



Programme of the ECT* workshop on

“Recent advances and challenges in the description of nuclear reactions at the limit of stability”

5—9 March 2018

Monday 5 March

9h-9h30	Registration
9h30-9h50	Welcome address
9h50-10h40	Kazuyuki Ogata (40'+10') “Description of proton-induced inclusive knockout reactions”
10h40-11h10	Coffee break
11h10-12h00	Kate Jones (40'+10') “Single proton transfer reactions”
12h00-12h40	Edoardo Lanza (30'+10') “Isoscalar and isovector probes to investigate the Pygmy Dipole Resonances”
12h40-14h30	Lunch
14h30-15h20	Giuseppina Orlandini (40'+10') “Electromagnetic reactions: from few- to many-body systems”
15h20-16h00	Mario Gomez Ramos (30'+10') “Study of 'quenching factors' for (p,pn) and (p,2p) reactions through the Transfer to the Continuum formalism”
16h00-16h30	Coffee break
16h30-17h20	Andrea Idini (40'+10') “Optical potentials and knockout reactions from chiral interactions”
17h20-18h00	Chloë Hebborn (30'+10') “Low-energy correction to the eikonal description of elastic scattering and breakup of halo nuclei”

Tuesday 6 March

- 9h30-10h20 Mahir Hussein (40'+10')
"On the foundation of the Trojan Horse and Surrogate Methods"
- 10h20-10h50 Coffee break
- 10h50-11h40 Rituparna Kanungo (40'+10')
"Nuclear structure and nuclear force probed through direct reactions of light rare isotopes"
- 11h40-12h20 Jiecheng Yang (30'+10')
"Investigation of transfer to the bound states and resonance of ^{11}Be via the $^{10}\text{Be}(d,p)$ reaction using the ADWA method"
- 12h20-14h30 Lunch
- 14h30-15h20 Haik Simon (40'+10')
"Nuclear reactions with relativistic nuclei - Example: Oxygen isotopes"
- 15h20-16h00 Yoshida Kazuki (30'+10')
"Investigation on alpha cluster states via knockout reaction"
- 16h00-16h30 Coffee break
- 16h30-17h20 Guillaume Hupin (40'+10')
"*Ab initio* theory for reactions and exotic nuclei"
- 17h20-18h00 Chong Qi (30'+10')
"Alpha clustering and pairing correlation in heavy nuclei and two-neutron transfer reaction"

Wednesday 7 March

- 9h30-10h20 Filomena Nunes (40'+10')
"Uncertainties in nuclear reactions"
- 10h20-10h50 Coffee break
- 10h50-11h40 Takashi Nakamura (40'+10')
"Breakup reactions and spectroscopy of neutron drip line nuclei"
- 11h40-12h20 Stefano Burrello (30'+10')
"Charge-exchange reactions and role of competing transfer channels"
- 12h20-14h30 Lunch
- 14h30-15h20 Arnoldas Deltuva (40'+10')
"Few-body reactions in neutron-rich systems"
- 15h20-16h00 Lorenzo Fortunato (30'+10')
"On the connection between polarized gammas and nuclear clustering"
- 16h00-16h30 Coffee break
- 16h30-18h Discussion session

Thursday 8 March

- 9h30-10h20 Andrea Vitturi (40'+10')
"Testing phase transitions with two-particle transfer reactions"
- 10h20-10h50 Coffee break
- 10h50-11h40 Karsten Riisager (40'+10')
"Complementary probes of the nuclear continuum"
- 11h40-12h20 Matteo Vorabbi (30'+10')
"Ab initio calculations for exotic nuclei"
- 12h20-14h30 Lunch
- 14h30-15h20 Manuela Rodríguez Gallardo (40'+10')
"Dynamics of ${}^9\text{Be}$ in a three-cluster model"
- 15h20-16h00 Laura Moschini (30'+10')
"Description high energy breakup of ${}^{11}\text{Be}$ at GSI"
- 16h00-16h30 Coffee break
- 16h30-18h Discussion session

Friday 9 March

- 9h30-10h20 Alexandre Obertelli (40'+10') "TBA"
- 10h20-10h50 Coffee break
- 10h50-11h40 Manuela Cavallaro (40'+10')
"Double Charge Exchange Reactions and their connections to neutrinoless double beta decay"
- 11h40-12h Concluding remarks
- 12h00-14h Lunch