

Program Complot
(Version 2021-1)

by

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(Present Contact Information)

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U.S.A.

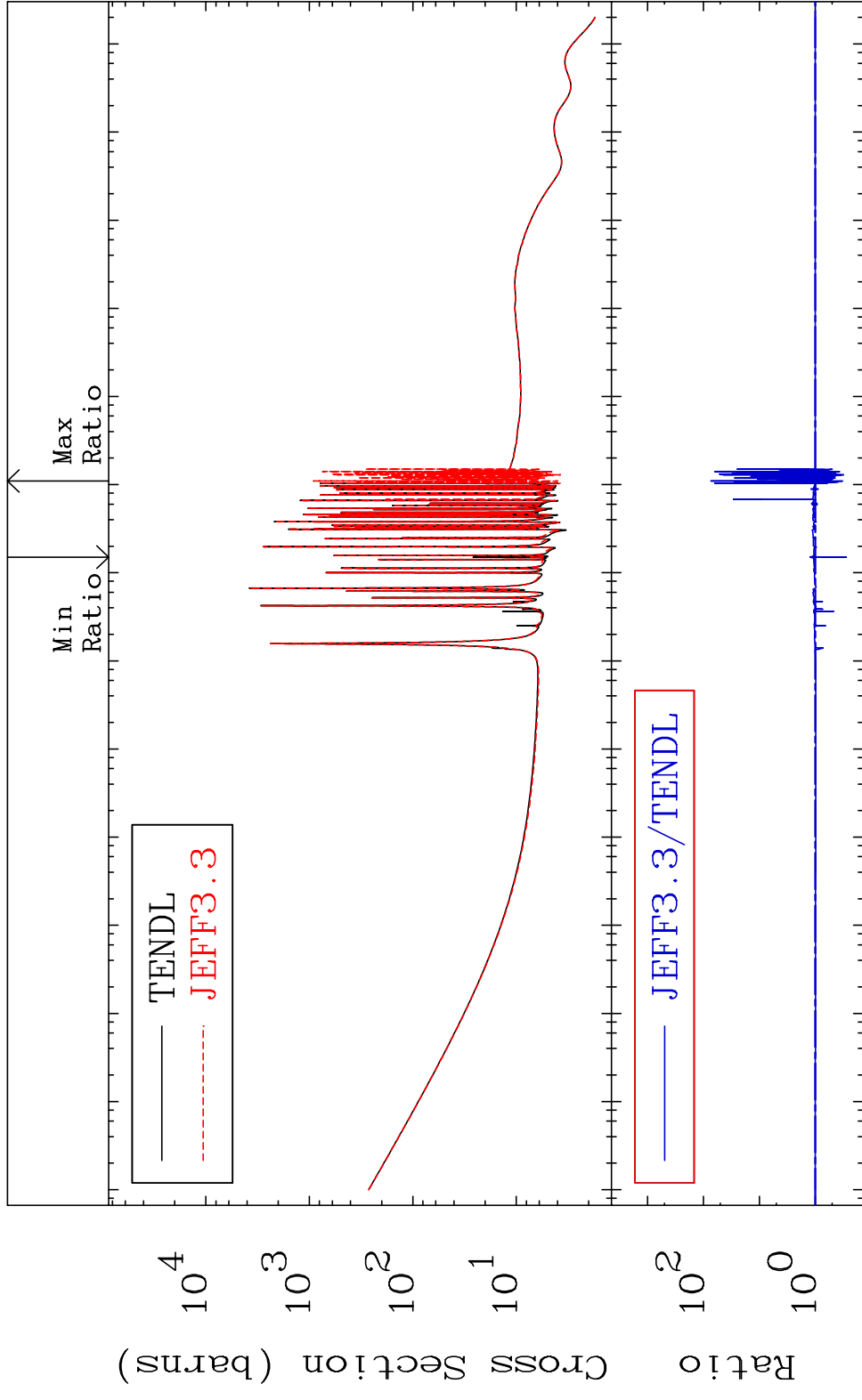
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 4440

Total 44-Ru-101
Cross Section -72.13 To 7325. %



1

Incident Energy (eV)

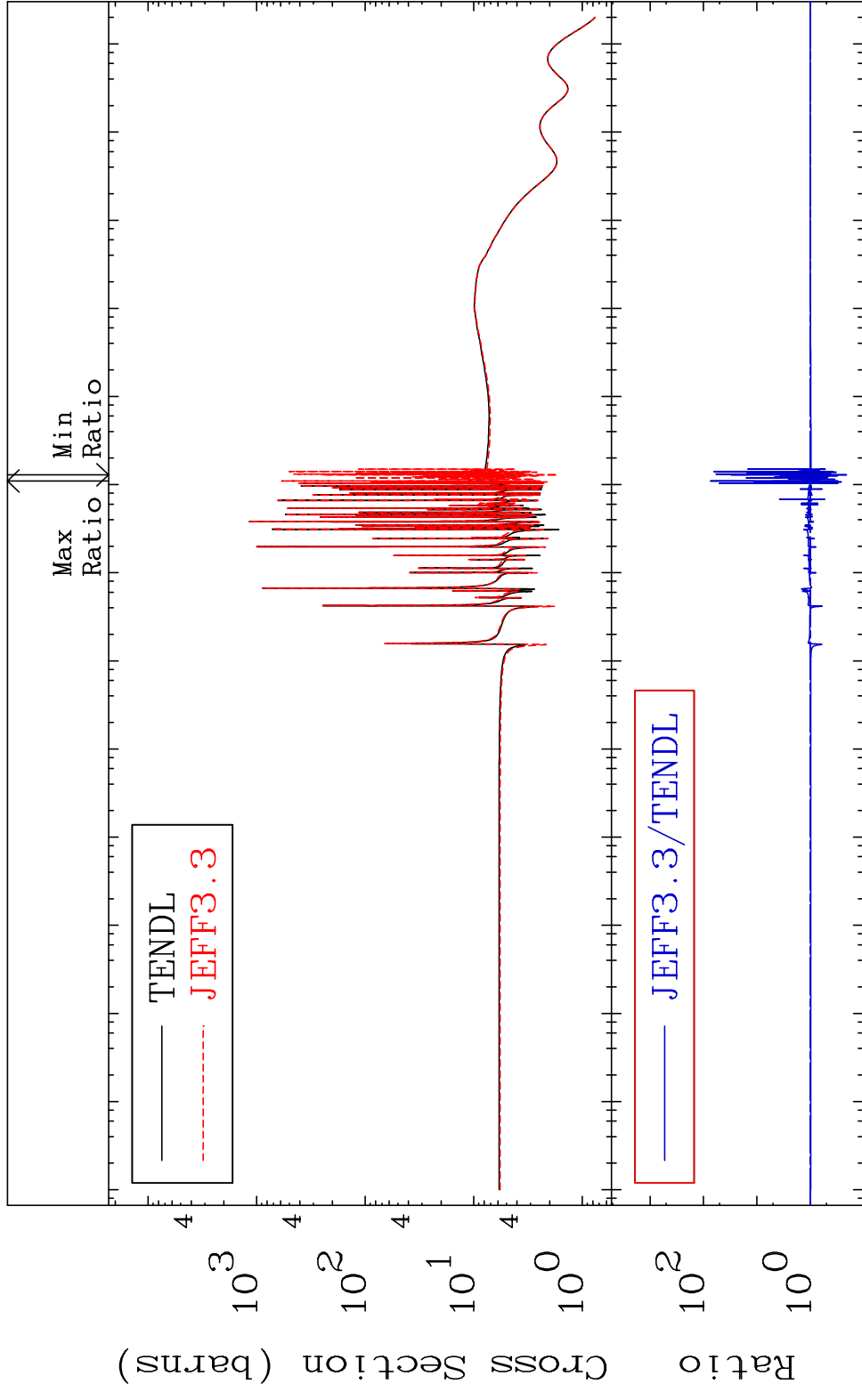
44-Ru-101

MAT 4440

Elastic

44-Ru-101

Cross Section -78.86 To 7221. %

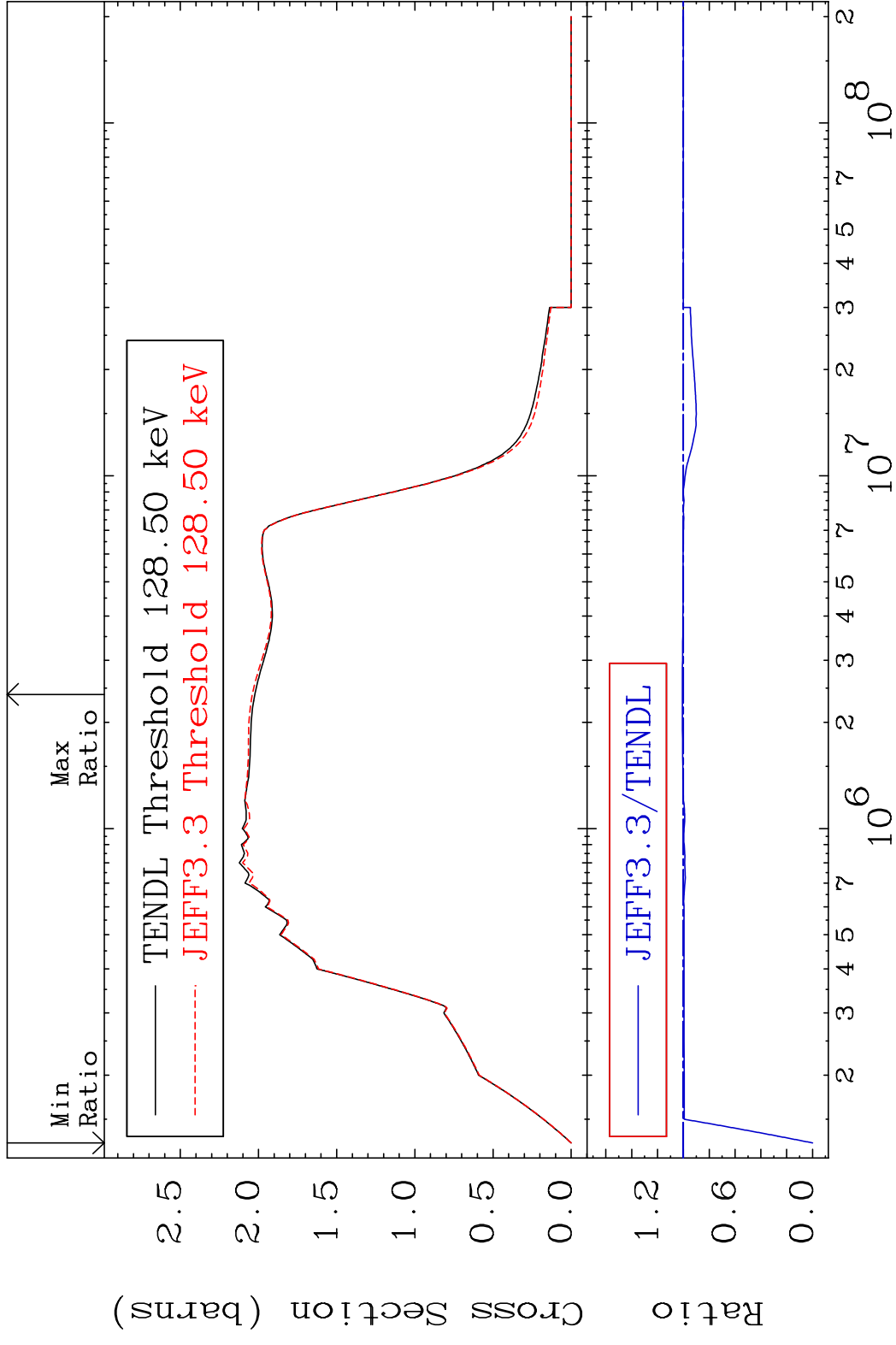


2

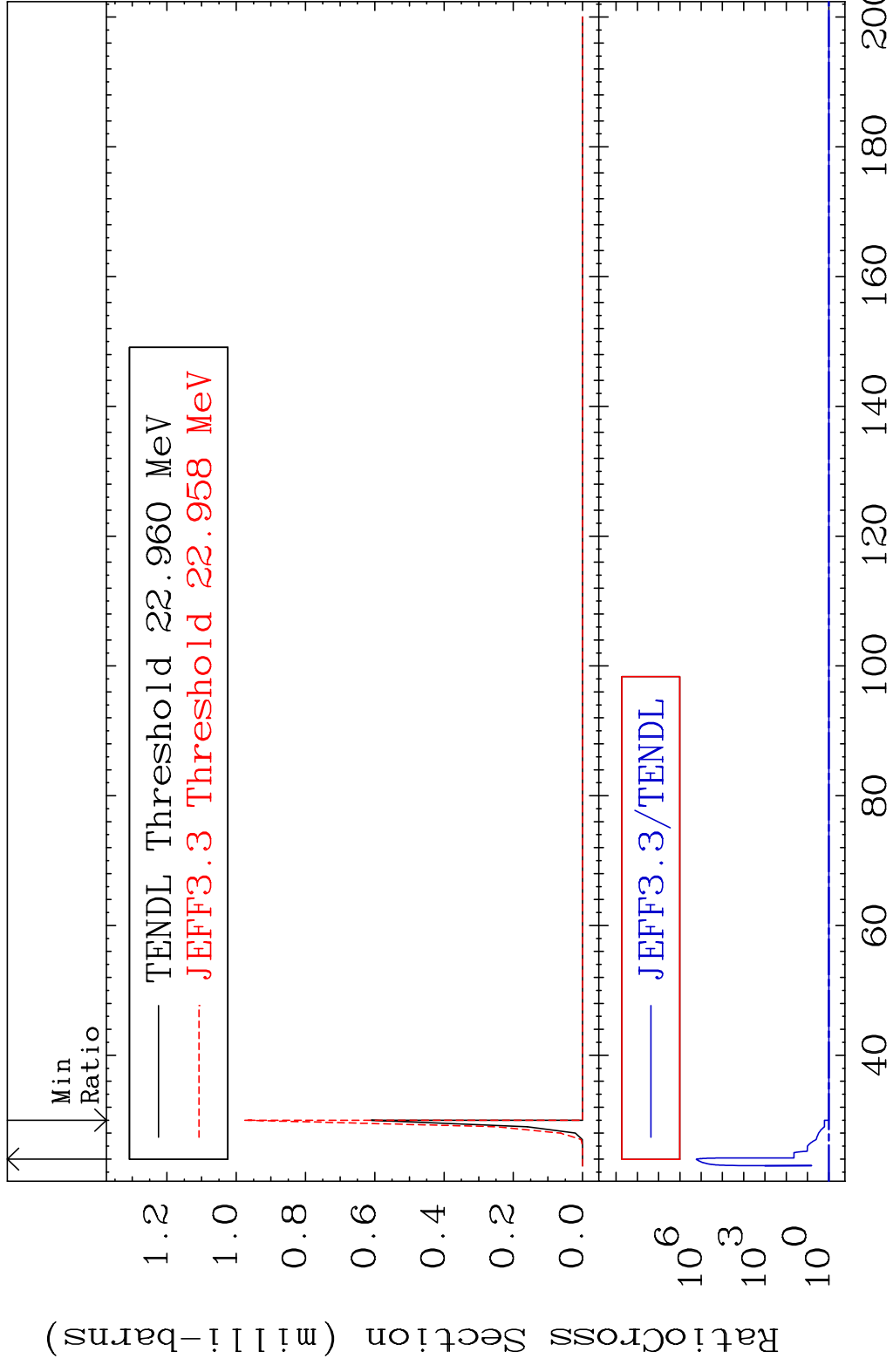
Incident Energy (eV)

44-Ru-101

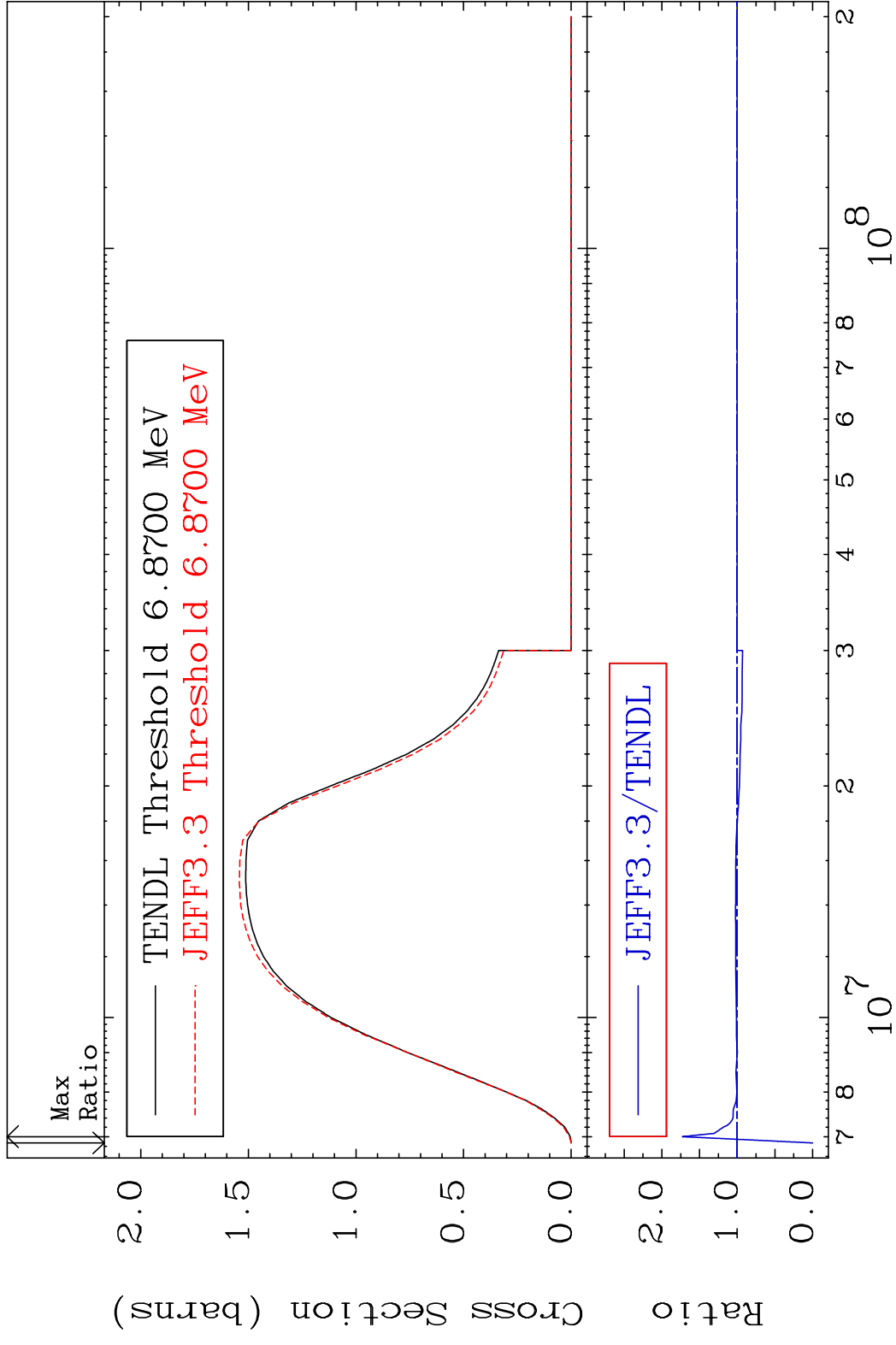
MAT 4440 Inelastic 44-Ru-101
 Cross Section -100.0 To 0.792 %



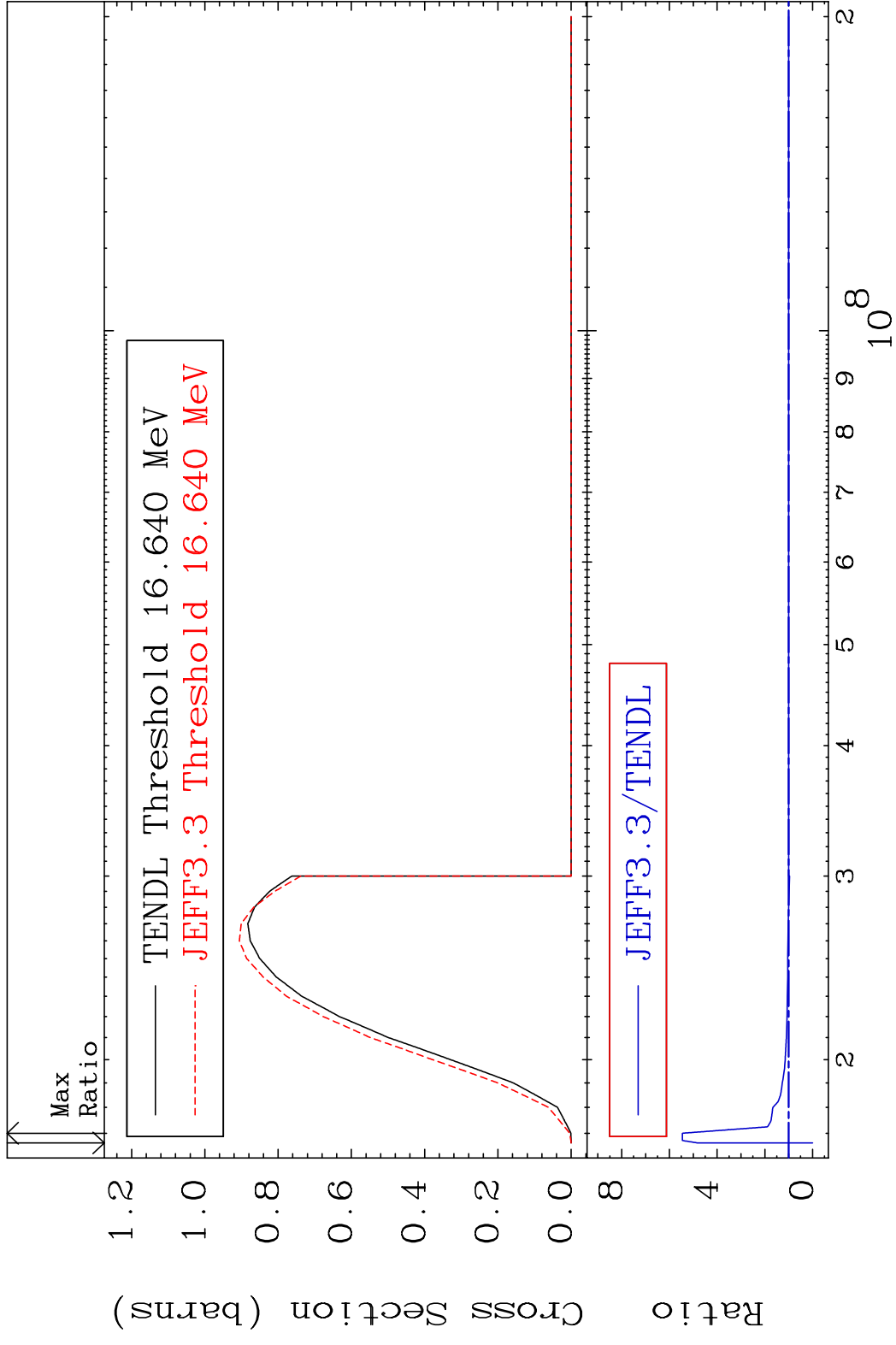
MAT 4440 (n,2n) d 44-Ru-101
 Cross Section 0.000 To 9999. %



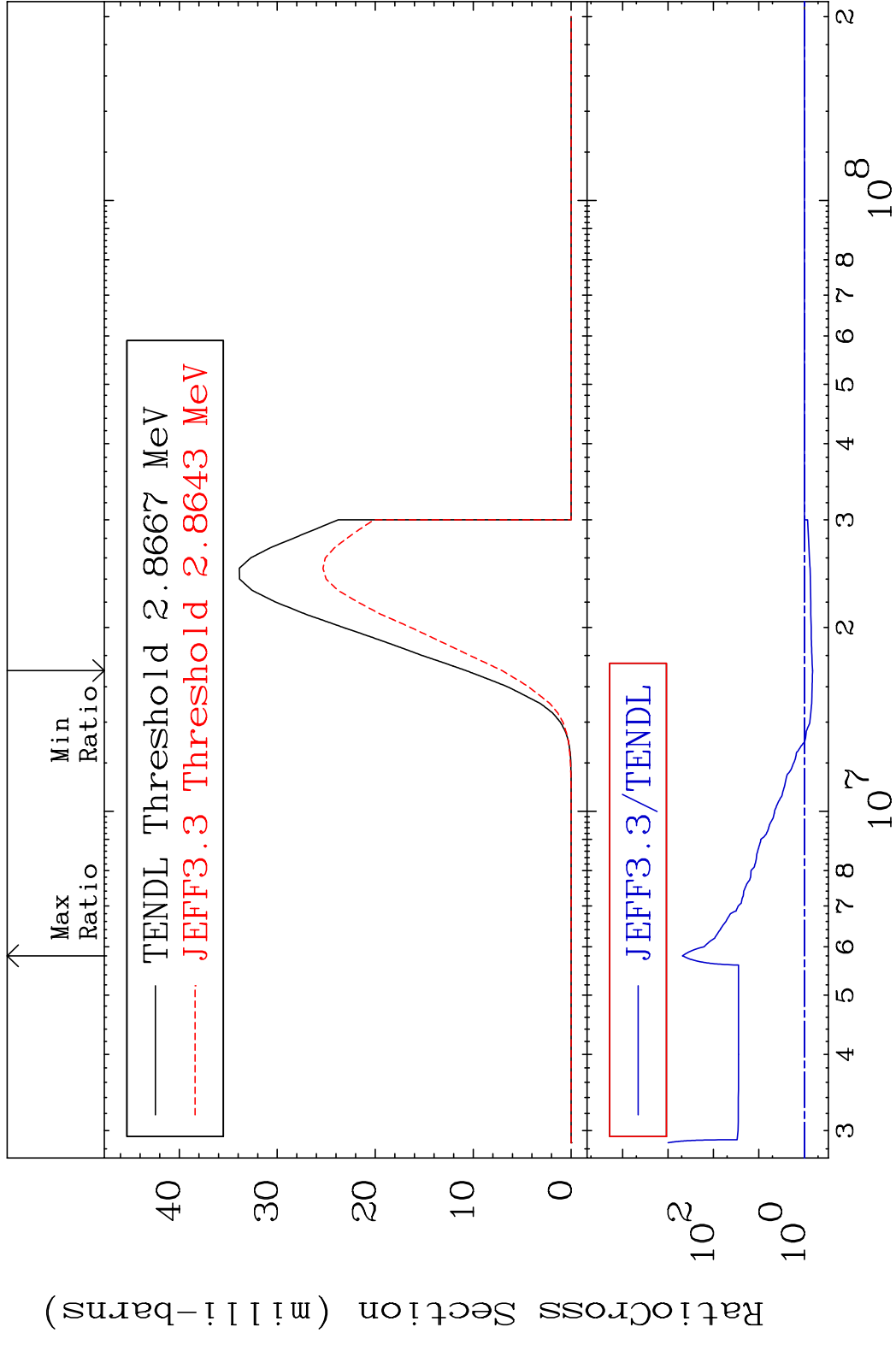
MAT 4440 (n,2n) 44-Ru-101
 Cross Section -100.0 To 72.82 %



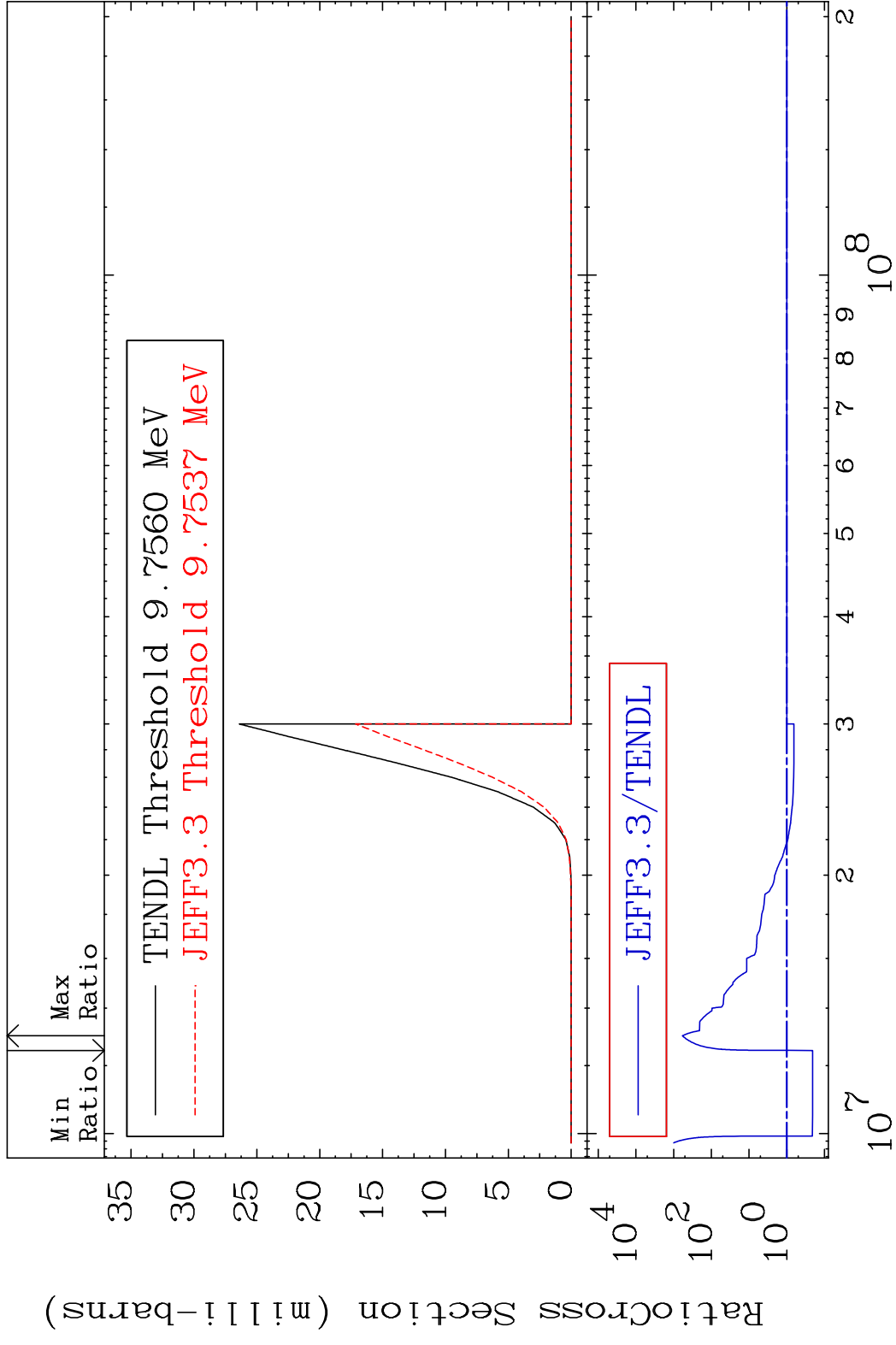
MAT 4440 (n,3n) 44-Ru-101
 Cross Section -100.0 To 445.8 %



MAT 4440 (n, n') α 44-Ru-101
 Cross Section -34.22 To 9999. %



MAT 4440 (n,2n) α 44-Ru-101
 Cross Section -79.25 To 9999. %



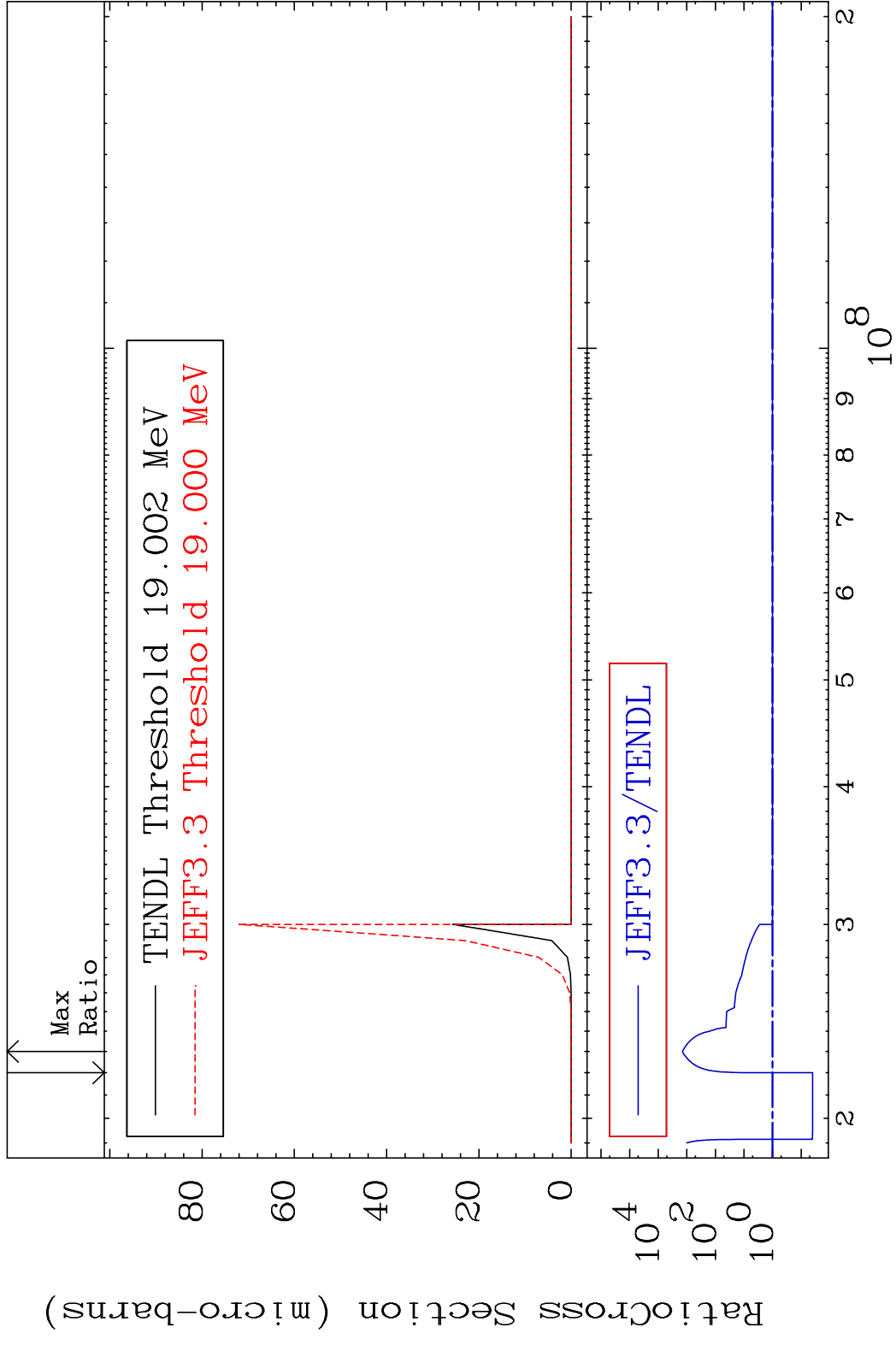
8 8 44-Ru-101

MAT 4440

(n,3n) α

44-Ru-101

Cross Section -96.02 To 9999. %

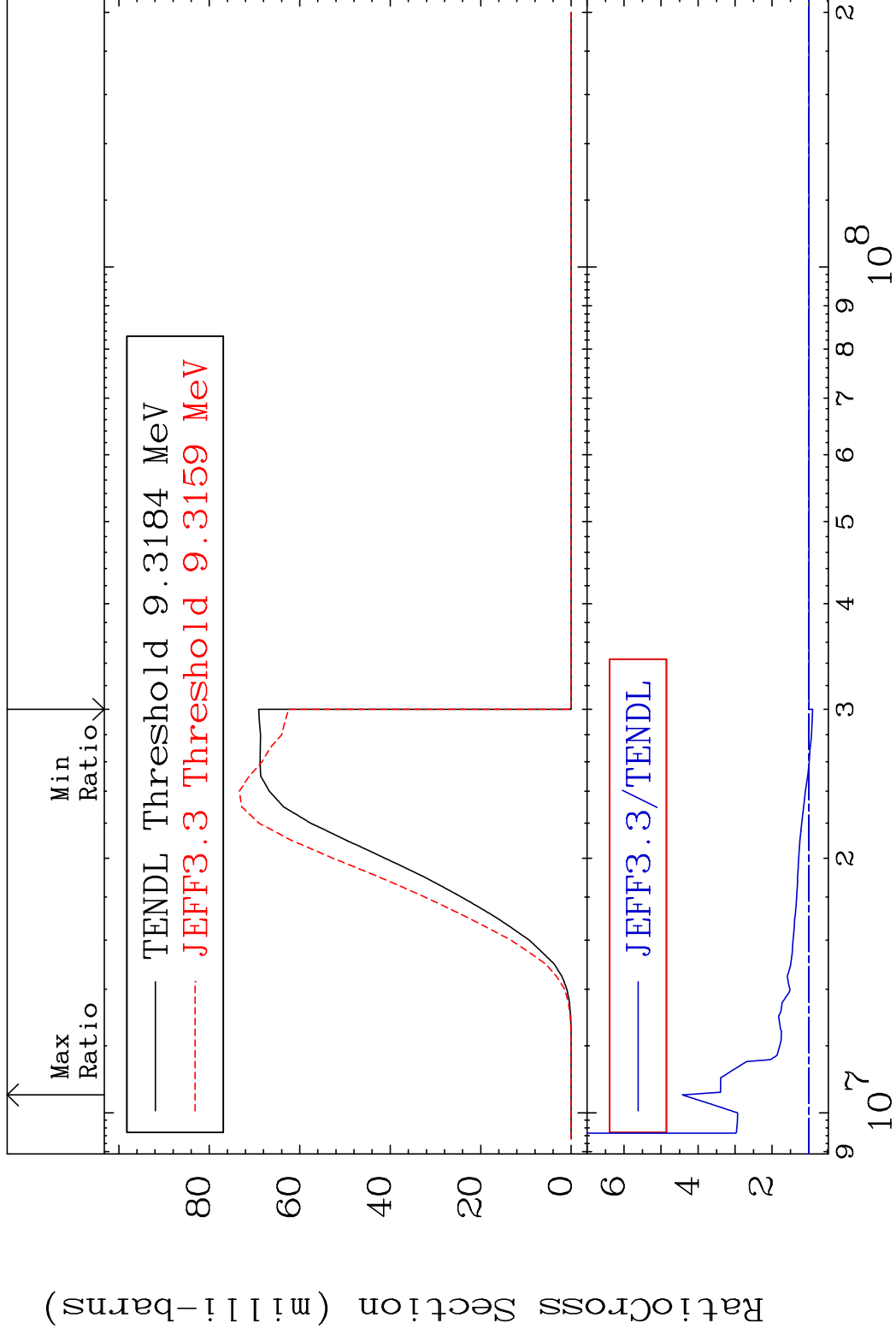


MAT 4440

(n, n') p

44-Ru-101

Cross Section -9.539 To 342.4 %

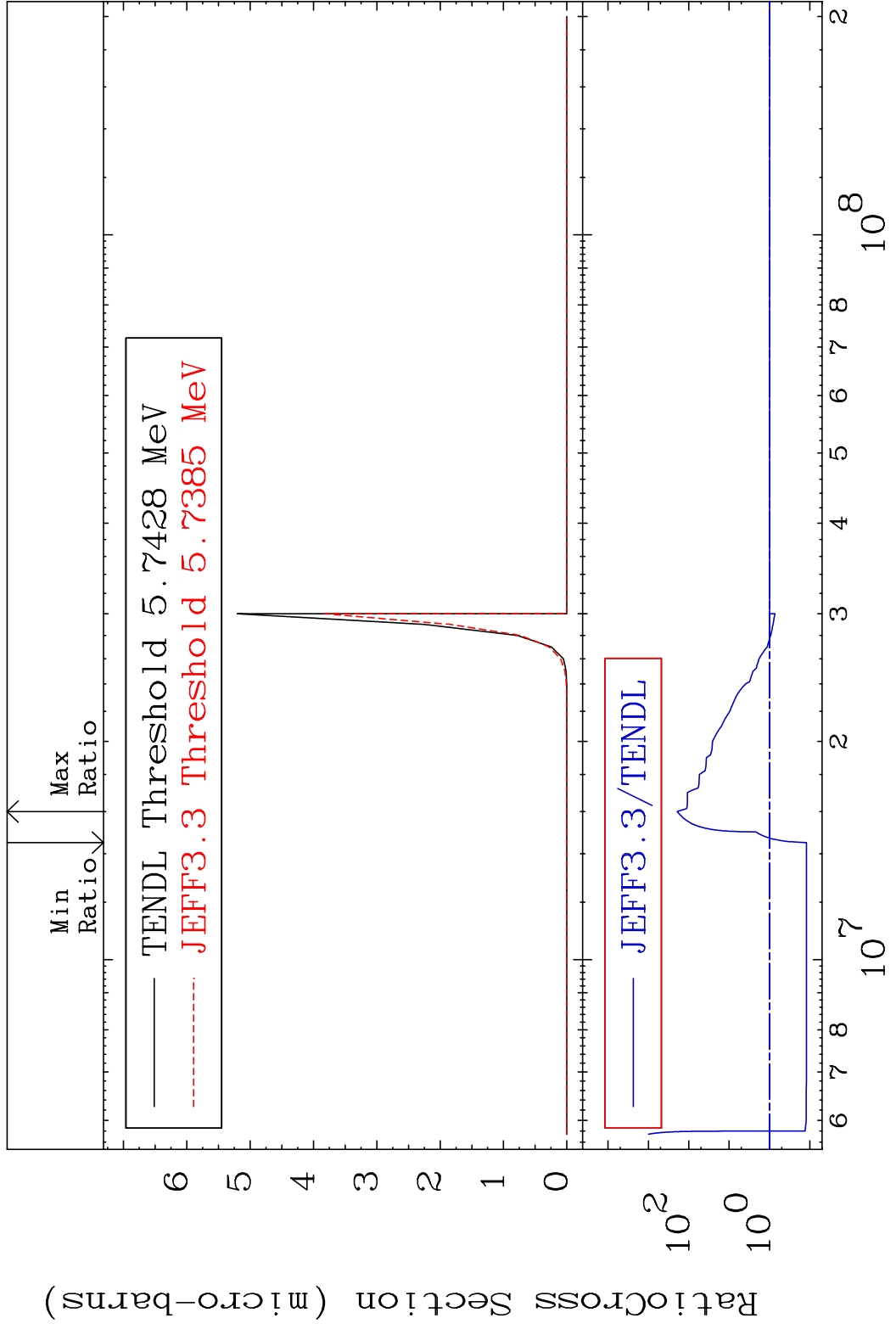


10

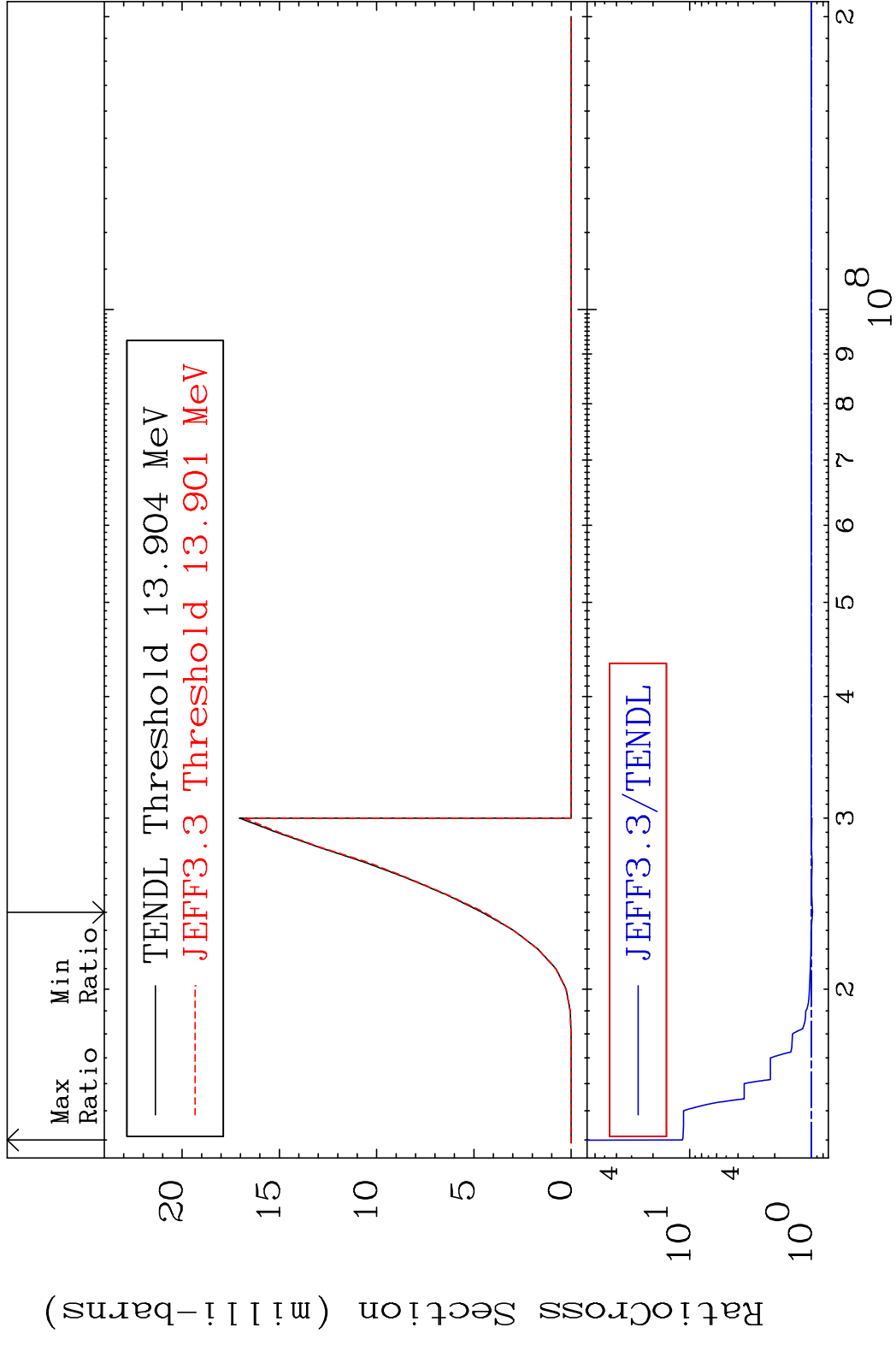
Incident Energy (eV)

44-Ru-101

MAT 4440 (n, n') 2α 44-Ru-101
 Cross Section -87.79 To 9999. %



MAT 4440 (n, n') d 44-Ru-101
 Cross Section -2.423 To 1048. %

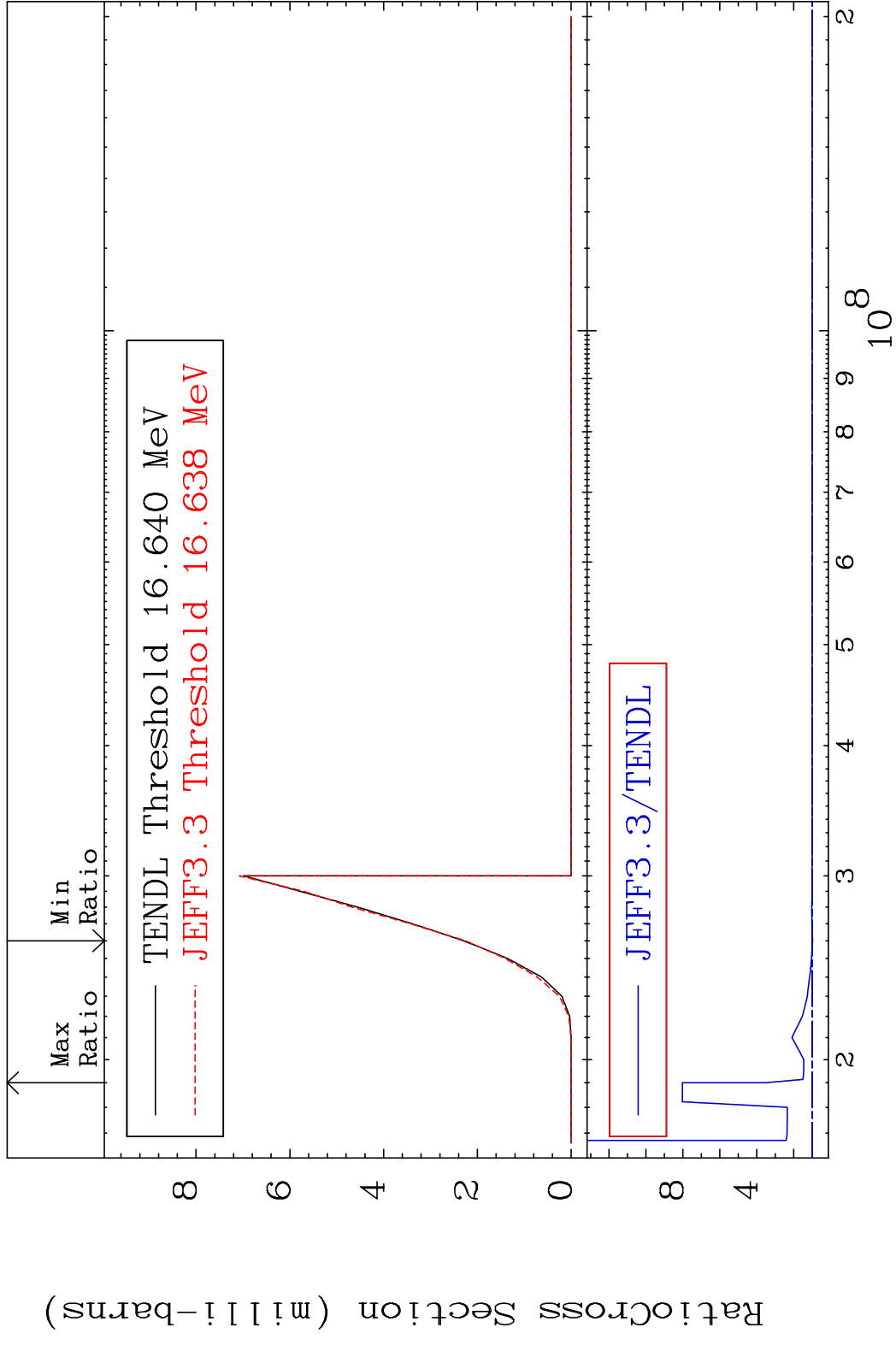


MAT 4440

(n, n') t

44-Ru-101

Cross Section -1.928 To 703.1 %

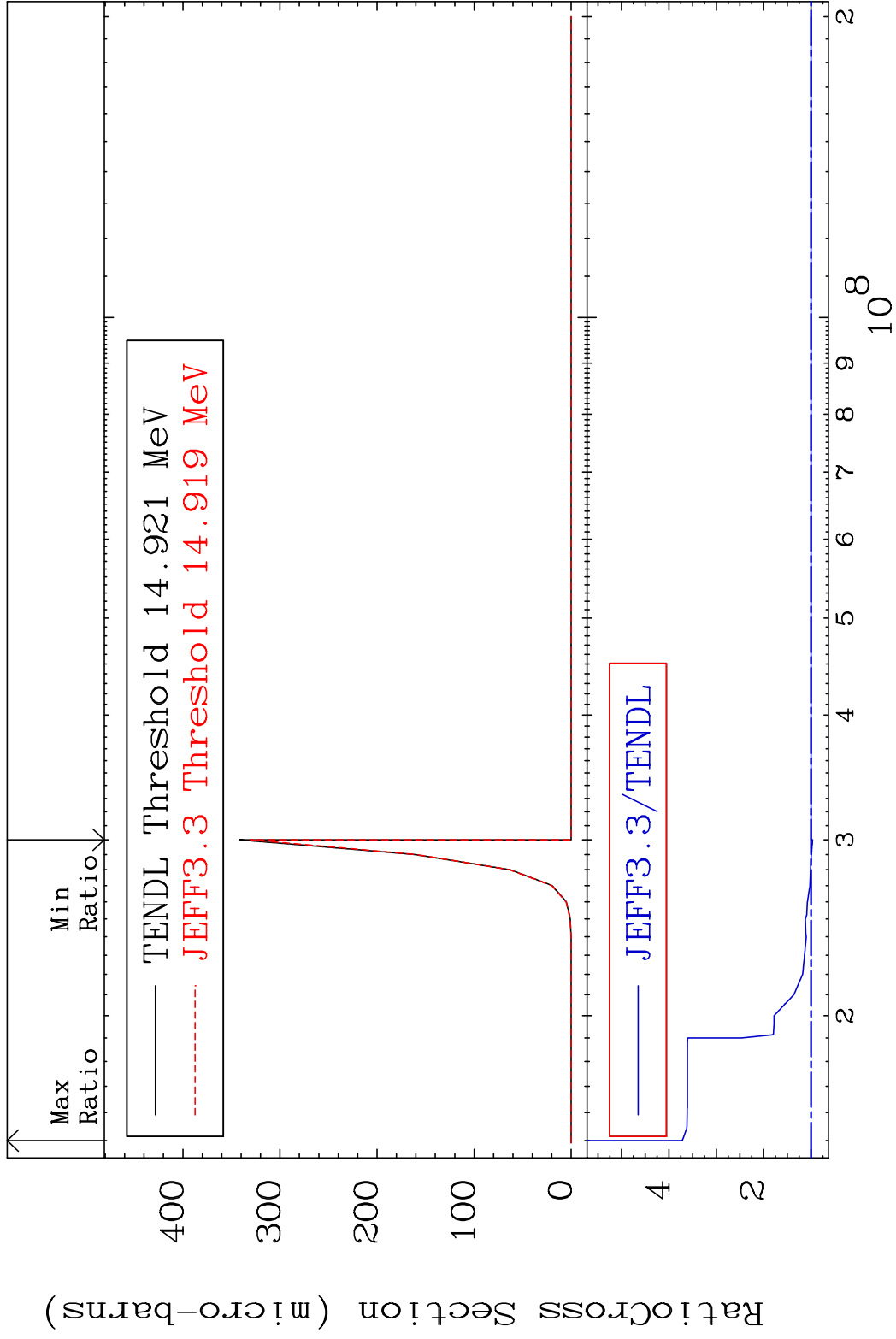


MAT 4440

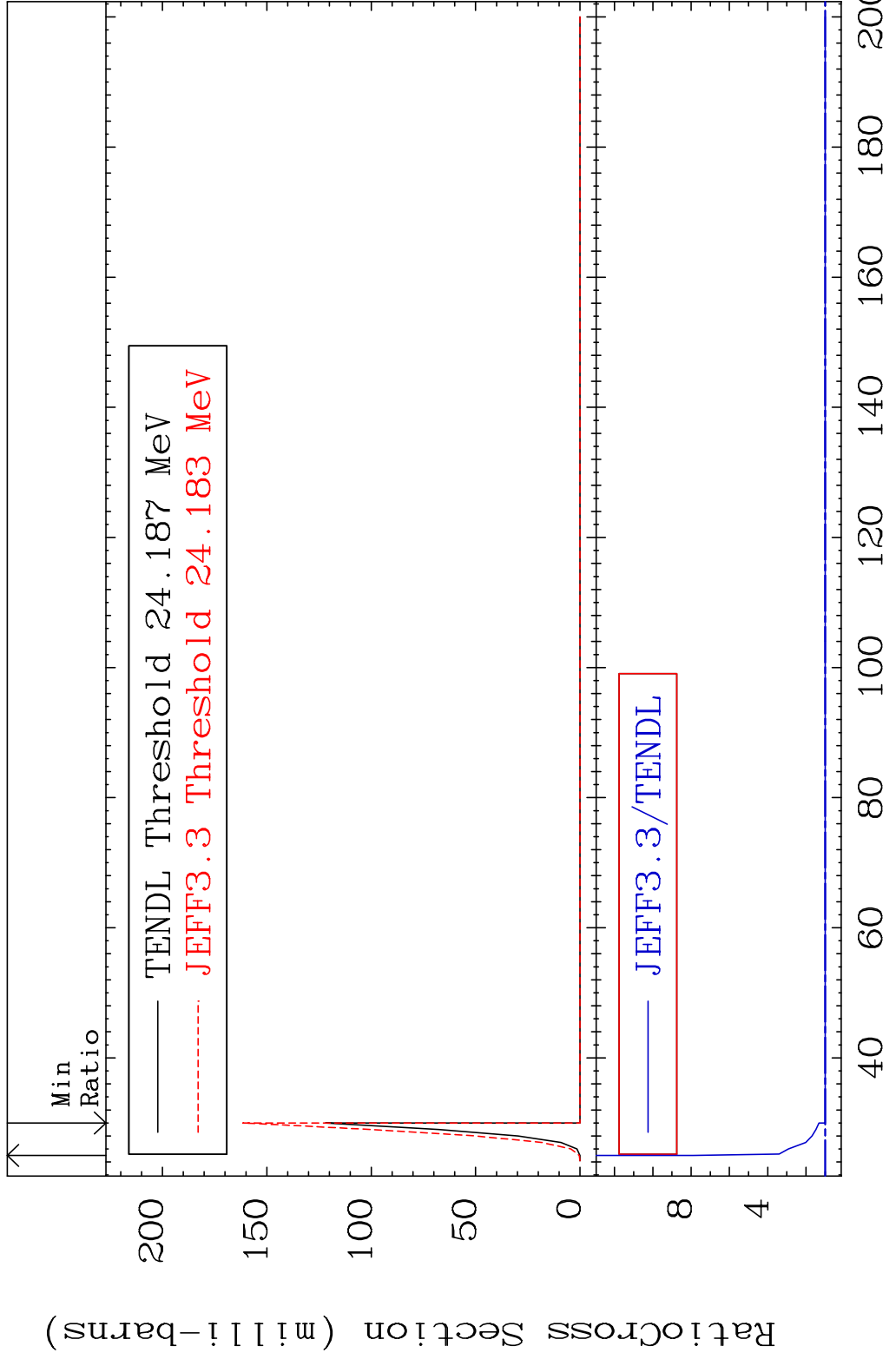
(n,n') He-3

44-Ru-101

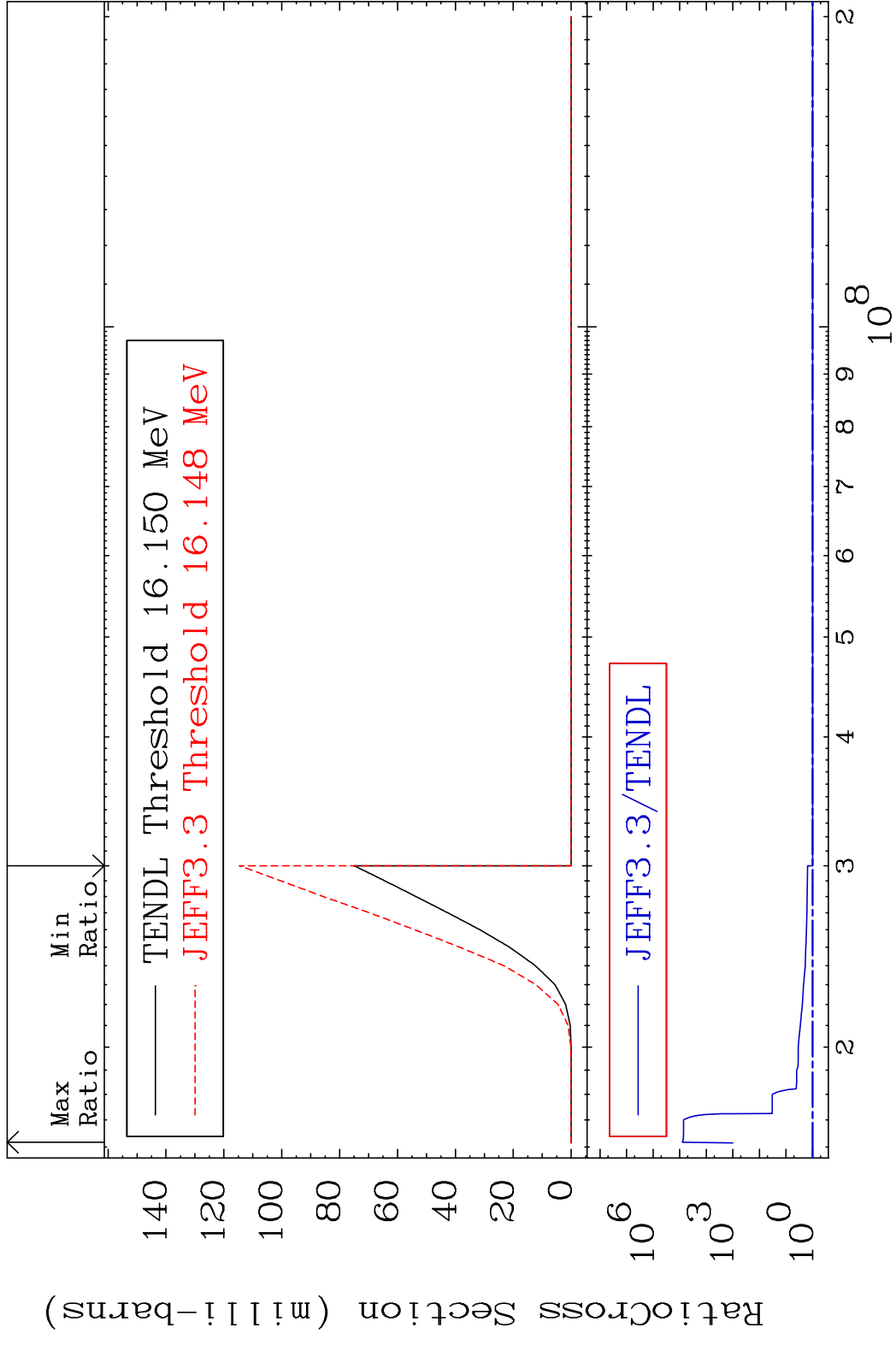
Cross Section -3.369 To 271.7 %



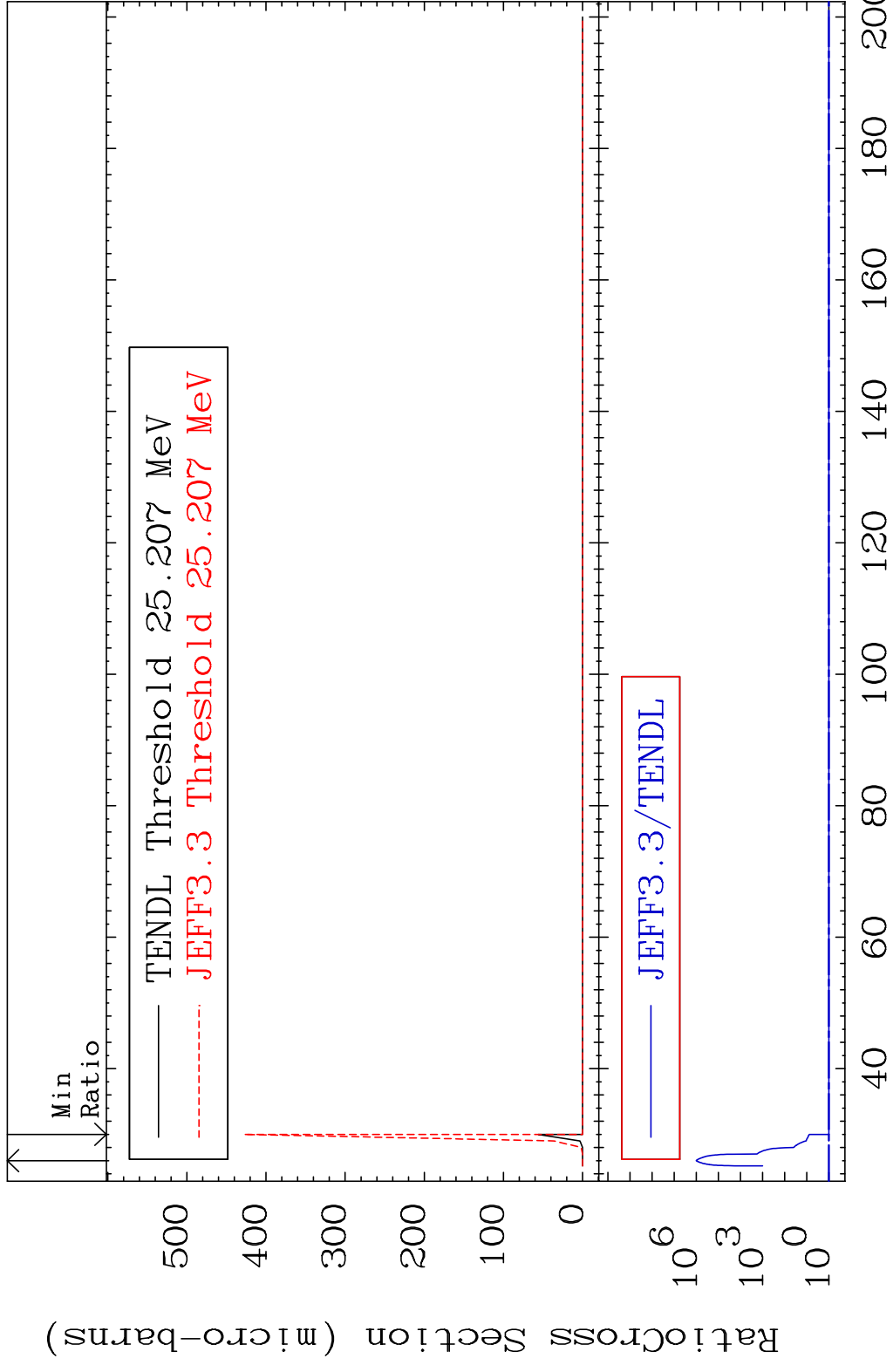
MAT 4440 (n,4n) 44-Ru-101
 Cross Section 0.000 To 690.5 %



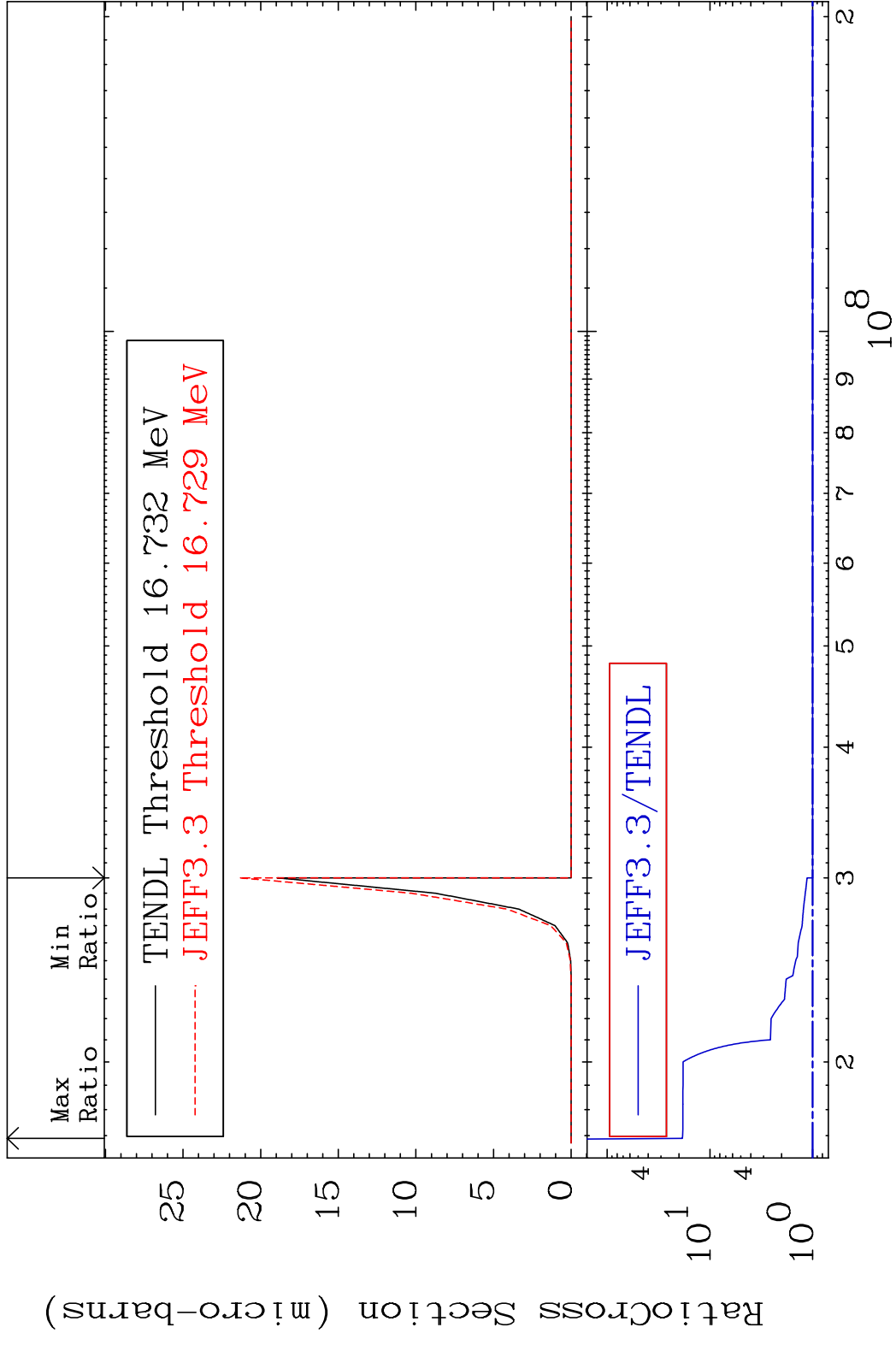
MAT 4440 (n,2n) p 44-Ru-101
 Cross Section 0.000 To 9999. %



MAT 4440 (n,3n) p 44-Ru-101
 Cross Section 0.000 To 9999. %



MAT 4440 (n,2n) p 44-Ru-101
 Cross Section 0.000 To 1755. %

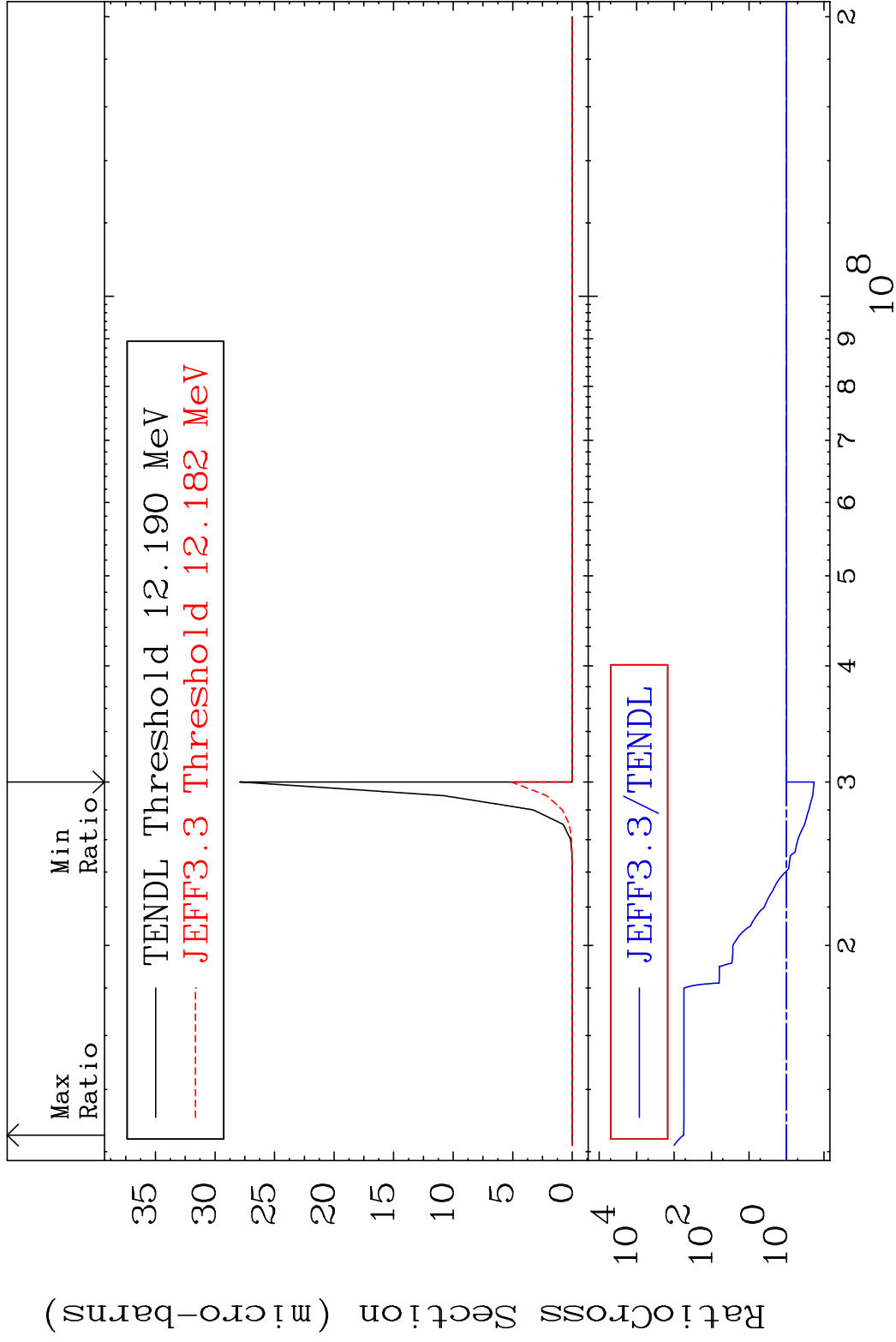


MAT 4440

(n,n') p α

44-Ru-101

Cross Section -81.71 To 9999. %

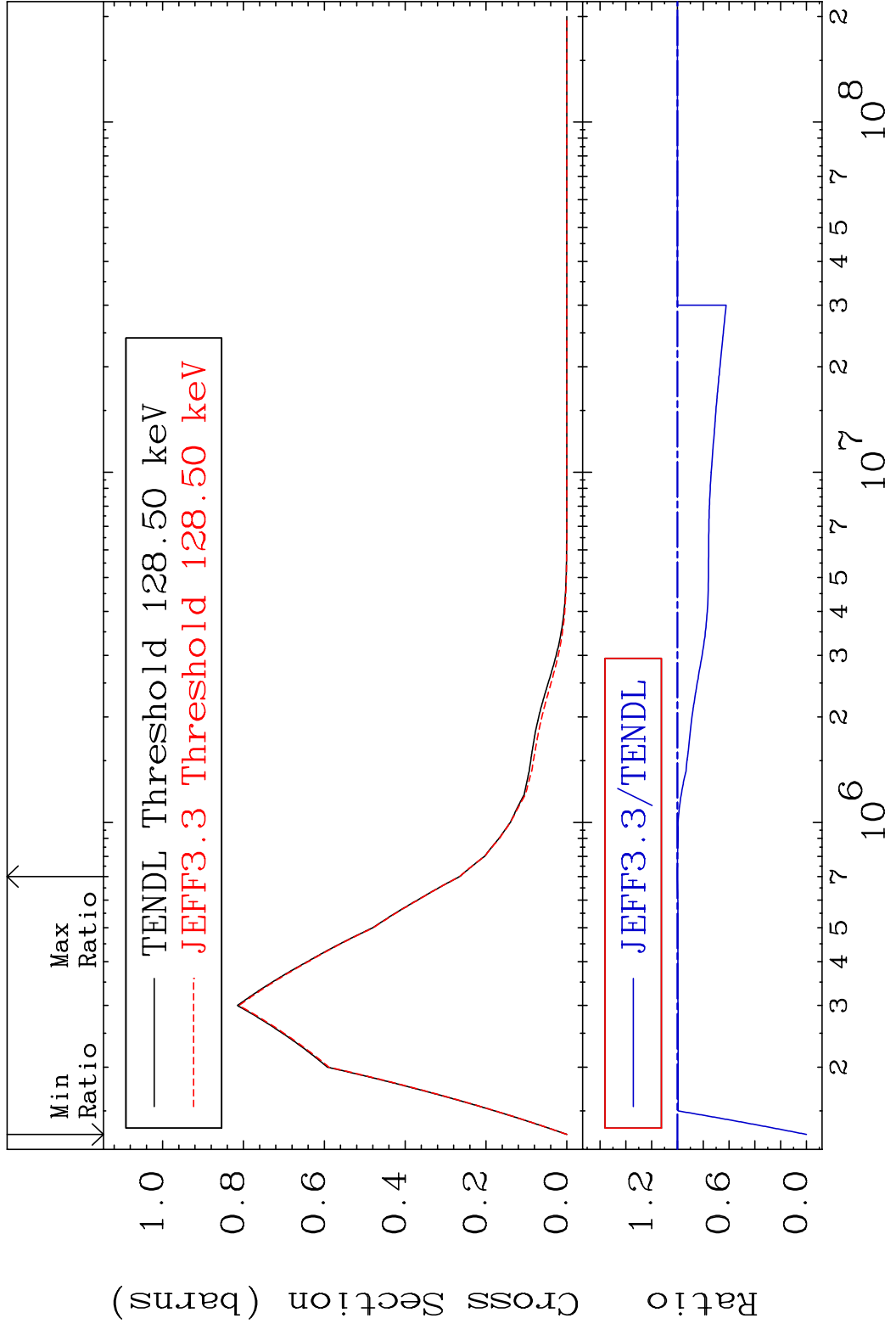


19

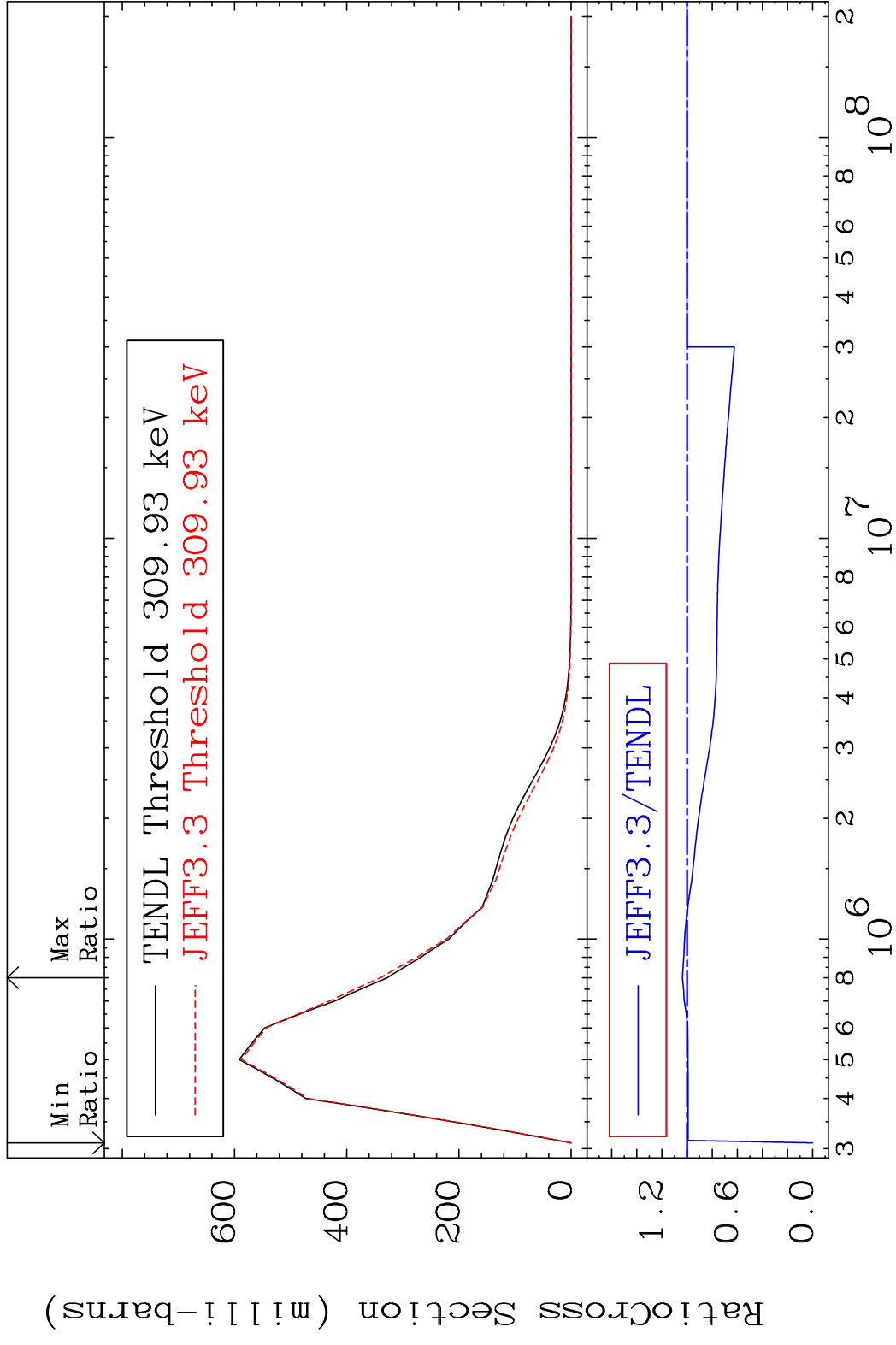
Incident Energy (eV)

44-Ru-101

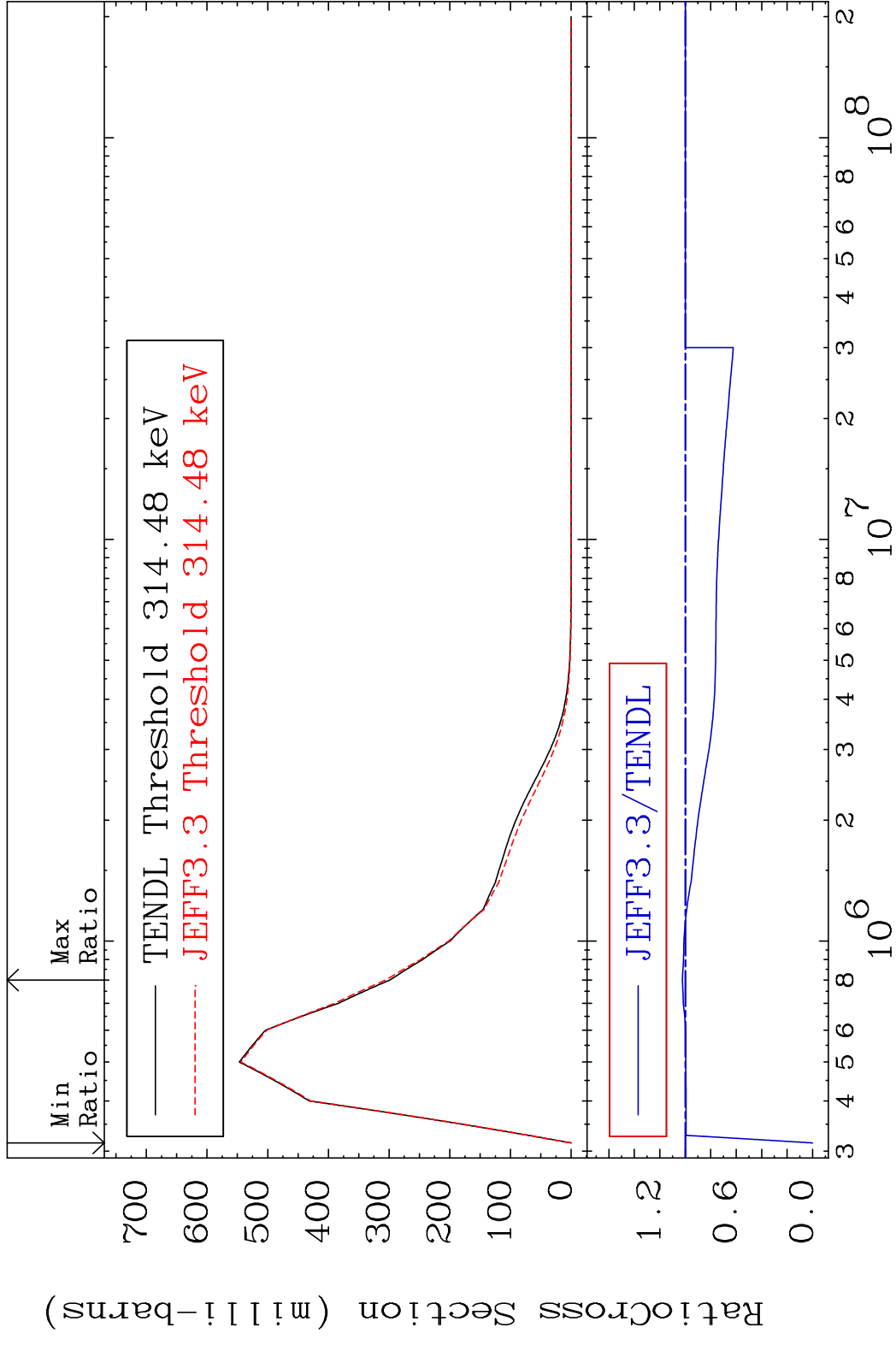
MAT 4440 MT= 51 (n,n') Level 44-Ru-101
 Cross Section -100.0 To 0.187 %



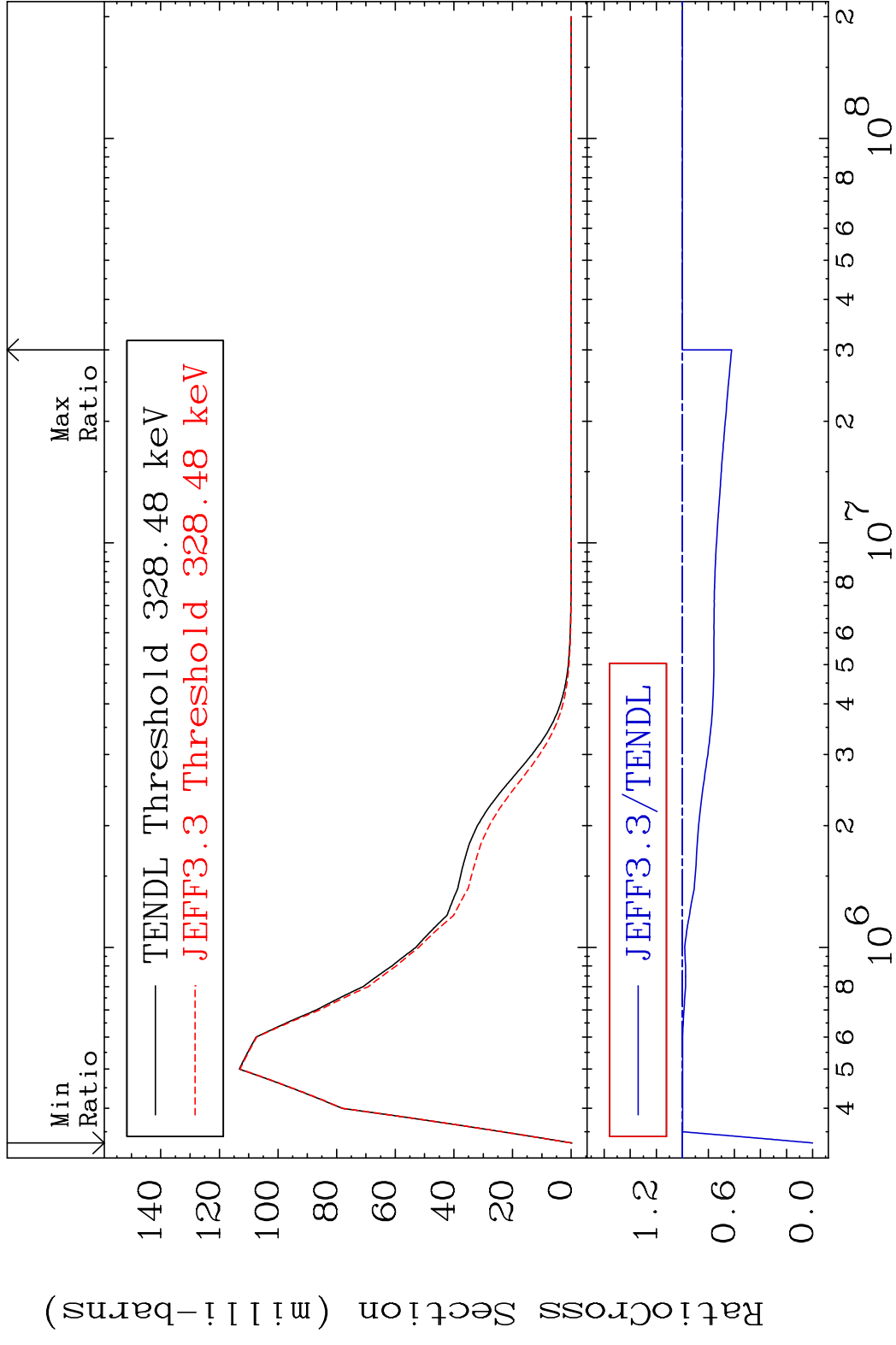
MAT 4440 MT= 52 (n,n') Level 44-Ru-101
 Cross Section -100.0 To 3.743 %



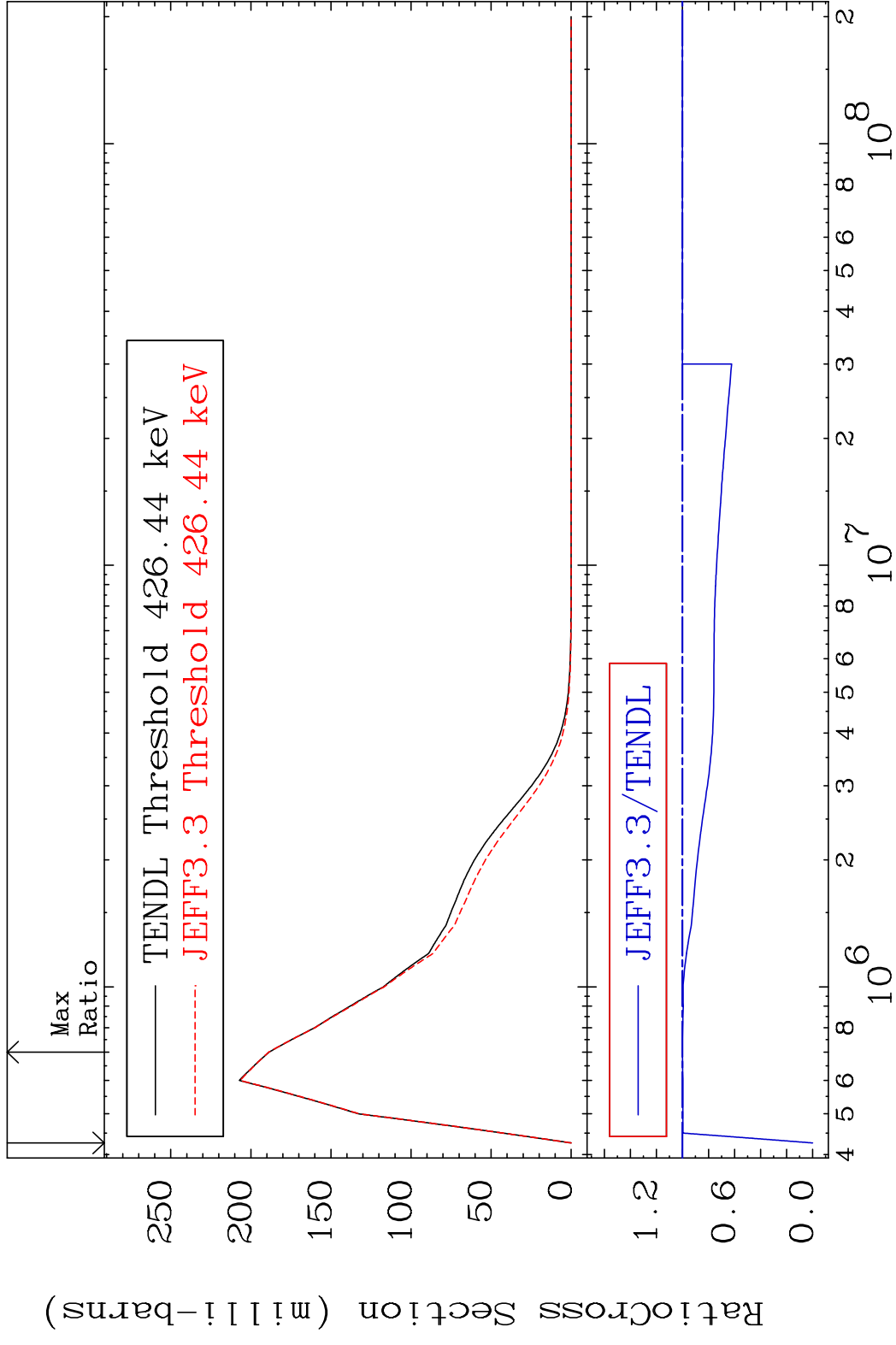
MAT 4440 MT= 53 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 2.282 %



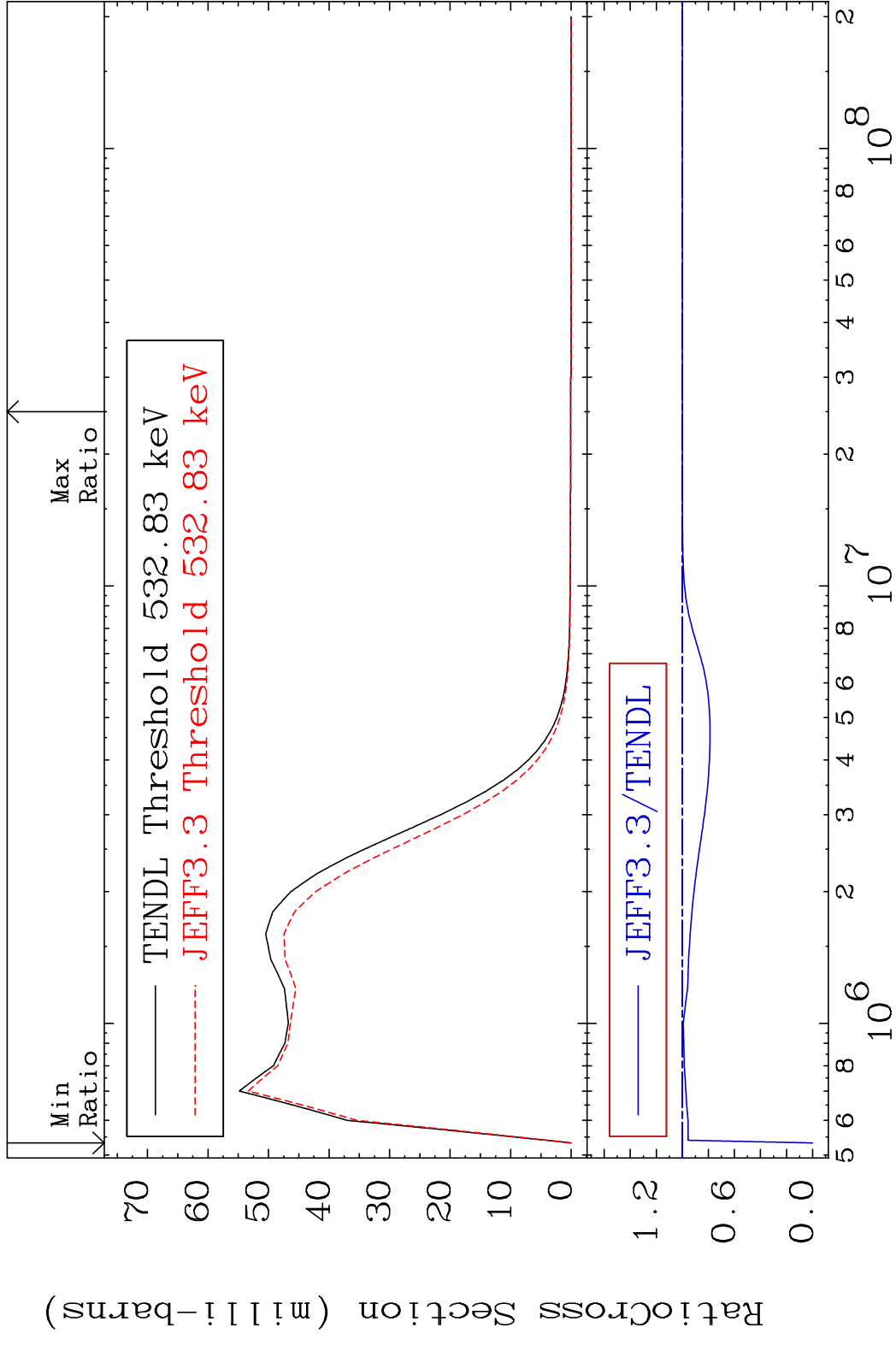
MAT 4440 MT= 54 (n,n') Level 44-Ru-101
 Cross Section -100.0 To 0.000 %



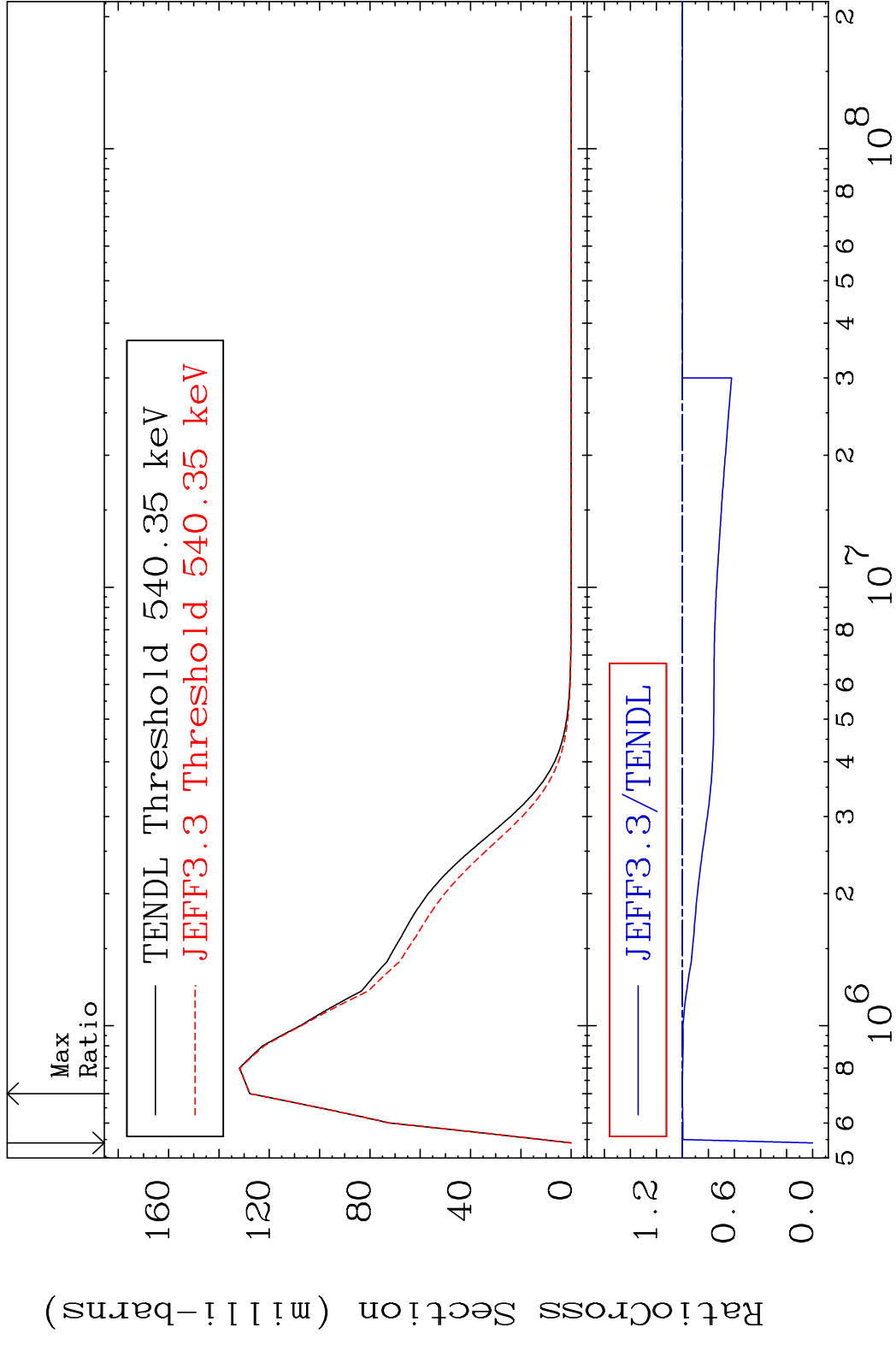
MAT 4440 MT= 55 (n,n') Level 44-Ru-101
 Cross Section -100.0 To 0.105 %



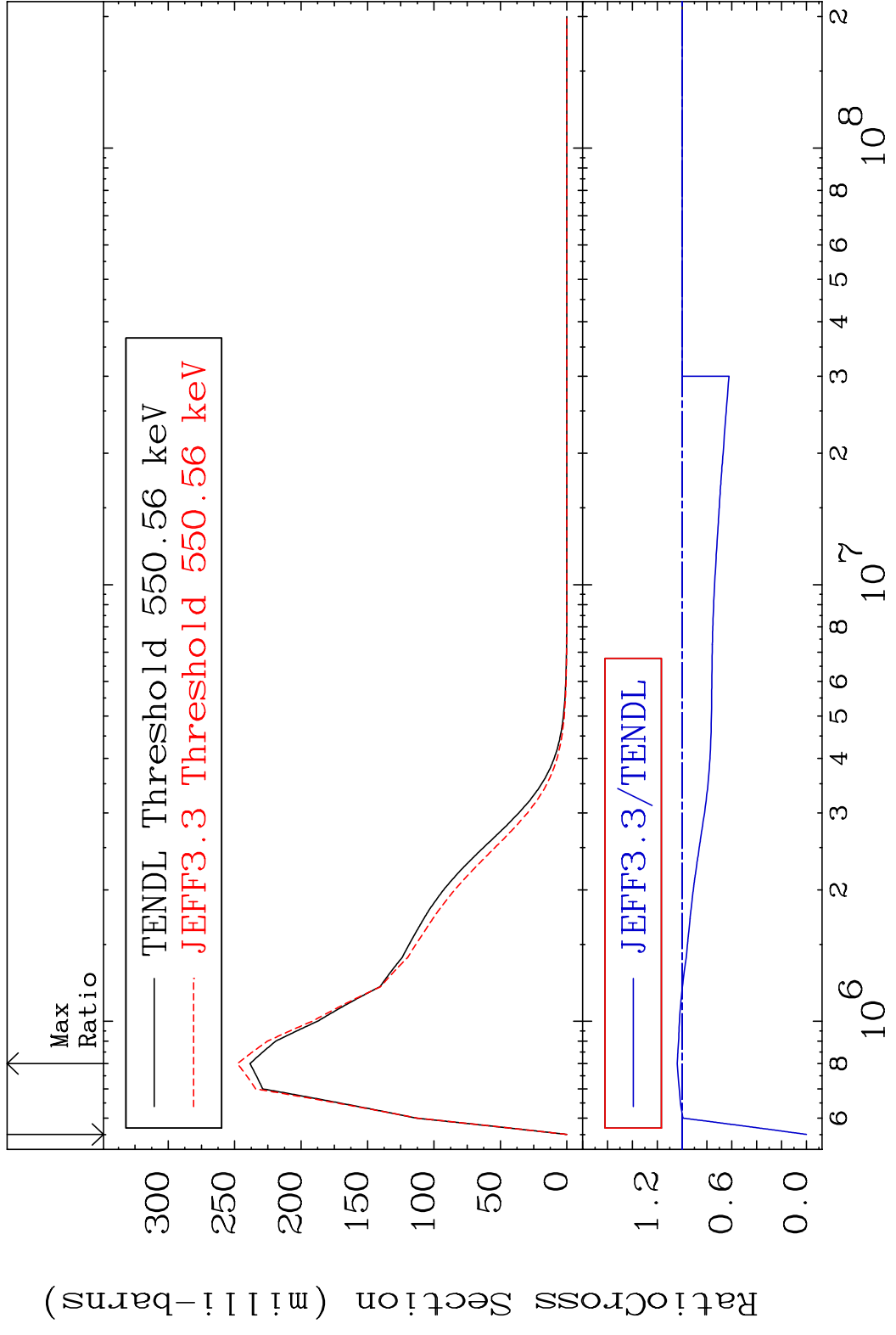
MAT 4440 MT= 56 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 0.000 %



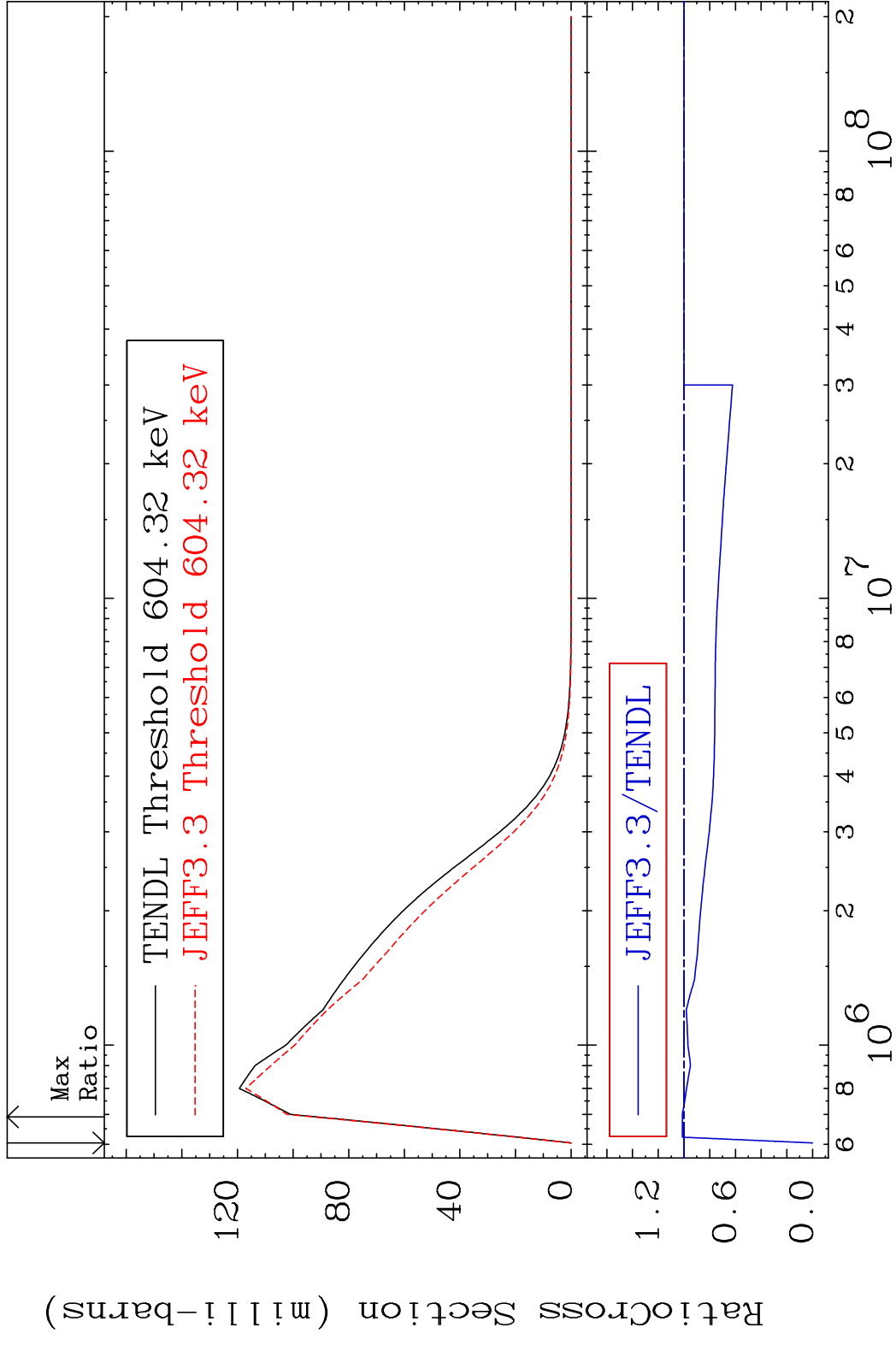
MAT 4440 MT= 57 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 0.080 %



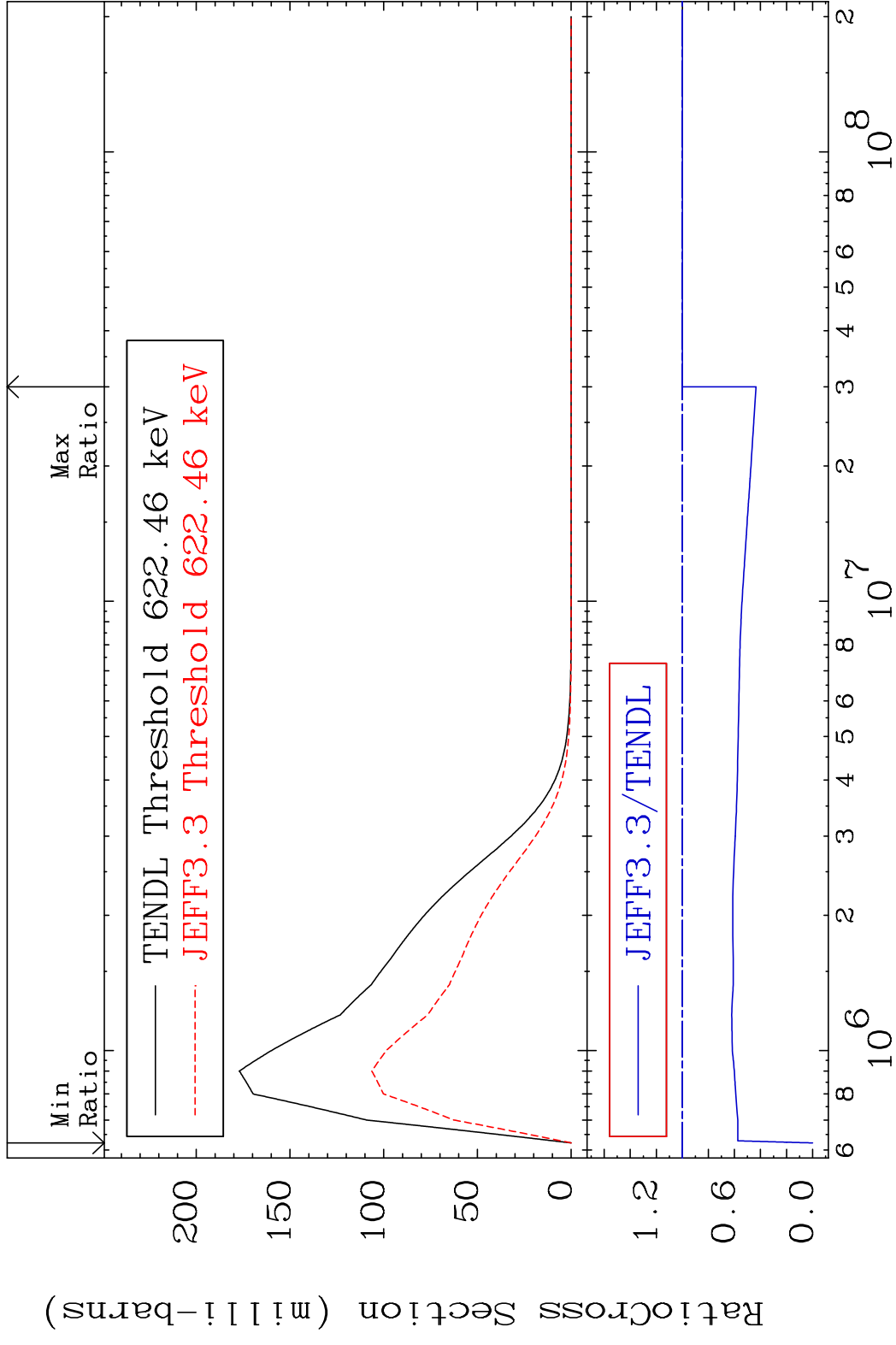
MAT 4440 MT= 58 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 3.942 %



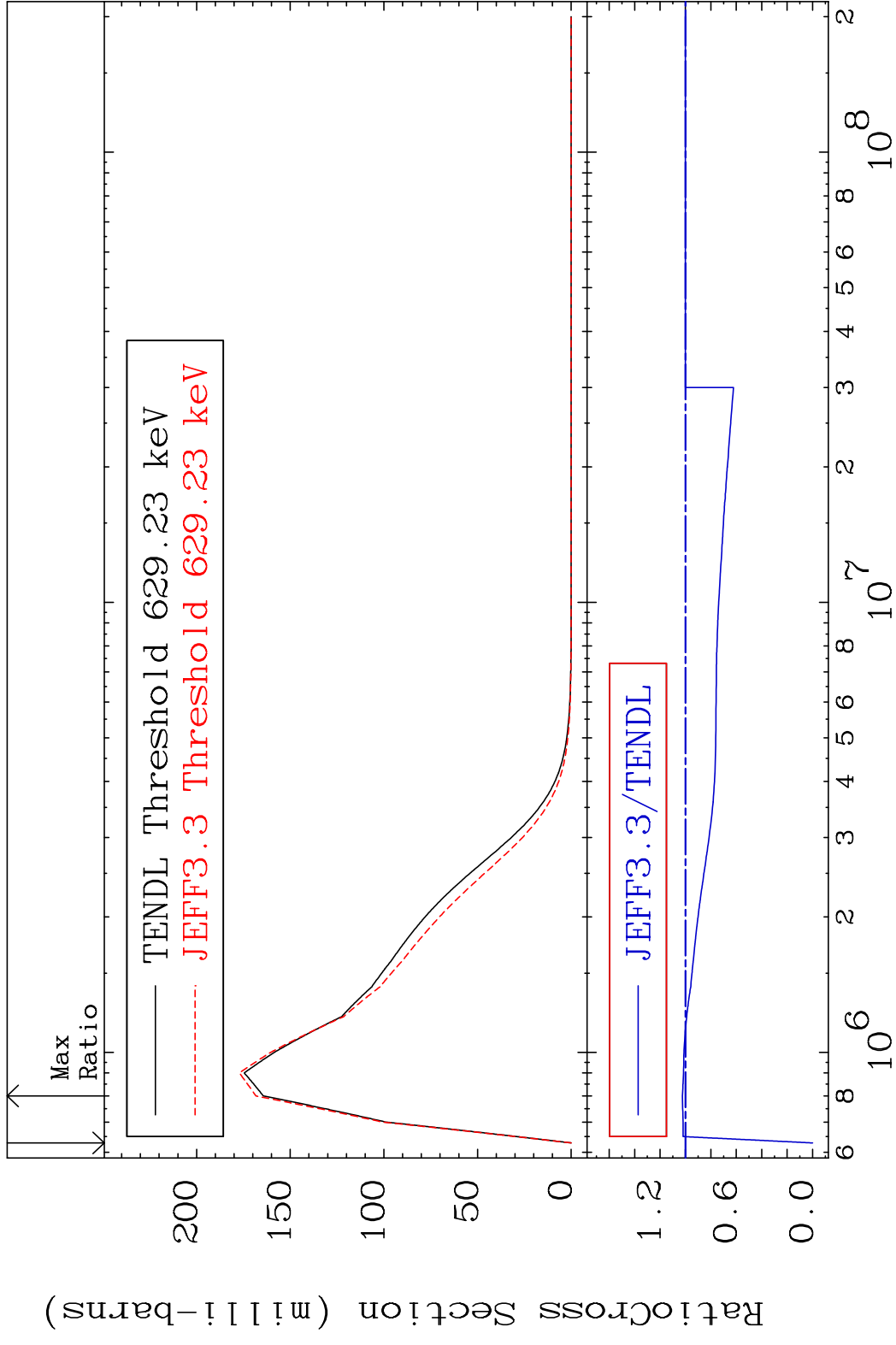
MAT 4440 MT= 59 (n,n') Level 44-Ru-101
 Cross Section -100.0 To 1.267 %



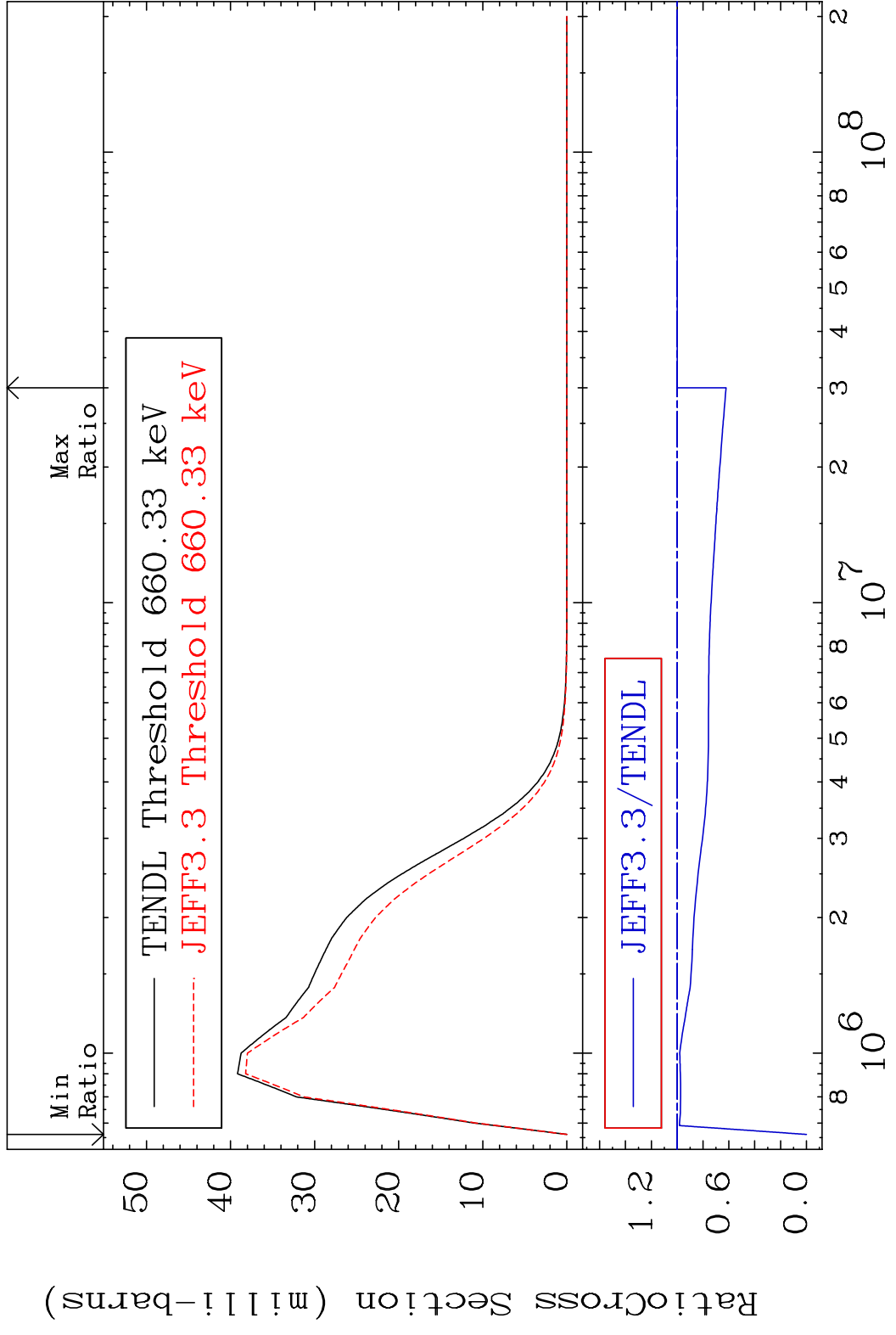
MAT 4440 MT= 60 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 0.000 %



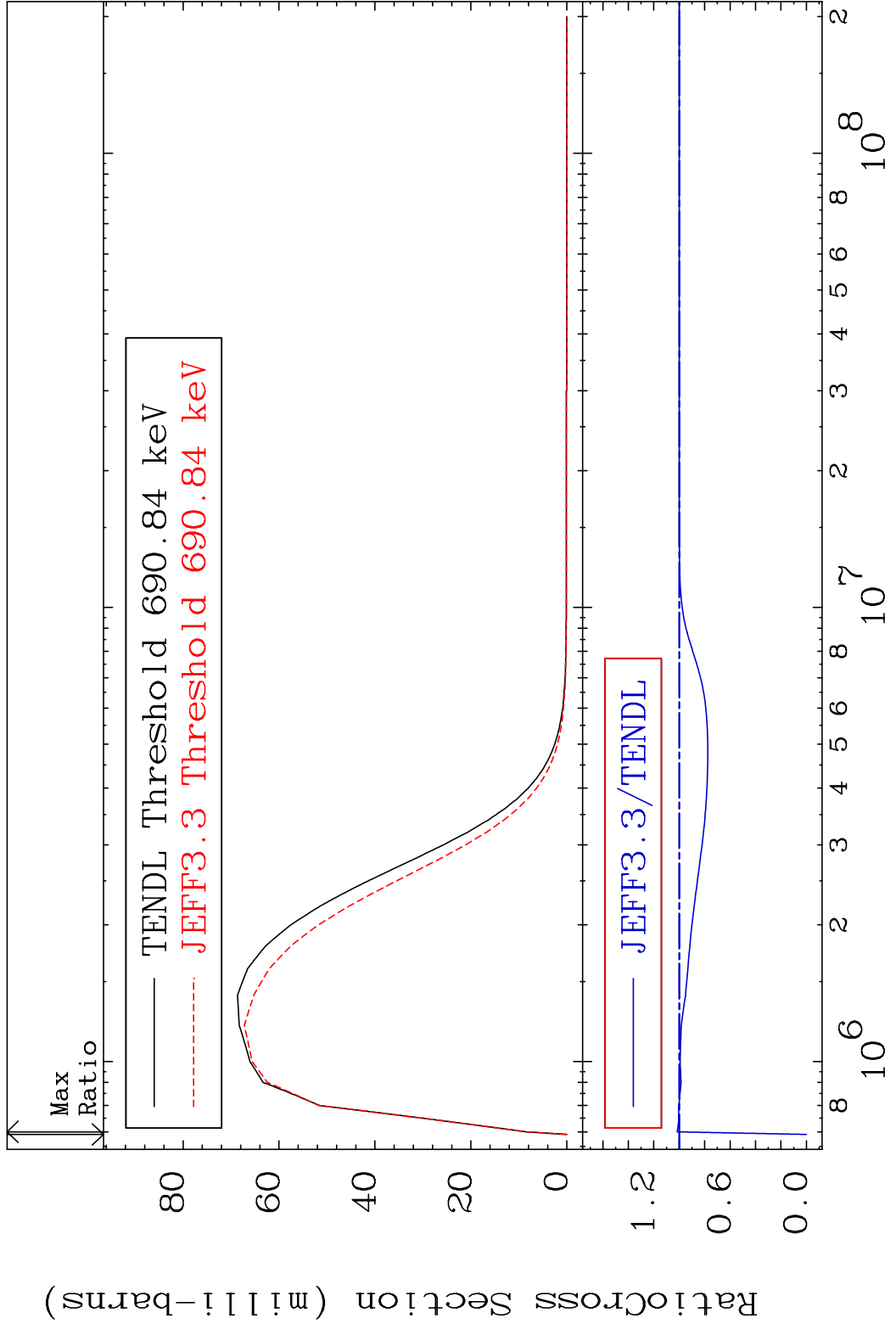
MAT 4440 MT= 61 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 2.443 %



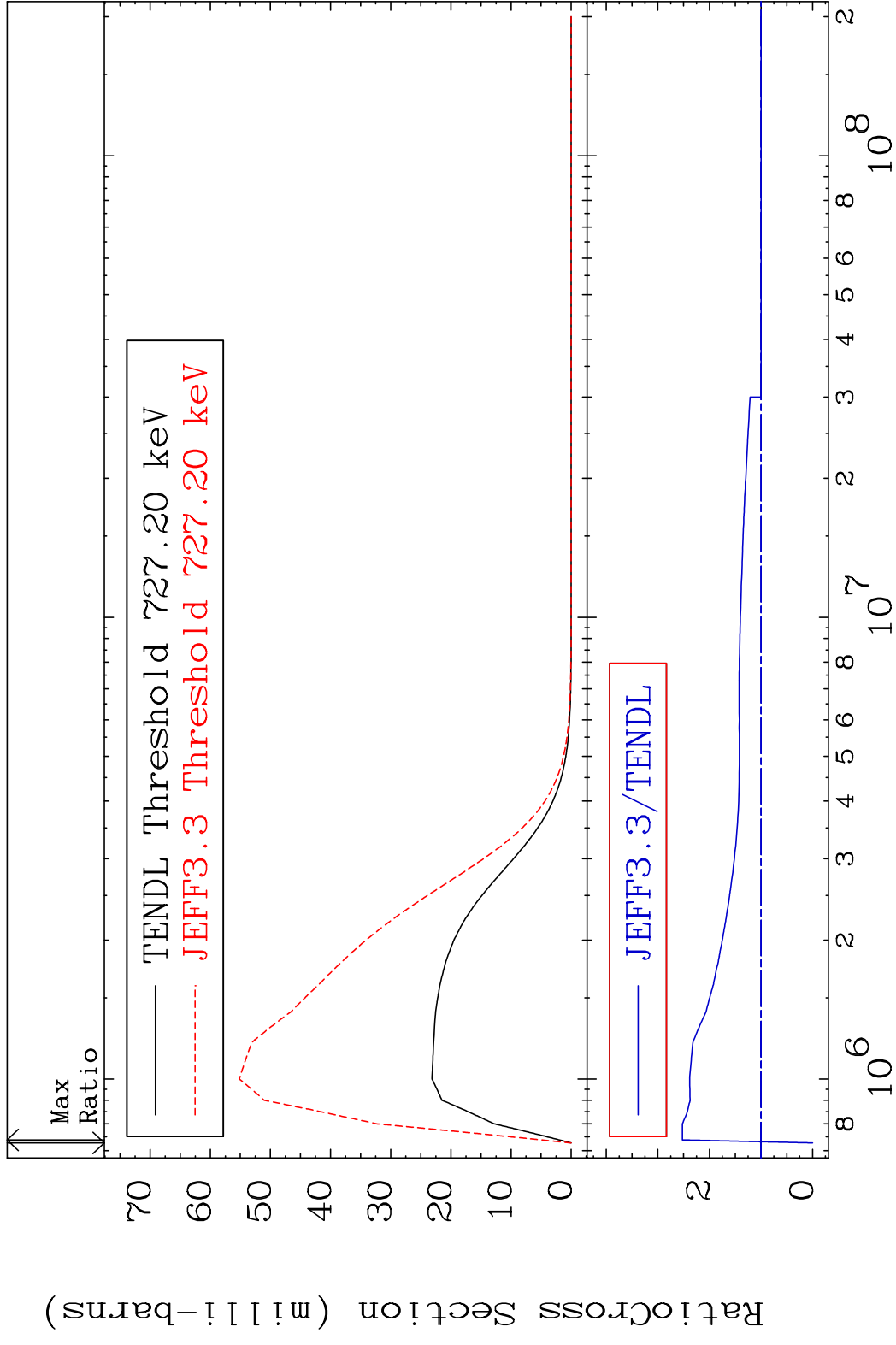
MAT 4440 MT= 62 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 0.000 %



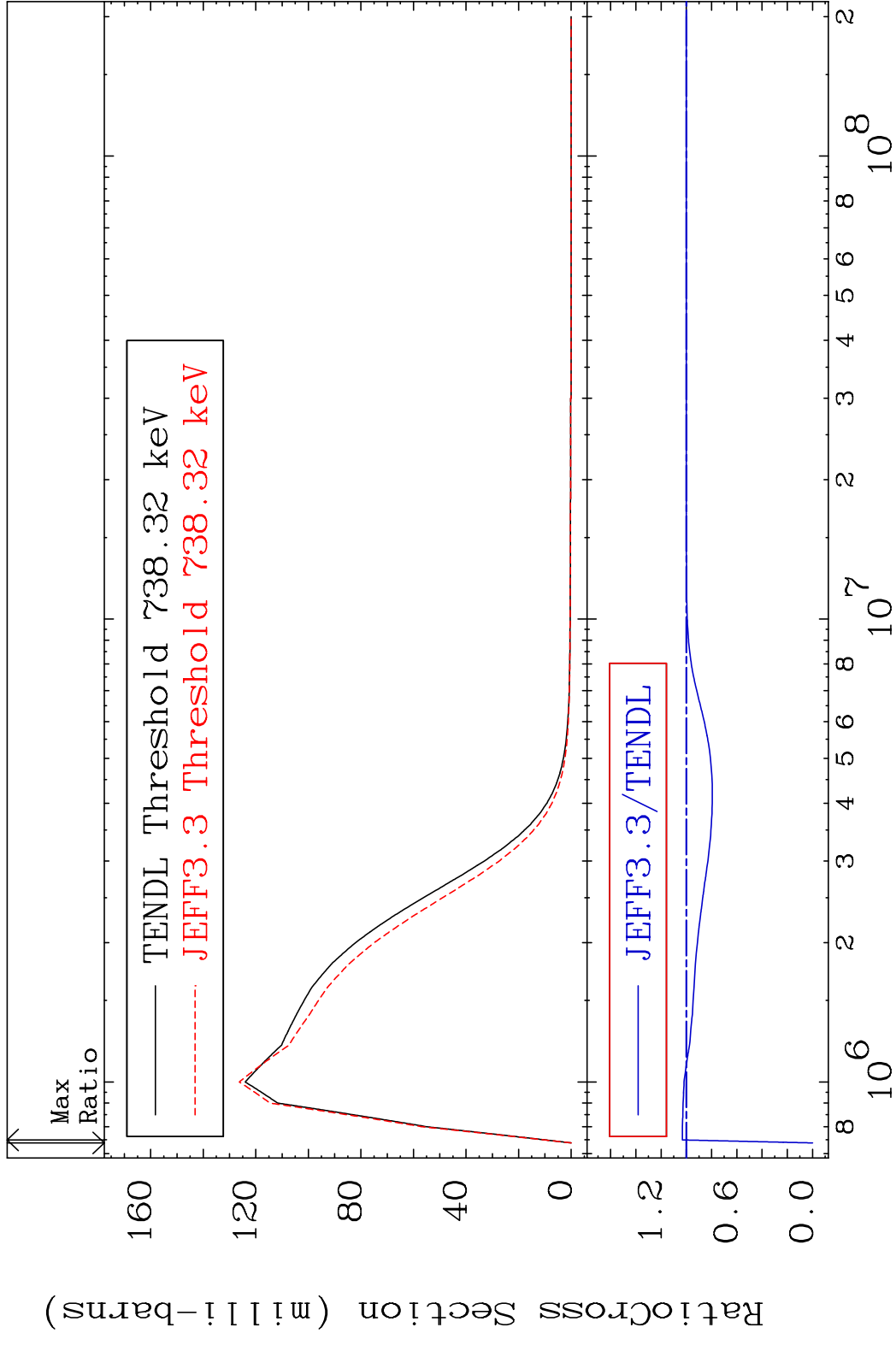
MAT 4440 MT= 63 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 1.603 %



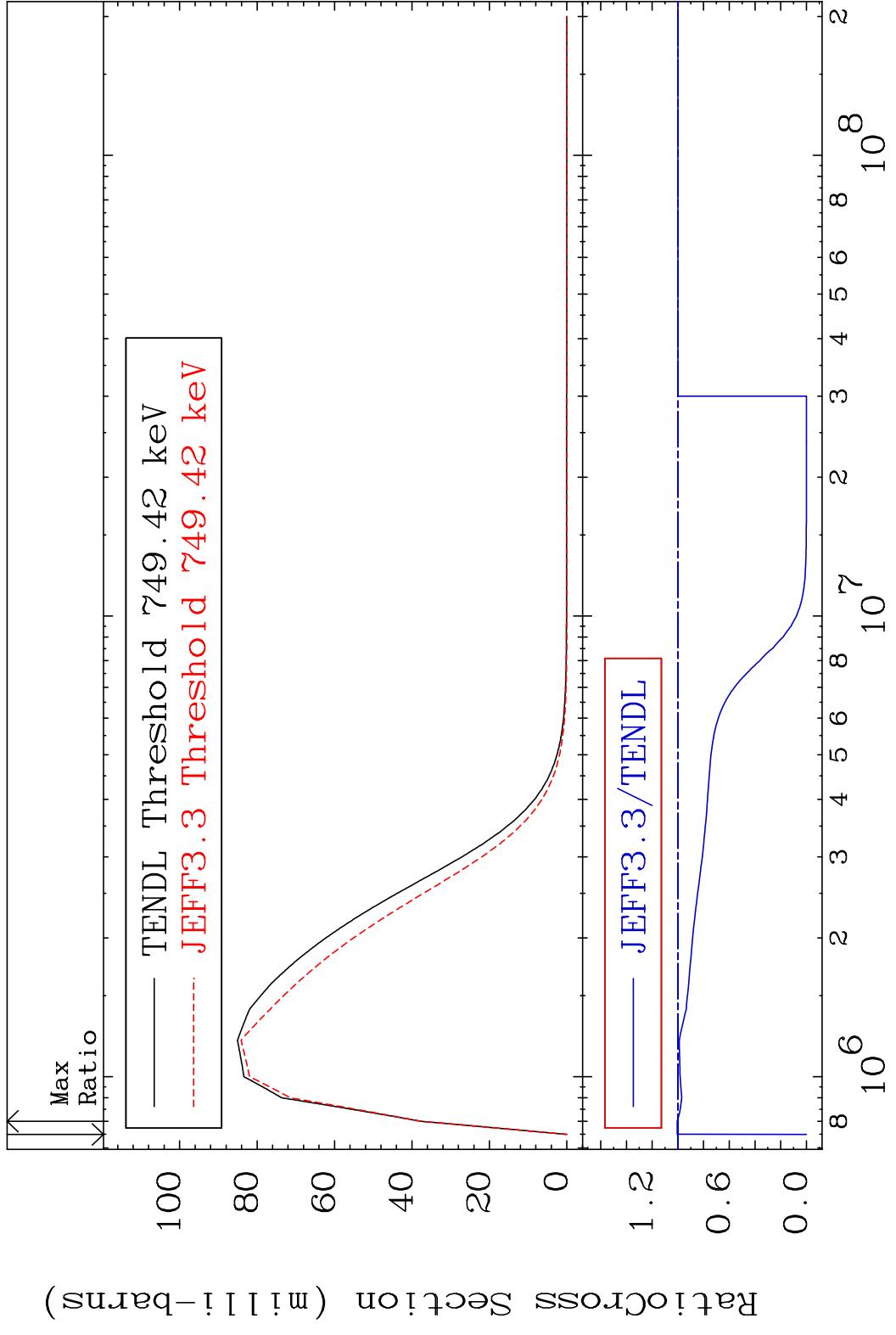
MAT 4440 MT= 64 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 152.5 %



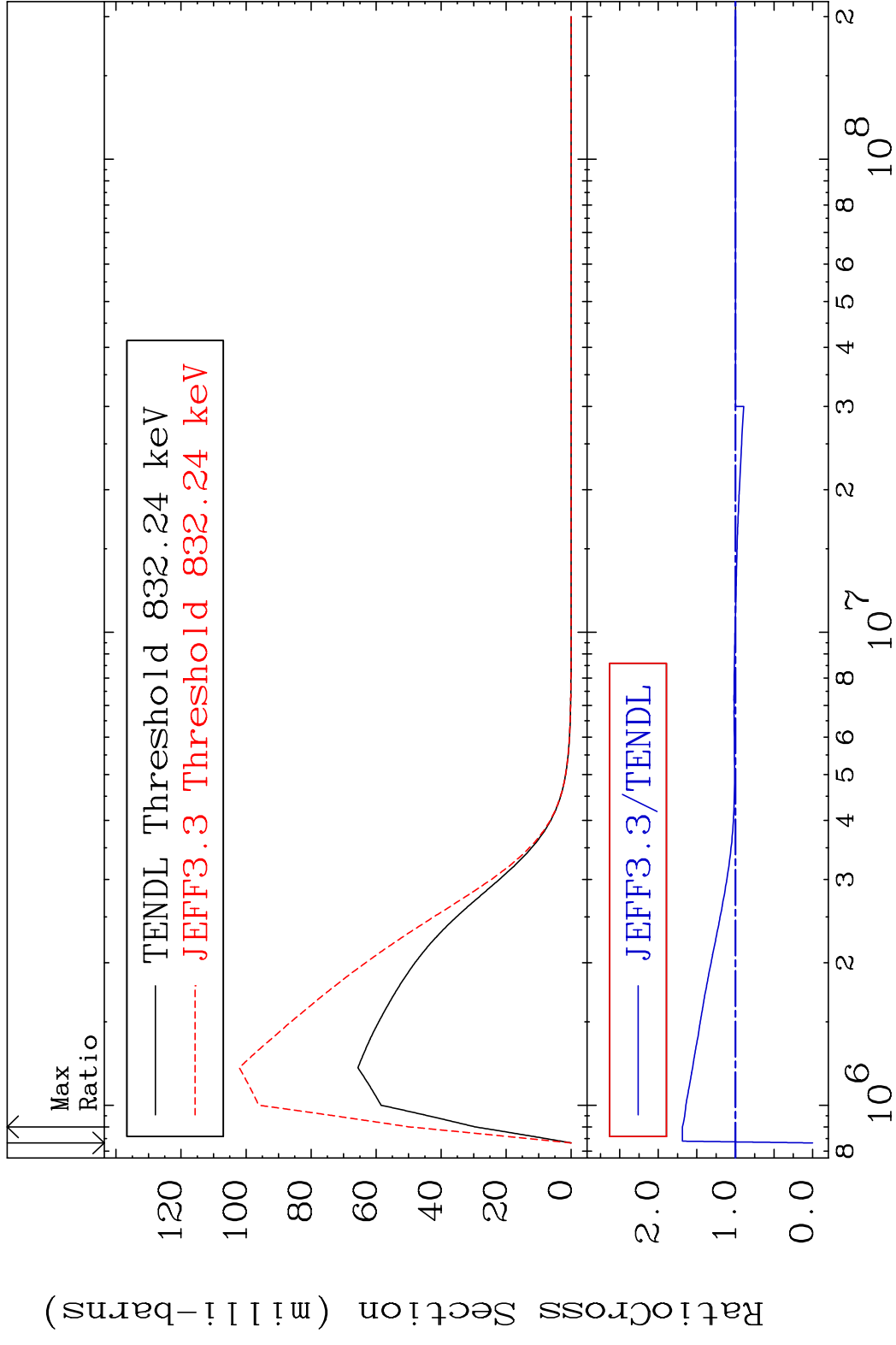
MAT 4440 MT= 65 (n,n') Level 44-Ru-101
 Cross Section -100.0 To 3.146 %



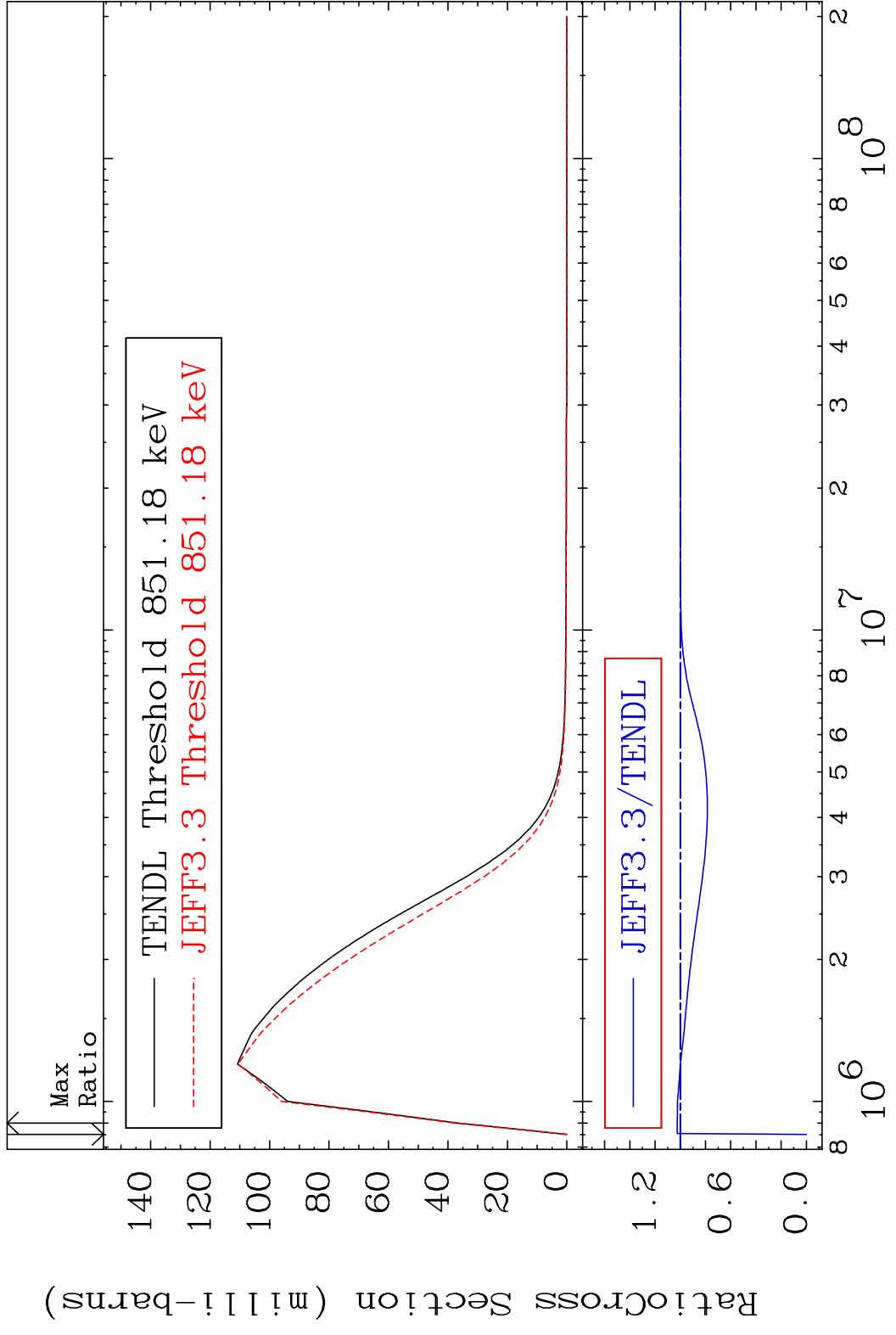
MAT 4440 MT= 66 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 0.508 %



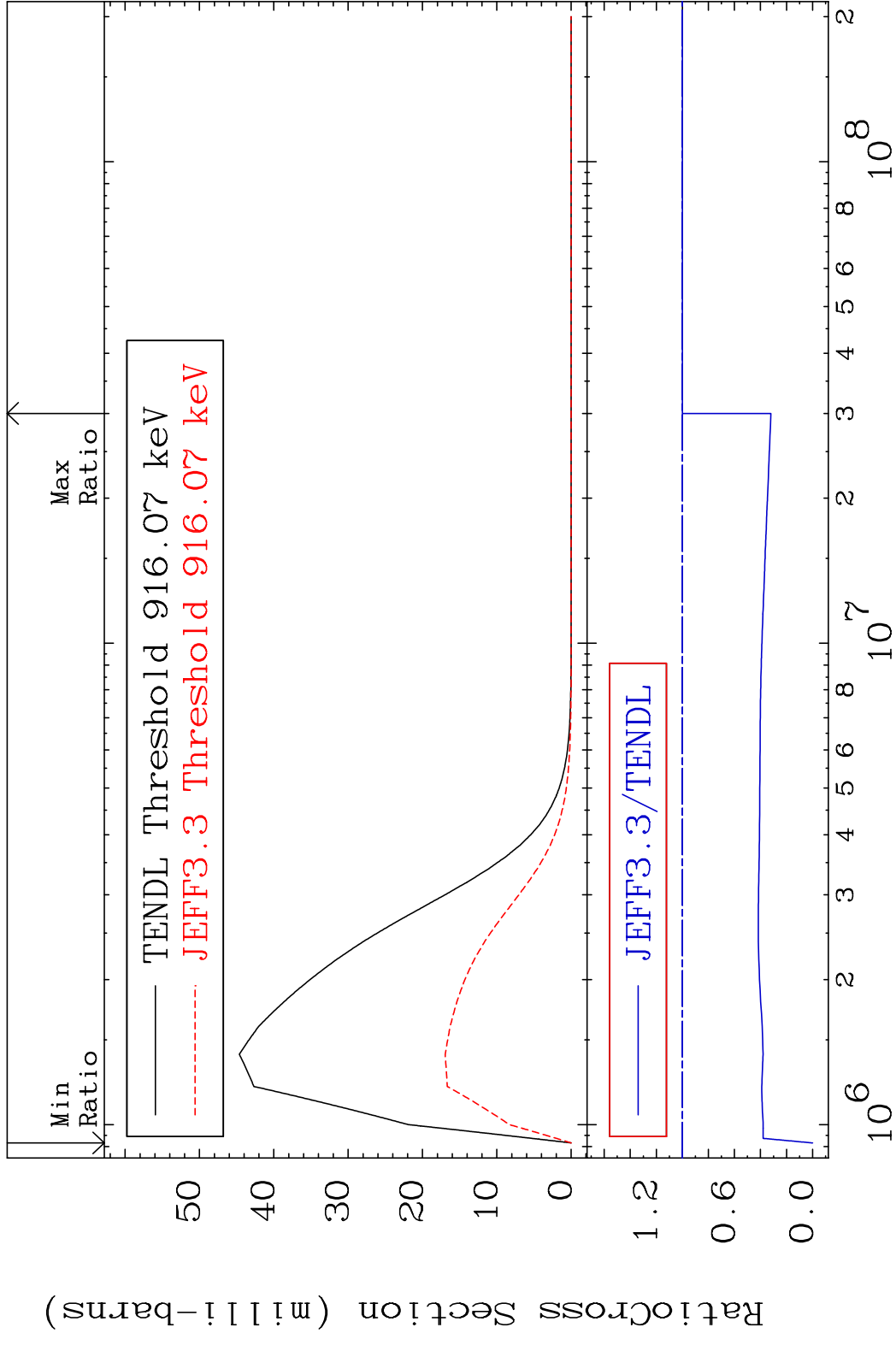
MAT 4440 MT= 67 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 68.80 %



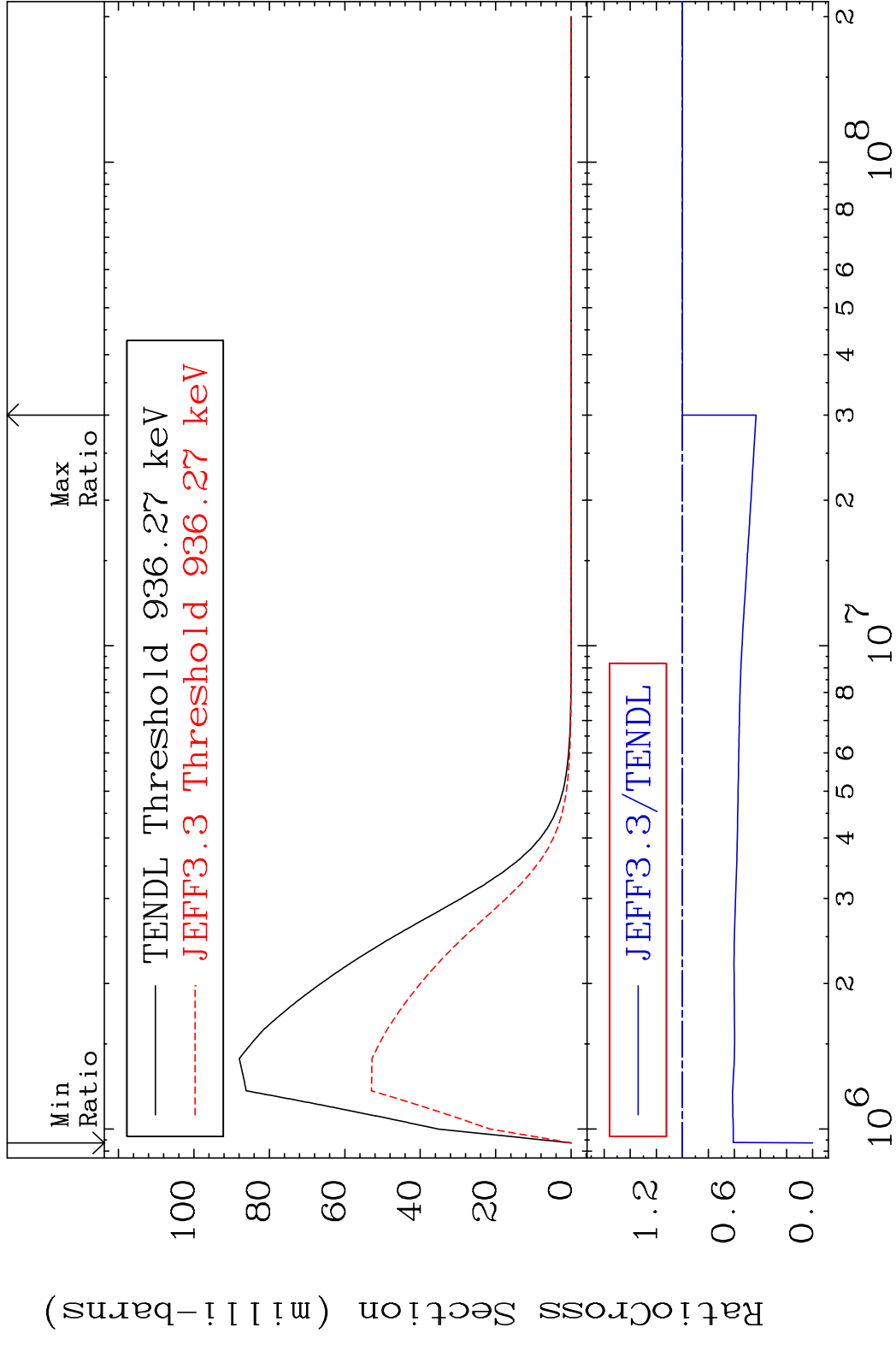
MAT 4440 MT= 68 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 2.457 %



MAT 4440 MT= 69 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 0.000 %

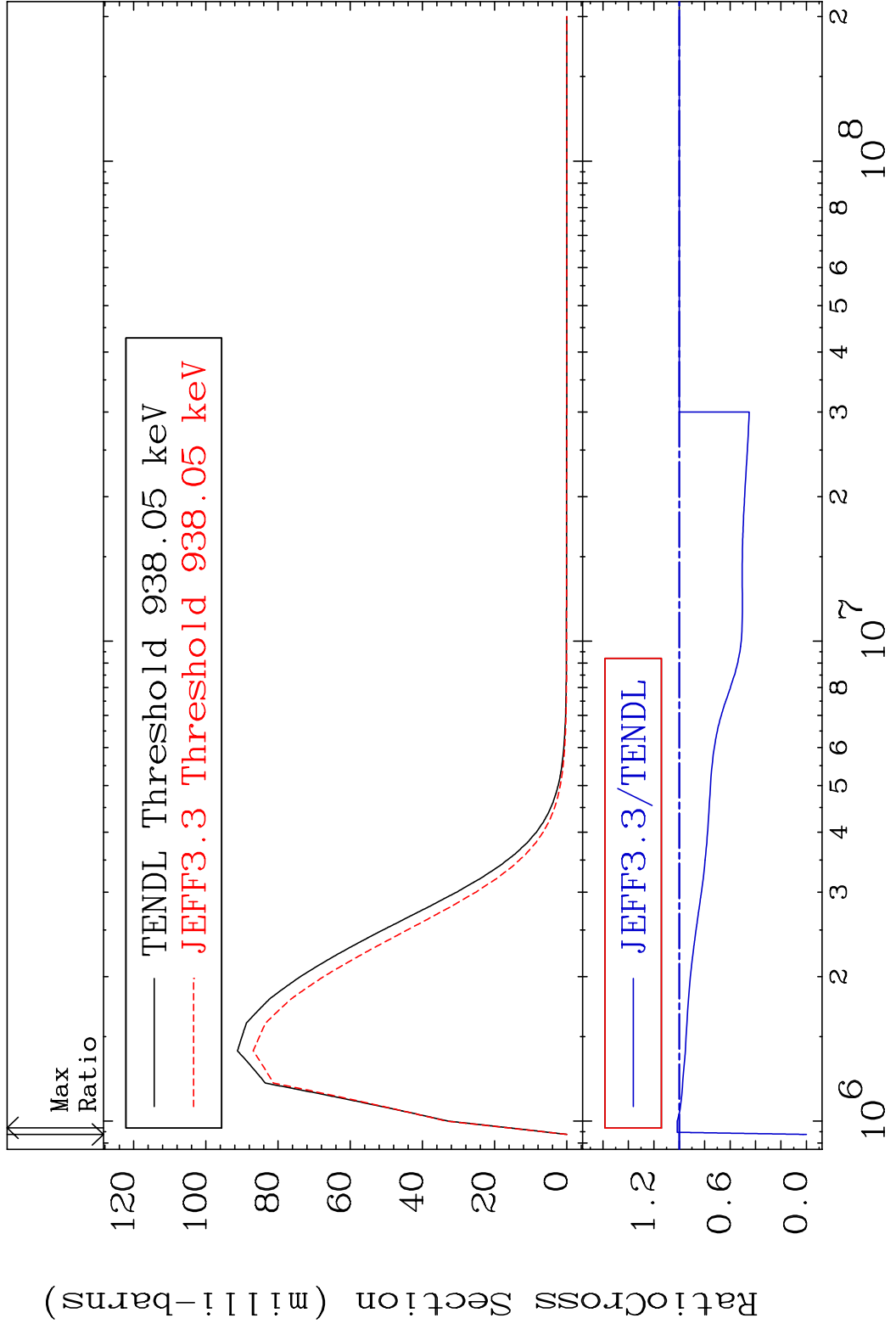


MAT 4440 MT= 70 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 0.000 %

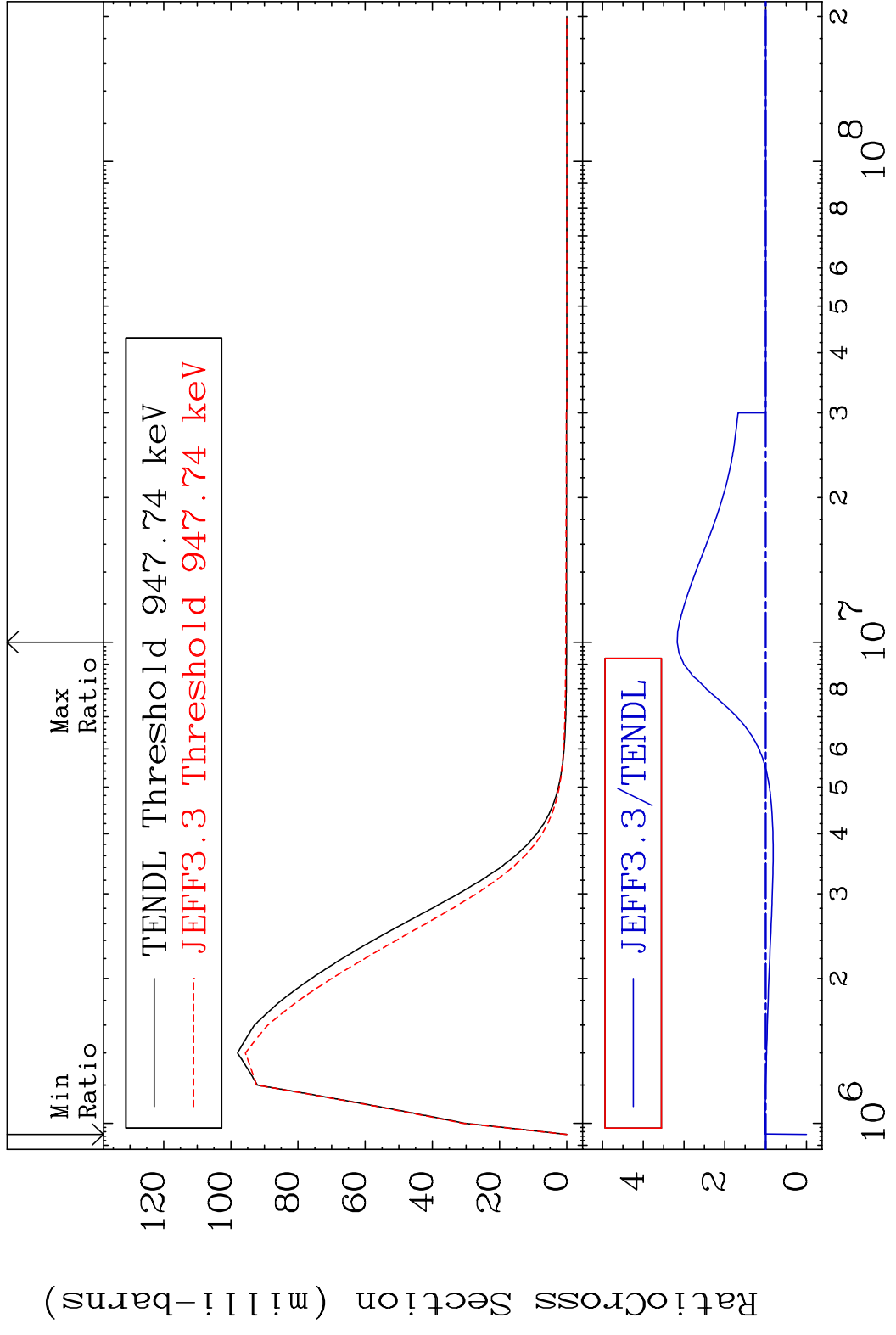


39 Incident Energy (eV) 44-Ru-101

MAT 4440 MT= 71 (n,n') Level 44-Ru-101
 Cross Section -100.0 To 1.618 %

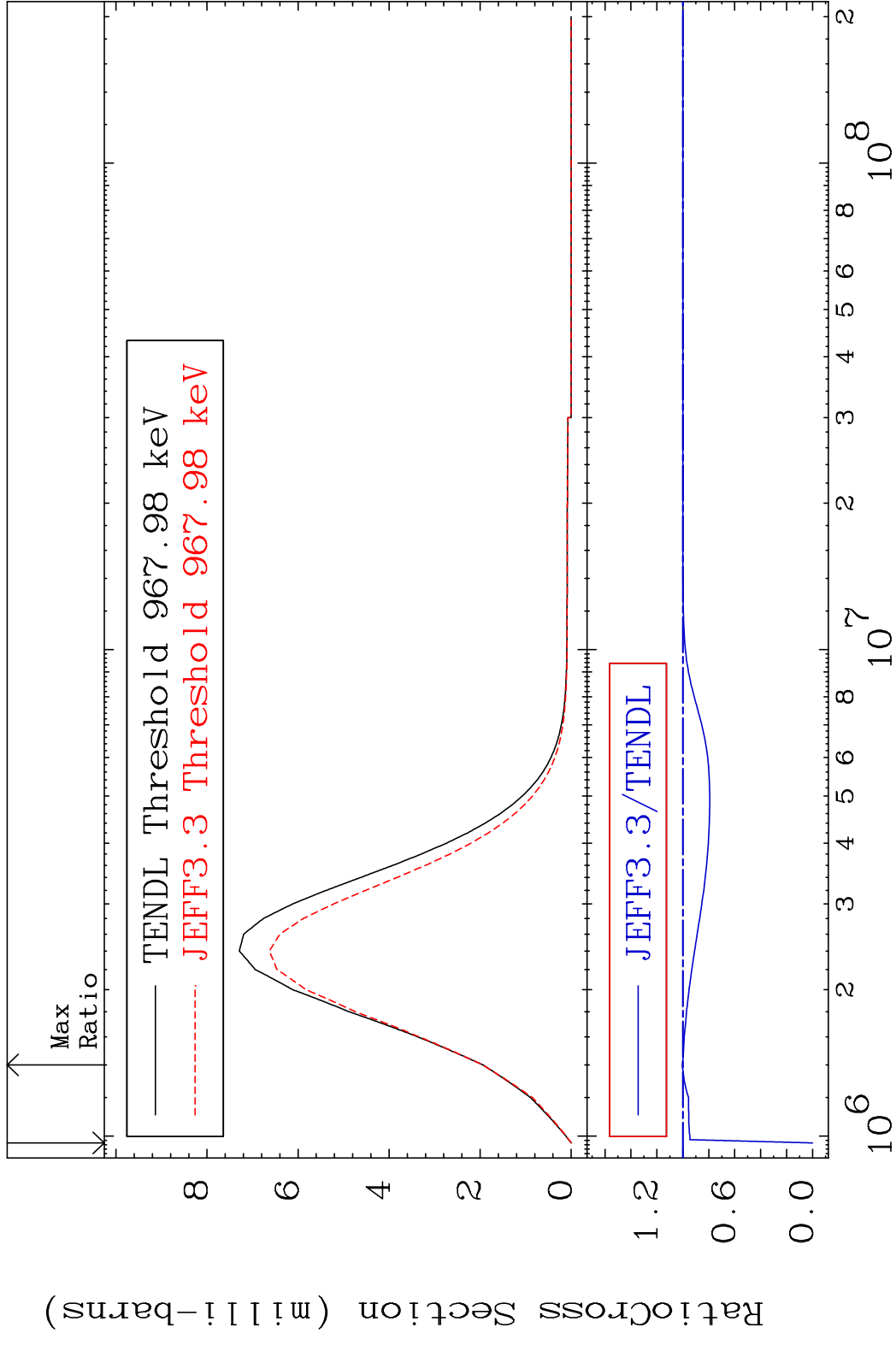


MAT 4440 MT= 72 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 216.8 %



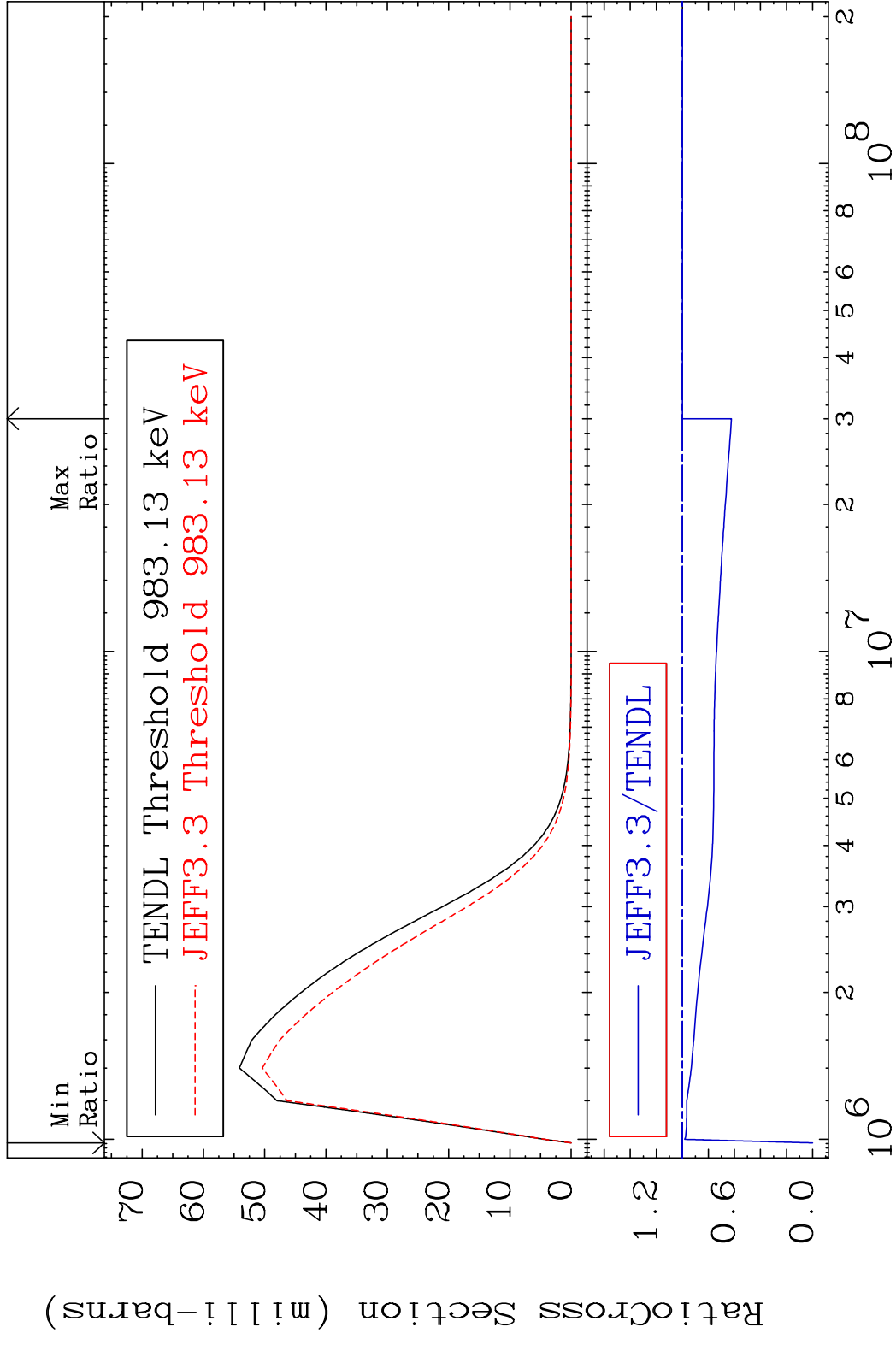
41 Incident Energy (eV) 44-Ru-101

MAT 4440 MT= 73 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 0.363 %



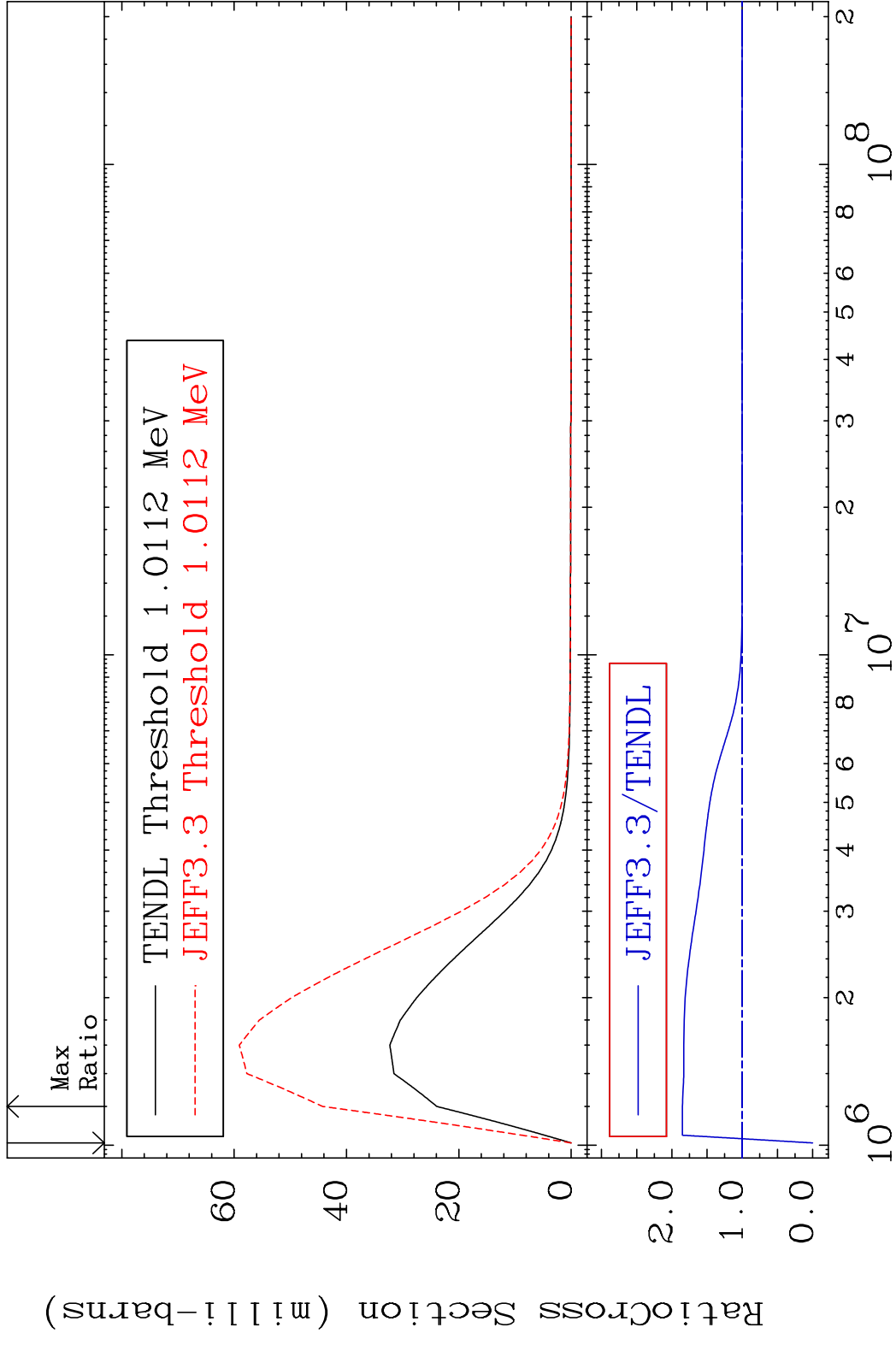
42 Incident Energy (eV) 44-Ru-101

MAT 4440 MT= 74 (n,n') Level 44-Ru-101
 Cross Section -100.0 To 0.000 %



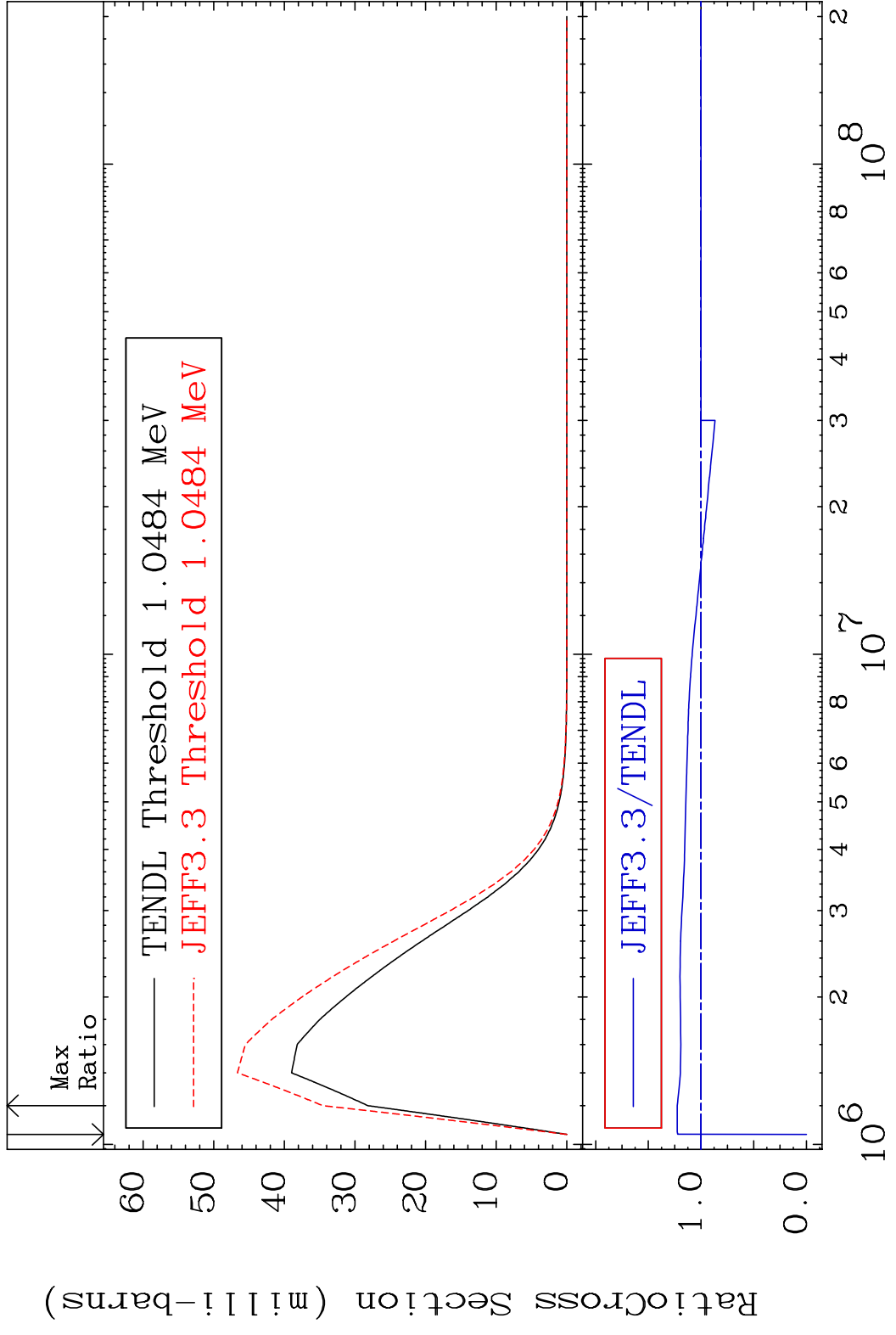
43 Incident Energy (eV) 44-Ru-101

MAT 4440 MT= 75 (n,n') Level 44-Ru-101
 Cross Section -100.0 To 85.07 %



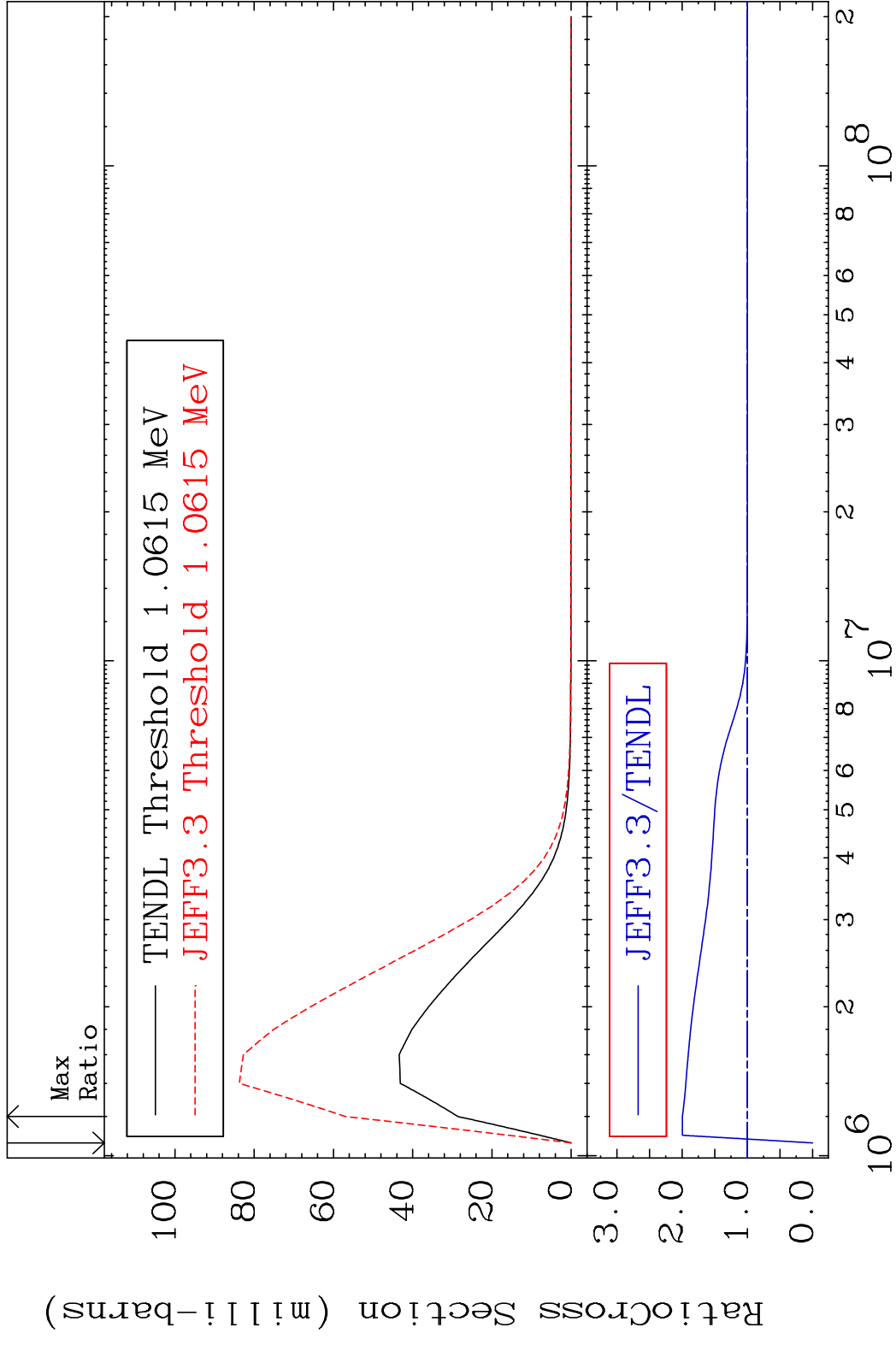
44 44-Ru-101

MAT 4440 MT= 76 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 22.64 %



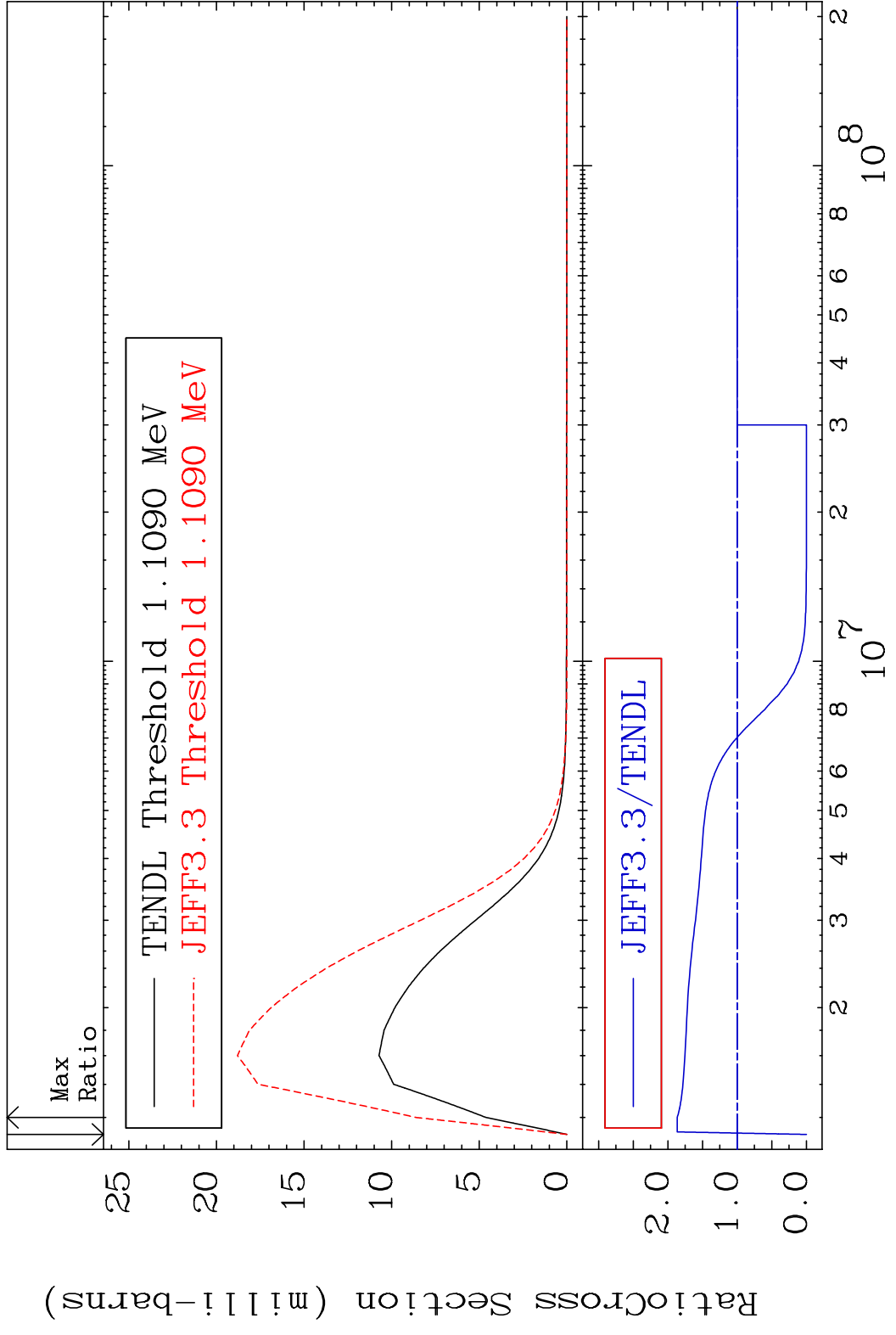
45 Incident Energy (eV) 44-Ru-101

MAT 4440 MT= 77 (n,n') Level 44-Ru-101
 Cross Section -100.0 To 99.57 %

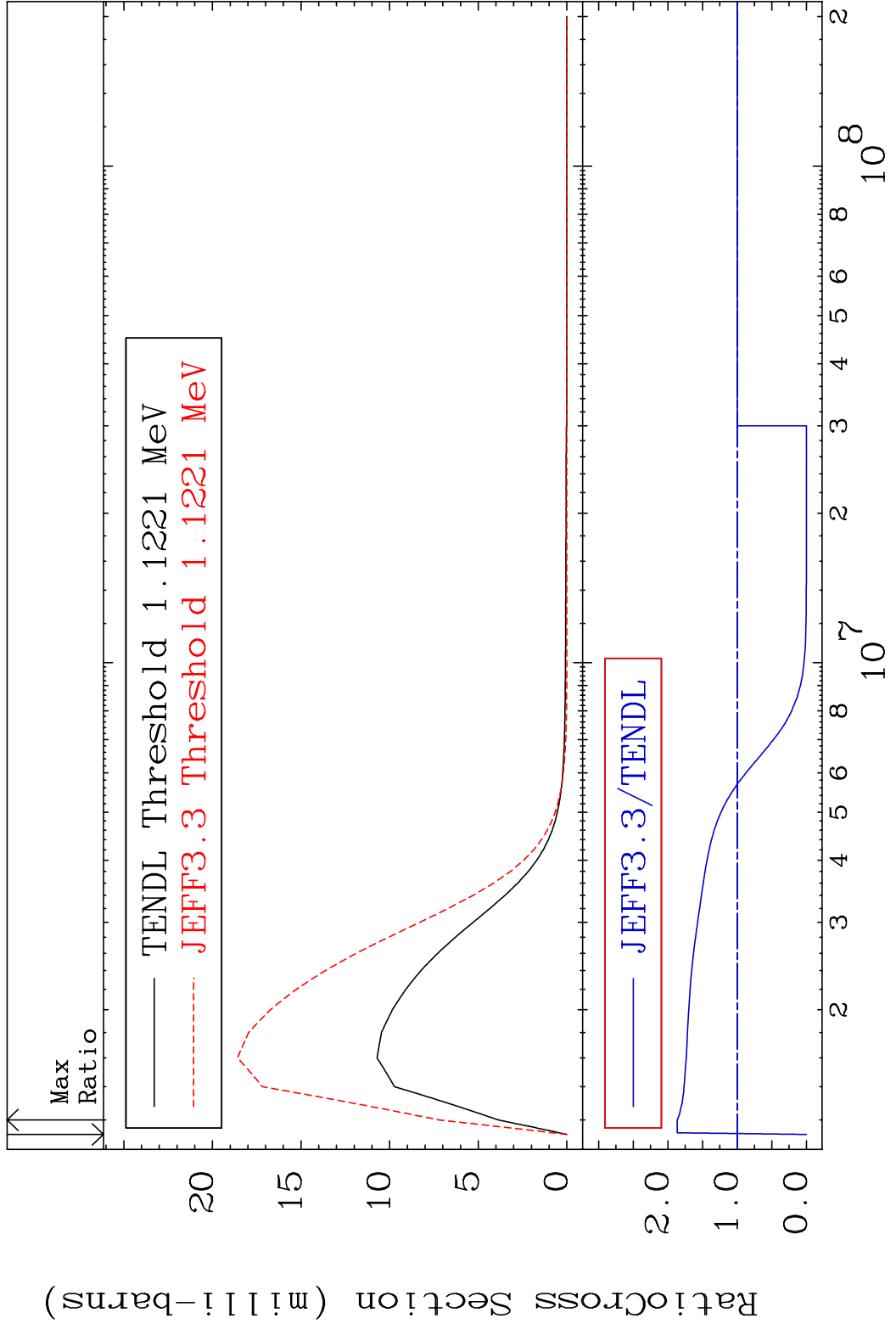


46 Incident Energy (eV) 44-Ru-101

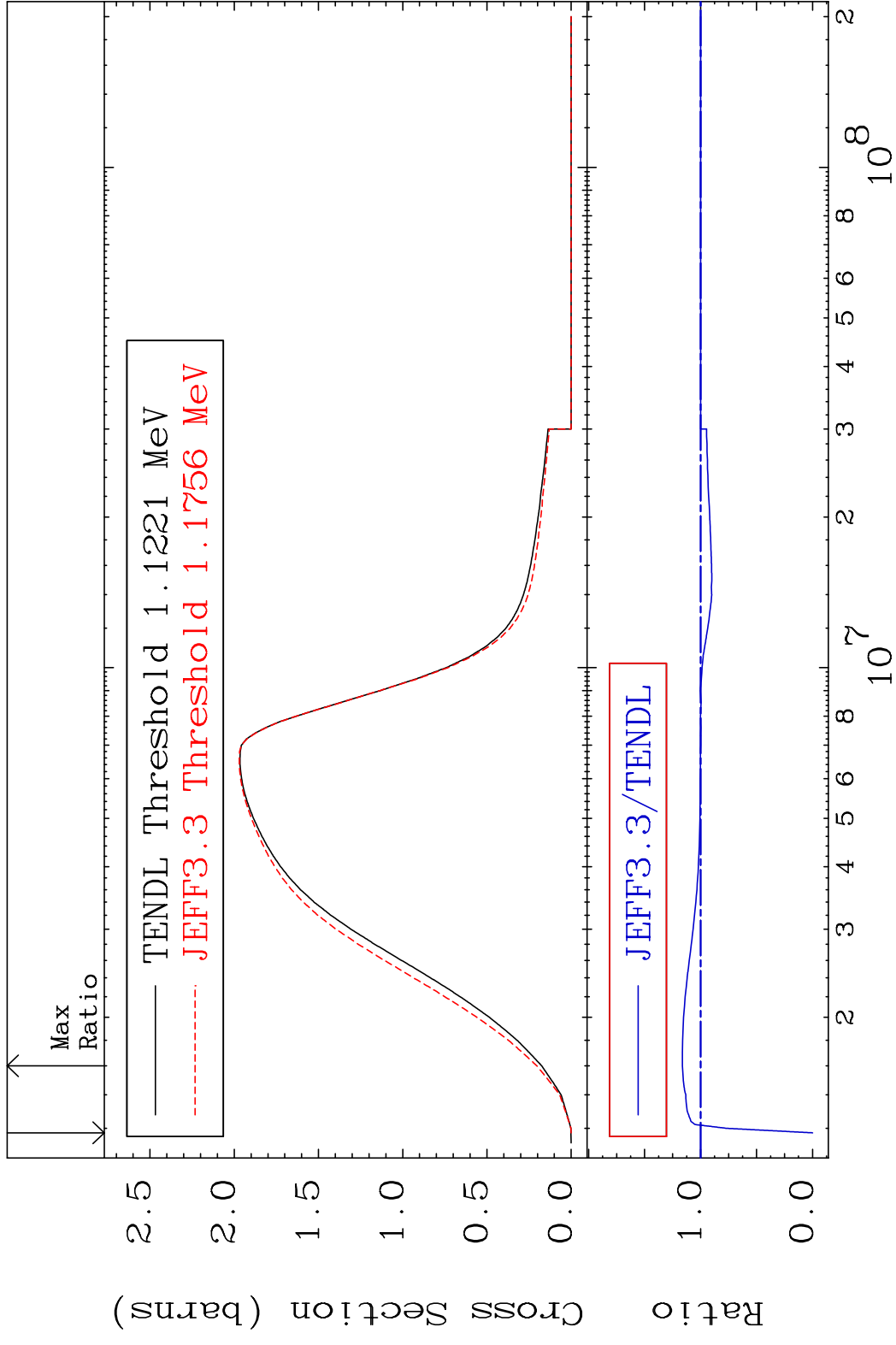
MAT 4440 MT= 78 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 86.57 %



MAT 4440 MT= 79 (n, n') Level 44-Ru-101
 Cross Section -100.0 To 86.57 %



MAT 4440 (n, n') Continuum 44-Ru-101
 Cross Section -100.0 To 16.30 %

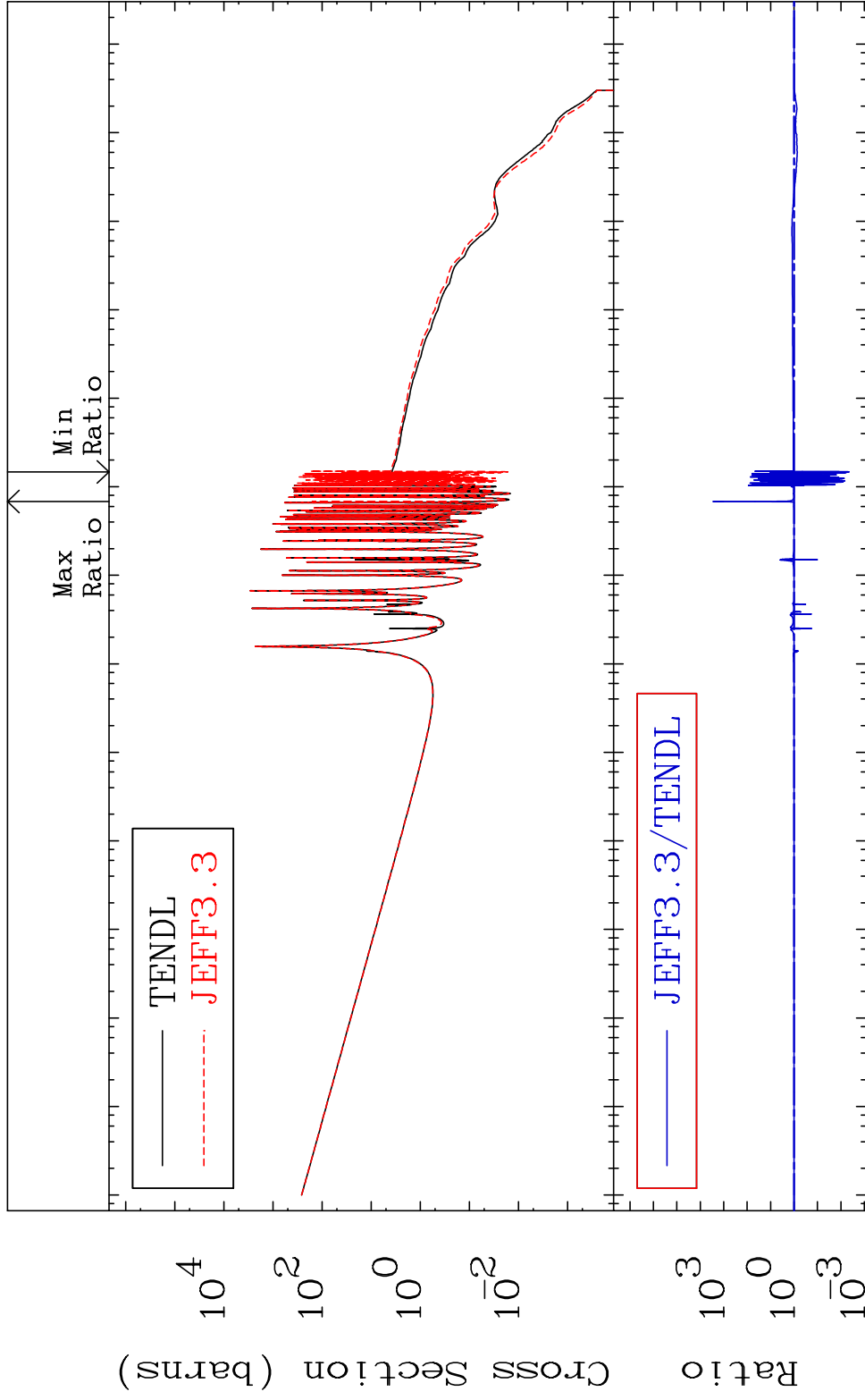


MAT 4440

(n, γ)

44-Ru-101

Cross Section -99.56 To 9999. %



50

Incident Energy (eV)

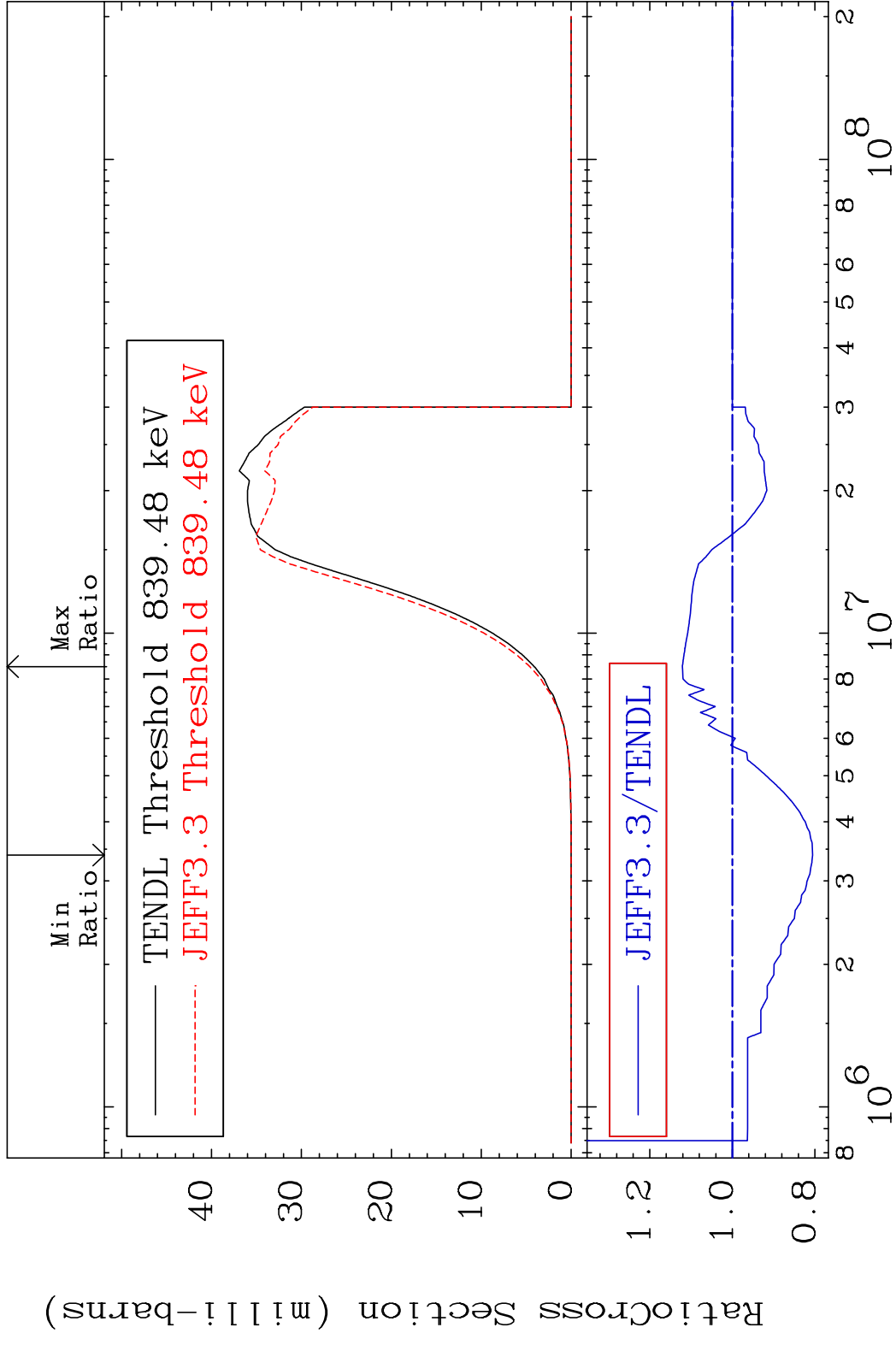
44-Ru-101

MAT 4440

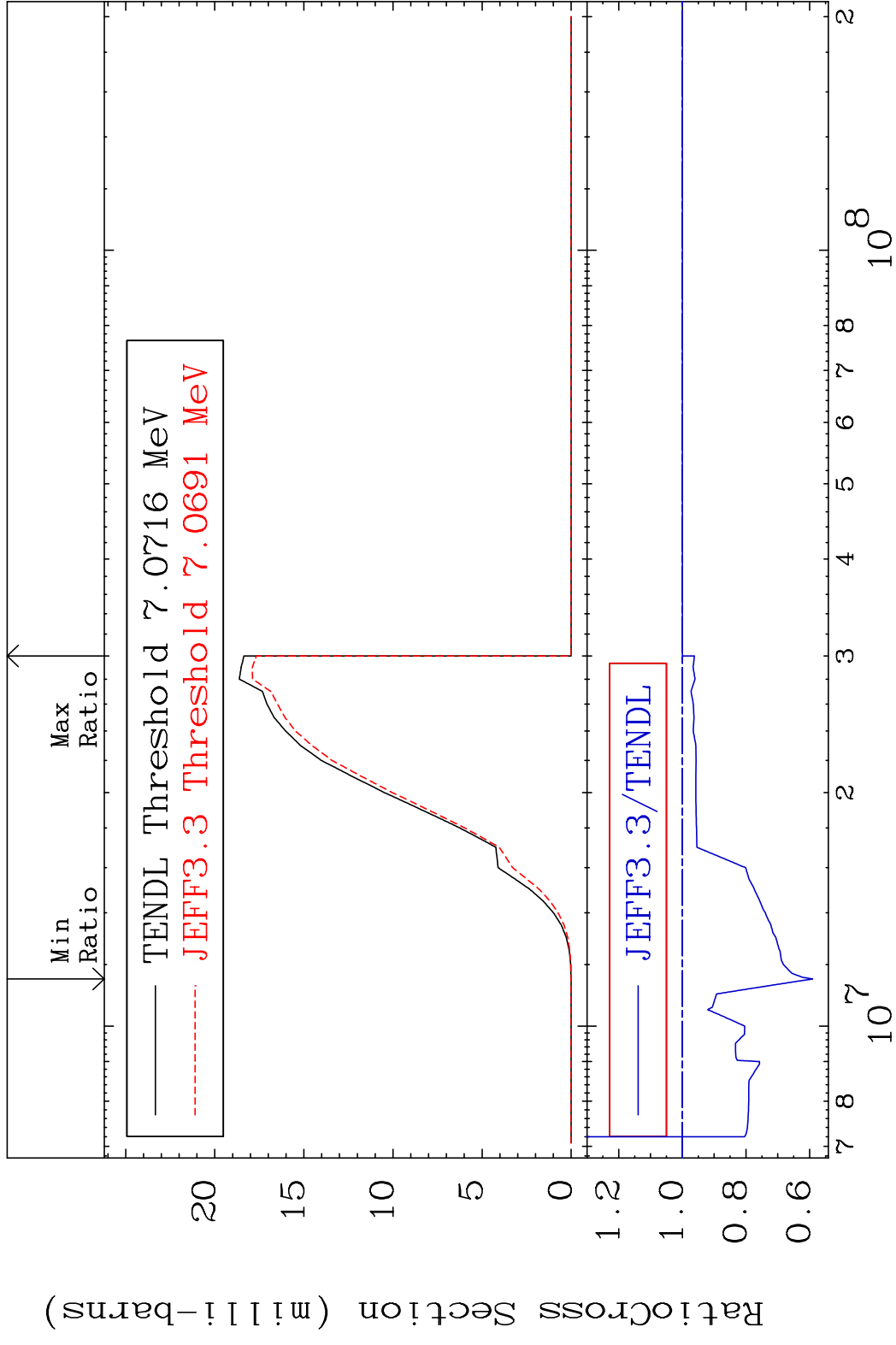
(n, p)

44-Ru-101

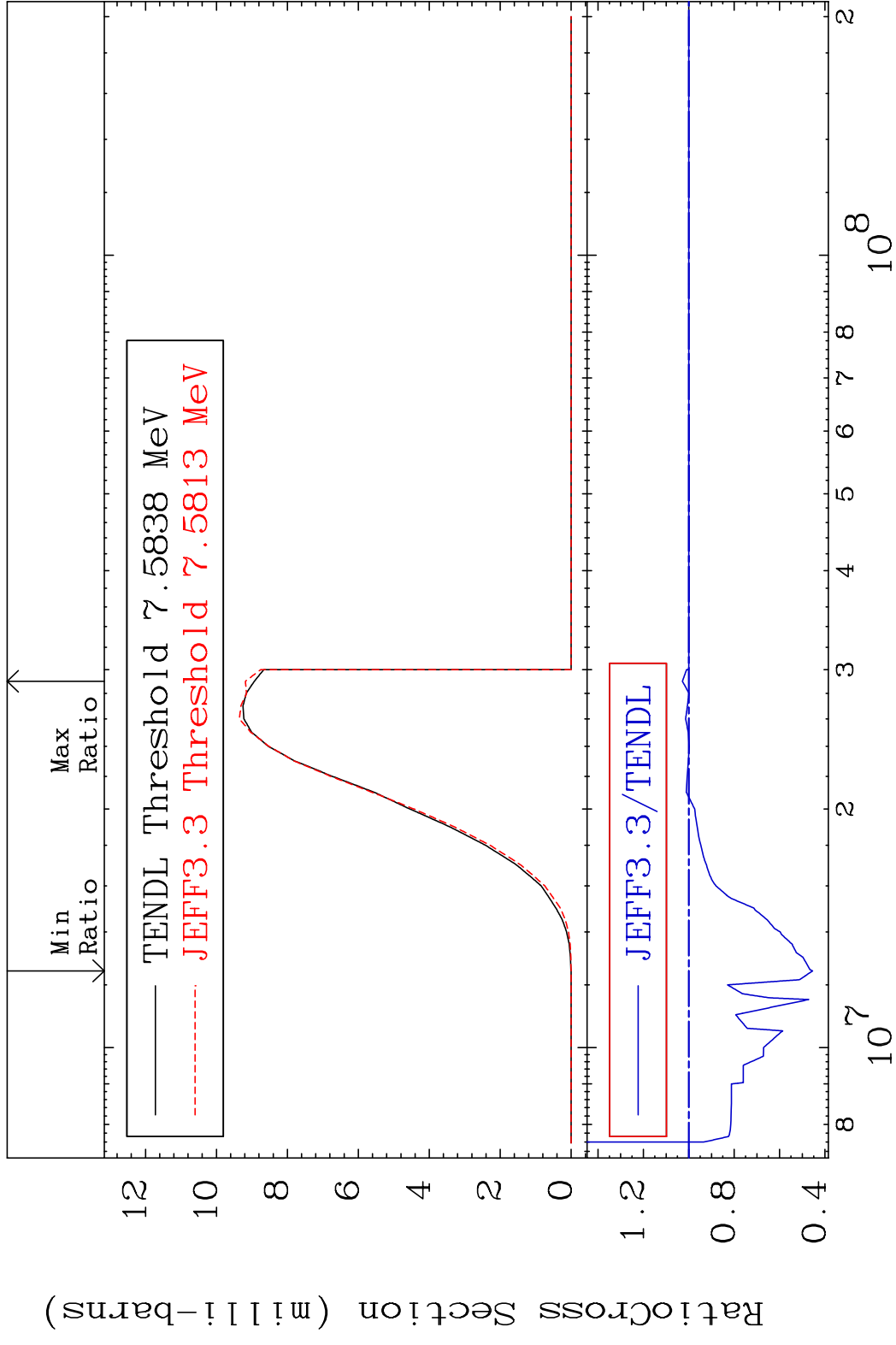
Cross Section -19.42 To 12.10 %



MAT 4440 (n,d) 44-Ru-101
 Cross Section -40.93 To 0.000 %

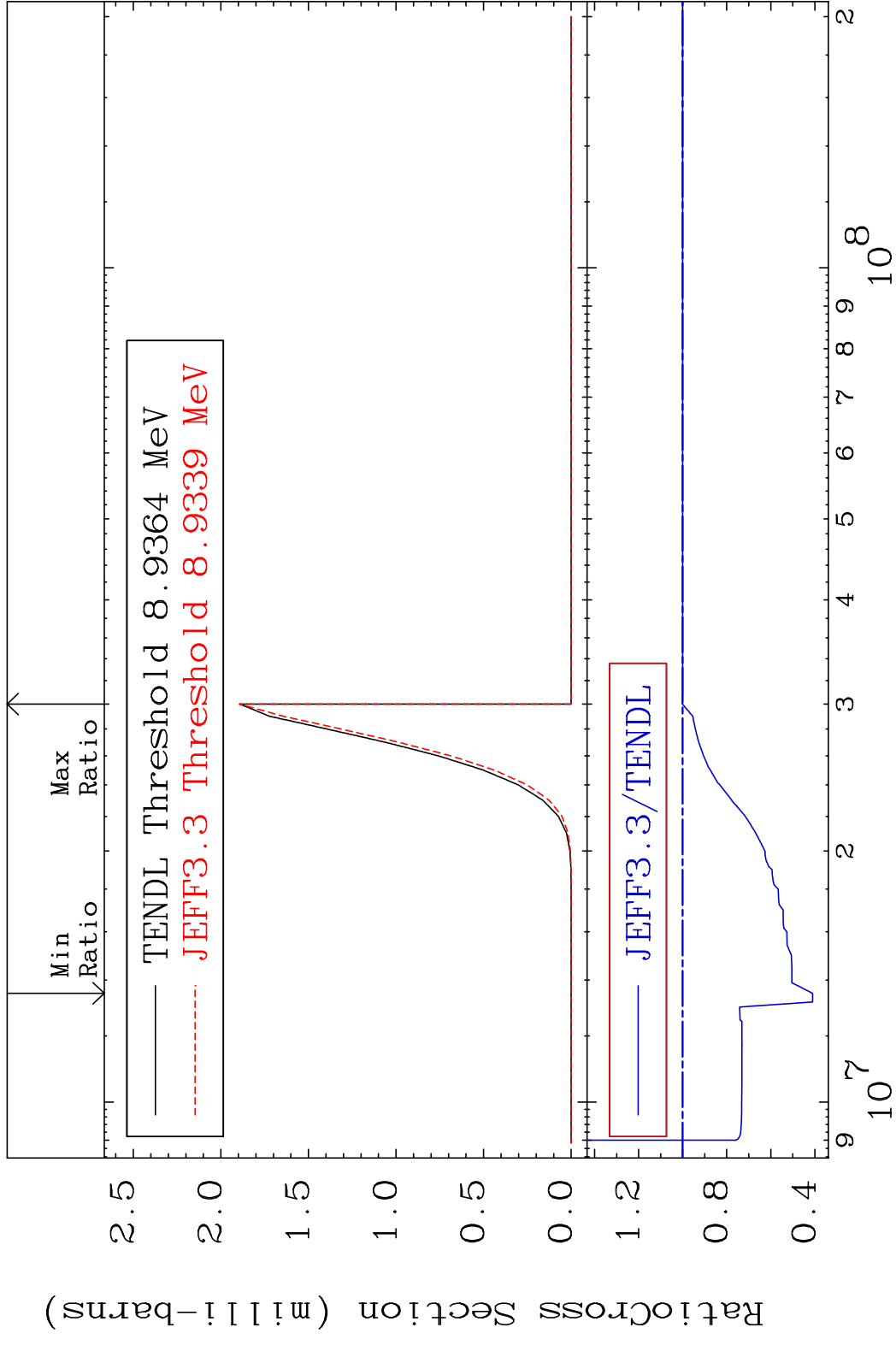


MAT 4440 (n, t) 44-Ru-101
 Cross Section -54.51 To 2.836 %



53 Incident Energy (eV) 44-Ru-101

MAT 4440 (n, He-3) 44-Ru-101
 Cross Section -58.97 To 0.153 %

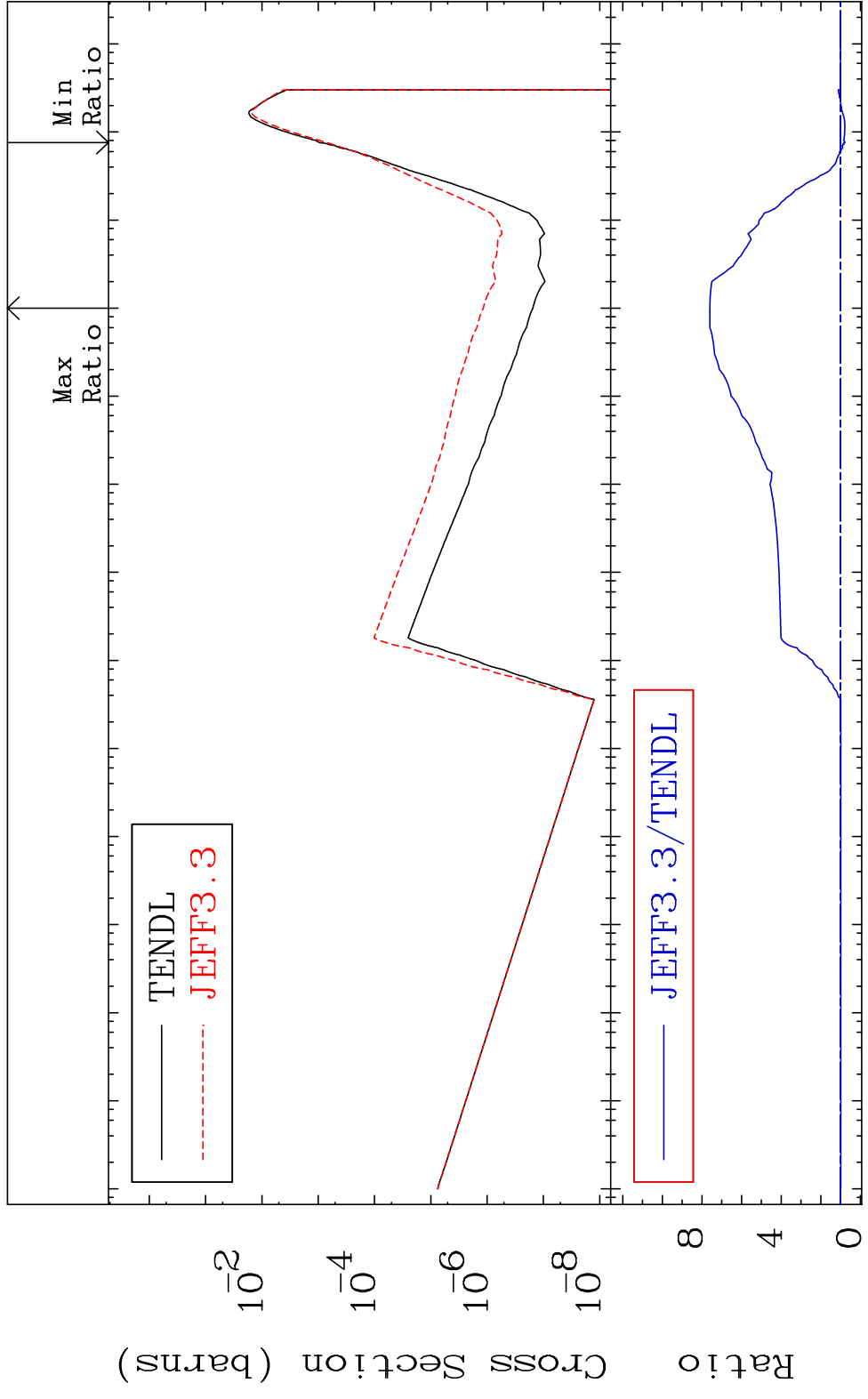


MAT 4440

(n, α)

44-Ru-101

Cross Section -23.15 To 660.4 %



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

55

Incident Energy (eV)

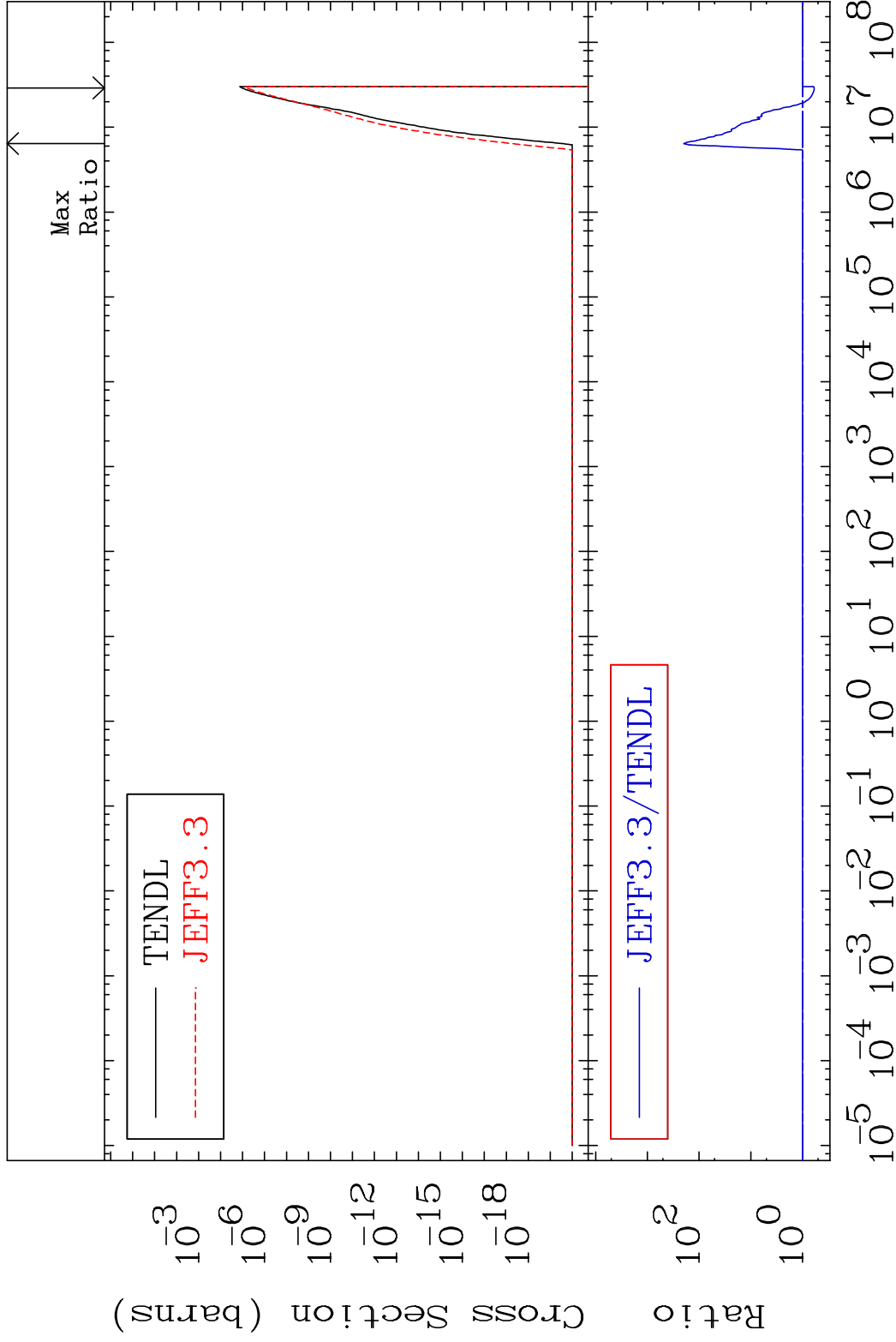
44-Ru-101

MAT 4440

(n, 2α)

44-Ru-101

Cross Section -40.50 To 9999. %

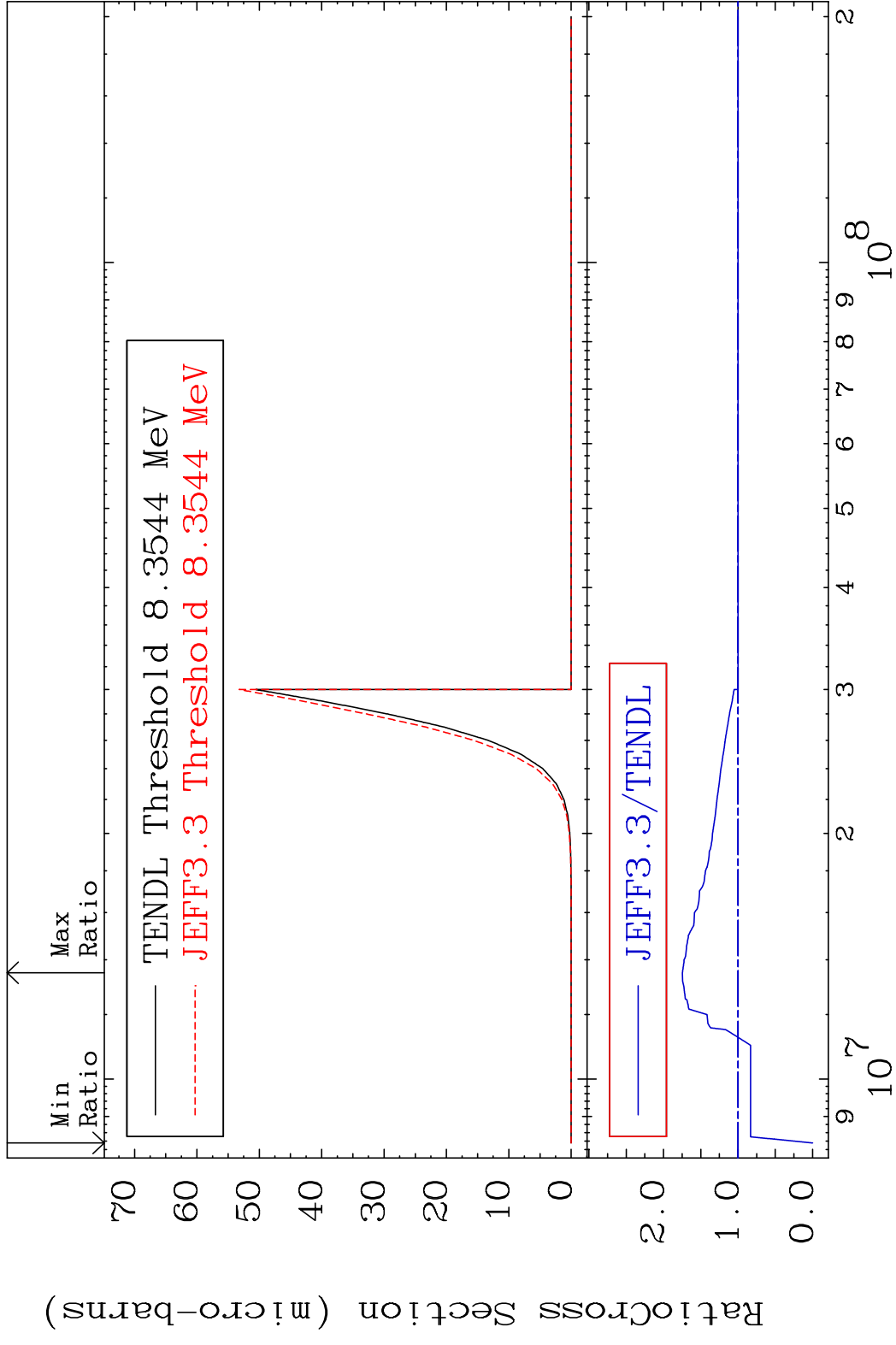


56

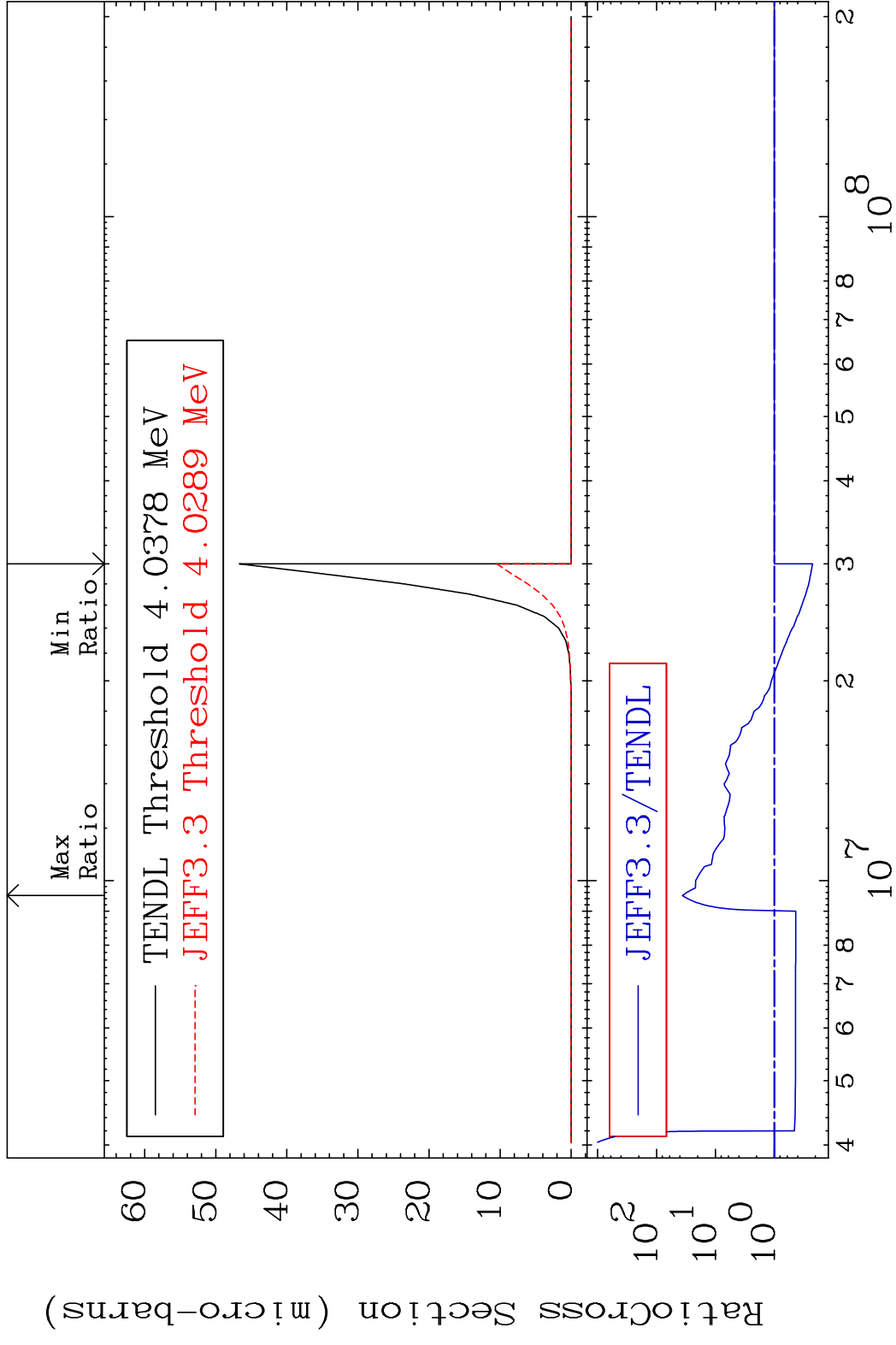
Incident Energy (eV)

44-Ru-101

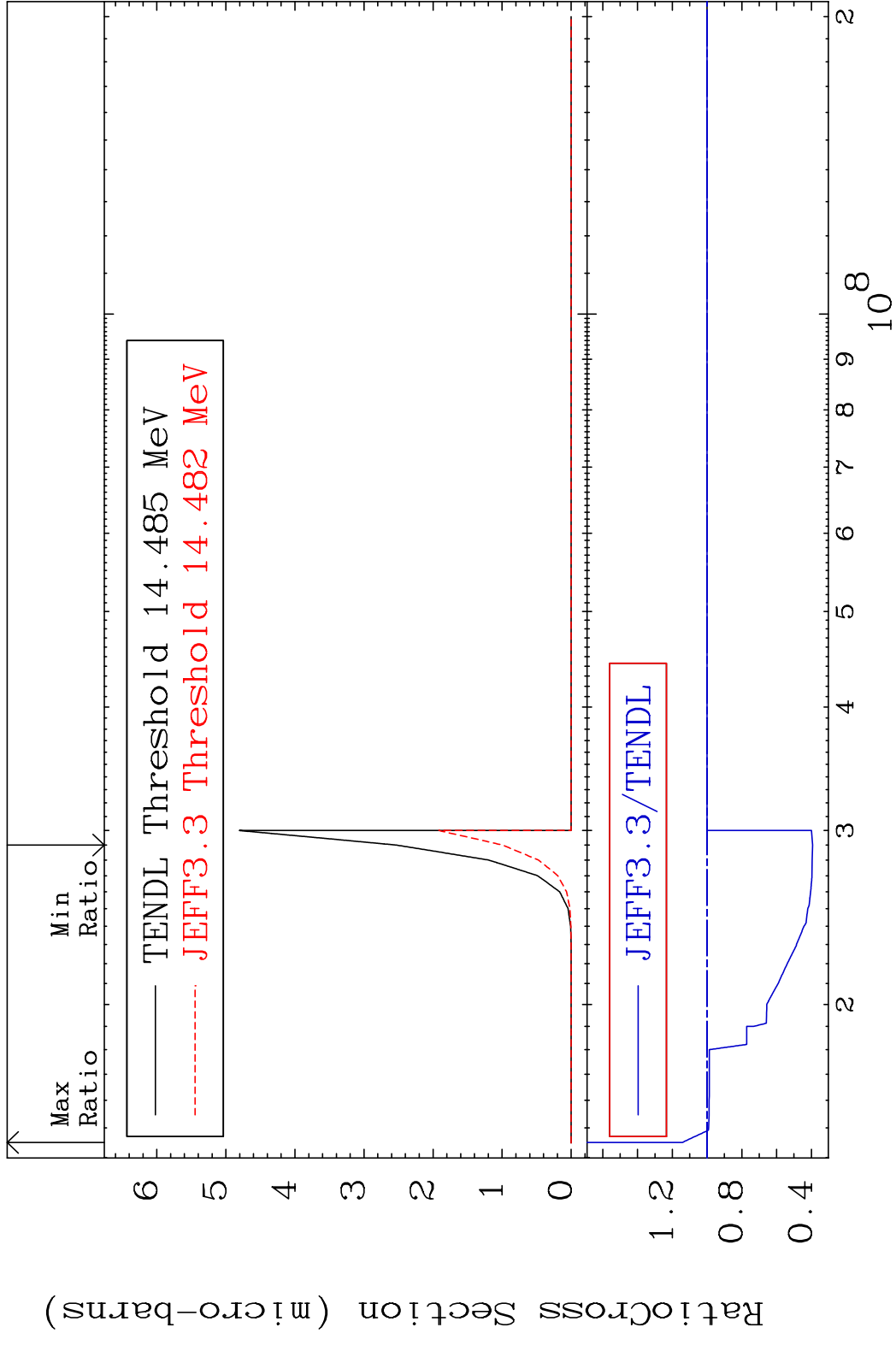
MAT 4440 (n,2p) 44-Ru-101
 Cross Section -100.0 To 74.70 %



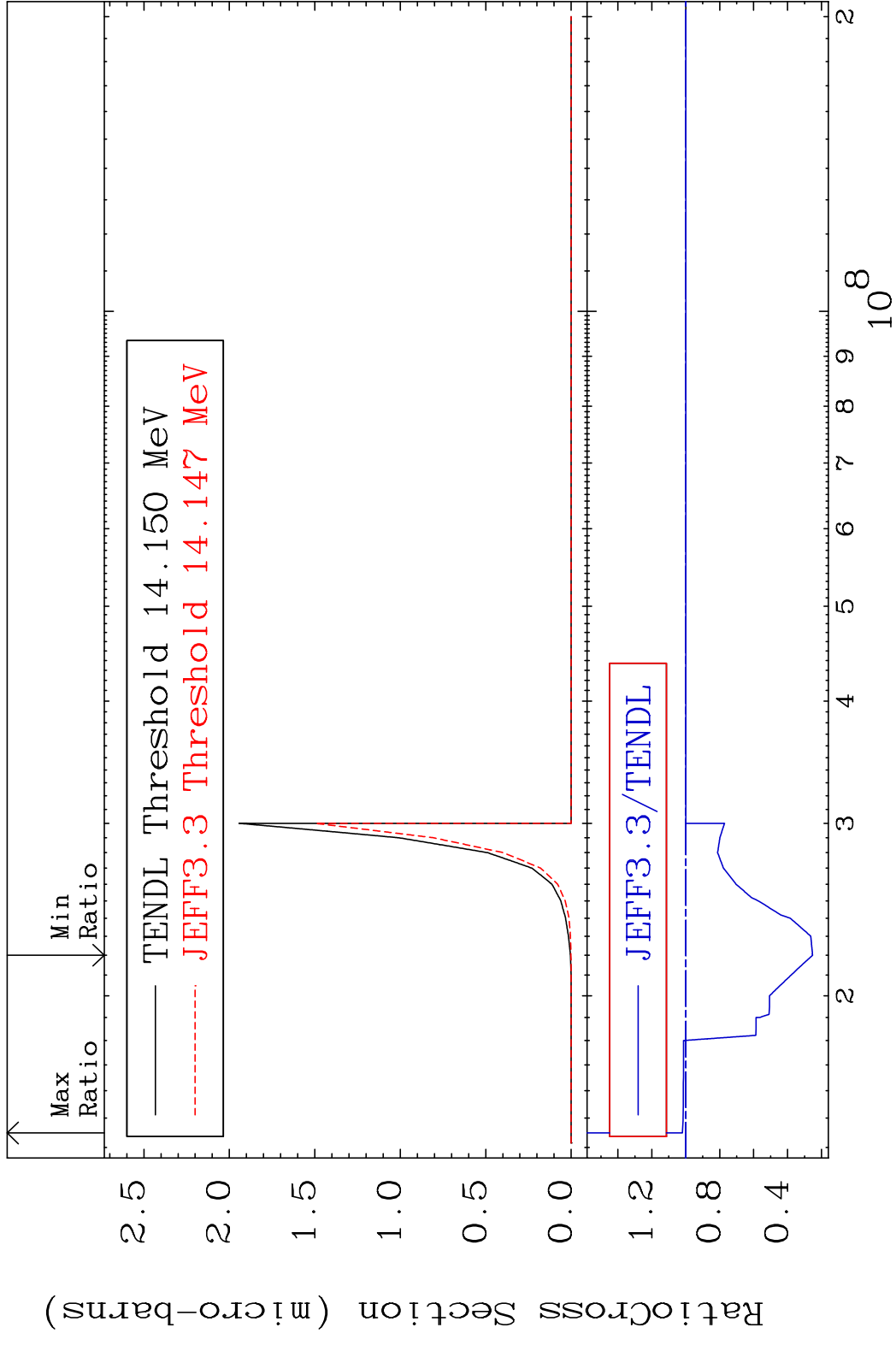
MAT 4440 (n,p) α 44-Ru-101
 Cross Section -77.60 To 3542. %



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 %

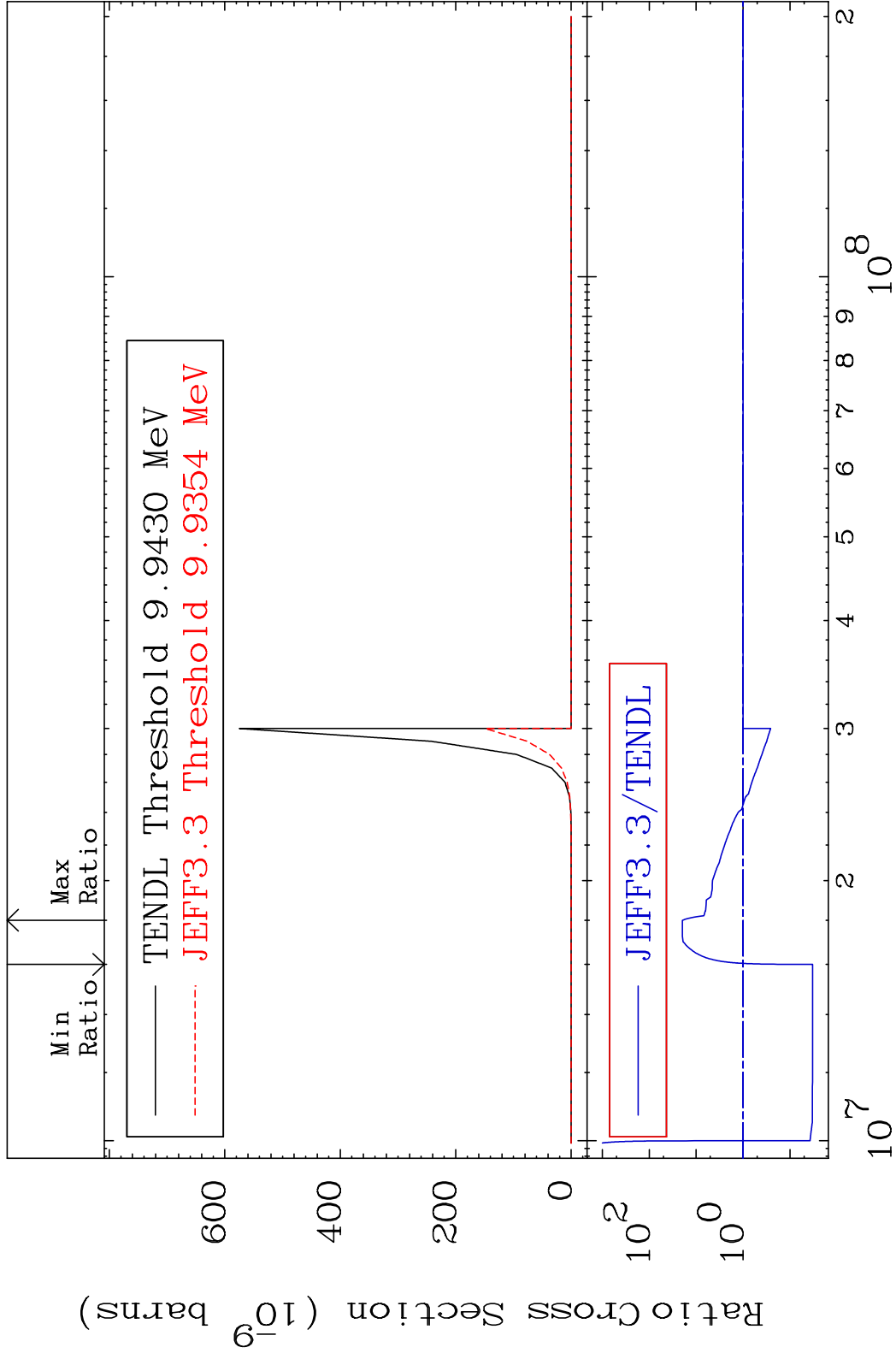


MAT 4440

(n,d) α

44-Ru-101

Cross Section -96.69 To 1869. %



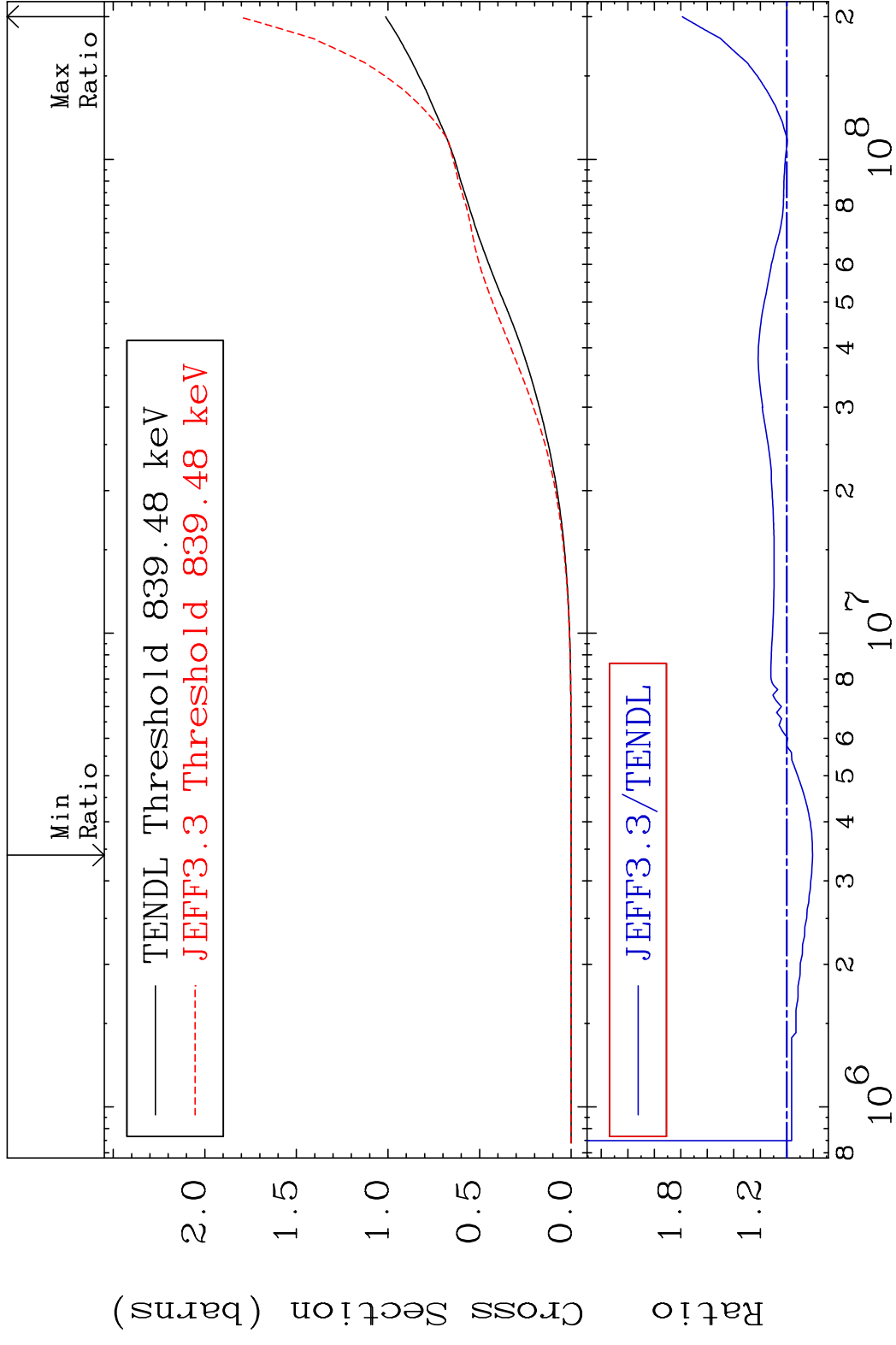
61

Incident Energy (eV)

44-Ru-101

MAT 4440

Hydrogen Production 44-Ru-101
Cross Section -19.42 To 78.83 %



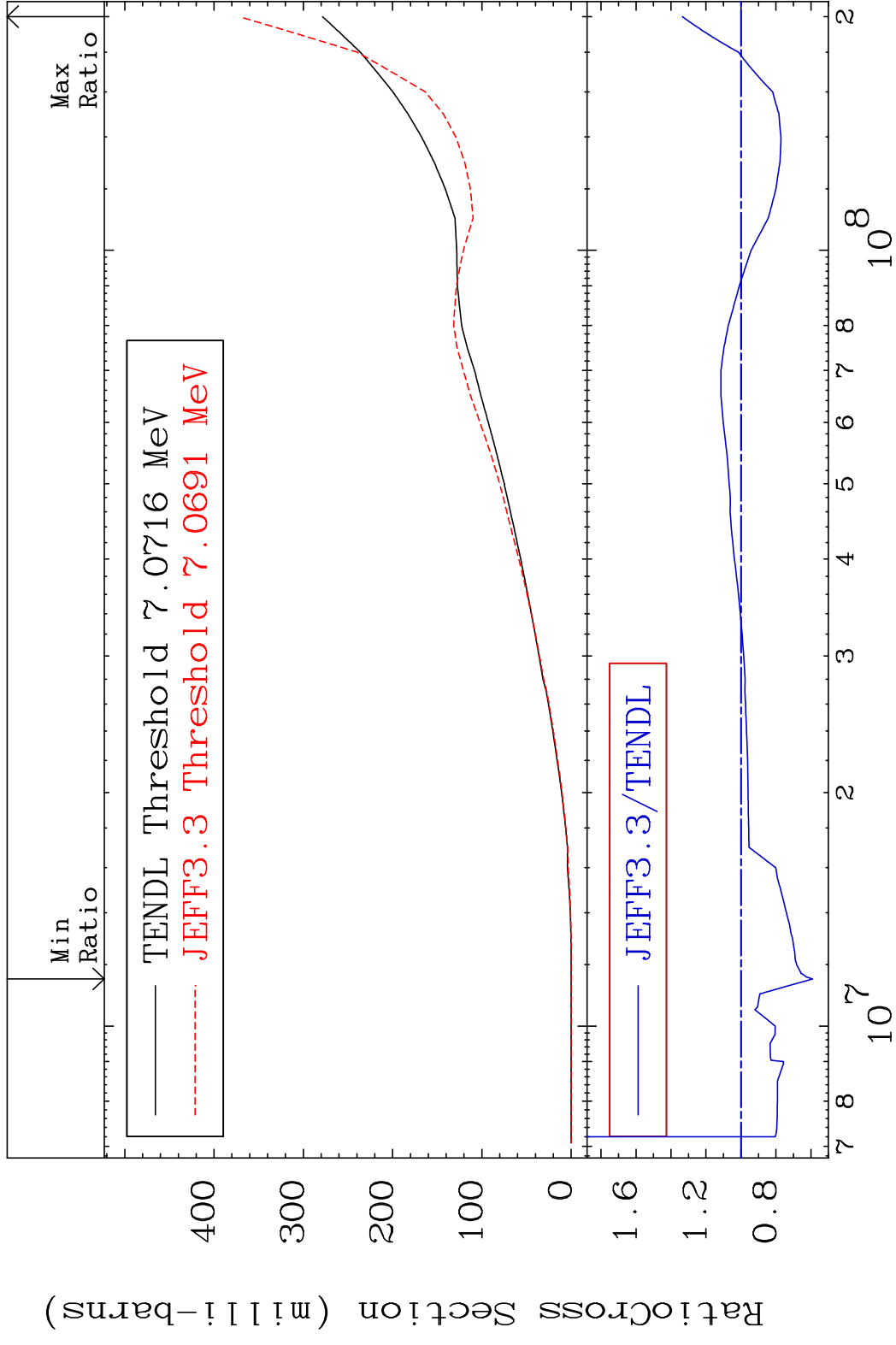
62

Incident Energy (eV)

44-Ru-101

MAT 4440

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



63

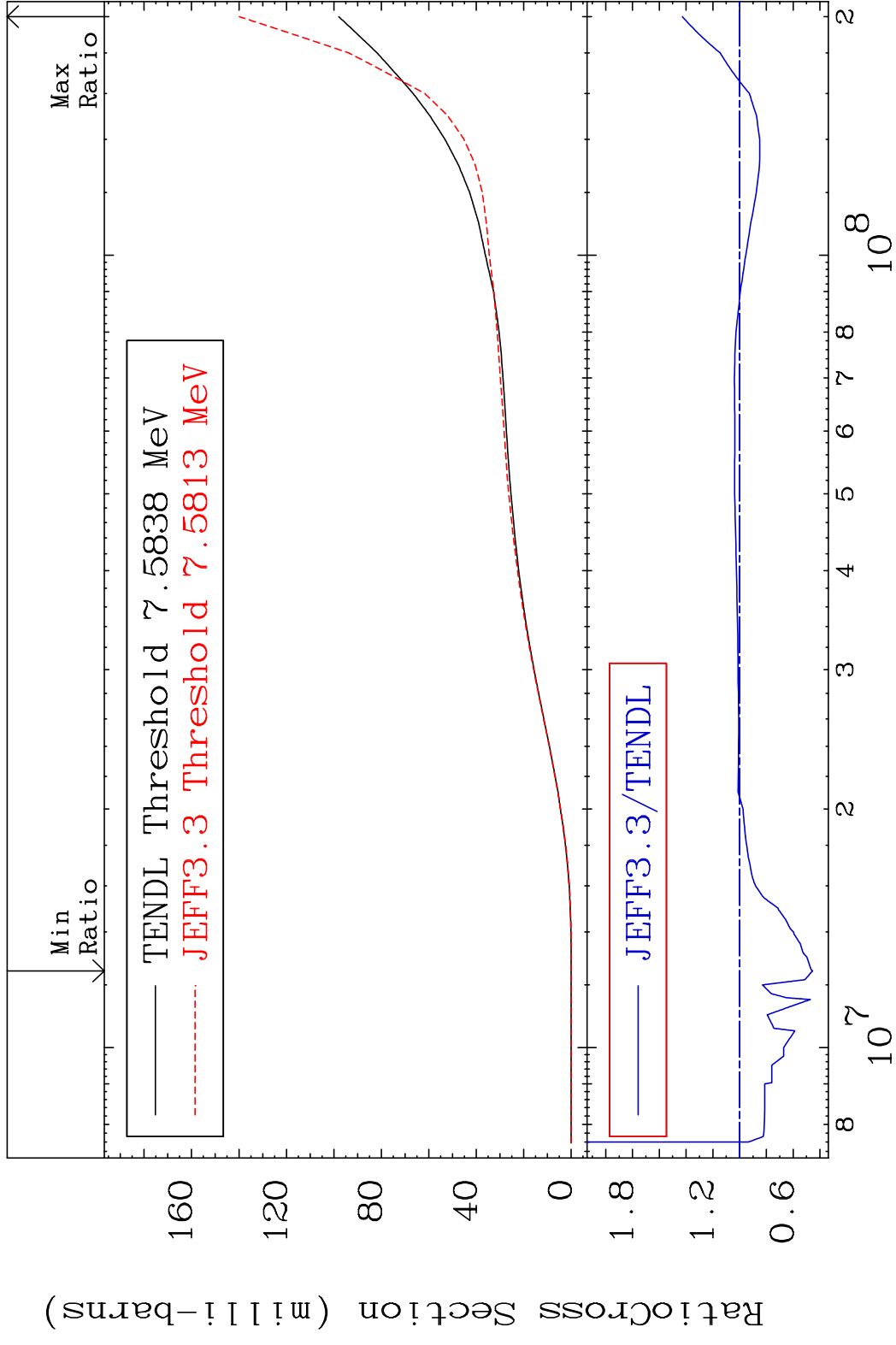
Incident Energy (eV) 44-Ru-101

MAT 4440

Tritium Production

44-Ru-101

Cross Section -54.51 To 42.78 %



64

Incident Energy (eV)

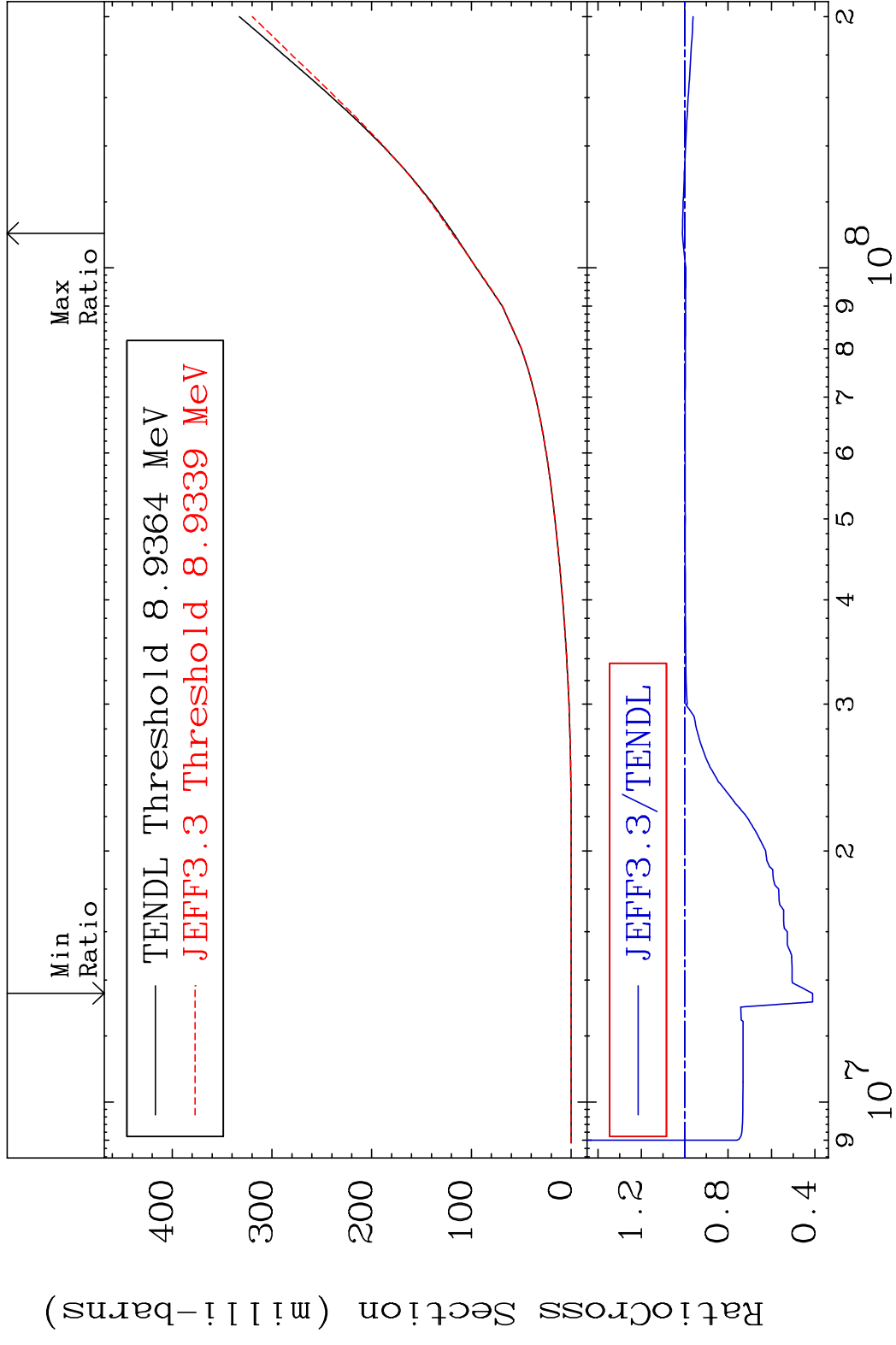
44-Ru-101

MAT 4440

He-3 Production

44-Ru-101

Cross Section -58.97 To 1.105 %



65

Incident Energy (eV)

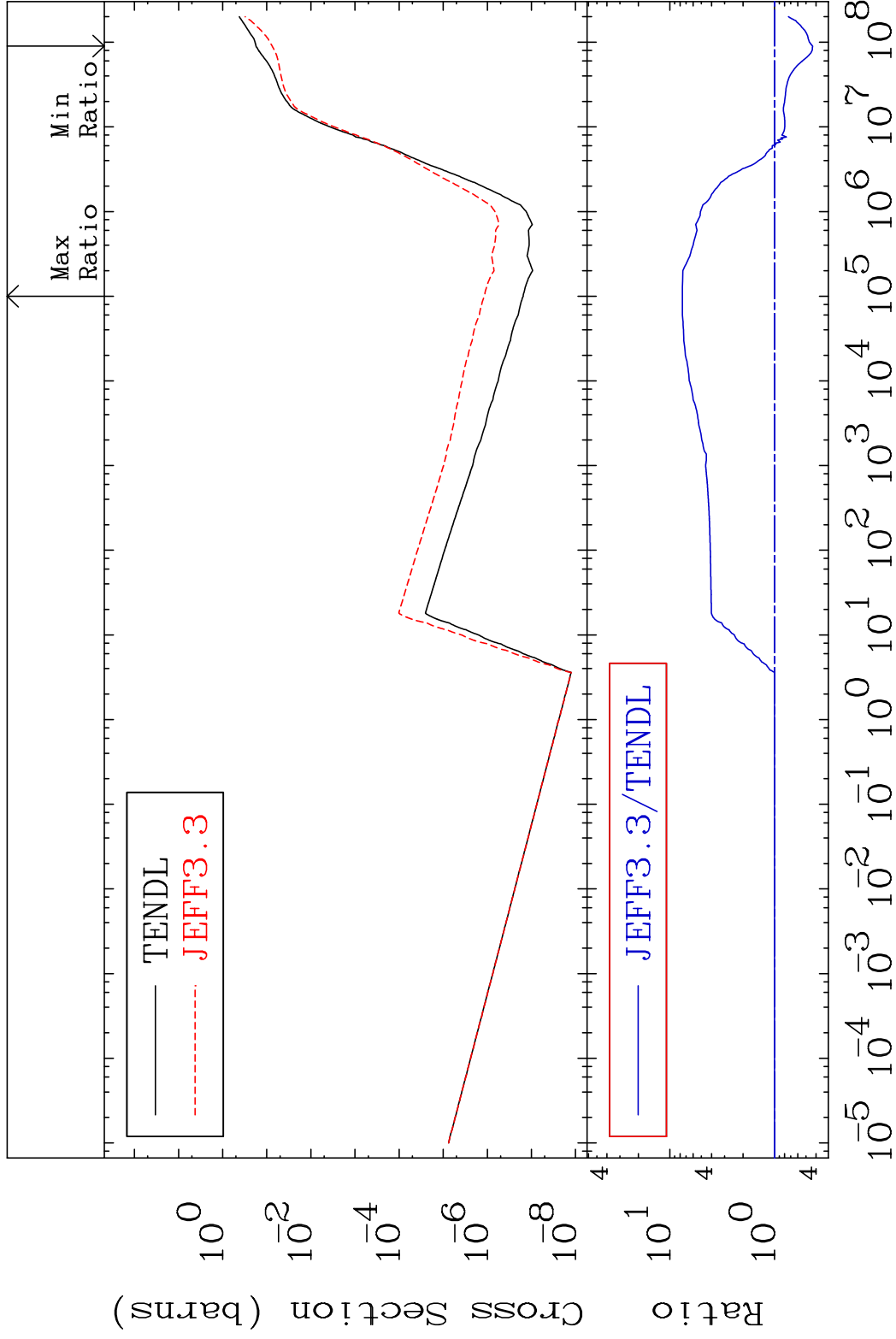
44-Ru-101

MAT 4440

He-4 Production

44-Ru-101

Cross Section -56.72 To 660.4 %



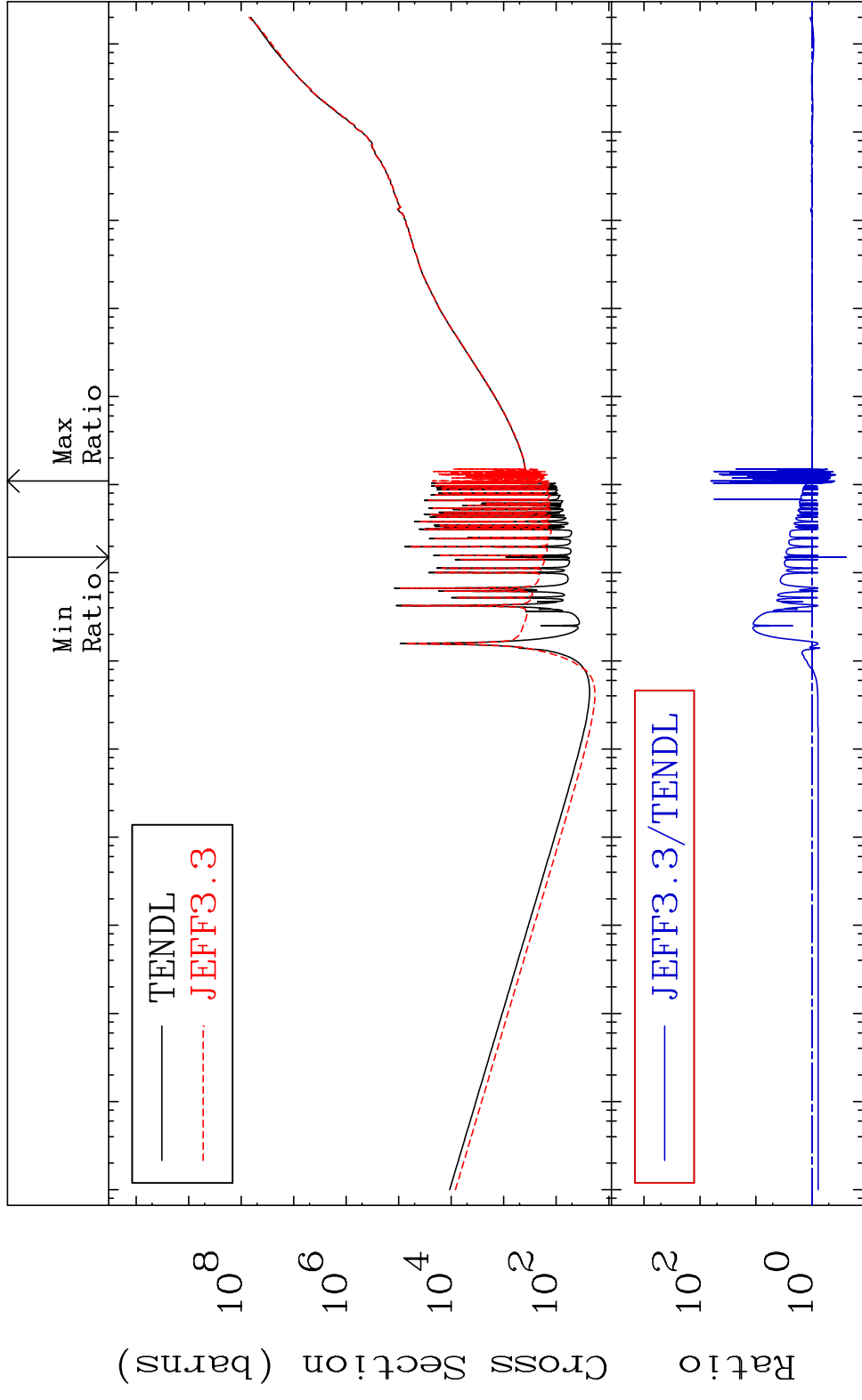
66

Incident Energy (eV)

44-Ru-101

MAT 4440

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



10⁸
10⁶
10⁴
10²
10⁰
10⁻²
10⁻⁴
10⁻⁵

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

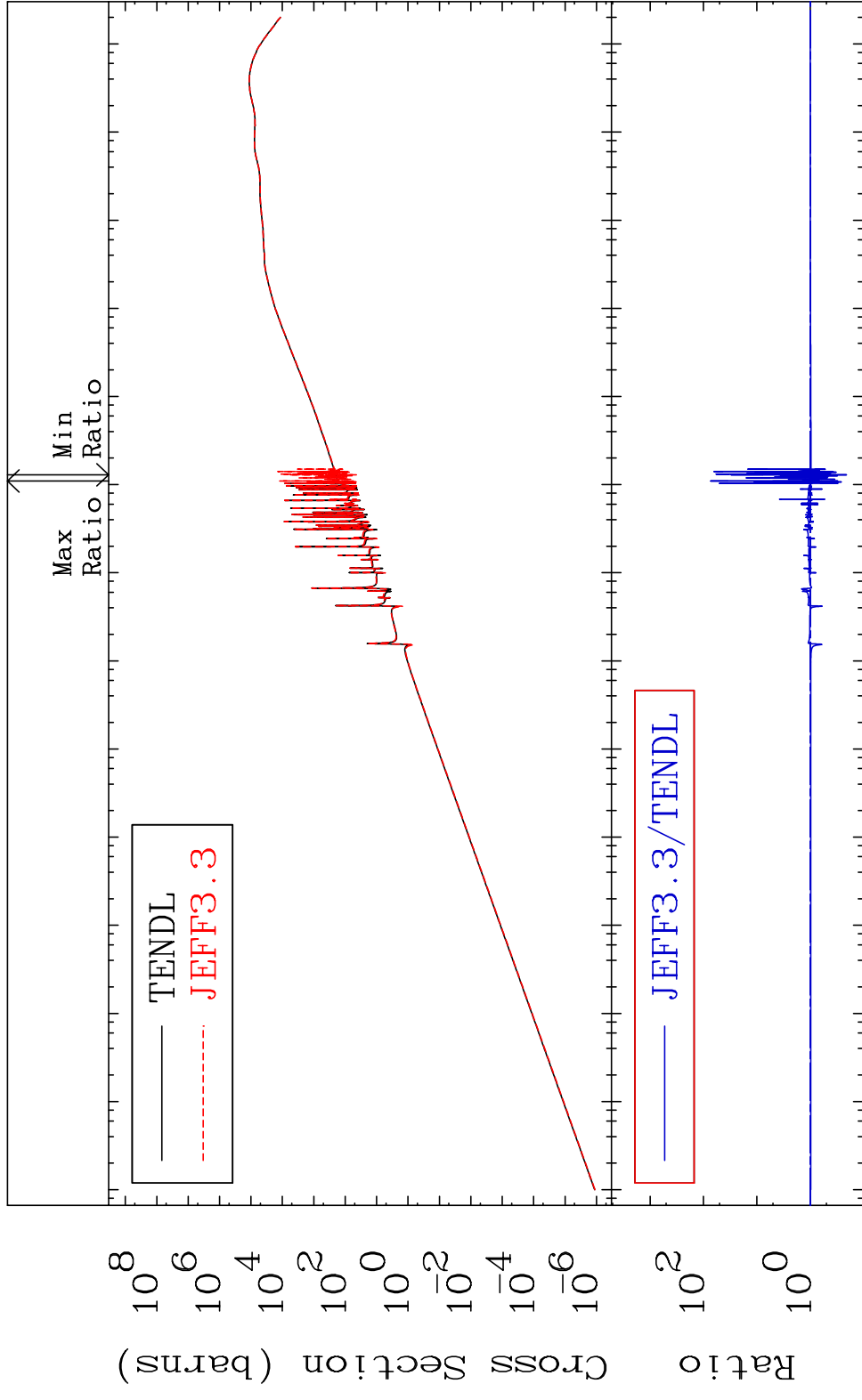
67

Incident Energy (eV)

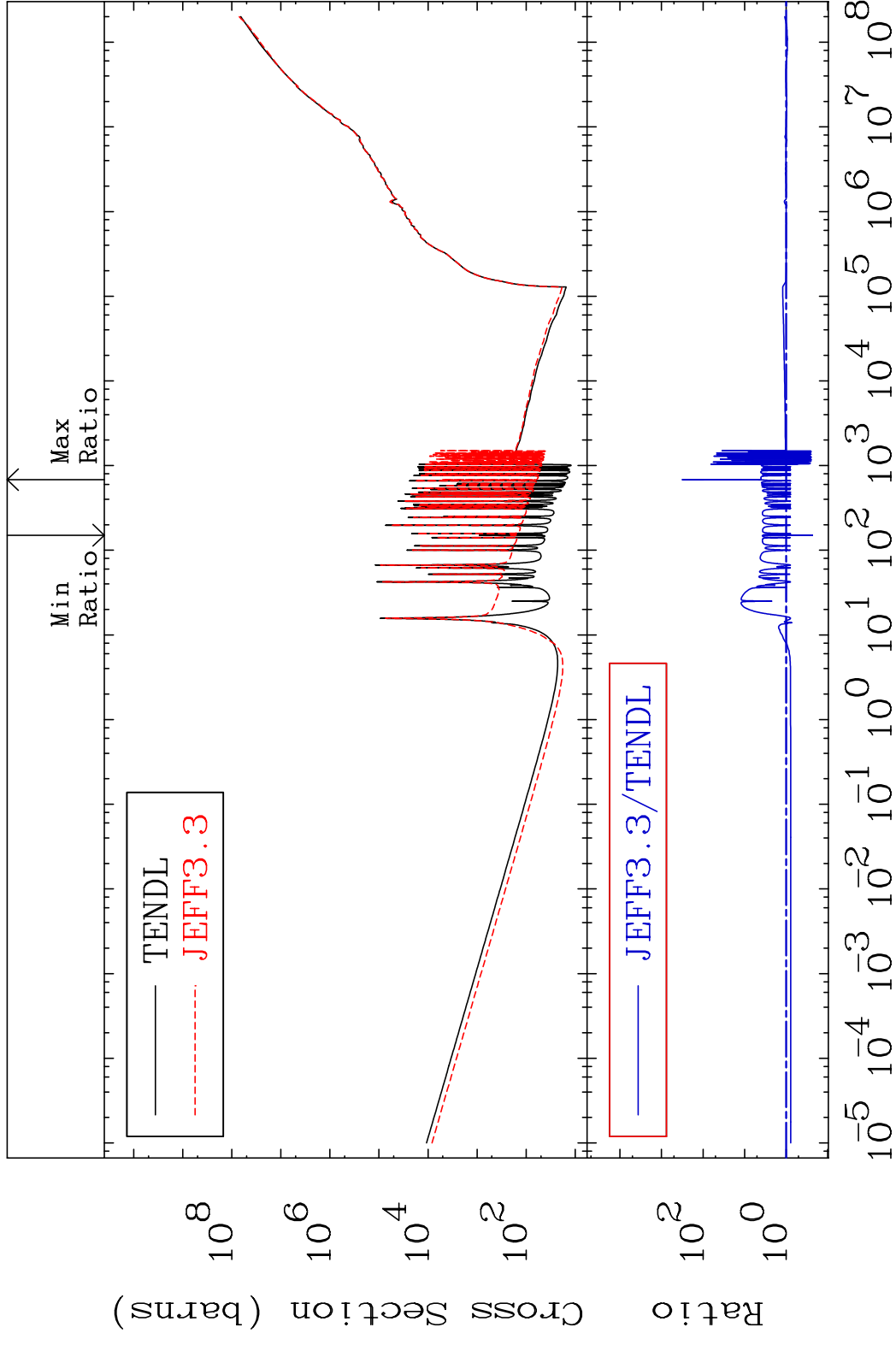
44-Ru-101

MAT 4440

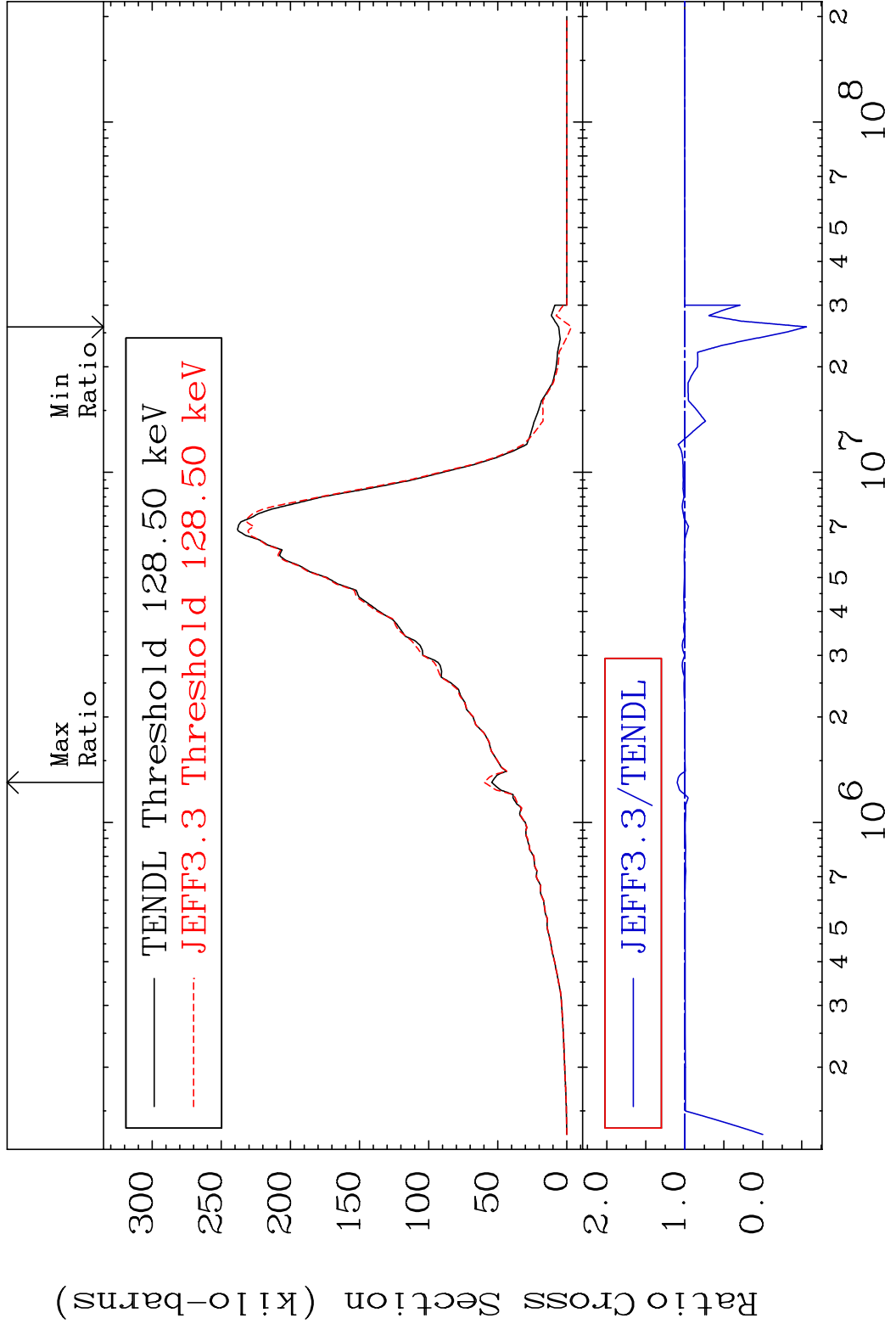
Kerma elastic Cross Section -78.86 To 7224. %
44-Ru-101



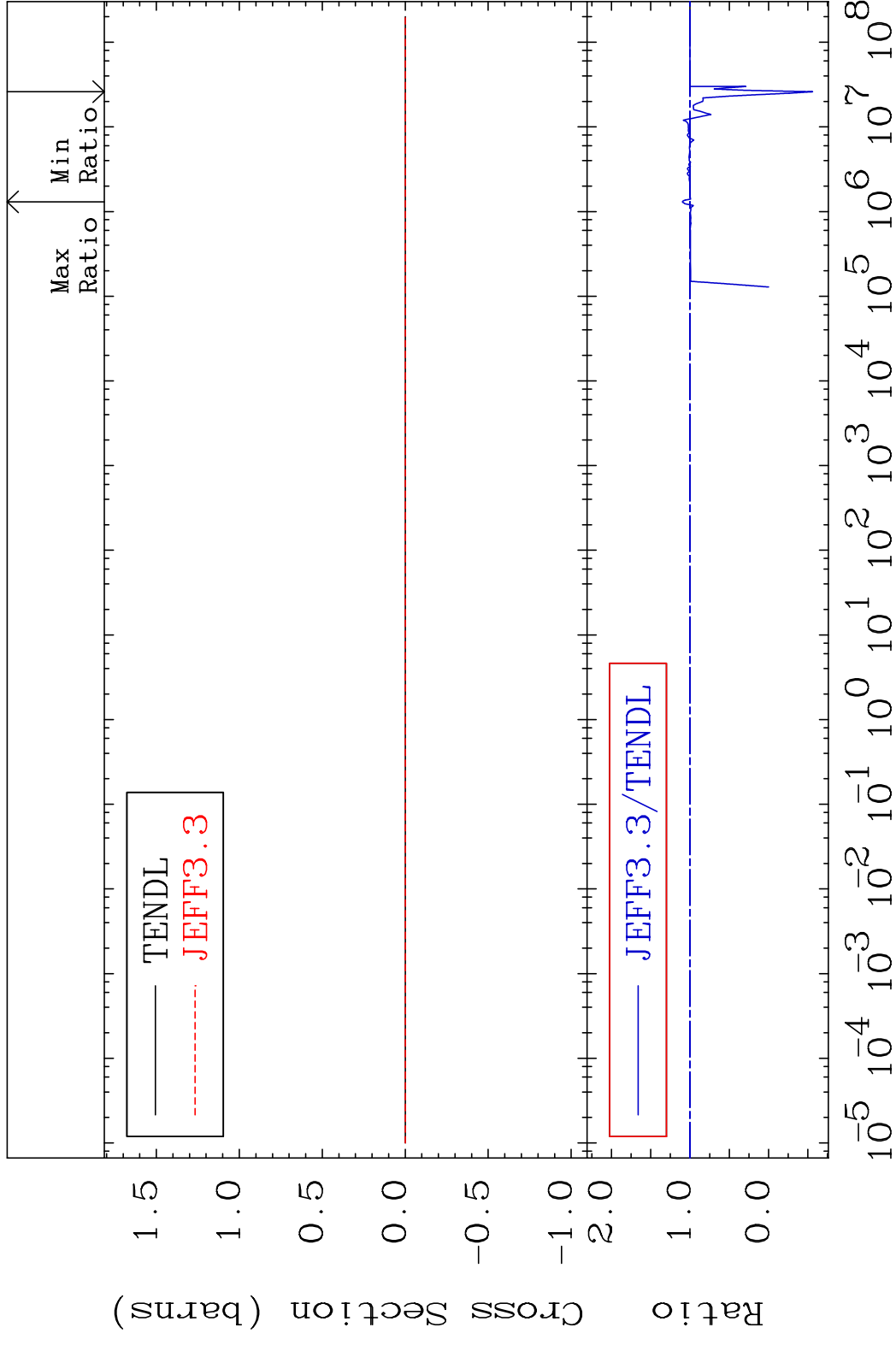
MAT 4440 Kerma non-elastic (all but mt2) 44-Ru-101
 Cross Section -76.98 To 9999. %



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) 44-Ru-101
 Cross Section -156.0 To 9.752 %

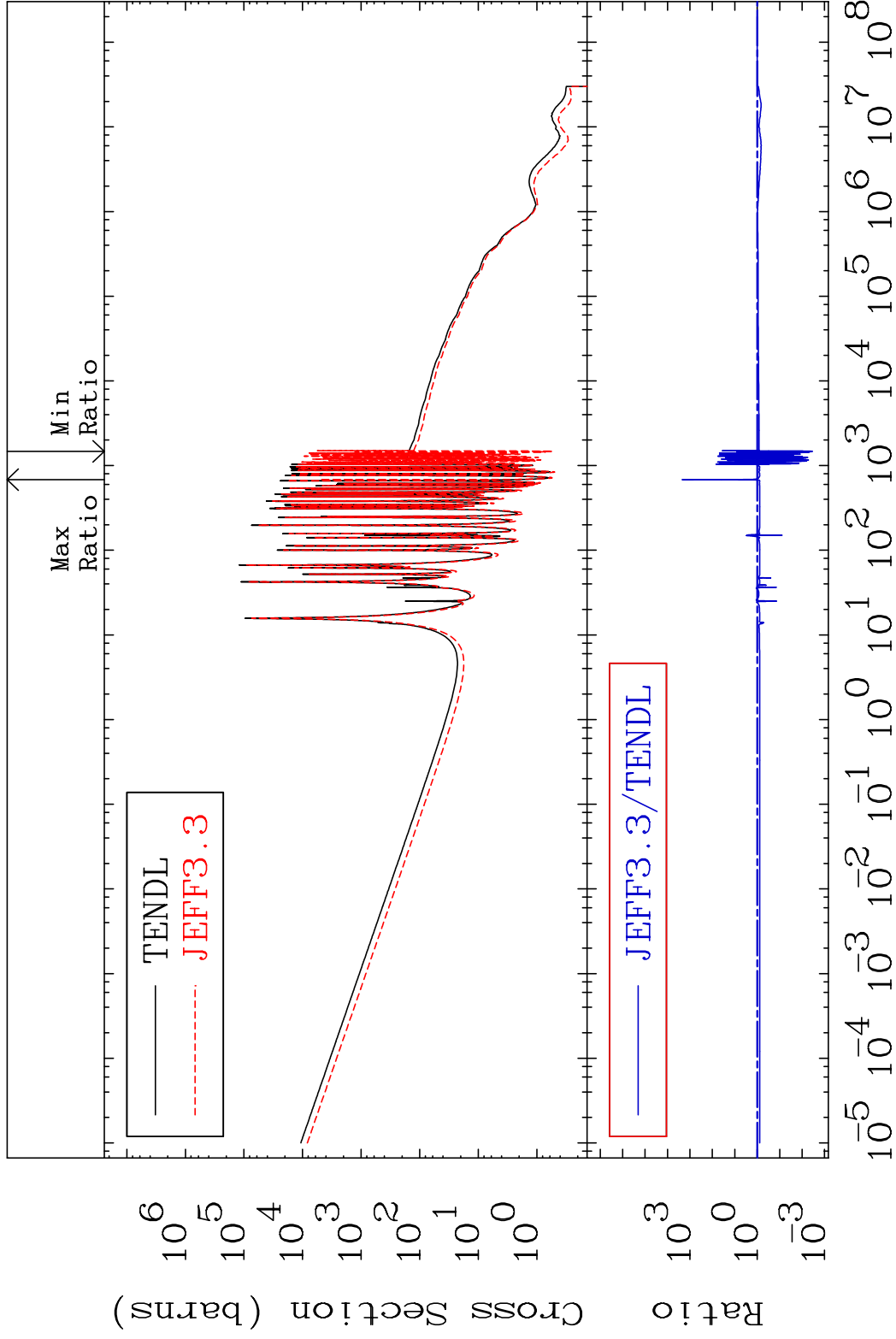


MAT 4440

Kerma capture (mt102)

44-Ru-101

Cross Section -99.66 To 9999. %

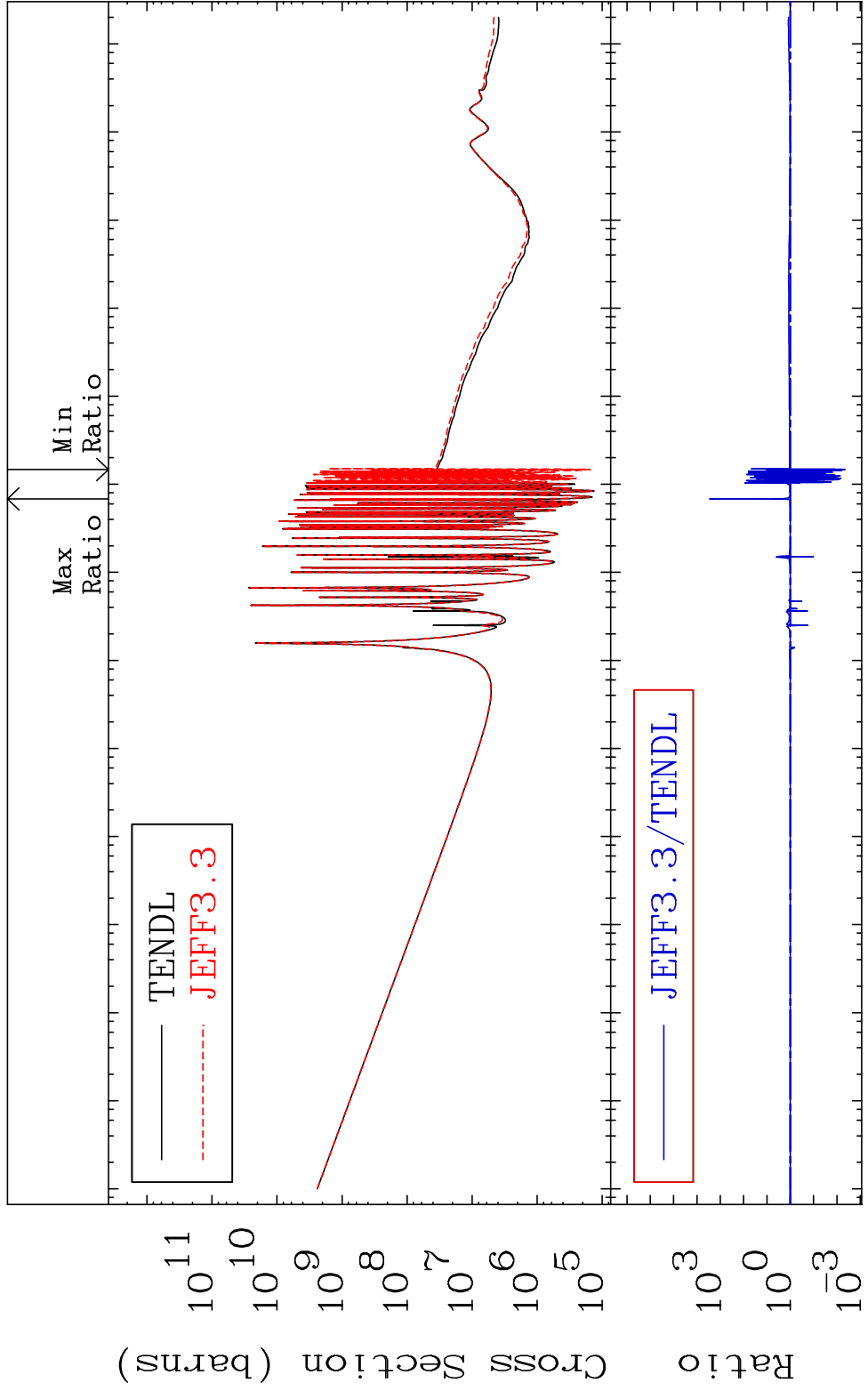


72

Incident Energy (eV)

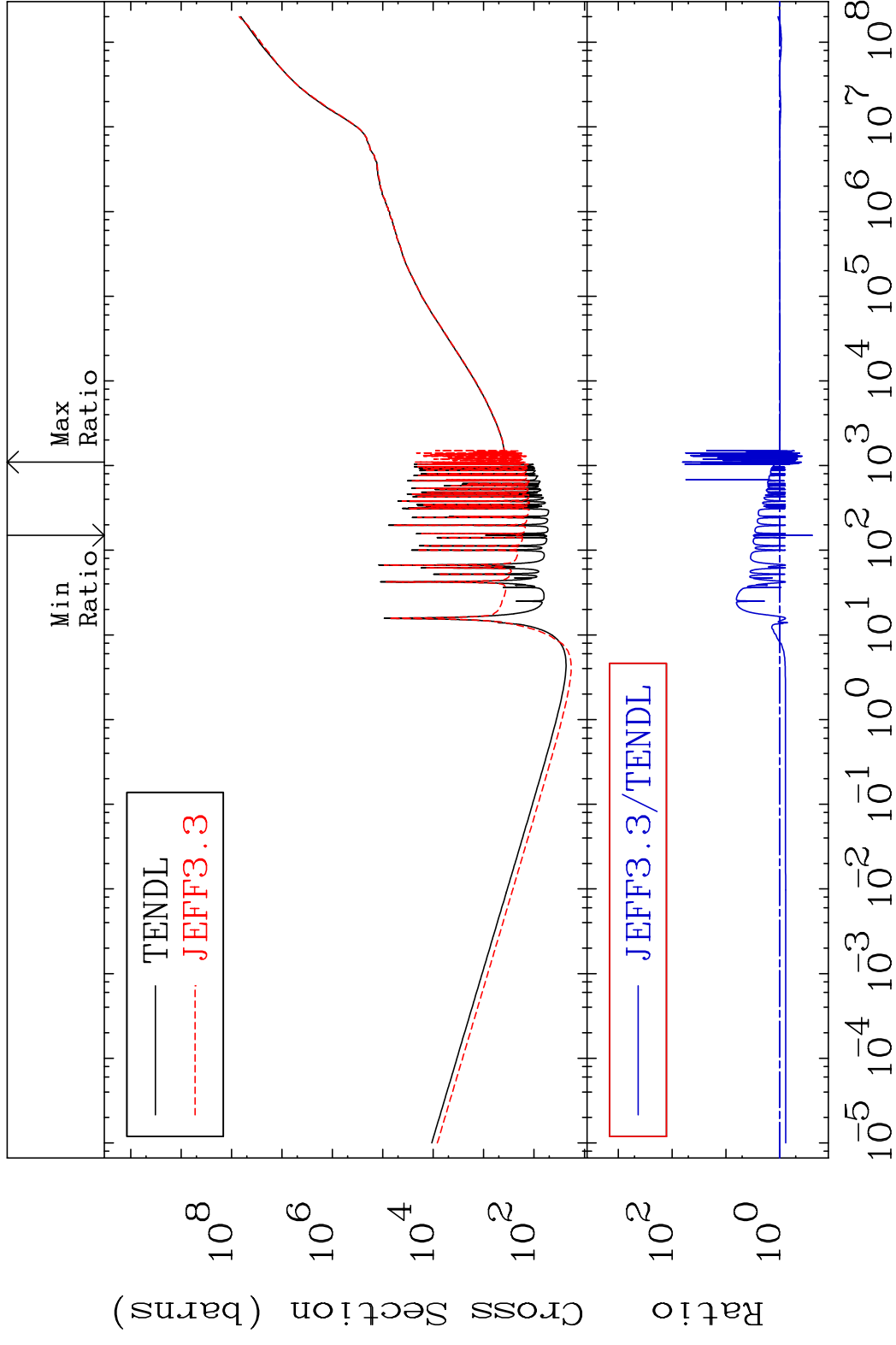
44-Ru-101

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

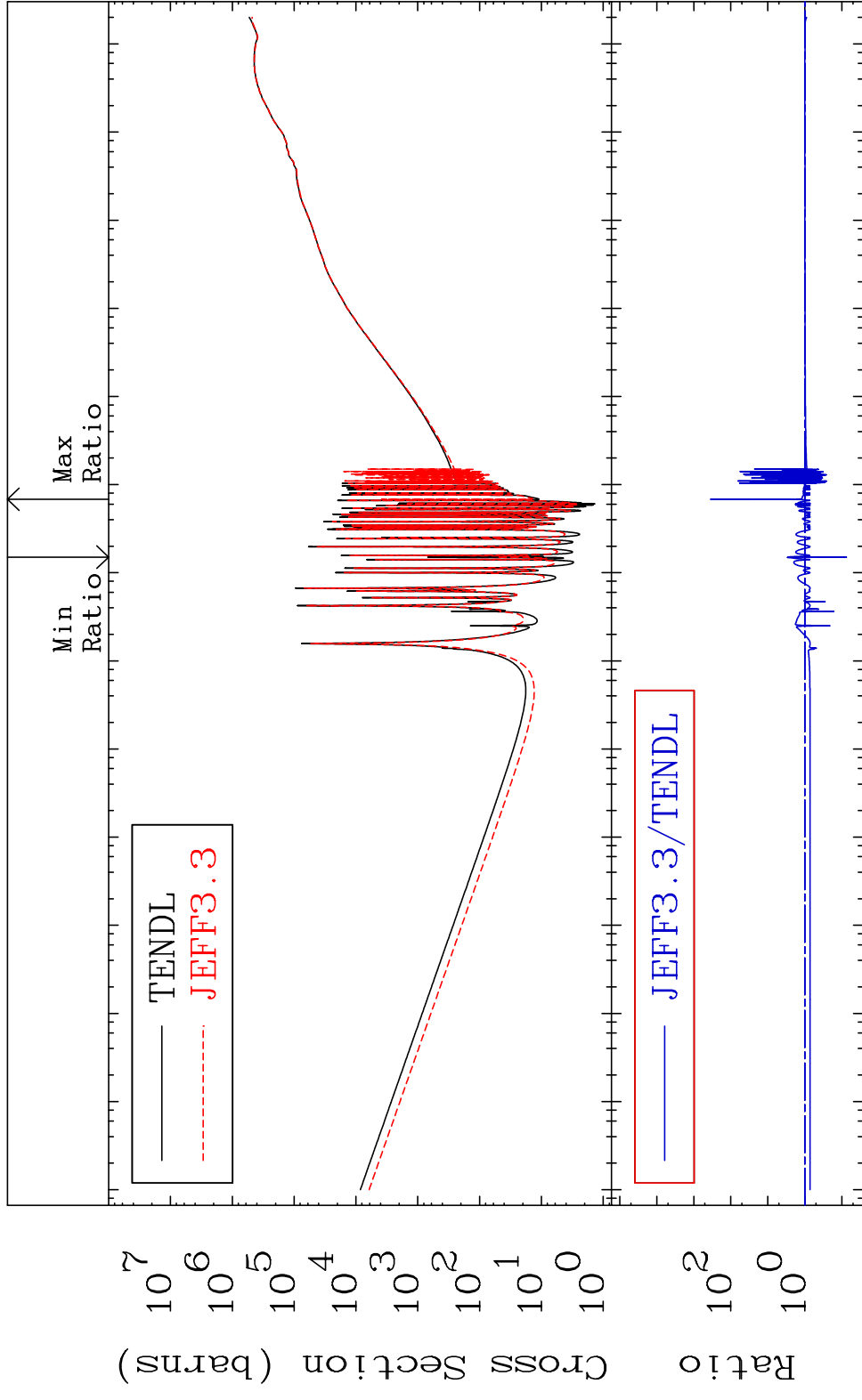


73 Incident Energy (eV) 44-Ru-101

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. %



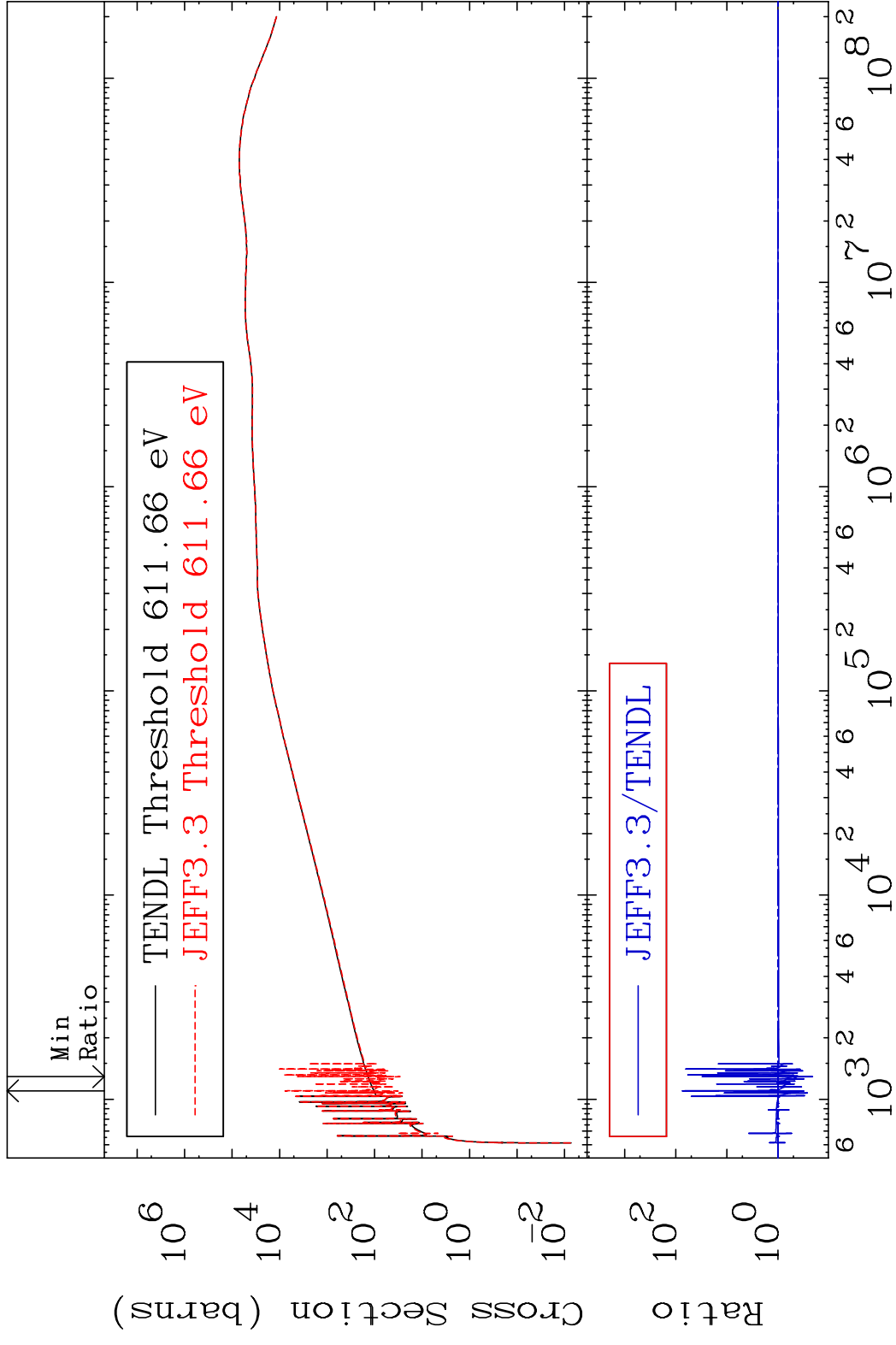
75 Incident Energy (eV) 44-Ru-101

MAT 4440

Dpa elastic (mt2)

44-Ru-101

Cross Section -78.86 To 7339. %

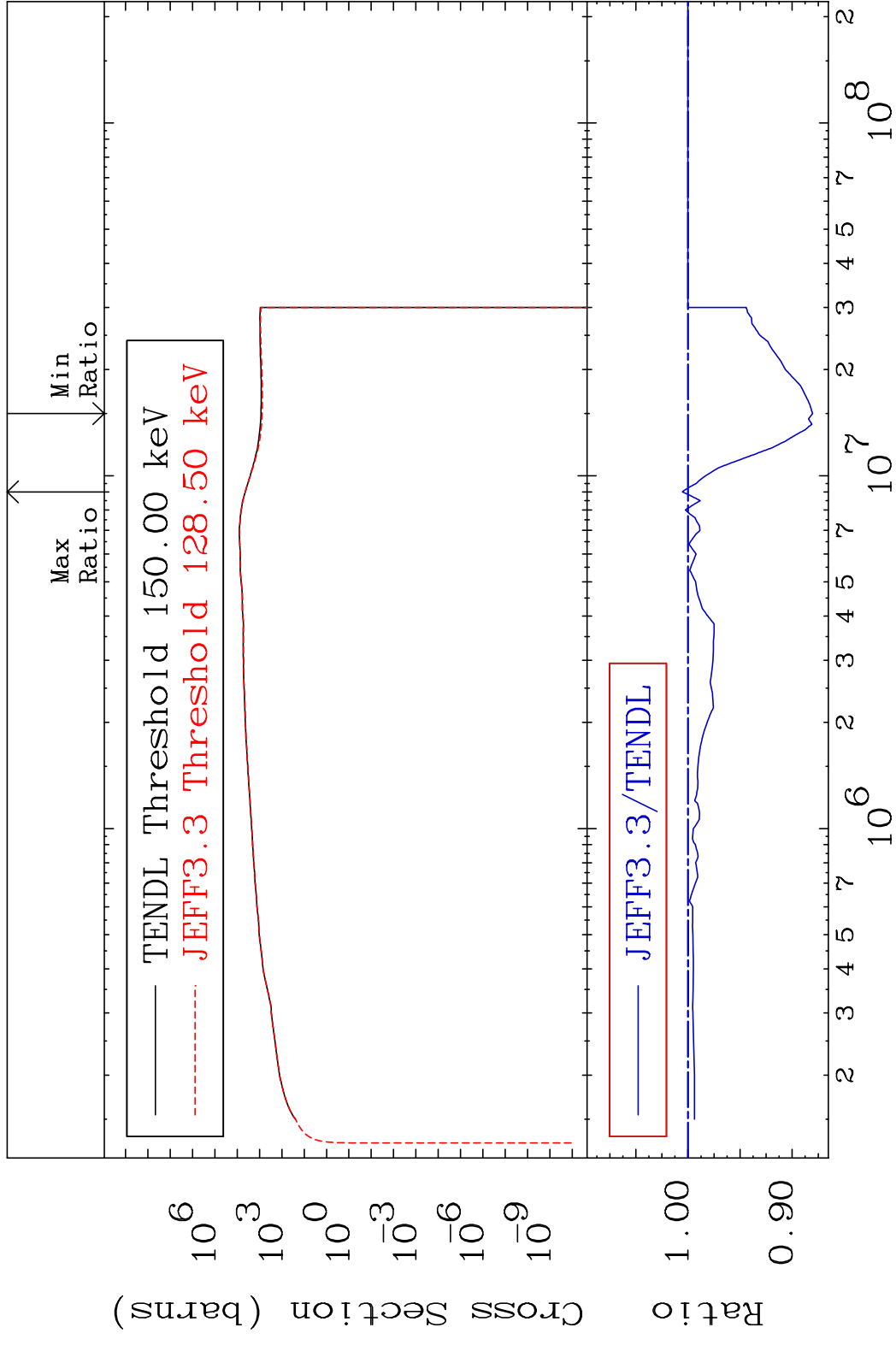


76

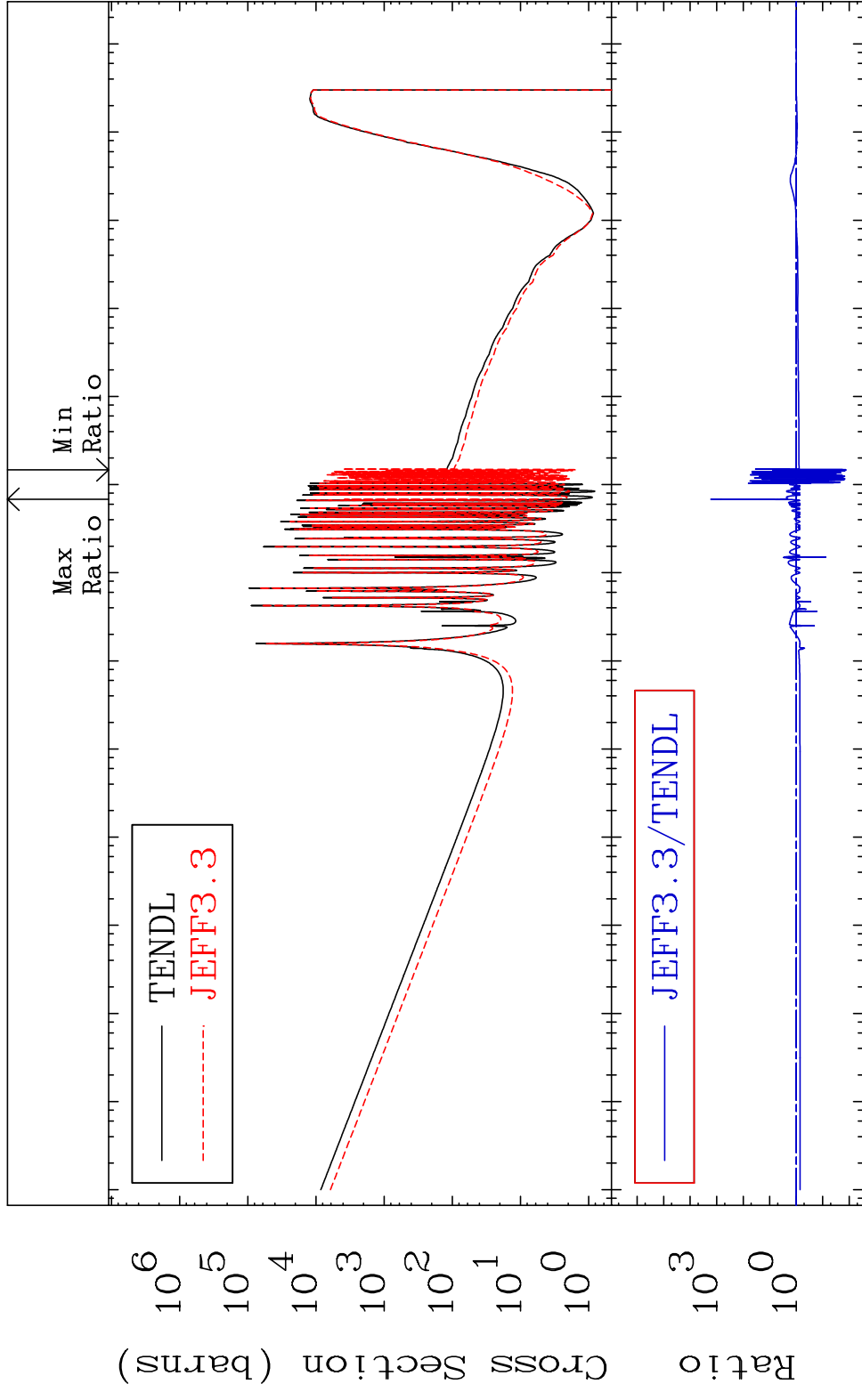
Incident Energy (eV)

44-Ru-101

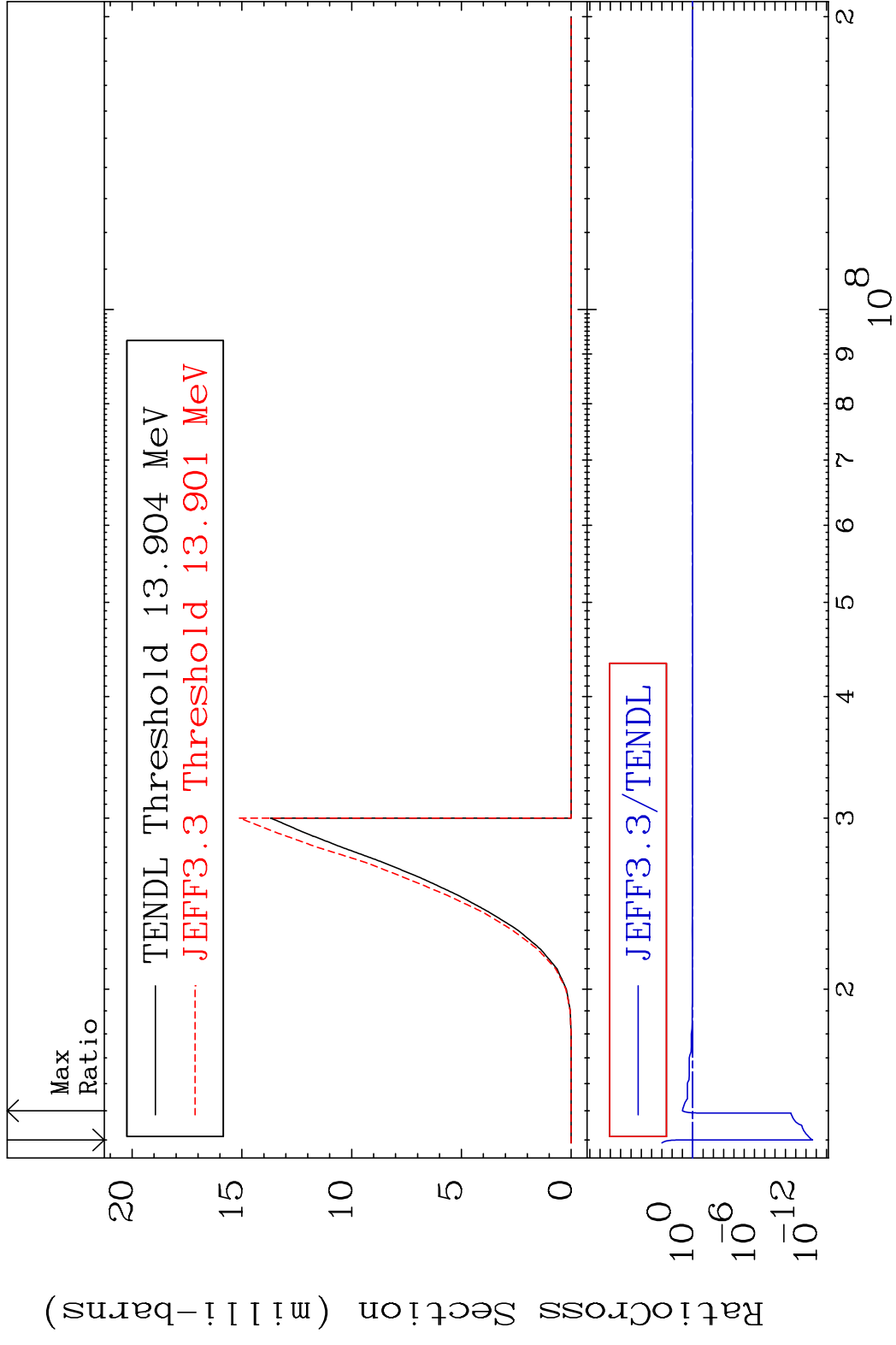
MAT 4440 Dpa inelastic (mt51-91) 44-Ru-101
 Cross Section -11.96 To 0.539 %



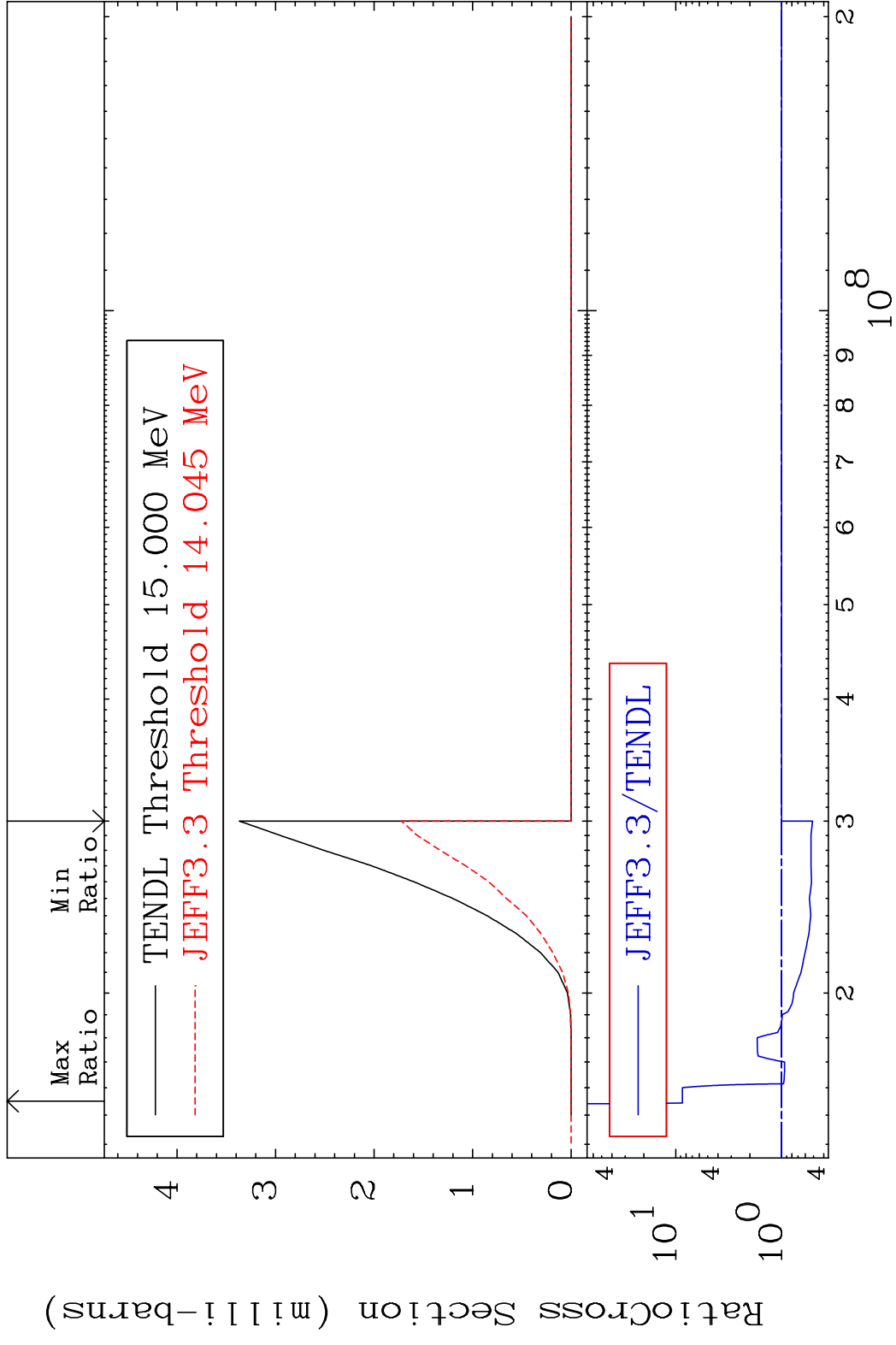
MAT 4440 Dpa disappearance (mt102 -120) 44-Ru-101
 Cross Section -98.71 To 9999. %

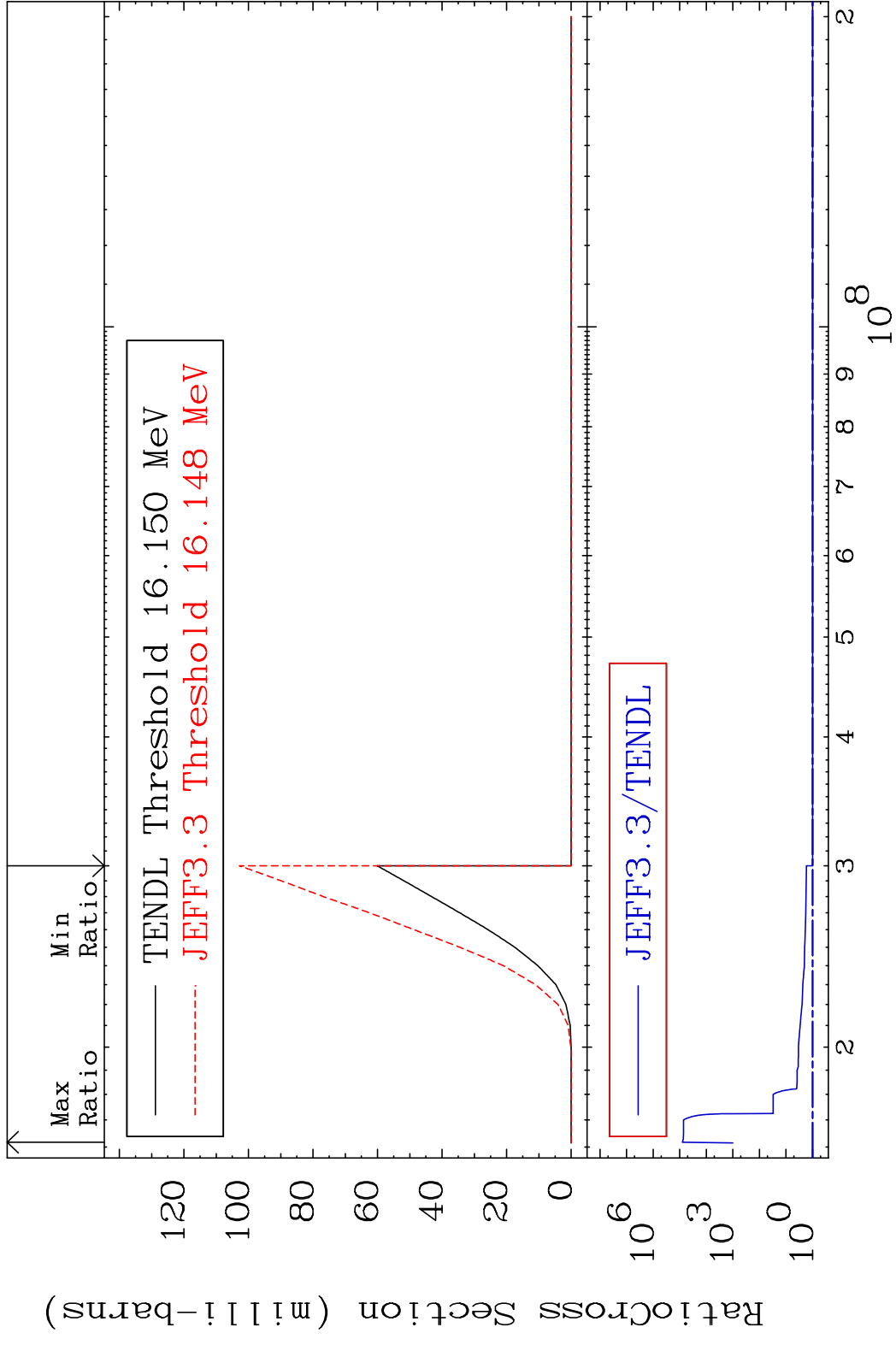


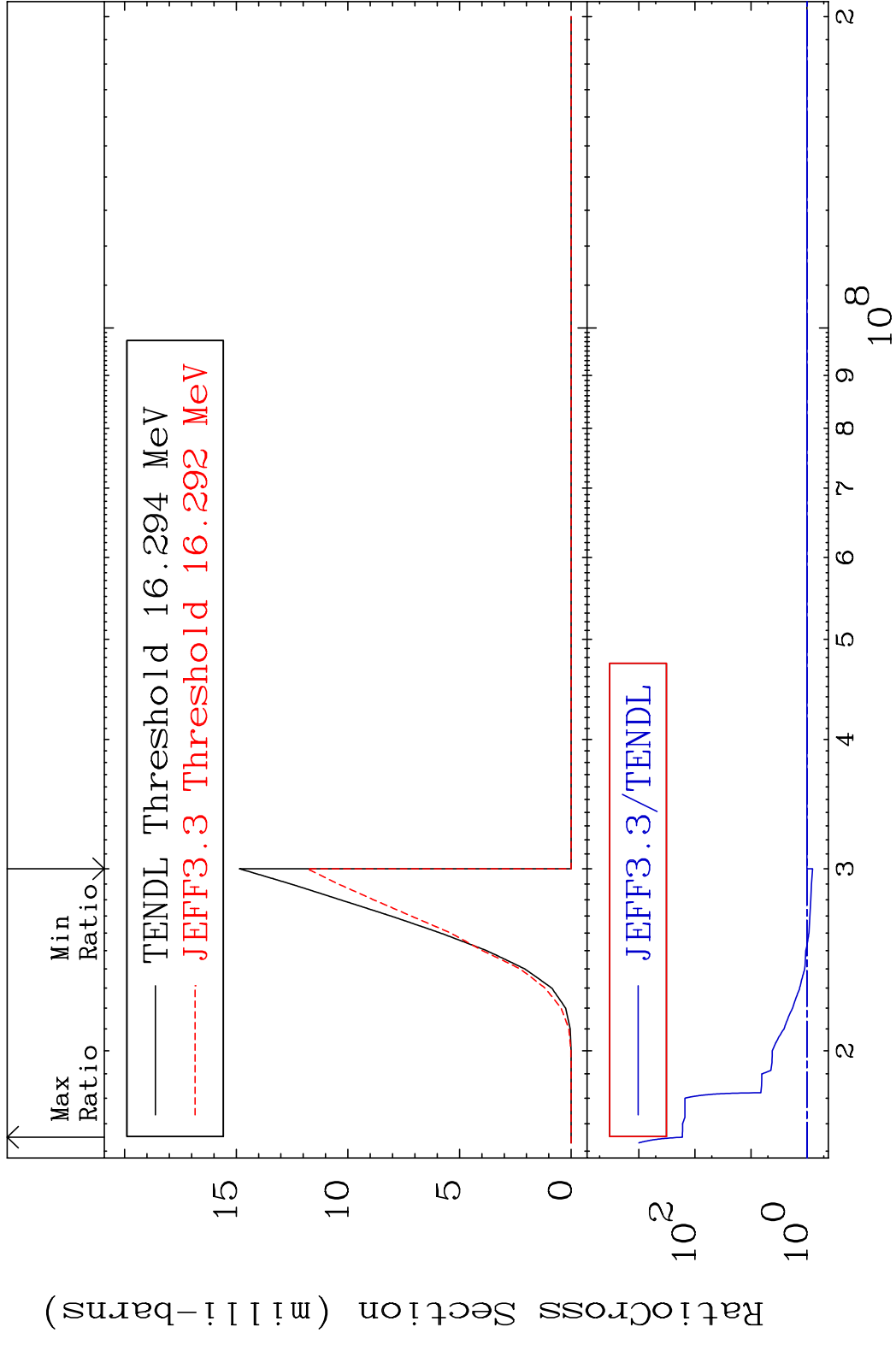
MAT 4440 (n, n') d:43-Tc-99g 44-Ru-101
 Radionuclide Production Cross Section Ratio 922.9 %



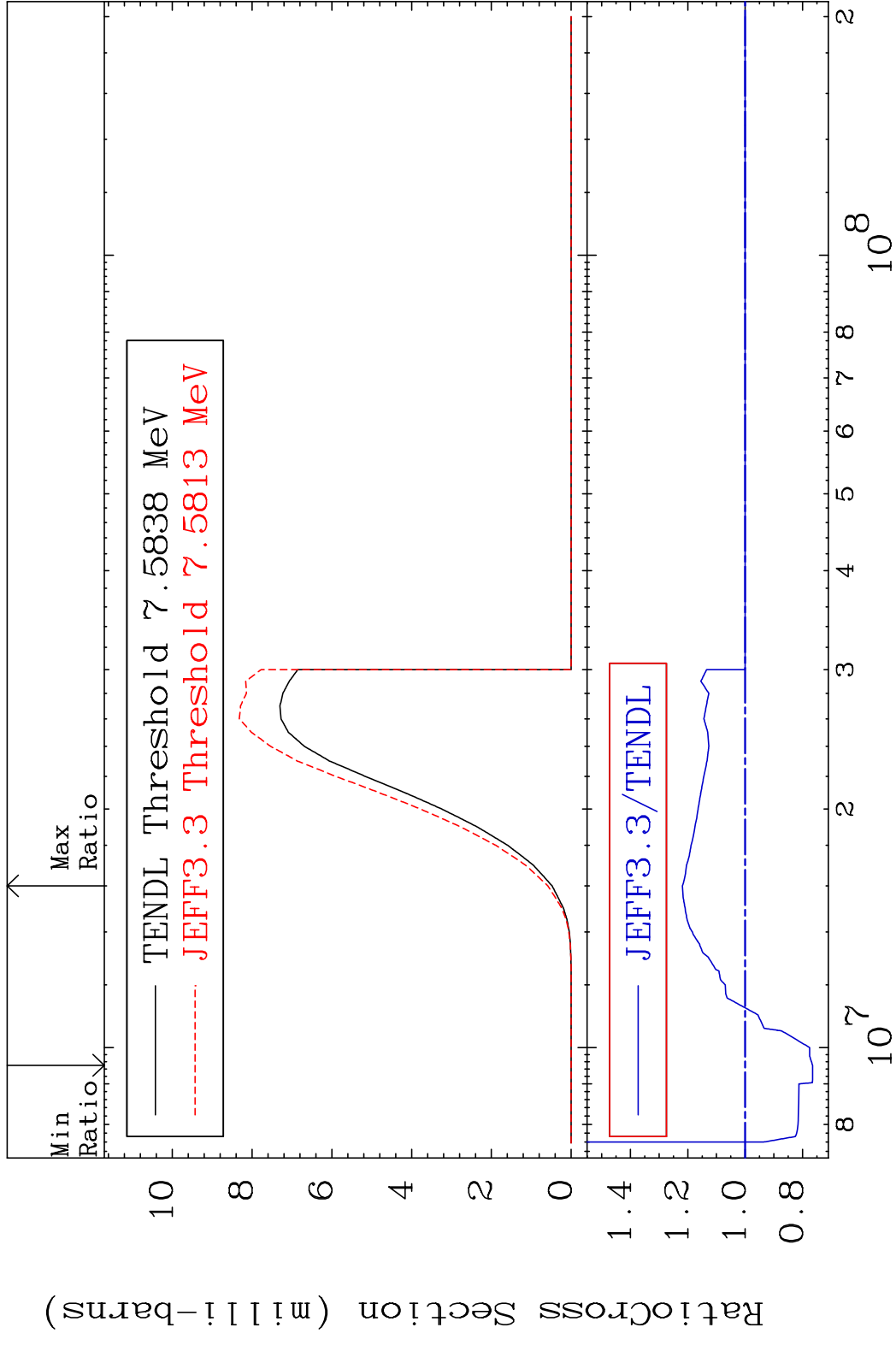
MAT 4440 (n, n') d:43-Tc-99m2 44-Ru-101
 Radionuclide Production Cross Section 48.65 dth 765.0 %







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 %

