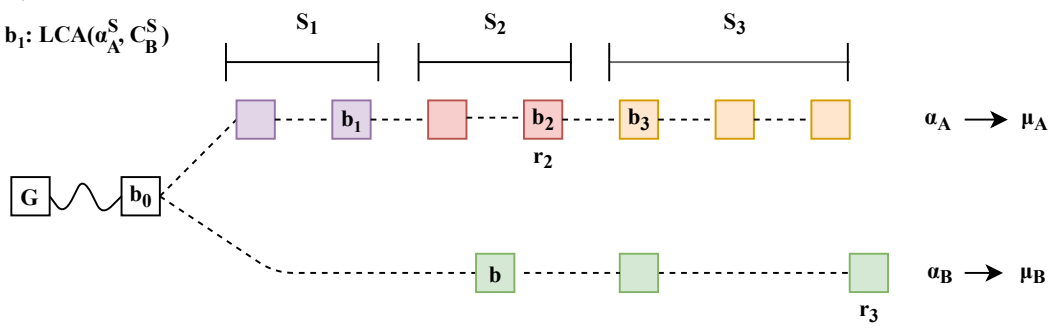
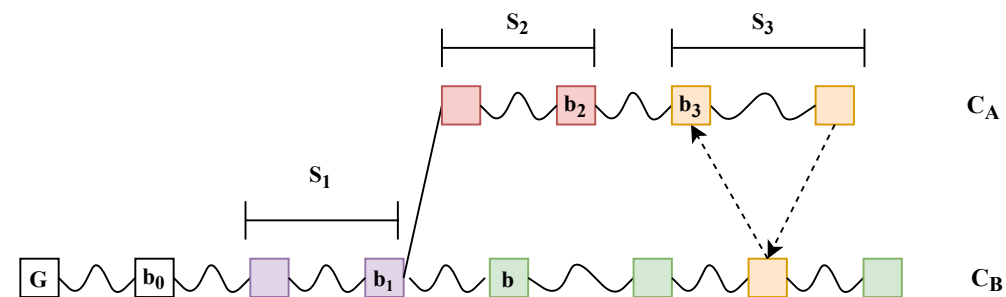


b_0 : $\text{LCA}(\pi_A, \pi_B)$

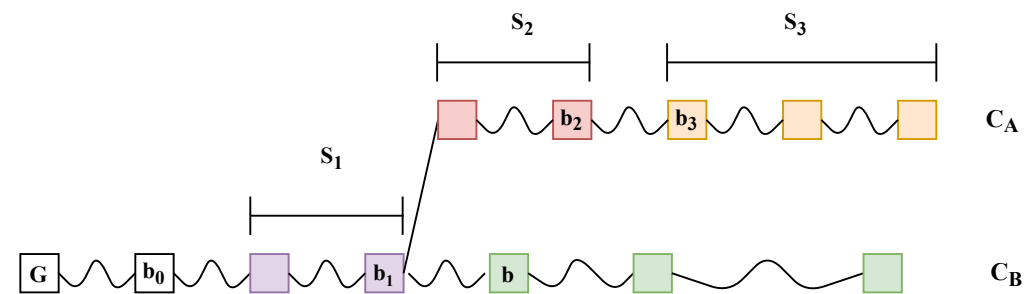
b_1 : $\text{LCA}(a_A^S, c_B^S)$



I.



II.



III.