

Program Complot
(Version 2021-1)

by

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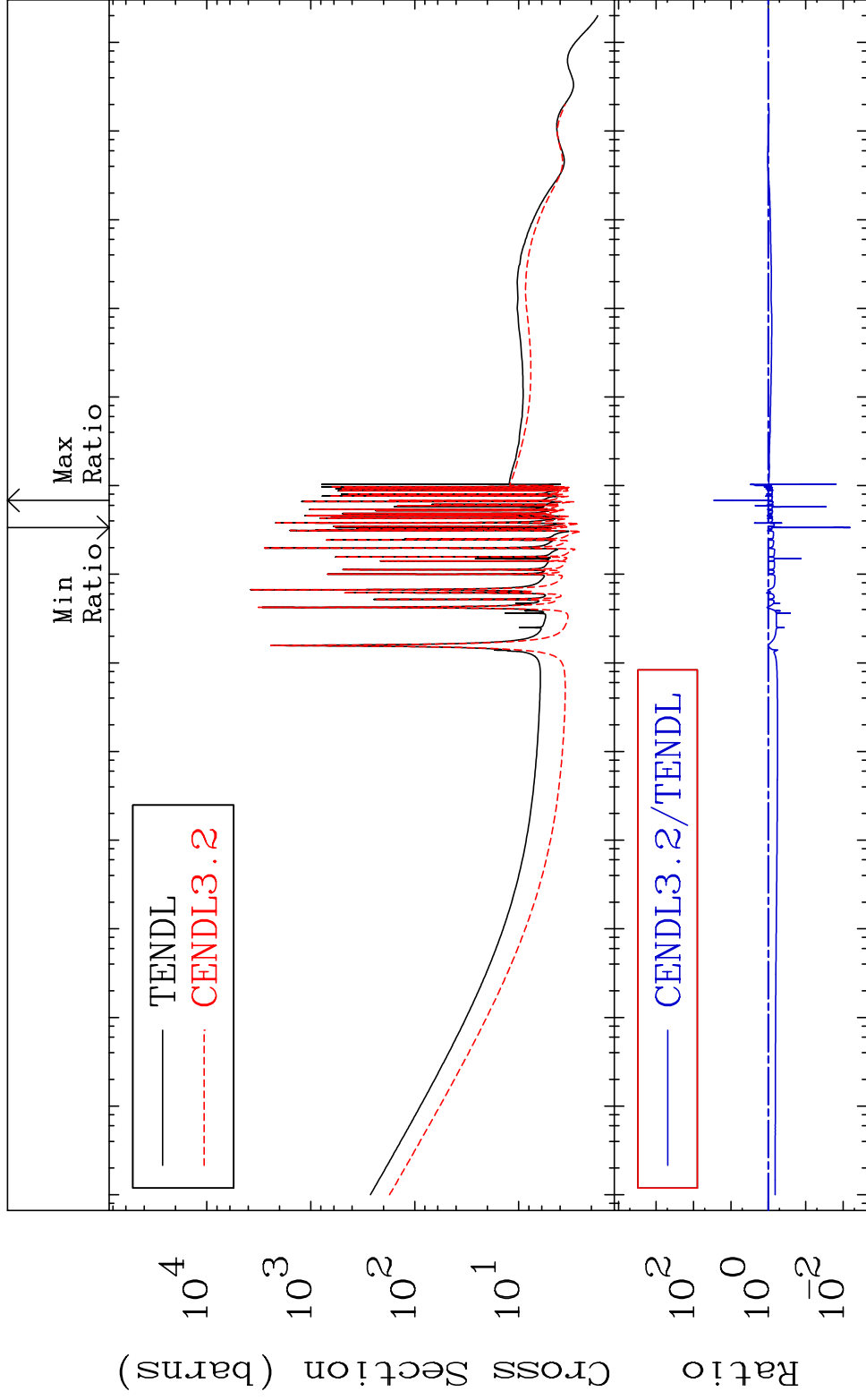
Press Mouse Button to Start

MAT 4440

Total

44-Ru-101

Cross Section -99.36 To 2725. %



1

Incident Energy (eV)

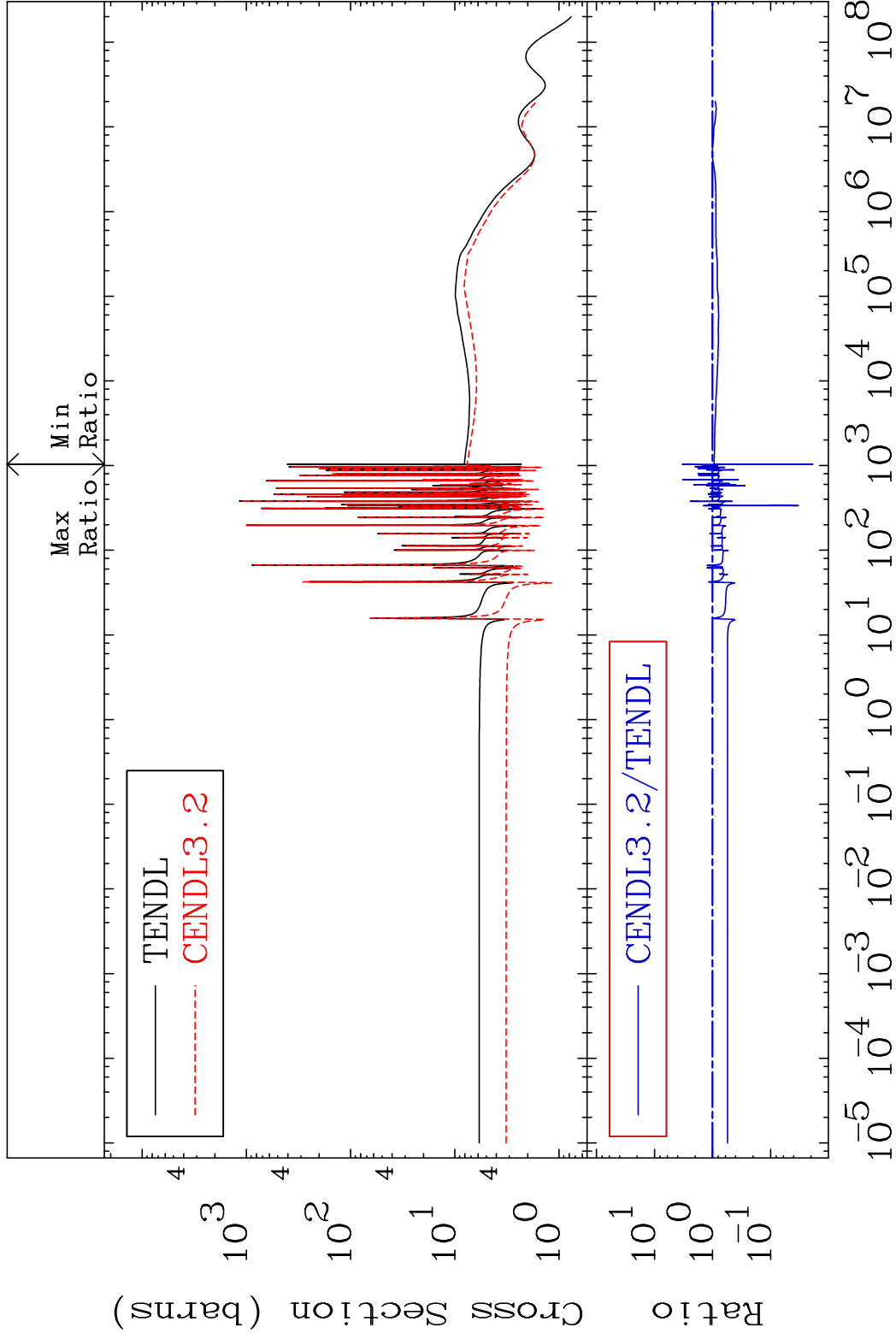
44-Ru-101

MAT 4440

Elastic

44-Ru-101

Cross Section -98.11 To 231.1 %

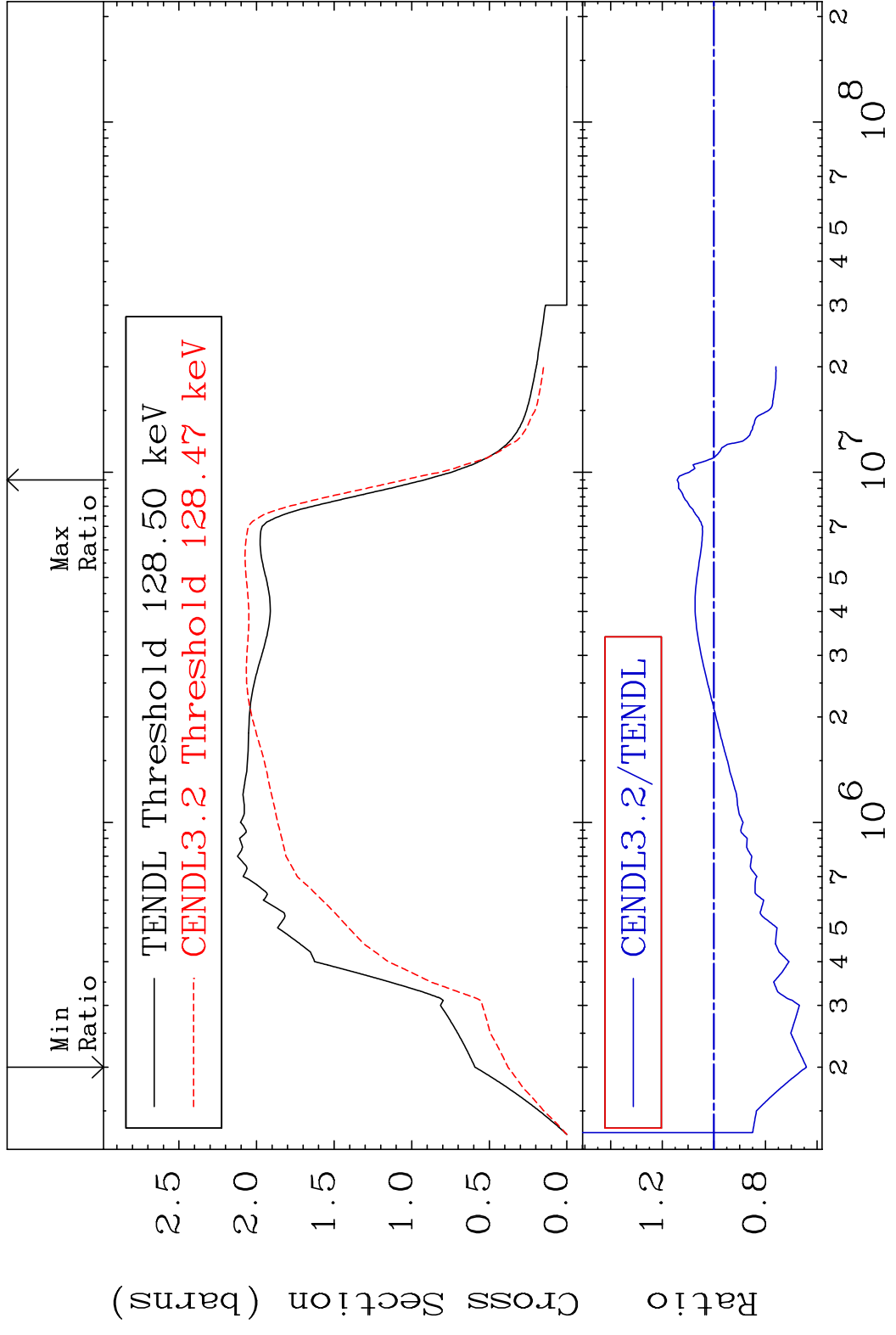


2

Incident Energy (eV)

44-Ru-101

MAT 4440 Inelastic 44-Ru-101
 Cross Section -35.89 To 14.20 %

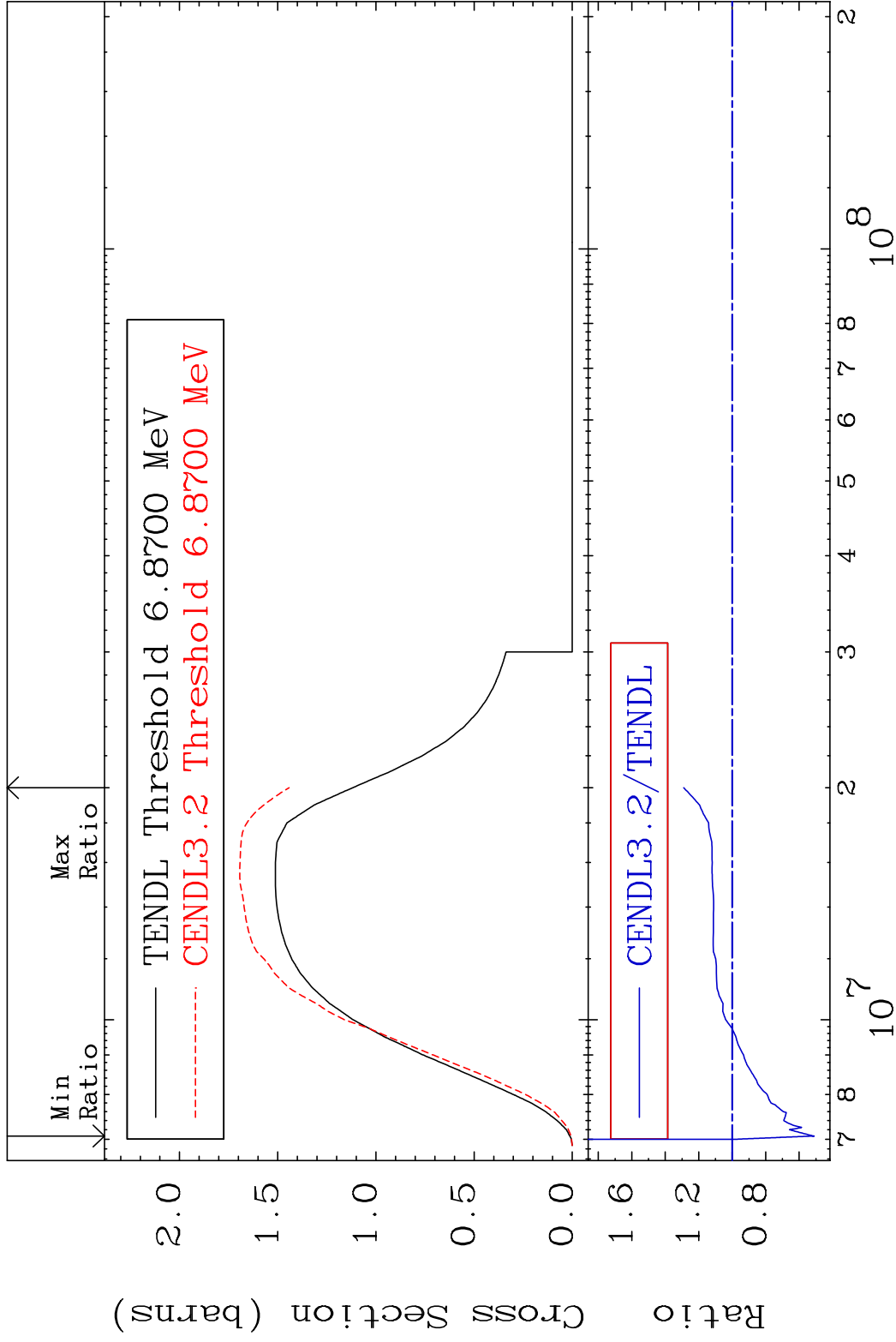


MAT 4440

(n,2n)

44-Ru-101

Cross Section -48.94 To 29.02 %



4

Incident Energy (eV)

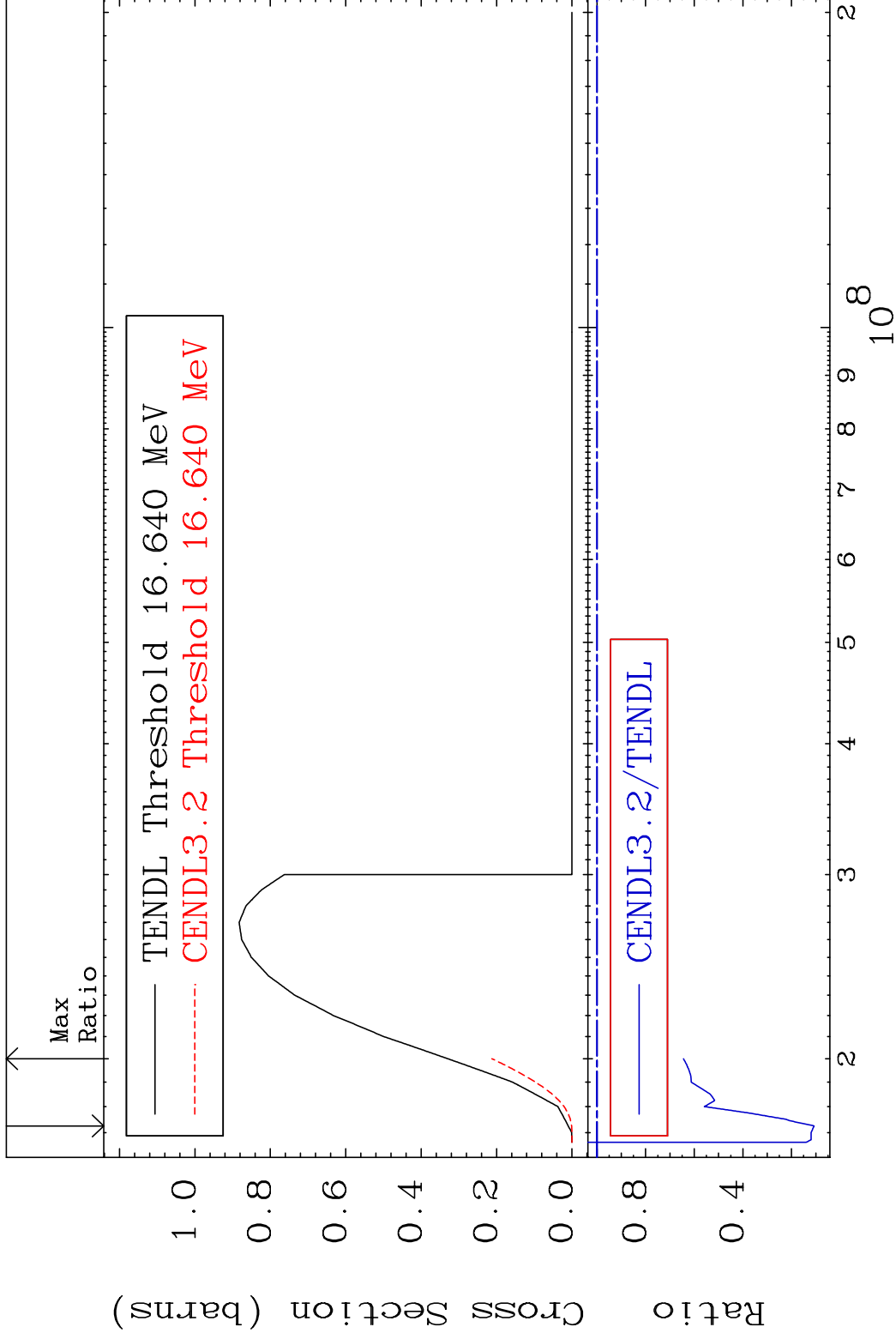
44-Ru-101

MAT 4440

(n,3n)

44-Ru-101

Cross Section -89.26 To -35.56%

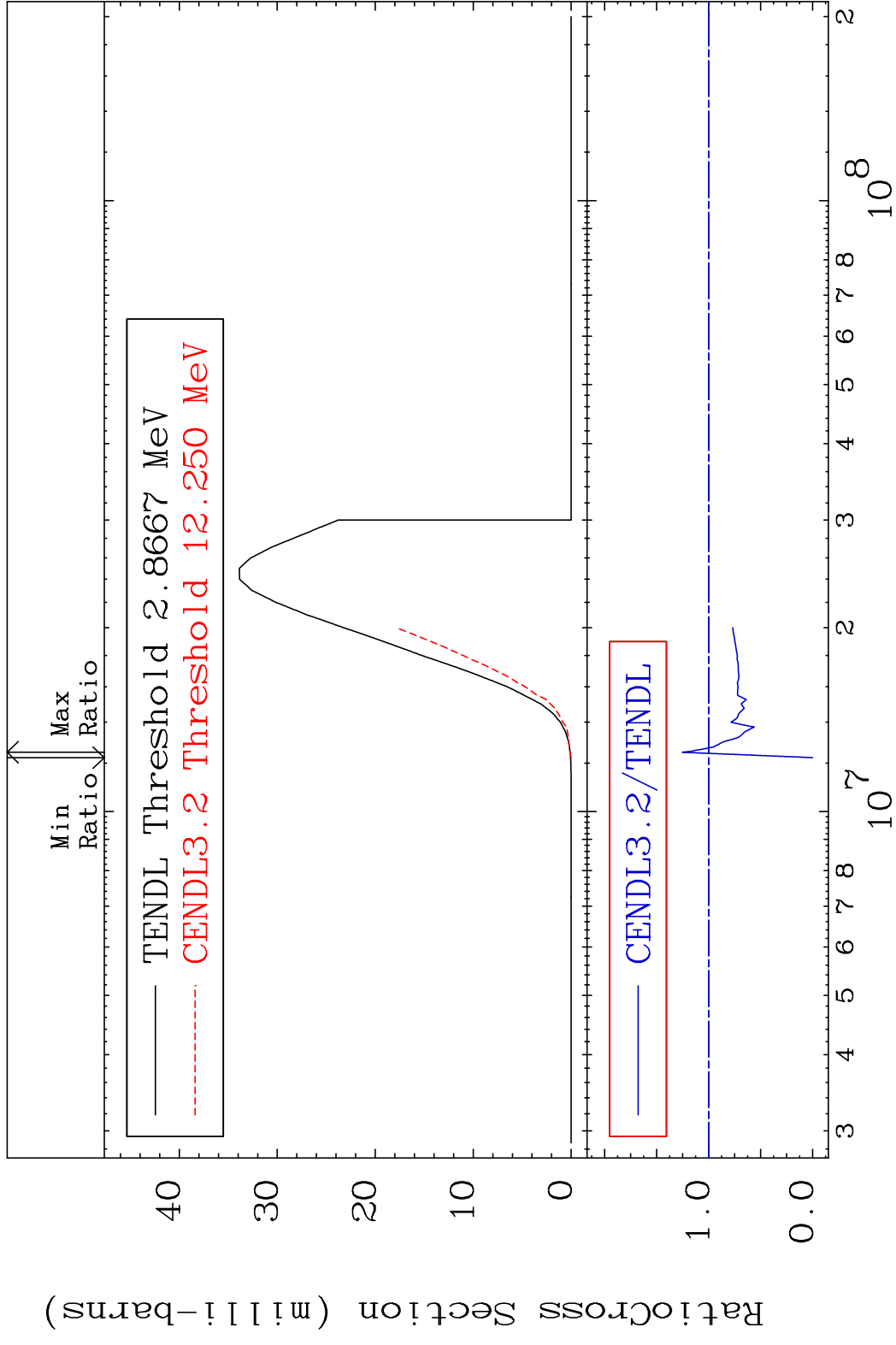


5

Incident Energy (eV)

44-Ru-101

MAT 4440 (n, n') α 44-Ru-101
 Cross Section -100.0 To 25.27 %

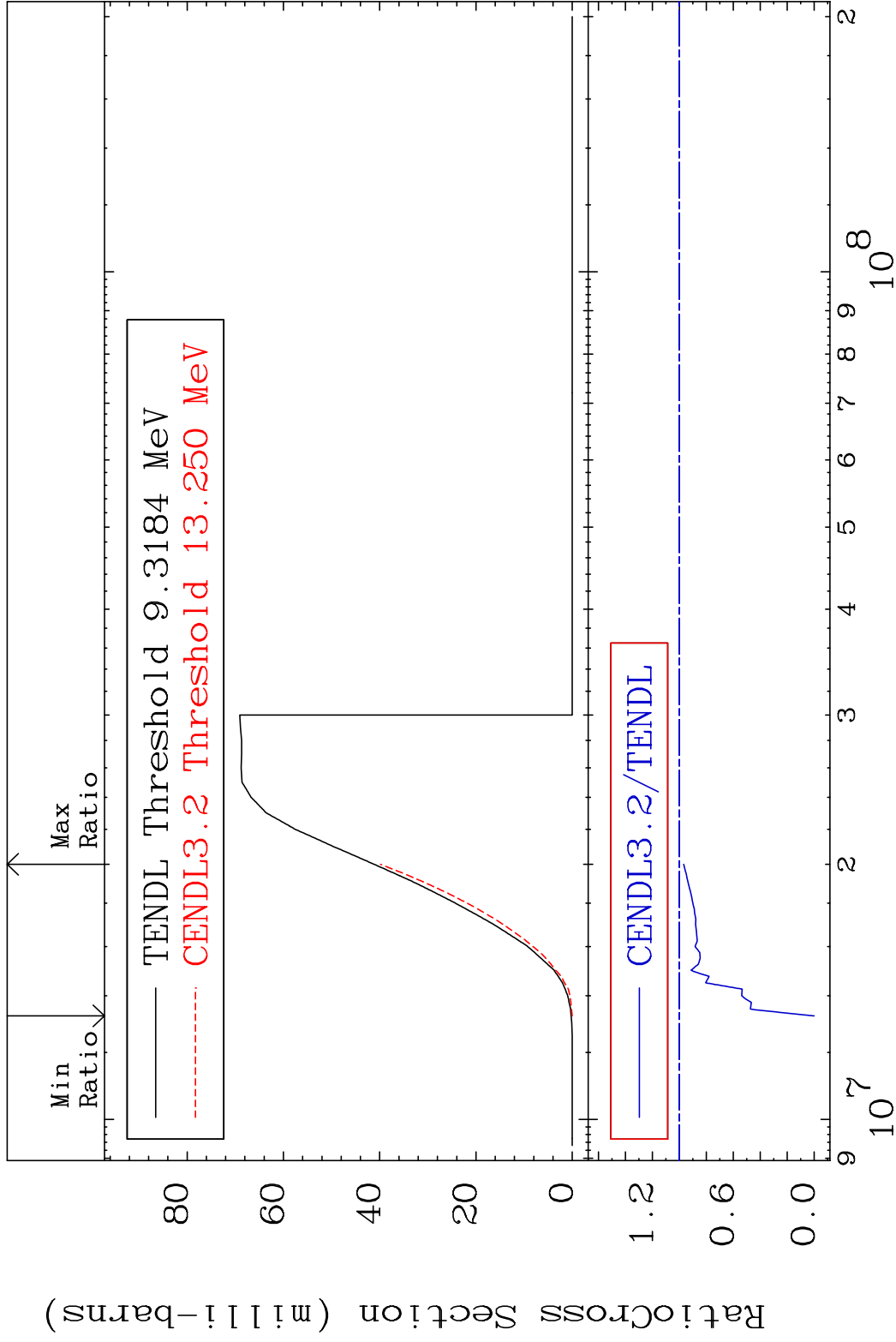


MAT 4440

(n, n') p

44-Ru-101

Cross Section -100.0 To -3.217%

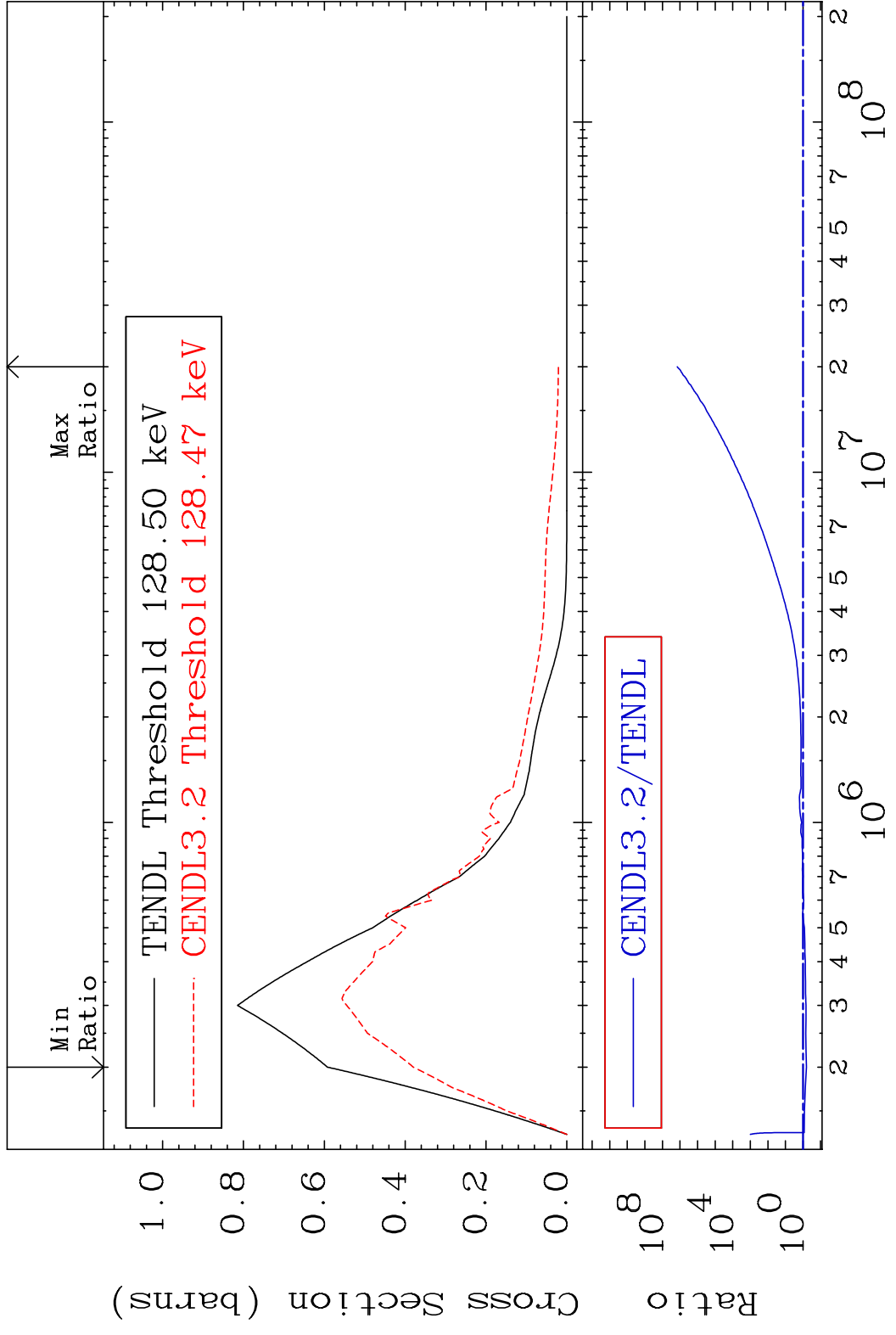


7

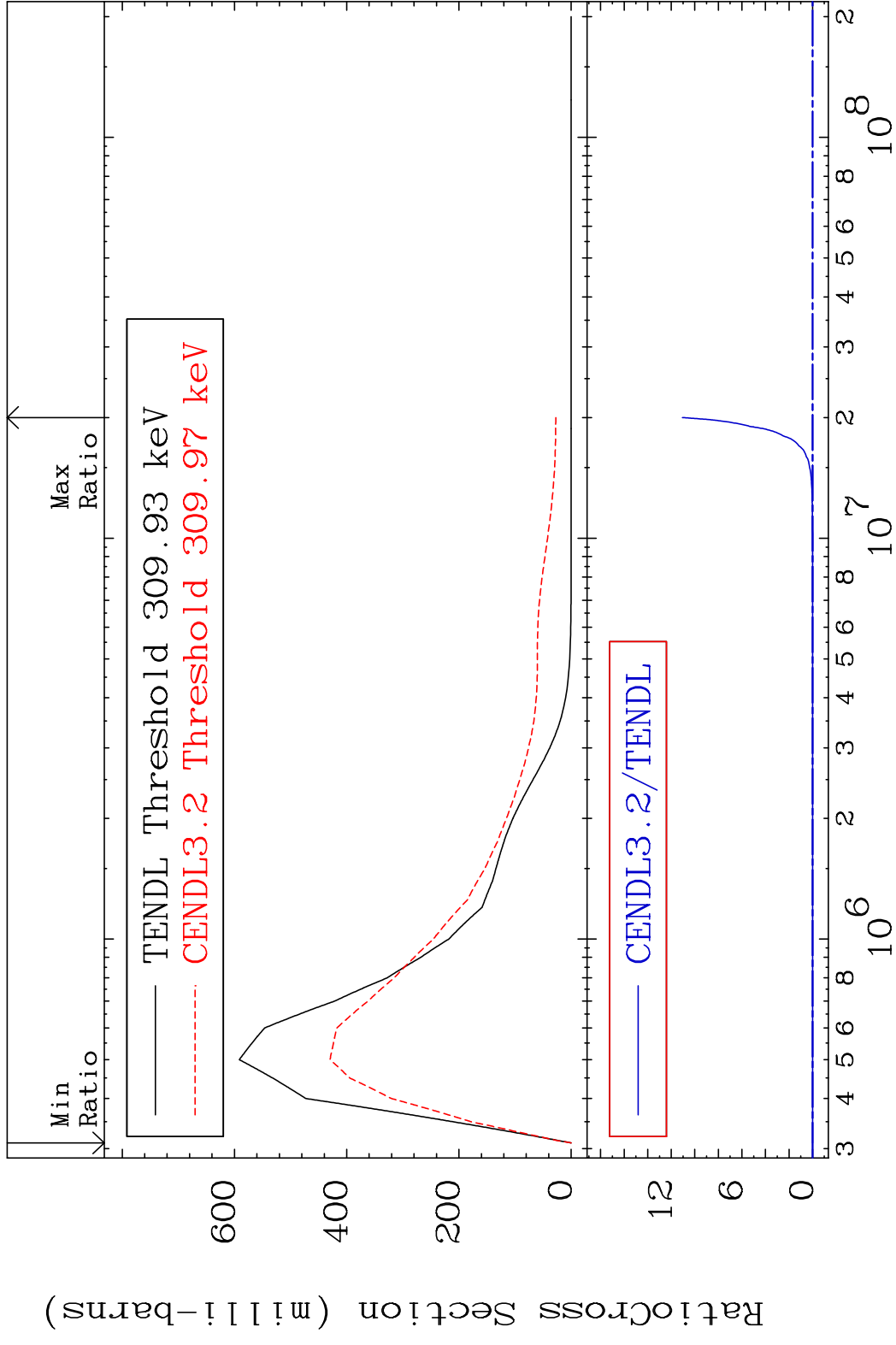
Incident Energy (eV)

44-Ru-101

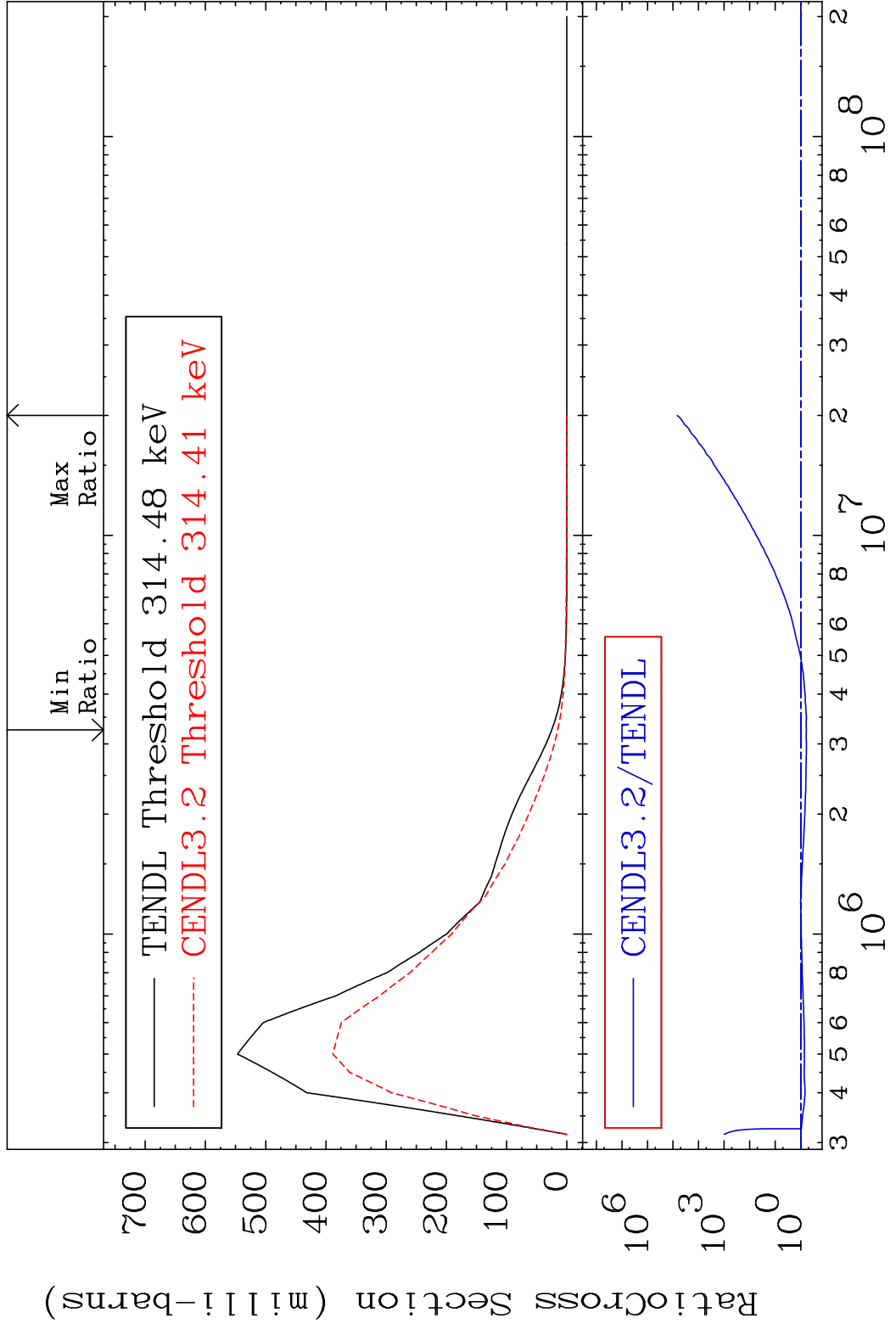
MAT 4440 MT= 51 (n, n') Level 44-Ru-101
 Cross Section -35.89 To 9999. %



MAT 4440 MT= 52 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 9999. %

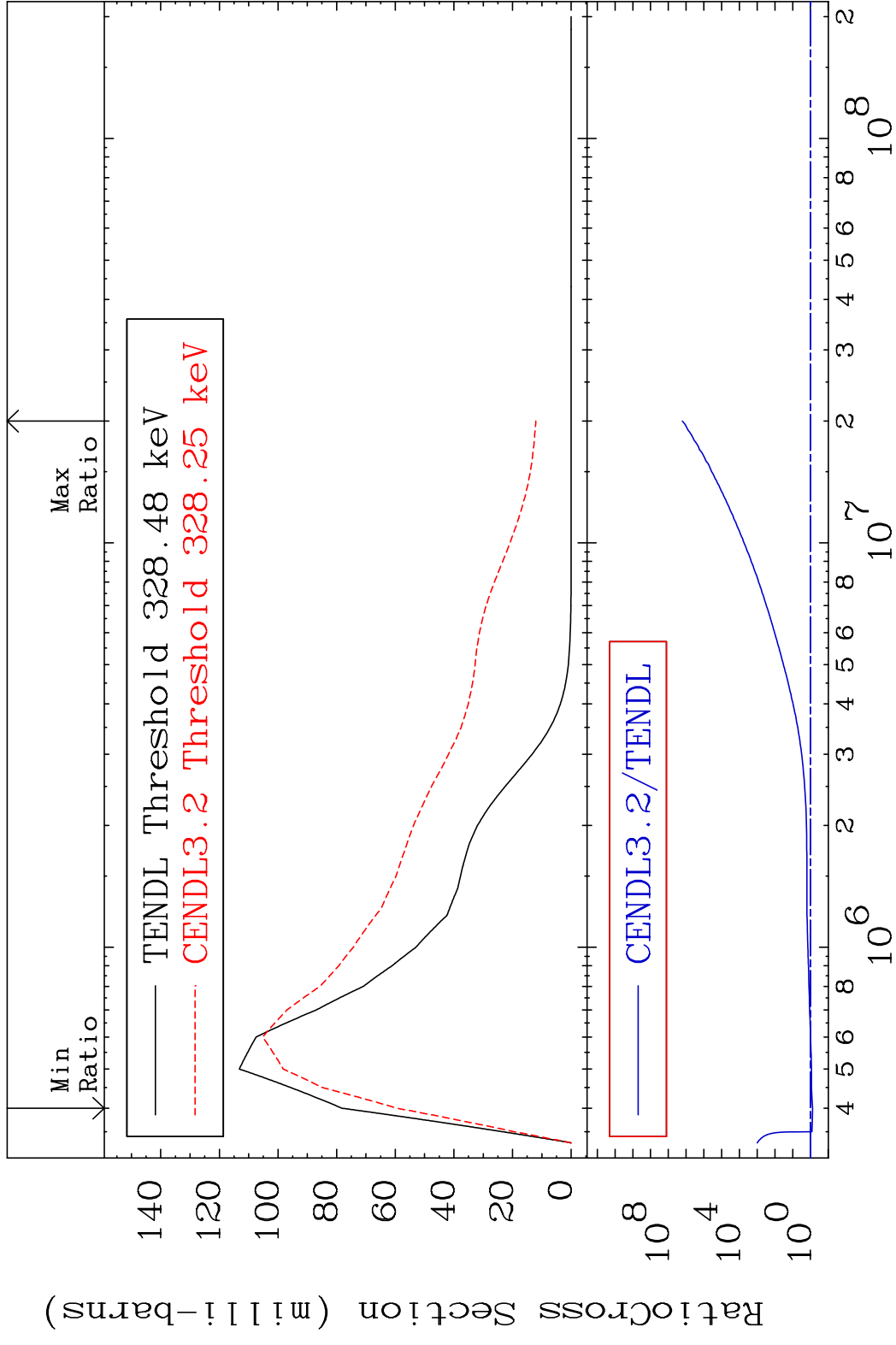


MAT 4440 MT= 53 (n, n') Level 44-Ru-101
 Cross Section -40.07 To 9999. %

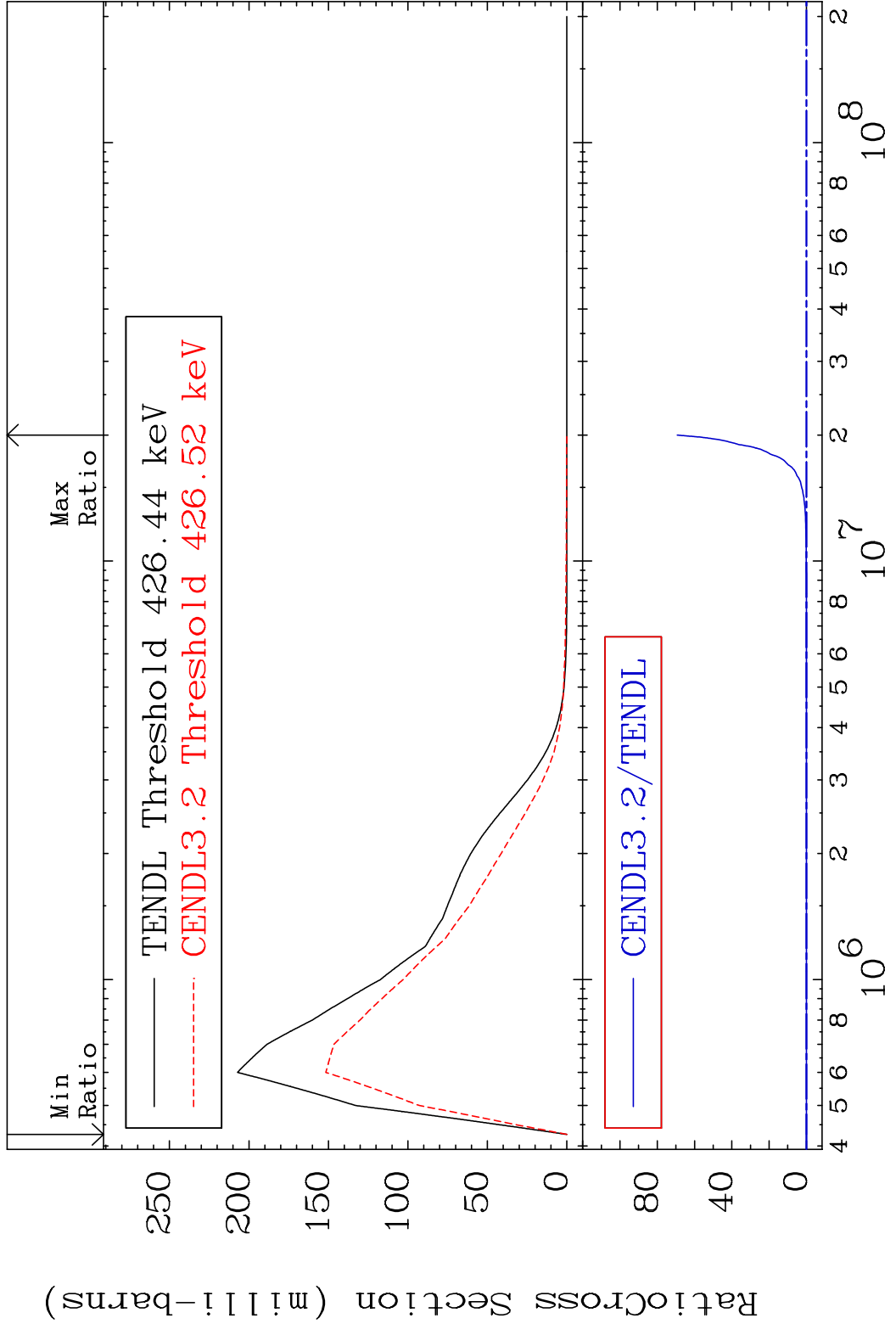


10 4 5 6 8 10⁶ 2 3 4 5 6 8 10⁷ 2 3 4 5 6 8 10⁸ 2 44-Ru-101

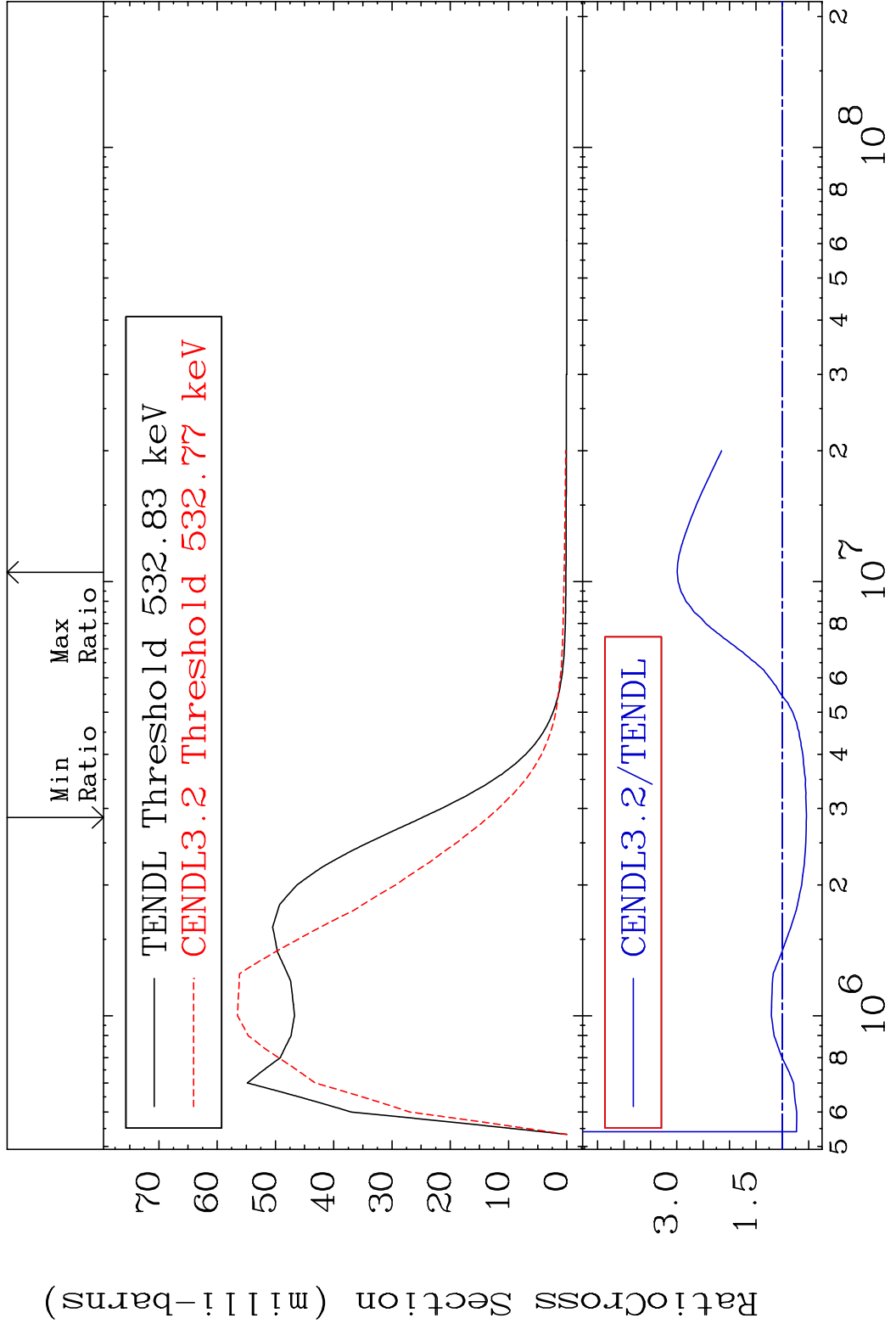
MAT 4440 MT= 54 (n, n') Level 44-Ru-101
 Cross Section -24.04 To 9999. %



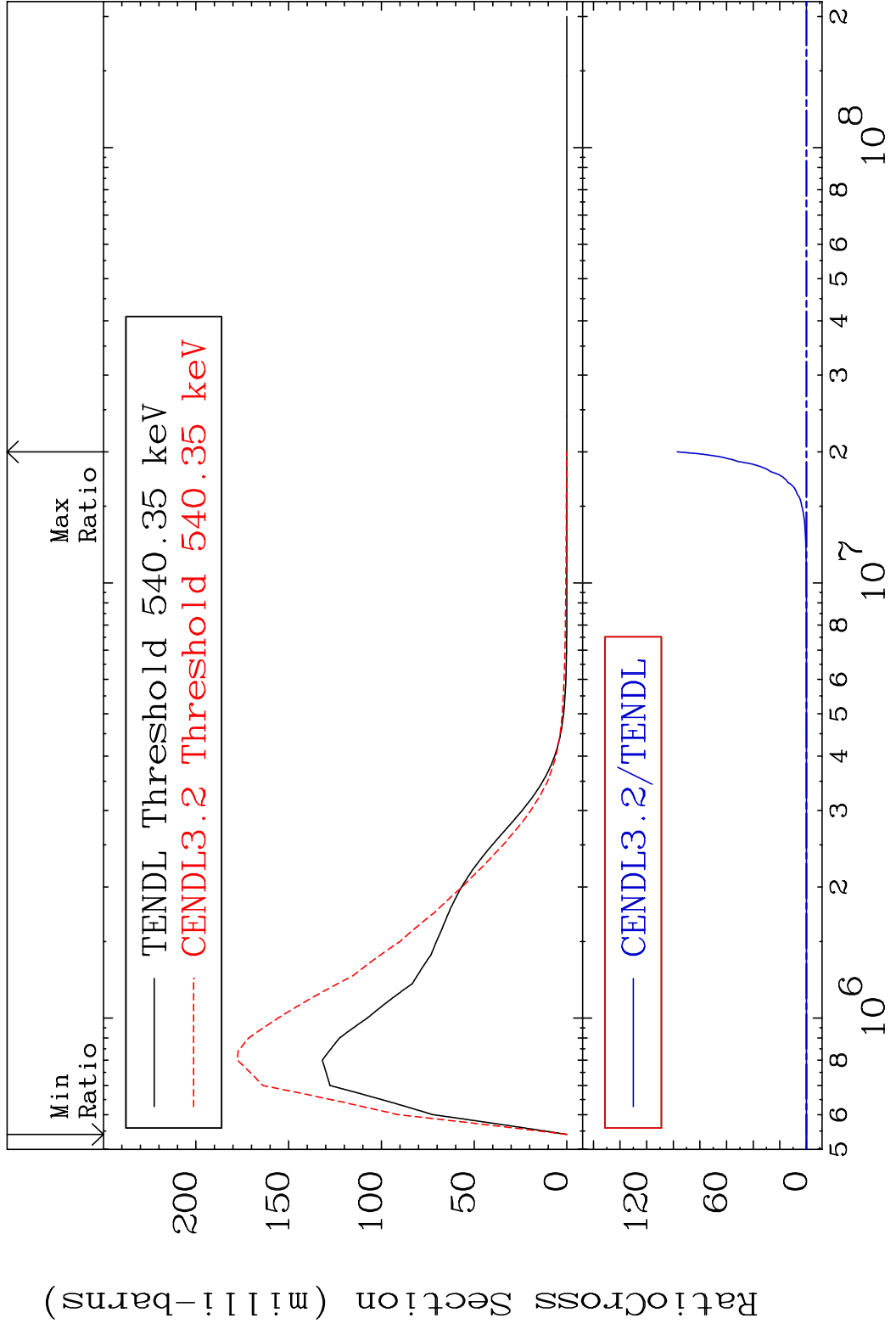
MAT 4440 MT= 55 (n,n') Level 44-Ru-101
 Cross Section -100.0 To 9999. %



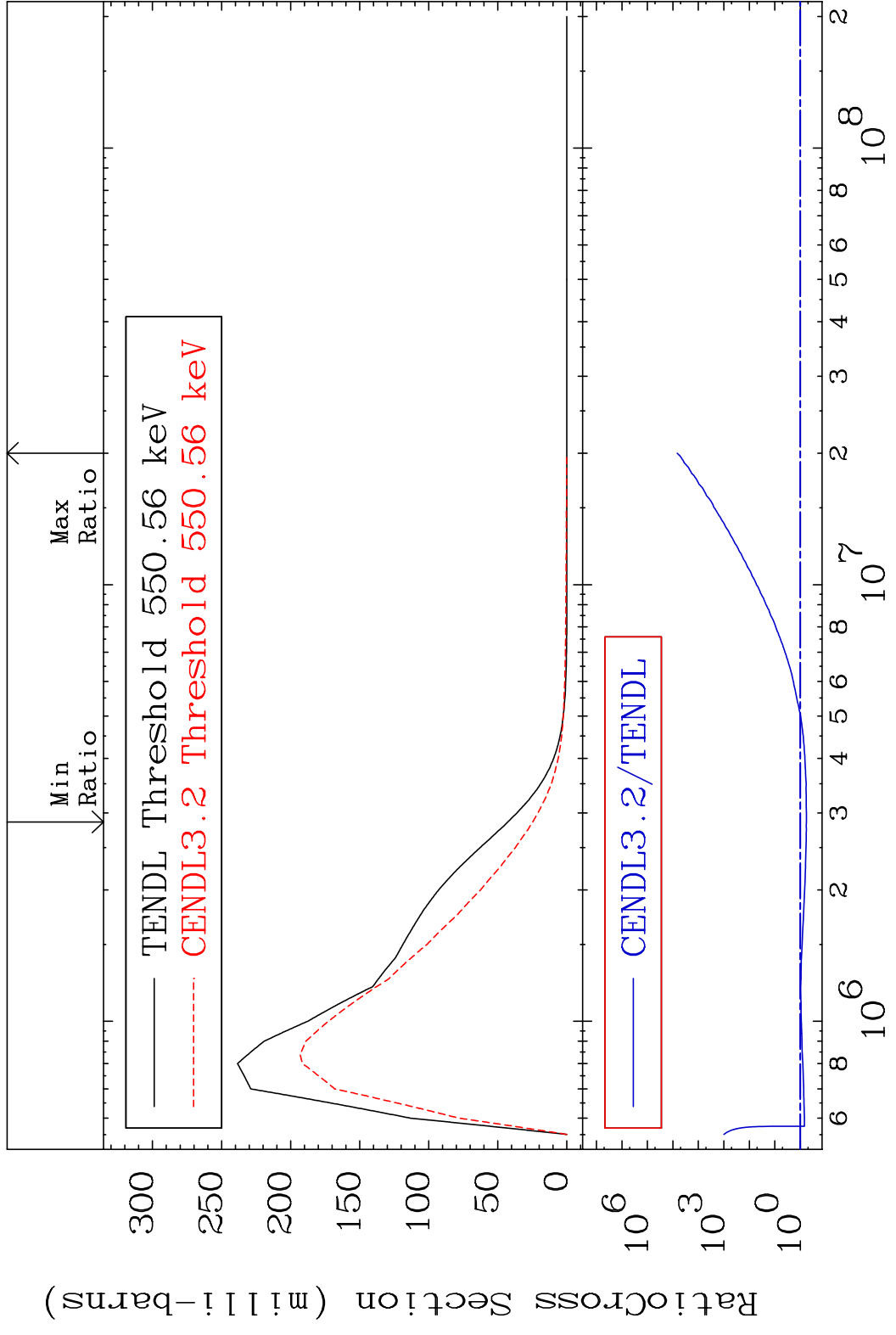
MAT 4440 MT= 56 (n, n') Level 44-Ru-101
 Cross Section -45.66 To 199.3 %



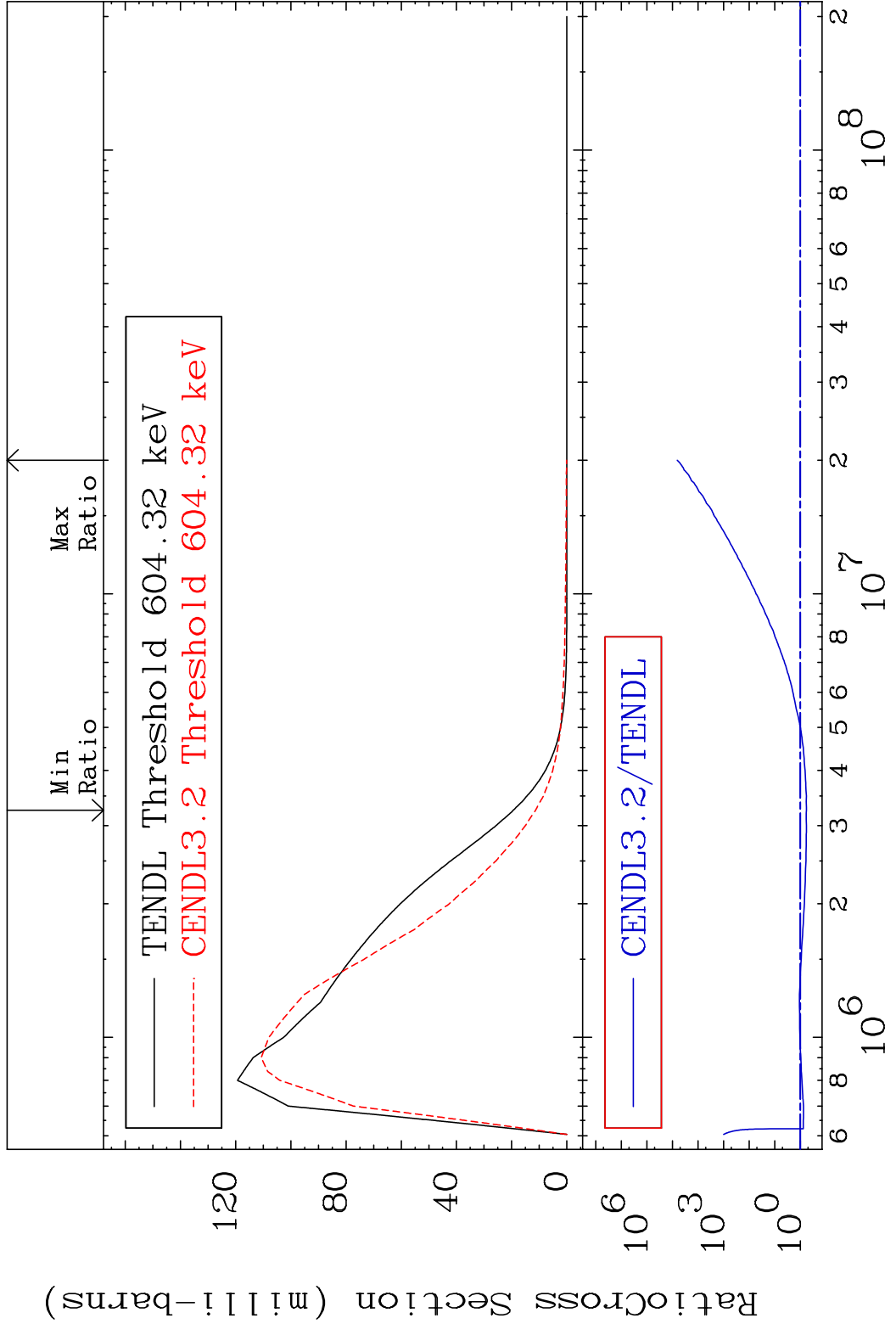
MAT 4440 MT= 57 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 9999. %



MAT 4440 MT= 58 (n, n') Level 44-Ru-101
 Cross Section -42.22 To 9999. %

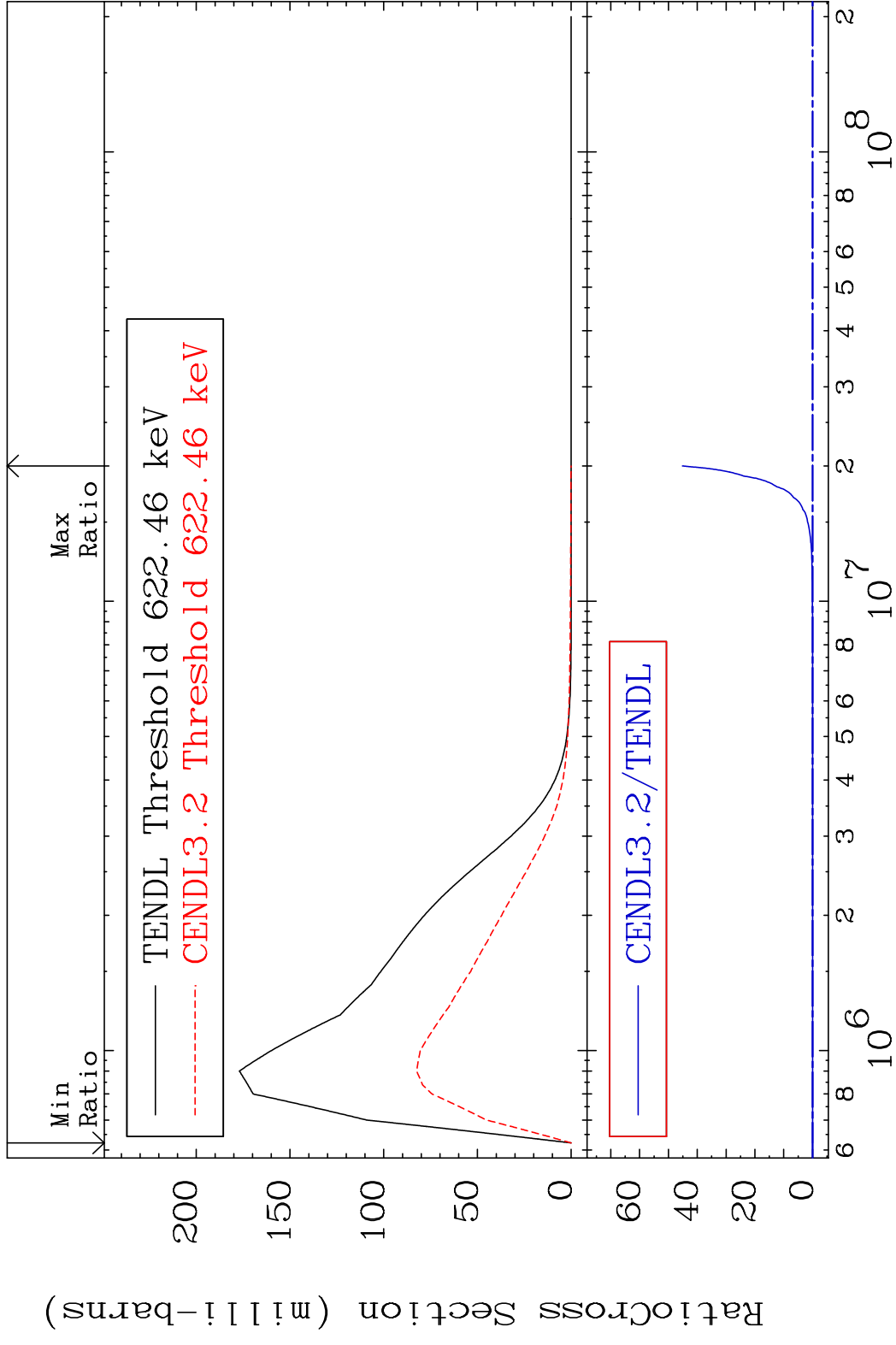


MAT 4440 MT= 59 (n, n') Level 44-Ru-101
 Cross Section -41.52 To 9999. %

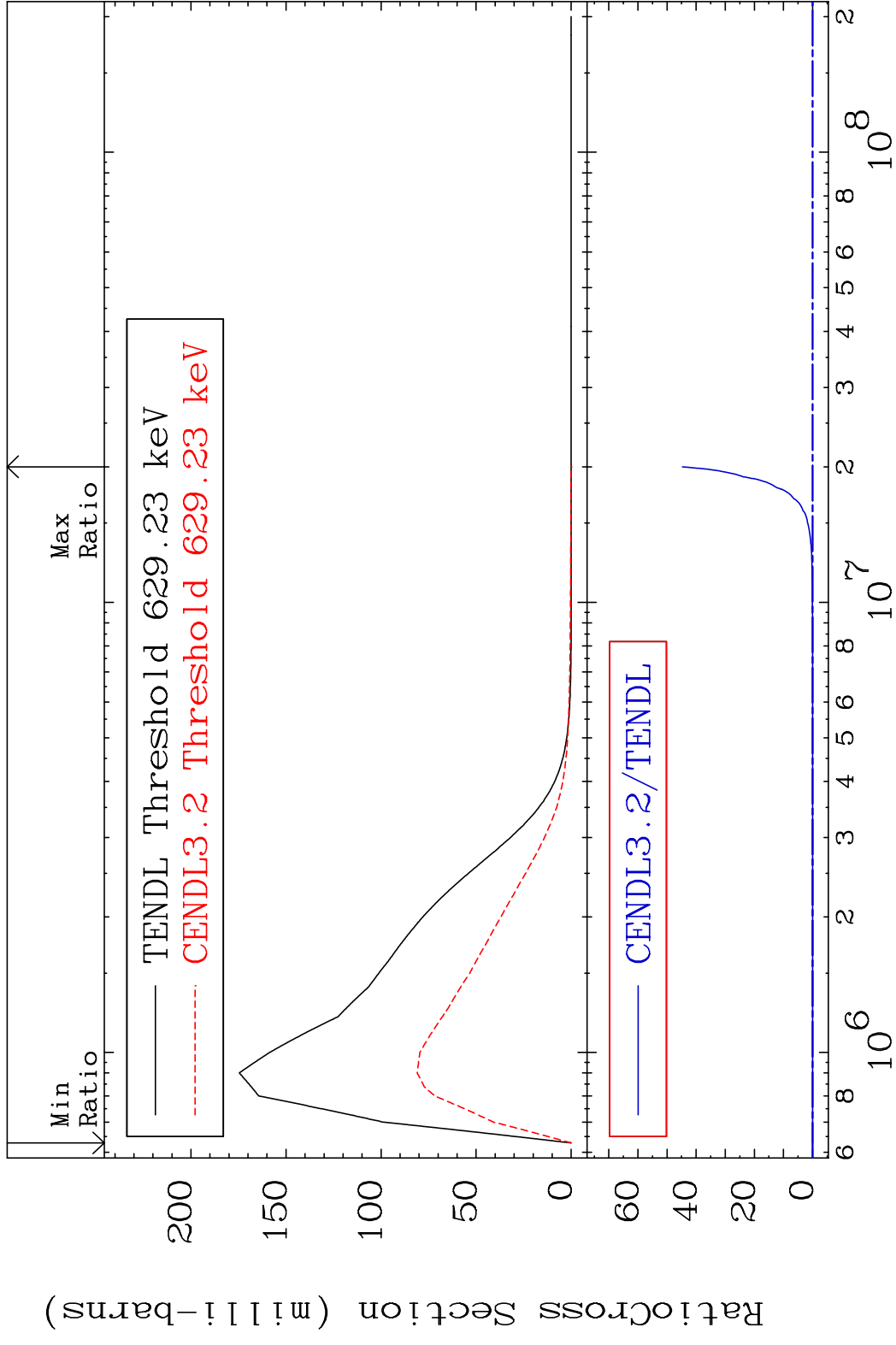


16 Incident Energy (eV) 44-Ru-101

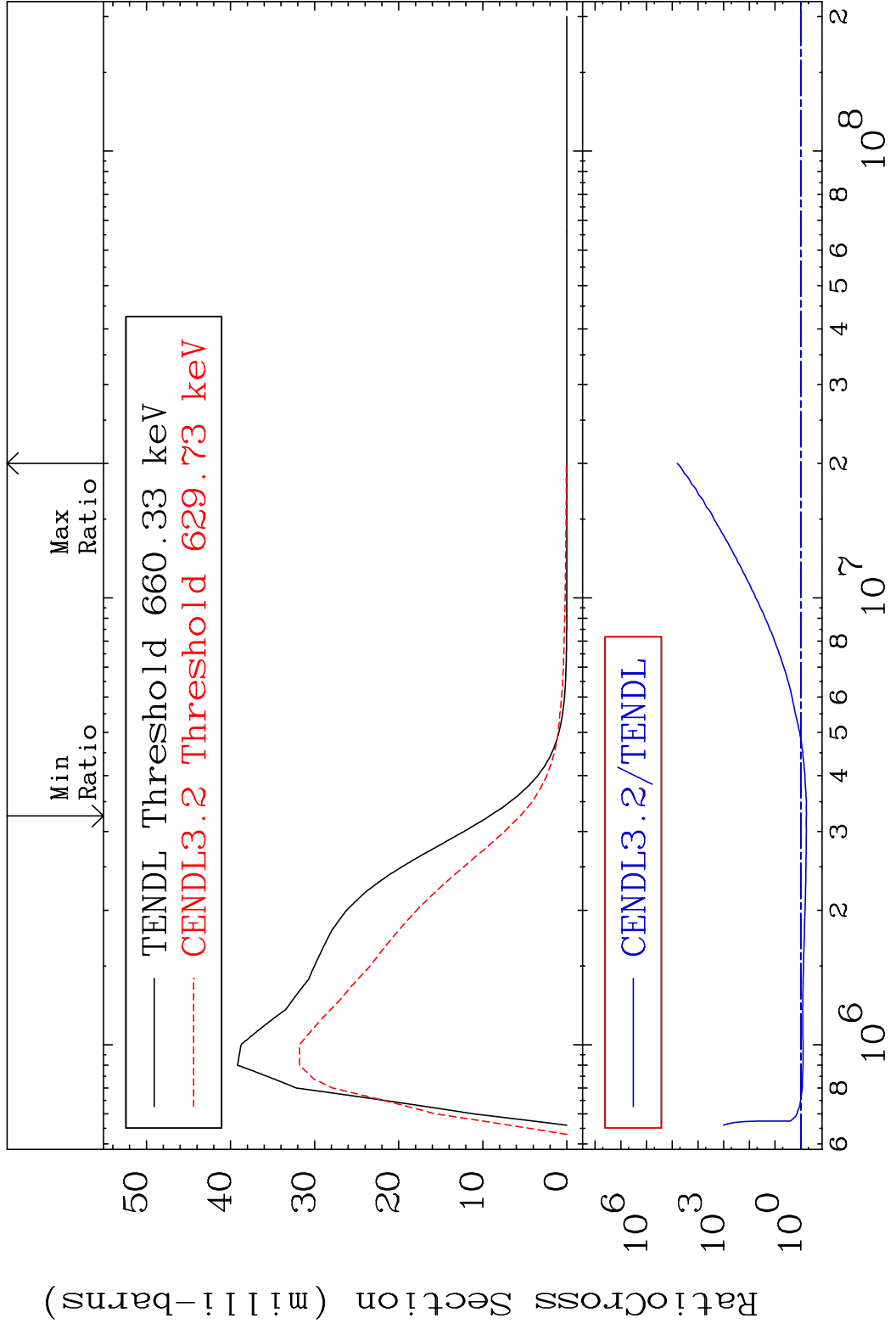
MAT 4440 MT= 60 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 9999. %



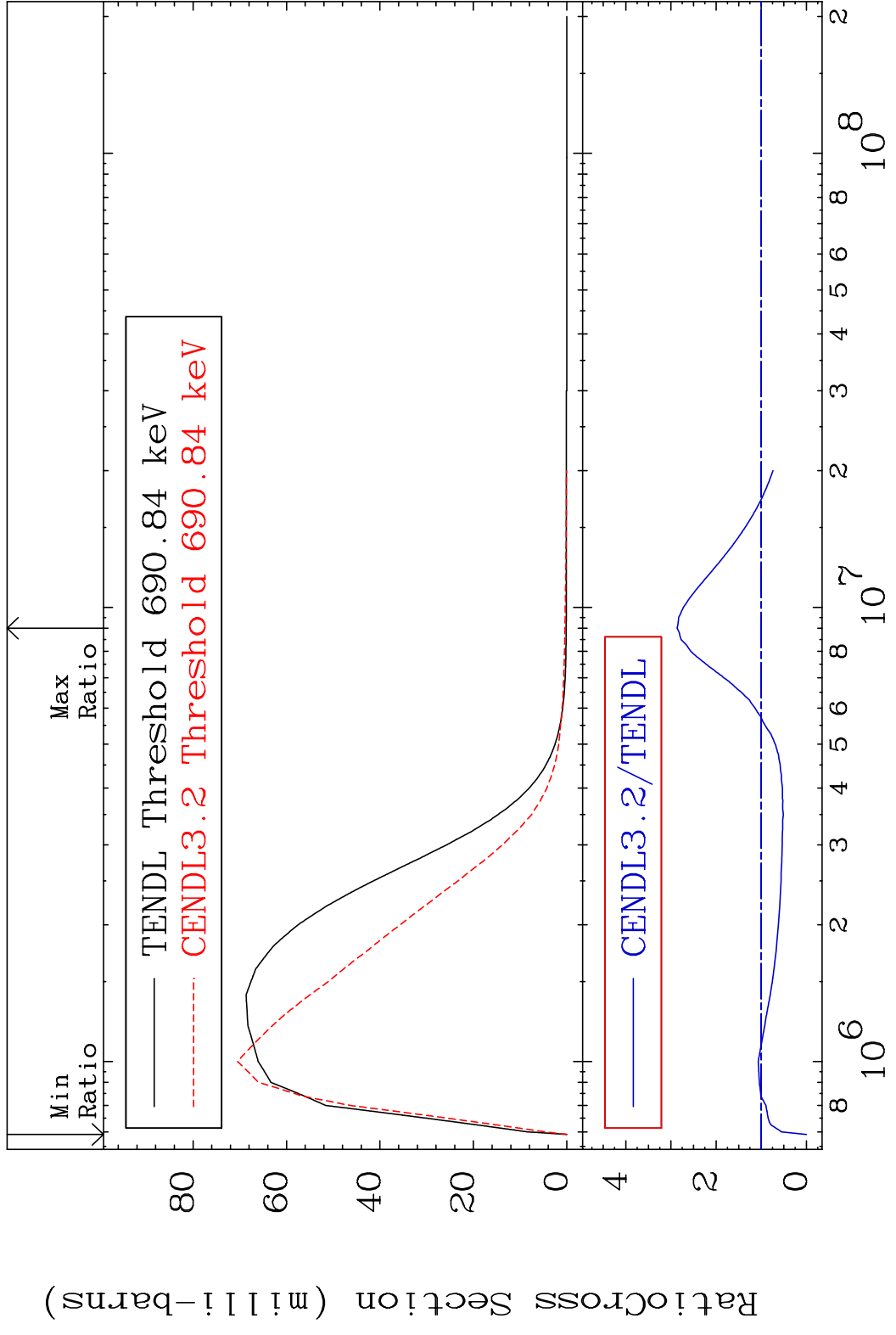
MAT 4440 MT= 61 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 9999. %



MAT 4440 MT= 62 (n, n') Level 44-Ru-101
 Cross Section -39.68 To 9999. %

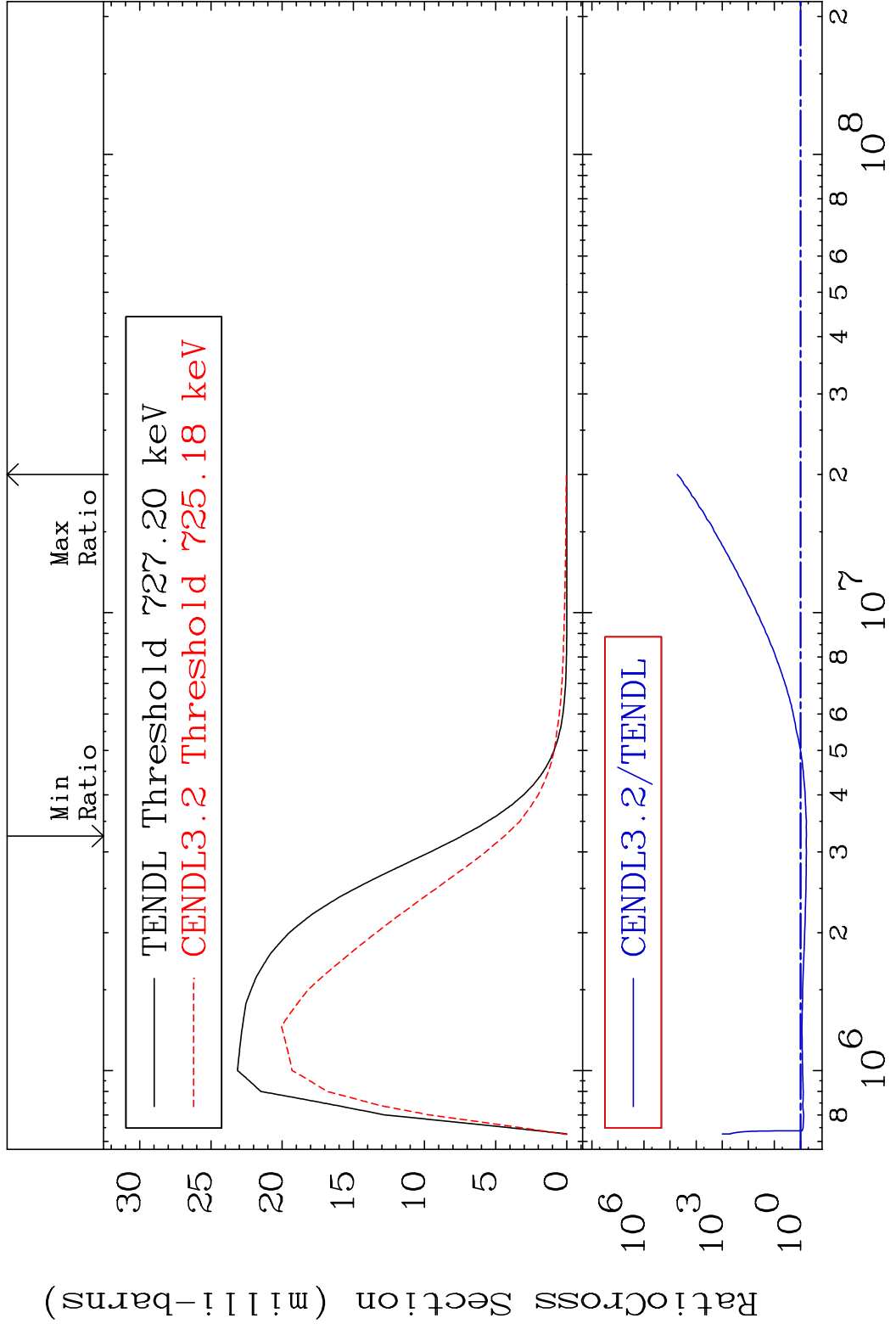


MAT 4440 MT= 63 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 186.3 %

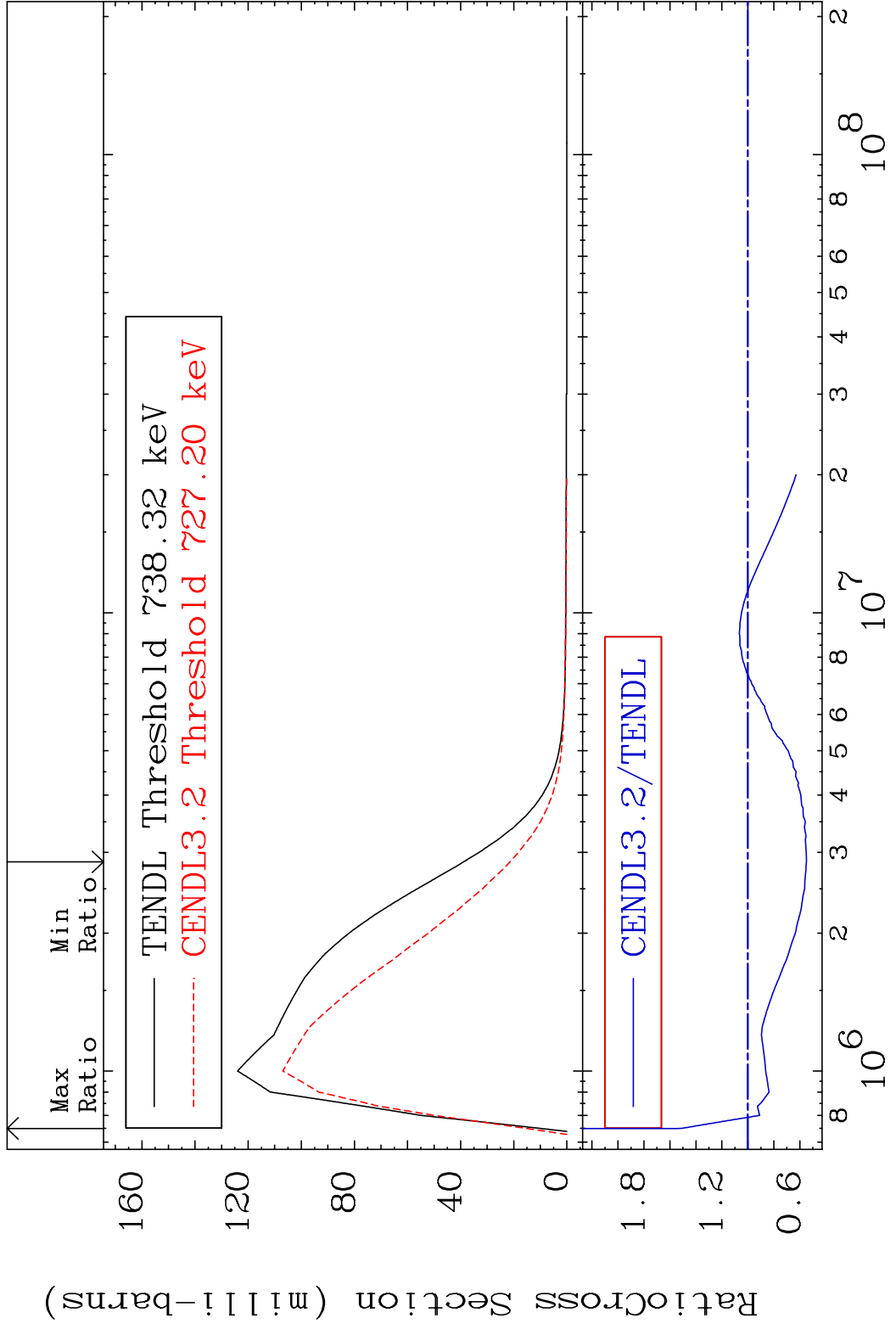


20 Incident Energy (eV) 44-Ru-101

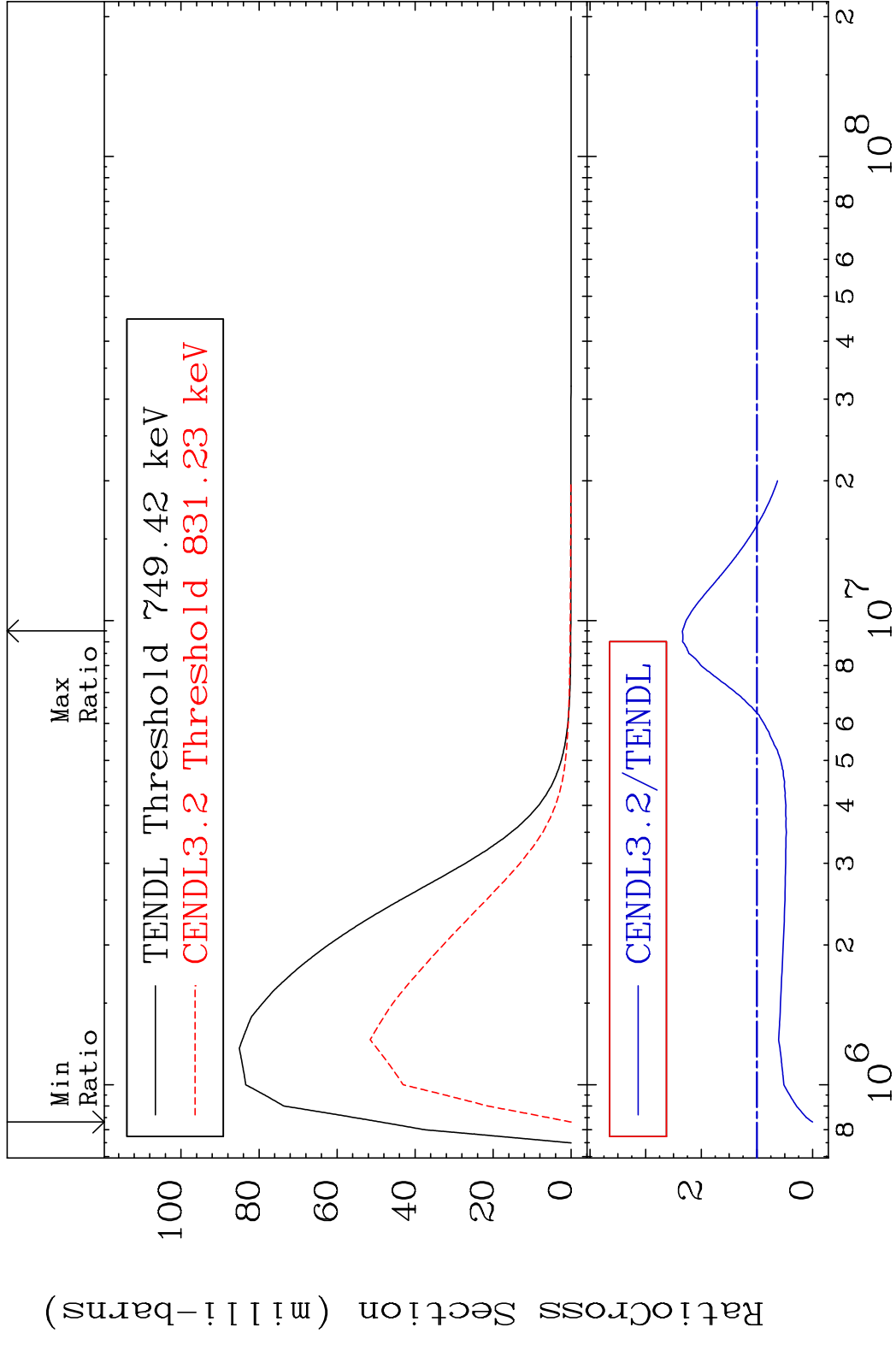
MAT 4440 MT= 64 (n, n') Level 44-Ru-101
 Cross Section -40.80 To 9999. %



MAT 4440 MT= 65 (n,n') Level 44-Ru-101
 Cross Section -45.05 To 54.42 %

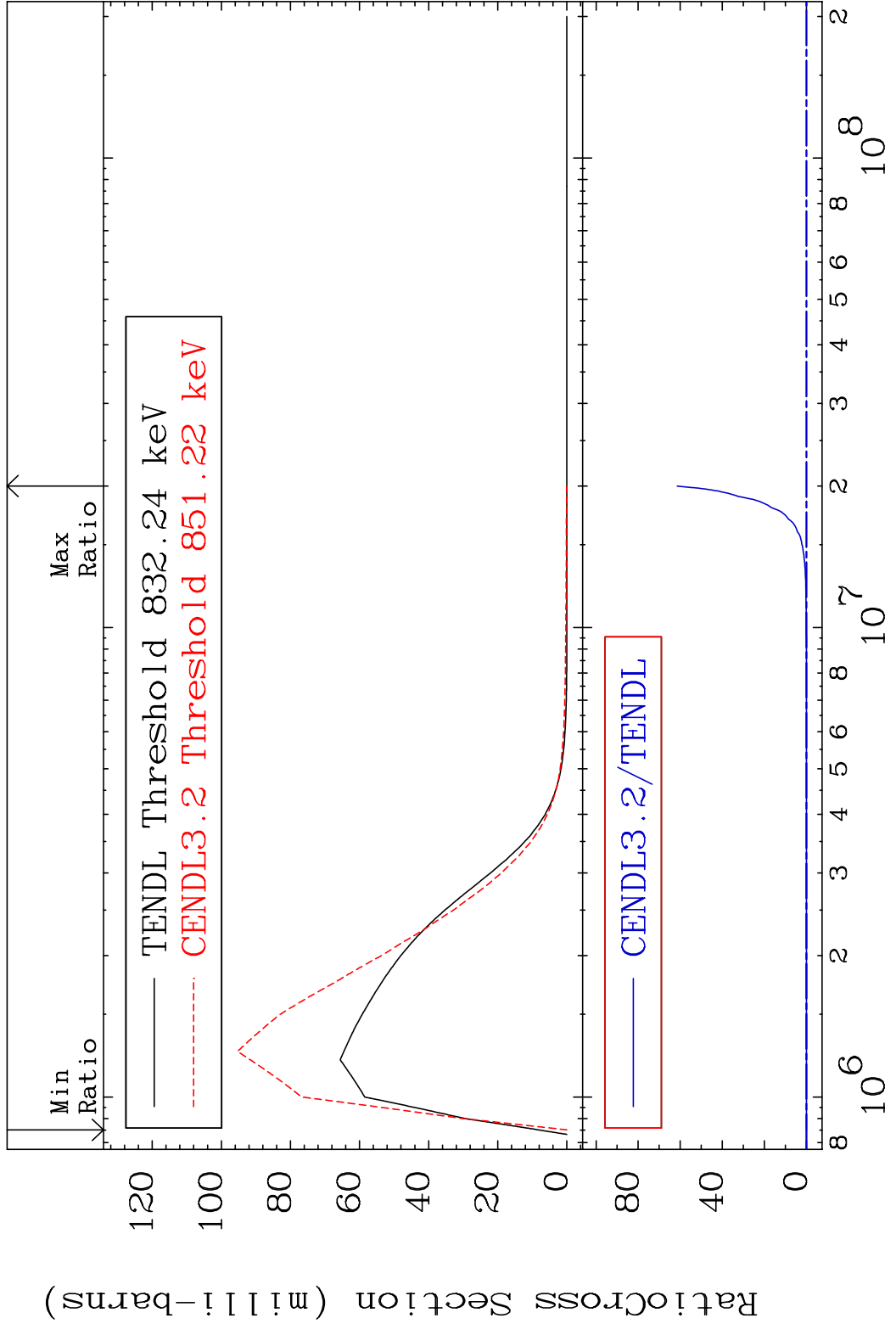


MAT 4440 MT= 66 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 134.1 %



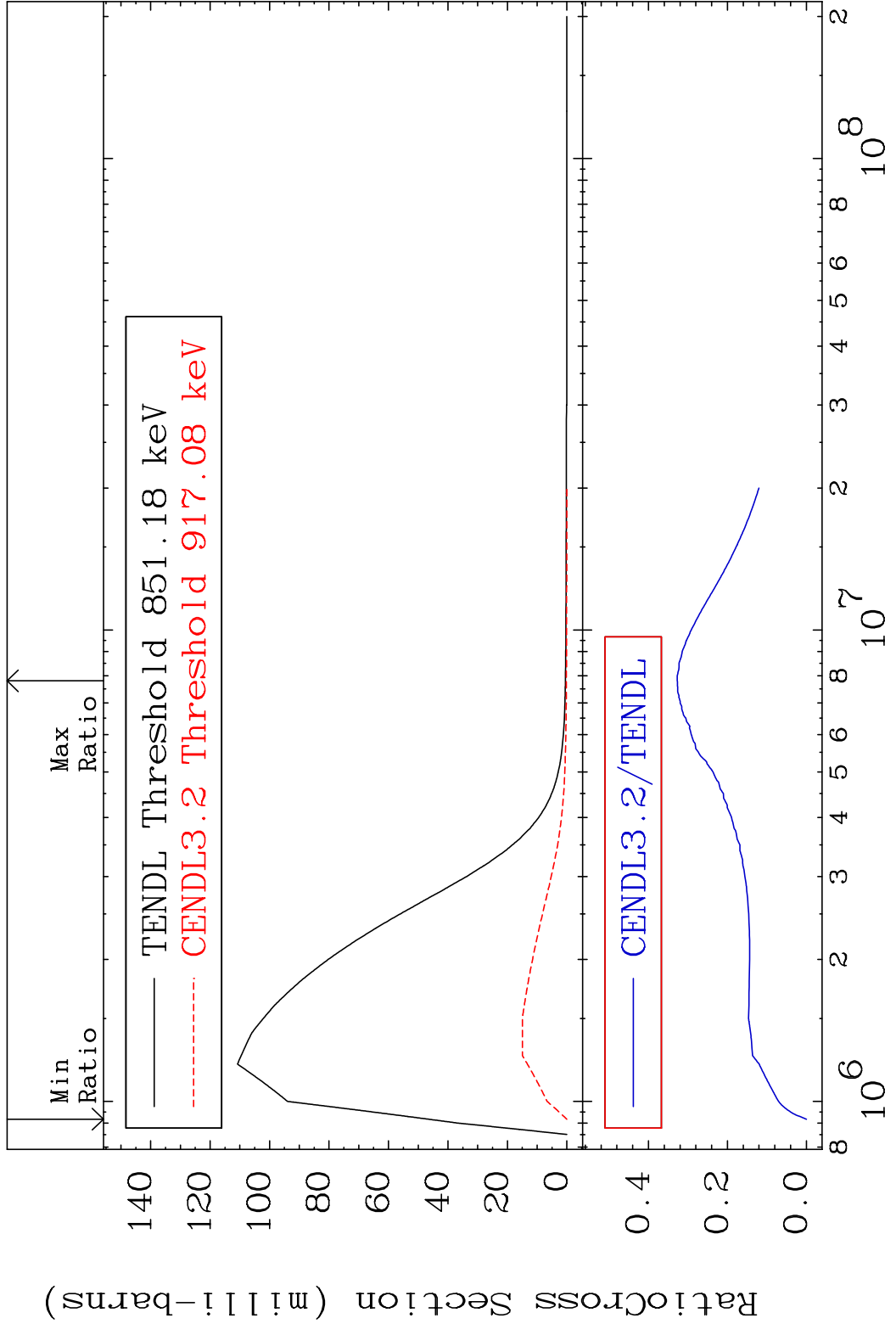
23 Incident Energy (eV) 44-Ru-101

MAT 4440 MT= 67 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 9999. %

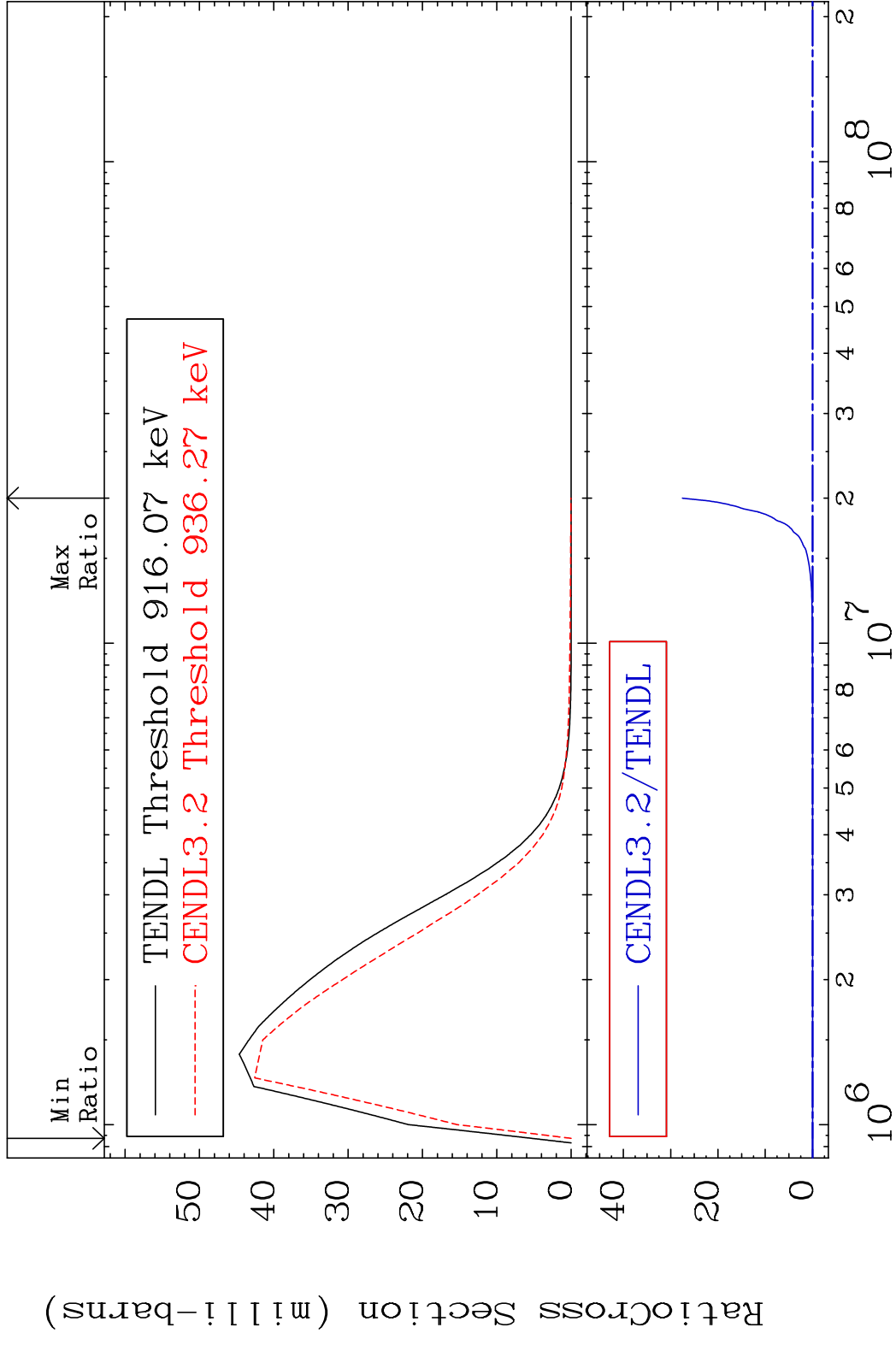


24 Incident Energy (eV) 44-Ru-101

MAT 4440 MT= 68 (n, n') Level 44-Ru-101
 Cross Section -100.0 To -67.27%

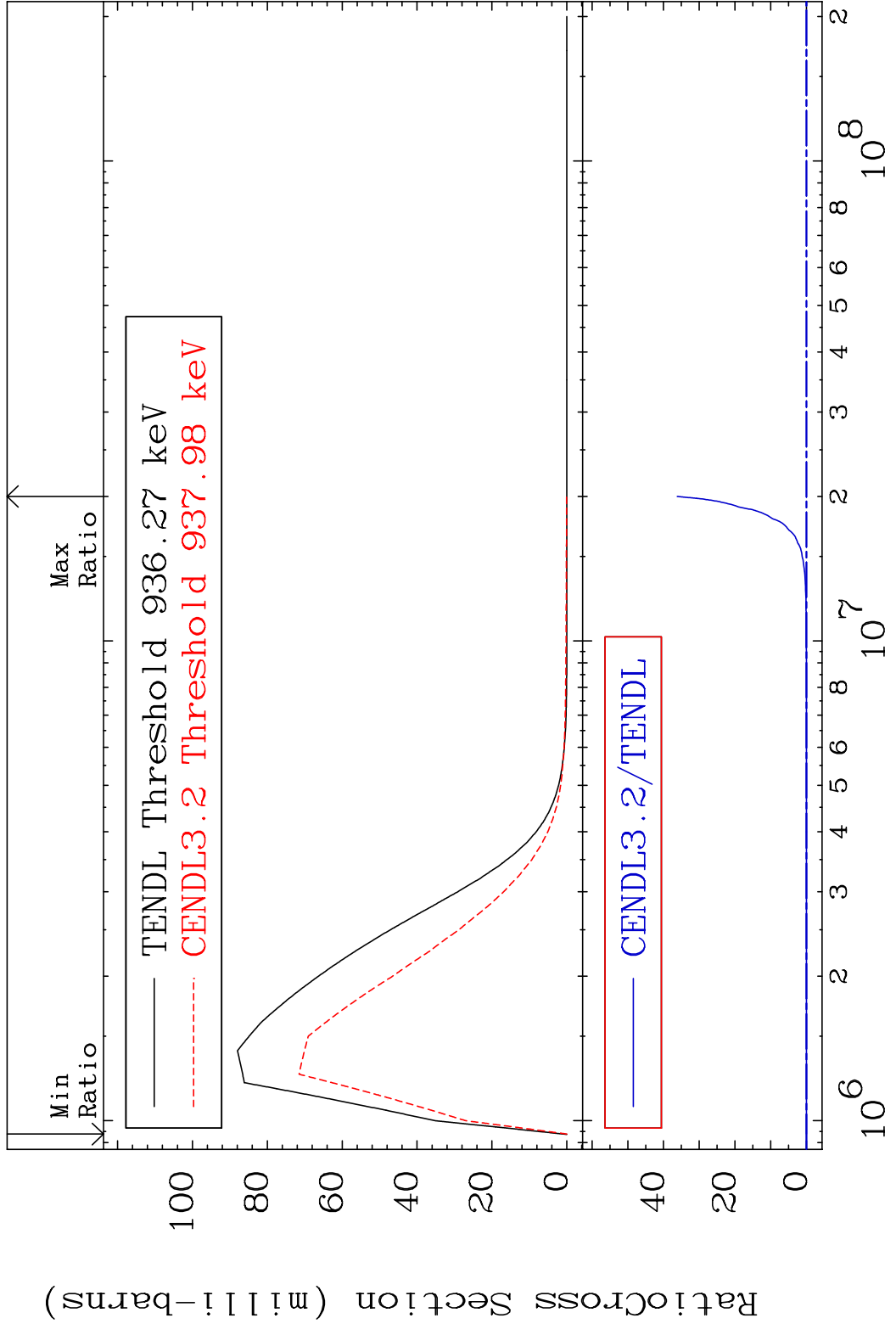


MAT 4440 MT= 69 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 9999. %



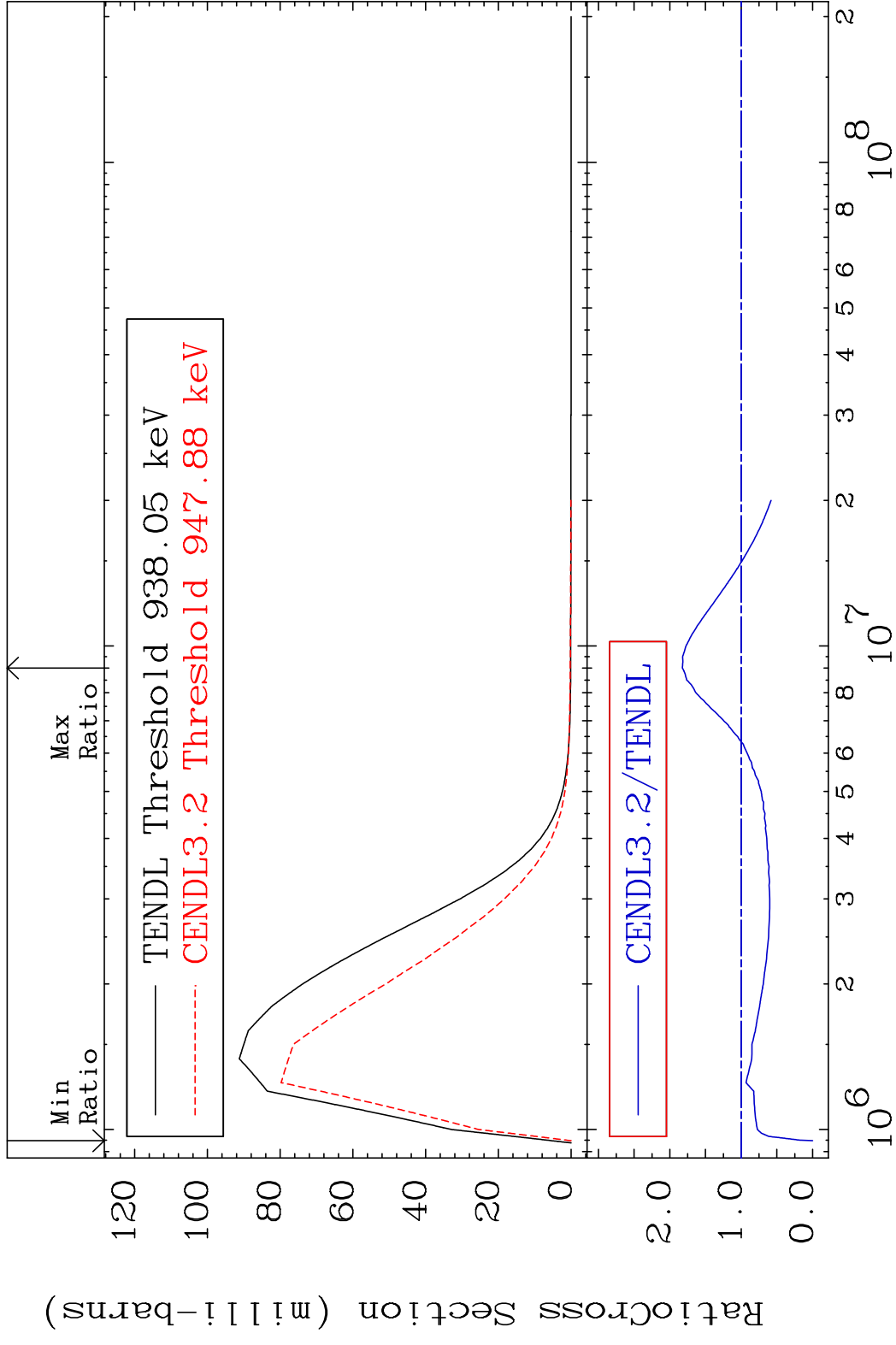
26 Incident Energy (eV) 44-Ru-101

MAT 4440 MT= 70 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 9999. %

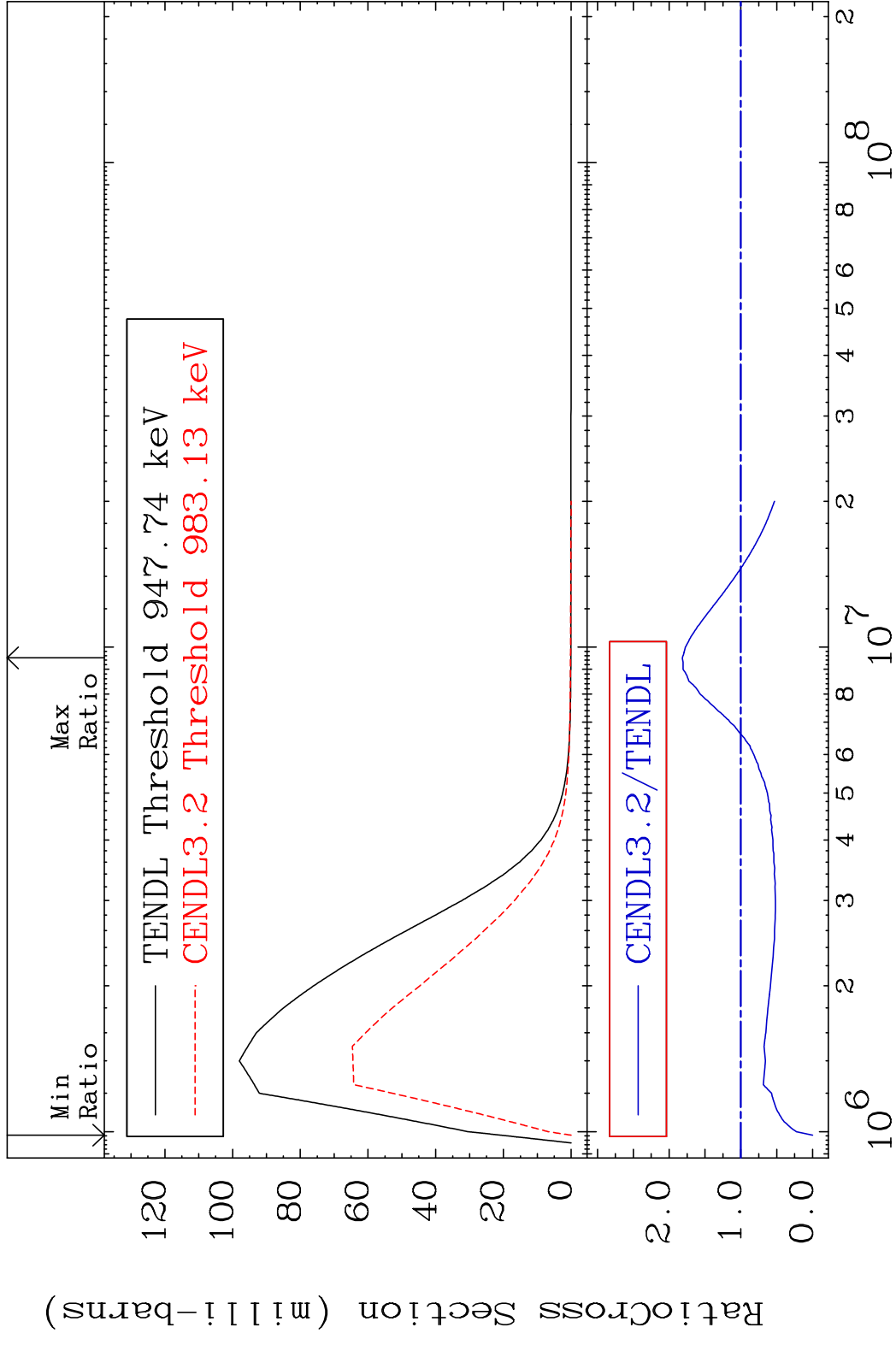


27 Incident Energy (eV) 44-Ru-101

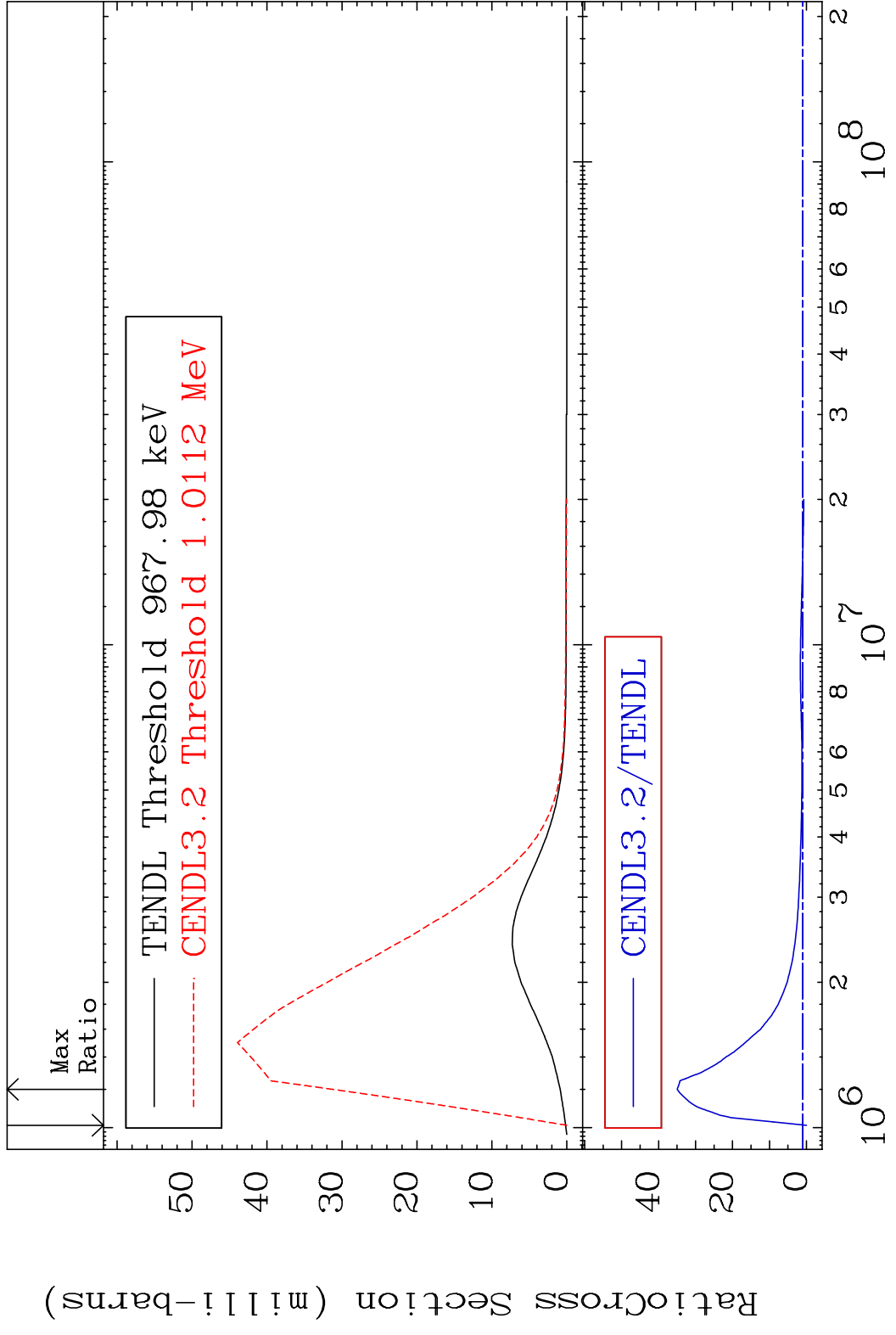
MAT 4440 MT= 71 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 82.41 %



MAT 4440 MT= 72 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 81.59 %

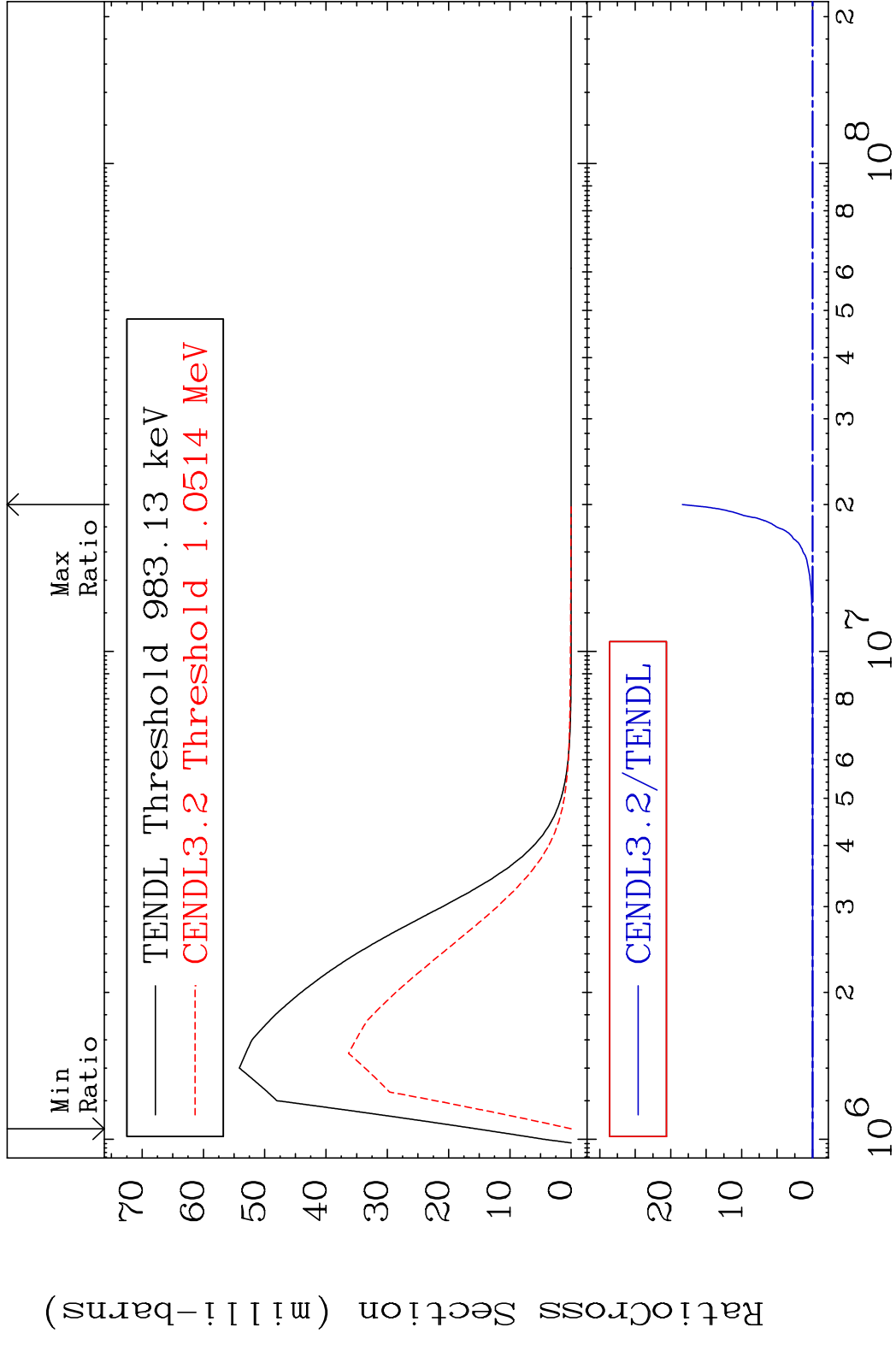


MAT 4440 MT= 73 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 3397. %

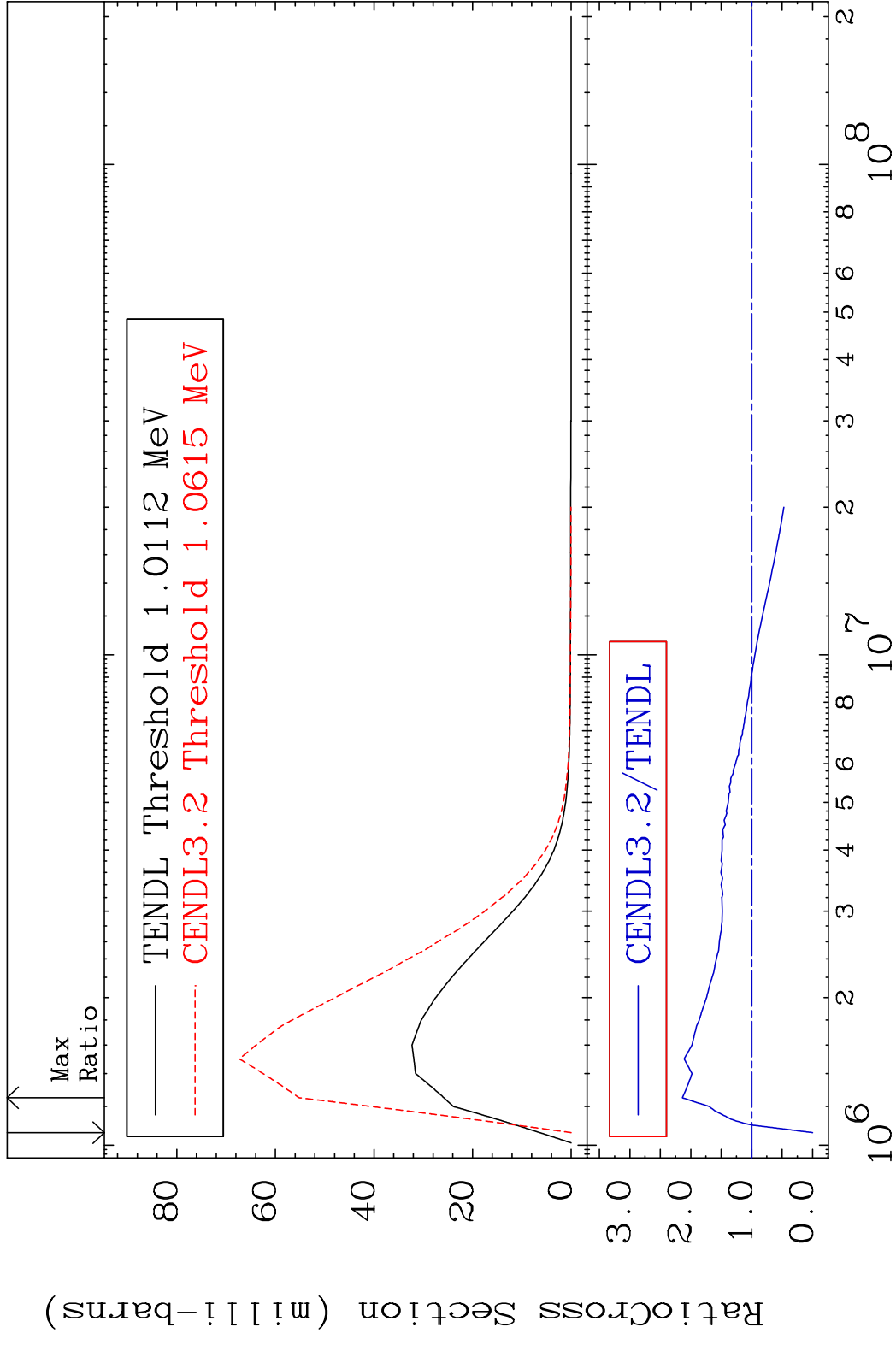


30 44-Ru-101

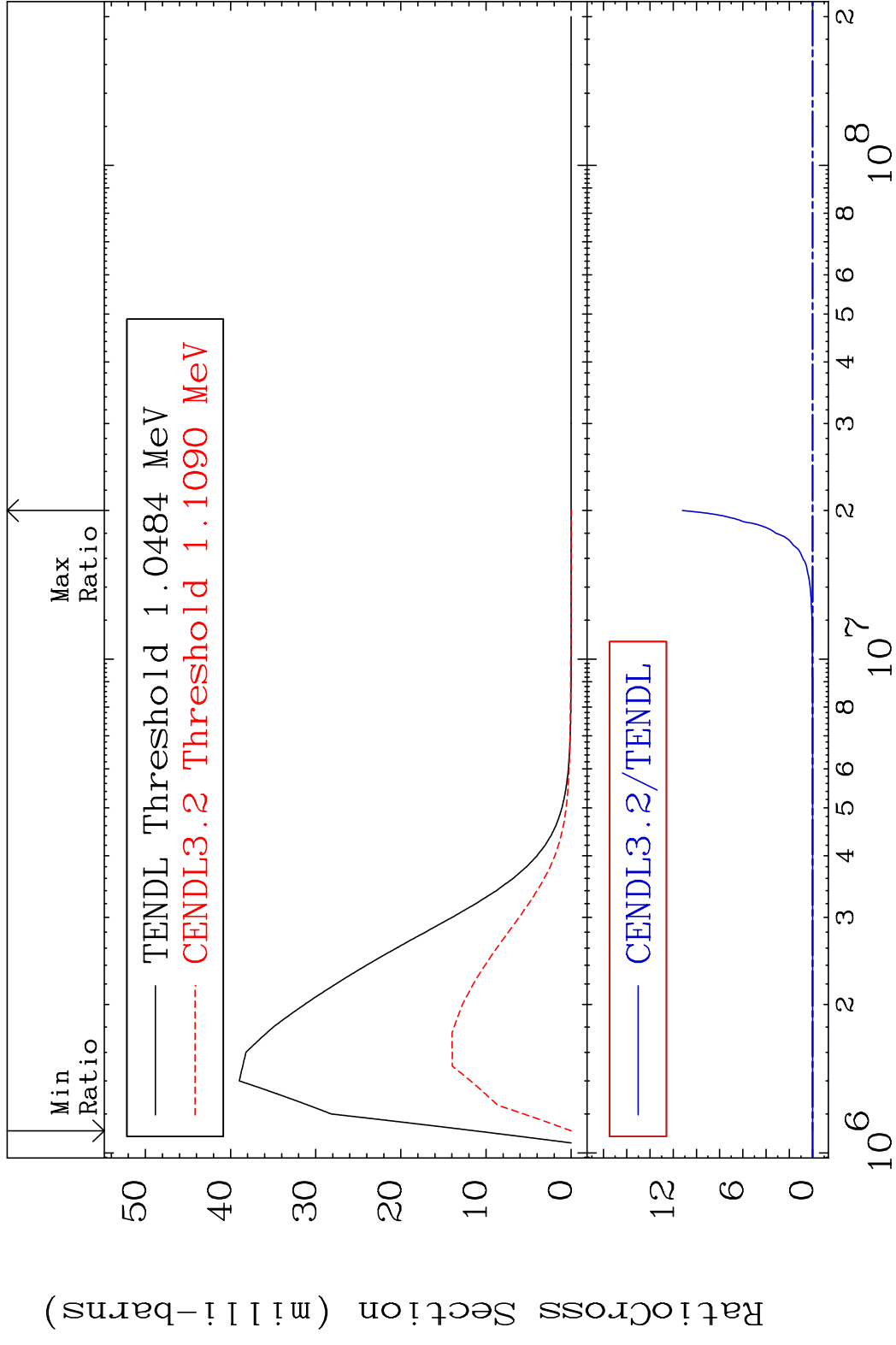
MAT 4440 MT= 74 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 9999. %



MAT 4440 MT= 75 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 113.8 %

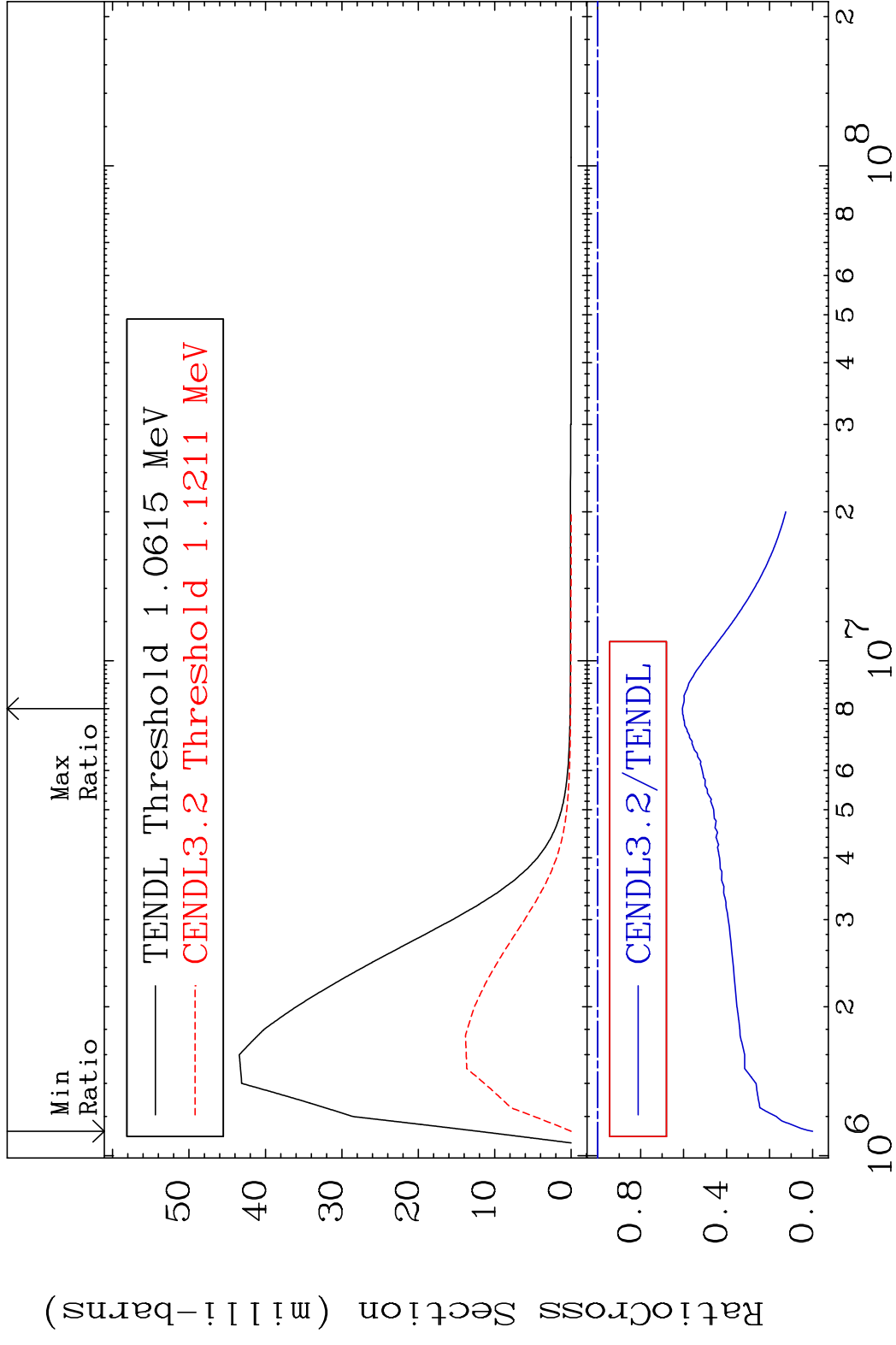


MAT 4440 MT= 76 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 9999. %

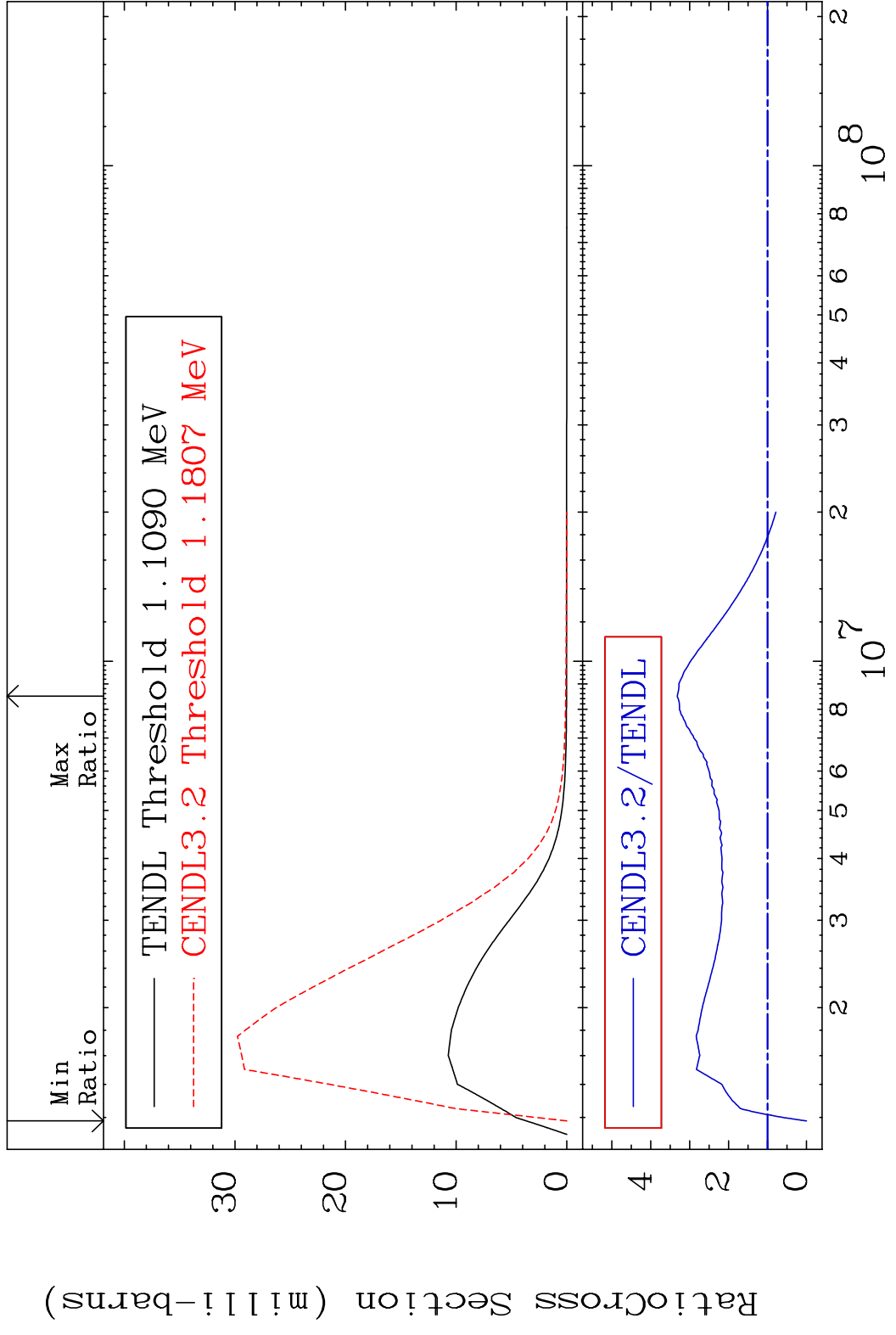


33 Incident Energy (eV) 44-Ru-101

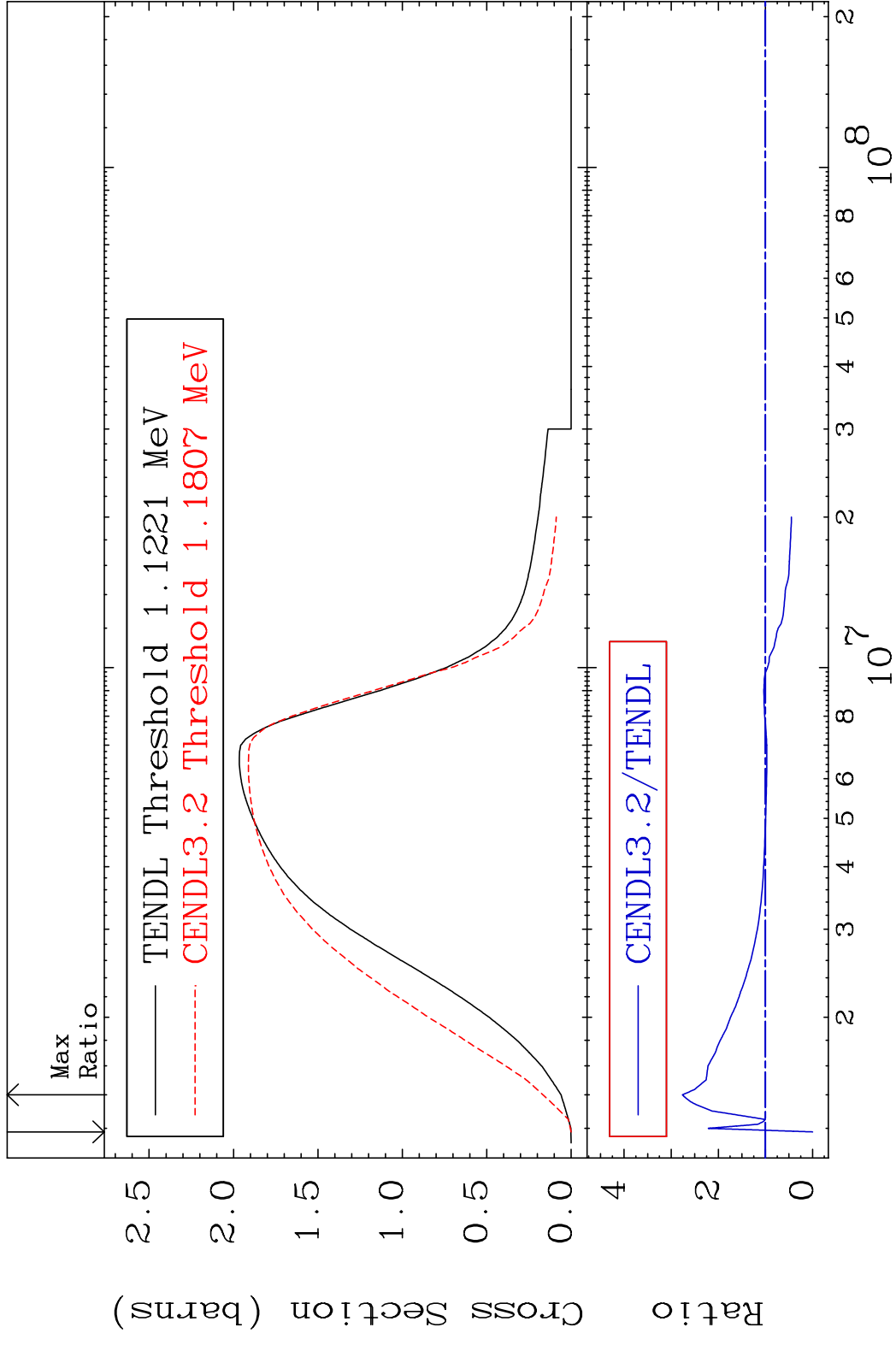
MAT 4440 MT= 77 (n, n') Level 44-Ru-101
 Cross Section -100.0 To -39.42%



MAT 4440 MT= 78 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 232.0 %



MAT 4440 (n, n') Continuum 44-Ru-101
 Cross Section -100.0 To 176.4 %

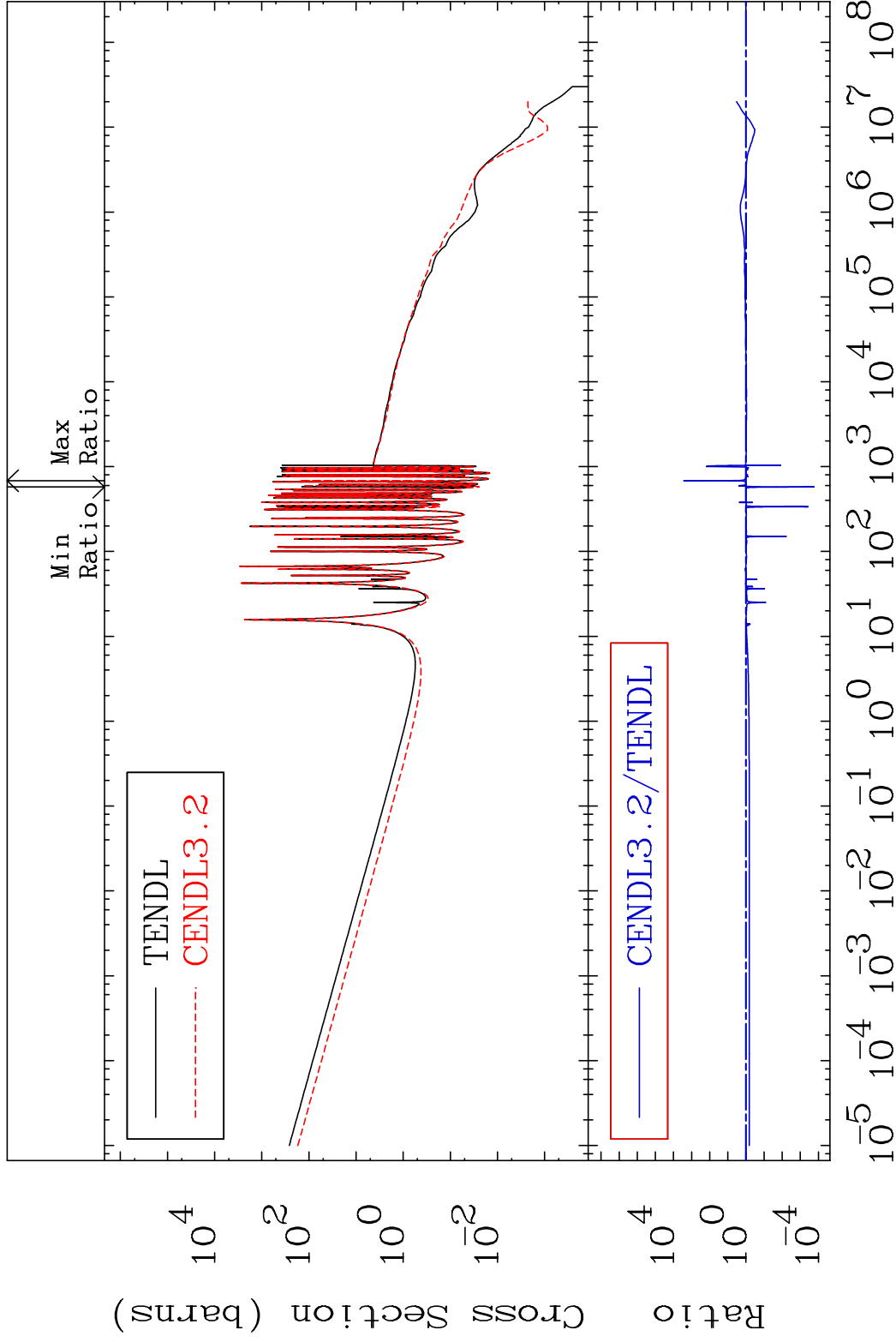


MAT 4440

(n, γ)

44-Ru-101

Cross Section -99.98 To 9999. %



37

Incident Energy (eV)

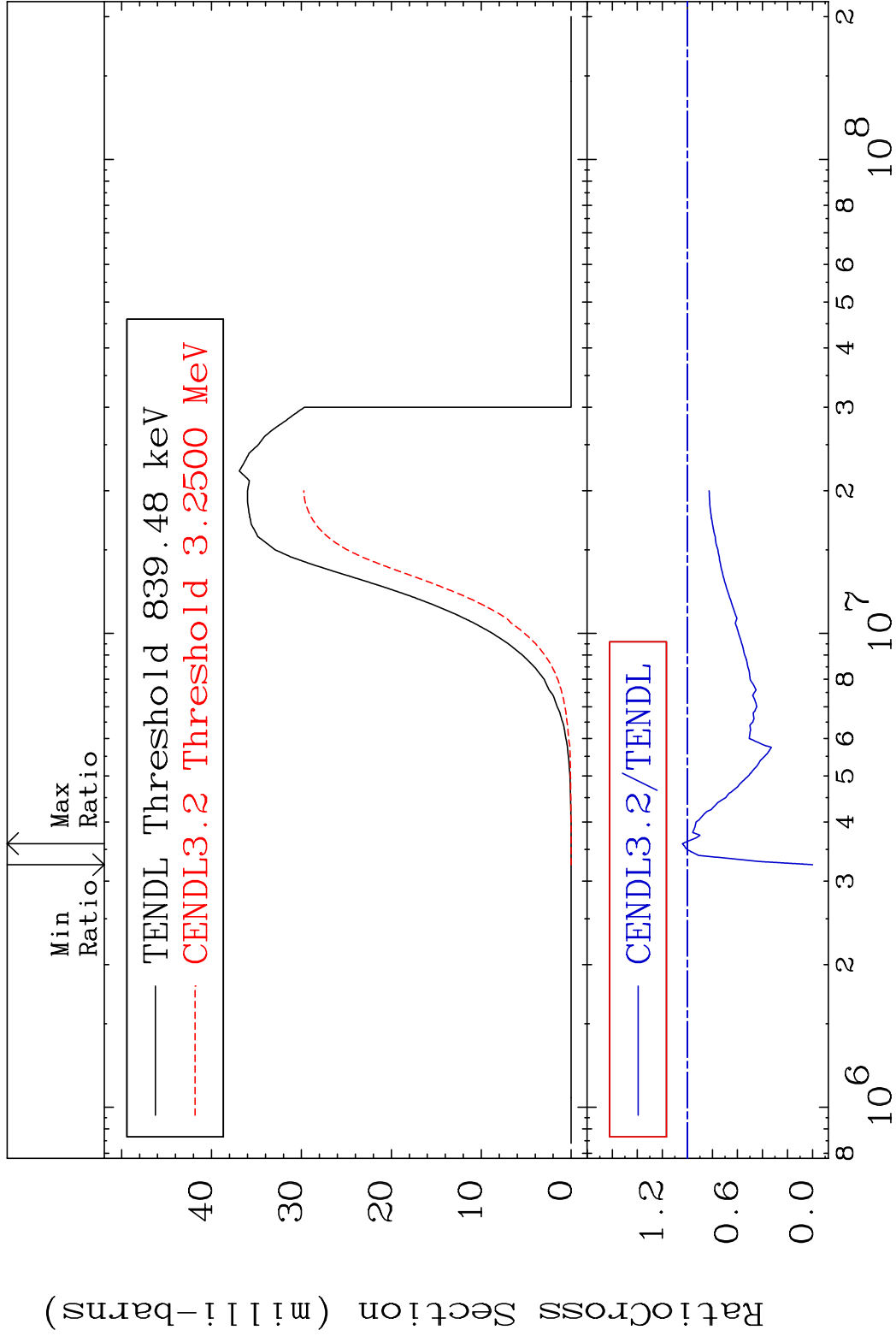
44-Ru-101

MAT 4440

(n, p)

44-Ru-101

Cross Section -100.0 To 4.027 %

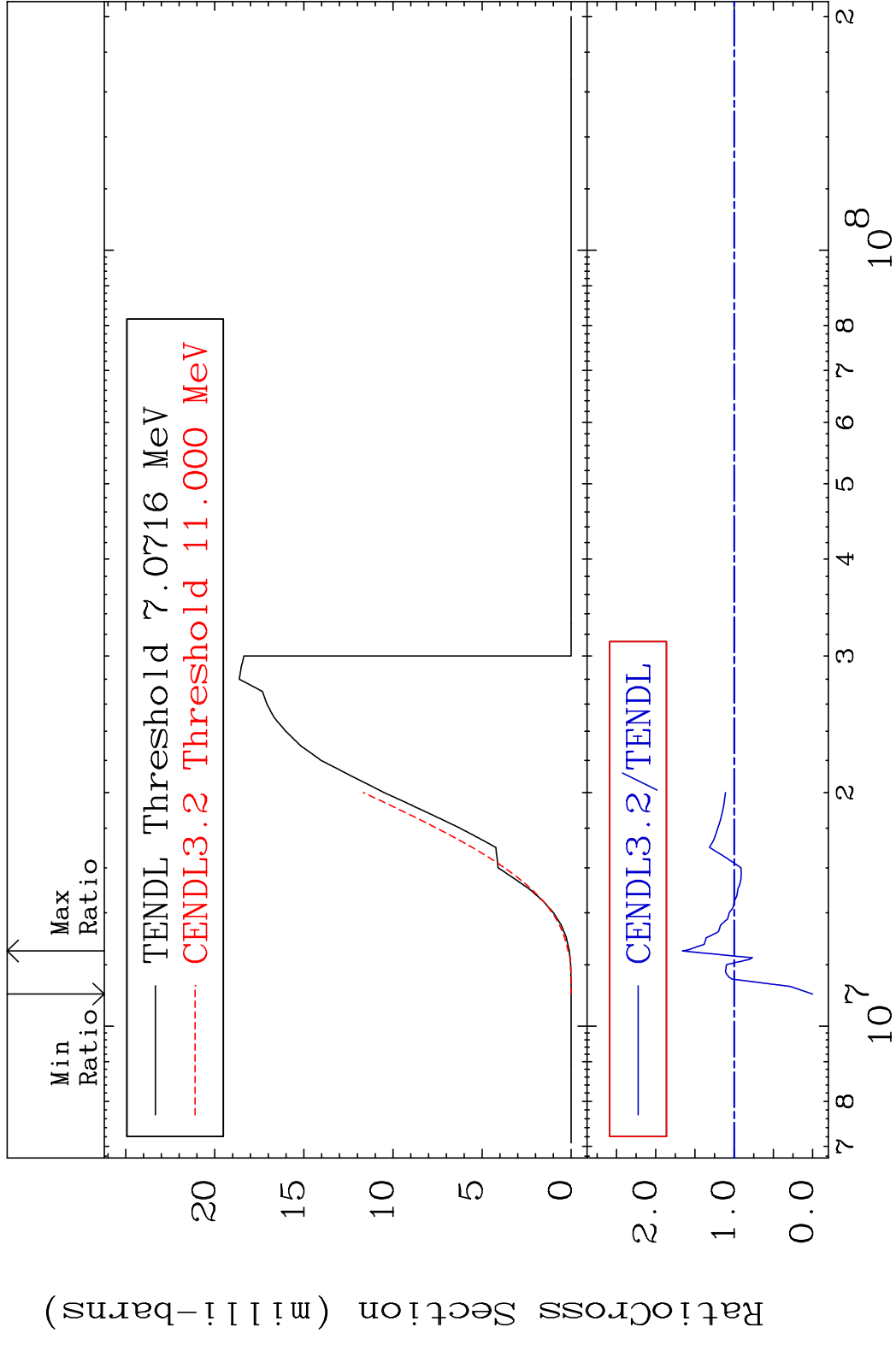


38

Incident Energy (eV)

44-Ru-101

MAT 4440 (n,d) 44-Ru-101
 Cross Section -100.0 To 66.10 %



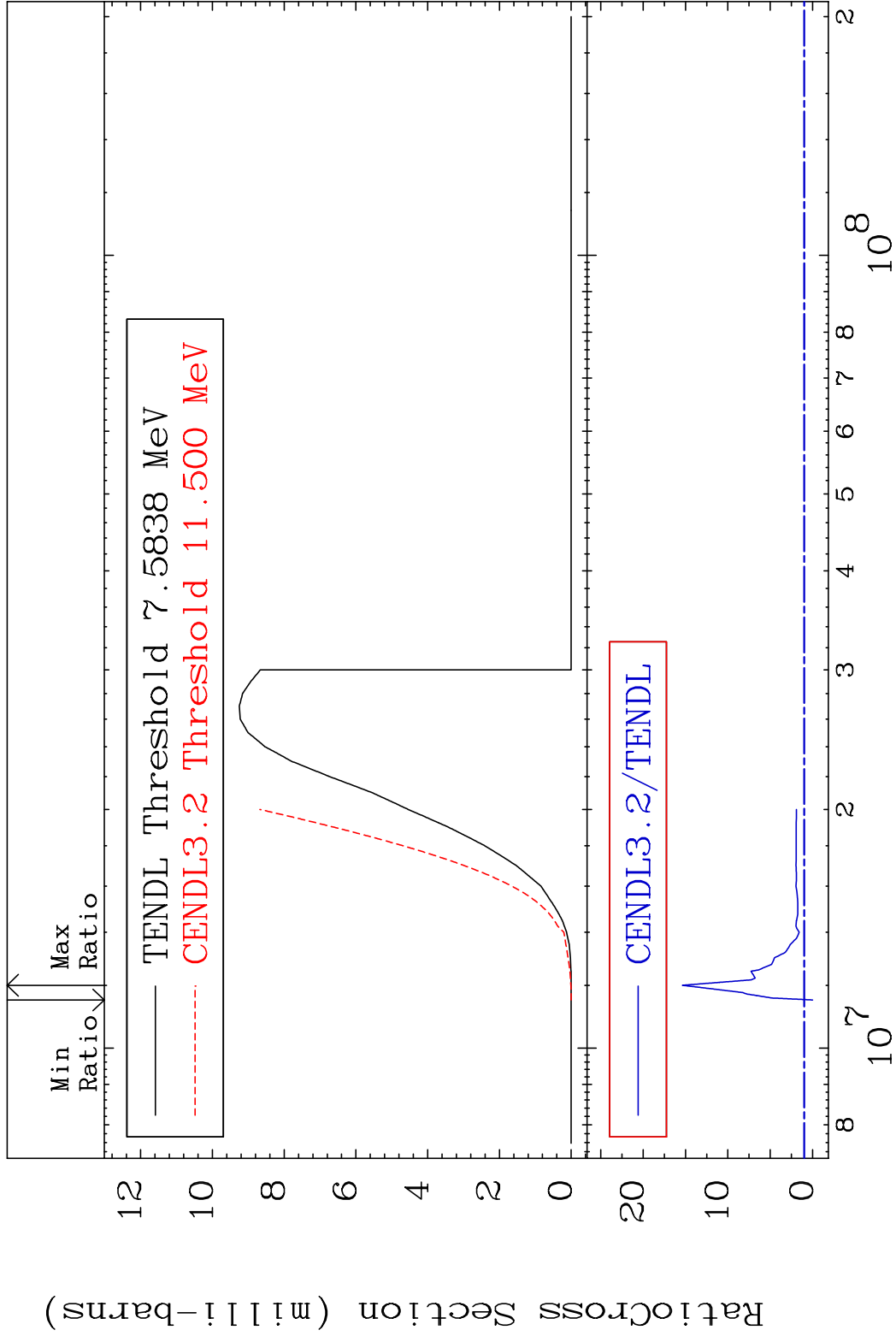
39 Incident Energy (eV) 44-Ru-101

MAT 4440

(n, t)

44-Ru-101

Cross Section -100.0 To 1437. %



40

Incident Energy (eV)

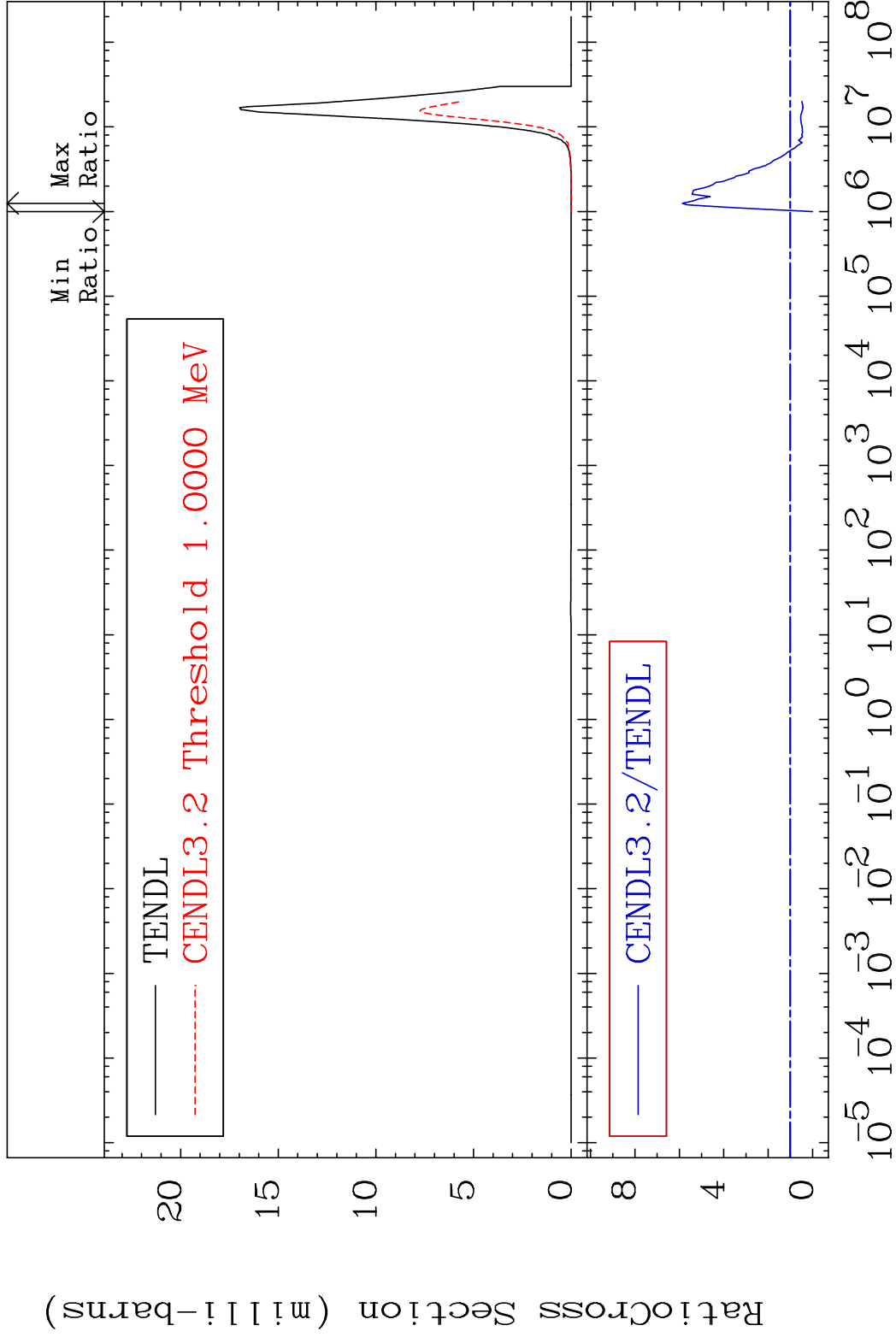
44-Ru-101

MAT 4440

(n, α)

44-Ru-101

Cross Section -100.0 To 486.4 %



41

Incident Energy (eV)

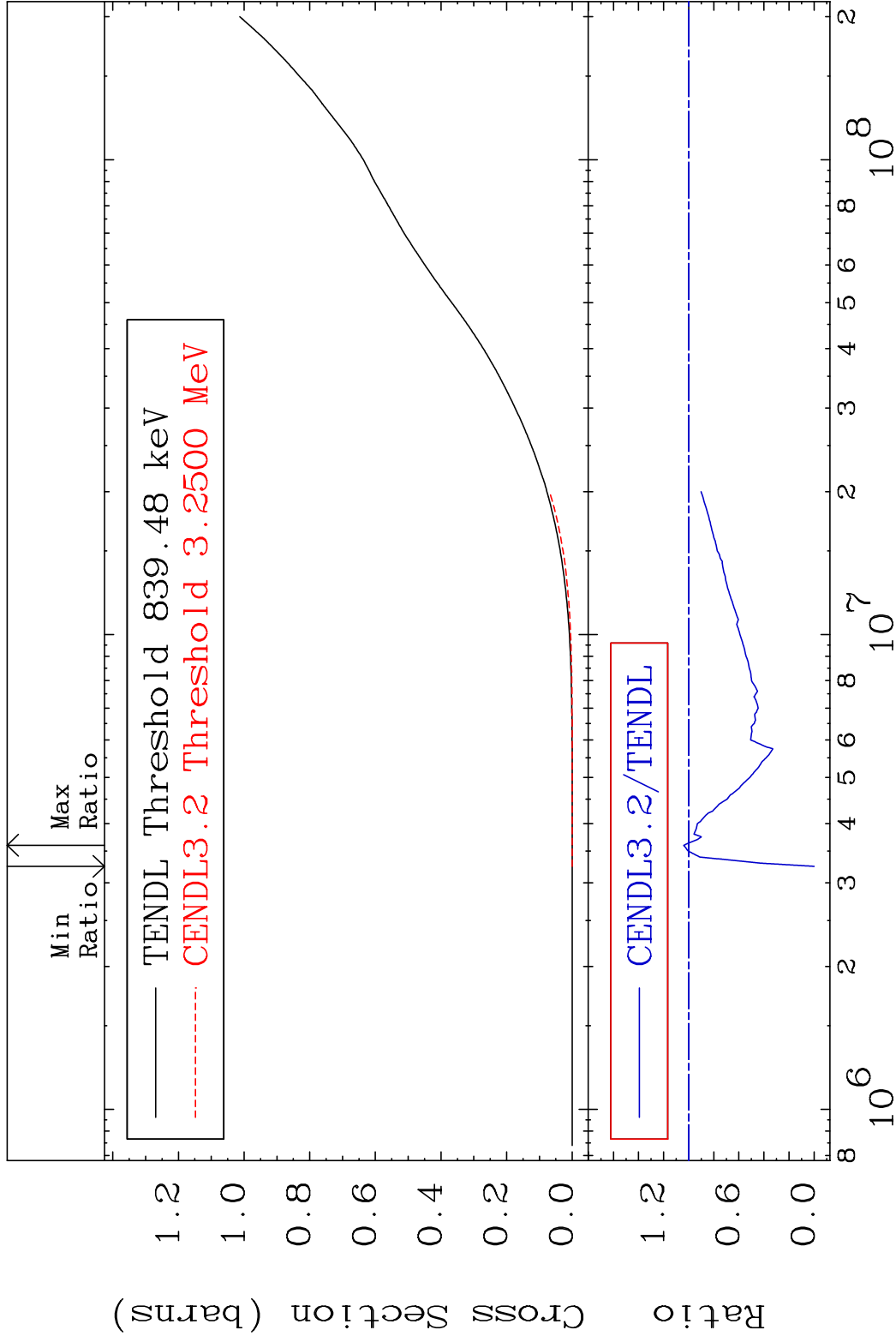
44-Ru-101

MAT 4440

Hydrogen Production

44-Ru-101

Cross Section -100.0 To 4.027 %

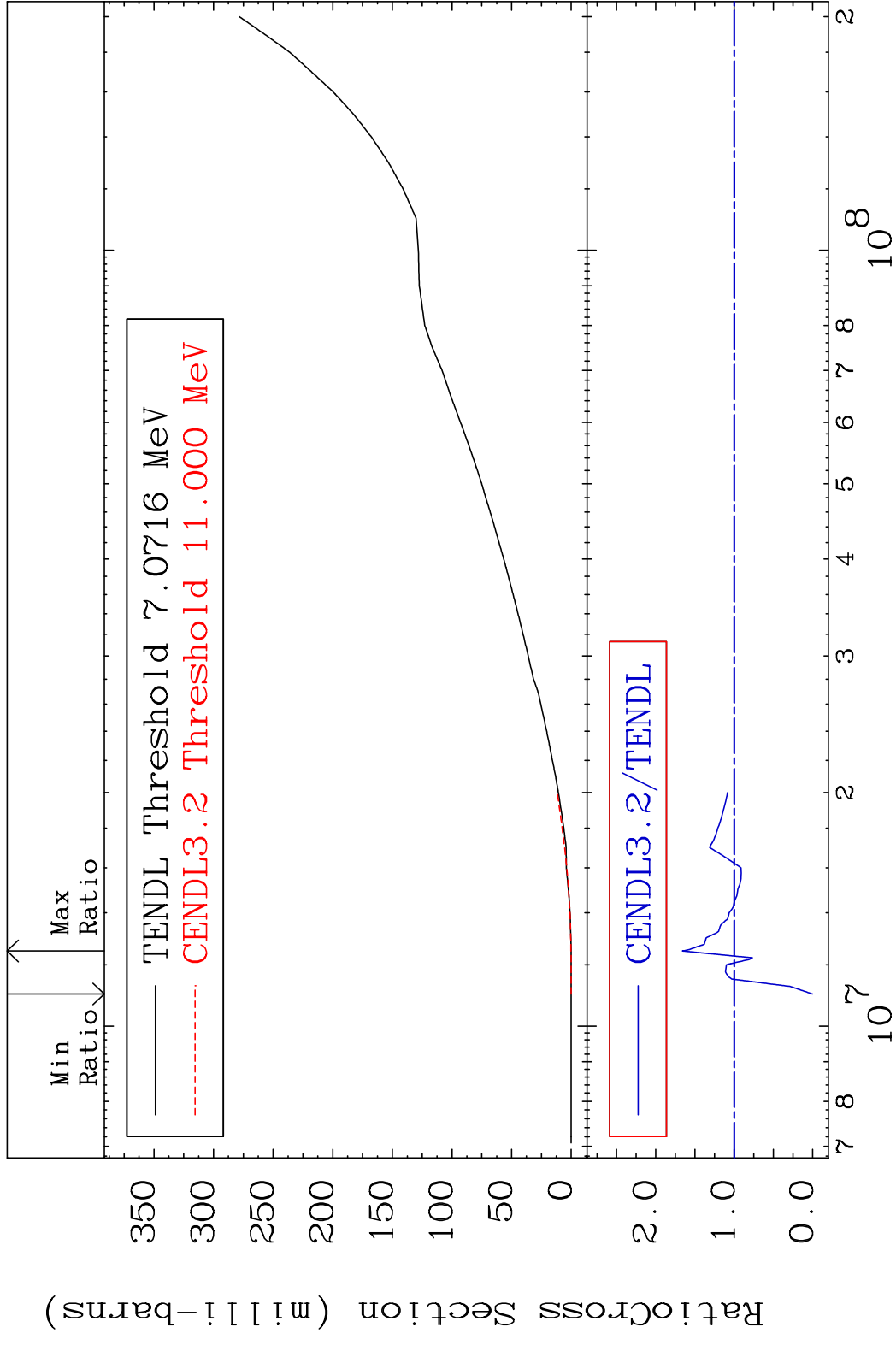


42

Incident Energy (eV)

44-Ru-101

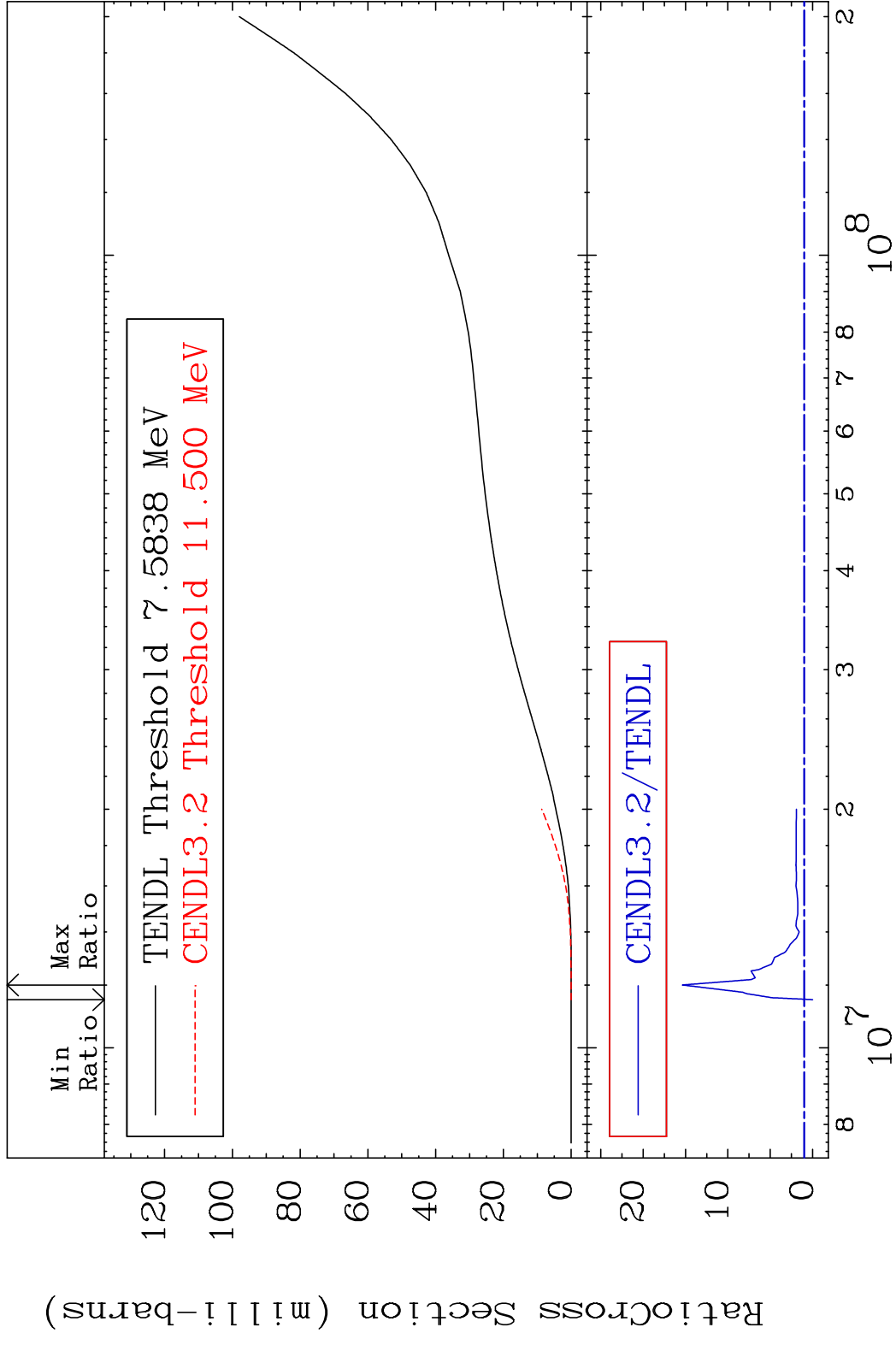
MAT 4440 Deuterium Production 44-Ru-101
 Cross Section -100.0 To 66.10 %



MAT 4440

Tritium Production 44-Ru-101

Cross Section -100.0 To 1437. %



44

Incident Energy (eV)

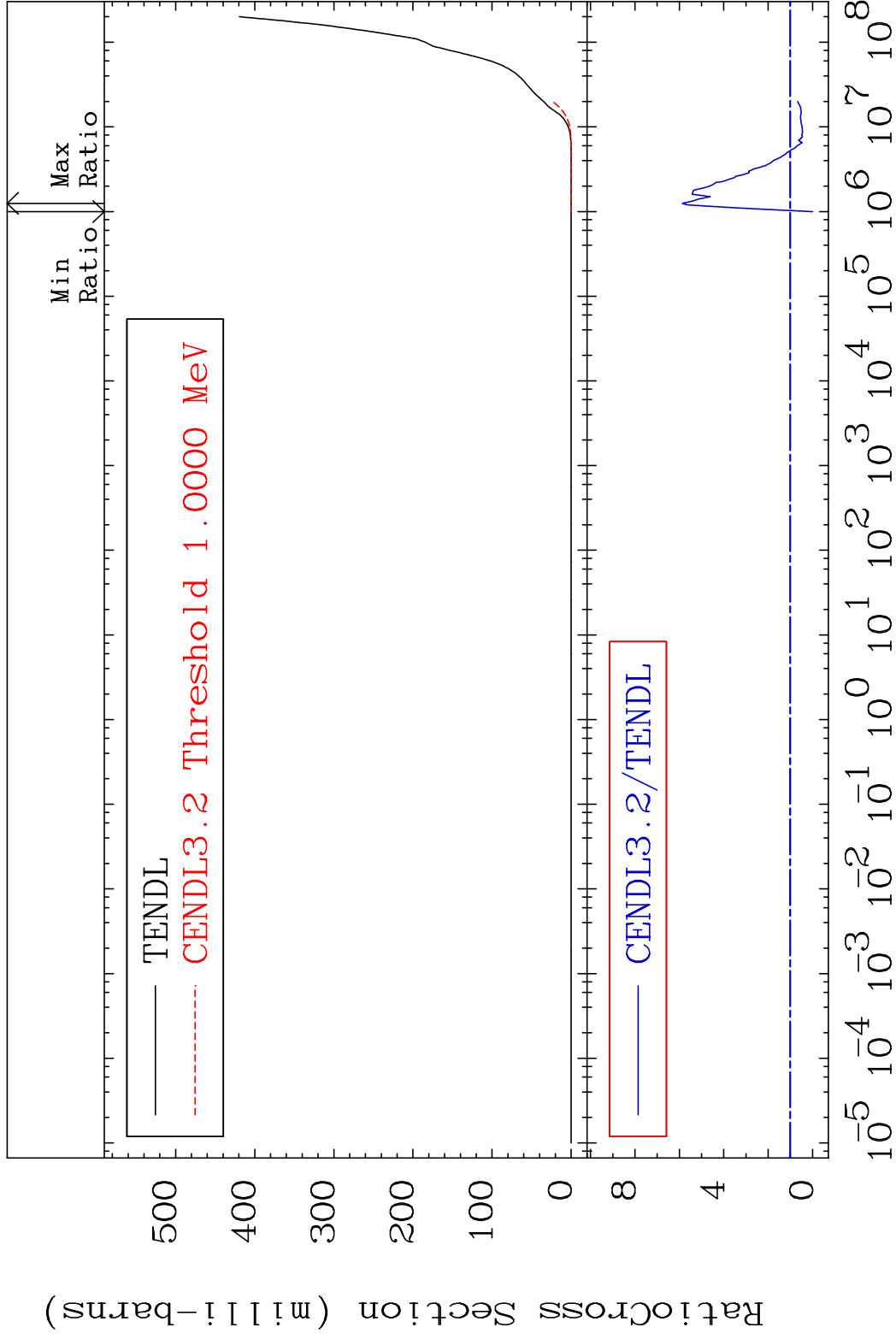
44-Ru-101

MAT 4440

He-4 Production

44-Ru-101

Cross Section -100.0 To 486.4 %

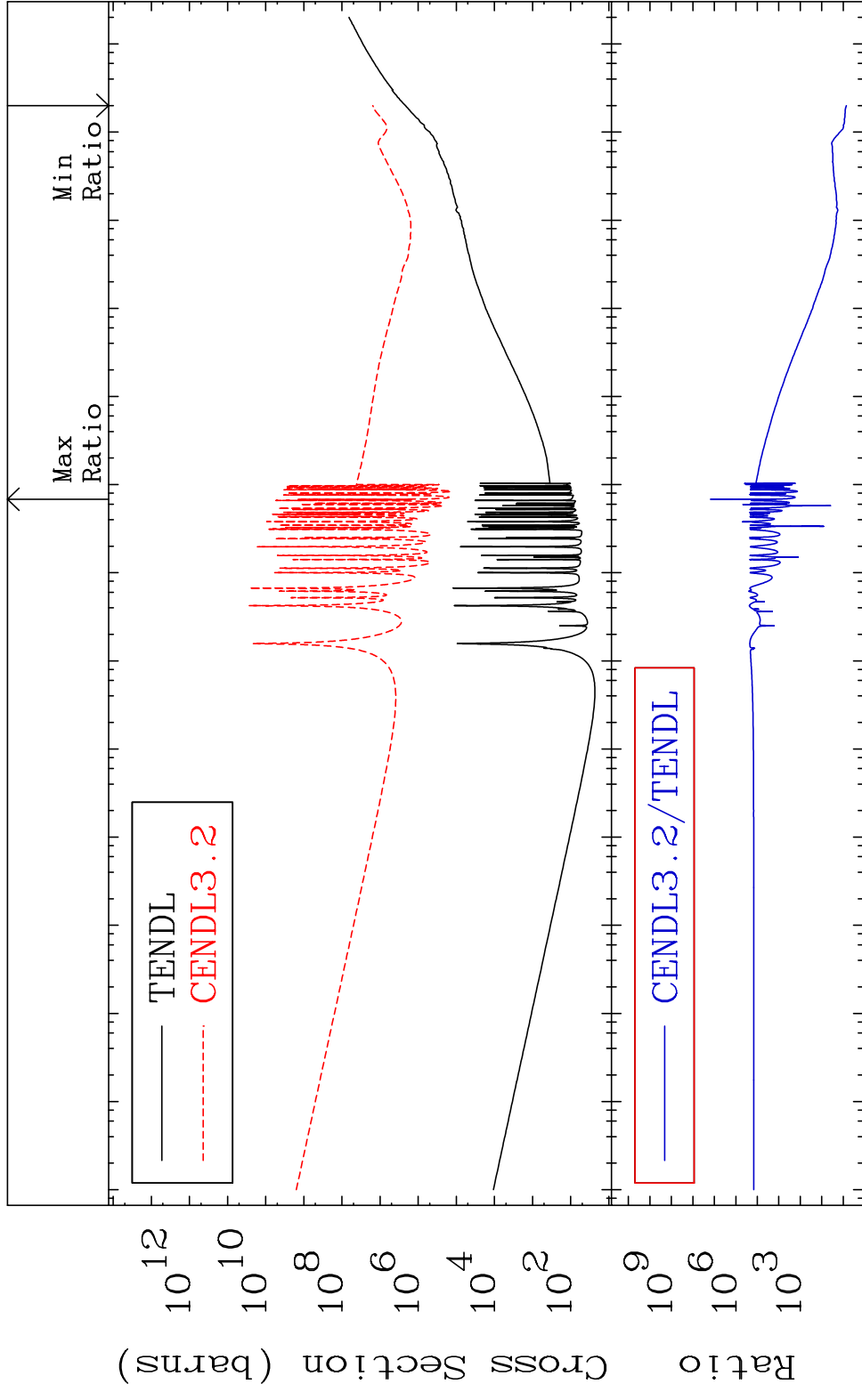


45

Incident Energy (eV)

44-Ru-101

MAT 4440 Kerma total (eV-barns) 44-Ru-101
 Cross Section 618.5 To 9999. %

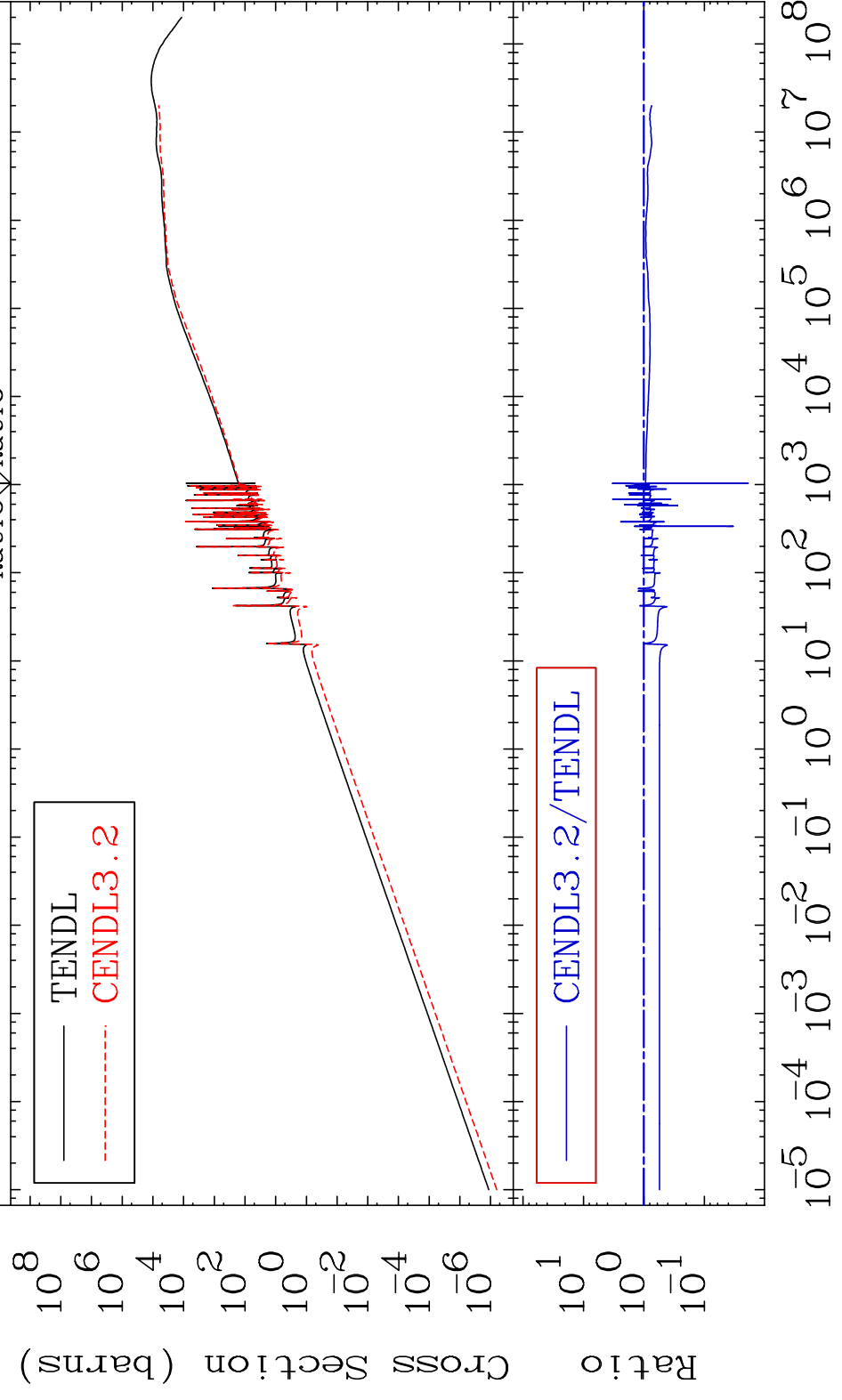


10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

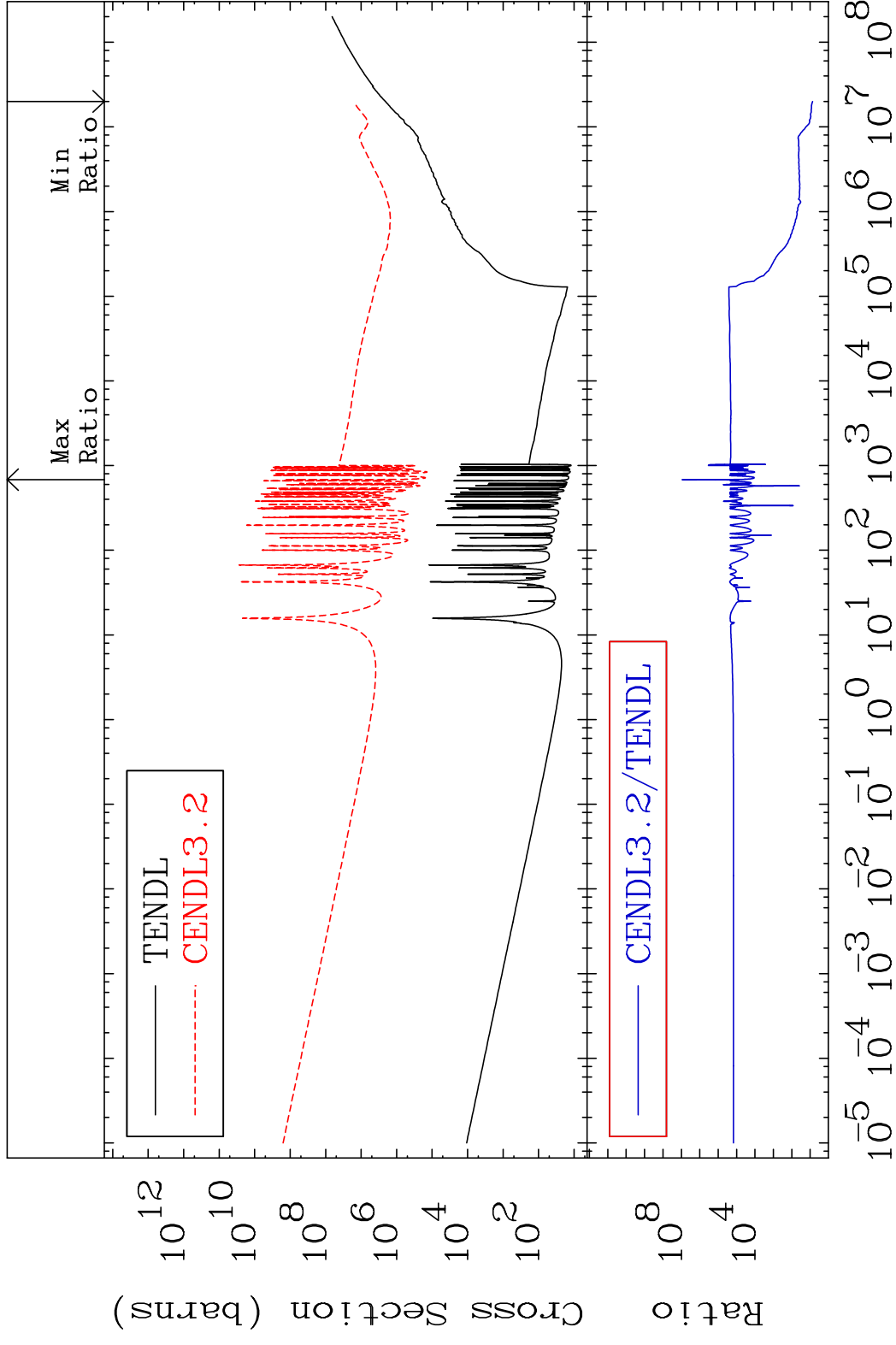
MAT 4440

Kerma elastic
Cross Section -98.11 To 231.2 %

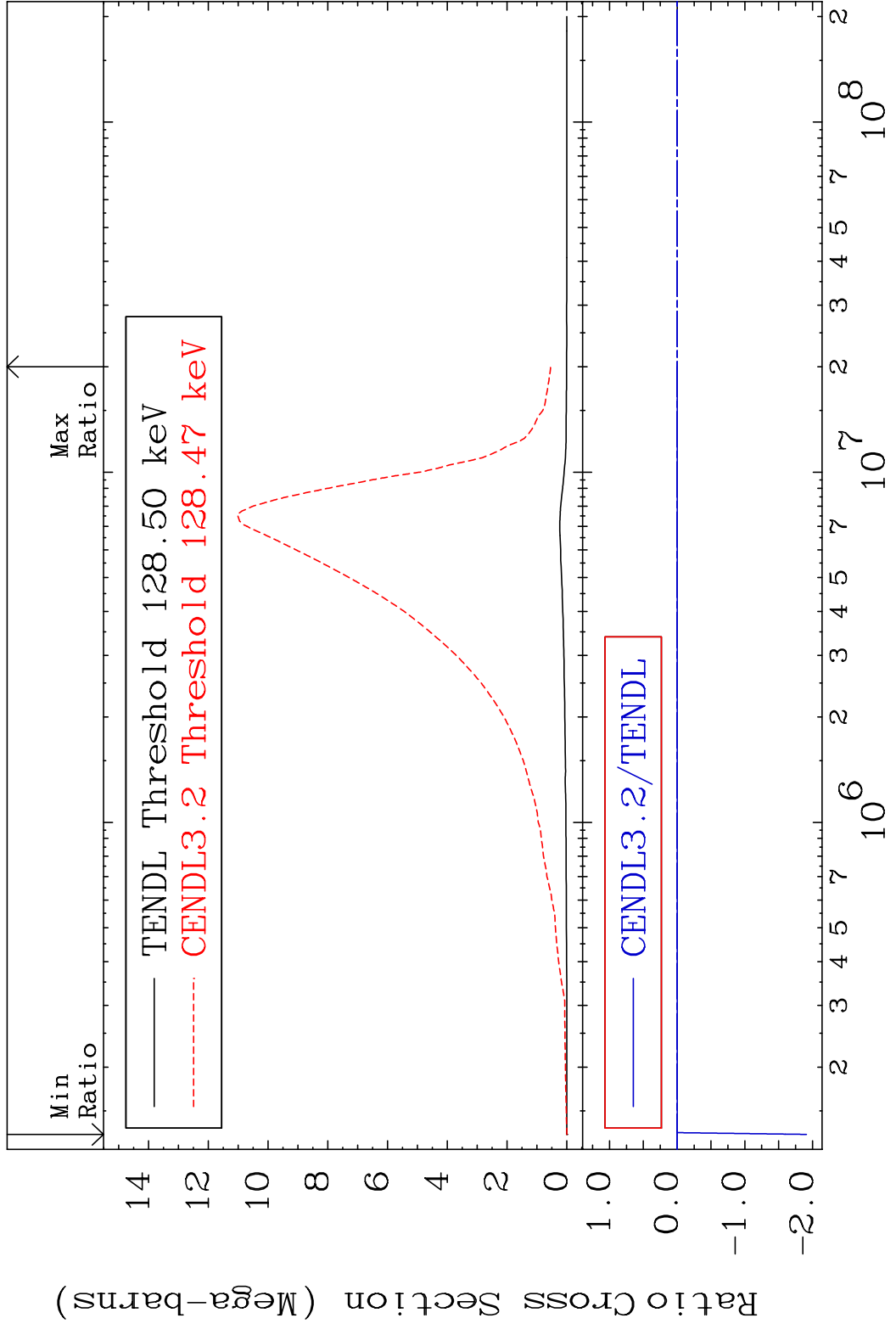
44-Ru-101



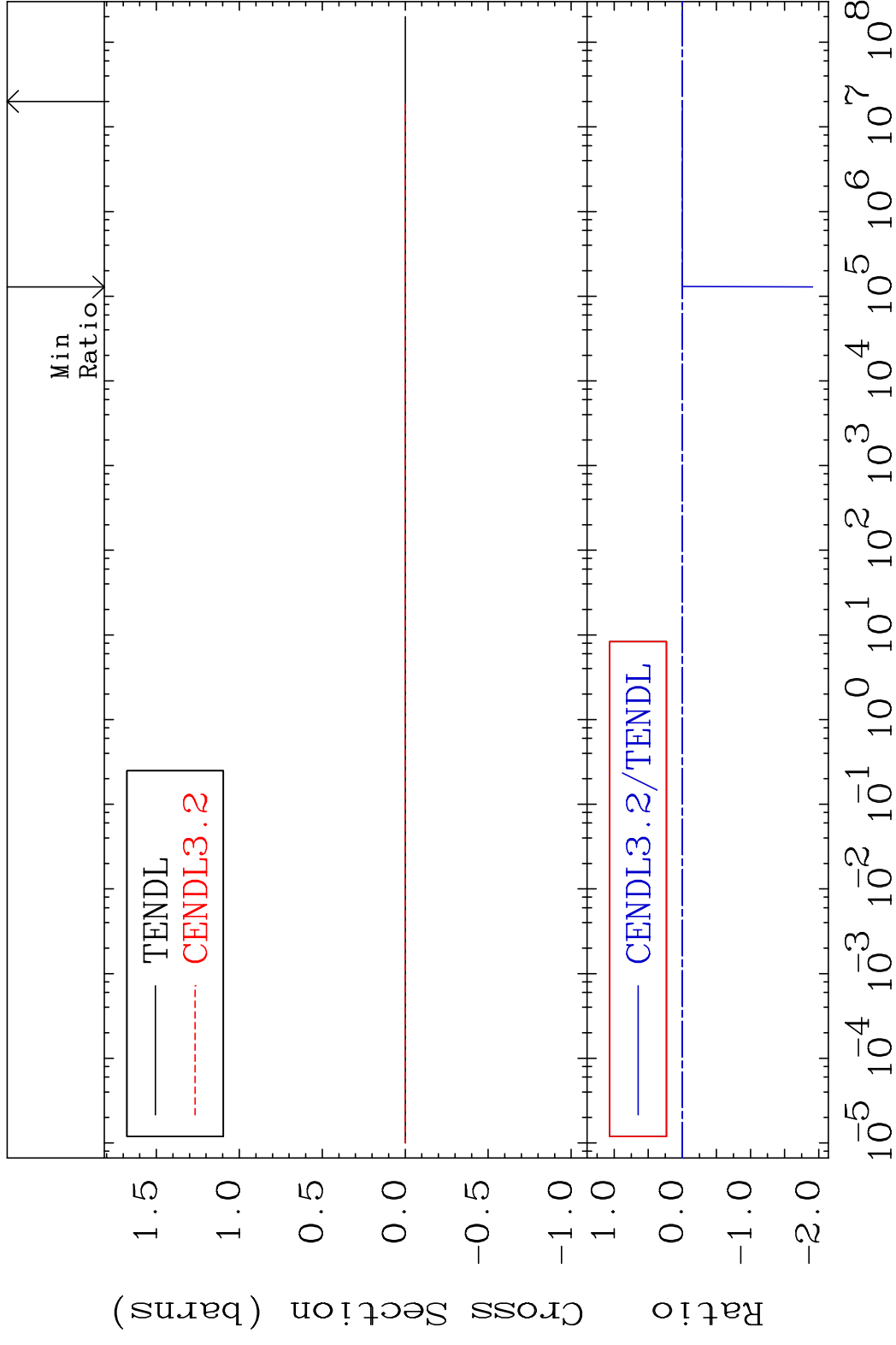
MAT 4440 Kerma non-elastic (all but mt2) 44-Ru-101
 Cross Section 645.2 To 9999. %



MAT 4440 Kerma inelastic (mt51-91) 44-Ru-101
 Cross Section -9999. To 6969. %



MAT 4440 Kerma fission (mt18 or mt19-20-21-38) 44-Ru-101
 Cross Section -9999. To 6969. %

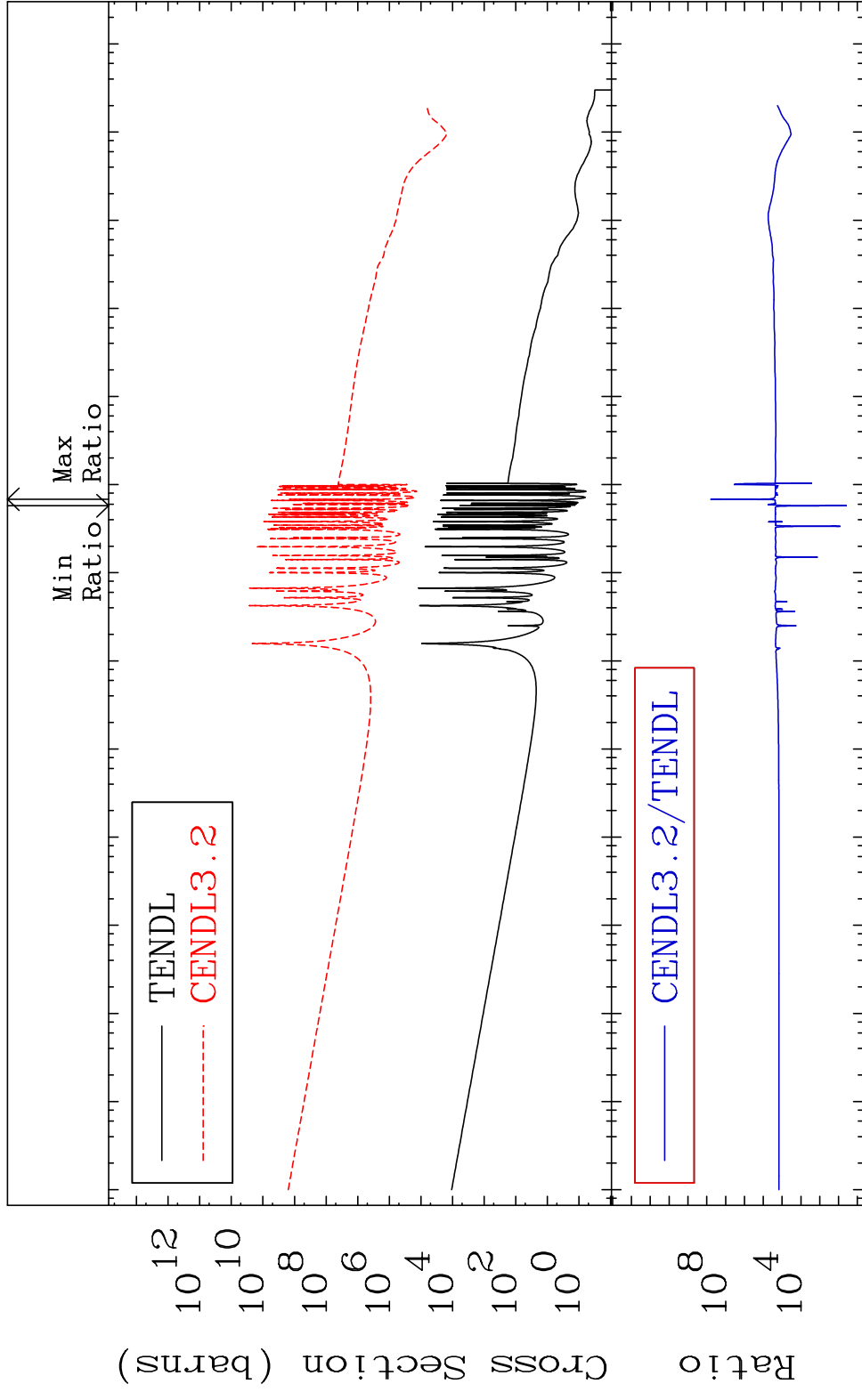


MAT 4440

Kerma capture (mt102)

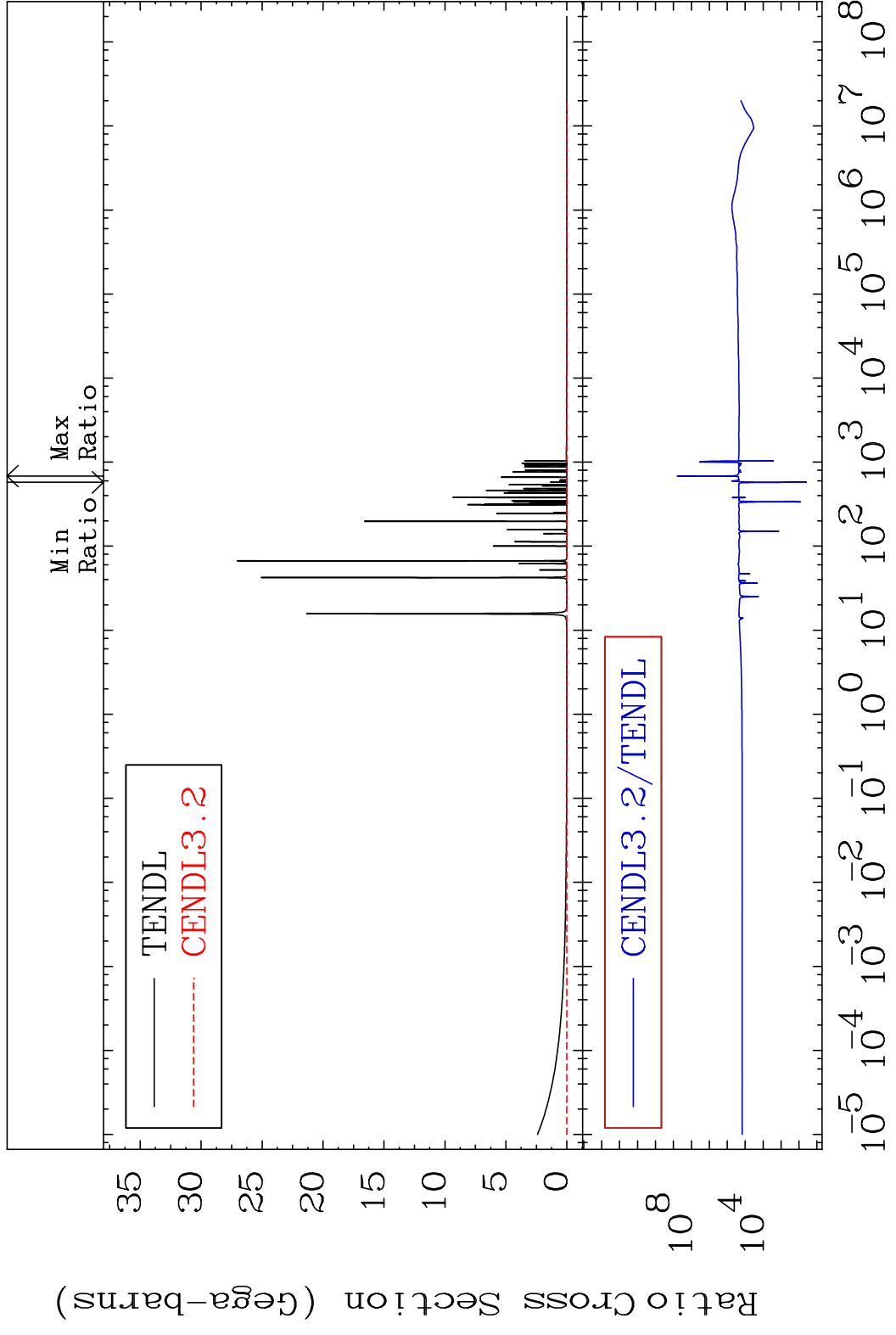
44-Ru-101

Cross Section 3779. To 9999. %

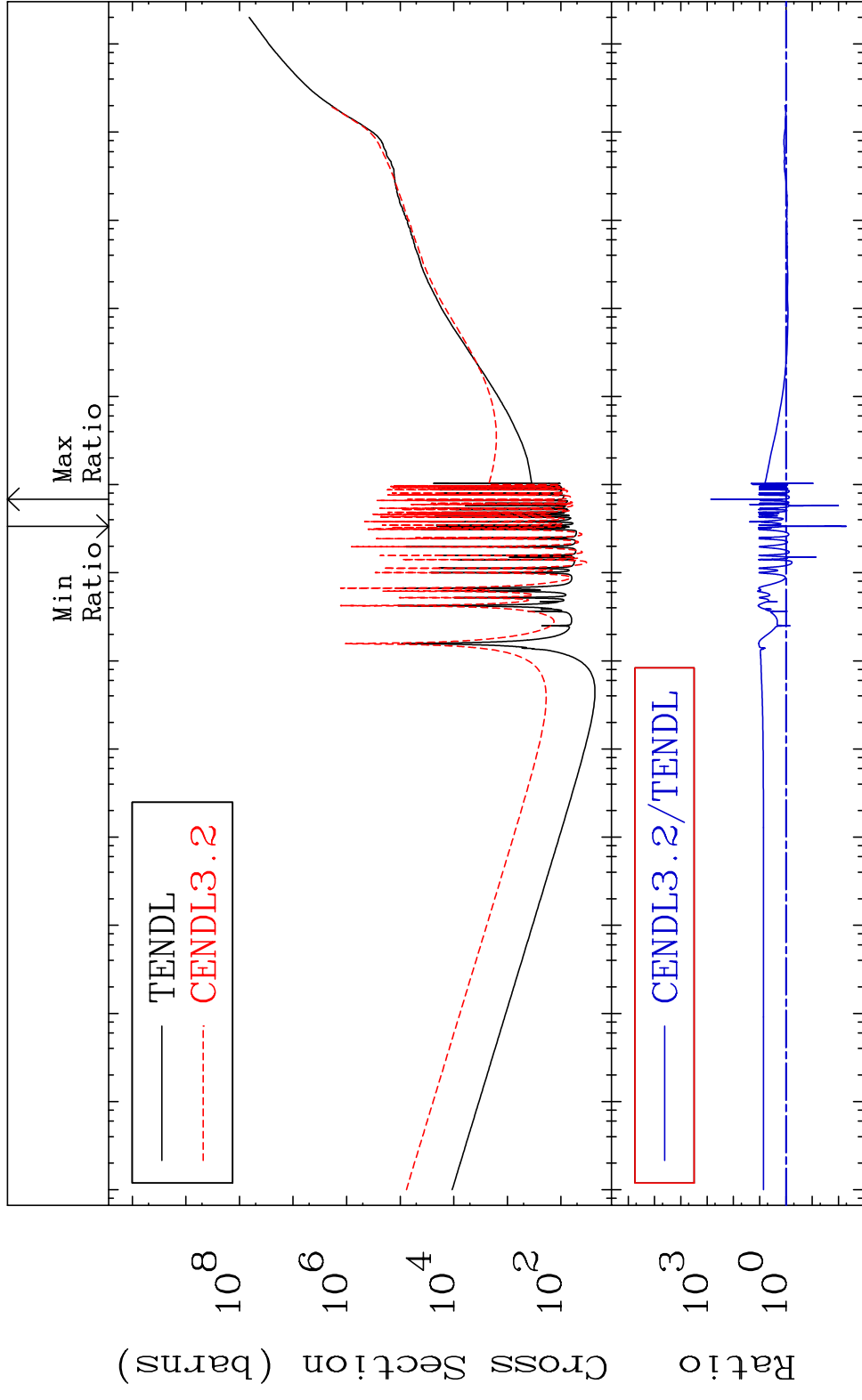


MAT 4440

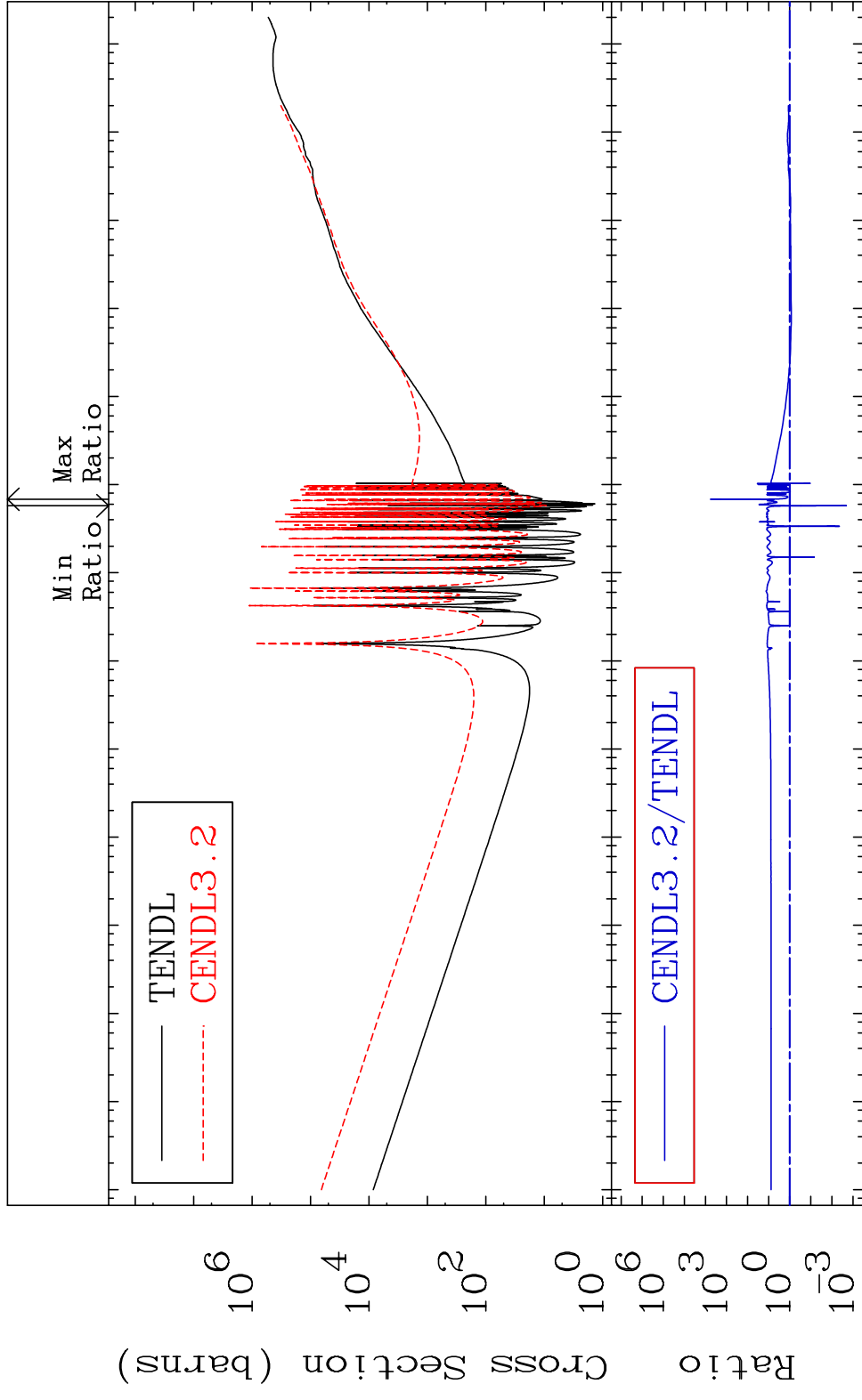
Total photon (eV-barns) 44-Ru-101
Cross Section 3779. To 9999. %



MAT 4440 Total kinematic kerma (high limit) 44-Ru-101
 Cross Section -99.49 To 9999. %



MAT 4440 Dpa total (eV-barns) 44-Ru-101
 Cross Section -99.79 To 9999. %

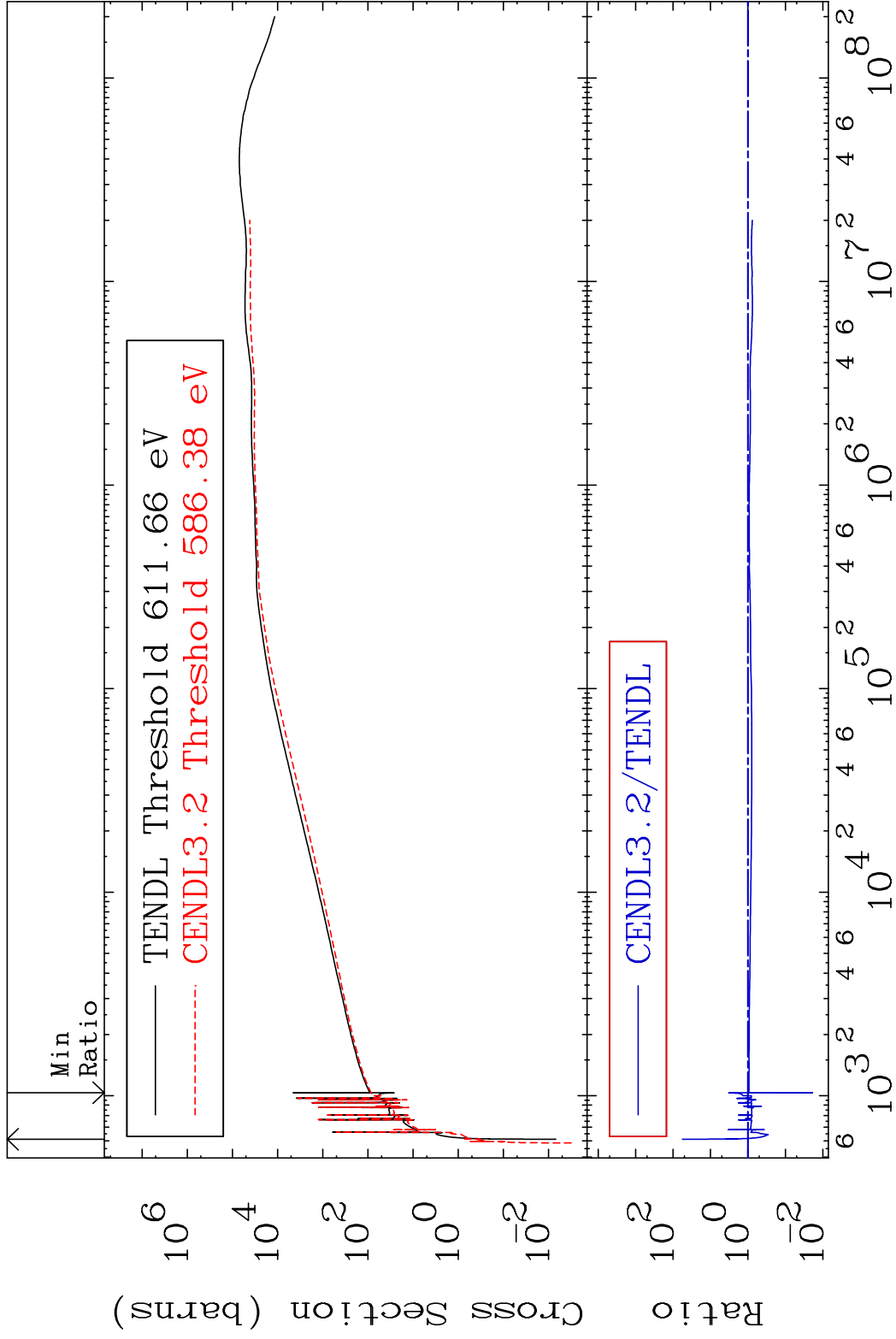


MAT 4440

Dpa elastic (mt2)

44-Ru-101

Cross Section -98.13 To 5568. %

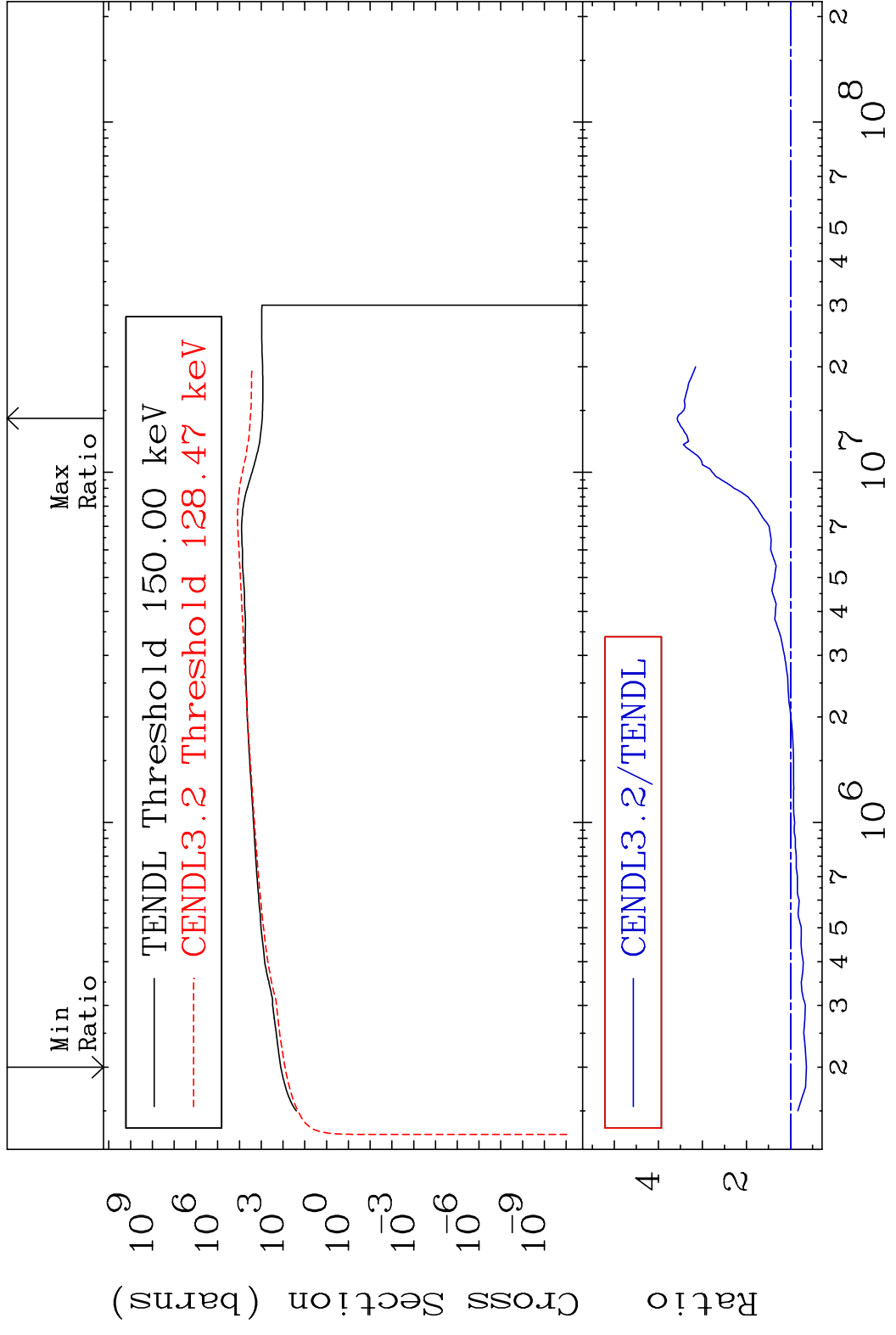


55

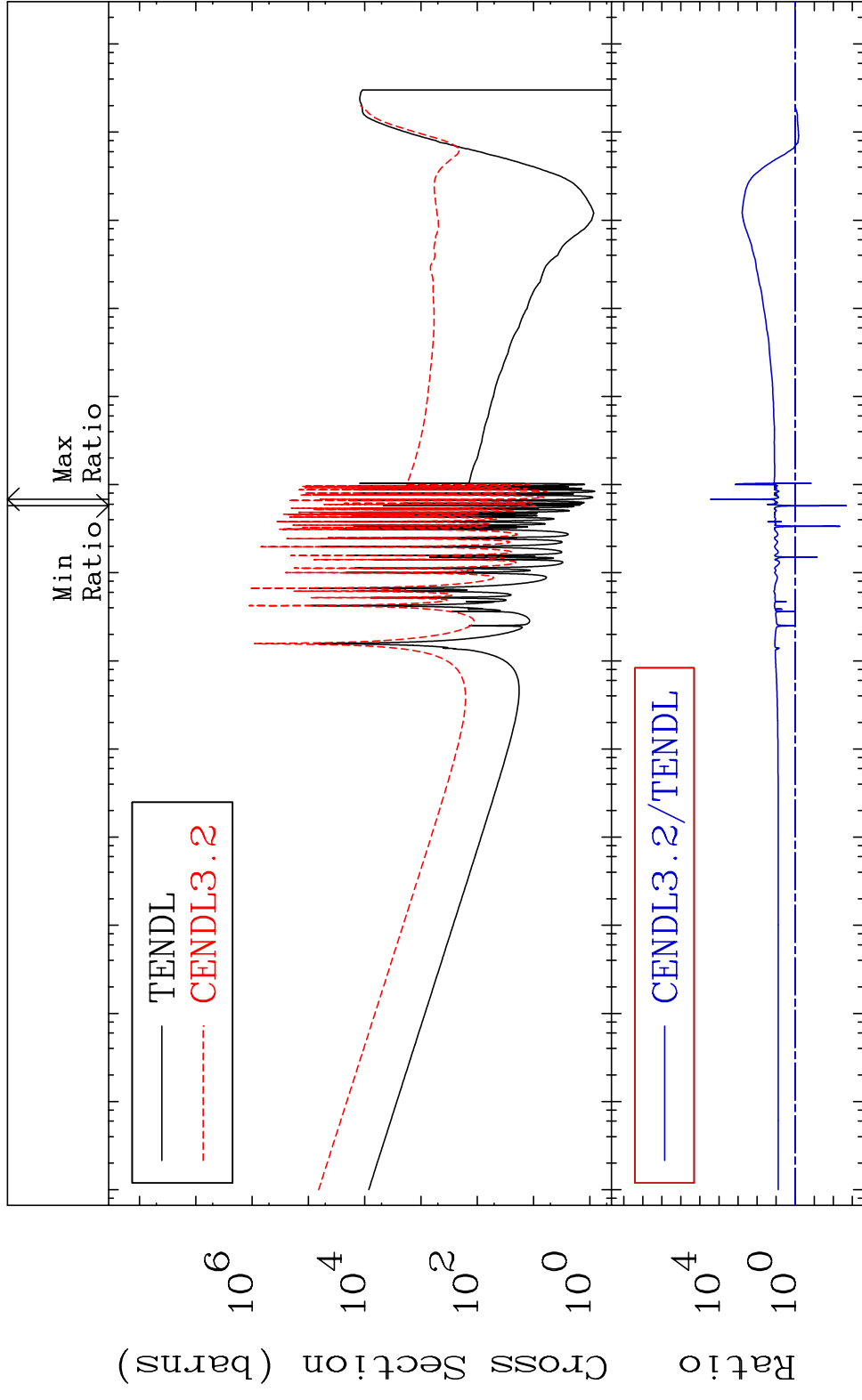
Incident Energy (eV)

44-Ru-101

MAT 4440 Dpa inelastic (mt51-91) 44-Ru-101
 Cross Section -36.01 To 257.3 %

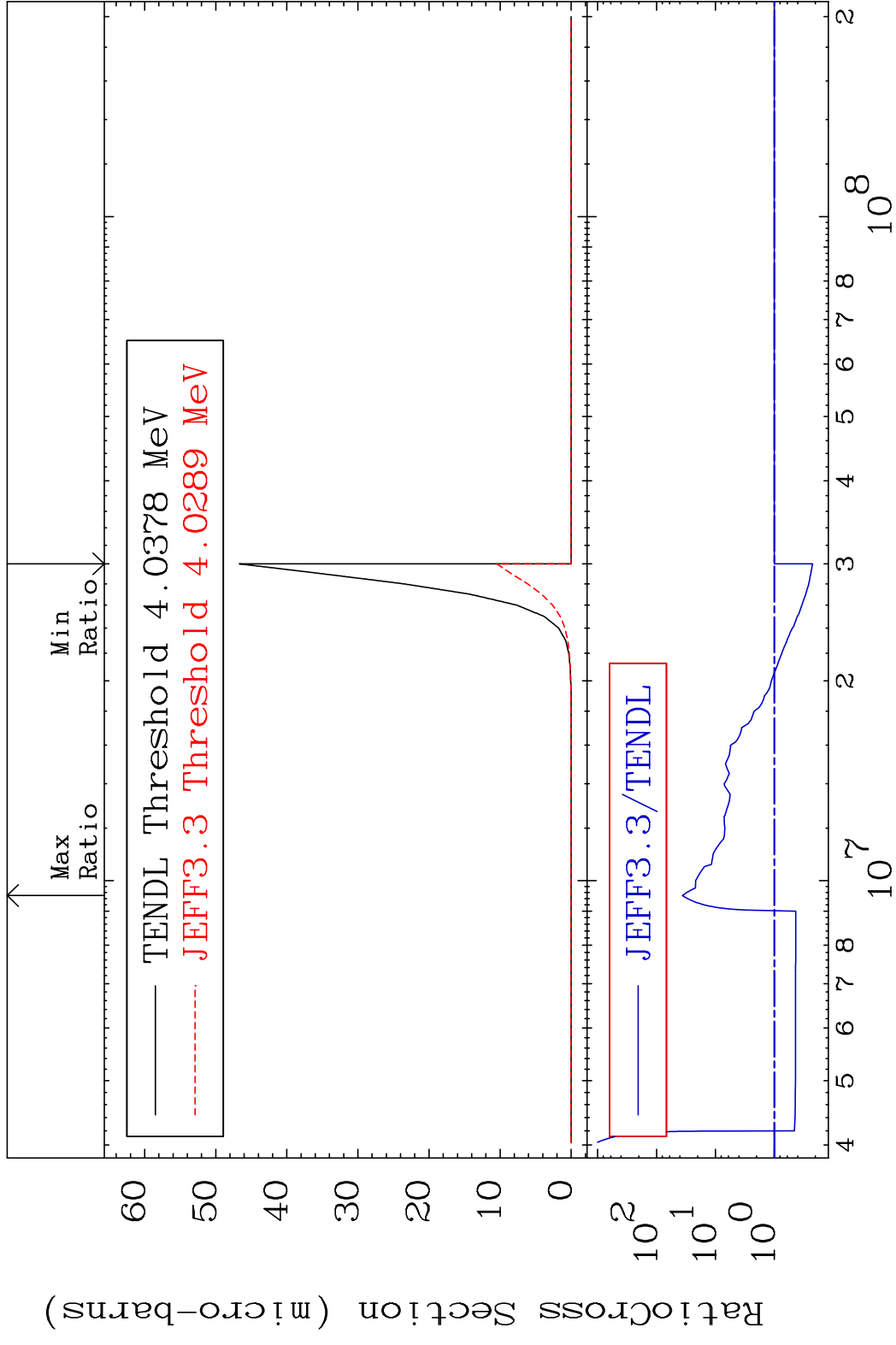


MAT 4440 Dpa disappearance (mt102 -120) 44-Ru-101
 Cross Section -99.79 To 9999. %

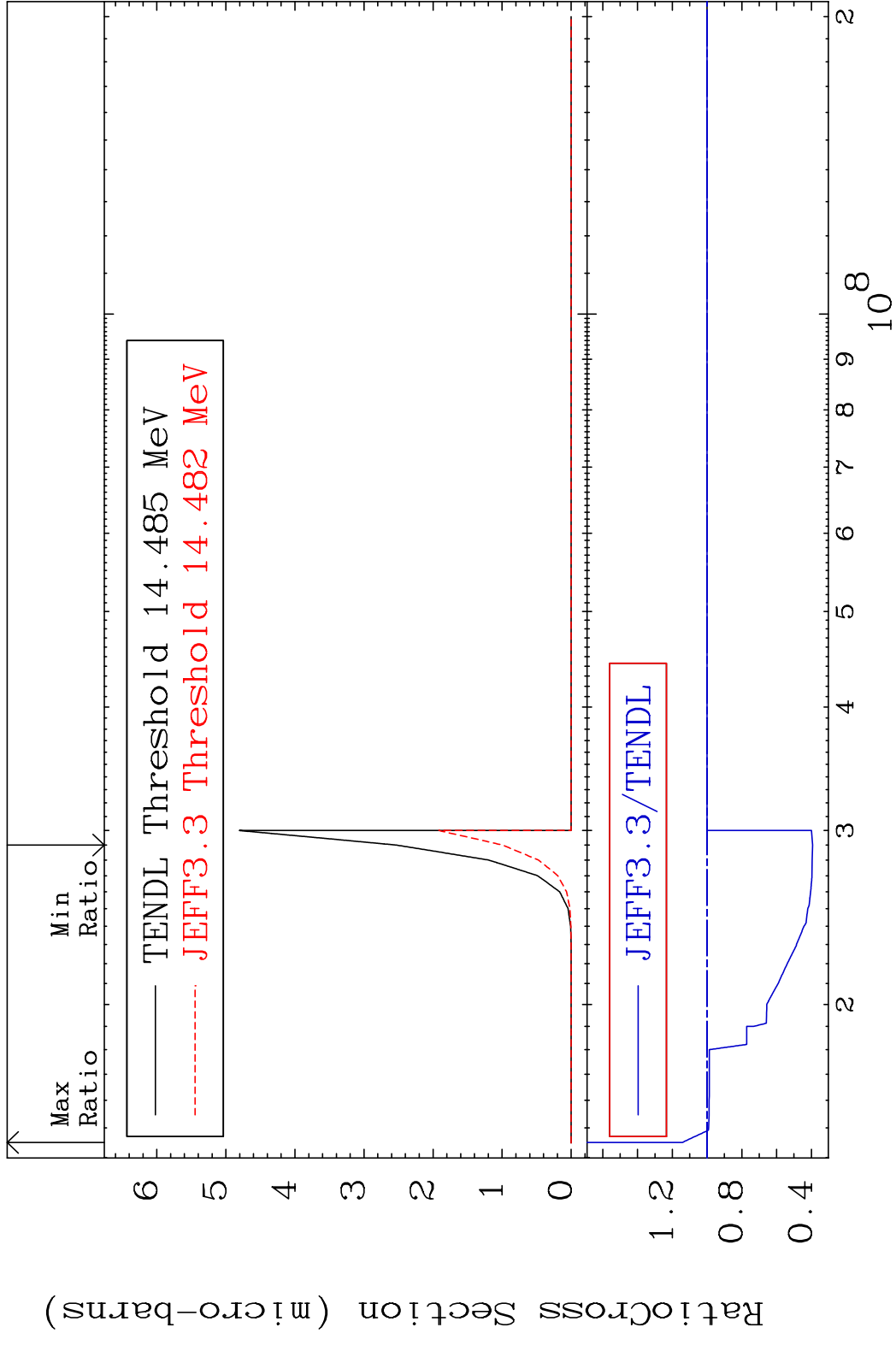


57 Incident Energy (eV) 44-Ru-101

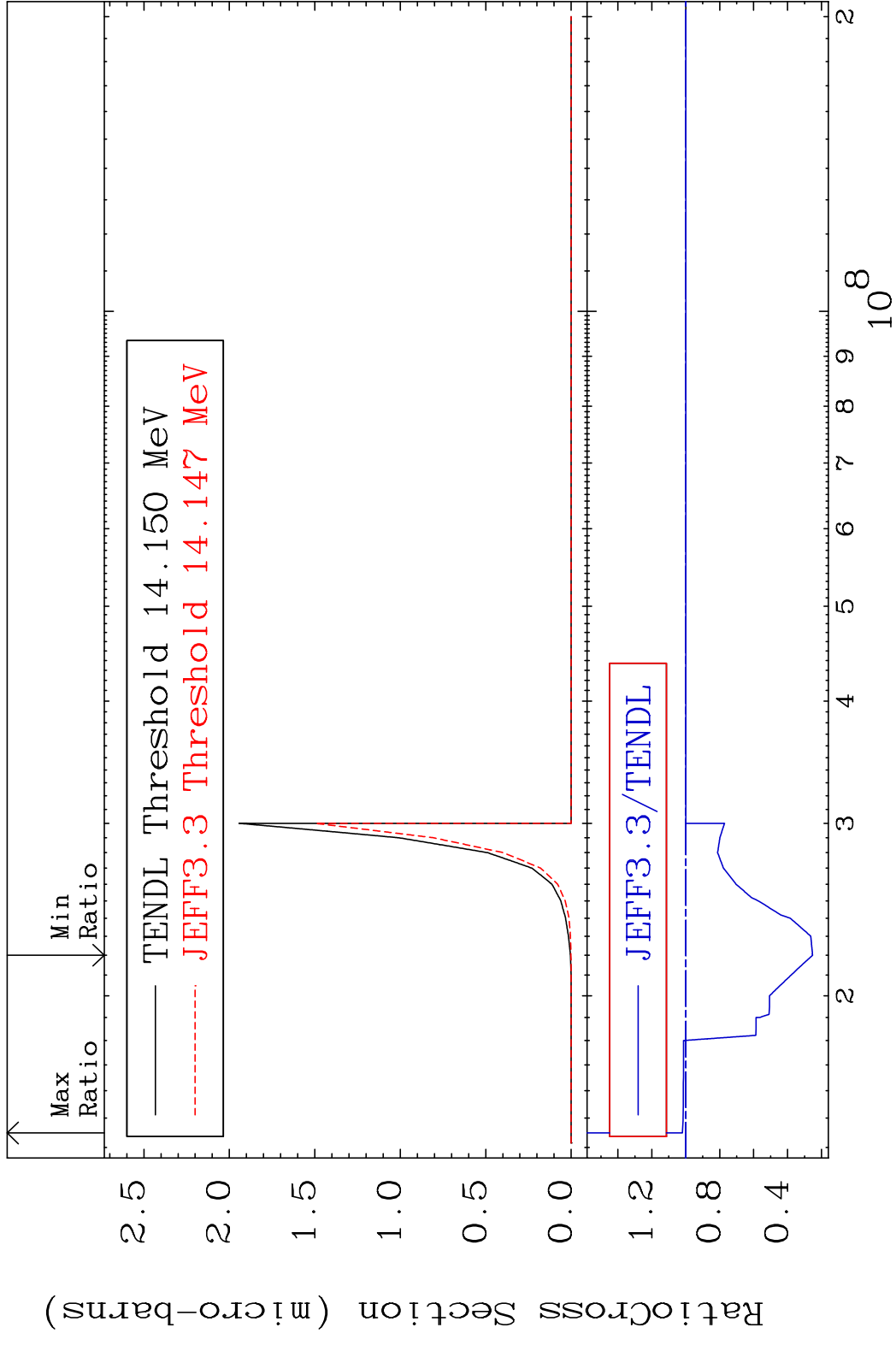
MAT 4440 (n,p) α 44-Ru-101
 Cross Section -77.60 To 3542. %



MAT 4440 (n,p) d 44-Ru-101
 Cross Section -60.69 To 14.23 %



MAT 4440 (n,p) t 44-Ru-101
 Cross Section -74.73 To 2.002 %

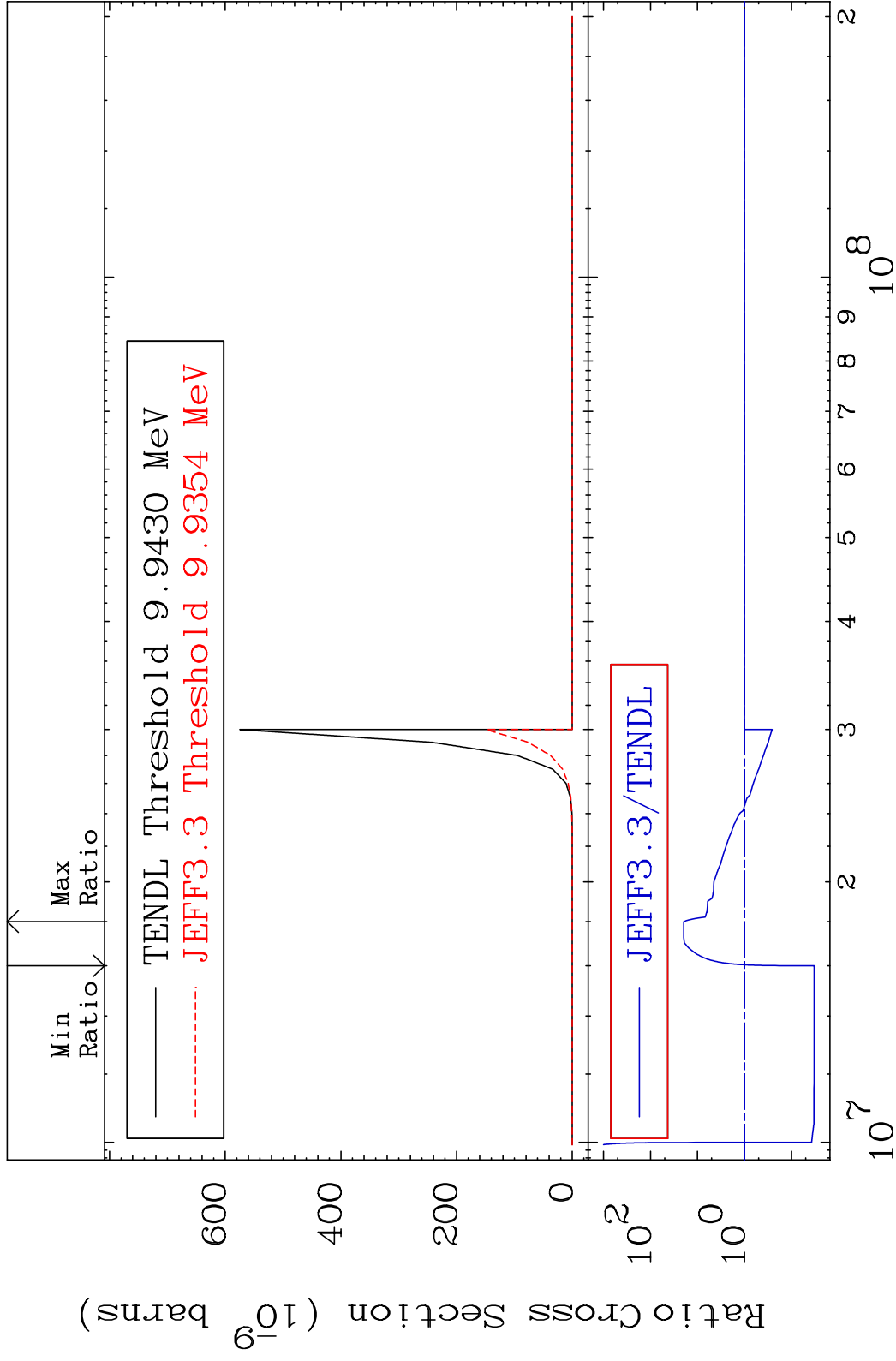


MAT 4440

(n,d) α

44-Ru-101

Cross Section -96.69 To 1869. %



61

Incident Energy (eV)

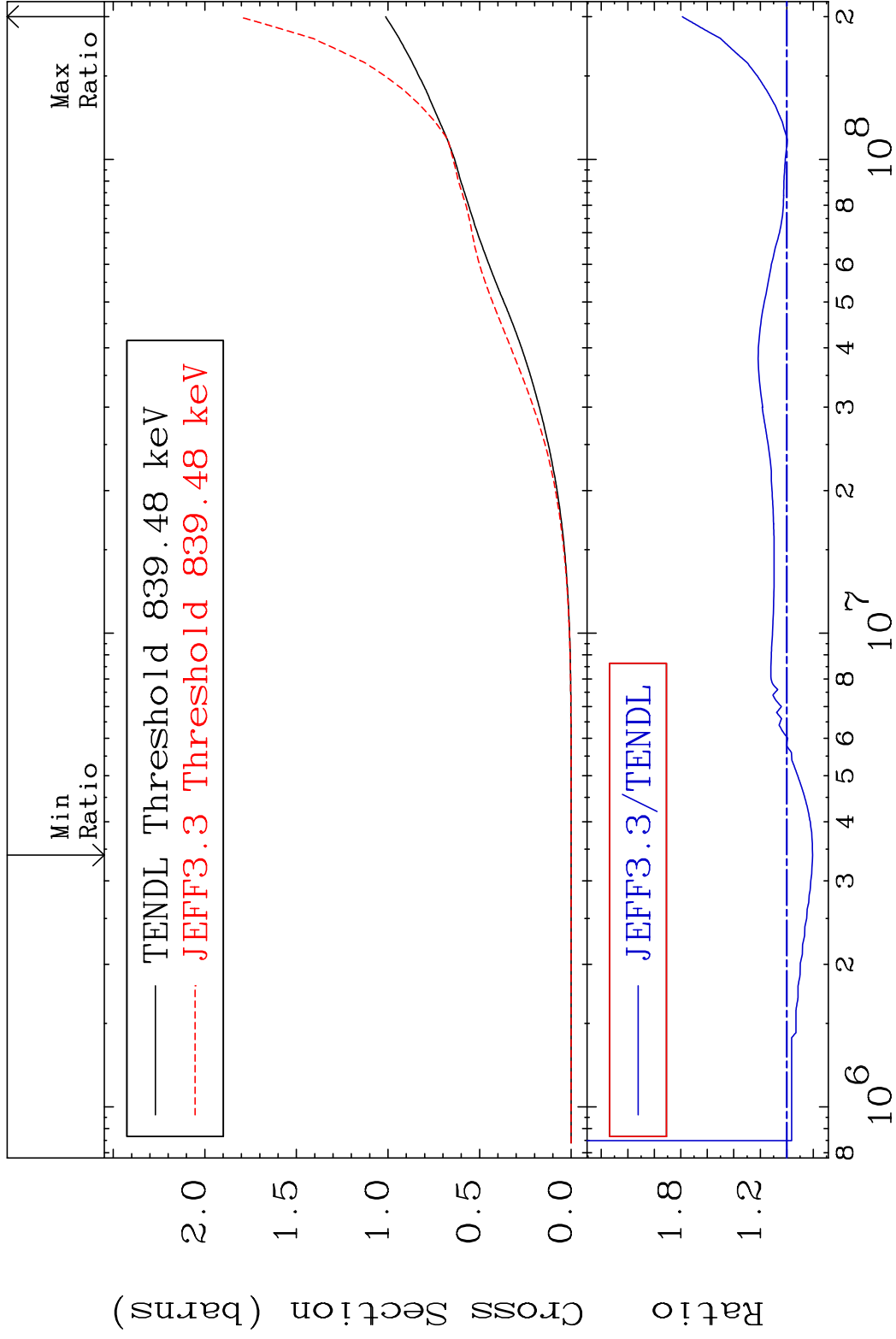
44-Ru-101

MAT 4440

Hydrogen Production

44-Ru-101

Cross Section -19.42 To 78.83 %



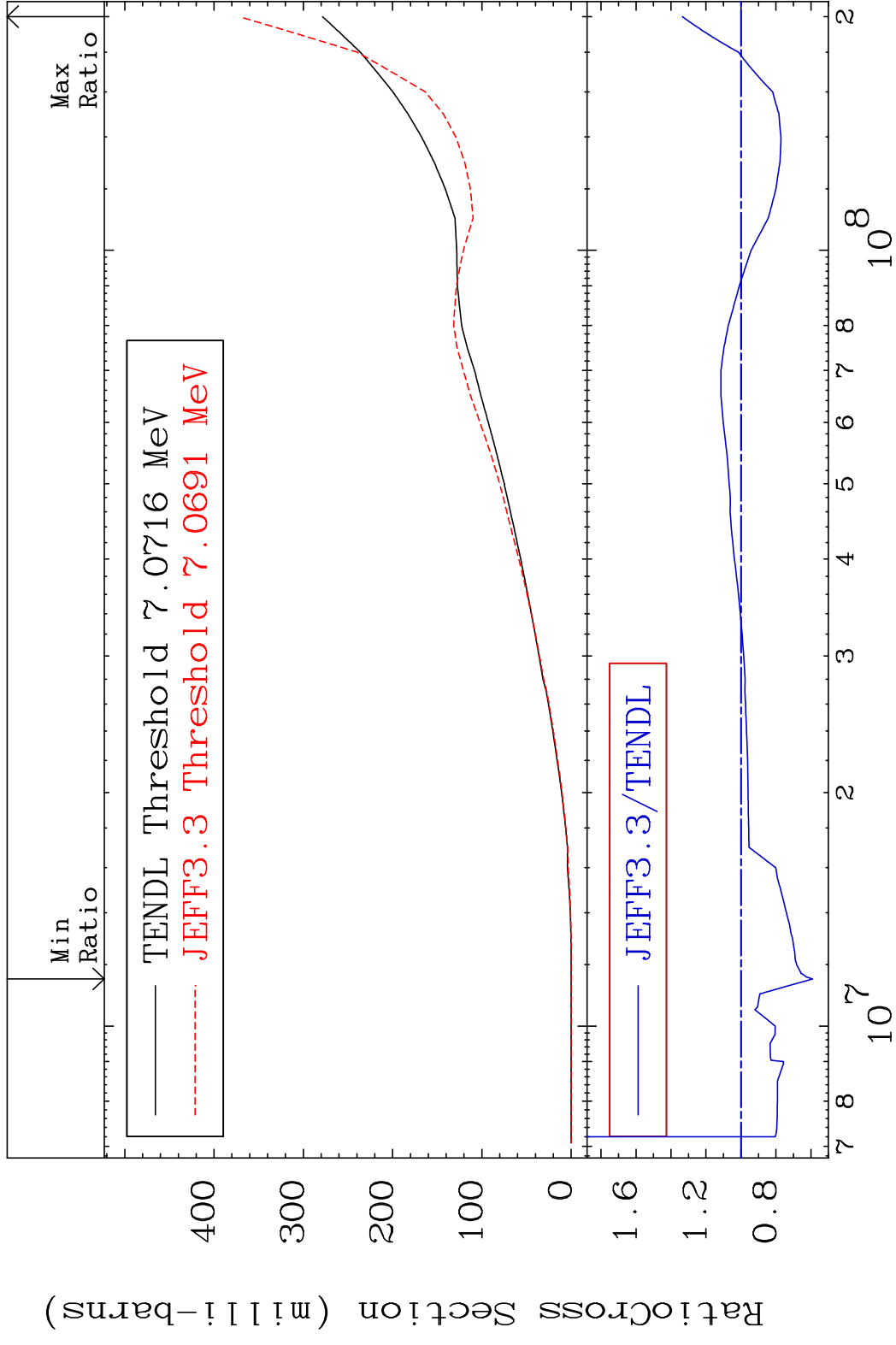
62

Incident Energy (eV)

44-Ru-101

MAT 4440

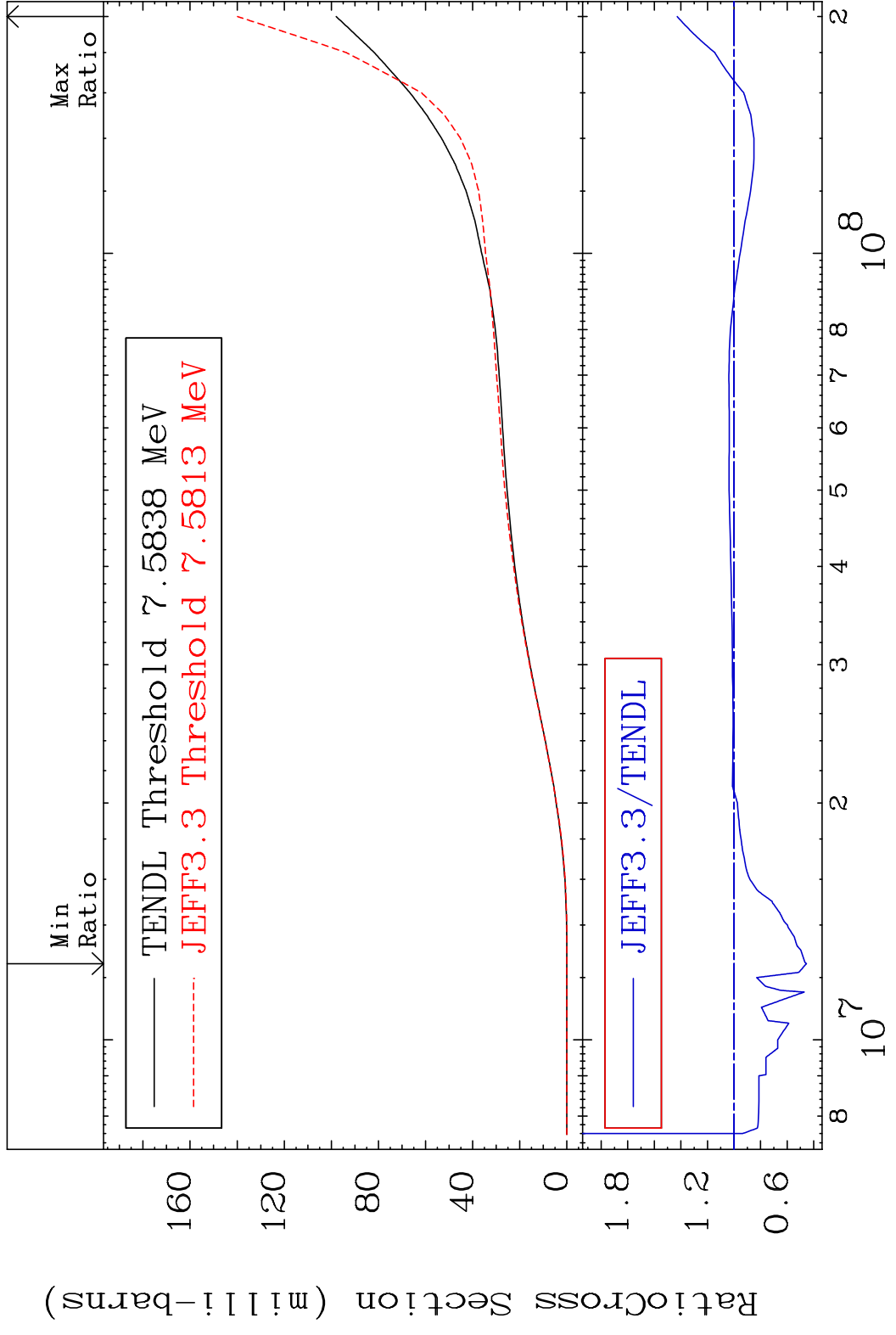
Deuterium Production 44-Ru-101
Cross Section -40.93 To 33.51 %



63

Incident Energy (eV) 44-Ru-101

MAT 4440 Tritium Production 44-Ru-101
 Cross Section -54.51 To 42.78 %



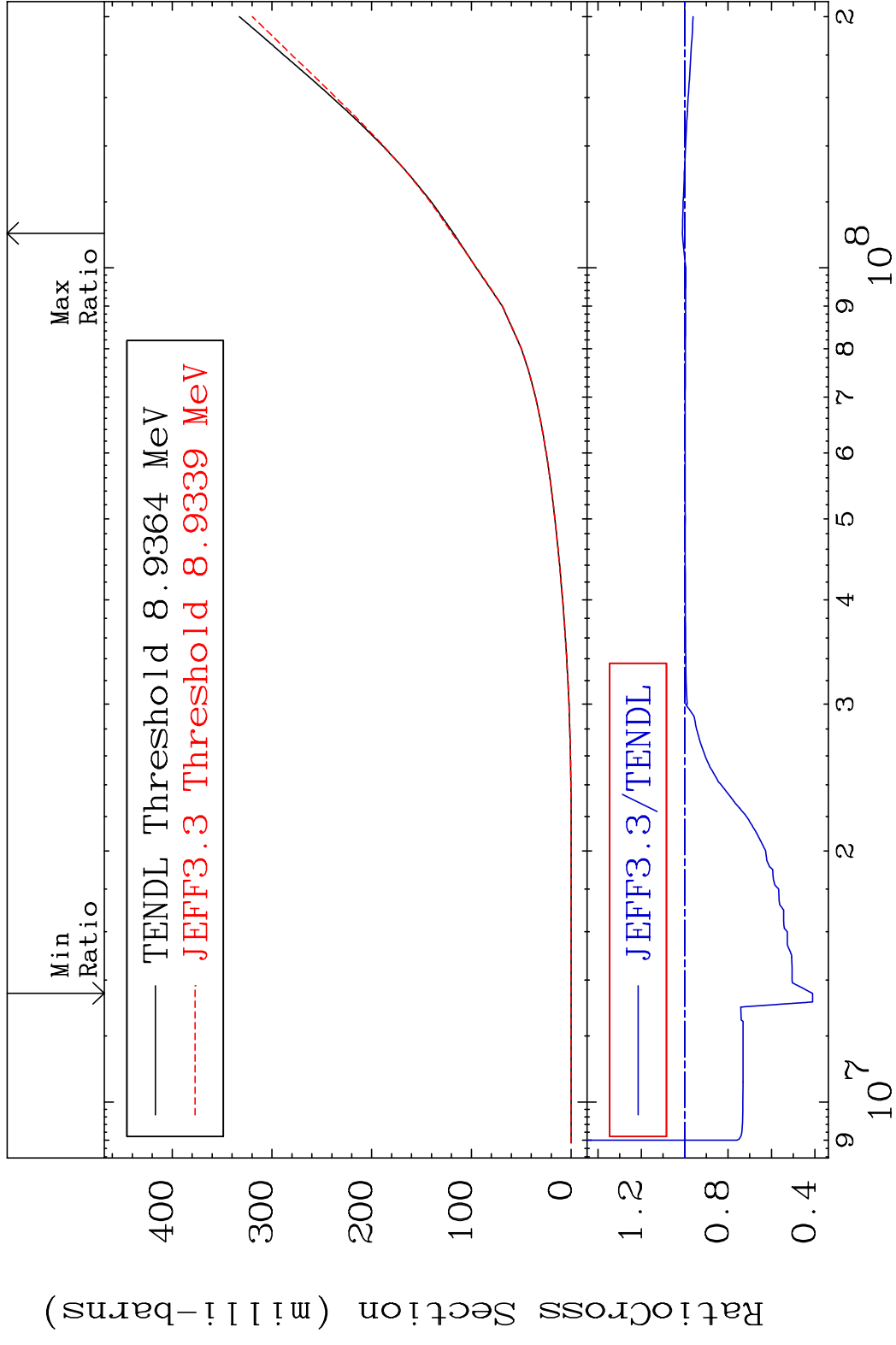
64 Incident Energy (eV) 44-Ru-101

MAT 4440

He-3 Production

44-Ru-101

Cross Section -58.97 To 1.105 %



65

Incident Energy (eV)

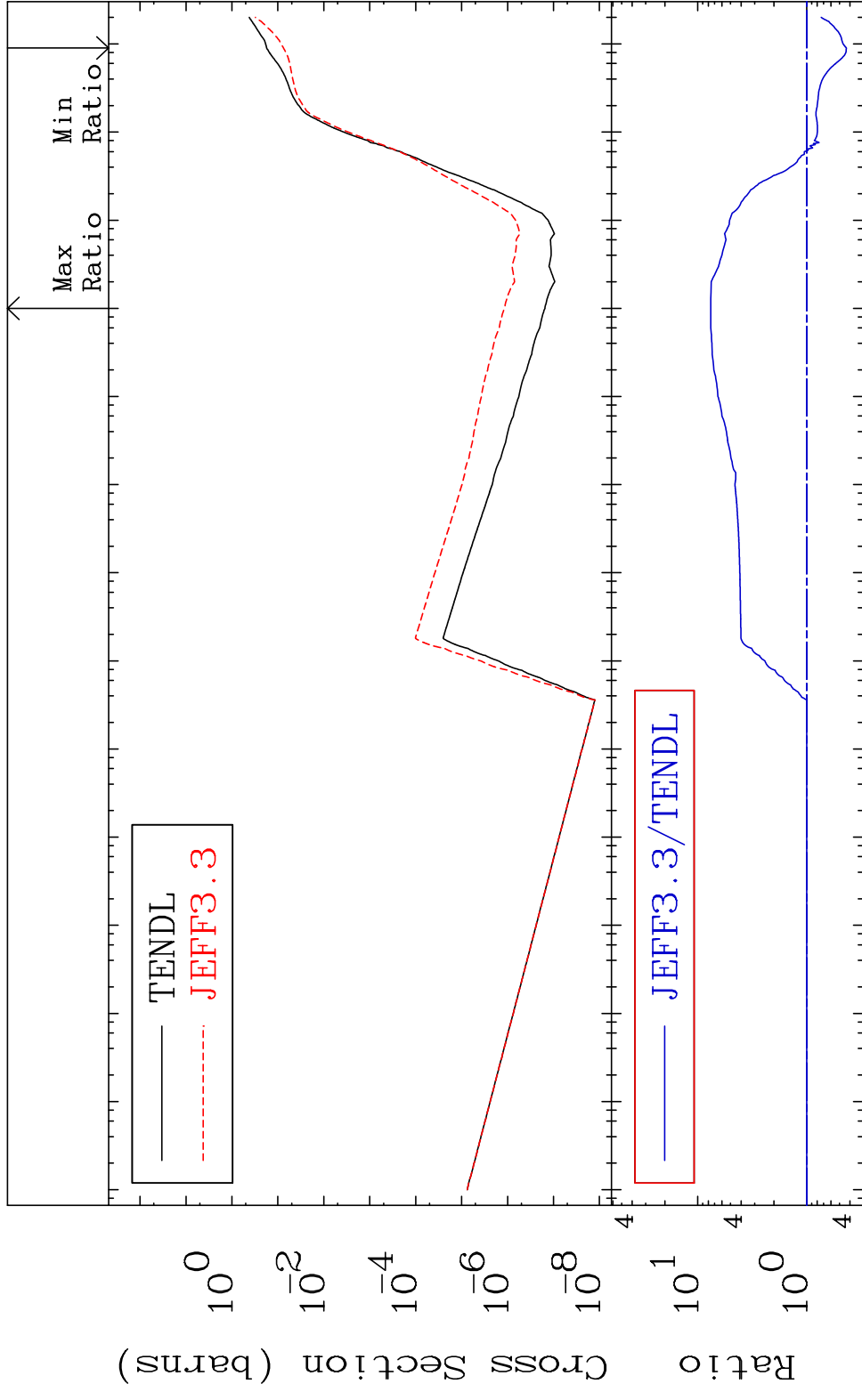
44-Ru-101

MAT 4440

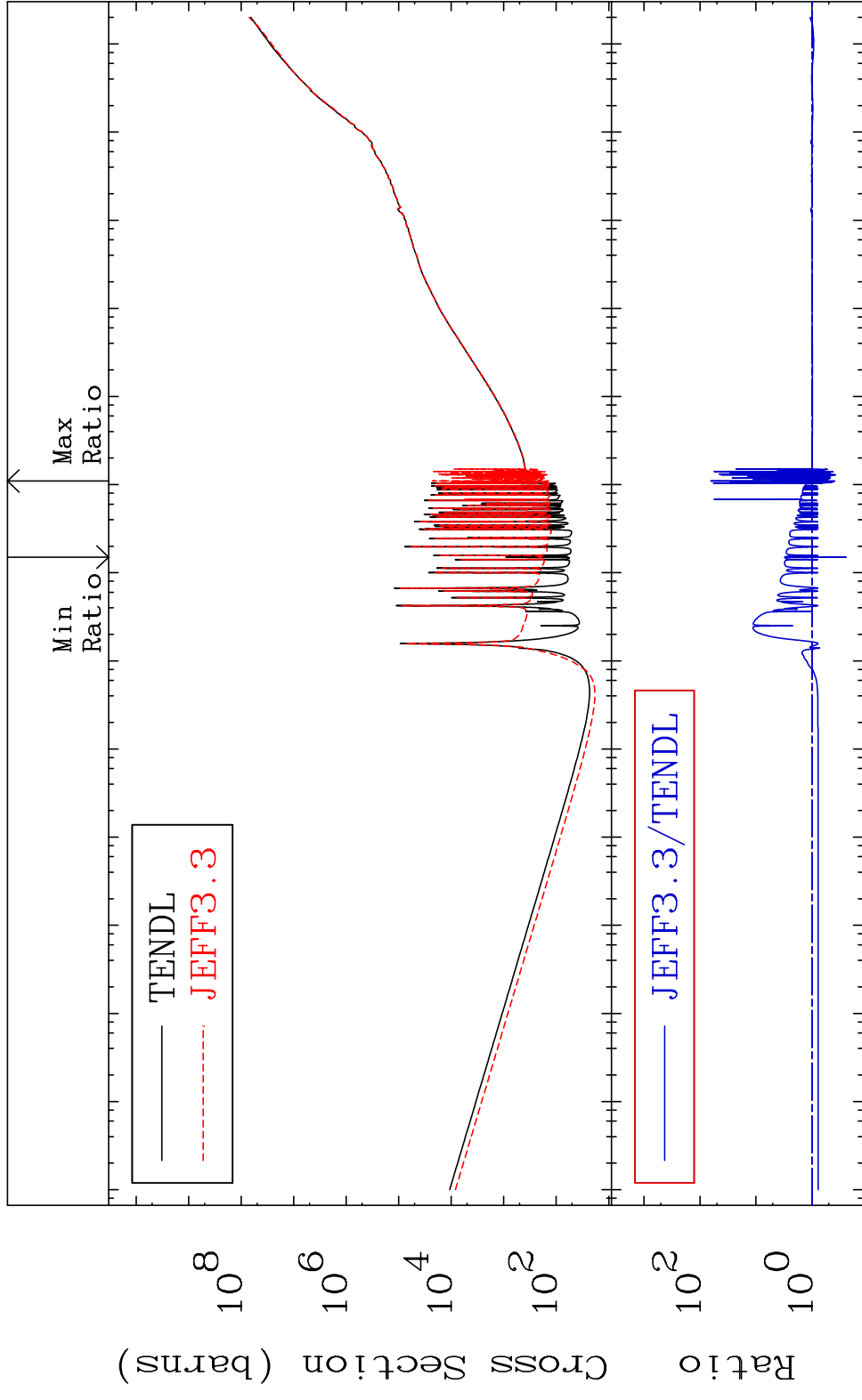
He-4 Production

44-Ru-101

Cross Section -56.72 To 660.4 %



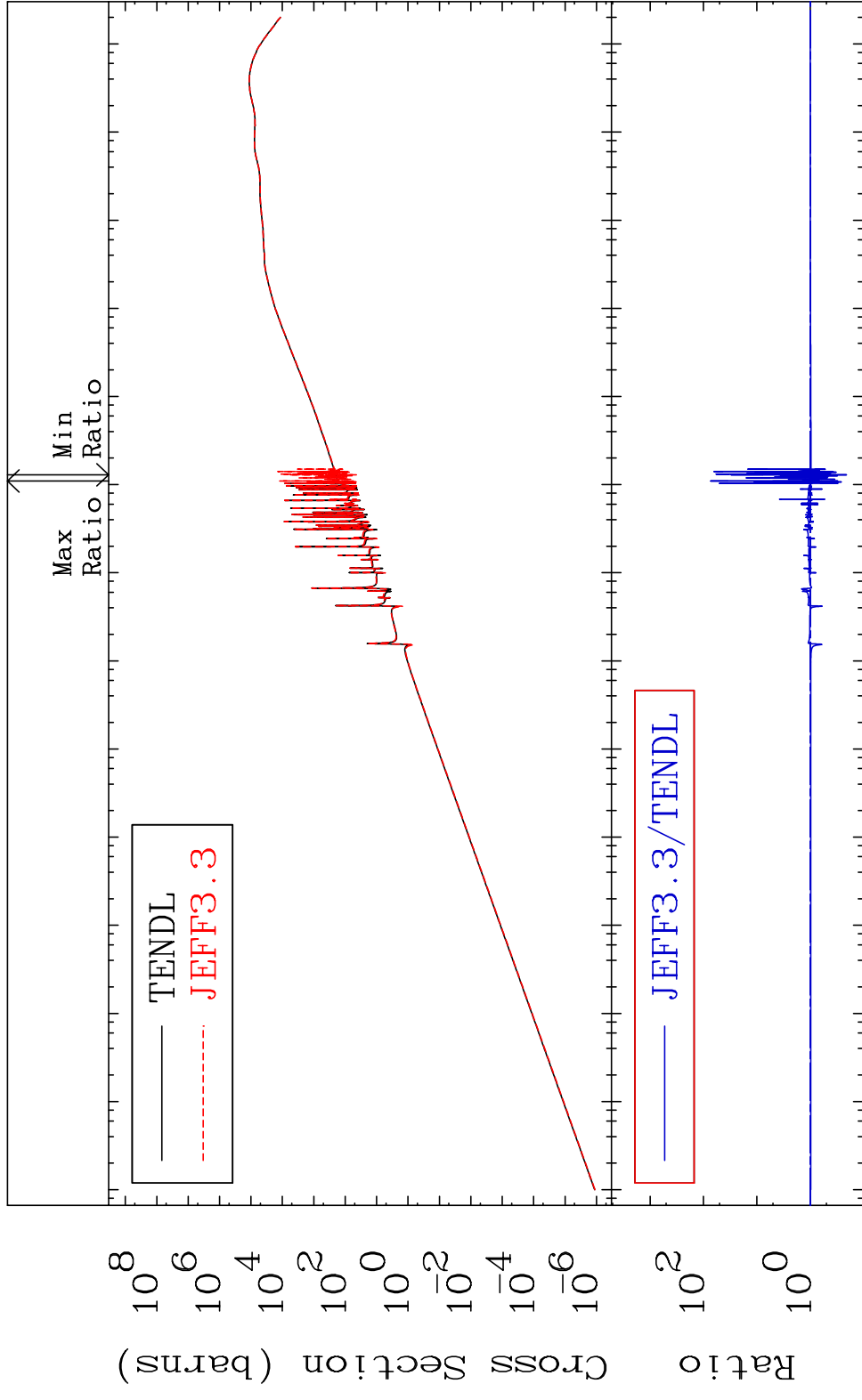
MAT 4440 Kerma total (eV-barns) 44-Ru-101
 Cross Section -75.67 To 6335. %



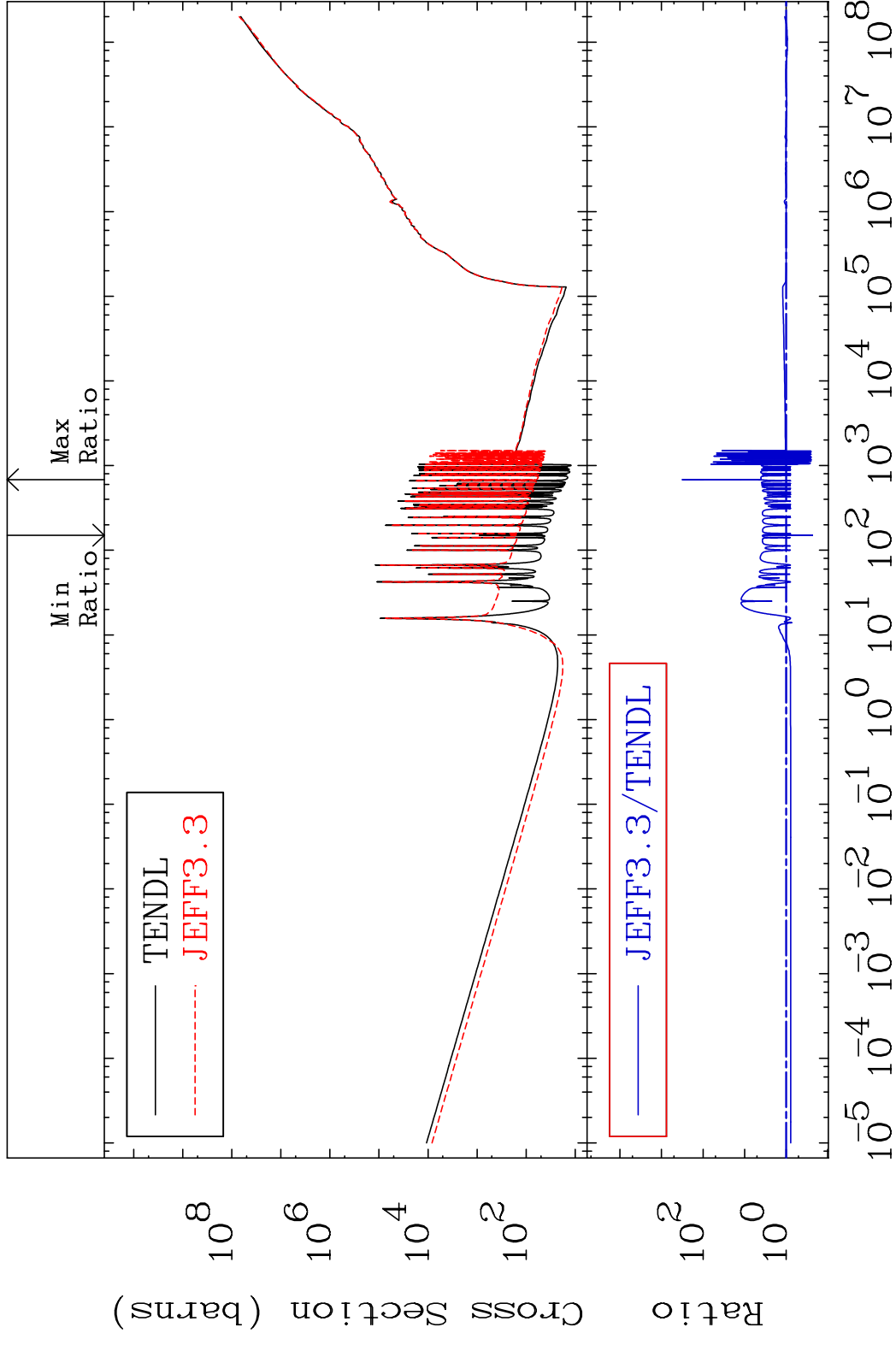
Ratio
 Cross Section (barns)
 Incident Energy (eV)

MAT 4440

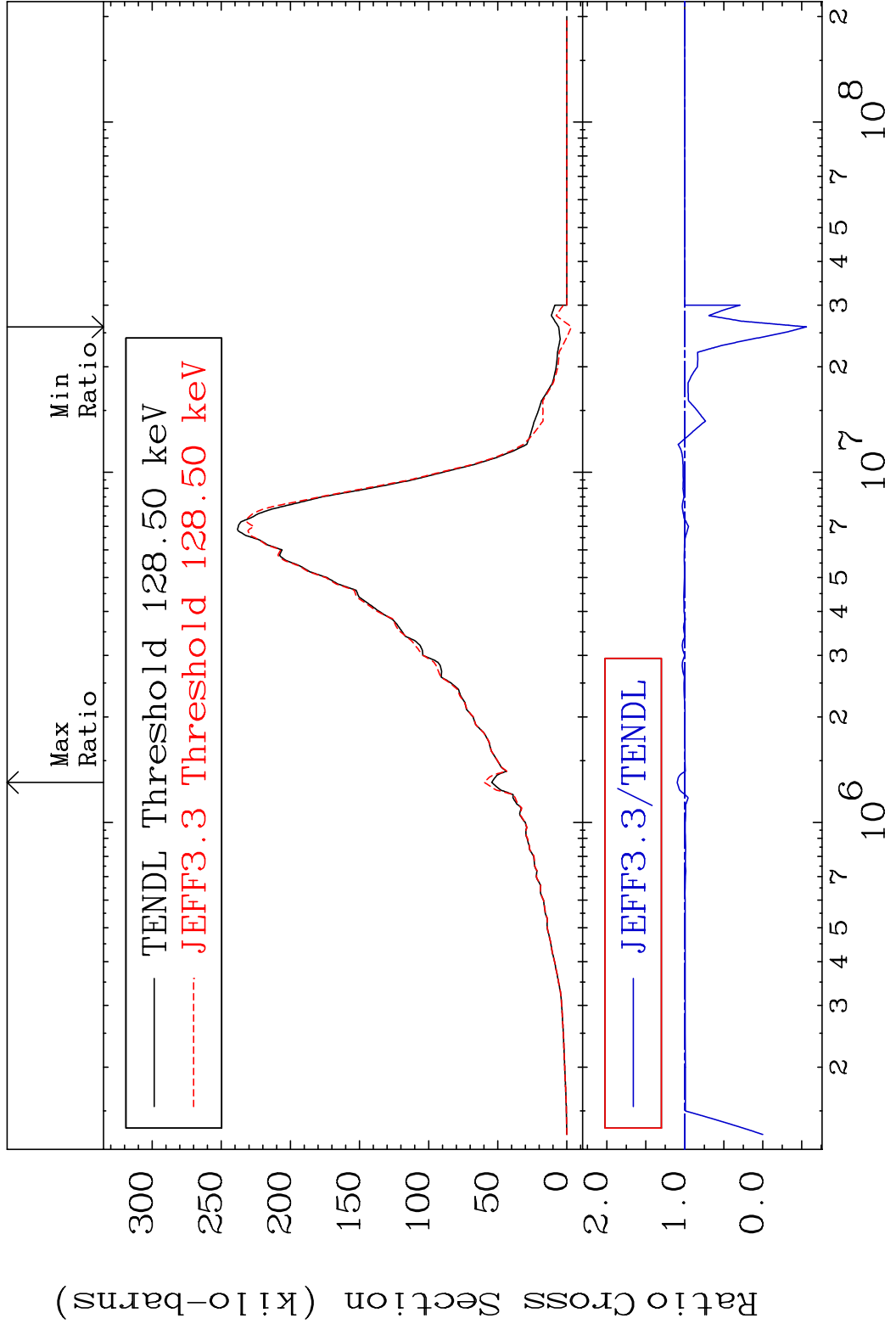
Kerma elastic Cross Section -78.86 To 7224. %
44-Ru-101



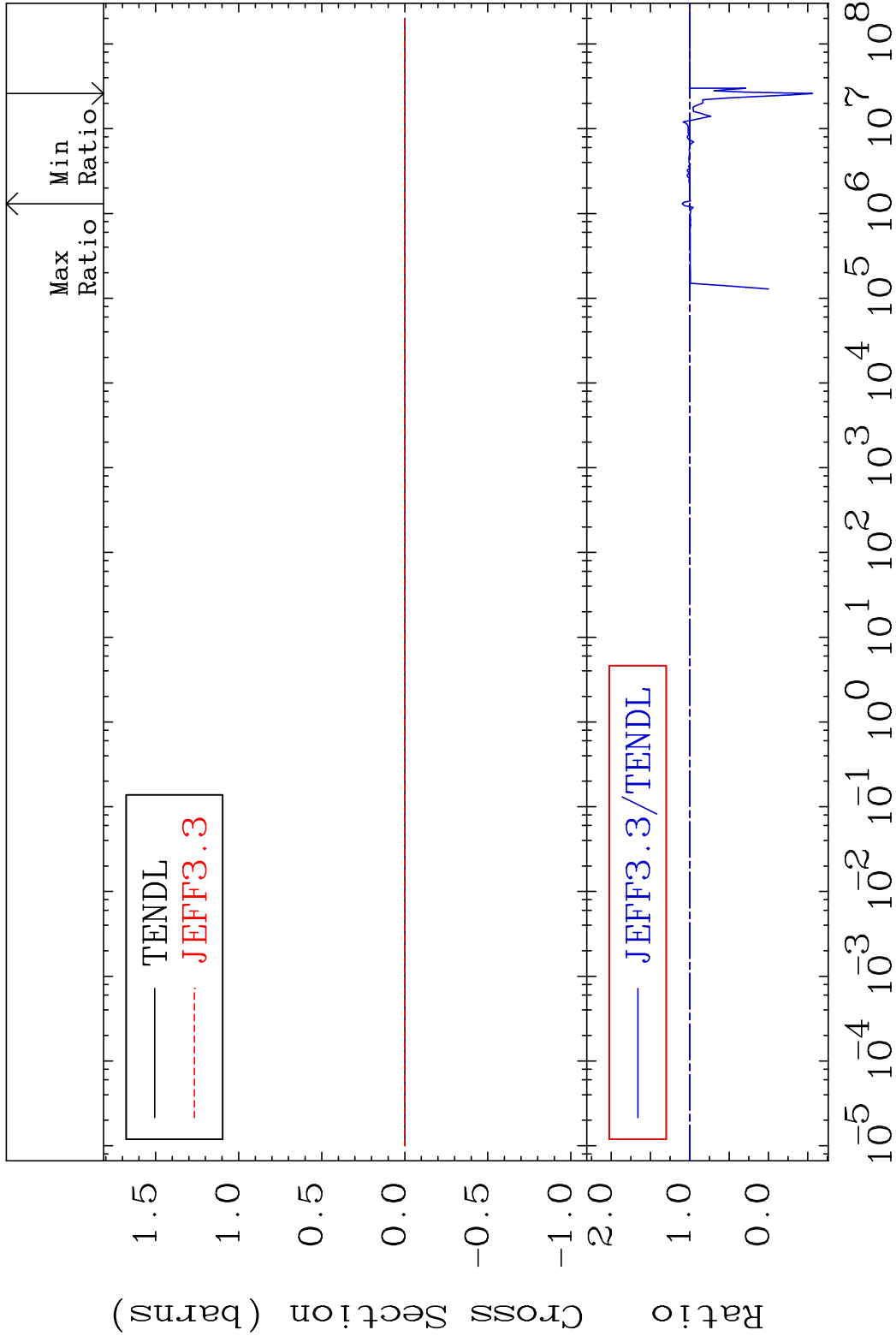
MAT 4440 Kerma non-elastic (all but mt2) 44-Ru-101
 Cross Section -76.98 To 9999. %



MAT 4440 Kerma inelastic (mt51-91) 44-Ru-101
 Cross Section -156.0 To 9.752 %



MAT 4440 Kerma fission (mt18 or mt19-20-21-38)4-Ru-101
 Cross Section -156.0 To 9.752 %

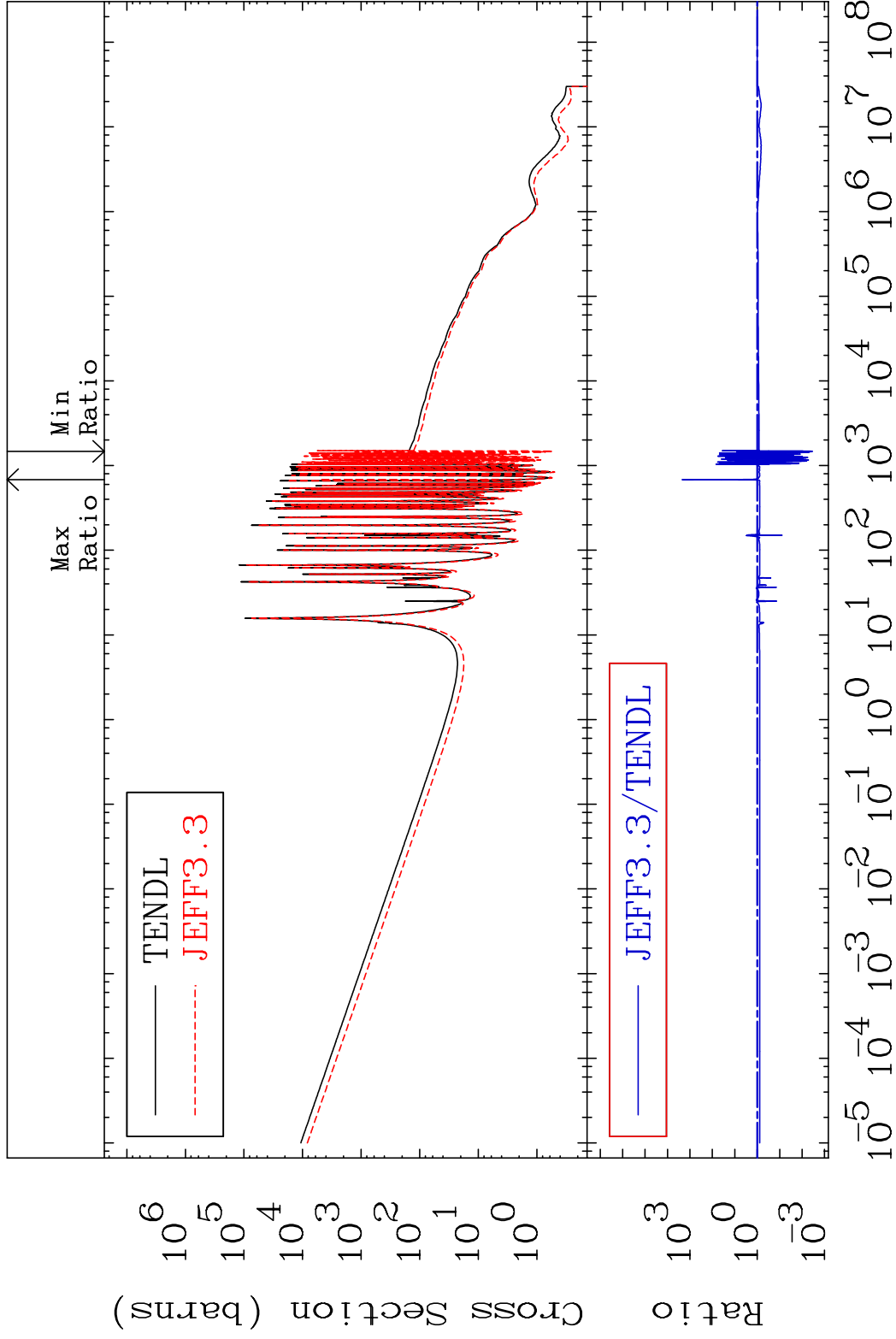


MAT 4440

Kerma capture (mt102)

44-Ru-101

Cross Section -99.66 To 9999. %

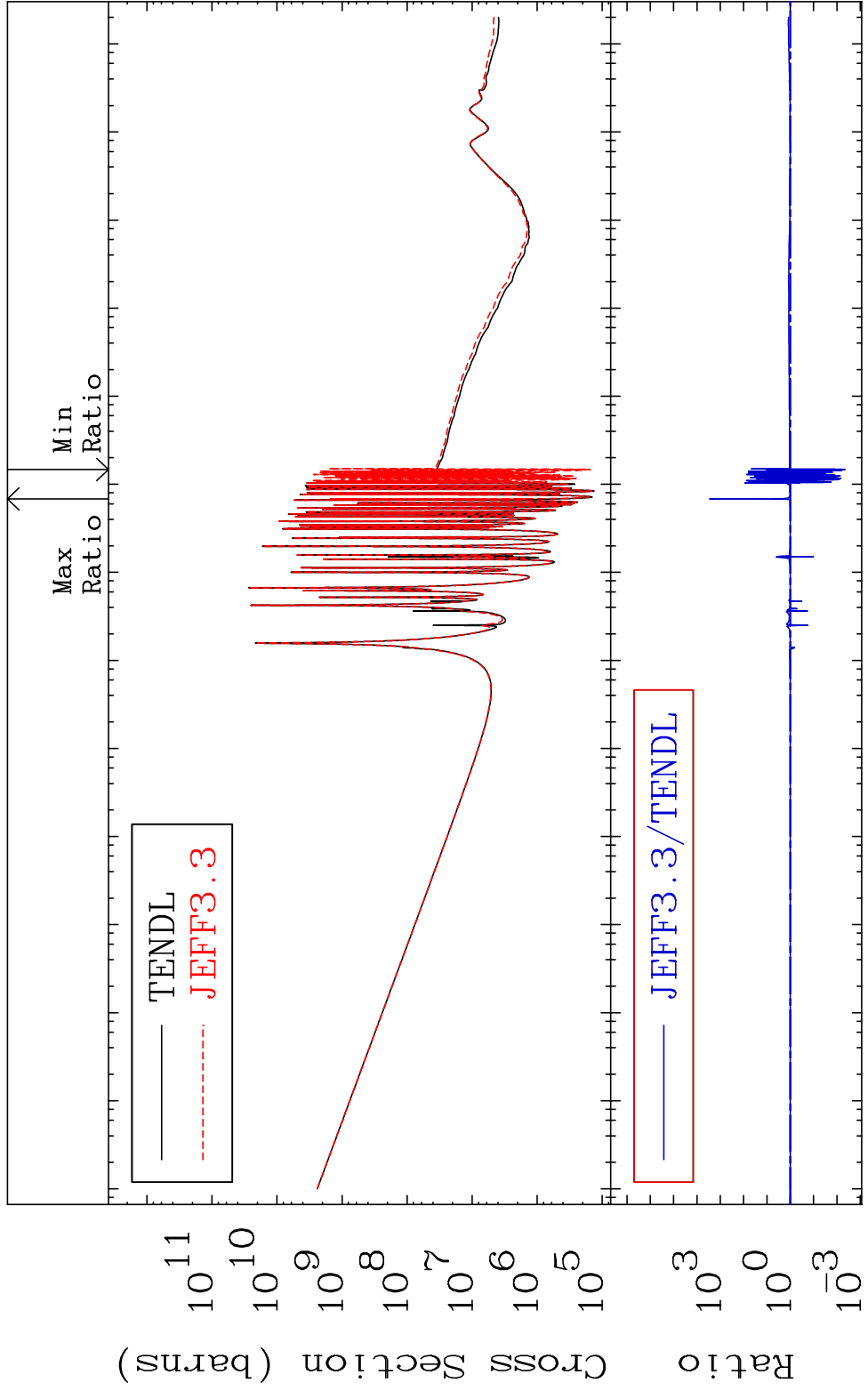


72

Incident Energy (eV)

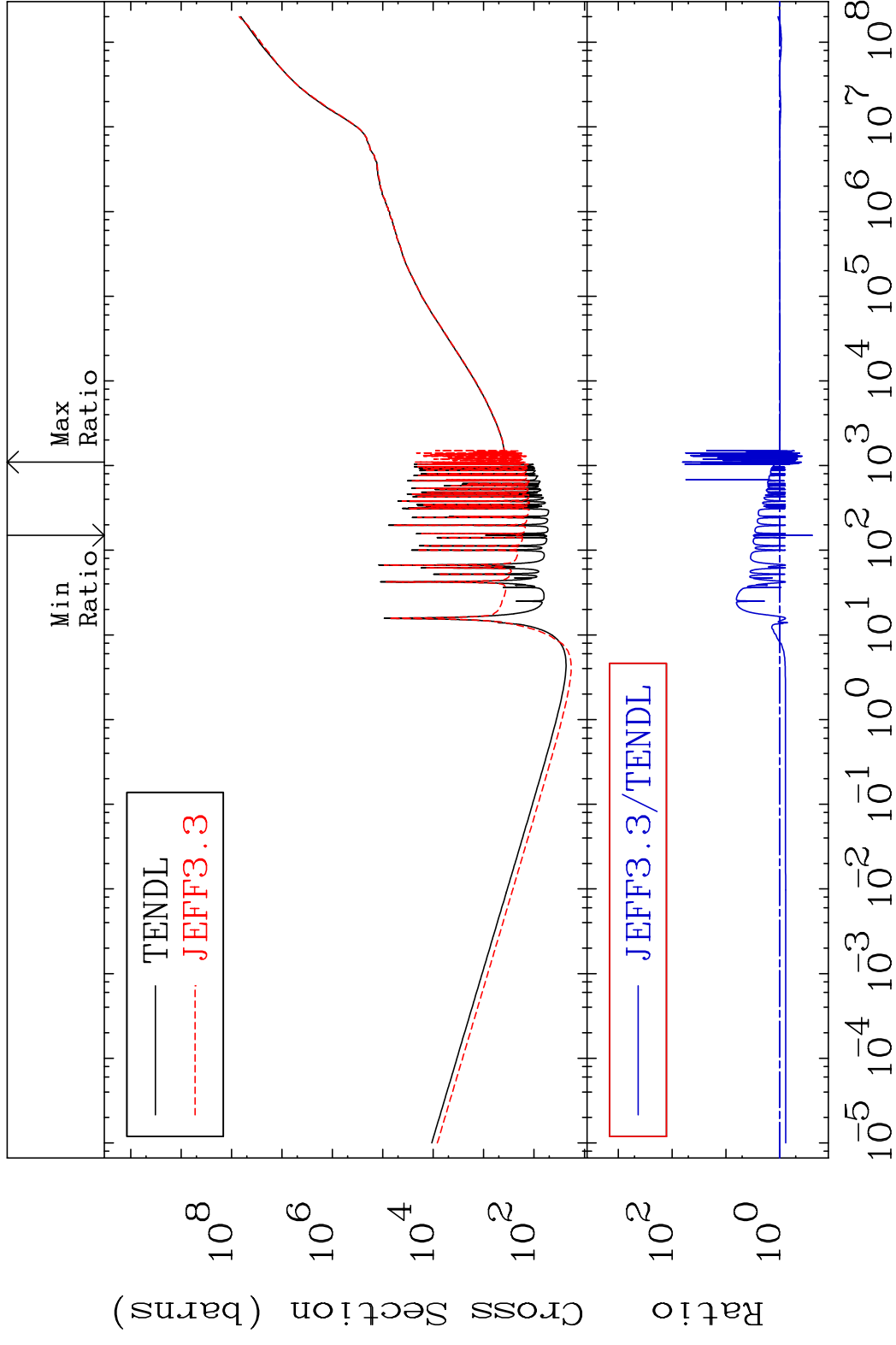
44-Ru-101

MAT 4440 Total photon (eV-barns) 44-Ru-101
 Cross Section -99.56 To 9999. %



73 Incident Energy (eV) 44-Ru-101

MAT 4440 Total kinematic kerma (high limit) 44-Ru-101
 Cross Section -75.56 To 6334. %

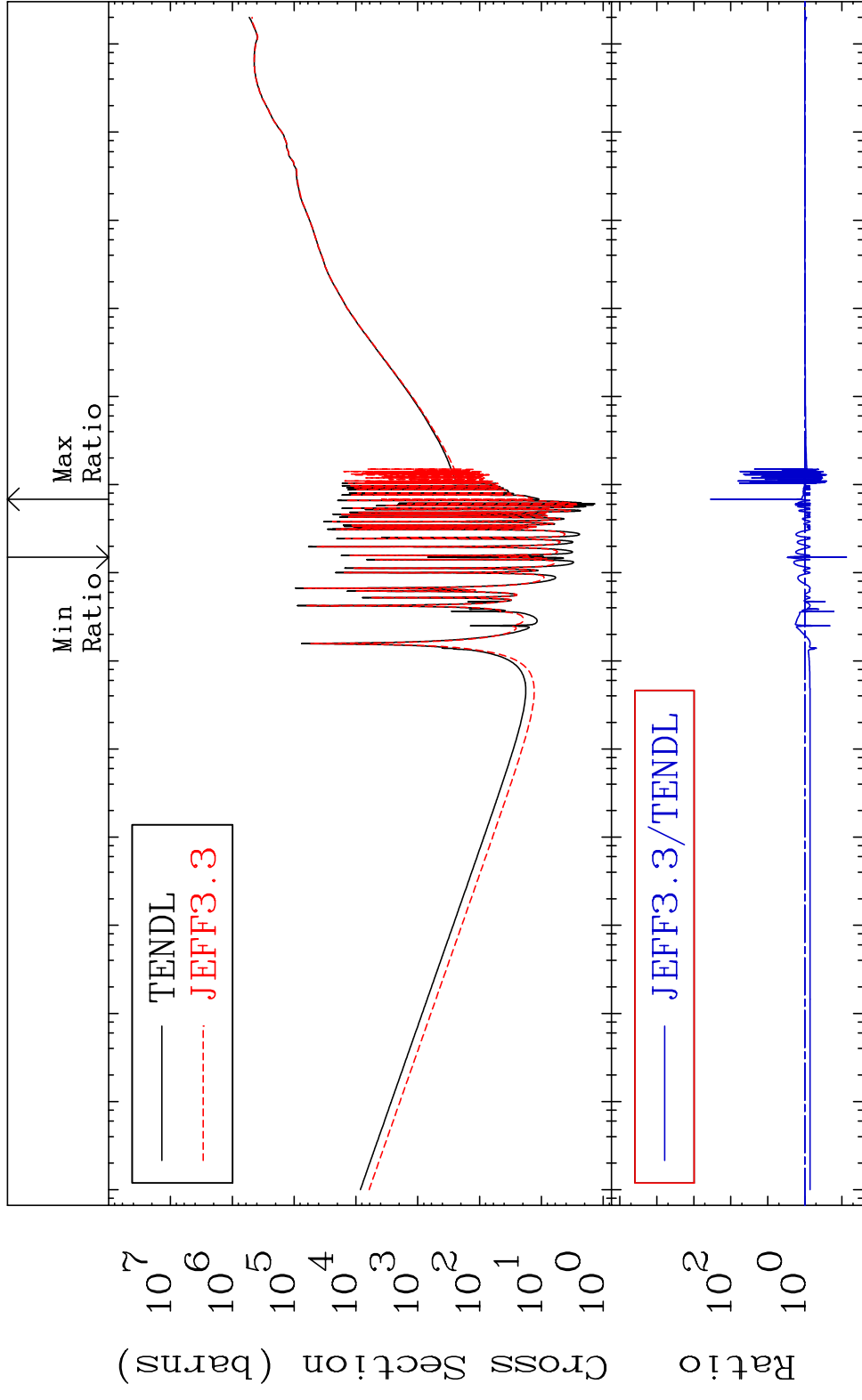


MAT 4440

Dpa total (eV-barns)

44-Ru-101

Cross Section -92.41 To 9999. %



75

Incident Energy (eV)

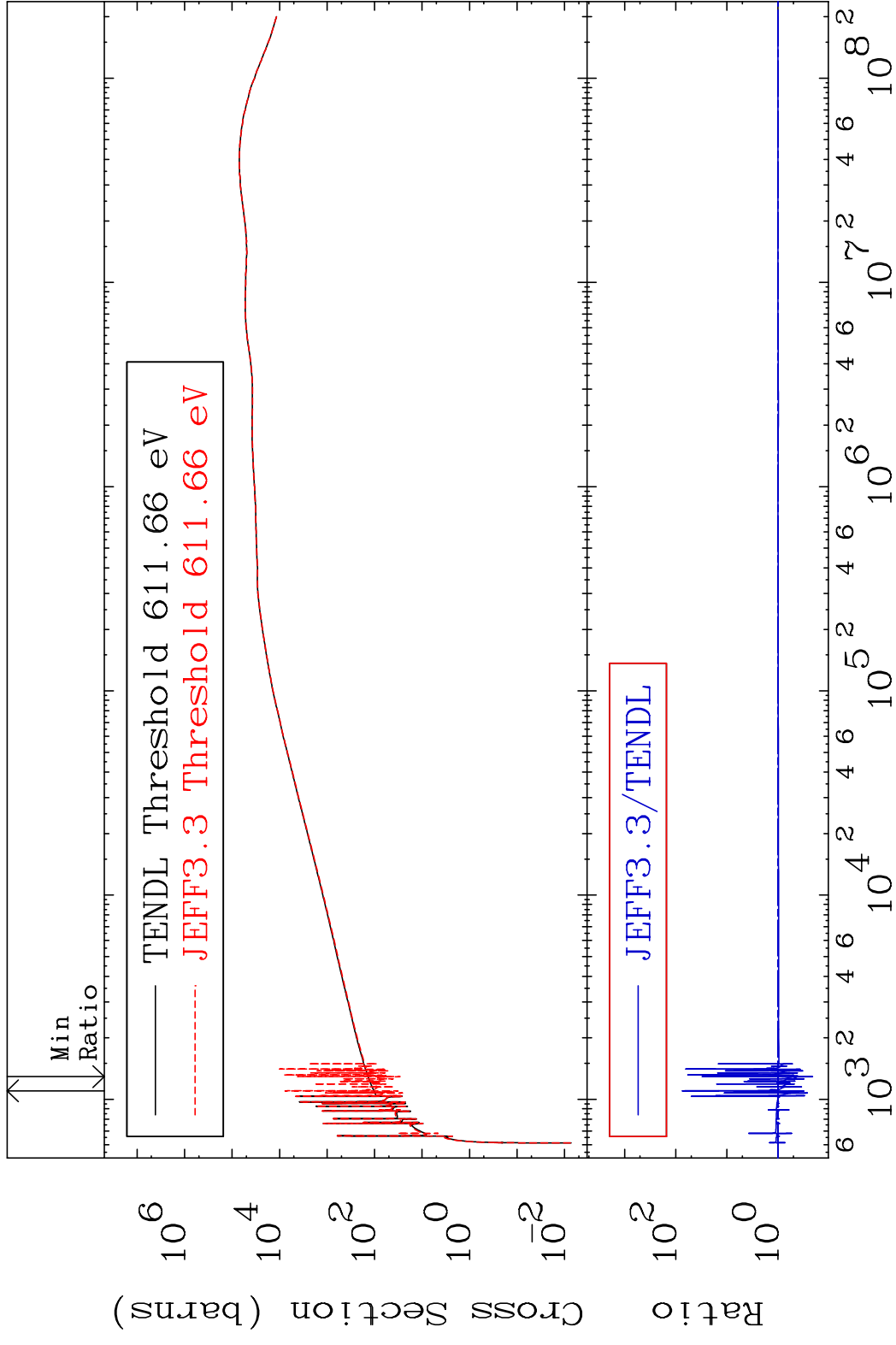
44-Ru-101

MAT 4440

Dpa elastic (mt2)

44-Ru-101

Cross Section -78.86 To 7339. %



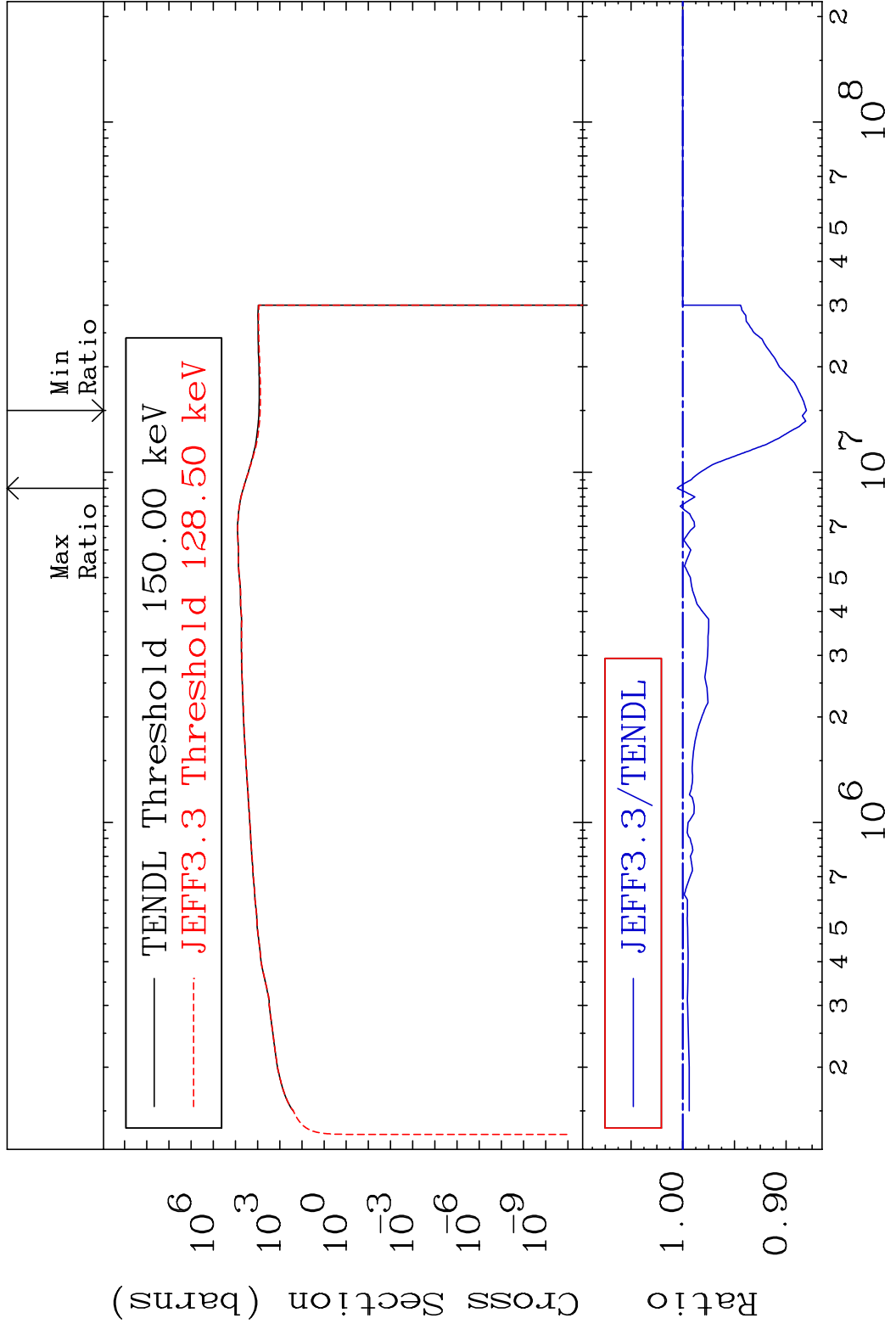
76

Incident Energy (eV)

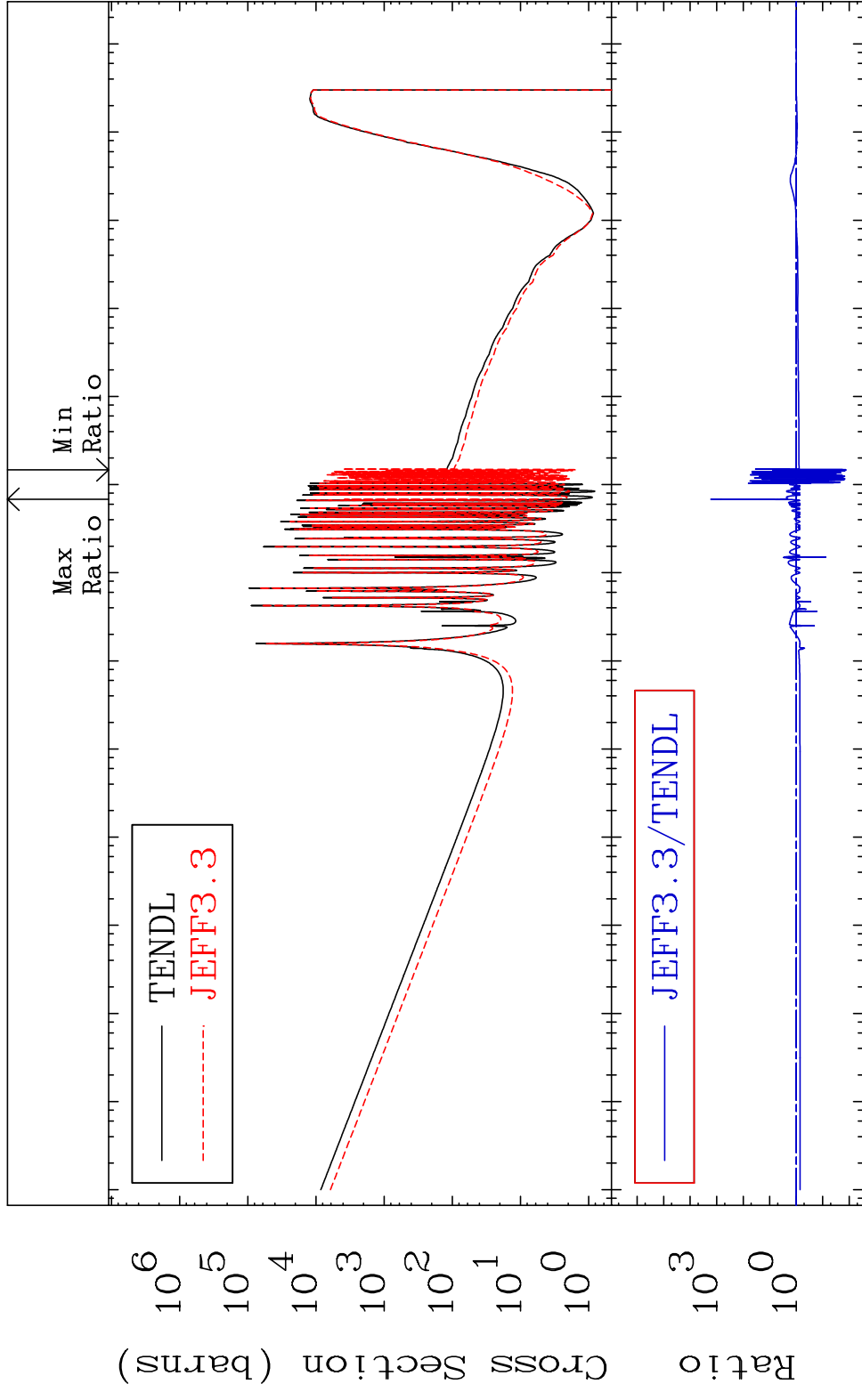
44-Ru-101

MAT 4440

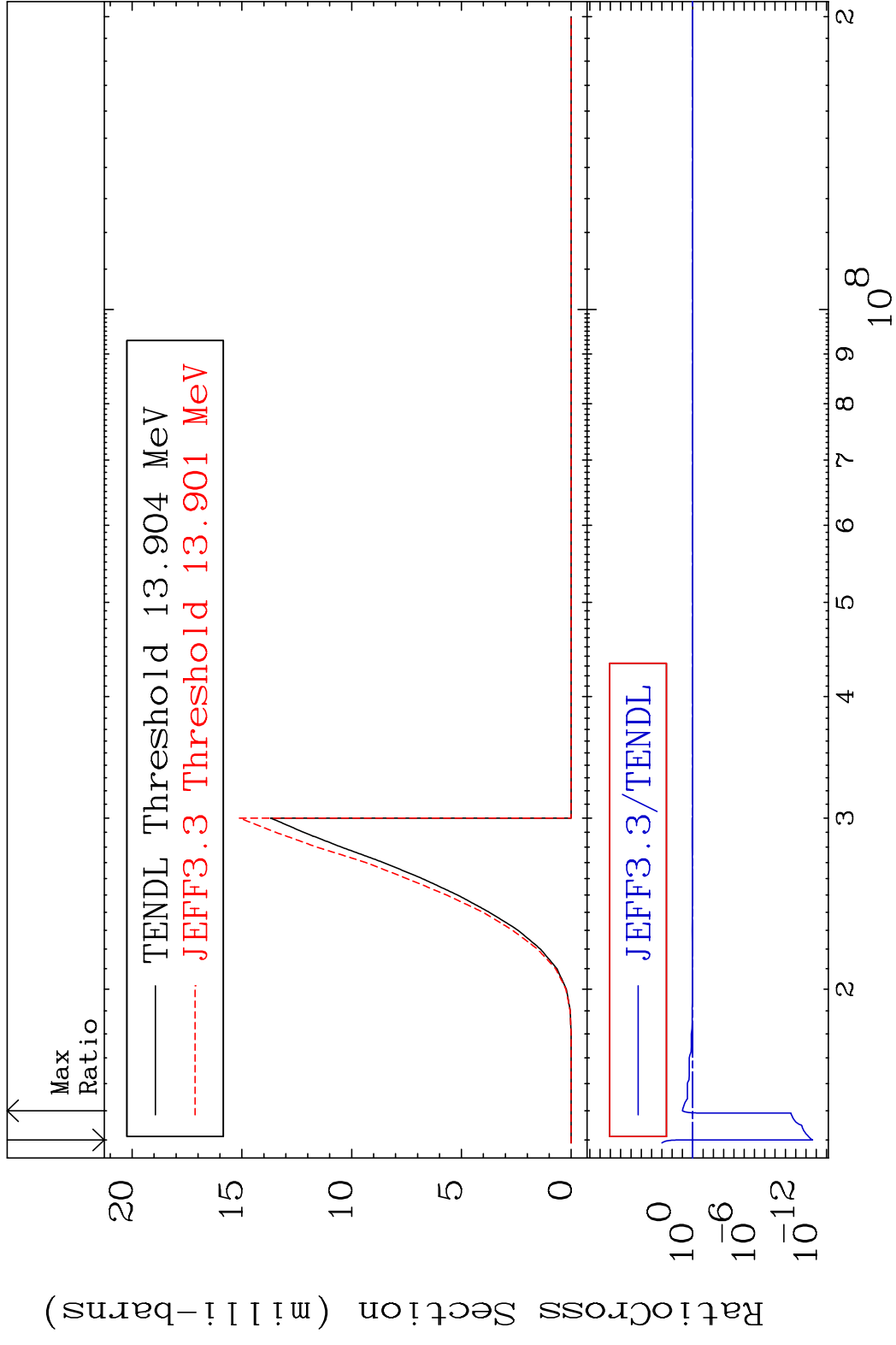
Dpa inelastic (mt51-91) 44-Ru-101
Cross Section -11.96 To 0.539 %



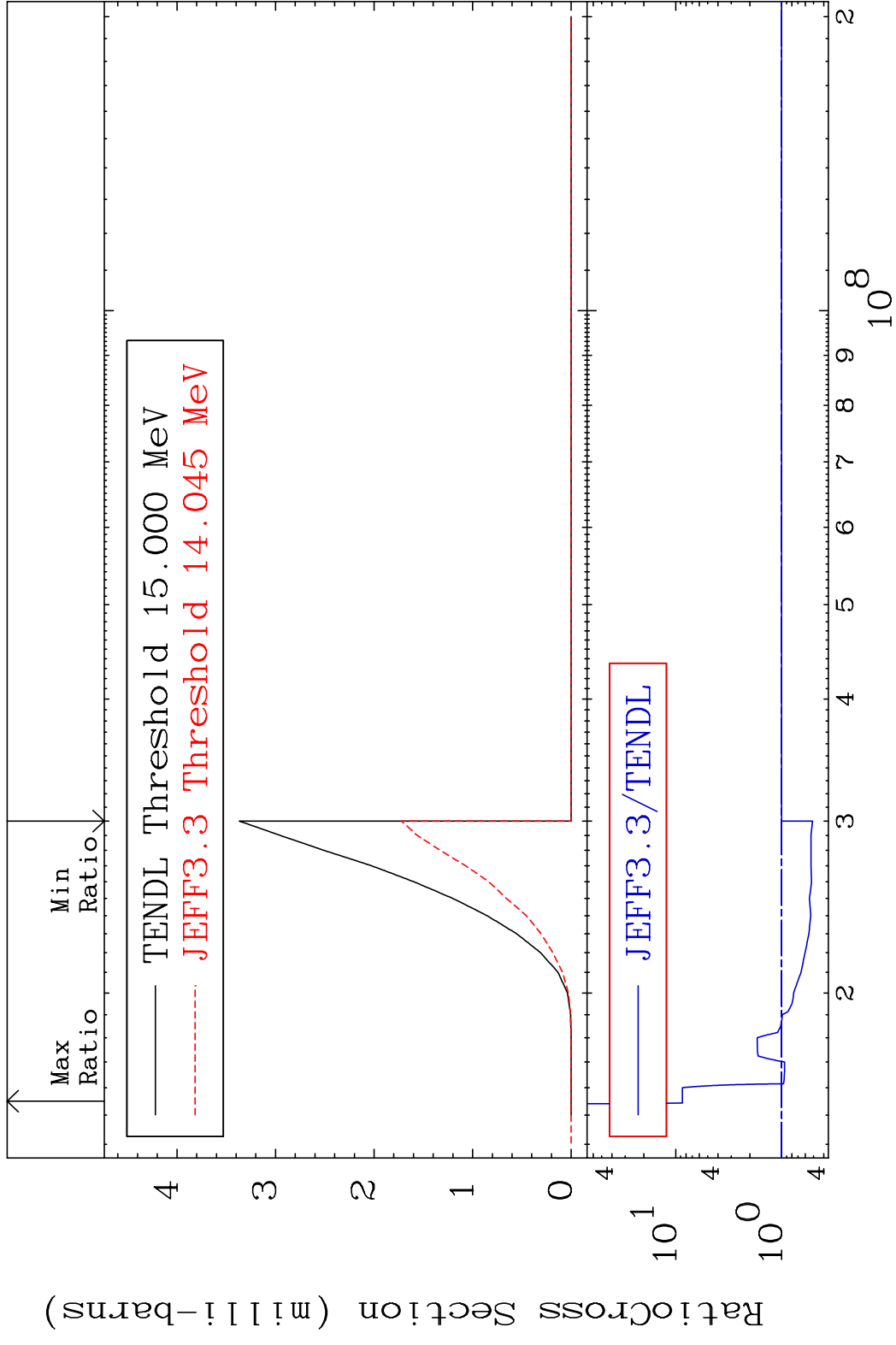
MAT 4440 Dpa disappearance (mt102 -120) 44-Ru-101
 Cross Section -98.71 To 9999. %

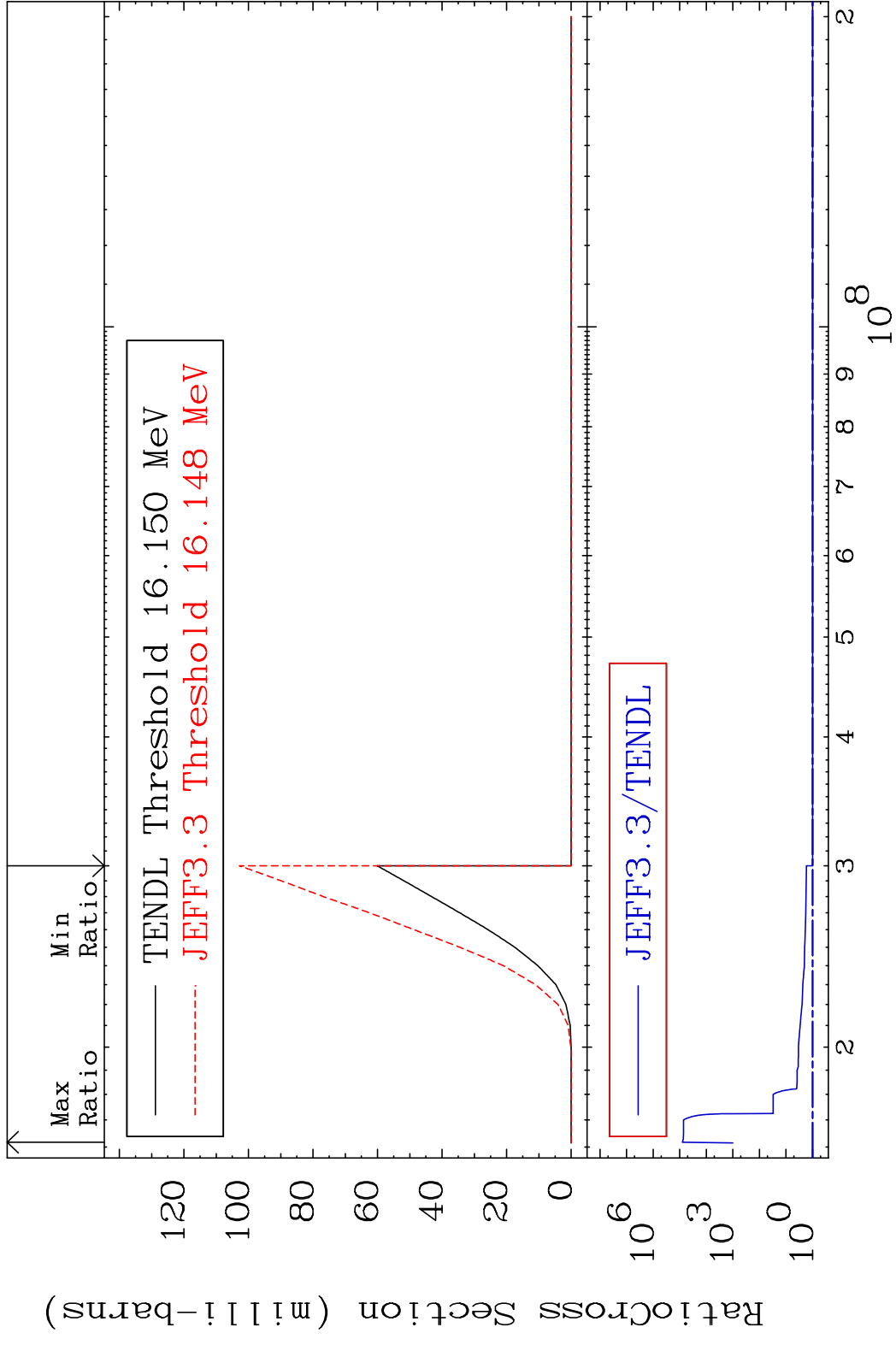


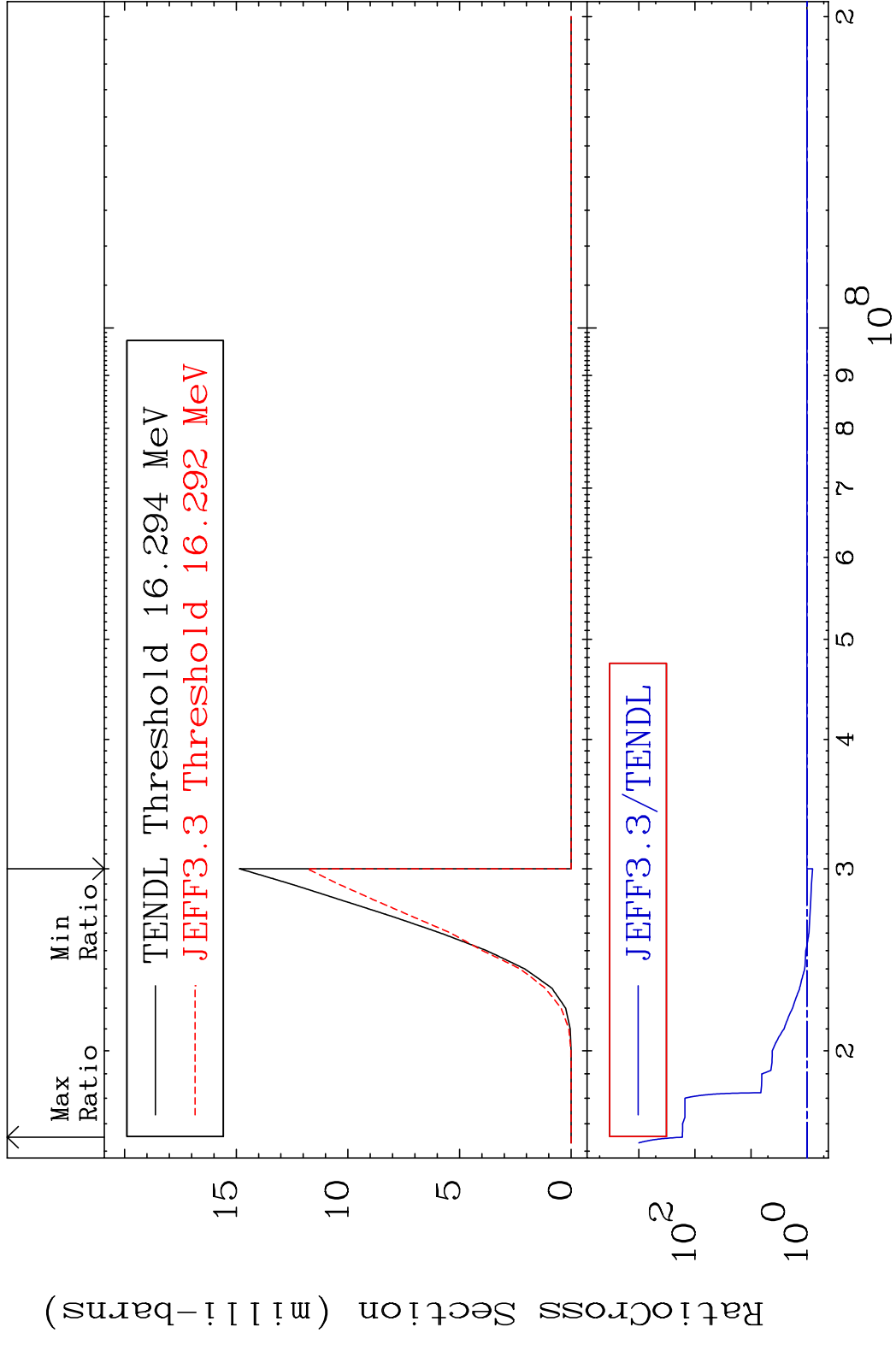
MAT 4440 (n, n') d:43-Tc-99g 44-Ru-101
 Radionuclide Production Cross Section 180.01 dth 922.9 %



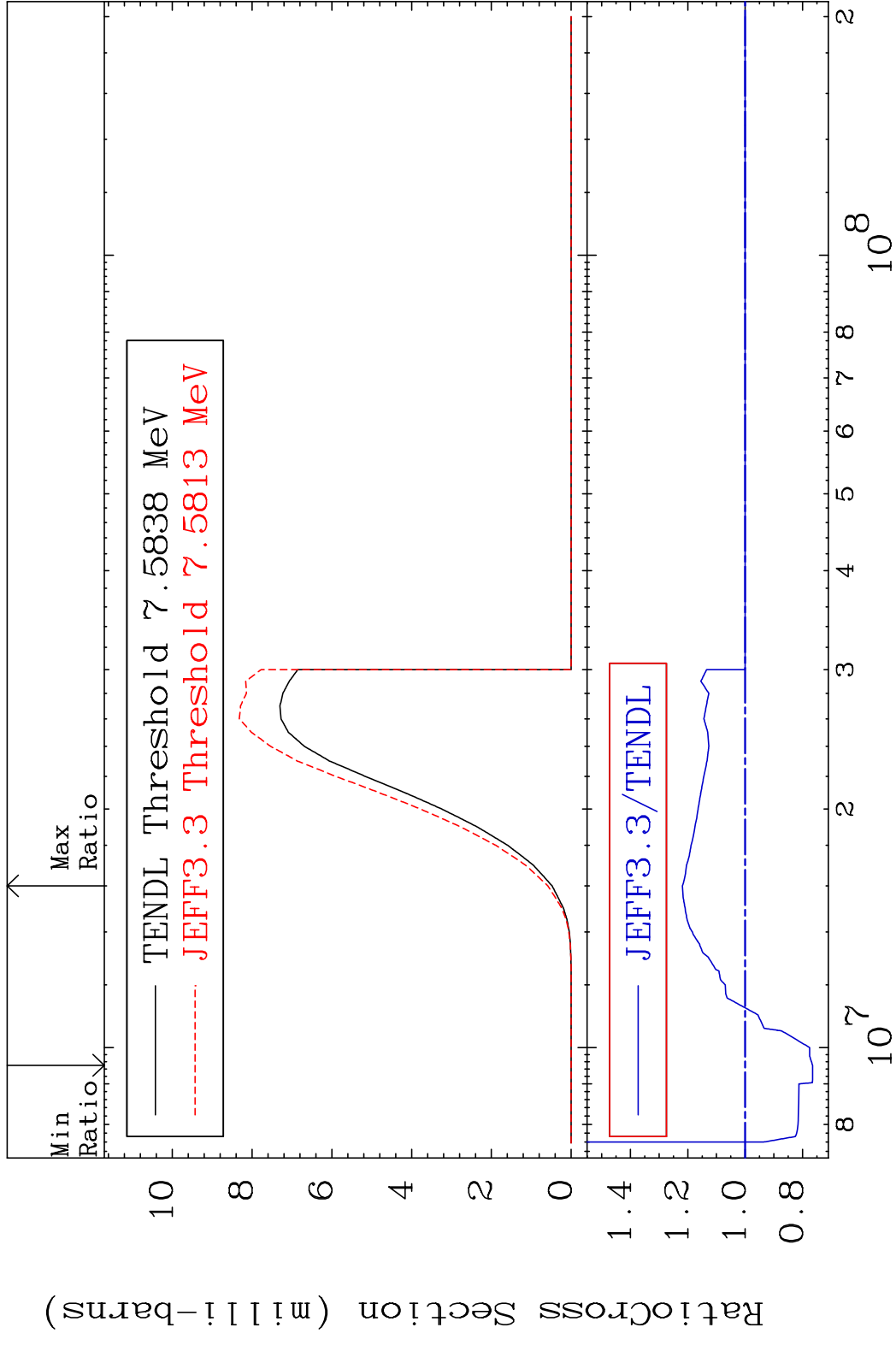
MAT 4440 (n, n') d:43-Tc-99m2 44-Ru-101
 Radionuclide Production Cross Section 48.65 dth 765.0 %







MAT 4440 (n, t): 43-Tc-99g 44-Ru-101
 Radionuclide Production Cross Section 21.89 %



MAT 4440 (n,t):43-Tc-99m2 44-Ru-101
 Radionuclide Production Cross Section 0.000 %

