

Program Complot
(Version 2021-1)

by

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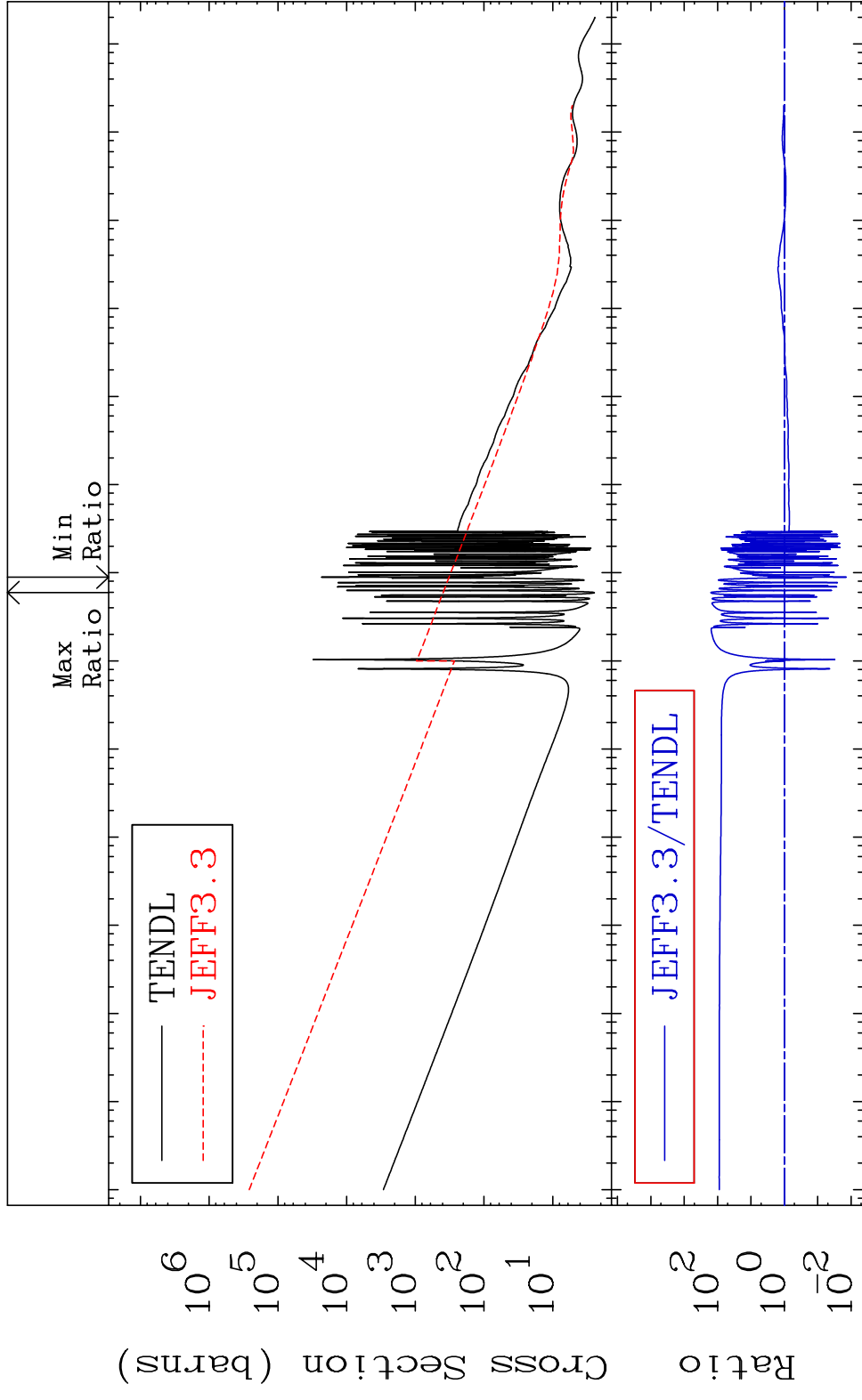
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6340

Total Cross Section -98.61 To 9999. %

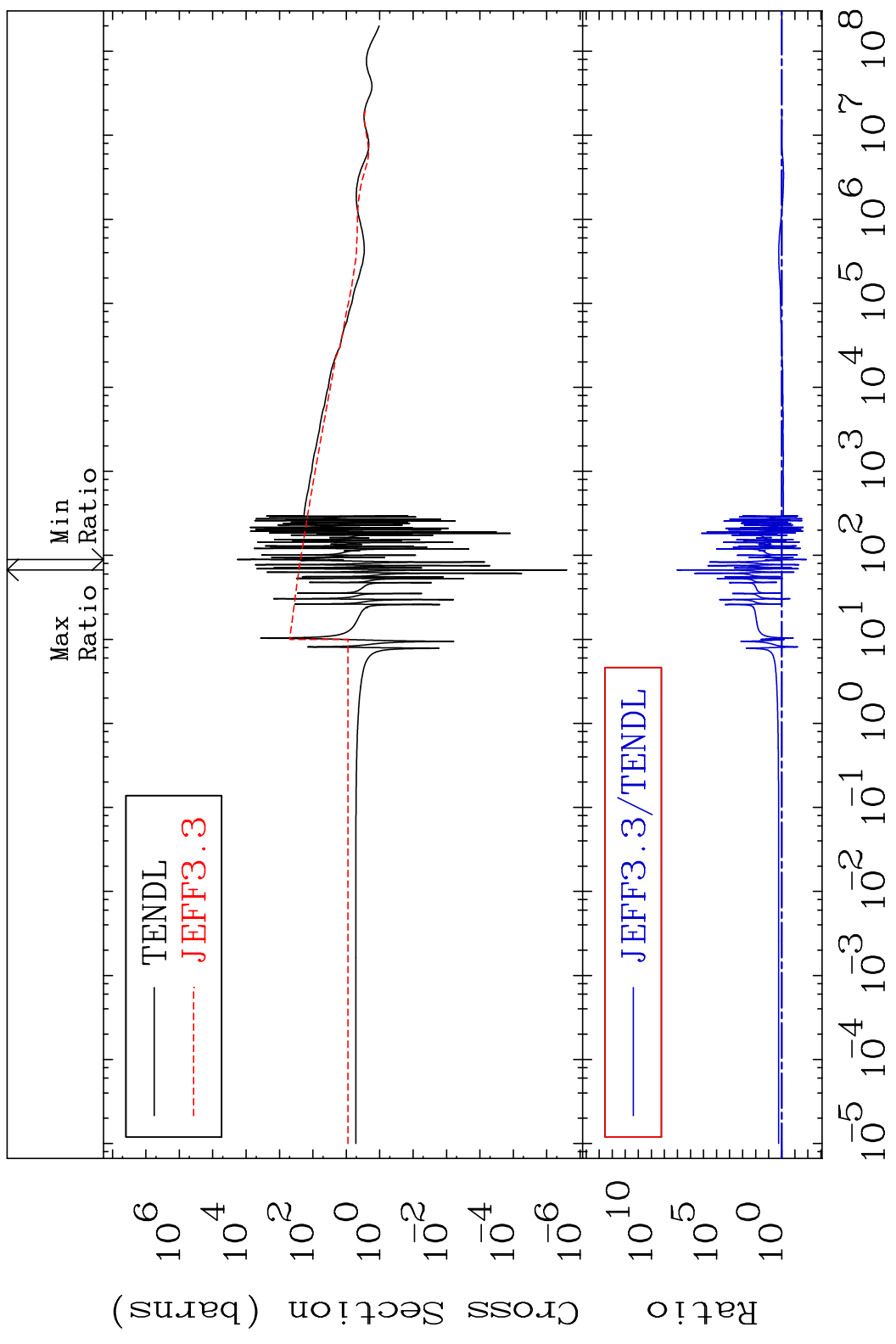
63-Eu-156



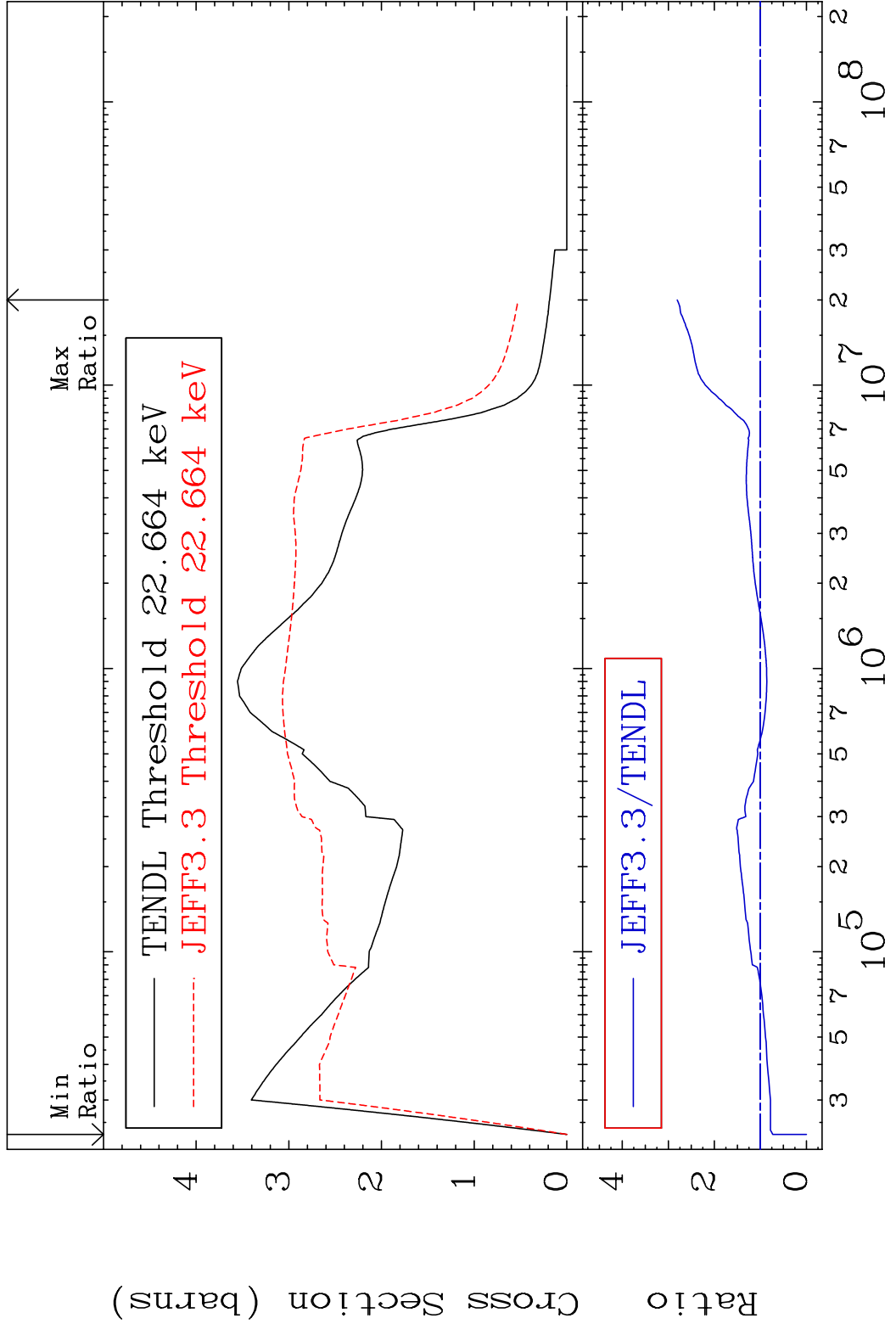
1 Incident Energy (eV) 63-Eu-156

MAT 6340

Elastic Cross Section -98.70 To 9999. %
63-Eu-156

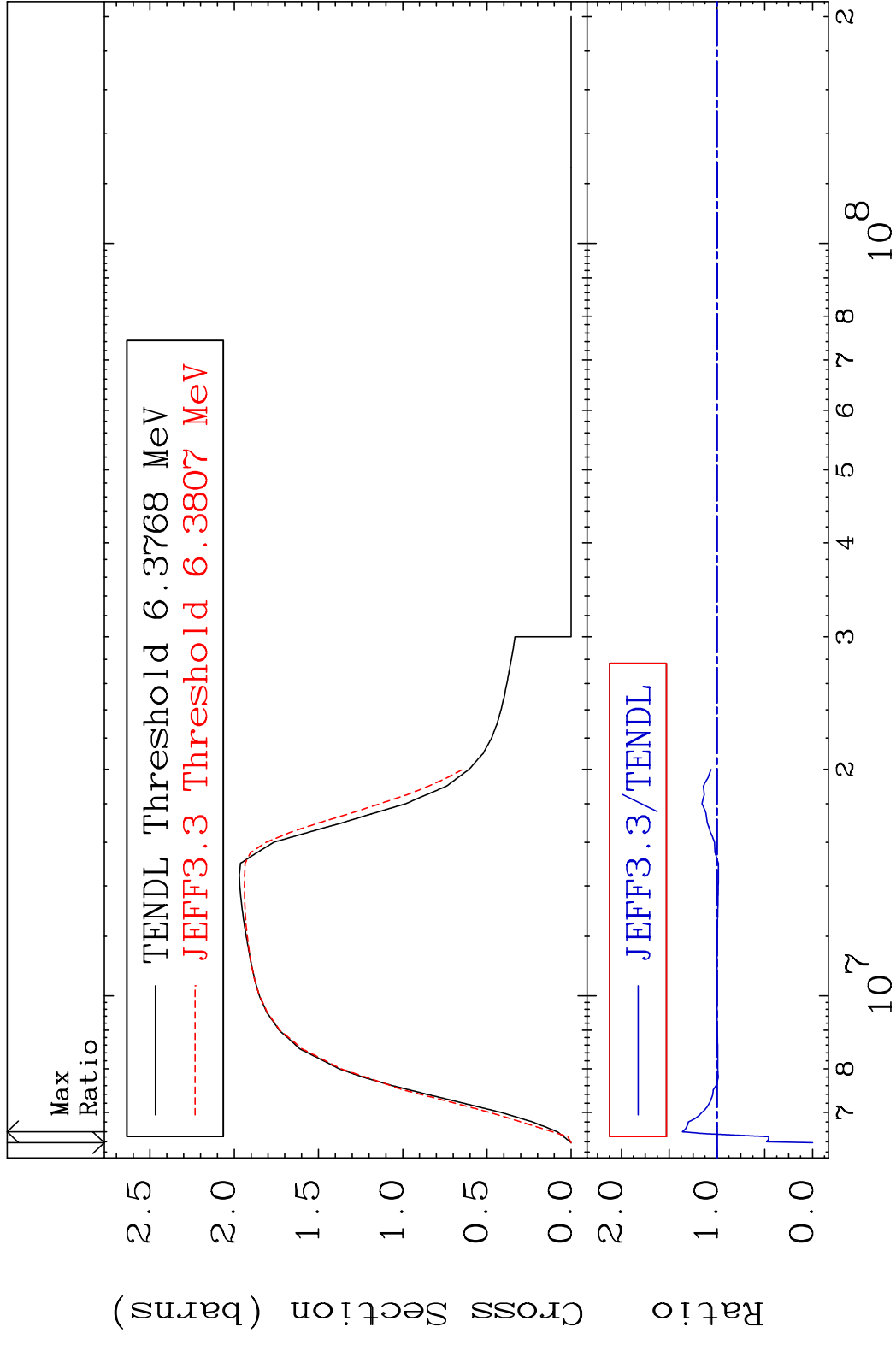


MAT 6340 Inelastic Cross Section -100.0 To 180.8 % 63-Eu-156



3 3 Incident Energy (eV) 63-Eu-156

MAT 6340 (n,2n) 63-Eu-156
 Cross Section -100.0 To 36.23 %

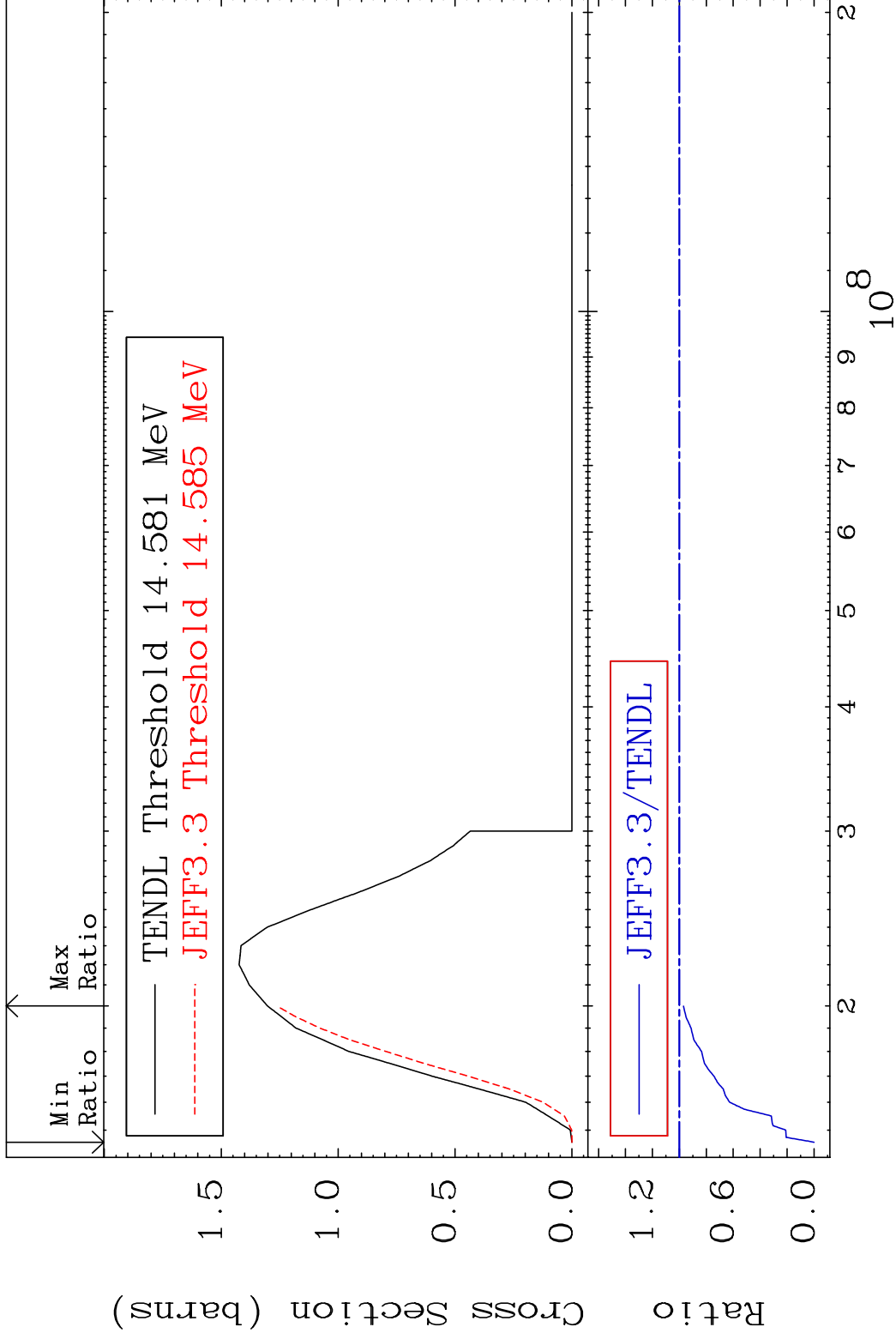


MAT 6340

(n,3n)

63-Eu-156

Cross Section -100.0 To -3.042%

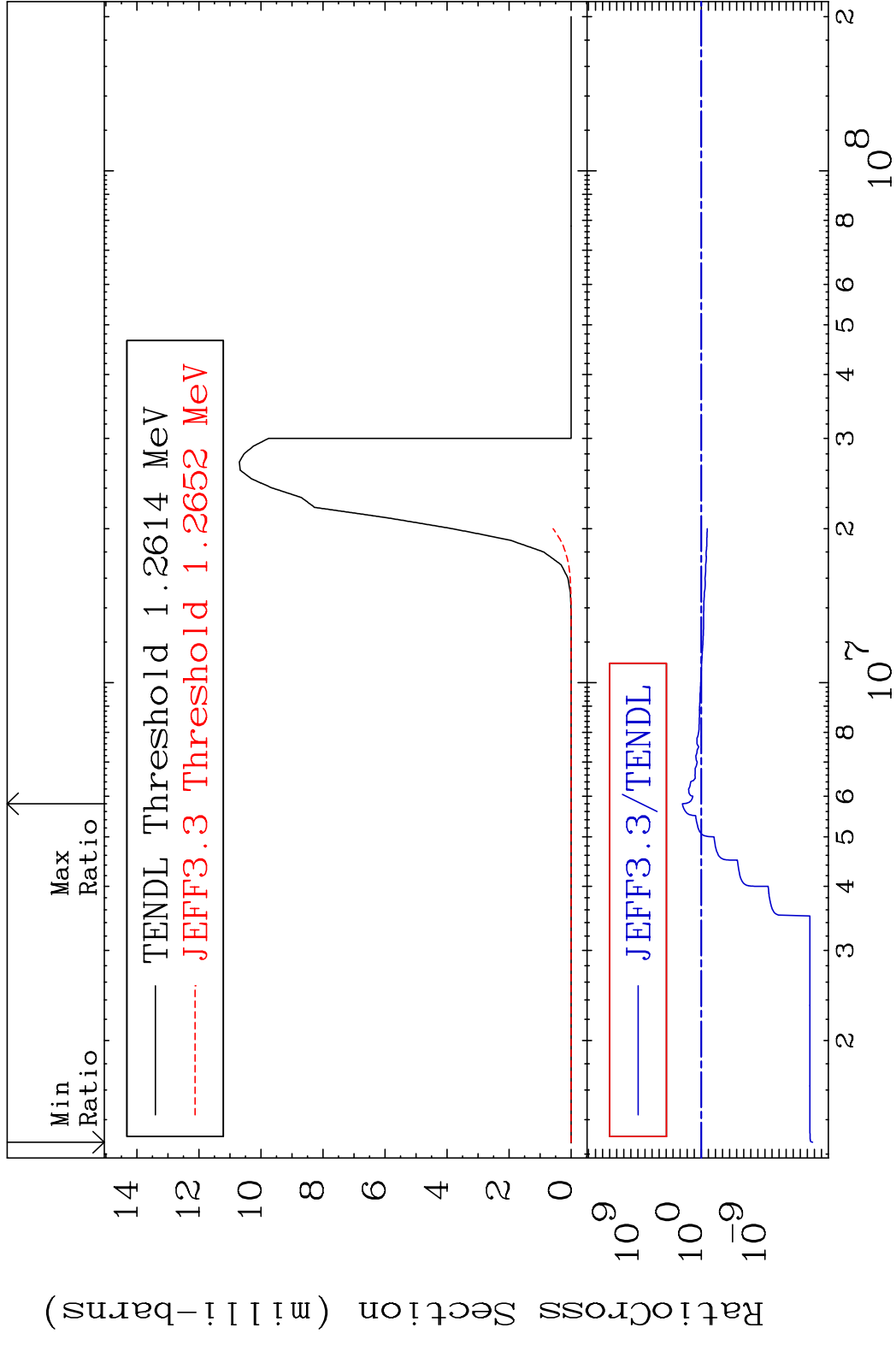


5

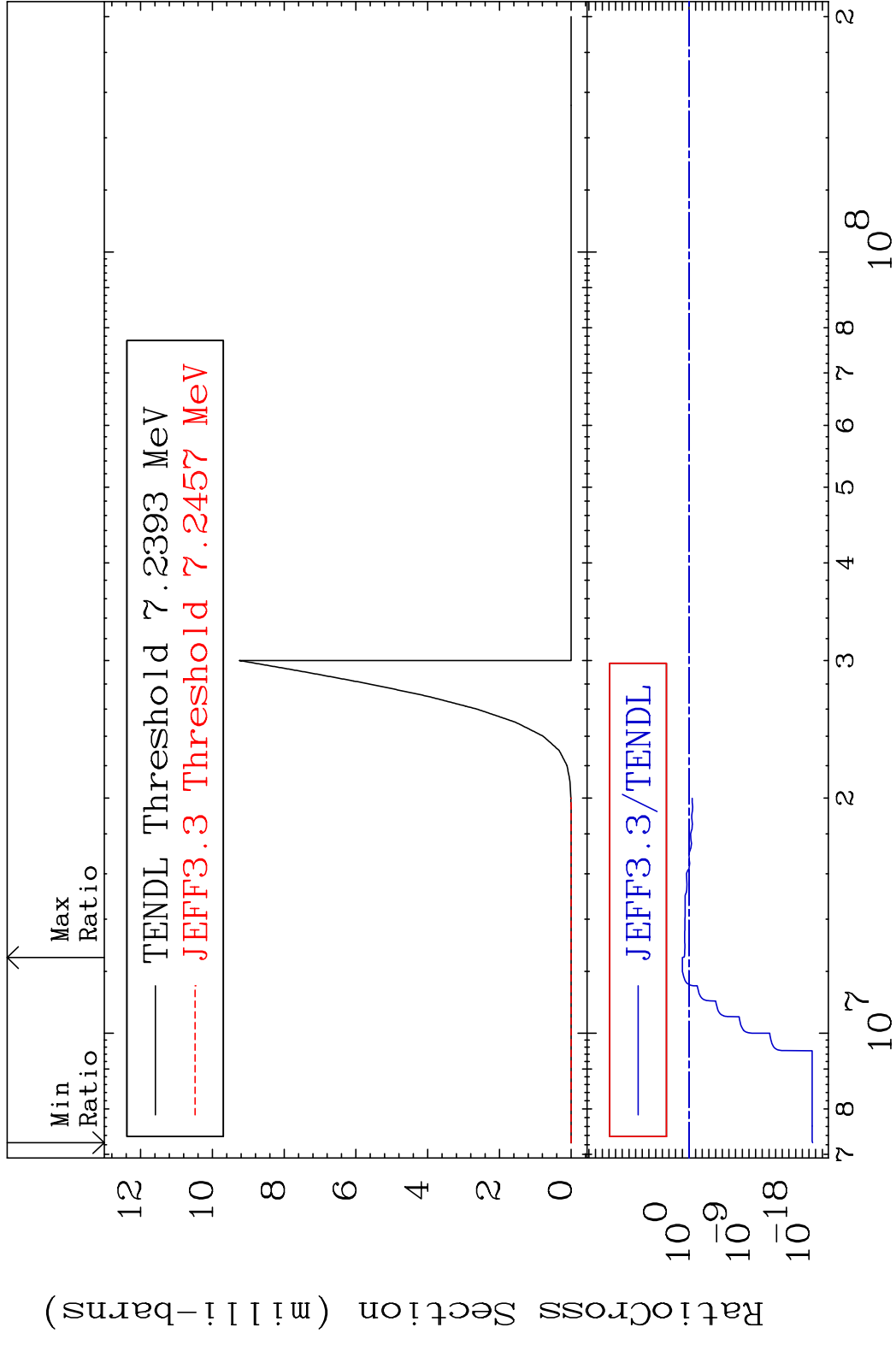
Incident Energy (eV)

63-Eu-156

MAT 6340 (n, n') α 63-Eu-156
 Cross Section -100.0 To 9999. %

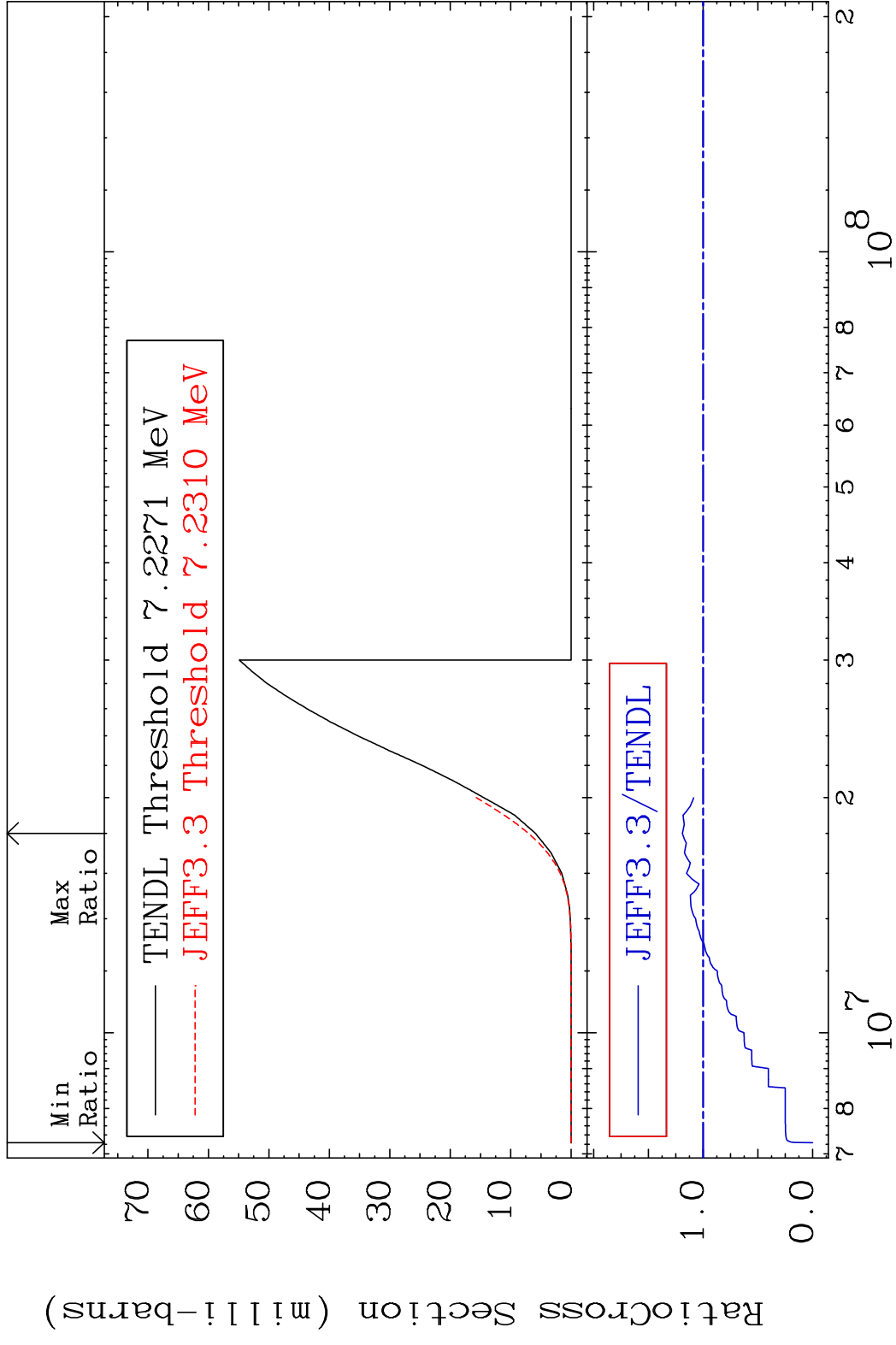


MAT 6340 (n,2n) α 63-Eu-156
 Cross Section -100.0 To 874.4 %



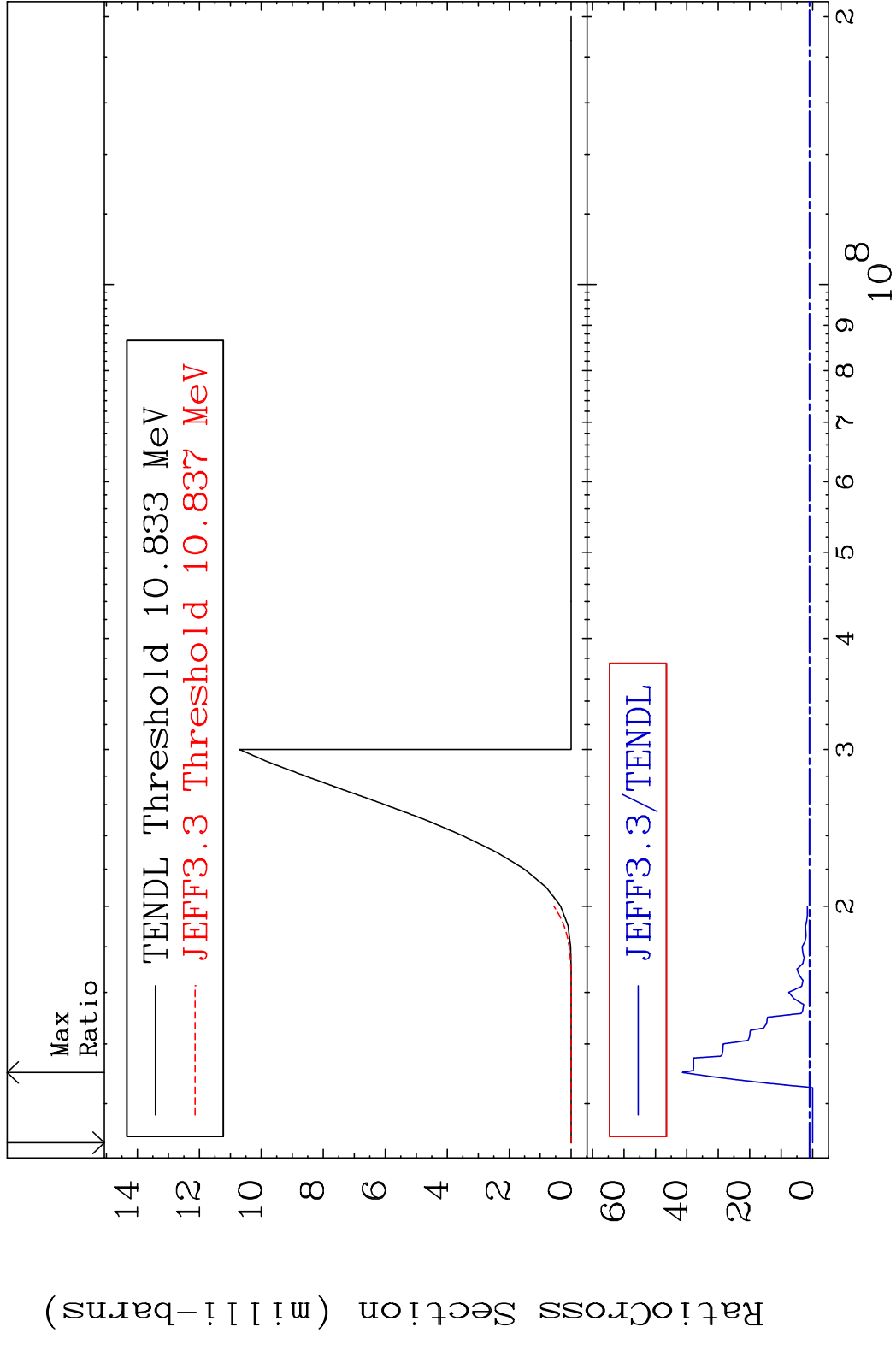
7 Incident Energy (eV) 63-Eu-156

MAT 6340 (n, n') p 63-Eu-156
 Cross Section -100.0 To 19.02 %

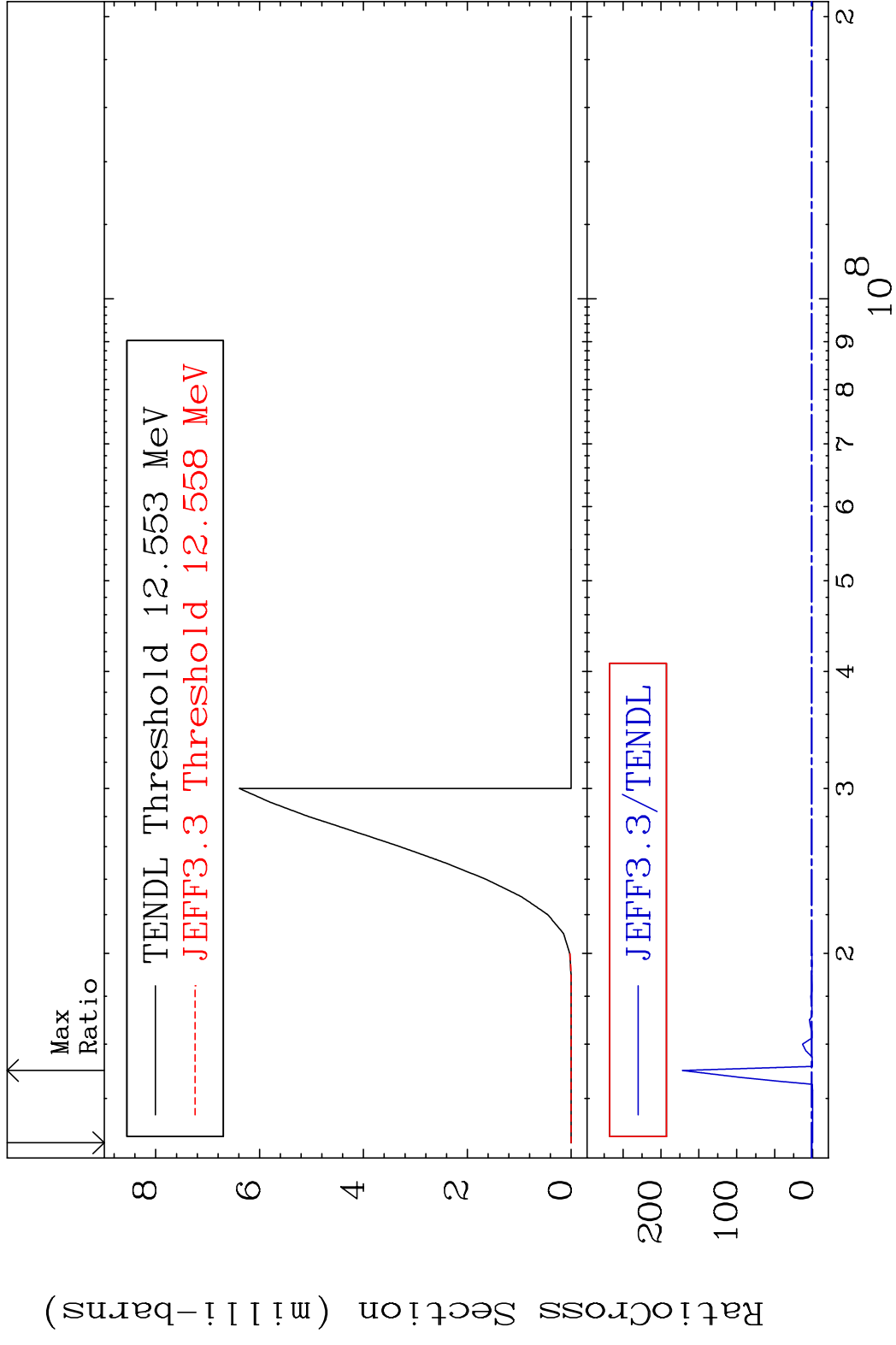


8 Incident Energy (eV) 63-Eu-156

MAT 6340 (n, n') d 63-Eu-156
 Cross Section -100.0 To 4042. %

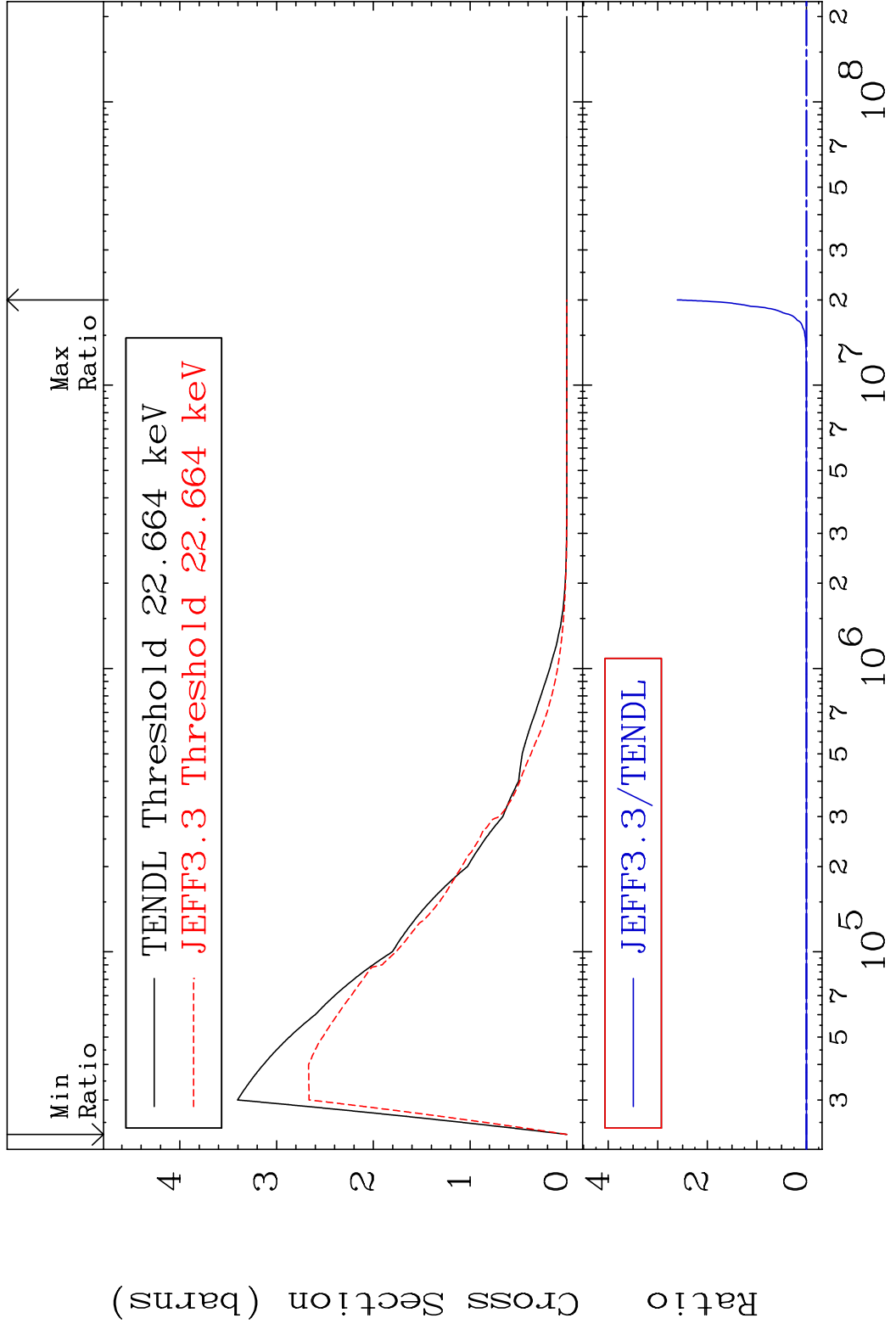


MAT 6340 (n, n') t 63-Eu-156
 Cross Section -100.0 To 9999. %

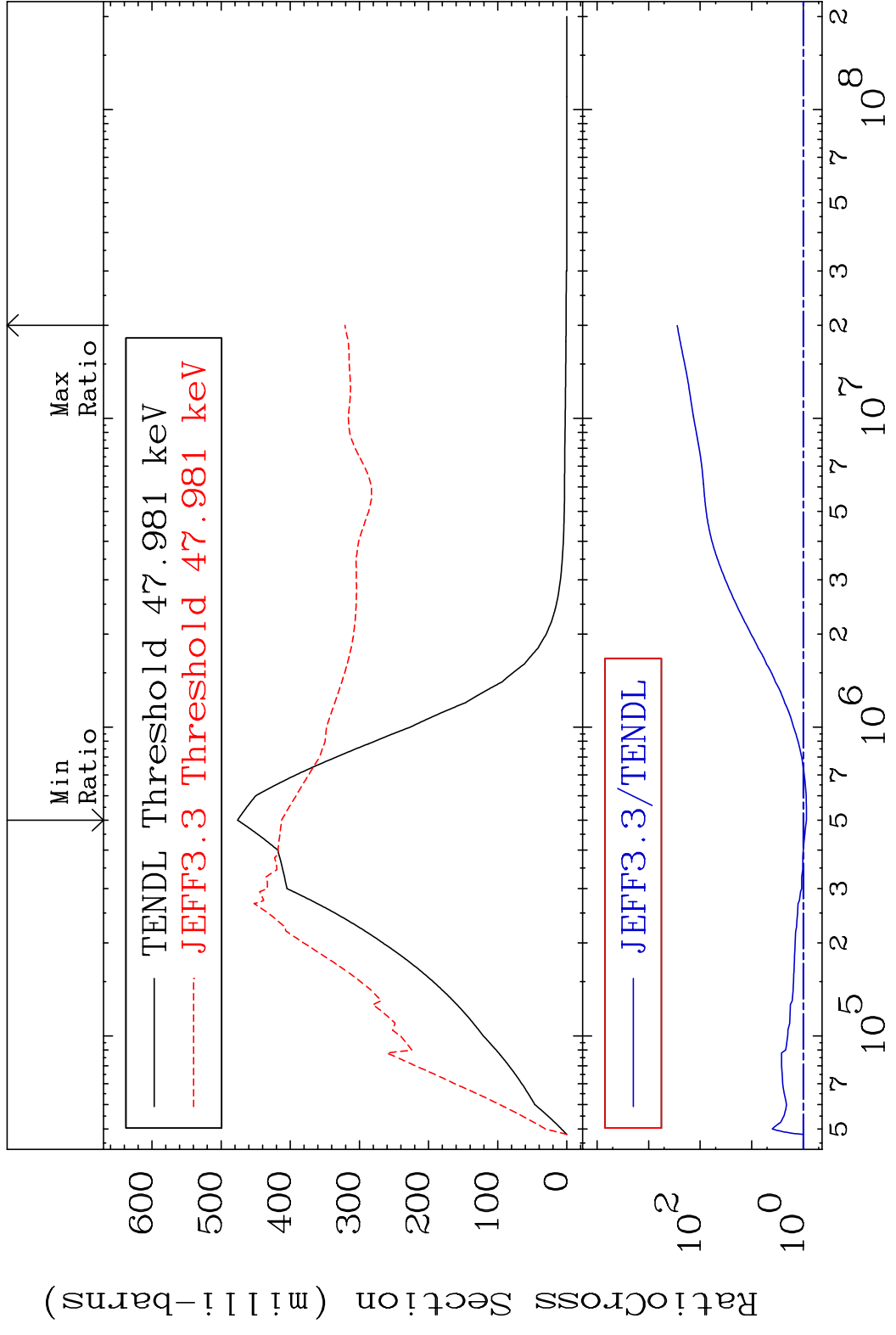


10 Incident Energy (eV) 63-Eu-156

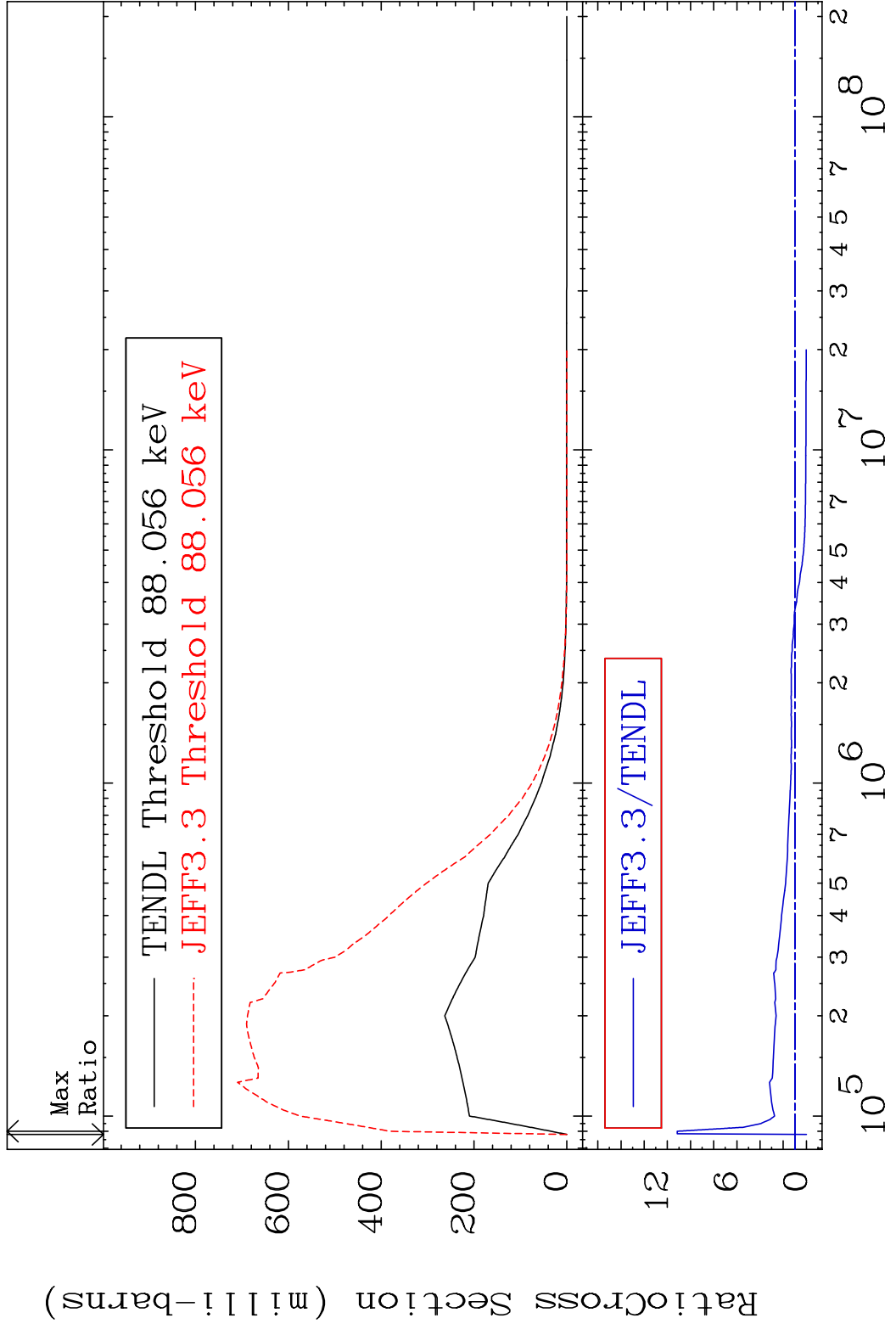
MAT 6340 MT= 51 (n, n') Level 63-Eu-156
 Cross Section -100.0 To 9999. %



MAT 6340 MT= 52 (n, n') Level 63-Eu-156
 Cross Section -13.41 To 9999. %

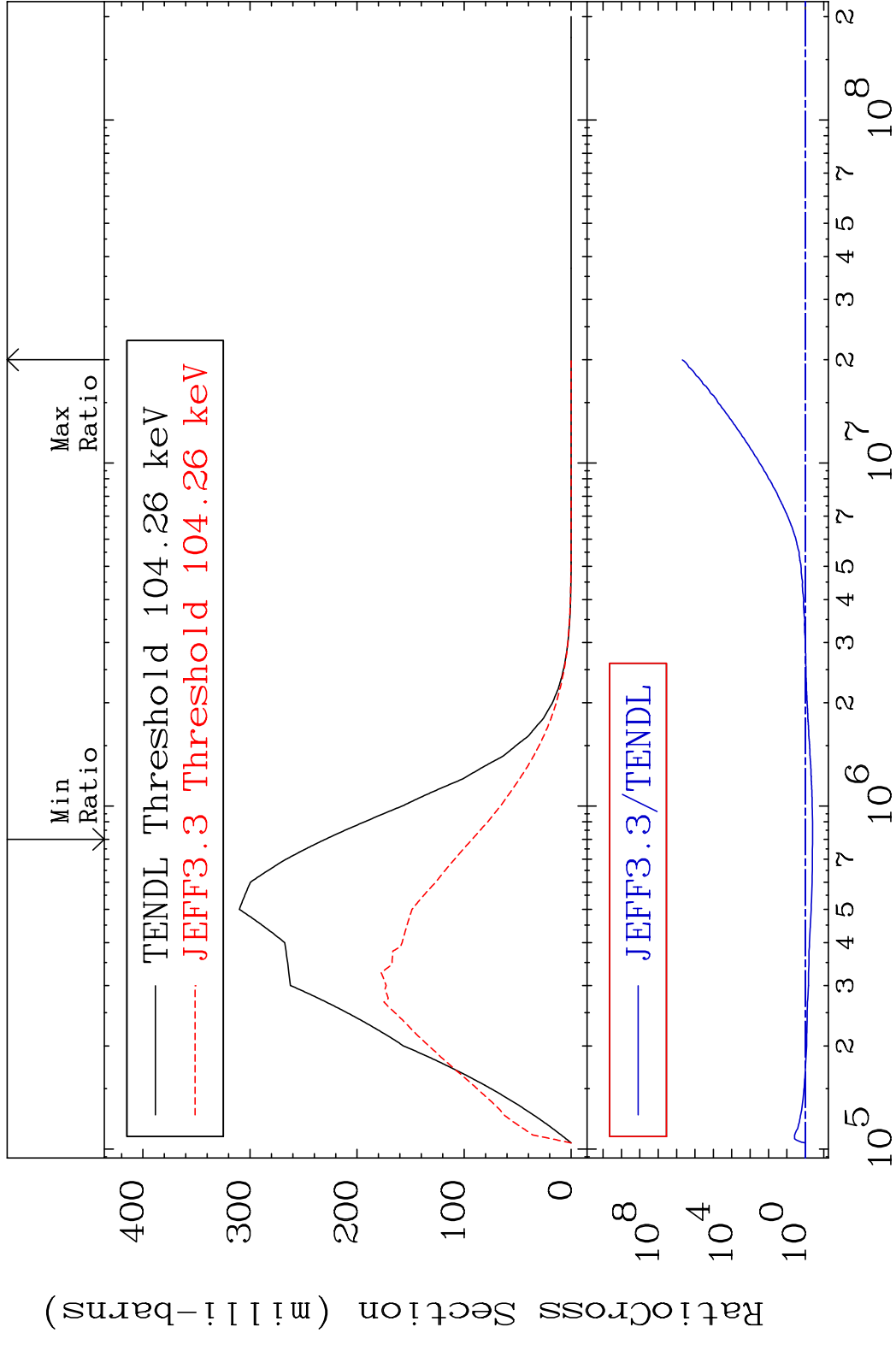


MAT 6340 MT= 53 (n, n') Level 63-Eu-156
 Cross Section -100.0 To 1015. %



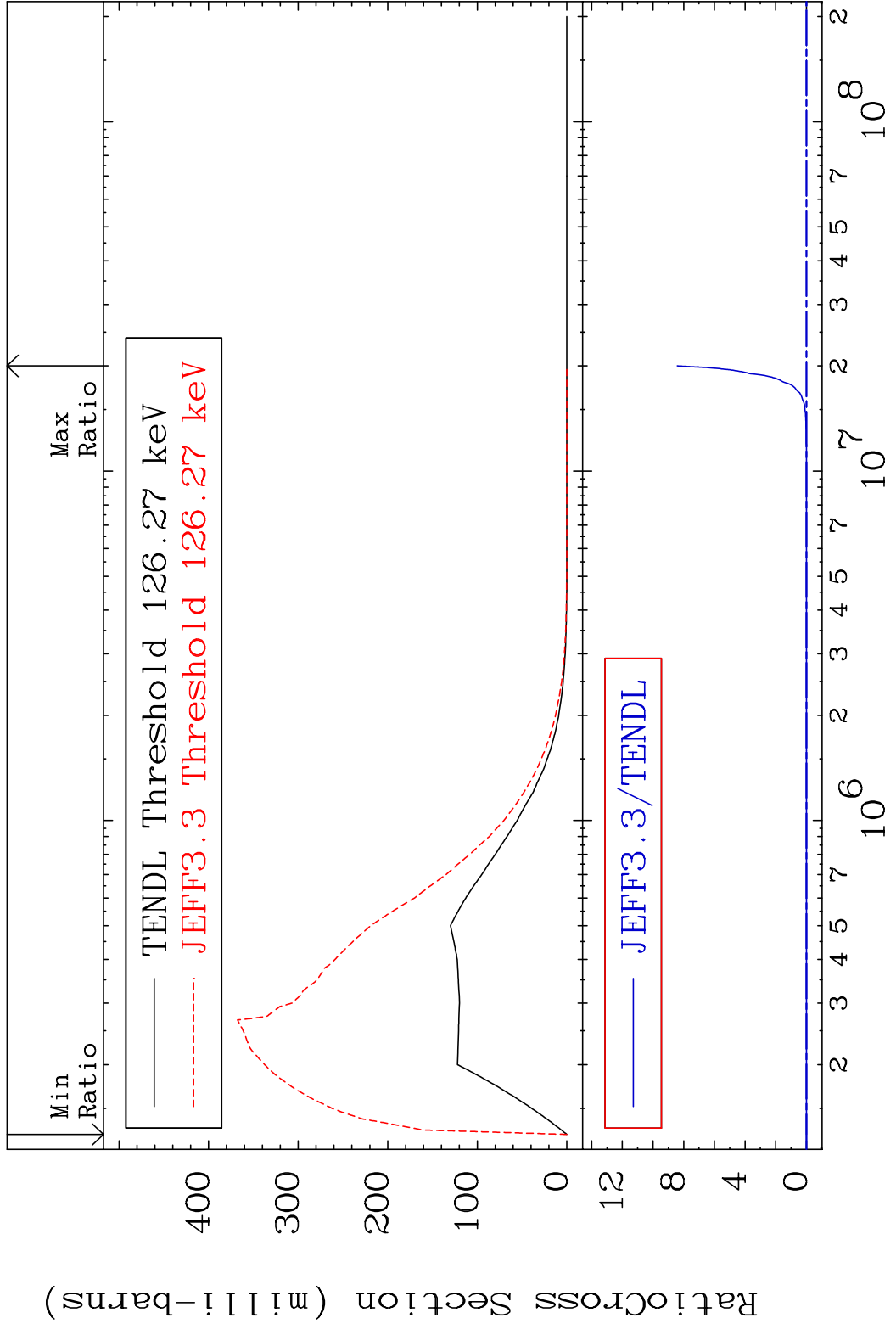
14 Incident Energy (eV) 63-Eu-156

MAT 6340 MT= 54 (n,n') Level 63-Eu-156
 Cross Section -59.77 To 9999. %

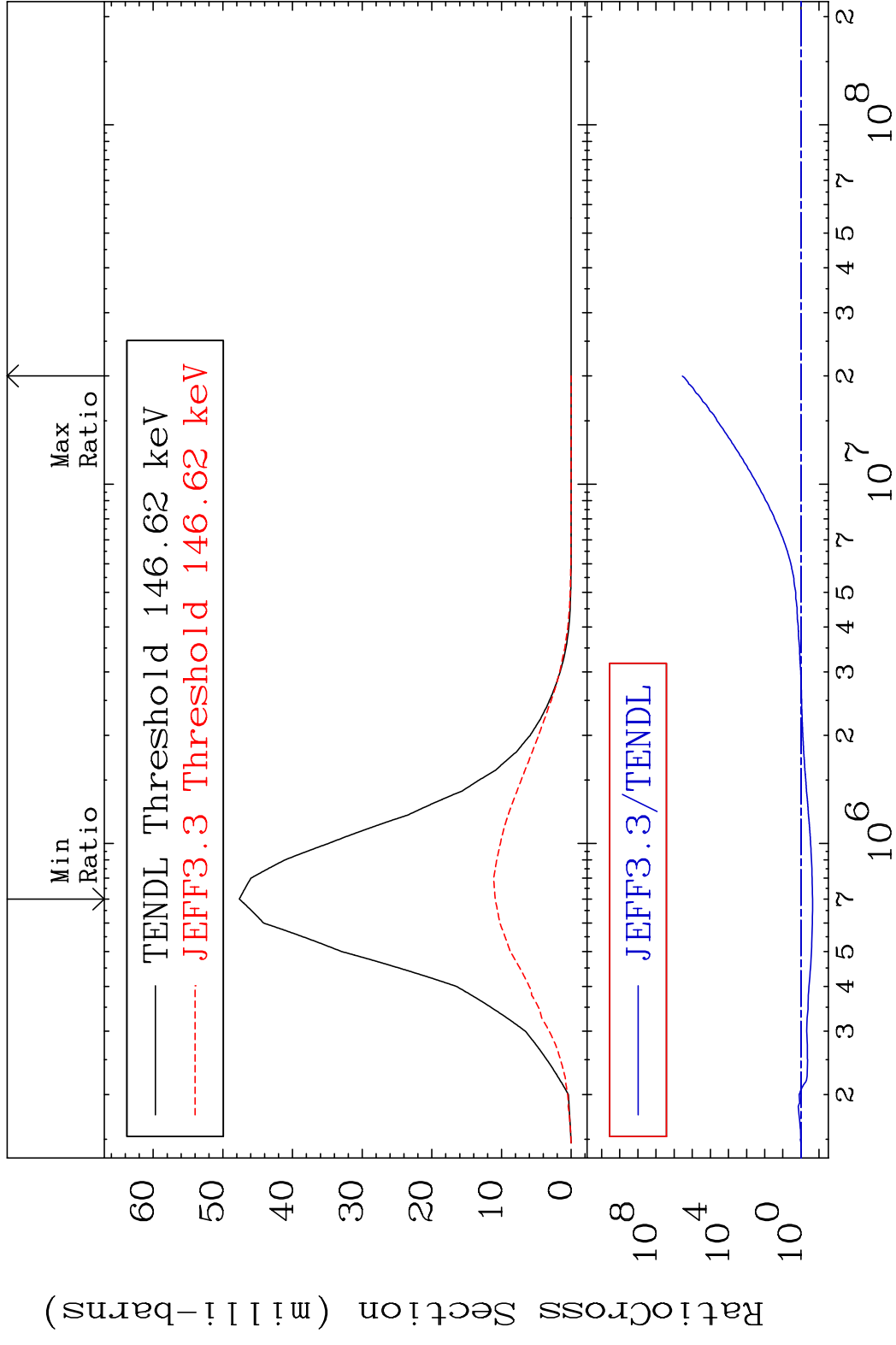


15 Incident Energy (eV) 63-Eu-156

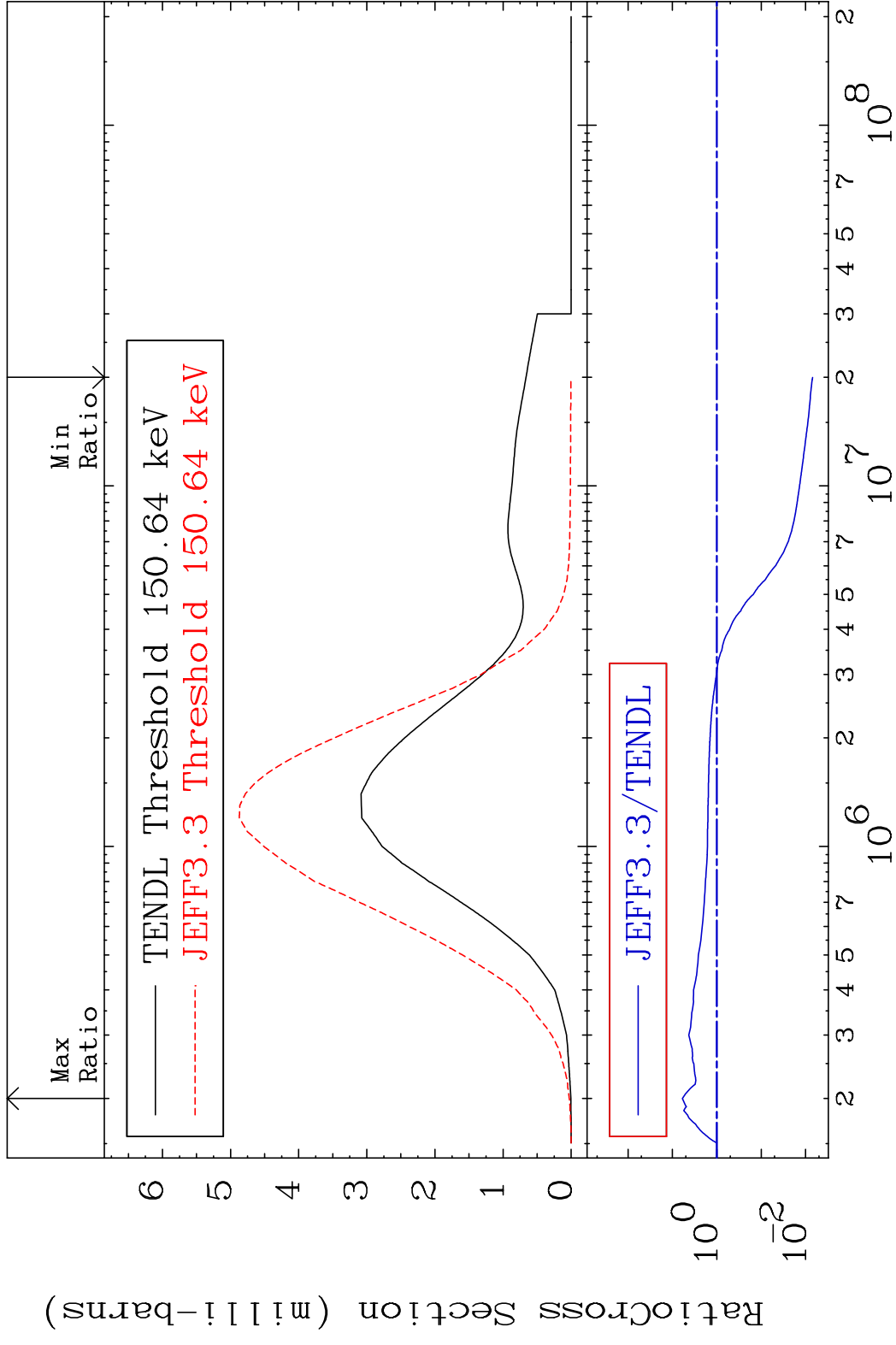
MAT 6340 MT= 55 (n,n') Level 63-Eu-156
 Cross Section -100.0 To 9999. %



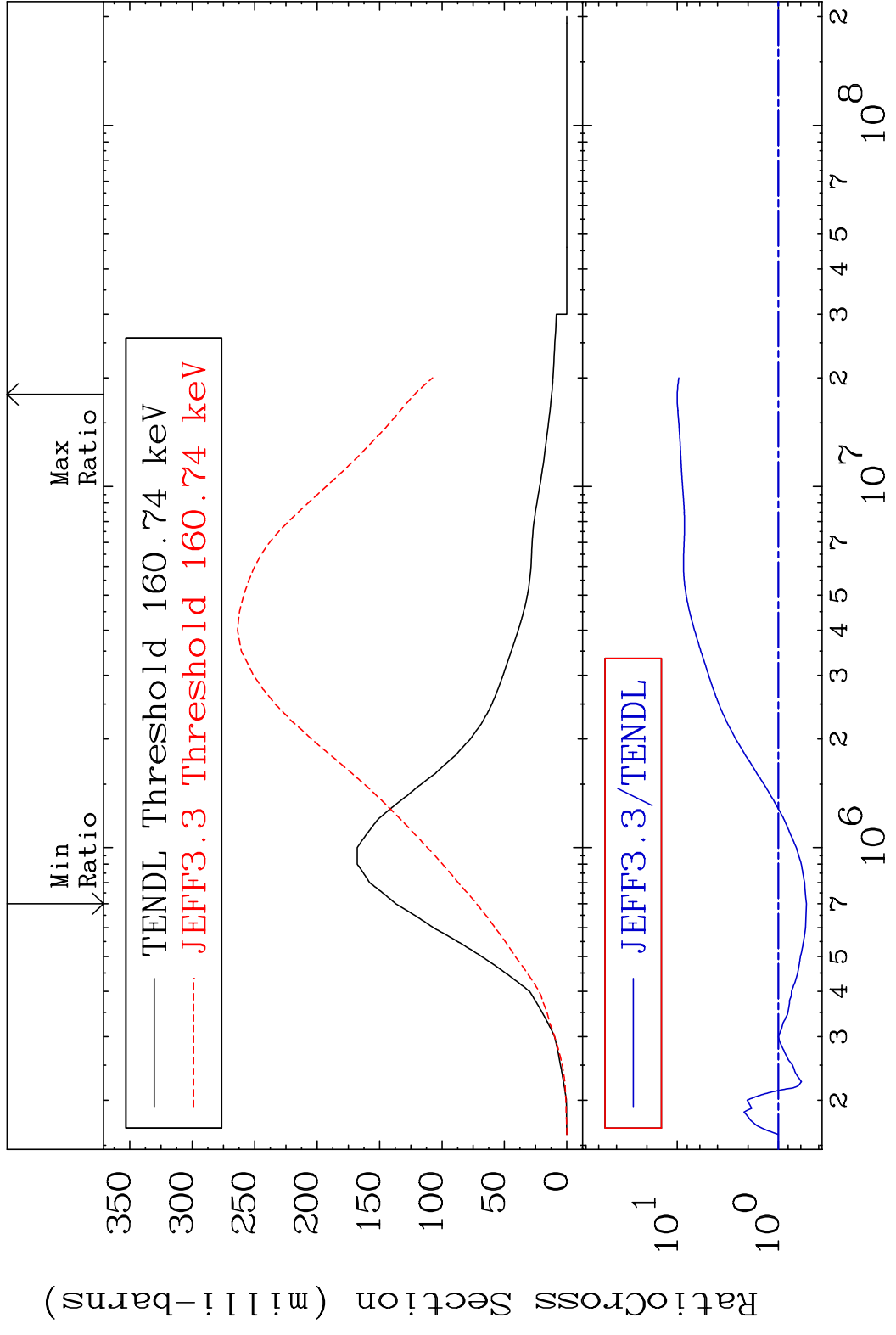
MAT 6340 MT= 56 (n,n') Level 63-Eu-156
 Cross Section -77.10 To 9999. %



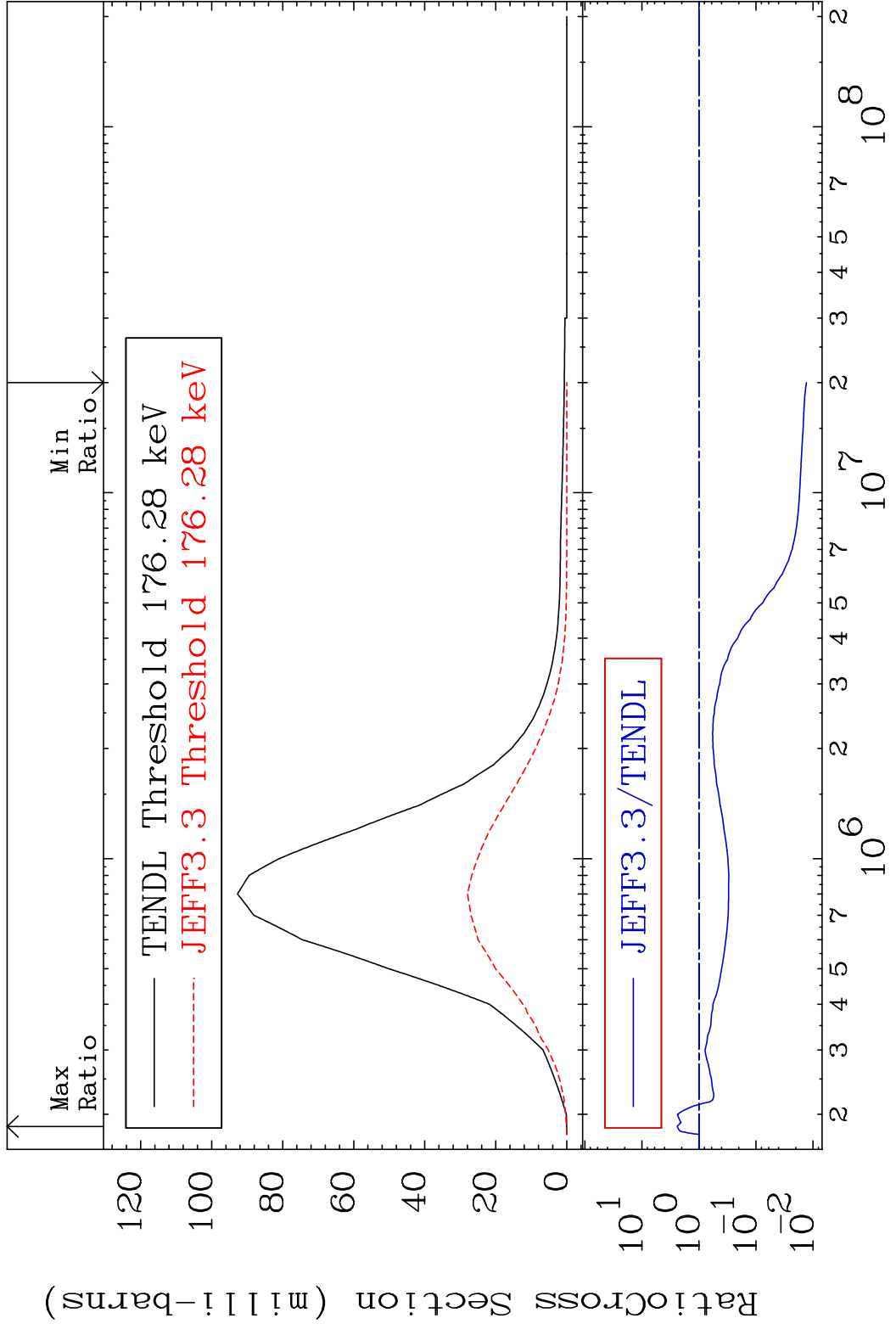
MAT 6340 MT= 57 (n, n') Level 63-Eu-156
 Cross Section -99.30 To 498.6 %



MAT 6340 MT= 58 (n, n') Level 63-Eu-156
 Cross Section -47.16 To 903.3 %

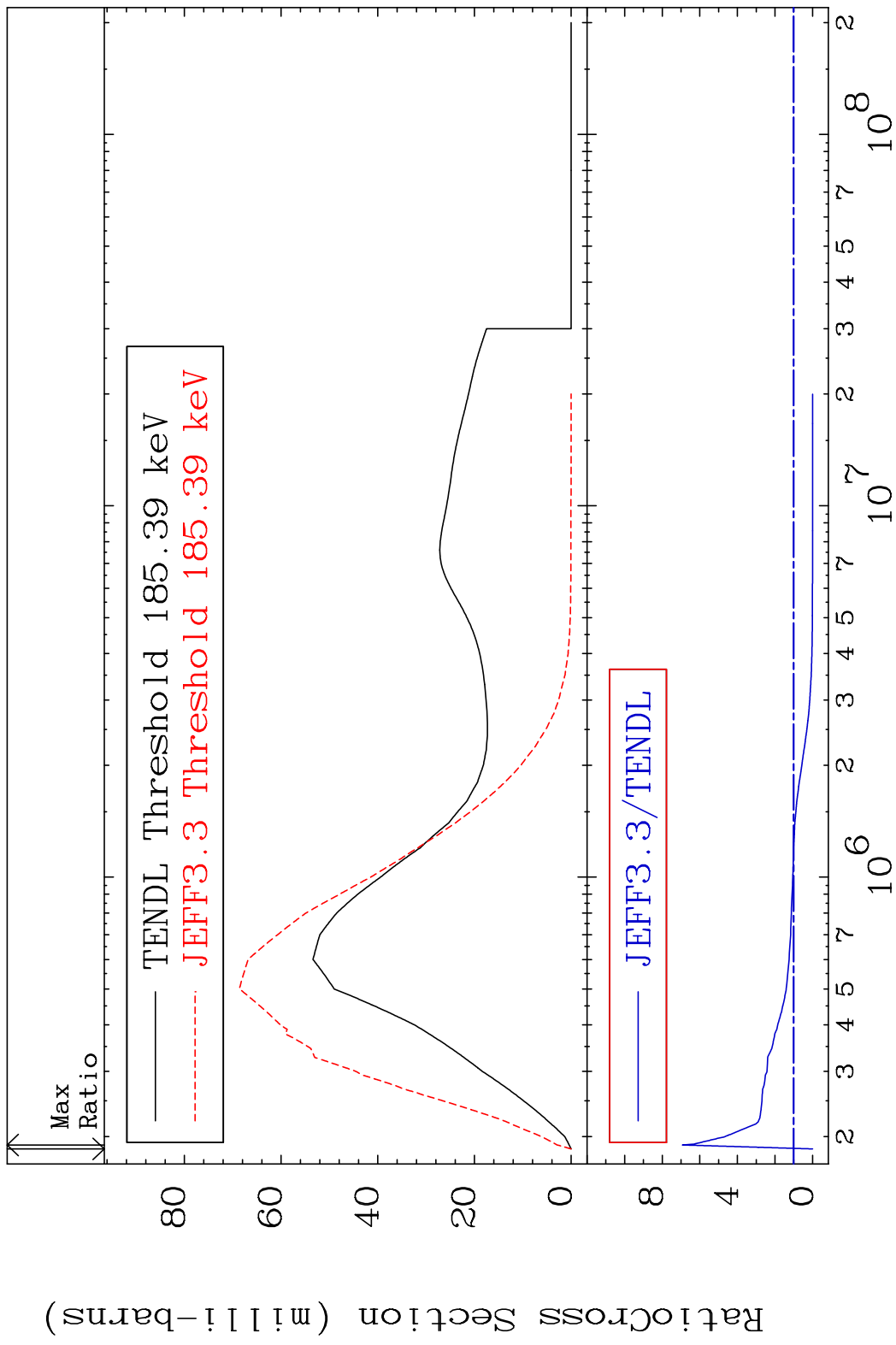


MAT 6340 MT= 59 (n, n') Level 63-Eu-156
 Cross Section -98.70 To 140.5 %

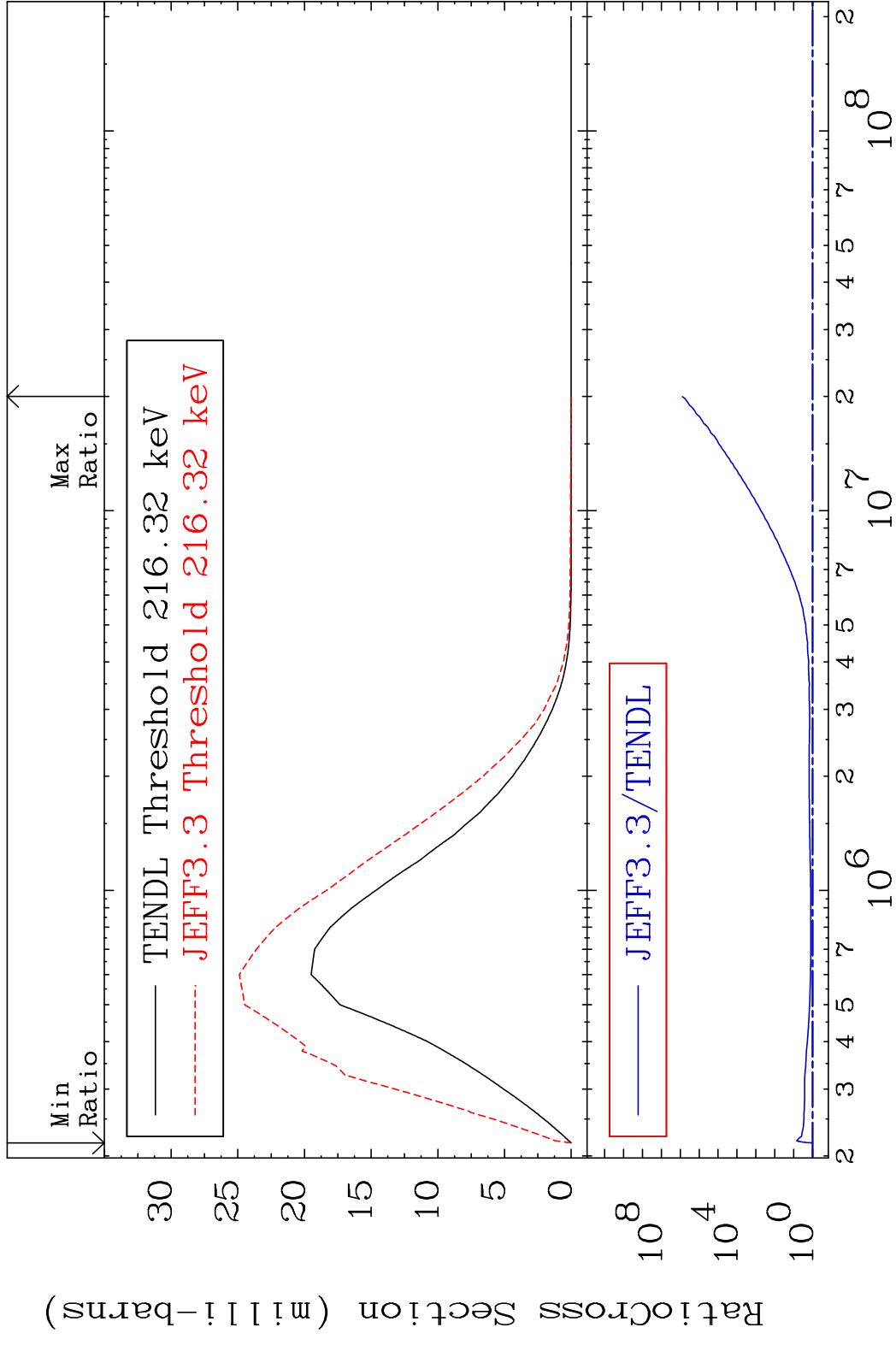


20 Incident Energy (eV) 63-Eu-156

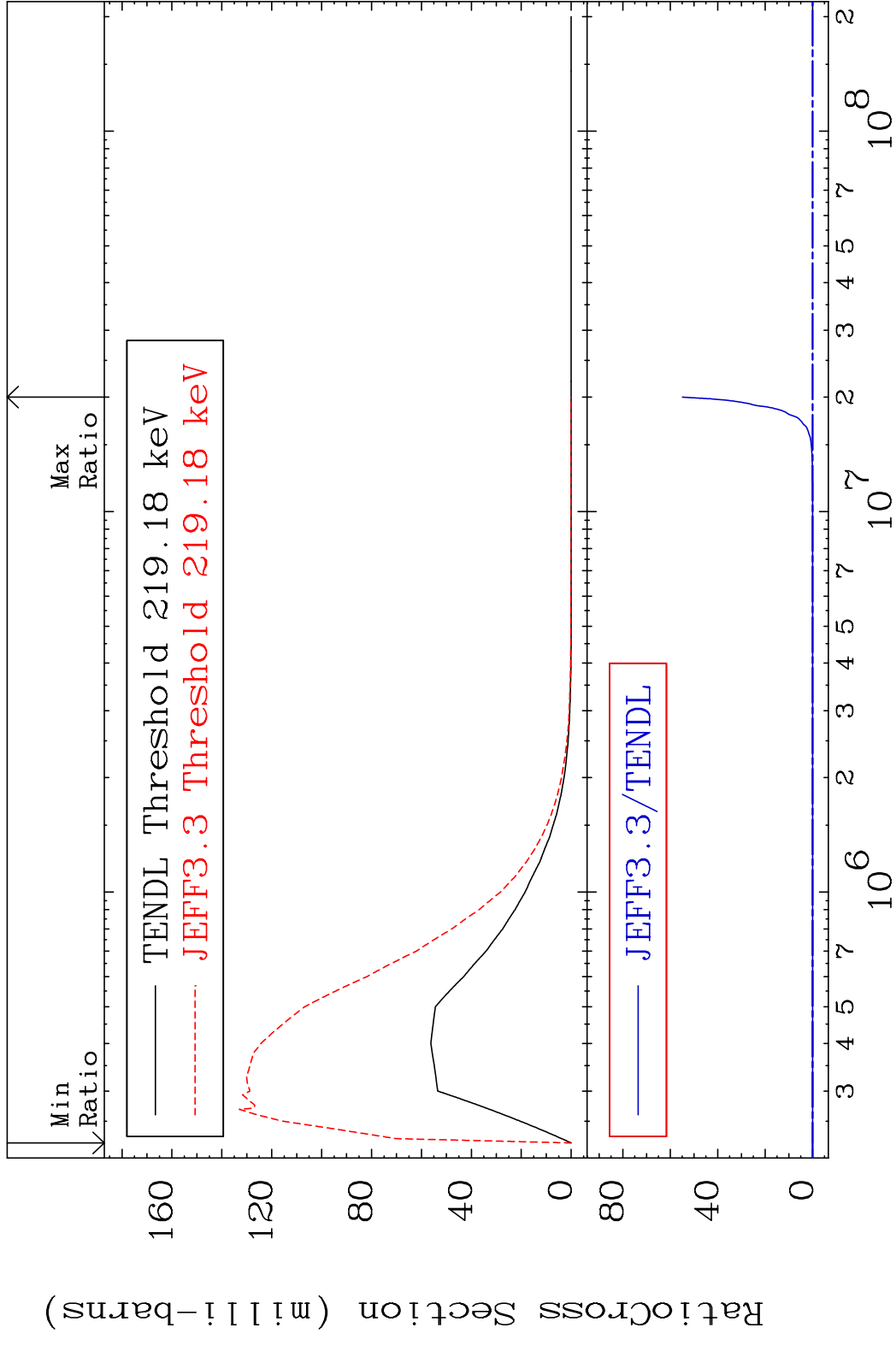
MAT 6340 MT= 60 (n, n') Level 63-Eu-156
 Cross Section -100.0 To 592.9 %



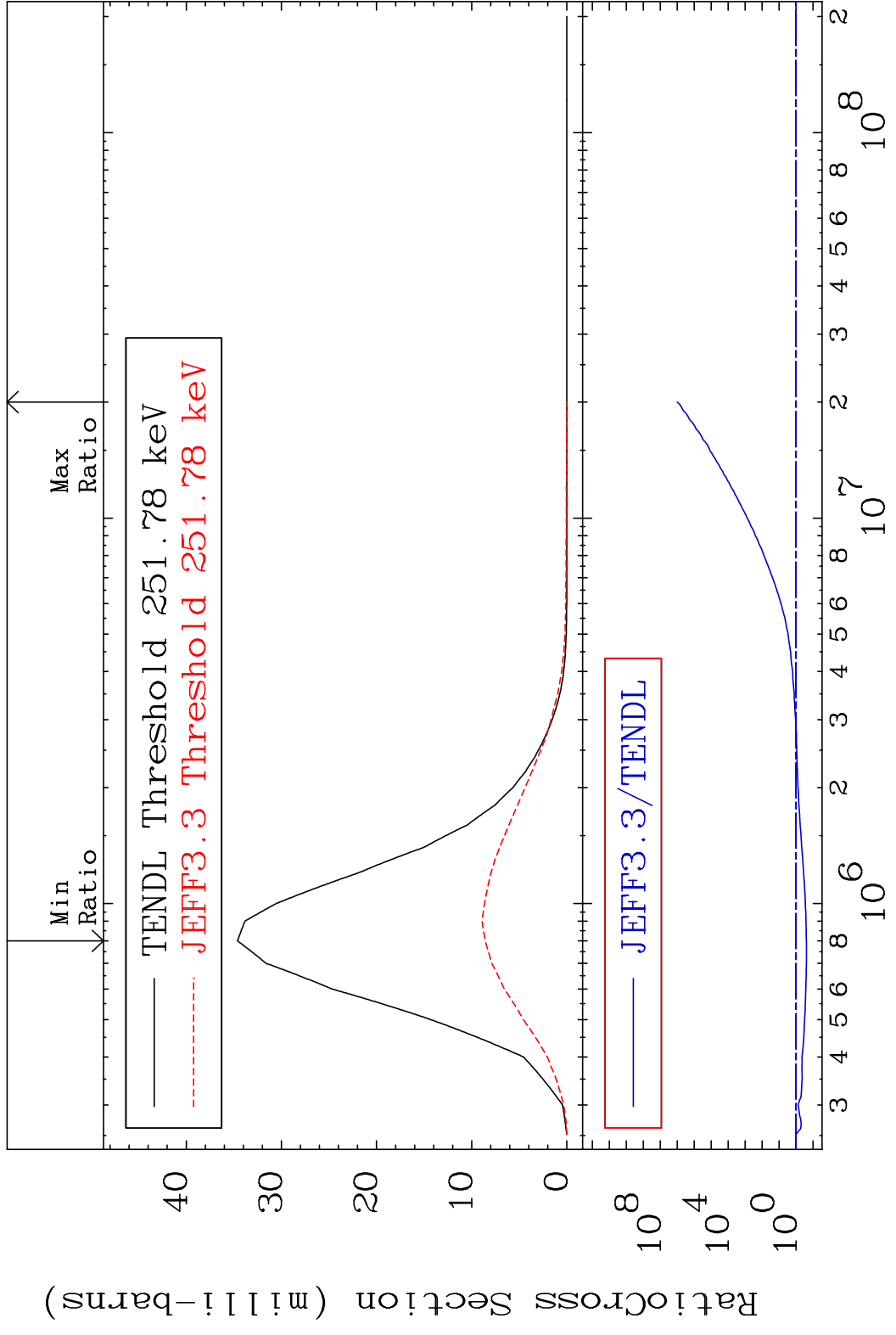
MAT 6340 MT= 61 (n, n') Level 63-Eu-156
 Cross Section 0.000 To 9999. %



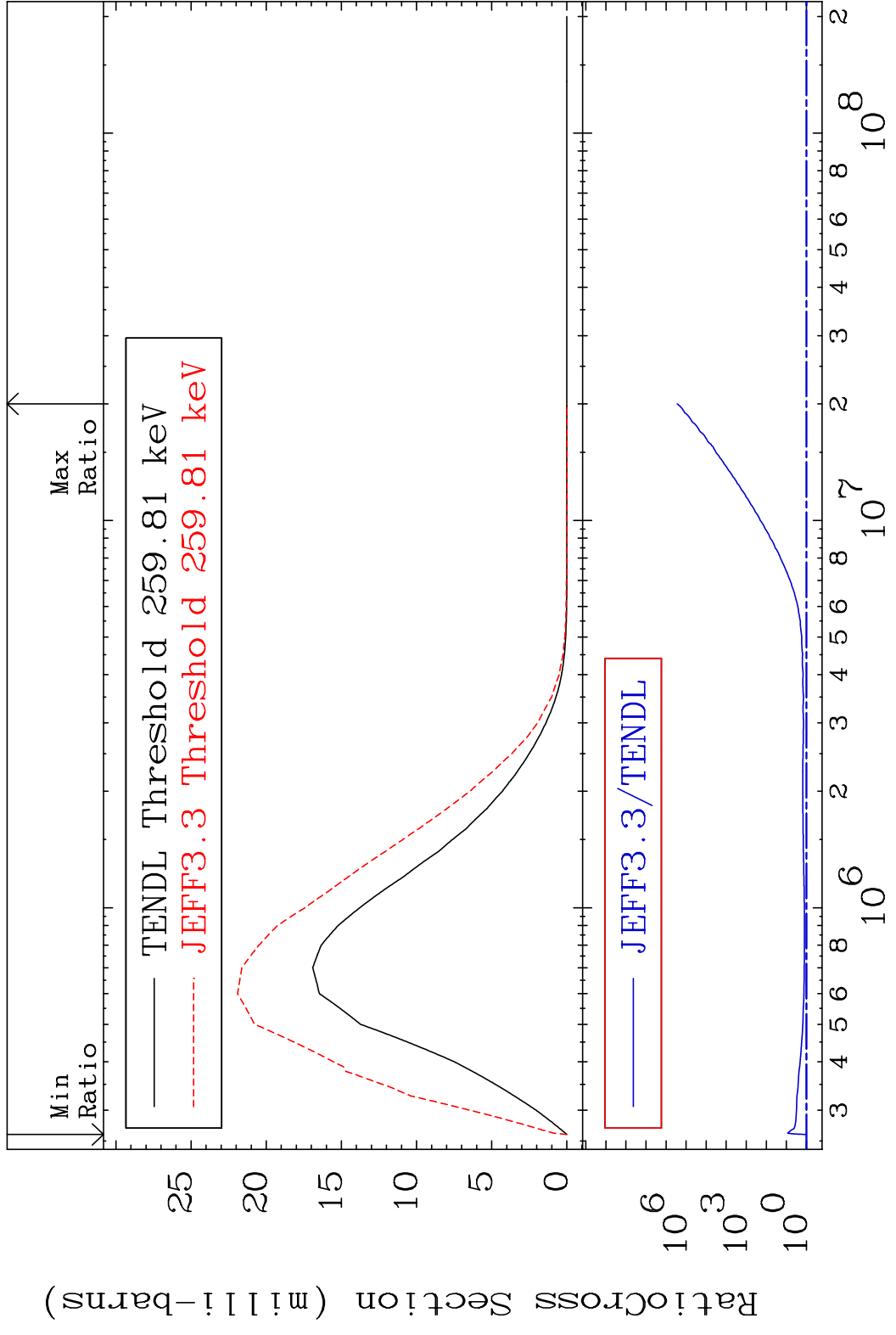
MAT 6340 MT= 62 (n, n') Level 63-Eu-156
 Cross Section -100.0 To 9999. %



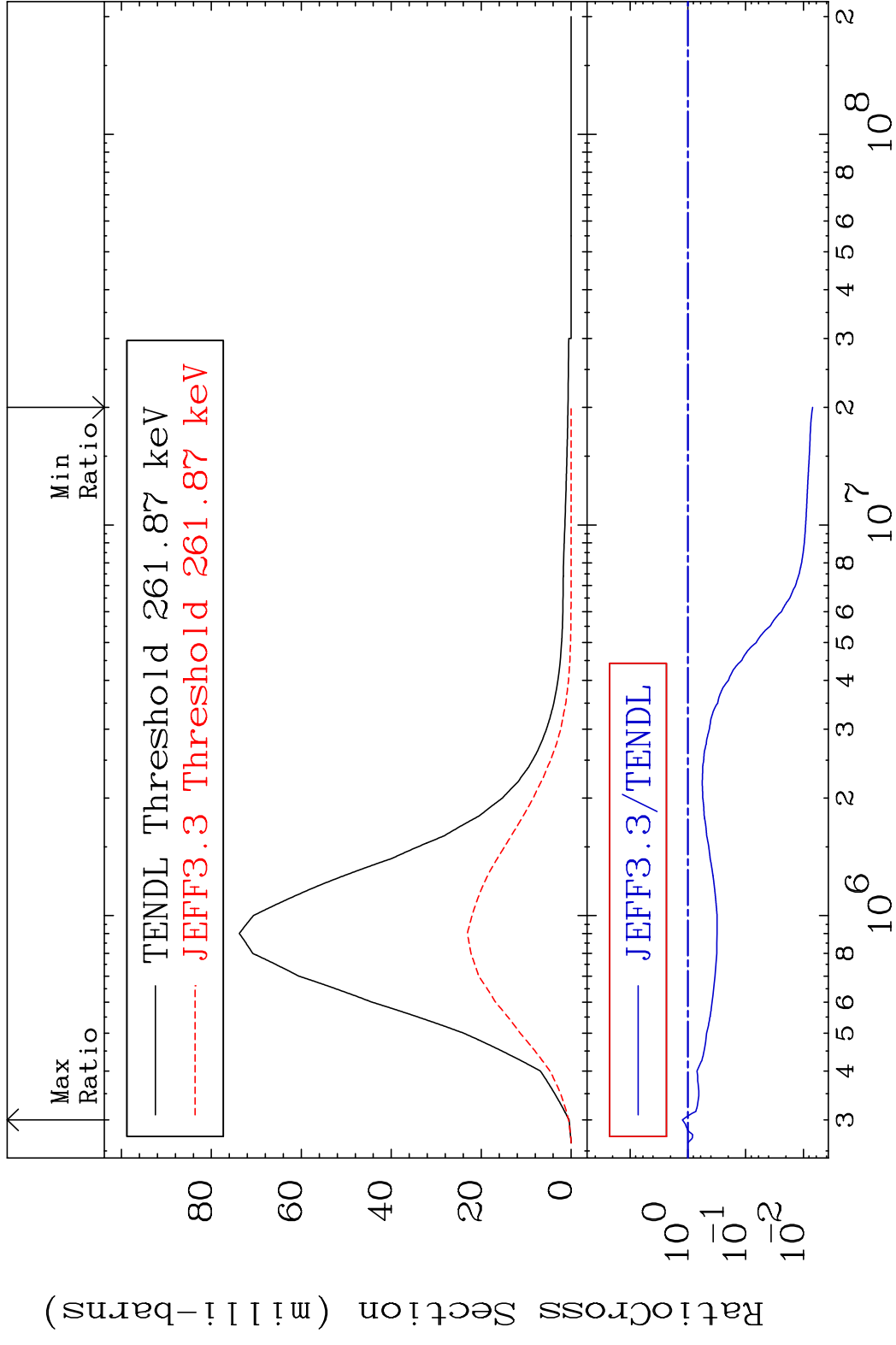
MAT 6340 MT= 63 (n, n') Level 63-Eu-156
 Cross Section -75.19 To 9999. %



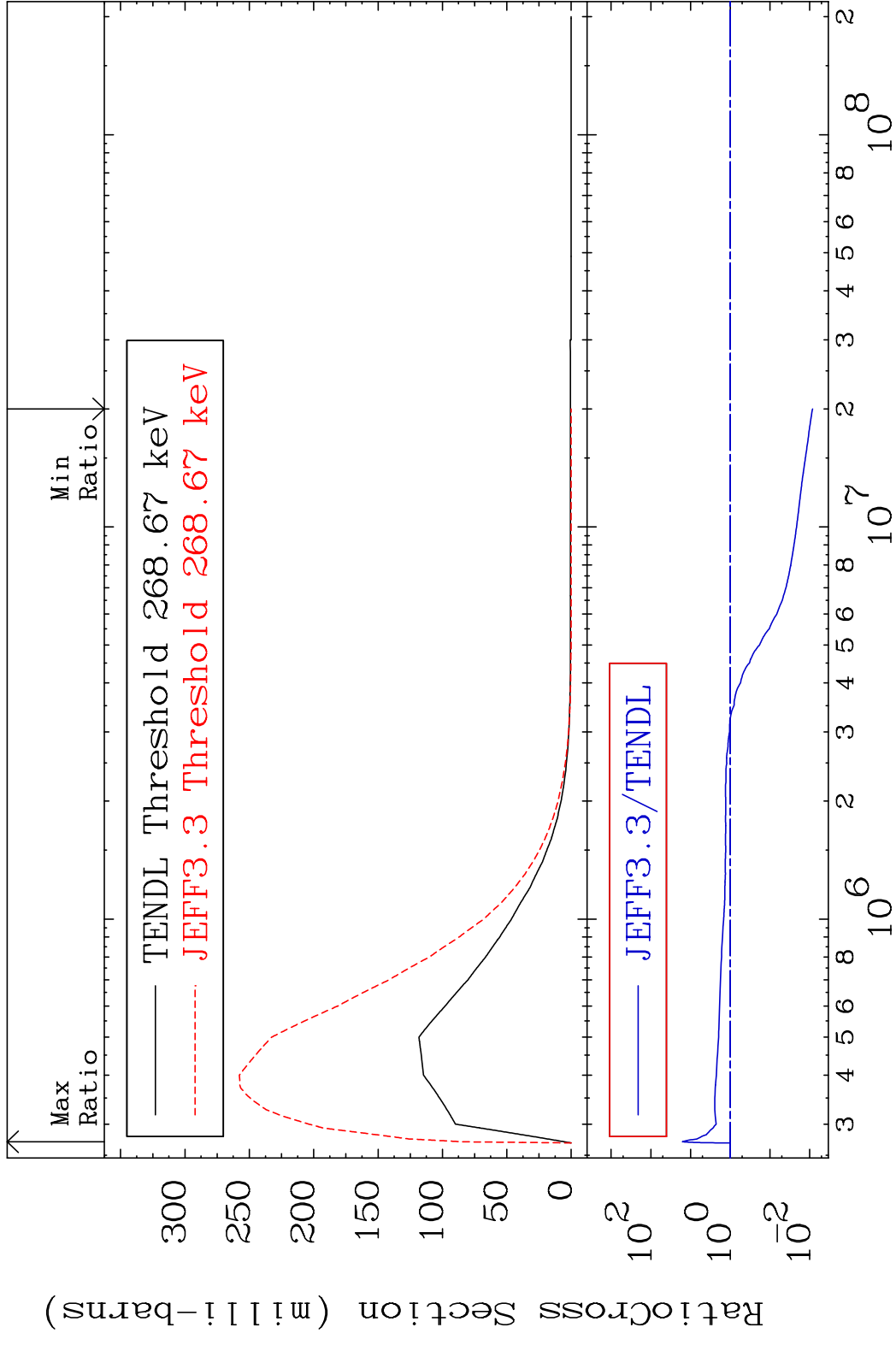
MAT 6340 MT= 64 (n, n') Level 63-Eu-156
 Cross Section 0.000 To 9999. %



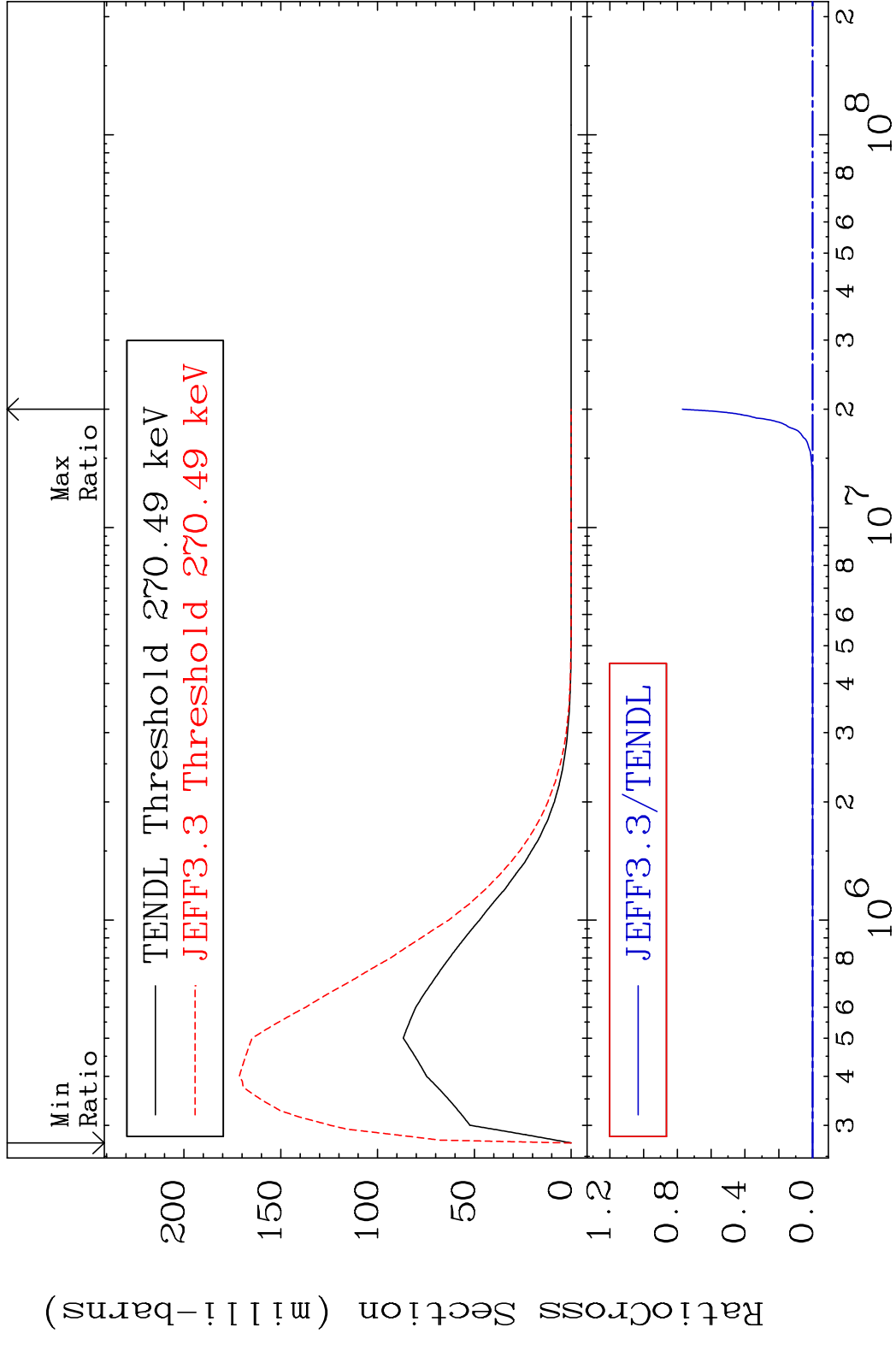
MAT 6340 MT= 65 (n,n') Level 63-Eu-156
 Cross Section -99.31 To 24.48 %



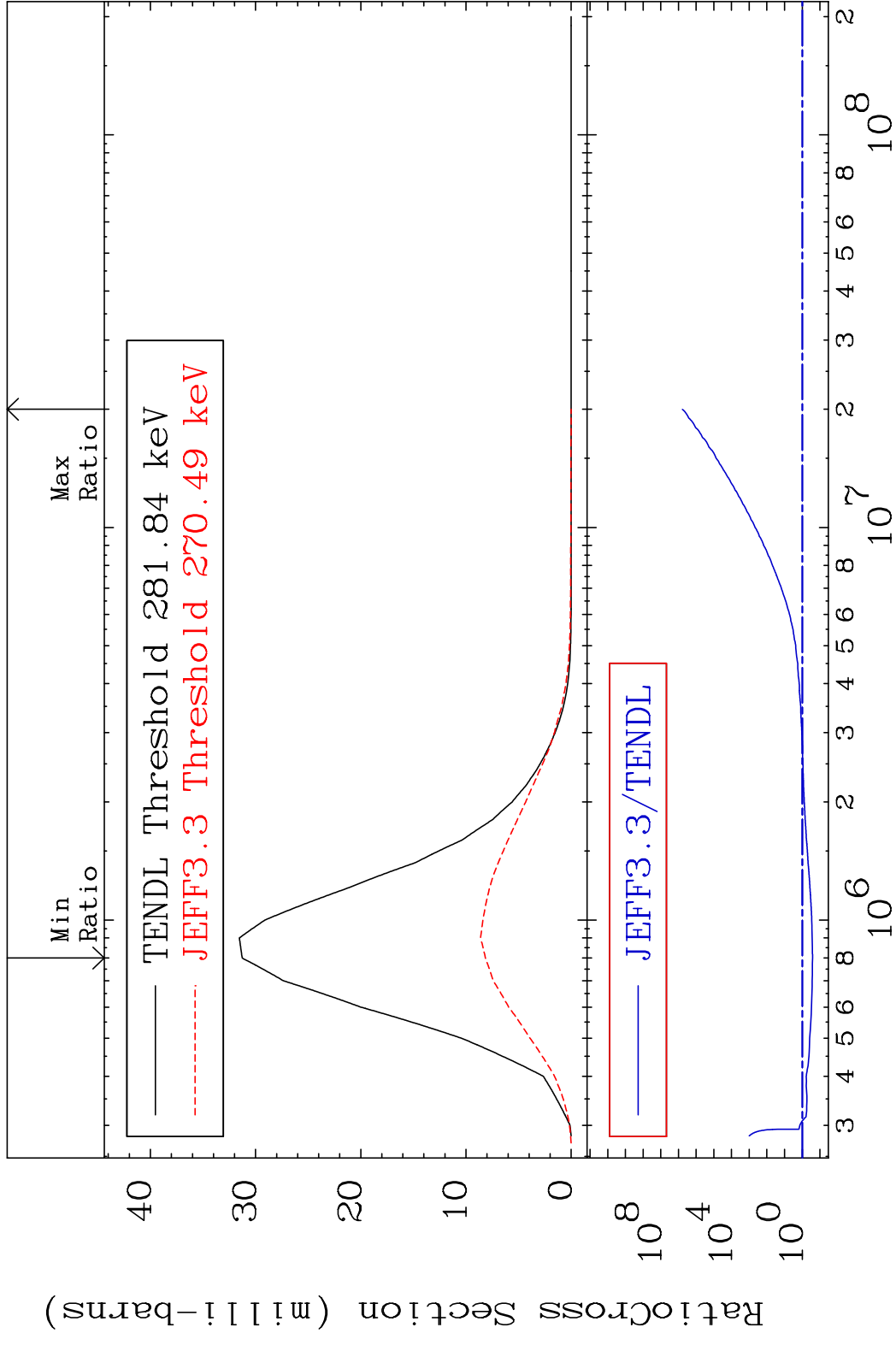
MAT 6340 MT= 66 (n, n') Level 63-Eu-156
 Cross Section -99.16 To 1506. %



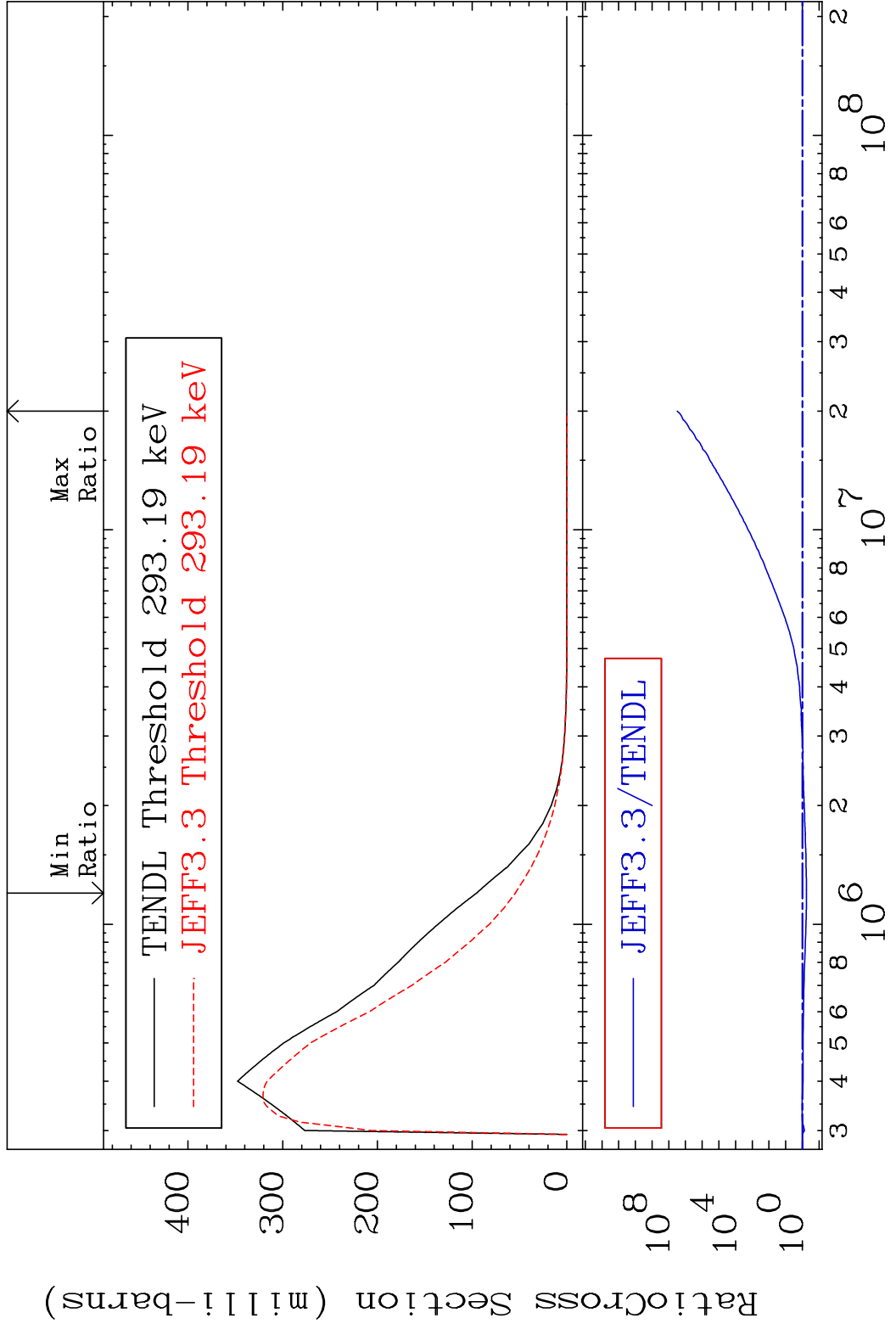
MAT 6340 MT= 67 (n, n') Level 63-Eu-156
 Cross Section -100.0 To 9999. %



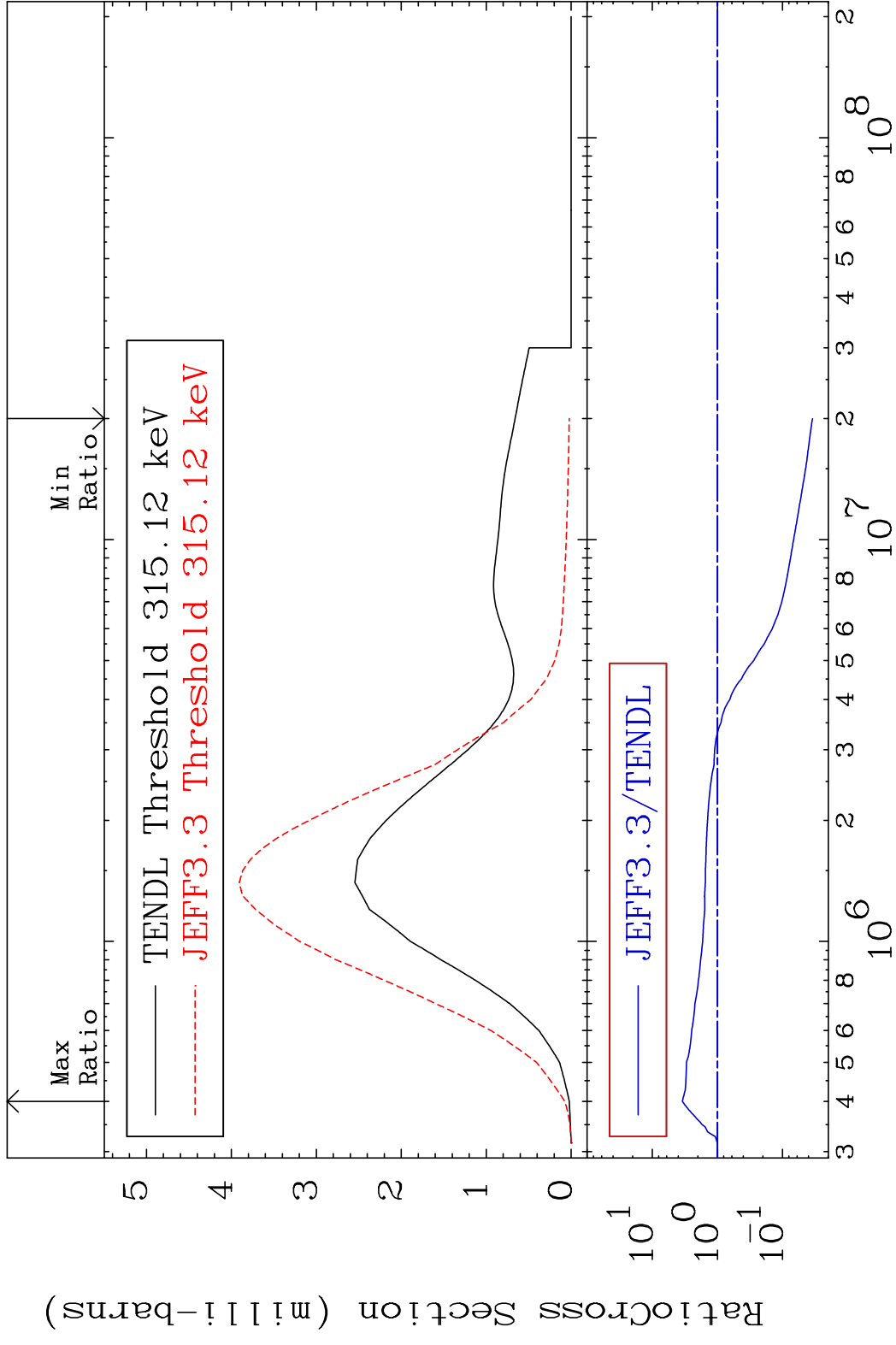
MAT 6340 MT= 68 (n, n') Level 63-Eu-156
 Cross Section -73.94 To 9999. %



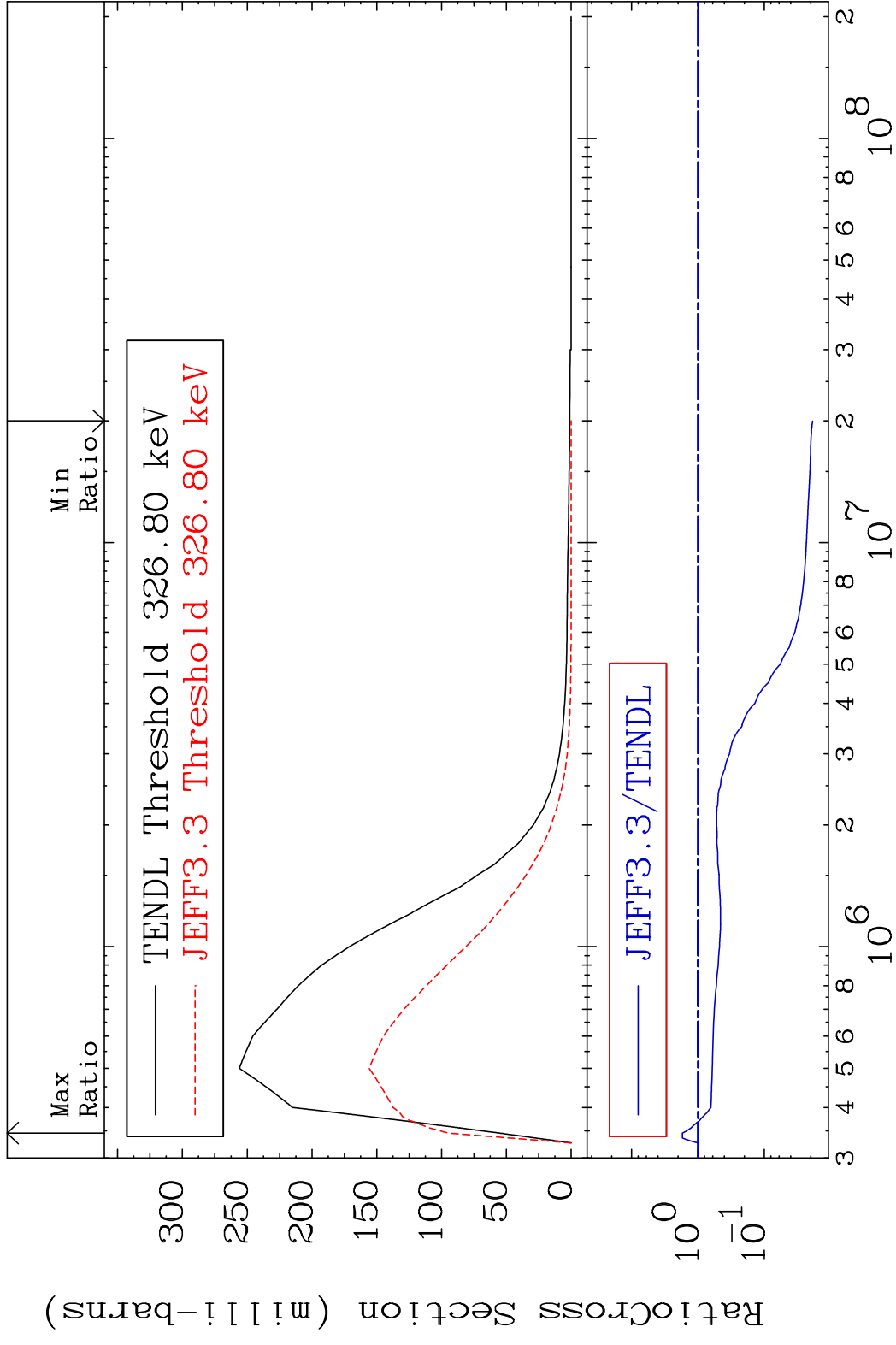
MAT 6340 MT= 69 (n, n') Level 63-Eu-156
 Cross Section -42.85 To 9999. %



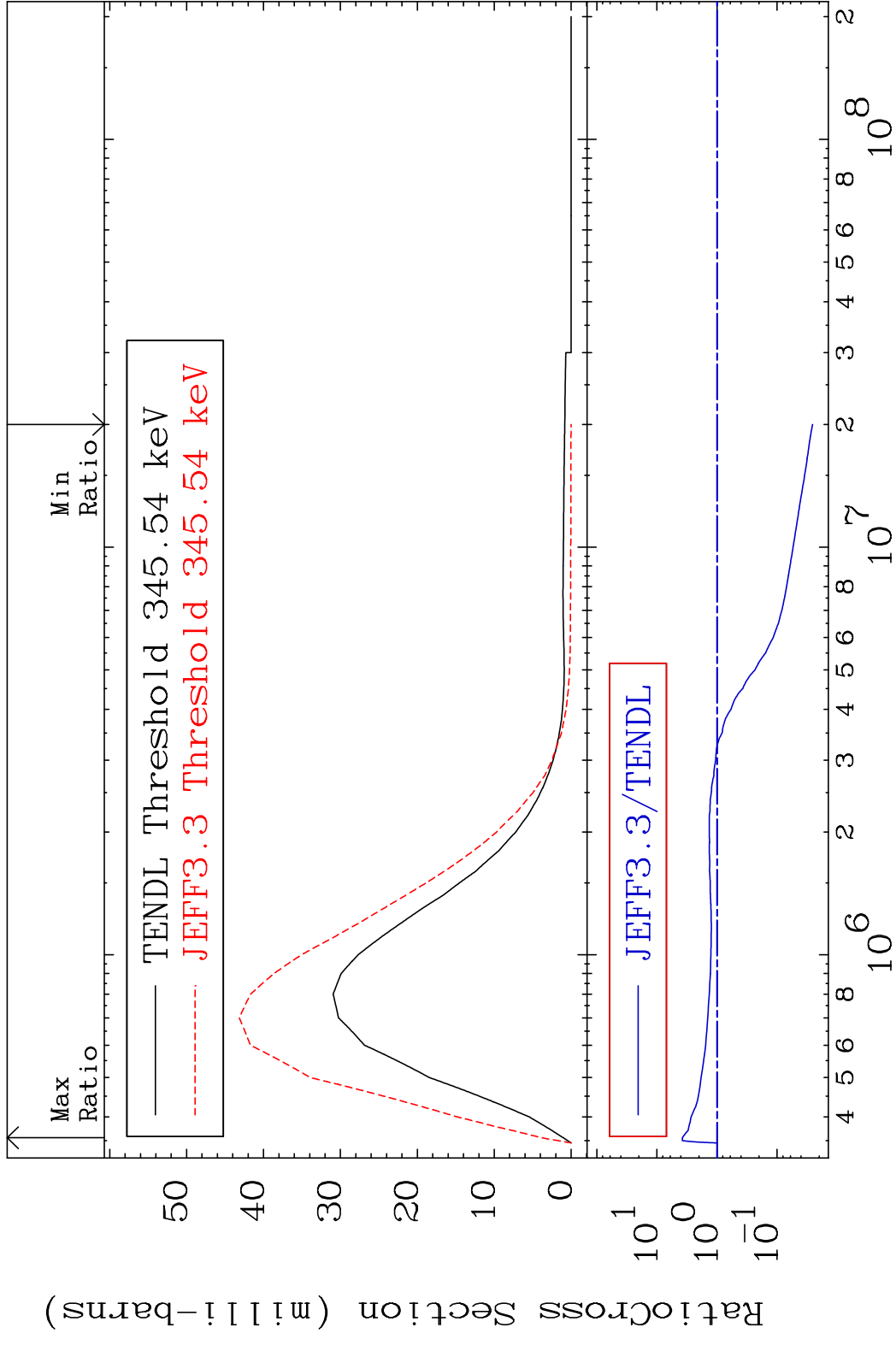
MAT 6340 MT= 70 (n, n') Level 63-Eu-156
 Cross Section -96.54 To 245.4 %



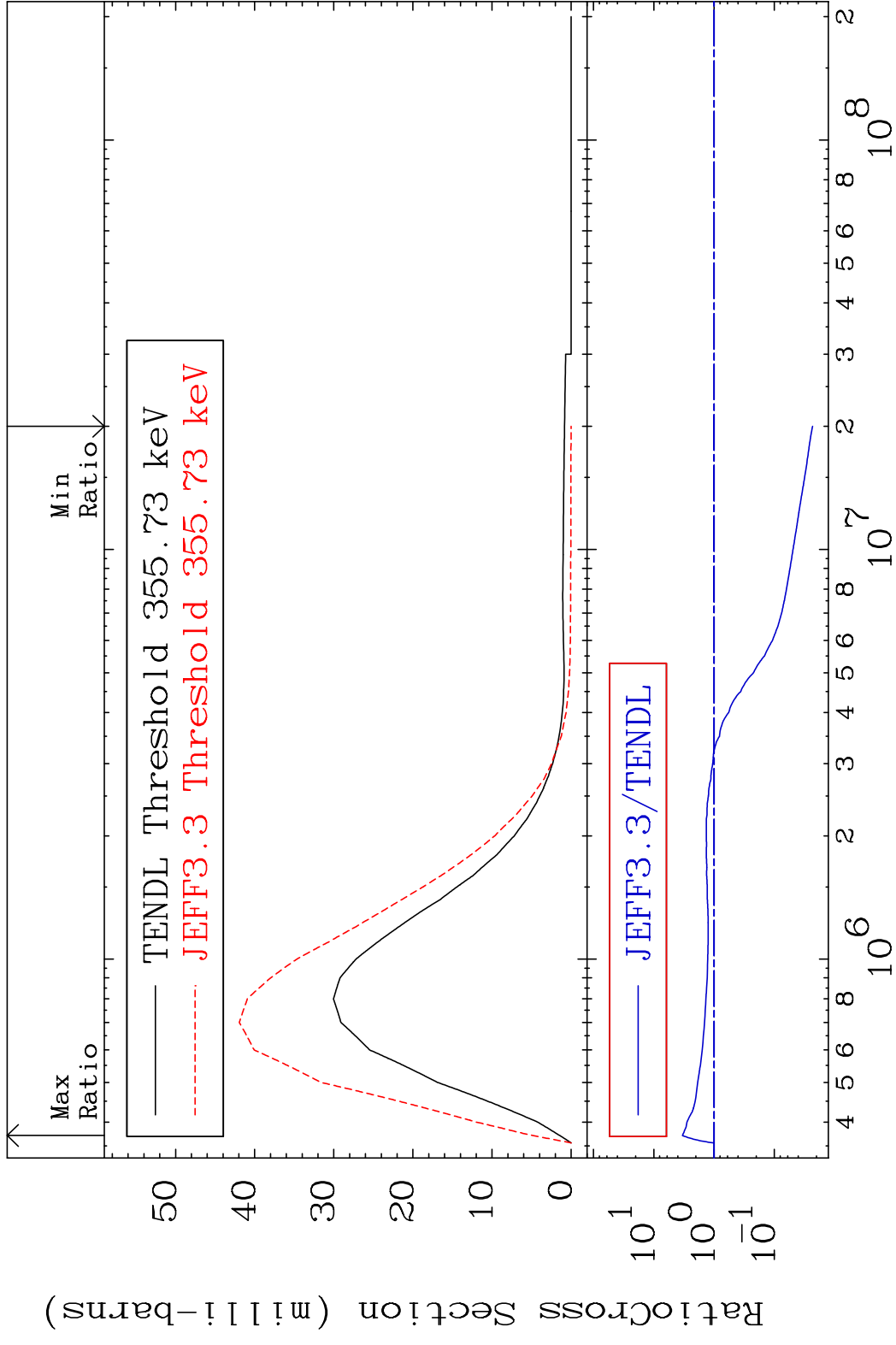
MAT 6340 MT= 71 (n, n') Level 63-Eu-156
 Cross Section -98.12 To 72.05 %



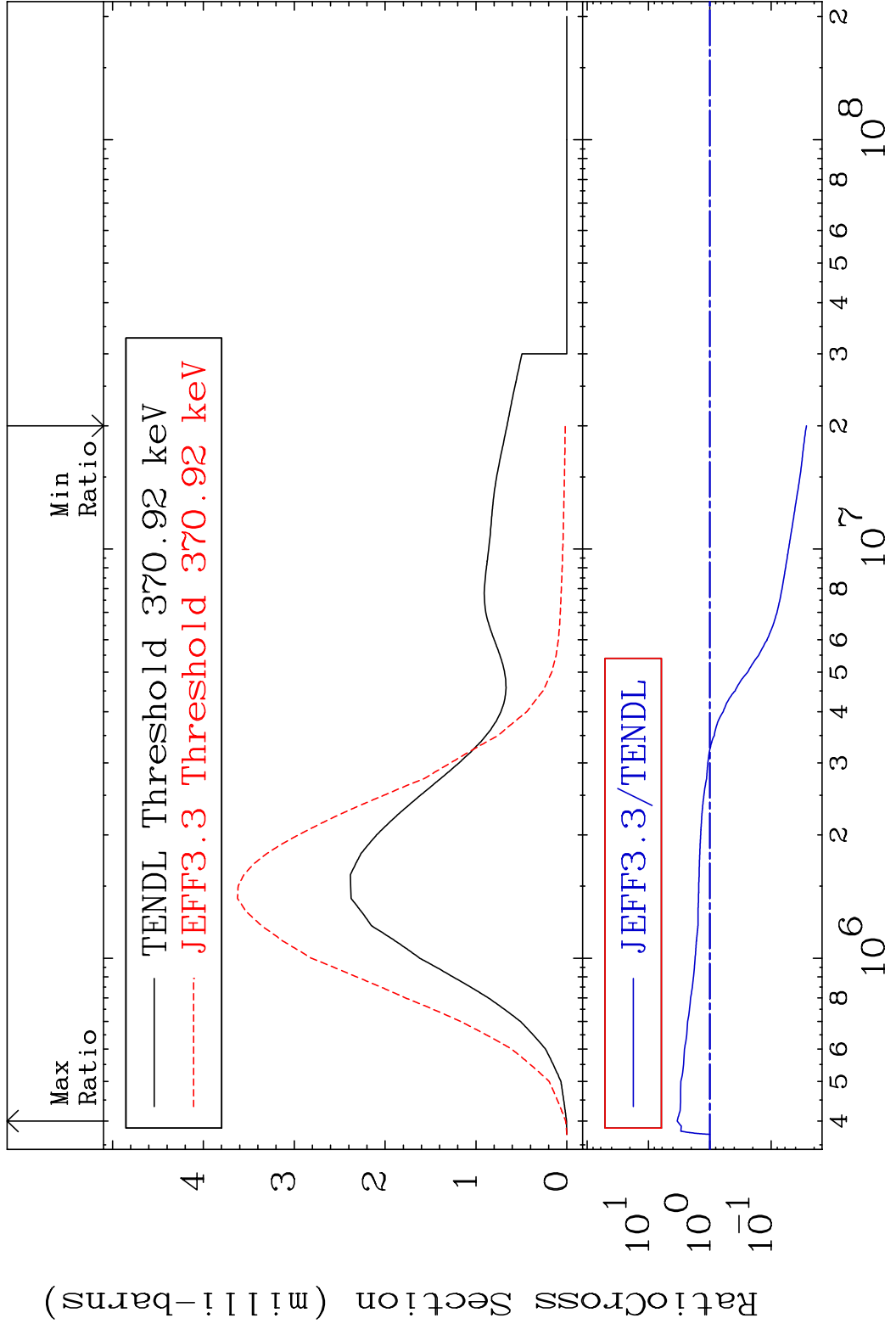
MAT 6340 MT= 72 (n, n') Level 63-Eu-156
 Cross Section -97.43 To 277.4 %



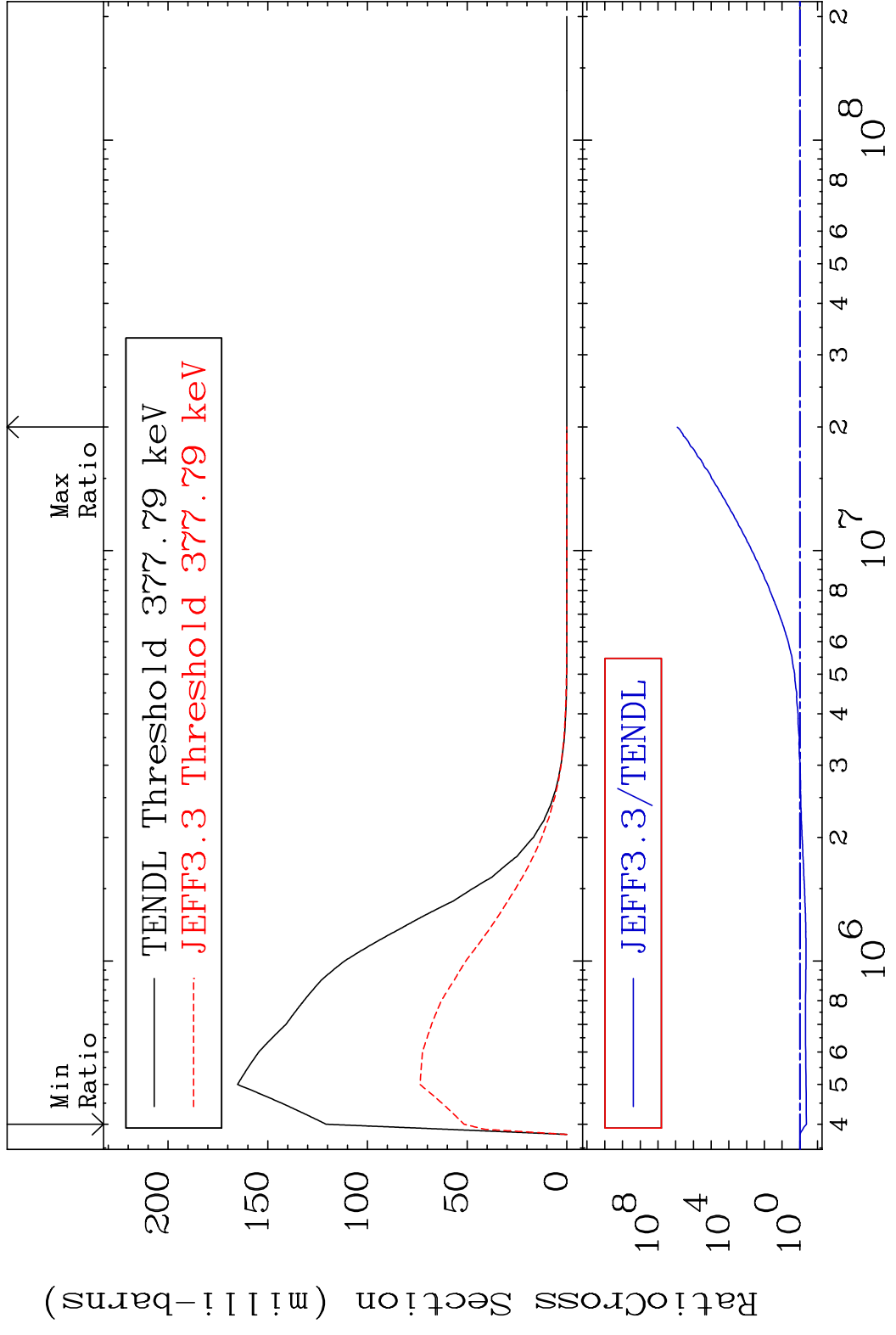
MAT 6340 MT= 73 (n, n') Level 63-Eu-156
 Cross Section -97.68 To 235.7 %



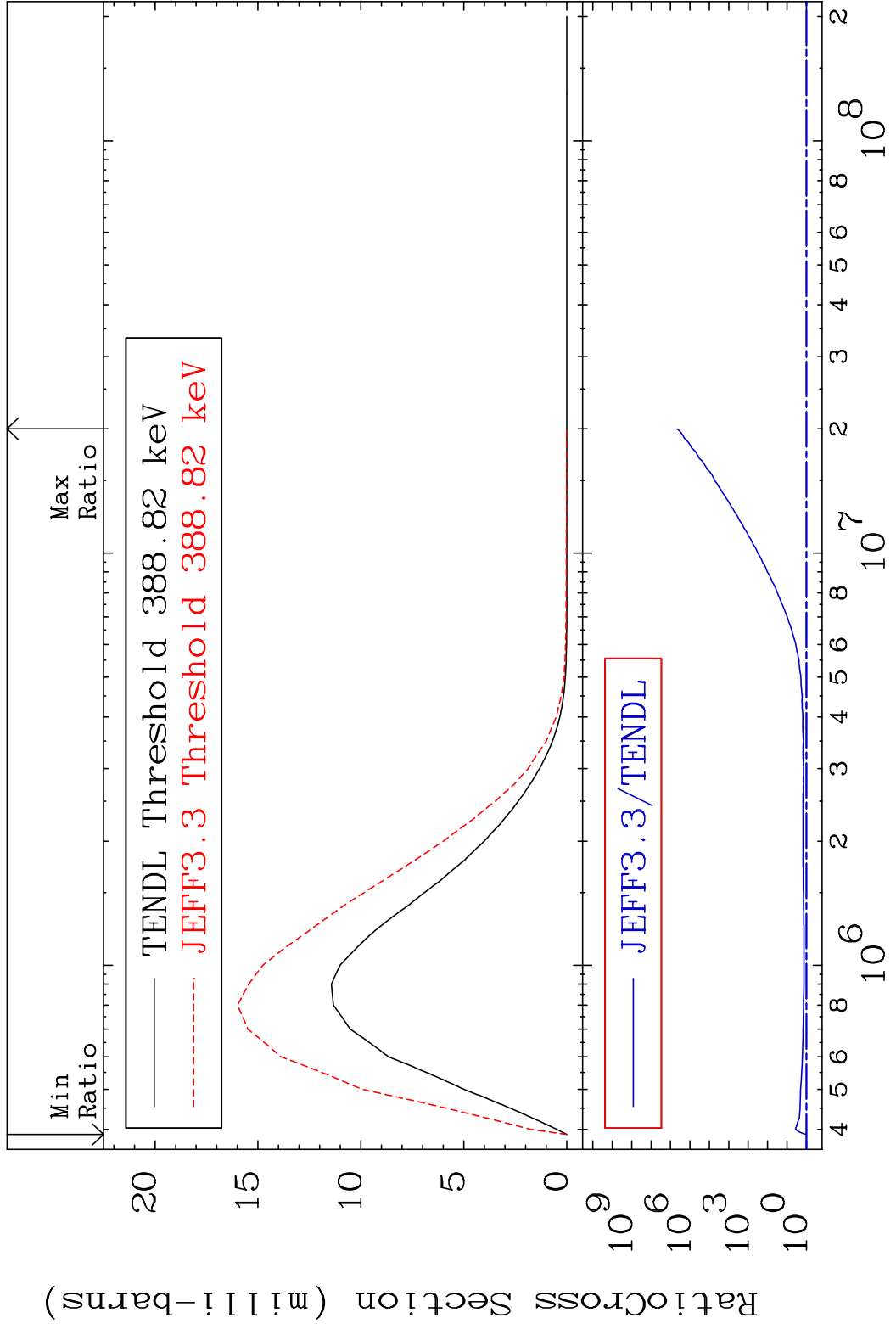
MAT 6340 MT= 74 (n, n') Level 63-Eu-156
 Cross Section -97.32 To 240.3 %



MAT 6340 MT= 75 (n, n') Level 63-Eu-156
 Cross Section -57.31 To 9999. %

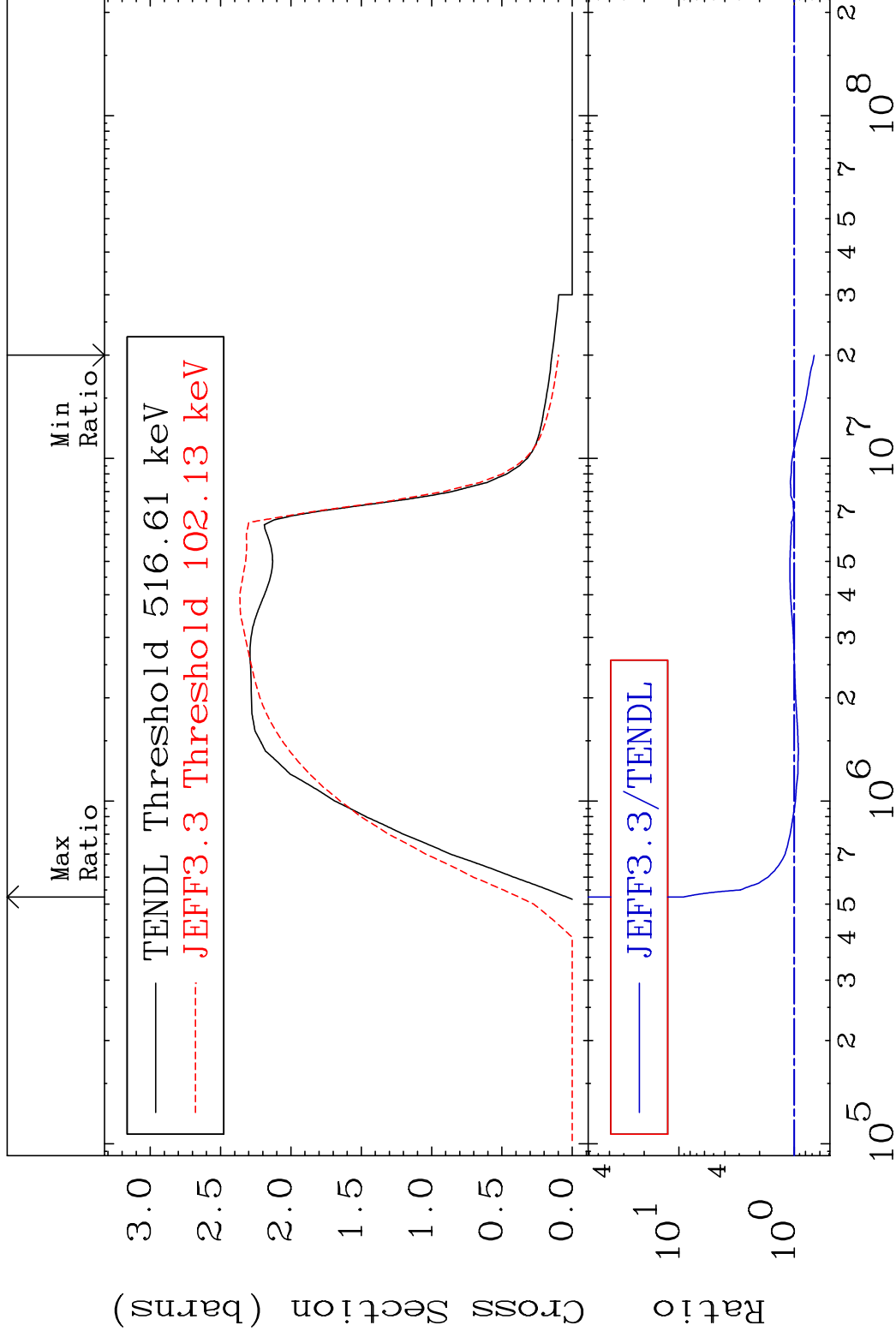


MAT 6340 MT= 76 (n, n') Level 63-Eu-156
 Cross Section 0.000 To 9999. %



MAT 6340

(n, n') Continuum 63-Eu-156
Cross Section -32.62 To 808.9 %



38

Incident Energy (eV)

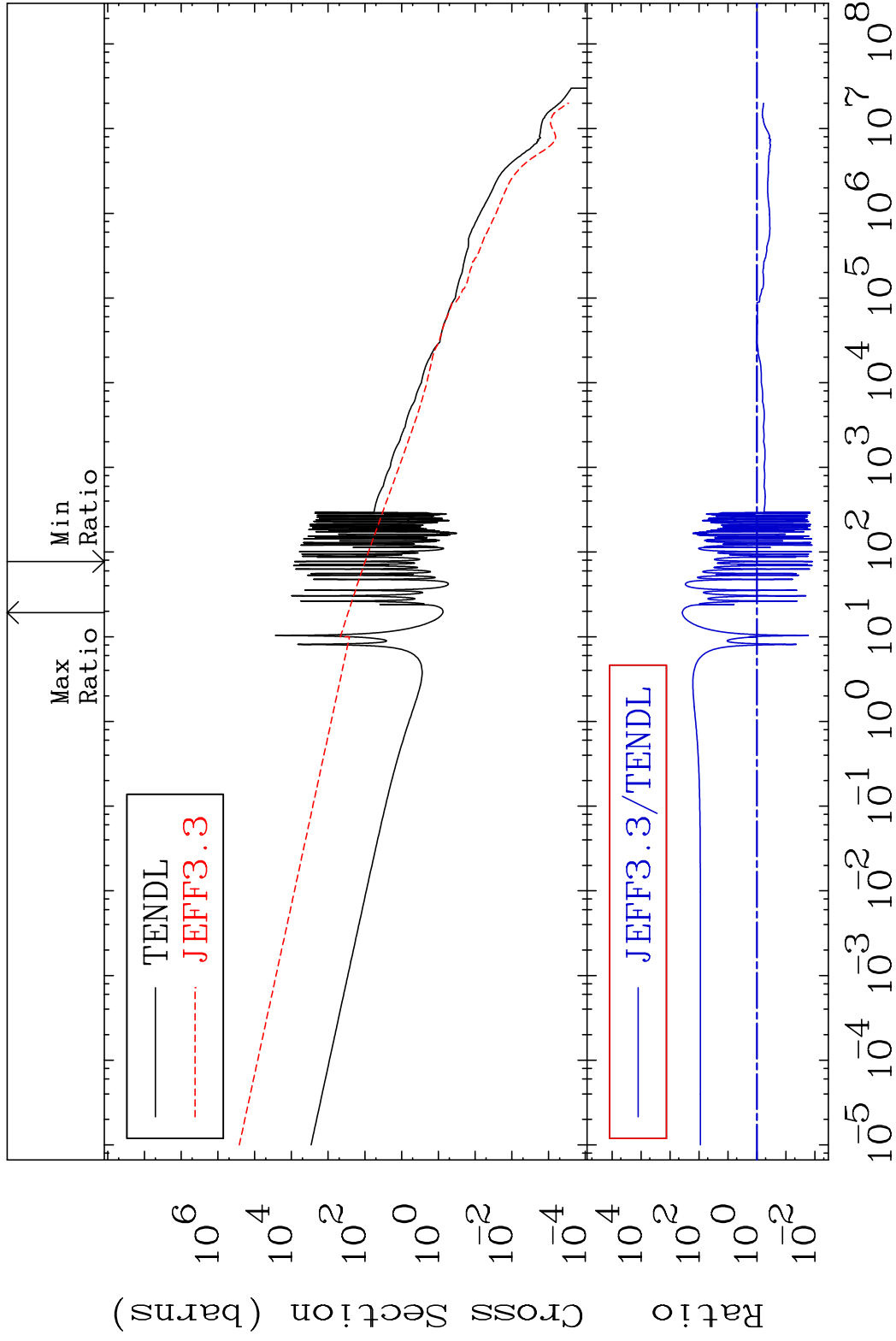
63-Eu-156

MAT 6340

(n, γ)

63-Eu-156

Cross Section -98.79 To 9999. %



39

Incident Energy (eV)

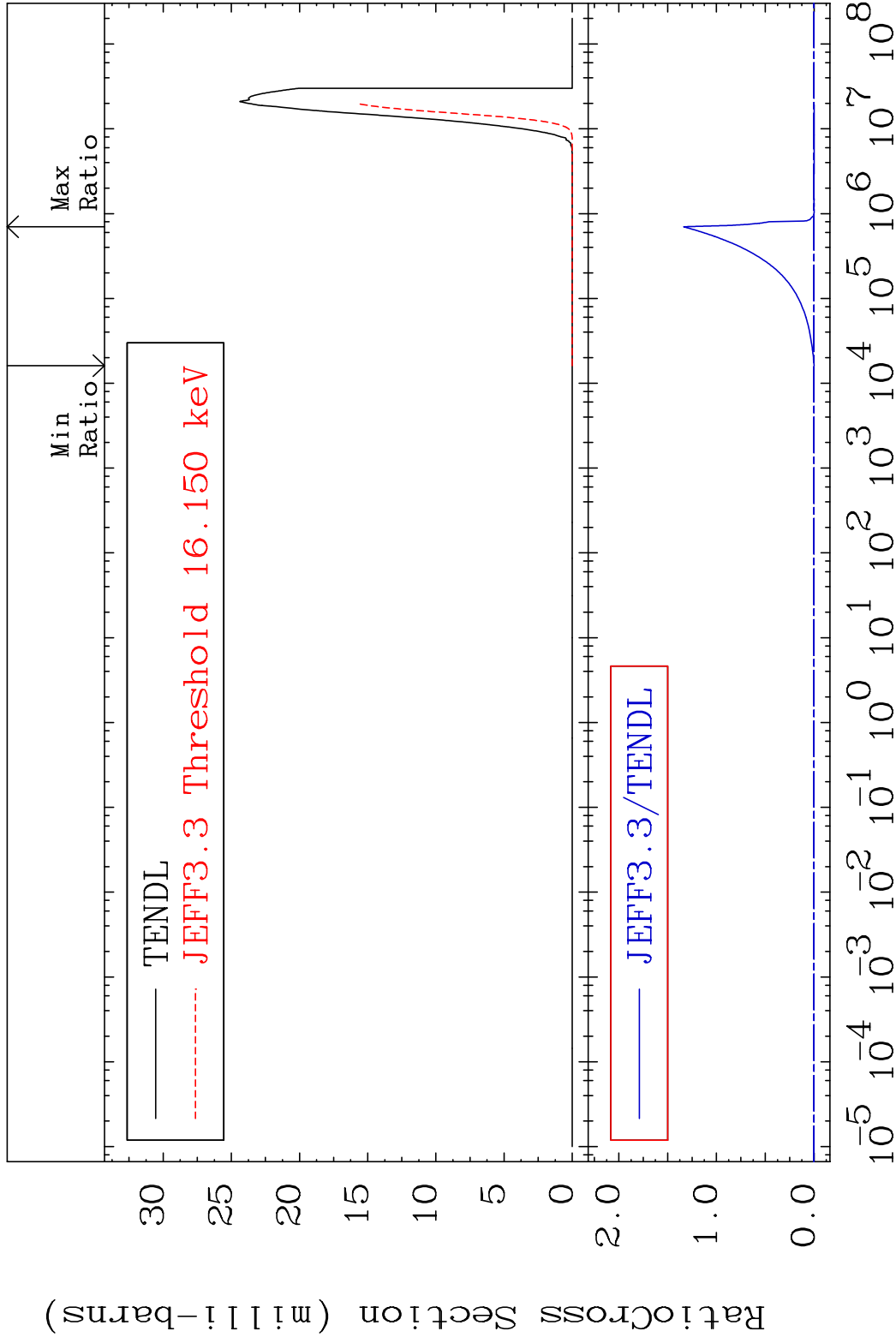
63-Eu-156

MAT 6340

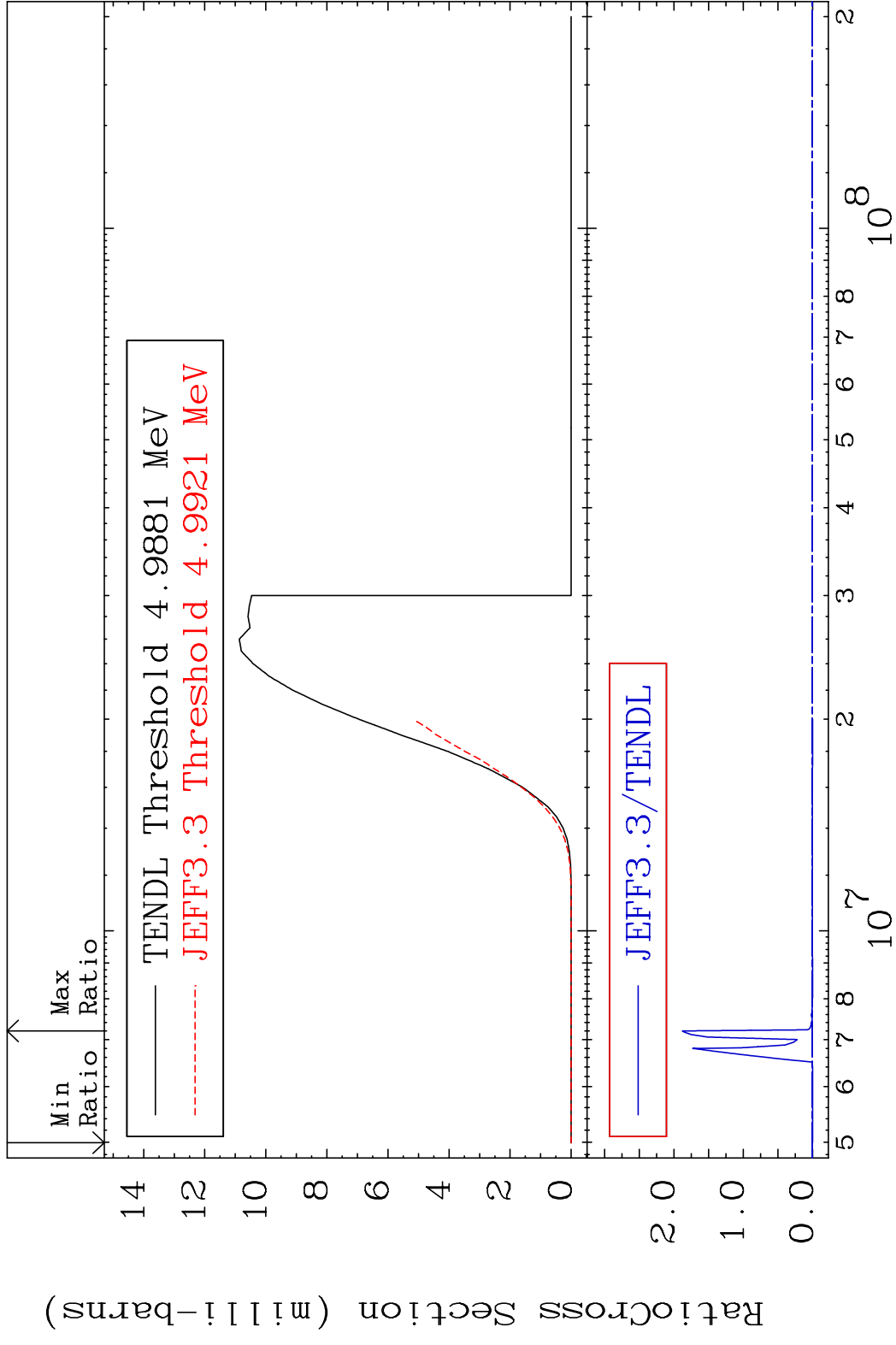
(n, p)

63-Eu-156

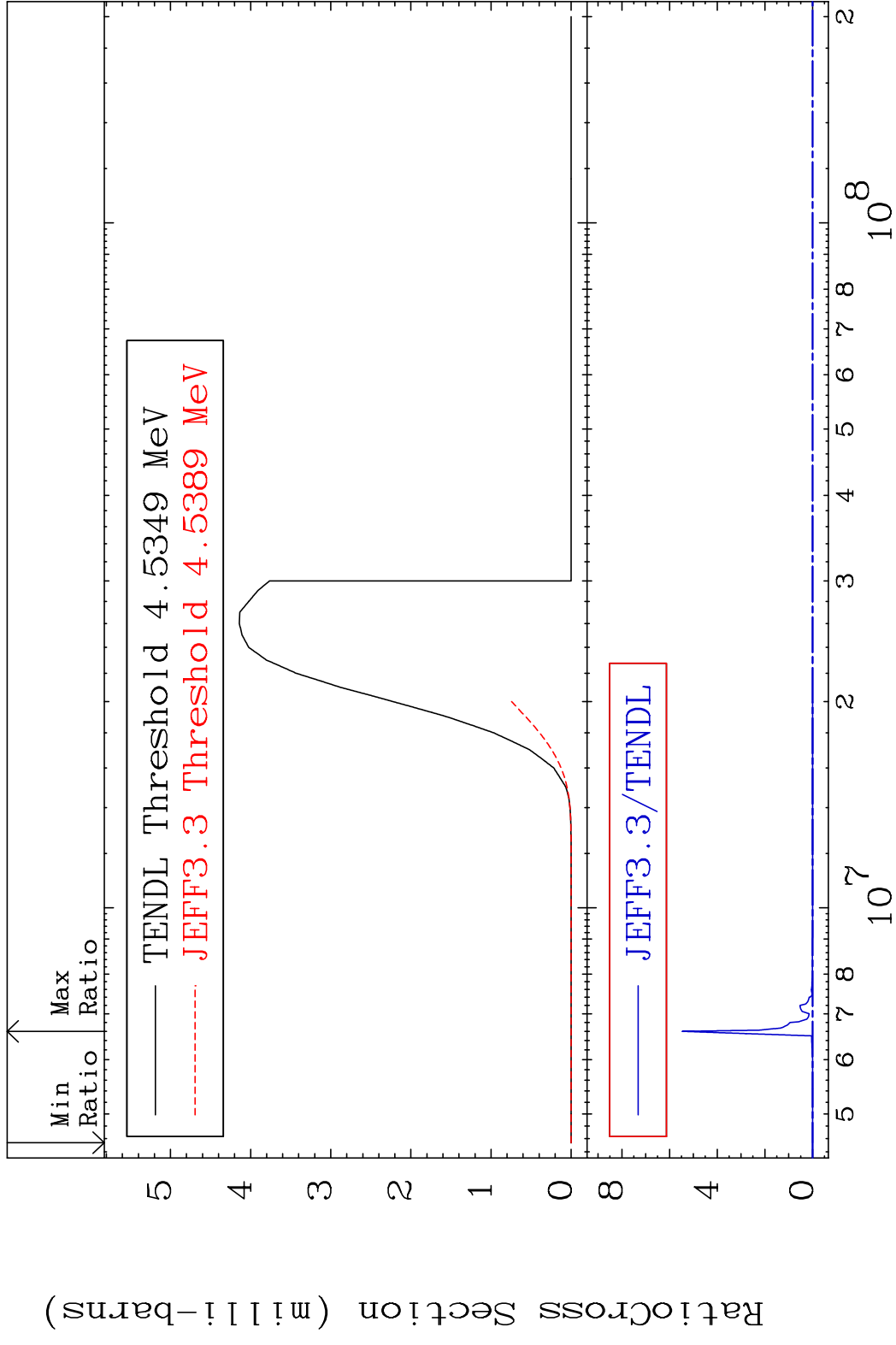
Cross Section -100.0 To 9999. %



MAT 6340 (n,d) 63-Eu-156
 Cross Section -100.0 To 9999. %



MAT 6340 (n, t) 63-Eu-156
 Cross Section -100.0 To 9999. %

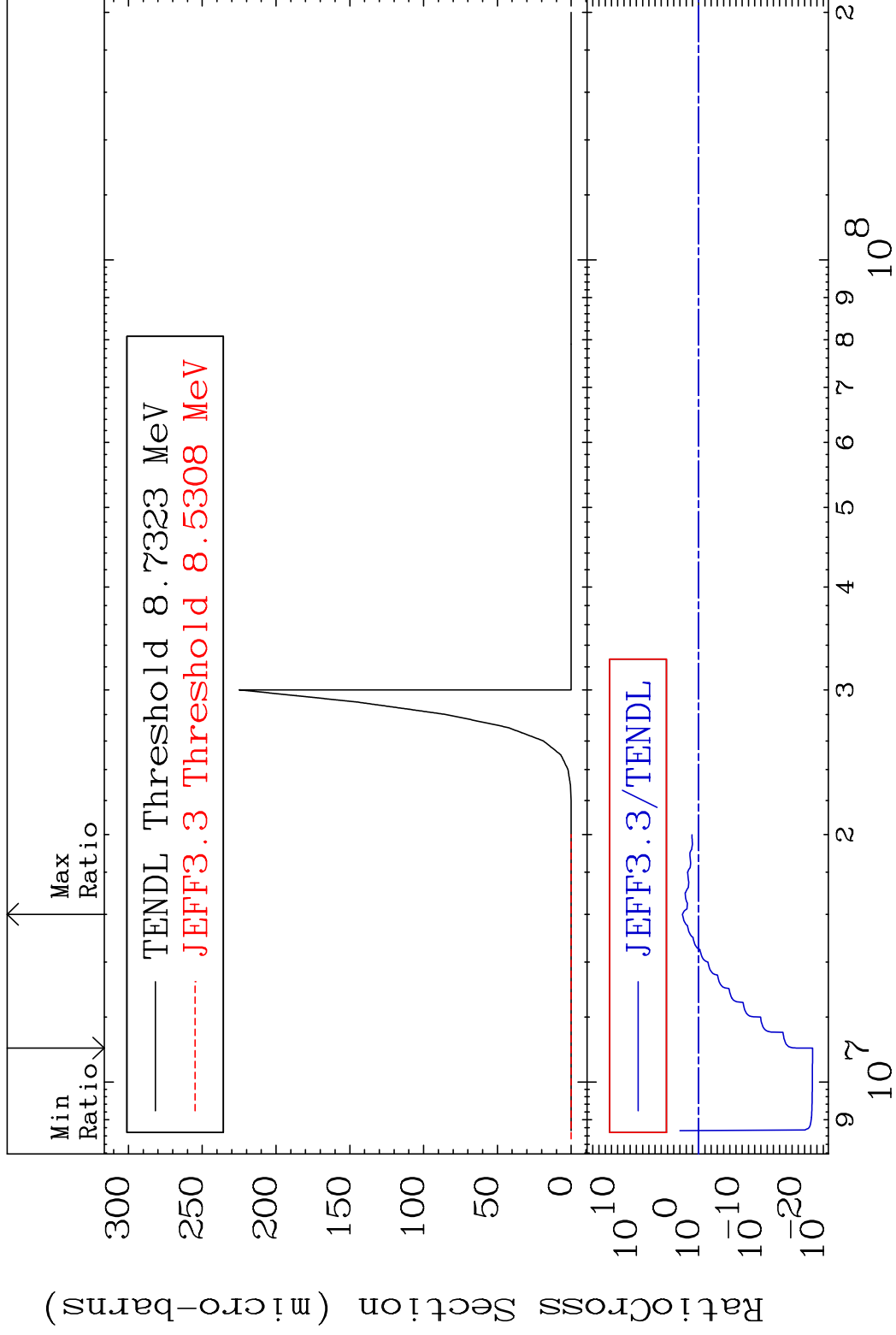


MAT 6340

(n, He-3)

63-Eu-156

Cross Section -100.0 To 9999. %



43

Incident Energy (eV)

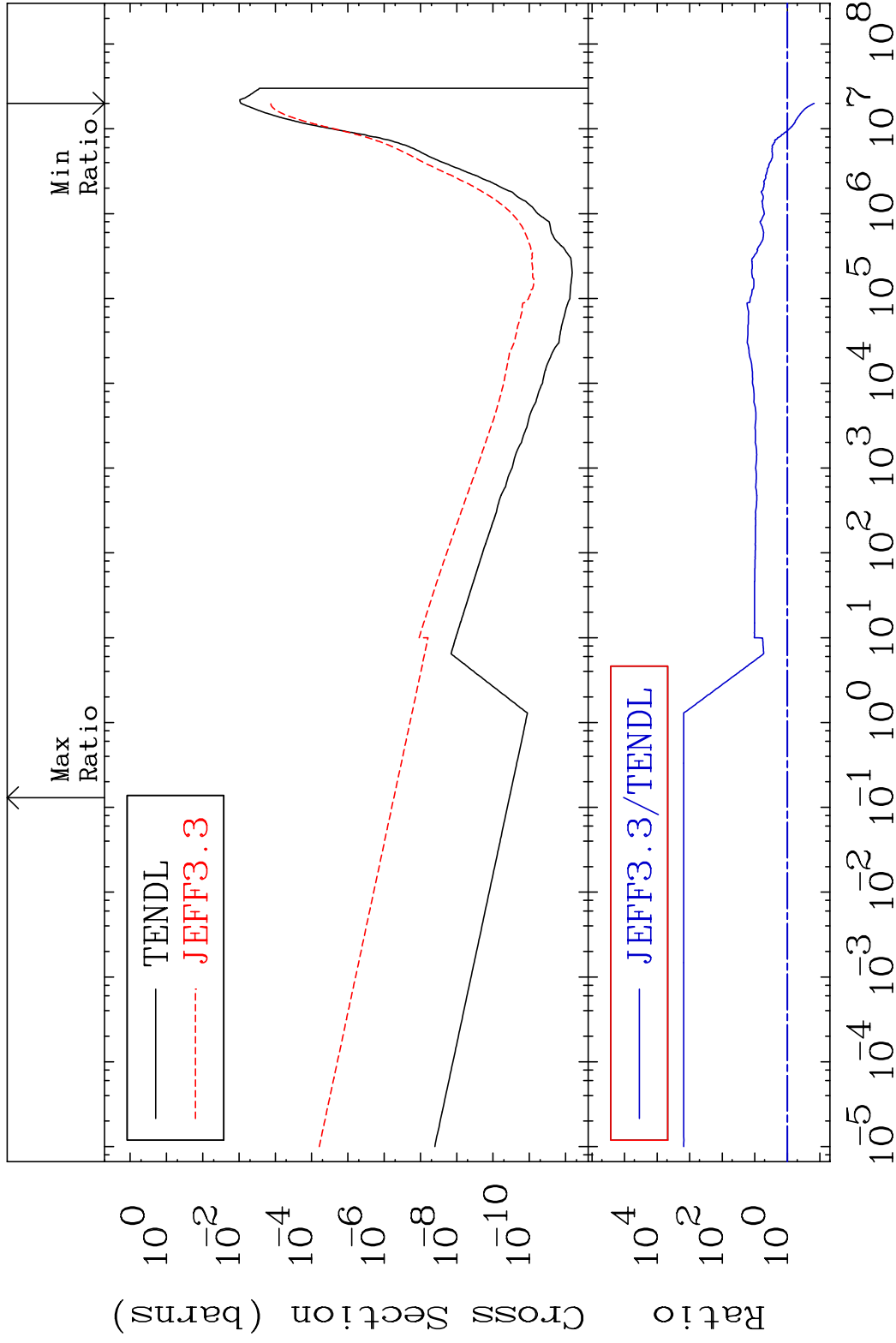
63-Eu-156

MAT 6340

(n, α)

63-Eu-156

Cross Section -84.91 To 9999. %

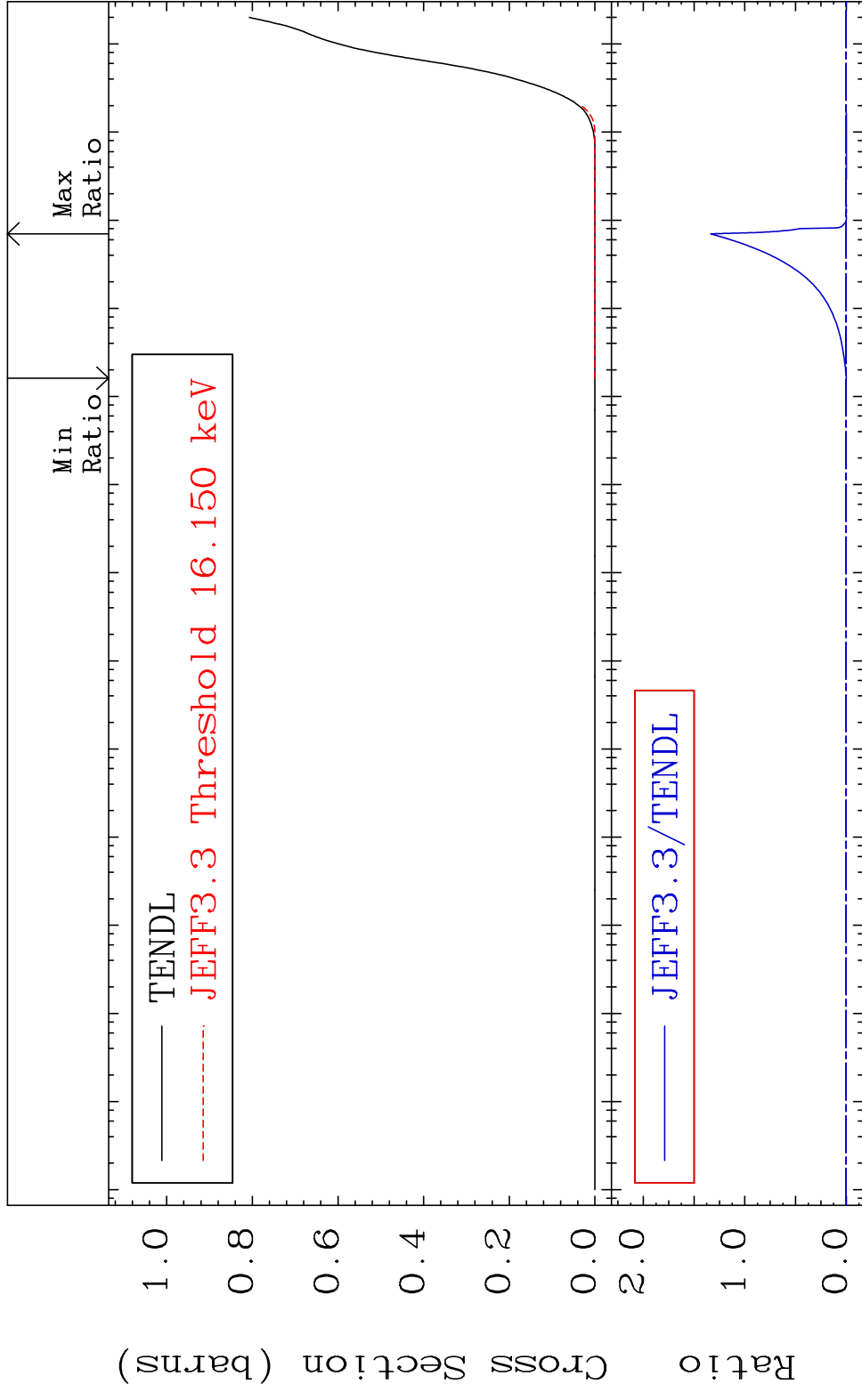


MAT 6340

Hydrogen Production
Cross Section

63-Eu-156

-100.0 To 9999. %



45

Incident Energy (eV)

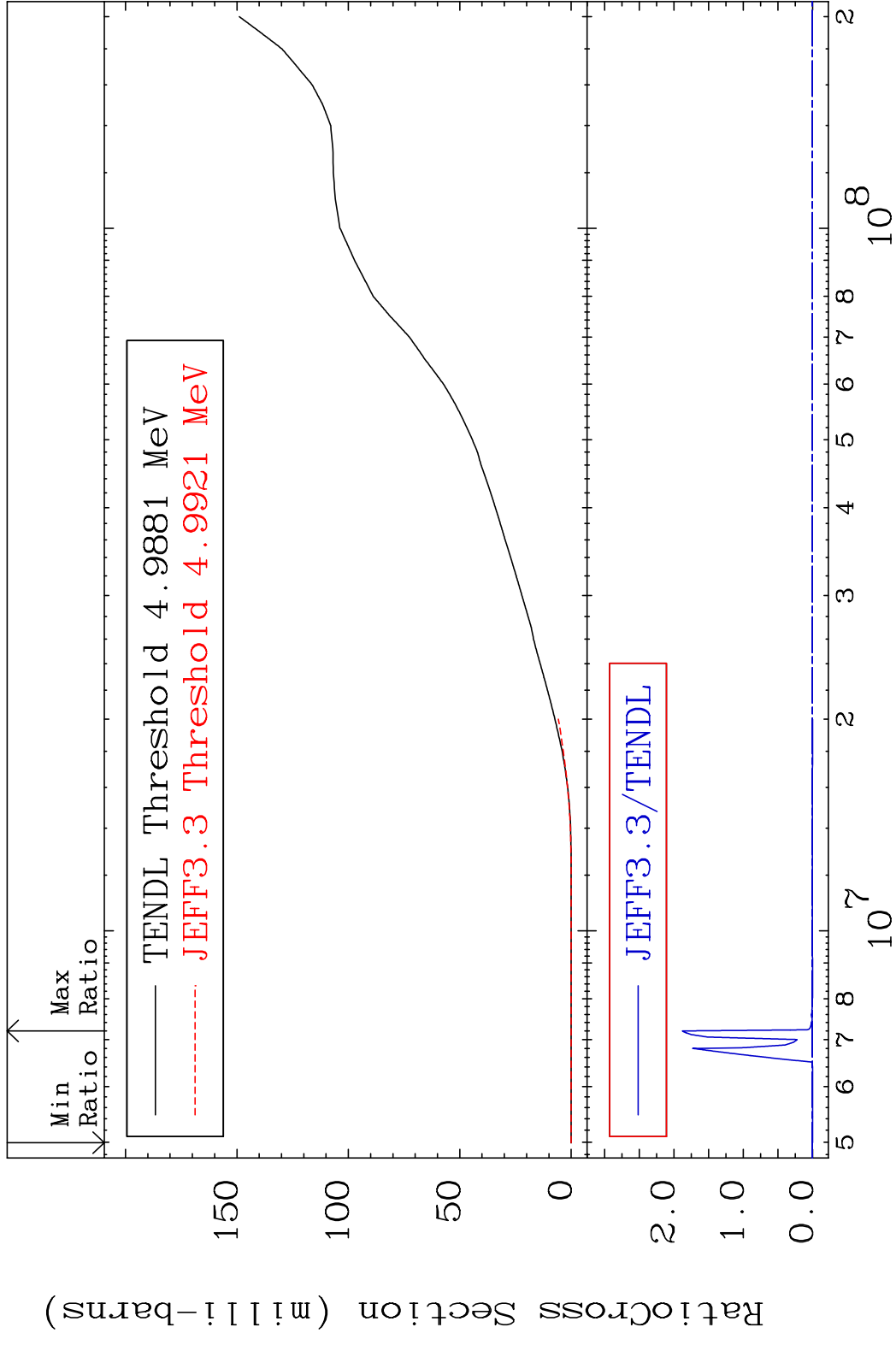
63-Eu-156

MAT 6340

Deuterium Production

63-Eu-156

Cross Section -100.0 To 9999. %

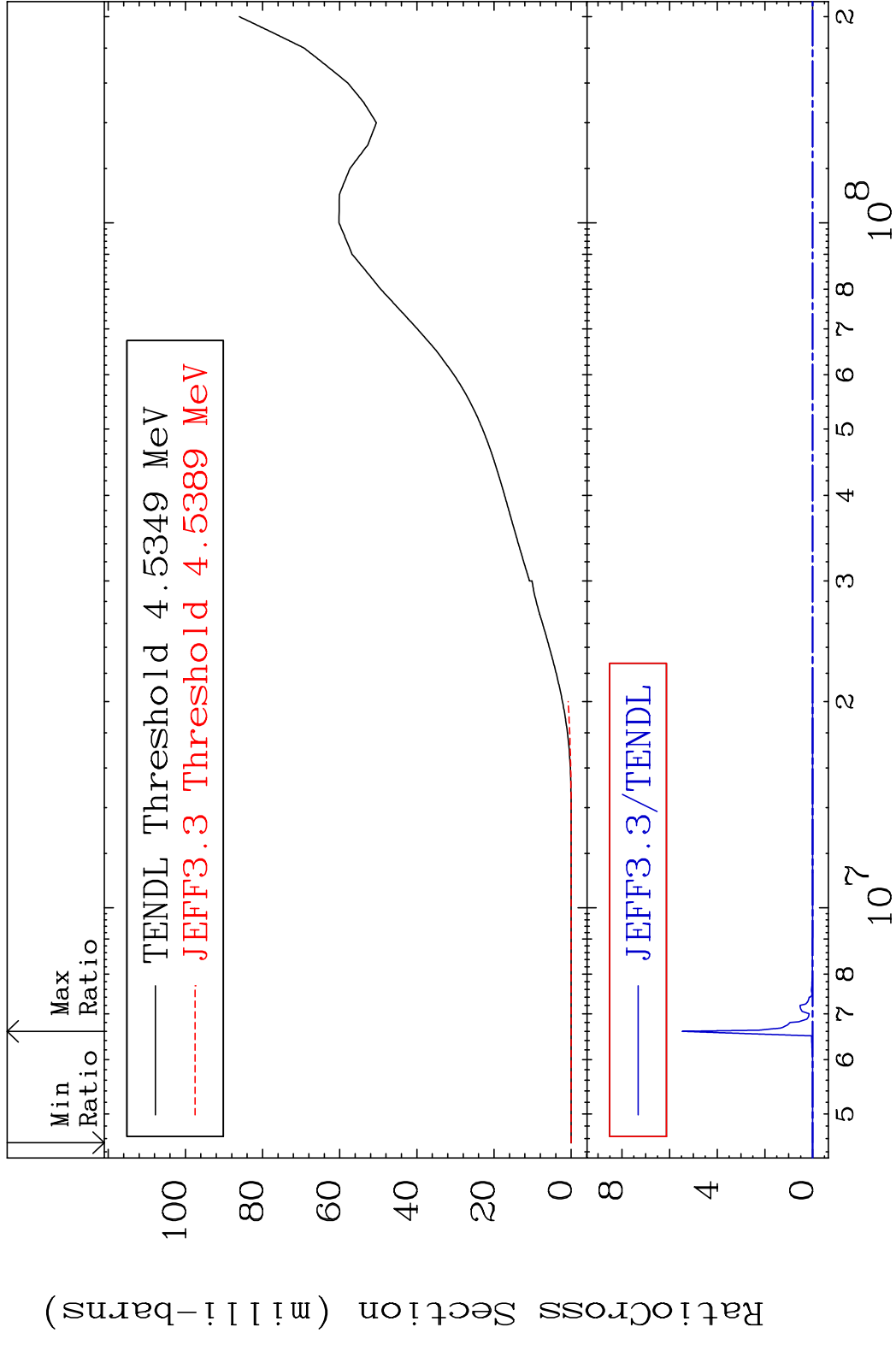


46

Incident Energy (eV)

63-Eu-156

MAT 6340 Tritium Production 63-Eu-156
 Cross Section -100.0 To 9999. %

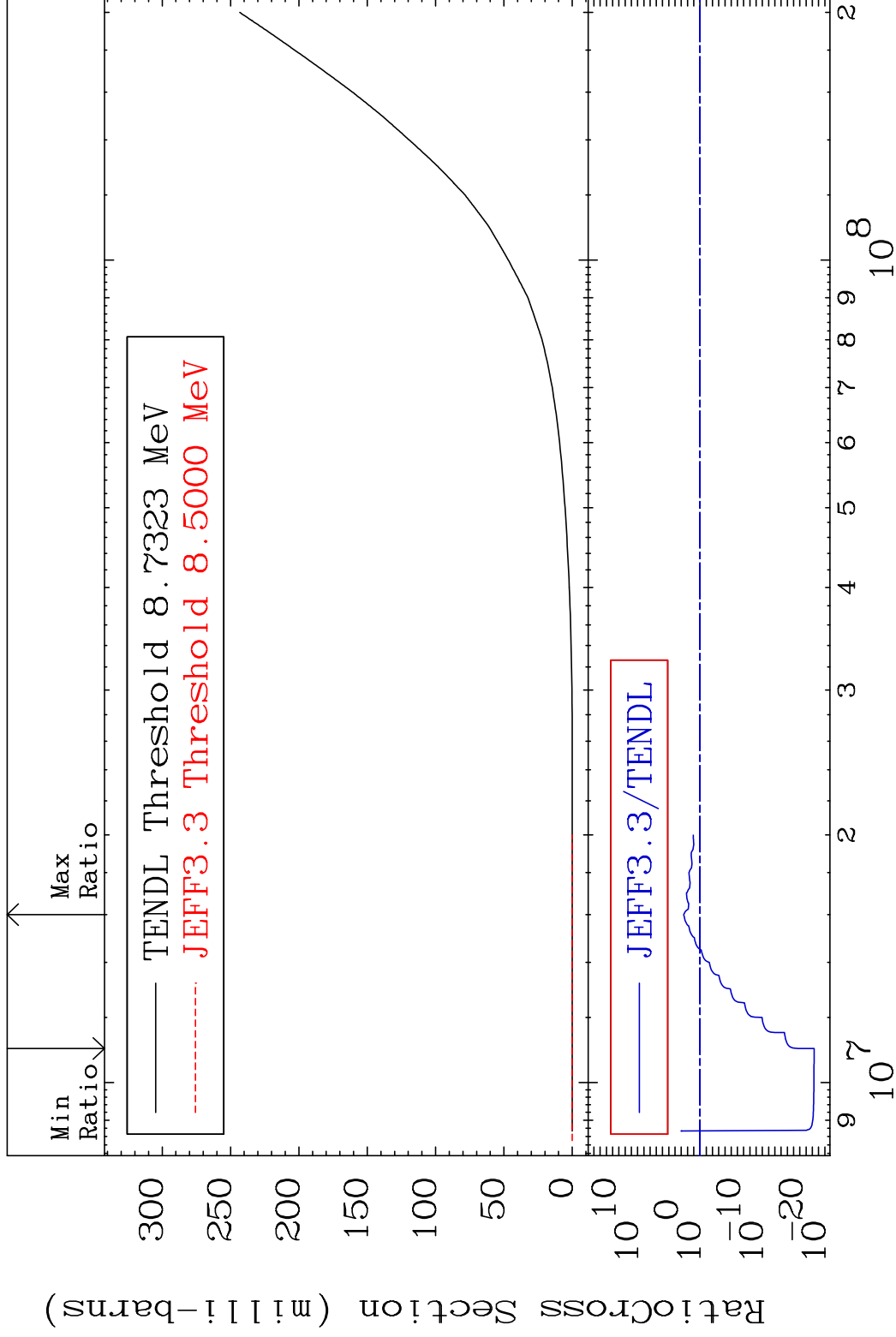


MAT 6340

He-3 Production

63-Eu-156

Cross Section -100.0 To 9999. %



48

Incident Energy (eV)

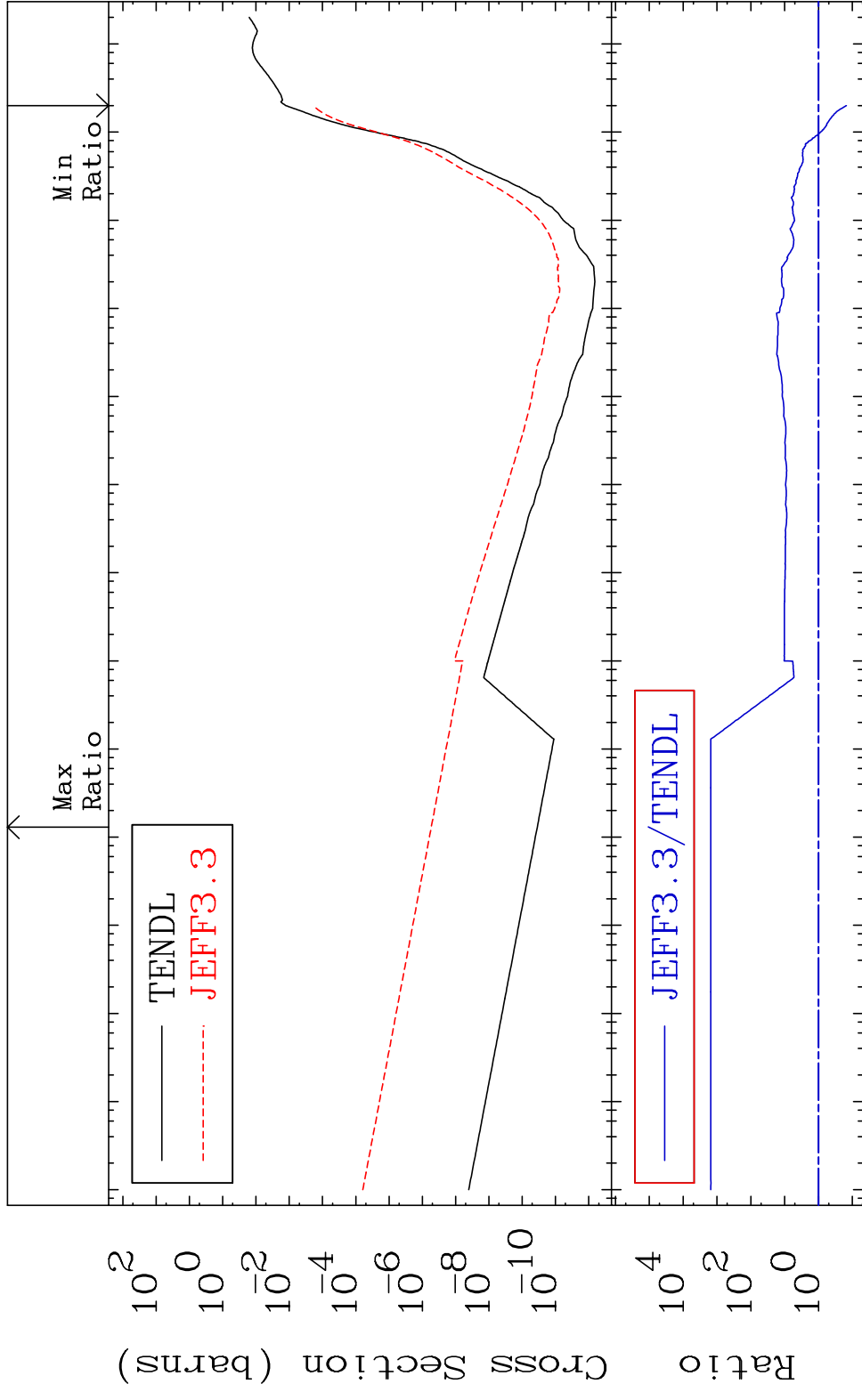
63-Eu-156

MAT 6340

He-4 Production

63-Eu-156

Cross Section -84.90 To 9999. %

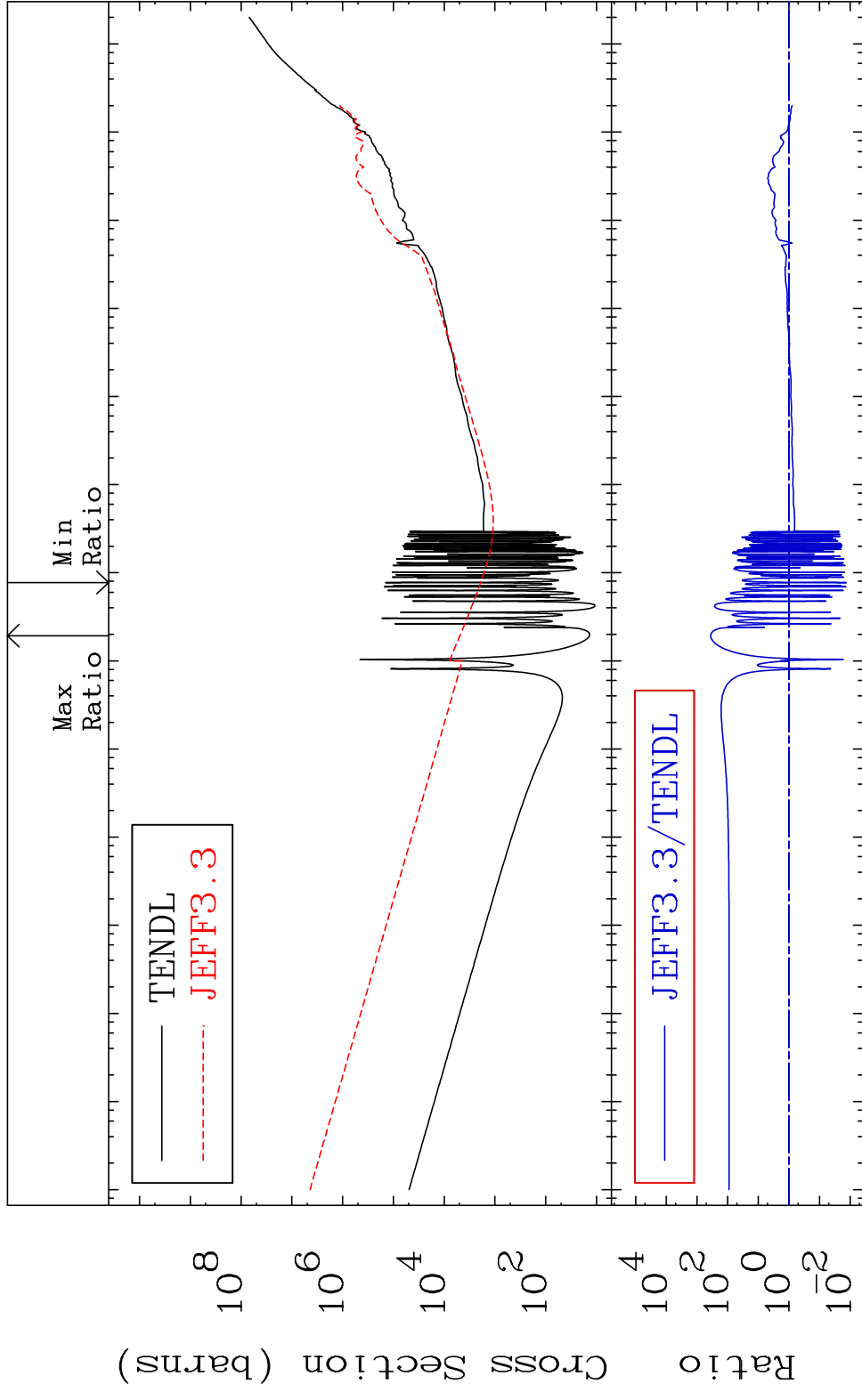


Ratio
 10^4
 10^2
 10^0

Cross Section (barns)
 10^2
 10^0
 10^{-2}
 10^{-4}
 10^{-6}
 10^{-8}
 10^{-10}

Incident Energy (eV)
 10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8

MAT 6340 Kerma total (eV-barns) 63-Eu-156
 Cross Section -98.67 To 9999. %



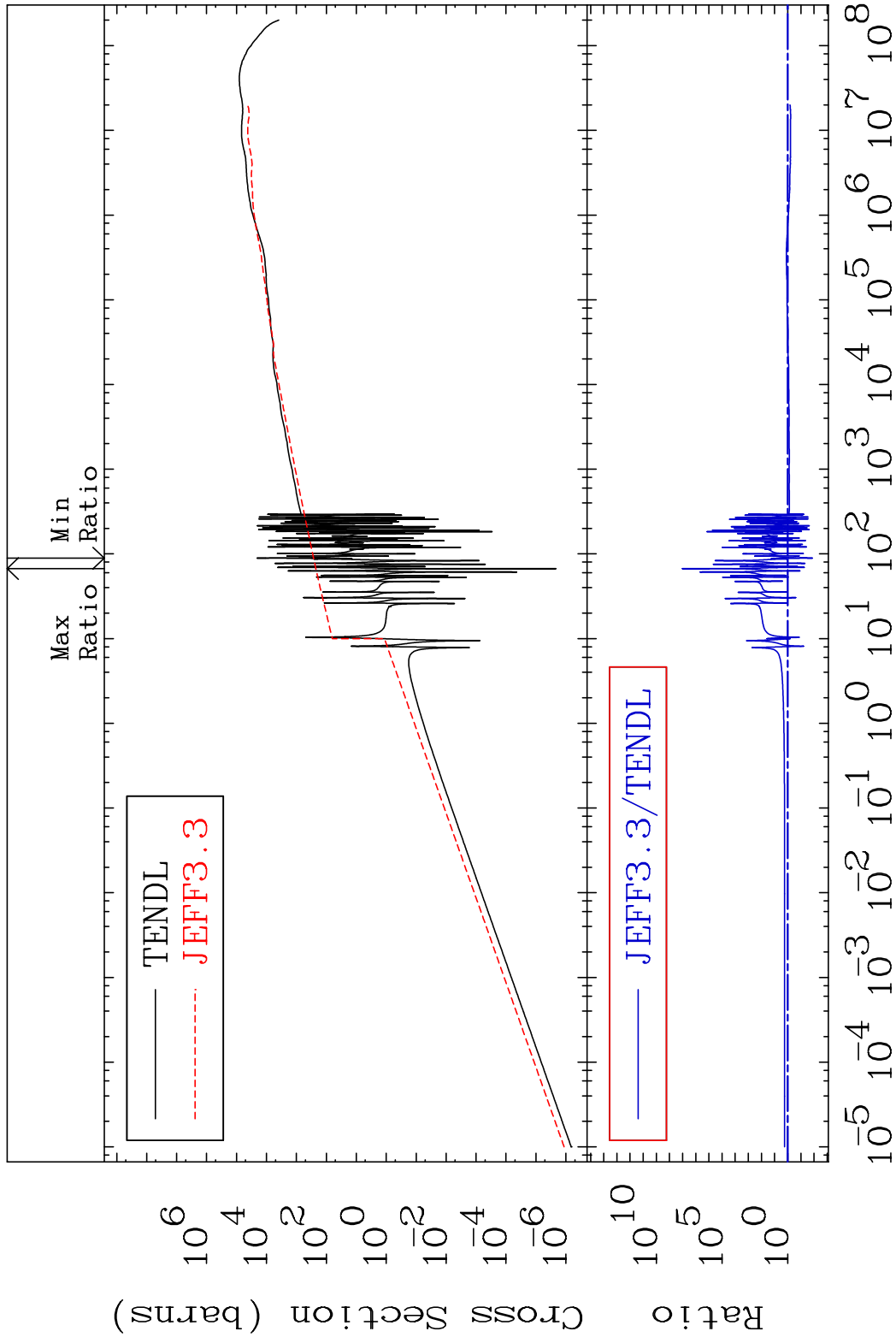
50 Incident Energy (eV) 63-Eu-156

MAT 6340

Kerma elastic

63-Eu-156

Cross Section -98.70 To 9999. %

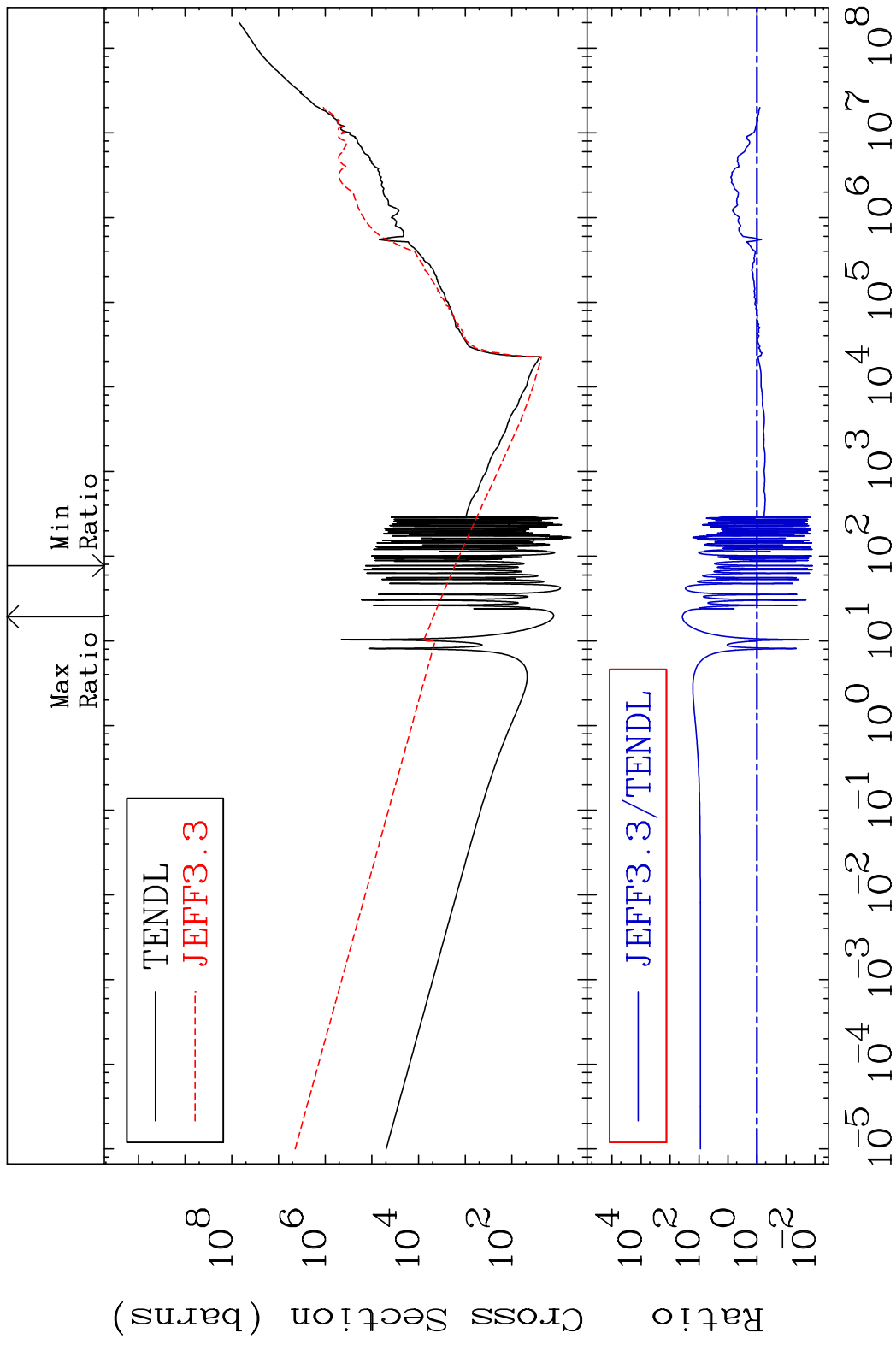


51

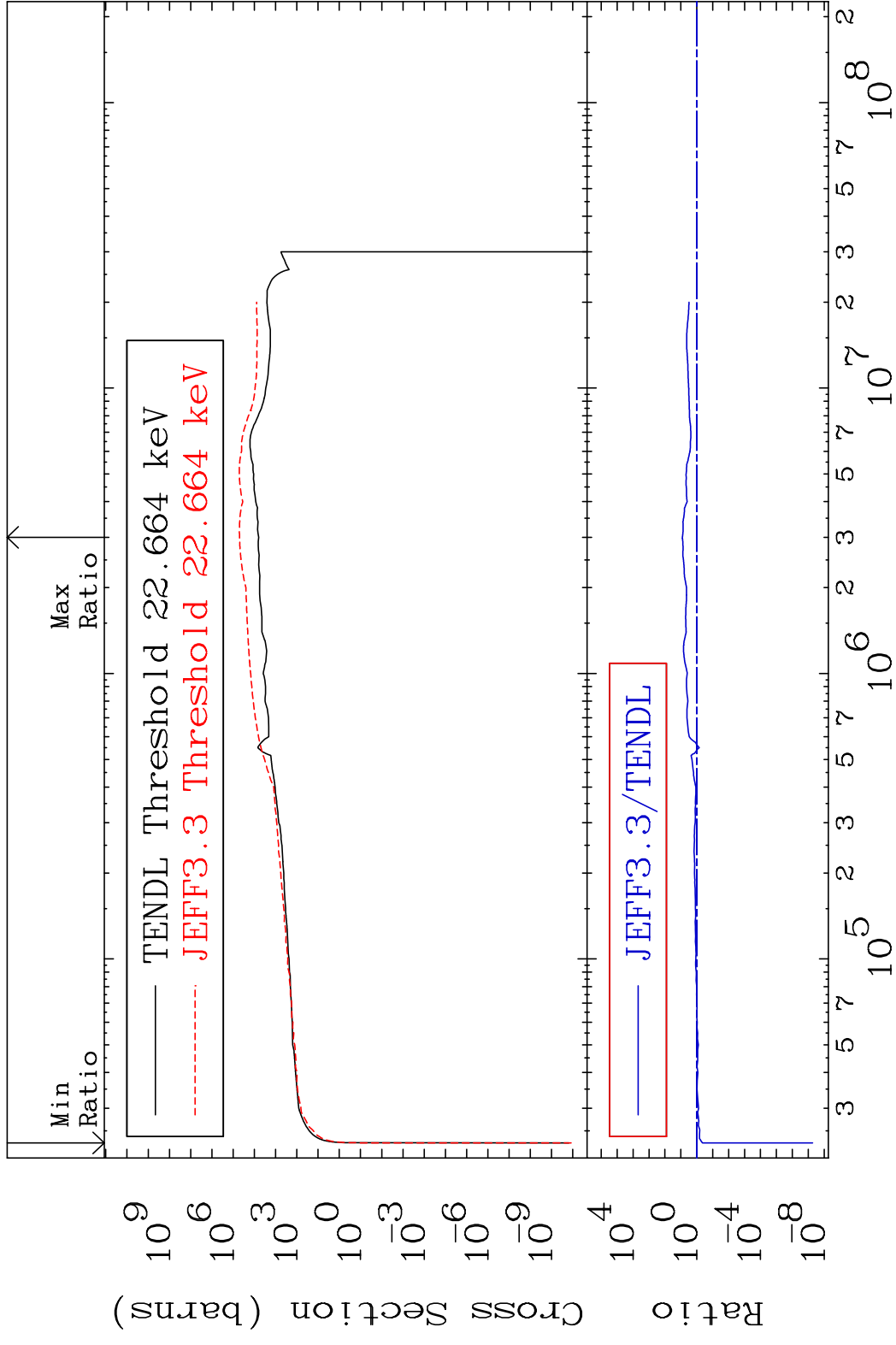
Incident Energy (eV)

63-Eu-156

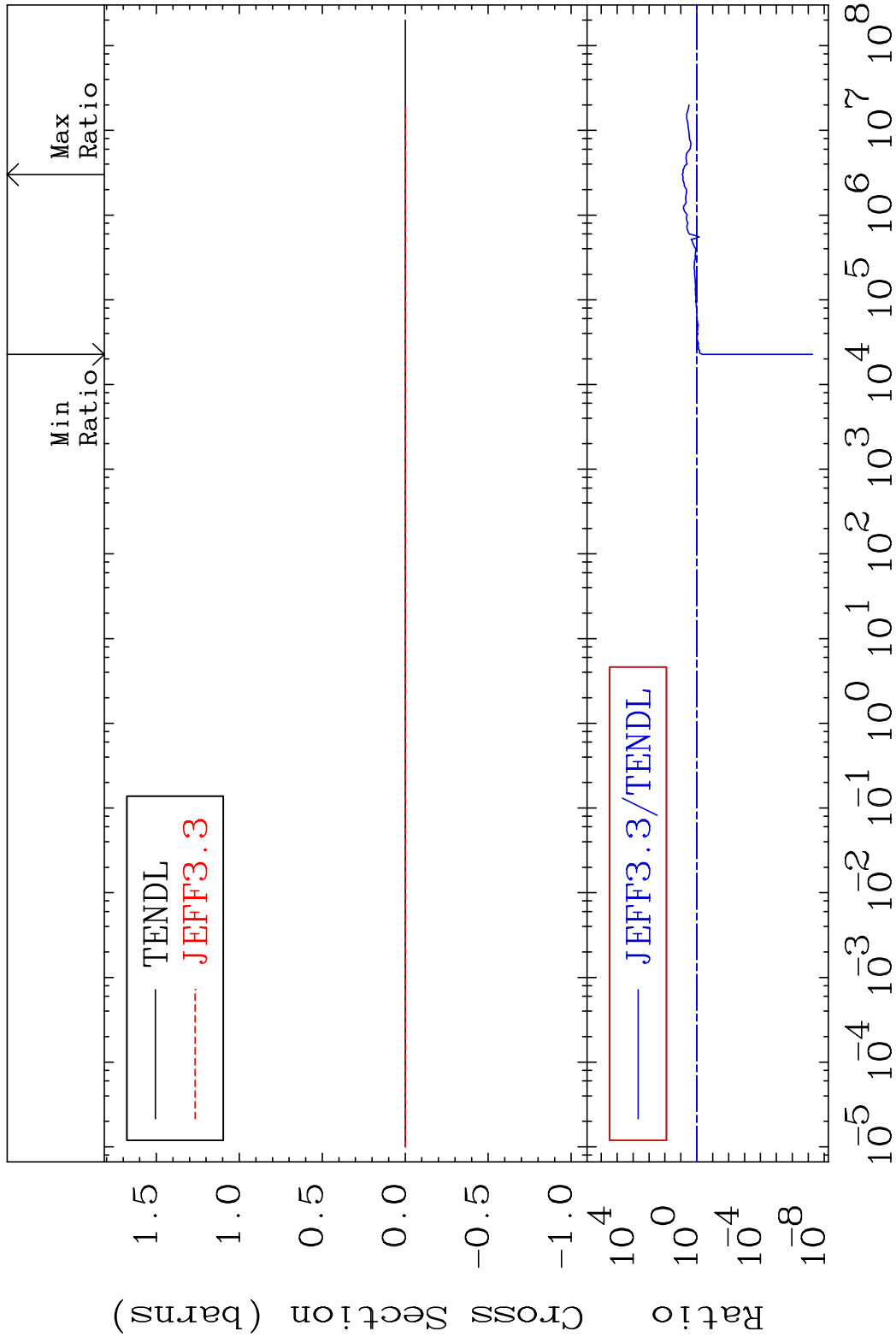
MAT 6340 Kerma non-elastic (all but mt2) 63-Eu-156
 Cross Section -98.80 To 9999. %



MAT 6340 Kerma inelastic (mt51-91) 63-Eu-156
 Cross Section -100.0 To 704.1 %

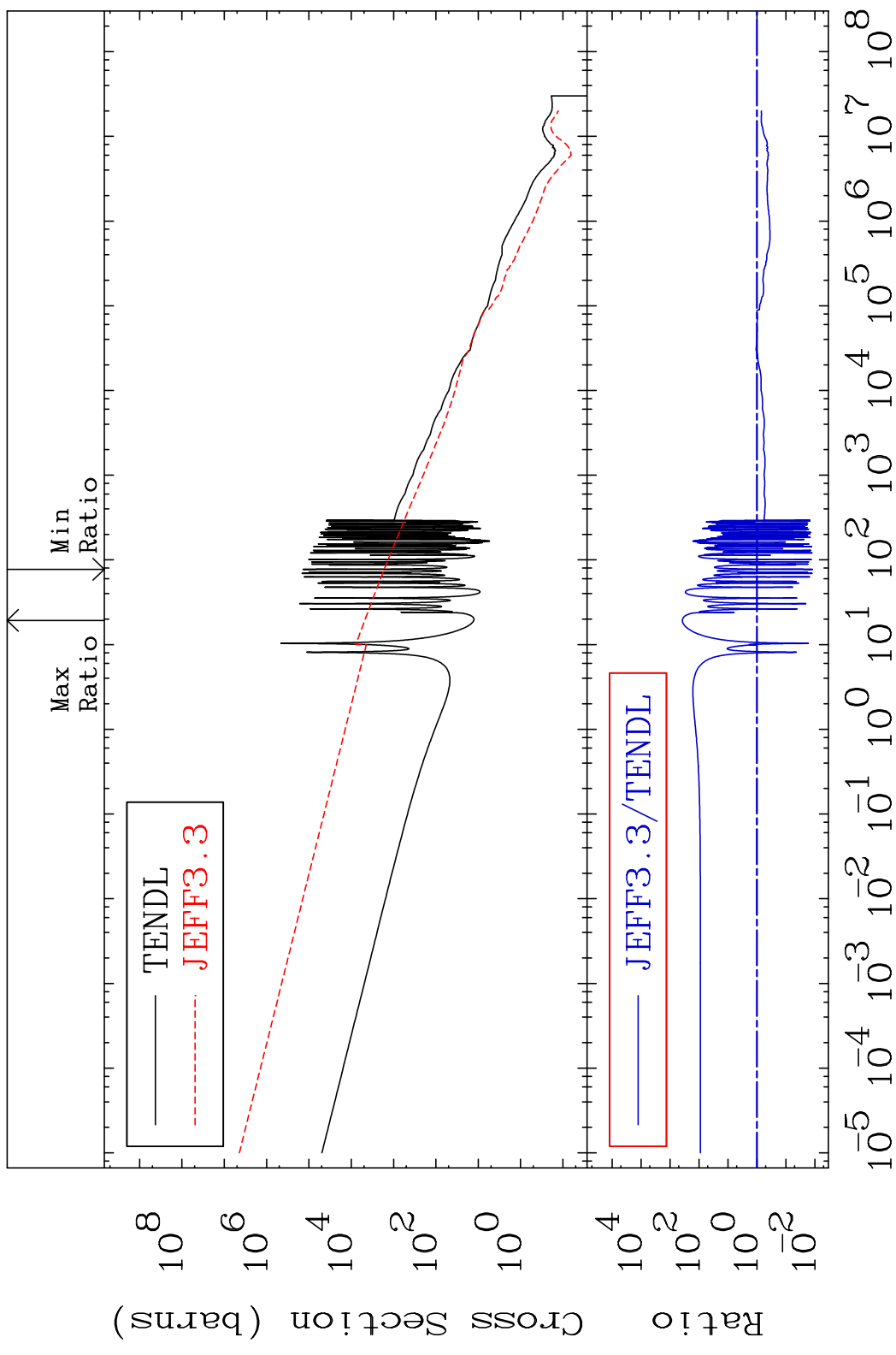


MAT 6340 Kerma fission (mt18 or mt19-20-21-38) 63-Eu-156
 Cross Section -100.0 To 704.1 %



MAT 6340

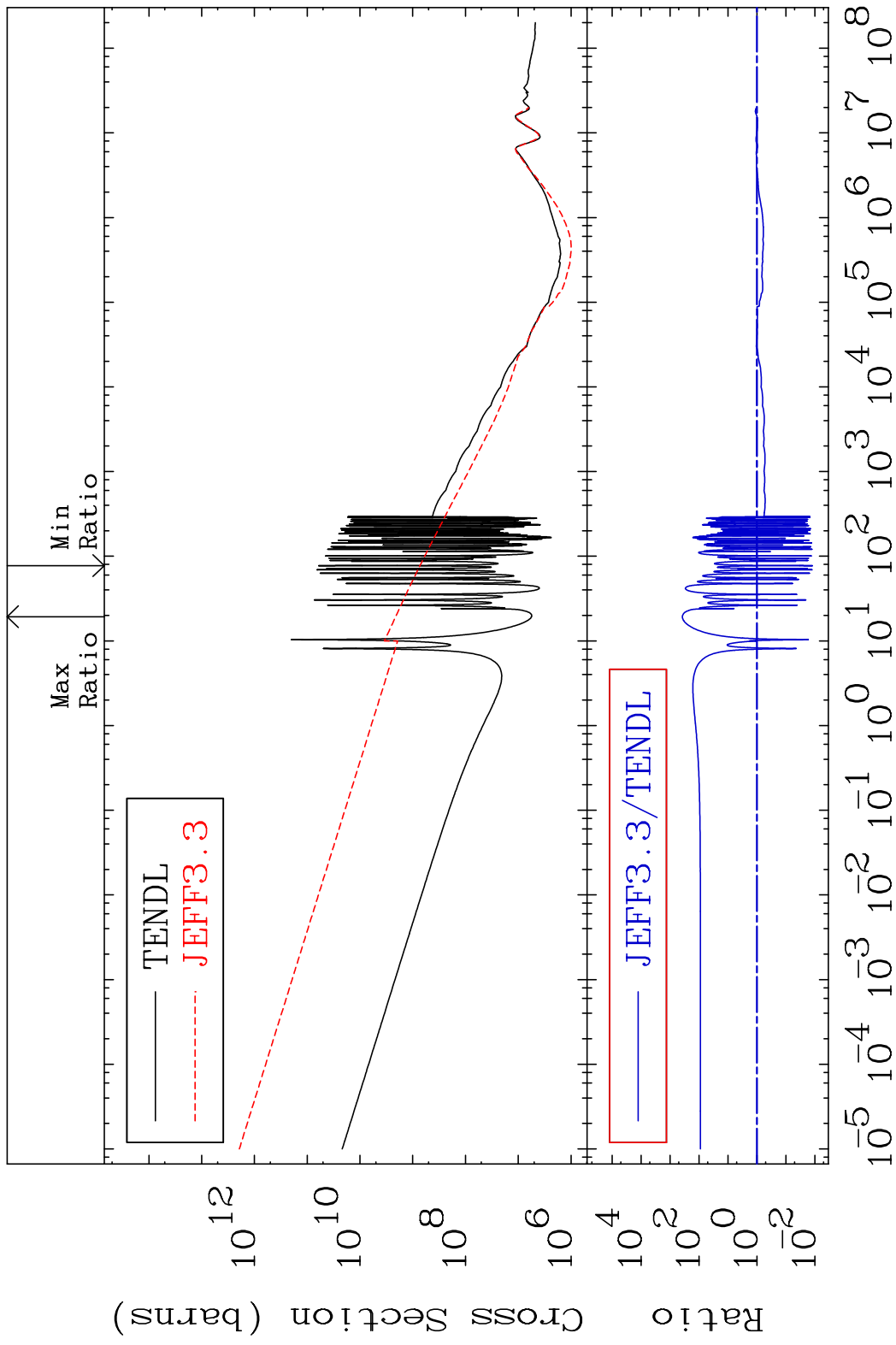
Kerma capture (mt102) 63-Eu-156
Cross Section -98.80 To 9999. %



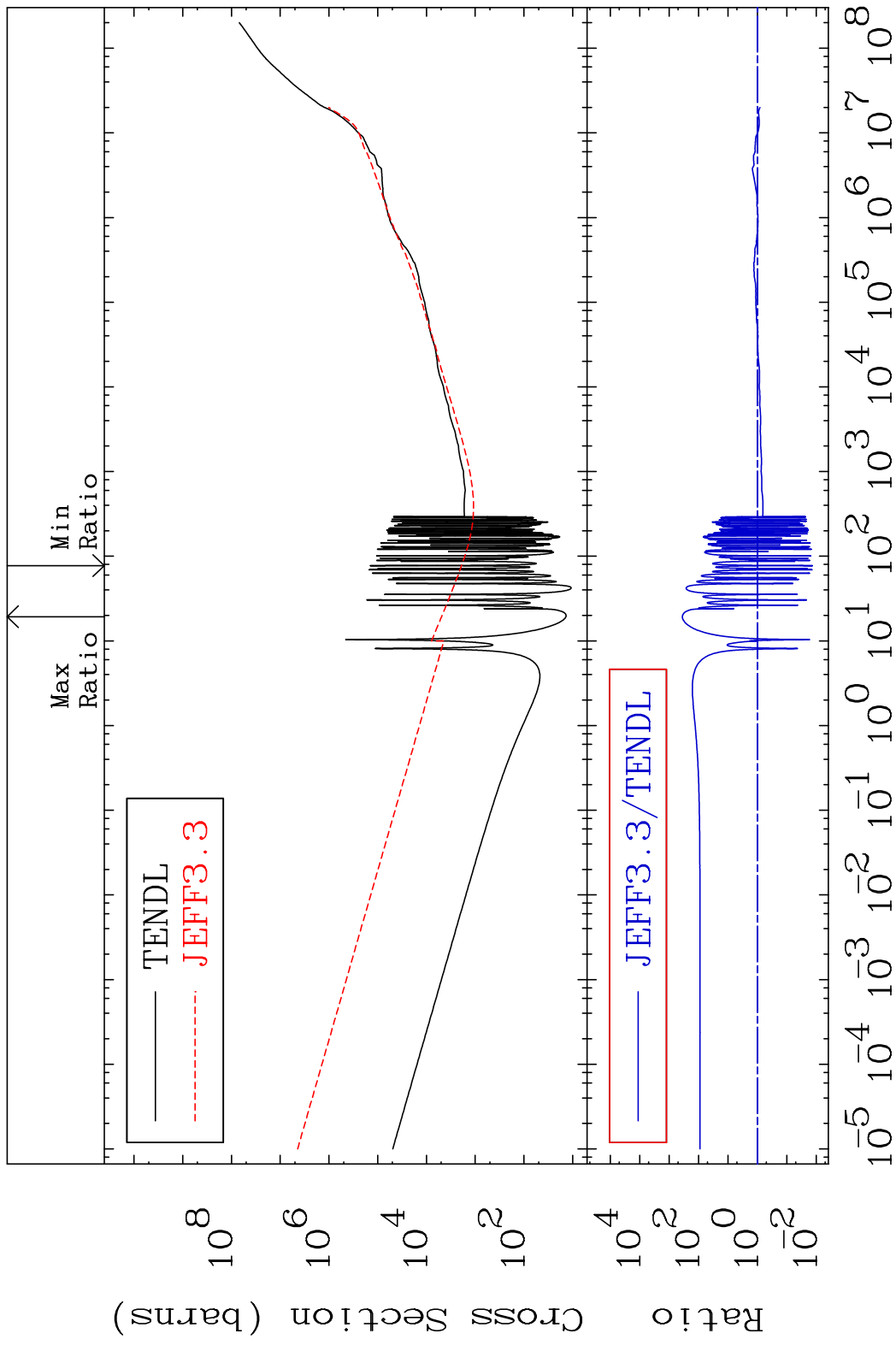
55

Incident Energy (eV) 63-Eu-156

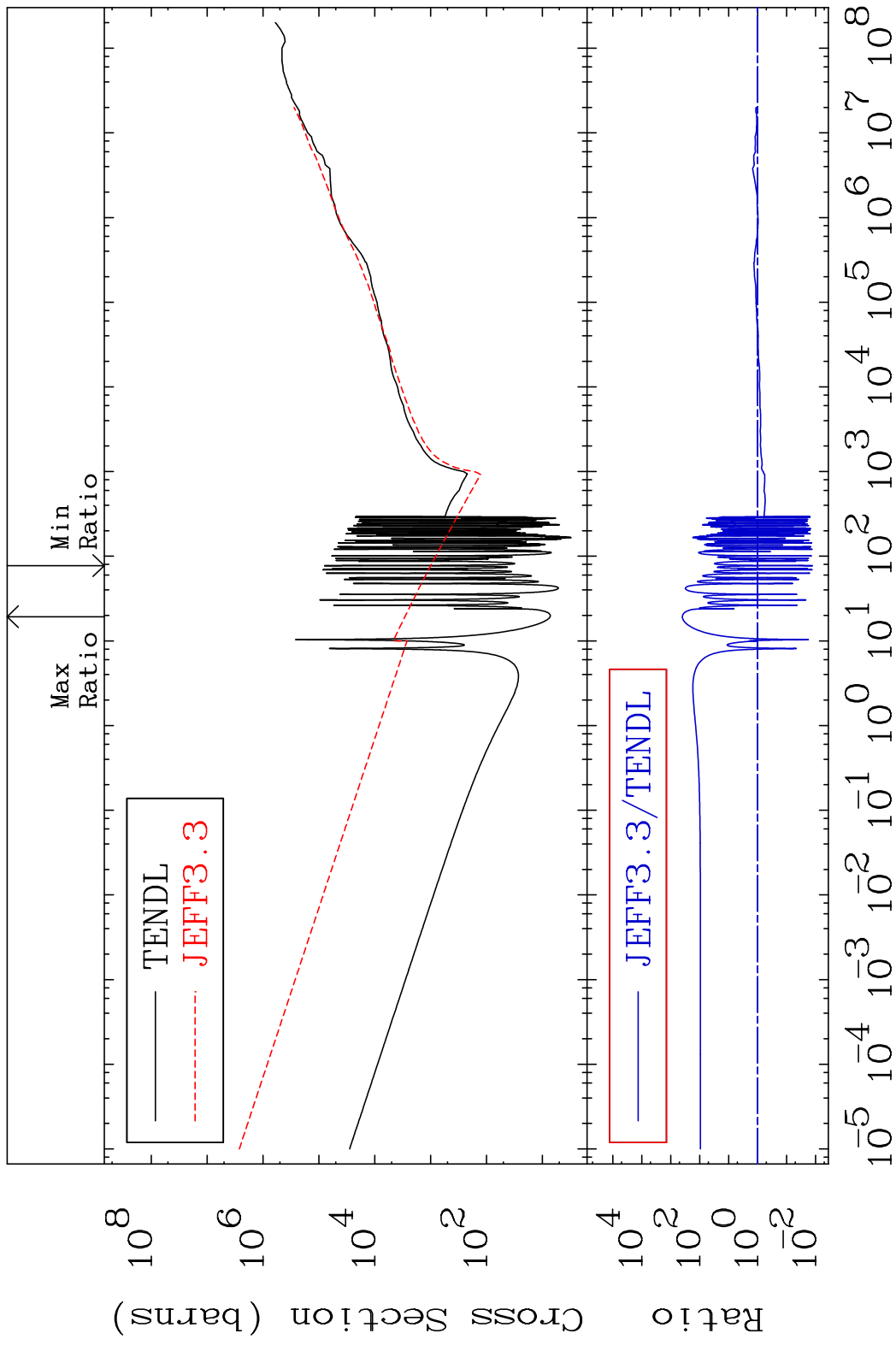
MAT 6340 Total photon (eV-barns) 63-Eu-156
 Cross Section -98.79 To 9999. %



MAT 6340 Total kinematic kerma (high limit) 63-Eu-156
 Cross Section -98.67 To 9999. %



MAT 6340 Dpa total (eV-barns) 63-Eu-156
 Cross Section -98.73 To 9999. %

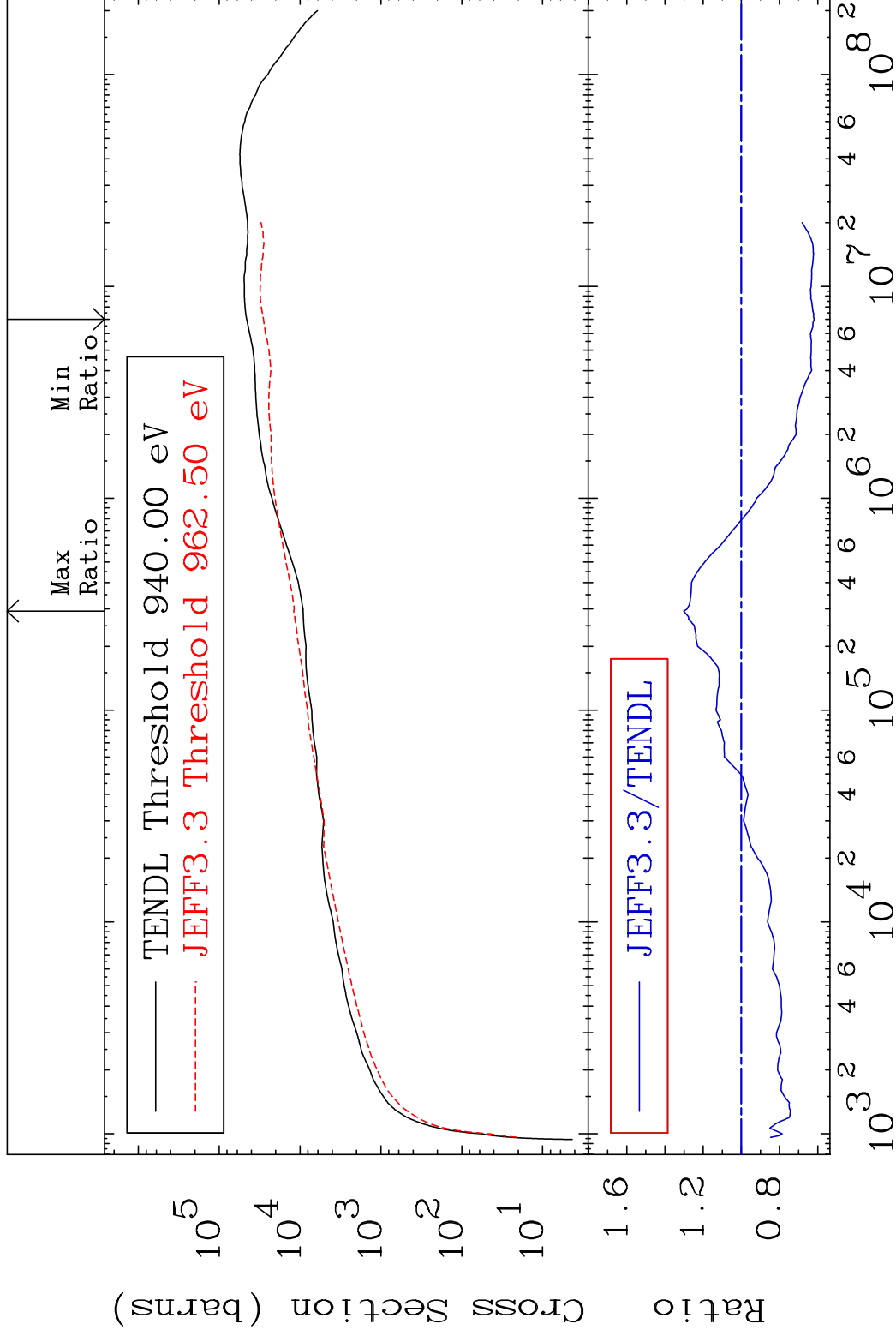


MAT 6340

Dpa elastic (mt2)

63-Eu-156

Cross Section -38.11 To 30.20 %

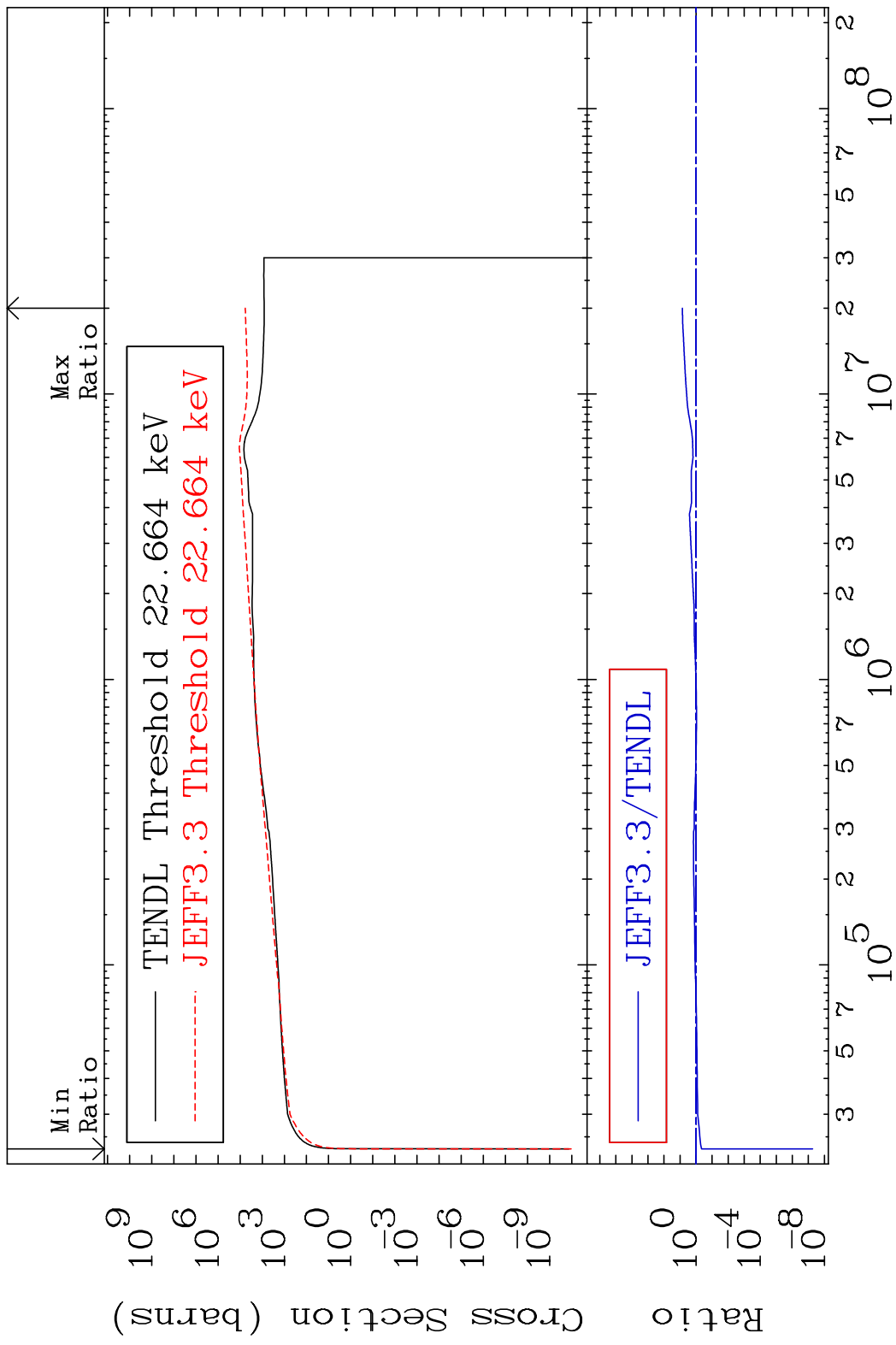


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Incident Energy (eV)

63-Eu-156

MAT 6340 Dpa inelastic (mt51-91) 63-Eu-156
 Cross Section -100.0 To 616.7 %



MAT 6340 Dpa disappearance (mt102 -120) 63-Eu-156
 Cross Section -98.73 To 9999. %

