

Program Complot
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

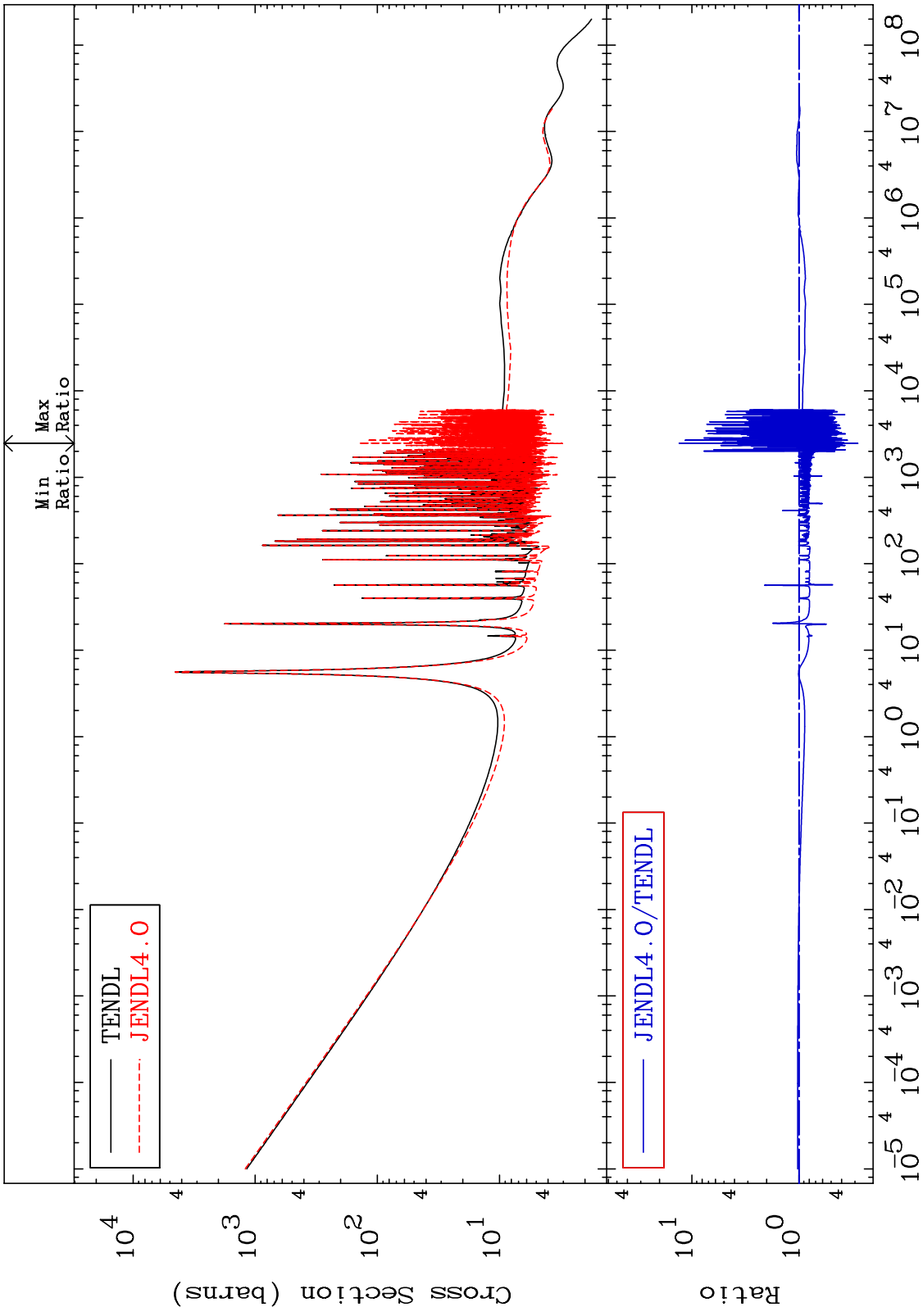
U.S.A.

Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 4325 43-Tc-99
Total Cross Section -71.80 To 1215. %



43-Tc-99

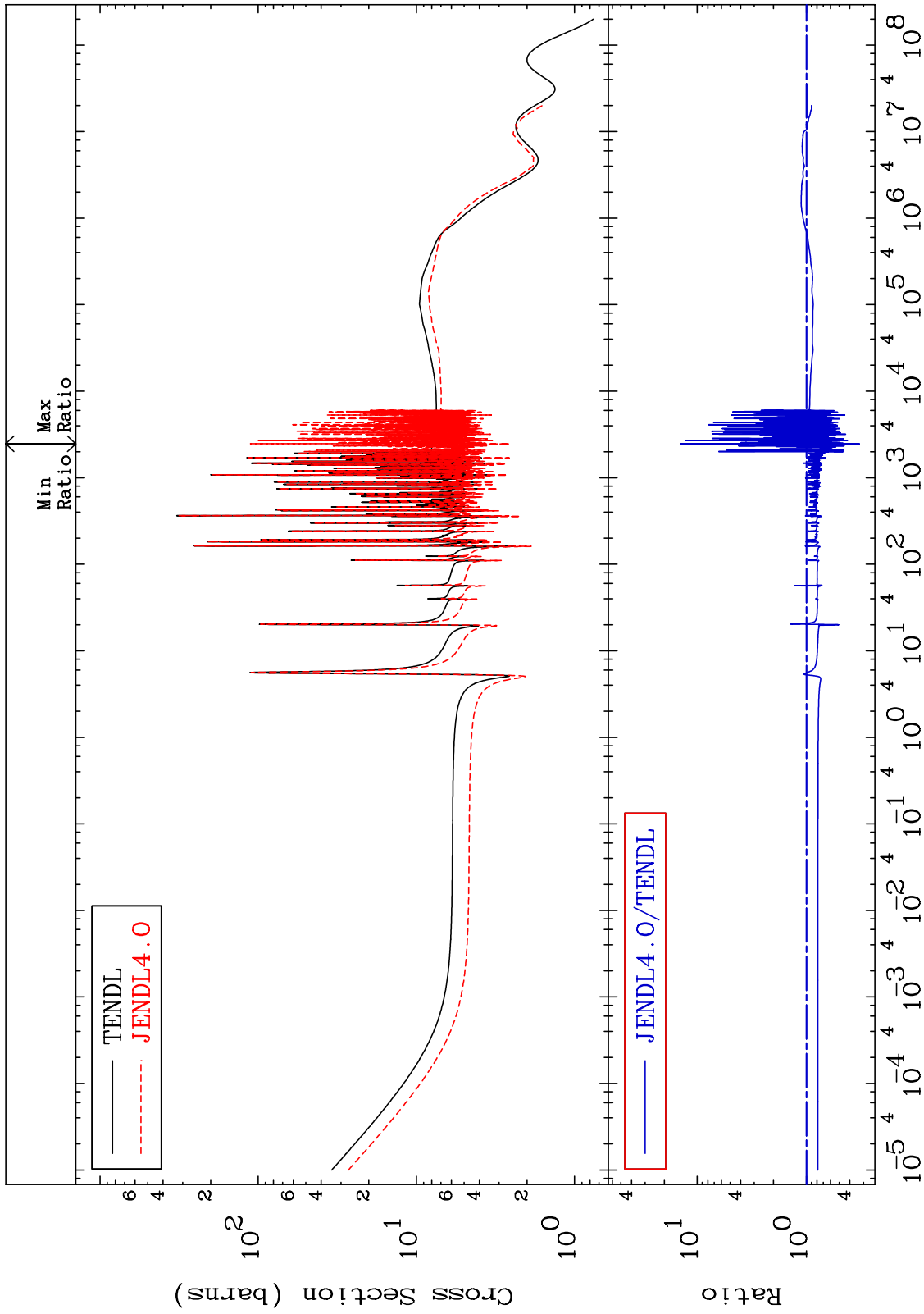
MAT 4325

Elastic

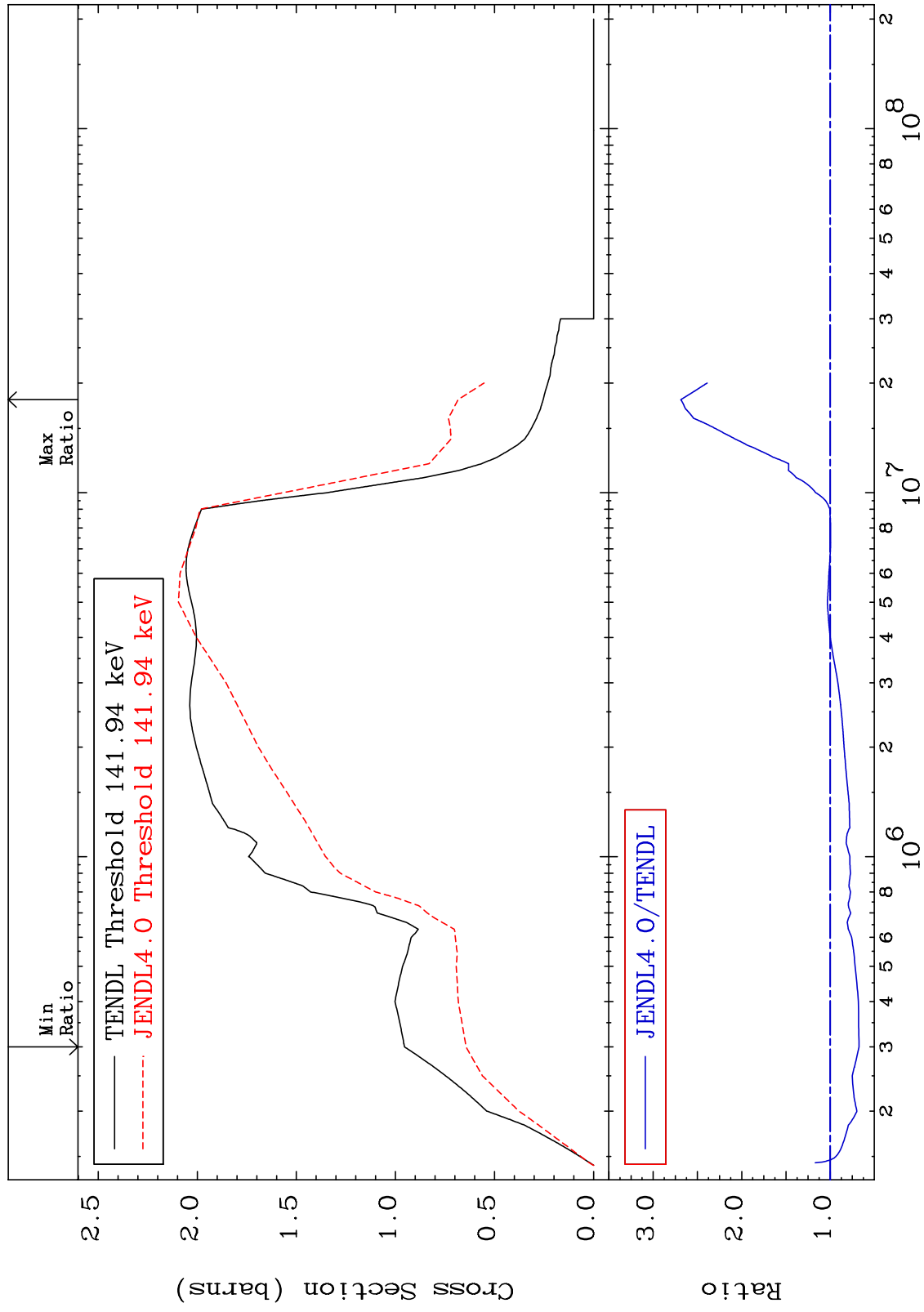
43-Tc-99

Cross Section

-67.46 To 1314. %

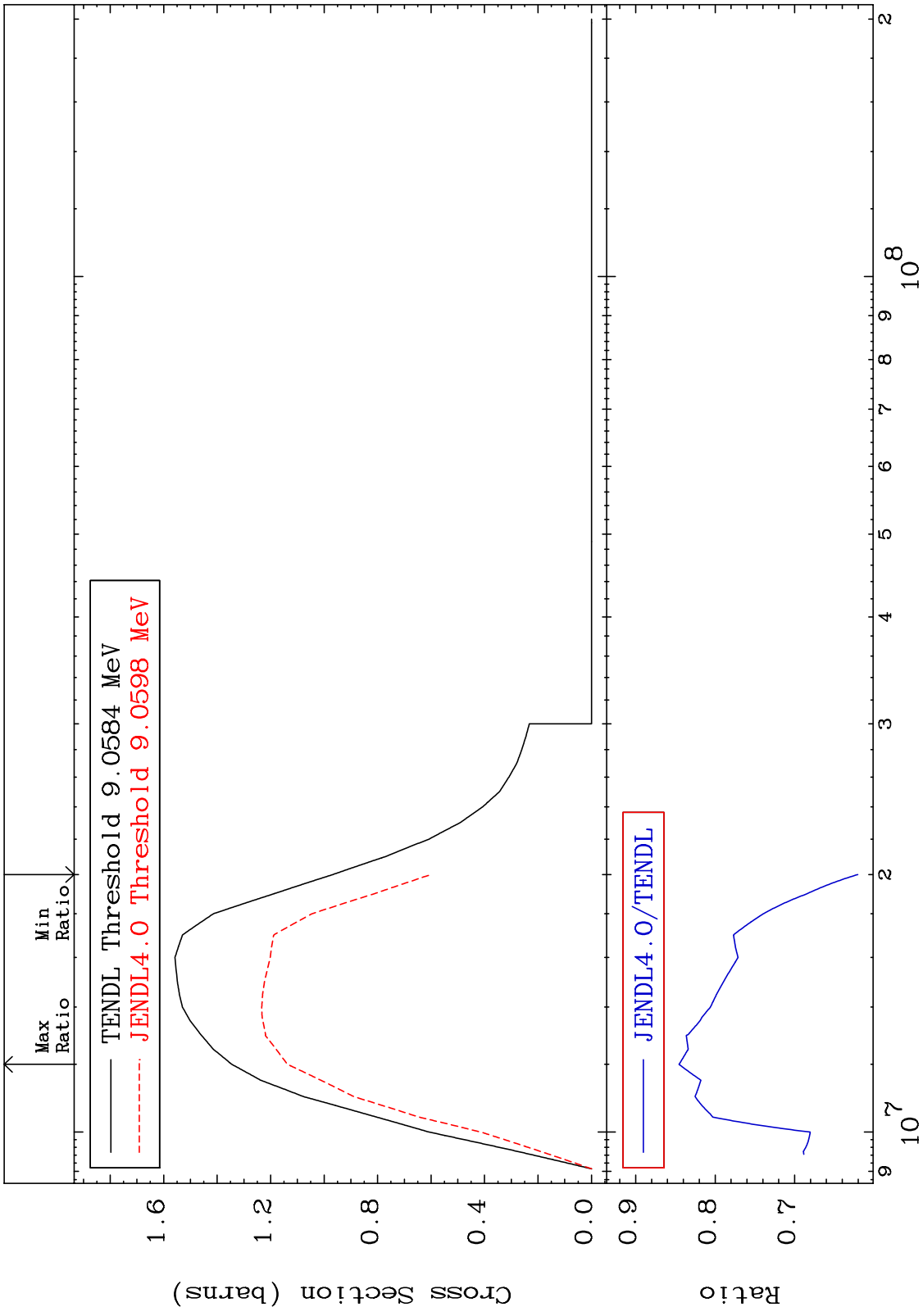


MAT 4325 Inelastic Cross Section 43-Tc-99 -32.56 To 168.7 %



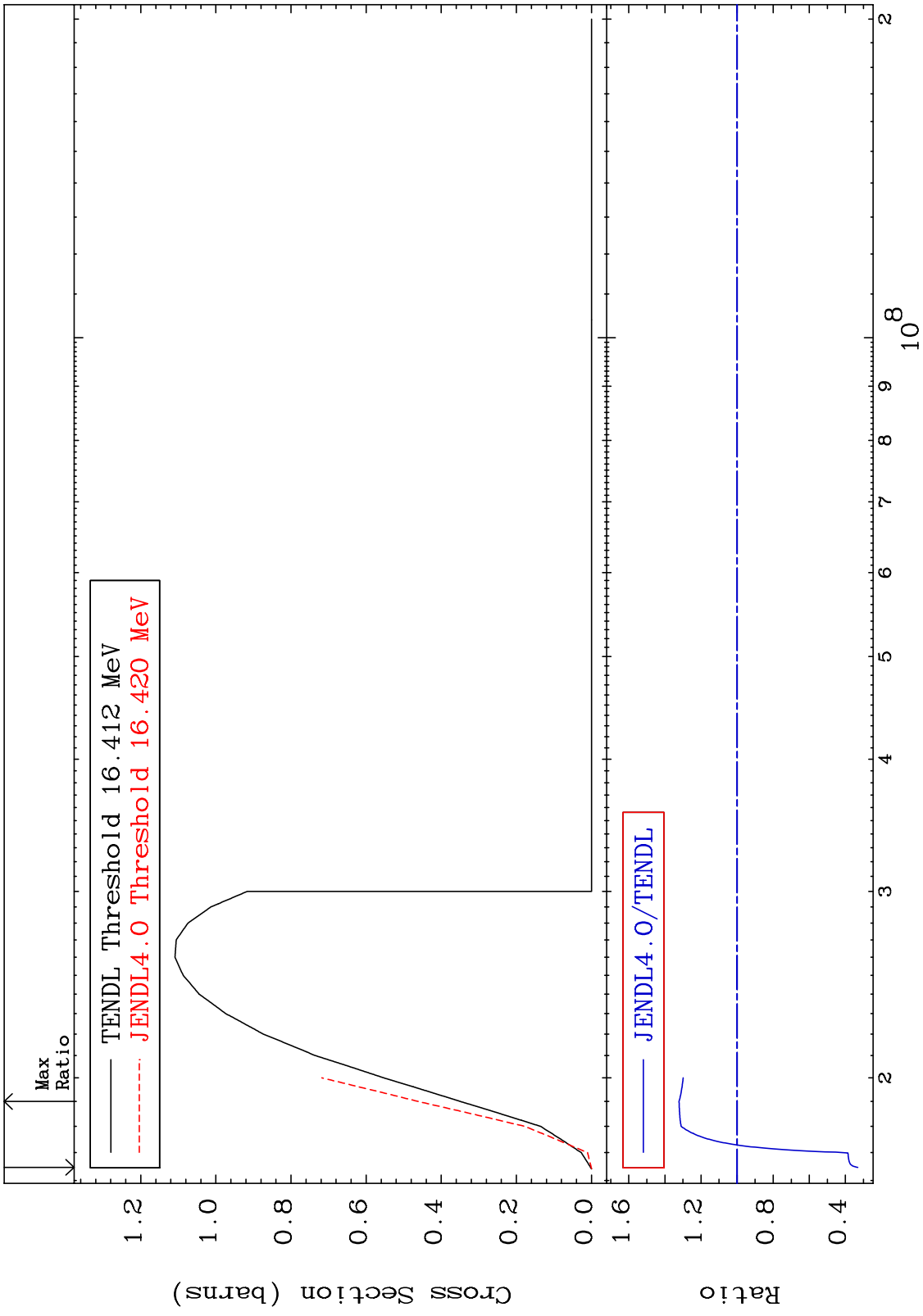
3 43-Tc-99

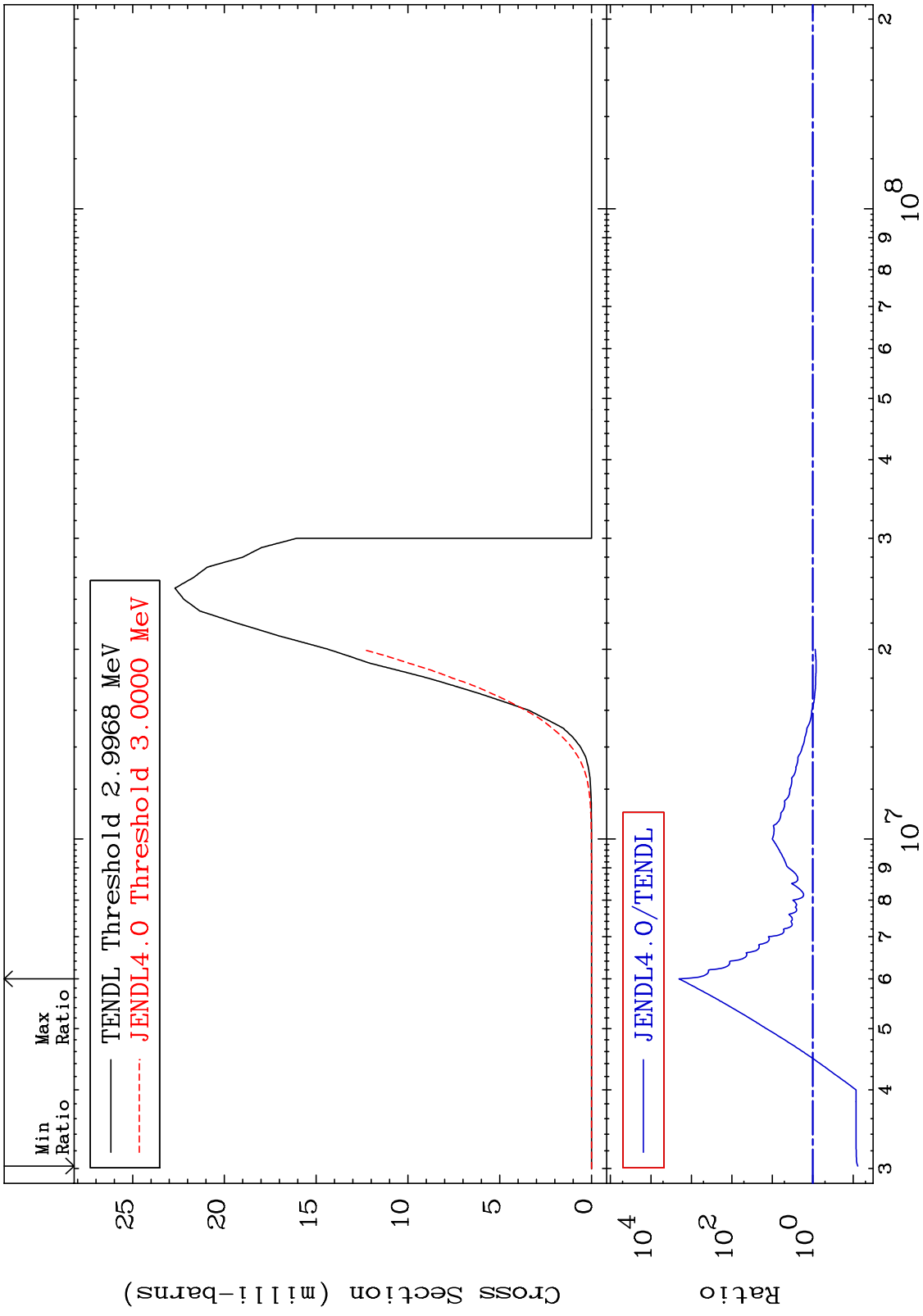
MAT 4325 (n,2n) Cross Section 43-Tc-99 -37.95 To -15.46%



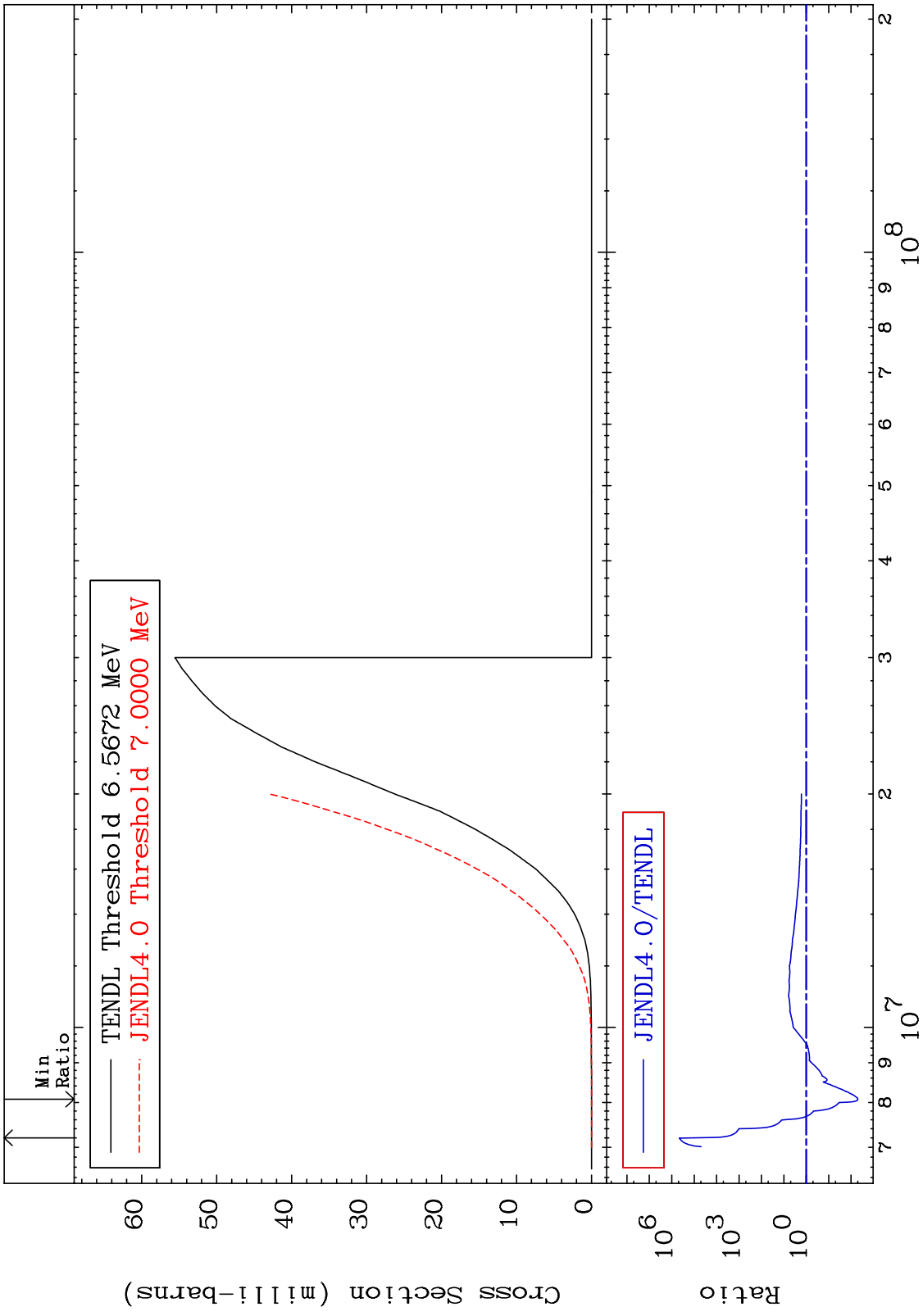
43-Tc-99

MAT 4325 (n,3n) Cross Section 43-Tc-99 -66.88 To 32.16 %

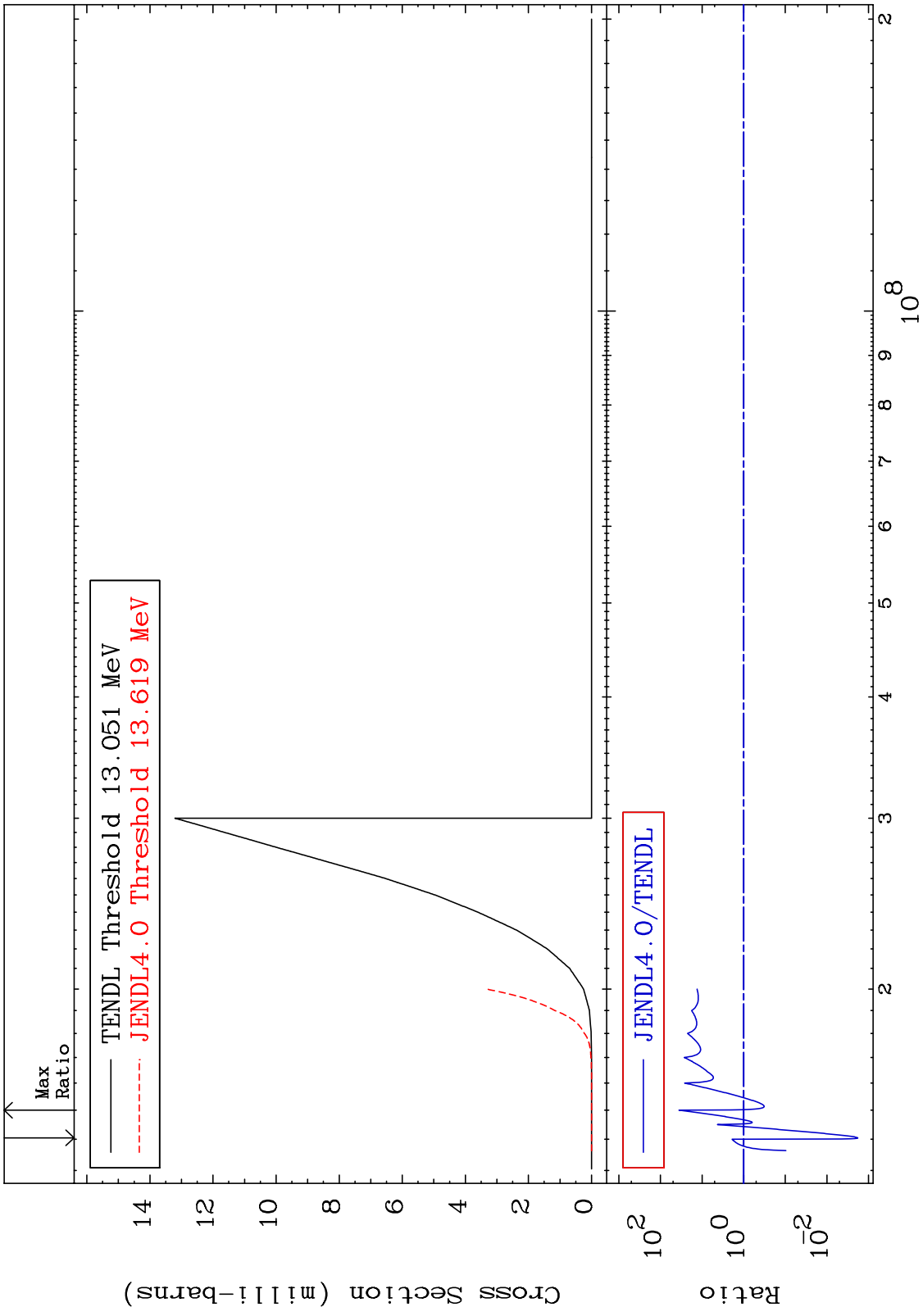


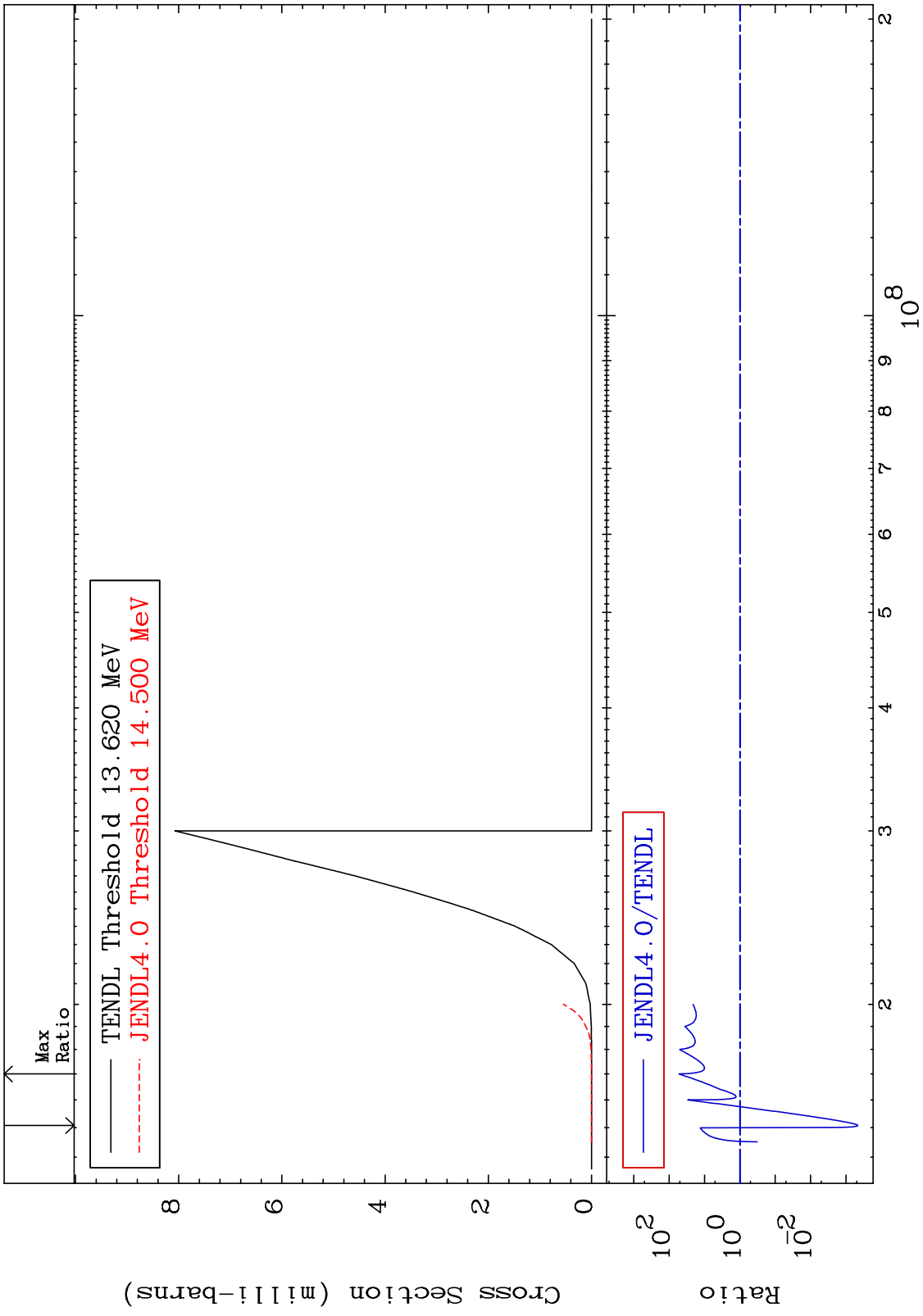


MAT 4325 (n,n') p 43-Tc-99
 Cross Section -99.50 To 9999. %

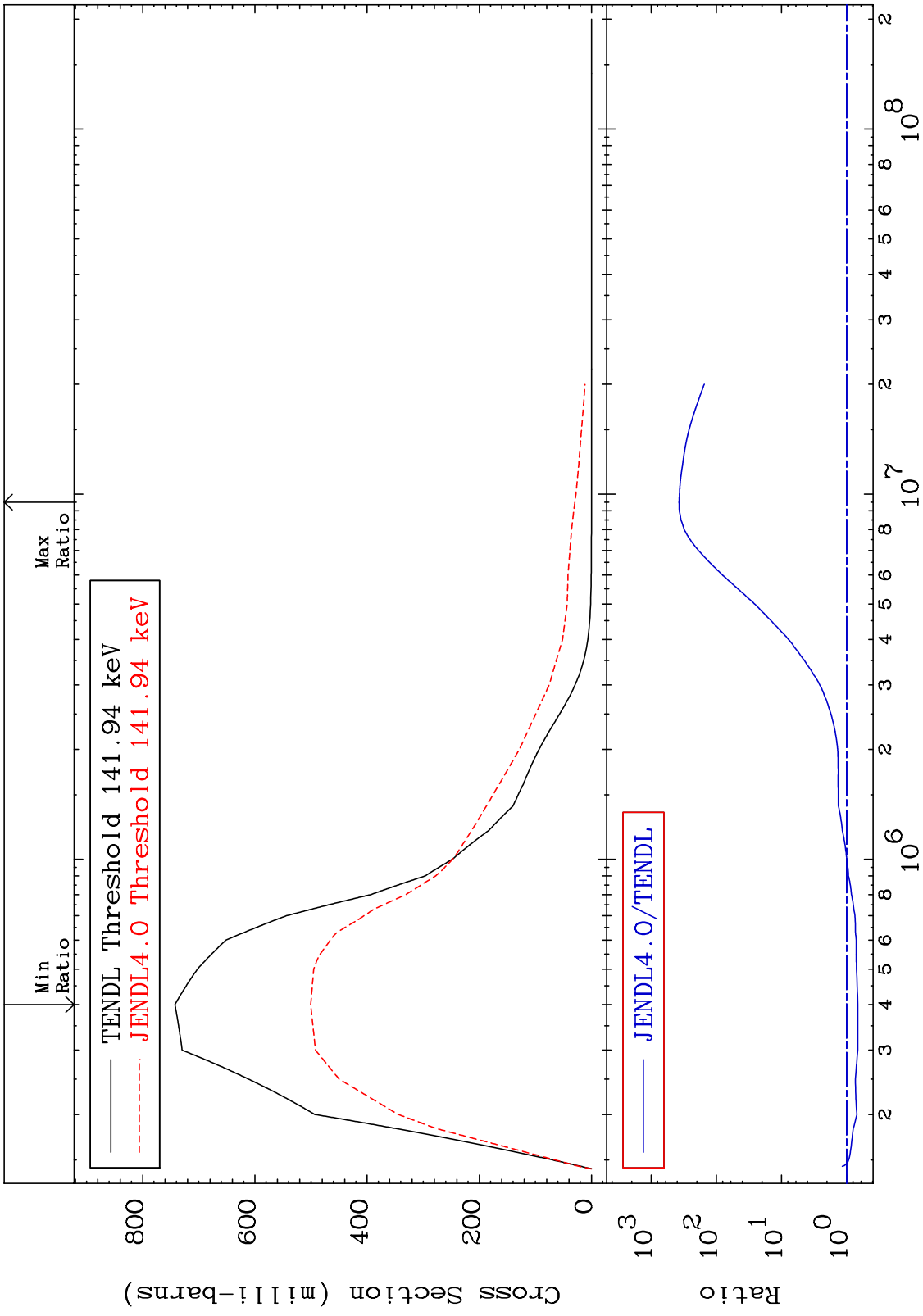


7 43-Tc-99



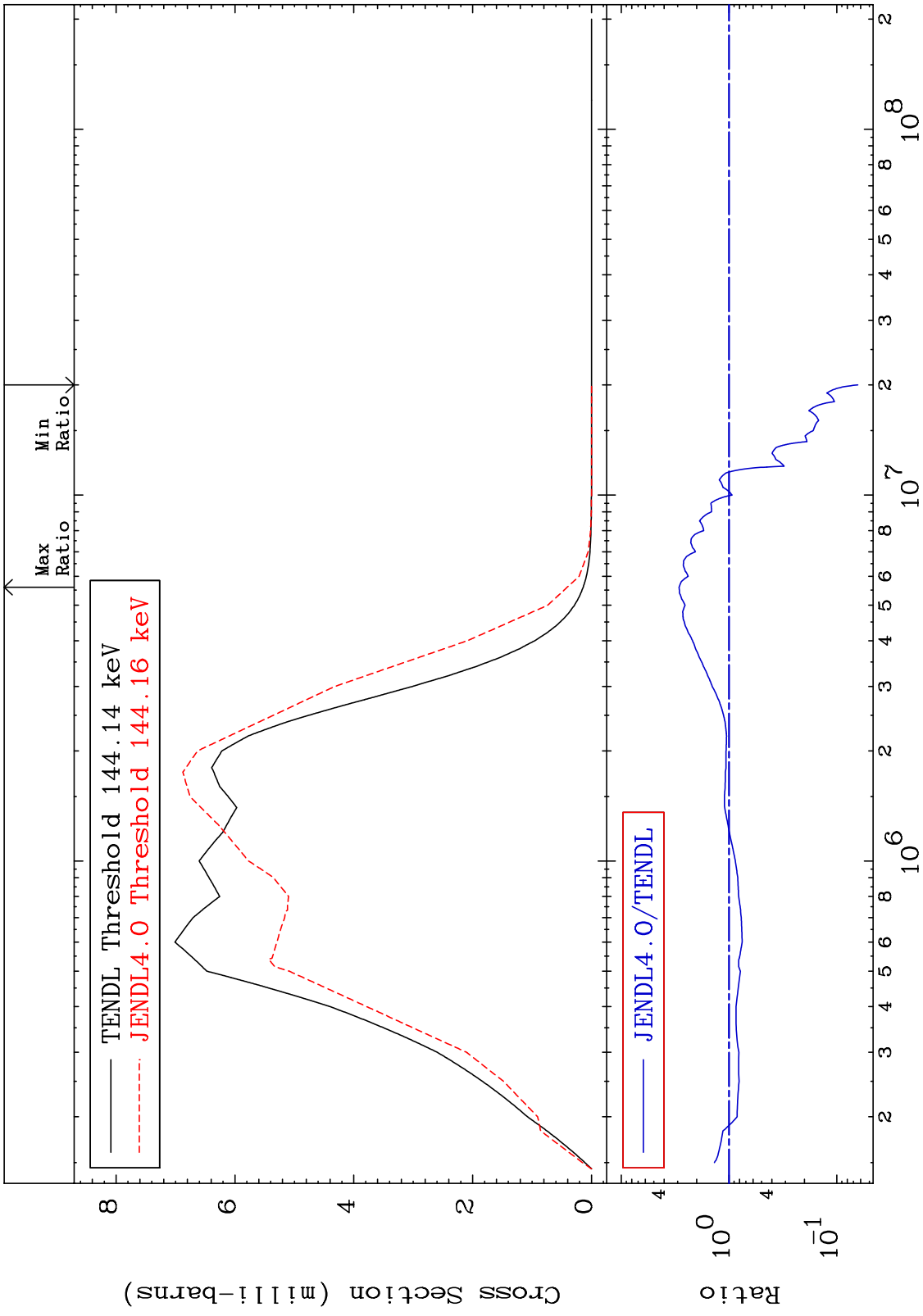


MAT 4325 MT= 51 (n,n') Level Cross Section -32.60 To 9999. % 43-Tc-99



Incident Energy (eV) 43-Tc-99

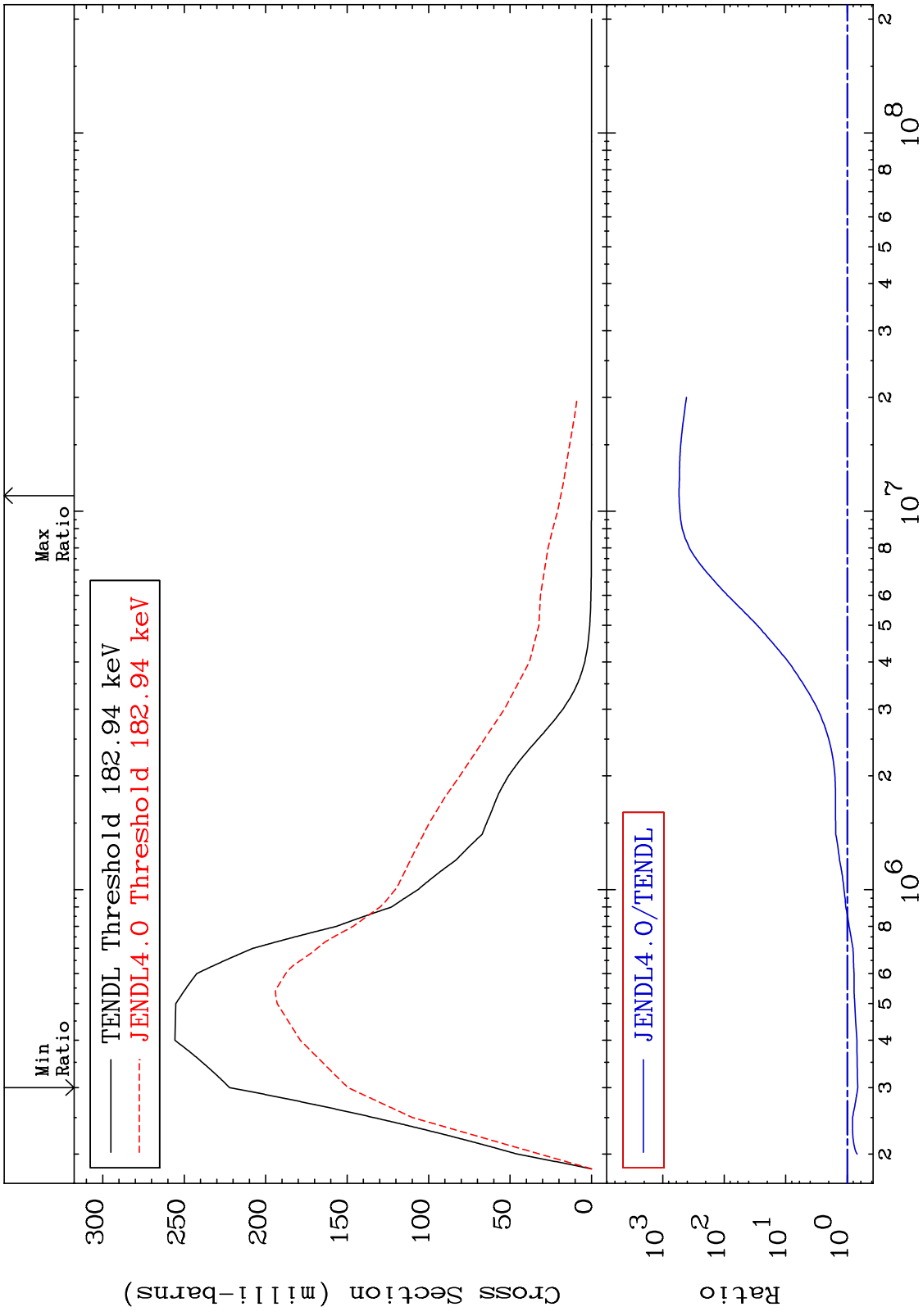
MAT 4325 MT= 52 (n,n') Level Cross Section 43-Tc-99
 -93.62 To 191.2 %



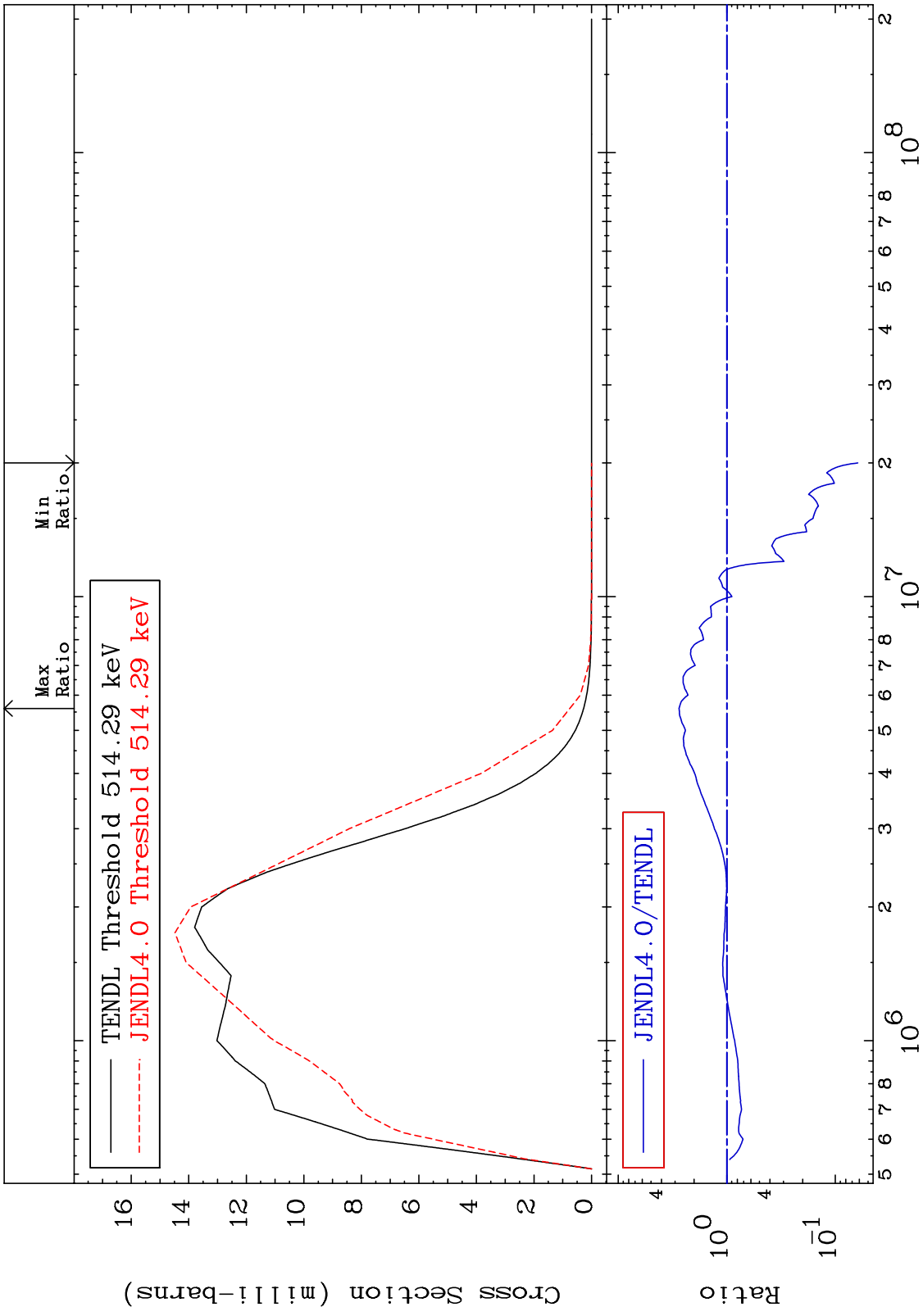
— TENDL Threshold 144.14 keV
 - - - JENDL4.0 Threshold 144.16 keV

— JENDL4.0/TENDL

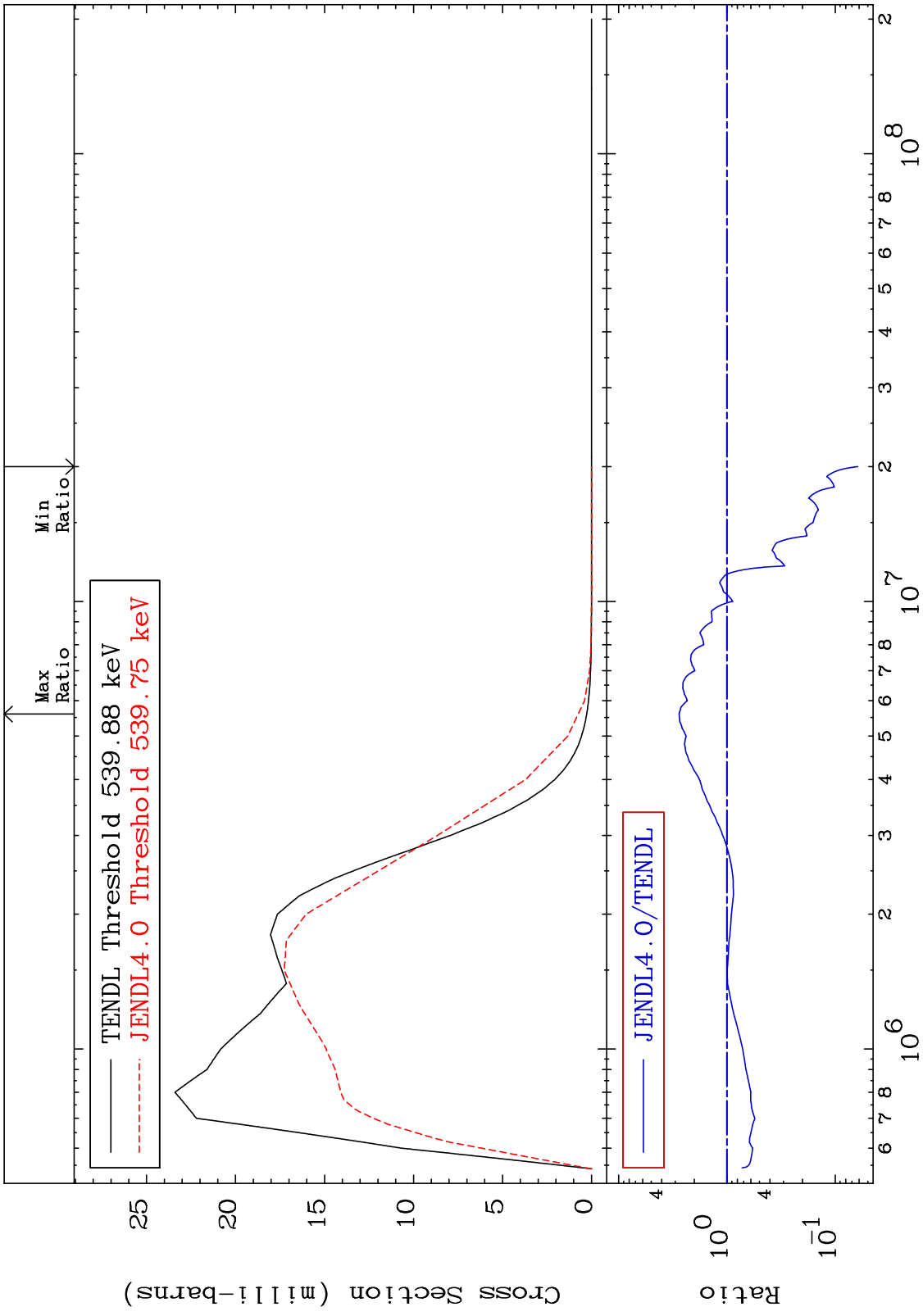
MAT 4325 MT= 53 (n,n') Level Cross Section -32.67 To 9999. % 43-Tc-99



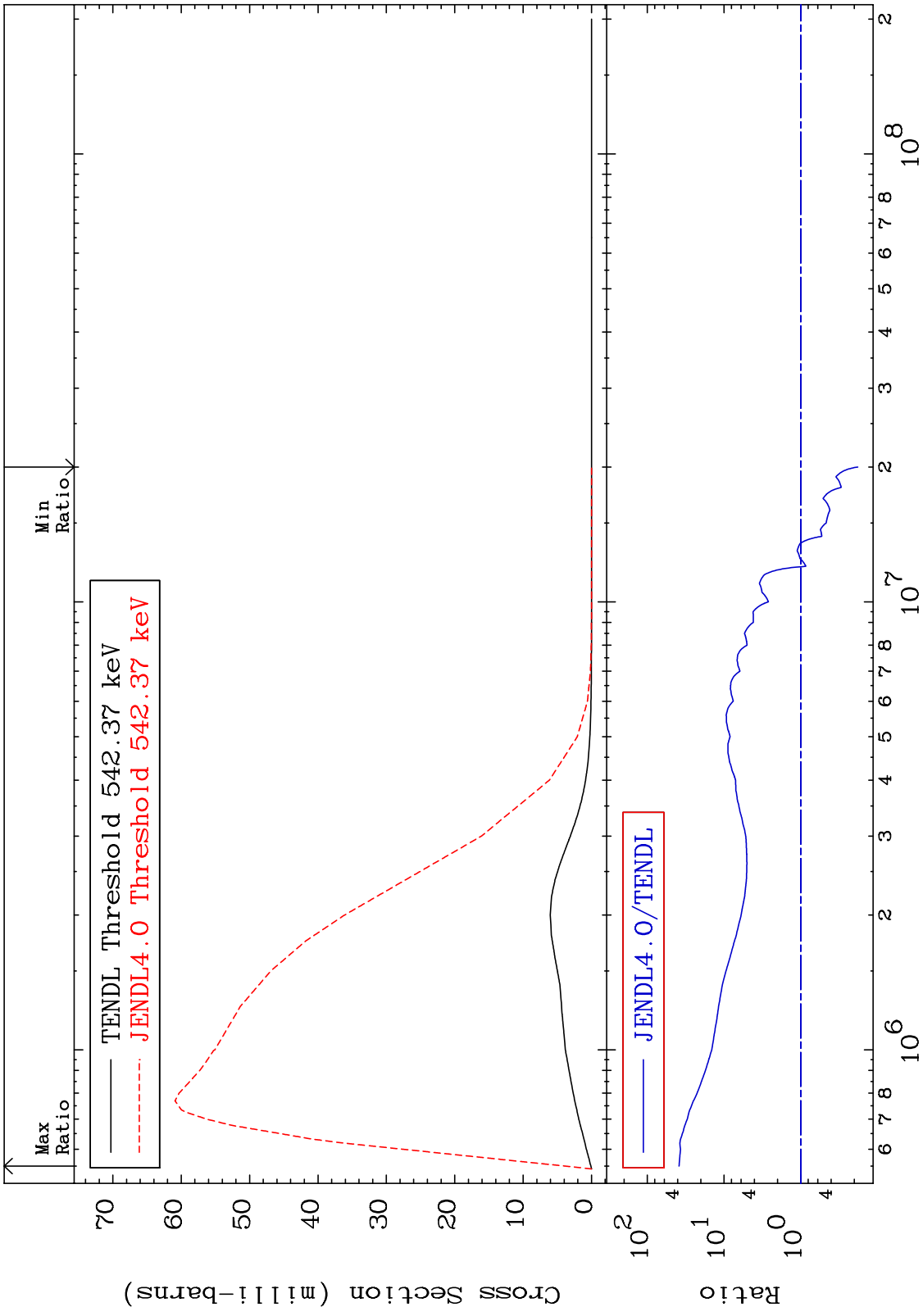
MAT 4325 MT= 54 (n,n') Level Cross Section 43-Tc-99
 -93.80 To 175.4 %



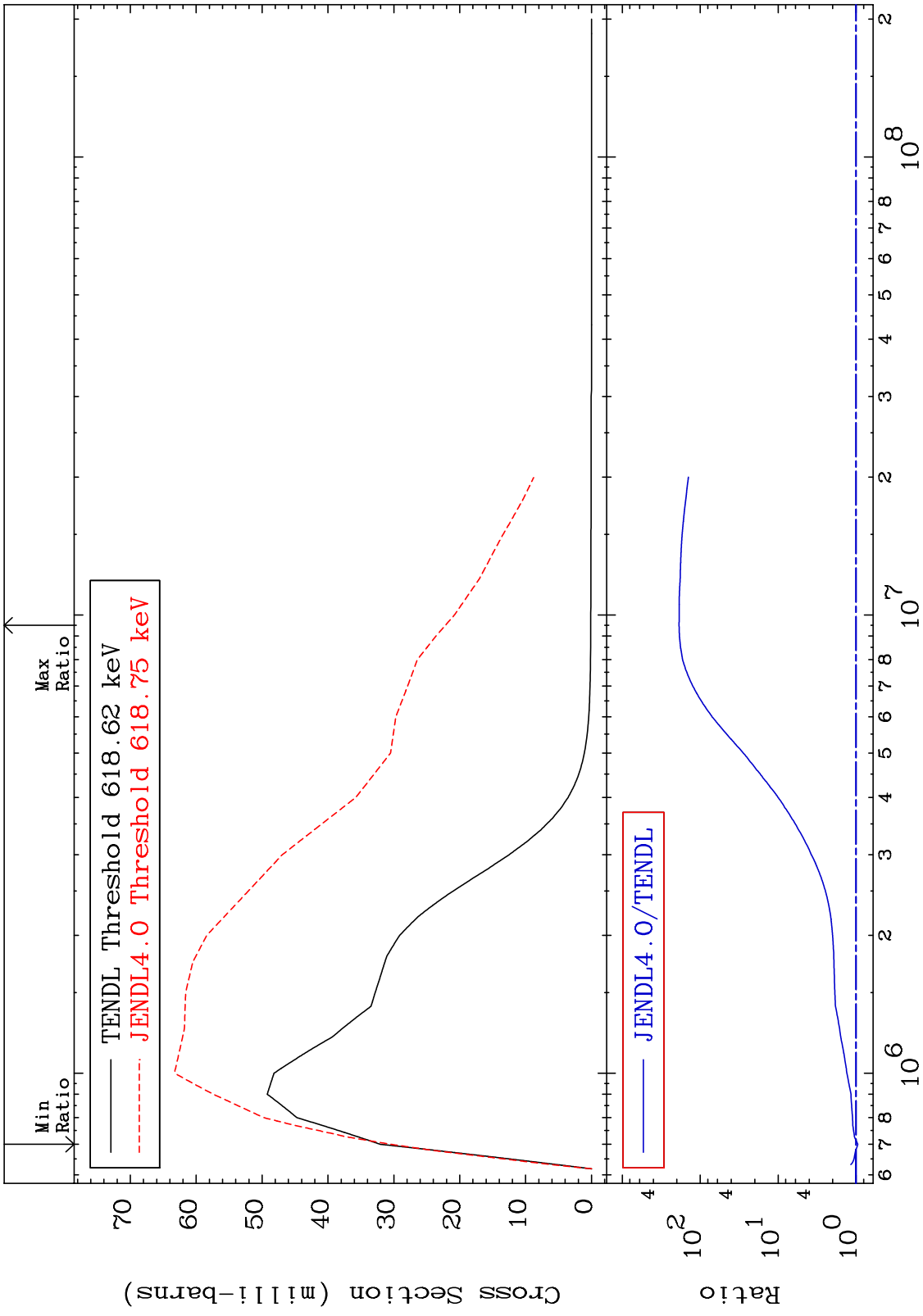
MAT 4325 MT= 55 (n,n') Level Cross Section -93.82 To 176.7 % 43-Tc-99



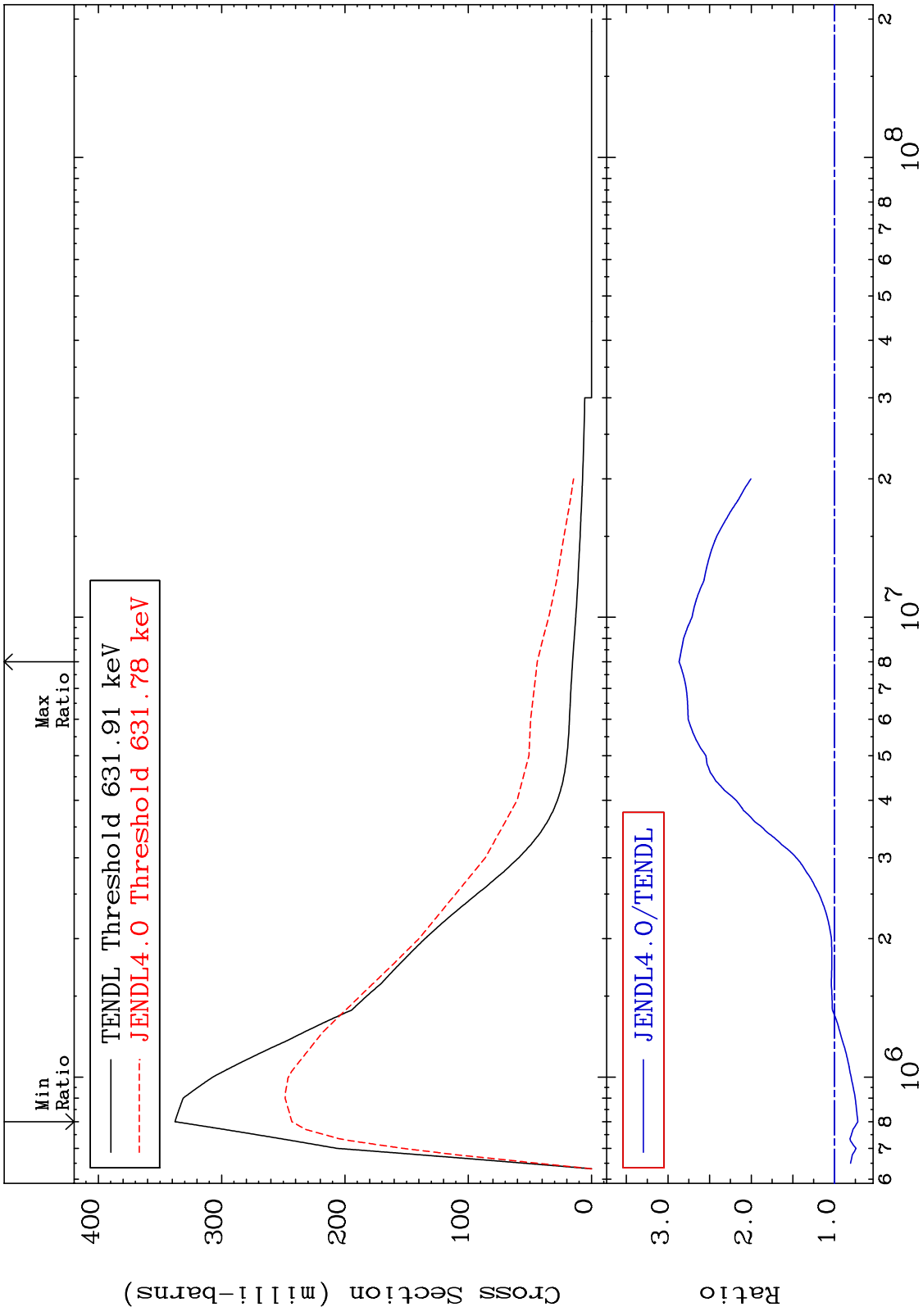
MAT 4325 MT= 56 (n,n') Level Cross Section -82.02 To 3747. % 43-Tc-99



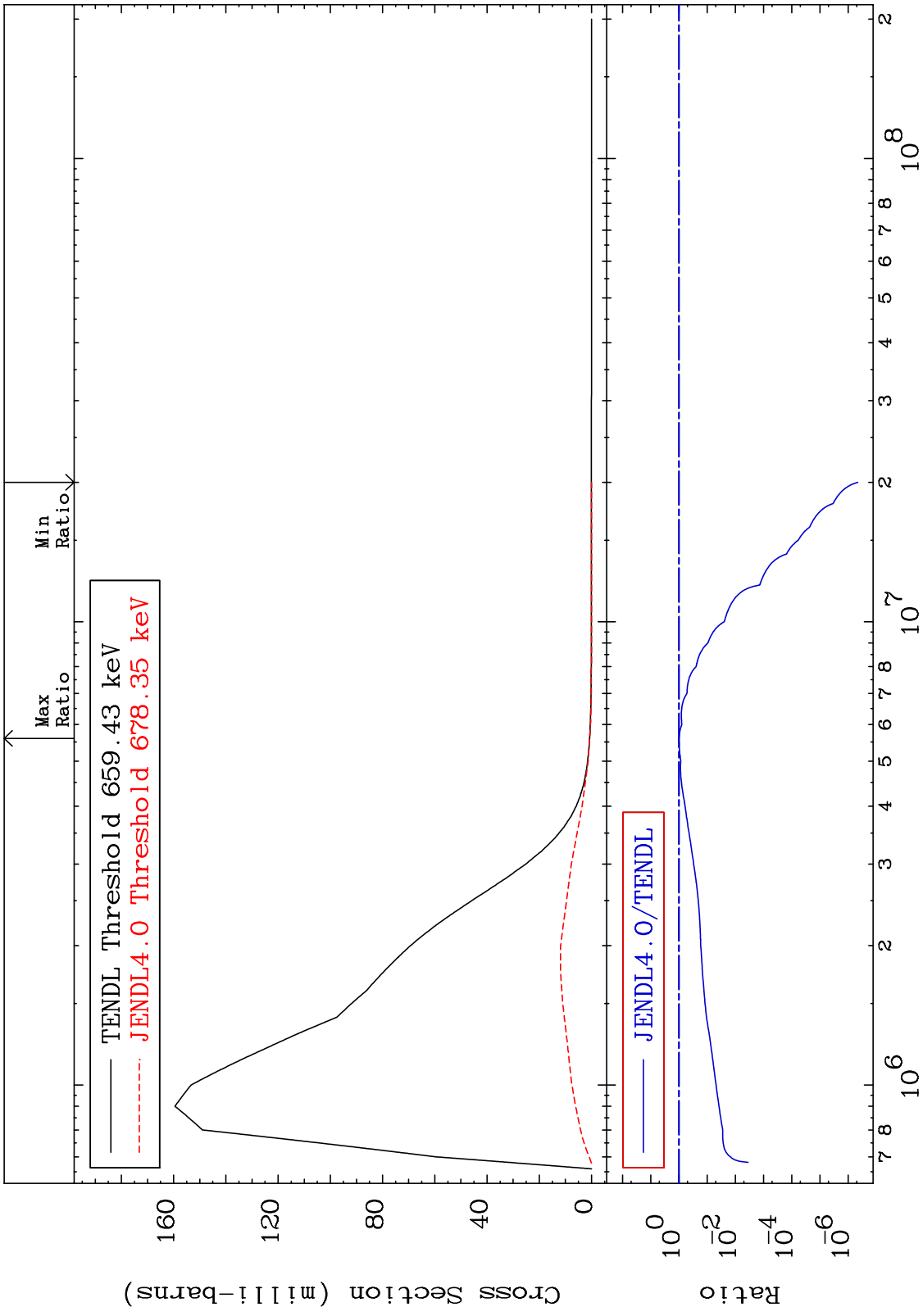
MAT 4325 MT= 57 (n,n') Level Cross Section -4.889 To 9999. % 43-Tc-99



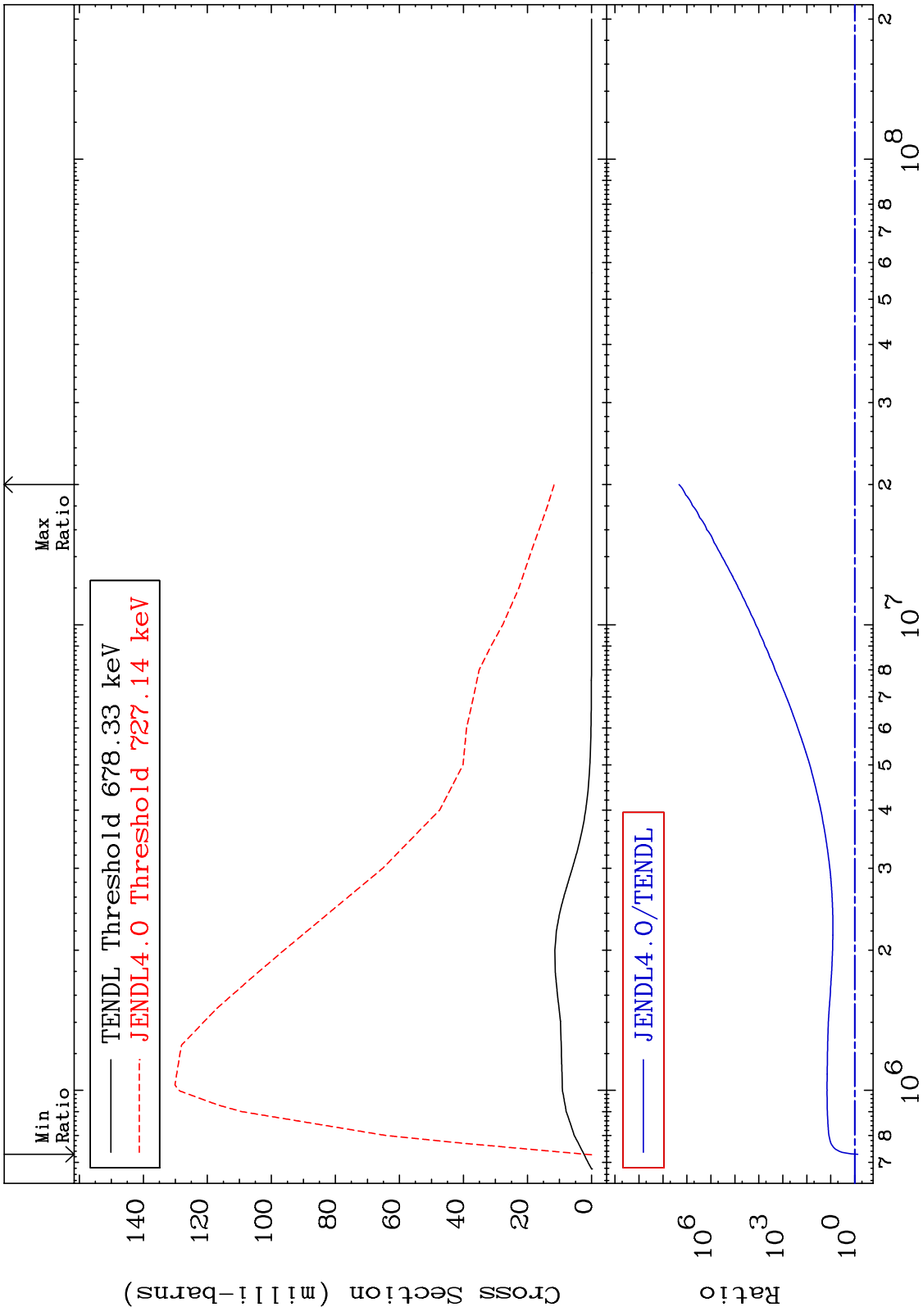
MAT 4325 MT= 58 (n,n') Level Cross Section -28.08 To 186.7 % 43-Tc-99



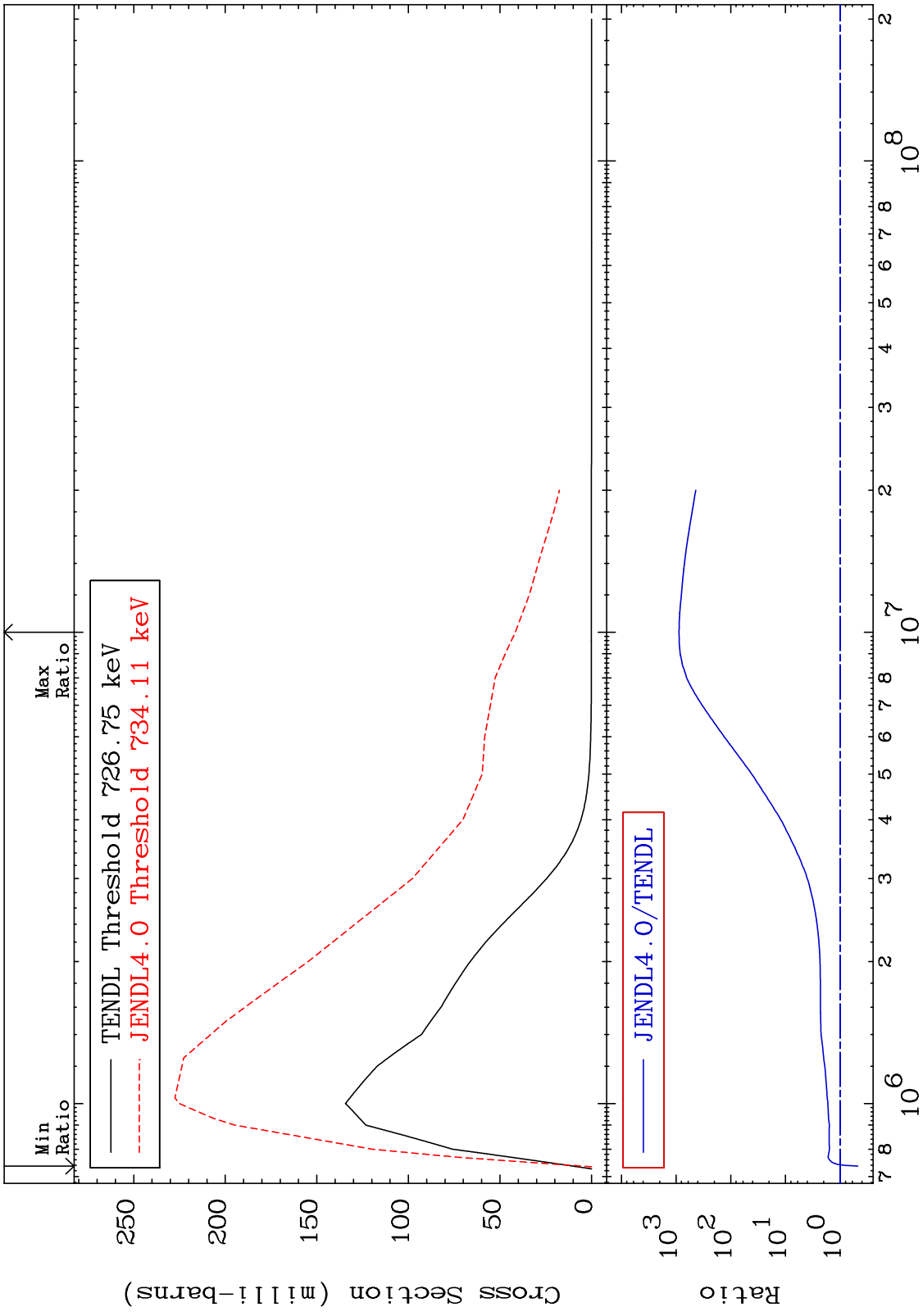
MAT 4325 MT= 59 (n,n') Level Cross Section -100.0 To 0.214 % 43-Tc-99



MAT 4325 MT= 60 (n,n') Level Cross Section 43-Tc-99
 -26.02 To 9999. %

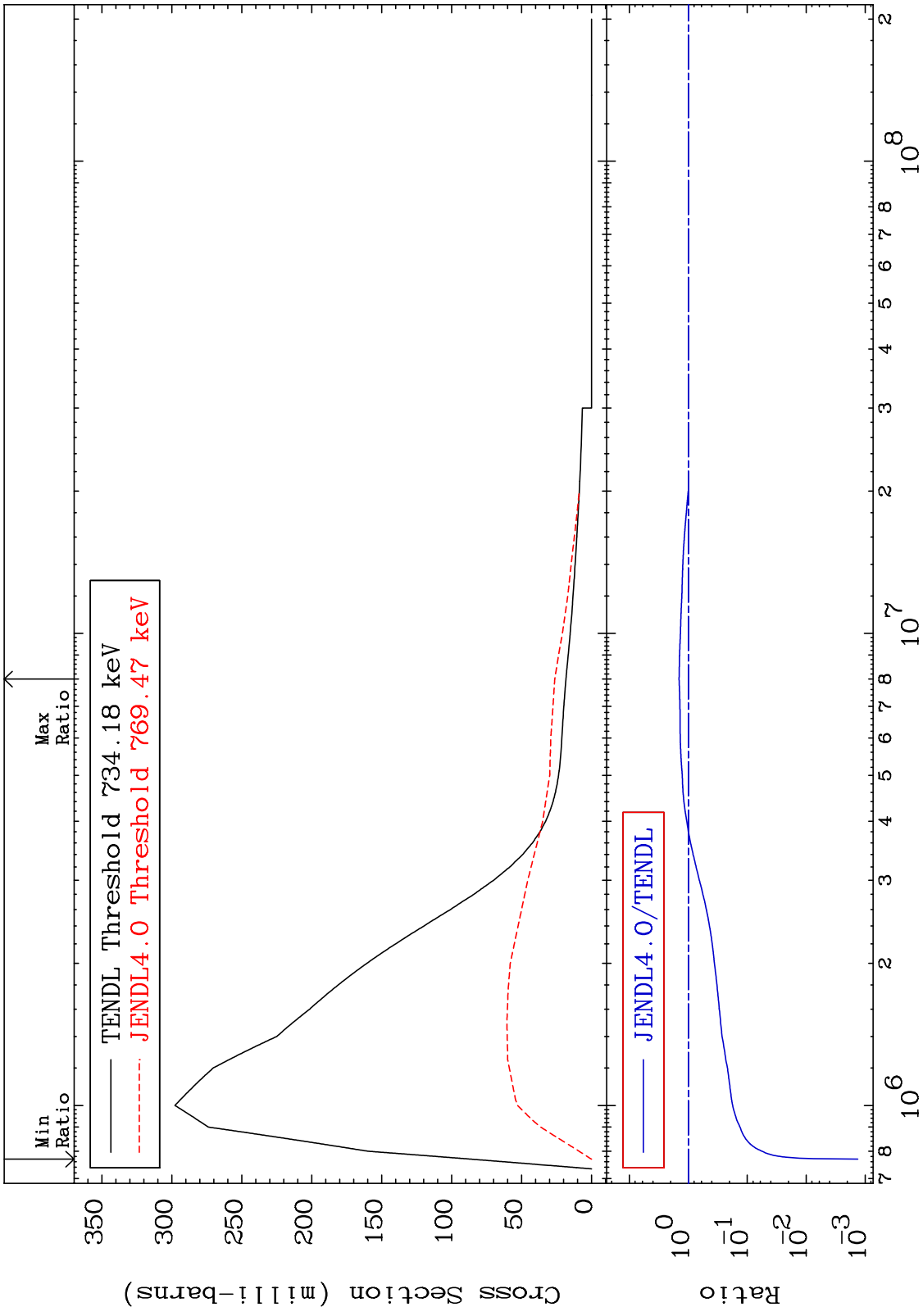


MAT 4325 MT= 61 (n,n') Level Cross Section -52.44 To 9999. % 43-Tc-99

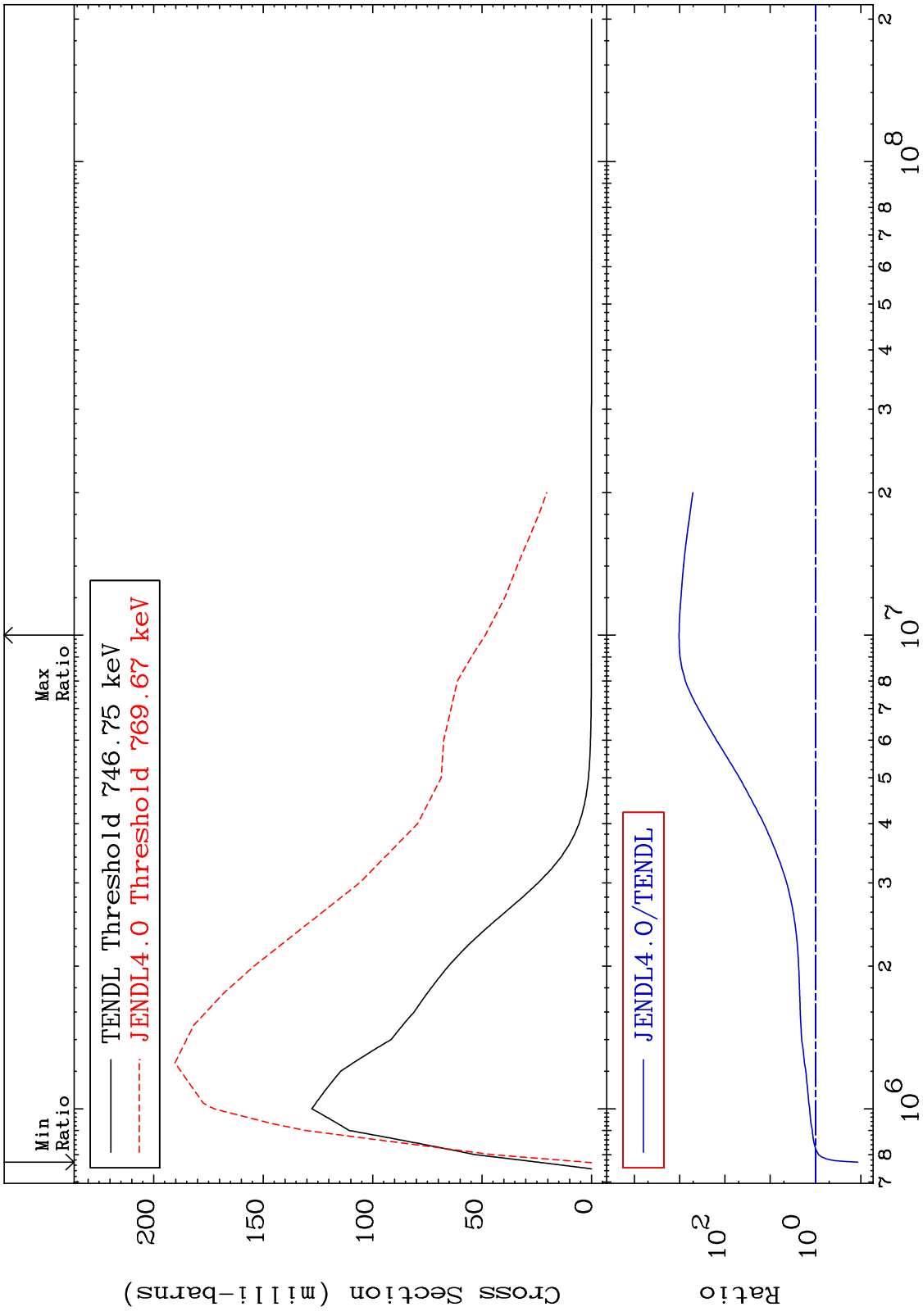


20 Incident Energy (eV) 43-Tc-99

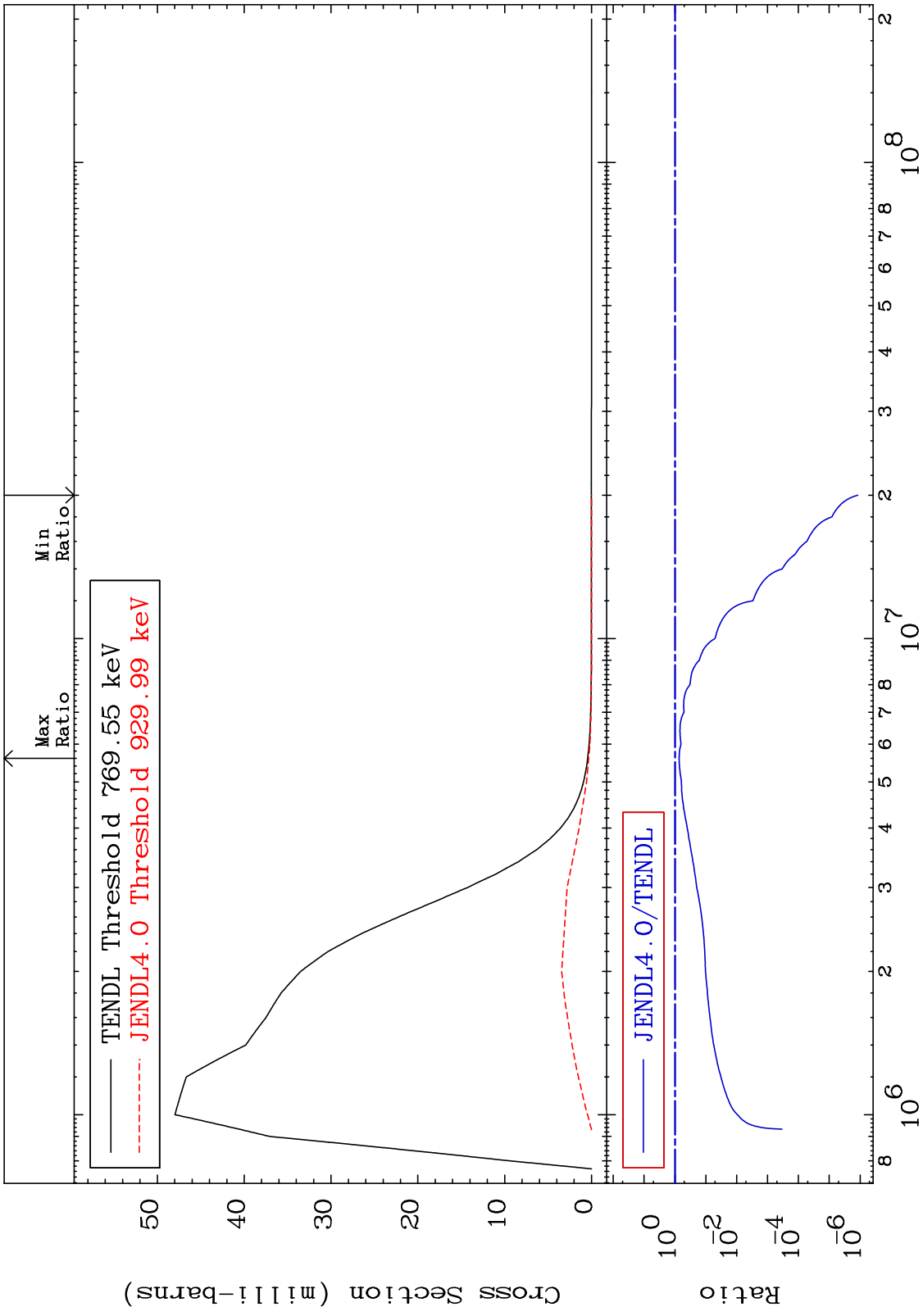
MAT 4325 MT= 62 (n,n') Level Cross Section 43-Tc-99
 -99.87 To 43.89 %



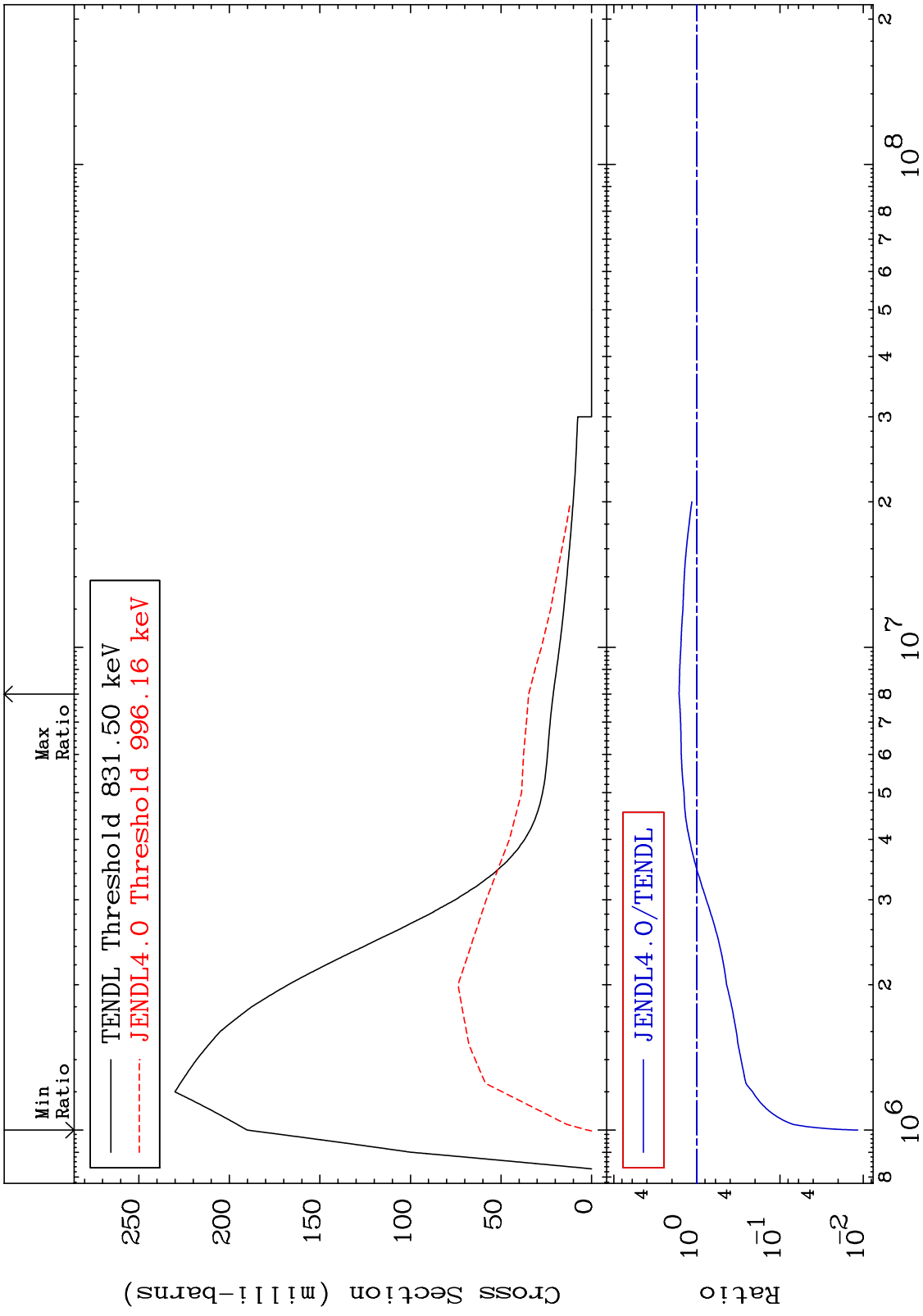
MAT 4325 MT= 63 (n,n') Level Cross Section -88.37 To 9999. % 43-Tc-99



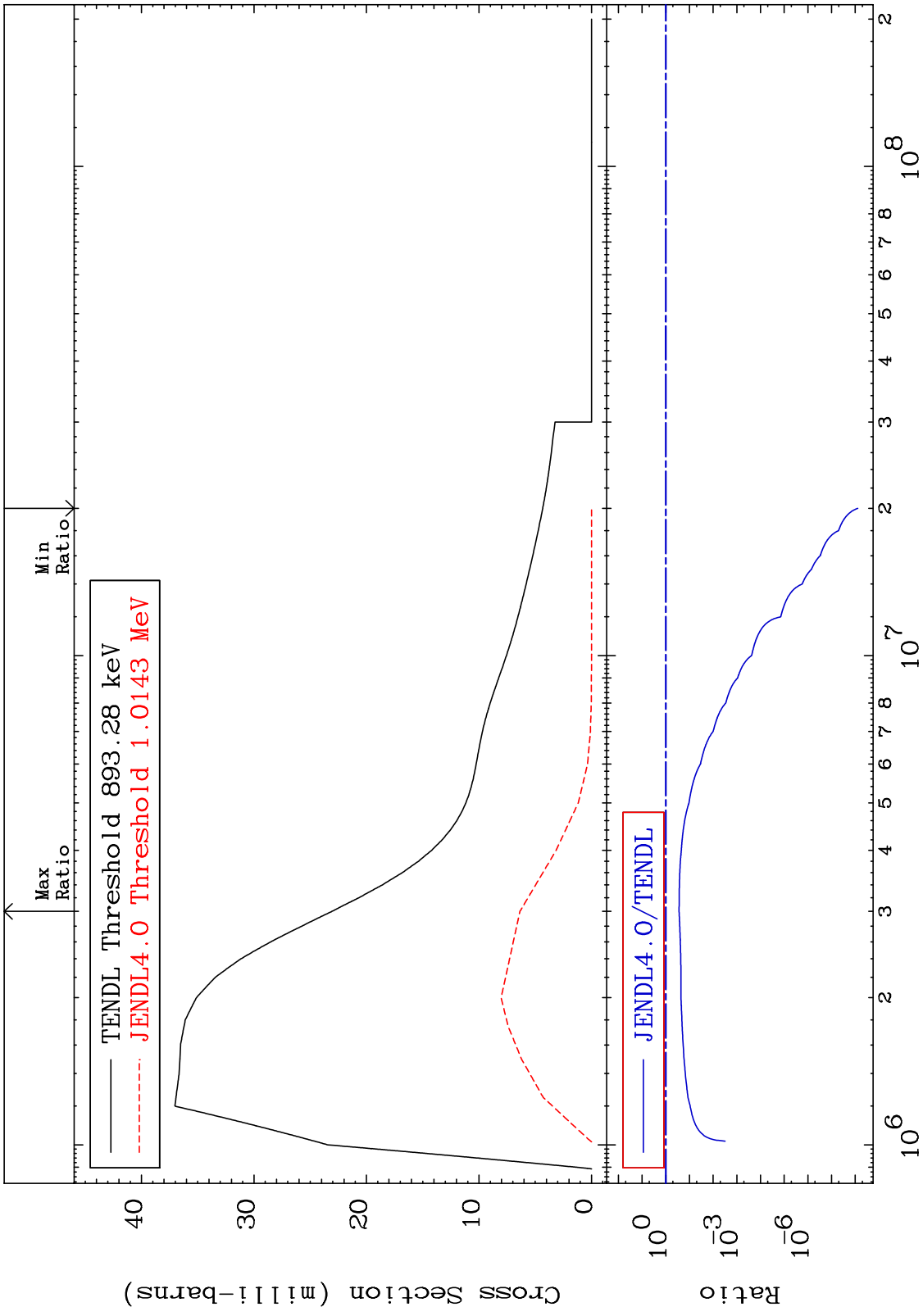
MAT 4325 MT= 64 (n,n') Level Cross Section 43-Tc-99
 -100.0 To -26.31%



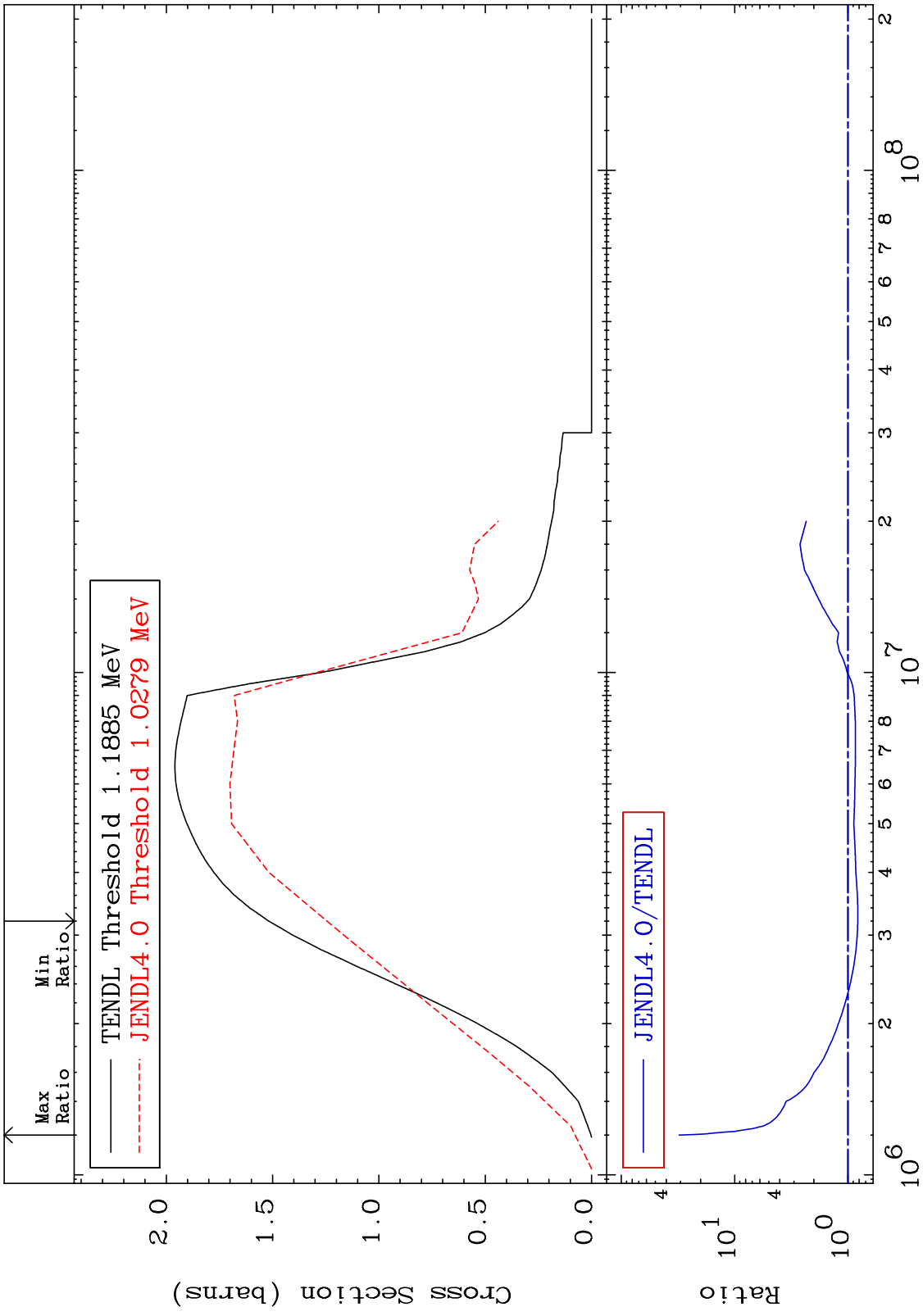
MAT 4325 MT= 65 (n,n') Level Cross Section 43-Tc-99
 -98.84 To 64.14 %



MAT 4325 MT= 66 (n,n') Level Cross Section -100.0 To -72.43% 43-Tc-99



25 Incident Energy (eV) 43-Tc-99



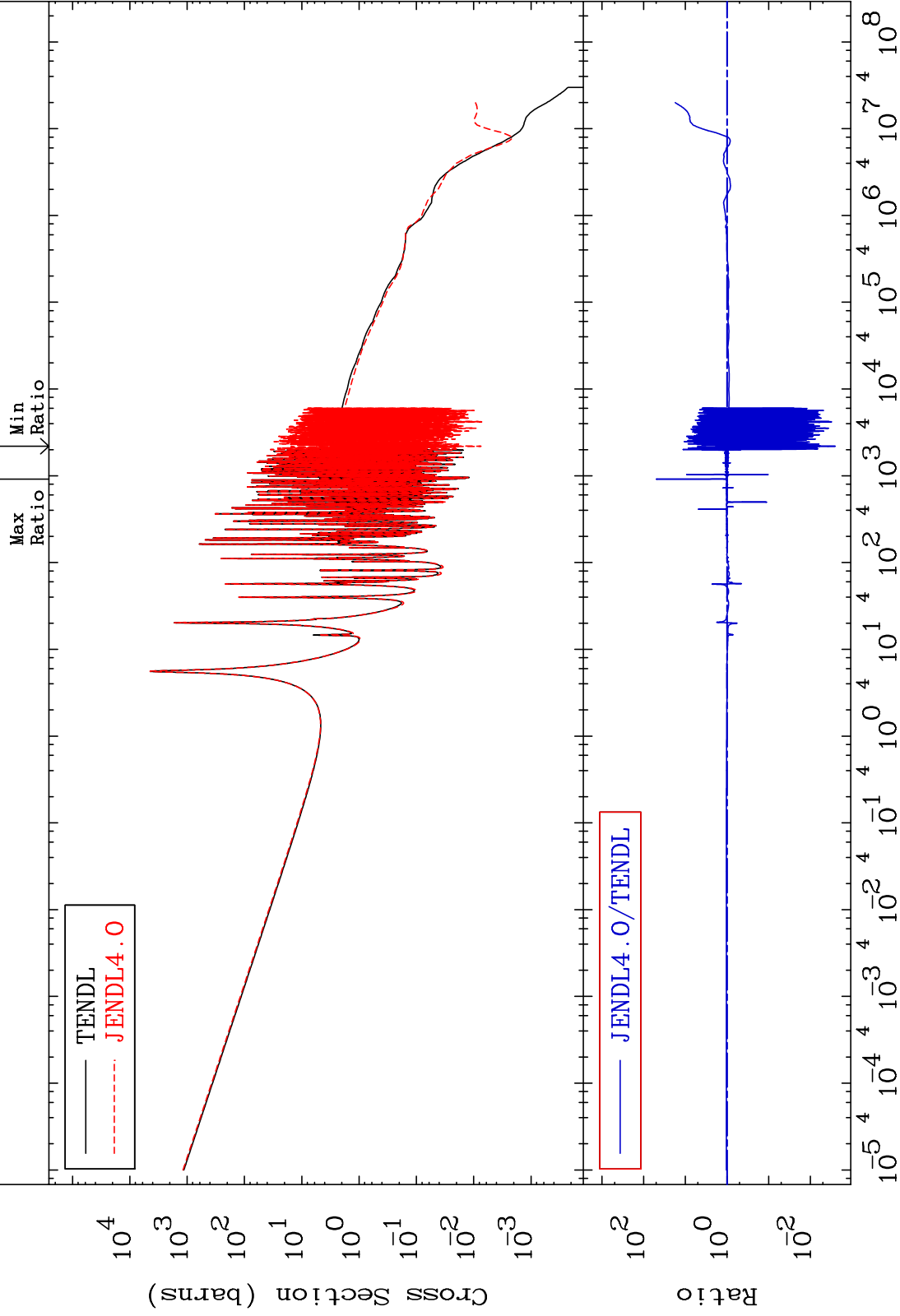
MAT 4325

(n, γ)

43-Tc-99

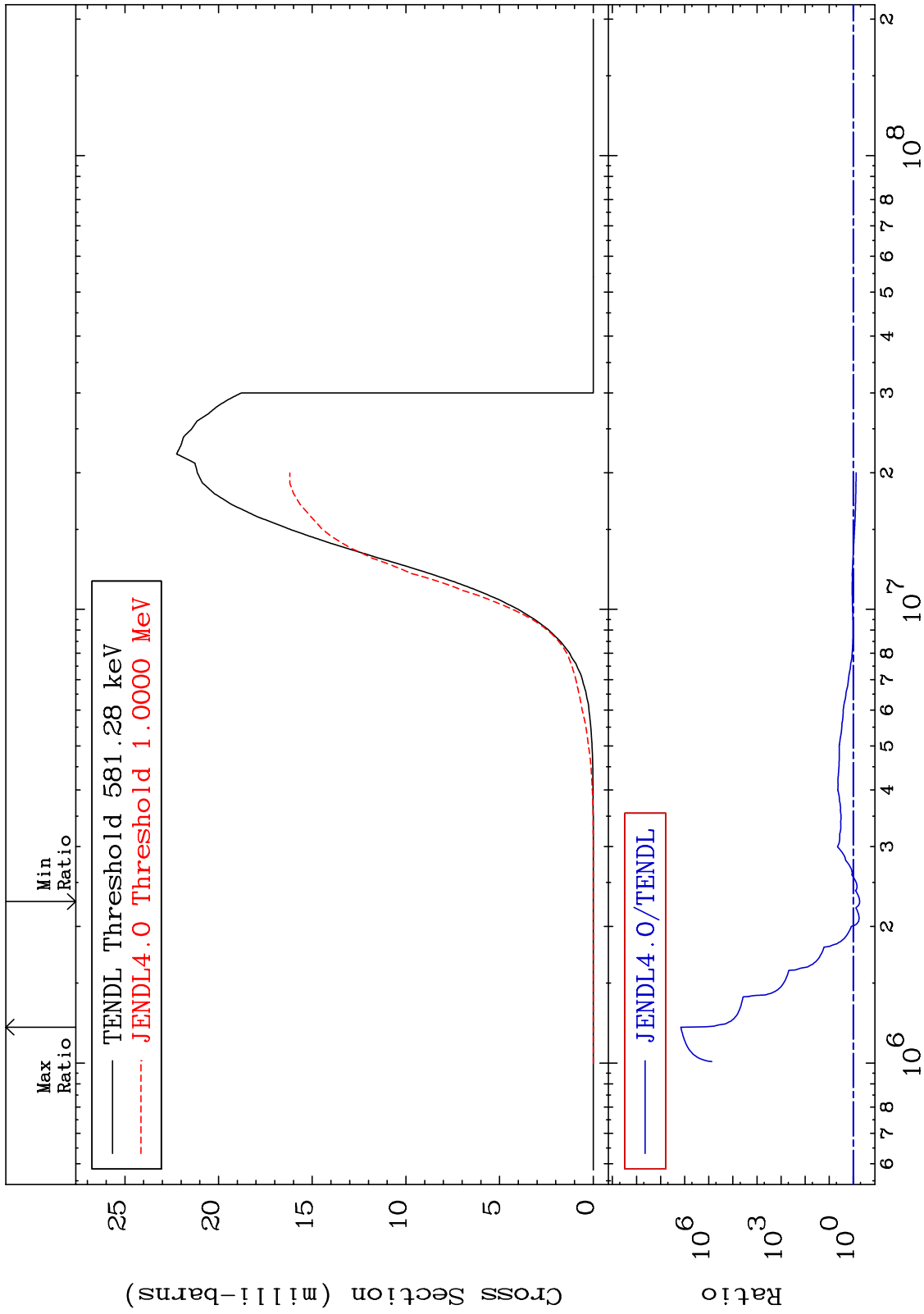
-99.75 To 4967. %

Cross Section



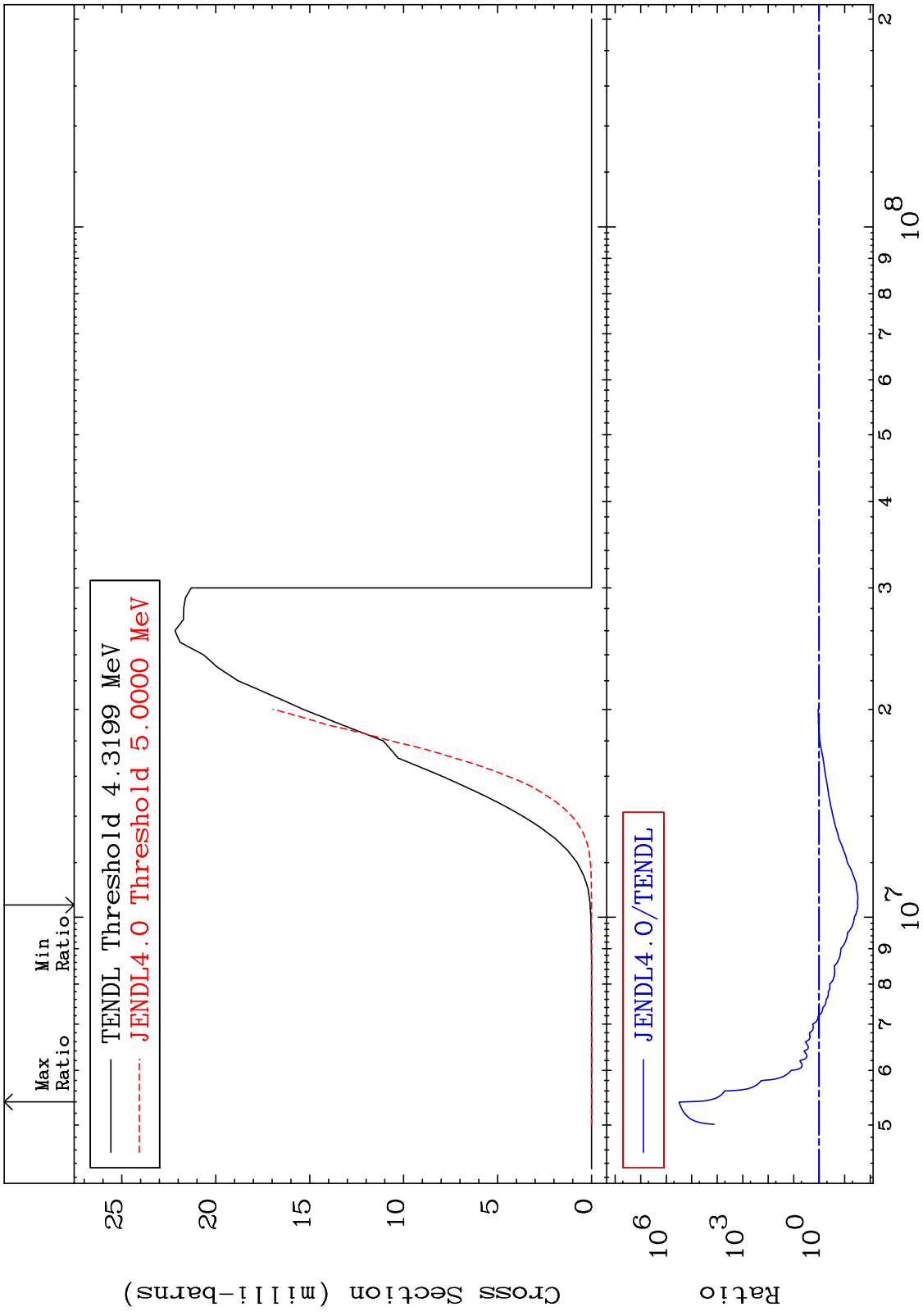
MAT 4325 (n,p) 43-Tc-99

Cross Section -45.33 To 9999. %

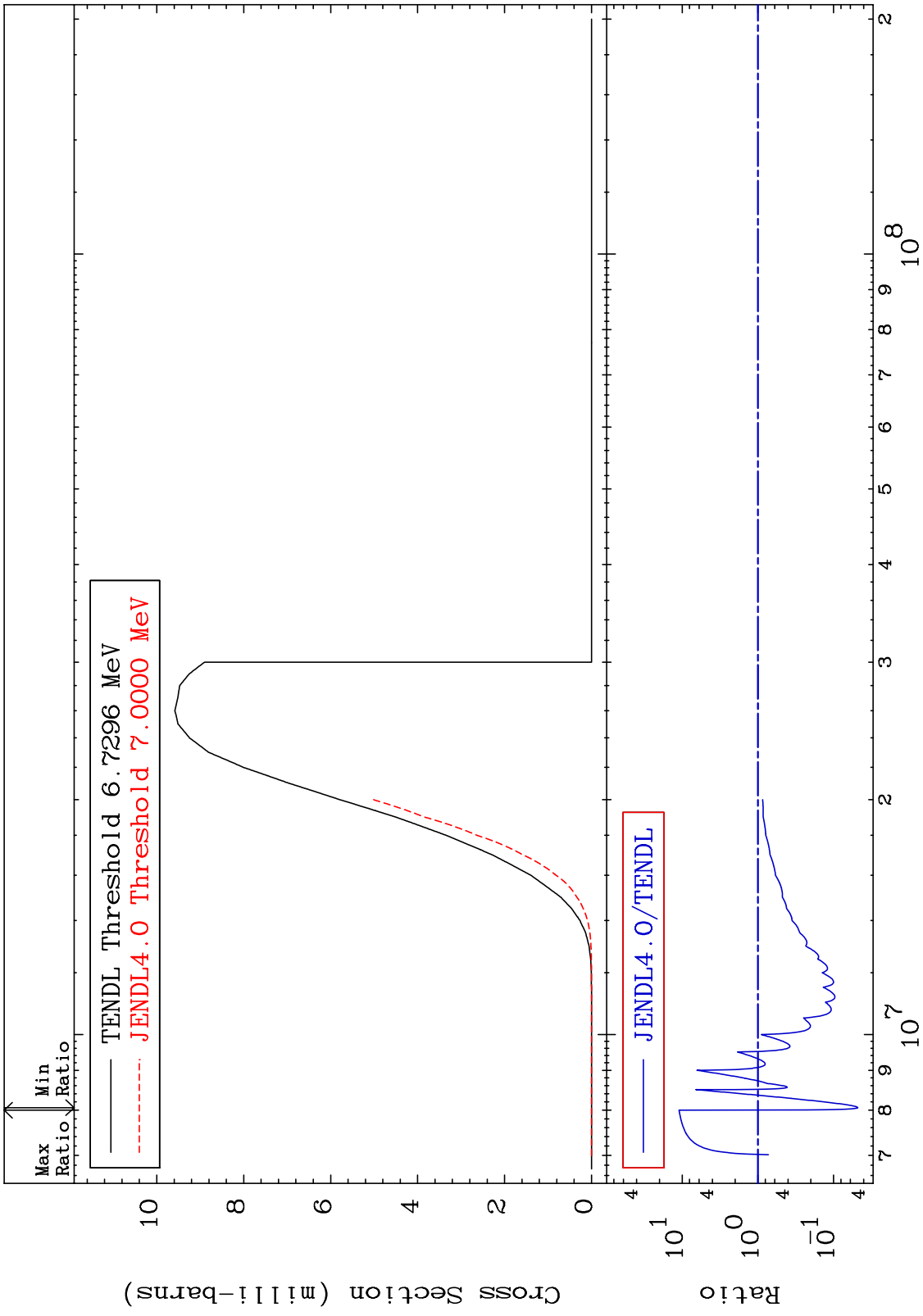


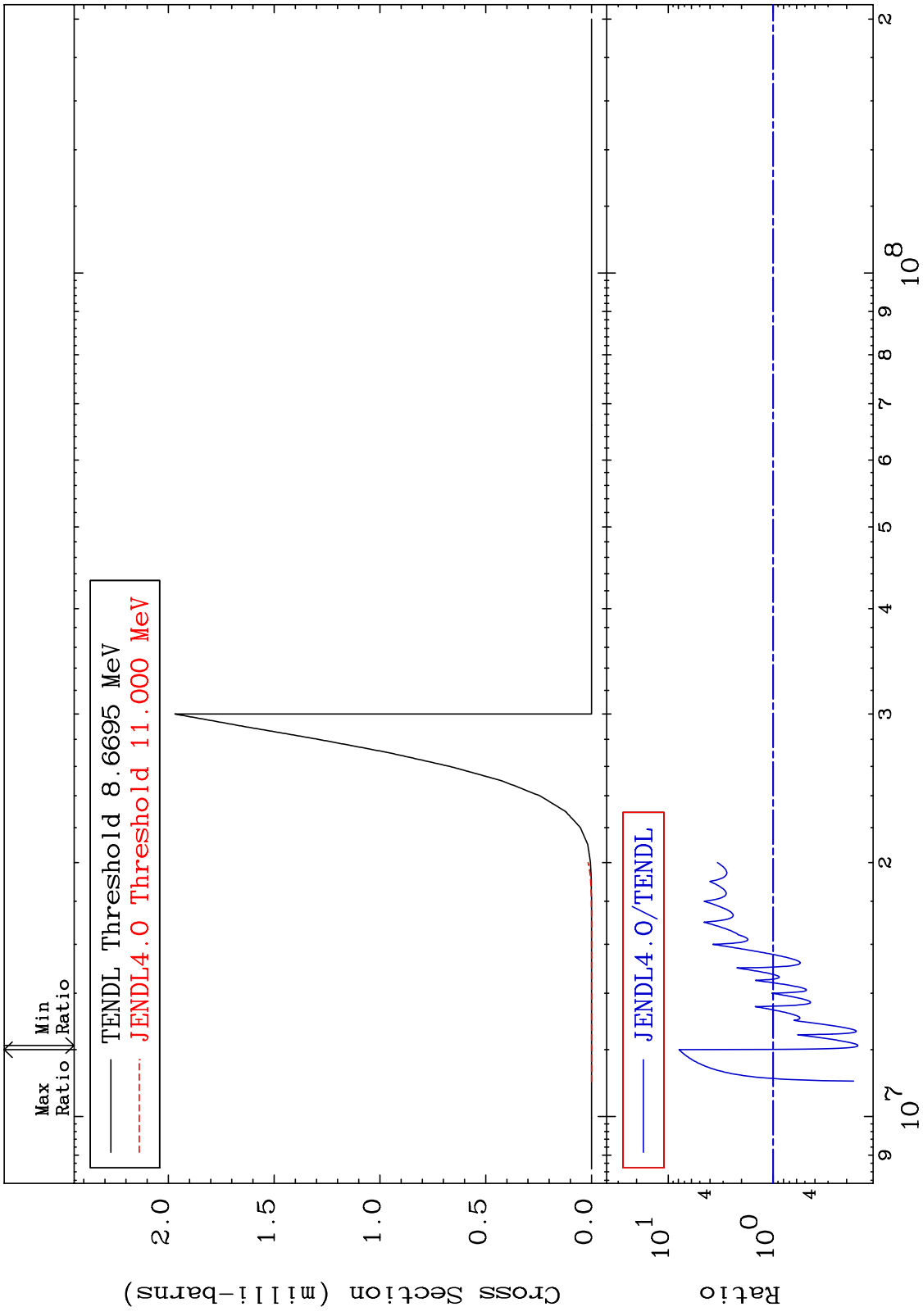
43-Tc-99

Incident Energy (eV)



MAT 4325 (n,t) 43-Tc-99
 Cross Section -95.22 To 1002. %





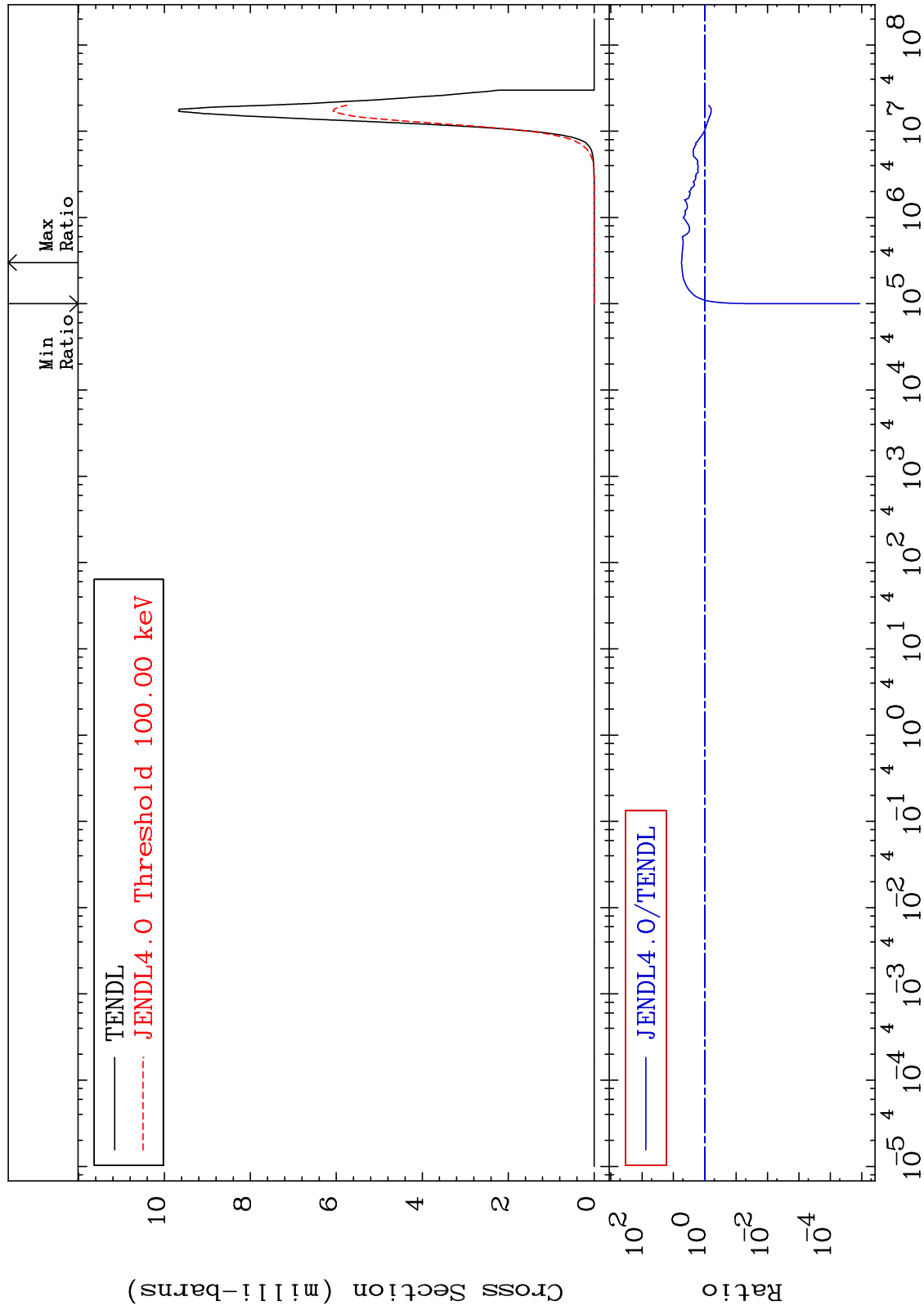
MAT 4325

(n, α)

43-Tc-99

Cross Section

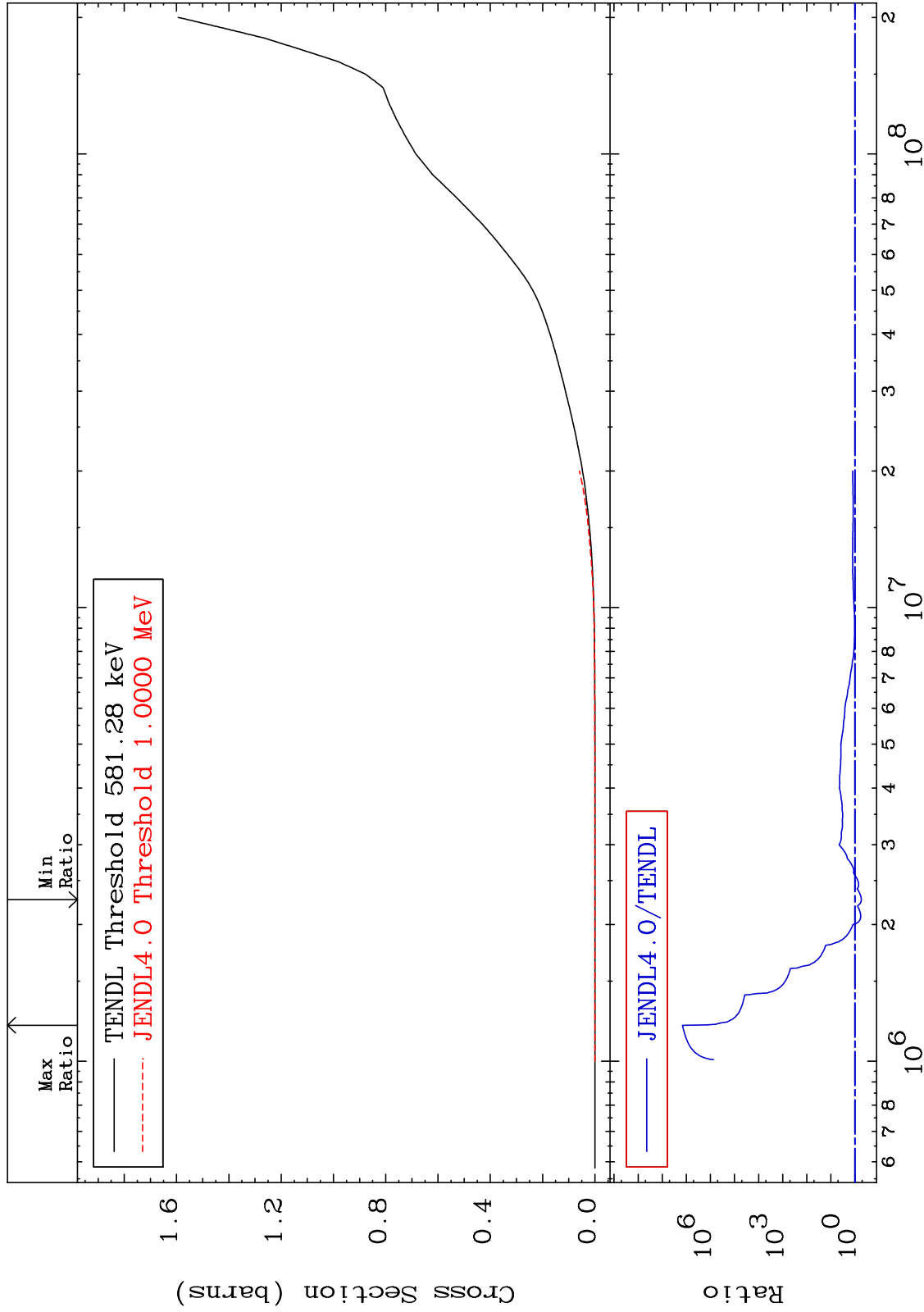
-100.0 To 454.2 %

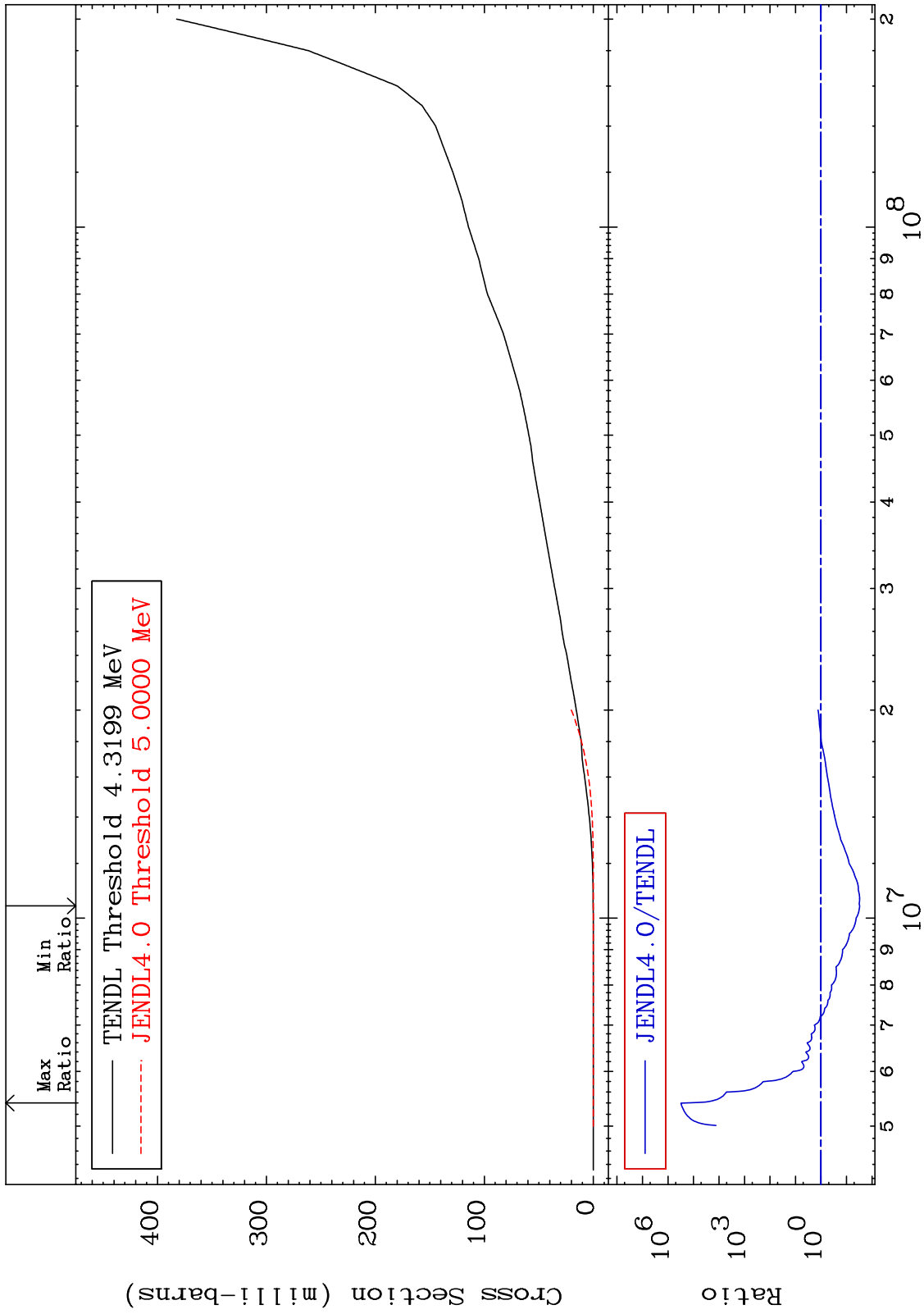


MAT 4325

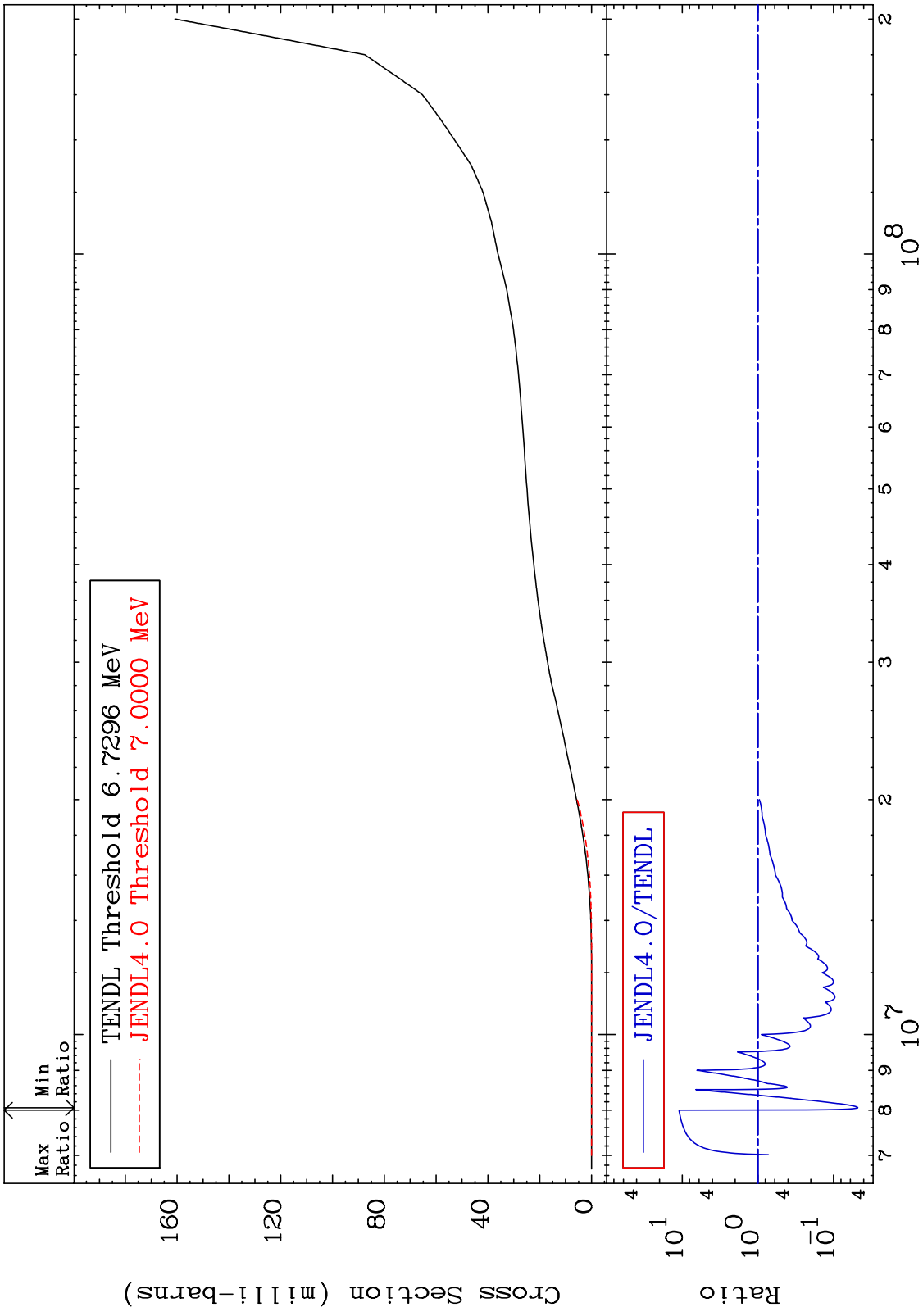
Hydrogen Production
Cross Section

43-Tc-99
-45.33 To 9999. %





MAT 4325 Tritium Production Cross Section 43-Tc-99 -95.22 To 1002. %

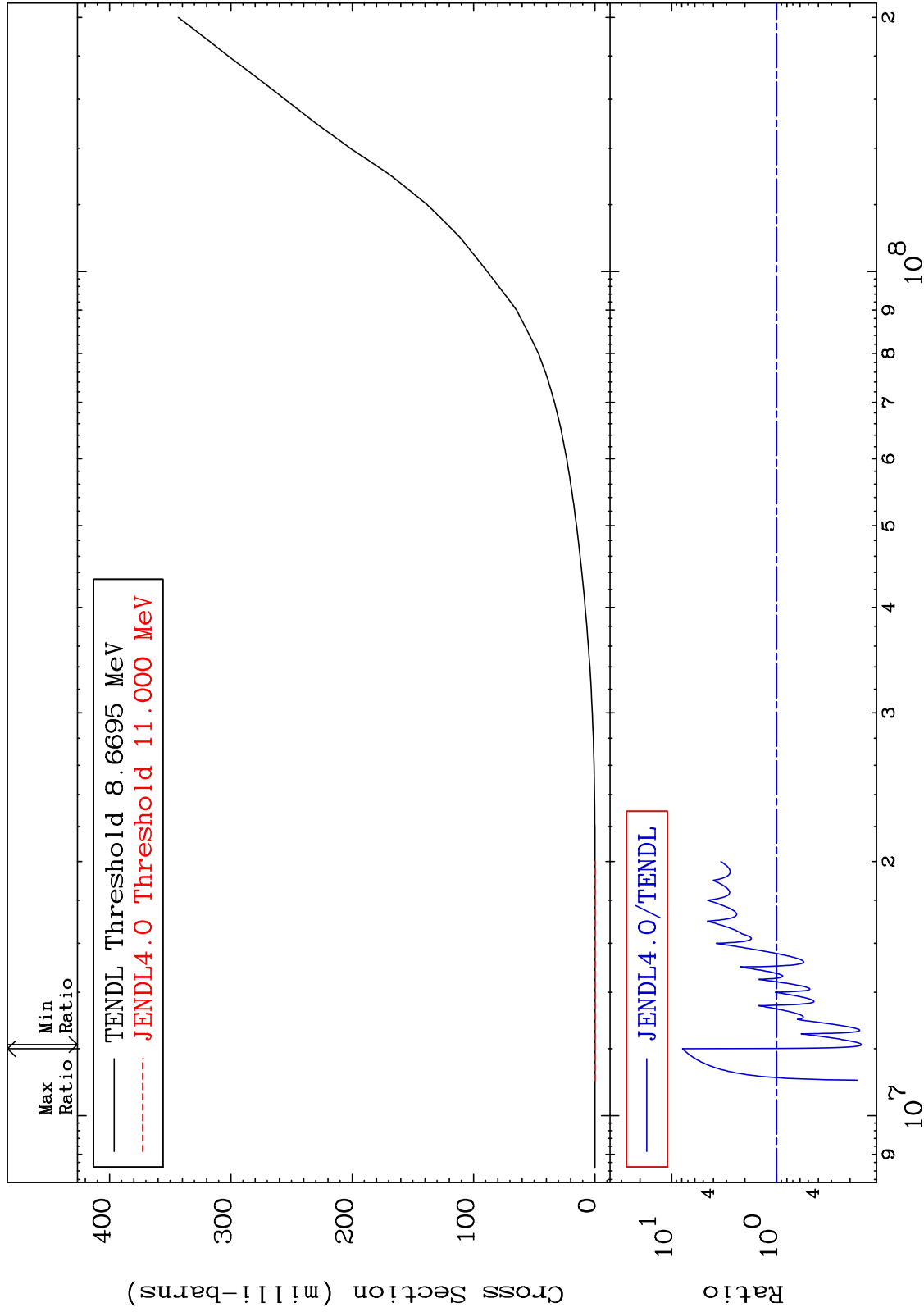


35 43-Tc-99

MAT 4325

He-3 Production
Cross Section

43-Tc-99
-84.39 To 689.0 %



36

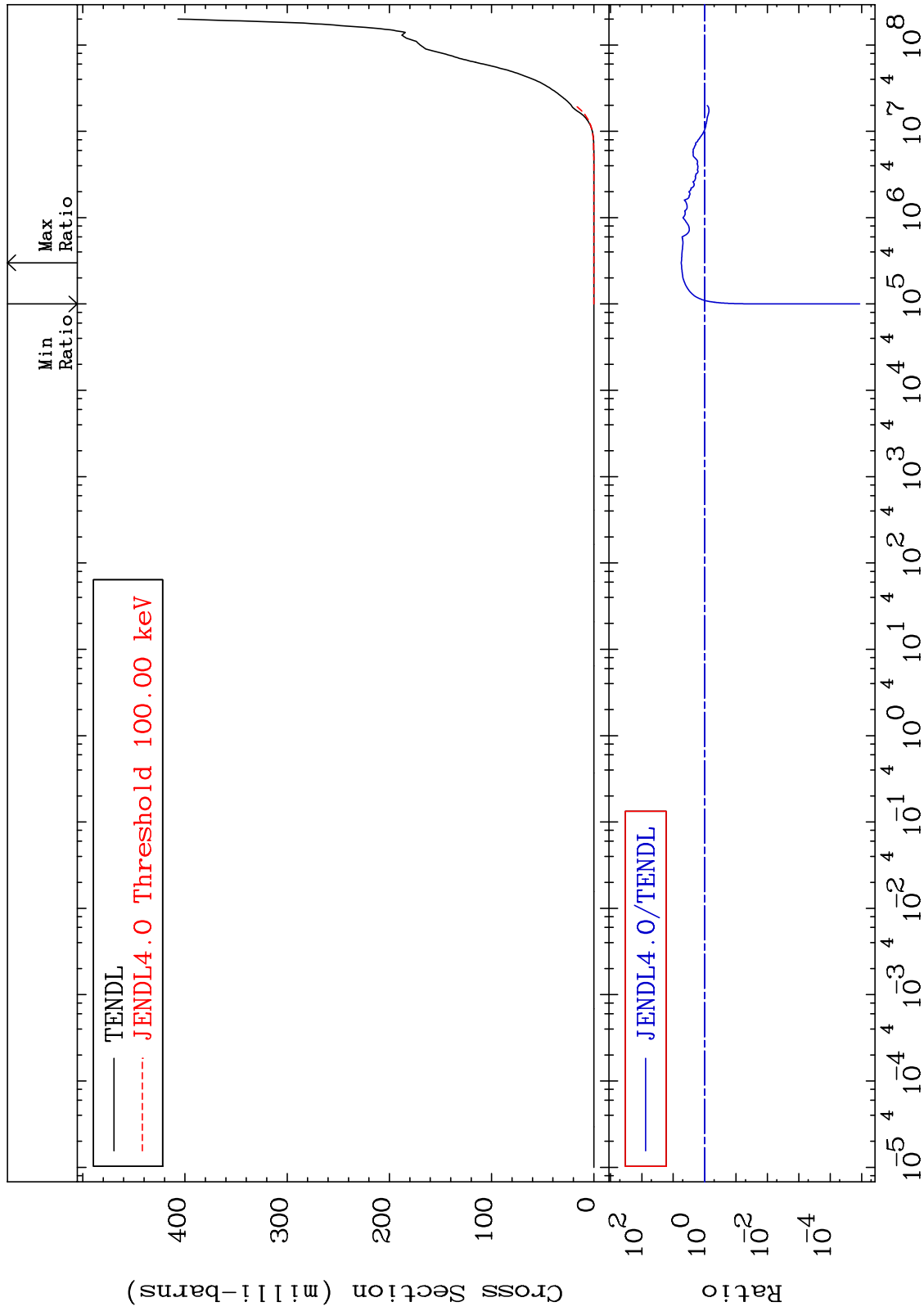
Incident Energy (eV)

43-Tc-99

MAT 4325

He-4 Production
Cross Section

43-Tc-99
-100.0 To 454.2 %

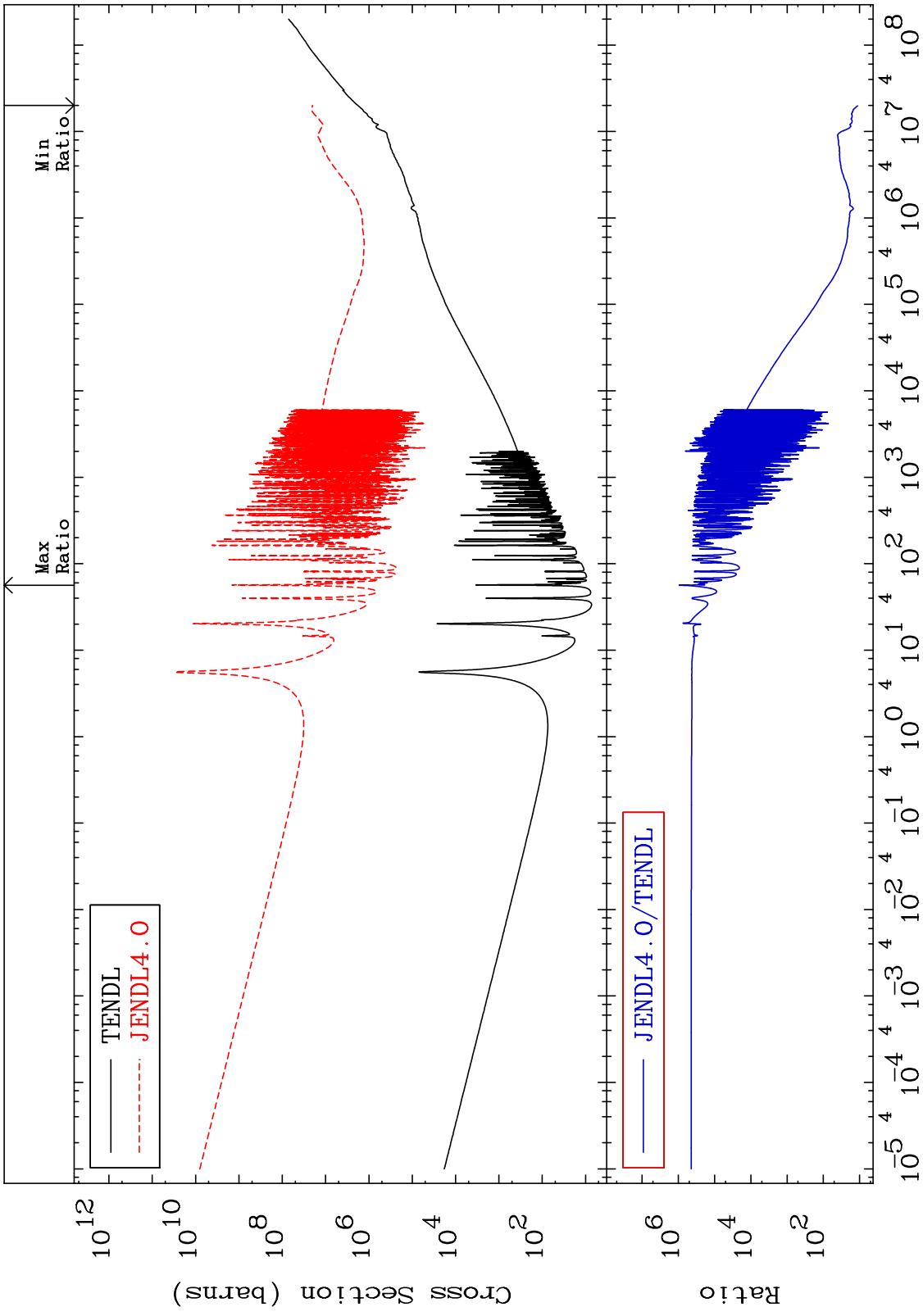


37

Incident Energy (eV)

43-Tc-99

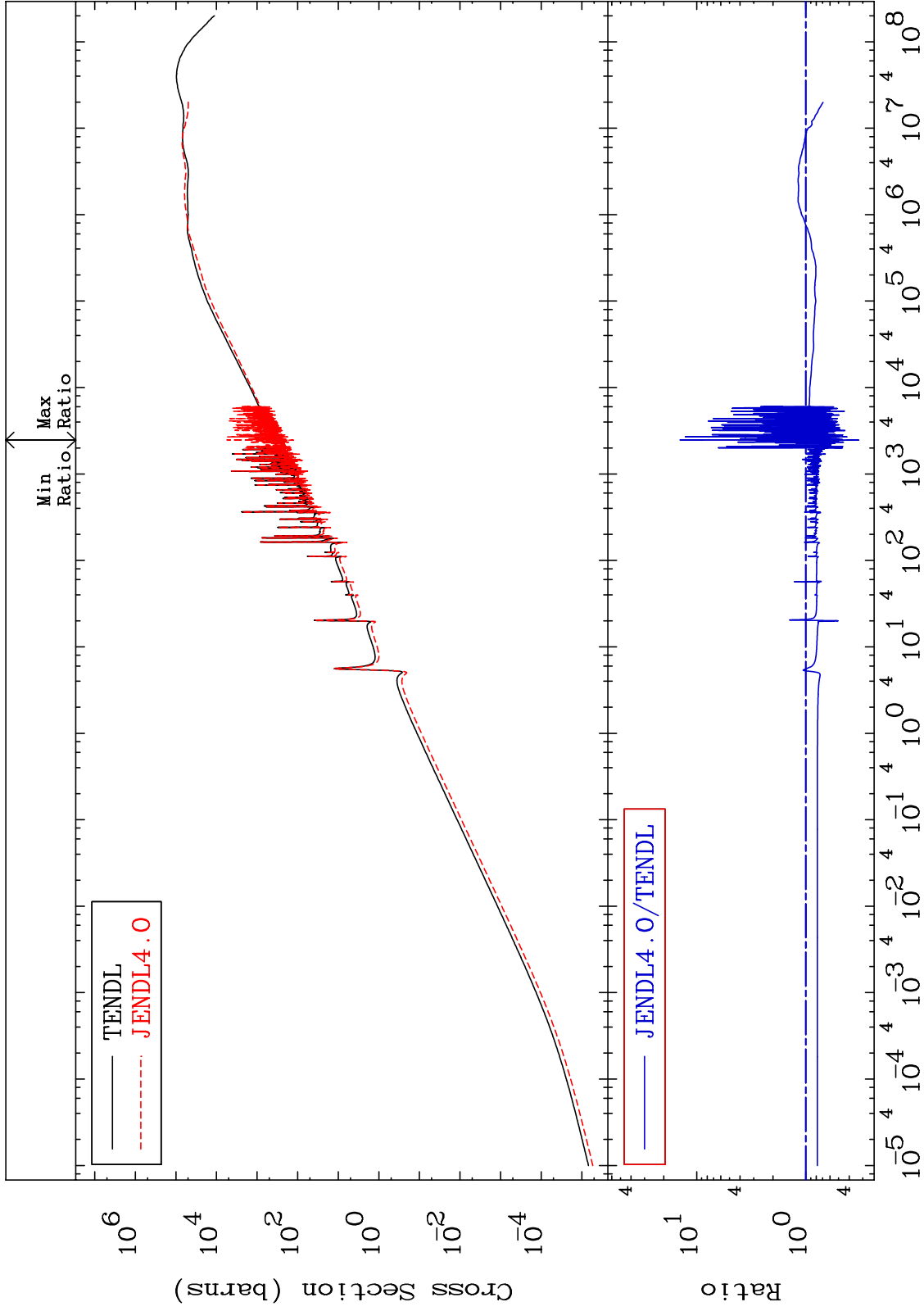
MAT 4325 Kerma total (eV-barns) Cross Section 43-Tc-99
 1017. To 9999. %



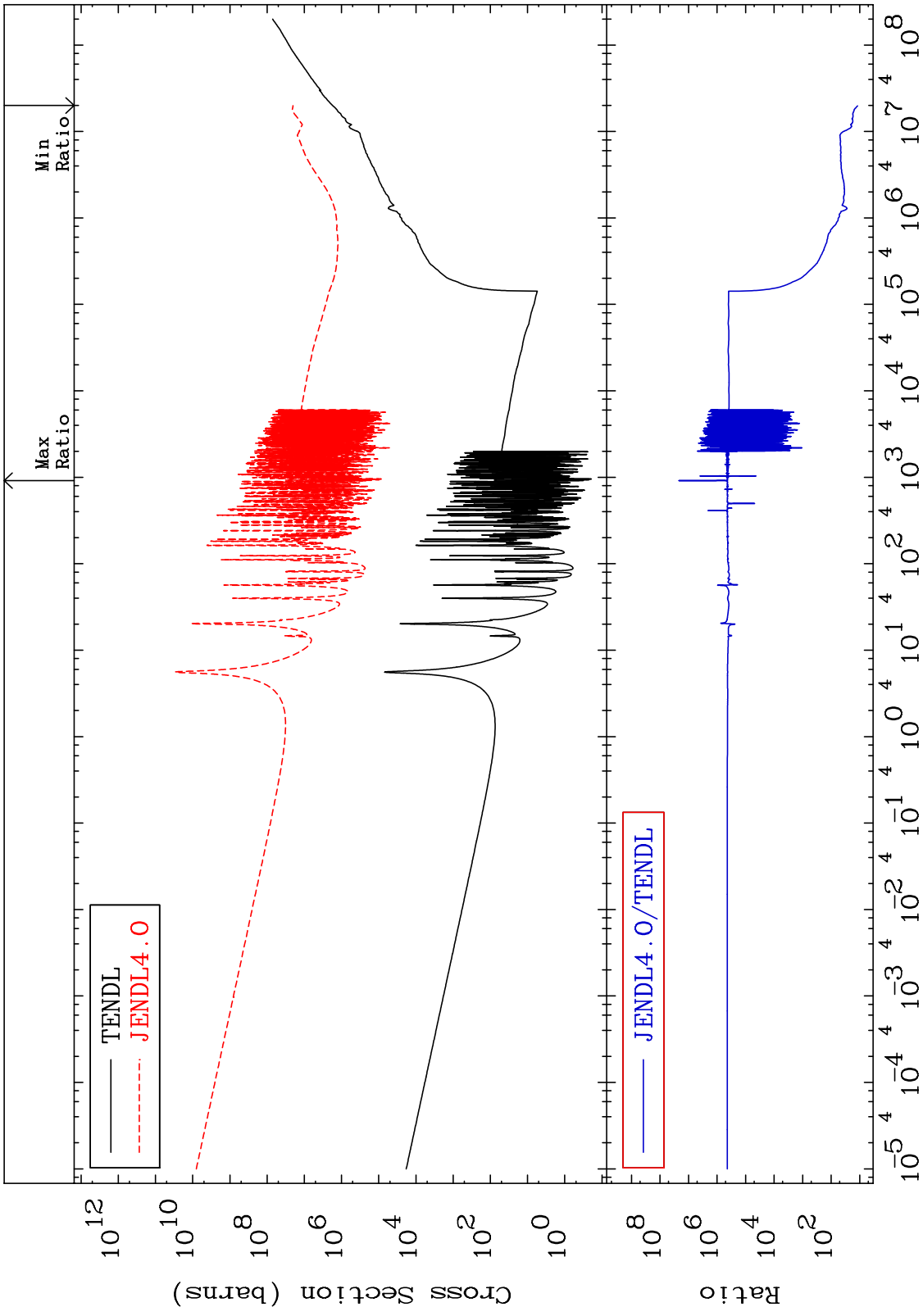
MAT 4325

Kerma elastic
Cross Section

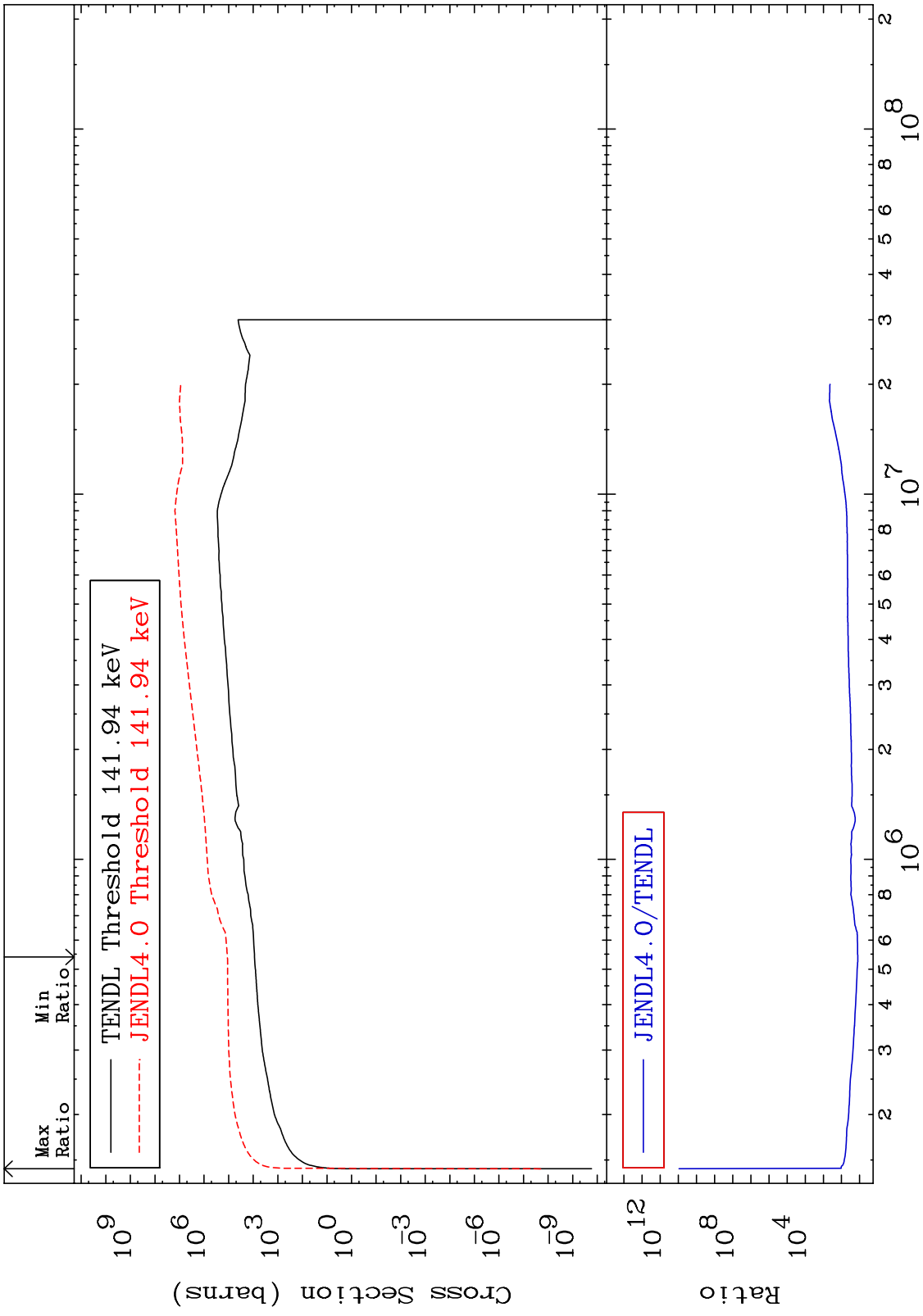
43-Tc-99
-67.42 To 1315. %



MAT 4325 Kerma non-elastic (all but mt2) 43-Tc-99
Cross Section 1061. To 9999. %



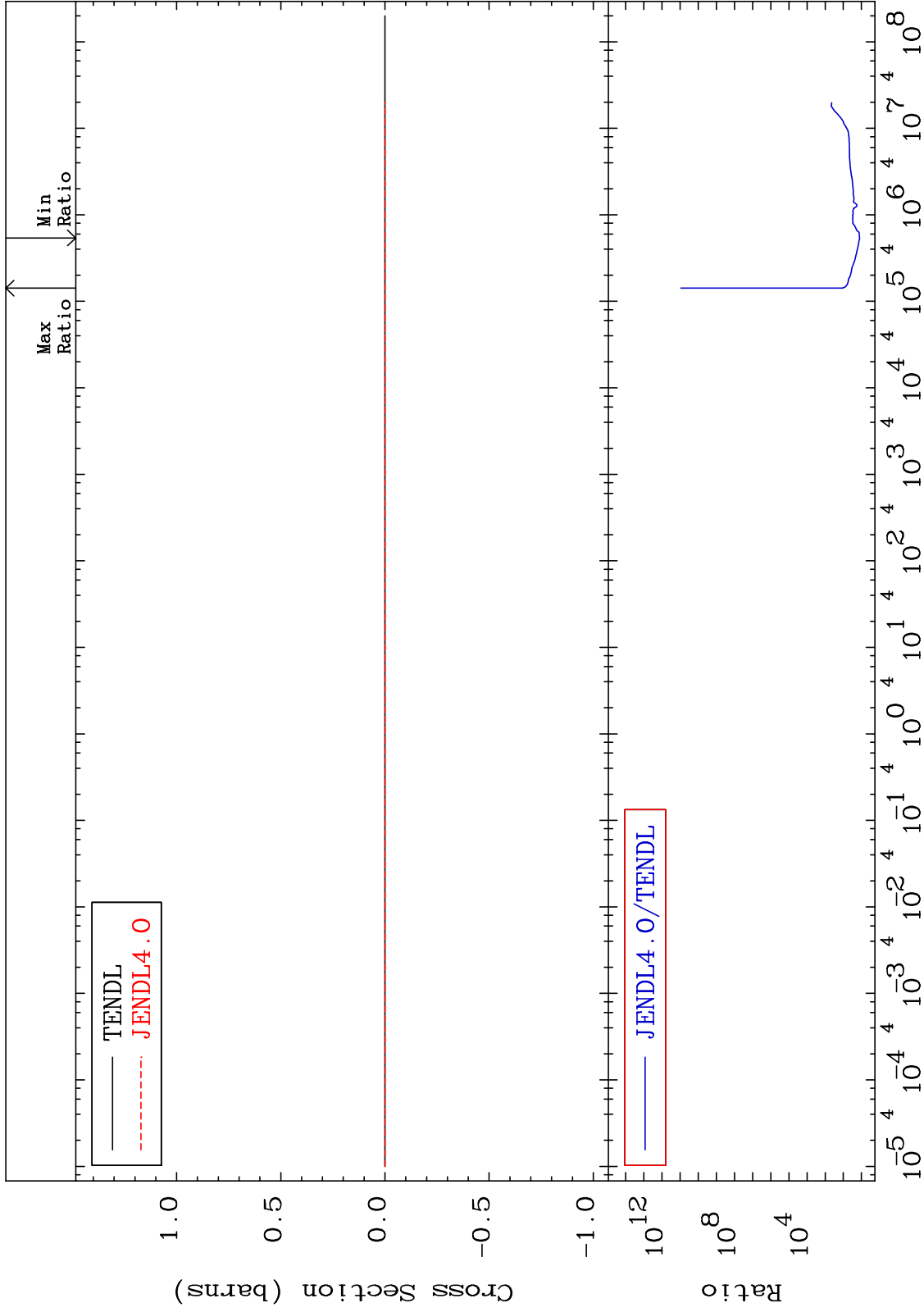
MAT 4325 Kerma inelastic (mt51-91) 43-Tc-99
 Cross Section 1154. To 9999. %

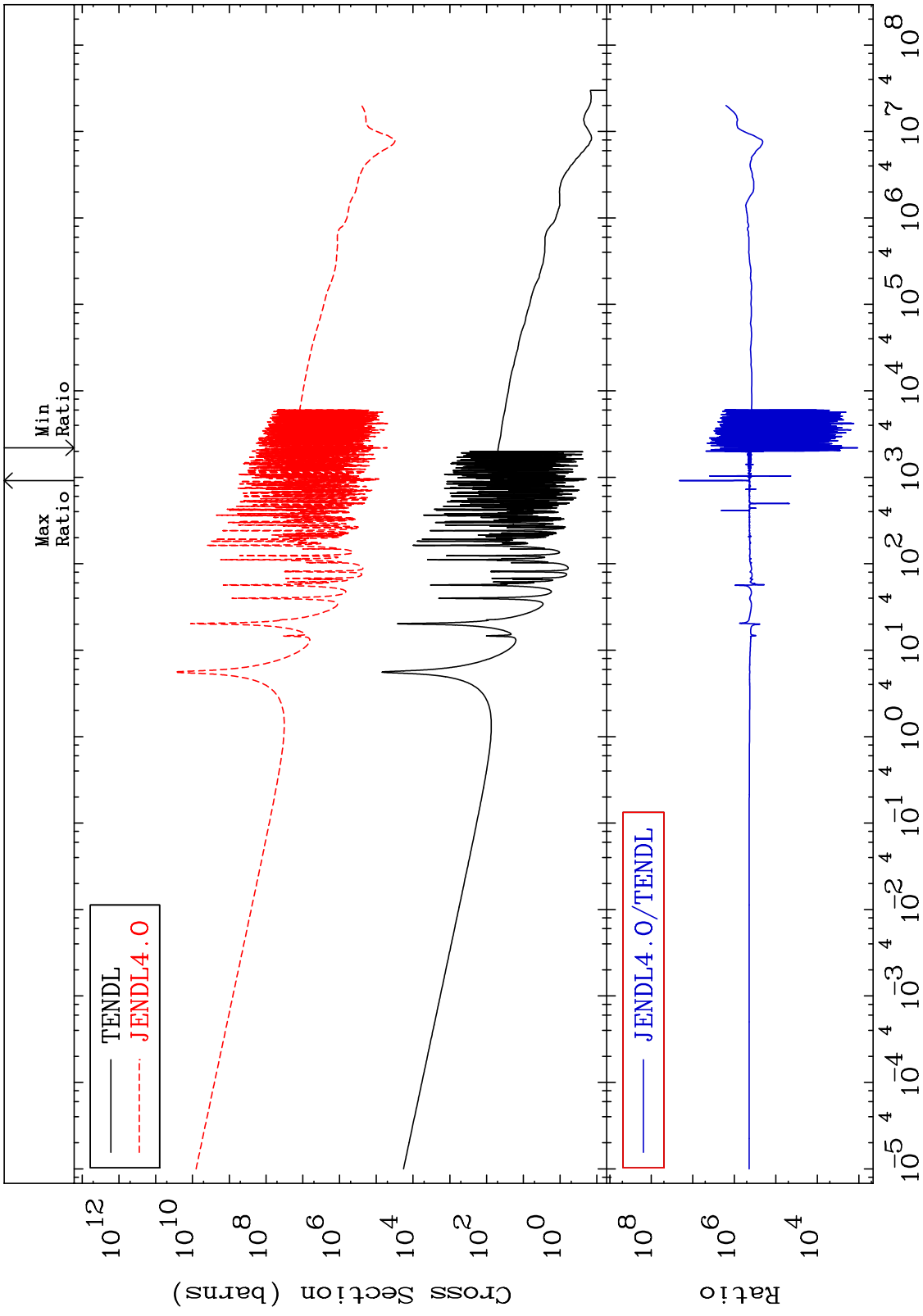


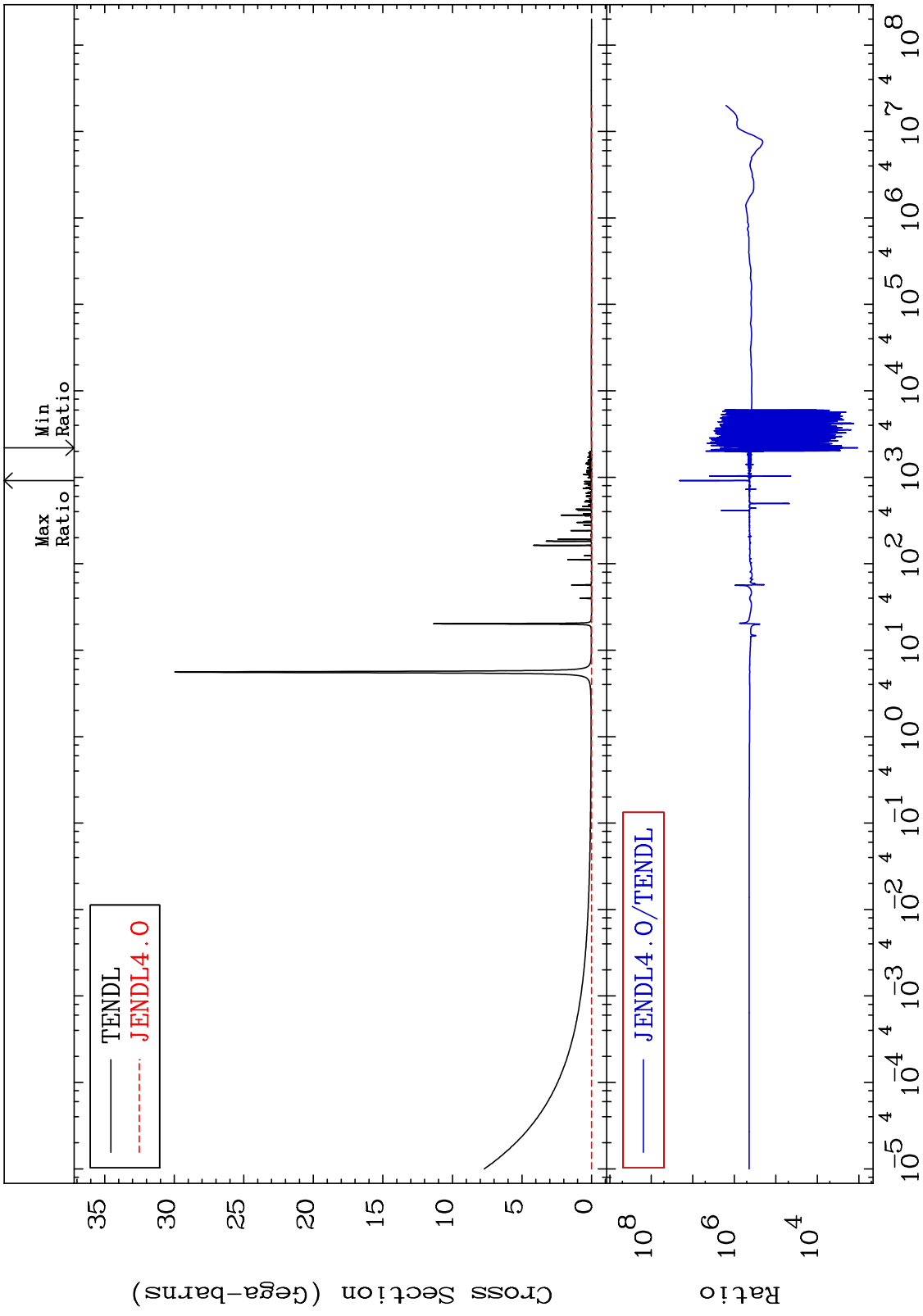
MAT 4325

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

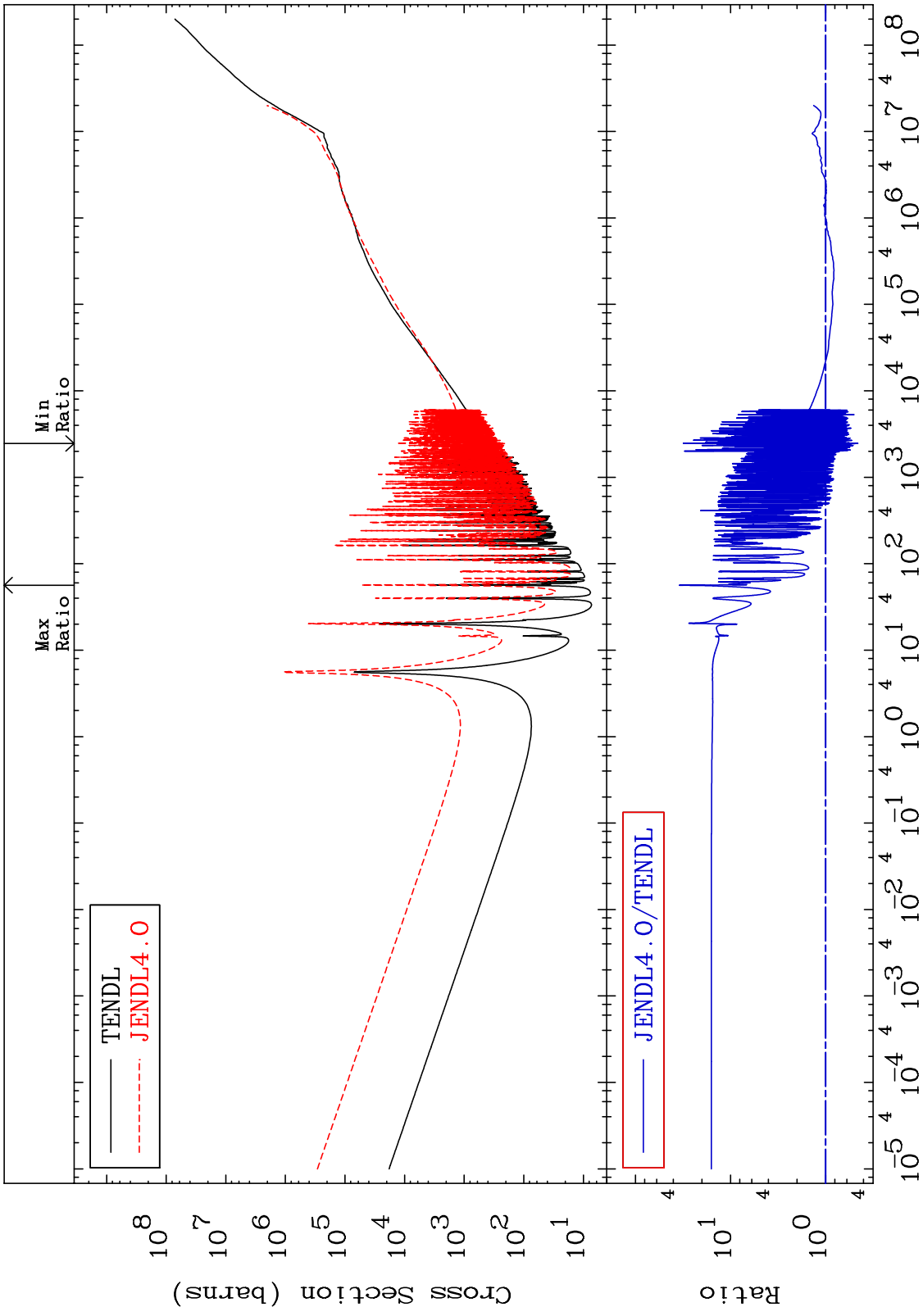
43-Tc-99
1154. To 9999. %







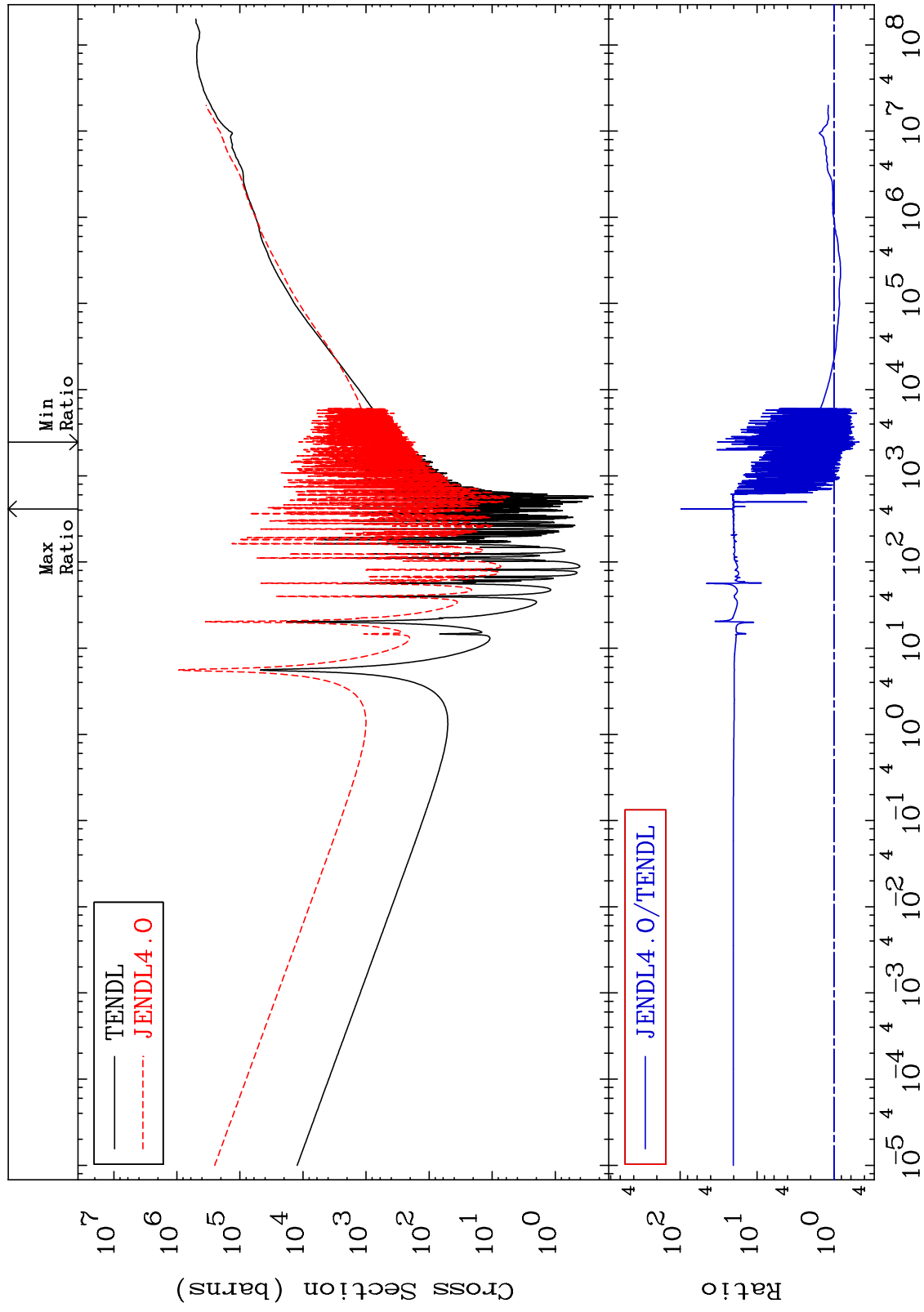
MAT 4325 Total kinematic kerma (high limit) 43-Tc-99
 -54.08 To 3385. %
 Cross Section



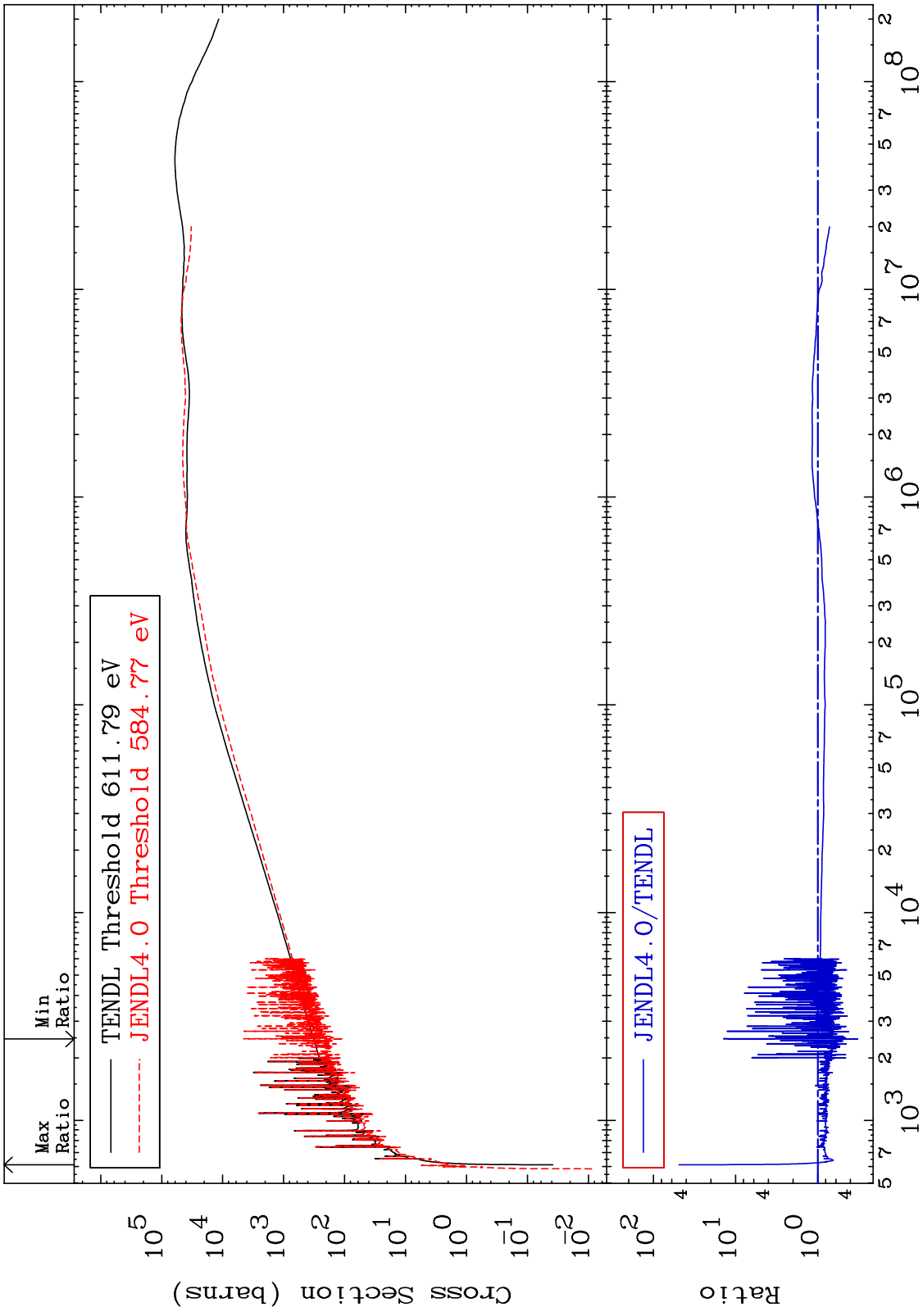
MAT 4325

Dpa total (eV-barns)
Cross Section

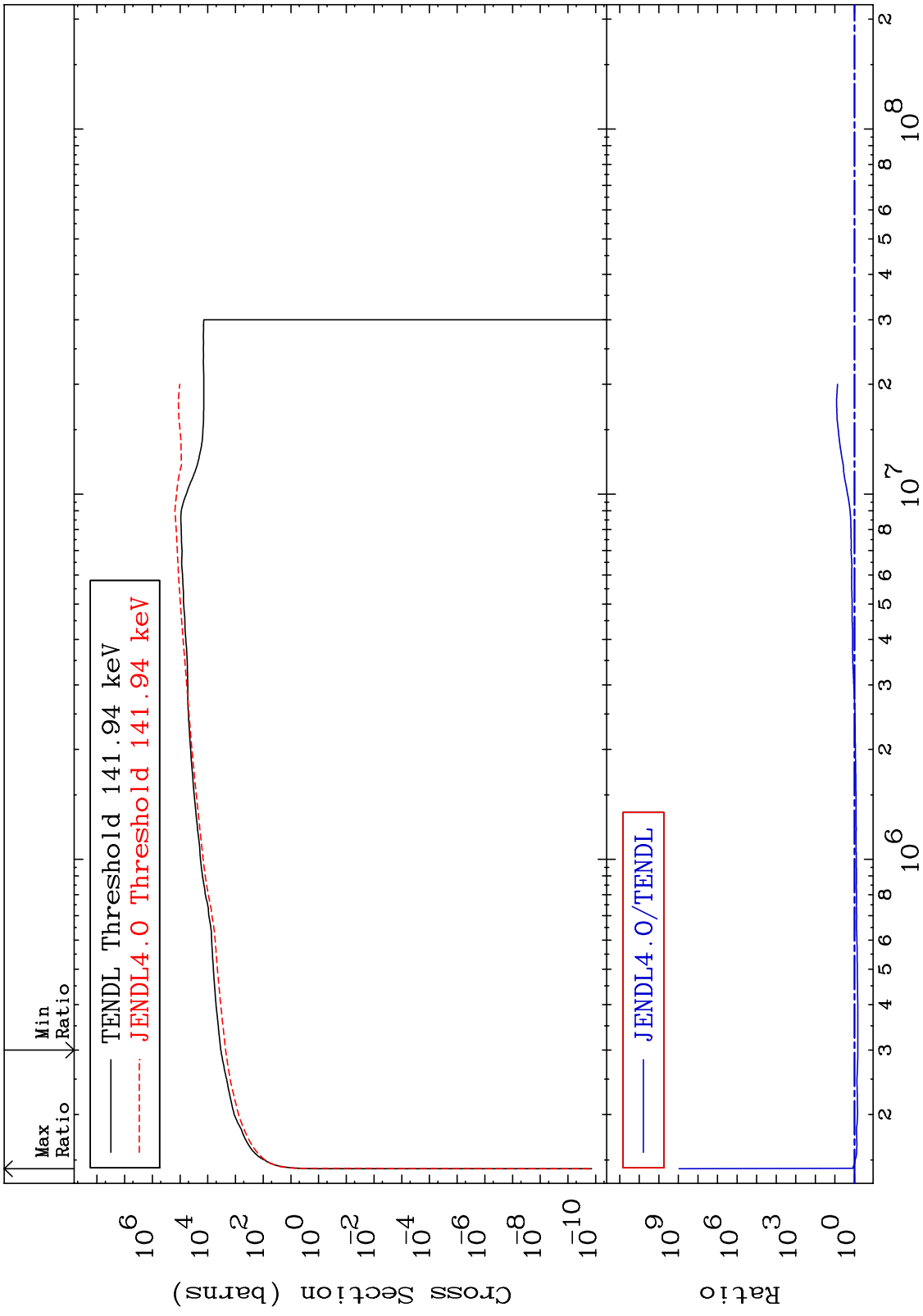
43-Tc-99
-52.95 To 9659. %



MAT 4325 Dpa elastic (mt2) 43-Tc-99
Cross Section -67.53 To 4786. %



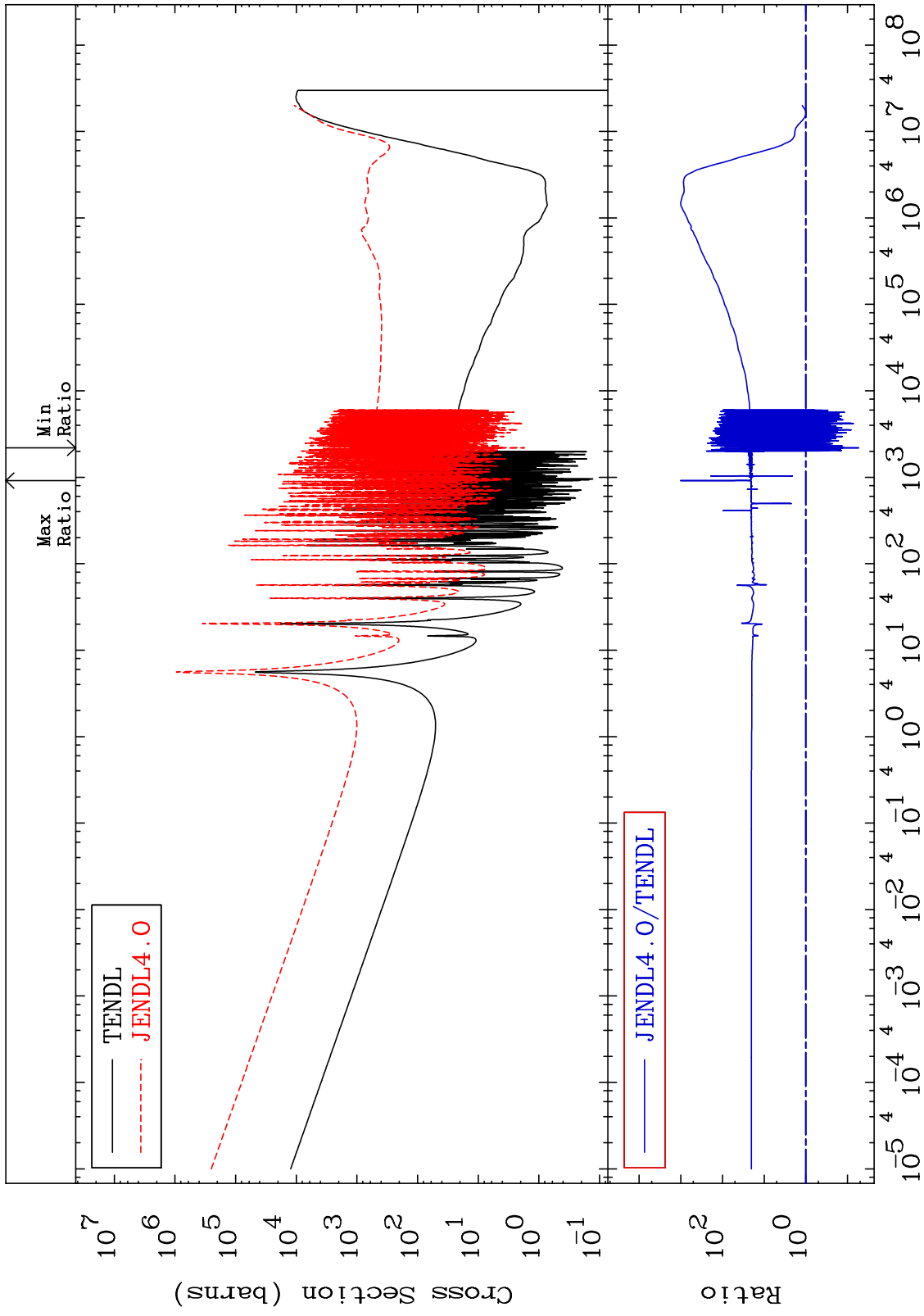
MAT 4325 Dpa inelastic (mt51-91) 43-Tc-99
 Cross Section -32.82 To 9999. %



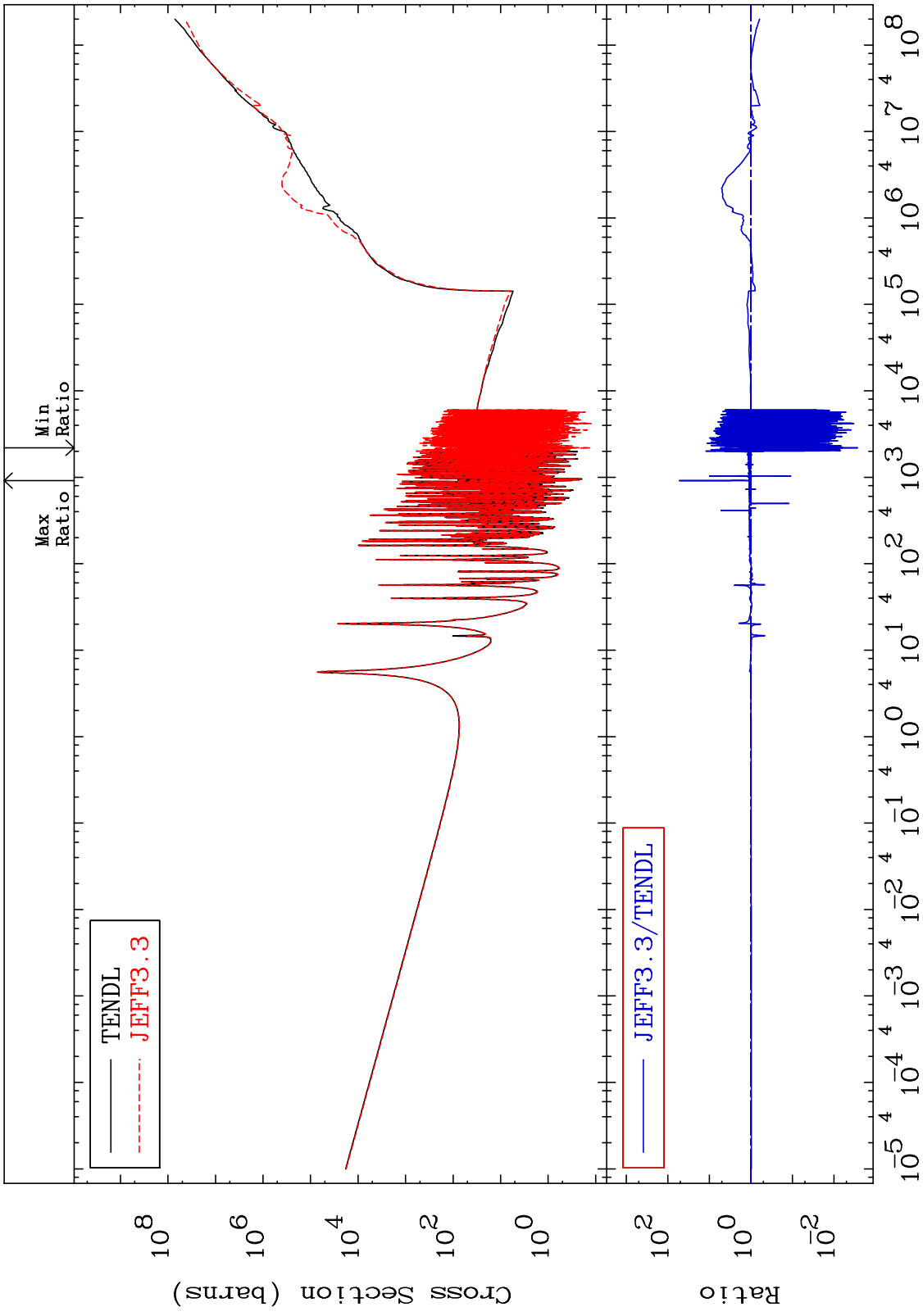
MAT 4325

Dpa disappearance (mt102 -120)
Cross Section

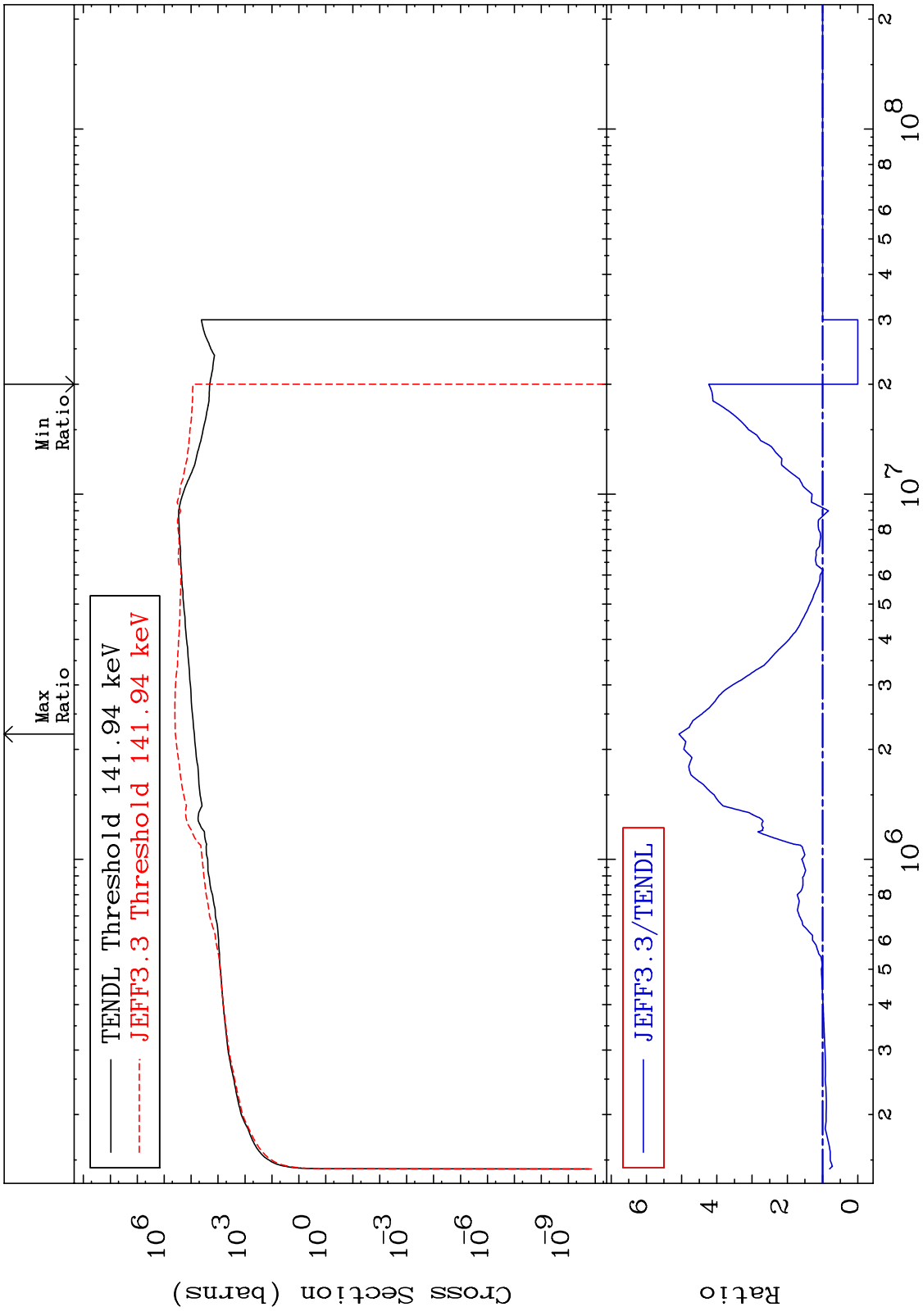
43-Tc-99
-94.67 To 9999. %



MAT 4325 Kerma non-elastic (all but mt2) 43-Tc-99
 Cross Section -99.73 To 5259. %



MAT 4325 Kerma inelastic (mt51-91) 43-Tc-99
 Cross Section -100.0 To 407.3 %

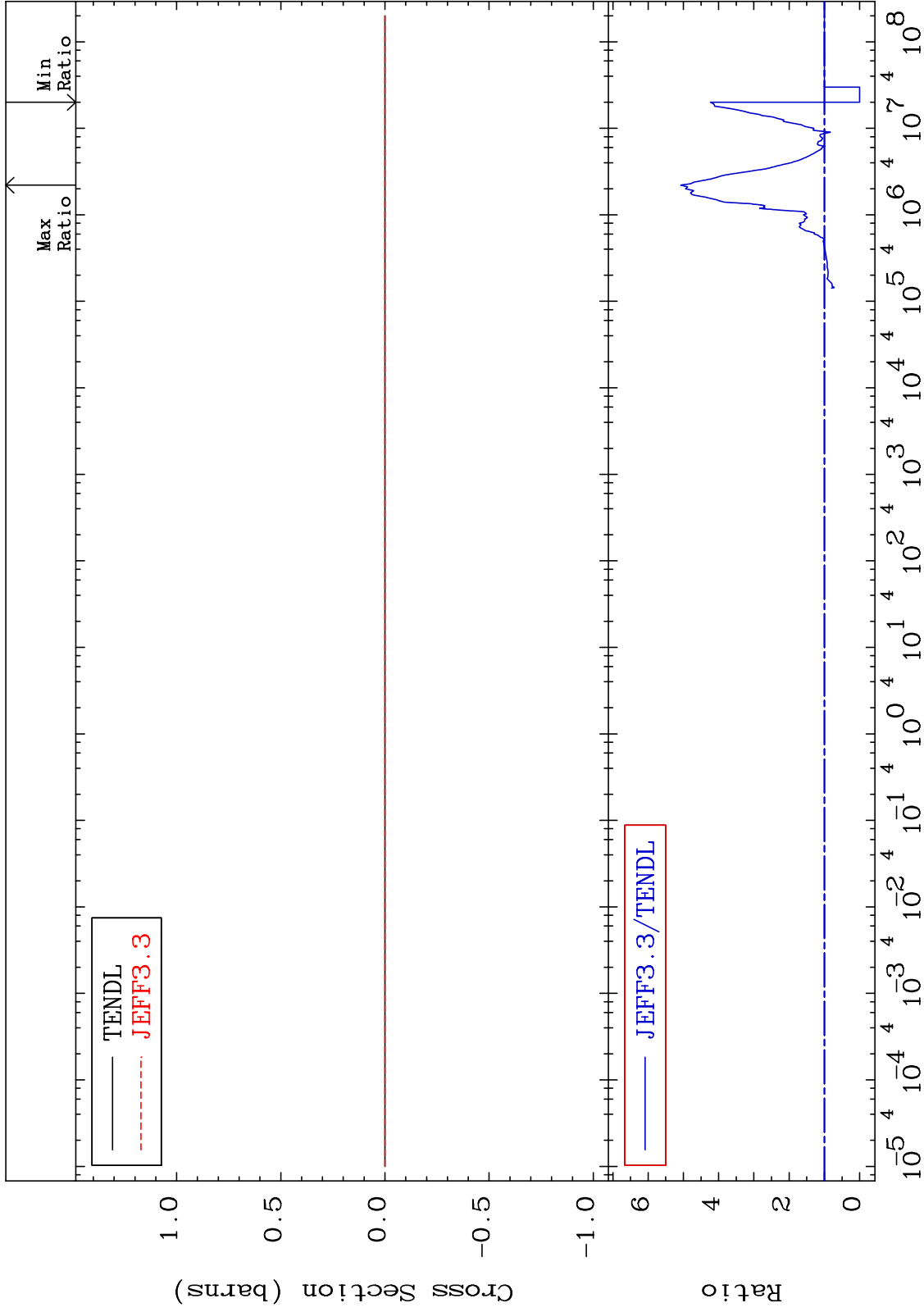


51 43-Tc-99

MAT 4325

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

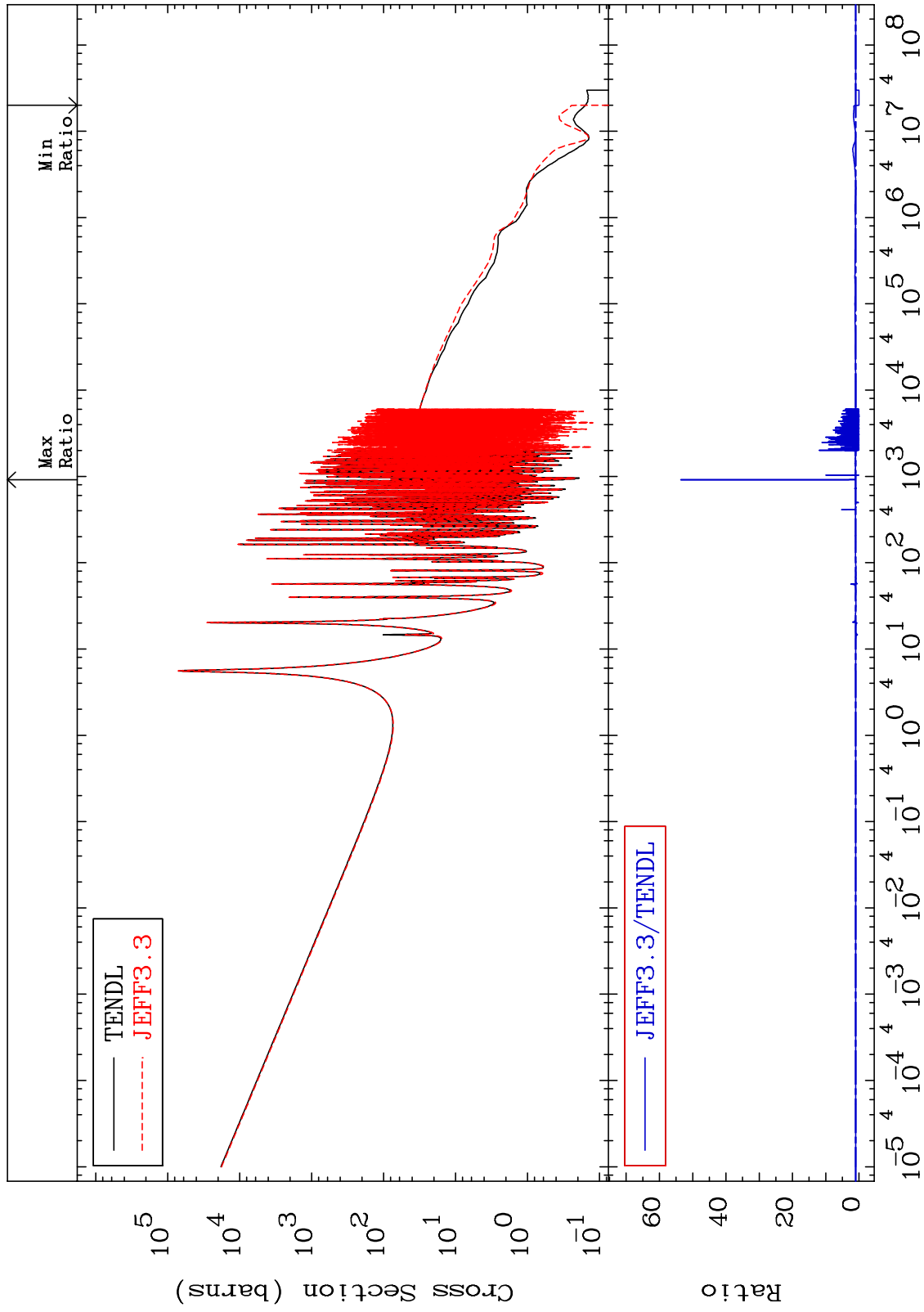
43-Tc-99
-100.0 To 407.3 %



MAT 4325

Kerma capture (mt102)
Cross Section

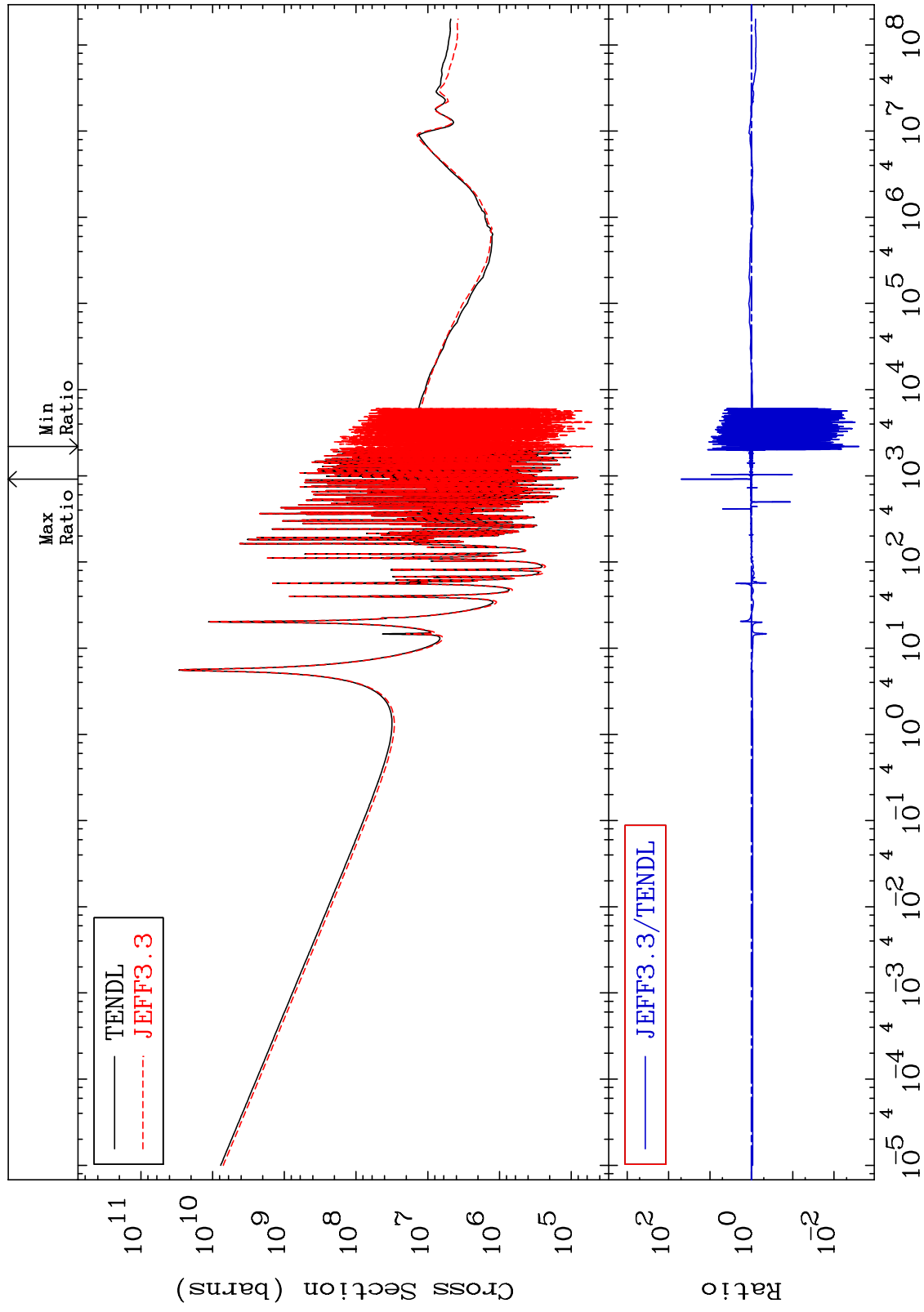
43-Tc-99
-100.0 To 5262. %



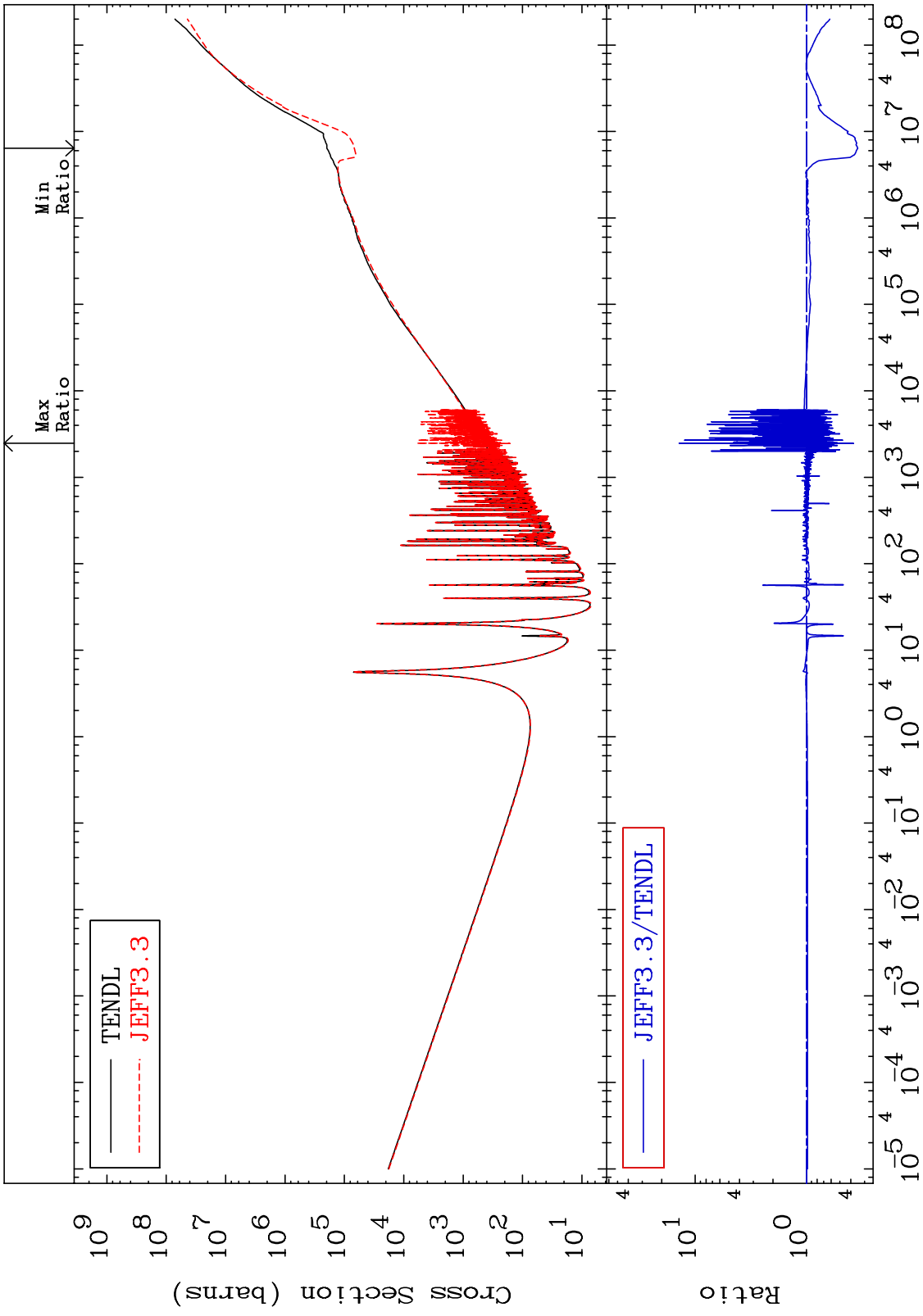
MAT 4325

Total photon (eV-barns)
Cross Section

43-Tc-99
-99.75 To 4946. %



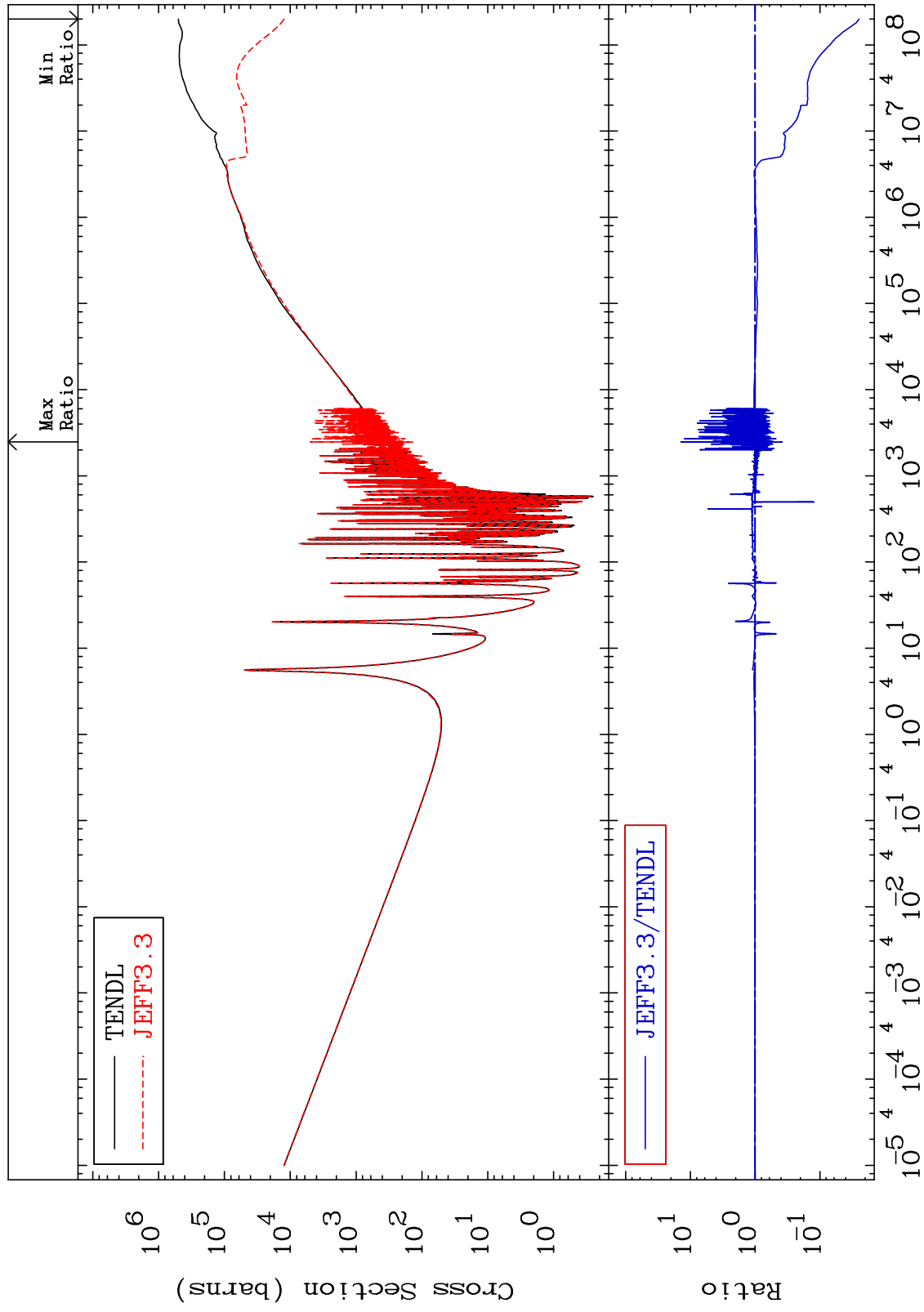
MAT 4325 Total kinematic kerma (high limit) 43-Tc-99
 Cross Section -65.48 To 1299. %



MAT 4325

Dpa total (eV-barns)
Cross Section

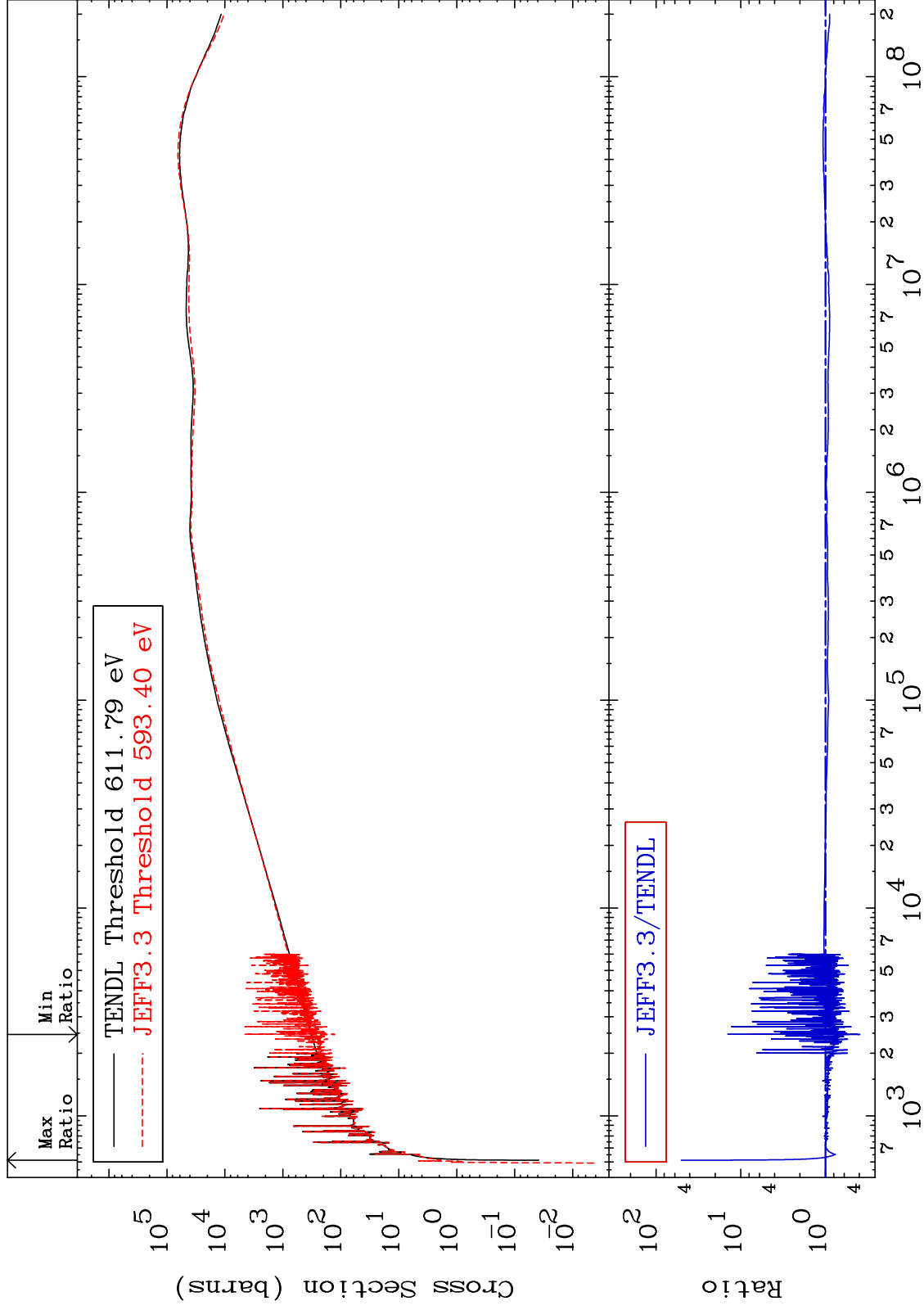
43-Tc-99
-97.51 To 1304. %

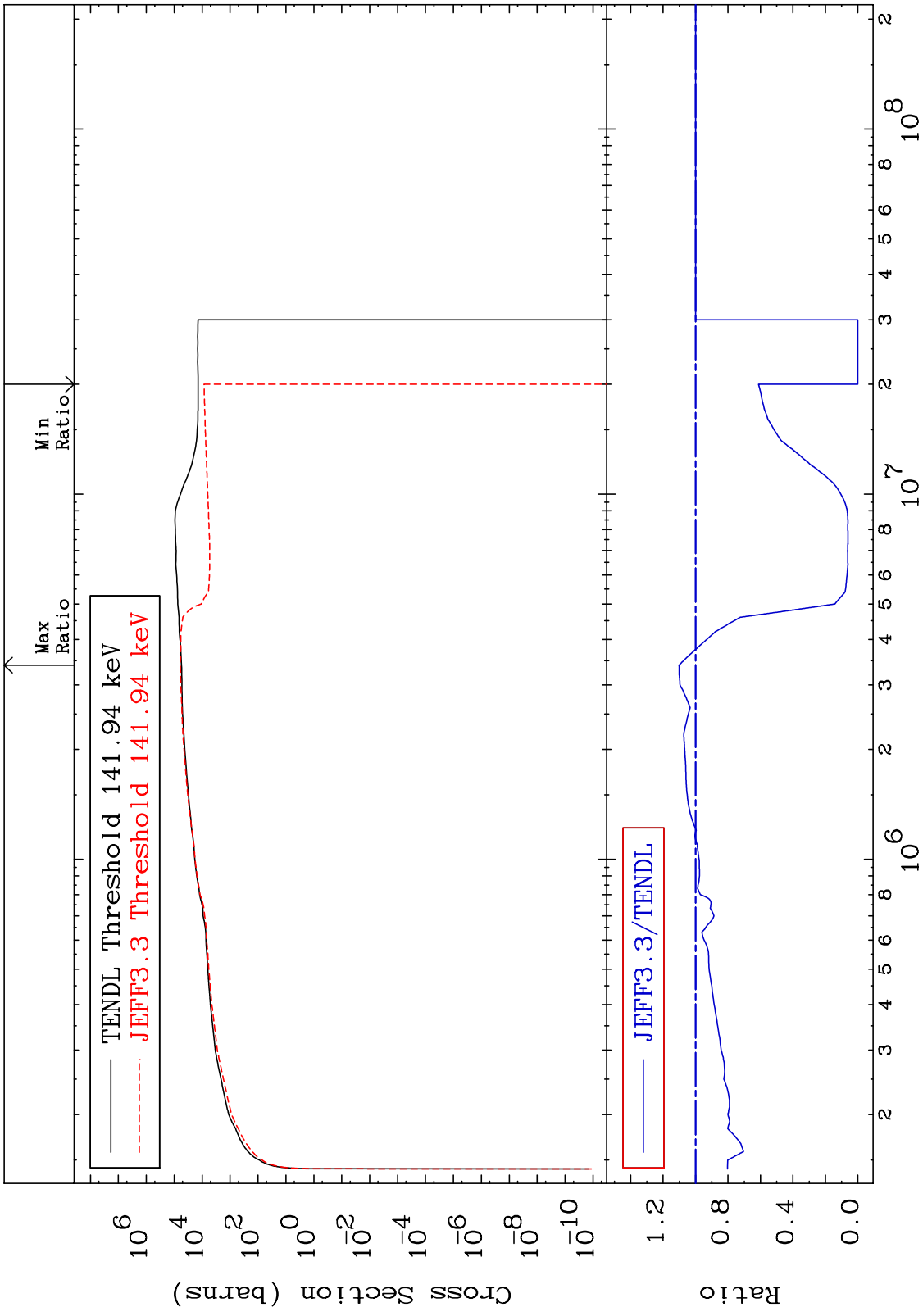


MAT 4325

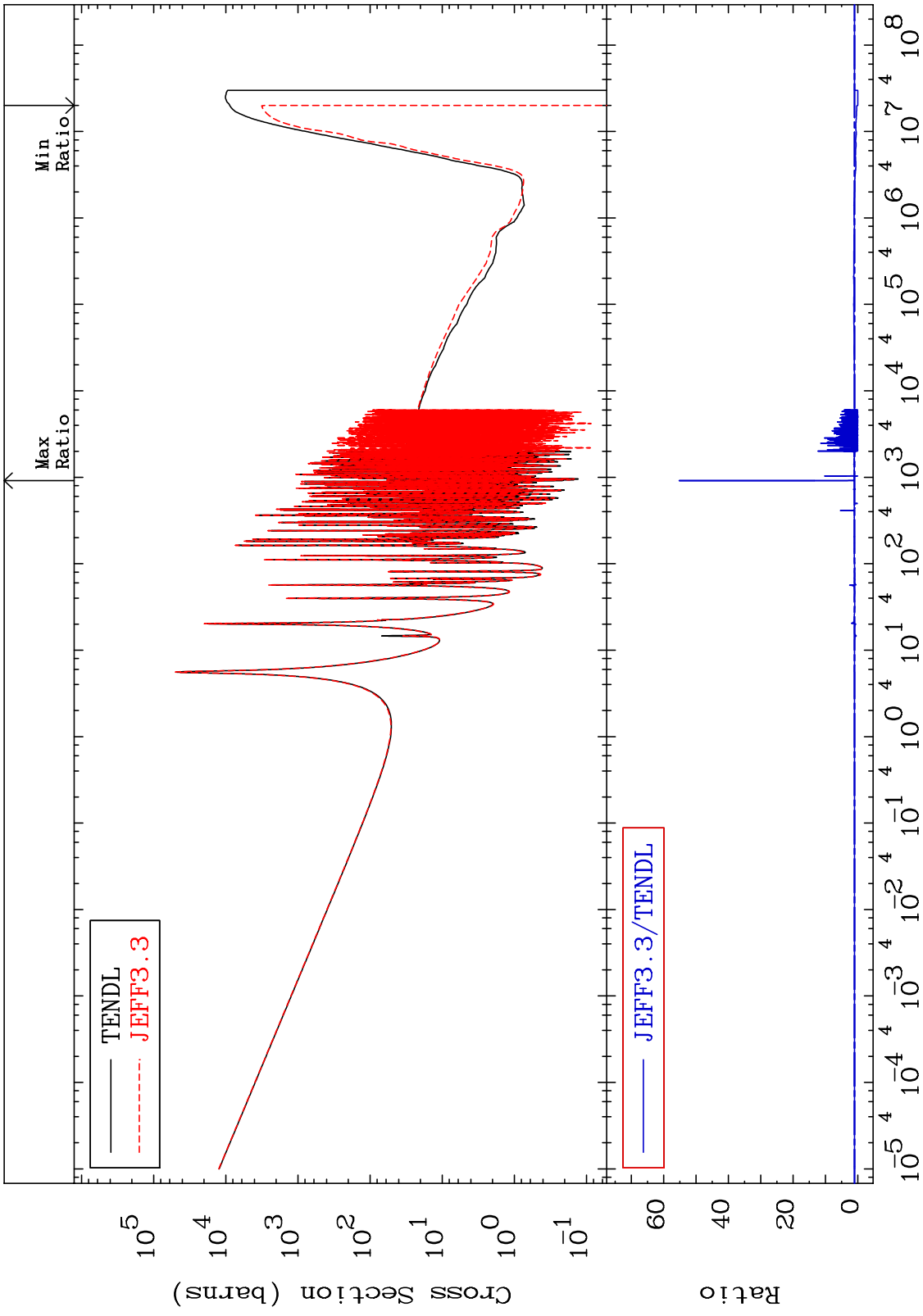
Dpa elastic (mt2)
Cross Section

43-Tc-99
-60.56 To 4942. %





MAT 4325 Dpa disappearance (mt102 -120) 43-Tc-99
 Cross Section -100.0 To 5427. %

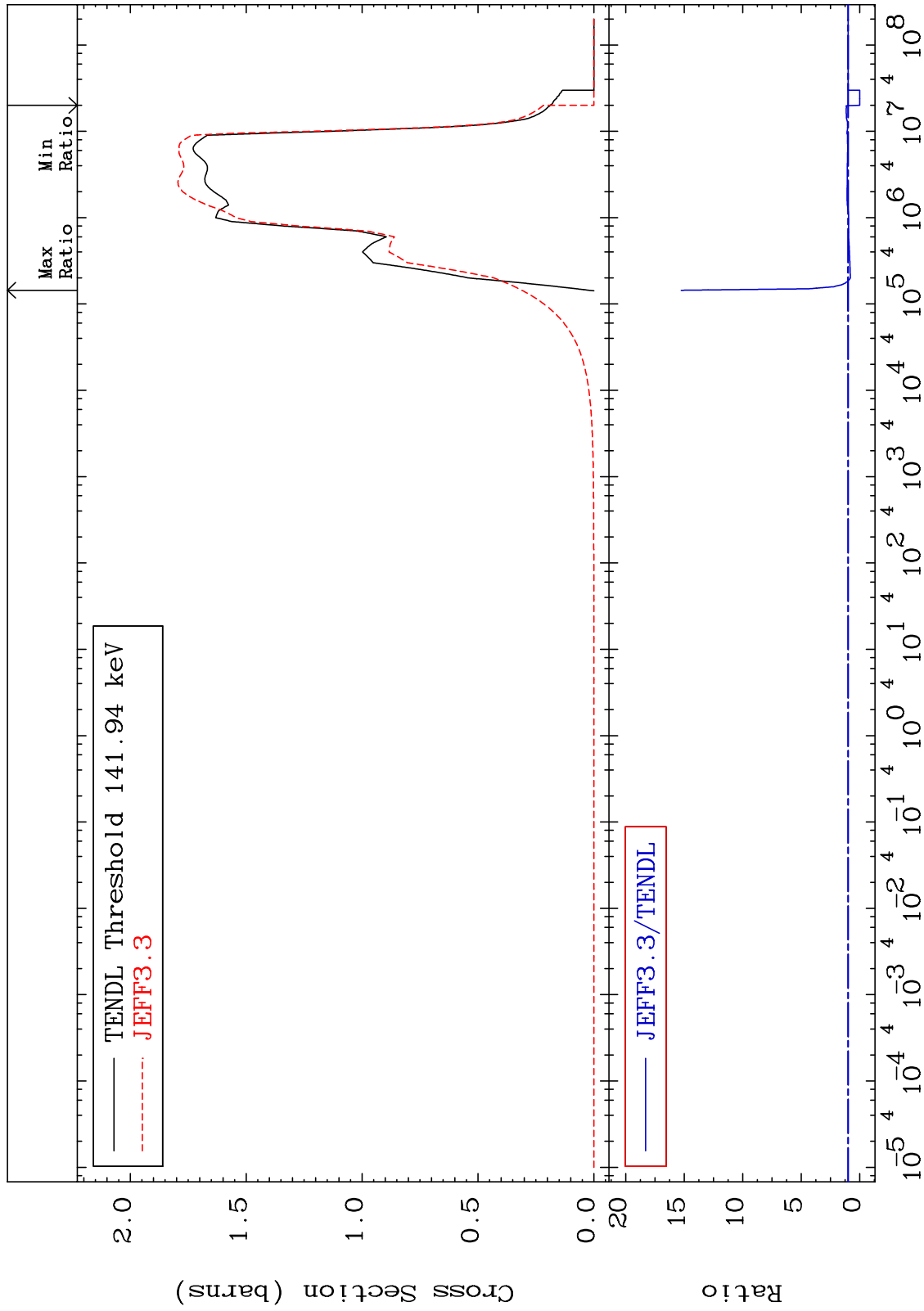


MAT 4325

Inelastic: 43-Tc-99g

43-Tc-99

Radionuclide Production Cross Section -100.0 To 1425. %



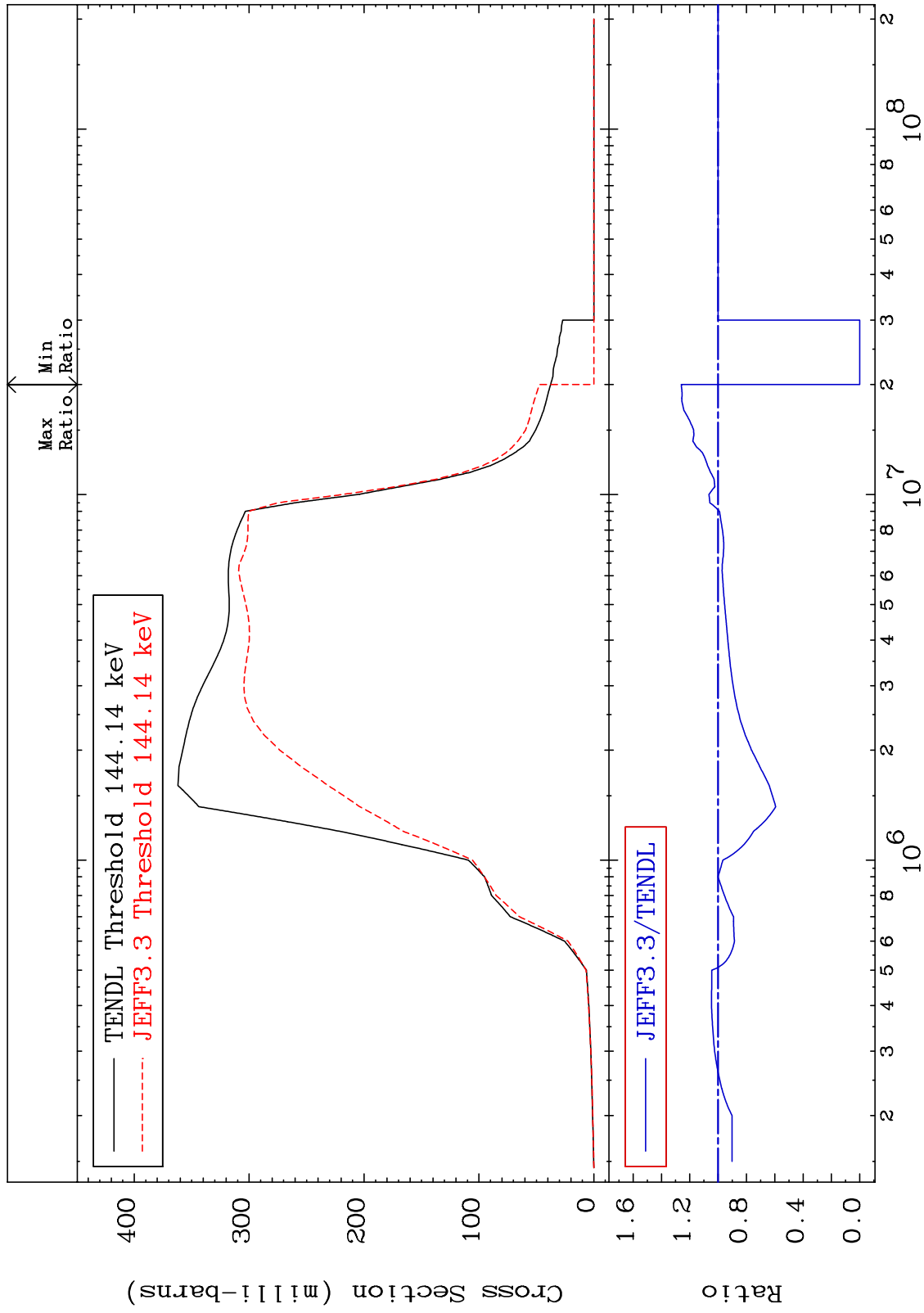
60

43-Tc-99

MAT 4325

Inelastic:43-Tc-99m2
Radionuclide Production Cross Section -100.0 To 26.02 %

43-Tc-99



61

Incident Energy (eV)

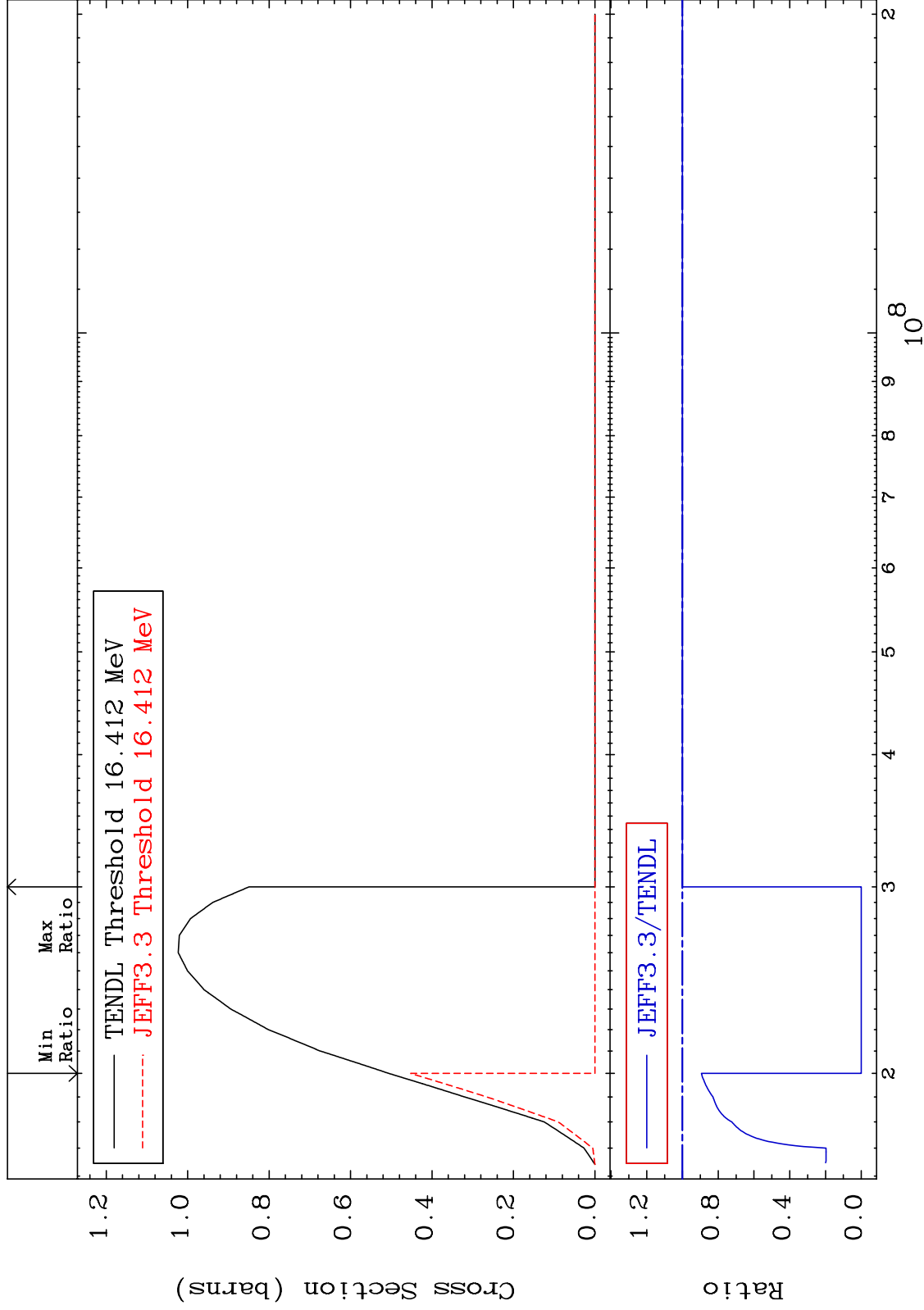
43-Tc-99

MAT 4325

(n,3n) : 43-Tc-97g

43-Tc-99

Radionuclide Production Cross Section -100.0 To 0.000 %

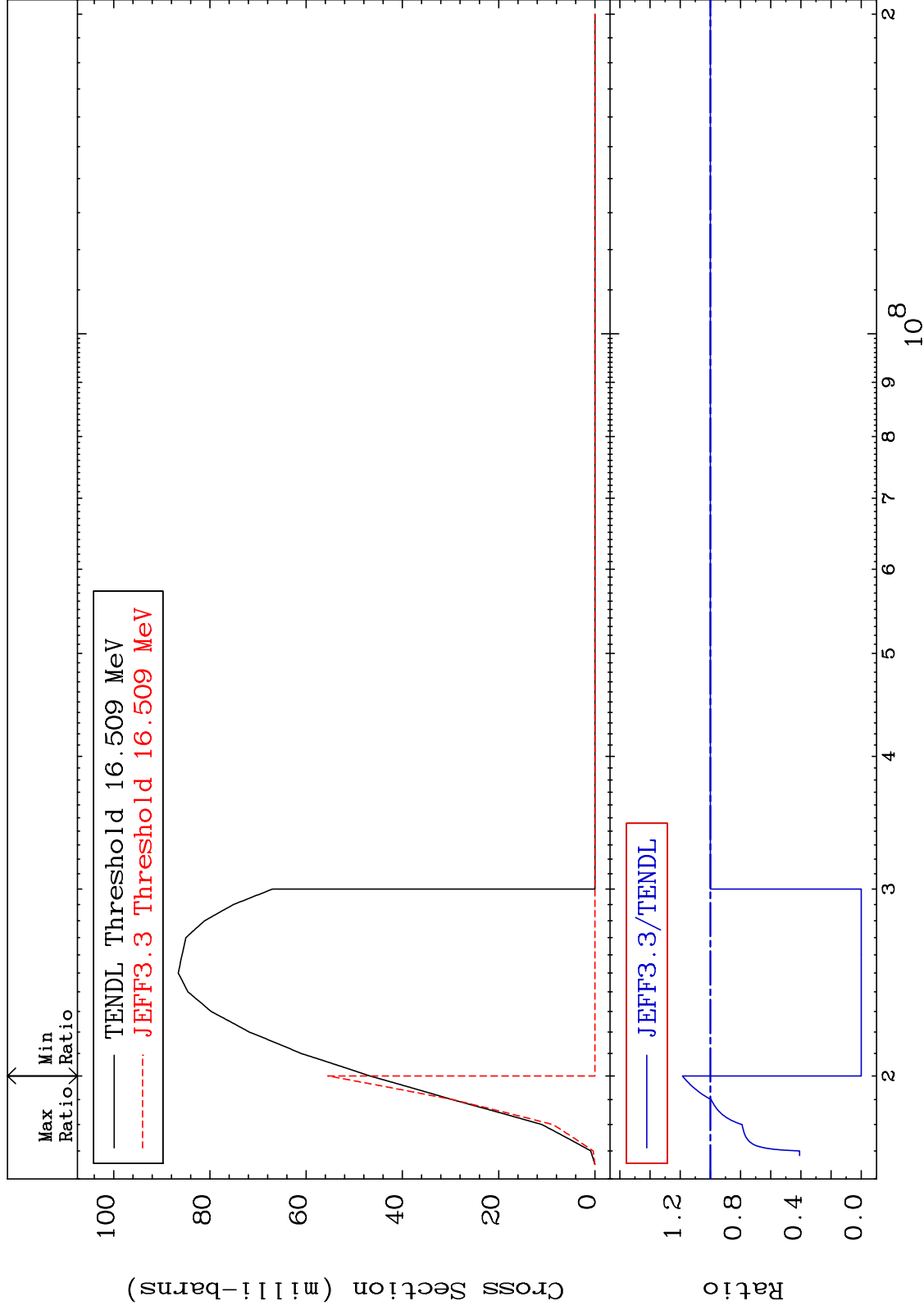


MAT 4325

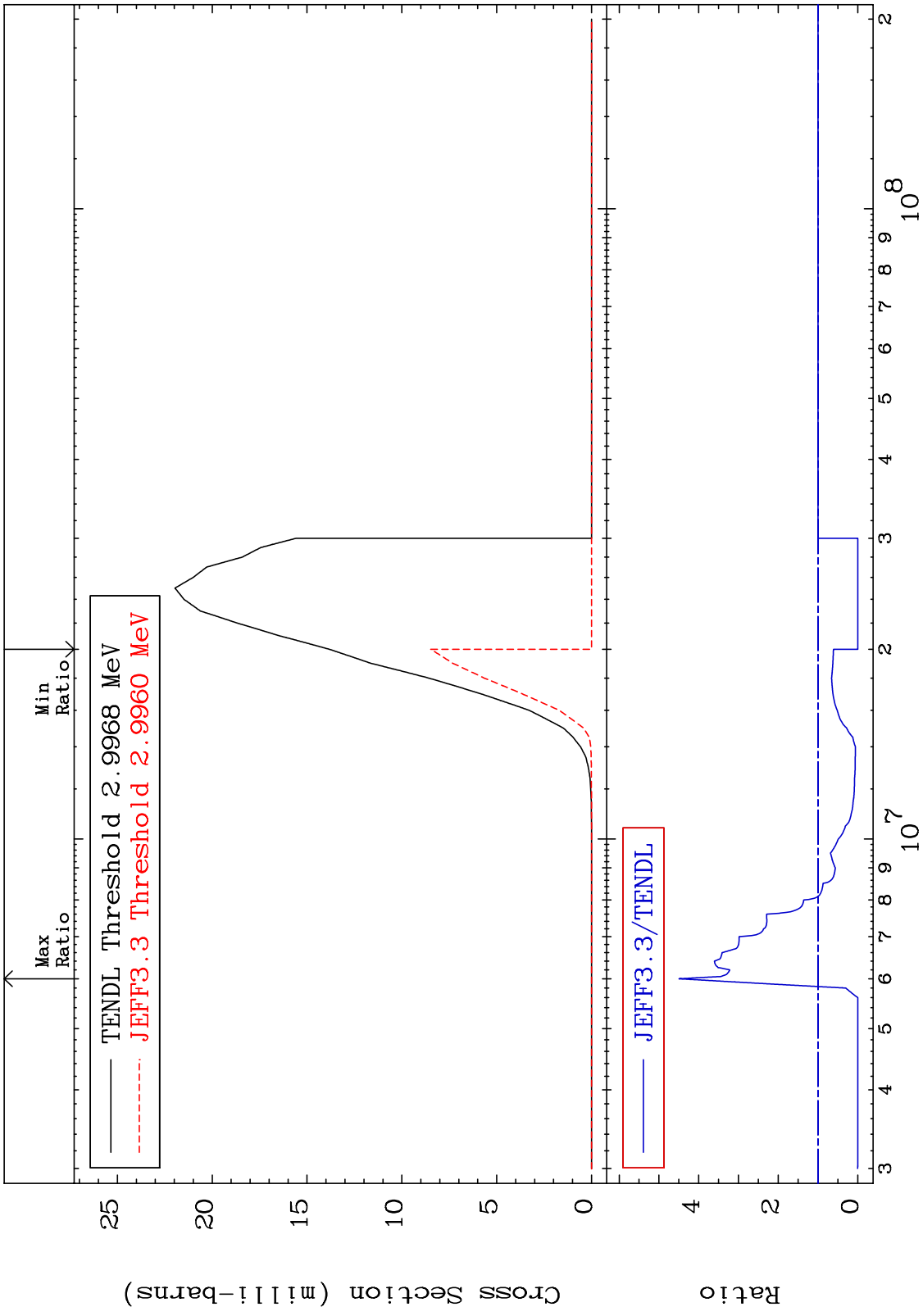
(n, 3n) : 43-Tc-97m1

43-Tc-99

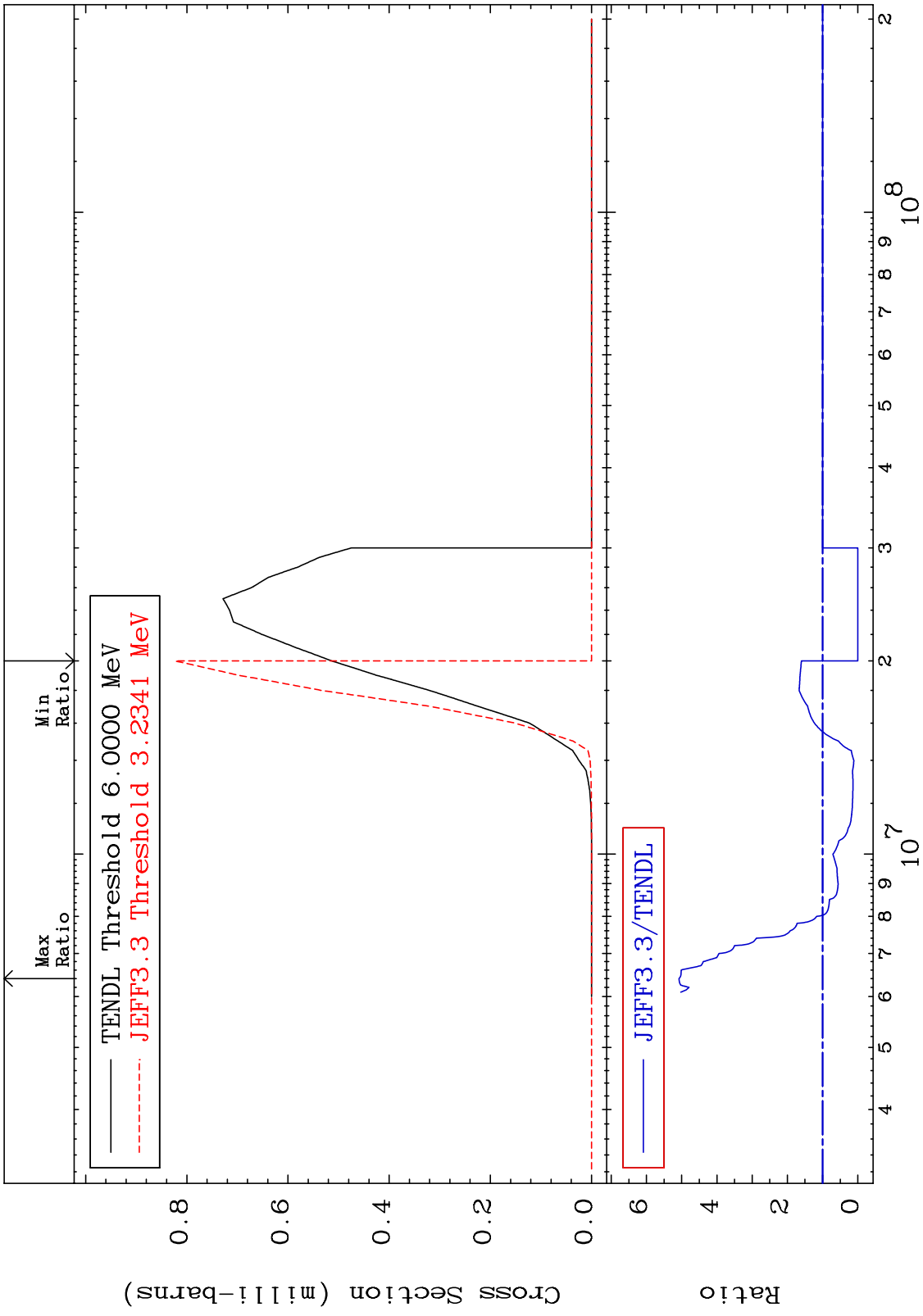
Radionuclide Production Cross Section -100.0 To 18.53 %



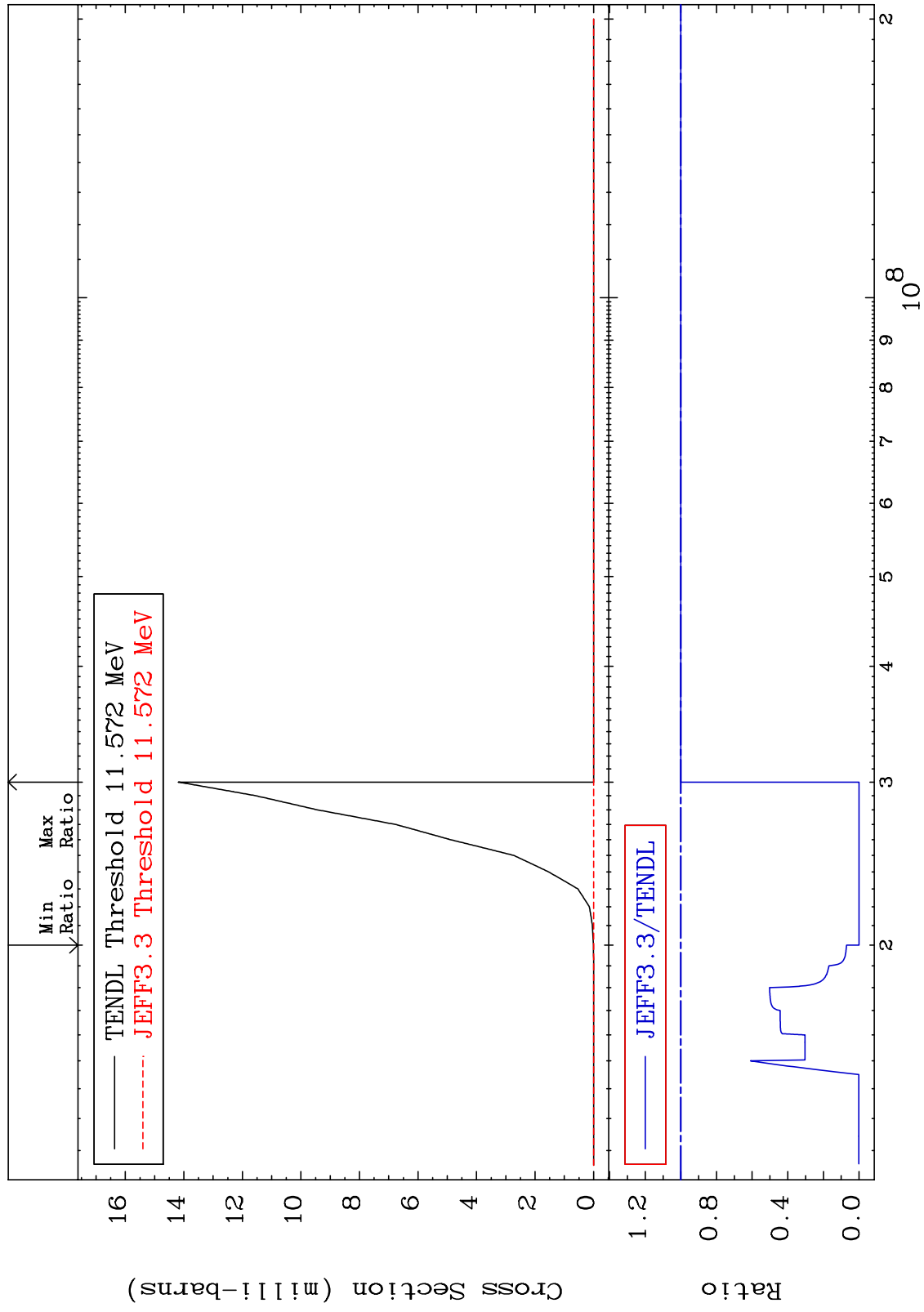
MAT 4325 (n, n') α : 41-Nb-95g 43-Tc-99
 Radionuclide Production Cross Section -100.0 To 349.5 %



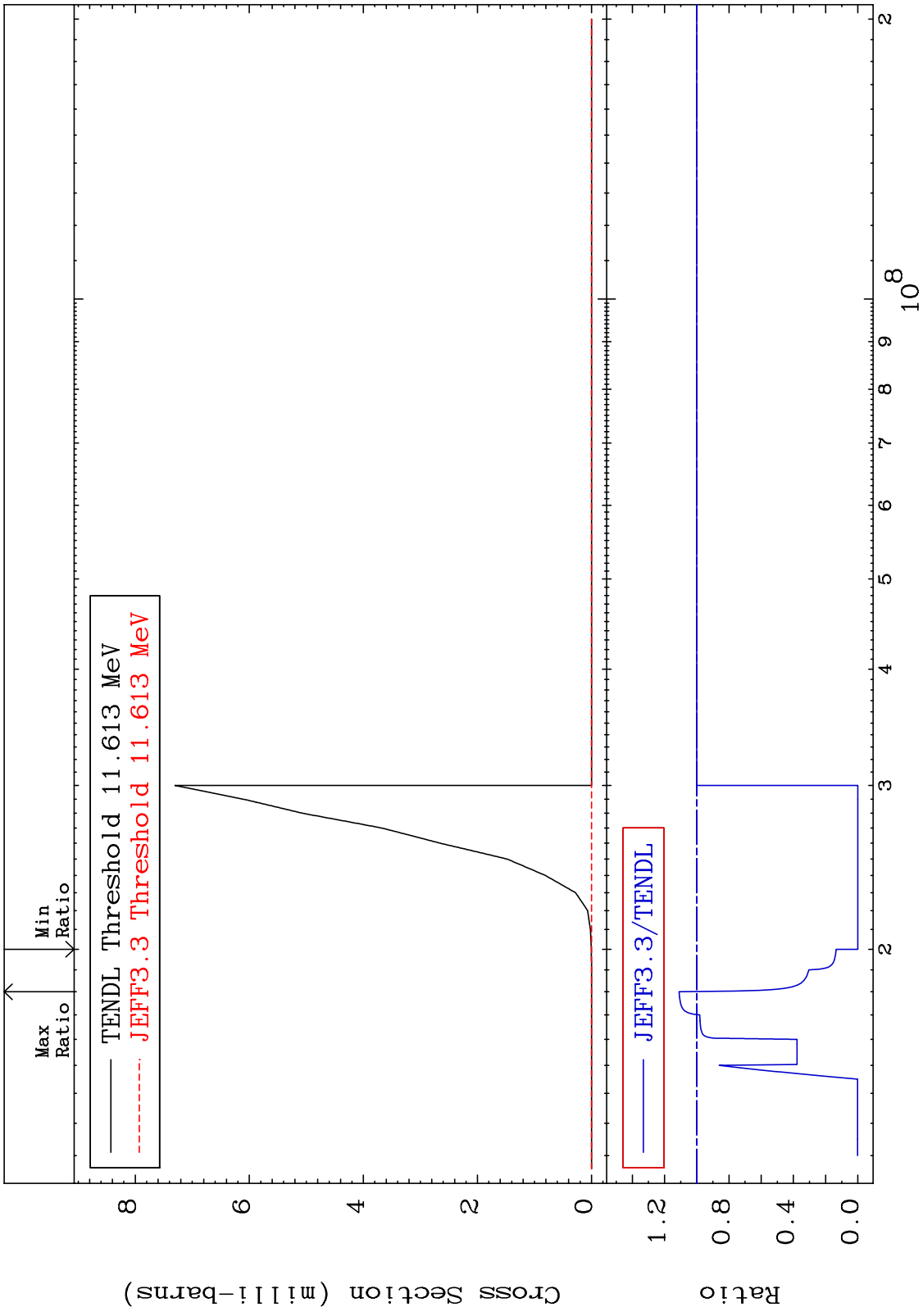
MAT 4325 (n, n') α : 41-Nb-95m1 43-Tc-99
 Radionuclide Production Cross Section -100.0 To 407.5 %

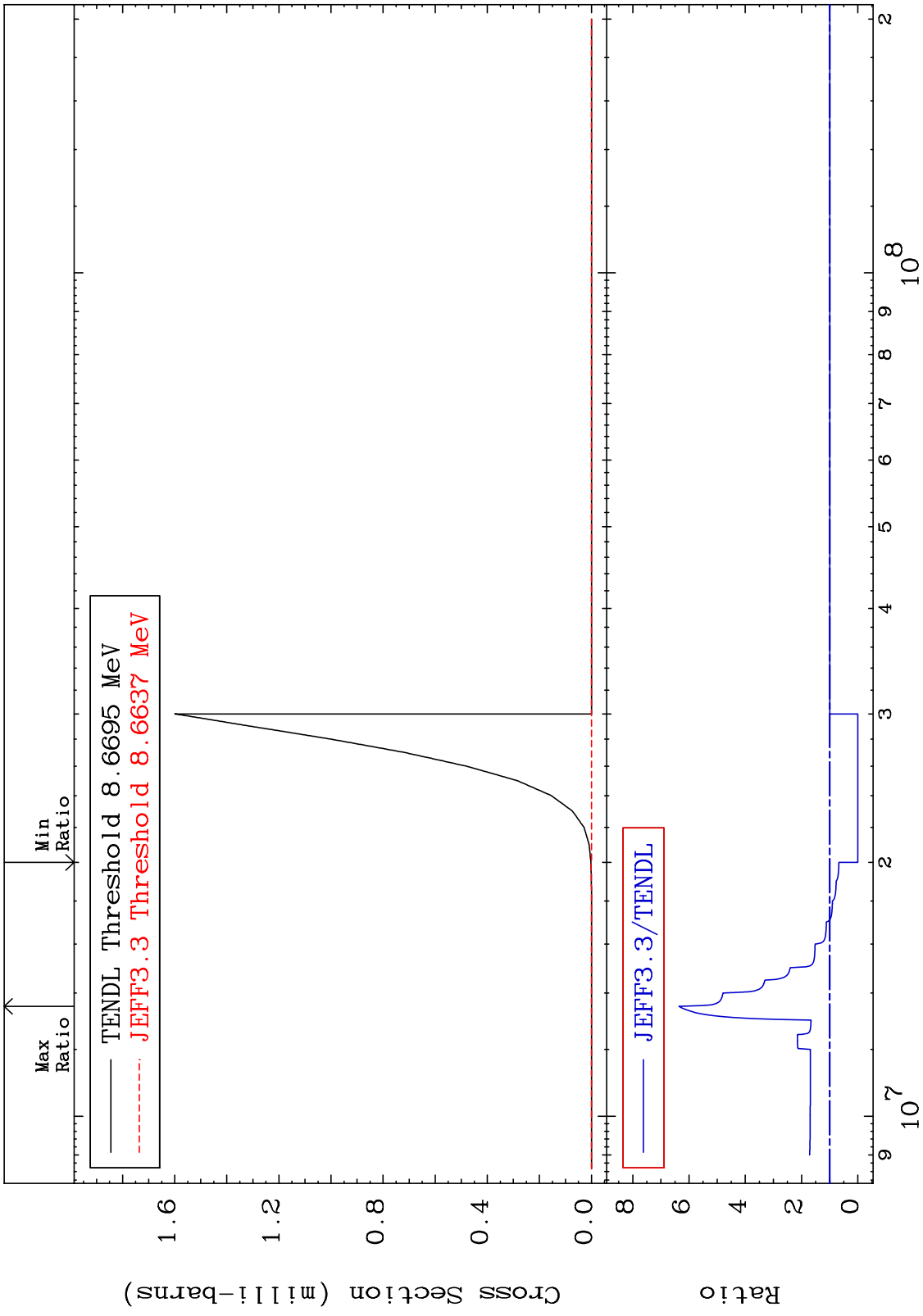


MAT 4325 (n,2n) α : 41-Nb-94g 43-Tc-99
Radionuclide Production Cross Section -100.0 To 0.000 %



MAT 4325 (n,2n) α :41-Nb-94m1 43-Tc-99
 Radionuclide Production Cross Section -100.0 To 10.99 %



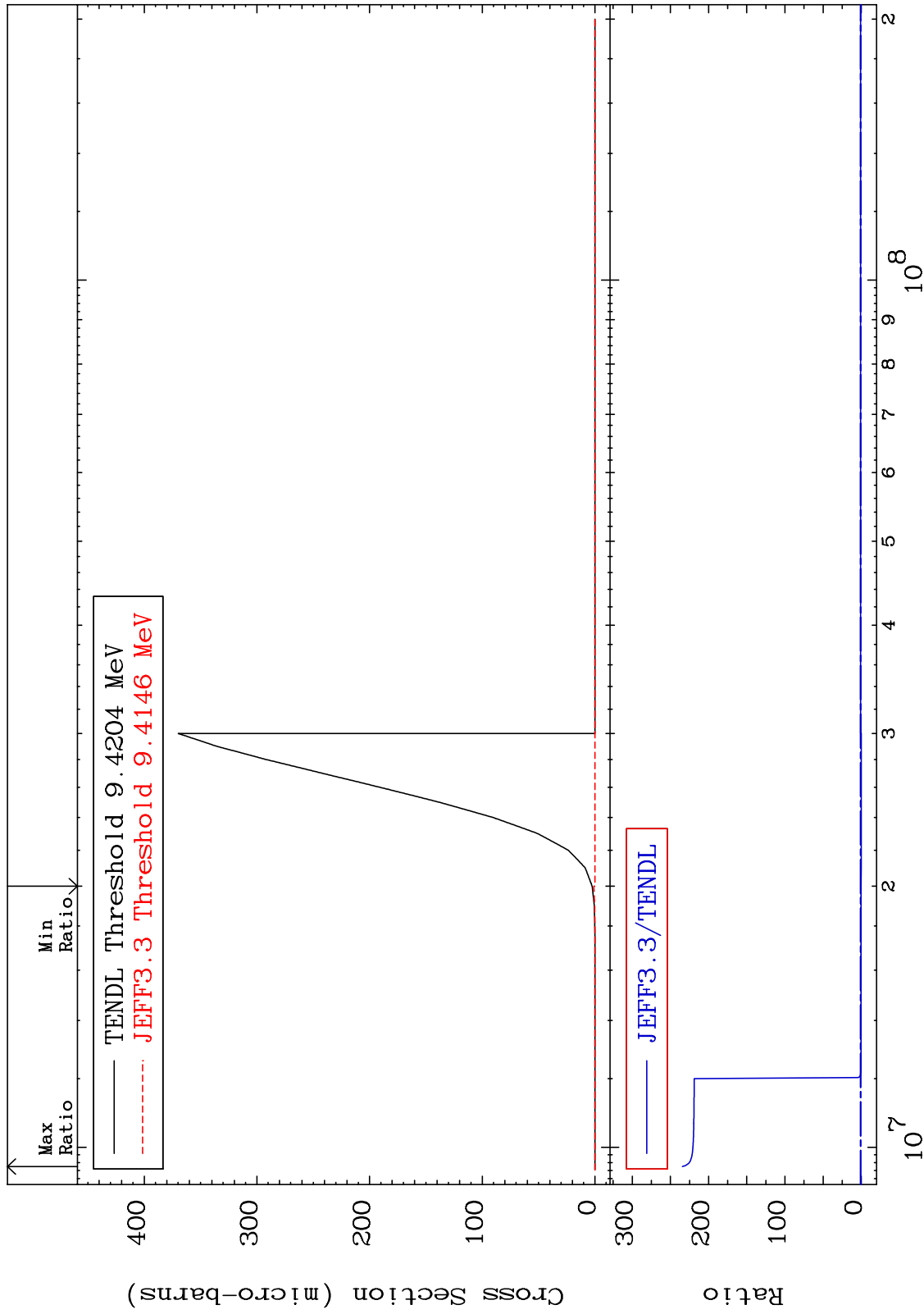


MAT 4325

(n, He-3) : 41-Nb-97m1

43-Tc-99

Radionuclide Production Cross Section -100.0 To 9999. %



69

MAT 4325 (n,2p): 41-Nb-98g 43-Tc-99
 Radionuclide Production Cross Section -100.0 To 0.000 %

