

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

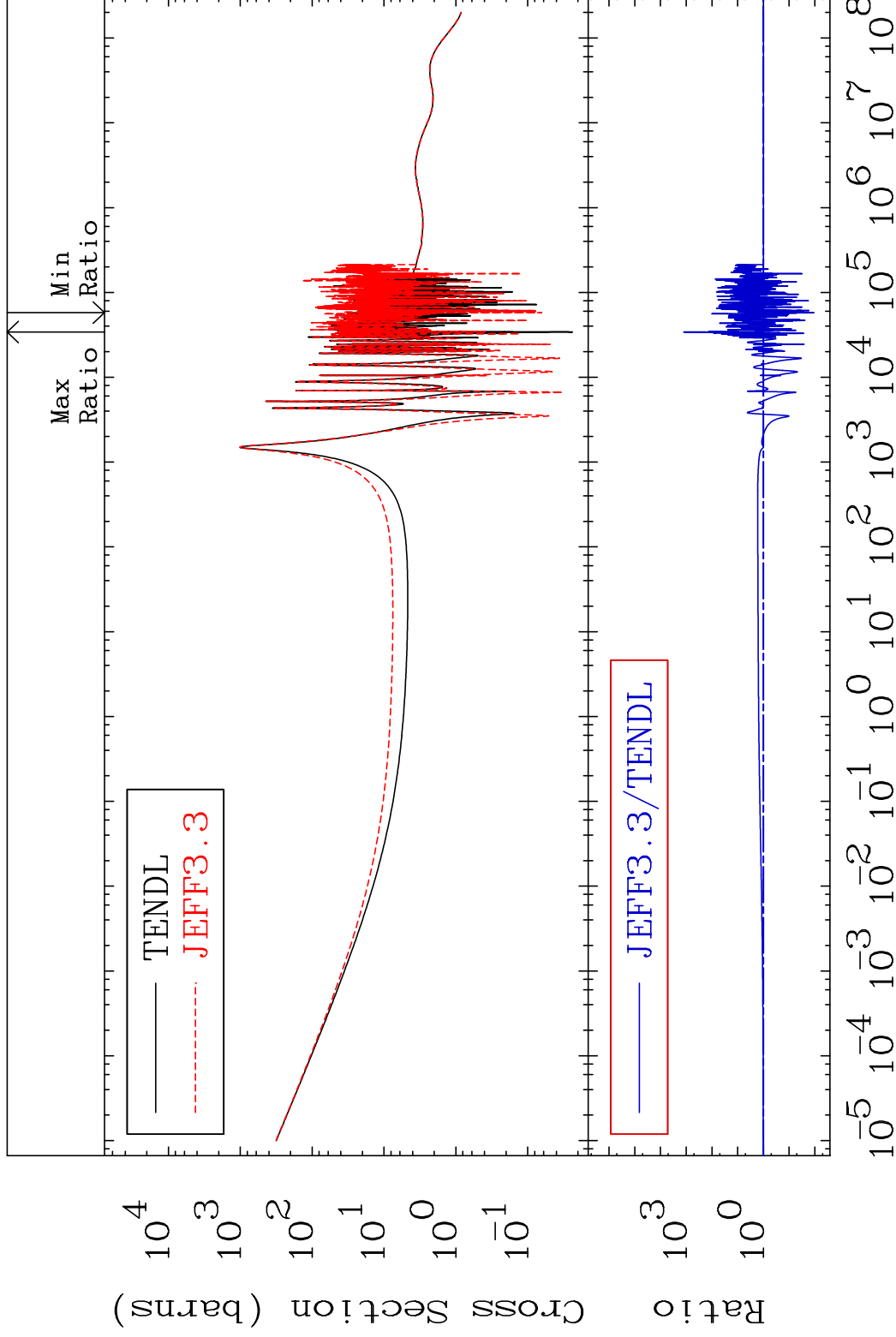
MAT 2034

Total

20-Ca-43

Cross Section

-98.93 To 9999. %



1

Incident Energy (eV)

20-Ca-43

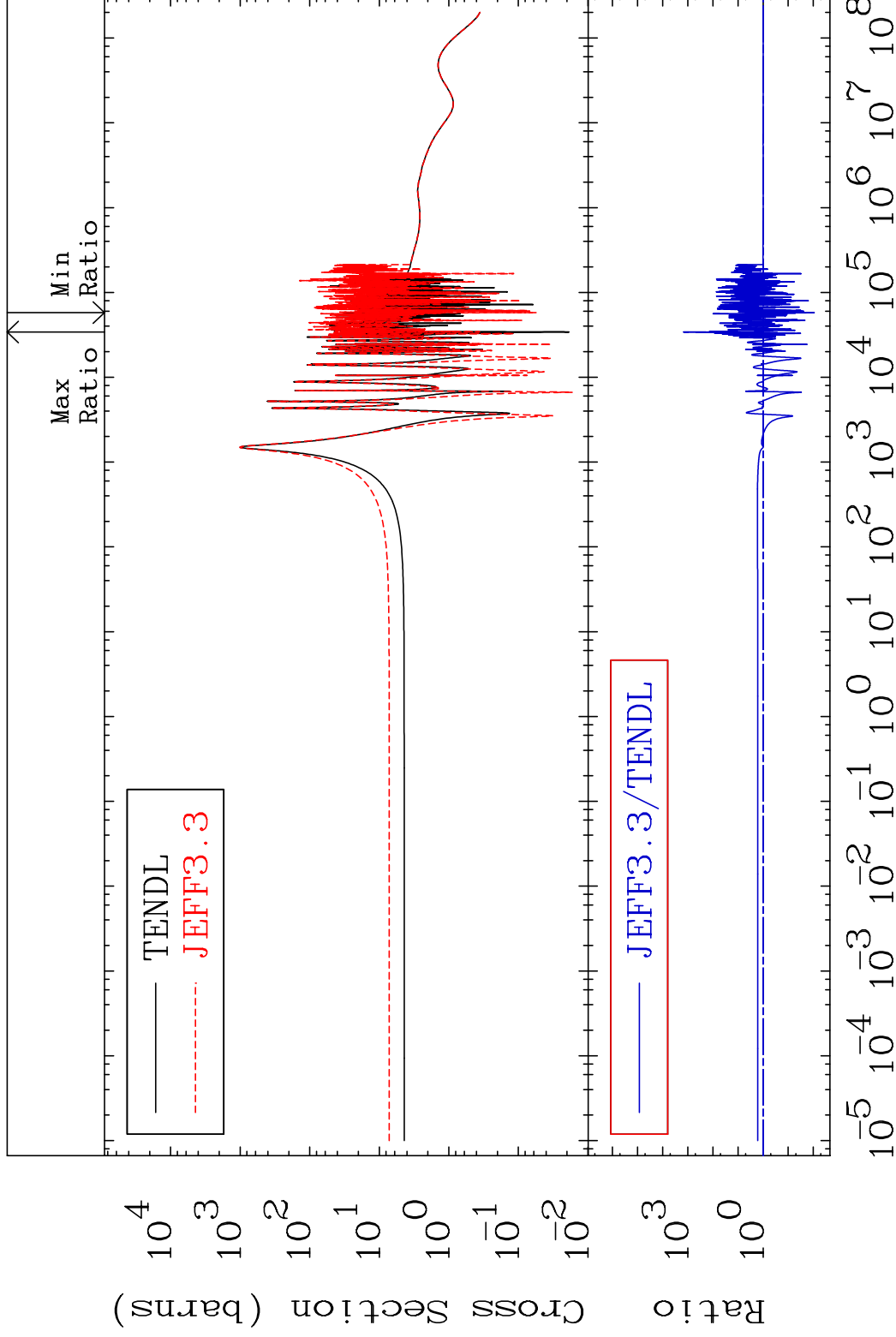
MAT 2034

Elastic

20-Ca-43

Cross Section

-99.07 To 9999. %



2

Incident Energy (eV)

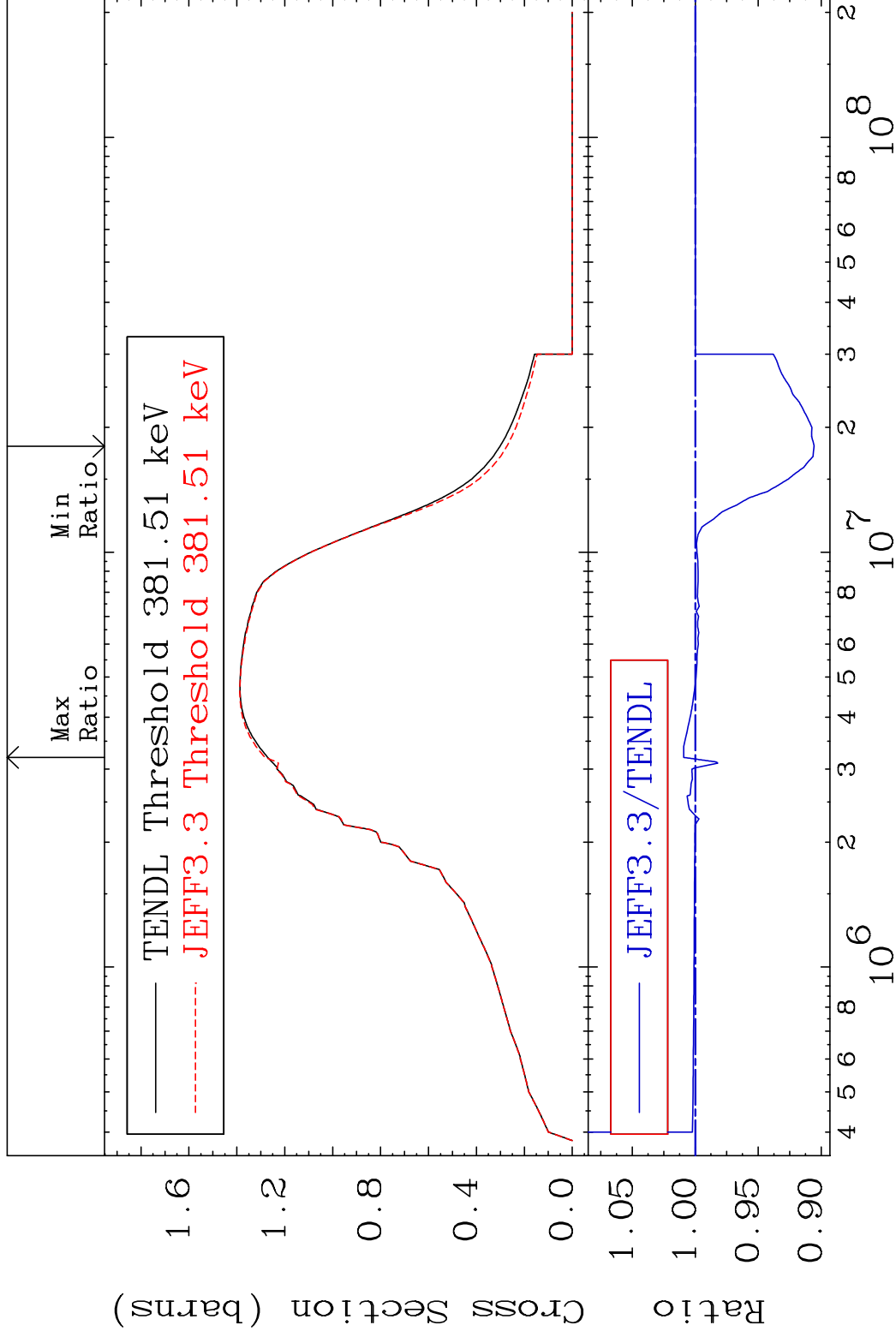
20-Ca-43

MAT 2034

Inelastic

20-Ca-43

Cross Section -9.436 To 0.919 %

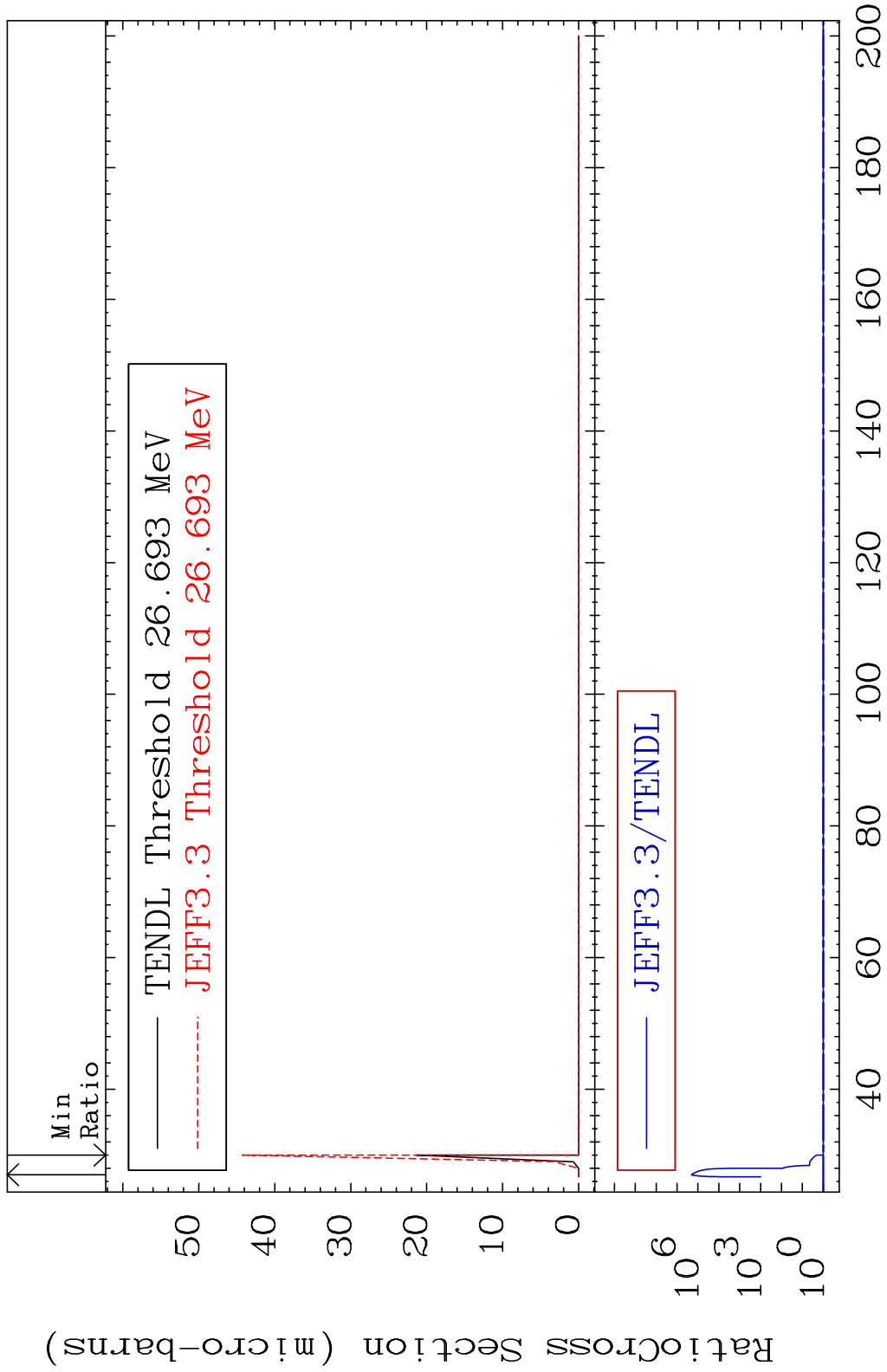


3

Incident Energy (eV)

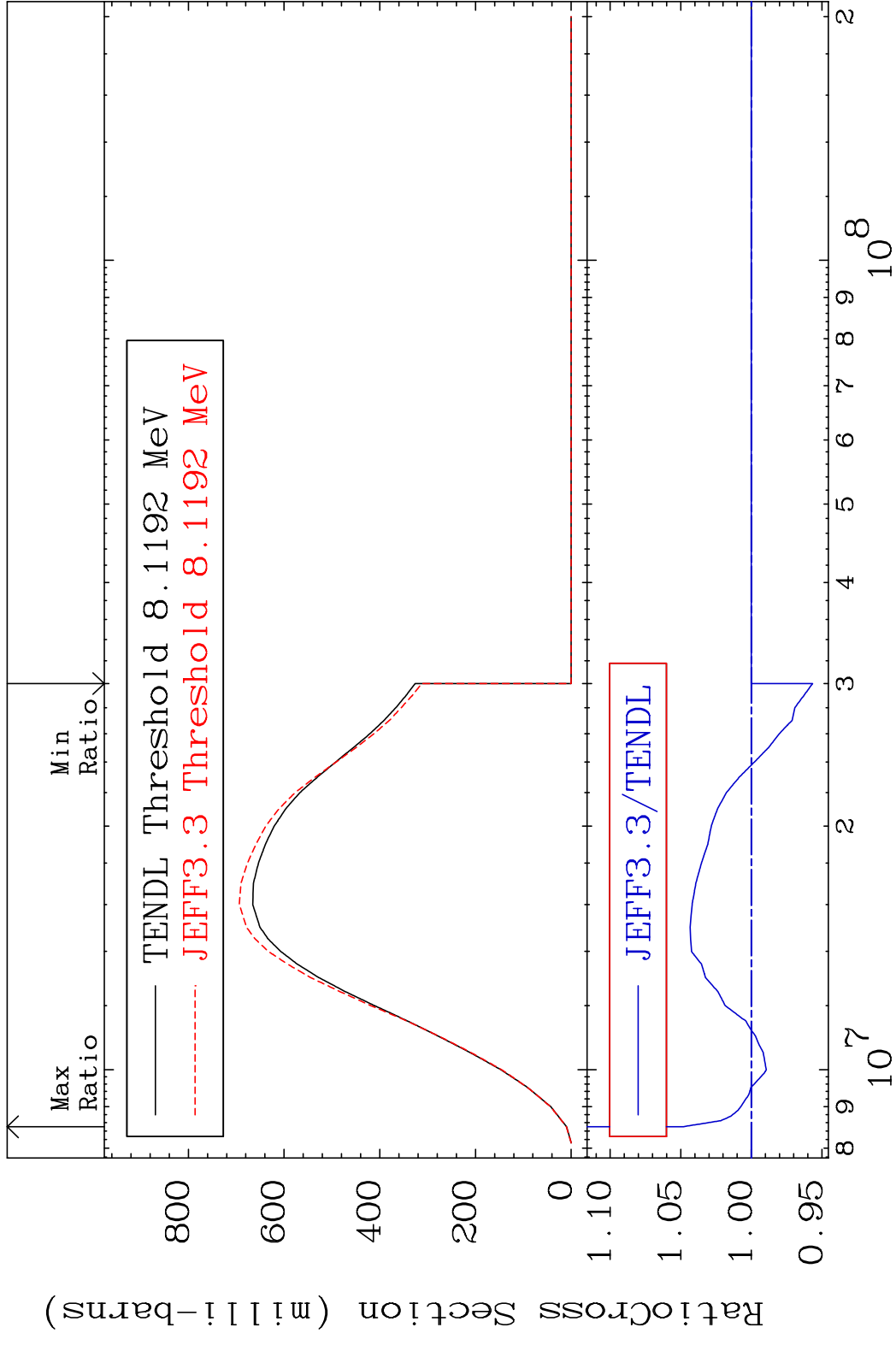
20-Ca-43

MAT 2034 (n,2n) d 20-Ca-43
Cross Section 0.000 To 9999. %



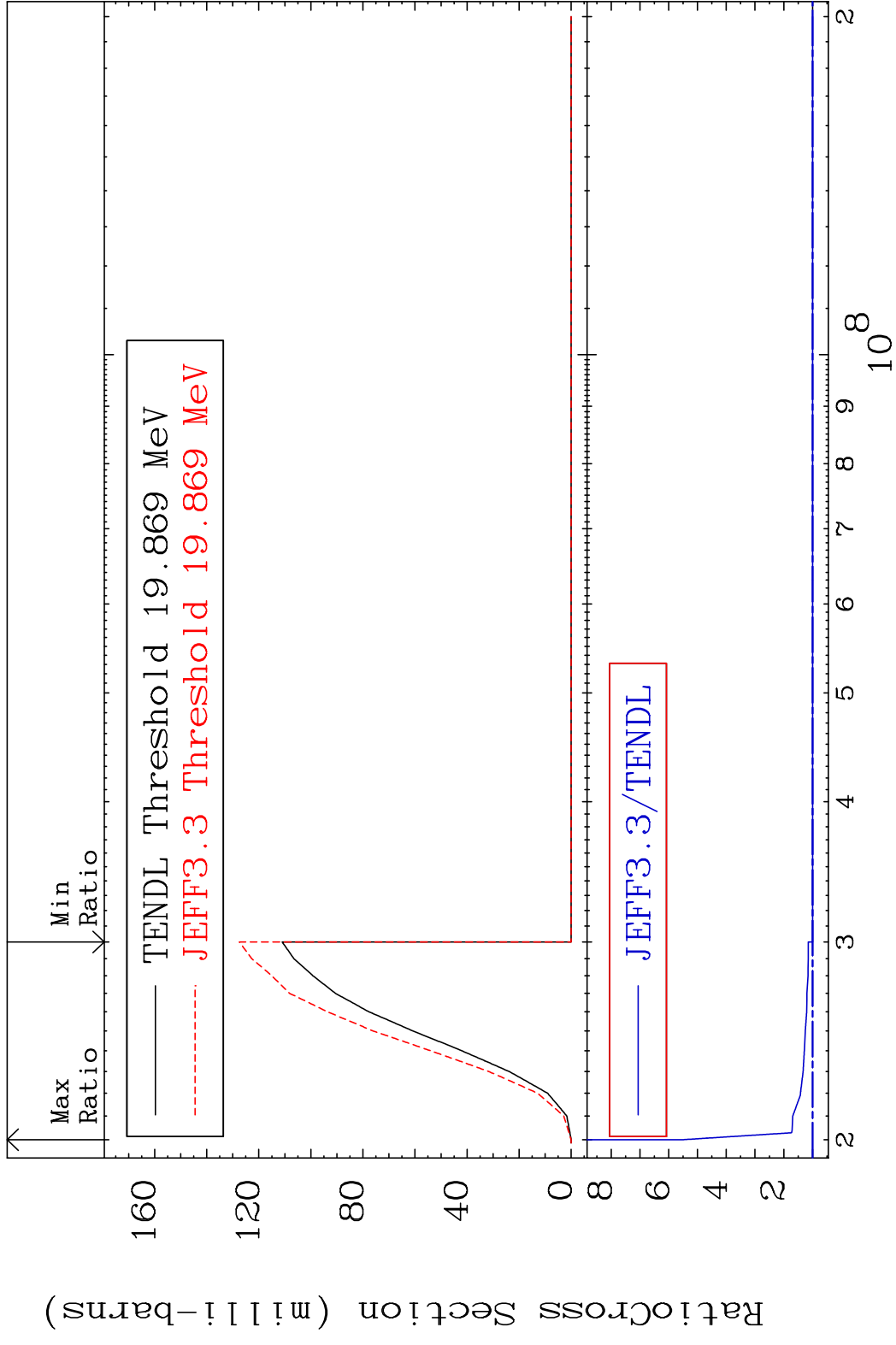
4 Incident Energy (MeV) 20-Ca-43

MAT 2034 (n,2n) 20-Ca-43
 Cross Section -4.340 To 4.886 %



5 Incident Energy (eV) 20-Ca-43

MAT 2034 (n,3n) 20-Ca-43
 Cross Section 0.000 To 452.6 %



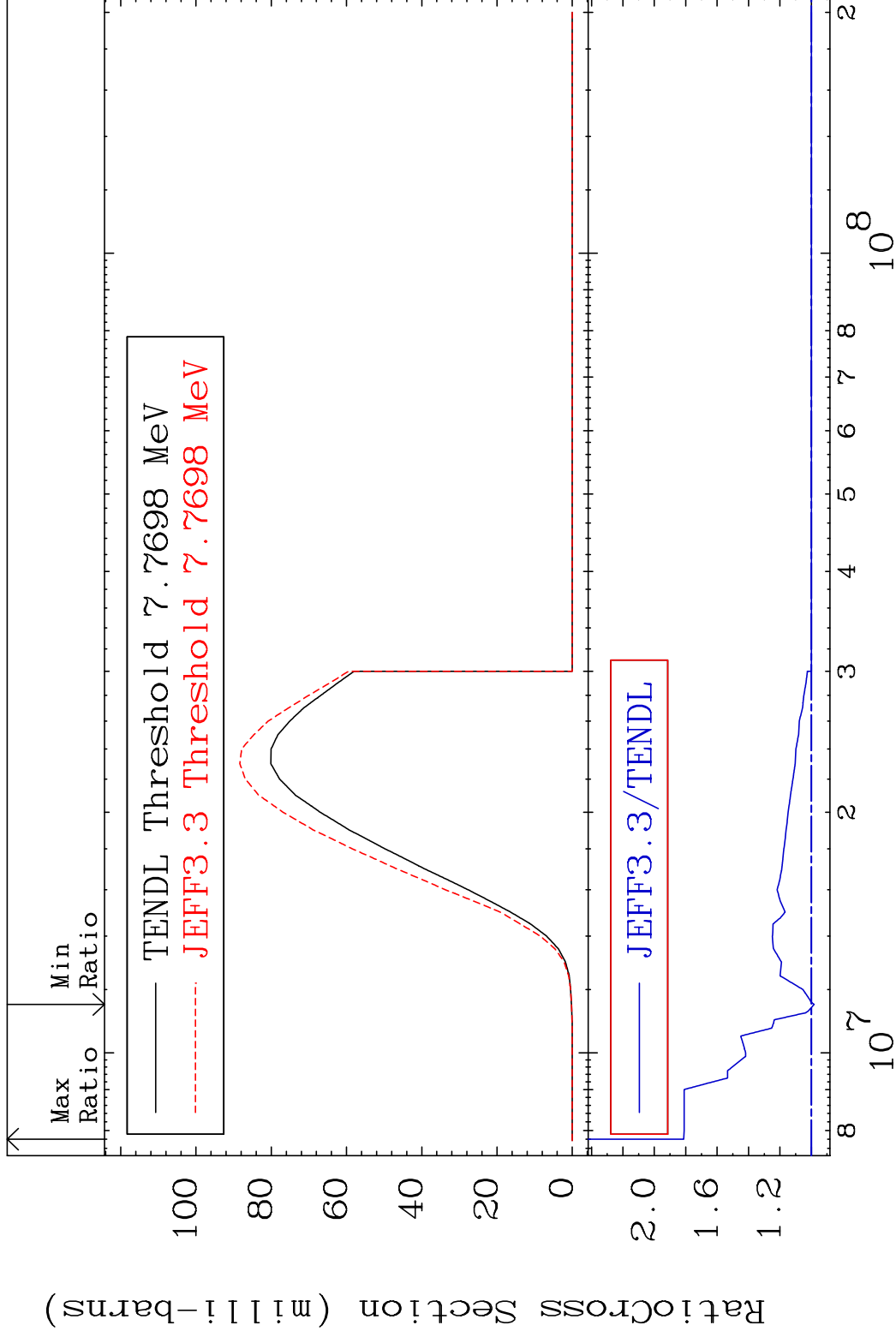
6 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

MAT 2034

(n, n') α

20-Ca-43

Cross Section -1.762 To 81.32 %



7

Incident Energy (eV)

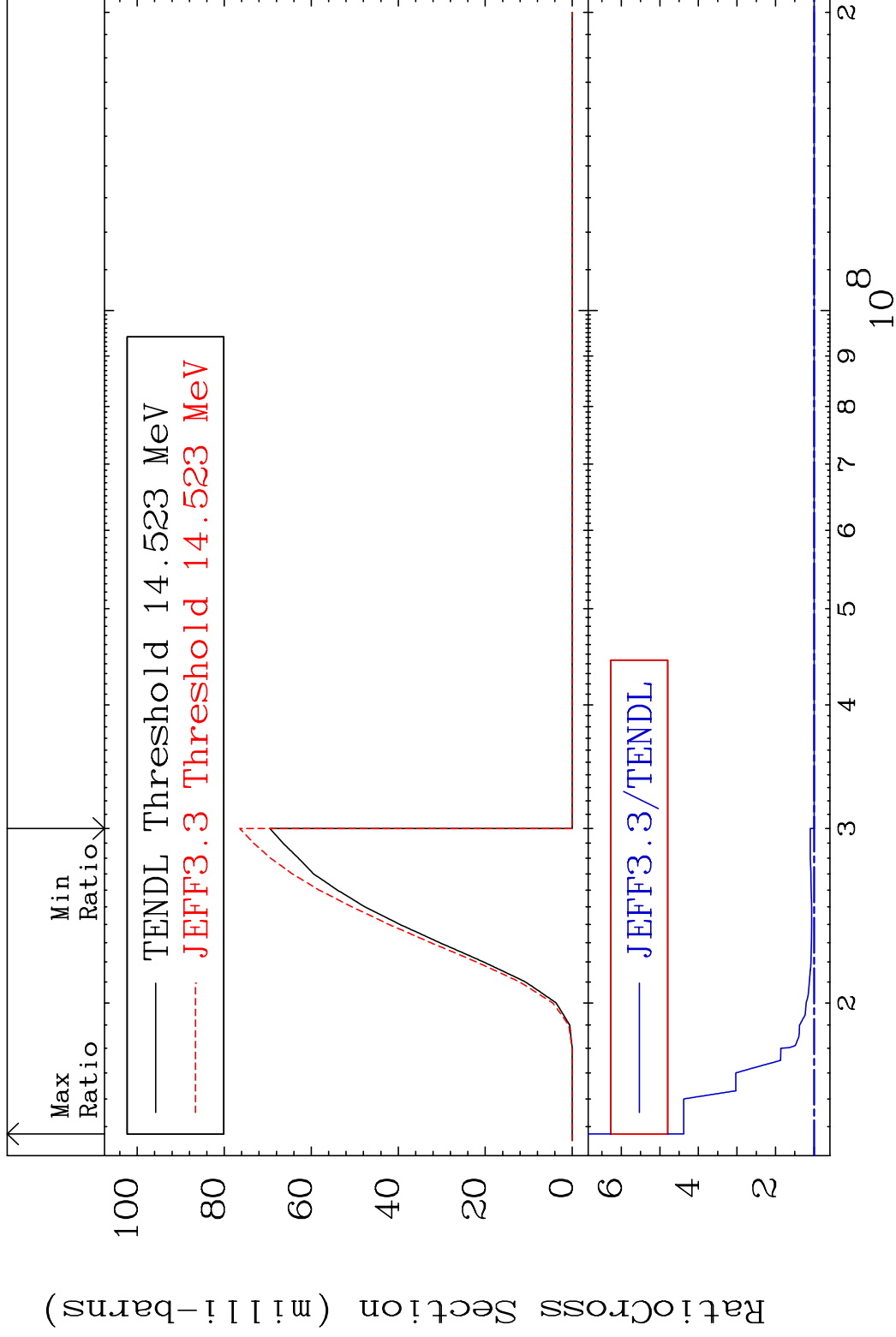
20-Ca-43

MAT 2034

(n,2n) α

20-Ca-43

Cross Section 0.000 To 338.3 %

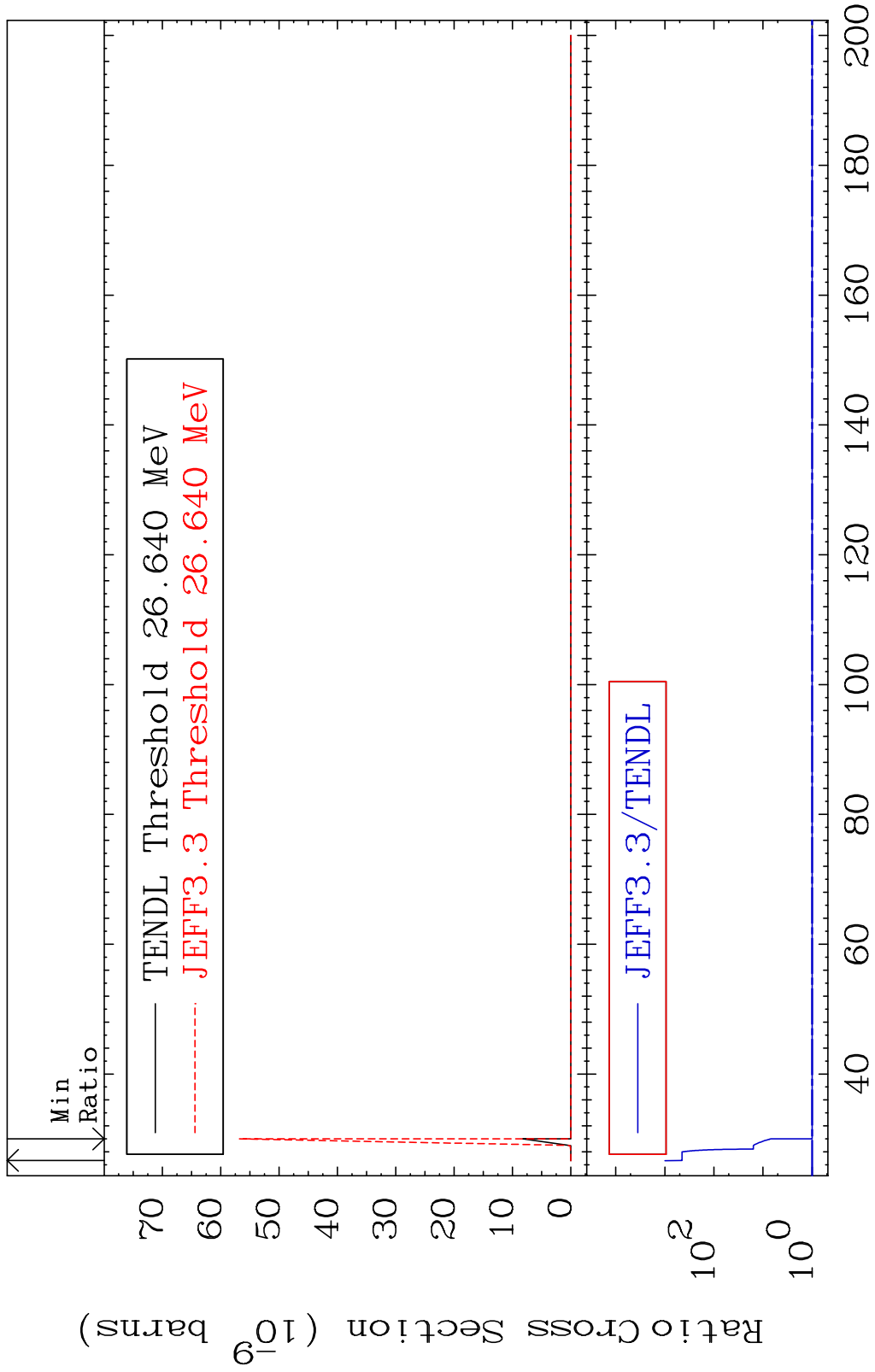


8

Incident Energy (eV)

20-Ca-43

MAT 2034 (n,3n) α 20-Ca-43
 Cross Section 0.000 To 9999. %

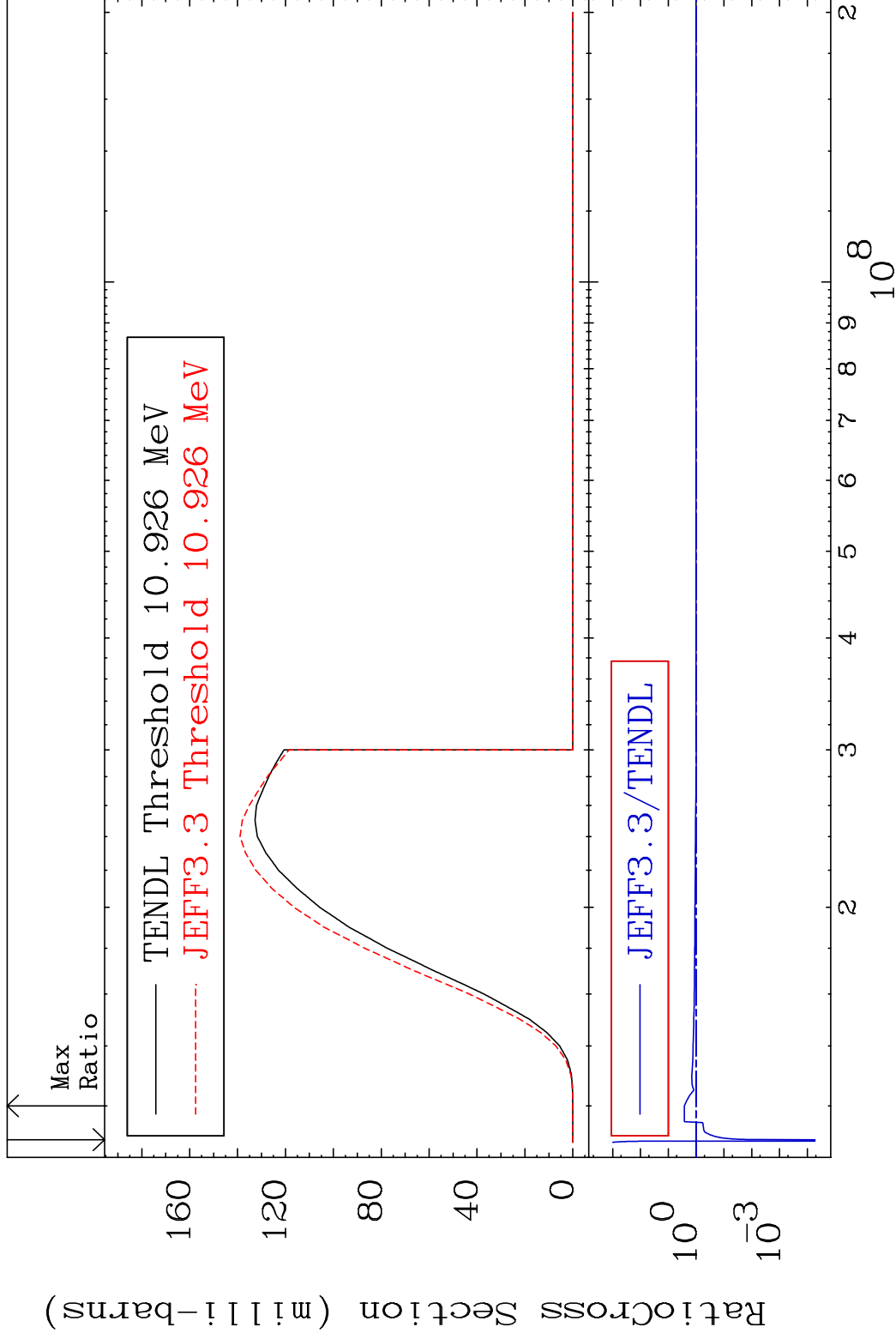


MAT 2034

(n, n') p

20-Ca-43

Cross Section -99.99 To 165.8 %

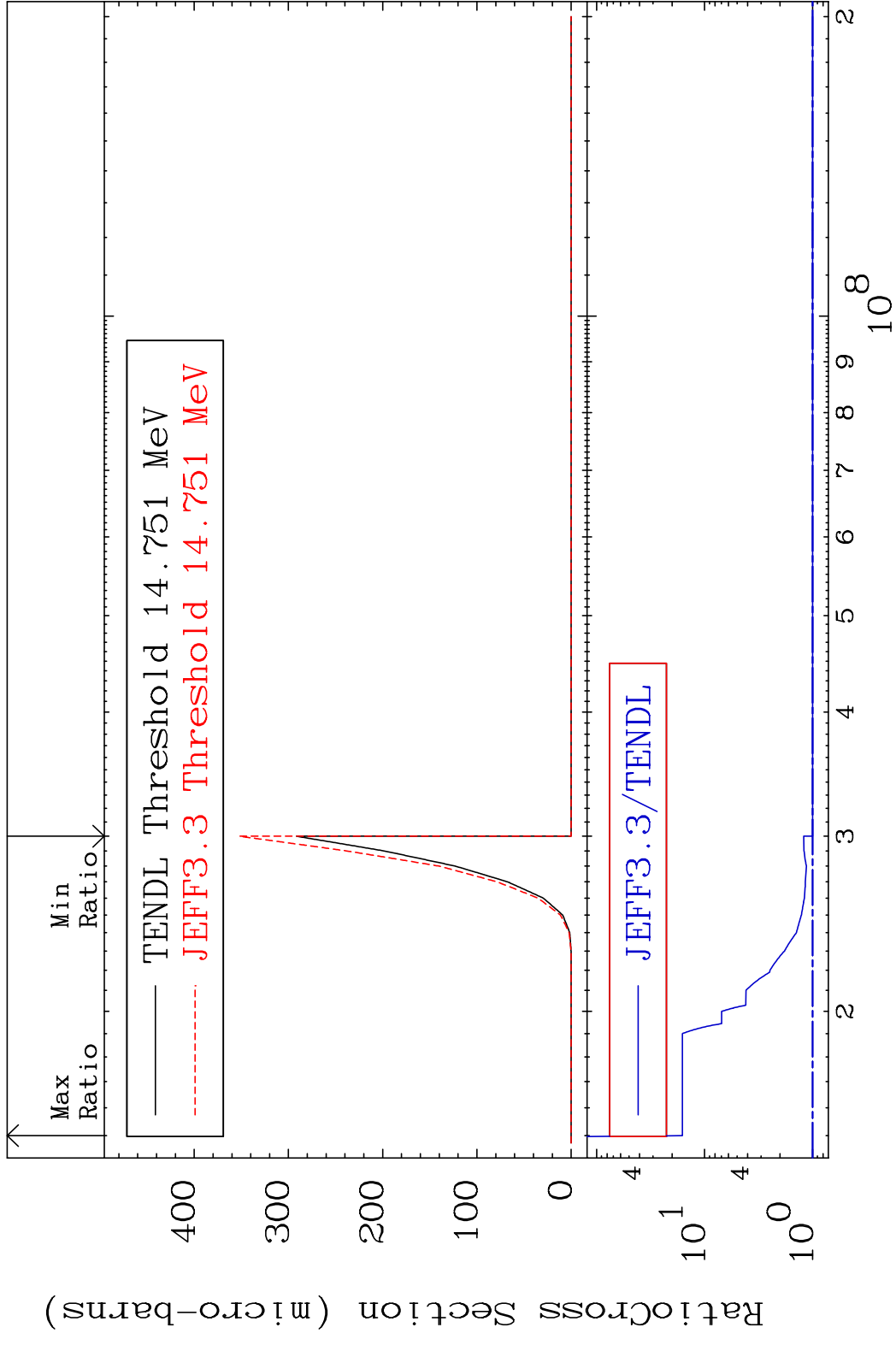


10

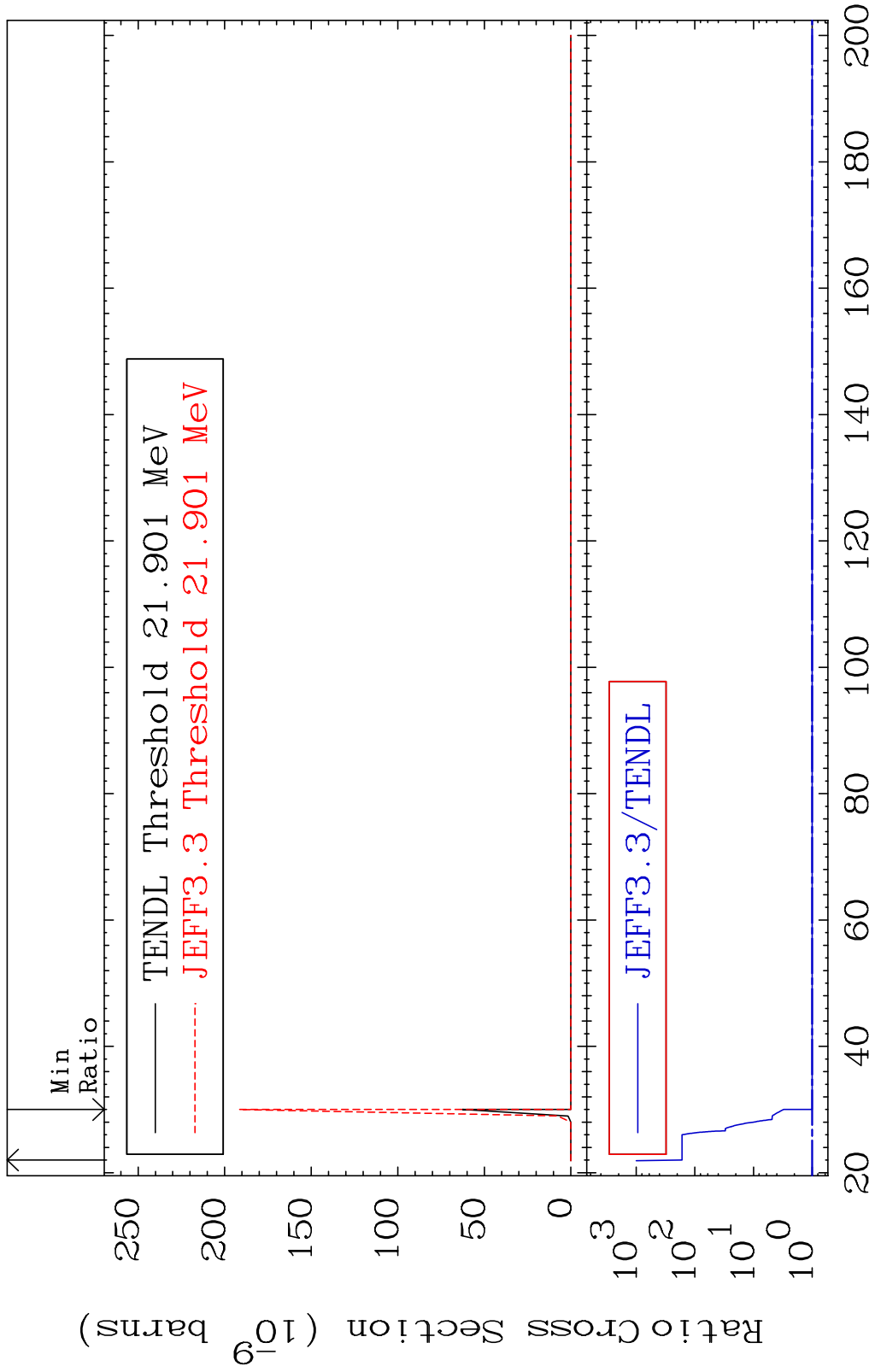
Incident Energy (eV)

20-Ca-43

MAT 2034 (n, n') 2α 20-Ca-43
 Cross Section 0.000 To 1506. %

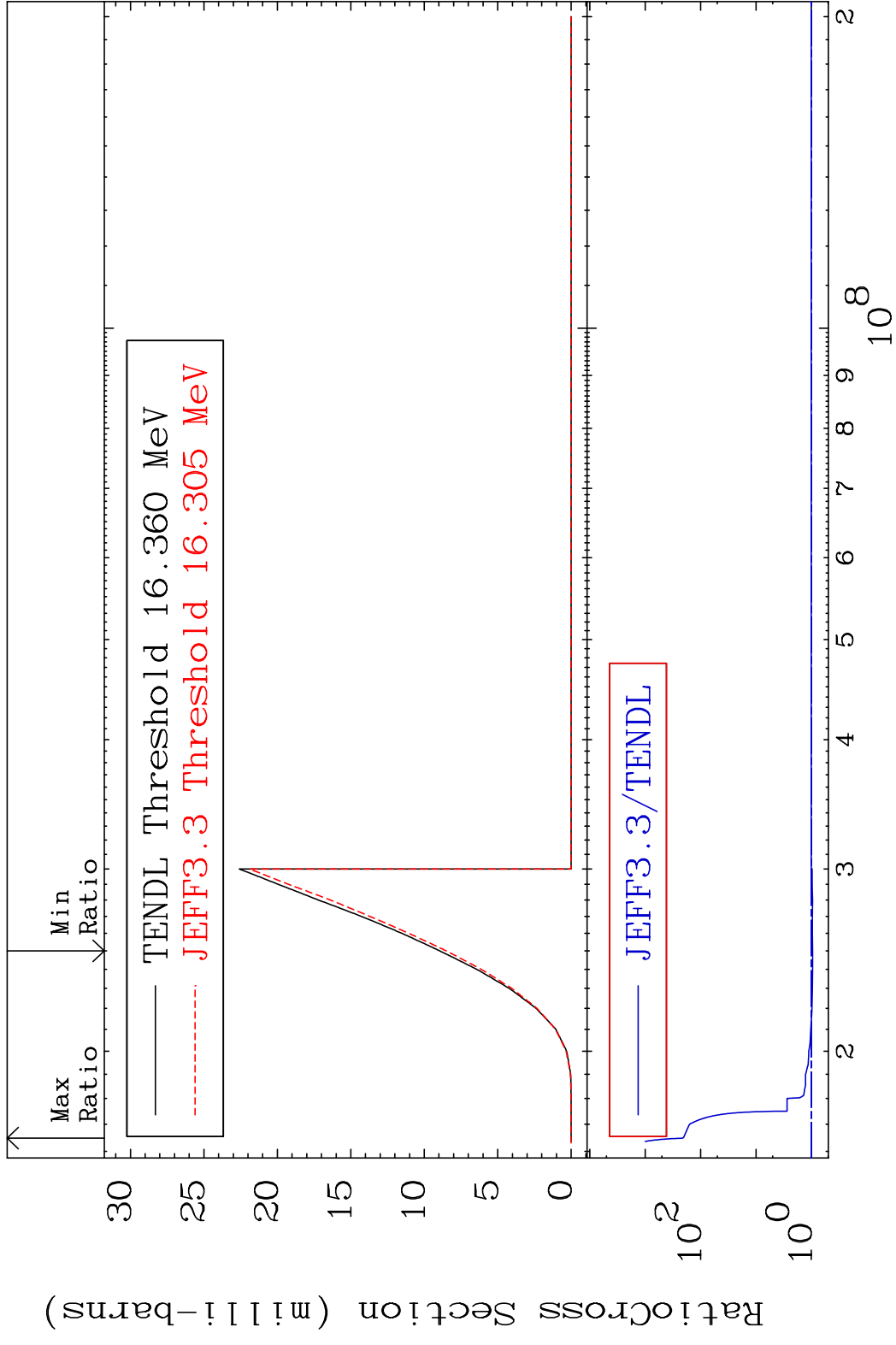


MAT 2034 (n,2n) 2α 20-Ca-43
 Cross Section 0.000 To 9999. %



12 Incident Energy (MeV) 20-Ca-43

MAT 2034 (n, n') d 20-Ca-43
 Cross Section -4.937 To 9999. %

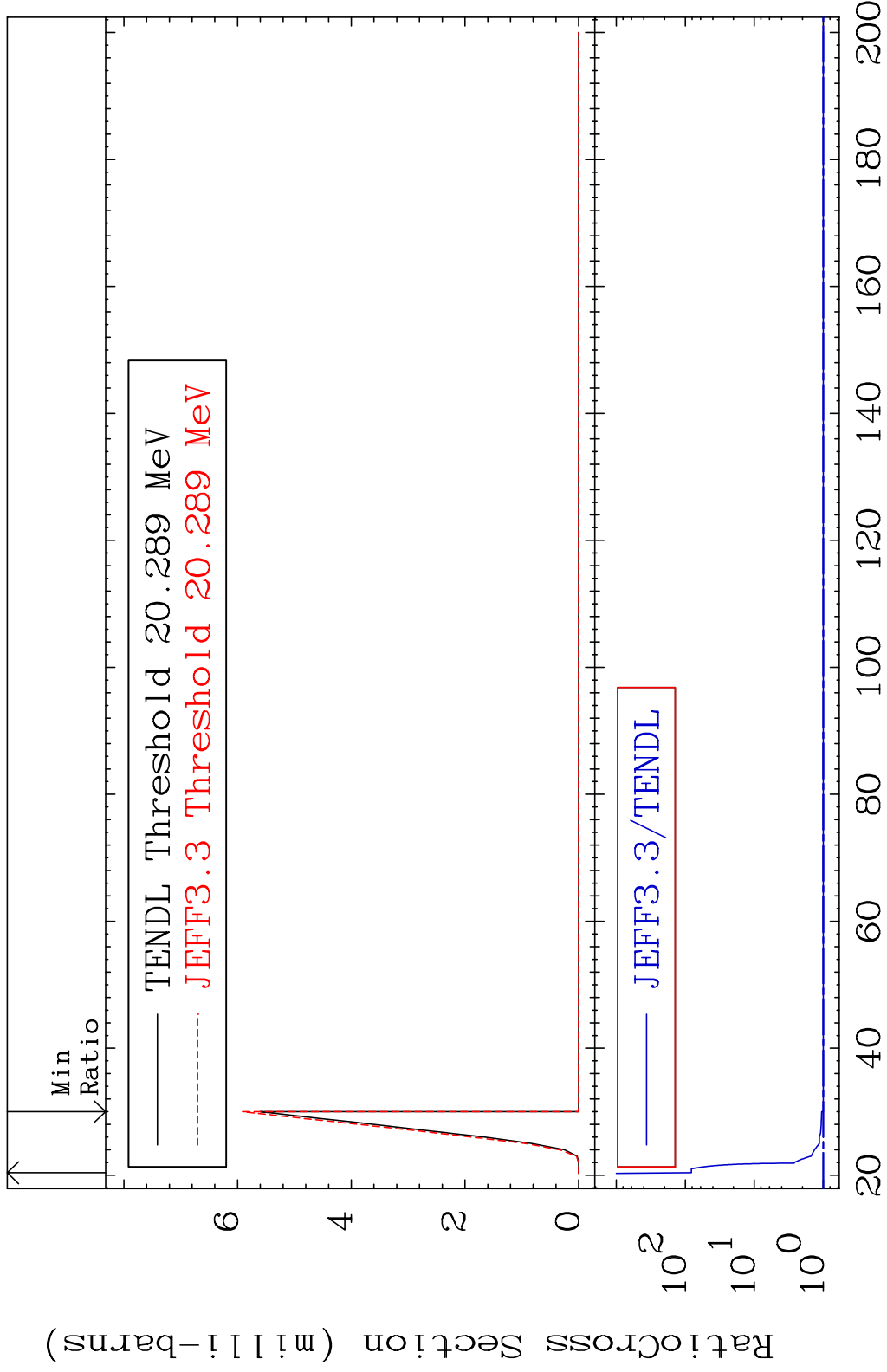


MAT 2034

(n, n') t

20-Ca-43

Cross Section 0.000 To 8074. %



14

Incident Energy (MeV)

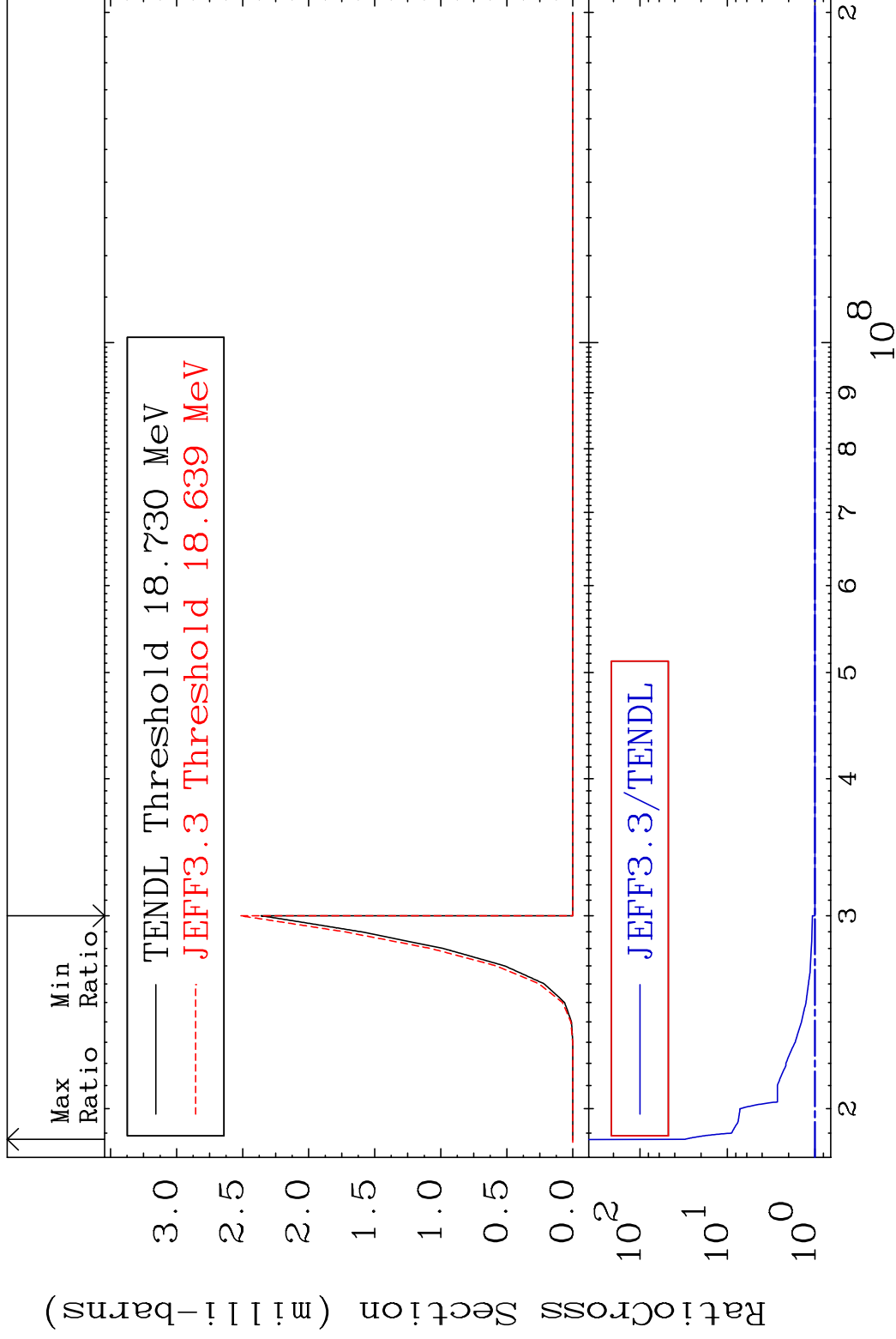
20-Ca-43

MAT 2034

(n,n') He-3

20-Ca-43

Cross Section 0.000 To 3007. %

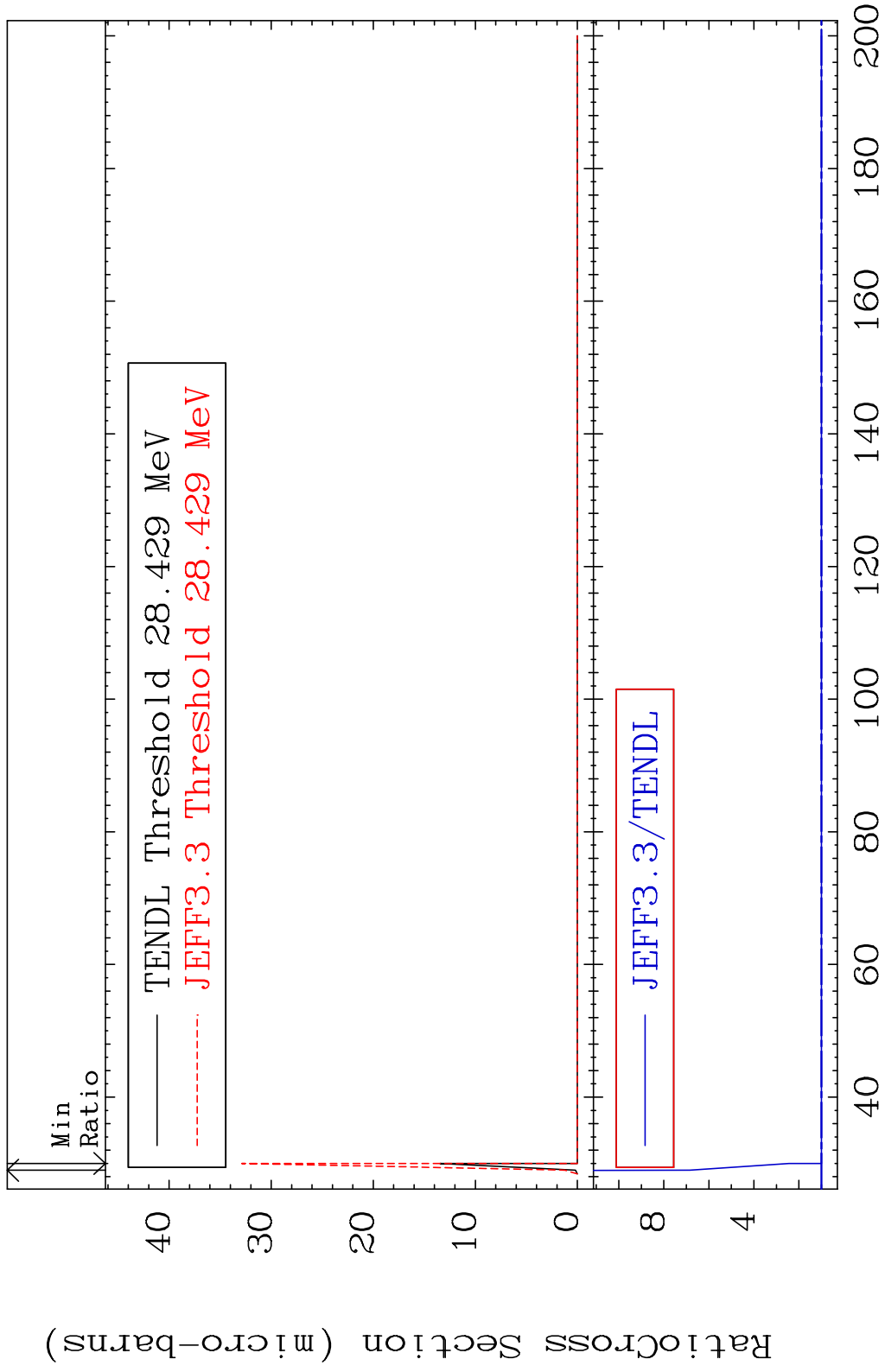


15

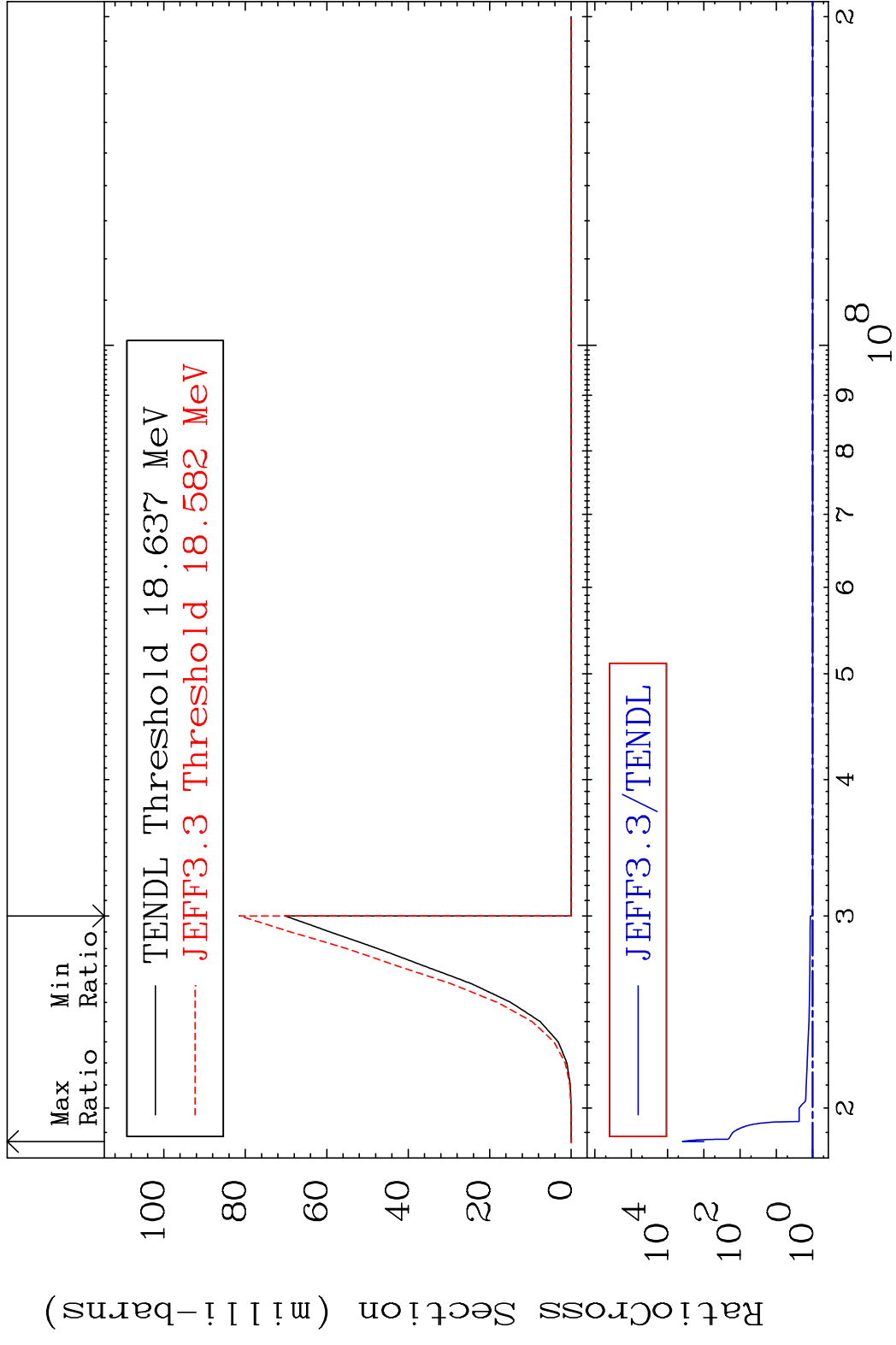
Incident Energy (eV)

20-Ca-43

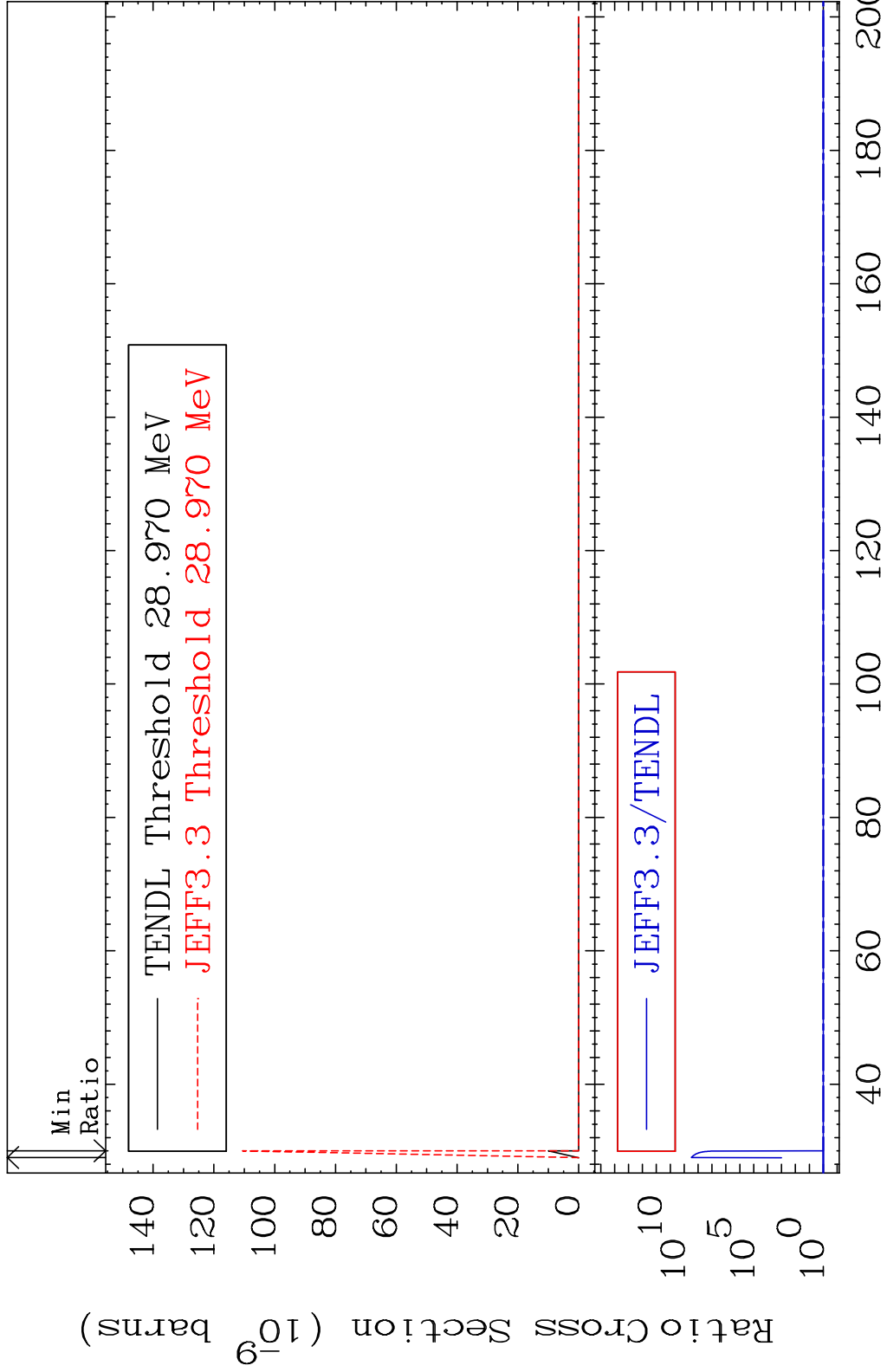
MAT 2034 (n,4n) 20-Ca-43
Cross Section 0.000 To 584.8 %



MAT 2034 (n,2n) p 20-Ca-43
 Cross Section 0.000 To 9999. %



MAT 2034 (n,3n) p 20-Ca-43
 Cross Section 0.000 To 9999. %

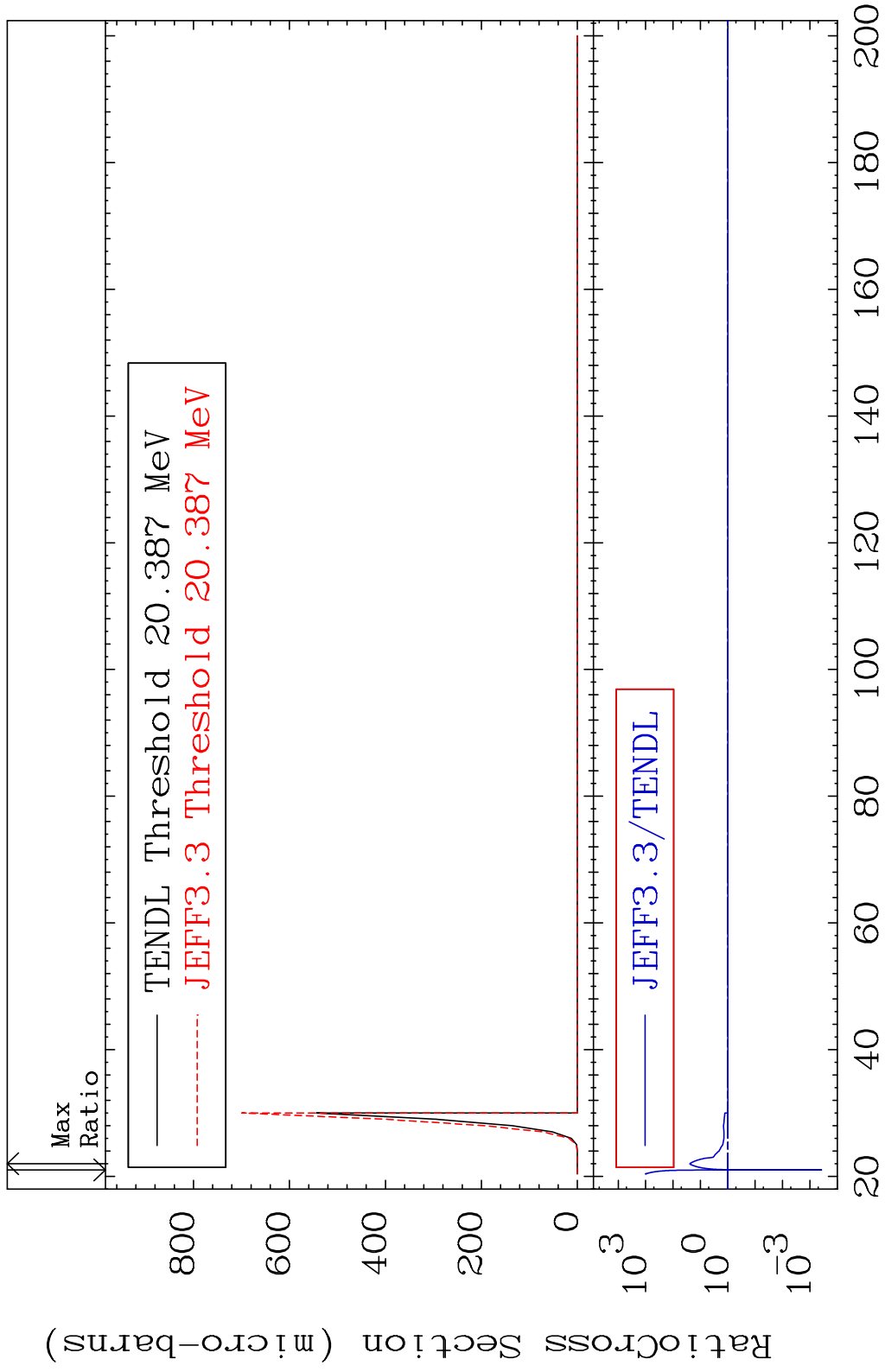


MAT 2034

(n,2n) p

20-Ca-43

Cross Section -99.96 To 2343. %

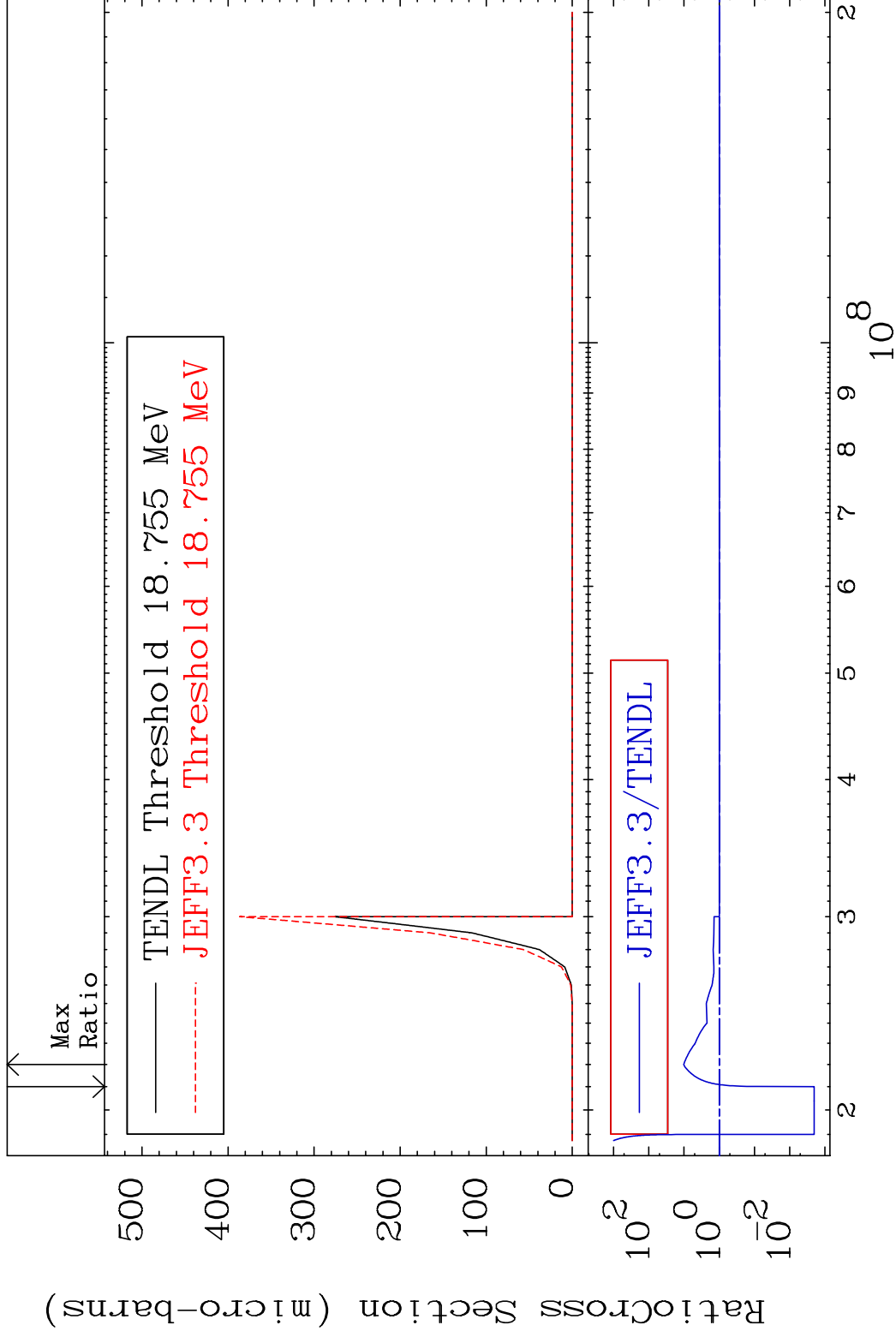


MAT 2034

(n,n') p α

20-Ca-43

Cross Section -99.80 To 923.4 %

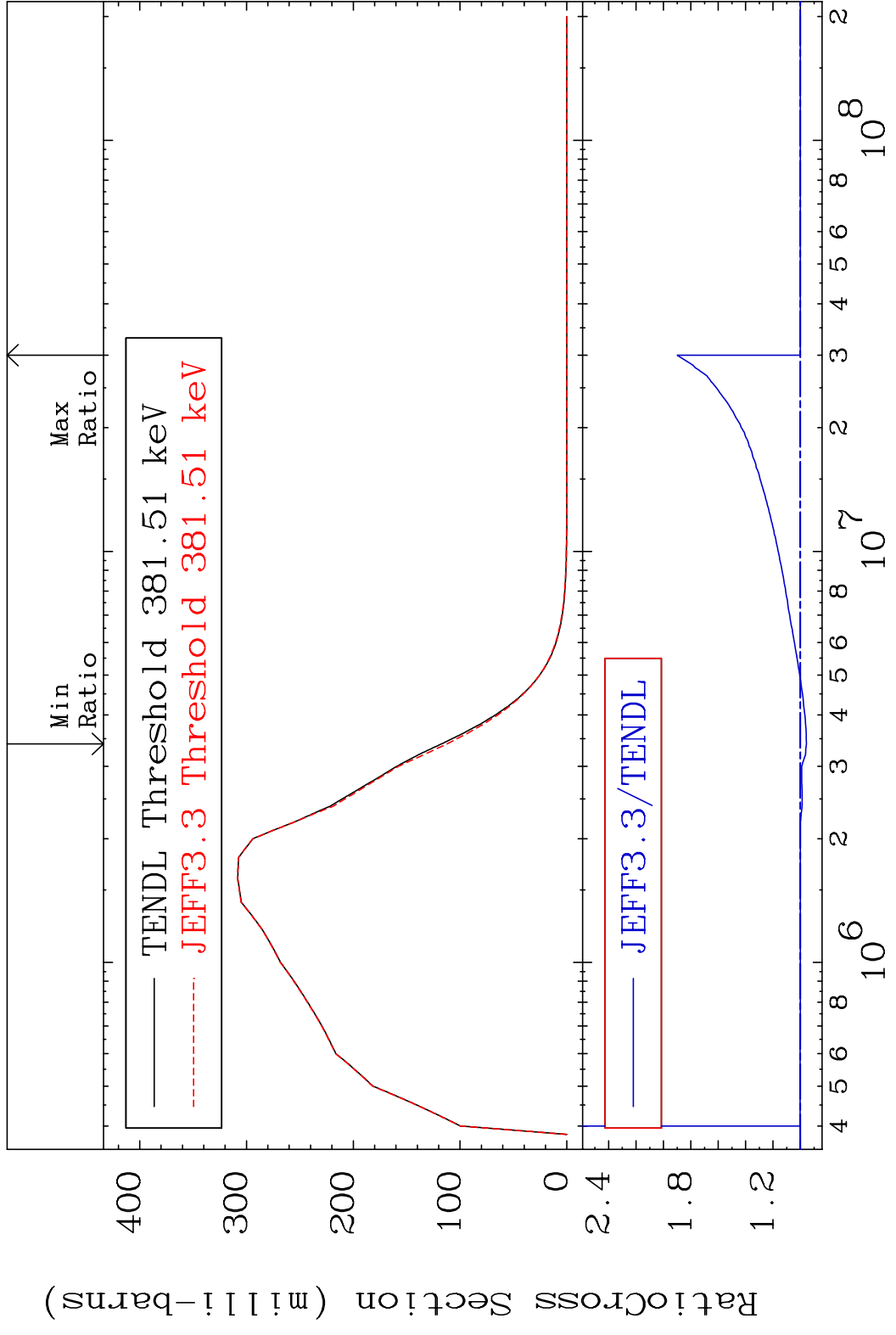


20

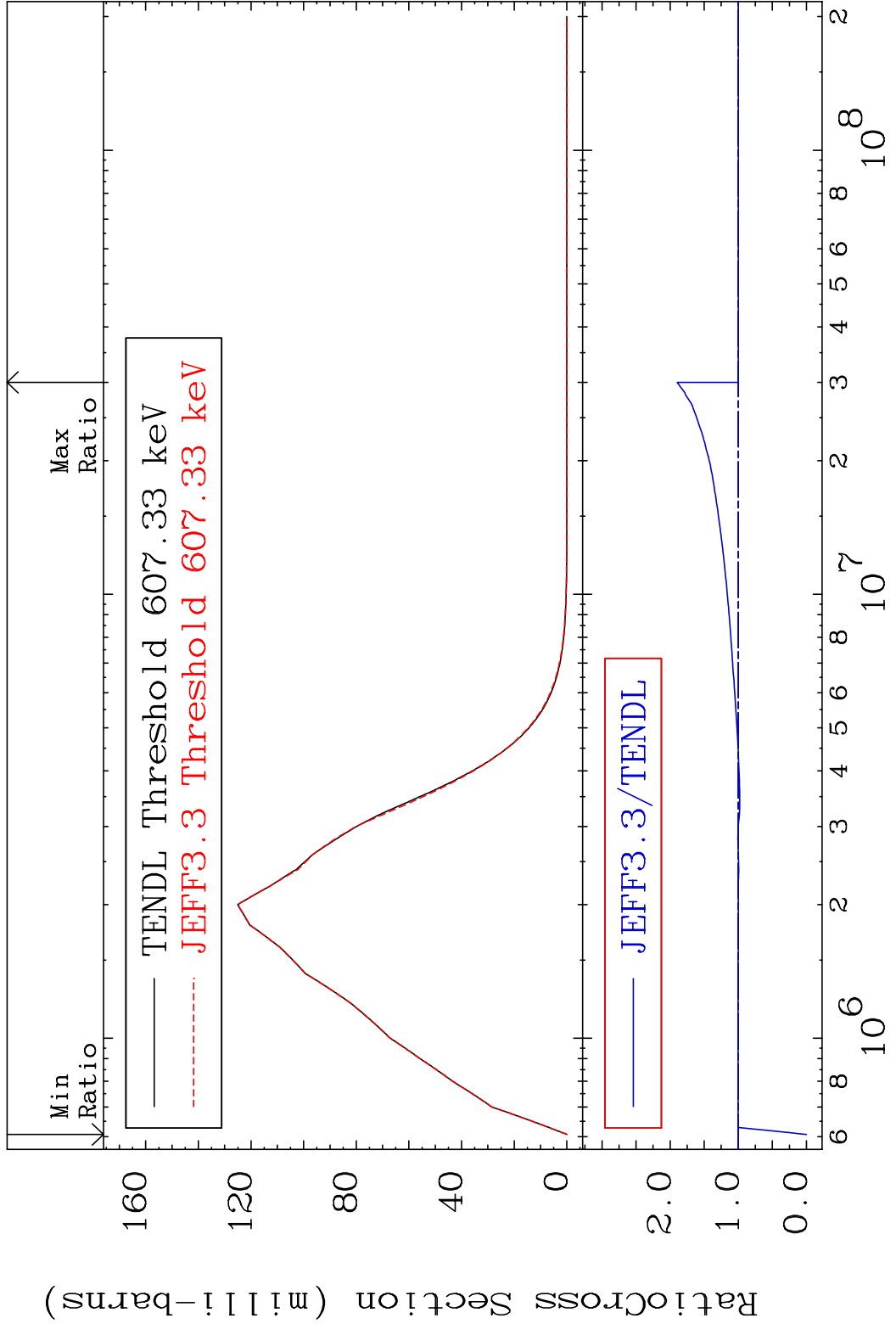
Incident Energy (eV)

20-Ca-43

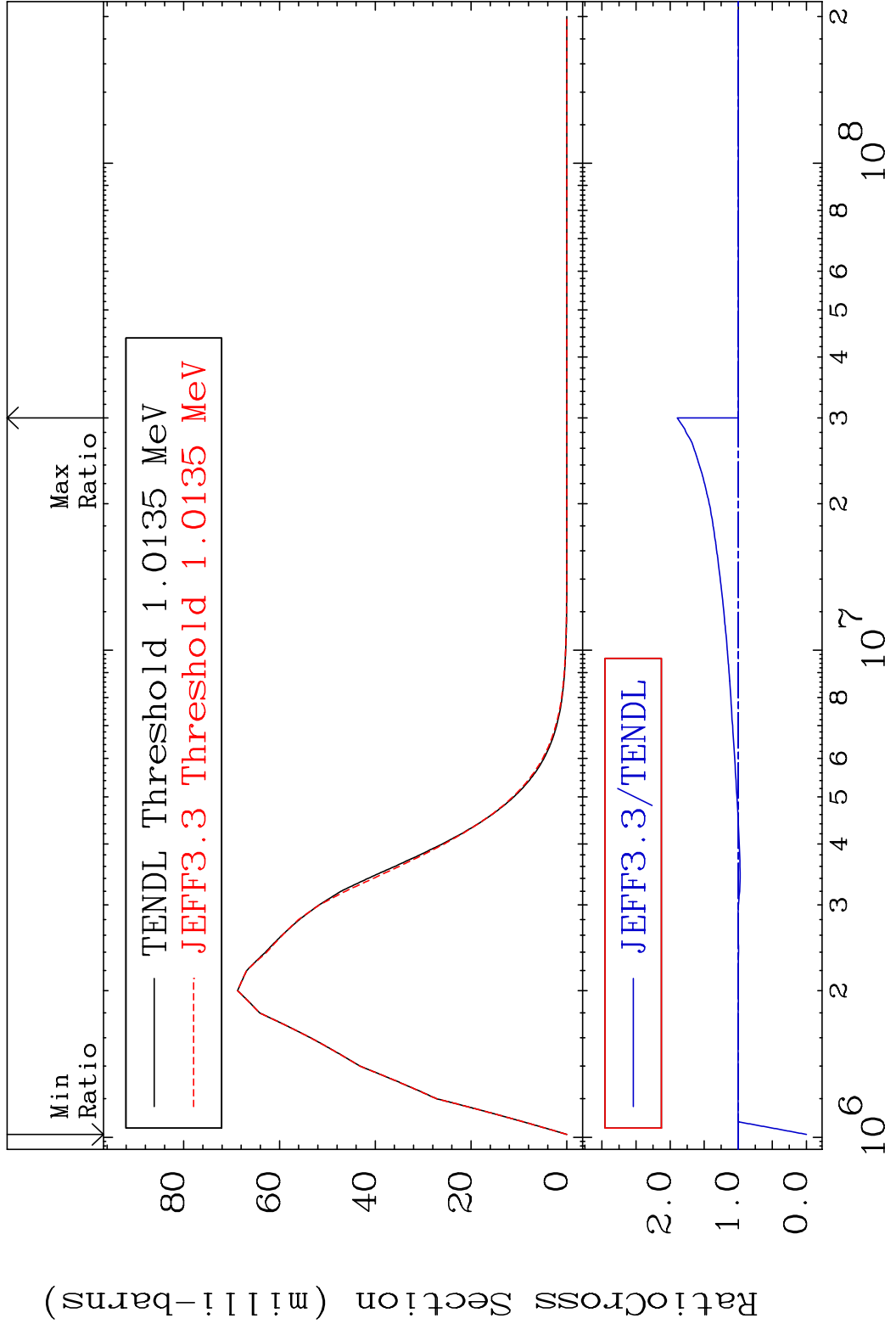
MAT 2034 MT= 51 (n, n') Level 20-Ca-43
 Cross Section -4.368 To 89.96 %



MAT 2034 MT= 52 (n, n') Level 20-Ca-43
 Cross Section -100.0 To 89.63 %

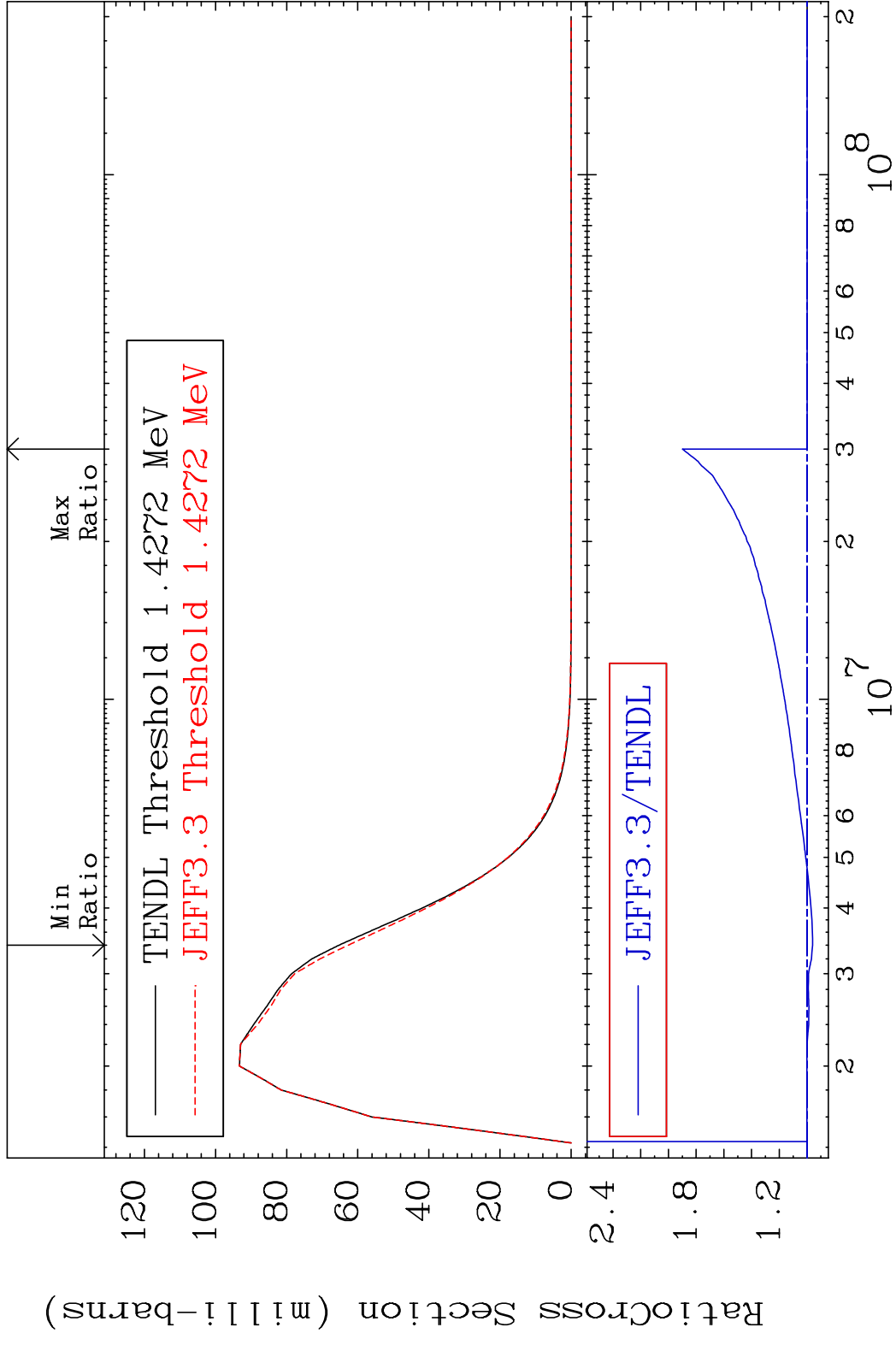


MAT 2034 MT= 53 (n, n') Level 20-Ca-43
 Cross Section -100.0 To 89.59 %

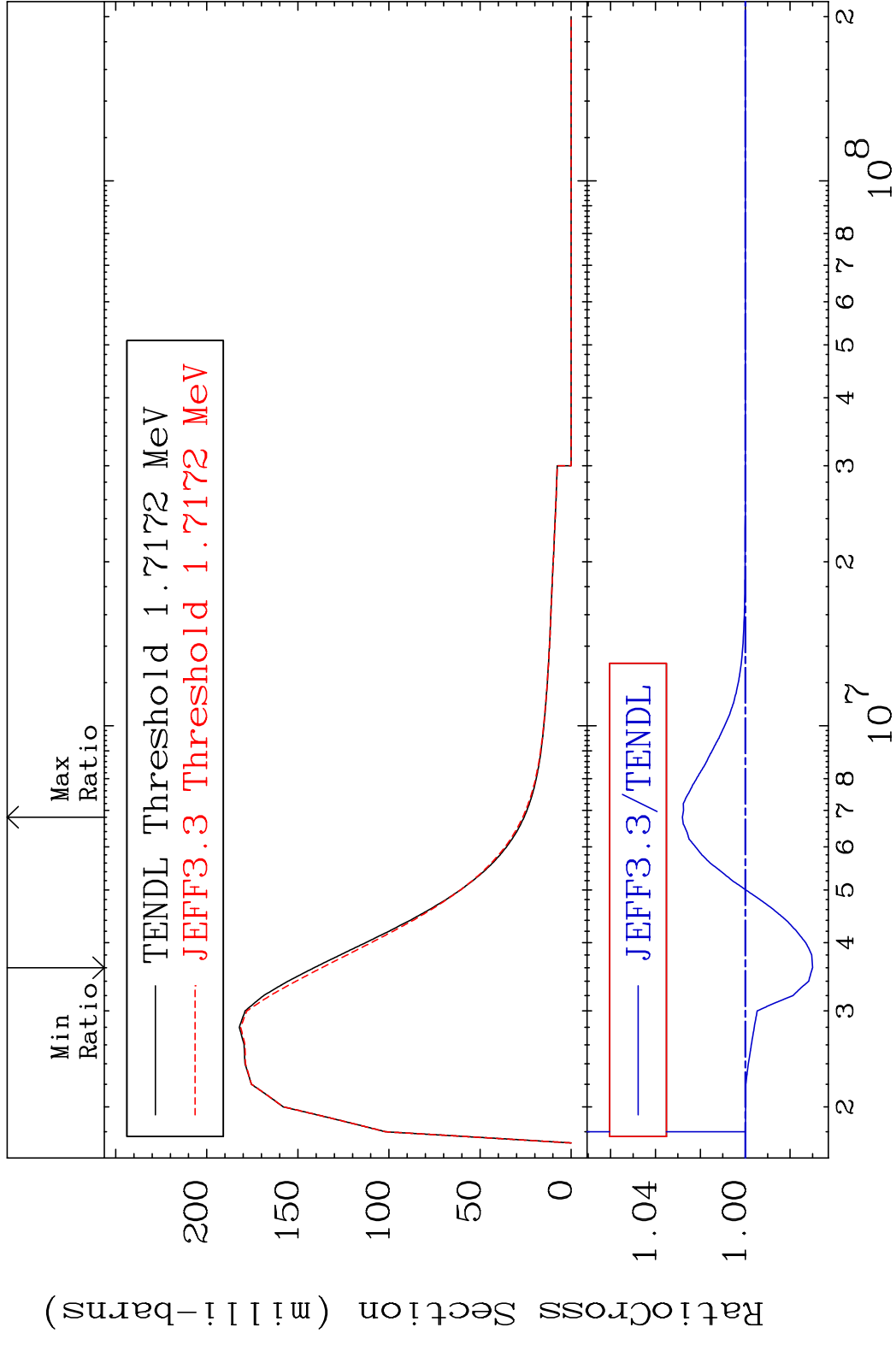


23 Incident Energy (eV) 20-Ca-43

MAT 2034 MT= 54 (n,n') Level 20-Ca-43
 Cross Section -3.992 To 89.96 %

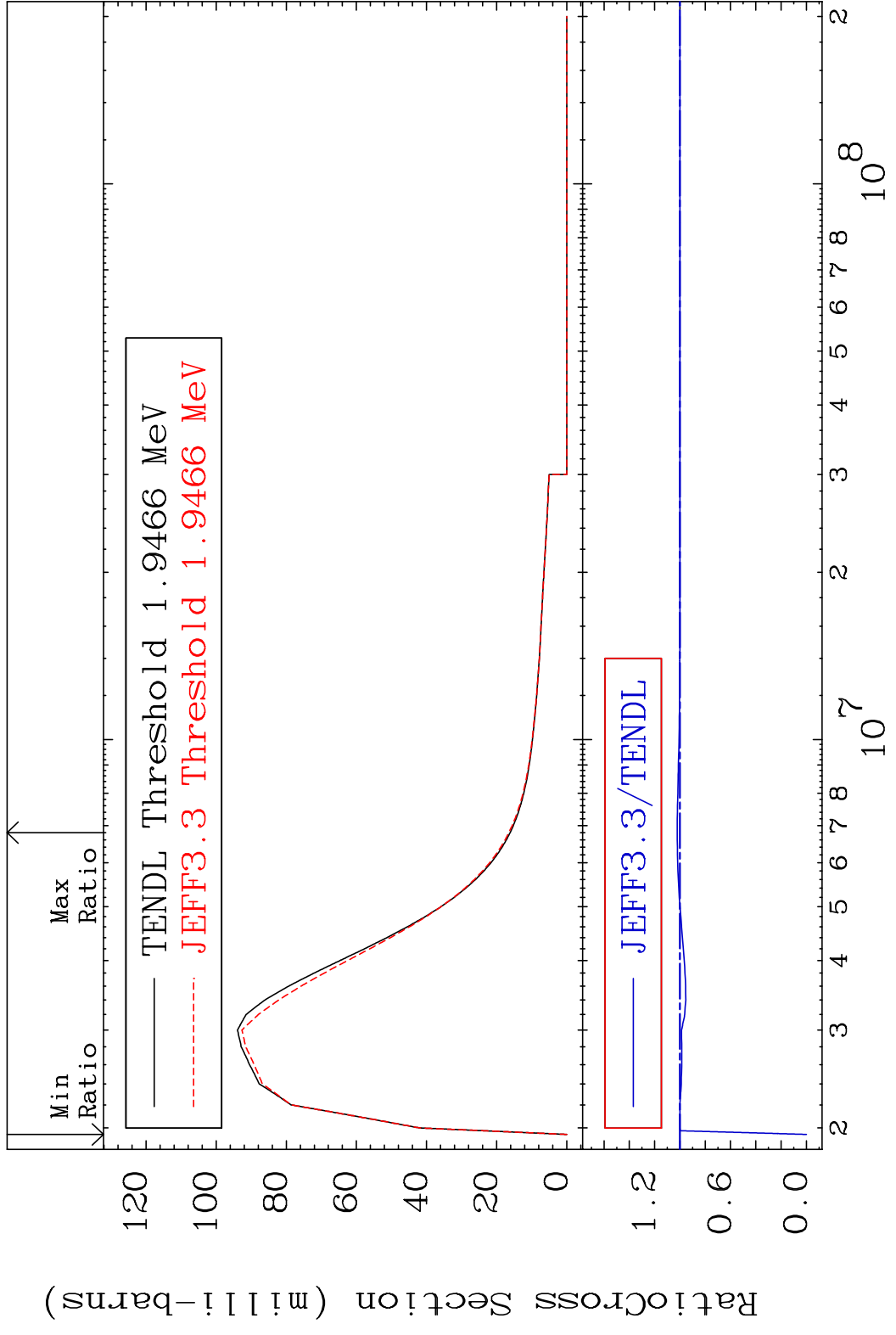


MAT 2034 MT= 55 (n,n') Level 20-Ca-43
 Cross Section -3.000 To 2.803 %



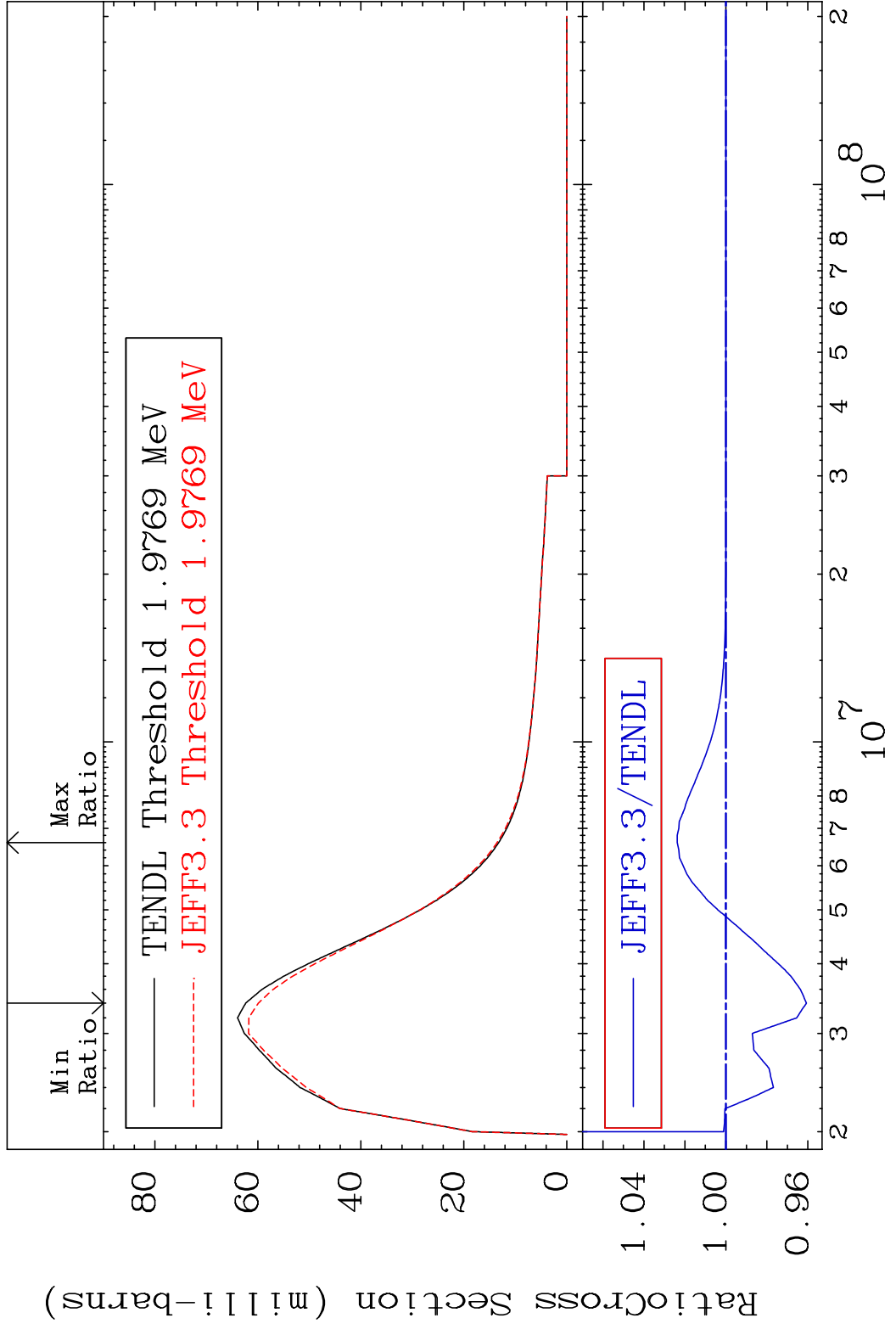
25 Incident Energy (eV) 20-Ca-43

MAT 2034 MT= 56 (n,n') Level 20-Ca-43
 Cross Section -100.0 To 2.165 %

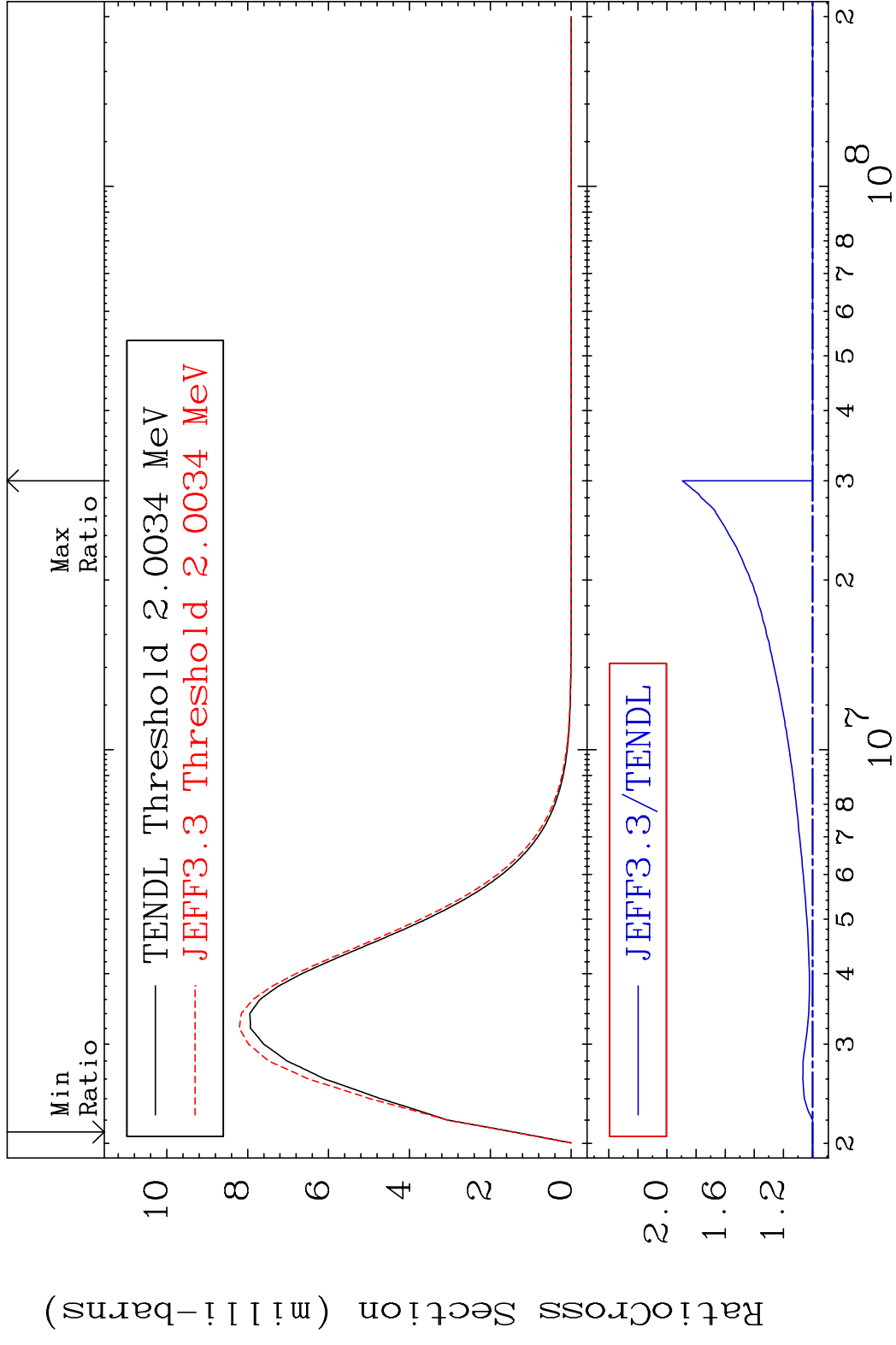


26 Incident Energy (eV) 20-Ca-43

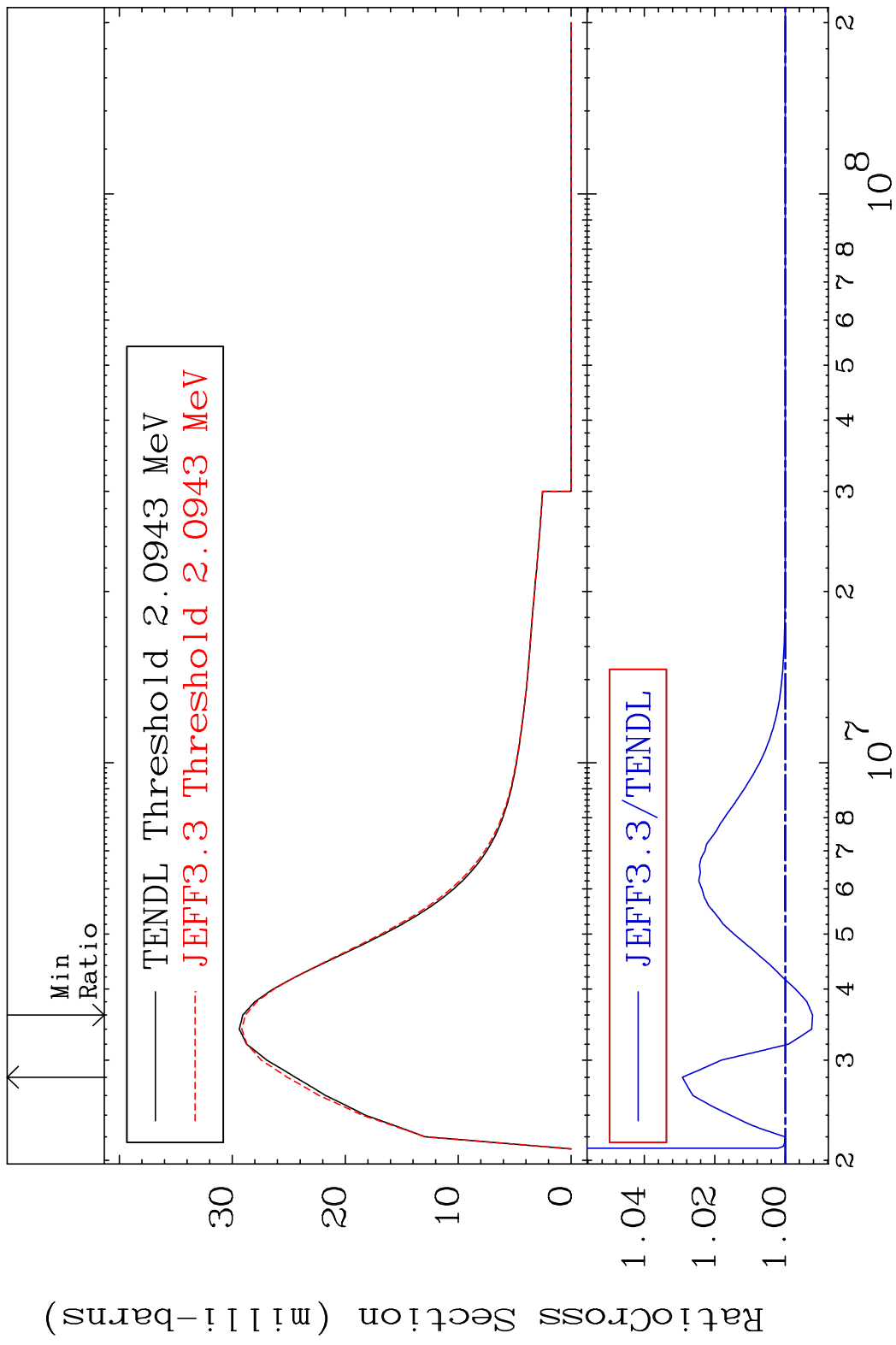
MAT 2034 MT= 57 (n, n') Level 20-Ca-43
 Cross Section -3.927 To 2.375 %



MAT 2034 MT= 58 (n, n') Level 20-Ca-43
 Cross Section -0.021 To 89.43 %



MAT 2034 MT= 59 (n, n') Level 20-Ca-43
 Cross Section -0.772 To 2.921 %

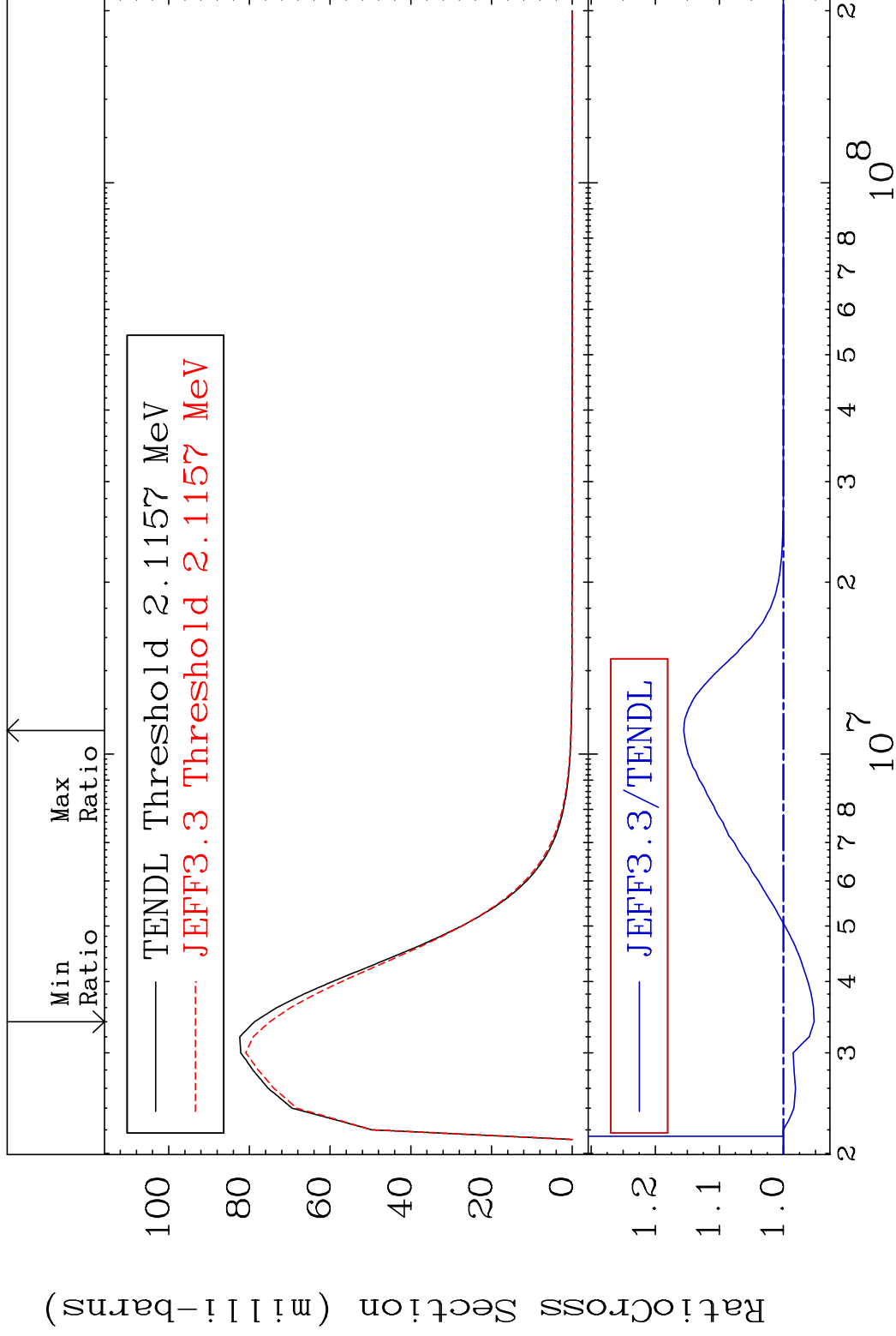


MAT 2034

MT= 60 (n,n') Level

20-Ca-43

Cross Section -4.791 To 15.57 %

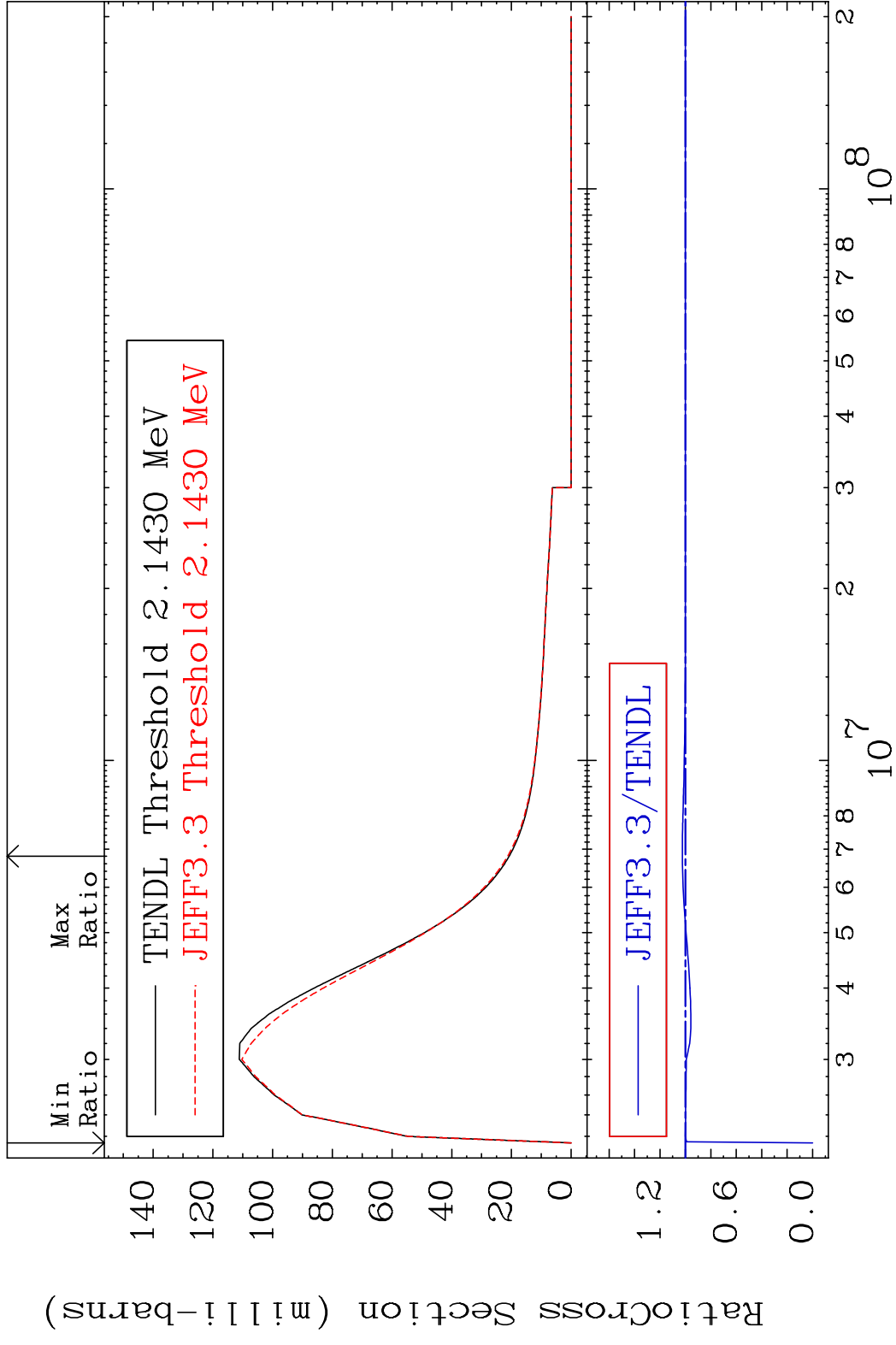


30

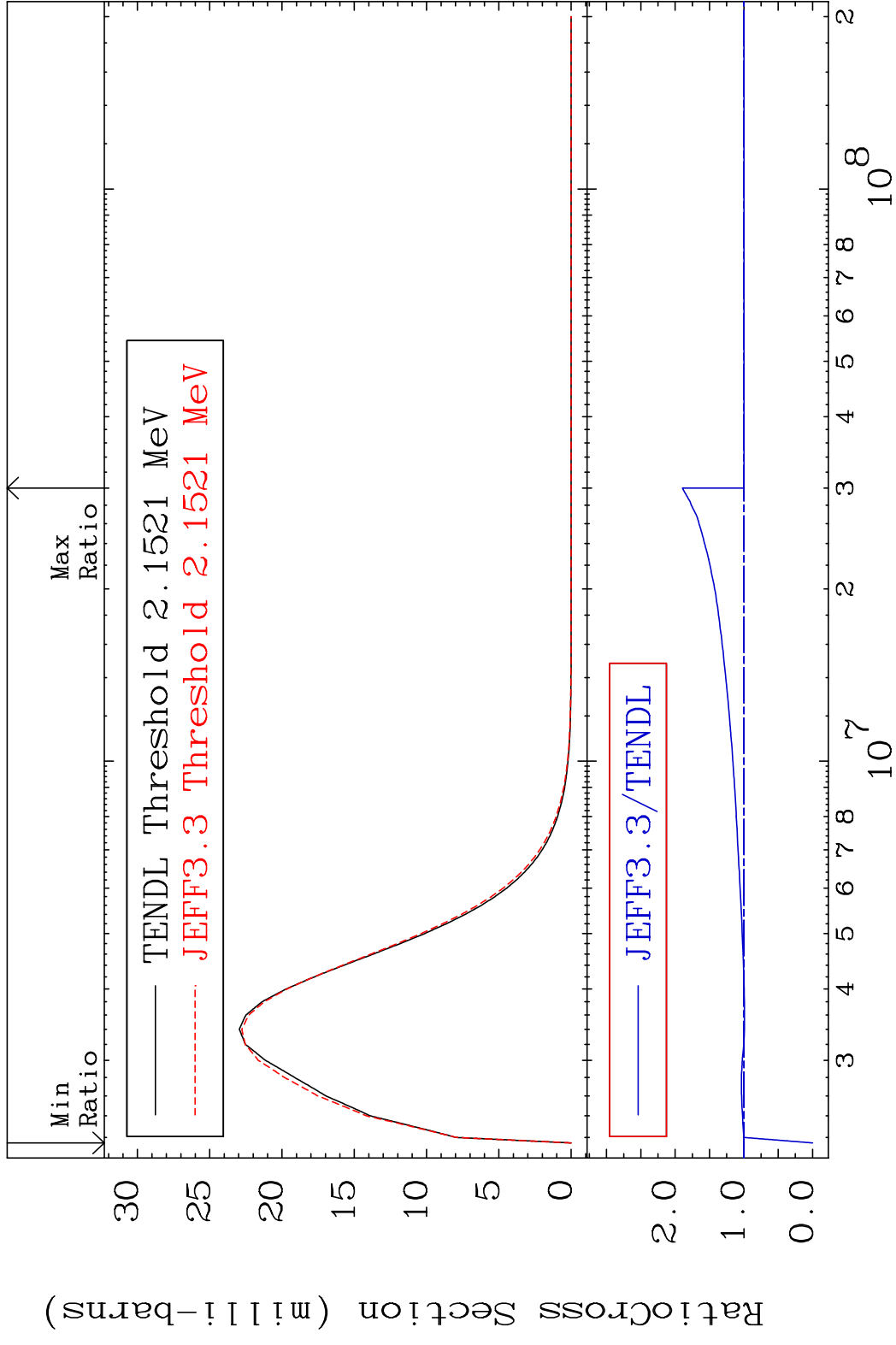
Incident Energy (eV)

20-Ca-43

MAT 2034 MT= 61 (n, n') Level 20-Ca-43
 Cross Section -100.0 To 2.383 %

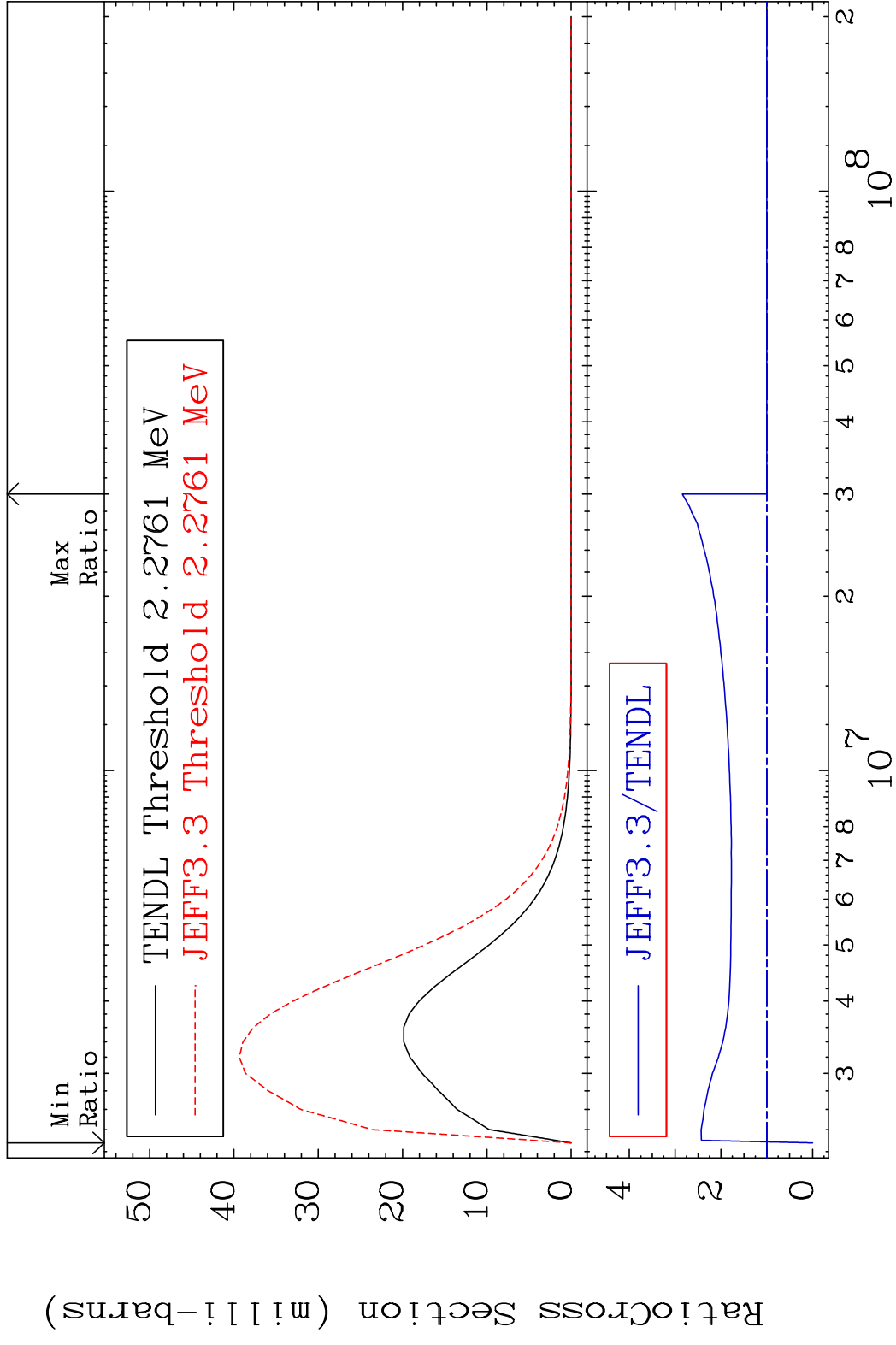


MAT 2034 MT= 62 (n, n') Level 20-Ca-43
 Cross Section -100.0 To 89.57 %

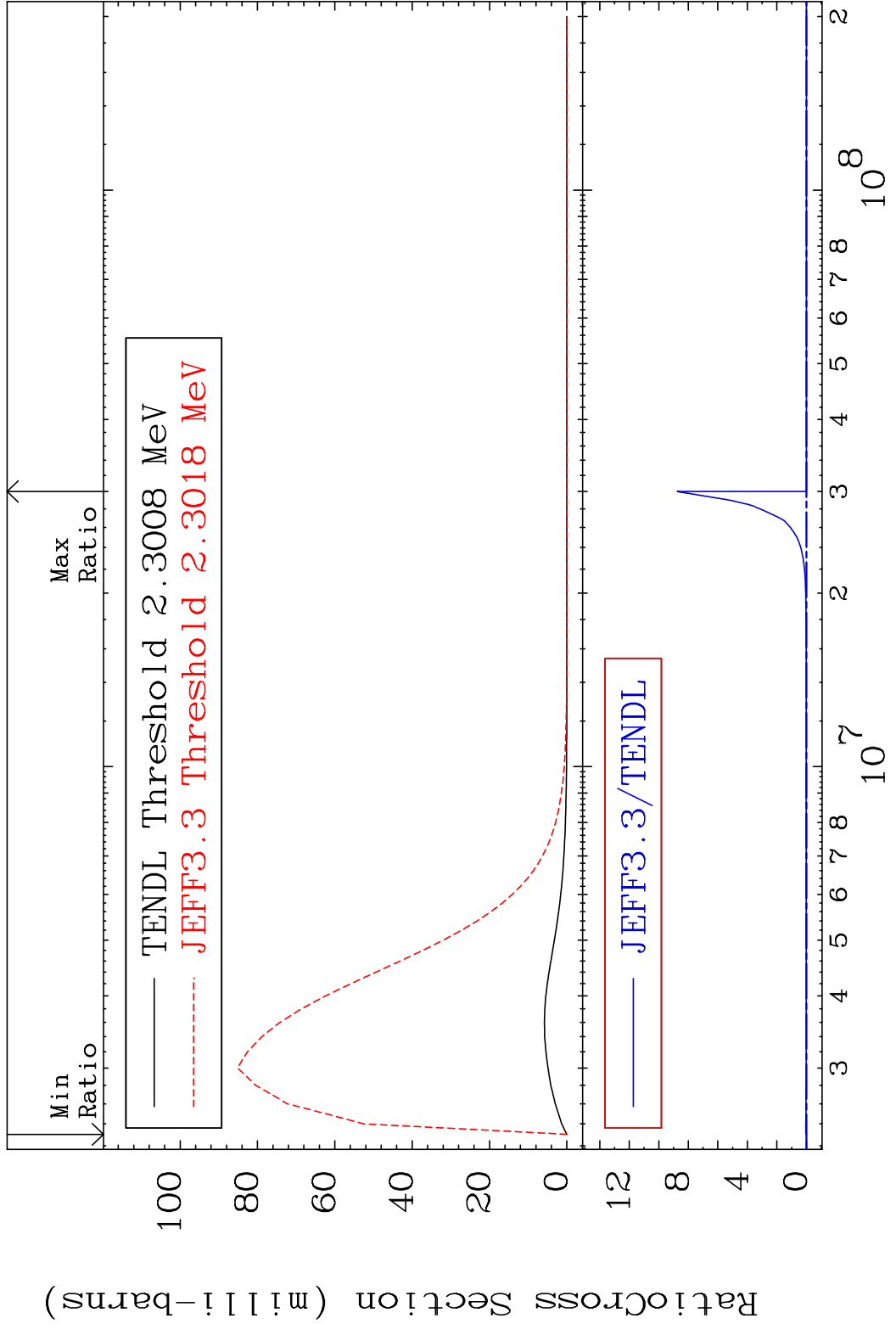


32 Incident Energy (eV) 20-Ca-43

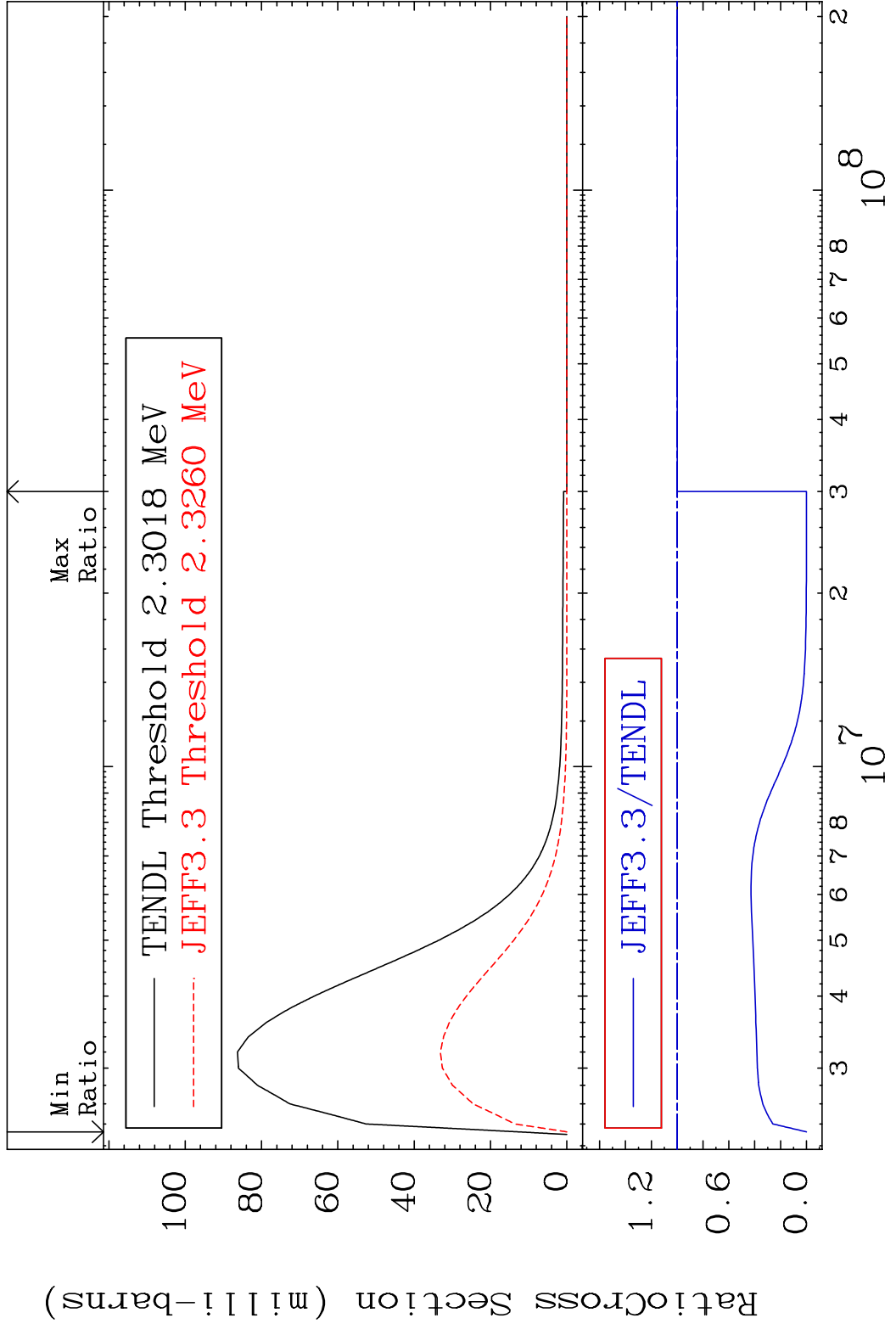
MAT 2034 MT= 63 (n, n') Level 20-Ca-43
 Cross Section -100.0 To 184.3 %



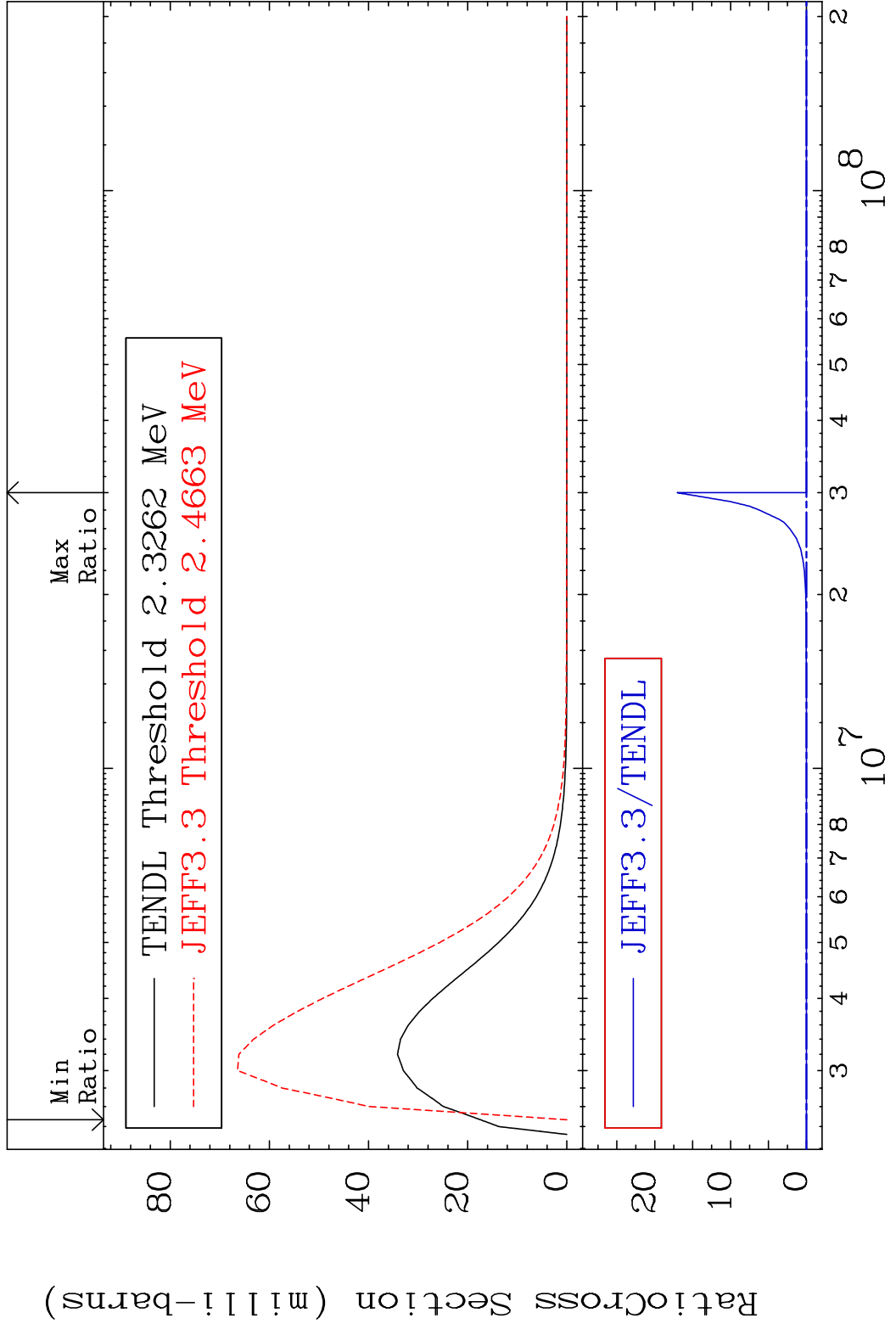
MAT 2034 MT= 64 (n, n') Level 20-Ca-43
 Cross Section -100.0 To 9999. %



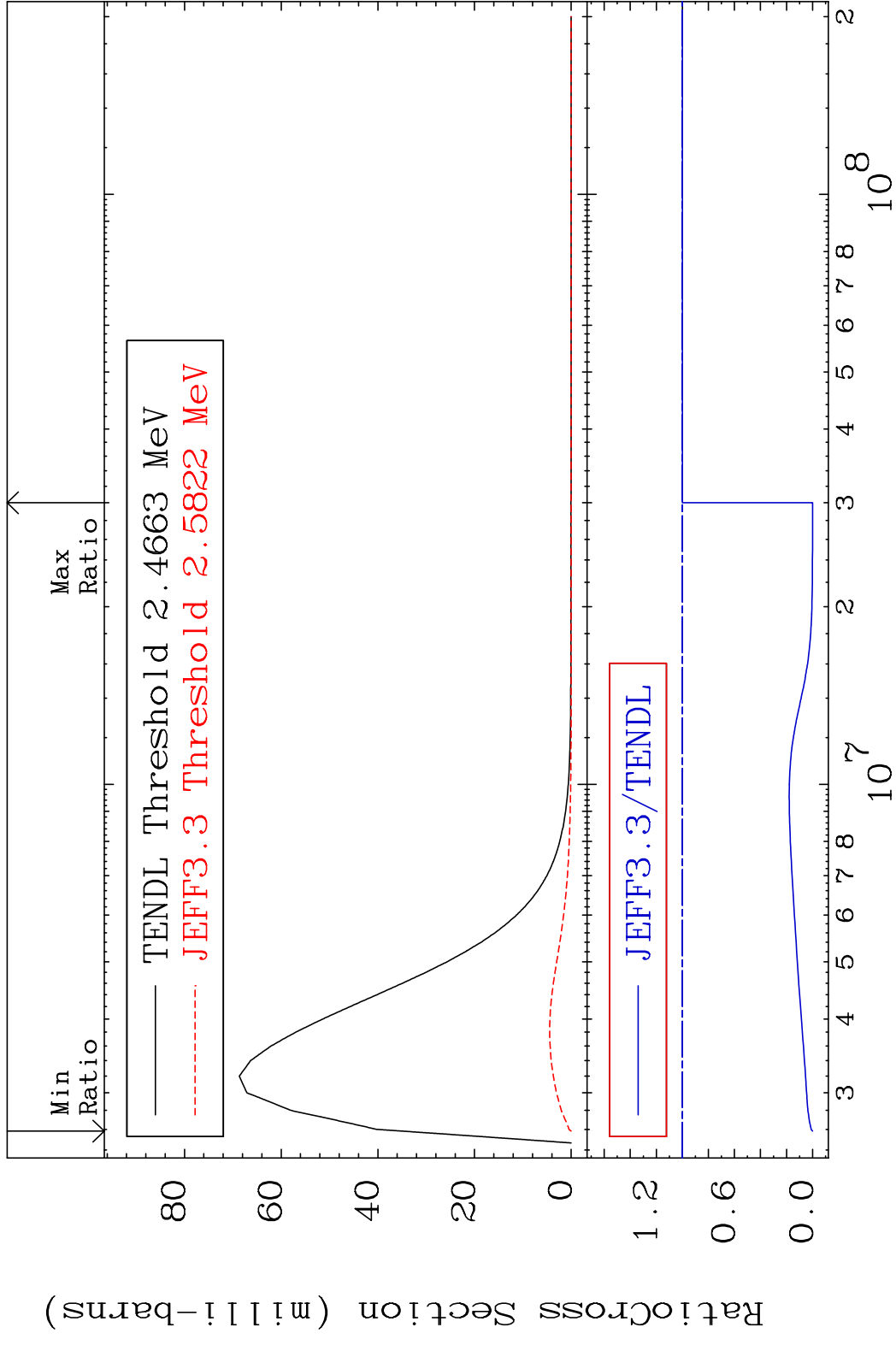
MAT 2034 MT= 65 (n, n') Level 20-Ca-43
 Cross Section -100.0 To 0.000 %



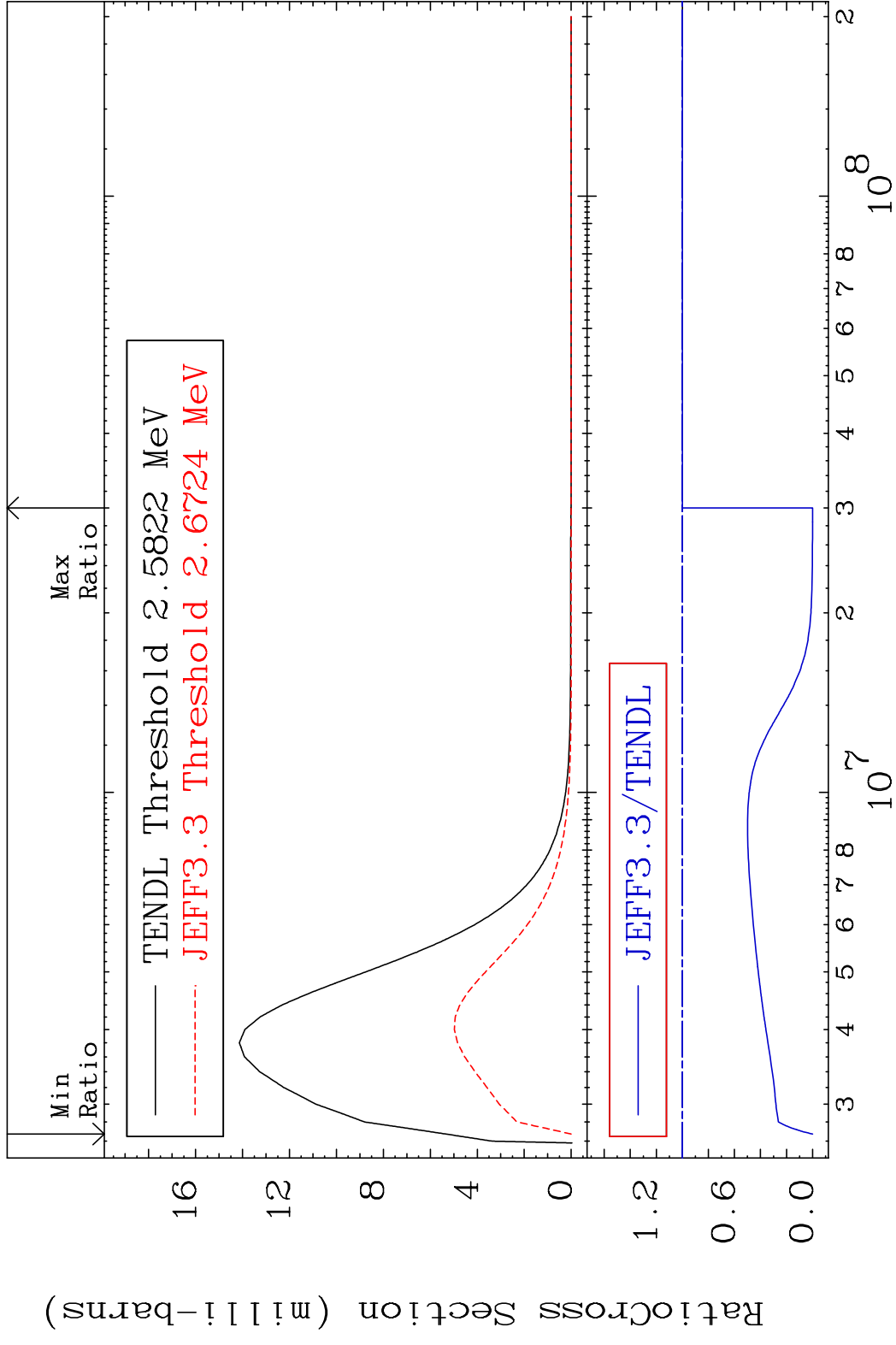
MAT 2034 MT= 66 (n, n') Level 20-Ca-43
 Cross Section -100.0 To 9999. %



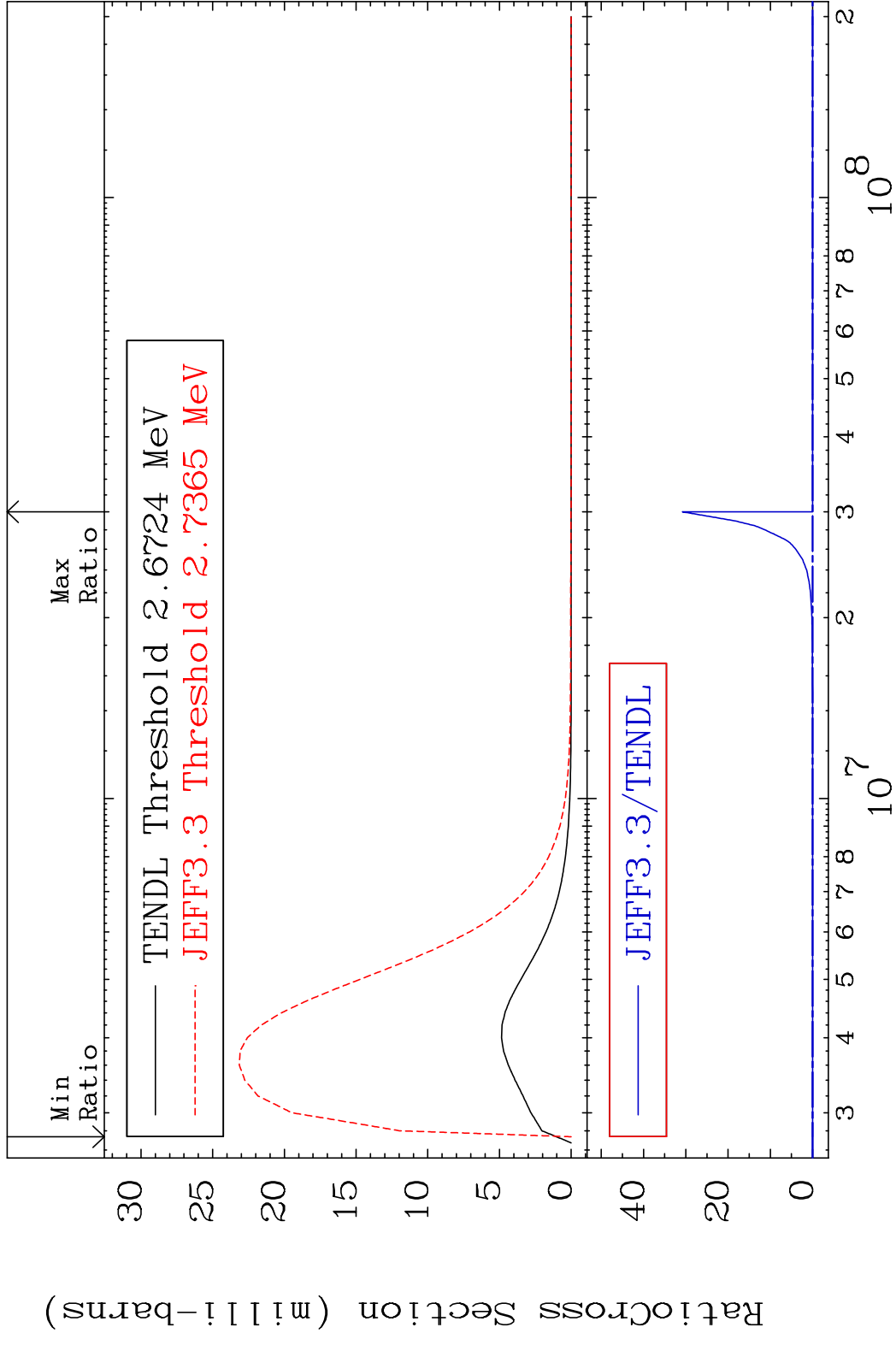
MAT 2034 MT= 67 (n, n') Level 20-Ca-43
 Cross Section -100.0 To 0.000 %



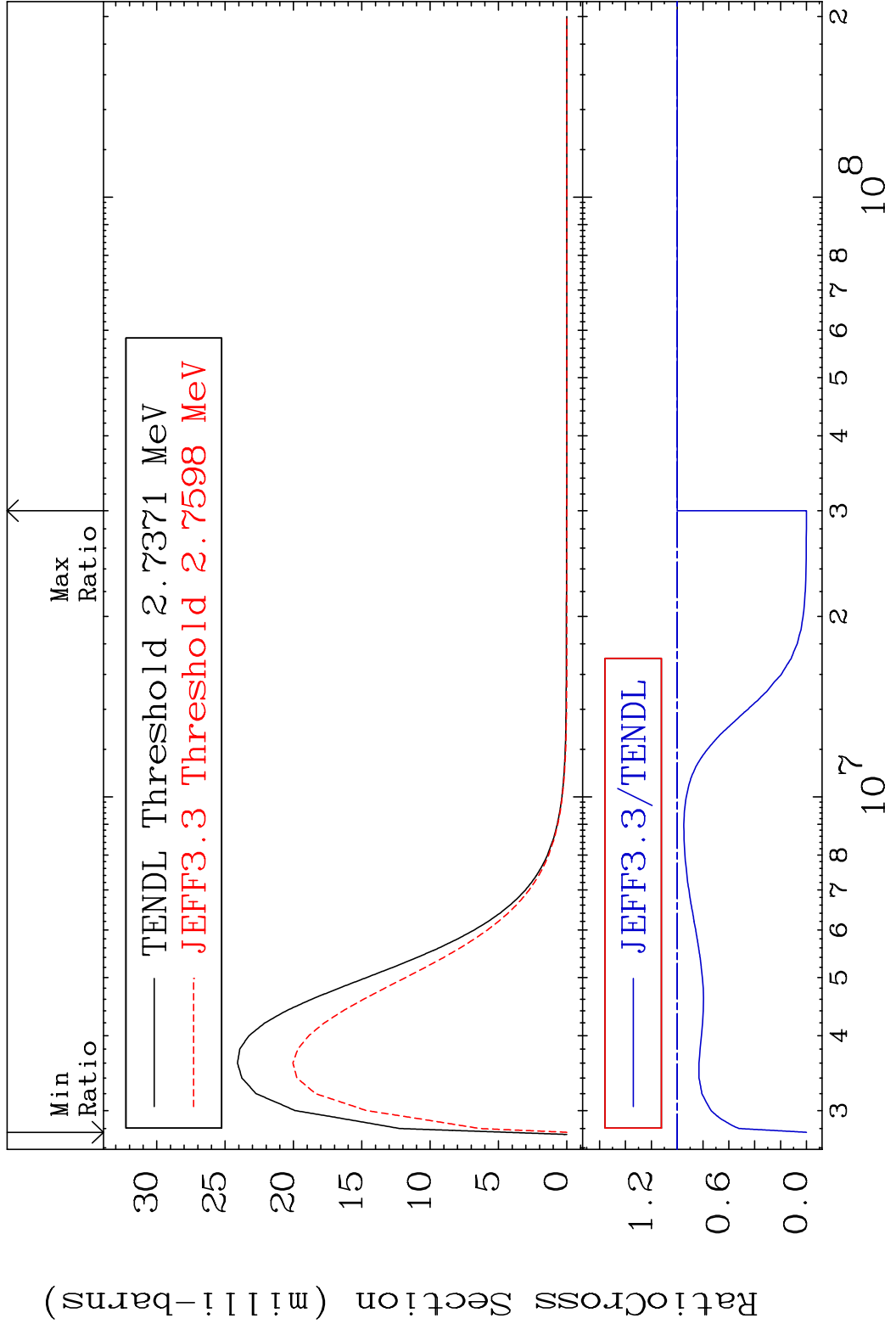
MAT 2034 MT= 68 (n, n') Level 20-Ca-43
 Cross Section -100.0 To 0.000 %



MAT 2034 MT= 69 (n, n') Level 20-Ca-43
 Cross Section -100.0 To 9999. %

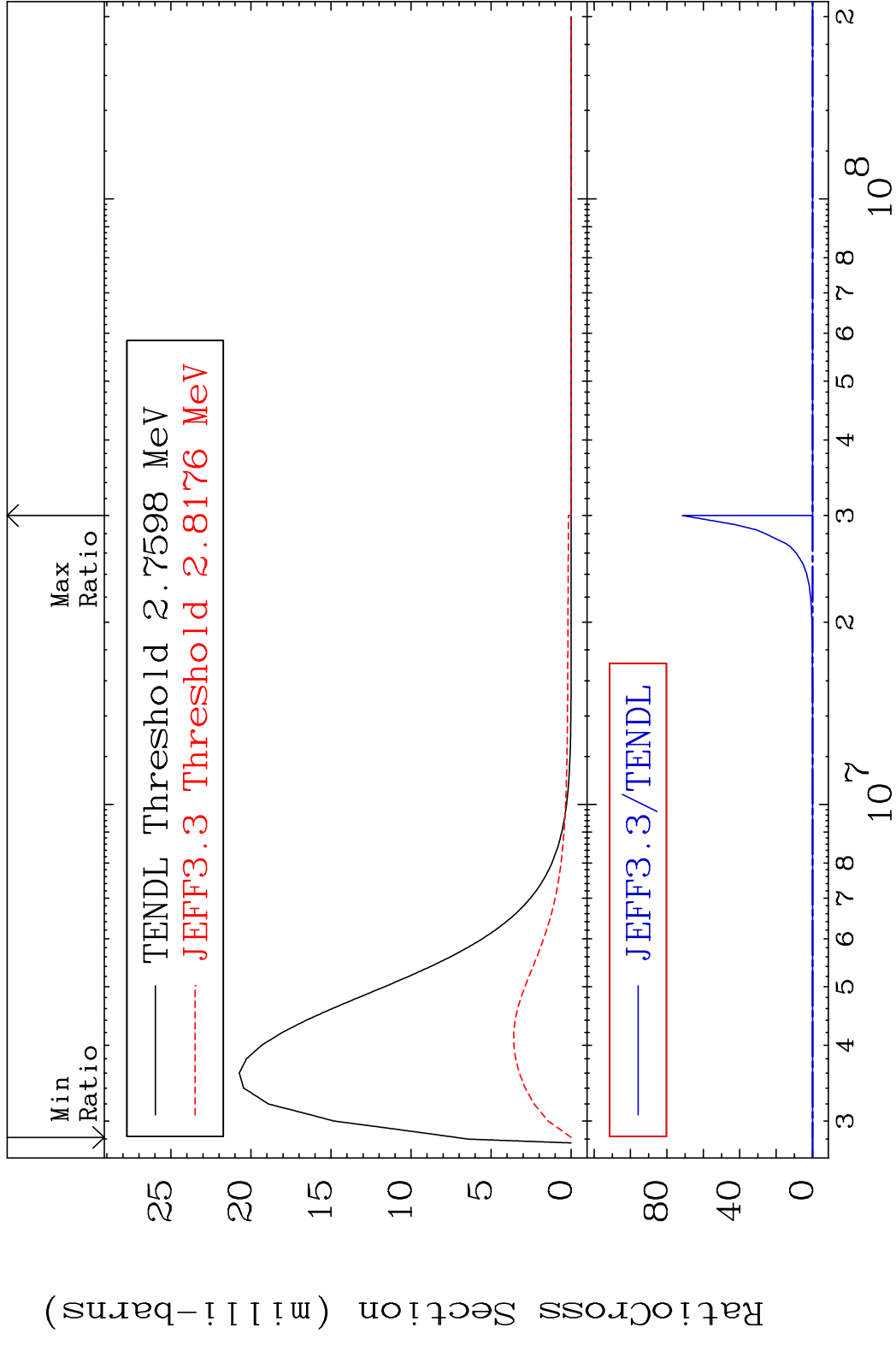


MAT 2034 MT= 70 (n, n') Level 20-Ca-43
 Cross Section -100.0 To 0.000 %



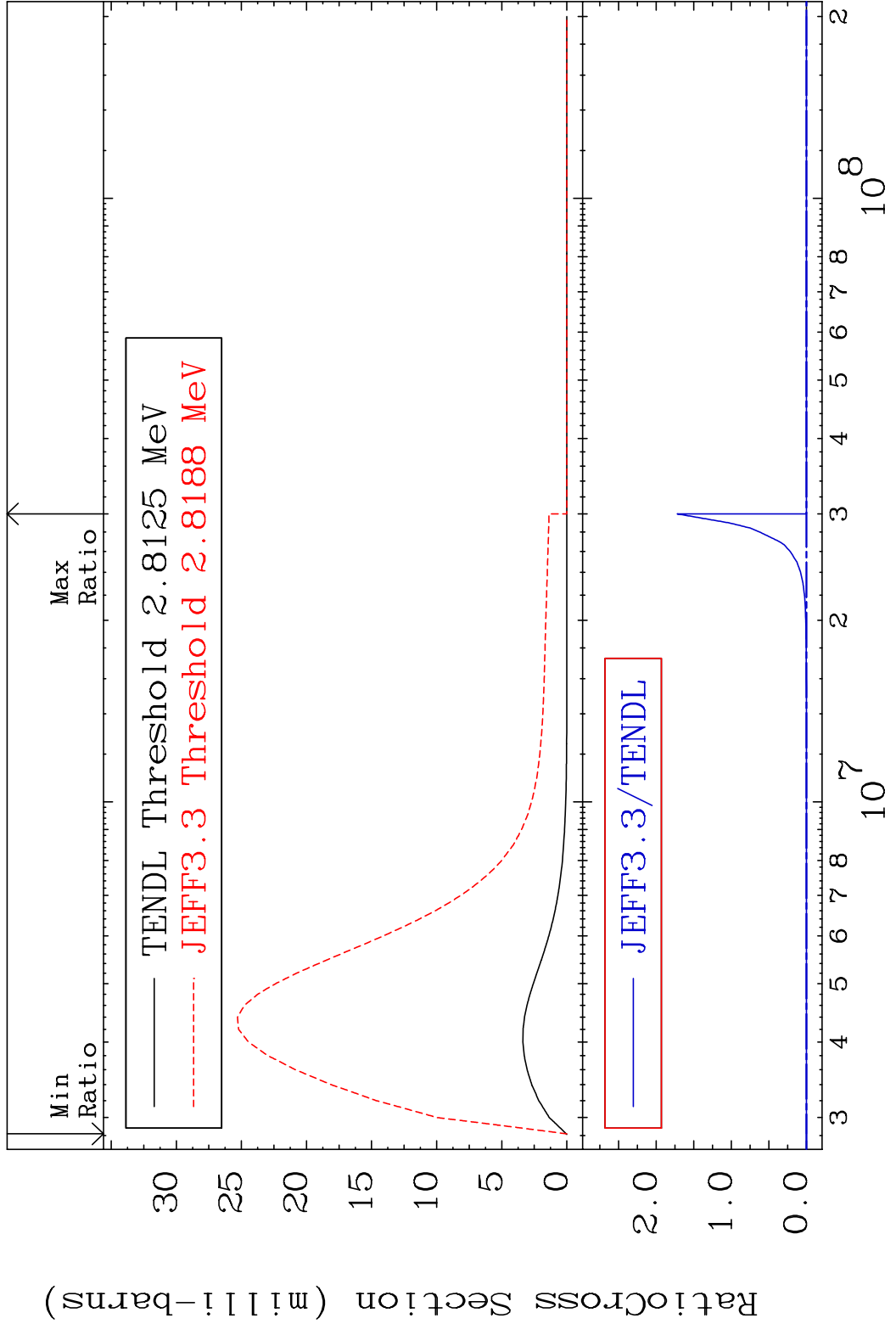
40 Incident Energy (eV) 20-Ca-43

MAT 2034 MT= 71 (n, n') Level 20-Ca-43
 Cross Section -100.0 To 9999. %

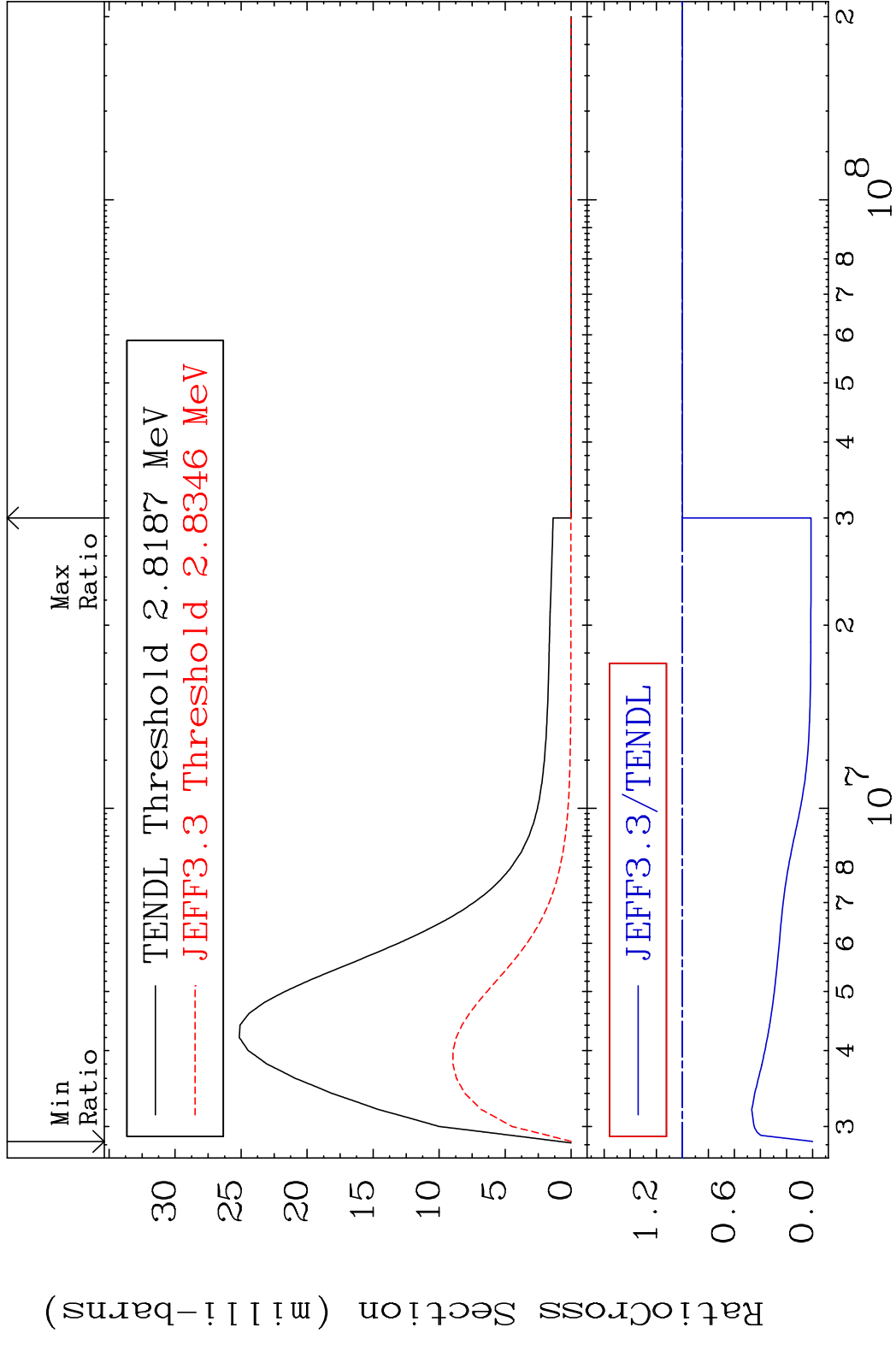


41 Incident Energy (eV) 20-Ca-43

MAT 2034 MT= 72 (n, n') Level 20-Ca-43
 Cross Section -100.0 To 9999. %

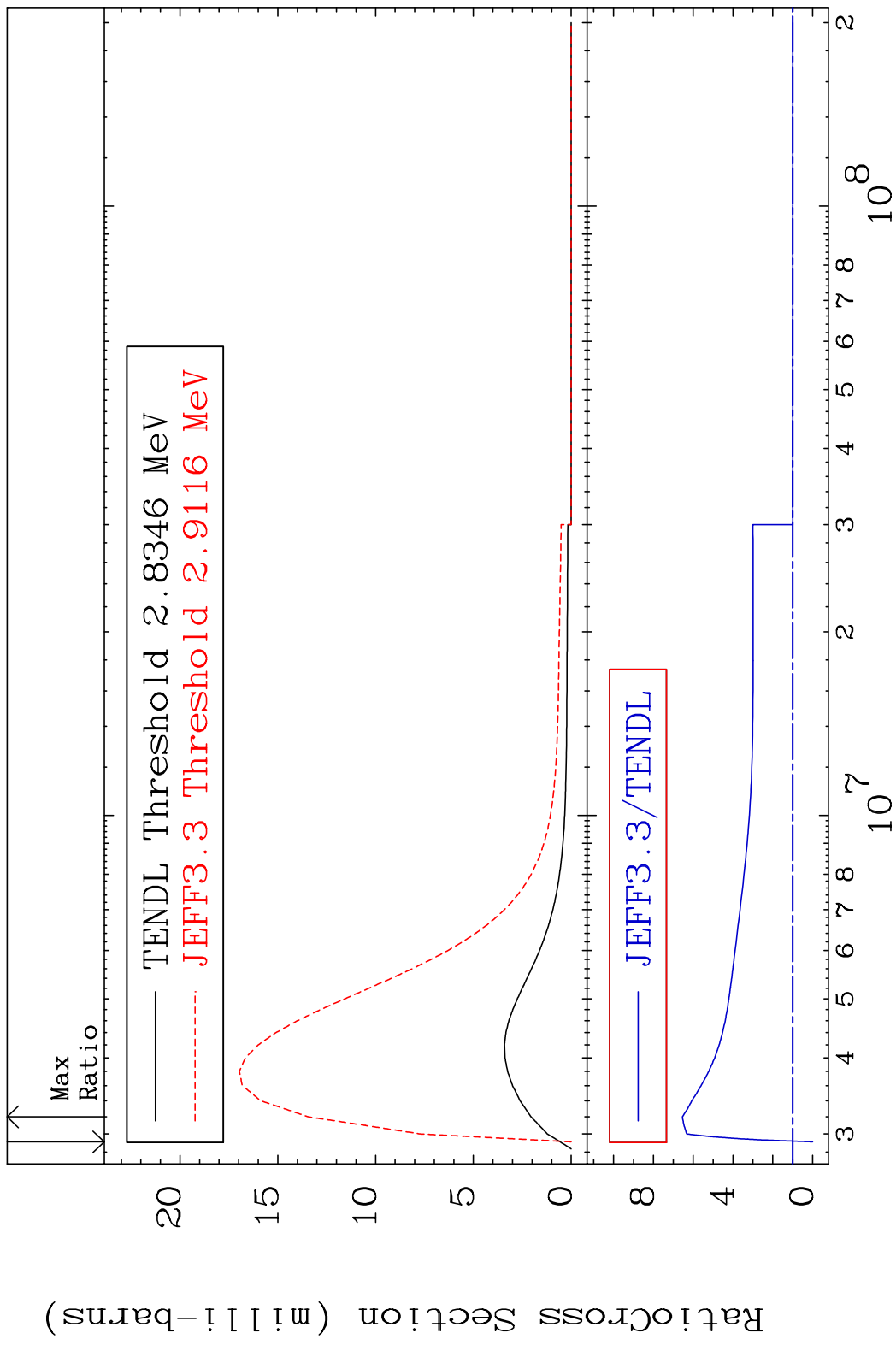


MAT 2034 MT= 73 (n, n') Level 20-Ca-43
 Cross Section -100.0 To 0.000 %

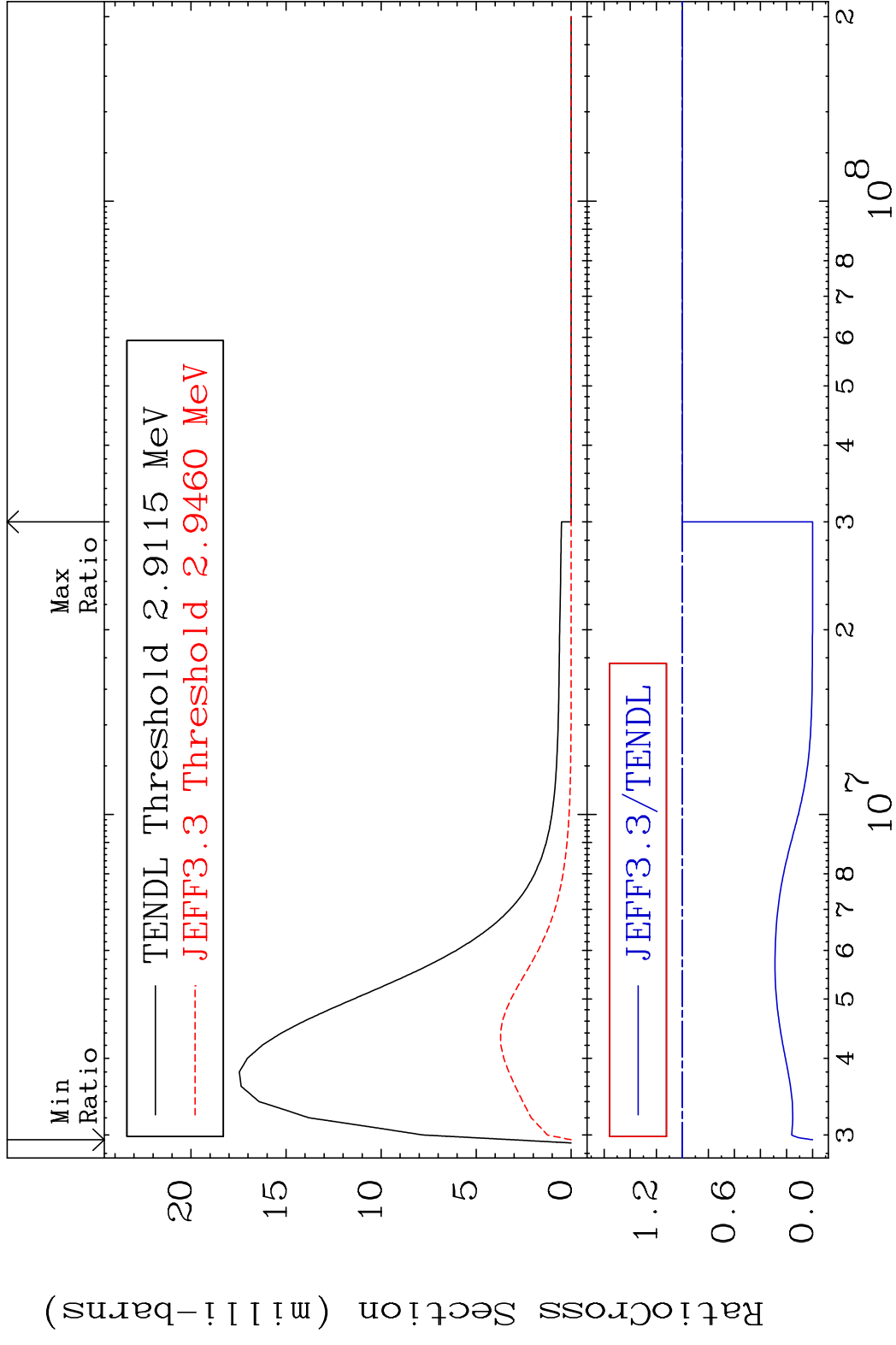


43 Incident Energy (eV) 20-Ca-43

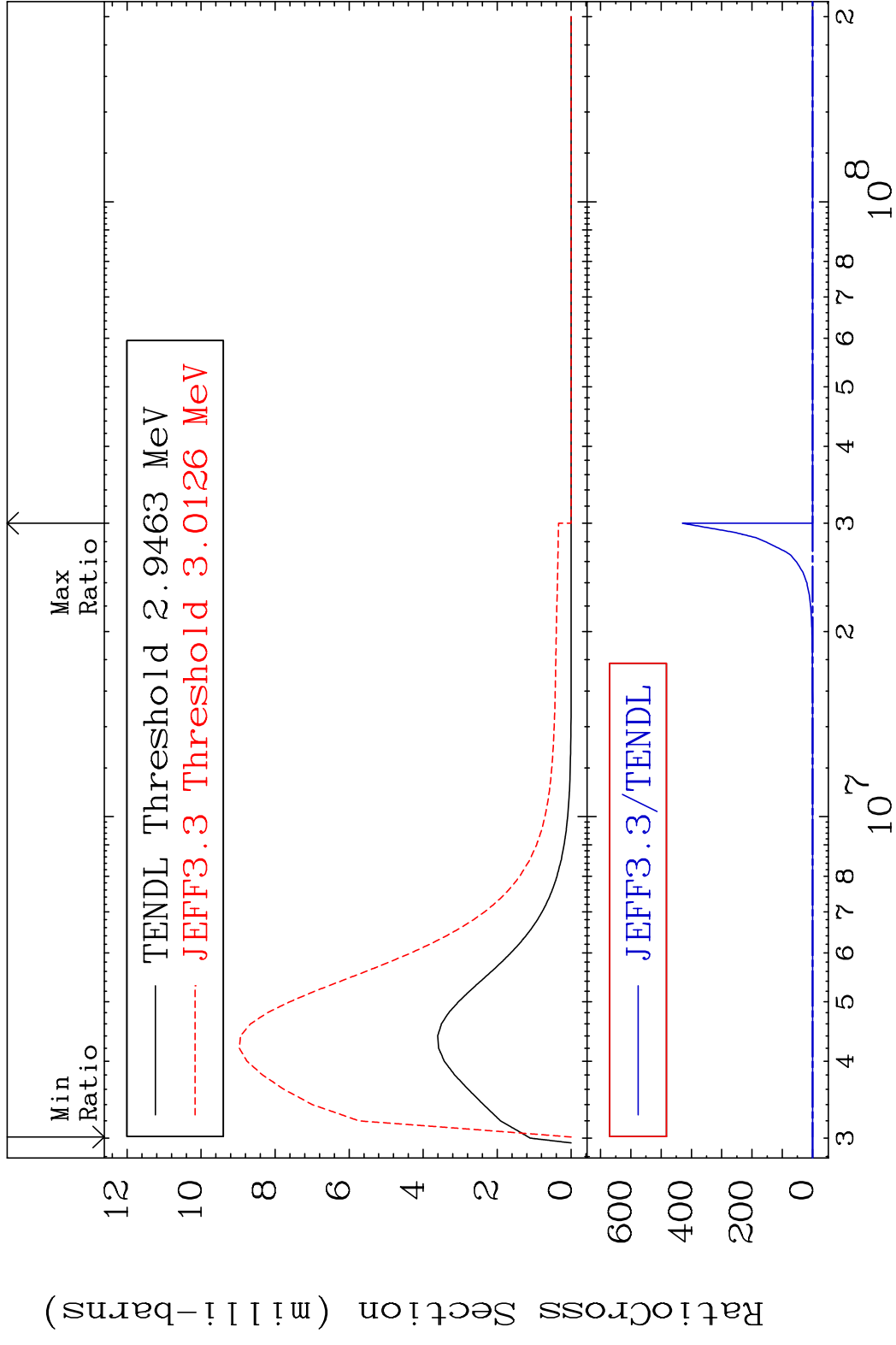
MAT 2034 MT= 74 (n, n') Level 20-Ca-43
 Cross Section -100.0 To 554.4 %



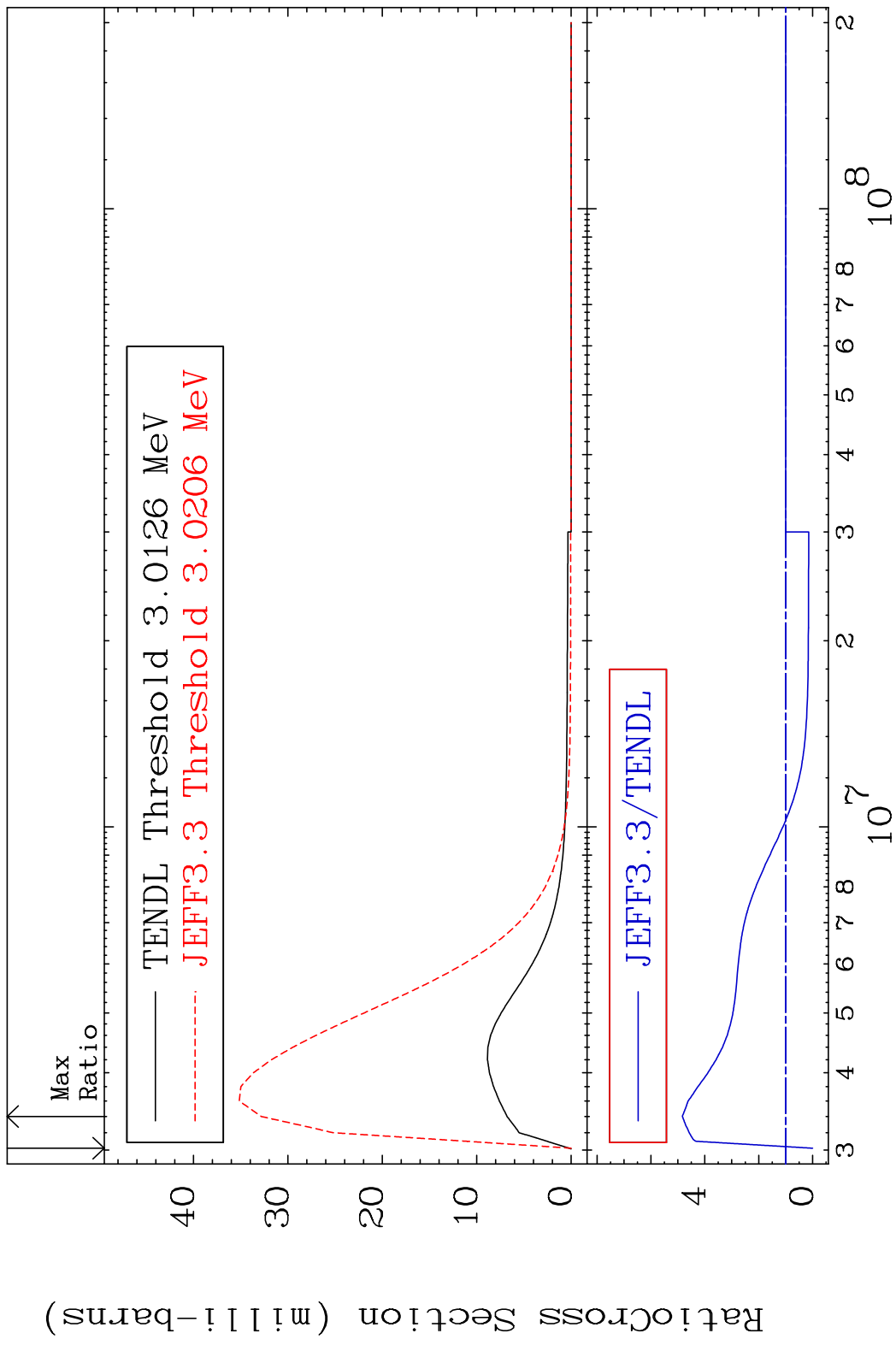
MAT 2034 MT= 75 (n, n') Level 20-Ca-43
 Cross Section -100.0 To 0.000 %



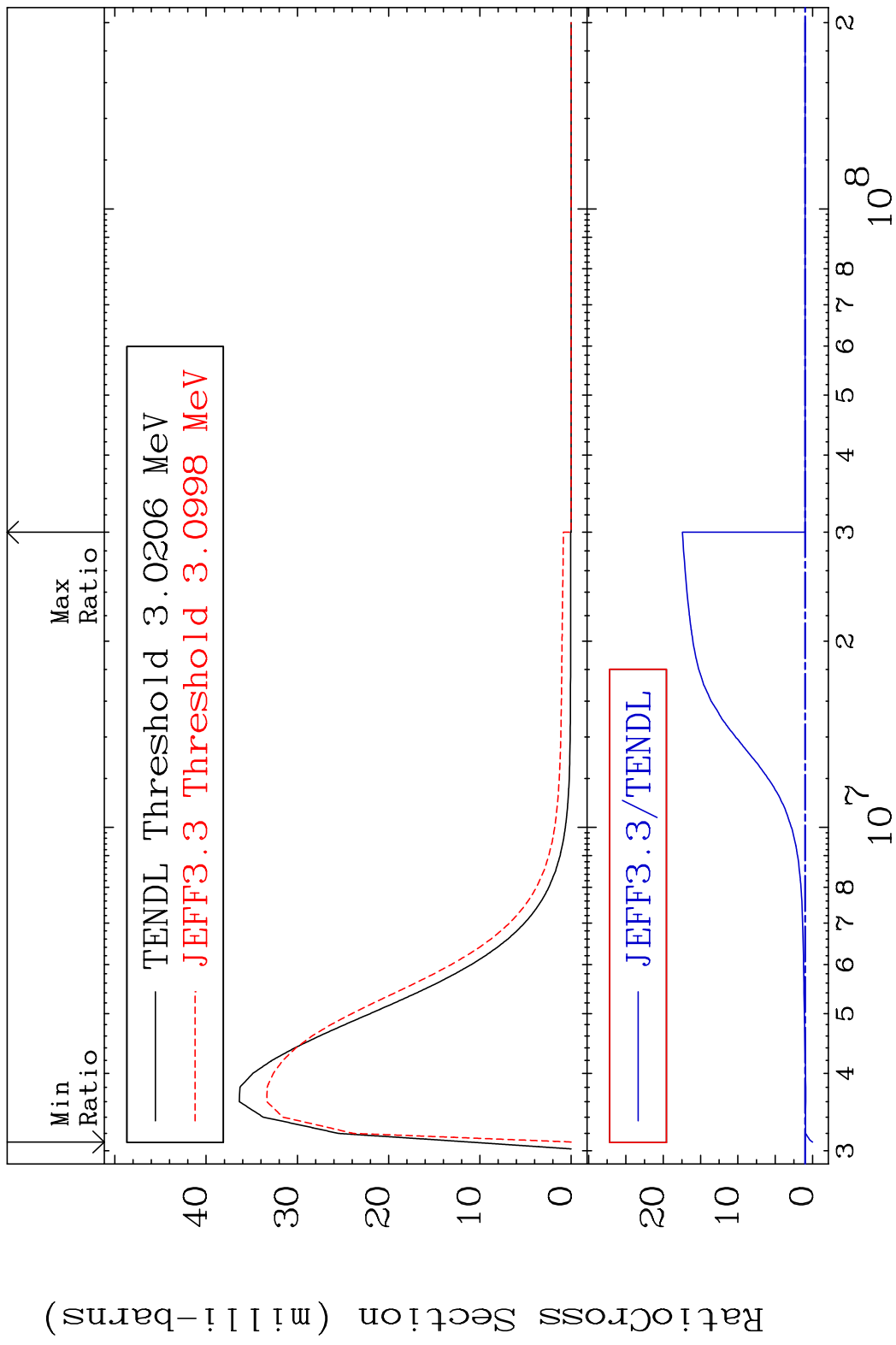
MAT 2034 MT= 76 (n, n') Level 20-Ca-43
 Cross Section -100.0 To 9999. %



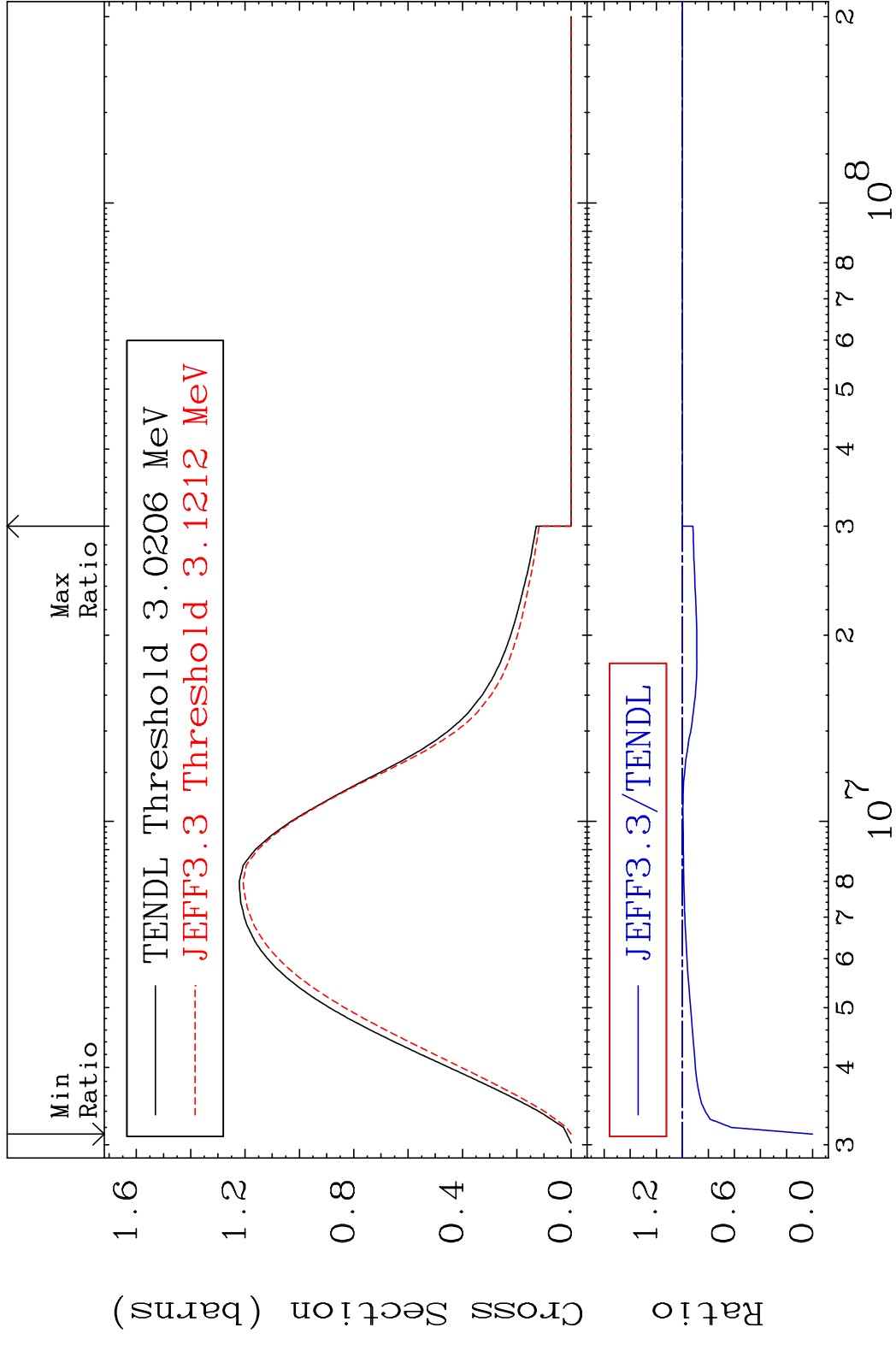
MAT 2034 MT= 77 (n,n') Level 20-Ca-43
 Cross Section -100.0 To 383.4 %



MAT 2034 MT= 78 (n, n') Level 20-Ca-43
 Cross Section -100.0 To 1644. %



MAT 2034 (n,n') Continuum 20-Ca-43
 Cross Section -100.0 To 0.000 %

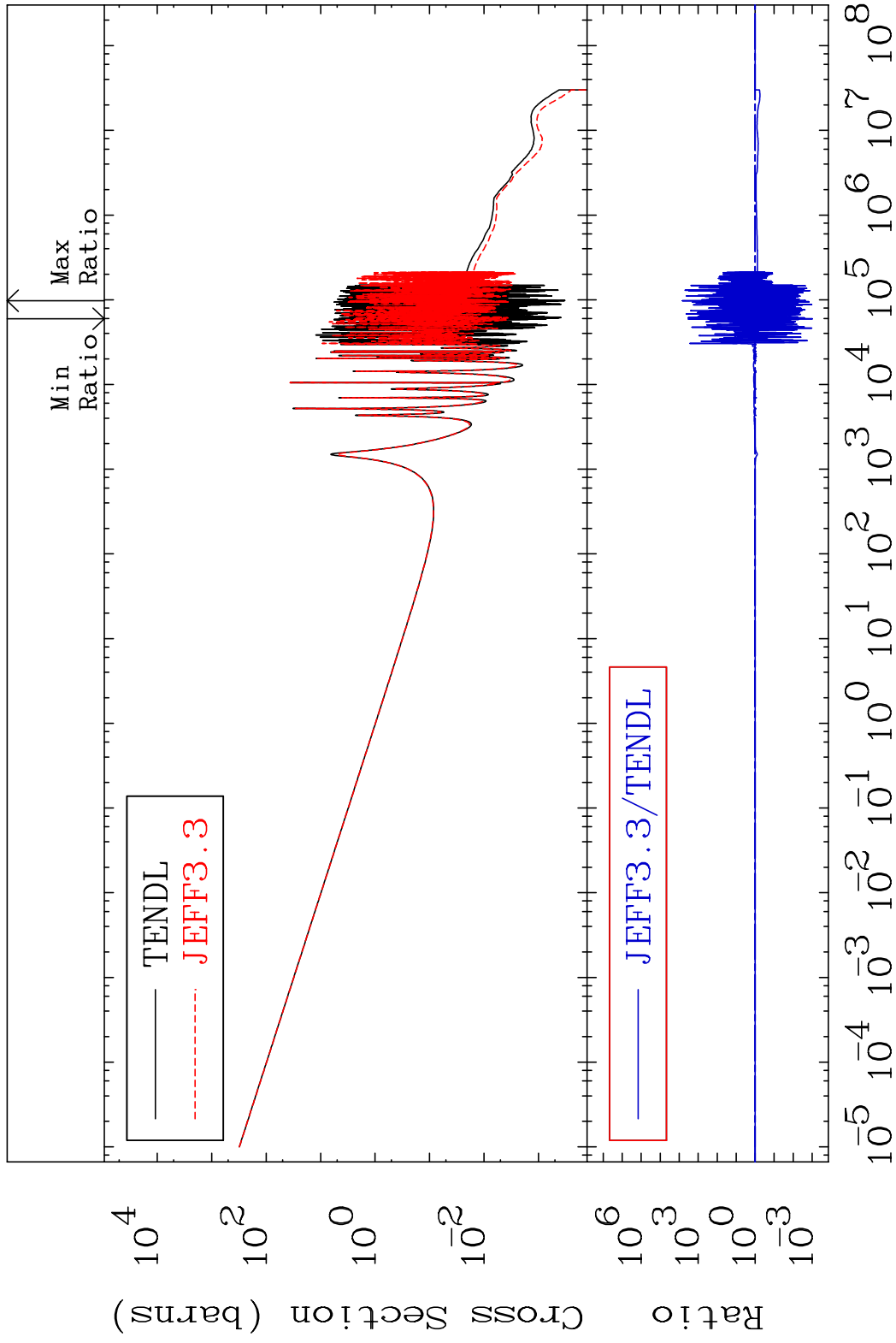


MAT 2034

(n, γ)

20-Ca-43

Cross Section -99.90 To 9999. %



50

Incident Energy (eV)

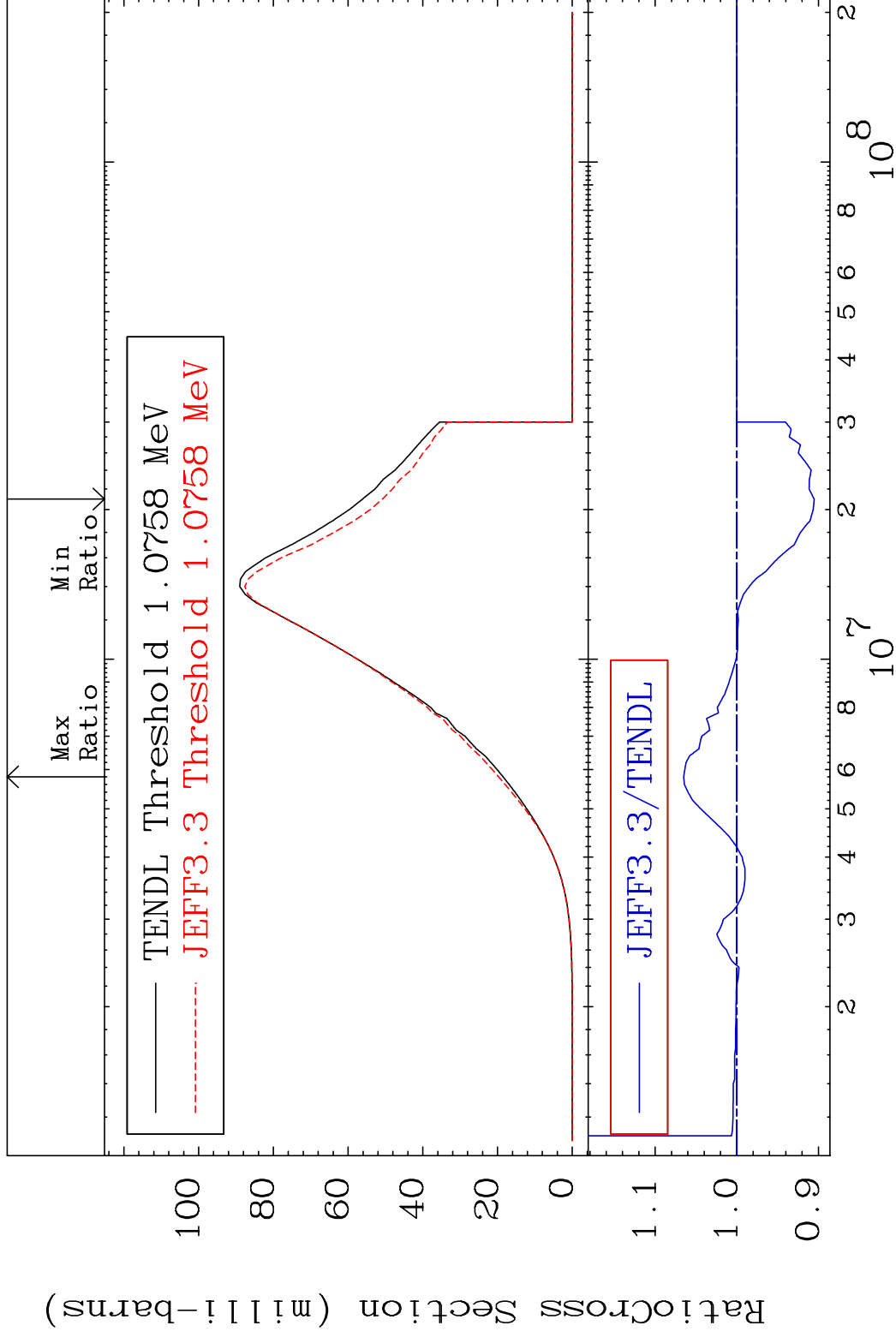
20-Ca-43

MAT 2034

(n, p)

20-Ca-43

Cross Section -9.471 To 6.513 %

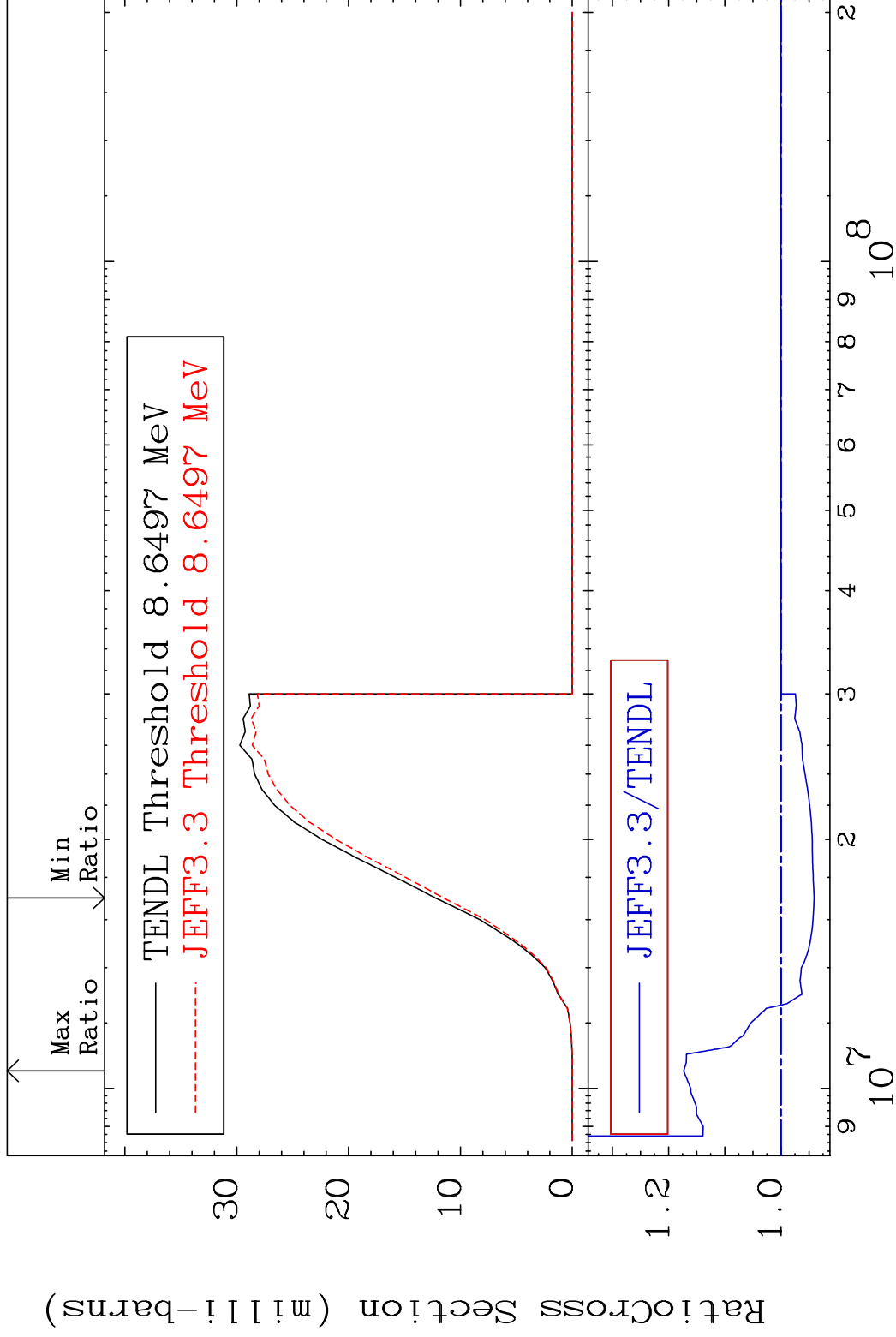


MAT 2034

(n, d)

20-Ca-43

Cross Section -5.899 To 17.32 %



52

Incident Energy (eV)

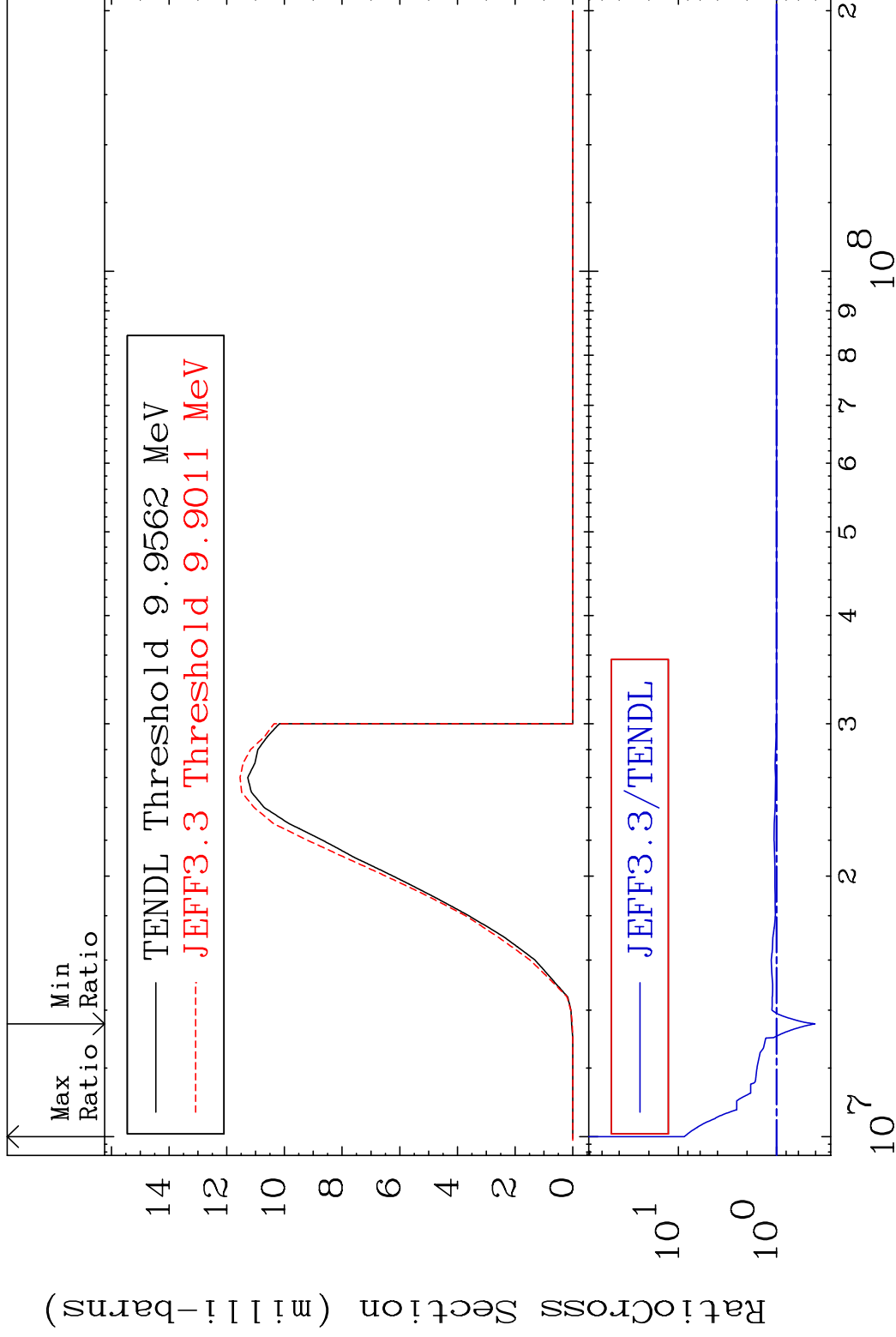
20-Ca-43

MAT 2034

(n, t)

20-Ca-43

Cross Section -59.25 To 769.9 %



53

Incident Energy (eV)

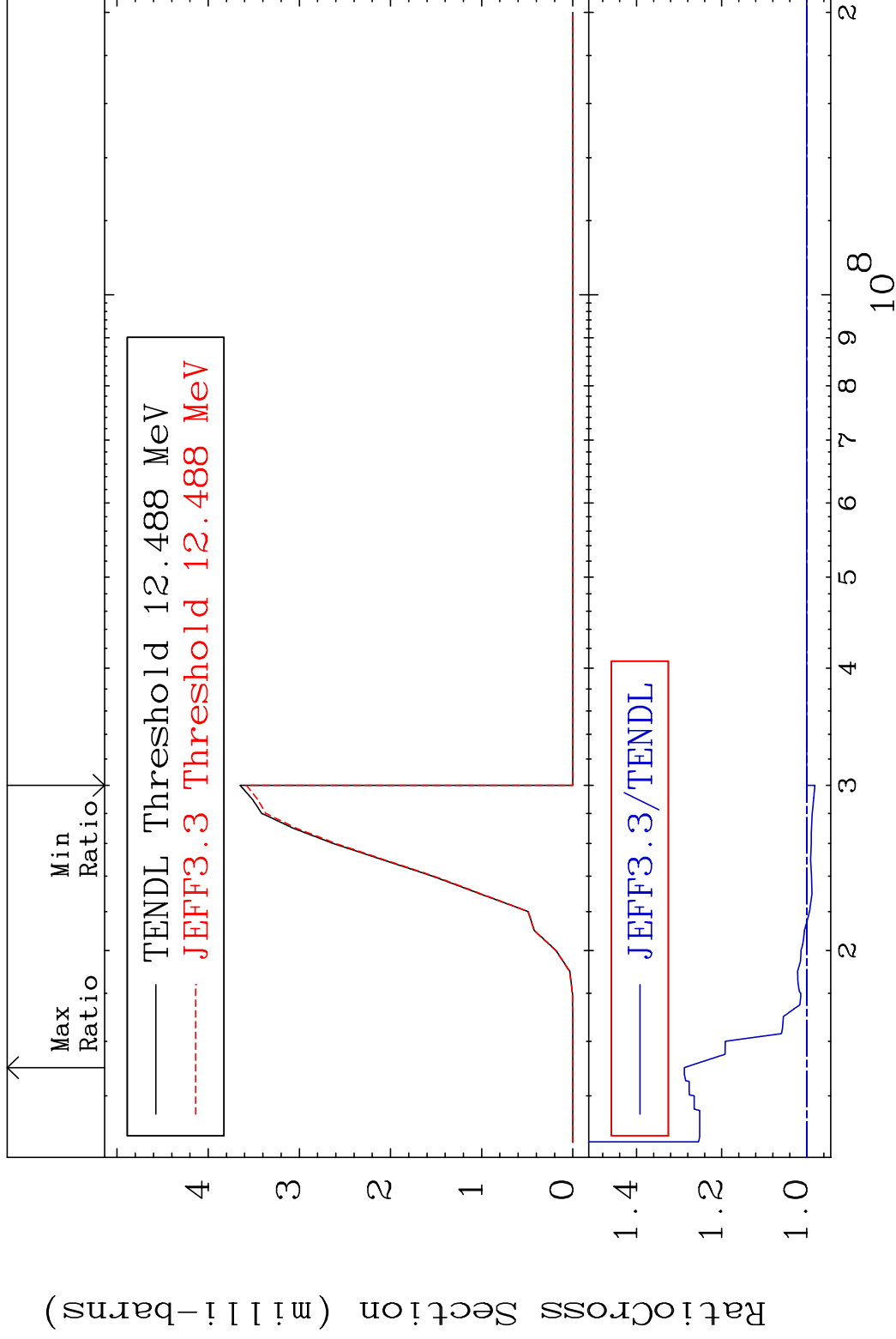
20-Ca-43

MAT 2034

(n, He-3)

20-Ca-43

Cross Section -1.898 To 28.80 %



54

Incident Energy (eV)

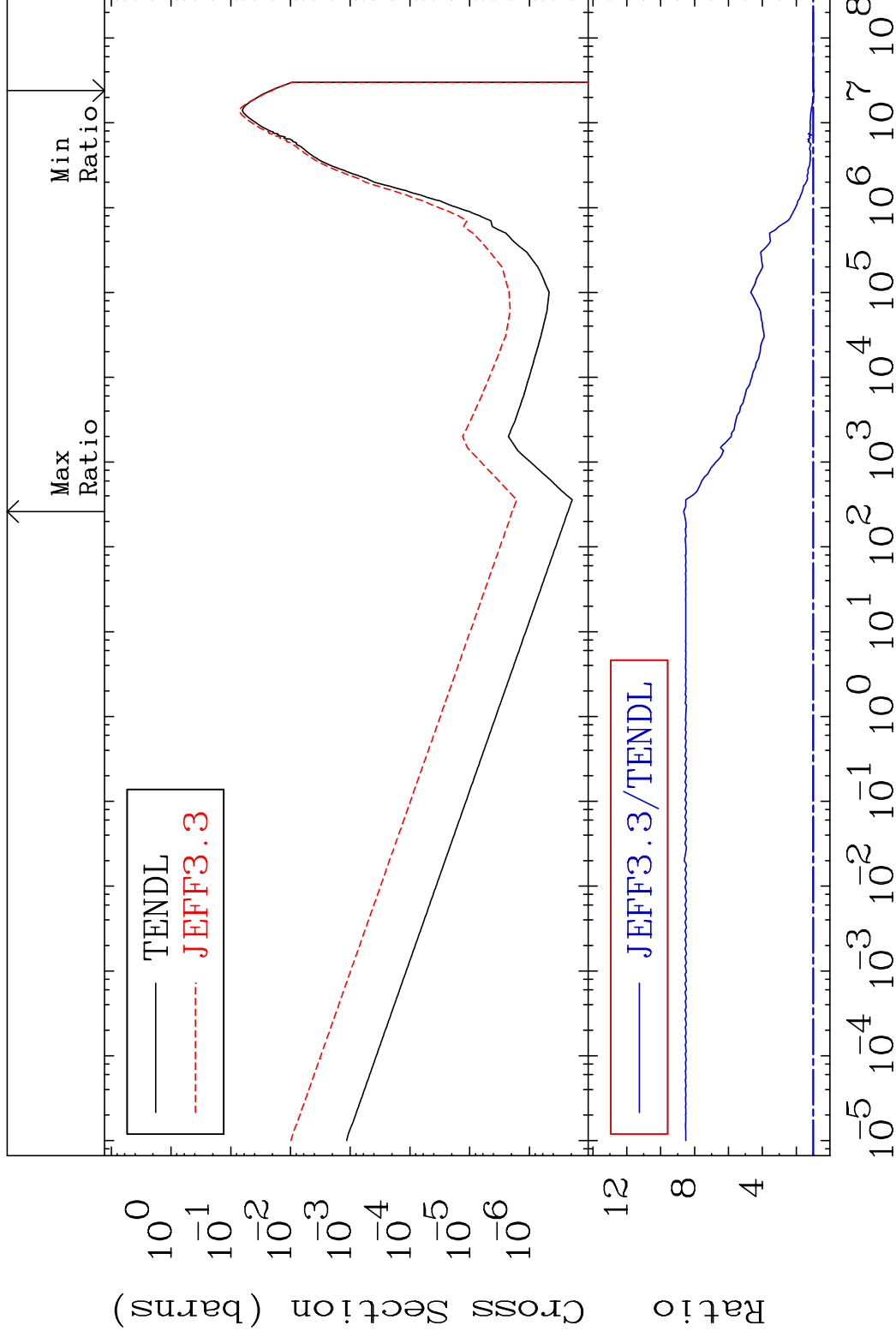
20-Ca-43

MAT 2034

(n, α)

20-Ca-43

Cross Section -5.395 To 764.6 %

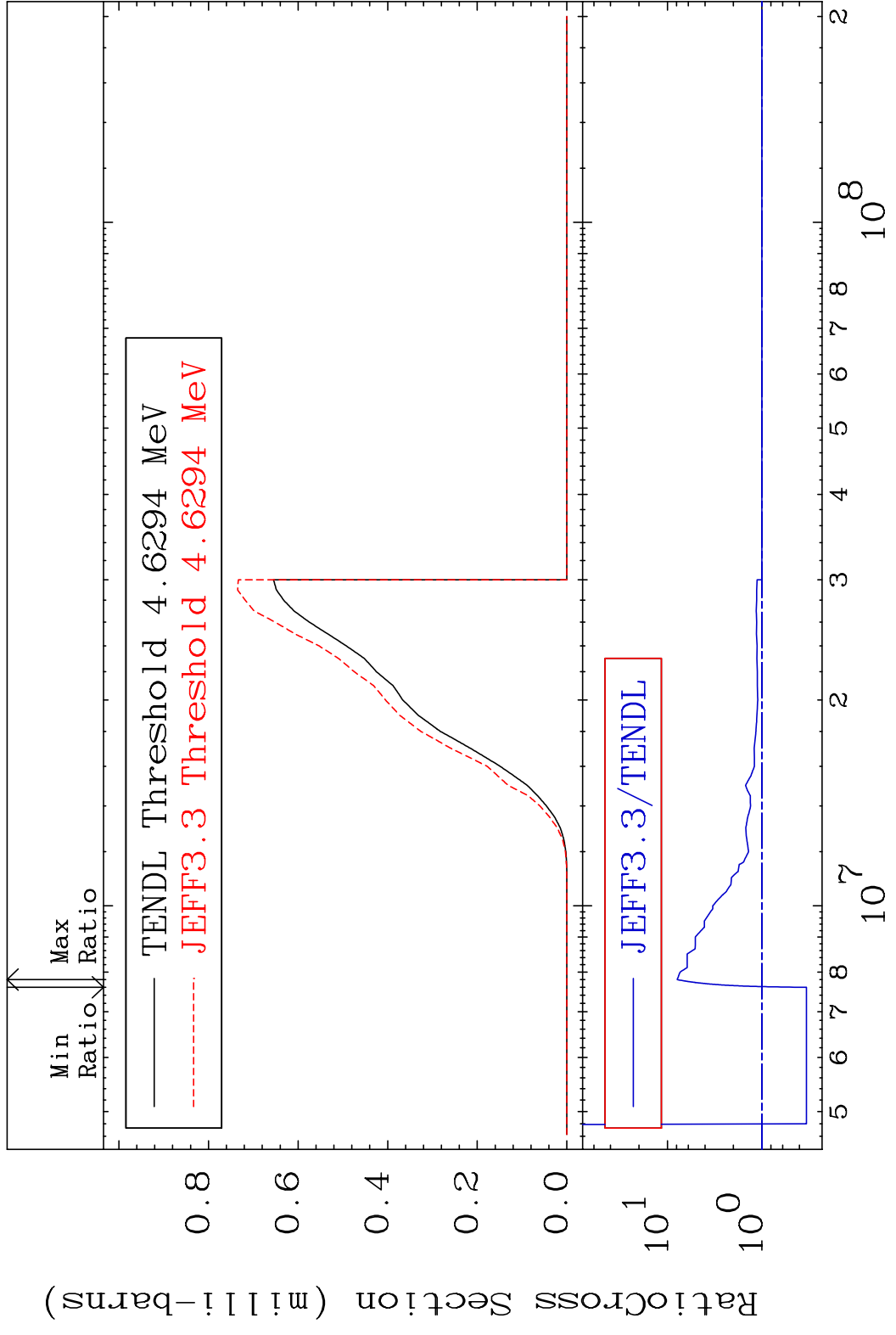


55

Incident Energy (eV)

20-Ca-43

MAT 2034 (n,2α) 20-Ca-43
 Cross Section -66.32 To 687.5 %

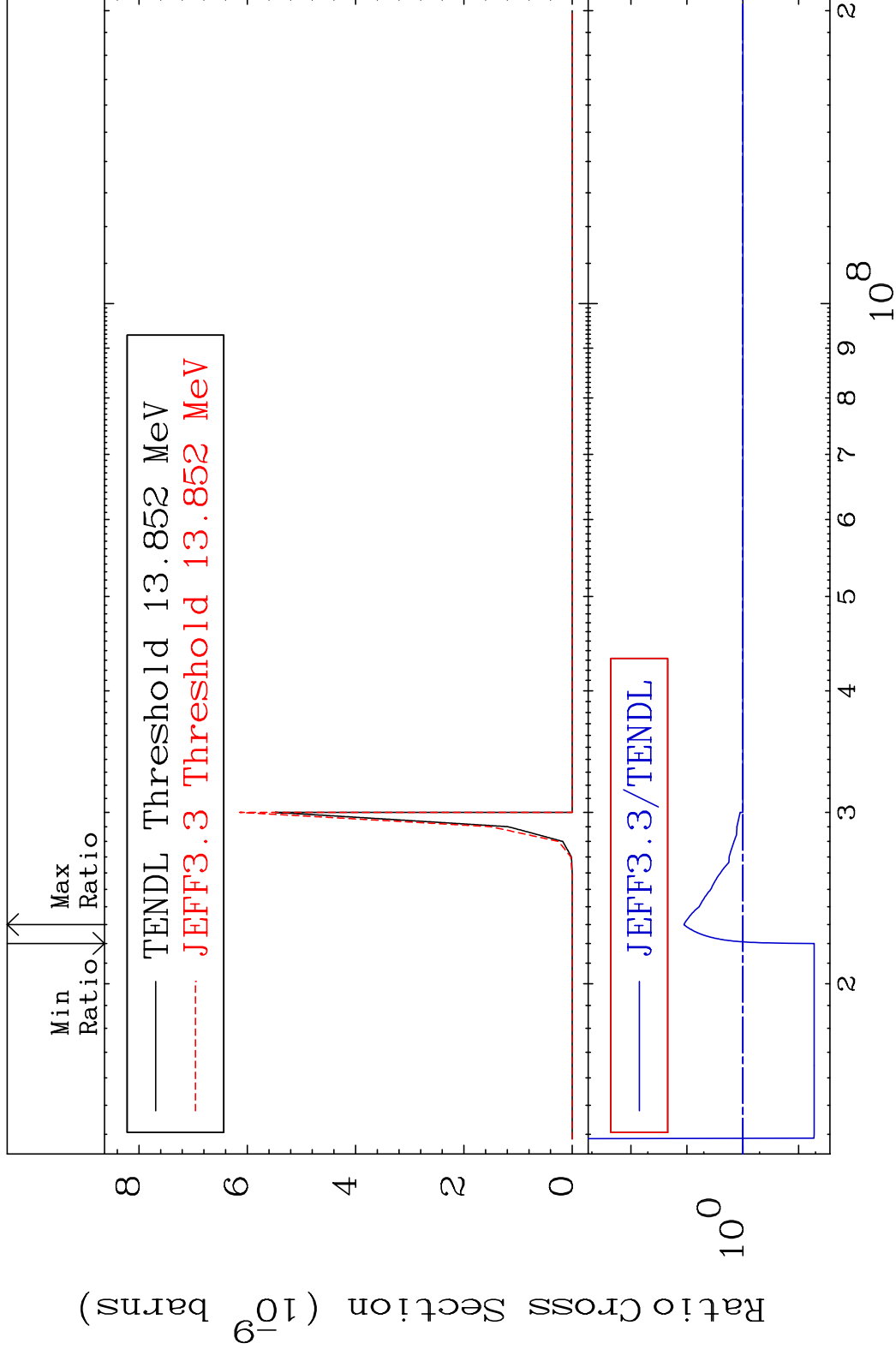


MAT 2034

(n,3 α)

20-Ca-43

Cross Section -94.69 To 1041. %



57

Incident Energy (eV)

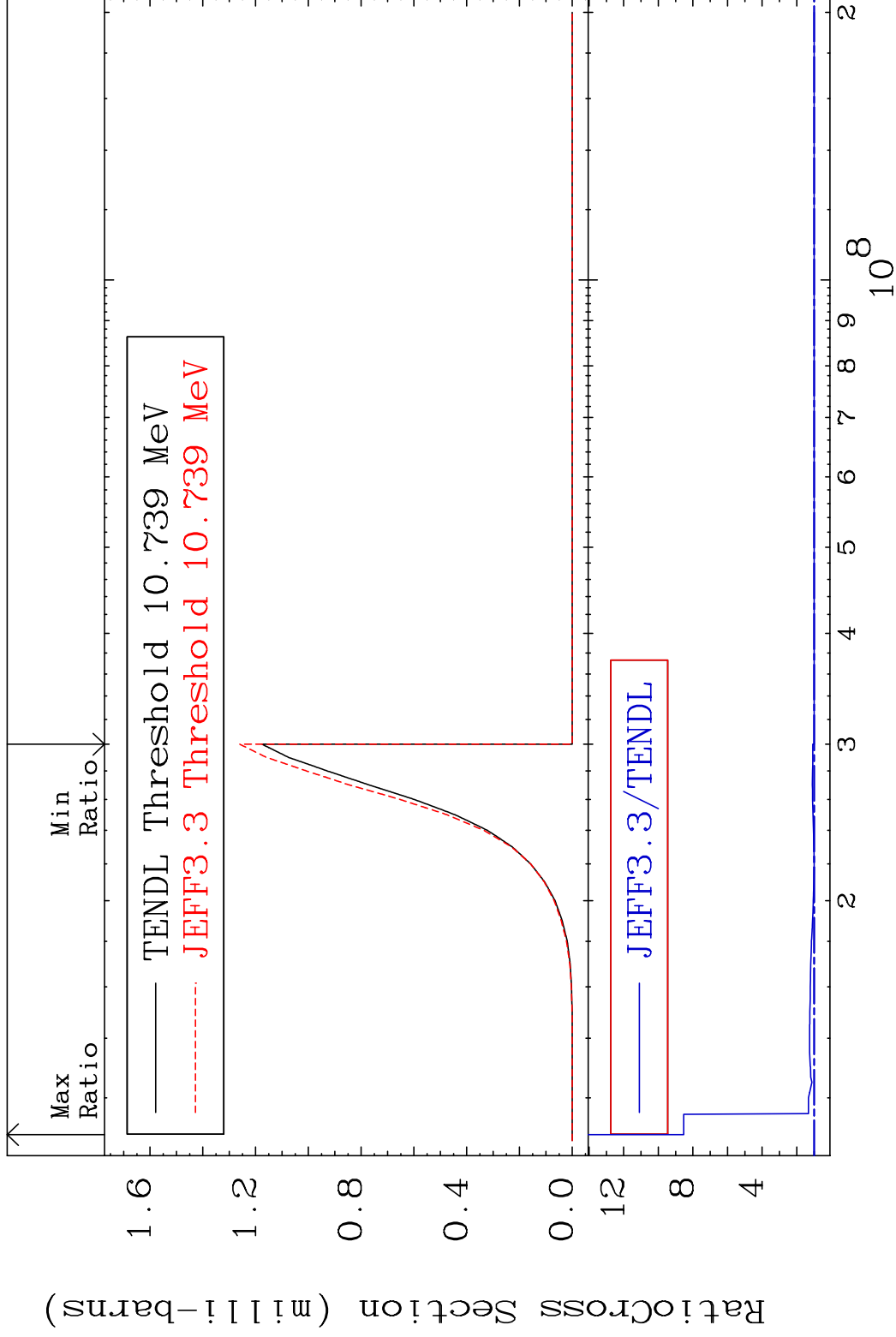
20-Ca-43

MAT 2034

(n,2p)

20-Ca-43

Cross Section 0.000 To 753.5 %



58

Incident Energy (eV)

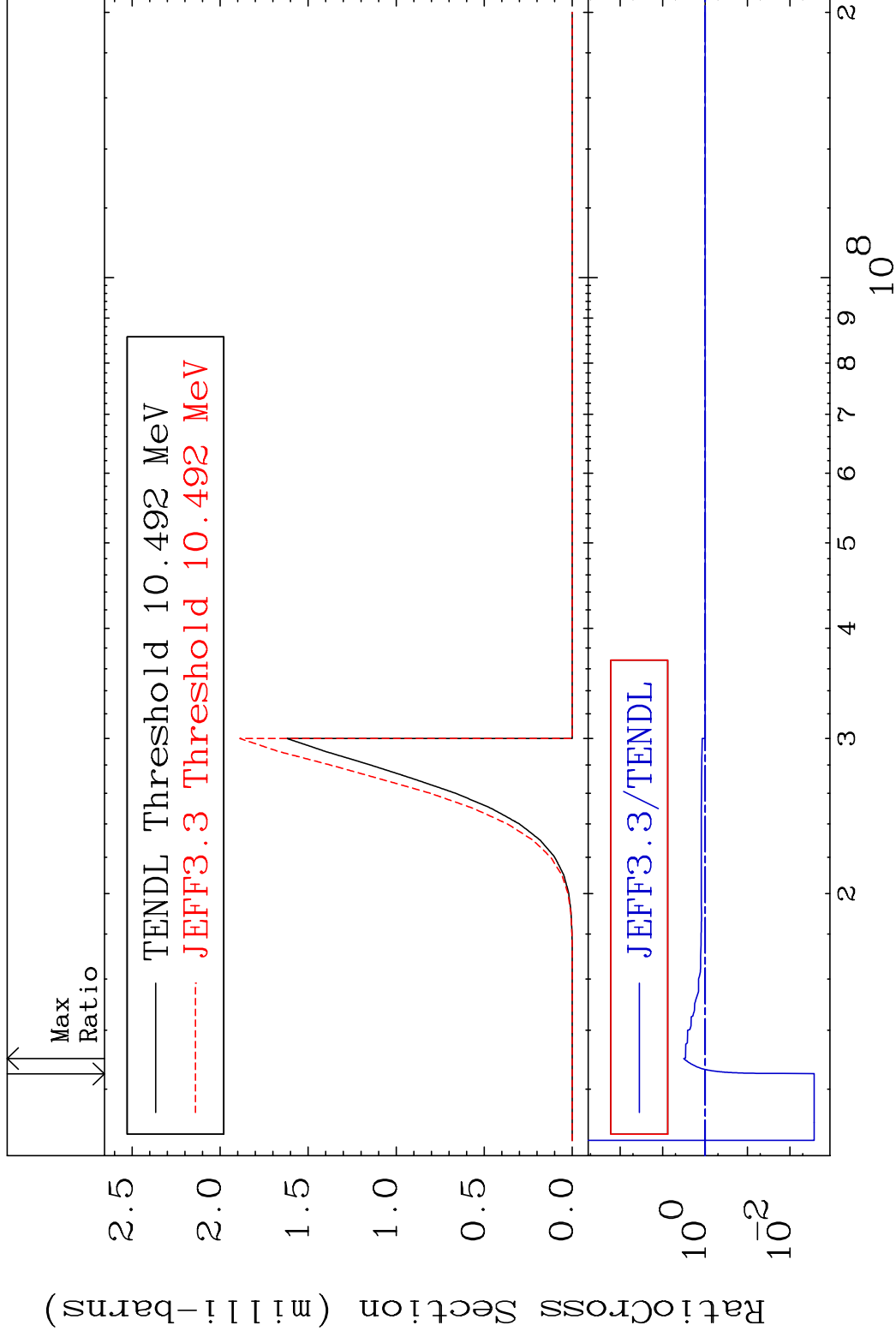
20-Ca-43

MAT 2034

(n,p) α

20-Ca-43

Cross Section -99.73 To 219.8 %

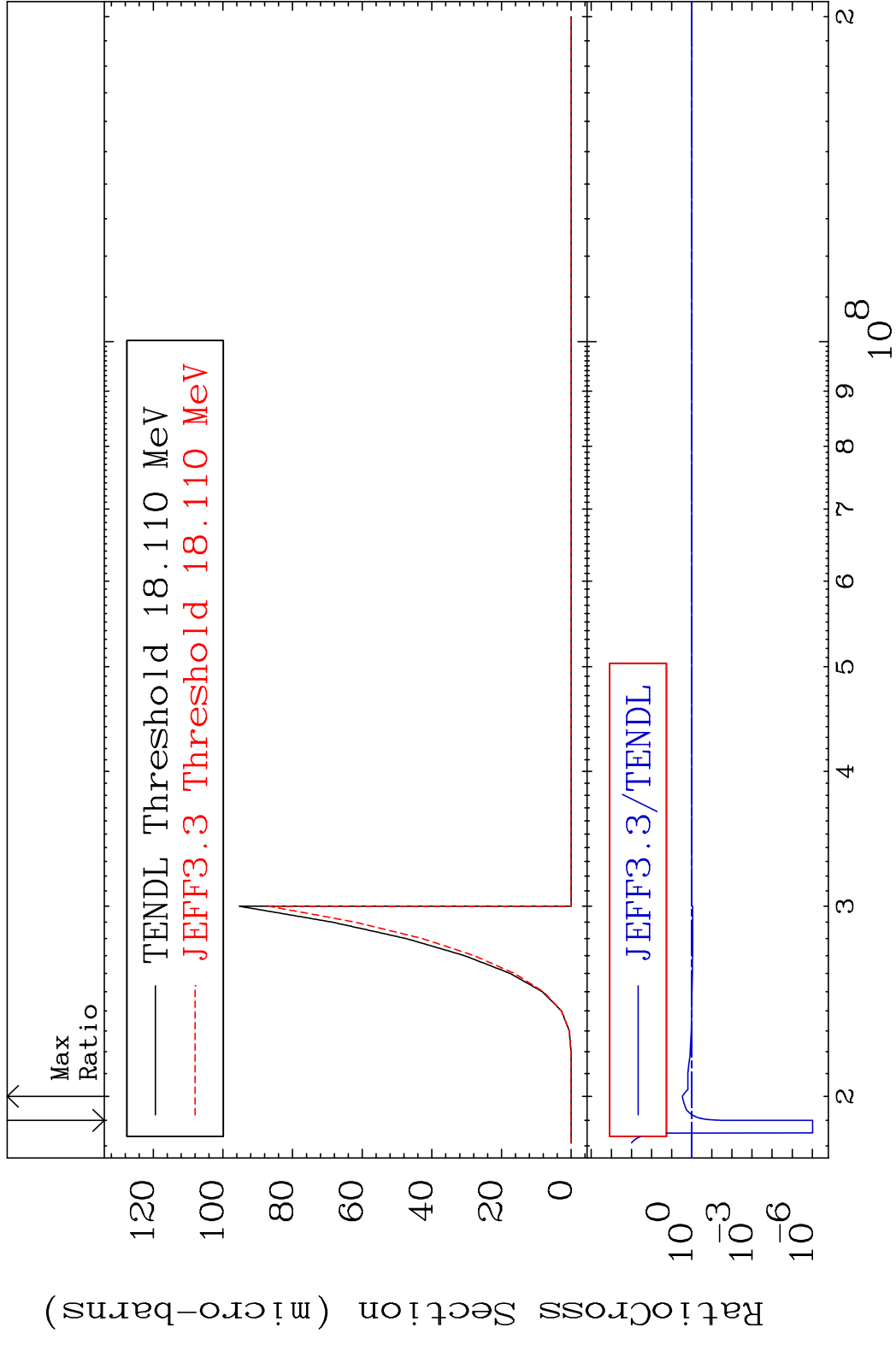


59

Incident Energy (eV)

20-Ca-43

MAT 2034 (n,p) d 20-Ca-43
 Cross Section -100.0 To 192.8 %



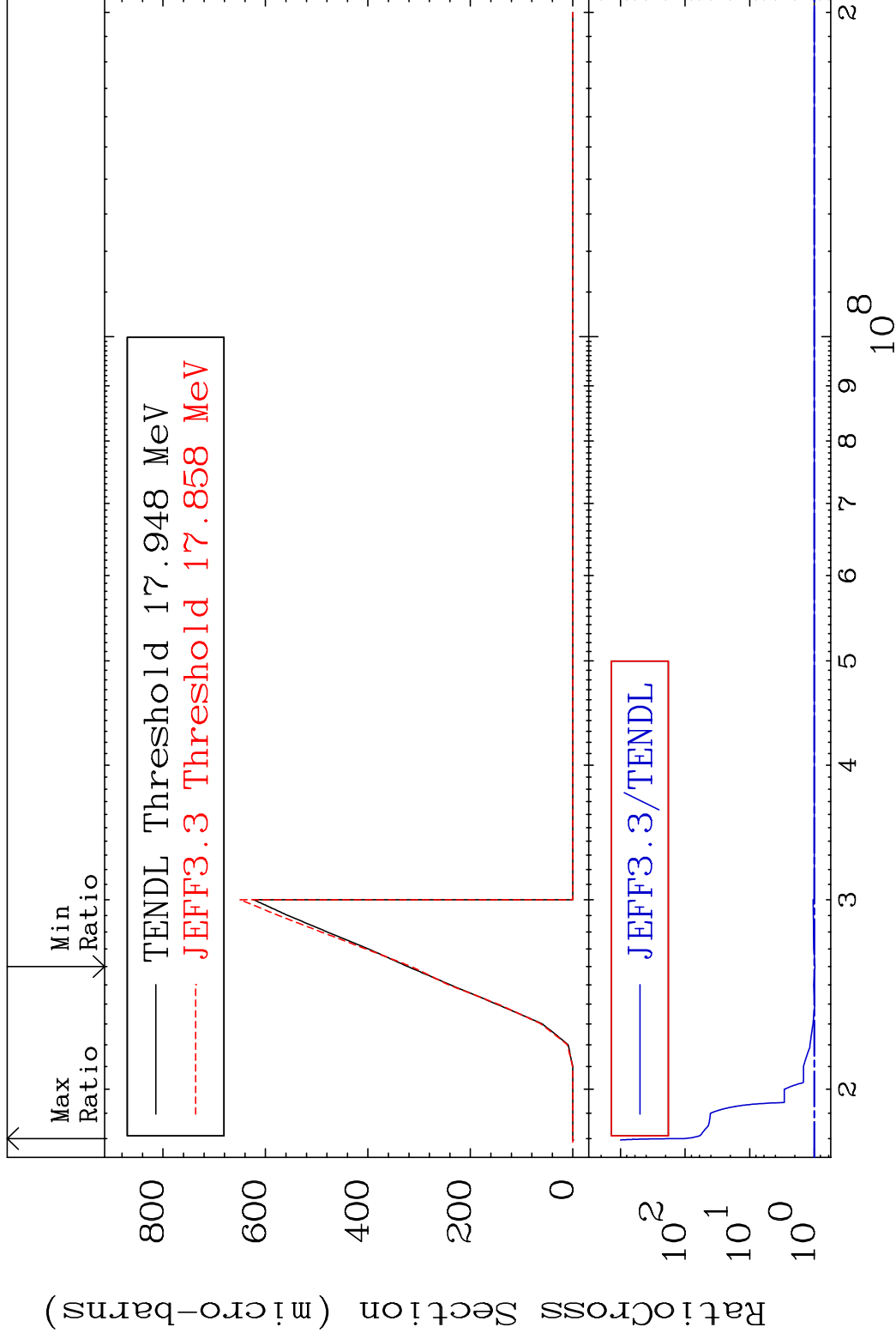
60 Incident Energy (eV) 20-Ca-43

MAT 2034

(n,p) t

20-Ca-43

Cross Section -2.213 To 9999. %

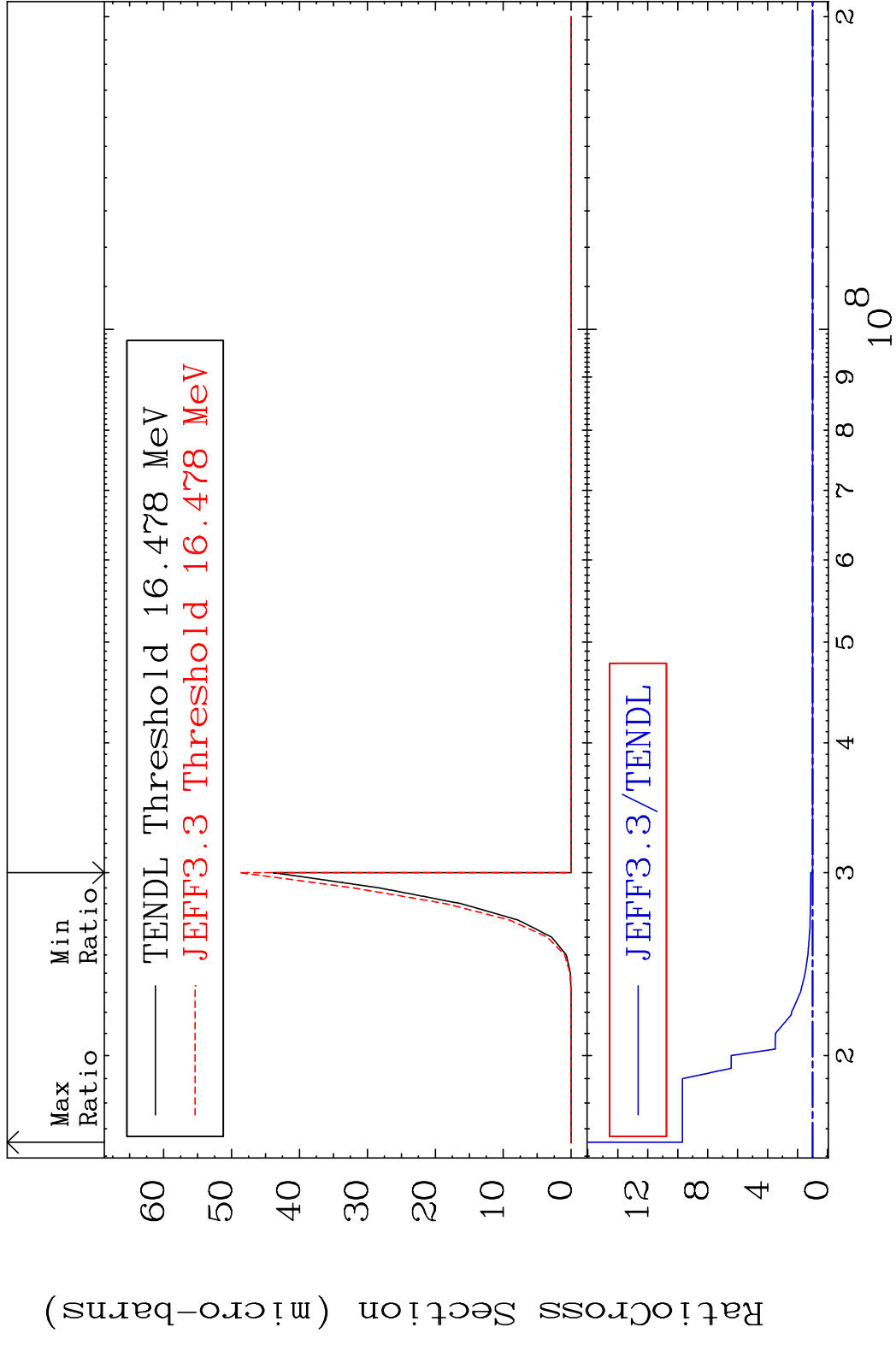


61

Incident Energy (eV)

20-Ca-43

MAT 2034 (n,d) α 20-Ca-43
 Cross Section 0.000 To 869.0 %

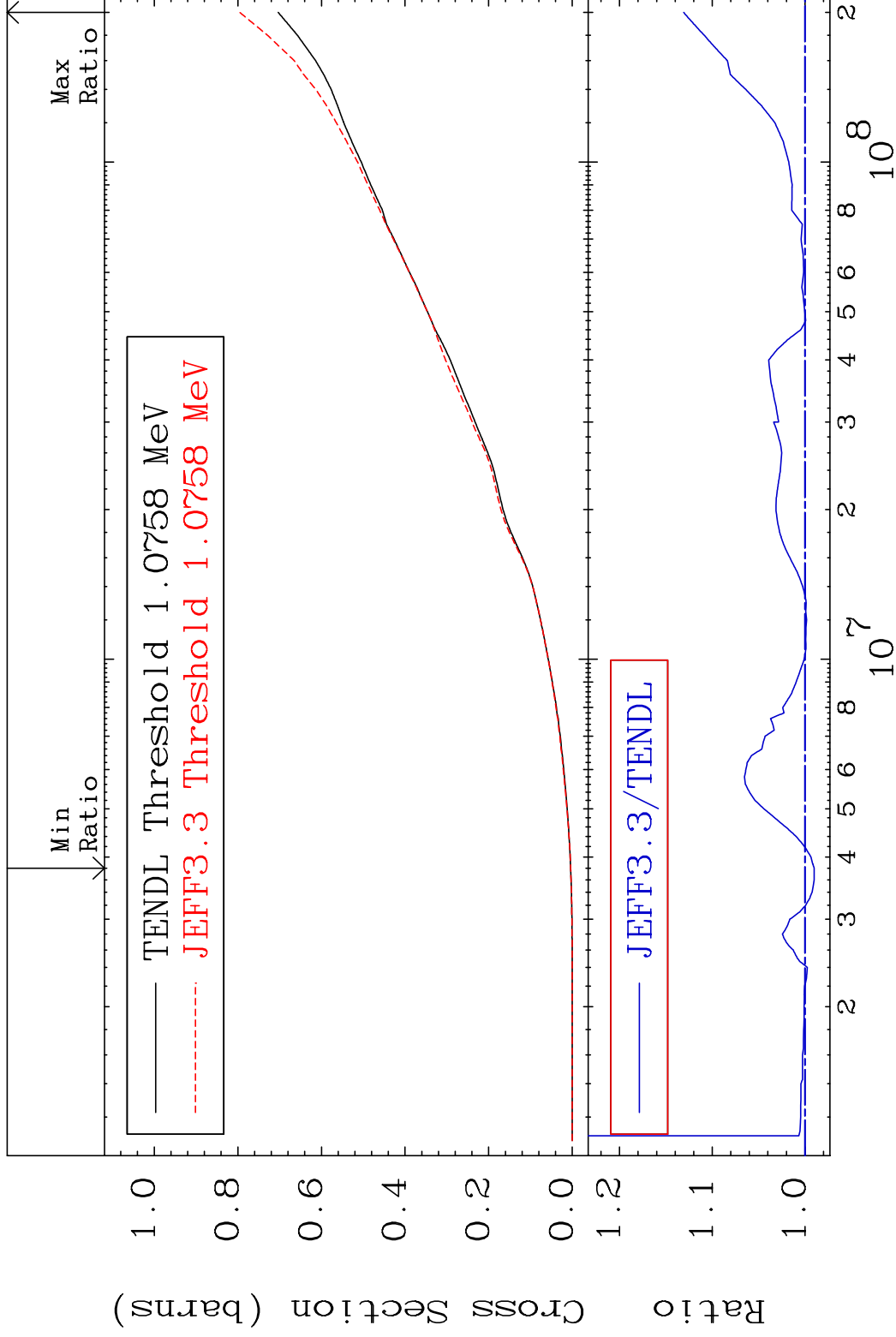


MAT 2034

Hydrogen Production

20-Ca-43

Cross Section -0.986 To 13.08 %



63

Incident Energy (eV)

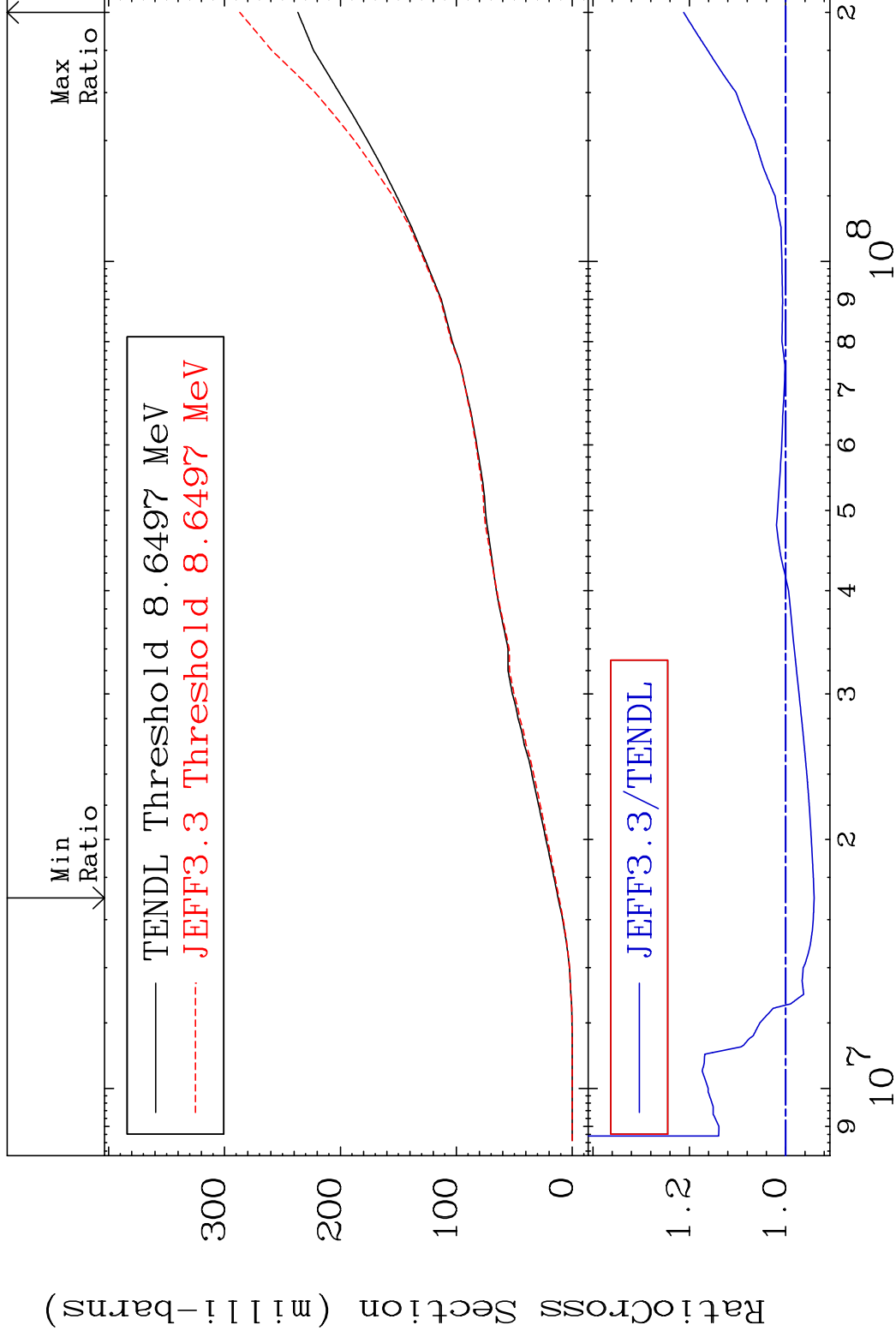
20-Ca-43

MAT 2034

Deuterium Production

20-Ca-43

Cross Section -5.899 To 21.17 %



64

Incident Energy (eV)

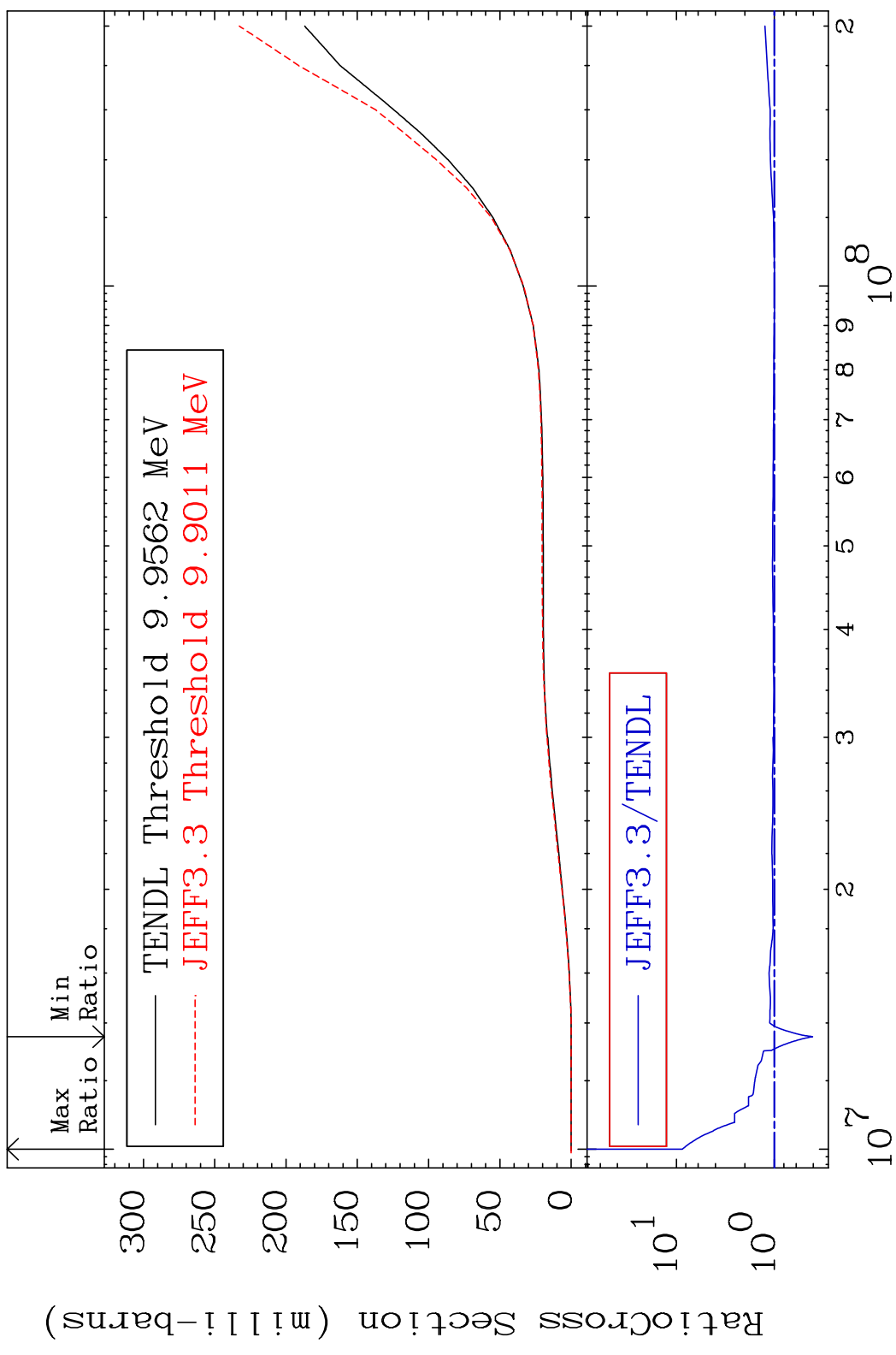
20-Ca-43

MAT 2034

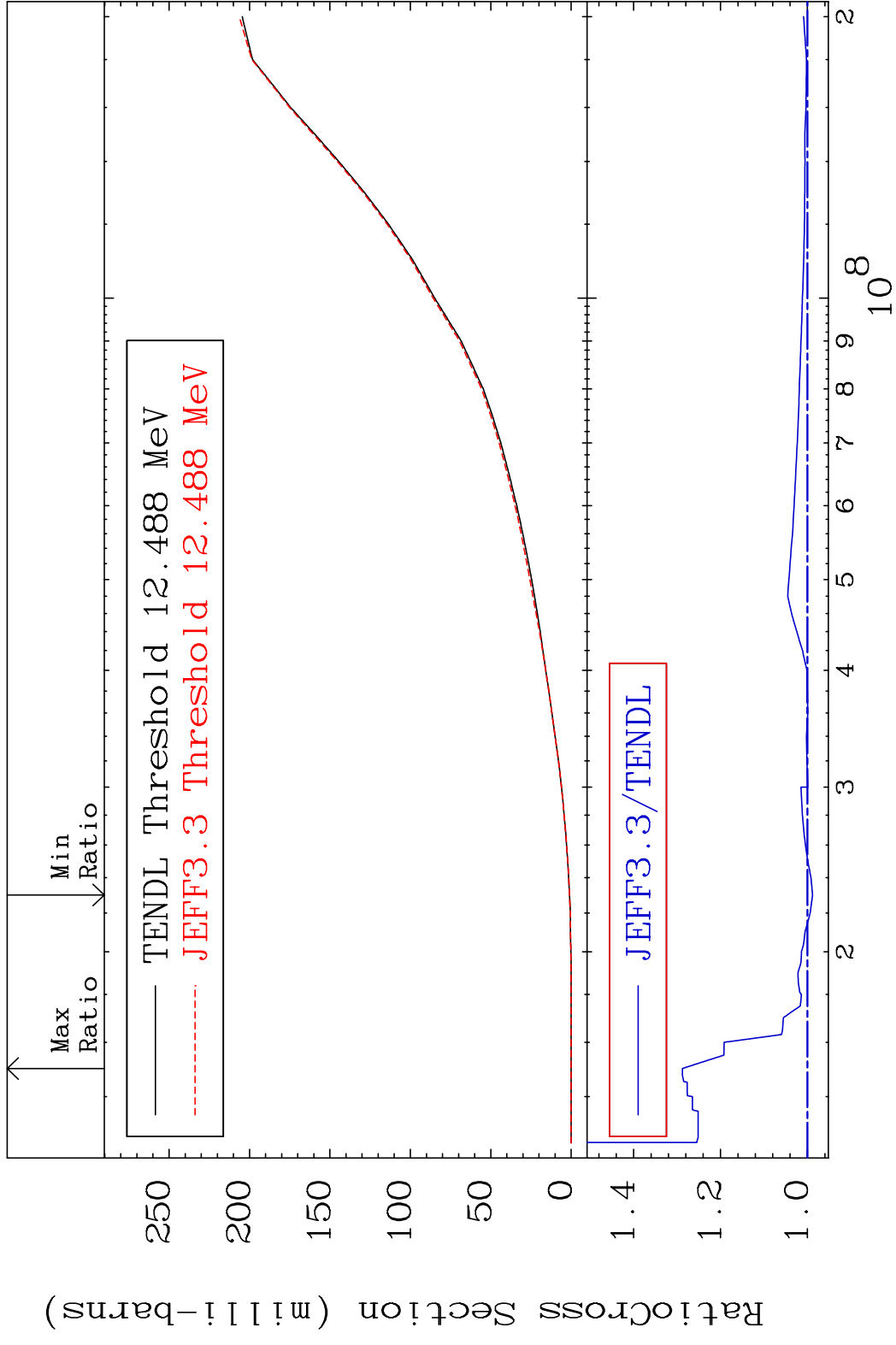
Tritium Production

20-Ca-43

Cross Section -59.25 To 769.9 %



Cross Section -1.175 To 28.80 %

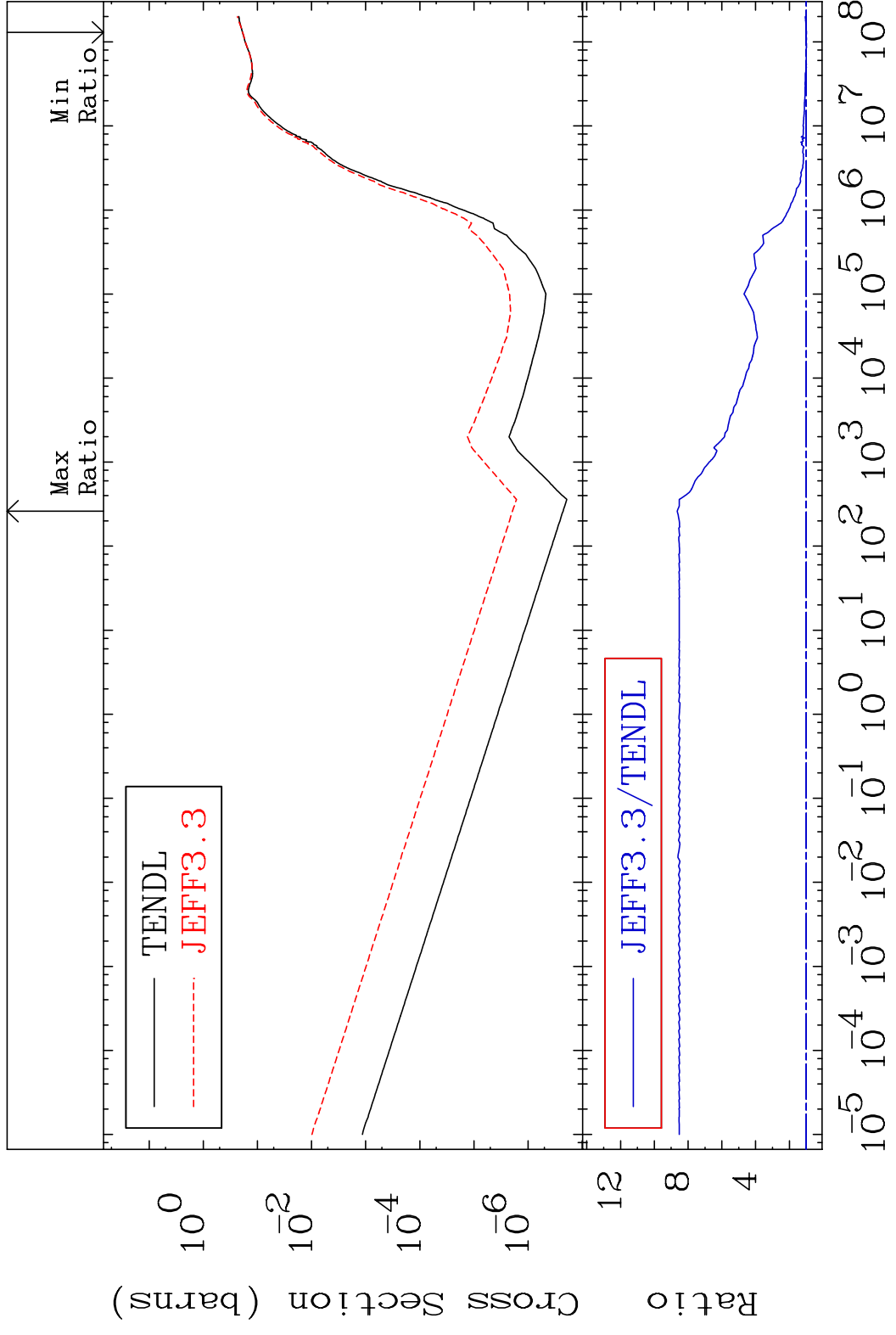


MAT 2034

He-4 Production

20-Ca-43

Cross Section -0.759 To 764.6 %

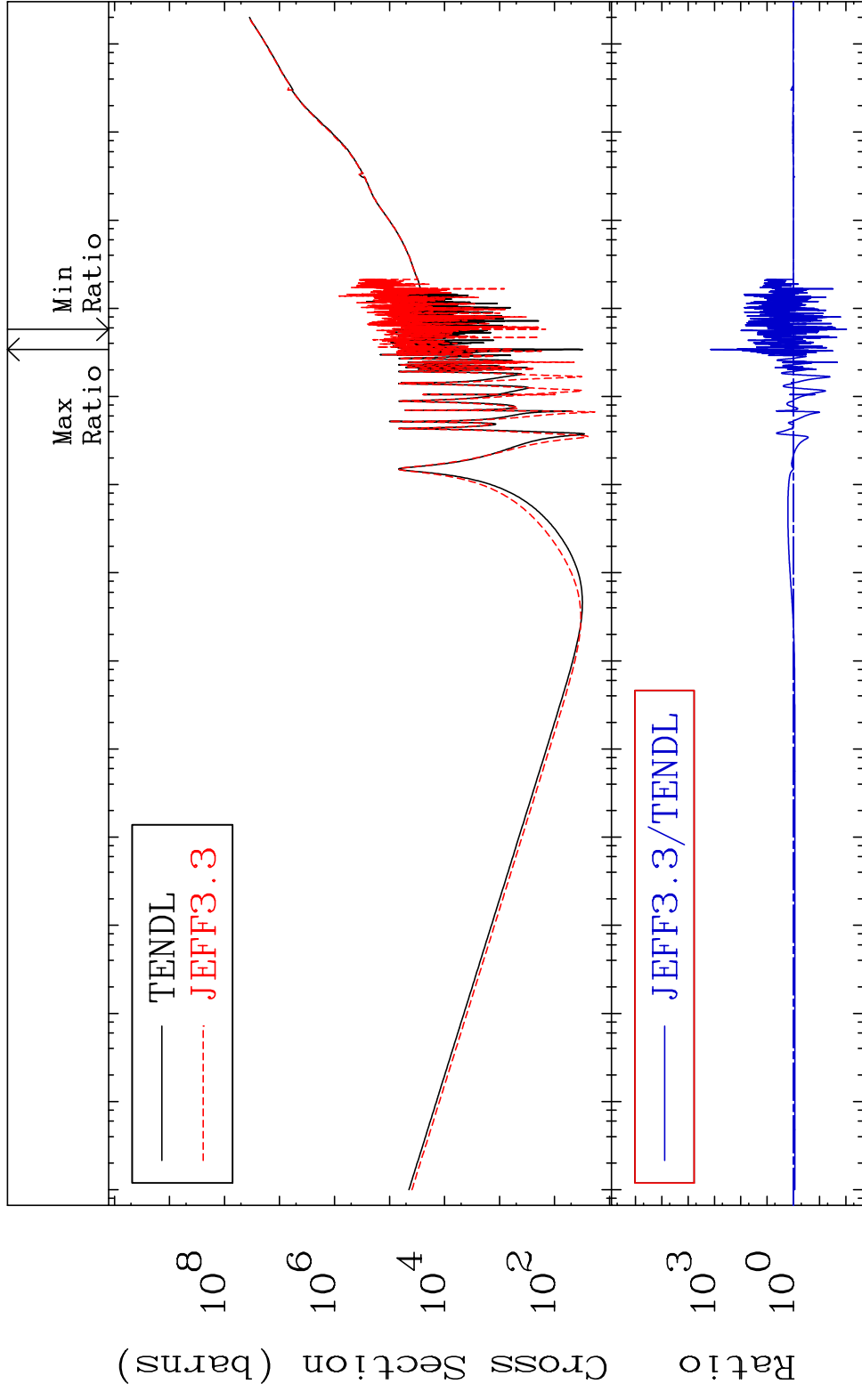


67

Incident Energy (eV)

20-Ca-43

MAT 2034 Kerma total (eV-barns) 20-Ca-43
 Cross Section -99.03 To 9999. %

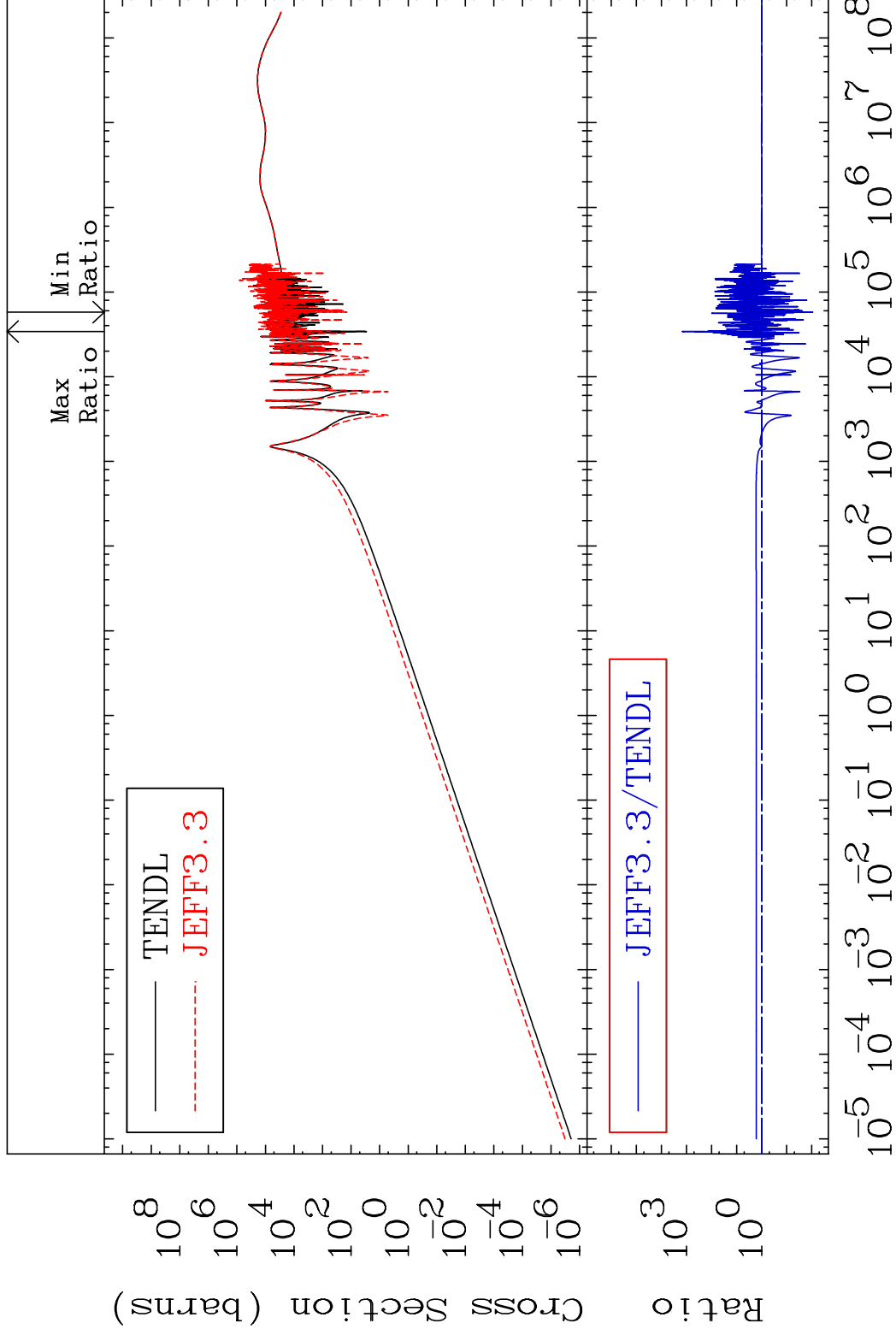


68 Incident Energy (eV) 20-Ca-43

MAT 2034

Kerma elastic
Cross Section

20-Ca-43
-99.07 To 9999. %

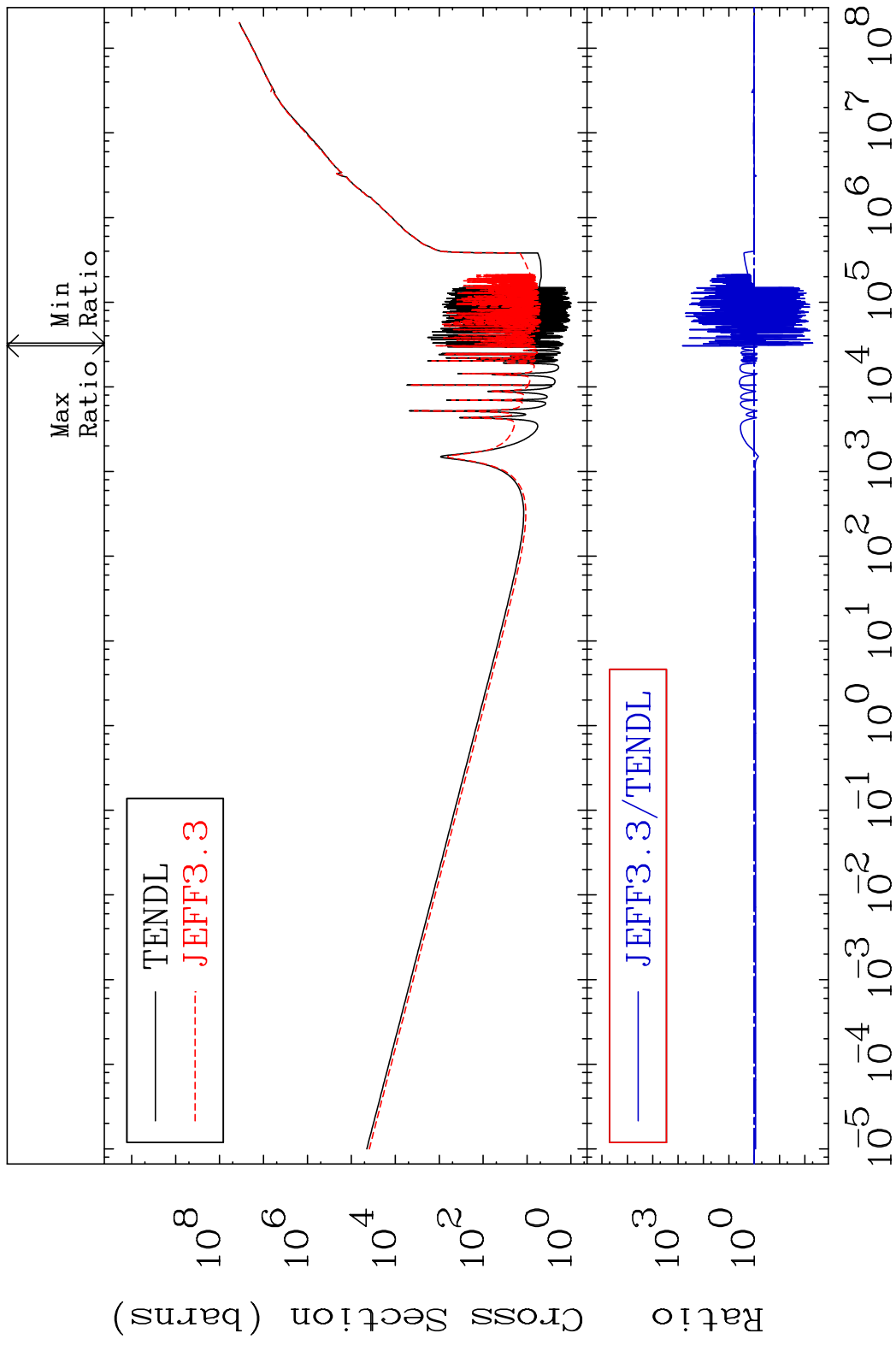


69

Incident Energy (eV)

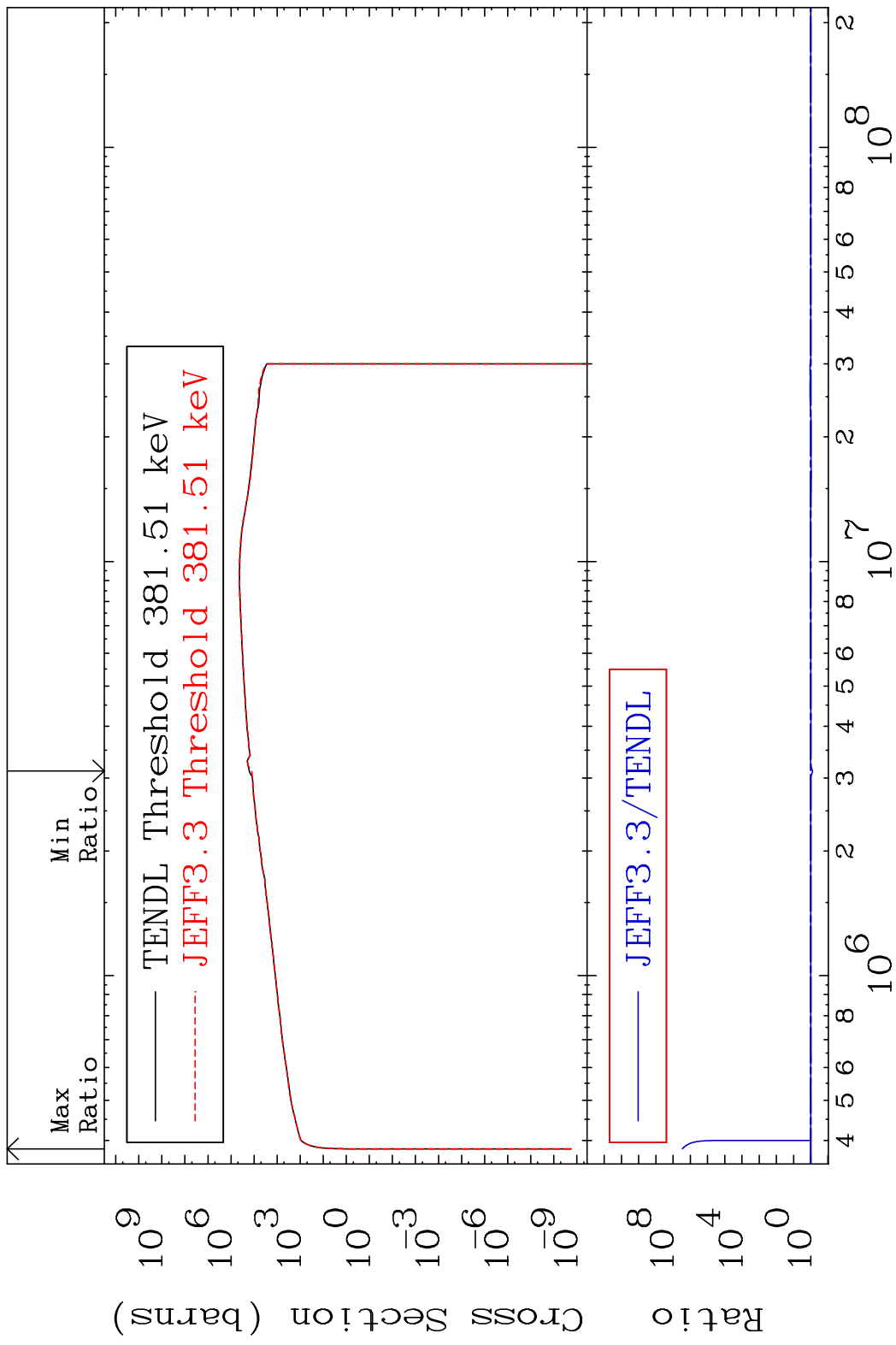
20-Ca-43

MAT 2034 Kerma non-elastic (all but mt2) 20-Ca-43
 Cross Section -99.50 To 9999. %

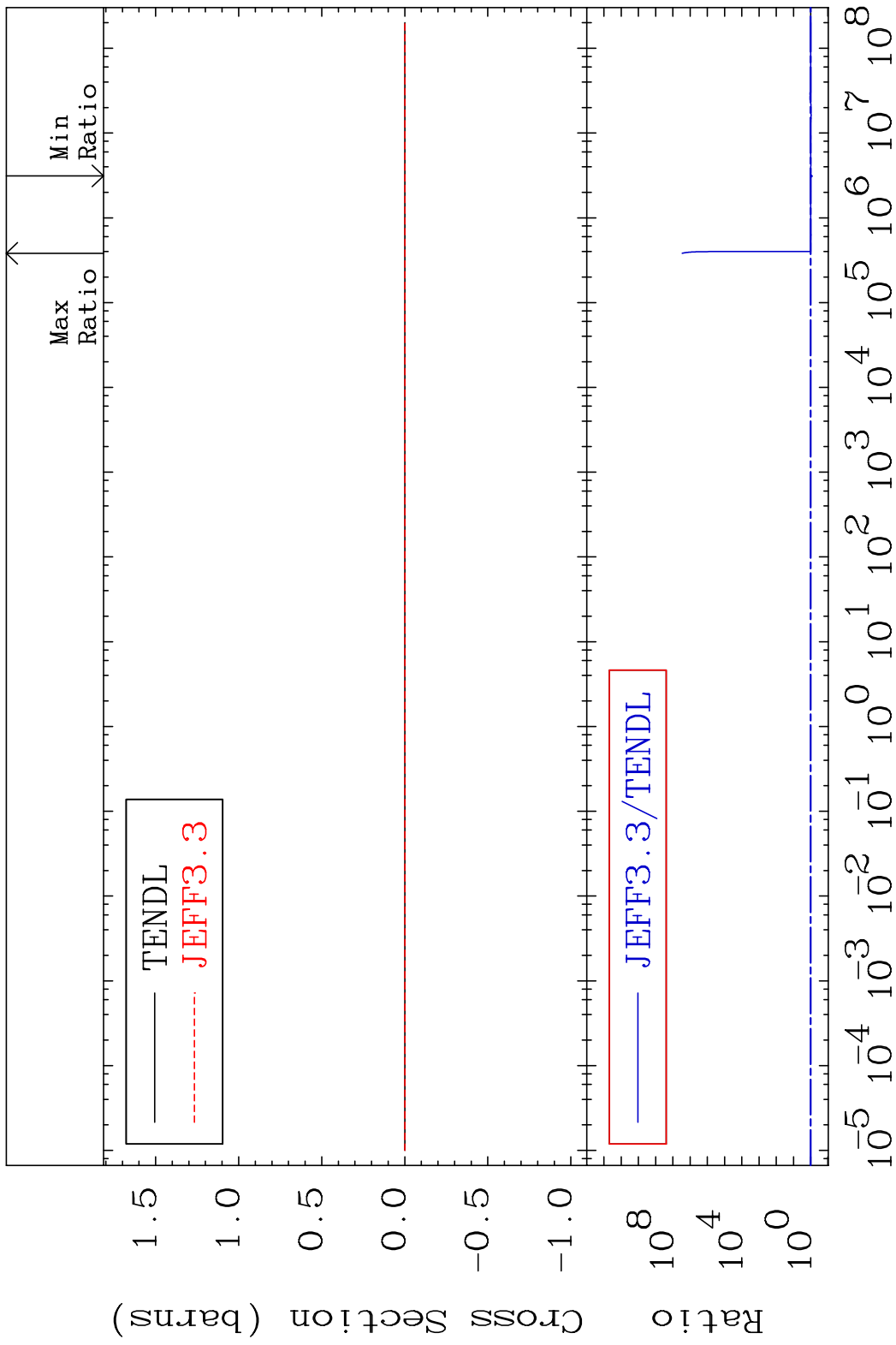


70 Incident Energy (eV) 20-Ca-43

MAT 2034 Kerma inelastic (mt51-91) 20-Ca-43
 Cross Section -21.11 To 9999. %



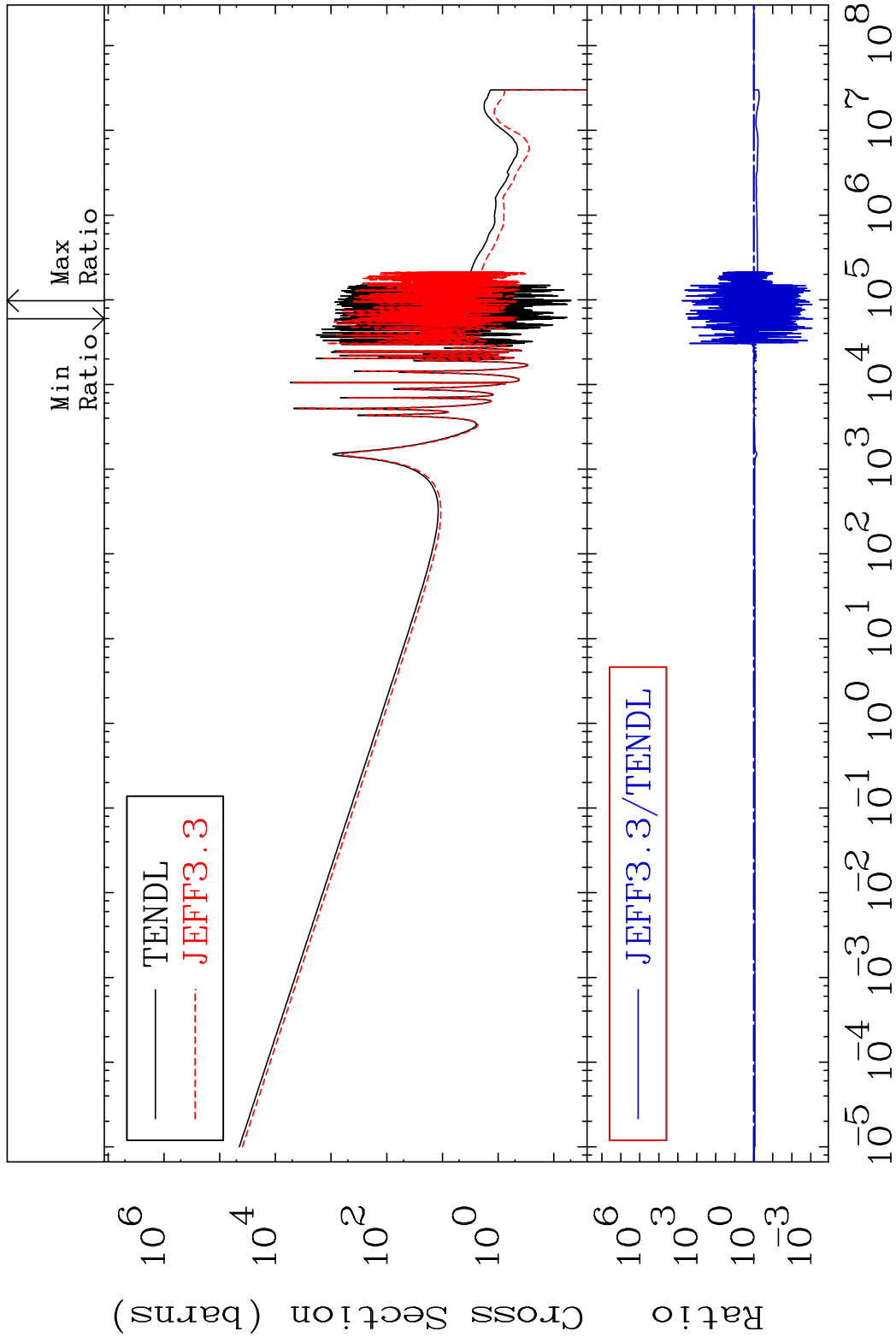
MAT 2034 Kerma fission (mt18 or mt19-20-21-38) 20-Ca-43
 Cross Section -21.11 To 9999. %



MAT 2034

Kerma capture (mt102) 20-Ca-43

Cross Section -99.92 To 9999. %

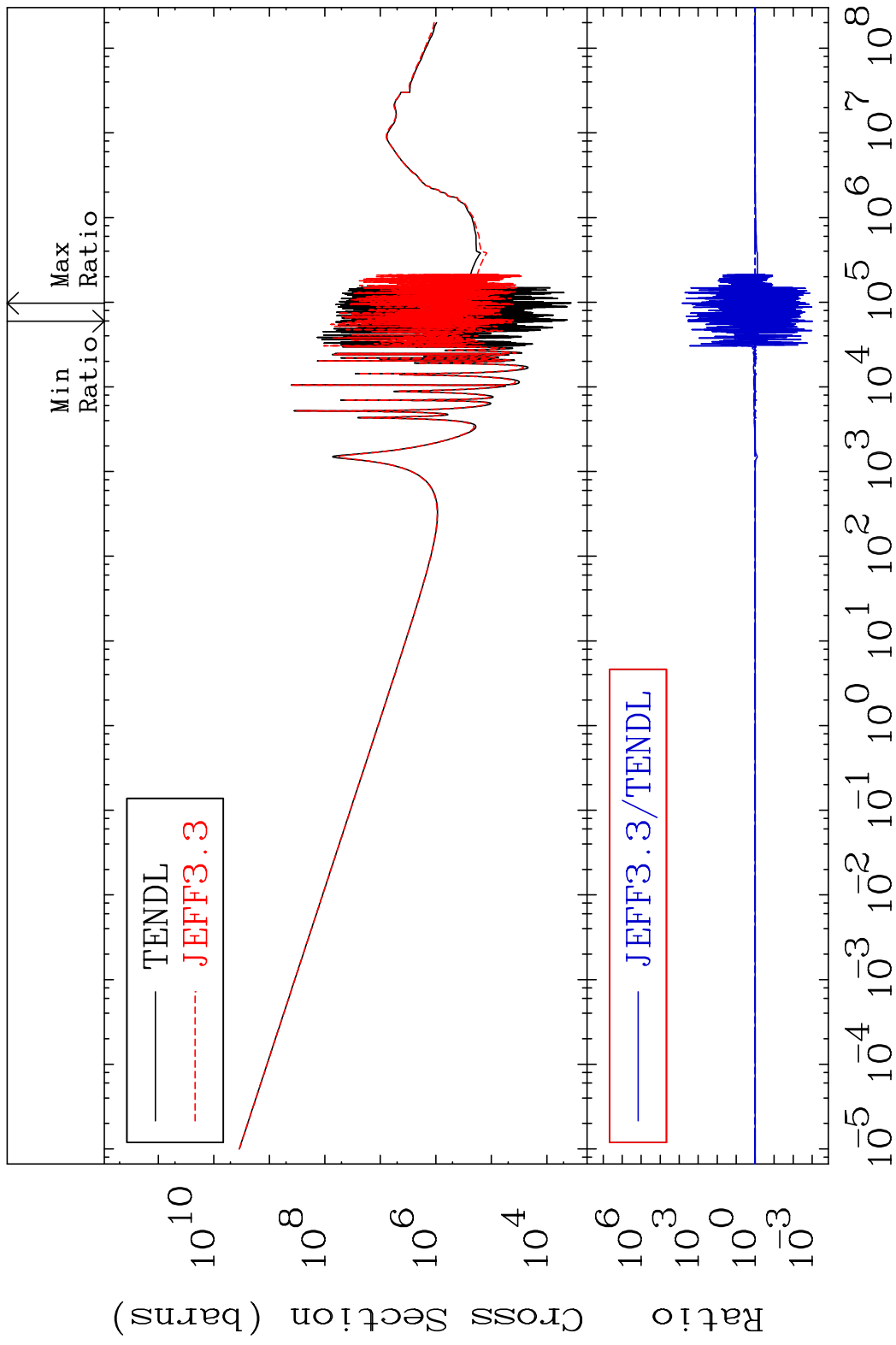


73

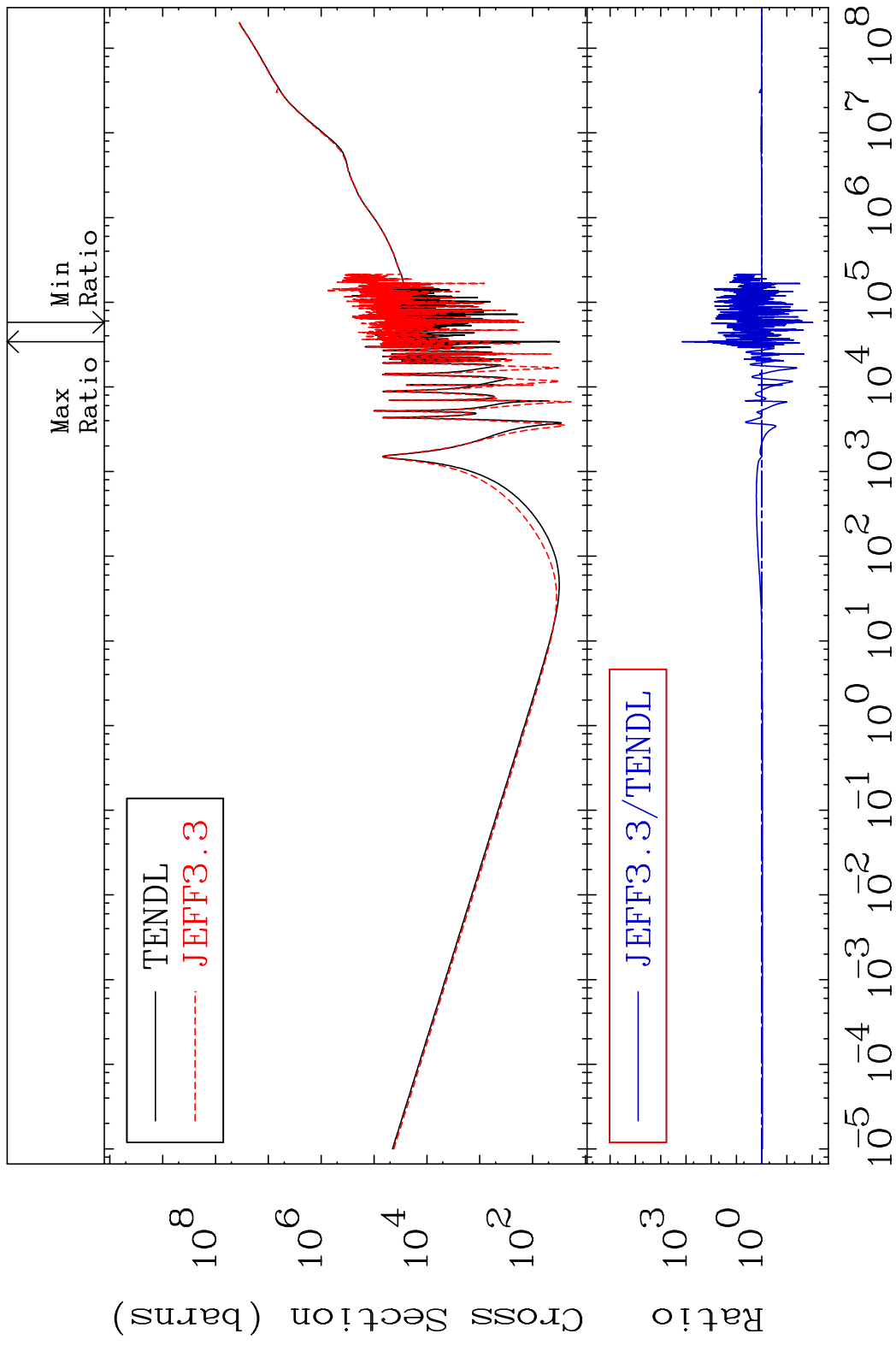
Incident Energy (eV)

20-Ca-43

MAT 2034 Total photon (eV-barns) 20-Ca-43
 Cross Section -99.90 To 9999. %



MAT 2034 Total kinematic kerma (high limit) 20-Ca-43
Cross Section -99.03 To 9999. %



75 Incident Energy (eV) 20-Ca-43

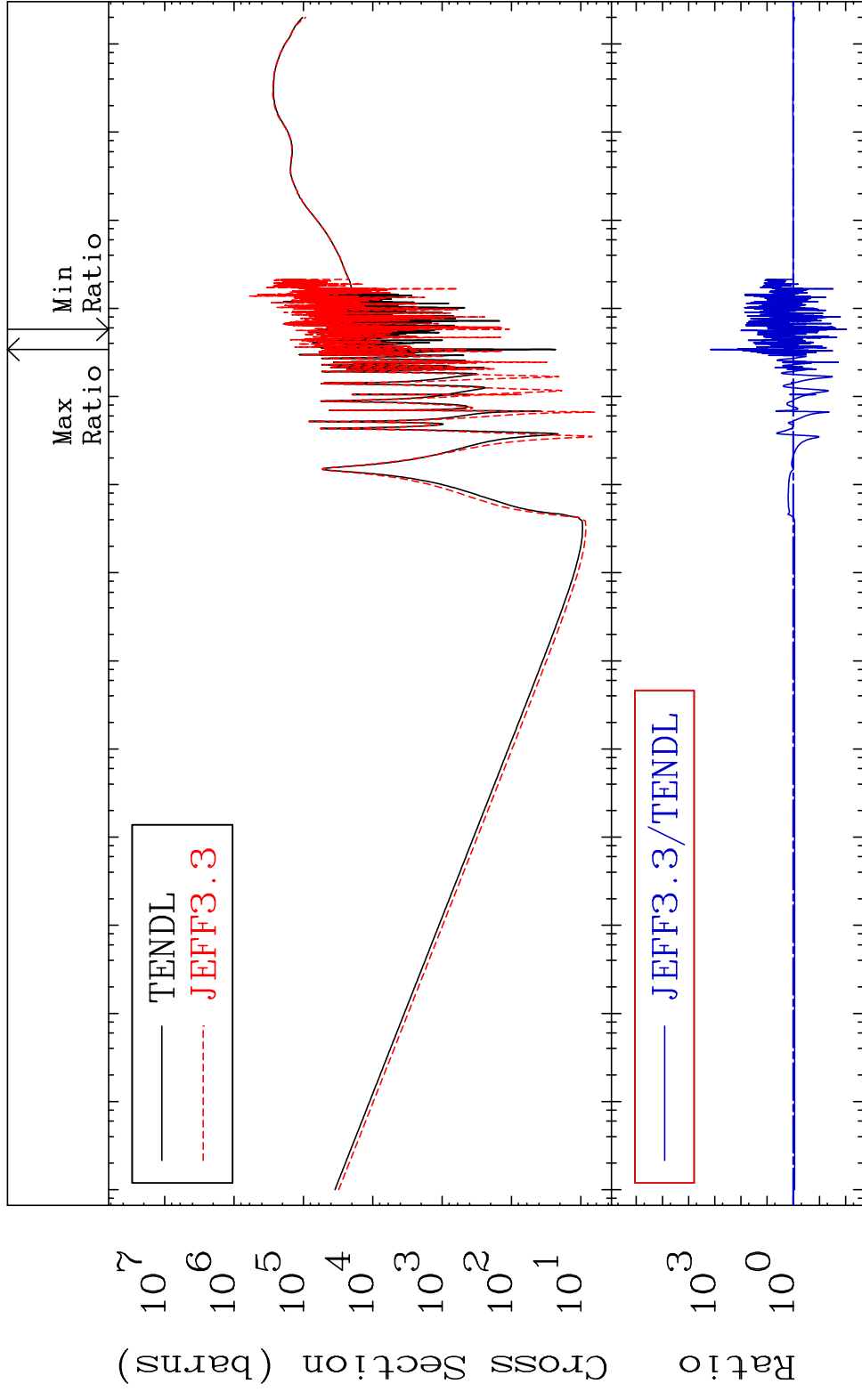
MAT 2034

Dpa total (eV-barns)

20-Ca-43

Cross Section

-99.06 To 9999. %



76

Incident Energy (eV)

20-Ca-43

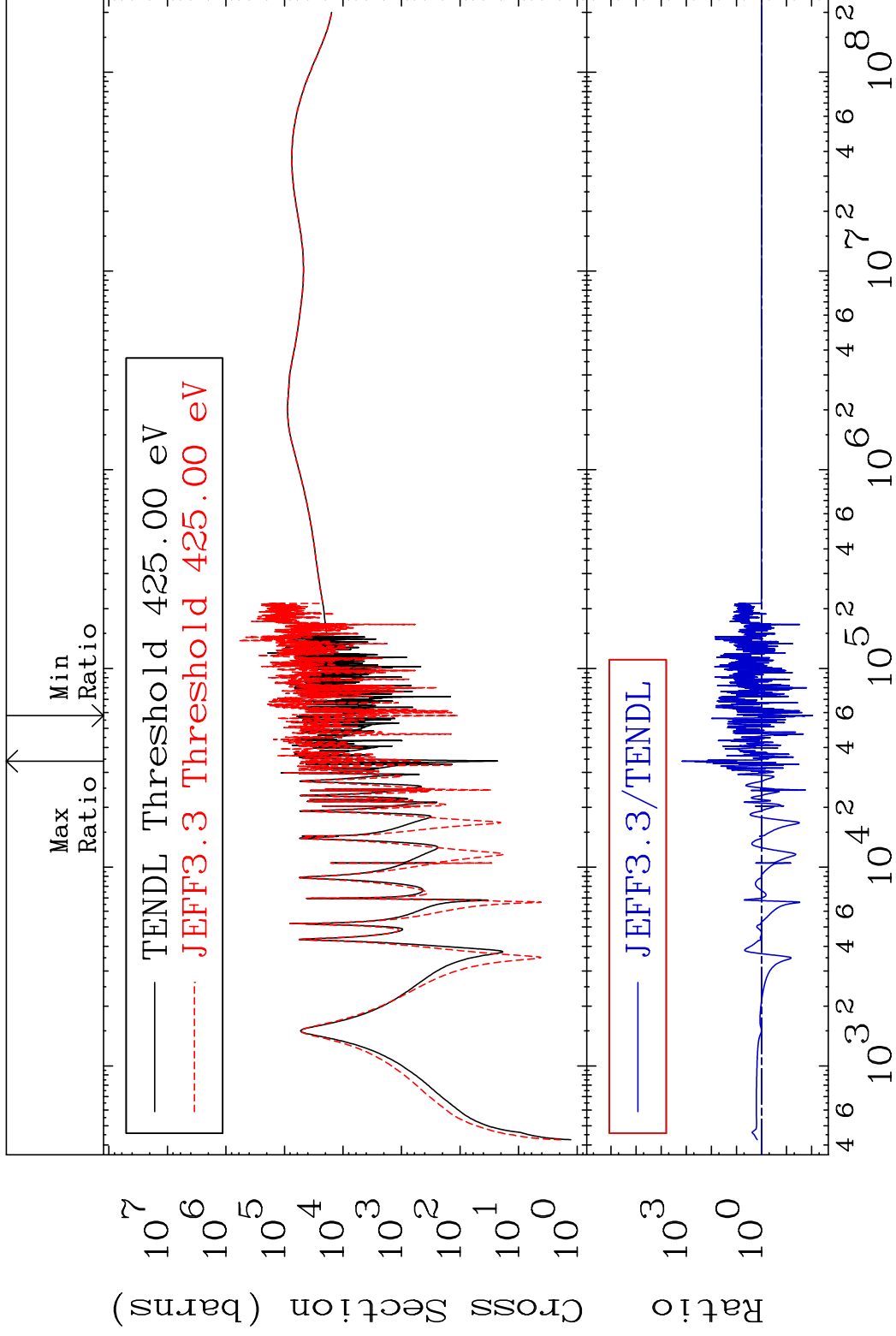
MAT 2034

Dpa elastic (mt2)

20-Ca-43

Cross Section

-99.07 To 9999. %

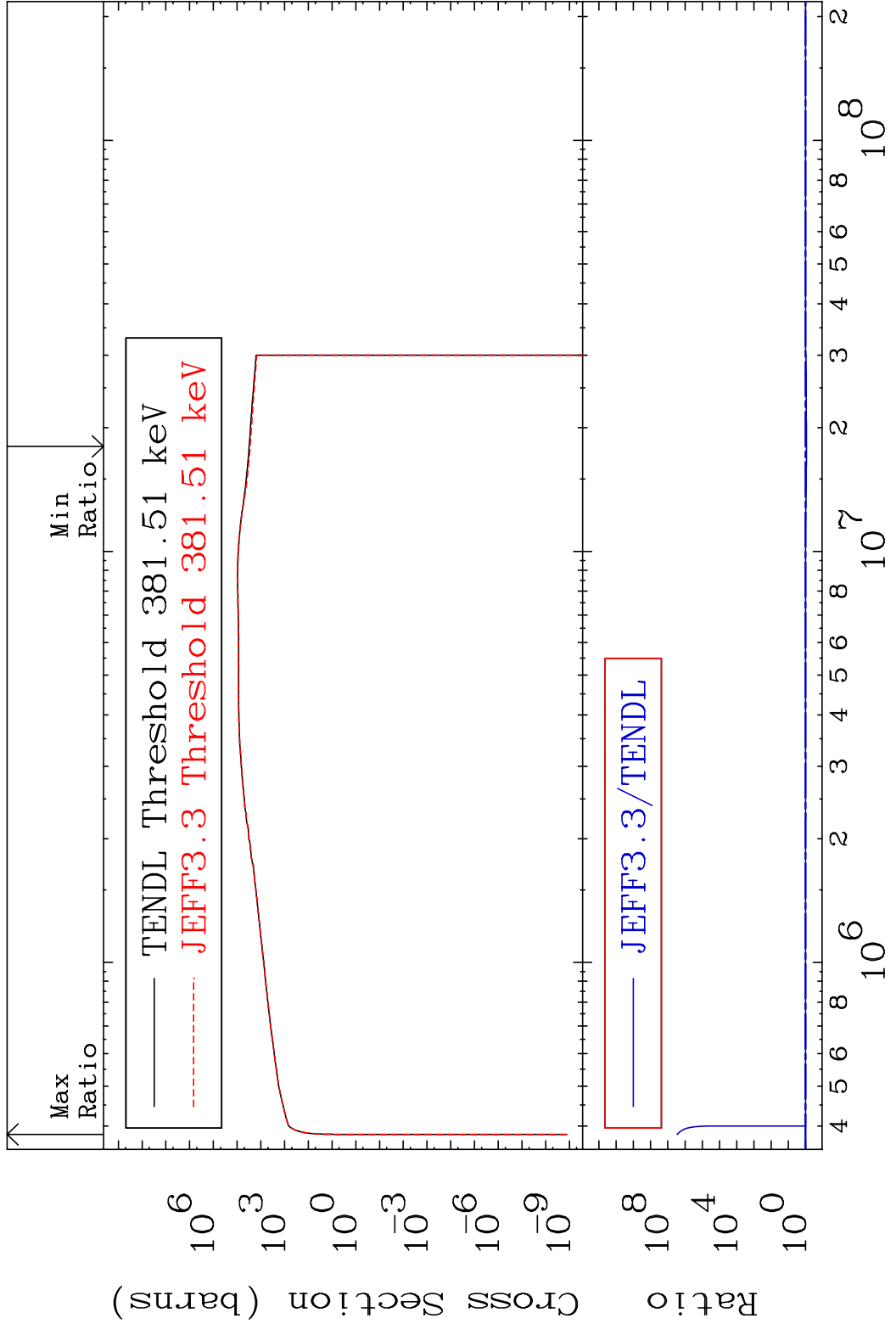


77

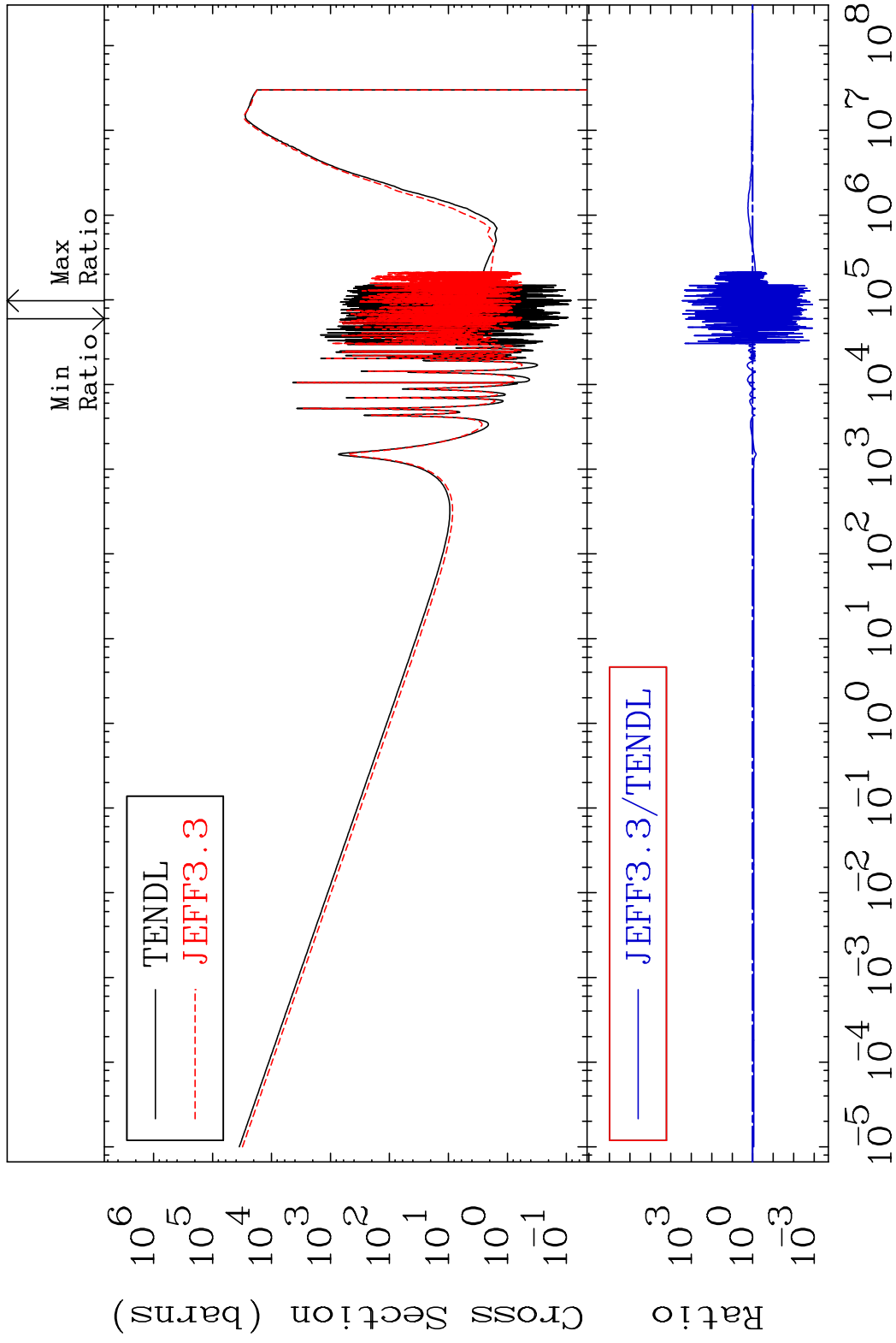
Incident Energy (eV)

20-Ca-43

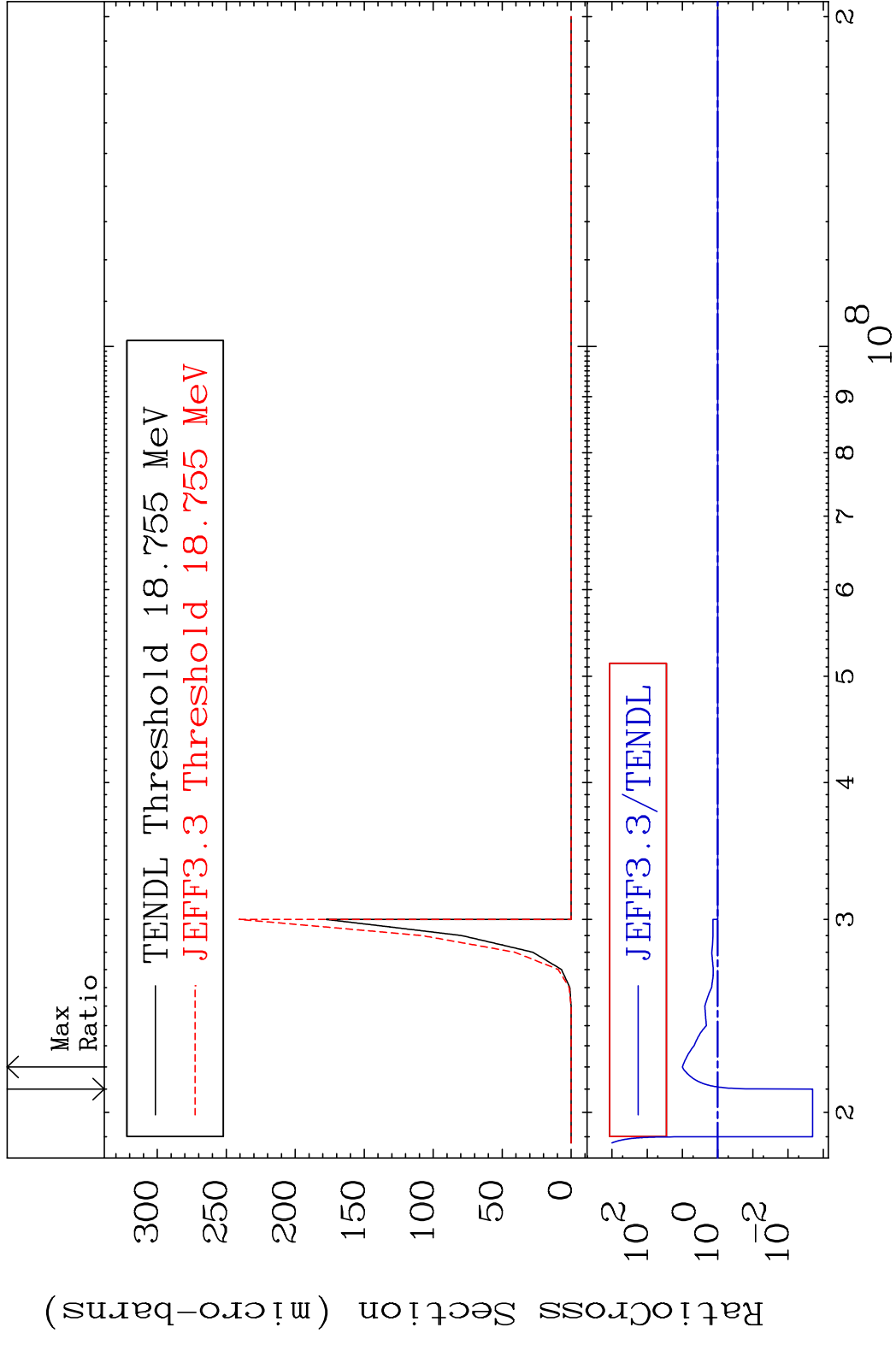
MAT 2034 Dpa inelastic (mt51-91) 20-Ca-43
 Cross Section -9.558 To 9999. %



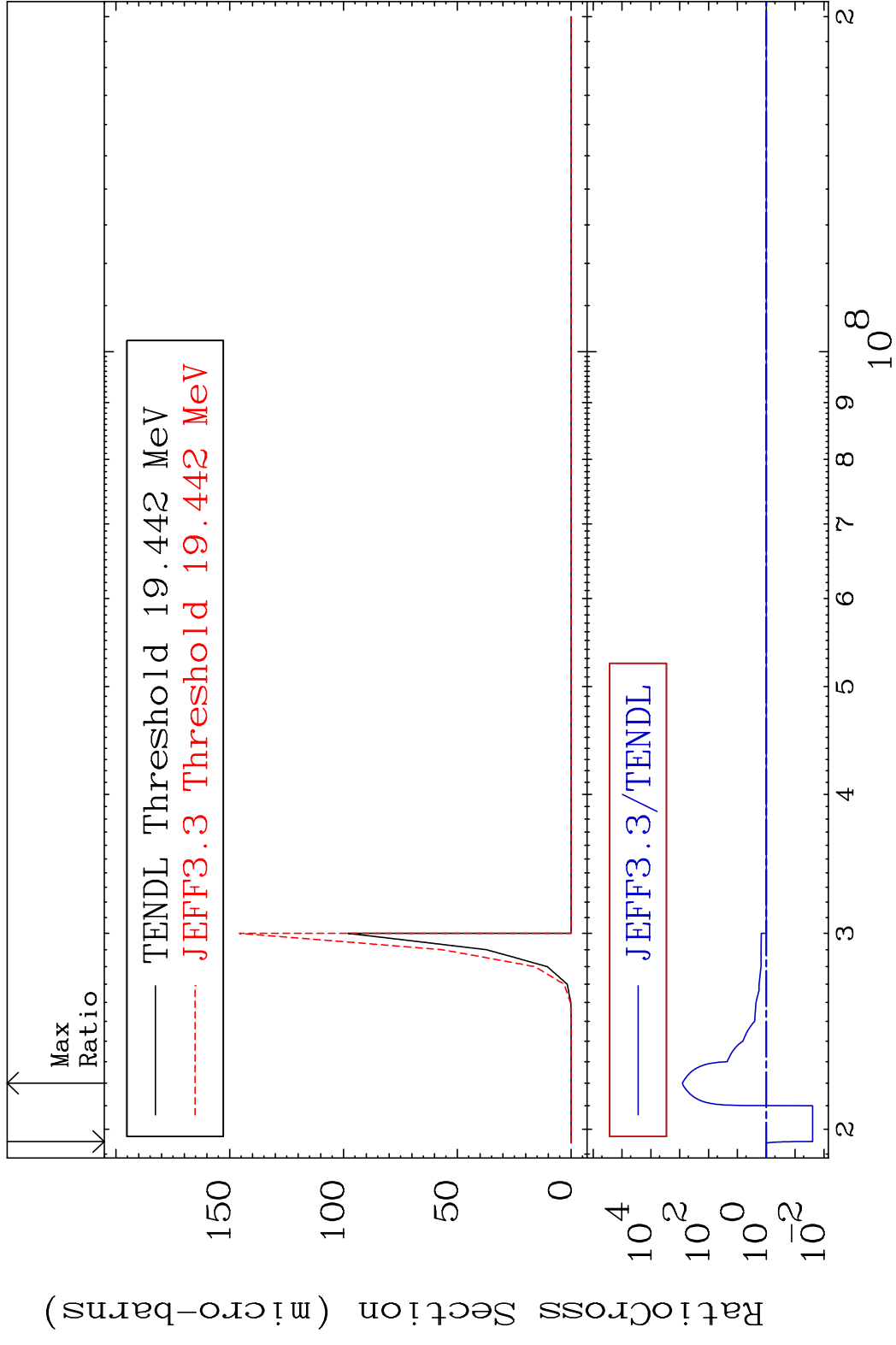
MAT 2034 Dpa disappearance (mt102 -120) 20-Ca-43
 Cross Section -99.88 To 9999. %

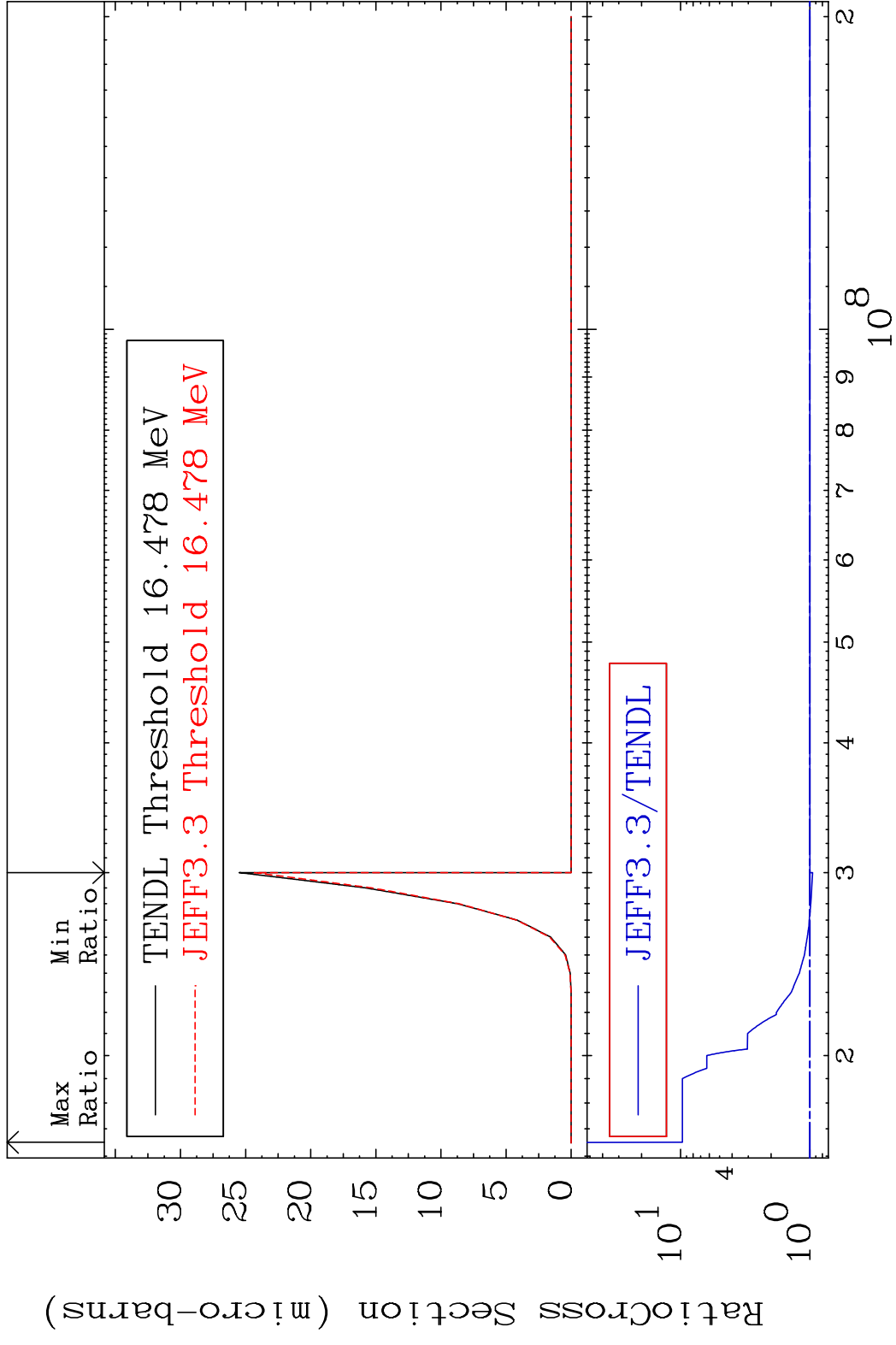


MAT 2034 (n, n') p α : 17-C1-38g 20-Ca-43
 Radionuclide Production Cross Section 98.60 dth 902.6 %



MAT 2034 (n, n') p α : 17-C1-38m1 20-Ca-43
 Radionuclide Production Cross Section 9999. %





MAT 2034 (n, d) α :17-C1-38m1 20-Ca-43
 Radionuclide Production Cross Section 5338. %

