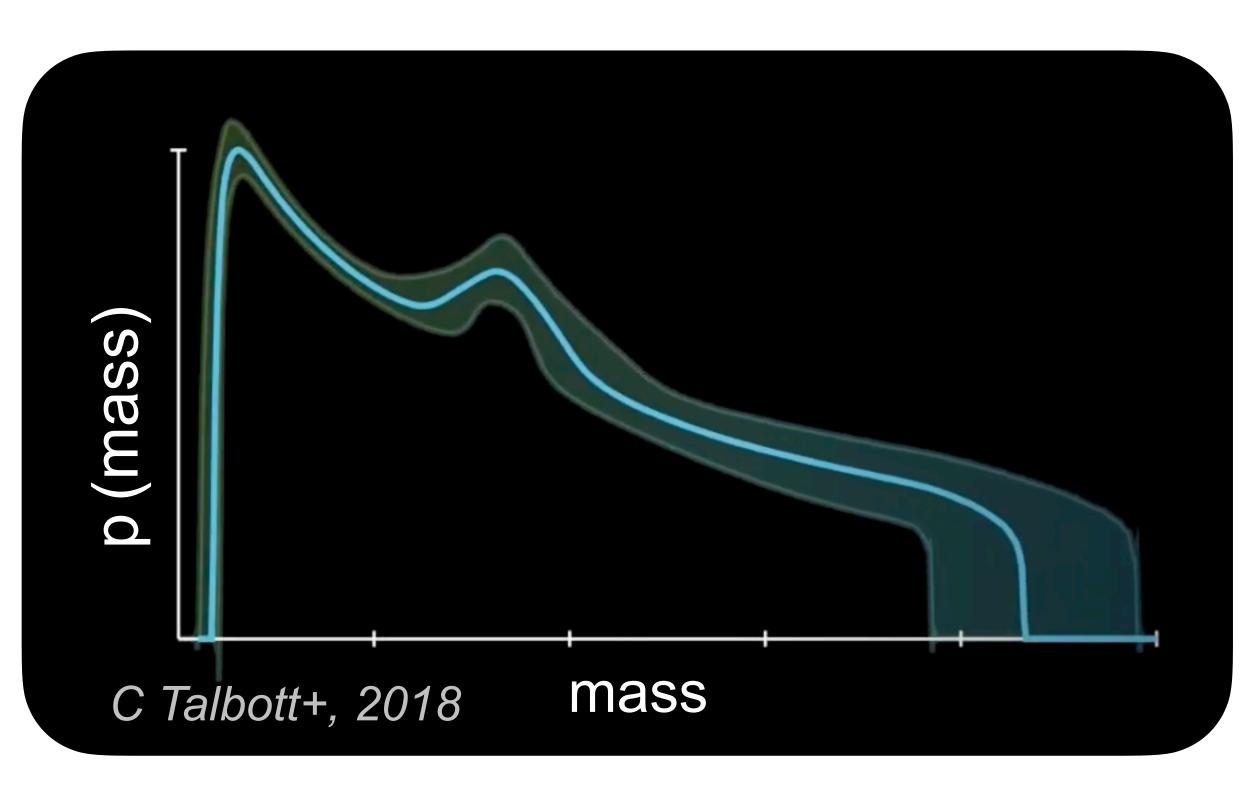


Big bang

Binary Black hole populations





Population Analysis

$$p_{\text{pop}}(\Lambda \mid \mathcal{D}) = \frac{L_{\text{pop}}(\mathcal{D} \mid \Lambda) \ \pi_{\text{pop}}(\Lambda)}{Z_{\text{pop}}}$$

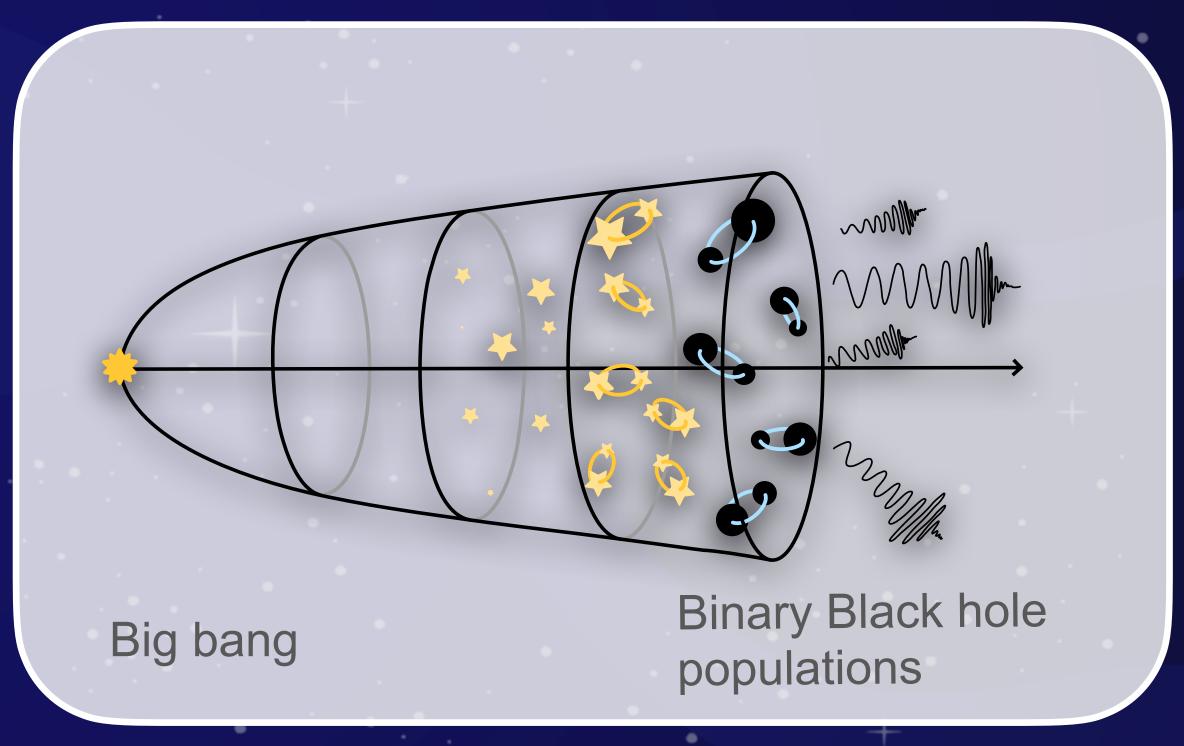
Parametric / non-param modelling Fit distributions to data

(sem) d

C Talbott+, 2018 mass

 Λ describes shape of distribution

Forward (simulator) modelling Simulate the universe forward in time



Λ describes evolution from

Big bang → stars → black holes → GW 9/20

Population Analysis

Parametric / non-param modelling Fit distributions to data

