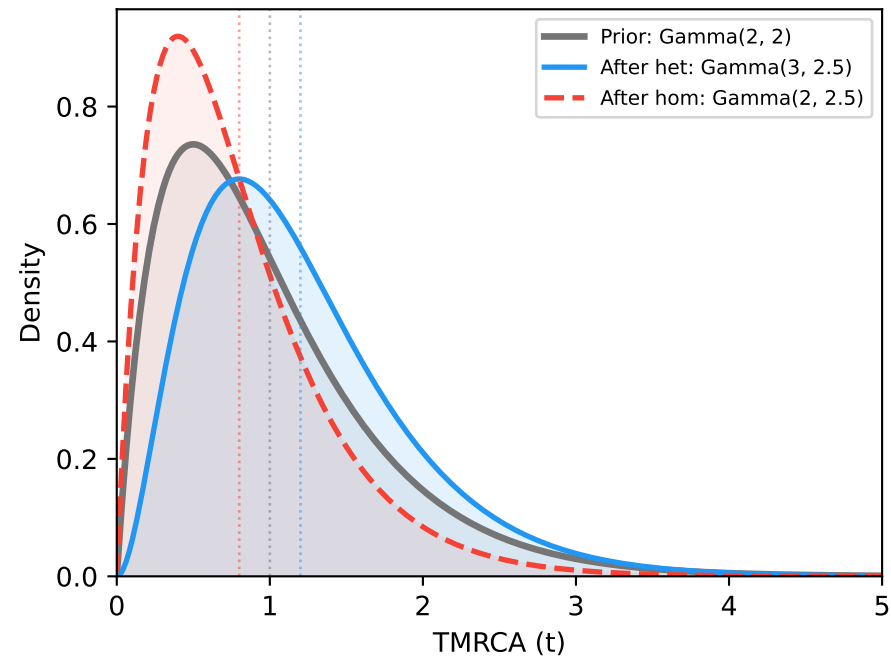
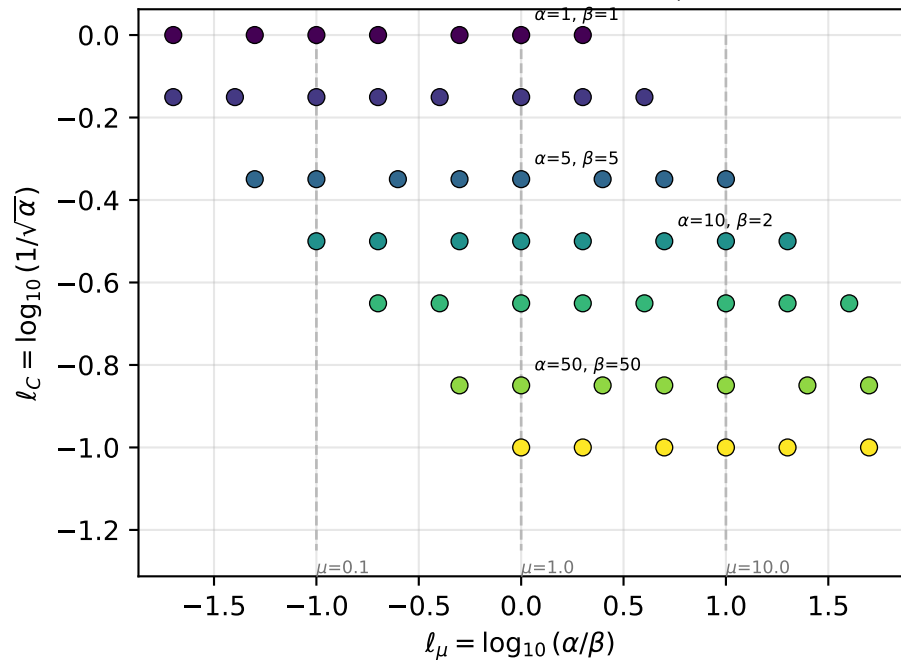


# Gamma-SMC: Continuous-State HMM for TMRCA Inference

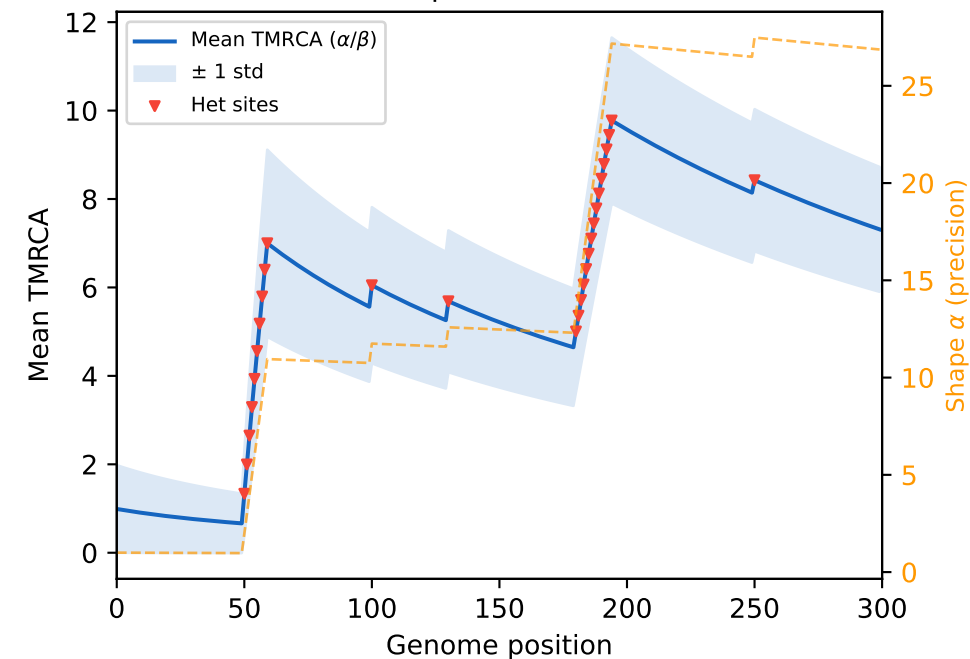
A. Emission update ( $\theta=0.5$ )



B. Log-coordinate space ( $\ell_\mu, \ell_C$ )



C. Forward pass belief evolution



D. Entropy clipping ( $H_{\max}=1.0$ )

