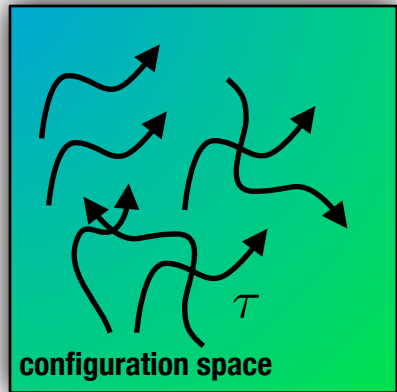
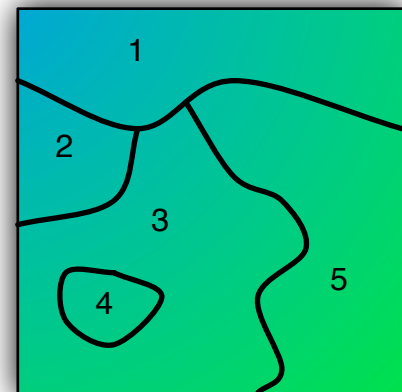


parallel simulations



state decomposition



adaptive simulations



**stochastic model
construction**

$\mathbf{T}(\tau)$ transfer operator

$\phi_i(\mathbf{x})$ Galerkin basis

$\hat{\psi}_i(\mathbf{x})$ relaxation processes

t_i relaxation timescales

properties

→ **mechanism**

→ **spectroscopy**

→ **populations**

→ **errors**

iterative model improvement