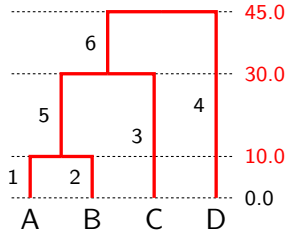
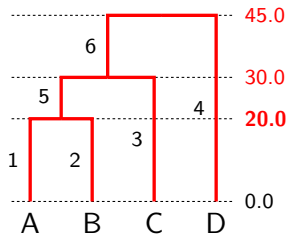


$$= \begin{pmatrix} 0.015 \\ 0.01 \\ 0.005 \\ 0.01 \\ 0.01 \\ 0.005 \end{pmatrix} \star$$



$$= \begin{pmatrix} 0.0075 \\ 0.005 \\ 0.005 \\ 0.01 \\ 0.02 \\ 0.005 \end{pmatrix} \star$$



“substitution tree”

evolutionary rates
substitutions / site / unit
time

time tree