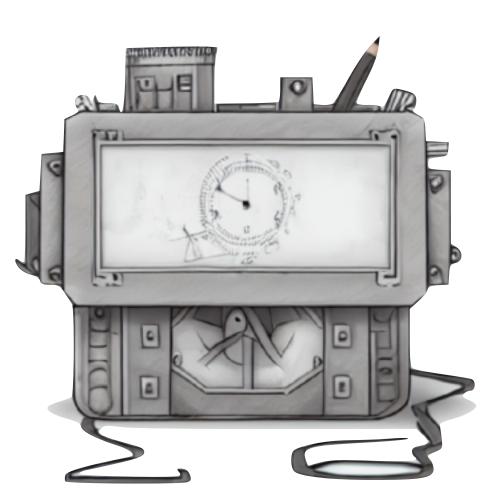
Siddharth Mishra-Sharma (MIT/IAIFI) | IAIFI Summer School





Simulator

Parameters

Observations

Prediction:

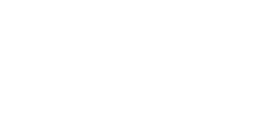
Well-motivated mechanistic, causal model

• Simulator can generate samples $x \sim p(x \mid \theta)$

Inference:

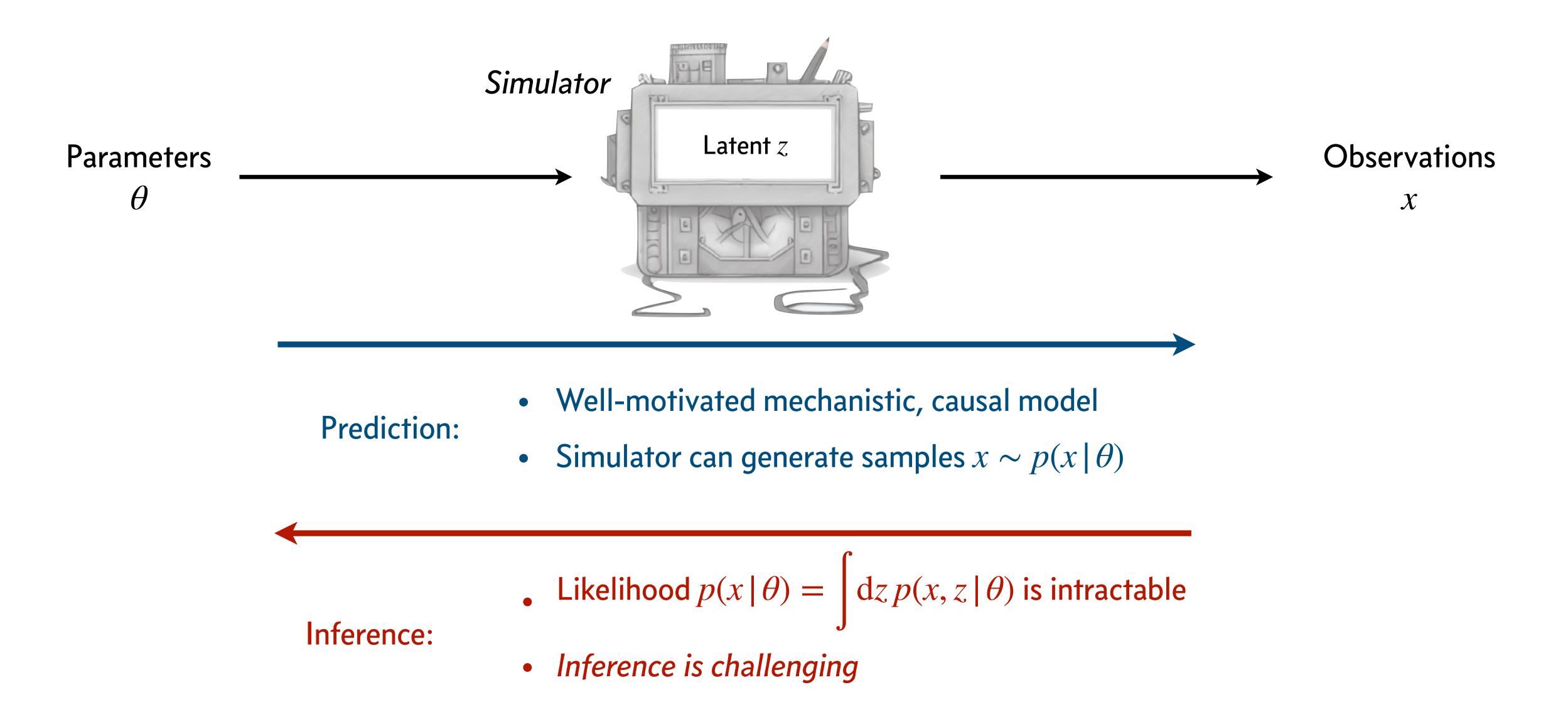
- Inference is challenging
- ence:

Simulation-based inference (SBI)



Latent z

Simulation-based inference (SBI)



Flows in simulation-based inference

Flows are commonly employed as conditional posterior density estimators in simulation-based inference

