Nuclear Structure and Reactions (Quantum Monte Carlo, Lanczos Methods, Density Functional Methods), June 6 - 10

All talks are 45 minutes + 15 minutes for discussion

Meeting Access Information: [http://evo.caltech.edu/evoNext/koala.jnlp?meeting=MvM2M12M2BDeDt9M91De9v](http://evo.caltech.edu/evoNext/koala.jnlp?meeting=MvM2M12M2BDeDt9M91De9v)

**Monday, June 6**

10:00 am  Wick Haxton  Introduction to the program
15 min    Steven Pieper  Introduction to first week and housekeeping details

10:20 am  James Vary  “Recent progress and new challenges in ab initio nuclear structure and nuclear reactions”

2:00 pm   Bira van Kolck  “Harmonic EFT: trapped atoms and nucleons”

**Tuesday, June 7**

10:00 am  Bruce Barrett  “Ab initio shell model: with and without a core”

11:30 am  Pieter Maris  “No-core configuration interaction calculations for light nuclear systems”

**Wednesday, June 8**

10:00 am  Andrey Shirokov  “Resonance energy and width in the no-core shell model”

2:00 pm   Aurel Bulgac  “Real-time deterministic and stochastic dynamics of Fermionic superfluid systems: nuclei and the unitary Fermi gas”

**Thursday, June 9**

10:00 am  Stefano Gandolfi  “Ab-initio calculation of confined neutrons and implications for Skyrme models”

2:00 pm   Baha Balantekin  “The analogy between the nuclear pairing problem and collective neutrino oscillations”

**Friday, June 10**

10:00 am  Robert Wiringa  “QMC calculations of light nuclei – more than just energies”