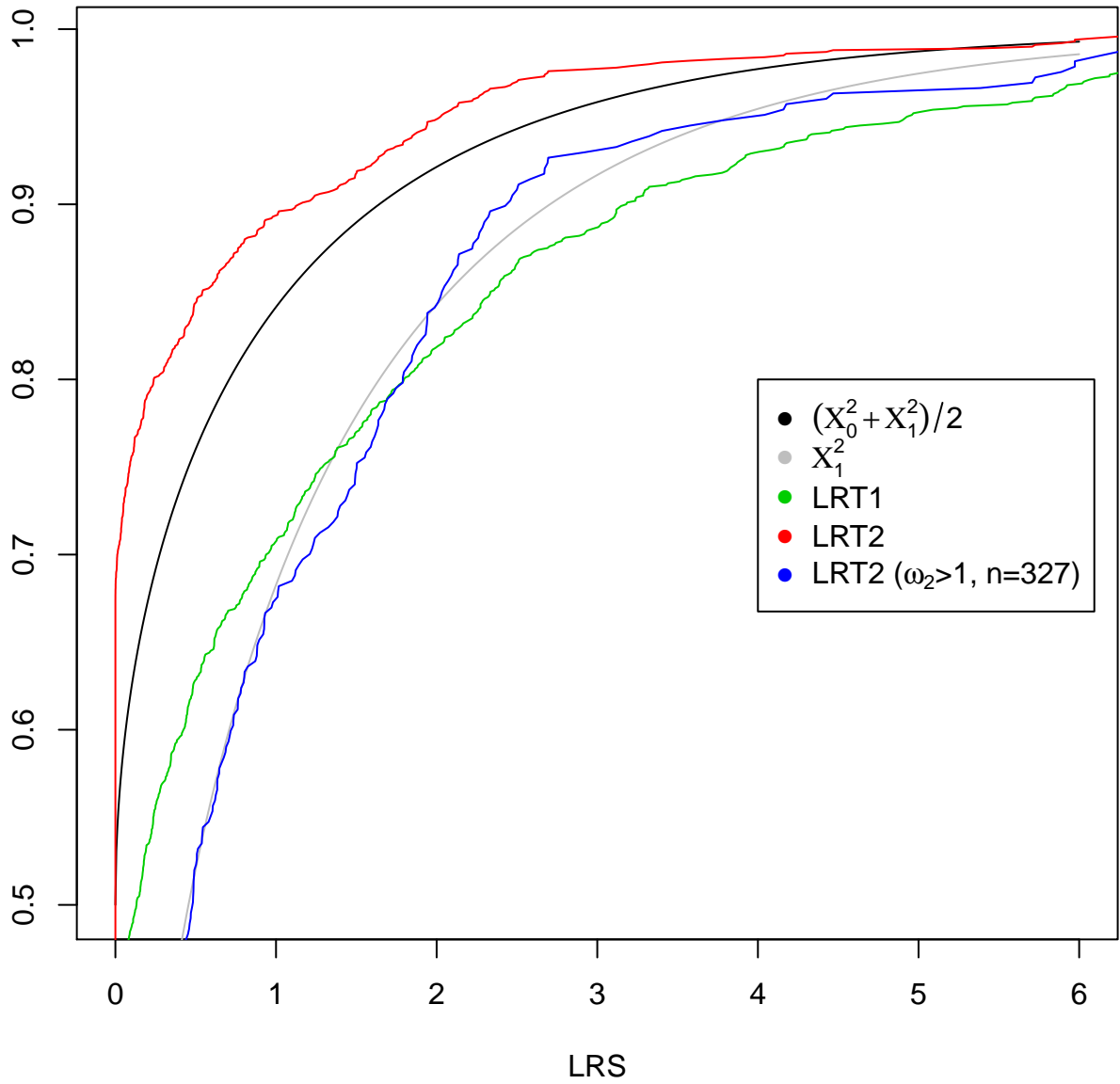
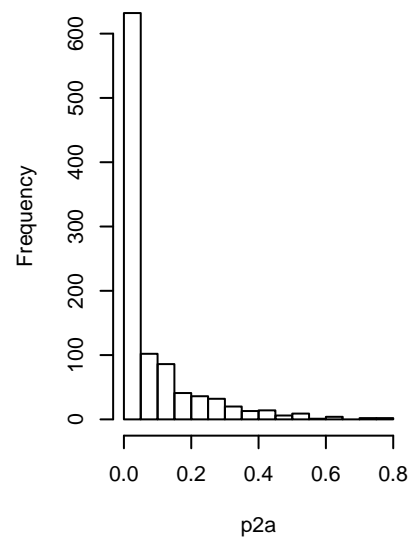
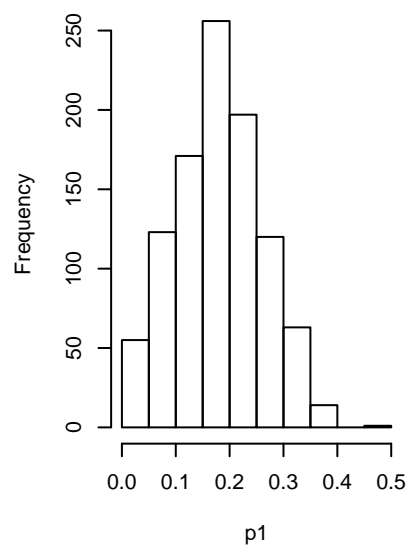
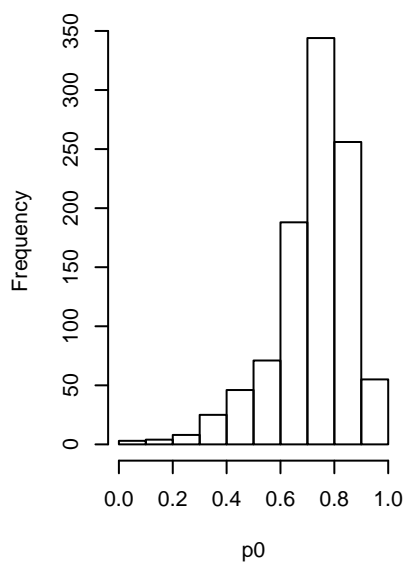


- Simulation under the null for branch-site model A
- 500 codons
- Symmetric, 4-taxon tree with one foreground branch The total tree length is 3.  
tree: ((A#1:0.5,B:0.5):0.5,(C:0.5,D:0.5):0.5);
- $\kappa = 2.0$   $p_0 = 0.75$   $p_{1/2b} = 0.2105263$   $\omega_0 = 0.40$

## LR CDFs



# MLEs under Alternative



48  $\omega_2 \geq 10$

