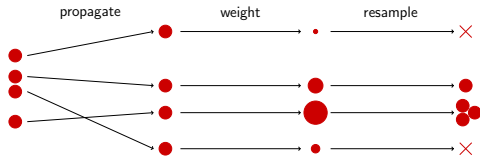## Sequential Monte Carlo
Simulate a particle system by iterating these steps

Resampling induces a genealogy
We want to characterise the genealogies (in the limit as number of particles $N \to \infty$)

Kingman's coalescent

Viewed backwards in time, genealogy becomes a coalescent

Results

- foo