INT Program INT-16-2a Week 1

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 13, 2016

9:00 AM   Welcome (plus introductions and logistics)
Program organizers

9:30 AM   "An introduction to Bayesian statistics and model calibration"
Derek Bingham, Simon Fraser University

11:00 AM   "The Bayesian Unified Monte Carlo Method for Evaluating and Utilizing Nuclear Reaction Data"
Donald Smith, formerly Argonne National Laboratory

3:00 PM   Discussion Session

Tuesday, June 14, 2016

9:00 AM   "Sloppiness of nuclear structure models"
Bartłomiej Szpak, IFJ PAN Krakow

10:30 AM   "Going beyond generalized least squares algorithms for estimating nuclear data observables"
Denise Neudecker, Los Alamos National Laboratory

3:00 PM   Discussion Session

Wednesday, June 15, 2016

9:00 AM   "Baryon Spectroscopy: Data Consistency and Model Discrimination"
David Ireland, University of Glasgow

10:30 AM   "Extraction of quark-gluon-plasma properties via a model to data analysis of relativistic heavy-ion collisions"
Jonah Bernhard / Steffen Bass, Duke University

3:00 PM   Discussion Session

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Thursday, June 16, 2016

9:00 AM   "A Pedestrian's Perspective of Applying Bayesian Statistics in Effective Field Theories"
Harald W. Griesshammer, George Washington University

10:30 AM   "Sloppy nuclear energy density functionals: model reduction by manifold boundaries"
Dario Vretenar, Universiy of Zagreb

3:00 PM   Discussion Session

Friday, June 17, 2016

9:00 AM   Statistical Discussion

3:00 PM   Discussion Session