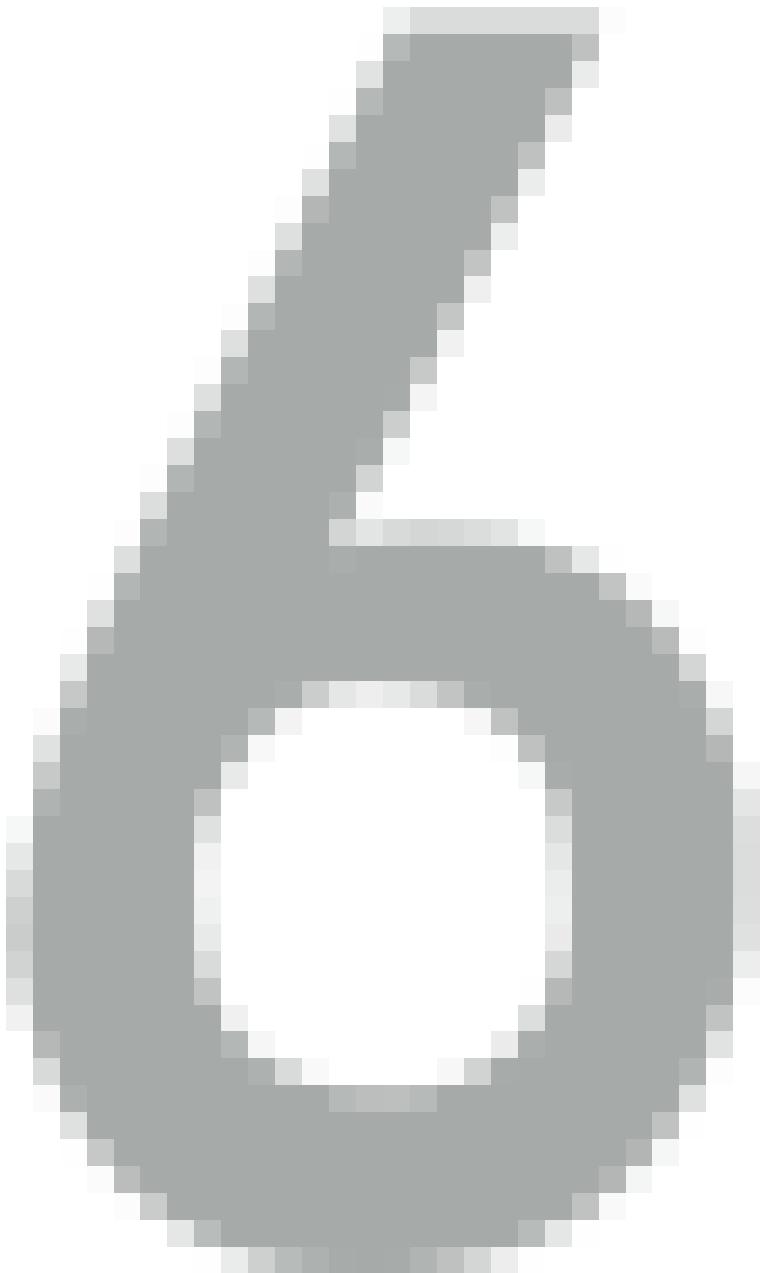


BAYESIAN PROBLEM

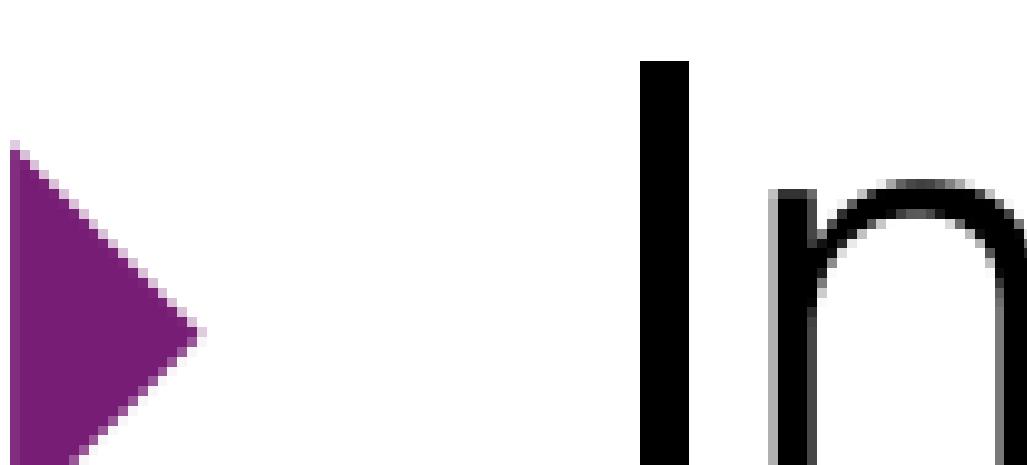


→ never and if it does it not be unique and if it does it not be unique

Some images are more like
key than others.

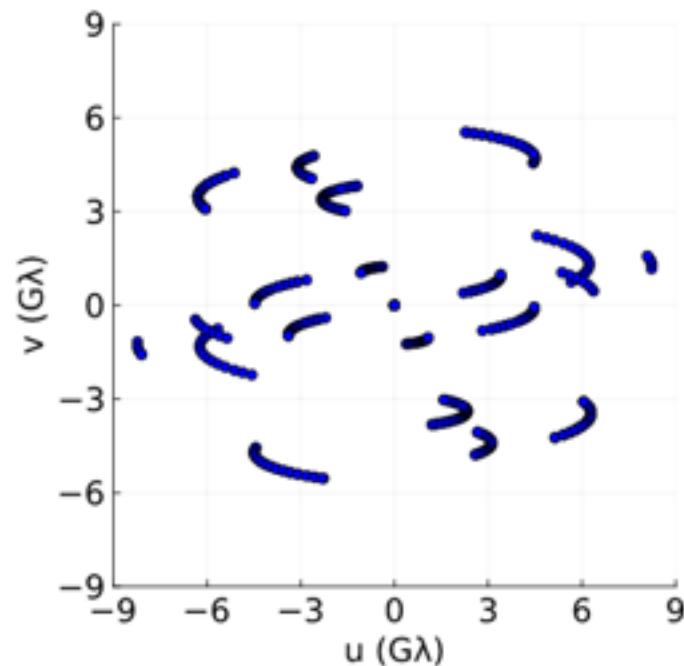
Solution: Introduce a prior $p(x)$ on the space of images X corresponding to feasible solutions.

→ <https://paranet.siamkrang-galissianressources.com>

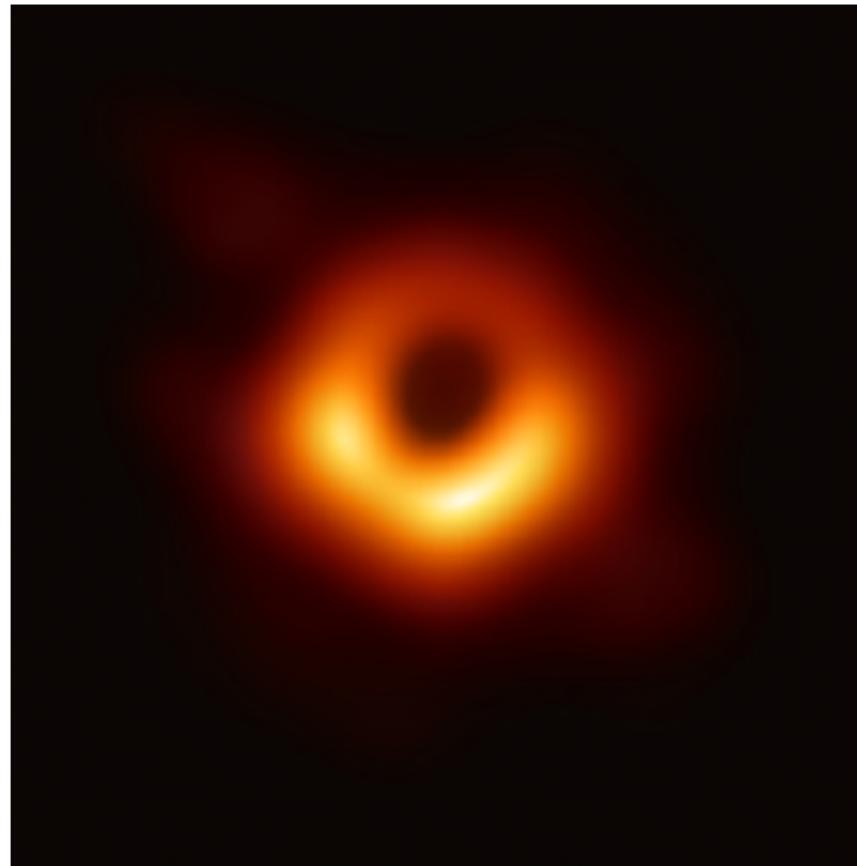


Infer the image from the posterior p(c)l

- ▶ **Problem:** Data is sparse, noisy, temporally corellated, and in Fourier space



Inference

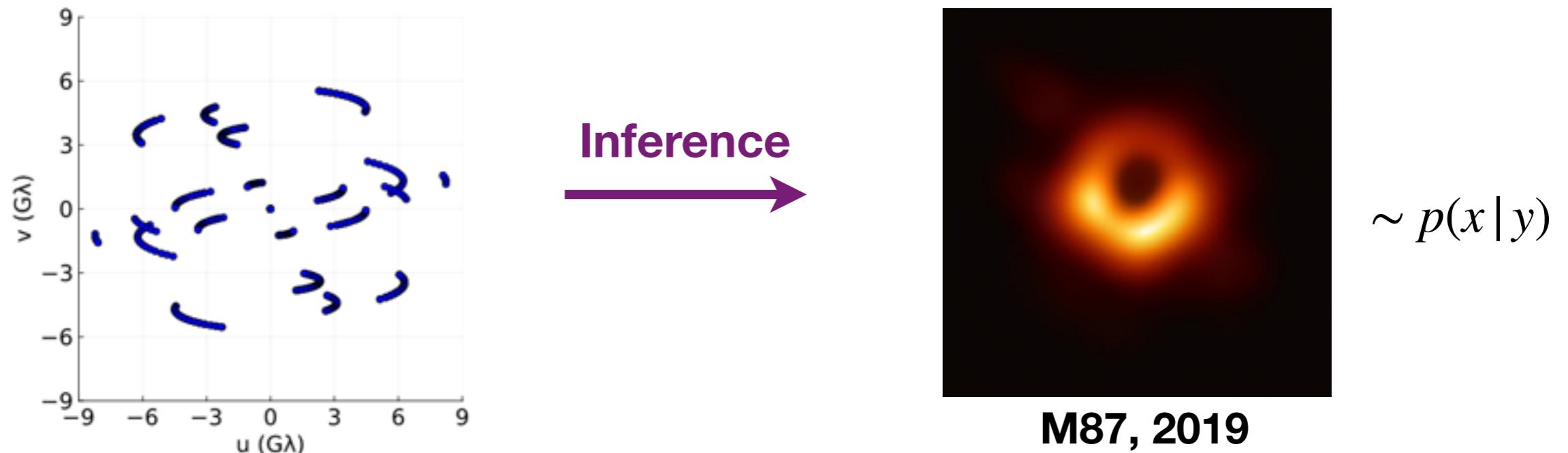


$$\sim p(x | y)$$

M87, 2019

BAYESIAN INVERSE PROBLEMS

- ▶ **Problem:** Data is sparse, noisy, temporally corellated, and in Fourier space
 - ▶ Inverse might not exist and if it does it might not be unique
 - ▶ Some images are more likely than others
- ▶ **Solution:** Introduce a prior $p(x)$ on the space of images \mathbb{X} corresponding to feasible
 - ▶ e.g. a log-gaussian process with unknown kernel parameters
 - ▶ Infer the image from the posterior $p(x | y)$



BAYESIAN WORKFLOW