

INT Program INT-16-2a Week 4

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, July 4, 2016

- 9:00 AM Welcome (plus introductions and logistics)
Program organizers
- 9:30 AM "Bayesian statistics applied to complex models of physical systems"
Ian Vernon, Durham University
- 11:00 AM "Uncertainty quantification in ab initio nuclear theory"
Andreas Ekström, Chalmers University of Technology
- 3:00 PM Discussion Session

Tuesday, July 5, 2016

- 9:00 AM "Error plots, Bayesian methods, and model selection in EFT"
Natalie Klco, University of Washington / Daniel Phillips, Ohio University
- 10:30 AM "Connecting nuclear masses to the mysterious origins of the heavy elements"
Rebecca Surman, University of Notre Dame
- 3:00 PM Discussion Session

Wednesday, July 6, 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 "Constraining Neutron Star Properties from Laboratory Experiments"
Jorge Piekarewicz, Florida State University
- 3:00 PM Discussion Session

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Thursday, July 7, 2016

9:00 AM "The uncertainty quantifications in covariant density functional theory"
Anatoli Afanasjev, Mississippi State University

10:30 AM "Probing Neutron Star Interiors with Gravitational Waves"
Nicolas Yunes / Katerina Chatziioannou, Montana State University

3:00 PM Discussion Session

Friday, July 8, 2016

9:00 AM Statistical Discussion

3:00 PM Discussion Session