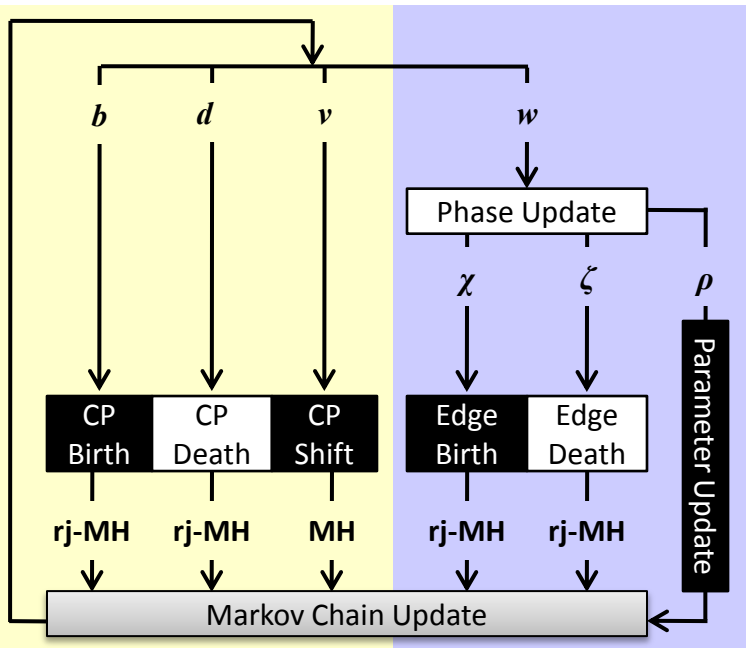


A



B

ARTIVA algorithm

1. Initialization: set $(k^i, \xi^i, s^i, \text{Pa}^i, \theta^i)$
 2. Iteration l :
 Sample $u \sim \mathcal{U}_{[0,1]}$.
if $(u \leq b_k)$ **then**
 └ consider changepoint birth
else if $(u \leq b_k + d_k)$ **then**
 └ consider changepoint death
else if $(u \leq b_k + d_k + v_k)$ **then**
 └ consider changepoint position shift
else consider Regression model change within phases
 3. $l \leftarrow l + 1$ and go to 2.
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