

2013 NUCLEI Annual Meeting
June 24-27, Indiana University
Except as otherwise noted, all meetings at the
Center of Exploration of Energy and Matter,
Integrated Science and Accelerator Technology Hall
2401 Milo Sampson Lane

Sunday

7PM Reception – home of Chuck Horowitz, 2756 Ciana Court

Monday

Meeting Introduction and Goals

9:00 - 9:15 Chuck Horowitz - Welcome

9:15 - 9:30 Carlson - Introduction, Goals and Highlights

9:30 - 9:50 Pieper - 12C ground state Hoyle State, Form Factors

9:50 - 10:10 Lusk – MPI-3 and ADLB

10:10 - 10:40 Break

10:40 - 11:00 Lovato – 12C response

11:00 - 11:20 Wiringa – light nucleus reactions

11:20 - 11:40 Lynn - QMC and non-local interactions

11:40 - 12:00 Gandolfi – neutron matter/drops

12:00 - 2 PM Lunch/Discussions

2:00 - 2:20 Gezerlis - chiral interactions and neutron matter

2:20 - 3:00 Maris/Vary - Summary of NCSM results

3:00 - 3:20 Aktulga - Recent Progress in MFDN

3:20 - 3:40 Caprio – NCSM with general radial bases

3:40 - 4:00 Break, followed by

Reddy – Discussion of neutron star crust/drops

Tuesday

9:00 - 9:20 Esmond Ng Challenges of Exascale Computing
9:20 - 10:10 Gaute Hagen - Summary of Couple Cluster calculations
10:10 - 10:30 Gustav Jansen -

10:30 - 11:00 Break

11:00 - 11:20 Neutrino-cross sections (Rex Tayloe)
11:20 - 11:40 Hai Ah Nam -

12 PM - 2 PM Lunch / Discussions

2:00 - 2:20 Dick Furnstahl - NUCLEI Website, Report, etc.
2:20 - 2:40 Dick Furnstahl – Overview of OSU/MSU Progress/Plans
2:40 - 3:00 Kyle Wendt – SRG Evolution of 3-Nucleon Forces
3:00 - 3:10 Sushant More - Universal properties
of infrared oscillator basis expansions
3:10 - 3:30 Scott Bogner
3:30 - 3:50 Heiko Hegert
3:50 - 4:00 Titus Morris

4:00 – Break, followed by discussion of Chiral forces

Wednesday

9:00 - 9:40 Schunck - DFT overview
9:40 - 10:00 Jordan McDonnell - fission
10:00 - 10:20 Erik Olsen – mass tables and landscape of 2p emitters
10:20 - 10:40 Dave Higdon - UQ

10:40 - 11:00 Break

11:00 - 11:25 Stefan Wild: POUNDERS
11:25 - 11:45 Yue Shi – KO conditions in DFT
11:50 - 12:10 Fann – MADNESS developments
12:10 - 12:30 Thornton – MADNESS HFB

12:30 - 2 PM Lunch / Discussions

2:00 - 2:20 Hinohara – Collective modes in DFT
2:20 - 2:40 Mustonen – Beta decay using finite amplitudes
2:40 - 3:10 Lisa Kaufman – EXO

3:10 - 3:30 Break

3:30 - 4:10 Filomena Nunes : FRIB theory discussion
4:10 - 4:30 Ted Barnes - View from Washington

NUCLEI Meeting Dinner
Federal Room, Indiana Memorial Union
900 East 7th Street

6:30 - Reception
7:00 - Dinner

Thursday

9:00 - 9:30 Engel – Double Beta Decay and NUCLEI
9:30 - 9:50 Mihai Horoi - Double Beta Decay
9:50 - 10:10 Senkov - closure vs. non-closure in double-beta decay

10:10 - 10:40 Break

10:40 - 11:20 Horowitz – Neutron Star Crust
11:10 - 11:30 da Silva Schneider Nuclear Pasta Formation
11:30 - 12:00 Andrew Steiner: Observational Constraints

12:00 – 1:30 PM Lunch/Discussions

1:30 – 3:15 NUCLEI Next Steps

- Year-1 summary (main accomplishments) (20 min)
- Year-2 plan (proposed deliverables from each group) (40 min)
- Annual Report (10 min)
- Town Meeting