

PROGRAM
ECT-Trento, October 25-30, 2010

Limits of existence of Light nuclei

Monday, October 25

Morning (Chair: Carlos Bertulani)

9:00	9:45	35+10	Artemis	Spyrou	Nuclear structure beyond the neutron dripline
9:45	10:30	35+10	Robert	Roth	Ab Initio studies of light nuclei with QCD-based interactions
10:30	11:00	Coffee Break			
11:00	11:45	35+10	Thomas	Neff	Structure and reactions of light nuclei studied in Fermionic Molecular Dynamics
11:45	12:30	35+10	Gaute	Hagen	Probing the driplines with ab-initio Coupled-Cluster theory

Afternoon (Chair: Mahir Hussein)

3:00	3:45	35+10	Takashi	Nakamura	Breakup reactions of neutron-rich nuclei near the limit of existence
3:45	4:30	35+10	Christian	Forsen	Towards the driplines with the ab initio No-Core Shell Model
4:30	5:00	Coffee Break			
5:00	5:45	35+10	Dennis	Weber	Operator representation of realistic potentials for nuclear many-body calculations
5:45	6:30	35+10	Felix	Wamers	Quasi-free knockout reactions with ^{17}Ne in inverse kinematics

Tuesday, October 26

Morning (Chair: Angela Bonaccorso)

9:00	9:45	35+10	Olivier	Sorlin	Effects of continuum on nucleon-nucleon forces viewed from experimental constraints
9:45	10:30	35+10	Guillaume	Blanchon	Particle-particle RPA applied to beryllium isotopes
10:30	11:00	Coffee Break			
11:00	11:45	35+10	Ionel	Stetcu	The road from trapped cold atoms to few-nucleon systems
11:45	12:30	35+10	Jimmy	Rotureau	Effective Field Theory for the nuclear shell model

Afternoon (Chair: Bira van Kolck)

3:00	3:45	35+10	Haik	Simon	Spectroscopy along and across the neutron dripline
3:45	4:30	35+10	Dick	Furnstahl	Operator evolution for light nuclei in the similarity renormalization group
4:30	5:00	Coffee Break			
5:00	5:45	35+10	Scott	Bogner	In-medium similarity renormalization group methods for nuclei and nuclear matter
5:45	6:30	35+10	Thomas	Papenbrock	Towards an effective theory for heavy nuclei

Wednesday, October 27

Morning (Chair: Dick Furnstahl)

9:00	9:45	35+10	Aksel	Jensen	Astrophysical few-body problems related to light unstable nuclear states
9:45	10:30	35+10	Michele	Viviani	Study of the 3N force in A=4 systems
10:30	11:00	Coffee Break			
11:00	11:45	35+10	Achim	Schwenk	Chiral three-nucleon forces and neutron-rich nuclei
11:45	12:30	35+10	Jason	Holt	Three-nucleon forces and nuclear structure evolution towards the driplines

Wednesday, October 27

Afternoon (Free)

Thursday, October 28

Morning (Chair: Tom Aumann)

9:00	9:45	35+10	Grisha	Rogachev	Structure of light exotic nuclei in resonance scattering
9:45	10:30	35+10	Hans-W.	Hammer	Universality in QCD and halo nuclei
10:30	11:00	Coffee Break			
11:00	11:45	35+10	Sunethra	Ramanan	Physics of particle-hole channels: light nuclei and nuclear matter
11:45	12:30	35+10	Mihai	Horoi	Nuclear structure and nuclear reaction mechanisms towards the proton drip line

Afternoon (Chair: Giuseppina Orlandini)

3:00	3:45	35+10	Leonid	Chulkov	Resonances and anti-bound states in light nuclei beyond the neutron drip-line
3:45	4:30	35+10	Renato	Higa	Properties of alpha- and nucleon-clusters in the light of EFT
4:30	5:00	Coffee Break			
5:00	5:45	35+10	Gautam	Rupak	Effective field theory for halo nuclei: neutron capture on ${}^7\text{Li}$
5:45	6:30	35+10	Vadim	Lensky	RG analysis or coupled-channel scattering and the ${}^7\text{Li}(p,n){}^7\text{Be}$ system

Friday, October 29

Morning (Chair: Misha Zhukov)

9:00	9:45	35+10	Nico	Orce	2^+_{1} state in ${}^{10}\text{Be}$: testing ab-initio calculations
9:45	10:30	35+10	Akram	Mukhamedzanov	Unitary correlations in nuclear reaction theory for light nuclei: divorce of nuclear reactions and spectroscopic factors
10:30	11:00	Coffee Break			
11:00	11:45	35+10	Mahir	Hussein	Influence of the halo upon angular distributions for elastic scattering and breakup: A near/far analysis
11:45	12:30	35+10	Wataru	Horiuchi	Universality of short-range correlations in nuclei

Afternoon (Chair: Olivier Sorlin)

3:00	3:45	35+10	Misha	Zhukov	Two-proton radioactivity
3:45	4:30	35+10	Doron	Gazit	Weak decays and reactions in light nuclei
4:30	5:00	Coffee Break			
5:00	5:45	35+10	Tobias	Frederico	Scaling in light nuclei with a weakly-bound two-neutron halo
5:45	6:30	35+10	Winfried	Leidemann	Calculation of electromagnetic reactions with the LIT method

Saturday morning: final discussions