

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>

Monday, June 6

10:00 am		
15 min	Wick Haxton	Introduction to the program
5 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”
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