



First SPES School on Experimental Techniques with Radioactive Beams

November 8-11, 2011

LNS conference room

Tuesday 8th

8:30-9:00 **Registration**

9:00-9:15 **G. Cuttone** LNS Director

Welcome

9:15-10:15 **M.J.G. Borge** (CSIC, Madrid, Spain)

Beta-decay studies: peering into nuclear structure (I)

10:15-11:15 **T. Kröll**, Technische Universität Darmstadt, Germany

Spectroscopy of exotic nuclei at Rex-Isolde (I)

11:15 **Coffe break**

11:45-12:45 **G. Prete** (INFN-LNL)

The SPES facility

12:45-13:00 **L. Acosta** (INFN-LNS)

Study of the scattering of neutron-rich helium isotopes at energies around the barrier

13:00 **Lunch**

14:30-15:30 **T. Davinson**, School of Physics & Astronomy, University of Edinburgh, UK

Radioactive beams: experimental challenges (I)

15:30-16:30 **A. Galindo-Uribarri**, ORNL and University of Tennessee, US

Physics with radioactive beams at ORNL (I)

16:30 **Coffe break**

17:00-18:00 **S. Corradetti** (INFN-LNL)

The target for the SPES project: materials synthesis and experimental tests

18:00-18:15 **E.V. Pagano** (INFN-Sezione di Catania)

The Farcos project

18:30 **Bus to downtown**

Wednesday 9th

- 9:00-10:00 **T. Davinson**, School of Physics & Astronomy, University of Edinburgh, UK
Radioactive beams: experimental challenges (II)
- 10:00-11:00 **A. Galindo-Uribarri**, ORNL and University of Tennessee, US
Physics with radioactive beams at ORNL (II)
- 11:00 **Coffe break**
- 11:30-12:30 **M. Colonna** (INFN-LNS)
Dissipative reaction mechanisms at SPES energies
- 12:30-12:45 **L. Propelec** (RBI- Zagreb)
 $^{13}\text{C} + ^4\text{He}$ resonant elastic scattering
- 12:45-13:00 **V. Tokic** (RBI- Zagreb)
Study of ^{24}Mg resonances relevant for carbon burning nucleosynthesis
- 13:00 **Lunch**
- 14:30-15:30 **M.J.G. Borge** (CSIC, Madrid, Spain)
Beta-decay studies: peering into nuclear structure (II)
- 15:30-16:30 **T. Kröll**, Technische Universität Darmstadt, Germany
Spectroscopy of exotic nuclei at Rex-Isolde (II)
- 16:30 **Coffe break**
- 17:00-18:00 **F. Cappuzzello** (INFN-LNS and University of Catania)
Use of magnetic spectrometers with radioactive beams
- 18:00-18:15 **D. Carbone** (INFN-LNS and University of Catania)
States in ^{14}C and ^{15}C studied via the ($^{18}\text{O}, ^{16}\text{O}$) reaction.
- 18:30 **Bus to downtown**

Thursday 10th

- 9:00-10:00 **M.J.G. Borge** (CSIC, Madrid, Spain)
Beta-decay studies: peering into nuclear structure (III)
- 10:00-11:00 **T. Davinson**, School of Physics & Astronomy, University of Edinburgh, UK
Radioactive beams: experimental challenges (III)
- 11:00 **Coffe break**
- 11:30-12:30 **E. Farnea** (INFN-Padova)
The Agata detector
- 12:30-12:45 **V. Vandone** (INFN- Sezione di Milano and Università di Milano)
Study of the order-to-chaos transition in ^{174}W
- 12:45-13:00 **A. Morales** (INFN-Sezione di Milano and Università di Milano)
Beta-decay spectroscopic studies of the neutron-rich $^{211,212,213}\text{Tl}$ isotopes
- 13:00 **Lunch**
- 14:30-15:30 **T. Kröll**, Technische Universität Darmstadt, Germany
Spectroscopy of exotic nuclei at Rex-Isolde (III)
- 15:30-16:30 **A. Galindo-Uribarri**, ORNL and University of Tennessee, US
Physics with radioactive beams at ORNL (III)
- 16:30 **Coffe break**
- 17:00-18:00 **P. Figuera** (INFN-LNS)
Experimental studies of collisions induced by halo nuclei at energies around the Coulomb barrier
- 18:00-18:15 **T. Marchi** (INFN-LNL and Università di Padova)
Upgrading the RIPEN apparatus with digital electronics in perspective of the SPES radioactive beams
- 18:30 **Bus to downtown**
- 20:00 **Conference dinner**

Friday 10th

- 9:00-10:00 **T. Kröll**, Technische Universität Darmstadt, Germany
Spectroscopy of exotic nuclei at Rex-Isolde (IV)
- 10:00-11:00 **M.J.G. Borge** (CSIC, Madrid, Spain)
Beta-decay studies: peering into nuclear structure (IV)
- 11:00 **Coffe break**
- 11:30-12:30 **S. Pirrone** (INFN-Sezione di Catania)
Fragmentation Beams at LNS
- 12:30-12:45 **M. Fisichella** (INFN-LNS and Università di Messina)
Characterization of DSSSD detectors
- 12:45-13:00 **S. Bottoni** (INFN-sezione di Milano and Università di Milano)
Reaction dynamics and gamma spectroscopy studies of Ne isotopes by the heavy ion reactions $^{22}\text{Ne} + ^{208}\text{Pb}$ at 130 and 152 MeV
- 13:00 **Lunch**
- 14:30-15:30 **A. Galindo-Uribarri**, ORNL and University of Tennessee, US
Physics with radioactive beams at ORNL (IV)
- 15:30-16:30 **T. Davinson**, School of Physics & Astronomy, University of Edinburgh, UK
Radioactive beams: experimental challenges (IV)
- 16:30 **Coffe break**
- 17:00-18:00 **M. Mazzocco**, INFN Sezione di Padova and University of Padova, Italy
RIB production and reaction dynamics studies with the facility Exotic at LNL
- 18:00 Closure of the School
- 18:30 **Bus to downtown**