

Program Complot
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

U.S.A.

Tele: 925-443-1911

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

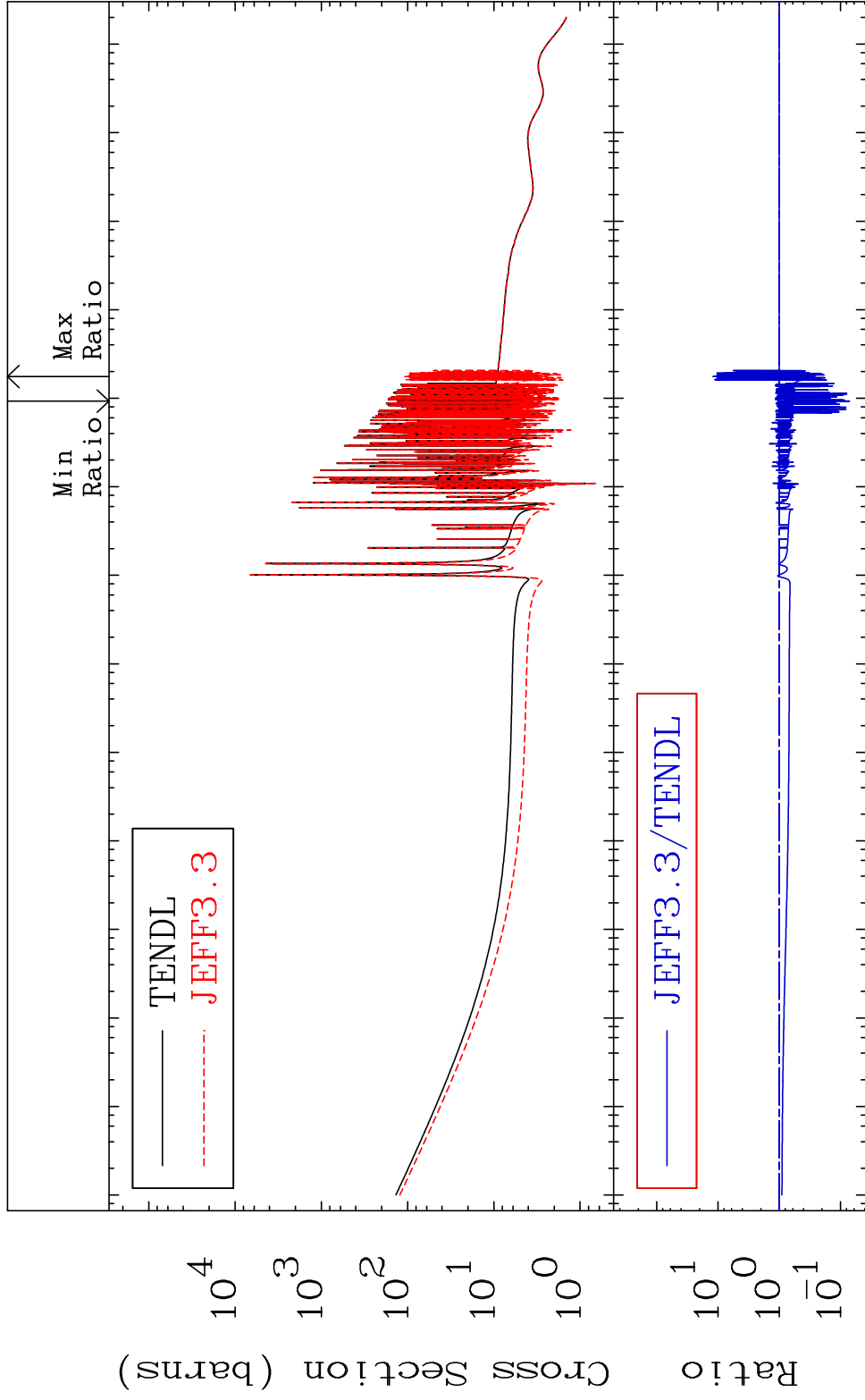
Press Mouse Button to Start

MAT 3531

Total

35-Br-81

Cross Section -92.83 To 1098. %



1

Incident Energy (eV)

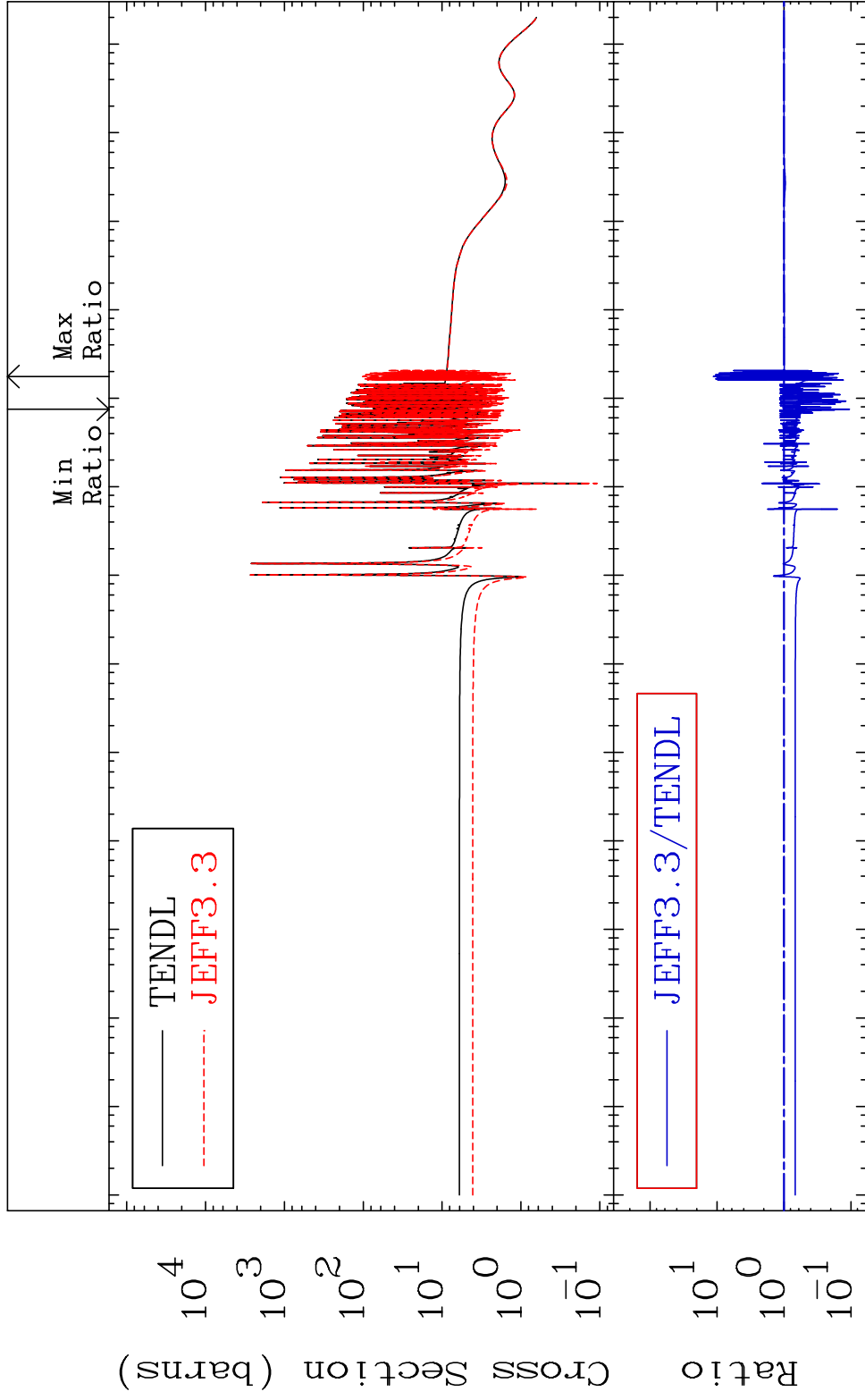
35-Br-81

MAT 3531

Elastic

35-Br-81

Cross Section -89.39 To 1042. %

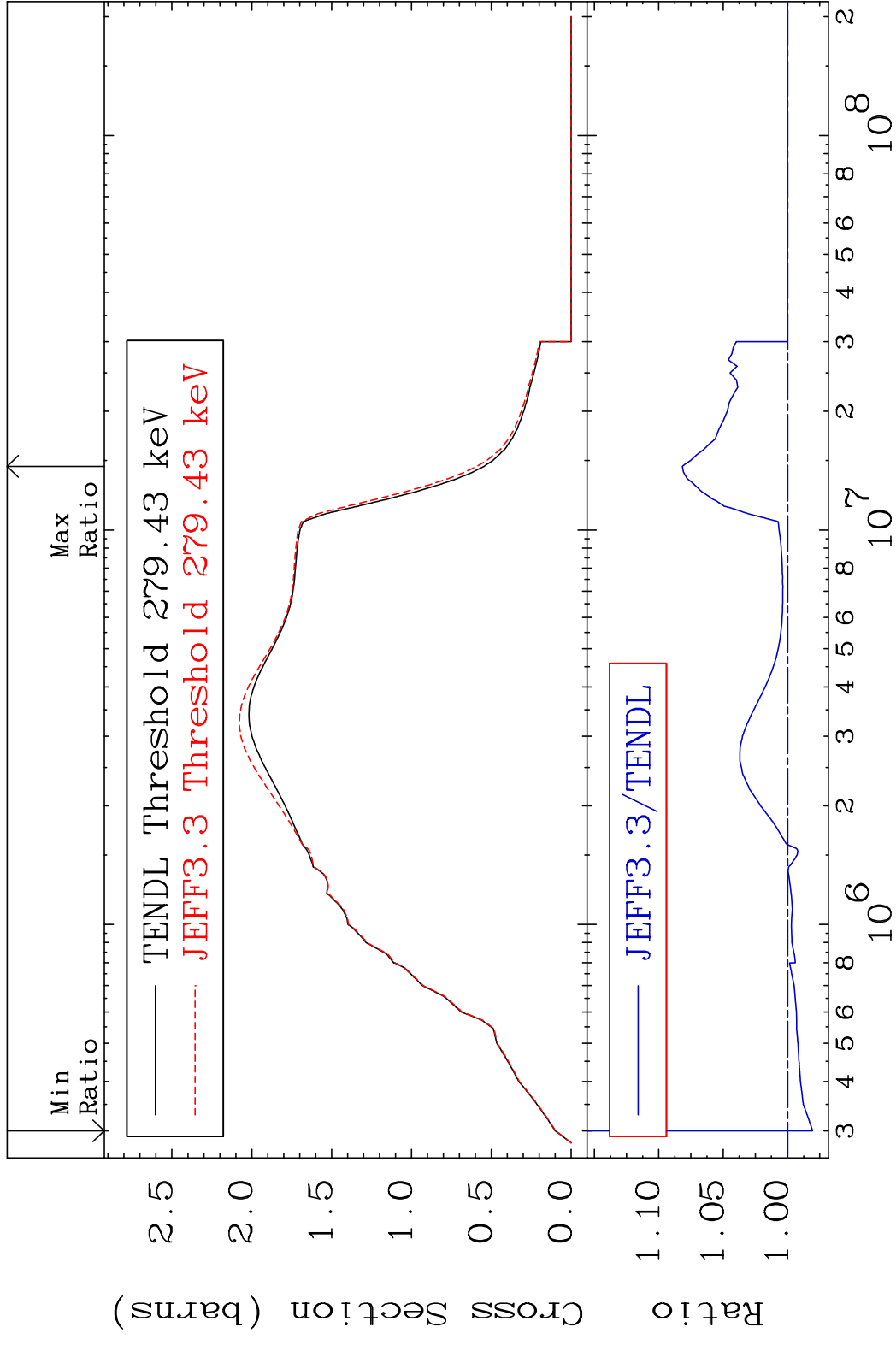


2

Incident Energy (eV)

35-Br-81

MAT 3531 Inelastic 35-Br-81
 Cross Section -1.945 To 8.166 %

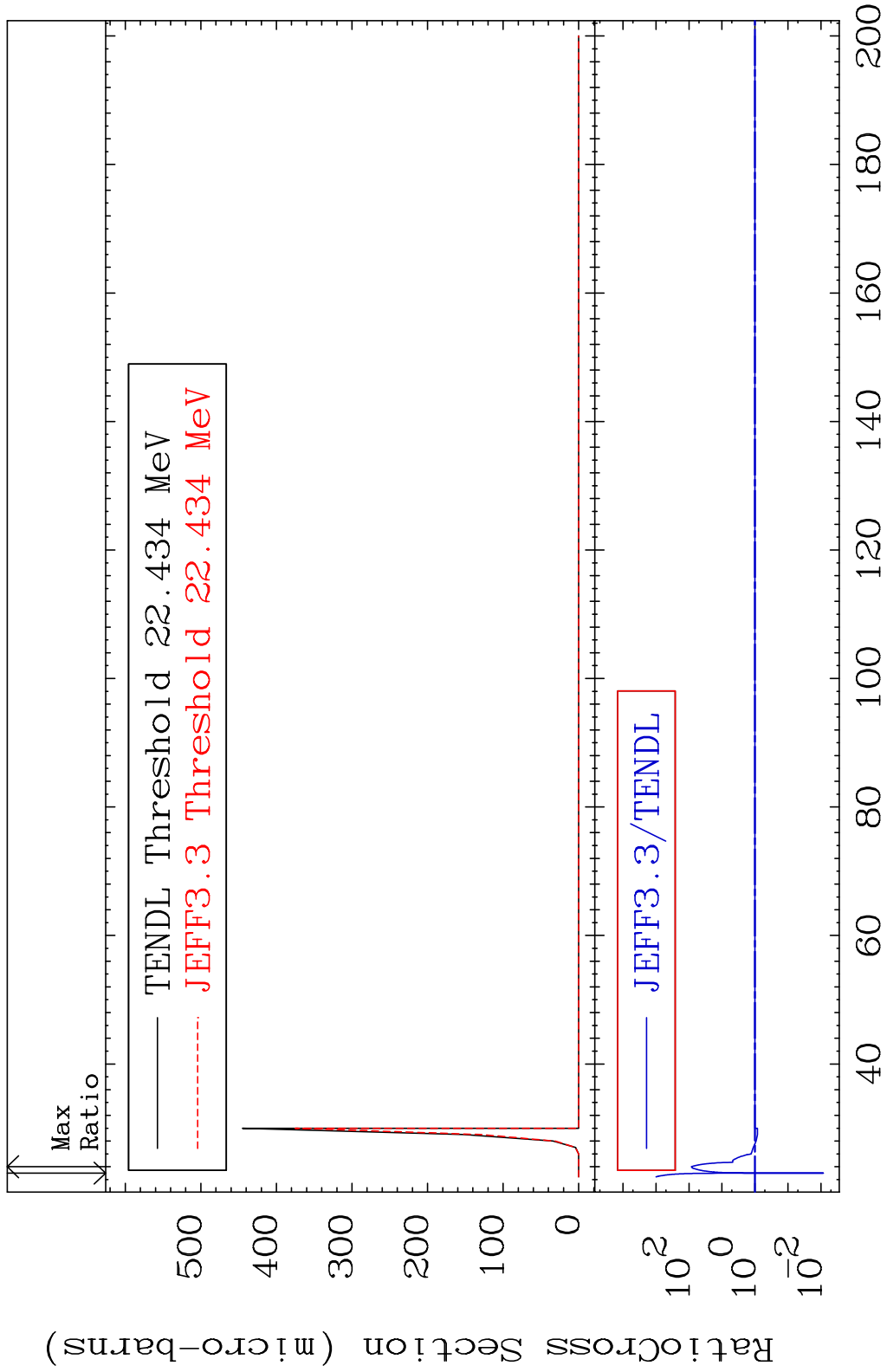


MAT 3531

(n,2n) d

35-Br-81

Cross Section -99.15 To 8390. %

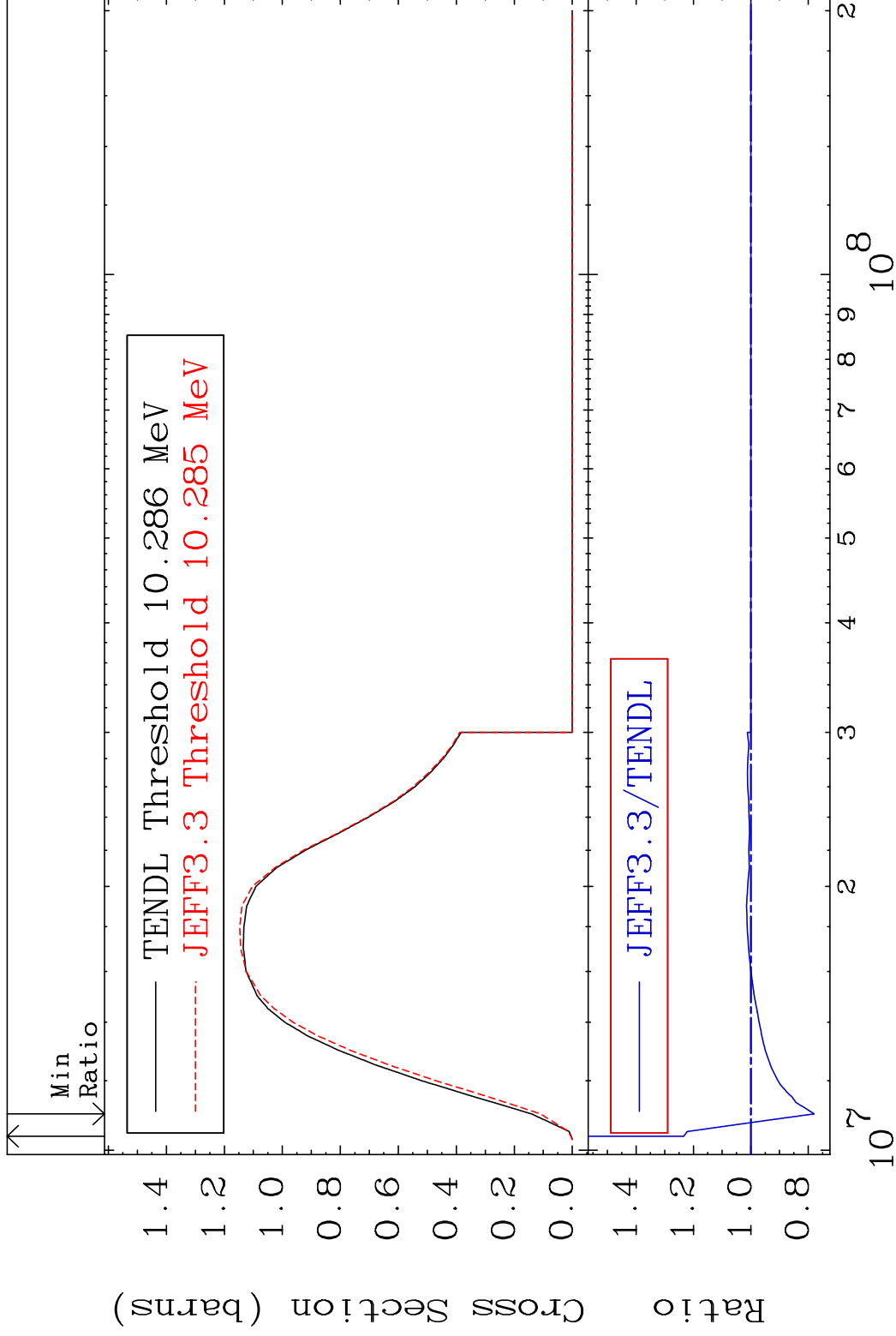


MAT 3531

(n,2n)

35-Br-81

Cross Section -22.06 To 23.41 %



5

Incident Energy (eV)

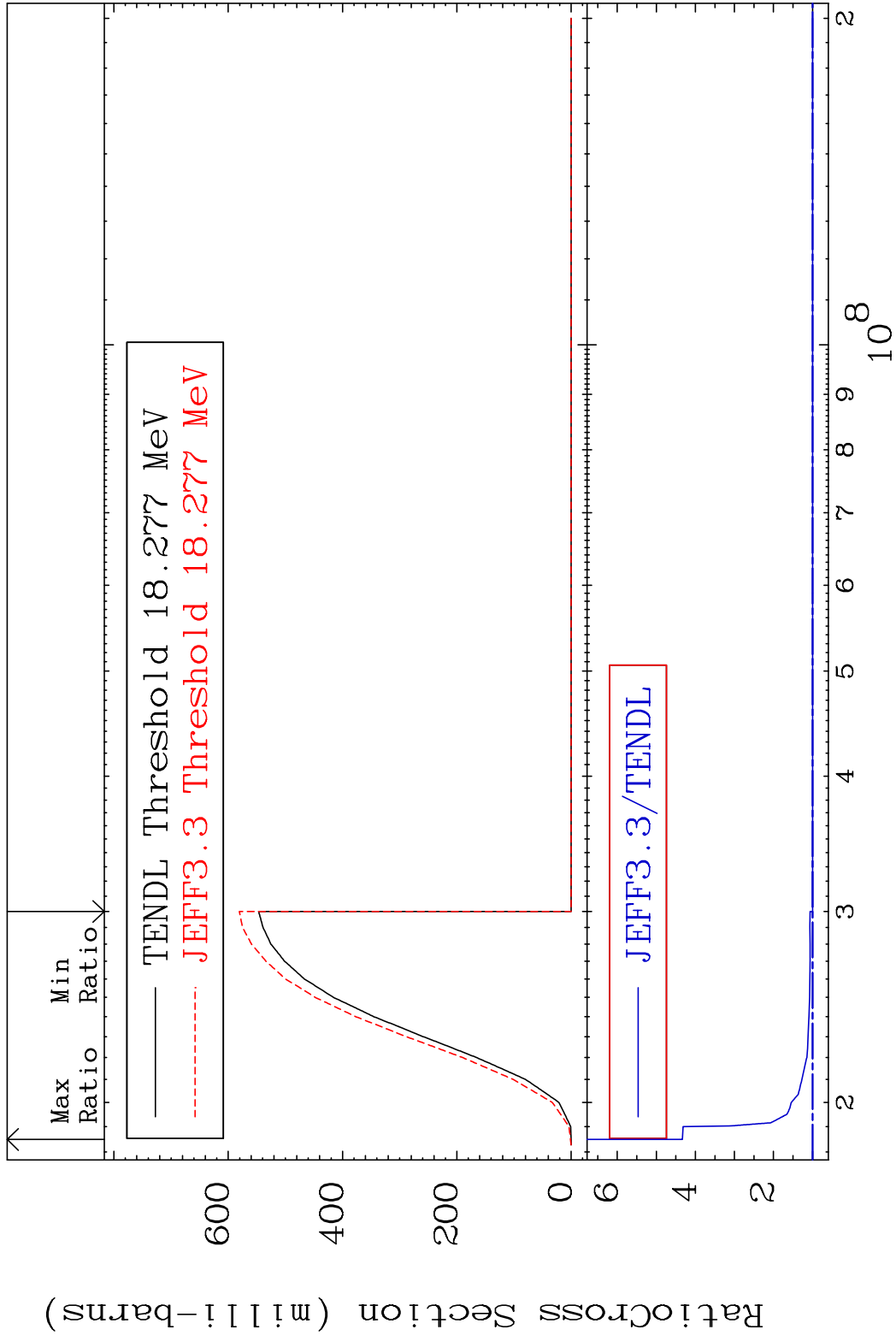
35-Br-81

MAT 3531

(n,3n)

35-Br-81

Cross Section 0.000 To 333.3 %



6

Incident Energy (eV)

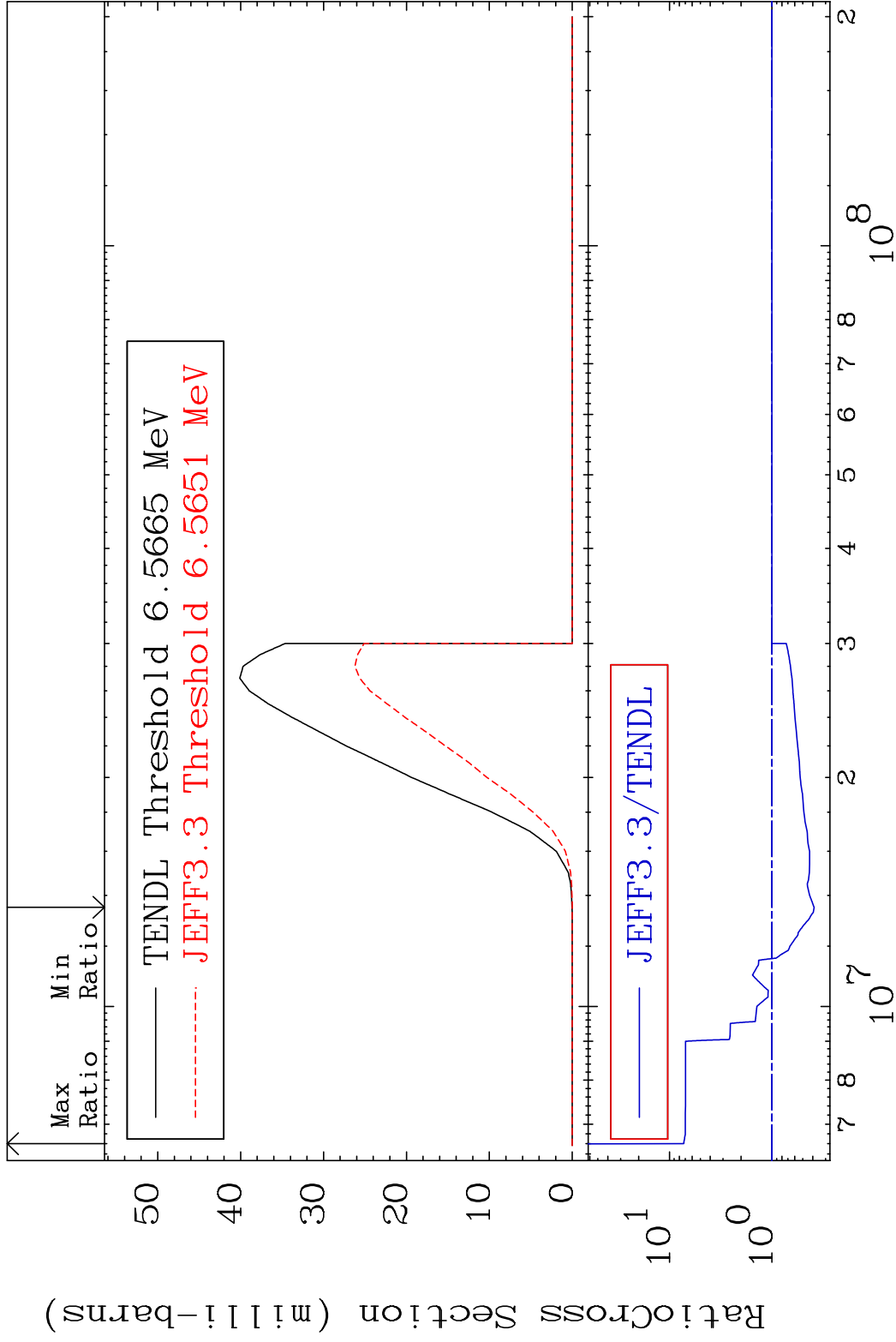
35-Br-81

MAT 3531

(n, n') α

35-Br-81

Cross Section -61.18 To 627.5 %



7

Incident Energy (eV)

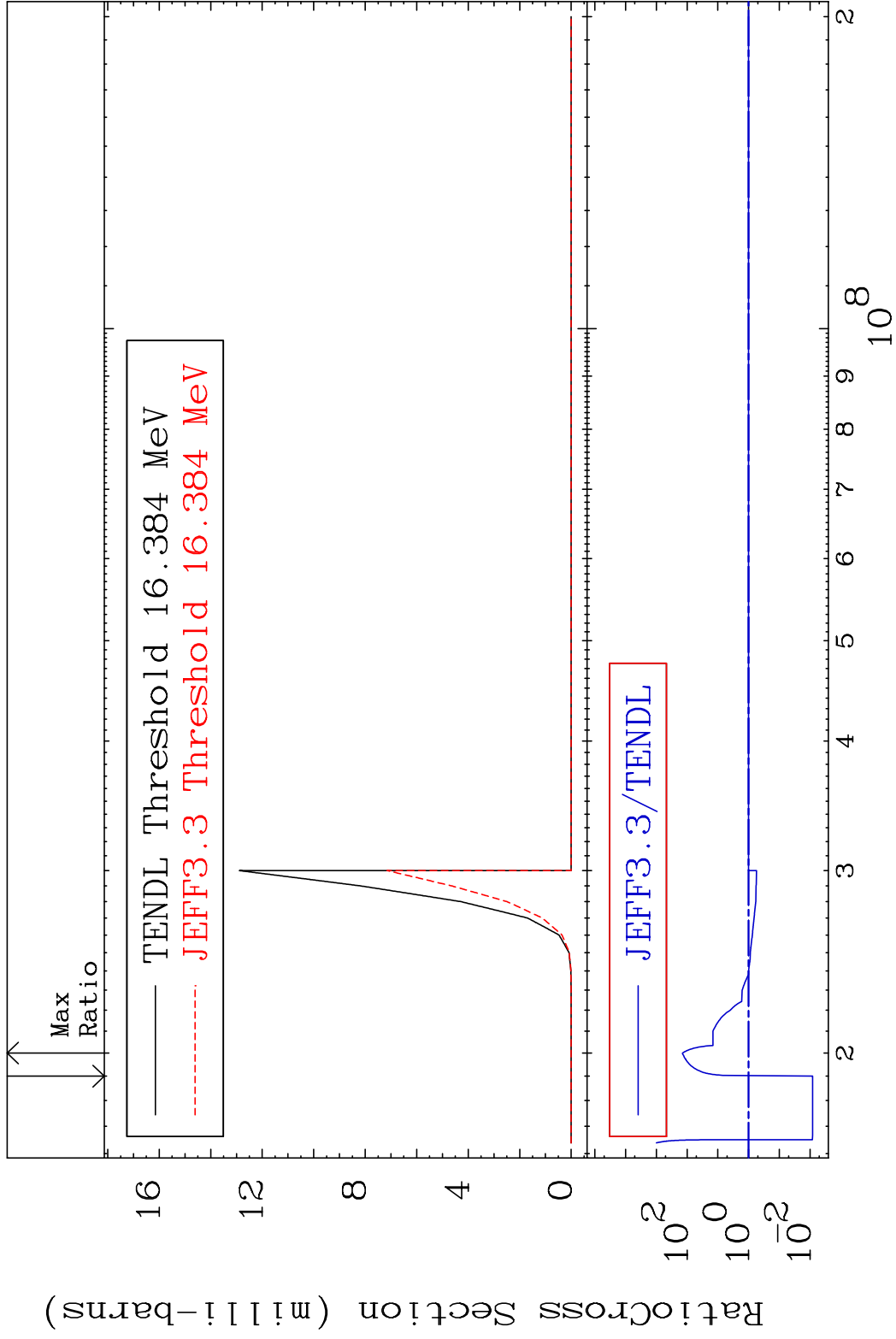
35-Br-81

MAT 3531

(n,2n) α

35-Br-81

Cross Section -99.17 To 9999. %



8

Incident Energy (eV)

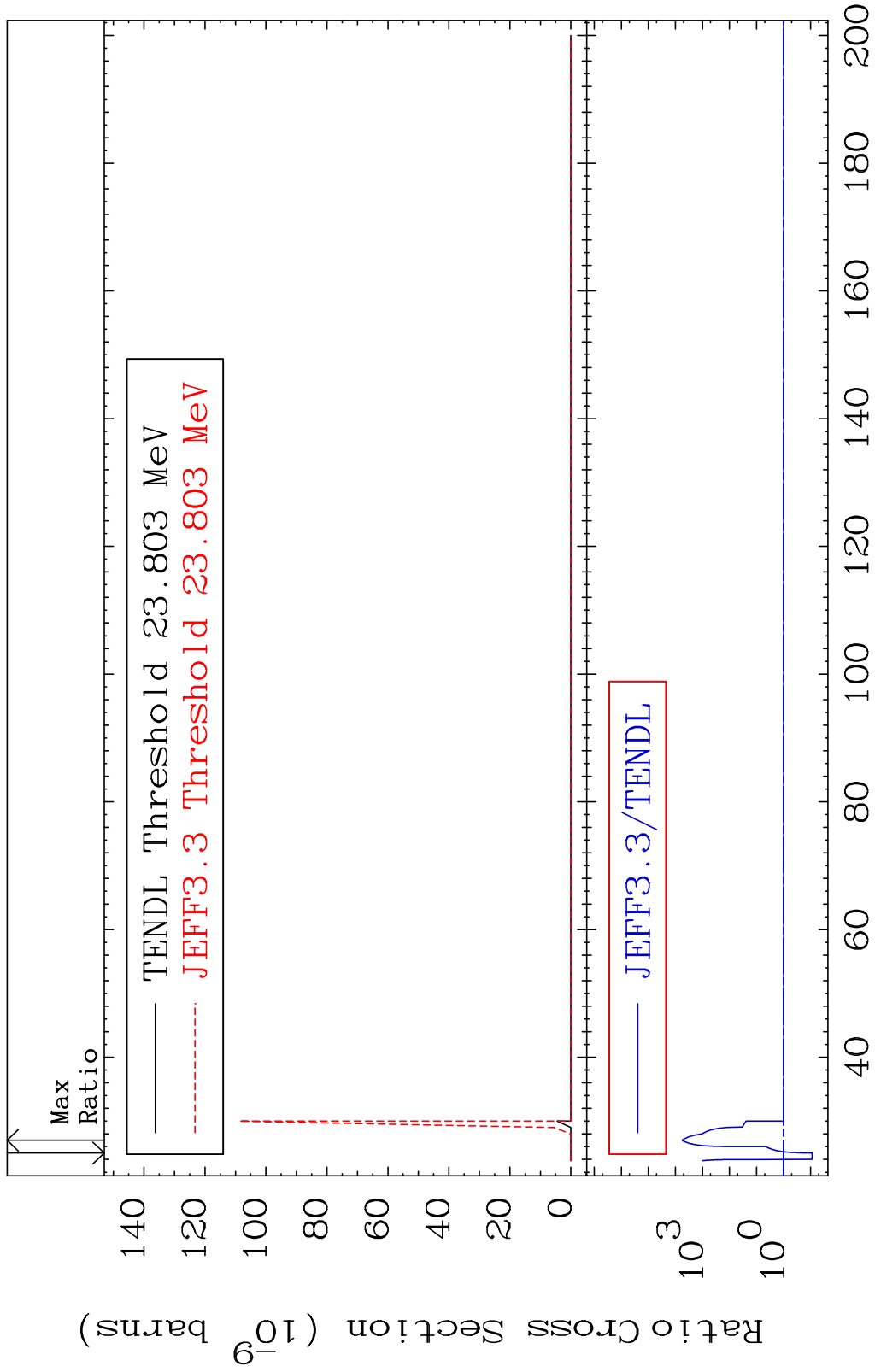
35-Br-81

MAT 3531

(n,3n) α

35-Br-81

Cross Section -91.17 To 9999. %

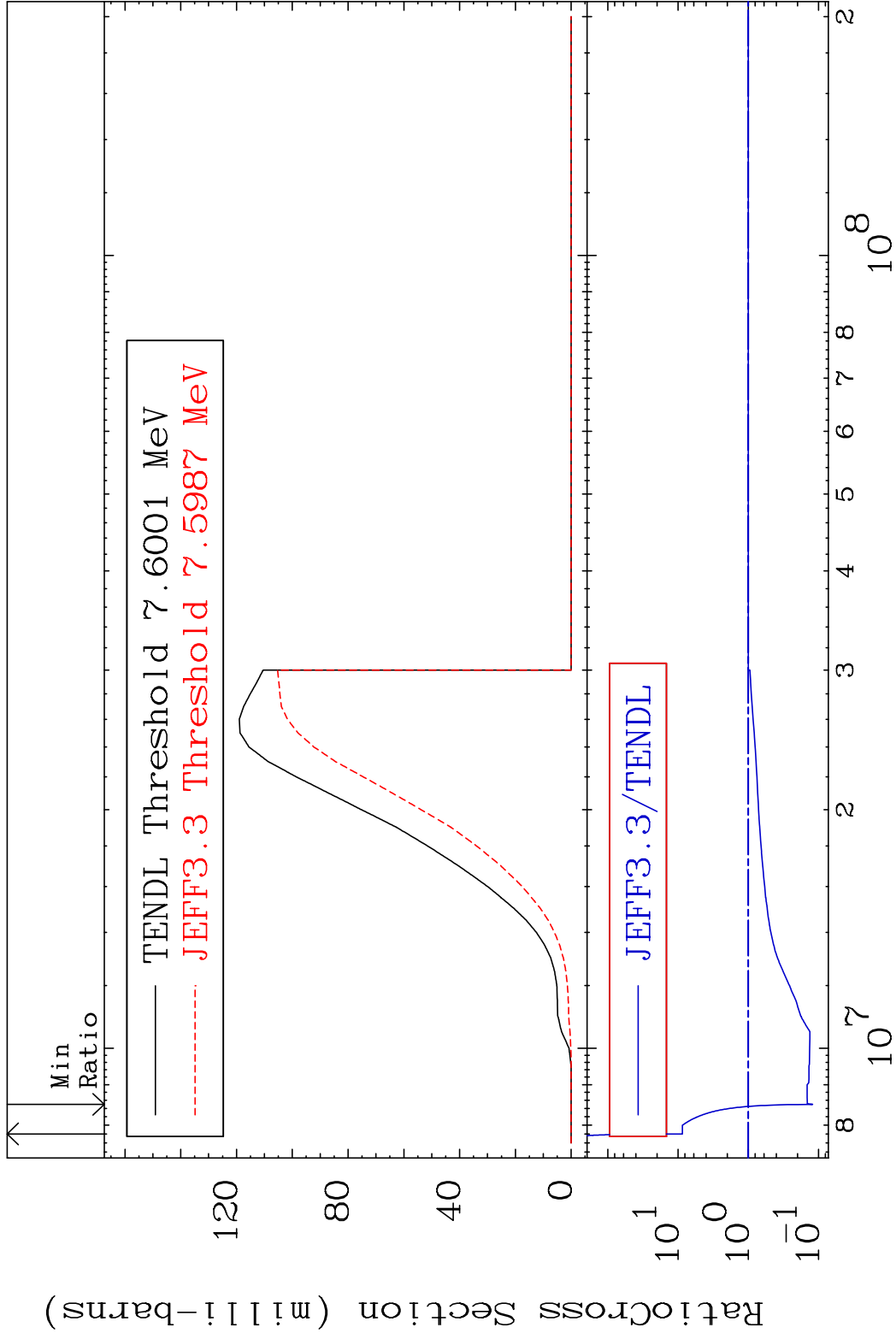


MAT 3531

(n, n') p

35-Br-81

Cross Section -87.81 To 770.3 %



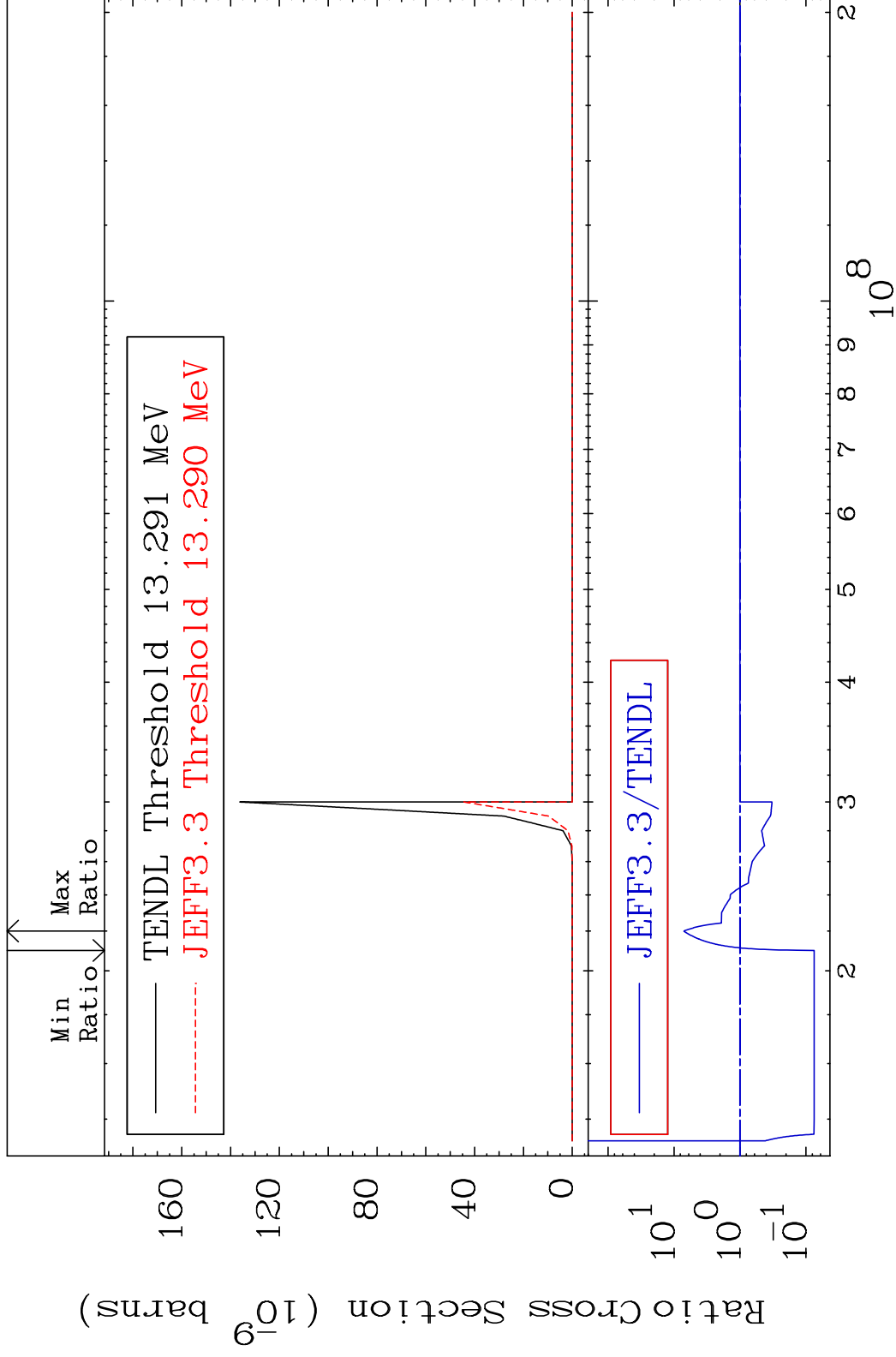
10

Incident Energy (eV)

35-Br-81

MAT 3531

(n, n') 2 α 35-Br-81
Cross Section -92.51 To 613.3 %

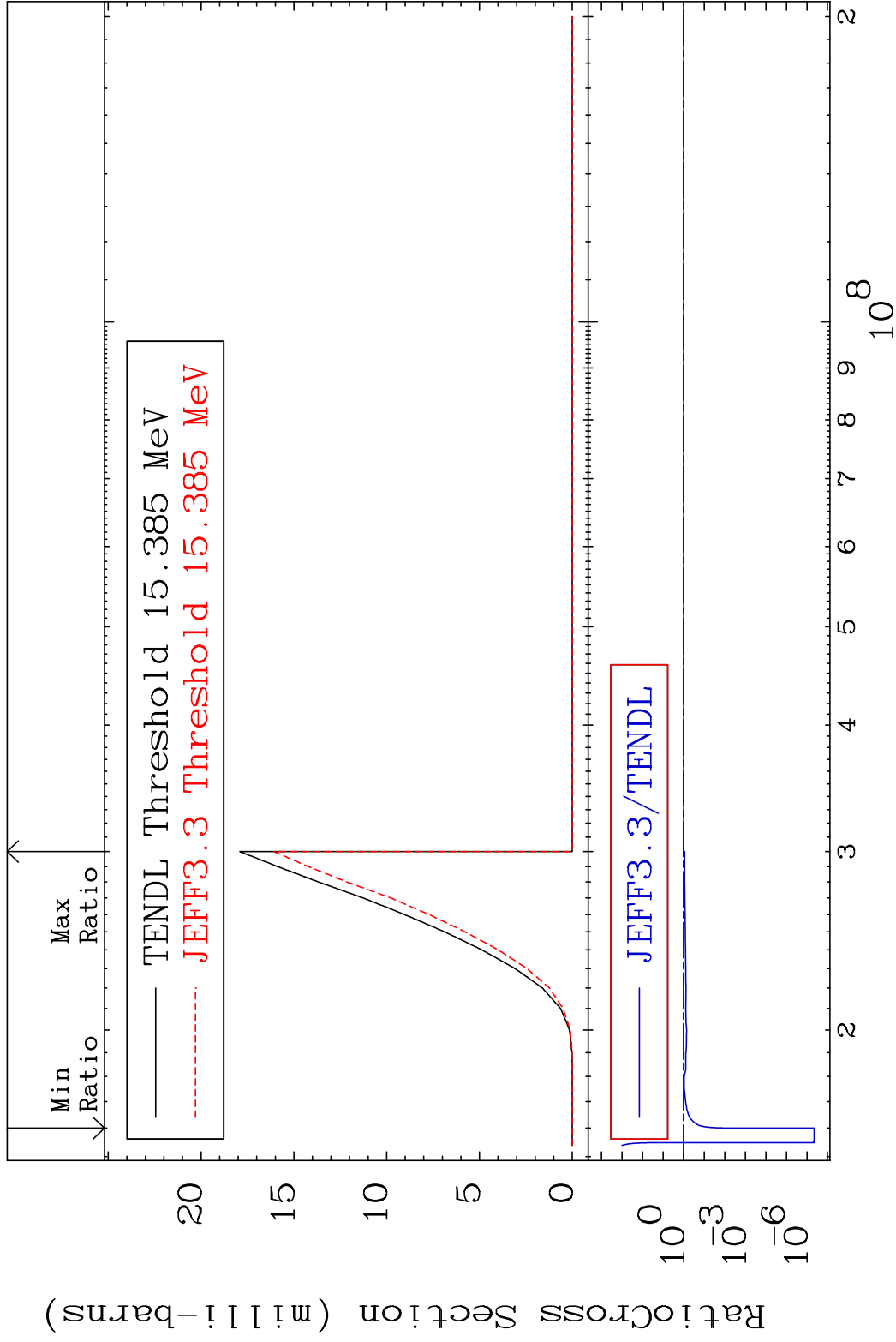


MAT 3531

(n, n') d

35-Br-81

Cross Section -100.0 To 0.000 %



12

Incident Energy (eV)

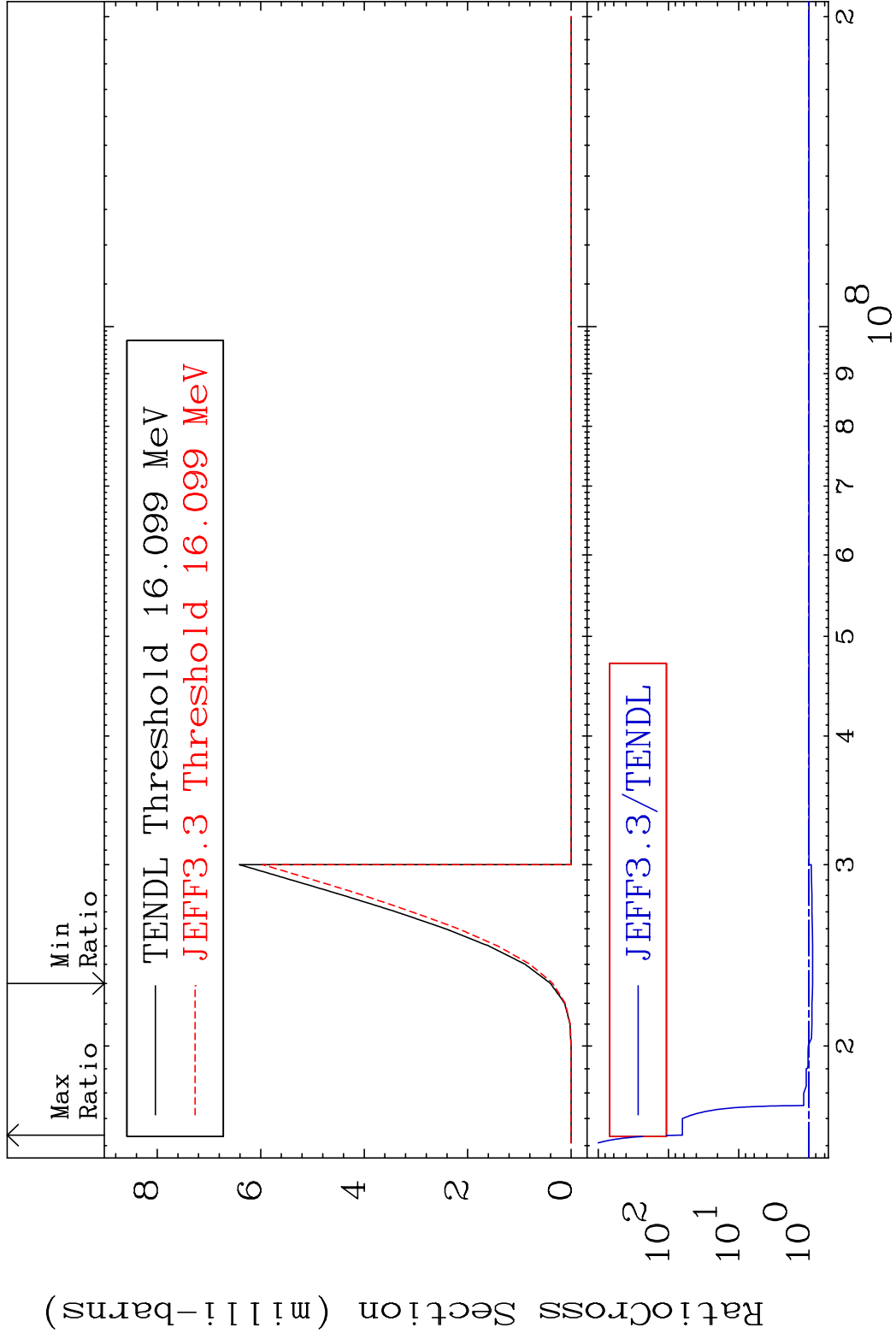
35-Br-81

MAT 3531

(n, n') t

35-Br-81

Cross Section -10.96 To 6240. %

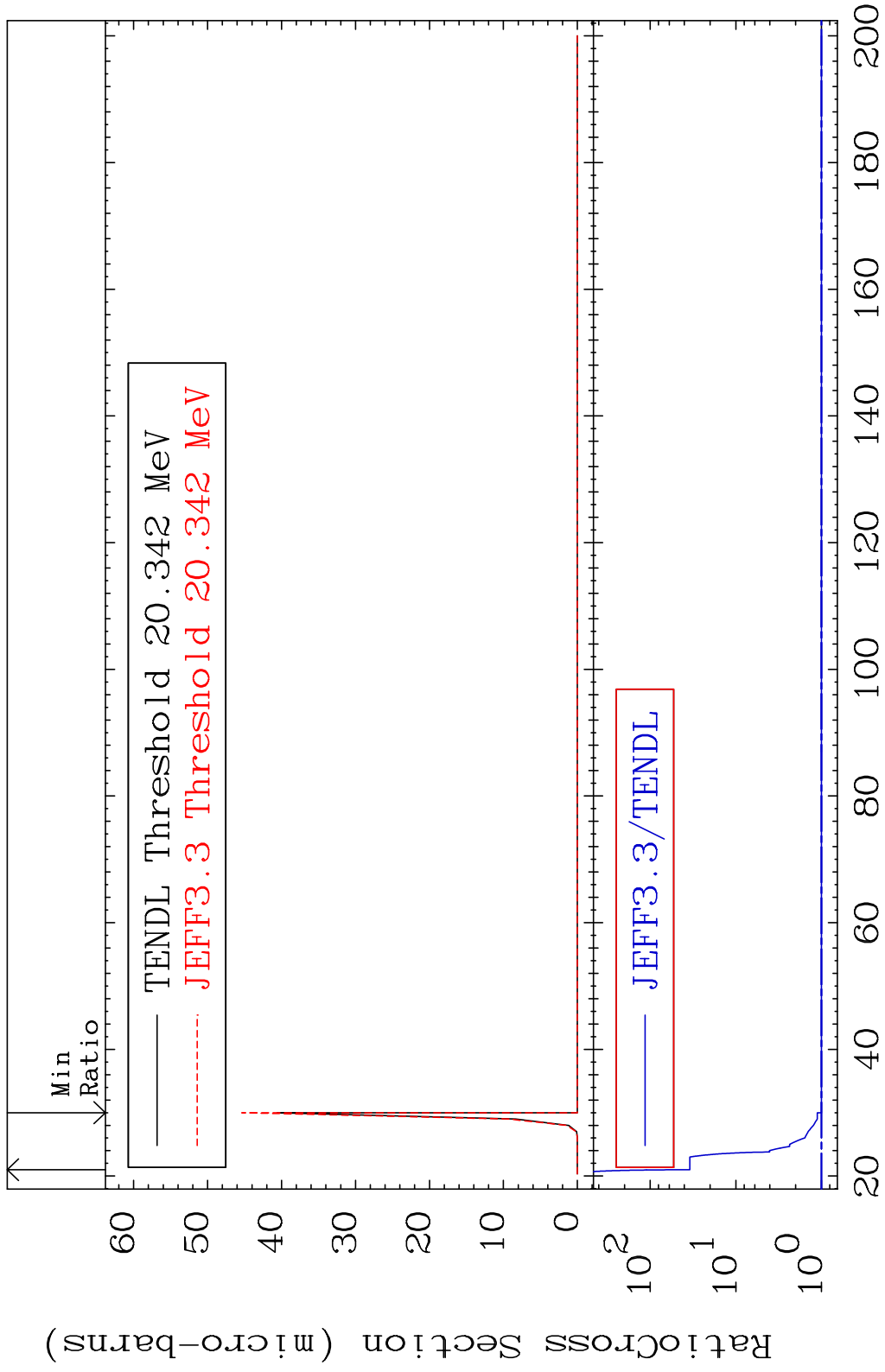


MAT 3531

(n,n') He-3

35-Br-81

Cross Section 0.000 To 3352. %

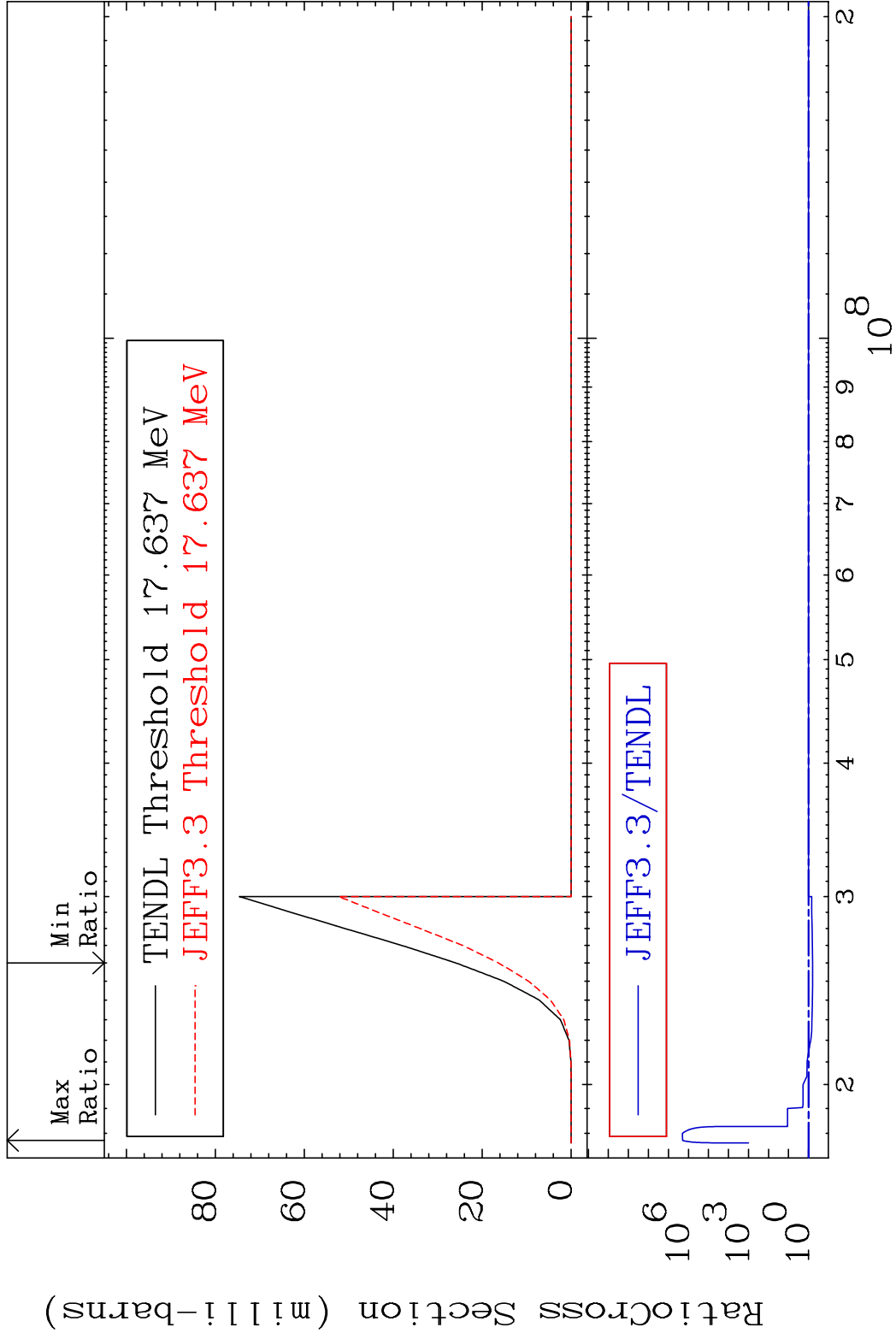


MAT 3531

(n,2n) p

35-Br-81

Cross Section -37.04 To 9999. %

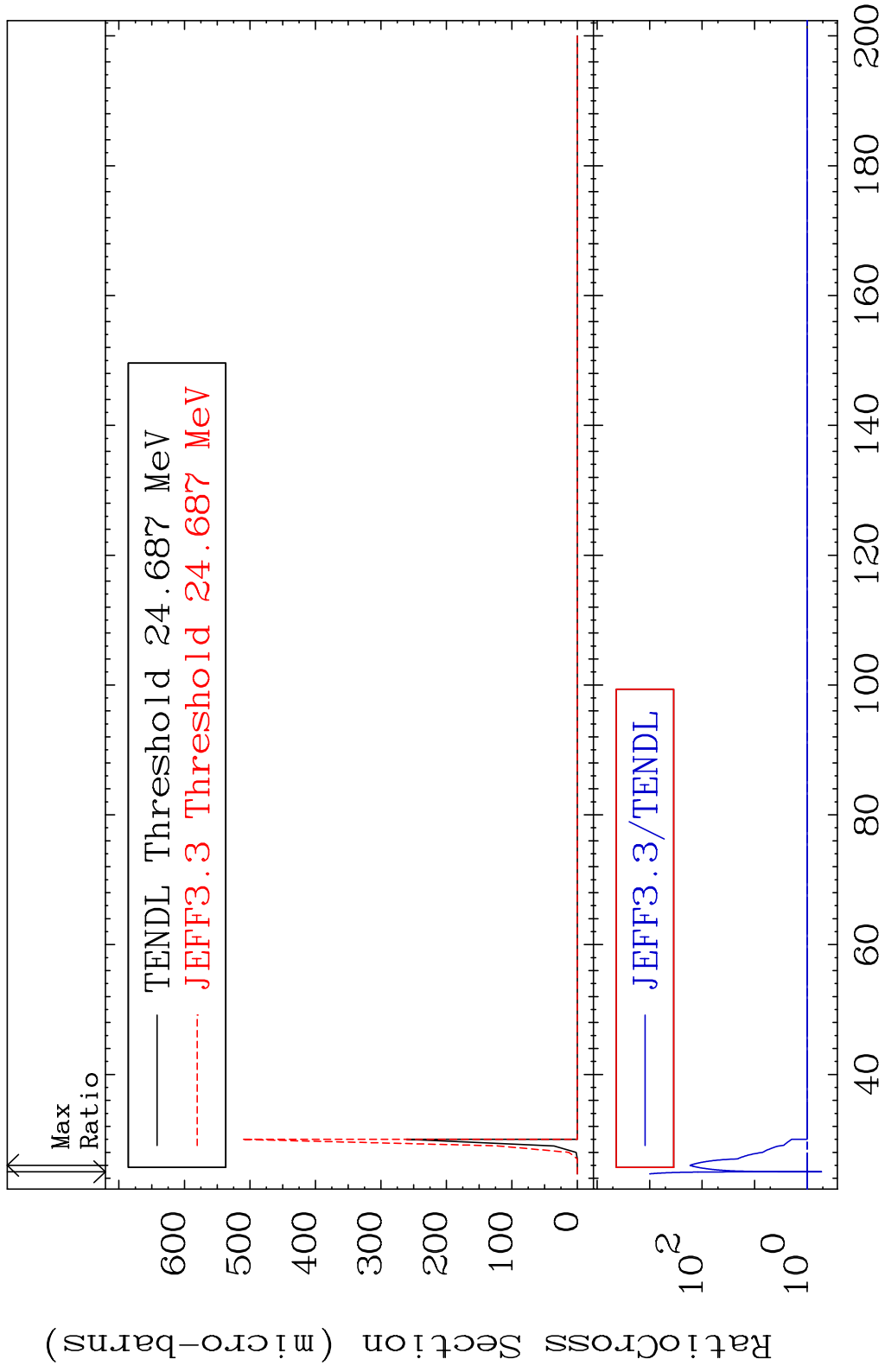


MAT 3531

(n,3n) p

35-Br-81

Cross Section -46.65 To 9999. %

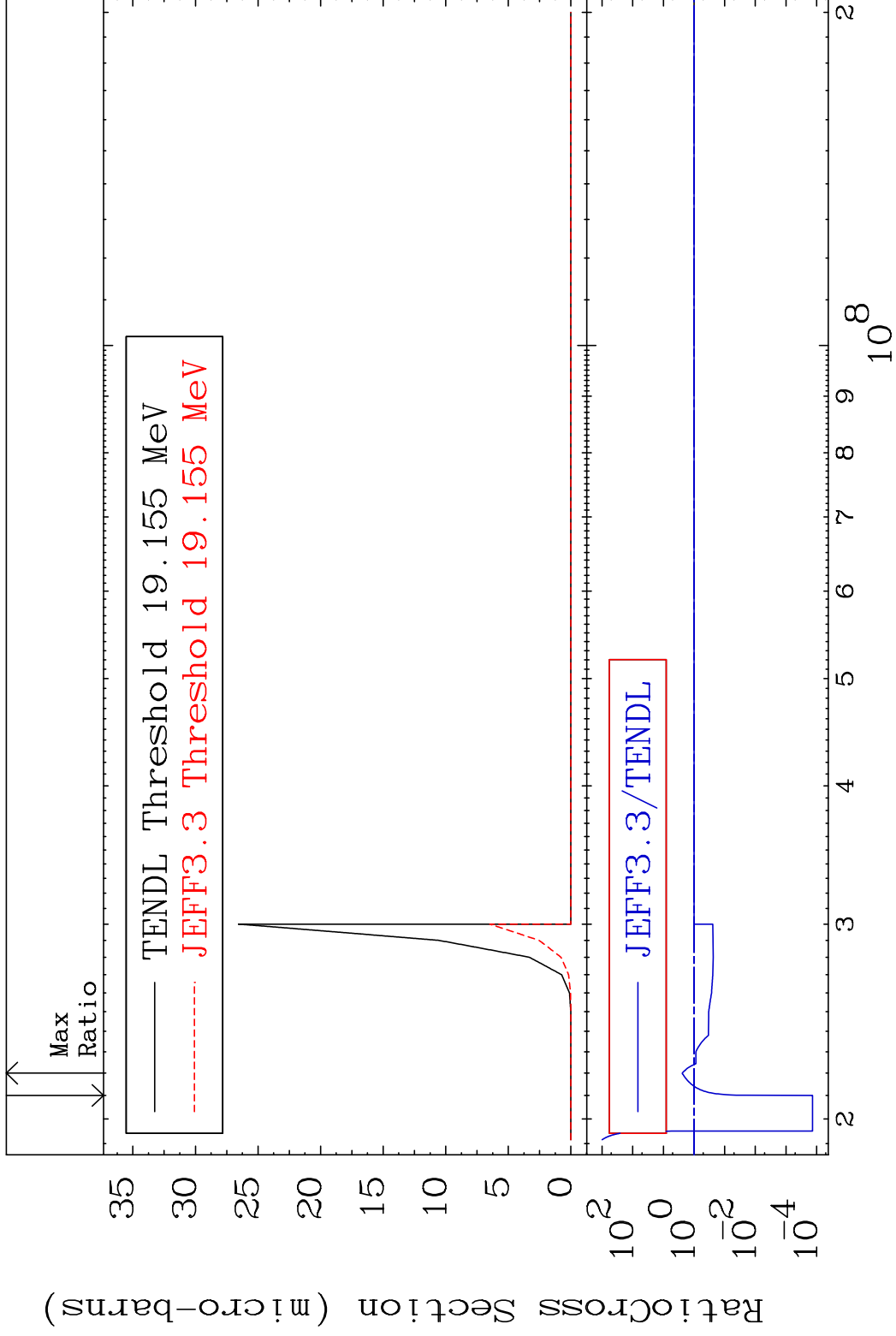


MAT 3531

(n,2n) p

35-Br-81

Cross Section -99.99 To 144.0 %



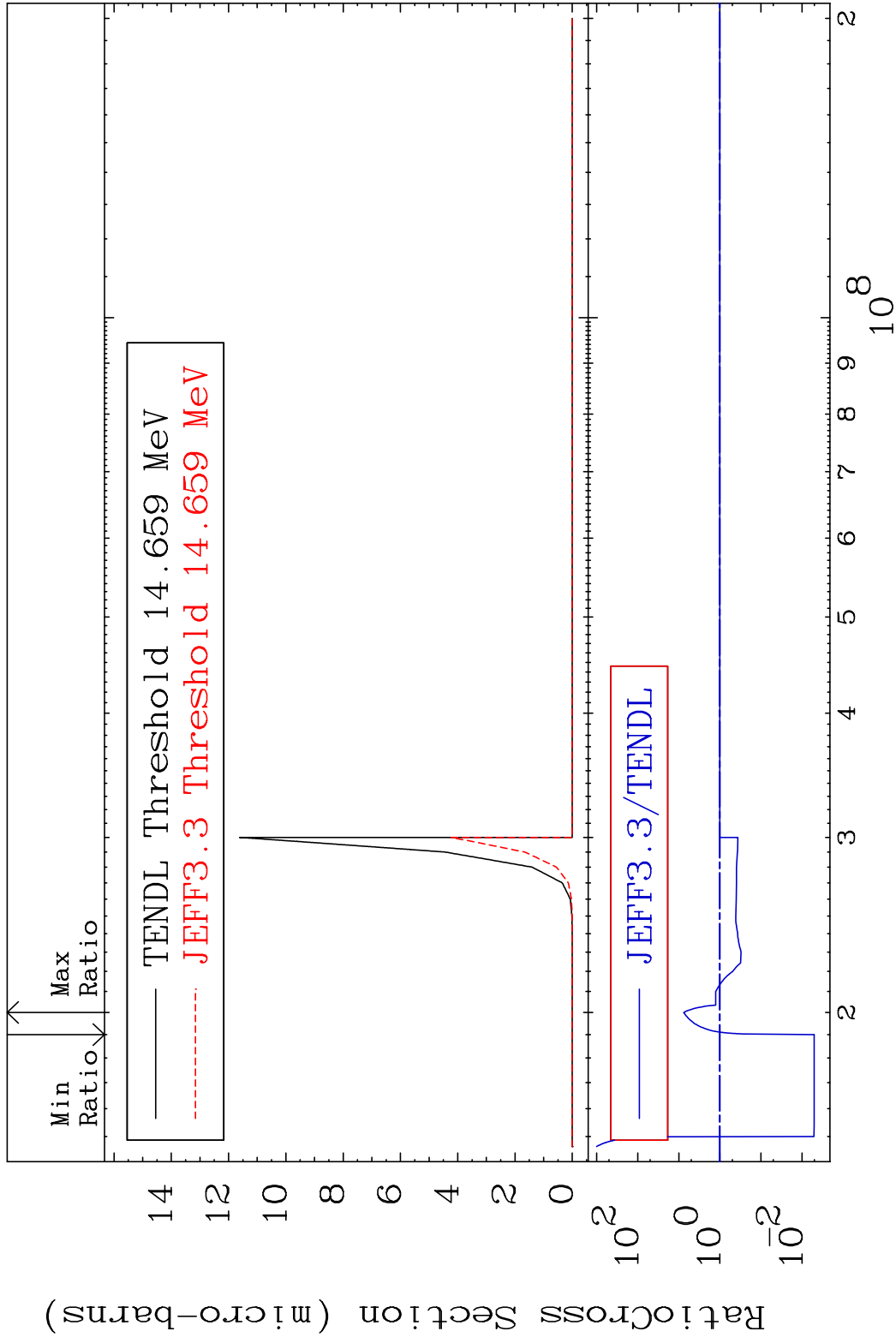
17

Incident Energy (eV)

35-Br-81

MAT 3531

(n, n') p α 35-Br-81
Cross Section -99.49 To 661.0 %

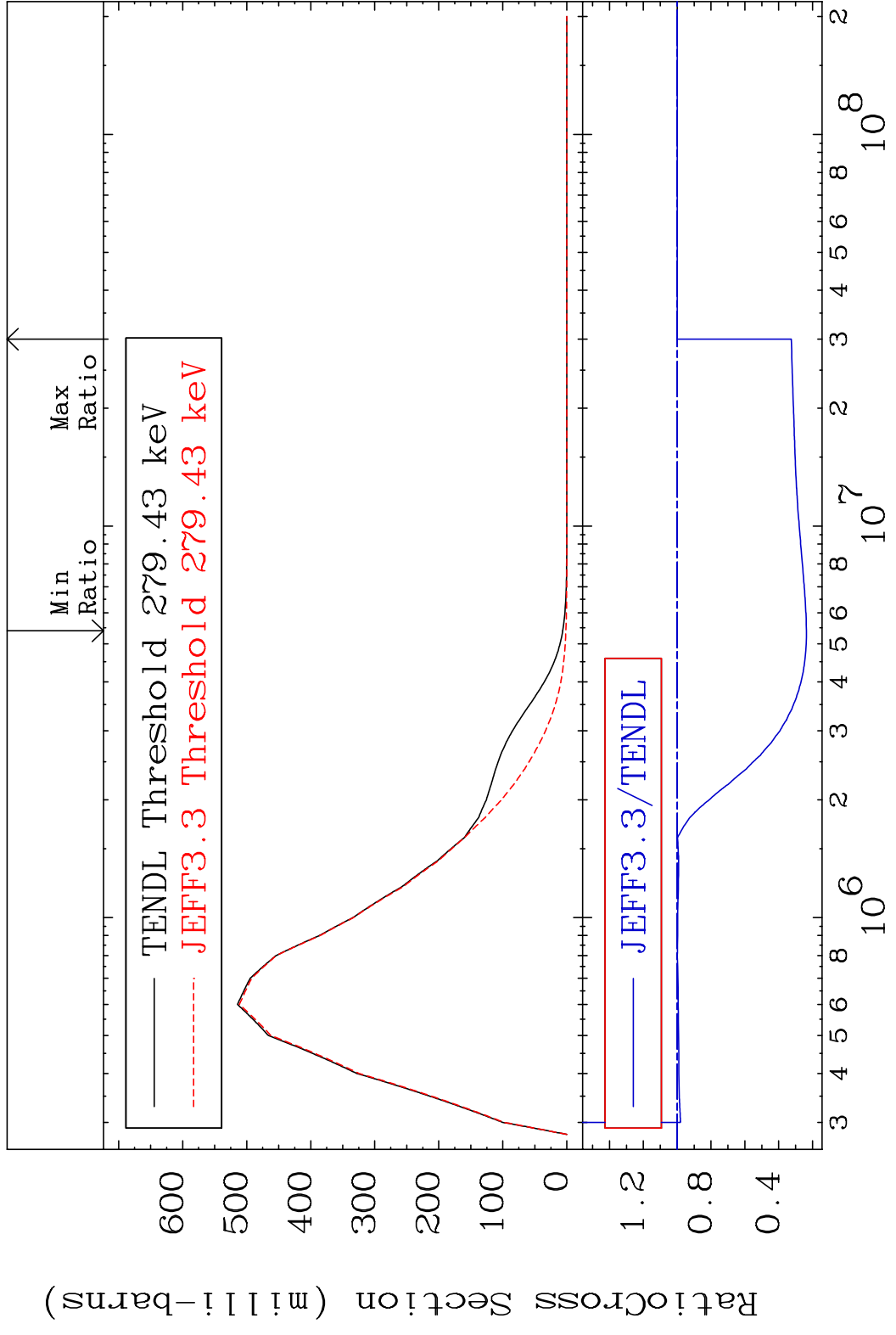


18

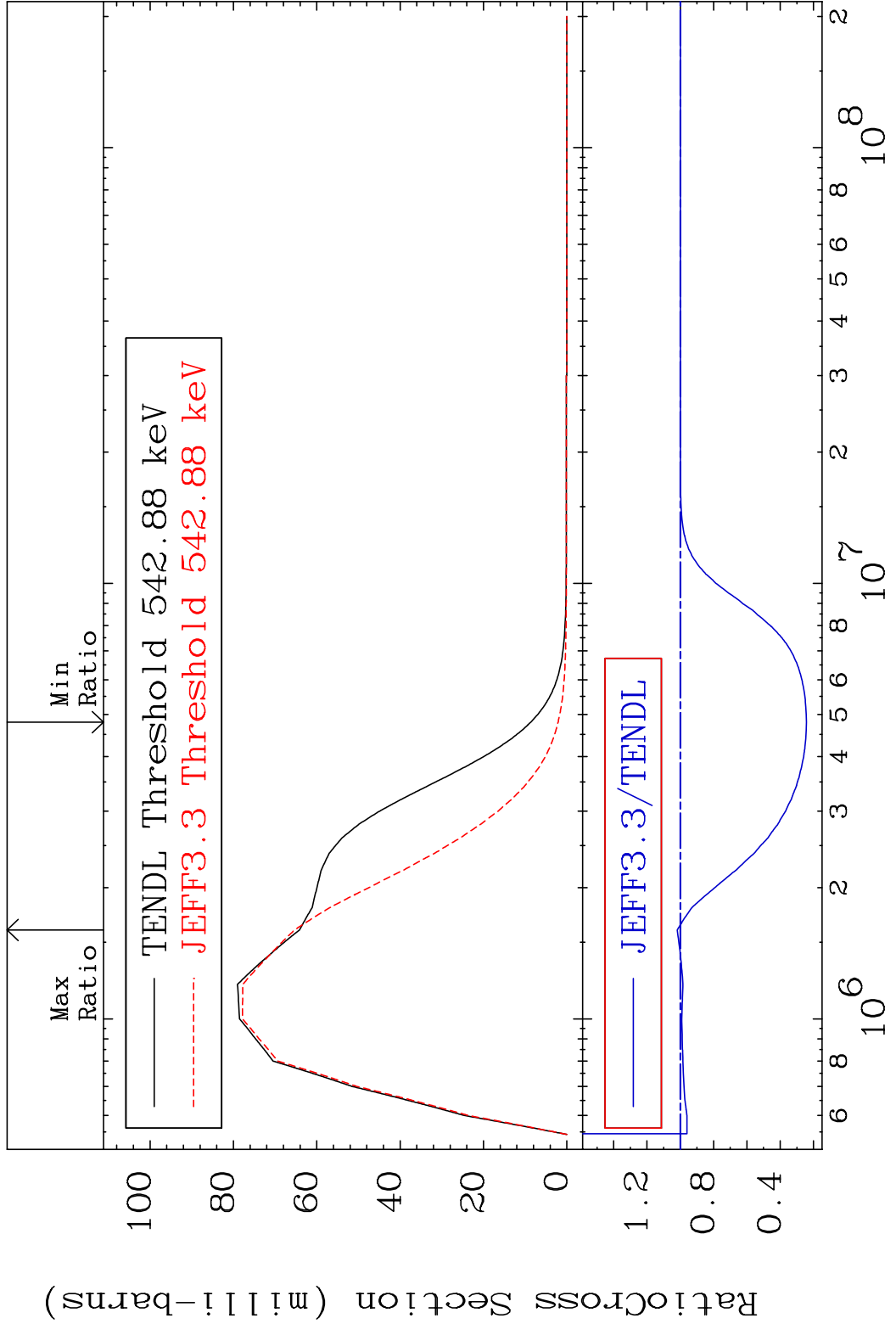
Incident Energy (eV)

35-Br-81

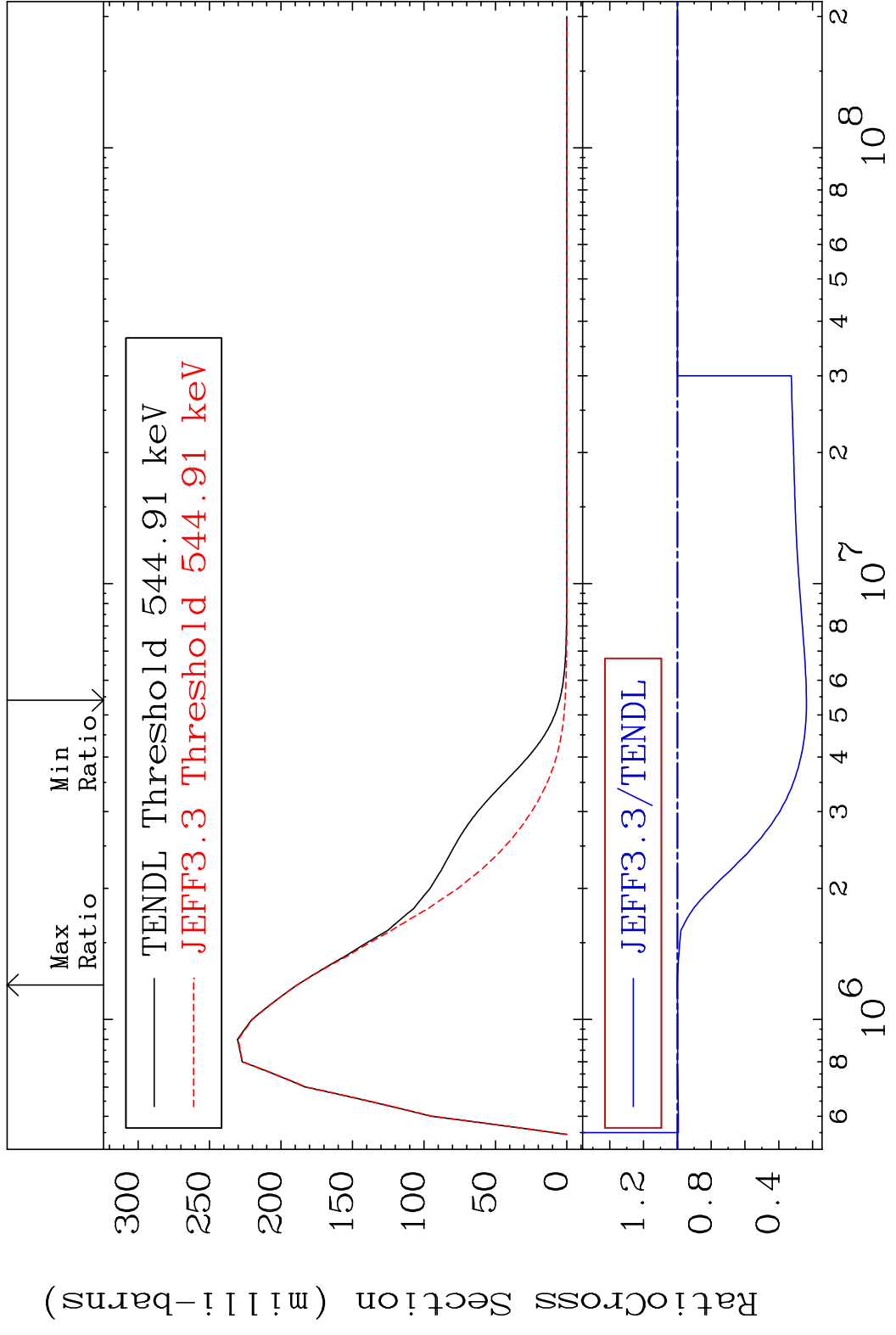
MAT 3531 MT= 51 (n, n') Level 35-Br-81
 Cross Section -76.38 To 0.000 %



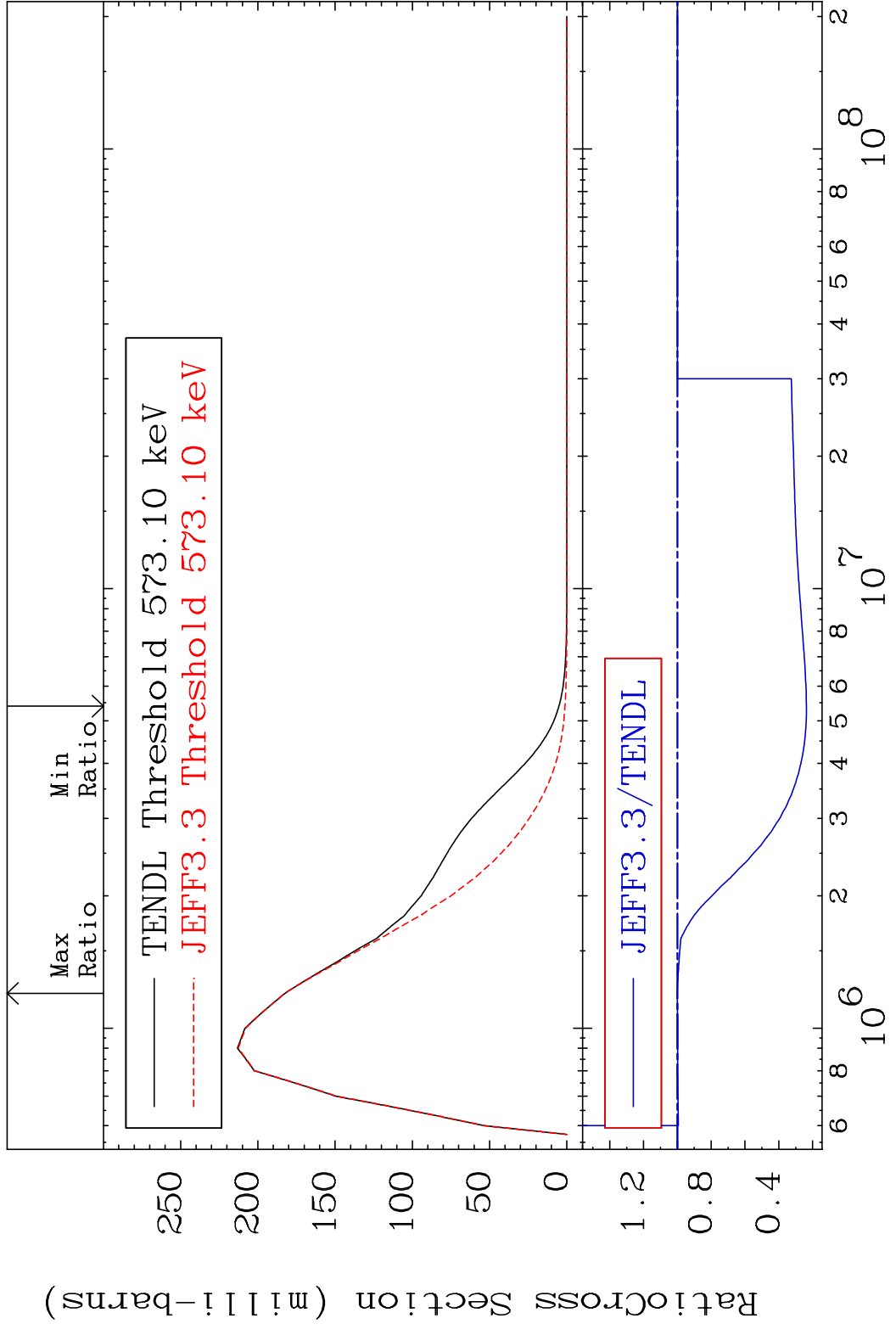
MAT 3531 MT= 52 (n, n') Level 35-Br-81
 Cross Section -75.73 To 1.858 %



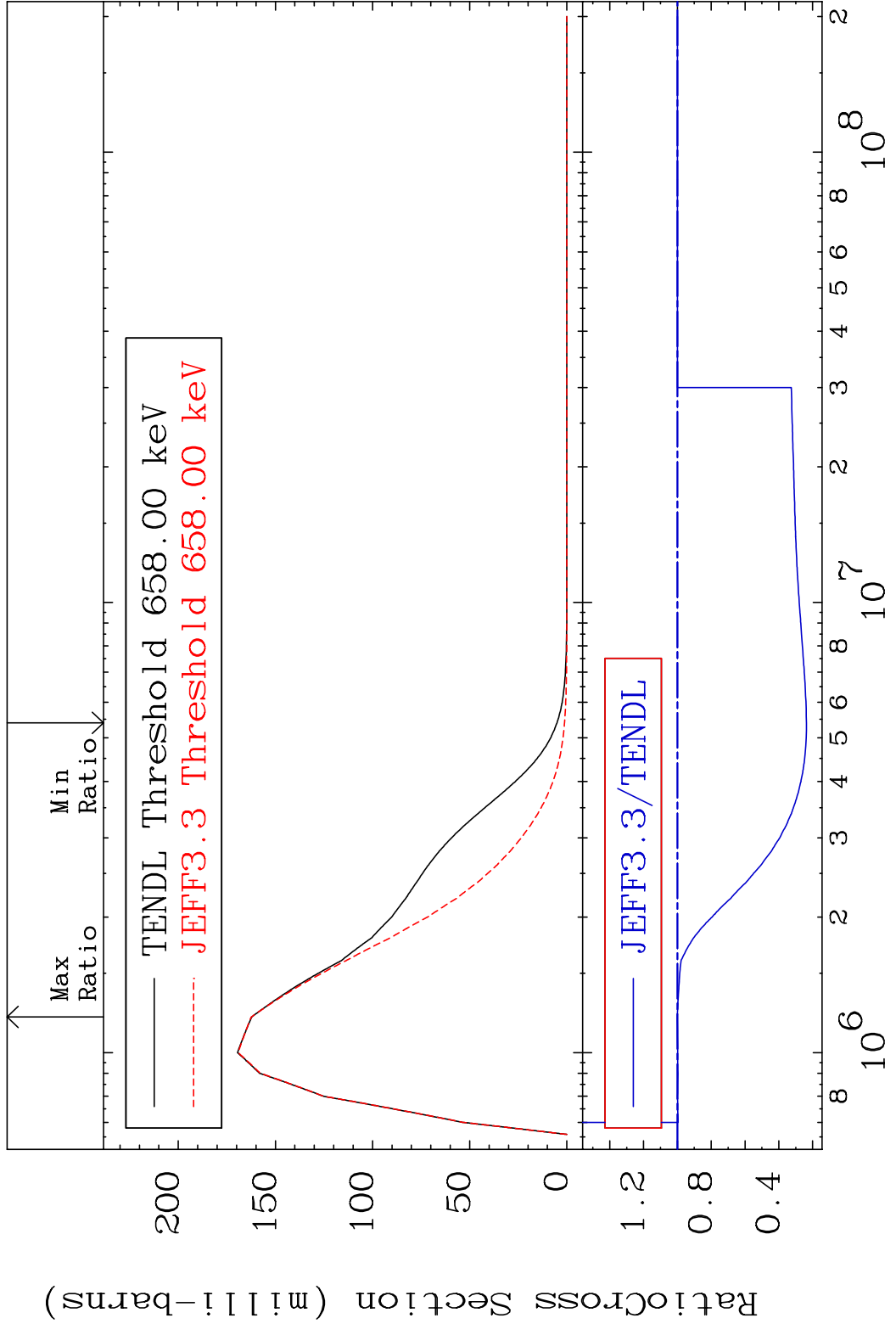
MAT 3531 MT= 53 (n, n') Level 35-Br-81
 Cross Section -76.33 To 0.118 %



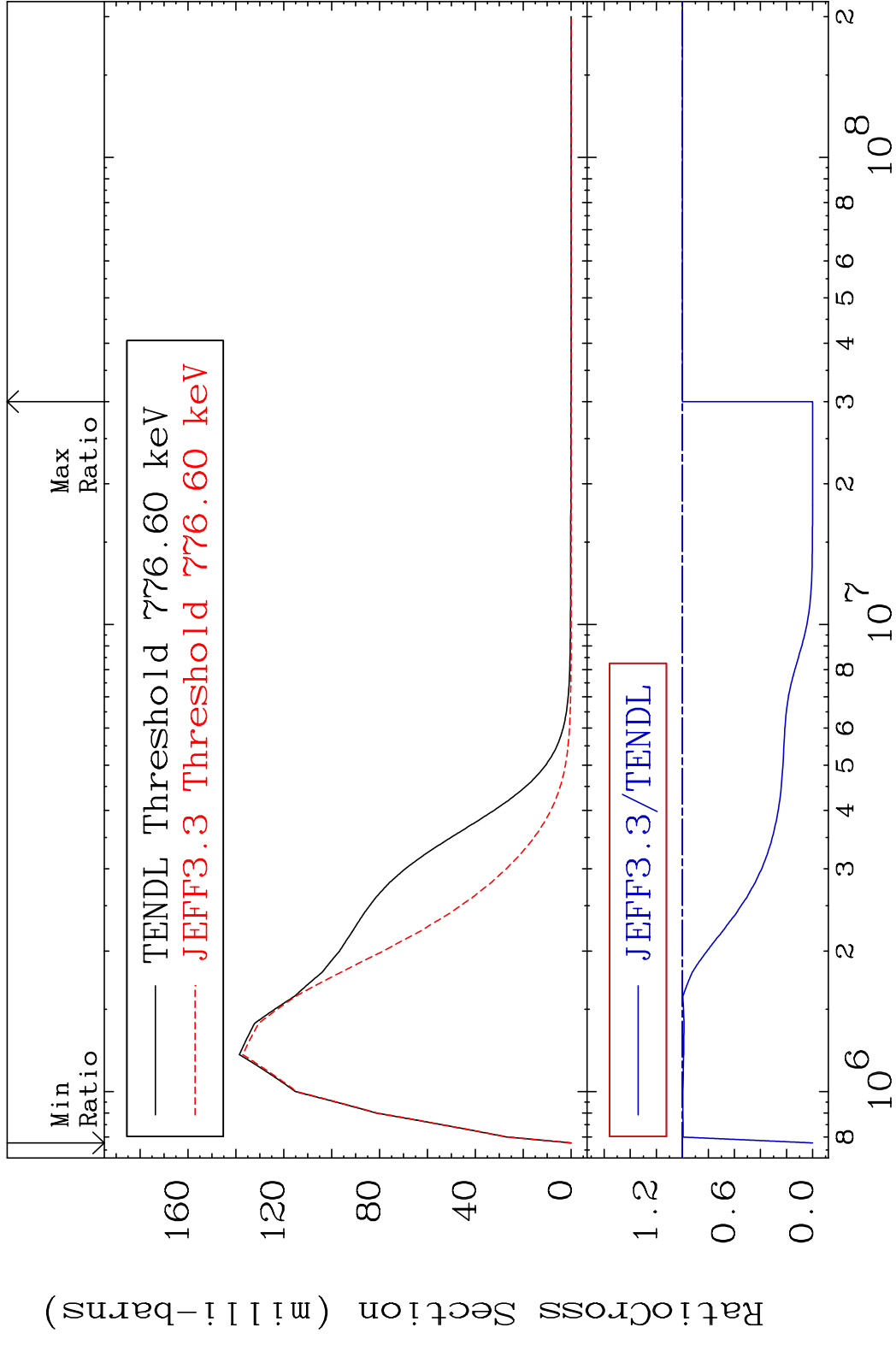
MAT 3531 MT= 54 (n, n') Level 35-Br-81
 Cross Section -76.33 To 0.121 %



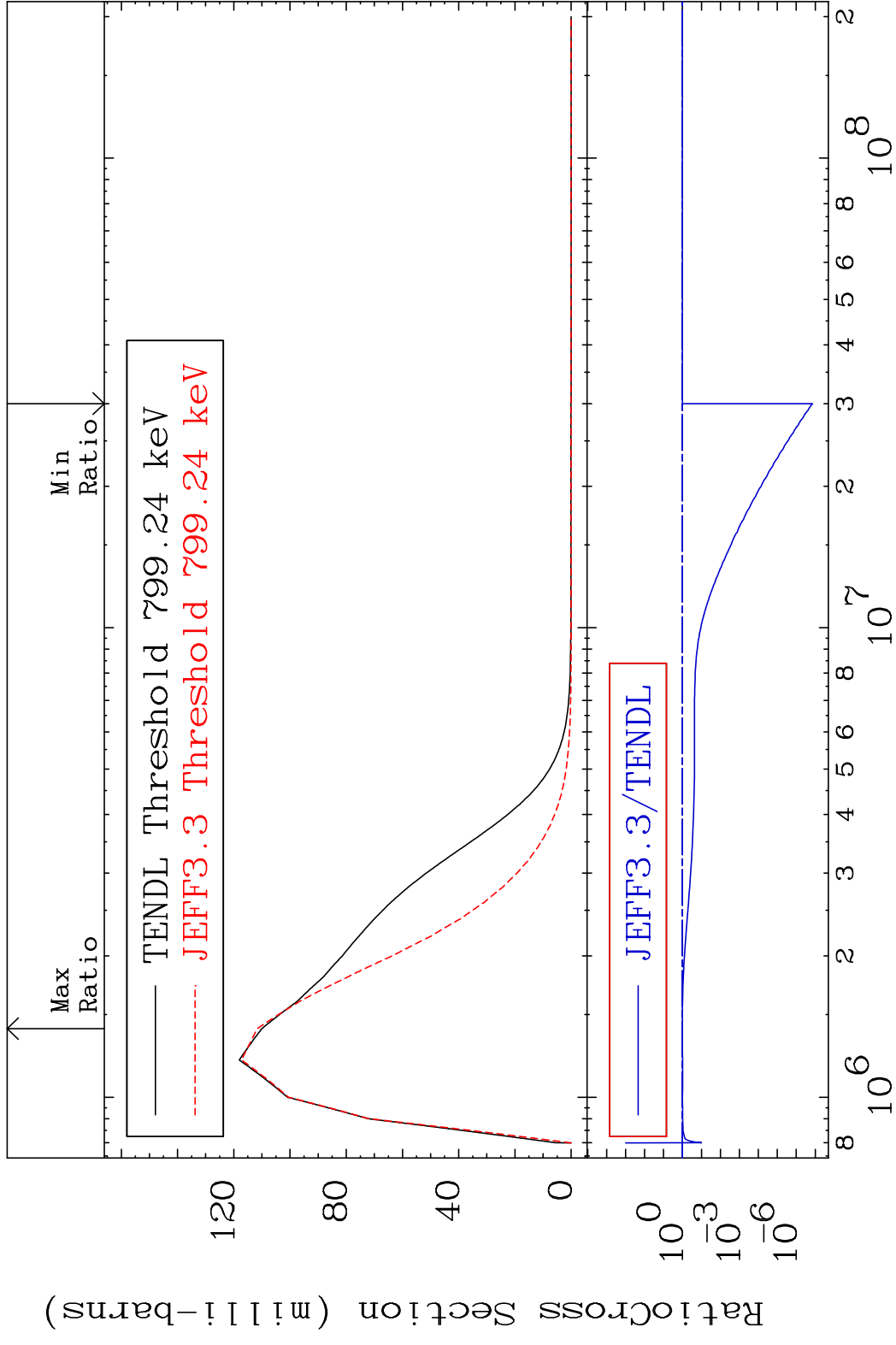
MAT 3531 MT= 55 (n, n') Level 35-Br-81
 Cross Section -76.33 To 0.129 %



MAT 3531 MT= 56 (n, n') Level 35-Br-81
 Cross Section -100.0 To 0.000 %

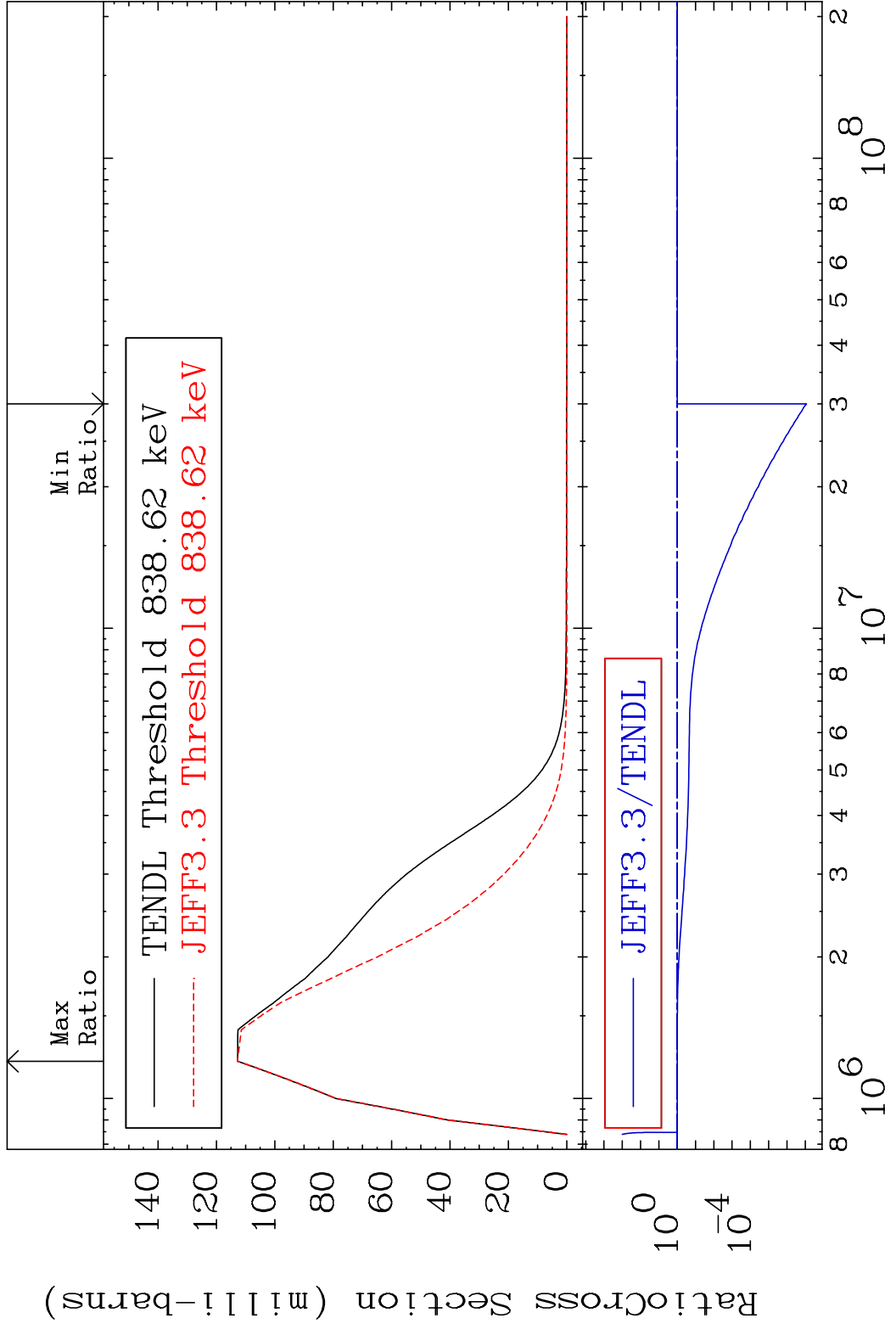


MAT 3531 MT= 57 (n,n') Level 35-Br-81
 Cross Section -100.0 To 1.469 %



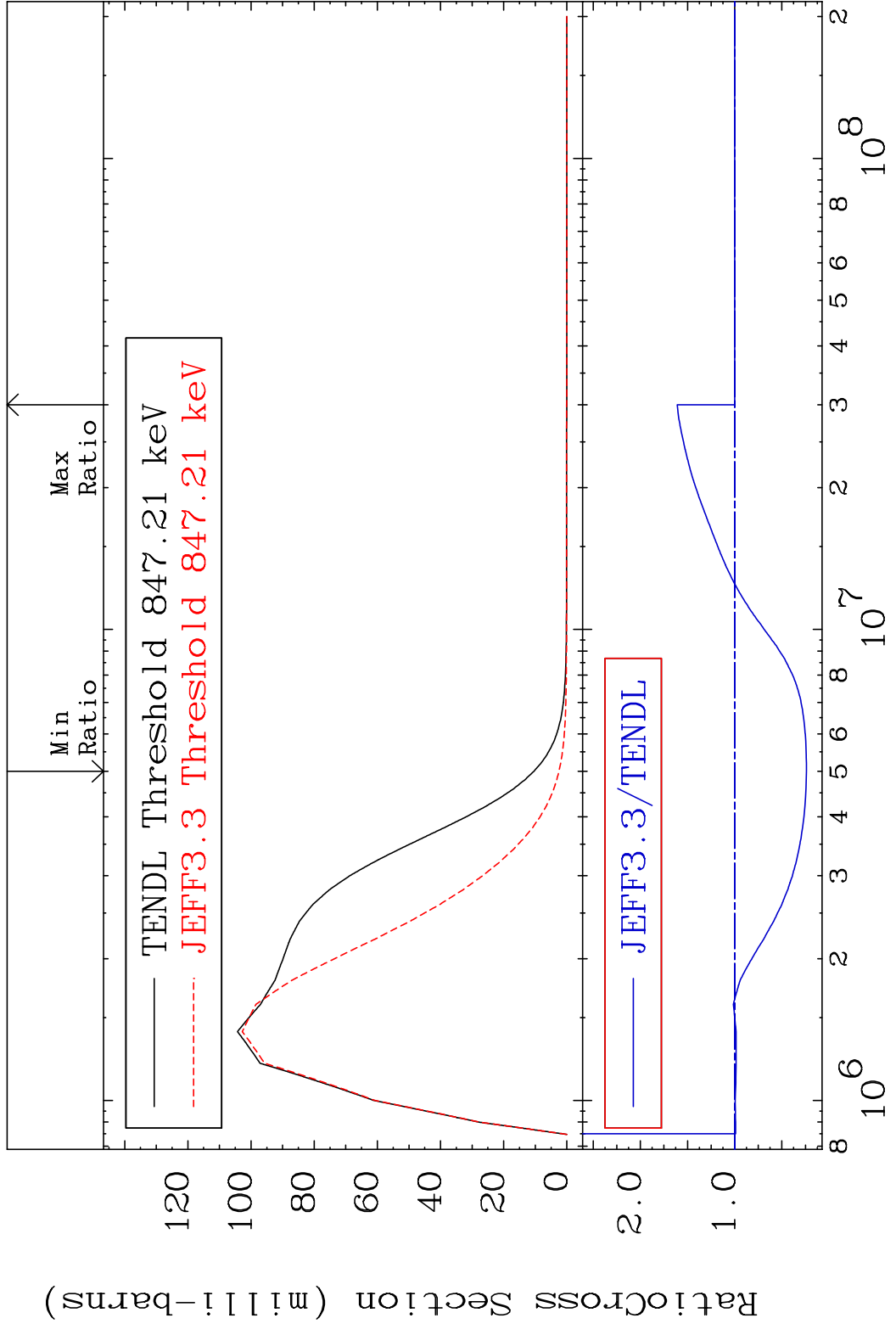
25 Incident Energy (eV) 35-Br-81

MAT 3531 MT= 58 (n, n') Level 35-Br-81
 Cross Section -100.0 To 0.024 %

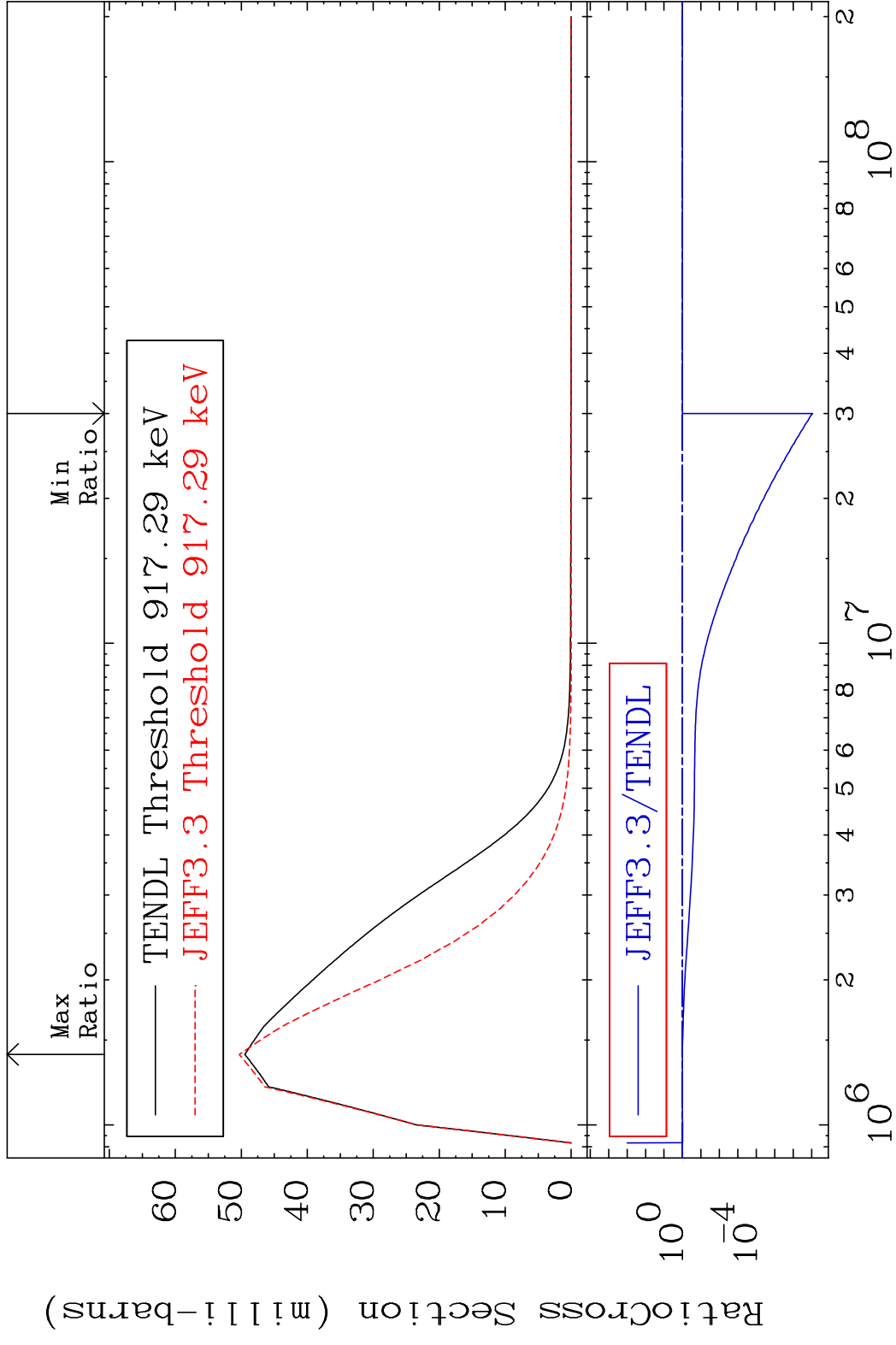


26 Incident Energy (eV) 35-Br-81

MAT 3531 MT= 59 (n, n') Level 35-Br-81
 Cross Section -76.03 To 60.96 %



MAT 3531 MT= 60 (n, n') Level 35-Br-81
 Cross Section -100.0 To 1.693 %



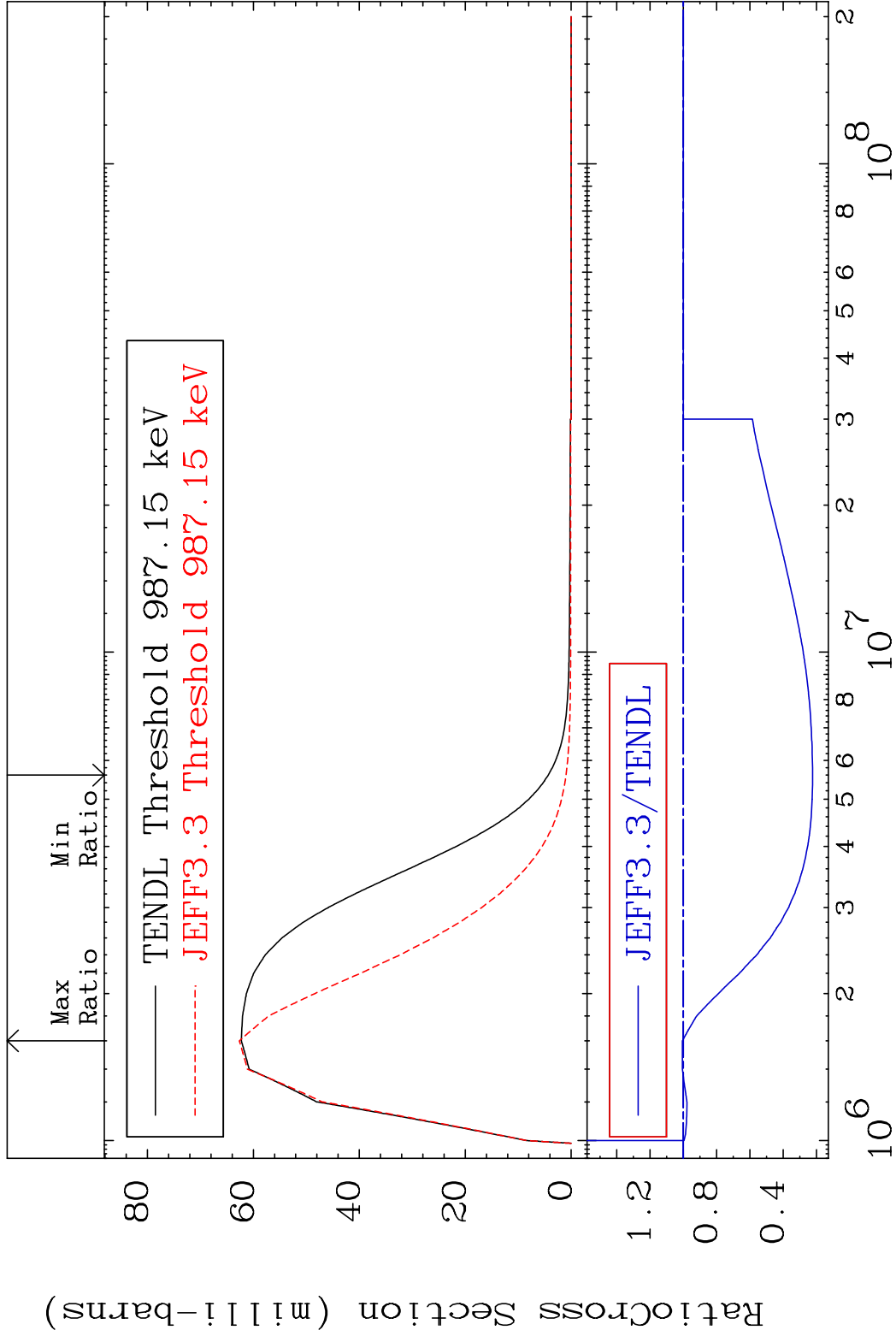
28 Incident Energy (eV) 35-Br-81

MAT 3531

MT= 61 (n, n') Level

35-Br-81

Cross Section -77.61 To 0.610 %

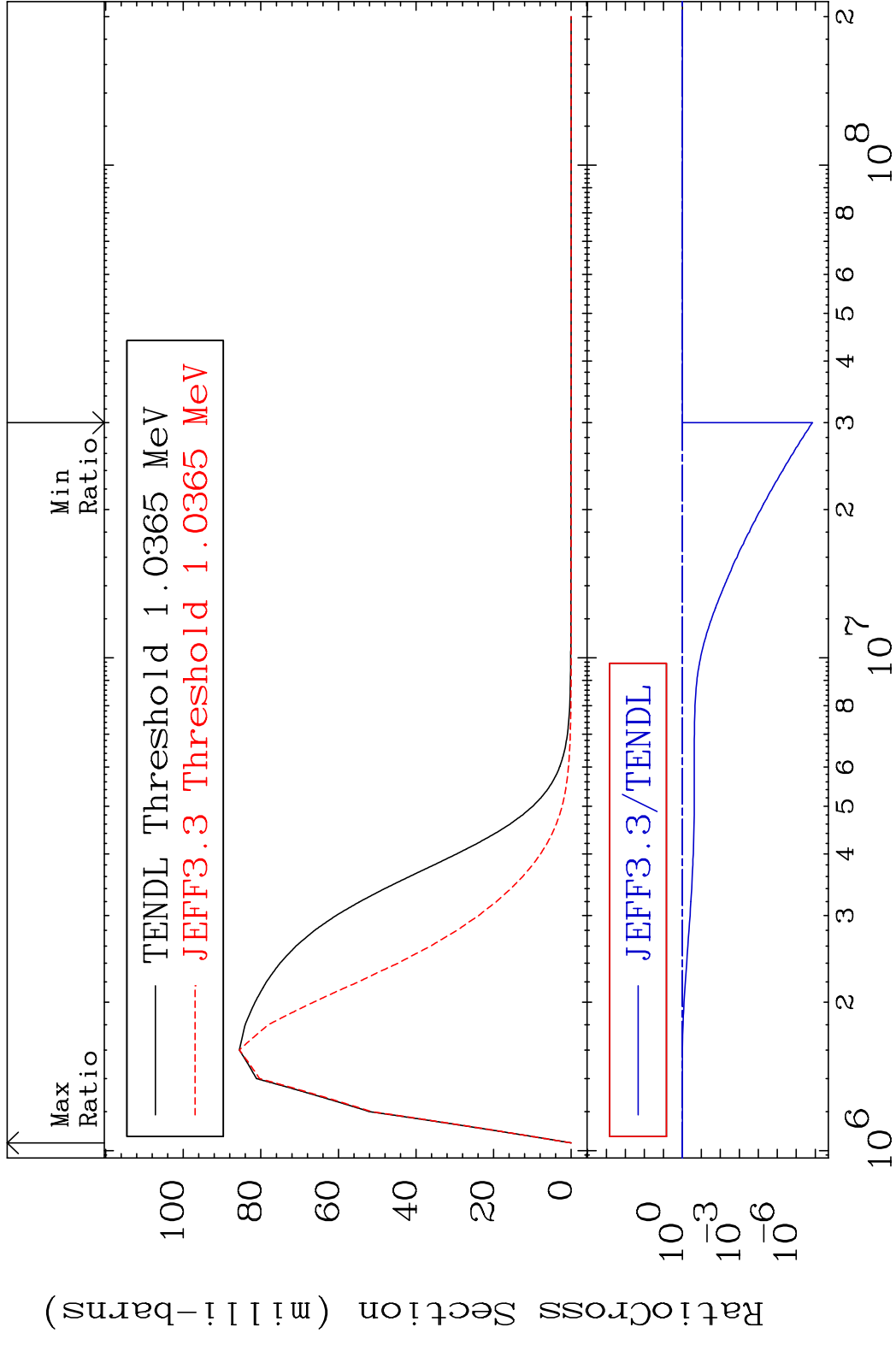


29

Incident Energy (eV)

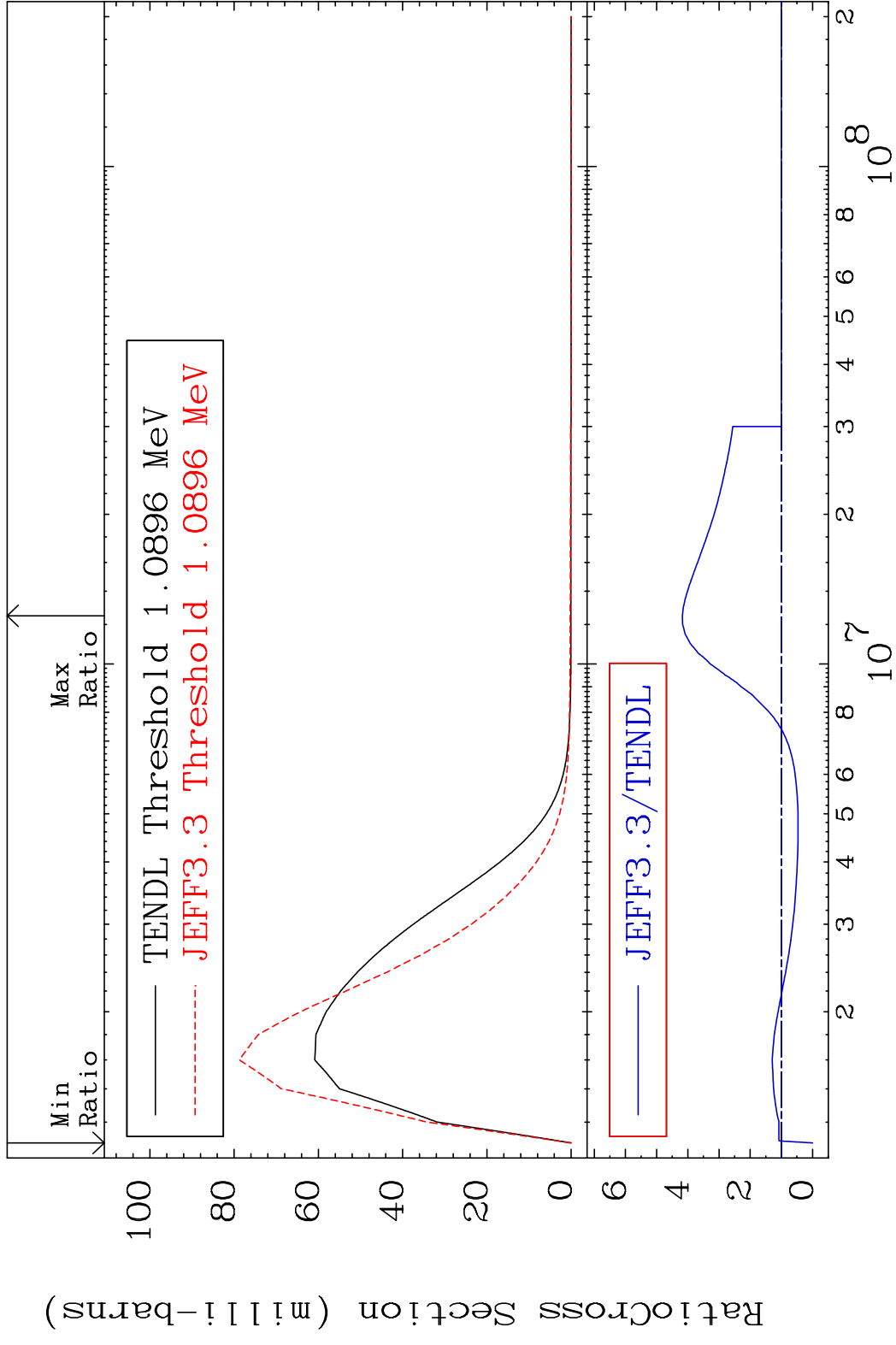
35-Br-81

MAT 3531 MT= 62 (n, n') Level 35-Br-81
 Cross Section -100.0 To 0.000 %

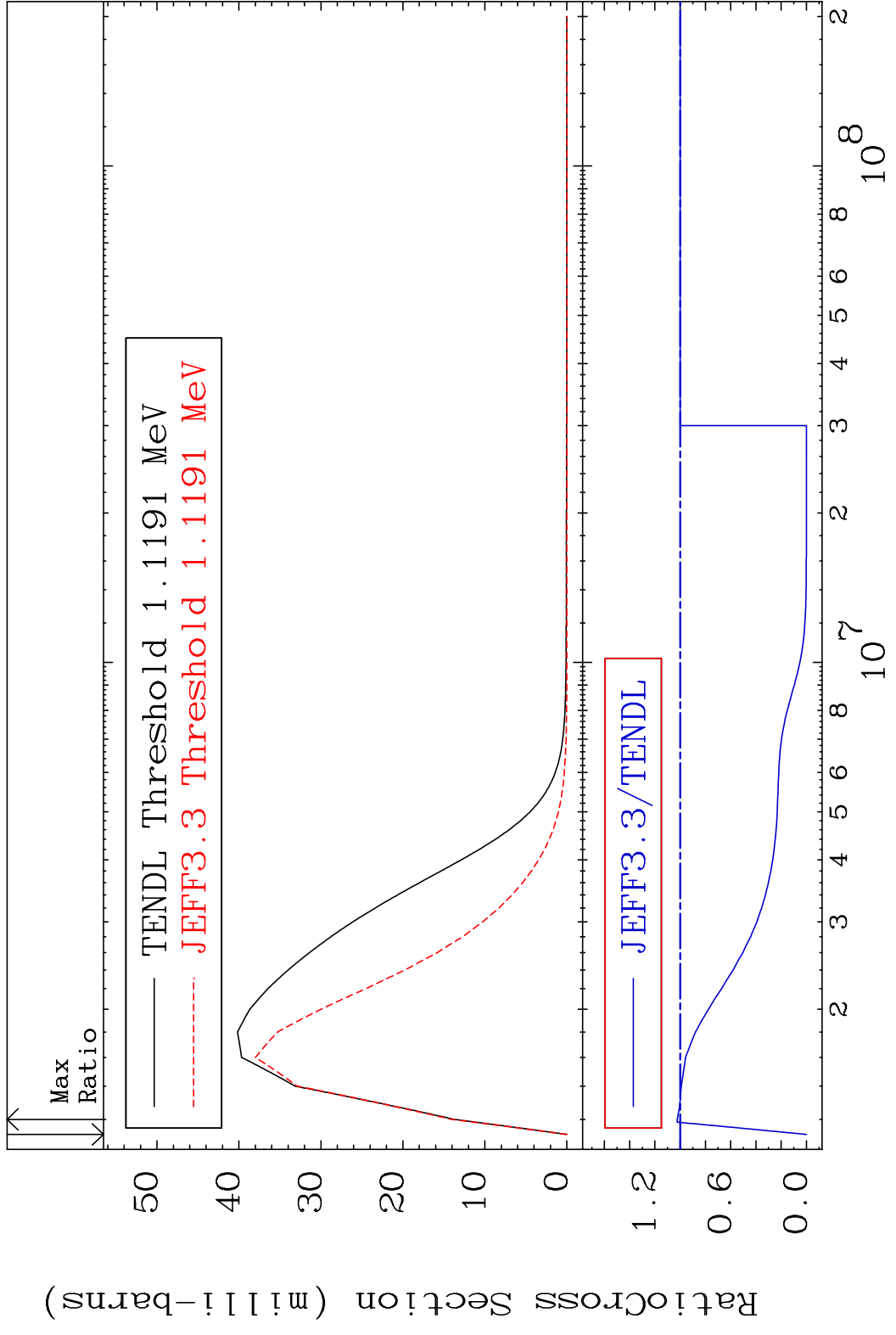


30 Incident Energy (eV) 35-Br-81

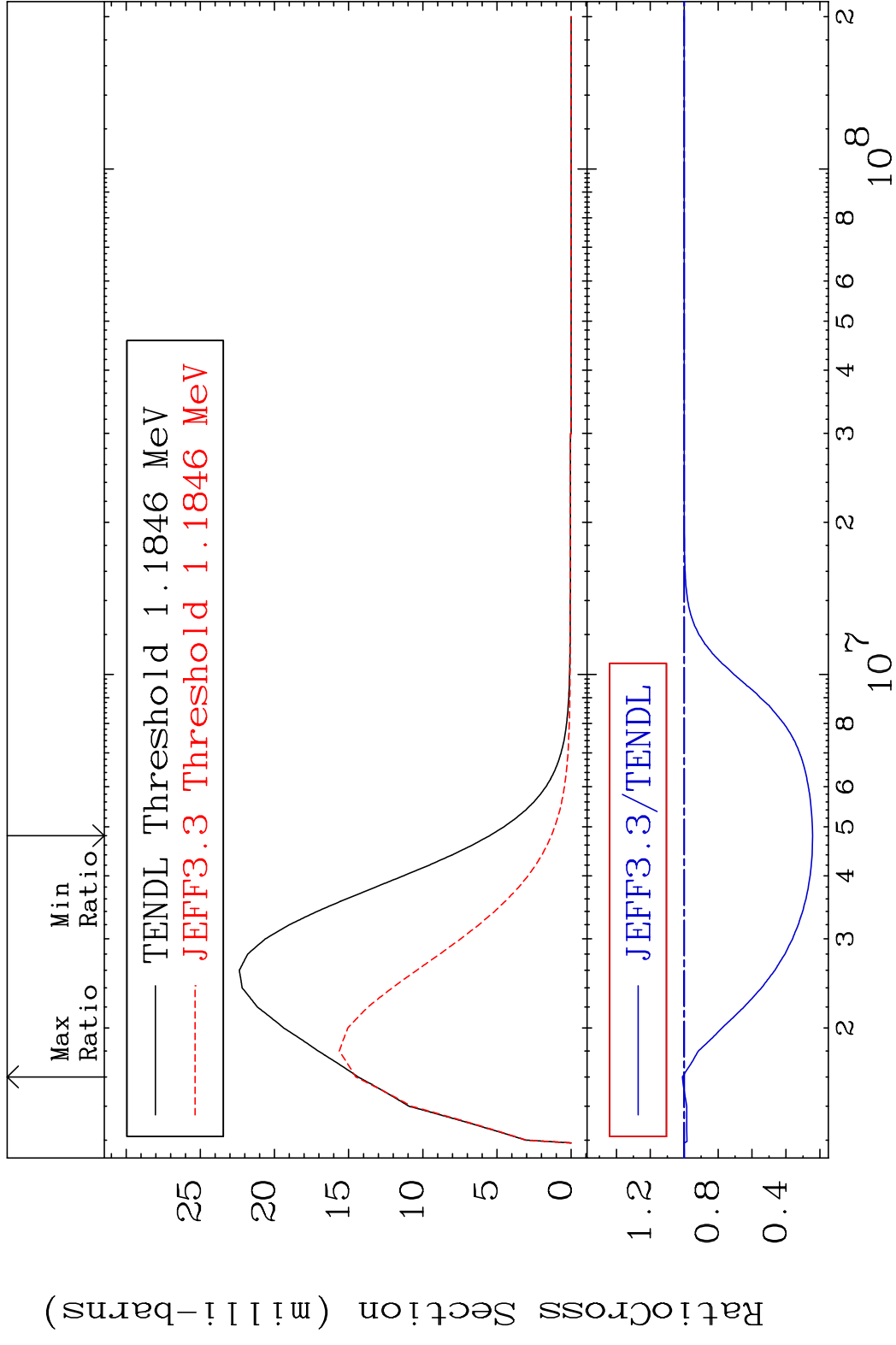
MAT 3531 MT= 63 (n, n') Level 35-Br-81
 Cross Section -100.0 To 317.5 %



MAT 3531 MT= 64 (n,n') Level 35-Br-81
 Cross Section -100.0 To 2.365 %

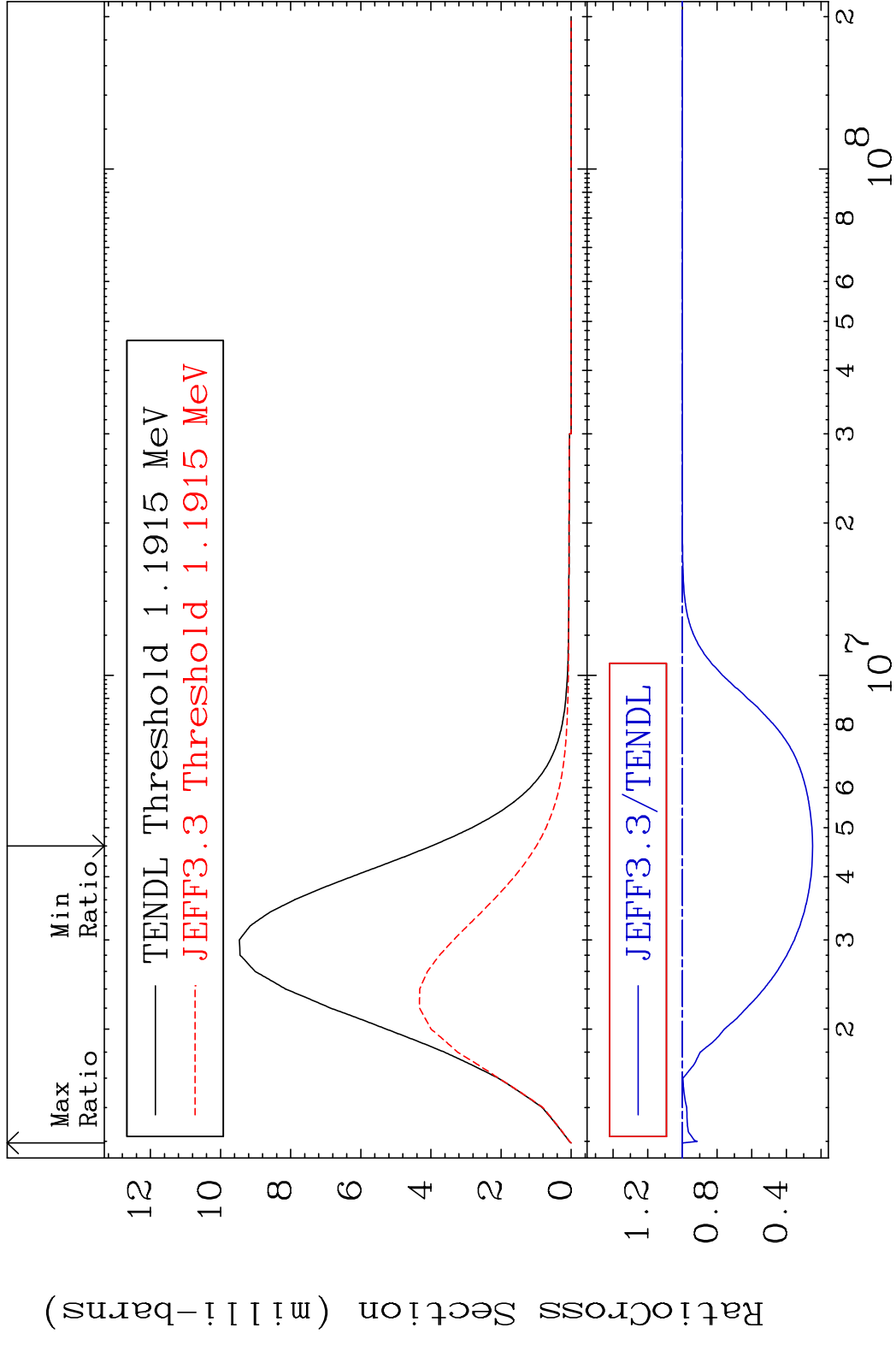


MAT 3531 MT= 65 (n,n') Level 35-Br-81
 Cross Section -75.68 To 1.094 %



33 Incident Energy (eV) 35-Br-81

MAT 3531 MT= 66 (n,n') Level 35-Br-81
 Cross Section -75.05 To 0.000 %

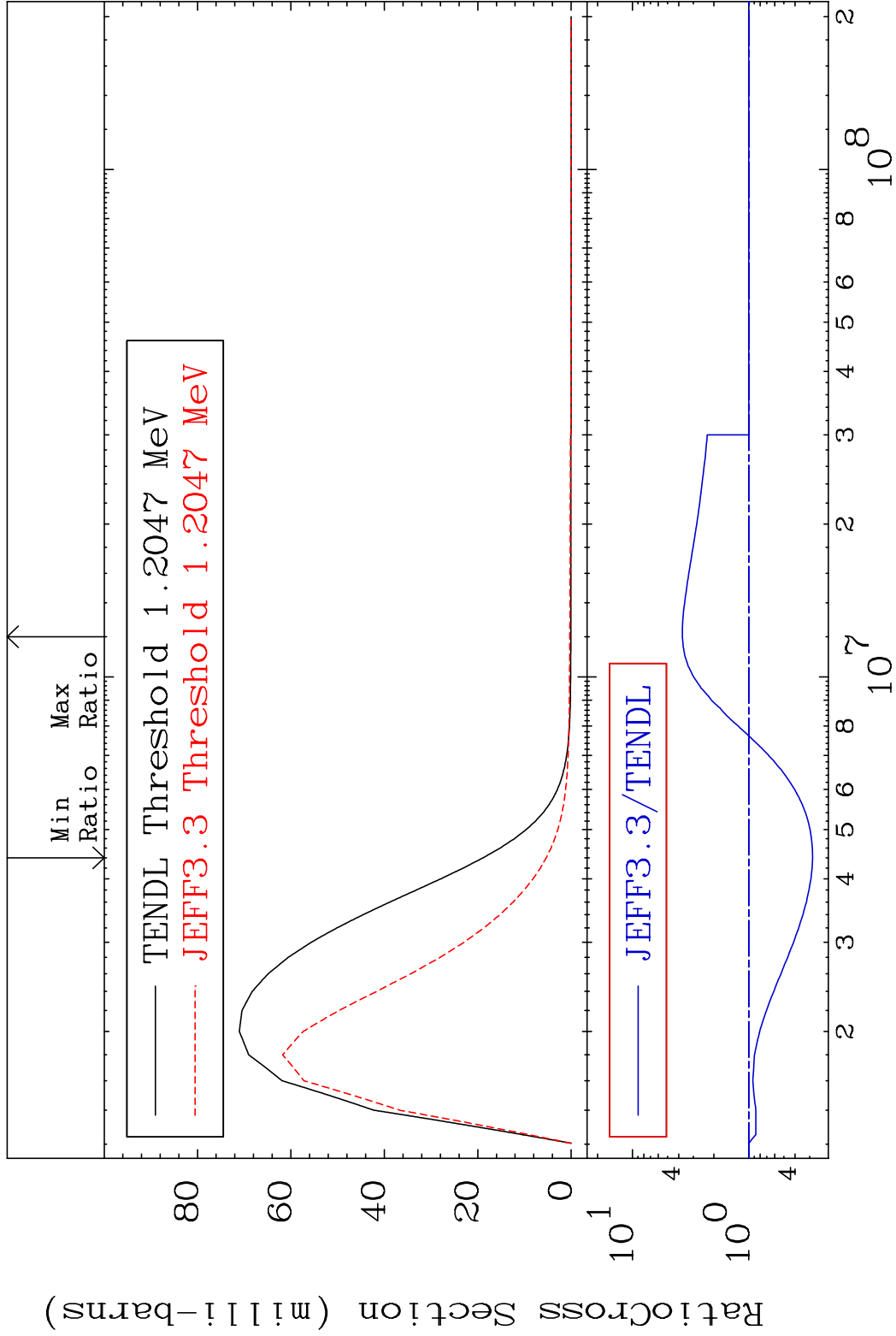


MAT 3531

MT= 67 (n, n') Level

35-Br-81

Cross Section -71.67 To 272.8 %

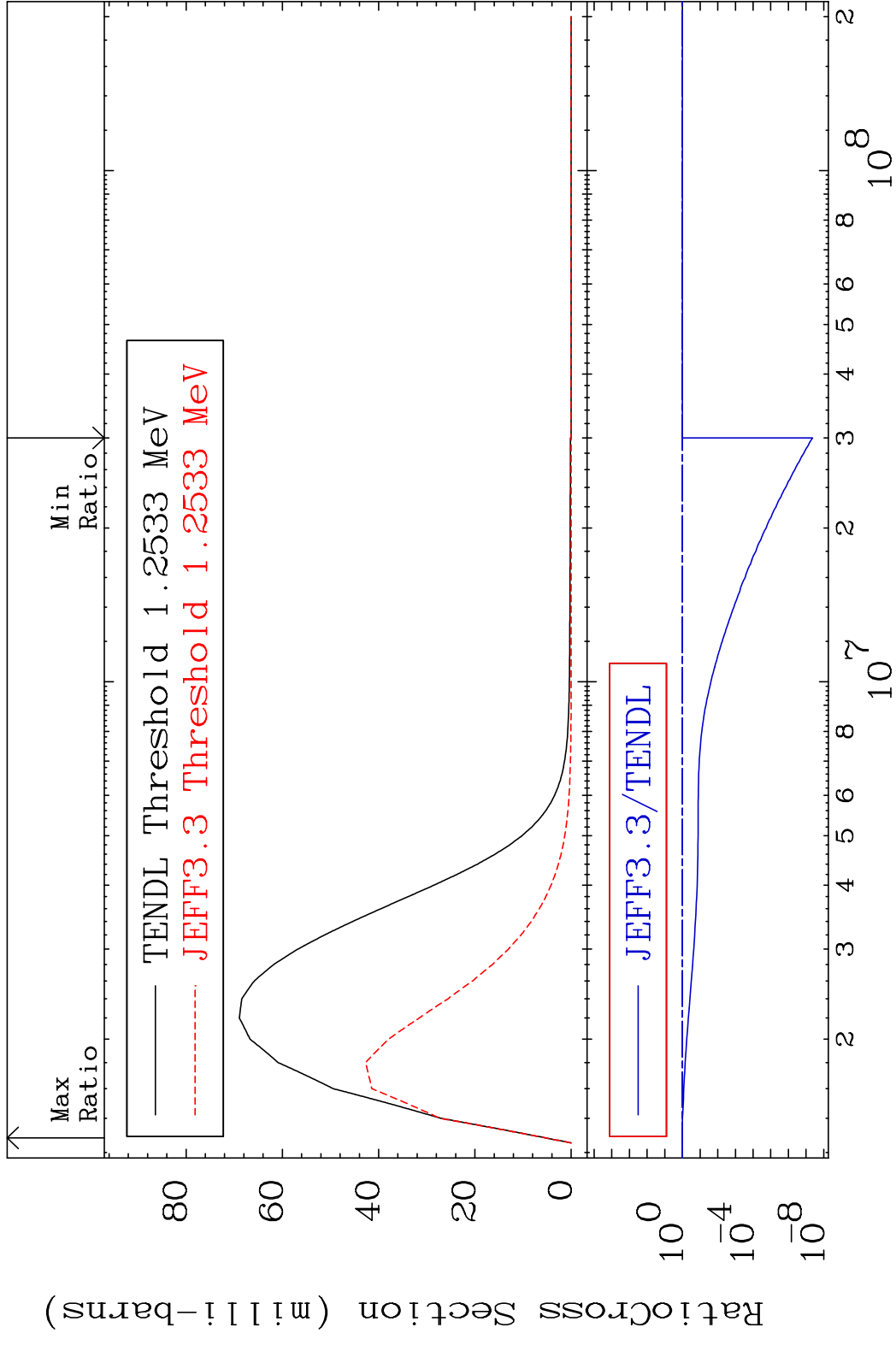


35

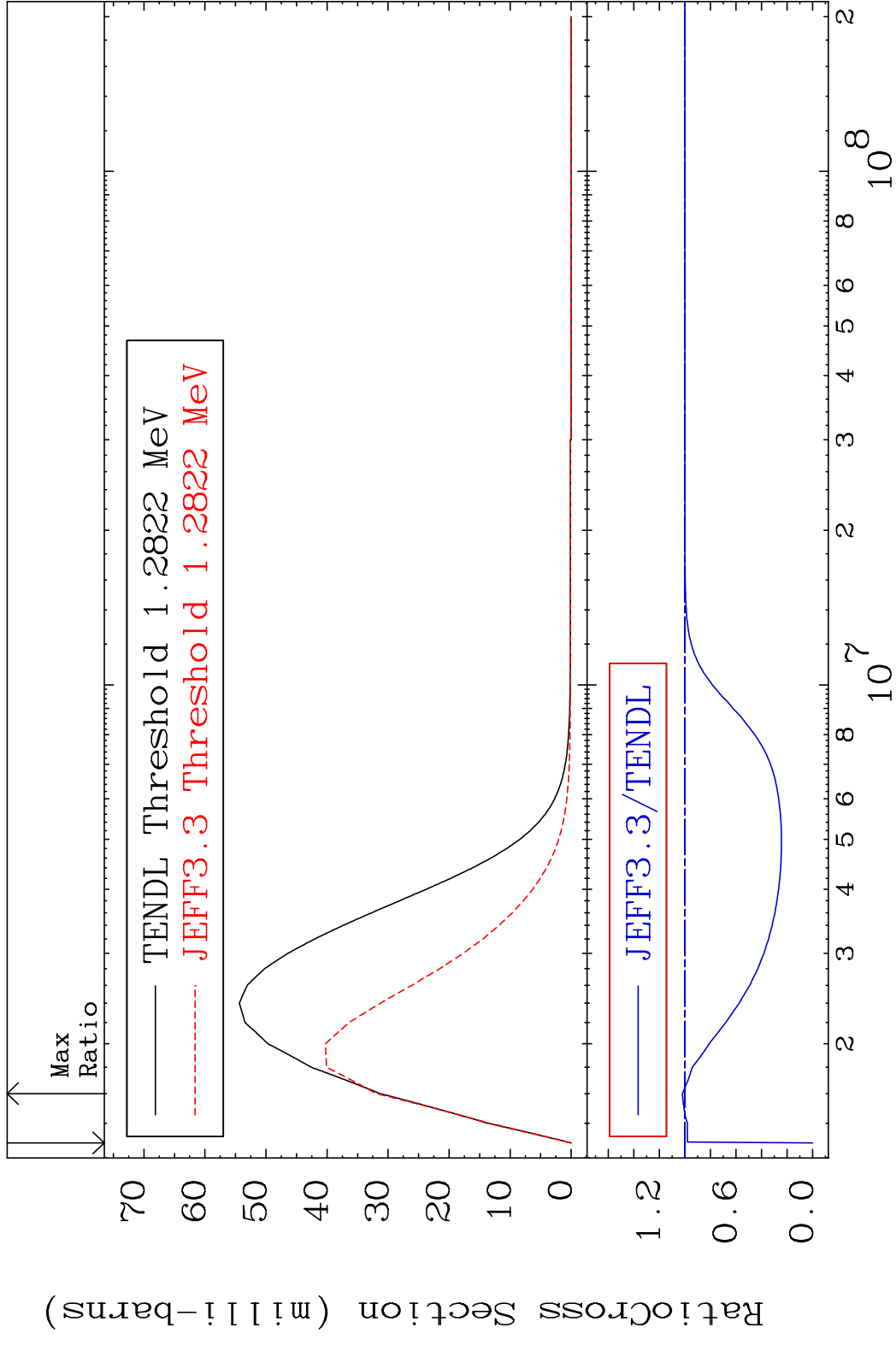
Incident Energy (eV)

35-Br-81

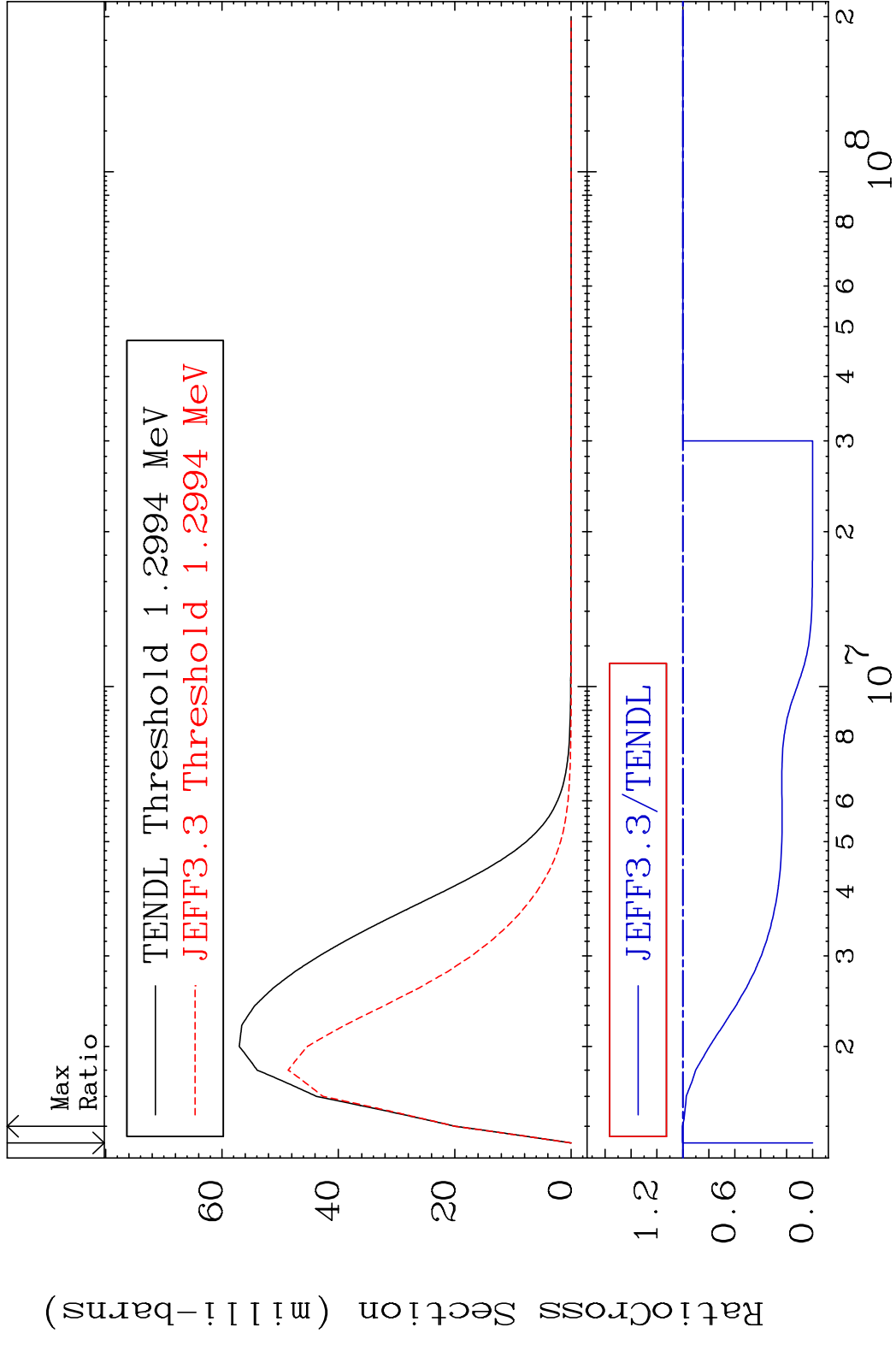
MAT 3531 MT= 68 (n, n') Level 35-Br-81
 Cross Section -100.0 To 0.742 %



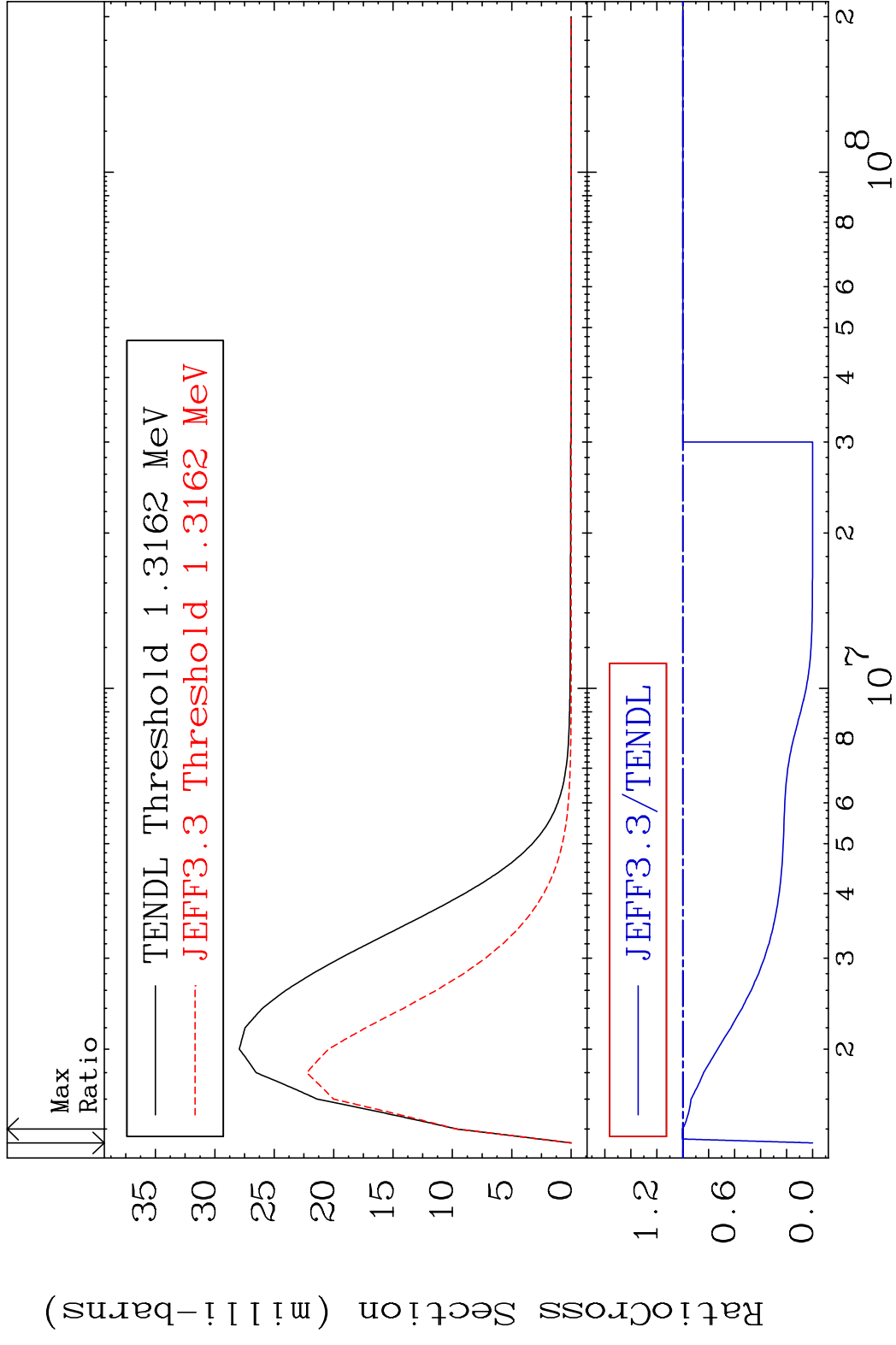
MAT 3531 MT= 69 (n,n') Level 35-Br-81
 Cross Section -100.0 To 1.976 %



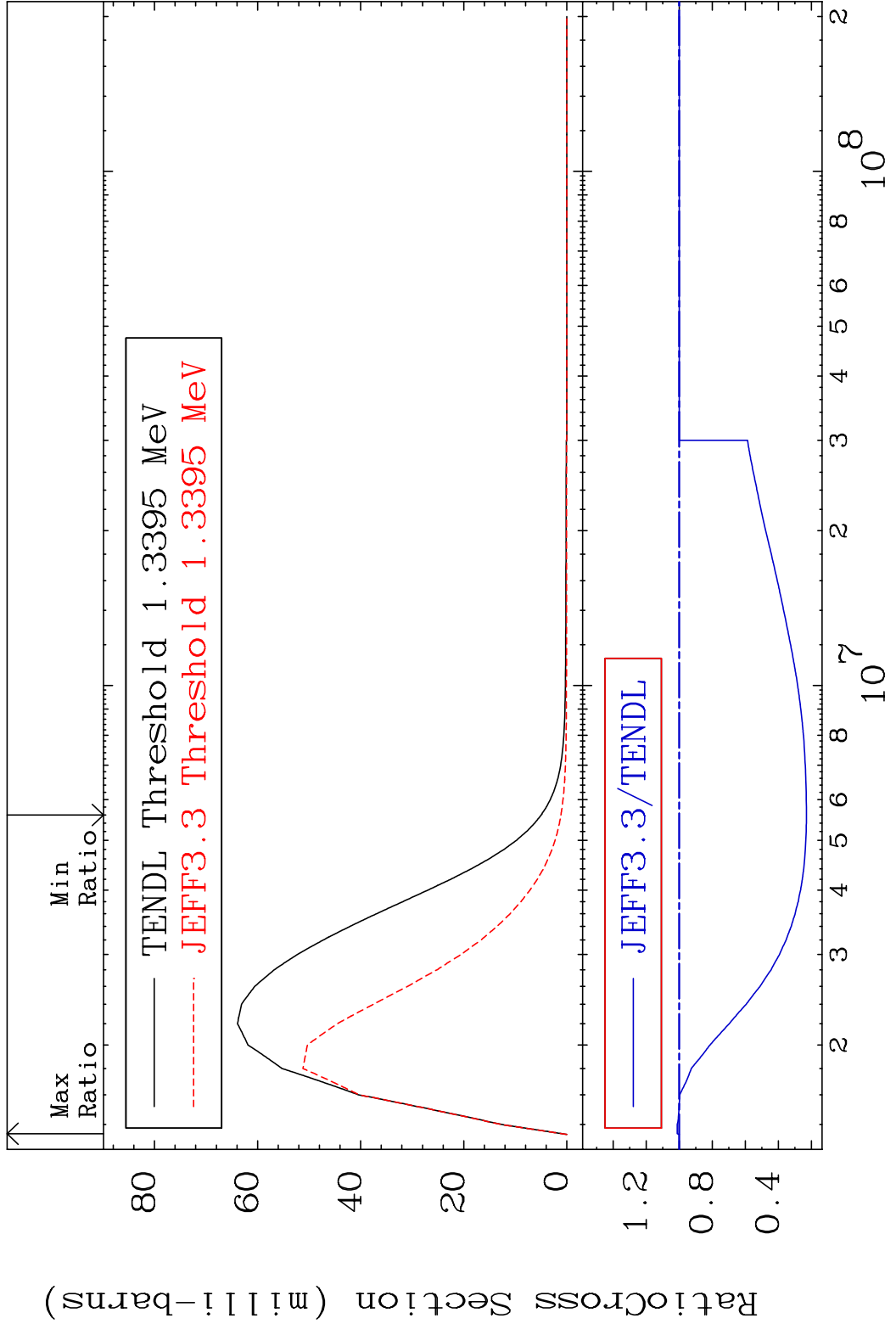
MAT 3531 MT= 70 (n, n') Level 35-Br-81
 Cross Section -100.0 To 0.398 %



MAT 3531 MT= 71 (n, n') Level 35-Br-81
 Cross Section -100.0 To 0.314 %

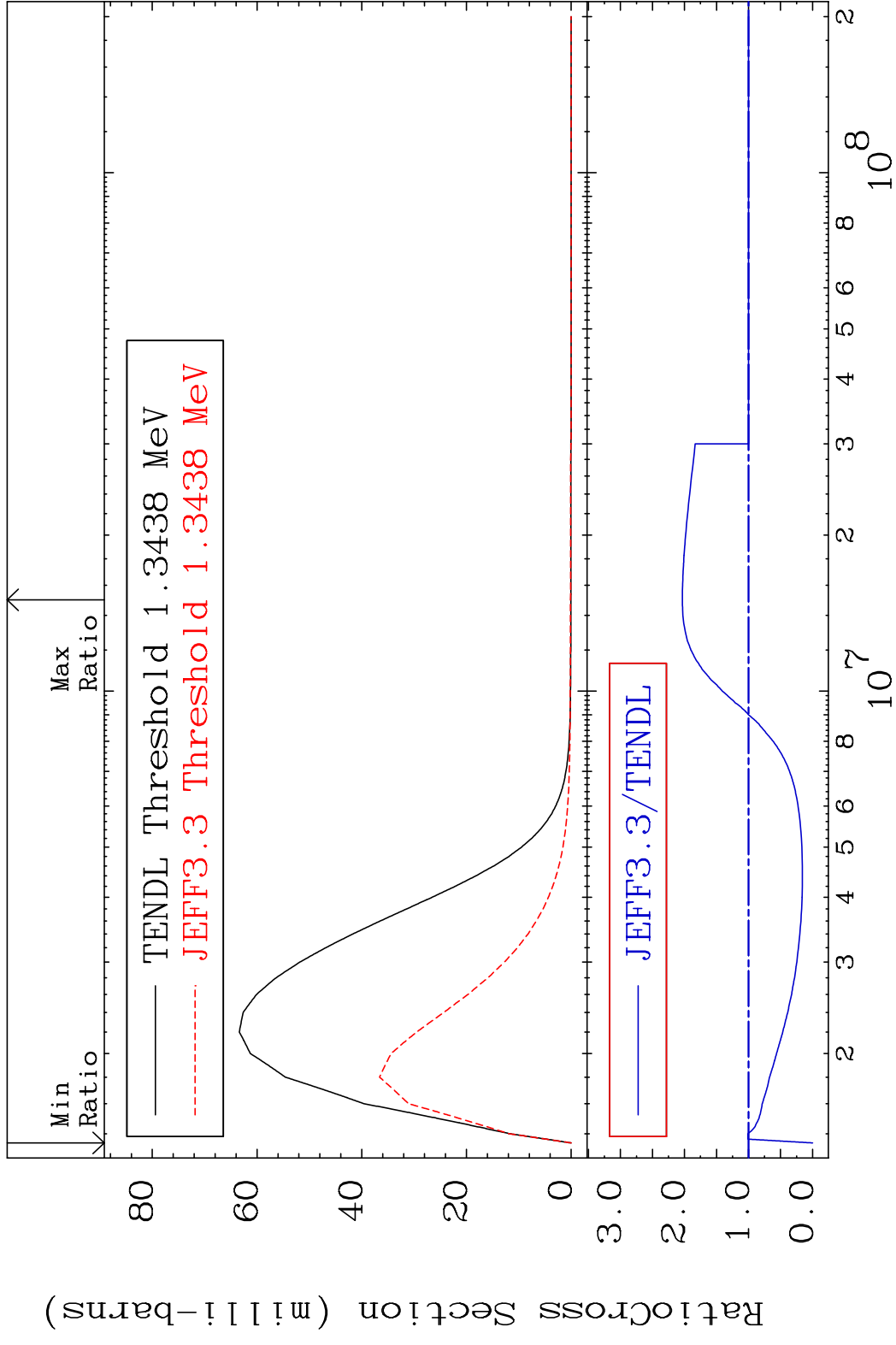


MAT 3531 MT= 72 (n, n') Level 35-Br-81
 Cross Section -77.01 To 1.190 %

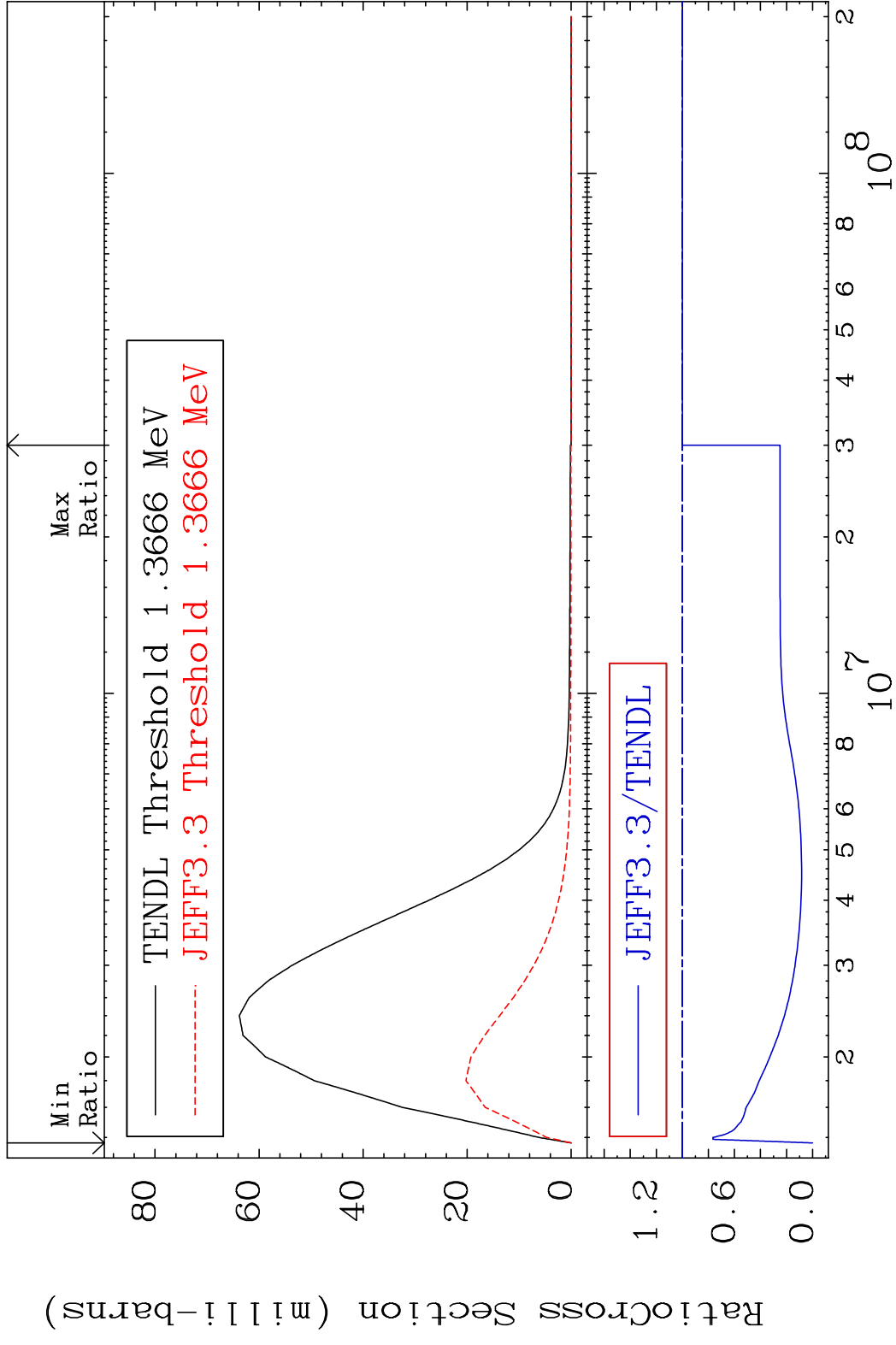


40 Incident Energy (eV) 35-Br-81

MAT 3531 MT= 73 (n, n') Level 35-Br-81
 Cross Section -100.0 To 103.3 %

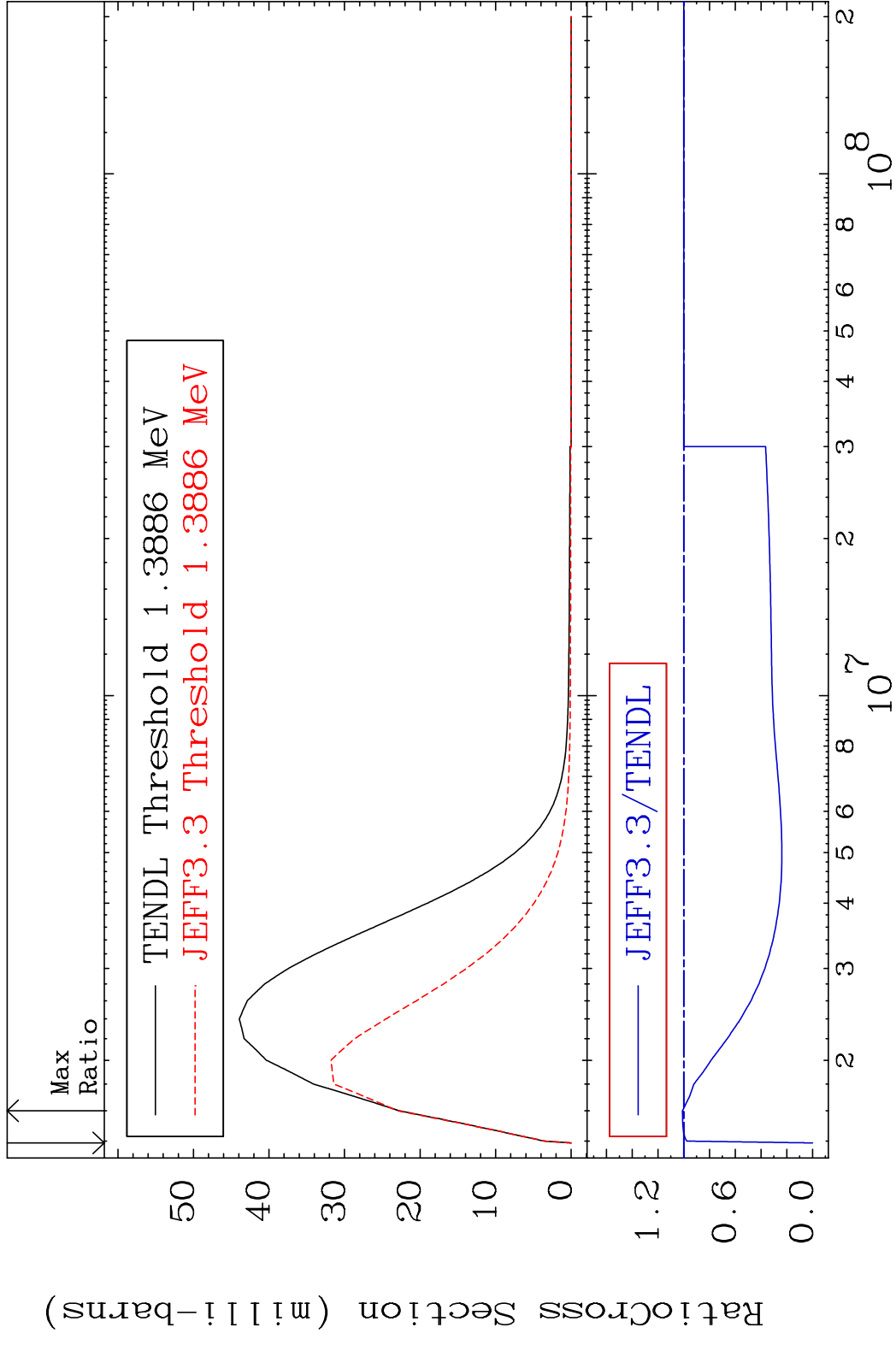


MAT 3531 MT= 74 (n, n') Level 35-Br-81
 Cross Section -100.0 To 0.000 %

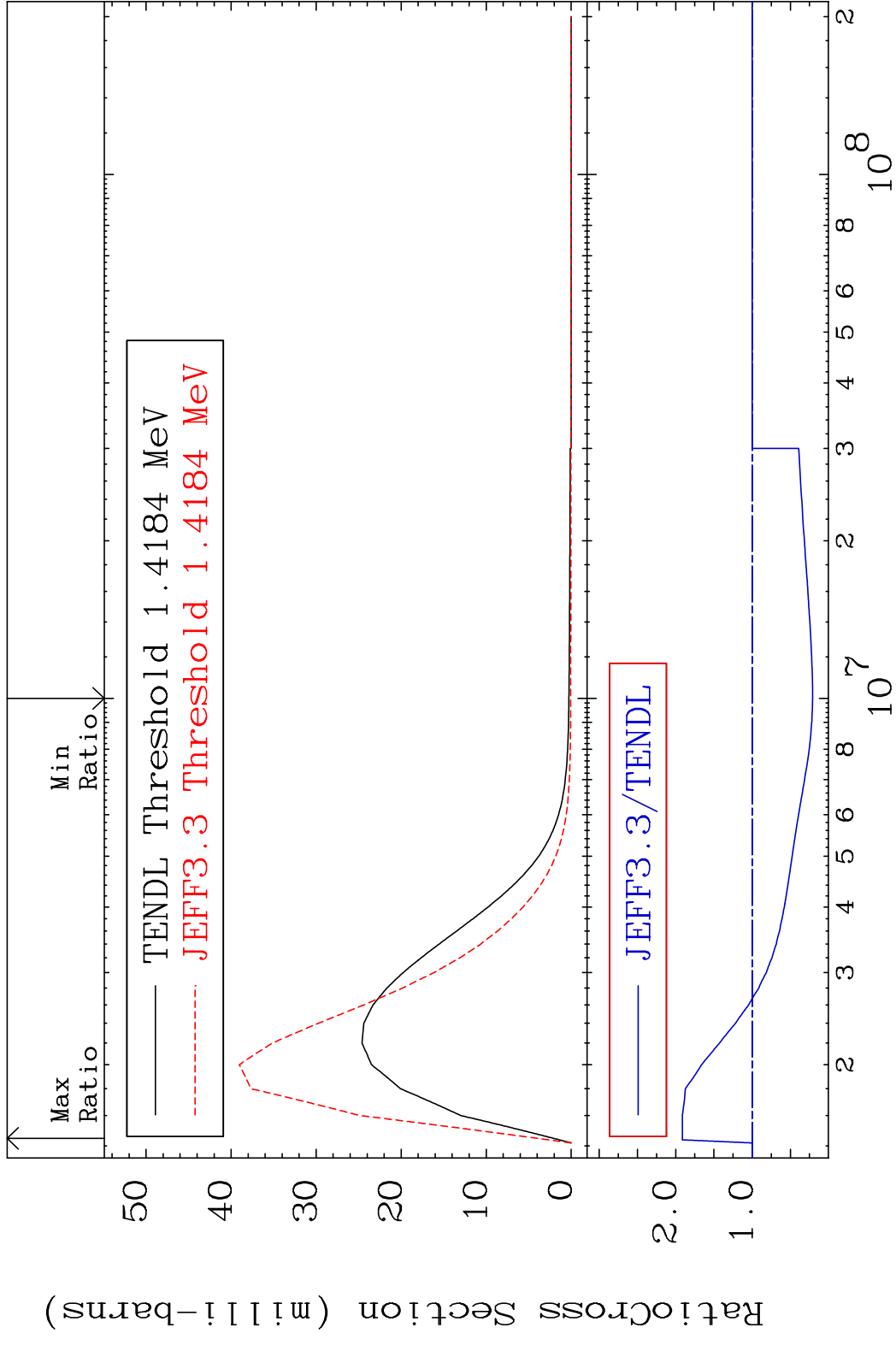


42 Incident Energy (eV) 35-Br-81

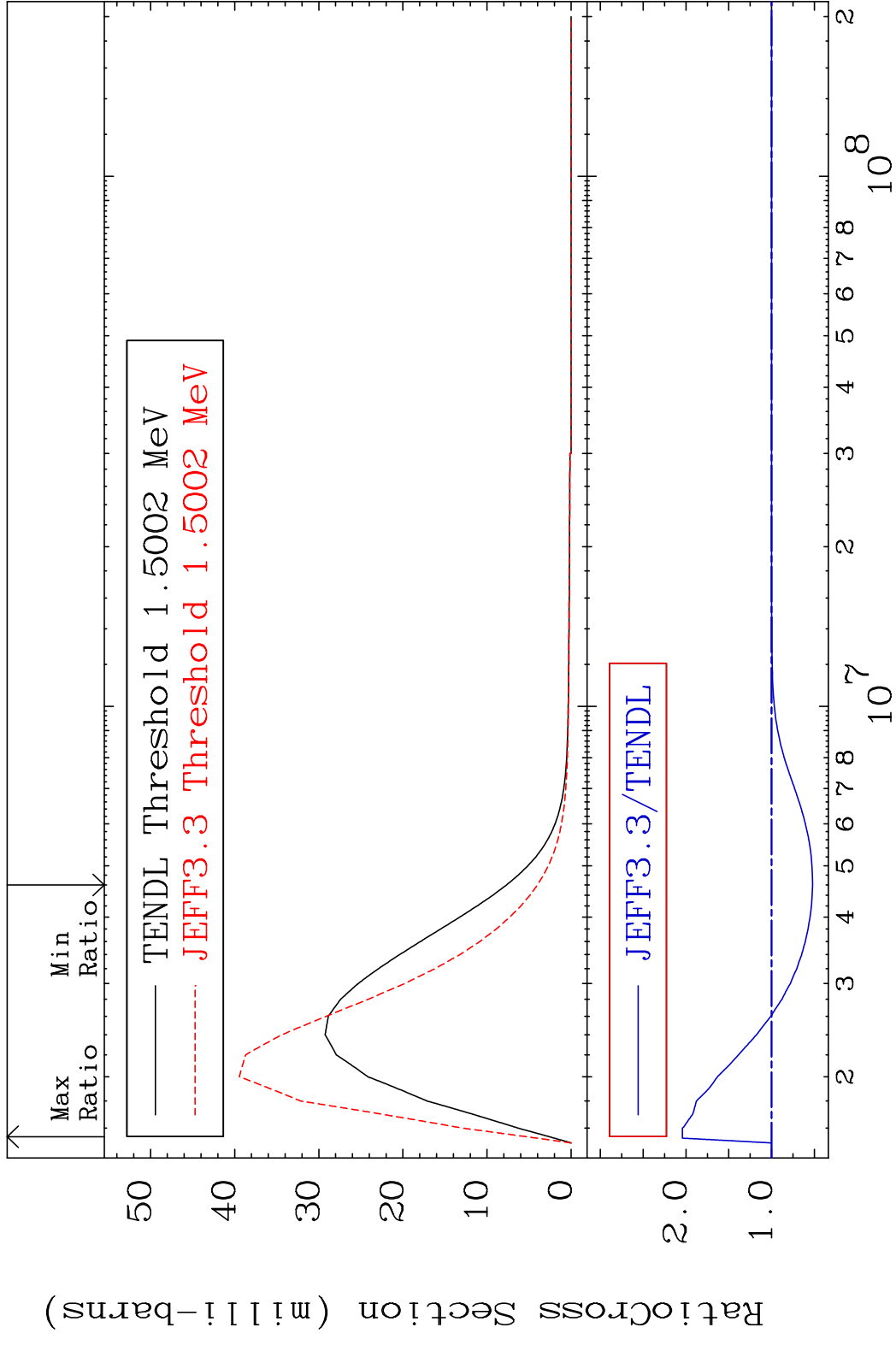
MAT 3531 MT= 75 (n, n') Level 35-Br-81
 Cross Section -100.0 To 1.078 %



MAT 3531 MT= 76 (n,n') Level 35-Br-81
 Cross Section -78.99 To 91.30 %



MAT 3531 MT= 77 (n,n') Level 35-Br-81
 Cross Section -47.80 To 104.2 %



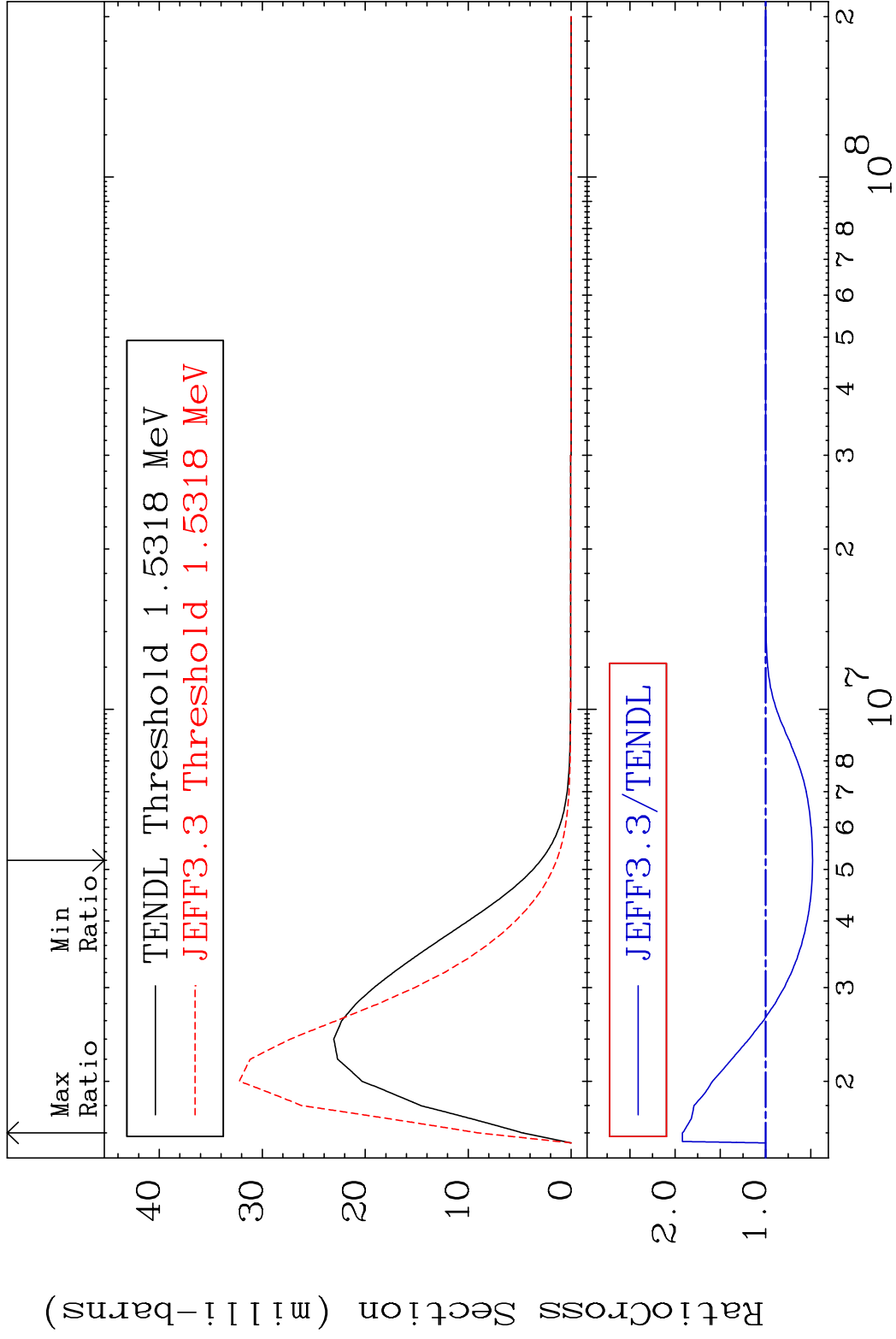
45 Incident Energy (eV) 35-Br-81

MAT 3531

MT= 78 (n,n') Level

35-Br-81

Cross Section -51.94 To 91.97 %

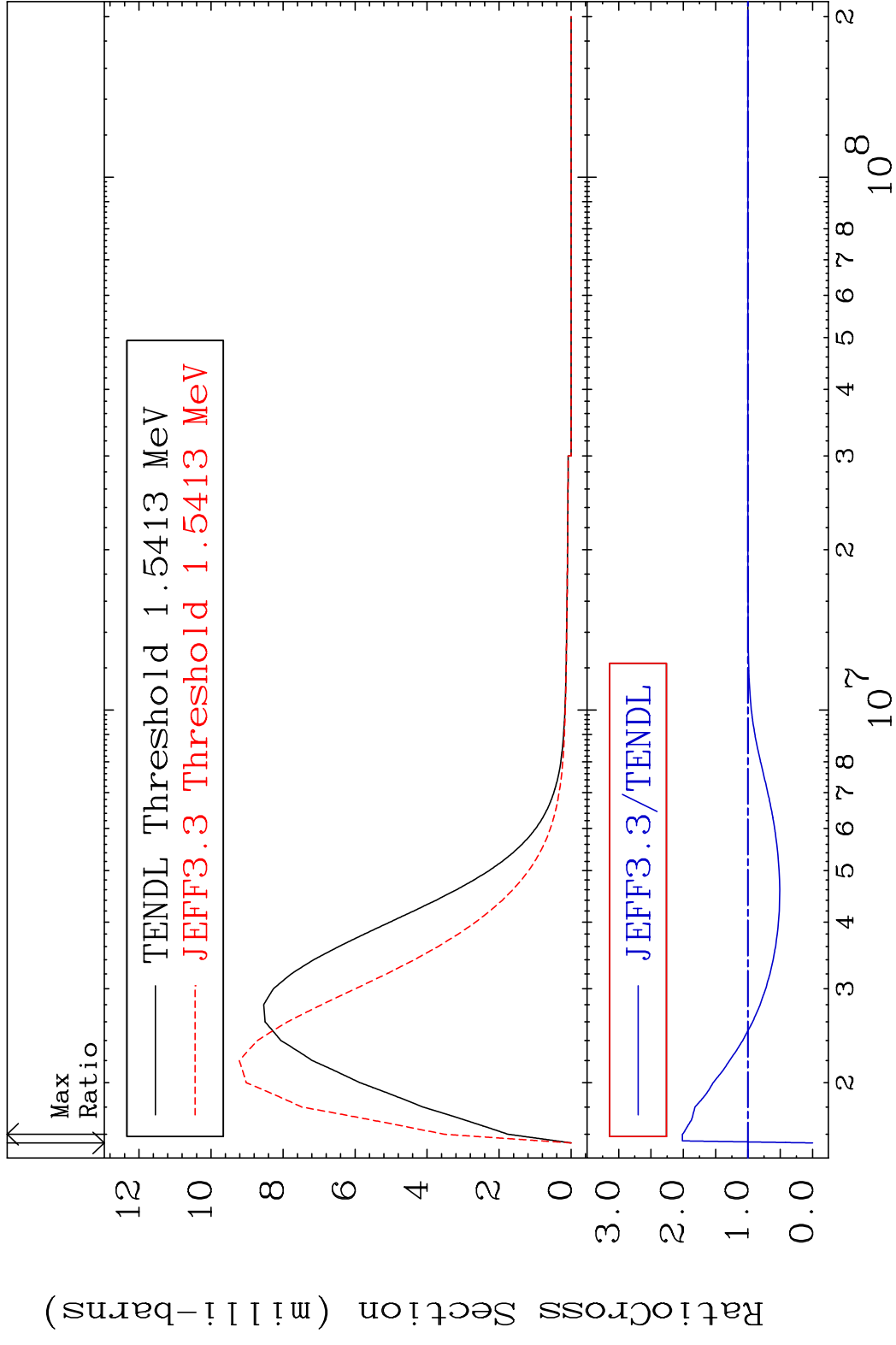


46

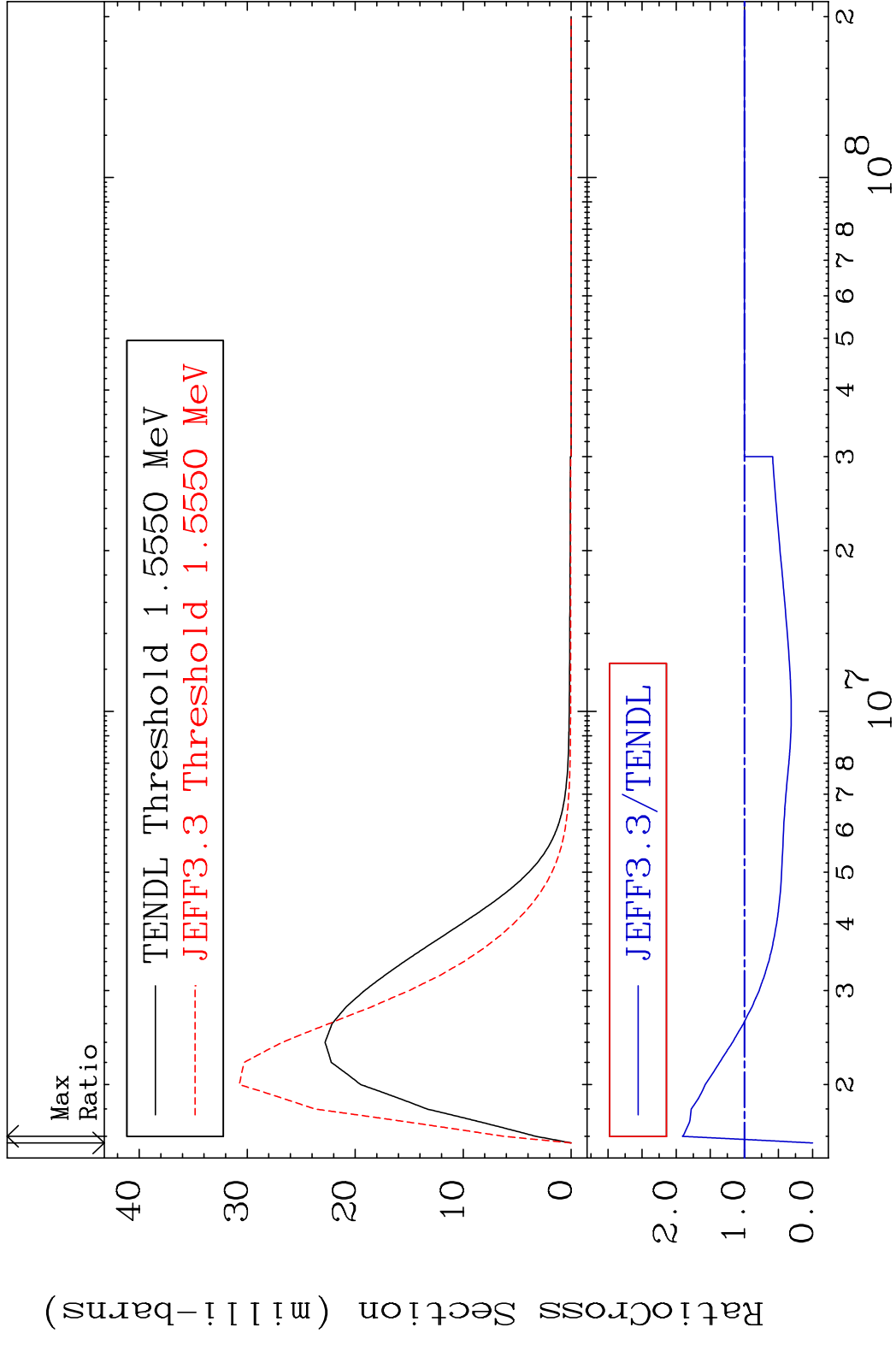
Incident Energy (eV)

35-Br-81

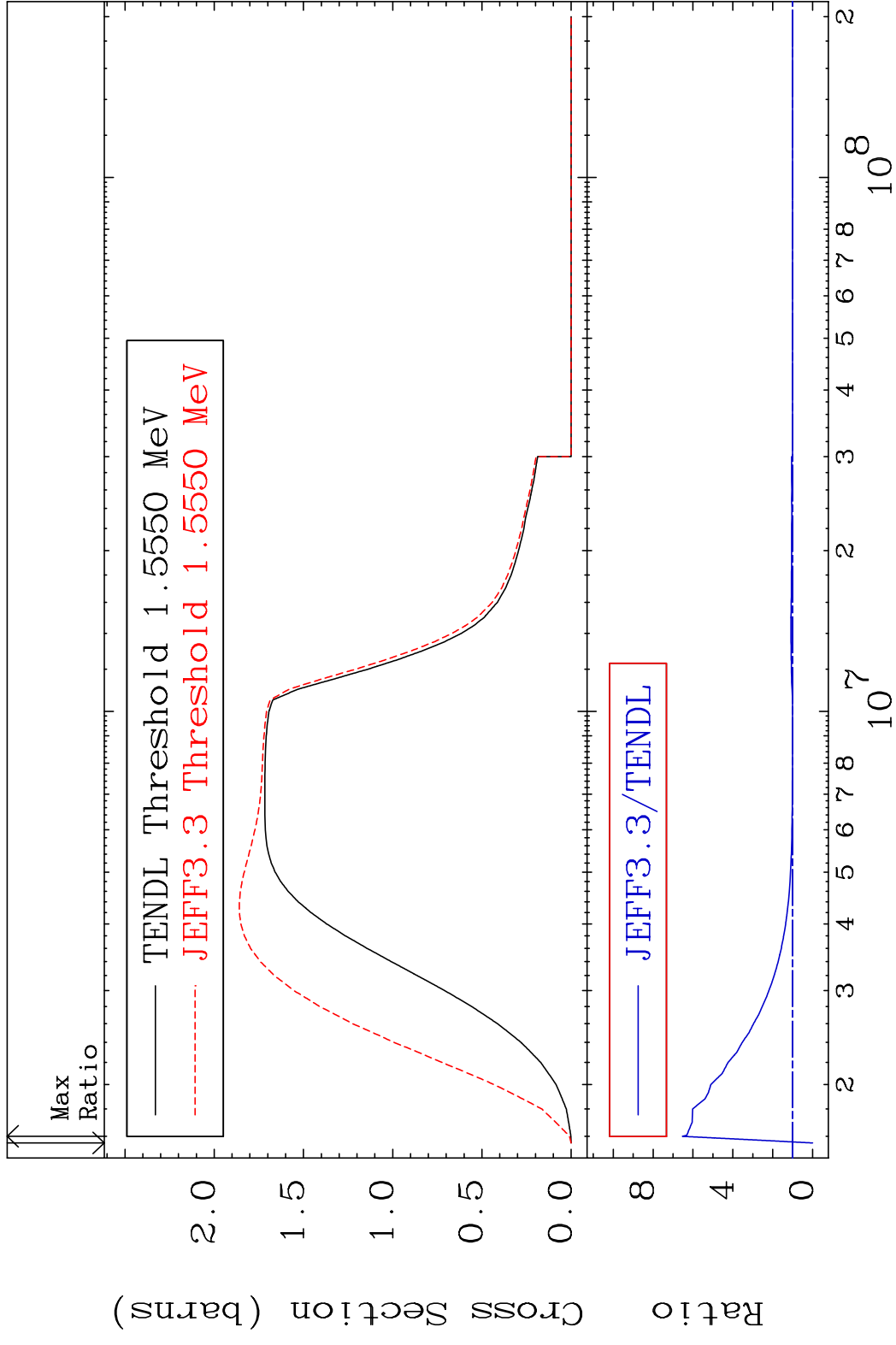
MAT 3531 MT= 79 (n,n') Level 35-Br-81
 Cross Section -100.0 To 101.5 %



MAT 3531 MT= 80 (n, n') Level 35-Br-81
 Cross Section -100.0 To 91.00 %



MAT 3531 (n, n') Continuum 35-Br-81
 Cross Section -100.0 To 553.2 %

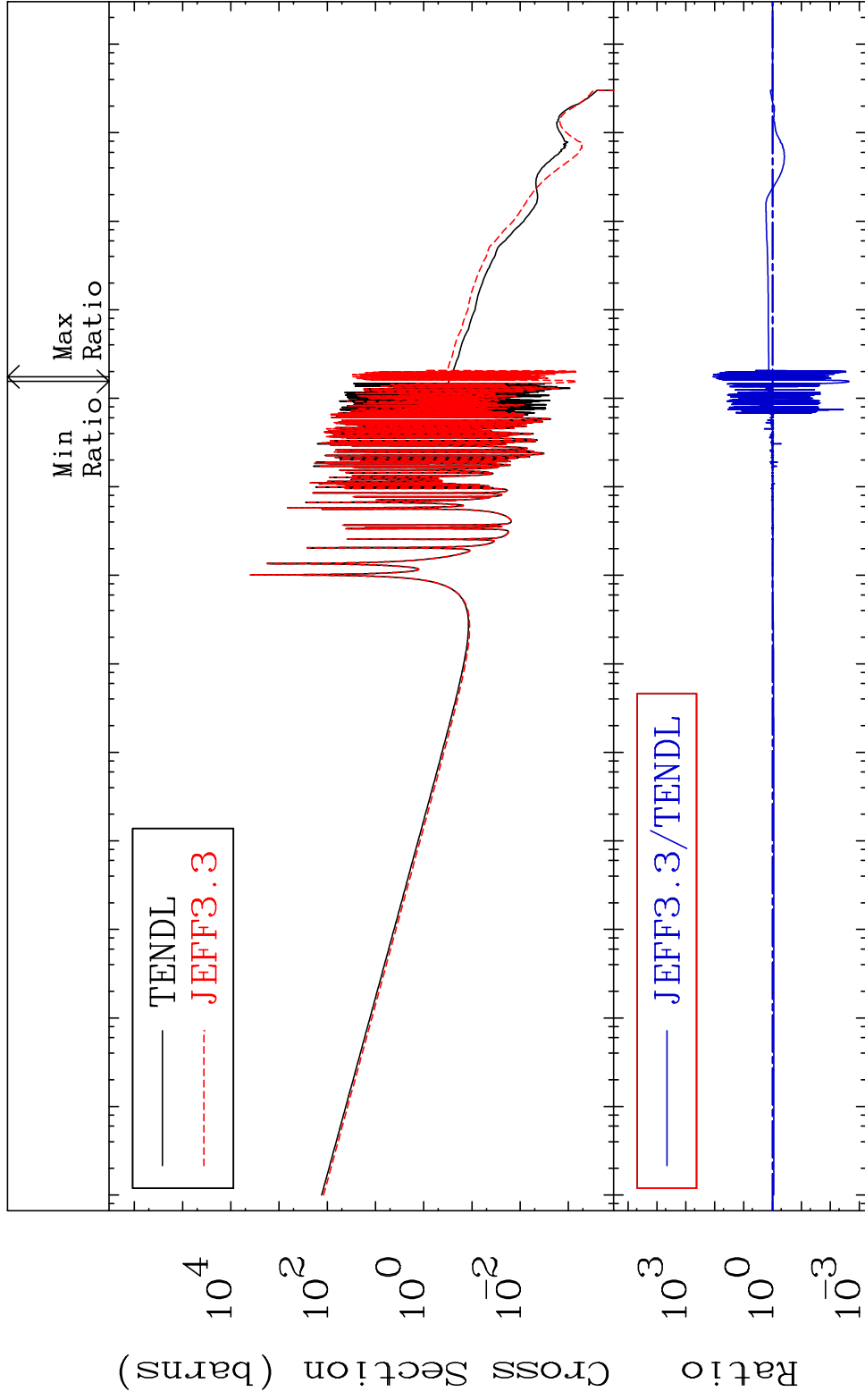


MAT 3531

(n, γ)

35-Br-81

Cross Section -99.78 To 9999. %



50

Incident Energy (eV)

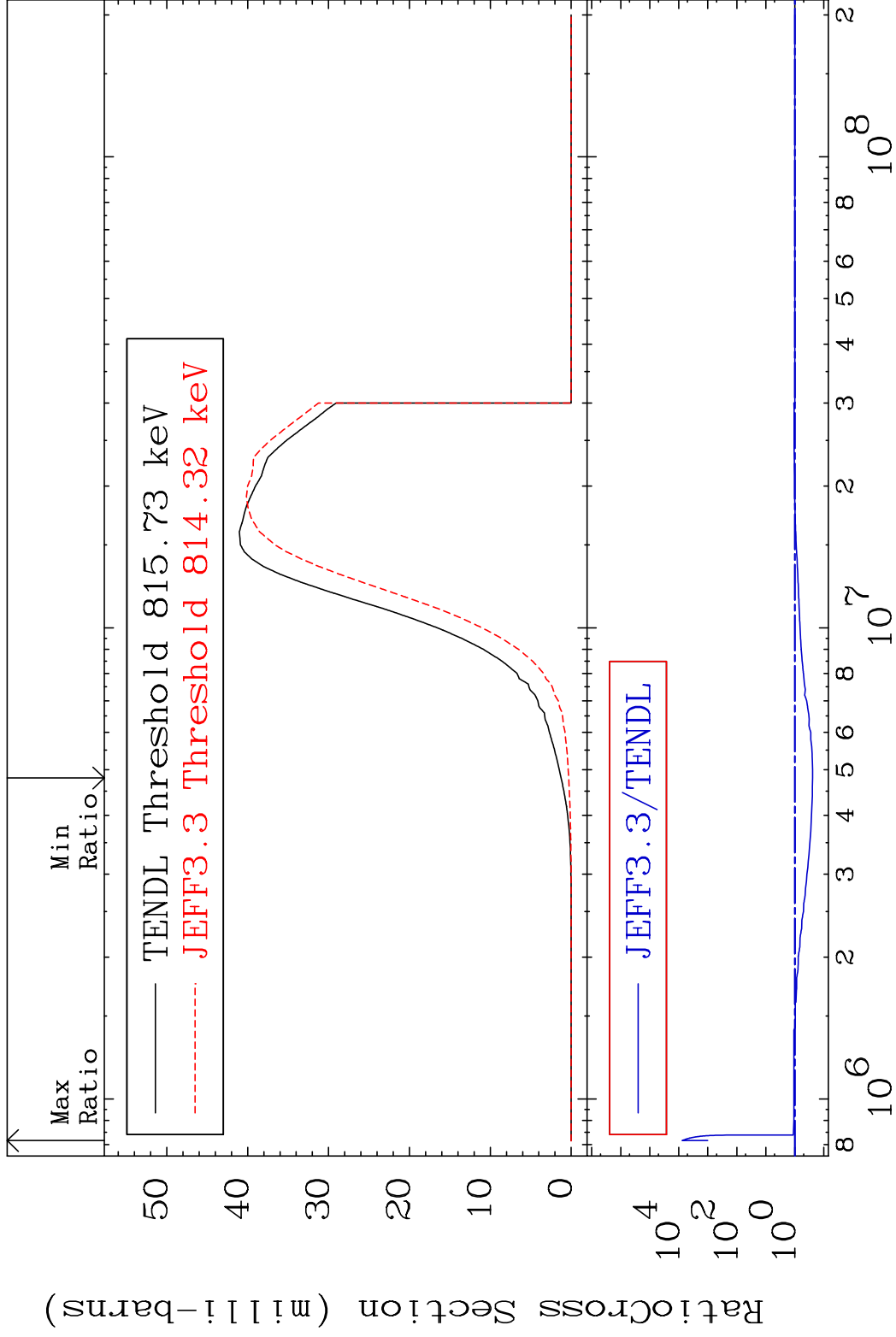
35-Br-81

MAT 3531

(n, p)

35-Br-81

Cross Section -75.43 To 9999. %



51

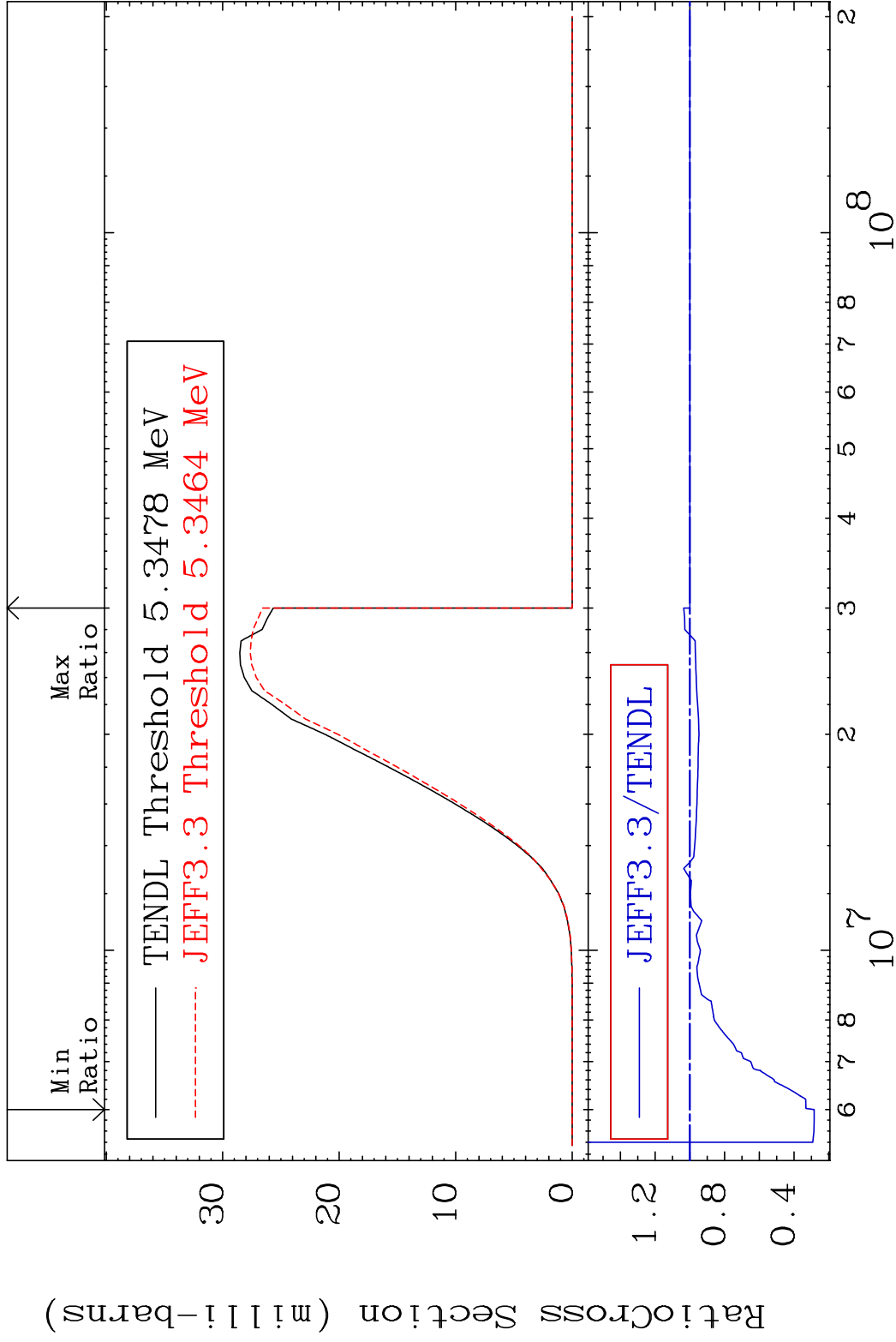
Incident Energy (eV)

35-Br-81

MAT 3531

(n, d) 35-Br-81

Cross Section -71.59 To 3.571 %



52

Incident Energy (eV)

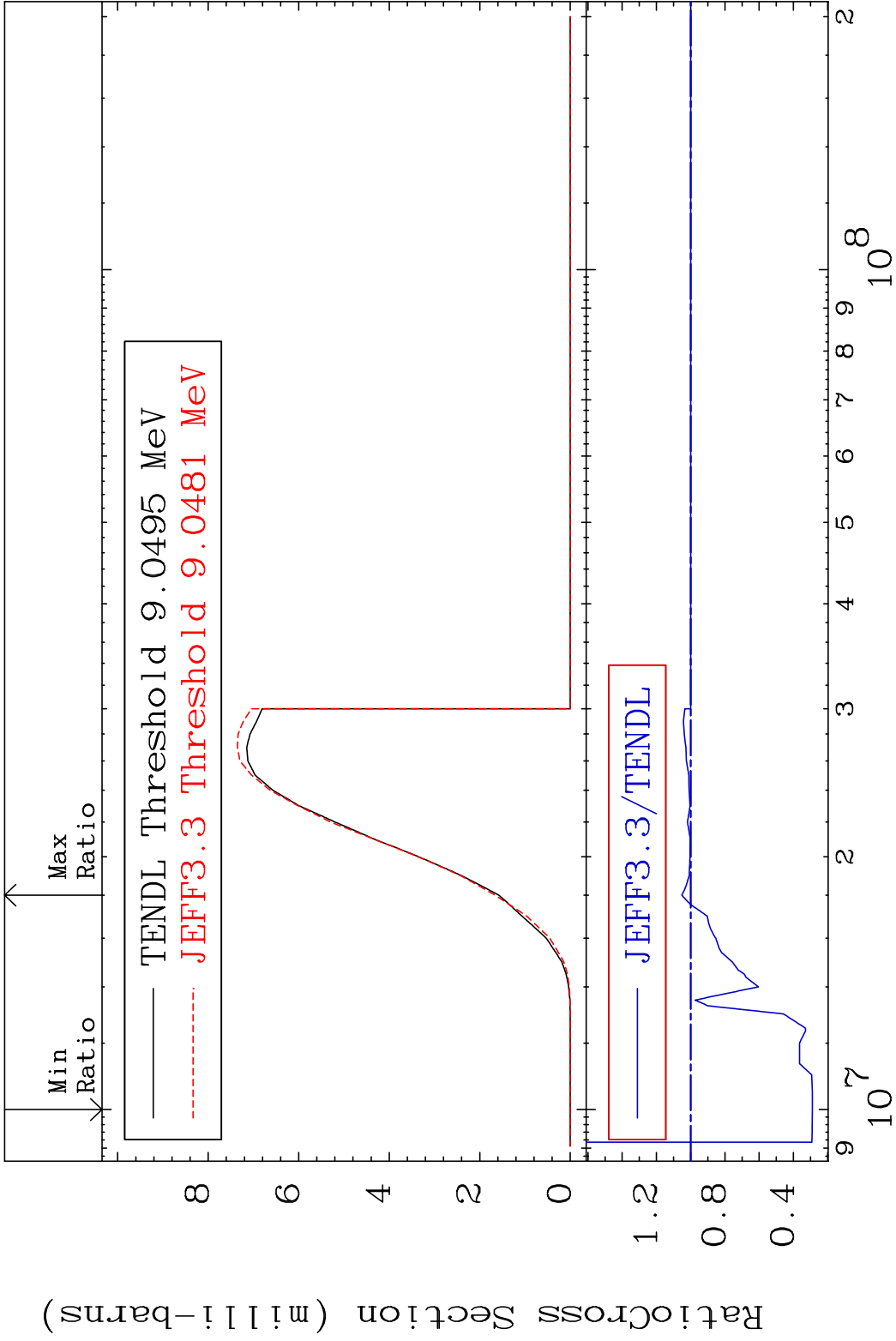
35-Br-81

MAT 3531

(n, t)

35-Br-81

Cross Section -71.04 To 5.223 %



53

Incident Energy (eV)

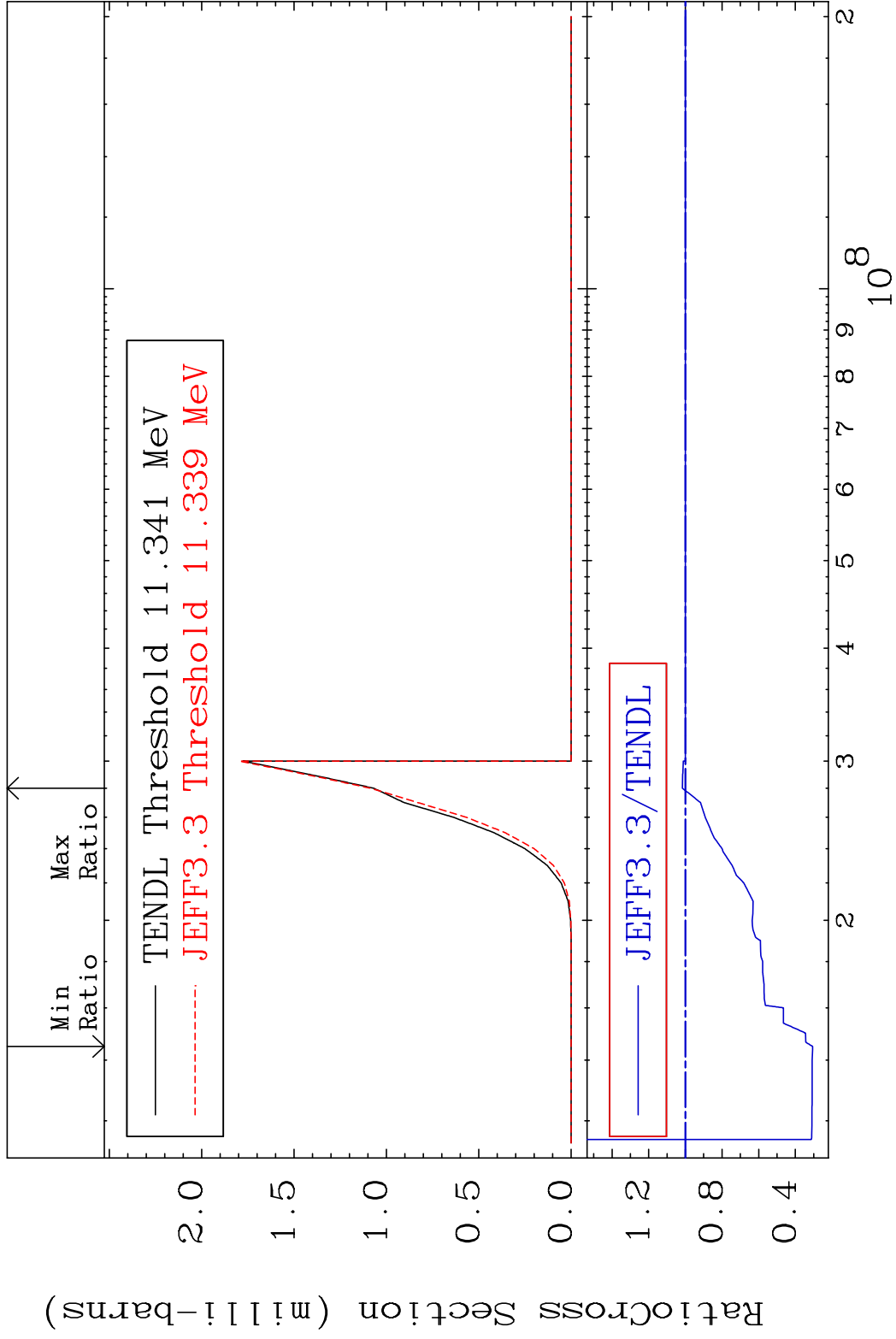
35-Br-81

MAT 3531

(n, He-3)

35-Br-81

Cross Section -69.39 To 1.643 %



54

Incident Energy (eV)

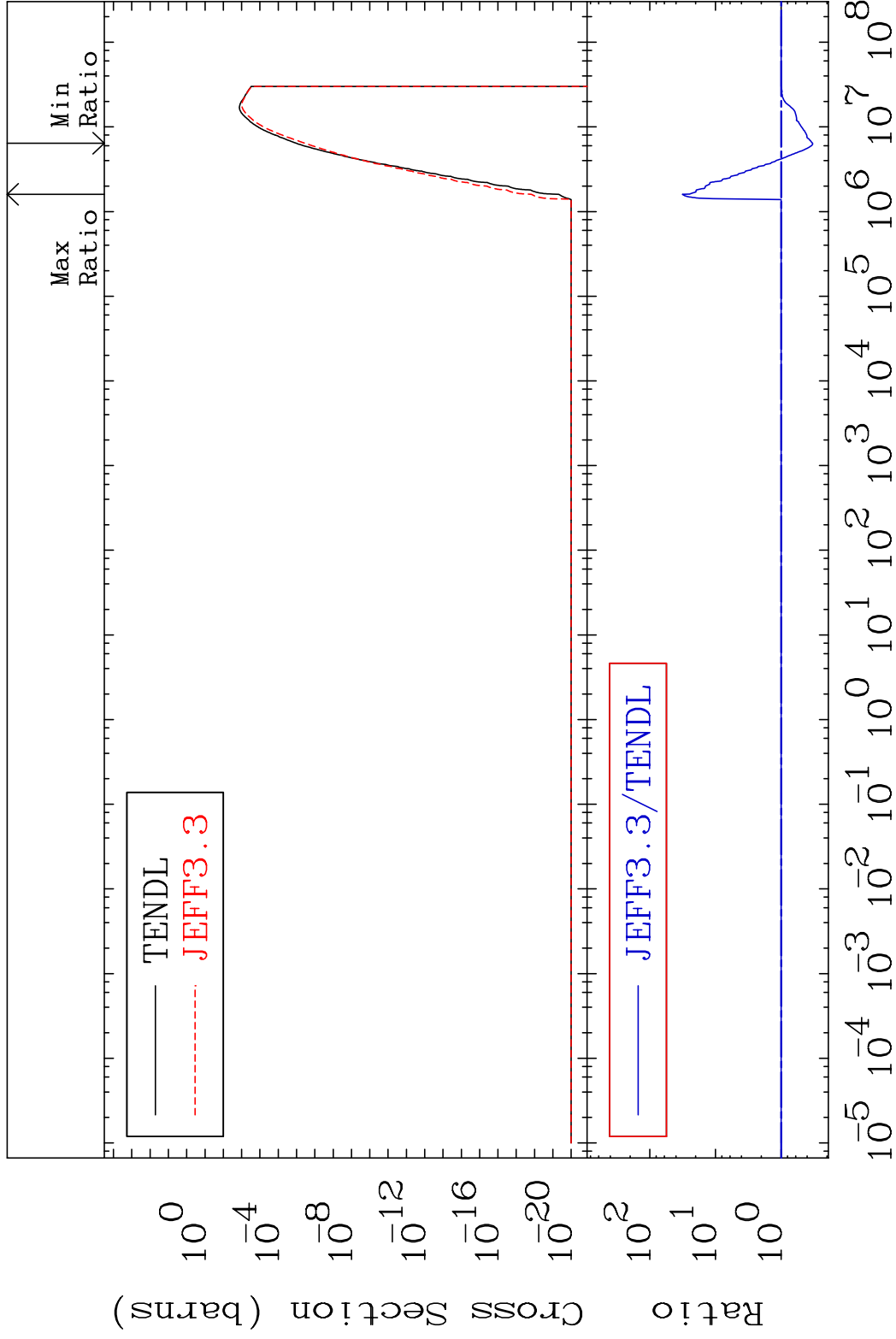
35-Br-81

MAT 3531

(n, α)

35-Br-81

Cross Section -66.87 To 3093. %



55

Incident Energy (eV)

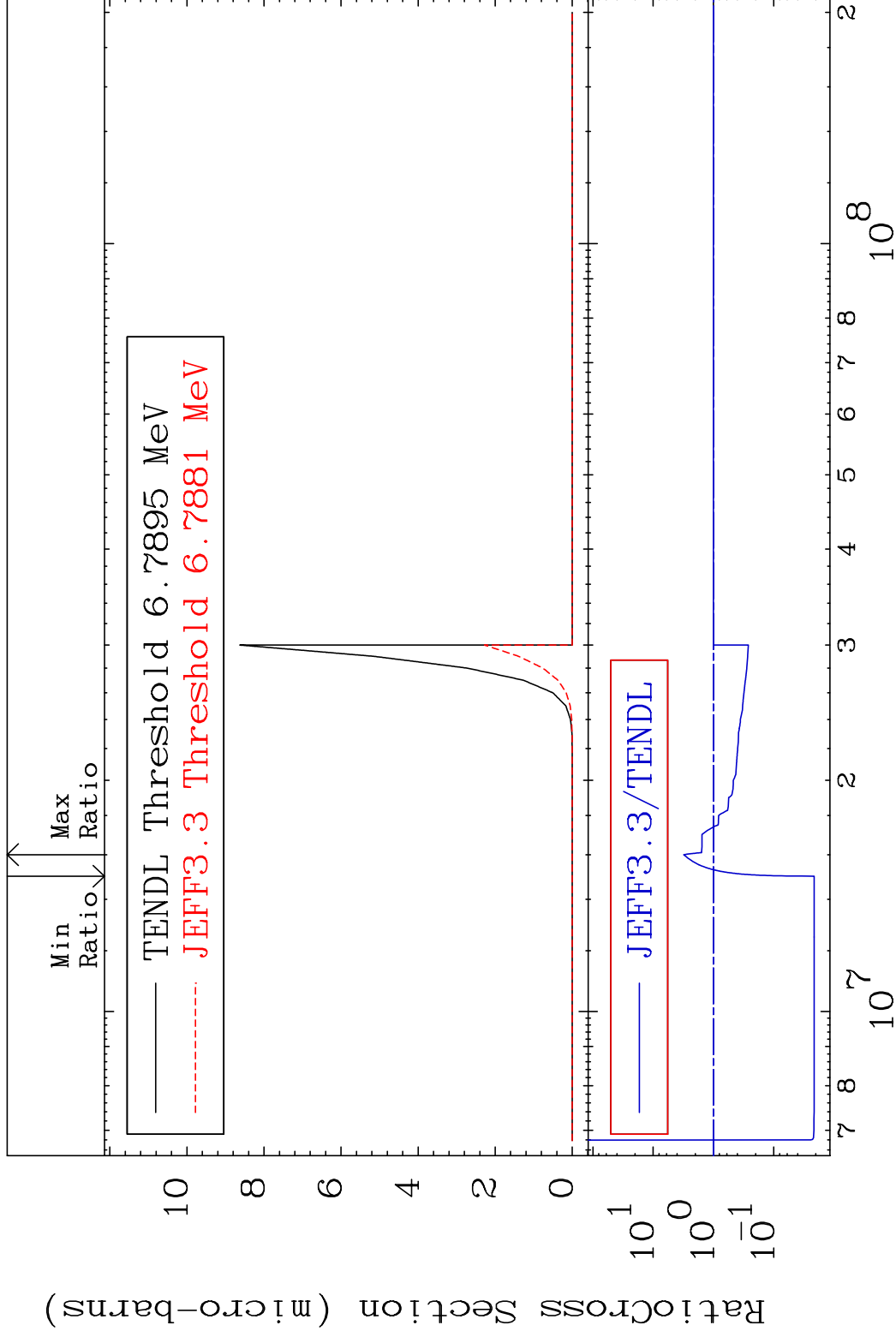
35-Br-81

MAT 3531

(n, 2α)

35-Br-81

Cross Section -97.86 To 212.0 %



56

Incident Energy (eV)

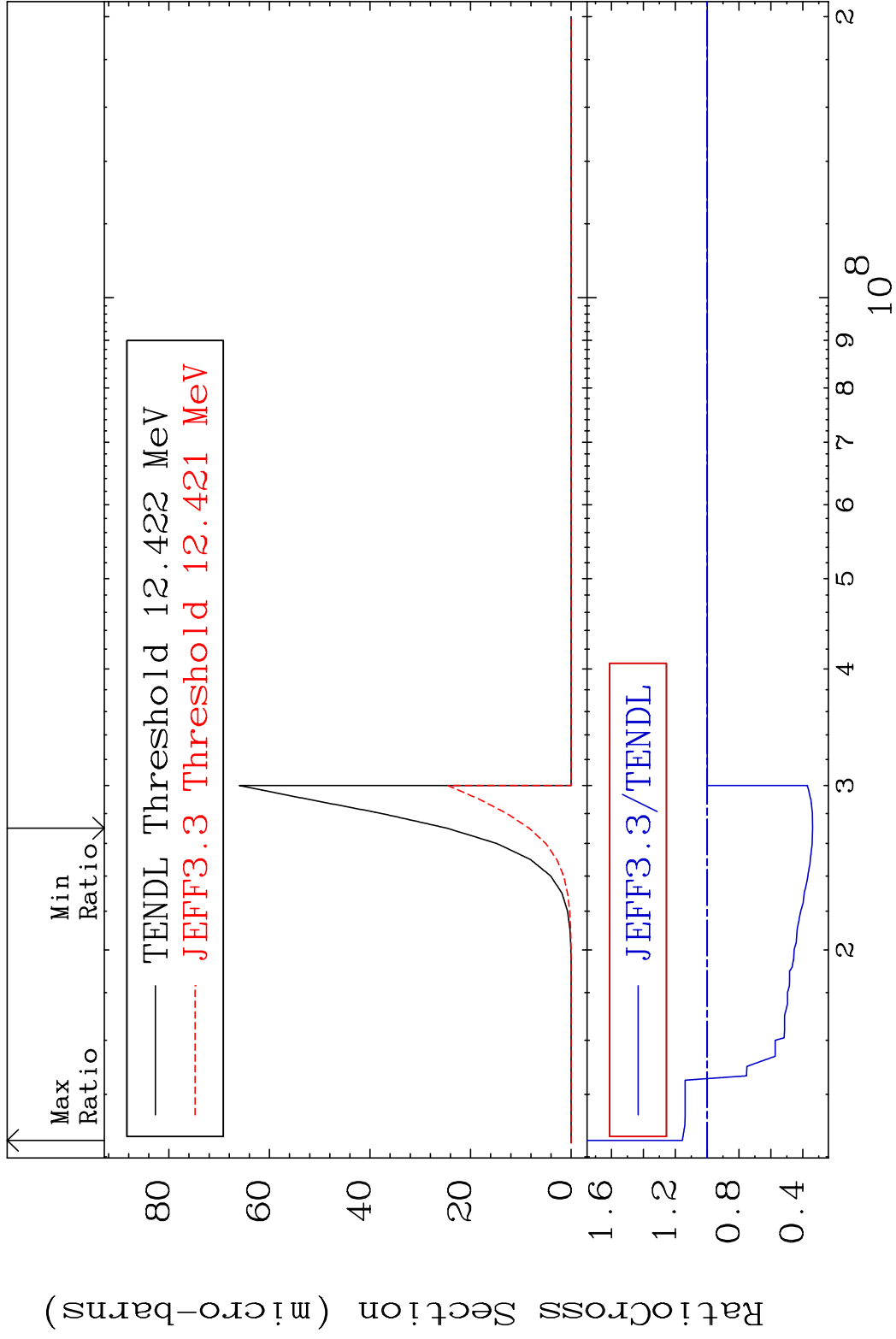
35-Br-81

MAT 3531

(n,2p)

35-Br-81

Cross Section -66.13 To 15.55 %



57

Incident Energy (eV)

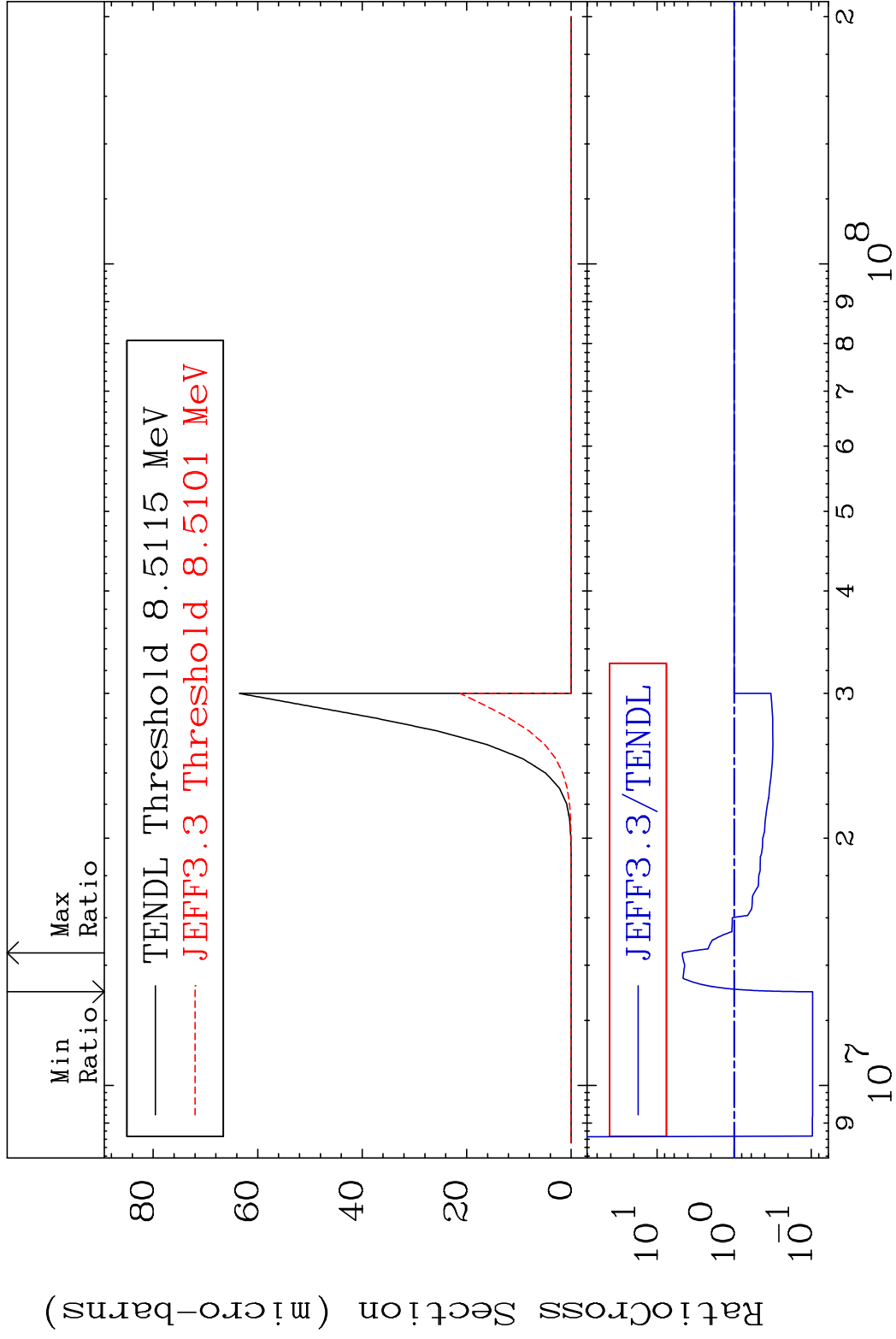
35-Br-81

MAT 3531

(n,p) α

35-Br-81

Cross Section -90.39 To 370.3 %



58

Incident Energy (eV)

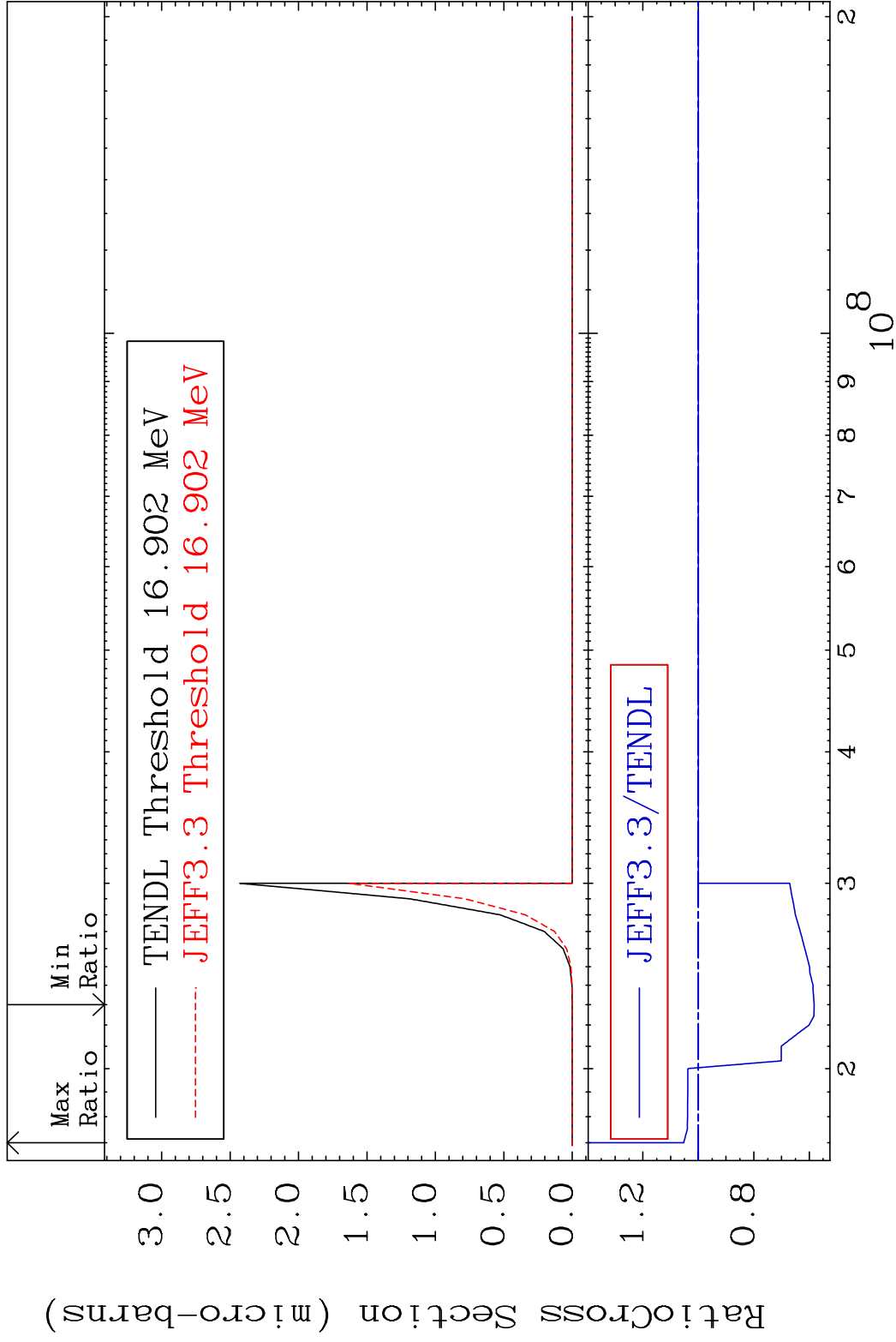
35-Br-81

MAT 3531

(n,p) d

35-Br-81

Cross Section -41.74 To 5.291 %



59

Incident Energy (eV)

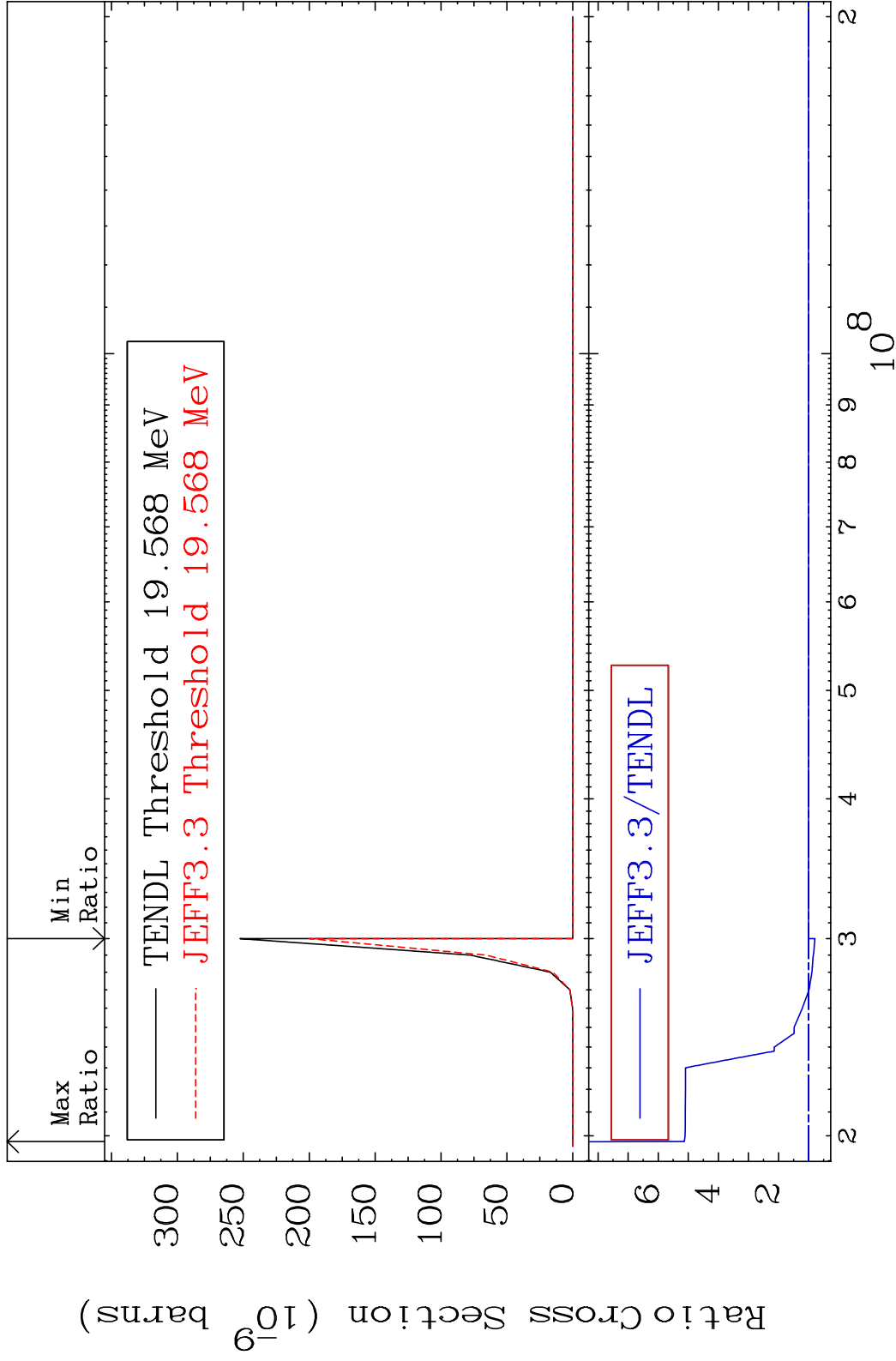
35-Br-81

MAT 3531

(n,p) t

35-Br-81

Cross Section -20.86 To 413.2 %



60

Incident Energy (eV)

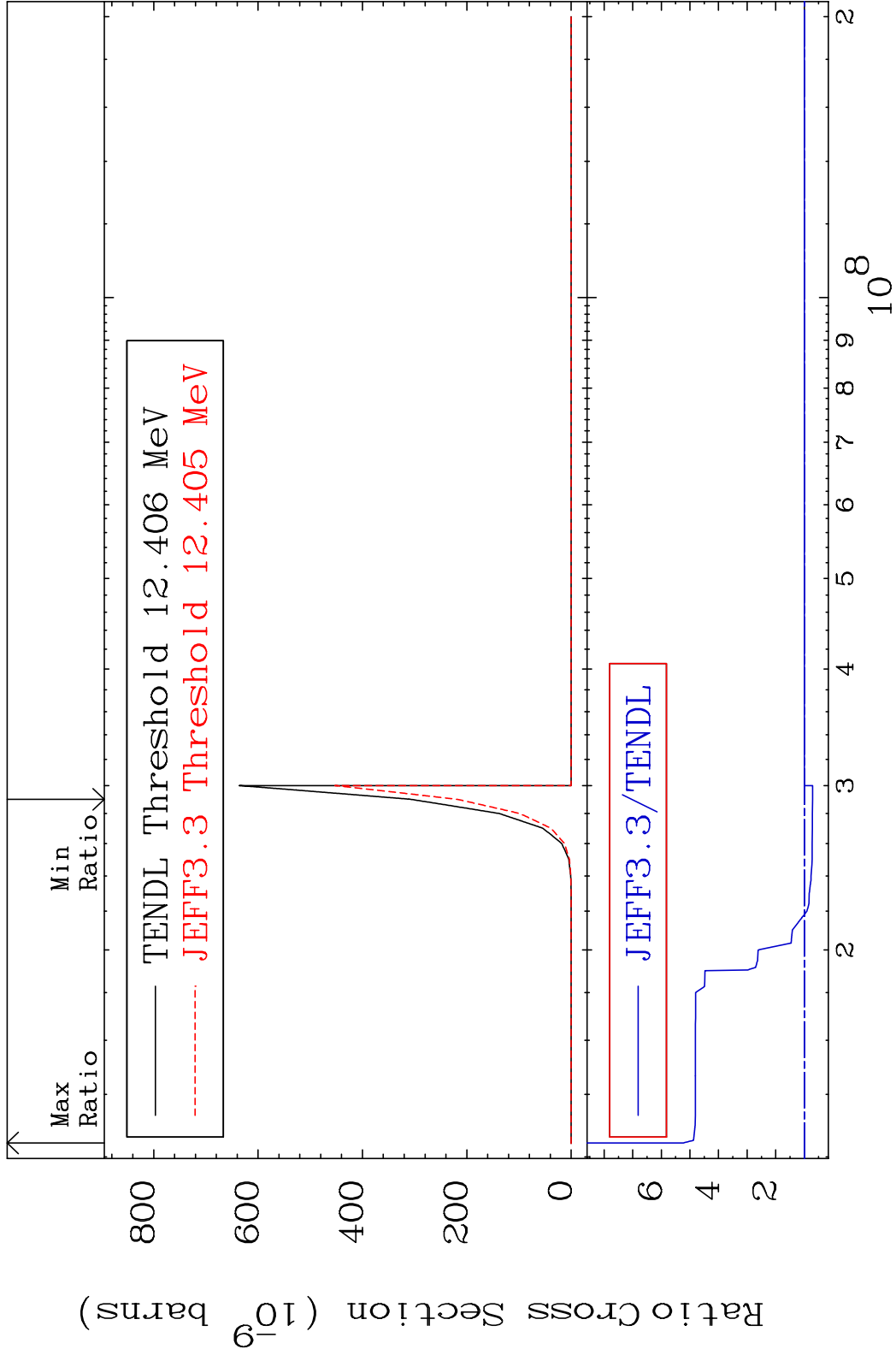
35-Br-81

MAT 3531

(n,d) α

35-Br-81

Cross Section -28.91 To 426.6 %



61

Incident Energy (eV)

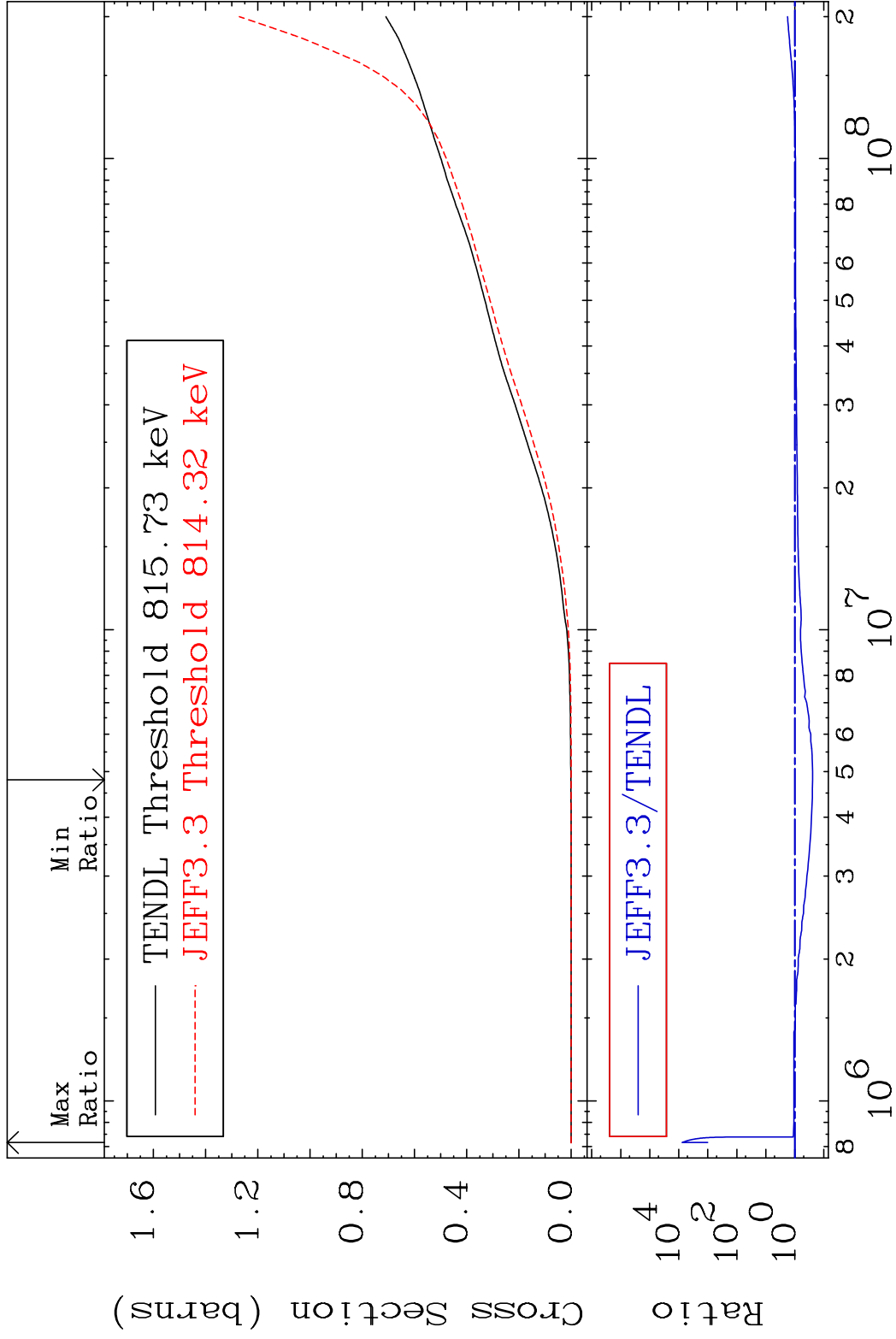
35-Br-81

MAT 3531

Hydrogen Production

35-Br-81

Cross Section -75.43 To 9999. %

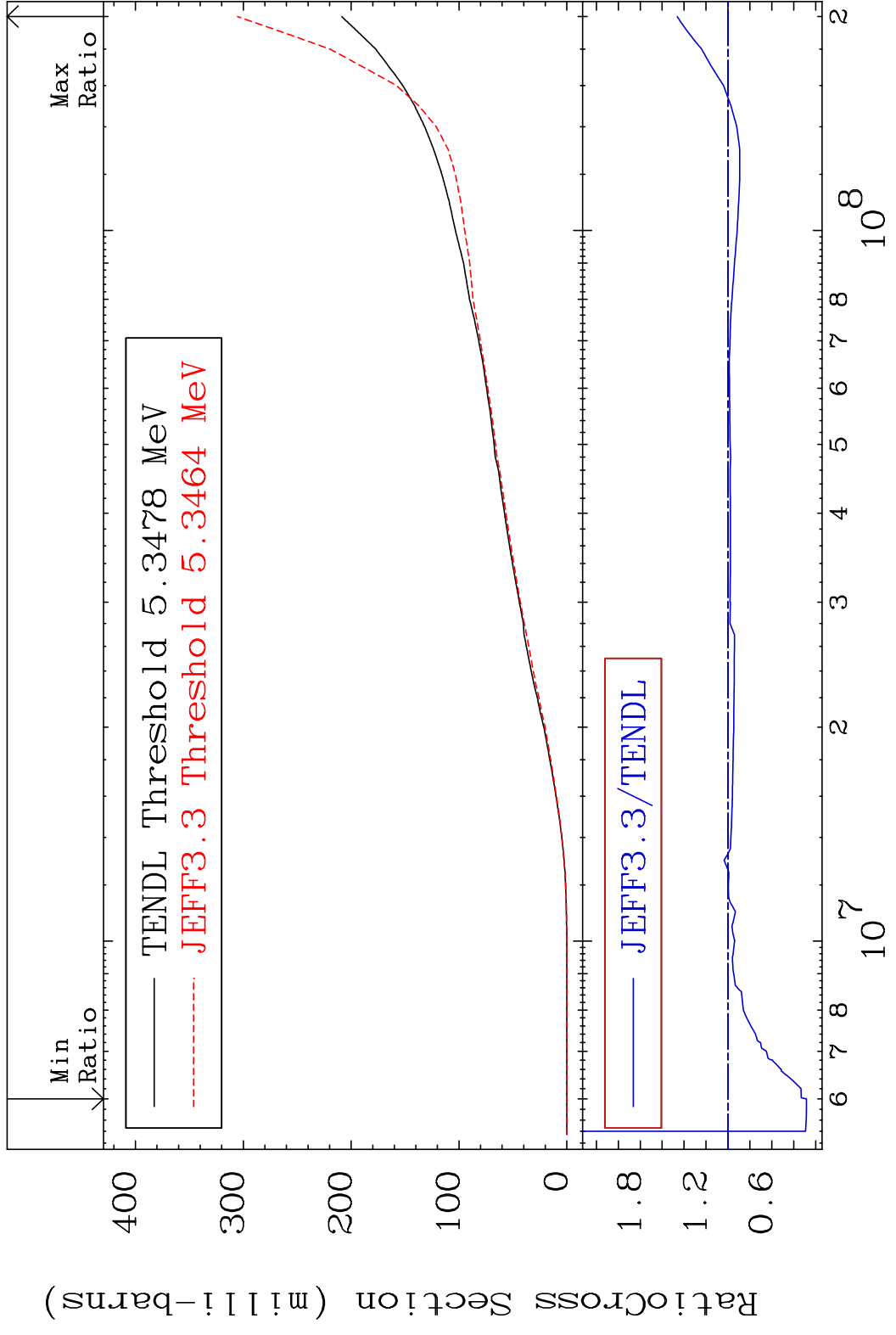


62

Incident Energy (eV)

35-Br-81

MAT 3531 Deuterium Production 35-Br-81
 Cross Section -71.59 To 46.29 %

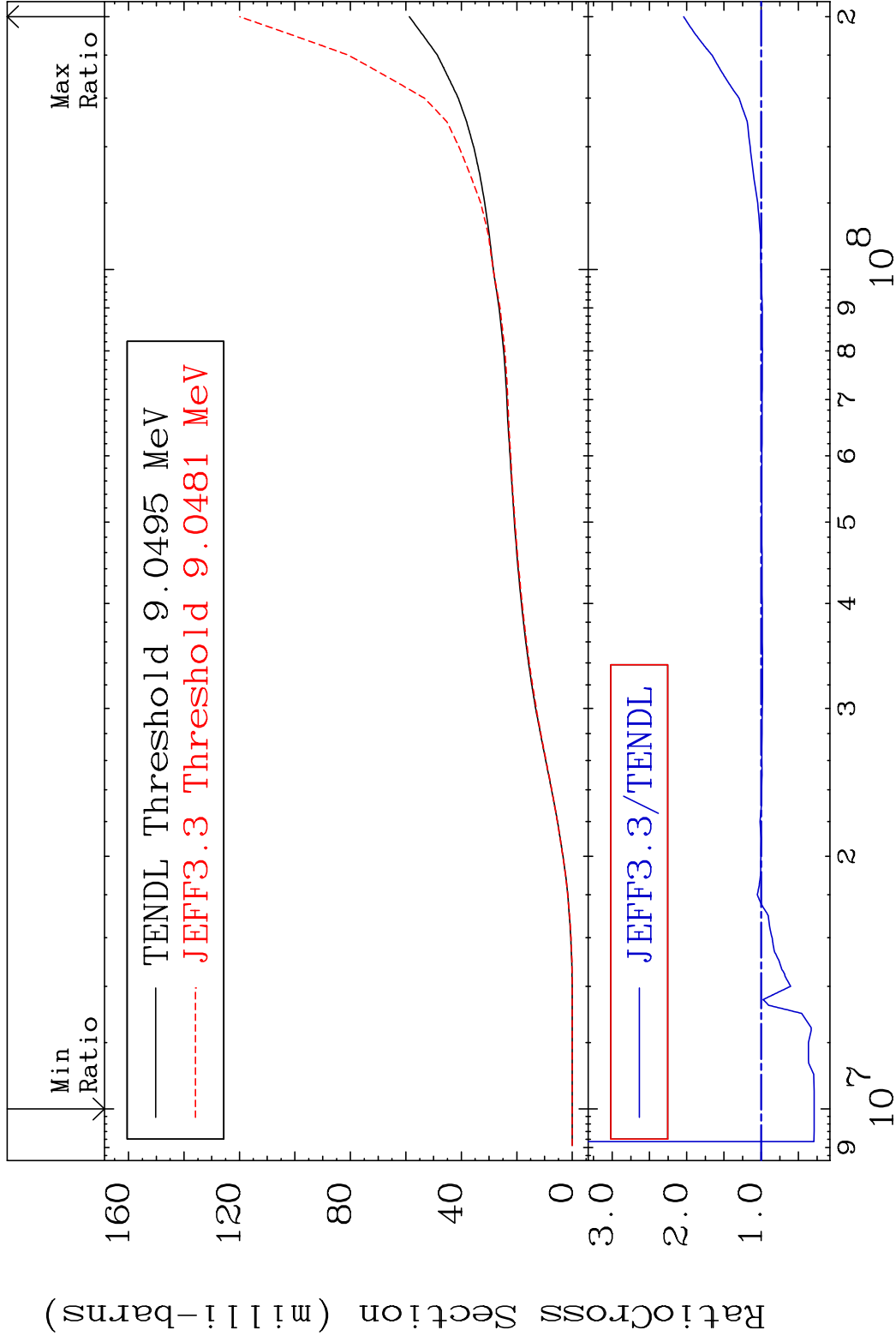


MAT 3531

Tritium Production

35-Br-81

Cross Section -71.04 To 104.1 %



64

Incident Energy (eV)

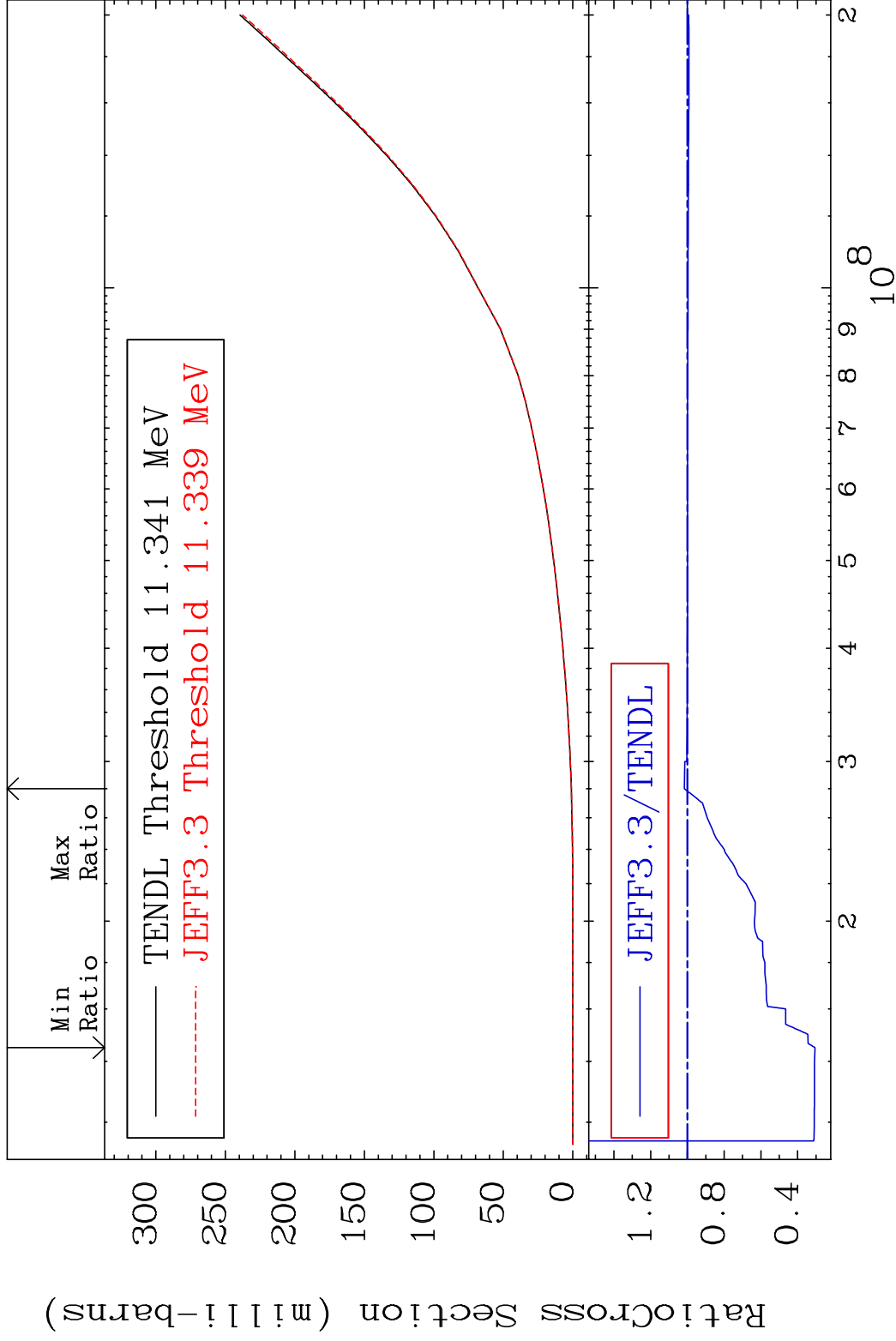
35-Br-81

MAT 3531

He-3 Production

35-Br-81

Cross Section -69.39 To 1.667 %



65

Incident Energy (eV)

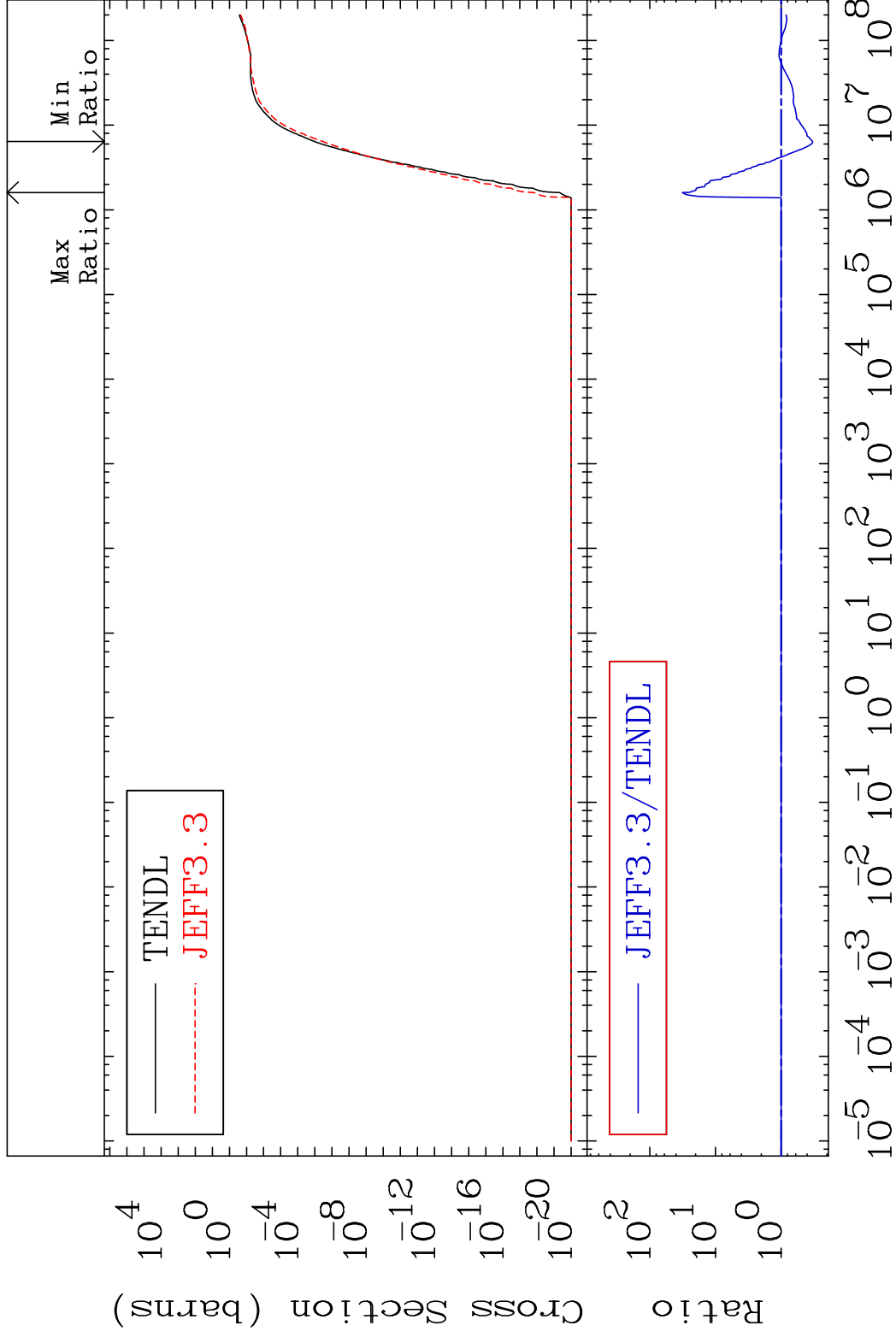
35-Br-81

MAT 3531

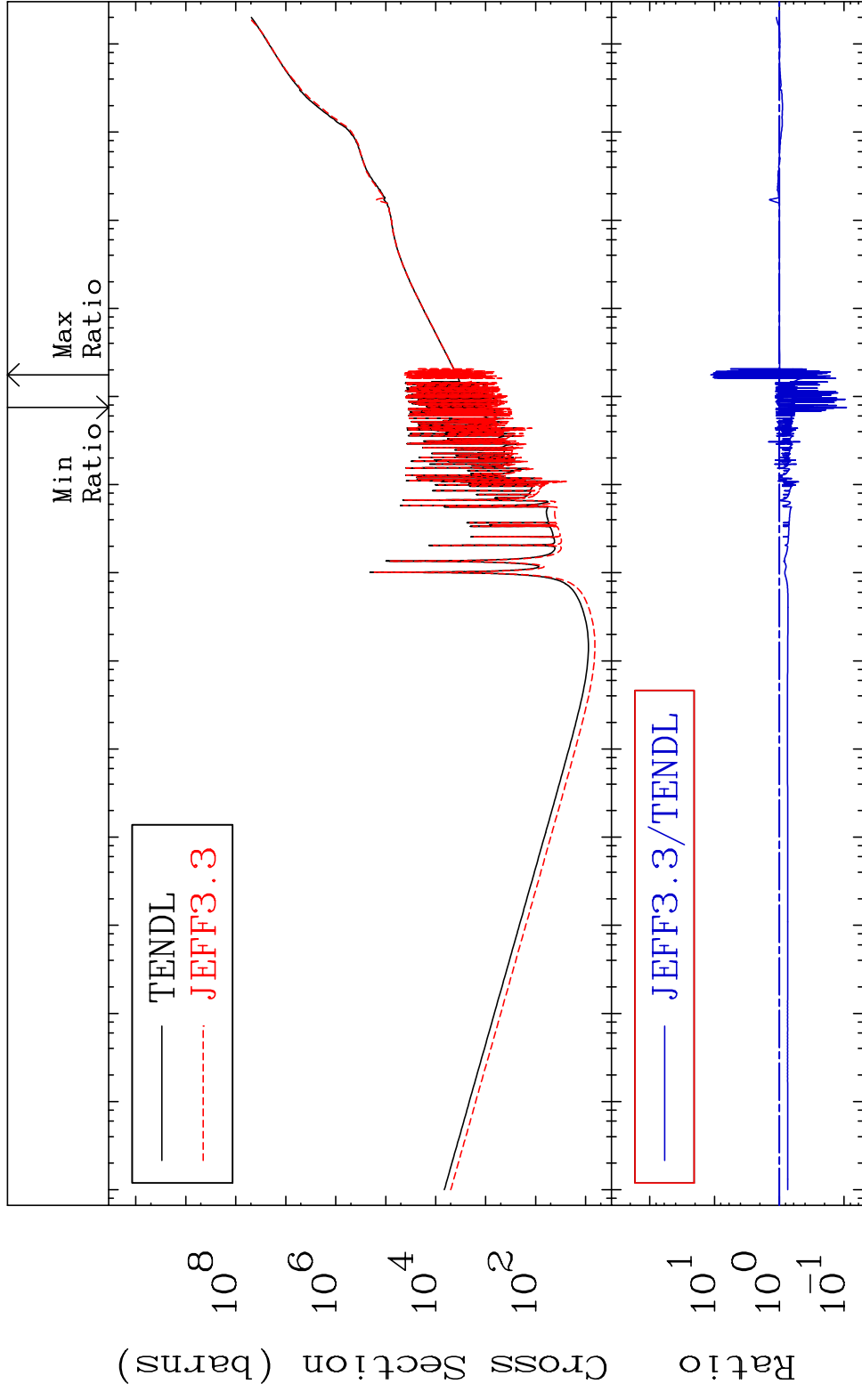
He-4 Production

35-Br-81

Cross Section -66.87 To 3093. %



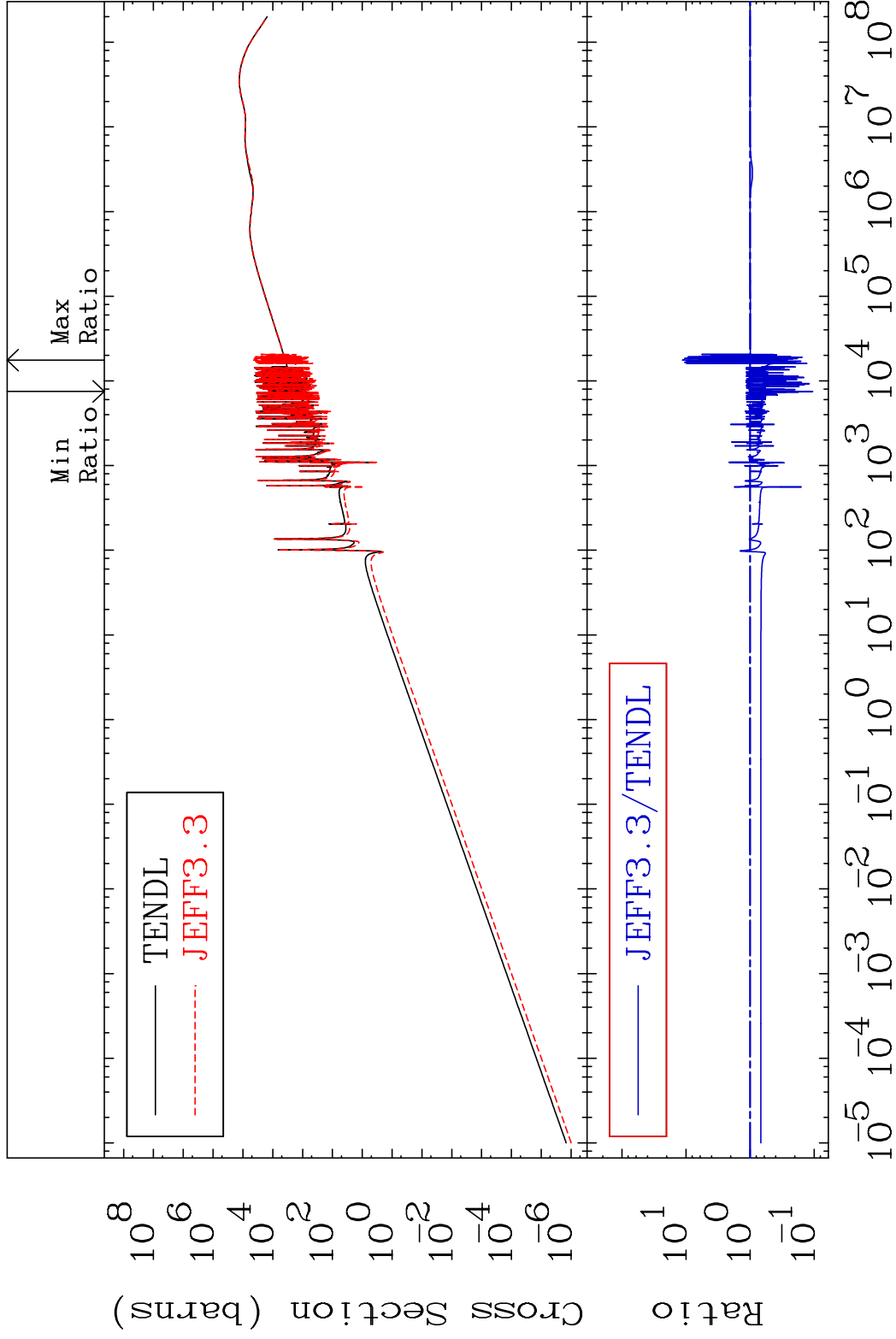
MAT 3531 Kerma total (eV-barns) 35-Br-81
 Cross Section -90.78 To 1047. %



67 Incident Energy (eV) 35-Br-81

MAT 3531

Kerma elastic Cross Section -89.39 To 1042. %
35-Br-81

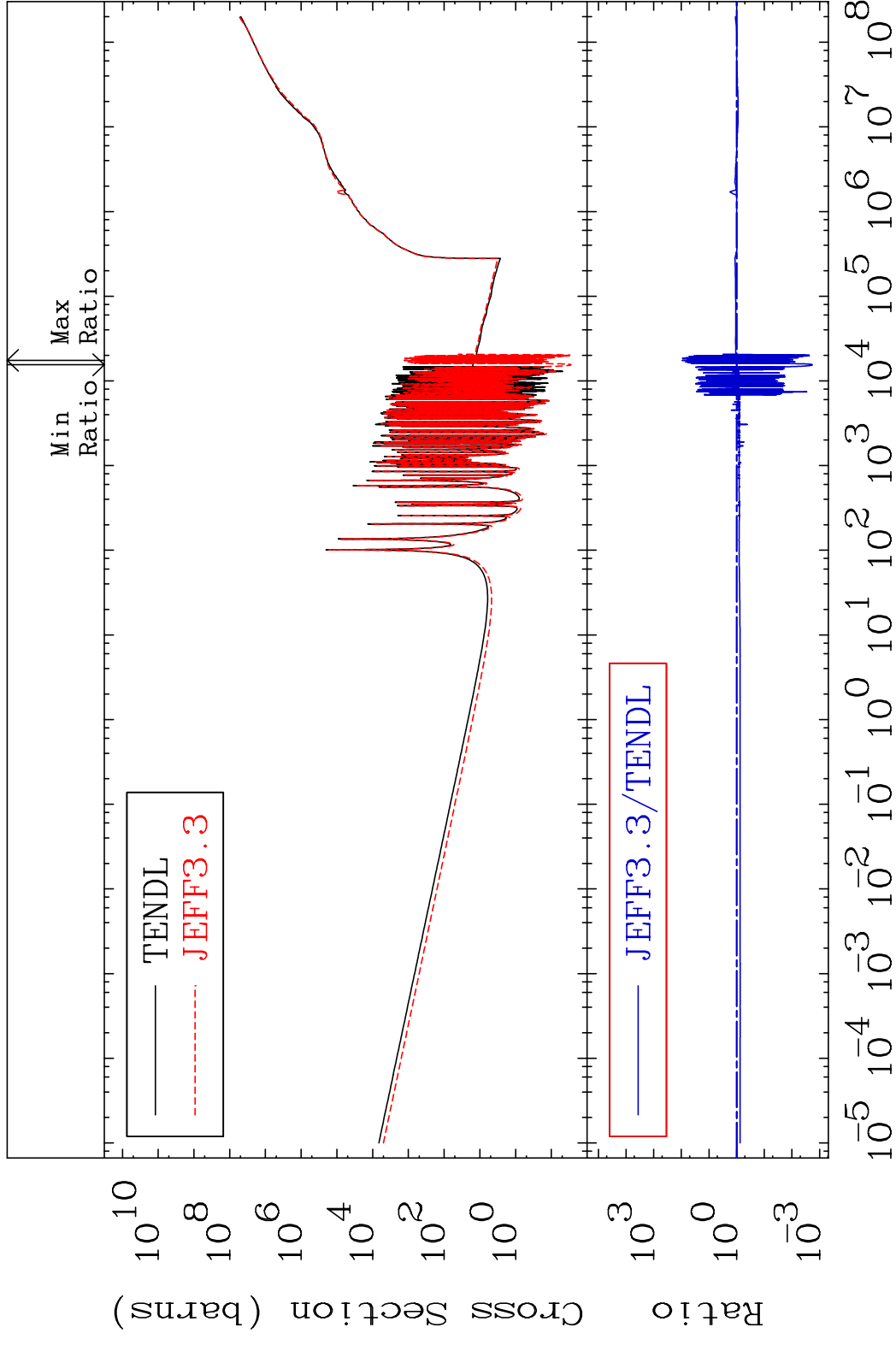


68

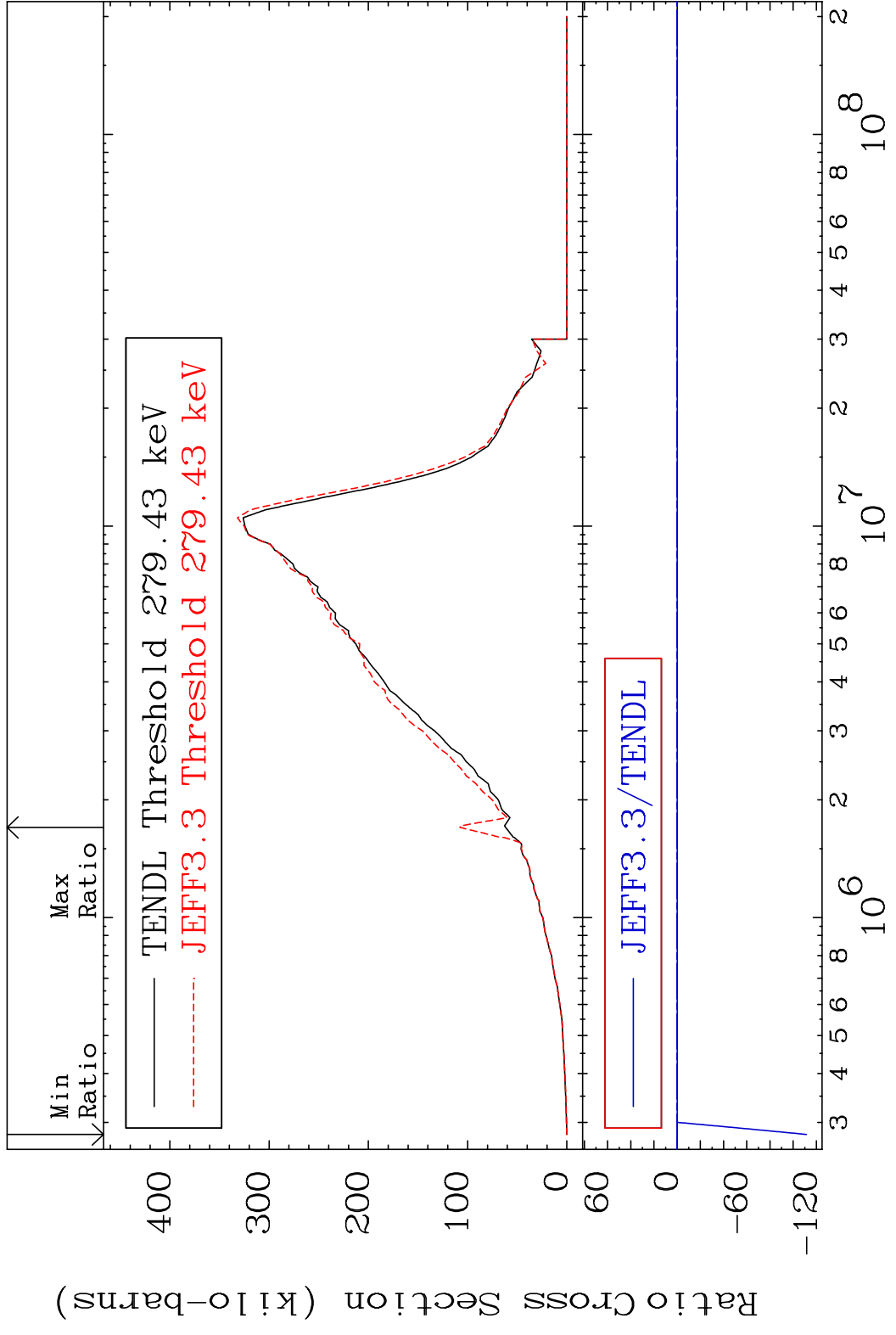
Incident Energy (eV)

35-Br-81

MAT 3531 Kerma non-elastic (all but mt2) 35-Br-81
 Cross Section -99.82 To 9099. %



MAT 3531 Kerma inelastic (mt51-91) 35-Br-81
 Cross Section -9999. To 74.60 %

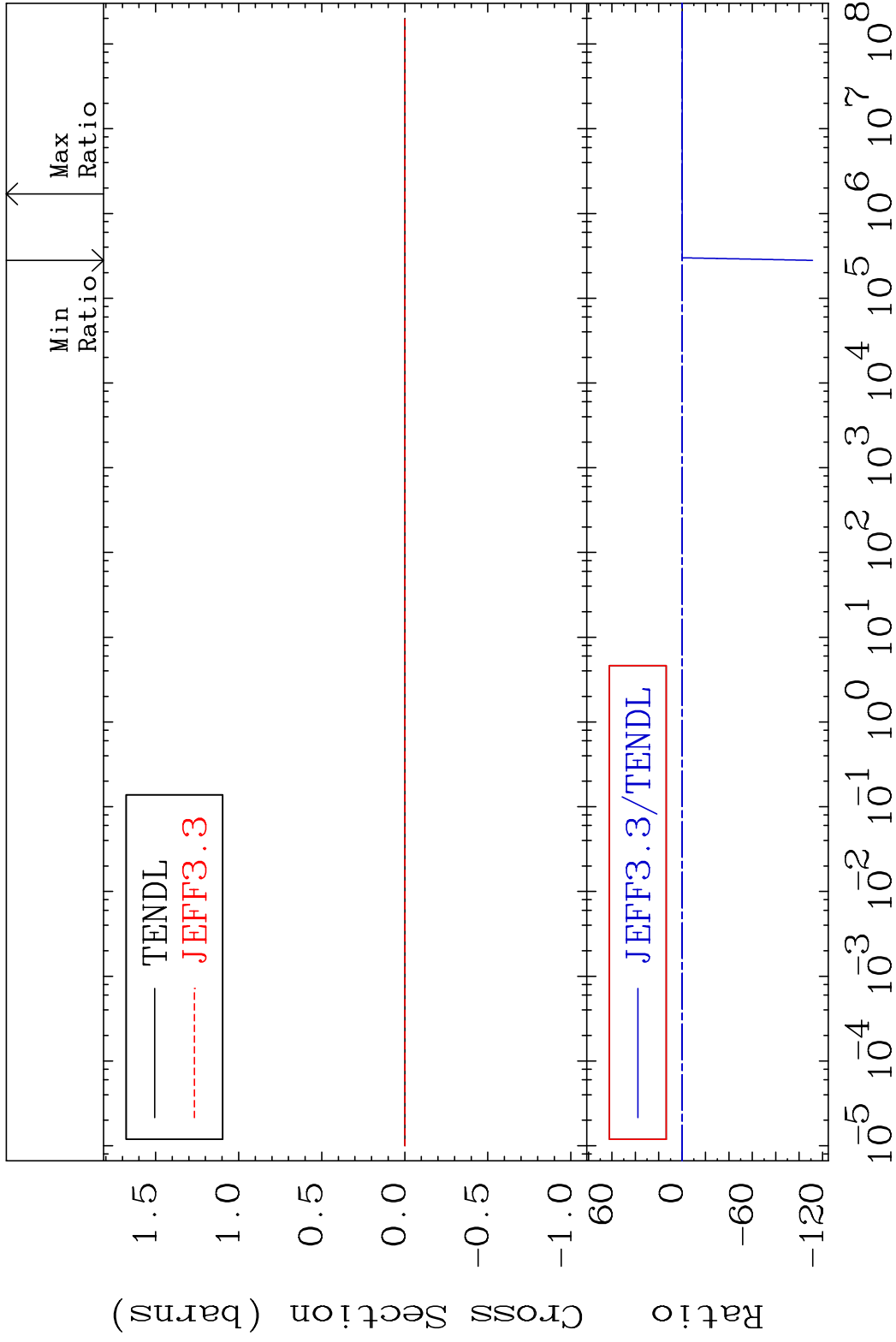


70

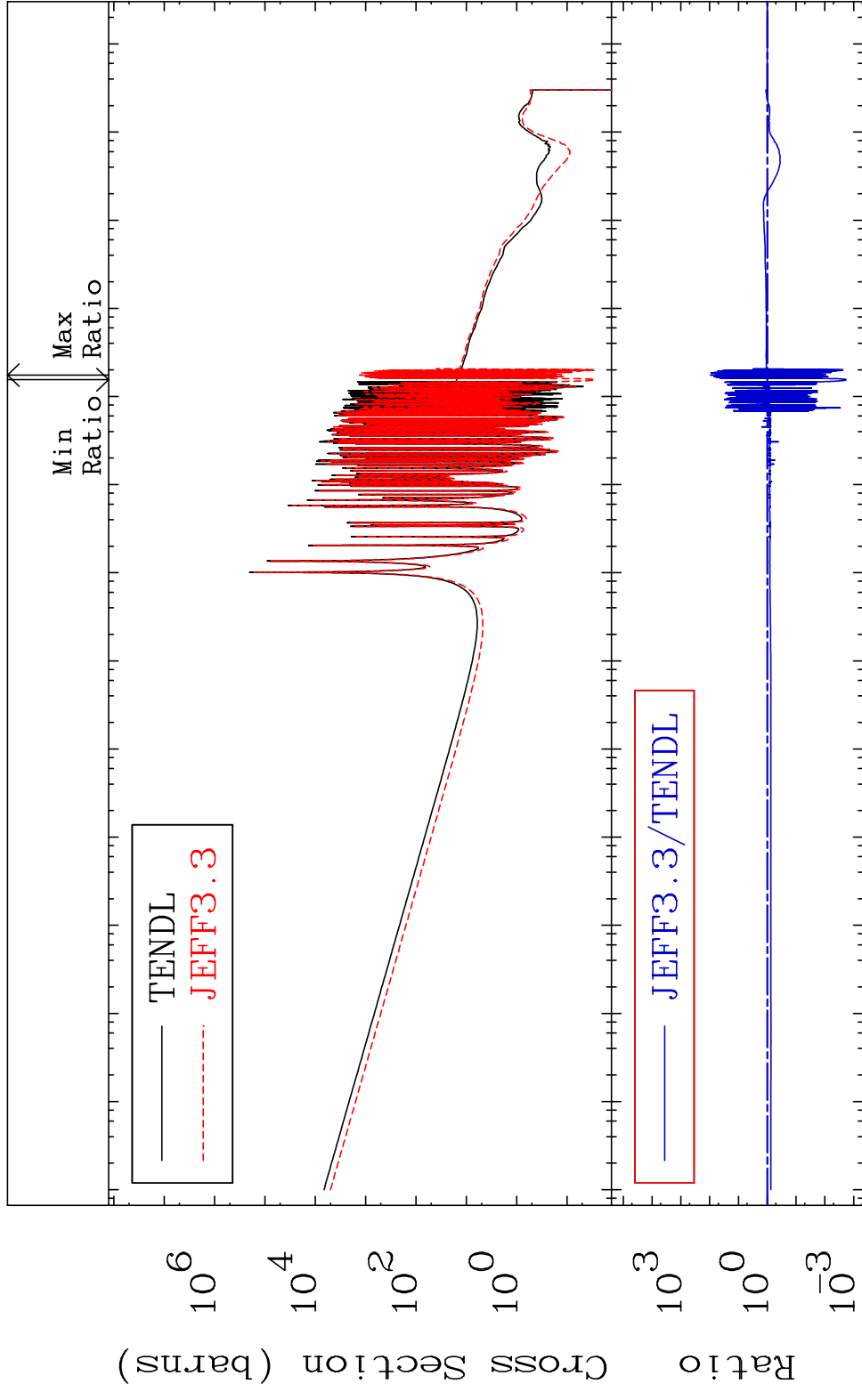
Incident Energy (eV)

35-Br-81

MAT 3531 Kerma fission (mt18 or mt19-20-21-38) 35-Br-81
 Cross Section -9999. To 74.60 %

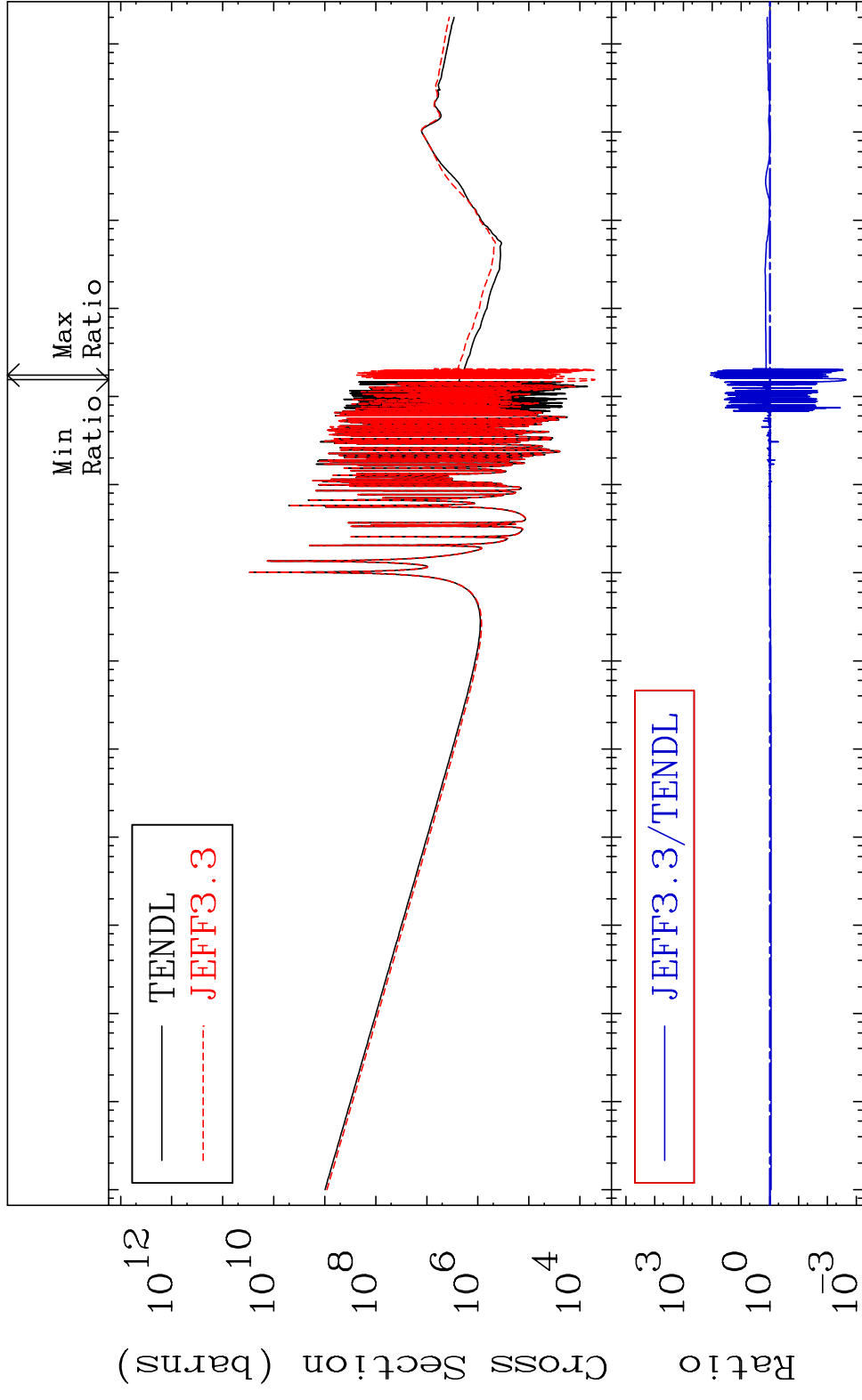


MAT 3531 Kerma capture (mt102) 35-Br-81
 Cross Section -99.82 To 9099. %



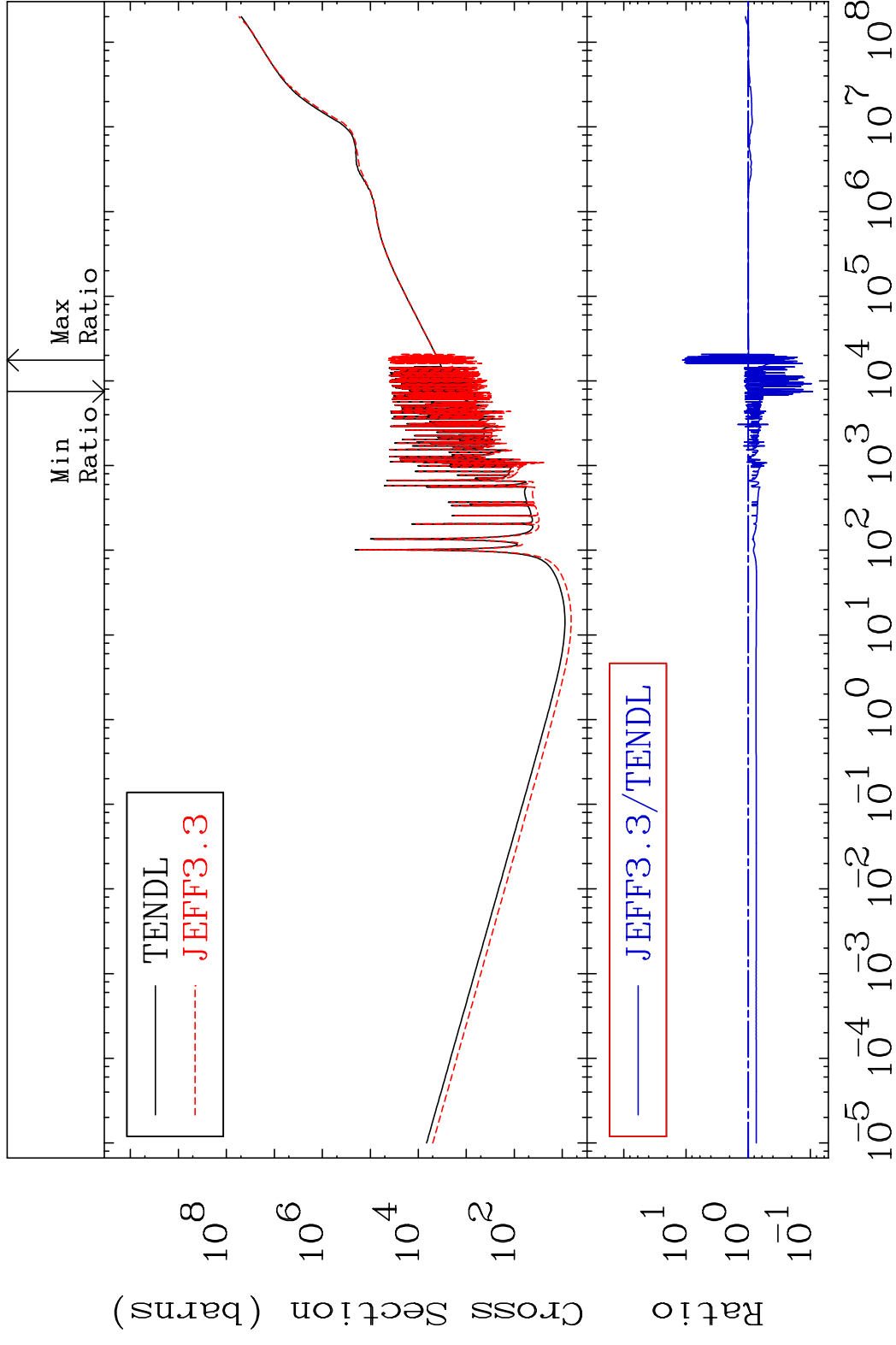
72 Incident Energy (eV) 35-Br-81

MAT 3531 Total photon (eV-barns) 35-Br-81
Cross Section -99.78 To 9999. %



73 Incident Energy (eV) 35-Br-81

MAT 3531 Total kinematic kerma (high limit) 35-Br-81
 Cross Section -90.78 To 1047. %

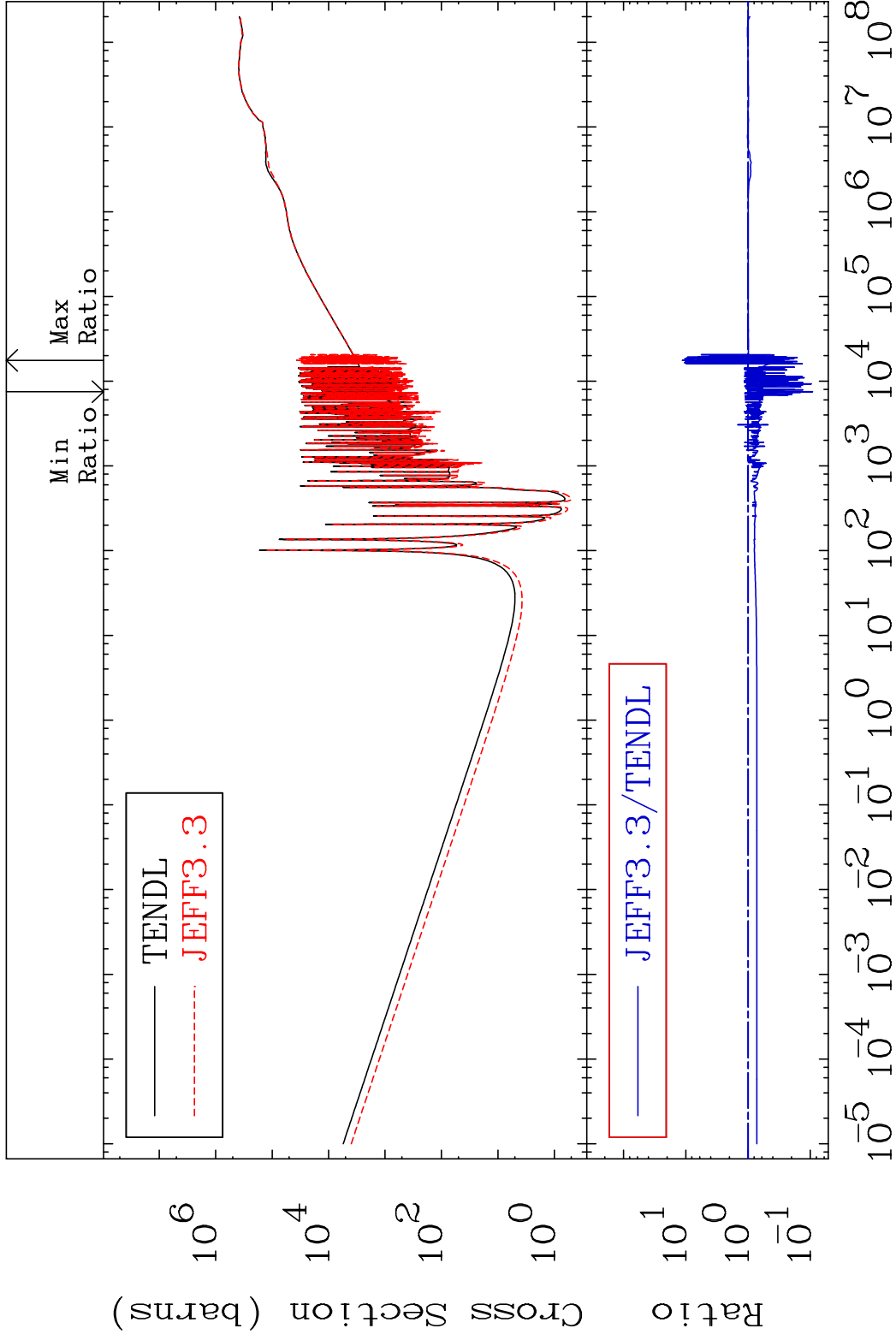


MAT 3531

Dpa total (eV-barns)

35-Br-81

Cross Section -90.777 To 1046. %



75

Incident Energy (eV)

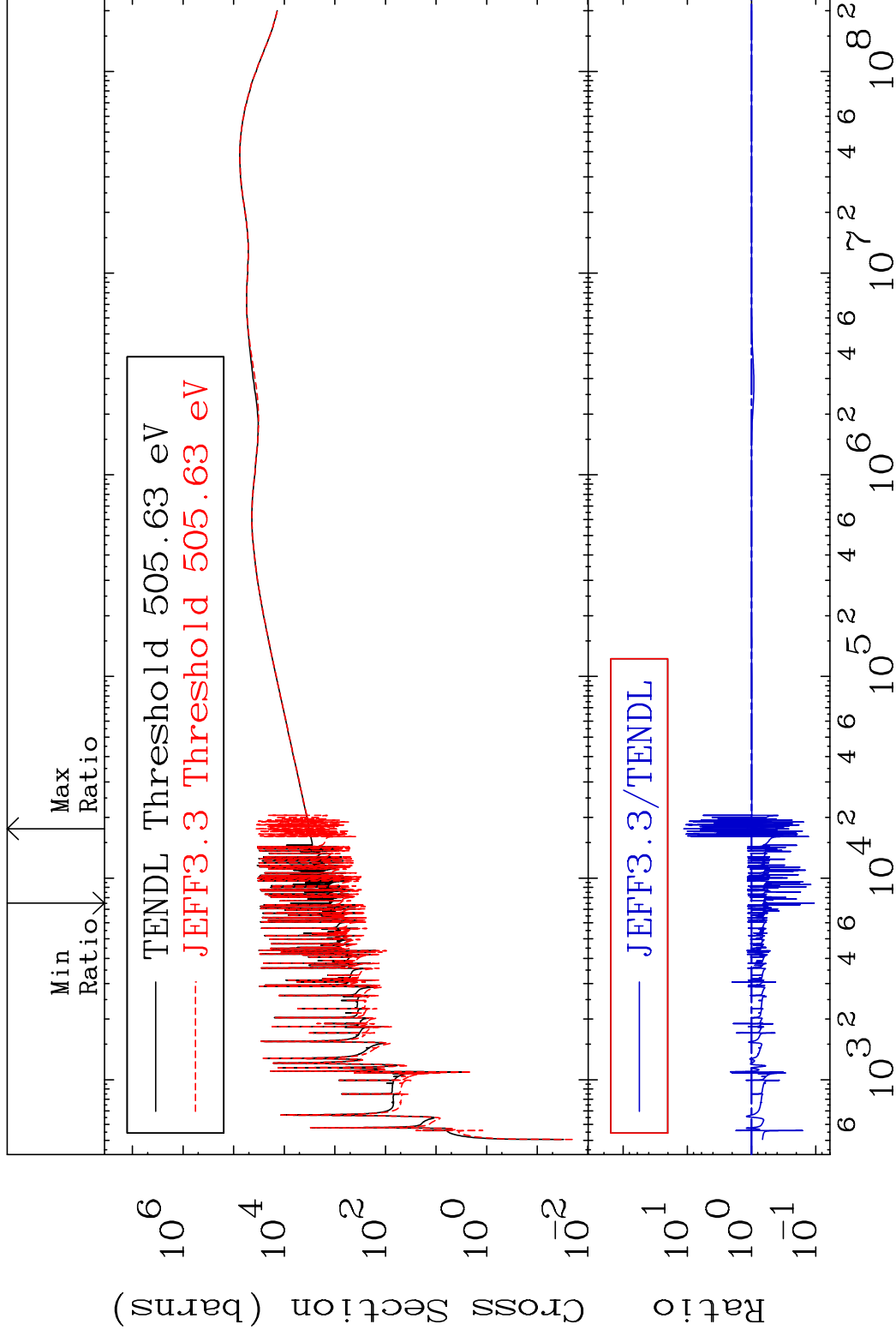
35-Br-81

MAT 3531

Dpa elastic (mt2)

35-Br-81

Cross Section -89.39 To 1042. %



76

Incident Energy (eV)

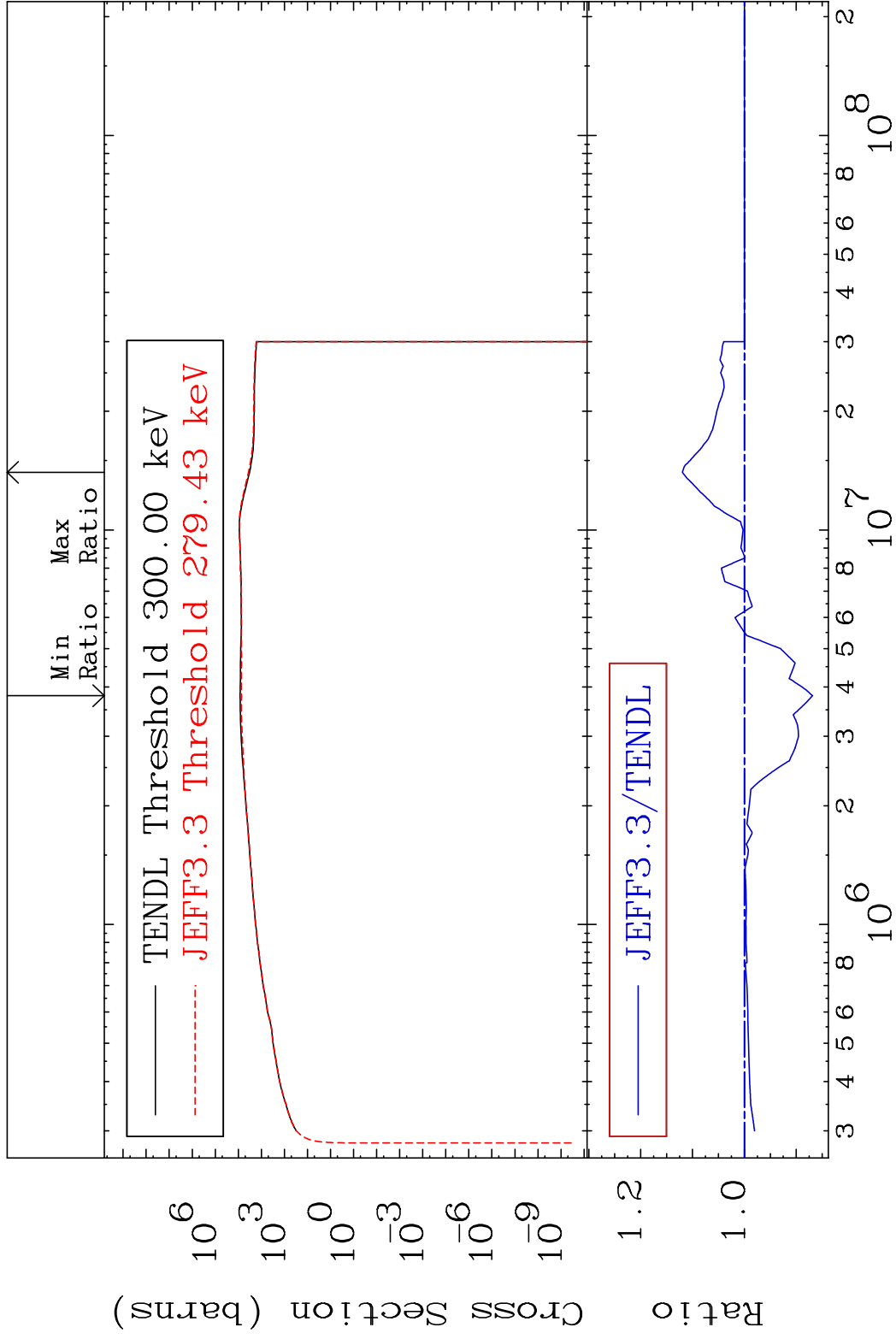
35-Br-81

MAT 3531

Dpa inelastic (mt51-91)

35-Br-81

Cross Section -13.15 To 11.96 %

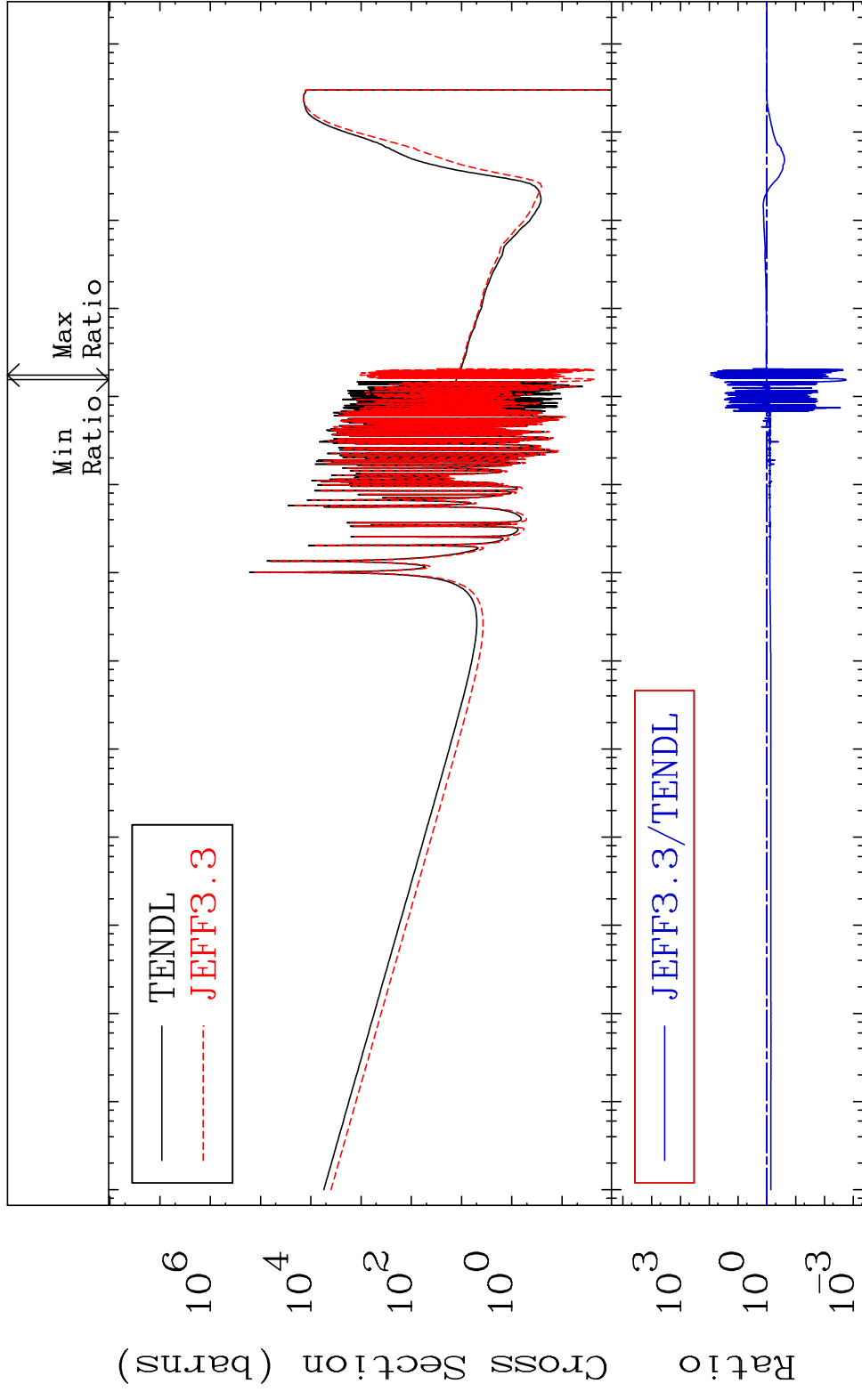


77

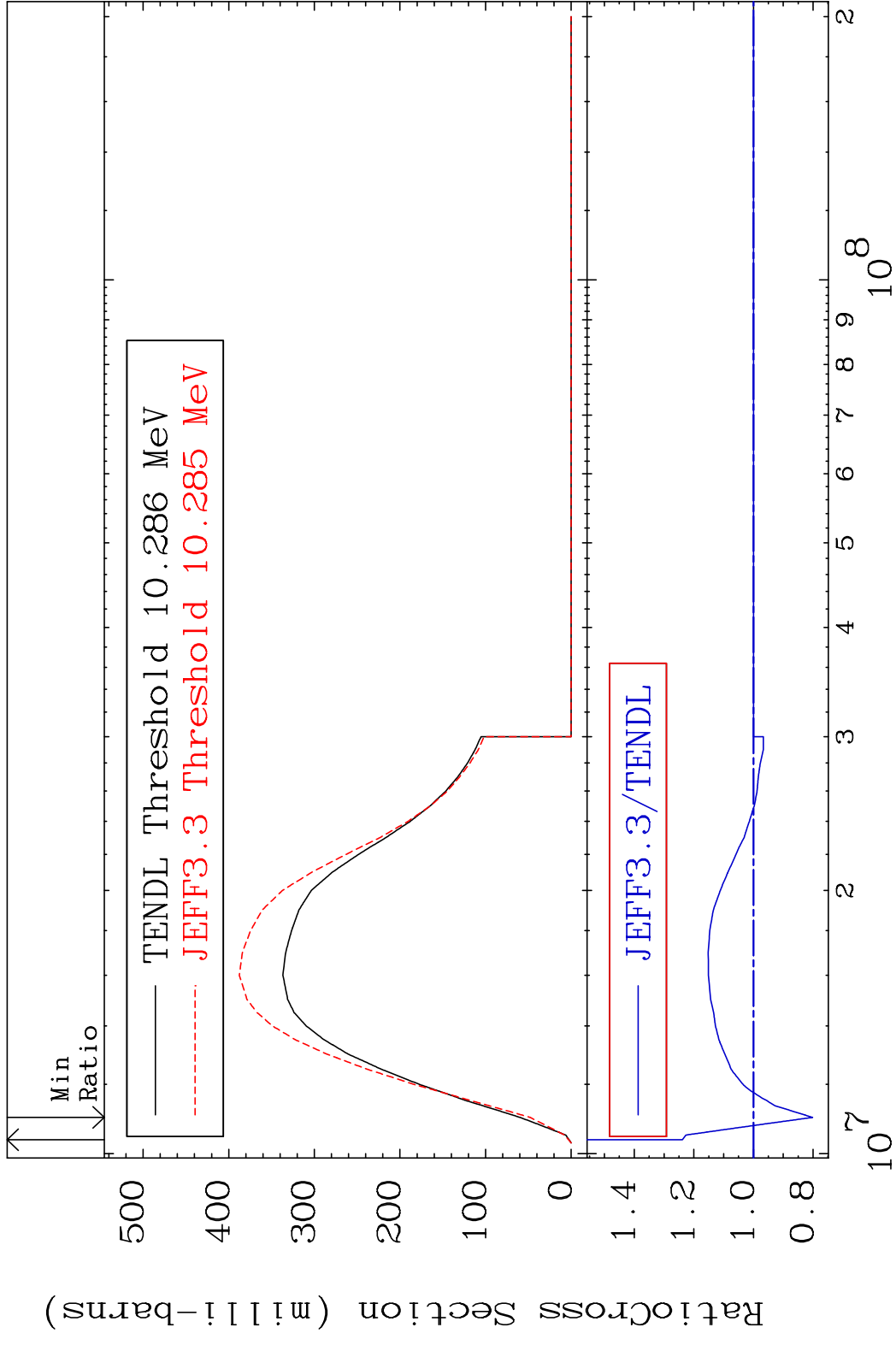
Incident Energy (eV)

35-Br-81

MAT 3531 Dpa disappearance (mt102 -120) 35-Br-81
 Cross Section -99.83 To 8820. %

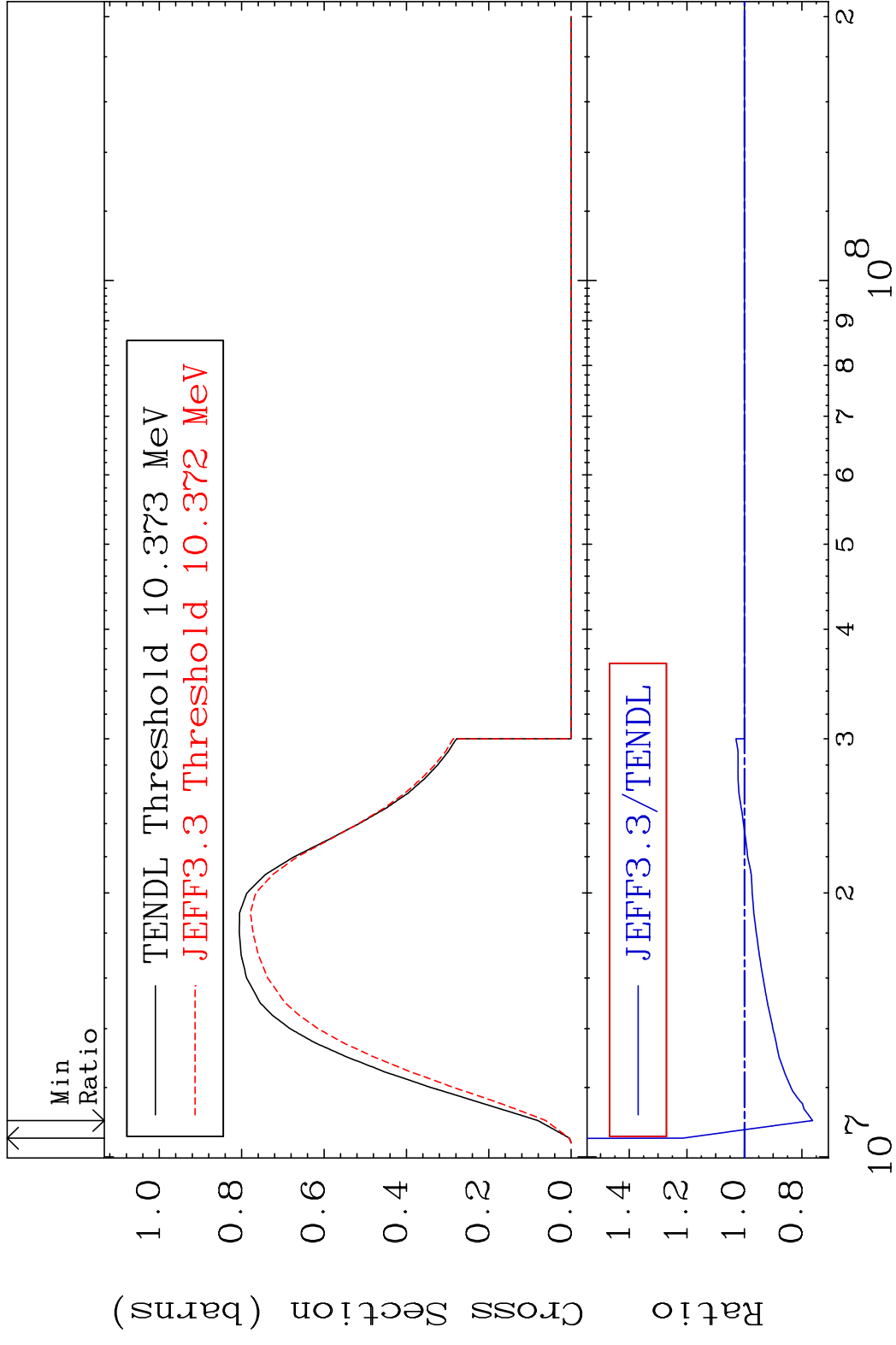


MAT 3531 (n,2n):35-Br-80g 35-Br-81
 Radionuclide Production Cross Section 23.85 %



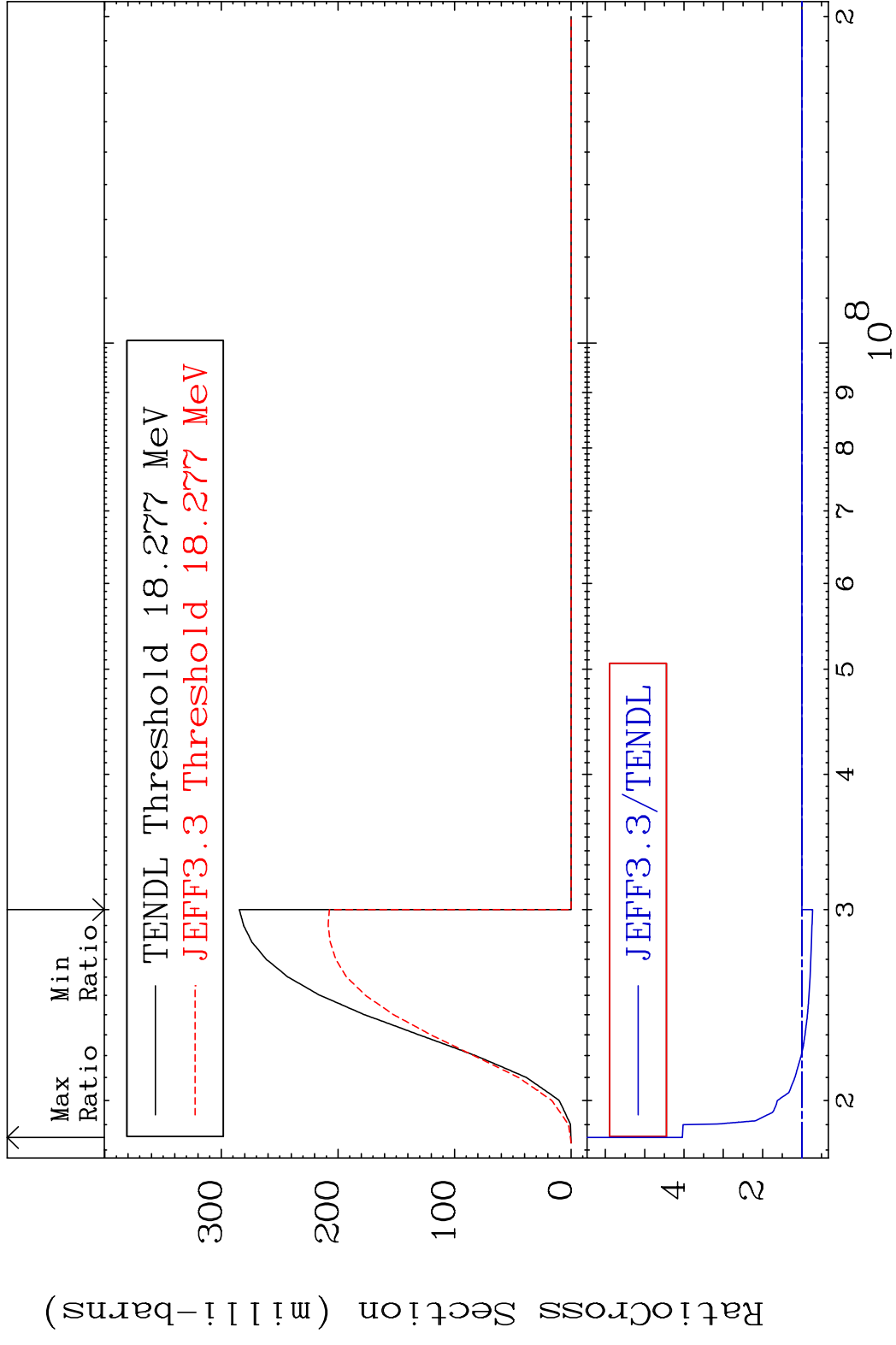
79 Incident Energy (eV) 35-Br-81

MAT 3531 (n,2n):35-Br-80m2 35-Br-81
 Radionuclide Production Cross Section 21.56 %



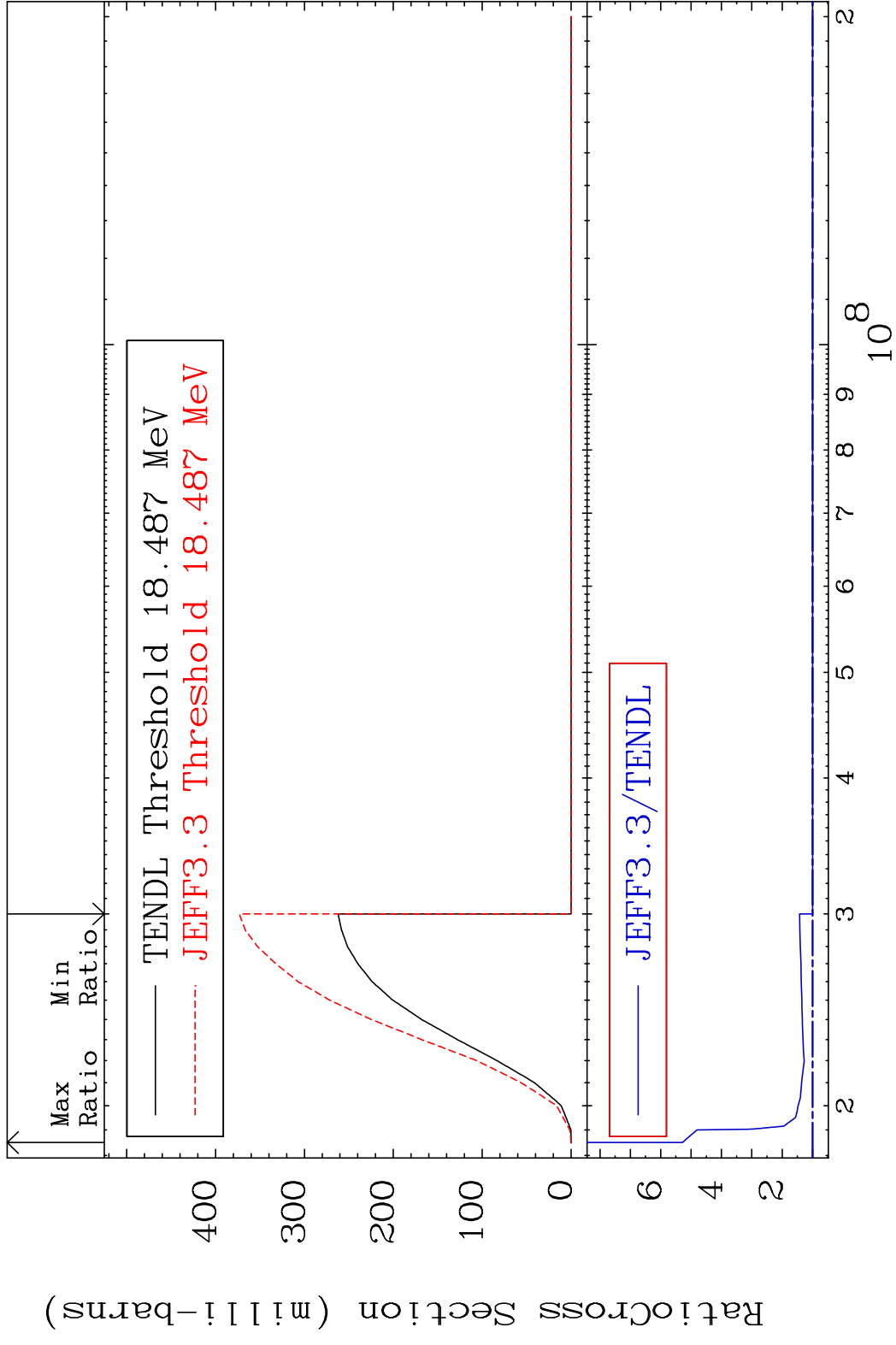
80 35-Br-81

MAT 3531 (n,3n):35-Br-79g 35-Br-81
 Radionuclide Production Cross Section 304.2 %

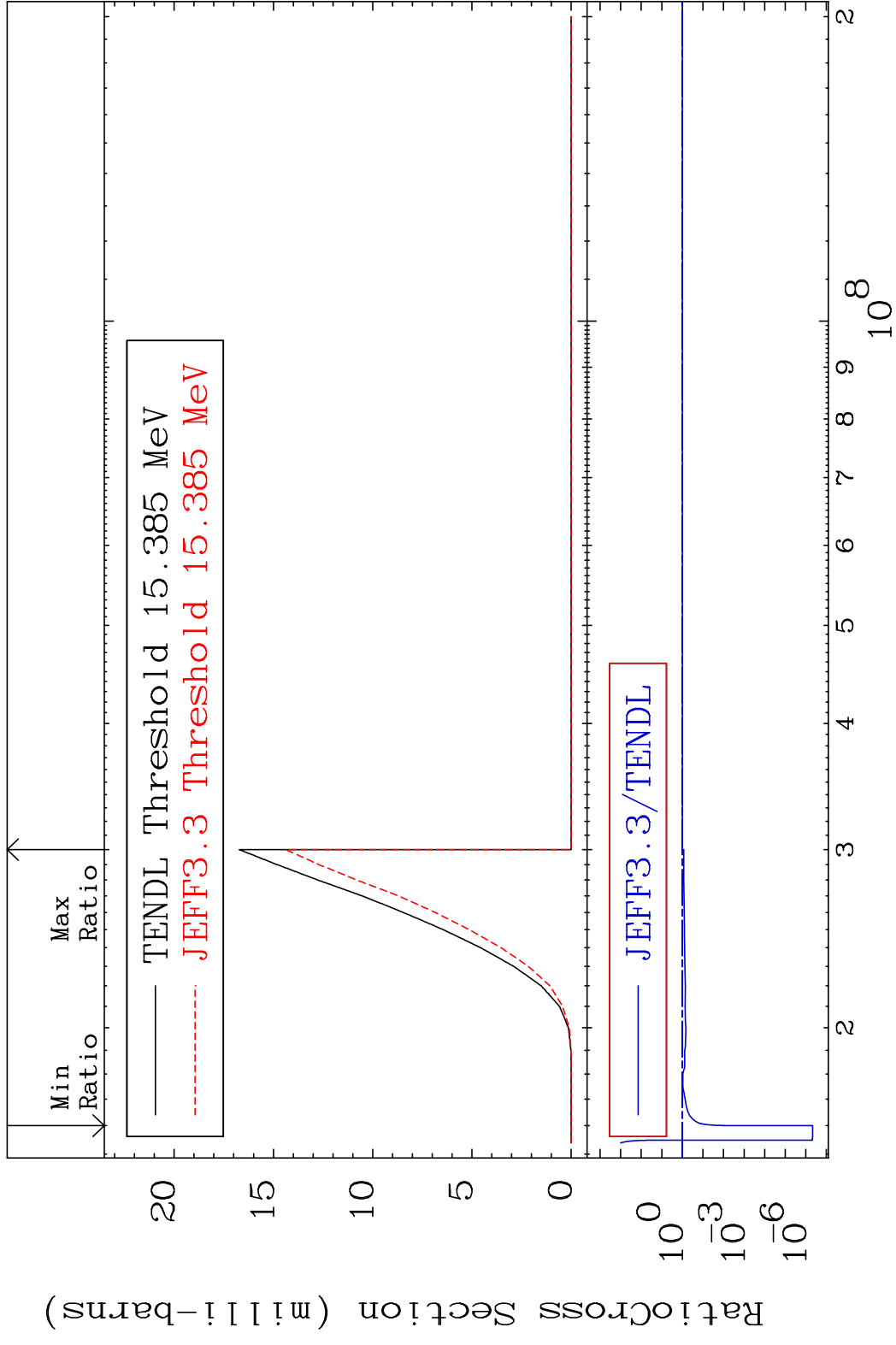


81 Incident Energy (eV) 35-Br-81

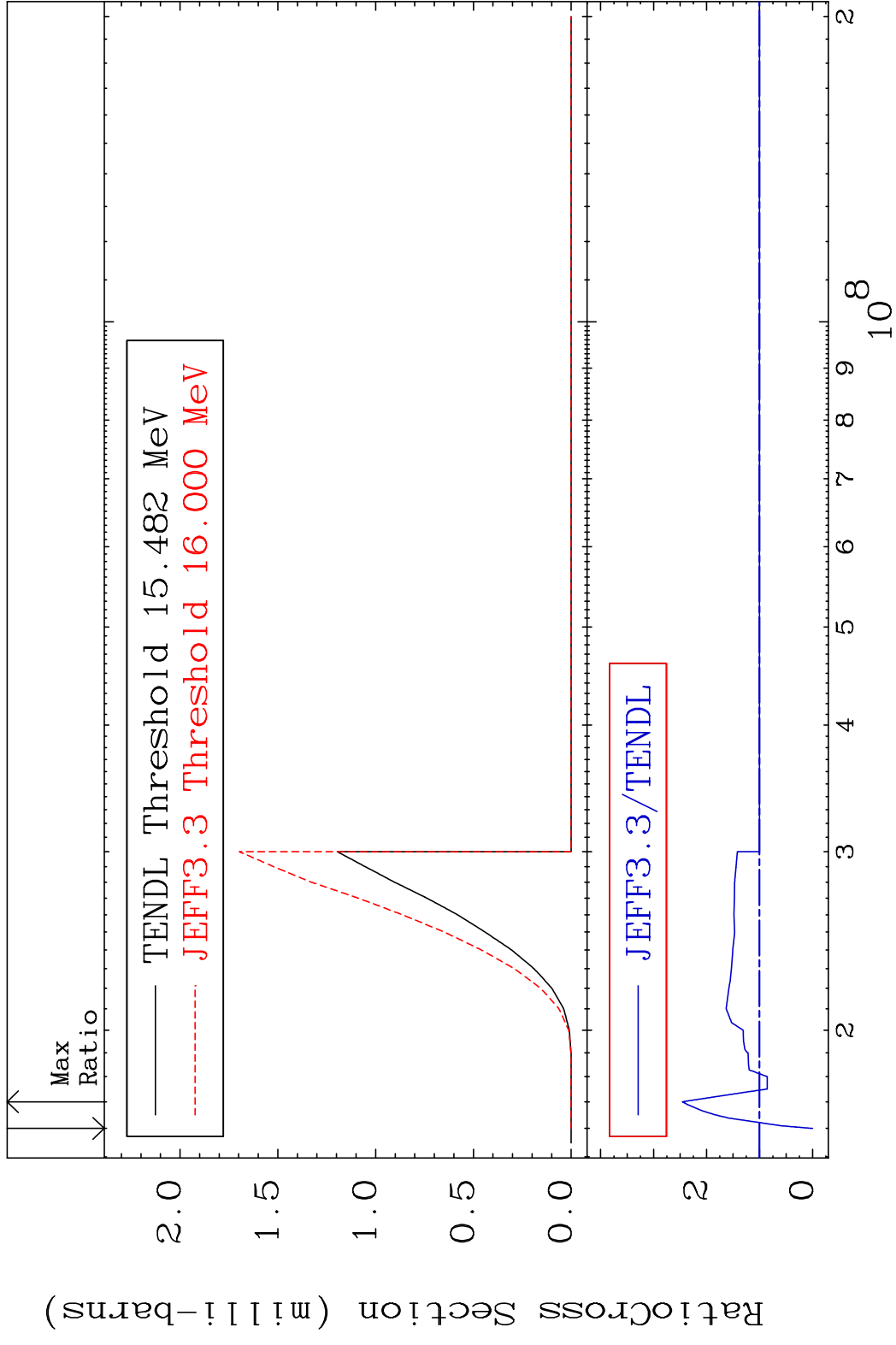
MAT 3531 (n,3n):35-Br-79m1 35-Br-81
 Radionuclide Production Cross Section 428.7 %



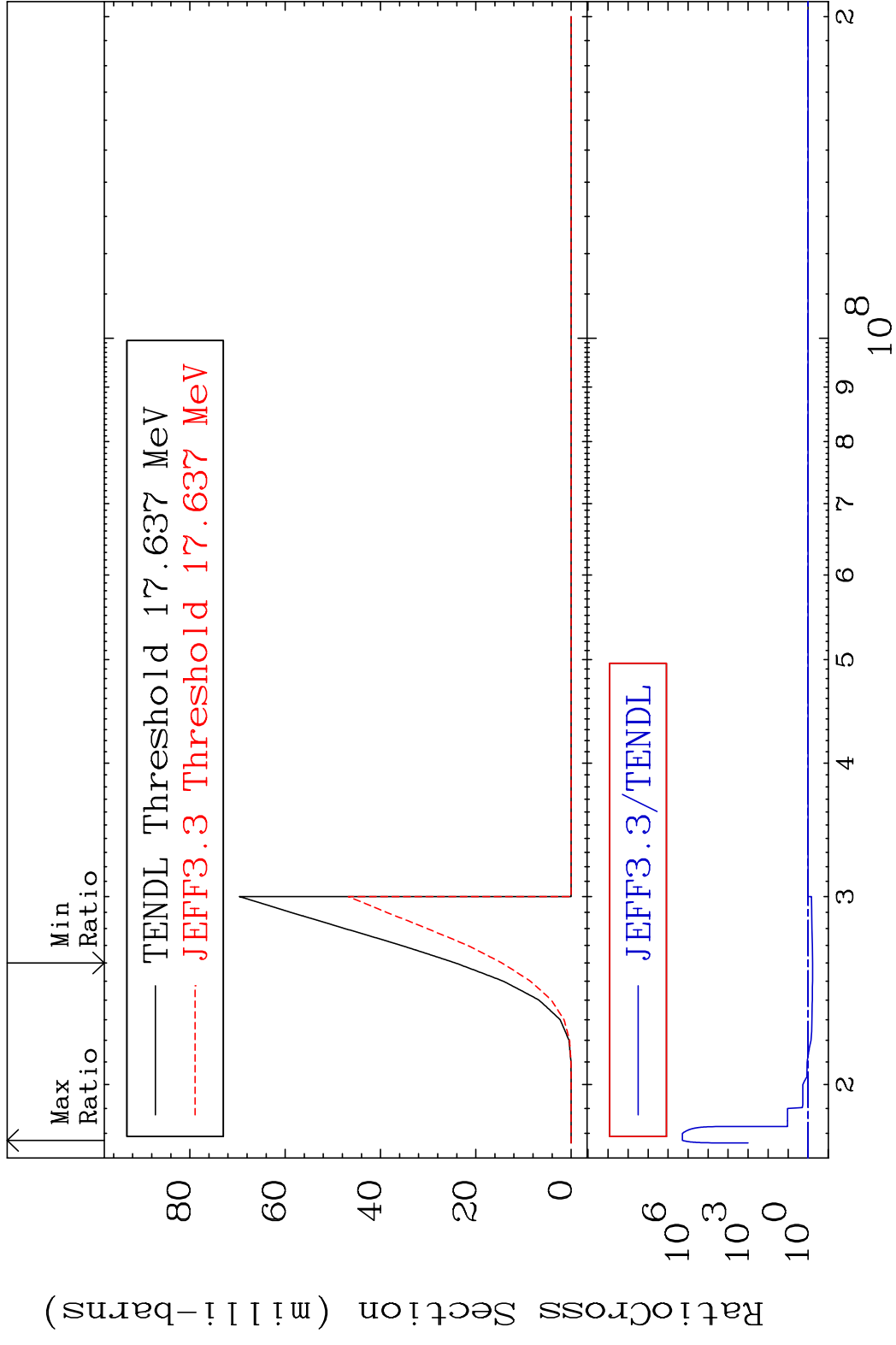
MAT 3531 (n, n') d:34-Se-79g 35-Br-81
 Radionuclide Production Cross Section 18000 dtd 0.000 %

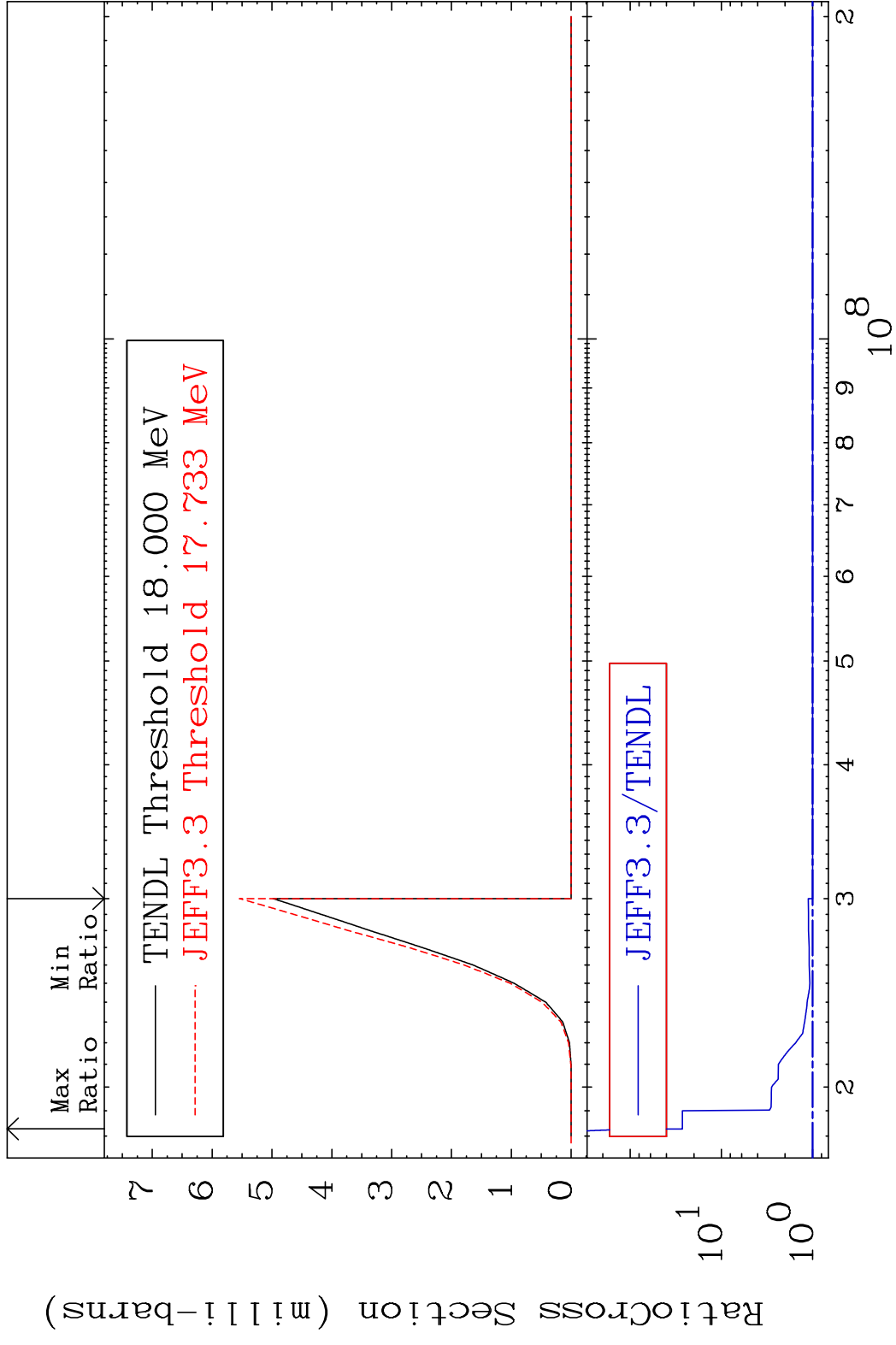


MAT 3531 (n, n') d:34-Se-79m1 35-Br-81
 Radionuclide Production Cross Section 180.0 dno 145.7 %

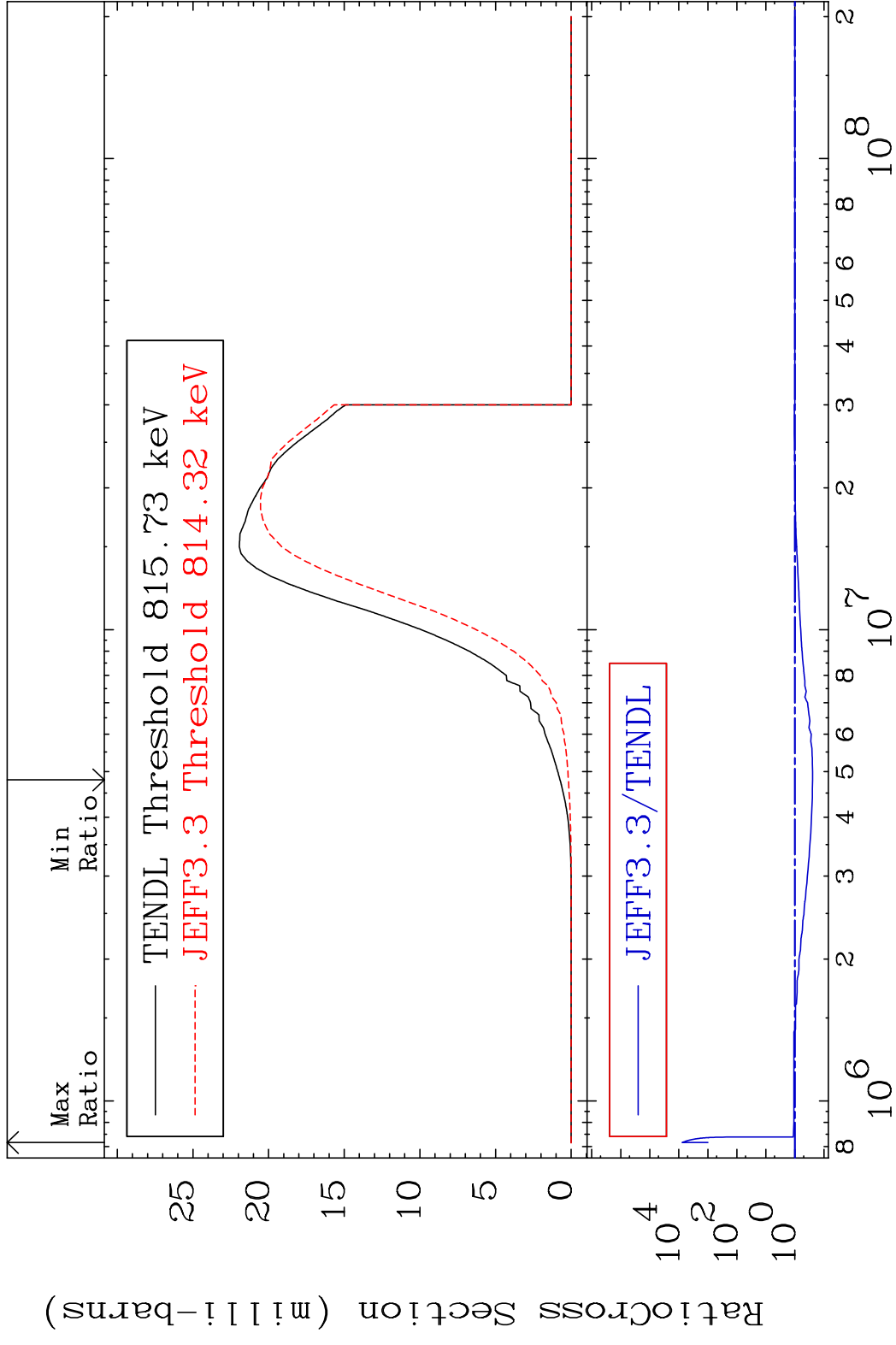


MAT 3531 (n,2n) p:34-Se-79g 35-Br-81
 Radionuclide Production Cross Section to 9999. %

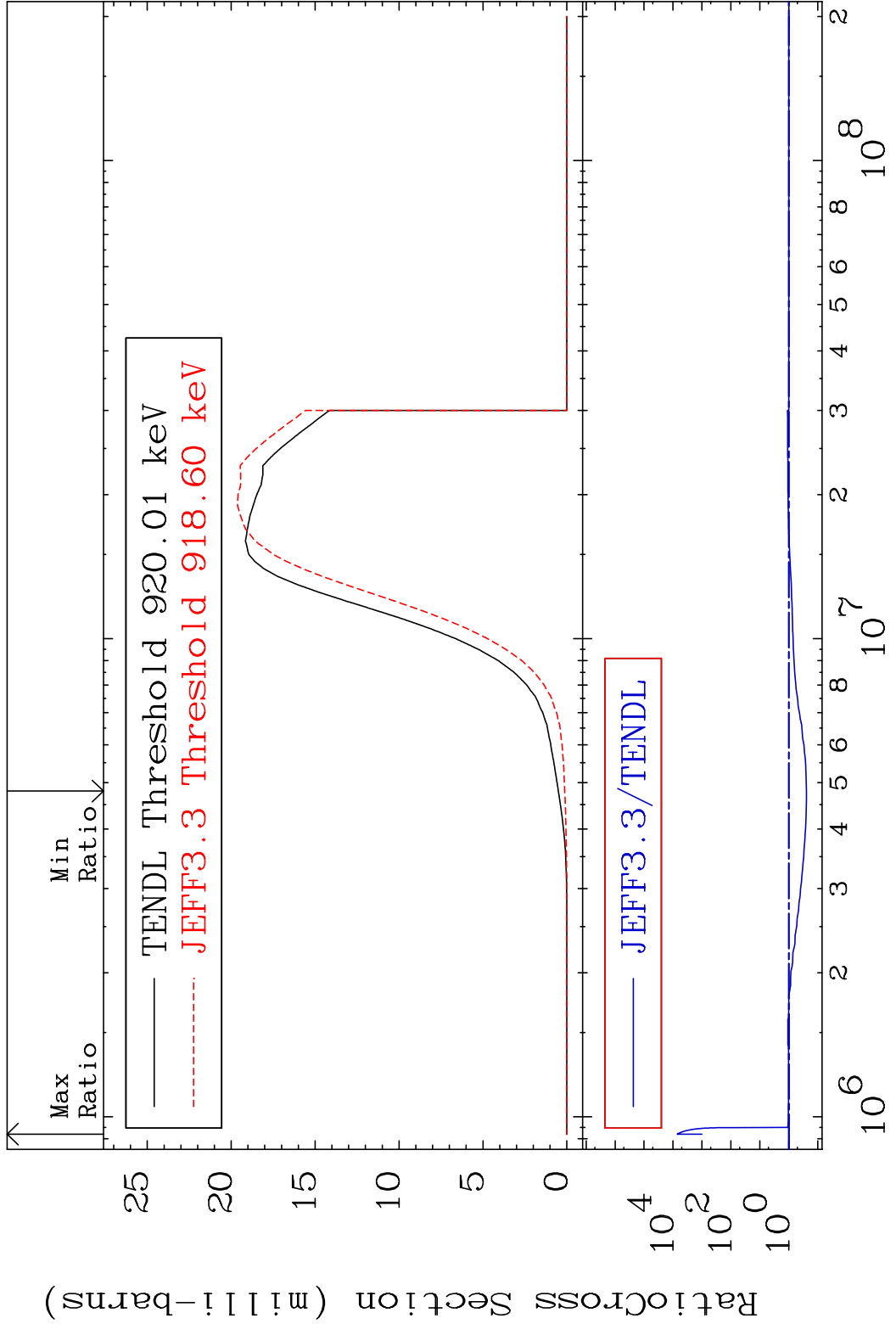




MAT 3531 (n,p):34-Se-81g 35-Br-81
 Radionuclide Production Cross Section to 9999. %

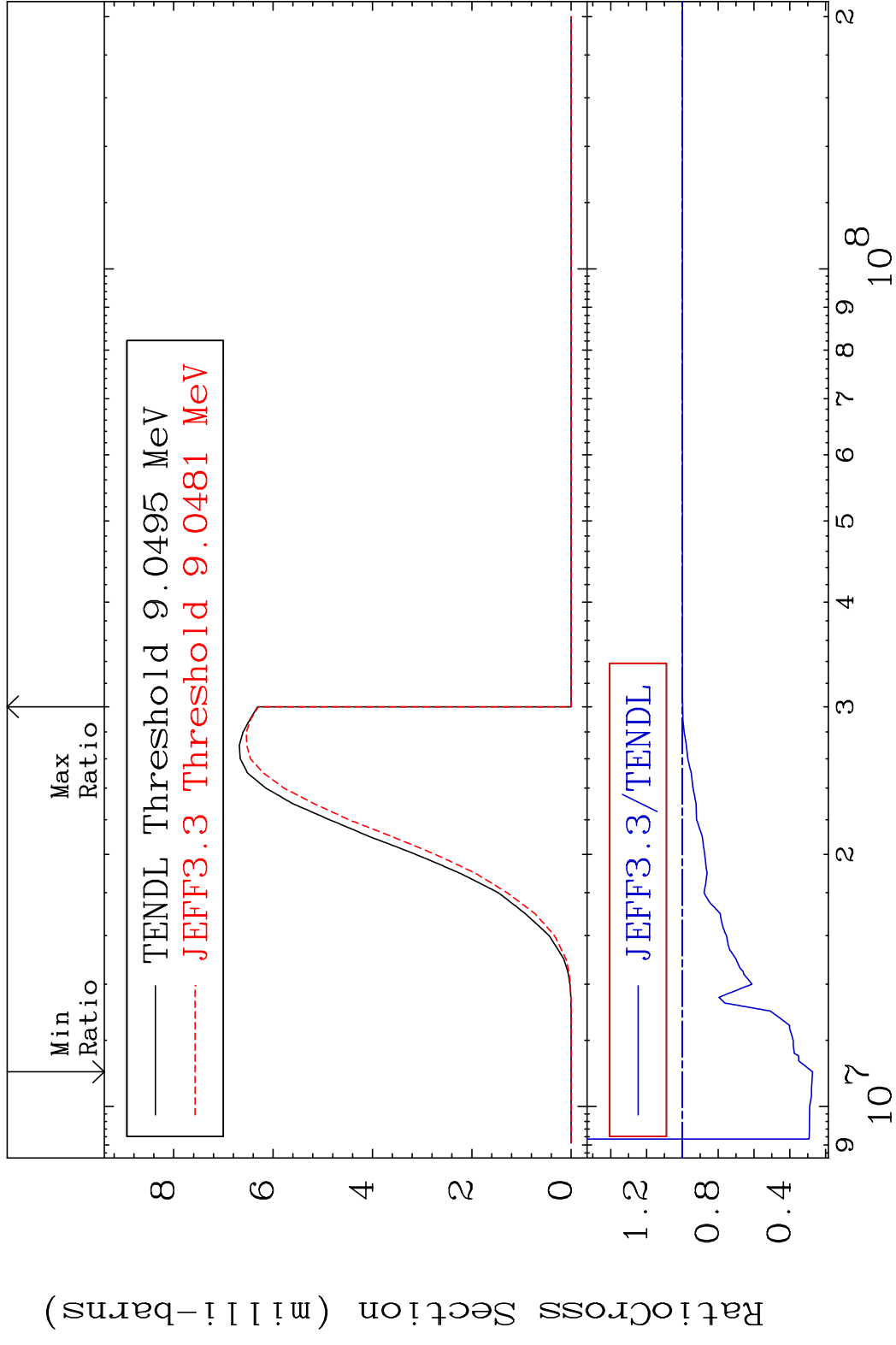


MAT 3531 (n,p):34-Se-81m1 35-Br-81
 Radionuclide Production Cross Section 9999. %



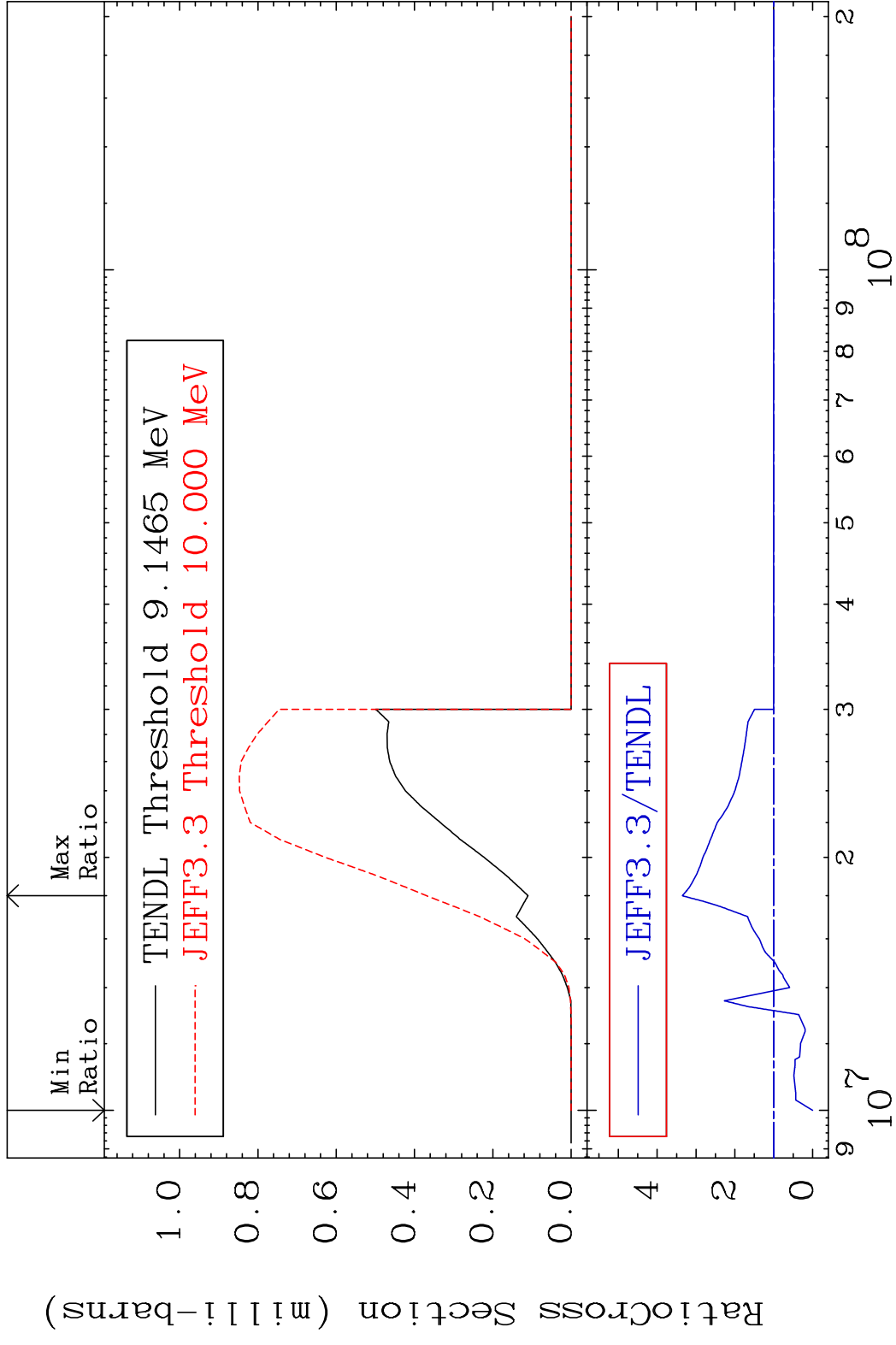
88 Incident Energy (eV) 35-Br-81

MAT 3531 (n, t):34-Se-79g 35-Br-81
 Radionuclide Production Cross Section 0.000 %



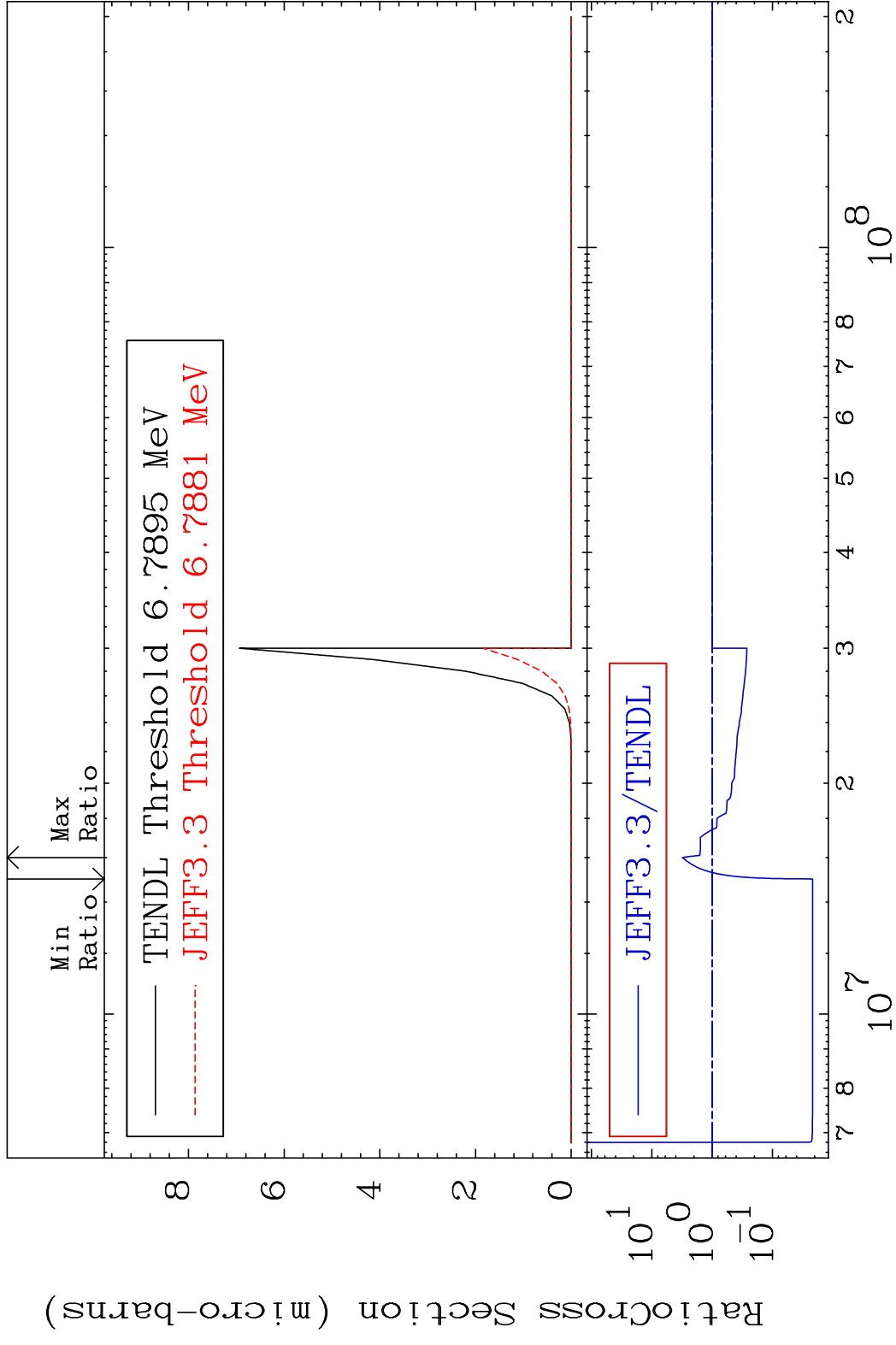
89 Incident Energy (eV) 35-Br-81

MAT 3531 (n, t):34-Se-79m1 35-Br-81
 Radionuclide Production Cross Section 180.01 dth 235.2 %

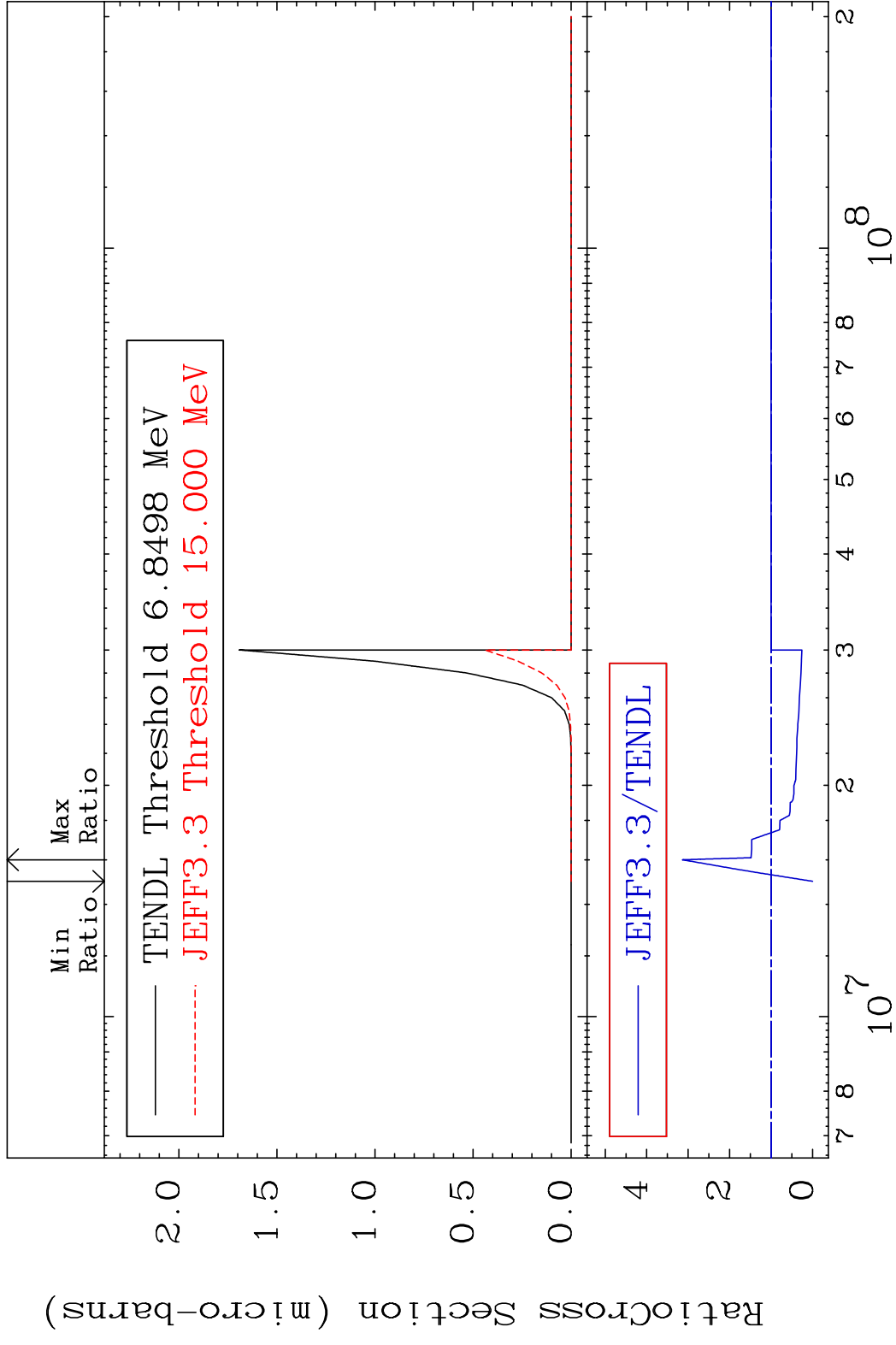


90 90 Incident Energy (eV) 35-Br-81

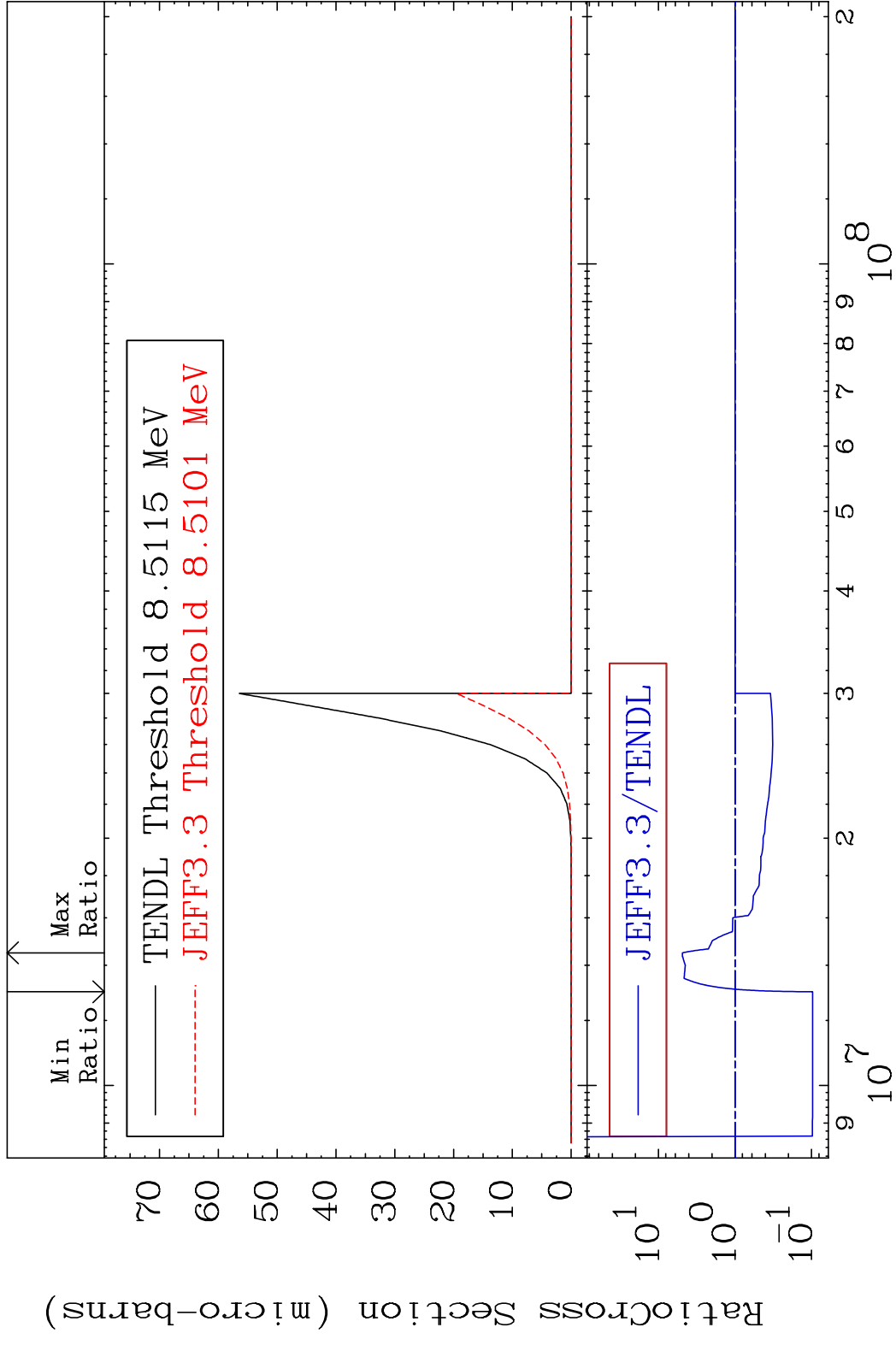
MAT 3531 (n,2α):31-Ga-74g 35-Br-81
 Radionuclide Production Cross Section 211.8 %



MAT 3531 (n,2α):31-Ga-74m2 35-Br-81
 Radionuclide Production Cross Section 180.0 dth 214.0 %



MAT 3531 (n, p) α :32-Ge-77g 35-Br-81
 Radionuclide Production Cross Section 386.6 %



MAT 3531 (n, p) α :32-Ge-77m1 35-Br-81
 Radionuclide Production Cross Section 180.01 dth 358.7 %

