

Götz Kersting

Beta-coalescent trees

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The asymptotic distribution of the length of

We derive the asymptotic distribution of the total length \$L_n\$ of a \$\operatorname {Beta}{2-

 $\lambda = 1^{1} \$

index \$\alpha\$. Otherwise \$L_n\$ just has to be shifted by a constant (depending on \$n\$) to get

convergence to a nondegenerate limit distribution. As a consequence, we obtain the limit distribution of the number S_n of segregation sites. These are points (mutations), which are placed on the

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tree's branches according to a Poisson point process with constant rate.

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