

Program Complot
(Version 2021-1)

by

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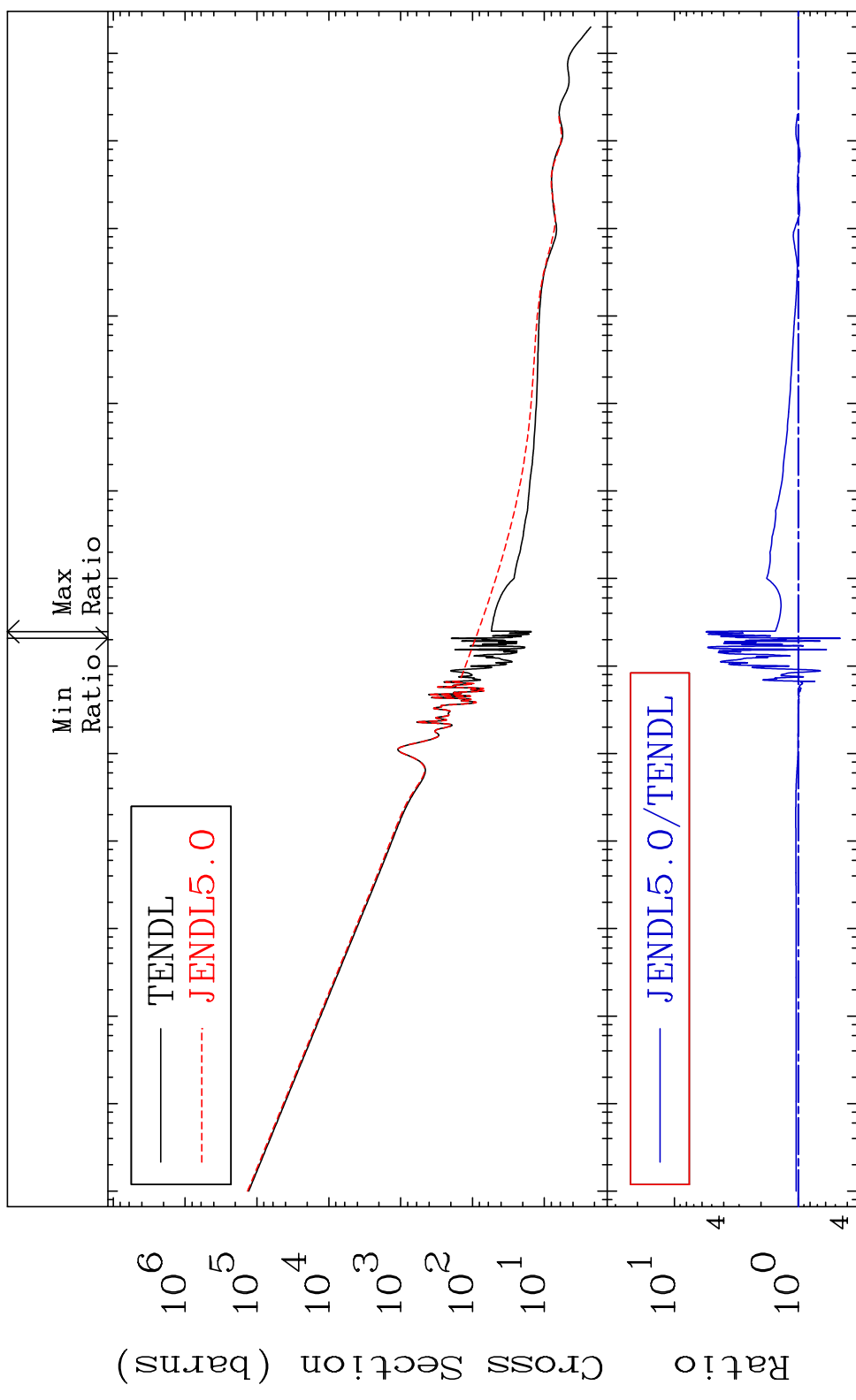
Press Mouse Button to Start

MAT 9349

Total

93-Np-238

Cross Section -54.49 To 458.8 %



1

Incident Energy (eV)

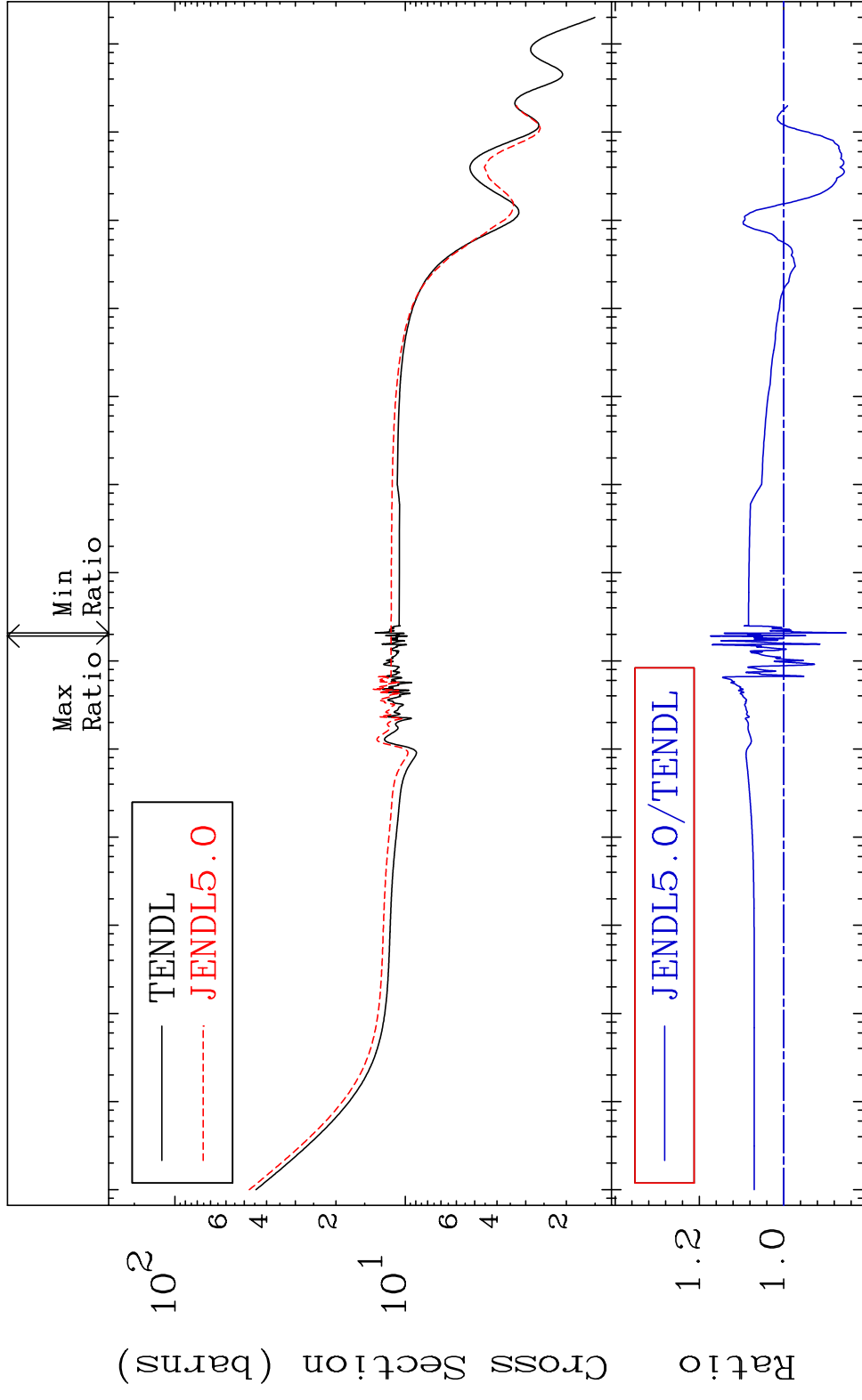
93-Np-238

MAT 9349

Elastic

93-Np-238

Cross Section -14.87 To 17.32 %

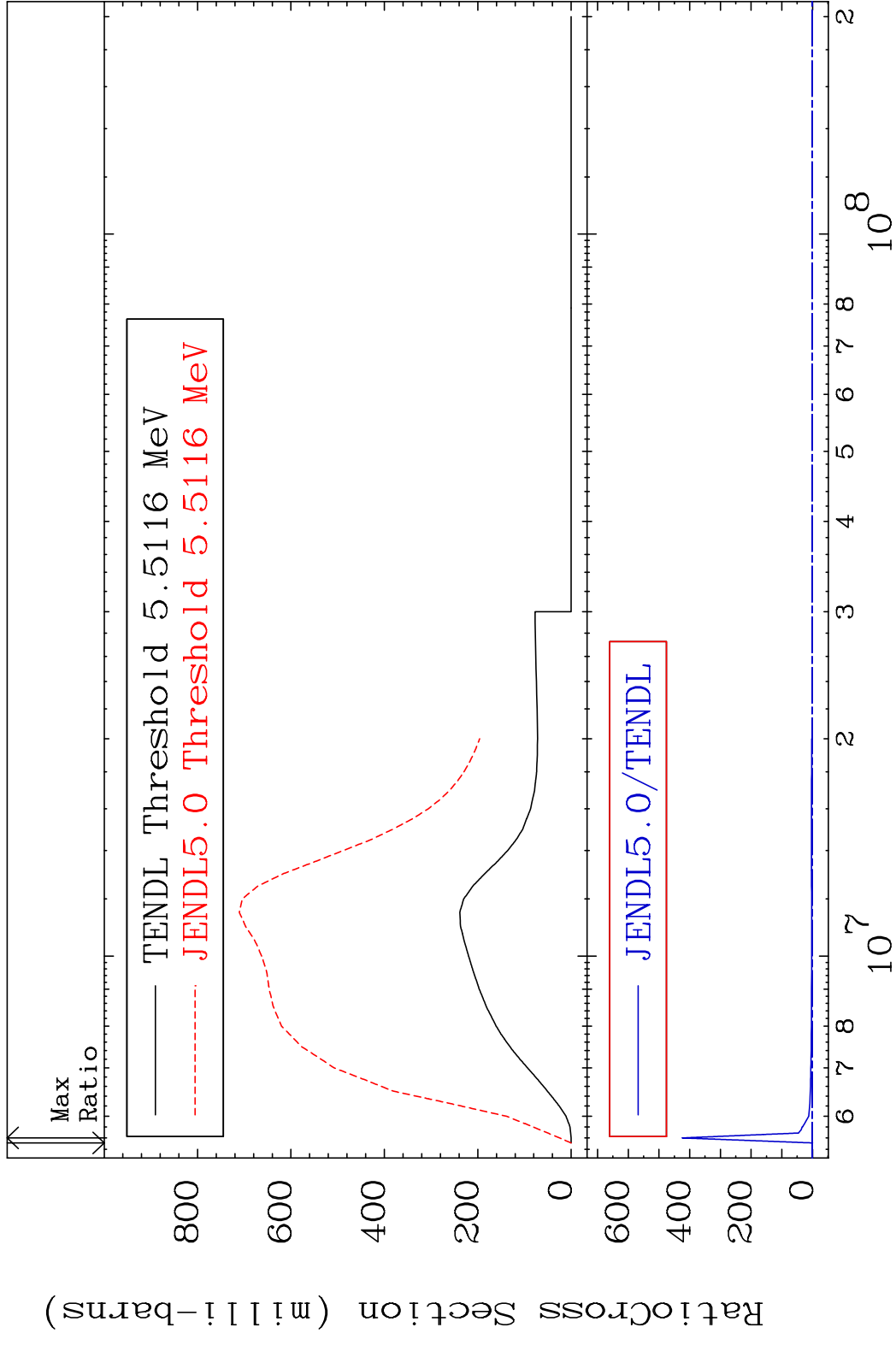


2

Incident Energy (eV)

93-Np-238

MAT 9349 (n,2n) 93-Np-238
 Cross Section -100.0 To 9999. %



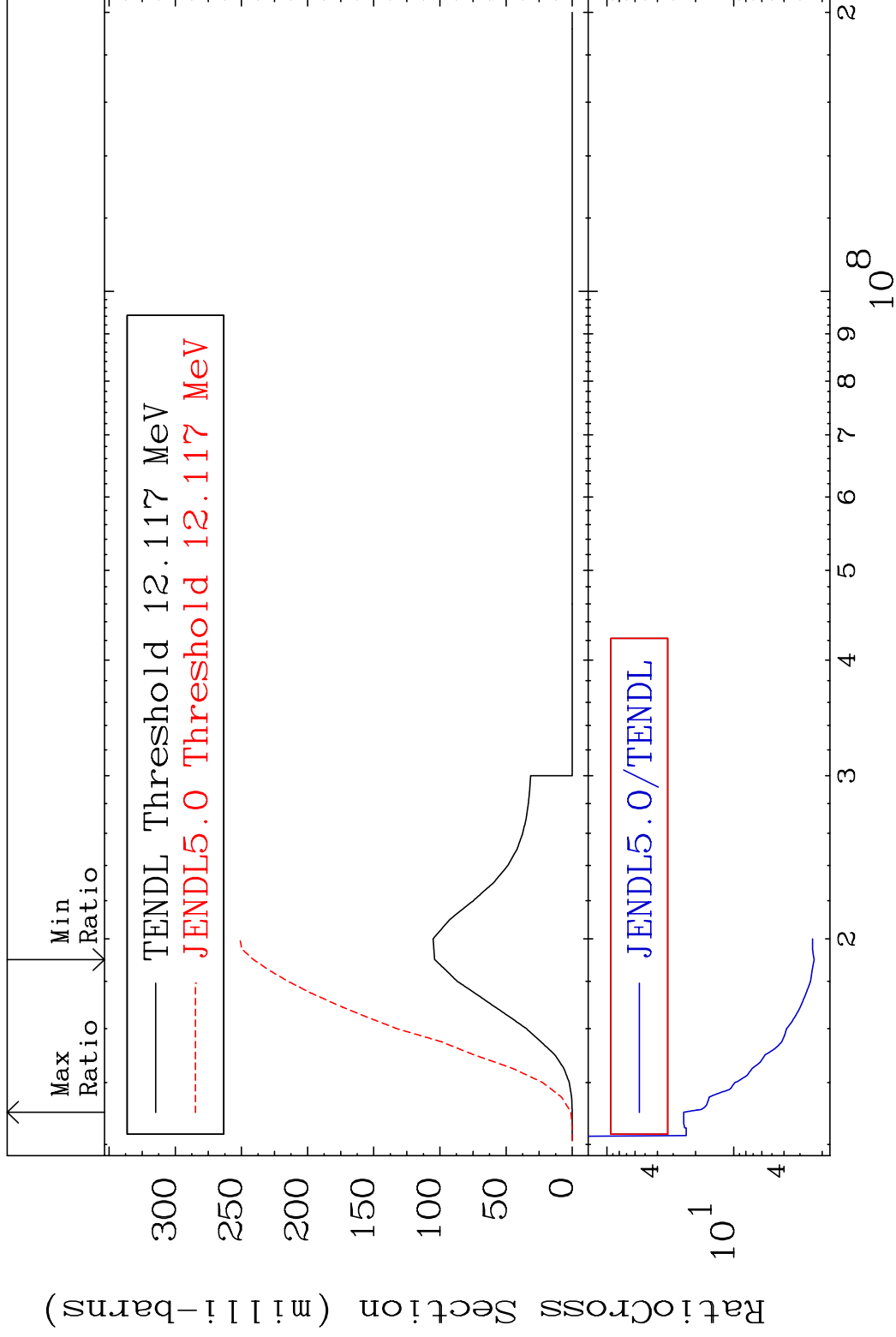
4 Incident Energy (eV) 93-Np-238

MAT 9349

(n,3n)

93-Np-238

Cross Section 131.7 To 2381. %



5

Incident Energy (eV)

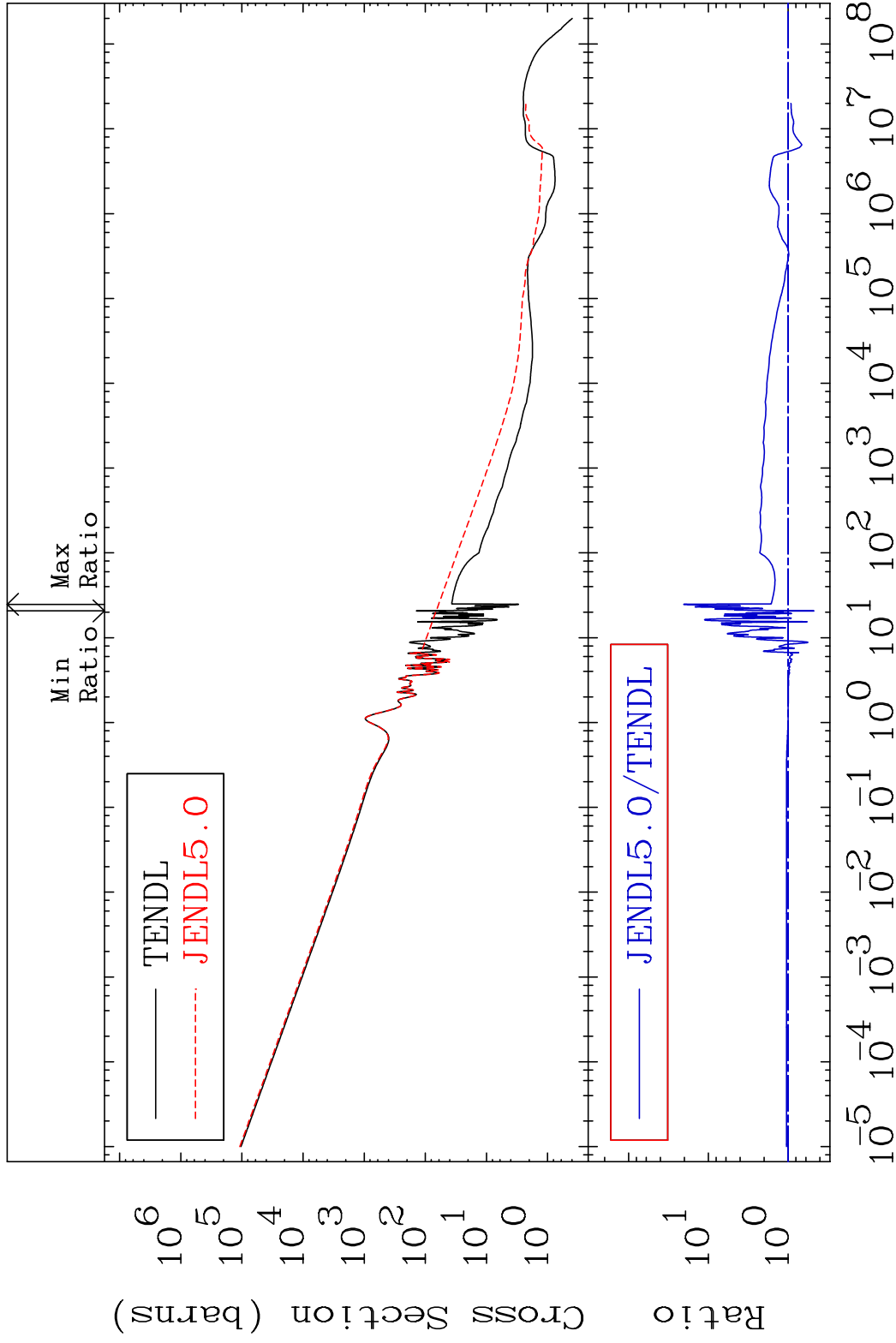
93-Np-238

MAT 9349

Fission

93-Np-238

Cross Section -52.76 To 1941. %

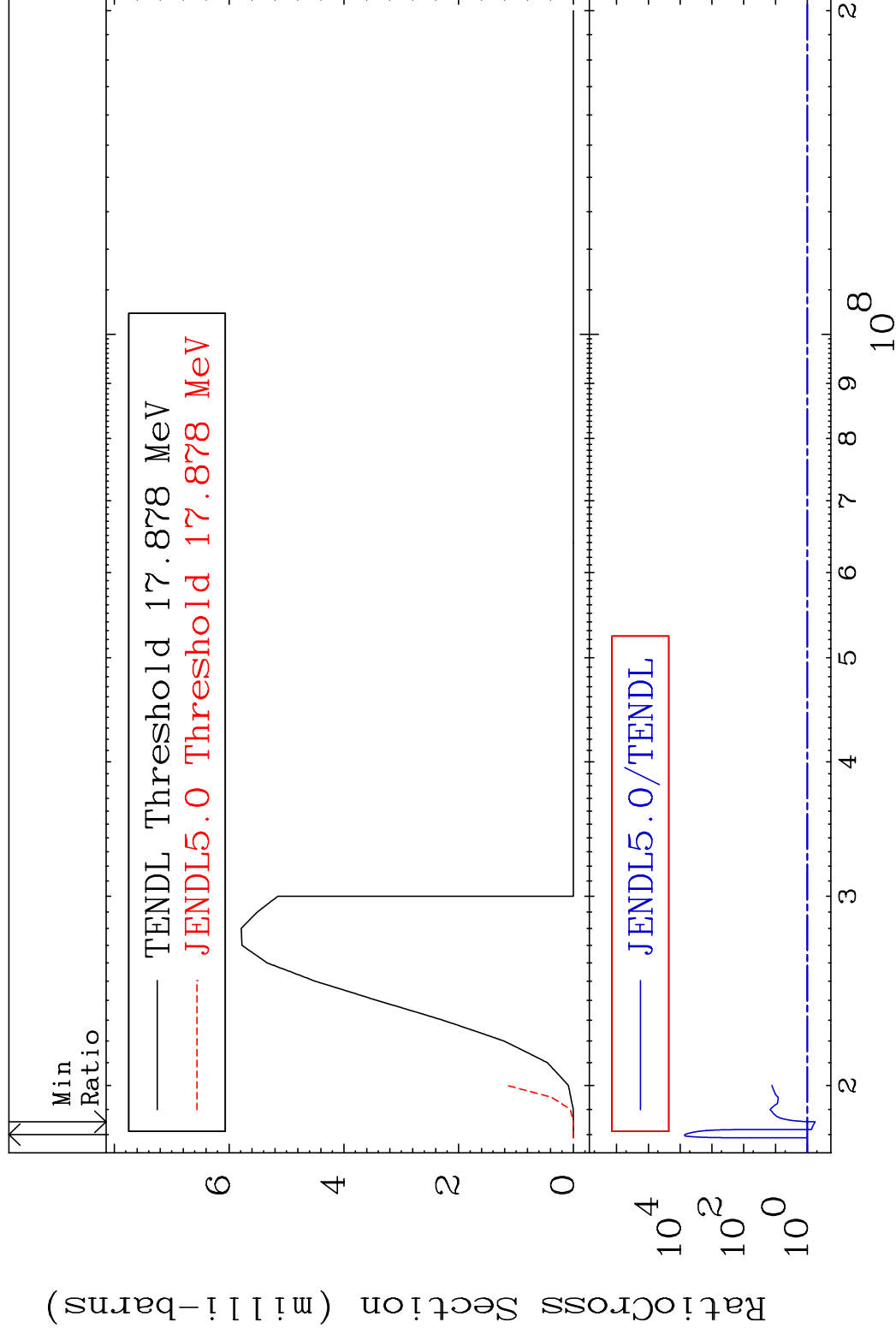


MAT 9349

(n, 4n)

93-Np-238

Cross Section -42.70 To 9999. %

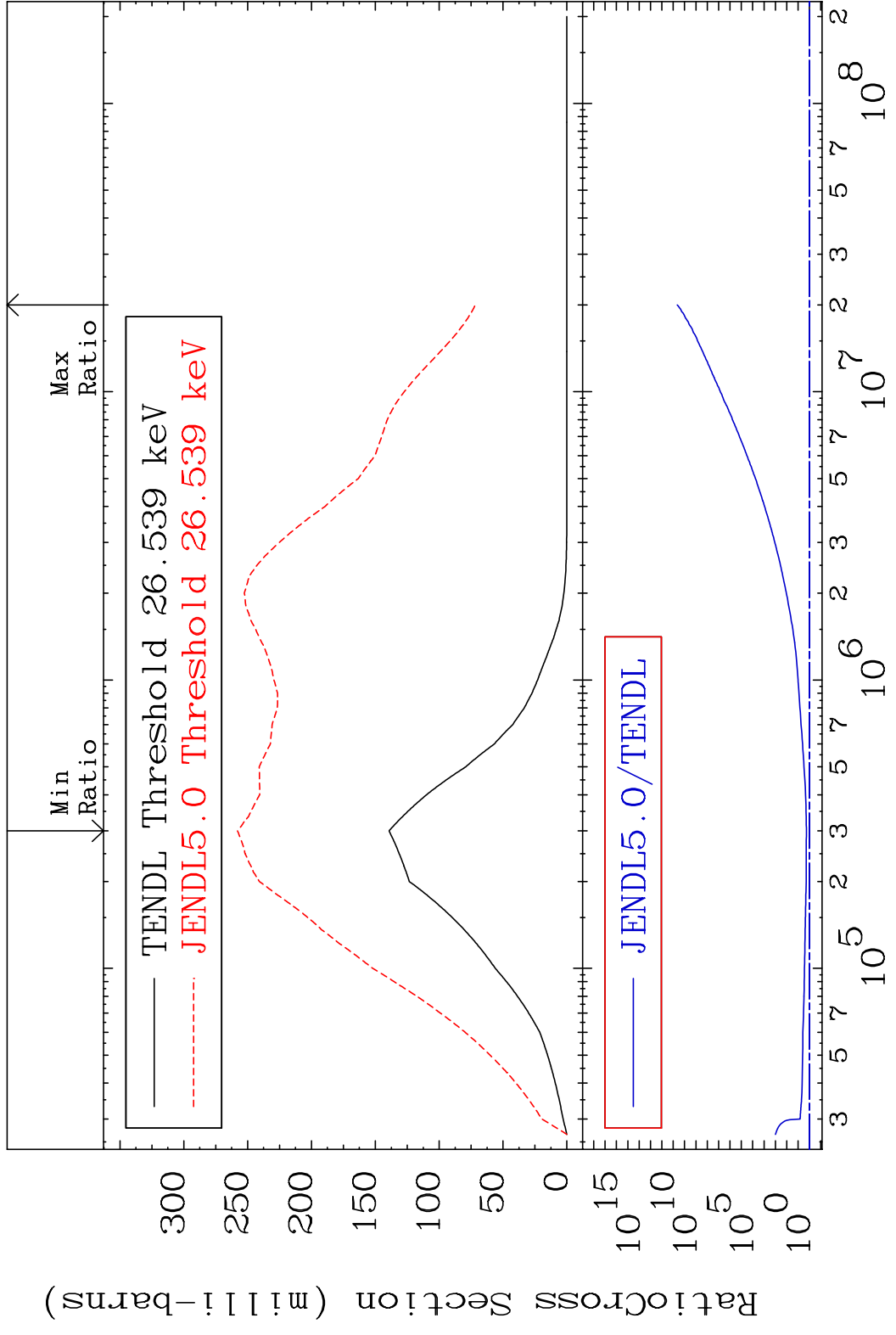


7

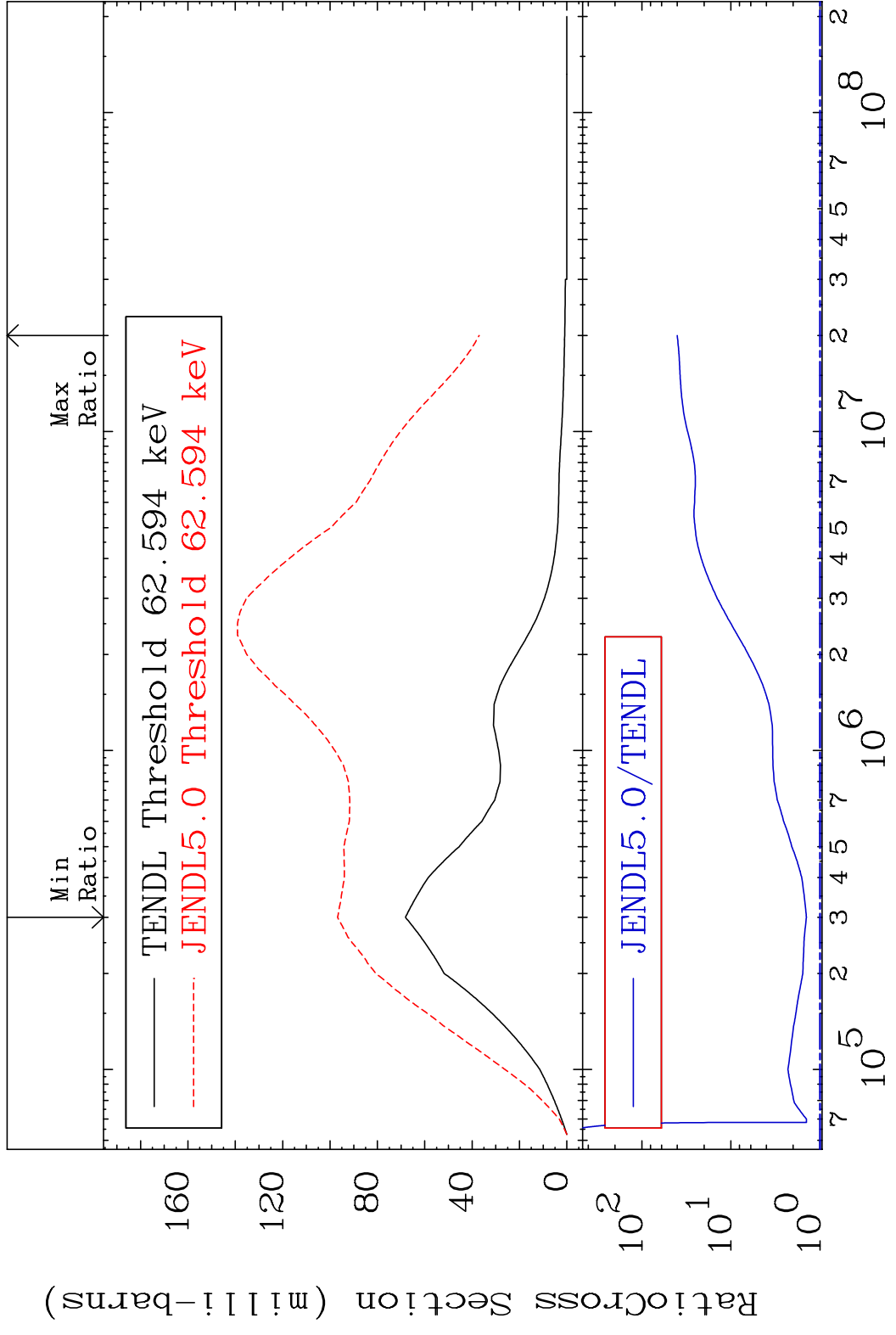
Incident Energy (eV)

93-Np-238

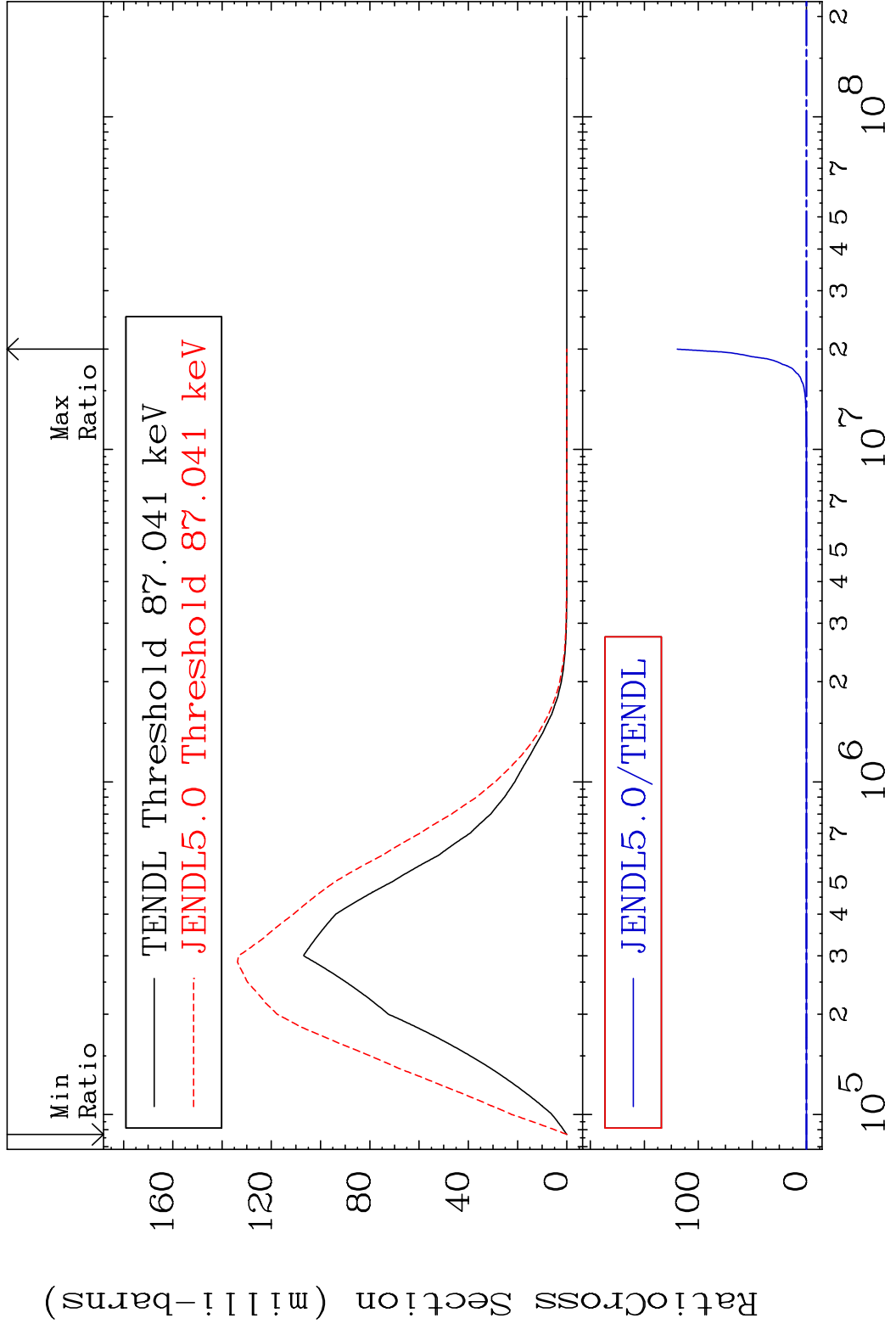
MAT 9349 MT= 51 (n, n') Level 93-Np-238
 Cross Section 85.20 To 9999. %



MAT 9349 MT= 52 (n, n') Level 93-Np-238
 Cross Section 42.02 To 3914. %

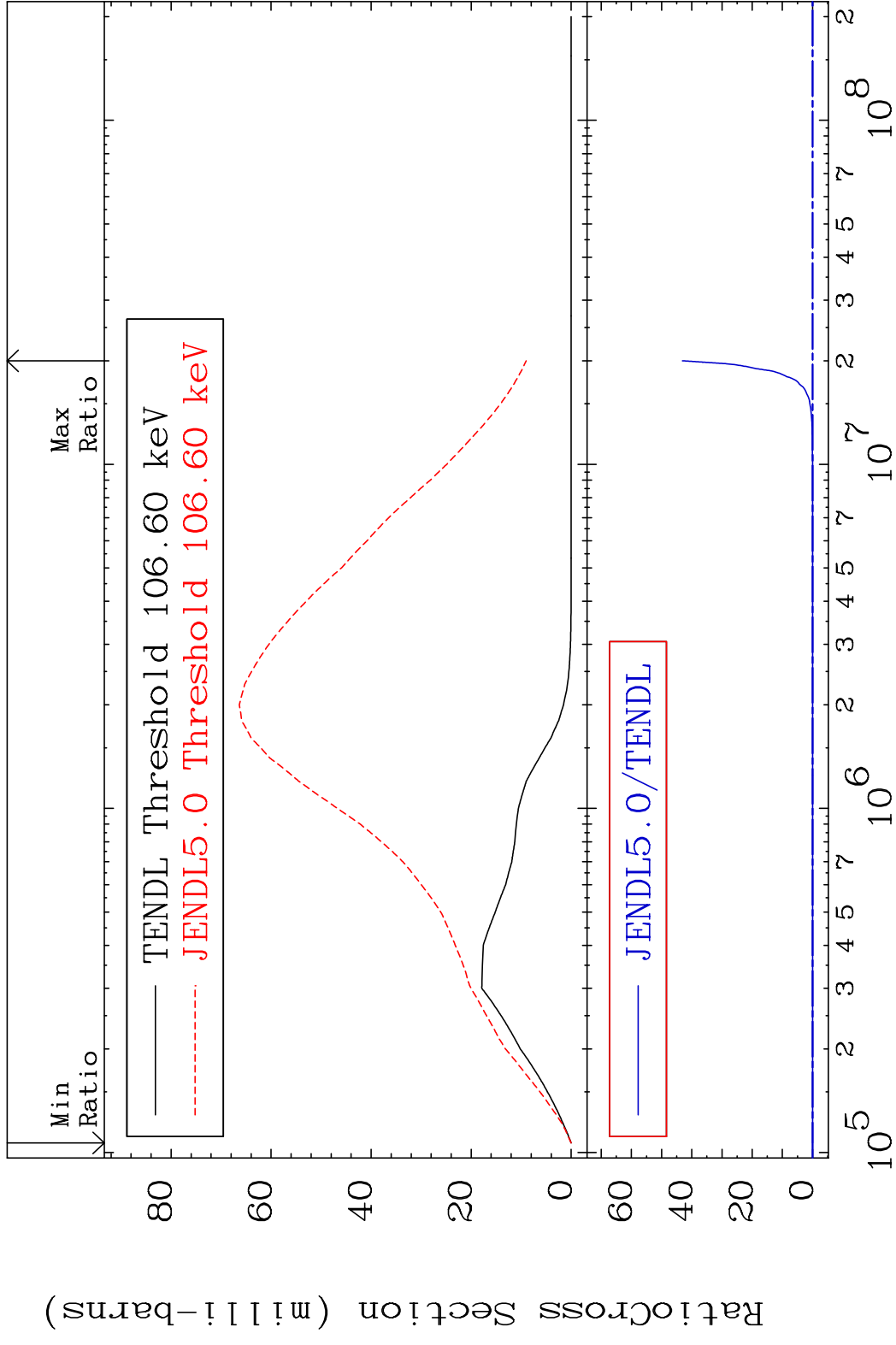


MAT 9349 MT= 53 (n, n') Level 93-Np-238
 Cross Section -100.0 To 9999. %

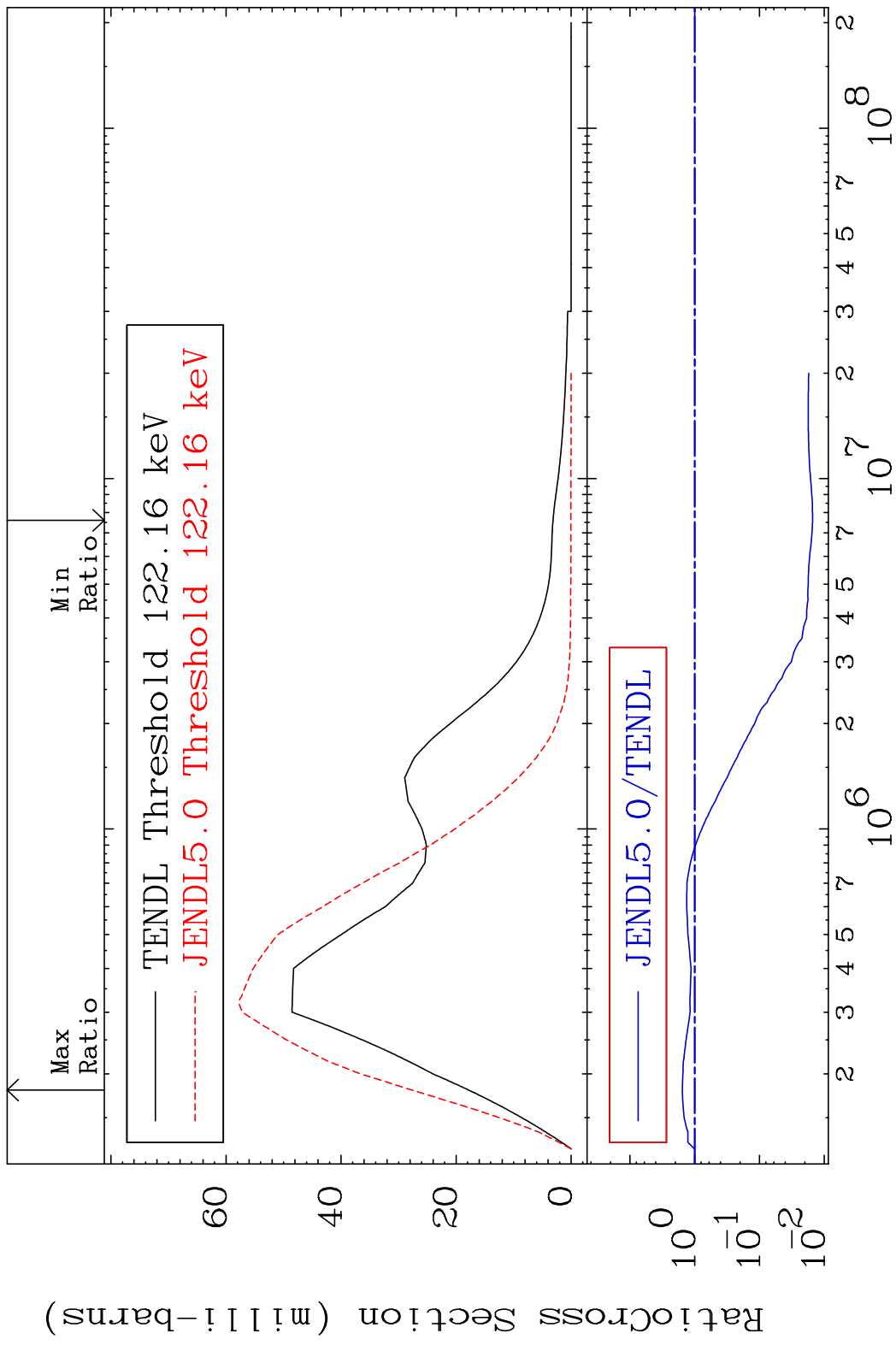


10 10⁵ 10⁶ 10⁷ 10⁸ 2 3 4 5 6 7 8 2 93-Np-238

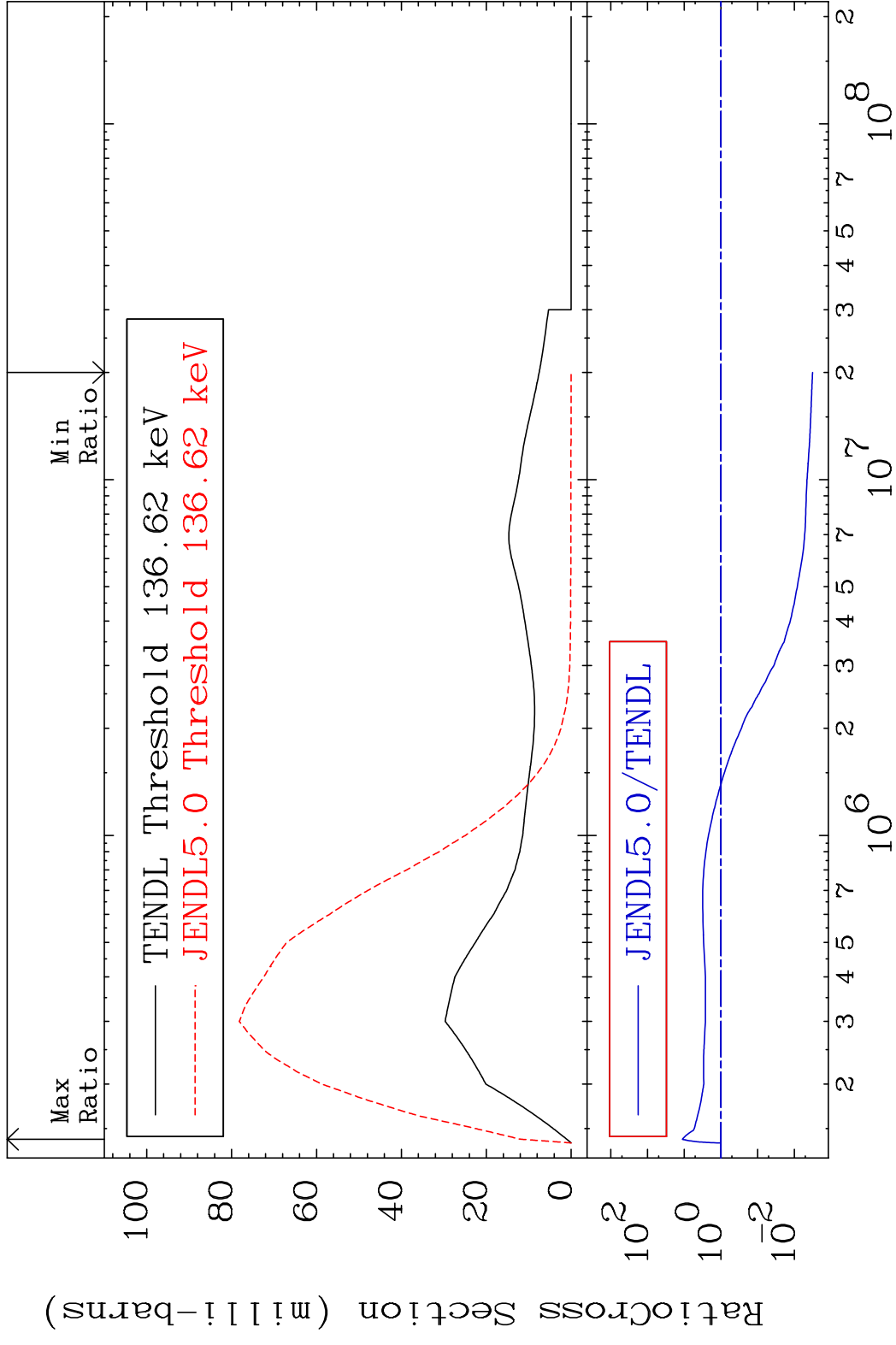
MAT 9349 MT= 54 (n, n') Level 93-Np-238
 Cross Section -100.0 To 9999. %



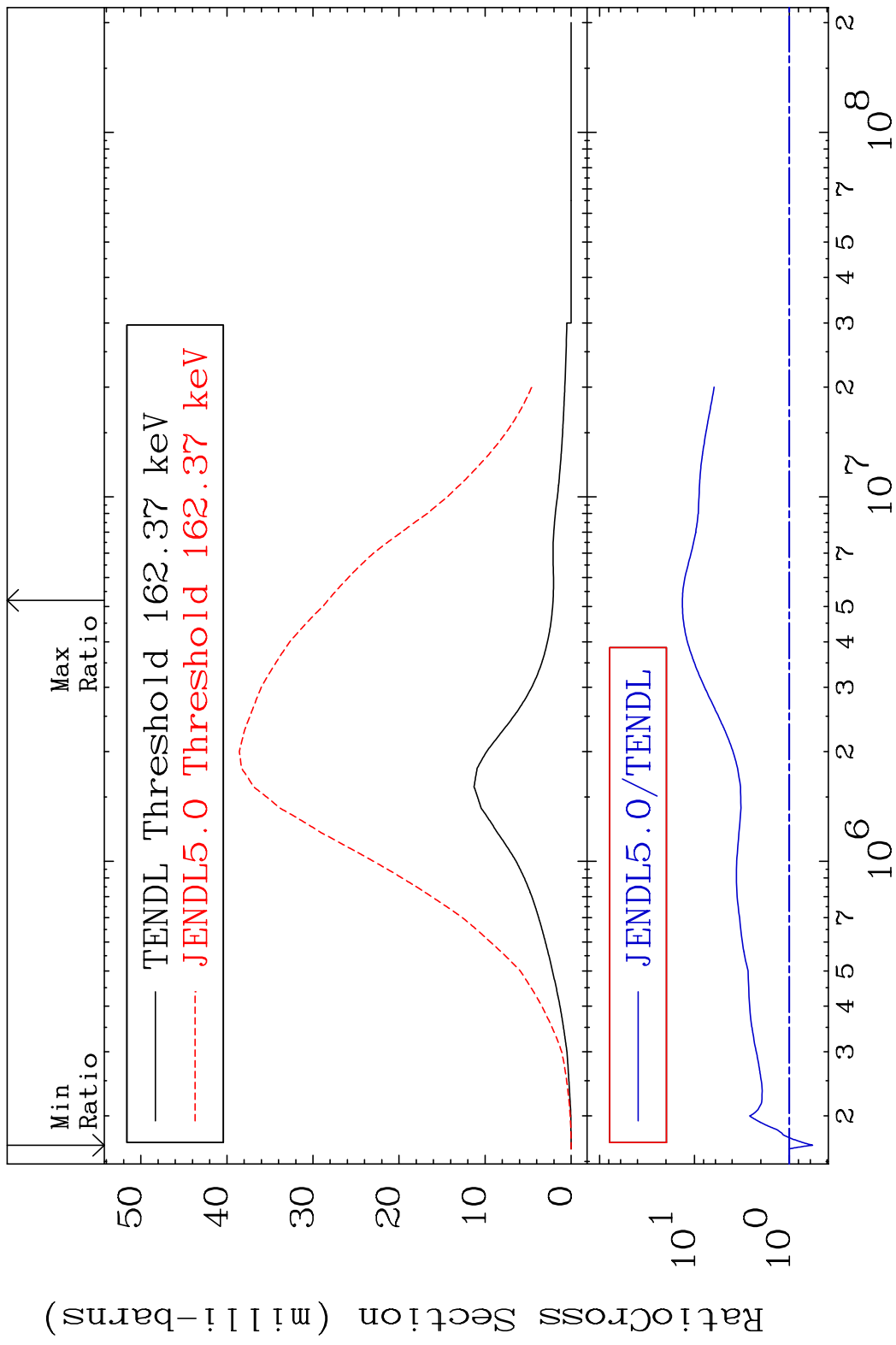
MAT 9349 MT= 55 (n, n') Level 93-Np-238
 Cross Section -98.48 To 55.44 %



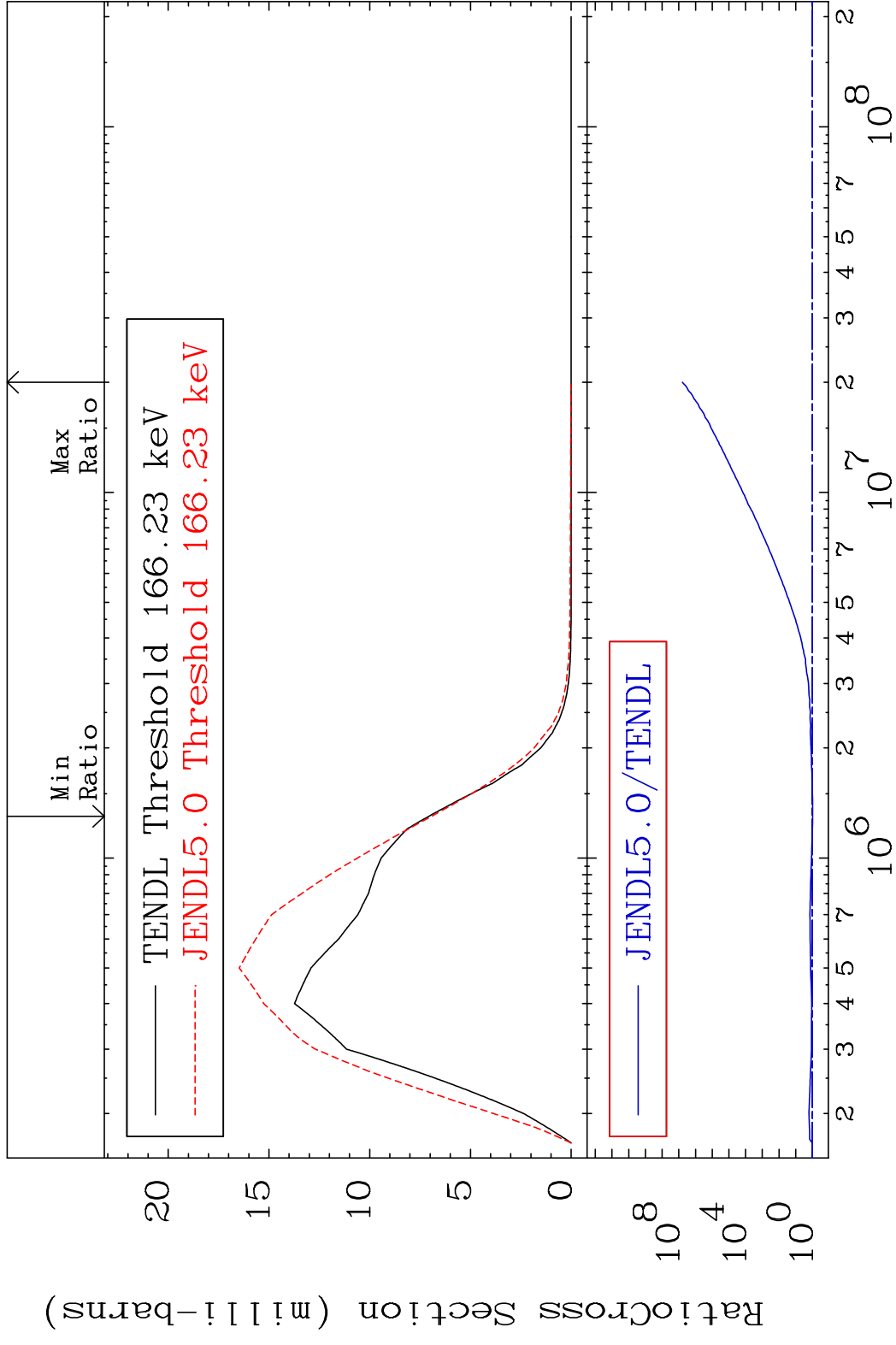
MAT 9349 MT= 56 (n, n') Level 93-Np-238
 Cross Section -99.68 To 1024. %



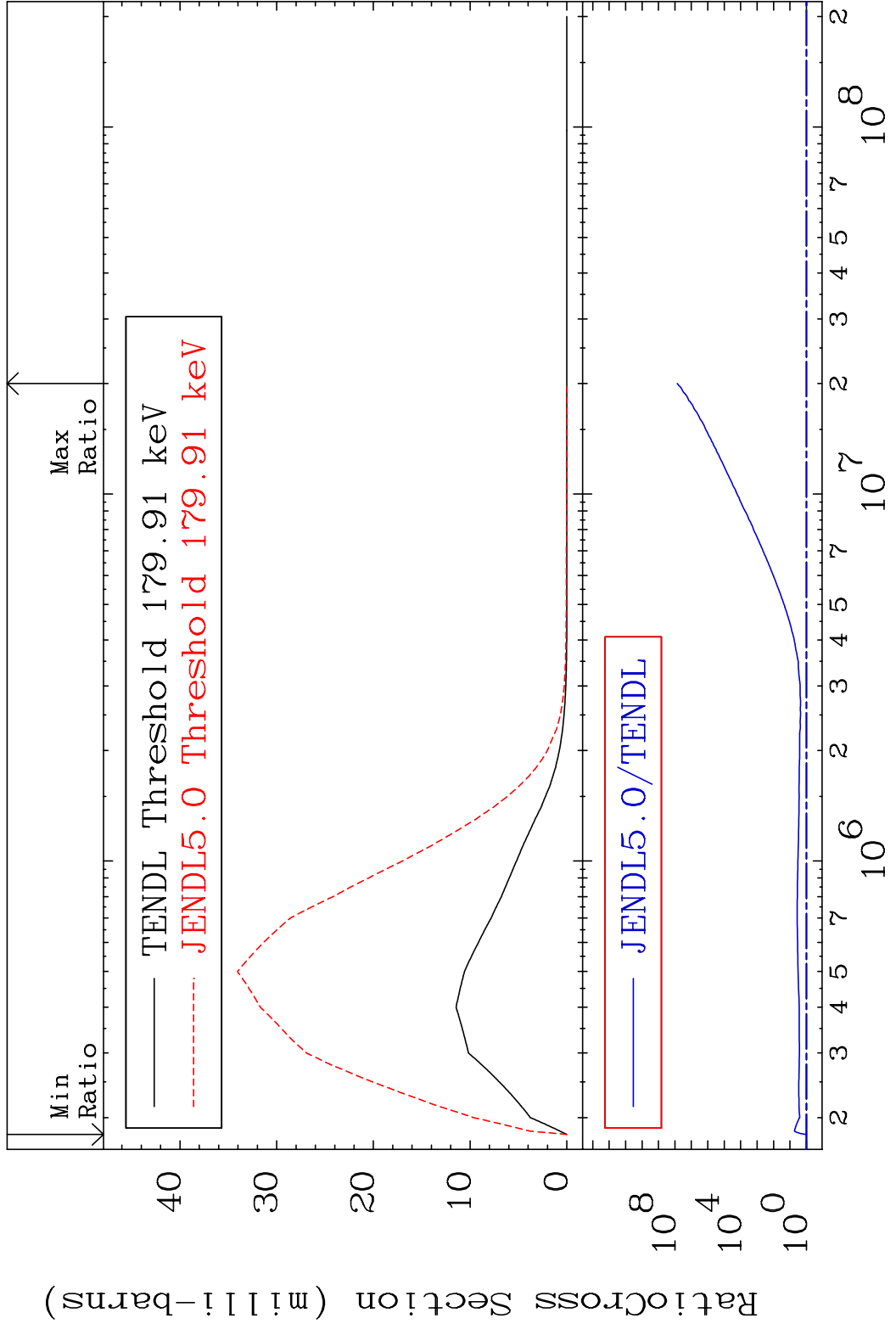
MAT 9349 MT= 57 (n, n') Level 93-Np-238
 Cross Section -43.20 To 1242. %



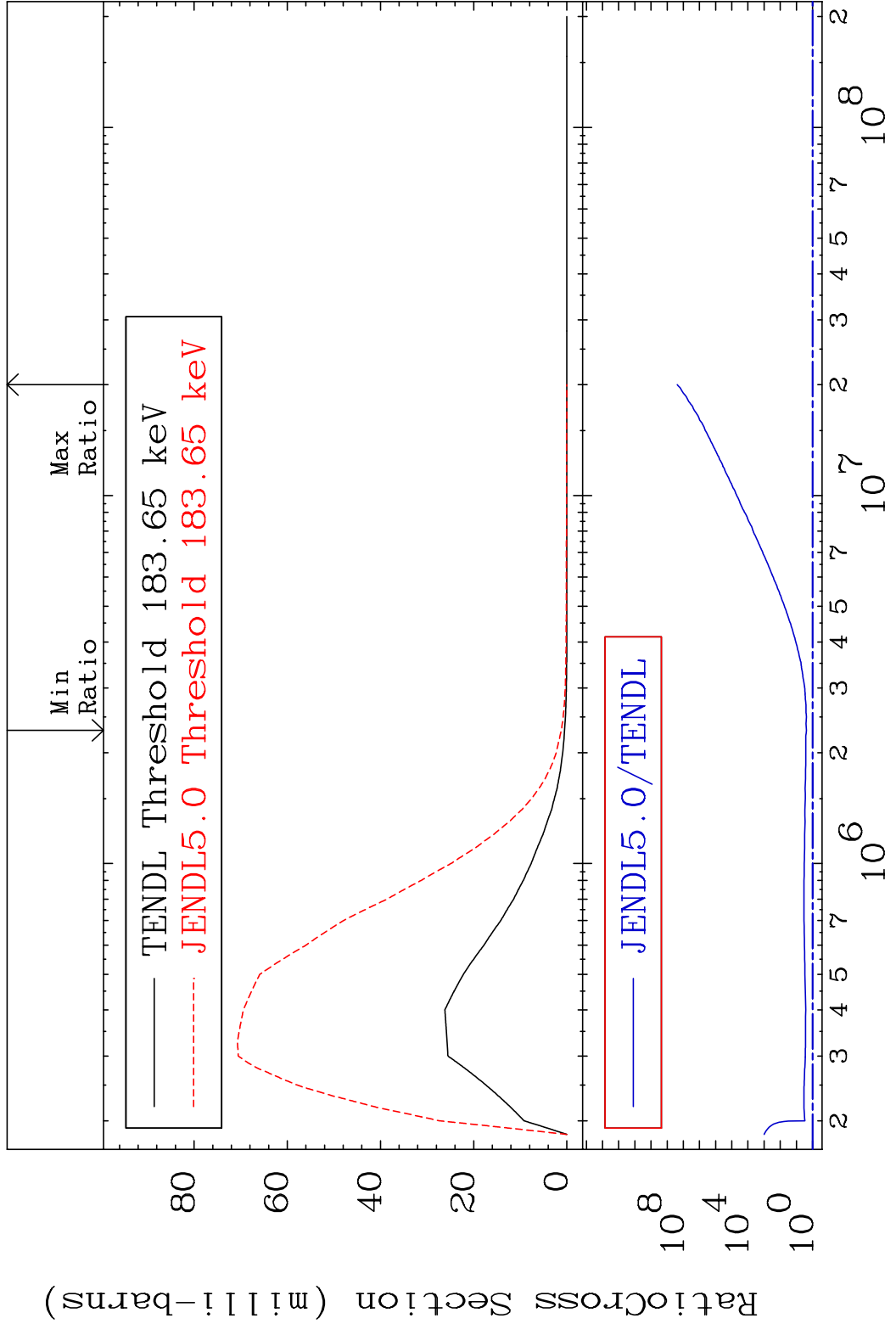
MAT 9349 MT= 58 (n, n') Level 93-Np-238
 Cross Section -1.984 To 9999. %



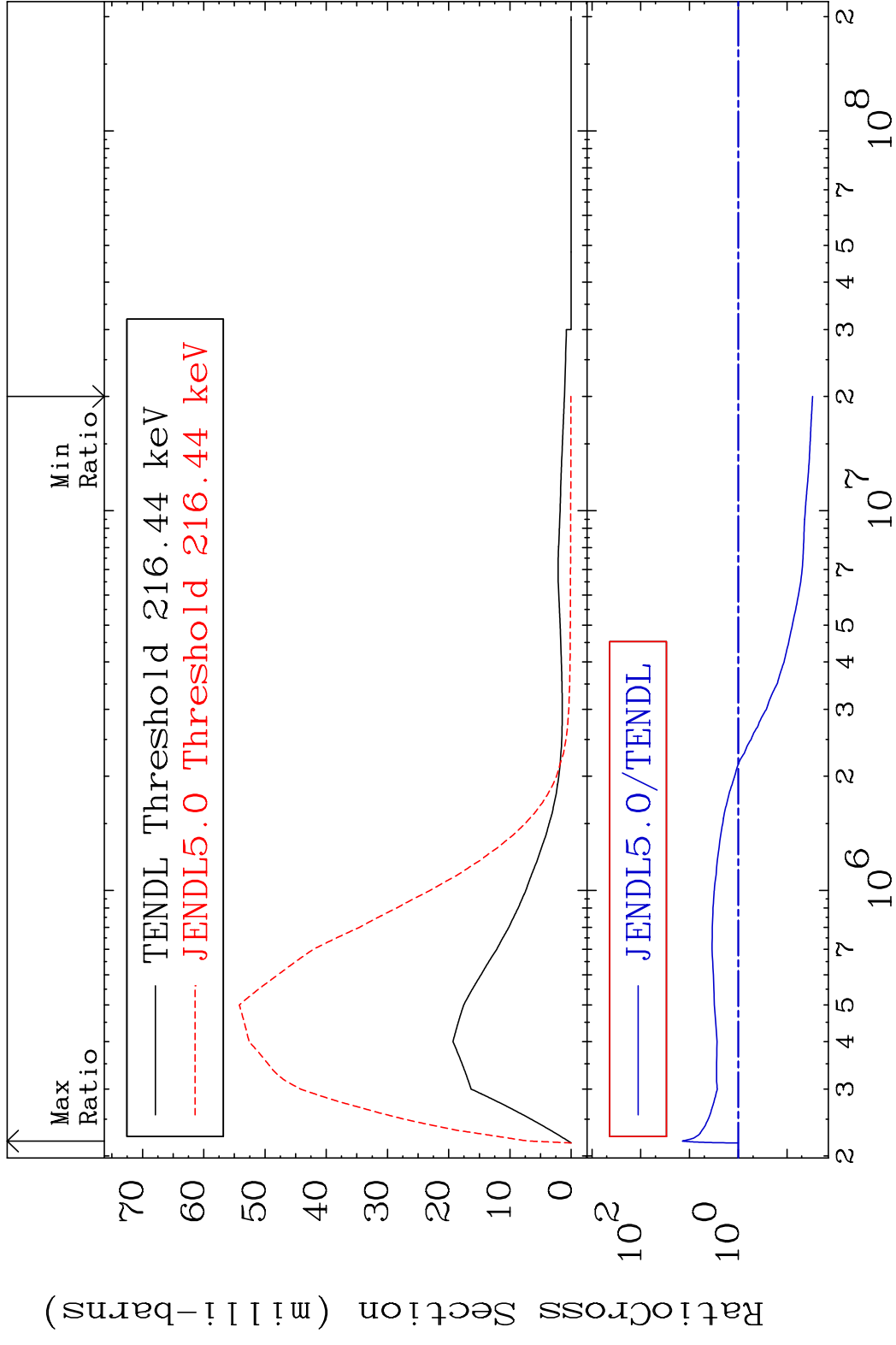
MAT 9349 MT= 59 (n, n') Level 93-Np-238
 Cross Section 0.000 To 9999. %



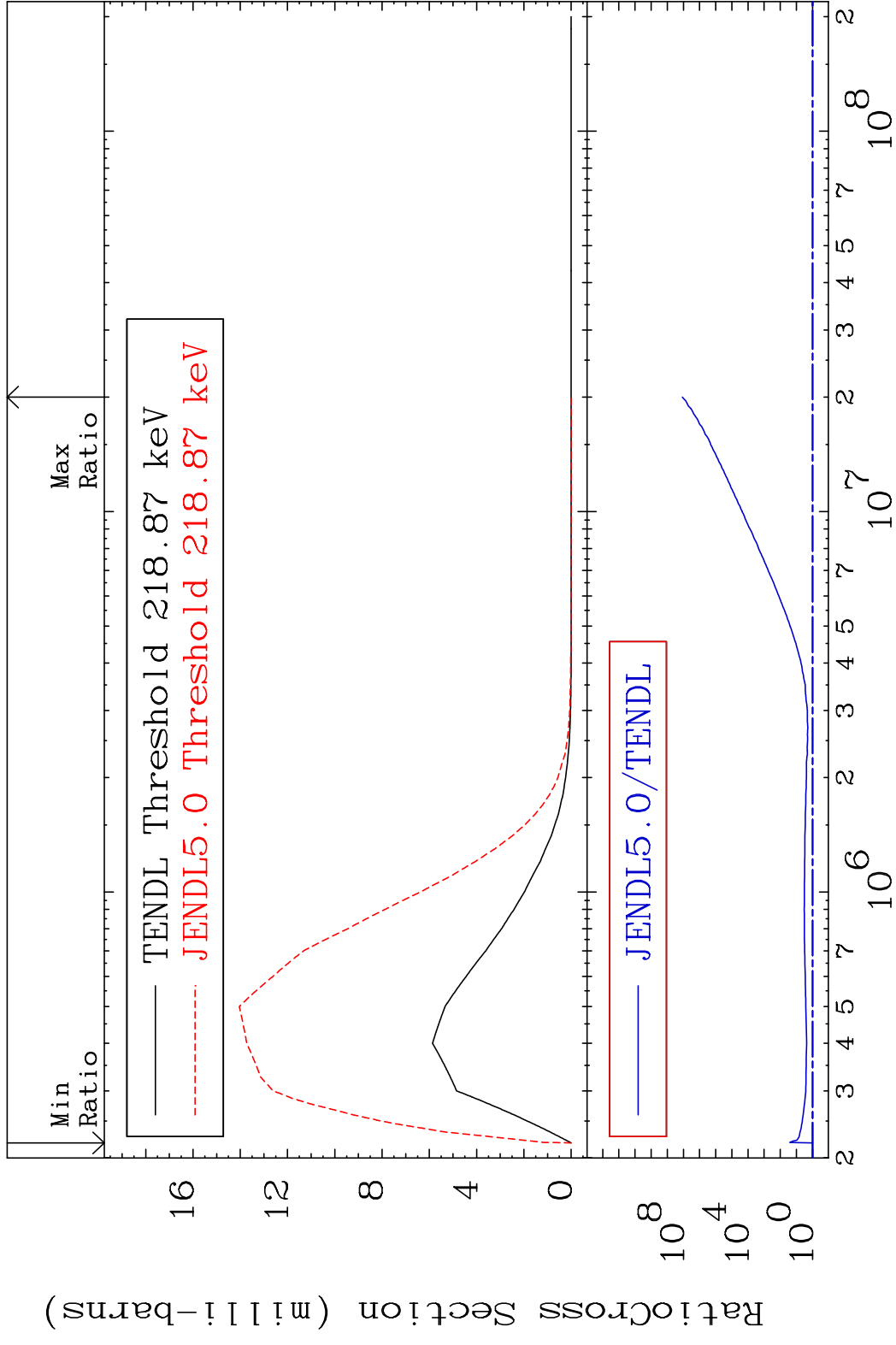
MAT 9349 MT= 60 (n, n') Level 93-Np-238
 Cross Section 139.9 To 9999. %



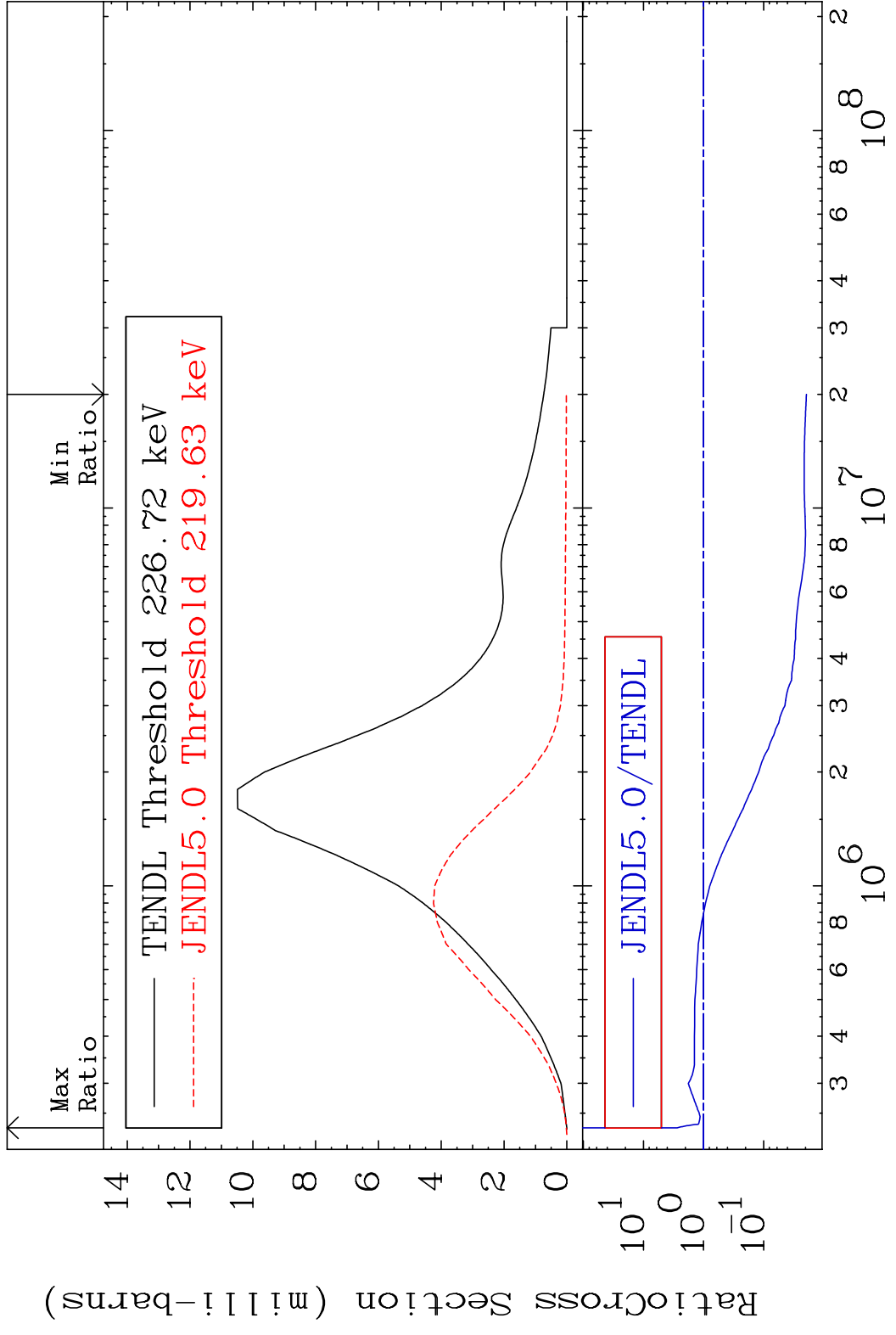
MAT 9349 MT= 61 (n, n') Level 93-Np-238
 Cross Section -97.00 To 1303. %



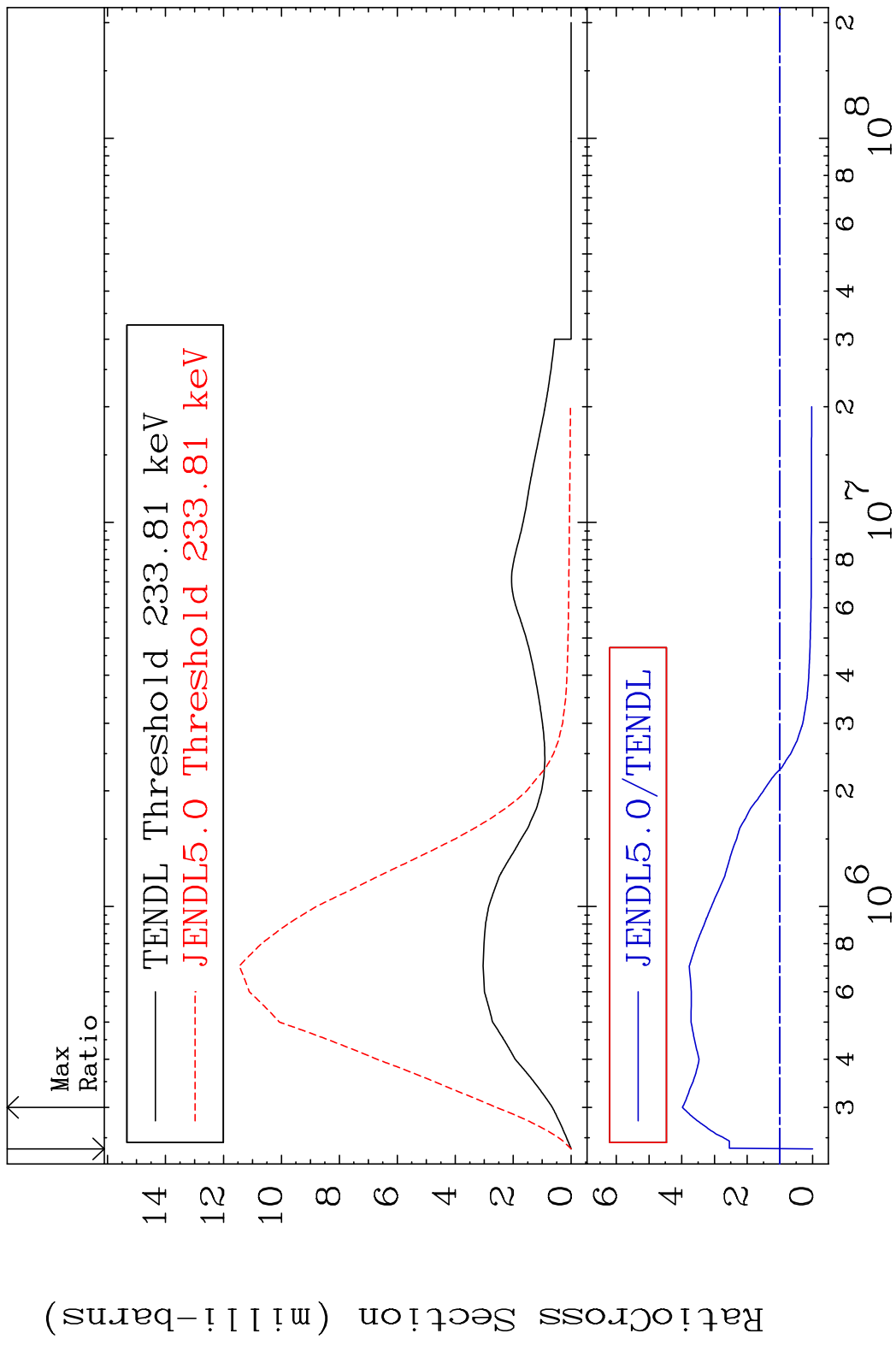
MAT 9349 MT= 62 (n, n') Level 93-Np-238
 Cross Section 0.000 To 9999. %



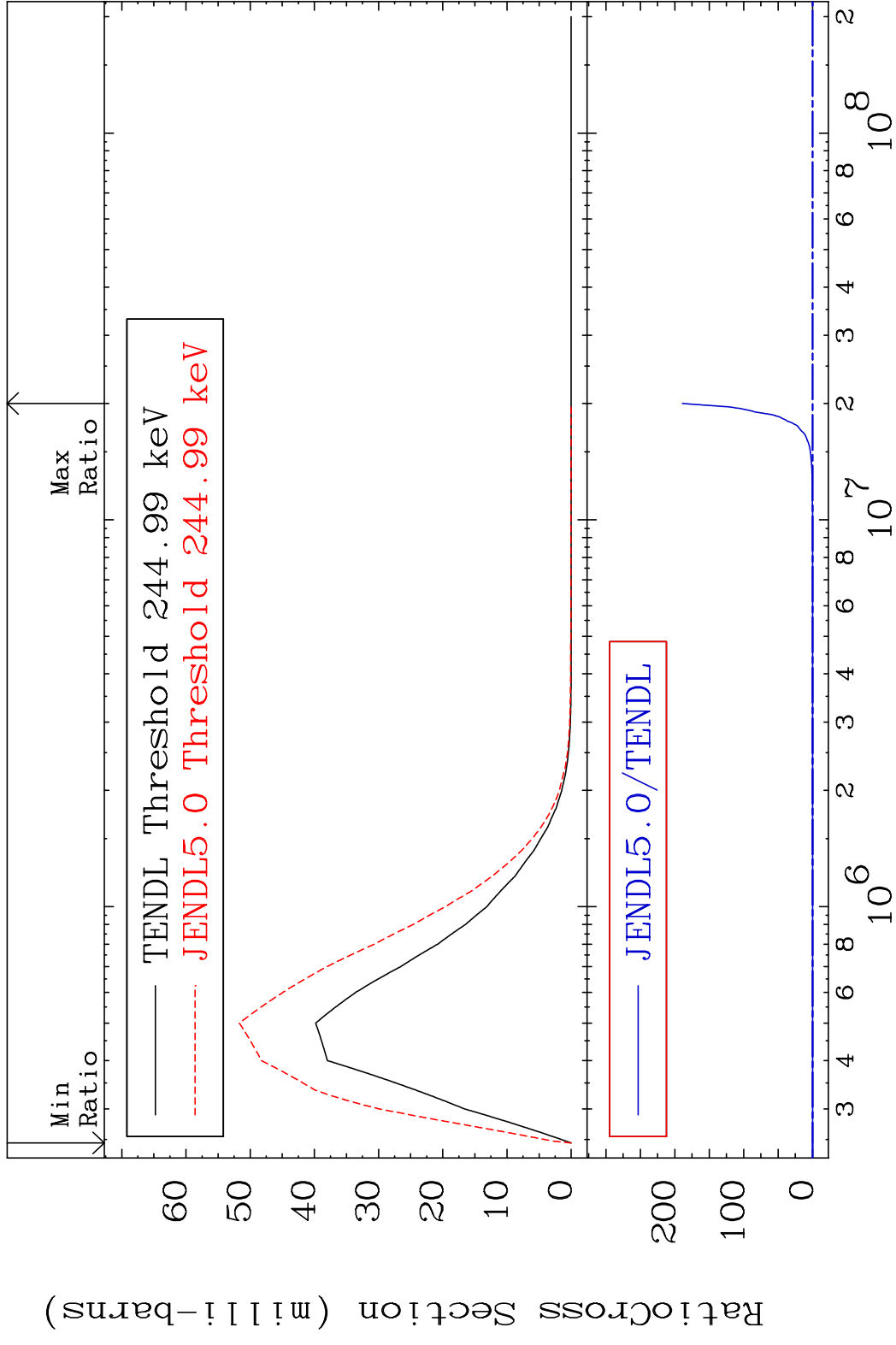
MAT 9349 MT= 63 (n, n') Level 93-Np-238
 Cross Section -98.06 To 174.1 %



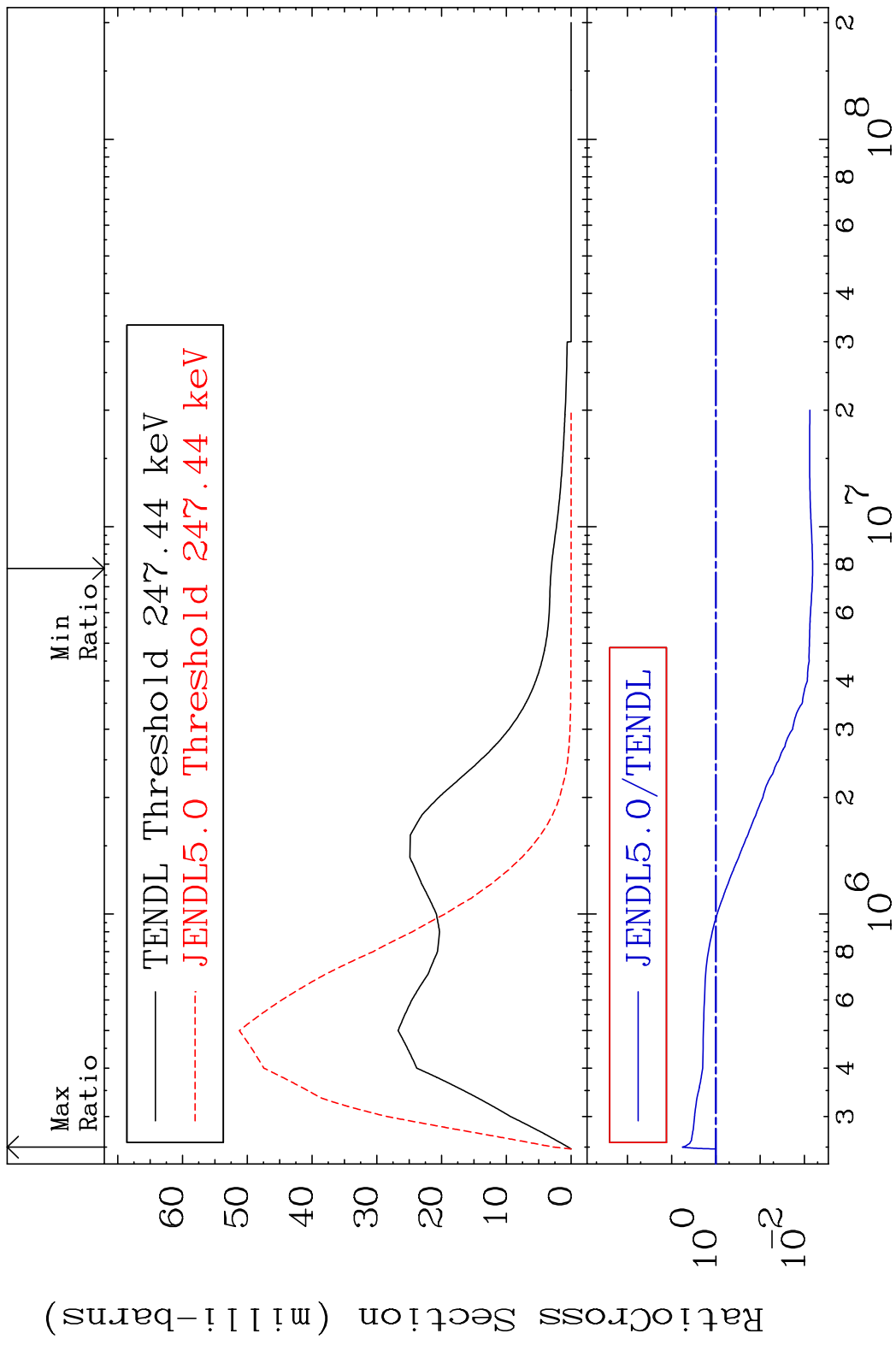
MAT 9349 MT= 64 (n, n') Level 93-Np-238
 Cross Section -100.0 To 298.1 %



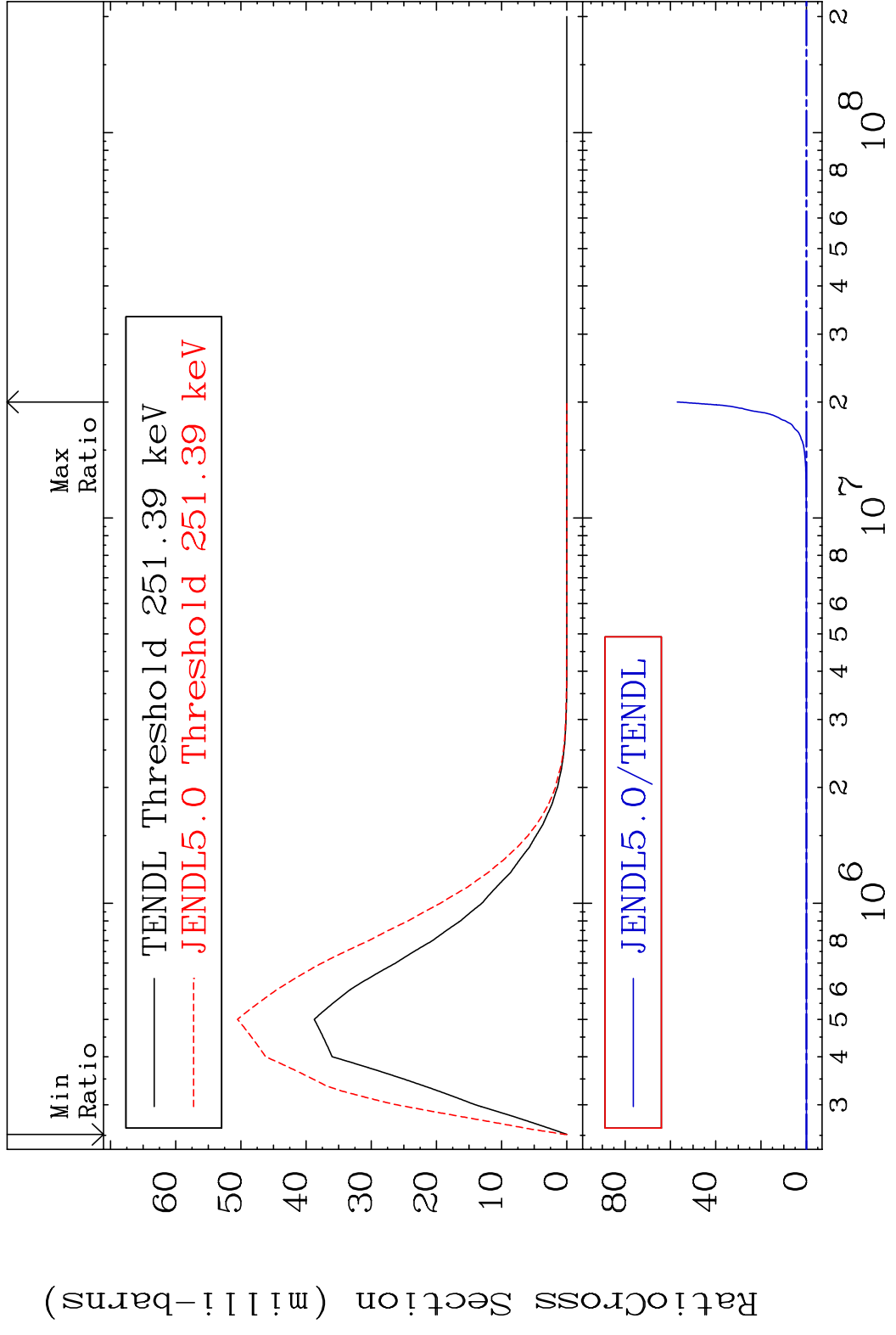
MAT 9349 MT= 65 (n, n') Level 93-Np-238
 Cross Section -100.0 To 9999. %



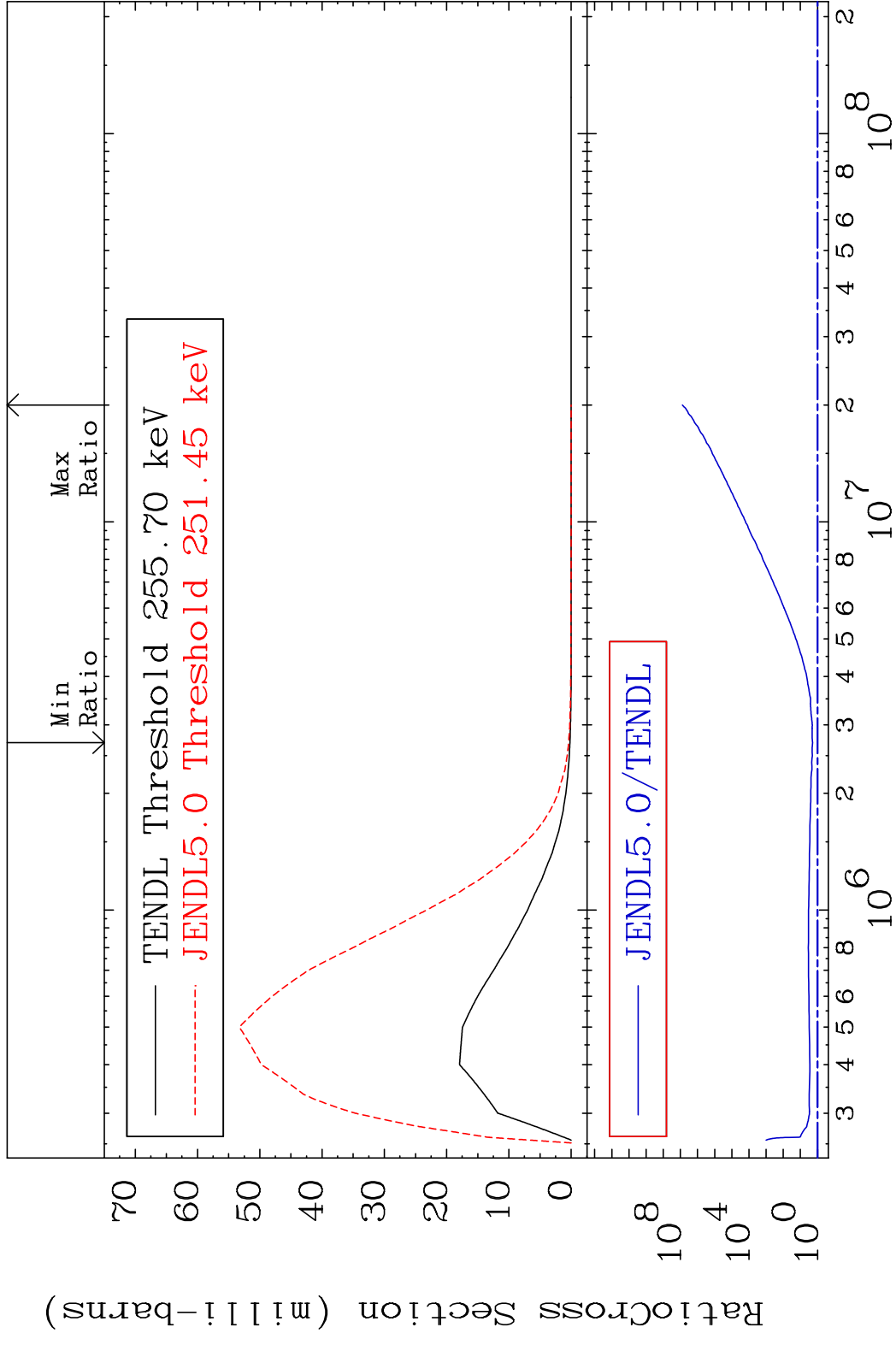
MAT 9349 MT= 66 (n, n') Level 93-Np-238
 Cross Section -99.35 To 473.5 %



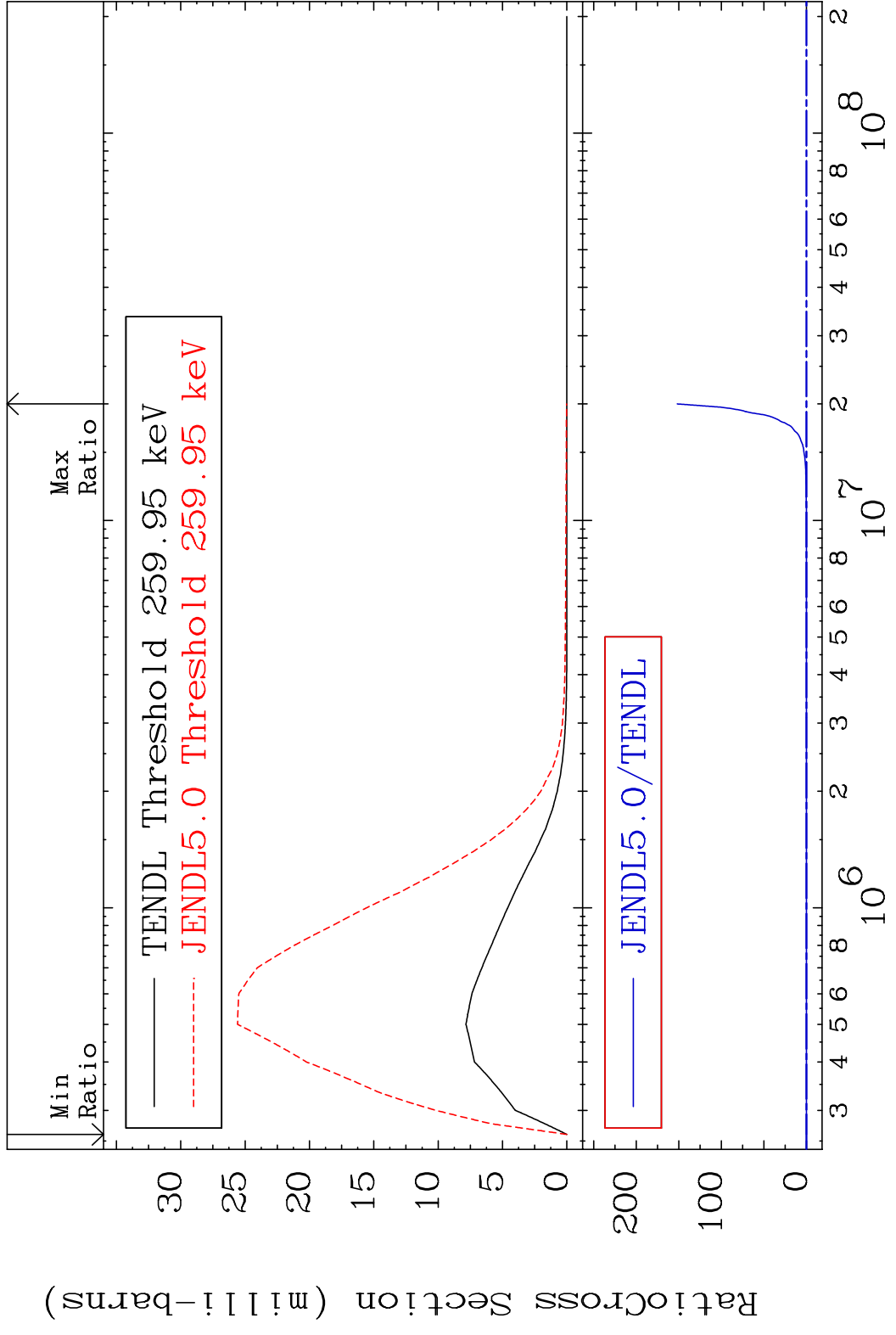
MAT 9349 MT= 67 (n, n') Level 93-Np-238
 Cross Section -100.0 To 9999. %



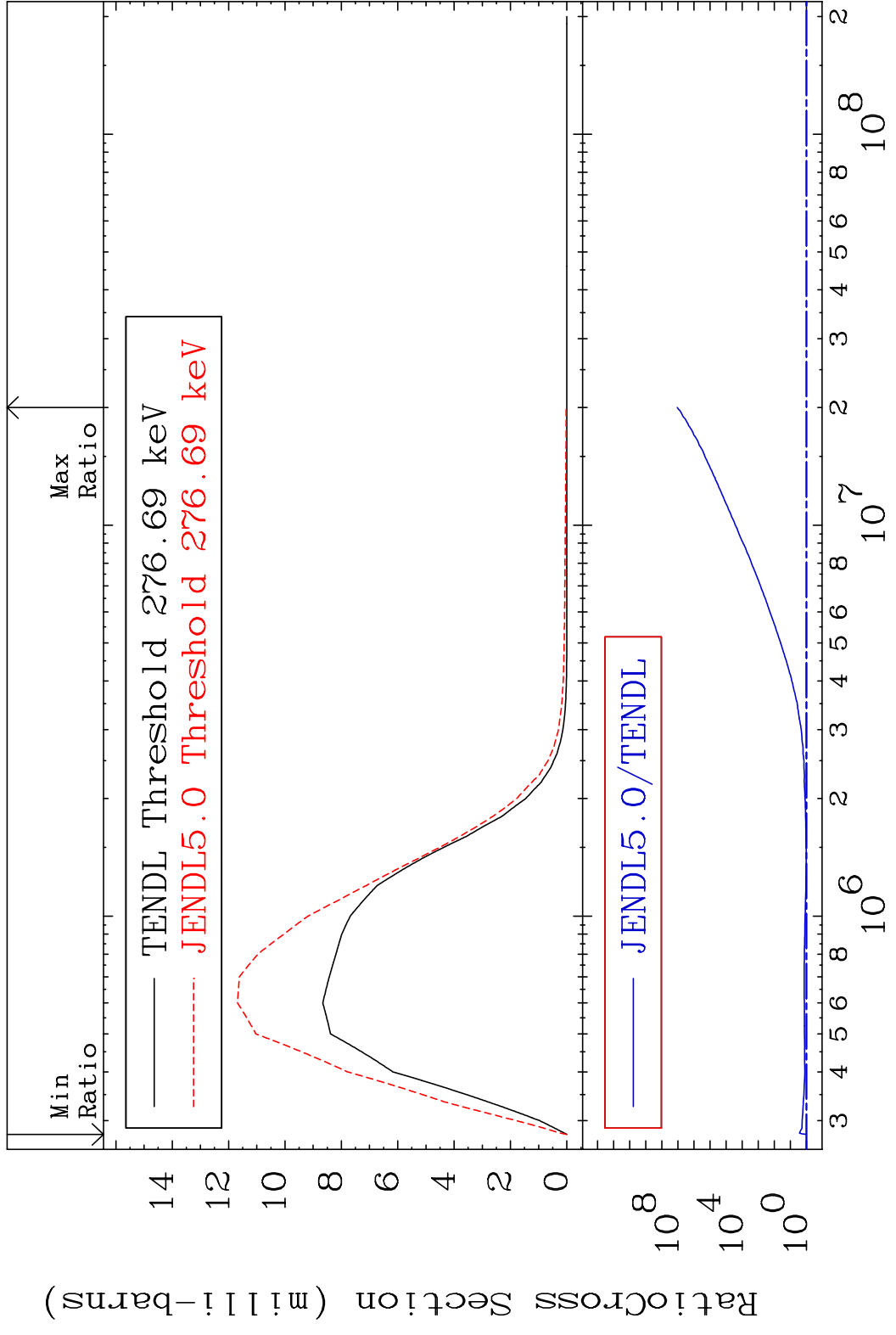
MAT 9349 MT= 68 (n, n') Level 93-Np-238
 Cross Section 94.85 To 9999. %



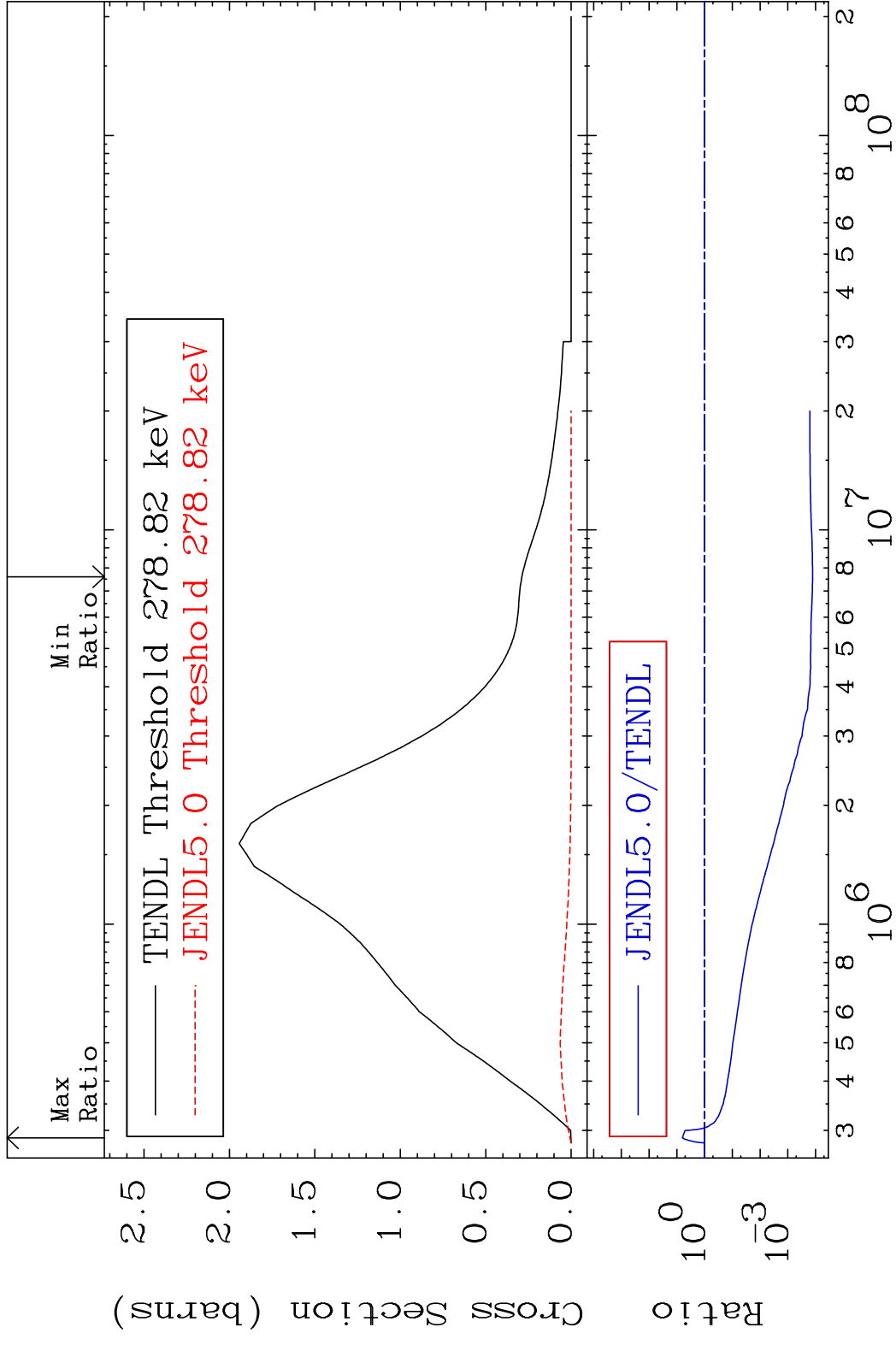
MAT 9349 MT= 69 (n, n') Level 93-Np-238
 Cross Section -100.0 To 9999. %



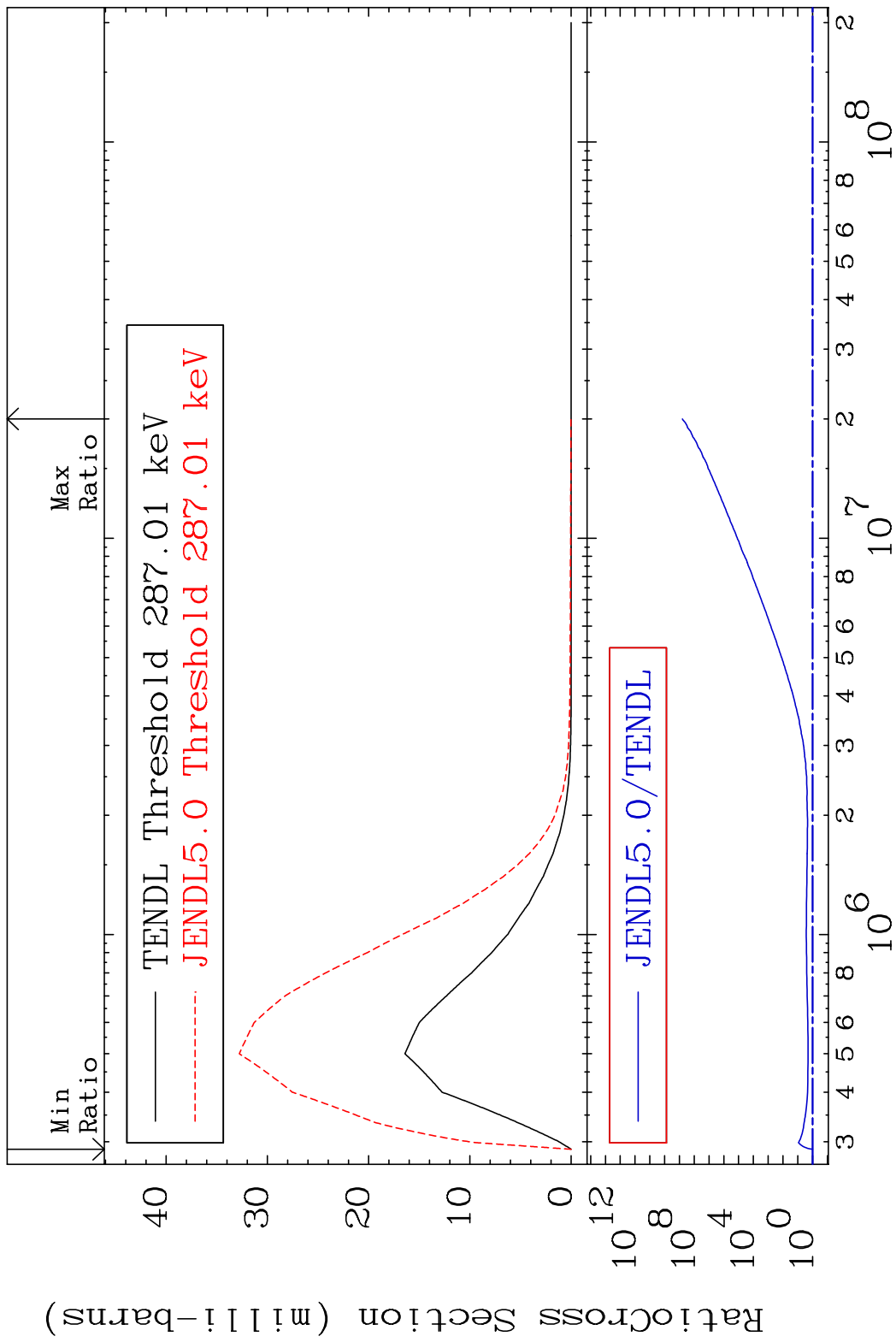
MAT 9349 MT= 70 (n,n') Level 93-Np-238
 Cross Section 0.000 To 9999. %



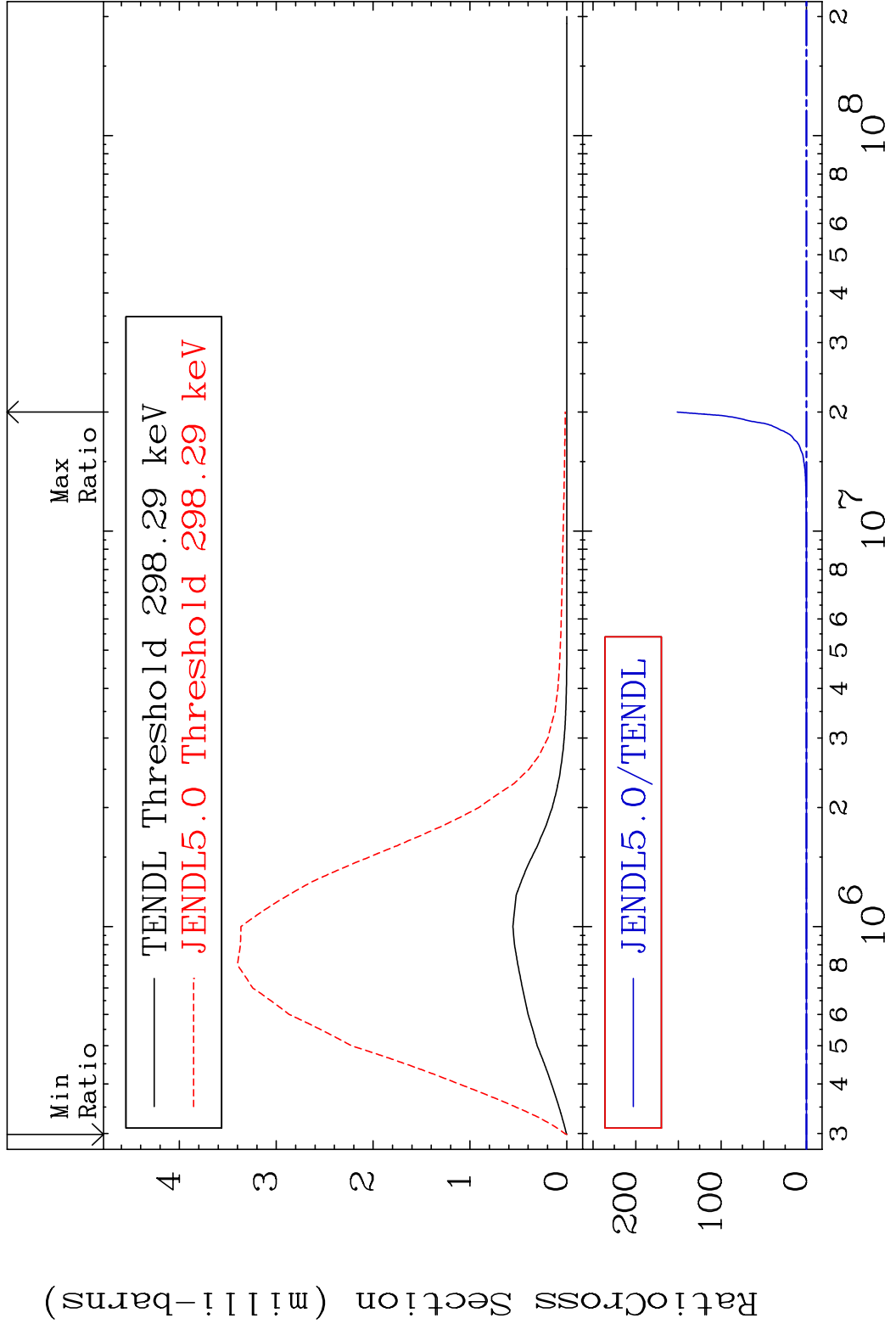
MAT 9349 MT= 71 (n, n') Level 93-Np-238
 Cross Section -99.99 To 533.1 %



MAT 9349 MT= 72 (n, n') Level 93-Np-238
 Cross Section 0.000 To 9999. %

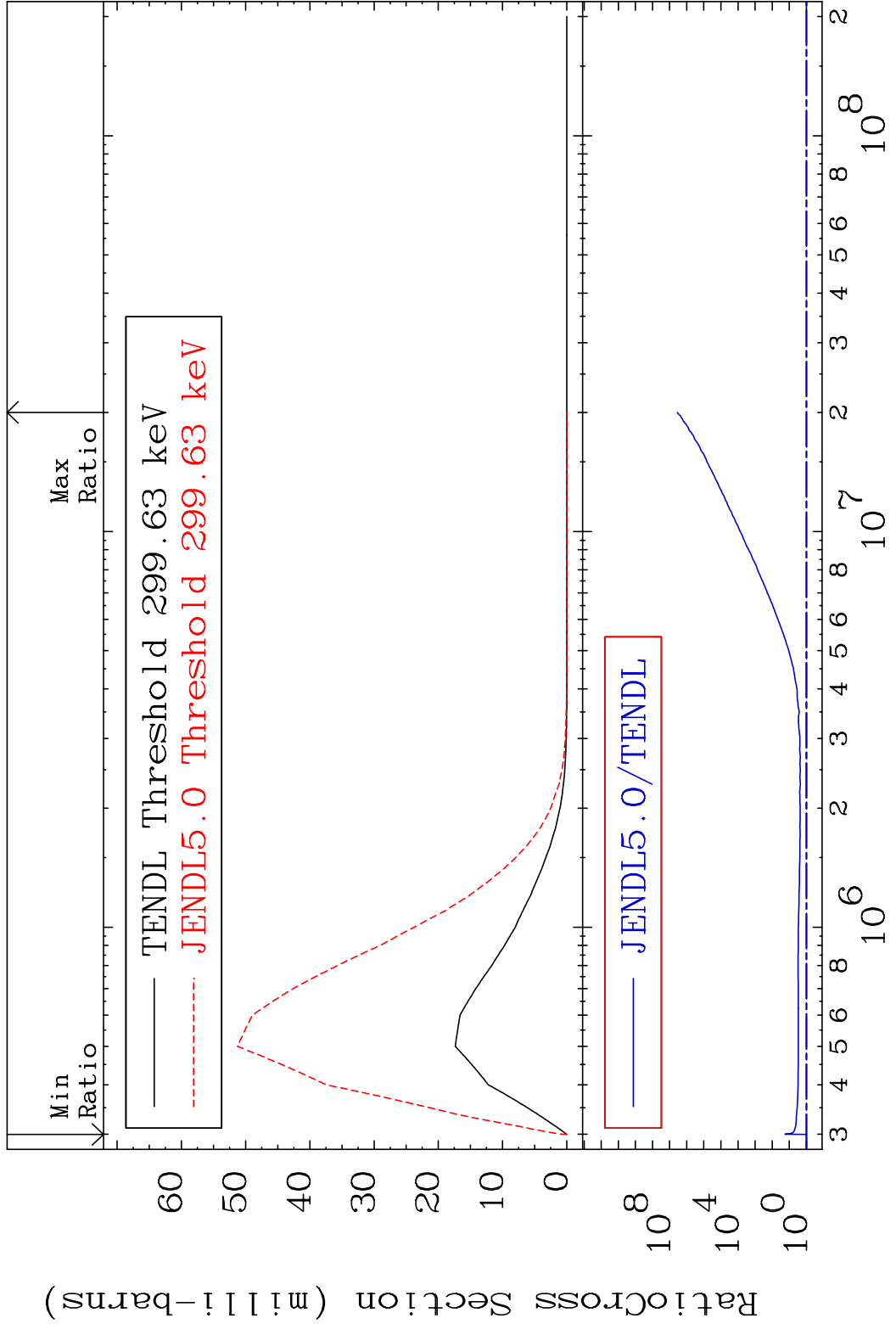


MAT 9349 MT= 73 (n, n') Level 93-Np-238
 Cross Section -100.0 To 9999. %

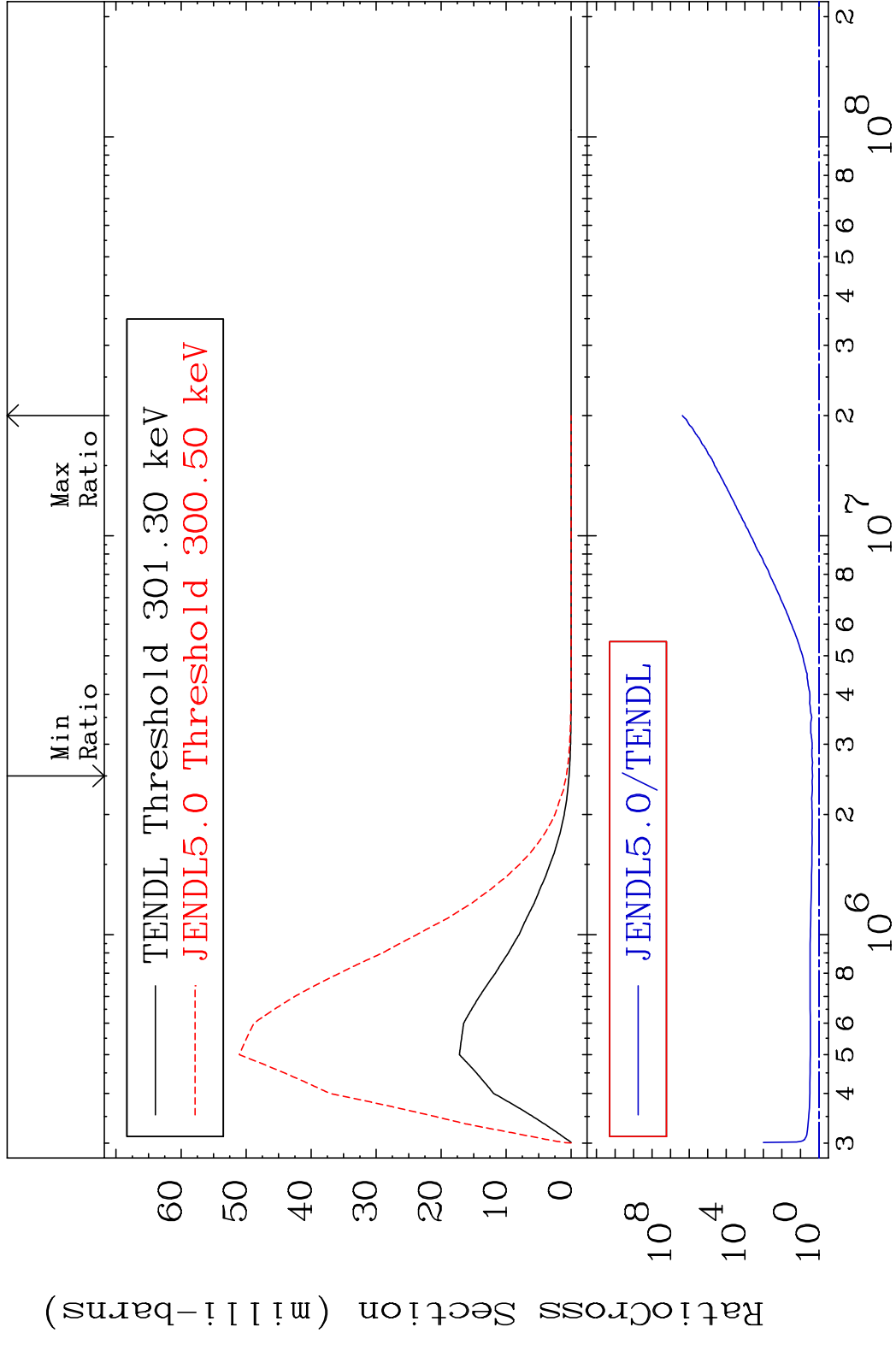


30 Incident Energy (eV) 93-Np-238

MAT 9349 MT= 74 (n, n') Level 93-Np-238
 Cross Section 0.000 To 9999. %



MAT 9349 MT= 75 (n, n') Level 93-Np-238
 Cross Section 122.1 To 9999. %

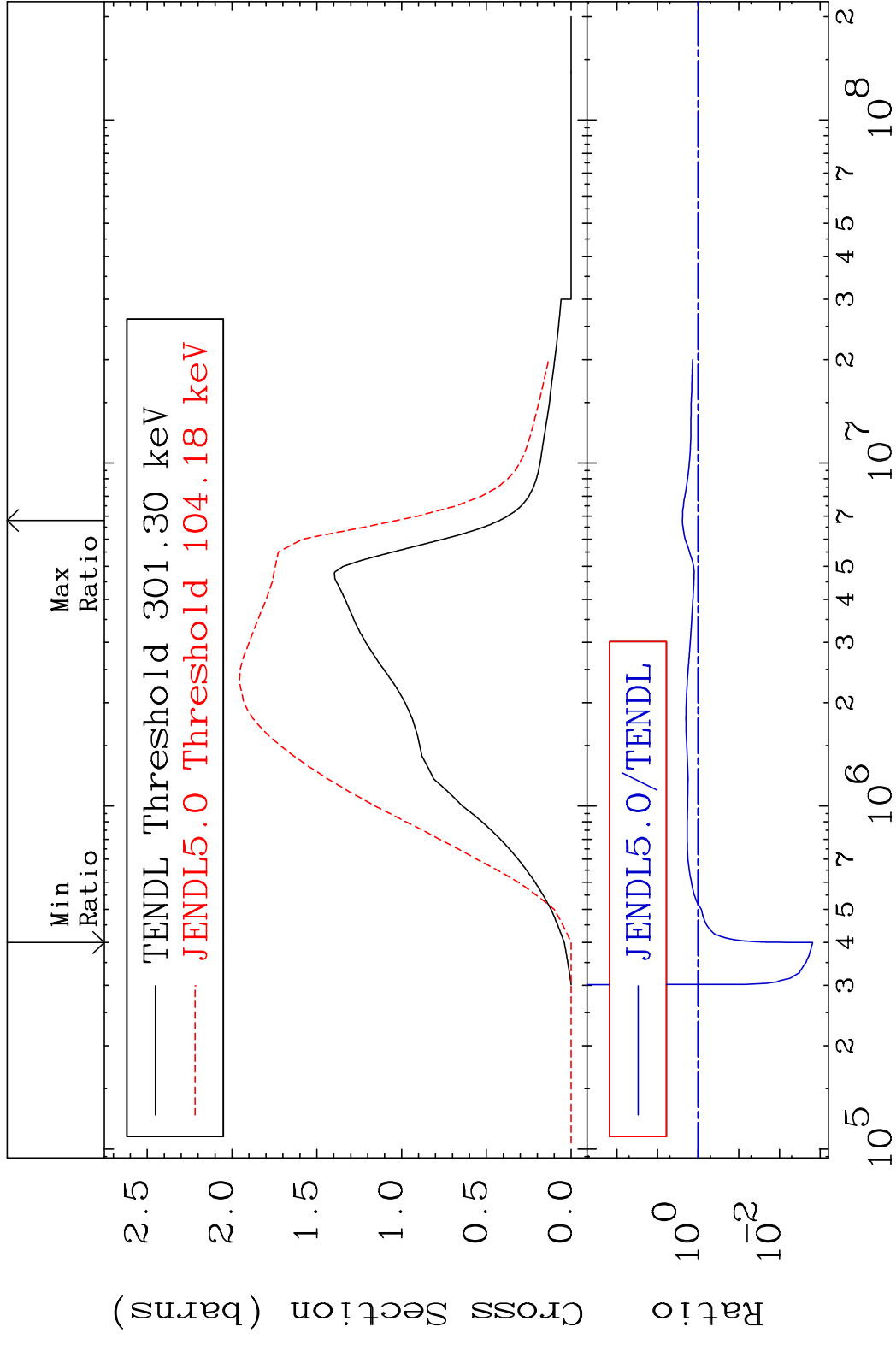


MAT 9349

(n, n') Continuum

93-Np-238

Cross Section -99.85 To 144.7 %



33

Incident Energy (eV)

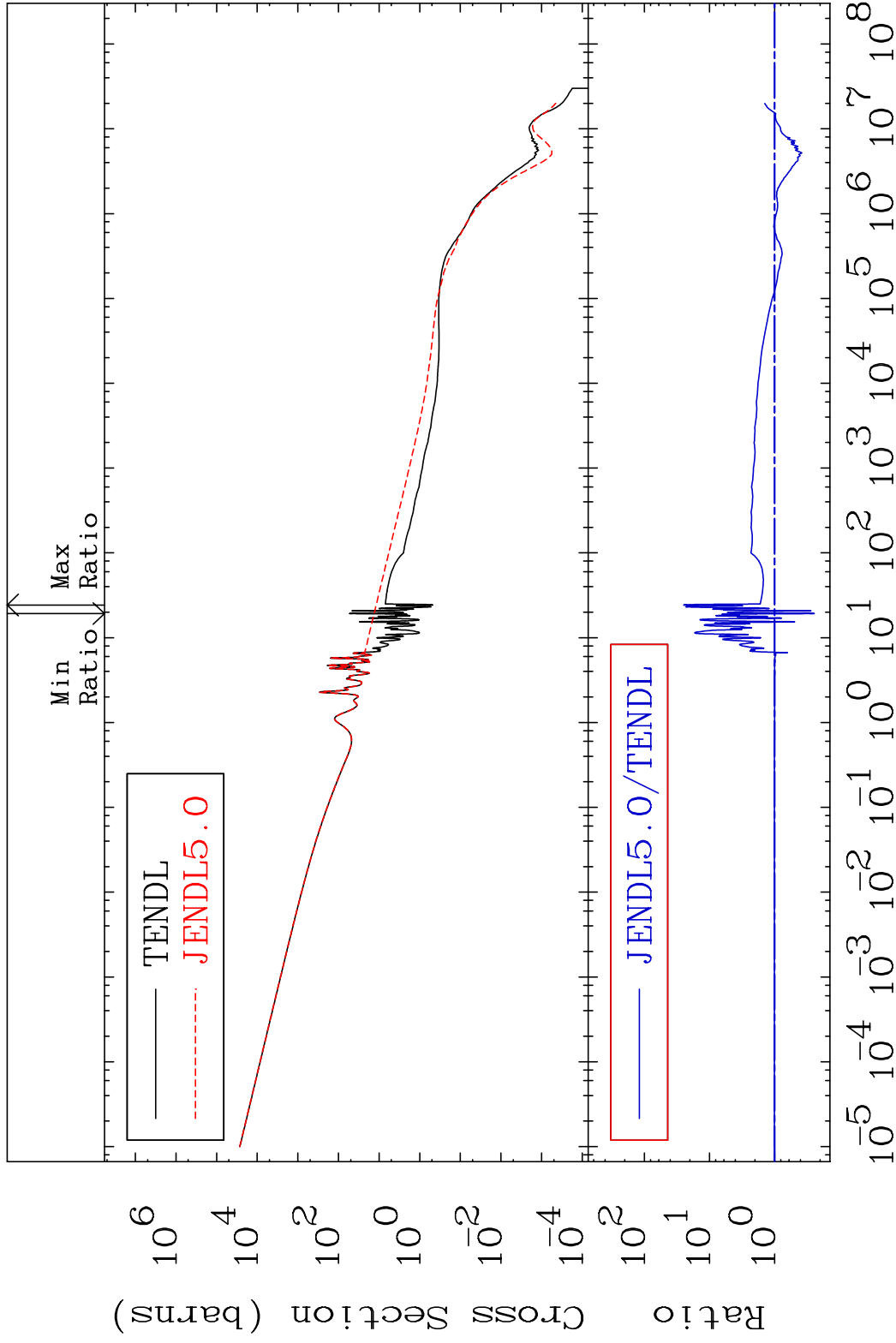
93-Np-238

MAT 9349

(n, γ)

93-Np-238

Cross Section -75.28 To 2392. %



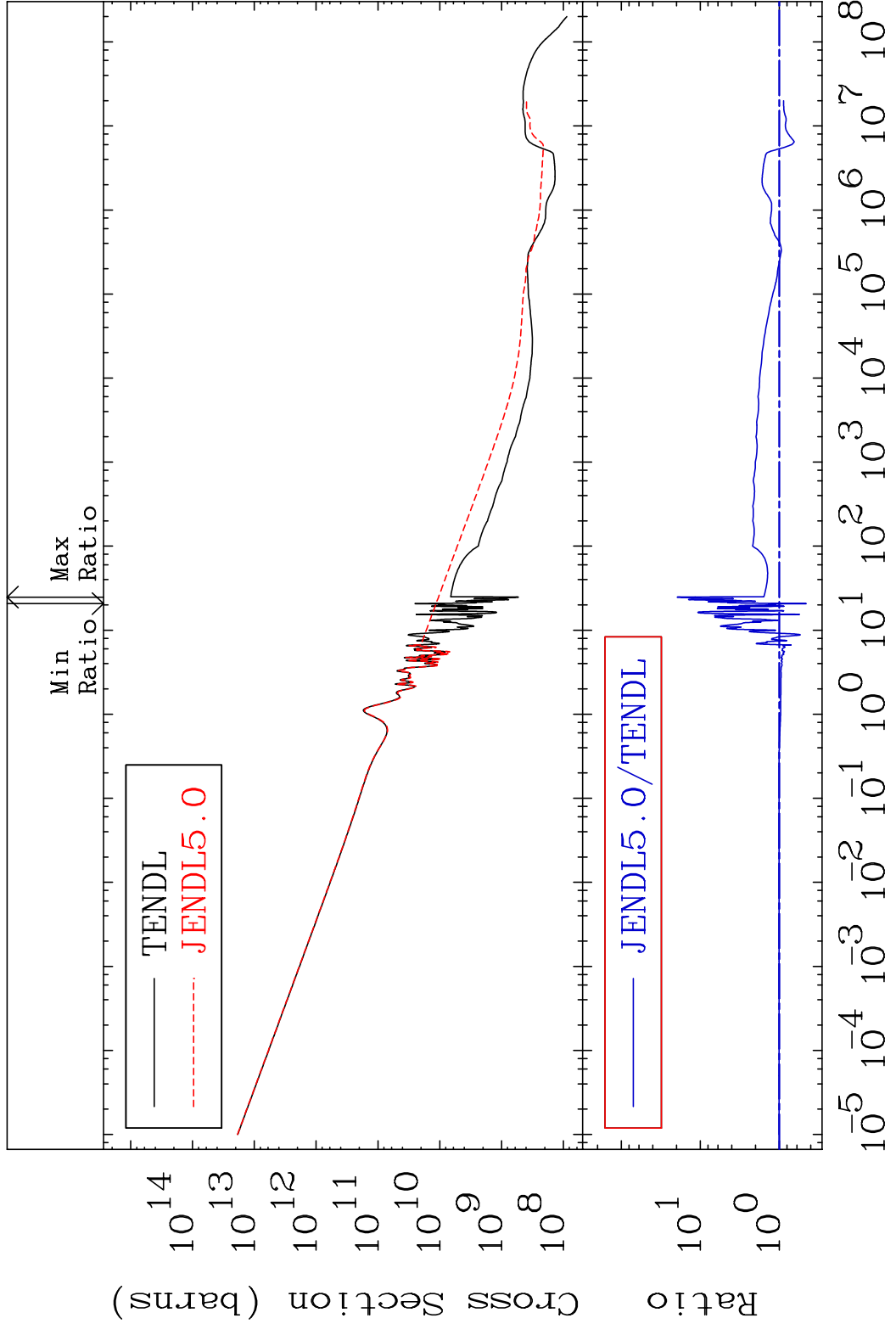
34

Incident Energy (eV)

93-Np-238

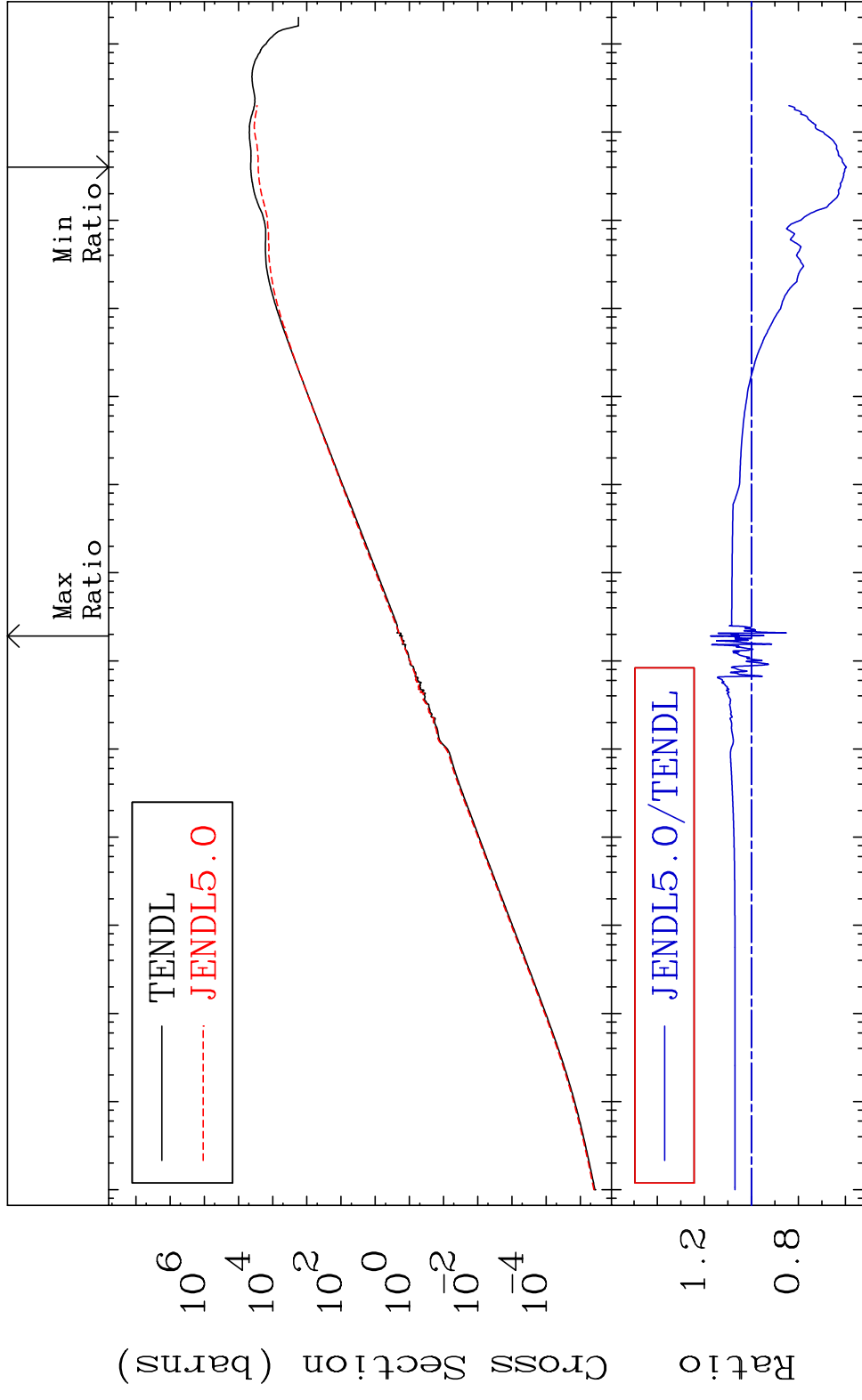
MAT 9349

Kerma total (eV-barns) 93-Np-238
Cross Section -54.52 To 1865. %

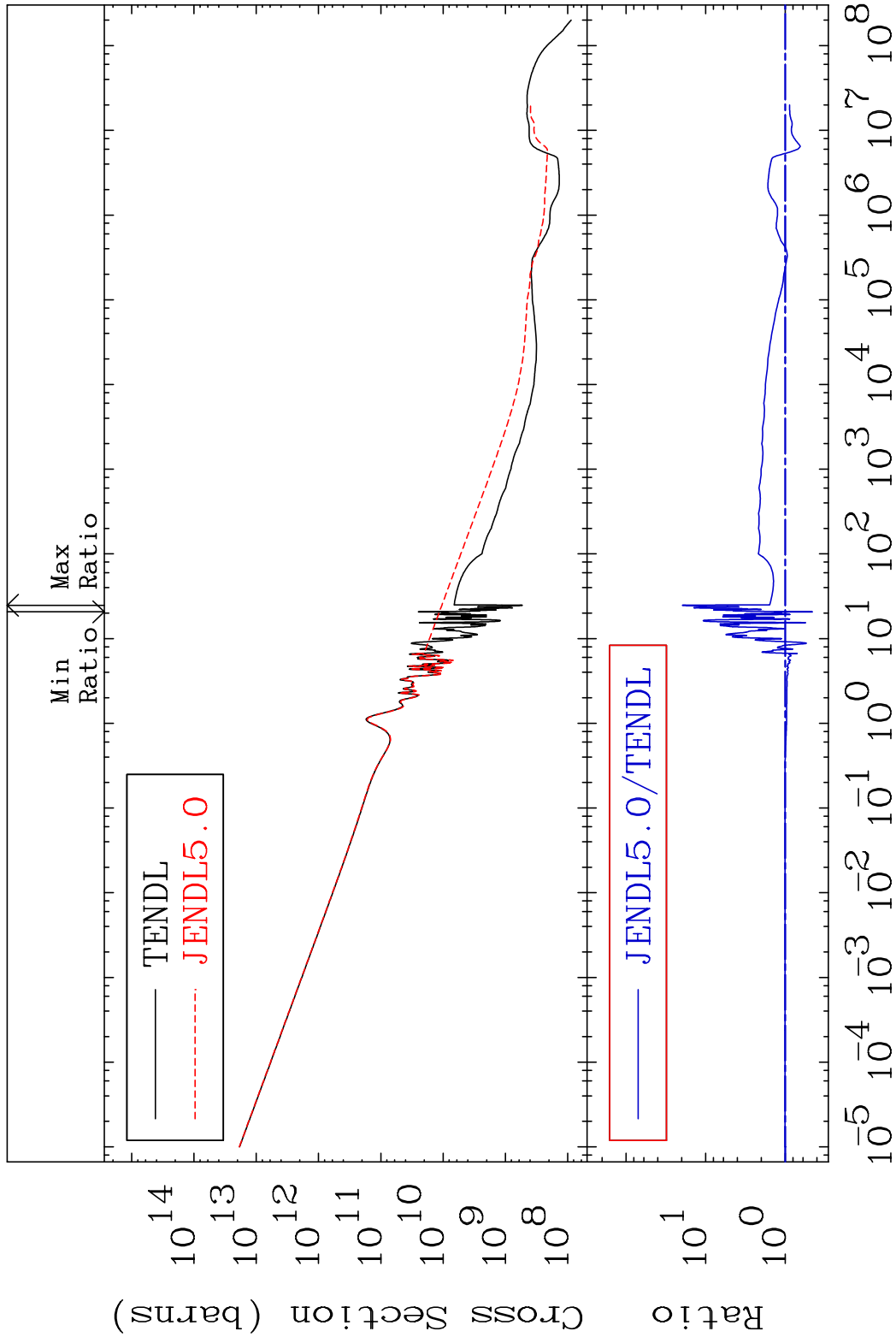


MAT 9349

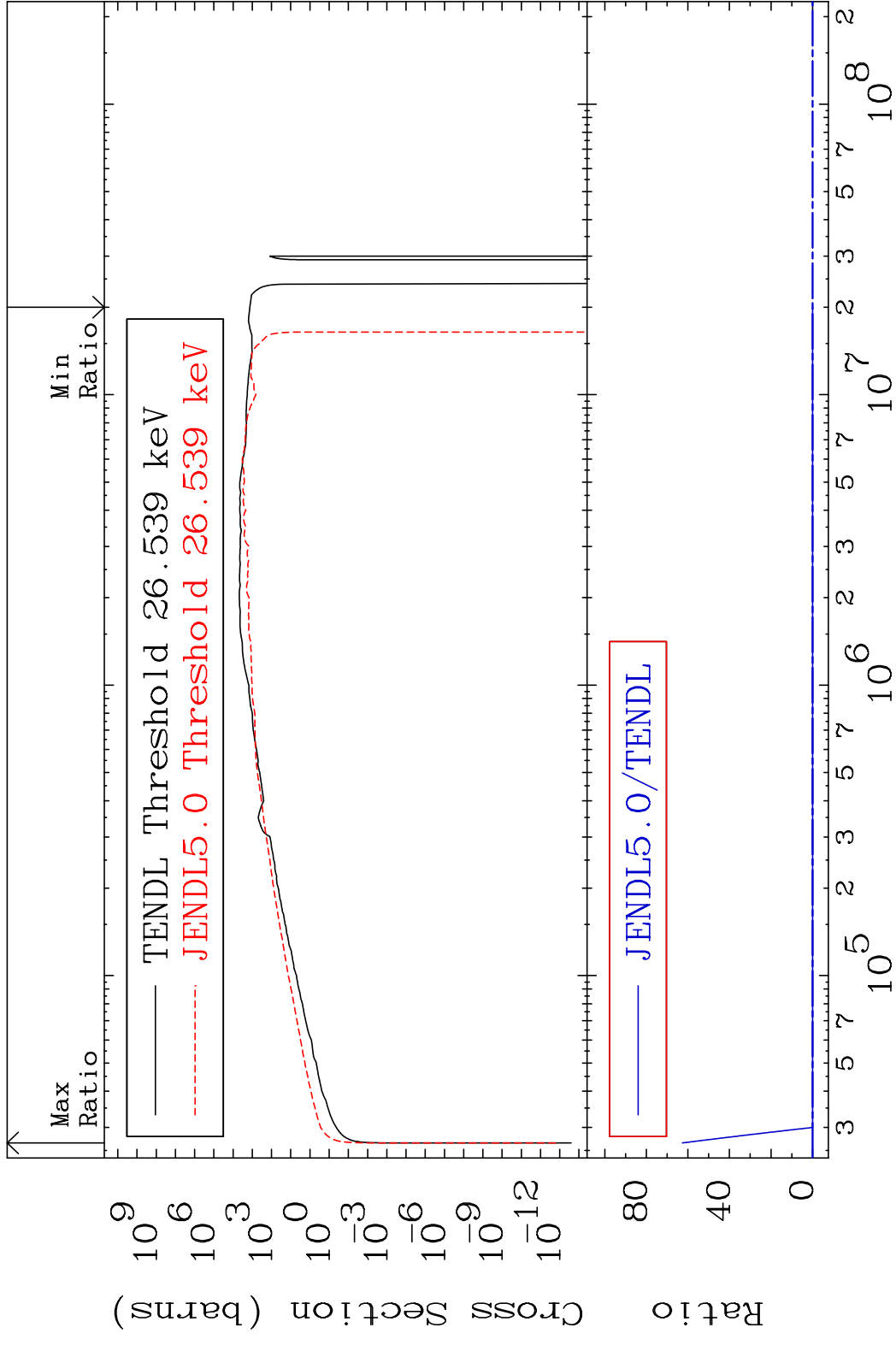
Kerma elastic Cross Section -40.40 To 17.31 %
93-Np-238



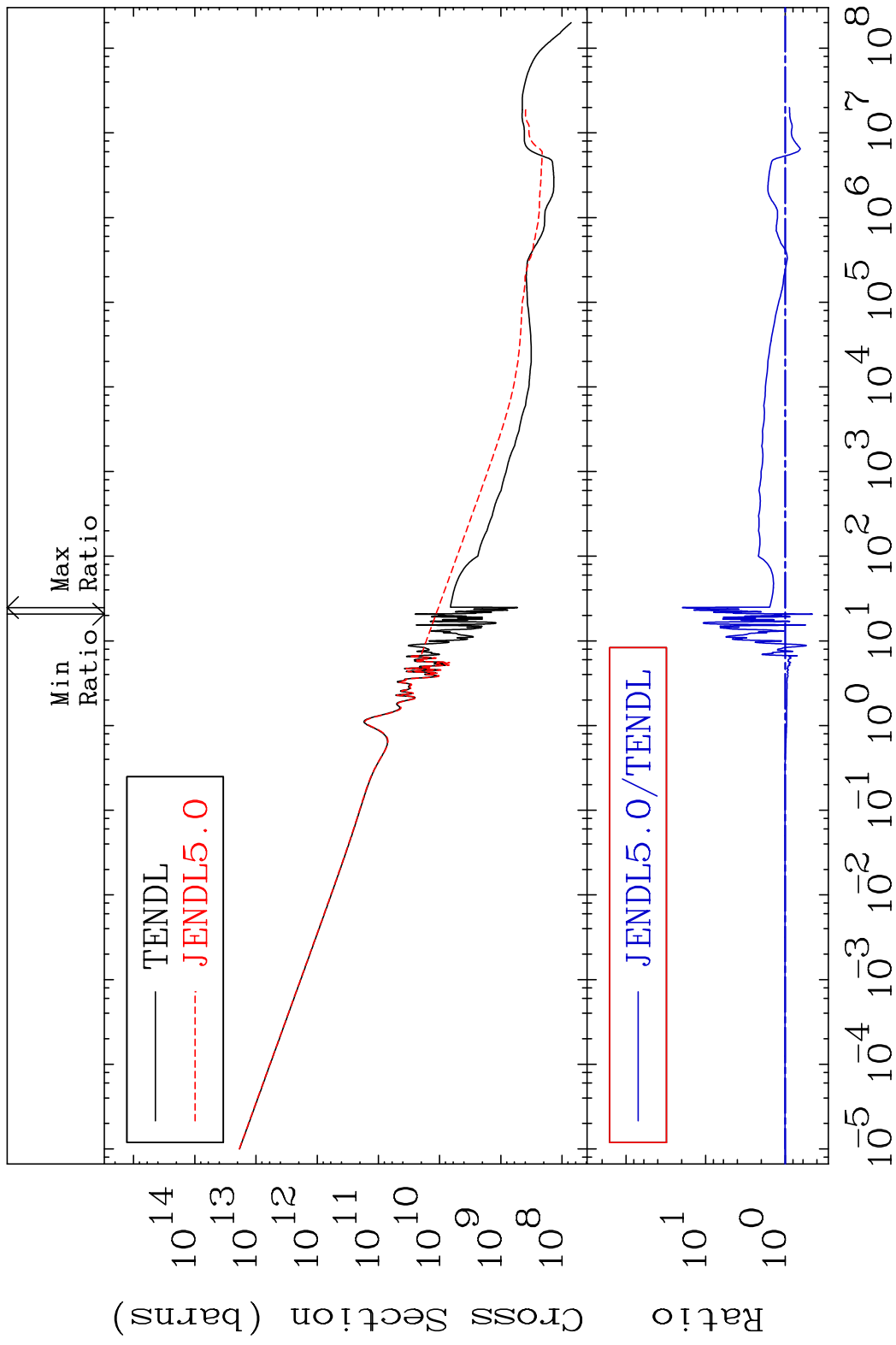
MAT 9349 Kerma non-elastic (all but mt2) 93-Np-238
 Cross Section -54.52 To 1865. %



MAT 9349 Kerma inelastic (mt51-91) 93-Np-238
 Cross Section -116.8 To 9999. %

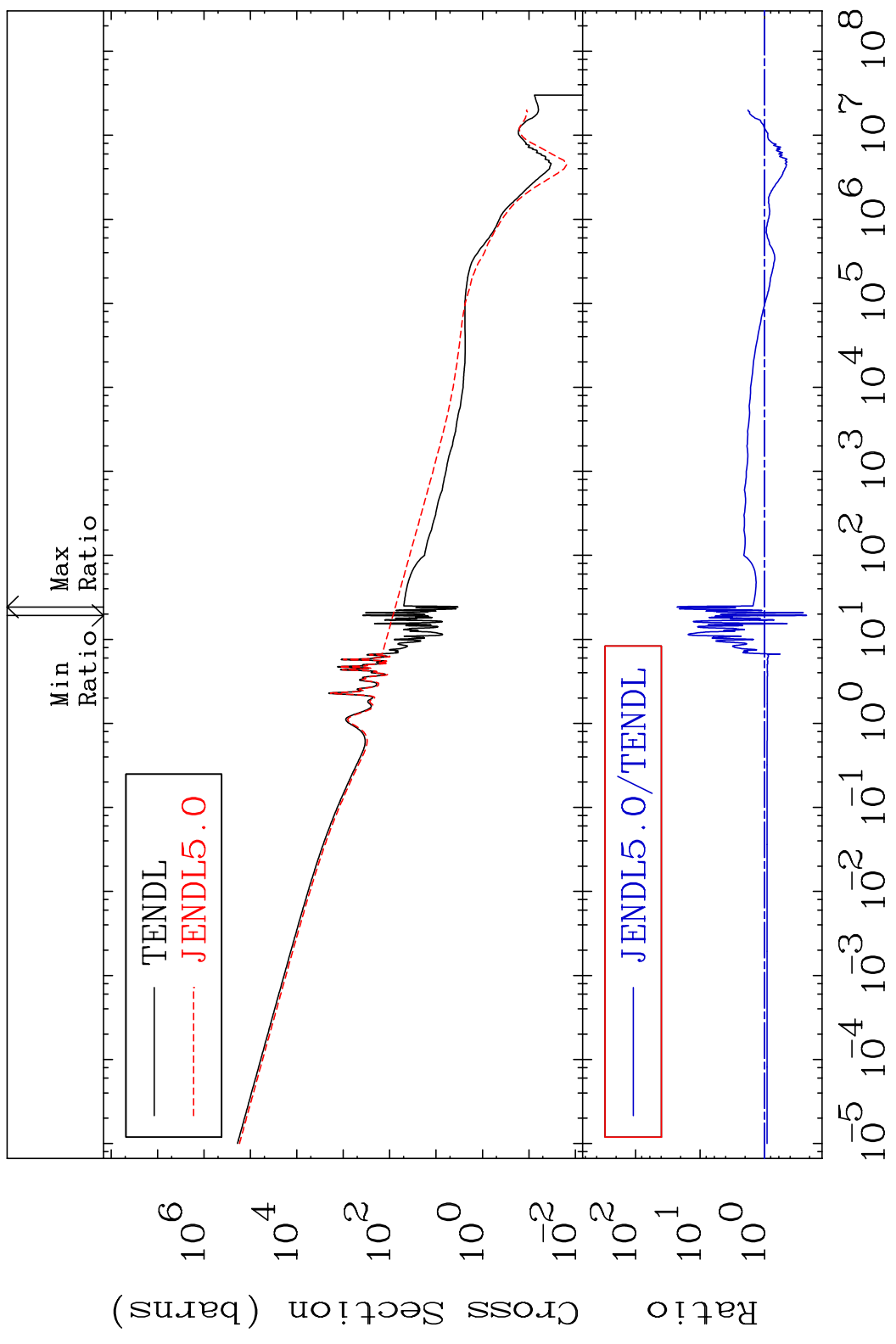


MAT 9349 Kerma fission (mt18 or mt19-20-21-38) 93-Np-238
 Cross Section -54.52 To 1865. %



MAT 9349

Kerma capture (mt102) 93-Np-238
Cross Section -77.61 To 2157. %

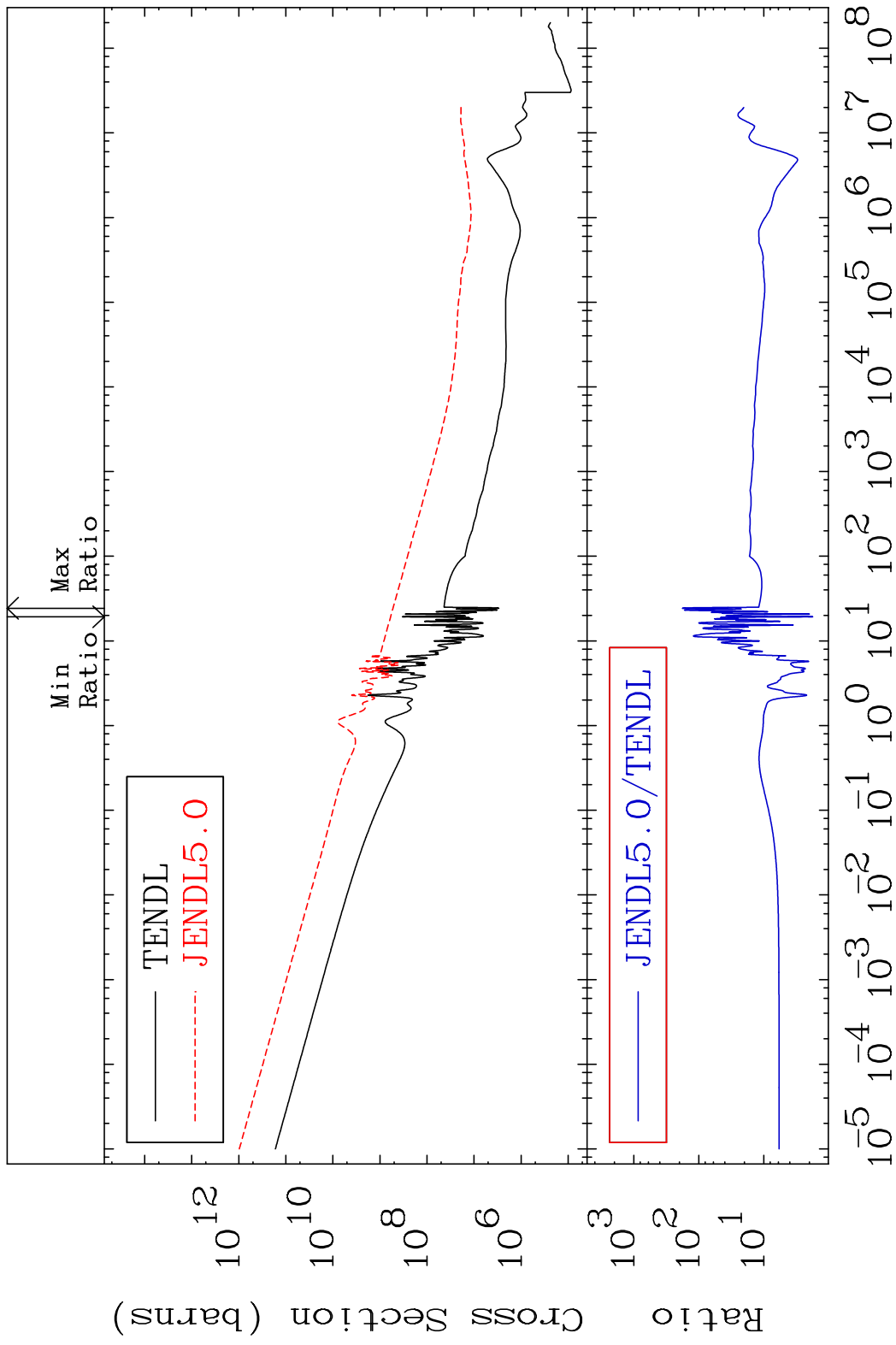


40

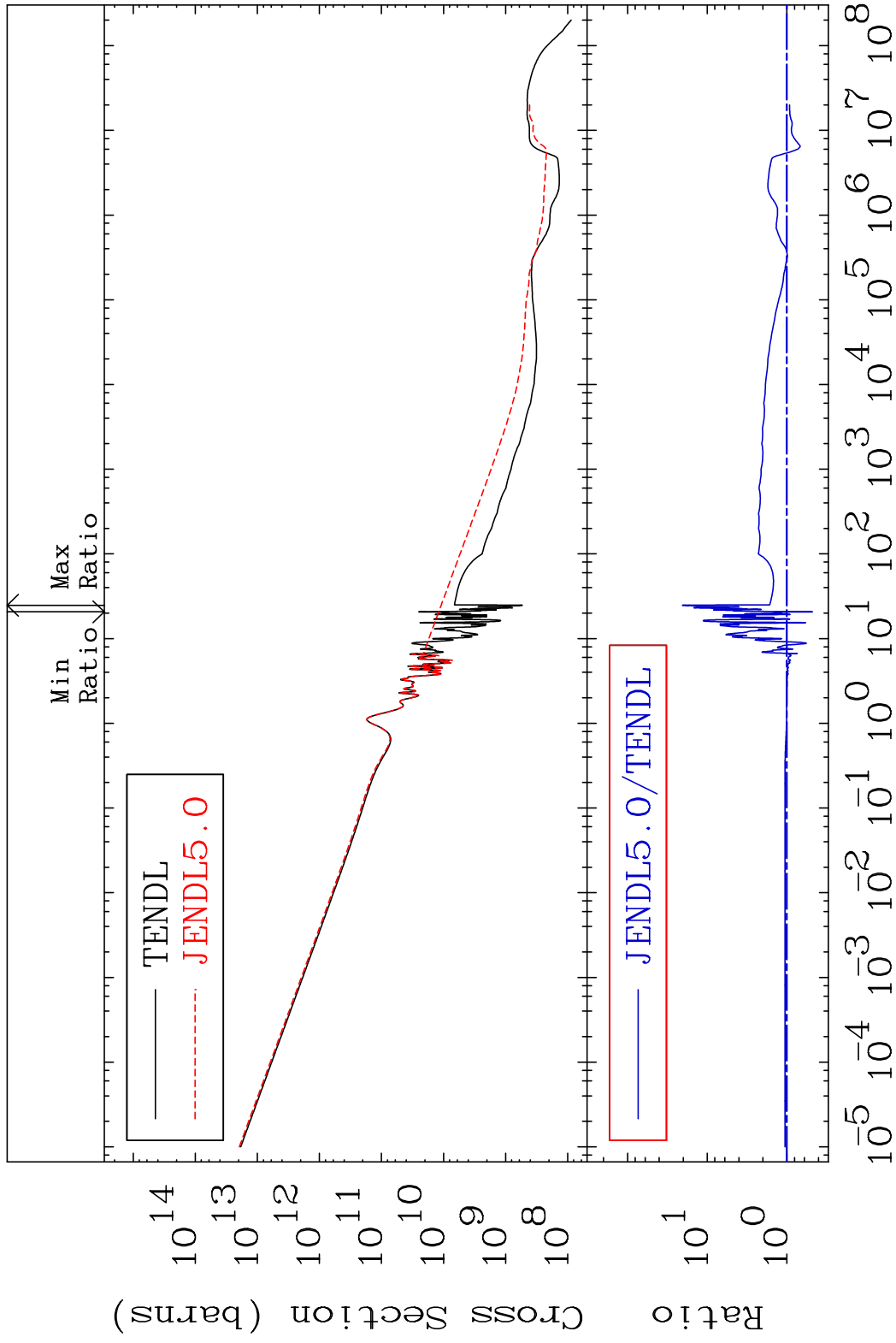
Incident Energy (eV)

93-Np-238

MAT 9349 Total photon (eV-barns) 93-Np-238
 Cross Section 78.31 To 9999. %



MAT 9349 Total kinematic kerma (high limit) 93-Np-238
 Cross Section -52.56 To 1950. %

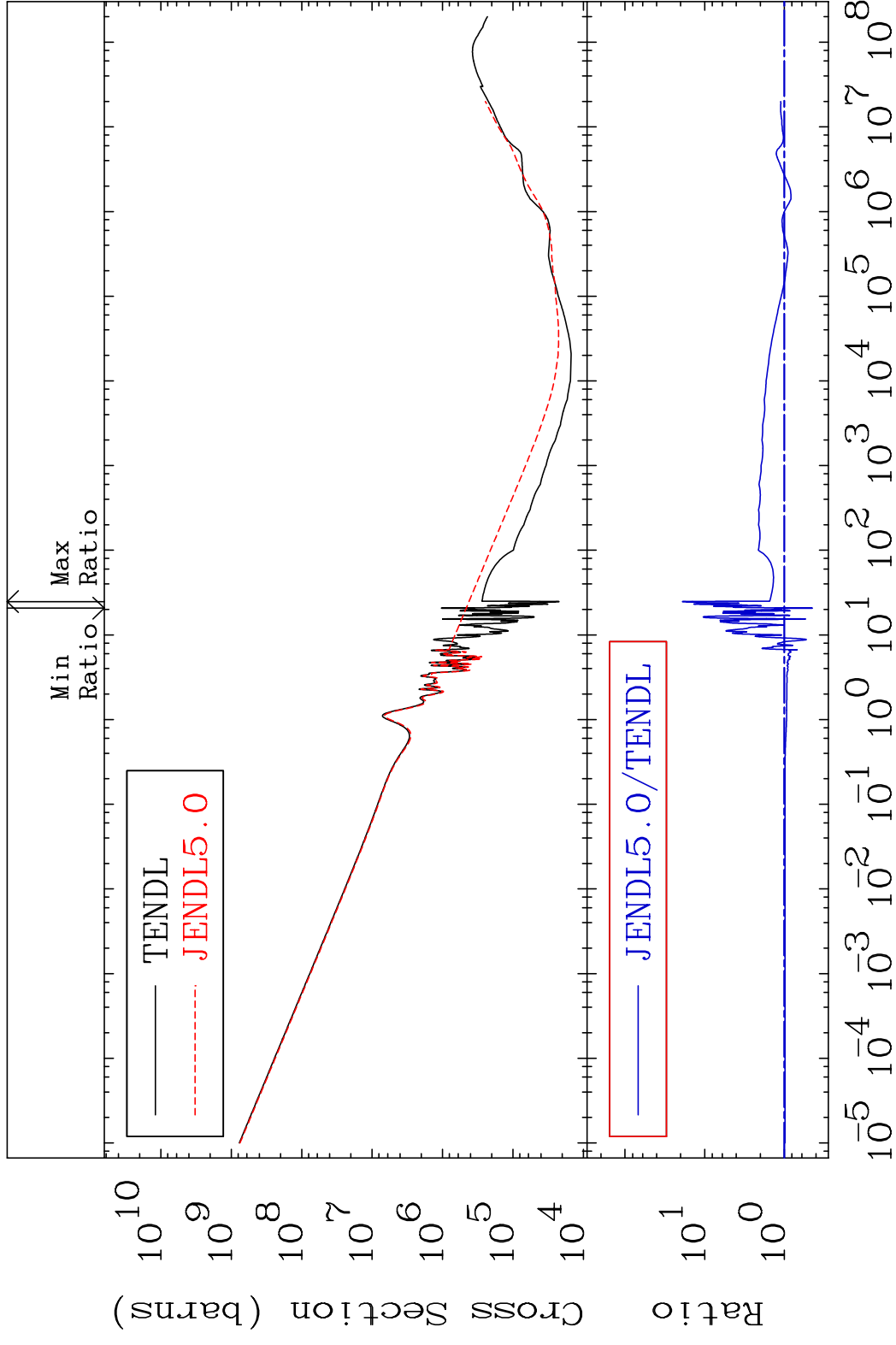


MAT 9349

Dpa total (eV-barns)

93-Np-238

Cross Section -55.92 To 1804. %

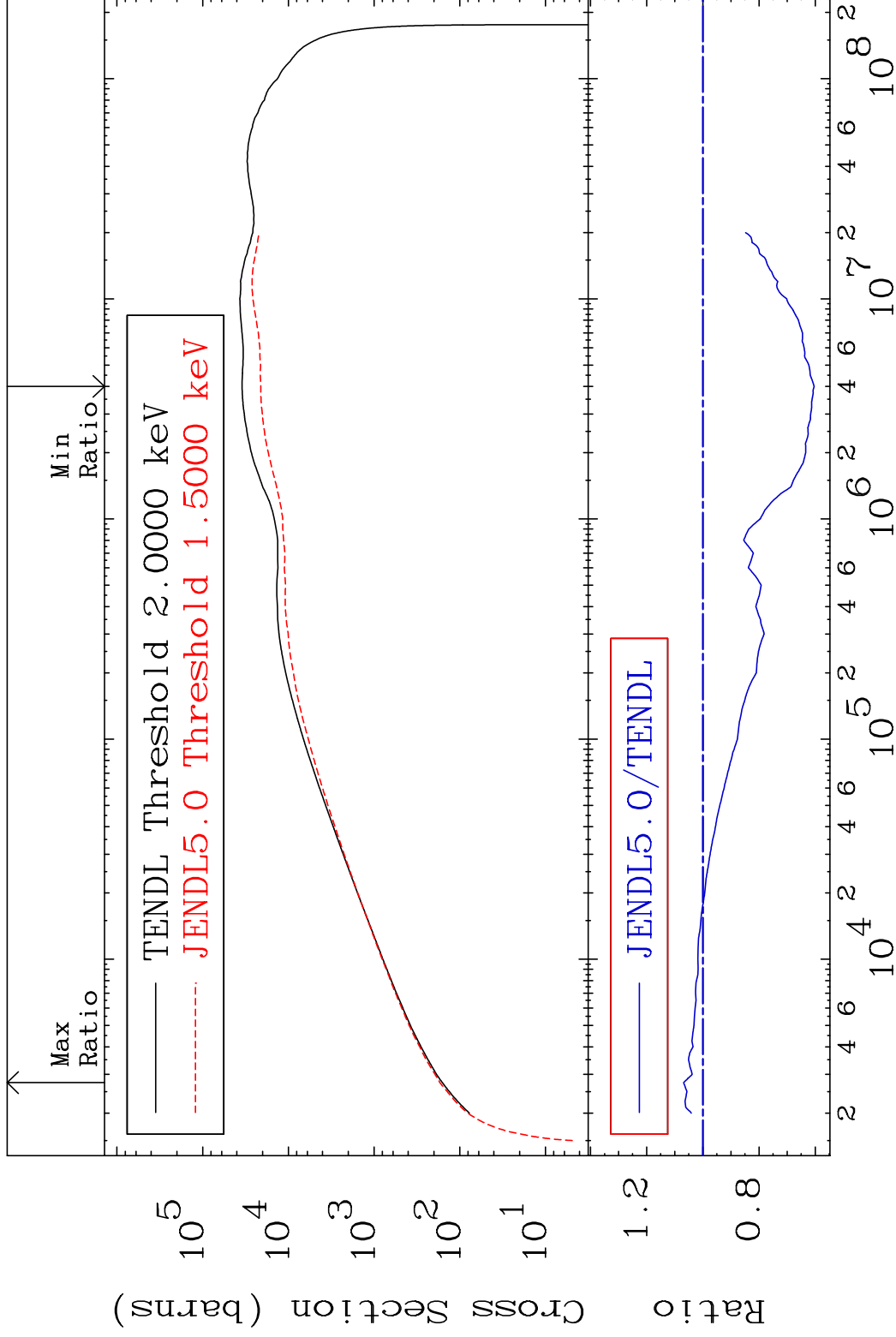


MAT 9349

Dpa elastic (mt2)

93-Np-238

Cross Section -39.61 To 6.828 %

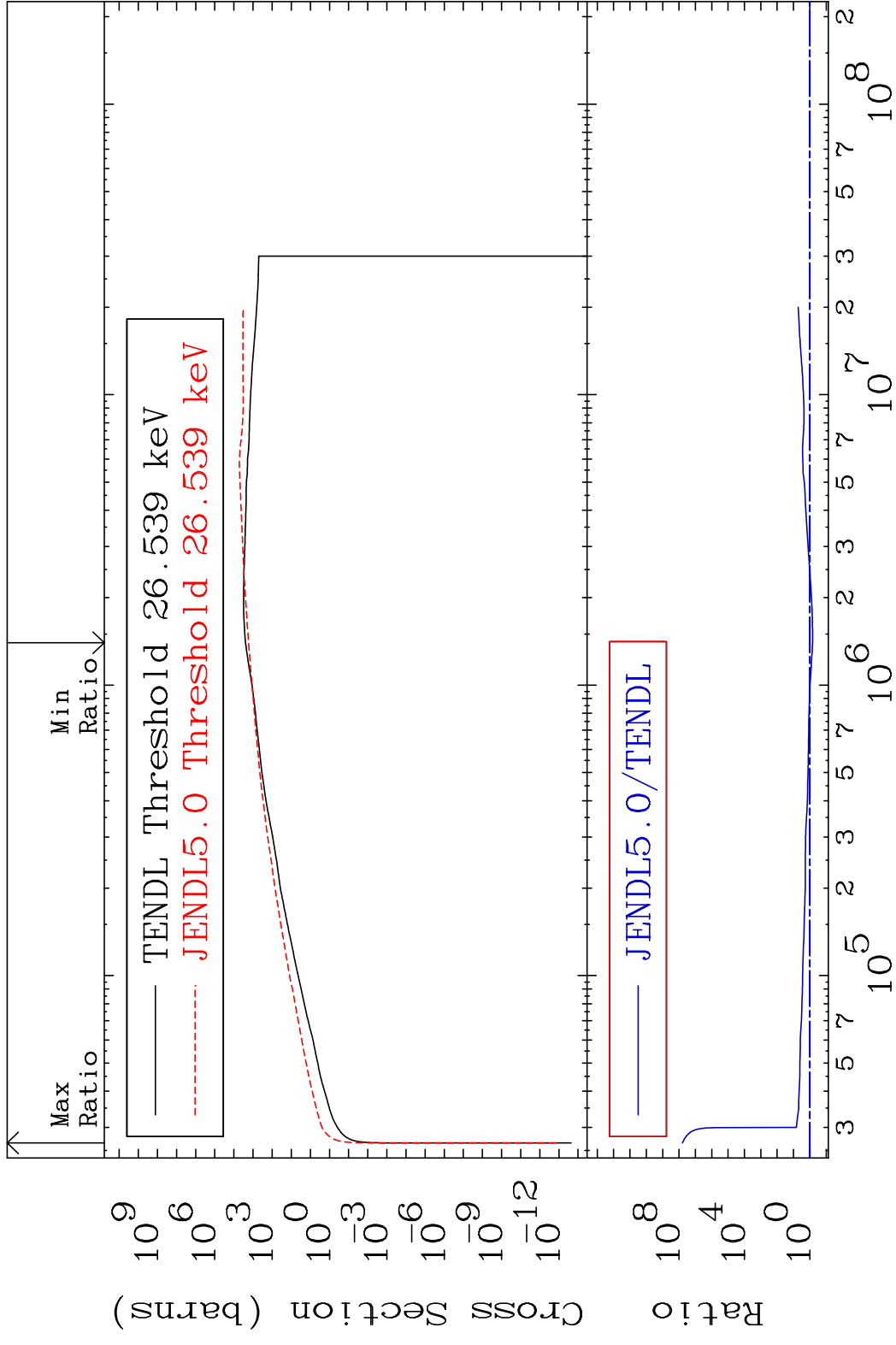


44

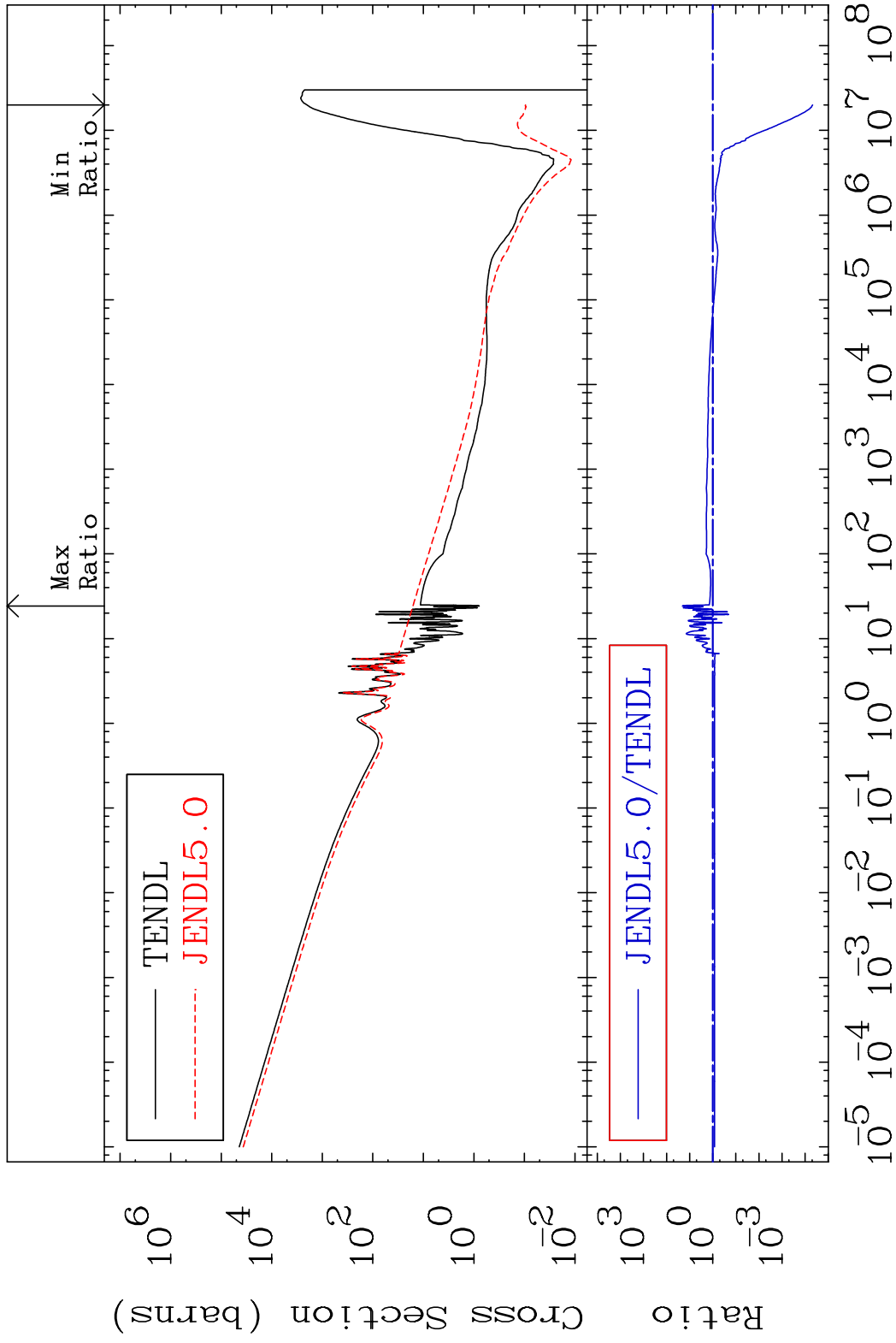
Incident Energy (eV)

93-Np-238

MAT 9349 Dpa inelastic (mt51-91) 93-Np-238
 Cross Section -31.79 To 9999. %



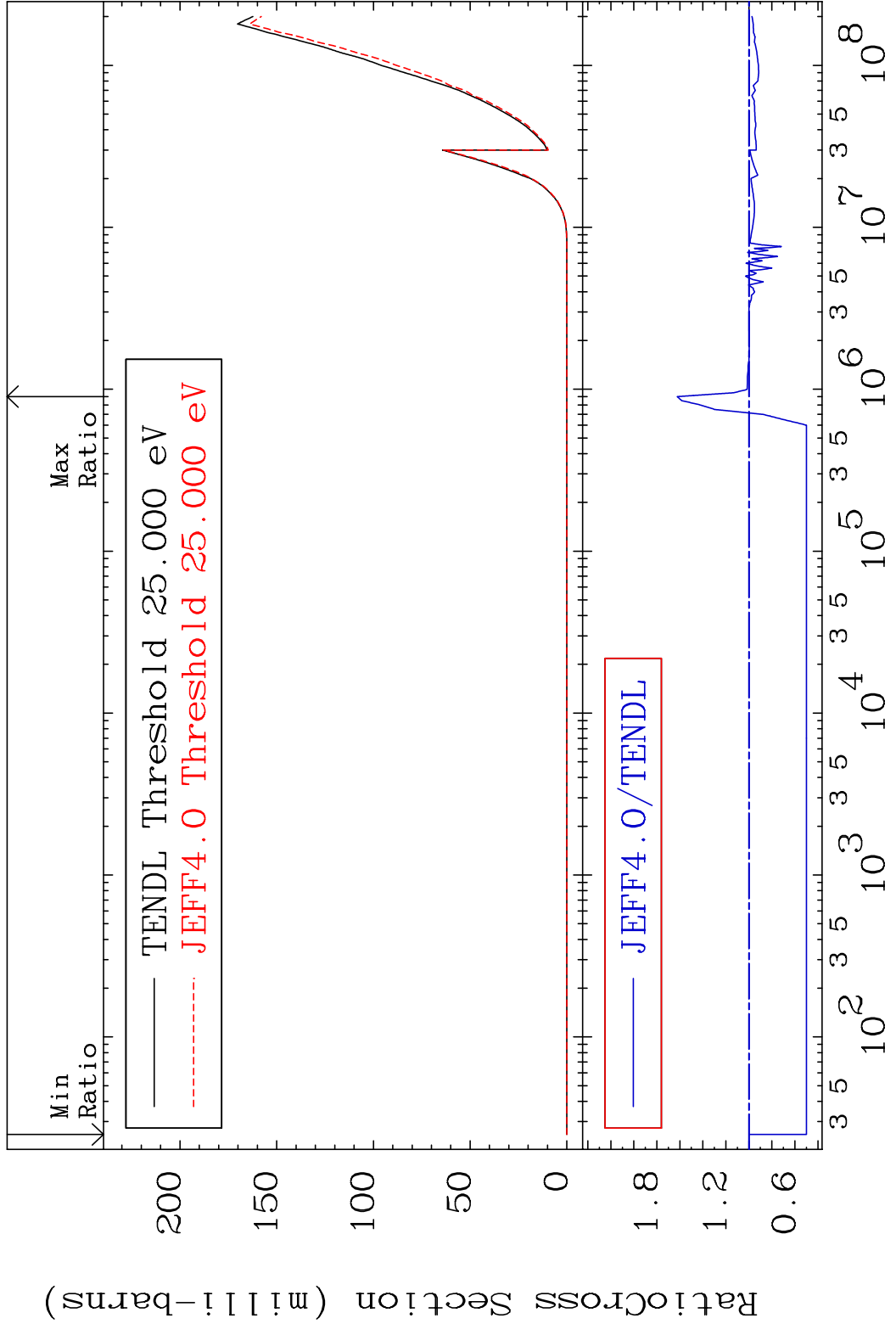
MAT 9349 Dpa disappearance (mt102 -120) 93-Np-238
 Cross Section -100.0 To 1976. %



MAT 9349

Hydrogen Production
Cross Section

93-Np-238
-50.00 To 62.32 %

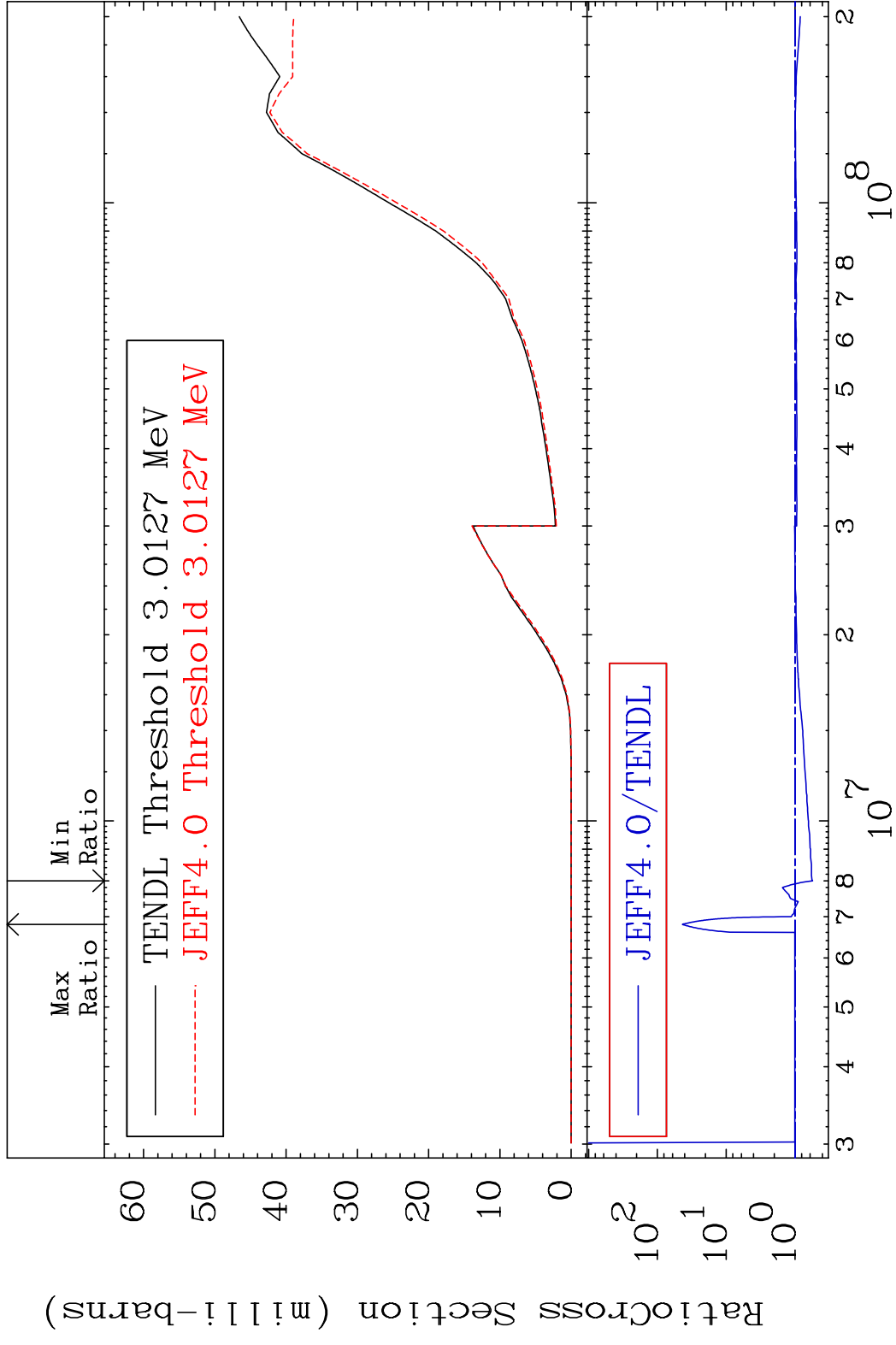


MAT 9349

Deuterium Production

93-Np-238

Cross Section -44.54 To 4231. %



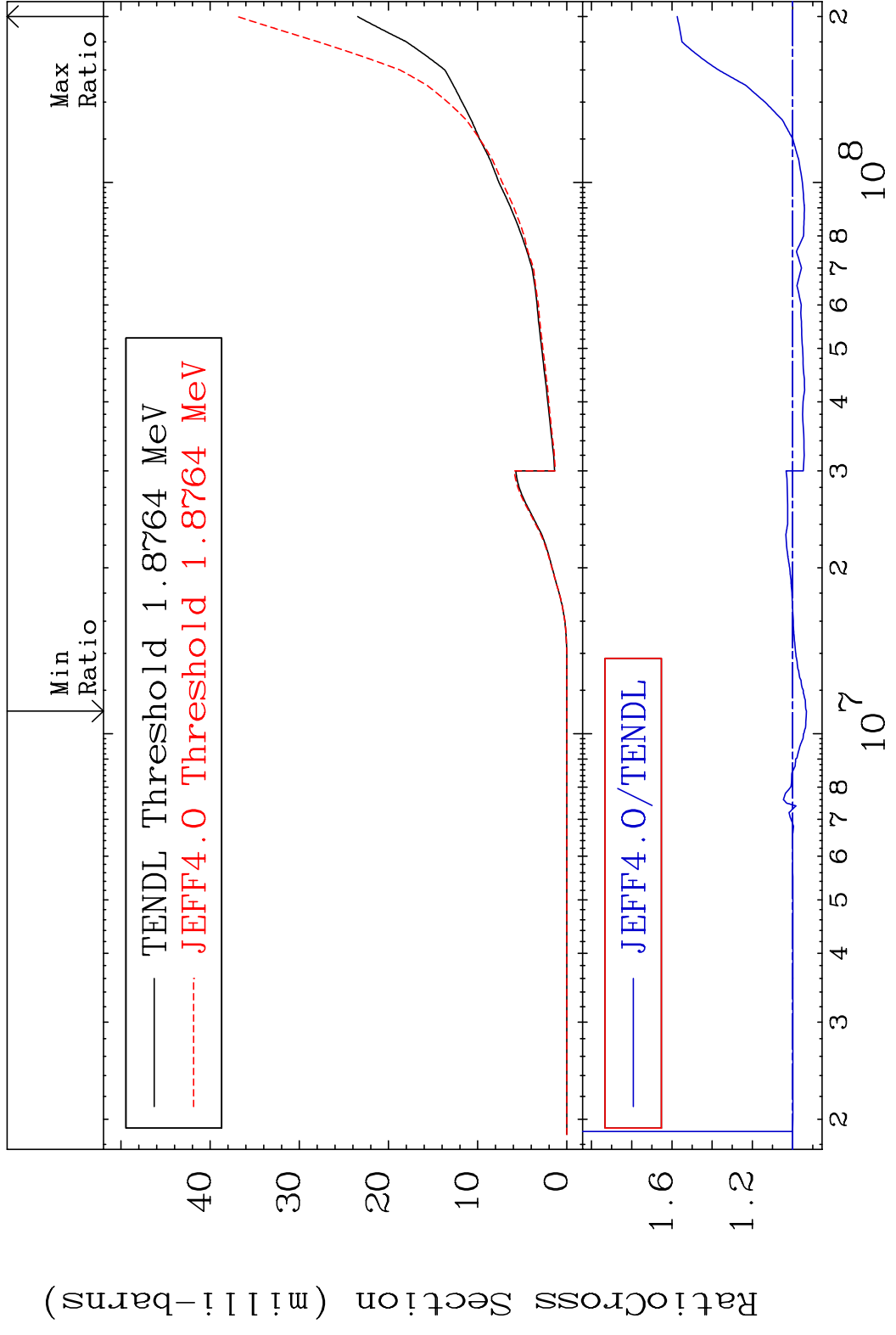
48

Incident Energy (eV)

93-Np-238

MAT 9349

Tritium Production $^{93}\text{Np-238}$
Cross Section -6.842 To 57.39 %



49

Incident Energy (eV)

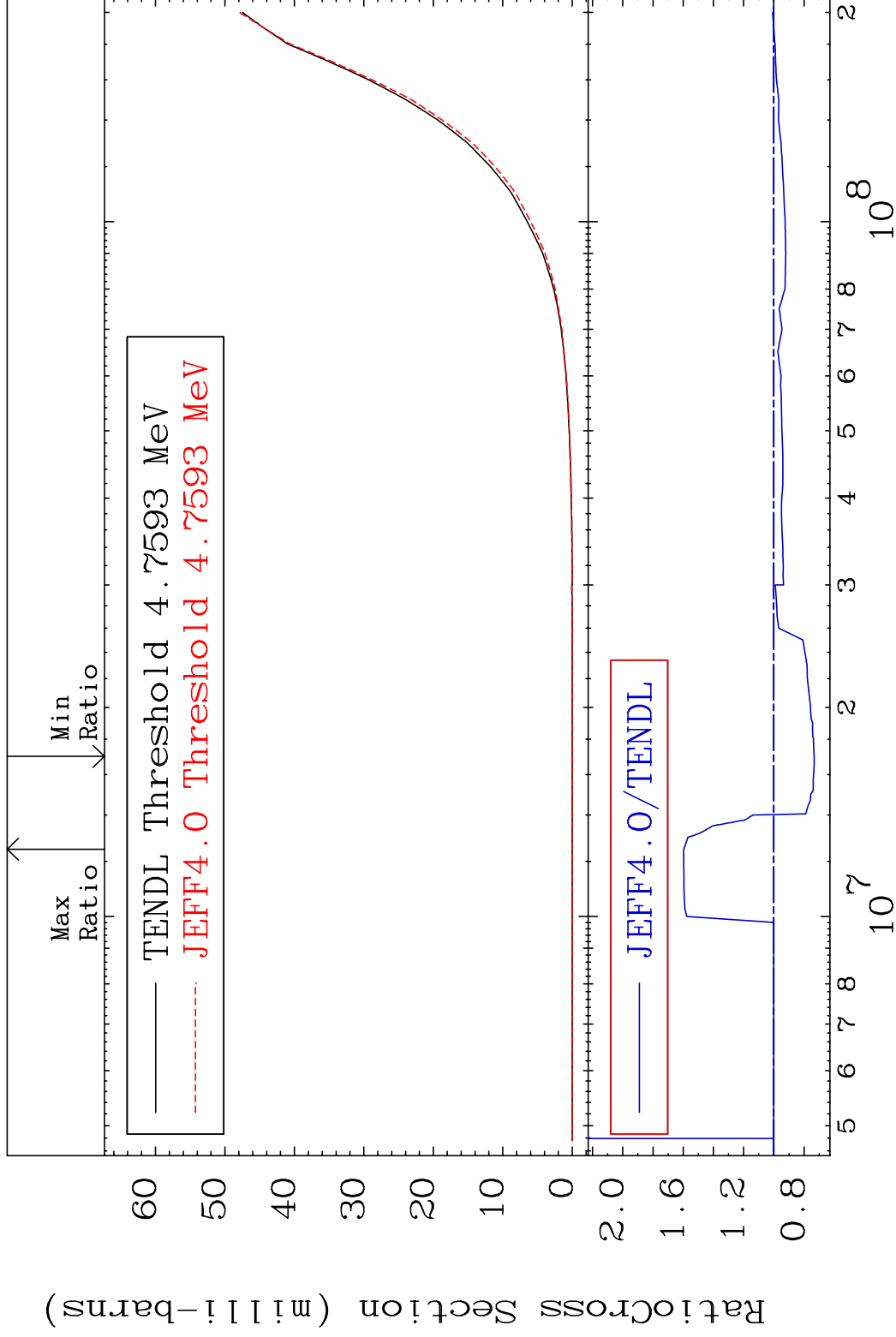
$^{93}\text{Np-238}$

MAT 9349

He-3 Production

93-Np-238

Cross Section -26.68 To 59.68 %



50

Incident Energy (eV)

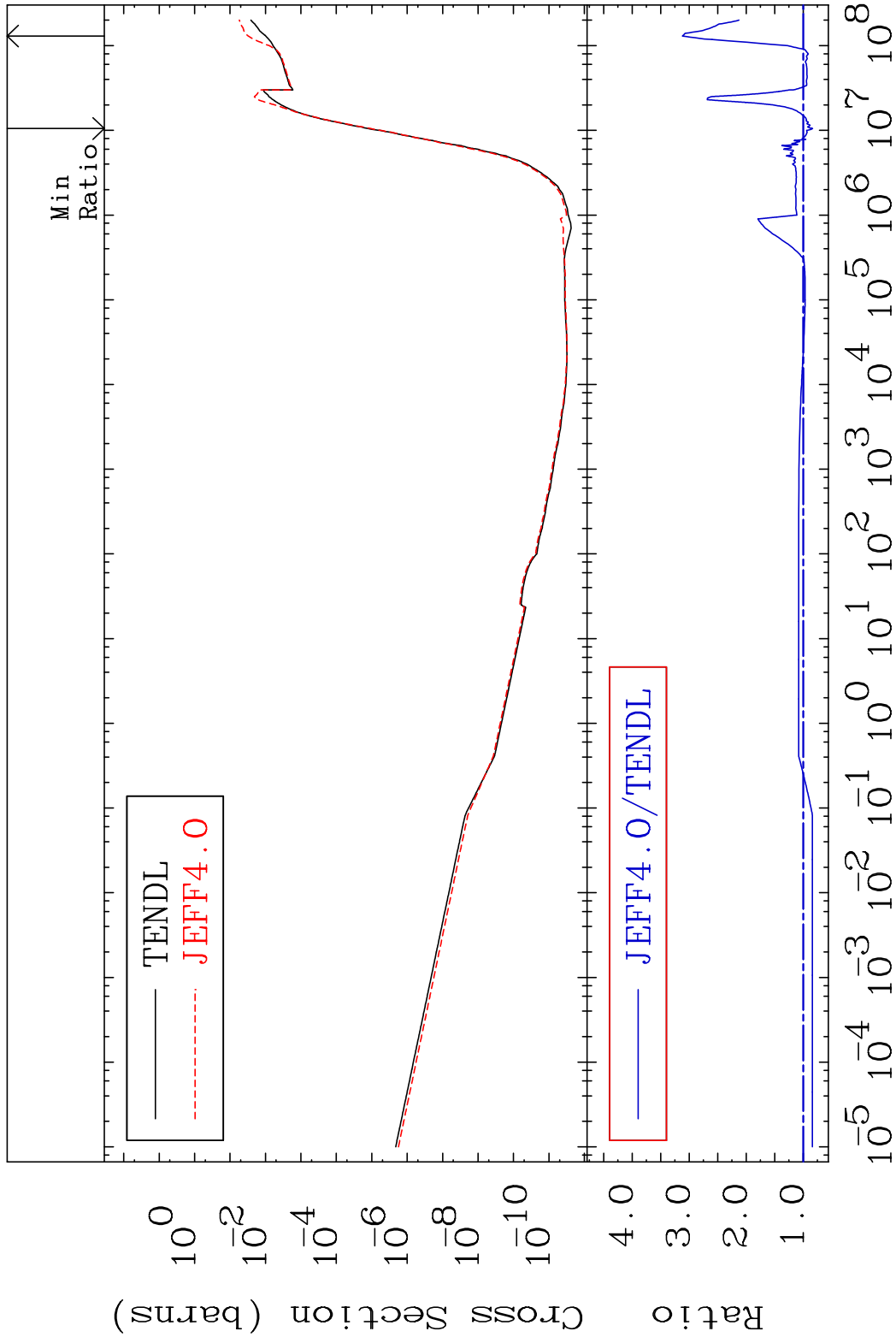
93-Np-238

MAT 9349

He-4 Production

93-Np-238

Cross Section -16.40 To 211.9 %



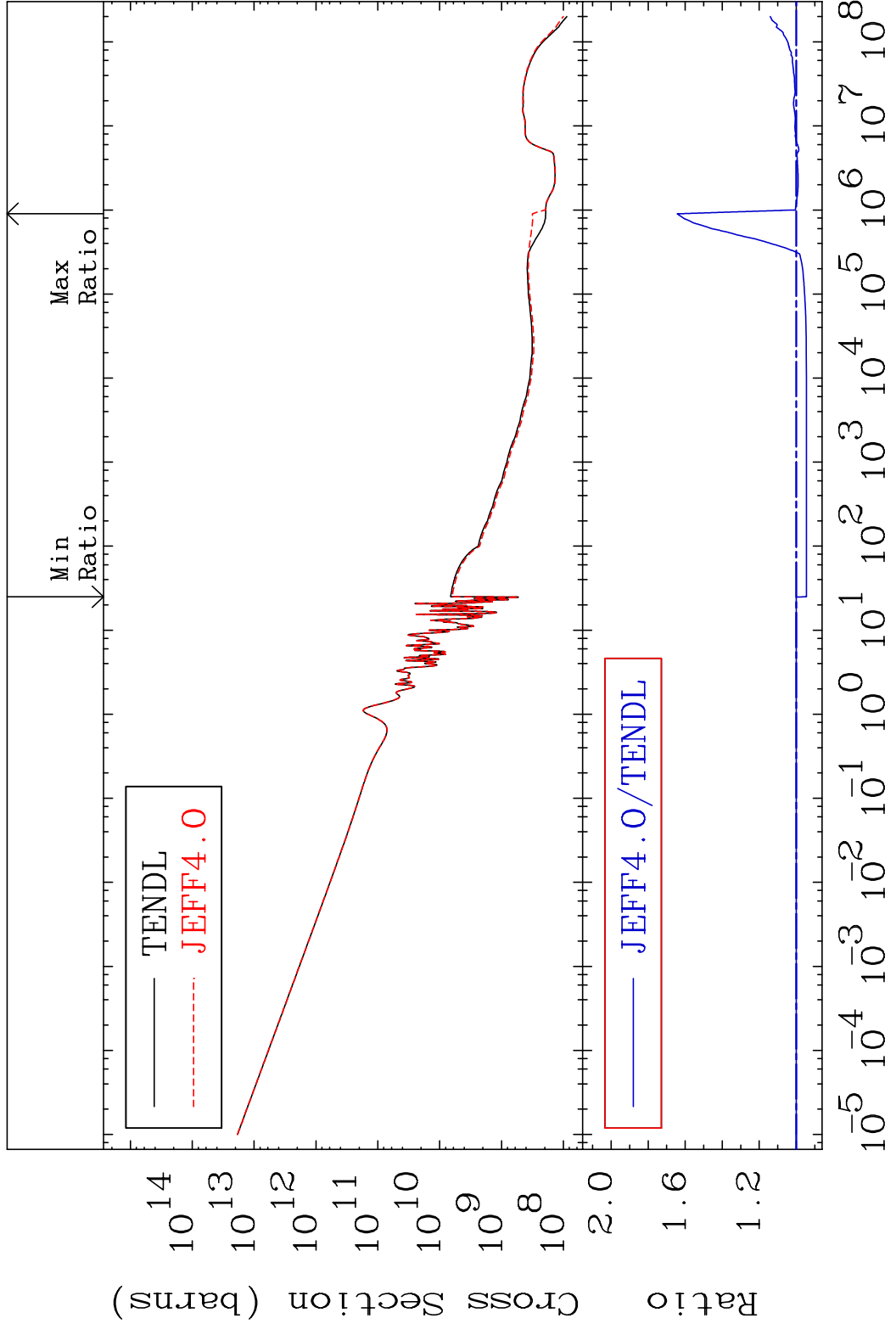
51

Incident Energy (eV)

93-Np-238

MAT 9349

Kerma total (eV-barns) 93-Np-238
Cross Section -5.482 To 64.32 %

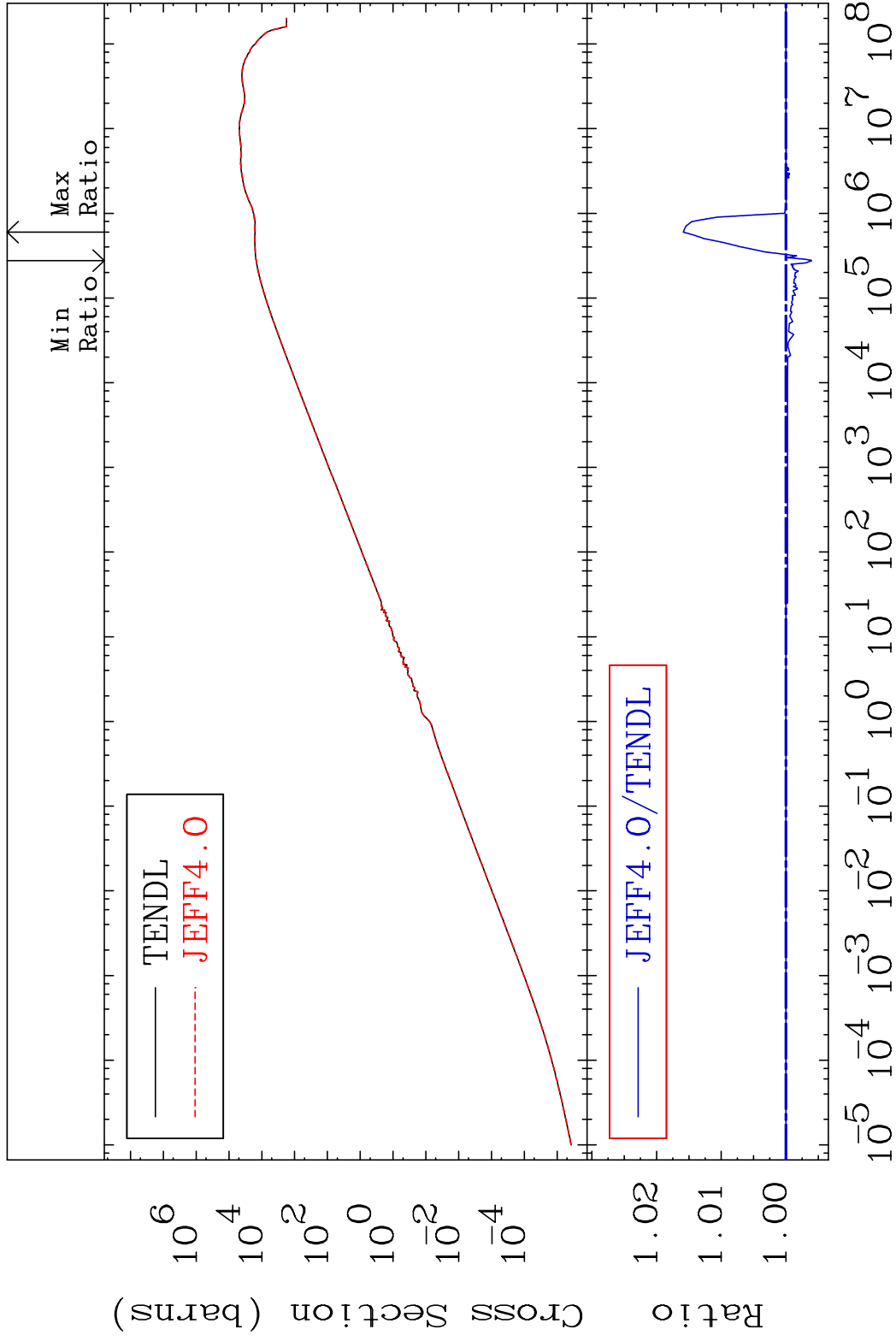


MAT 9349

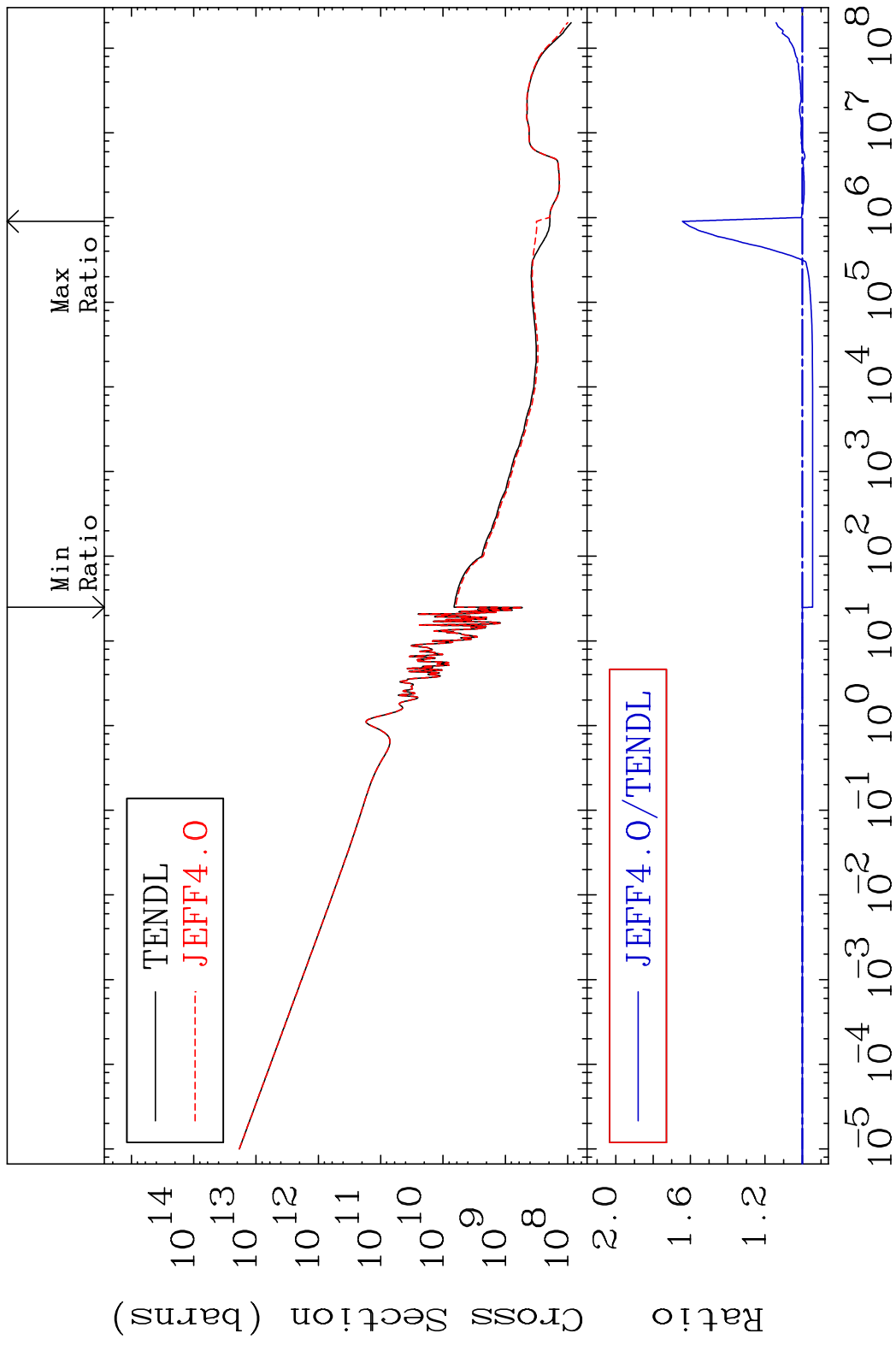
Kerma elastic

93-Np-238

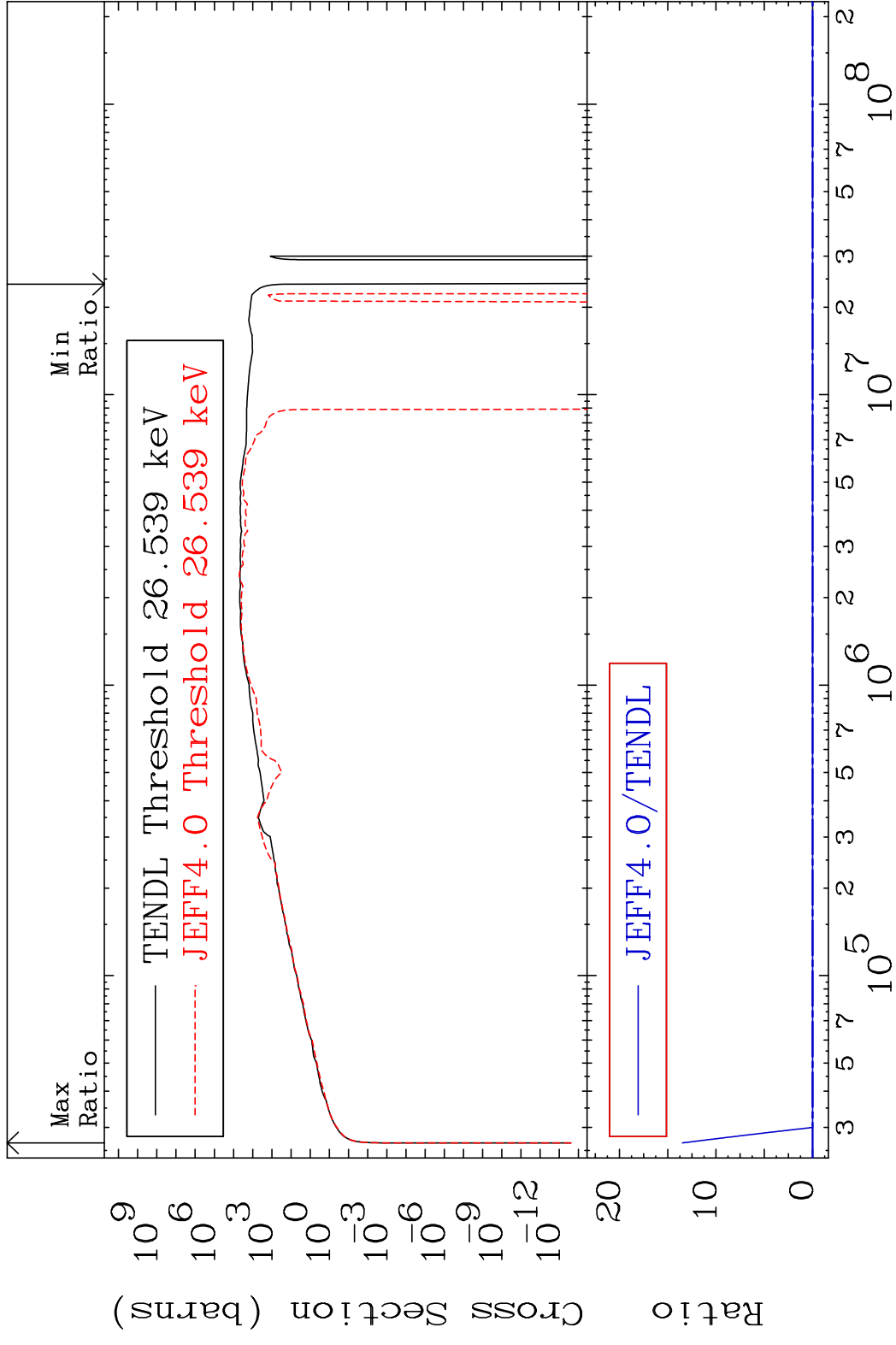
Cross Section -0.396 To 1.587 %



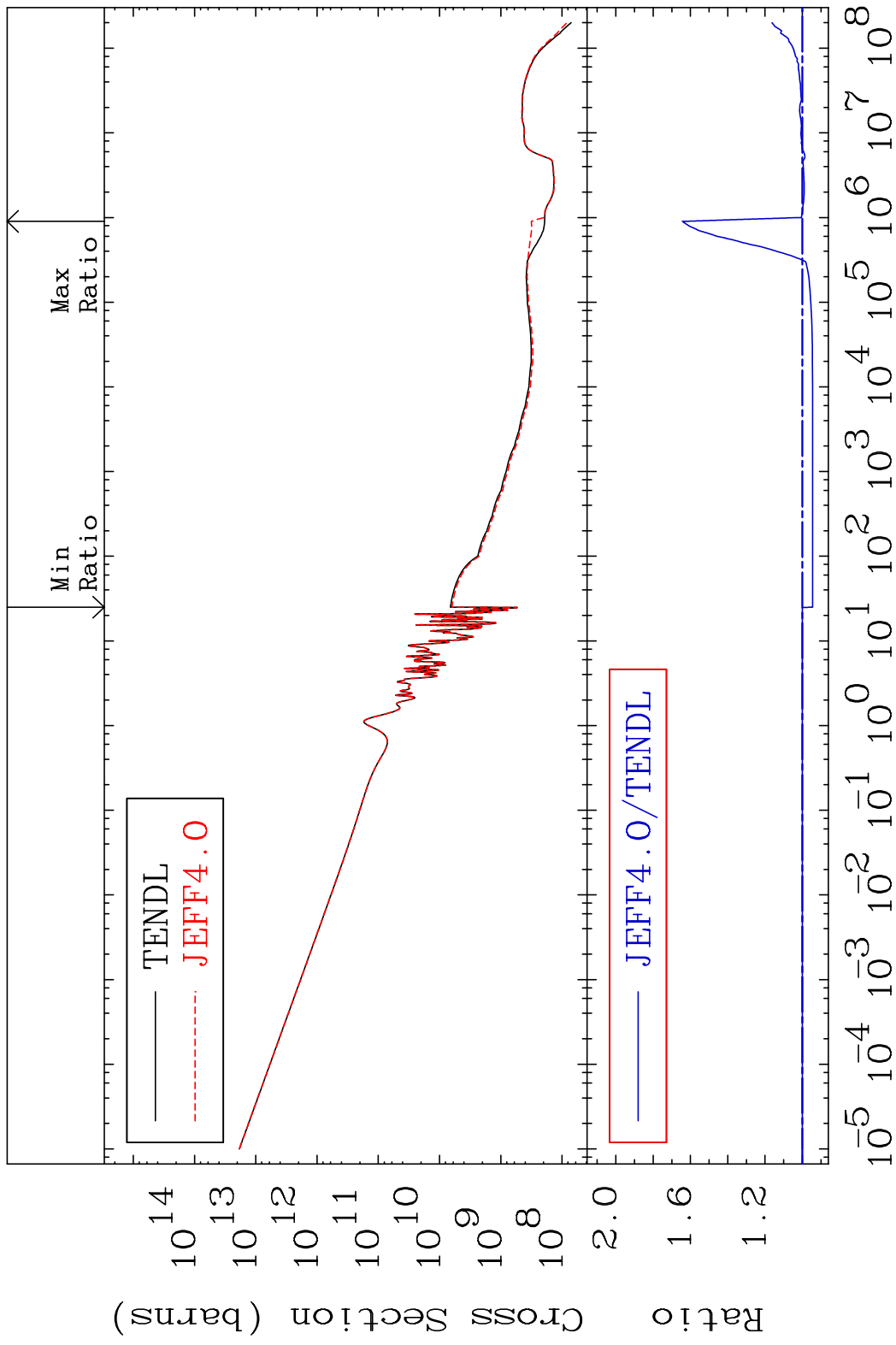
MAT 9349 Kerma non-elastic (all but mt2) 93-Np-238
 Cross Section -5.482 To 64.33 %



MAT 9349 Kerma inelastic (mt51-91) 93-Np-238
 Cross Section -3918. To 9999. %

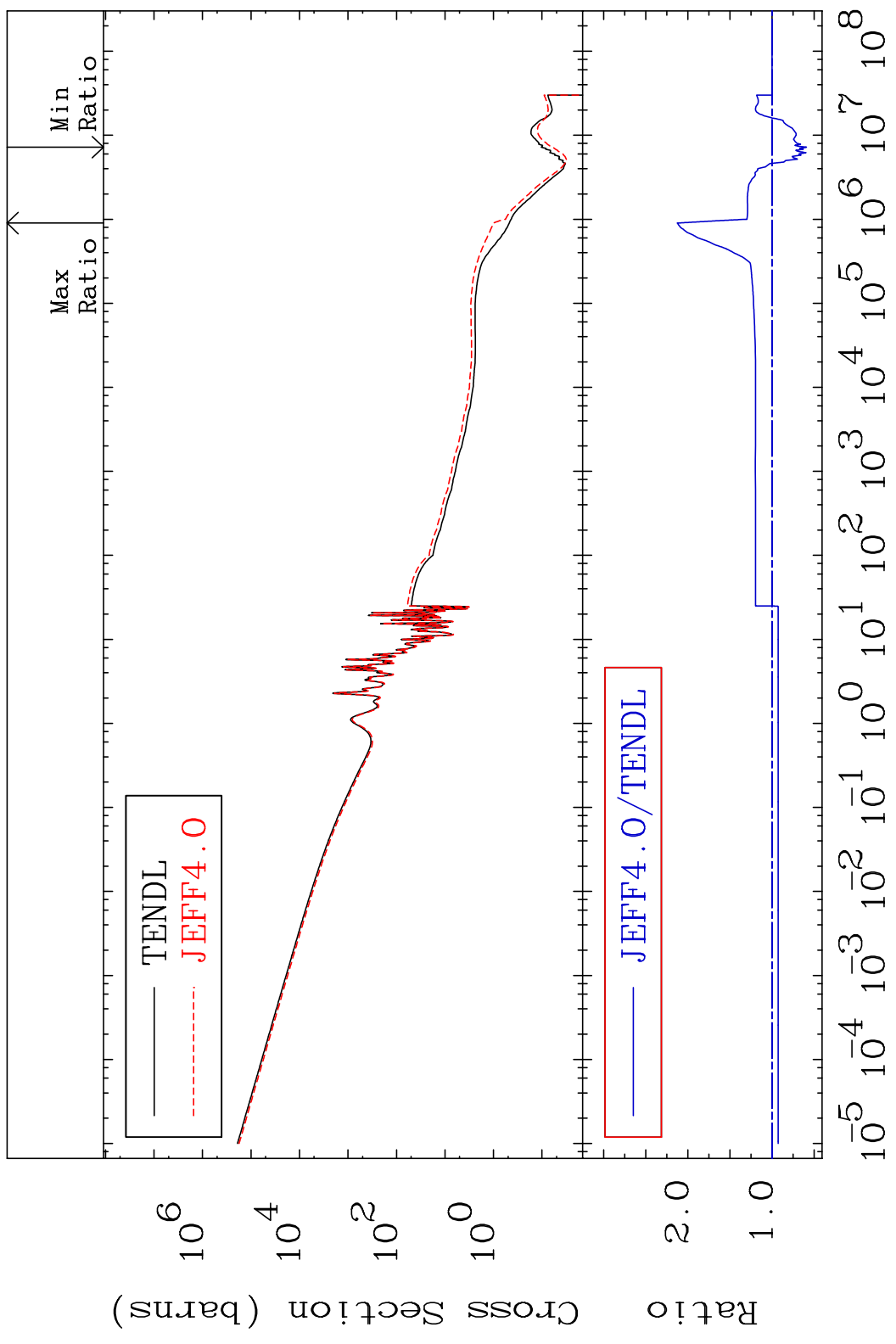


MAT 9349 Kerma fission (mt18 or mt19-20-21-38) 93-Np-238
 Cross Section -5.482 To 64.34 %



MAT 9349

Kerma capture (mt102) 93-Np-238
Cross Section -40.68 To 112.7 %

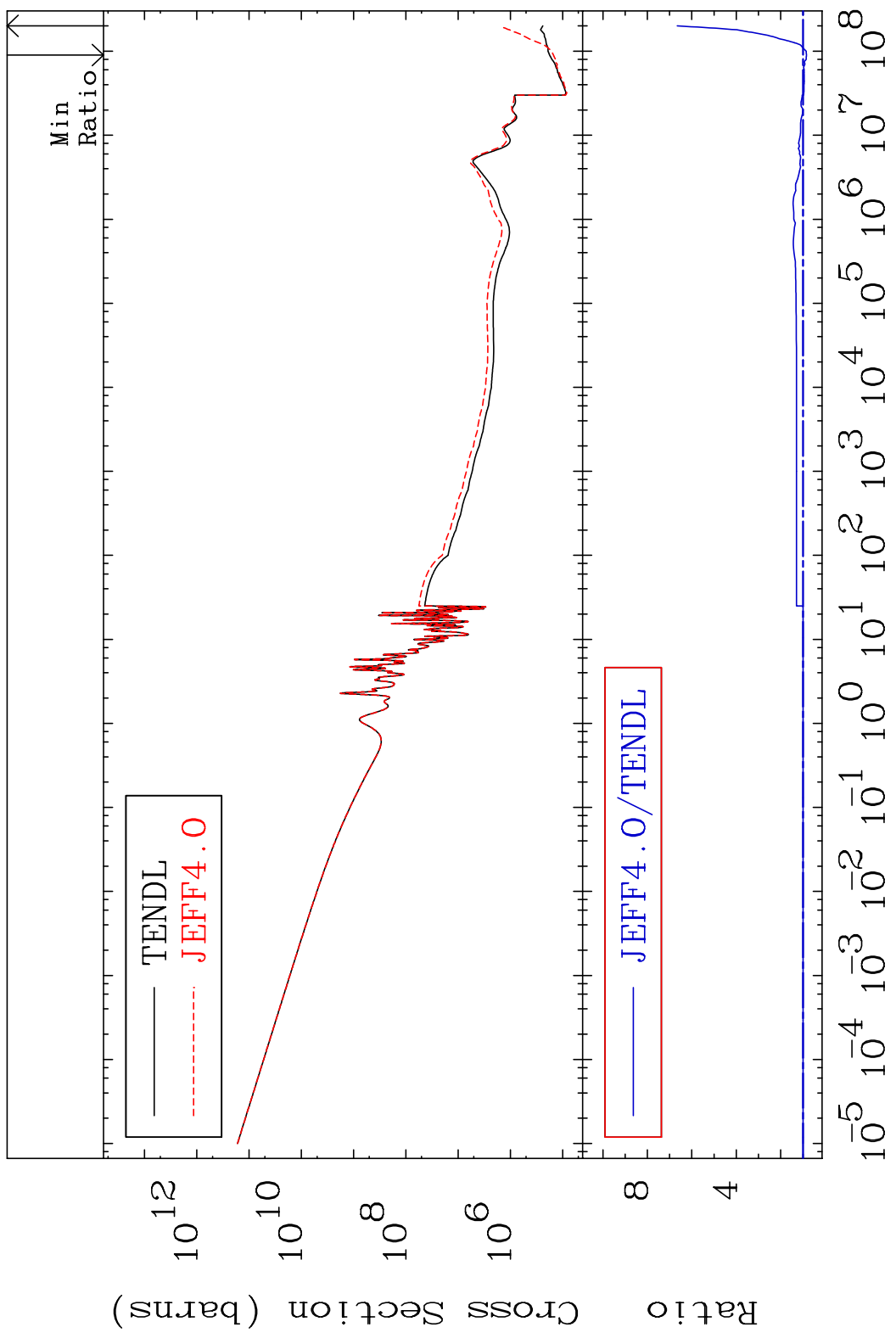


MAT 9349

Total photon (eV-barns)

93-Np-238

Cross Section -15.44 To 565.8 %

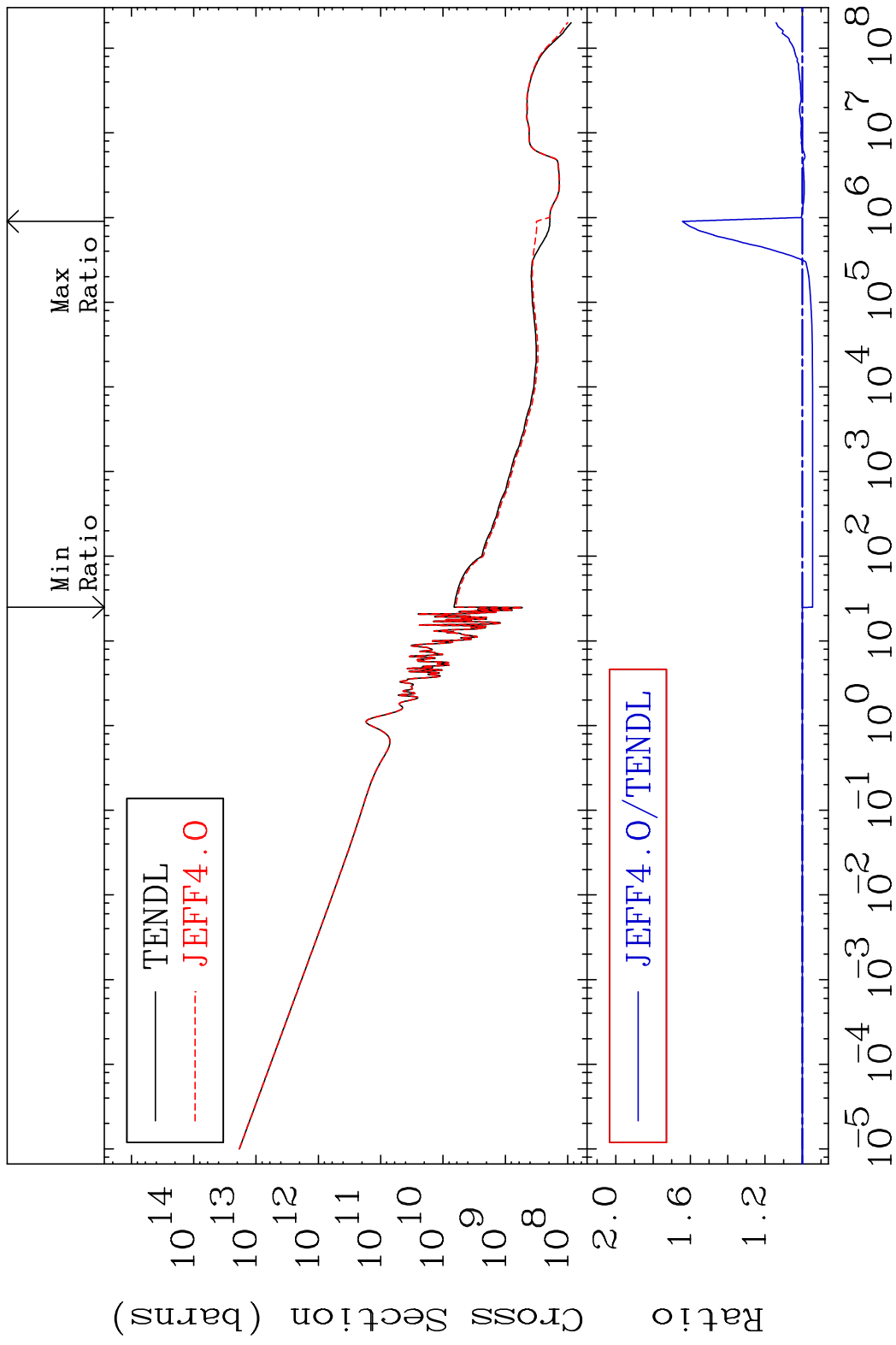


58

Incident Energy (eV)

93-Np-238

MAT 9349 Total kinematic kerma (high limit) 93-Np-238
 Cross Section -5.482 To 64.32 %

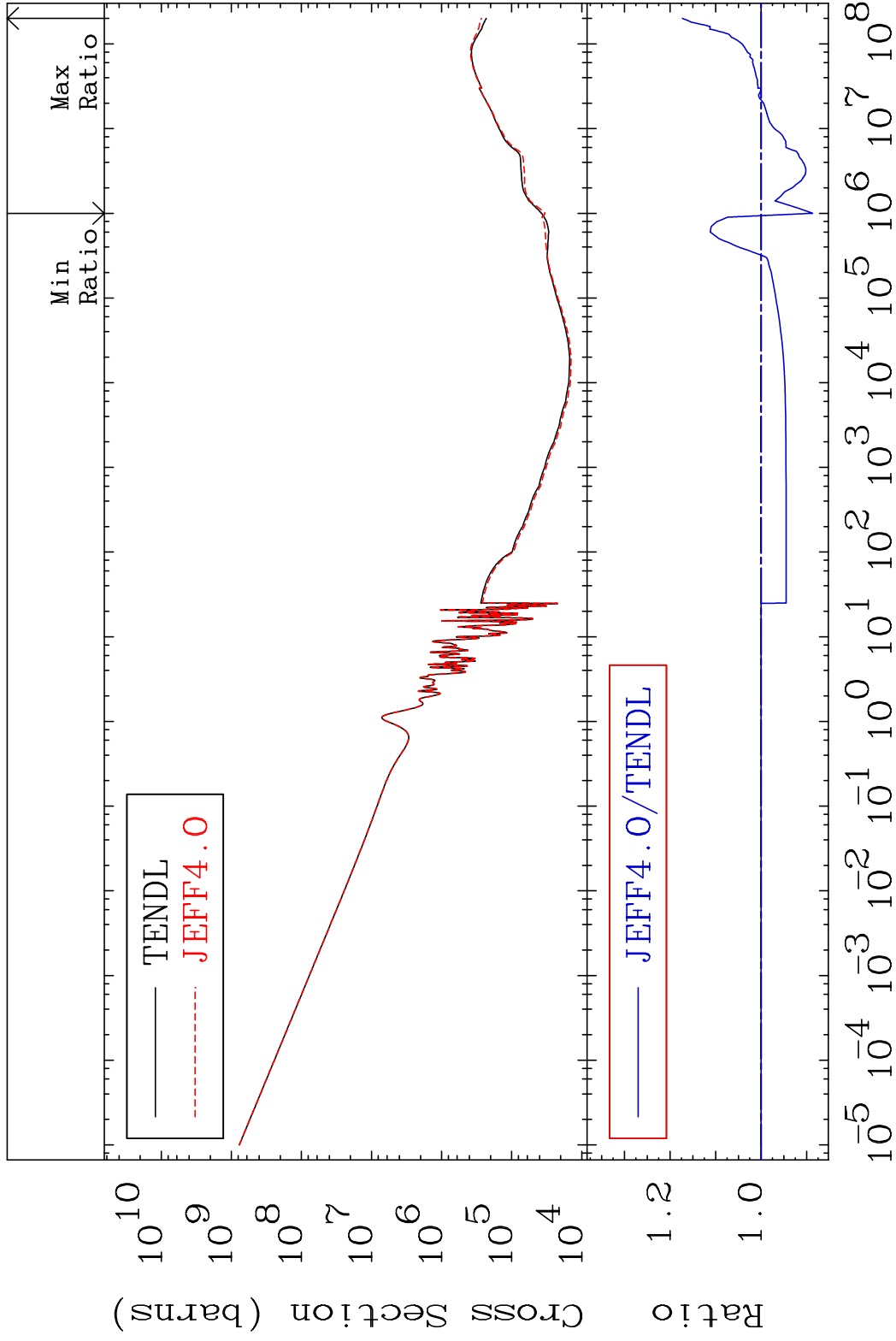


MAT 9349

Dpa total (eV-barns)

93-Np-238

Cross Section -11.28 To 17.30 %



60

Incident Energy (eV)

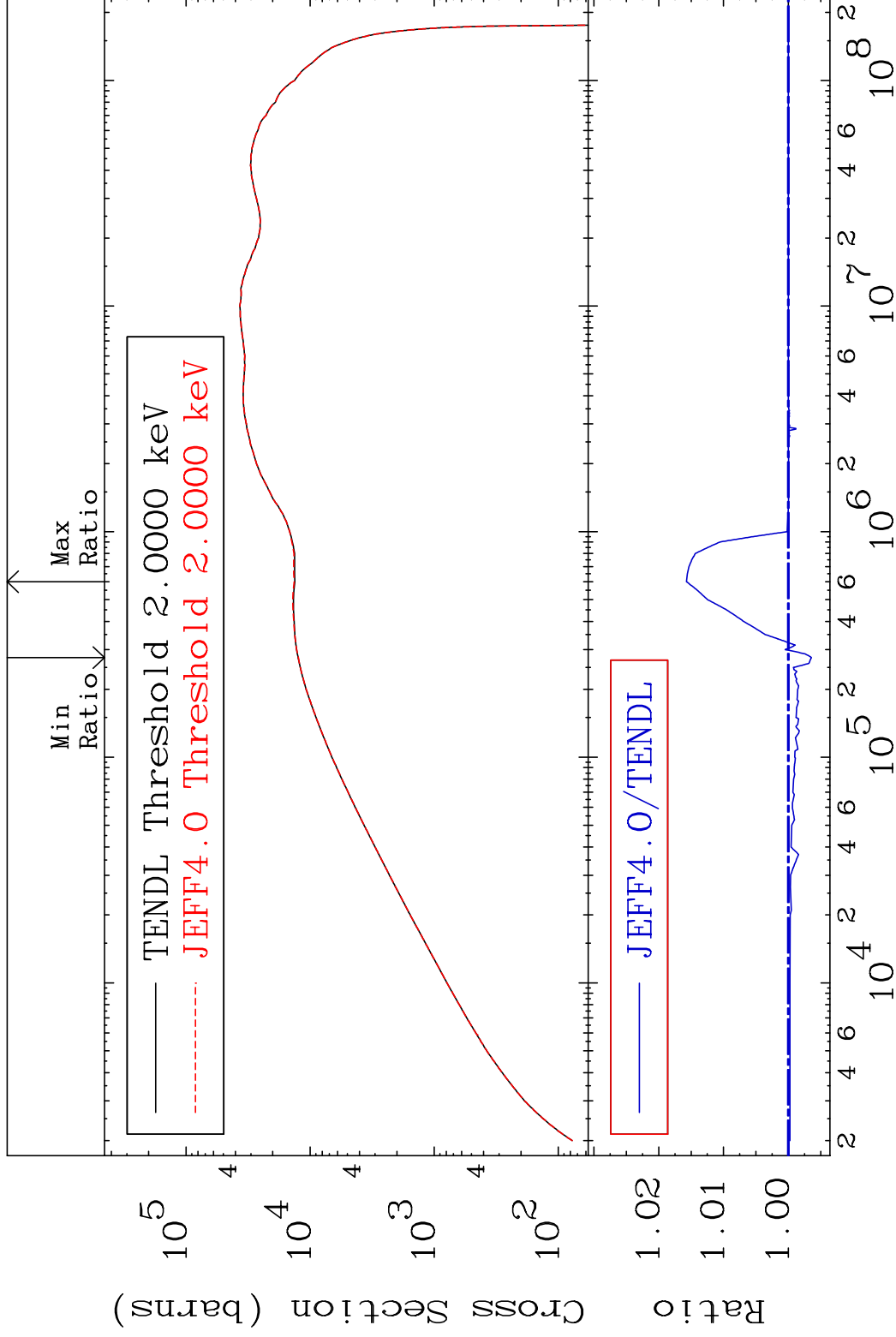
93-Np-238

MAT 9349

Dpa elastic (mt2)

93-Np-238

Cross Section -0.355 To 1.573 %

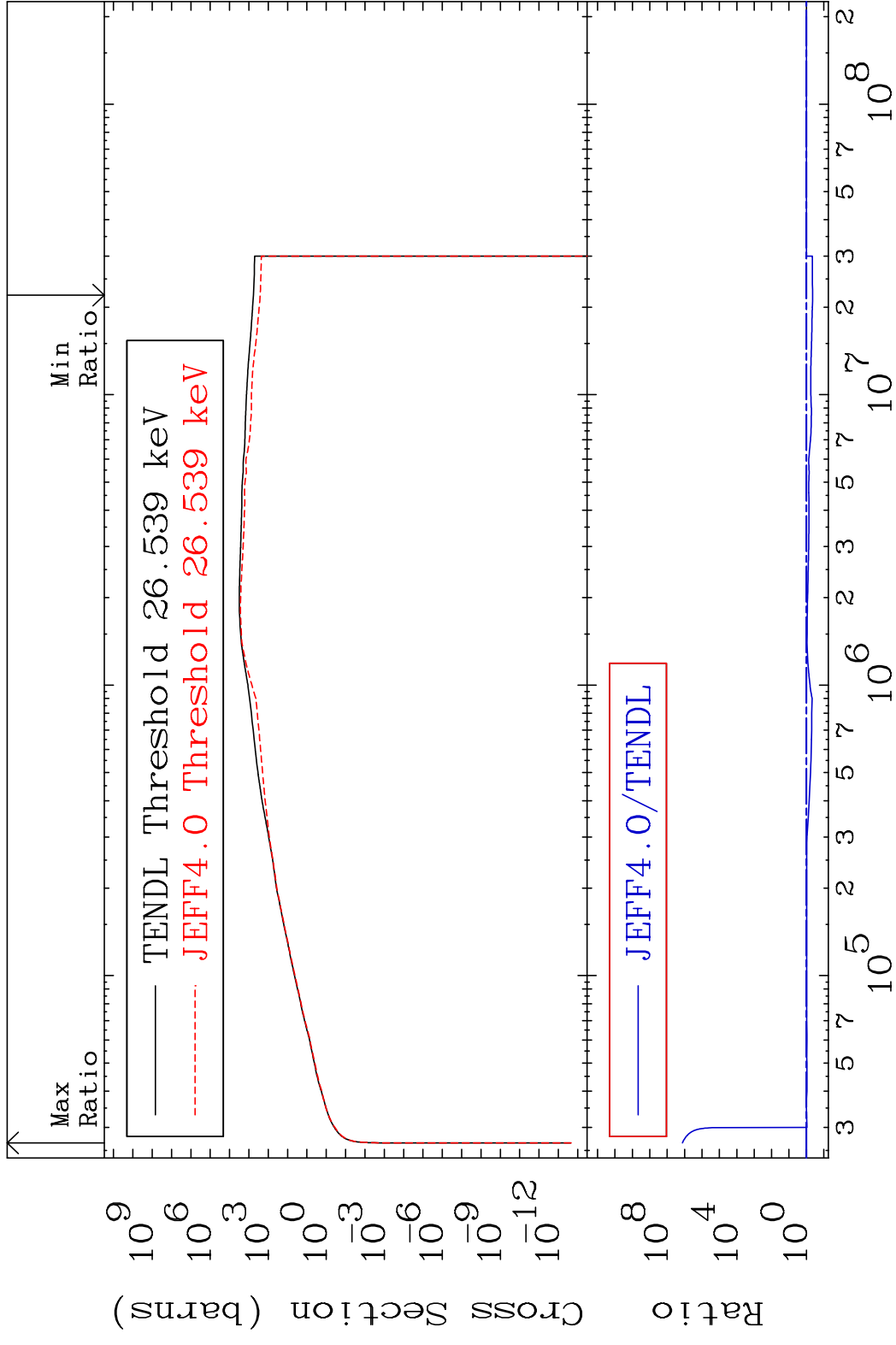


61

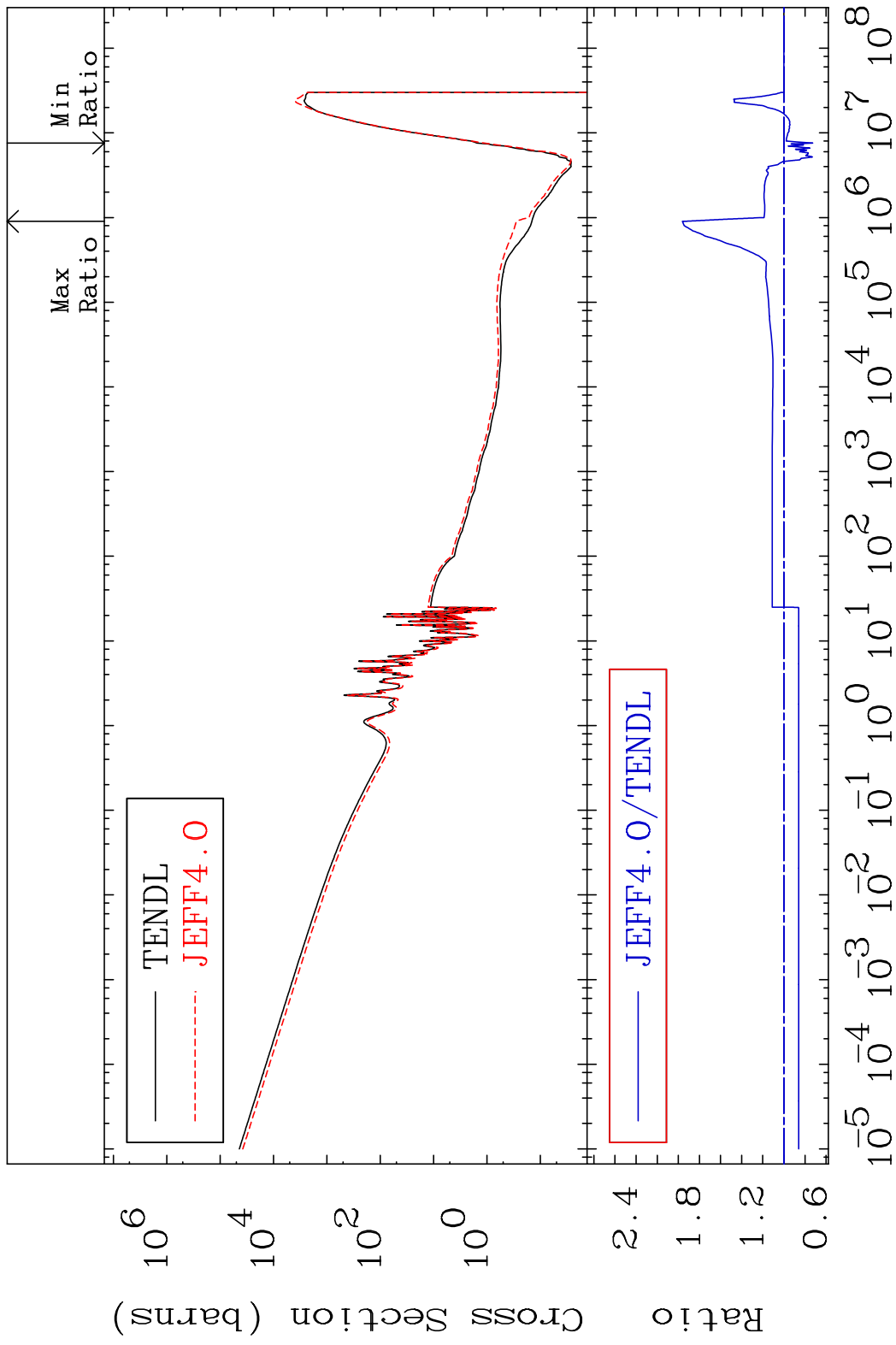
Incident Energy (eV)

93-Np-238

MAT 9349 Dpa inelastic (mt51-91) 93-Np-238
 Cross Section -55.77 To 9999. %

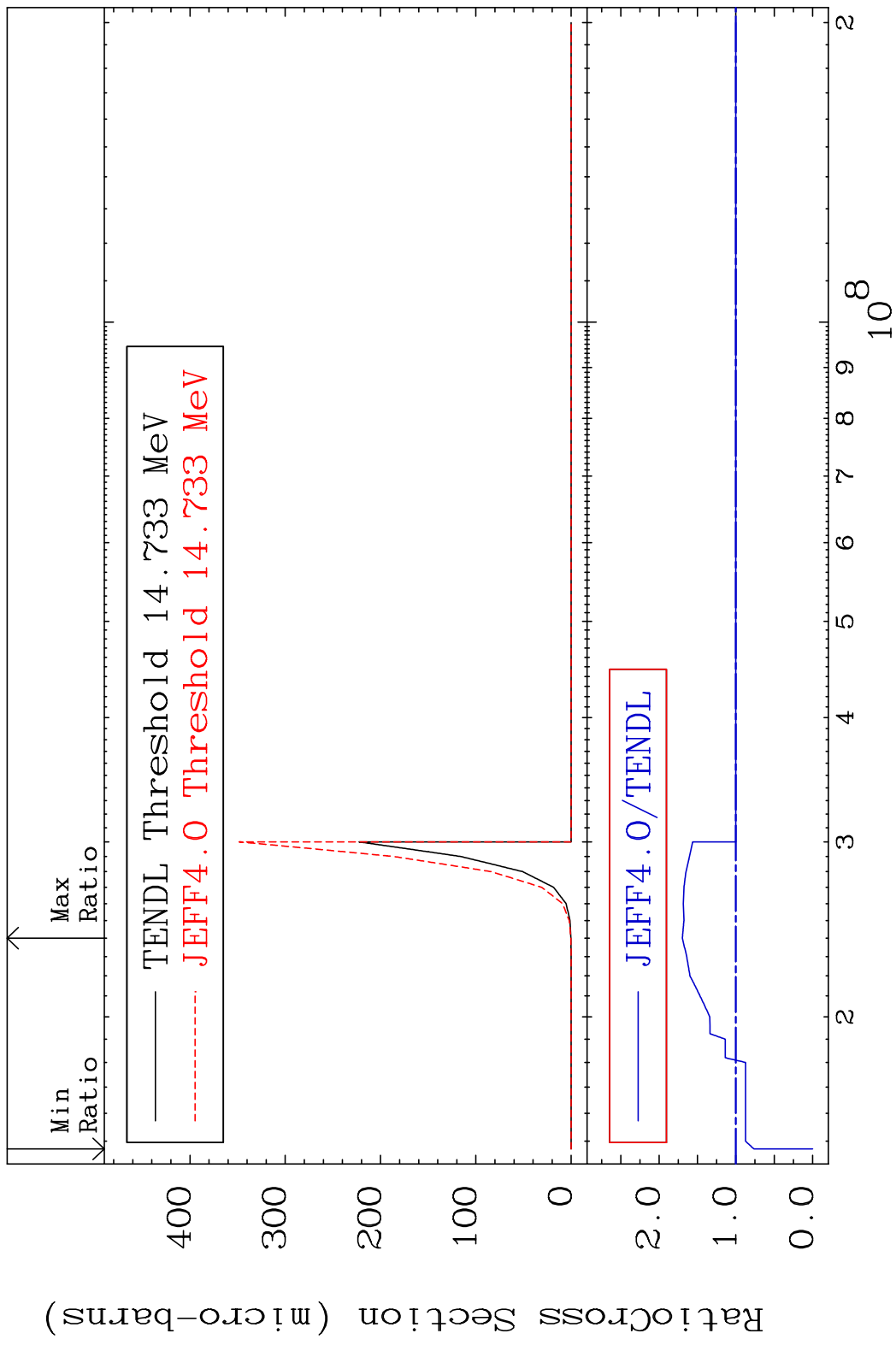


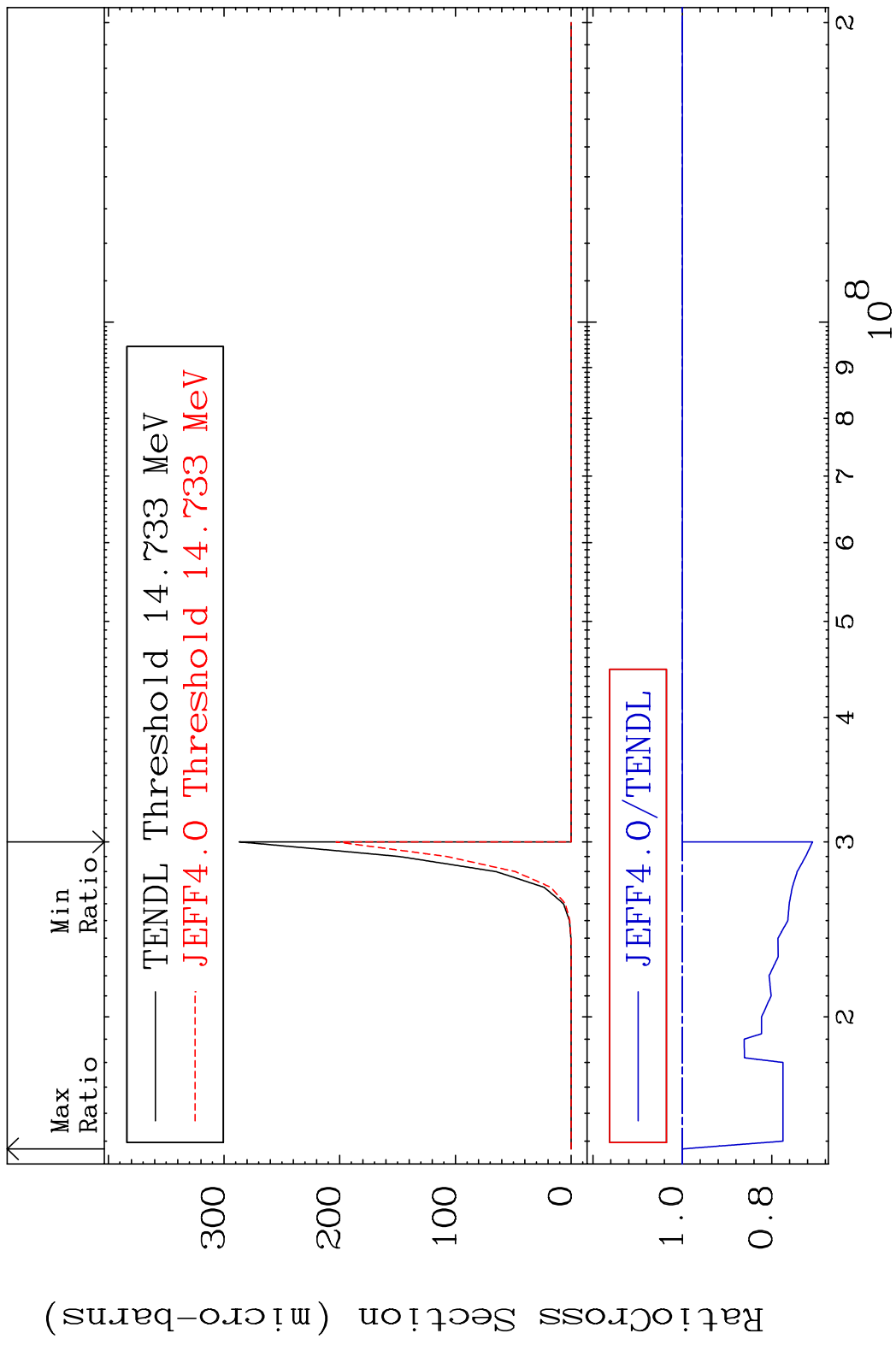
MAT 9349 Dpa disappearance (mt102 -120) 93-Np-238
 Cross Section -27.18 To 96.16 %



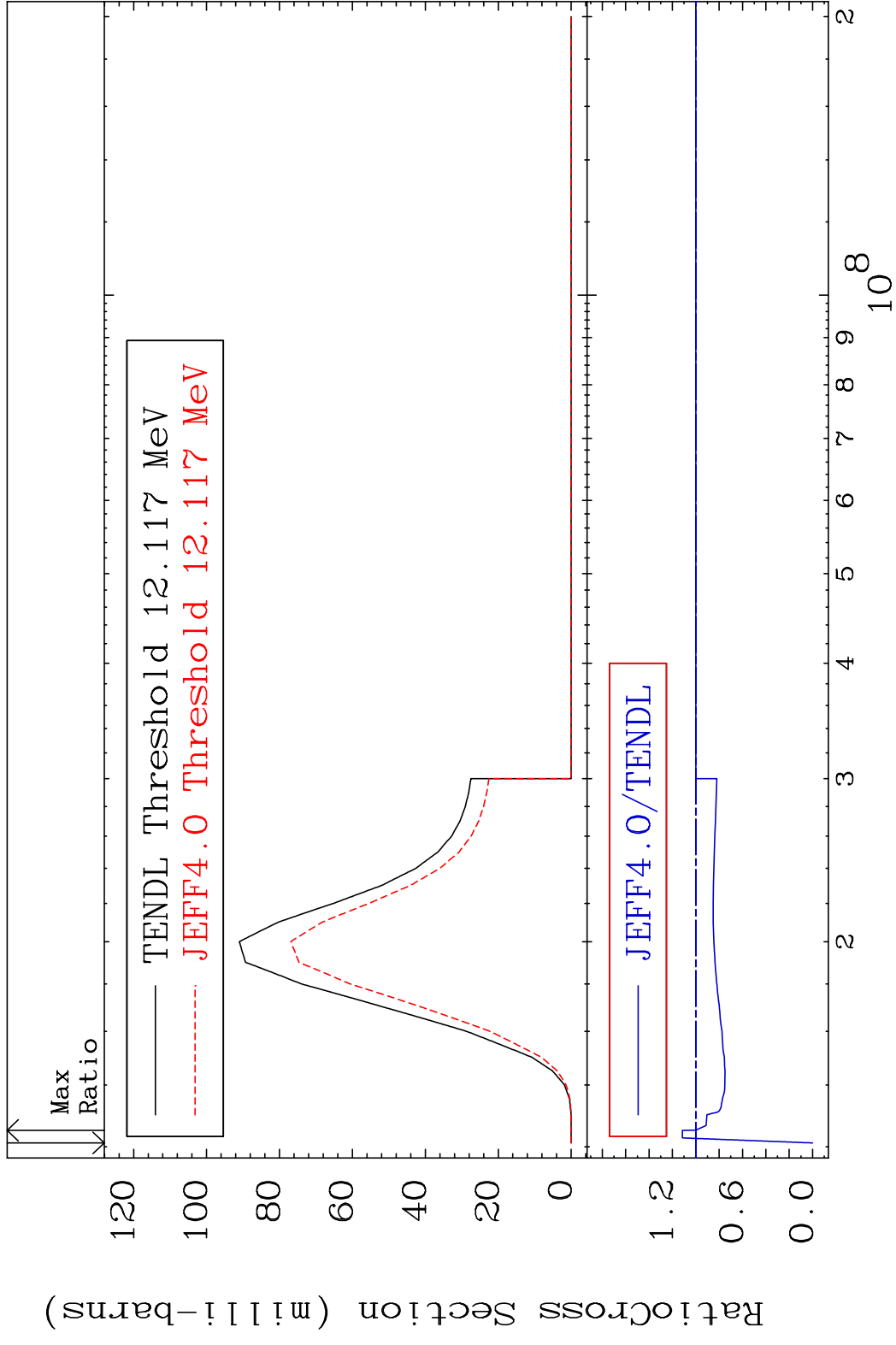
63 Incident Energy (eV) 93-Np-238

MAT 9349 (n,2n) d:92-U -235g 93-Np-238
 Radionuclide Production Cross Section 180.01 dth 69.71 %

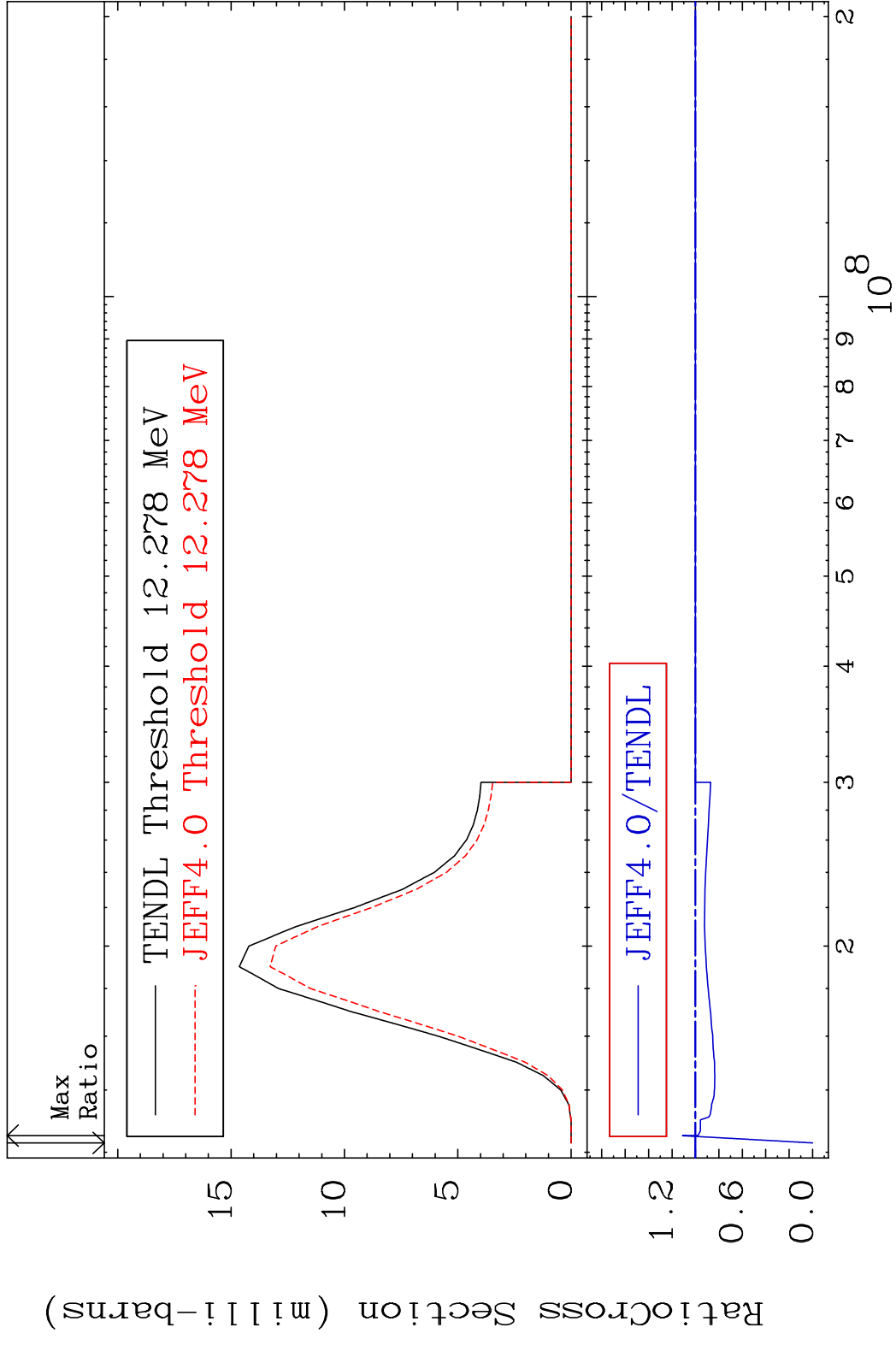




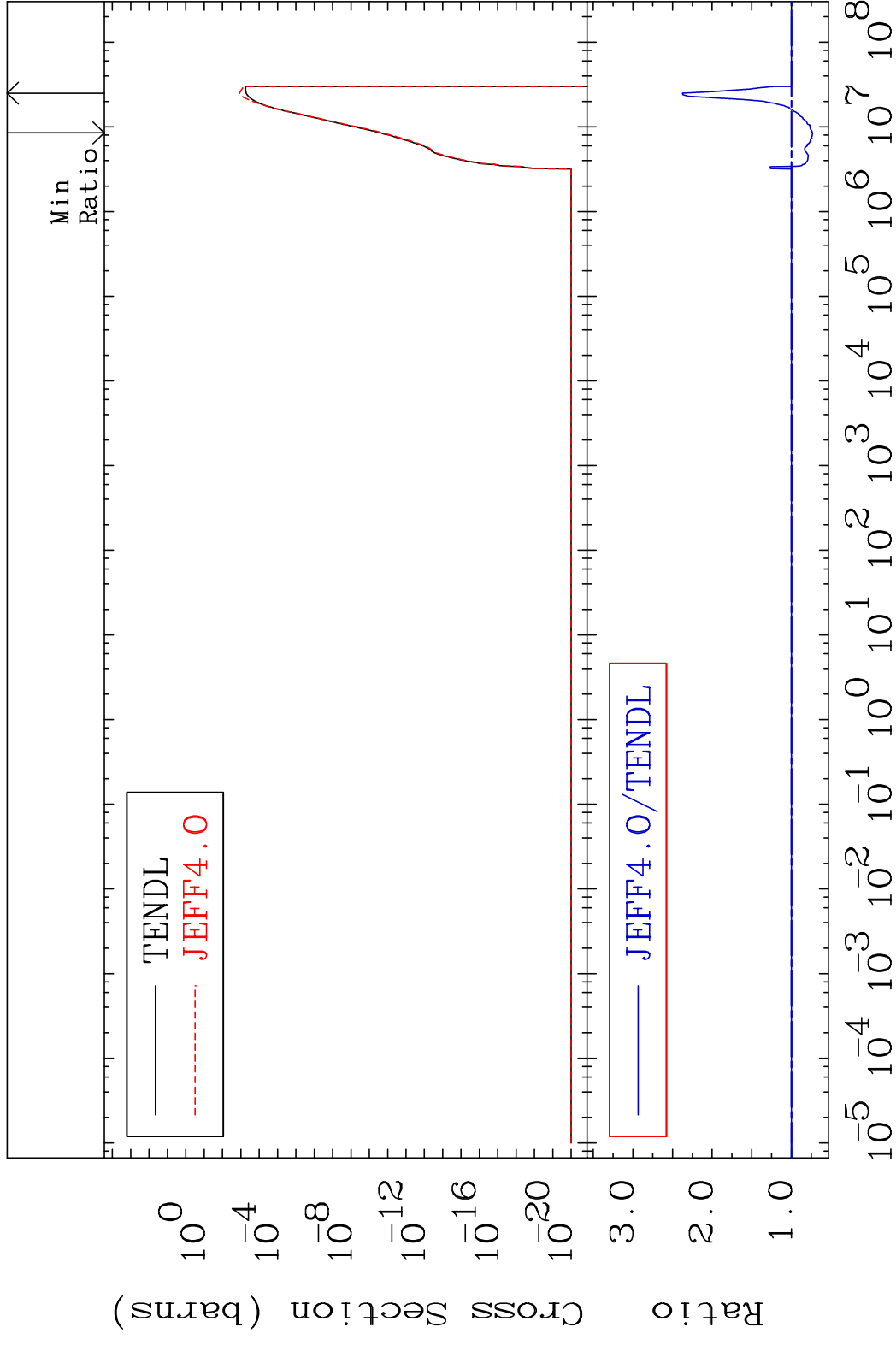
MAT 9349 (n,3n):93-Np-236g 93-Np-238
 Radionuclide Production Cross Section 18.00 mb 11.49 %



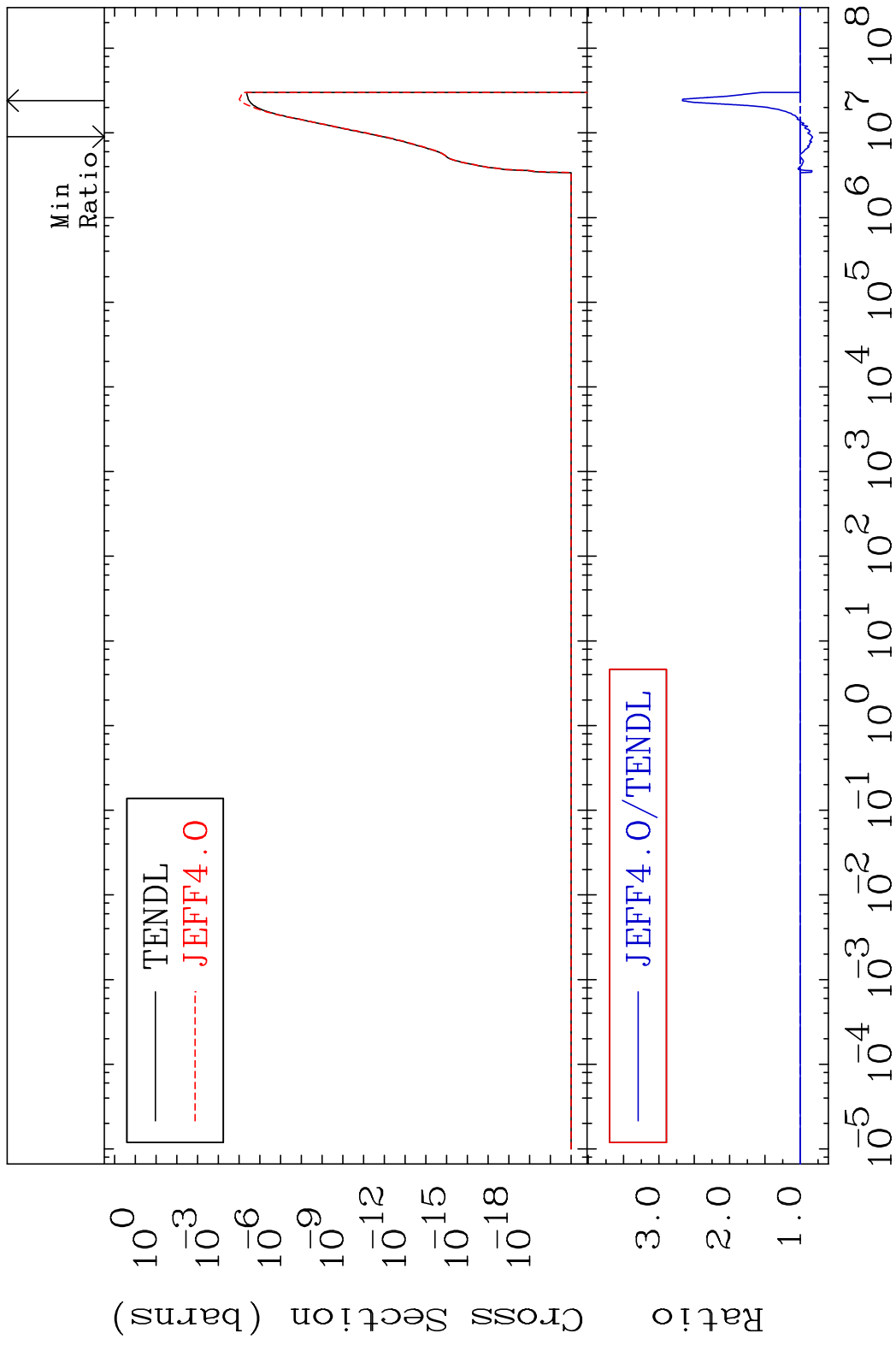
MAT 9349 (n, 3n):93-Np-236m1 93-Np-238
 Radionuclide Production Cross Section 18.00 mb 11.18 %



MAT 9349 (n, n') α :91-Pa-234g 93-Np-238
 Radionuclide Production Cross Section 137.6 %

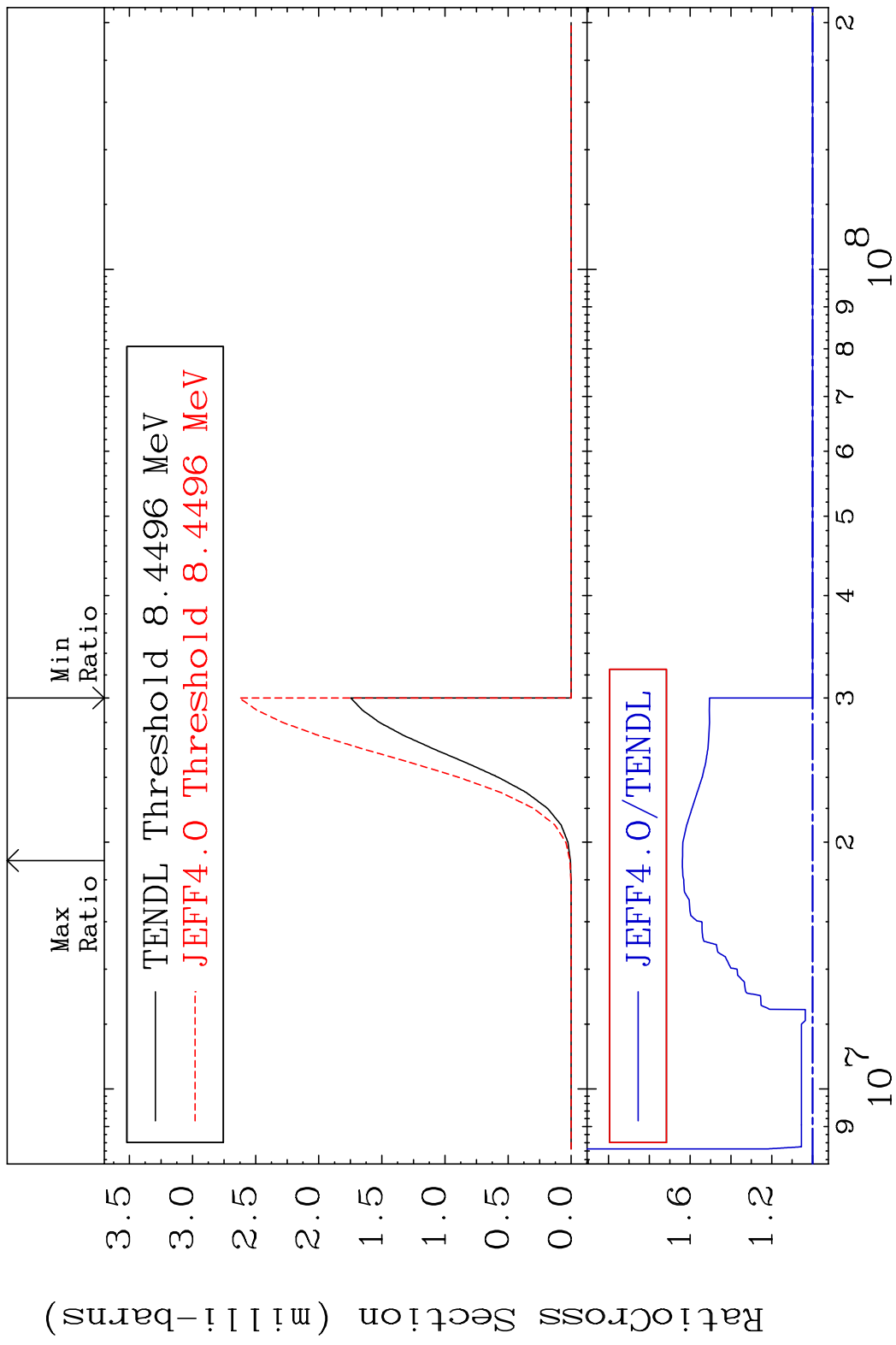


MAT 9349 (n, n') α :91-Pa-234m2 93-Np-238
 Radionuclide Production Cross Section 166.9 %



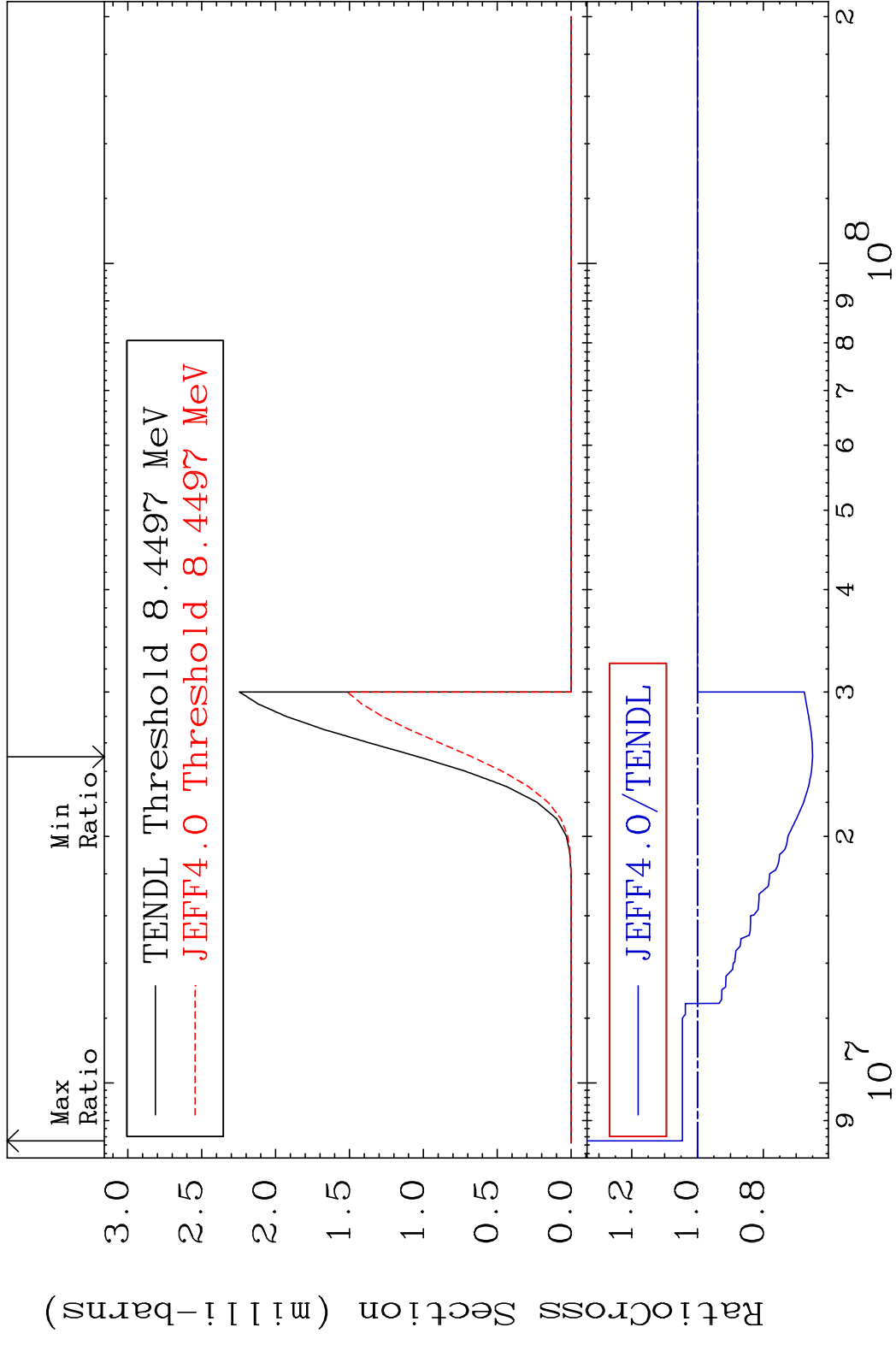
69 Incident Energy (eV) 93-Np-238

MAT 9349 (n, n') t:92-U -235g 93-Np-238
 Radionuclide Production Cross Section 63.84 %



70 Incident Energy (eV) 93-Np-238

MAT 9349 (n, n') t:92-U -235m1 93-Np-238
 Radionuclide Production Cross Section to 4.617 %



MAT 9349 (n,3n) p:92-U -235g 93-Np-238
 Radionuclide Production Cross Section to 52.14 %

