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Matt Pratola

Ohio State University

“Bayesian Analysis of Nuclear Dynamics: Early Directions in Bayesian Model Mixing”

The Bayesian Analysis of Nuclear Dynamics (BAND) project aims to develop a framework for the use of advanced statistical methods to produce combined forecasts of nuclear-physics (NP) models. An important component of this project will therefore involve research in new methods of combining multiple NP models in useful ways. In this talk, we will outline some of the statistical background for combining models, namely Bayesian Model Averaging, and then move on to new ideas in combining models built on the popular framework of model calibration. Finally, we will outline some future directions for the investigation of more advanced techniques.