

Program Complot
(Version 2021-1)

by

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Press Mouse Button to Start

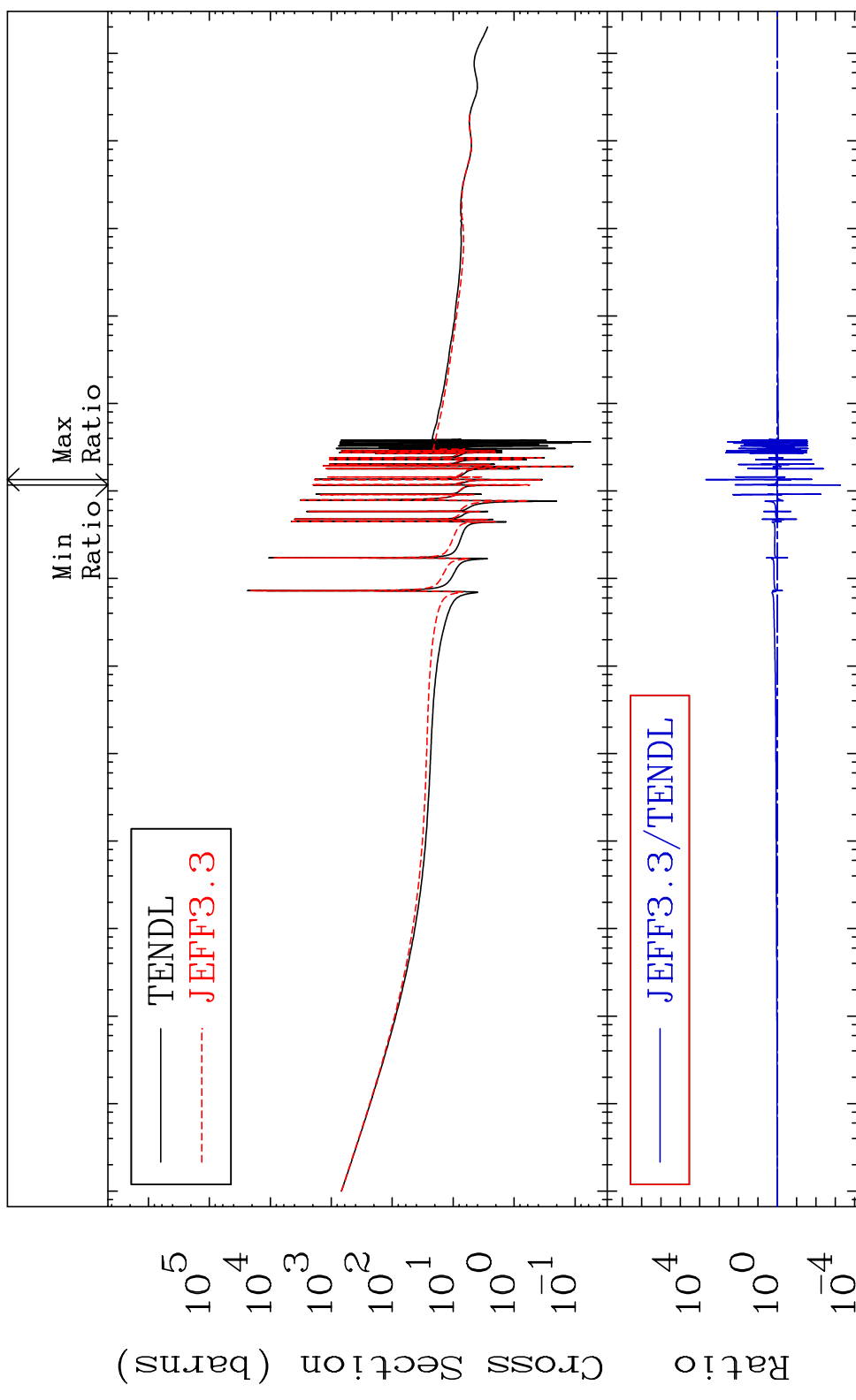
MAT 7243

Total

72-Hf-180

Cross Section

-99.95 To 9999. %



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

1

Incident Energy (eV)

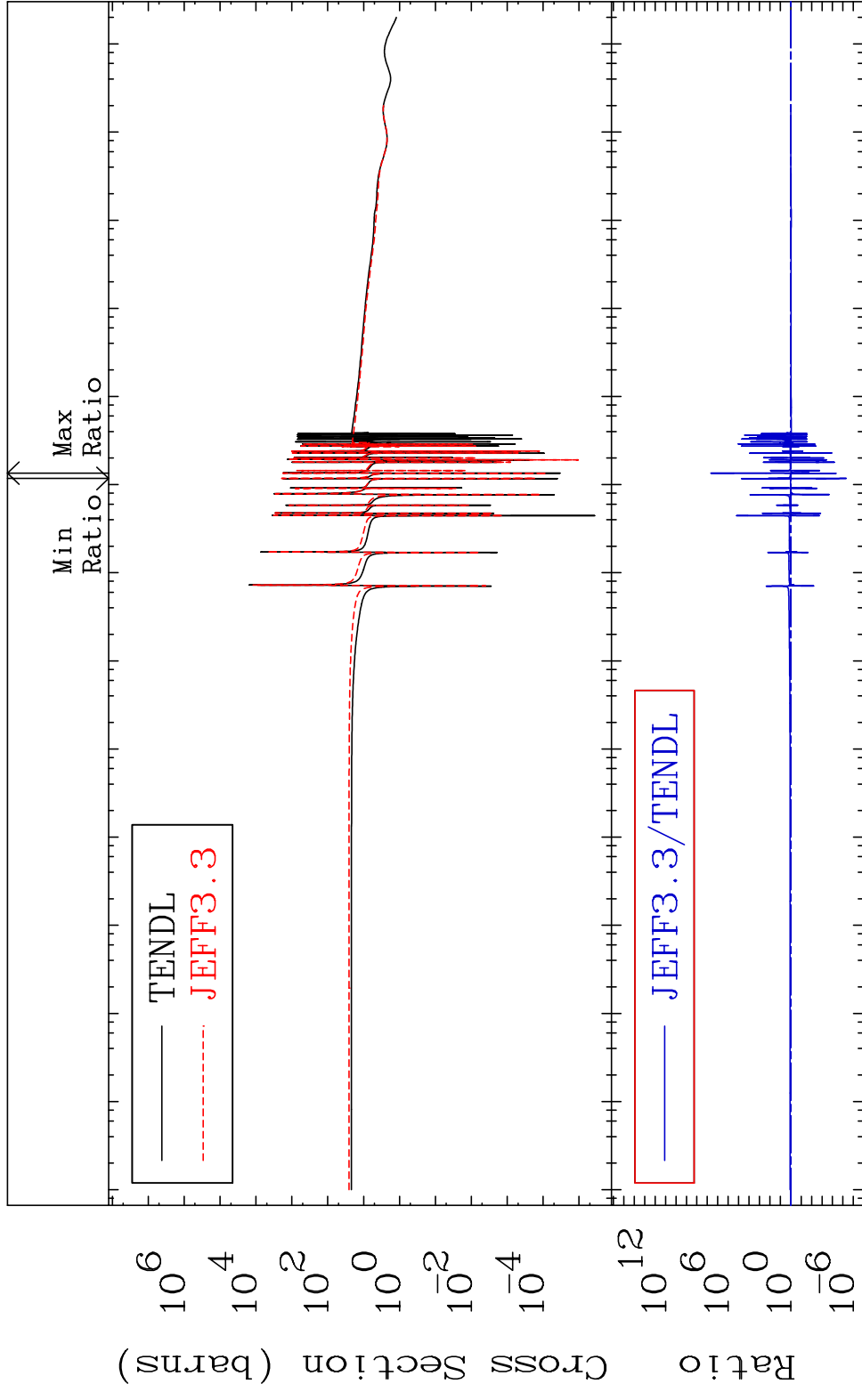
72-Hf-180

MAT 7243

72-Hf-180

Elastic

Cross Section -100.0 To 9999. %



2

Incident Energy (eV)

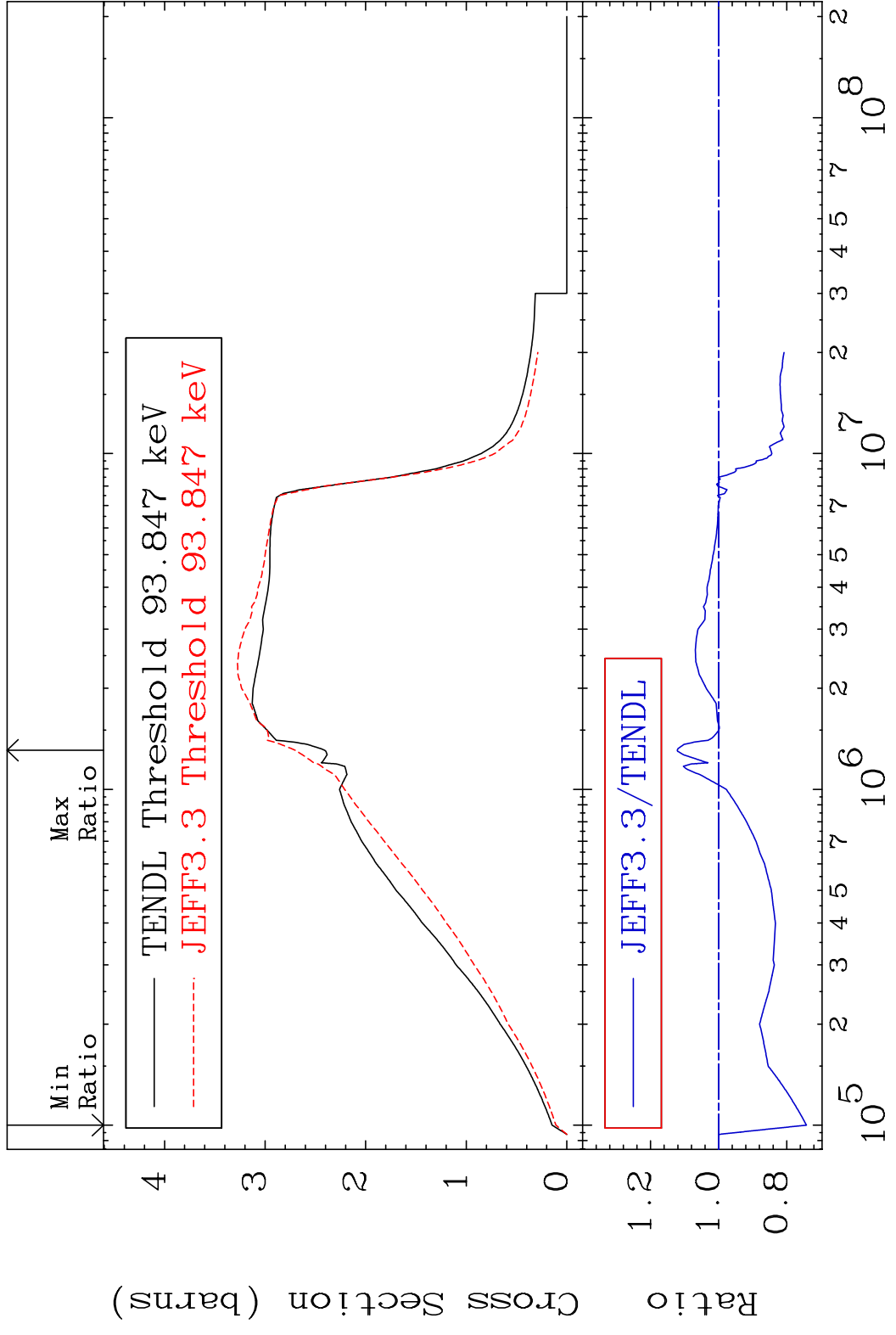
72-Hf-180

MAT 7243

Inelastic

72-Hf-180

Cross Section -25.79 To 12.18 %



3

Incident Energy (eV)

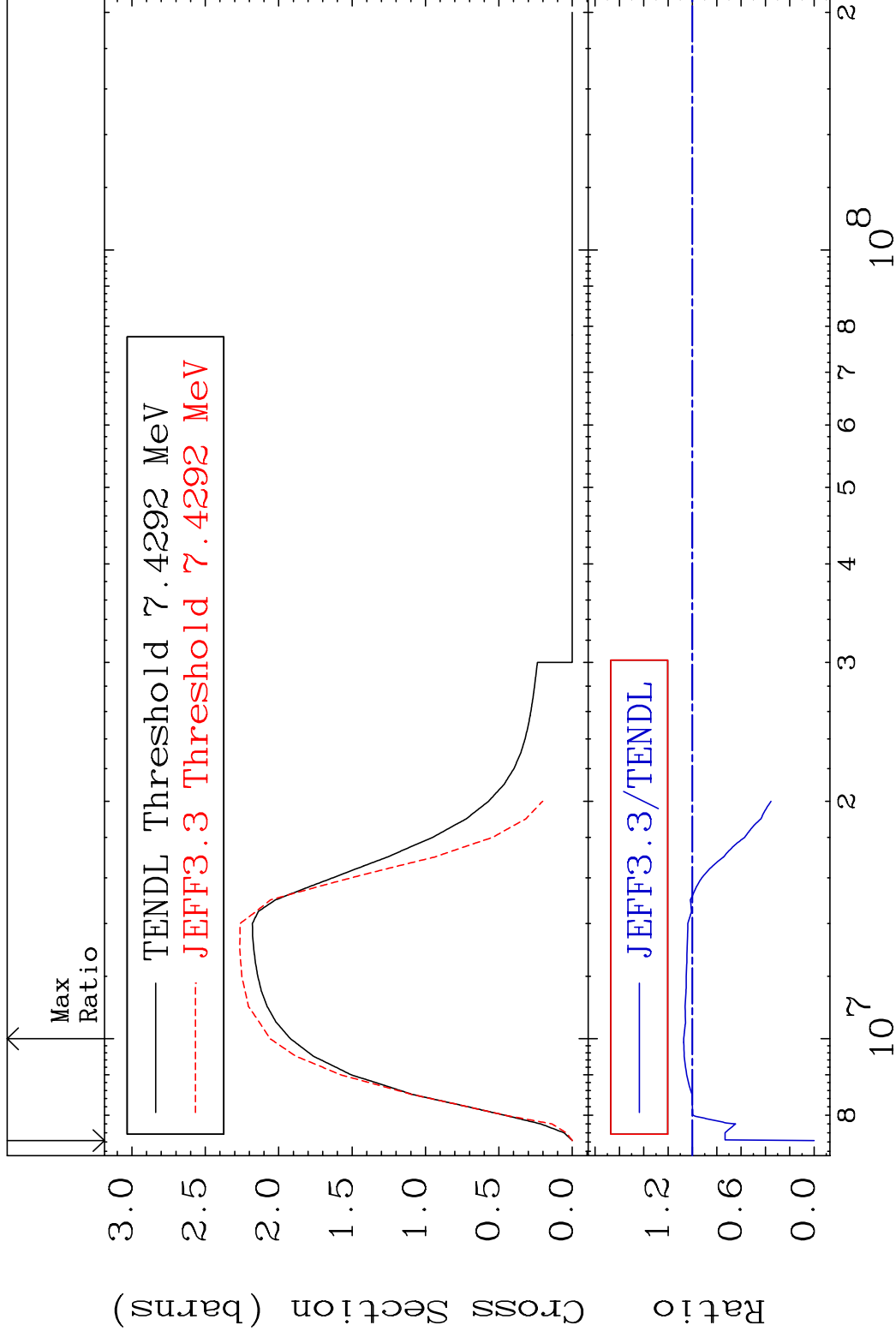
72-Hf-180

MAT 7243

(n,2n)

72-Hf-180

Cross Section -100.0 To 7.231 %



4

Incident Energy (eV)

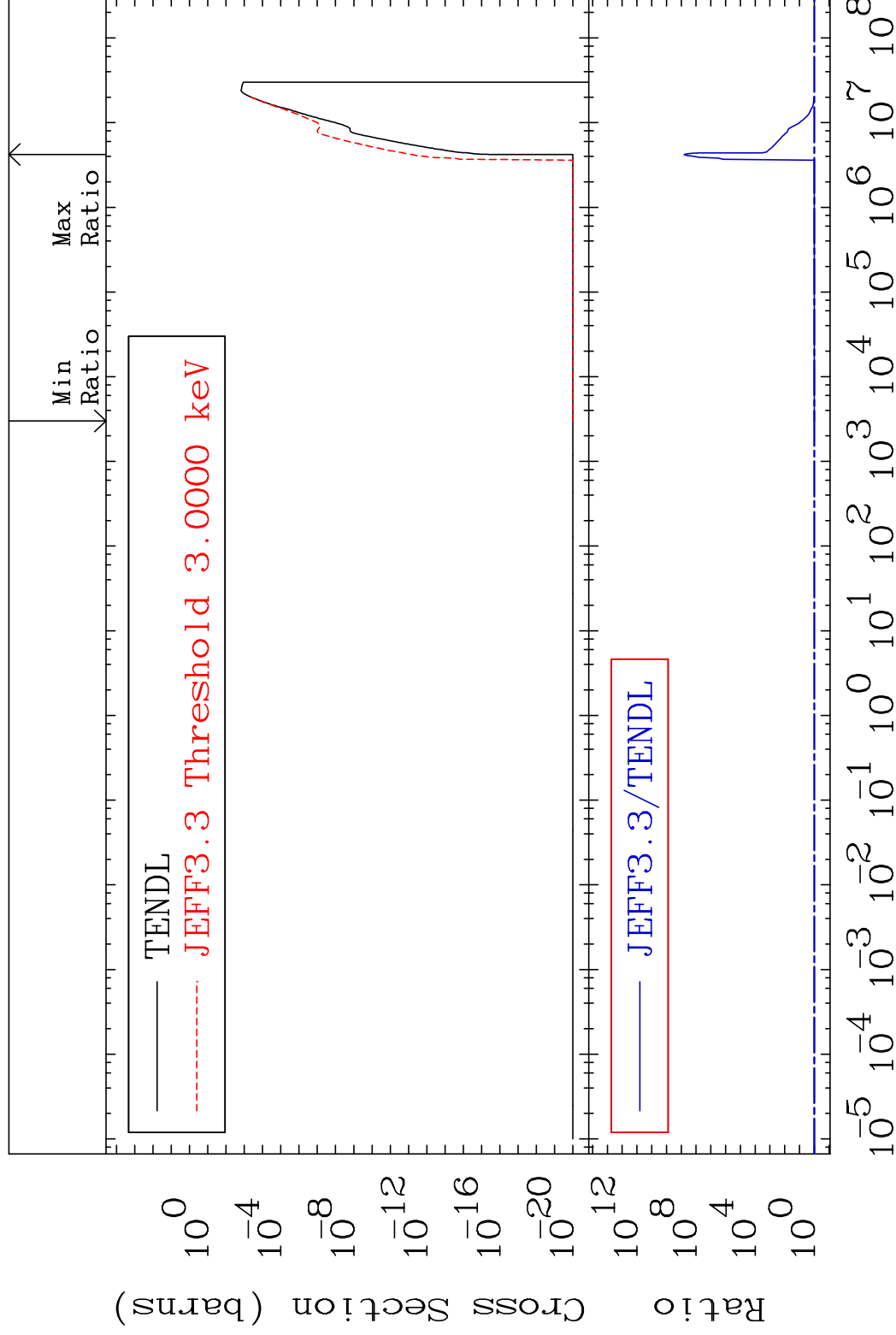
72-Hf-180

MAT 7243

(n, n') α

72-Hf-180

Cross Section 0.000 To 9999. %



6

Incident Energy (eV)

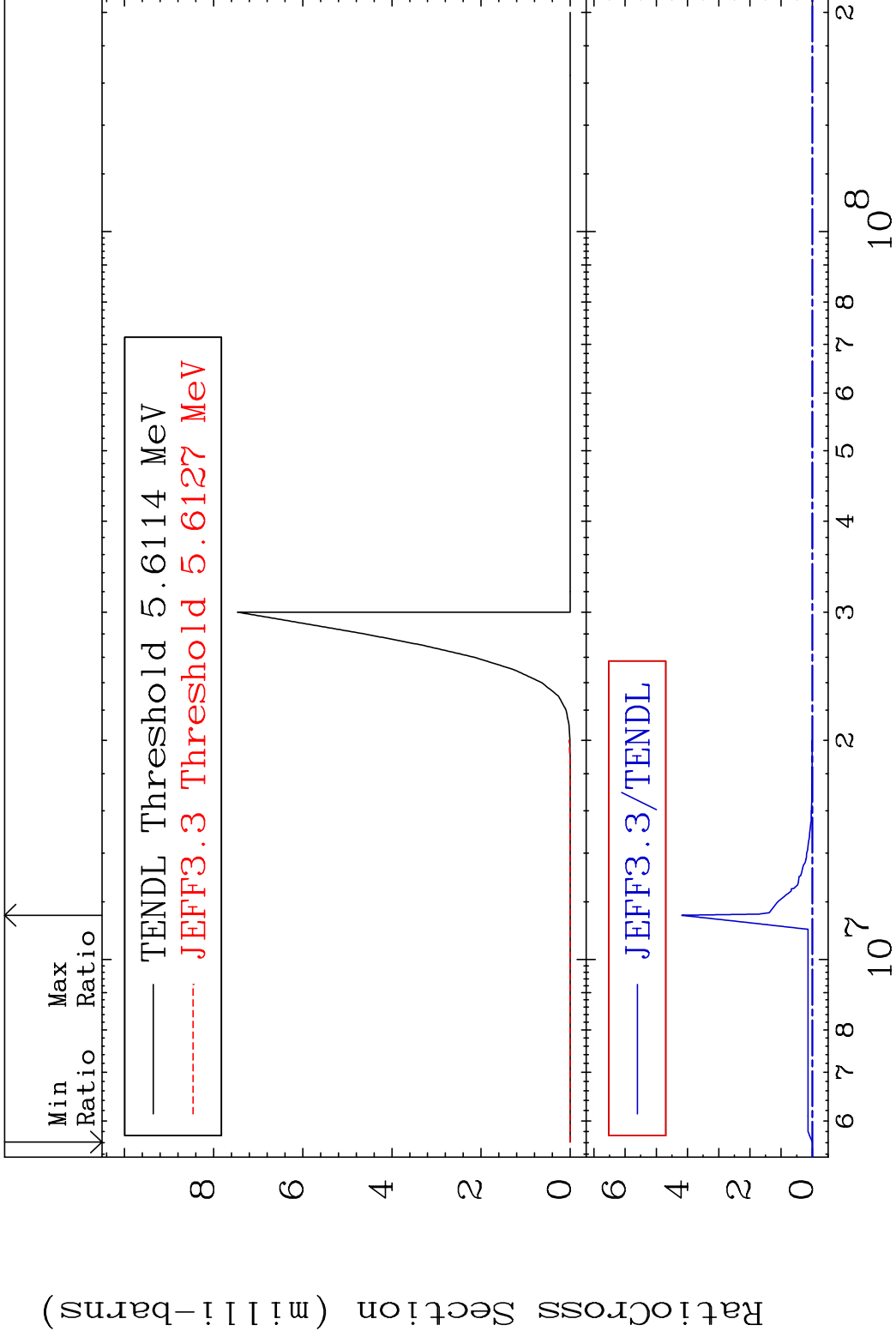
72-Hf-180

MAT 7243

(n,2n) α

72-Hf-180

Cross Section -100.0 To 9999. %



7

Incident Energy (eV)

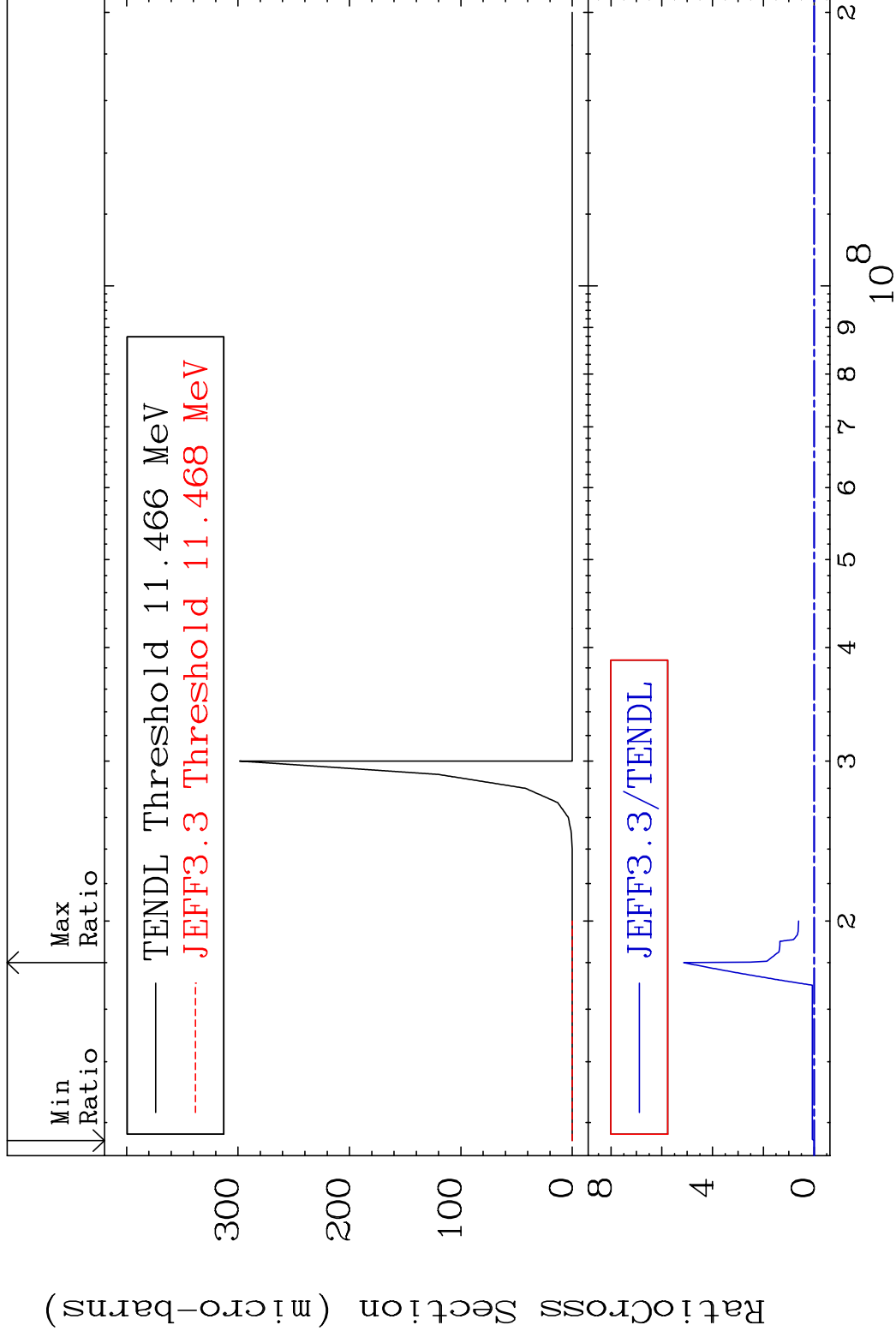
72-Hf-180

MAT 7243

(n,3n) α

72-Hf-180

Cross Section -100.0 To 9999. %



8

Incident Energy (eV)

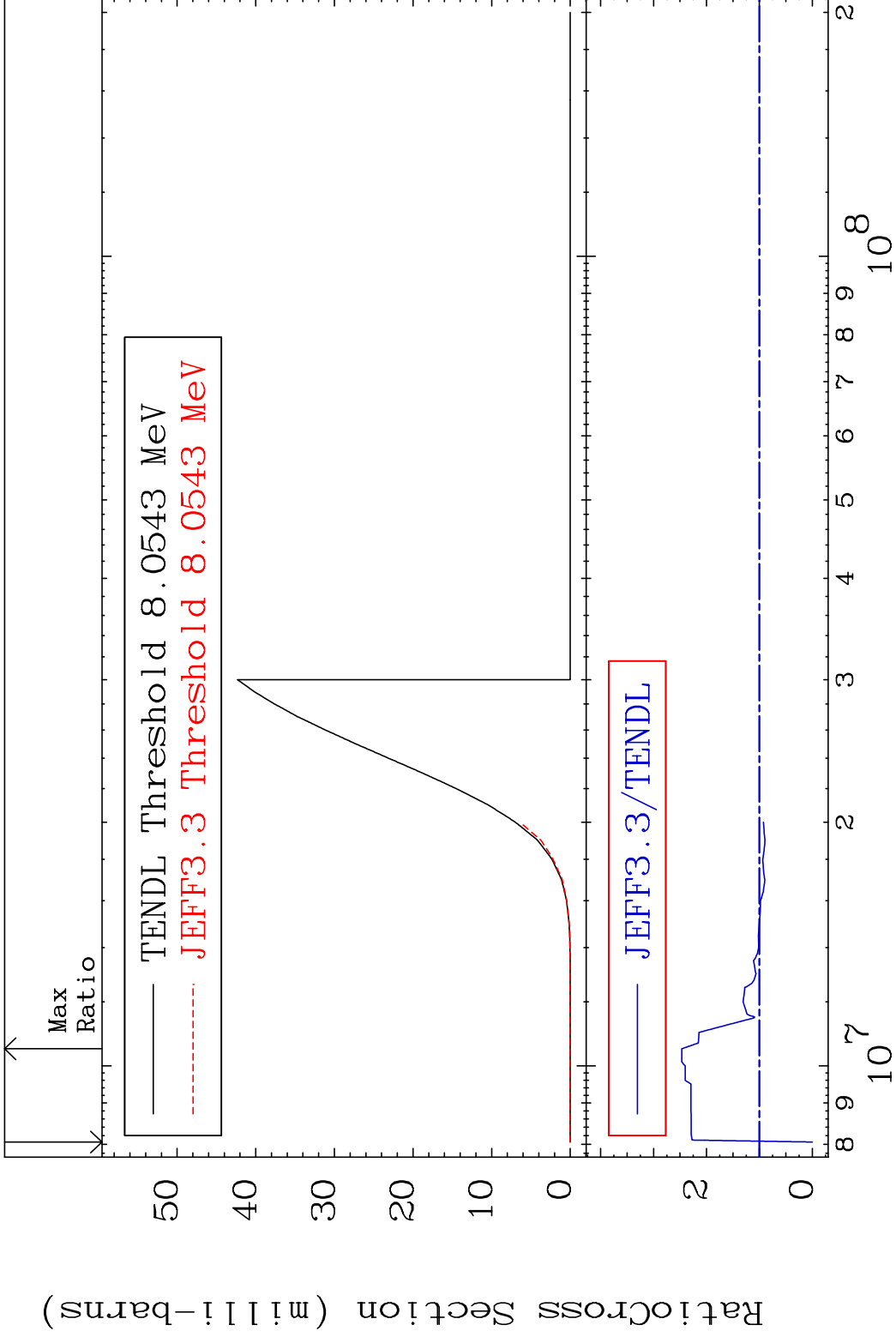
72-Hf-180

MAT 7243

(n, n') p

72-Hf-180

Cross Section -100.0 To 146.8 %



9

Incident Energy (eV)

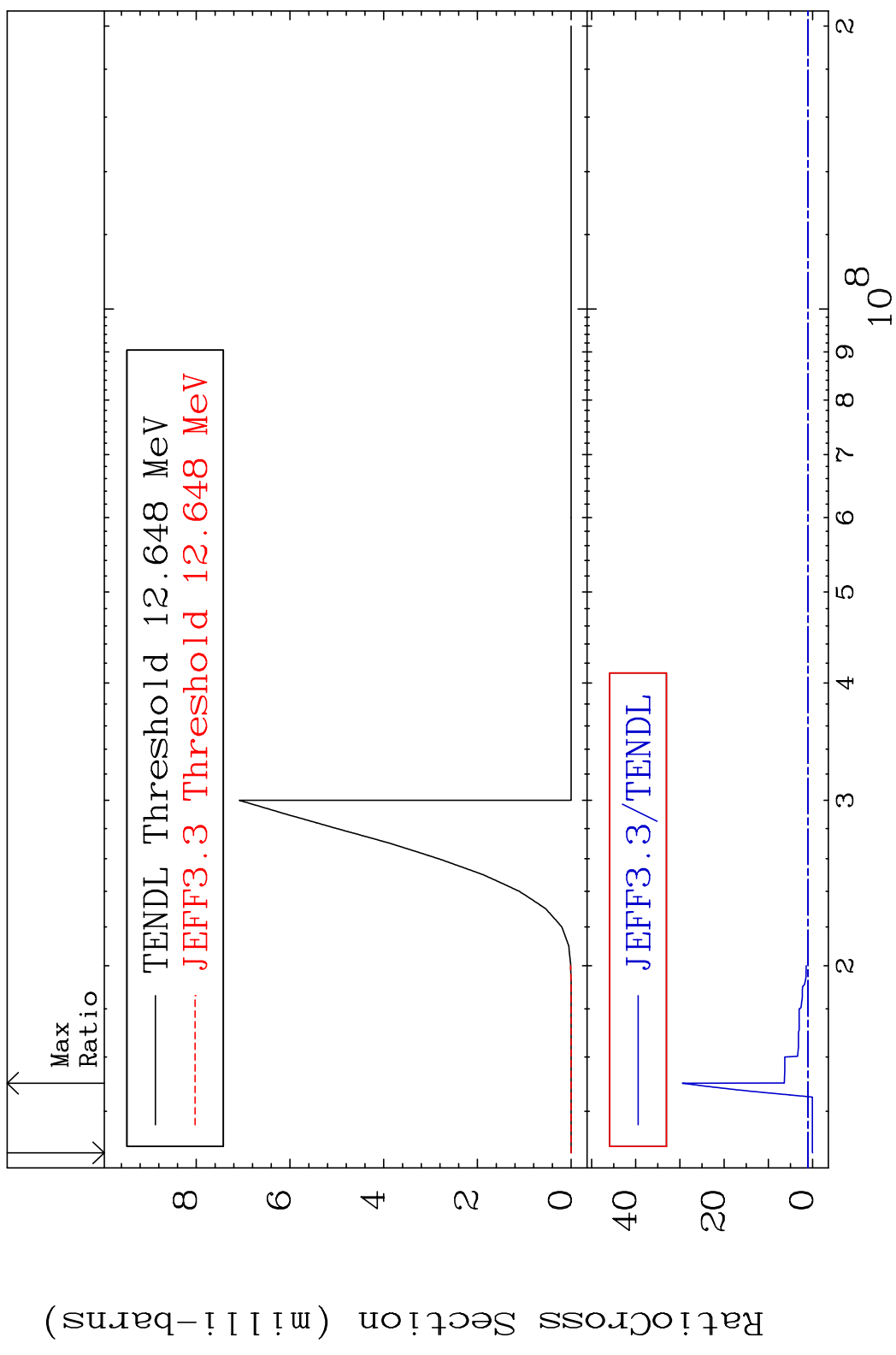
72-Hf-180

MAT 7243

(n, n') d

72-Hf-180

Cross Section -100.0 To 2846. %

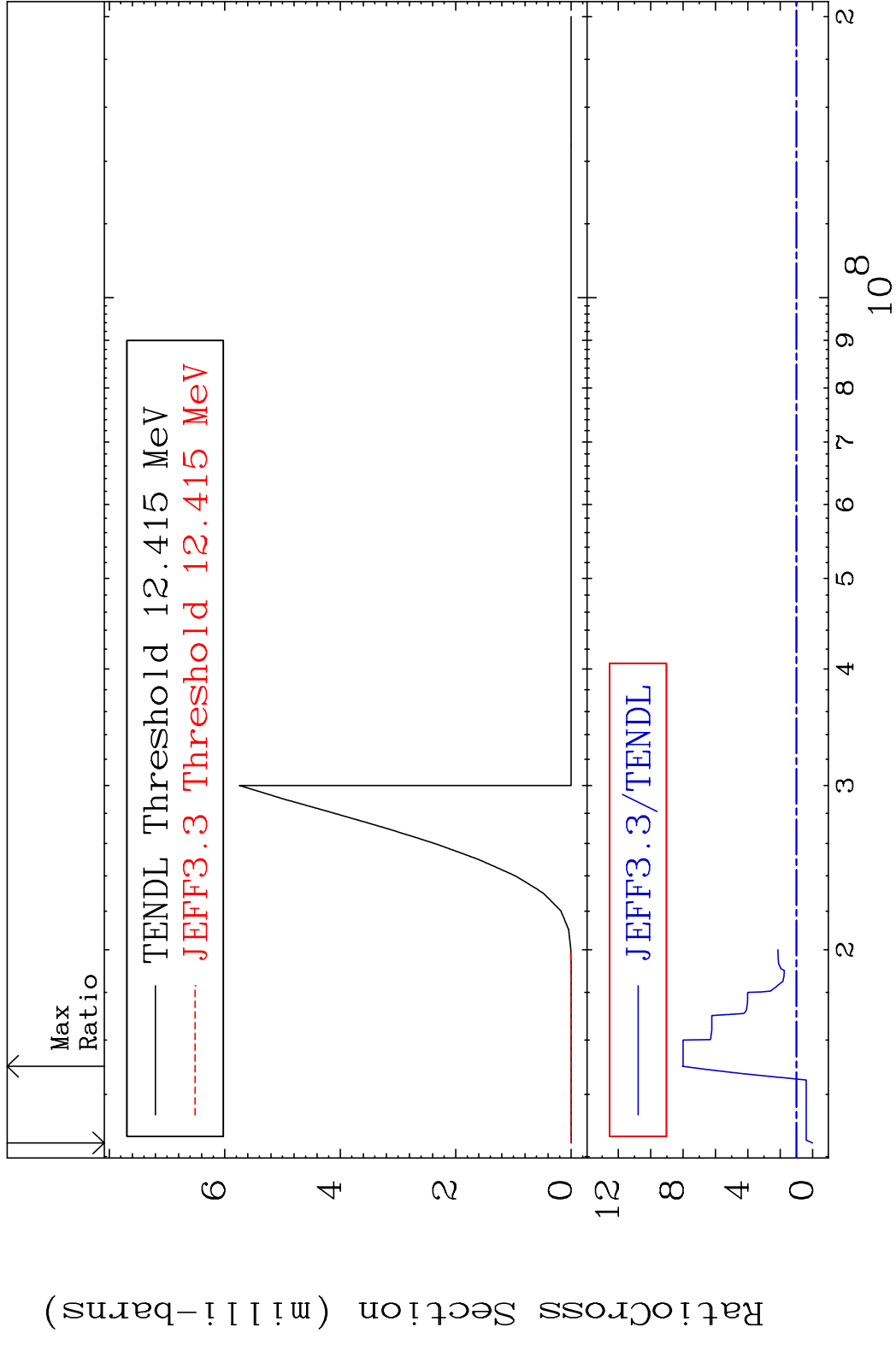


10

Incident Energy (eV)

72-Hf-180

MAT 7243 (n, n') t 72-Hf-180
 Cross Section -100.0 To 704.1 %

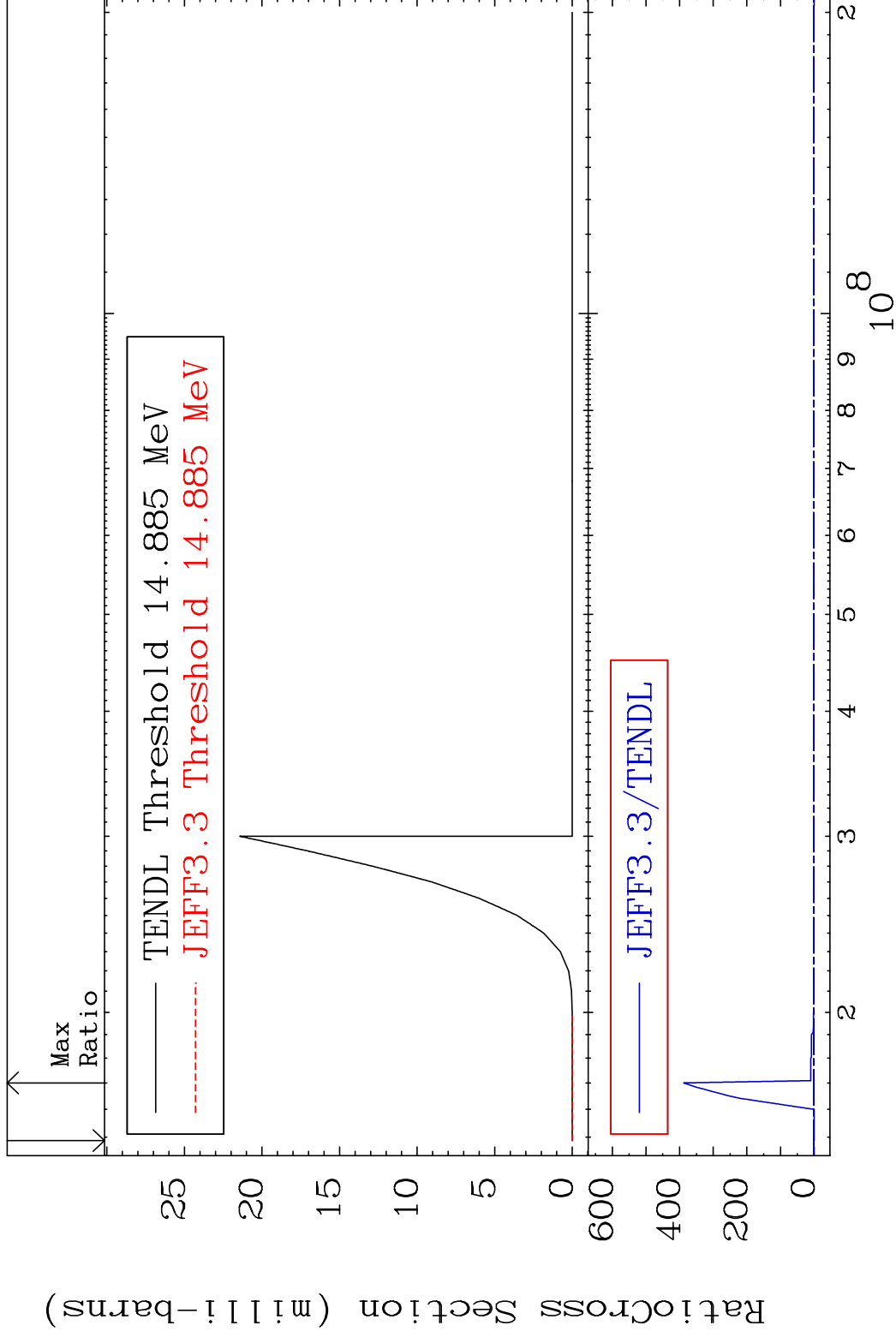


MAT 7243

(n,2n) p

72-Hf-180

Cross Section -100.0 To 9999. %

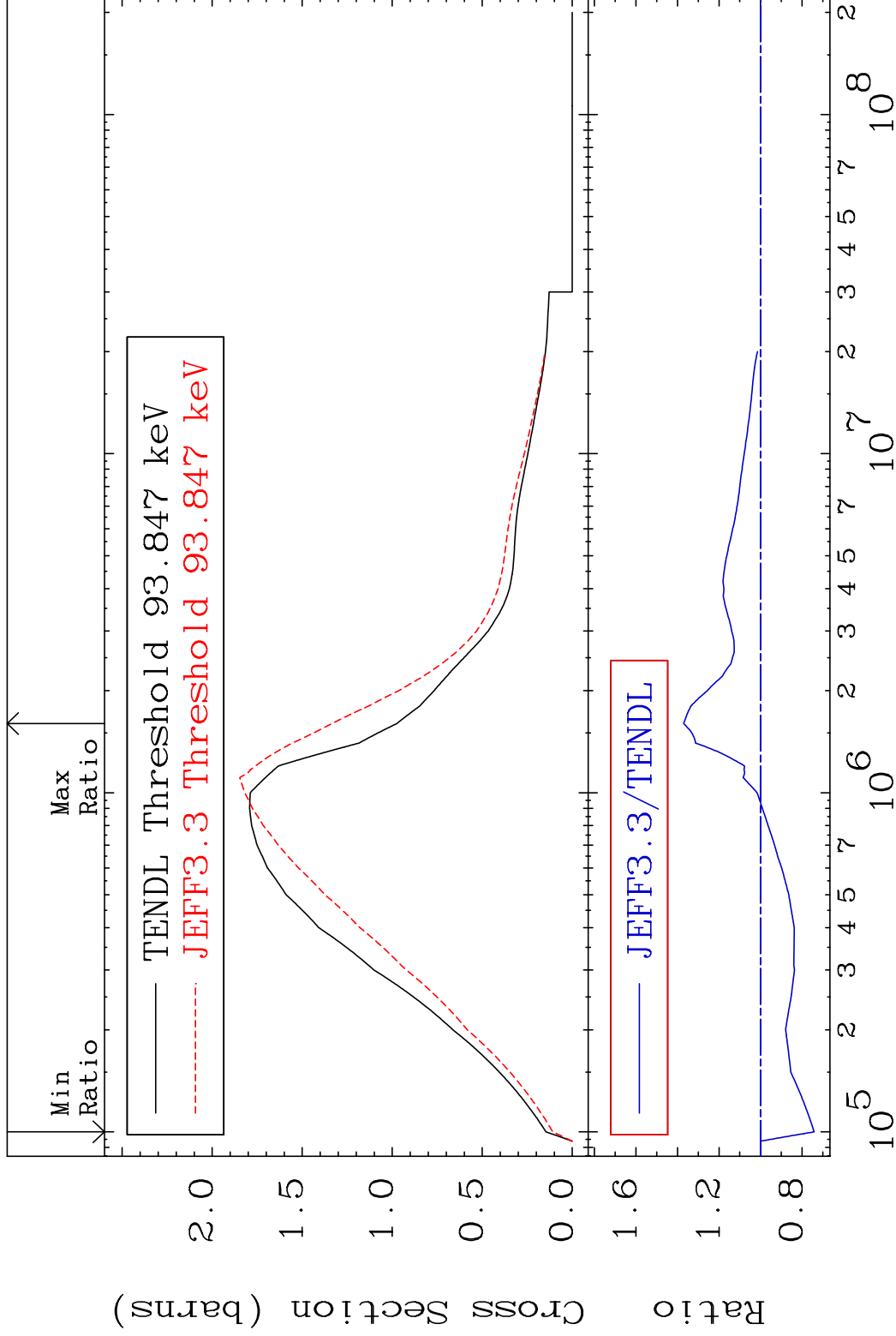


MAT 7243

MT= 51 (n, n') Level

72-Hf-180

Cross Section -25.79 To 37.02 %

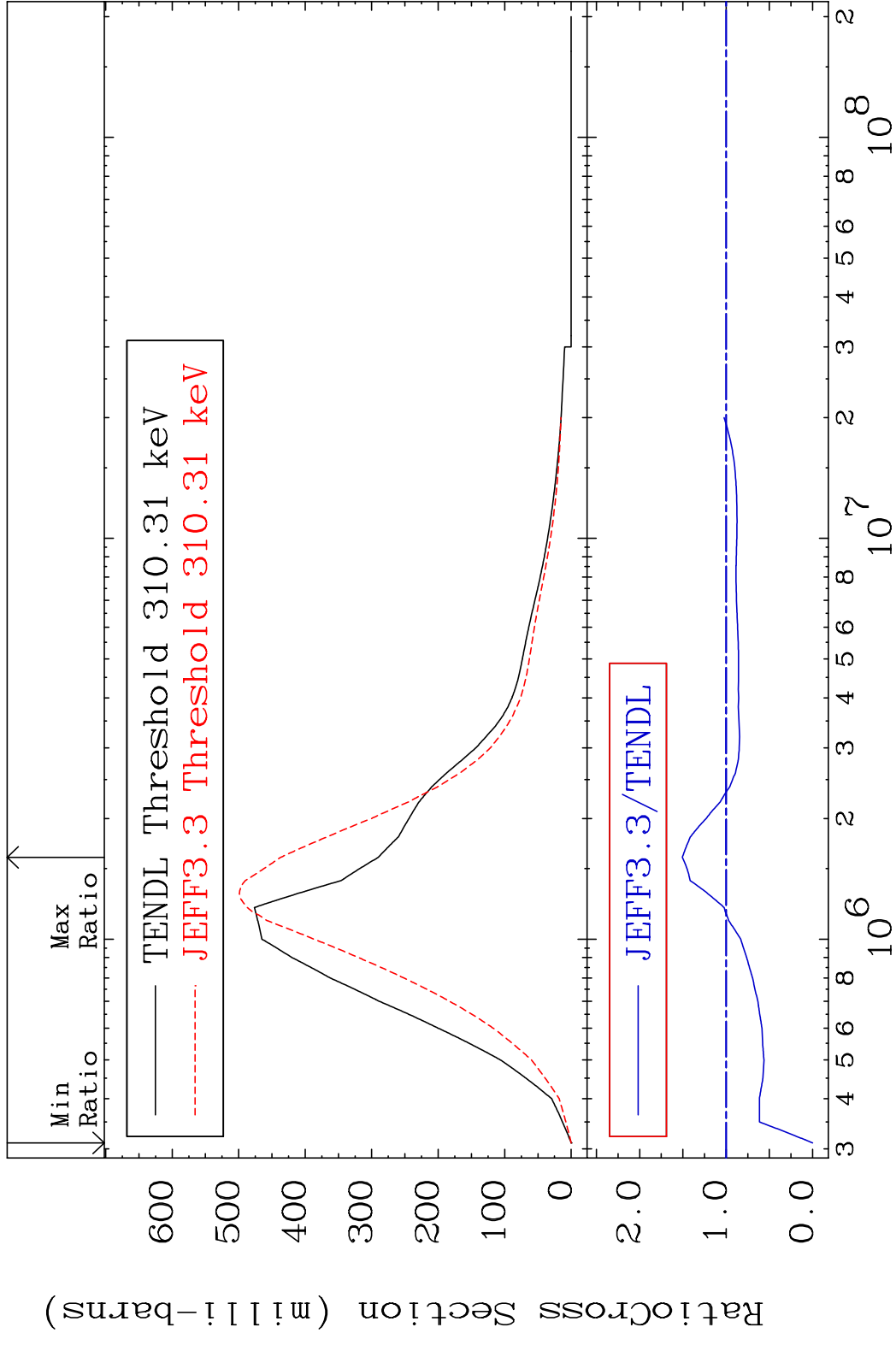


13

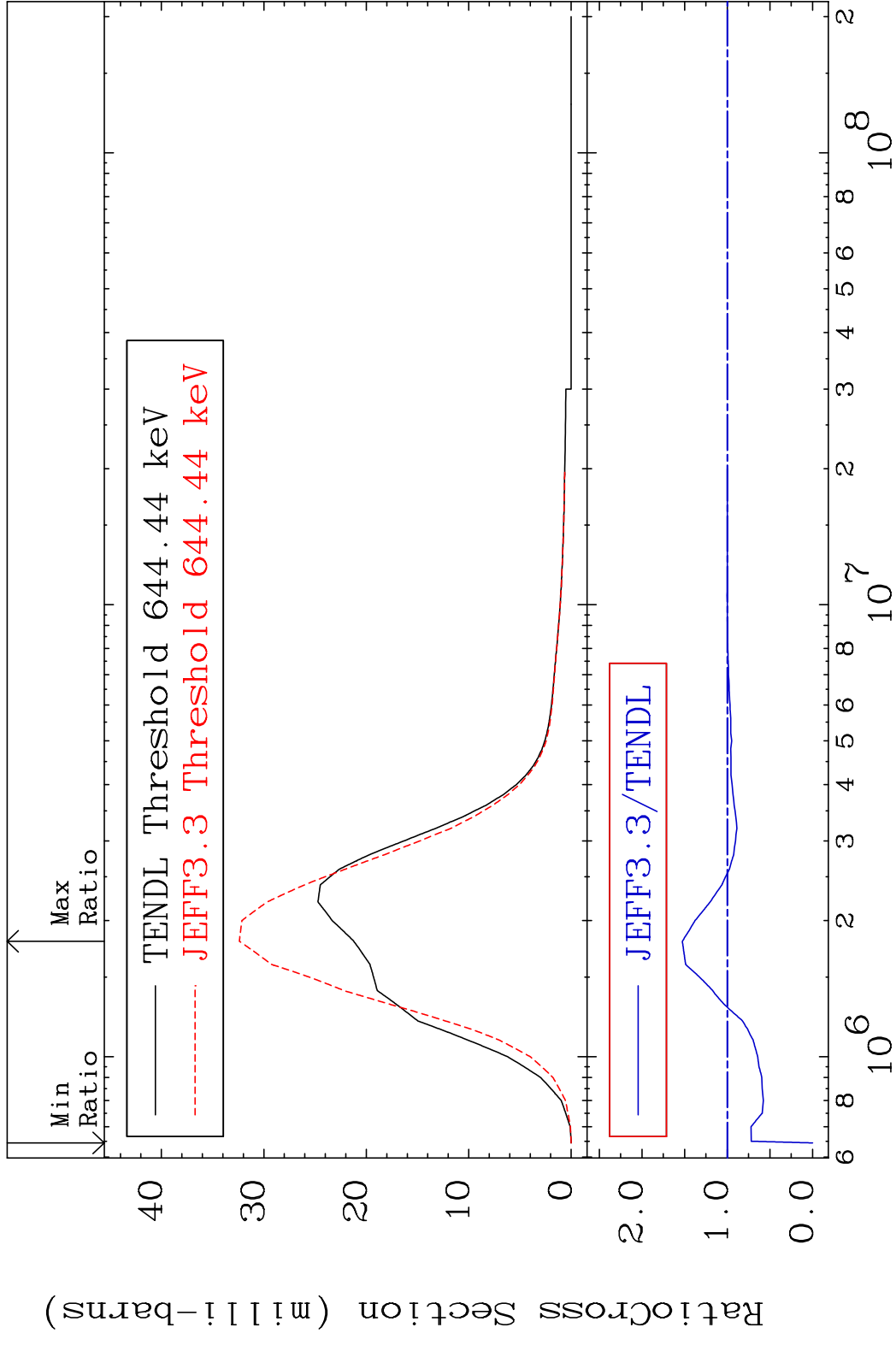
Incident Energy (eV)

72-Hf-180

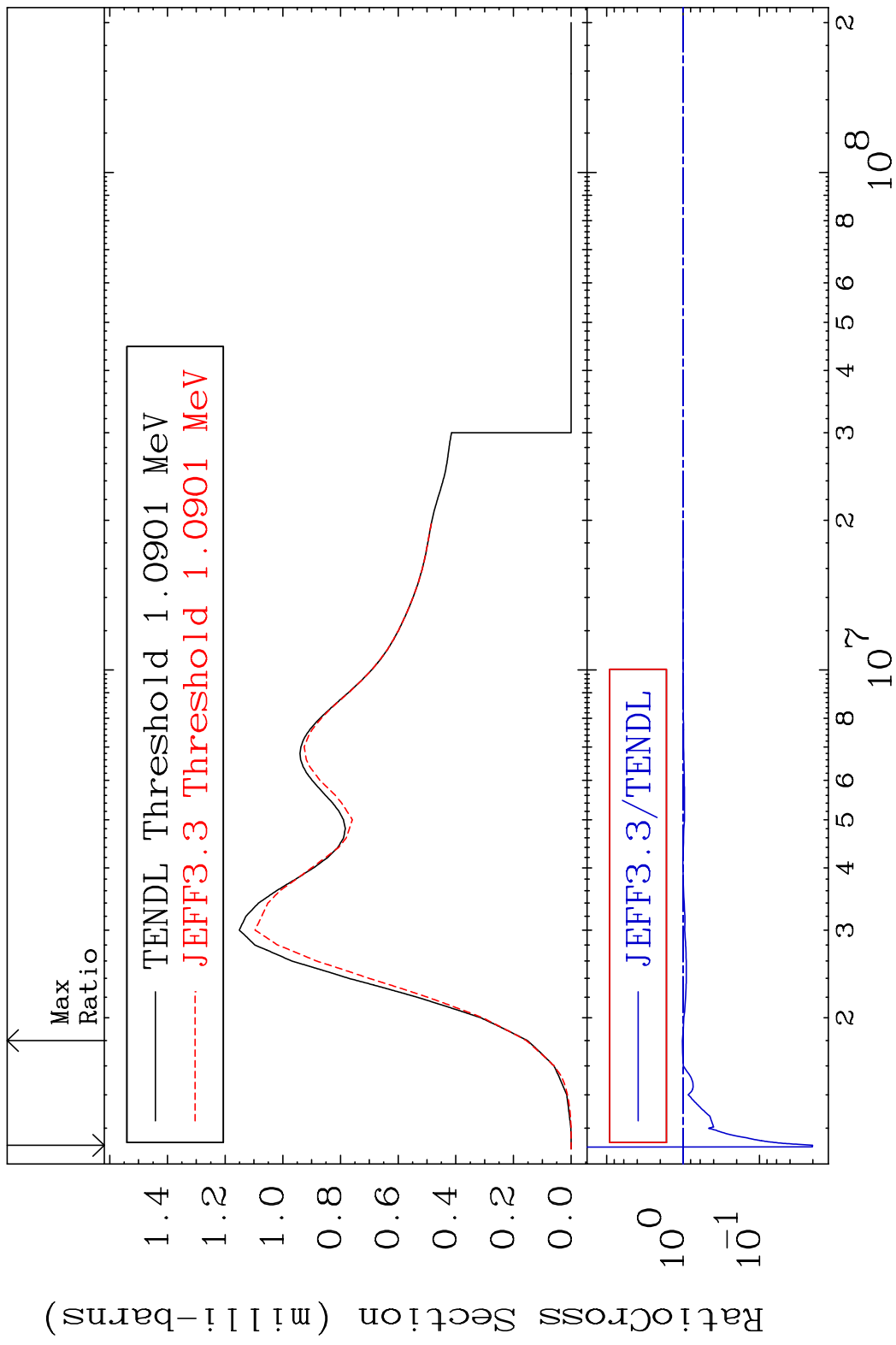
MAT 7243 MT= 52 (n,n') Level 72-Hf-180
 Cross Section -100.0 To 50.63 %



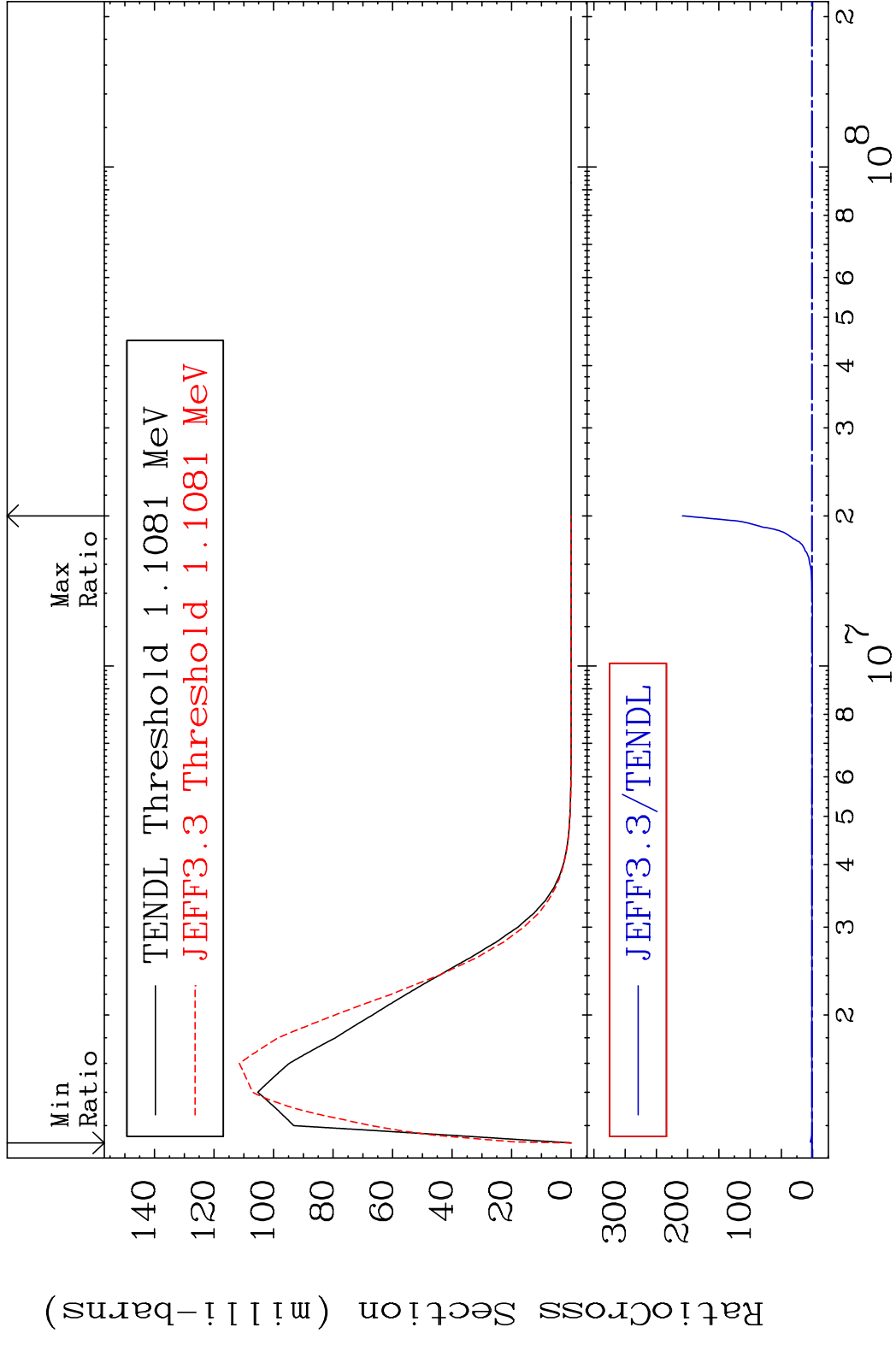
MAT 7243 MT= 53 (n, n') Level 72-Hf-180
 Cross Section -100.0 To 52.68 %



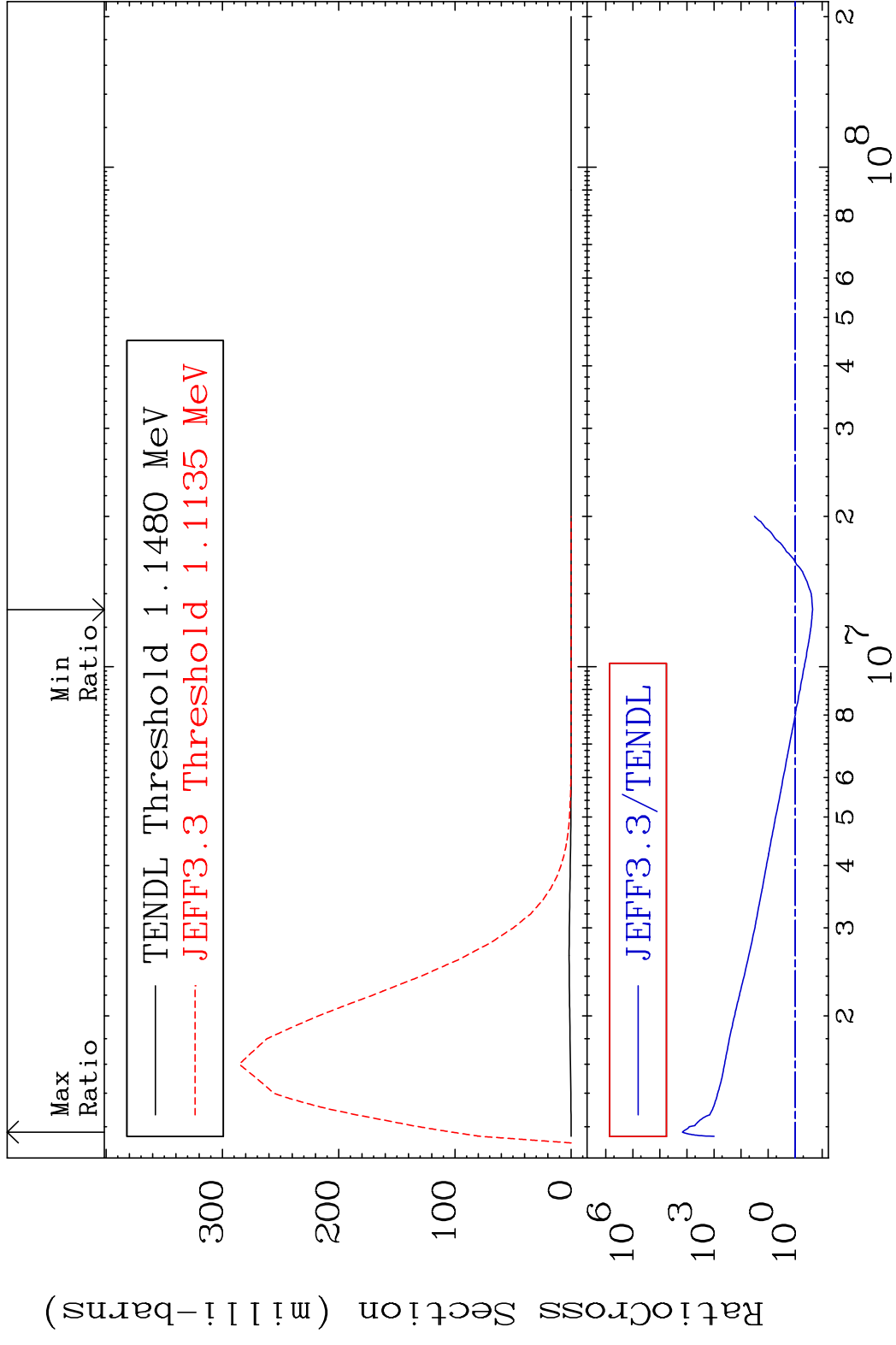
MAT 7243 MT= 54 (n,n') Level 72-Hf-180
 Cross Section -97.98 To 2.481 %



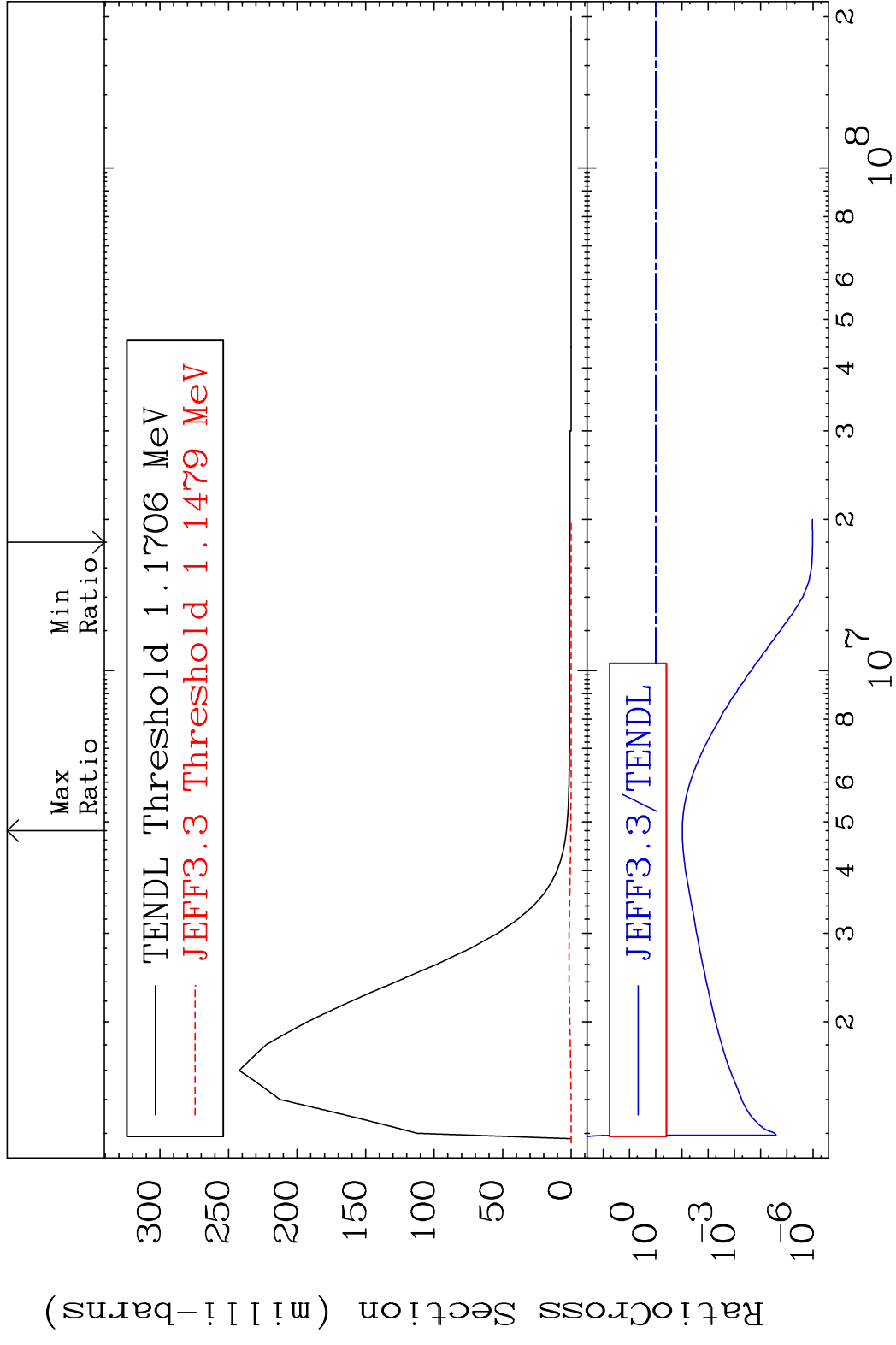
MAT 7243 MT= 55 (n, n') Level 72-Hf-180
 Cross Section -100.0 To 9999. %



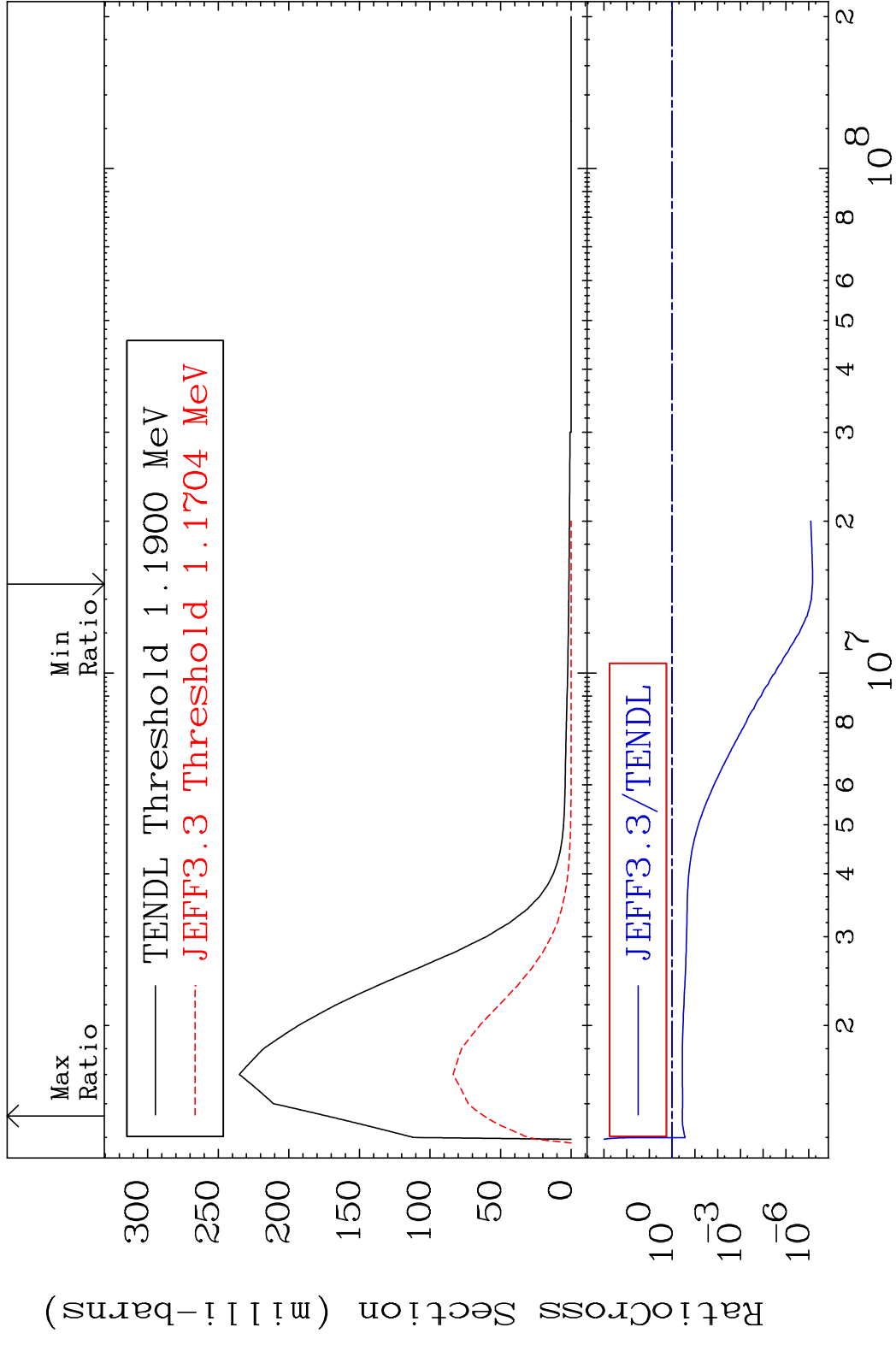
MAT 7243 MT= 56 (n,n') Level 72-Hf-180
 Cross Section -77.18 To 9999. %



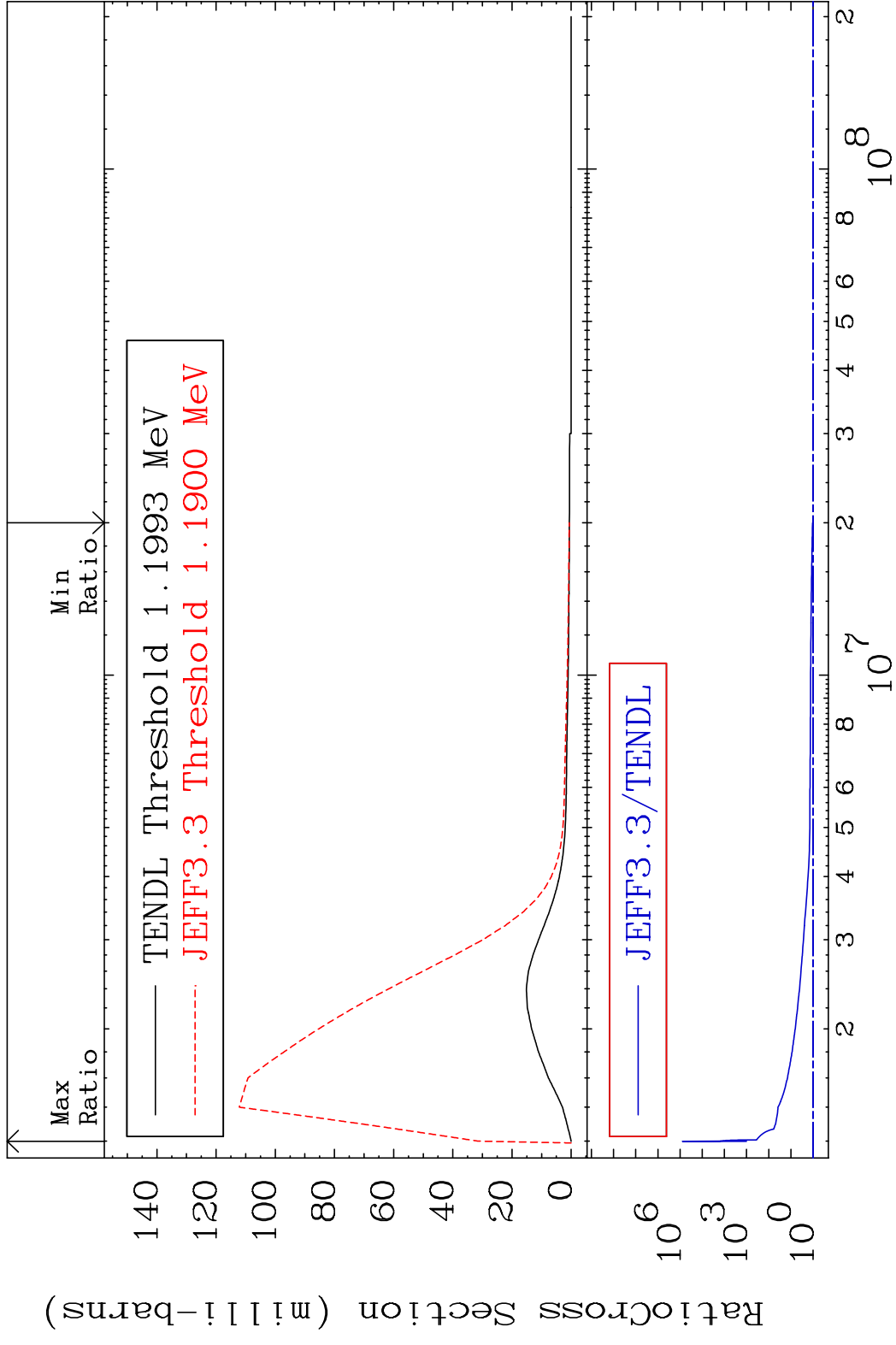
MAT 7243 MT= 57 (n, n') Level 72-Hf-180
 Cross Section -100.0 To -90.40%



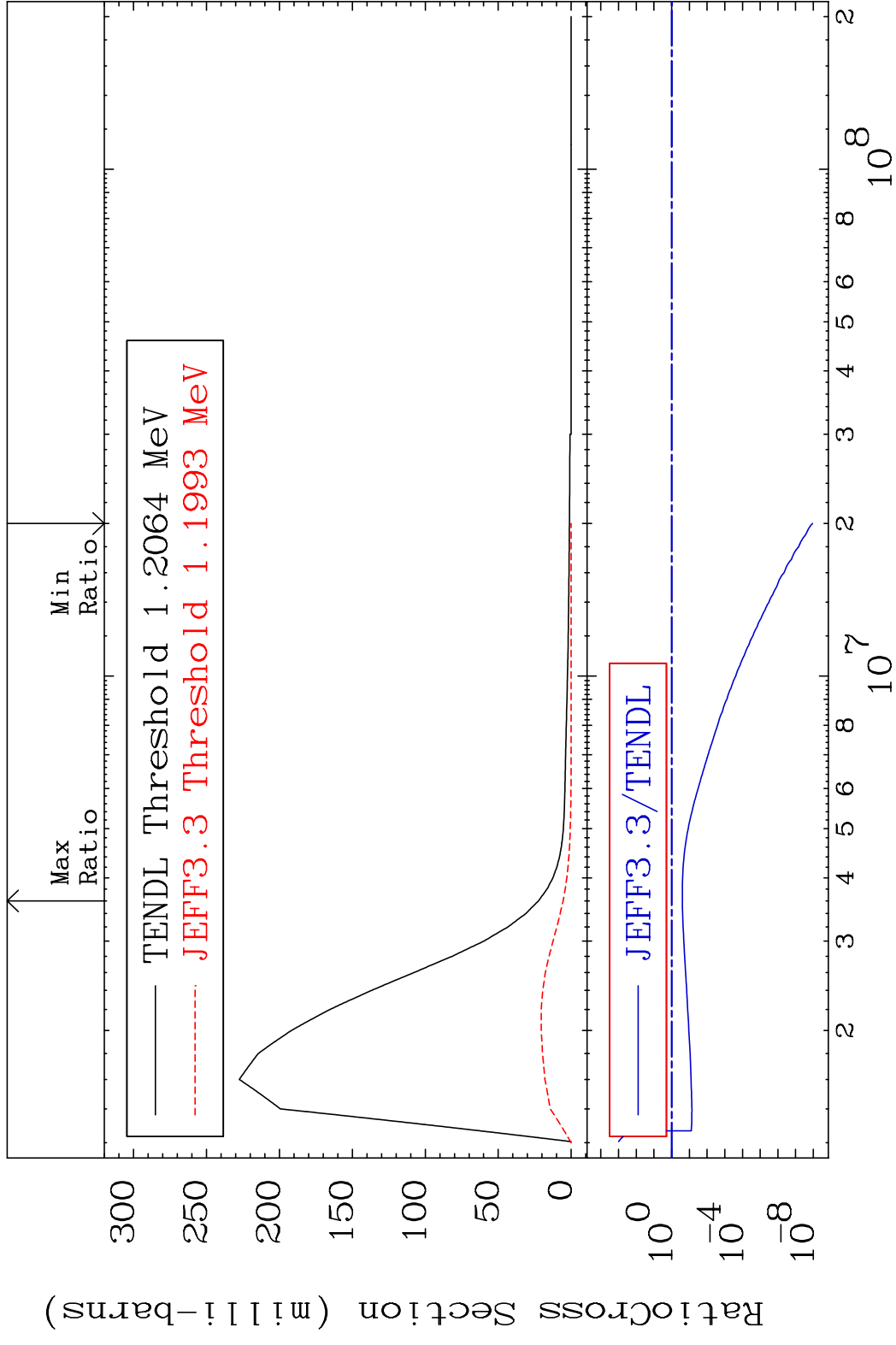
MAT 7243 MT= 58 (n, n') Level 72-Hf-180
 Cross Section -100.0 To -64.31%



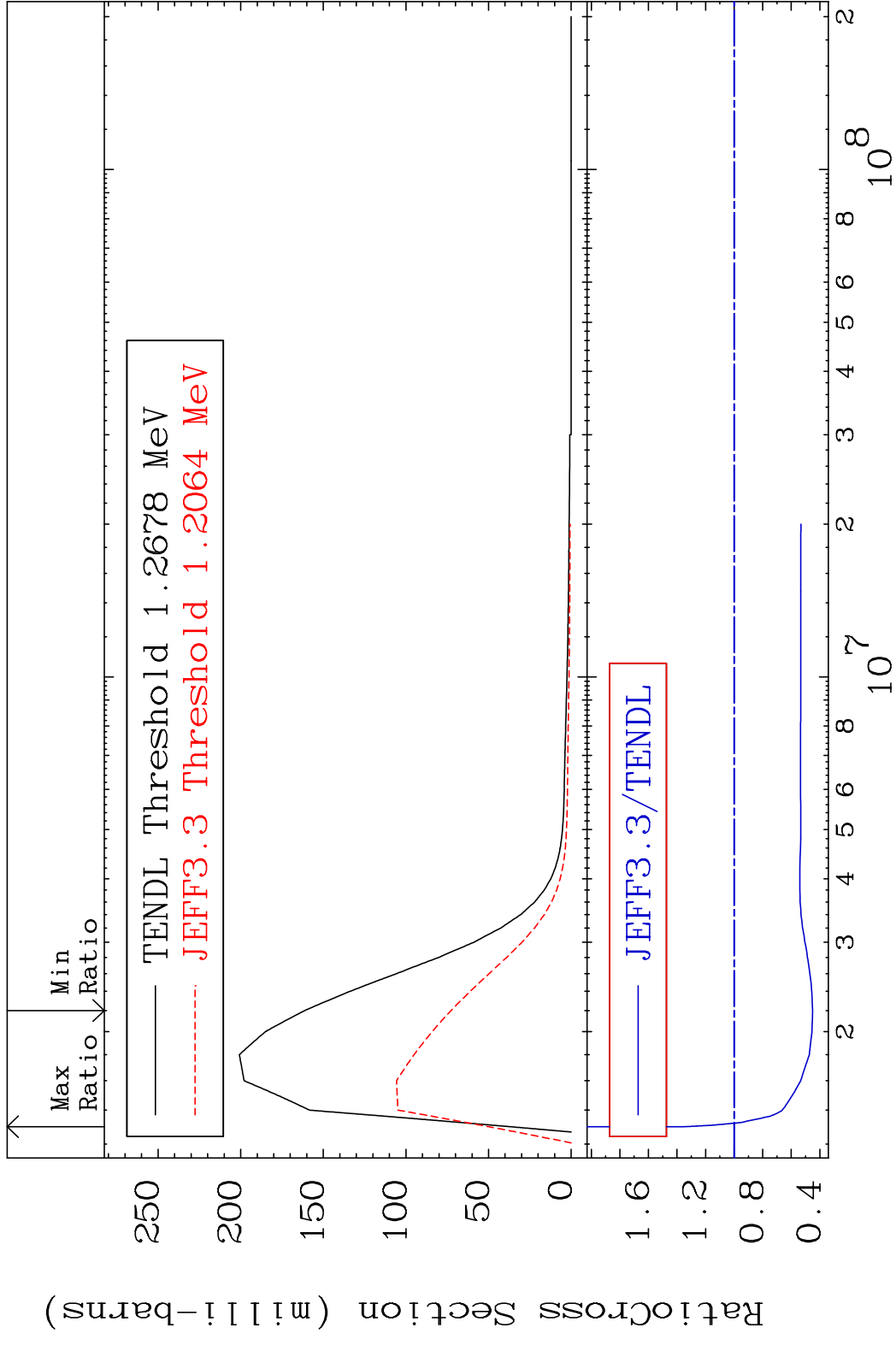
MAT 7243 MT= 59 (n, n') Level 72-Hf-180
 Cross Section 5.250 To 9999. %



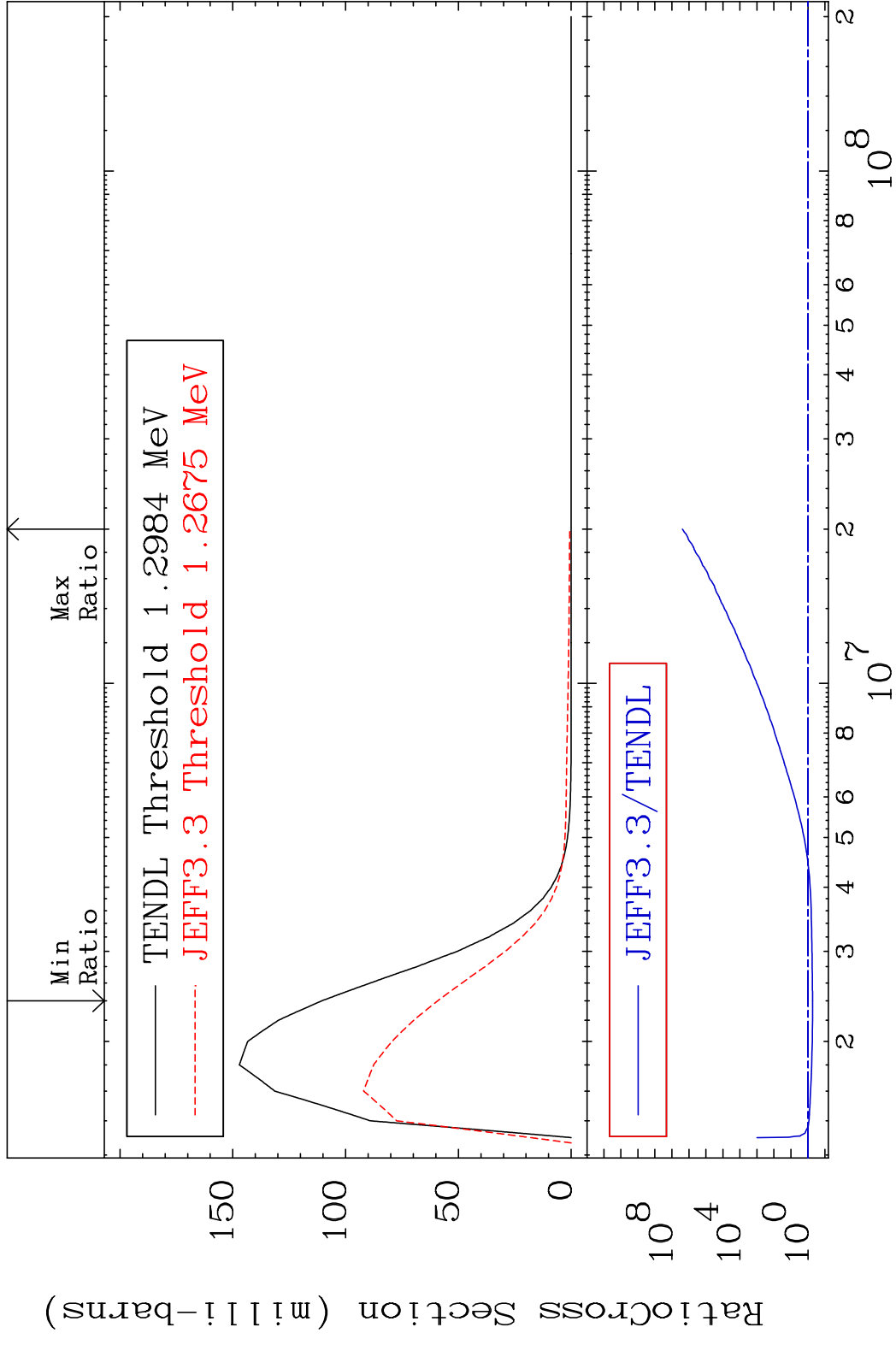
MAT 7243 MT= 60 (n, n') Level 72-Hf-180
 Cross Section -100.0 To -75.13%



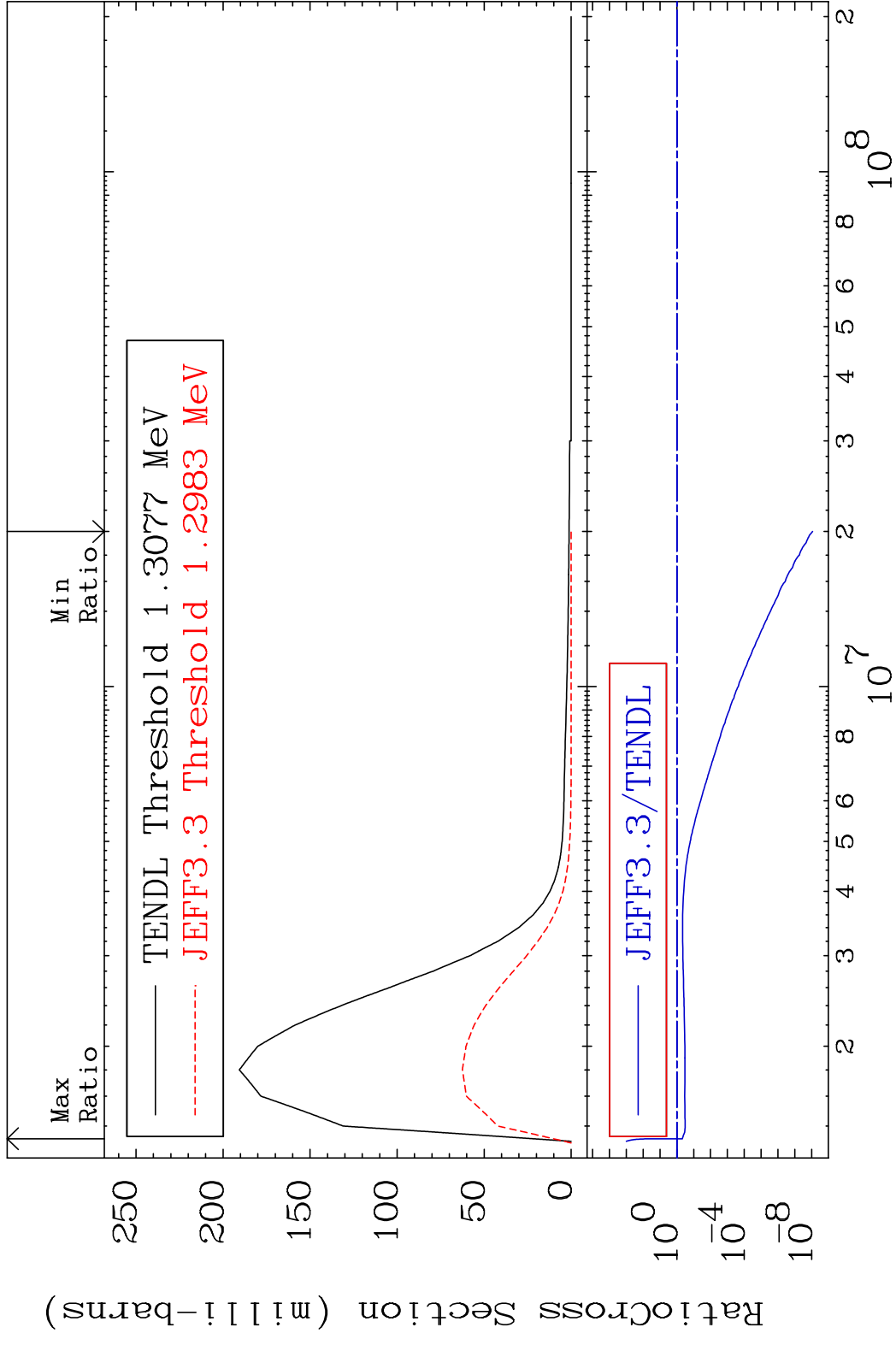
MAT 7243 MT= 61 (n,n') Level 72-Hf-180
 Cross Section -54.91 To 36.25 %



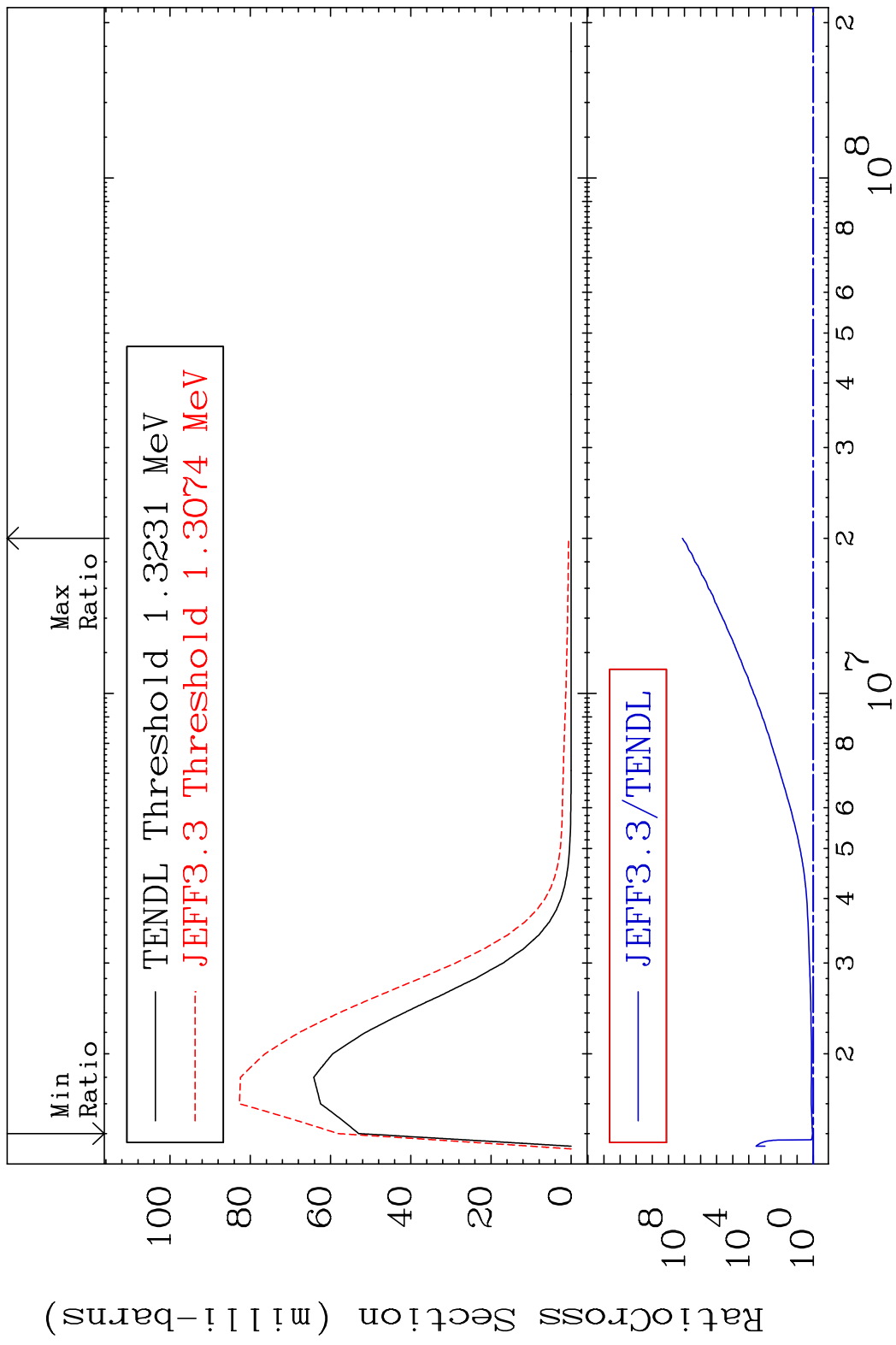
MAT 7243 MT= 62 (n, n') Level 72-Hf-180
 Cross Section -46.47 To 9999. %



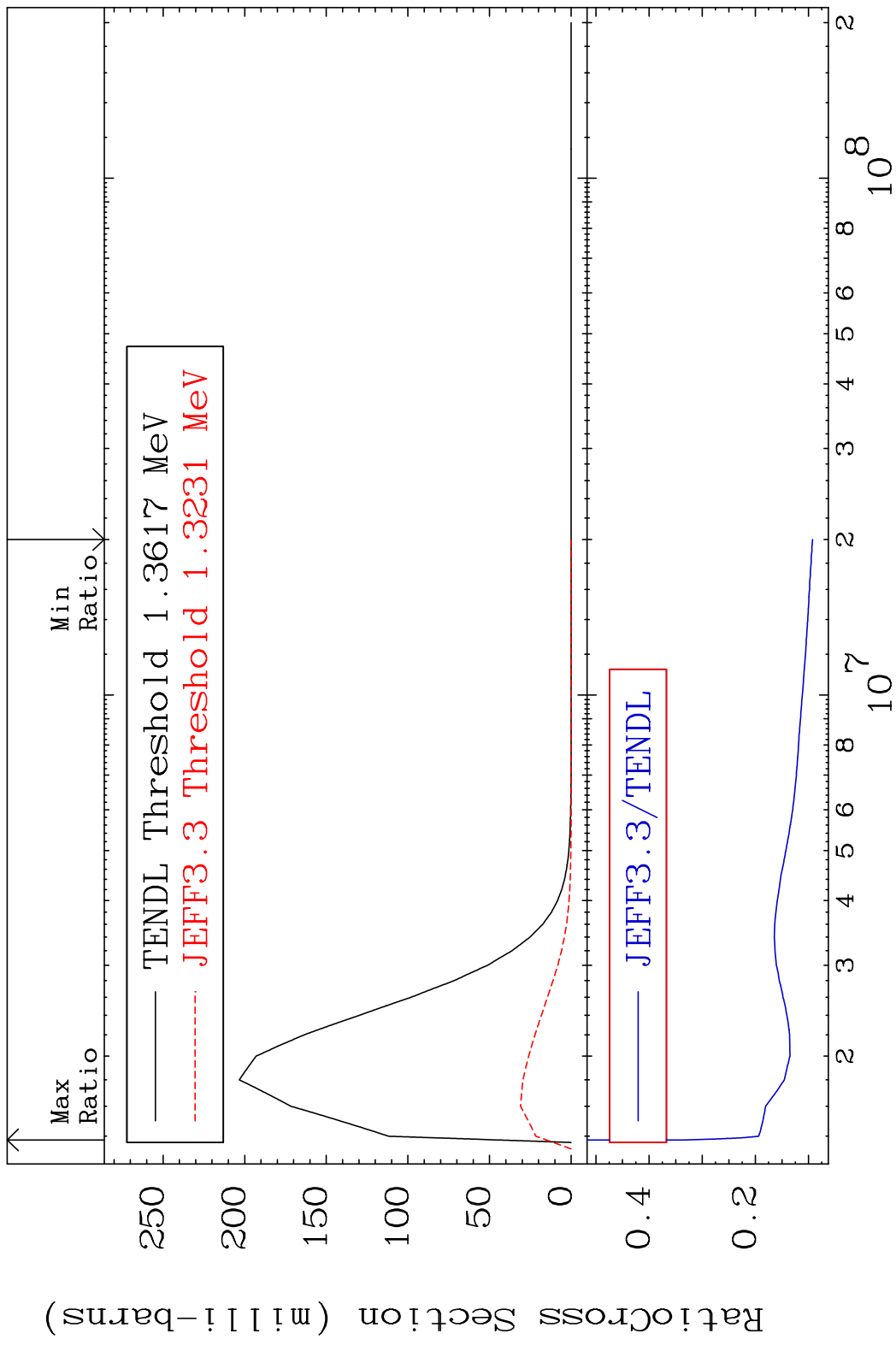
MAT 7243 MT= 63 (n, n') Level 72-Hf-180
 Cross Section -100.0 To -52.98%



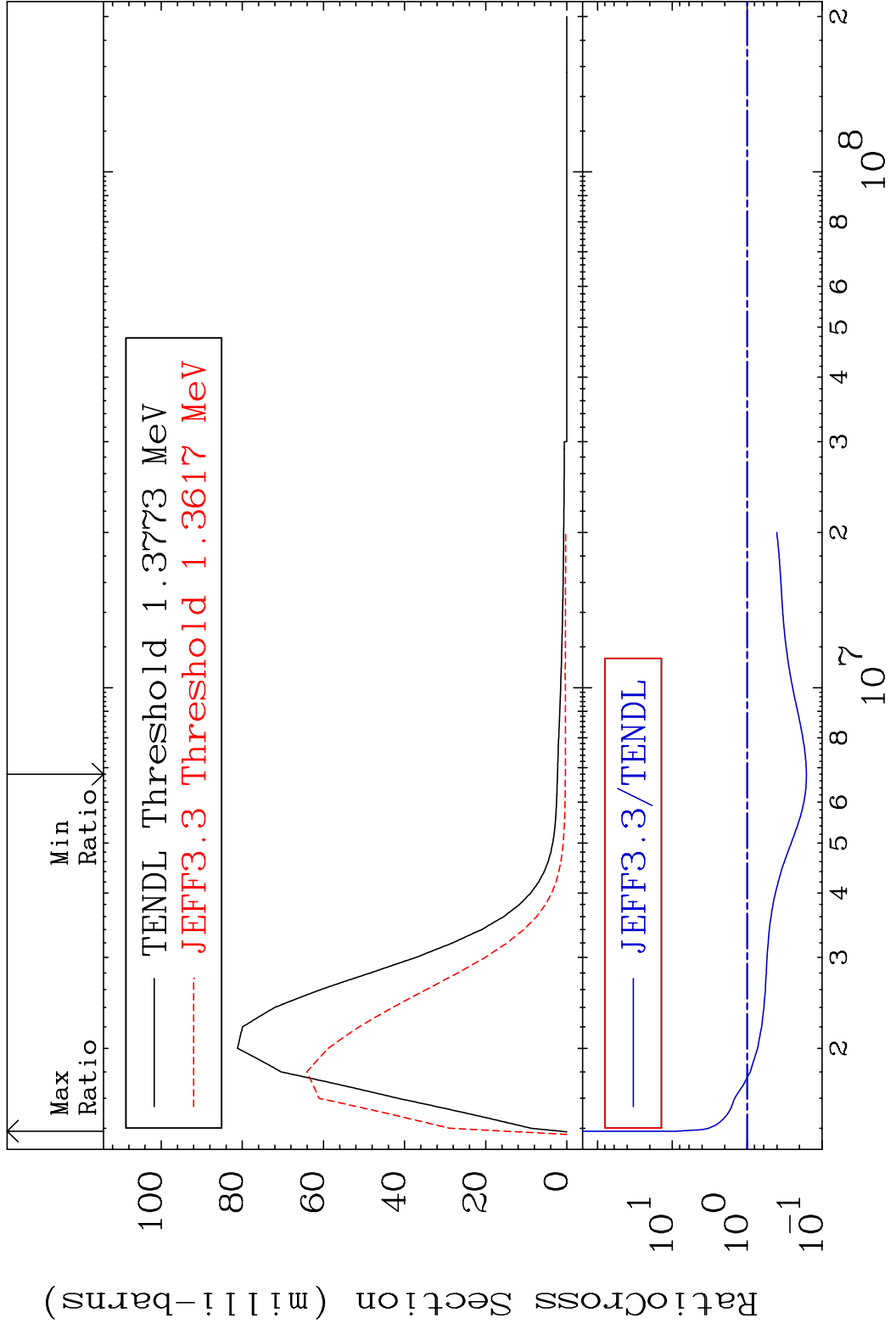
MAT 7243 MT= 64 (n, n') Level 72-Hf-180
 Cross Section 9.678 To 9999. %



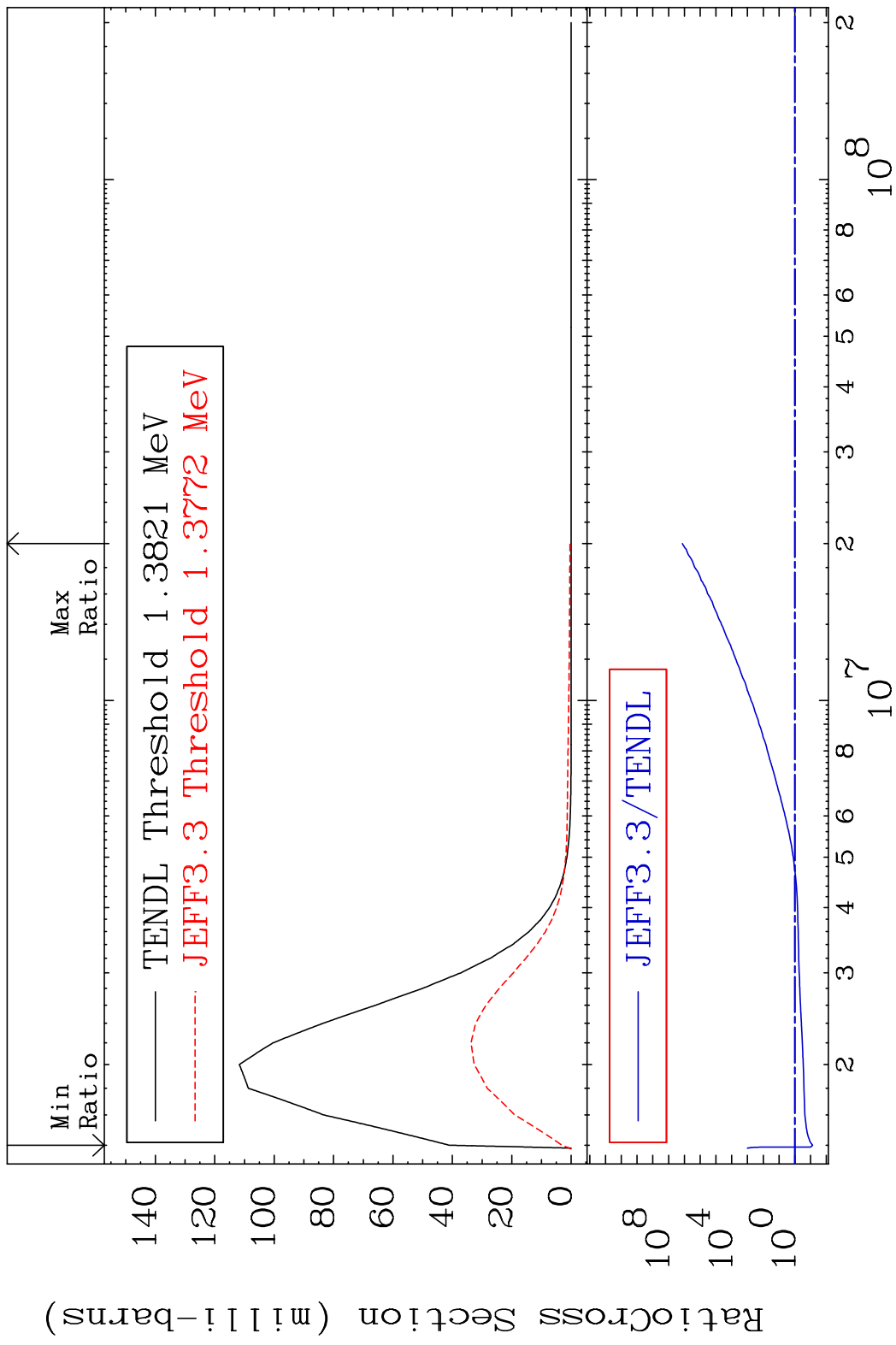
MAT 7243 MT= 65 (n, n') Level 72-Hf-180
 Cross Section -90.75 To -66.26%



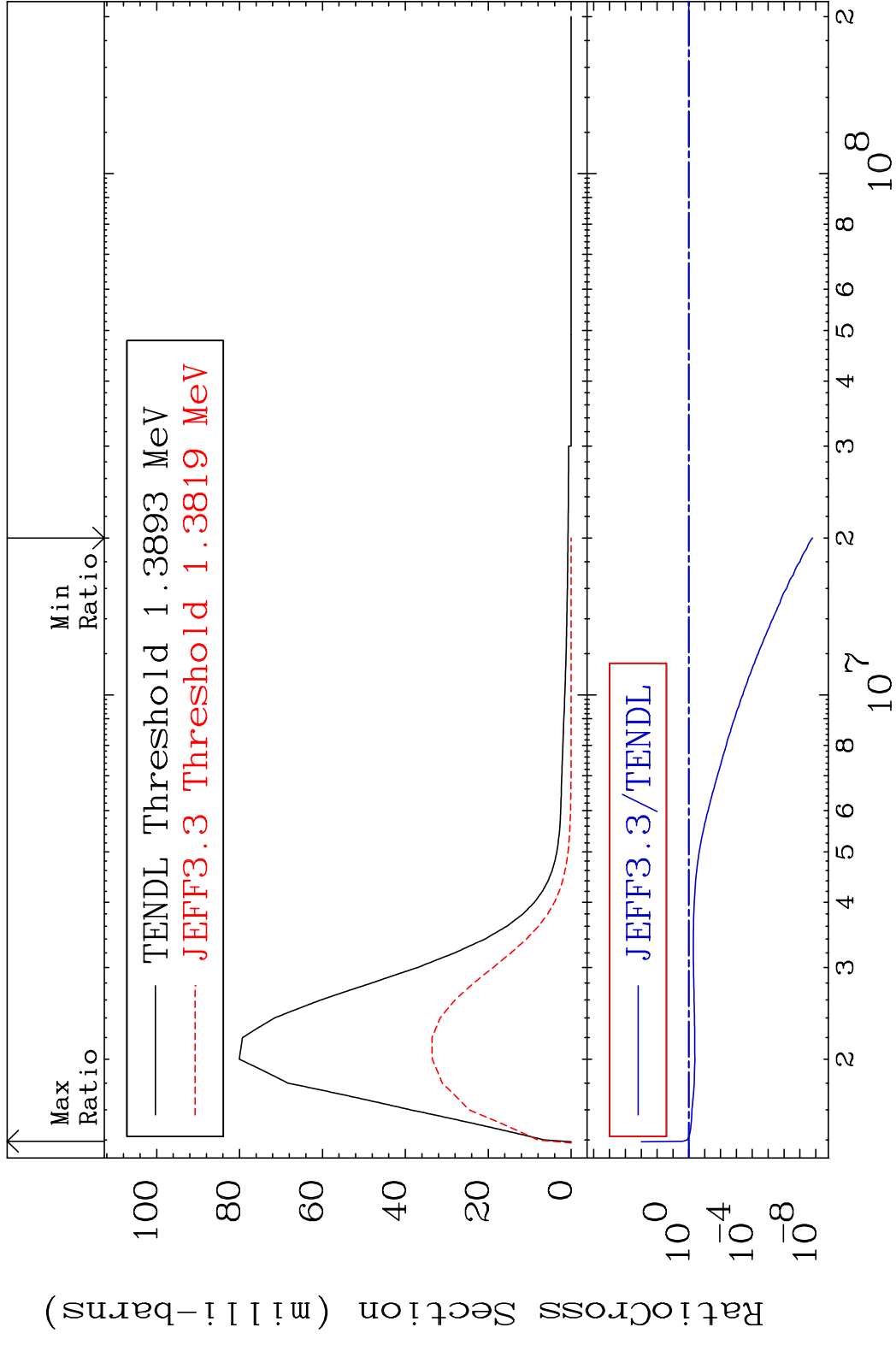
MAT 7243 MT= 66 (n,n') Level 72-Hf-180
 Cross Section -83.83 To 761.7 %



MAT 7243 MT= 67 (n, n') Level 72-Hf-180
 Cross Section -92.52 To 9999. %



MAT 7243 MT= 68 (n, n') Level 72-Hf-180
 Cross Section -100.0 To 155.9 %

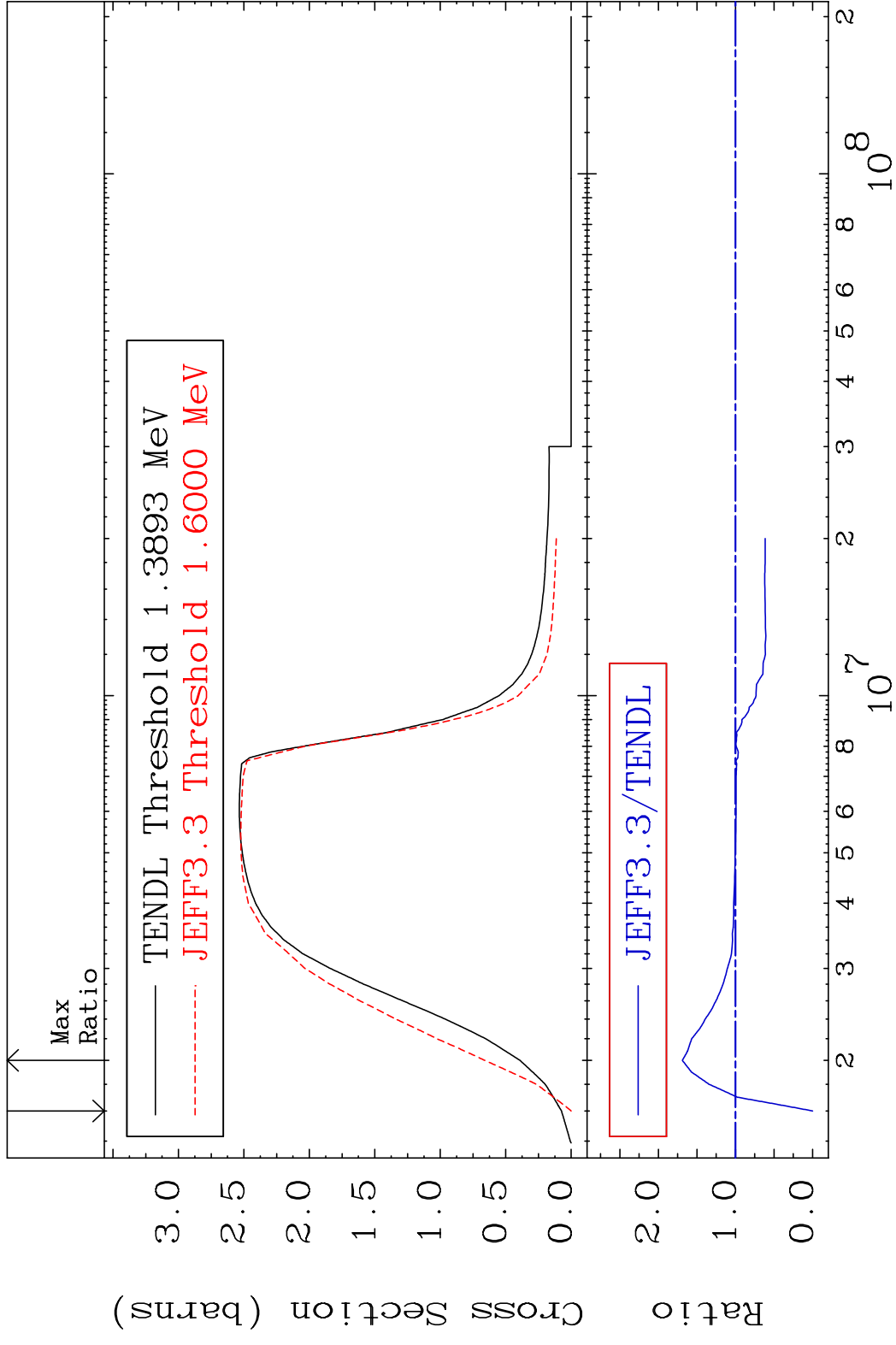


MAT 7243

(n, n') Continuum

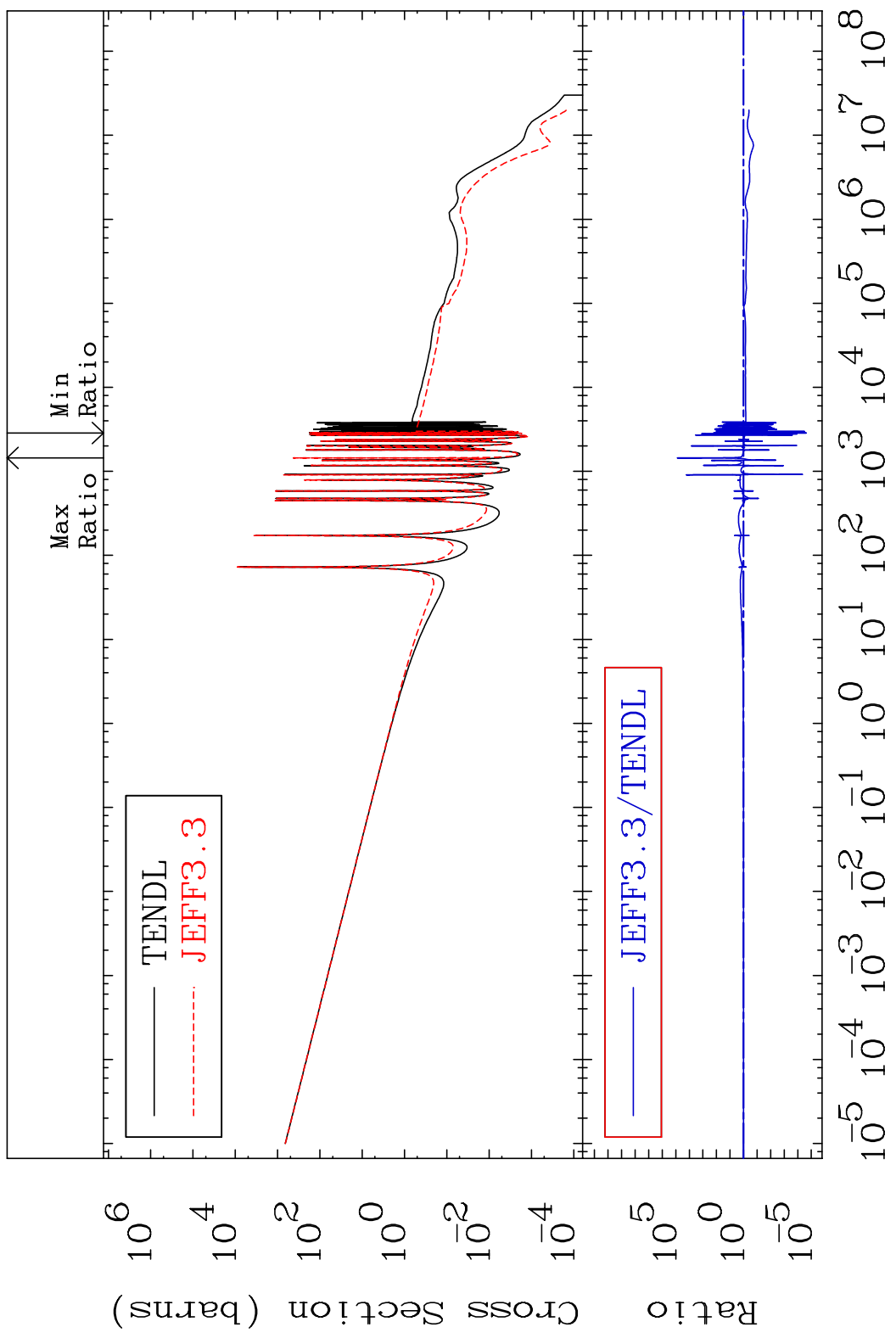
72-Hf-180

Cross Section -100.0 To 68.95 %



MAT 7243

(n, γ)
Cross Section -100.0 To 9999. %
72-Hf-180

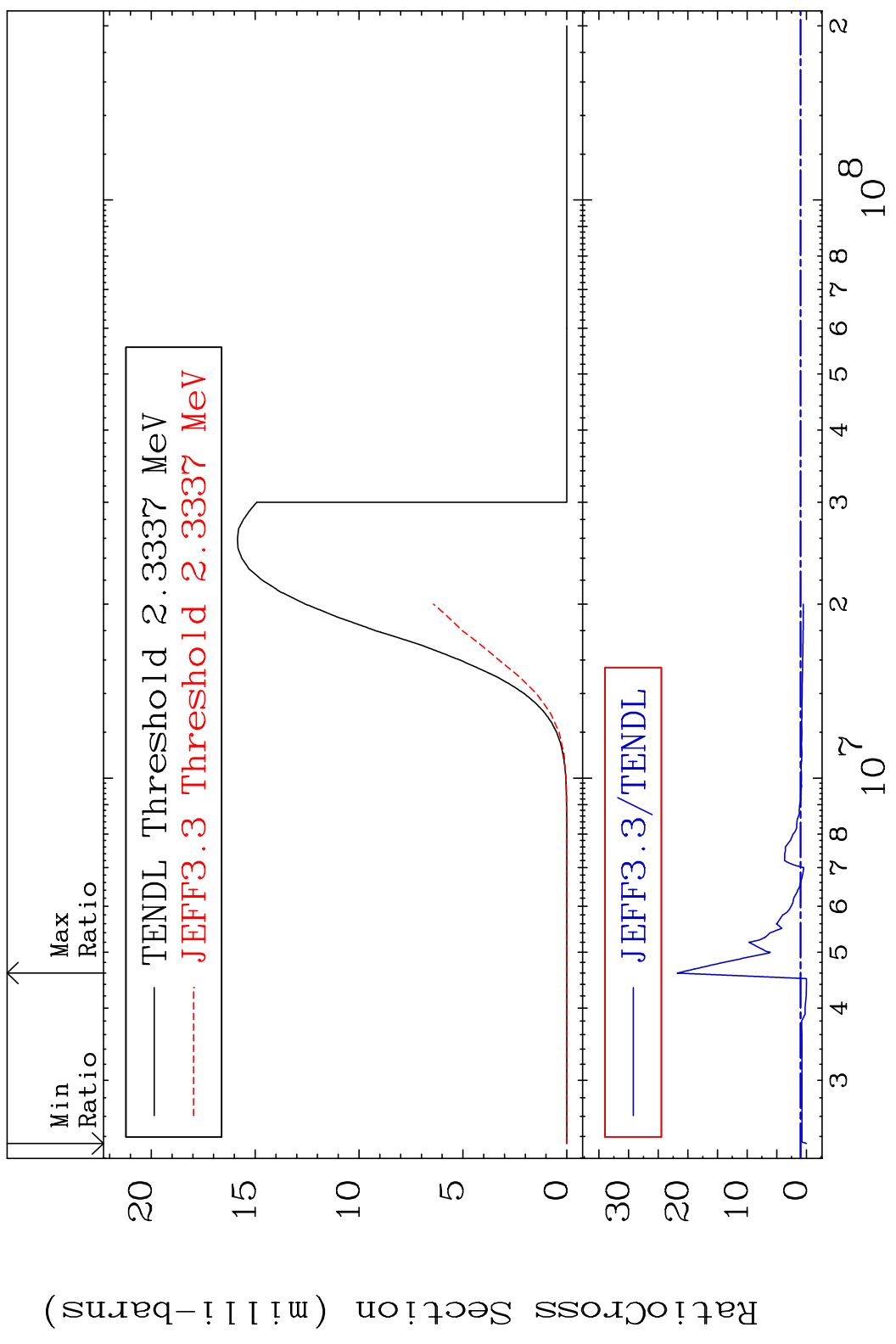


MAT 7243

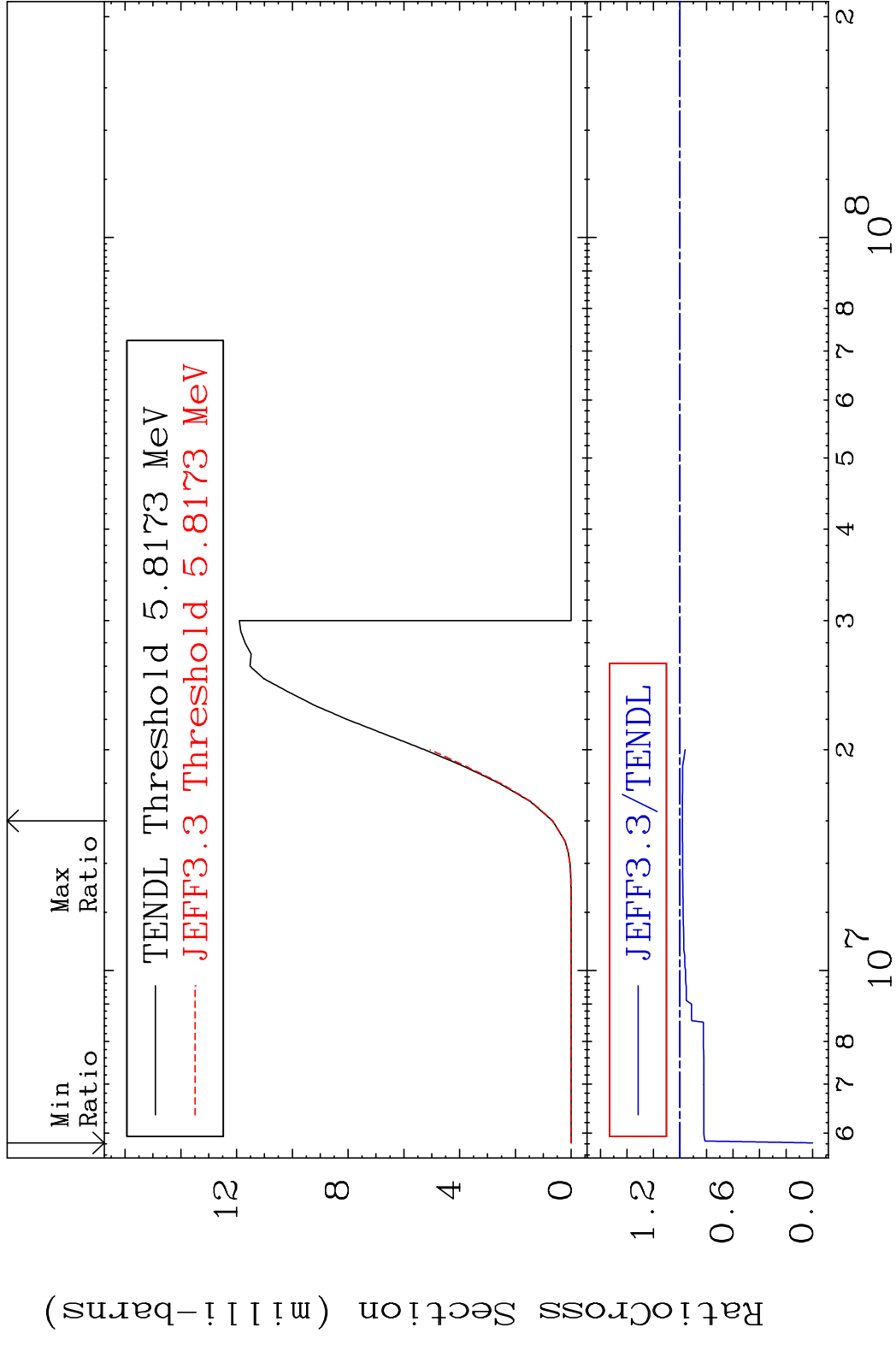
(n,p)

72-Hf-180

Cross Section -100.0 To 2081. %



MAT 7243 (n,d) 72-Hf-180
 Cross Section -100.0 To -1.792%

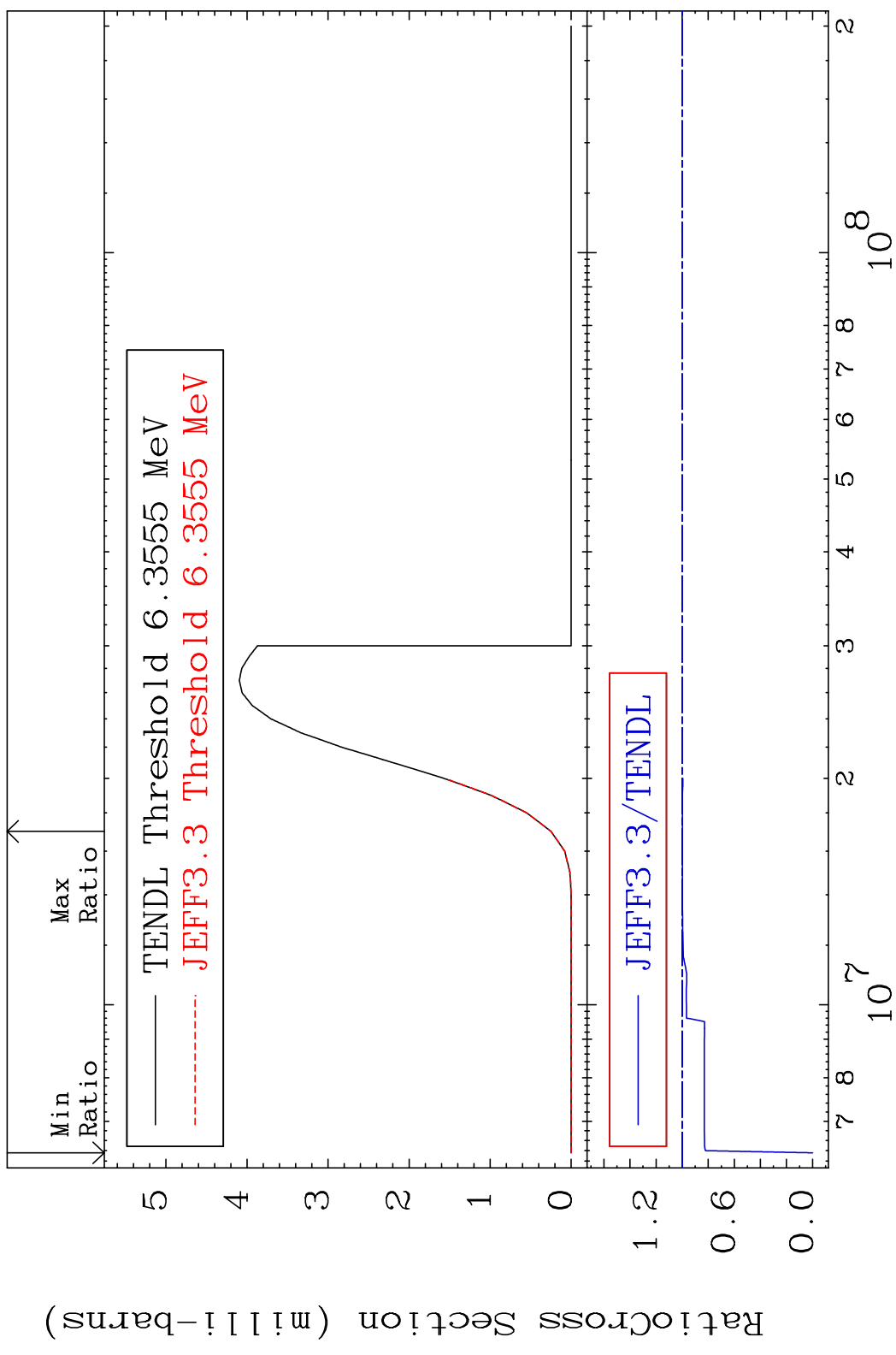


MAT 7243

(n, t)

72-Hf-180

Cross Section -100.0 To -0.152%

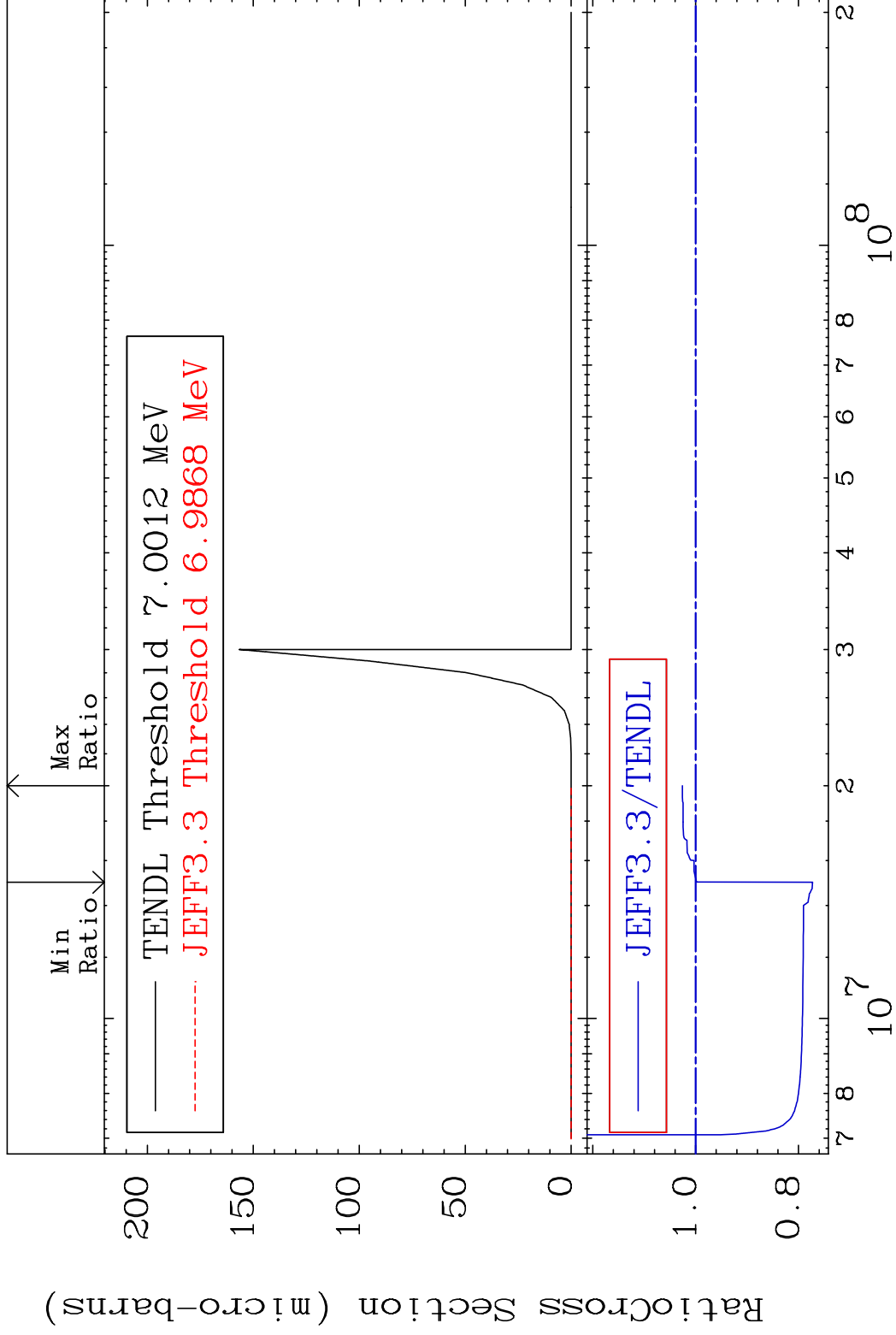


MAT 7243

(n, He-3)

72-Hf-180

Cross Section -22.72 To 2.588 %



36

Incident Energy (eV)

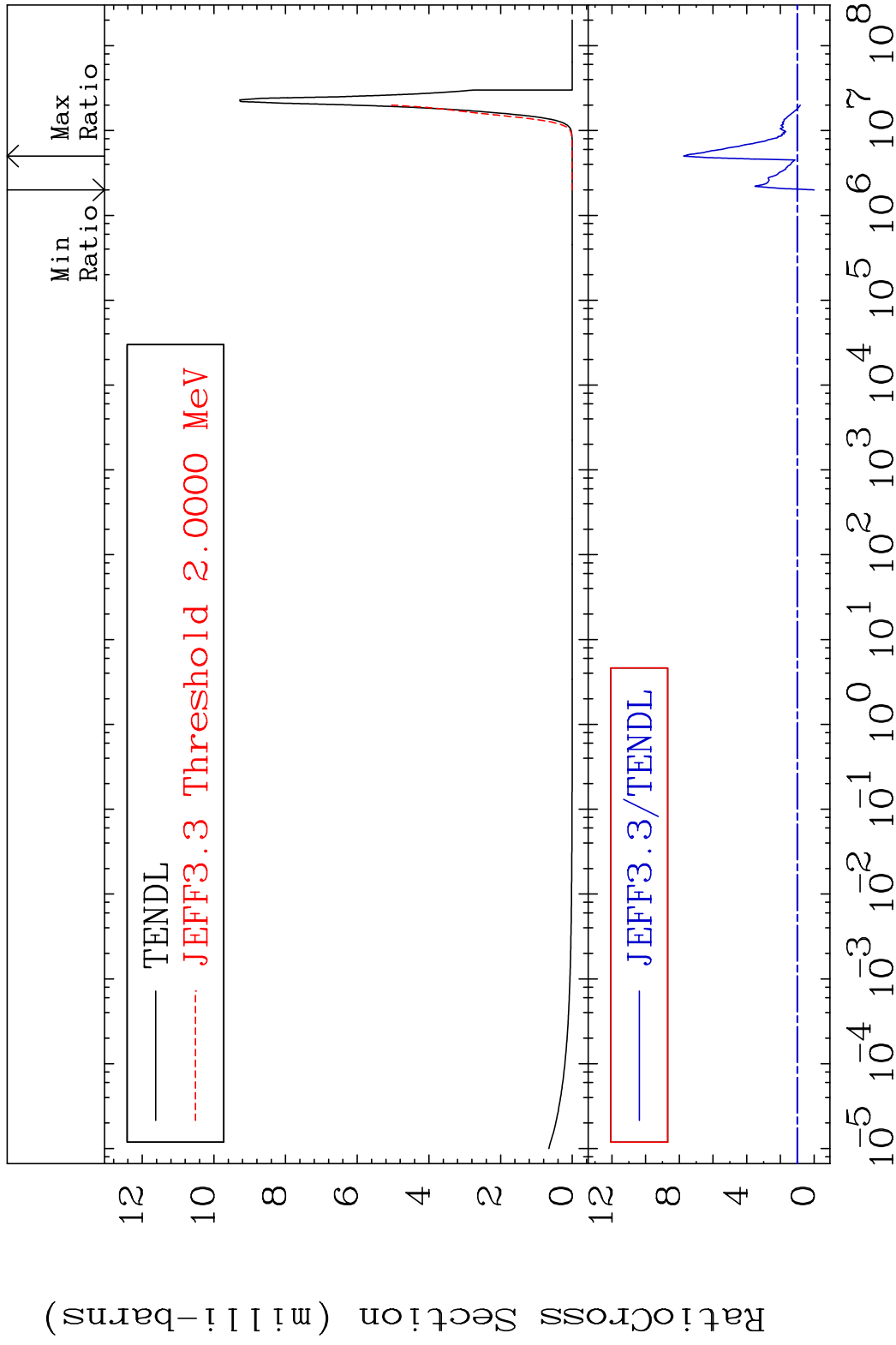
72-Hf-180

MAT 7243

(n, α)

72-Hf-180

Cross Section -100.0 To 674.2 %

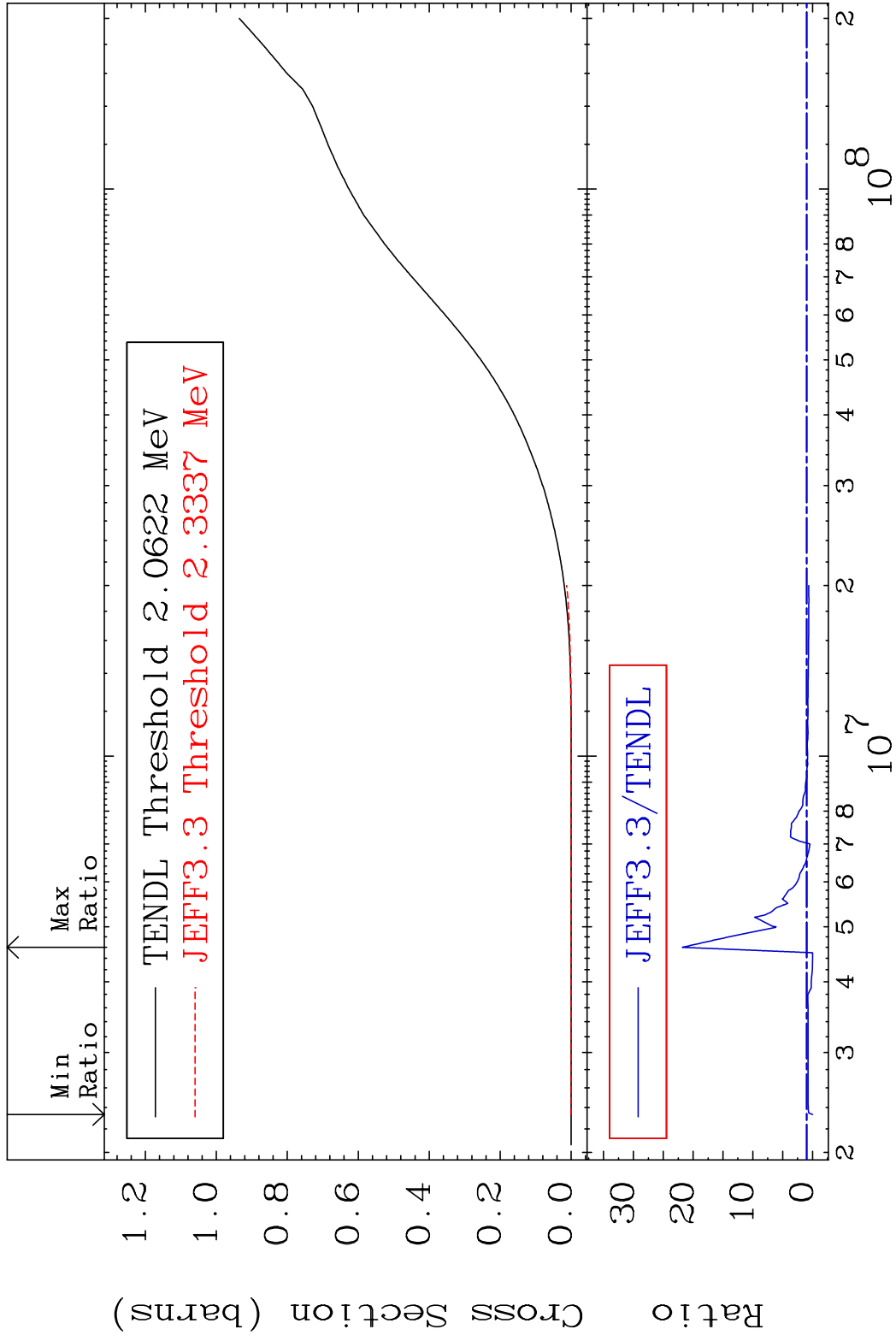


37

Incident Energy (eV)

72-Hf-180

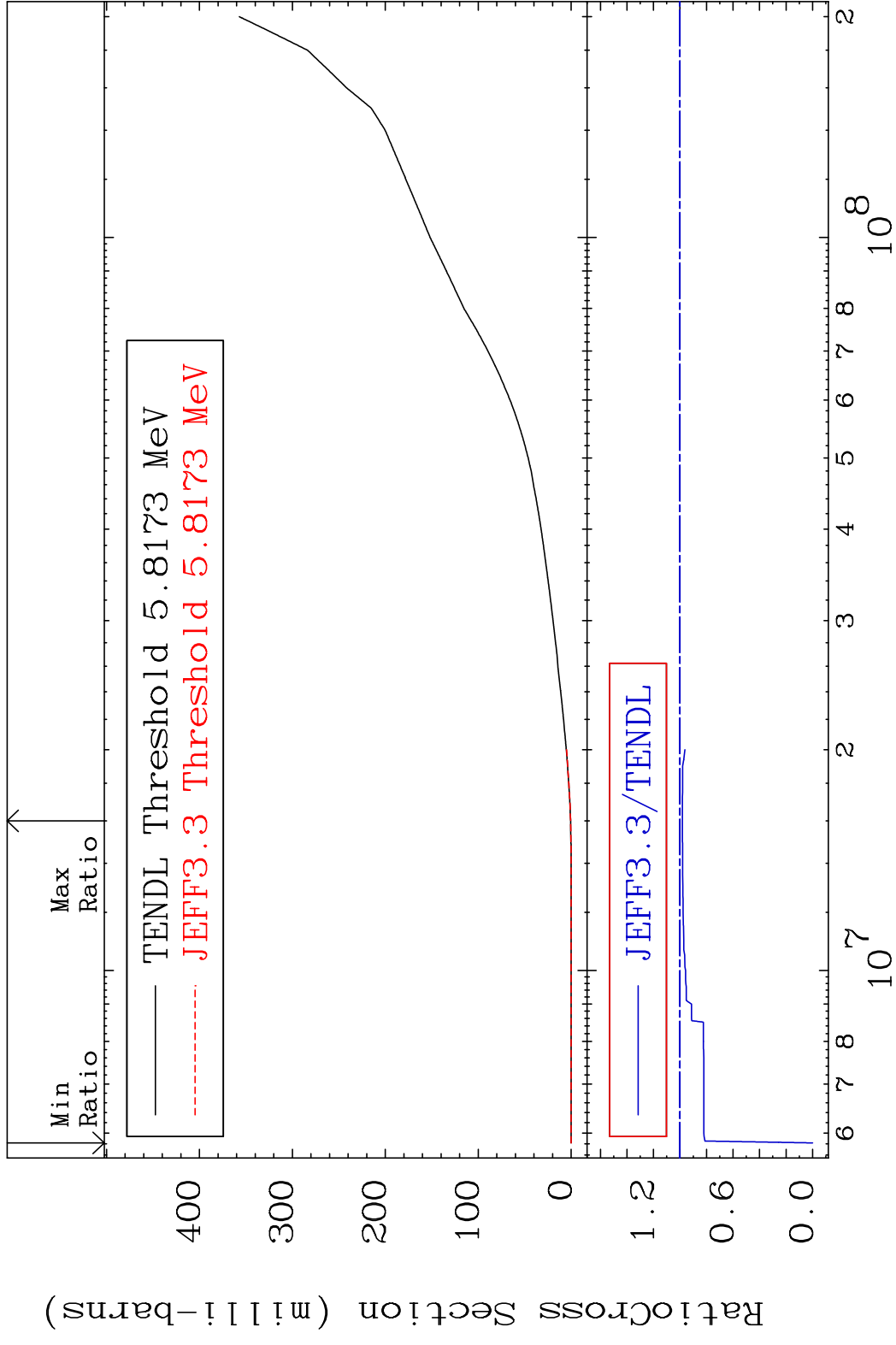
Cross Section -100.0 To 2081. %



MAT 7243

Deuterium Production
Cross Section -100.0 To -1.792%

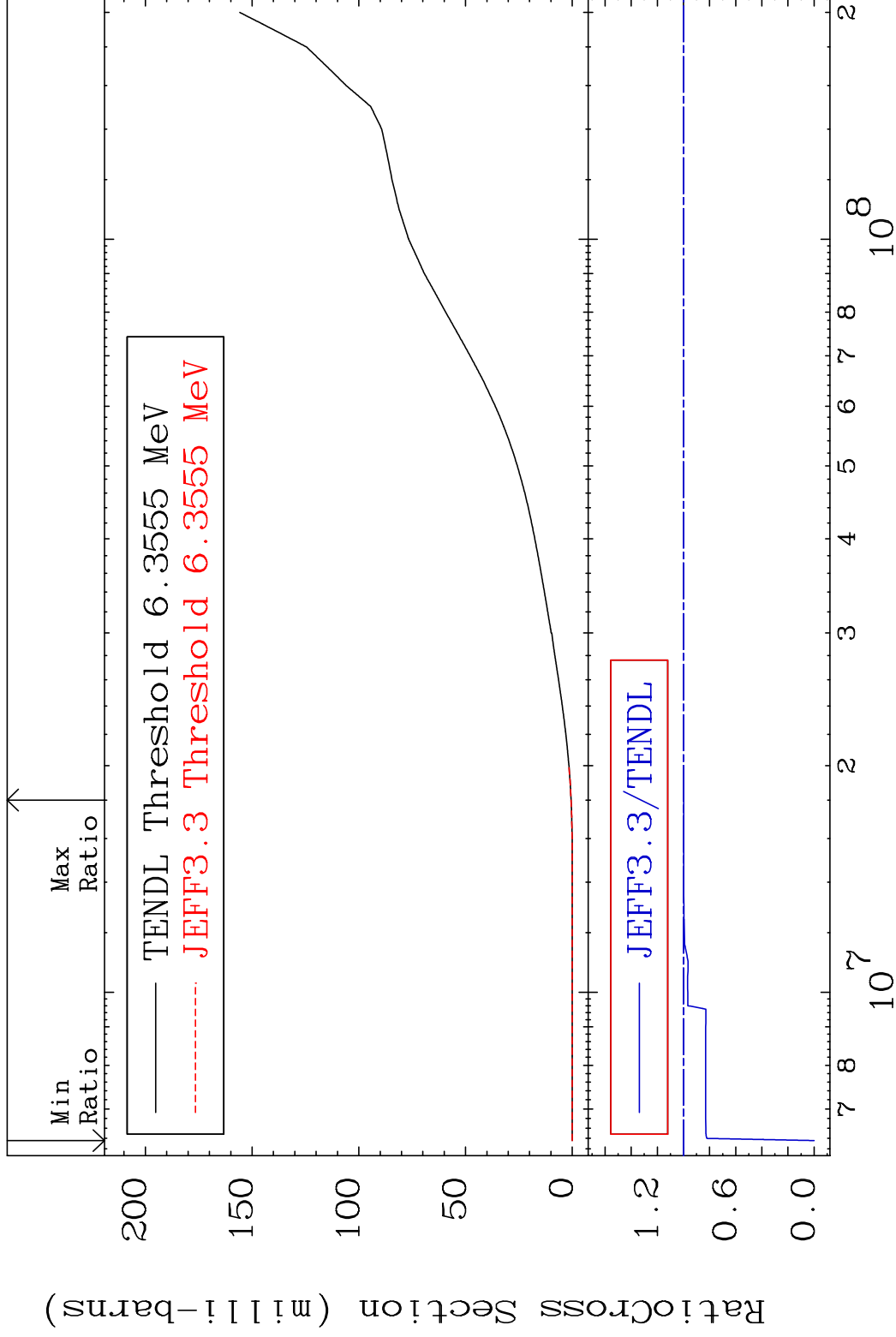
72-Hf-180



MAT 7243

Tritium Production 72-Hf-180

Cross Section -100.0 To -0.150%



40

Incident Energy (eV)

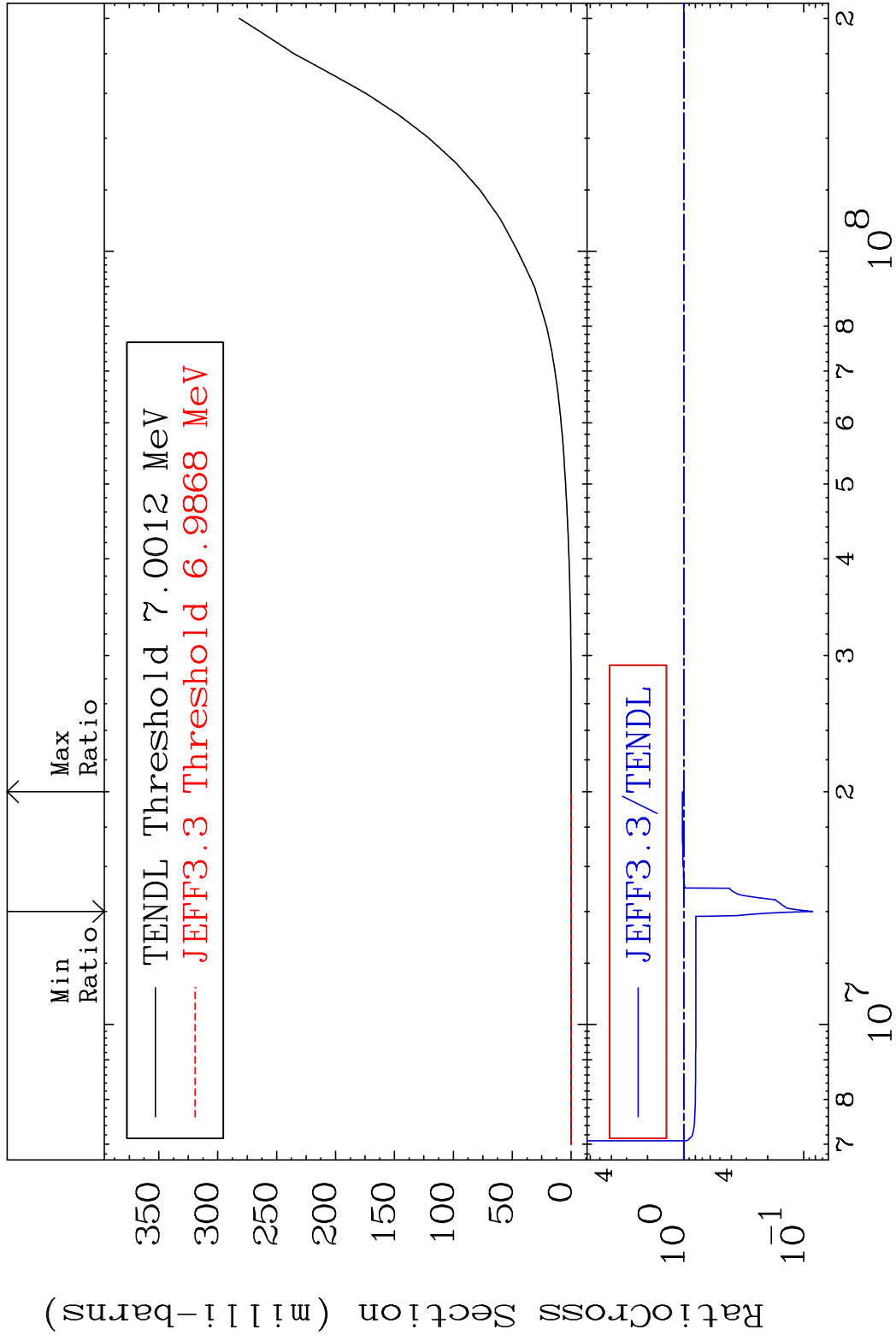
72-Hf-180

MAT 7243

He-3 Production

72-Hf-180

Cross Section -91.56 To 2.588 %



41

Incident Energy (eV)

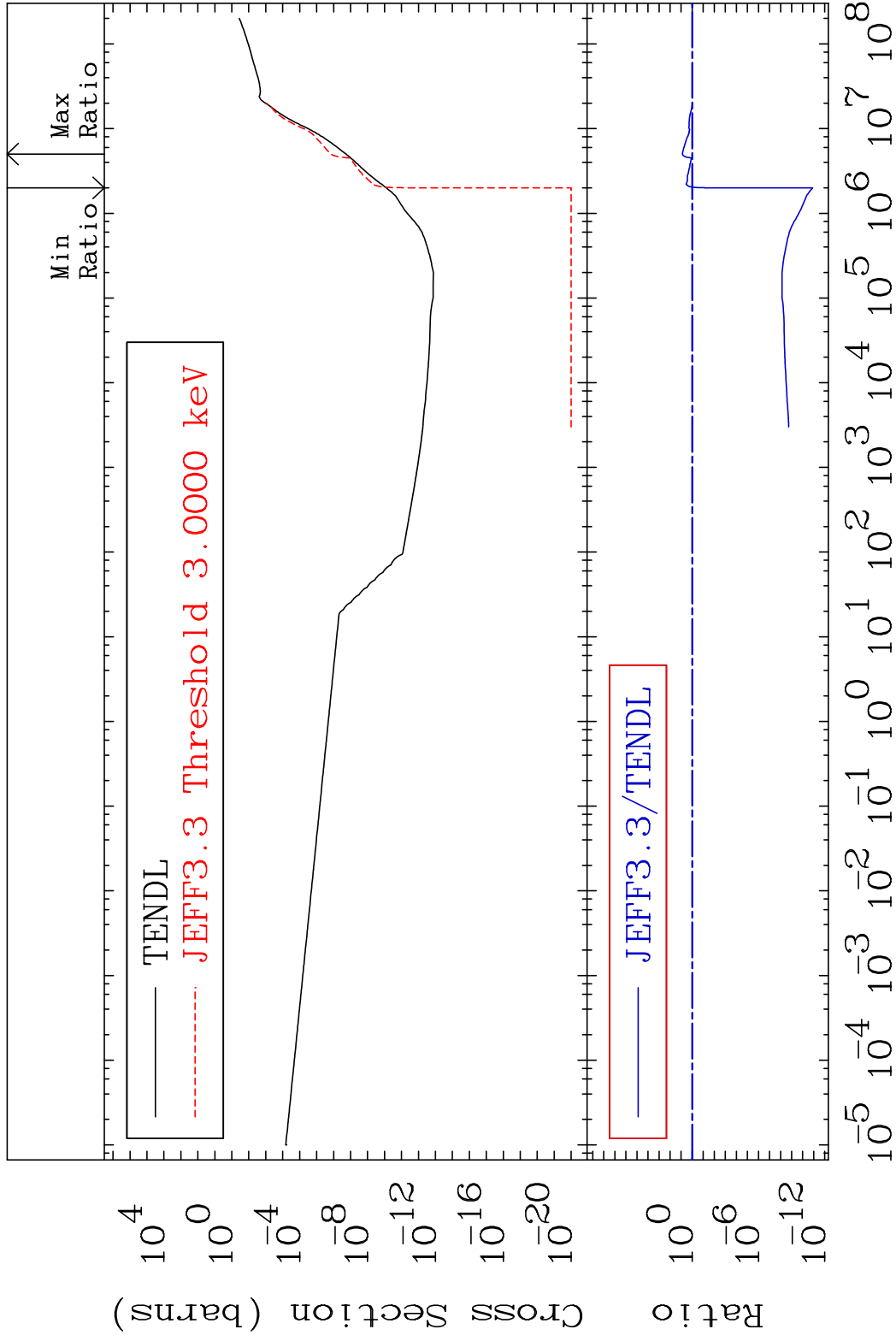
72-Hf-180

MAT 7243

He-4 Production

72-Hf-180

Cross Section -100.0 To 674.4 %

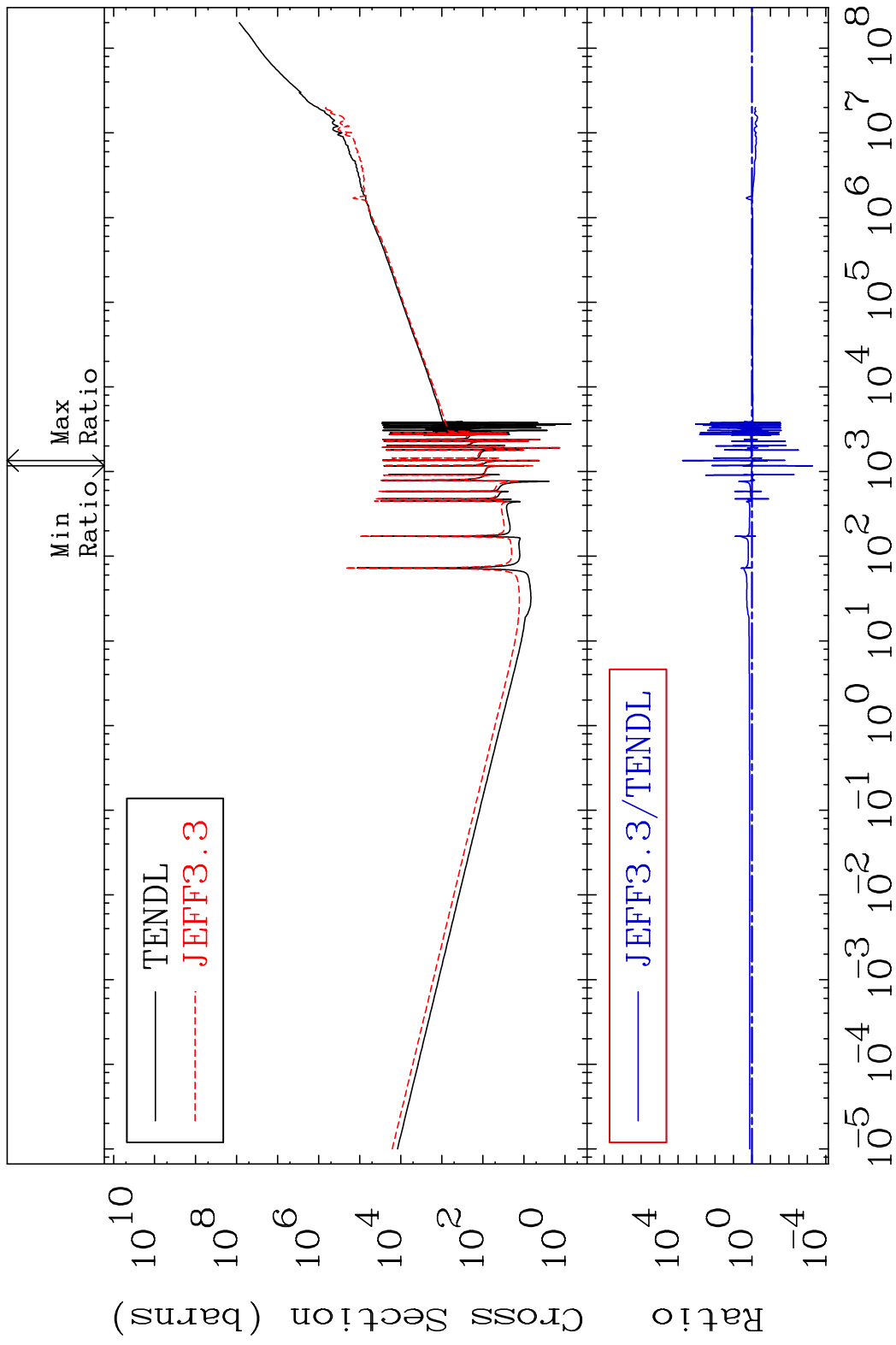


42

Incident Energy (eV)

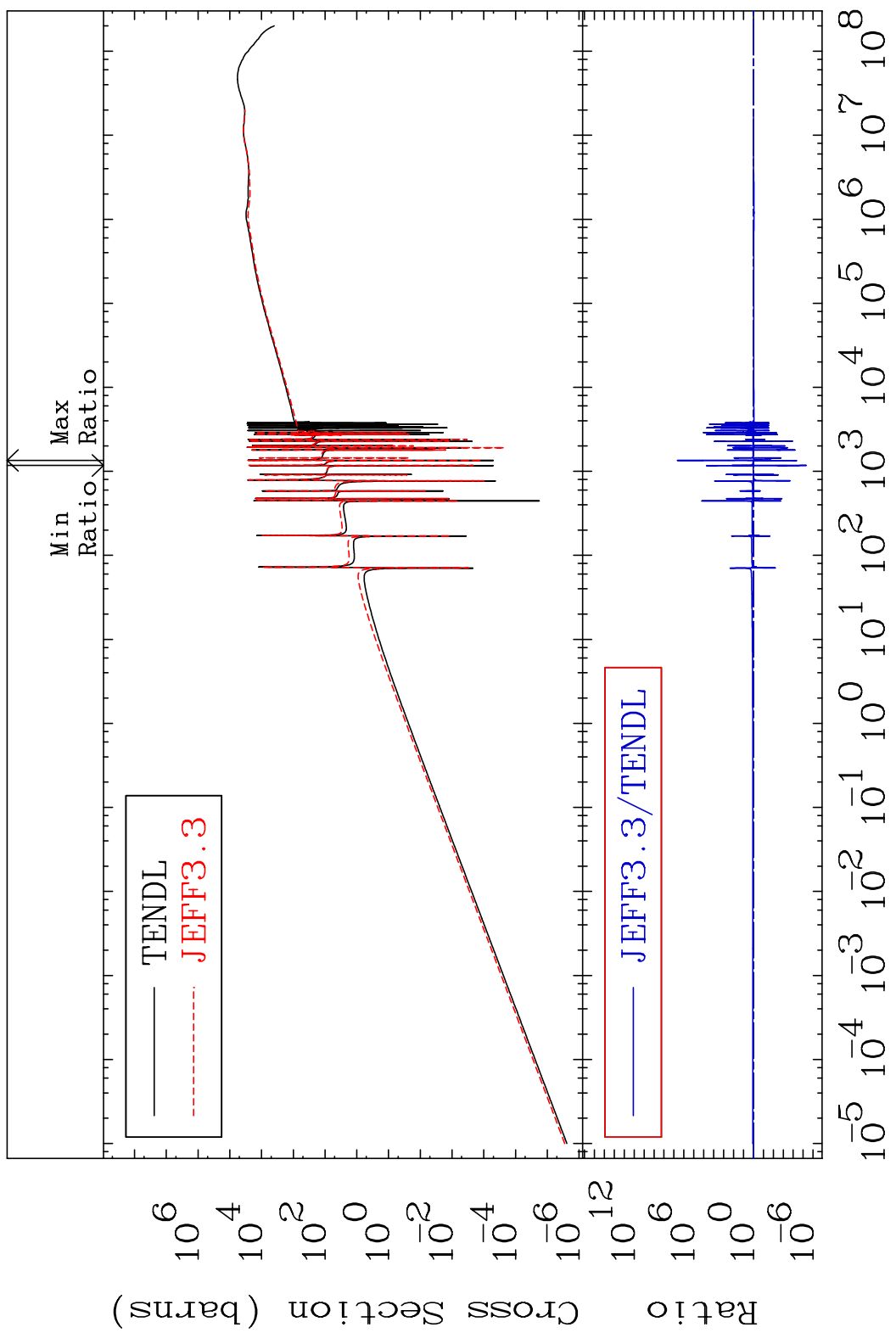
72-Hf-180

MAT 7243 Kerma total (eV-barns) 72-Hf-180
 Cross Section -99.95 To 9999. %

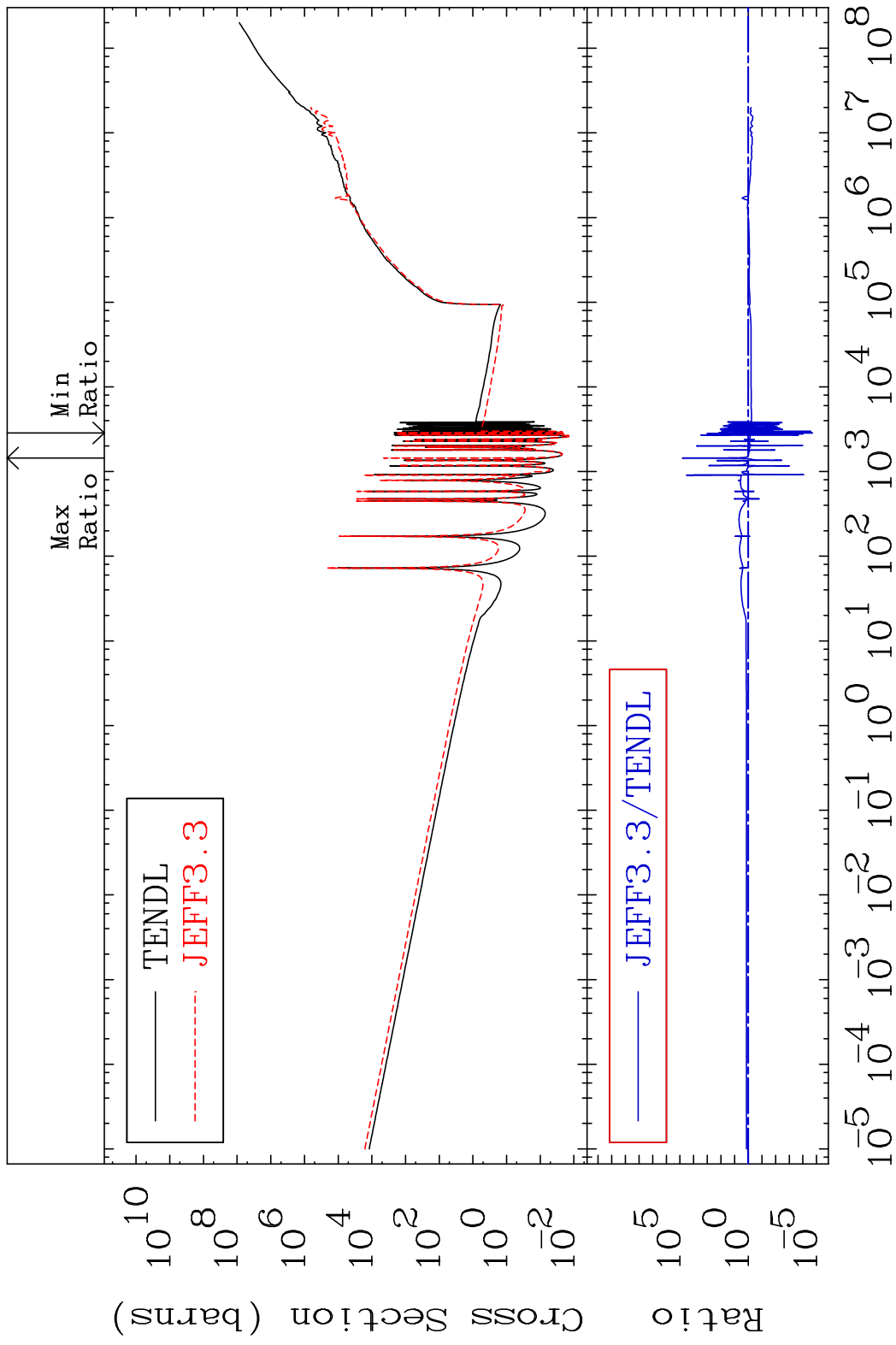


MAT 7243

Kerma elastic Cross Section -100.0 To 9999. %
72-Hf-180



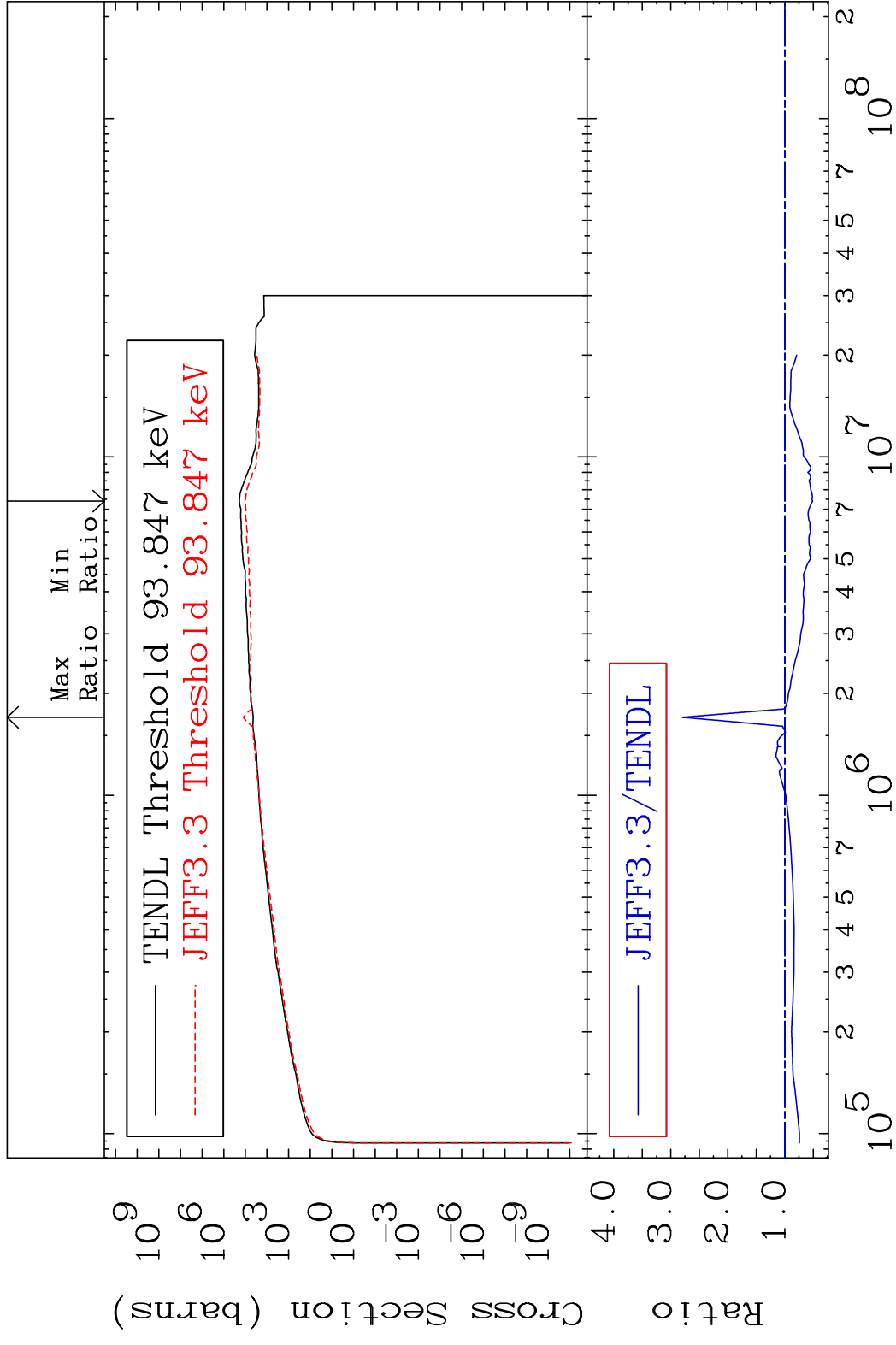
MAT 7243 Kerma non-elastic (all but mt2) 72-Hf-180
 Cross Section -100.0 To 9999. %



45 Incident Energy (eV) 72-Hf-180

MAT 7243

Kerma inelastic (mt51-91) 72-Hf-180
Cross Section -48.85 To 179.7 %

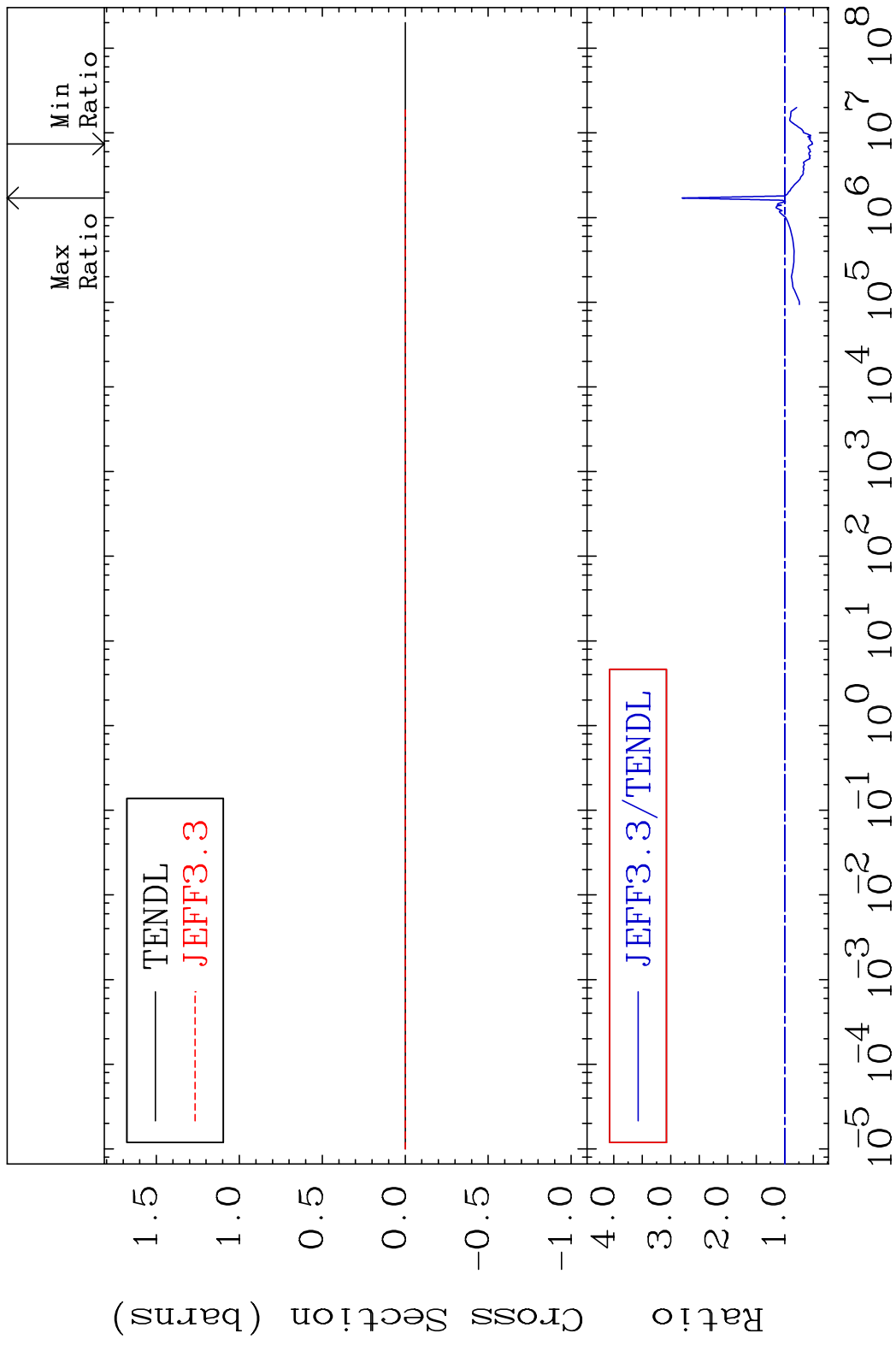


46

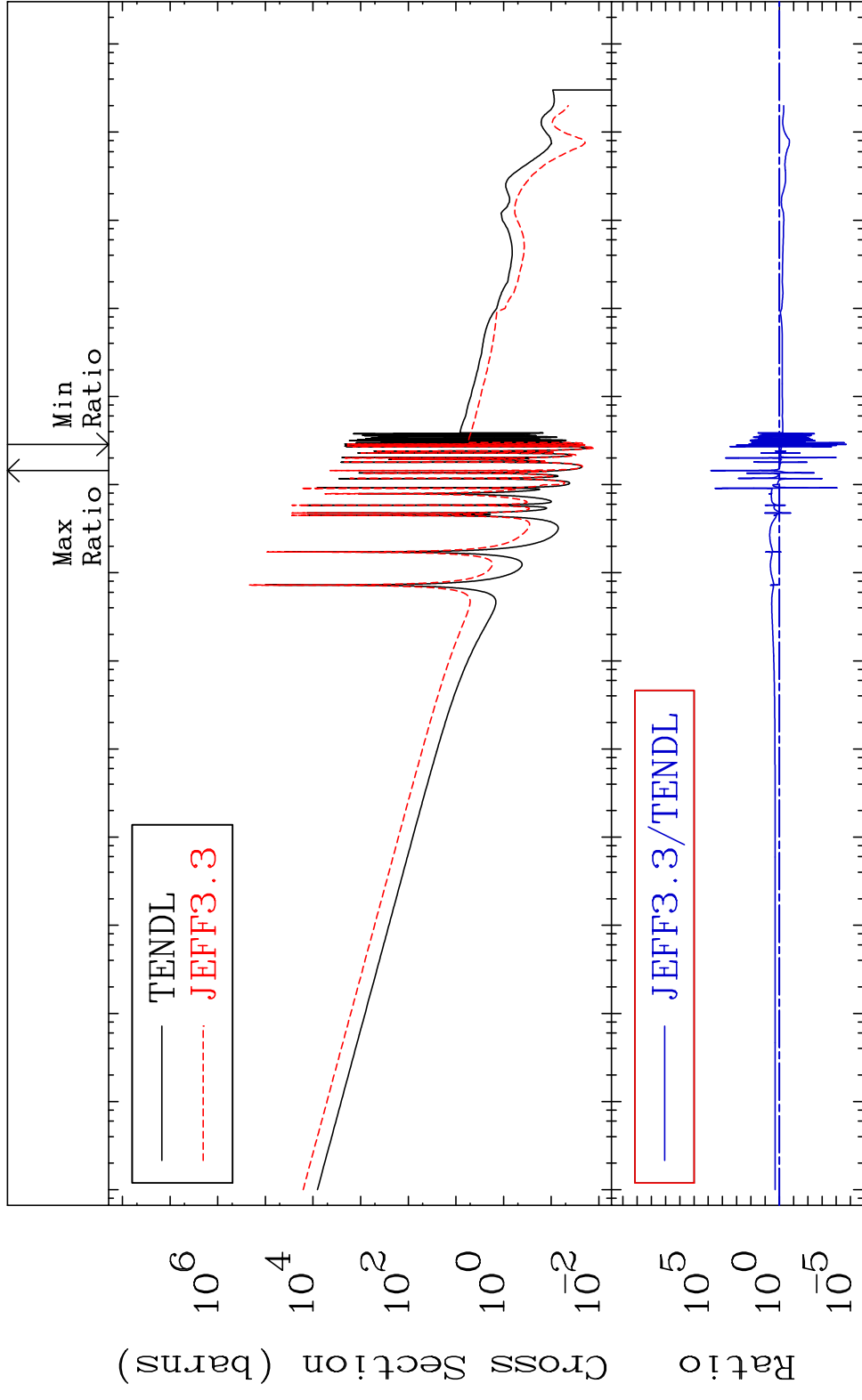
Incident Energy (eV)

72-Hf-180

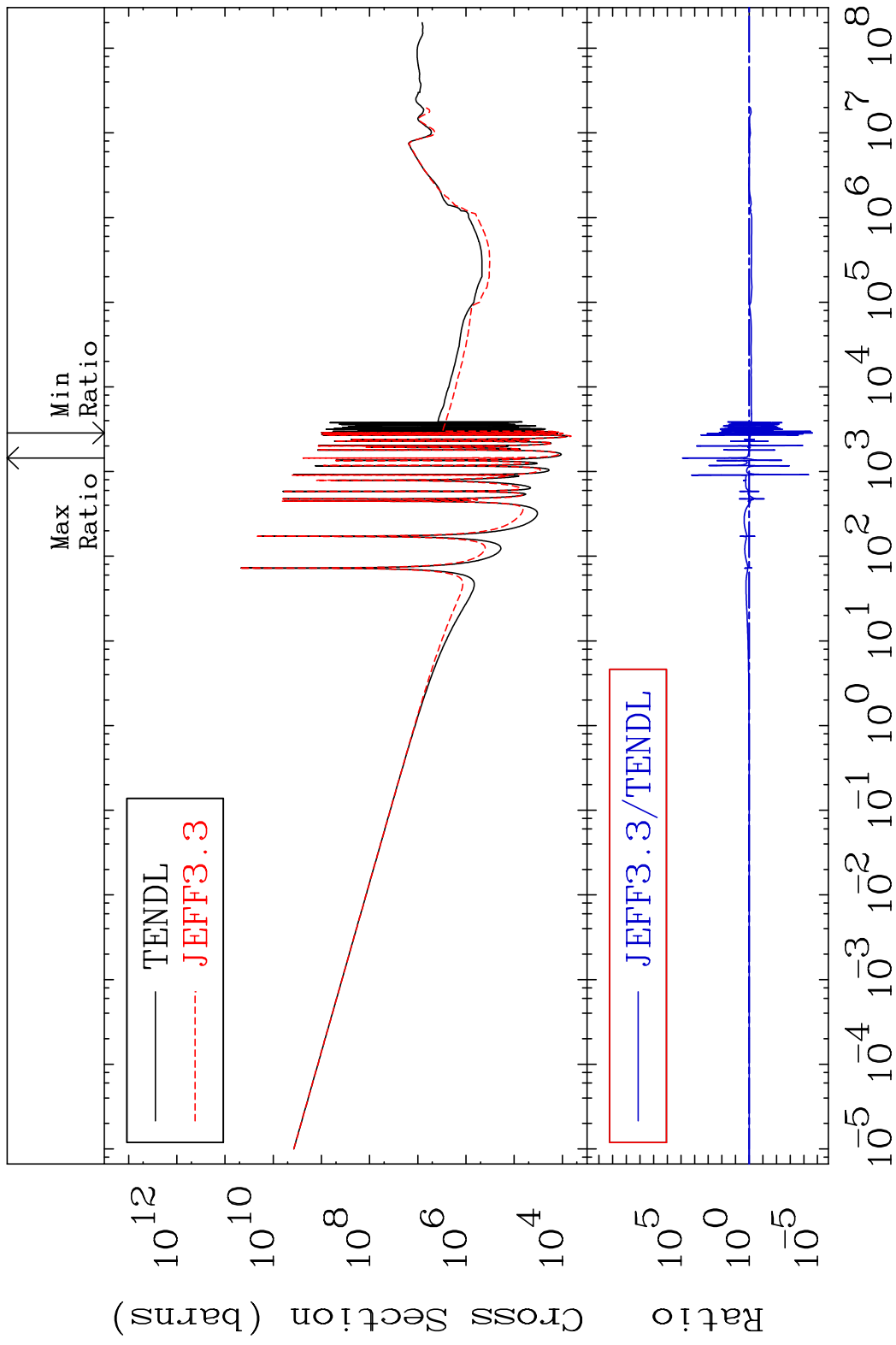
MAT 7243 Kerma fission (mt18 or mt19-20-21-38) 72-Hf-180
 Cross Section -48.85 To 179.7 %



MAT 7243 Kerma capture (mt102) 72-Hf-180
 Cross Section -100.0 To 9999. %

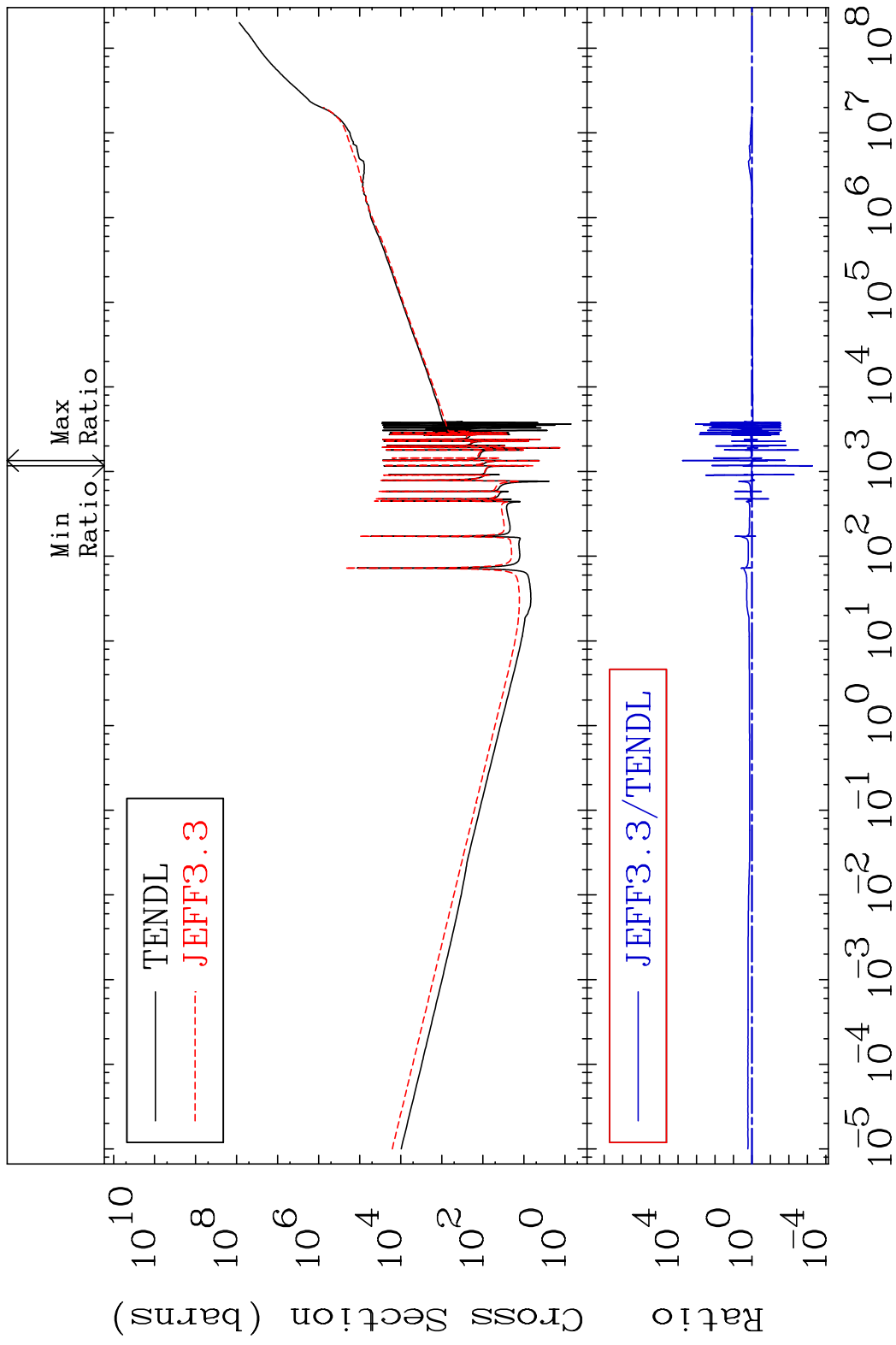


MAT 7243 Total photon (eV-barns) 72-Hf-180
 Cross Section -100.0 To 9999. %

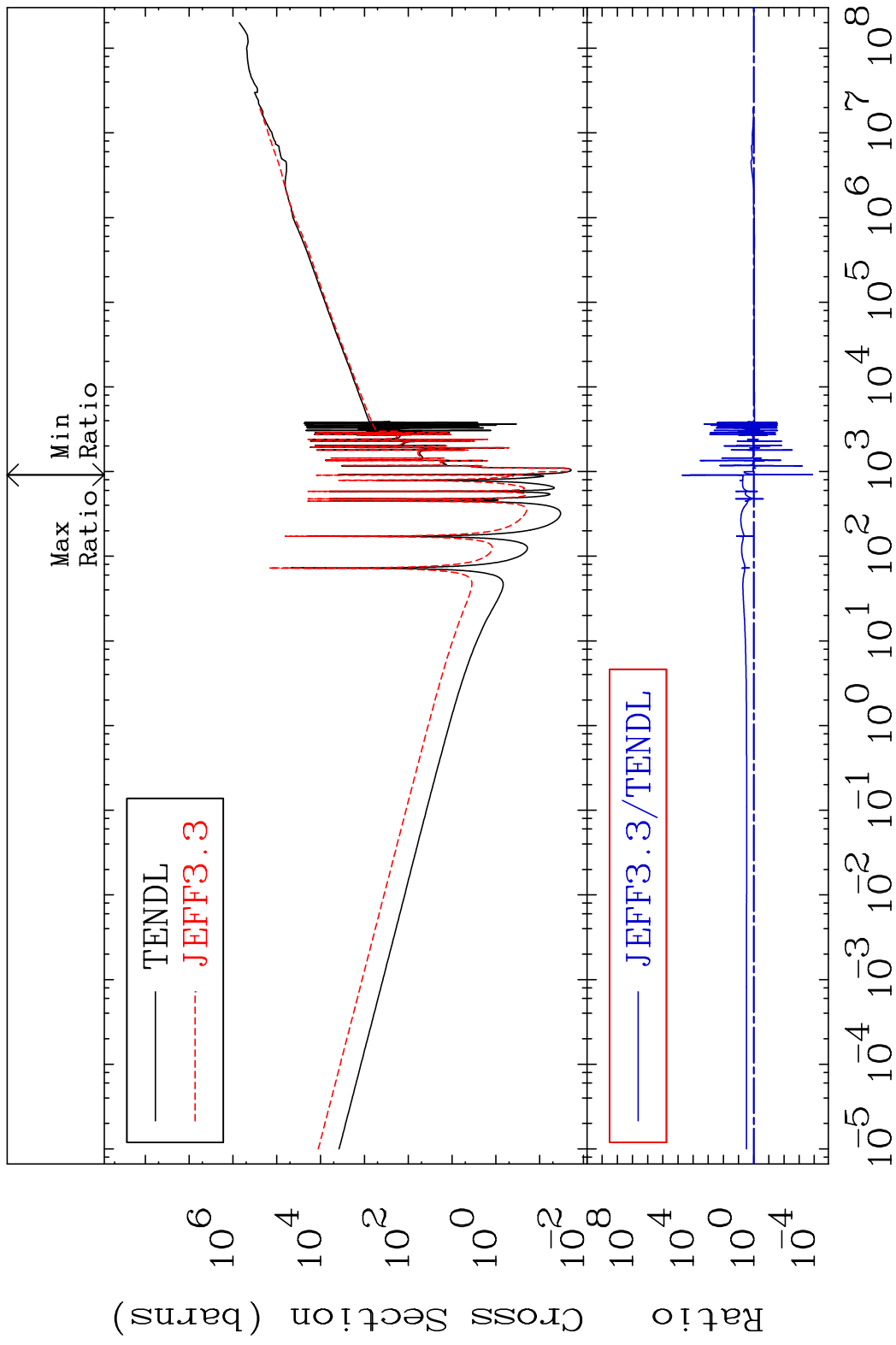


49 Incident Energy (eV) 72-Hf-180

MAT 7243 Total kinematic kerma (high limit) 72-Hf-180
Cross Section -99.95 To 9999. %



MAT 7243 Dpa total (eV-barns) 72-Hf-180
 Cross Section -99.99 To 9999. %

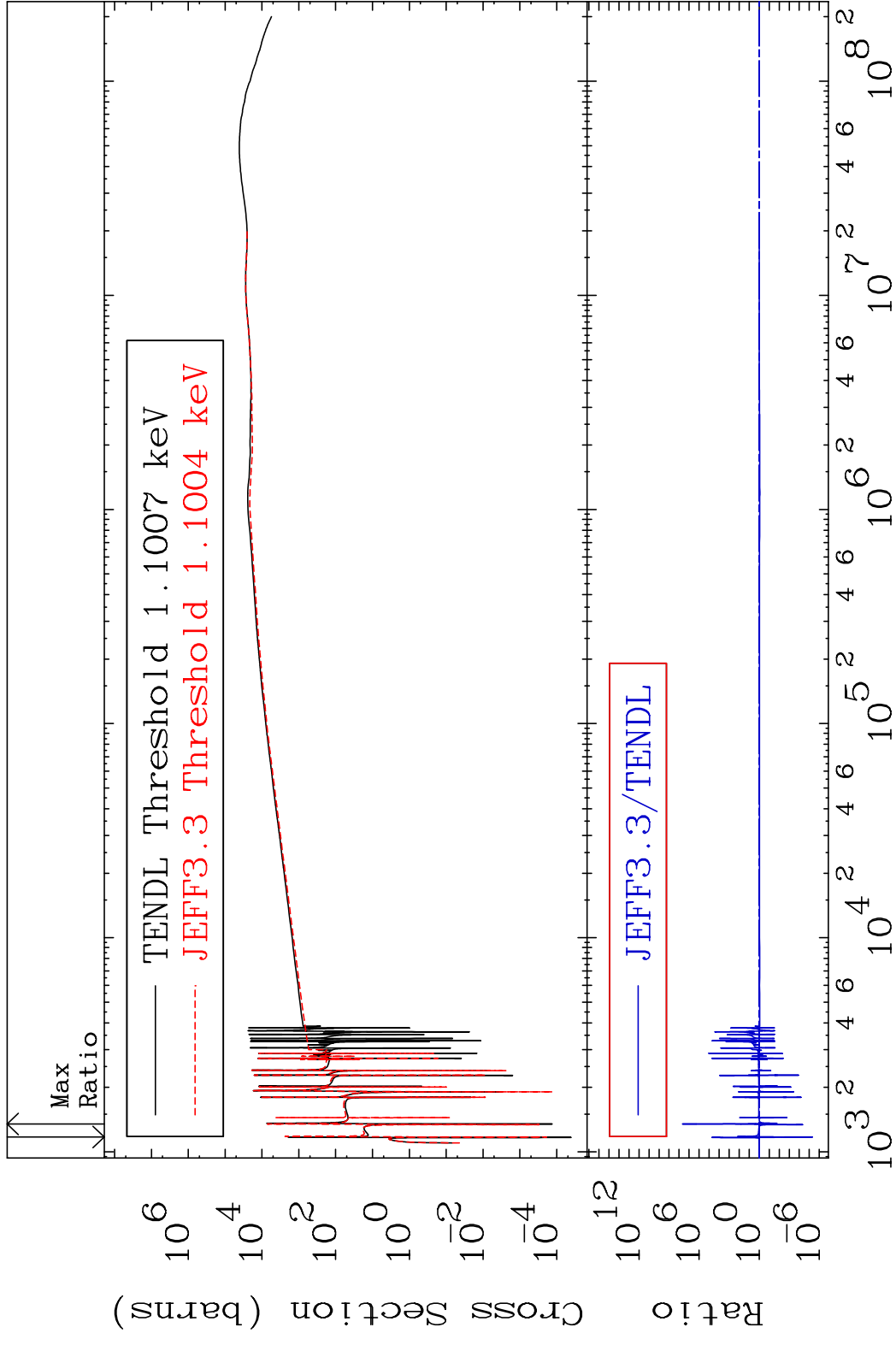


MAT 7243

Dpa elastic (mt2)

72-Hf-180

Cross Section -100.0 To 9999. %

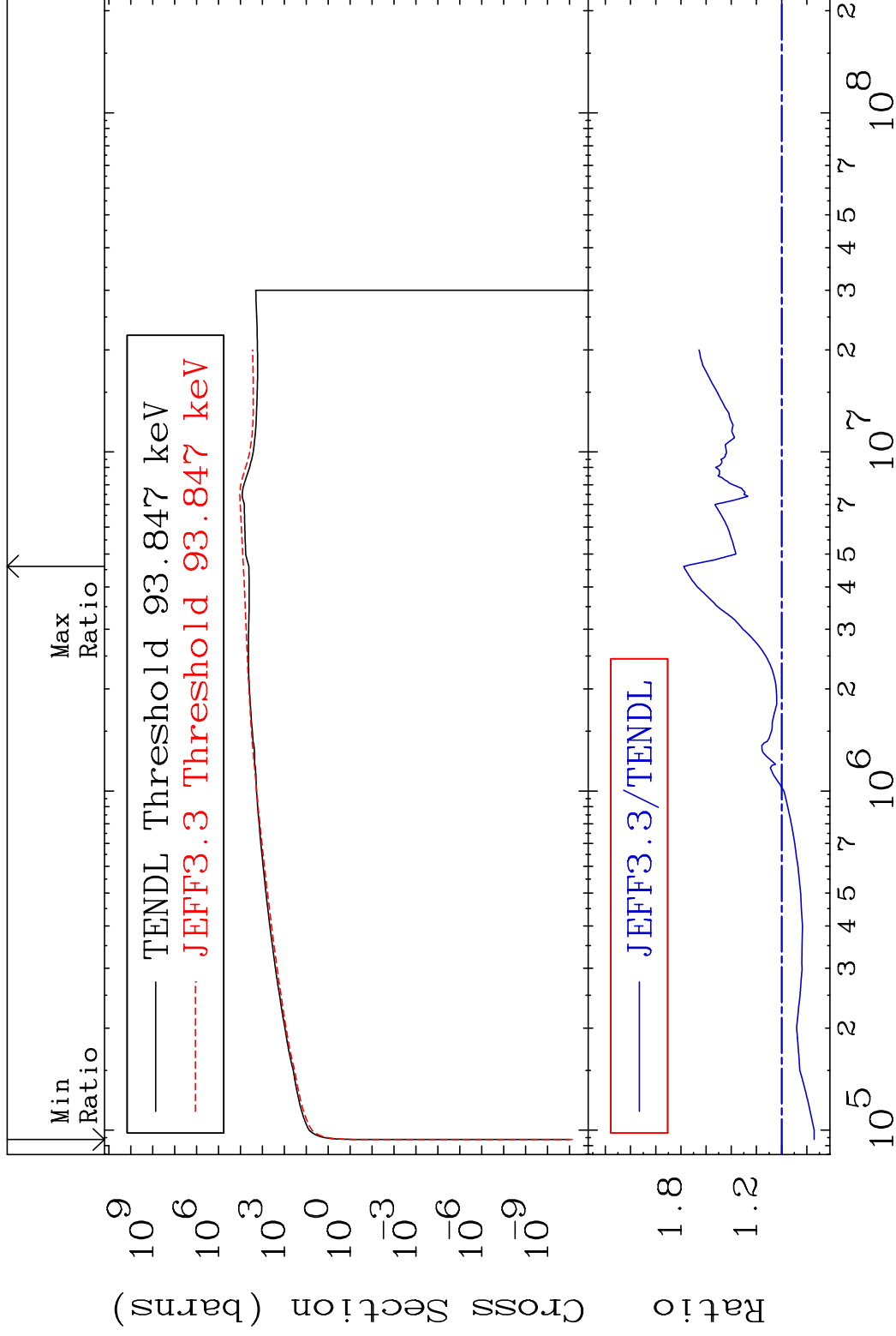


MAT 7243

Dpa inelastic (mt51-91)

72-Hf-180

Cross Section -25.79 To 77.82 %

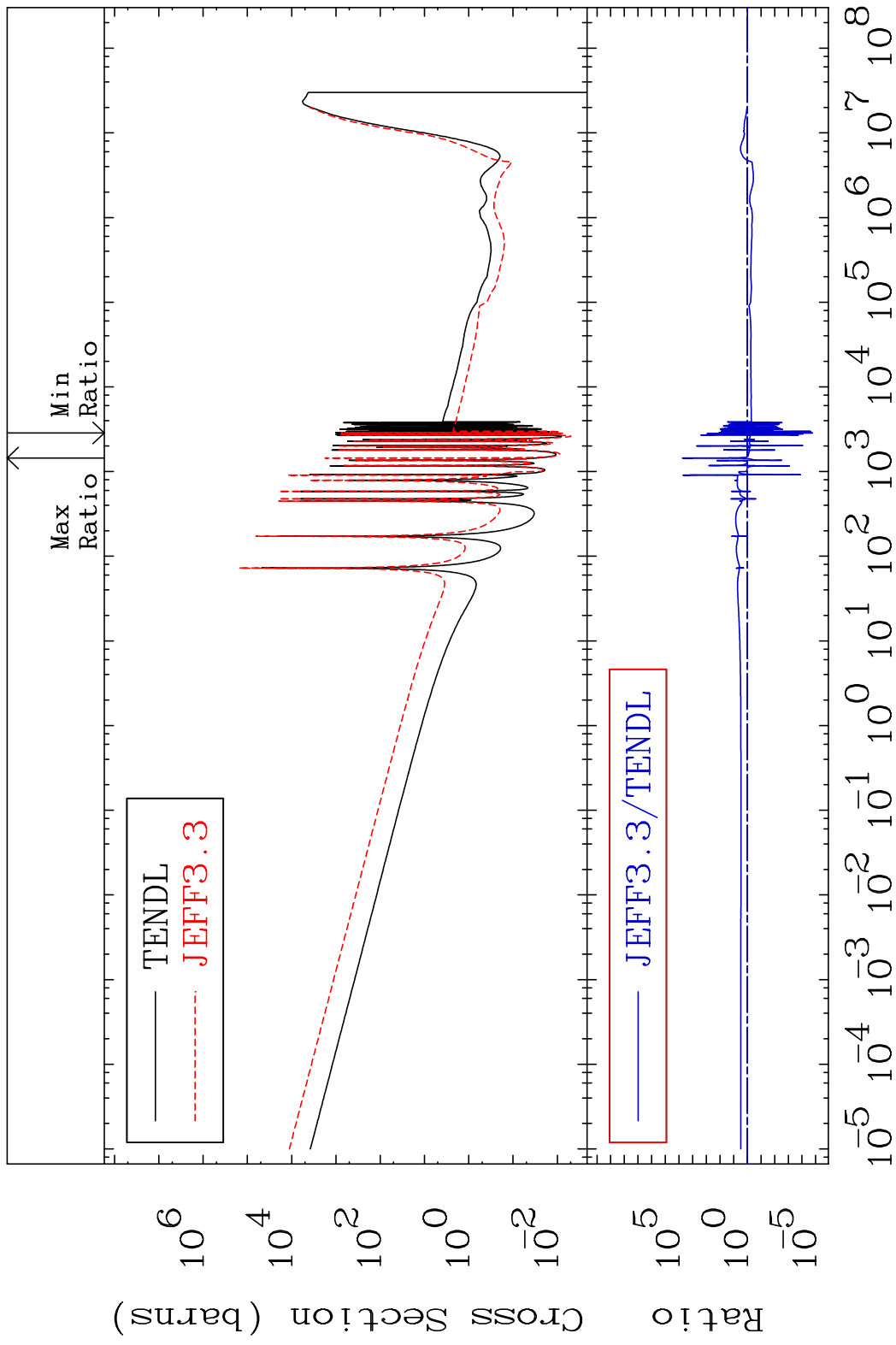


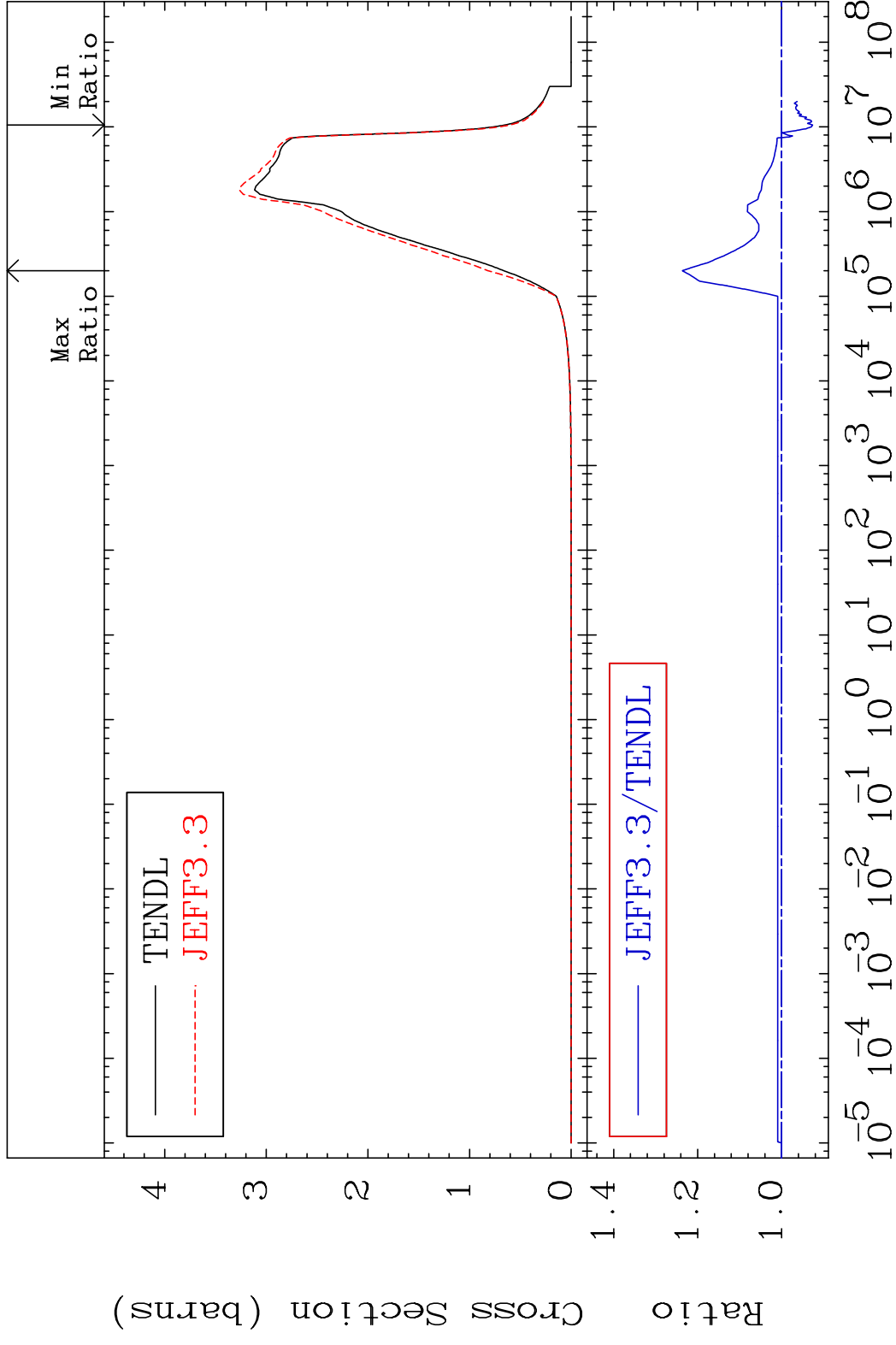
53

Incident Energy (eV)

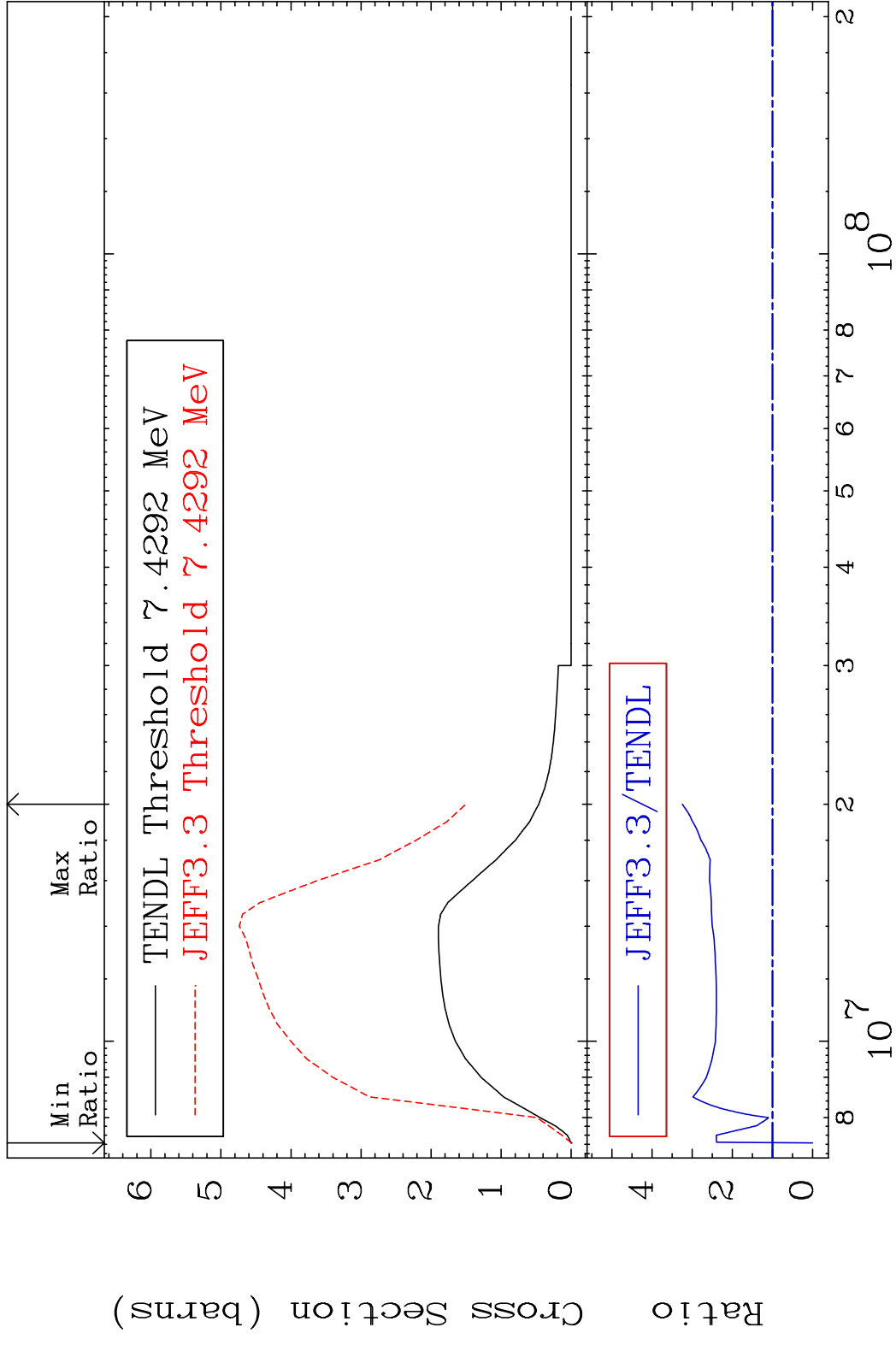
72-Hf-180

MAT 7243 Dpa disappearance (mt102 -120) 72-Hf-180
 Cross Section -100.0 To 9999. %

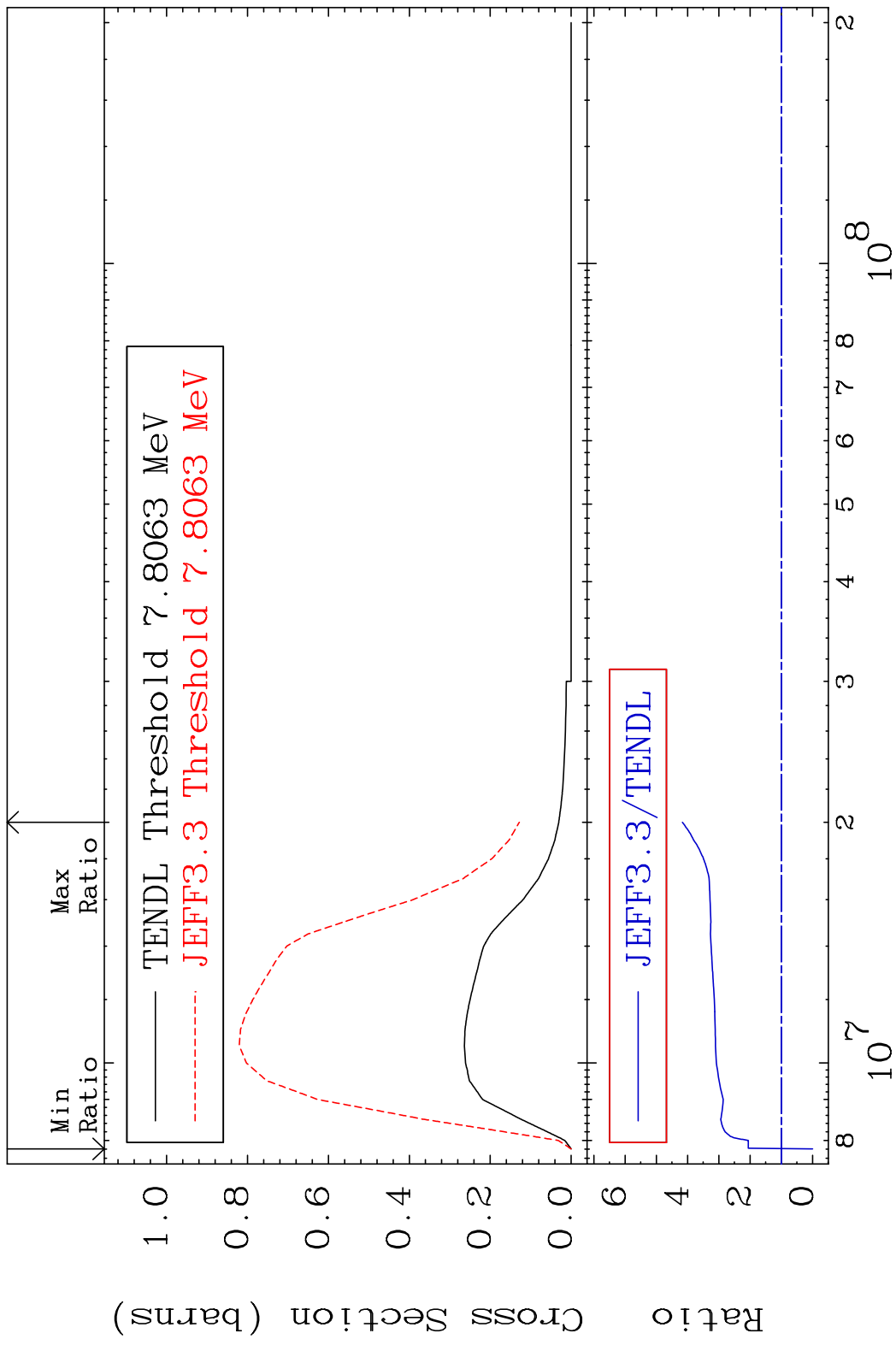




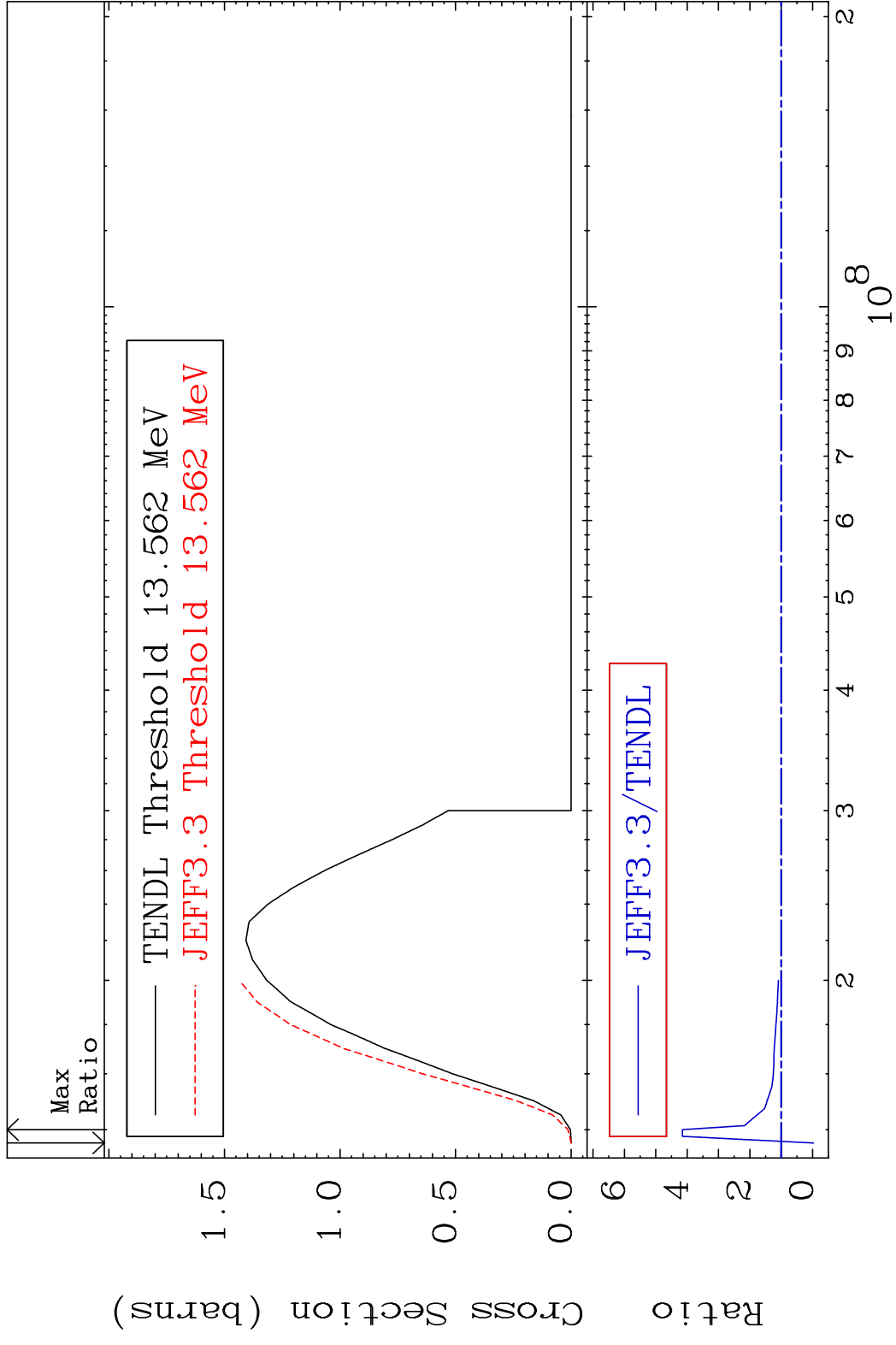
MAT 7243 (n,2n):72-Hf-179g 72-Hf-180
 Radionuclide Production Cross Section 180.01 dth 224.4 %



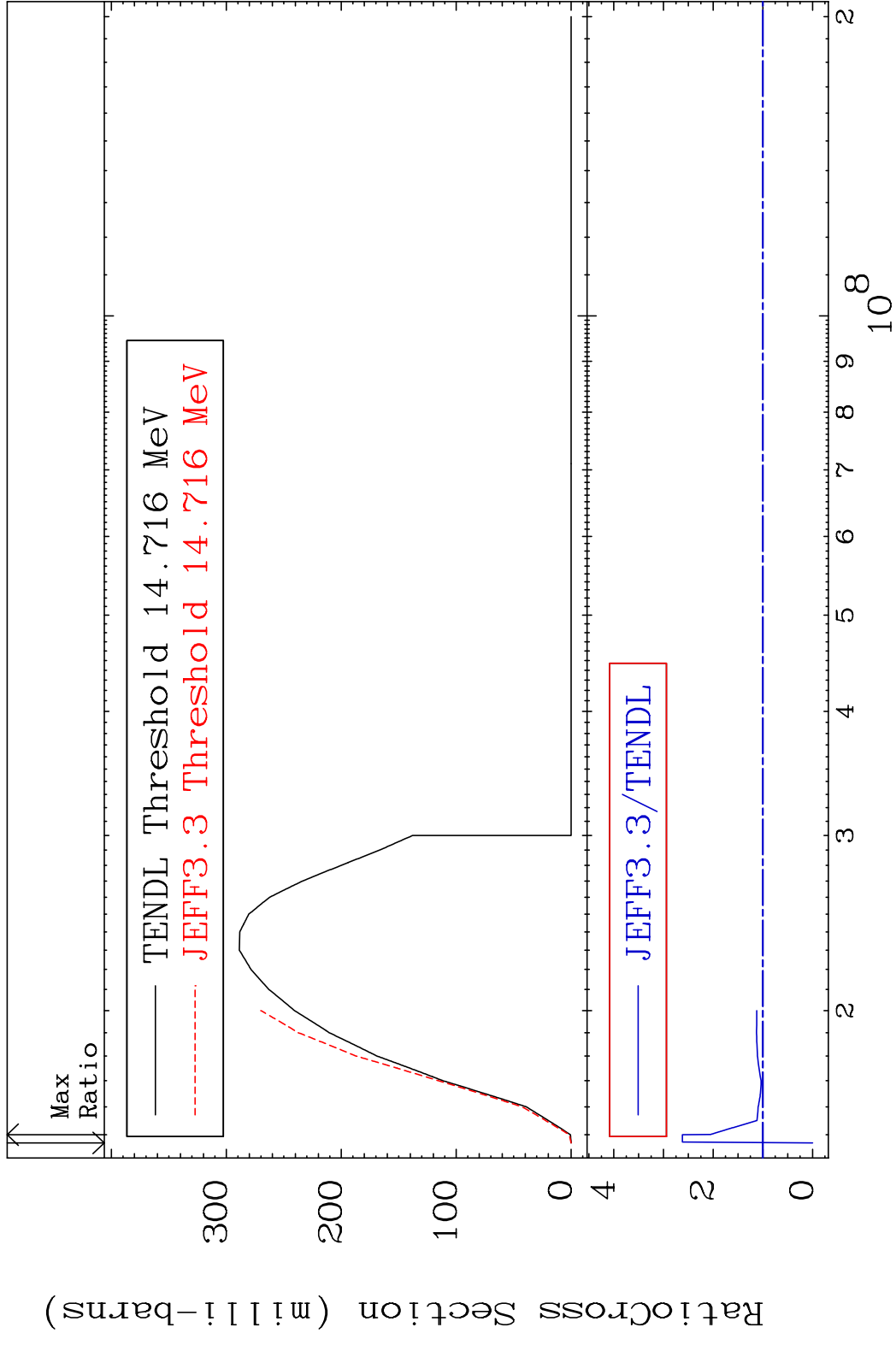
MAT 7243 (n,2n):72-Hf-179m5 72-Hf-180
 Radionuclide Production Cross Section 316.8 %

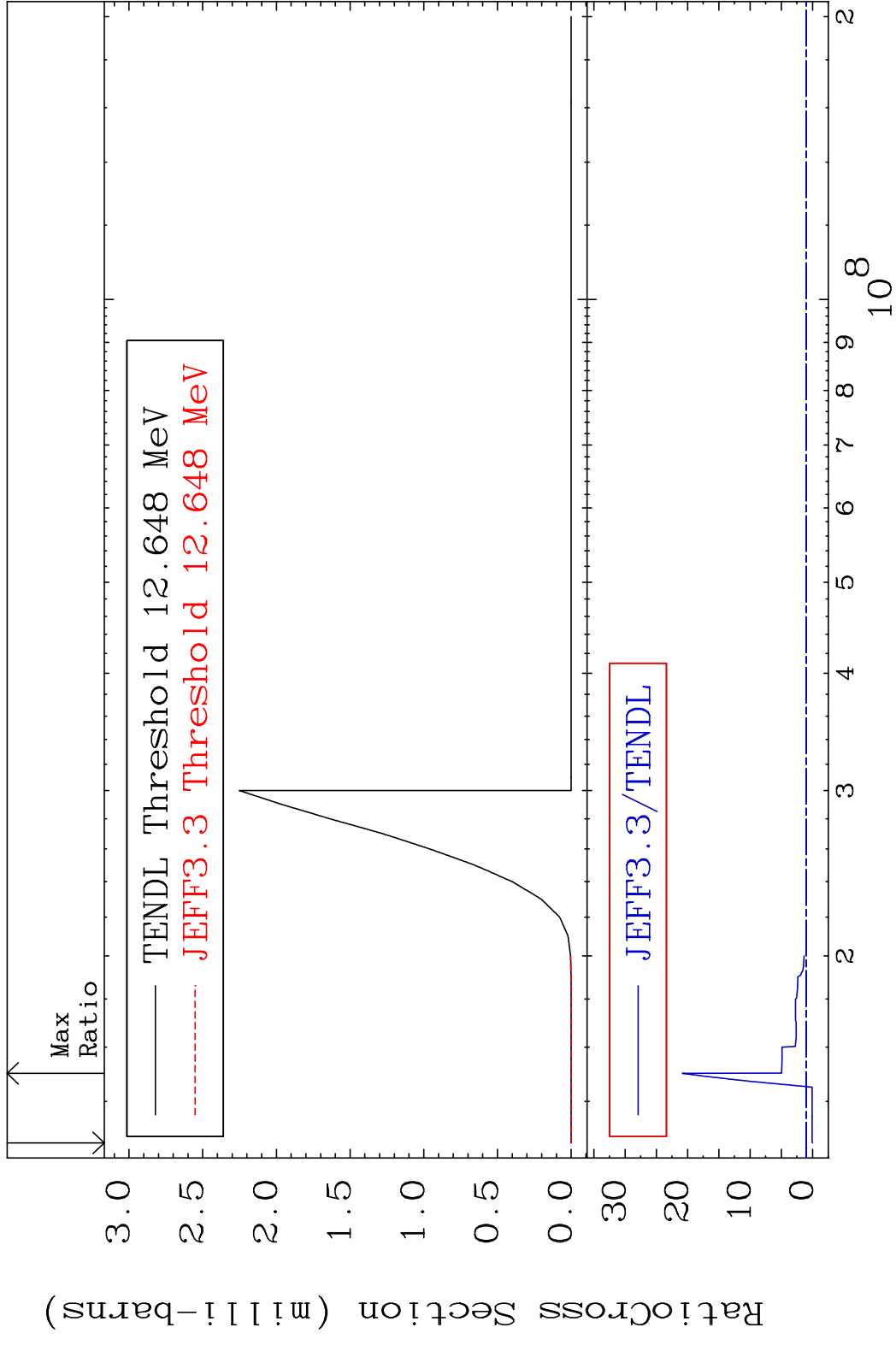


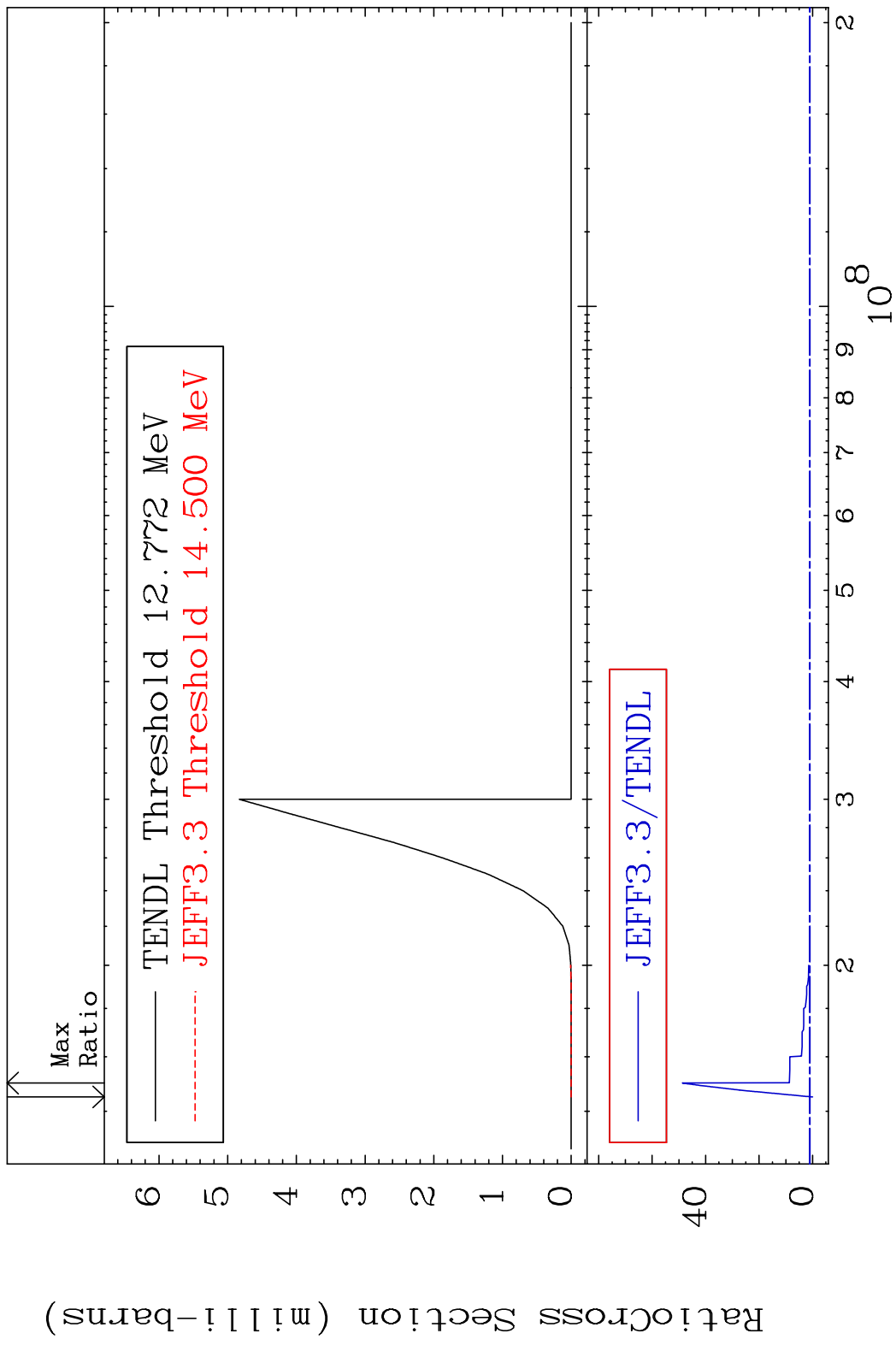
MAT 7243 (n,3n):72-Hf-178g 72-Hf-180
 Radionuclide Production Cross Section 180.01 dno 315.3 %



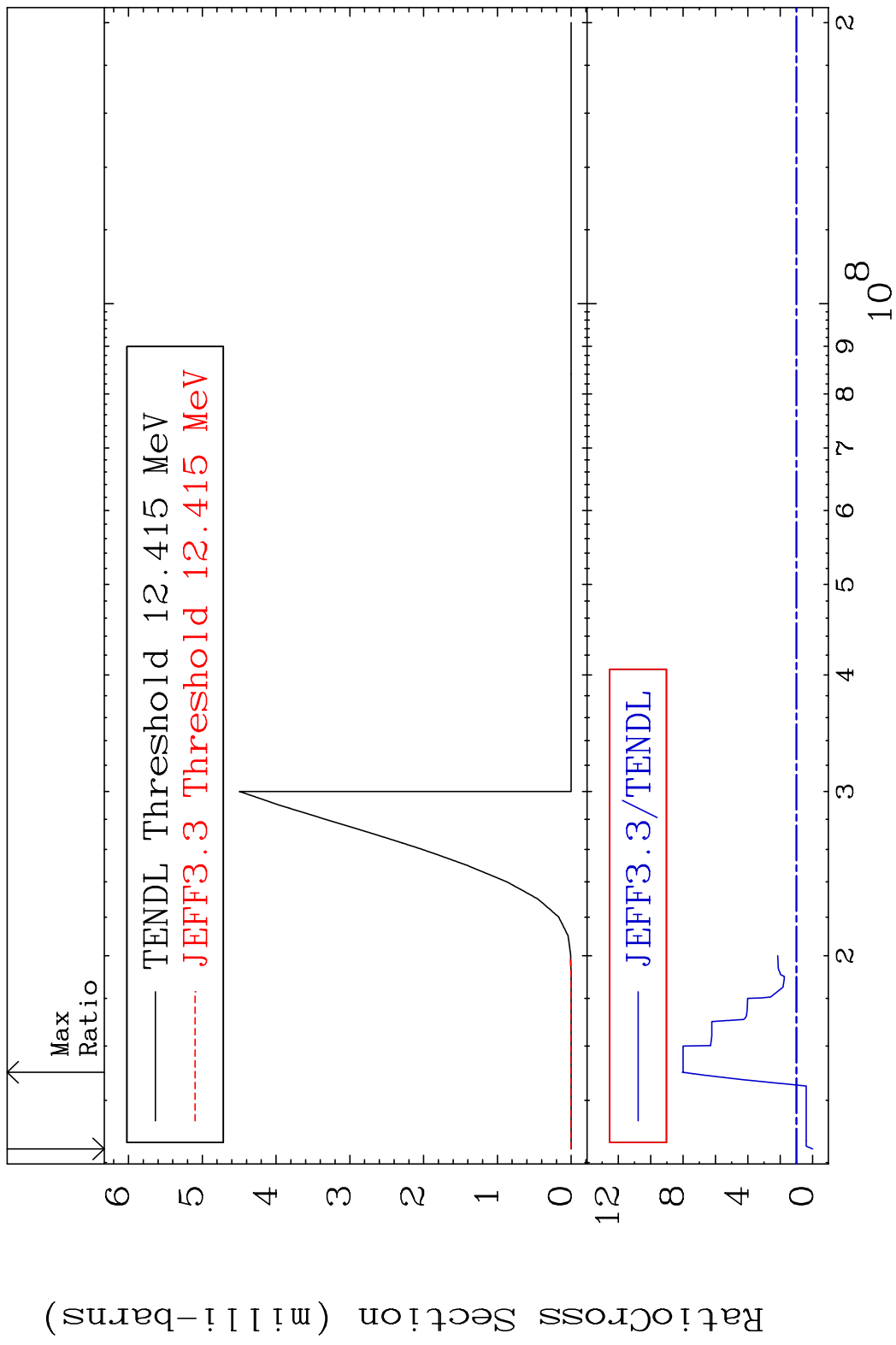
MAT 7243 (n, 3n): 72-Hf-178m5 72-Hf-180
 Radionuclide Production Cross Section 180.0 dth 162.0 %

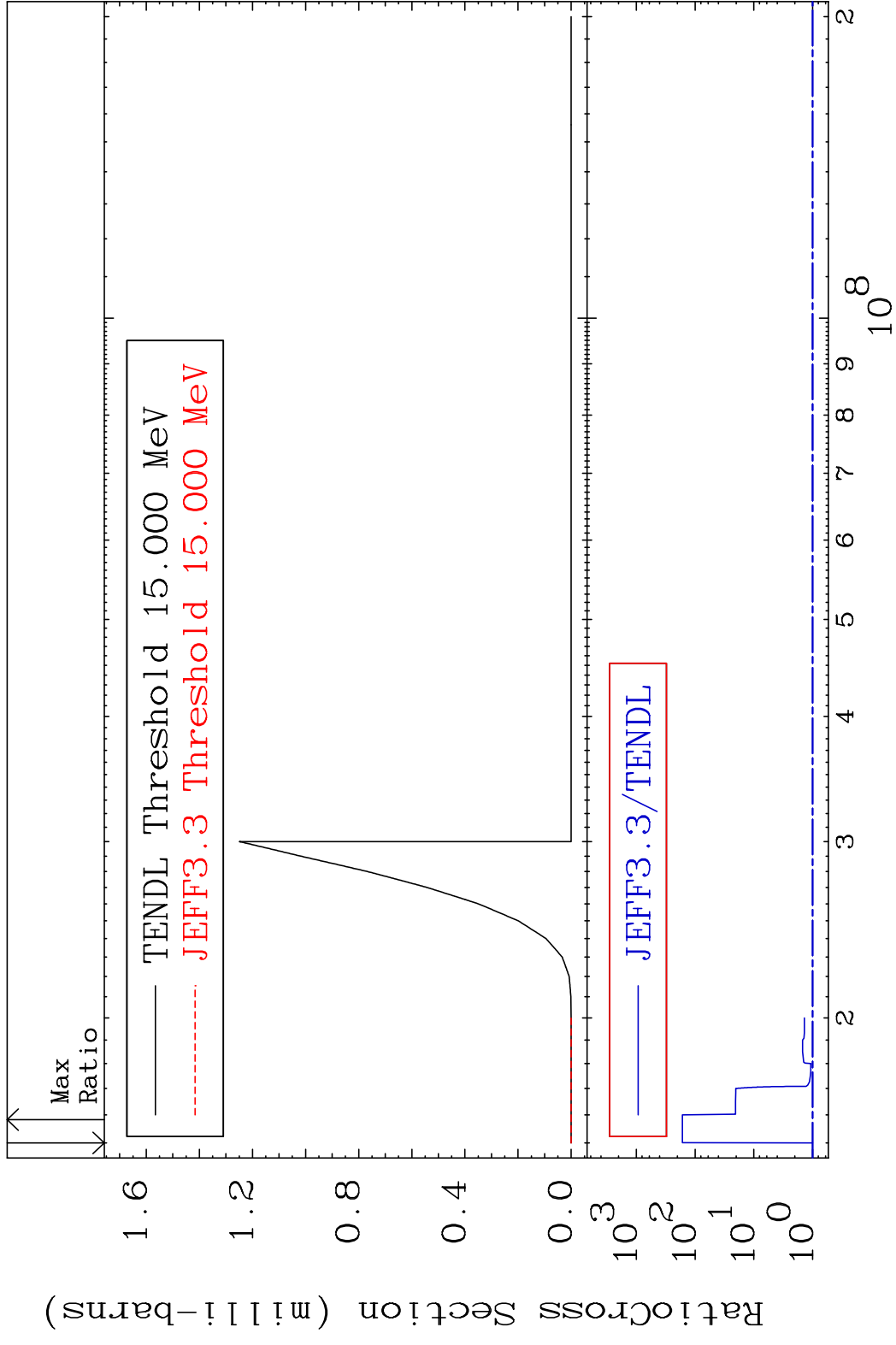


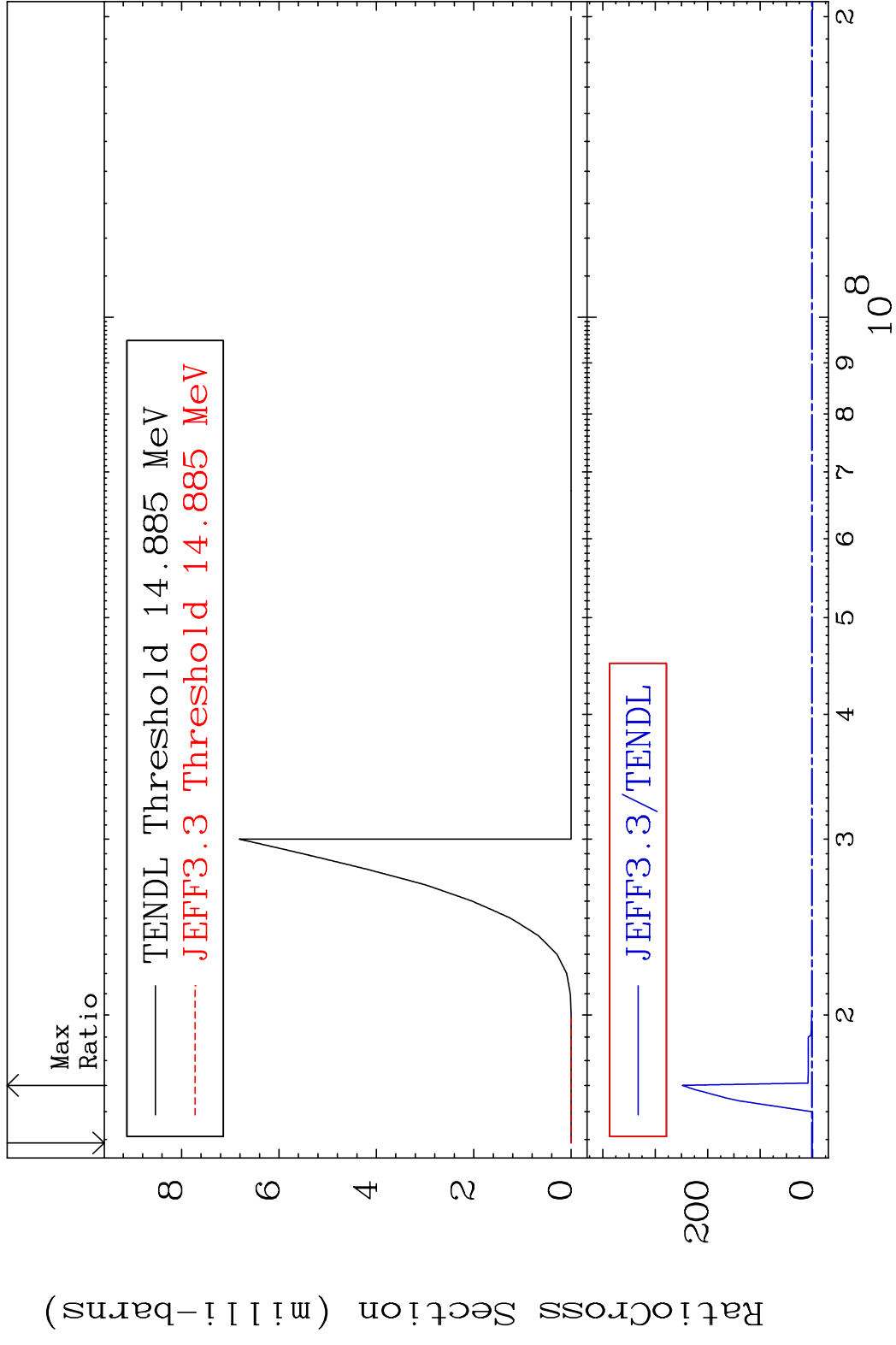


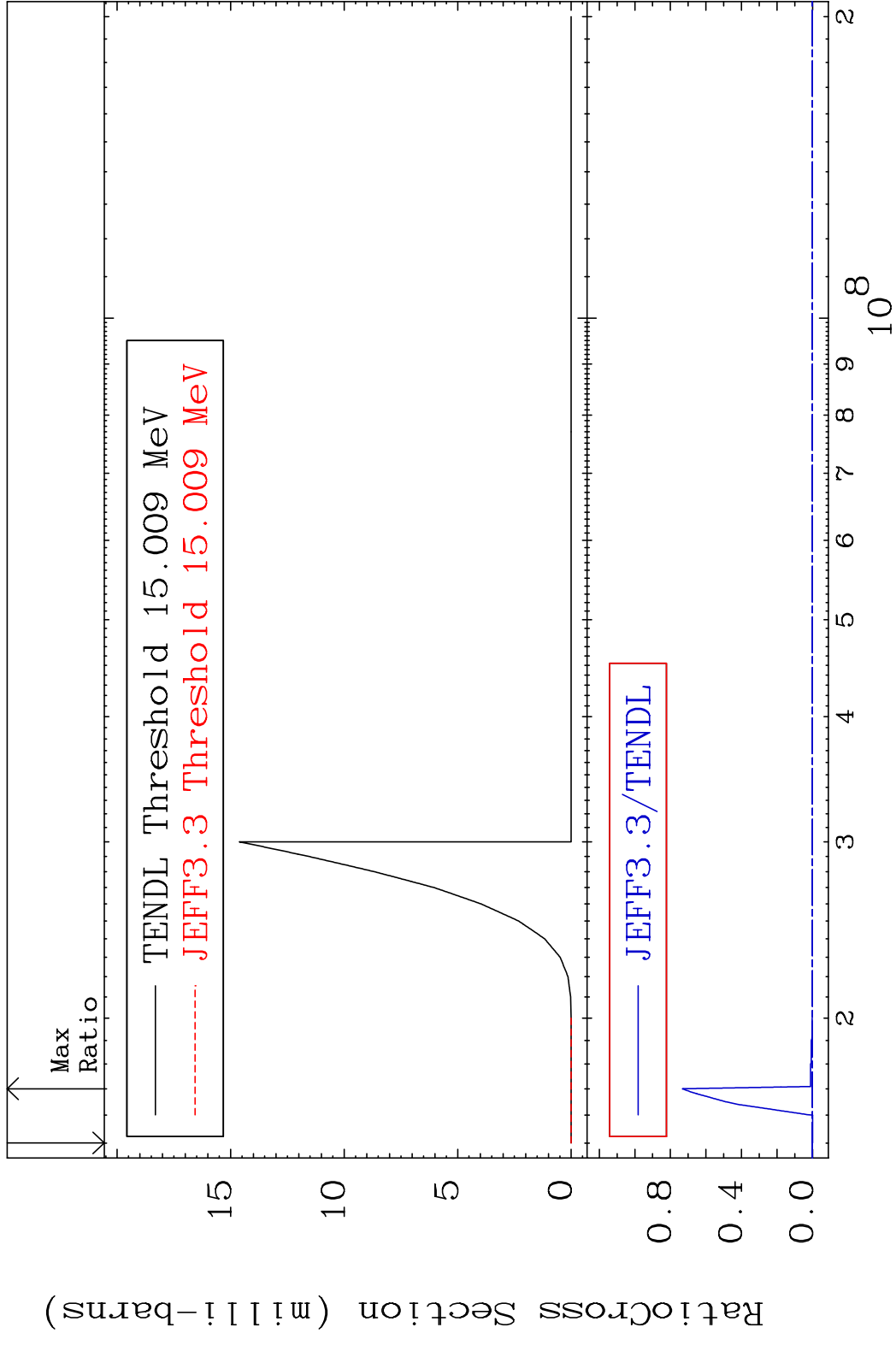


MAT 7243 (n, n') t:71-Lu-177g 72-Hf-180
 Radionuclide Production Cross Section 180.01 dth 704.1 %

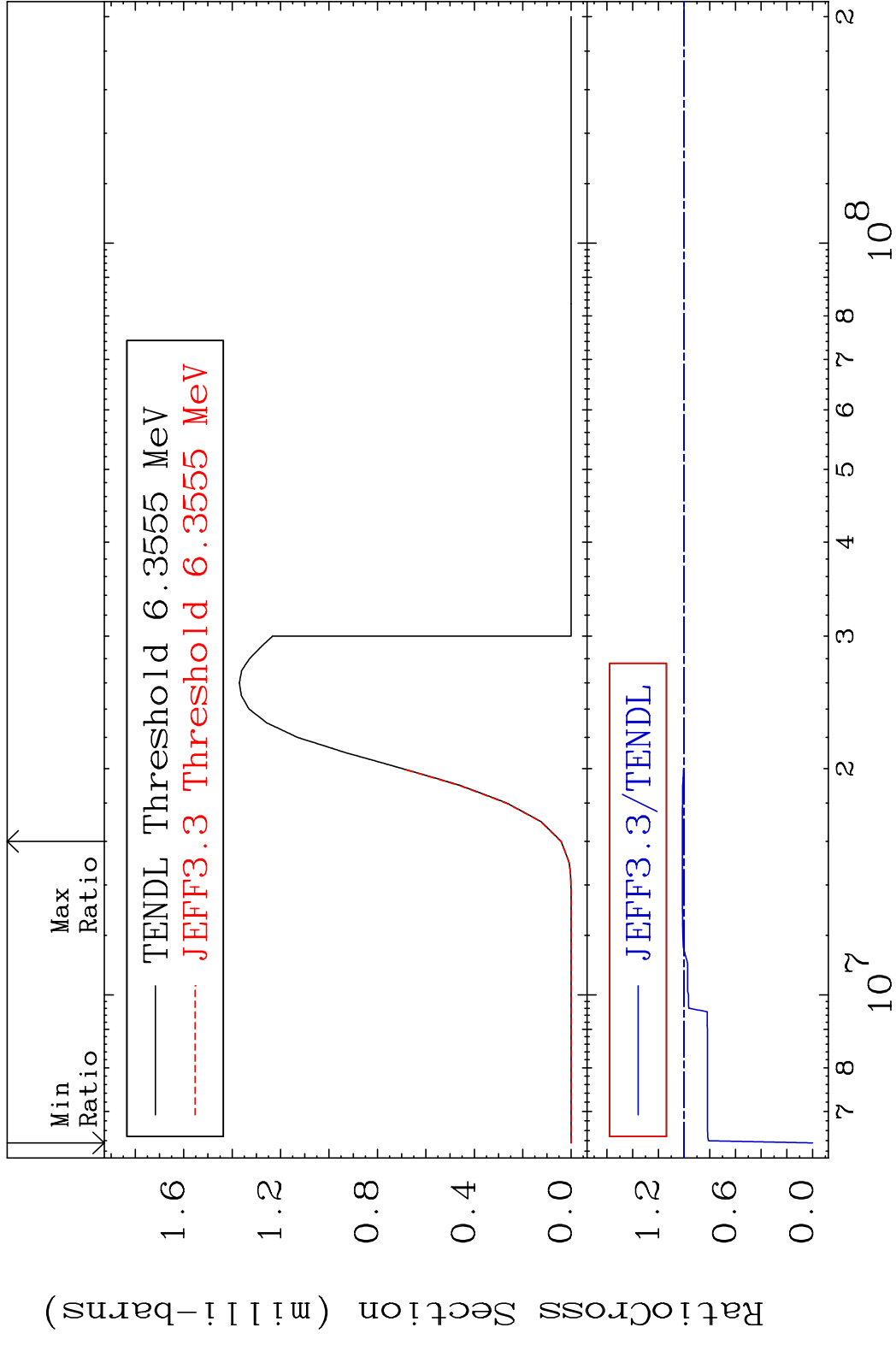








MAT 7243 (n, t): 71-Lu-178g 72-Hf-180
 Radionuclide Production Cross Section Ratio 1.346 %



MAT 7243 (n, t):71-Lu-178m3 72-Hf-180
 Radionuclide Production Cross Section Ratio -1.270%

