ECOS-LINCE WORKSHOP: Nuclear physics with high intensity ion beams



Wednesday 8 July 2015 - Friday 10 July 2015 El Rompido (Huelva)

Scientific Programme

Wednesday, July 8 (Welcome, Status of ENSAR/ECOS/LINCE, Physics at ECOS)

Chair: Angela Bracco

09:30-09:50 *Welcome address and "Updates of the LINCE project at Huelva"* (I. Martel, University of Huelva, Spain)

09:50-10:10 "Updates of ENSAR2" (M. Harakeh, KVI-CART, Netherlands)

10:10-10:30 "Updates of ECOS" (F. Azaiez, IPN Orsay, France)

10:30-11:00 Coffee Break

11:00-11:45 "Status and Perspectives in Superheavy Element Research" (M. Block, GSI/HIM/JGU, Germany)

11:45-12:15 "The frontiers of the spectroscopy of proton-rich nuclei with high intensity heavy-ion accelerators" (B. Cederwall, KTH Royal Institute of Technology, Sweden)

12:15-14:00 Lunch Break

Chair: Marek Lewitowicz

14:00-14:30 "Towards the production and characterization of neutron rich nuclei at energies around the barrier" (N. Alahari, GANIL, France)

14:30-15:00 "Inelastic scattering of 17O at 20 MeV/u : a tool for the study of the tail of giant resonances" (A. Bracco, University of Milano and INFN, Italy)

15:00-15:30 "Physics with S3 at Spiral2" (A. Drouart, CEA, France)

15:30-16:00 Coffee break

16:00-16:30 "Status and perspectives in reaction dynamics, correlations and EoS" (G. Verde, IPN Orsay, France)

16:30-17:00 "Symmetry energy studies with 4pi detectors and magnetic spectrometers" (A. Chbihi, GANIL, France)

17:00-17:30 "Future Challenges in Nuclear Astrophysics with High Intensity Stable Ion Beams" (A. Tumino, University of Enna "Kore" and INFN-LNS, Italy)

18:00-19:30 Meeting of the ECOS Steering Committee (closed session)

Thursday, July 9 (Physics with Light Ion Beams)

Chair: Faiçal Azaiez

09:00-09:30 "Nuclear Structure around the N=Z line" (S. Lenzi, University of Padova and INFN, Italy)

9:30-10:15 Open Discussion on intense stable heavy-ion beams (F. Azaiez, M. Harakeh)

10:15-11:00 "Perspectives on direct reactions with ECOS and discussion" (S. Gales, IPN Orsay & ELI-NP, France, Romania; F. Azaiez, IPN Orsay, Orsay France)

11:00-11:30 Coffee Break

10:30-12:00 "Giant Collective Modes in Nuclei" (M. Harakeh, KVI-CART, Netherlands)

12:00-12:30 "New frontiers in nuclear structure using charge-exchange reactions with high intensity light ions beams" (H. Sakai, RIKEN, Japan)

12:30-13:00 "Study of collective excitation modes in atomic nuclei using stable light ion beams" (A. Hennig, Inst. of Nuclear Physics, Un. of Cologne, Germany)

13:00-14:30 Lunch break

Chair: Hide Sakai

14:30-15:00 "*Experimental approaches to study 3NF effects using light-ion beams*" (J. Messchendorp, KVI-CART, Netherland)

15:00-15:30 "Three-nucleon force effects in few-nucleon systems" (A. Kozela, IFJ PAN, Poland)

15:30-16:00 "The study of tensor forces via nucleon transfer (p,d) reaction" (S. Terashima, Beihang University, China)

16:00-16:30 Coffee break

16:30-17:3 "Open discussion on intense stable light ion beams and science and applications with intense stable beams" (Chair: A. Maj, IFJ PAN, Poland; Moderators: F. Azaiez S. Gales, M. Harakeh, H. Sakai)

Friday, July 10 (Technical developments)

Chair: Sydney Gales

09:30-10:00 "Building a European Collaboration for the European Spallation Source" (C. Darve, European Spallation Source, Sweden)

10:00-10:30 "The MYRRHA Accelerator project" (H. Saugnac, IPN Orsay, France)

10:30-11:00 "FFAG as a tool for ECOS-LINCE accelerator" (C. Bontoiu, Univ. Huelva, Spain)

11:00-11:30 Coffee Break

11:30-12:00 "The SPIRAL 2 project at GANIL" (J.-M. Lagniel, GANIL, France)

12:00-13:15 "Technical challenges for future very high intensity LINAC and Open Discussion" (J.-S. Bousson, IPN Orsay, France)

13:00-14:30 Lunch / end of workshop