INT Program INT-16-2a Week 2

Bayesian Methods in Nuclear Physics

June 13 - July 8, 2016

ALL TALKS WILL BE HELD IN THE SEMINAR ROOM, C421, &
ALL AFTERNOON DISCUSSIONS WILL BE HELD IN C-423

Monday, June 20, 2016

9:00 AM	Welcome (plus introductions and logistics) Program organizers
9:30 AM	"An Example of Bayesian Model Calibration" Earl Lawrence, Los Alamos National Laboratory
11:00 AM	"Constraining the input parameters of a transport+hydrodynamics model of heavy ion collisions in RHIC beam energy scan range with the help of Gaussian emulators" Jussi Auvinen, Duke University
3:00 PM	Discussion Session

Tuesday, June 21, 2016

9:00 AM	"A poor man's attempt at fancy fitting of noisy lattice QCD data with exponentially degrading signal-to-noise ratios" André Walker-Loud, Lawrence Berkeley National Laboratory
10:30 AM	"Optimisation of the shell-model Hamiltonian for heavy nuclei and the underlying uncertainty" Chong Qi, KTH Stockholm
3:00 PM	Discussion Session

Wednesday, June 22, 2016

9:00 AM	"Fitting nonlocal energy density functionals for low-energy nuclear structure" Karim Bennaceur, Université Claude Bernard
10:30 AM	"Statistical analysis of Nucleon-Nucleon interactions" Rodrigo Navarro Perez, Lawrence Livermore National Laboratory
3:00 PM	"Bayes' Rule and Laplace's Big Data" by Sharon Bertsch McGrayne **To be held in C-520**

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Thursday, June 23, 2016

9:00 AM "Bayesian constraint curve fitting for lattice QCD"
Chia Cheng Chang, Lawrence Berkeley National Laboratory

10:30 AM "Bayesian parameter estimation for effective field theories"
Sarah Wesolowski, Ohio State University

3:00 PM Discussion Session

Friday, June 24, 2016

9:00 AM "Bayes this! Identifying and quantifying theoretical uncertainties."
Doron Gazit, Hebrew University of Jerusalem

10:30 AM Statistical Discussion

3:00 PM Discussion Session