

Program Complot
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

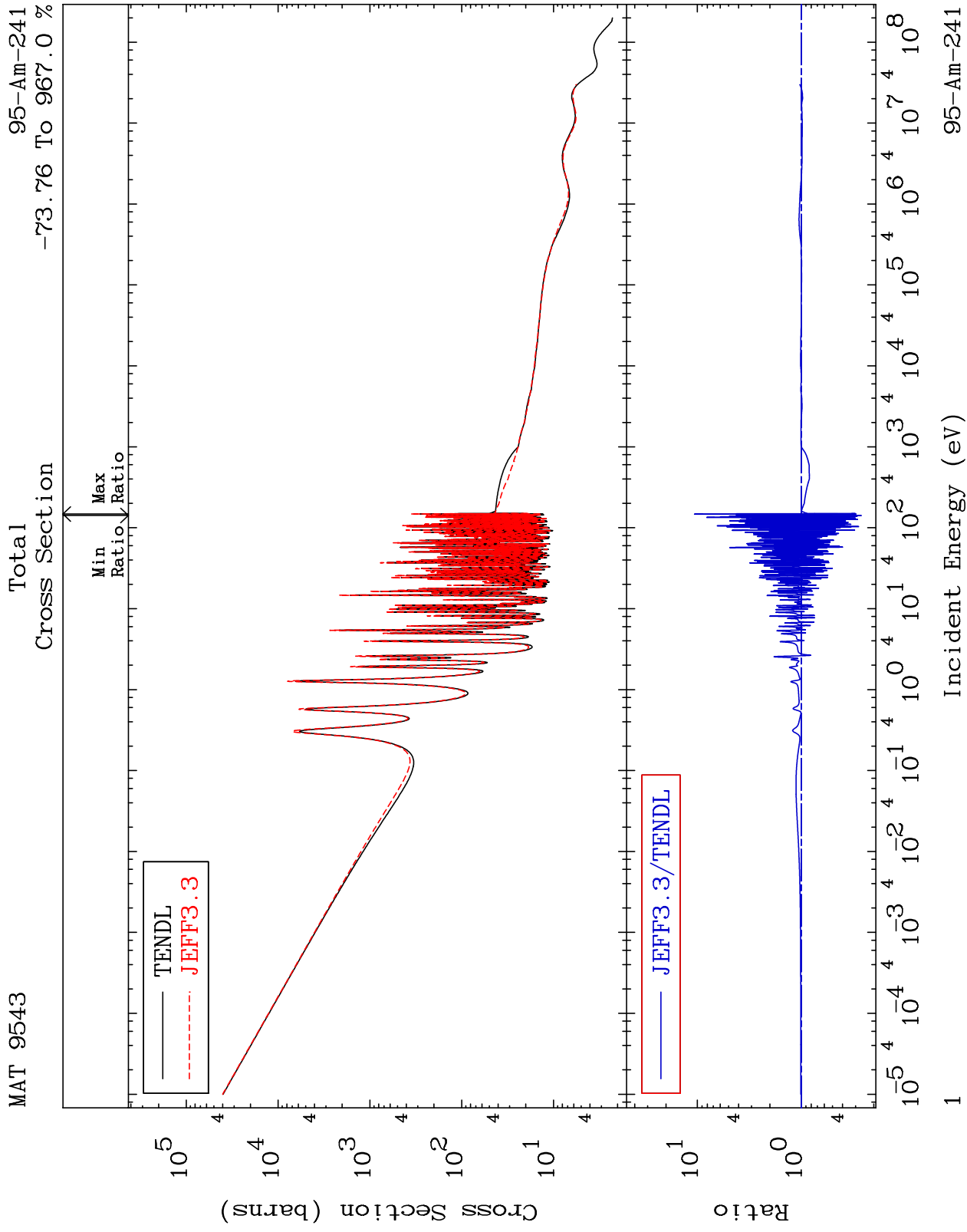
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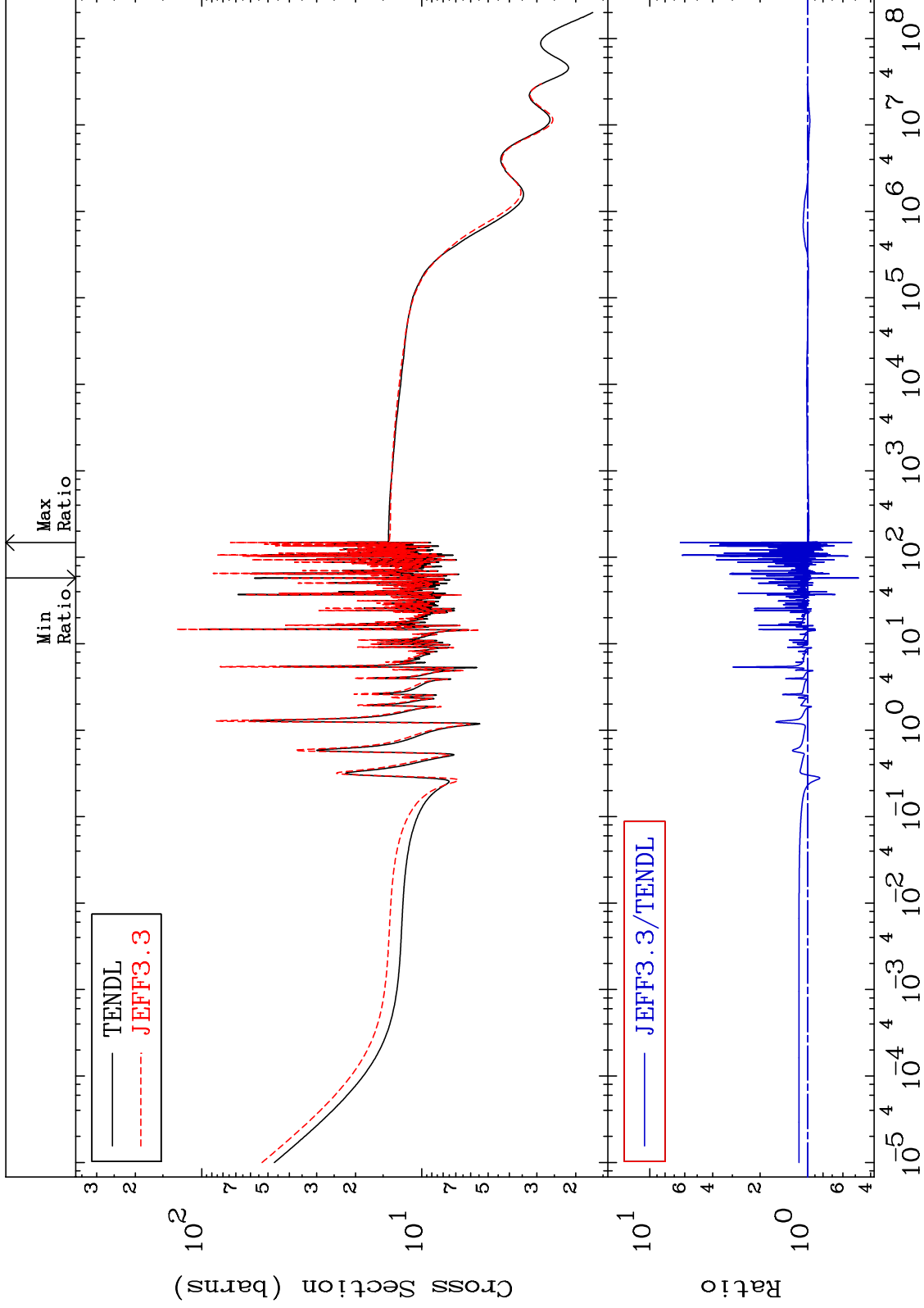
Press Mouse Button to Start

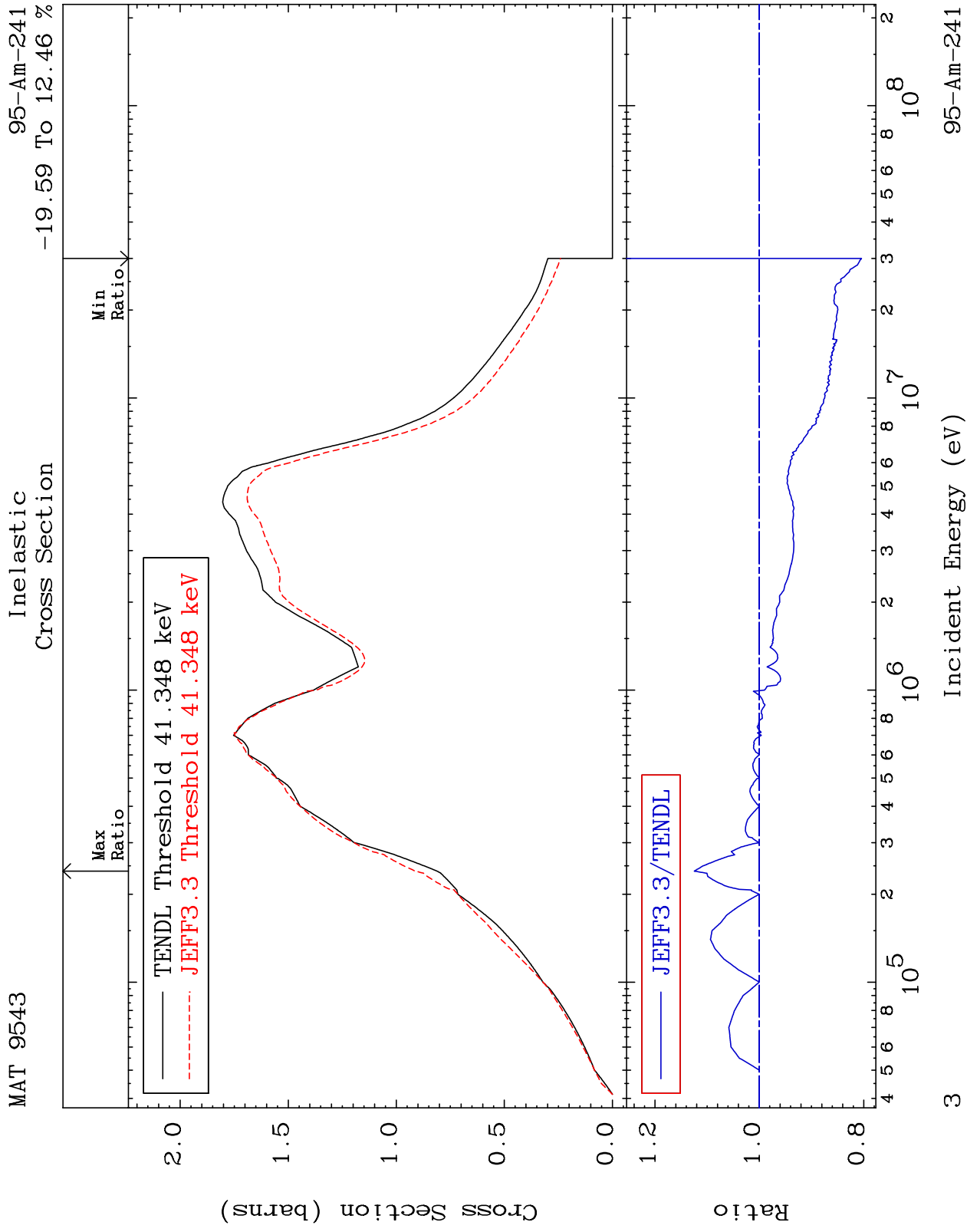


MAT 9543

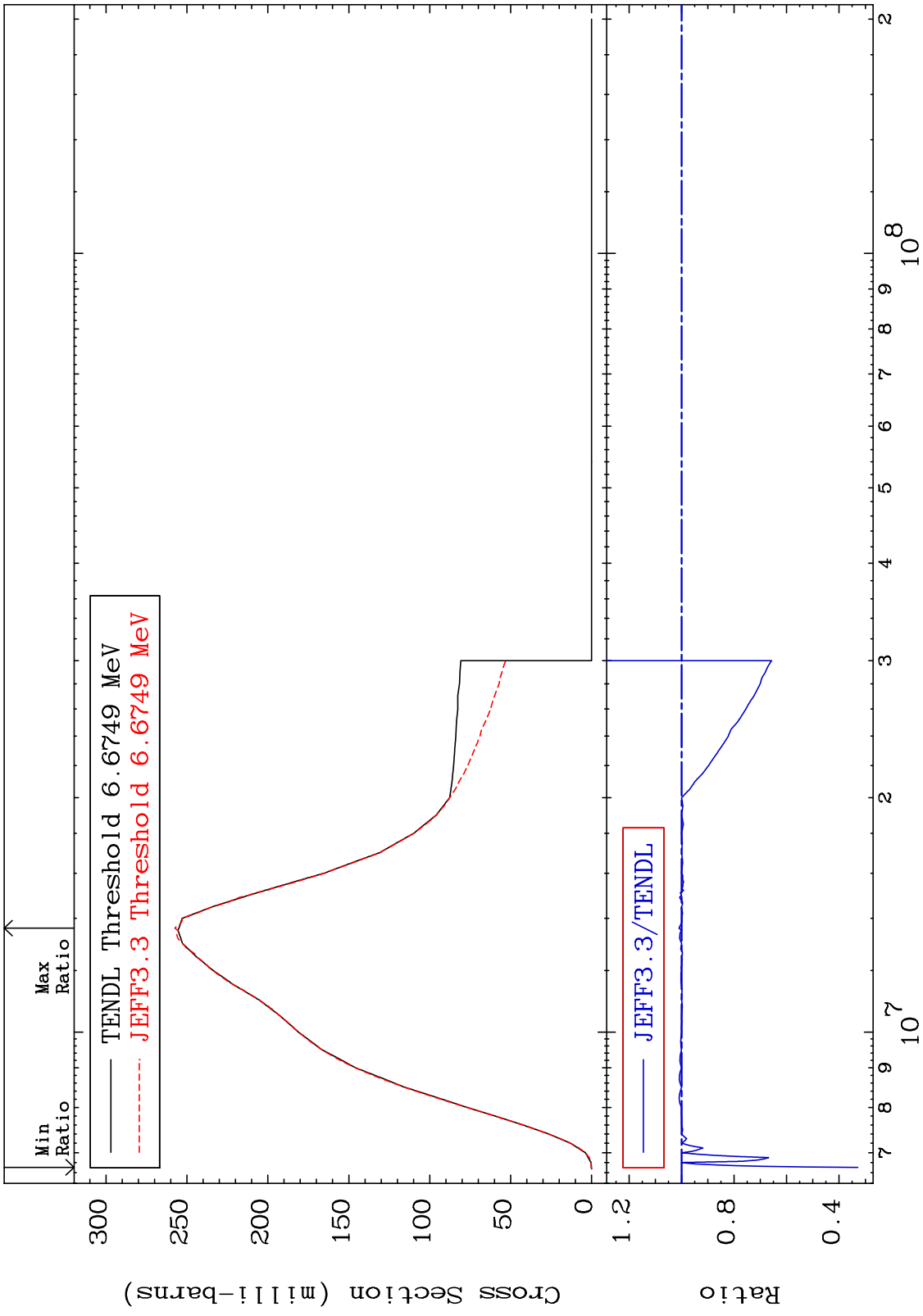
Elastic
Cross Section

95-Am-241
-52.54 To 541.1 %

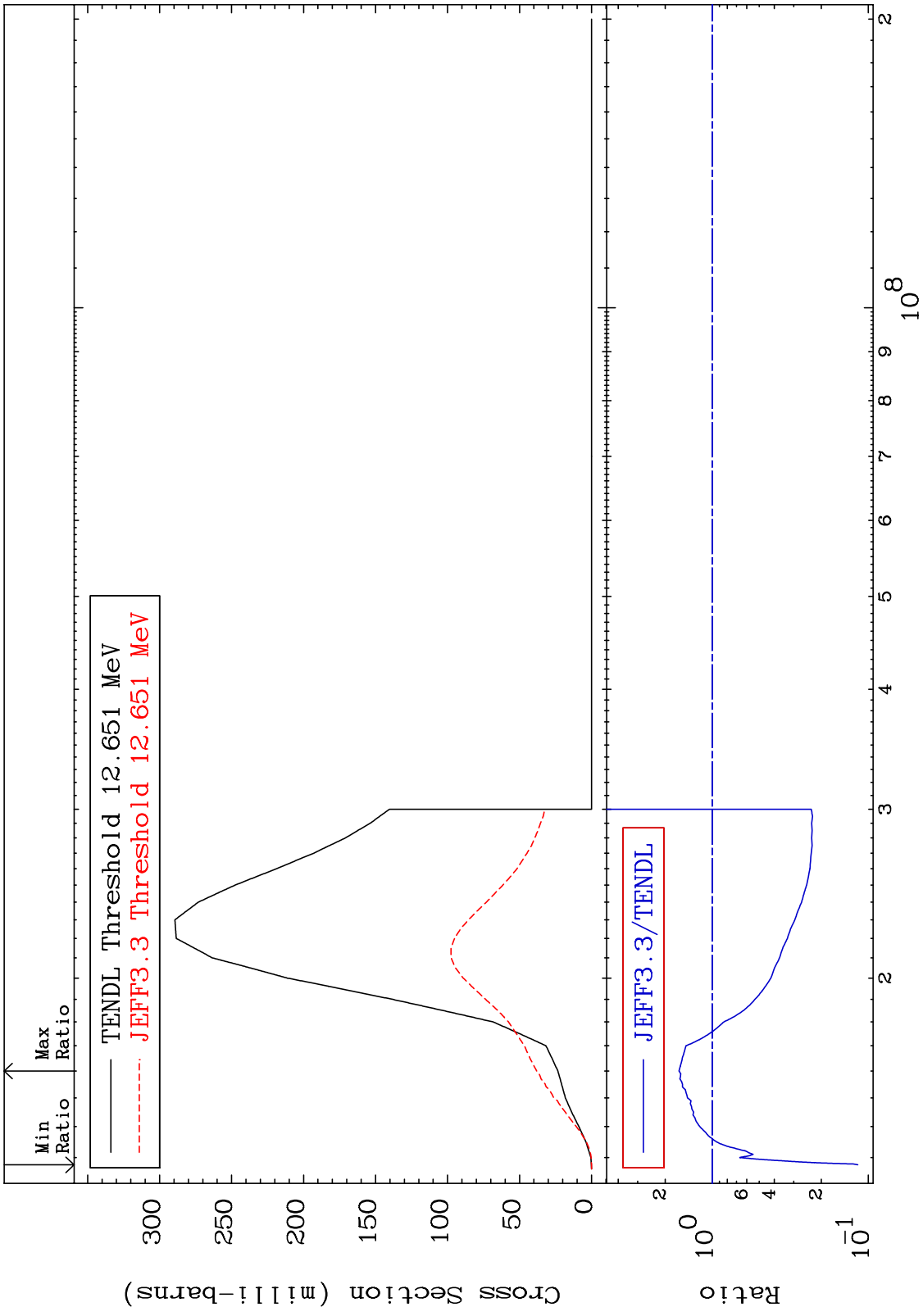




MAT 9543 95-Am-241
-67.14 To 0.961 %



MAT 9543 (n,3n) Cross Section 95-Am-241 -88.33 To 63.02 %



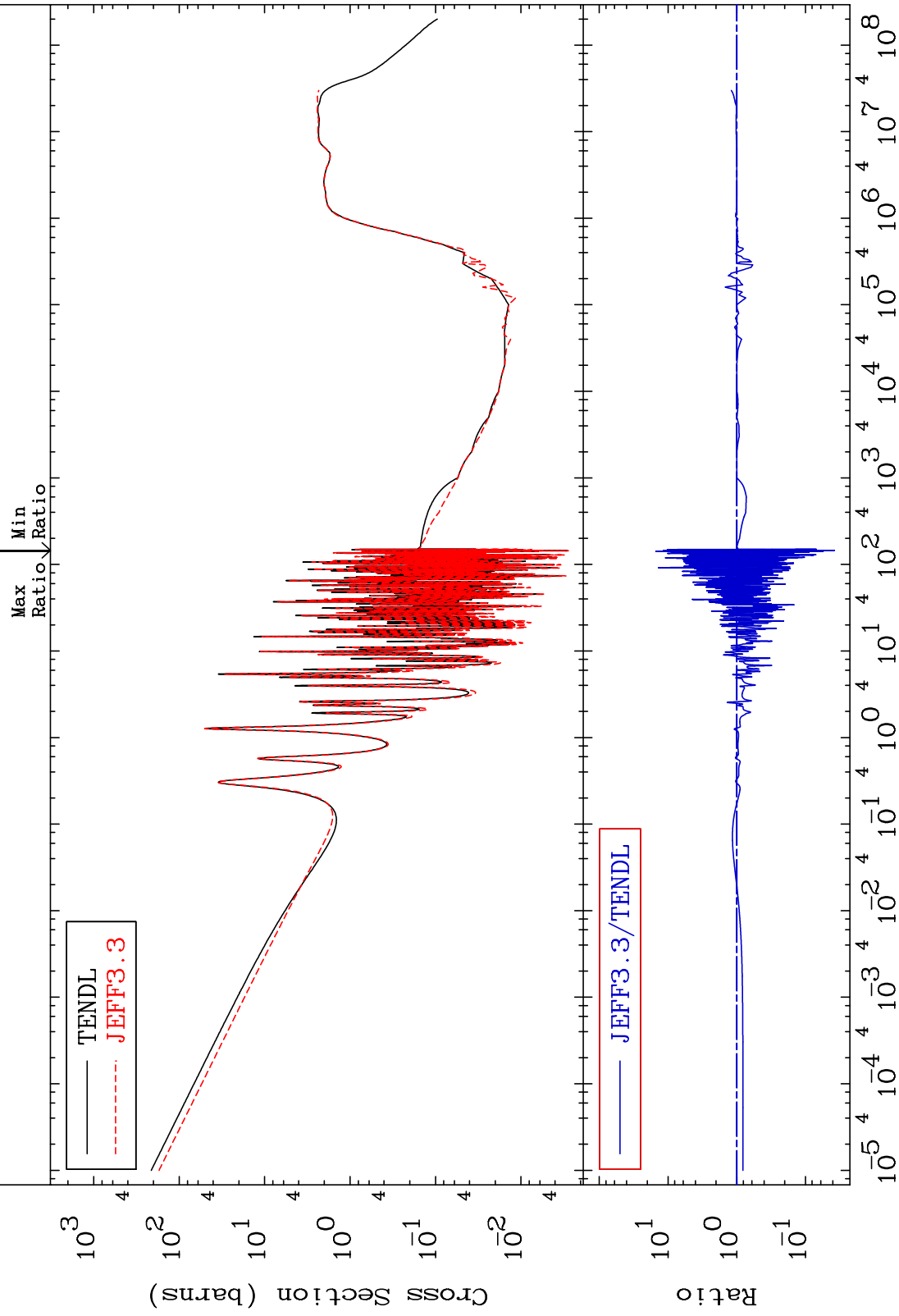
MAT 9543

Fission

95-Am-241

-96.23 To 1410. %

Cross Section



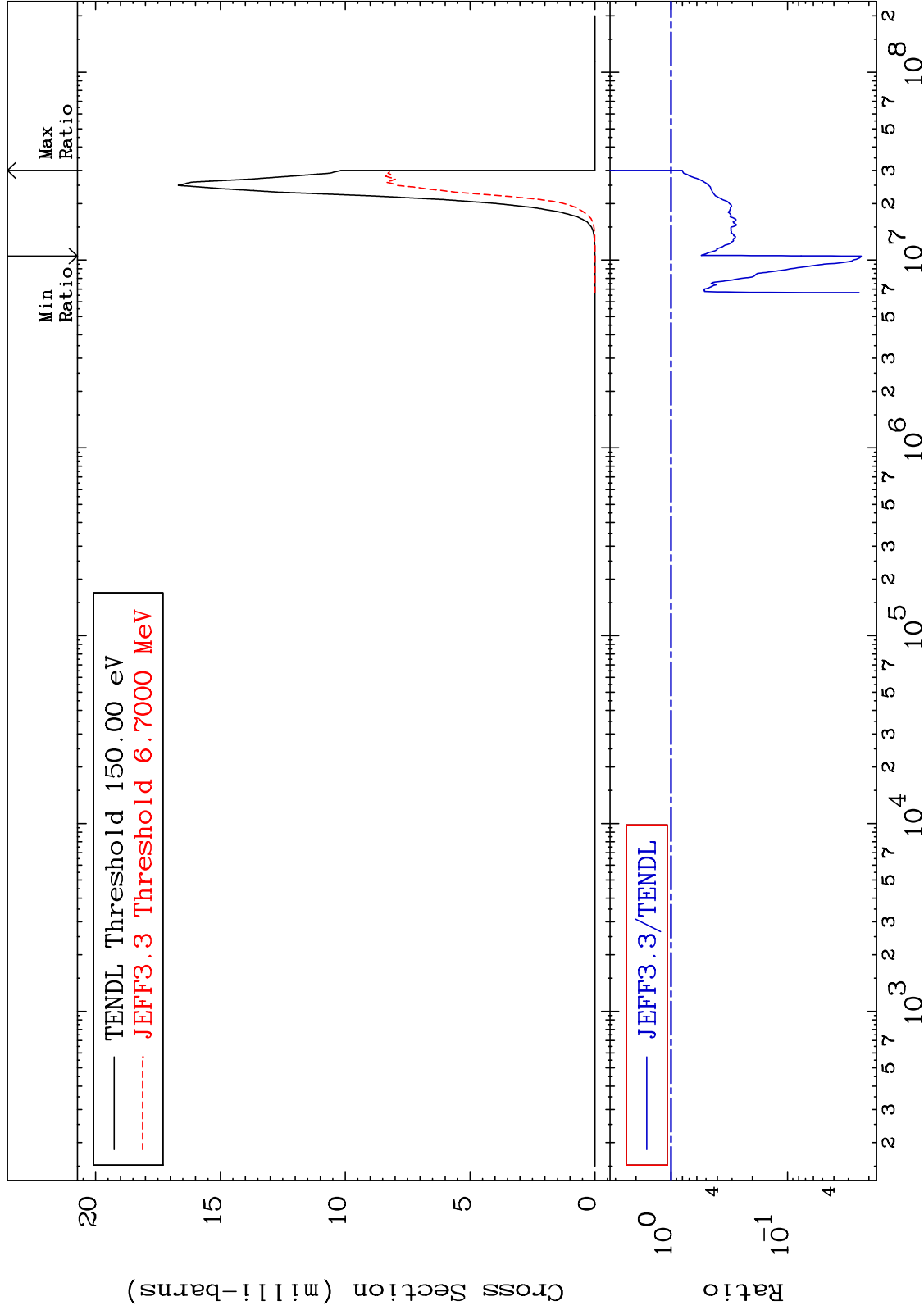
MAT 9543

(n, n') α

95-Am-241

Cross Section

-97.68 To -20.20%



MAT 9543

(n,2n) α

95-Am-241

-99.51 To -84.42%

Cross Section

Min Ratio

Max Ratio

TENDL Threshold 943.95 keV
JEFF3.3 Threshold 13.600 MeV

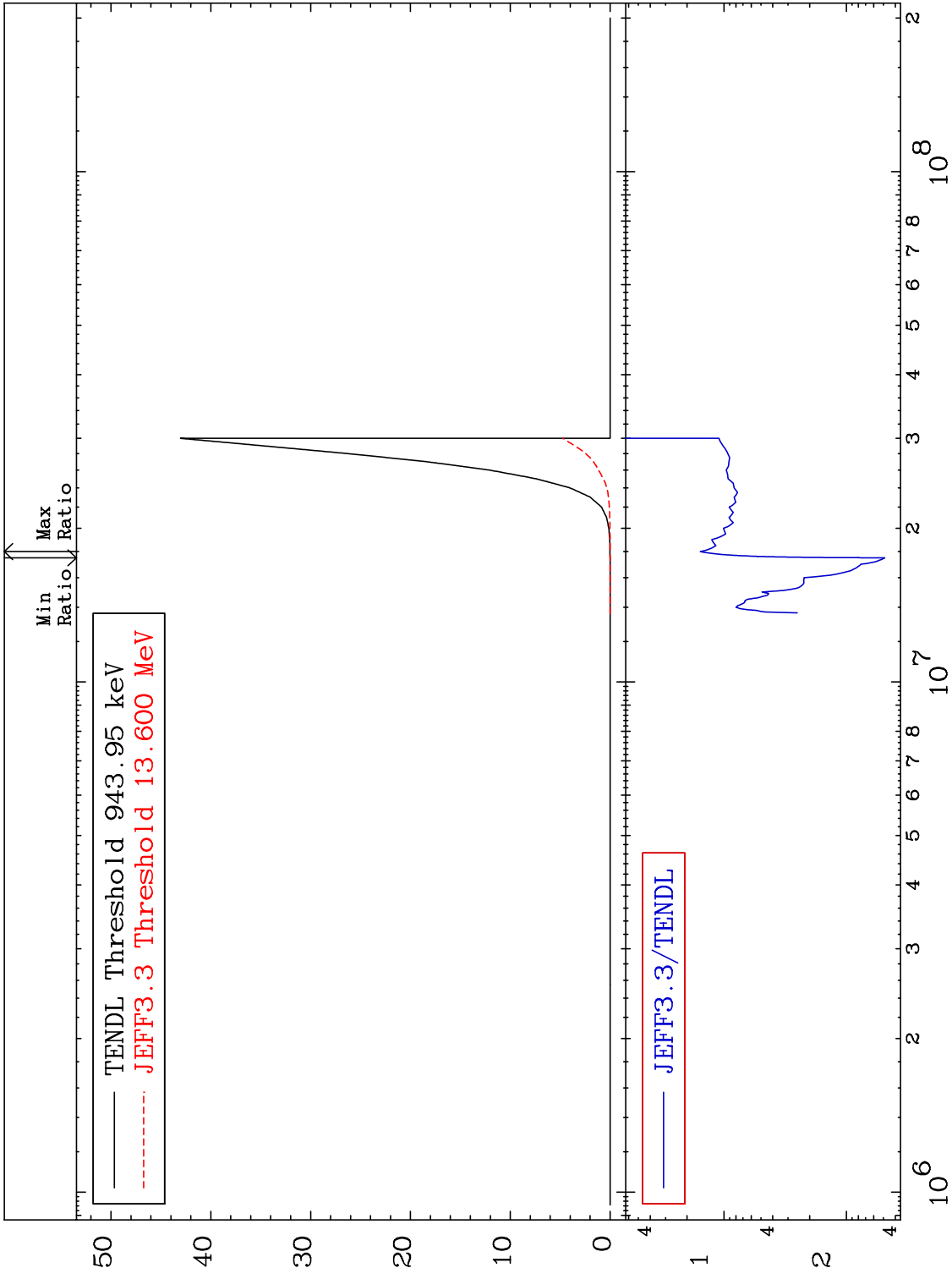
JEFF3.3/TENDL

Cross Section (milli-barns)

Ratio

Incident Energy (eV)

95-Am-241



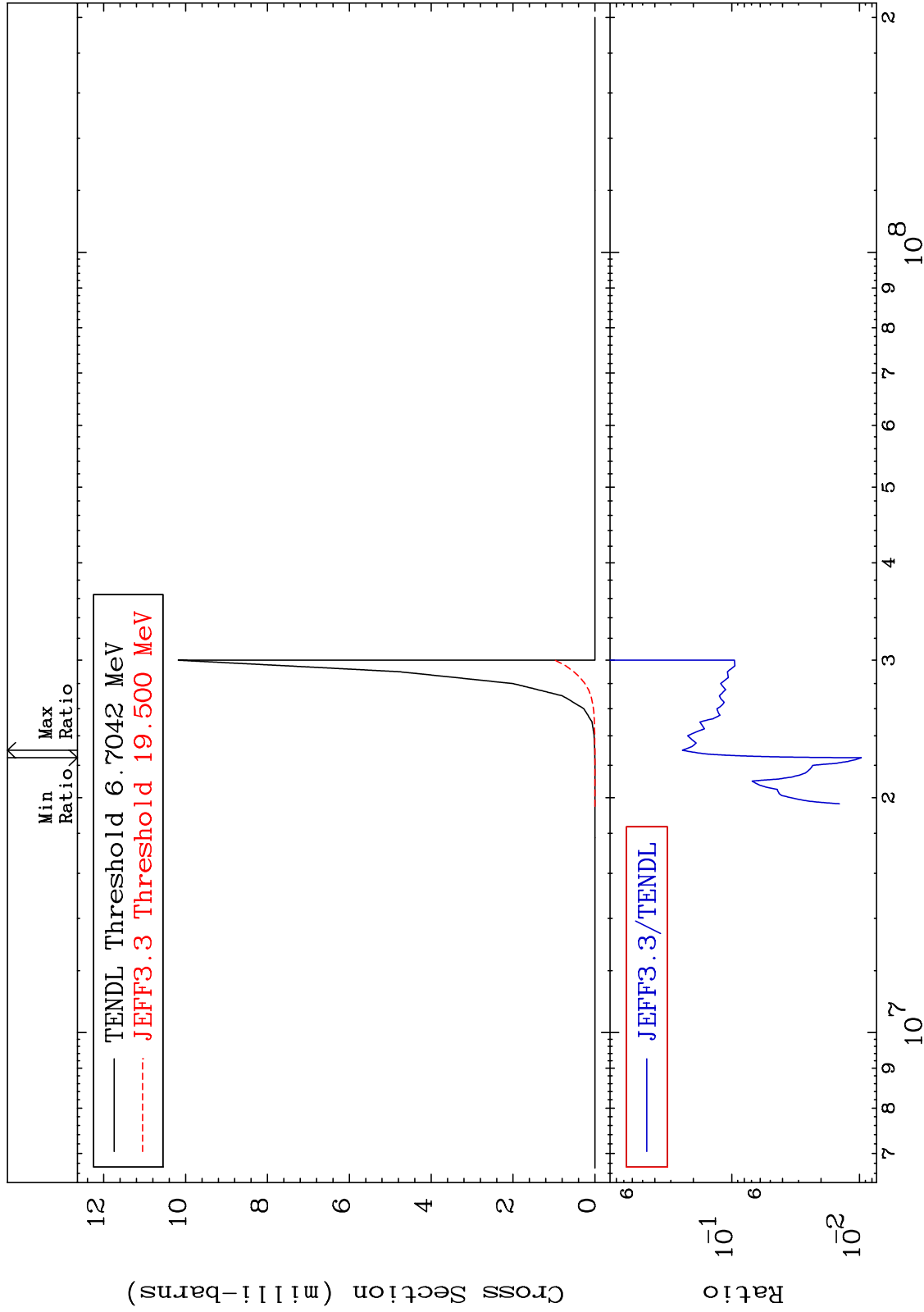
MAT 9543

(n,3n) α

95-Am-241

Cross Section

-99.03 To -75.66%



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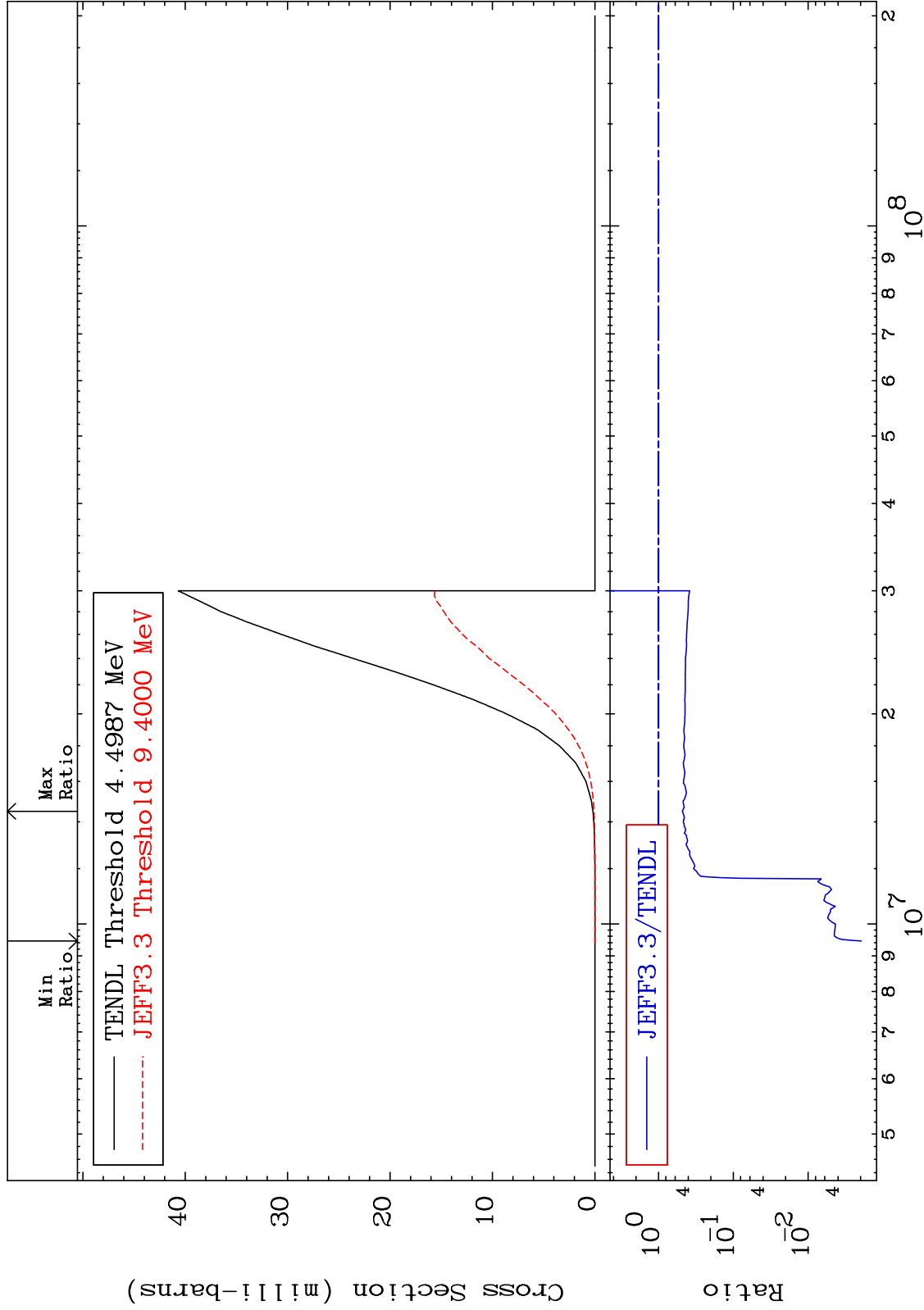
Incident Energy (eV)

95-Am-241

MAT 9543

(n,n') p
Cross Section

95-Am-241
-99.80 To -52.07%

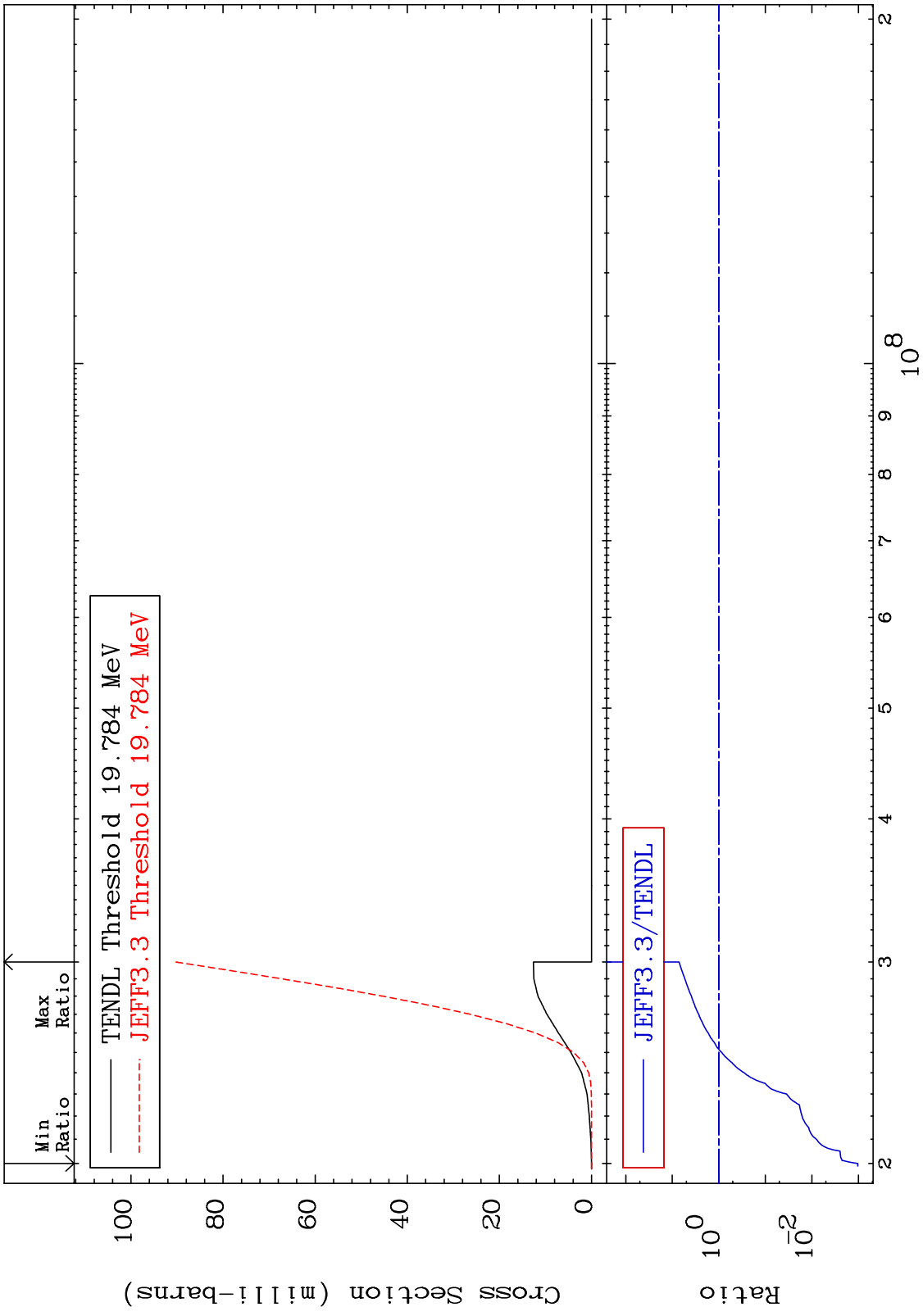


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Incident Energy (eV)

95-Am-241

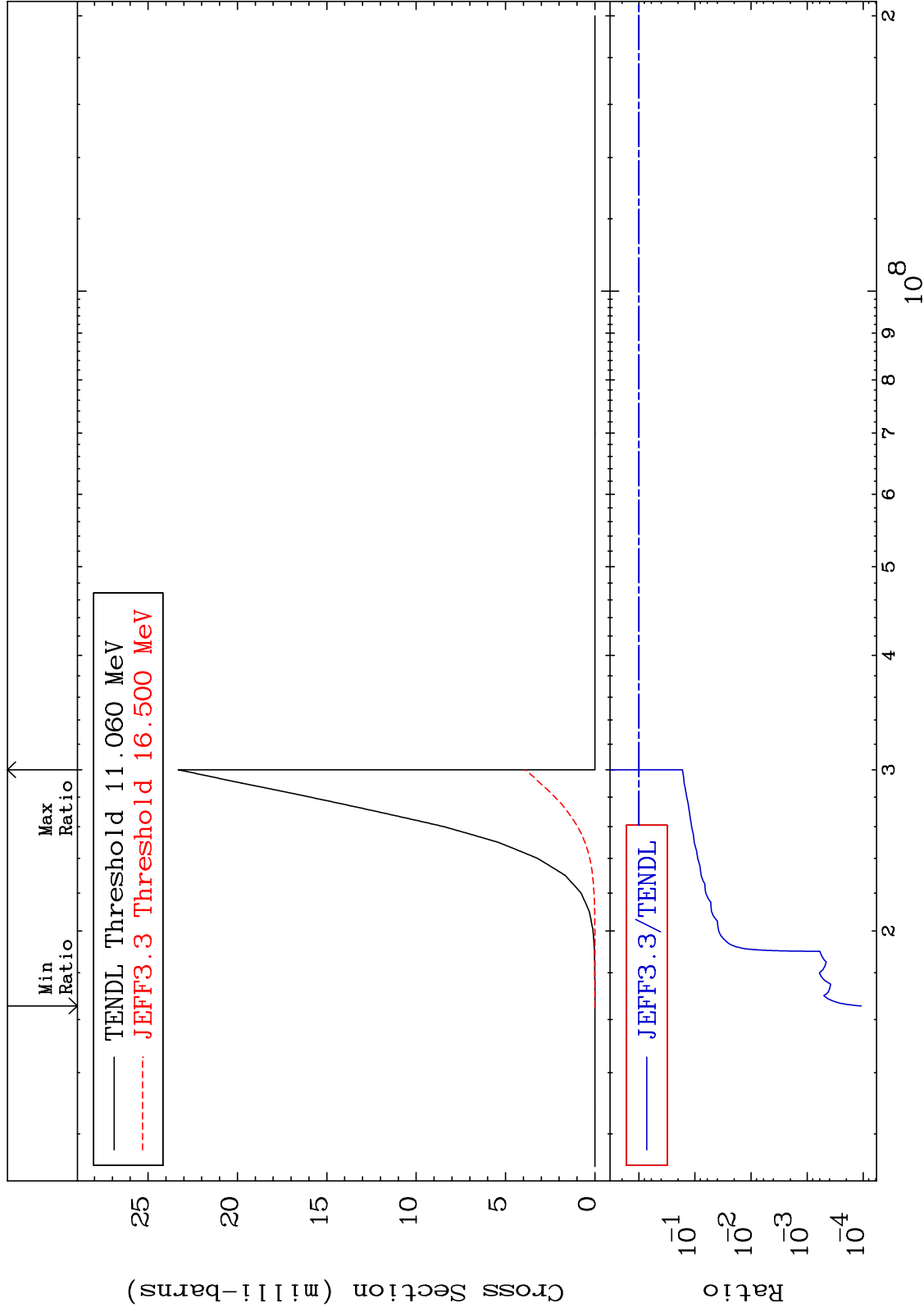
MAT 9543 (n,4n) 95-Am-241
Cross Section -99.90 To 616.3 %



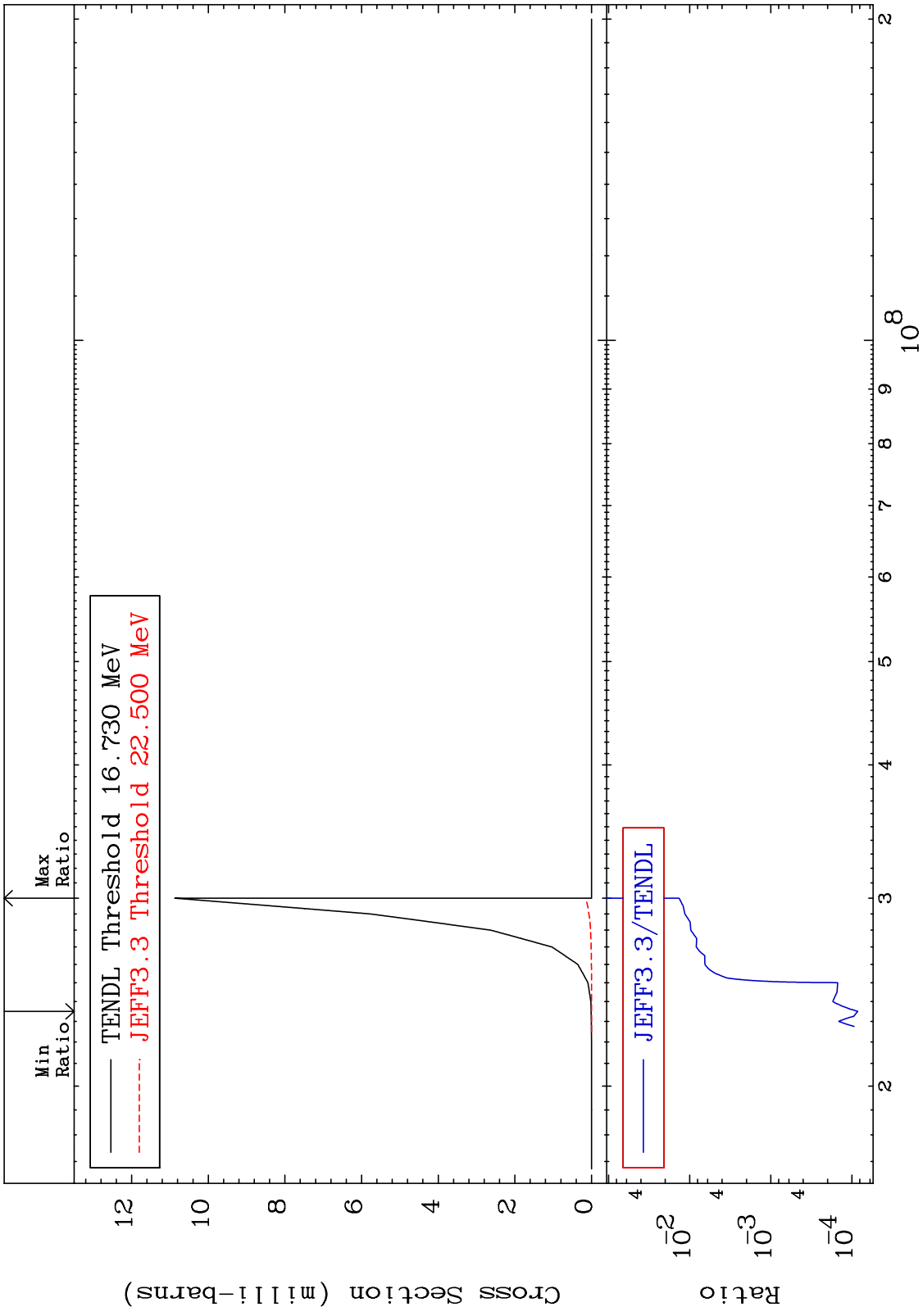
MAT 9543

(n,2n) p
Cross Section

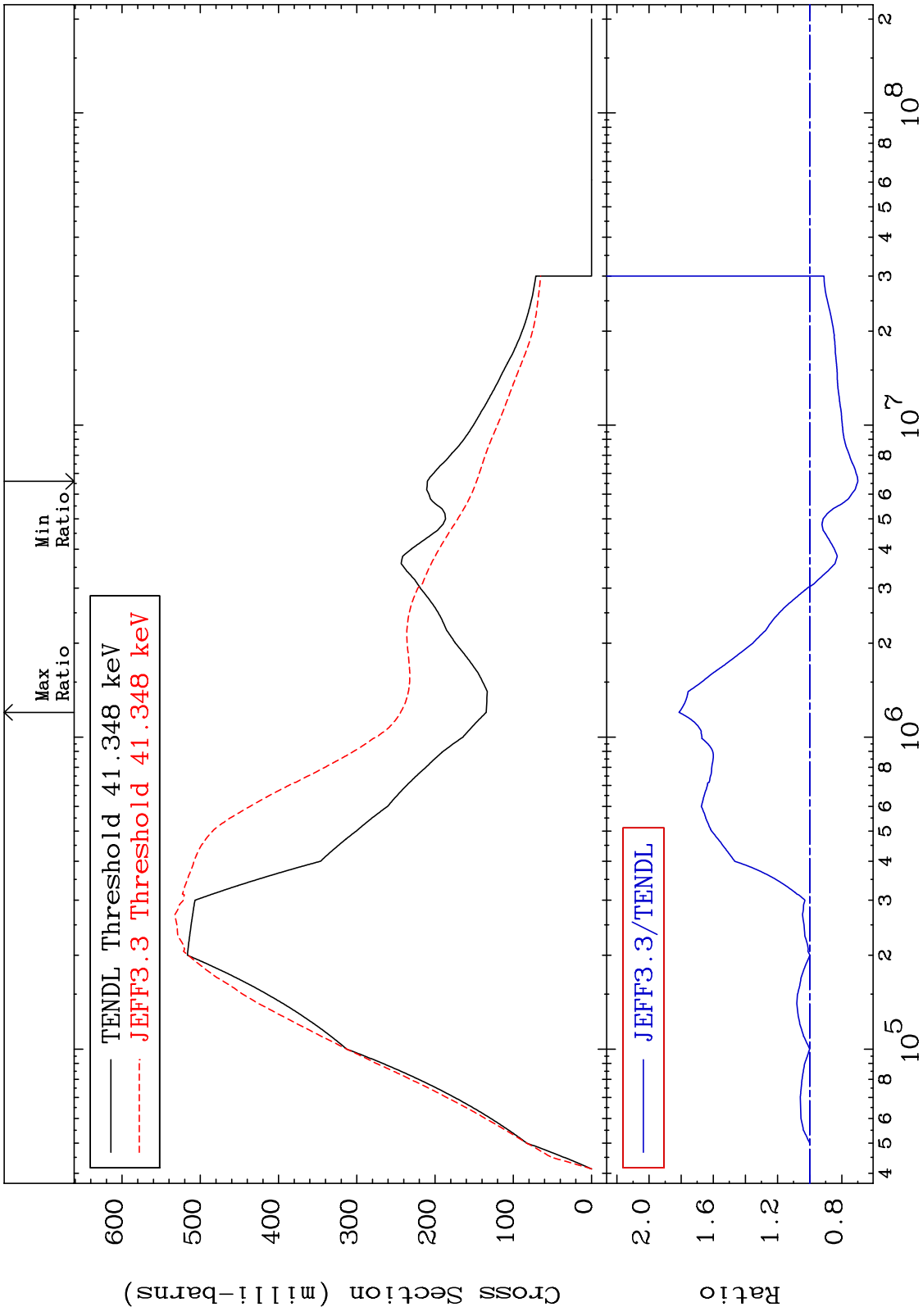
95-Am-241
-99.99 To -83.30%



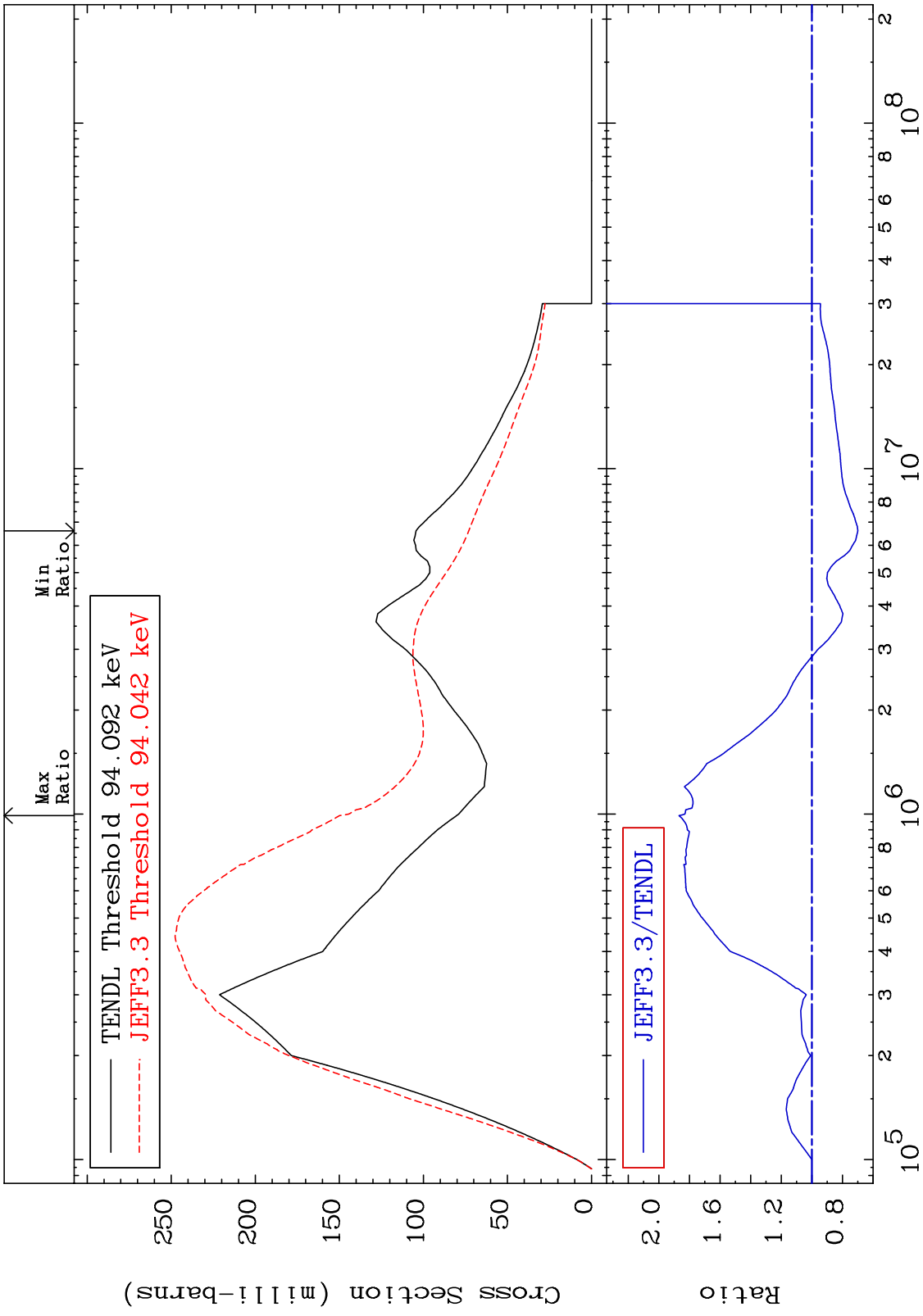
MAT 9543 (n,3n) p 95-Am-241
 Cross Section -99.99 To -98.65%



MAT 9543 MT= 51 (n,n') Level 95-Am-241
 Cross Section -30.02 To 81.32 %

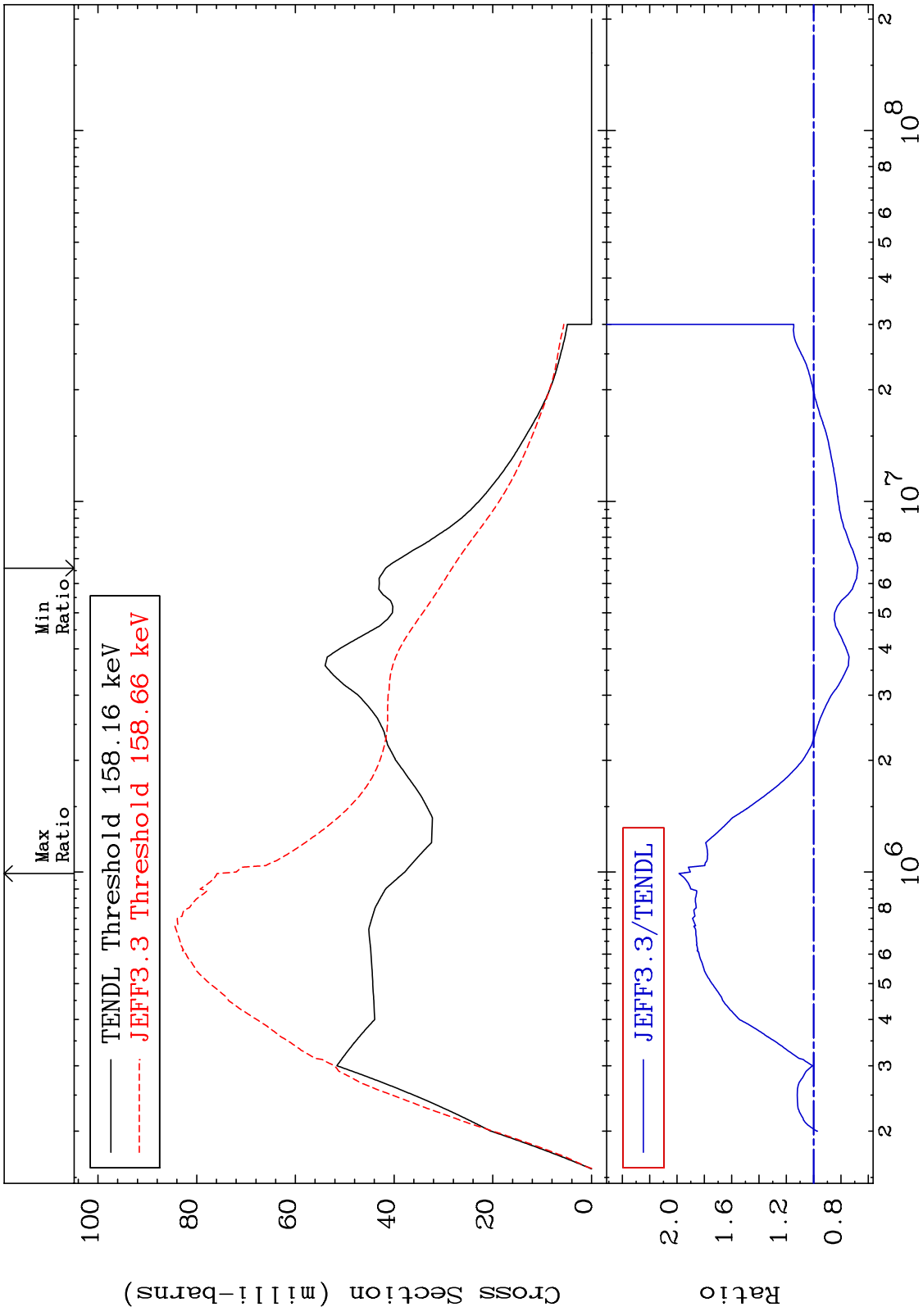


MAT 9543 MT= 52 (n,n') Level Cross Section 95-Am-241 -30.06 To 86.81 %

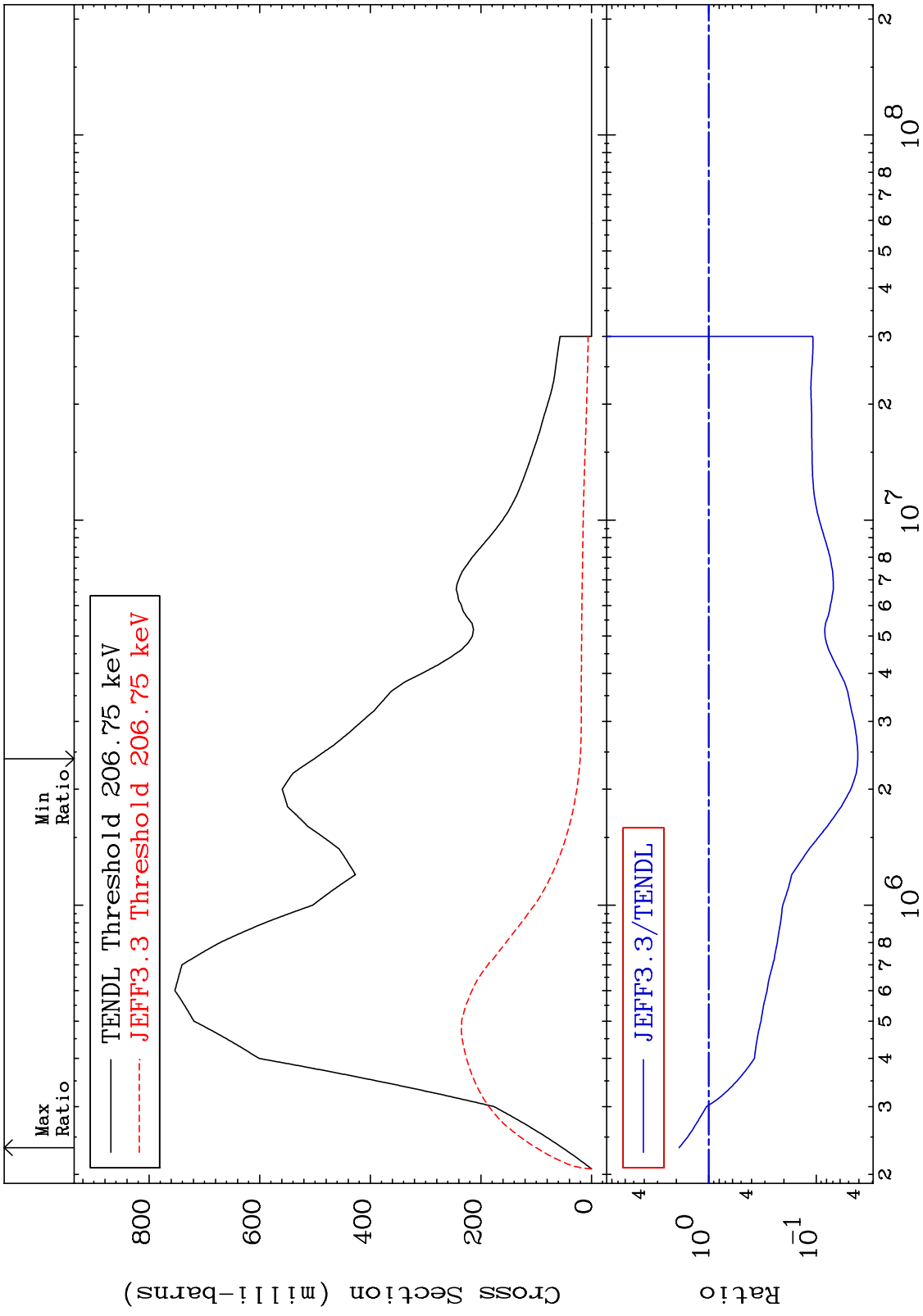


15 95-Am-241

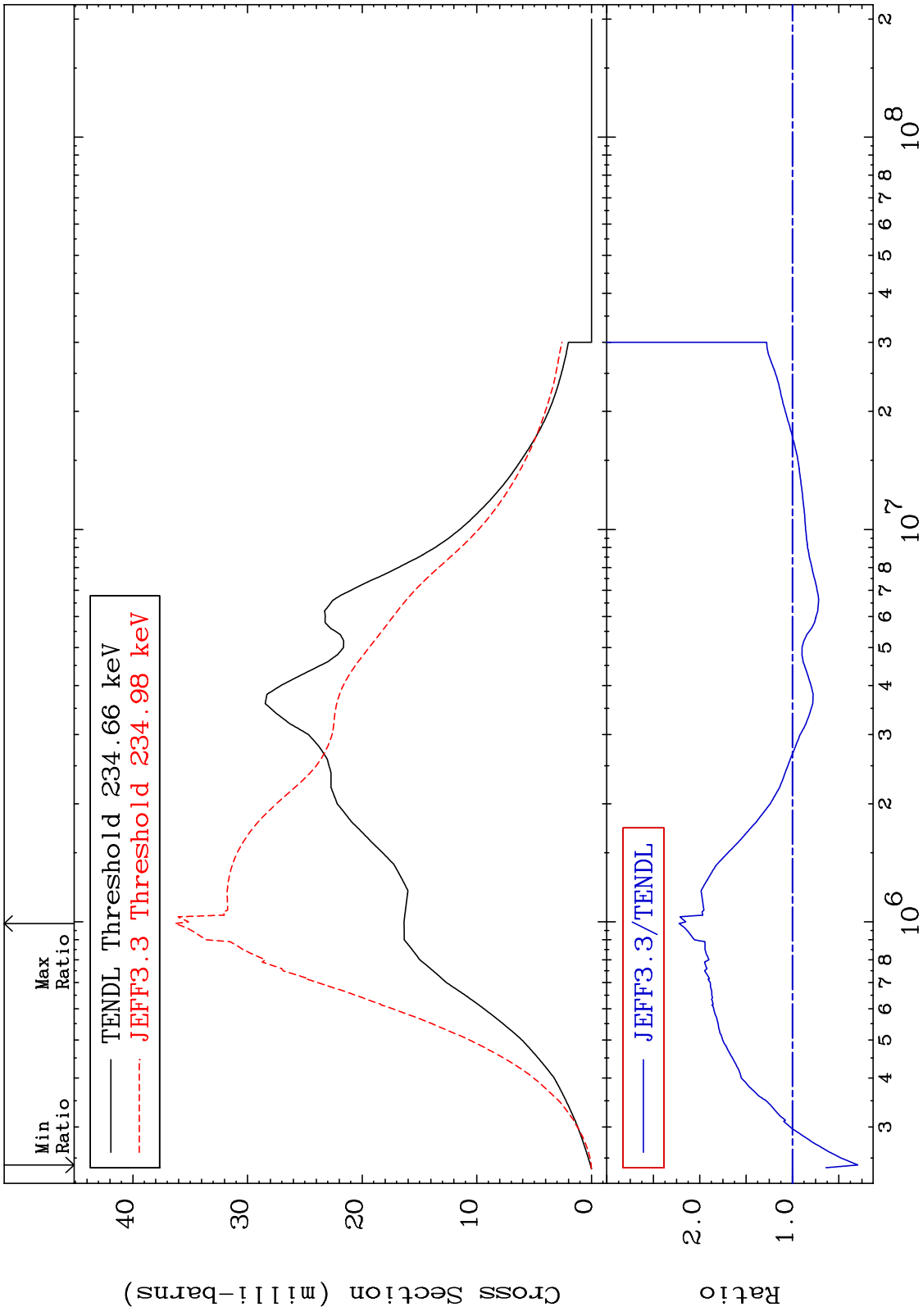
MAT 9543 MT= 53 (n,n') Level Cross Section 95-Am-241
 -32.29 To 98.57 %



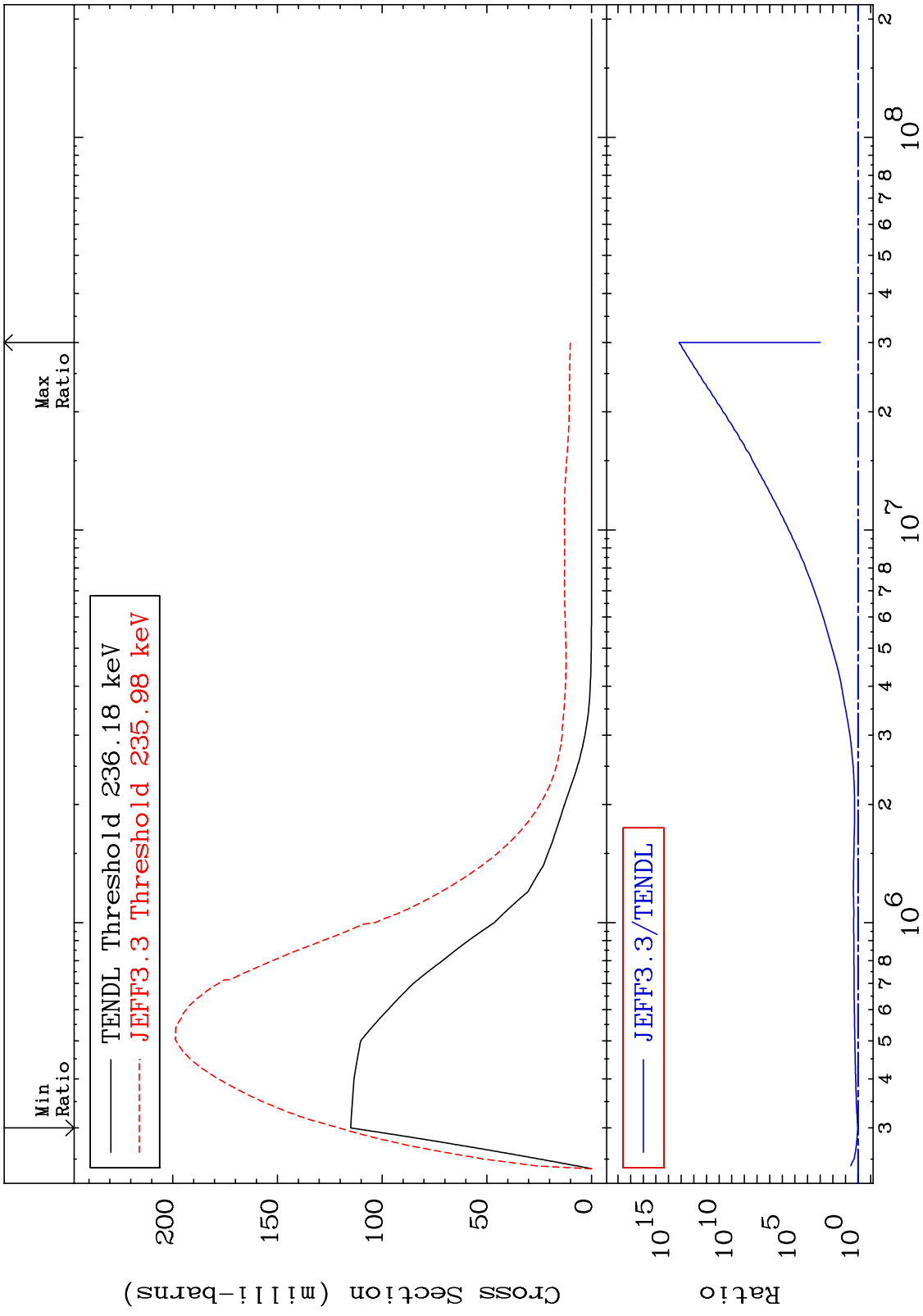
MAT 9543 MT= 54 (n,n') Level 95-Am-241
 Cross Section -95.91 To 89.20 %



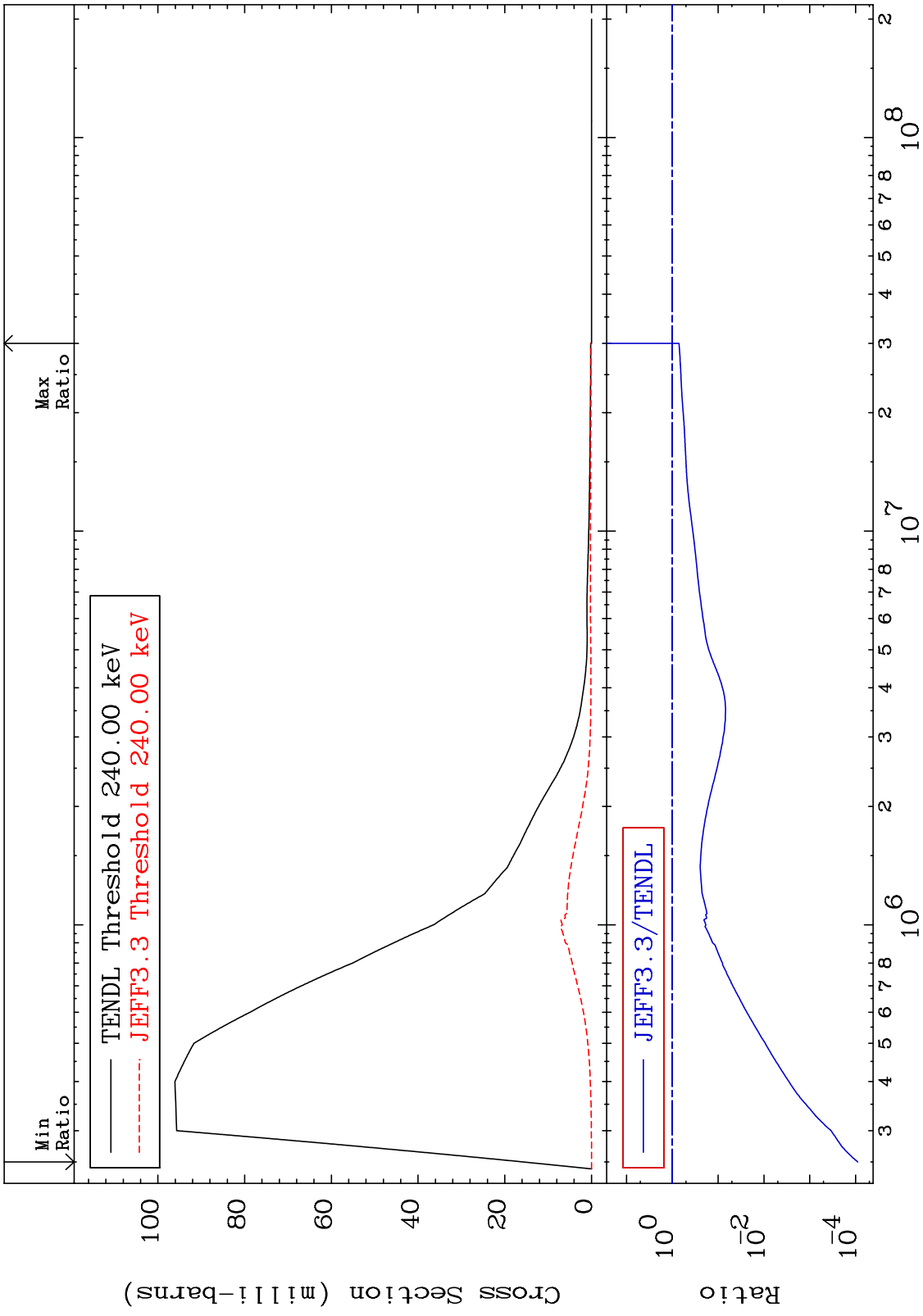
MAT 9543 MT= 55 (n,n') Level Cross Section 95-Am-241 -70.51 To 122.3 %



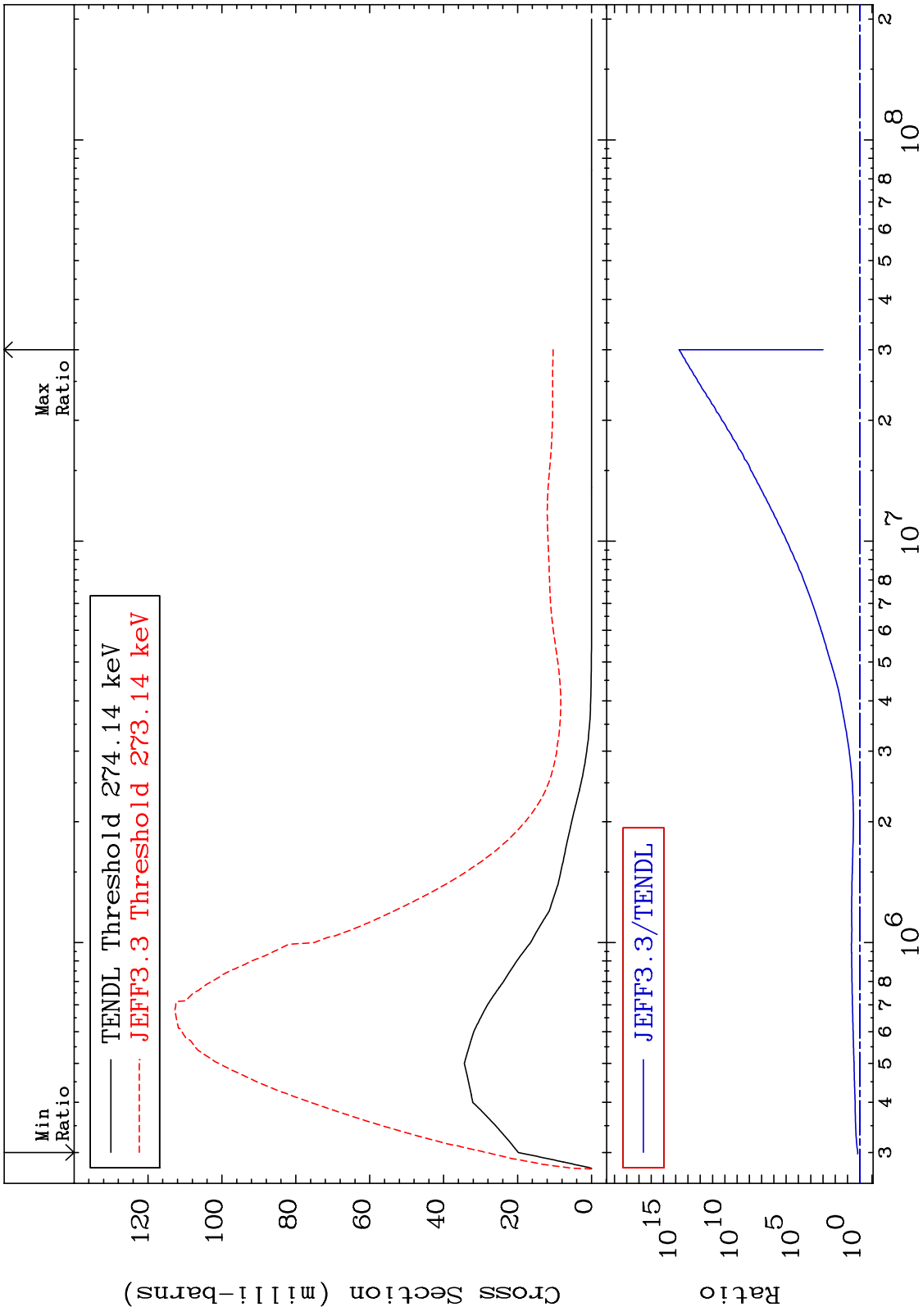
MAT 9543 MT= 56 (n,n') Level Cross Section 95-Am-241 To 9999. %



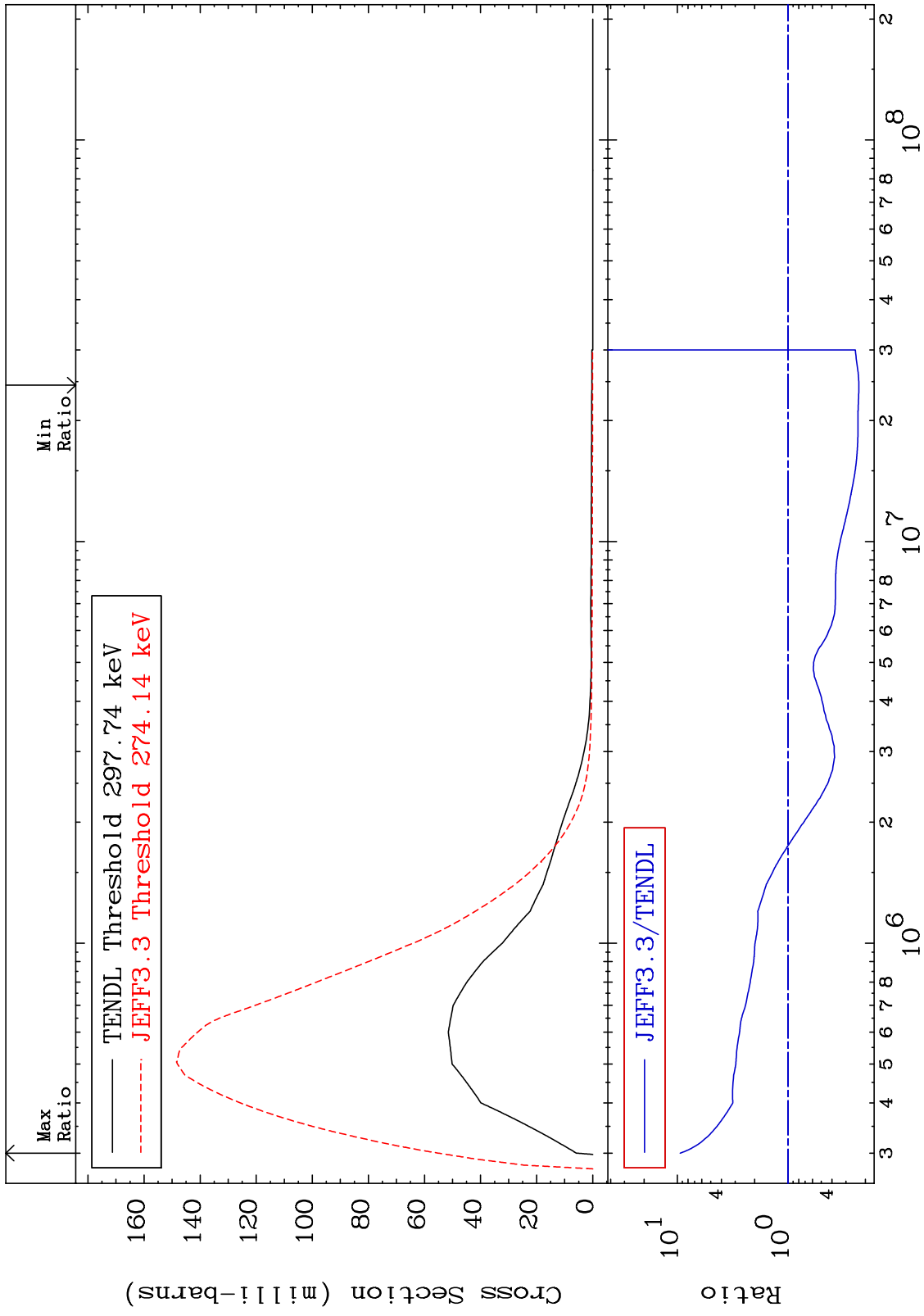
MAT 9543 MT= 57 (n,n') Level Cross Section 95-Am-241
 -99.99 To -28.88%



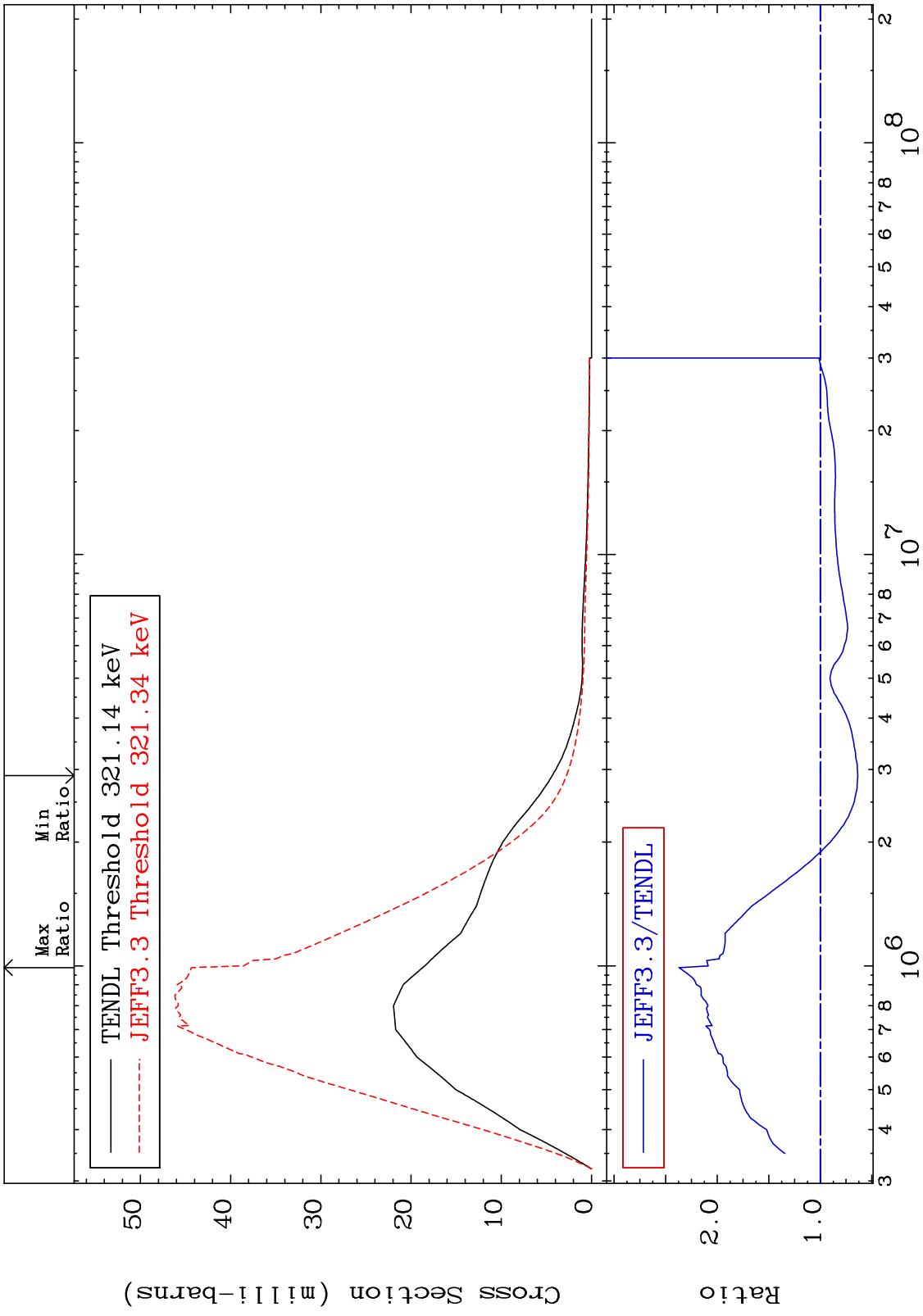
MAT 9543 MT= 58 (n,n') Level Cross Section 95-Am-241 43.52 To 9999. %



MAT 9543 MT= 59 (n,n') Level 95-Am-241
 Cross Section -77.11 To 841.6 %

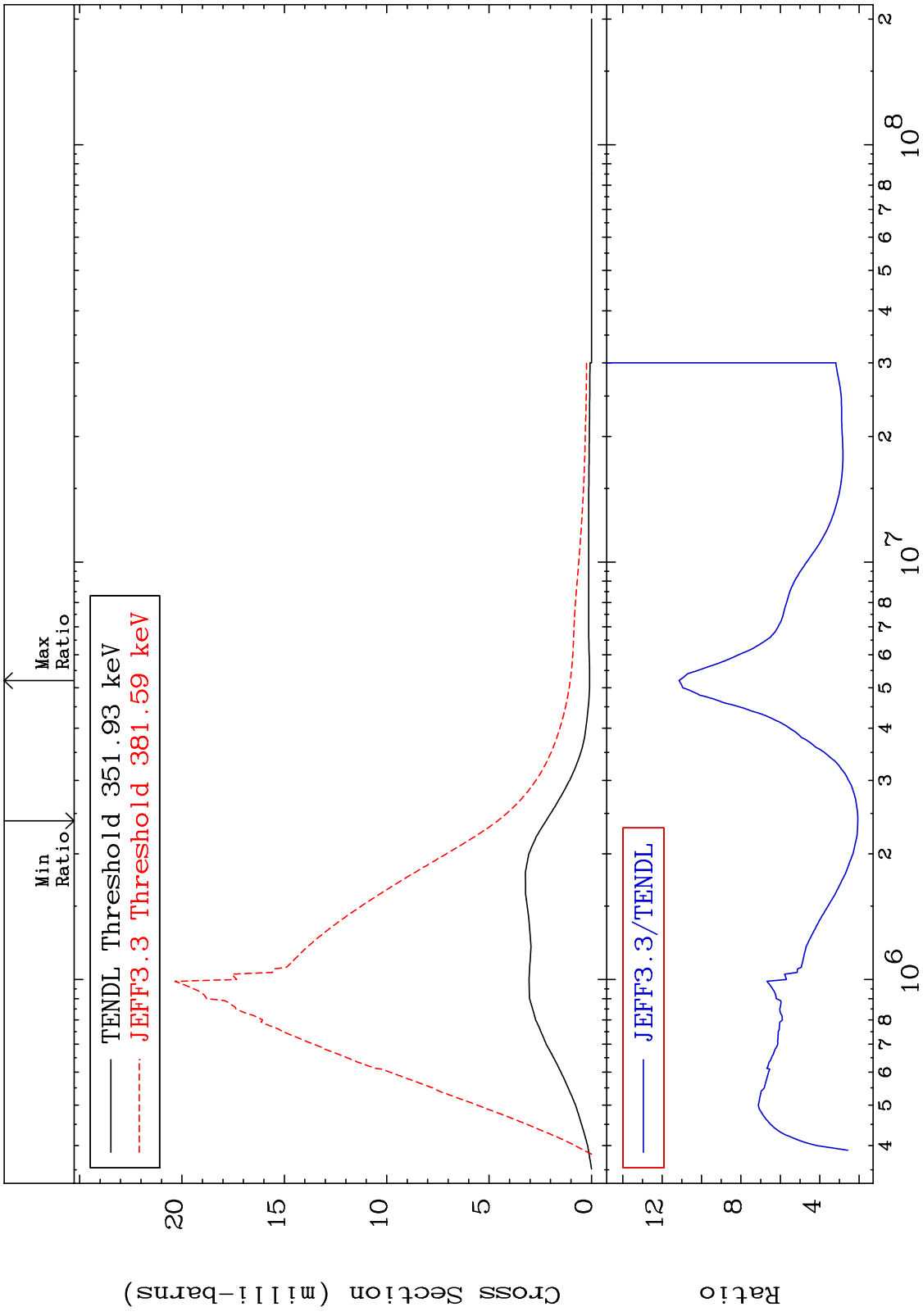


MAT 9543 MT= 60 (n,n') Level Cross Section 95-Am-241
 -36.39 To 137.0 %

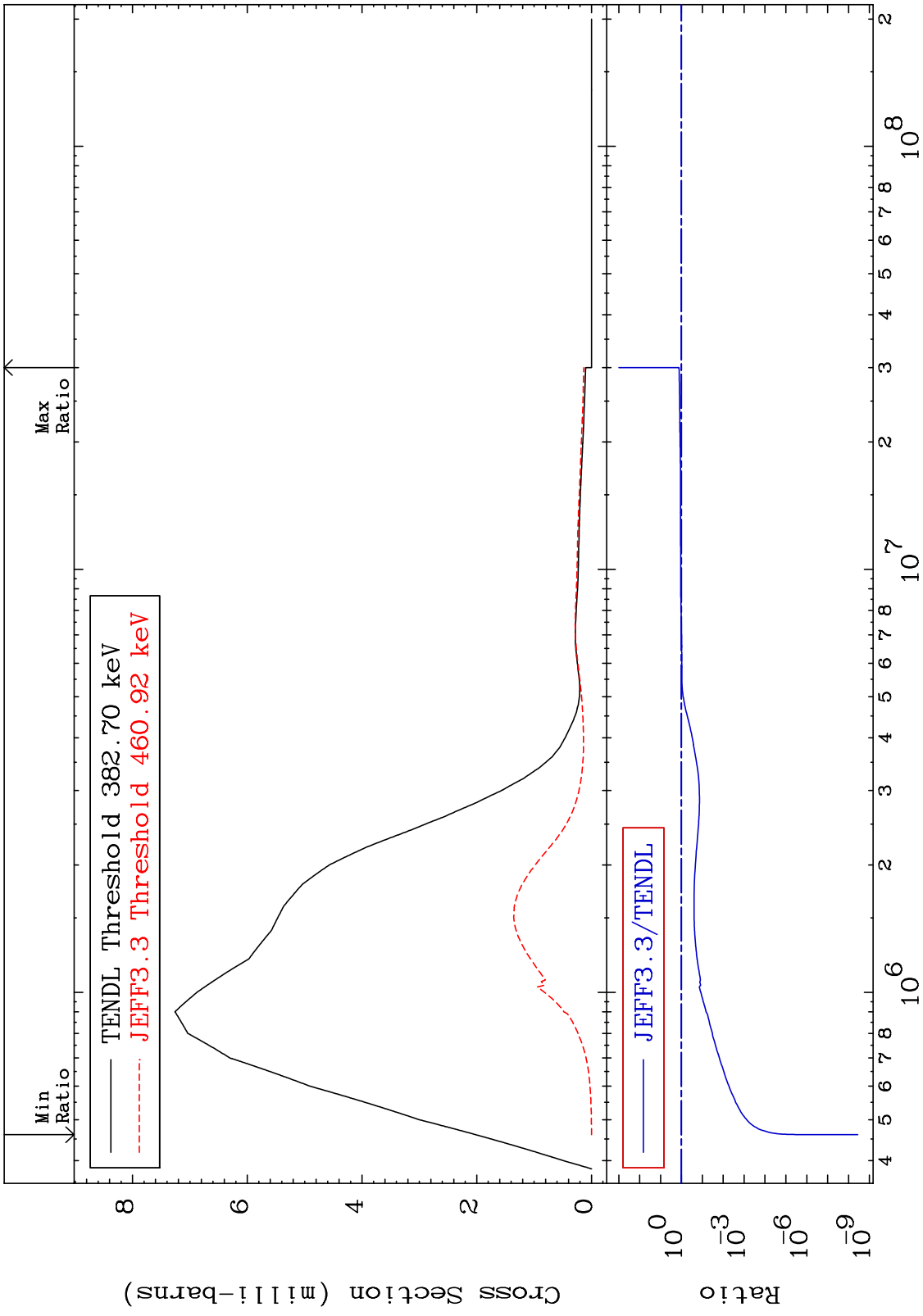


23 95-Am-241

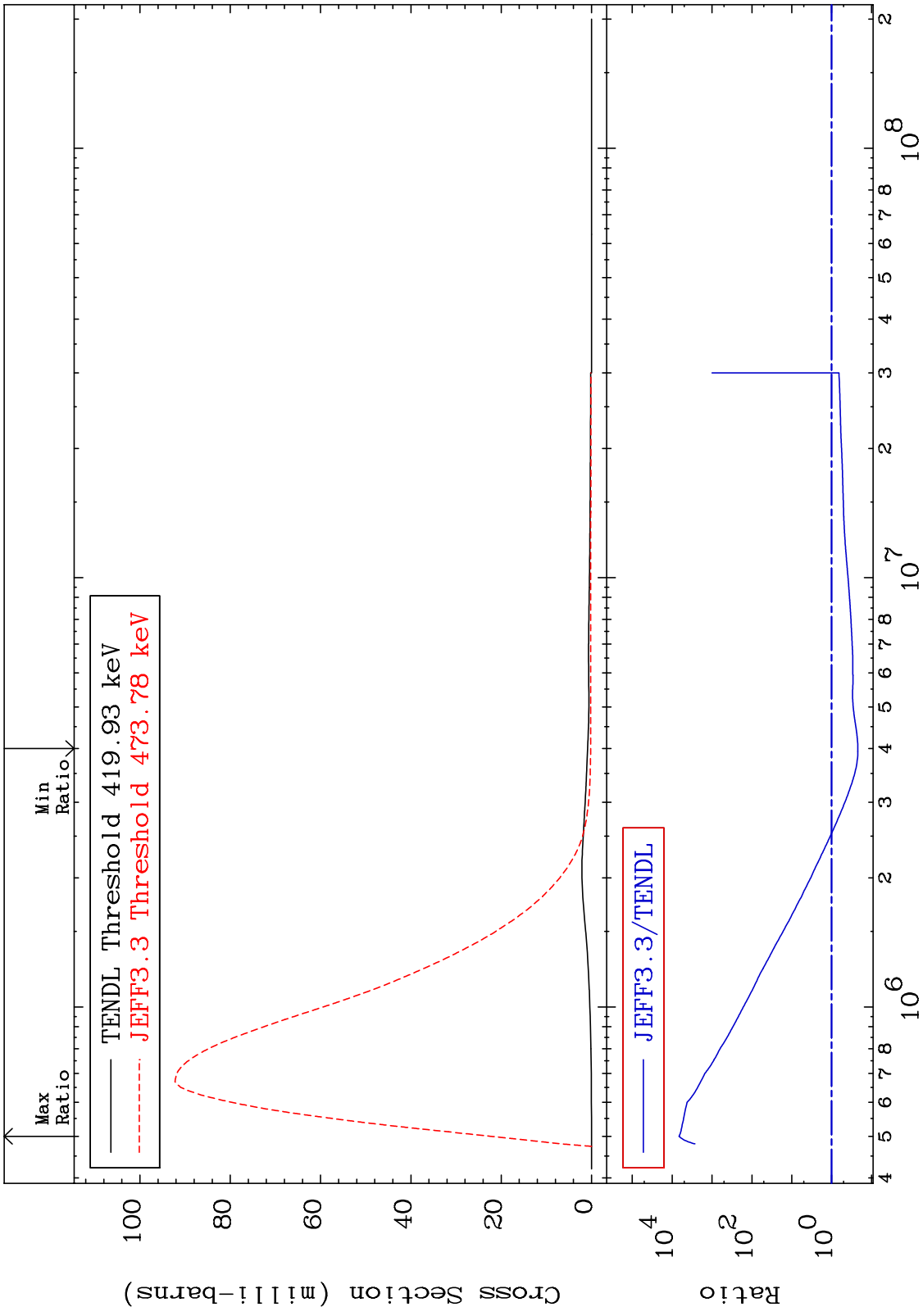
MAT 9543 MT= 61 (n,n') Level Cross Section 95-Am-241 To 1014. %



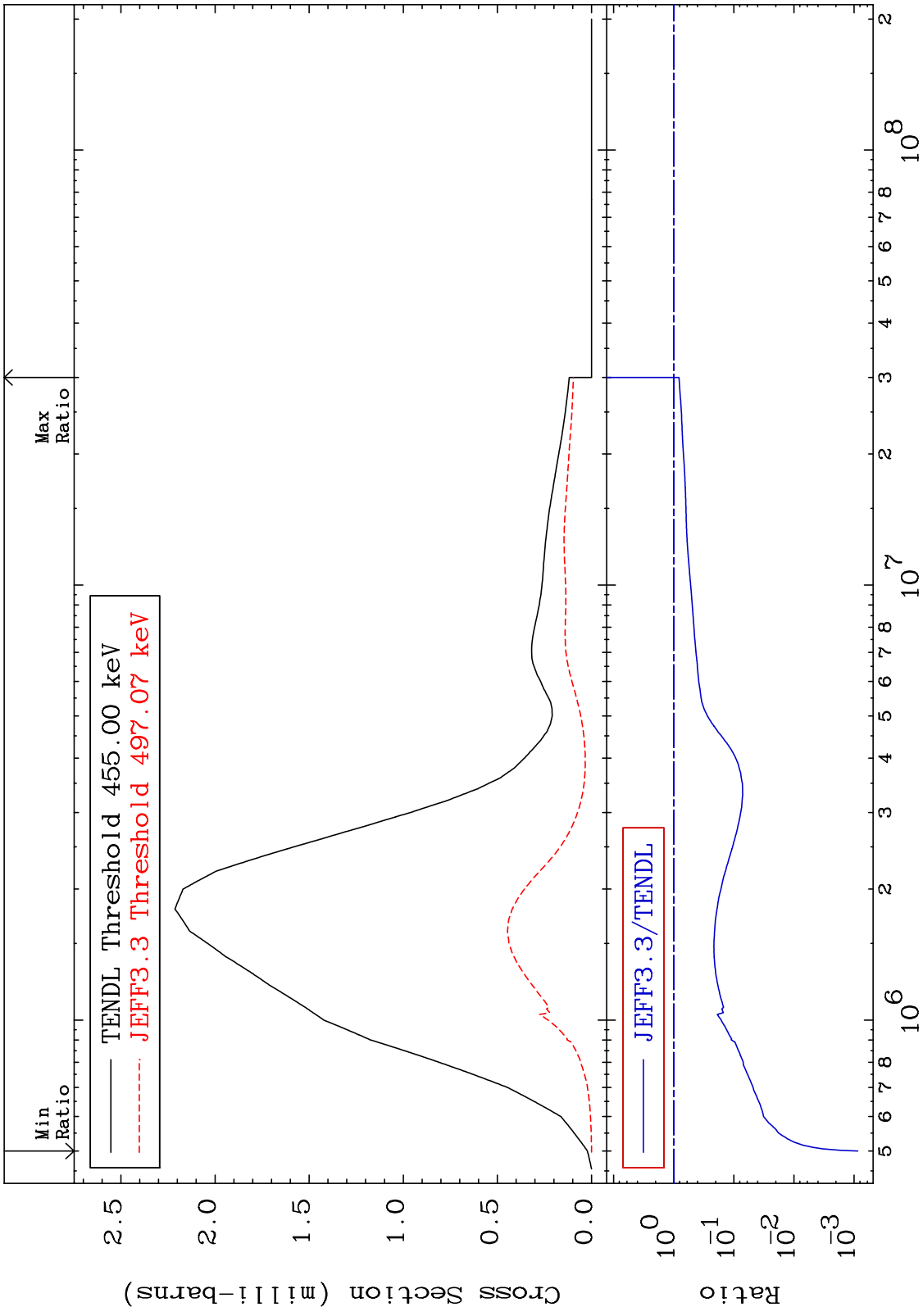
MAT 9543 MT= 62 (n,n') Level Cross Section 95-Am-241
 -100.0 To 30.04 %



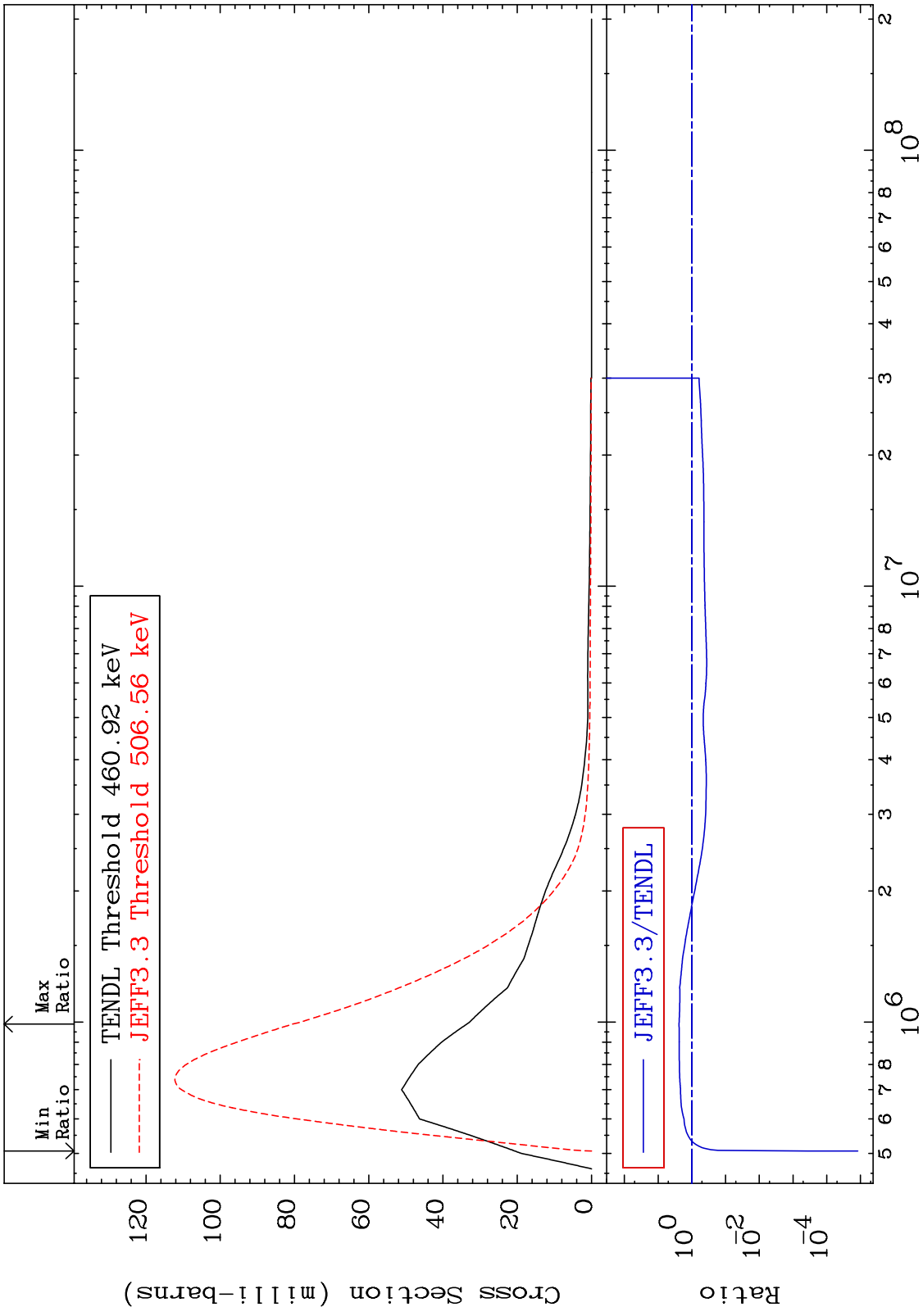
MAT 9543 MT= 63 (n,n') Level Cross Section 95-Am-241
 -78.02 To 9999. %



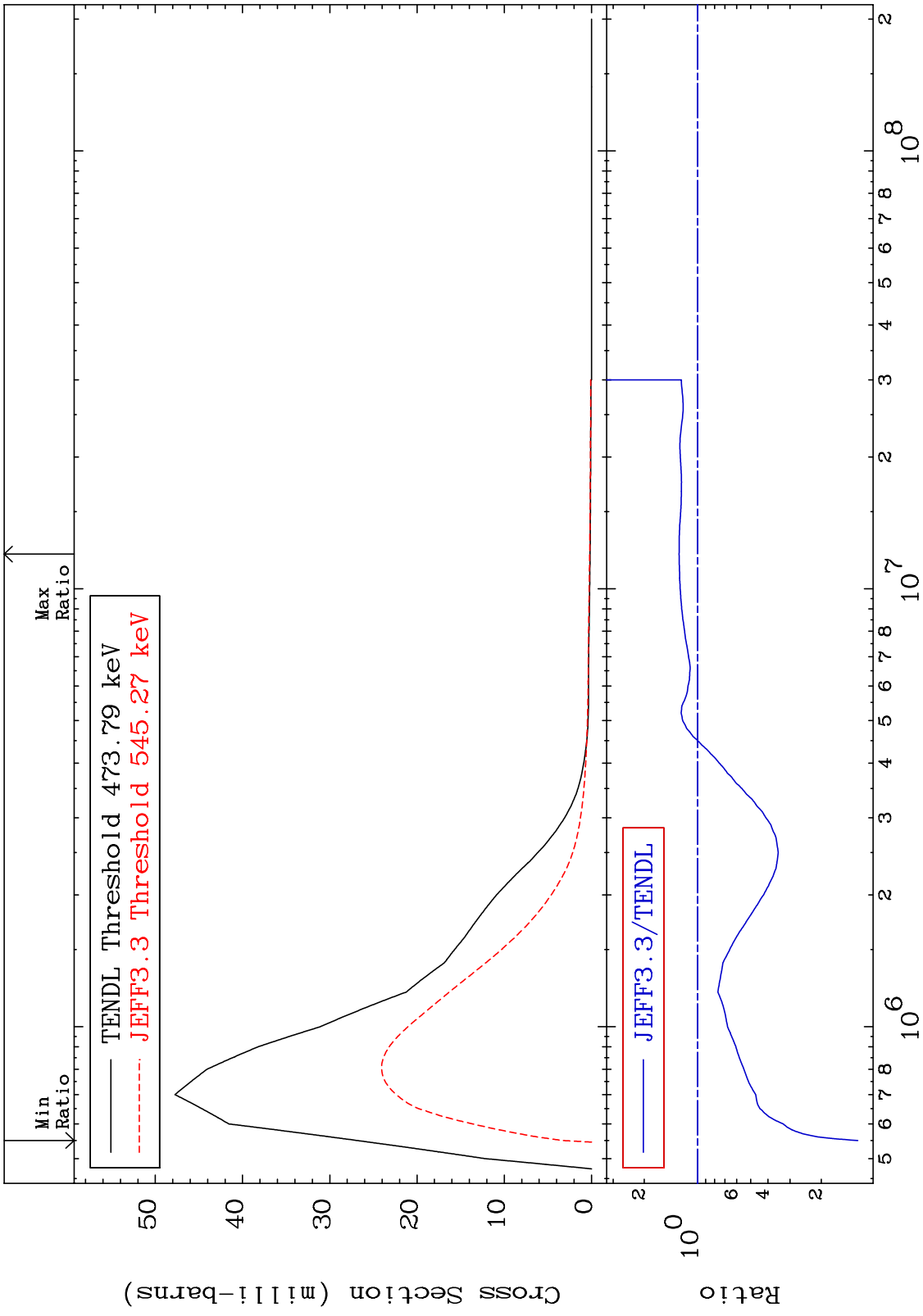
MAT 9543 MT= 64 (n,n') Level Cross Section 95-Am-241 -99.91 To -18.50%



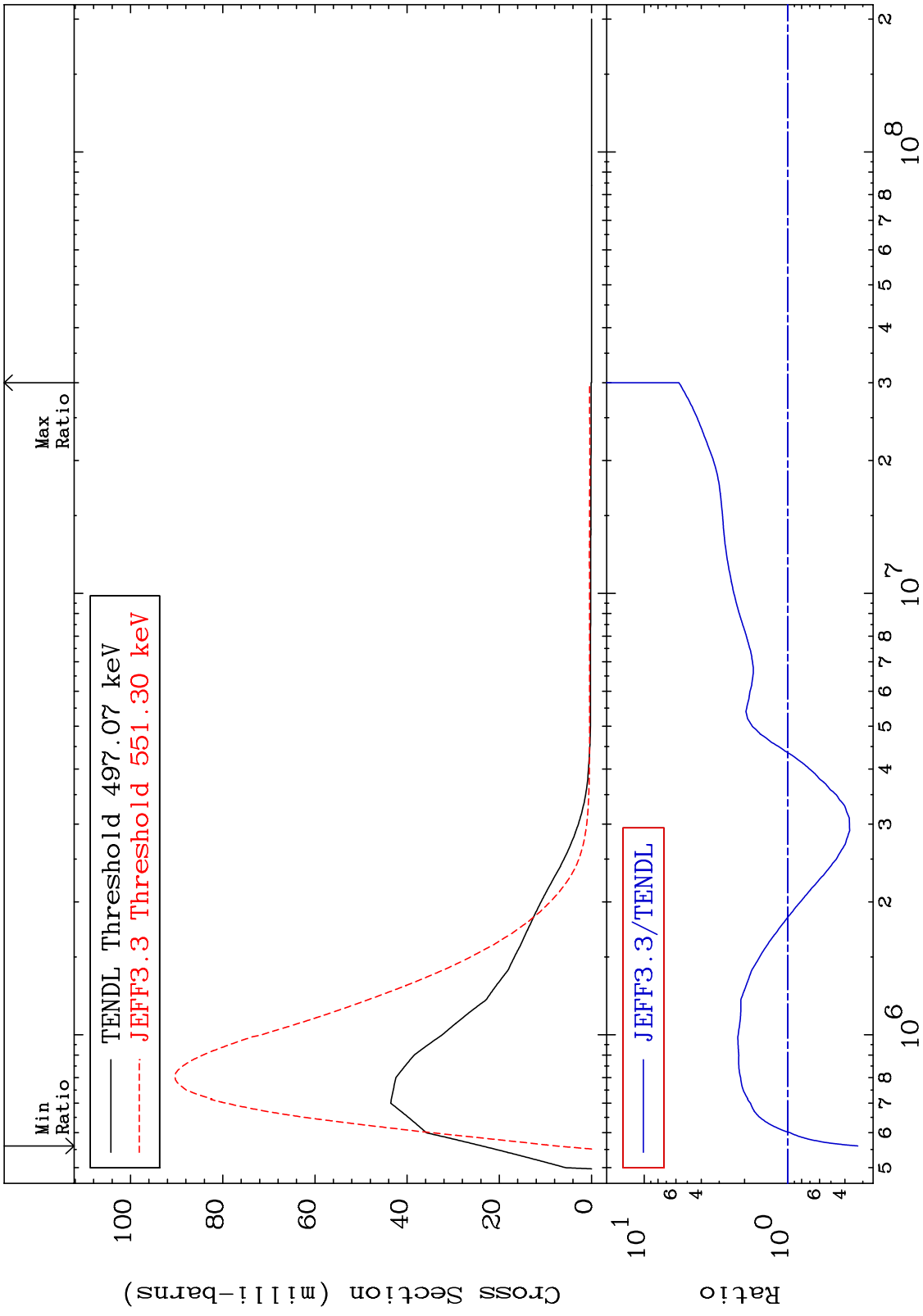
MAT 9543 MT= 65 (n,n') Level Cross Section 95-Am-241
 -100.0 To 139.5 %



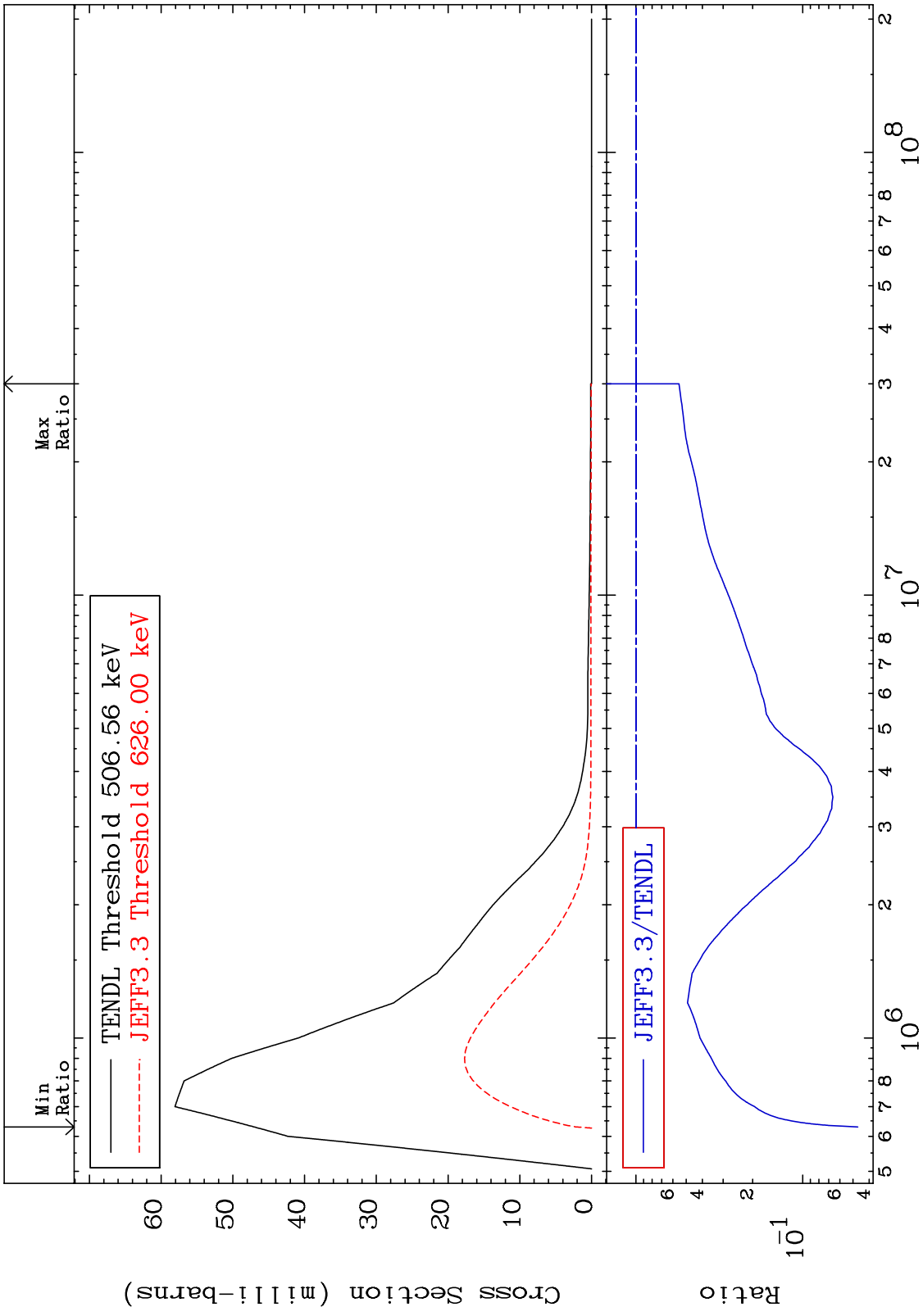
MAT 9543 MT= 66 (n,n') Level 95-Am-241
 Cross Section -87.58 To 27.15 %



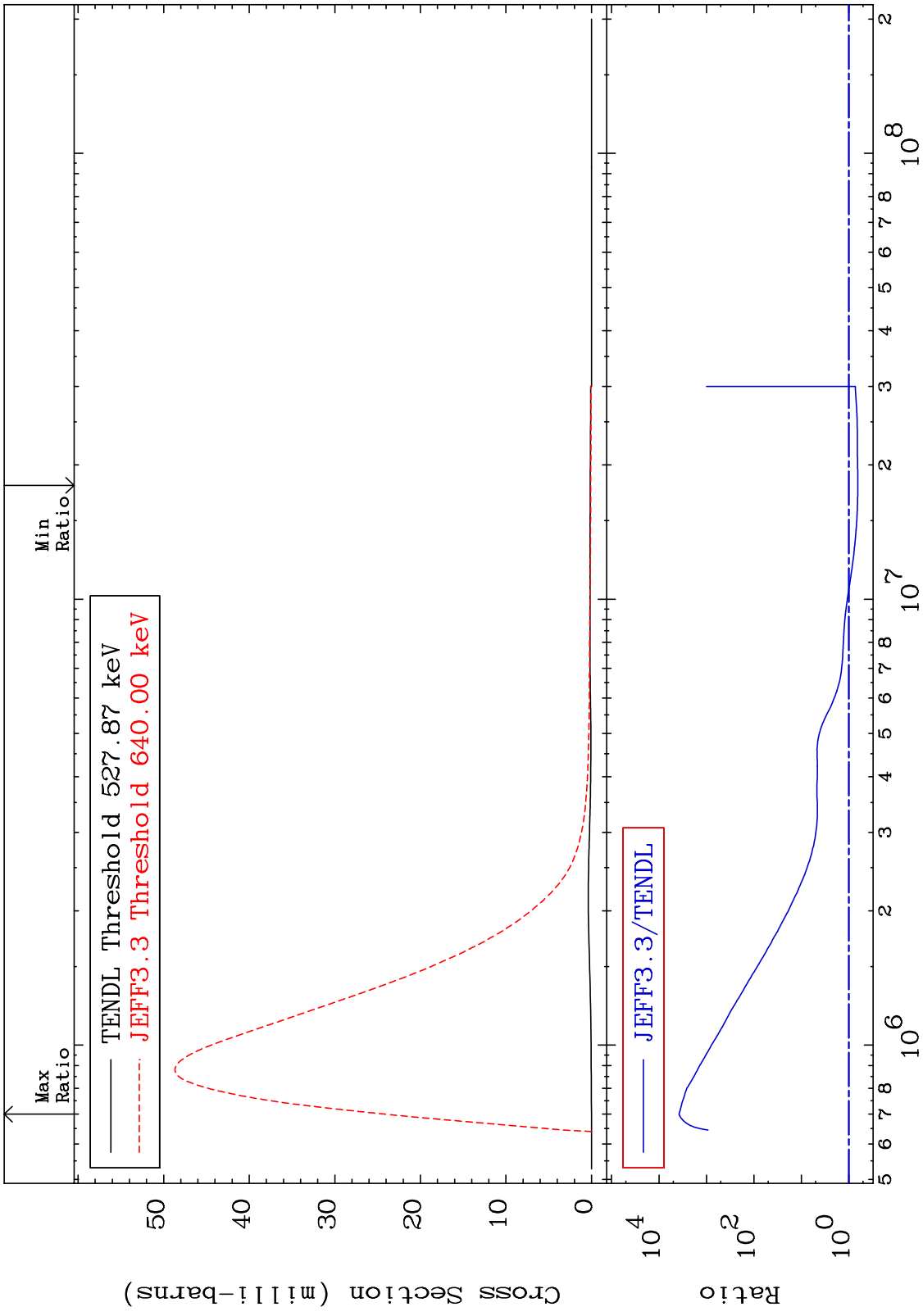
MAT 9543 MT= 67 (n,n') Level Cross Section 95-Am-241 -67.52 To 471.5 %



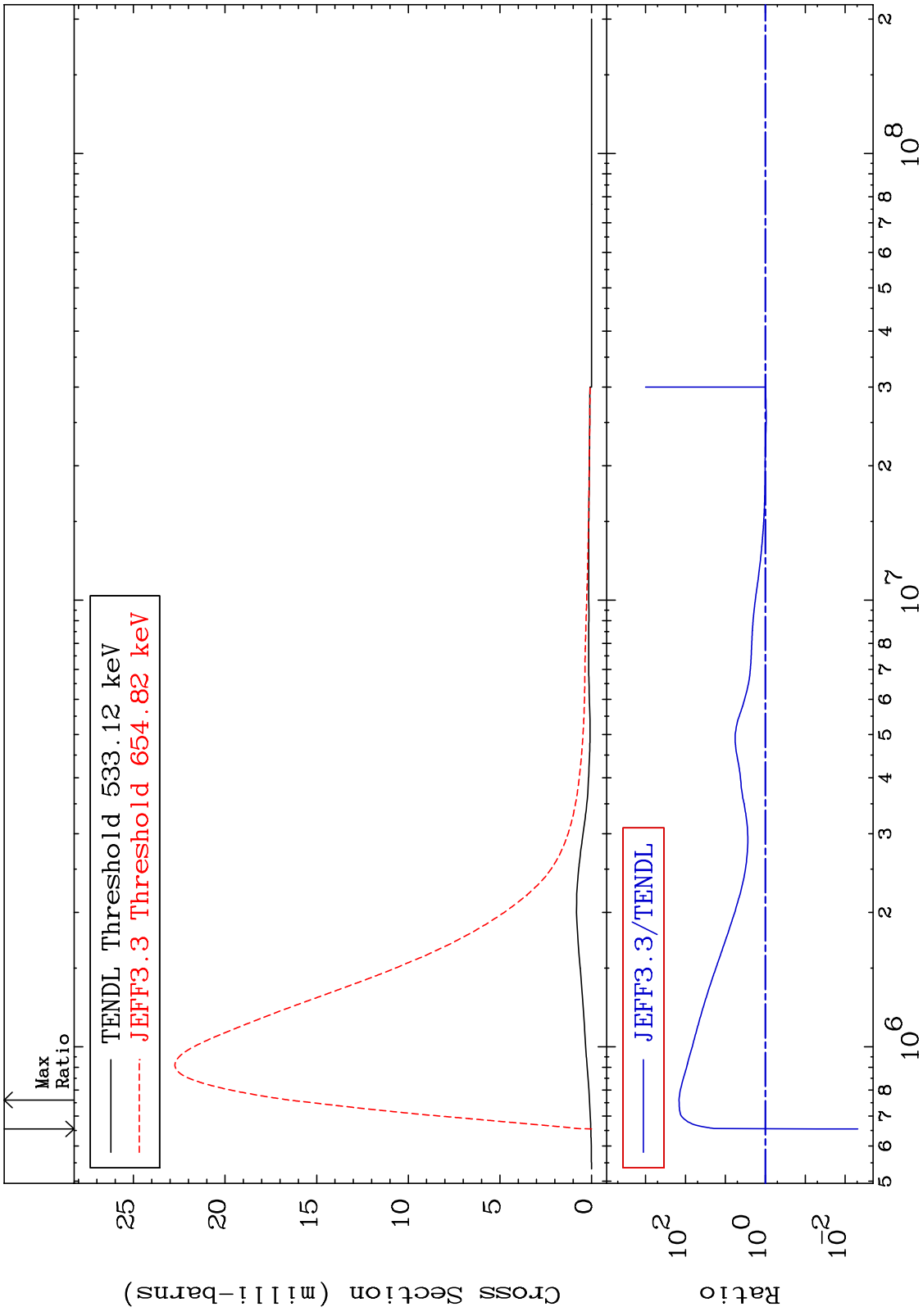
MAT 9543 MT= 68 (n,n') Level Cross Section 95-Am-241
 -95.32 To -44.85%



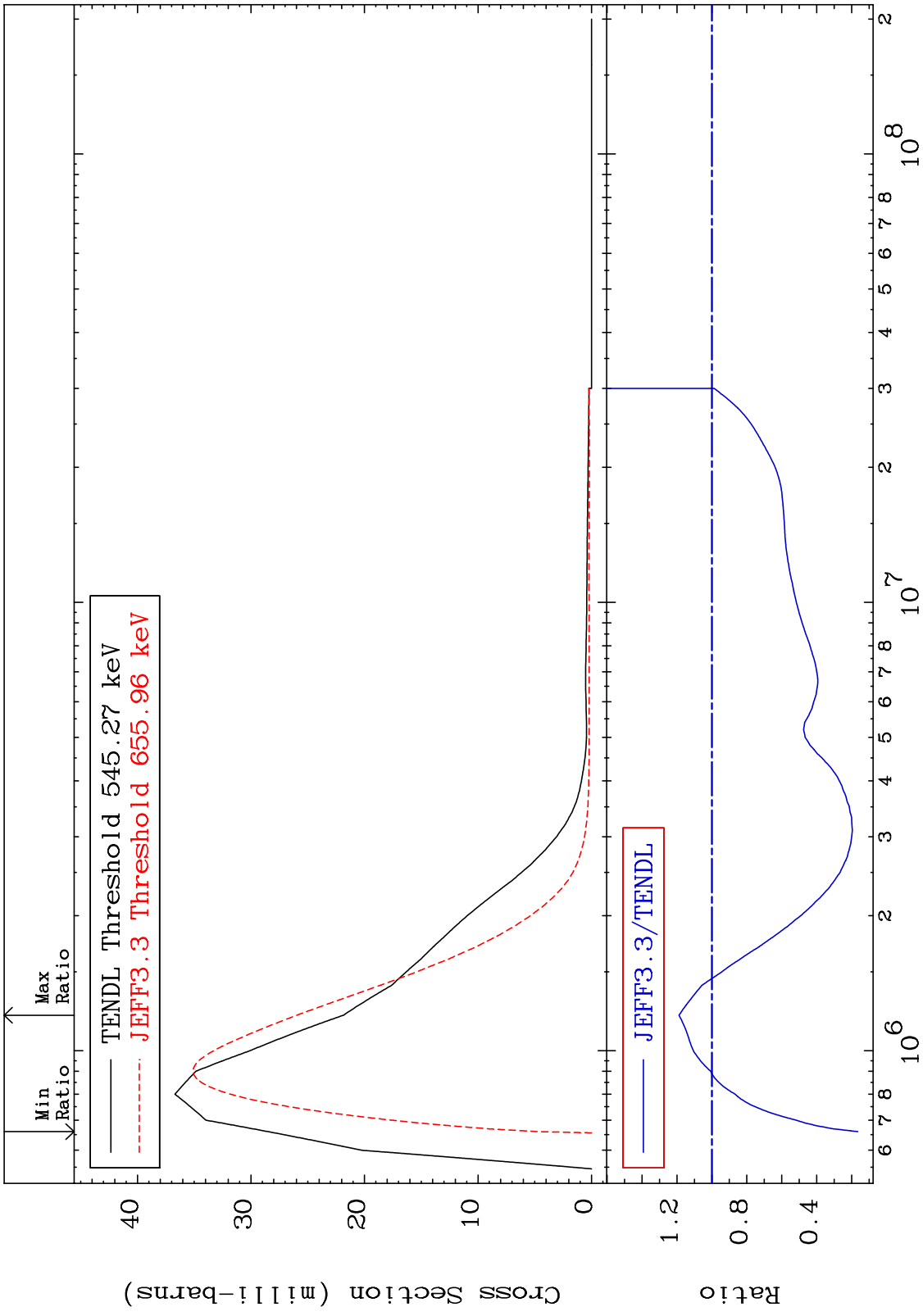
MAT 9543 MT= 69 (n,n') Level Cross Section 95-Am-241
 -35.66 To 9999. %



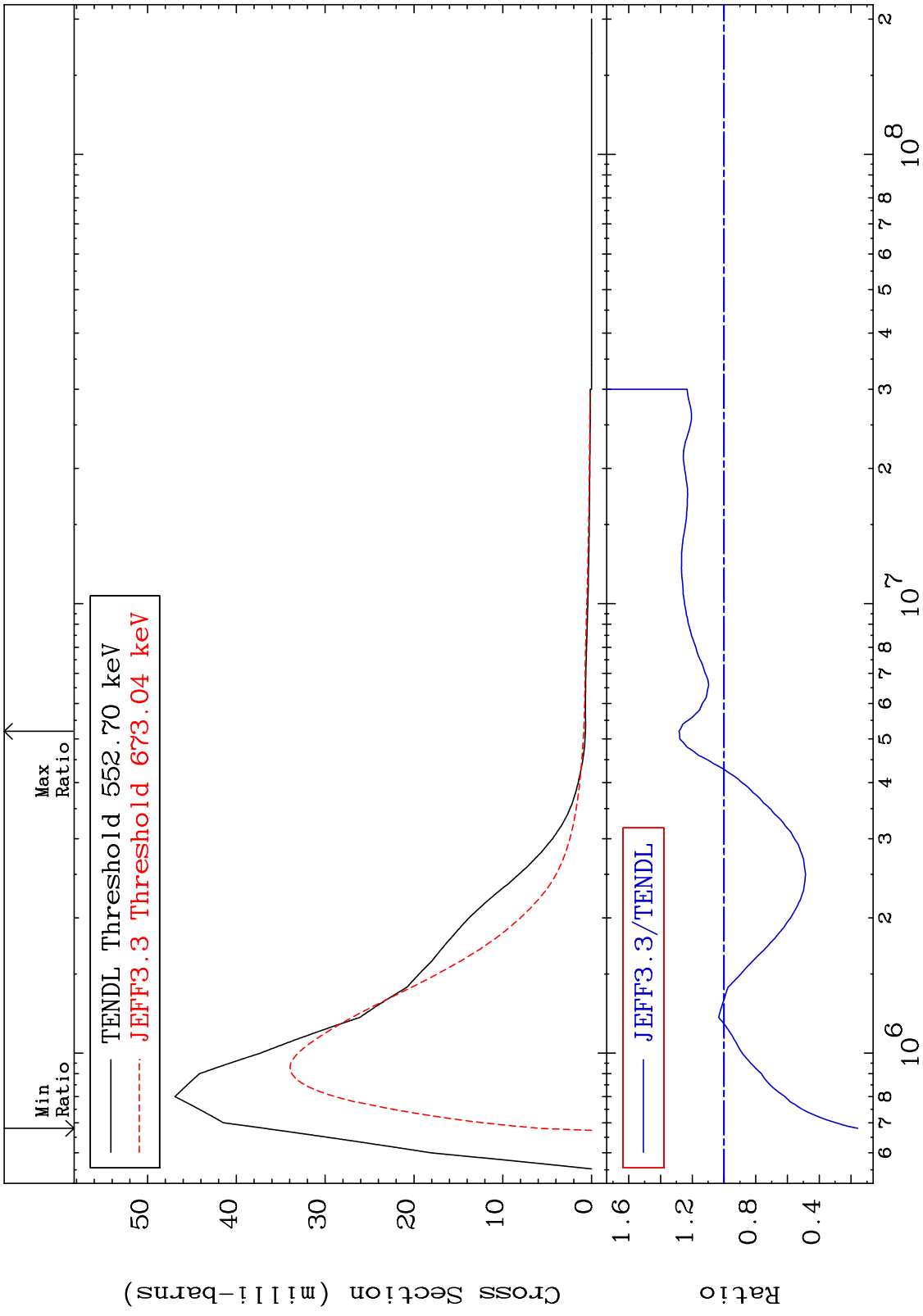
MAT 9543 MT= 70 (n,n') Level Cross Section 95-Am-241
 -99.52 To 9999. %



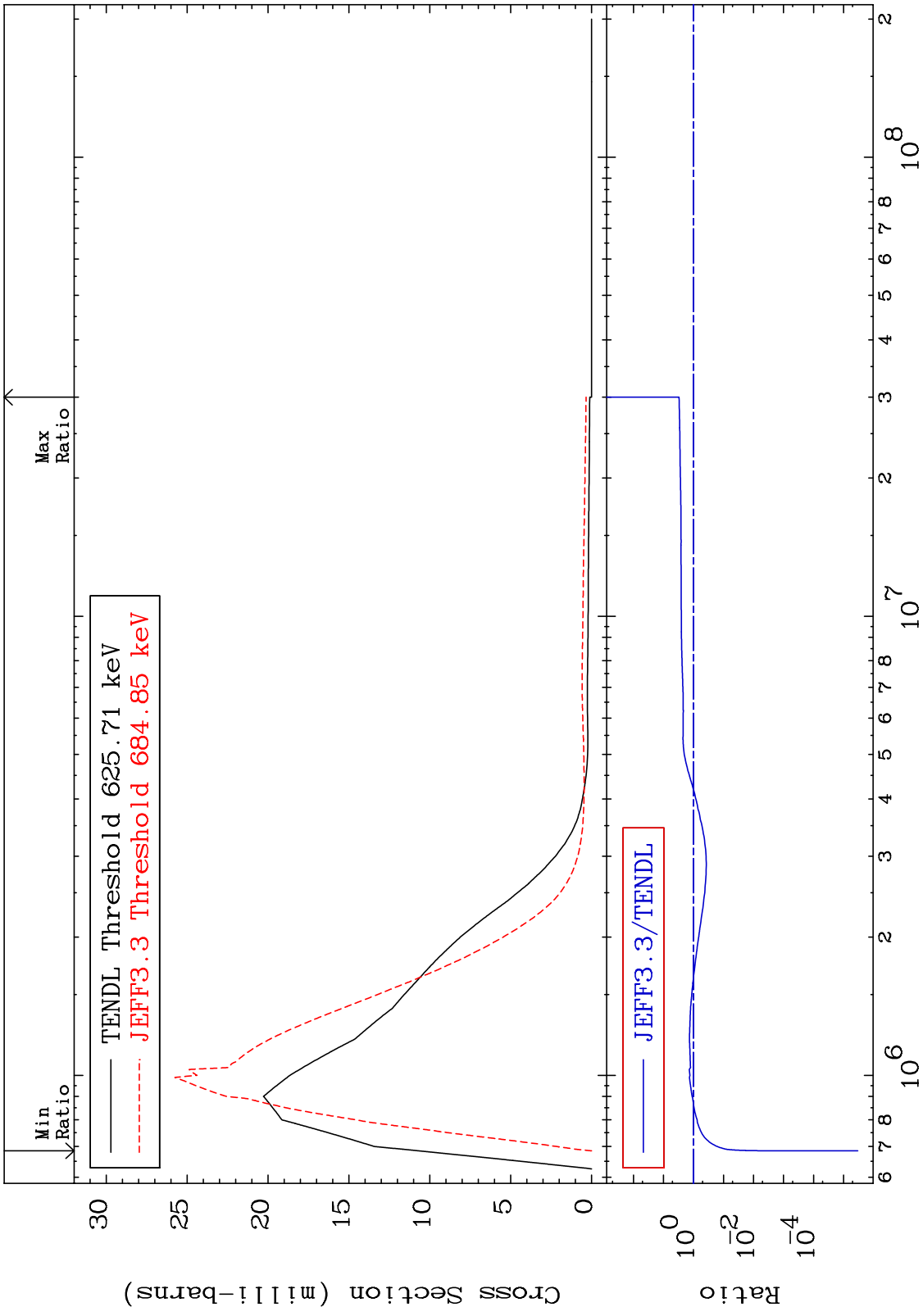
MAT 9543 MT= 71 (n,n') Level Cross Section 95-Am-241
 -83.53 To 18.79 %



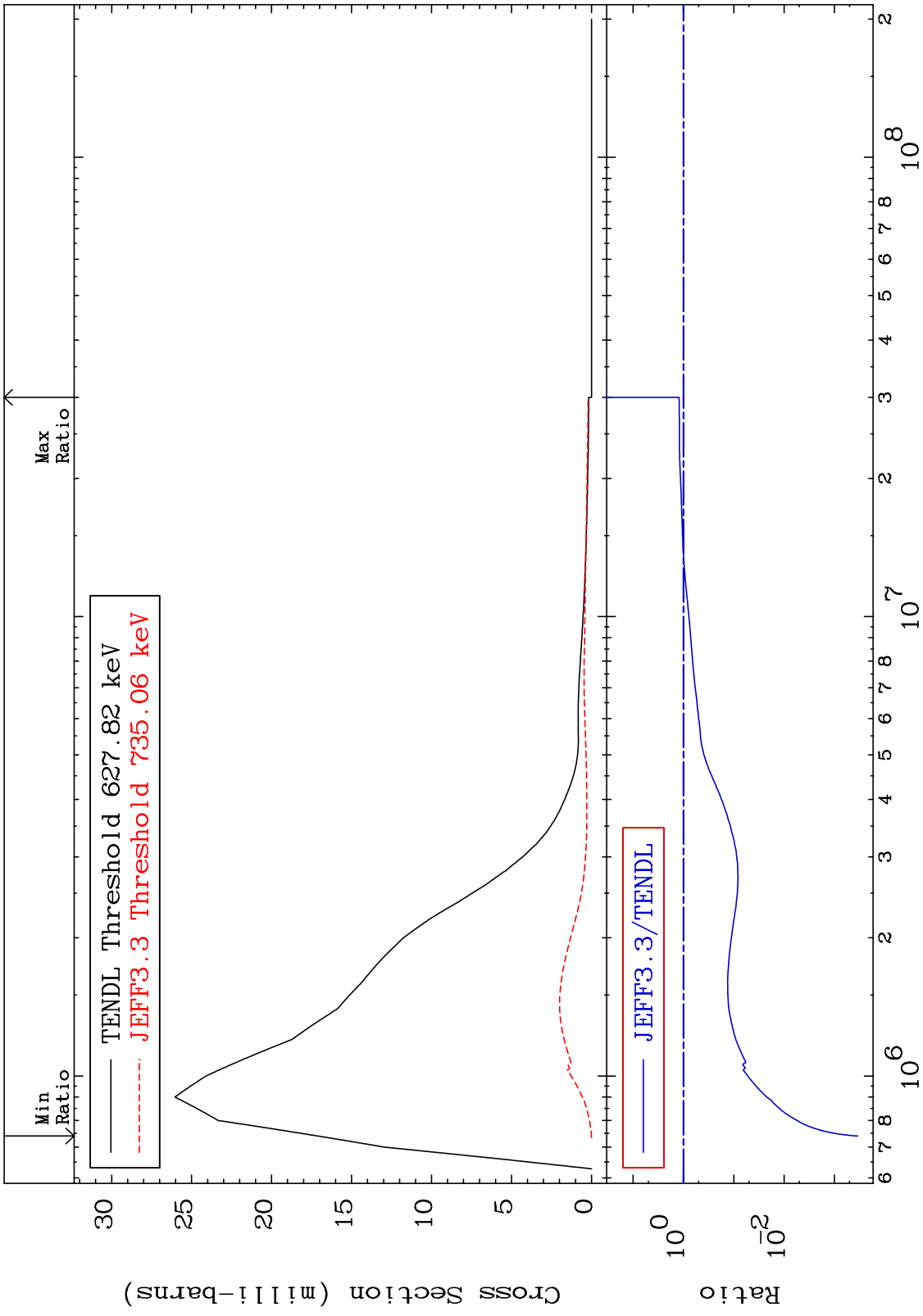
MAT 9543 MT= 72 (n,n') Level Cross Section 95-Am-241
 -84.31 To 28.32 %



MAT 9543 MT= 73 (n,n') Level Cross Section 95-Am-241
 -100.0 To 202.4 %



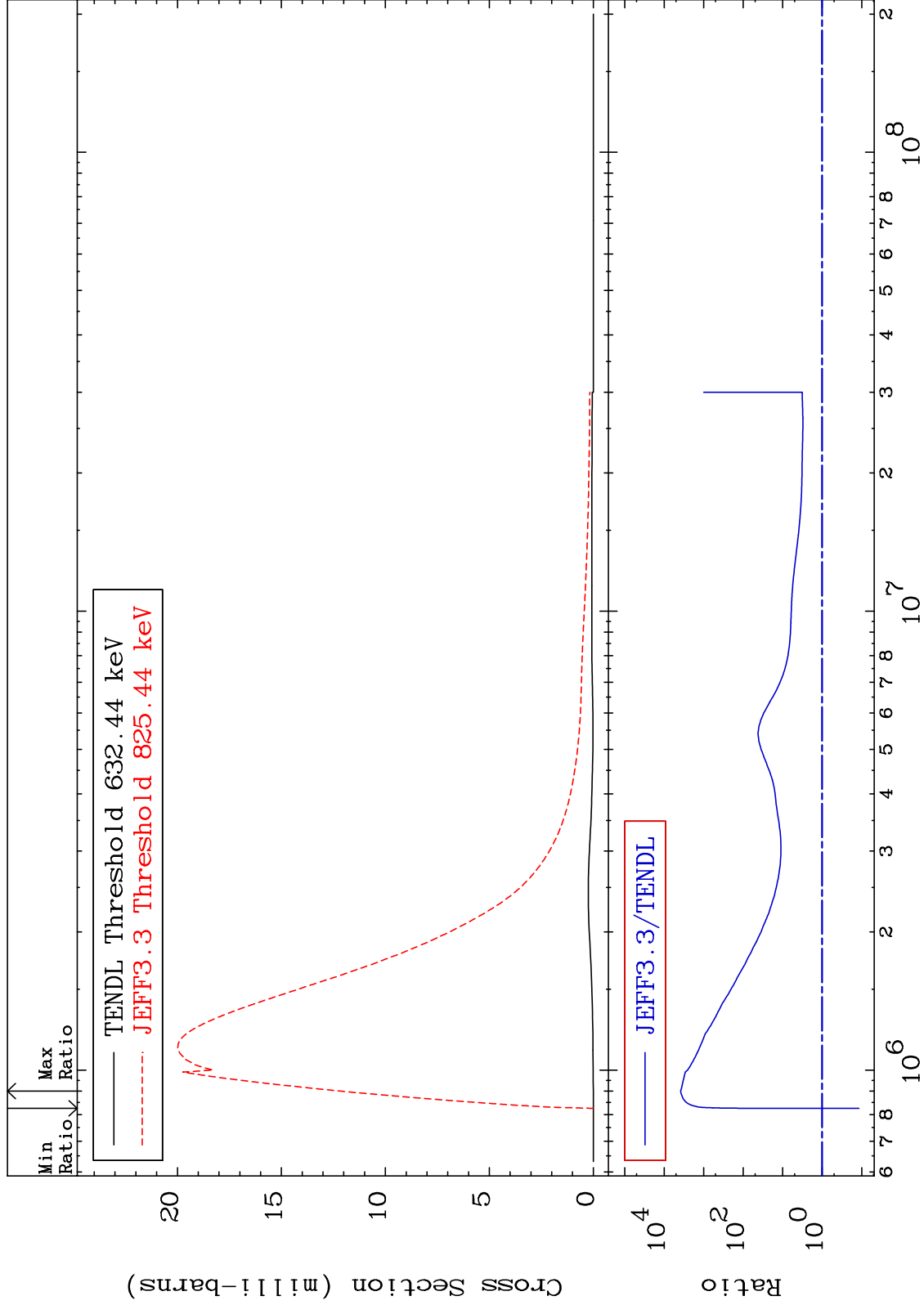
MAT 9543 MT= 74 (n,n') Level Cross Section 95-Am-241
 -99.97 To 22.37 %



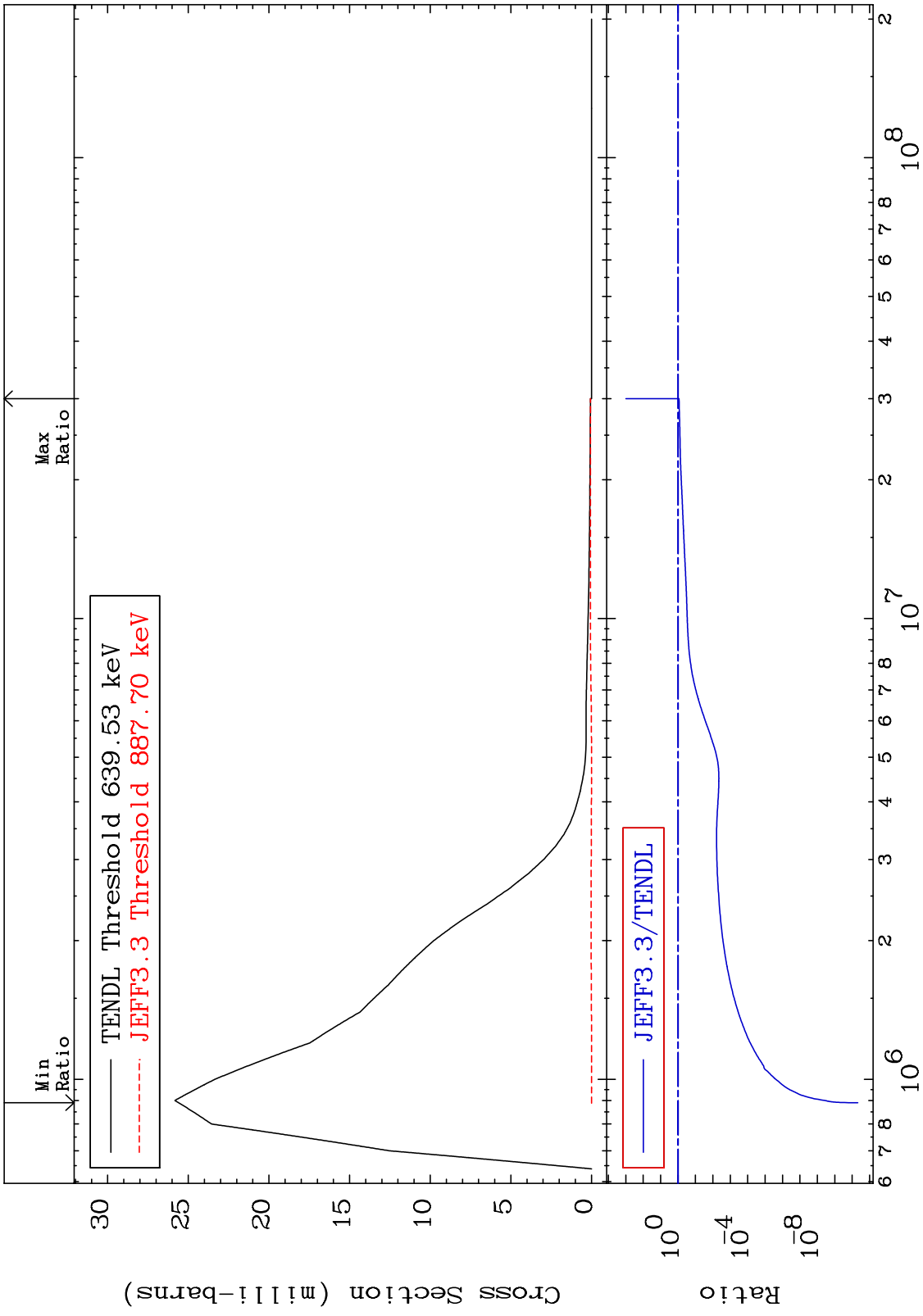
MAT 9543

MT= 75 (n,n') Level
Cross Section

95-Am-241
-88.29 To 9999. %



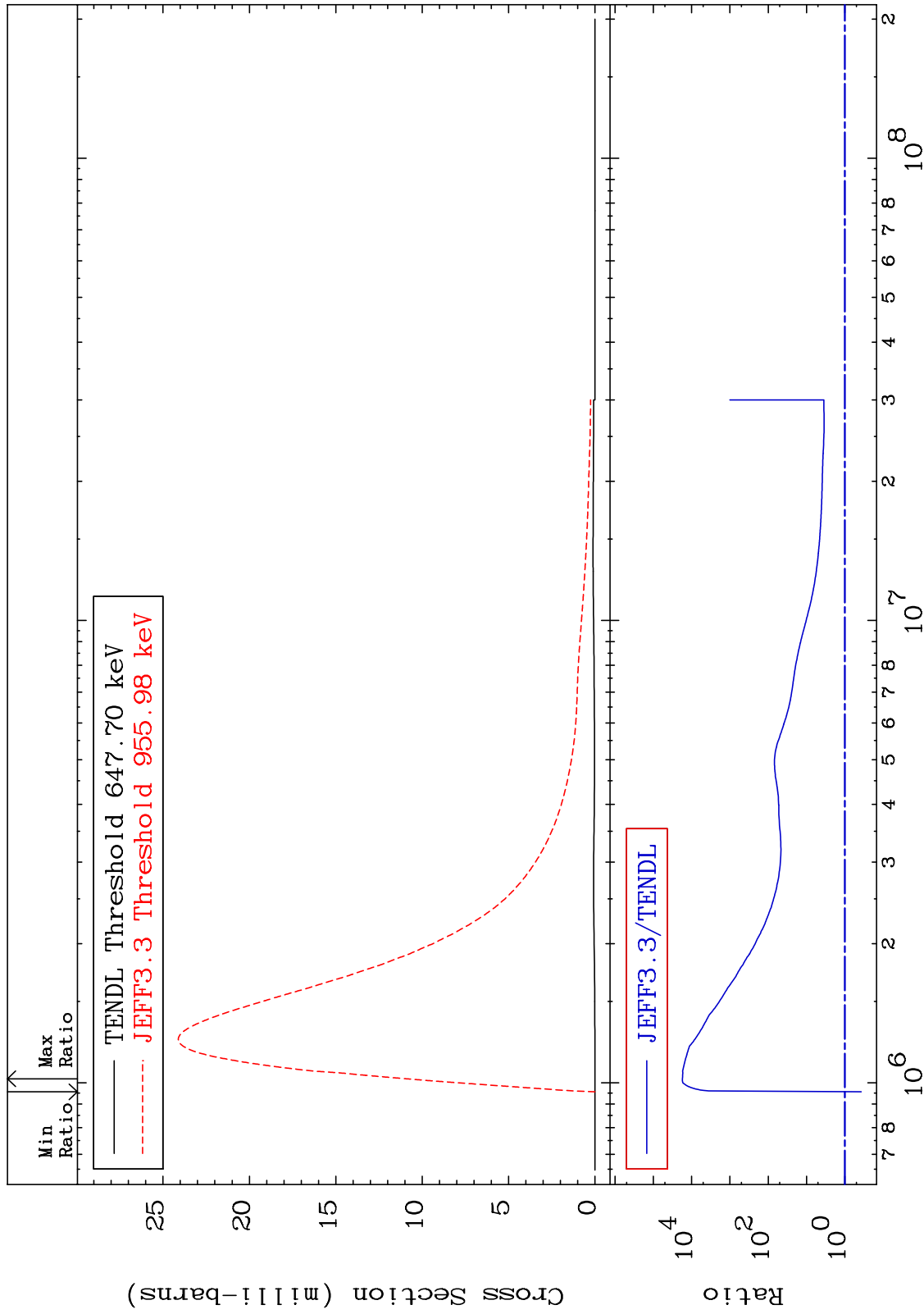
MAT 9543 MT= 76 (n,n') Level Cross Section 95-Am-241 -100.0 To -12.25%



MAT 9543

MT= 77 (n,n') Level
Cross Section

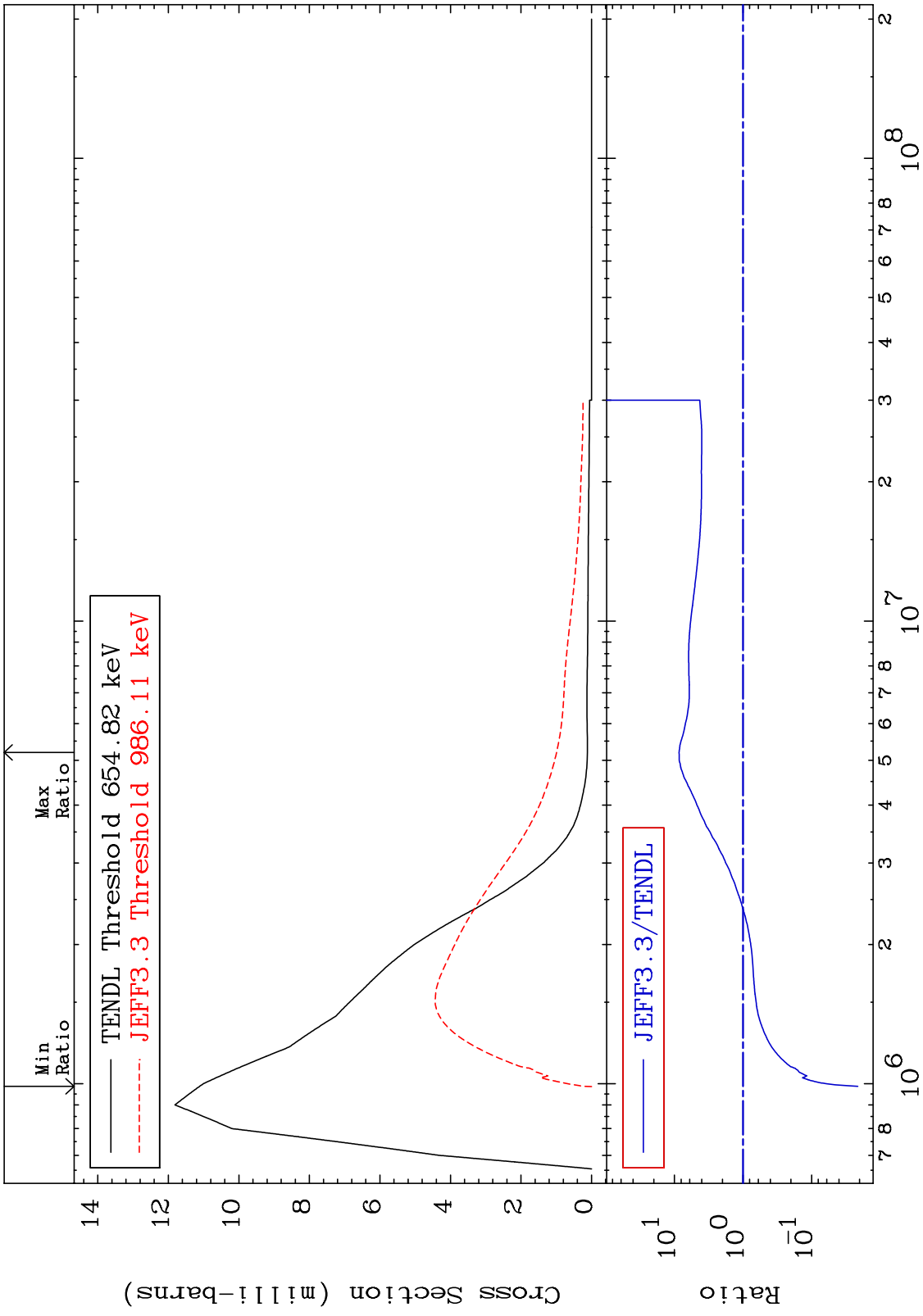
95-Am-241
-62.87 To 9999. %



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95-Am-241

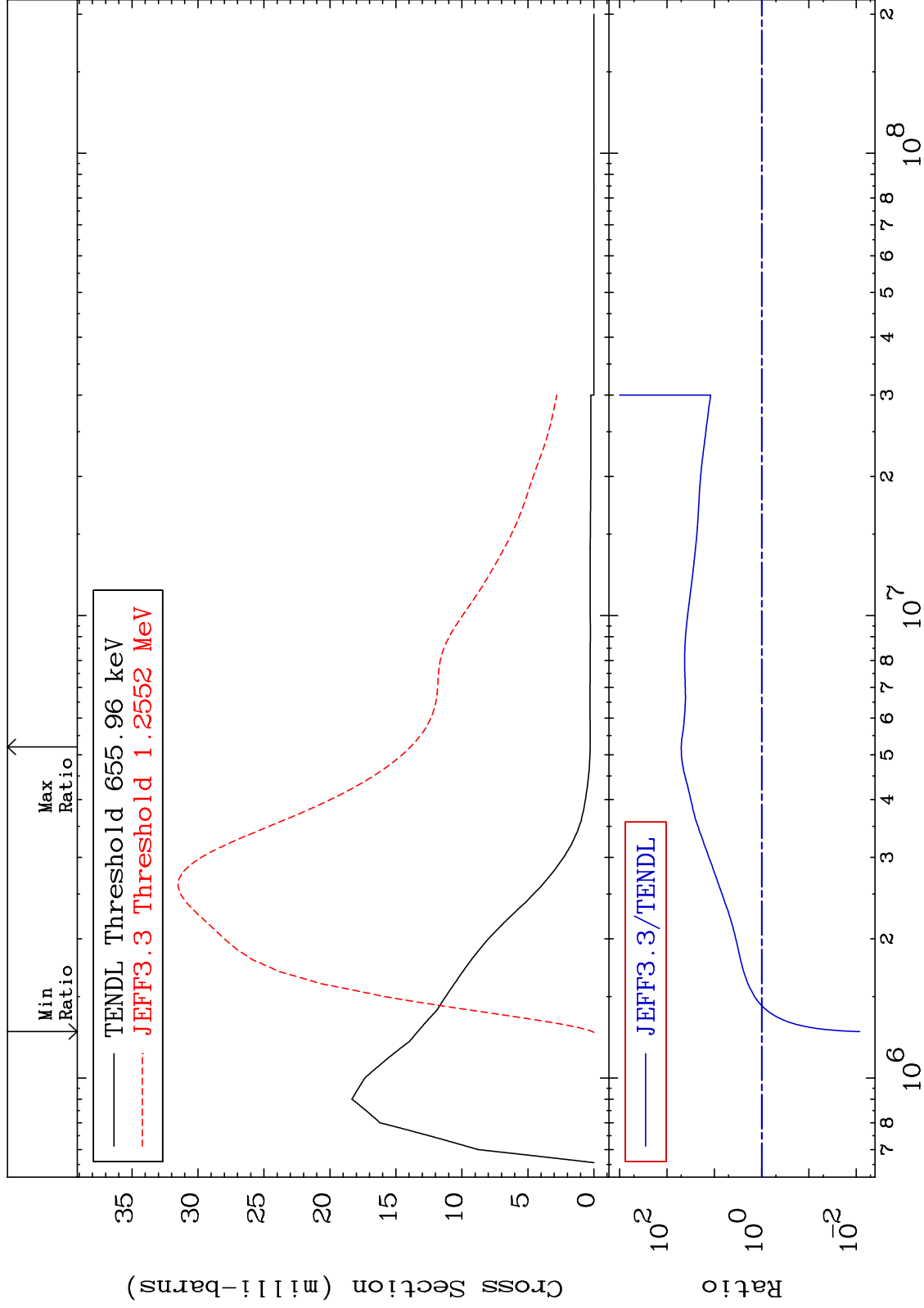
MAT 9543 MT= 78 (n,n') Level Cross Section 95-Am-241
 -97.88 To 756.9 %



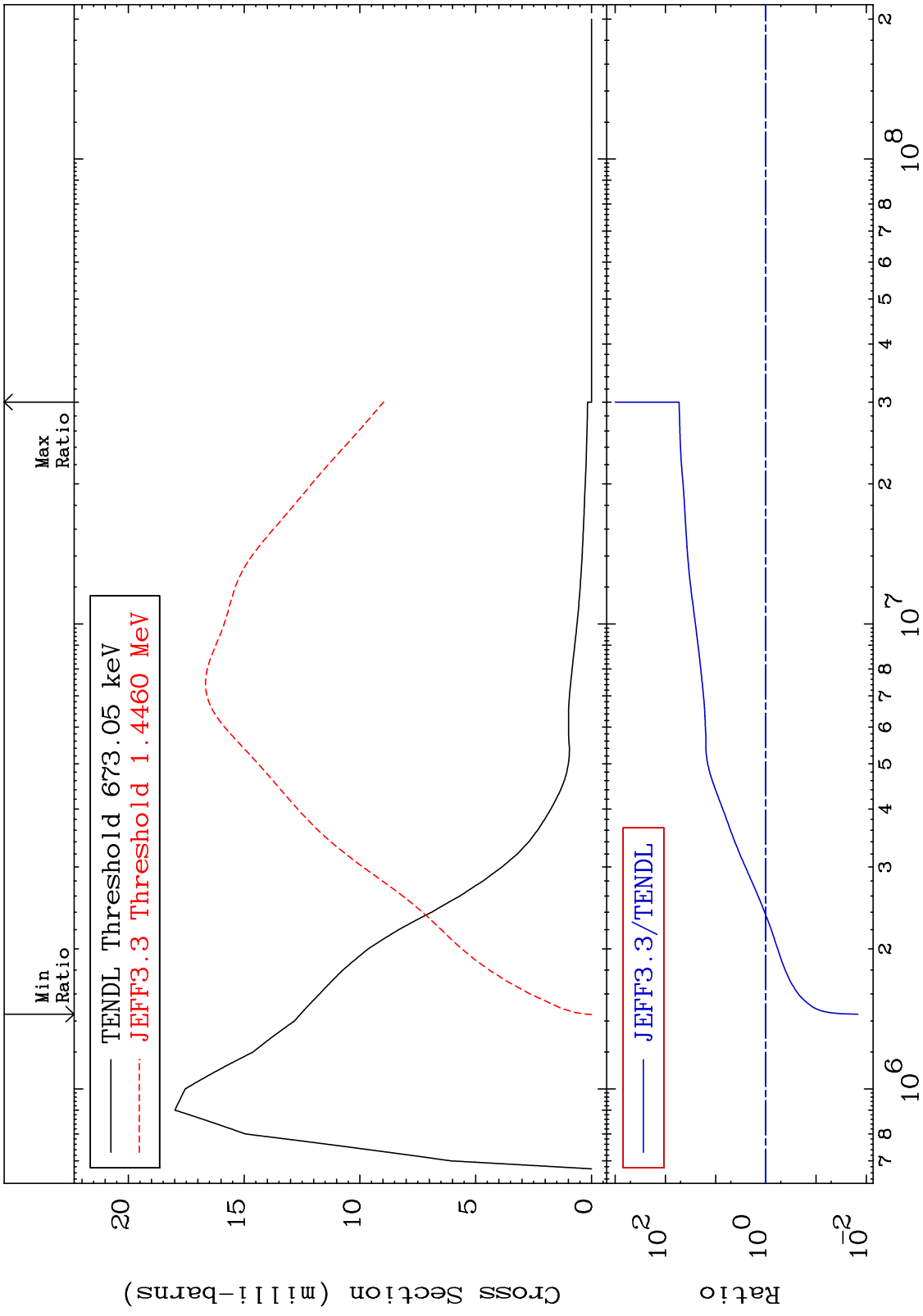
MAT 9543

MT= 79 (n,n') Level
Cross Section

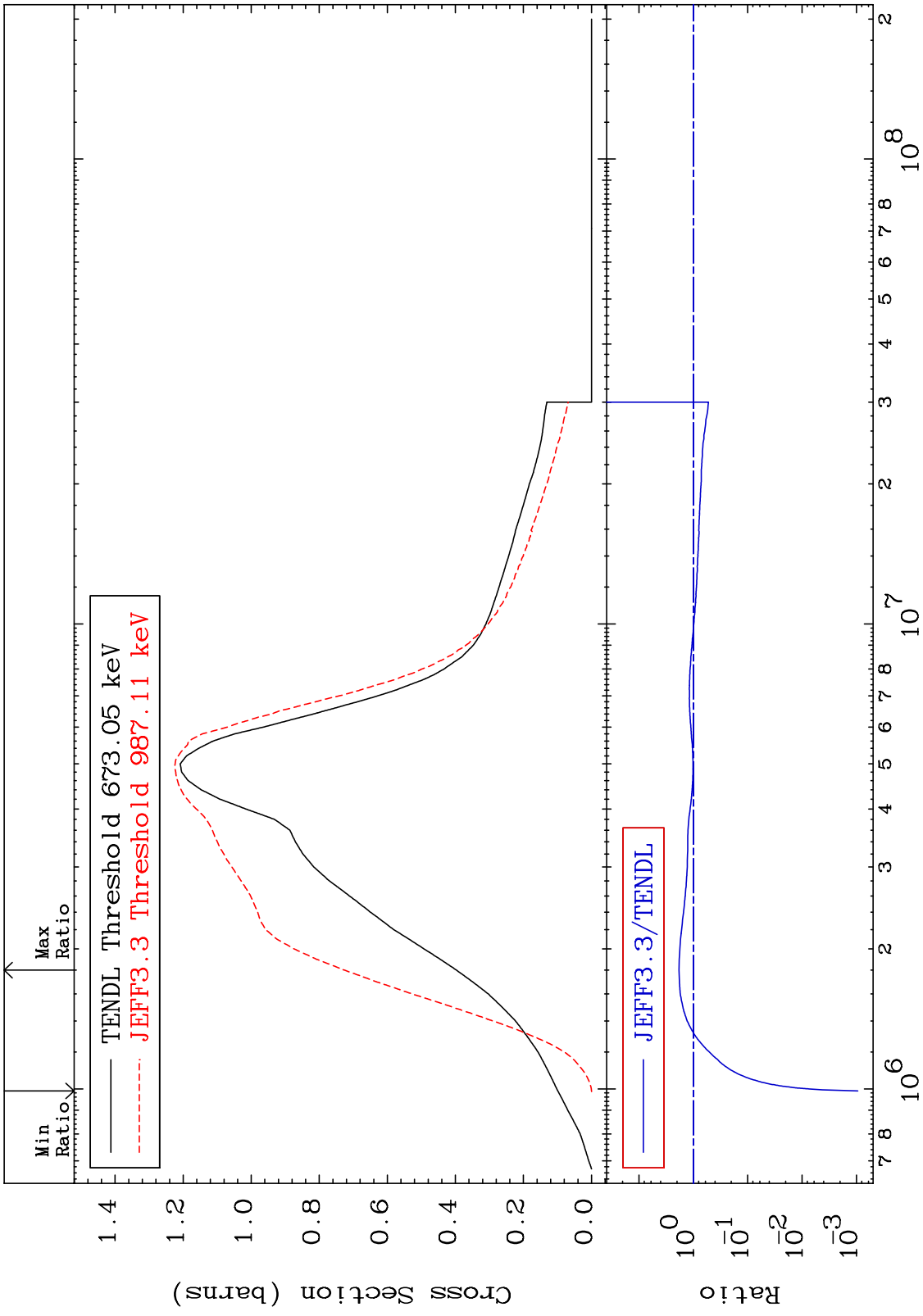
95-Am-241
-99.16 To 4897. %



MAT 9543 MT= 80 (n,n') Level Cross Section 95-Am-241 -98.53 To 5257. %



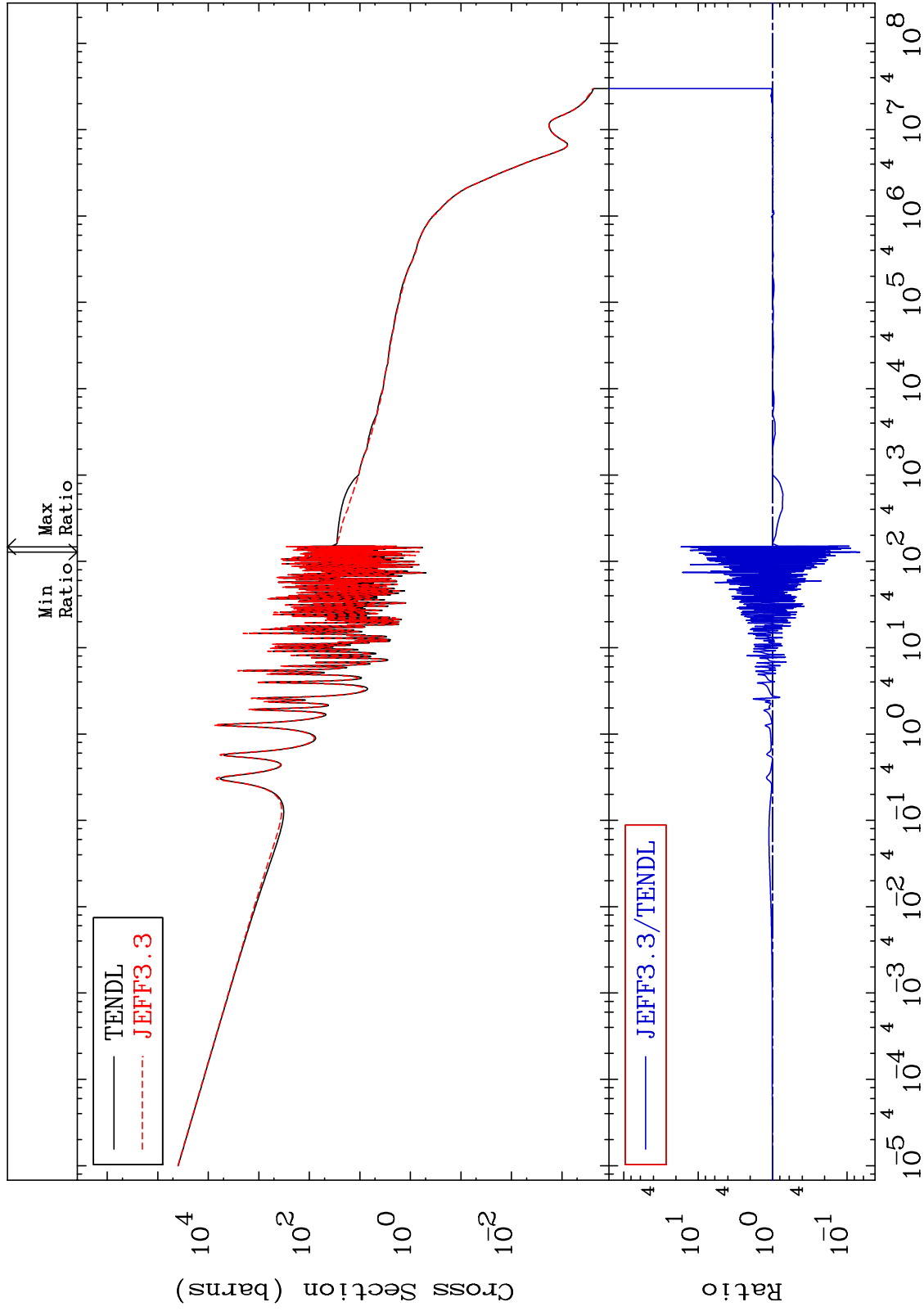
MAT 9543 (n, n') Continuum Cross Section 95-Am-241 -99.91 To 82.89 %



MAT 9543

(n, γ) Cross Section

95-Am-241
-93.26 To 1593. %



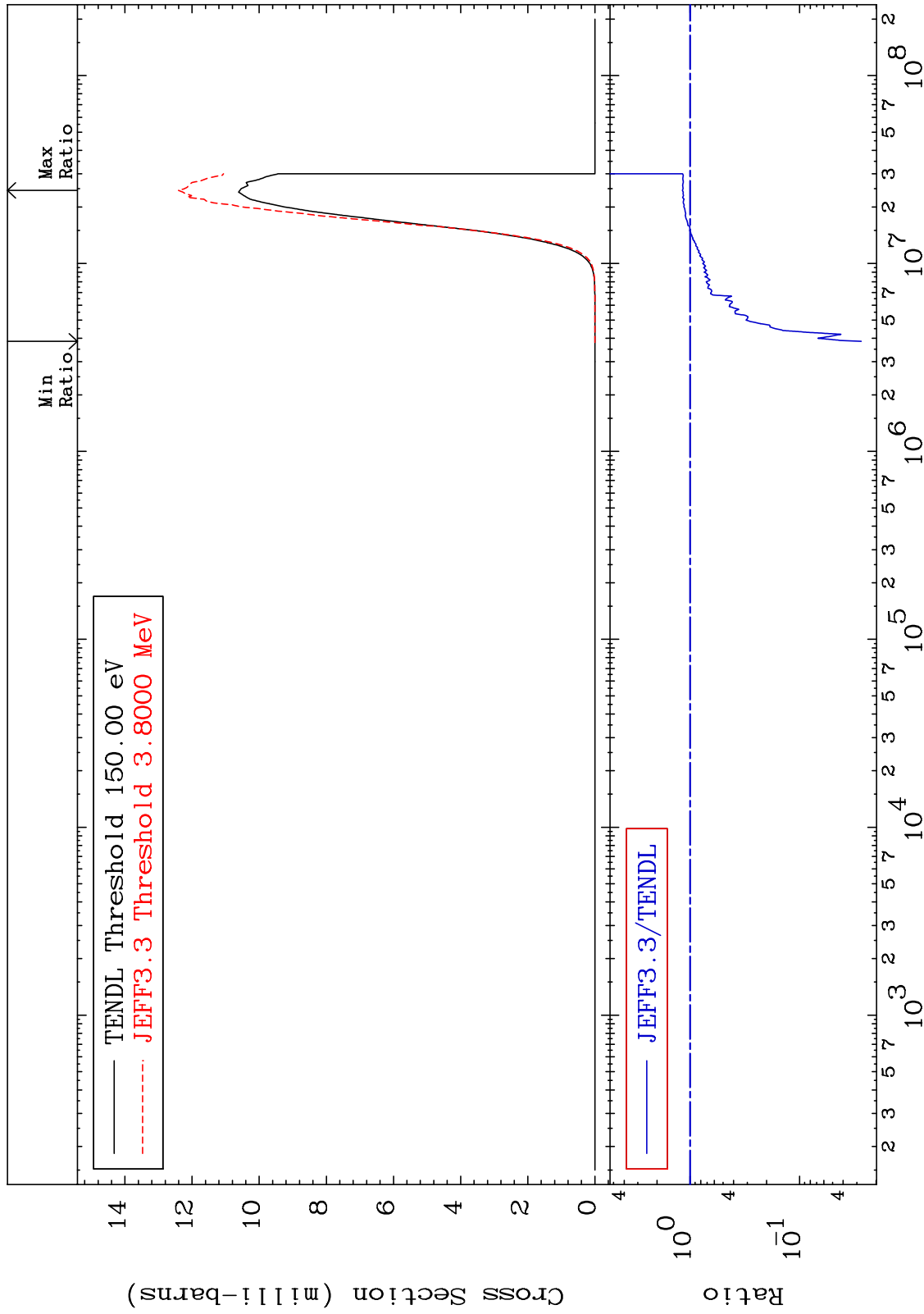
MAT 9543

(n,p)

95-Am-241

Cross Section

-97.27 To 17.36 %

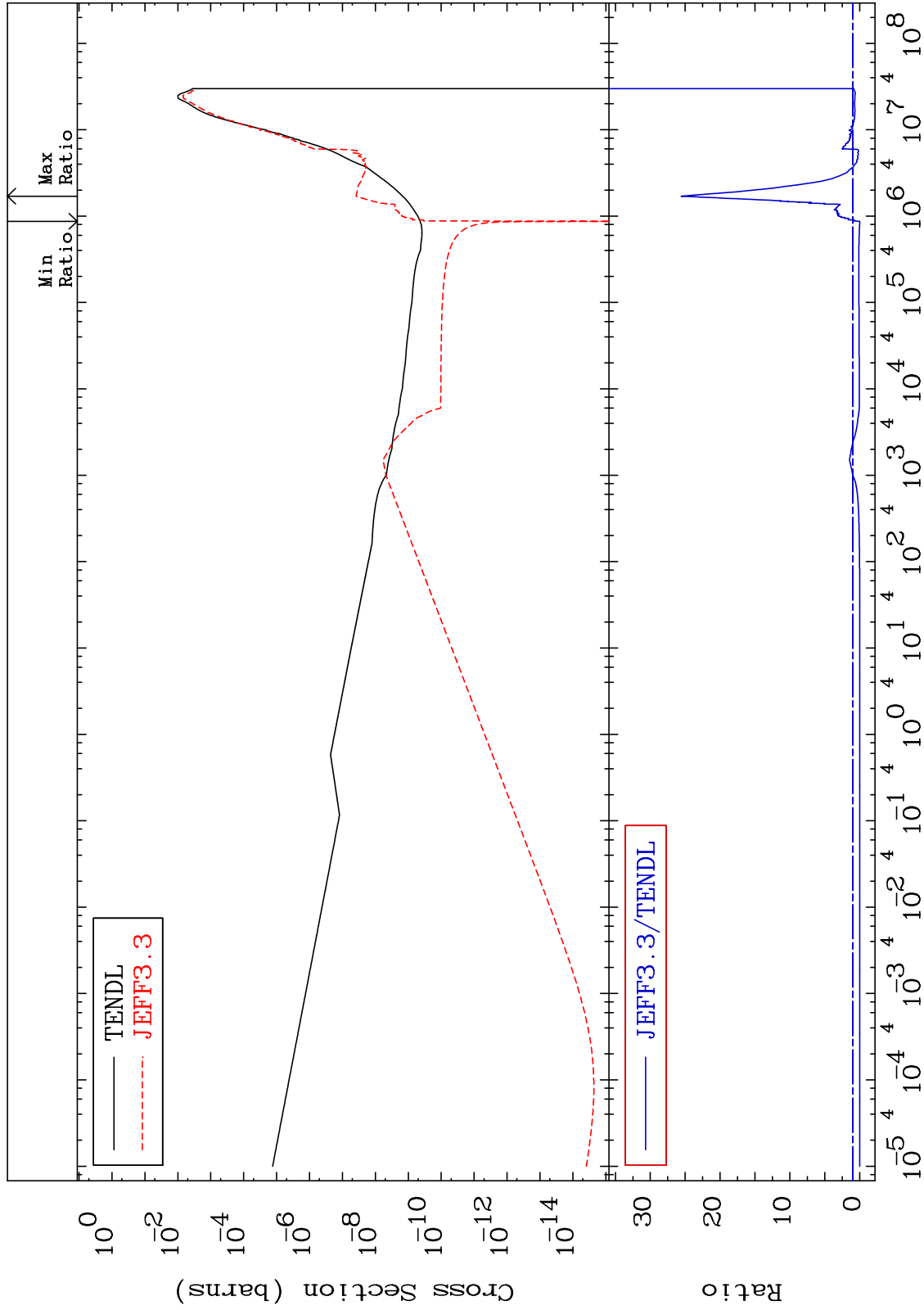


MAT 9543

(n, α)

Cross Section

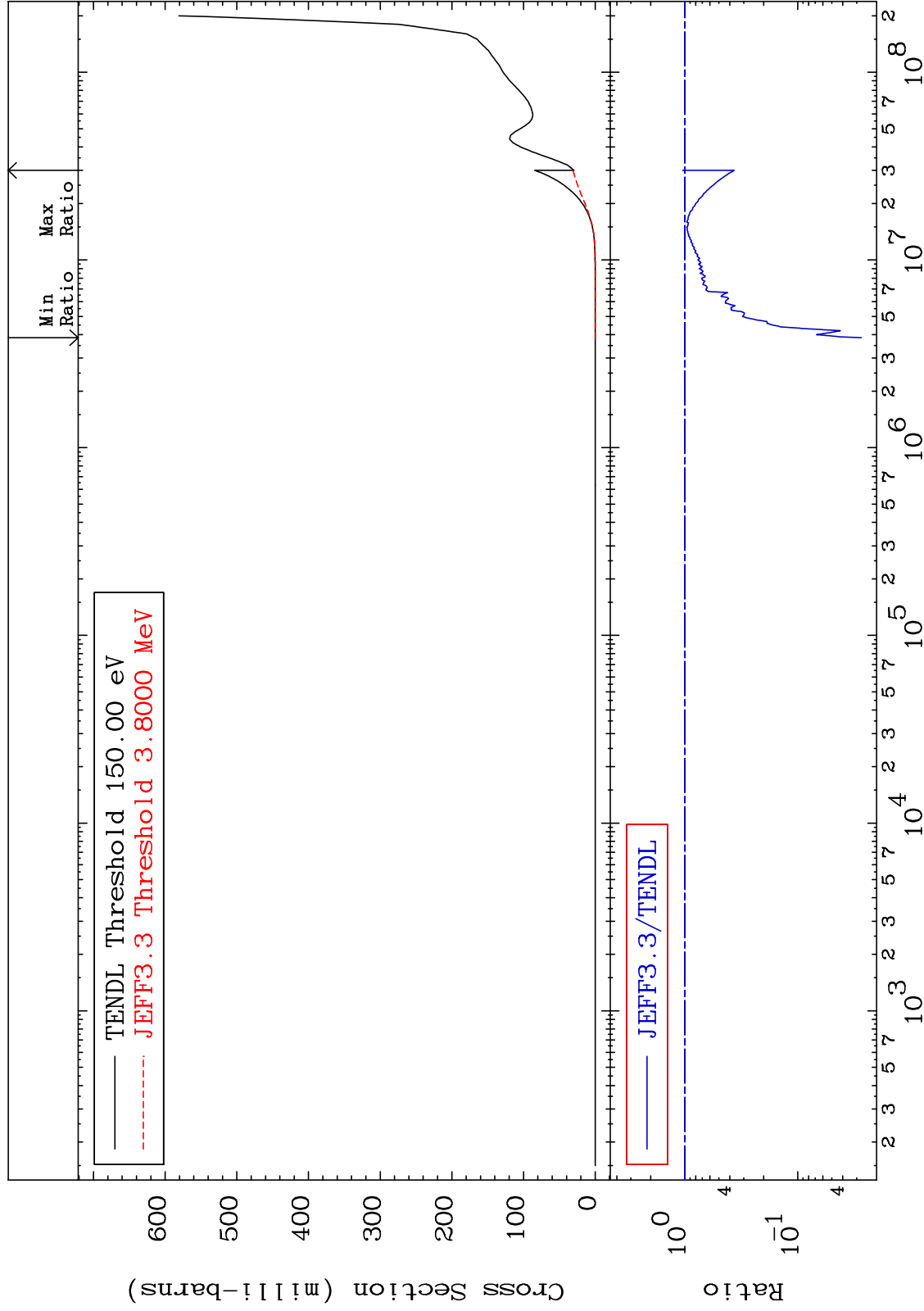
95-Am-241
-100.0 To 2457. %



MAT 9543

Hydrogen Production Cross Section

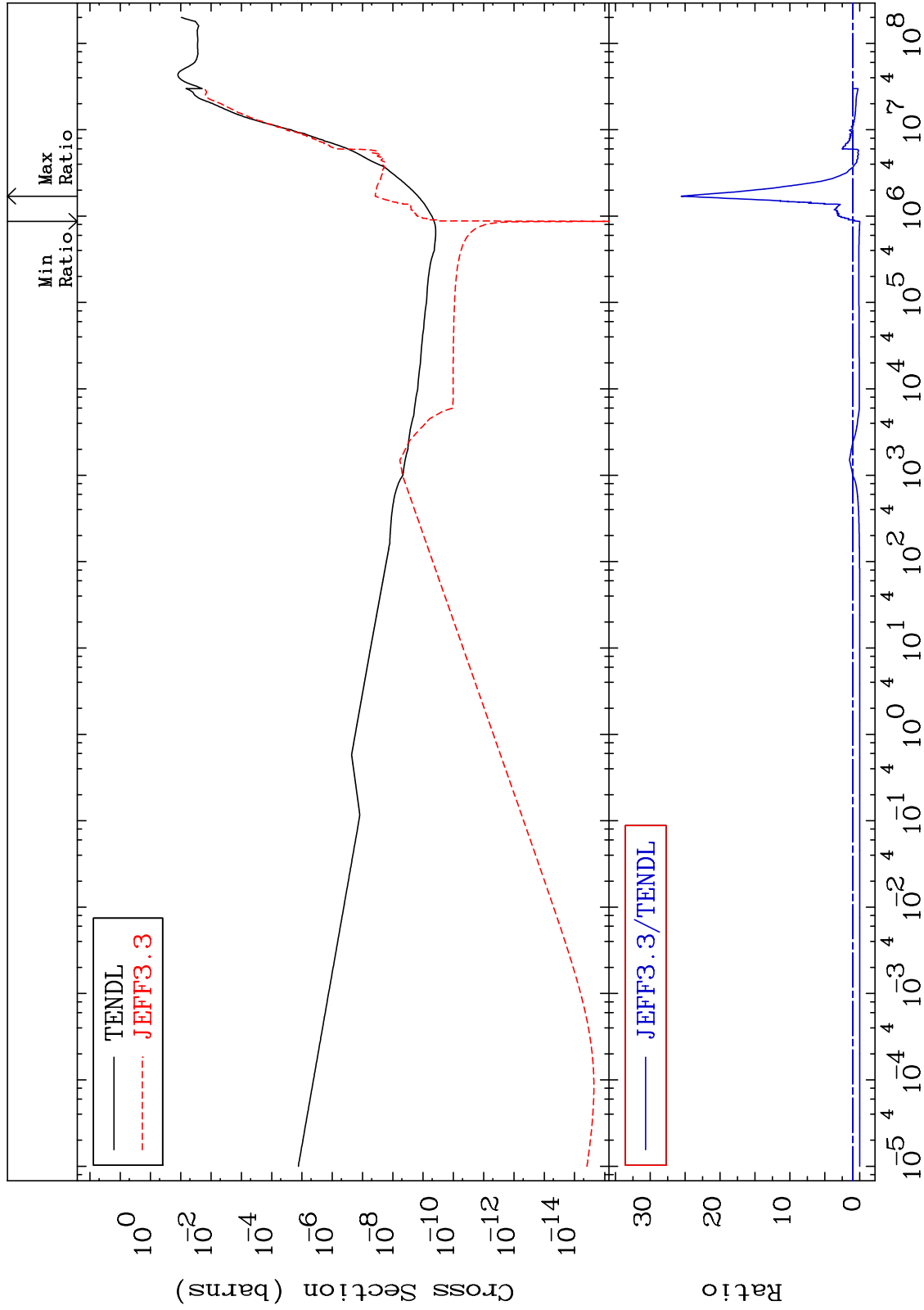
95-Am-241
-97.27 To 4.396 %



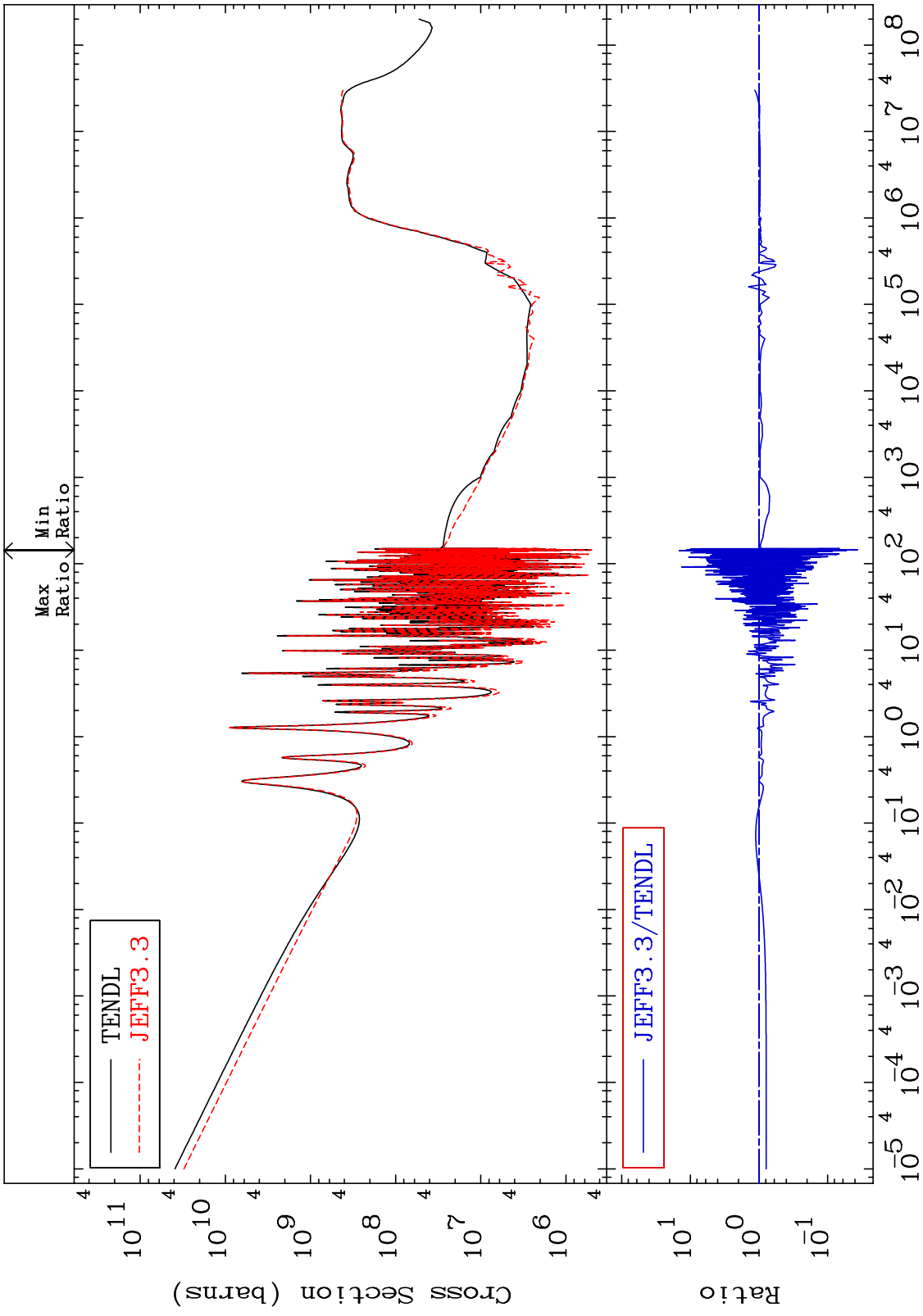
MAT 9543

He-4 Production
Cross Section

95-Am-241
-100.0 To 2457. %



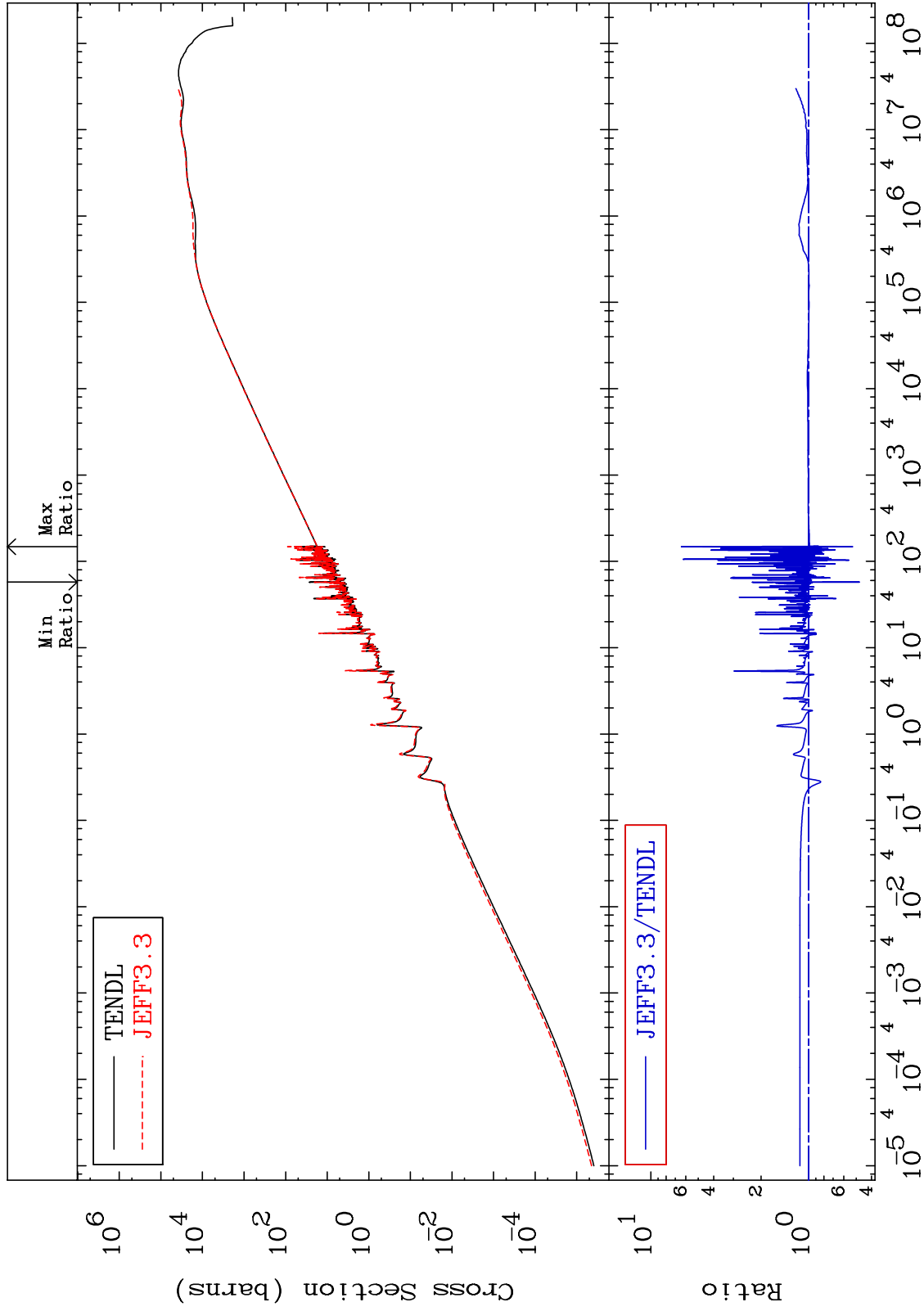
MAT 9543 Kerma total (eV-barns) 95-Am-241
 Cross Section -96.36 To 1359. %



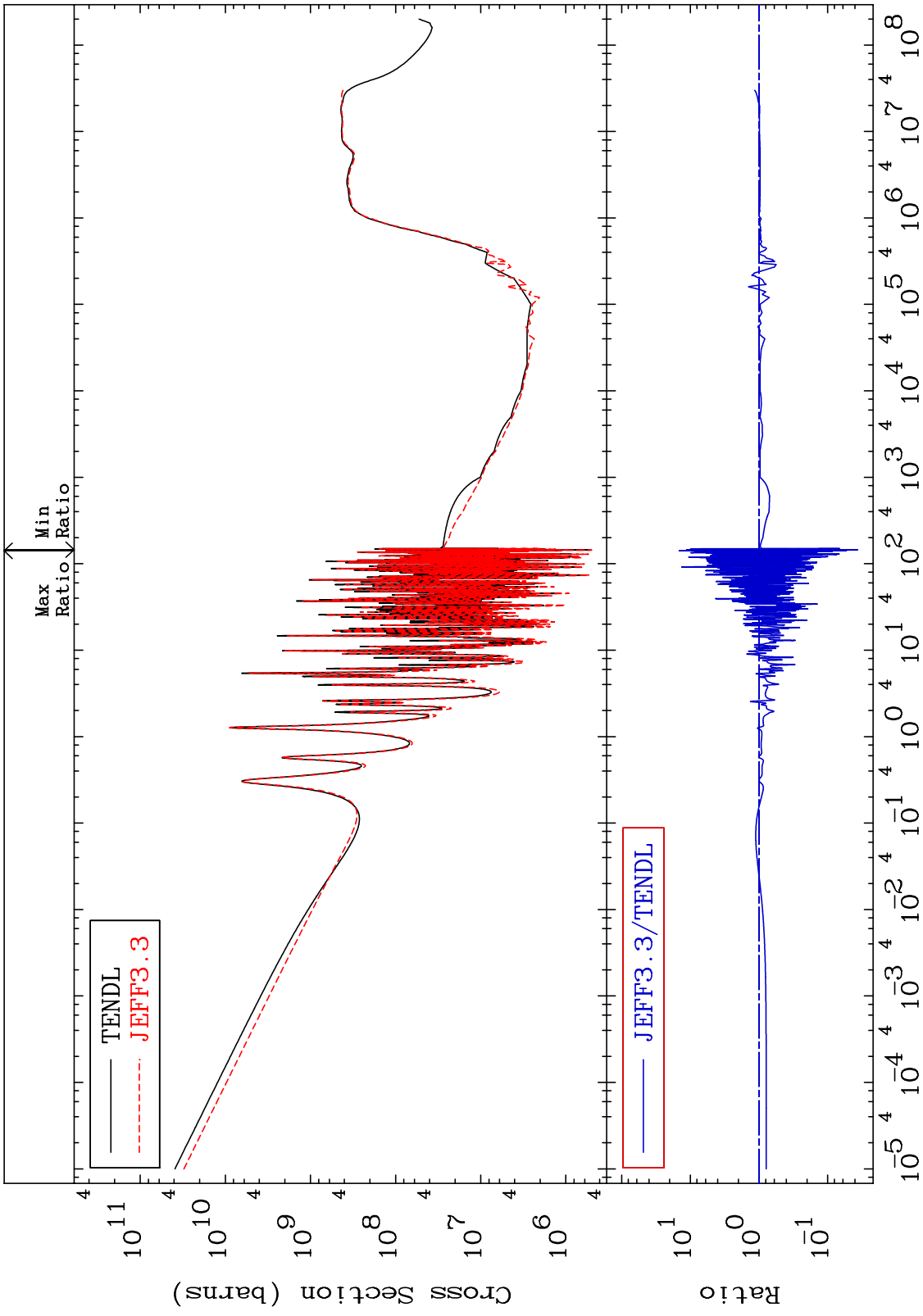
MAT 9543

Kerma elastic
Cross Section

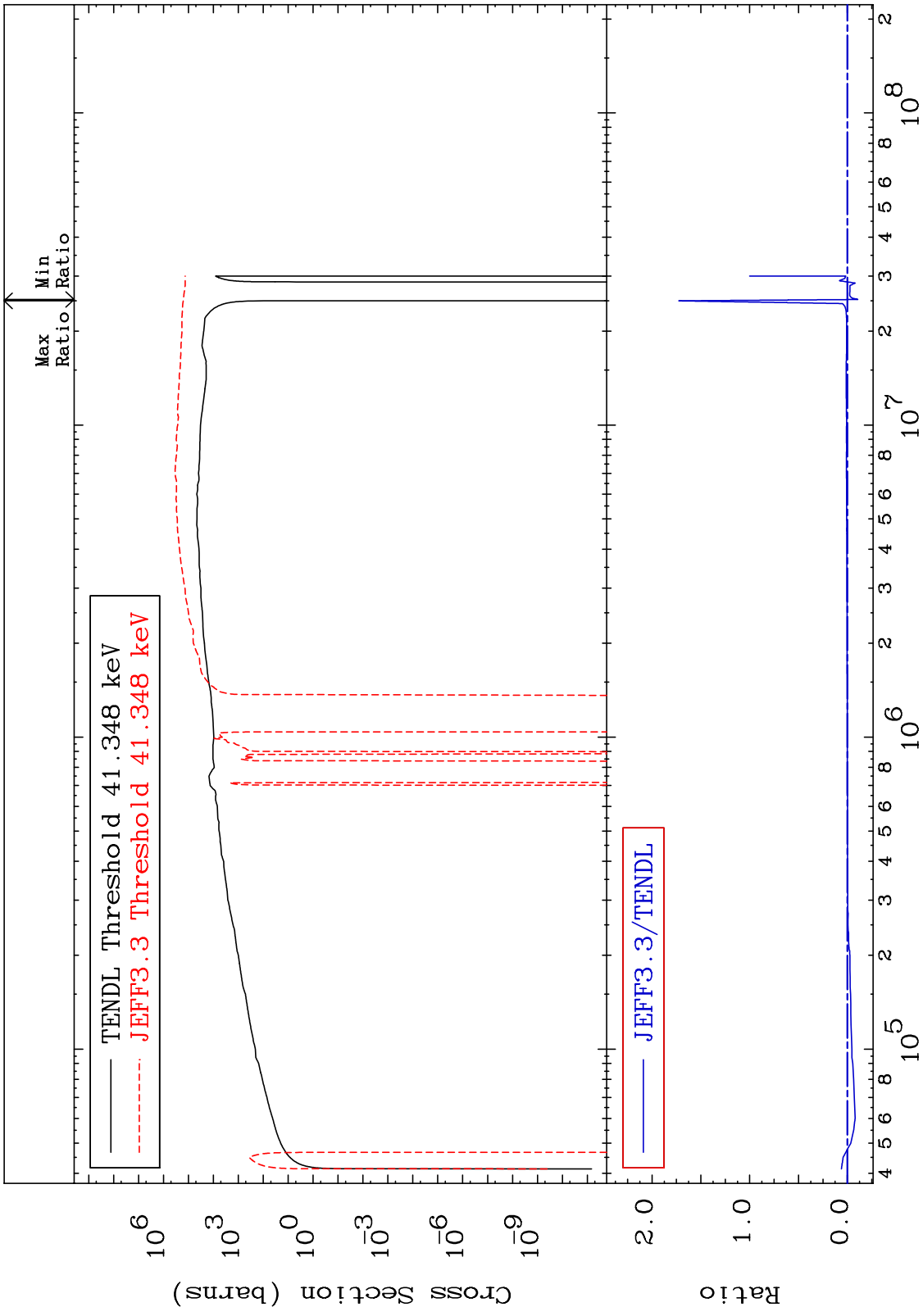
95-Am-241
-52.53 To 541.1 %



MAT 9543 Kerma non-elastic (all but mt2) 95-Am-241
 -96.36 To 1359. %
 Cross Section



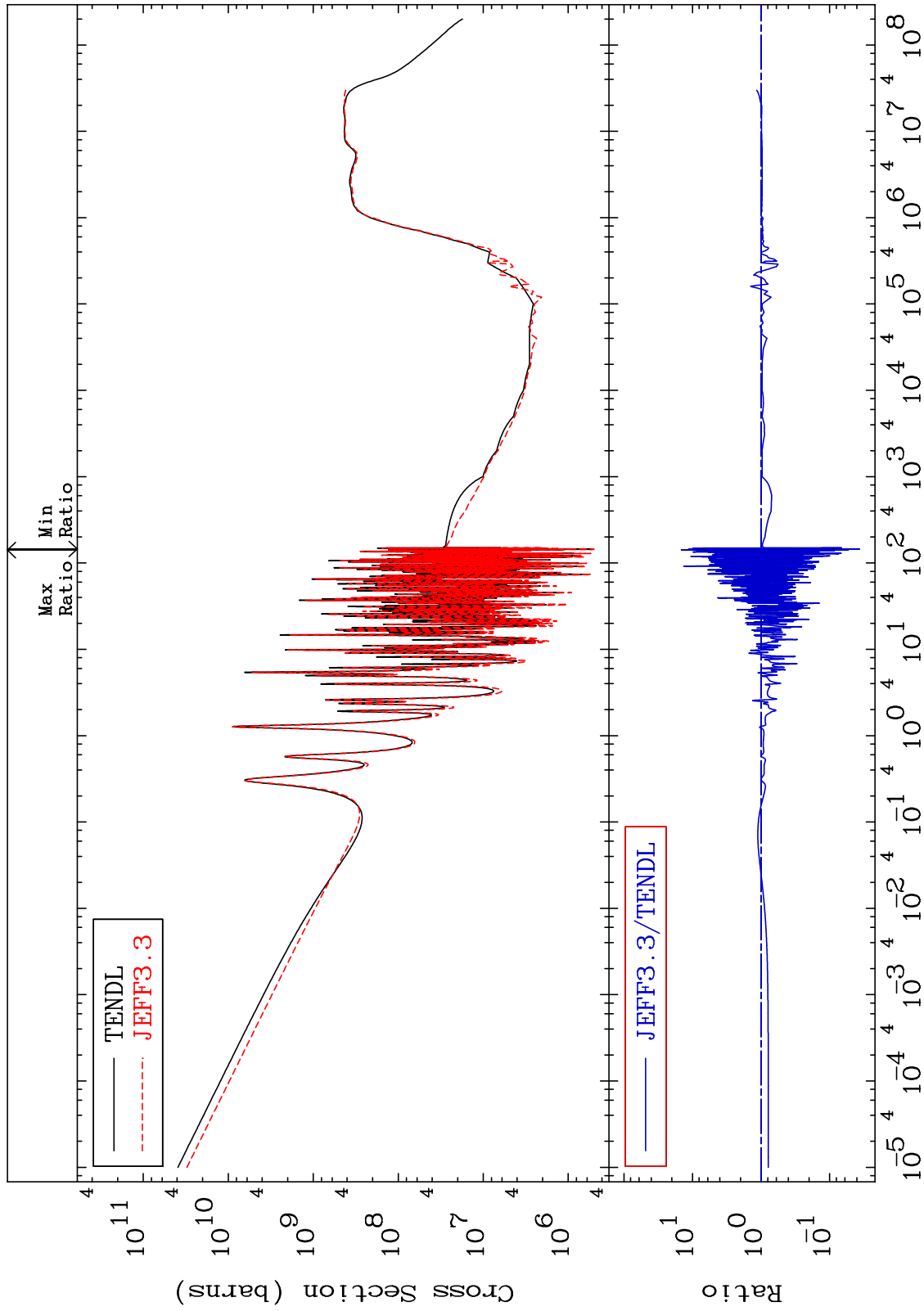
MAT 9543 Kerma inelastic (mt51-91) 95-Am-241
 Cross Section -9999. To 9999. %



MAT 9543

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

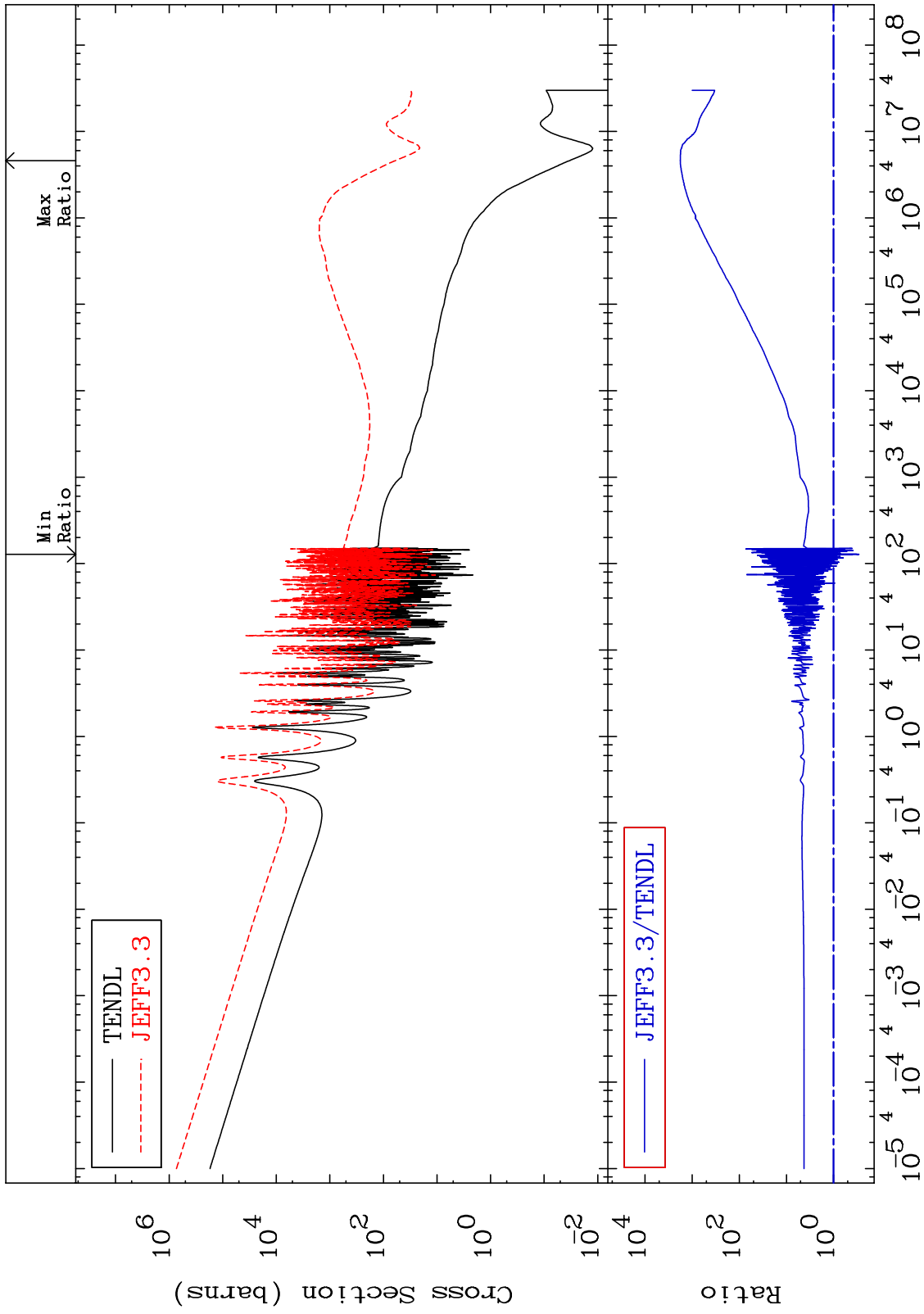
95-Am-241
-96.36 To 1359. %



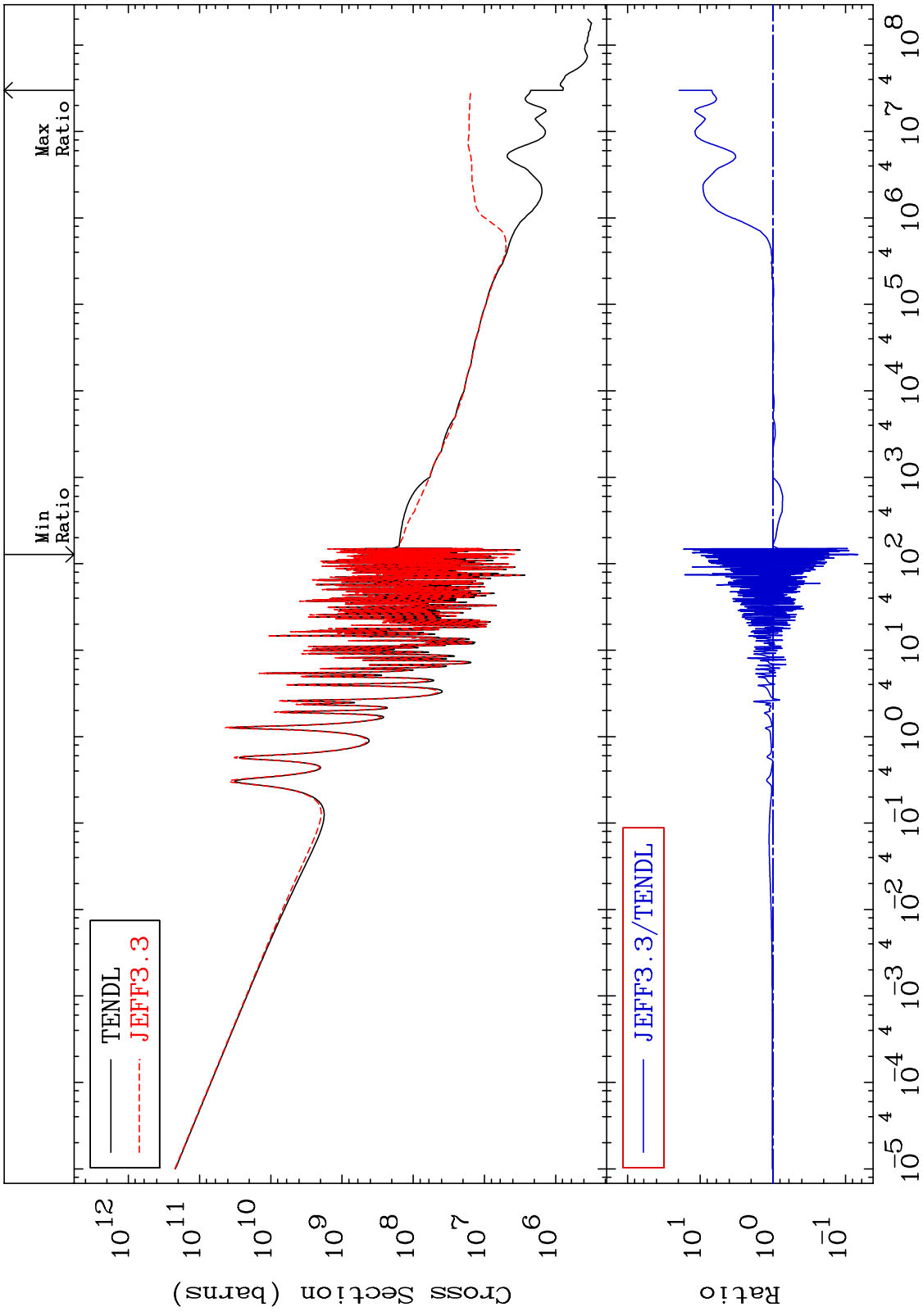
MAT 9543

Kerma capture (mt102)
Cross Section

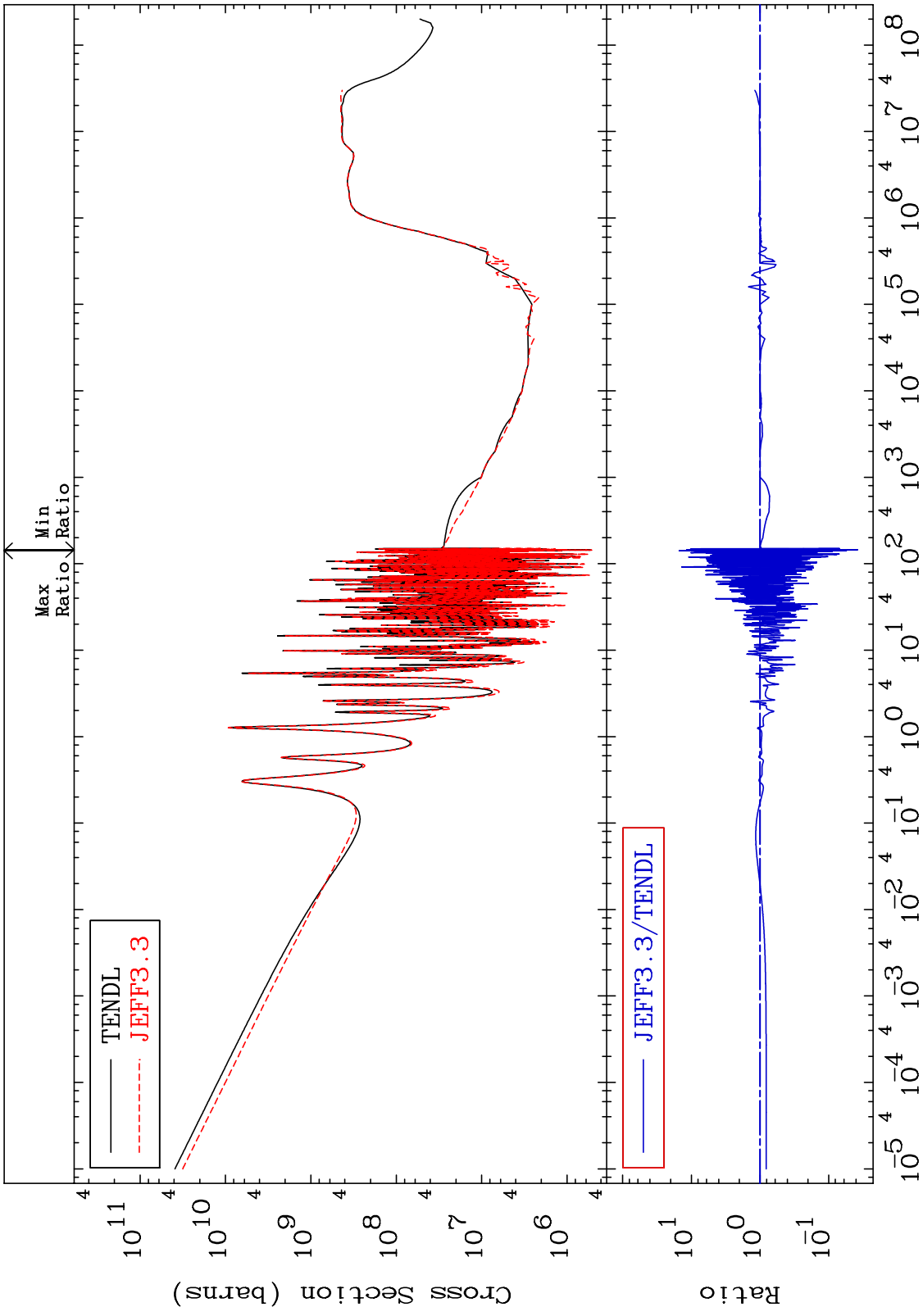
95-Am-241
-71.00 To 9999. %



MAT 9543 Total photon (eV-barns) Cross Section 95-Am-241 -93.23 To 1857. %



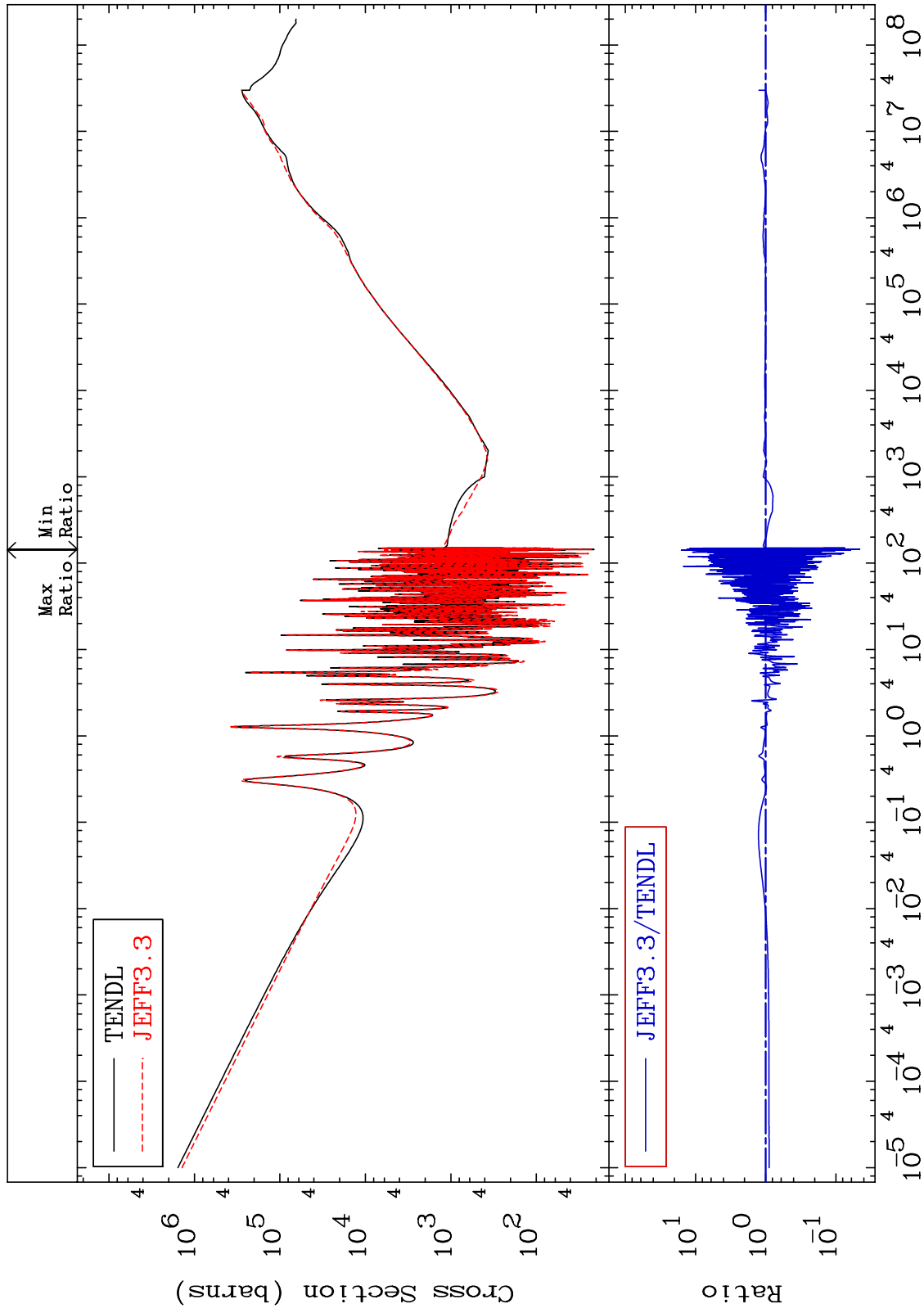
MAT 9543 Total kinematic kerma (high limit) 95-Am-241
 Cross Section -96.23 To 1410. %



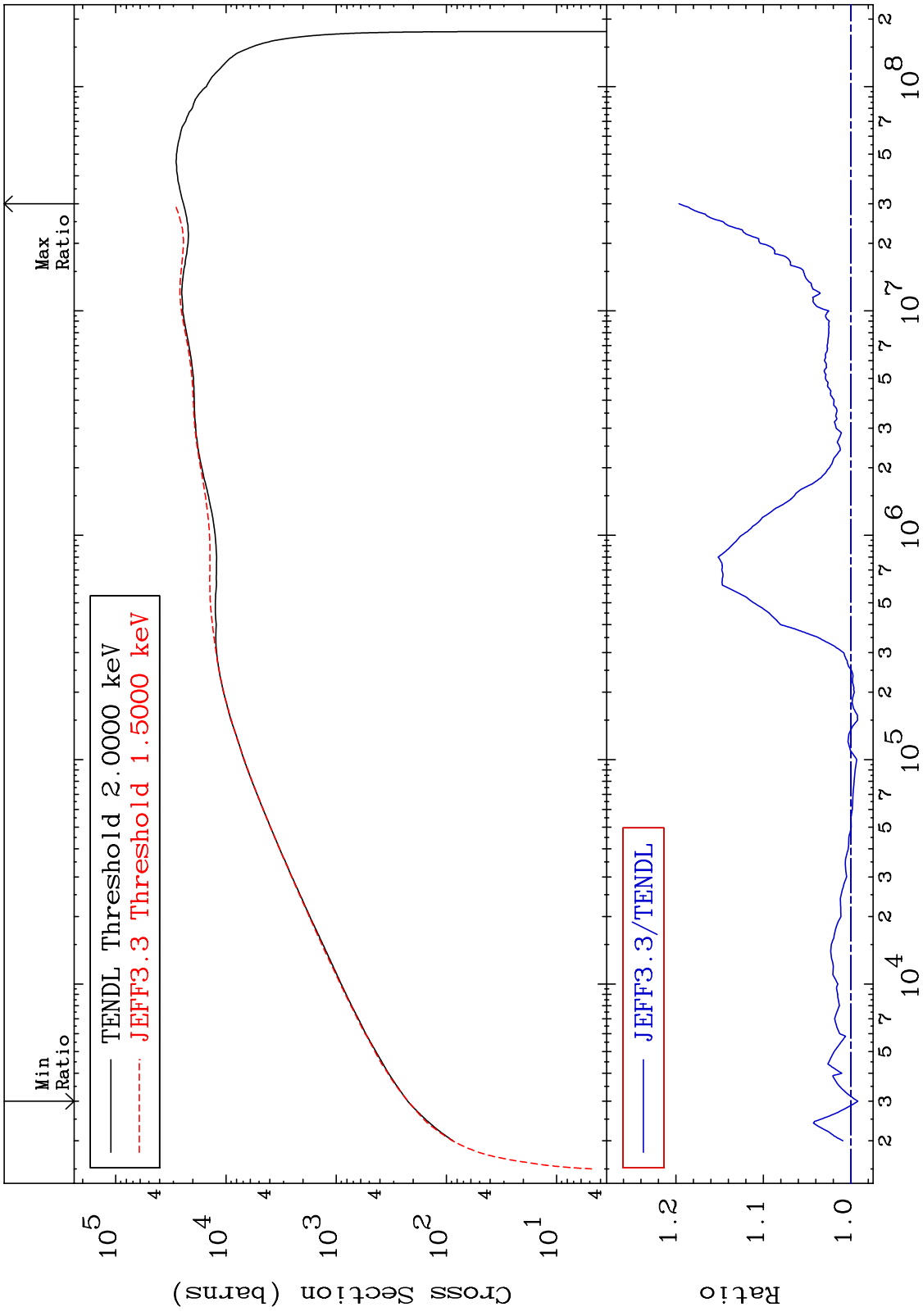
MAT 9543

Dpa total (eV-barns)
Cross Section

95-Am-241
-95.44 To 1497. %



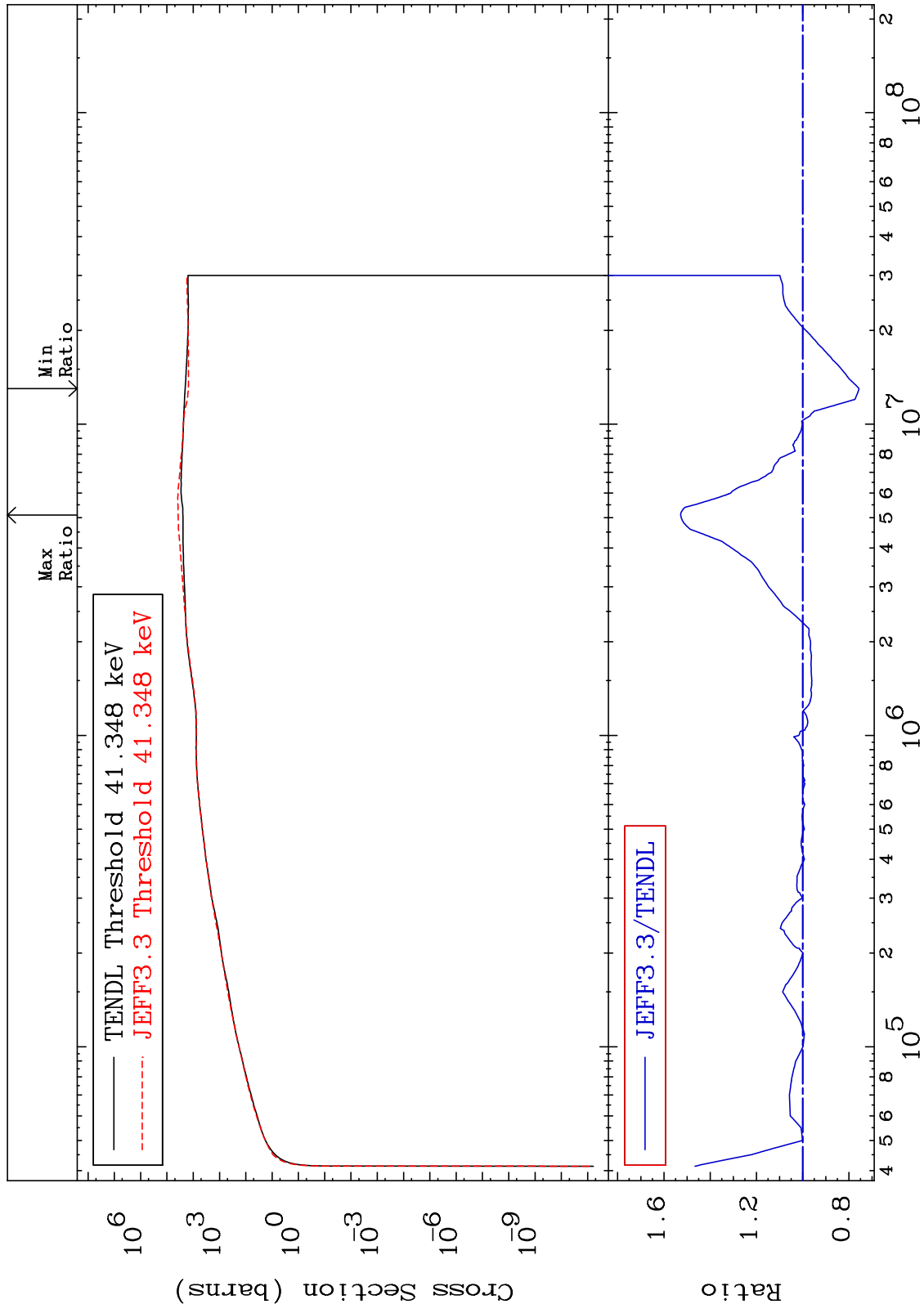
MAT 9543 95-Am-241
 Dpa elastic (mt2) -0.796 To 19.64 %
 Cross Section



MAT 9543

Dpa inelastic (mt51-91)
Cross Section

95-Am-241
-24.34 To 52.77 %



60

Incident Energy (eV)

95-Am-241

MAT 9543 Dpa disappearance (mt102 -120) 95-Am-241
 Cross Section -69.75 To 8468. %

