

# Prospects on the microscopic description of odd mass nuclei and other multi-quasiparticle excitations with beyond-mean- field and related methods

<b>MON</b> <b>25/09/2017</b>	
<b>8:30 AM</b>	<b>Workshop Registration</b>
09:00-09:15	Welcome speech Director ECT* (Professor J. Wambach)
09:15-10:00	Robledo: " <i>Self-consistent description of multiquasiparticle excitations: odd nuclei and high K isomers</i> "
10:00-10:30	Coffee Break
10:30-11:30	Heenen: " <i>How to create a 1qp state and what does it mean?</i> "
11:30-12:30	Bender: " <i>Time-odd terms in nuclear energy density functionals</i> "
12:30-14:00	Lunch
14:00-15:00	Afanasjev: " <i>Single-particle degrees of freedom in covariant density functional theory: the successes and challenges</i> "
15:00-16:00	Vretenar: " <i>Signatures of shape phase transitions in odd-mass nuclei</i> "
16:00-16:30	Coffee Break
16:30-17:00	discussion
<b>TUES</b> <b>26/09/2017</b>	
09:00-10:00	Ackermann: " <i>Tracking single particle states in transfermium nuclei</i> "
10:00-10:30	Coffee Break
10:30-11:30	Duguet: " <i>Calculation of the norm matrix within a set of non-orthogonal many-body states</i> "
11:30-12:30	Dobaczewski: " <i>DFT nuclear magnetic moment</i> "
12:30-14:00	Lunch
14:00-15:00	Ryssens: " <i>Impact of methods and symmetries of quasiparticle excitations in mean-field theory</i> "
15:00-16:00	Bally: " <i>Configuration mixing of symmetry-restored odd-quasiparticle excitations for the description of odd-mass nuclei</i> "
16:00-16:30	Coffee Break
16:30-17:00	discussion
<b>WED</b> <b>27/09/2017</b>	
09:00-10:00	Rodriguez: " <i>Symmetry conserving configuration mixing calculations with cranking states</i> "
10:00-10:30	Coffee Break
10:30-11:30	Pillet: " <i>Self-consistent multiparticle-multihole configuration mixing</i> "
11:30-12:30	Bottoni: " <i>The Hybrid Configuration Mixing Model</i> "
12:30-14:00	Lunch
14:00-15:00	Bernard: " <i>The Schrödinger Collective Intrinsic Model</i> "
15:00-16:00	Litvinova: " <i>Recent progress on the description of odd and odd-odd nuclei in relativistic models</i> "
16:00-16:30	Coffee Break
16:30-17:00	discussion
<b>THU</b> <b>28/09/2017</b>	
09:00-10:00	Nomura: " <i>Beyond-mean-field boson-fermion model for odd nuclei</i> "
10:00-10:30	Coffee Break
10:30-11:30	Marketin: " <i>Decay of neutron-rich nuclei</i> "
11:30-12:30	Yannouleas: " <i>Quantum space-time crystals</i> "
12:30-14:00	Lunch
14:00-15:00	Raimondi: " <i>Dipole response of medium-mass nuclei in the Self-Consistent Green's Function approach</i> "
15:00-16:00	Marquez: " <i>Neutron-proton pairing in atomic nuclei</i> "
16:00-16:30	Coffee Break
16:30-17:00	discussion
<b>FRI</b> <b>29/09/2017</b>	
09:00-10:00	Discussion session
10:00-10:30	Coffee Break
10:30-12:30	Wrap-up discussion and closing of the workshop
12:30 PM	Lunch