

Input

- Source type (BBH, NSBH, BNS)
- Parameter names
- Priors ($\pi(\theta)$)
- Domain
- *lalsimulation* source model
- Waveform arguments ($f_s, f_{min}, f_{max}, f_{ref}, T$)
- Targets (θ, h_+, h_\times)

Simulator

$$\{h_+, h_\times \equiv x = \mathbf{g}(\theta, z)\}$$

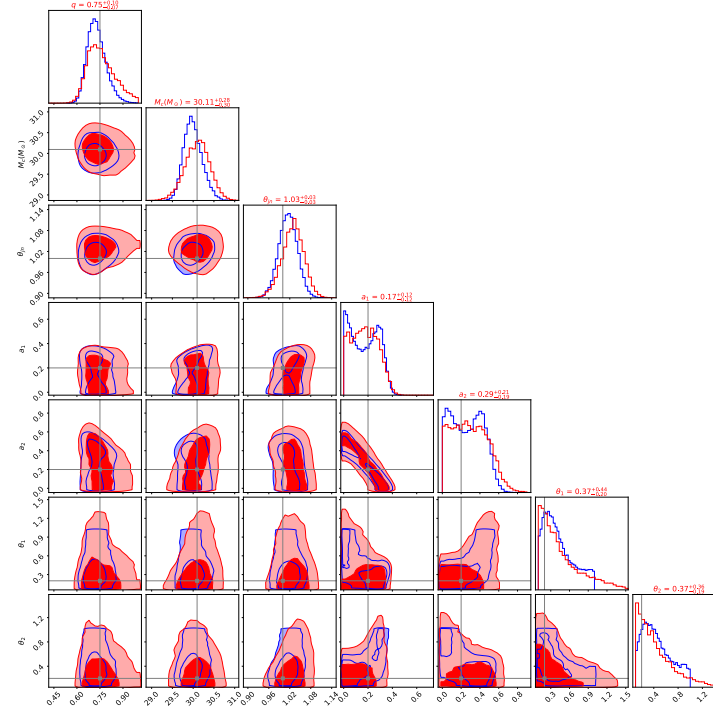
$$f(h_+, h_\times) \rightarrow d = h + n$$

Sample extrinsic parameters and IFO noise

Embedding network

**LogRatioEstimator_1dim,
LogRatioEstimator_Ndim**

Posteriors



Output

Generate new prior bounds for next round

Generate posterior distribution from ratios

Data

Ratio

