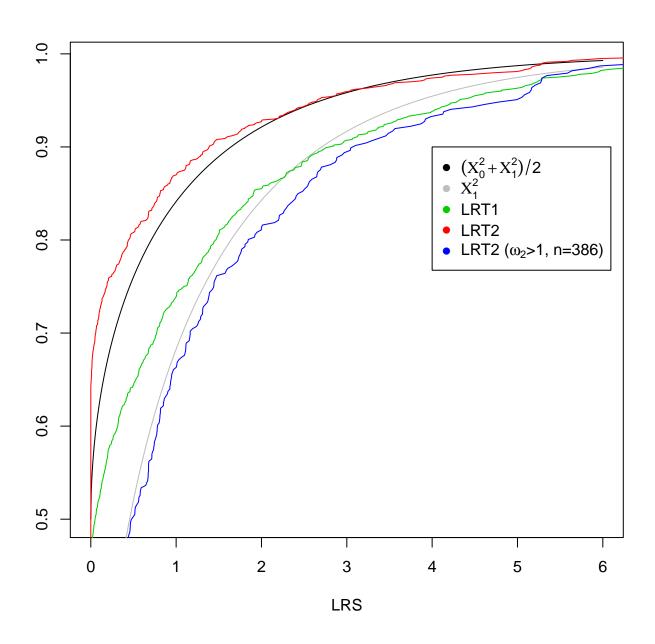
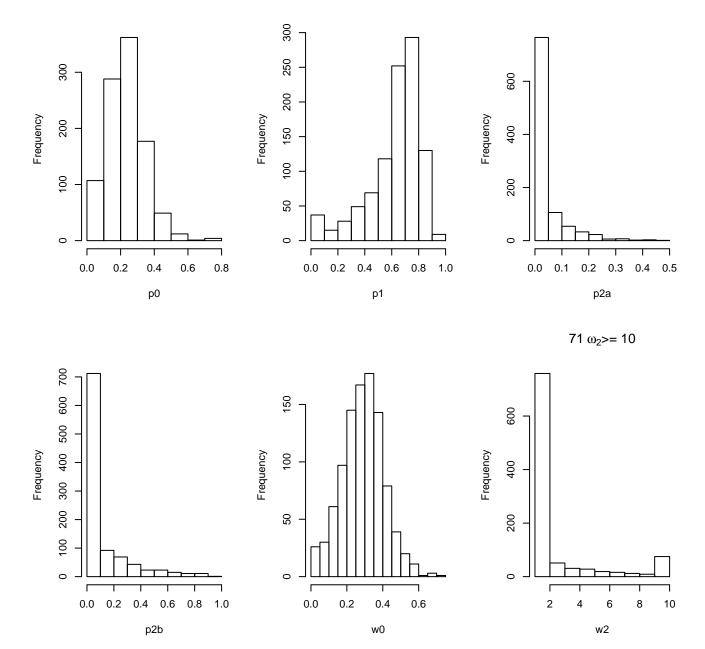
- Simulation under the null for branch-site model A
- \bullet 500 codons
- Symmetric, 8-taxon tree with one foreground branch The total tree length is 3. tree: (((A#1:0.214286,B:0.214286):0.214286,(C:0.214286,D:0.214286):0.214286):0.214286, ((E:0.214286,F:0.214286):0.214286,(G:0.214286,H:0.214286):0.214286):0.214286);
- $\kappa = 2.0 \ p_0 = 0.25 \ p_1 = 0.75 \ \omega_0 = 0.3$





```
> subset (params, w2>=10)
                                  p2b
                                              w0
                                                          w2
      p0
                р1
                         p2a
0.30188 \ 0.67760 \ 0.00632 \ 0.01420 \ 0.46859
                                                   10.62116
0.37278 \ 0.62306 \ 0.00156 \ 0.00260 \ 0.44714
                                                  999.00000
0.38821 \ \ 0.59210 \ \ 0.00780 \ \ 0.01190 \ \ 0.34194
                                                   16.60354
0.41563 \ 0.58058 \ 0.00158 \ 0.00221 \ 0.46488
                                                 236.76372
0.38393 \ 0.61041 \ 0.00219 \ 0.00348 \ 0.35656
                                                   20.29449
0.36738 \ 0.61907 \ 0.00504 \ 0.00850 \ 0.37513
                                                   21.58949
0.13047 \ \ 0.86586 \ \ 0.00048 \ \ 0.00319 \ \ 0.22469
                                                 219.01515
0.32454 \ 0.64823 \ 0.00908 \ 0.01814 \ 0.27204
                                                   13.01056
0.18594 \ 0.80811 \ 0.00111 \ 0.00484 \ 0.28810
                                                   78.65652
0.14672 \ \ 0.84390 \ \ 0.00139 \ \ 0.00799 \ \ 0.13070
                                                   11.49255
0.31513 \ 0.66886 \ 0.00513 \ 0.01088 \ 0.27741
                                                   30.29583
0.24096 \ 0.74203 \ 0.00417 \ 0.01284 \ 0.26435
                                                   23.57573
0.26834 \ 0.72205 \ 0.00260 \ 0.00701 \ 0.27391
                                                   13.83916
0.25406 \ \ 0.73507 \ \ 0.00279 \ \ 0.00808 \ \ 0.20973
                                                   20.50823
0.37375
         0.62153 \ 0.00177 \ 0.00295 \ 0.33532
                                                   61.58306
0.36541 \ 0.59700 \ 0.01427 \ 0.02331 \ 0.39585
                                                   14.15037
0.27526 \ 0.70584 \ 0.00530 \ 0.01360 \ 0.32472
                                                   10.77420
0.30846 \ \ 0.67768 \ \ 0.00433 \ \ 0.00952 \ \ 0.35905
                                                   56.08216
0.25306 \ 0.73607 \ 0.00278 \ 0.00809 \ 0.31422
                                                   37.55759
0.24633 \ 0.74584 \ 0.00194 \ 0.00588 \ 0.30052
                                                   25.85882
0.24333 \ 0.74774 \ 0.00219 \ 0.00674 \ 0.20232
                                                   33.82114
         0.63044 \ 0.00934 \ 0.01717 \ 0.31715
0.34305
                                                   10.23738
0.28058 \ \ 0.68818 \ \ 0.00905 \ \ 0.02219 \ \ 0.35514
                                                   11.46421
0.22017 \ 0.75562 \ 0.00546 \ 0.01875 \ 0.23744
                                                   18.16154
0.28770 \ 0.70126 \ 0.00321 \ 0.00783 \ 0.38601
                                                   12.27975
0.25386 \ 0.71679 \ 0.00768 \ 0.02167
                                       0.27836
                                                   18.31089
0.20782 \ 0.76447 \ 0.00592 \ 0.02178 \ 0.27185
                                                   13.15104
0.14241 \ 0.85525 \ 0.00033 \ 0.00201 \ 0.37414
                                                   70.86753
0.44006 \ 0.55136 \ 0.00381 \ 0.00477
                                       0.48435
                                                   21.31864
0.28494 \ 0.68491 \ 0.00886 \ 0.02129 \ 0.31633
                                                   10.65598
0.11588 \ \ 0.88114 \ \ 0.00035 \ \ 0.00264 \ \ 0.11360
                                                   75.97987
0.27684 \ 0.68236 \ 0.01178 \ 0.02902 \ 0.30070
                                                   12.92072
0.21162 \ 0.78253 \ 0.00124 \ 0.00460 \ 0.22388
                                                   18.46036
0.19693 \ \ 0.79436 \ \ 0.00173 \ \ 0.00698 \ \ 0.35078
                                                 192.63631
0.40212 \ \ 0.59341 \ \ 0.00181 \ \ 0.00267 \ \ 0.47176
                                                 154.04901
0.31422 \ 0.66222 \ 0.00758 \ 0.01597 \ 0.30030
                                                   10.71660
0.34923 \ 0.61038 \ 0.01470 \ 0.02569 \ 0.34761
                                                   12.07670
0.16065 \ \ 0.83698 \ \ 0.00038 \ \ 0.00199 \ \ 0.16903
                                                 451.23035
         0.75424 \ 0.00212 \ 0.00676 \ 0.26141
0.23688
                                                  825.53471
0.21306 \ 0.77496 \ 0.00258 \ 0.00940 \ 0.28159
                                                   34.40875
         0.86511 \ 0.00344 \ 0.02907 \ 0.00826
0.10238
                                                   12.12208
0.24895 \ \ 0.73858 \ \ 0.00314 \ \ 0.00932 \ \ 0.36574
                                                   10.75480
0.38911 \ 0.60782 \ 0.00120 \ 0.00187 \ 0.35189
                                                  998.99984
0.27666 \ 0.71906 \ 0.00119 \ 0.00309 \ 0.25530
                                                   72.81209
0.11242 \ 0.87843 \ 0.00104 \ 0.00811
                                       0.15136
                                                   28.43205
0.49737 \ 0.49656 \ 0.00304 \ 0.00303 \ 0.47392 \ 163.36893
         0.71455 \ 0.00133 \ 0.00339
0.28073
                                       0.32784
                                                   18.68247
0.47414 \ 0.48277 \ 0.02135 \ 0.02174 \ 0.40810
                                                   10.92064
```

0.17703	0.81366	0.00166	0.00765	0.19901	85.29903
0.14842	0.83514	0.00248	0.01396	0.20457	11.58724
0.33897	0.65709	0.00134	0.00260	0.49515	201.78540
0.20803	0.78479	0.00151	0.00568	0.23370	281.35902
0.40562	0.57721	0.00709	0.01009	0.34503	12.19623
0.27465	0.72535	0.00000	0.00000	0.24939	12.16055
0.26627	0.70962	0.00658	0.01753	0.32286	11.34912
0.29264	0.68938	0.00536	0.01262	0.29295	21.76654
0.22659	0.75241	0.00486	0.01614	0.23891	16.08245
0.28095	0.70422	0.00423	0.01060	0.29899	998.99954
0.32114	0.65382	0.00825	0.01680	0.29870	10.85800
0.31289	0.68315	0.00124	0.00272	0.38380	999.00000
0.29391	0.68983	0.00486	0.01141	0.35738	11.68232
0.18194	0.80759	0.00193	0.00855	0.21818	999.00000
0.17003	0.81626	0.00236	0.01135	0.17543	21.76413
0.17959	0.80666	0.00251	0.01125	0.31701	63.57962
0.70148	0.29107	0.00527	0.00219	0.65788	73.63285
0.23047	0.73004	0.00948	0.03001	0.19761	10.22197
0.40316	0.58799	0.00360	0.00525	0.52798	11.98952
0.34624	0.62330	0.01088	0.01958	0.40512	11.65468
0.27624	0.71848	0.00147	0.00381	0.32517	998.99995
0.27403	0.70663	0.00540	0.01393	0.25074	15.19904
0.23363	0.76099	0.00126	0.00411	0.43845	48.96210