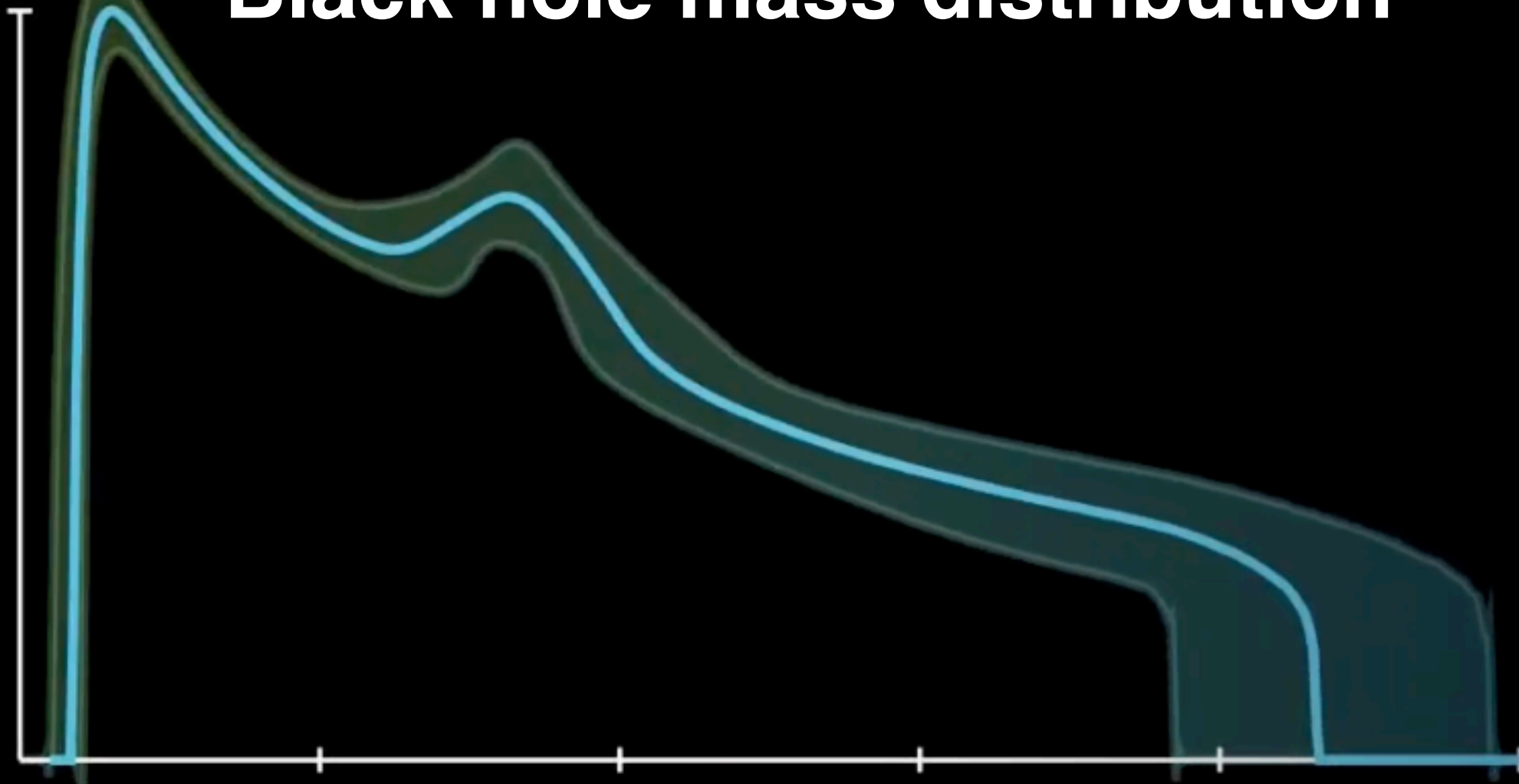


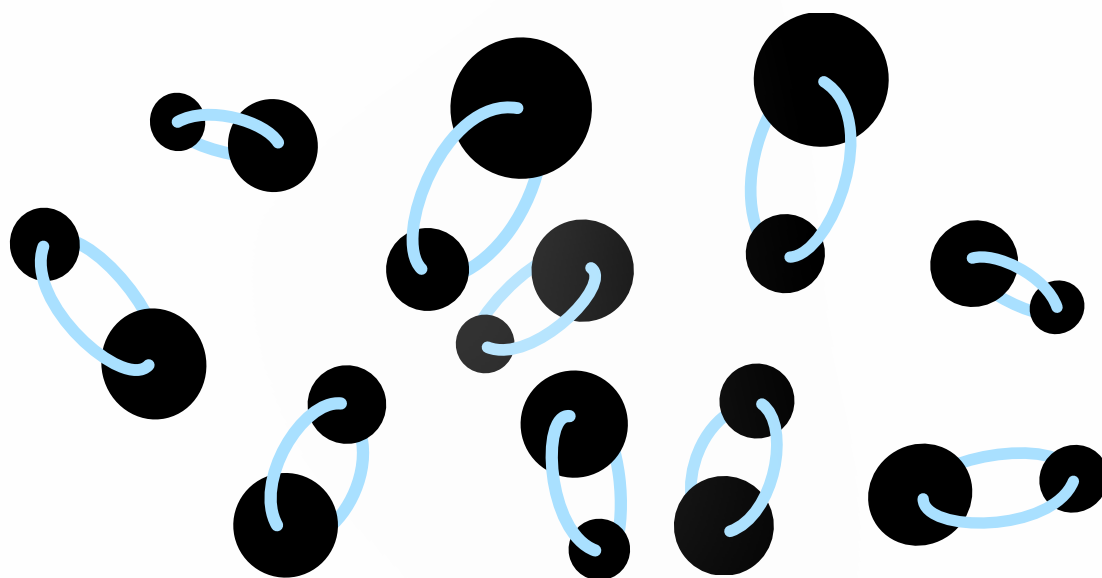


Black hole mass distribution

$p(\text{mass})$

mass

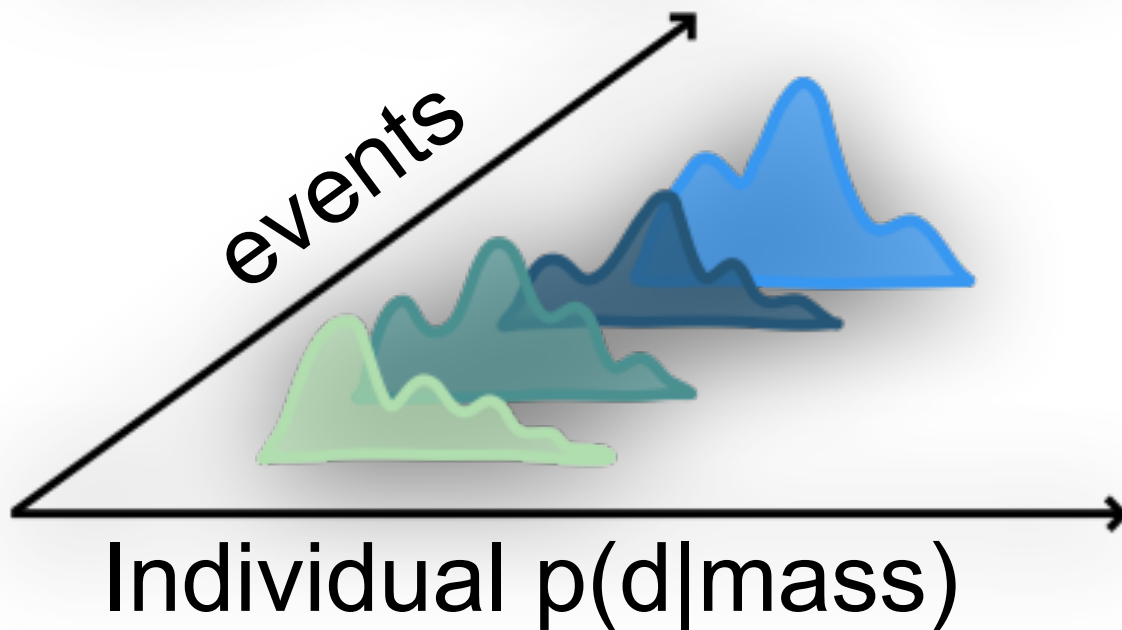




Observations

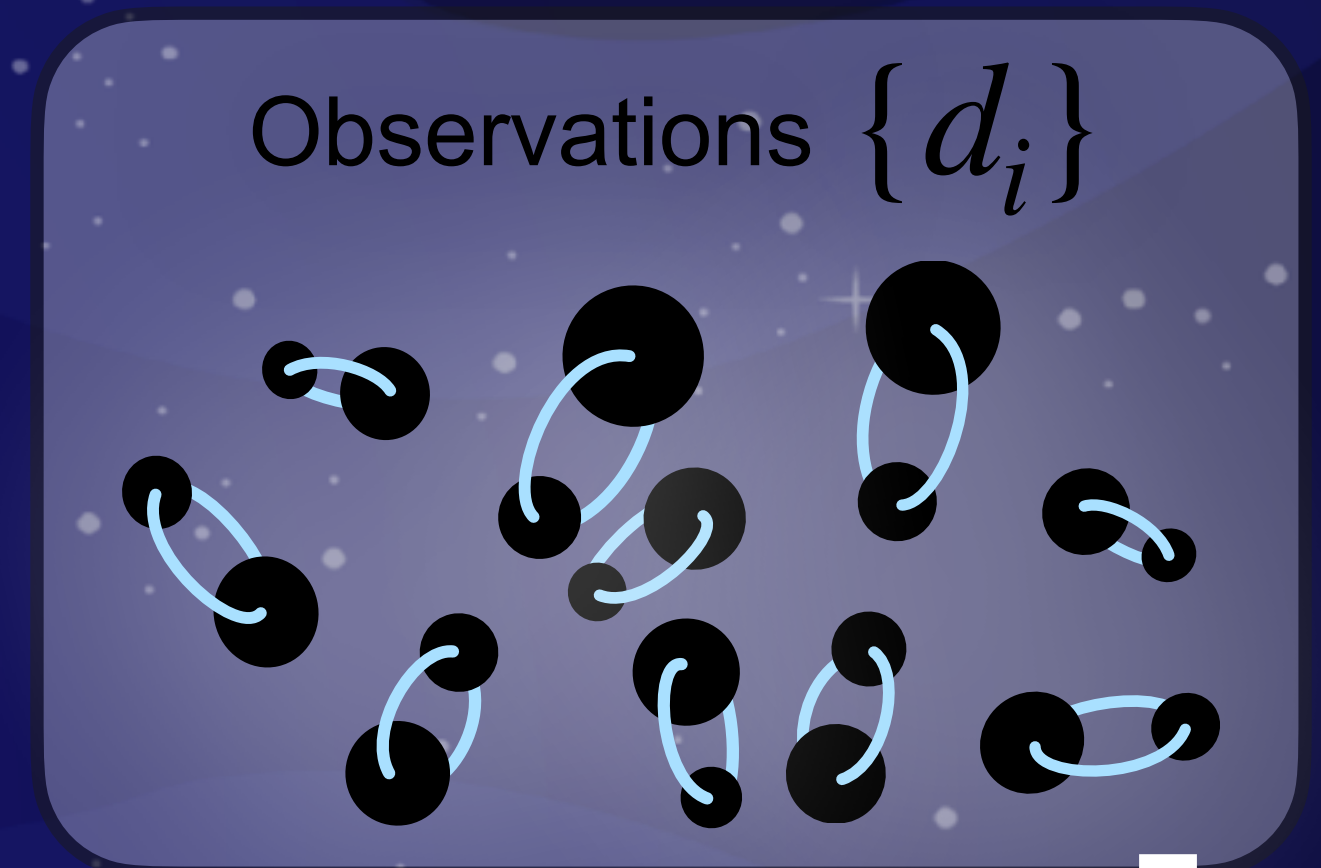
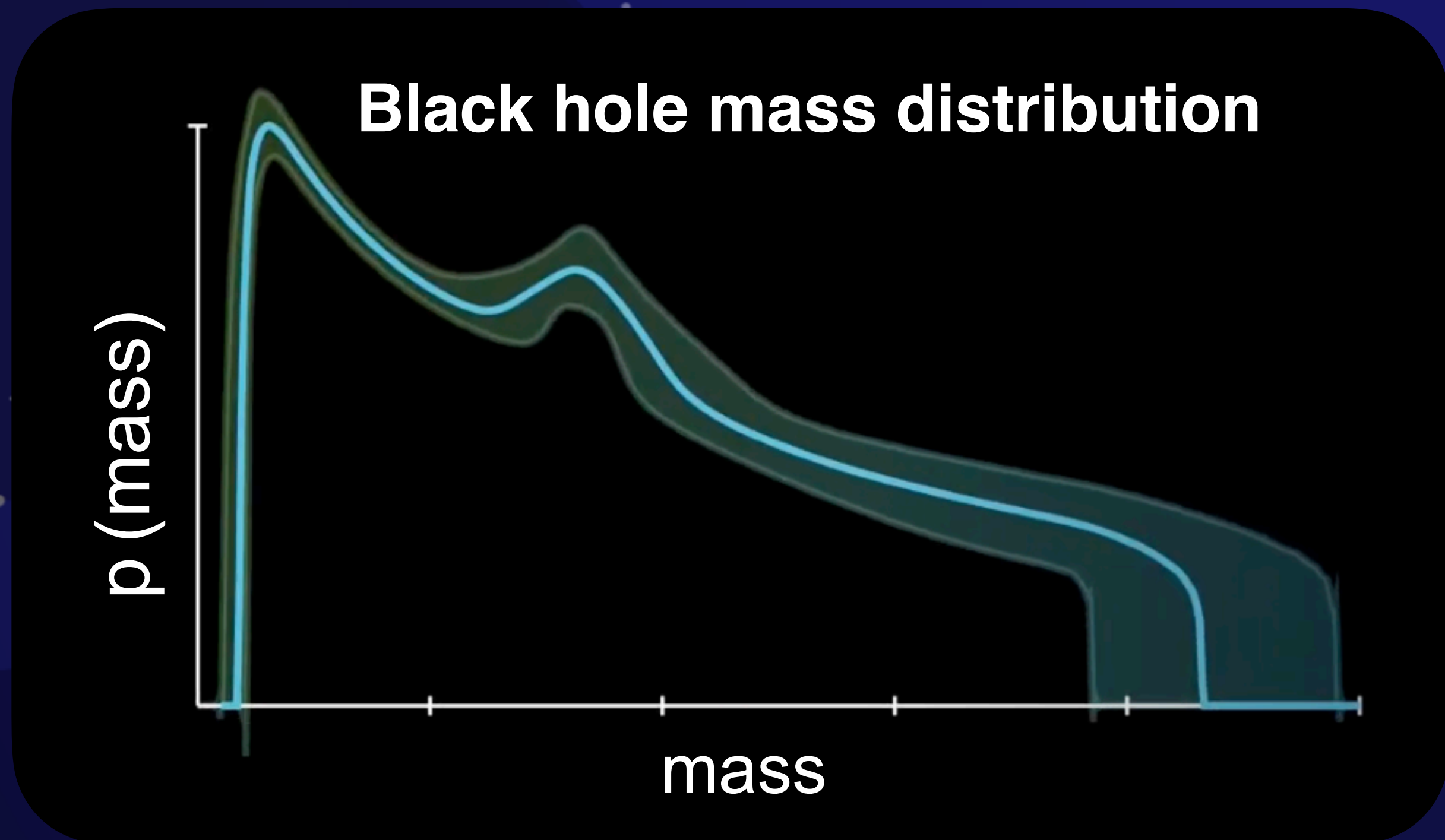
$$\{d_i\}$$

$$\{p_i(\theta | d_i)\} \rightarrow \mathcal{D}$$

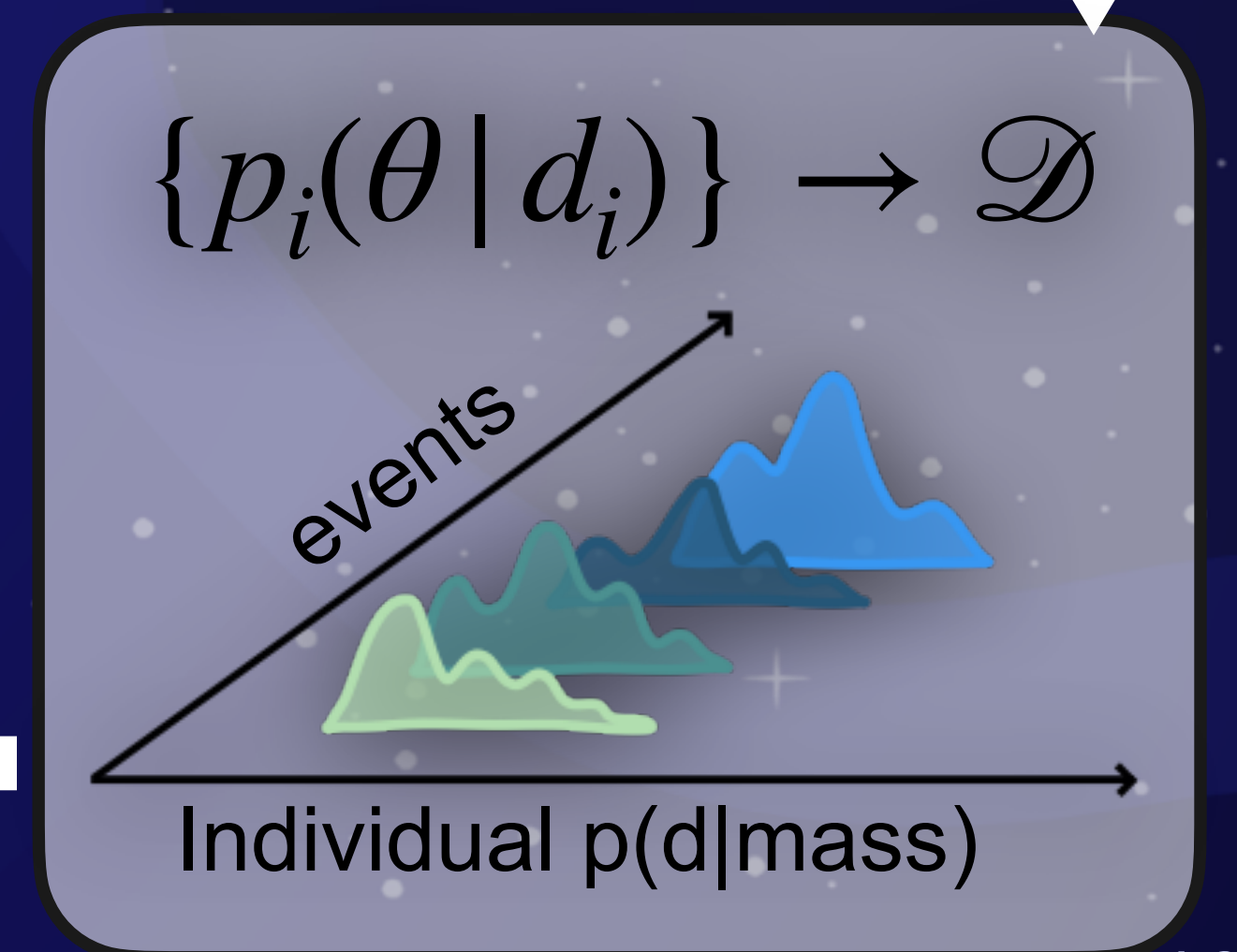


Population Analysis

Parametric / non-param modelling
Fit distributions to data



Parameter
estimation



Hyper-parameter
estimation

Forward (simulator) modelling
Simulate the universe forward in time

