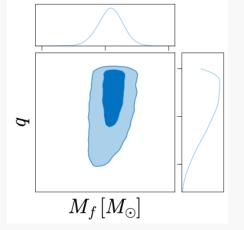


Event	Mass 1	•••	Posterior
GW150914	35.6+4.7	•••	
GW151012	23.2 ^{+14.9} _{-5.5}	•••	8
•••			~ <i>O</i> (1 MB)

Posterior



Lightweight Catalog

High-fidelity
Neural network weights



KAN

Density

Estimator

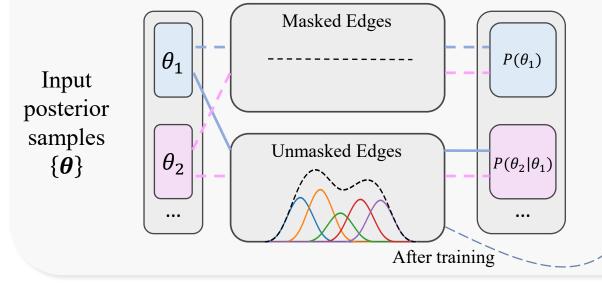
 $\sim \mathcal{O}(10^1 \text{ KB})$

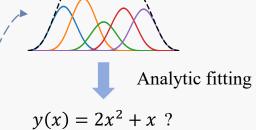
Lite format Symbolic expressions

$$P(\boldsymbol{\theta})$$

 $\sim \mathcal{O}(1 \text{ KB})$

Kolmogorov-Arnold Network based neural density estimator





Output posterior probability form

$$P(\boldsymbol{\theta}) = ?$$

Resampling

