



Tuesday December 15
Webinar ID [94271308587](#)
(password is required)

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“Bayesian Inference for Nuclear Astrophysics and Differential Geometry”

Generative models naturally generate a likelihood function, but generative models are often impractical to create. When the dimensionality of a non-generative model is not equal to the dimensionality of the data, writing down a simple likelihood function implicitly makes a implicit prior choice. In this talk, I will show how we can understand this implicit prior choice and how it impacts the posteriors using differential geometry. Then, I will talk about how Bayesian inference can be used to determine the properties of the nucleon-nucleon interaction from astrophysical observations.