INT Program INT-16-2a Week 3

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 27, 2016

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

9:30 AM "The Essence of the Bayesian Paradigm"
Nozer Singpurwalla, City University of Hong Kong

11:00 AM "Transforming Heavy-Ion Physics into a Quantitative Science"
Scott Pratt, Michigan State University

3:00 PM Discussion Session

Tuesday, June 28, 2016

9:00 AM "Predictive ab initio many-body theory"
Kyle Wendt, Technische Universität Darmstadt

10:30 AM "How well do we understand Beryllium-7 + proton -> Boron-8 + photon? A Bayesian Analysis Based on Effective Field Theory"
Xilin Zhang, University of Washington

3:00 PM Discussion Session

Wednesday, June 29, 2016

9:00 AM "The Roles of Nuclear Physics and the Maximum Mass in Constraining the Neutron Star Radius"
James Lattimer, Stony Brook University

10:30 AM "Propagating Nuclear Uncertainties from Databases to Applications"
Michael Buchoff, Lawrence Livermore National Laboratory

3:00 PM Discussion Session

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Thursday, June 30, 2016

9:00 AM	"Application of Bayesian Methods to Finding Jets in Heavy Ion Collisions, and potential applications in Nuclear Security" Ron Soltz, Lawrence Livermore National Laboratory
10:30 AM	"Improving the accuracy and computational efficiency of BNS waveform models for measuring the neutron star equation of state" Ben Lackey, Syracuse University
3:00 PM	Discussion Session

Friday, July 1, 2016

9:00 AM	"Nuclear charge and neutron radii and nuclear matter: correlation analysis in Skyrme-DFT" Witold Nazarewicz, Michigan State University
10:30 AM	Statistical Discussion
3:00 PM	Discussion Session