

ECT* Workshop
Reactions and Nucleon Properties in Rare Isotopes
April 6-10, 2010

Program

Tuesday April 6th

9:00 am	Arrival and registration	
9:30 am	Dickhoff (WU St Louis)	Introductory remarks workshop
9:45 am	Noro (Kyushu)	Study of single particle properties and nuclear medium effects by using (p,pN) reactions
10:30 am	Coffee	
11:00 am	Charity (WU St Louis)	Studying neutron and protons correlations in the framework of the dispersive optical model
11:45 am	Obertelli (CEA Saclay)	Discussion of one-nucleon removal cross sections
12:30 pm	Discussion	
1:00 pm	Lunch	
2:00 pm	Piekarewicz (FSU)	Introduction
2:15 pm	Garg (Notre Dame)	GMR in the Sn and Cd isotopes: K_{∞} , K_{τ} , and the MEM Effect
3:00 pm	Suzuki (Nihon)	Electron capture reactions in fp-shell nuclei and beta decays in rare isotones
3:45 pm	Coffee	
4:15 pm	Rios (Surrey)	Depletion of the nuclear Fermi sea
5:00 pm	Utsuno (JAEA)	Shell model approach to exotic nuclei--description by monopole-based universal interaction and development of a new MCSM code
5:45 pm	Discussion	
~7:00 pm	Welcome dinner at "La Baracca"	

Wednesday April 7th

9:00 am	Nunes (NSCL/MSU)	Introduction
9:15 am	Johnson (Surrey)	Extracting nuclear structure information from (d,p) and (p,d) experiments
10:00 am	Tsang (NSCL/MSU)	Spectroscopic Factors of Ar isotopes from transfer and knock-out reactions
10:45 am	Coffee	
11:15 am	Mukhamedzhanov (TAM)	The combined method for transfer reactions
12:00 pm	Timofeyuk (Surrey)	Progress in understanding of the spectroscopic factors and their reduction from the standard shell model values
12:45 pm	Discussion	
1:00 pm	Lunch	

2:00 pm	Aumann (GSI)	Introduction
2:15 pm	Kanungo (St Mary's)	Reaction spectroscopy of neutron-rich nuclei at TRIUMF and GSI
3:00 pm	Tanihata (RCNP Osaka)	Looking for the Effects of Tensor Forces in Nuclei
3:45 pm	Coffee	
4:15 pm	Vigezzi (Milano)	Two neutron transfer and medium polarization effects in ^{11}Li
5:00 pm	Broglia (Milano)	NFT description of Cooper pair structure and tunneling in halo systems: the origin of pairing in nuclei
5:45 pm	Discussion	

Thursday April 8th

9:00 am	Barbieri (RIKEN)	Introduction
9:15 am	Otsuka (Tokyo)	Role of tensor and 3-body forces and exotic nuclei
10:00 am	Uesaka (CNS Tokyo)	Polarization study of unstable nuclei
10:45 am	Coffee	
11:15 am	Dieperink (KVI)	Charge and neutron radii of heavy nuclei in a generalized liquid drop model
12:00 pm	Sick (Basel)	High momentum components: how to (and how not to) measure them
12:45 pm	Discussion	
1:00 pm	Lunch	
2:00 pm	Nunes (NSCL/MSU)	Introduction
2:15 pm	Moro (Sevilla)	Understanding the scattering of ^6He and ^{11}Li at energies around the Coulomb barrier
3:00 pm	Deltuva (Lisbon)	Few-body nuclear reactions in transition operator framework
3:45 pm	Coffee	
4:15 pm	Canton (INFN Padova)	Study of low-lying resonances in light-medium rare isotopes with a coupled-channel approach
5:00 pm	Ryckebusch (Ghent)	What densities can be probed in nucleon removal reactions?
5:45 pm	Lay (Sevilla)	Exploring continuum structures with pseudo-state basis
6:00 pm	Discussion	

Friday April 9th

9:00 am	Aumann (GSI)	Introduction
9:15 am	Harakeh (KVI/GSI)	Gamow-Teller transitions: implications for Supernova scenarios and double-beta decay
10:00 am	Boretzky (GSI)	Experimental results on the dipole response of exotic nuclei
10:45 am	Coffee	
11:15 am	Wakasa (Kyushu)	Pionic and tensor correlations on spin and isospin responses
12:00 pm	Lemmon (Daresbury)	Quasifree Scattering Experiments at GSI/FAIR
12:45 pm	Taylor (Liverpool)	Analysis of $^{12}\text{C}(p,2p)^{11}\text{B}$ experiment at 400 AMeV in inverse kinematics at GSI
1:00 pm	Lunch	
2:00 pm	Dickhoff (WU St Louis)	Introduction
2:15 pm	Sakai (Tokyo)	Search for the beta+ IVSM resonance via $(t,^3\text{He})$ reactions at 900 MeV. --The first result from SHARAQ spectrometer--
3:00 pm	Barbieri (RIKEN)	Introduction
3:15 pm	Shimoura (CNS Tokyo)	Single-particle wave functions near the threshold -coupled-channel effects on spectroscopic factors-
4:00 pm	Coffee	
4:30 pm	Van Neck (Ghent)	Full spectral function in the dispersive optical model
5:15 pm	Waldecker (WU St Louis)	Extensions of the dispersive optical model
5:30 pm	Degroote (Ghent)	Faddeev Random Phase Approximation: from nuclei to molecules
5:45 pm	Discussion	
~7:30 pm	Social dinner at "Patelli's"	

Saturday April 10th

9:00 am	Piekarewicz (FSU)	Introduction
9:15 am	Horowitz (Indiana)	Parity violating measurements of neutron densities: the lead radius experiment and beyond
10:00 am	Colo (Milano)	Constraints on the symmetry energy from the dipole response of stable and unstable nuclei: a comparison with other approaches
10:45 am	Coffee	
11:15 am	Polls (Barcelona)	A microscopic perspective of the density dependence of the nuclear symmetry energy
12:00 pm	Benhar (Roma)	How far can we push the impulse approximation picture?
12:45 pm	Closing	
~1:15 pm	Lunch at "La Baracca"	