

Program Complot
(Version 2021-1)

by

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Press Mouse Button to Start

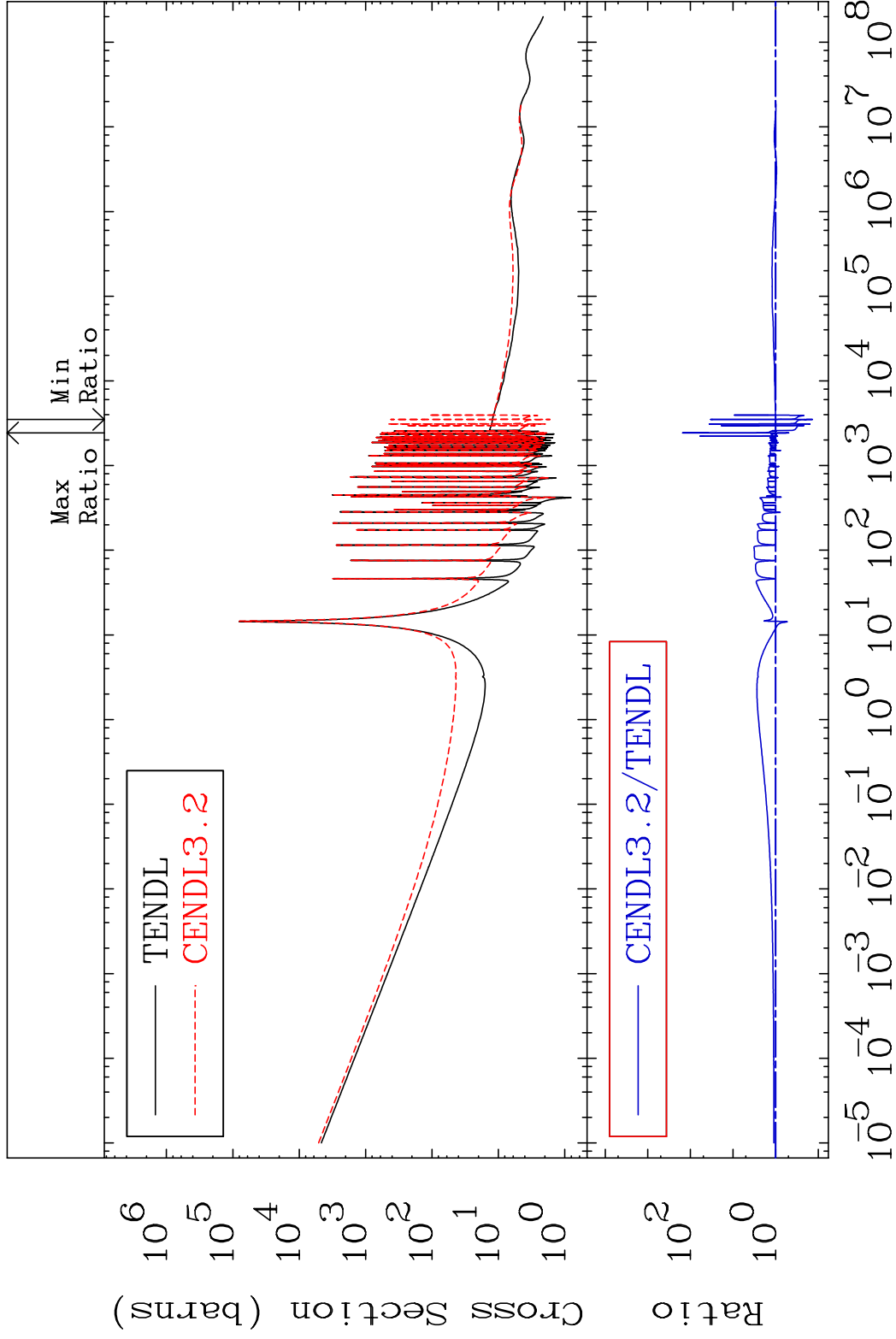
MAT 5446

Total

54-Xe-131

Cross Section

-86.36 To 9999. %



1

Incident Energy (eV)

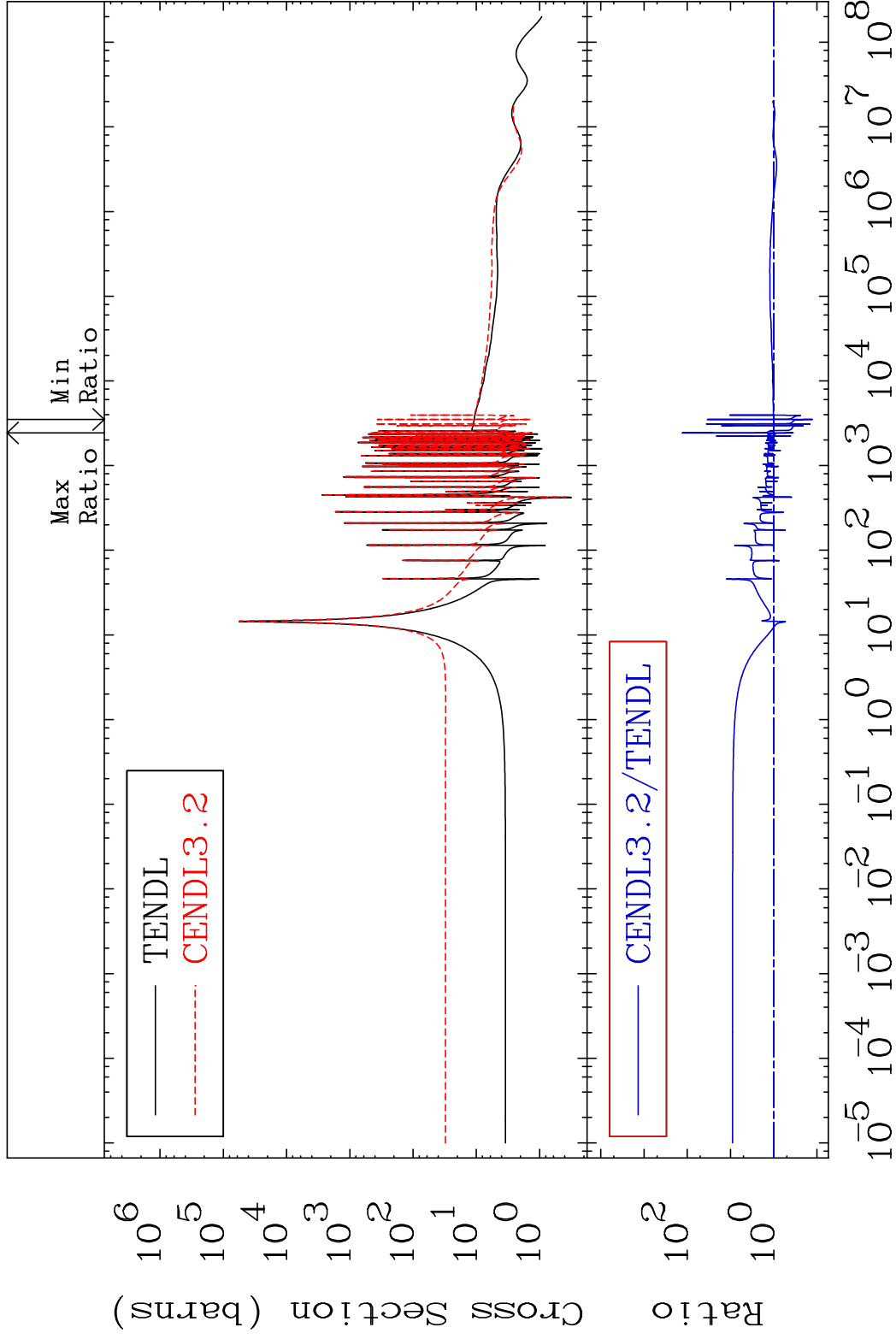
54-Xe-131

MAT 5446

Elastic

54-Xe-131

Cross Section -87.36 To 9999. %

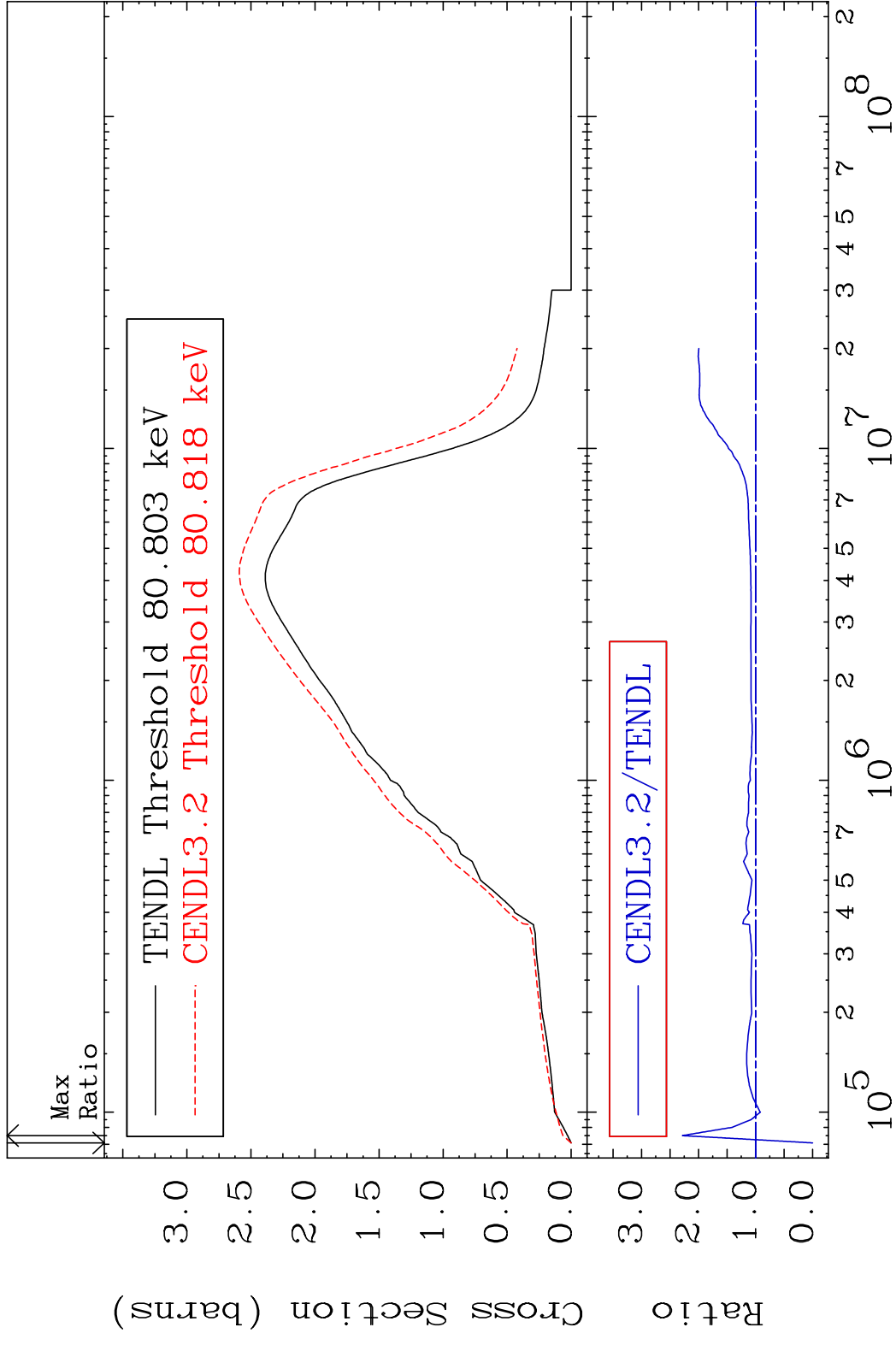


2

Incident Energy (eV)

54-Xe-131

MAT 5446 Inelastic 54-Xe-131
 Cross Section -100.0 To 128.4 %

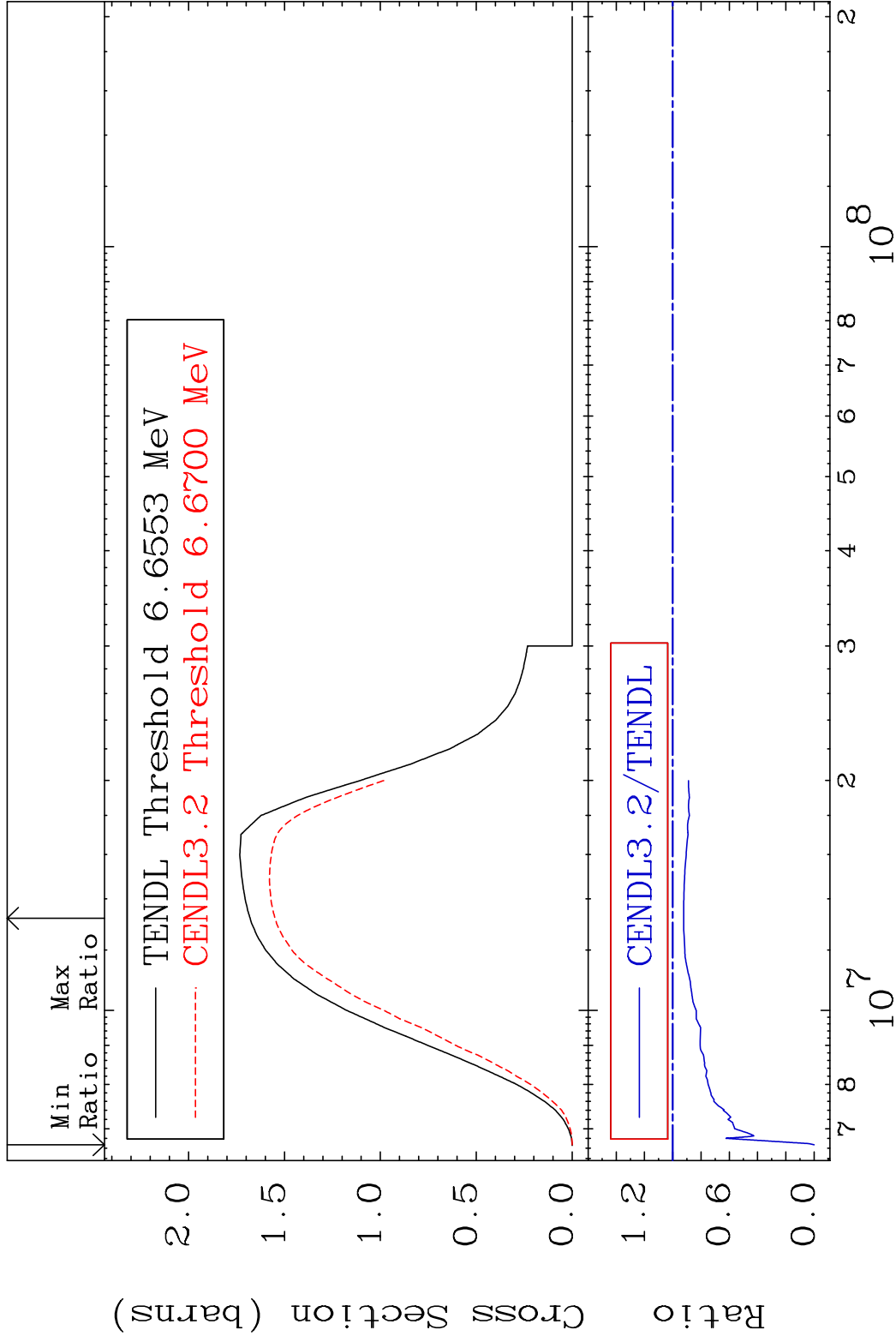


MAT 5446

(n,2n)

54-Xe-131

Cross Section -100.0 To -7.715%



4

Incident Energy (eV)

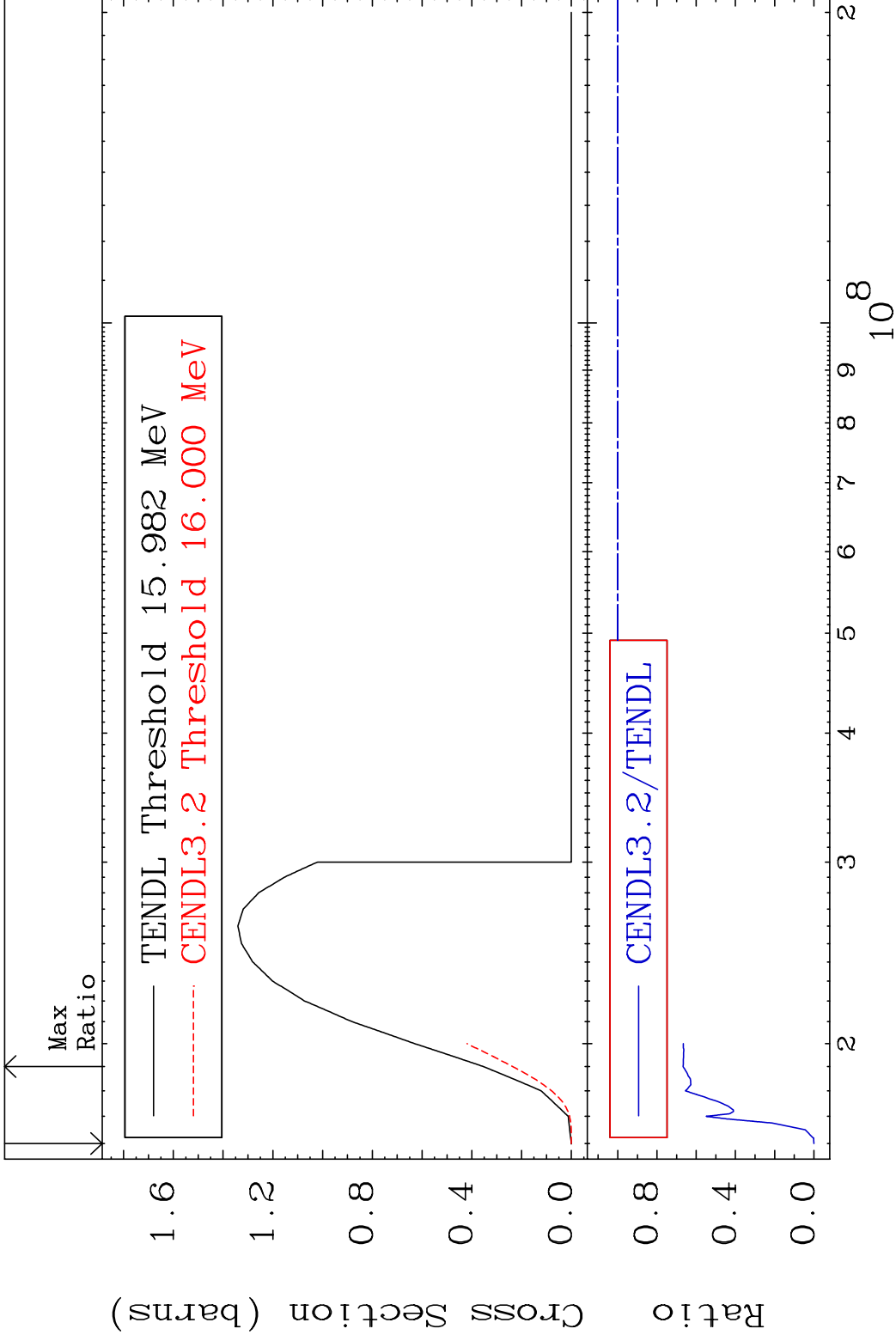
54-Xe-131

MAT 5446

(n,3n)

54-Xe-131

Cross Section -100.0 To -33.28%

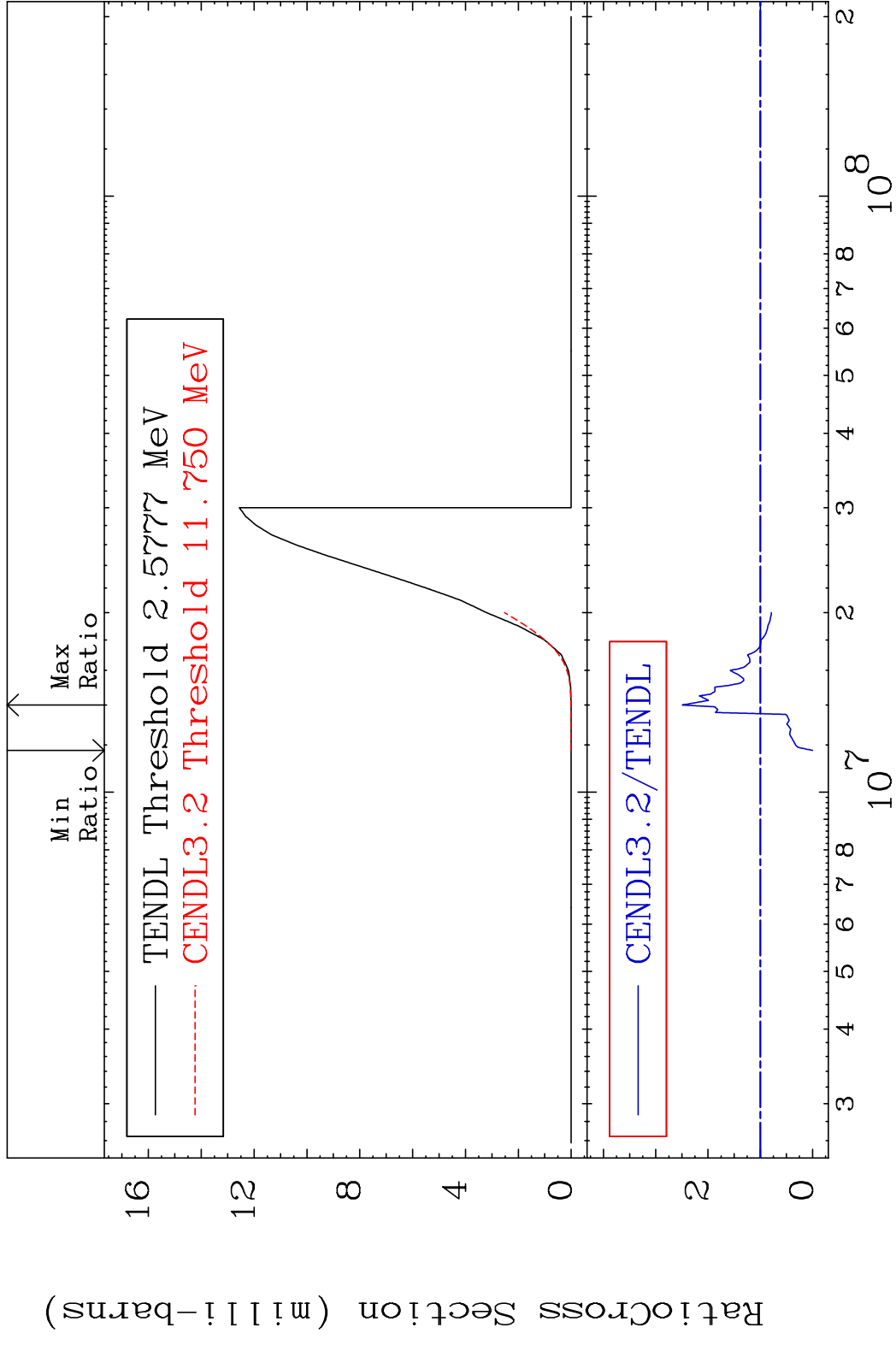


5

Incident Energy (eV)

54-Xe-131

MAT 5446 (n, n') α 54-Xe-131
 Cross Section -100.0 To 149.1 %



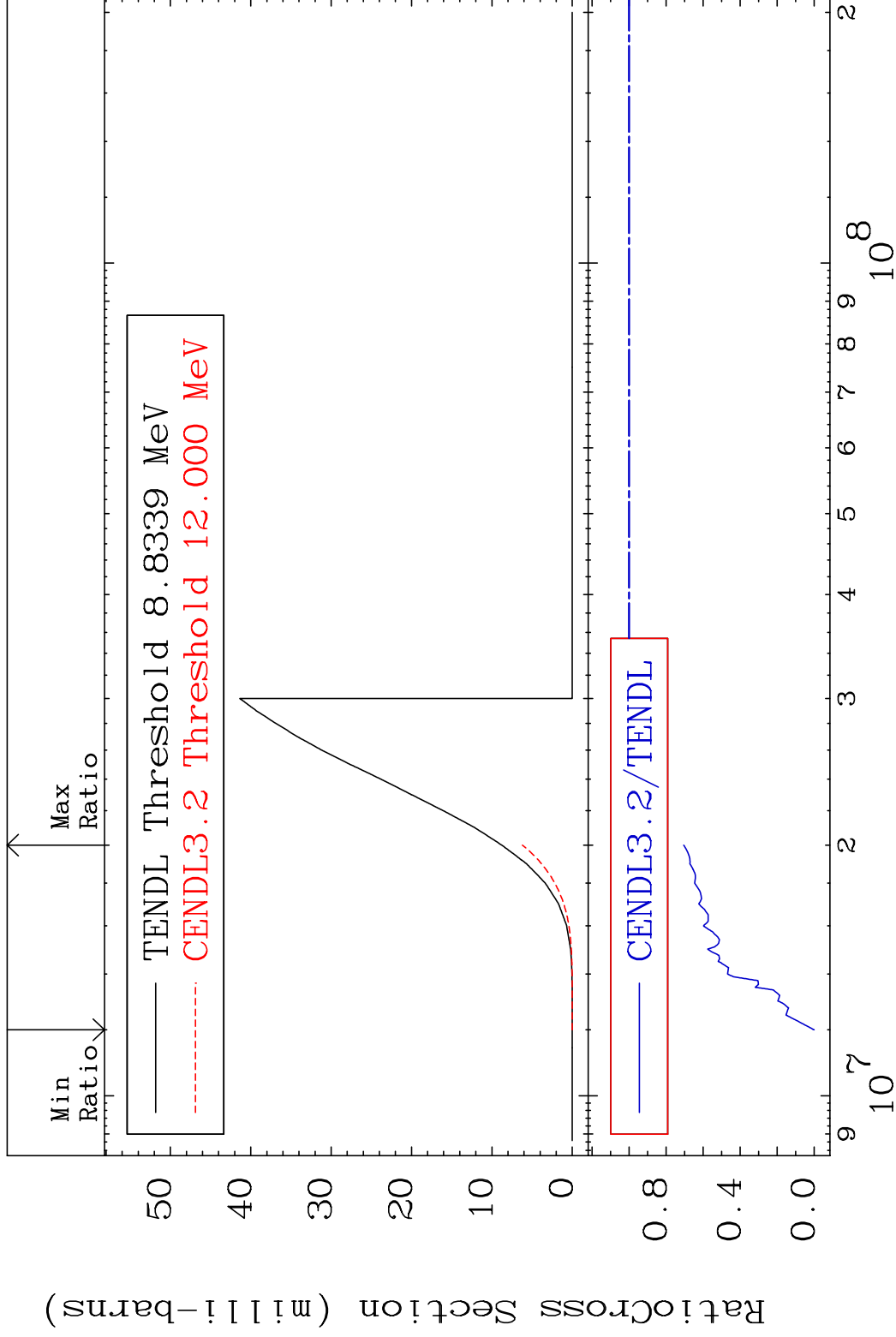
6 Incident Energy (eV) 54-Xe-131

MAT 5446

(n, n') p

54-Xe-131

Cross Section -100.0 To -29.47%

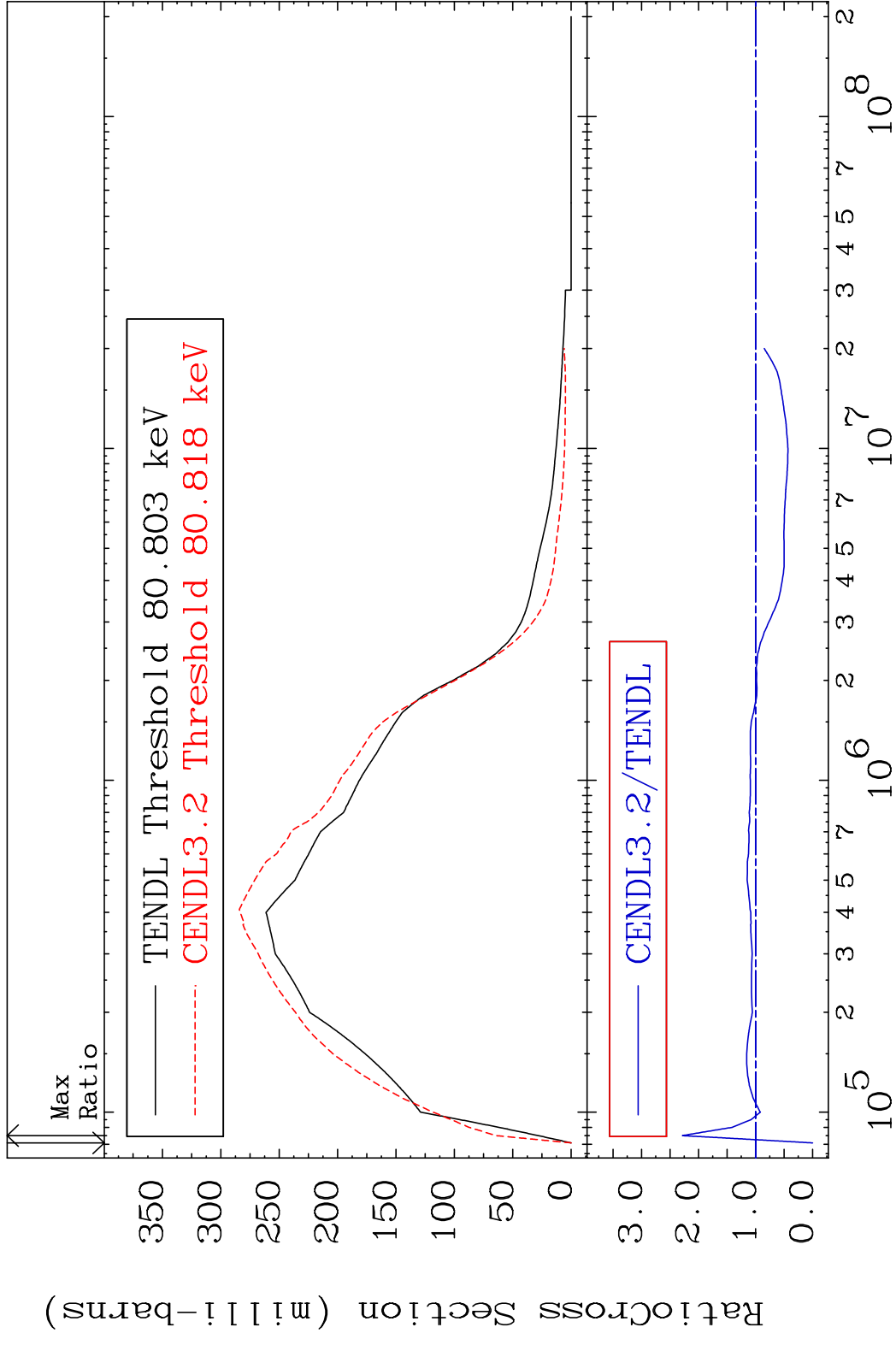


7

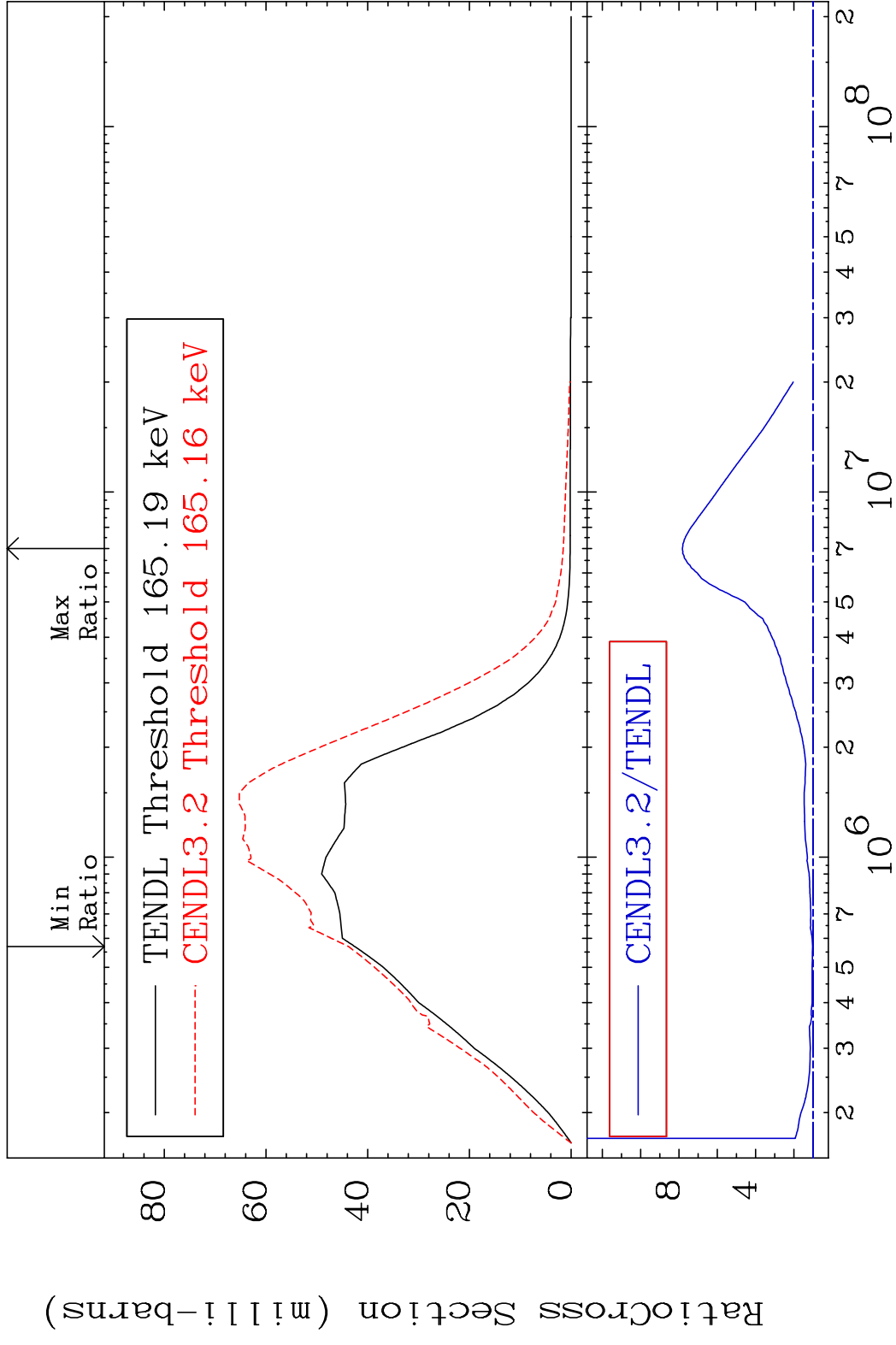
Incident Energy (eV)

54-Xe-131

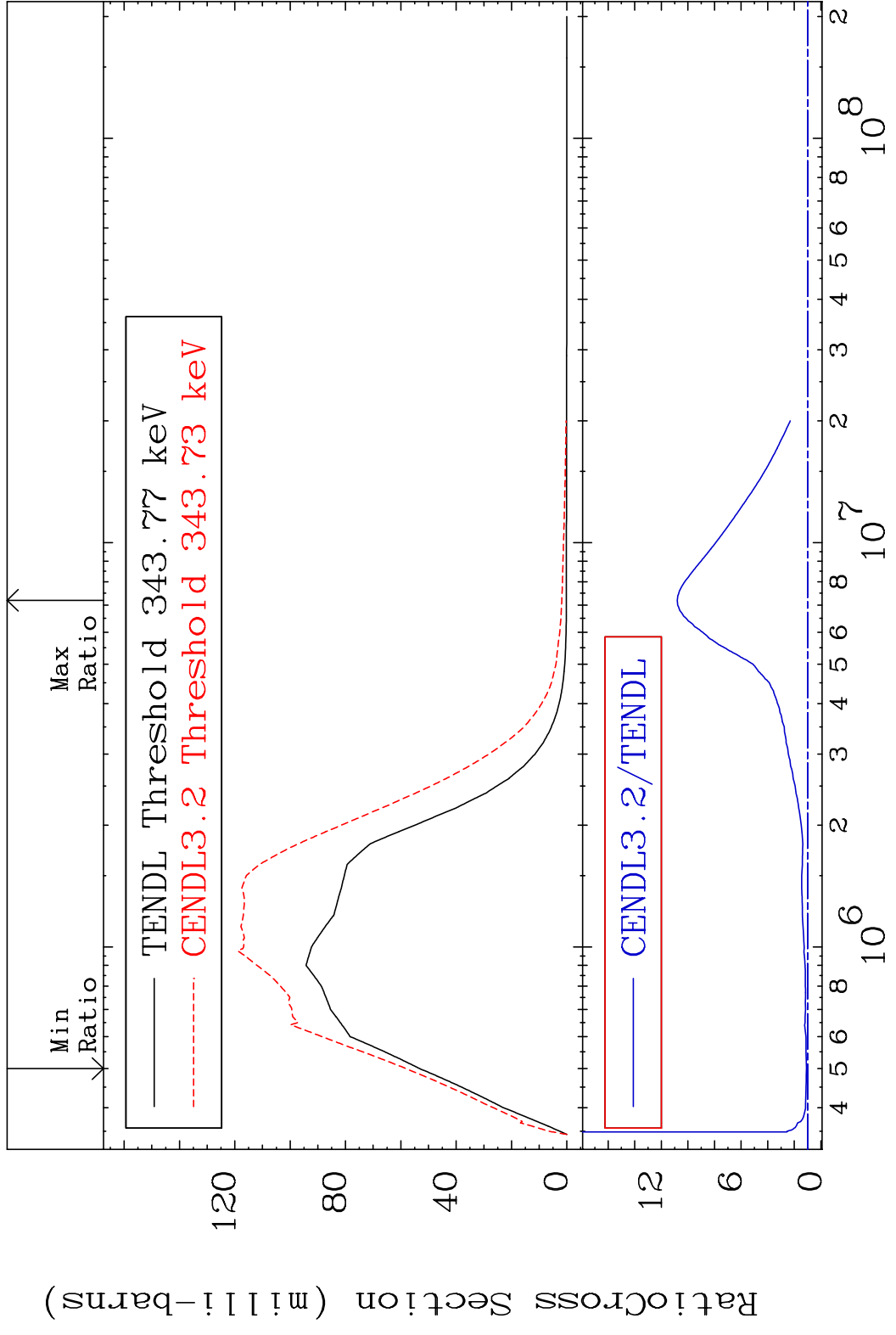
MAT 5446 MT= 51 (n, n') Level 54-Xe-131
 Cross Section -100.0 To 128.4 %



MAT 5446 MT= 52 (n, n') Level 54-Xe-131
 Cross Section 2.893 To 682.7 %

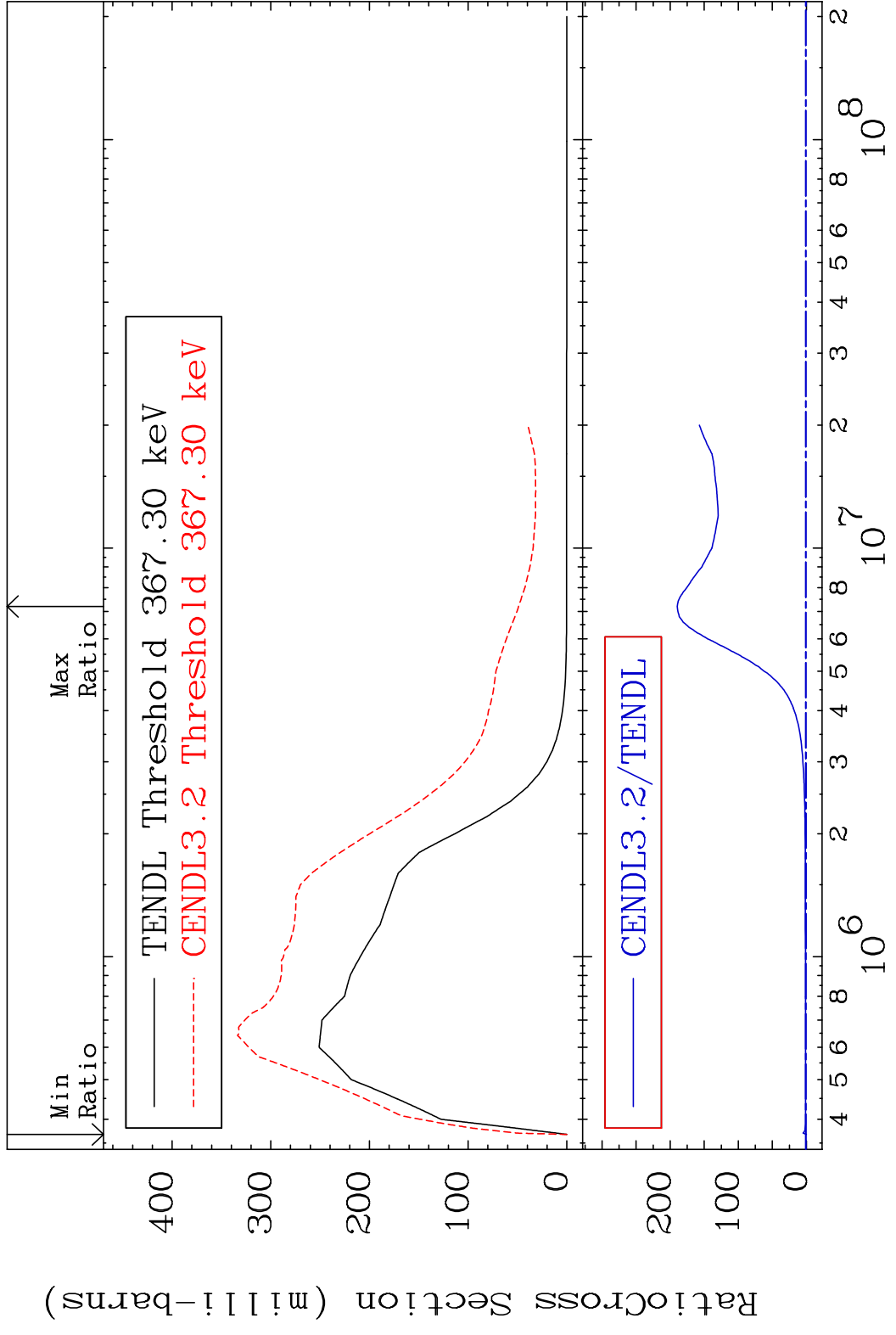


MAT 5446 MT= 53 (n, n') Level 54-Xe-131
 Cross Section 9.208 To 980.7 %

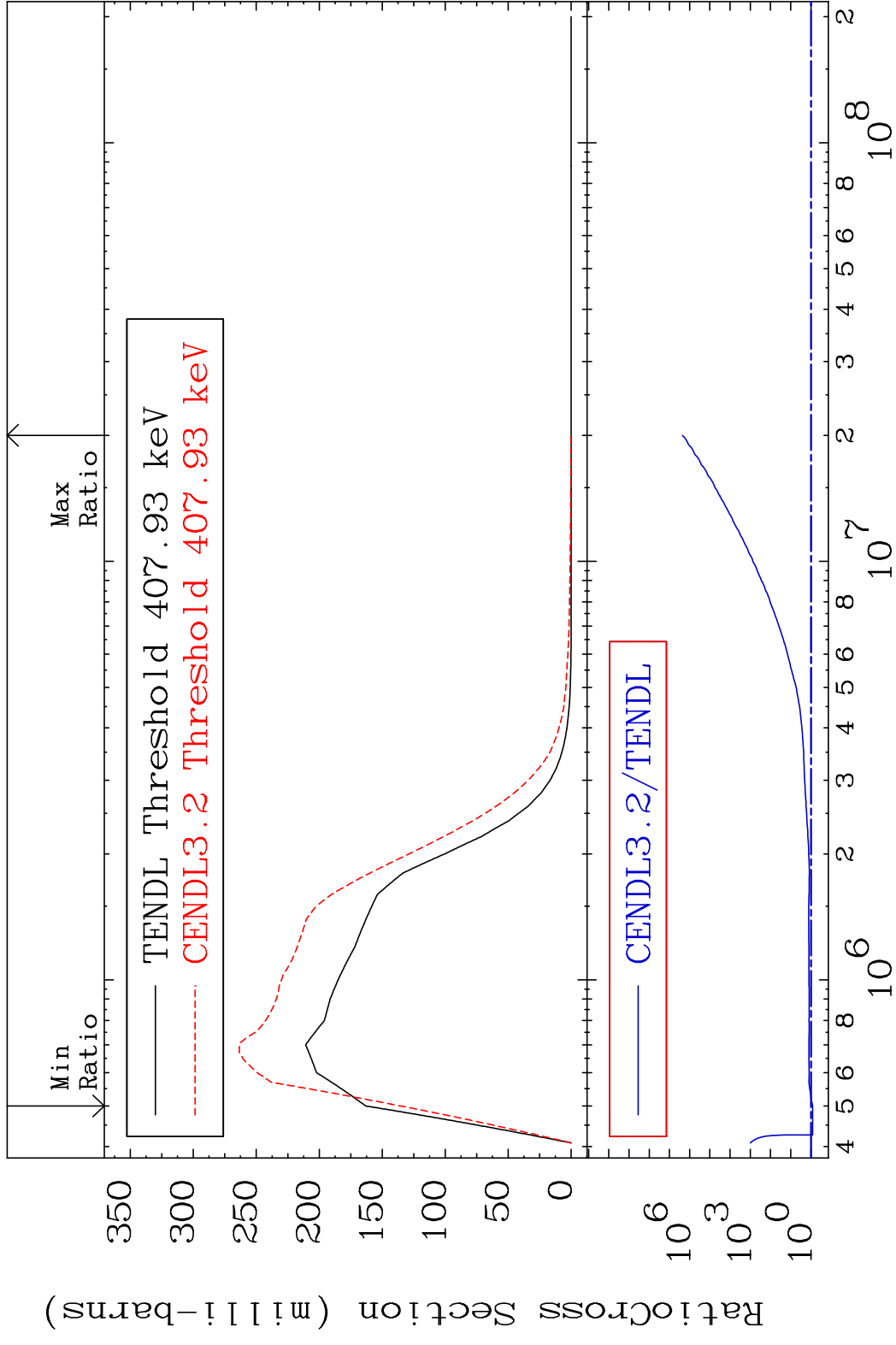


10 Incident Energy (eV) 54-Xe-131

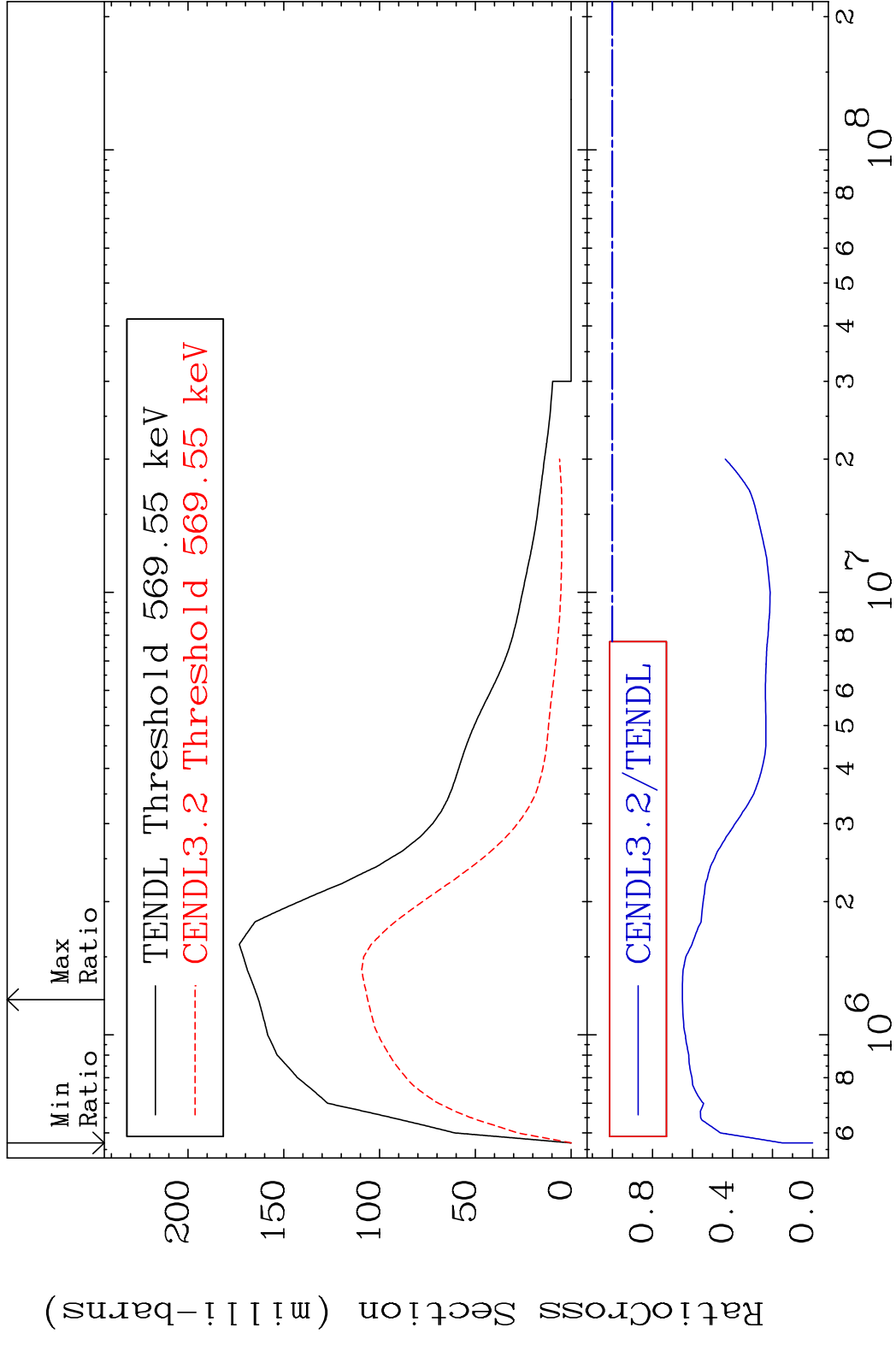
MAT 5446 MT= 54 (n, n') Level 54-Xe-131
 Cross Section -100.0 To 9999. %



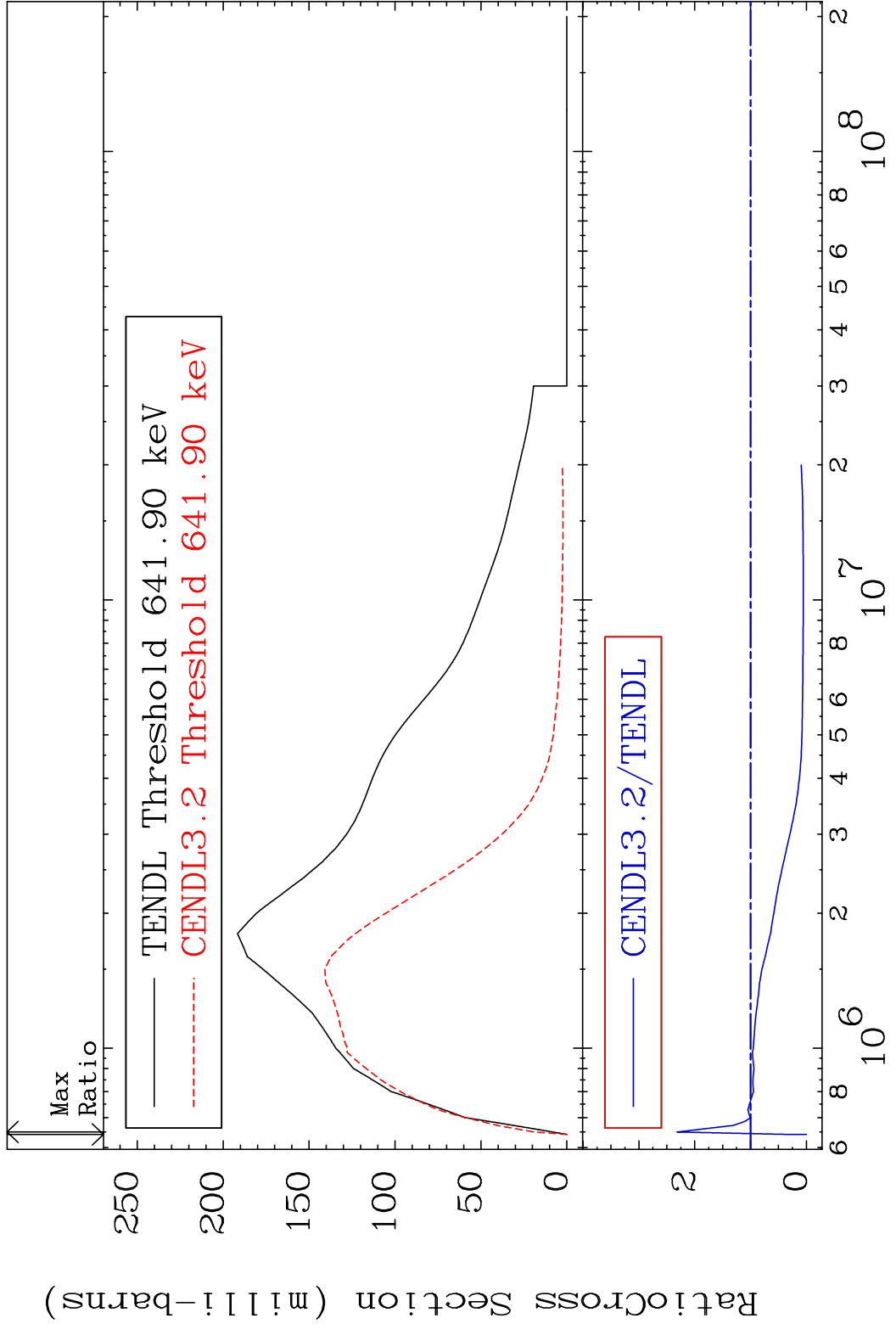
MAT 5446 MT= 55 (n, n') Level 54-Xe-131
 Cross Section -16.86 To 9999. %



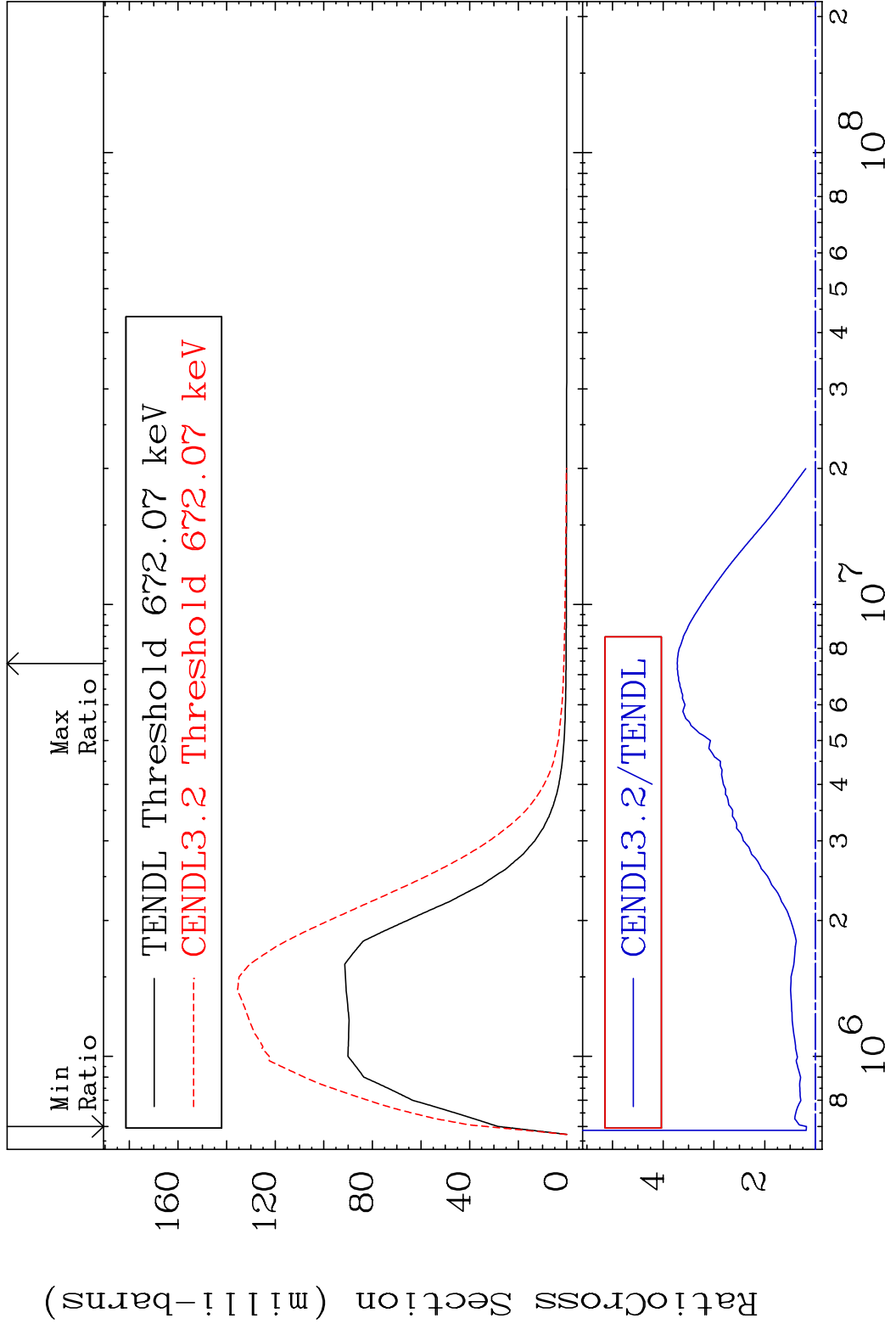
MAT 5446 MT= 56 (n,n') Level 54-Xe-131
 Cross Section -100.0 To -34.95%



MAT 5446 MT= 57 (n, n') Level 54-Xe-131
 Cross Section -100.0 To 131.4 %

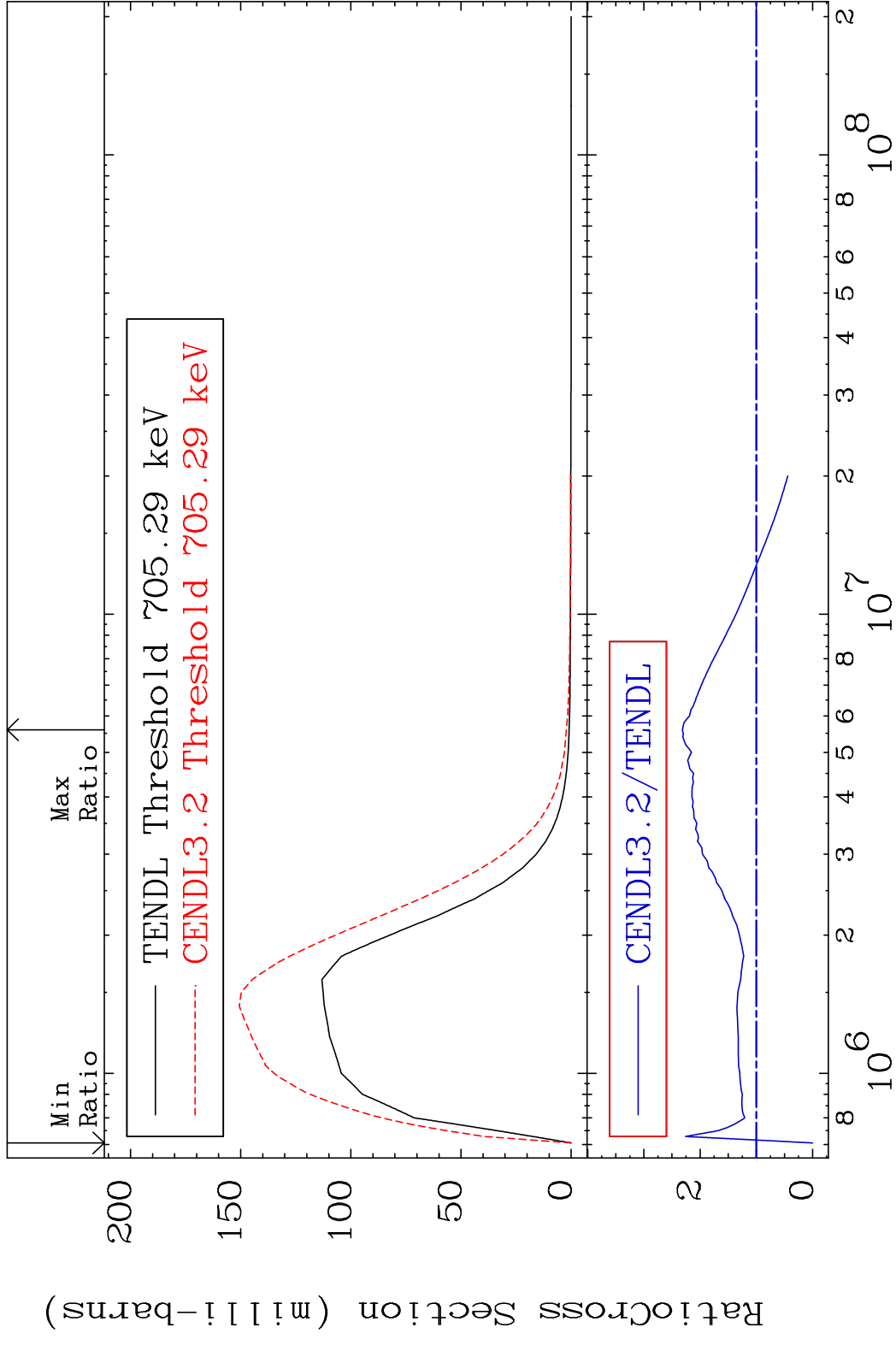


MAT 5446 MT= 58 (n, n') Level 54-Xe-131
 Cross Section 18.03 To 272.5 %



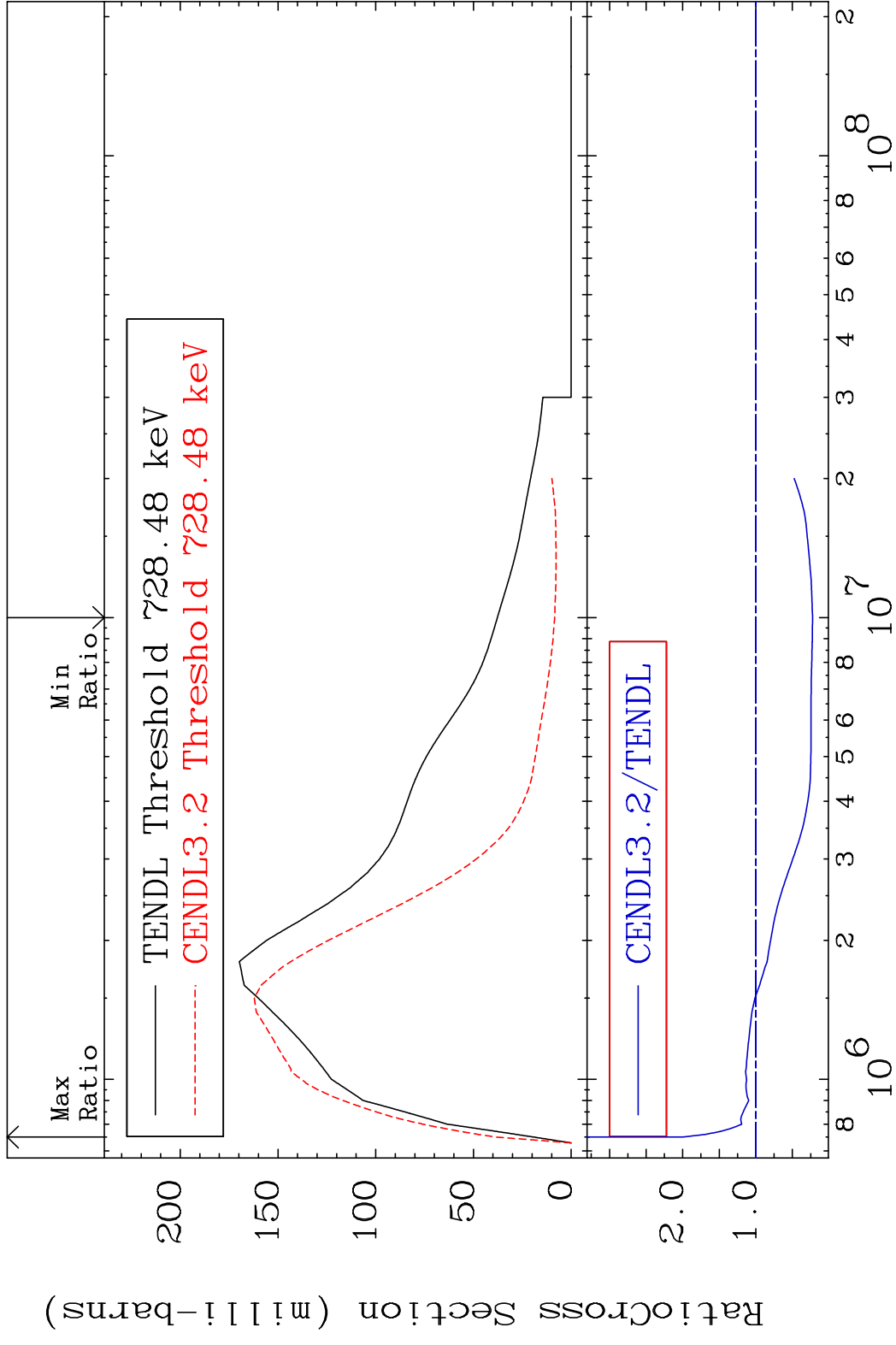
15 Incident Energy (eV) 54-Xe-131

MAT 5446 MT= 59 (n, n') Level 54-Xe-131
 Cross Section -100.0 To 131.6 %



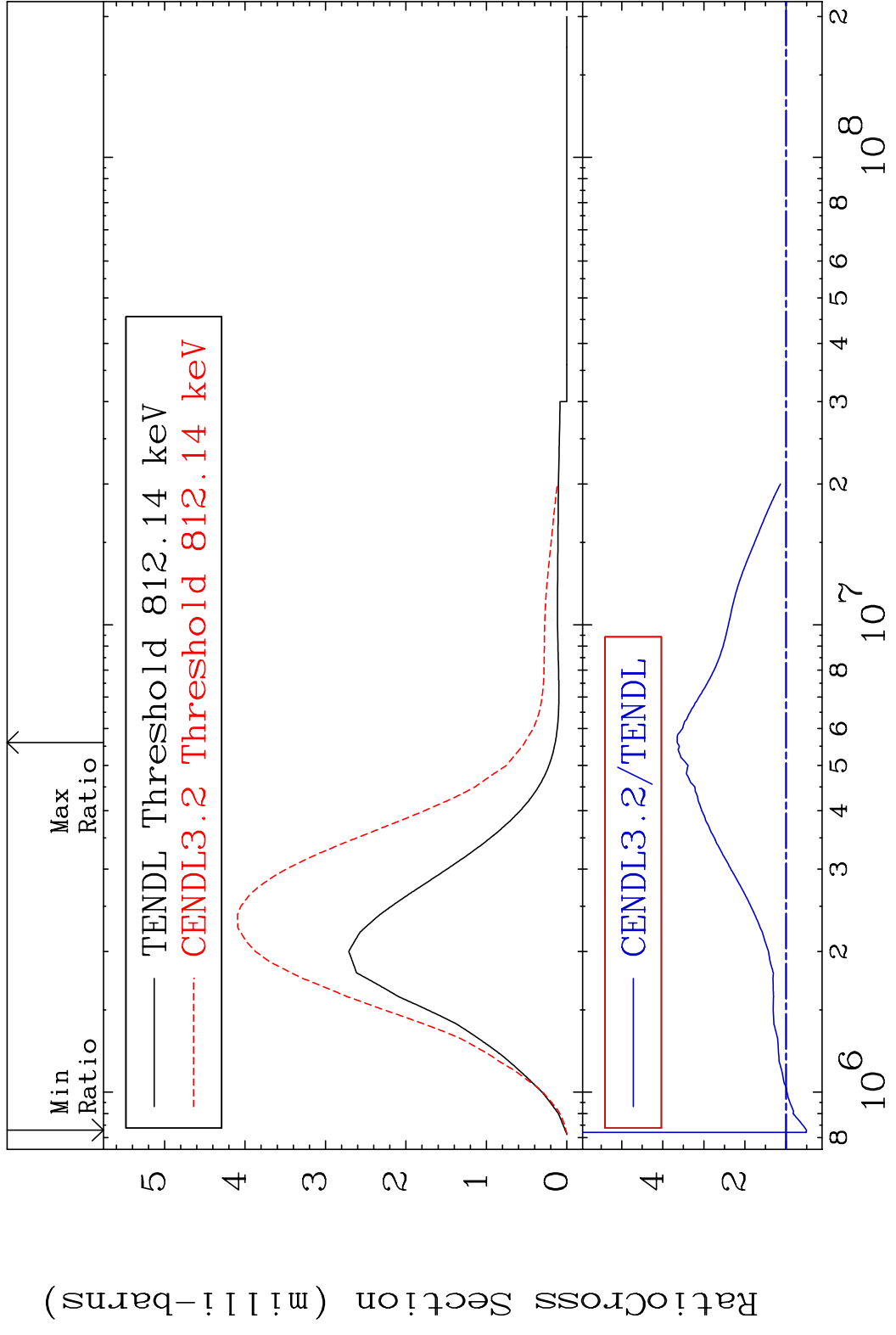
16 Incident Energy (eV) 54-Xe-131

MAT 5446 MT= 60 (n, n') Level 54-Xe-131
 Cross Section -77.58 To 100.4 %



17 Incident Energy (eV) 54-Xe-131

MAT 5446 MT= 61 (n, n') Level 54-Xe-131
 Cross Section -49.54 To 265.0 %

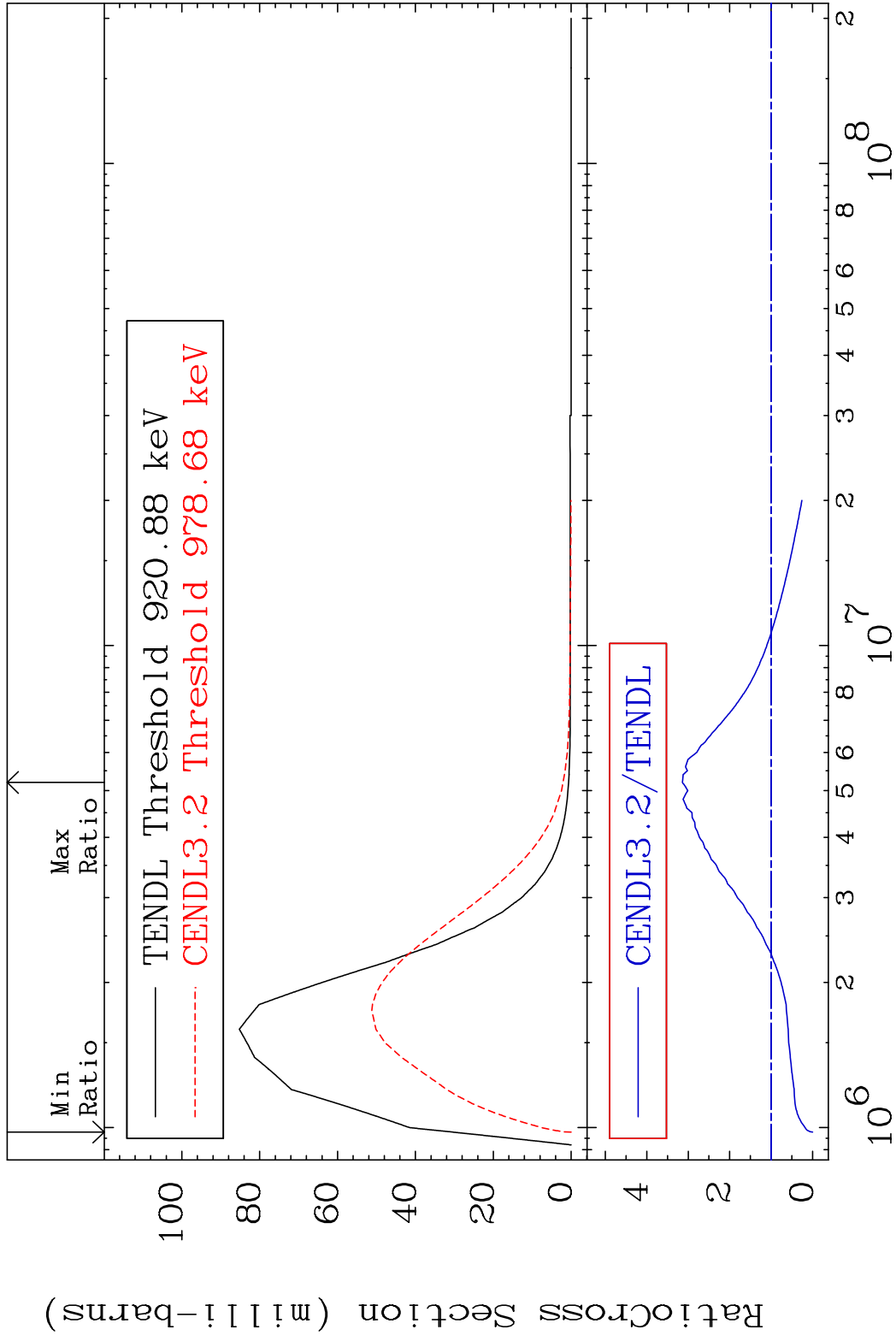


18 18 Incident Energy (eV) 54-Xe-131

MAT 5446

MT= 62 (n, n') Level 54-Xe-131

Cross Section -100.0 To 214.1 %



19

Incident Energy (eV)

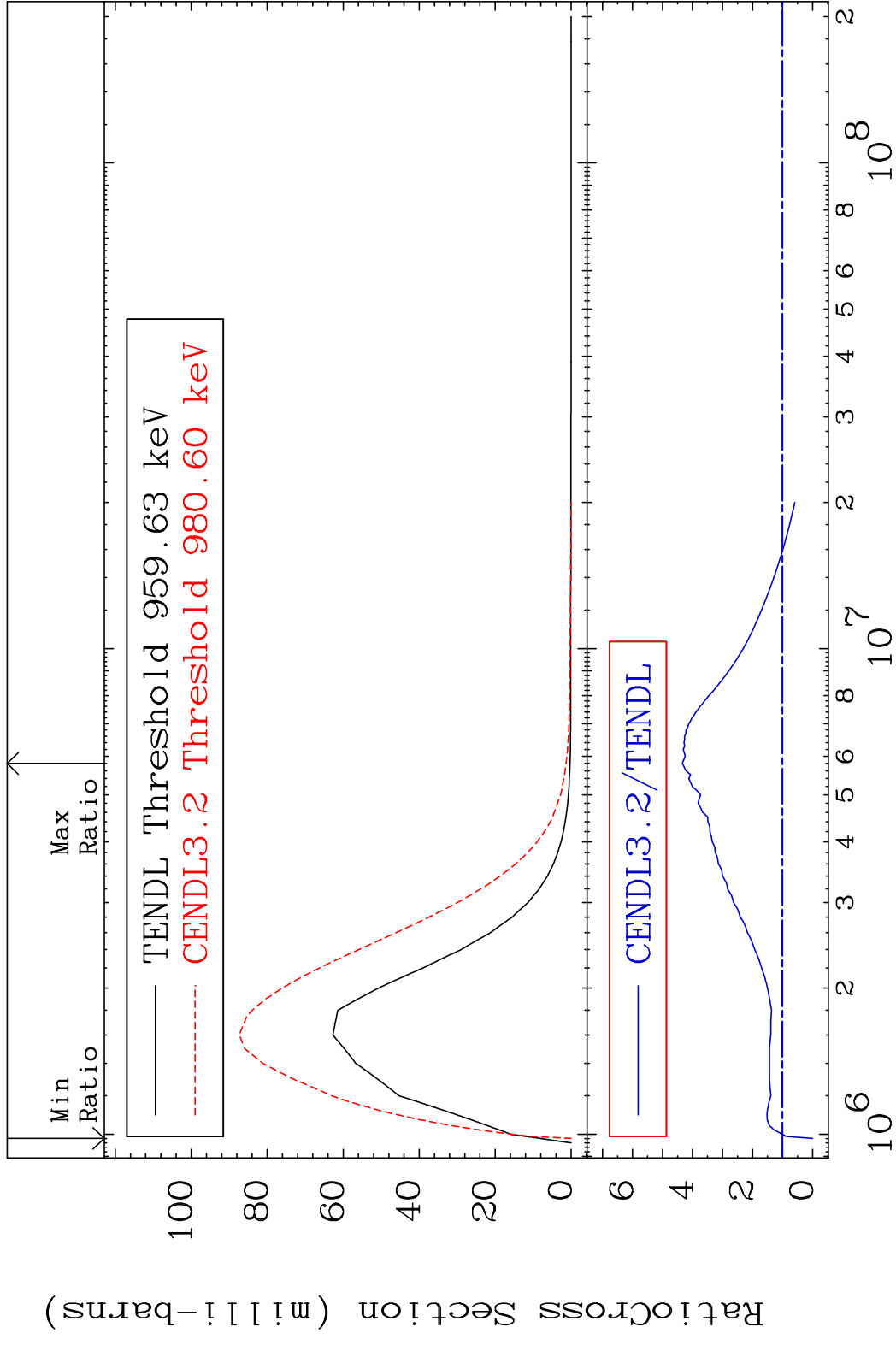
54-Xe-131

MAT 5446

MT= 63 (n, n') Level

54-Xe-131

Cross Section -100.0 To 333.9 %

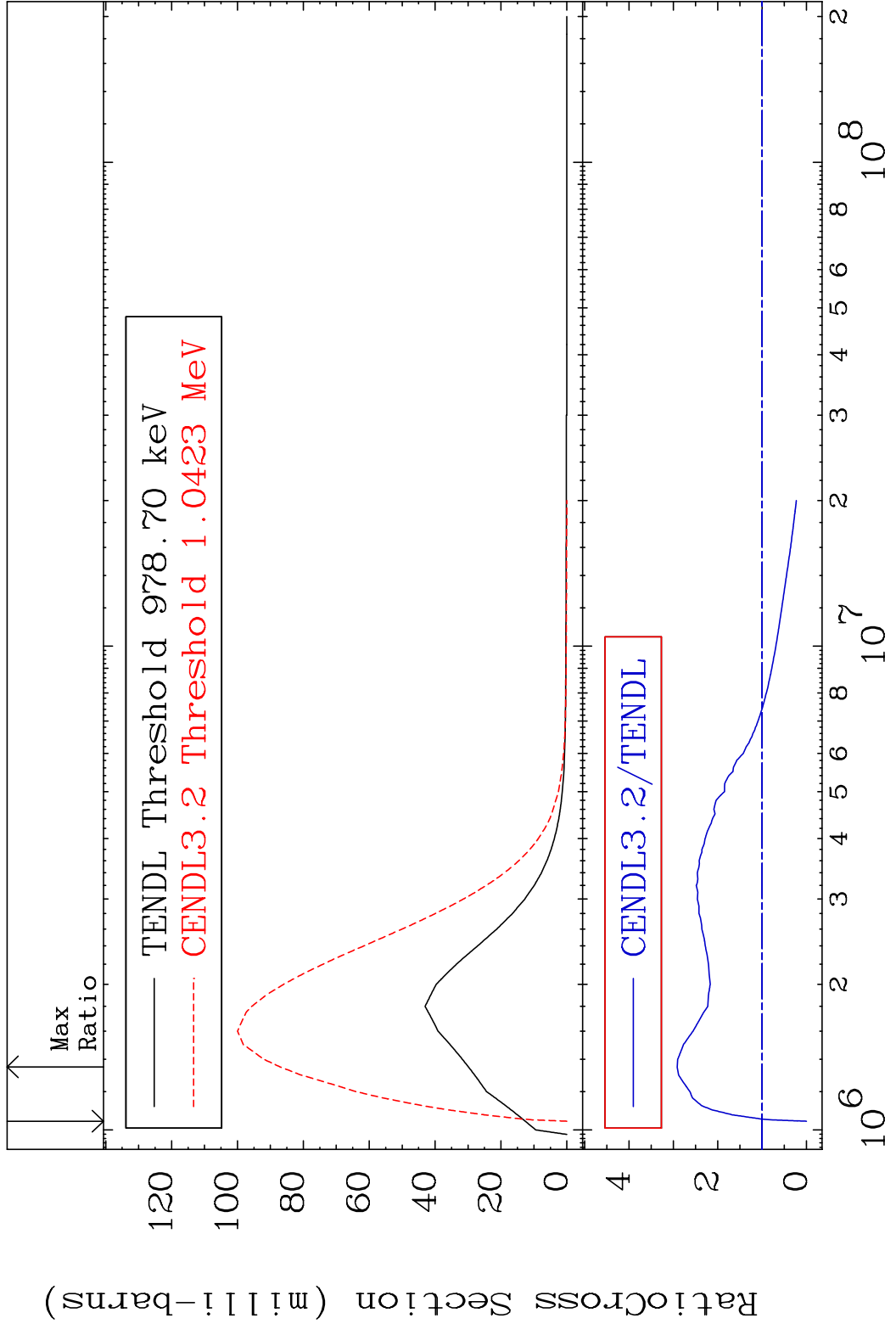


20

Incident Energy (eV)

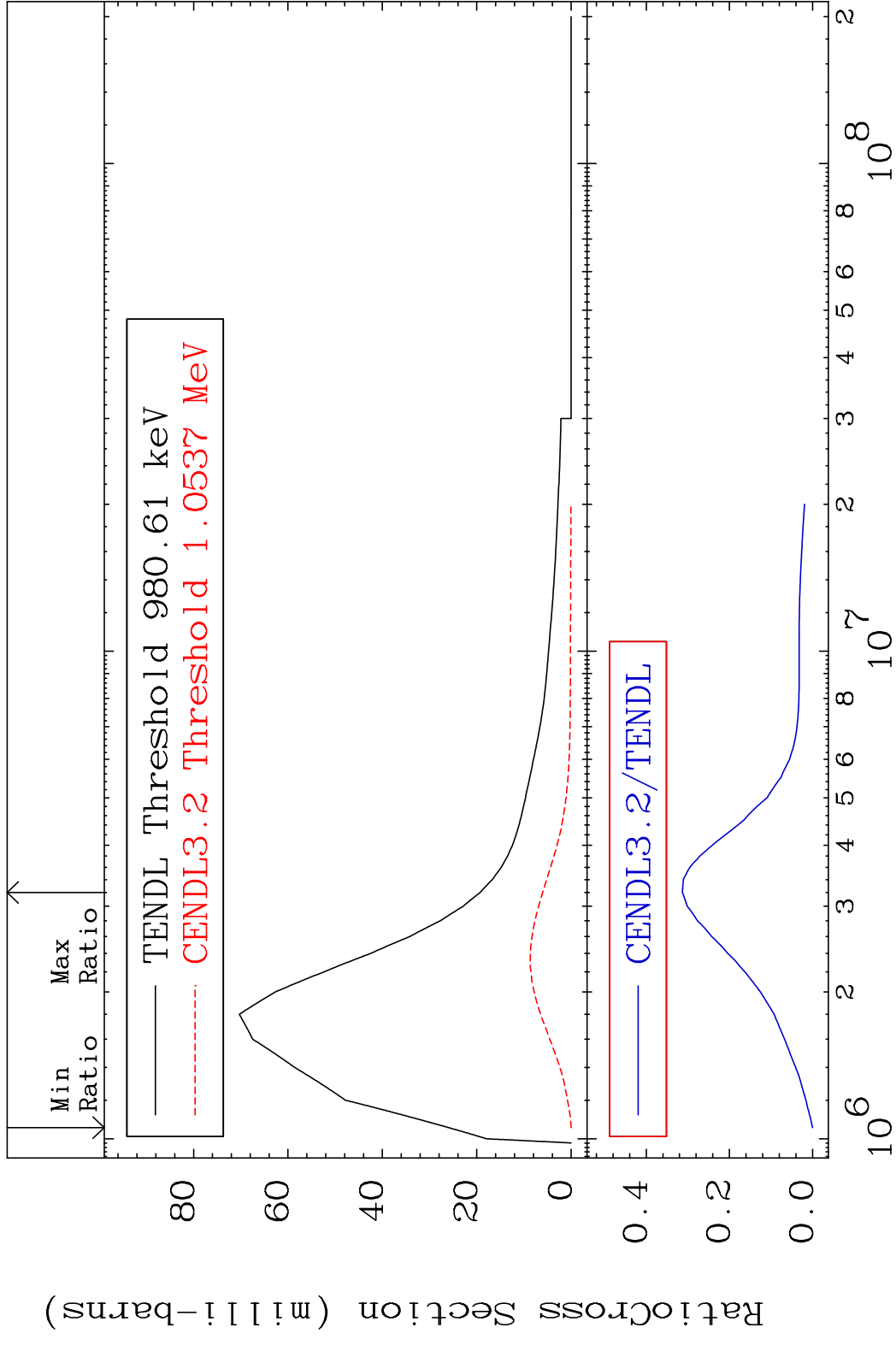
54-Xe-131

MAT 5446 MT= 64 (n, n') Level 54-Xe-131
 Cross Section -100.0 To 191.3 %

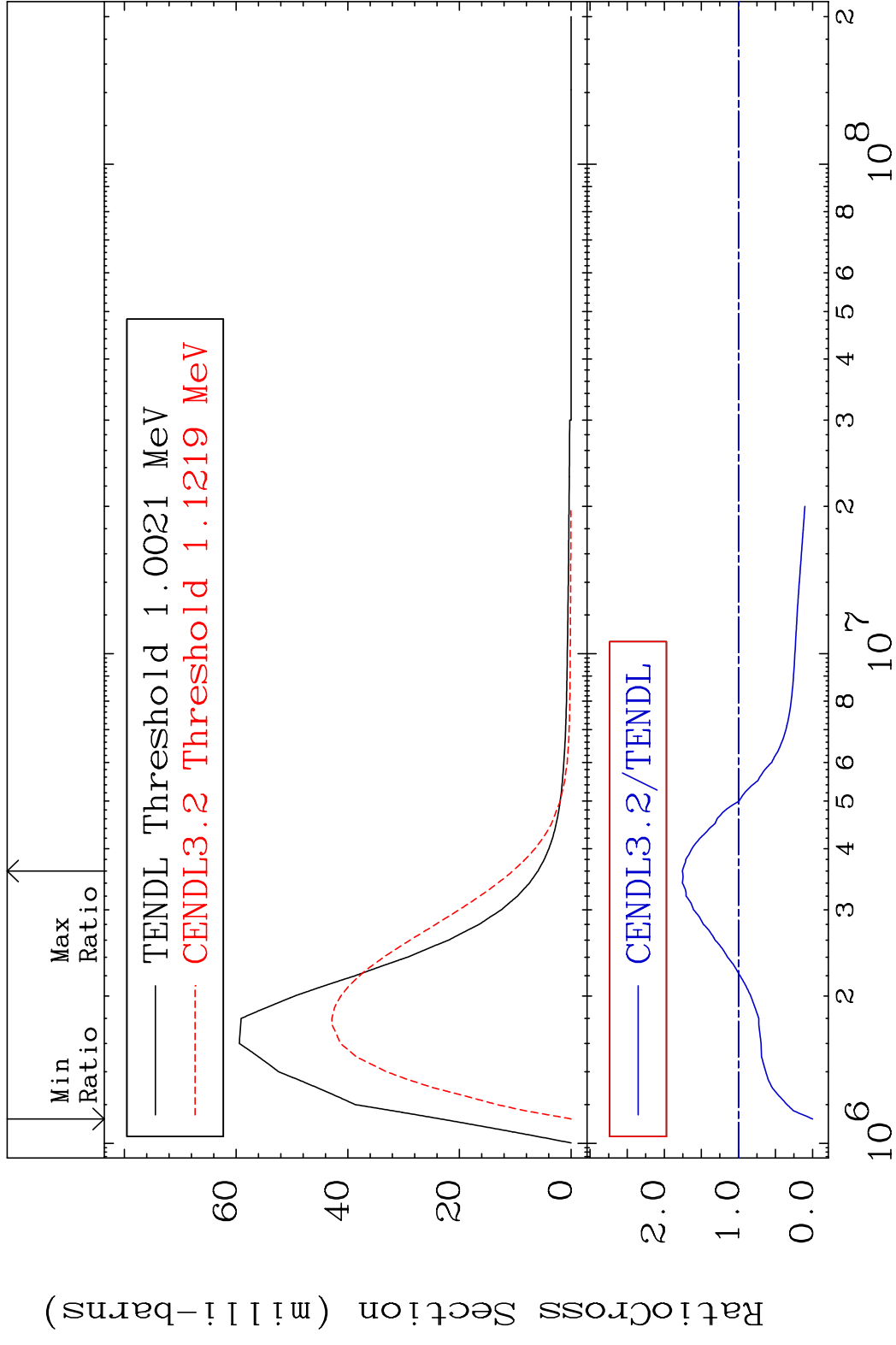


21 Incident Energy (eV) 54-Xe-131

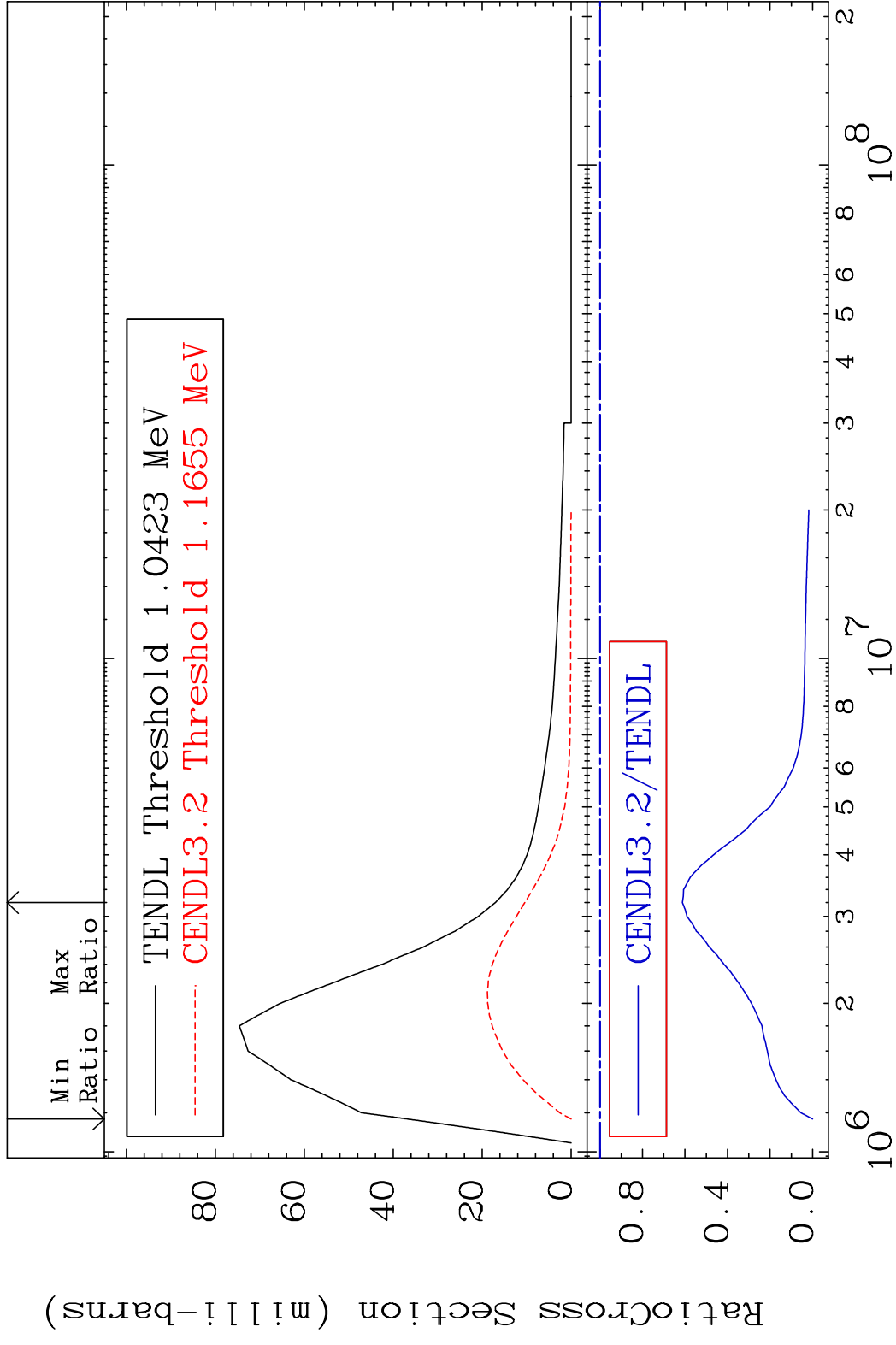
MAT 5446 MT= 65 (n, n') Level 54-Xe-131
 Cross Section -100.0 To -68.68%



MAT 5446 MT= 66 (n, n') Level 54-Xe-131
 Cross Section -100.0 To 75.60 %

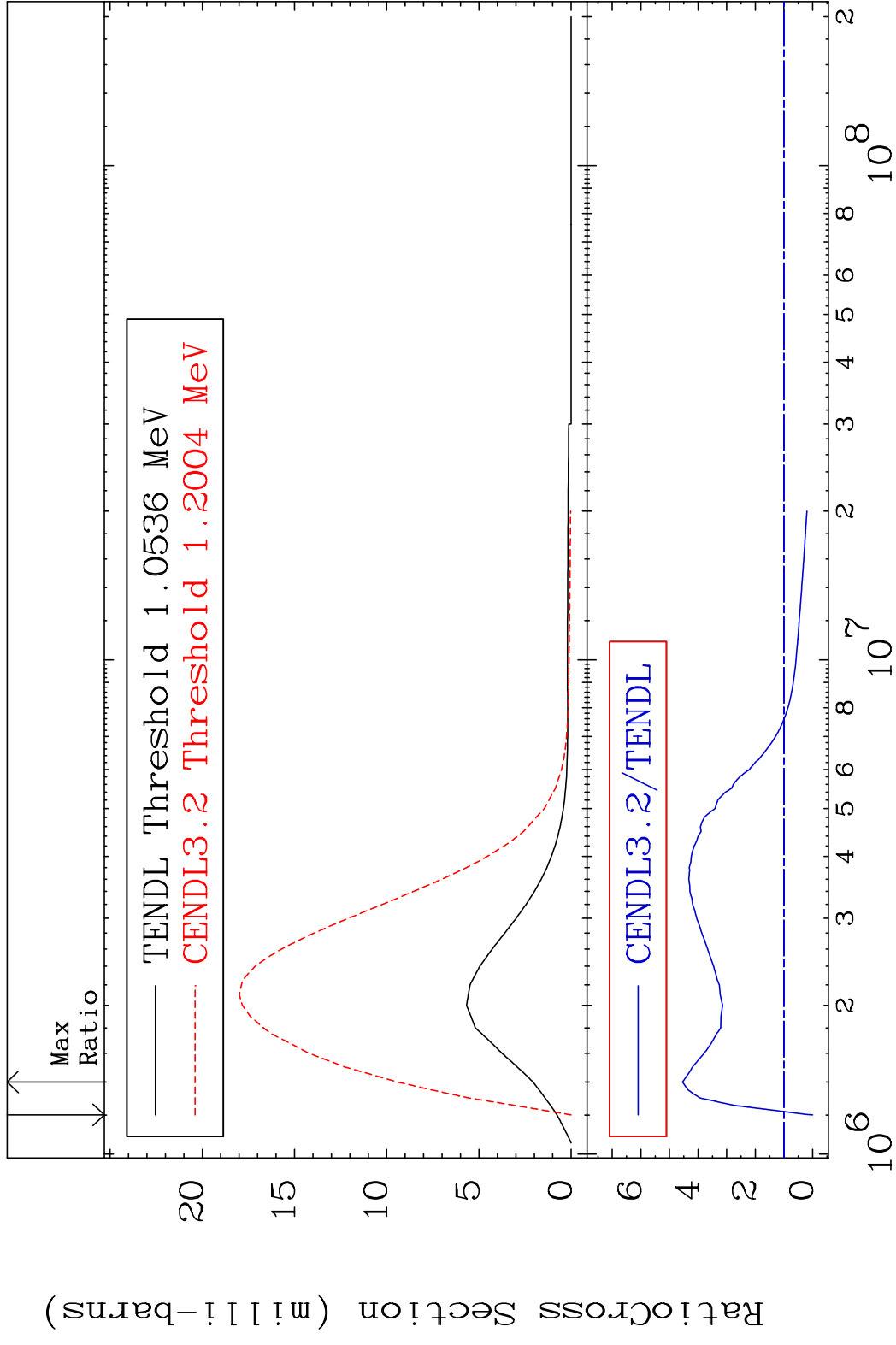


MAT 5446 MT= 67 (n, n') Level 54-Xe-131
 Cross Section -100.0 To -38.76%



24 Incident Energy (eV) 54-Xe-131

MAT 5446 MT= 68 (n, n') Level 54-Xe-131
 Cross Section -100.0 To 355.0 %



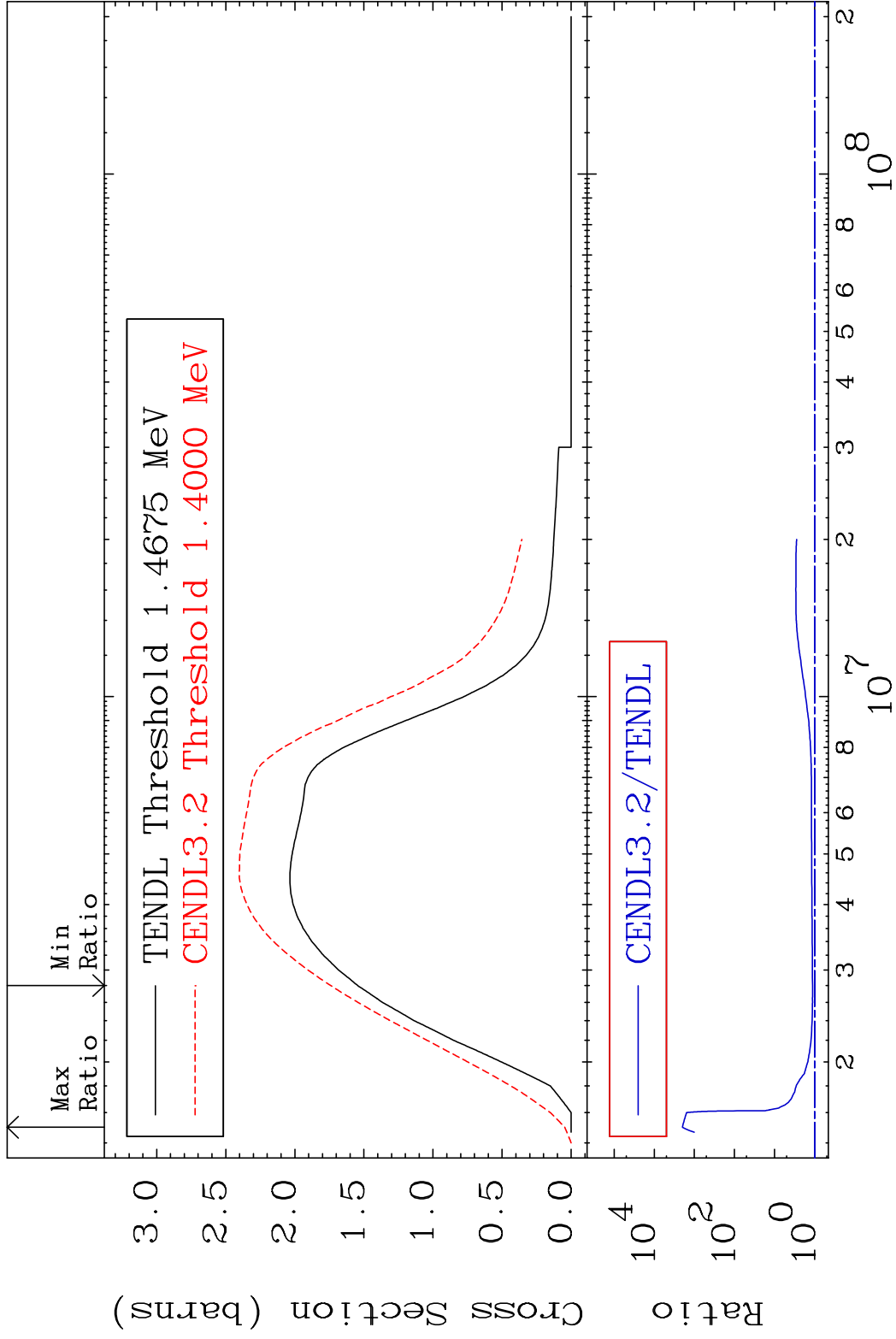
25 Incident Energy (eV) 54-Xe-131

MAT 5446

(n, n') Continuum

54-Xe-131

Cross Section 12.66 To 9999. %

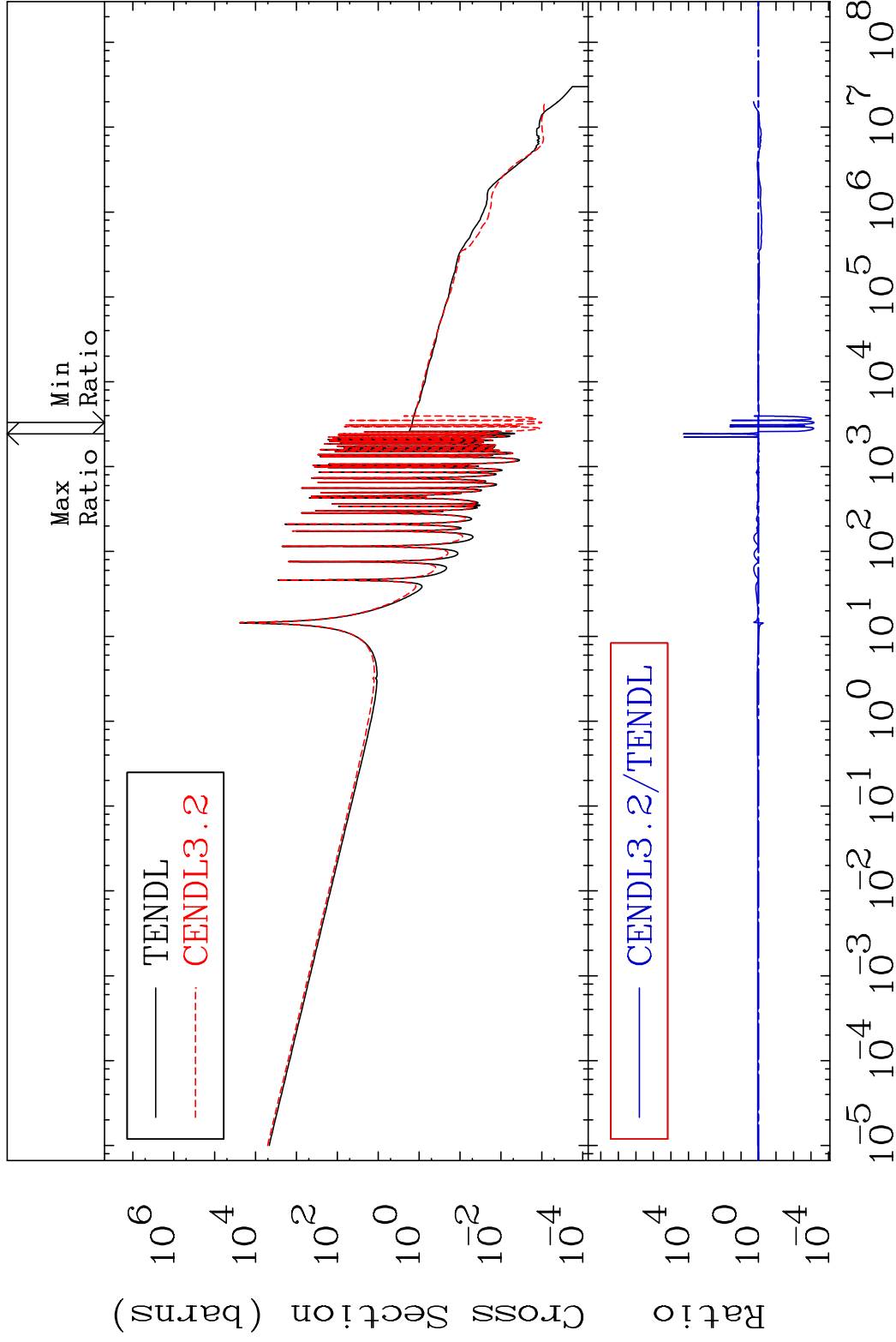


MAT 5446

(n, γ)

54-Xe-131

Cross Section -99.93 To 9999. %



27

Incident Energy (eV)

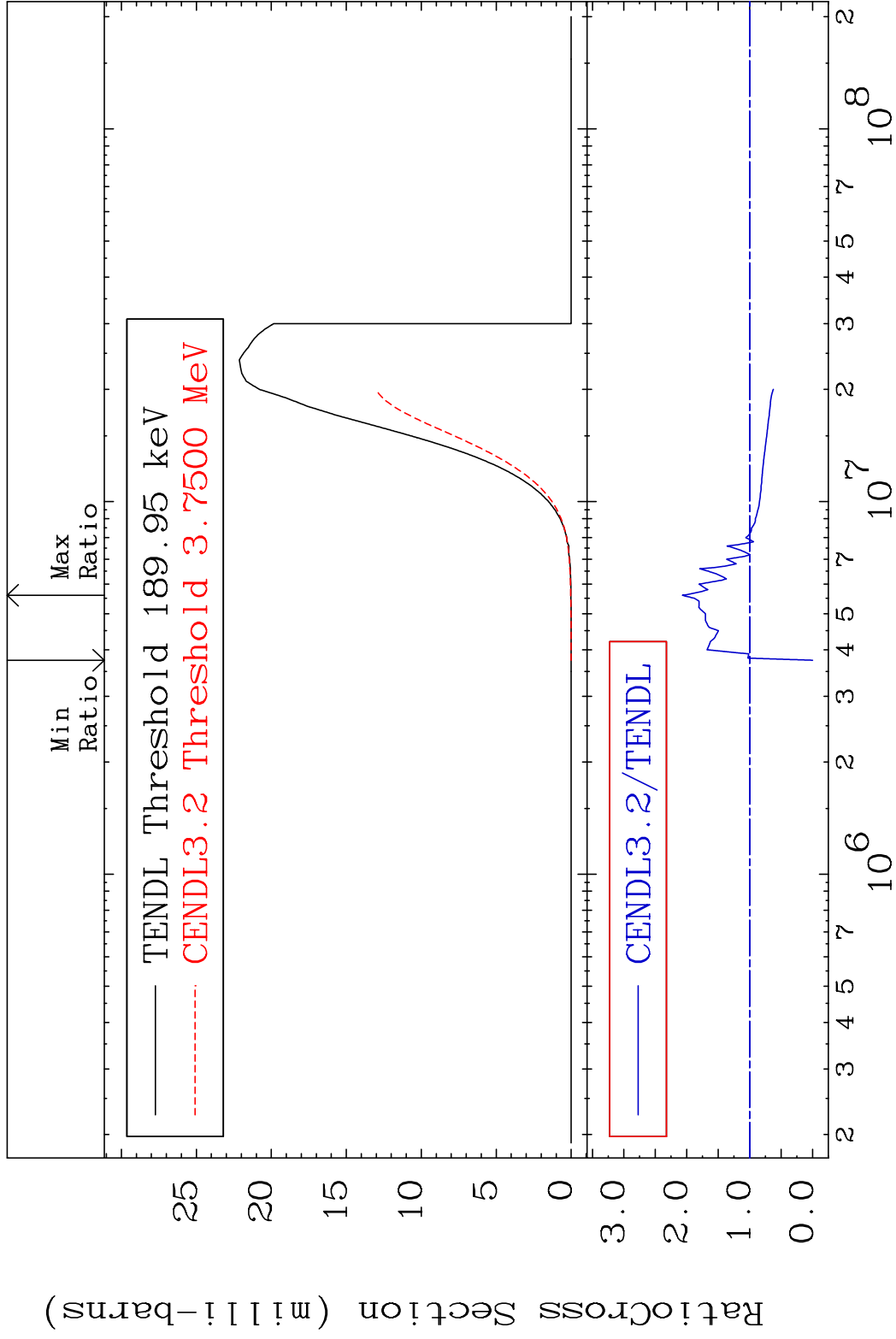
54-Xe-131

MAT 5446

(n, p)

54-Xe-131

Cross Section -100.0 To 107.0 %

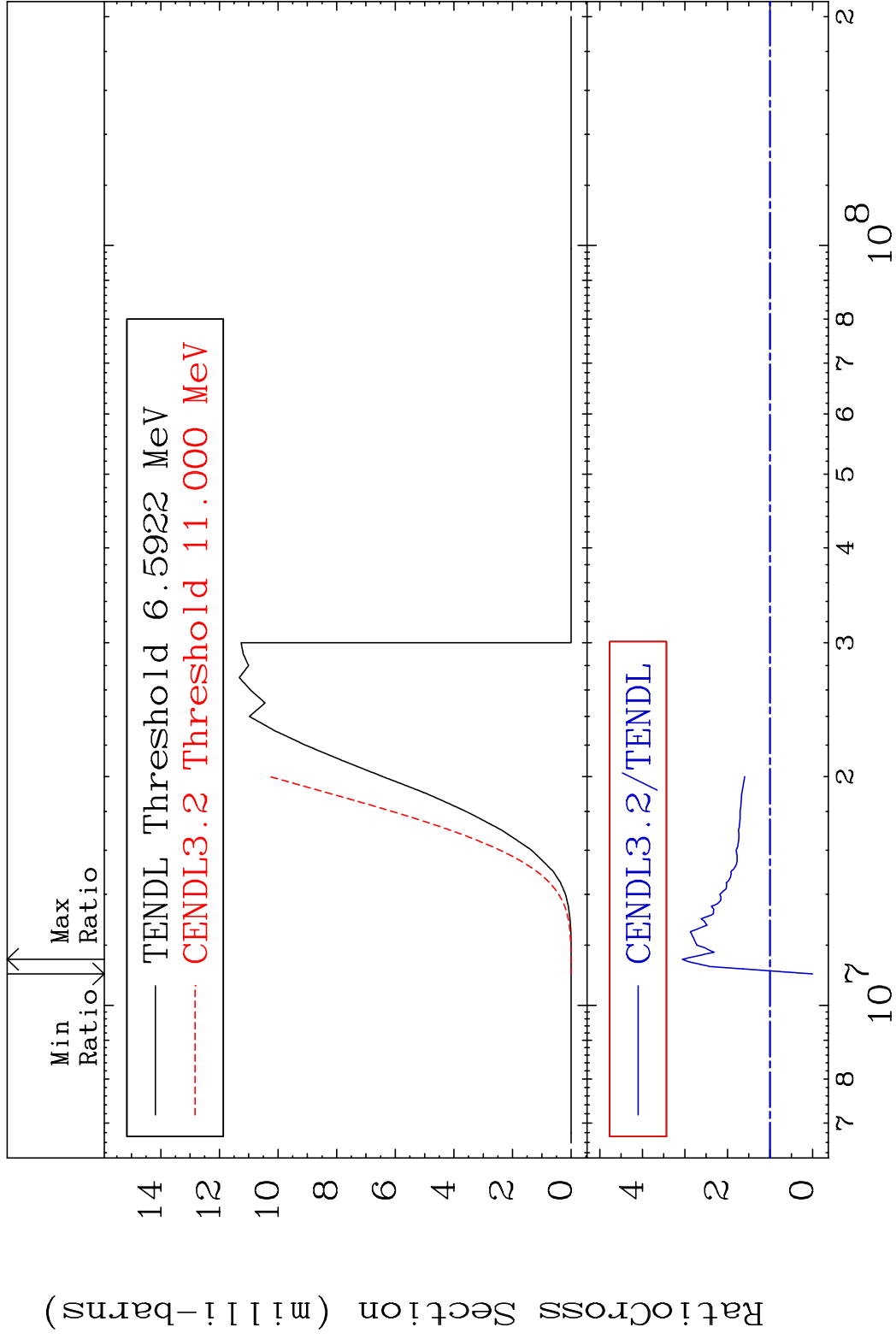


MAT 5446

(n, d)

54-Xe-131

Cross Section -100.0 To 206.1 %



29

Incident Energy (eV)

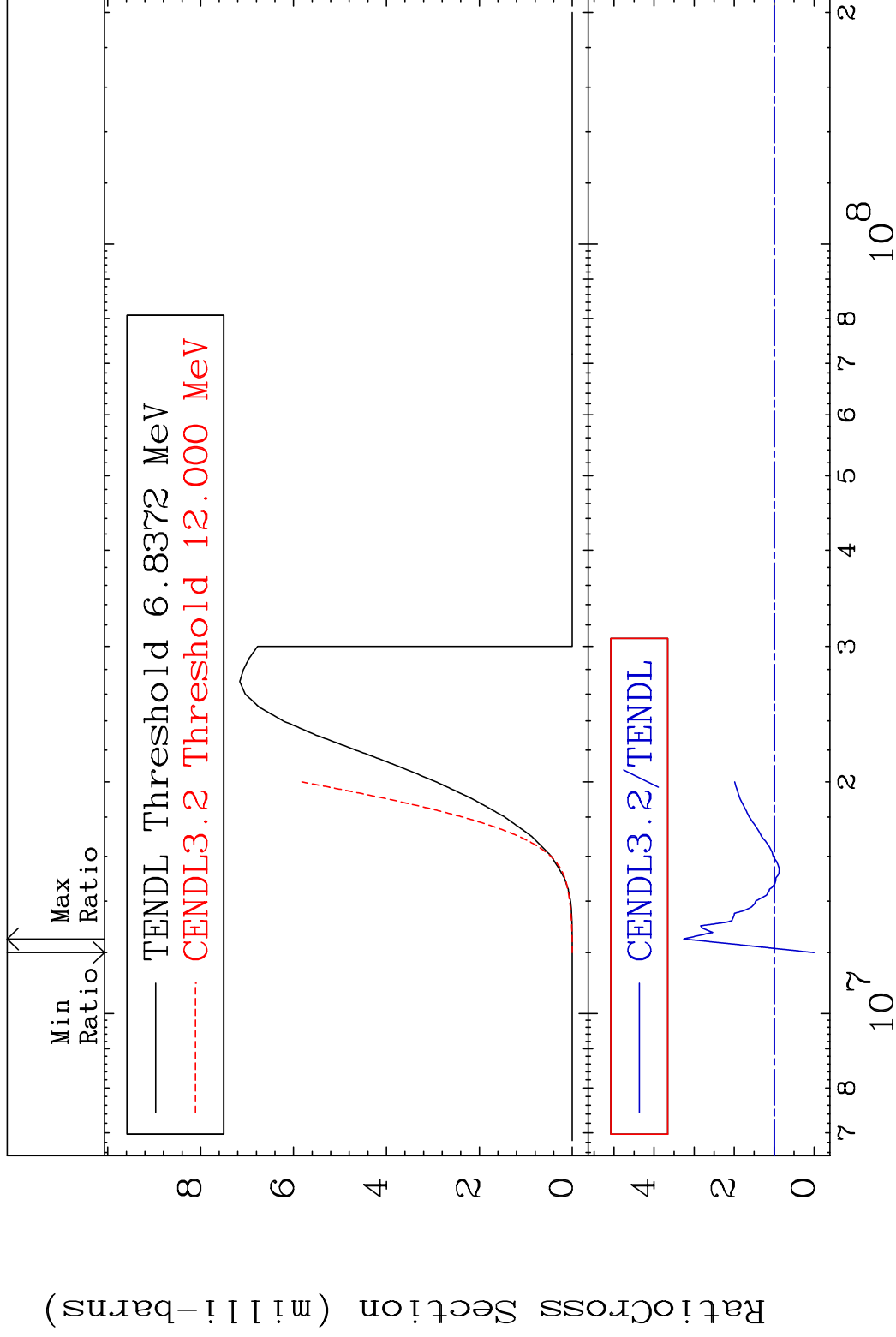
54-Xe-131

MAT 5446

(n, t)

54-Xe-131

Cross Section -100.0 To 226.1 %



30

Incident Energy (eV)

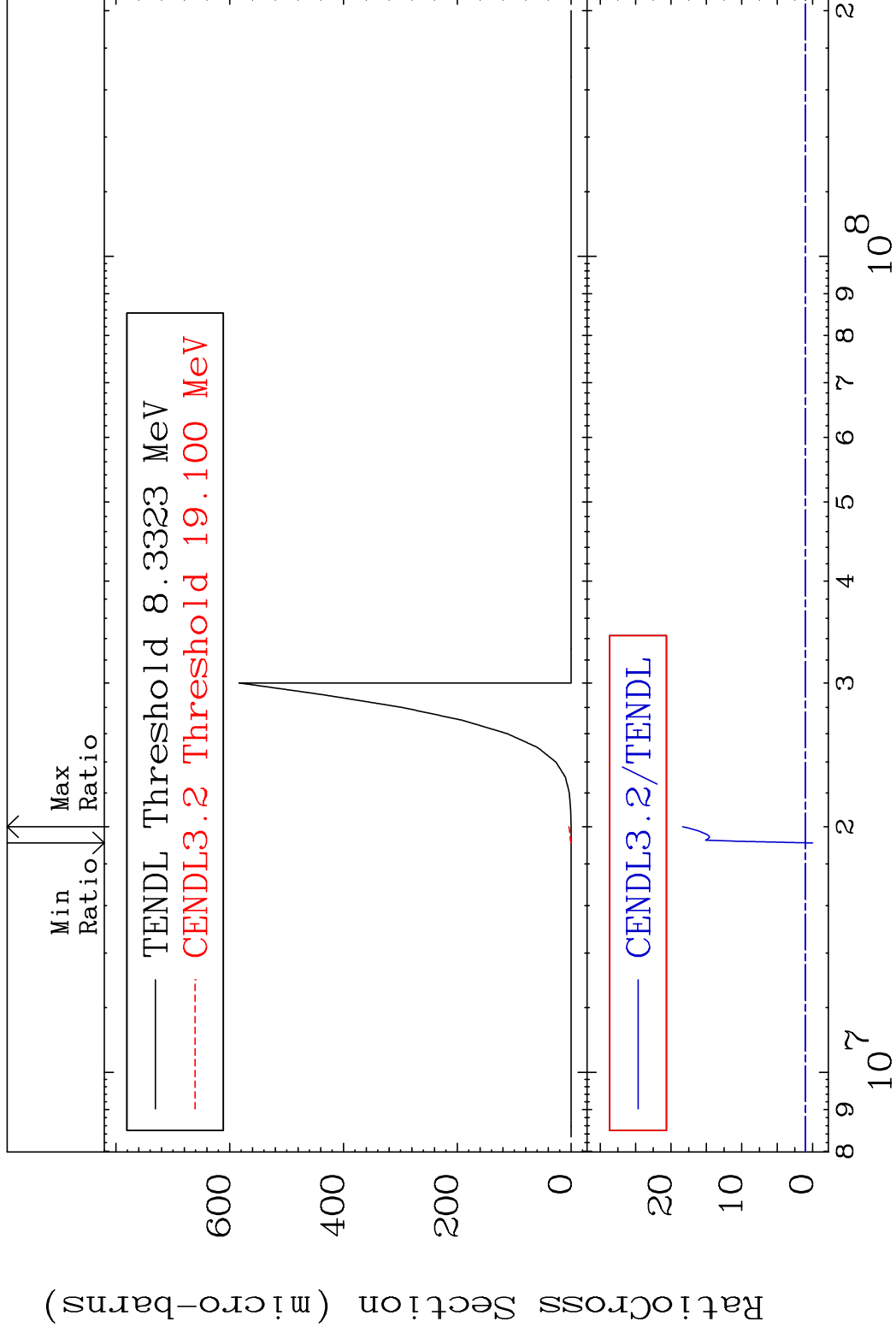
54-Xe-131

MAT 5446

(n, He-3)

54-Xe-131

Cross Section -100.0 To 1740. %



31

Incident Energy (eV)

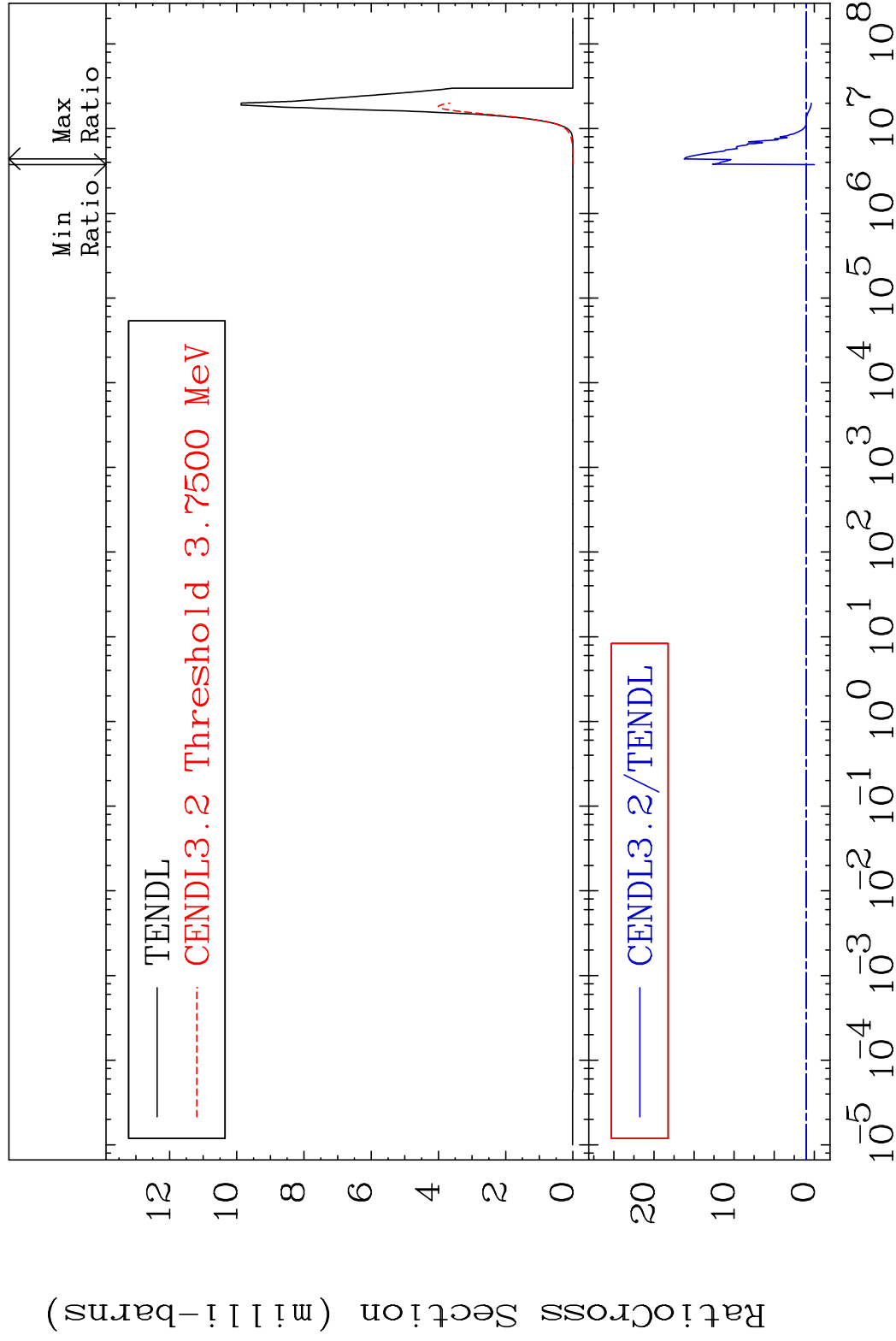
54-Xe-131

MAT 5446

(n, α)

54-Xe-131

Cross Section -100.0 To 1525. %

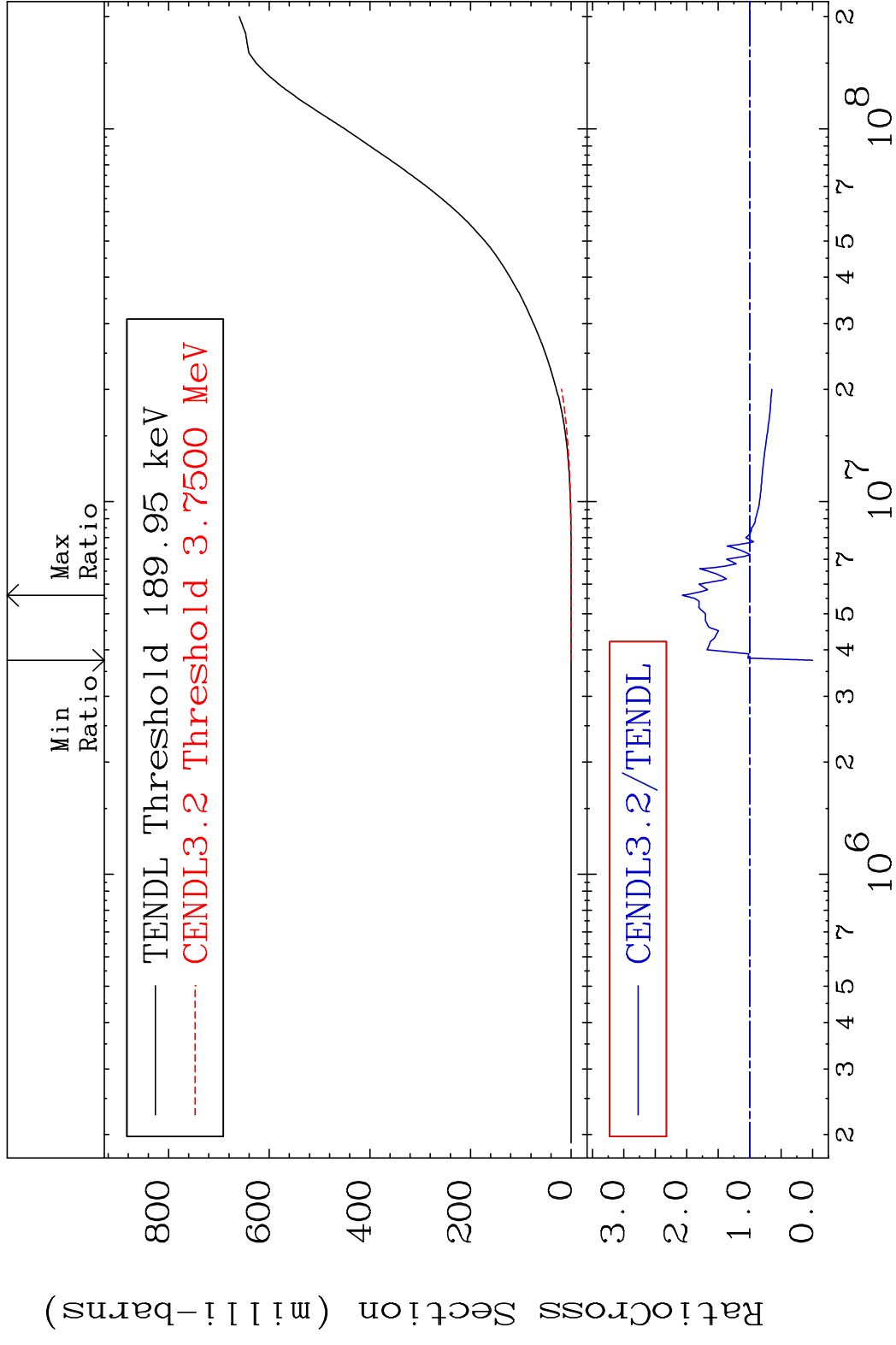


32

Incident Energy (eV)

54-Xe-131

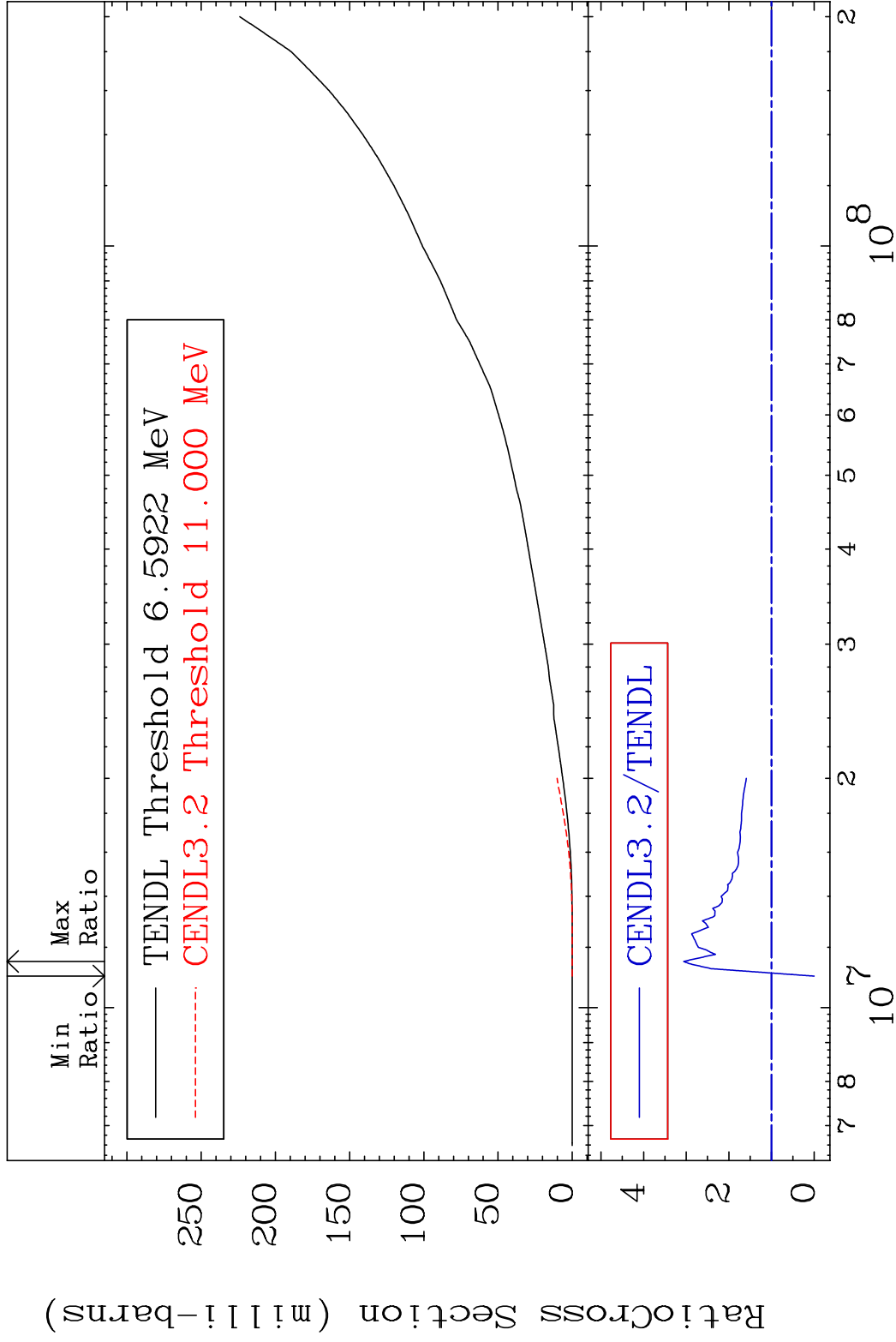
MAT 5446 Hydrogen Production 54-Xe-131
 Cross Section -100.0 To 107.0 %



MAT 5446

Deuterium Production 54-Xe-131

Cross Section -100.0 To 206.1 %



34

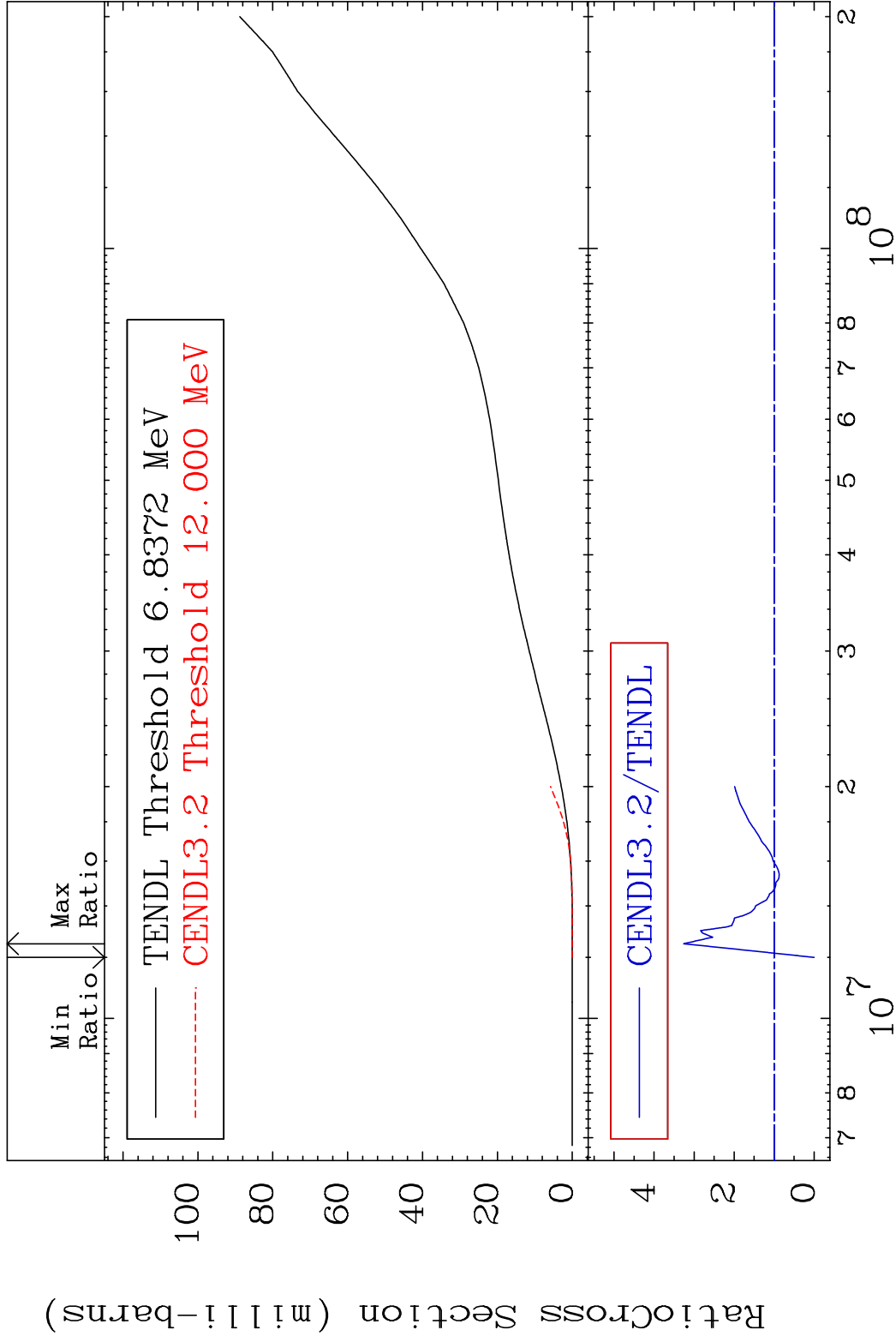
Incident Energy (eV)

54-Xe-131

MAT 5446

Tritium Production 54-Xe-131

Cross Section -100.0 To 226.1 %



35

Incident Energy (eV)

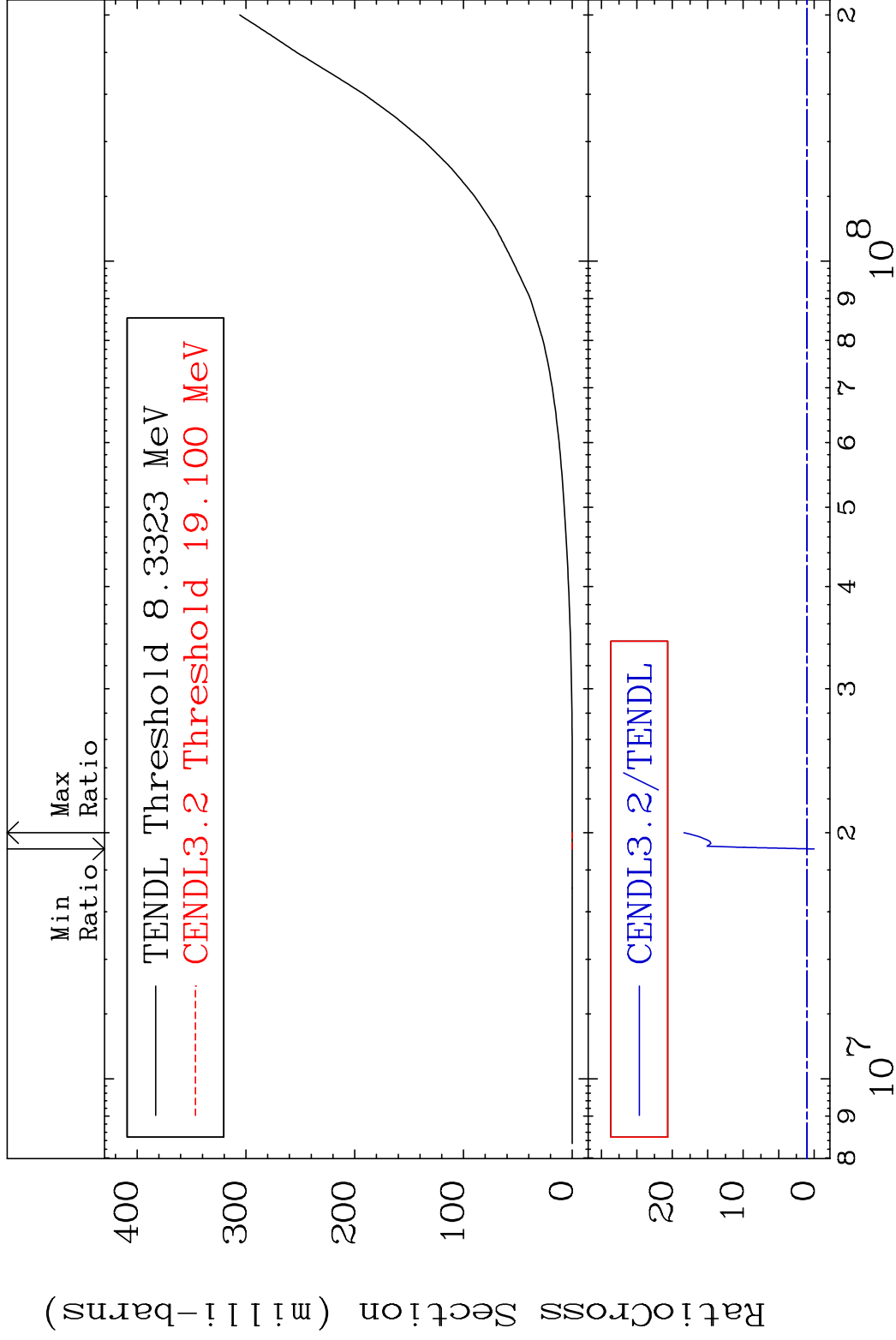
54-Xe-131

MAT 5446

He-3 Production

54-Xe-131

Cross Section -100.0 To 1740. %



36

Incident Energy (eV)

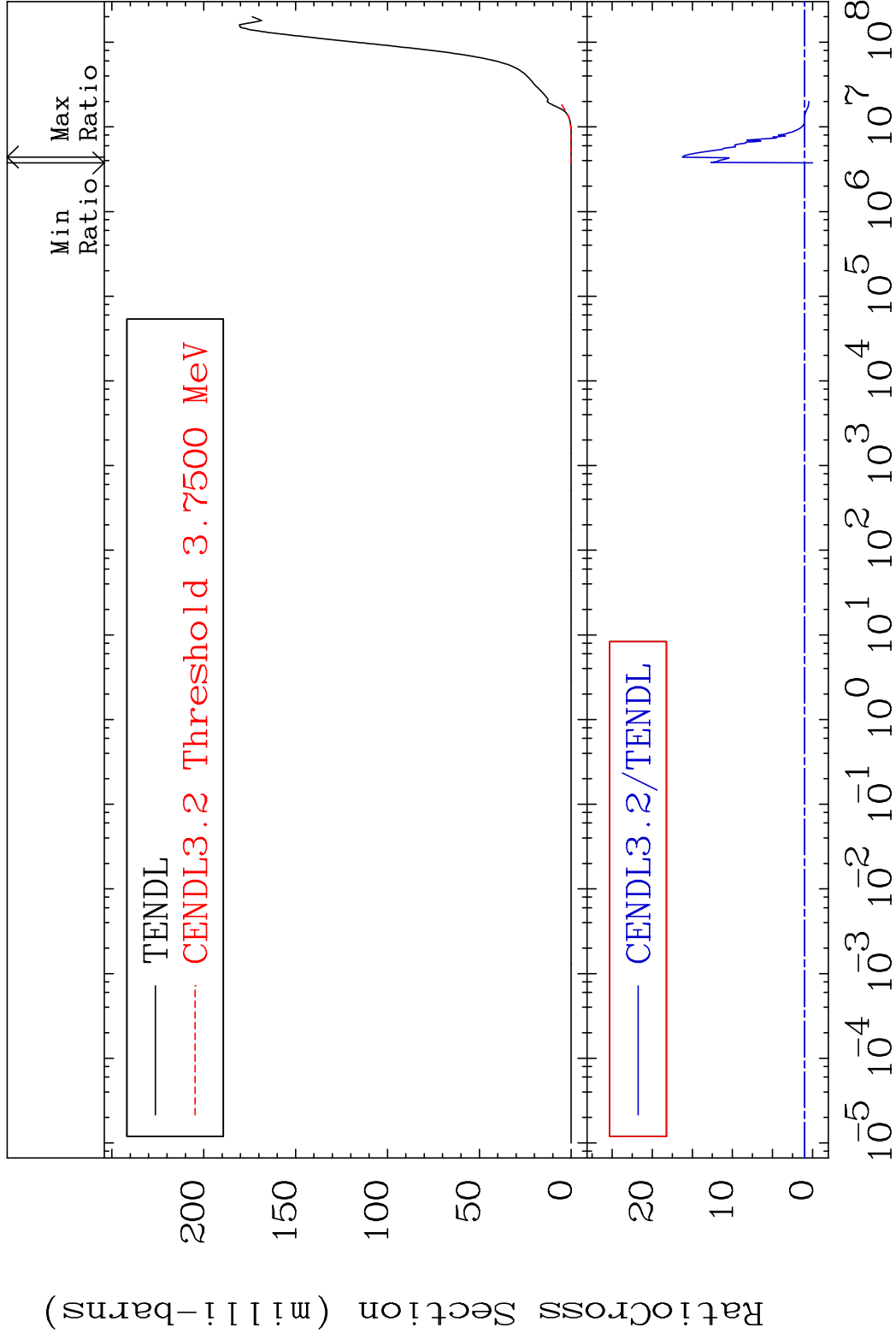
54-Xe-131

MAT 5446

He-4 Production

54-Xe-131

Cross Section -100.0 To 1525. %

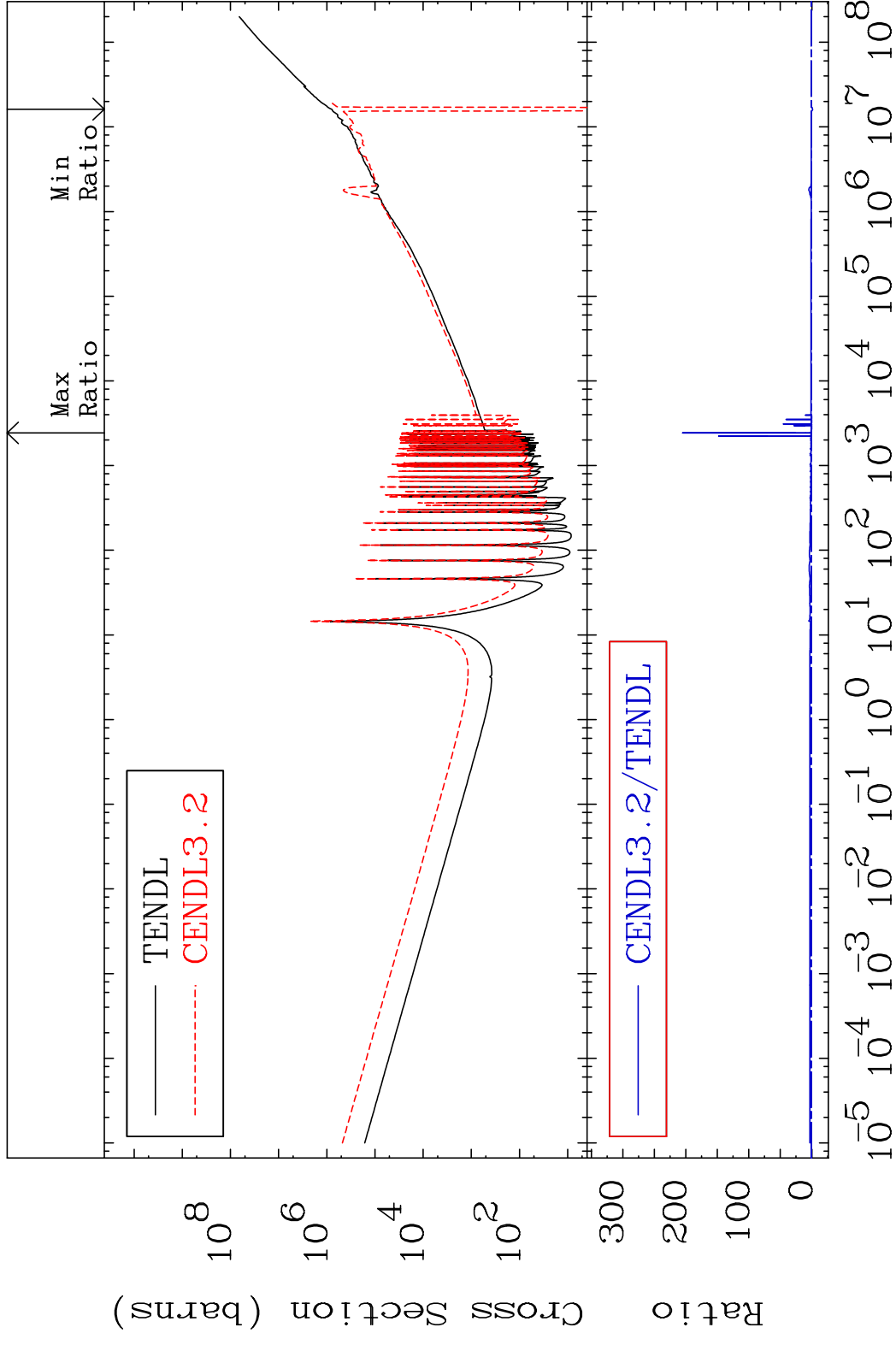


37

Incident Energy (eV)

54-Xe-131

MAT 5446 Kerma total (eV-barns) 54-Xe-131
 Cross Section -218.7 To 9999. %



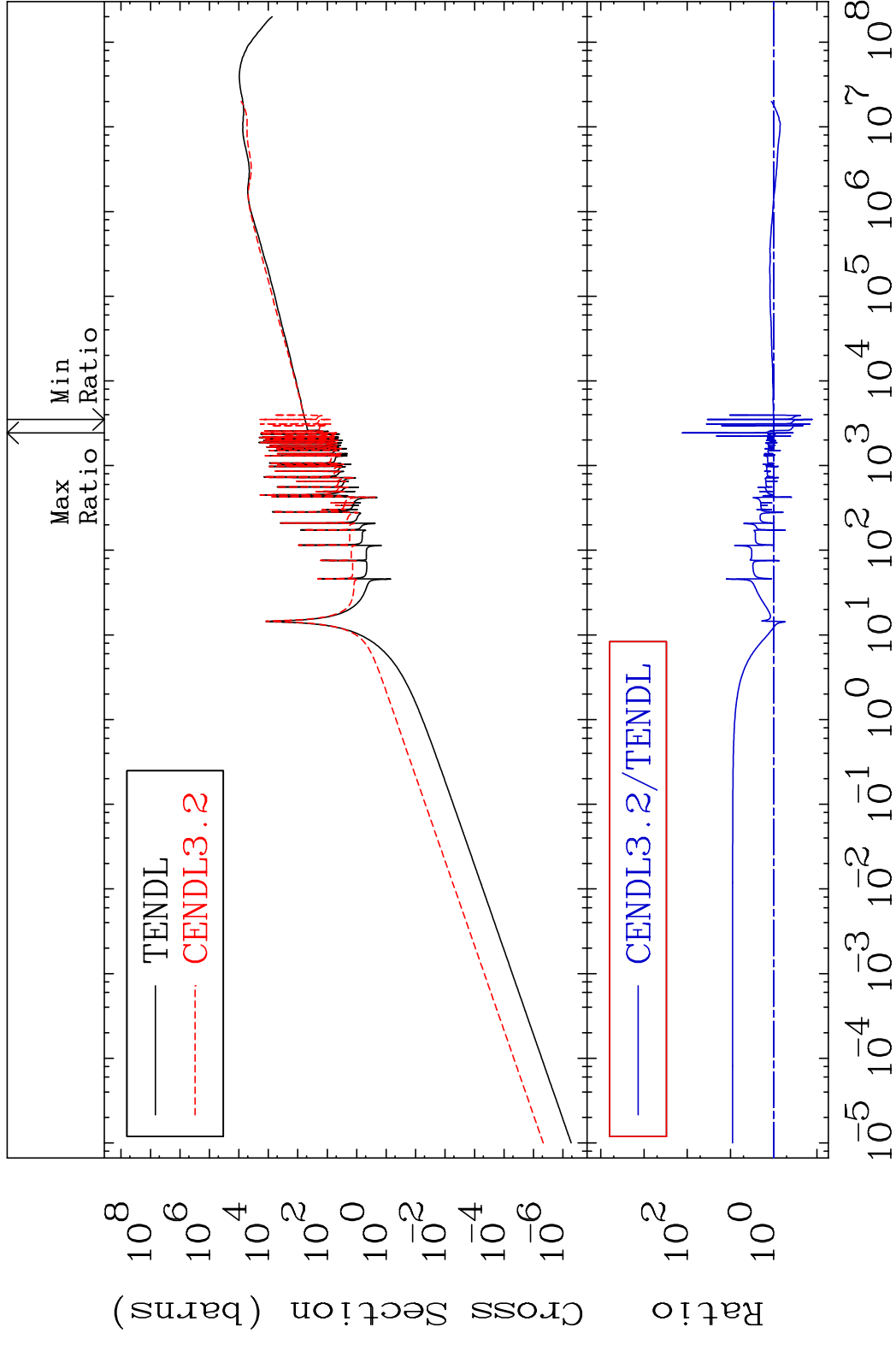
MAT 5446

Kerma elastic

54-Xe-131

Cross Section

-87.38 To 9999. %

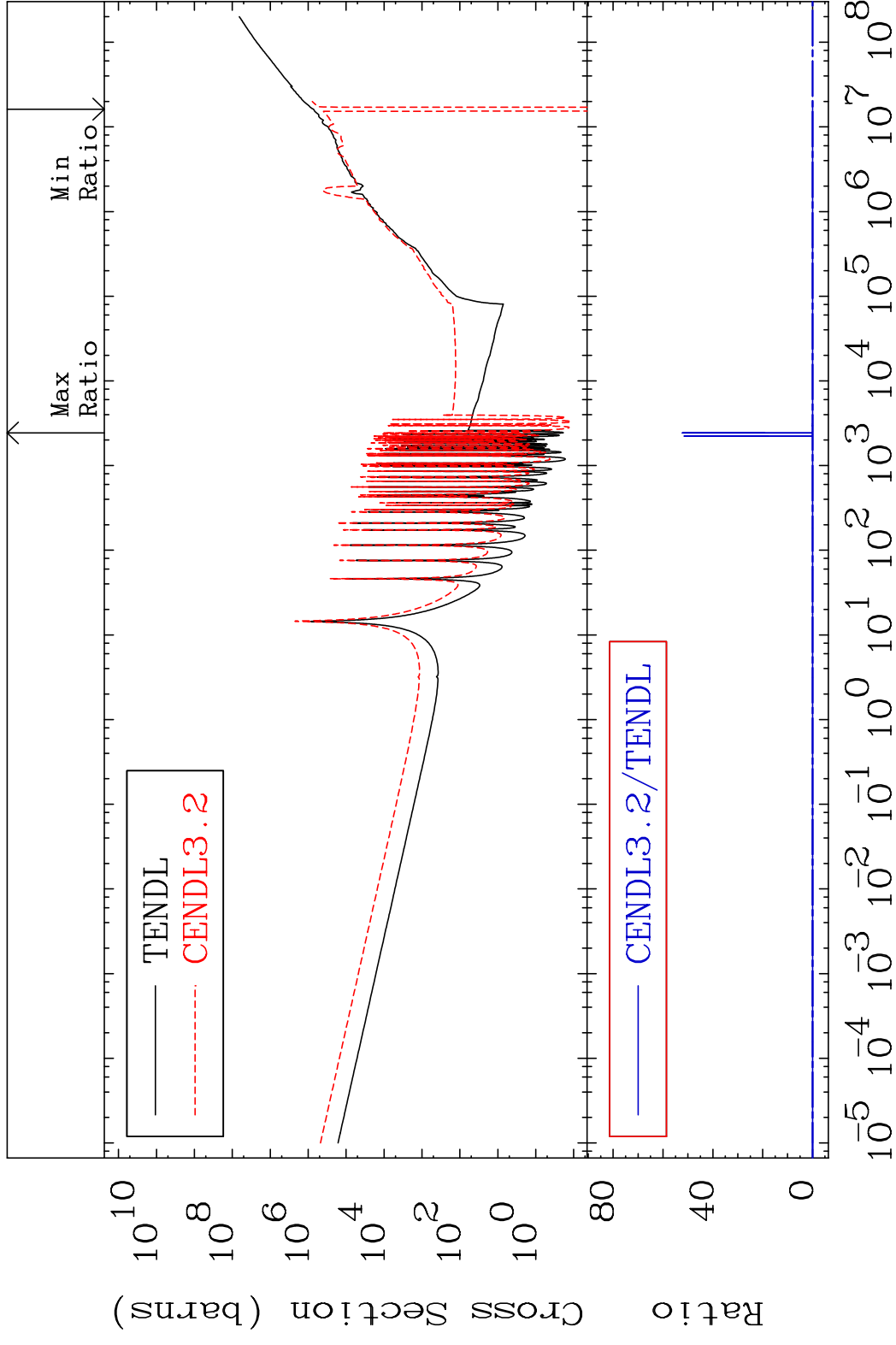


39

Incident Energy (eV)

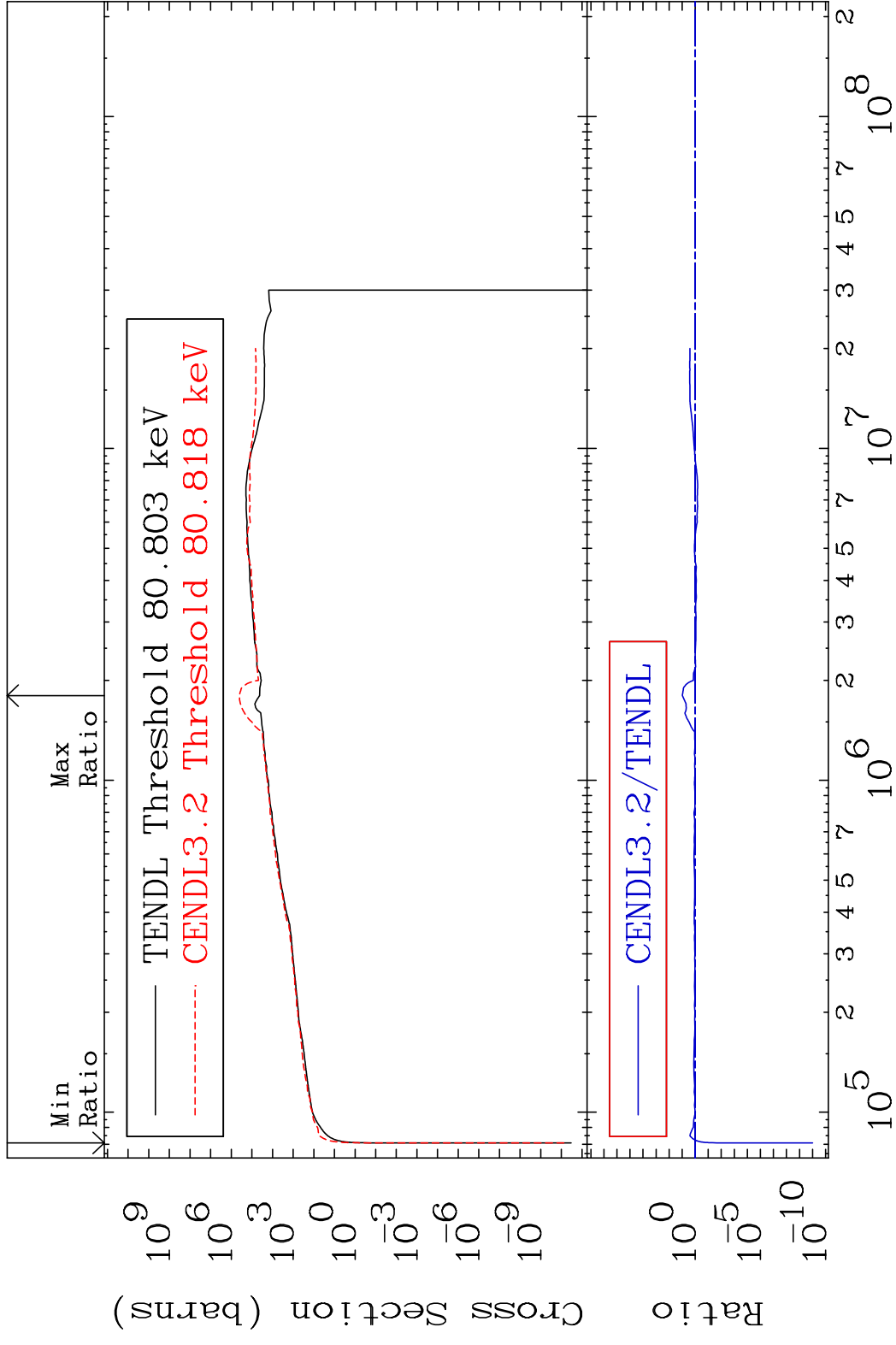
54-Xe-131

MAT 5446 Kerma non-elastic (all but mt2) 54-Xe-131
 Cross Section -238.2 To 9999. %

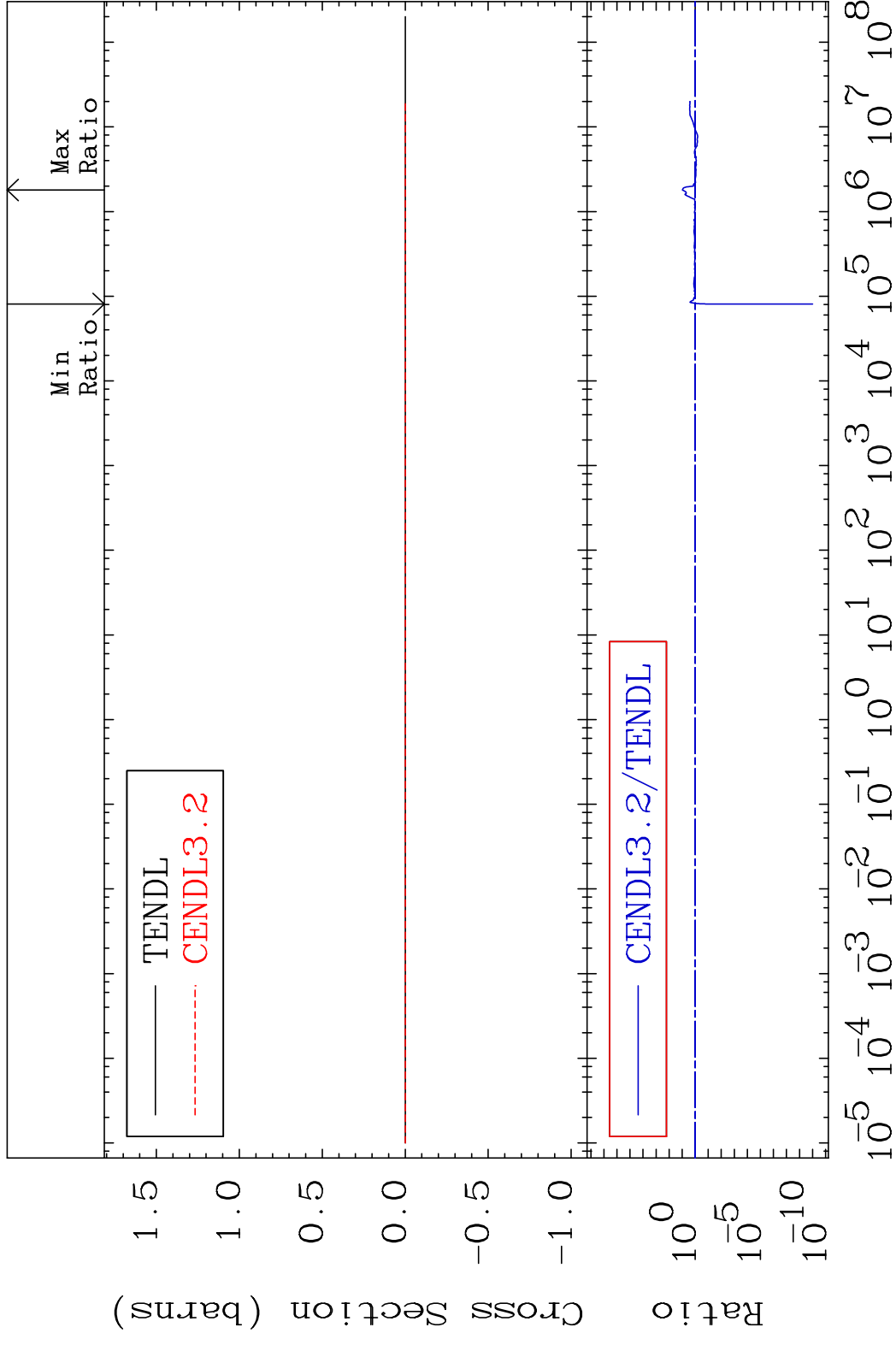


40 Incident Energy (eV) 54-Xe-131

MAT 5446 Kerma inelastic (mt51-91) 54-Xe-131
 Cross Section -100.0 To 863.3 %



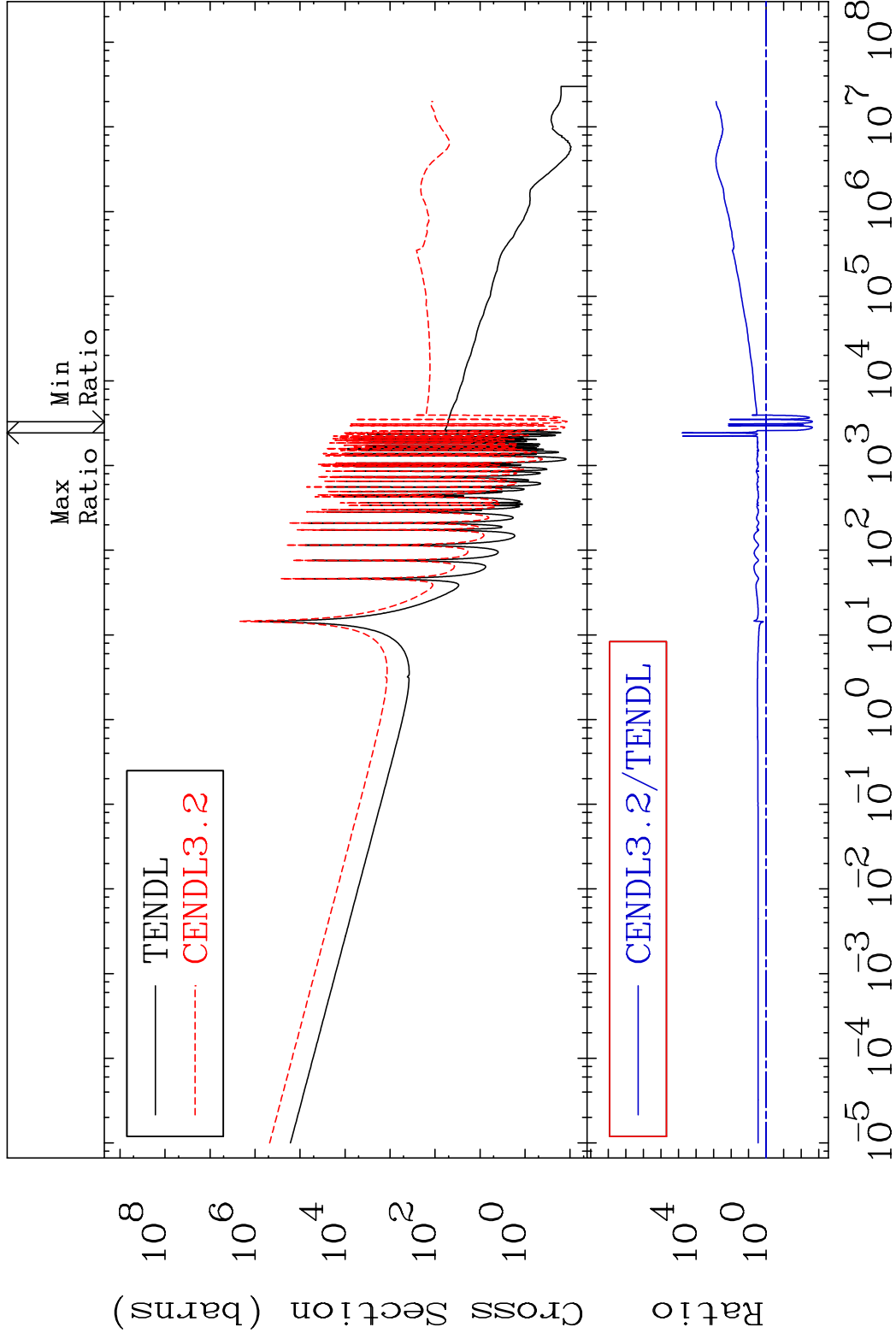
MAT 5446 Kerma fission (mt18 or mt19-20-21-38) 54-Xe-131
 Cross Section -100.0 To 863.3 %



MAT 5446

Kerma capture (mt102) 54-Xe-131

Cross Section -99.77 To 9999. %



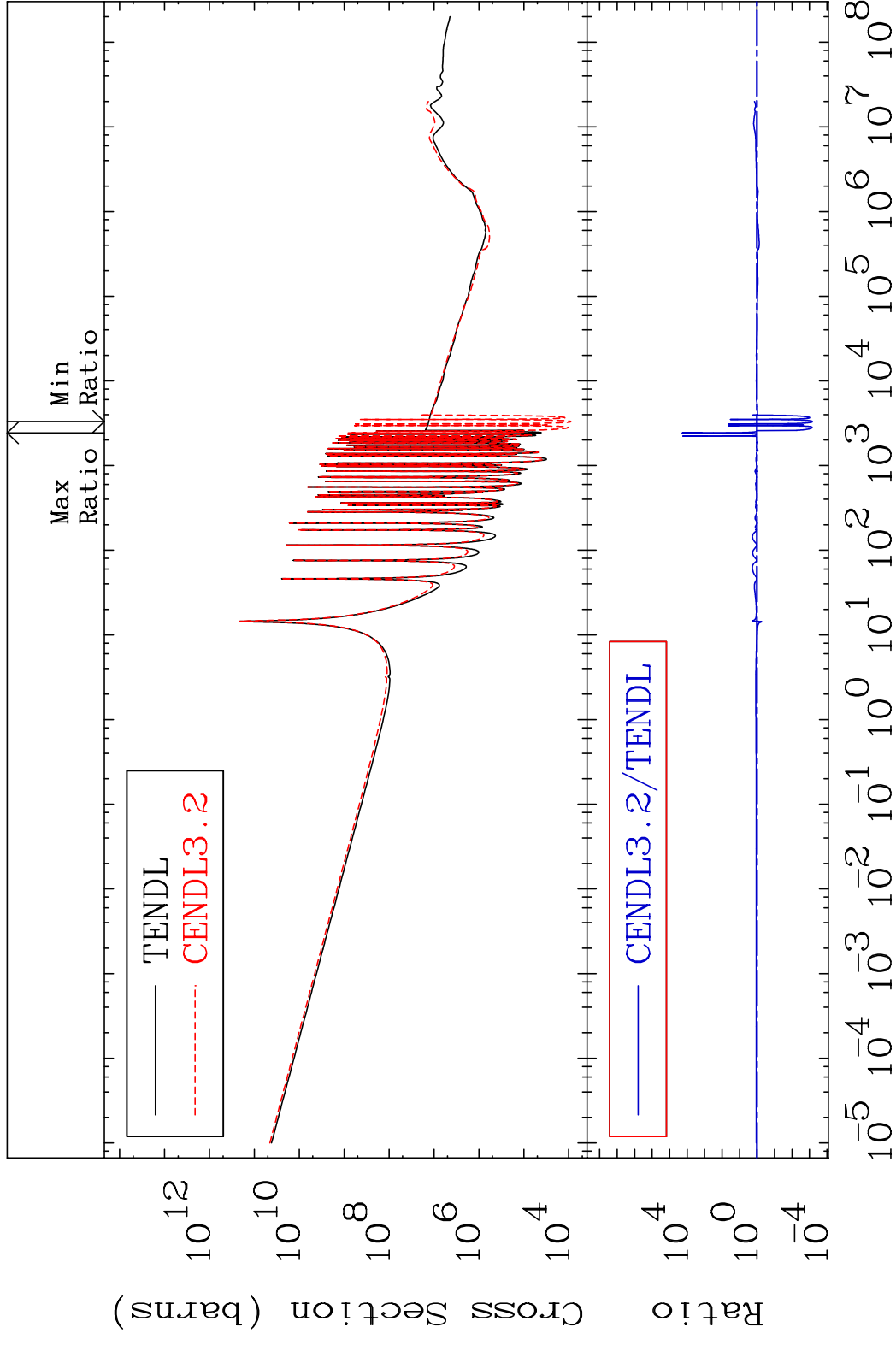
43

Incident Energy (eV)

54-Xe-131

MAT 5446

Total photon (eV-barns) 54-Xe-131
Cross Section -99.93 To 9999. %

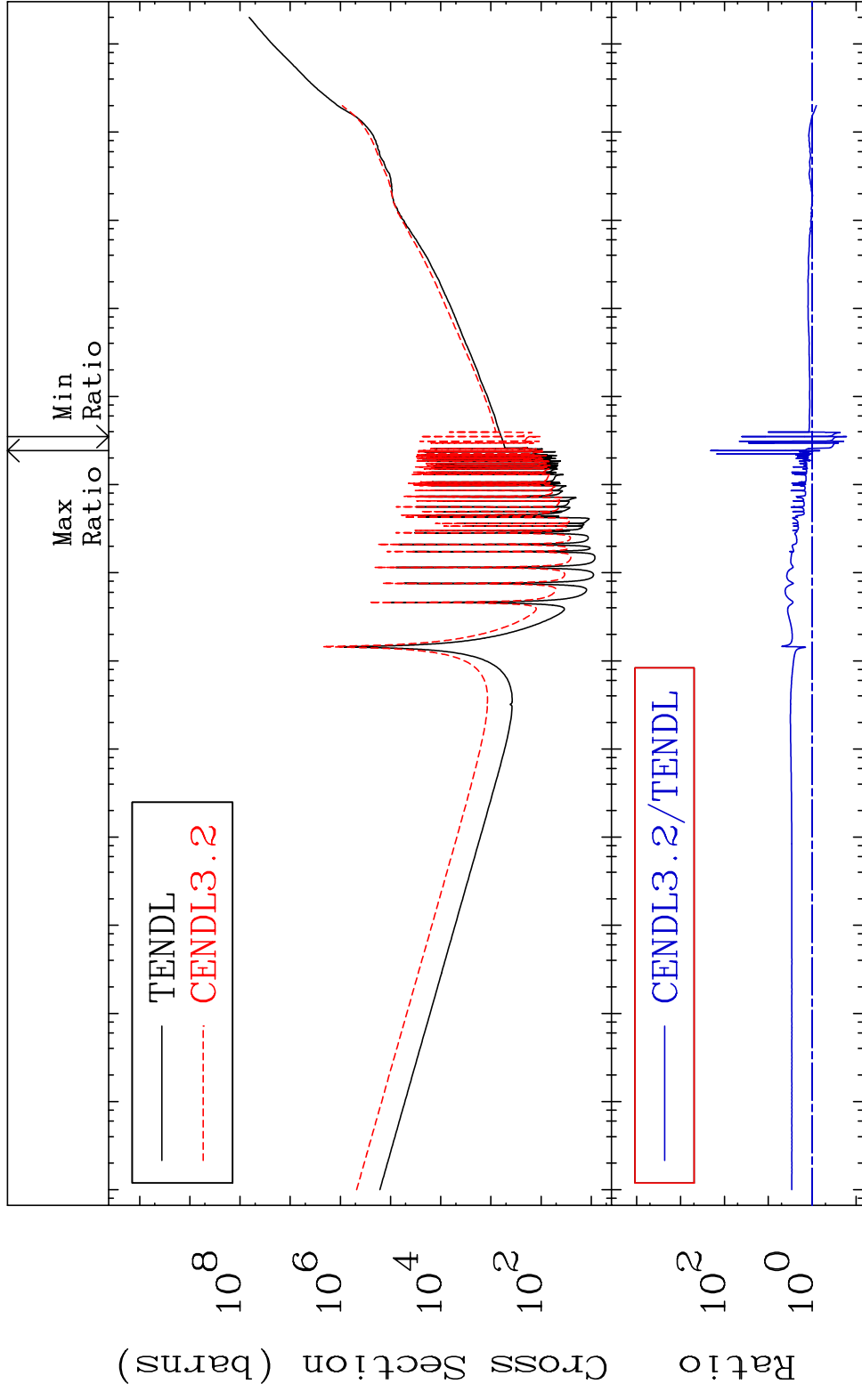


44

Incident Energy (eV)

54-Xe-131

MAT 5446 Total kinematic kerma (high limit) 54-Xe-131
 Cross Section -83.31 To 9999. %



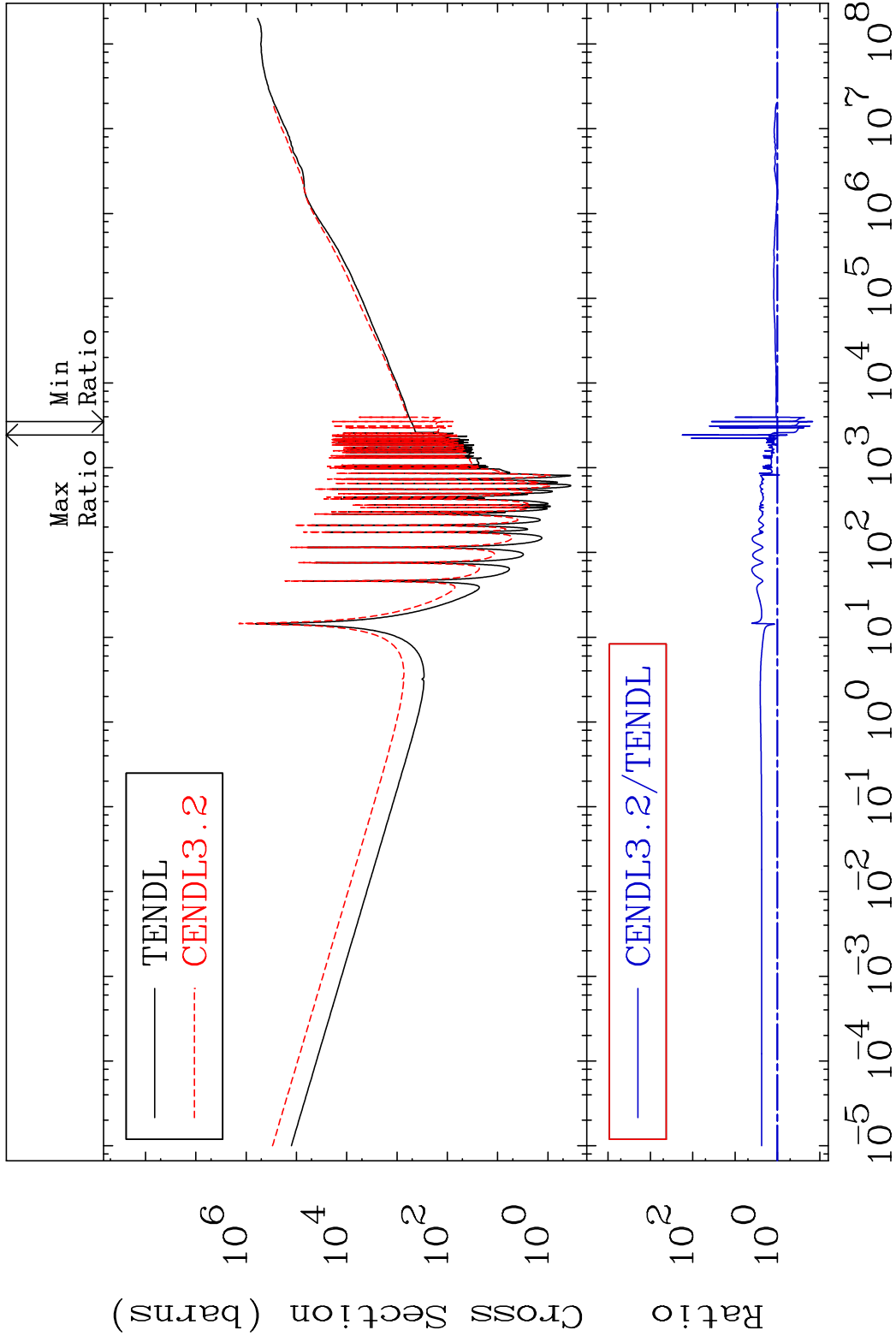
45 Incident Energy (eV) 54-Xe-131

MAT 5446

Dpa total (eV-barns)

54-Xe-131

Cross Section -85.12 To 9999. %



46

Incident Energy (eV)

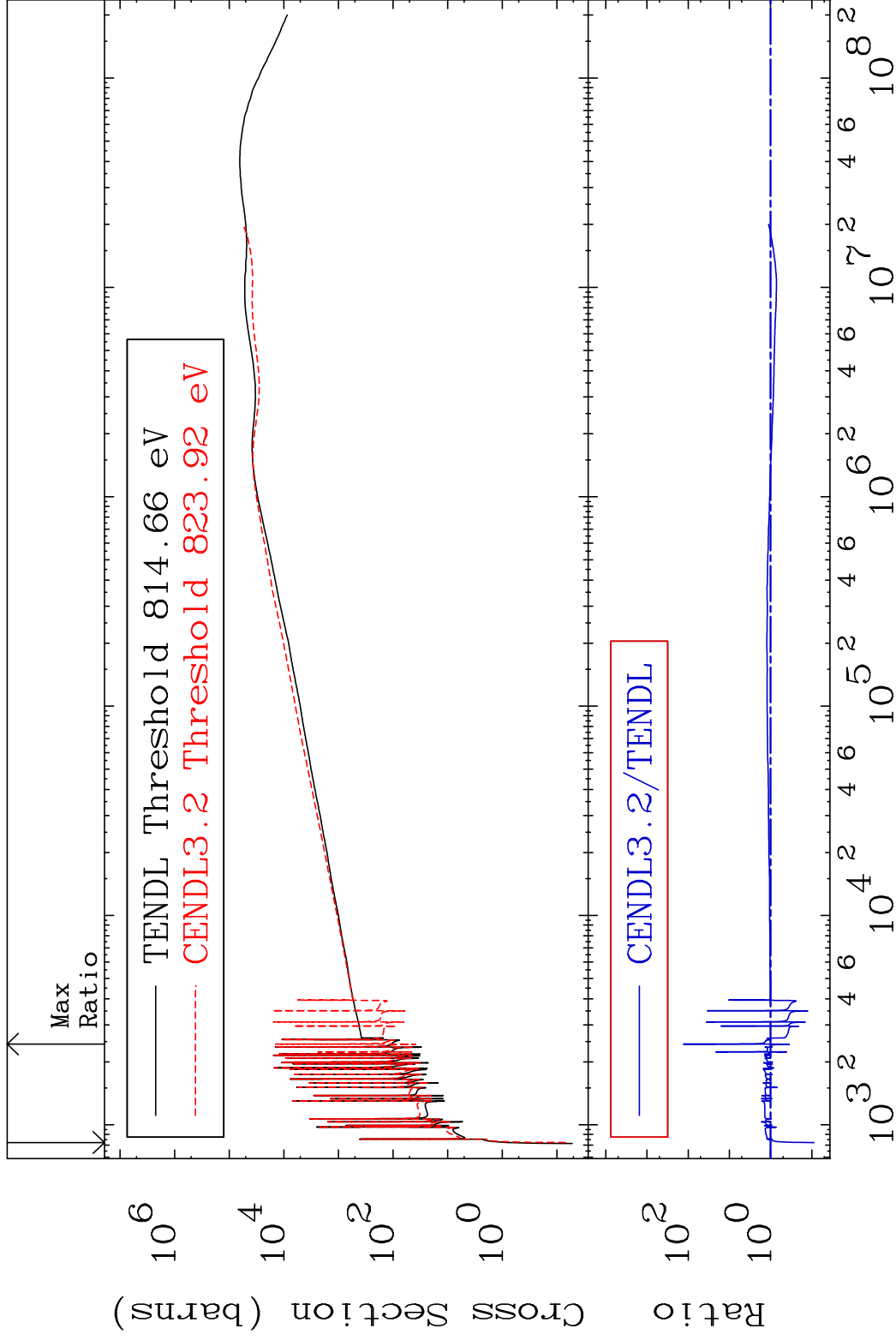
54-Xe-131

MAT 5446

Dpa elastic (mt2)

54-Xe-131

Cross Section -91.19 To 9999. %



47

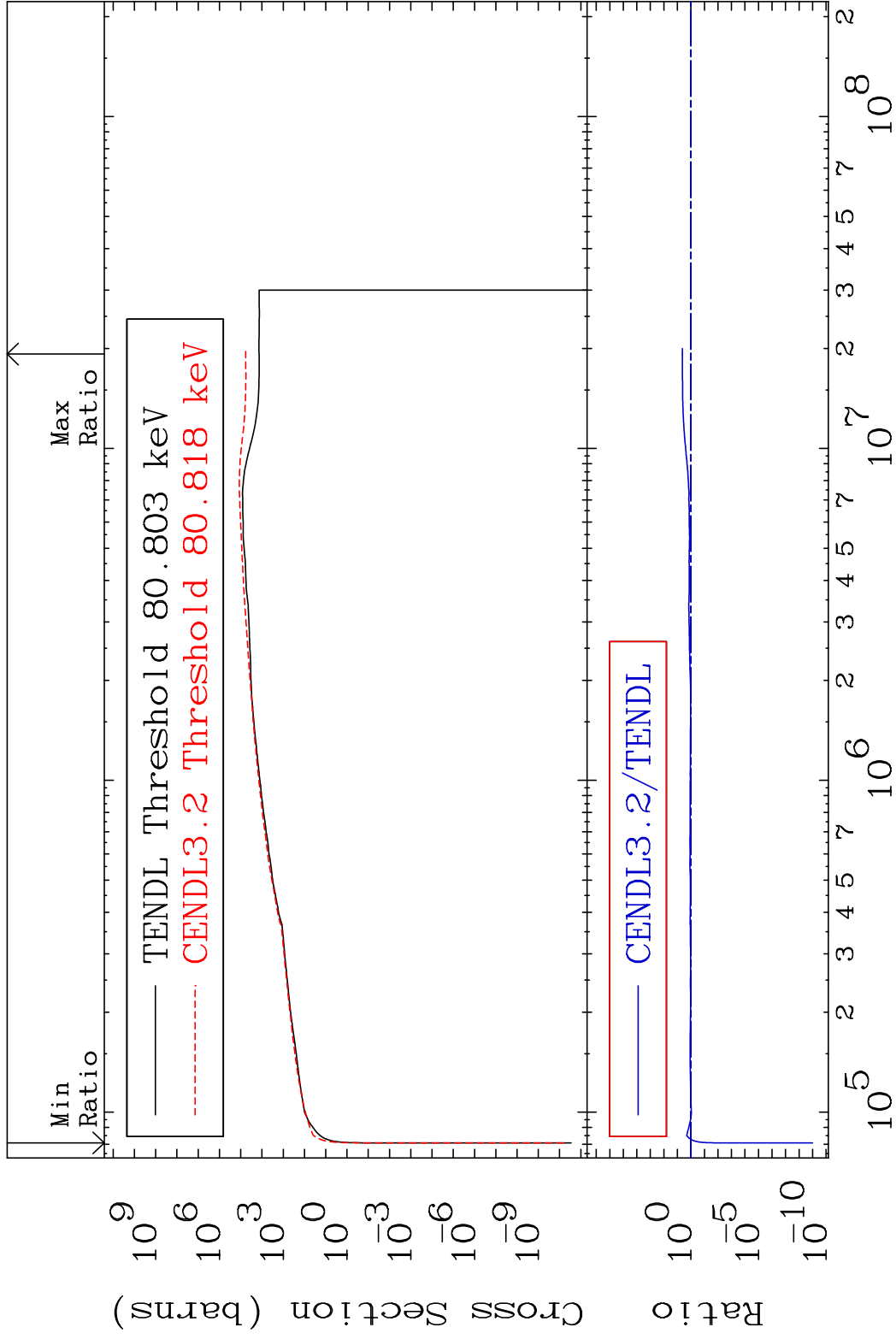
Incident Energy (eV)

54-Xe-131

MAT 5446

Dpa inelastic (mt51-91) 54-Xe-131

Cross Section -100.0 To 327.7 %

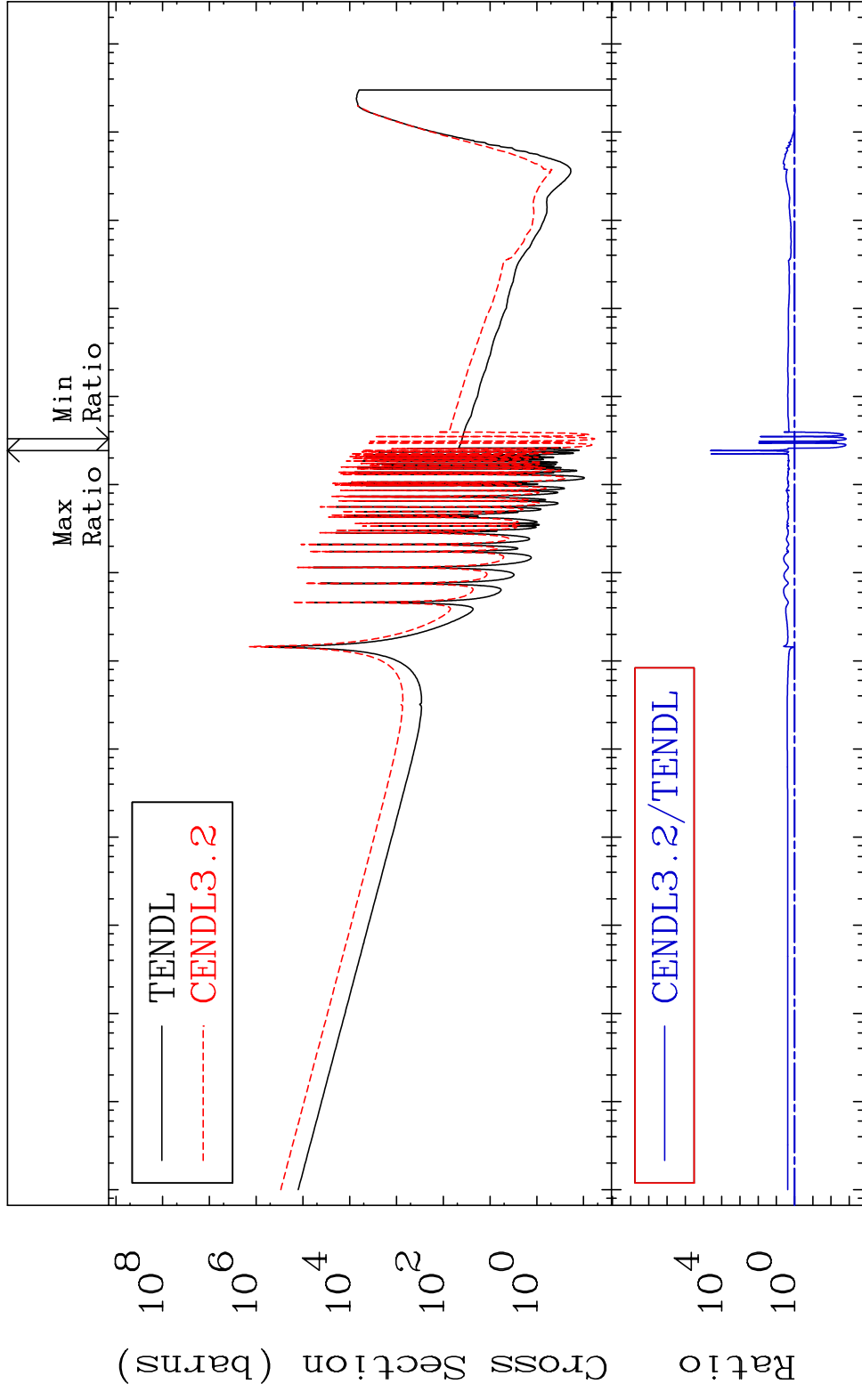


48

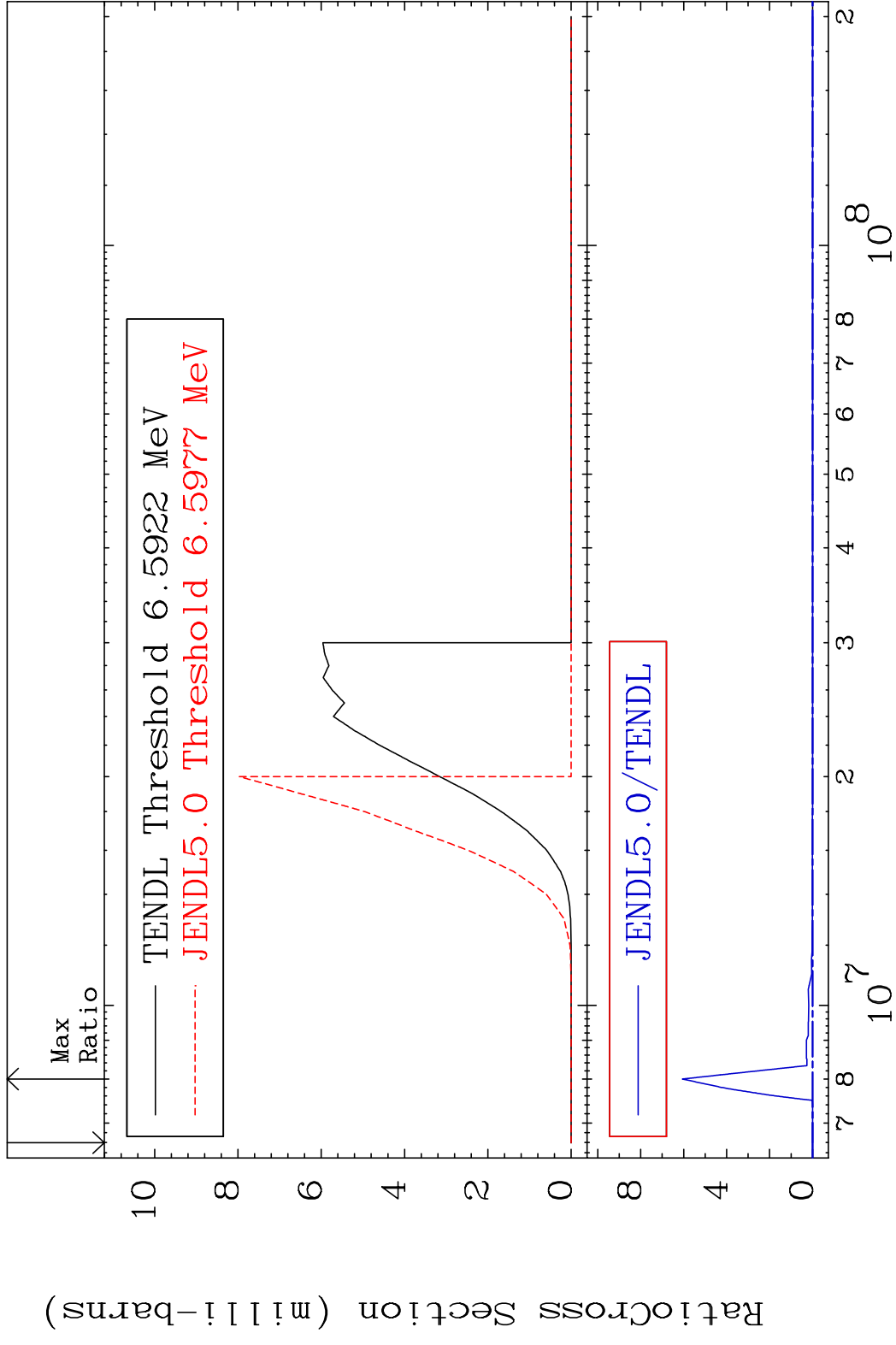
Incident Energy (eV)

54-Xe-131

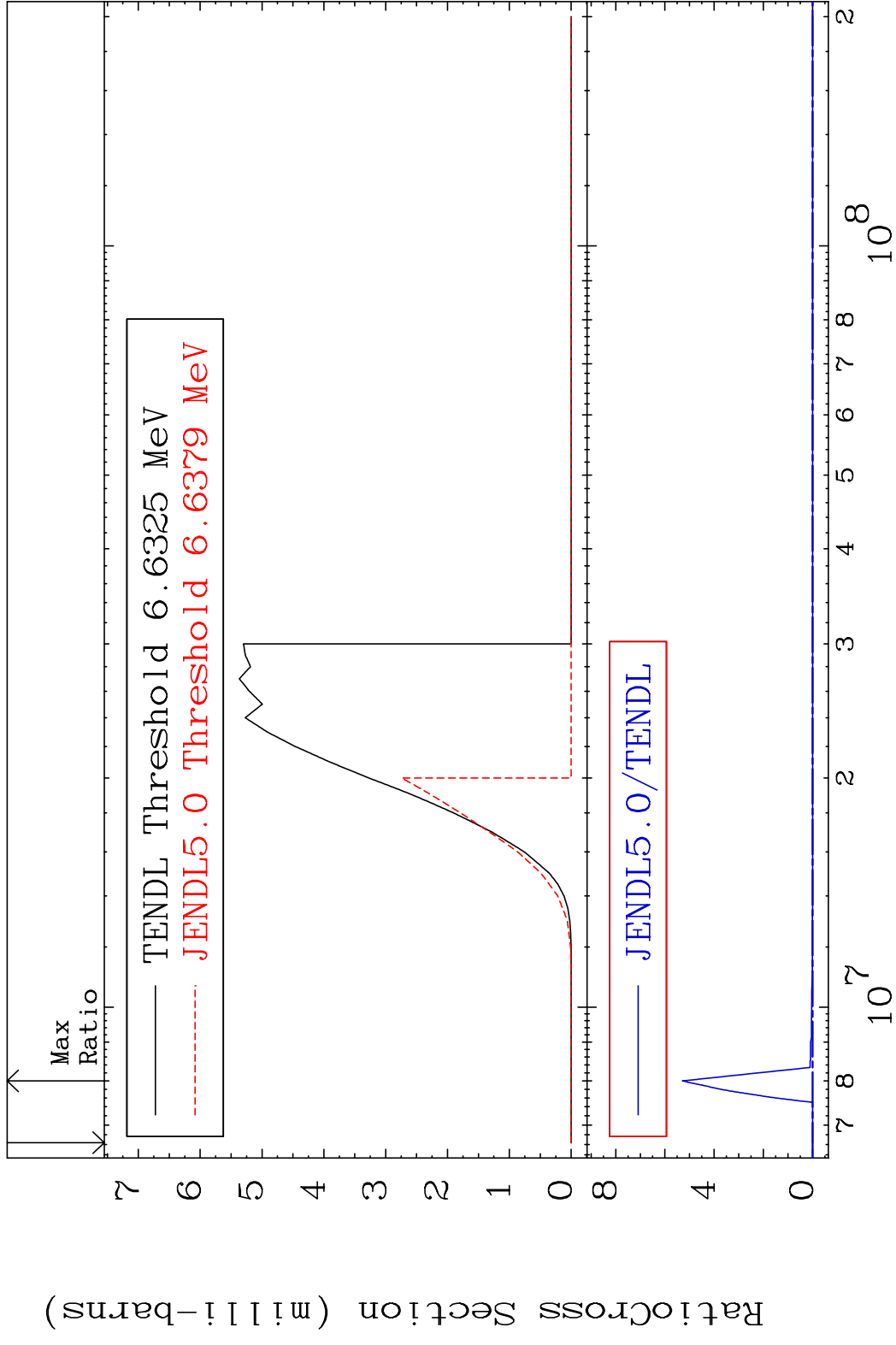
MAT 5446 Dpa disappearance (mt102 -120) 54-Xe-131
 Cross Section -99.86 To 9999. %



MAT 5446 (n,d):53-I -130g 54-Xe-131
 Radionuclide Production Cross Section (%)



MAT 5446 (n, d):53-I -130m1 54-Xe-131
 Radionuclide Production Cross Section to 9999. %

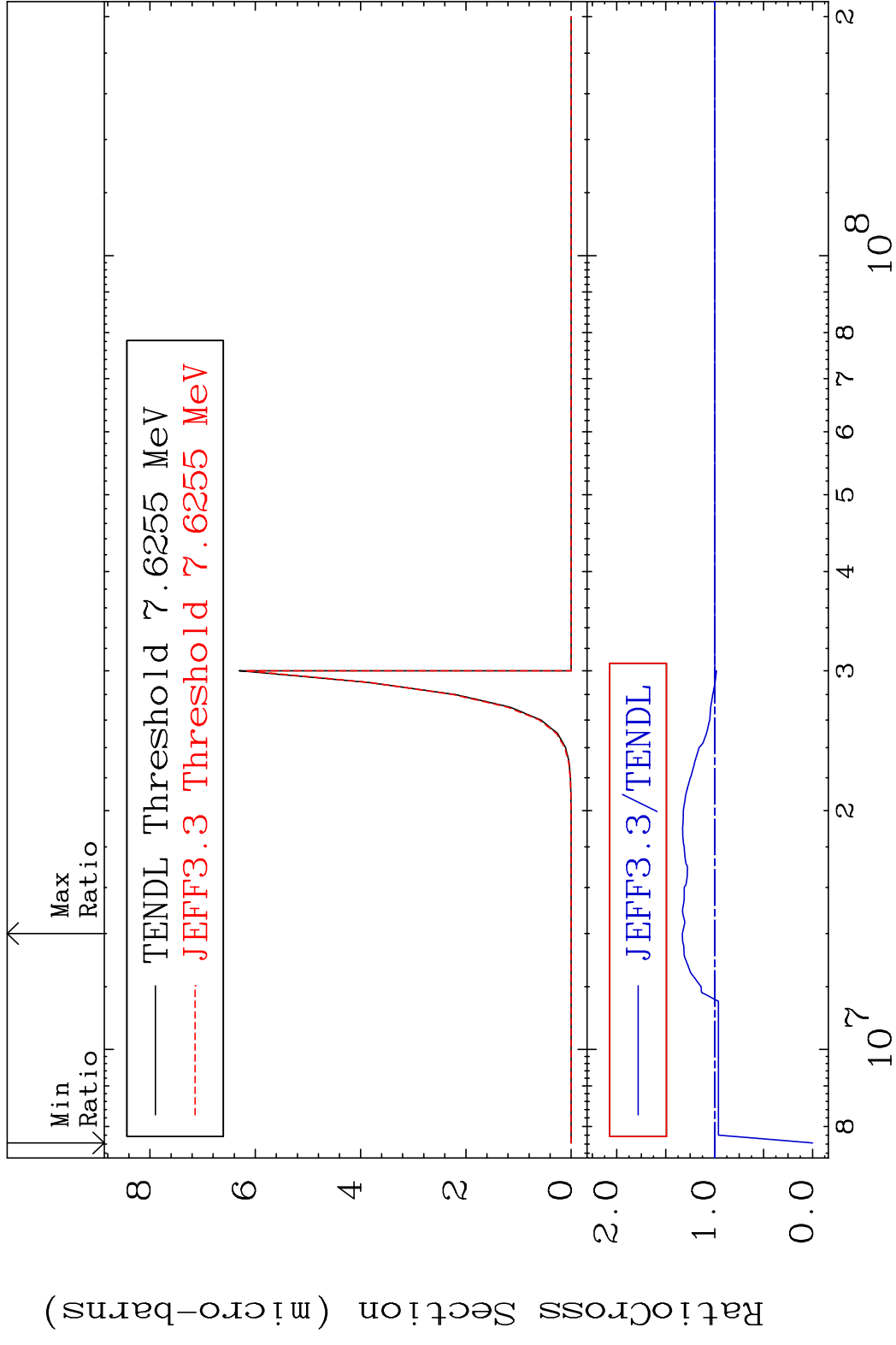


MAT 5446

(n,2p)

54-Xe-131

Cross Section -100.0 To 33.03 %

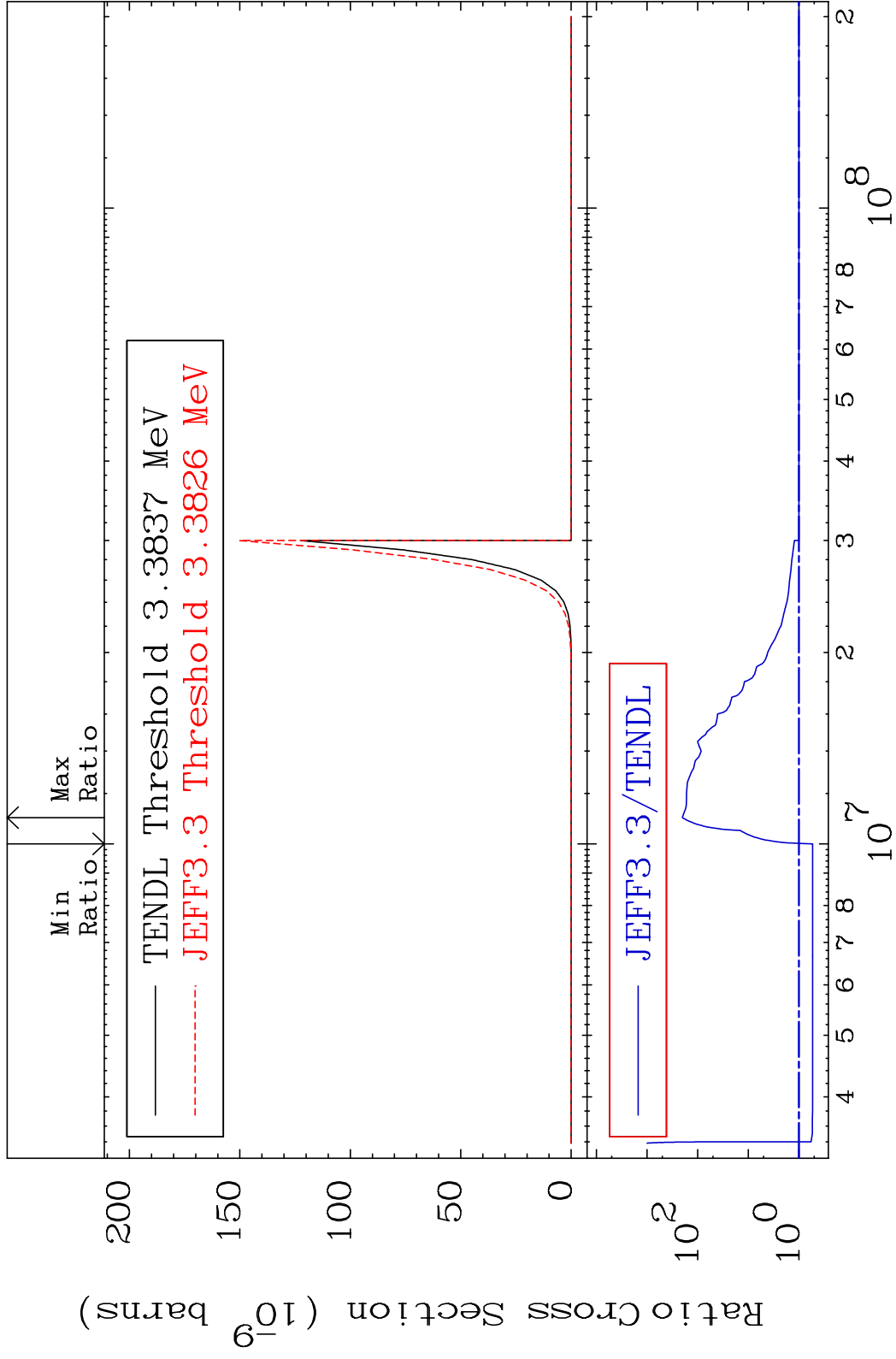


MAT 5446

(n,p) α

54-Xe-131

Cross Section -46.12 To 9999. %

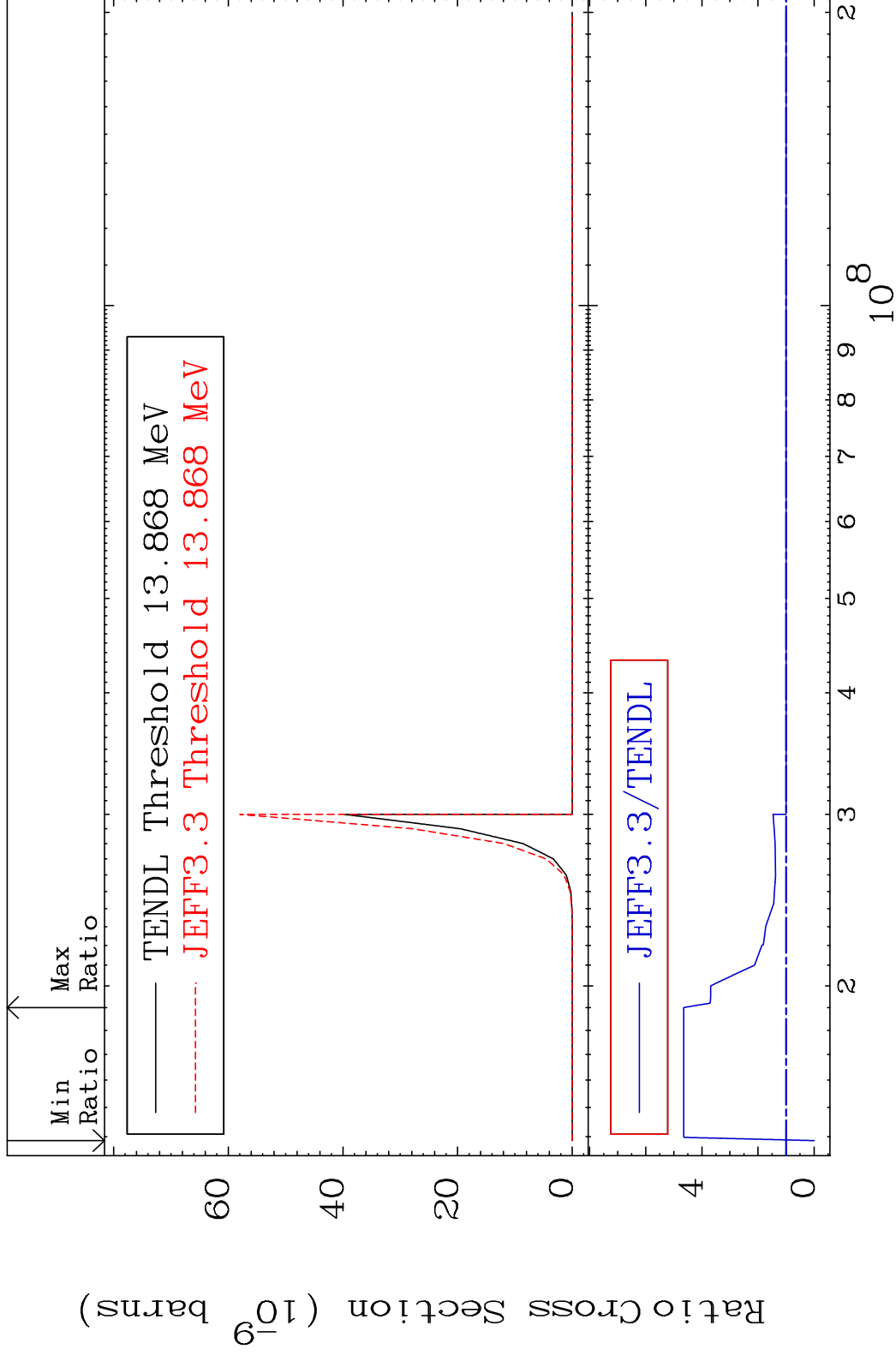


MAT 5446

(n,p) d

54-Xe-131

Cross Section -100.0 To 364.9 %



54

Incident Energy (eV)

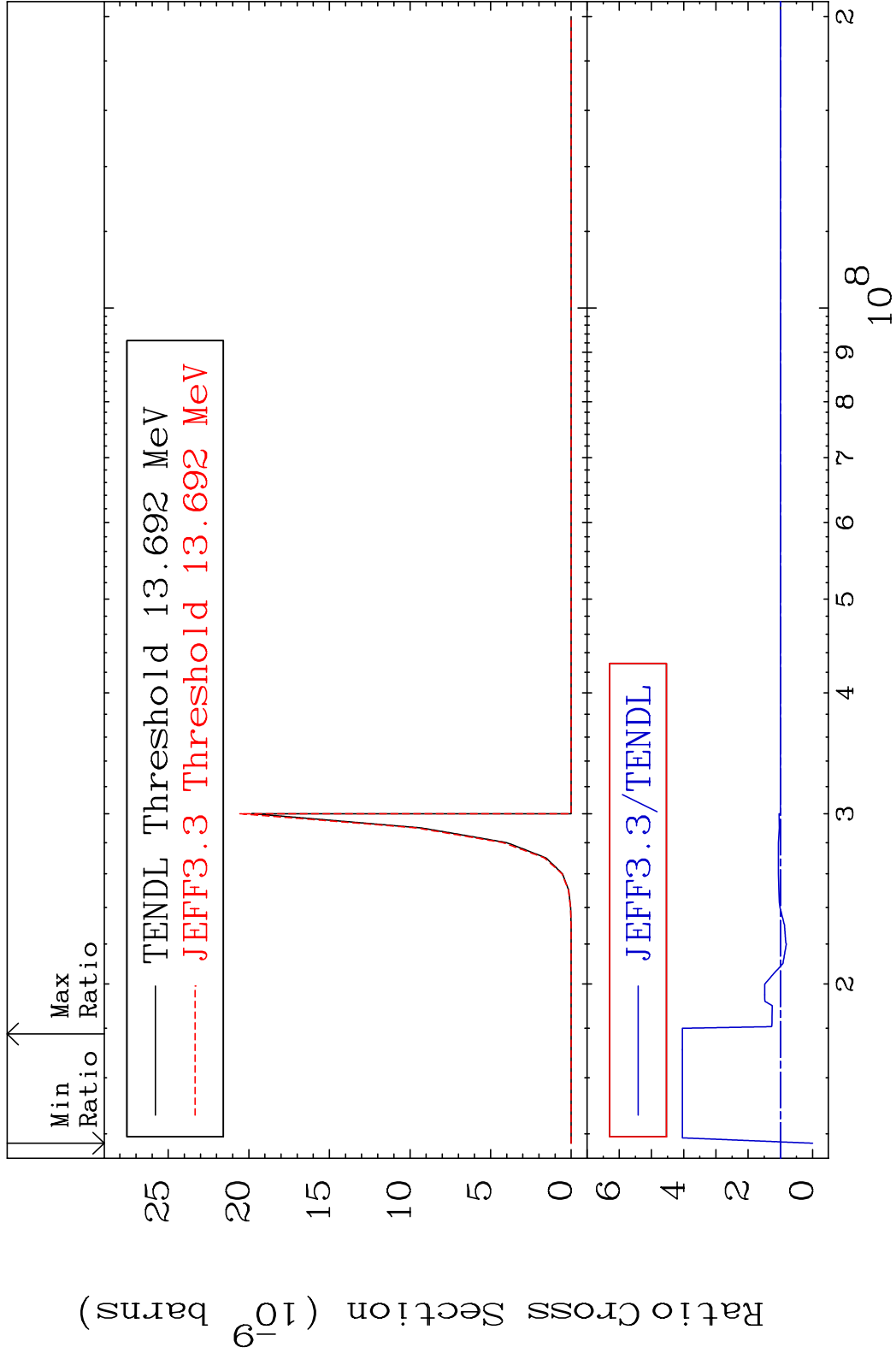
54-Xe-131

MAT 5446

(n,p) t

54-Xe-131

Cross Section -100.0 To 304.2 %

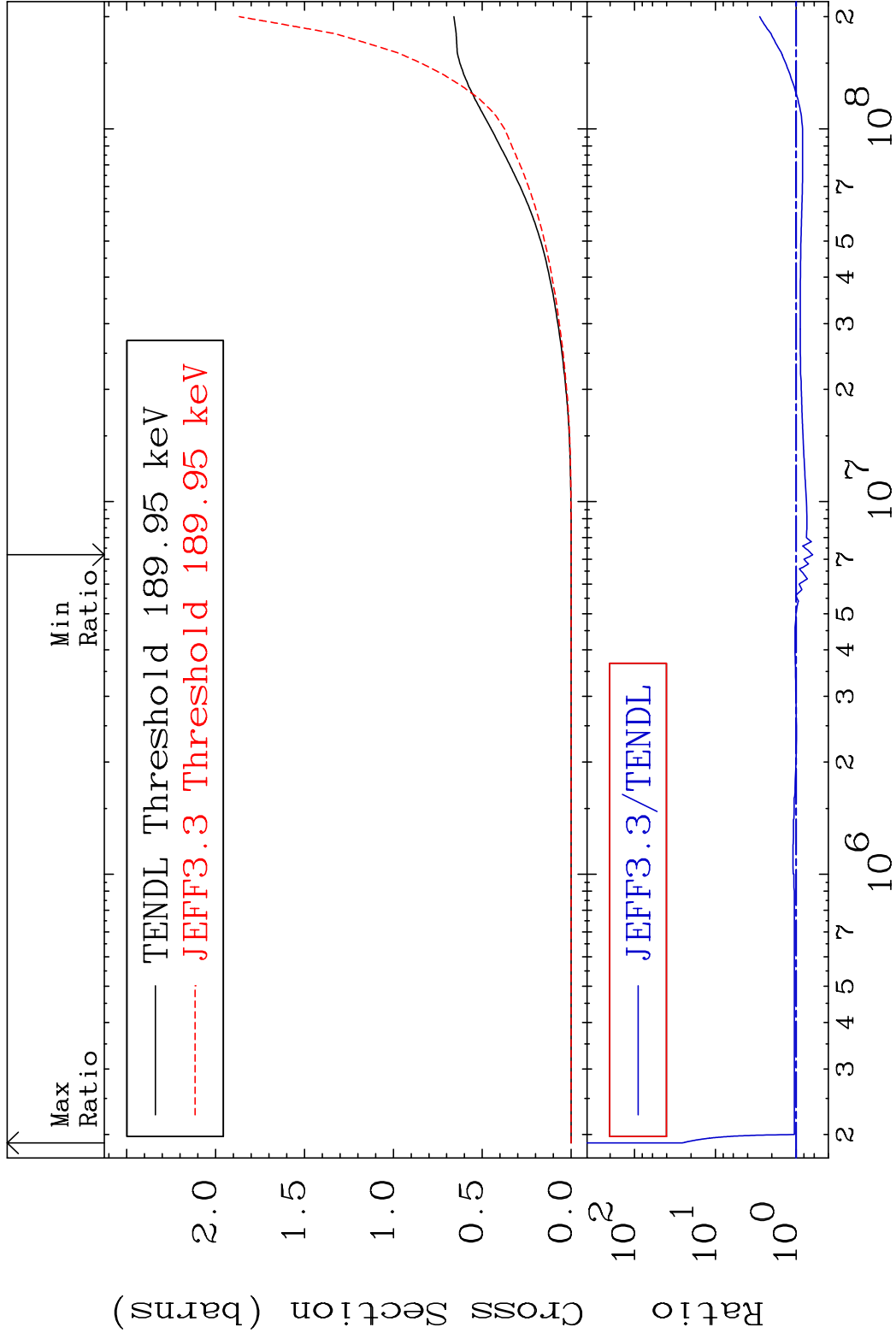


MAT 5446

Hydrogen Production

54-Xe-131

Cross Section -37.27 To 2459. %



56

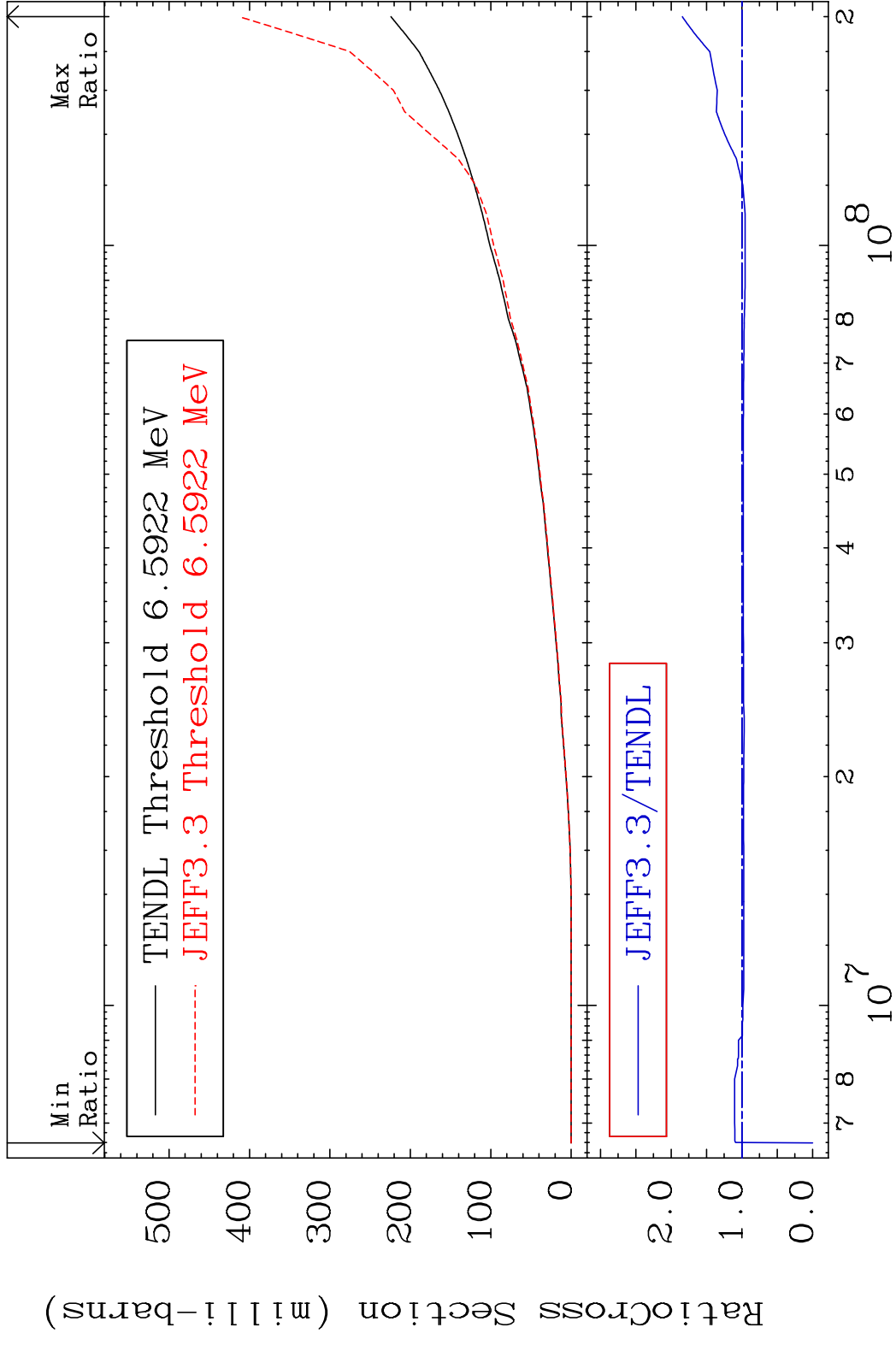
Incident Energy (eV)

54-Xe-131

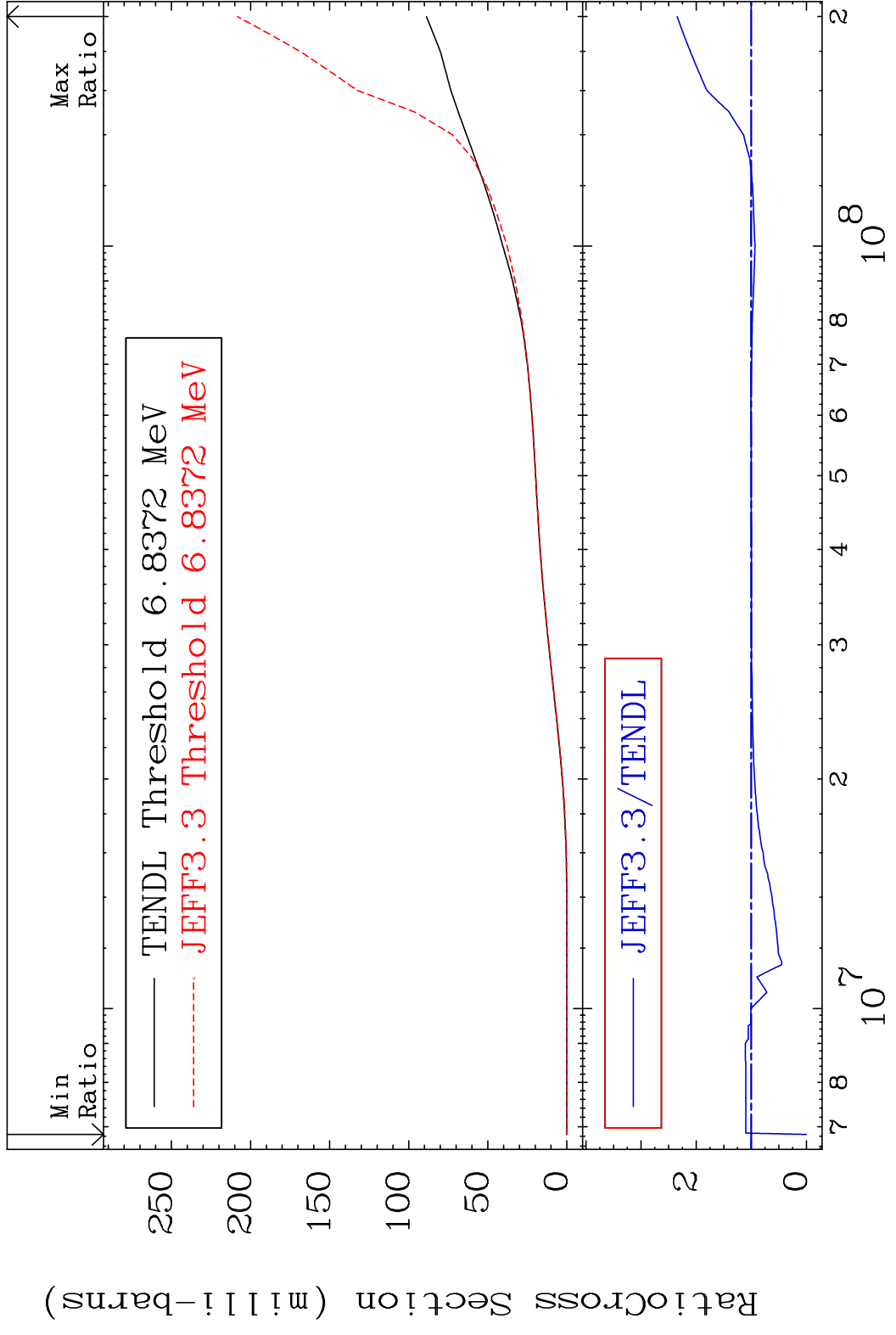
MAT 5446

Deuterium Production 54-Xe-131

Cross Section -100.0 To 84.22 %



MAT 5446 Tritium Production 54-Xe-131
 Cross Section -100.0 To 134.5 %

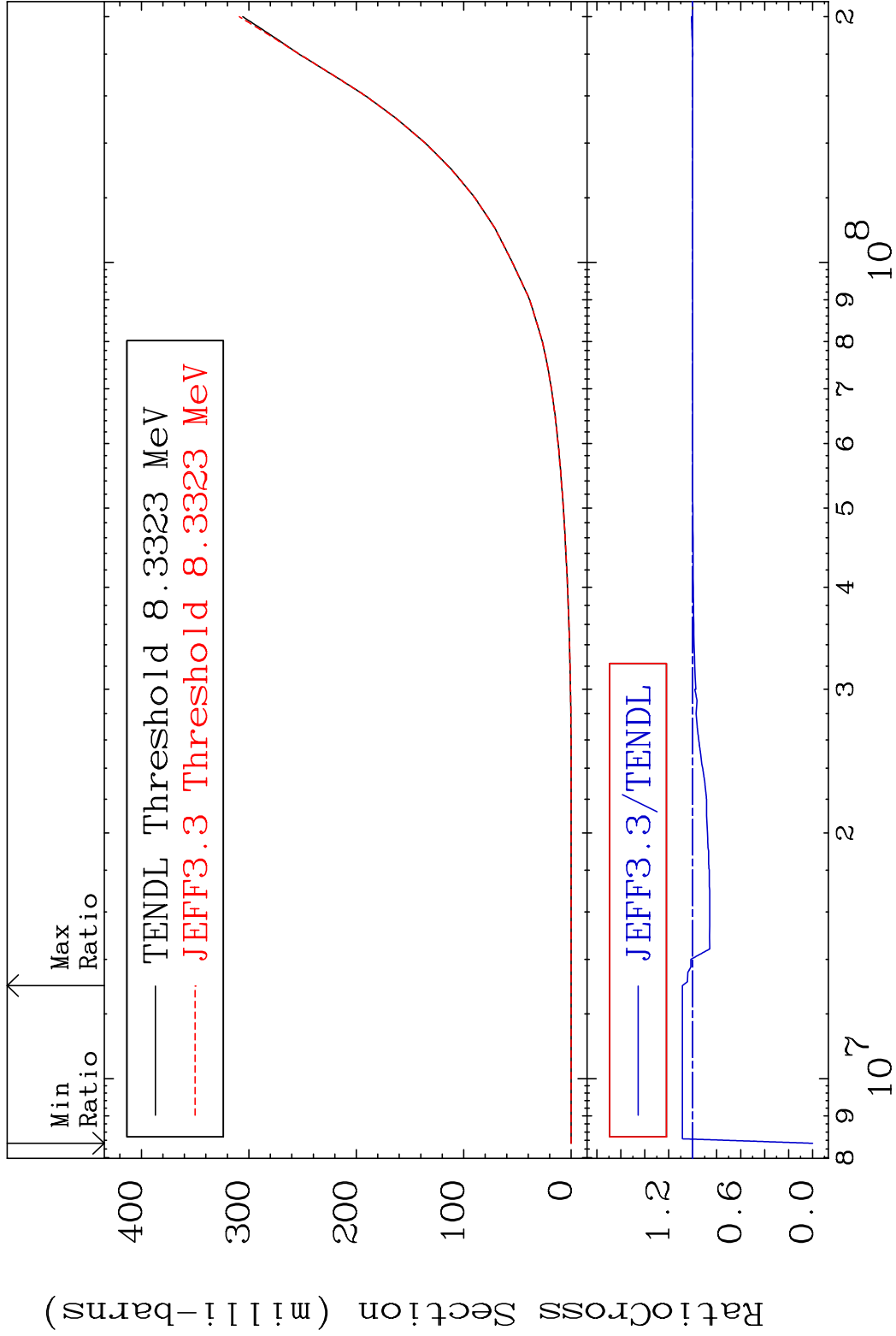


MAT 5446

He-3 Production

54-Xe-131

Cross Section -100.0 To 8.662 %



59

Incident Energy (eV)

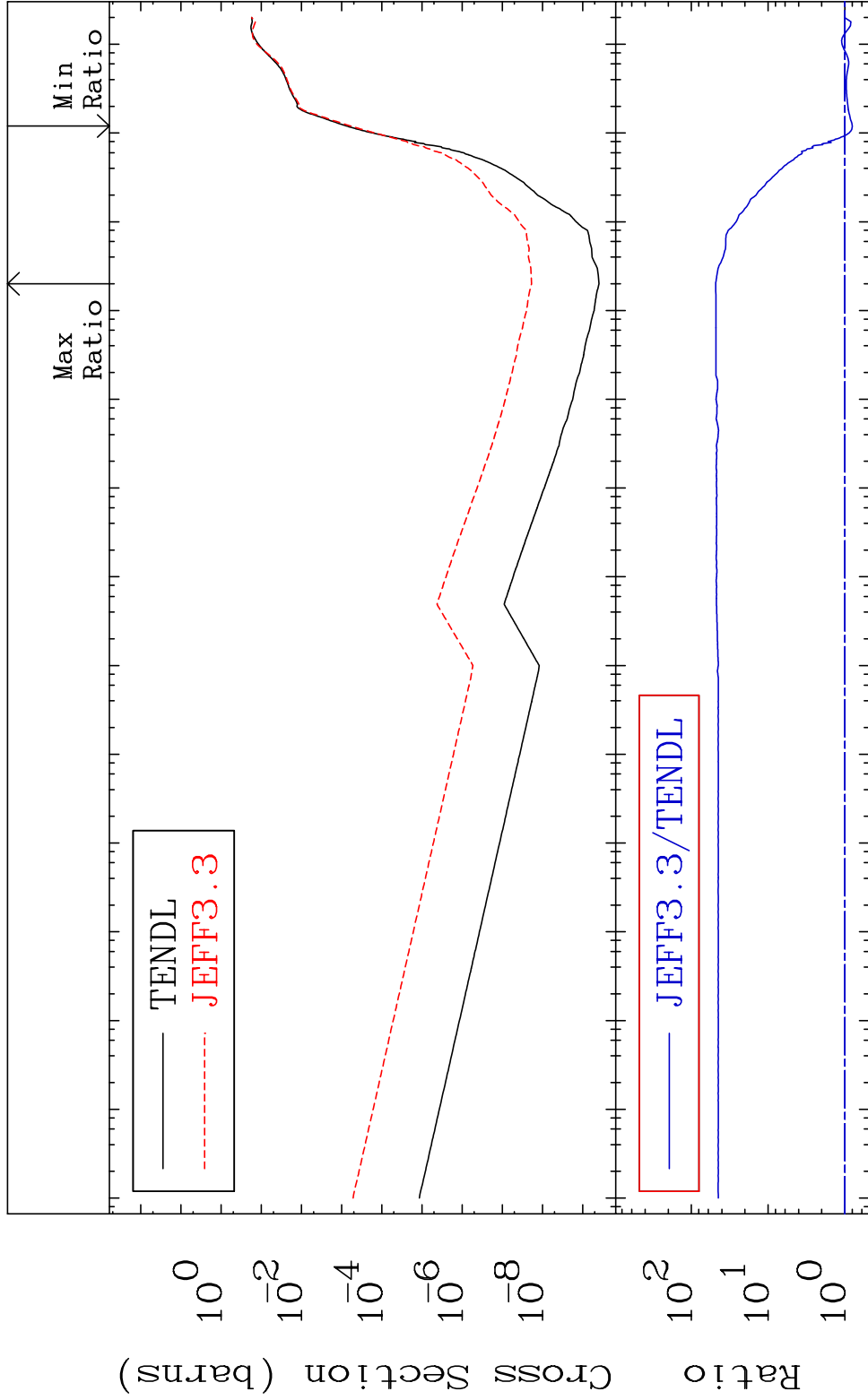
54-Xe-131

MAT 5446

He-4 Production

54-Xe-131

Cross Section -19.88 To 4721. %



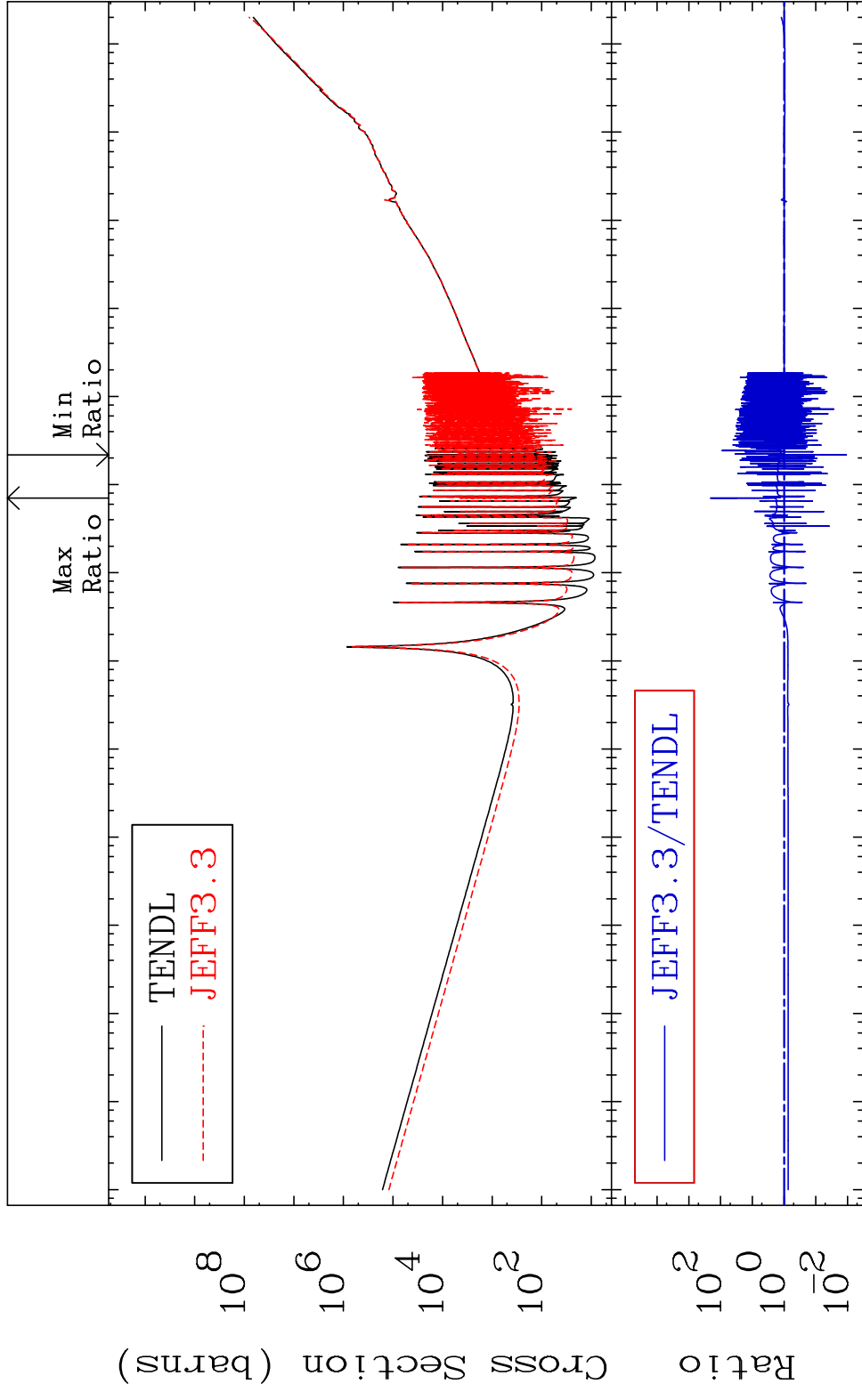
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

60

Incident Energy (eV)

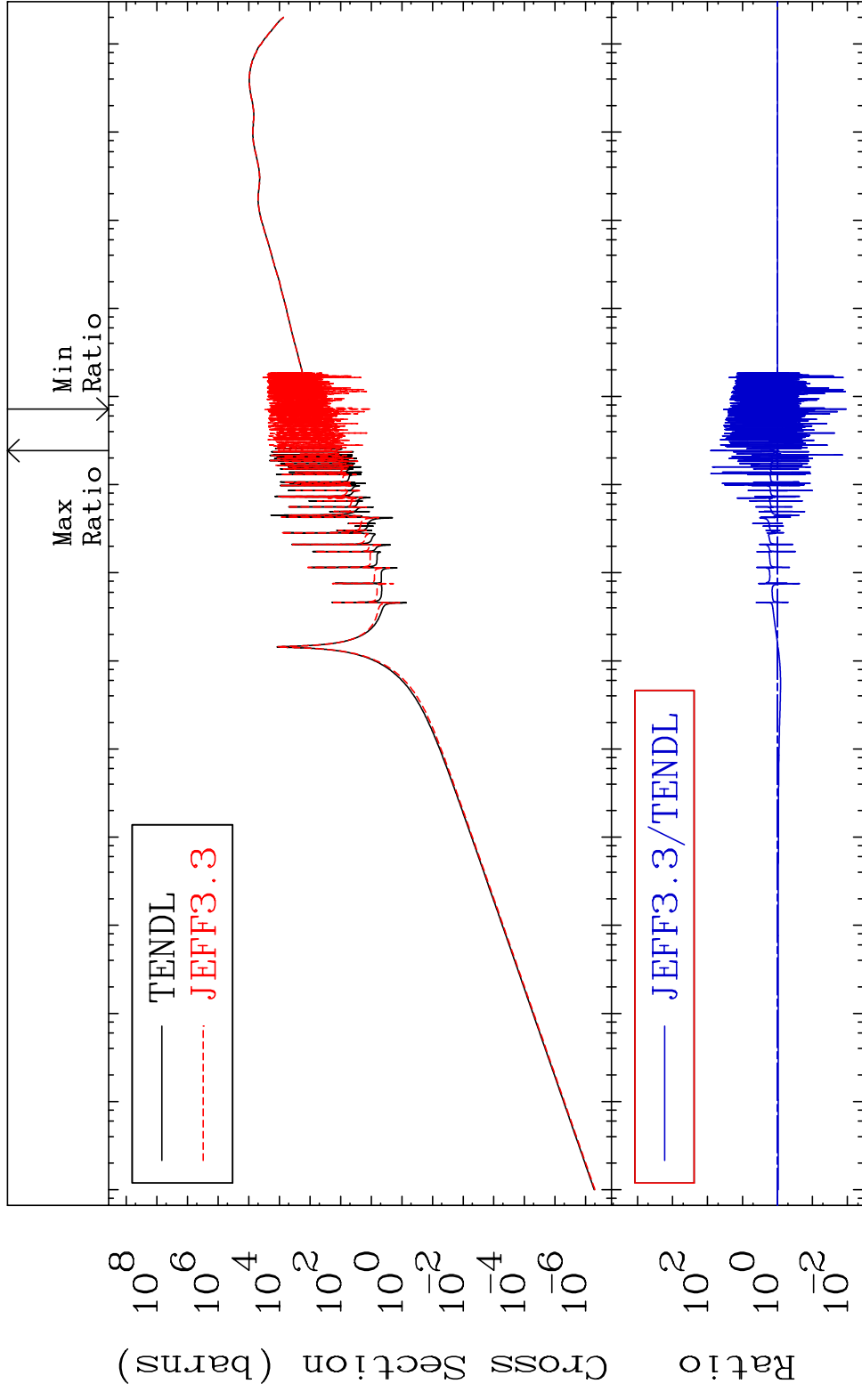
54-Xe-131

MAT 5446 Kerma total (eV-barns) 54-Xe-131
 Cross Section -98.91 To 9999. %

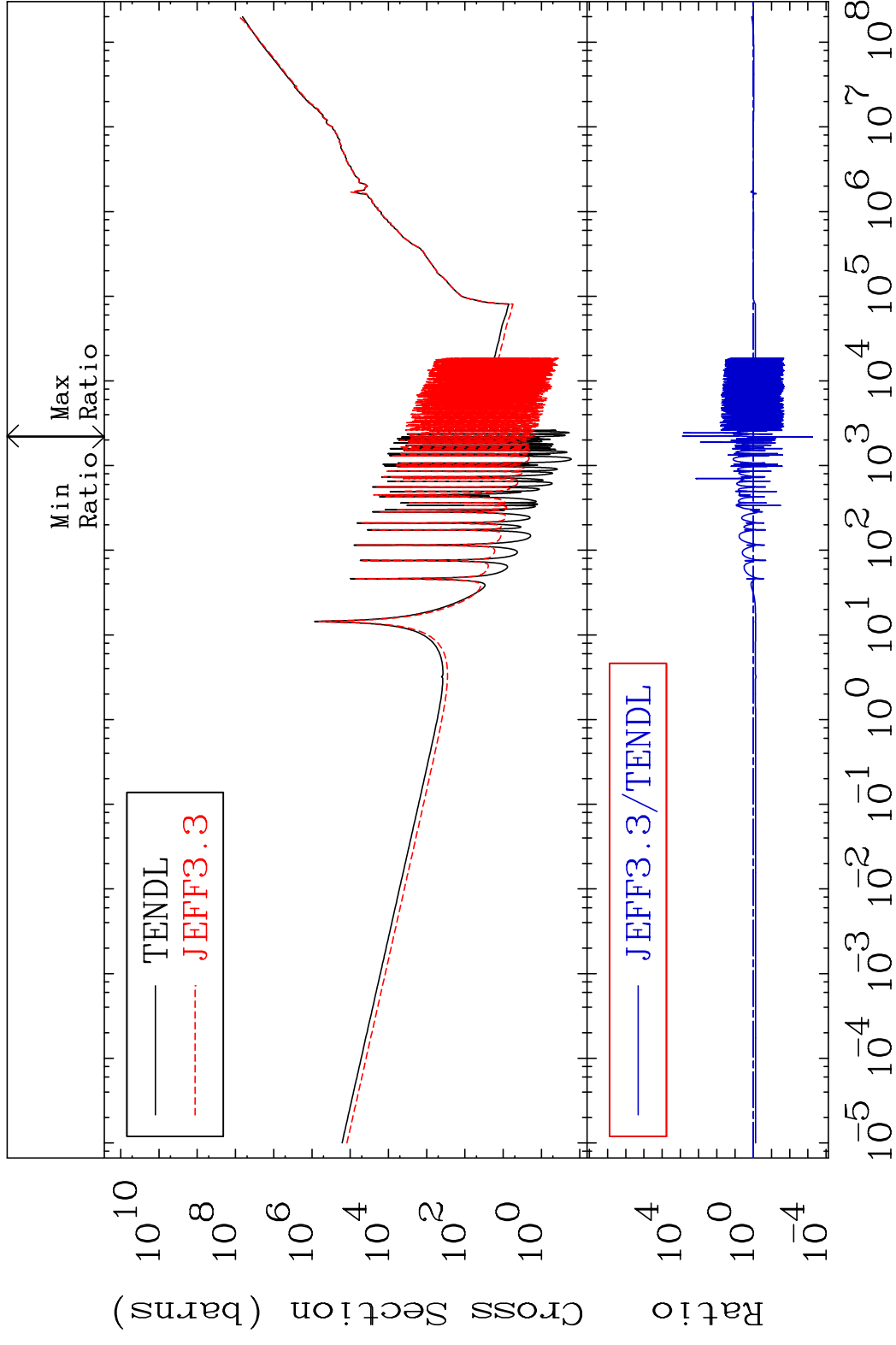


MAT 5446

Kerma elastic Cross Section -98.93 To 8010. %
54-Xe-131

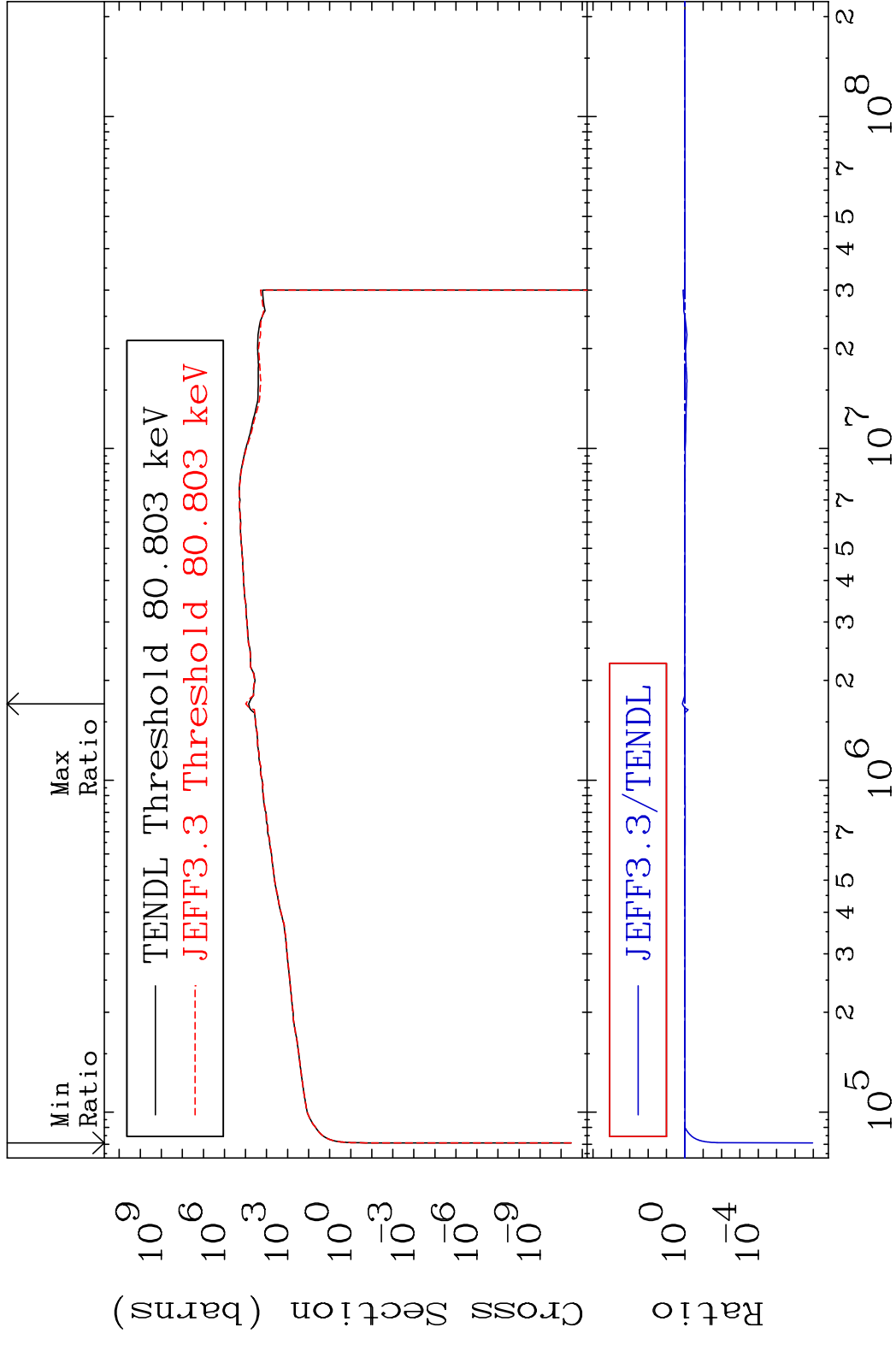


MAT 5446 Kerma non-elastic (all but mt2) 54-Xe-131
 Cross Section -99.94 To 9999. %



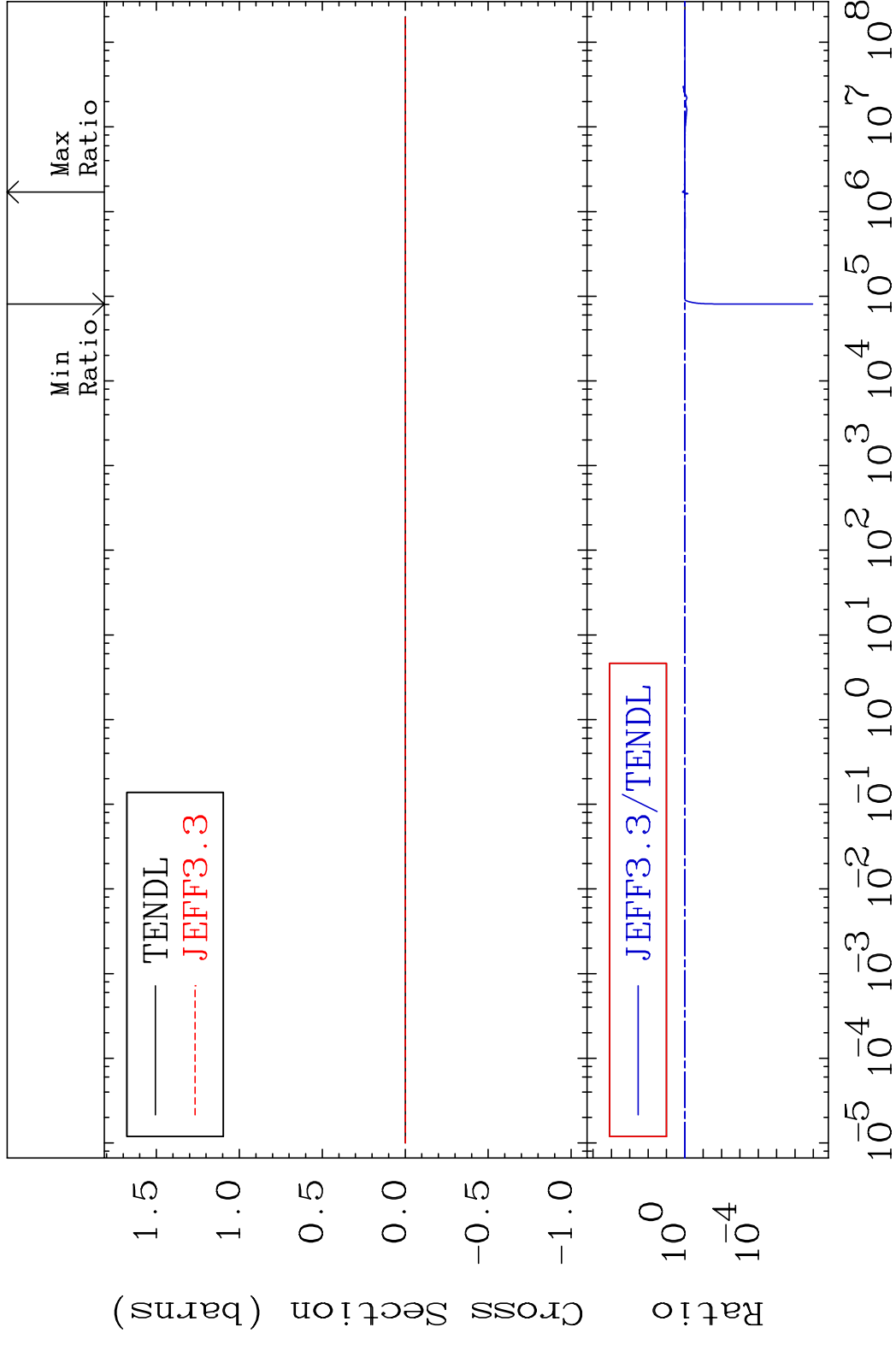
63 Incident Energy (eV) 54-Xe-131

MAT 5446 Kerma inelastic (mt51-91) 54-Xe-131
 Cross Section -100.0 To 36.08 %



64 Incident Energy (eV) 54-Xe-131

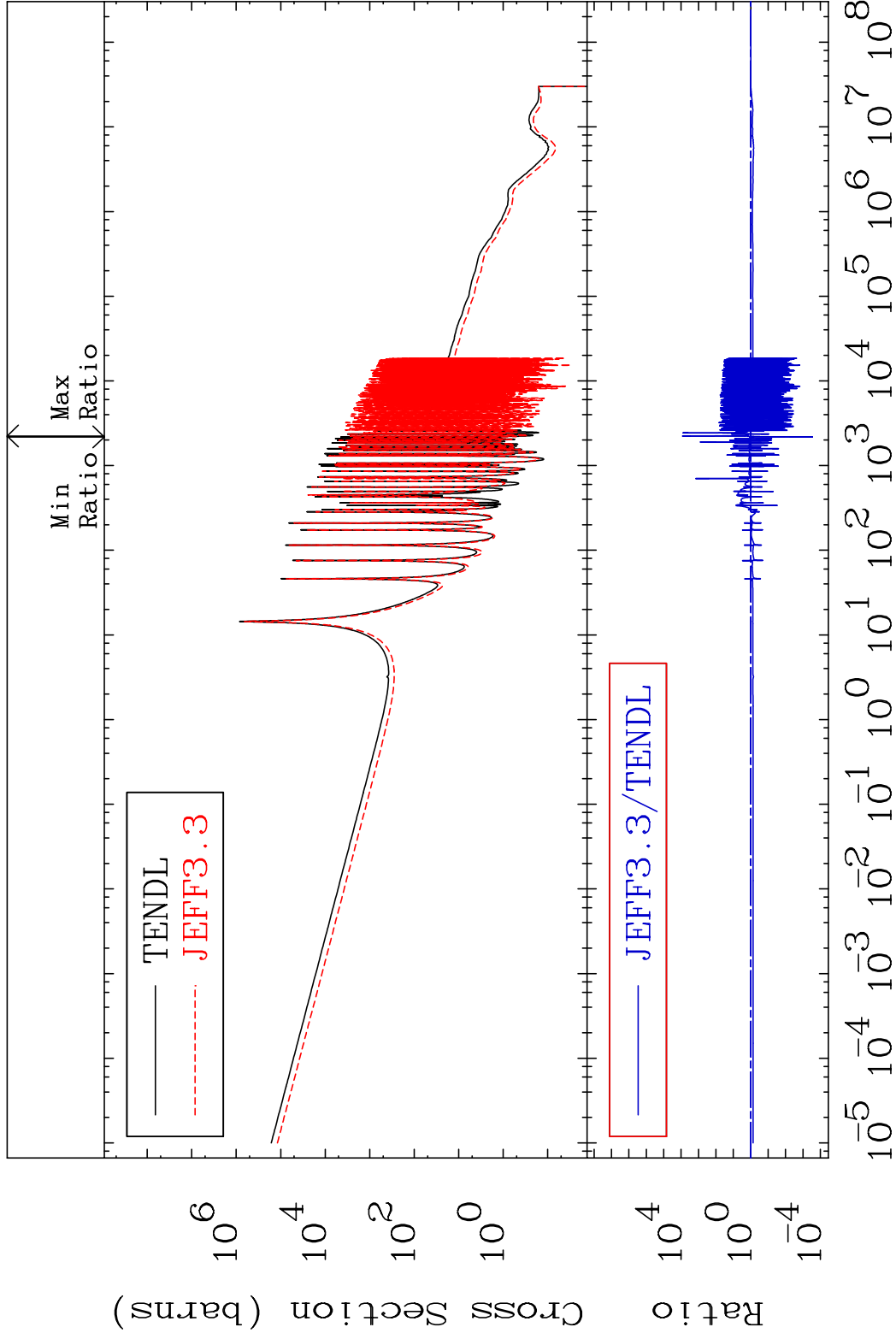
MAT 5446 Kerma fission (mt18 or mt19-20-21-38) 54-Xe-131
 Cross Section -100.0 To 36.08 %



MAT 5446

Kerma capture (mt102) 54-Xe-131

Cross Section -99.97 To 9999. %



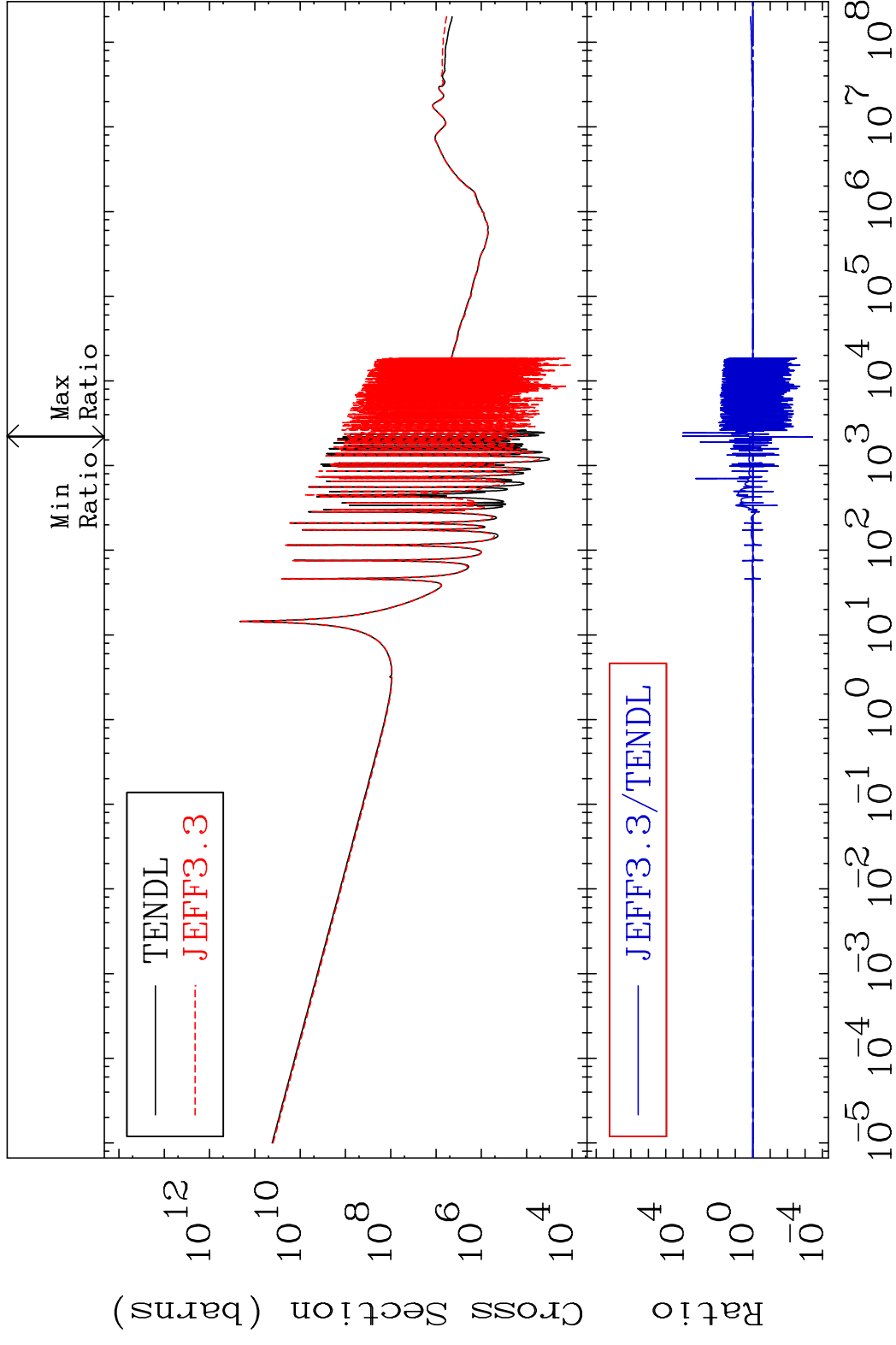
66

Incident Energy (eV)

54-Xe-131

MAT 5446

Total photon (eV-barns) 54-Xe-131
Cross Section -99.96 To 9999. %

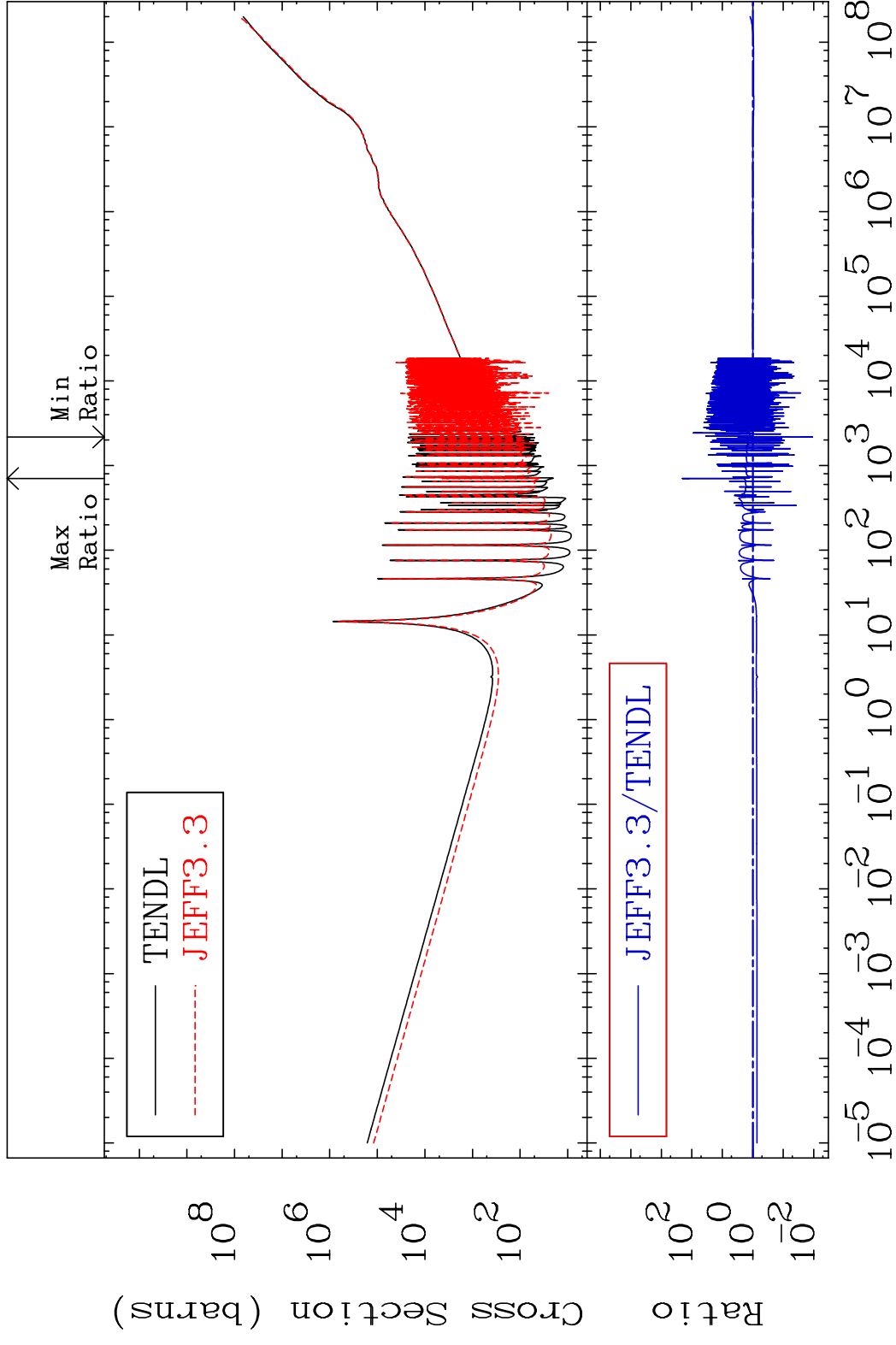


67

Incident Energy (eV)

54-Xe-131

MAT 5446 Total kinematic kerma (high limit) 54-Xe-131
Cross Section -98.91 To 9999. %

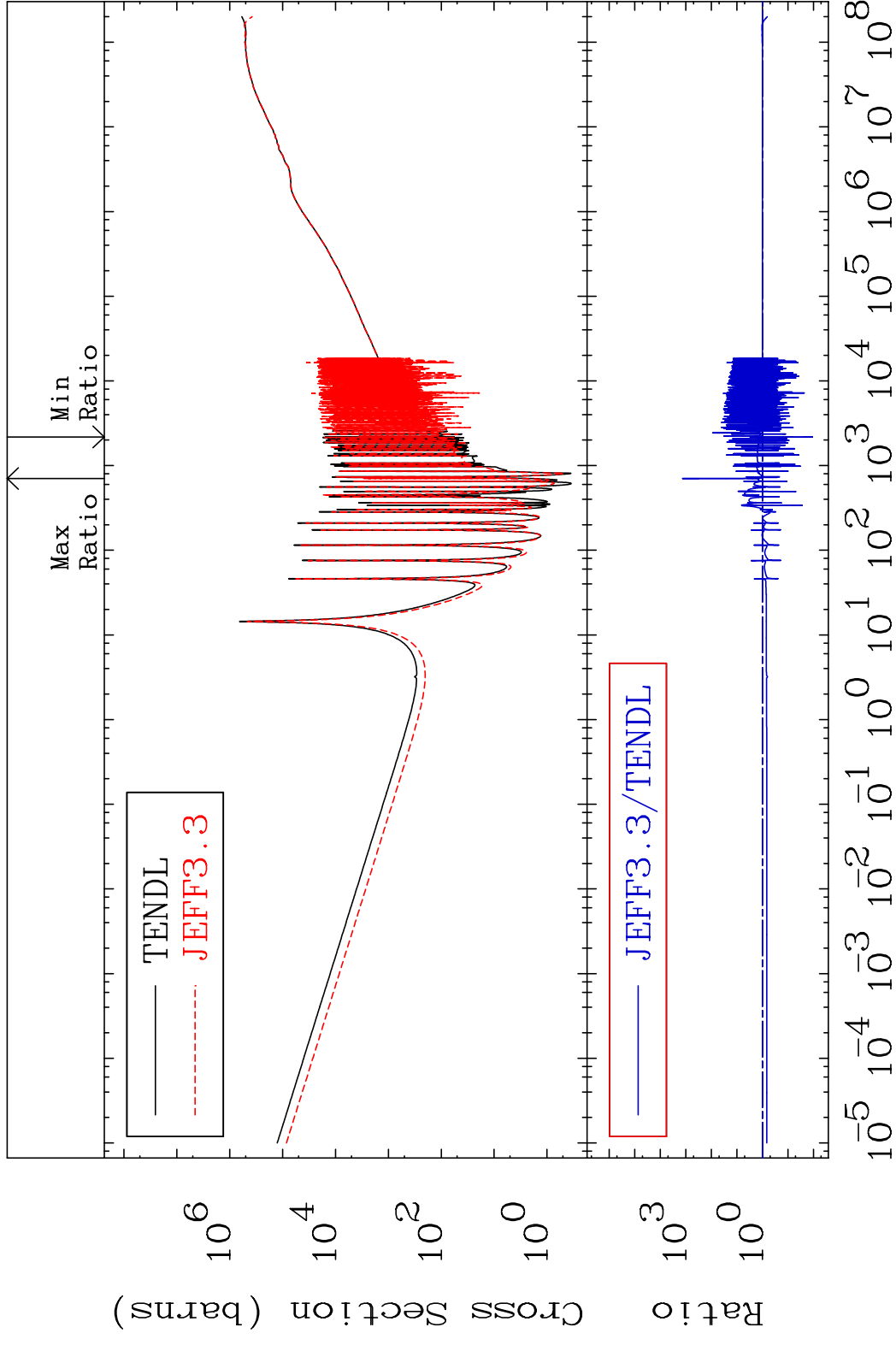


MAT 5446

Dpa total (eV-barns)

54-Xe-131

Cross Section -98.92 To 9999. %



69

Incident Energy (eV)

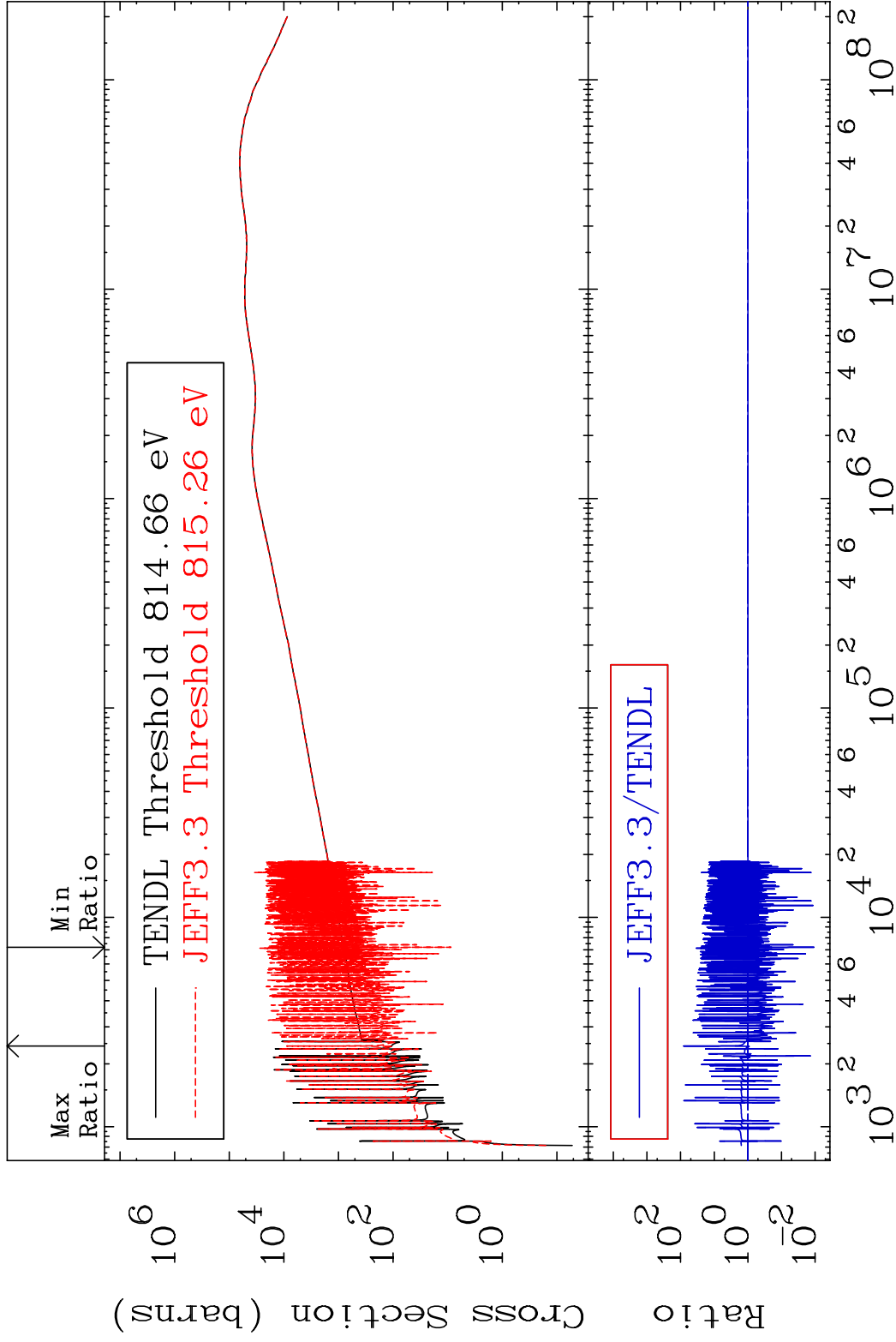
54-Xe-131

MAT 5446

Dpa elastic (mt2)

54-Xe-131

Cross Section -98.93 To 8010. %

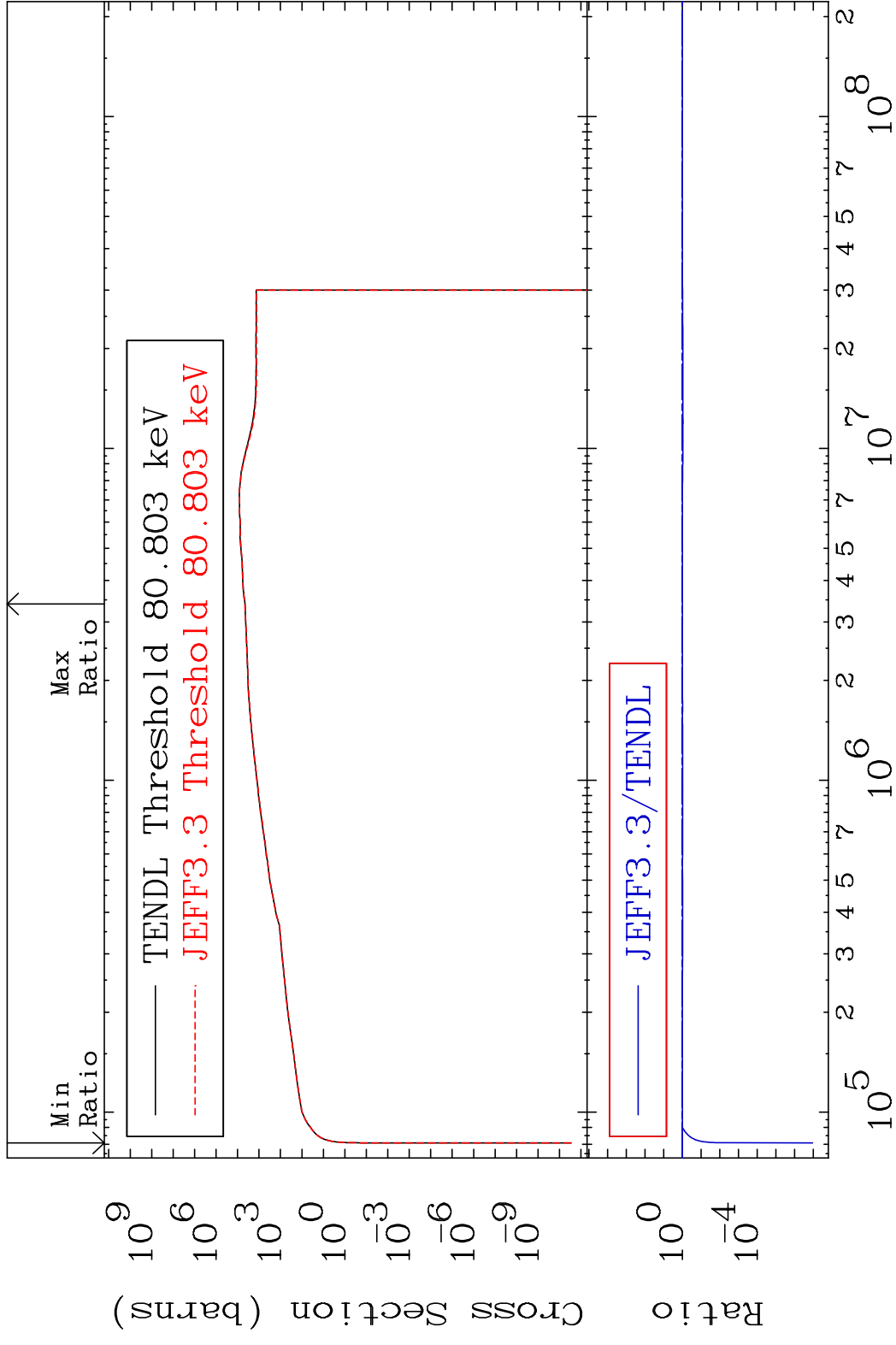


70

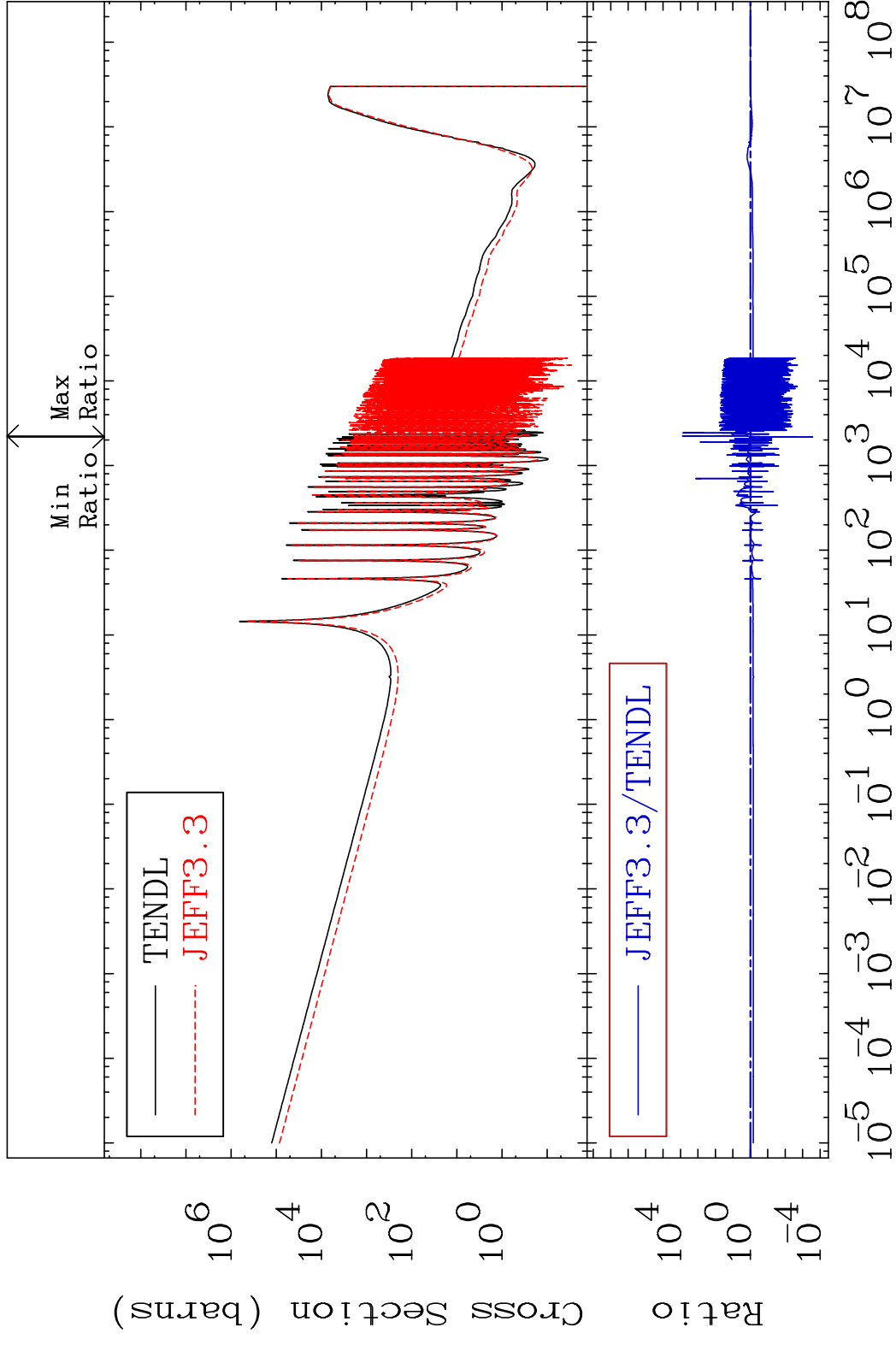
Incident Energy (eV)

54-Xe-131

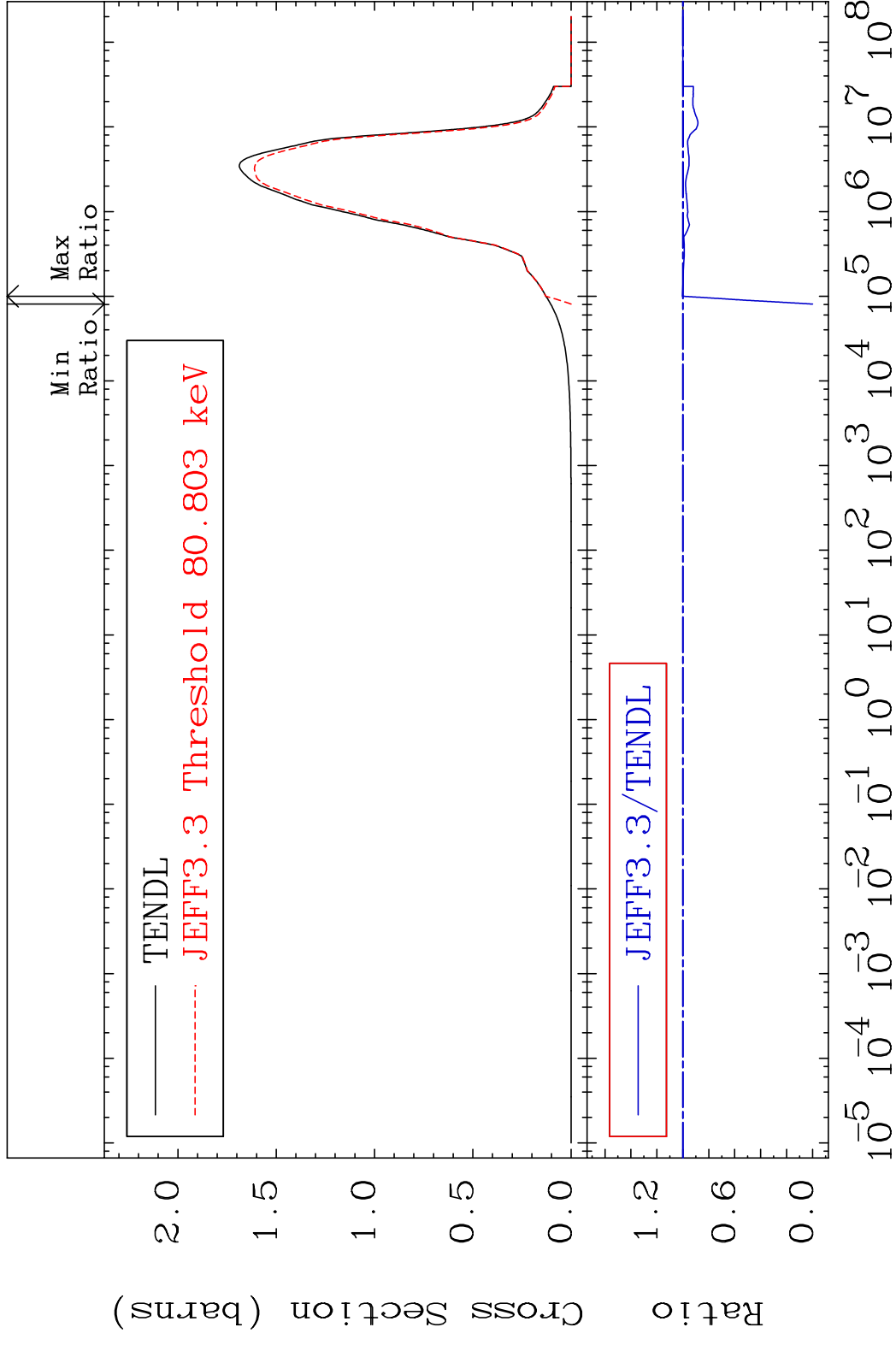
MAT 5446 Dpa inelastic (mt51-91) 54-Xe-131
 Cross Section -100.0 To 0.760 %



MAT 5446 Dpa disappearance (mt102 -120) 54-Xe-131
 Cross Section -99.97 To 9999. %

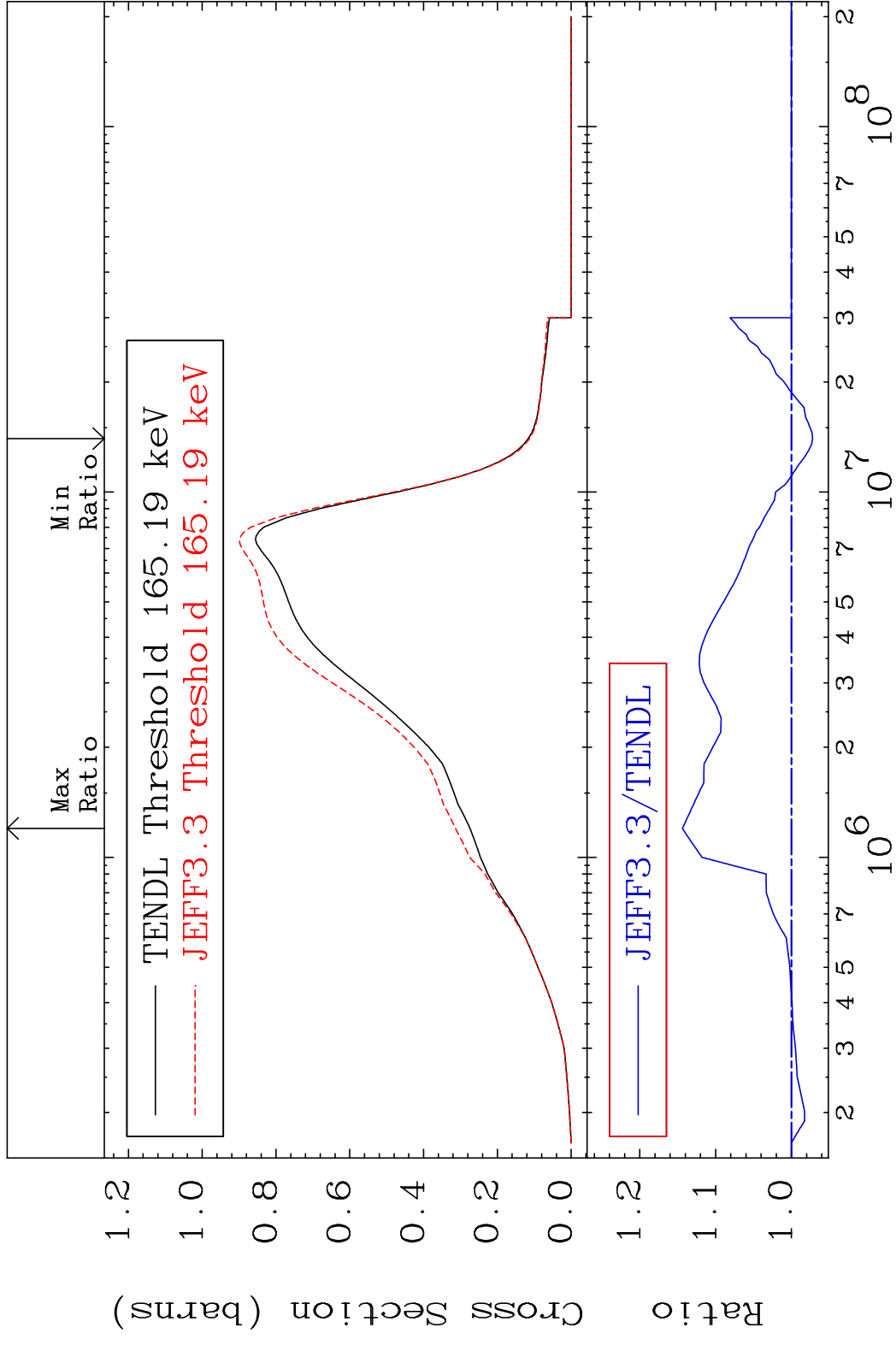


MAT 5446 Inelastic:54-Xe-131g 54-Xe-131
 Radionuclide Production Cross Section Ratio 0.357 %

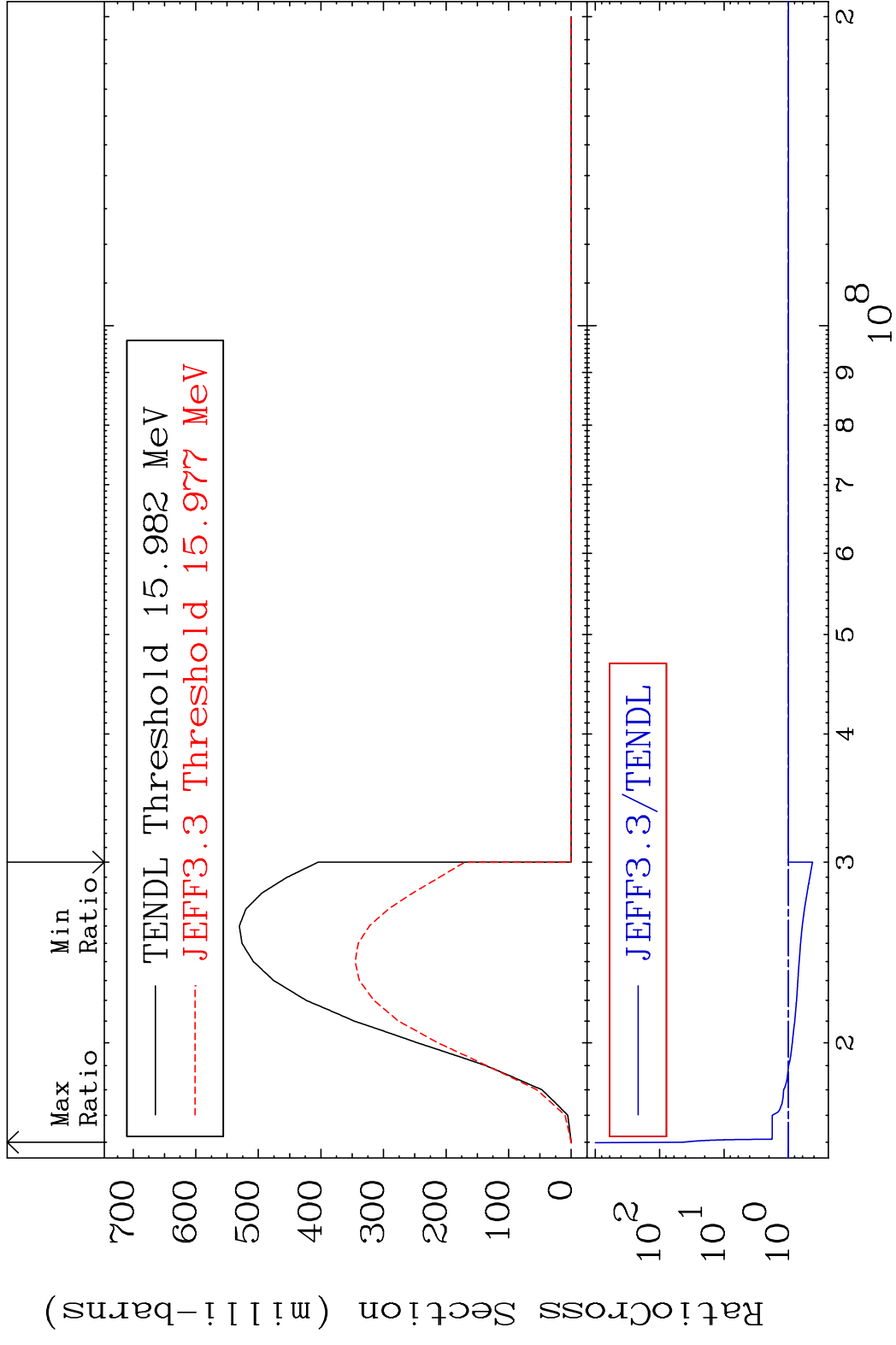


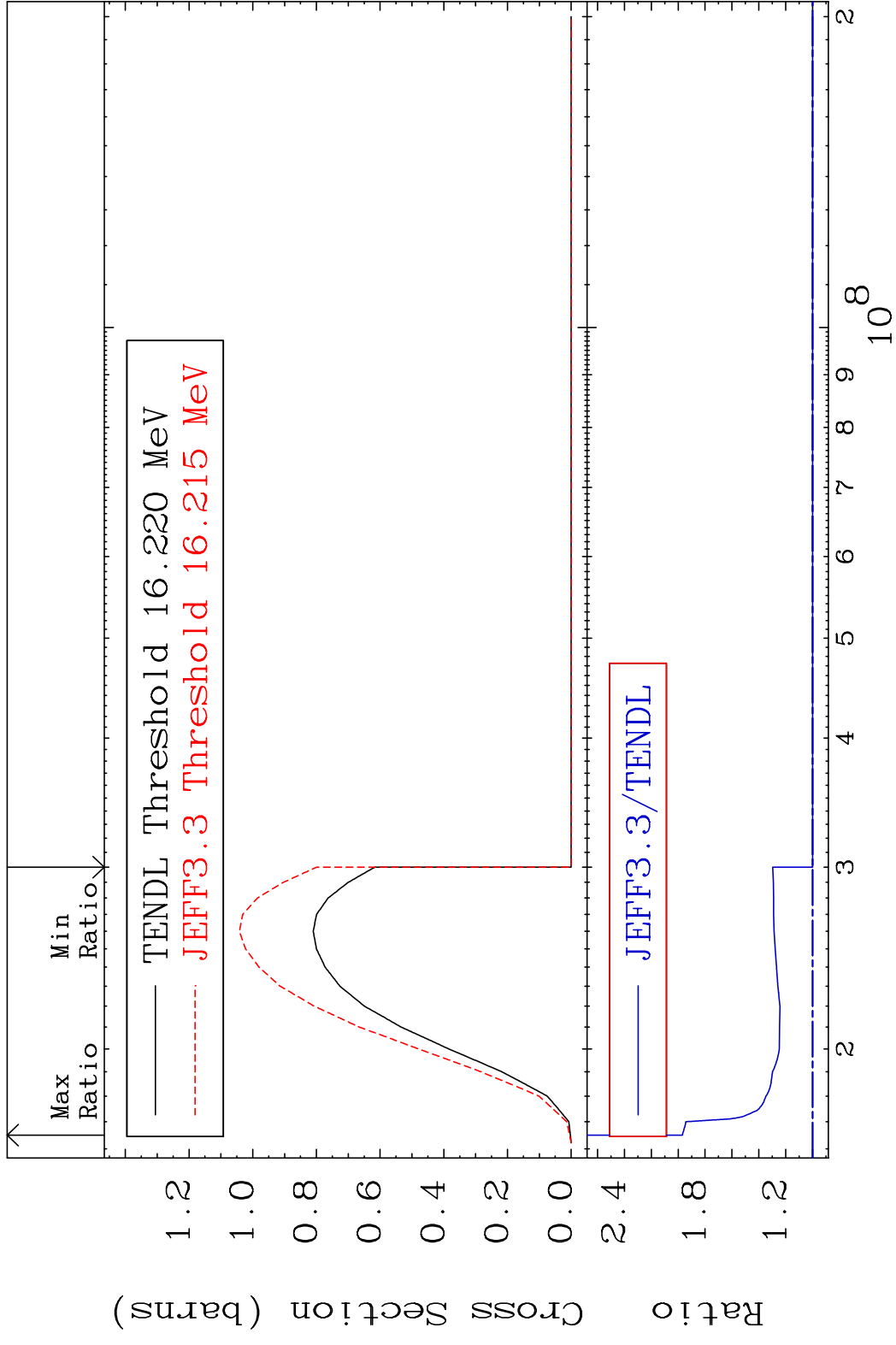
73 Incident Energy (eV) 54-Xe-131

MAT 5446 Inelastic:54-Xe-131m2 54-Xe-131
 Radionuclide Production Cross Section 14.38 %

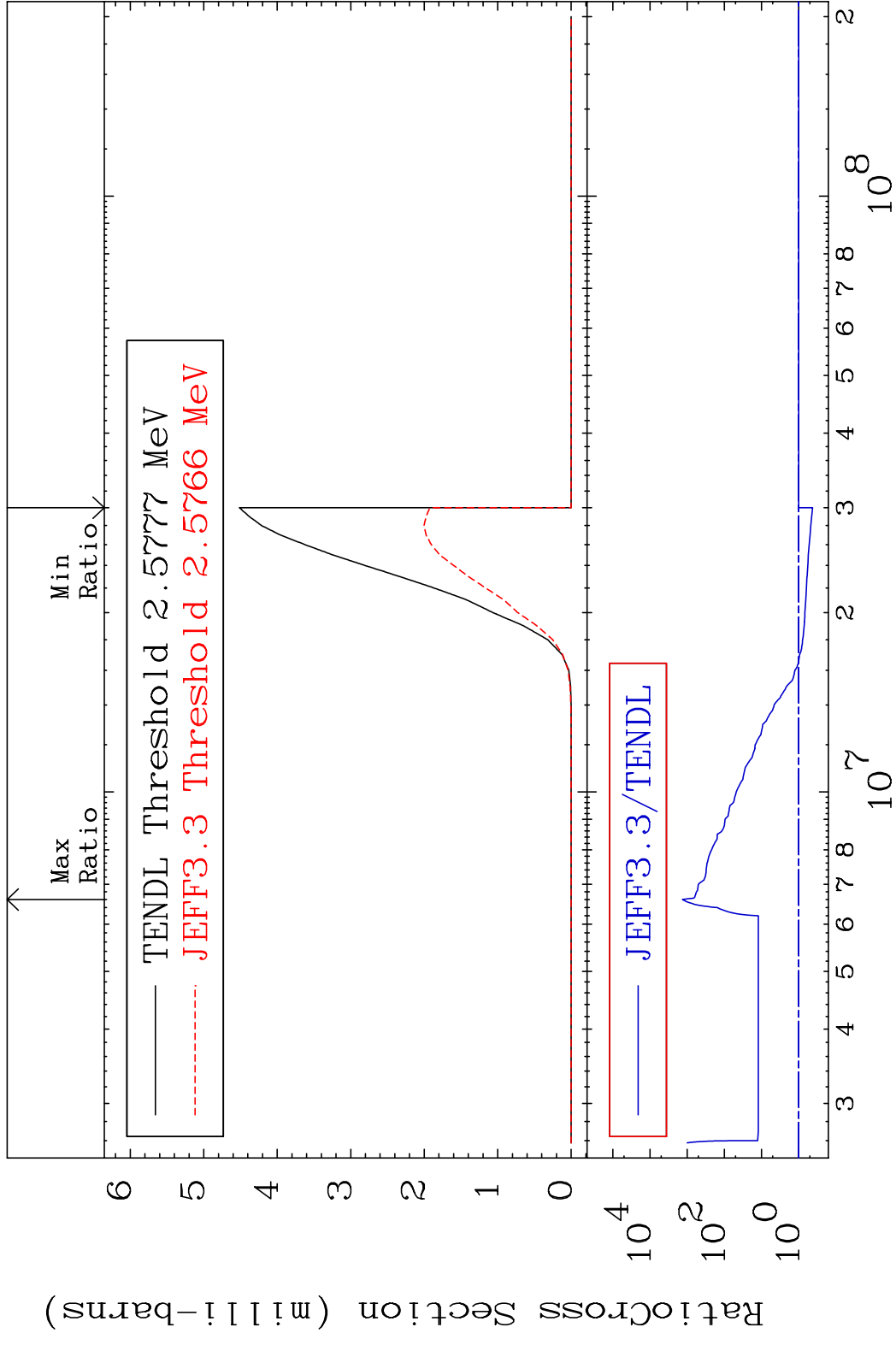


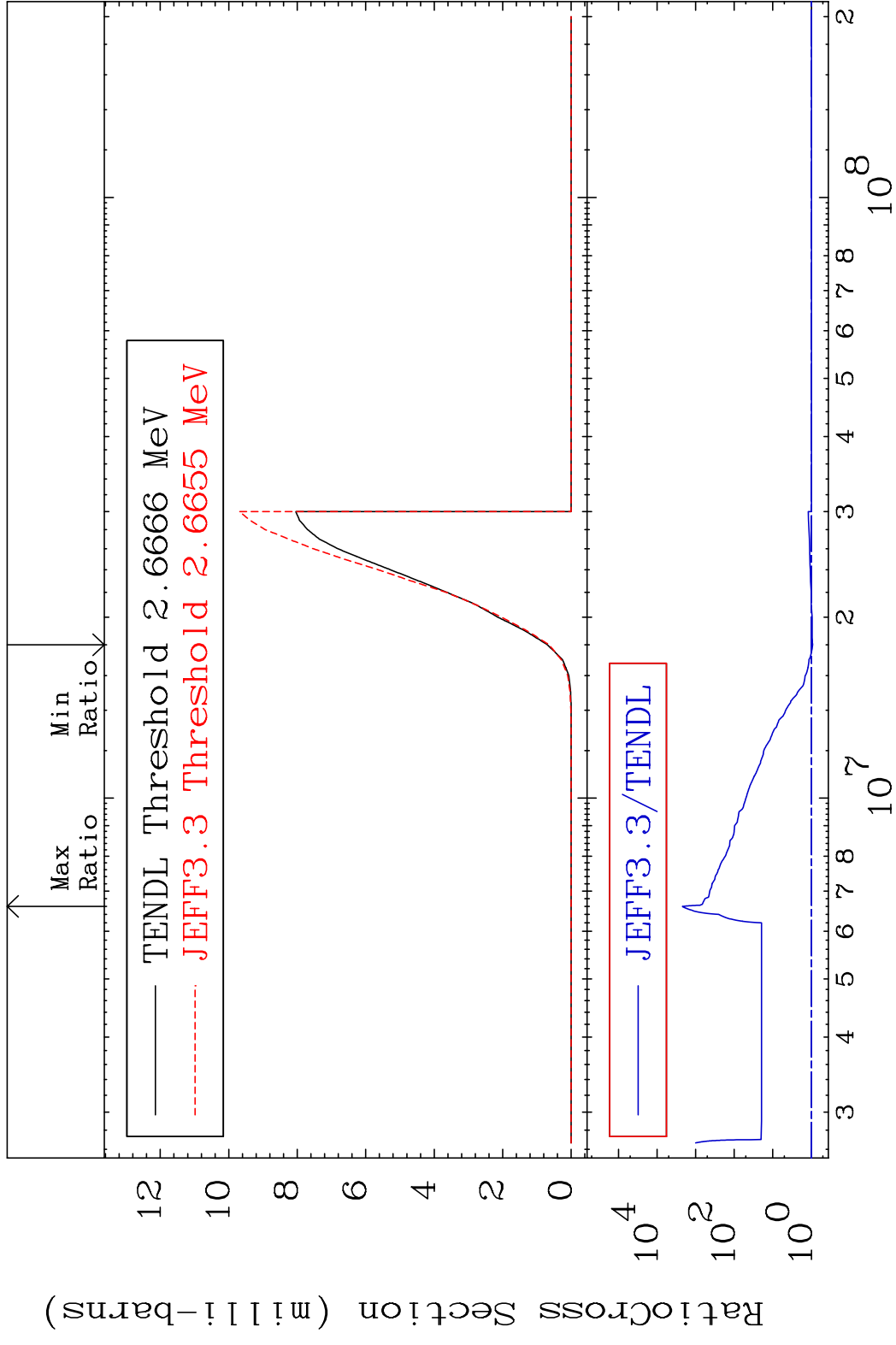
MAT 5446 (n,3n):54-Xe-129g 54-Xe-131
 Radionuclide Production Cross Section 5446 to 4342. %

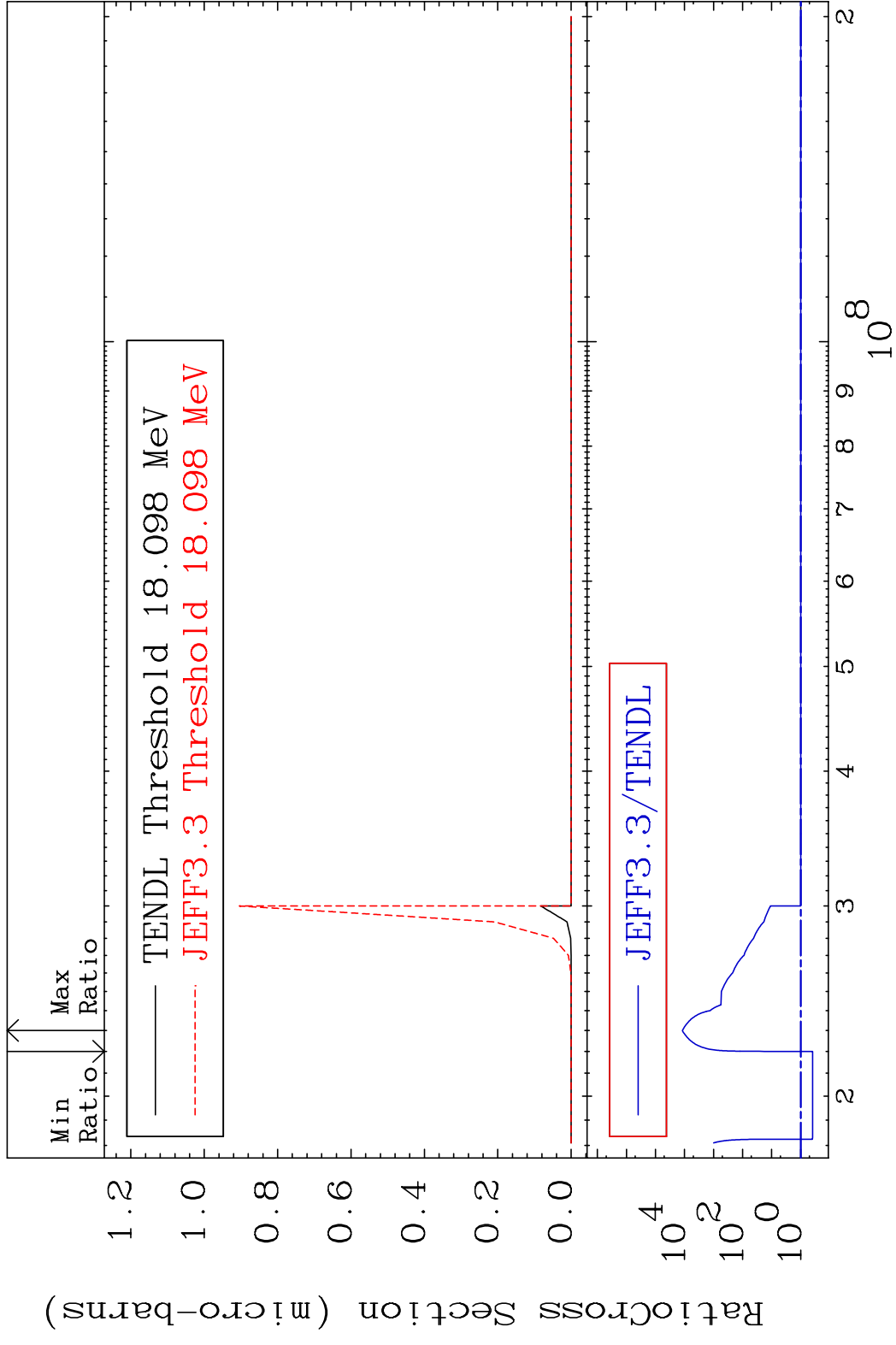




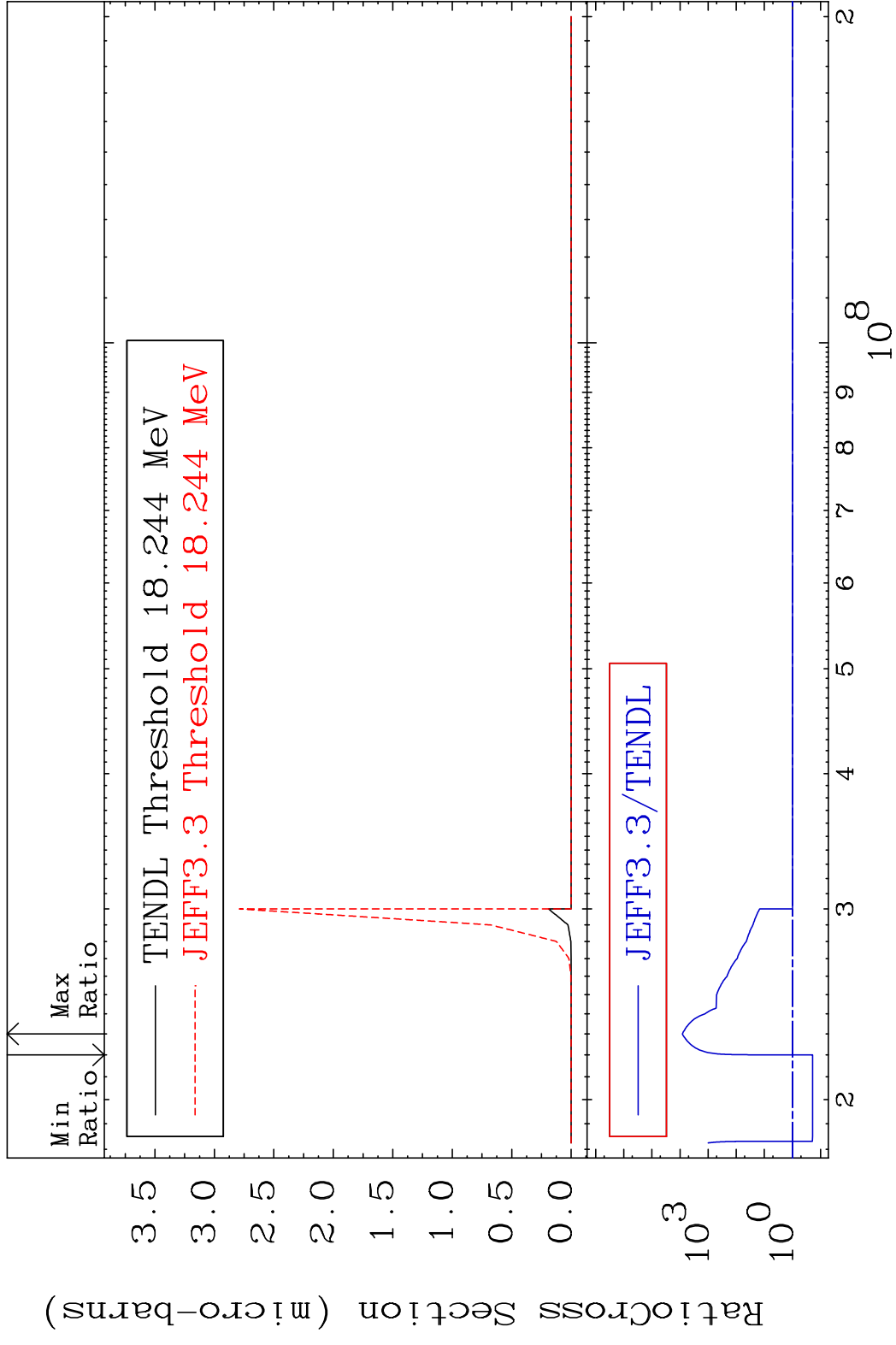
MAT 5446 (n, n') α :52-Te-127g 54-Xe-131
 Radionuclide Production Cross Section 5446 to 9999. %



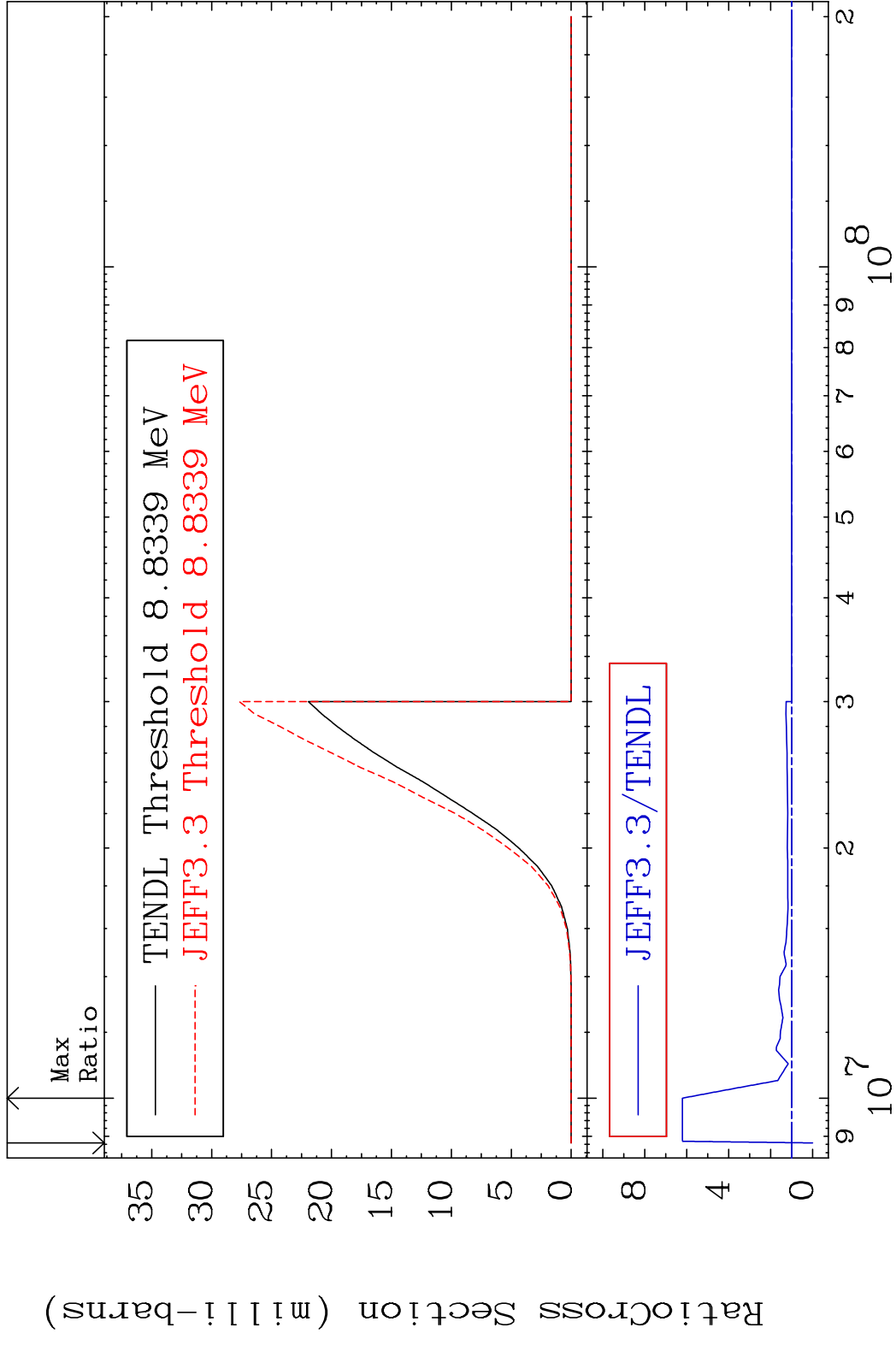




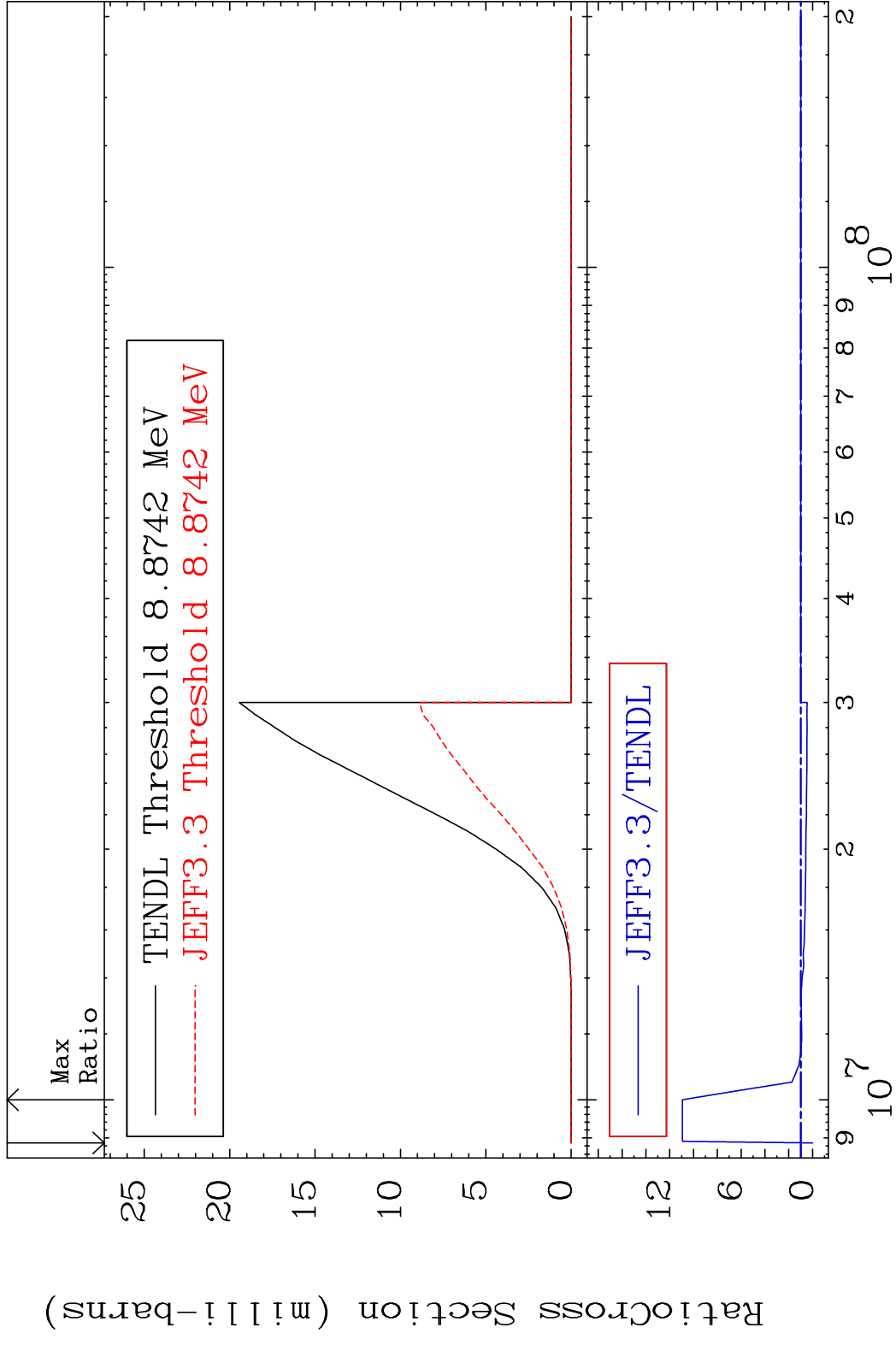
MAT 5446 (n,3n) α :52-Te-125m2 54-Xe-131
 Radionuclide Production Cross Section to 9999. %



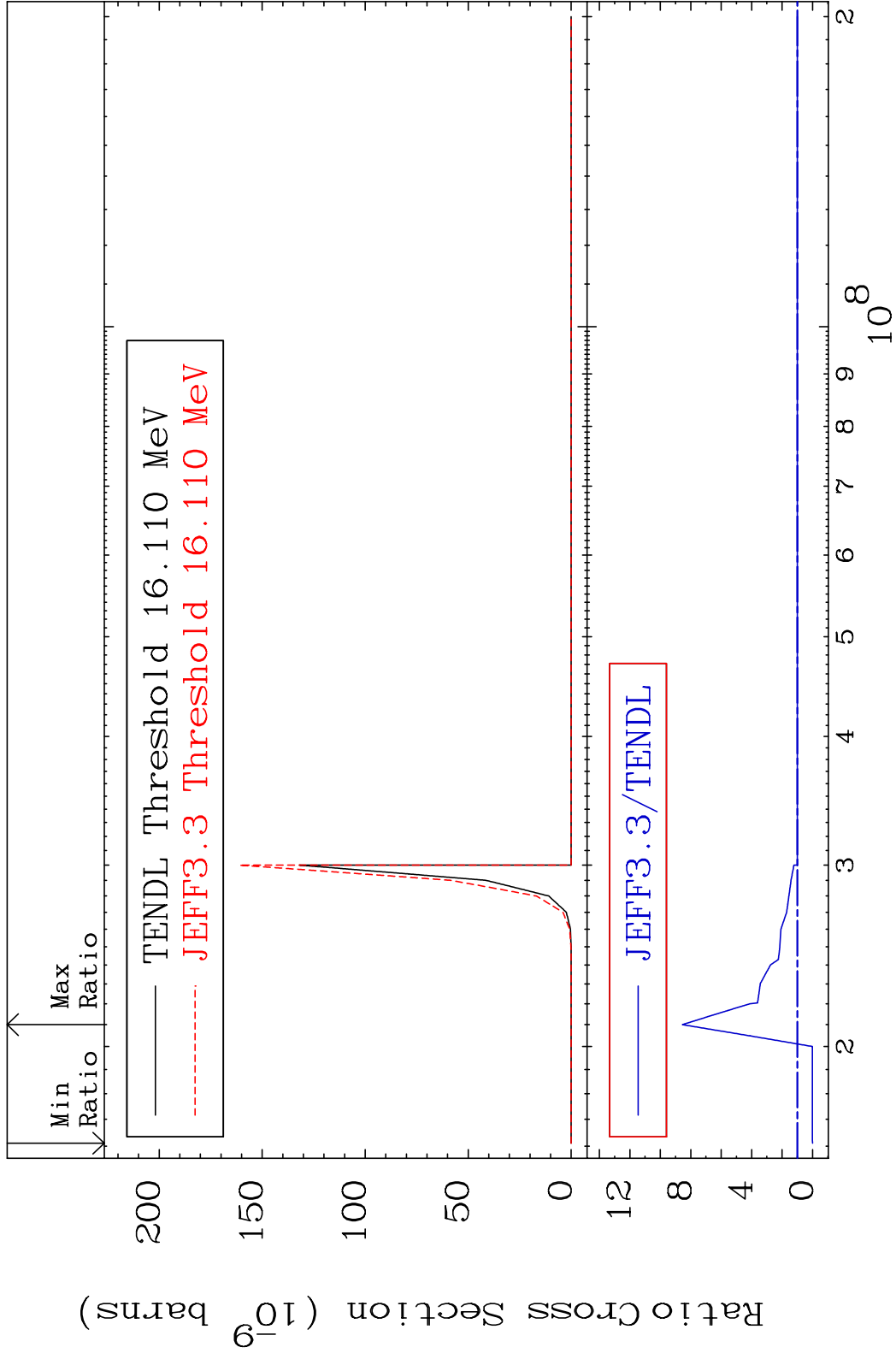
MAT 5446 (n, n') p:53-I -130g 54-Xe-131
 Radionuclide Production Cross Section 180.0 dth 520.7 %



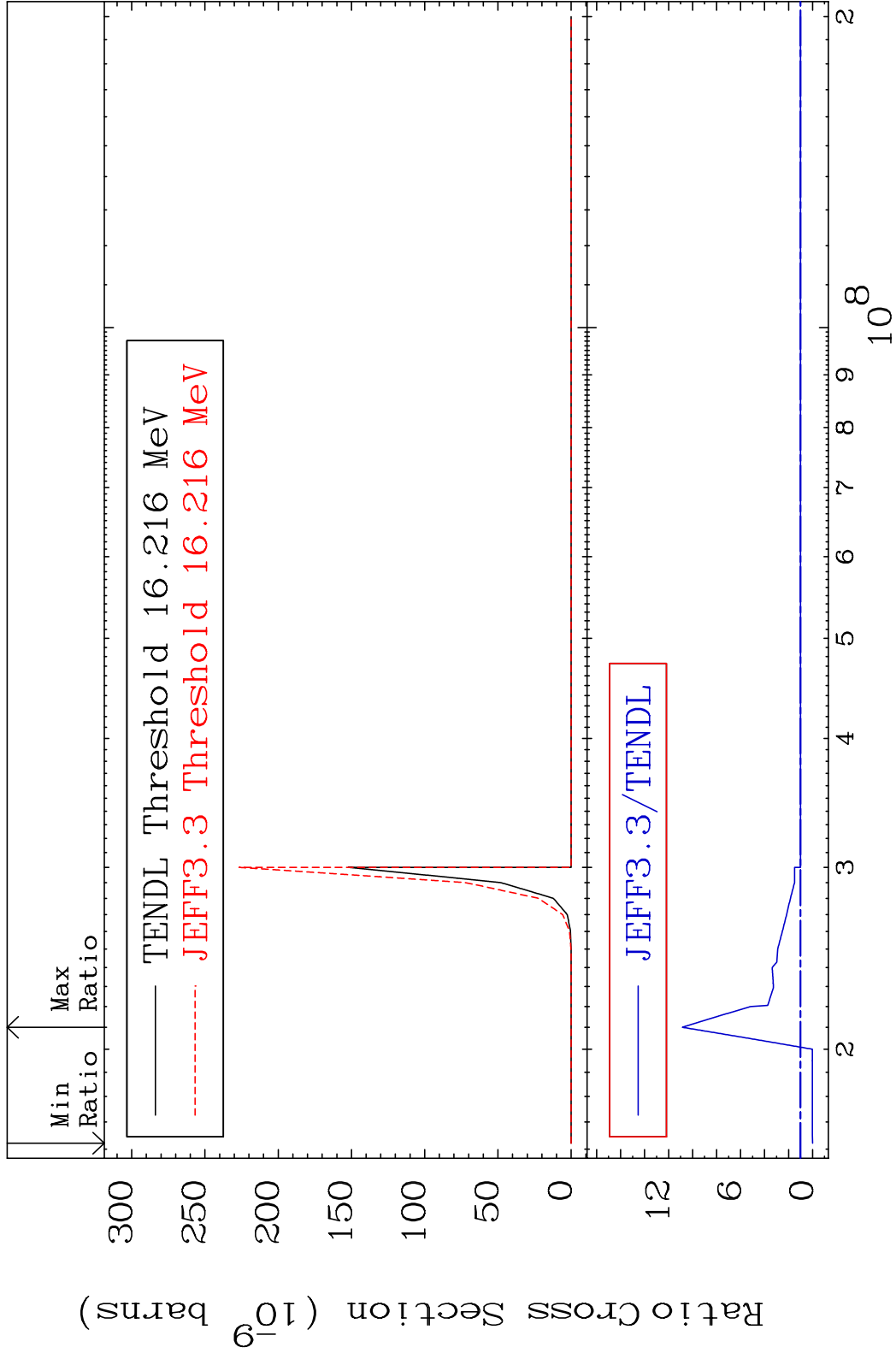
MAT 5446 (n, n') p:53-I -130m1 54-Xe-131
 Radionuclide Production Cross Section 100.0% to 993.8 %

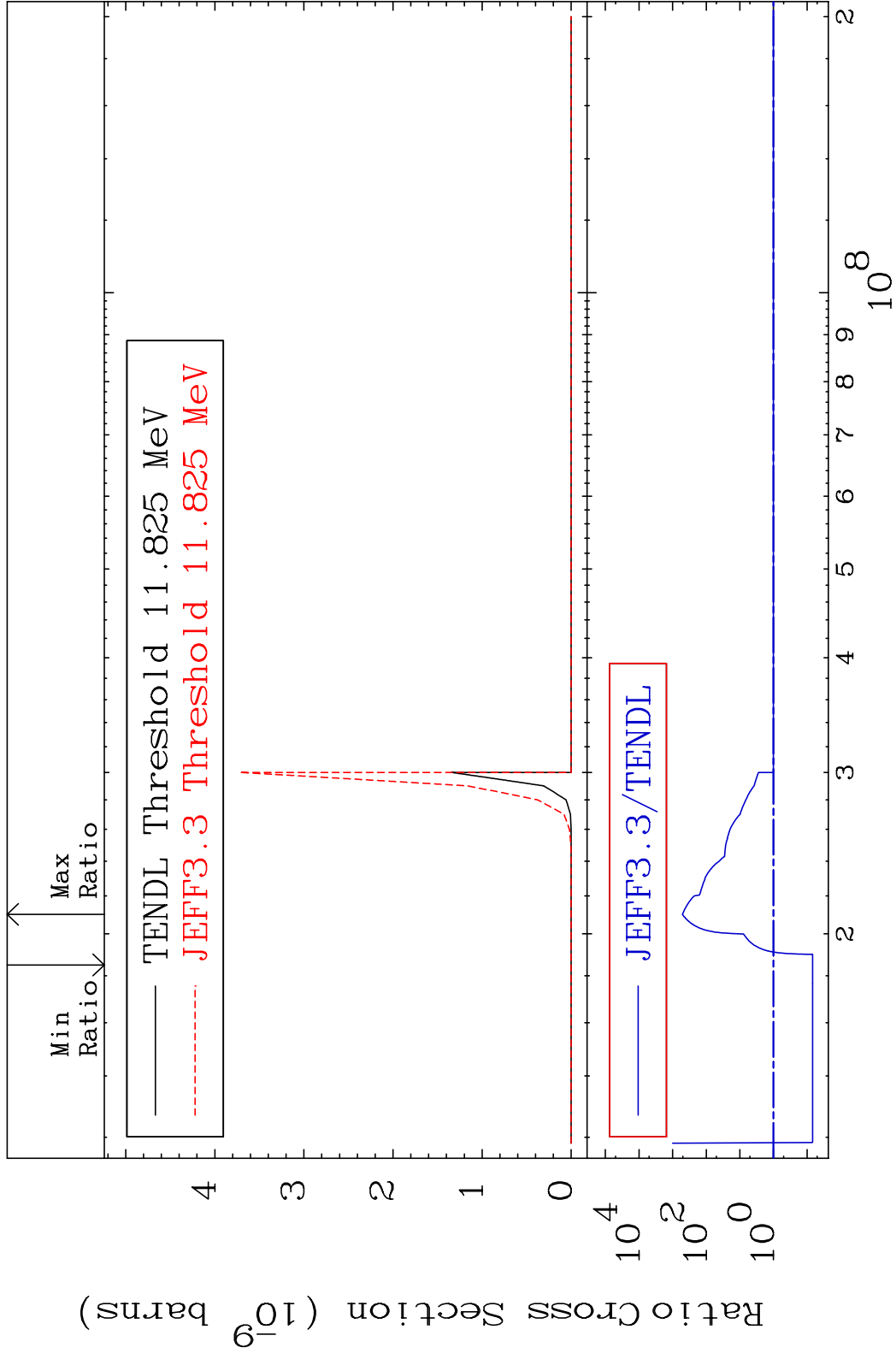


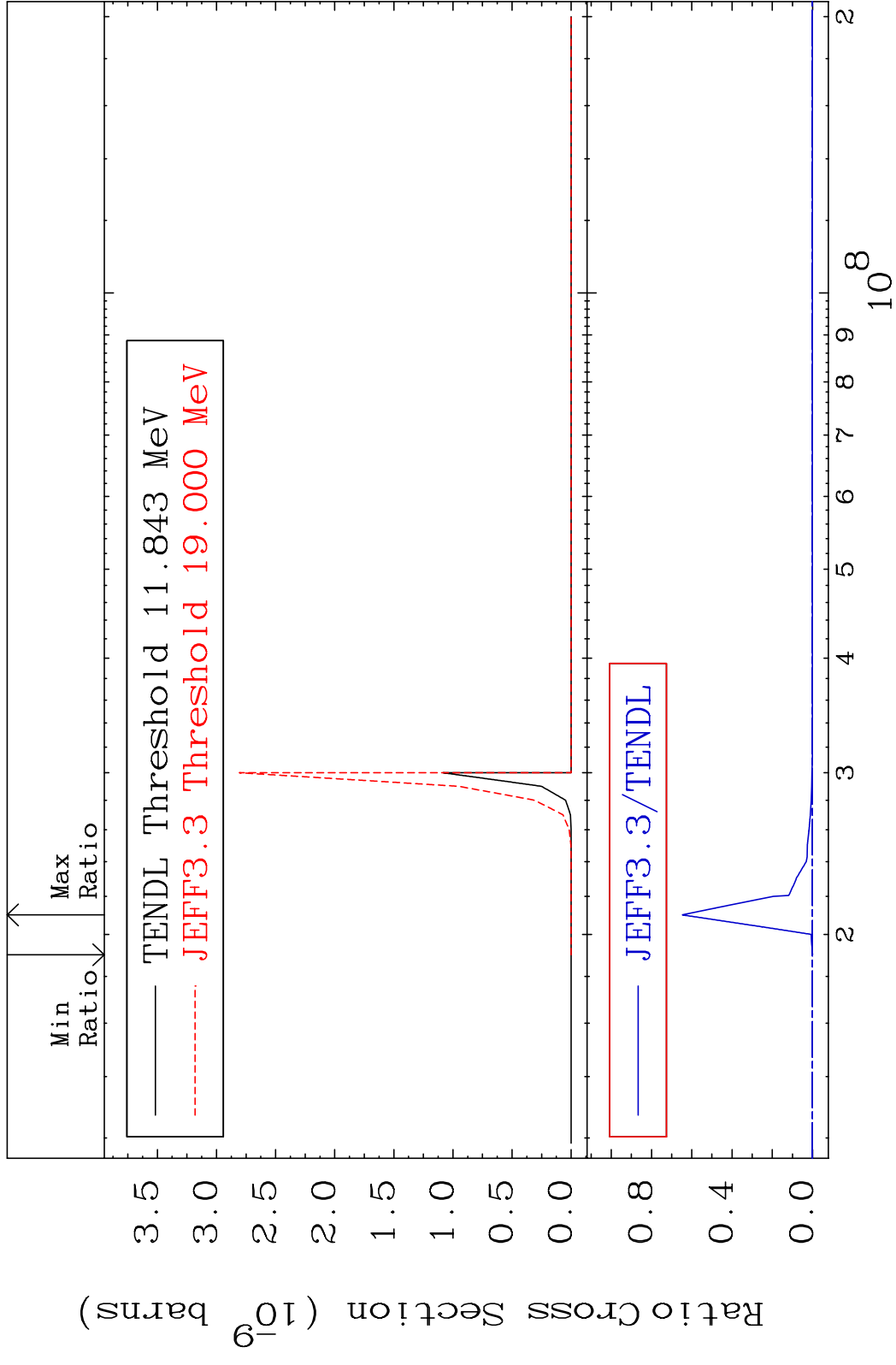
MAT 5446 (n,2n) p:52-Te-129g 54-Xe-131
 Radionuclide Production Cross Section 180.01 dth 755.1 %

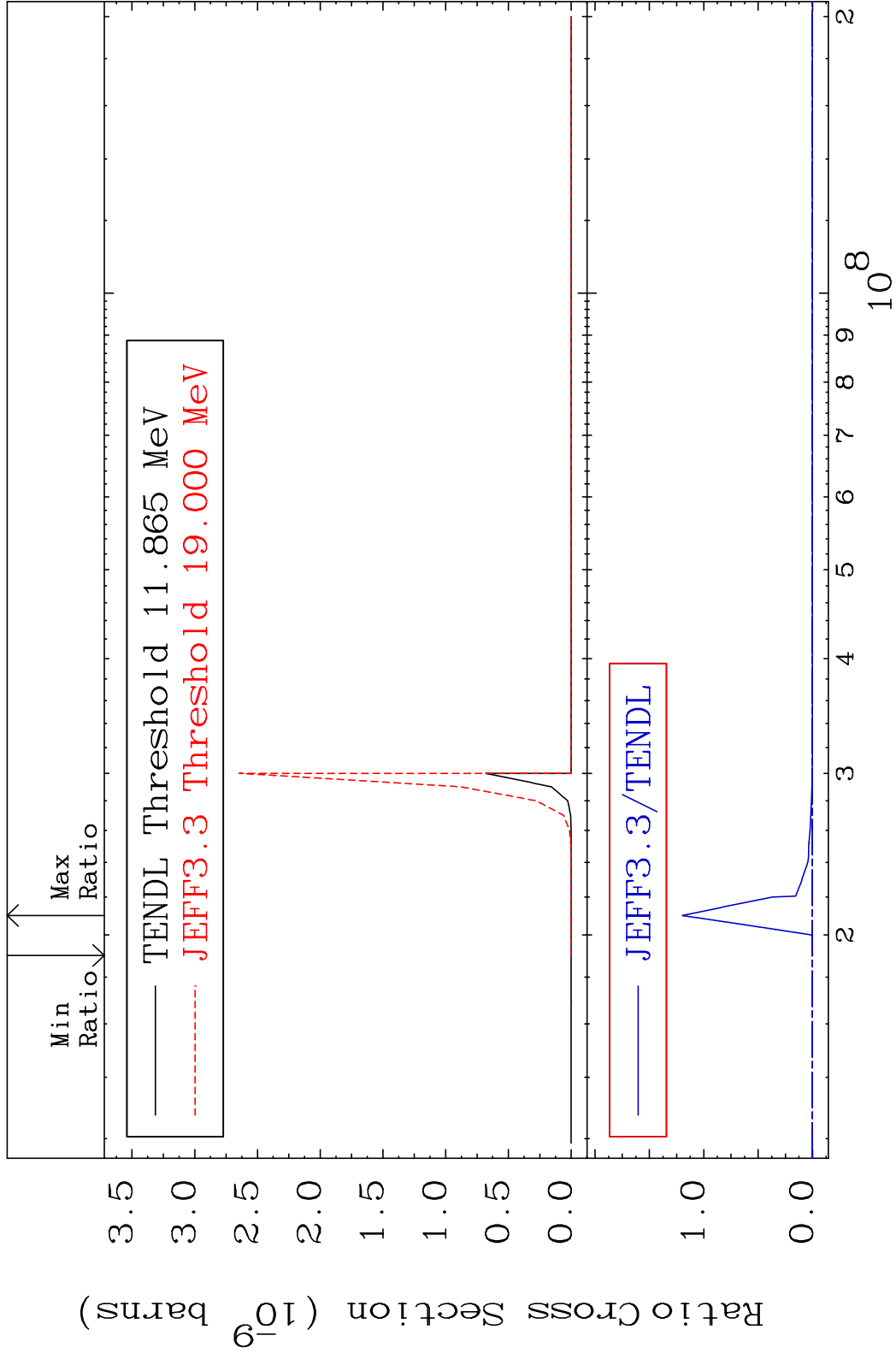


MAT 5446 (n,2n) p:52-Te-129m1 54-Xe-131
 Radionuclide Production Cross Section 180.01 dth 985.3 %

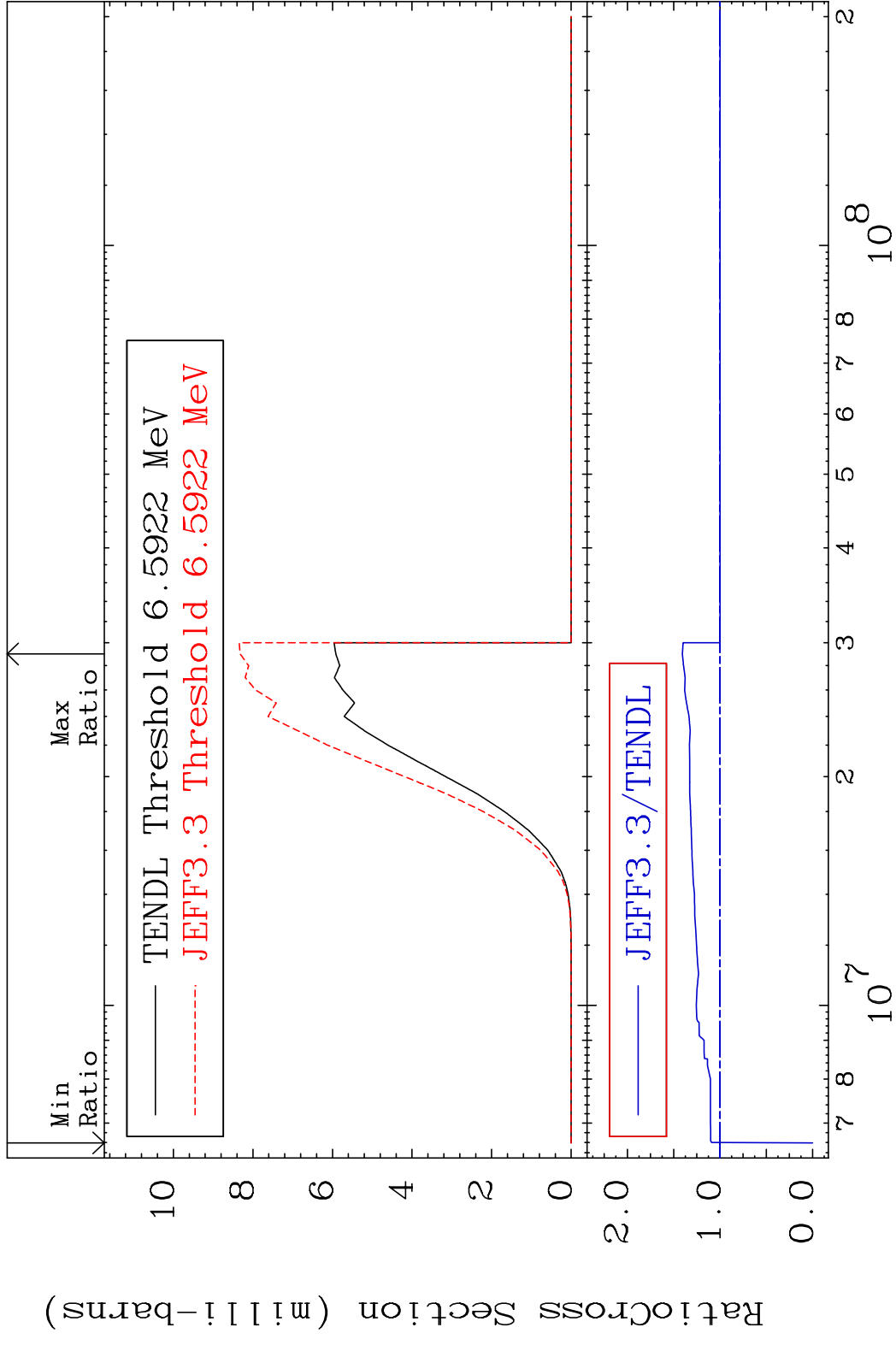




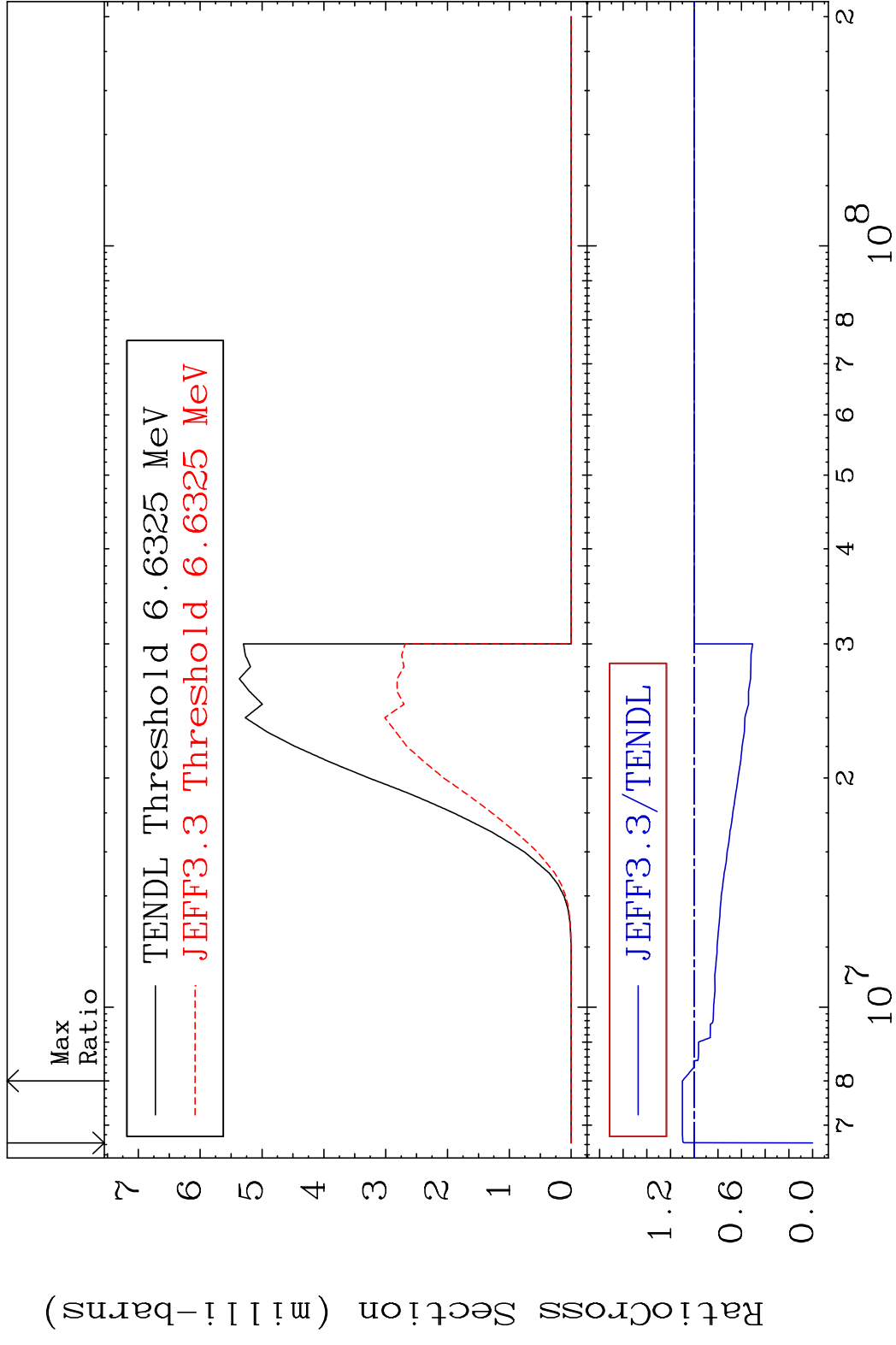




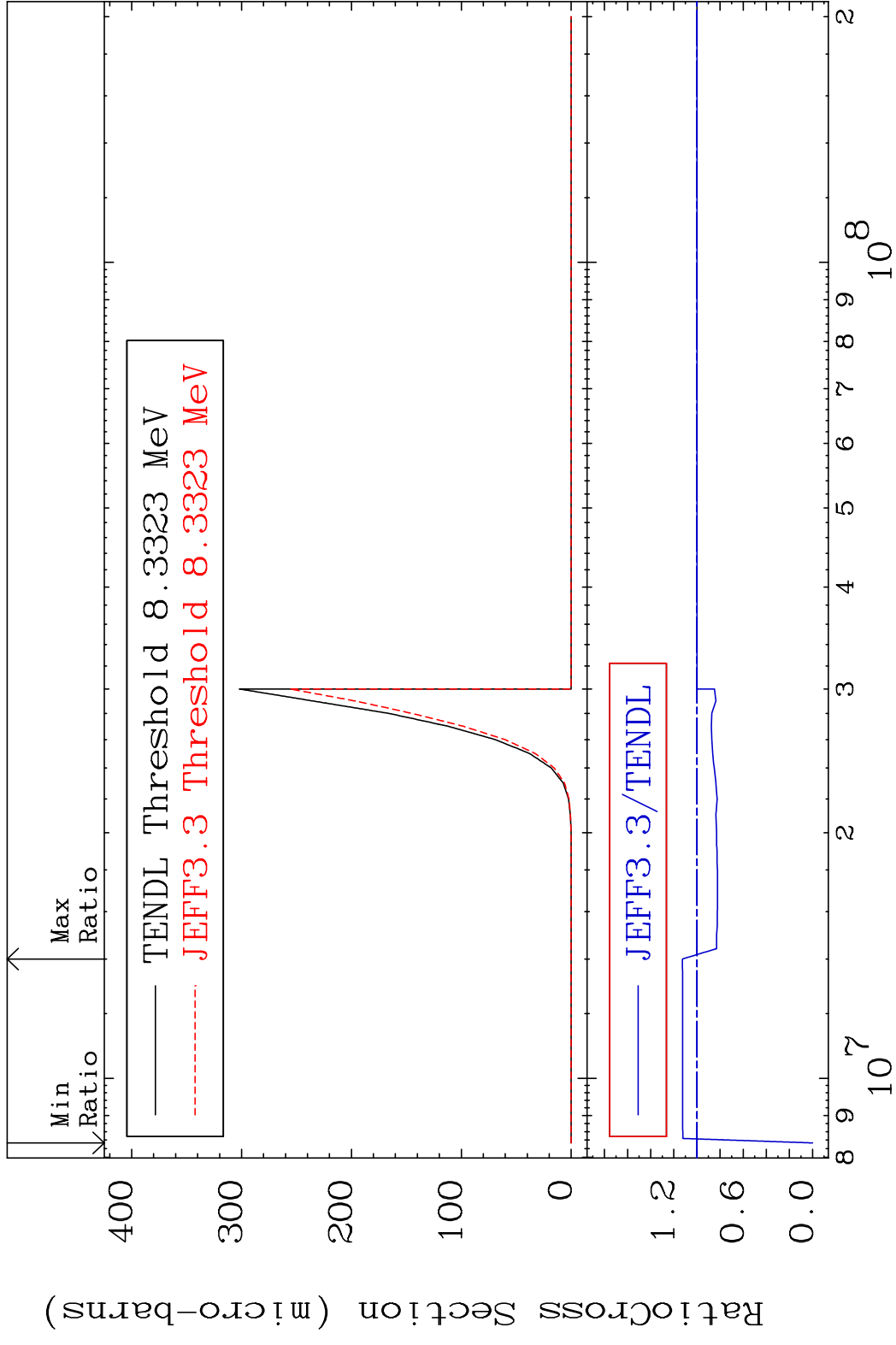
MAT 5446 (n, d):53-I -130g 54-Xe-131
 Radionuclide Production Cross Section 40.64 %



MAT 5446 (n, d):53-I -130m1 54-Xe-131
 Radionuclide Production Cross Section 10.02 %

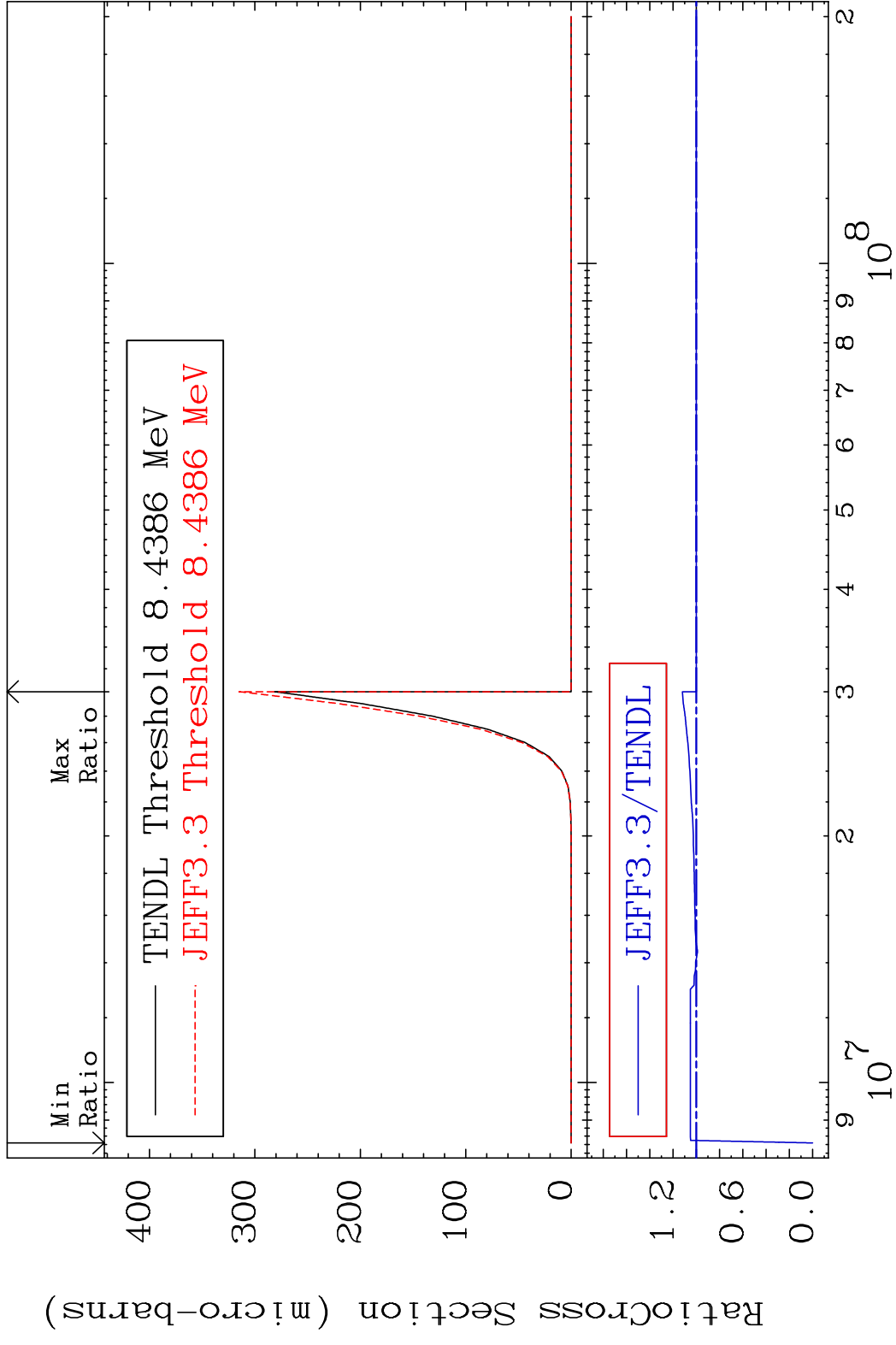


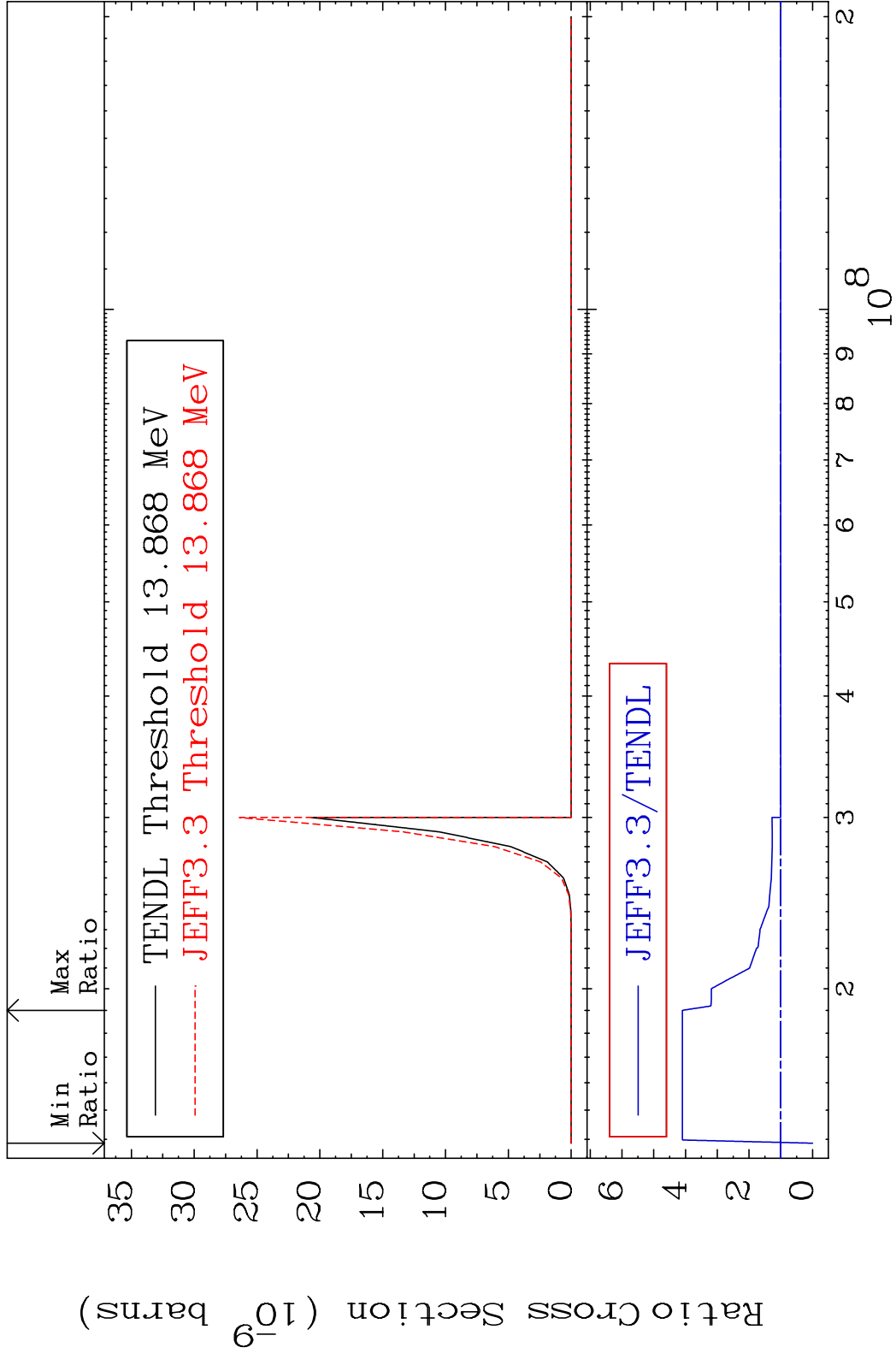
MAT 5446 (n, He-3): 52-Te-129g 54-Xe-131
 Radionuclide Production Cross Section 180.01 dpo 12.60 %



90 Incident Energy (eV) 54-Xe-131

MAT 5446 (n, He-3) : 52-Te-129m1 54-Xe-131
 Radionuclide Production Cross Section 180.01 dth 11.95 %





MAT 5446 (n, p) d:52-Te-129m1 54-Xe-131
 Radionuclide Production Cross Section Ratio 405.1 %

