

UNEDF Annual Workshop Pack Forest WA, Aug. 13-16, 2007

Program

Monday Aug. 13 Morning: Ab Initio Theory

Workshop goals	George Bertsch
GFMC results for the benchmark potentials	Steve Pieper
NCSM benchmarks with Argonne and V_lowk potentials	Petr Navratil/Pieter Maris
Coupled Cluster calculations of Helium and Oxygen	David Dean/Gaute Hagen
Neutron matter EOS and pairing gap	Joe Carlson

Afternoon: group meetings

ab initio
ab initio-DFT interface

Evening: Mostly NN interactions

Low-momentum interactions for Nuclear DFT	Dick Furnstahl
Density-matrix expansion for Low-Momentum interactions	Scott Bogner
The T=0 pairing puzzle	Achim Schwenk
Overview of Reaction Theory	Ian Thompson

Tuesday Aug. 14 Morning: Mean Fields and Pairing

Superfluid Local Density Approximation	Aurel Bulgac
Tensor force in mean fields	Daisuke Abe
Odd-A nuclei with HFODD	Nicolas Schunck
Systematics of odd nuclei	Ludovic Bonneau

Afternoon: group meetings

Mass tables (Moller)
Double beta decay (Engel)
RPA
Leadership CI code (I)

Evening: DFT extensions

Problems with nondiagonal energy kernels in DFT	Thomas Duguet
Single-particle energies for CI and EDF applications	Alex Brown
Neutron-Proton Pairing	Bill Friedman
Benchmarks with HFODD and EV8_ODD	Carlos Bertulani
Comparison of CI with CC and other truncation methods	Mihai Horoi

Wednesday Aug. 15 Morning: DFT extensions, reactions

QRPA calculation of first 2^+ states of spherical nuclei	Jun Terasaki
Dipole response calculations with Skyrme TDDFT	Taka Nakatsukasa
Optical potentials from CC calculations	Goran Arbanas

Mitigating the sign problem in auxiliary field Monte Carlo Erich Ormand

Afternoon: Mt. Rainer outing

Evening: DFT extensions

Shell-model Hamiltonians from EDFs.
Configuration mixing with Skyrme

Yoram Alhassid
Kazu Yabana

Thursday

Aug. 16 Morning: Computation

Progress in MDF eigenvalue calculations
Performance of wavelet representation
General computing issues relevant to UNEDF
Performance of grid representation in 3D_SLDA
The asynchronous dynamic load-balancing library

Esmond Ng
George Fann
Kenny Roche
Piotr Magierski
Rusty Lusk

Afternoon: group meetings; general meeting

Leadership CI code II
level densities
General Meeting

Evening: Summary and goals for year 2

Ab initio
DFT

Joe Carlson
Witek Nazarewicz