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(password is required)

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“Model Emulation and Parameter Estimation”

With the rise of statistical and machine learning, model emulation and parameter estimation are now indispensable tools for tackling many nuclear physics problems. In this lecture, we will first introduce a popular emulation technique using a Gaussian process model, and show how this can be used for parameter estimation in computationally expensive physics models. We then apply this framework for inferring shear-viscosity of a Quark-Gluon-Plasma fluid.

(see https://github.com/derekeverett/simple_bayes_with_GP/blob/master/BANDCamp2020_Bayes_Param_Est_GP.ipynb).