

Program Complot
(Version 2021-1)

by

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(Present Contact Information)

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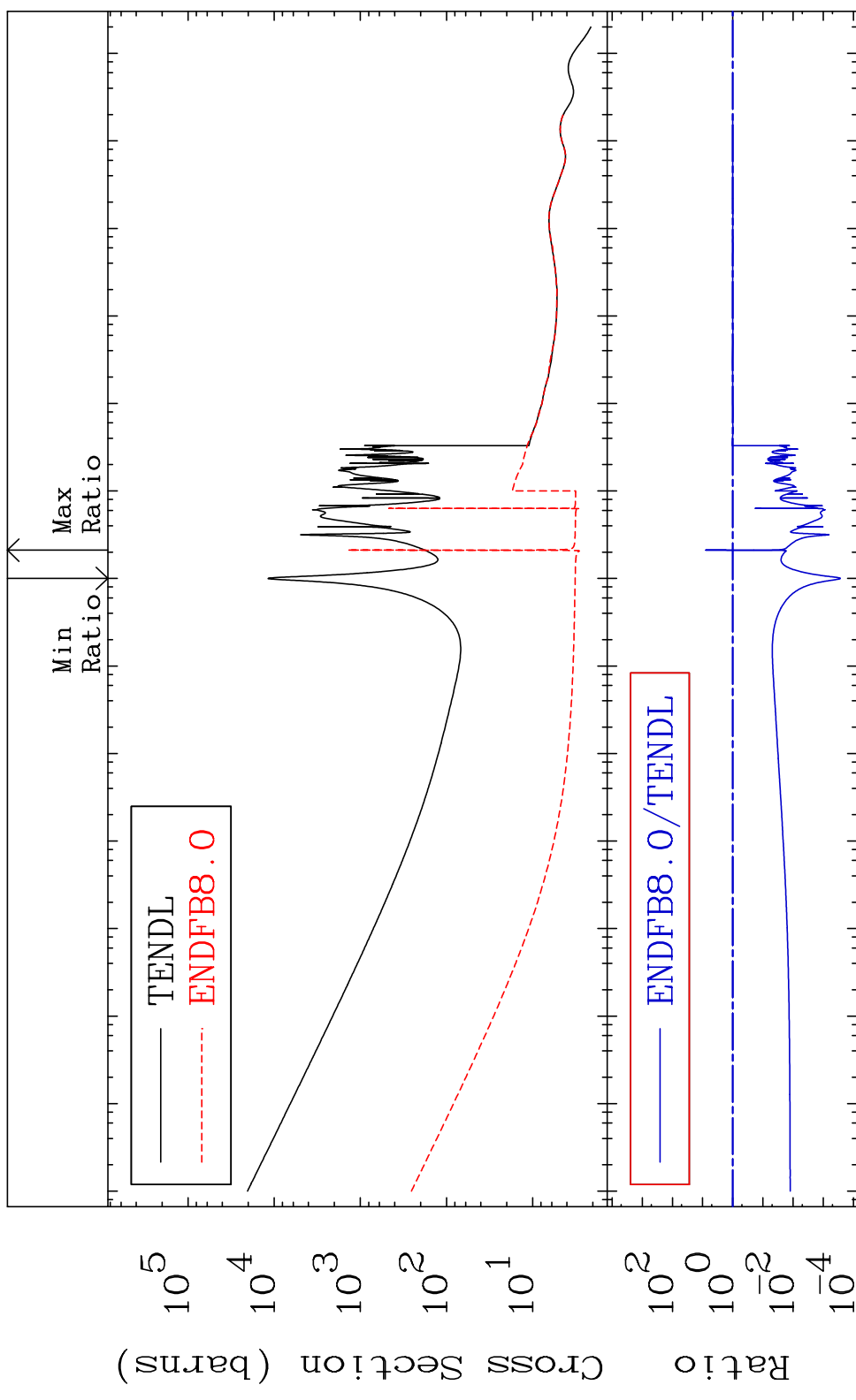
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Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5259

Total Cross Section
52-Te-131m
-99.97 To 686.0 %



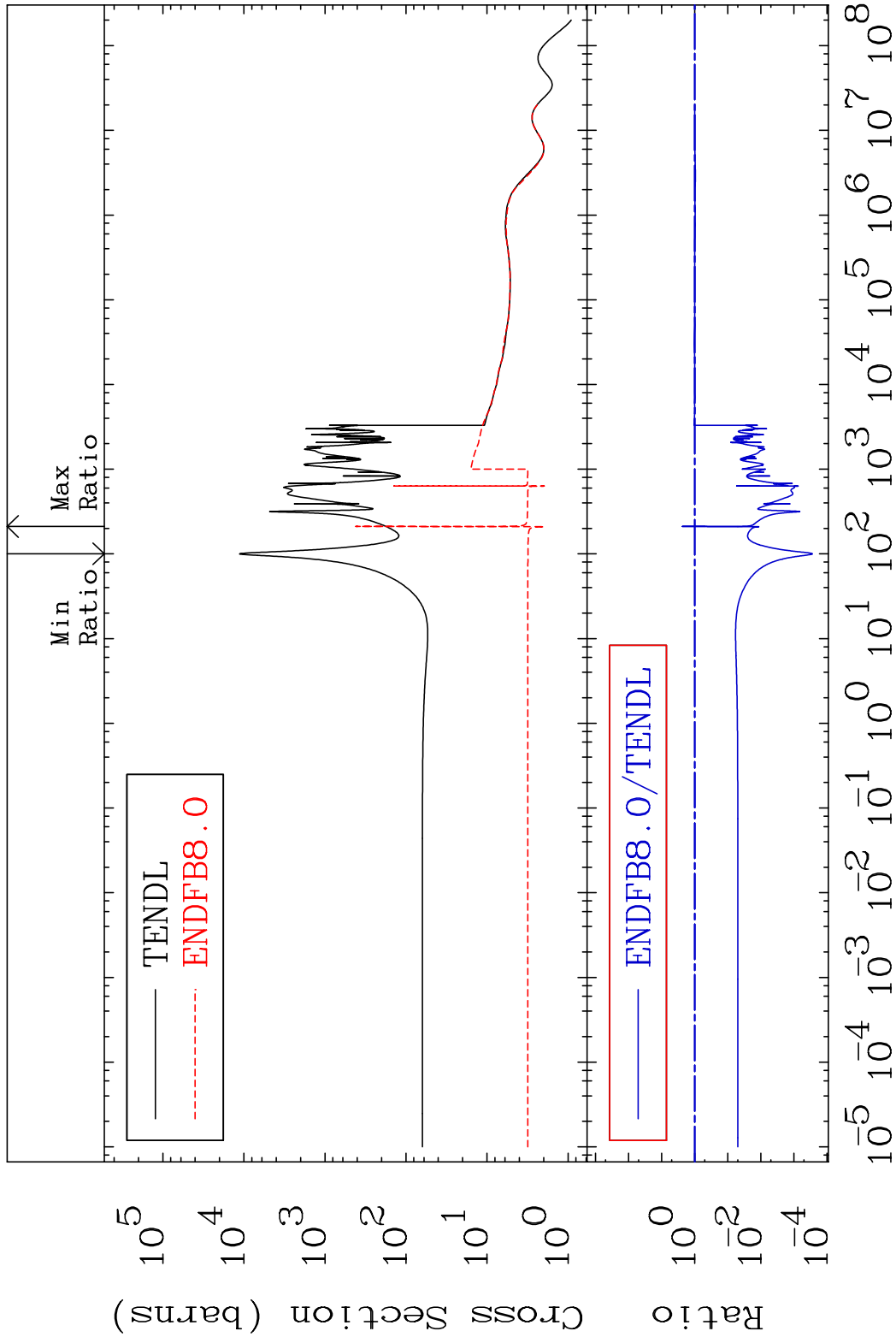
1 Incident Energy (eV) 52-Te-131m

MAT 5259

Elastic

52-Te-131m

Cross Section -99.97 To 137.6 %



2

Incident Energy (eV)

52-Te-131m

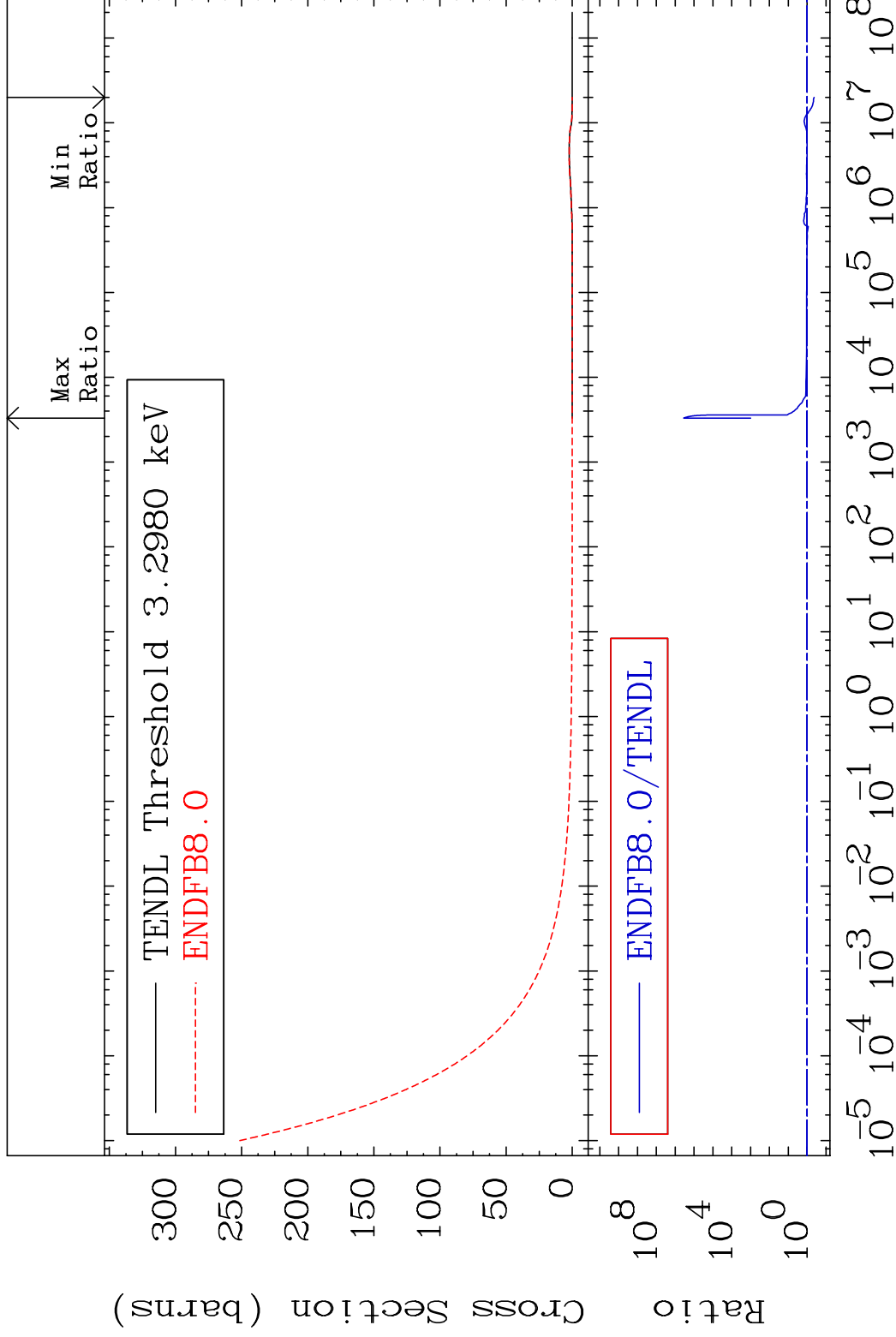
MAT 5259

Inelastic

52-Te-131m

Cross Section

-57.17 To 9999. %

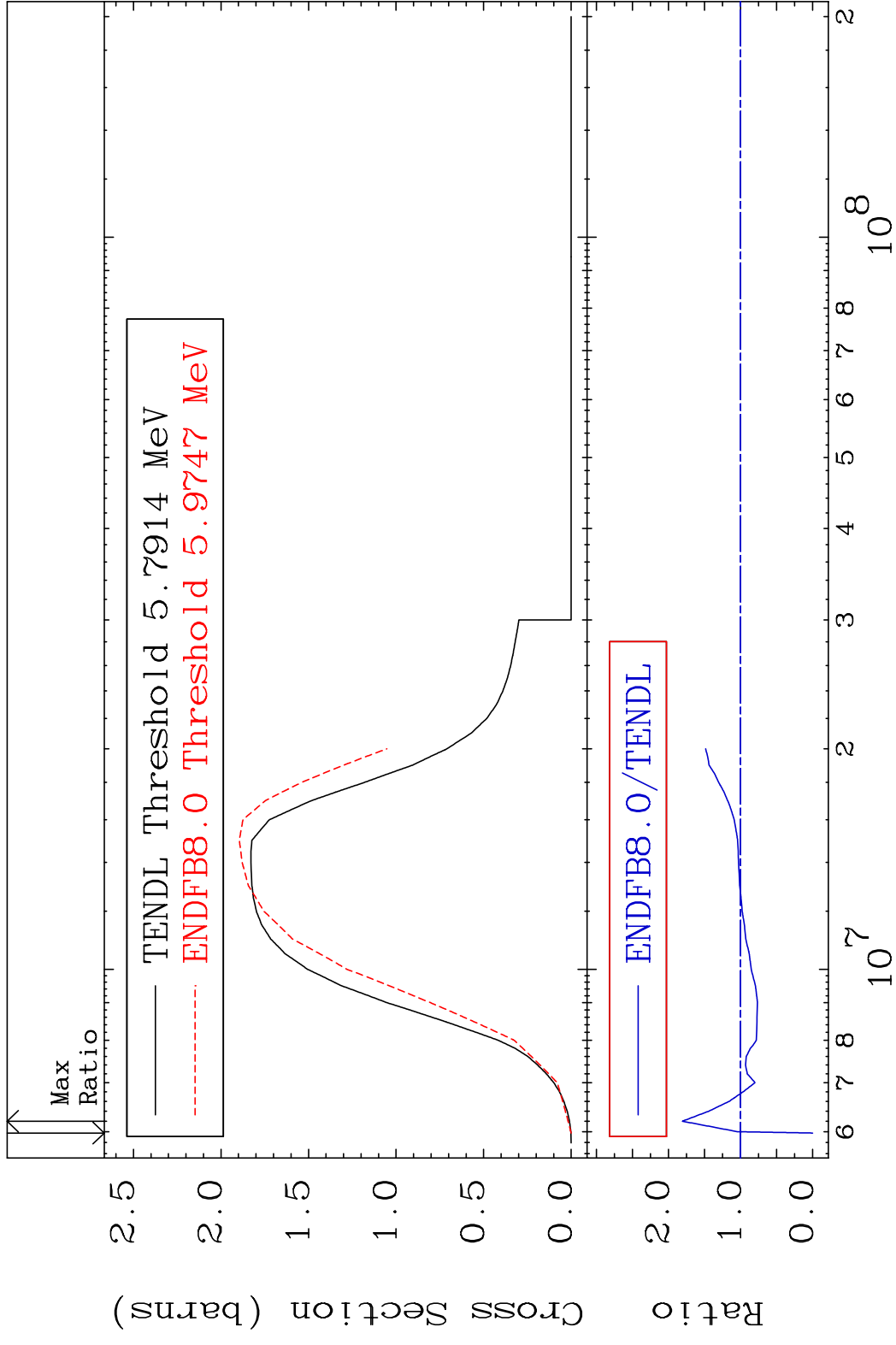


3

Incident Energy (eV)

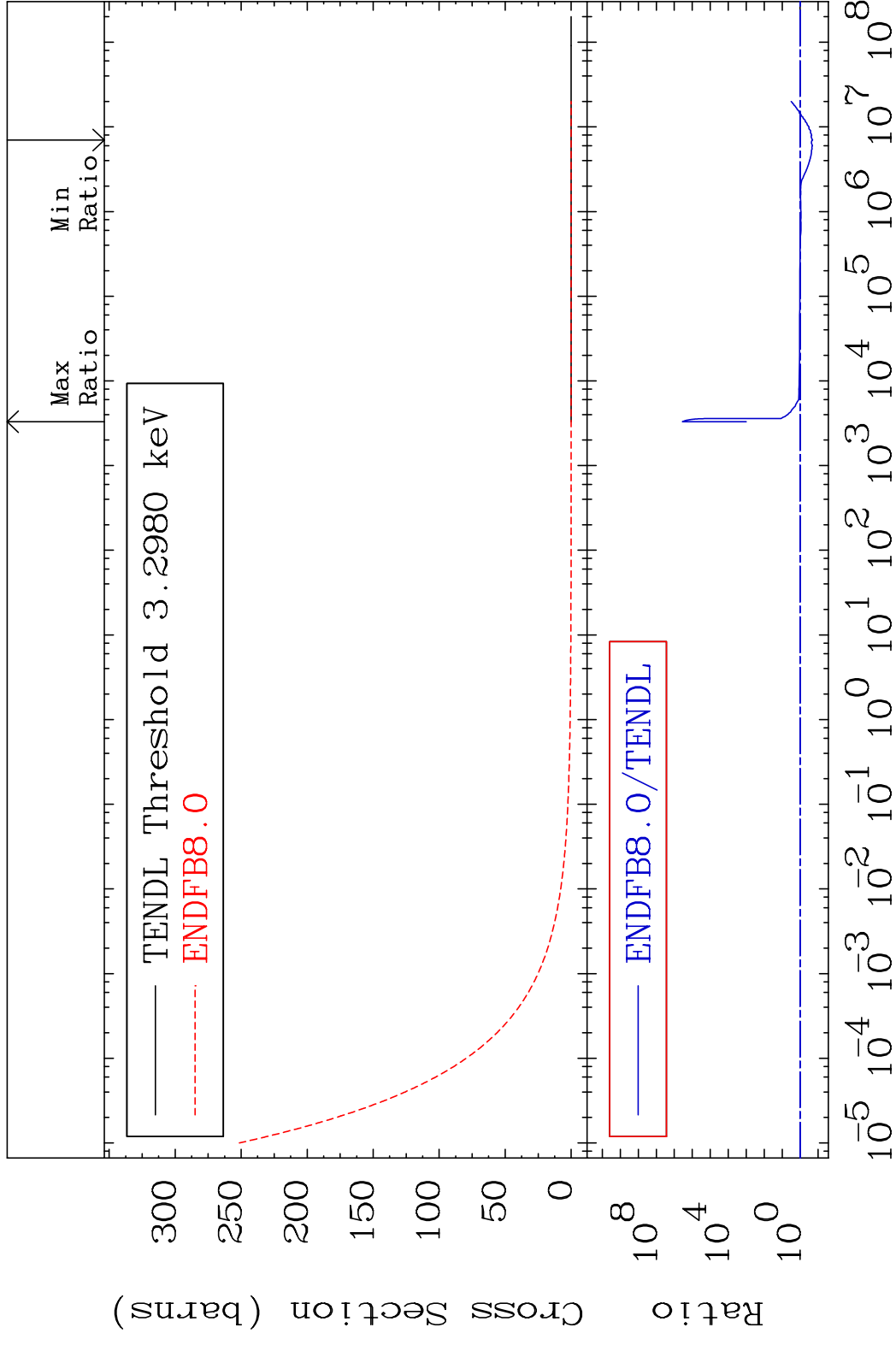
52-Te-131m

MAT 5259 (n,2n) 52-Te-131m
 Cross Section -100.0 To 80.69 %



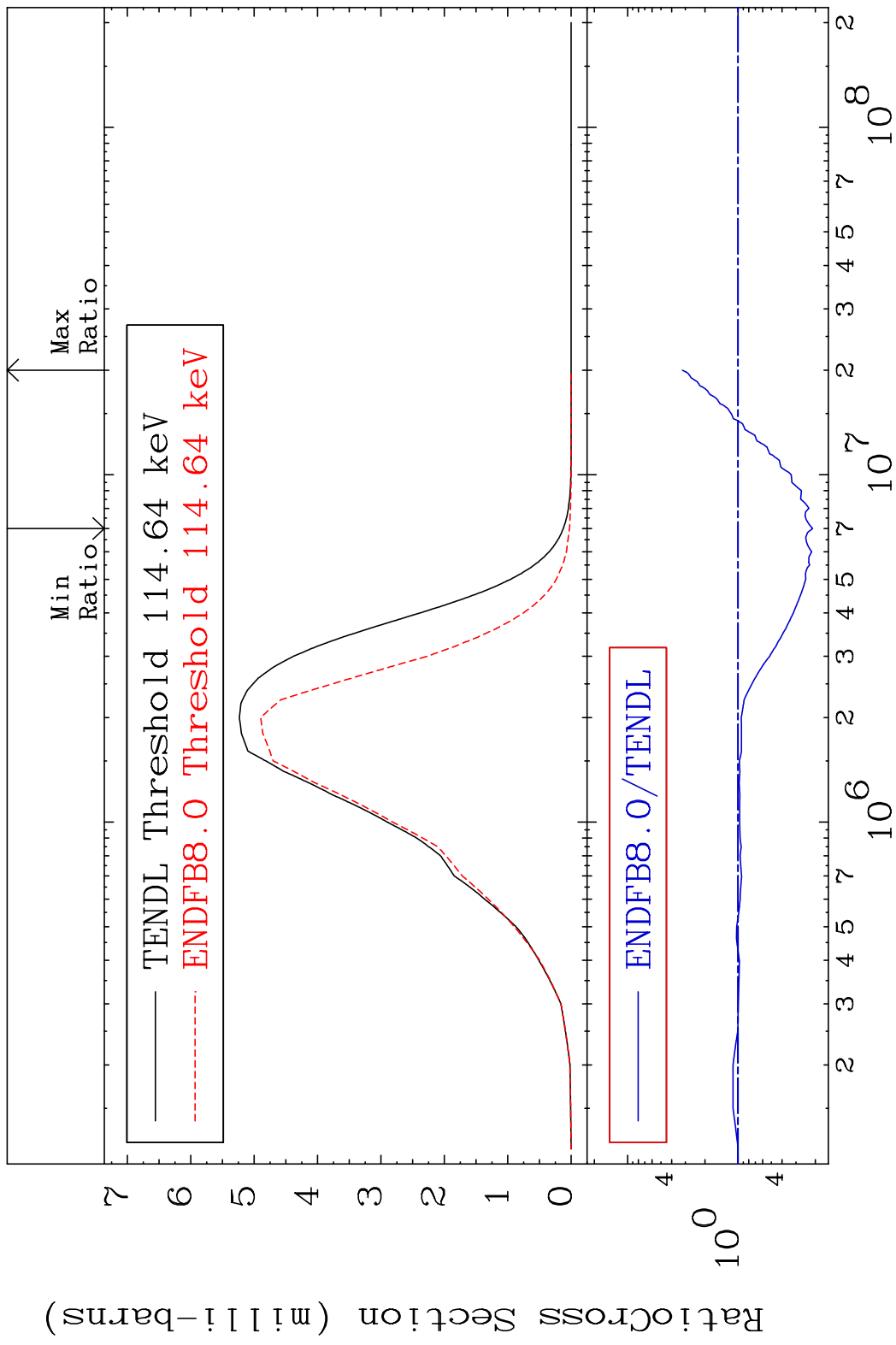
4 Incident Energy (eV) 52-Te-131m

MAT 5259 MT= 51 (n,n') Level 52-Te-131m
 Cross Section -79.55 To 9999. %

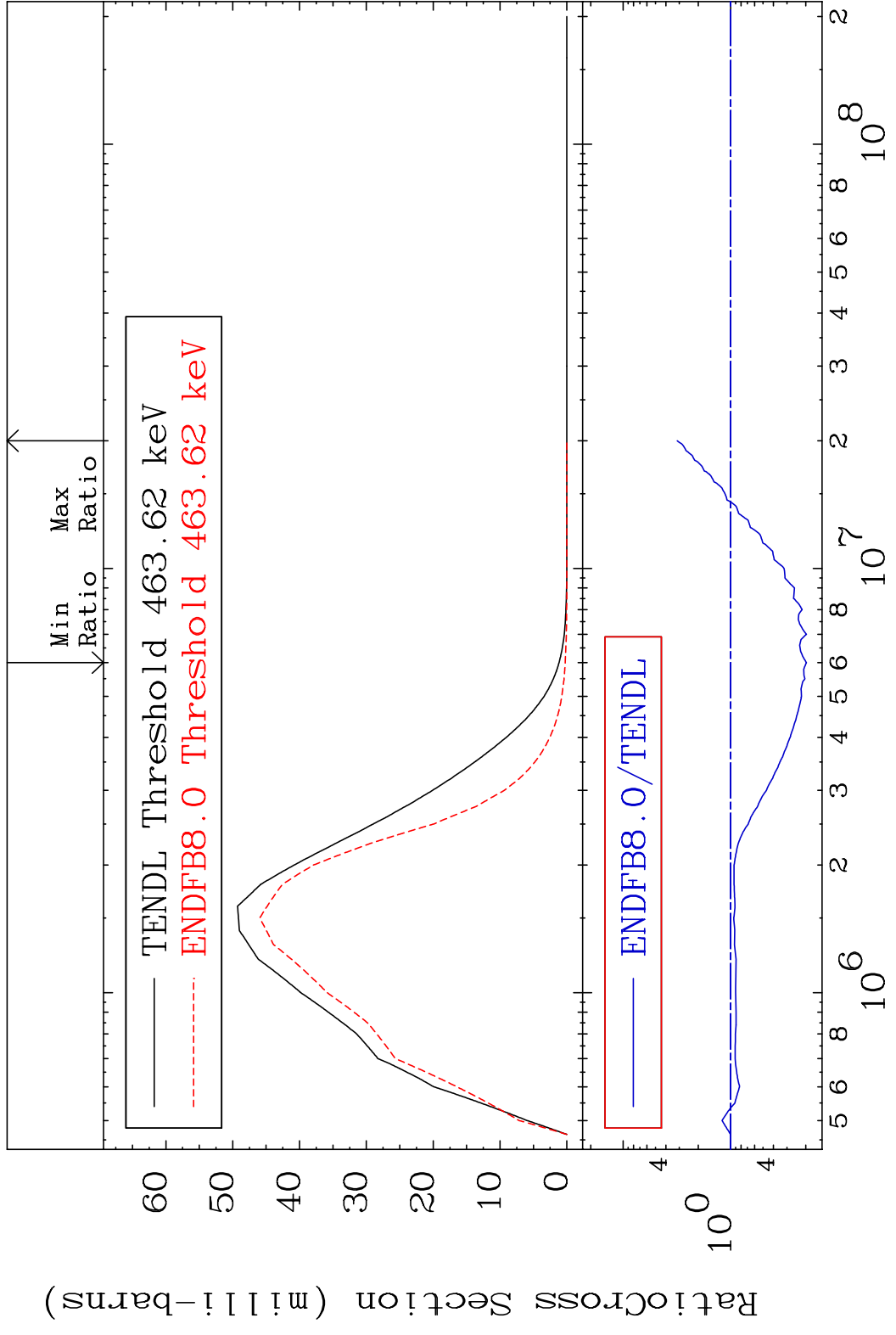


5 Incident Energy (eV) 52-Te-131m

MAT 5259 MT= 52 (n, n') Level 52-Te-131m
 Cross Section -78.78 To 219.6 %

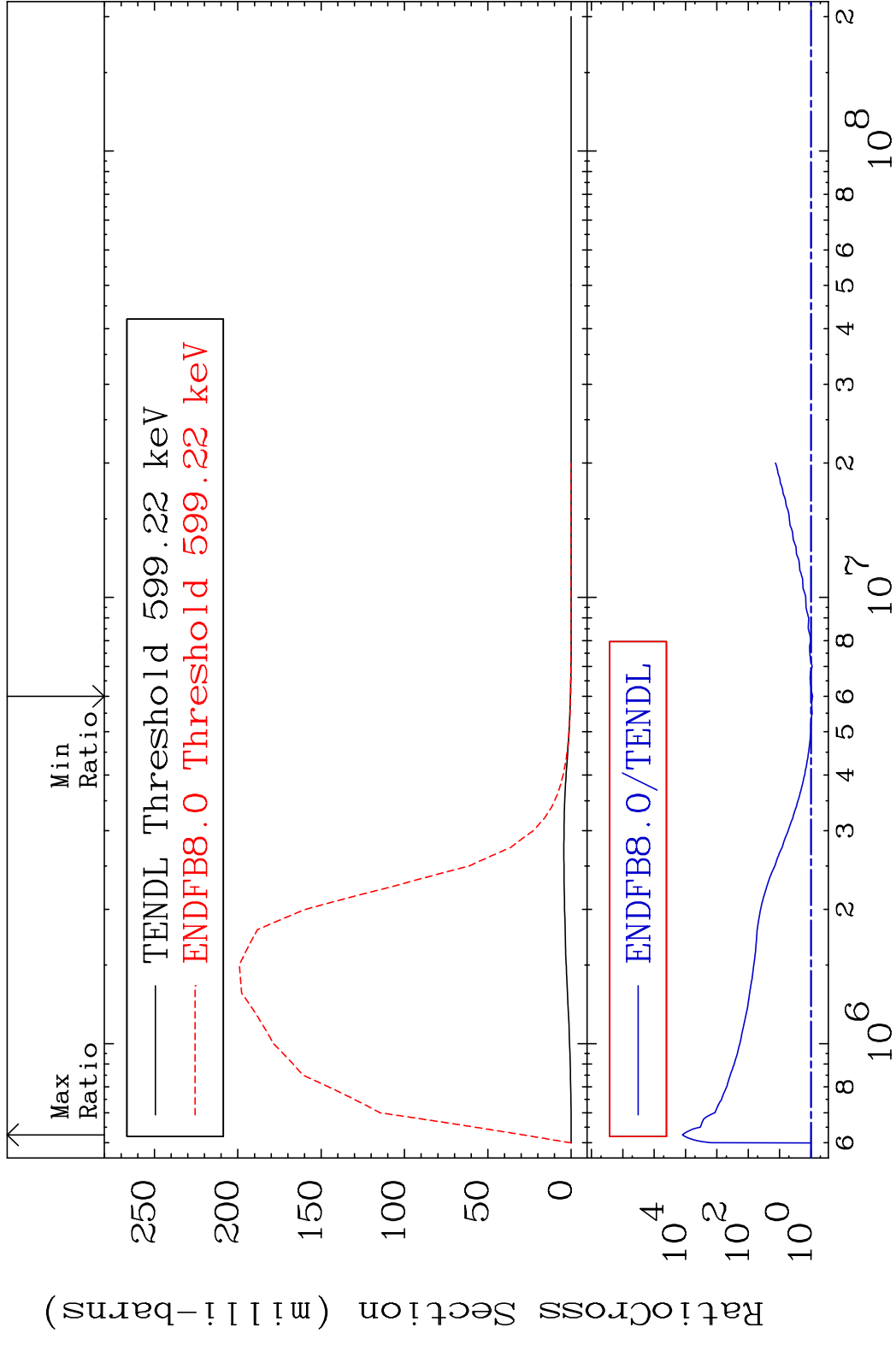


MAT 5259 MT= 53 (n, n') Level 52-Te-131m
 Cross Section -80.25 To 214.2 %



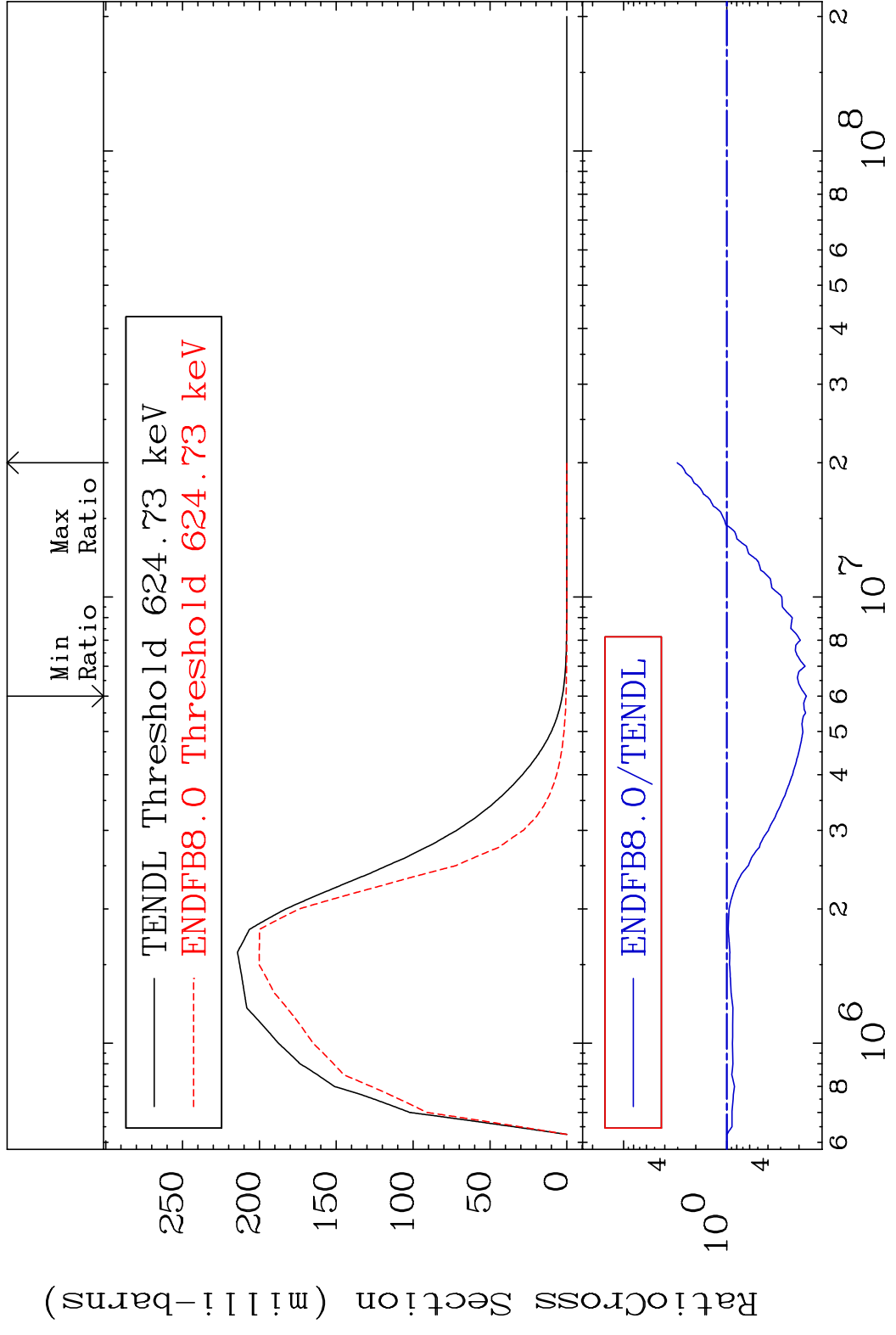
7 Incident Energy (eV) 52-Te-131m

MAT 5259 MT= 54 (n,n') Level 52-Te-131m
 Cross Section -11.37 To 9999. %

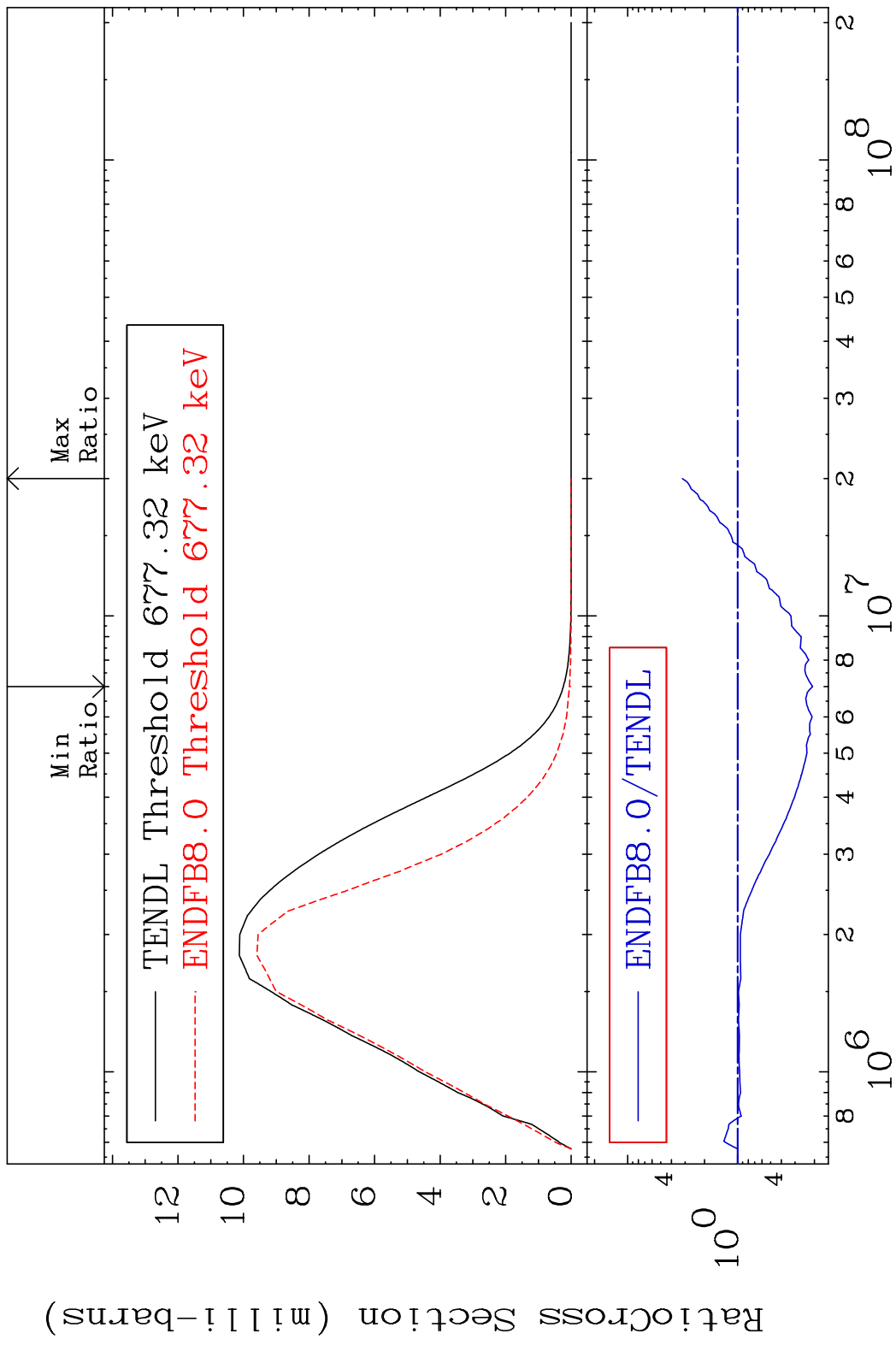


8 Incident Energy (eV) 52-Te-131m

MAT 5259 MT= 55 (n, n') Level 52-Te-131m
 Cross Section -83.07 To 202.6 %

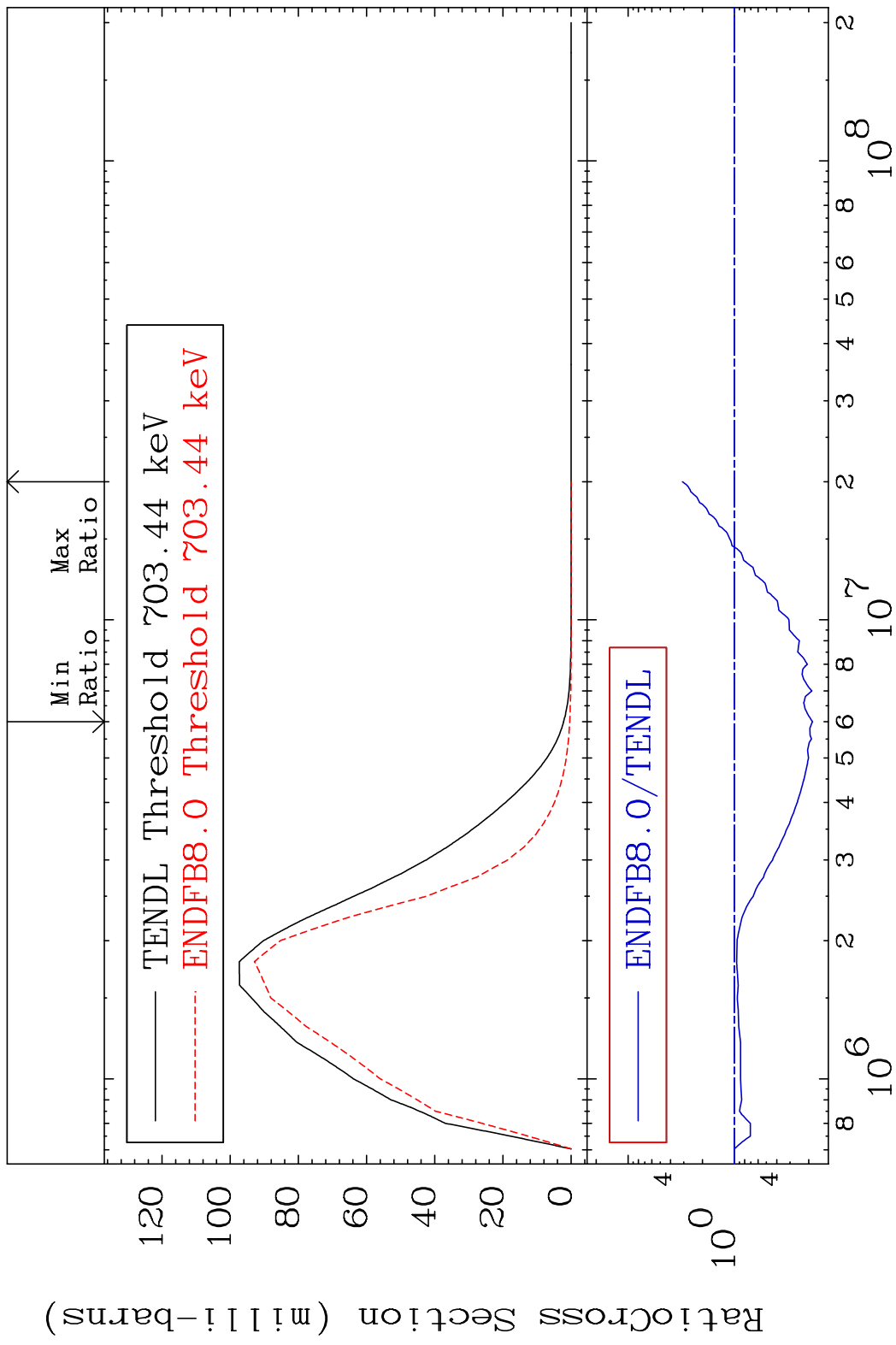


MAT 5259 MT= 56 (n, n') Level 52-Te-131m
 Cross Section -79.17 To 218.3 %



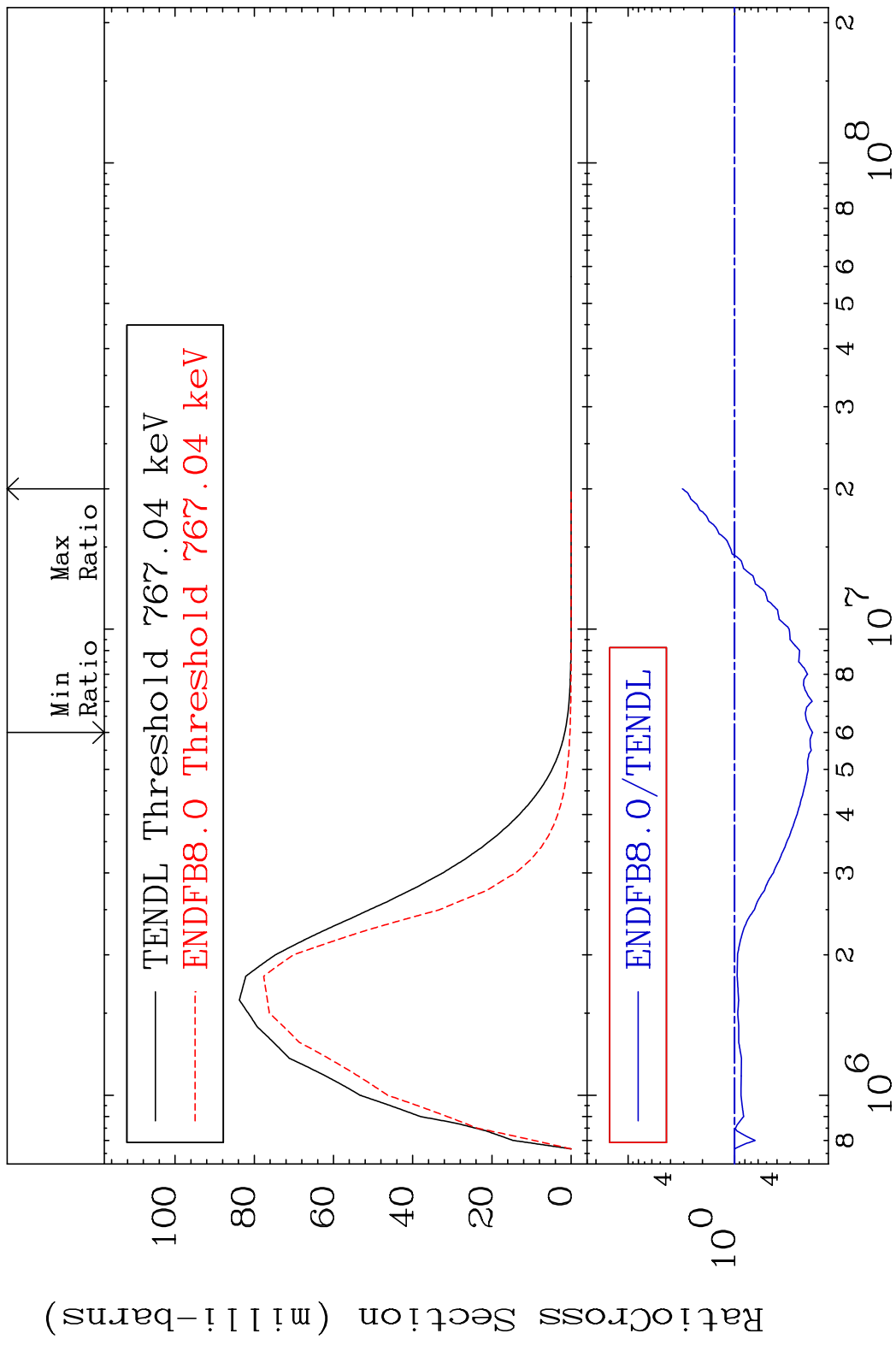
10 Incident Energy (eV) 52-Te-131m

MAT 5259 MT= 57 (n, n') Level 52-Te-131m
 Cross Section -81.61 To 209.2 %



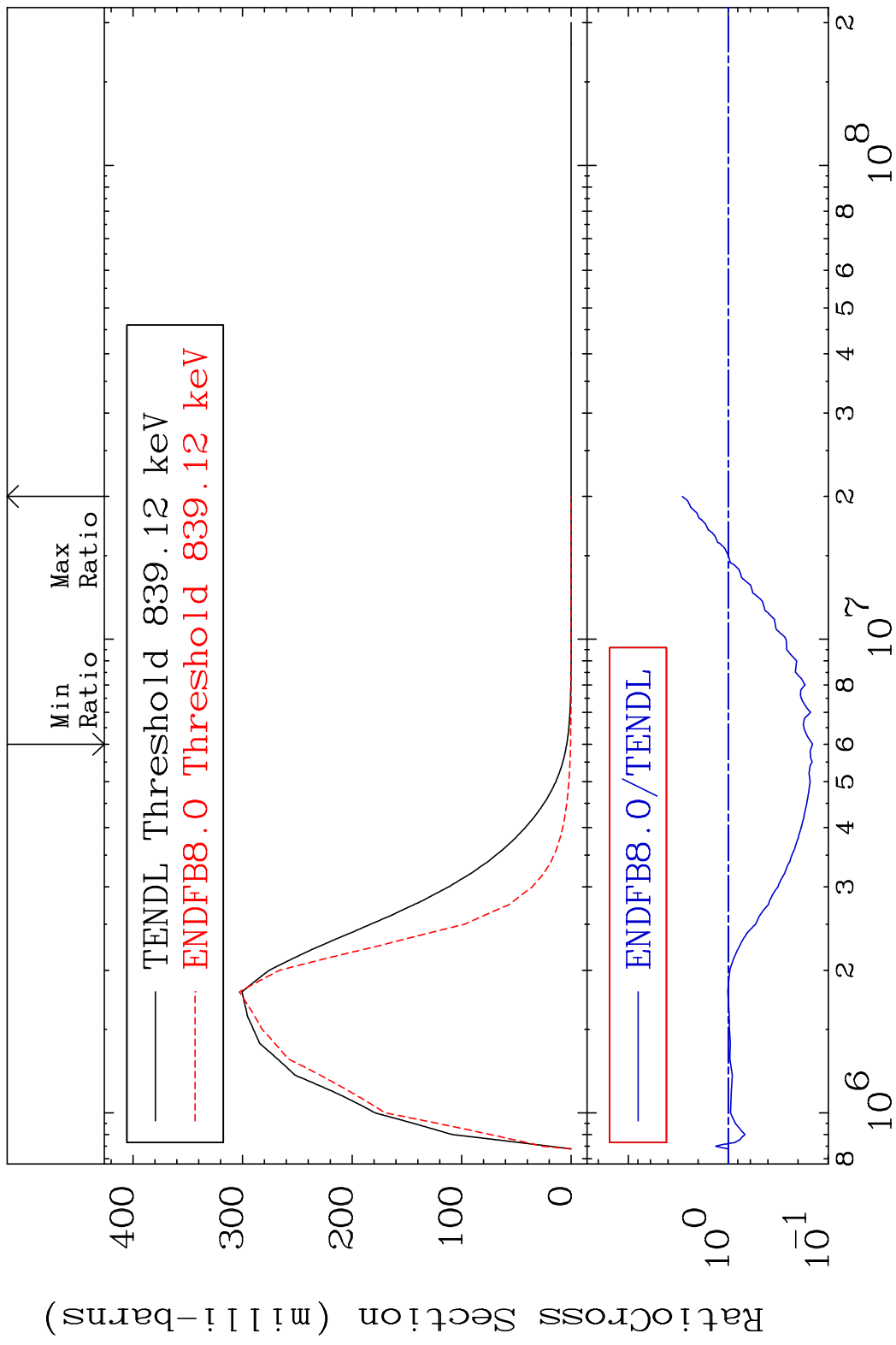
11 Incident Energy (eV) 52-Te-131m

MAT 5259 MT= 58 (n, n') Level 52-Te-131m
 Cross Section -81.48 To 209.4 %



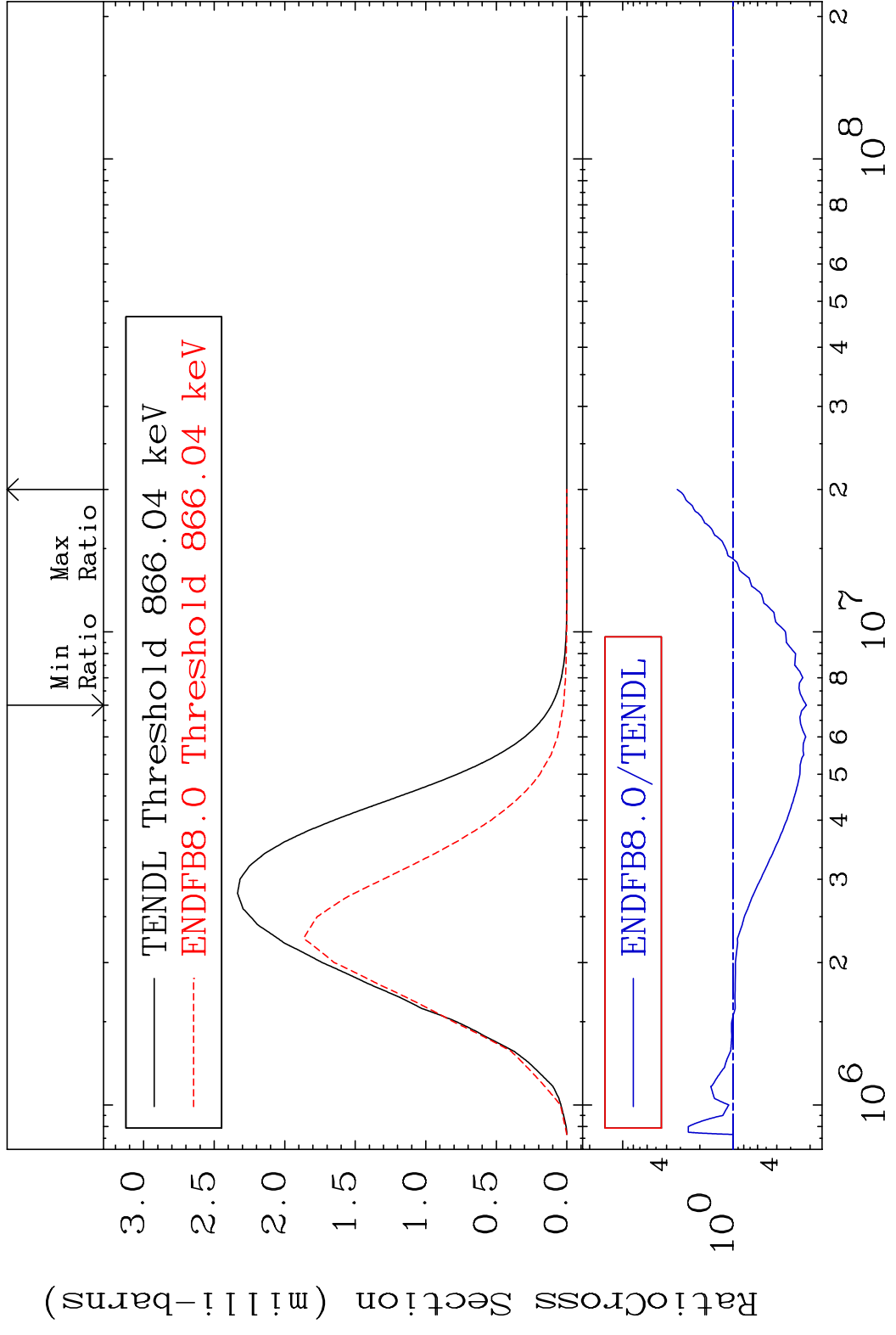
12 Incident Energy (eV) 52-Te-131m

MAT 5259 MT= 59 (n, n') Level 52-Te-131m
 Cross Section -85.70 To 187.7 %

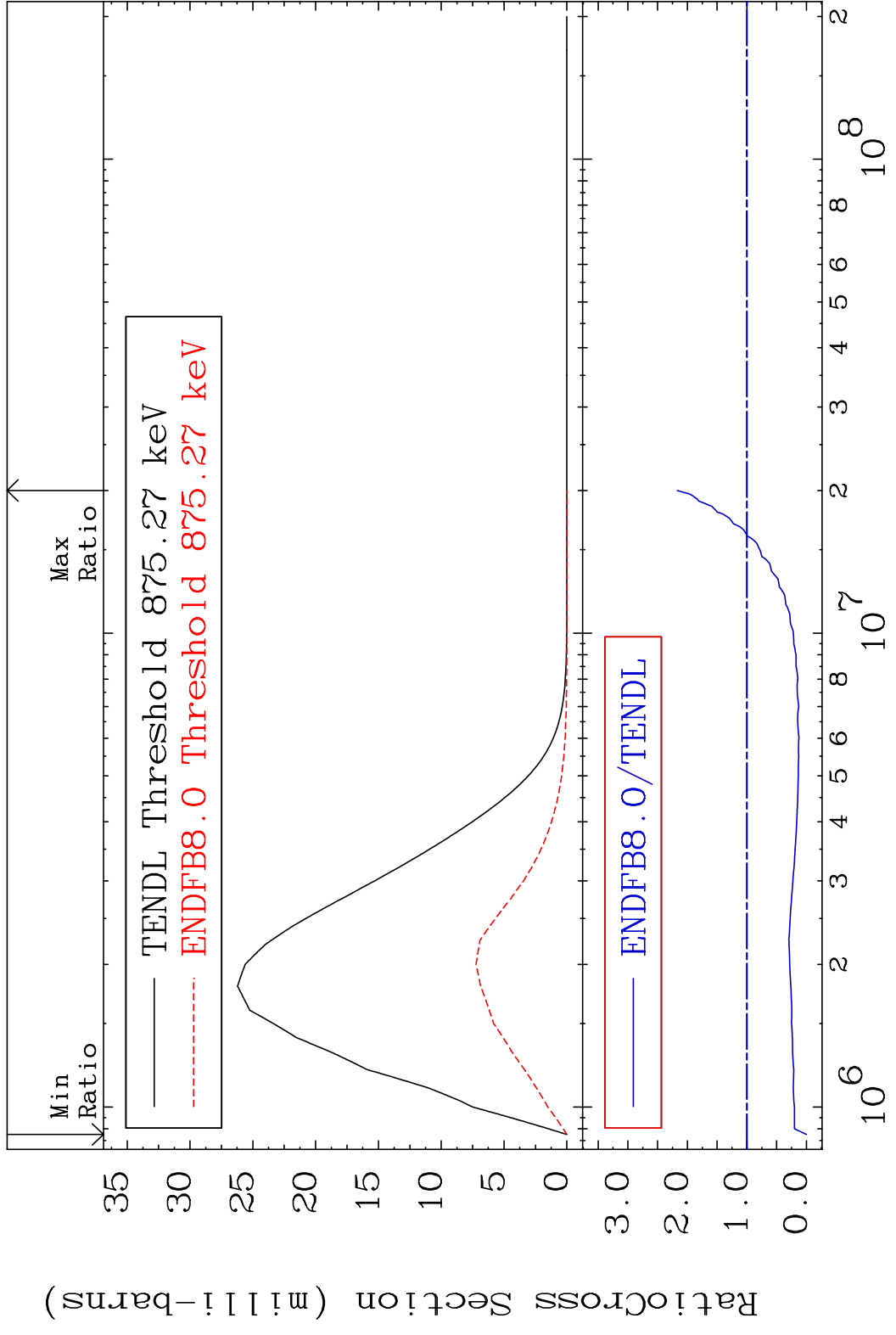


13 Incident Energy (eV) 52-Te-131m

MAT 5259 MT= 60 (n, n') Level 52-Te-131m
 Cross Section -78.40 To 220.7 %

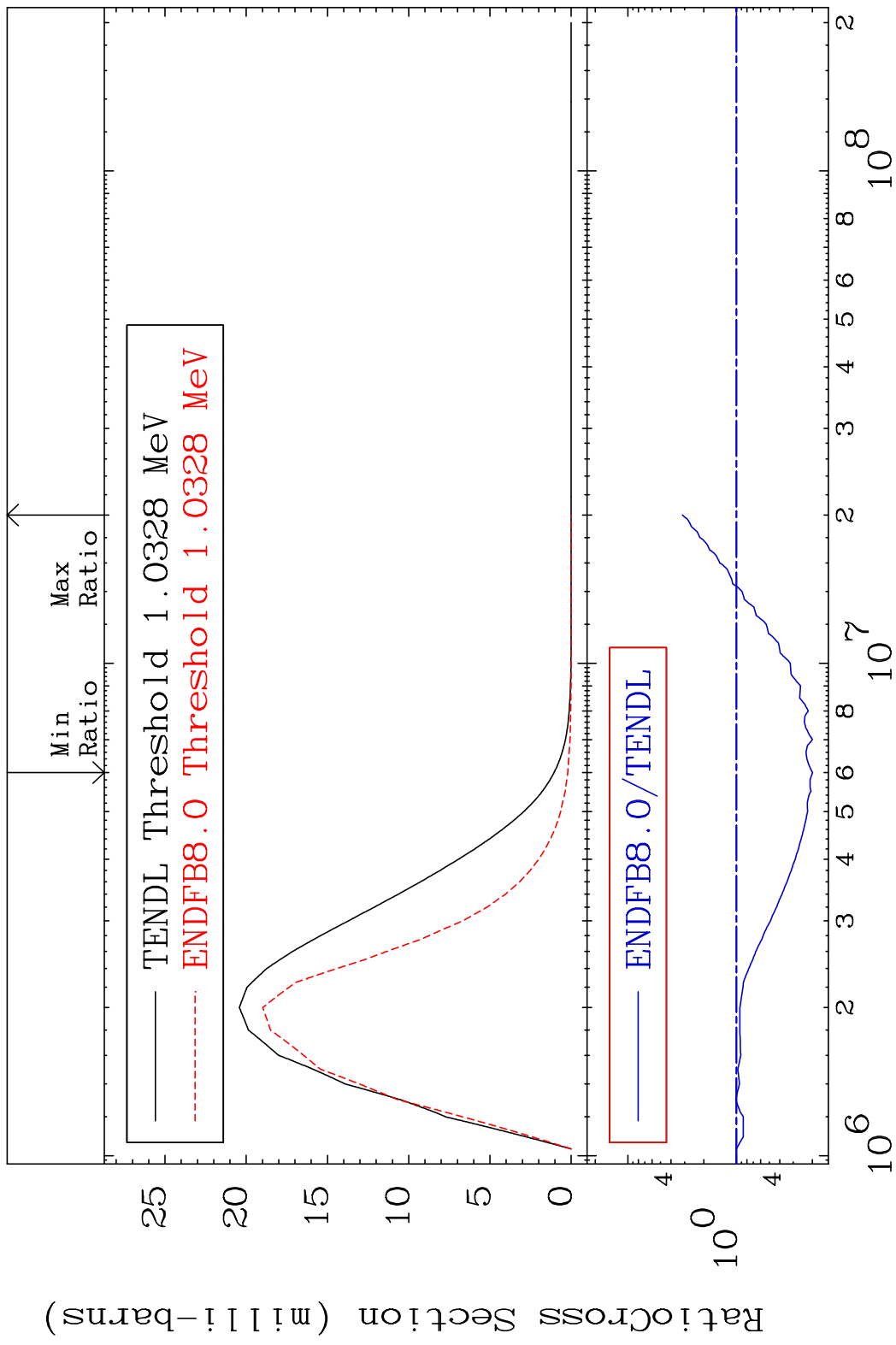


MAT 5259 MT= 61 (n, n') Level 52-Te-131m
 Cross Section -100.0 To 117.1 %



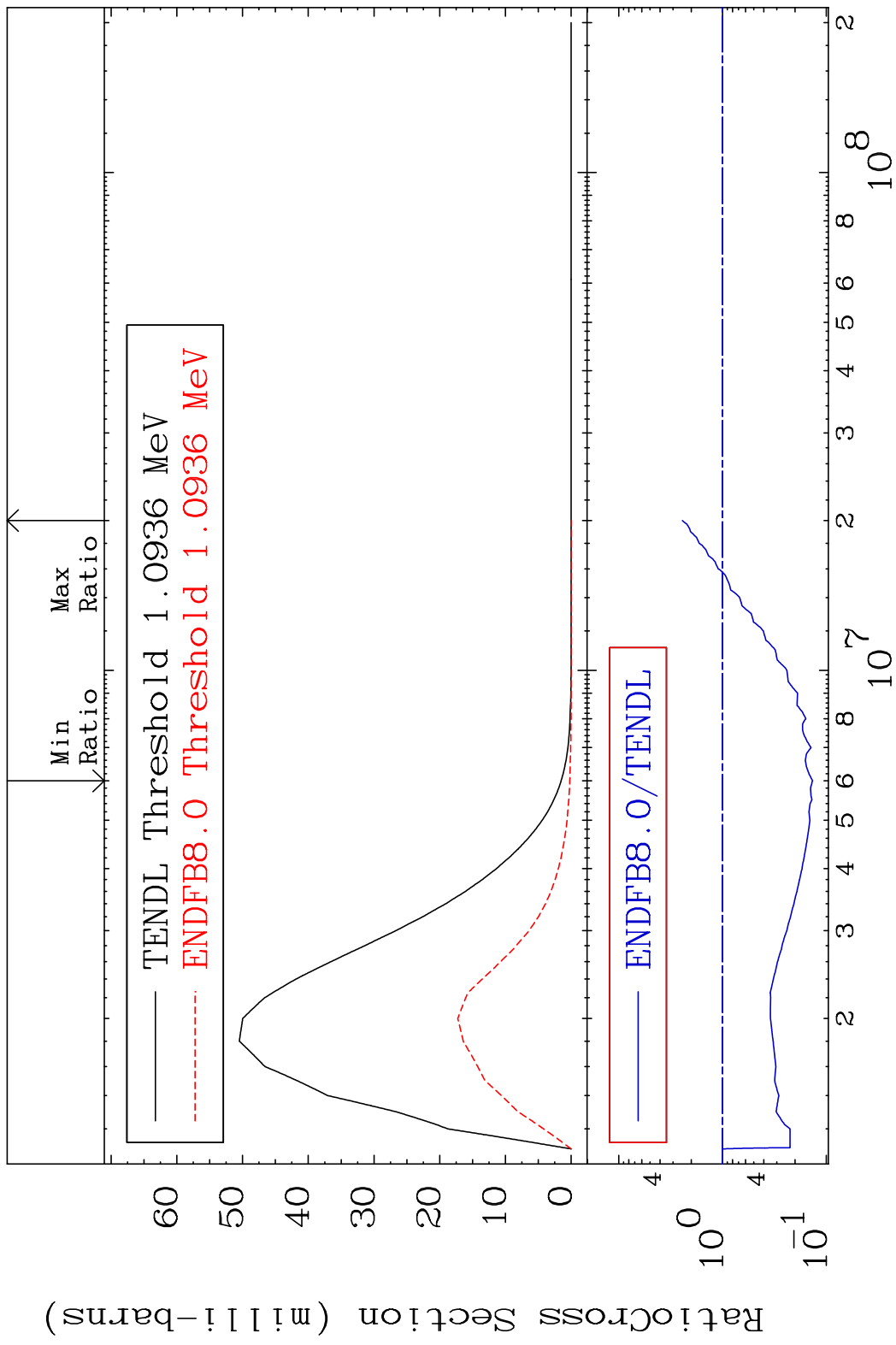
15 Incident Energy (eV) 52-Te-131m

MAT 5259 MT= 62 (n, n') Level 52-Te-131m
 Cross Section -80.07 To 215.0 %

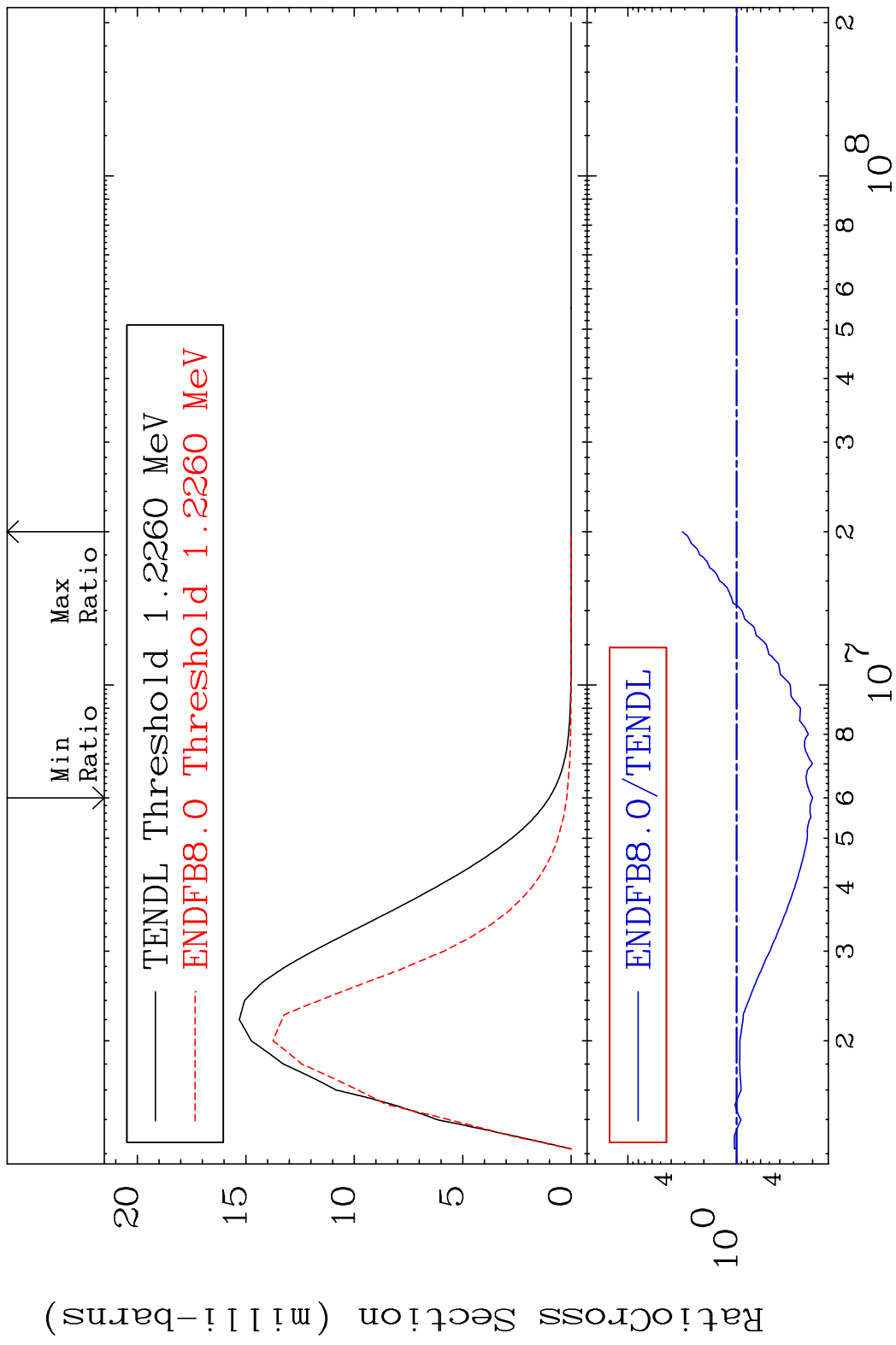


16 Incident Energy (eV) 52-Te-131m

MAT 5259 MT= 63 (n, n') Level 52-Te-131m
 Cross Section -86.46 To 143.7 %

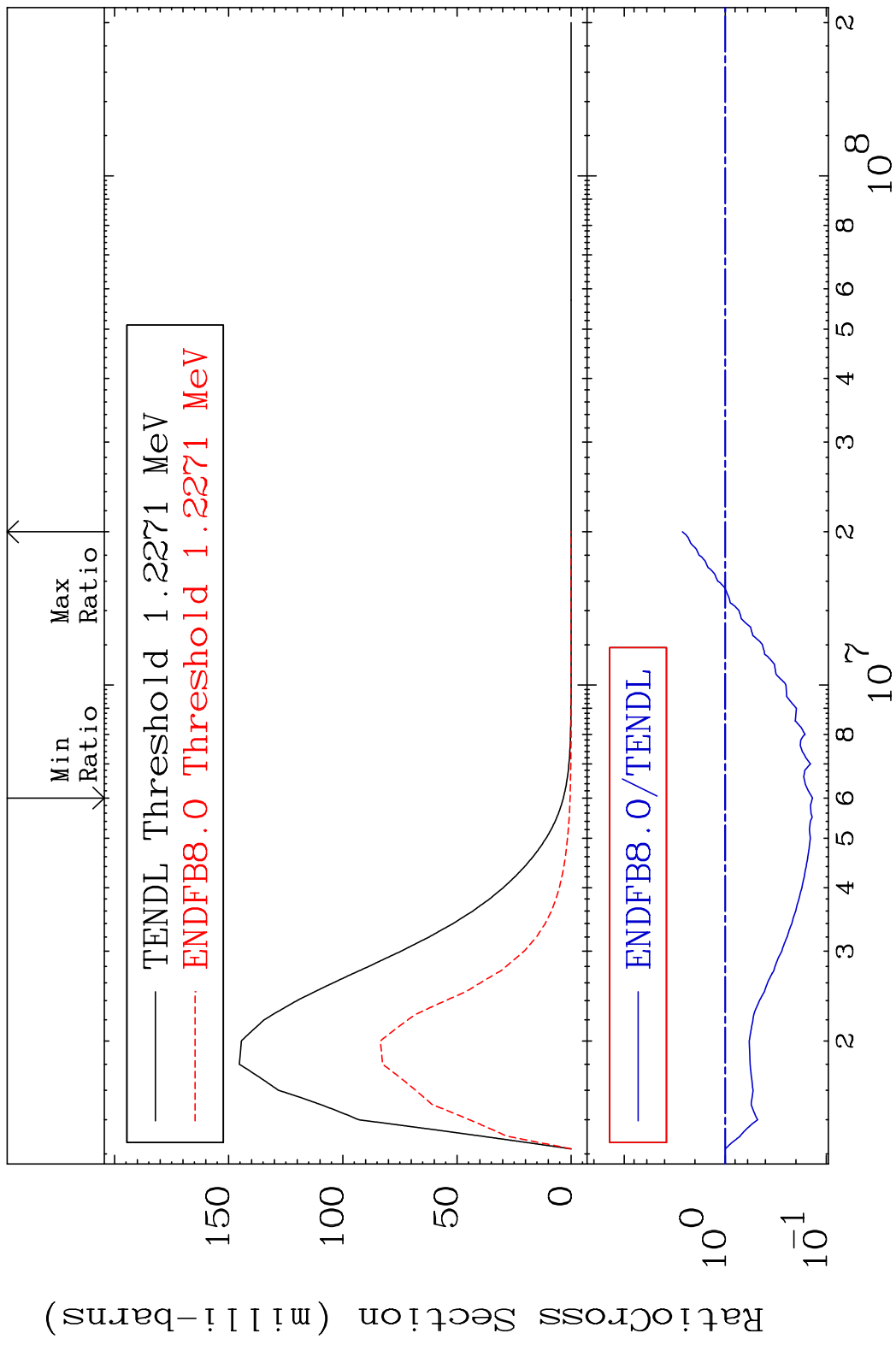


MAT 5259 MT= 64 (n, n') Level 52-Te-131m
 Cross Section -80.02 To 215.3 %

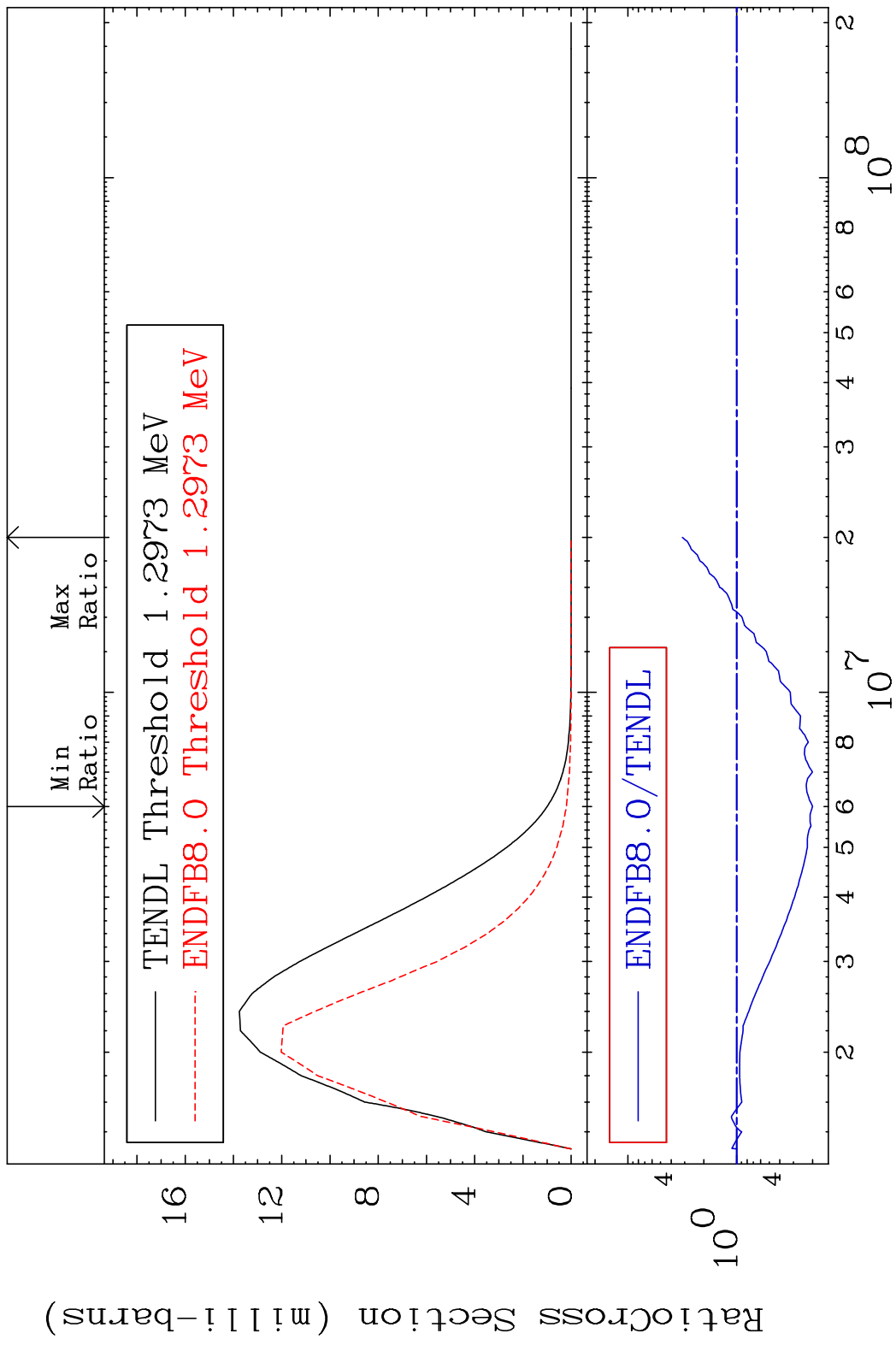


18 Incident Energy (eV) 52-Te-131m

MAT 5259 MT= 65 (n, n') Level 52-Te-131m
 Cross Section -86.33 To 166.2 %

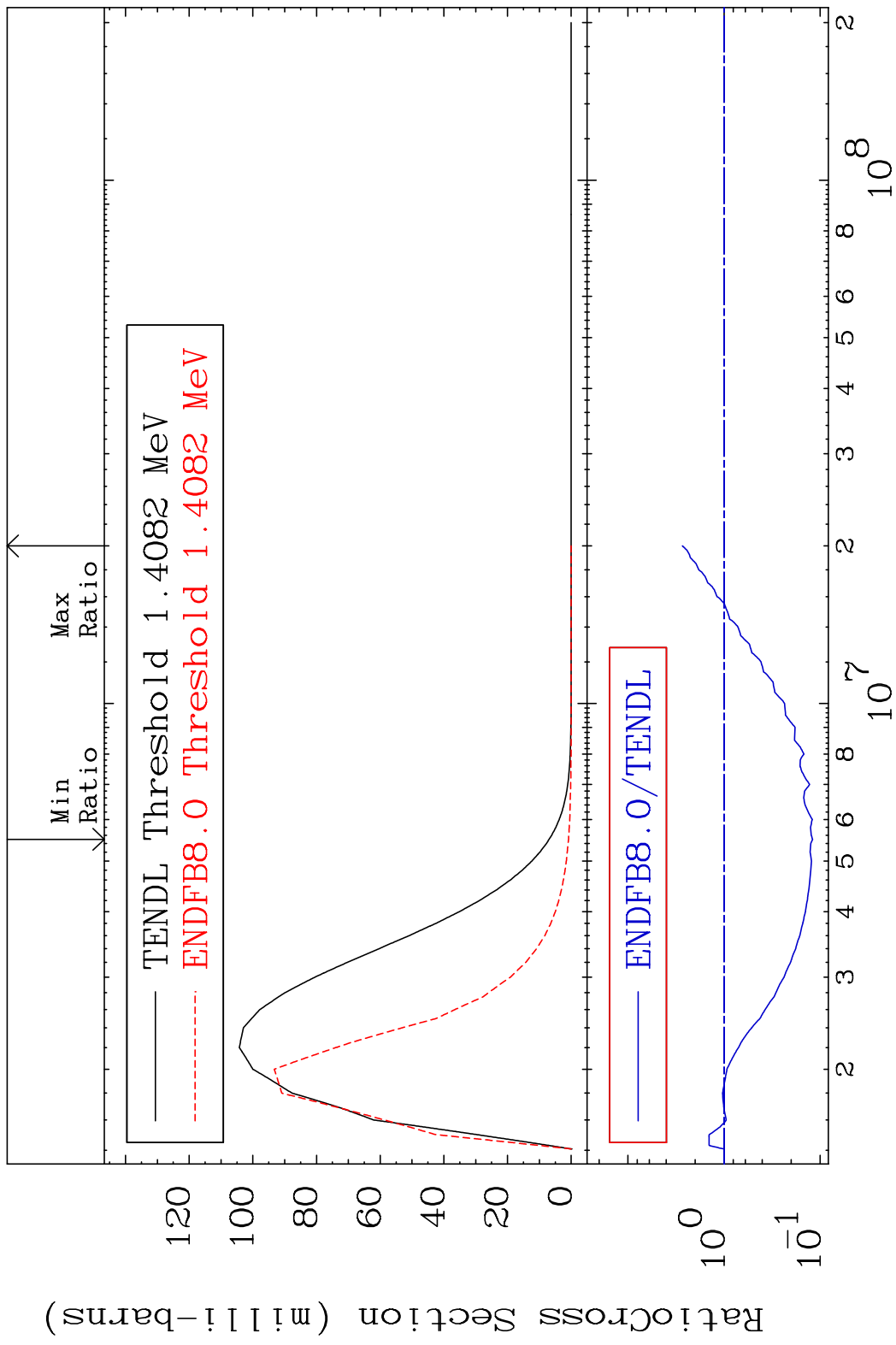


MAT 5259 MT= 66 (n, n') Level 52-Te-131m
 Cross Section -79.99 To 215.4 %

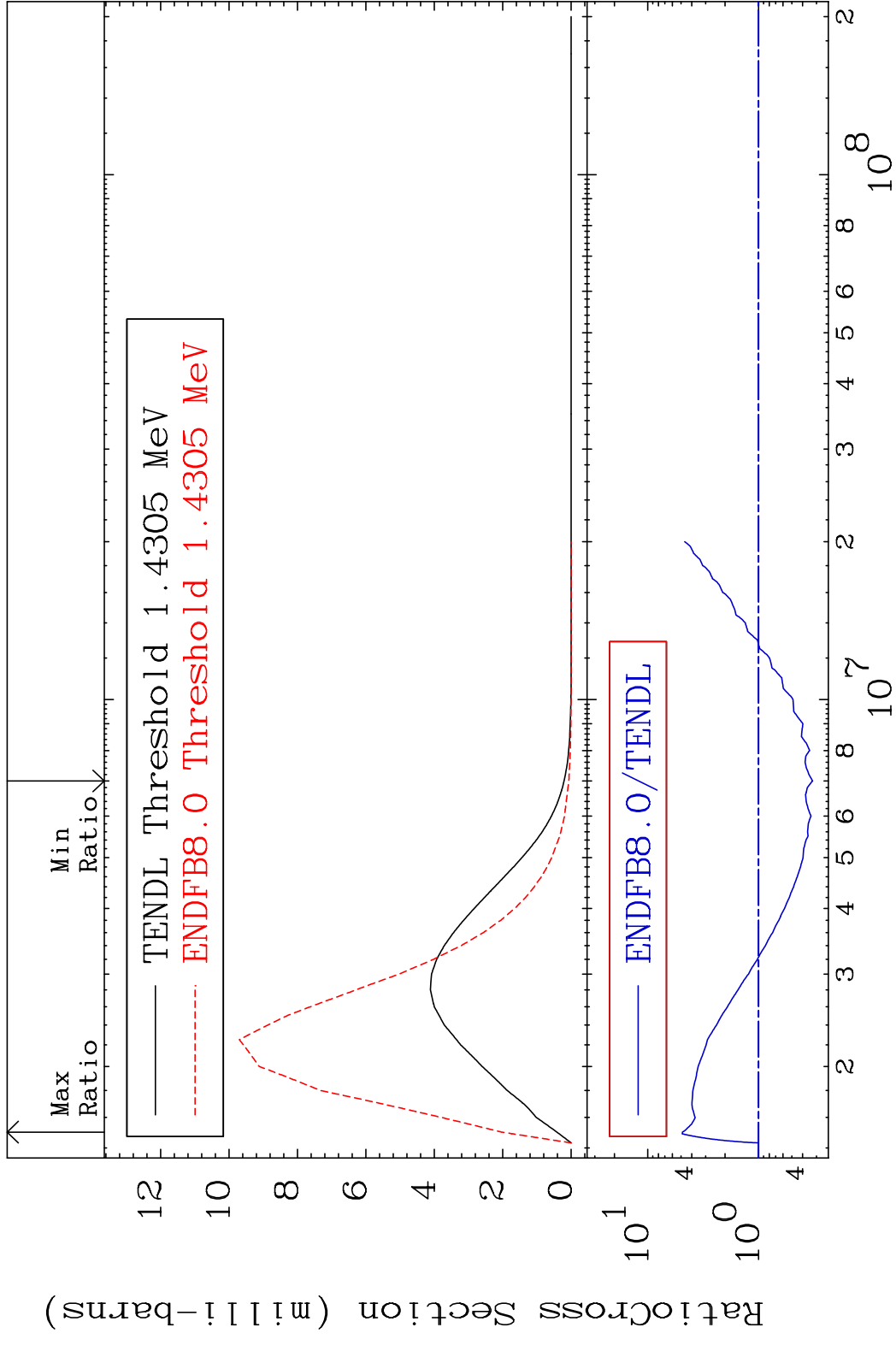


20 Incident Energy (eV) 52-Te-131m

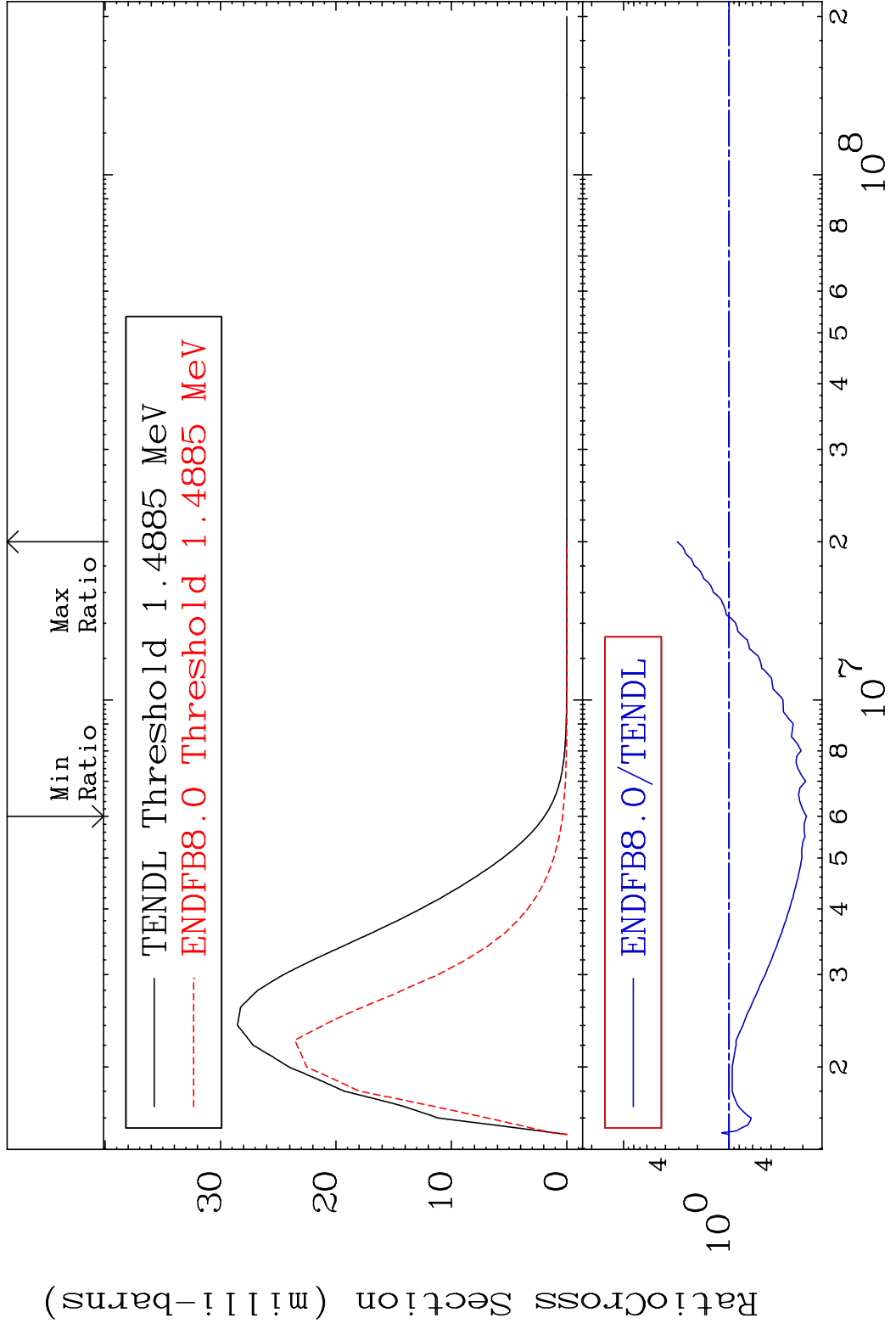
MAT 5259 MT= 67 (n, n') Level 52-Te-131m
 Cross Section -88.02 To 171.6 %



MAT 5259 MT= 68 (n,n') Level 52-Te-131m
 Cross Section -67.51 To 386.7 %

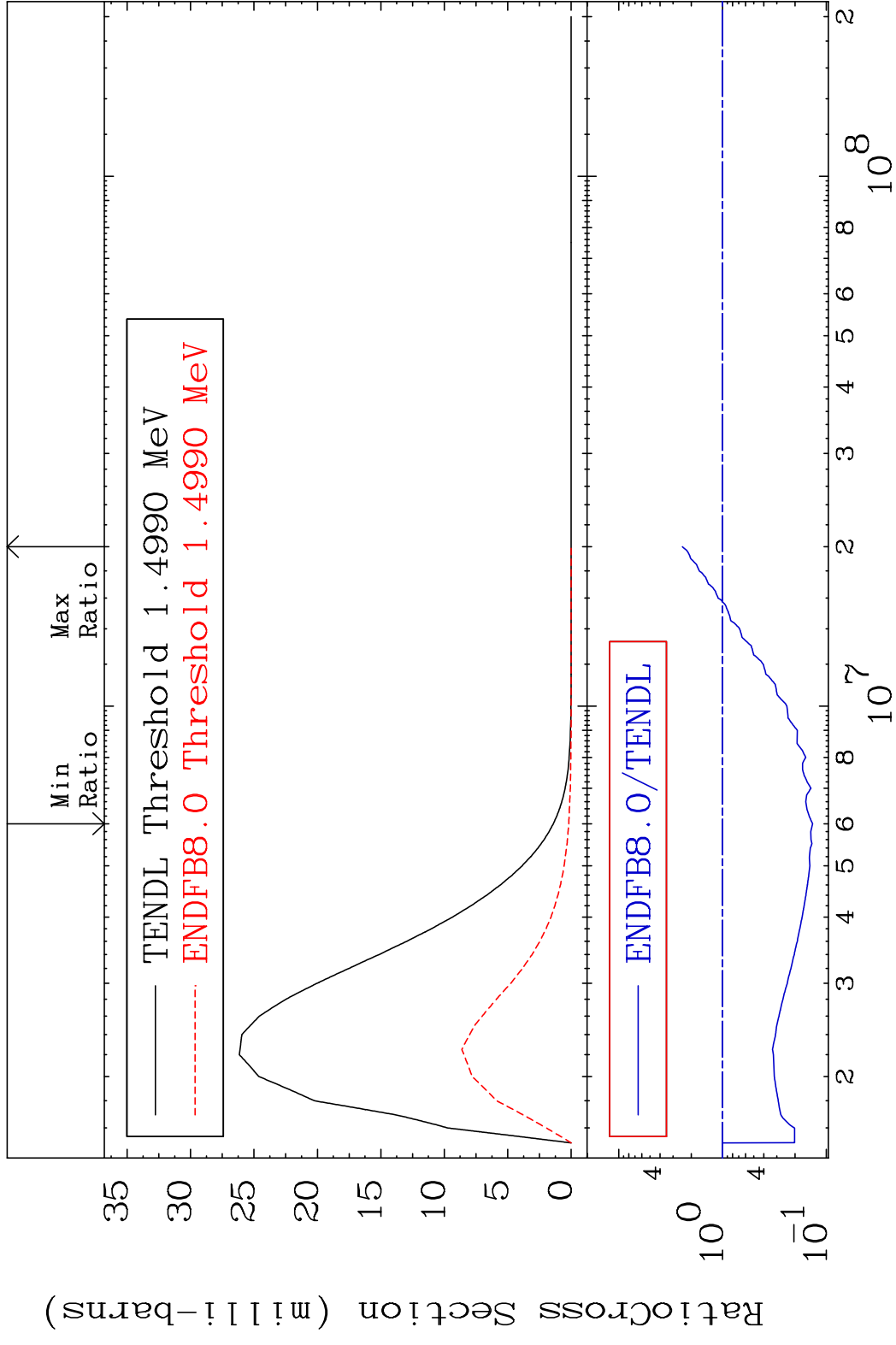


MAT 5259 MT= 69 (n, n') Level 52-Te-131m
 Cross Section -81.46 To 210.1 %

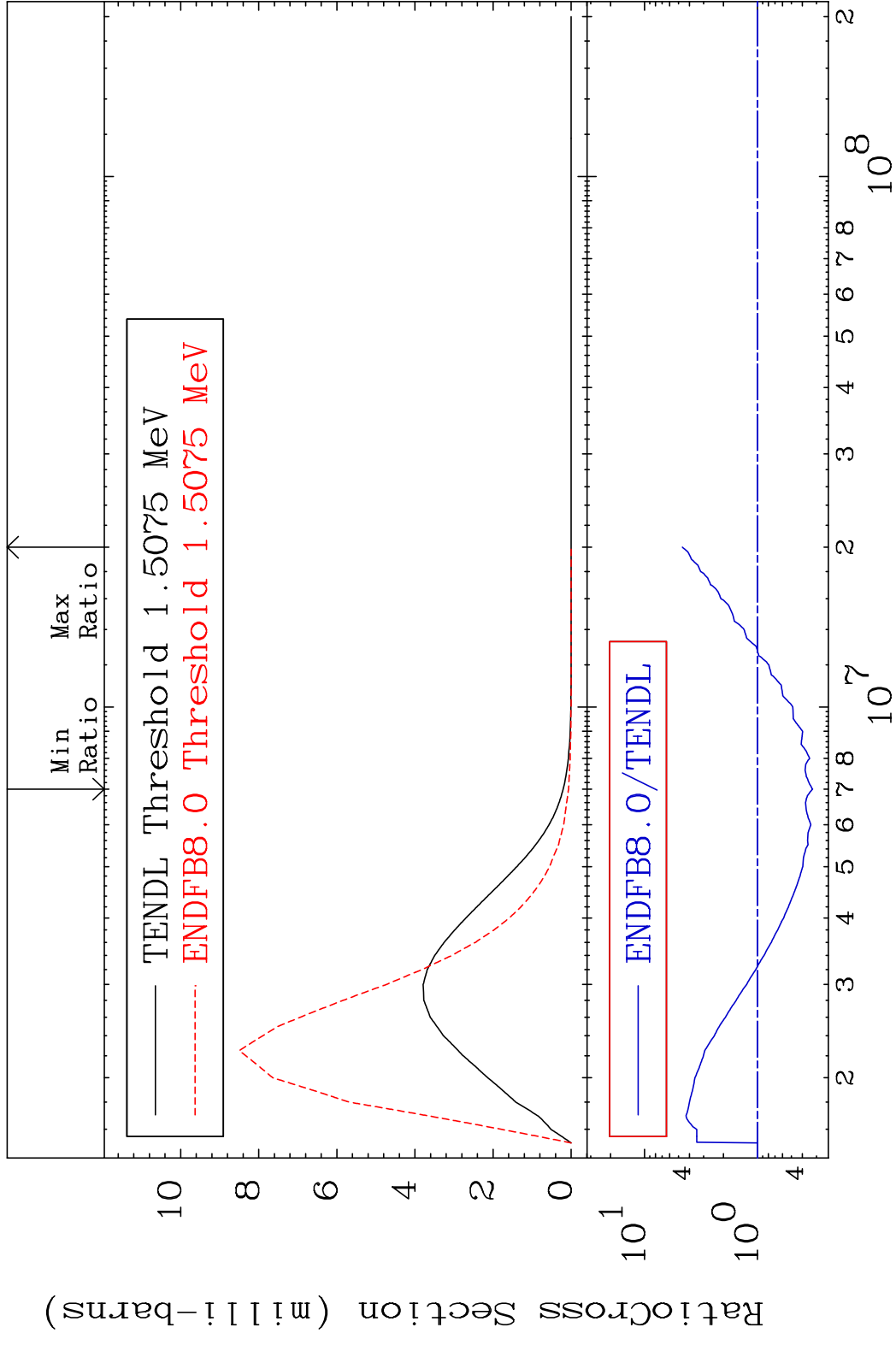


23 Incident Energy (eV) 52-Te-131m

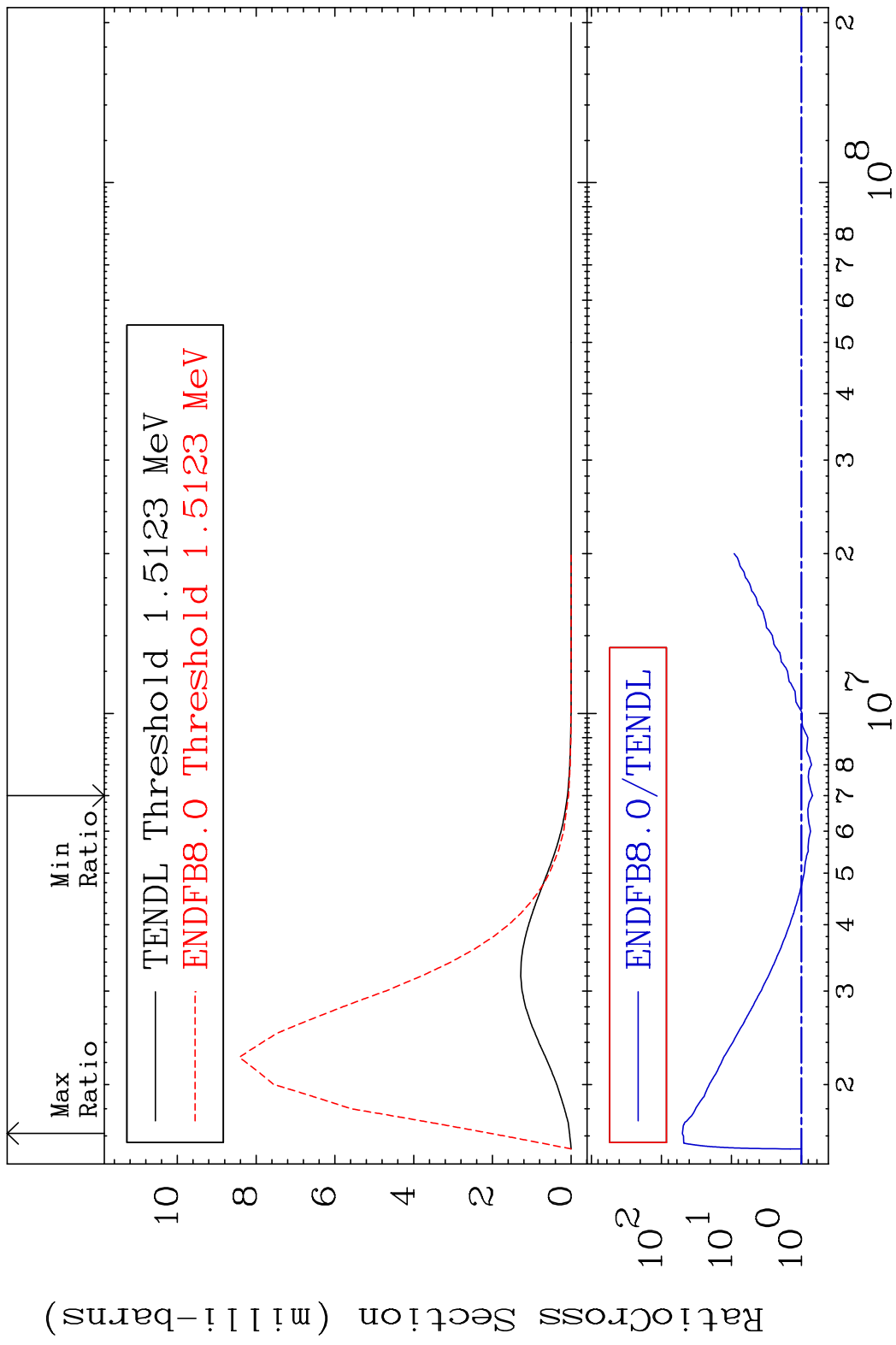
MAT 5259 MT= 70 (n, n') Level 52-Te-131m
 Cross Section -86.44 To 144.1 %



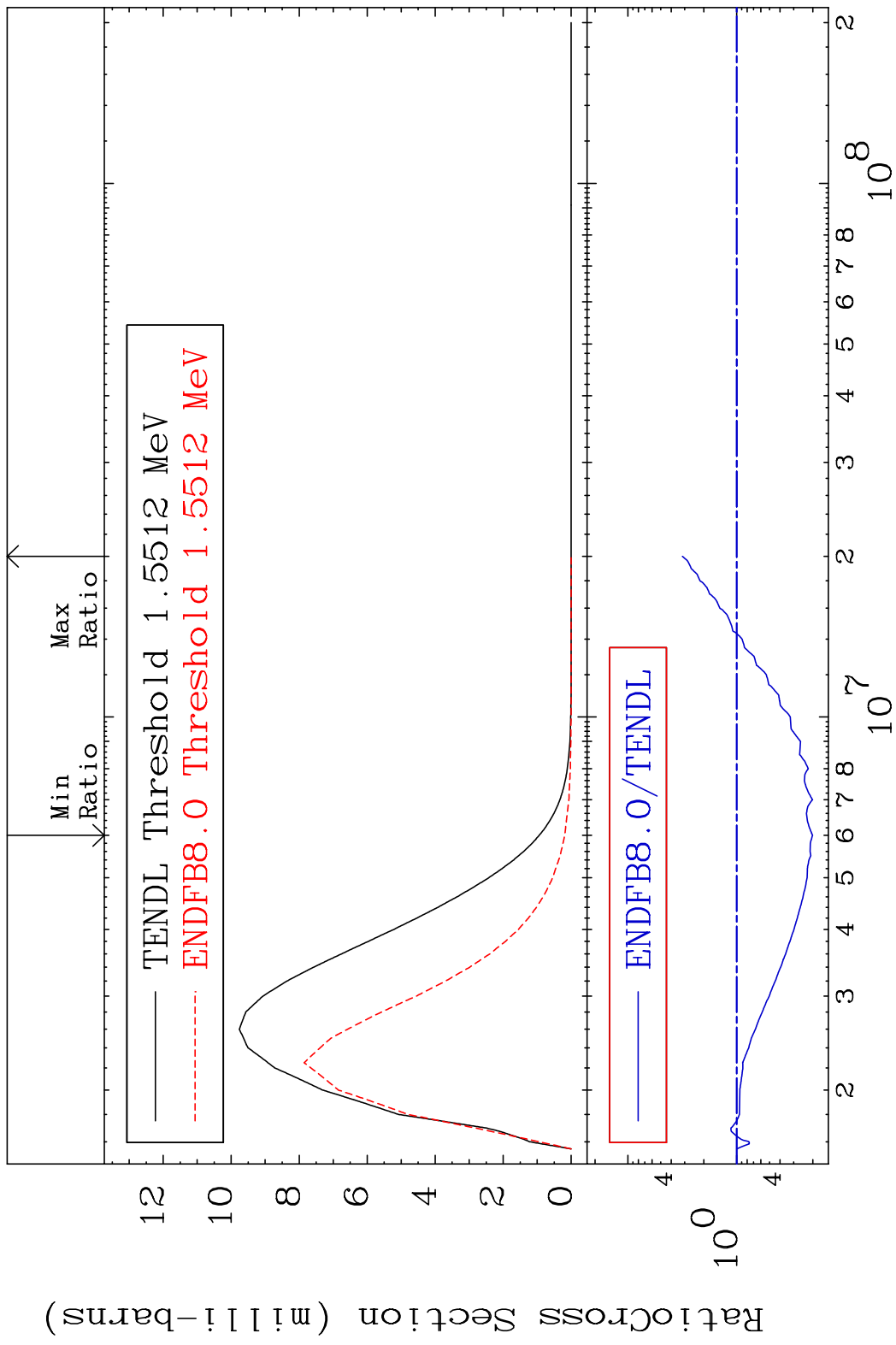
MAT 5259 MT= 71 (n, n') Level 52-Te-131m
 Cross Section -67.45 To 363.1 %



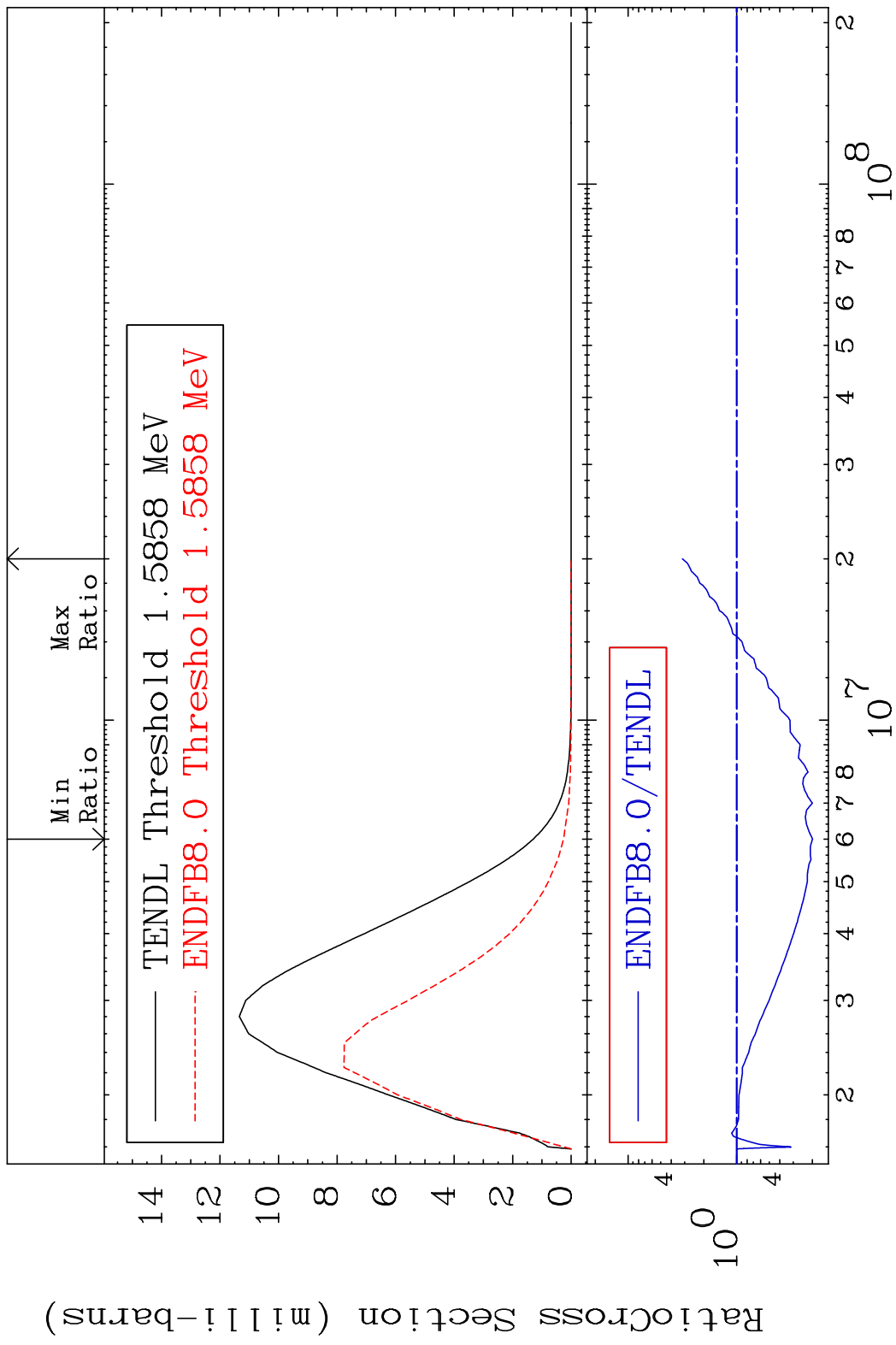
MAT 5259 MT= 72 (n,n') Level 52-Te-131m
 Cross Section -30.55 To 4916. %



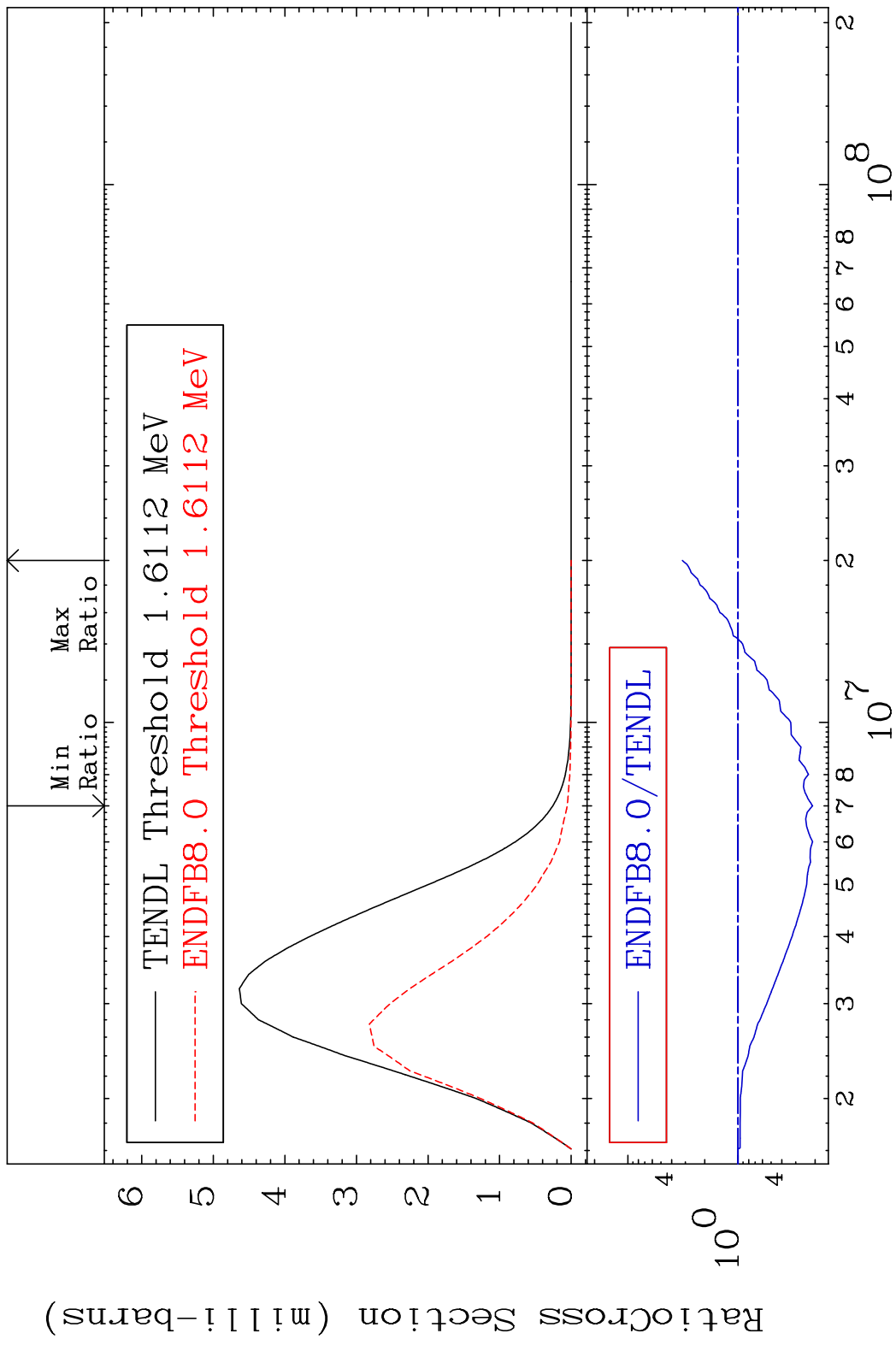
MAT 5259 MT= 73 (n, n') Level 52-Te-131m
 Cross Section -79.91 To 215.7 %



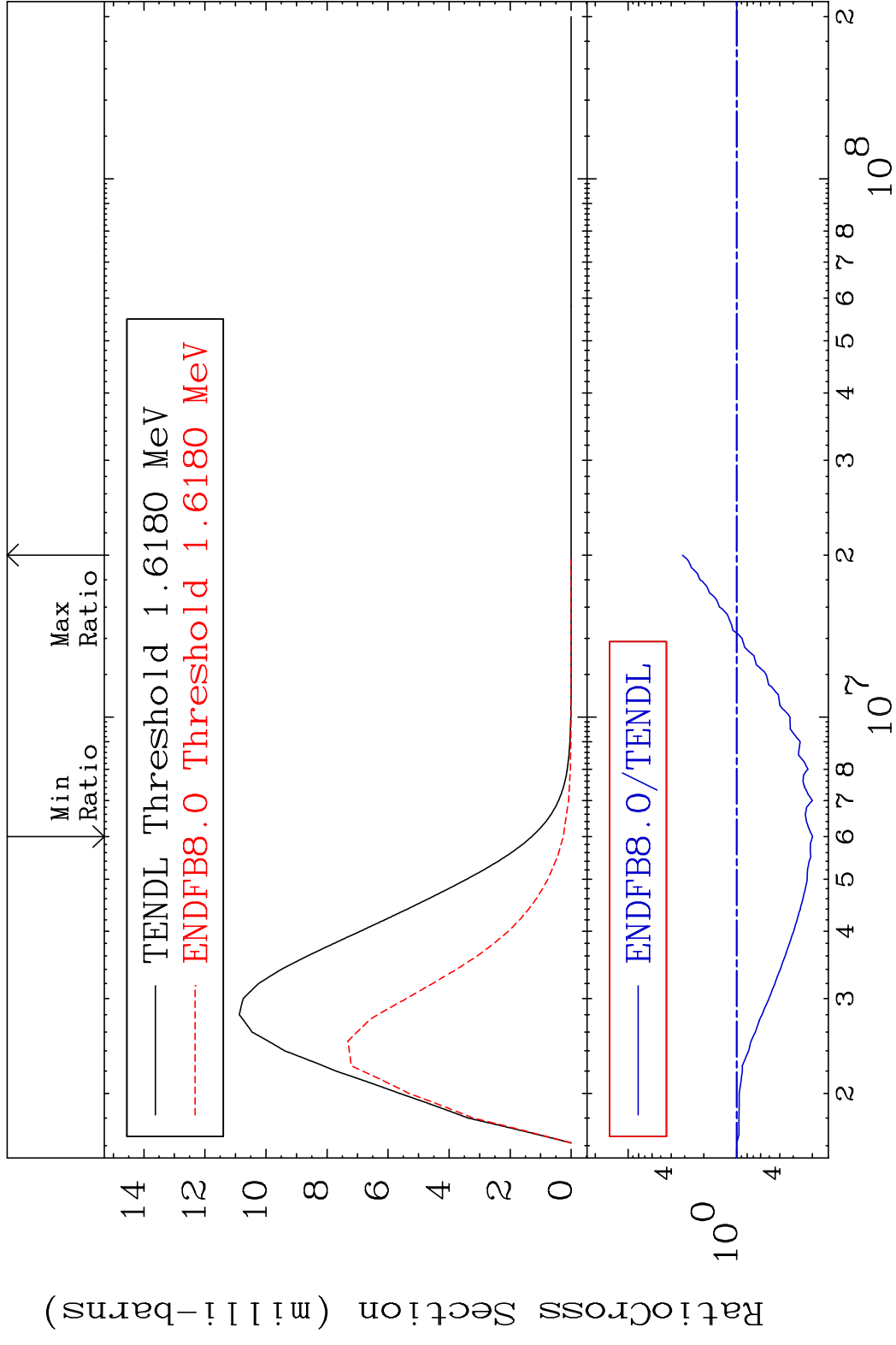
MAT 5259 MT= 74 (n, n') Level 52-Te-131m
 Cross Section -80.06 To 215.8 %



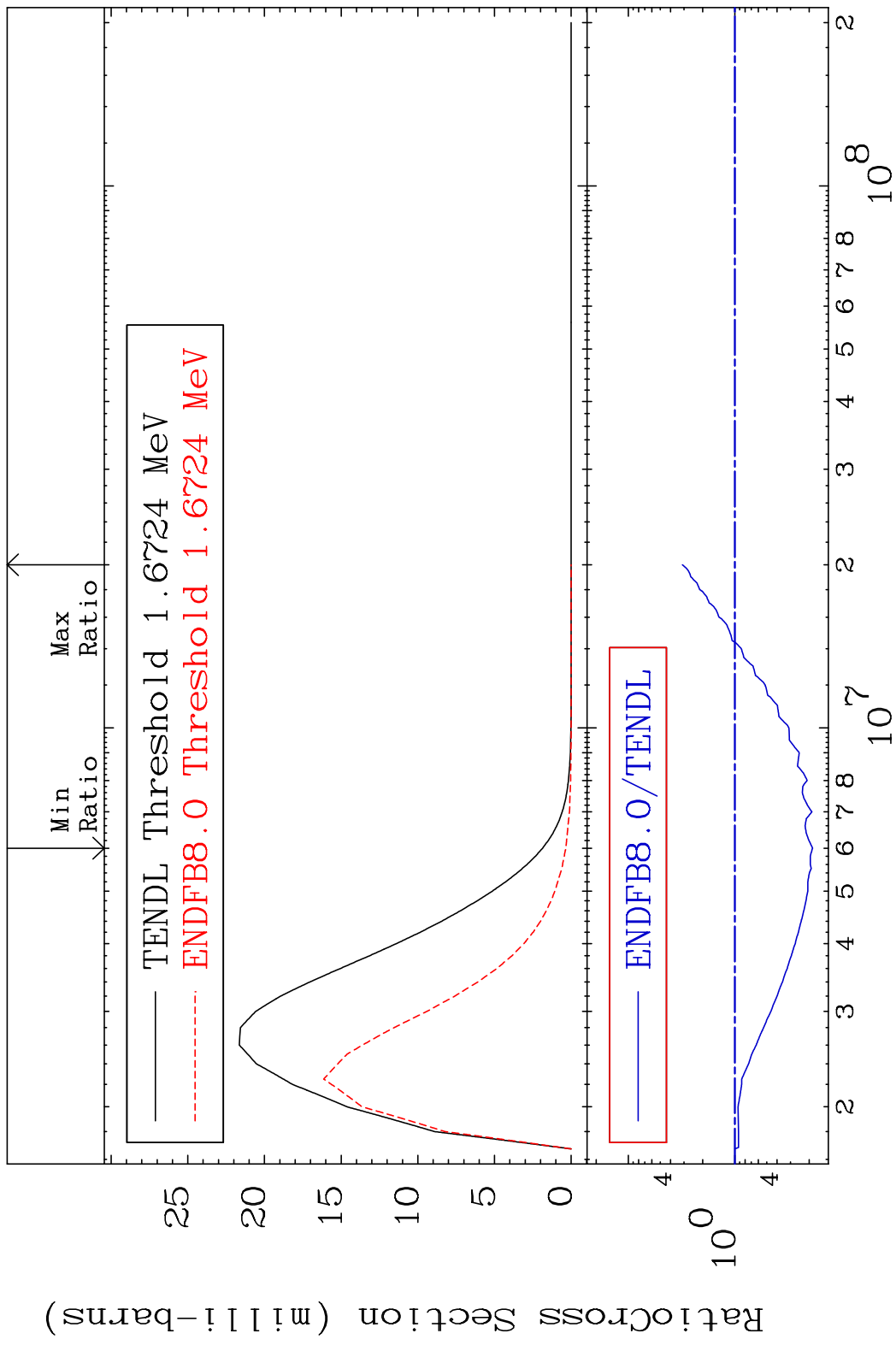
MAT 5259 MT= 75 (n, n') Level 52-Te-131m
 Cross Section -78.92 To 219.8 %



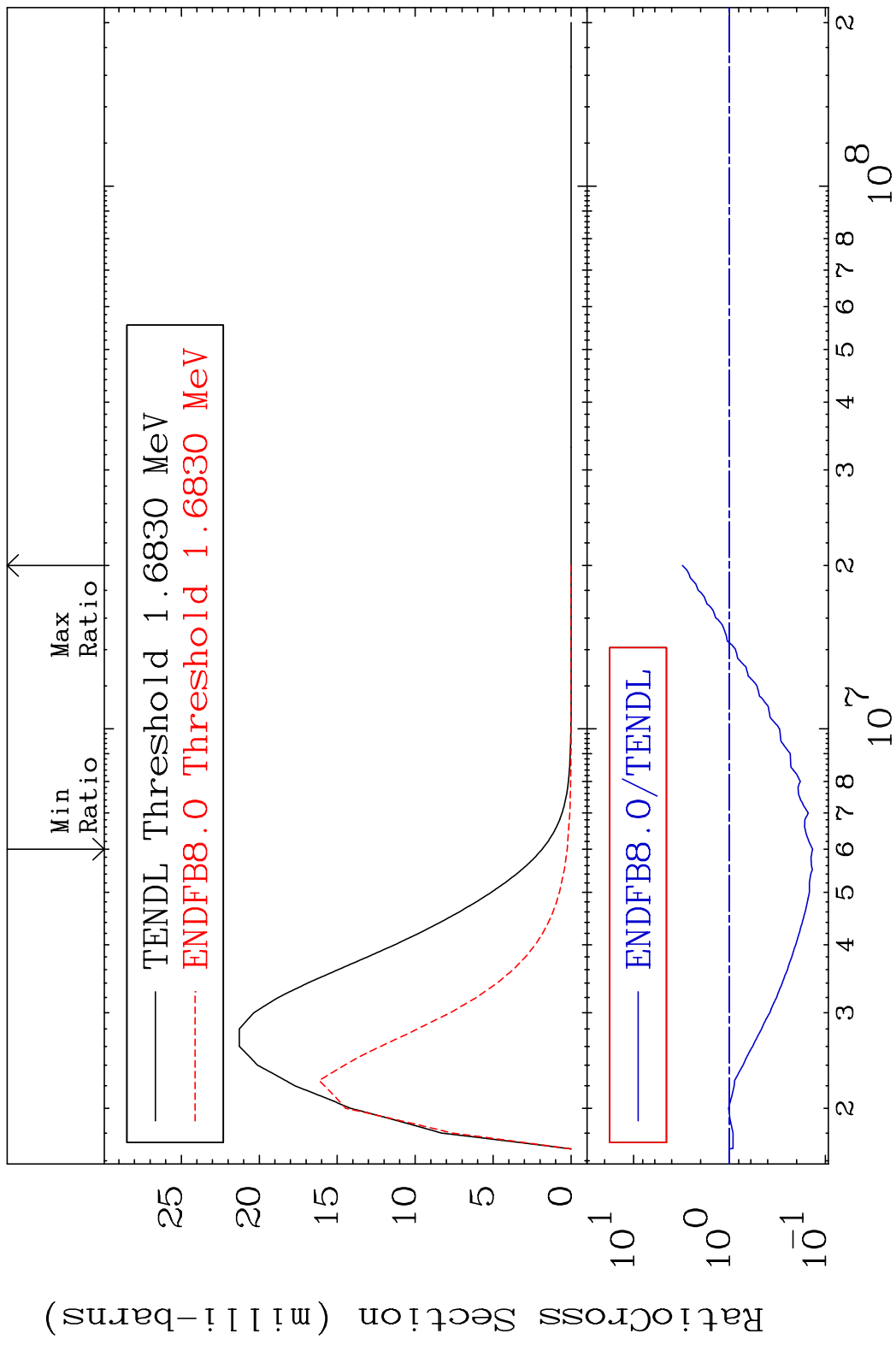
MAT 5259 MT= 76 (n, n') Level 52-Te-131m
 Cross Section -80.05 To 215.9 %



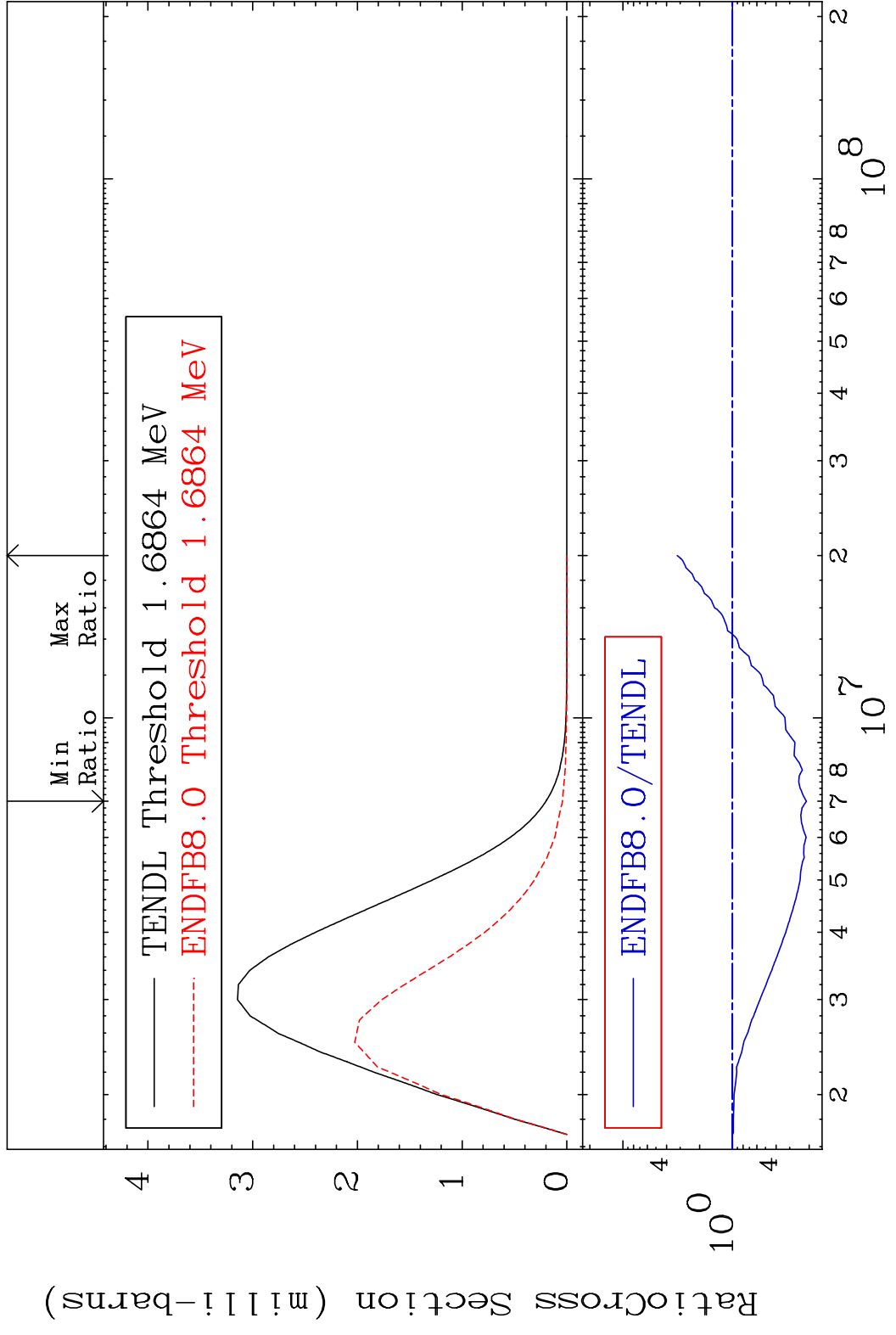
MAT 5259 MT= 77 (n,n') Level 52-Te-131m
 Cross Section -81.41 To 210.4 %



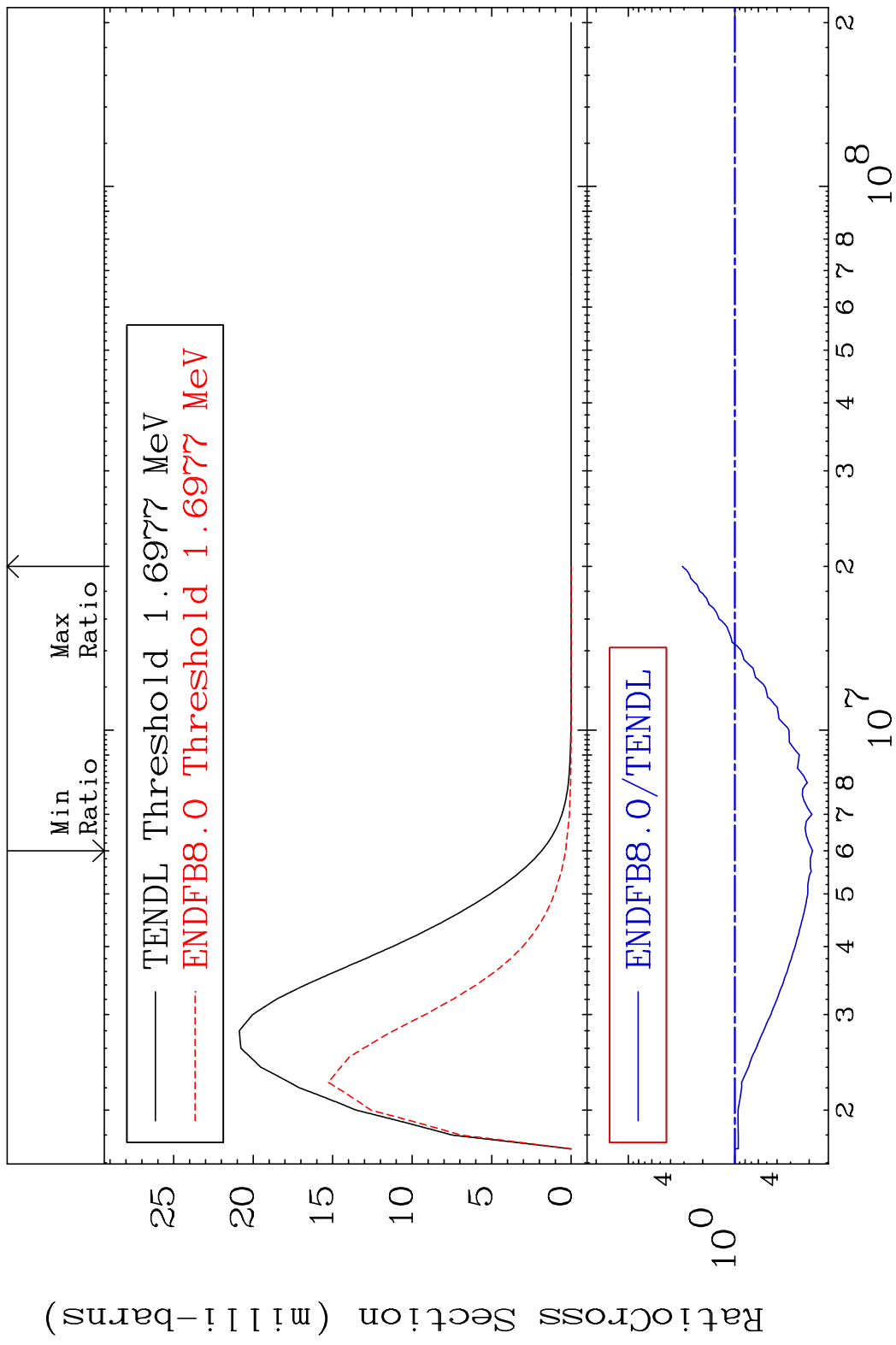
MAT 5259 MT= 78 (n, n') Level 52-Te-131m
 Cross Section -86.38 To 209.8 %



MAT 5259 MT= 79 (n, n') Level 52-Te-131m
 Cross Section -78.83 To 219.8 %



MAT 5259 MT= 80 (n, n') Level 52-Te-131m
 Cross Section -81.40 To 210.4 %



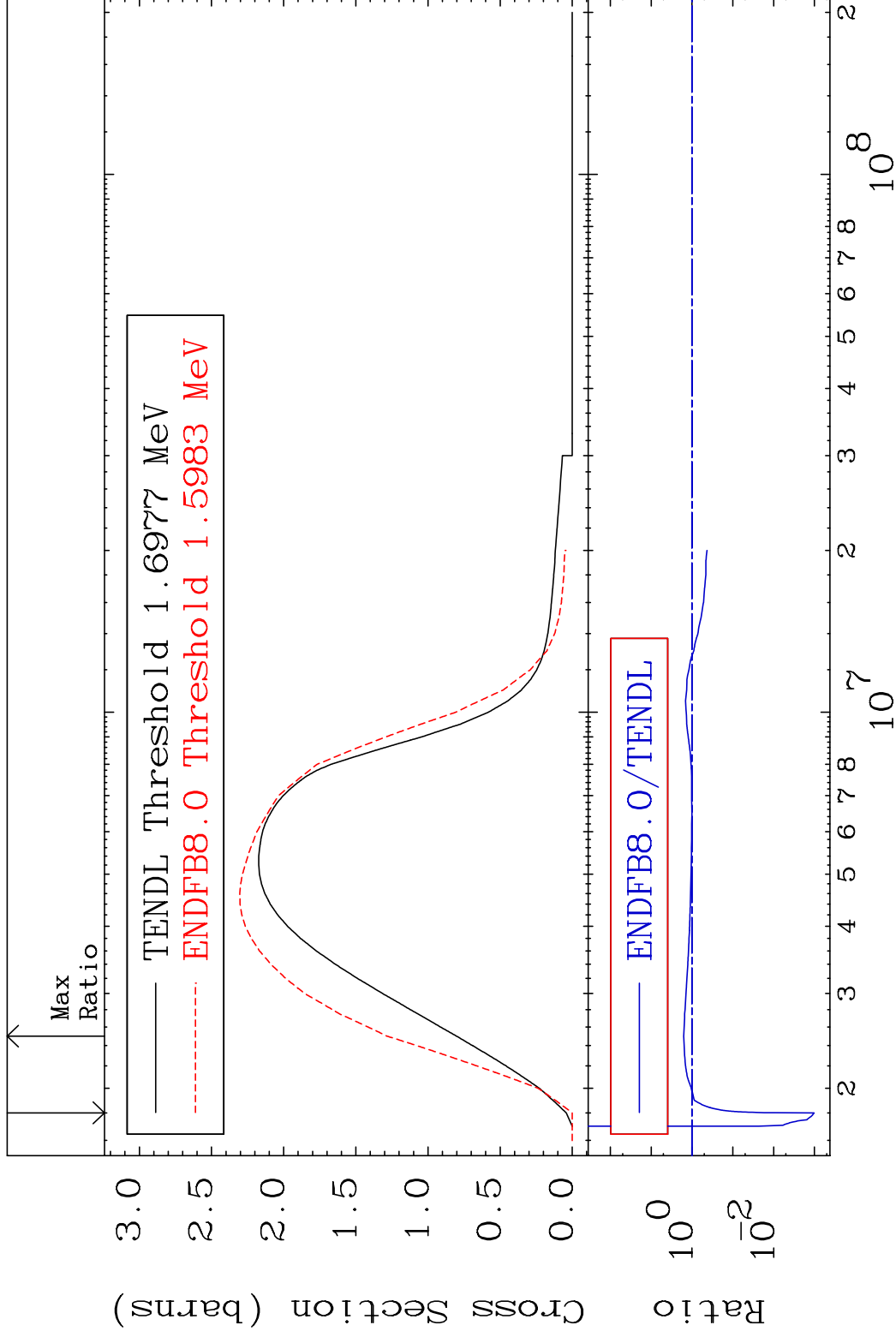
MAT 5259

(n, n') Continuum

52-Te-131m

Cross Section

-99.90 To 60.04 %



35

Incident Energy (eV)

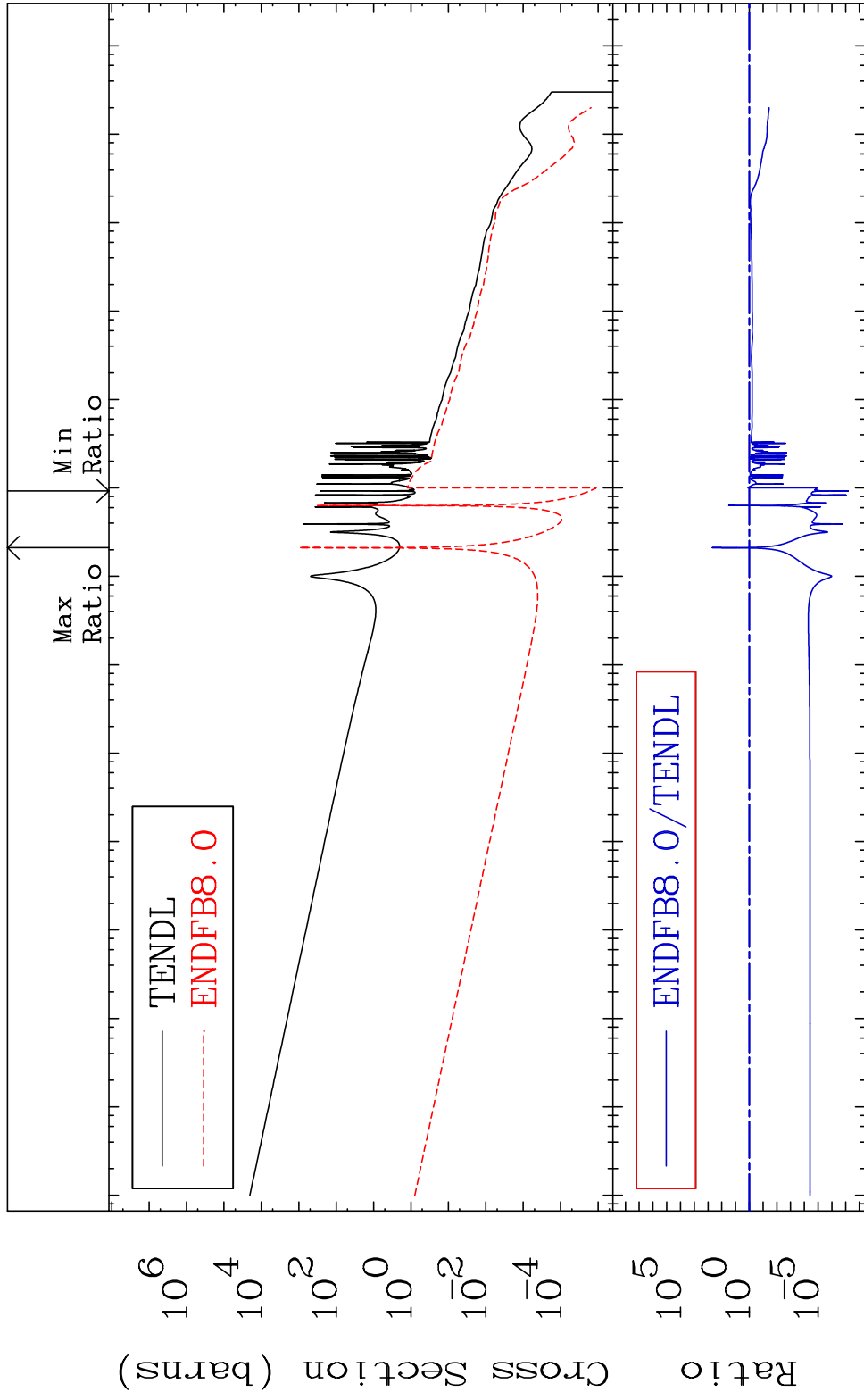
52-Te-131m

MAT 5259

(n, γ)

52-Te-131m

Cross Section -100.0 To 9999. %



36

Incident Energy (eV)

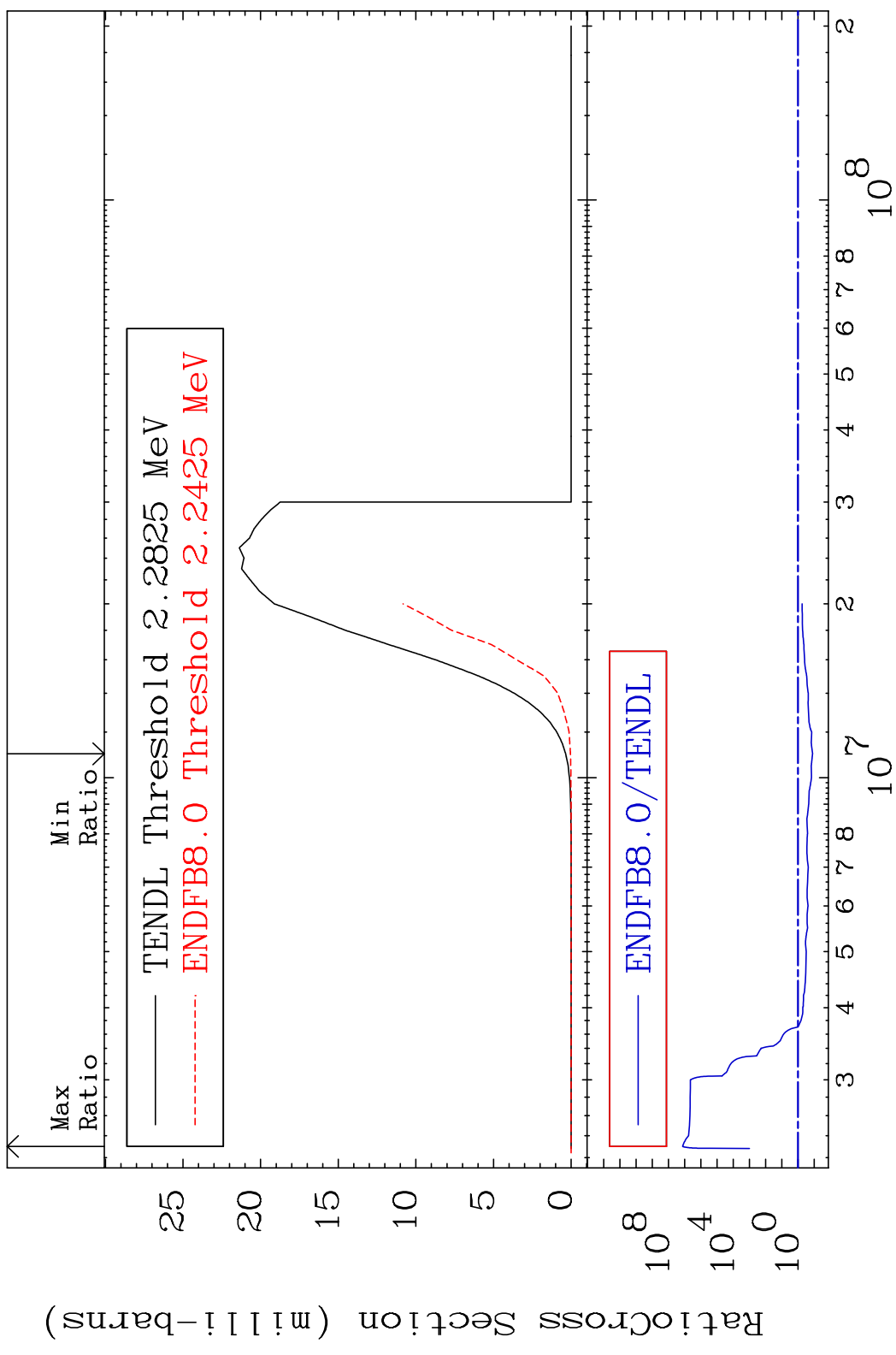
52-Te-131m

MAT 5259

(n, p)

52-Te-131m

Cross Section -87.19 To 9999. %

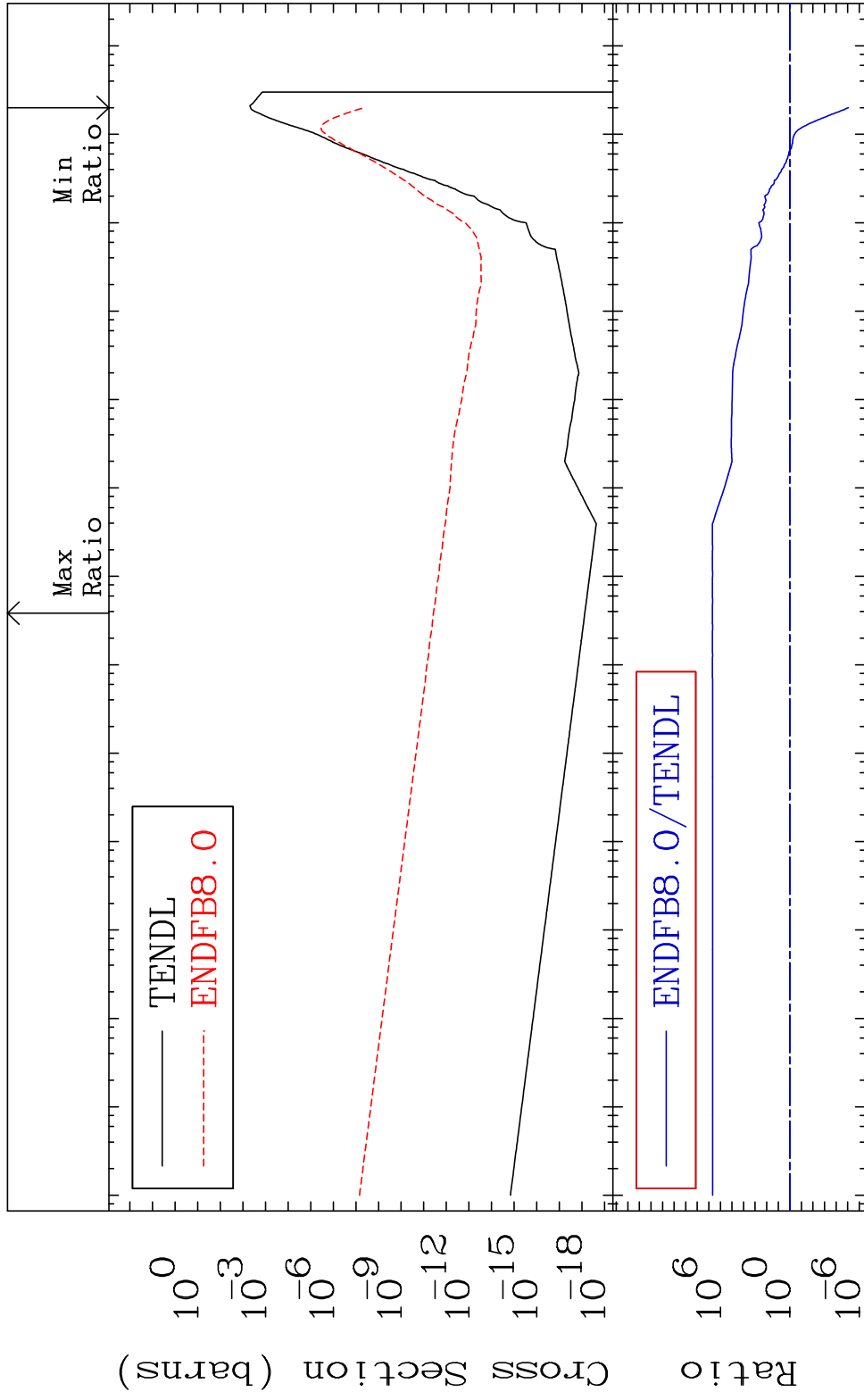


MAT 5259

52-Te-131m

(n, α)

Cross Section -100.0 To 9999. %



38

Incident Energy (eV)

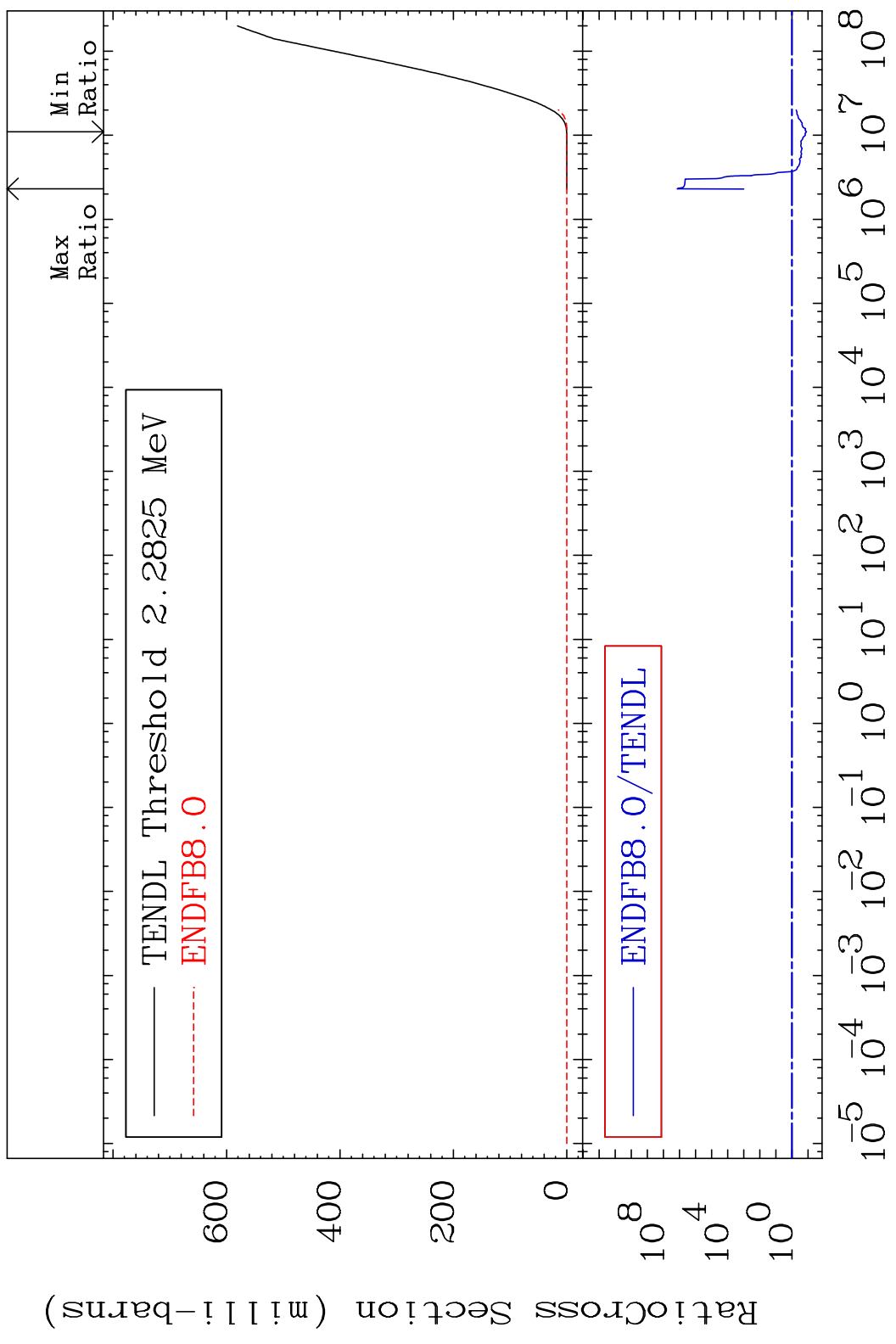
52-Te-131m

MAT 5259

Hydrogen Production

52-Te-131m

Cross Section -87.19 To 9999. %



39

Incident Energy (eV)

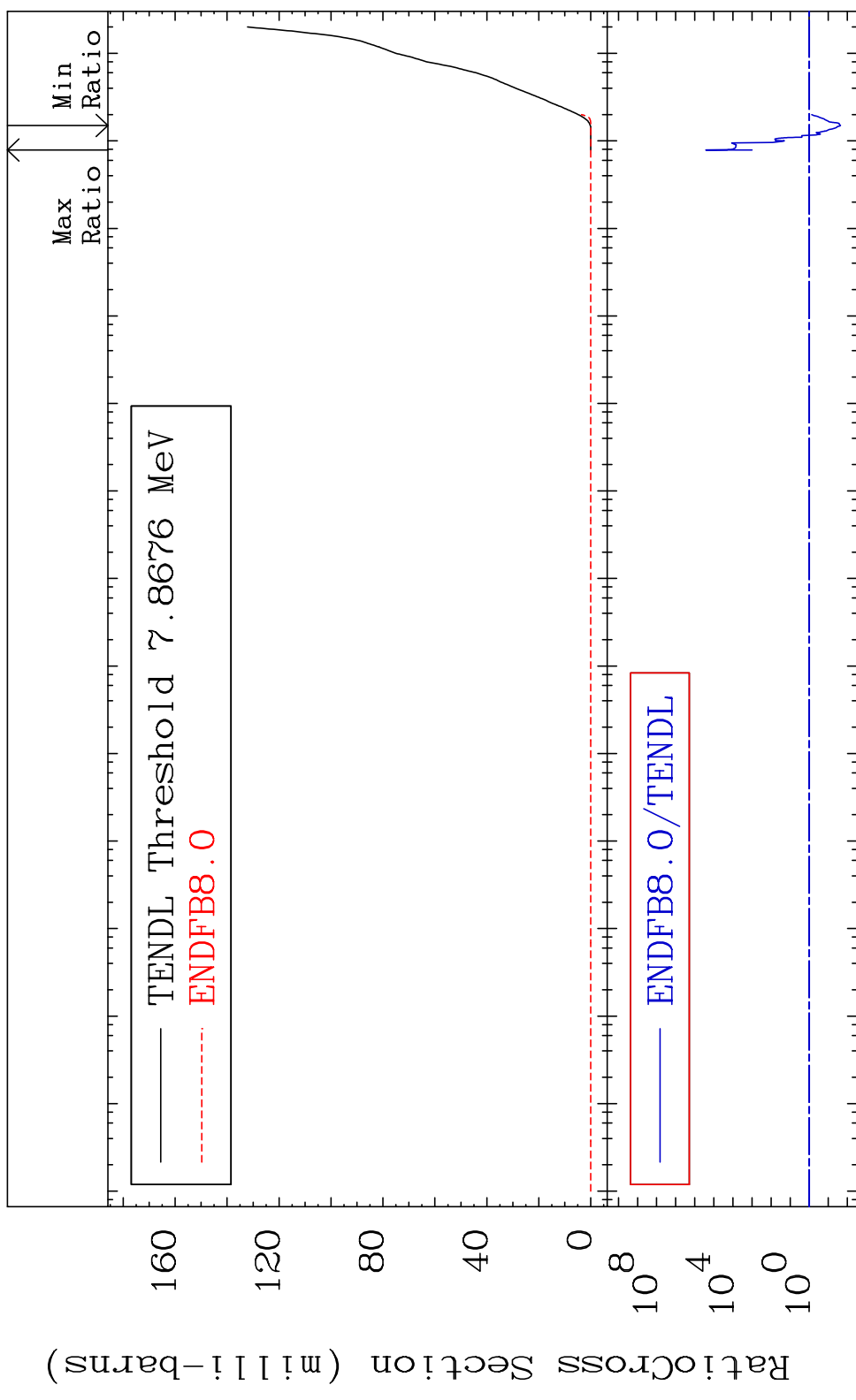
52-Te-131m

MAT 5259

Deuterium Production

52-Te-131m

Cross Section -97.69 To 9999. %



40

Incident Energy (eV)

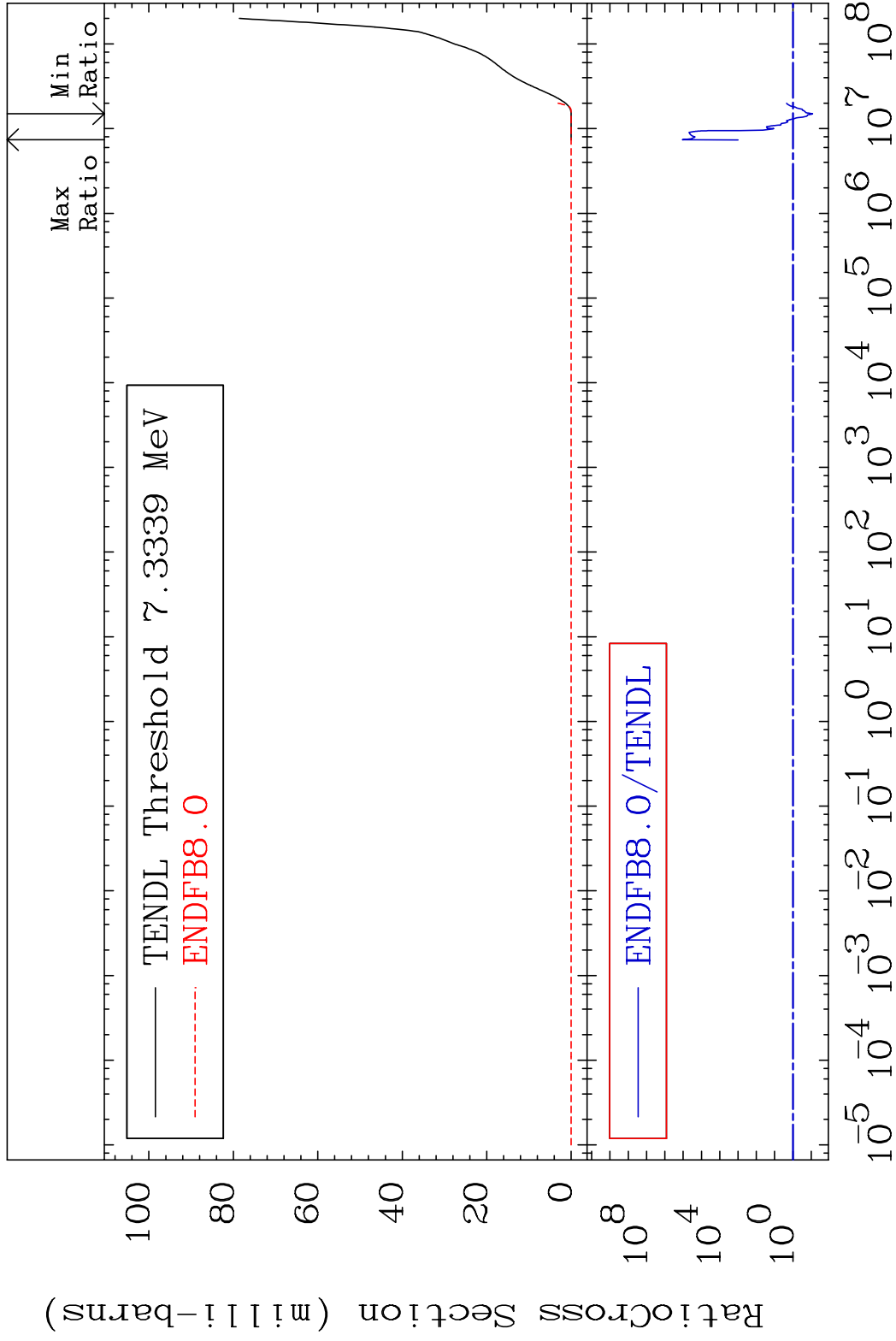
52-Te-131m

MAT 5259

Tritium Production

52-Te-131m

Cross Section -91.56 To 9999. %

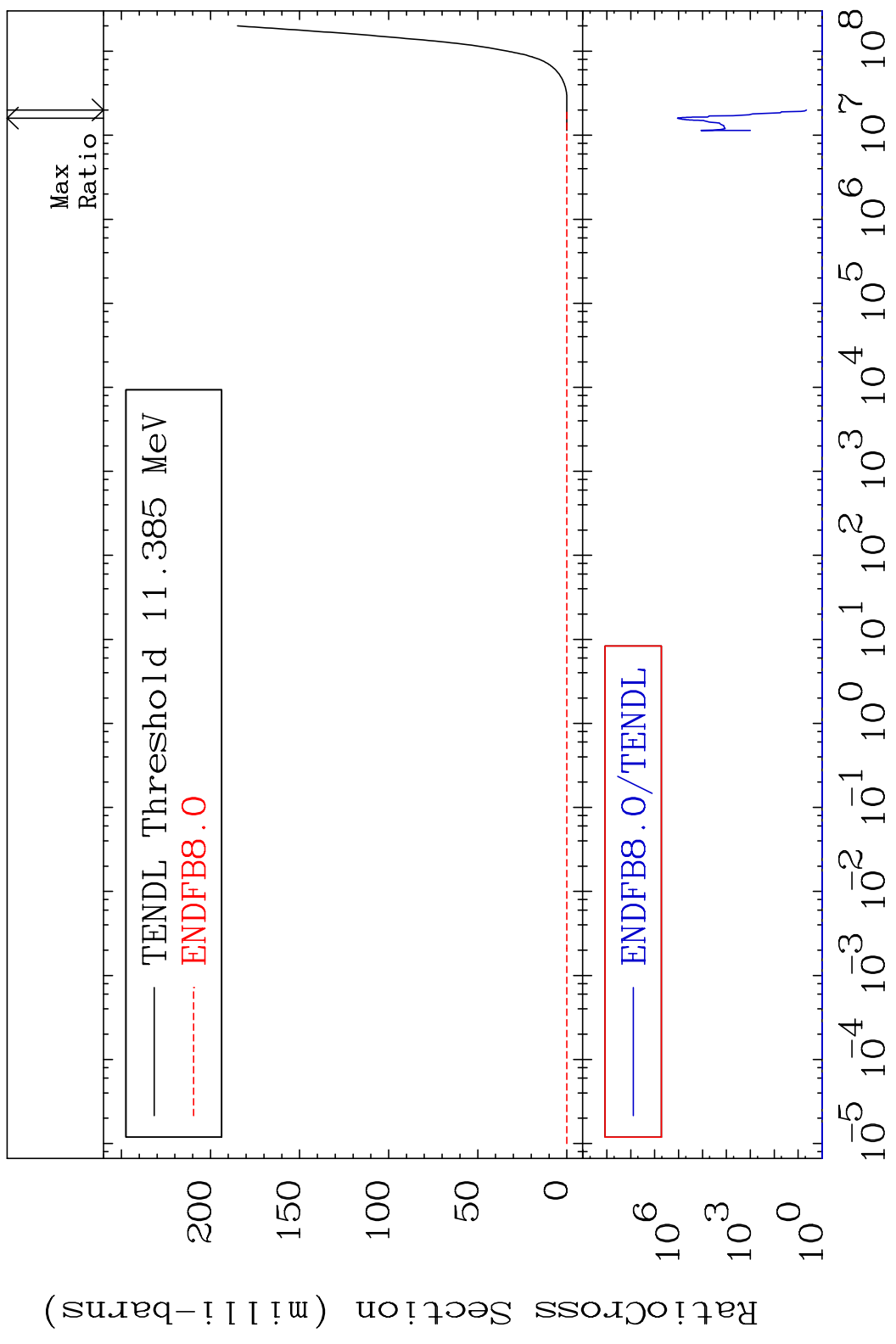


41

Incident Energy (eV)

52-Te-131m

MAT 5259 He-3 Production 52-Te-131m
 Cross Section 351.1 To 9999. %



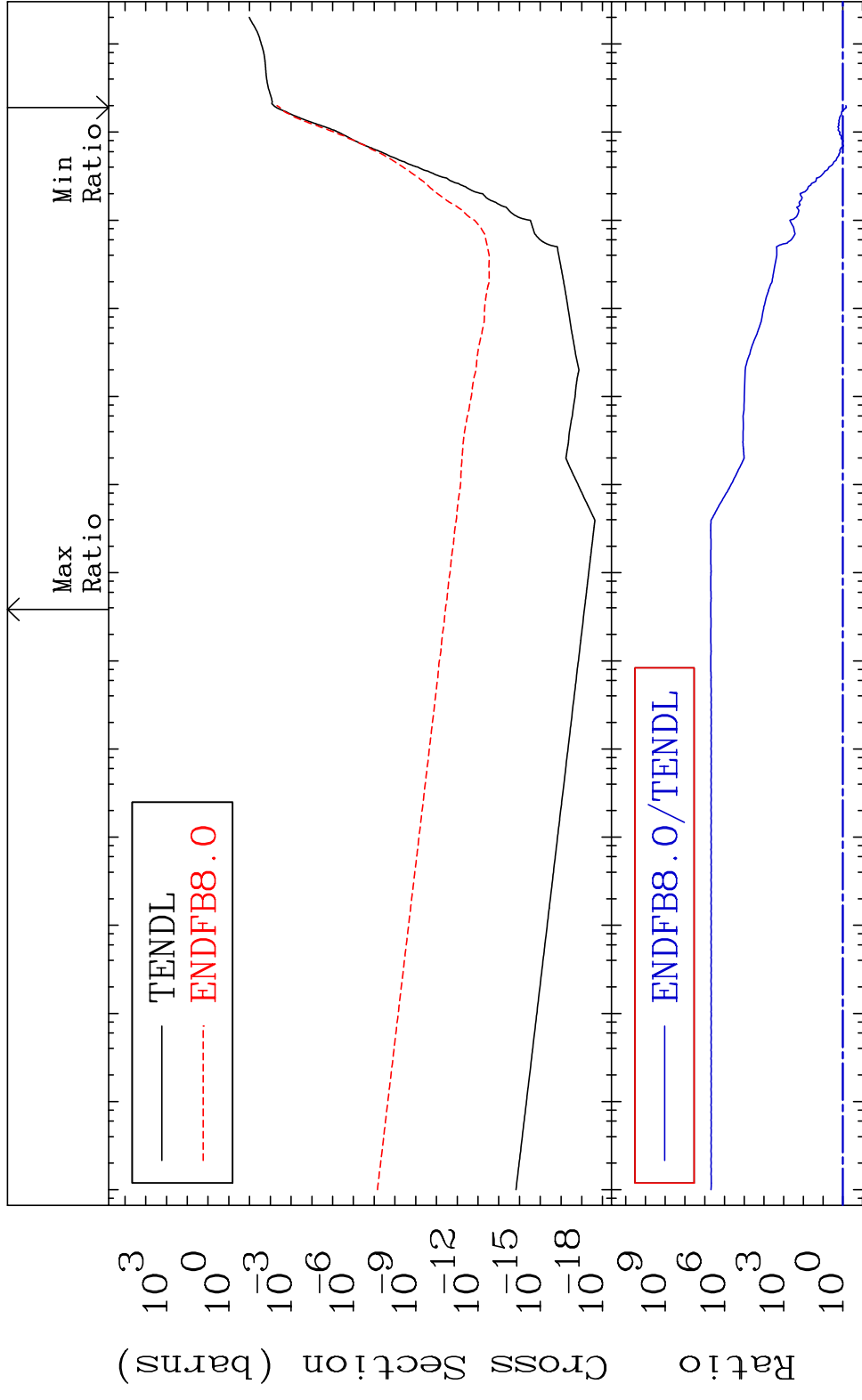
42 52-Te-131m

MAT 5259

He-4 Production

52-Te-131m

Cross Section -33.38 To 9999. %



Ratio

10³

10⁰

10⁻³

10⁻⁶

10⁻⁹

10⁻¹²

10⁻¹⁵

10⁻¹⁸

10⁹

10⁶

10³

10⁰

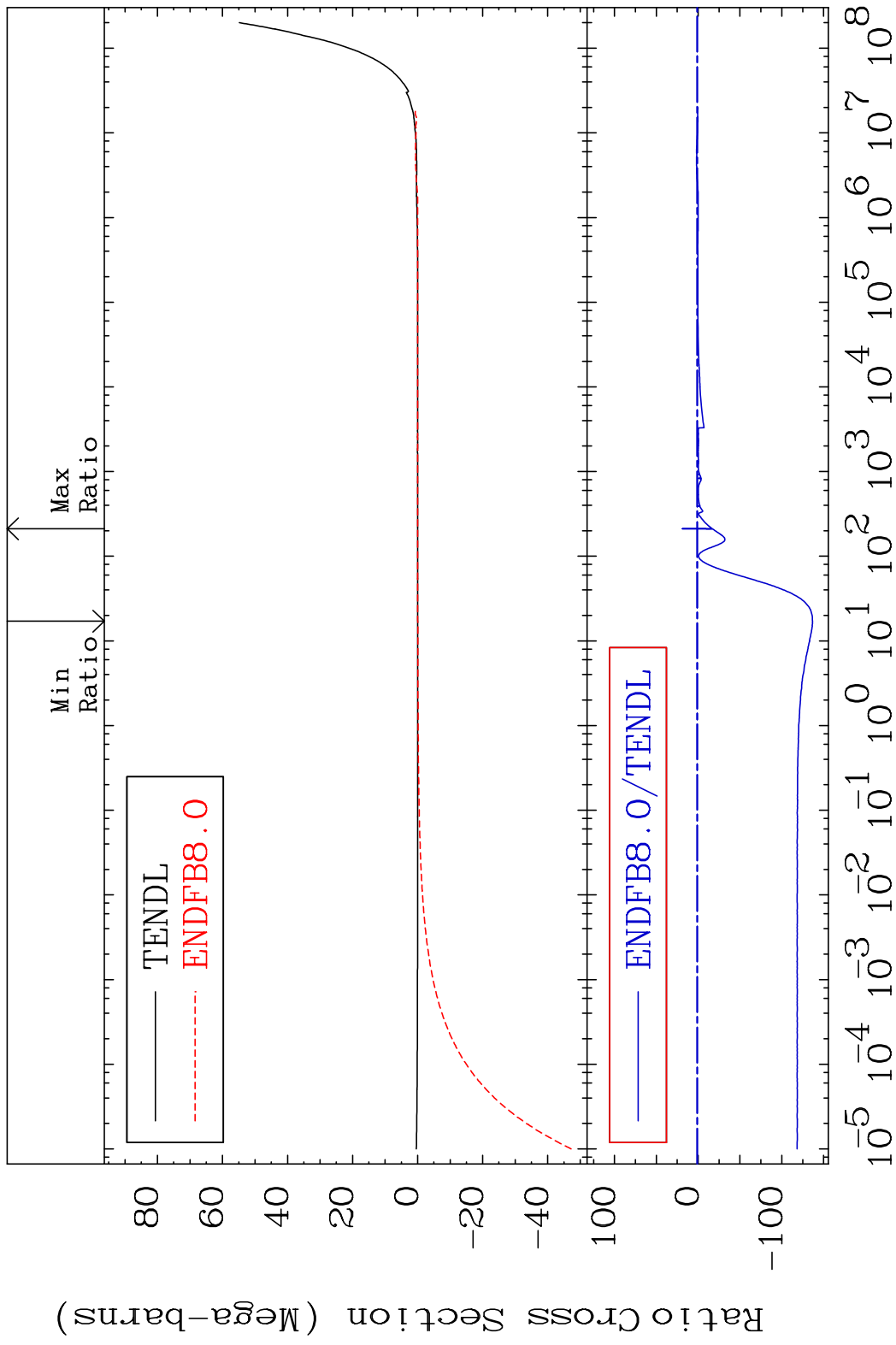
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

43

Incident Energy (eV)

52-Te-131m

MAT 5259 Kerma total (eV-barns) 52-Te-131m
 Cross Section -9999. To 1788. %

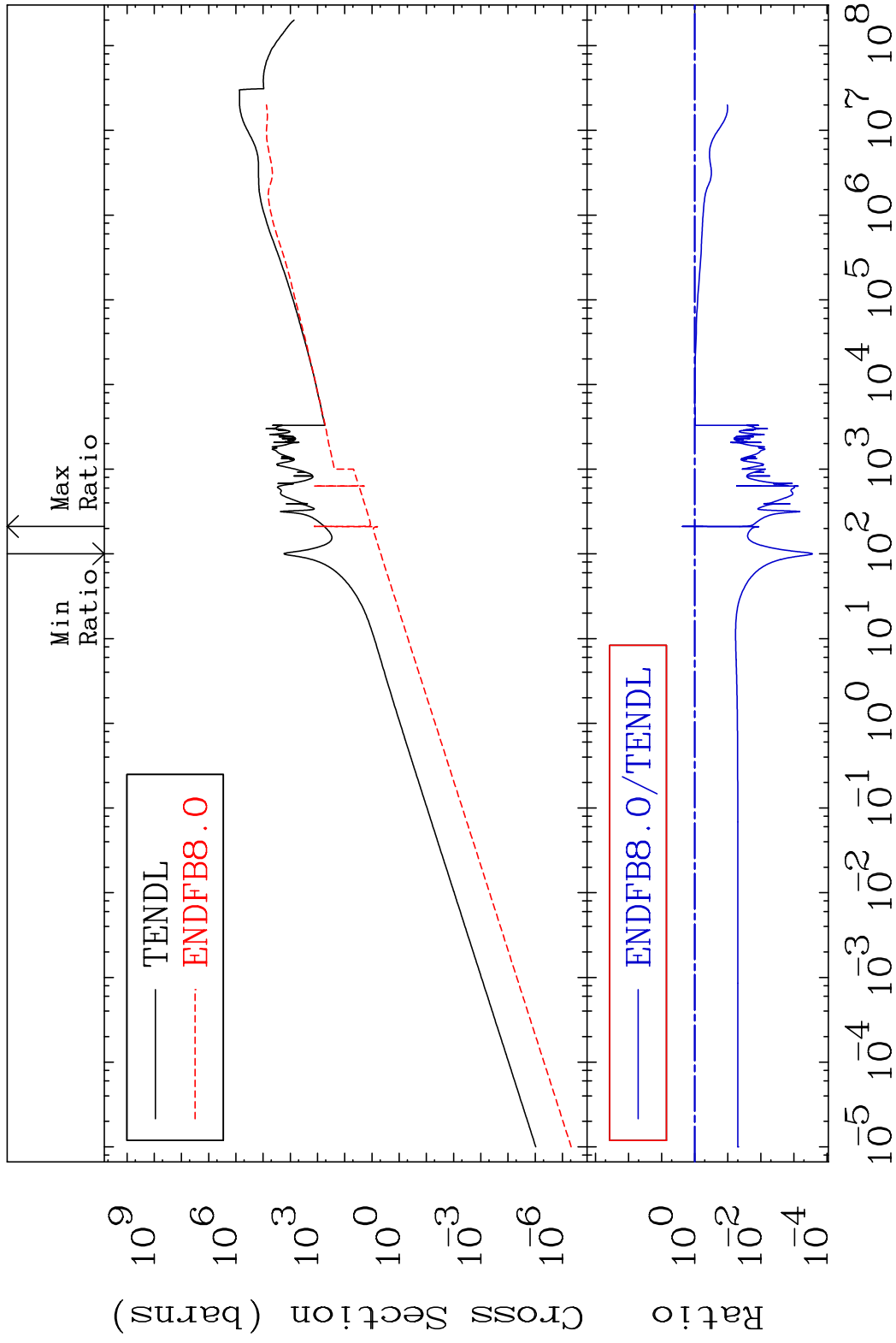


44 Incident Energy (eV) 52-Te-131m

MAT 5259

Kerma elastic
Cross Section

52-Te-131m
-99.97 To 137.3 %

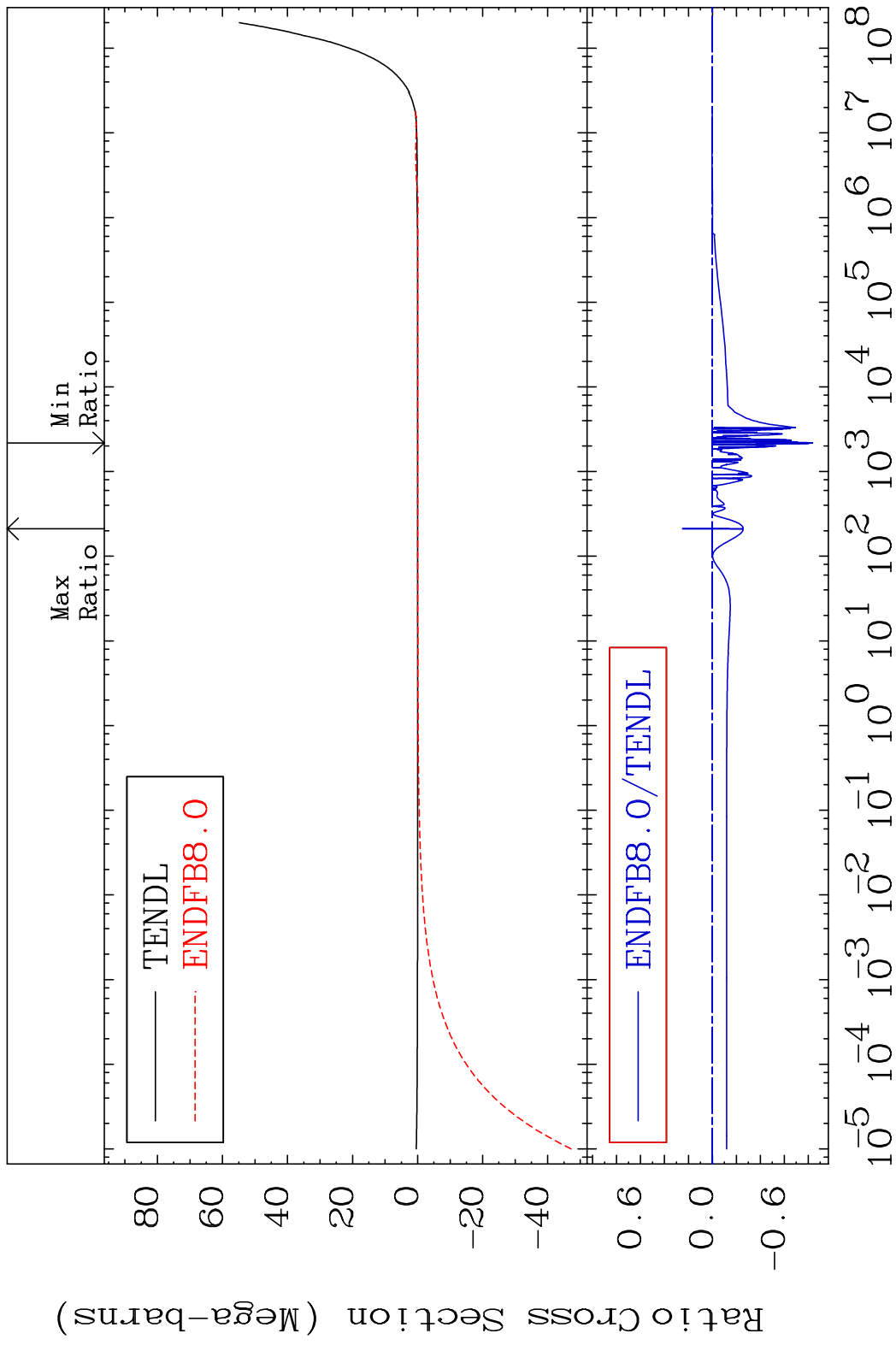


45

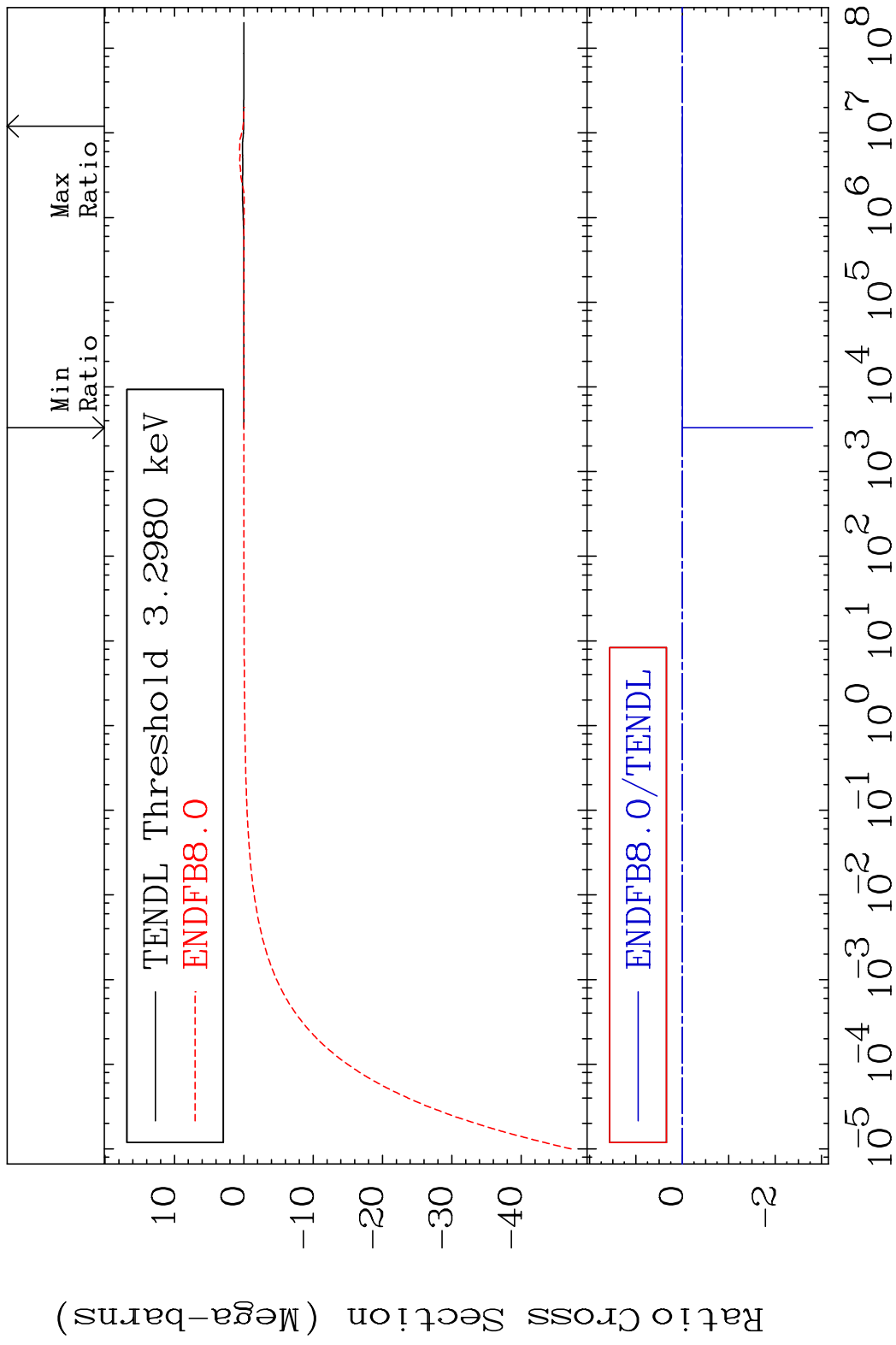
Incident Energy (eV)

52-Te-131m

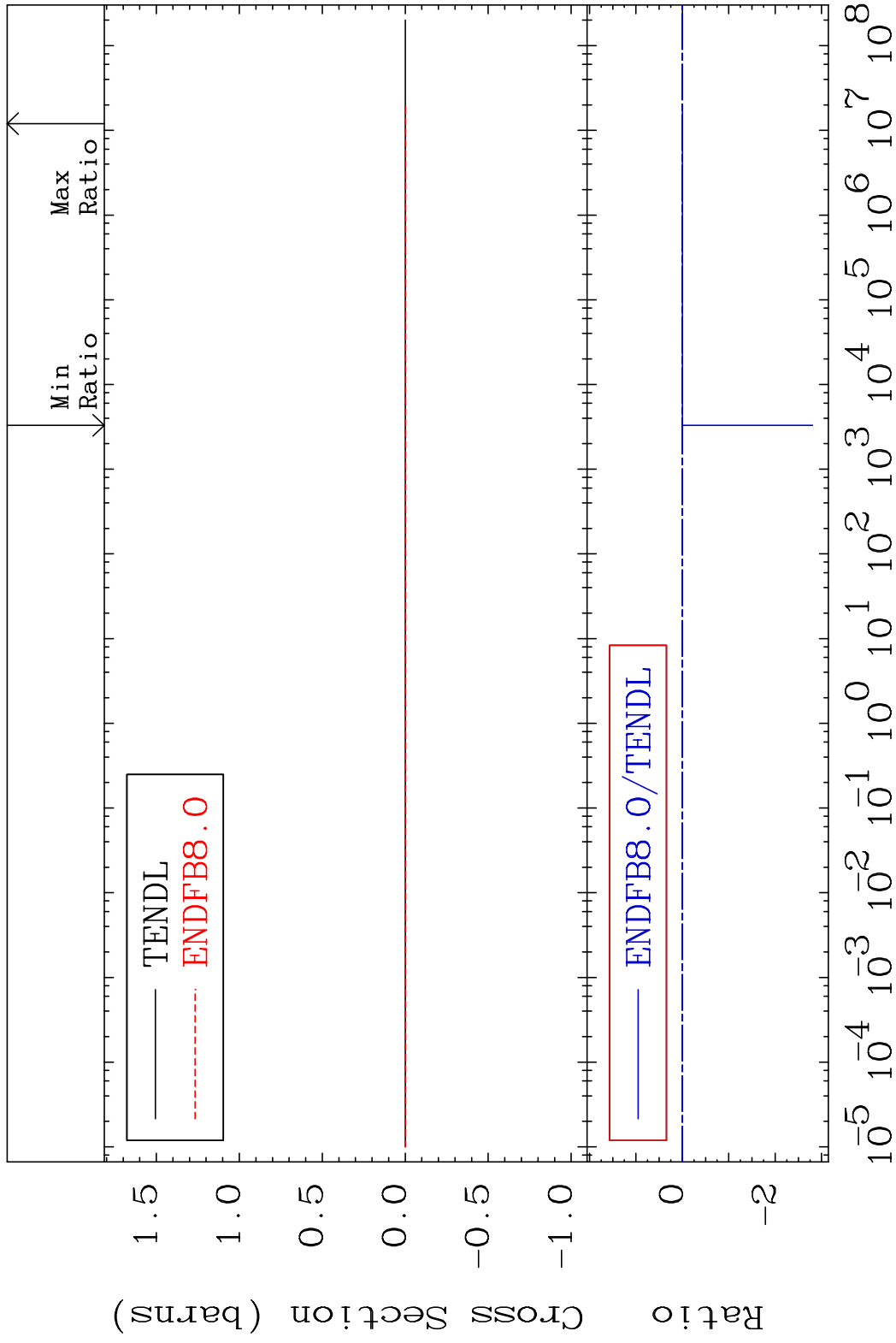
MAT 5259 Kerma non-elastic (all but mt2) 52-Te-131m
 Cross Section -9999. To 9999. %



MAT 5259 Kerma inelastic (mt51-91) 52-Te-131m
 Cross Section -9999. To 507.1 %



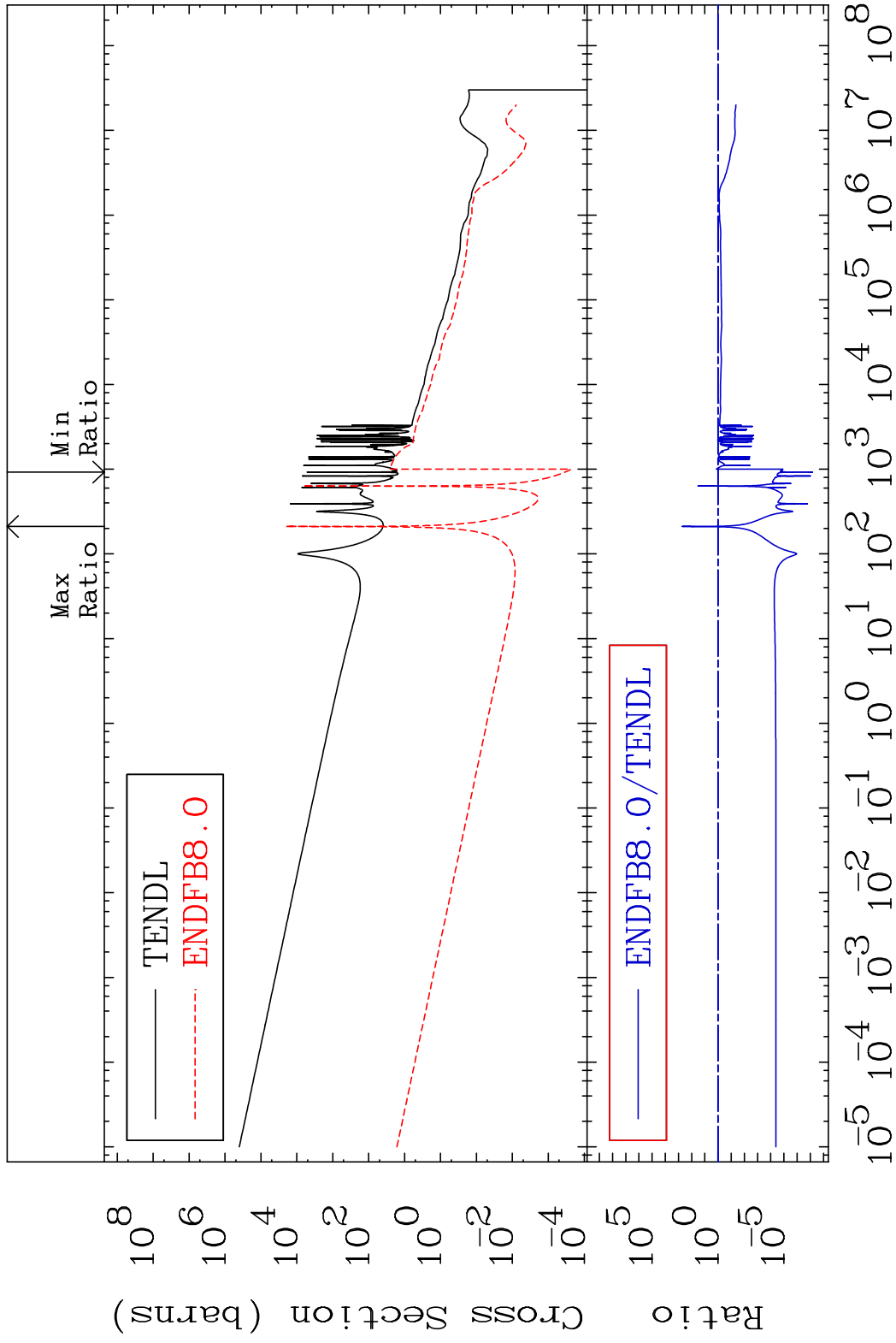
MAT 5259 Kerma fission (mt18 or mt19-20-21-35) Te-131m
 Cross Section -9999. To 507.1 %



MAT 5259

Kerma capture (mt102) 52-Te-131m

Cross Section -100.0 To 9999. %

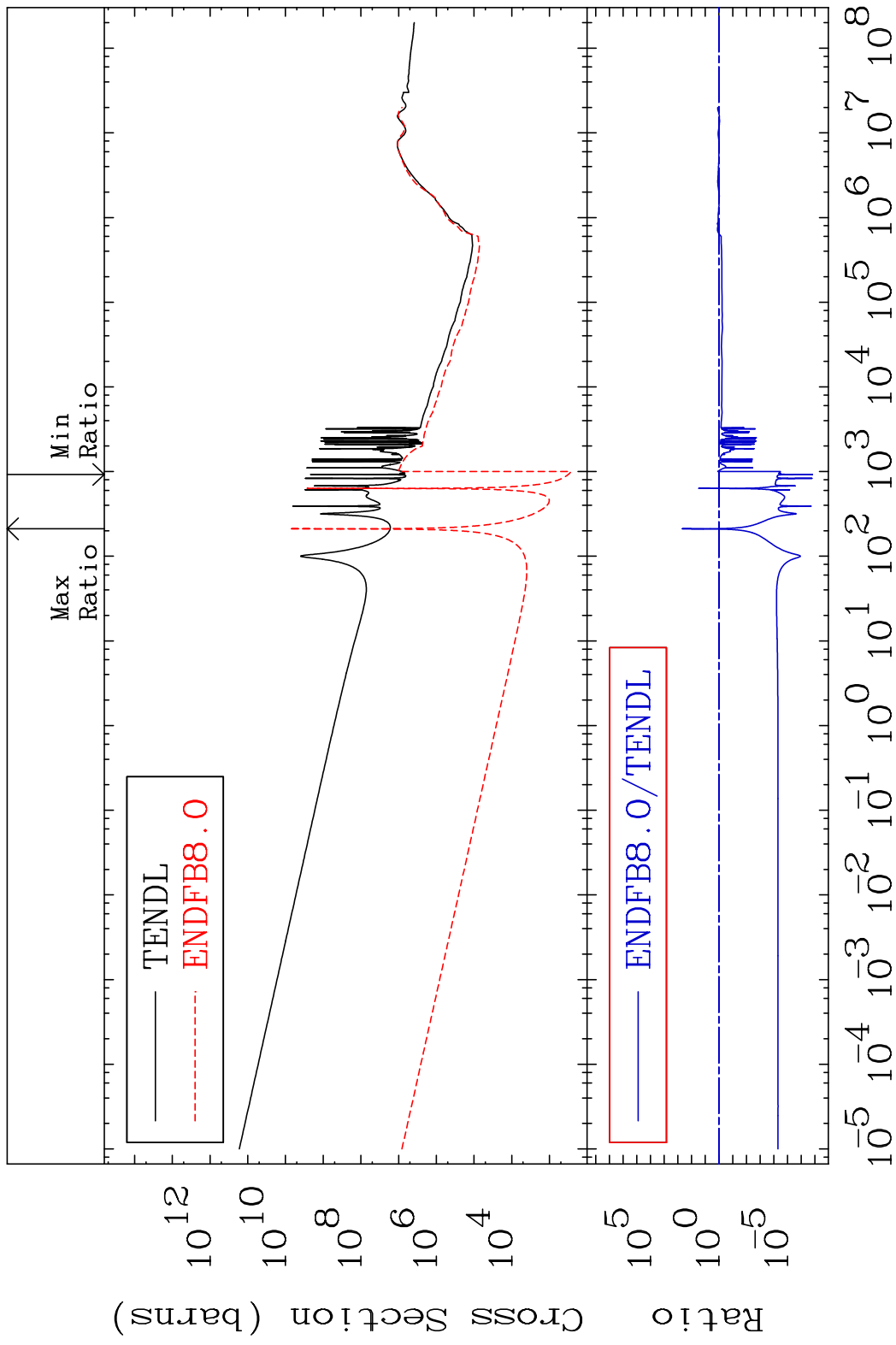


49

Incident Energy (eV)

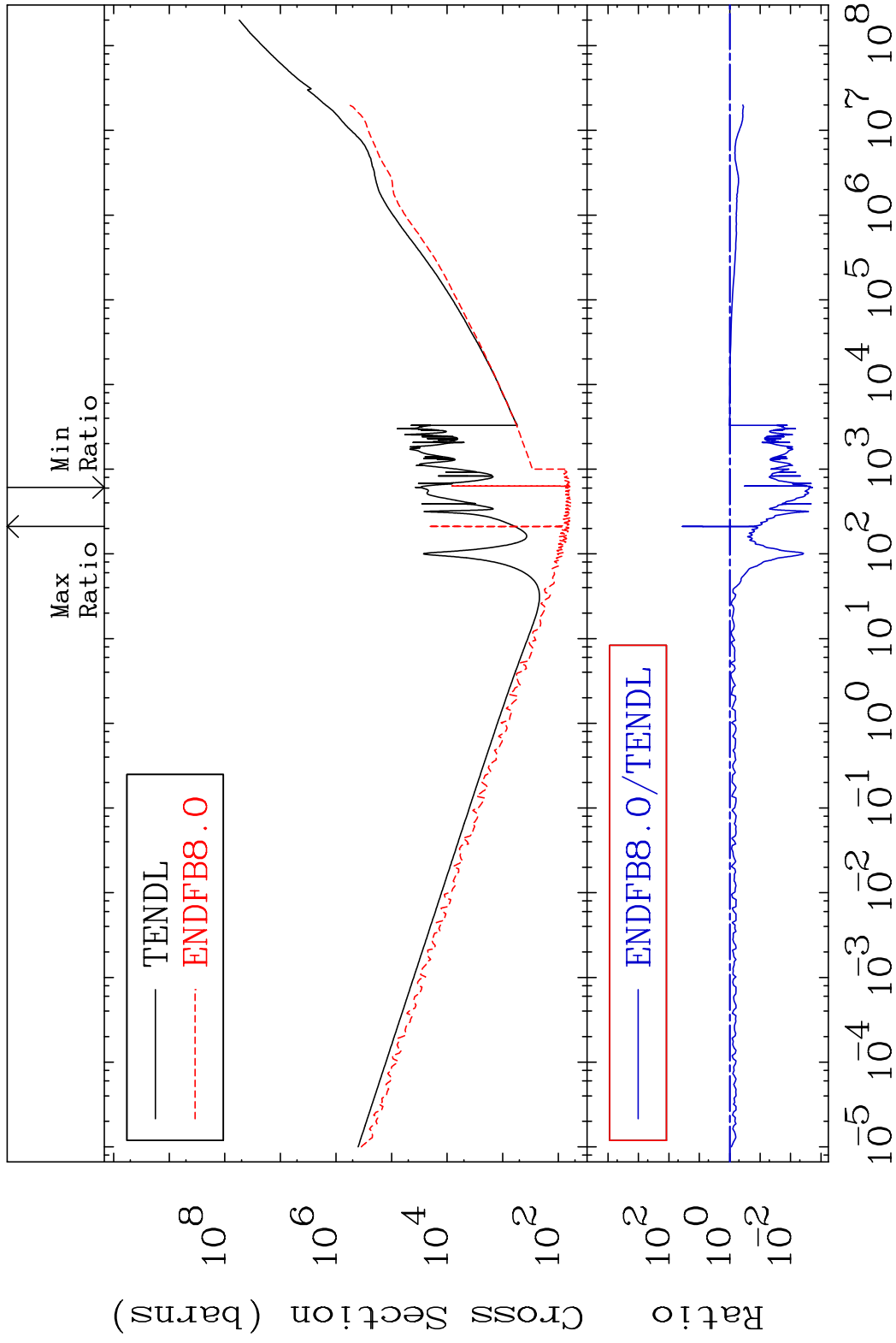
52-Te-131m

MAT 5259 Total photon (eV-barns) 52-Te-131m
Cross Section -100.0 To 9999. %

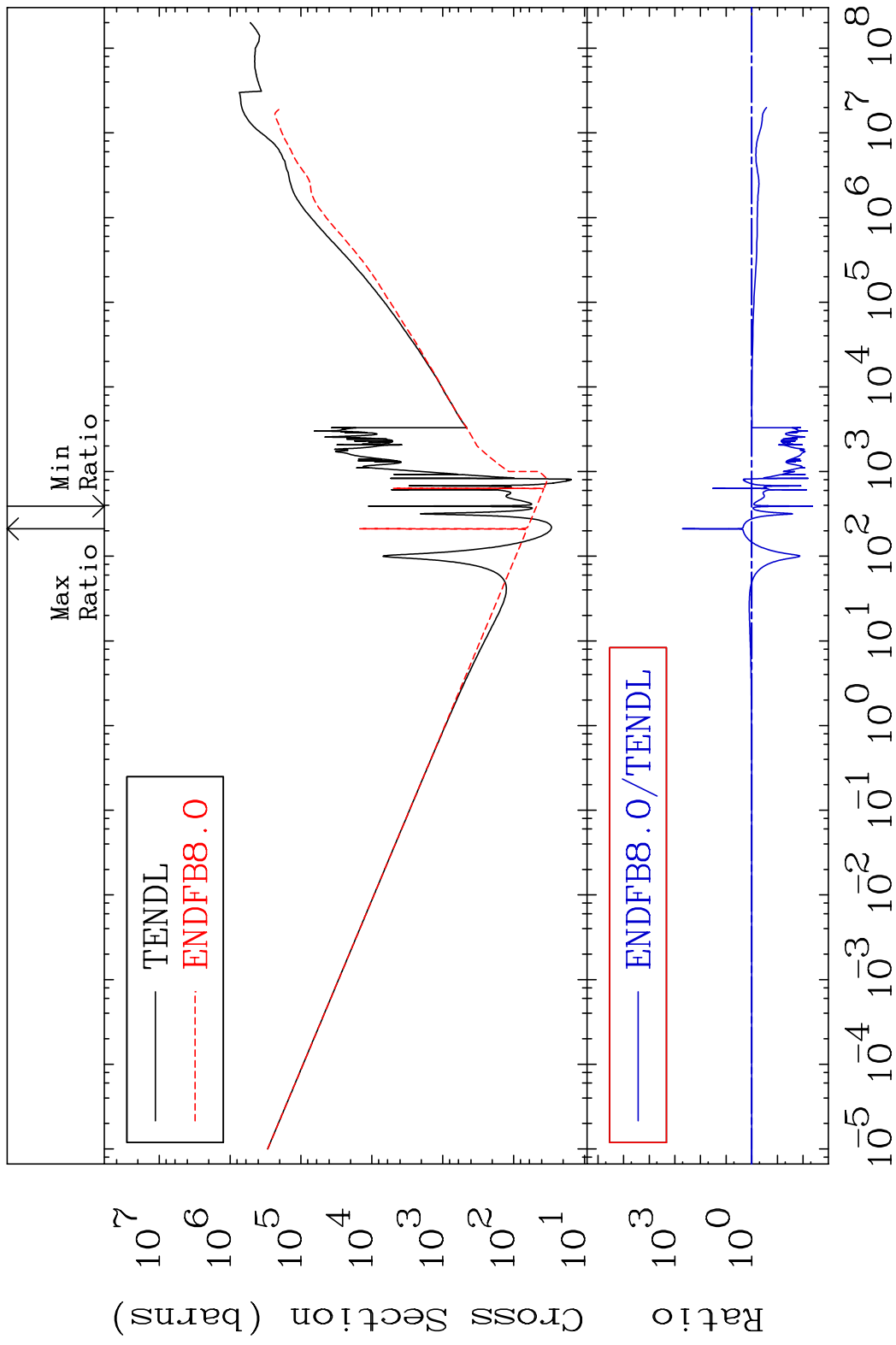


50 Incident Energy (eV) 52-Te-131m

MAT 5259 Total kinematic kerma (high limit)52-Te-131m
 Cross Section -99.81 To 3509. %



MAT 5259 Dpa total (eV-barns) 52-Te-131m
 Cross Section -99.57 To 9999. %



52 Incident Energy (eV) 52-Te-131m

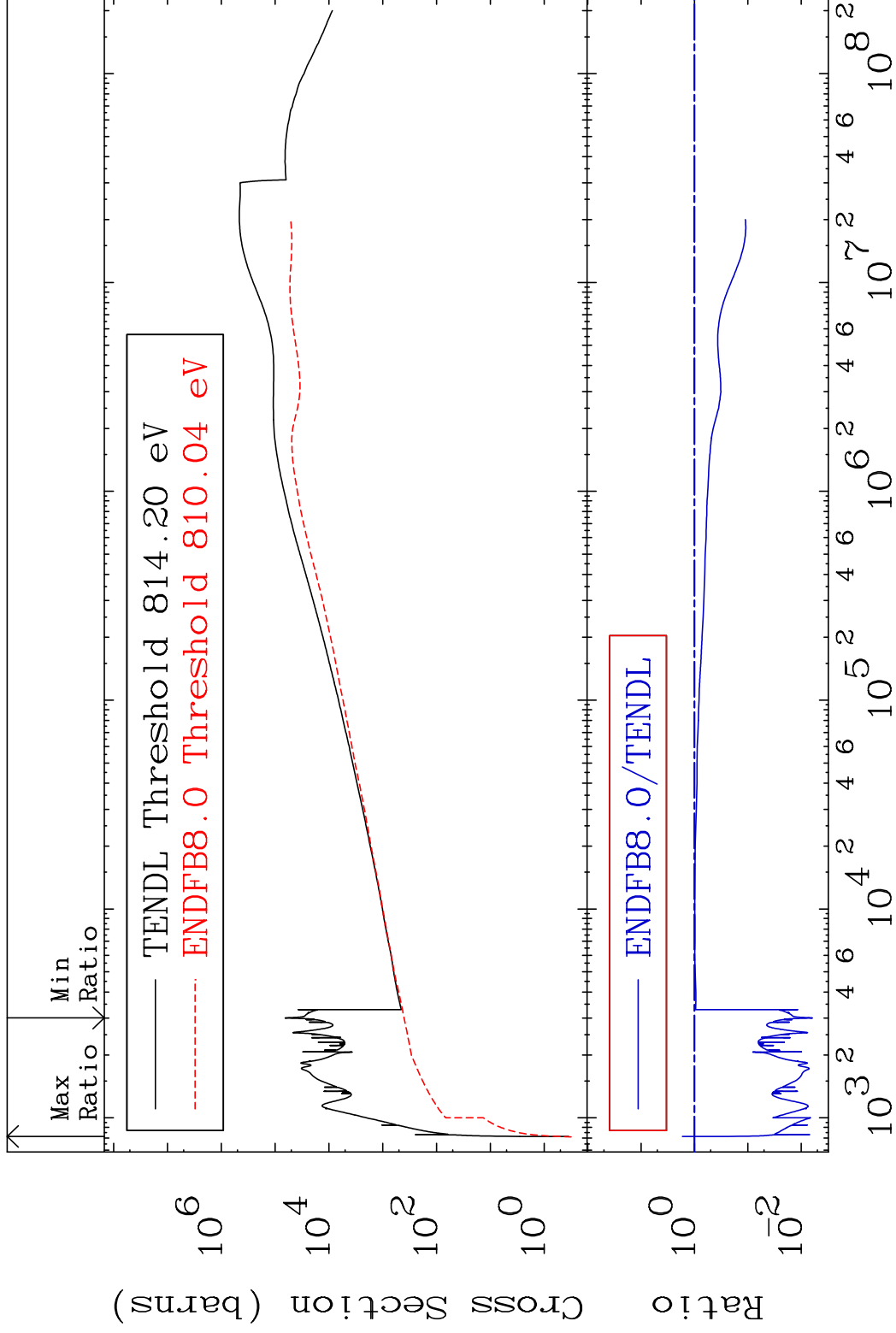
MAT 5259

Dpa elastic (mt2)

52-Te-131m

Cross Section

-99.39 To 69.11 %

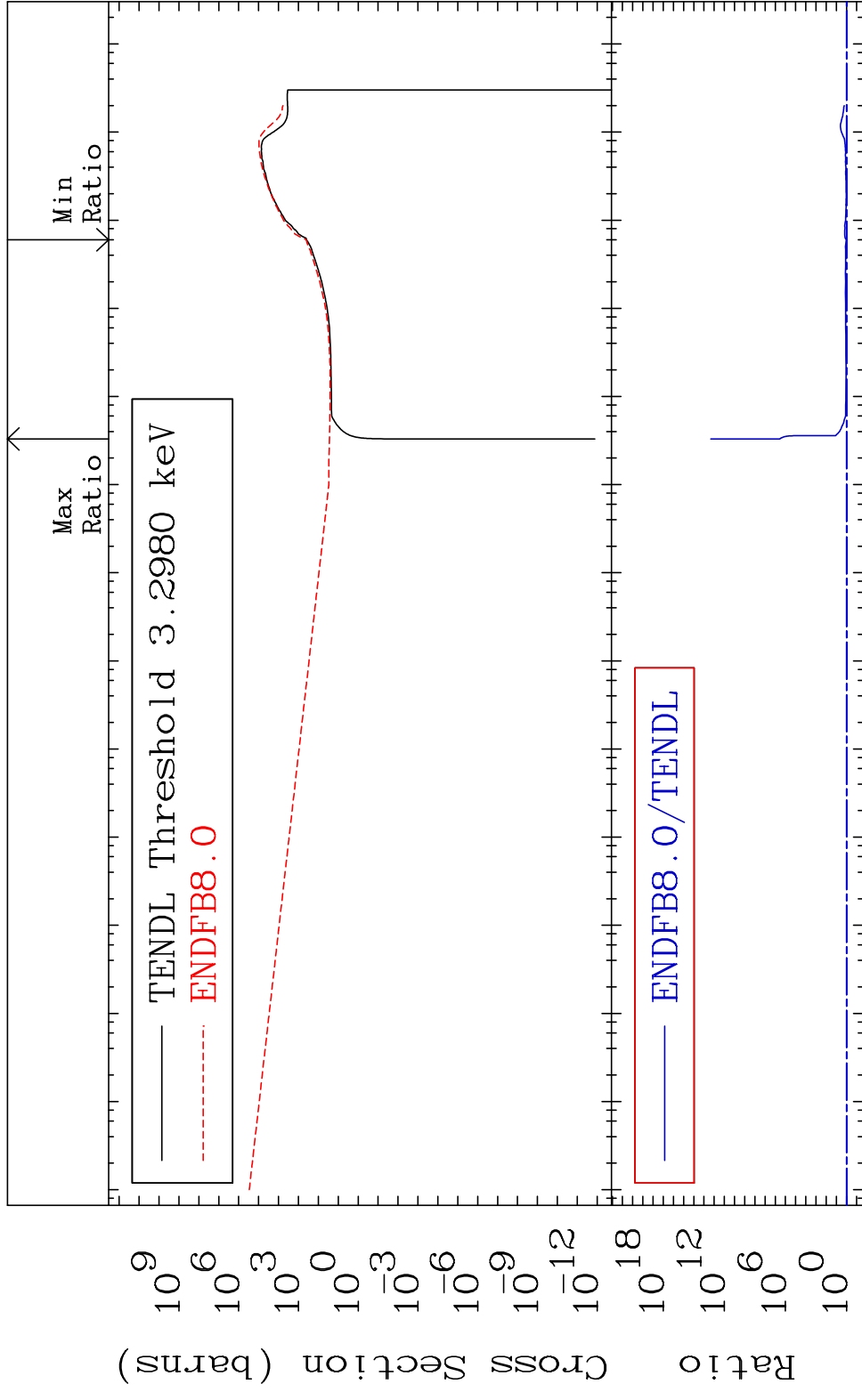


53

Incident Energy (eV)

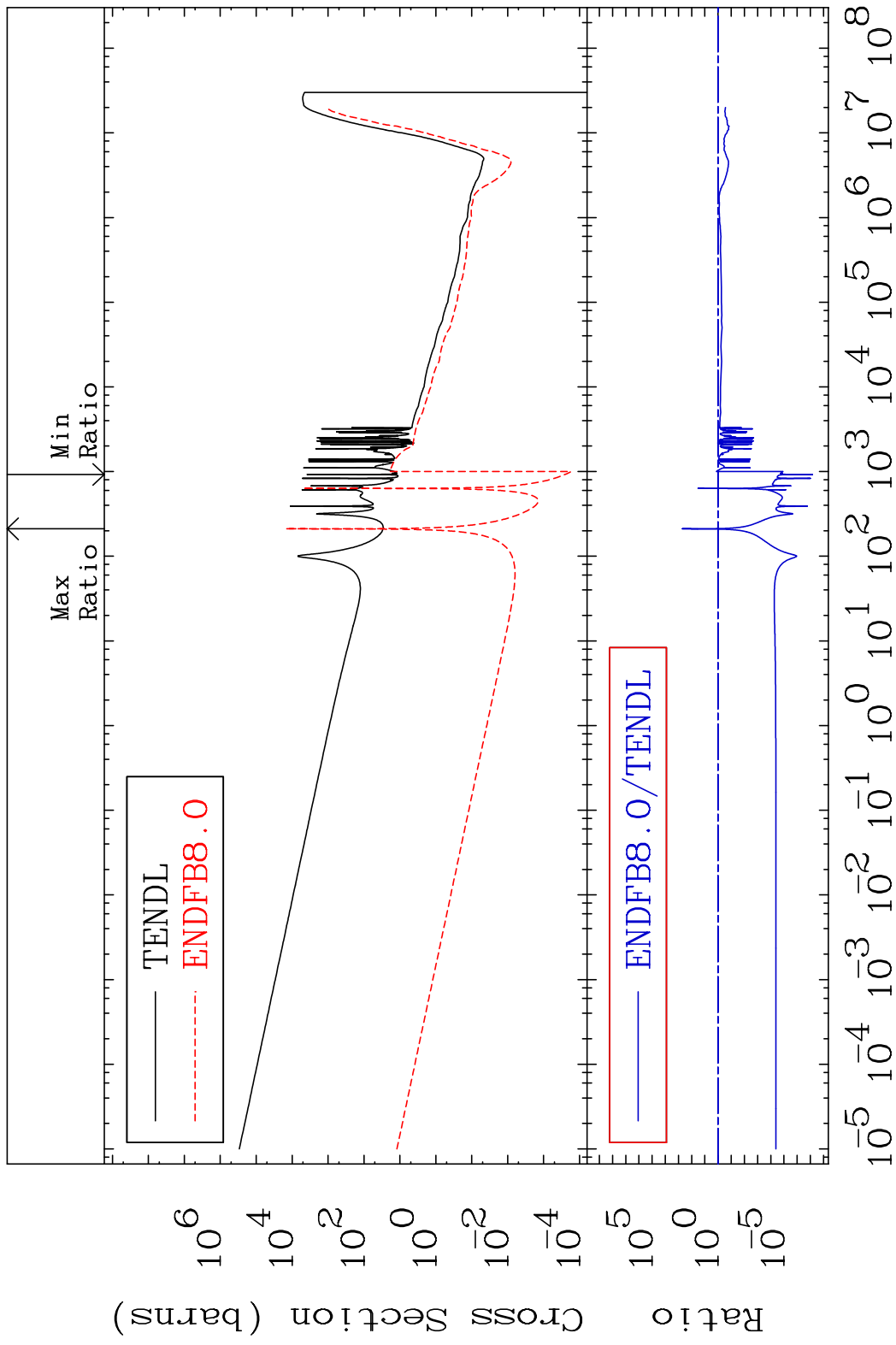
52-Te-131m

MAT 5259 Dpa inelastic (mt51-91) 52-Te-131m
 Cross Section 4.540 To 9999. %



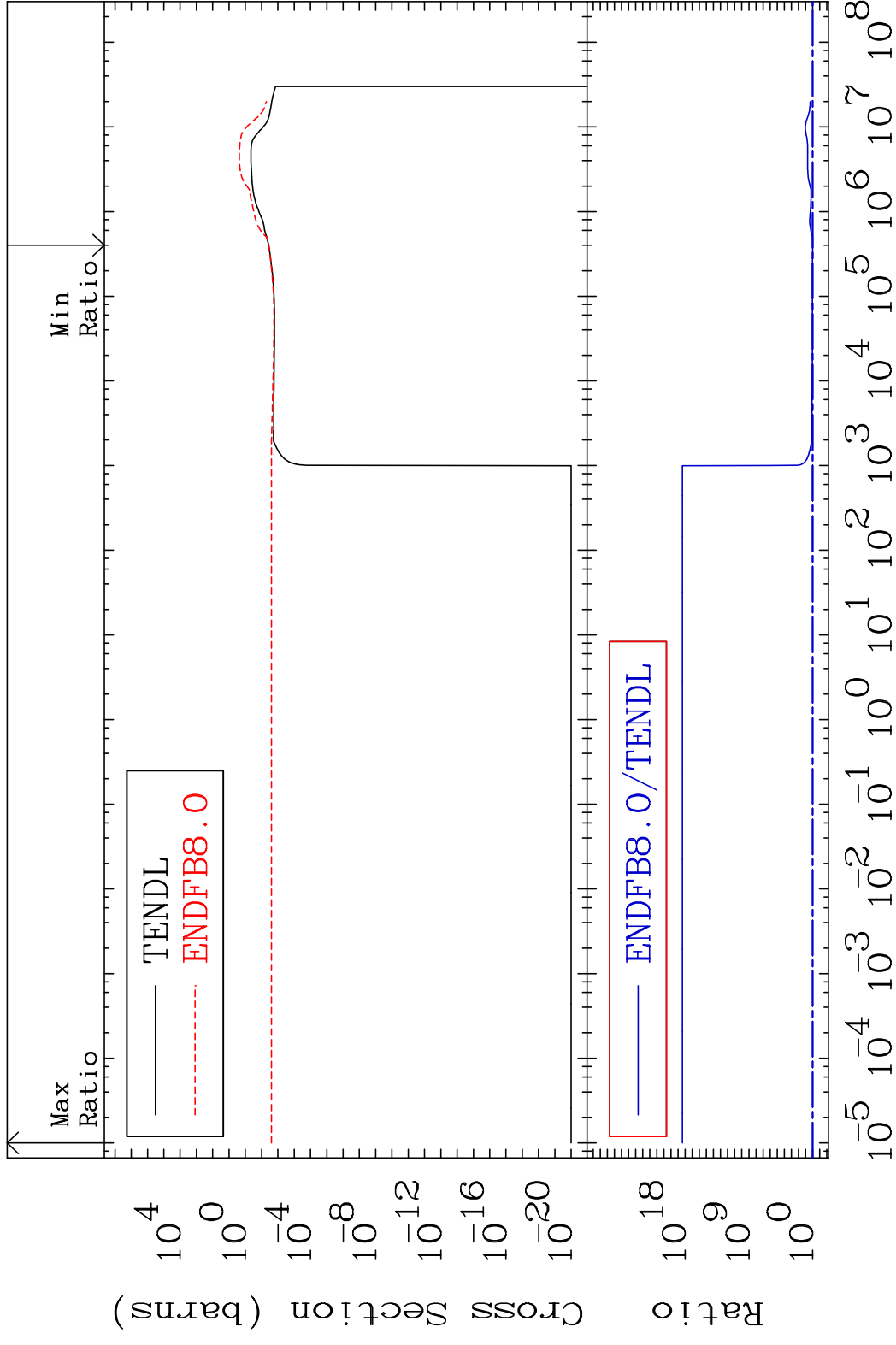
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8

MAT 5259 Dpa disappearance (mt102 -120) 52-Te-131m
 Cross Section -100.0 To 9999. %

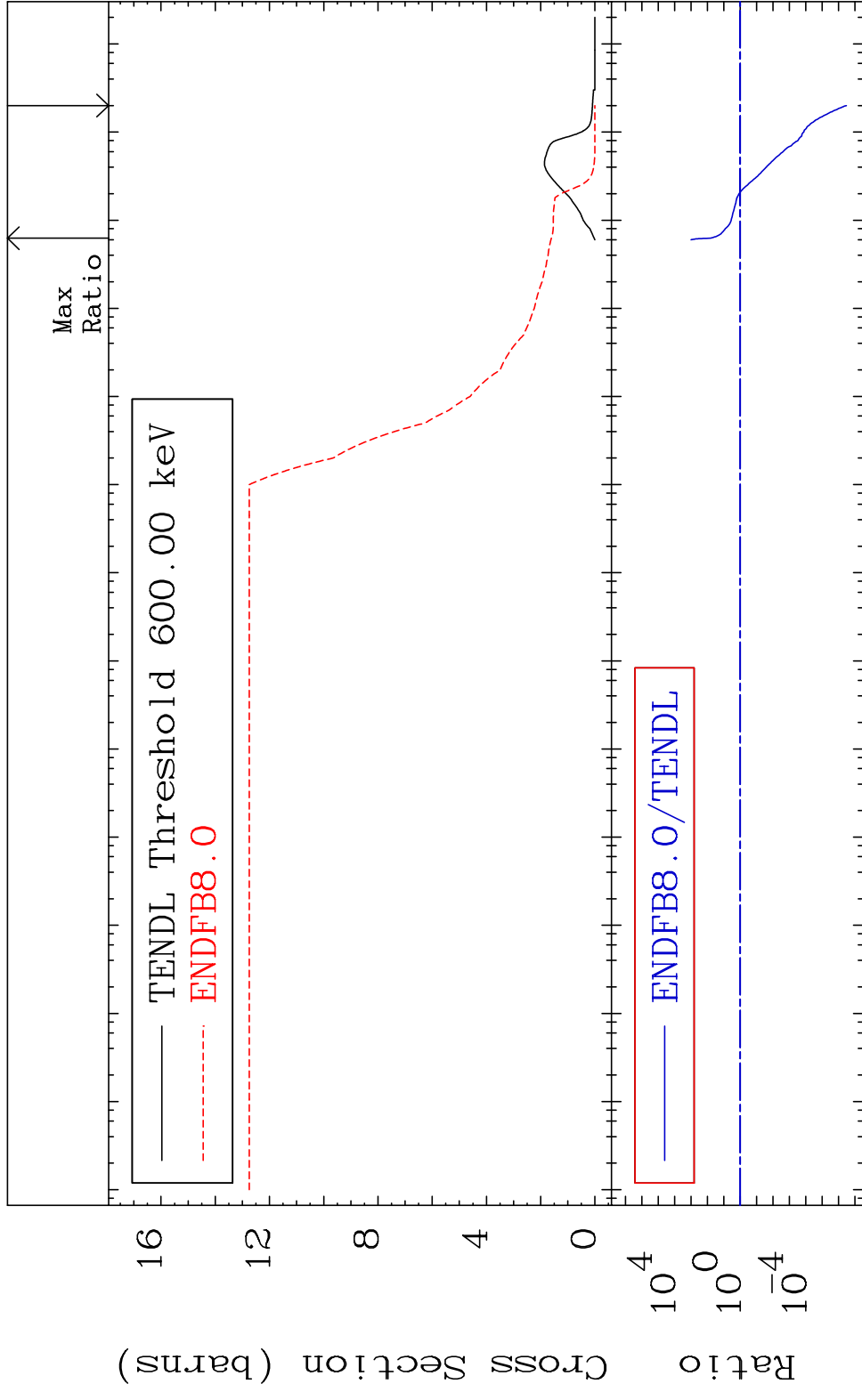


55 Incident Energy (eV) 52-Te-131m

MAT 5259 Inelastic:52-Te-131g 52-Te-131m
 Radionuclide Production Cross Section to 9999. %



MAT 5259 Inelastic:52-Te-131m 52-Te-131m
 Radionuclide Production Cross Section Ratio 6239. %



57 Incident Energy (eV) 52-Te-131m