

ECOS-LINCE WORKSHOP: PERSPECTIVES OF HIGH INTENSITY BEAMS AT THE LINCE FACILITY IN SPAIN



Wednesday 30 October 2013 - Thursday 31 October 2013

Scientific Programme

The scope of the meeting will include fundamental and applied research topics by using high intensity stable ion beams:

- Superheavy
- Astrophysics
- Reaction dynamics and clustering
- Nuclear structure
- Ground state properties
- Plasma physics
- Nuclear energy
- Nuclear medicine
- Aerospace
- New methods and facilities

OCTOBER 30

Morning session

Chair:
B. Fulton (Univ. York, United Kingdom)

9.00
Welcome

9.25-9.50

M. Harakeh (KVI, Netherlands & GANIL, France)

ENSAR

9.50-10.15

F. Azaiez (IPN Orsay, France)

ECOS

10.15-10.40

I. Martel (Univ .Huelva, Spain)

LINCE

10.40
Cofee break

11.10-11.35

D. Ackermann (GSI, Germany)

Paving the way to the island of stability – superheavy element research at GSI and beyond

11.35-12.00

W. Barth (GSI, Germany)

The GSI superheavy factory project

12.00-12.25

J.E. García Ramos (Univ. Huelva, Spain)

Shape coexistence in Pt and Hg isotopes

12.25-12.50

A. Vitturi (Univ. Padova, Italy)

Testing pairing correlations via two-particle transfer reactions

12.50

Lunch

Afternoon session

Chair:

B. Rubio (Inst. Fis. Corp. Valencia, Spain)

15.00-15.25

R. Wolski (Joint Inst. for Nucl. Research, Russia)

Compound Nucleus Nature of Heavy Ions Sub-Barrier Fusion.

15.25-15.50

B. Fornal (Inst. of Nucl. Phys. PAN-Kraków, Poland)

Gamma-ray spectroscopy of neutron-rich nuclei with deep-inelastic reactions – studies of nanosecond isomers with high intensity stable beams

15.50-16.15

S. Leoni (Univ. Milano and INFN, Italy)

Gamma spectroscopy experiments at finite temperature with high intensity stable ions beams

16.15
Cofee break

16.45-17.10
E. Bayo-Lozano (Hosp. J.R. Jiménez, Spain)

Medical physics and radiotherapy with heavy ions

17.10-17.35

Y. Morilla (Univ. Huelva, Spain)

Applications of heavy ions in aerospace research

17.35-18.00

M. Lewitowicz (GANIL, France)

Status of Spiral2 facility

18.00
ECOS/LINCE OPEN DISCUSSION

Chair:
F. Azaiez (IPN Orsay, France)

21.00
WORKSHOP DINNER

OCTOBER 31

Morning session

Chair:
D. Galaviz (Centro de Fís. Nucl. da Univ. Lisboa, Portugal)

9.00-9.25
B. Fulton (Univ. York, United Kingdom)

An ECOS facility for nuclear astrophysics

9.25-9.50

L.Trache (Nat. Inst. of Phys. and Nucl. Eng., Romania)

Nuclear astrophysics using high intensity stable beams

9.50-10.15

R. Reifarth (Goethe Univ., Frankfurt, Germany)

Nuclear Astrophysics at FRANZ

10.15-10.40

A. Tumino (Kore Univ., Enna and LNS-INFN Catania, Italy)

Direct Nuclear Reactions and Astrophysics

10.40

Cofee break

11.10-11.35

M. La Cognata (INFN-LNS,Italy)

Nuclear astrophysics with indirect methods using high intensity stable beams

11.35-12.00

G. Politi (Dpto. Fis. e Astron. & INFN - Catania, Italy)

Isotopic effects on formation and decay of compound system

12.00-12.25

F. Capuzzello (Univ. Catania & LNS-INFN, Italy)

Nuclear reactions as tools for neutrino mass

12.25-12.50

C. Rodríguez Tajés (GANIL , France)

Fission investigations in inverse kinematics (with stable beams)

12.50
Lunch

Afternoon session

Chair:
F. Azaiez (IPN Orsay, France)

15.00-15.25
F. Pérez (ALBA Synchrotron - CELLS, Spain)

ALBA Synchrotron Light Source

15.25-15.50

J. Garzón (LabCAF-Univ. Santiago de Compostela, Spain)

TimTrack, a new algorithm for the reconstruction of low energy events.

15.50-16.15

T. Kurtukian (CENBG-Gradignan, France)

Isobar separation of low-energy radioactive exotic beams

16.15
Cofee break

16.45-17.10
A. Maj (IFJ PAN, Kraków, Poland)

CCB at IFJ PAN Krakow - a new infrastructure of stable ion beams for hadrontherapy and basic physics

17.10-17.35

A.C. Villari (FRIB-Michigan State University, USA)

Facility for Rare Isotope Beams: overview and status

18.00-19.30
ECOS COMMITTEE MEETING

Chair:
M. Harakeh (KVI, Netherlands & GANIL, France)