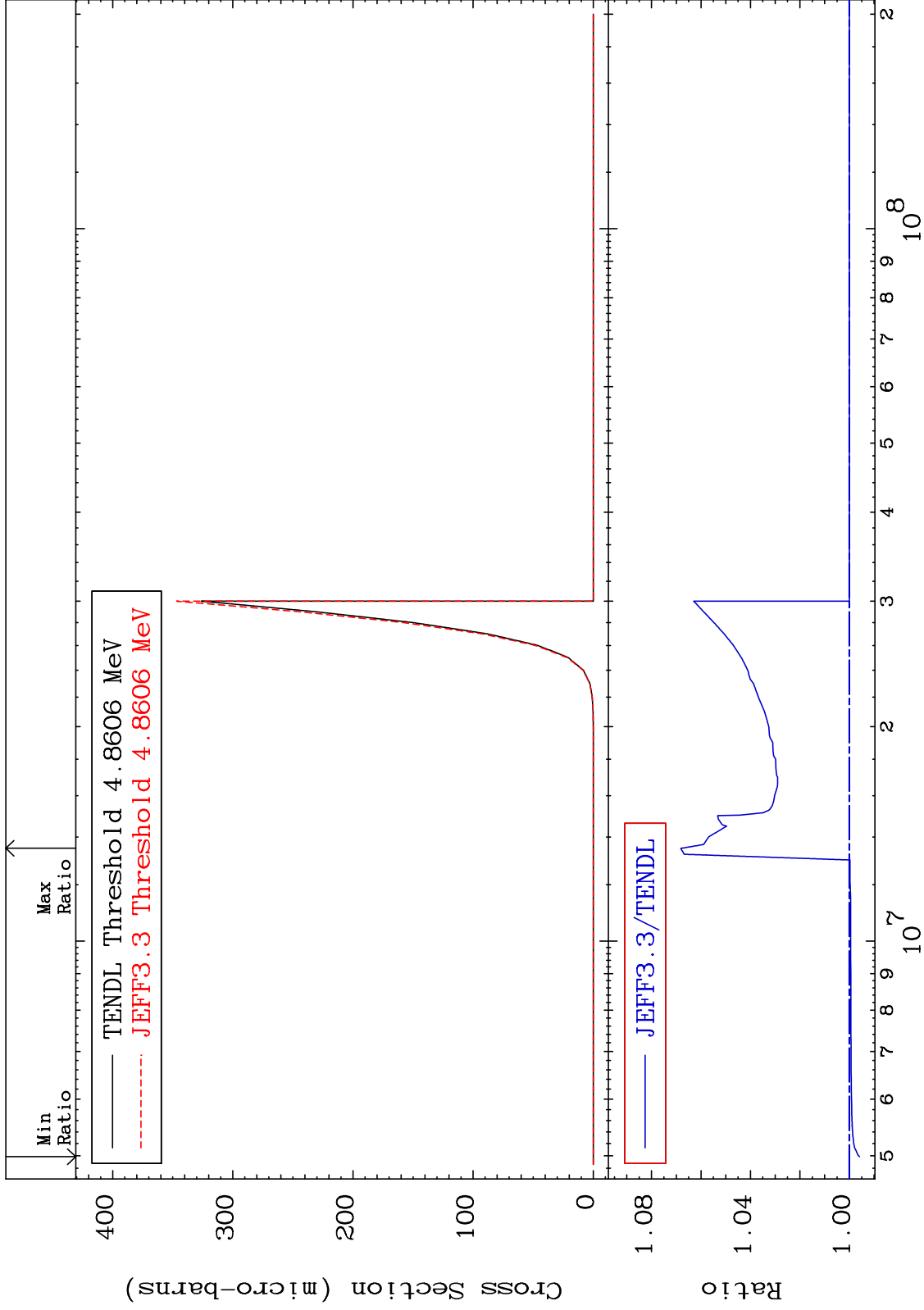
96 73-Ta-179

MAT 7322

(n, He-3) : 71-Lu-177g

73-Ta-179

Radionuclide Production Cross Section -0.415 To 6.816 %



97

Incident Energy (eV)

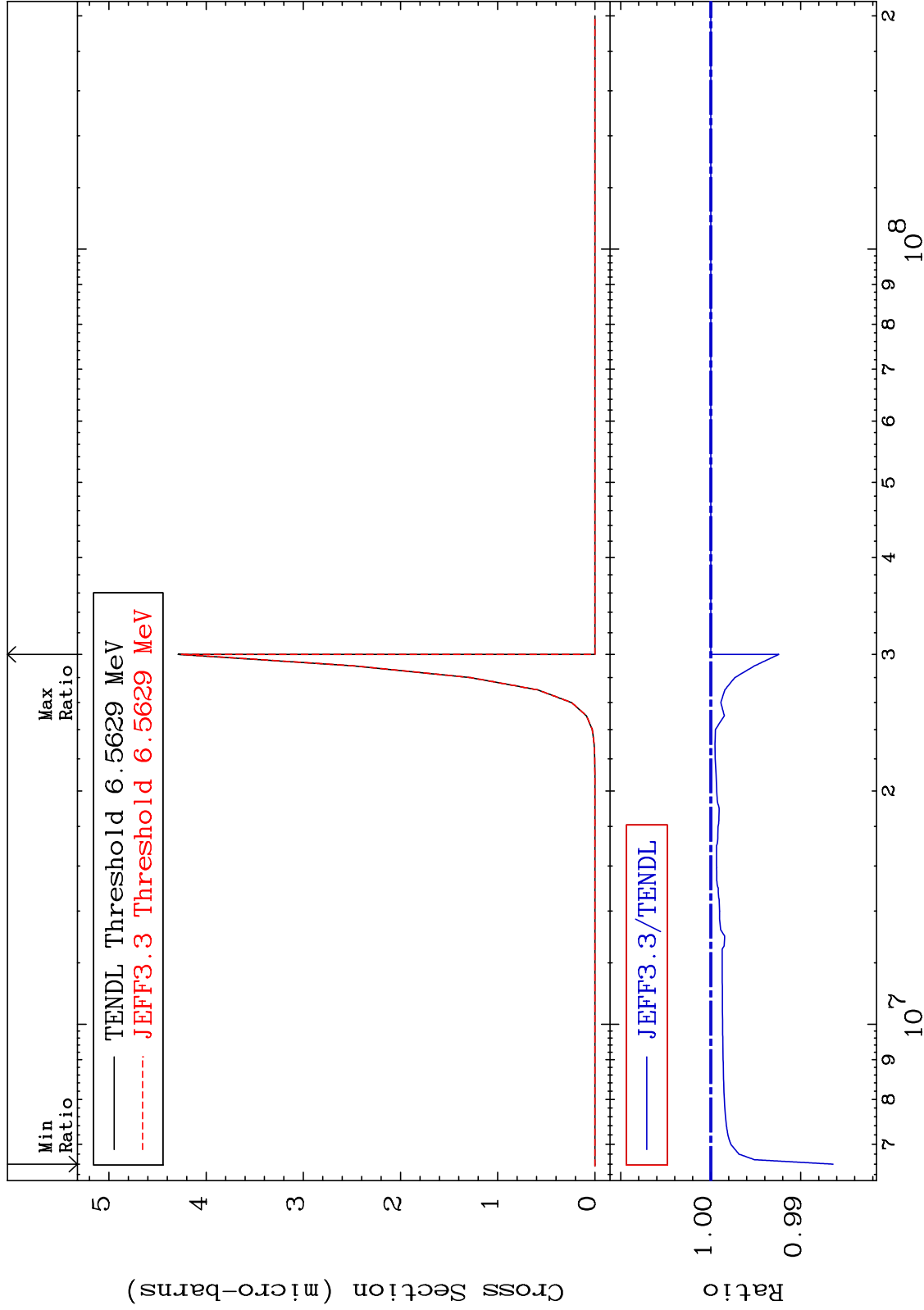
73-Ta-179

MAT 7322

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

73-Ta-179

Radionuclide Production Cross Section -1.358 To 0.000 %



98

Incident Energy (eV)

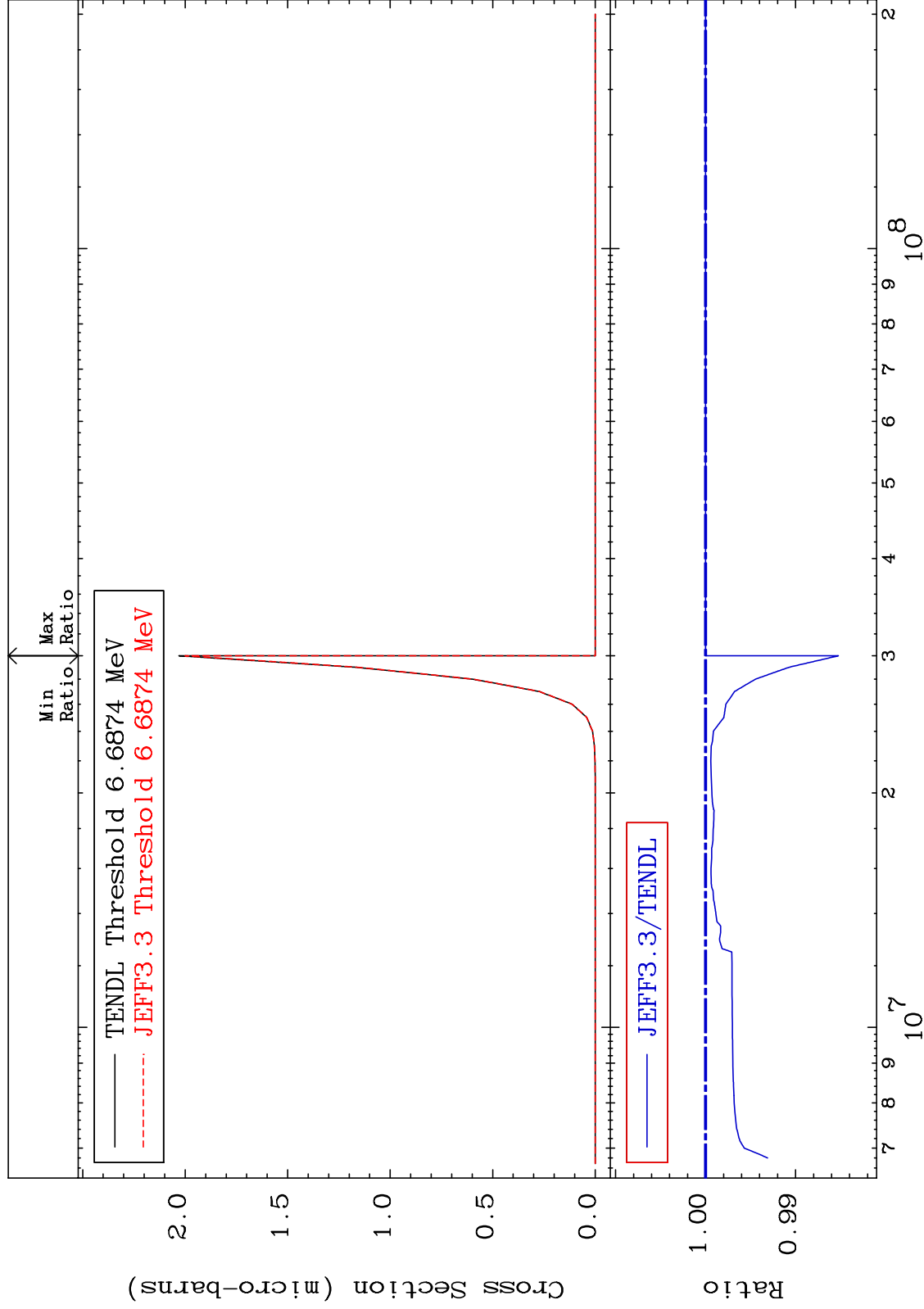
73-Ta-179

MAT 7322

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

73-Ta-179

Radionuclide Production Cross Section -1.476 To 0.000 %



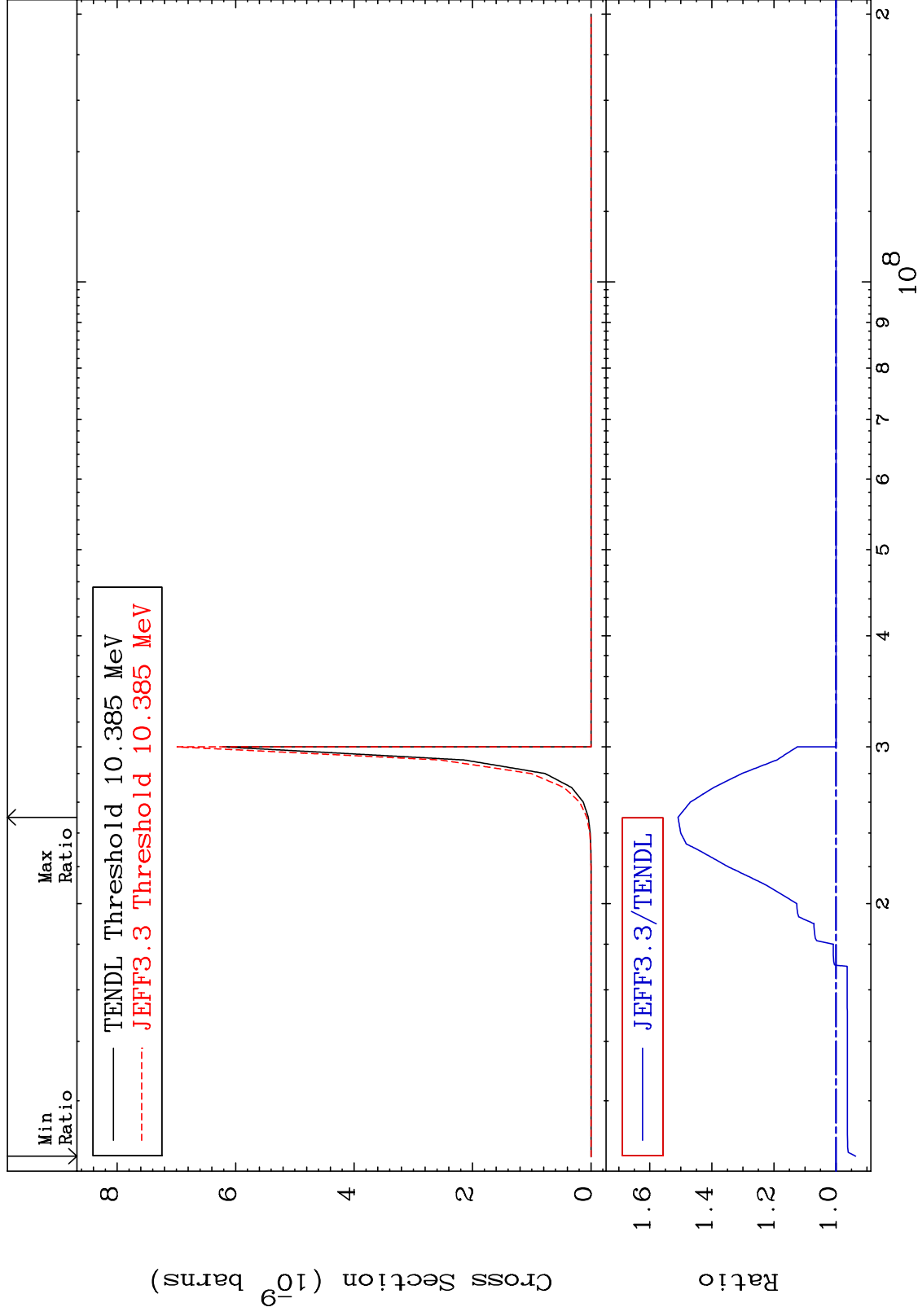
99

Incident Energy (eV)

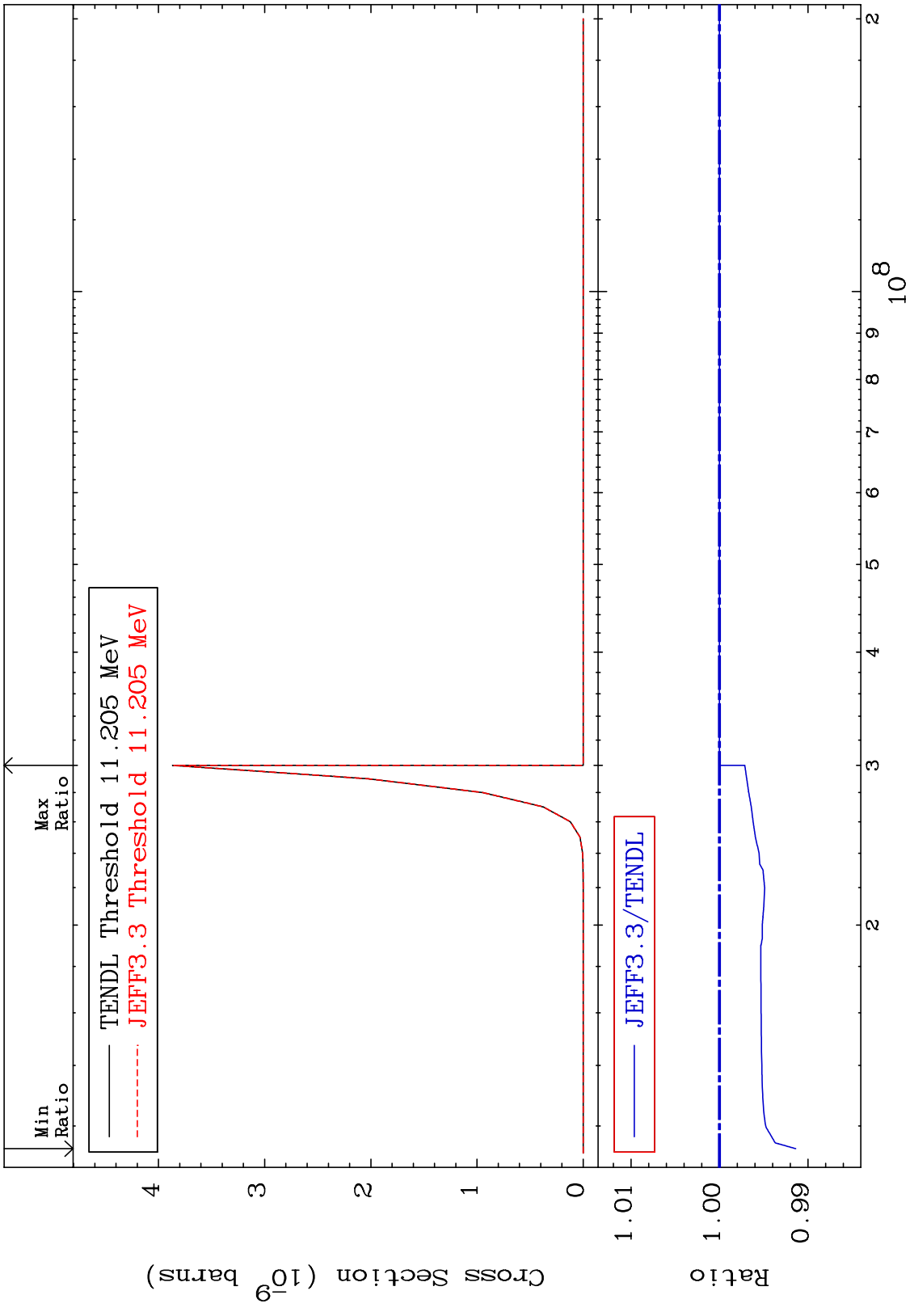
73-Ta-179

MAT 7322

(n,p) d:71-Lu-177g 73-Ta-179
Radionuclide Production Cross Section -6.346 To 50.91 %



MAT 7322 (n,p) t:71-Lu-176g 73-Ta-179
 Radionuclide Production Cross Section -0.861 To 0.000 %



MAT 7322 (n,p) t:71-Lu-176m1 73-Ta-179
 Radionuclide Production Cross Section -0.040 To 0.844 %

