

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

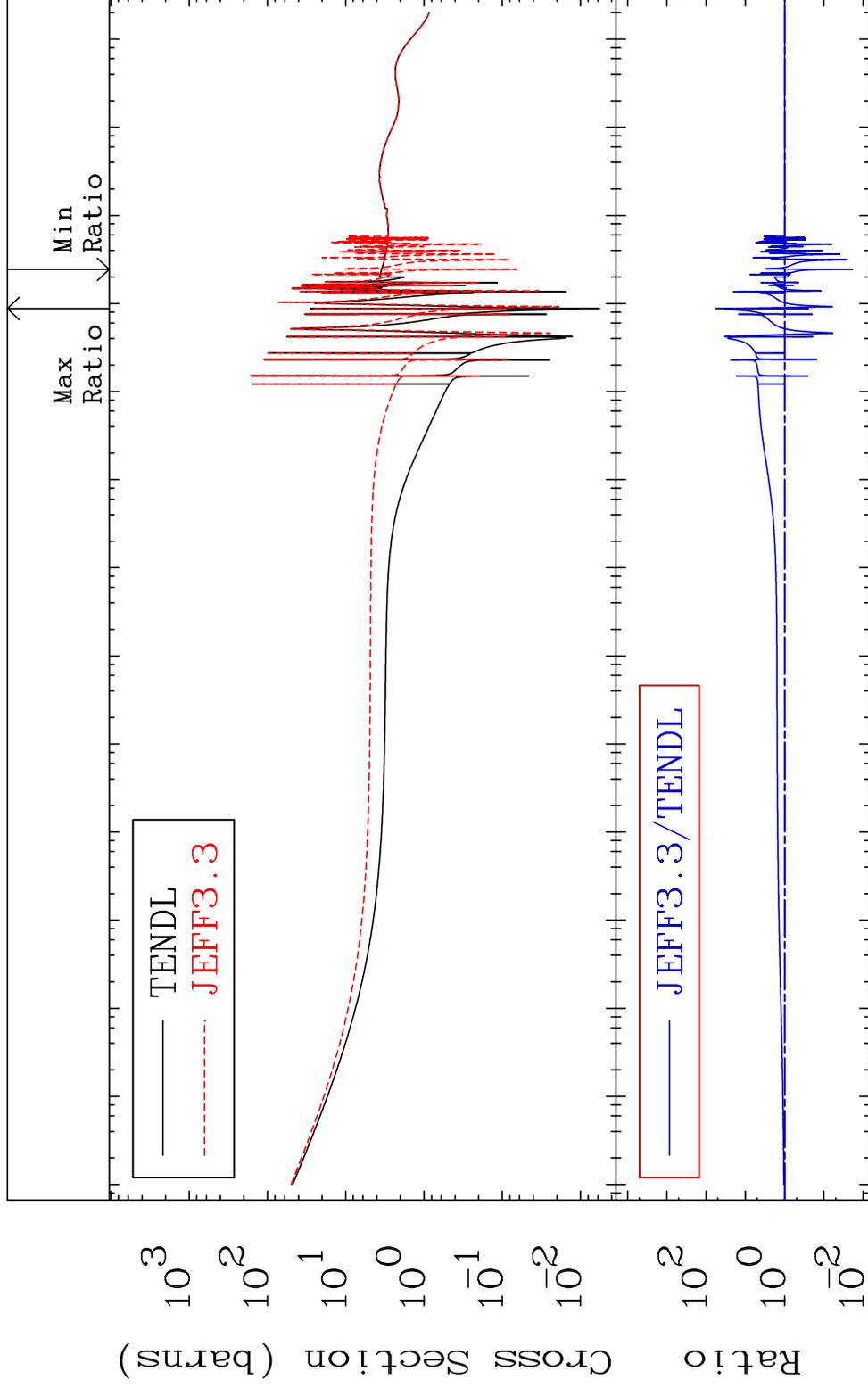
Press Mouse Button to Start

MAT 2037

Total

20-Ca-44

Cross Section -98.13 To 5531. %



1

Incident Energy (eV)

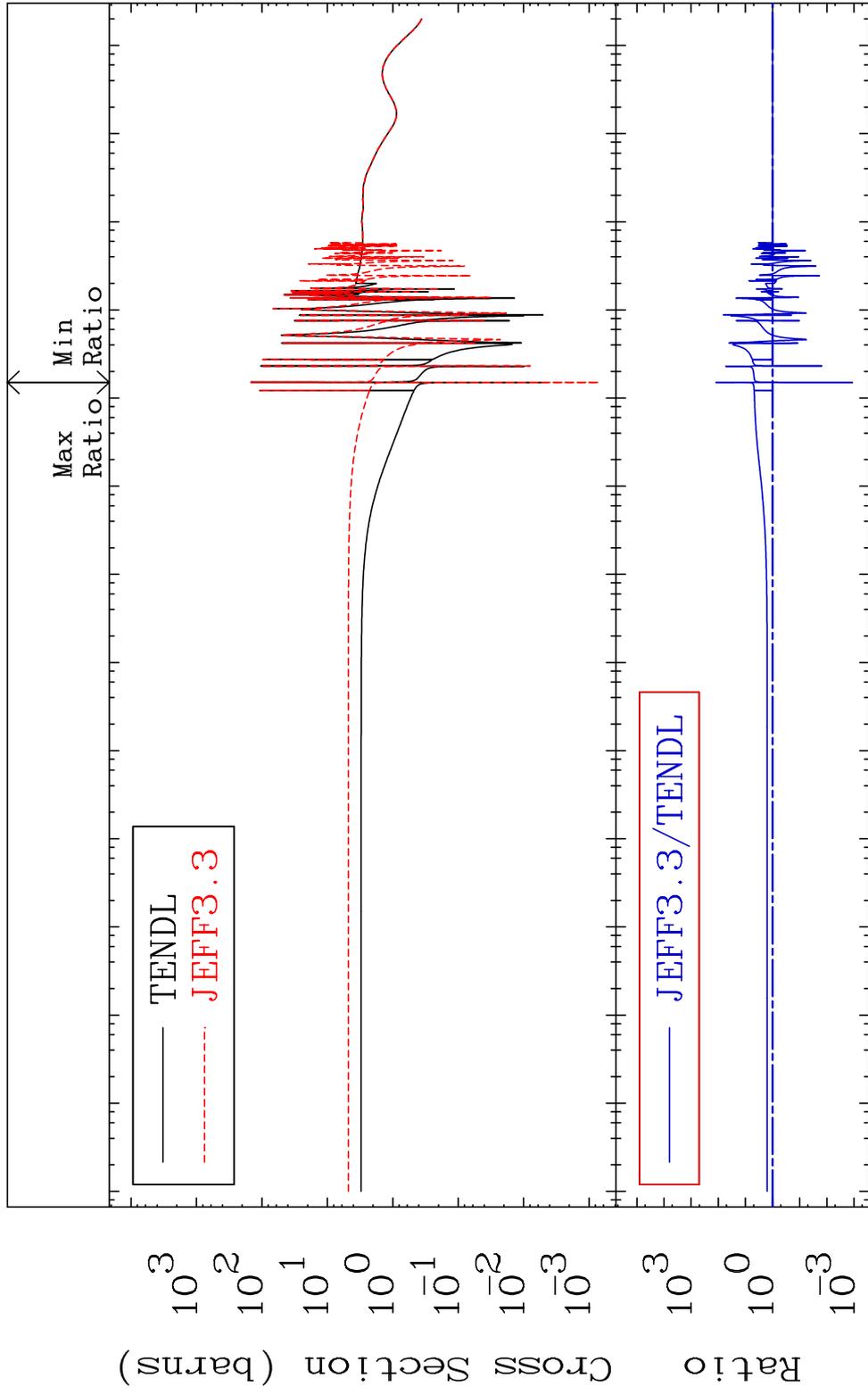
20-Ca-44

MAT 2037

Elastic

20-Ca-44

Cross Section -99.89 To 9999. %



2

Incident Energy (eV)

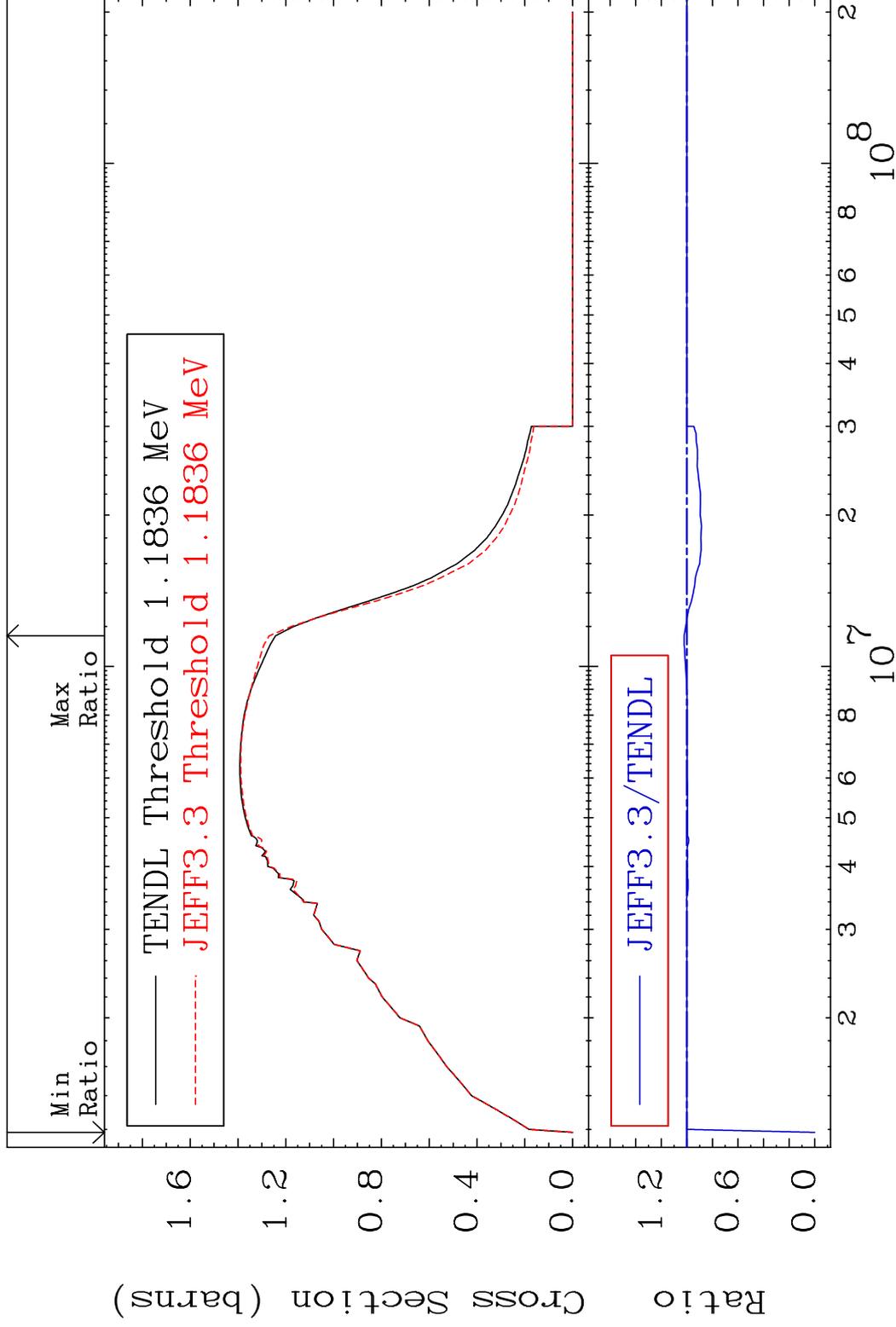
20-Ca-44

MAT 2037

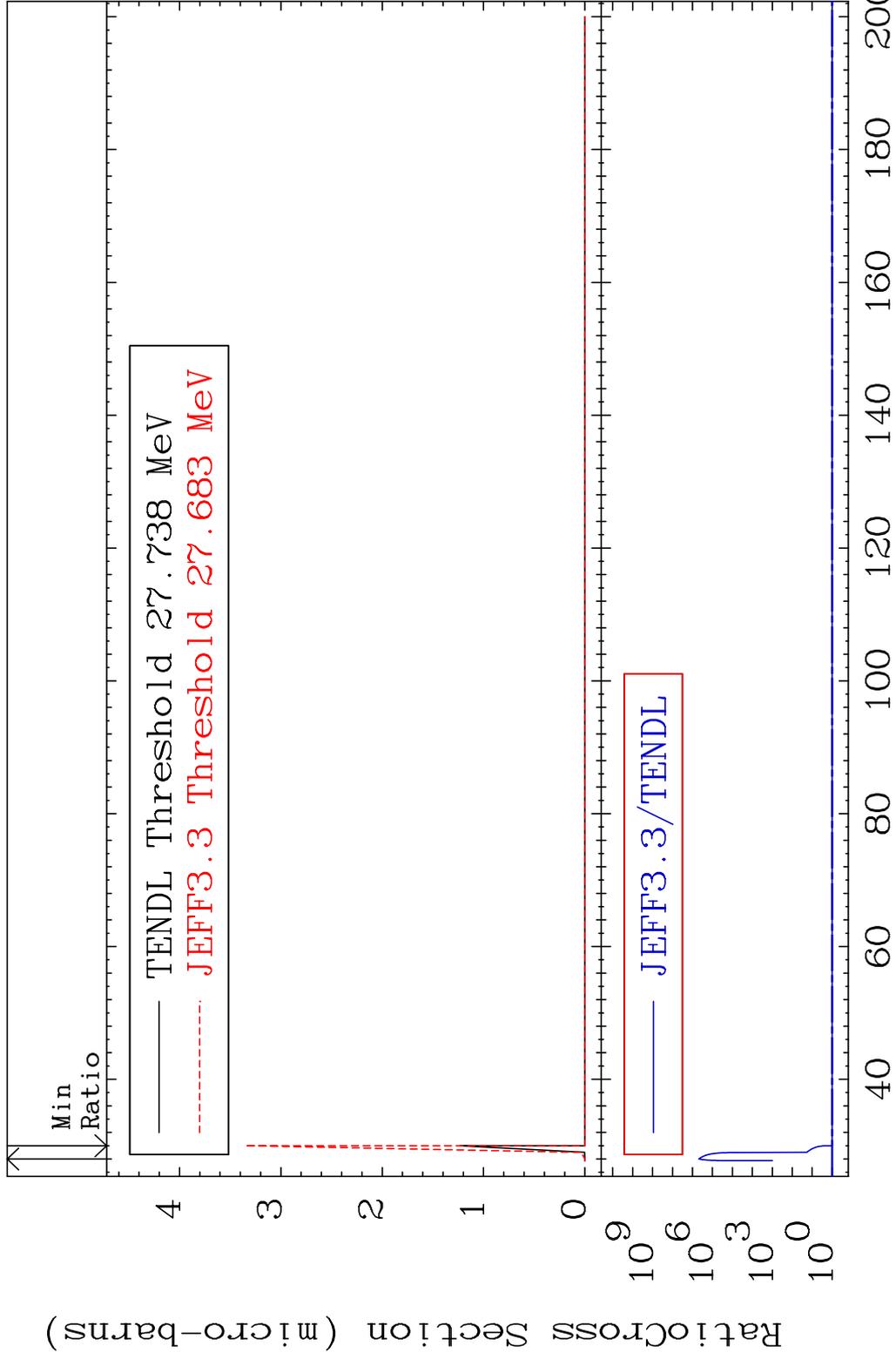
Inelastic

20-Ca-44

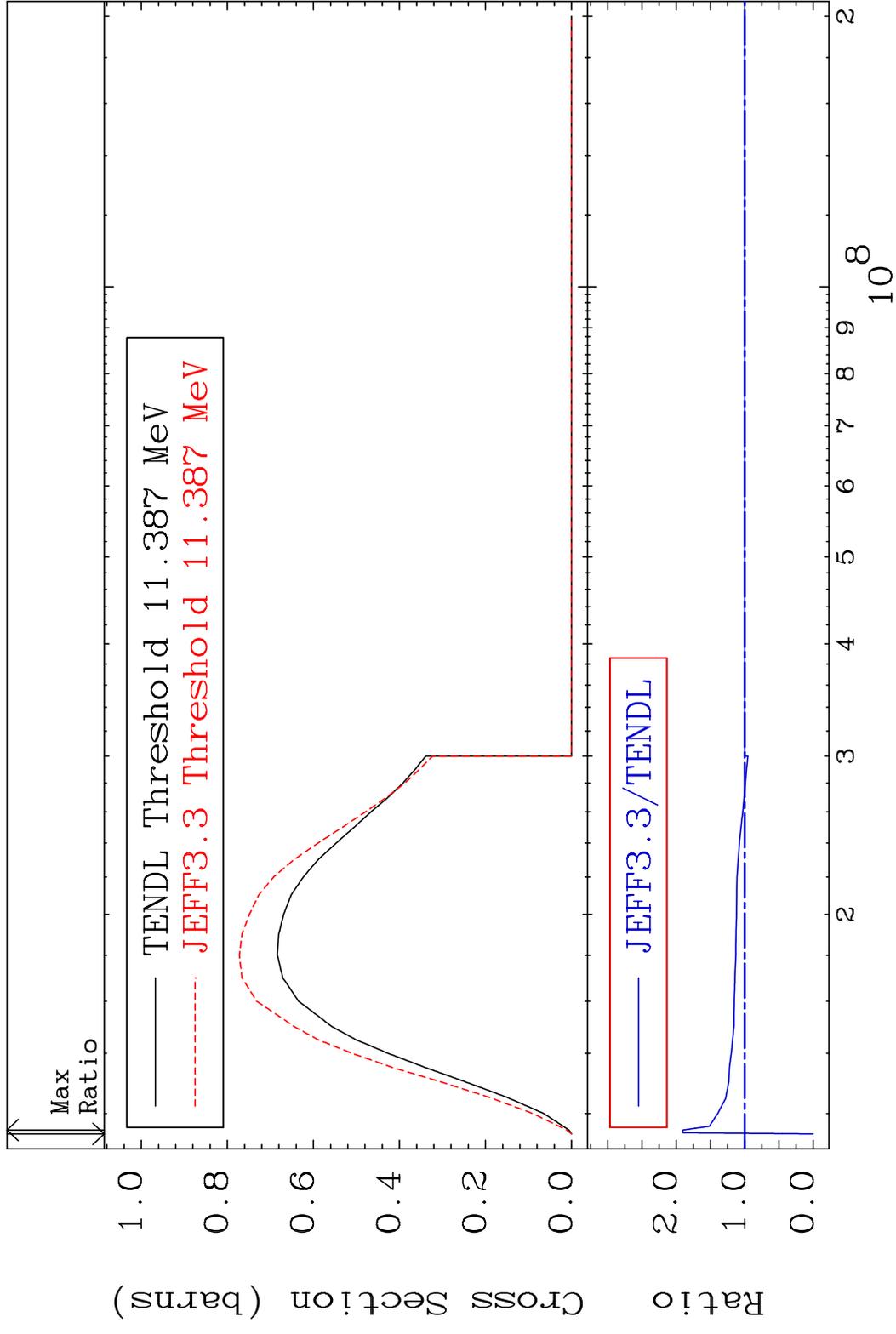
Cross Section -100.0 To 2.118 %



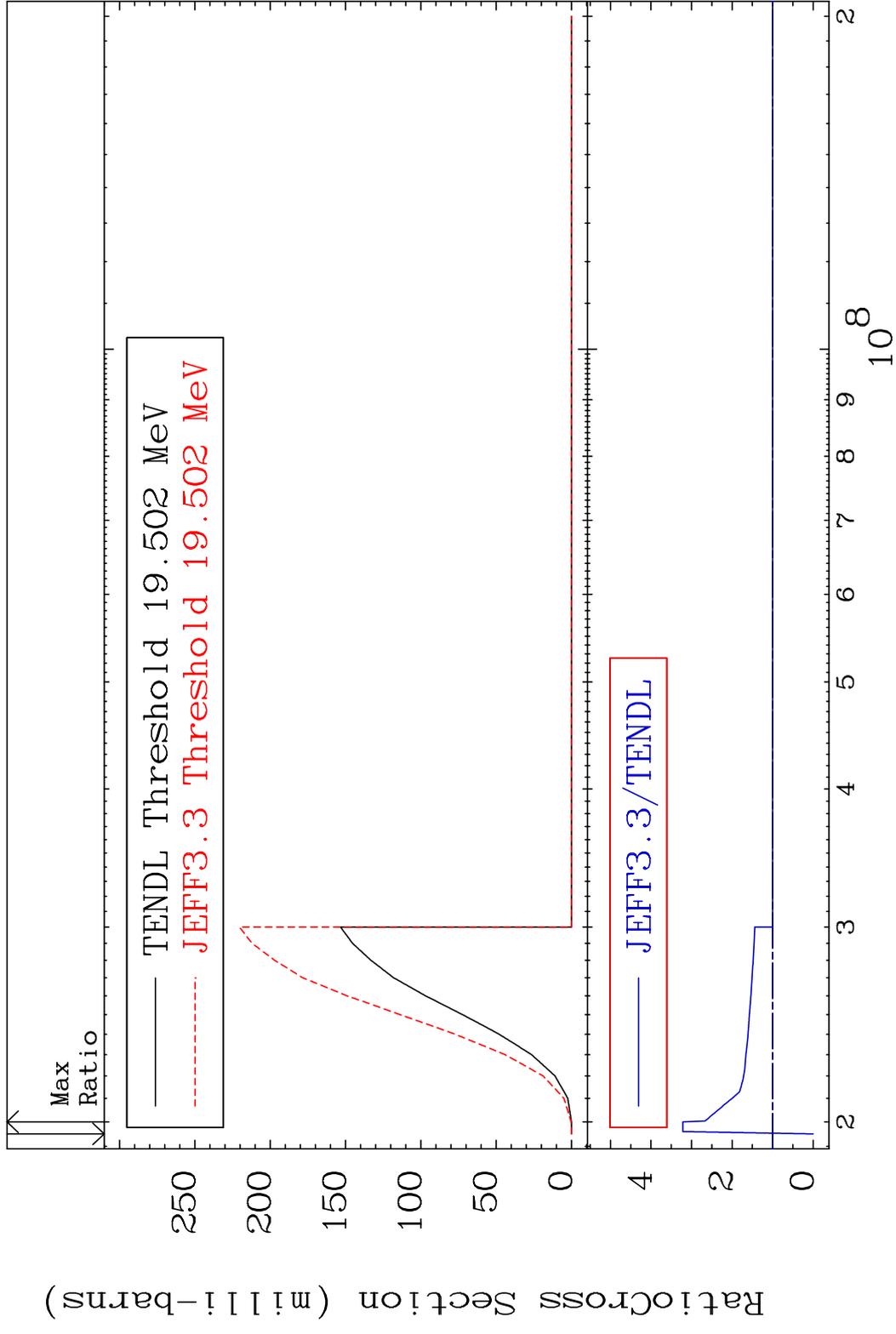
MAT 2037 (n,2n) d 20-Ca-44
 Cross Section 0.000 To 9999. %



MAT 2037 (n,2n) 20-Ca-44
 Cross Section -100.0 To 90.27 %



MAT 2037 (n,3n) 20-Ca-44
 Cross Section -100.0 To 221.5 %

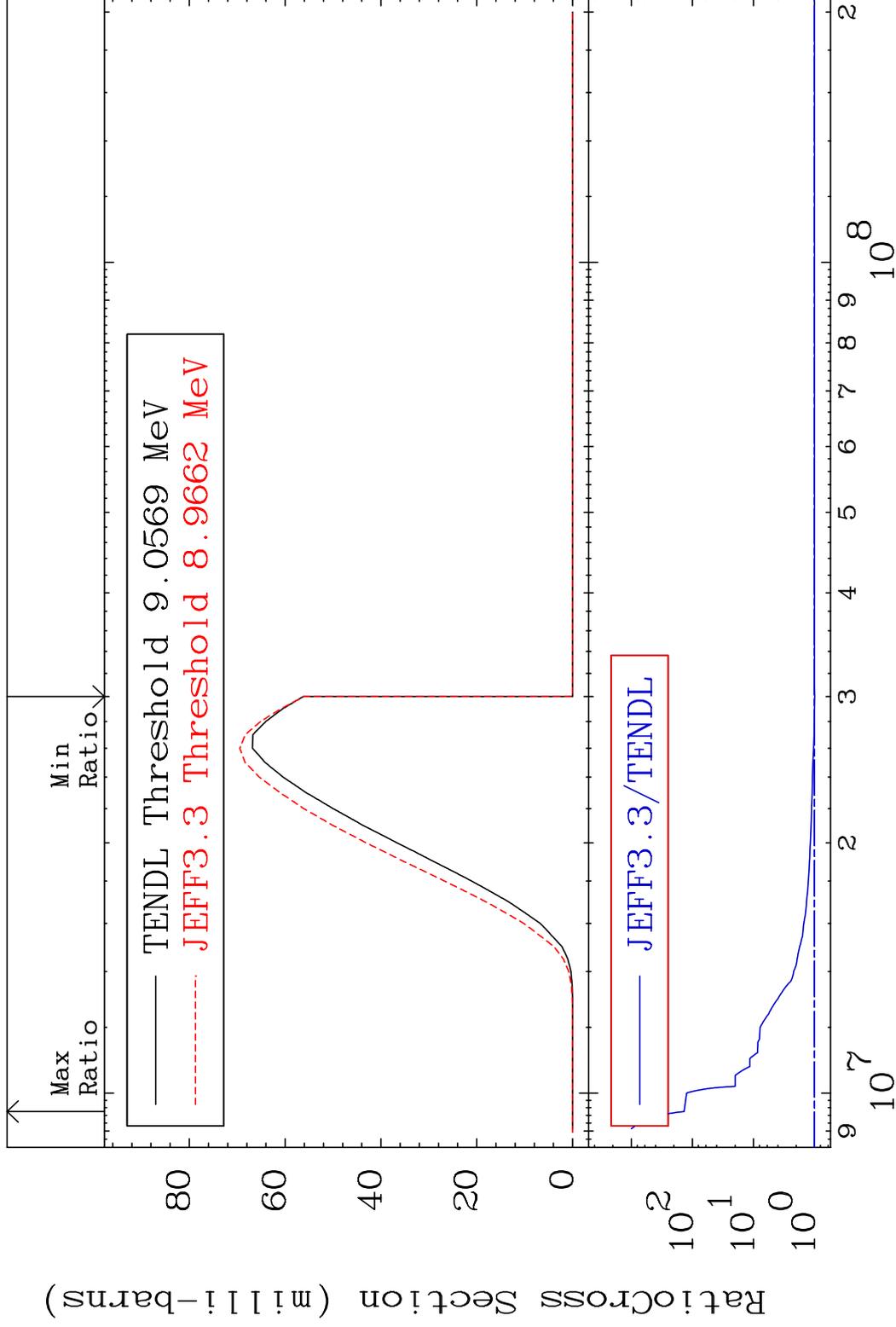


MAT 2037

(n, n') α

20-Ca-44

Cross Section -0.254 To 9999. %

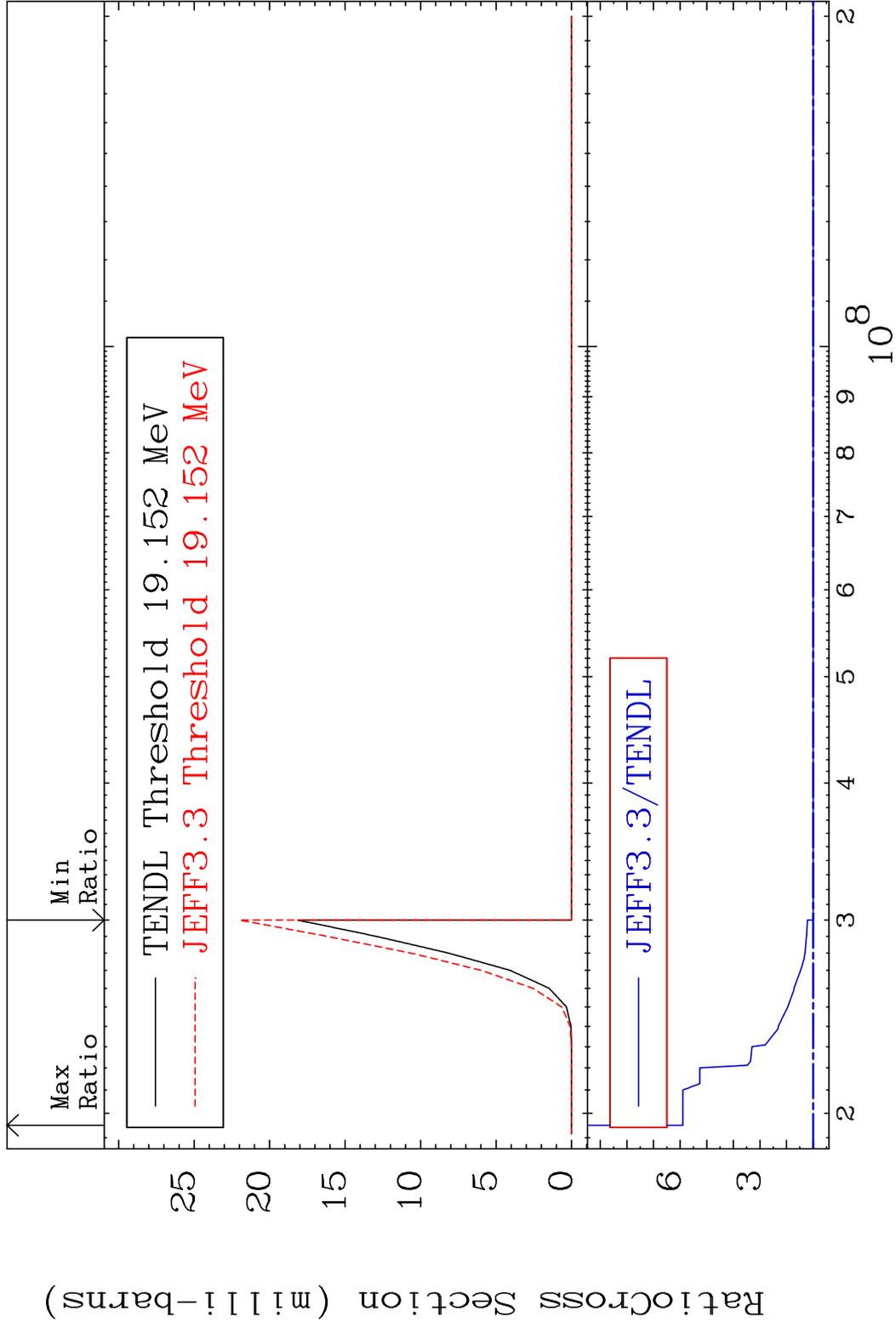


7

Incident Energy (eV)

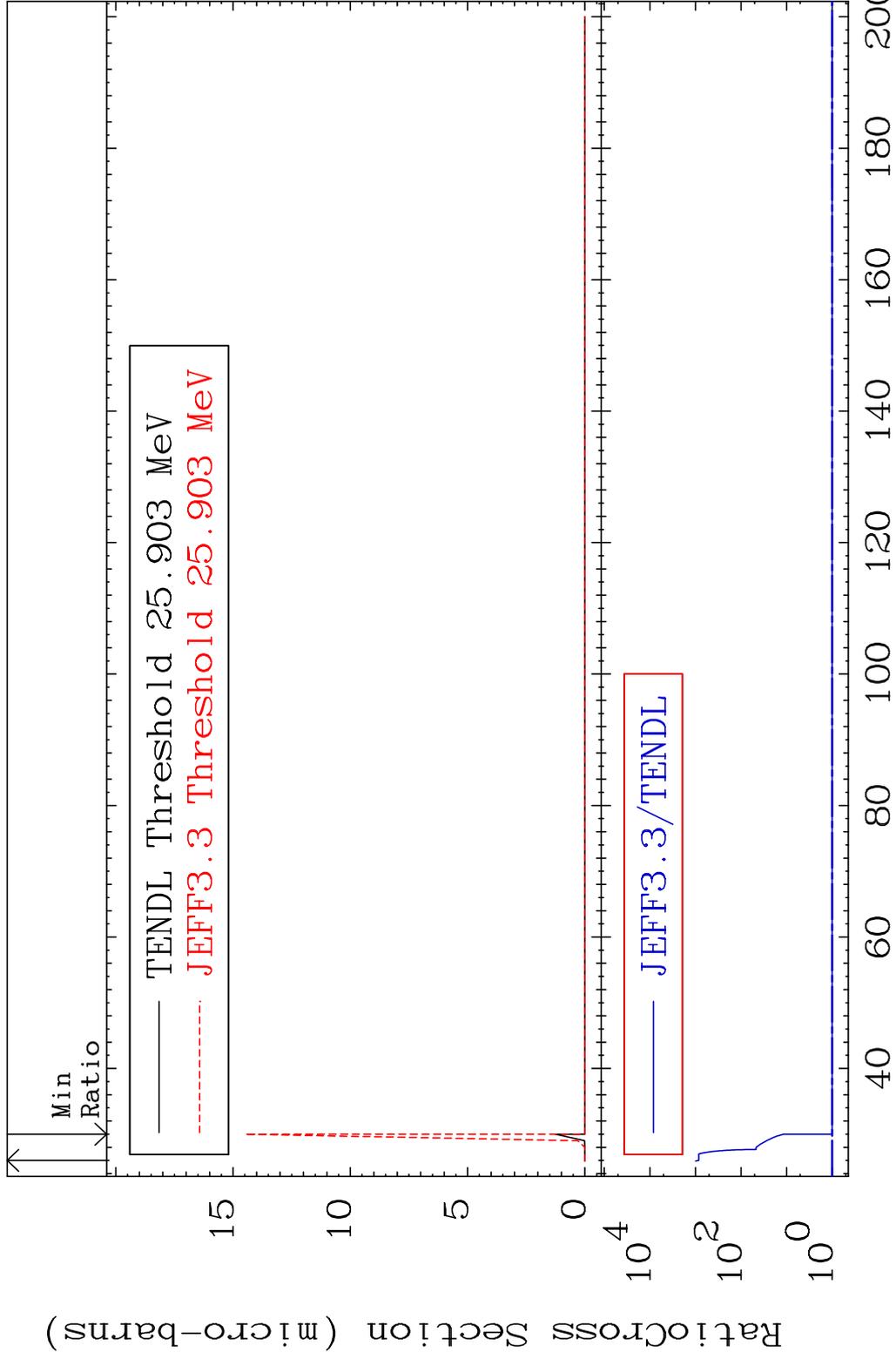
20-Ca-44

MAT 2037 (n,2n) α 20-Ca-44
 Cross Section 0.000 To 489.8 %



8 Incident Energy (eV) 20-Ca-44

MAT 2037 (n,3n) α 20-Ca-44
 Cross Section 0.000 To 9999. %

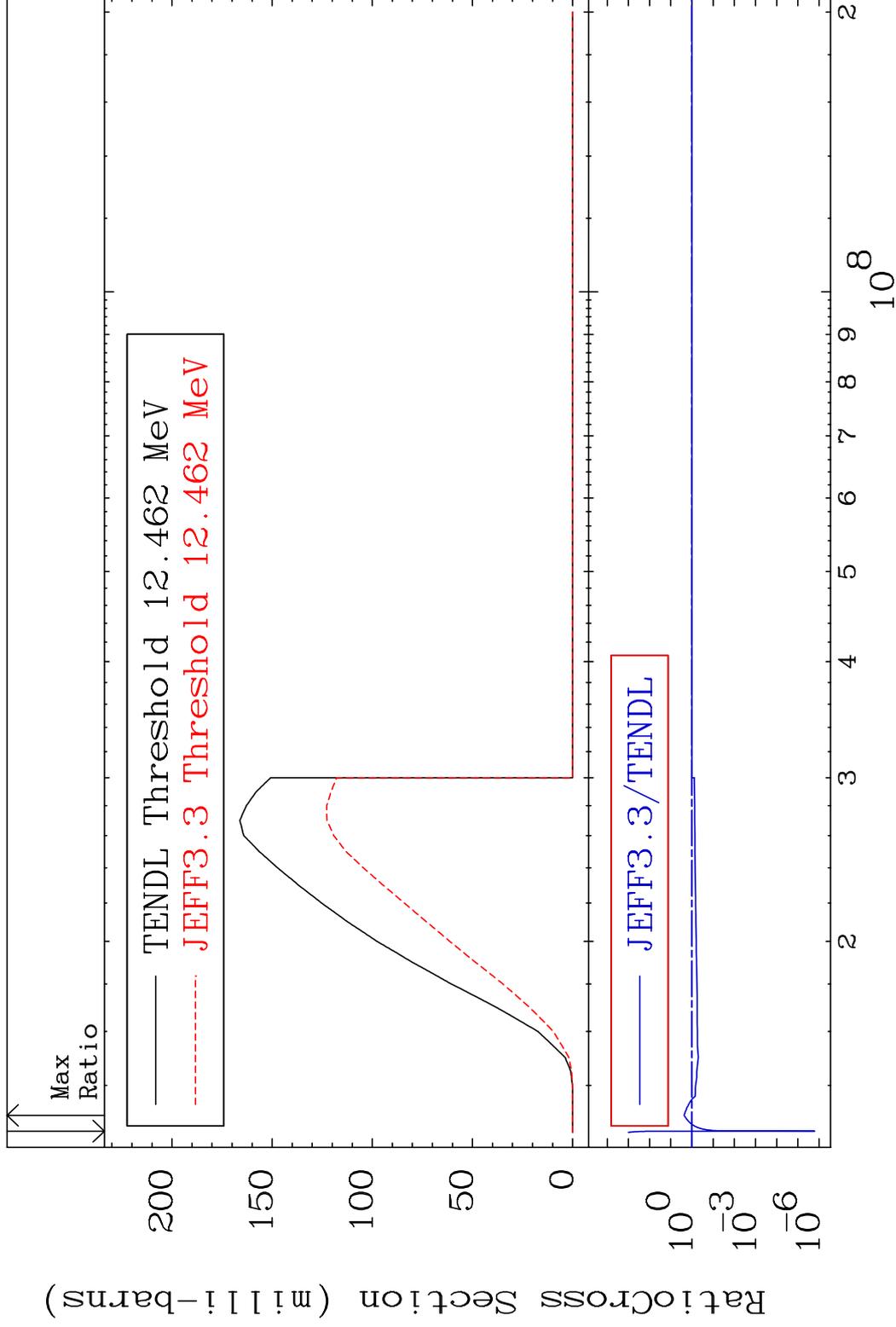


MAT 2037

(n, n') p

20-Ca-44

Cross Section -100.0 To 134.4 %

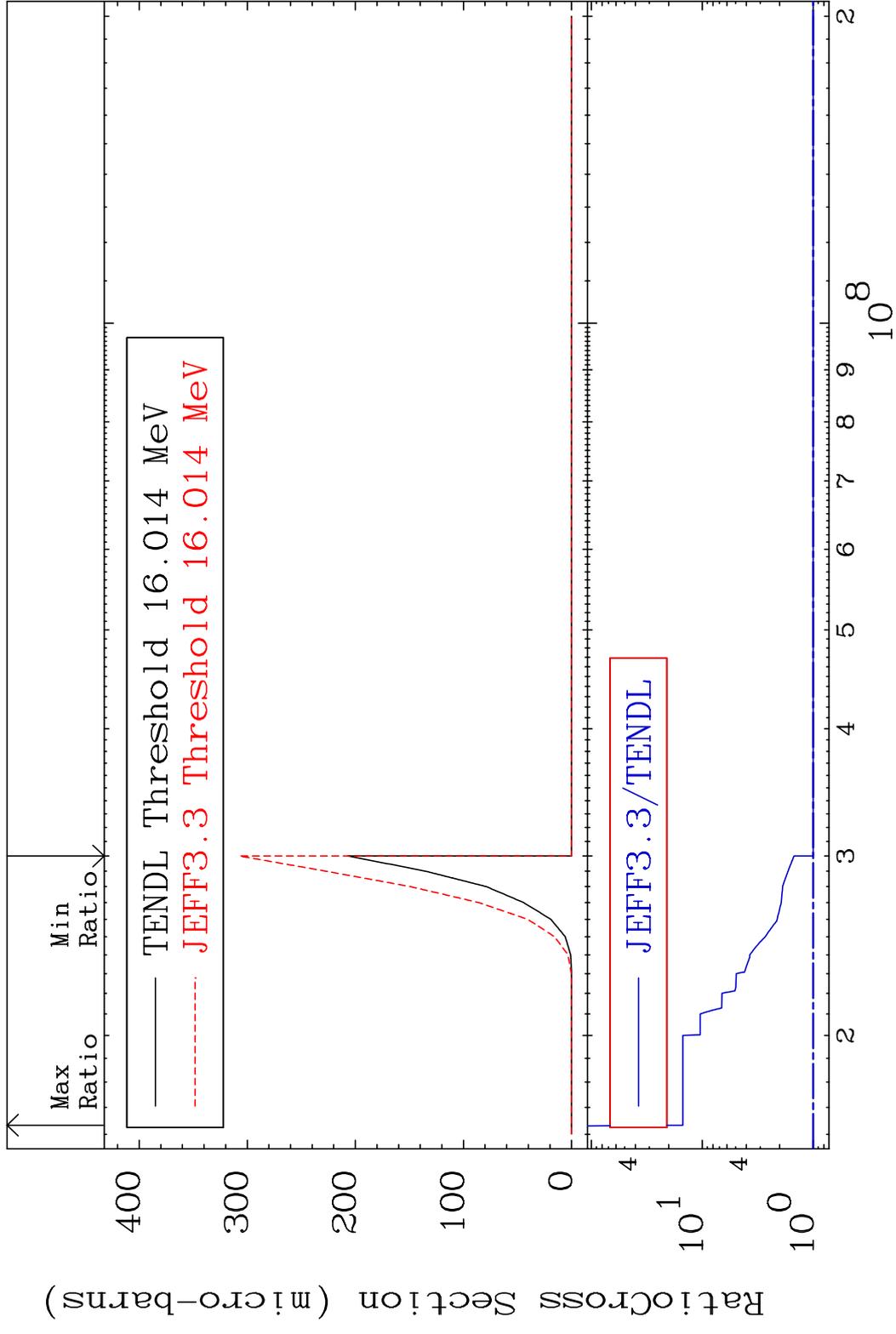


10

Incident Energy (eV)

20-Ca-44

MAT 2037 (n, n') 2α 20-Ca-44
 Cross Section 0.000 To 1395. %

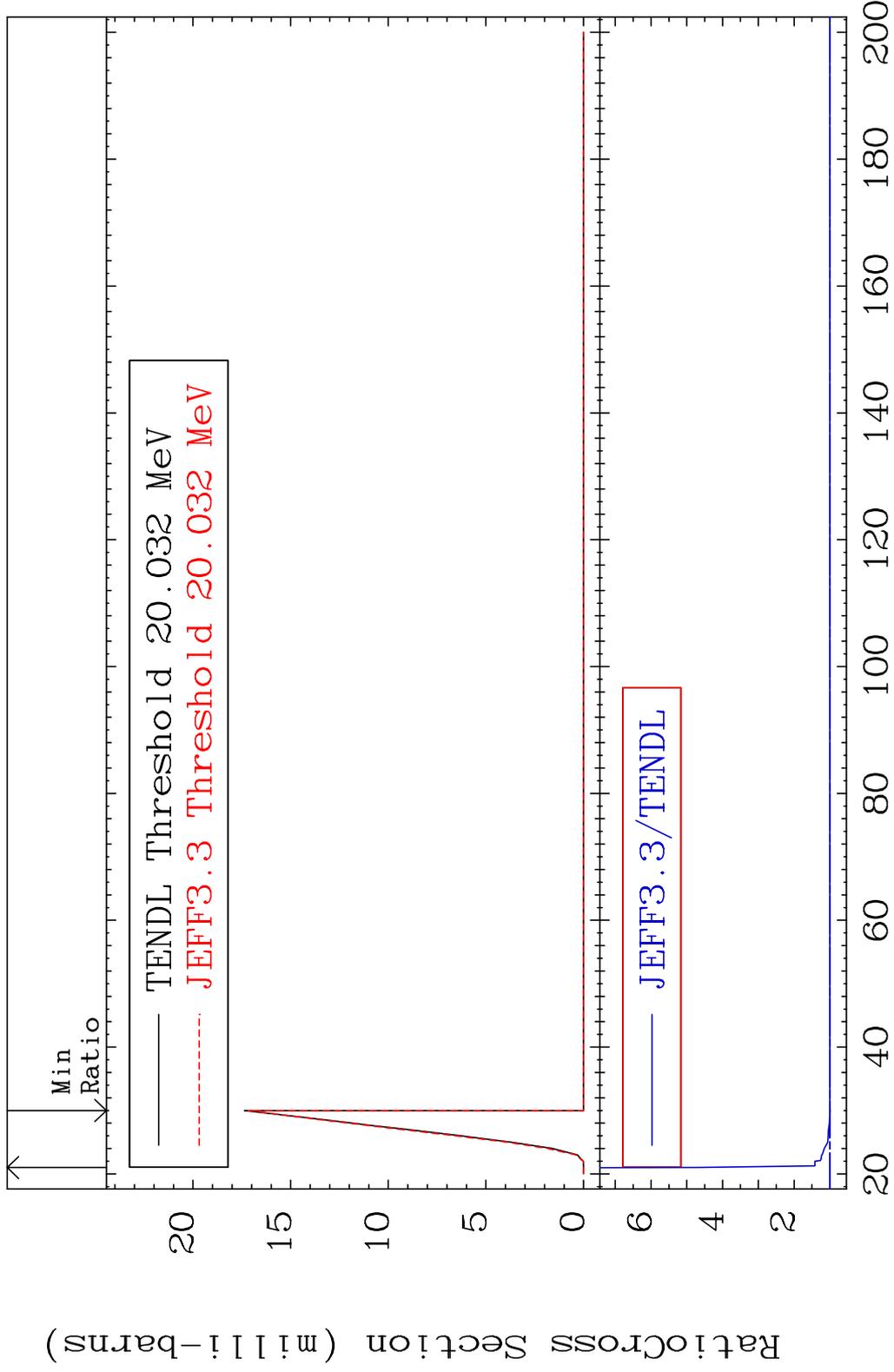


MAT 2037

(n, n') d

20-Ca-44

Cross Section -1.164 To 370.9 %



12

Incident Energy (MeV)

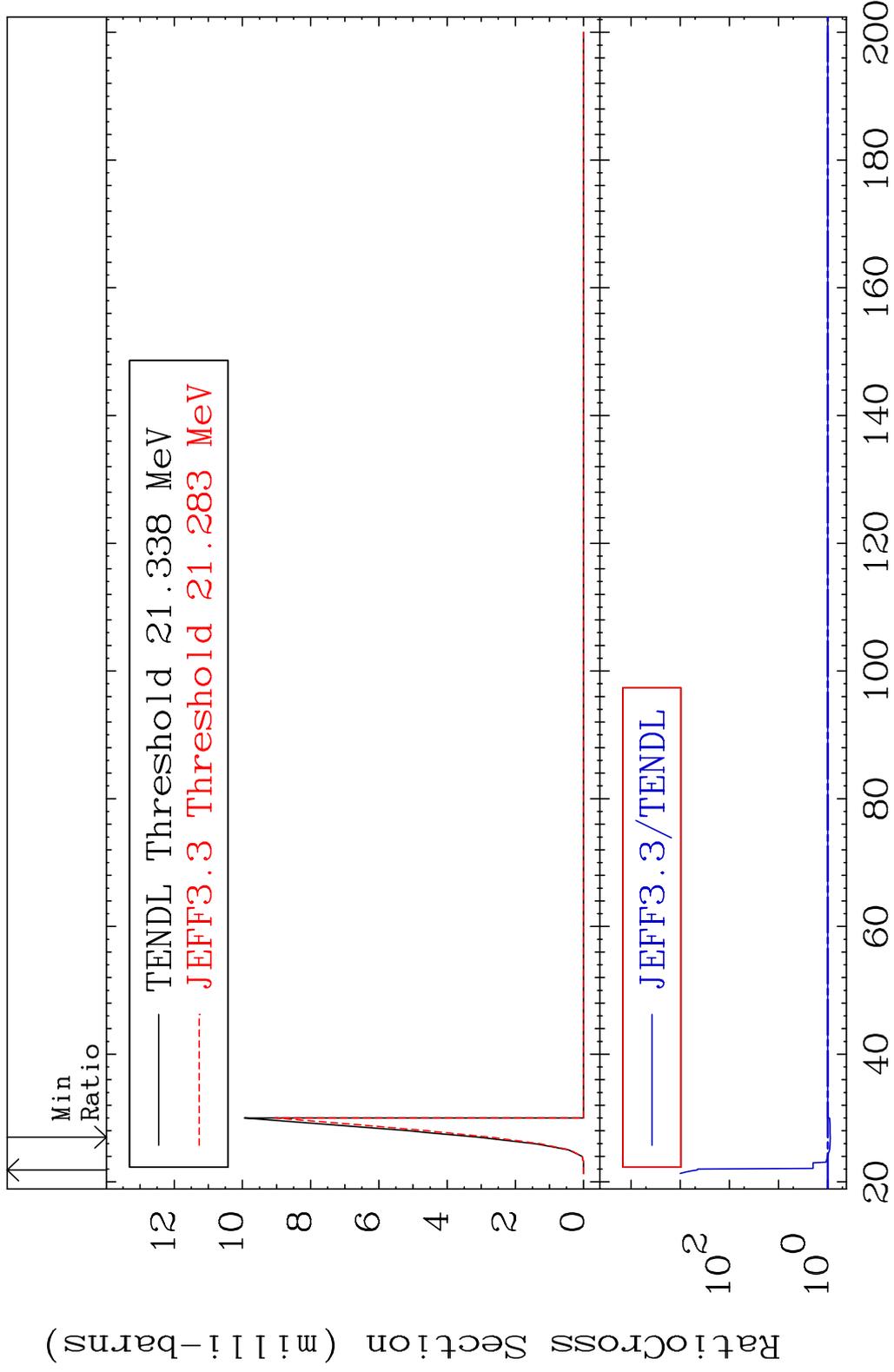
20-Ca-44

MAT 2037

(n, n') t

20-Ca-44

Cross Section -11.49 To 9999. %



13

Incident Energy (MeV)

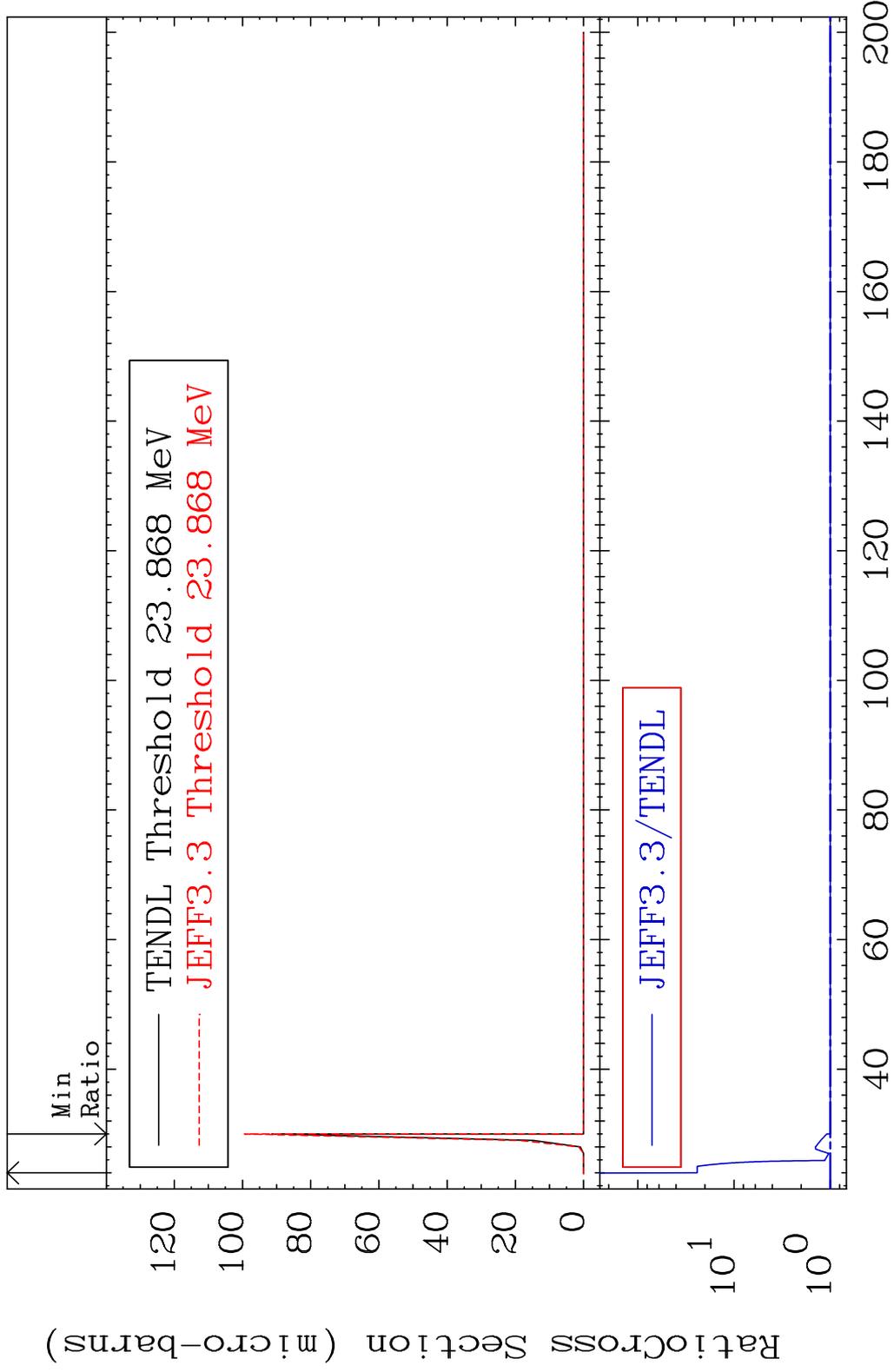
20-Ca-44

MAT 2037

(n,n') He-3

20-Ca-44

Cross Section 0.000 To 2310. %

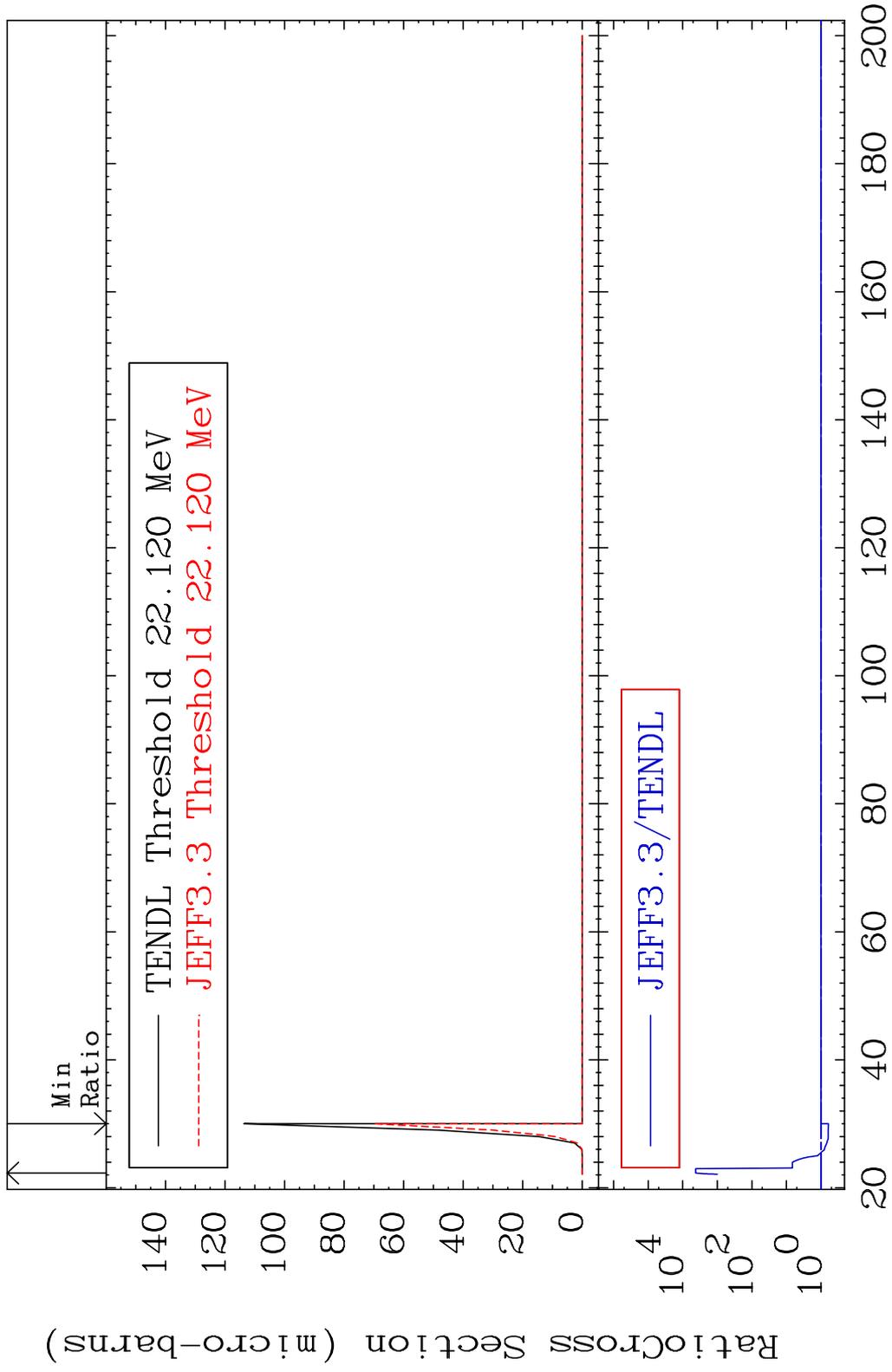


MAT 2037

(n,2n) p

20-Ca-44

Cross Section -38.92 To 9999. %

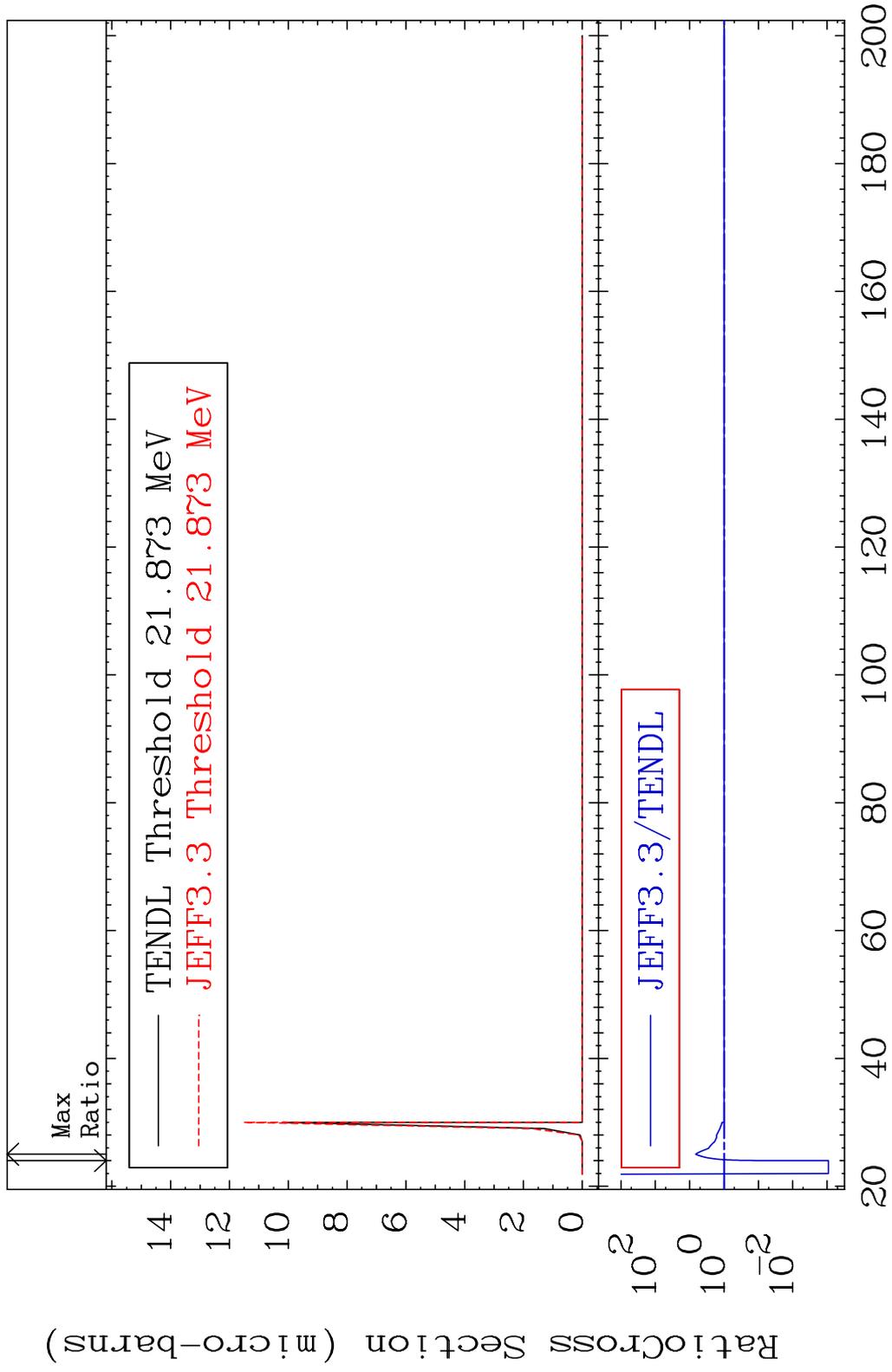


MAT 2037

(n,n') p α

20-Ca-44

Cross Section -99.91 To 569.6 %



17

Incident Energy (MeV)

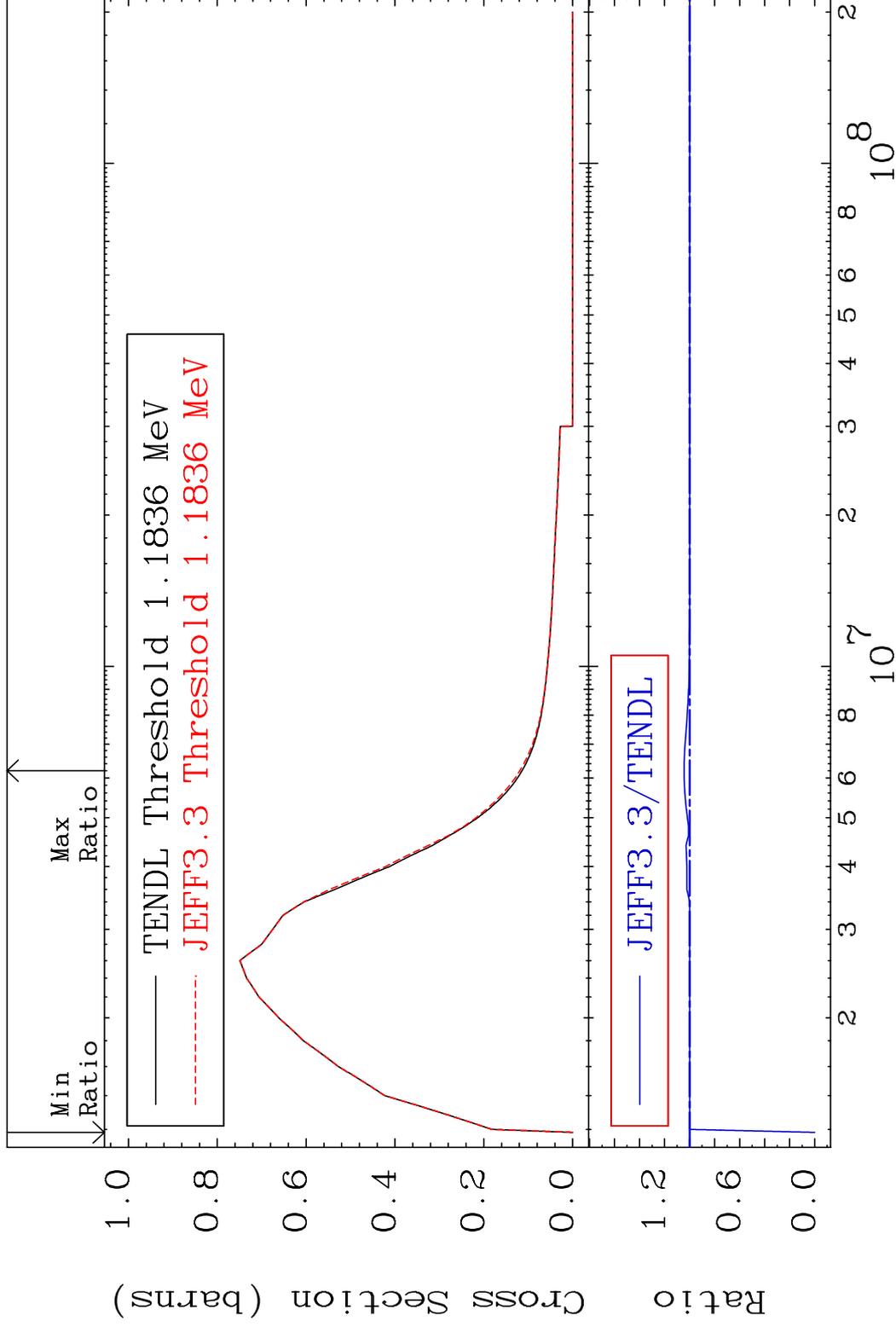
20-Ca-44

MAT 2037

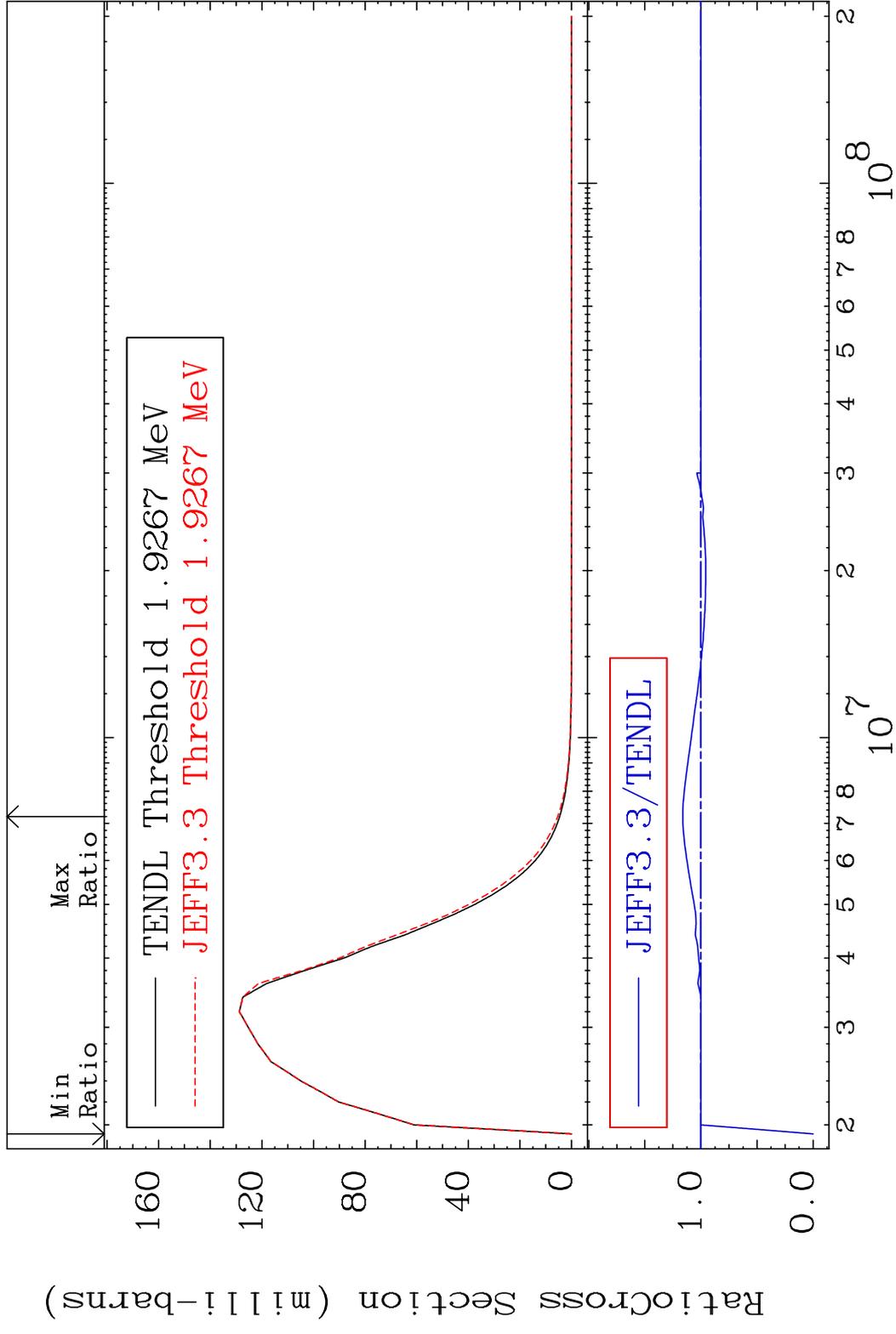
MT= 51 (n, n') Level

20-Ca-44

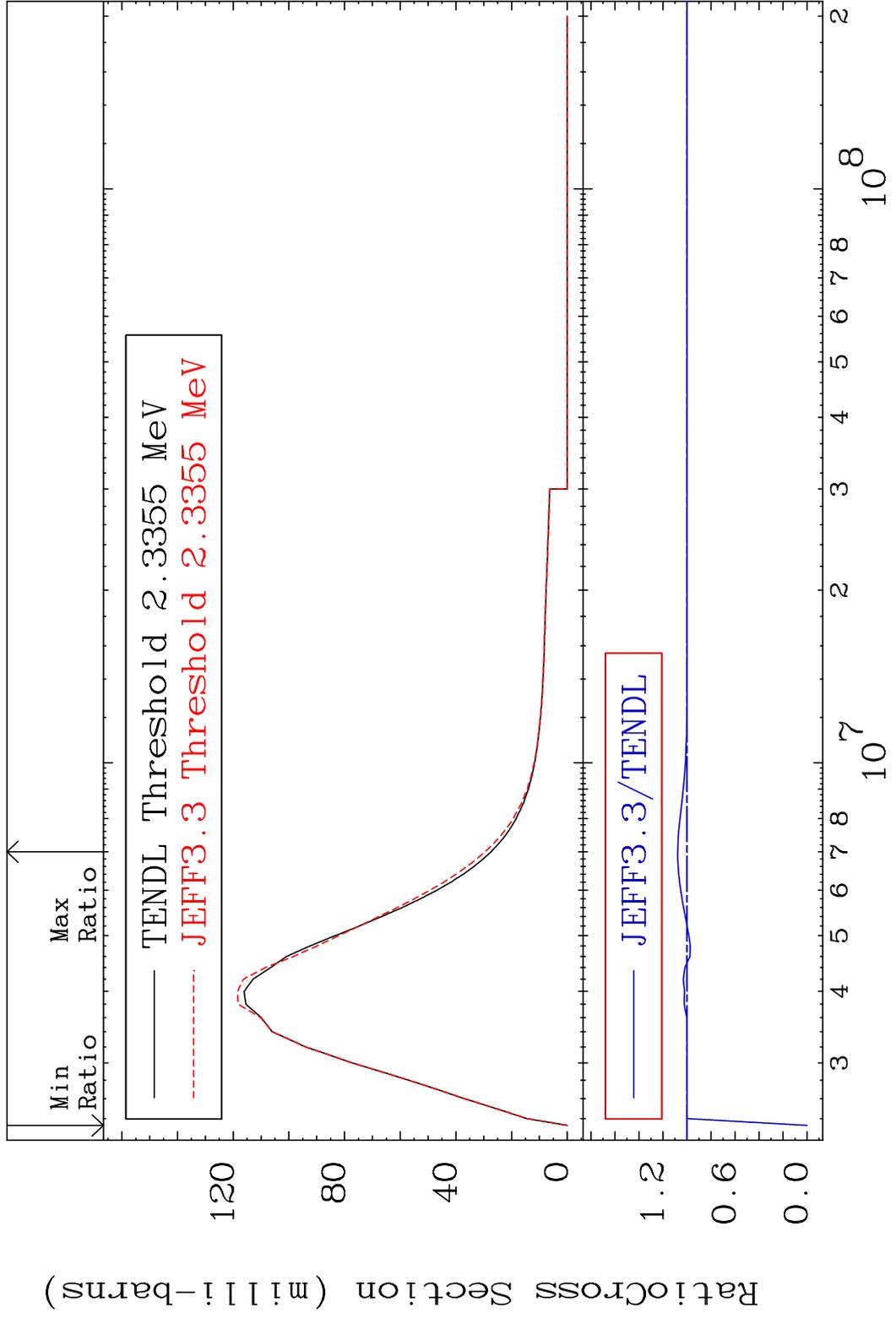
Cross Section -100.0 To 4.361 %



MAT 2037 MT= 52 (n, n') Level 20-Ca-44
 Cross Section -100.0 To 16.15 %

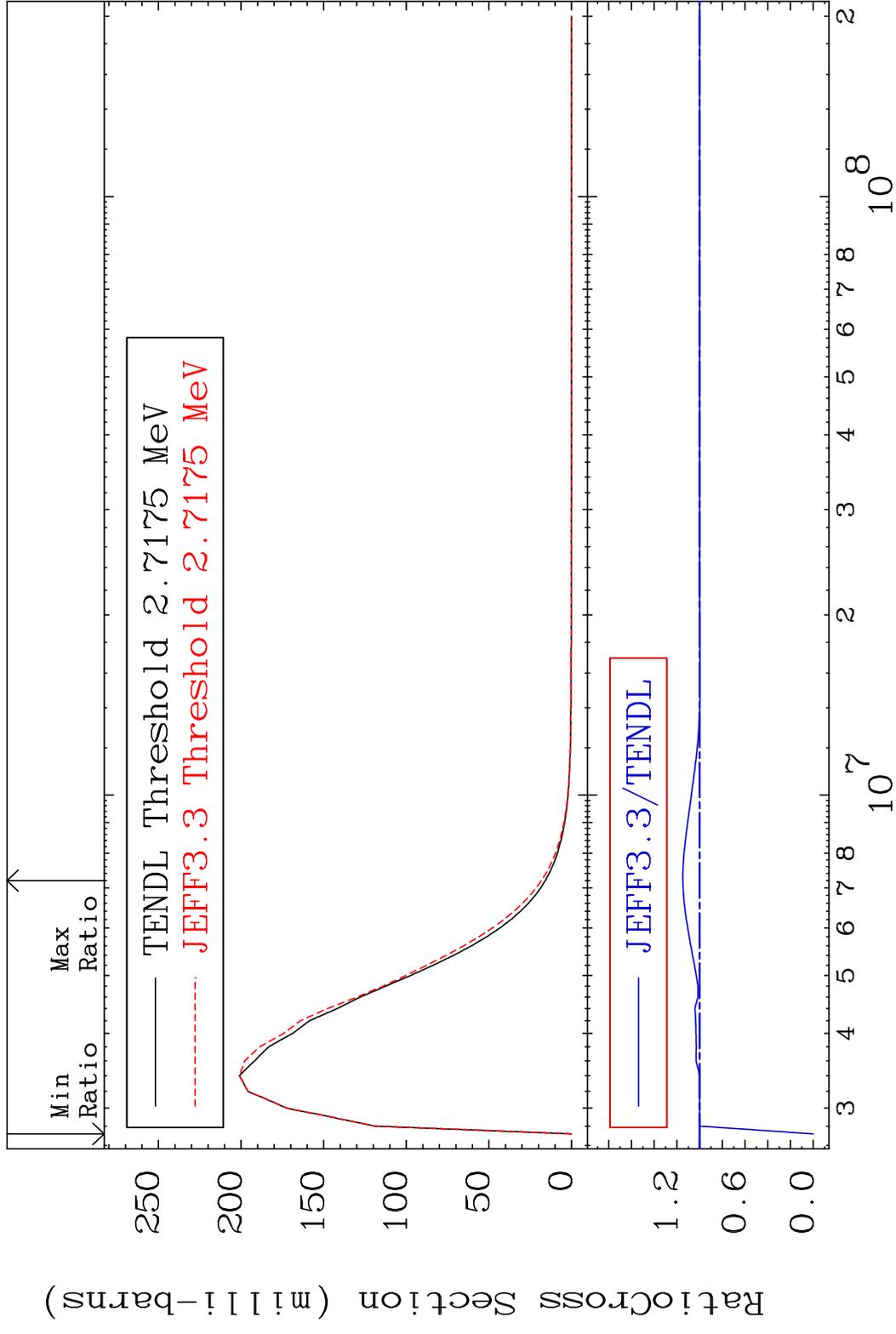


MAT 2037 MT= 53 (n, n') Level 20-Ca-44
 Cross Section -100.0 To 7.765 %

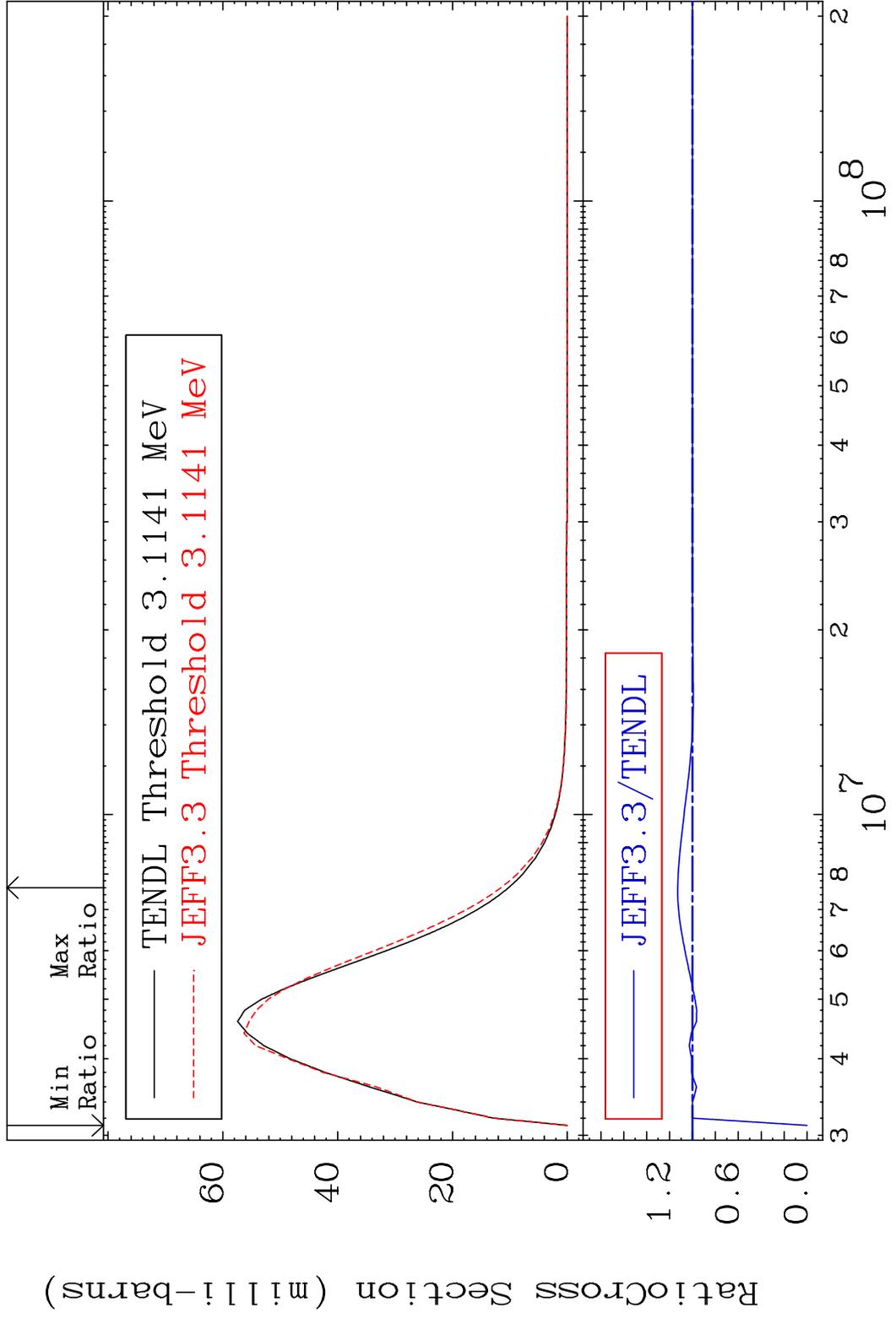


20

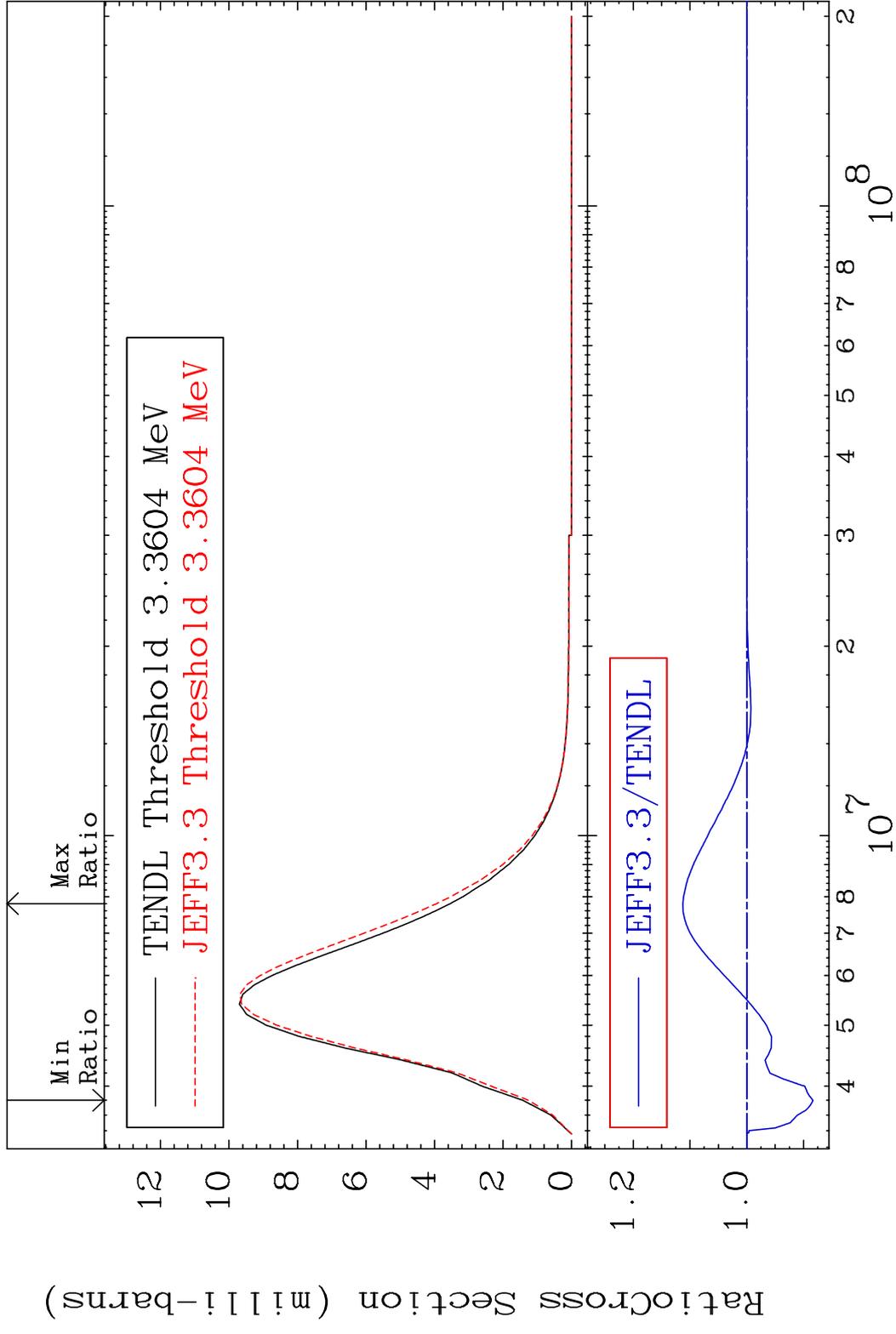
MAT 2037 MT= 54 (n, n') Level 20-Ca-44
 Cross Section -100.0 To 14.76 %



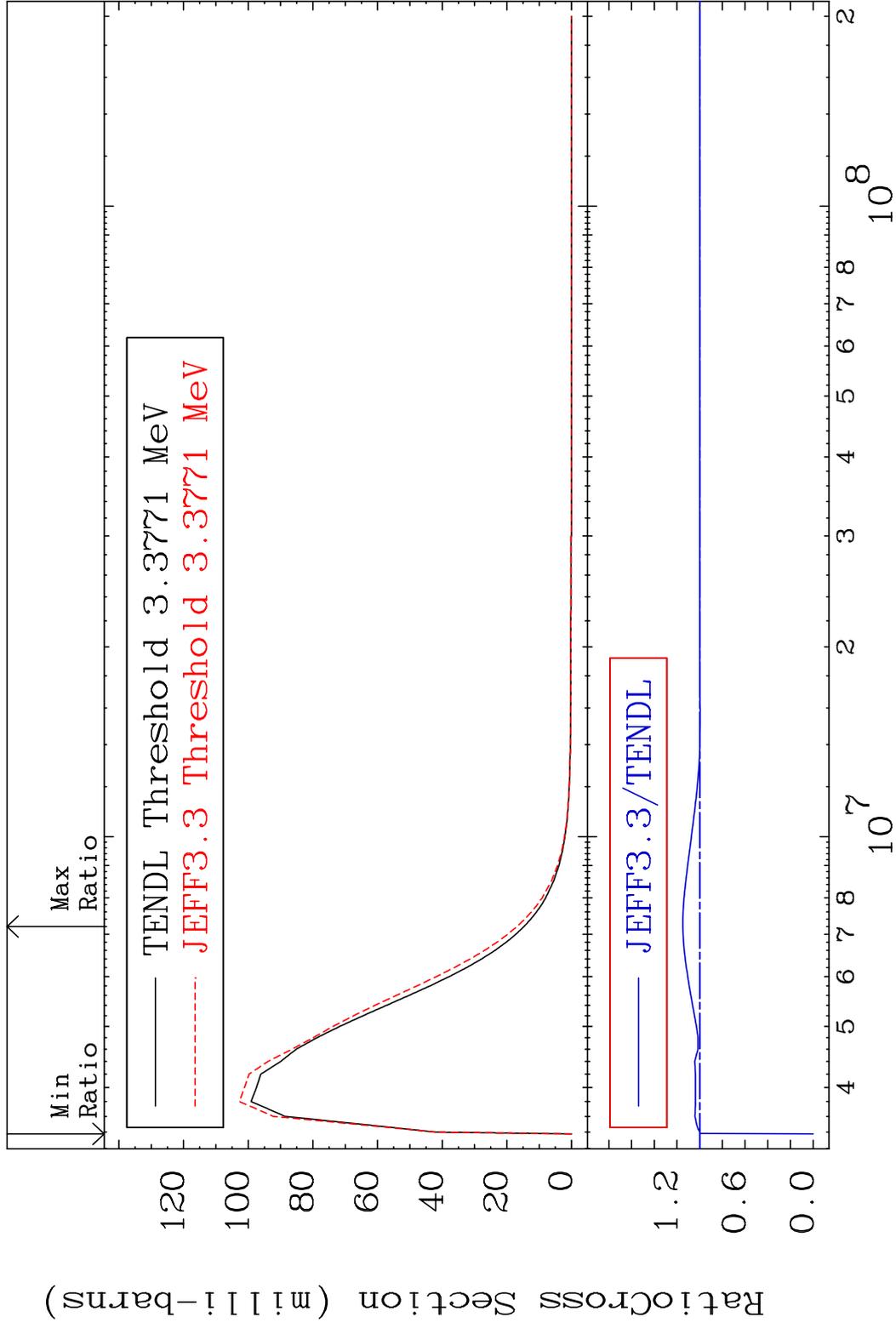
MAT 2037 MT= 55 (n,n') Level 20-Ca-44
 Cross Section -100.0 To 12.91 %



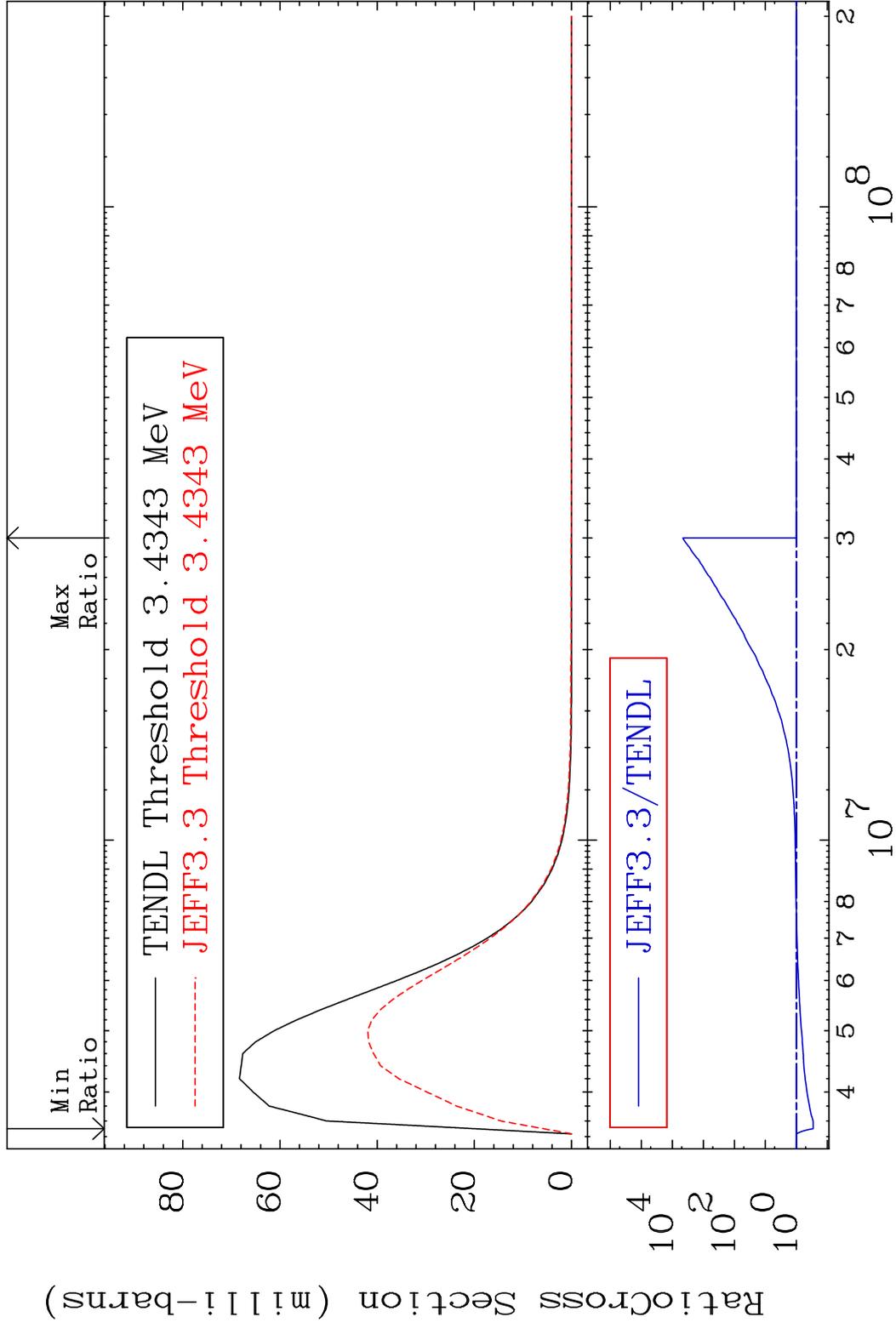
MAT 2037 MT= 56 (n,n') Level 20-Ca-44
 Cross Section -11.69 To 11.26 %



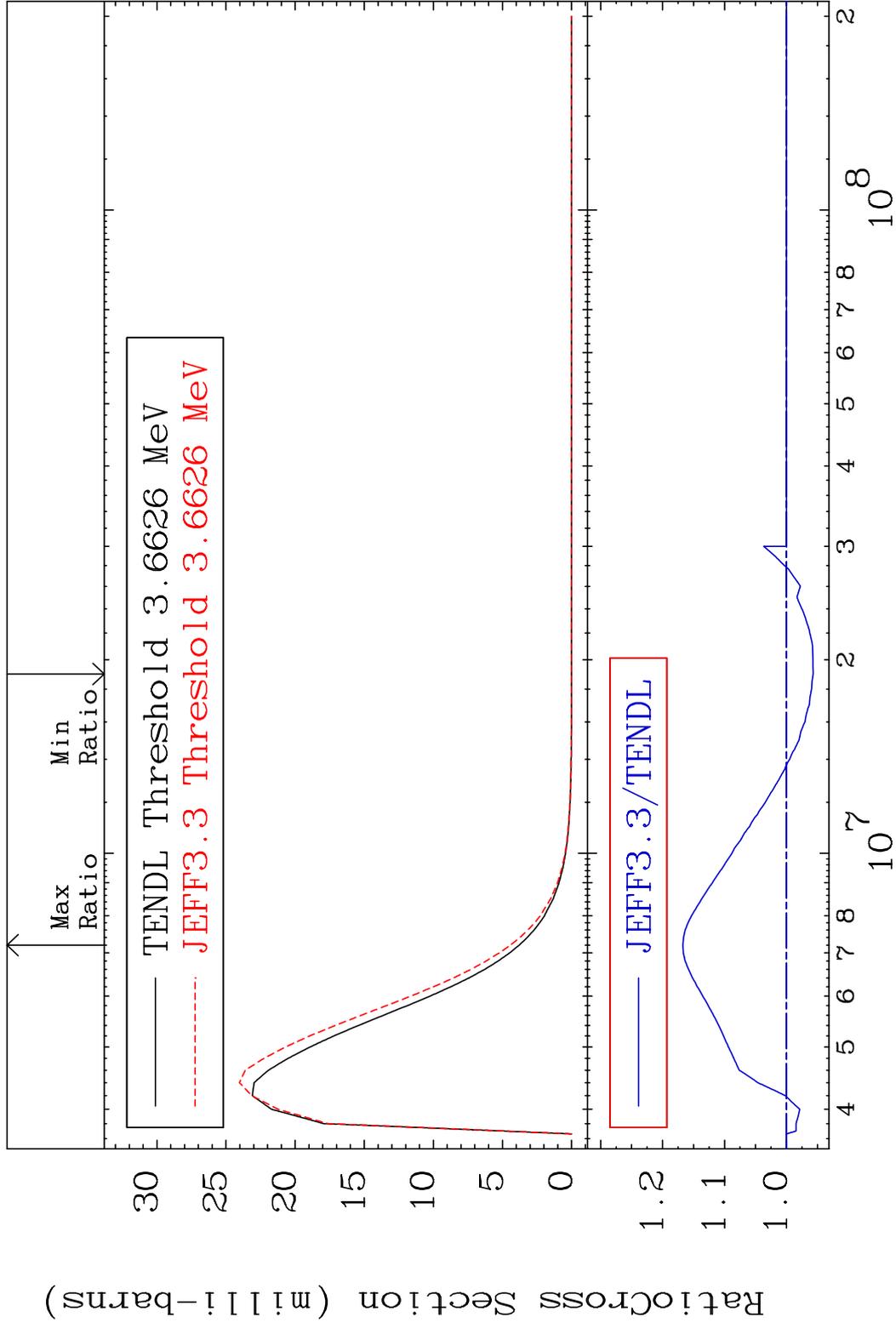
MAT 2037 MT= 57 (n,n') Level 20-Ca-44
 Cross Section -100.0 To 14.83 %



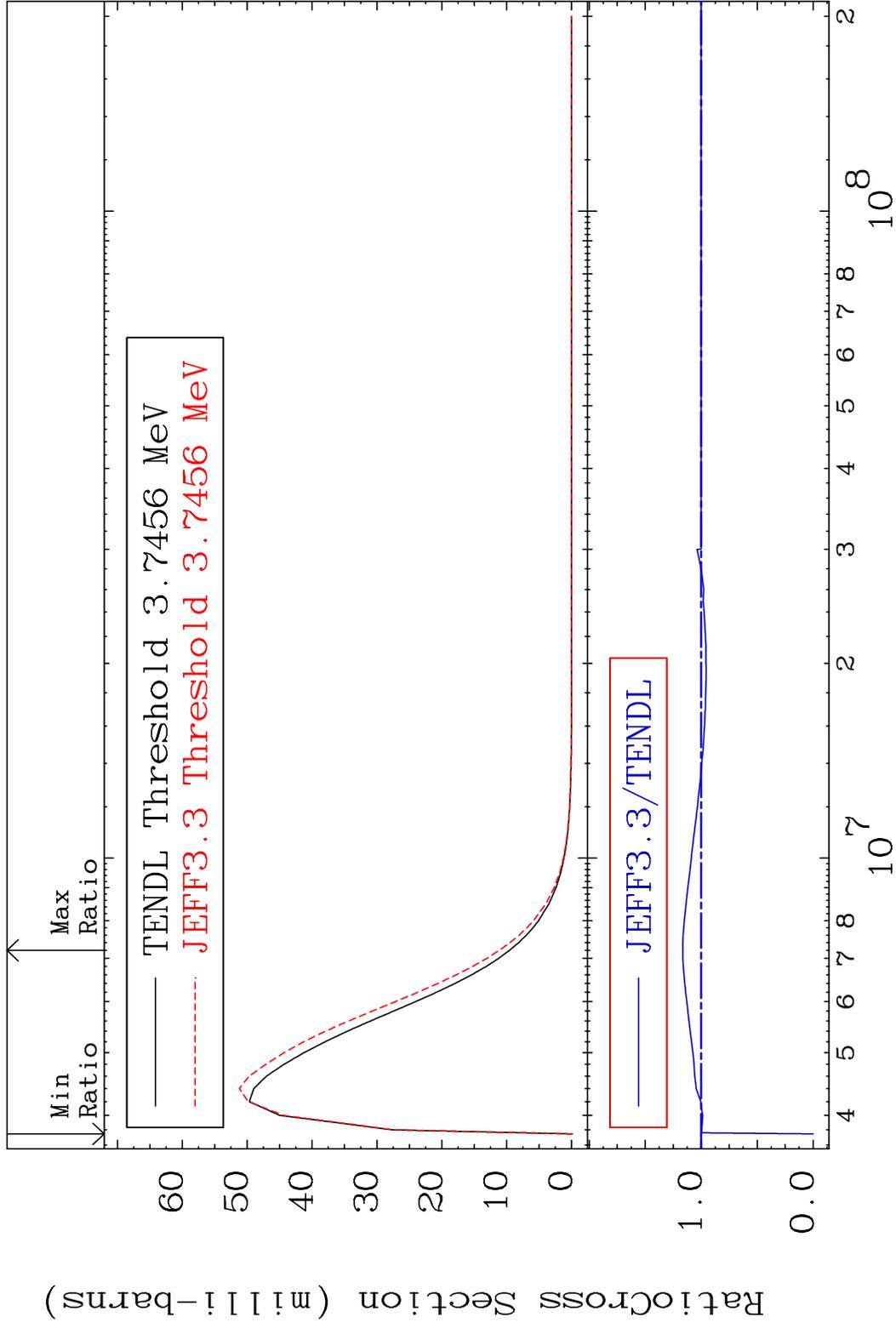
MAT 2037 MT= 59 (n,n') Level 20-Ca-44
 Cross Section -71.16 To 9999. %



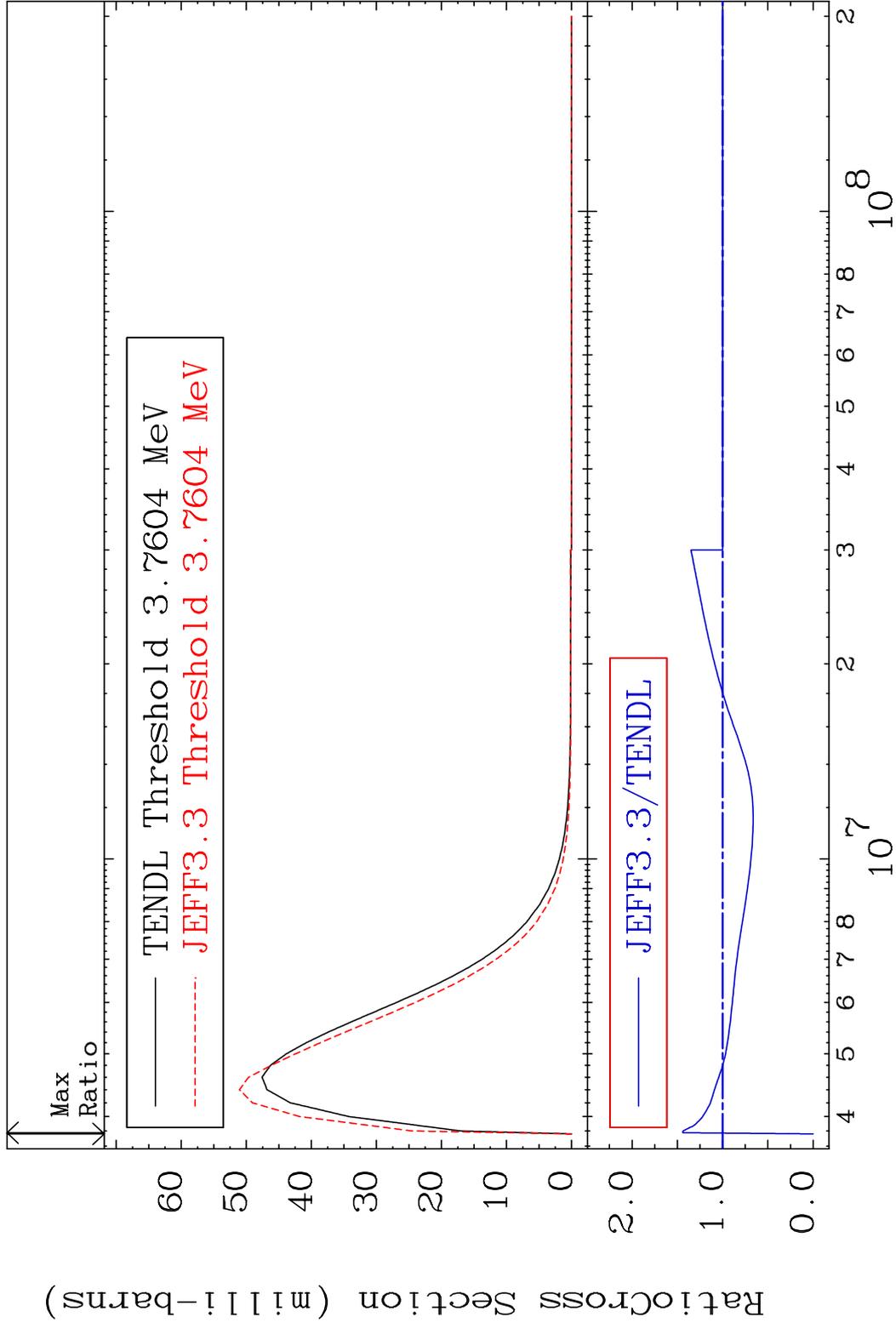
MAT 2037 MT= 60 (n, n') Level 20-Ca-44
 Cross Section -4.307 To 16.73 %



MAT 2037 MT= 61 (n, n') Level 20-Ca-44
 Cross Section -100.0 To 16.39 %

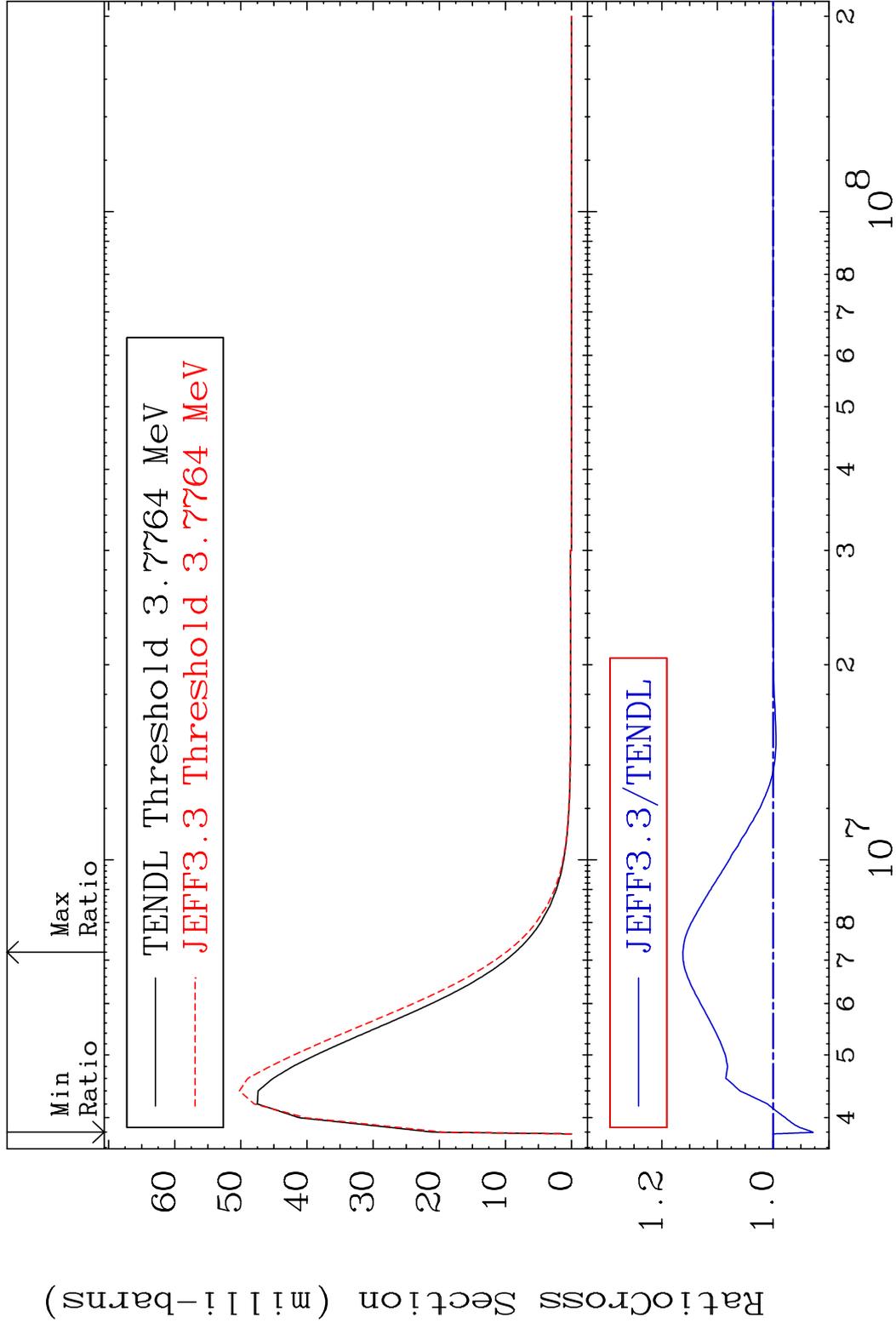


MAT 2037 MT= 62 (n, n') Level 20-Ca-44
 Cross Section -100.0 To 43.95 %



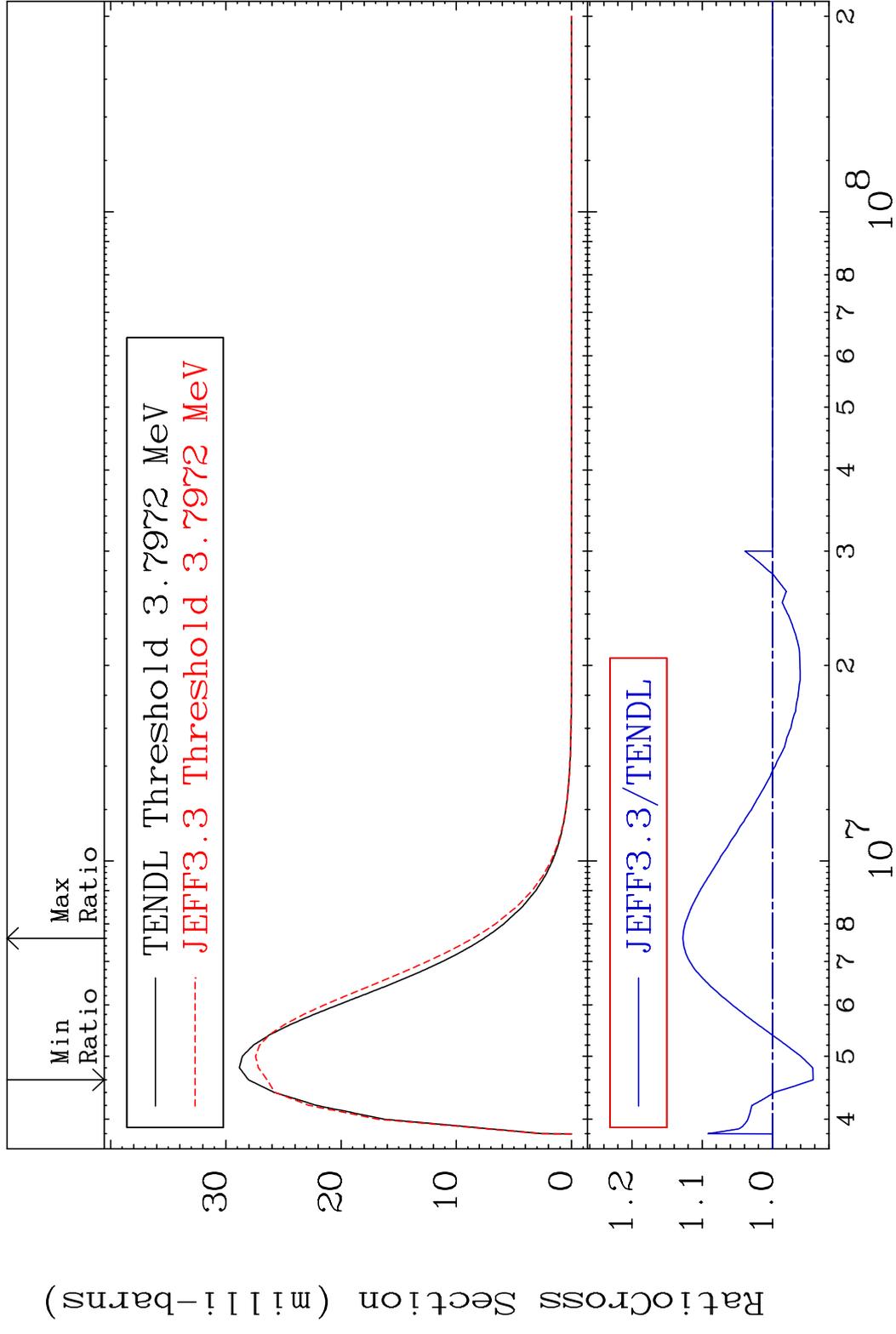
29 Incident Energy (eV) 20-Ca-44

MAT 2037 MT= 63 (n, n') Level 20-Ca-44
 Cross Section -7.193 To 16.22 %

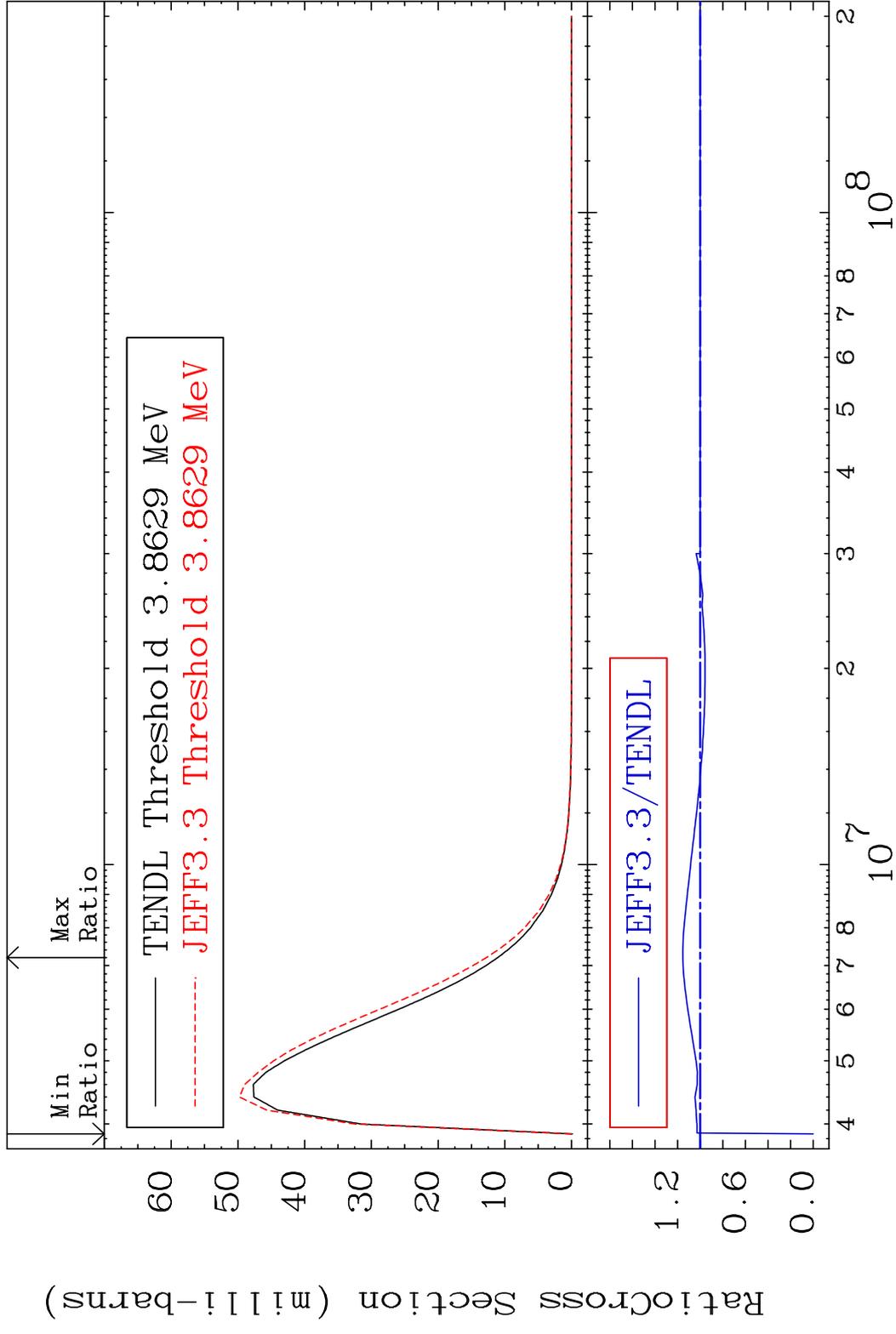


30 Incident Energy (eV) 20-Ca-44

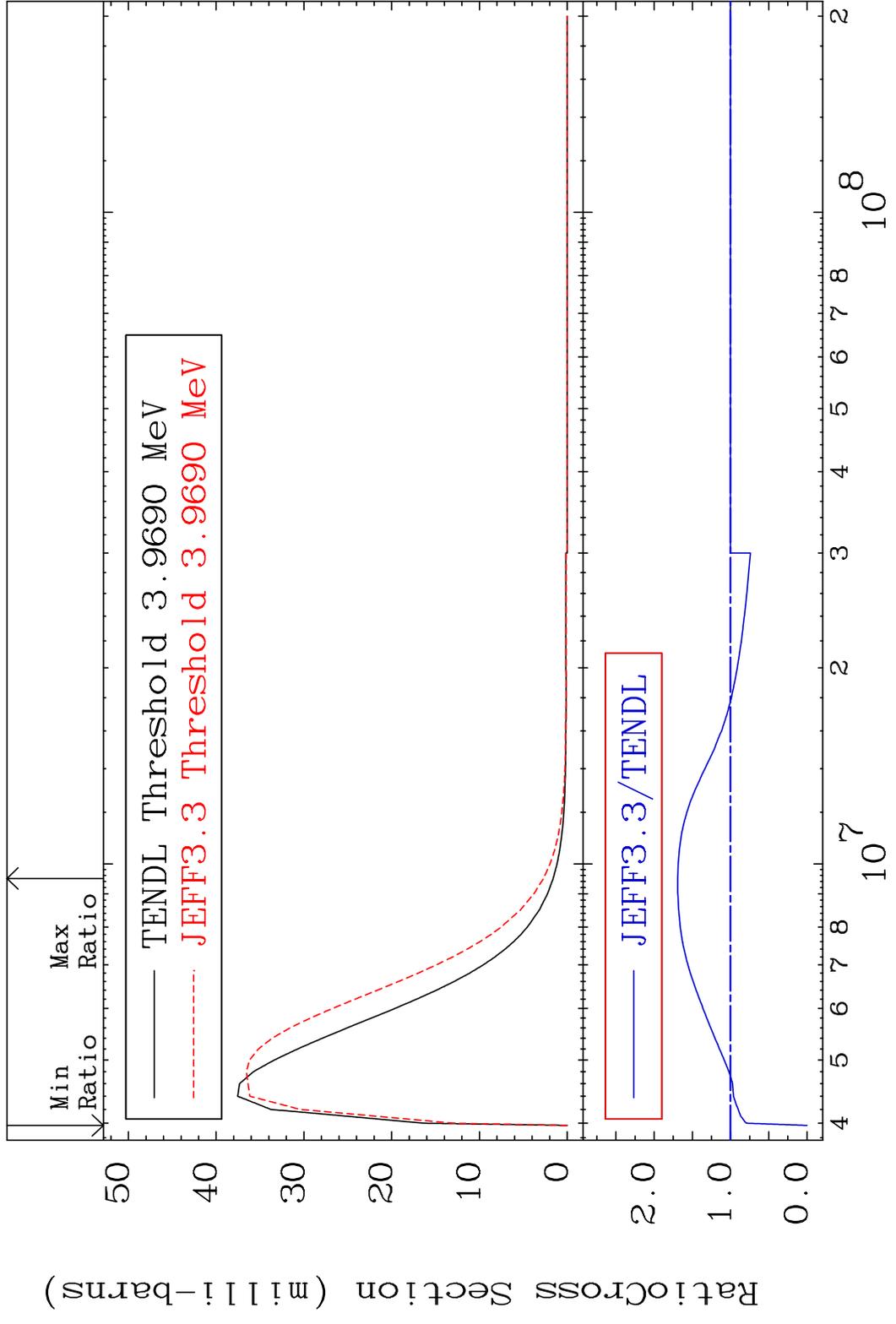
MAT 2037 MT= 64 (n,n') Level 20-Ca-44
 Cross Section -5.779 To 12.76 %



MAT 2037 MT= 65 (n,n') Level 20-Ca-44
 Cross Section -100.0 To 15.41 %



MAT 2037 MT= 66 (n, n') Level 20-Ca-44
 Cross Section -100.0 To 69.22 %

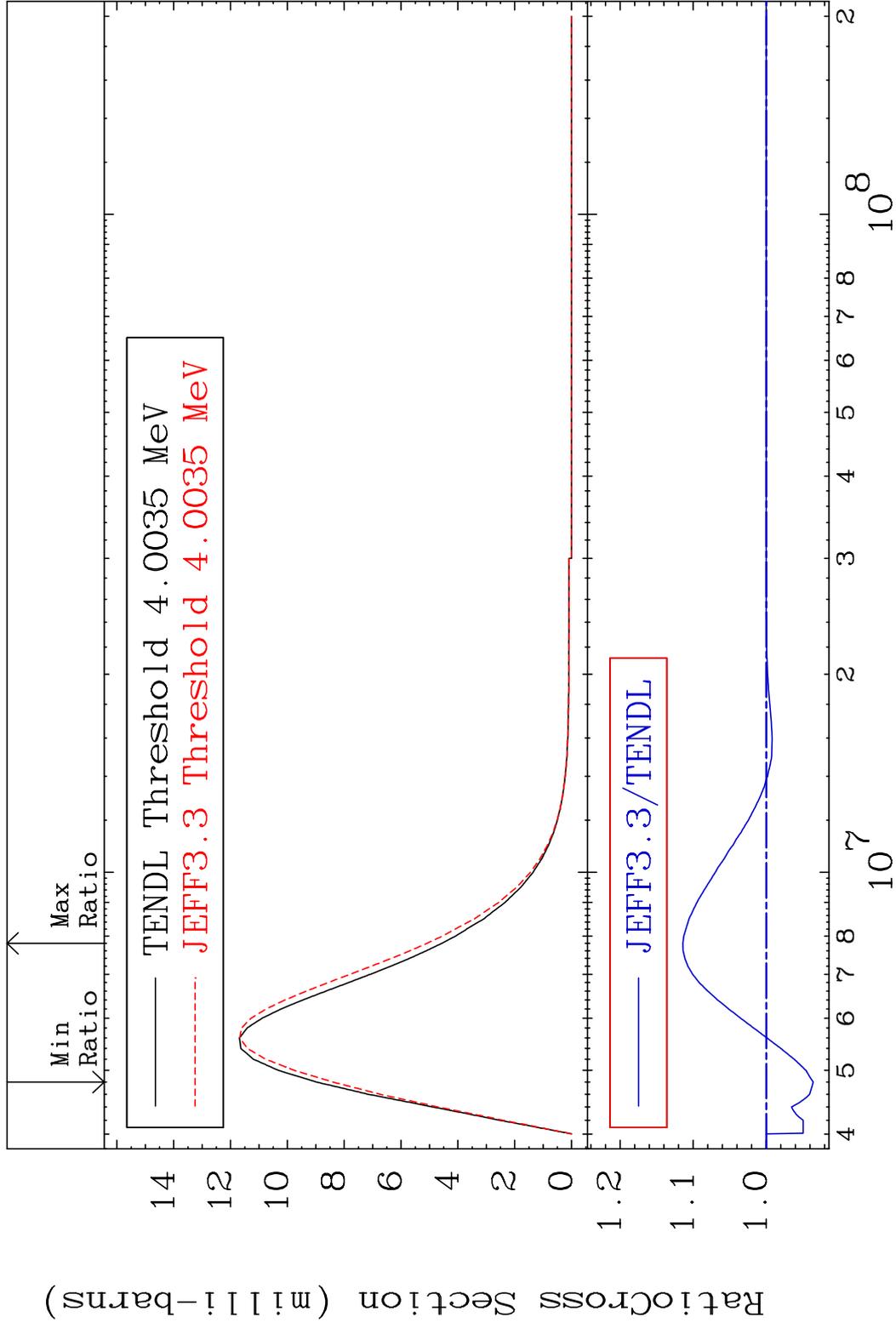


MAT 2037

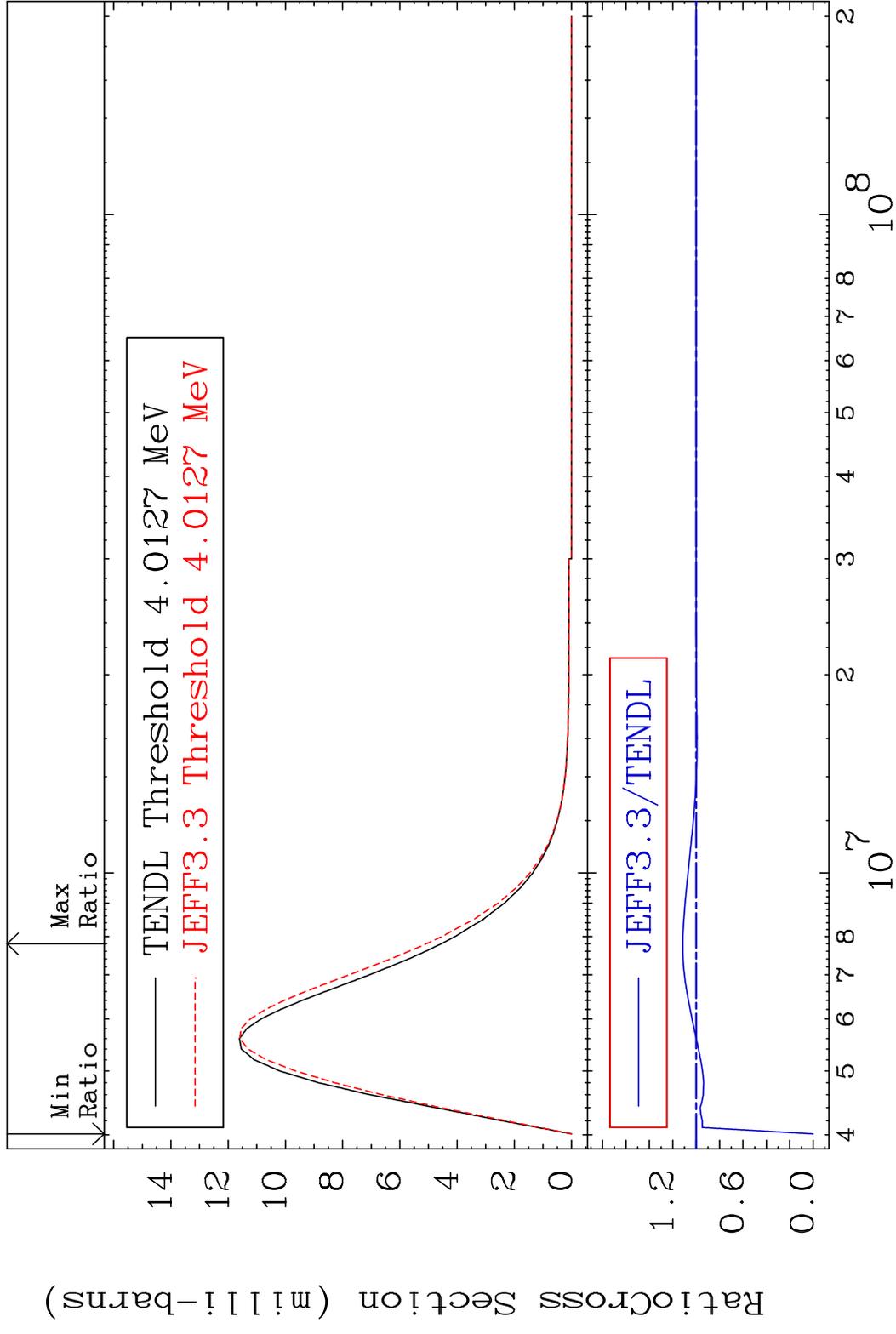
MT= 67 (n, n') Level

20-Ca-44

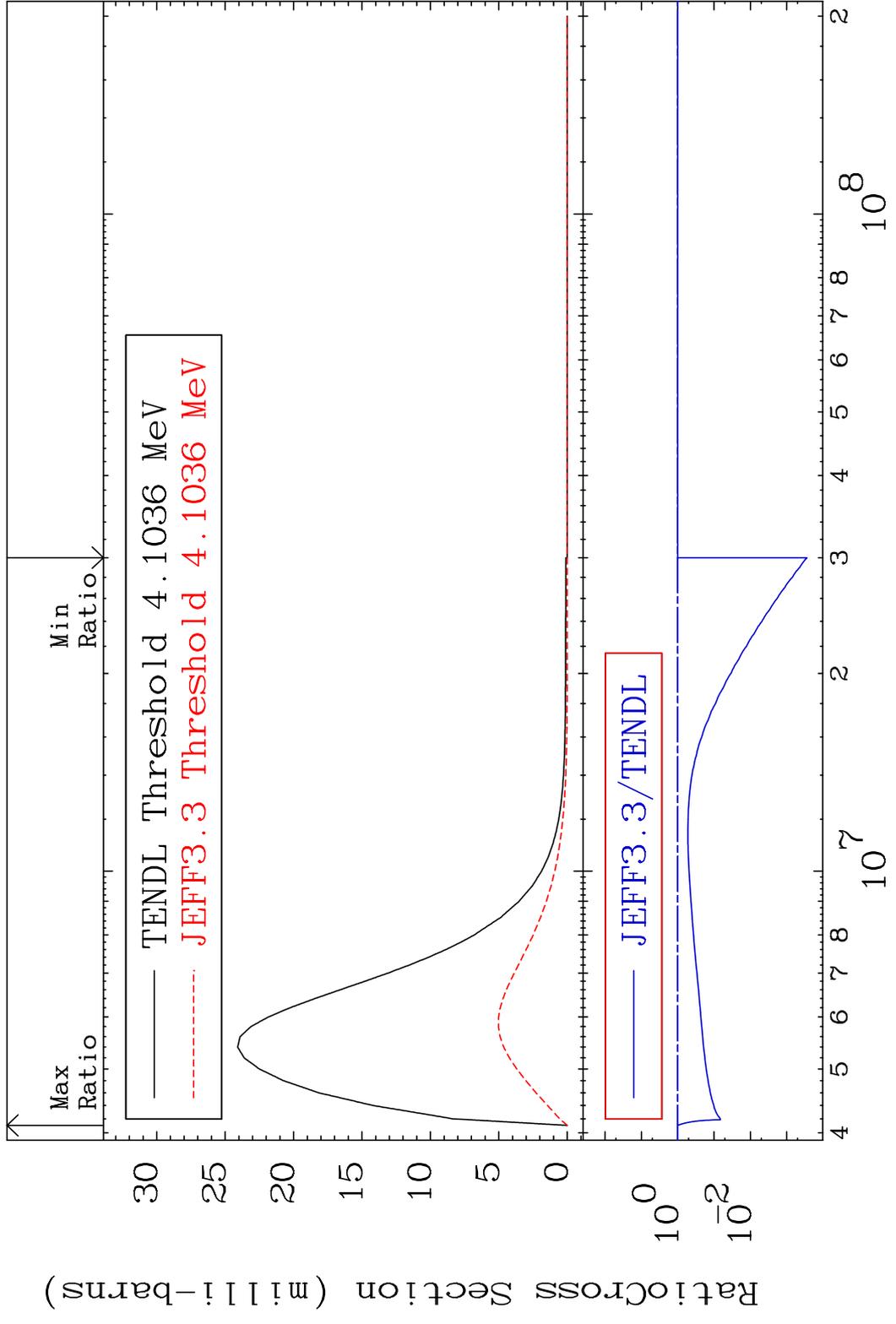
Cross Section -6.422 To 11.42 %



MAT 2037 MT= 68 (n, n') Level 20-Ca-44
 Cross Section -100.0 To 11.42 %

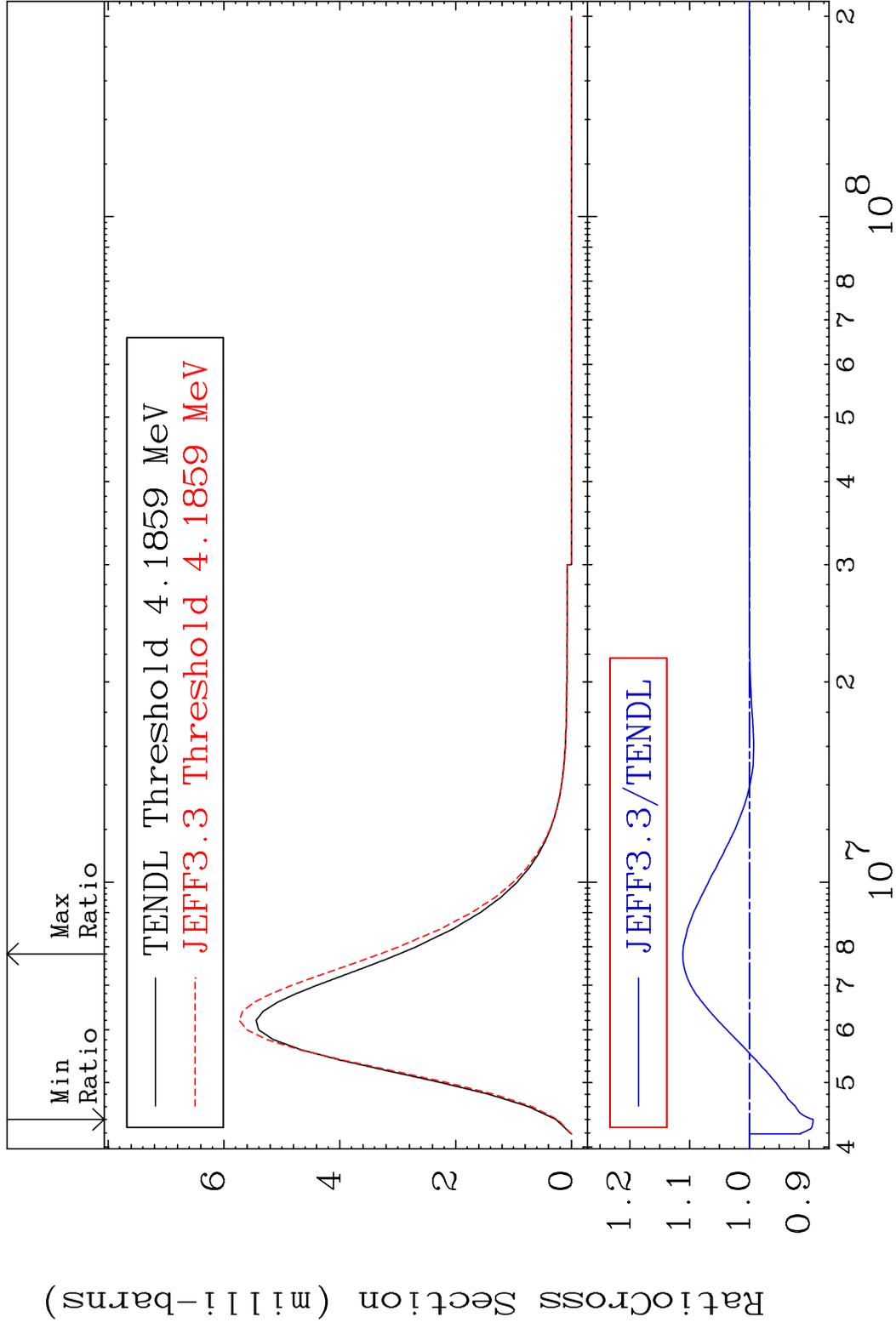


MAT 2037 MT= 69 (n, n') Level 20-Ca-44
 Cross Section -99.97 To 0.000 %

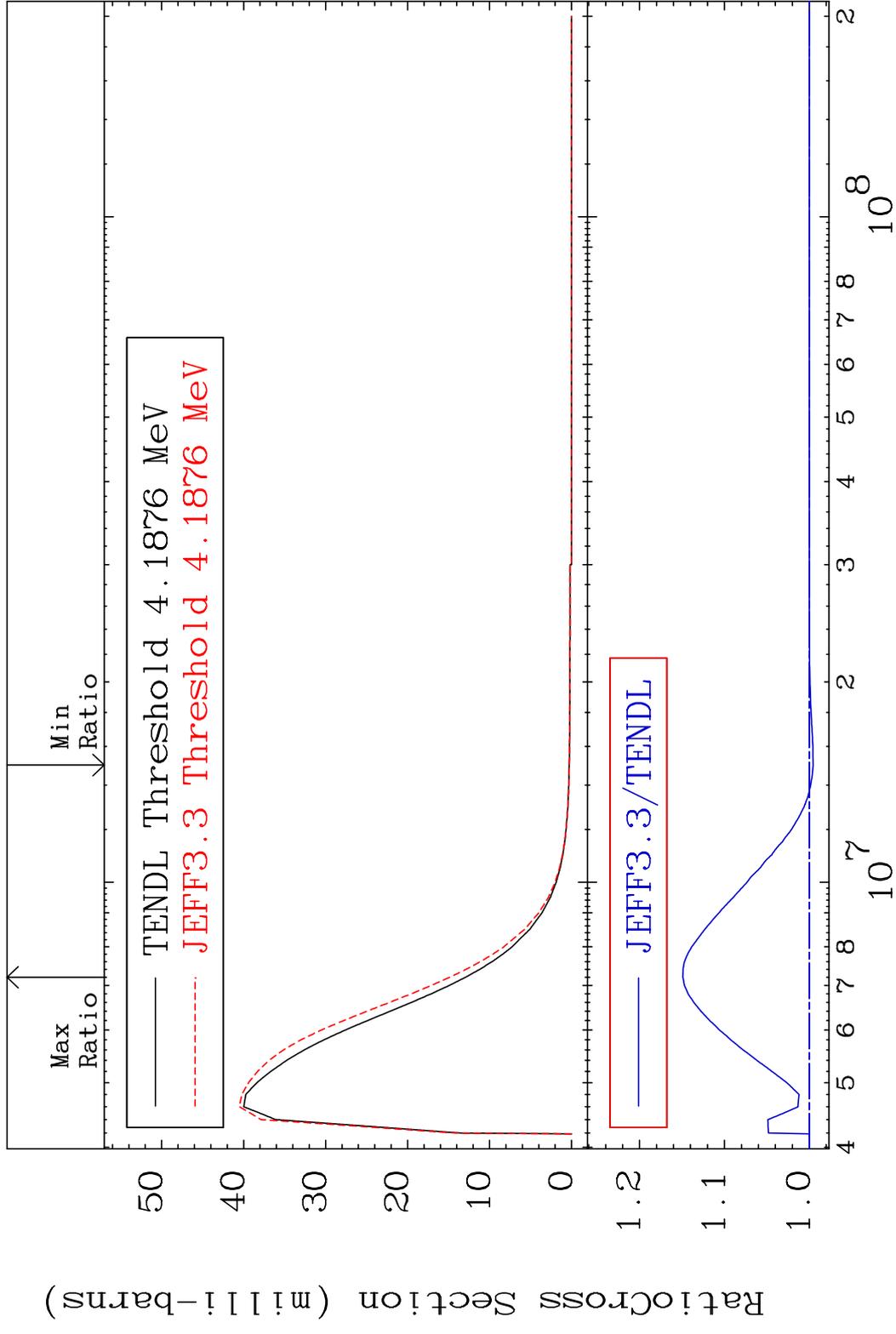


36 Incident Energy (eV) 20-Ca-44

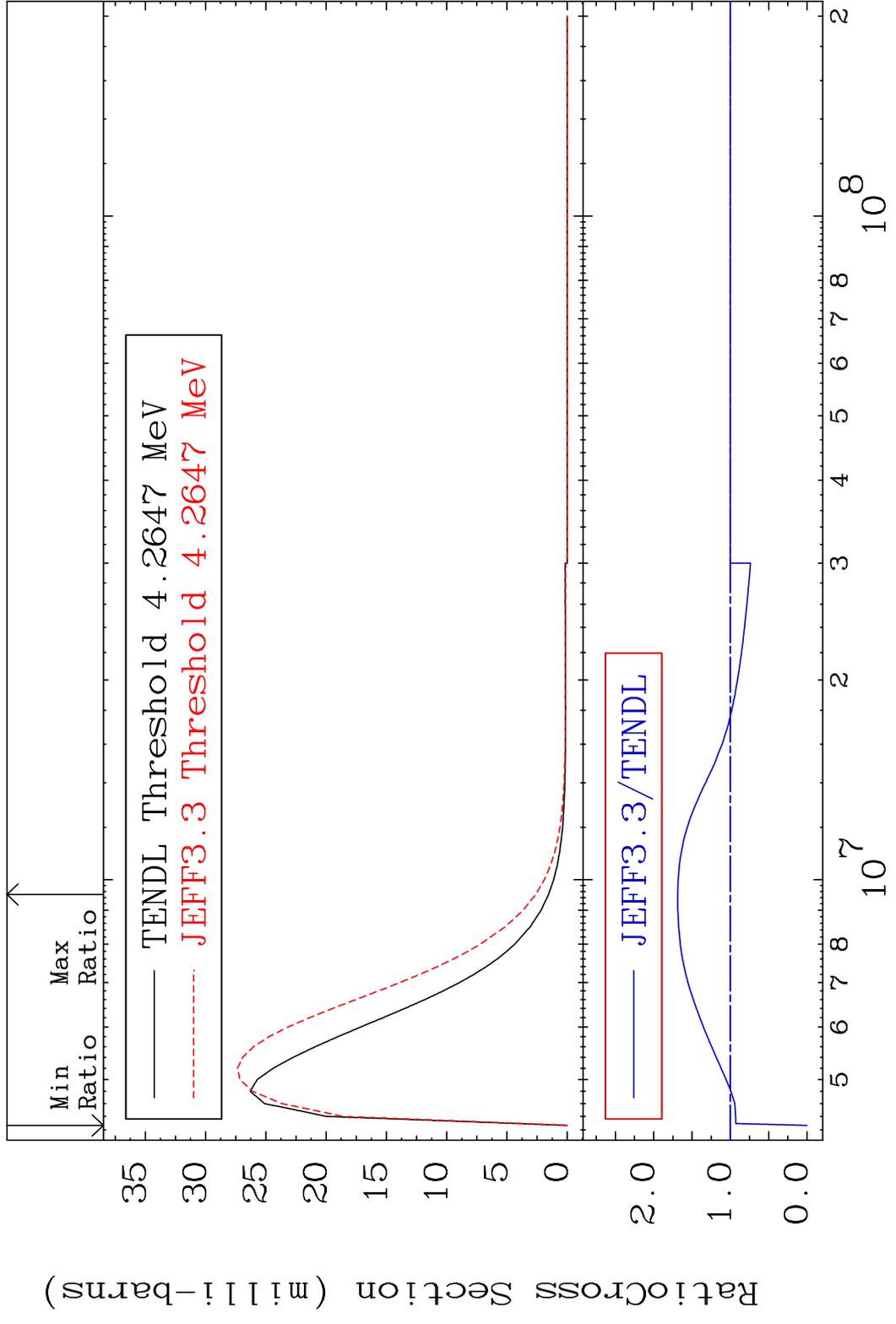
MAT 2037 MT= 70 (n,n') Level 20-Ca-44
 Cross Section -10.68 To 11.14 %



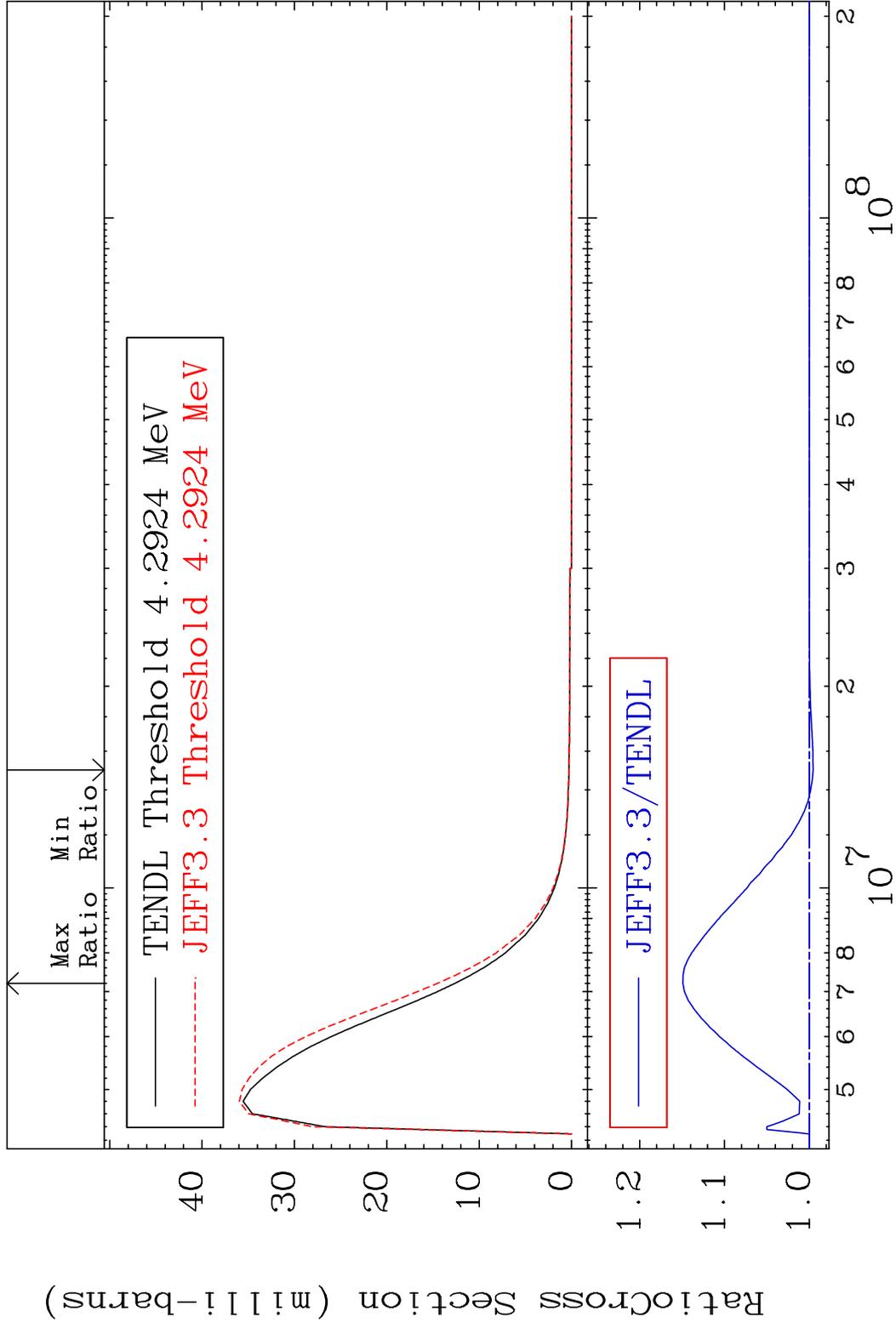
MAT 2037 MT= 71 (n, n') Level 20-Ca-44
 Cross Section -0.450 To 14.90 %



MAT 2037 MT= 72 (n, n') Level 20-Ca-44
 Cross Section -100.0 To 68.71 %



MAT 2037 MT= 73 (n, n') Level 20-Ca-44
 Cross Section -0.452 To 14.91 %



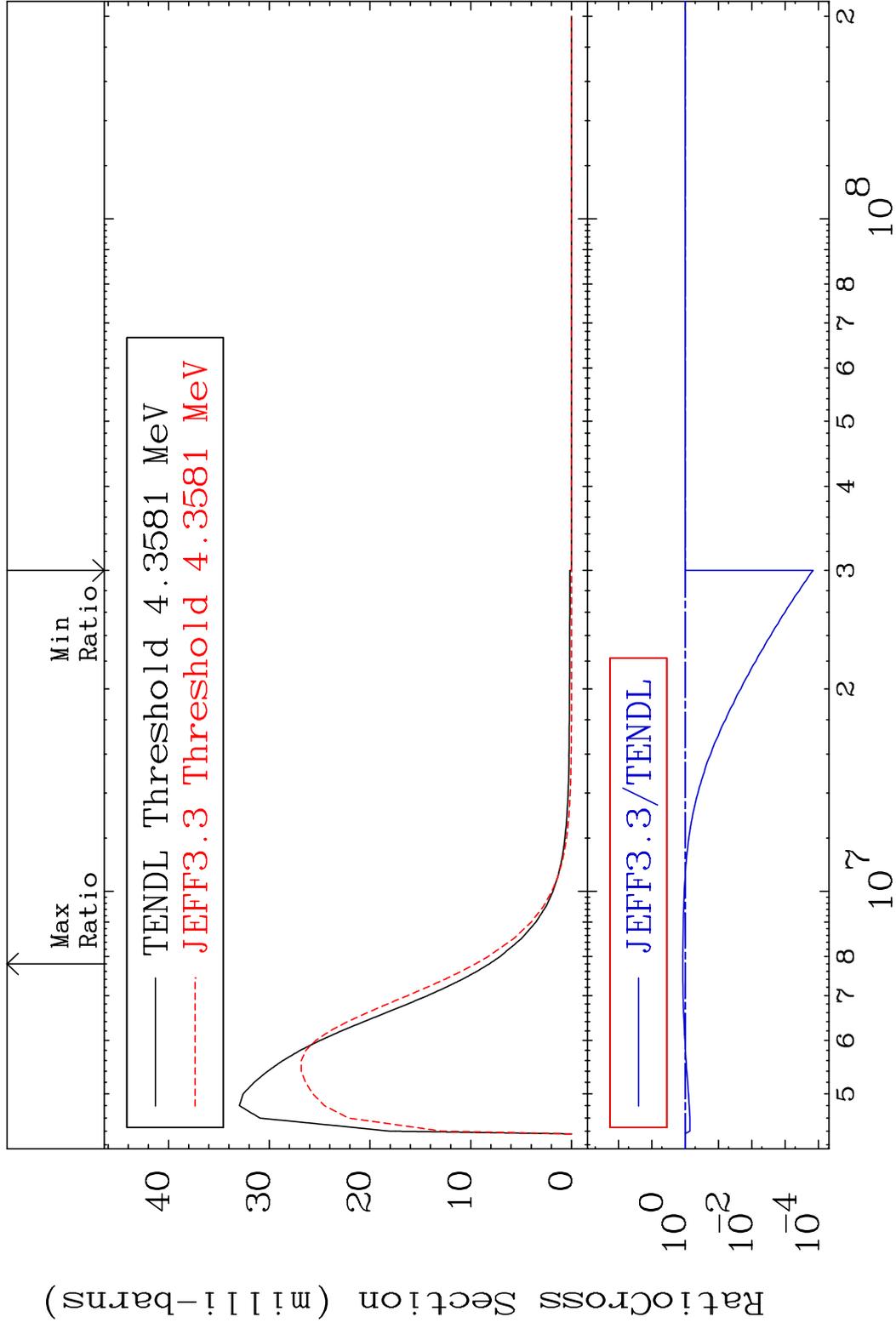
40 Incident Energy (eV) 20-Ca-44

MAT 2037

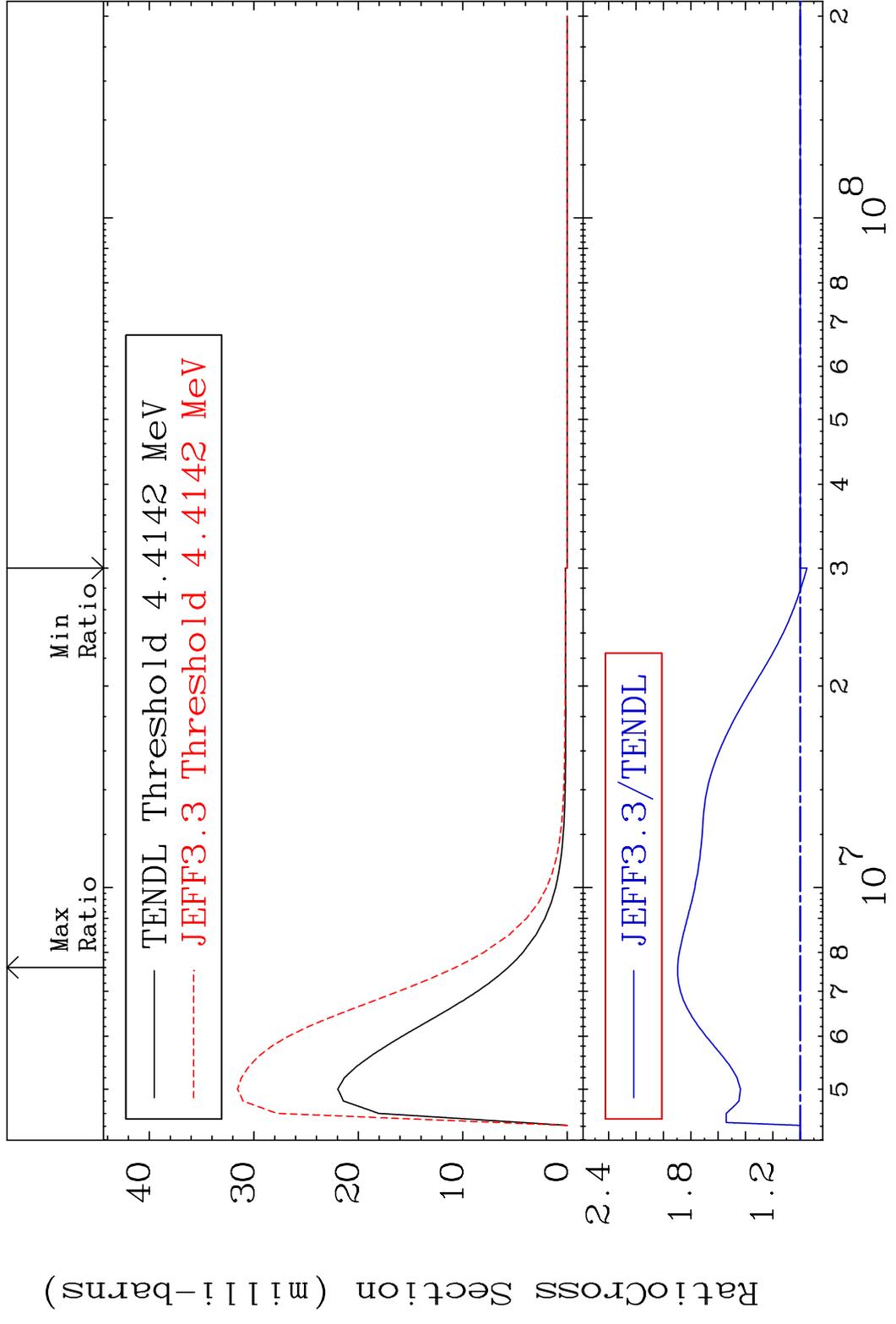
MT= 74 (n, n') Level

20-Ca-44

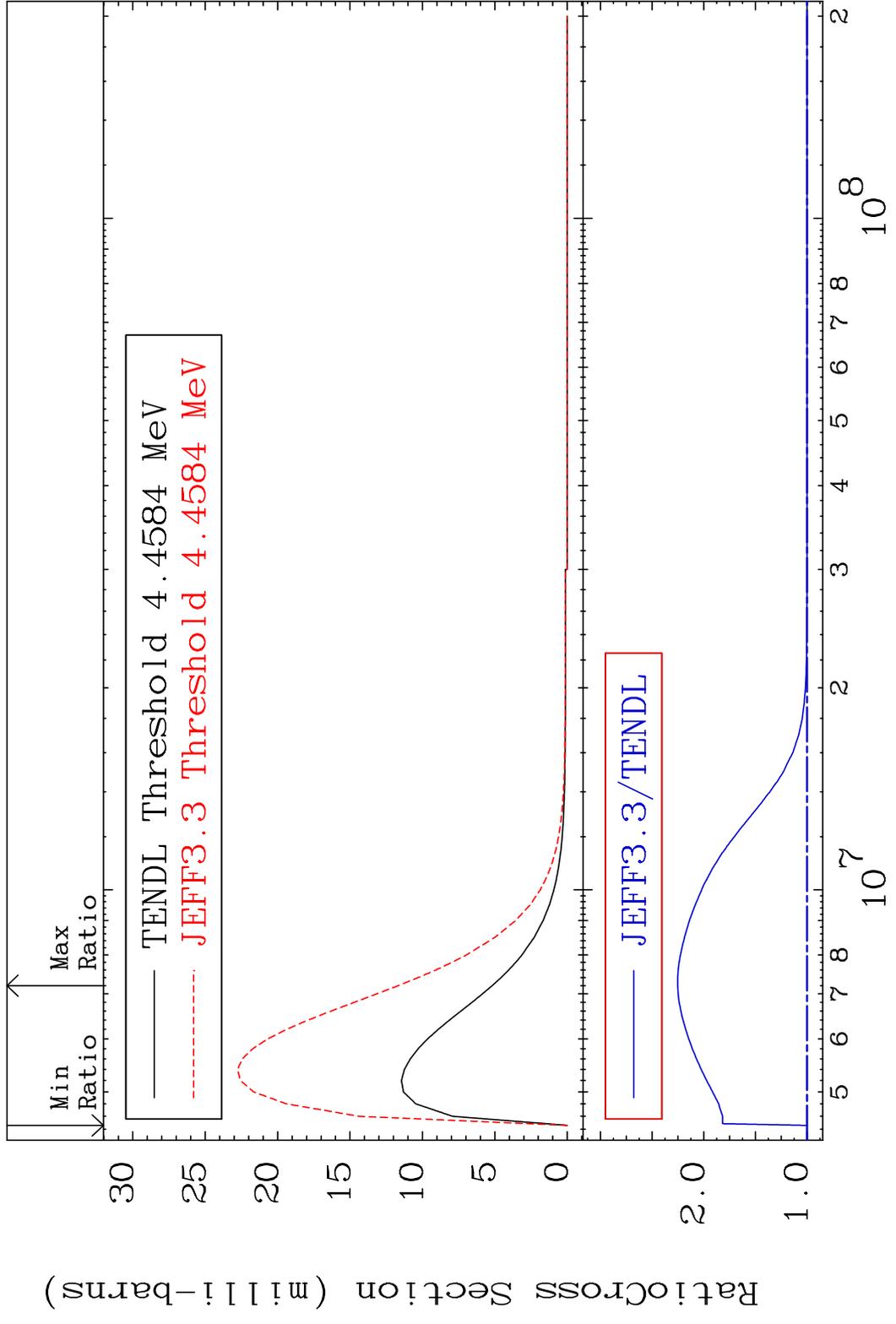
Cross Section -99.99 To 16.75 %



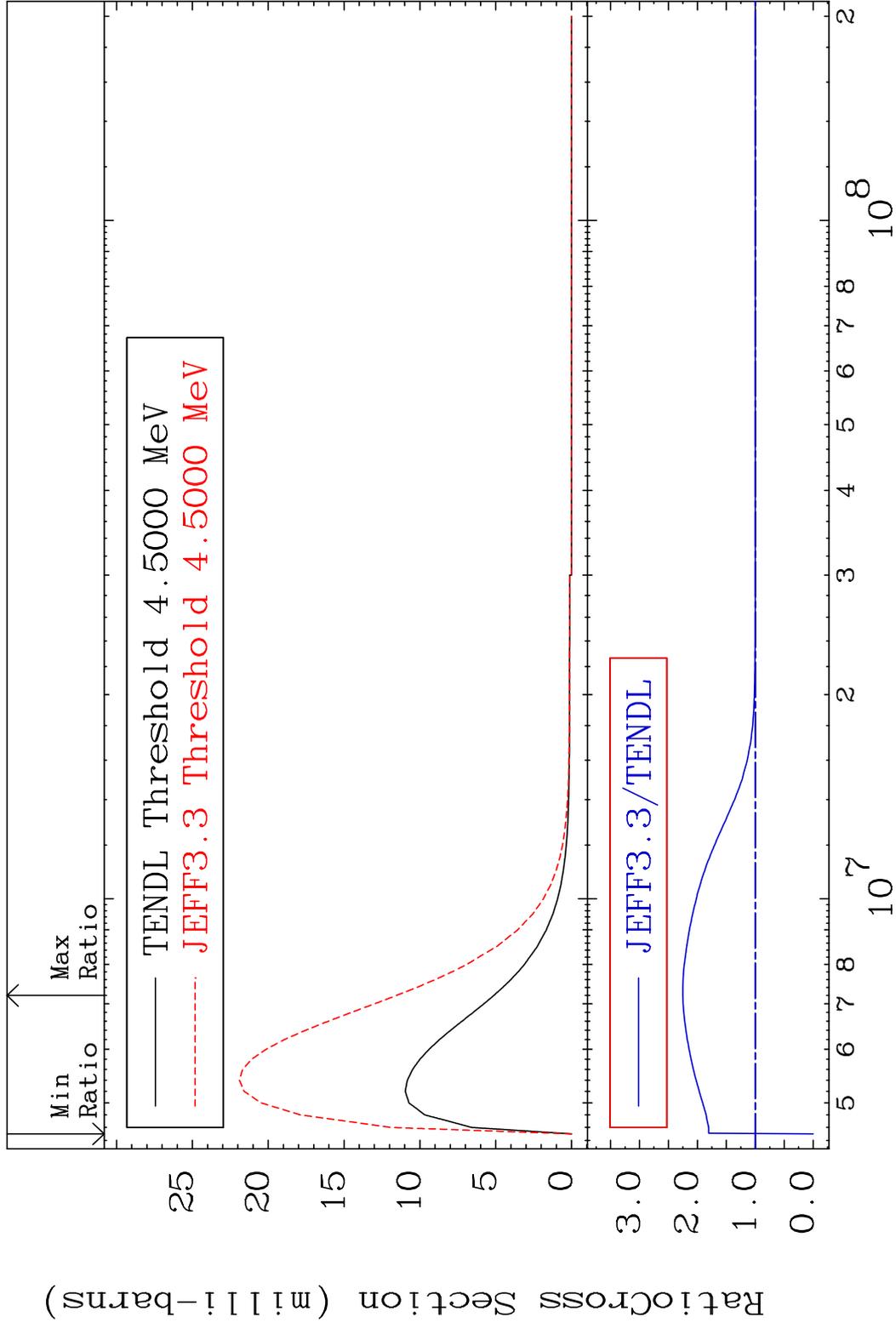
MAT 2037 MT= 75 (n,n') Level 20-Ca-44
 Cross Section -4.970 To 89.57 %



MAT 2037 MT= 76 (n,n') Level 20-Ca-44
 Cross Section 0.000 To 125.2 %



MAT 2037 MT= 77 (n, n') Level 20-Ca-44
 Cross Section -100.0 To 125.2 %



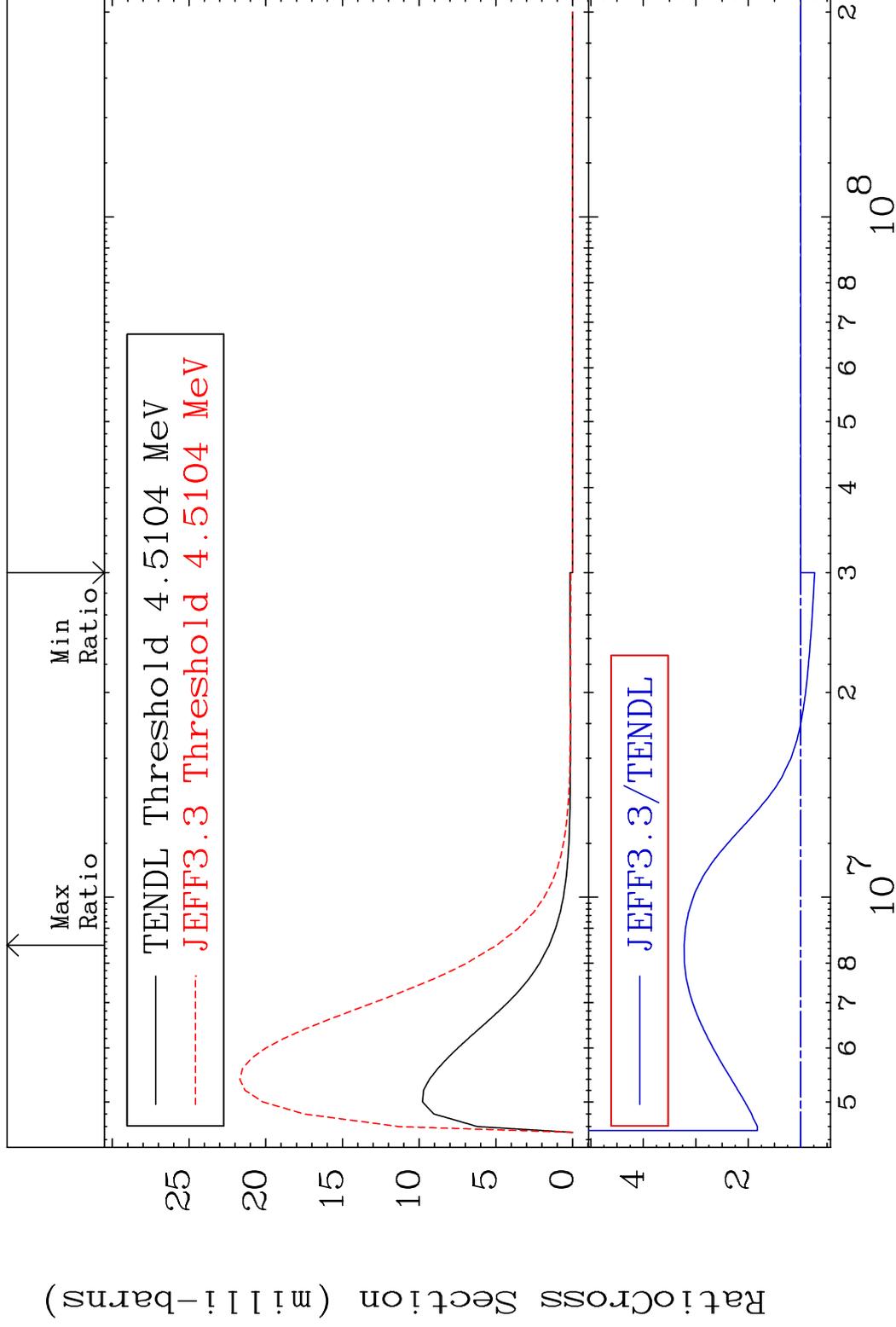
44 Incident Energy (eV) 20-Ca-44

MAT 2037

MT= 78 (n, n') Level

20-Ca-44

Cross Section -26.53 To 222.2 %

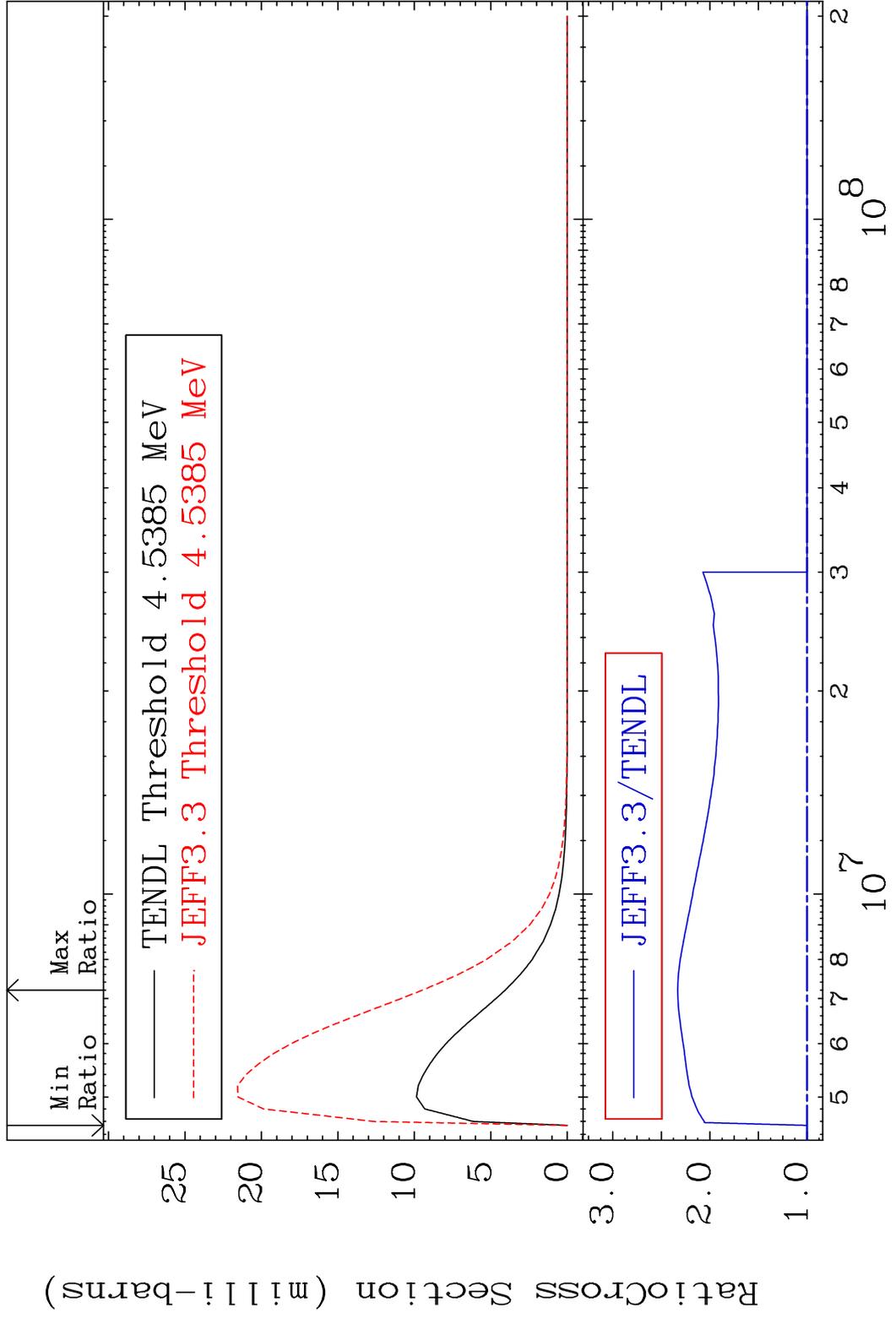


45

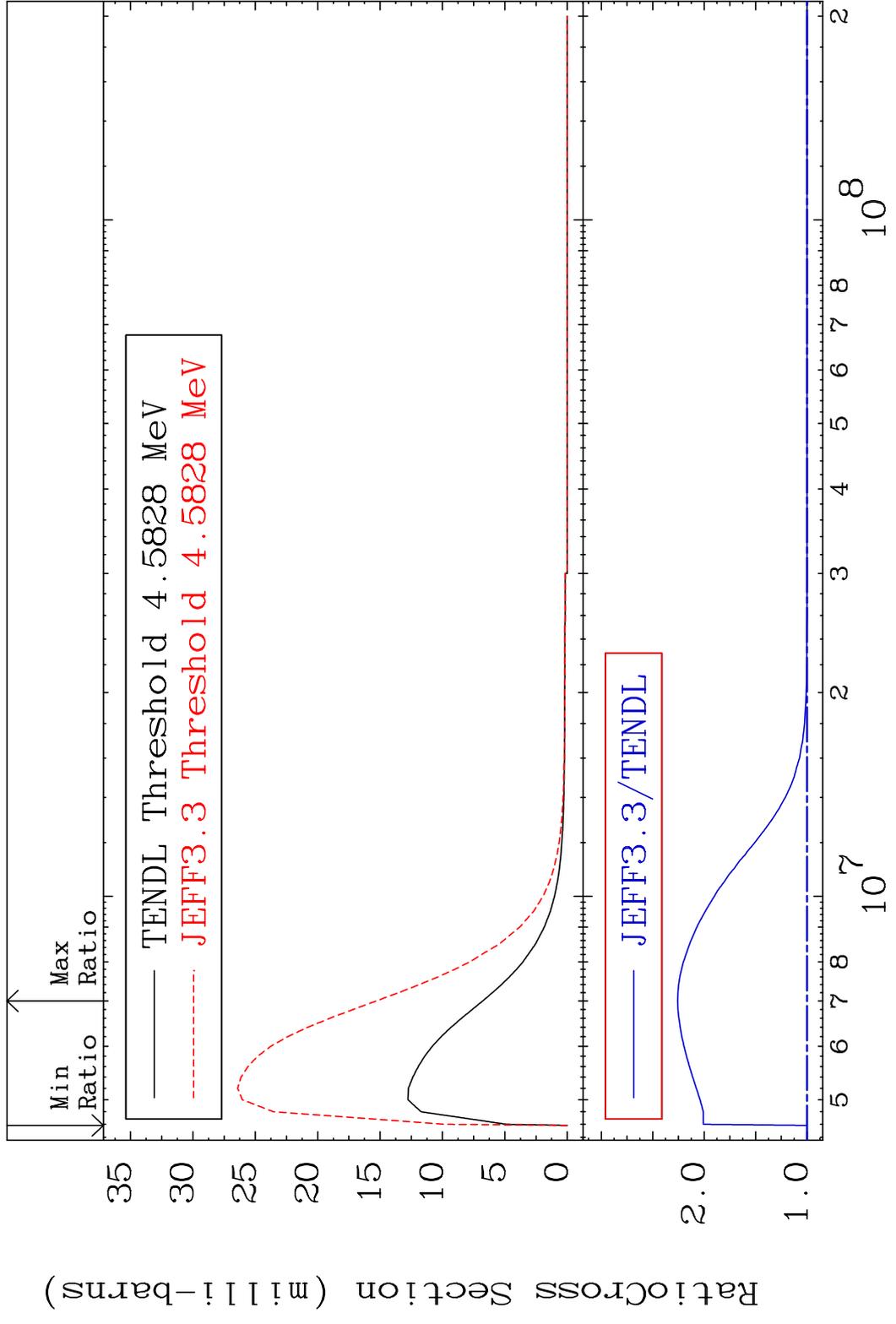
Incident Energy (eV)

20-Ca-44

MAT 2037 MT= 79 (n,n') Level 20-Ca-44
 Cross Section 0.000 To 133.1 %



MAT 2037 MT= 80 (n, n') Level 20-Ca-44
 Cross Section 0.000 To 125.7 %

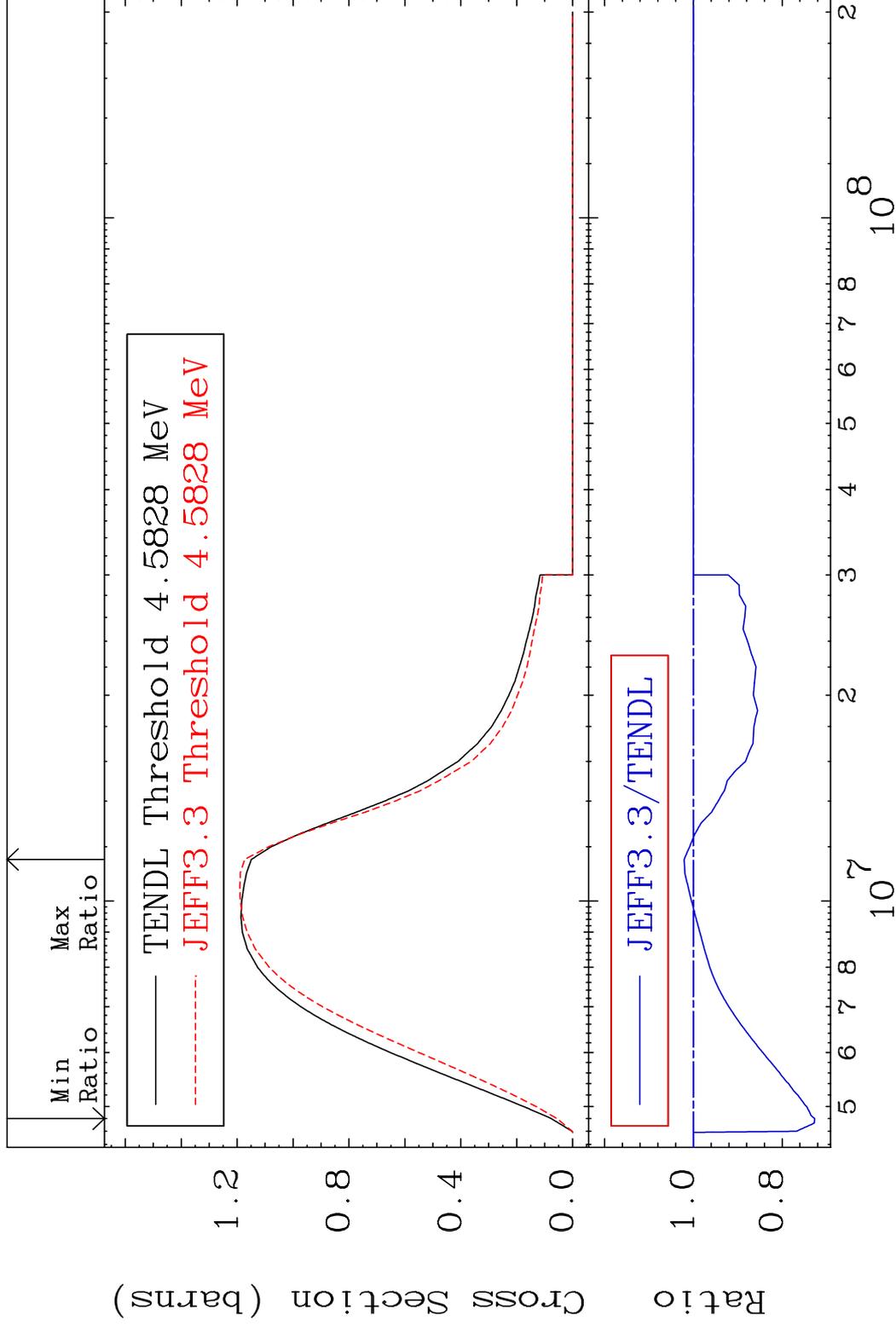


MAT 2037

(n,n') Continuum

20-Ca-44

Cross Section -27.32 To 2.079 %



48

Incident Energy (eV)

20-Ca-44

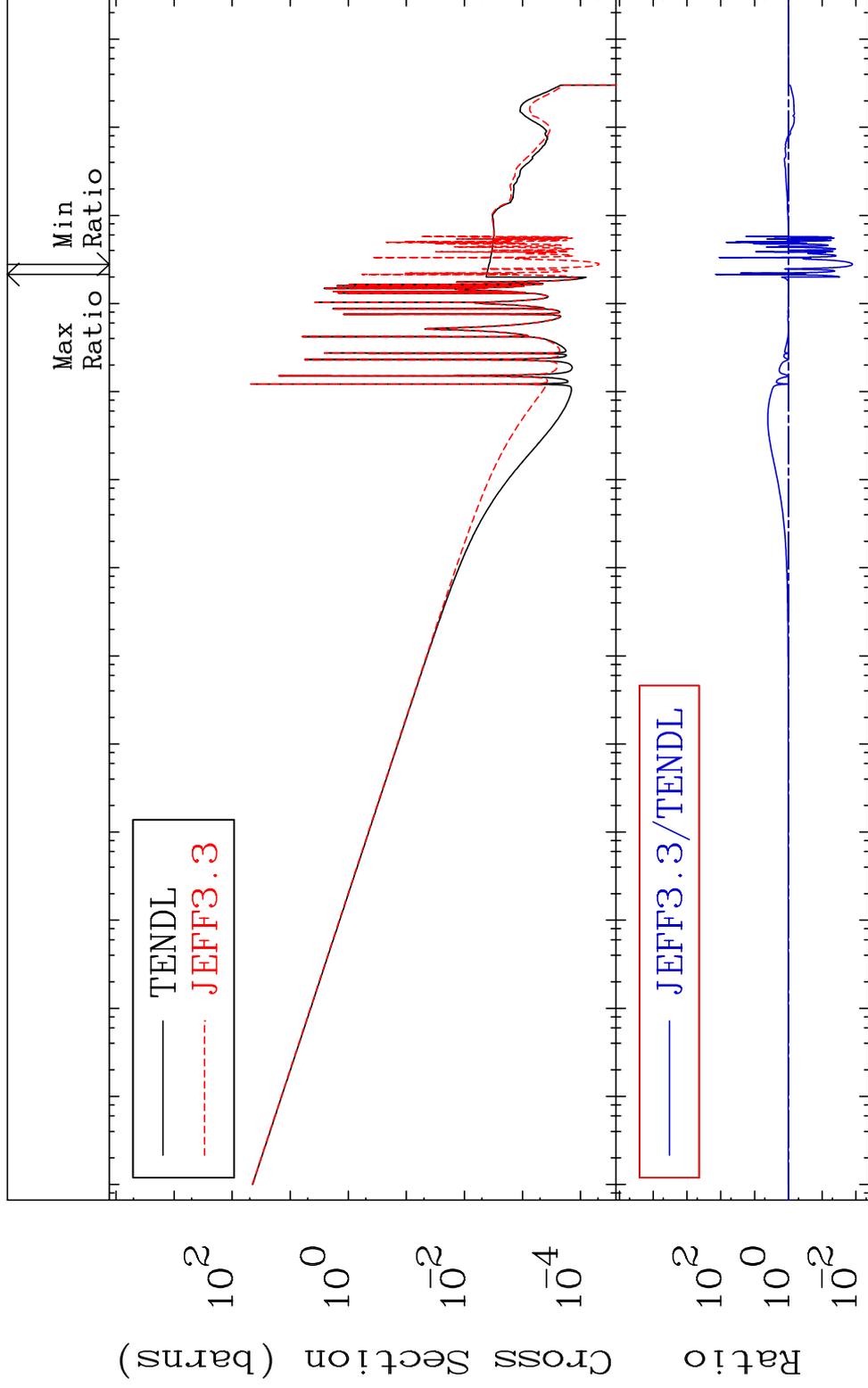
MAT 2037

(n, γ)

20-Ca-44

Cross Section

-98.73 To 9999. %



49

Incident Energy (eV)

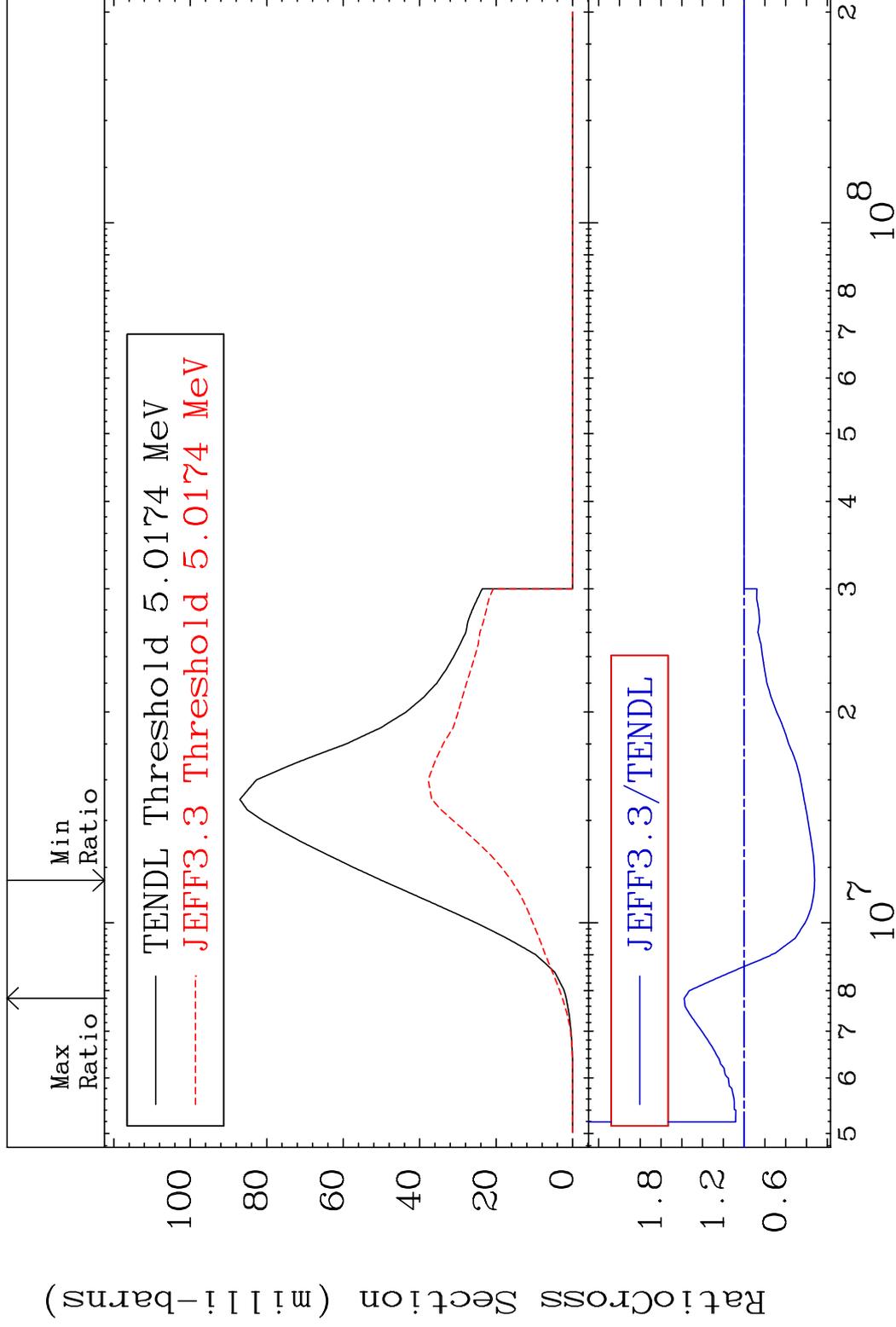
20-Ca-44

MAT 2037

(n, p)

20-Ca-44

Cross Section -67.88 To 57.73 %



50

Incident Energy (eV)

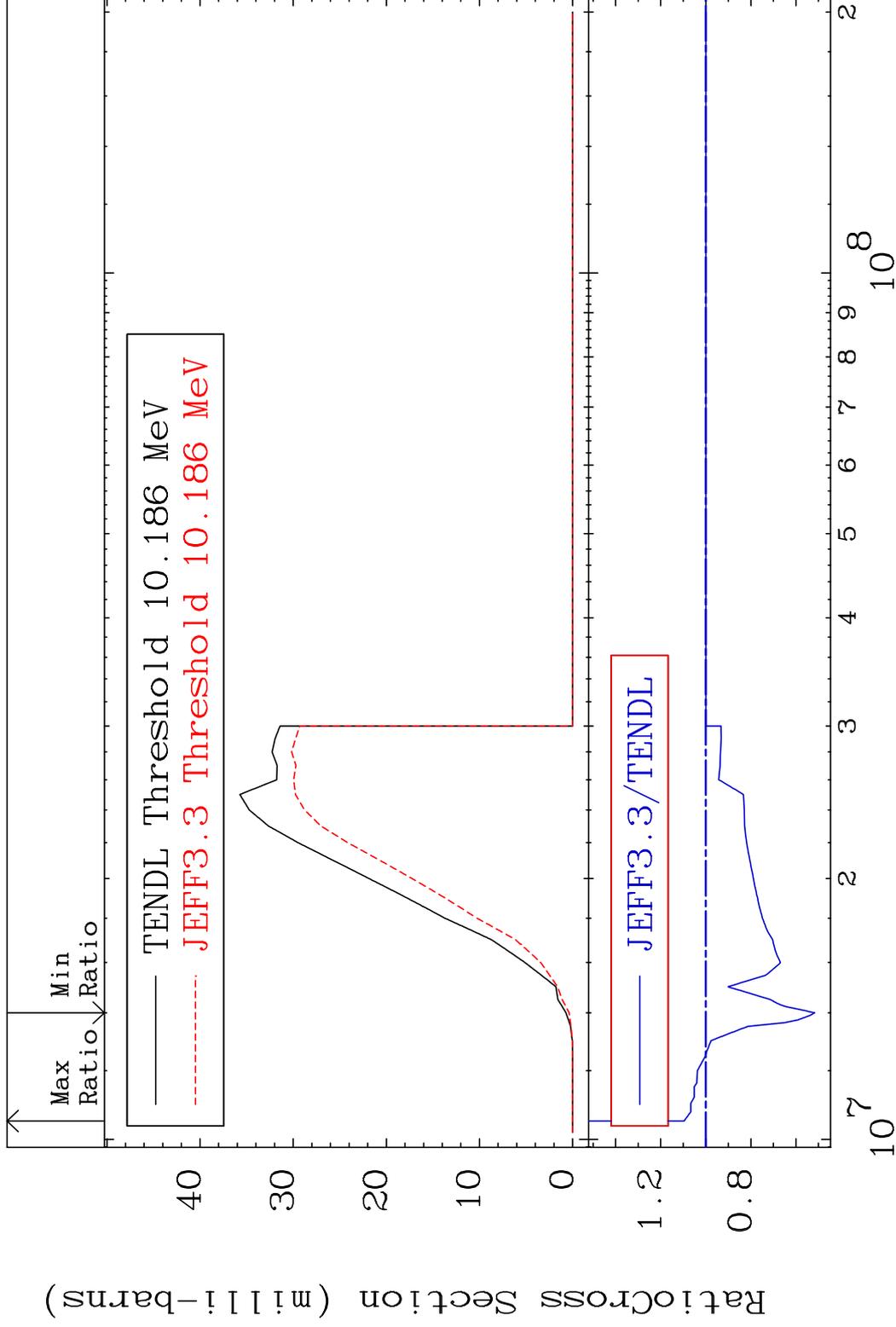
20-Ca-44

MAT 2037

(n, d)

20-Ca-44

Cross Section -48.33 To 9.612 %



51

Incident Energy (eV)

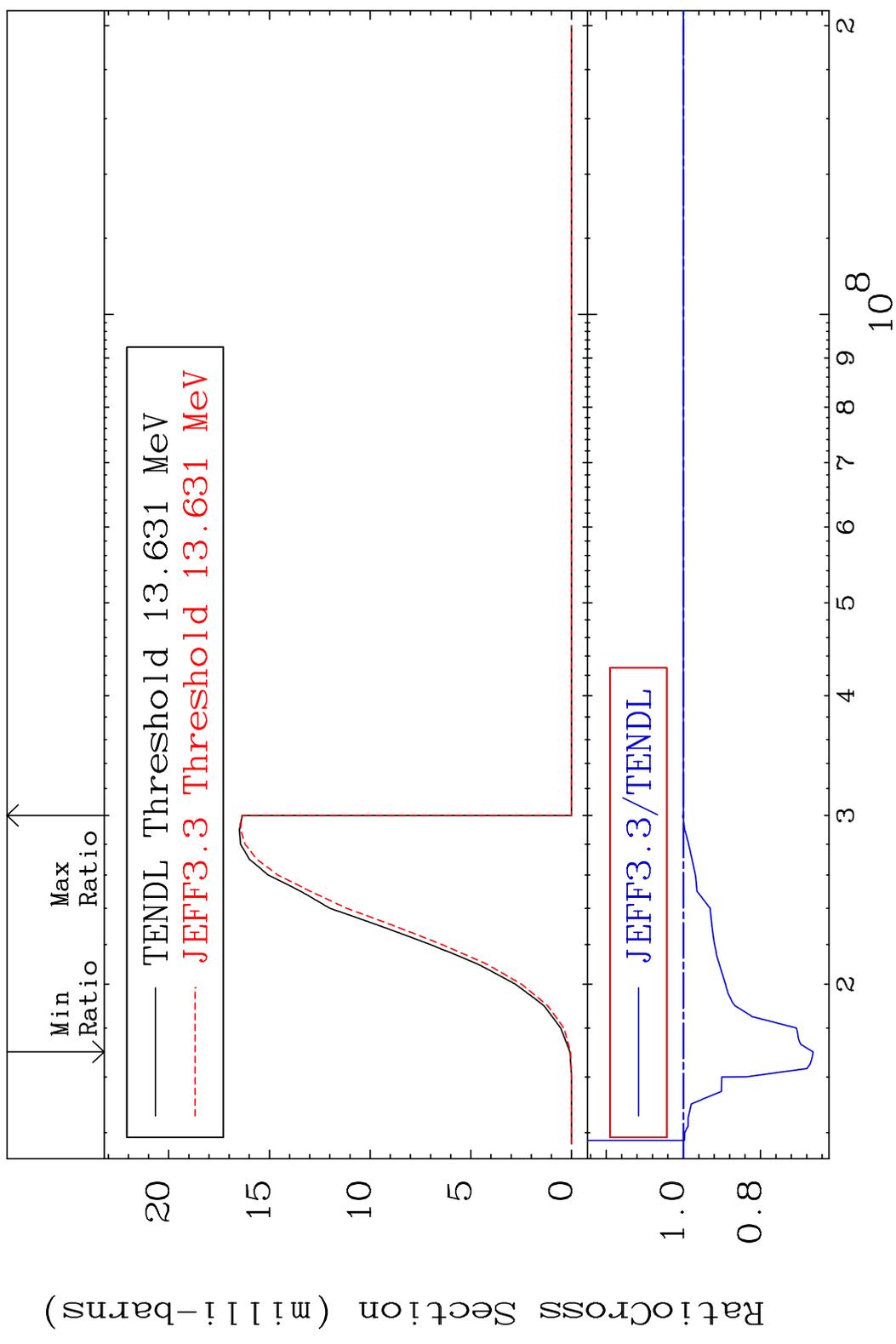
20-Ca-44

MAT 2037

(n, t)

20-Ca-44

Cross Section -33.65 To 0.125 %

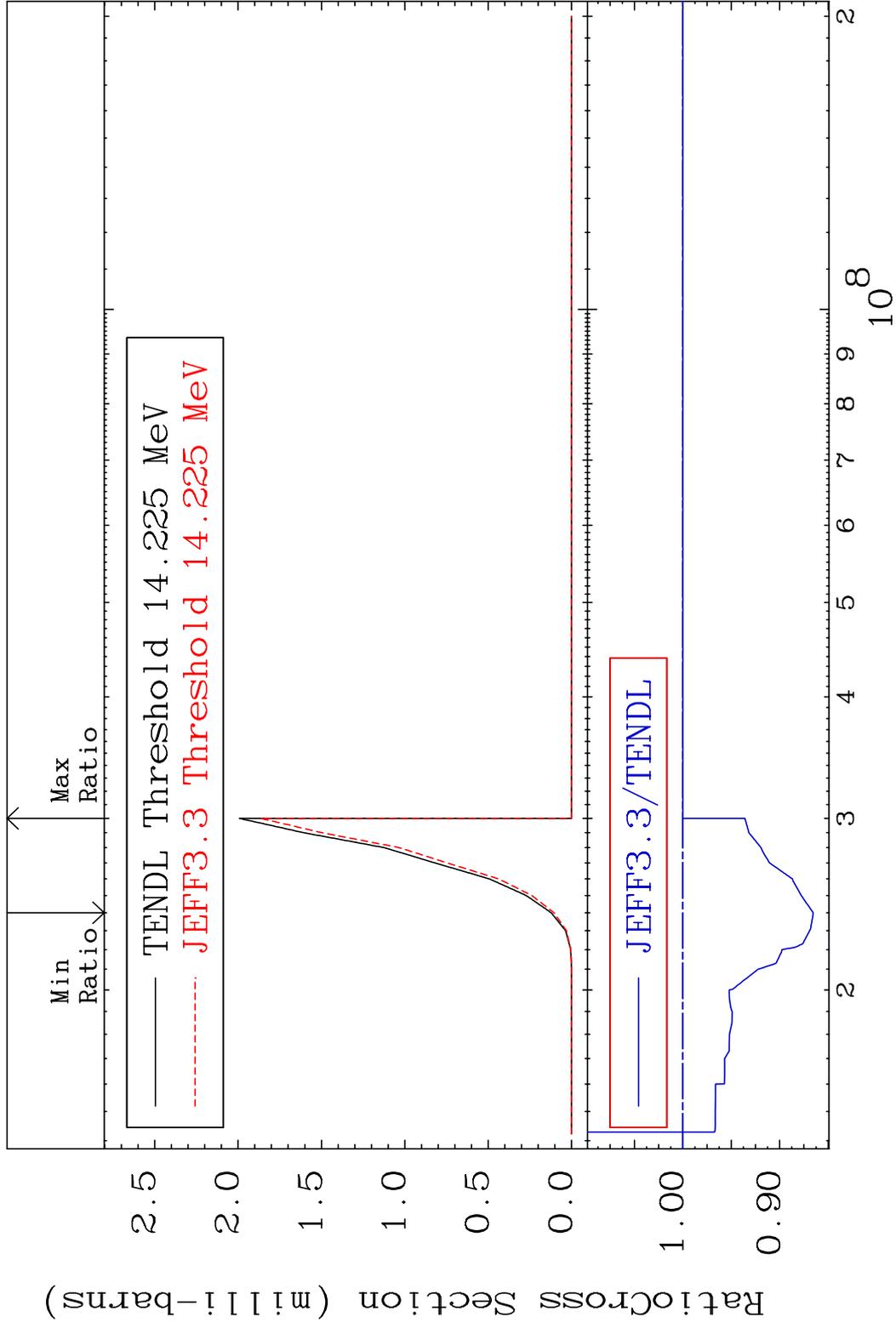


MAT 2037

(n, He-3)

20-Ca-44

Cross Section -13.45 To 0.000 %

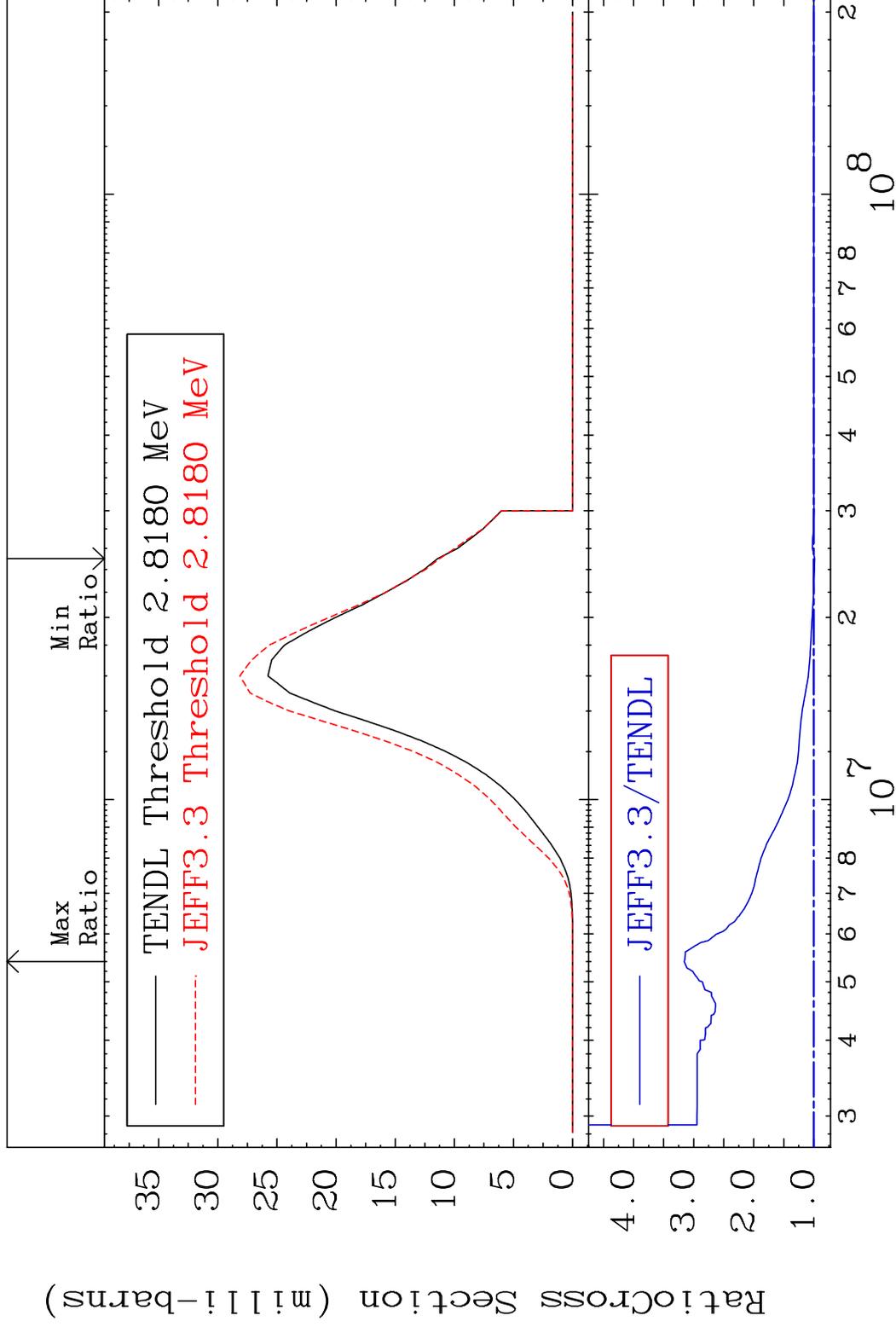


MAT 2037

(n, α)

20-Ca-44

Cross Section -1.464 To 215.9 %

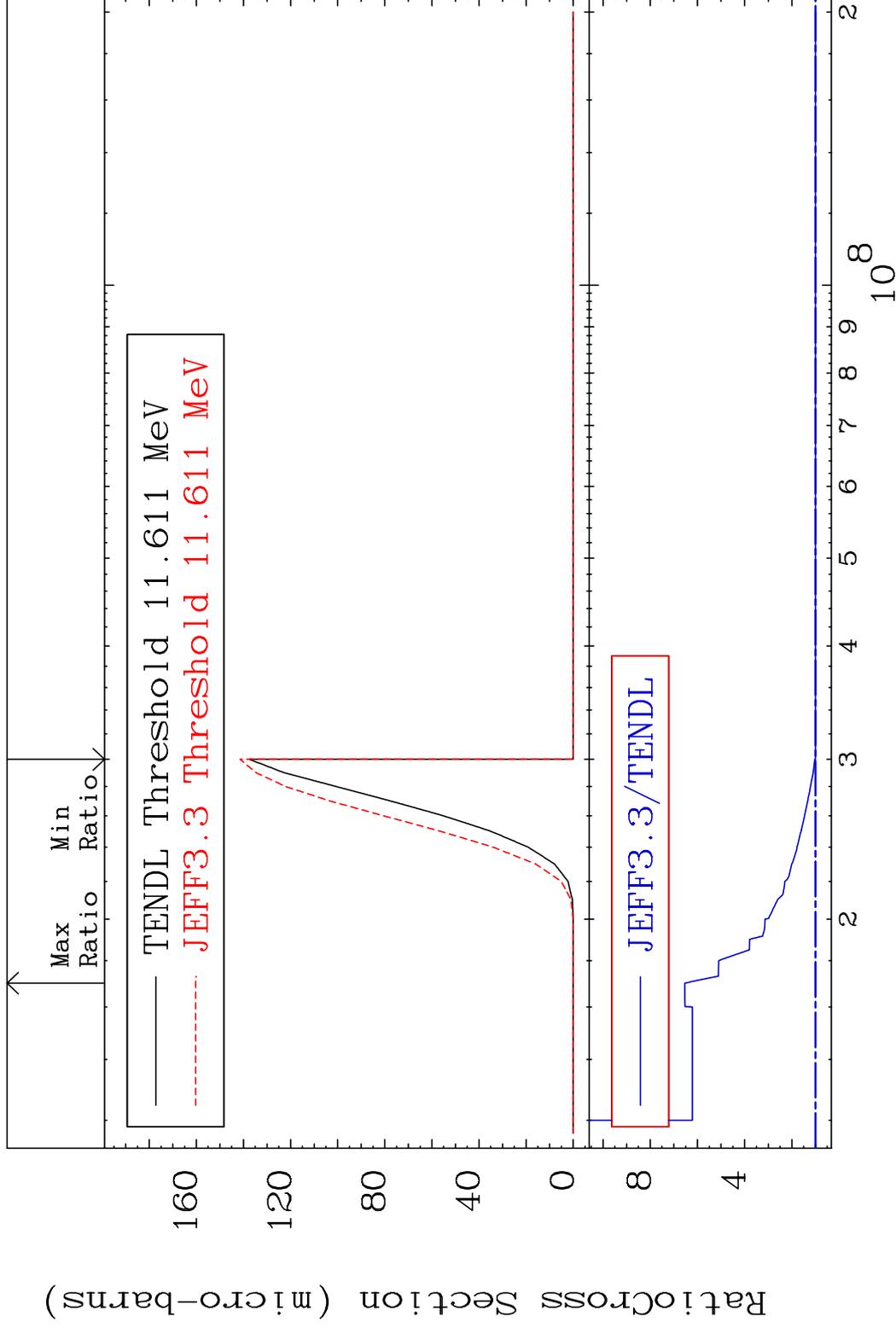


MAT 2037

(n,2α)

20-Ca-44

Cross Section 0.000 To 553.6 %

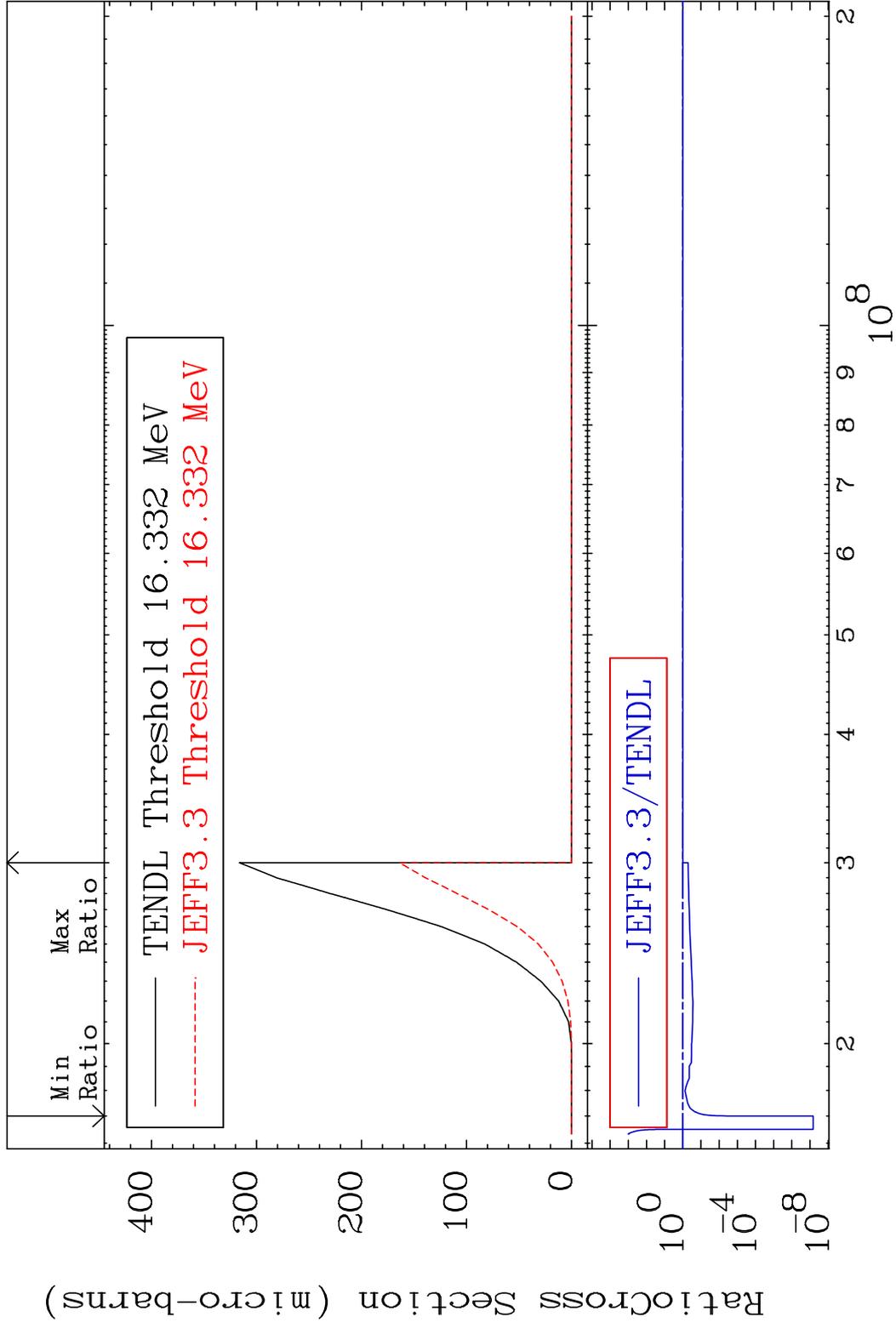


55

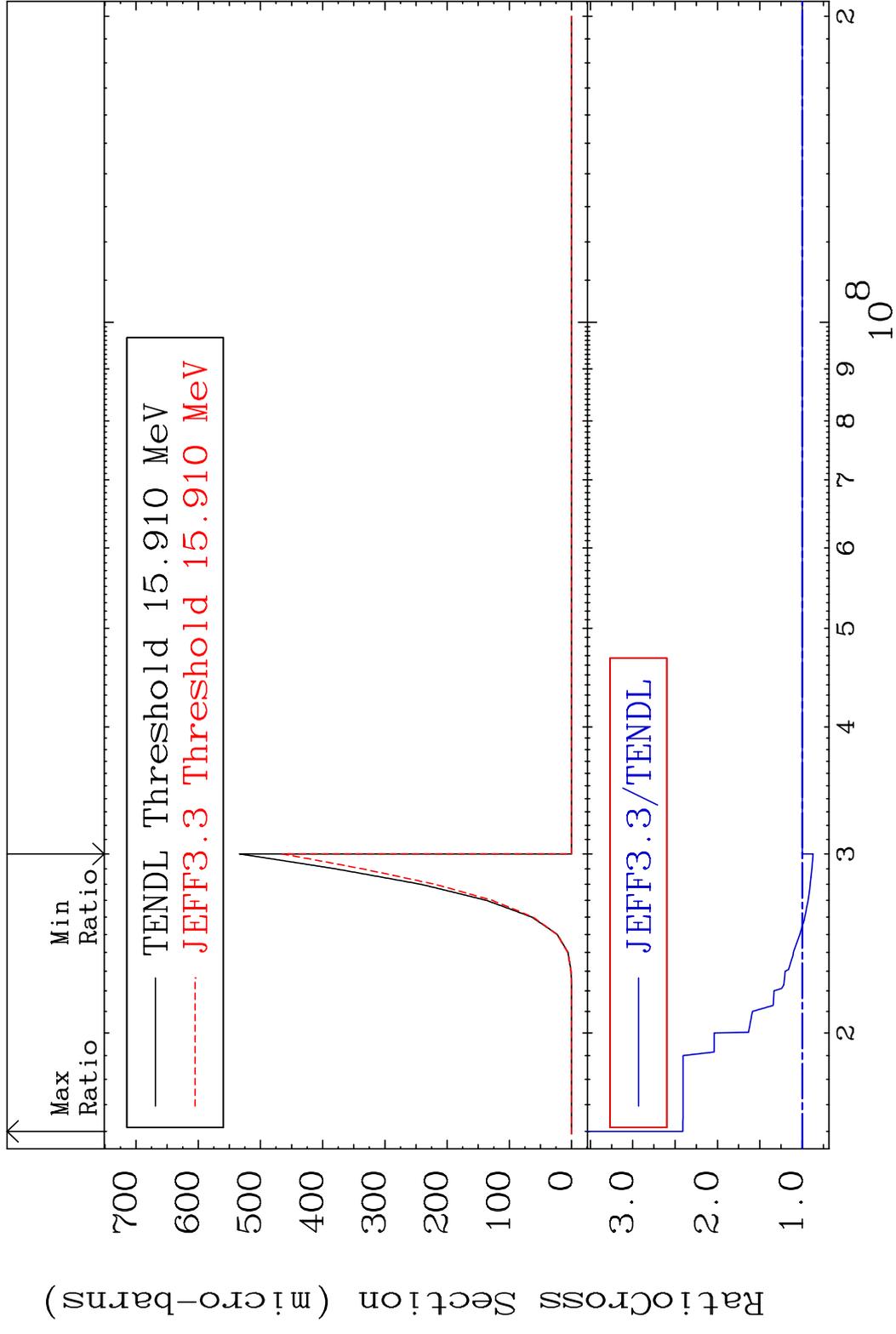
Incident Energy (eV)

20-Ca-44

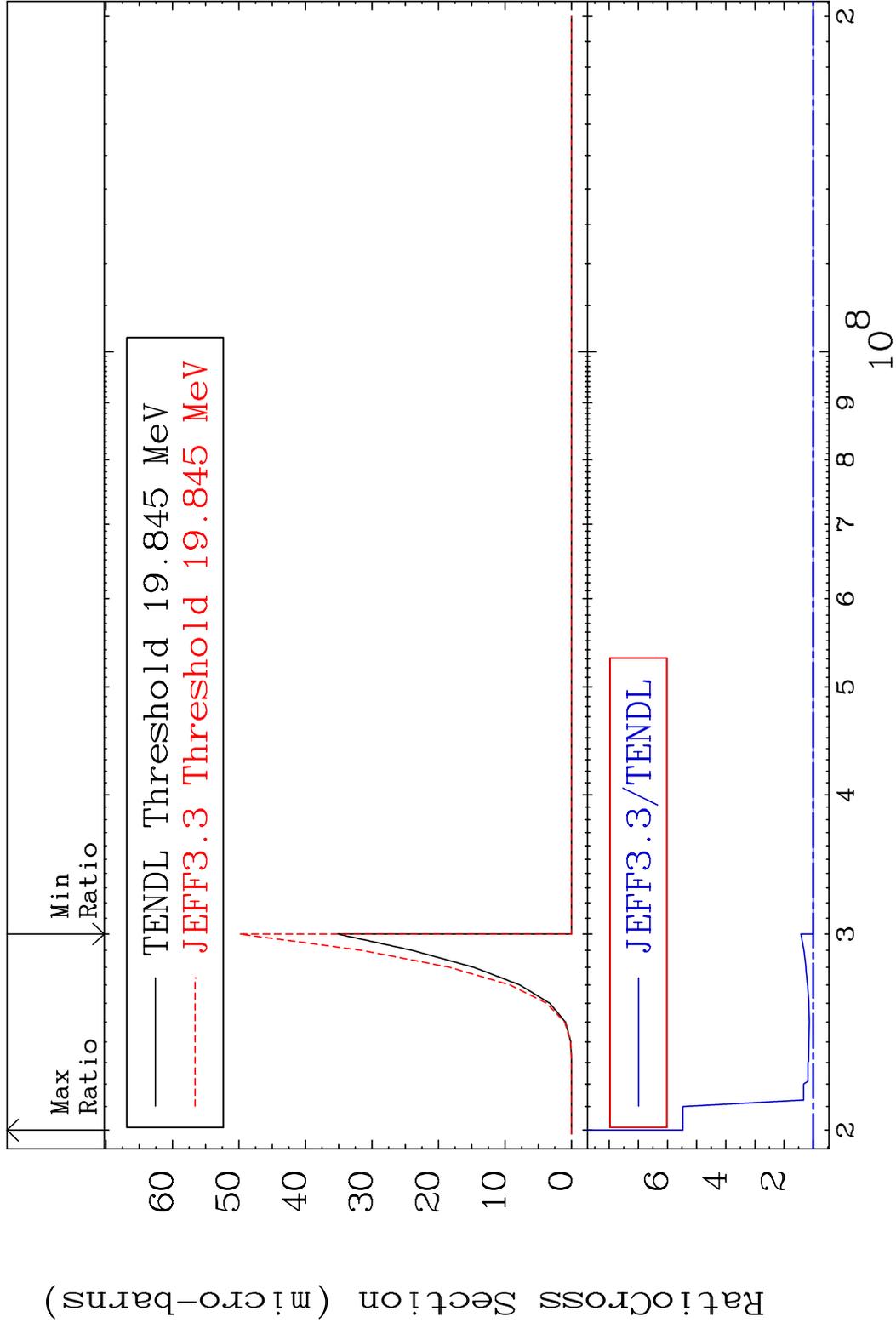
MAT 2037 (n,2p) 20-Ca-44
 Cross Section -100.0 To 0.000 %



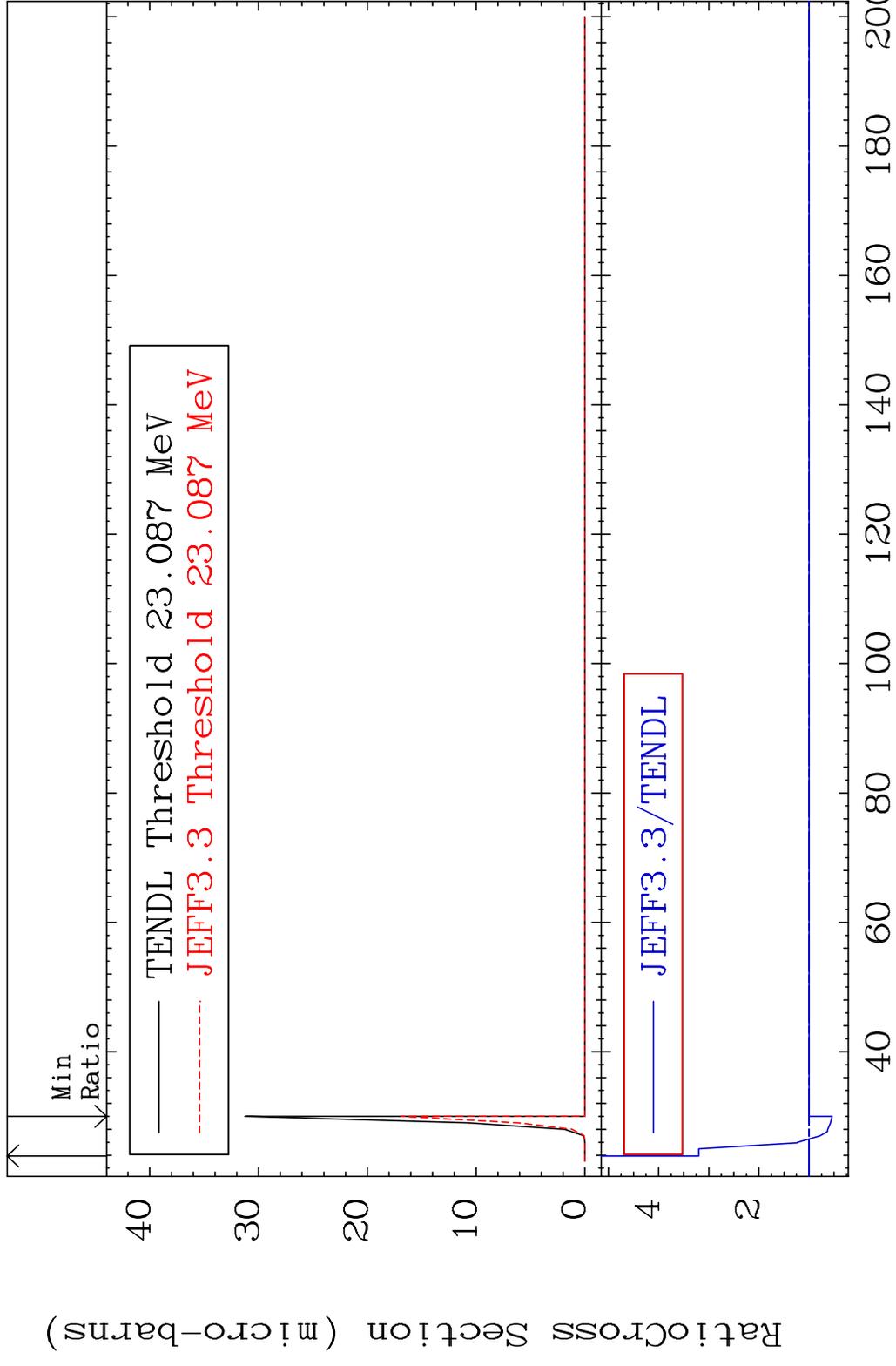
MAT 2037 (n,p) α 20-Ca-44
 Cross Section -12.90 To 140.9 %



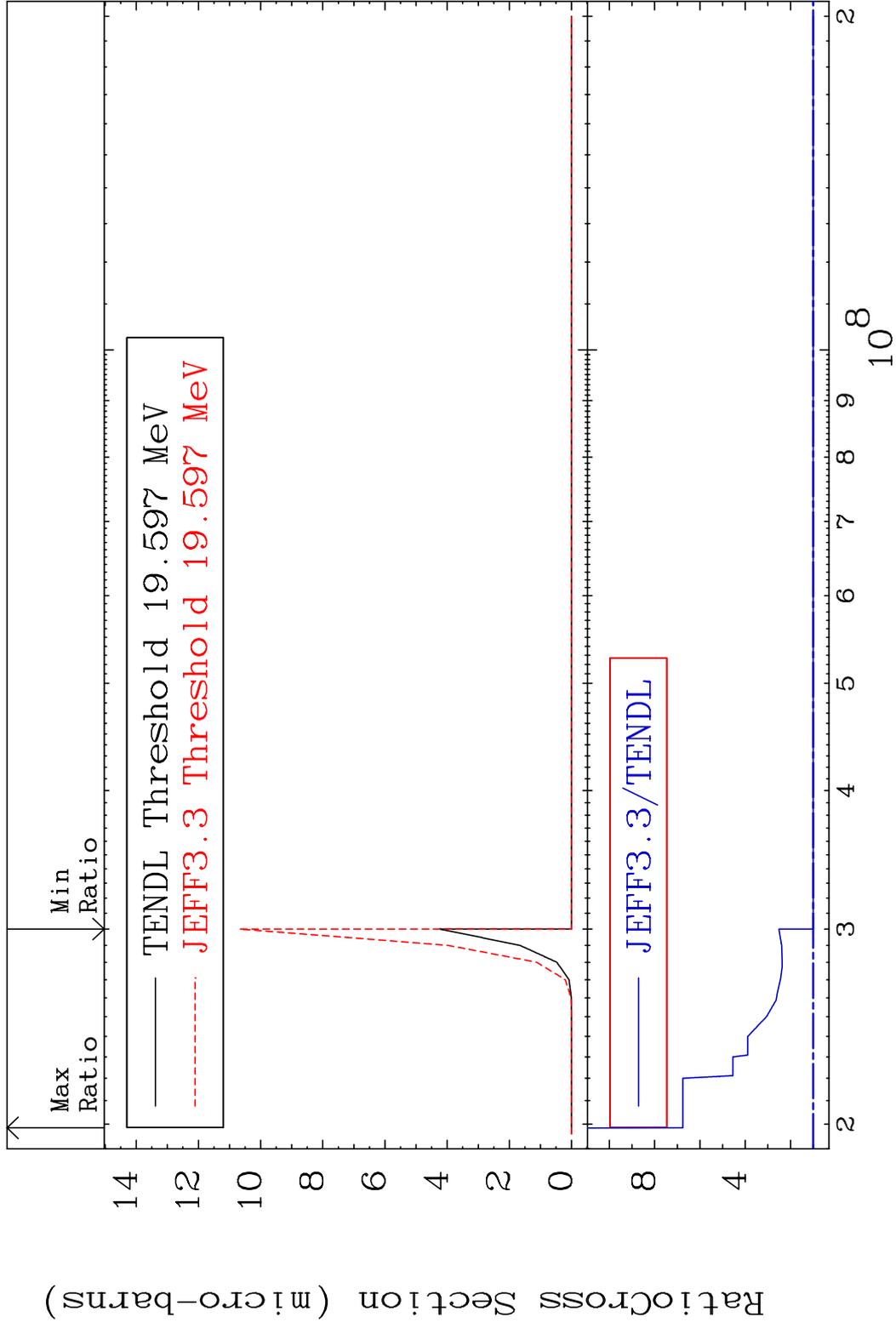
MAT 2037 (n,p) d 20-Ca-44
 Cross Section 0.000 To 447.3 %



MAT 2037 (n,p) t 20-Ca-44
 Cross Section -45.95 To 219.9 %



MAT 2037 (n,d) α 20-Ca-44
 Cross Section 0.000 To 575.6 %

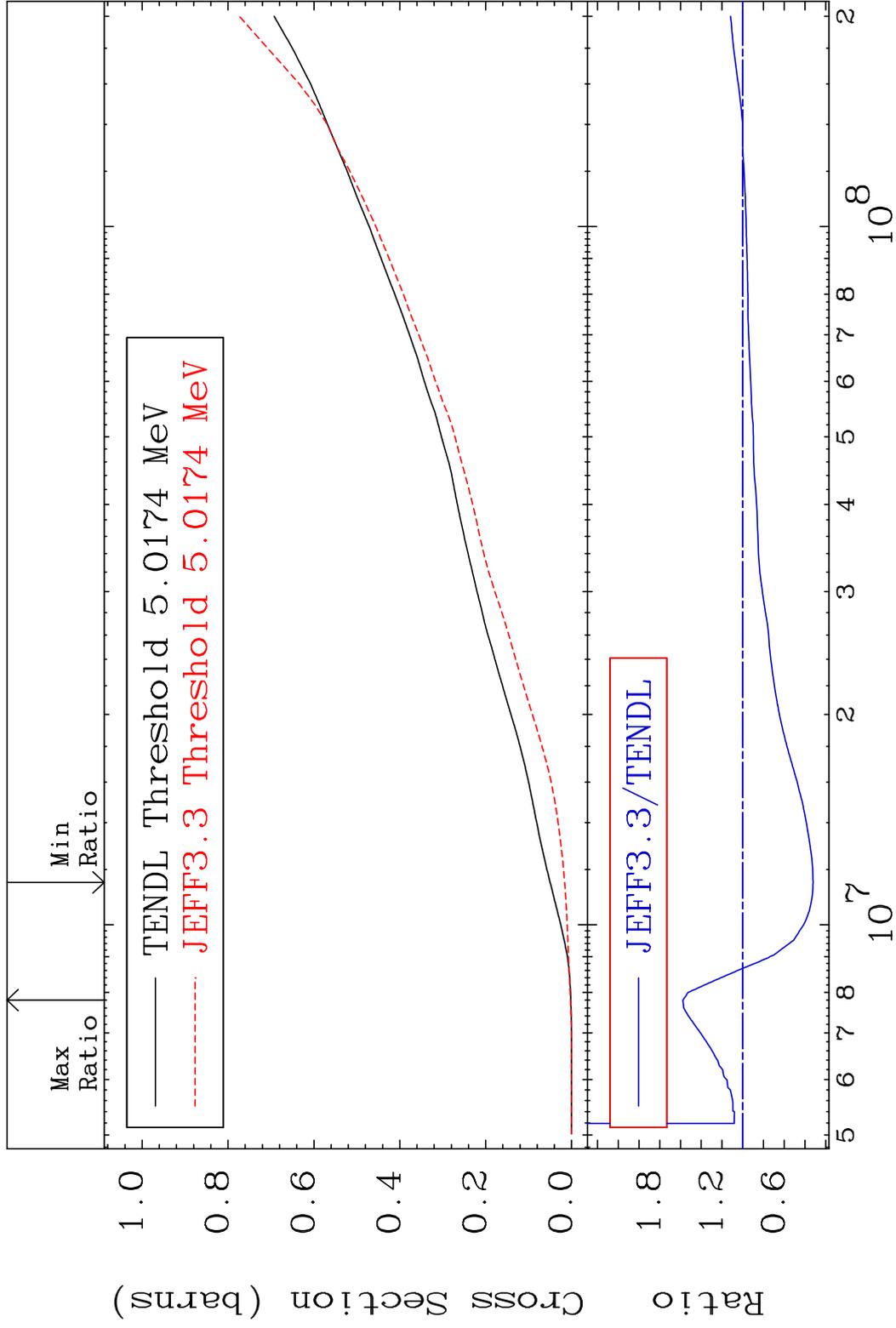


MAT 2037

Hydrogen Production

²⁰Ca-44

Cross Section -67.88 To 57.73 %

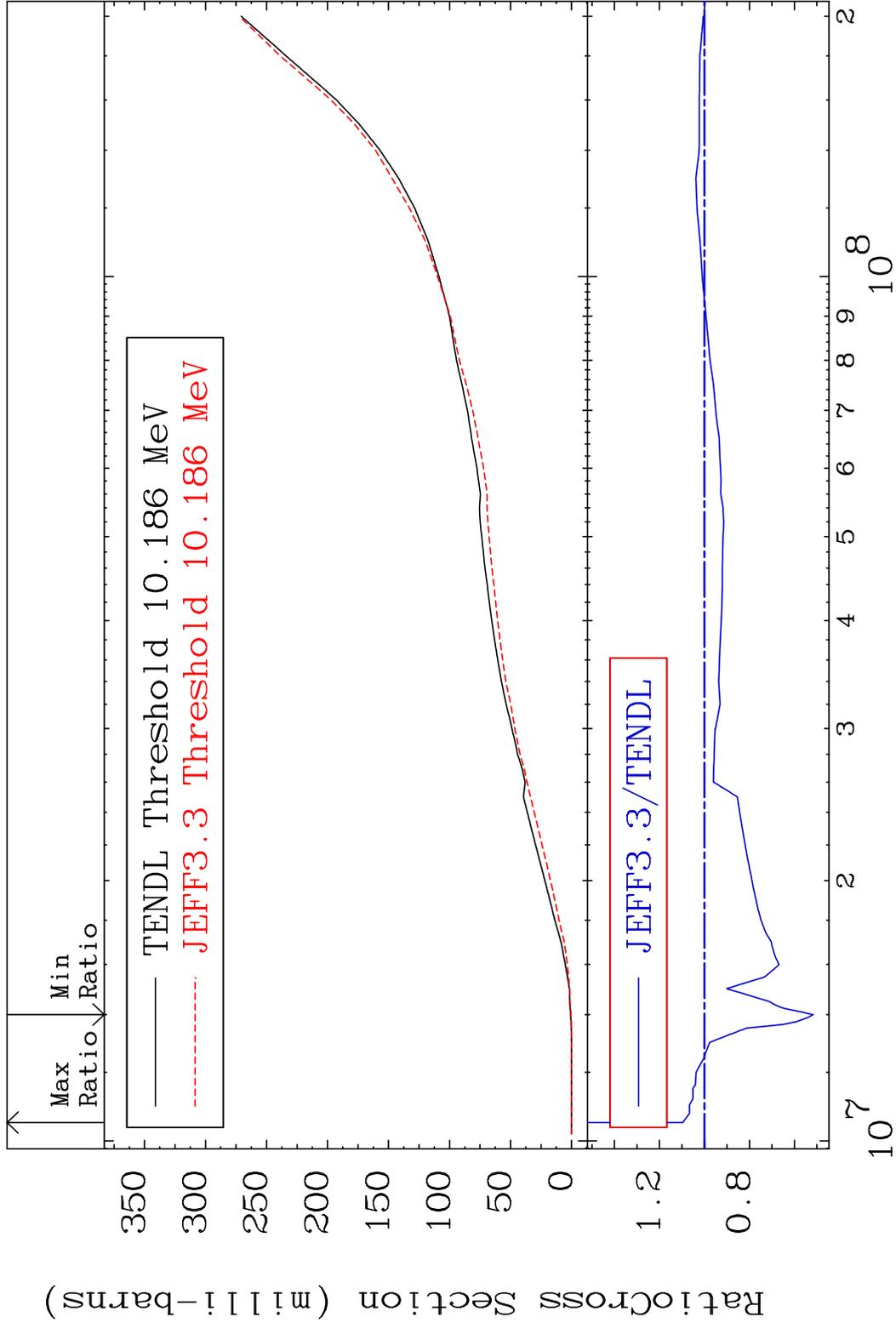


61

Incident Energy (eV)

²⁰Ca-44

MAT 2037 Deuterium Production 20-Ca-44
 Cross Section -48.33 To 9.612 %



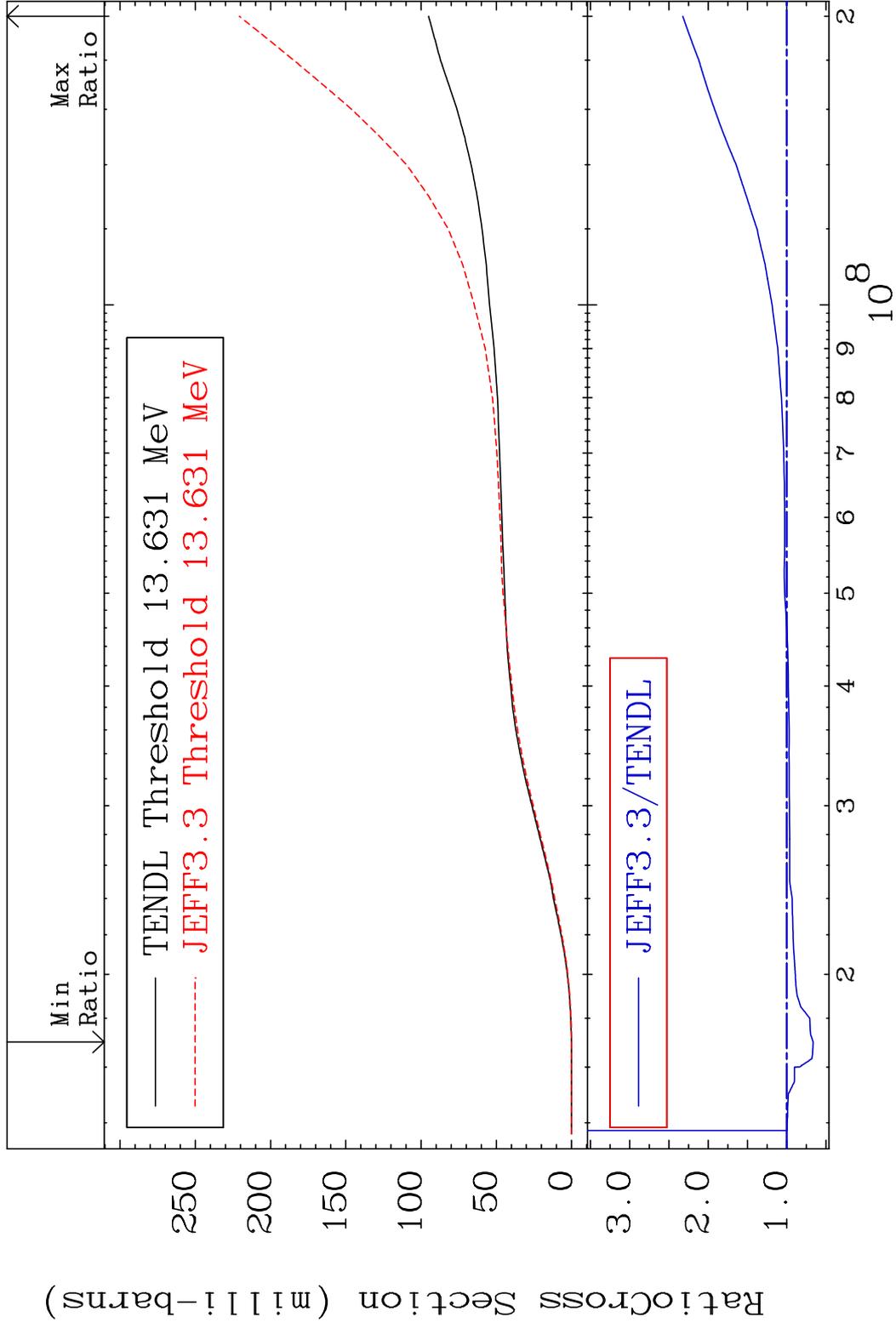
62 Incident Energy (eV) 20-Ca-44

MAT 2037

Tritium Production

20-Ca-44

Cross Section -33.65 To 132.4 %

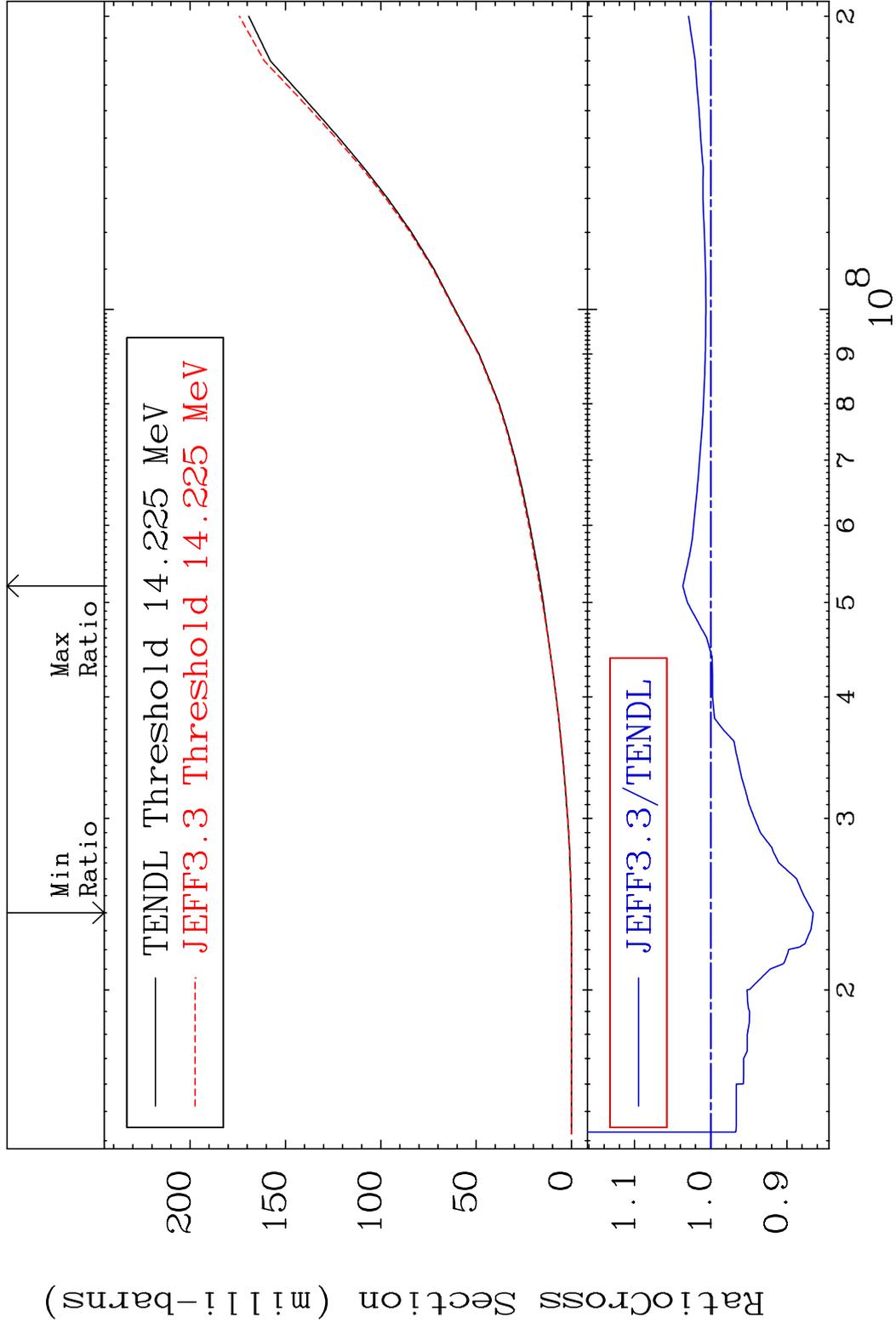


MAT 2037

He-3 Production

20-Ca-44

Cross Section -13.45 To 3.662 %

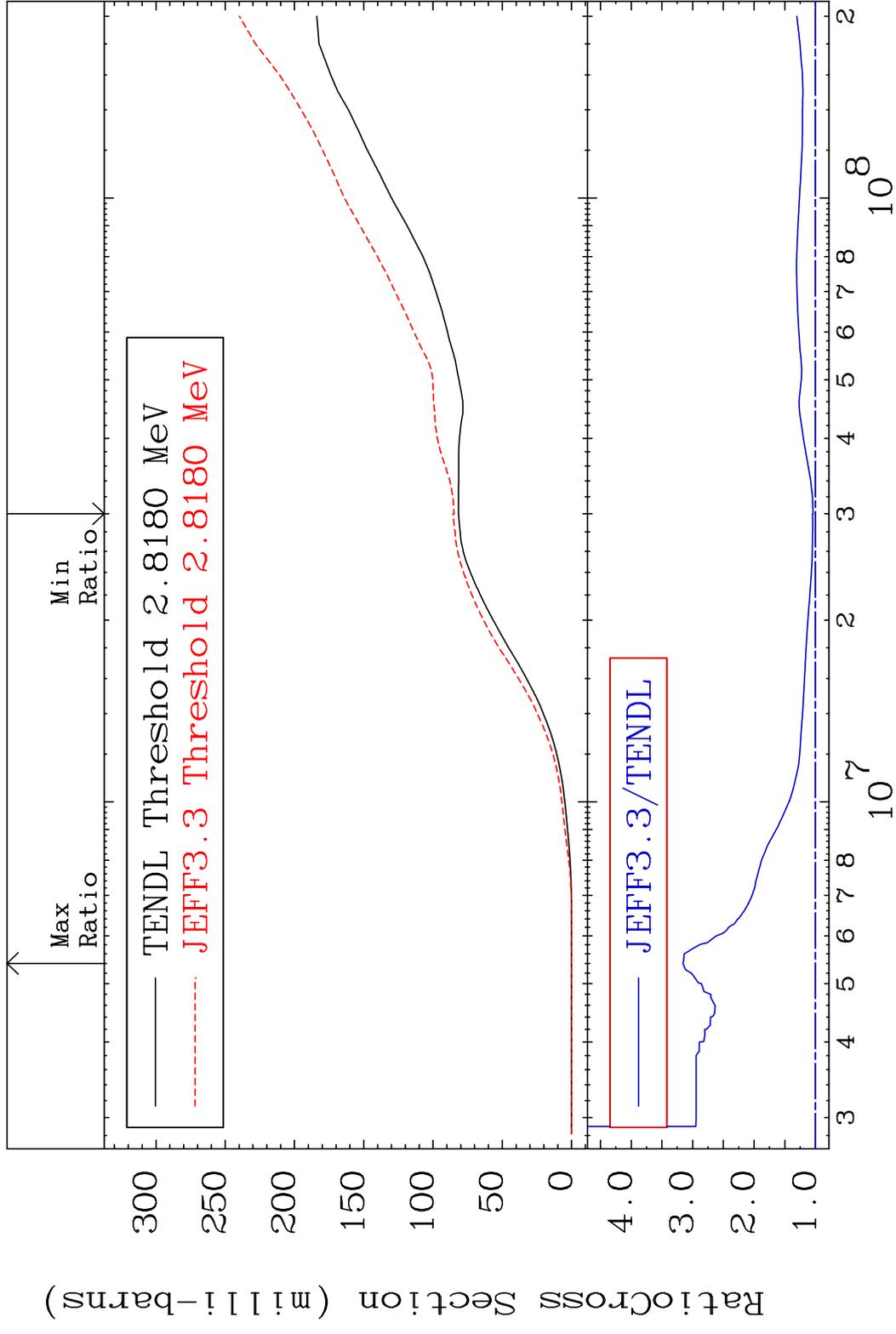


MAT 2037

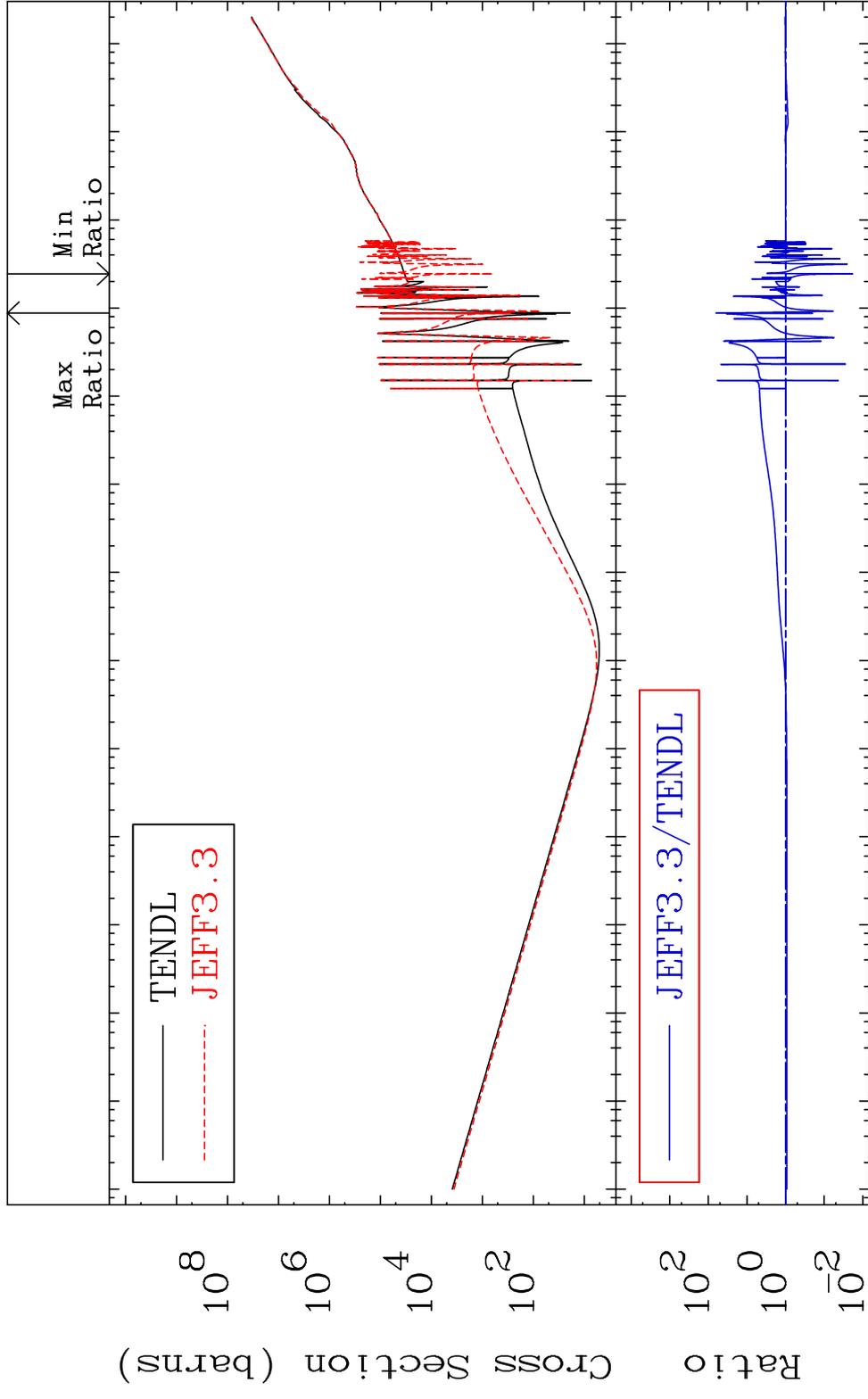
He-4 Production

20-Ca-44

Cross Section 3.841 To 215.9 %



MAT 2037 Kerma total (eV-barns) 20-Ca-44
 Cross Section -98.16 To 6287. %

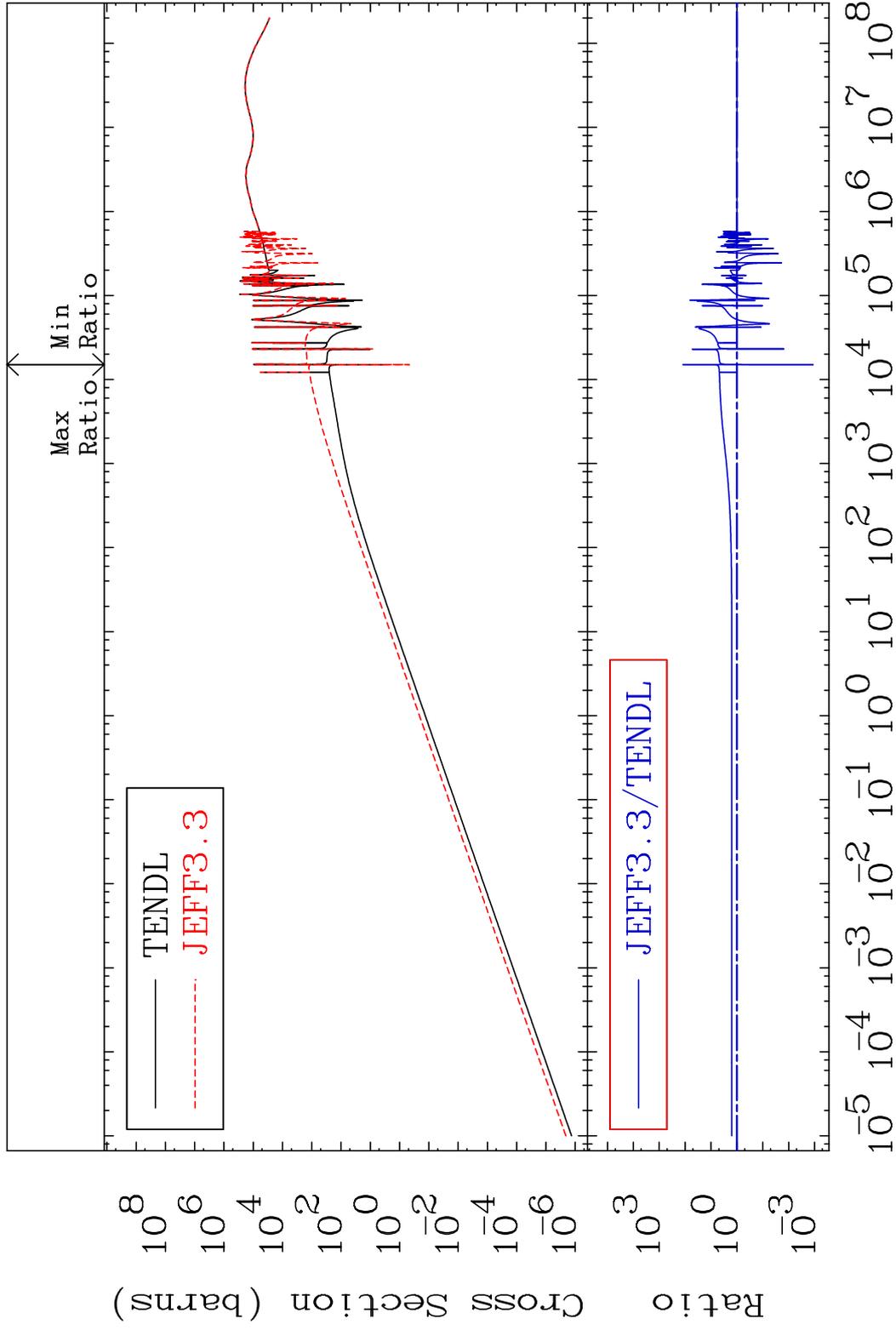


66 Incident Energy (eV) 20-Ca-44

MAT 2037

Kerma elastic
Cross Section

20-Ca-44
-99.89 To 9999. %

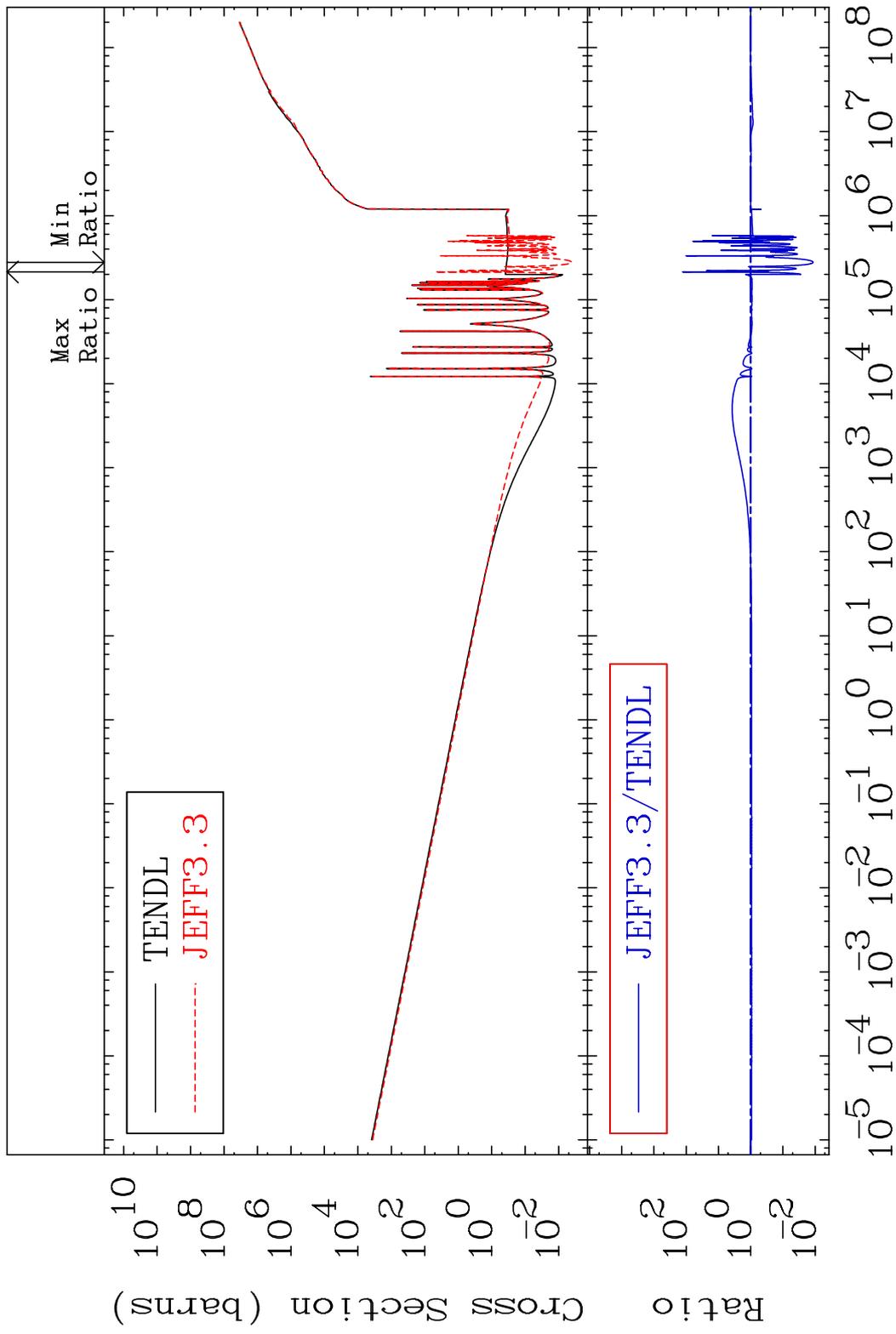


67

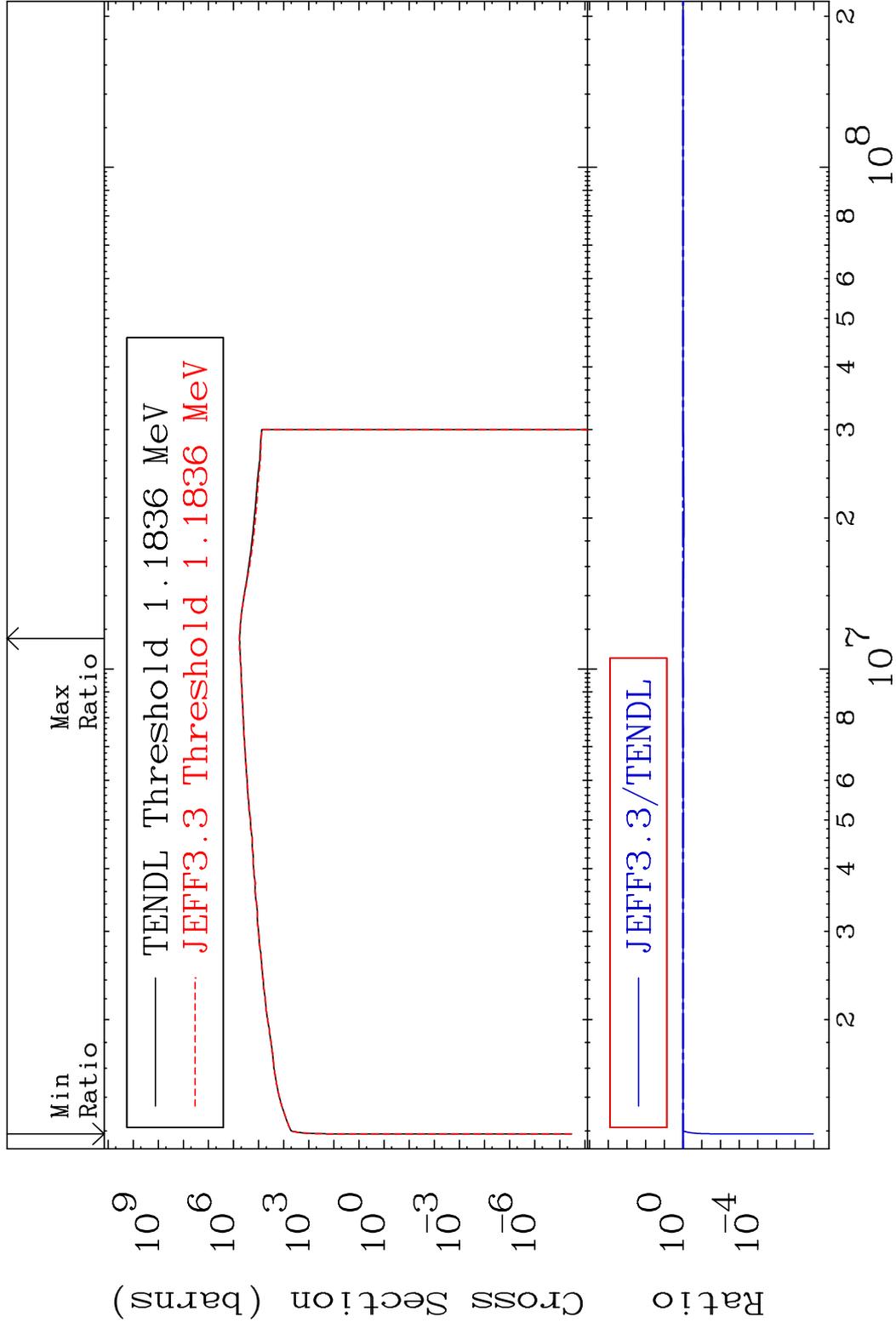
Incident Energy (eV)

20-Ca-44

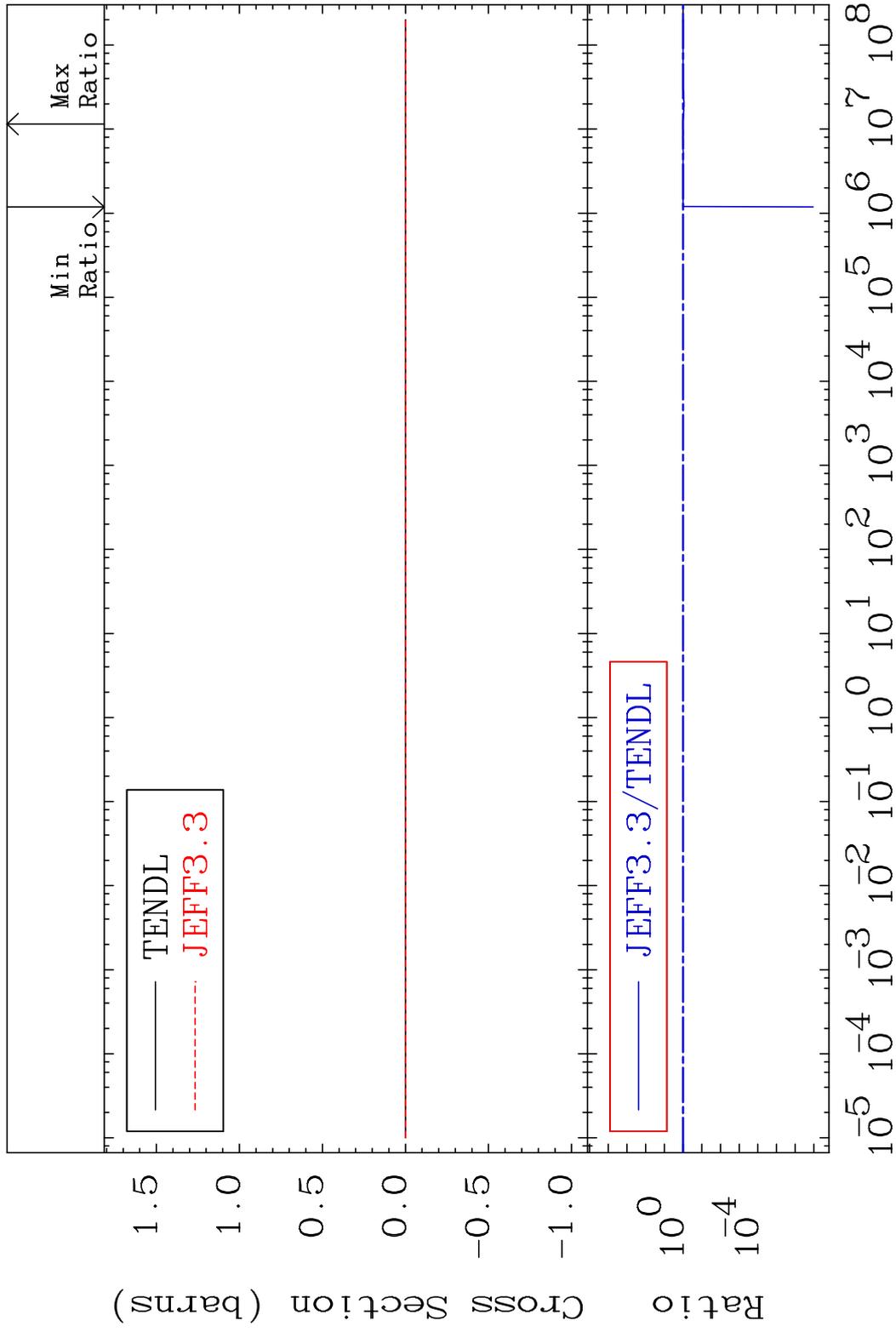
MAT 2037 Kerma non-elastic (all but mt2) 20-Ca-44
 Cross Section -98.84 To 9999. %



MAT 2037 Kerma inelastic (mt51-91) 20-Ca-44
 Cross Section -100.0 To 2.804 %



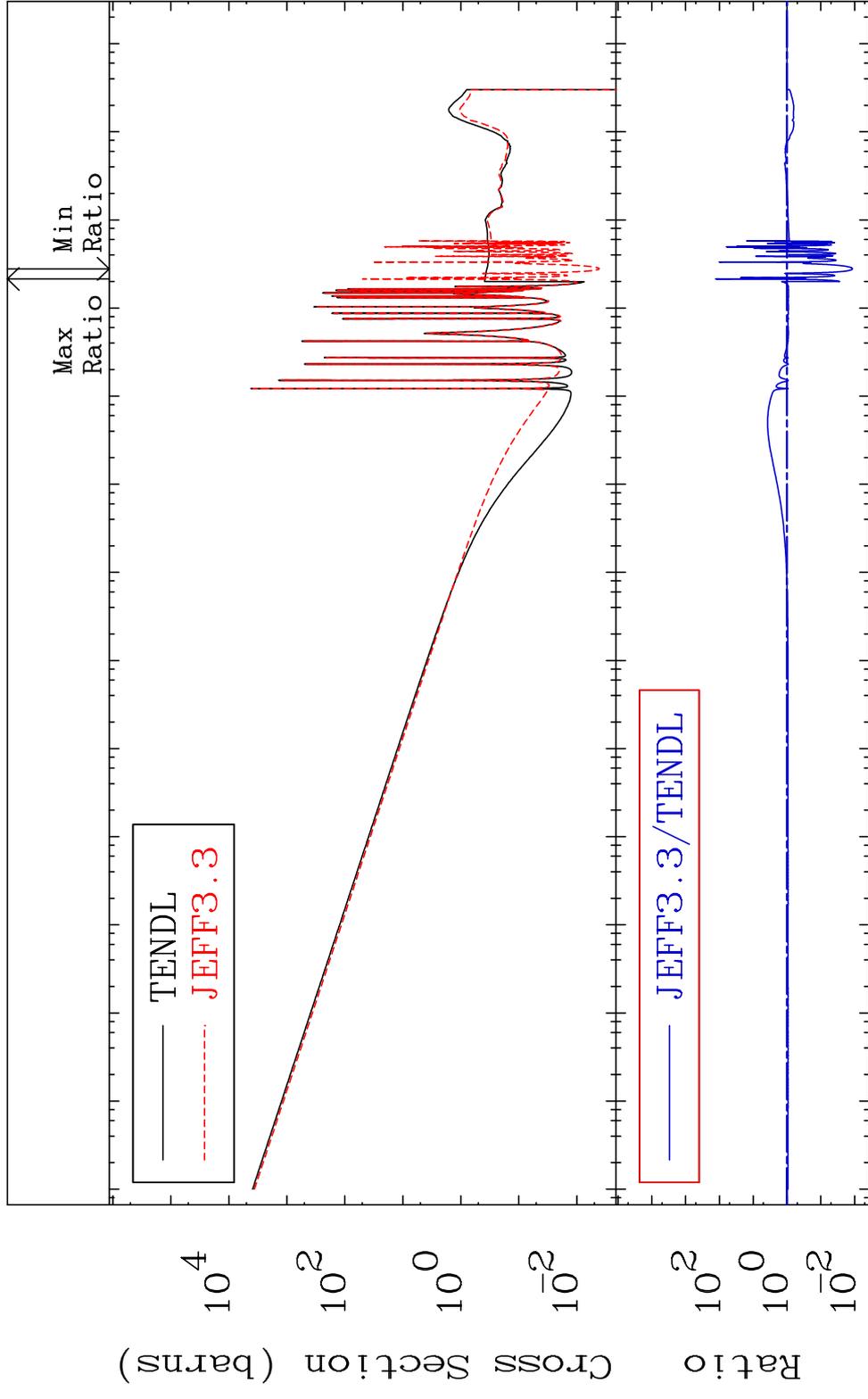
MAT 2037 Kerma fission (mt18 or mt19-20-21-38) 20-Ca-44
 Cross Section -100.0 To 2.804 %



70 Incident Energy (eV) 20-Ca-44

MAT 2037

Kerma capture (mt102) 20-Ca-44
Cross Section -98.84 To 9999. %



71

Incident Energy (eV)

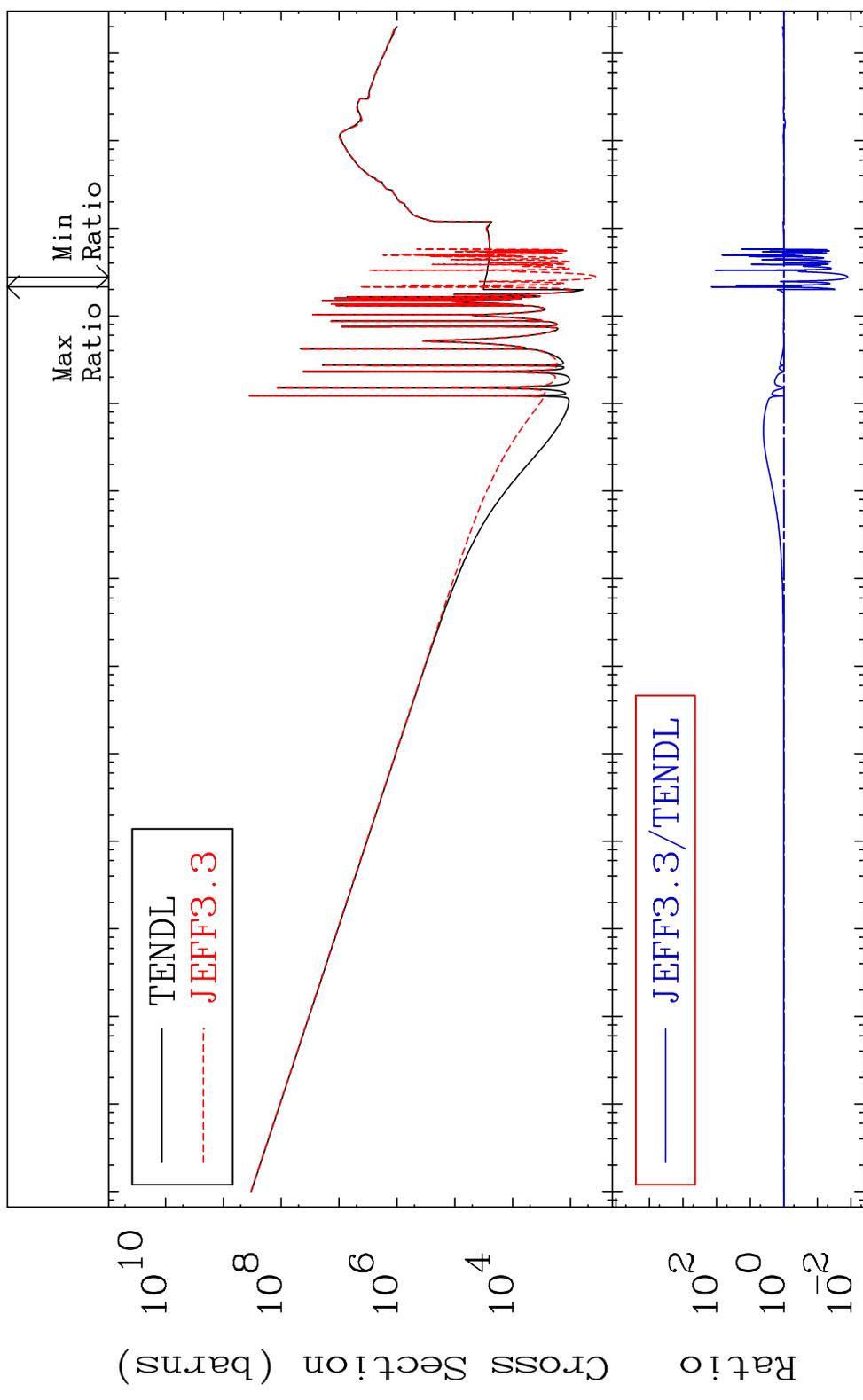
20-Ca-44

MAT 2037

Total photon (eV-barns)

20-Ca-44

Cross Section -98.73 To 9999. %

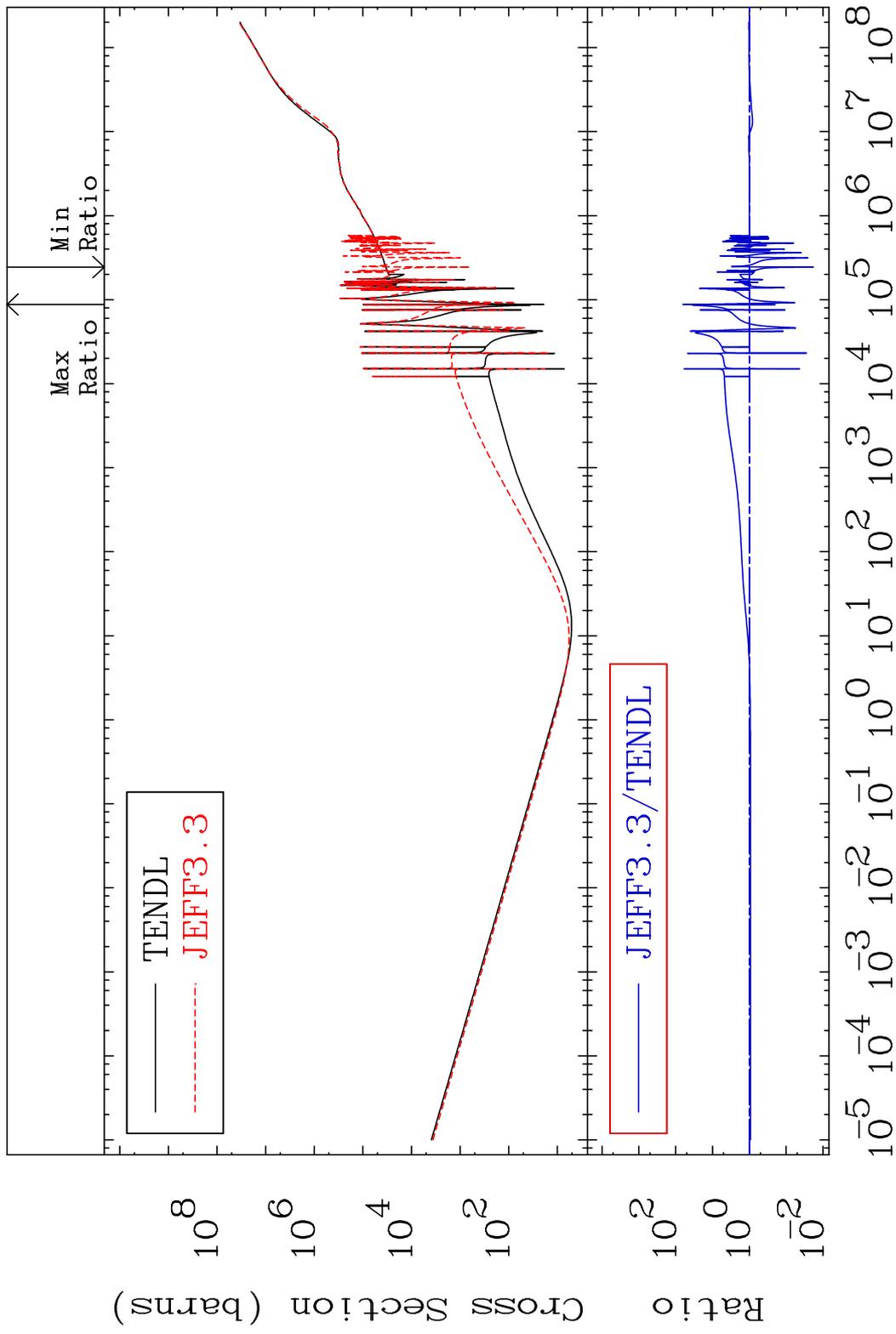


72

Incident Energy (eV)

20-Ca-44

MAT 2037 Total kinematic kerma (high limit) 20-Ca-44
 Cross Section -98.16 To 6287. %



73

Incident Energy (eV)

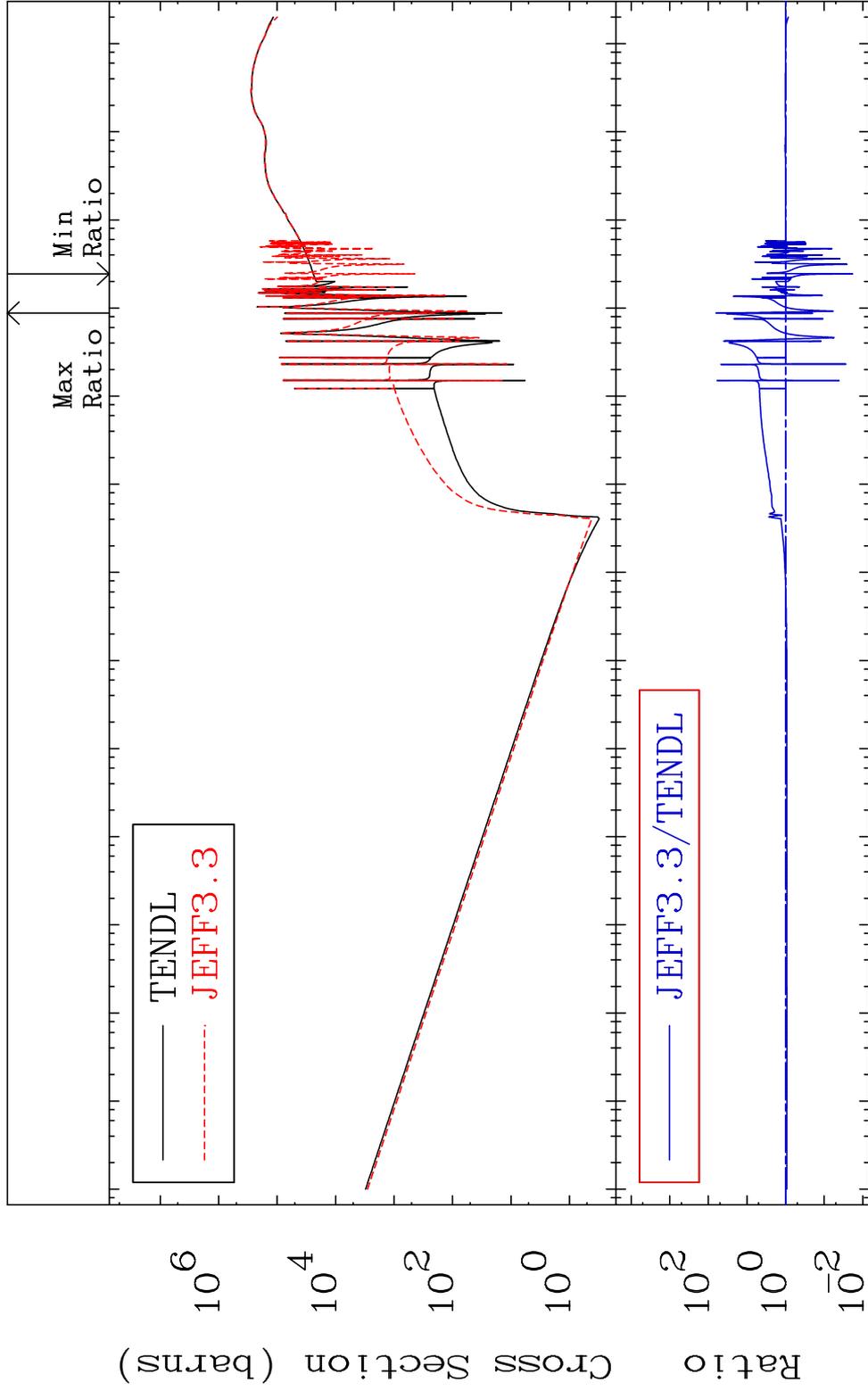
20-Ca-44

MAT 2037

Dpa total (eV-barns)

20-Ca-44

Cross Section -98.16 To 6286. %



74

Incident Energy (eV)

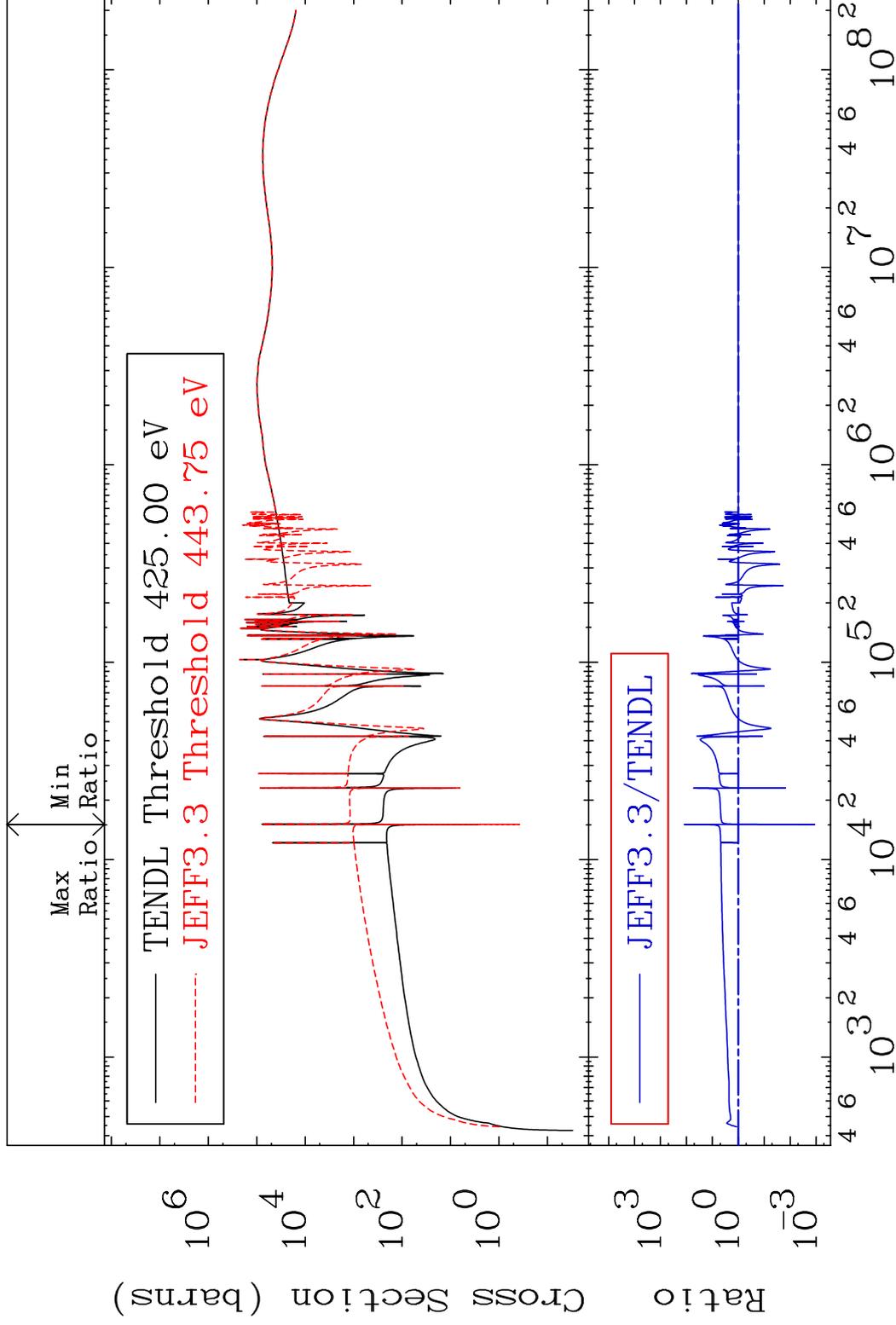
20-Ca-44

MAT 2037

Dpa elastic (mt2)

20-Ca-44

Cross Section -99.89 To 9999. %

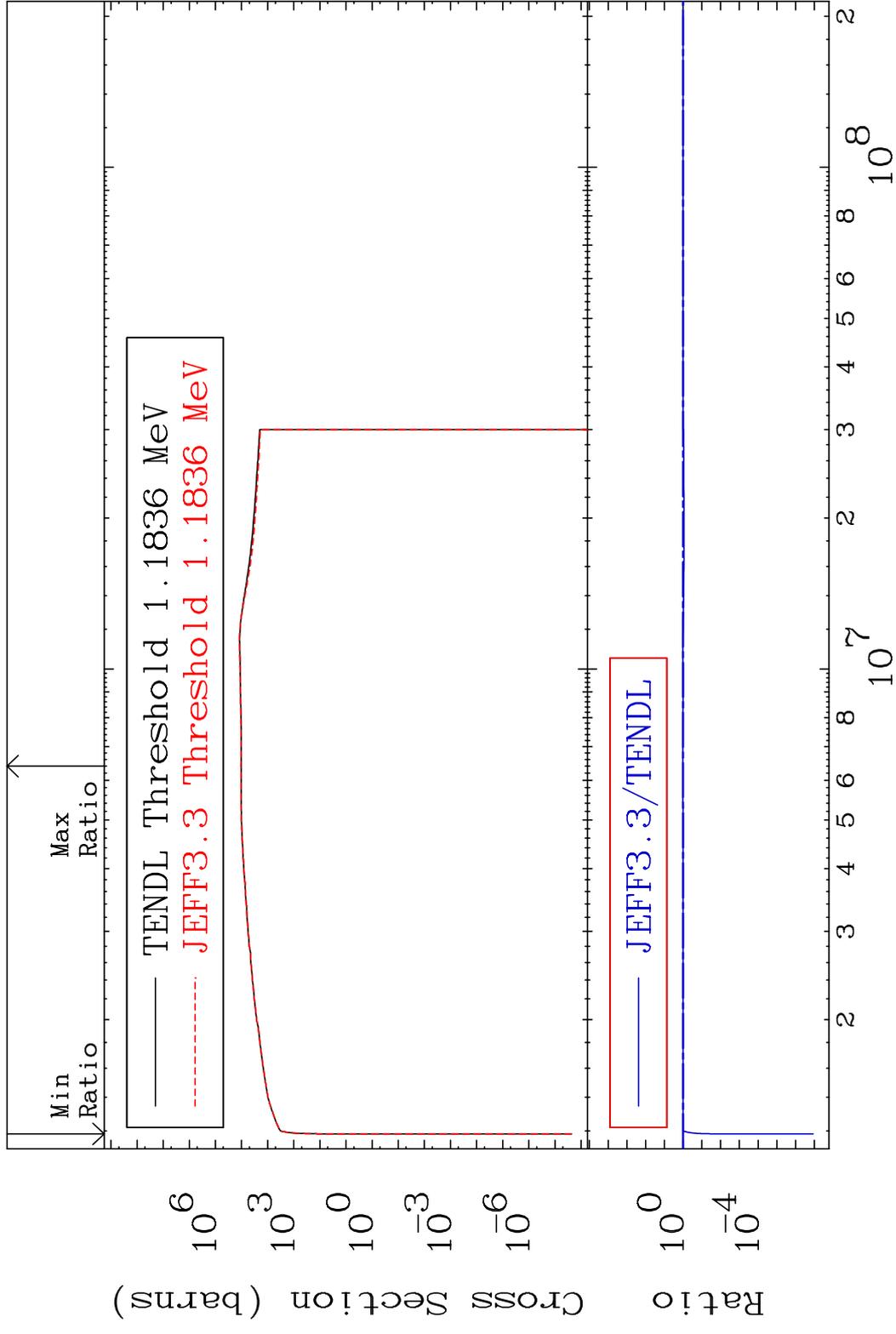


75

Incident Energy (eV)

20-Ca-44

MAT 2037 Dpa inelastic (mt51-91) 20-Ca-44
 Cross Section -100.0 To 3.369 %



MAT 2037 Dpa disappearance (mt102 -120) 20-Ca-44
 Cross Section -98.86 To 9999. %

