

SPIRAL2 Week 2010 – Detailed Scientific Programme

Monday January 25th, 2010 - Morning

Introduction

Chair: Sydney Galès – GANIL, France

9:30 – 9:50 **GANIL-SPIRAL2: A new area at the dawn of a decade**
S. Galès – GANIL, France

9:50 – 10:25 **Status of SPIRAL2**
M. Jacquemet – GANIL, France

10:25 – 11:00 **SPIRAL2 Physics and Collaborations**
M. Lewitowicz – GANIL, France

11:00 – 11:30 Coffee Break

RNB Session – 1

Chair: Hanna Frånberg - Delahaye – GANIL, France

11:30 – 12:00 **ENSAR-European collaboration for development of high density UCx targets**
T. Stora – CERN/ISOLDE, Switzerland

12:00 – 12:30 **Engineering Studies of the production building and its exploitation**
M. Quiclet – GANIL, France

12:30 – 13:00 **Status of the Tests of a Carbon Converter and delay window**
L. Tecchio – INFN-LNL, Italy

13:00 – 14:30 Lunch

Monday January 25th, 2010 - Afternoon

RNB Session – 2

Chair: Franck Varenne – GANIL, France

- 14:30 – 15:00 **Characterisations of the UC_x targets and the hot lab constructions at IPNO**
B. Hy – IPNO, France
- 15:00 – 15:20 **Tests of Spiral 2 Target Ion Source Systems and effusion measurement**
O. Bajeat – GANIL, France
- 15:20 – 15:40 **Developments and tests of the surface ion source**
A. Pichard – GANIL, France
- 15:40 – 16:00 **Plans for the laser ion source at SPIRAL2**
N. Lecesne, GANIL, France
- 16:00 – 16:20 **RILIS laser sources at ISOLDE/CERN**
V. Fedosseev – CERN, Switzerland

16:20 – 16:50 Coffee Break

RNB Session – 3

Chair: Mathieu Quiclet – GANIL, France

- 16:50 – 17:10 **Evolution of the RIB Production Module**
Y. Huguet – GANIL, France
- 17:10 – 17:30 **Transport beam lines**
F. Osswald – IPHC, France
- 17:30 – 17:50 **Identification stations**
D. Etasse – LPC Caen, France
- 17:50 – 18:10 **Charge breeder and N⁺ beam line**
T. Lamy – LPSC, France
- 18:10 – 18:30 **SPIRAL2 High Intensity Cooler**
G. Ban – LPC Caen, France
- 18:30 – 18:50 **High Resolution Separator**
T. Kurtukian Nieto – CENBG, France

19:00 Cocktail

Tuesday January 26th, 2010 - Morning

Driver Accelerators – 1

Chair: Patrick Bertrand – GANIL, France

- 9:00 – 9:25 **New developments of cavities and cryomodules at ANL**
J. Fuerst – ANL, USA
- 9:25 – 9:50 **Design of the RFQ for the IFMIF/EVEDA project**
A. Pisent – INFN/LNL, Italy
- 9:50 – 10:15 **Our experience on beam losses at the SNS**
A. Aleksandrov – ORNL/SNS, USA
- 10:15 – 10:40 **Beam surveillance at the PSI proton accelerator**
A. Mezger – PSI, Switzerland
- 10:40 – 11:05 **Construction of LINAC 4**
M. Vretenar – CERN, Switzerland

11:05 – 11:30 Coffee Break

Driver Accelerators – 2

Chair: Robin Ferdinand – GANIL, France

- 11:30 – 12:00 **Progress of construction of the SPIRAL2 driver**
P. Bertrand – GANIL, France
- 12:00 – 12:20 **Recent results on SPIRAL2 cavities and cryomodules**
G. Olry – IPNO, France
- 12:20 – 12:40 **SPIRAL2 Command-Control concept and status**
E. Lécorché – GANIL, France
- 12:40 – 13:00 **Final design of the SPIRAL2 HEBT lines**
L. Perrot – IPNO, France

13:00 – 14:30 Lunch

Tuesday January 26th, 2010 - Afternoon

Infrastructures and Operation of High Power Accelerators

Chair: Jean-Michel Lagniel – GANIL, France

14:30 – 15:05 **Present and future developments of the CERN infrastructures**
M. Poehler – CERN, Switzerland

15:05 – 15:30 **Infrastructures & Integration of SPIRAL2**
E. Petit – GANIL, France

15:30 – 15:50 **Fast growing use of the Sandwich Technique for the construction of heavy shielded buildings**
J. Forster – Univ. Erlangen, Germany/Forster

15:50 – 16:25 **Construction of the KAERI PEPF Facility**
Y.-S. CHO – KAERI, Korea

16:25 – 17:00 Coffee Break

17:00 – 18:30 **Parallel Meetings** (see separate Programme of Parallel Meetings for details)

Wednesday January 27th, 2010 - Morning

RNB & High Beam Power Facilities Worldwide

Chair: Dominique Guillemaud-Mueller – IPNO, France

- 9:00 – 9:25 **The FAIR facility**
 B. Sharkov – GSI, Germany
- 9:25 – 9:50 **The SPES project**
 G. Prete – INFN, Italy
- 9:50 – 10:15 **ISAC&ISAC II at TRIUMF**
 J. Dilling – Triumpf, Canada
- 10:15 – 10:40 **Present status of RIKEN RIBF**
 T. Motobayashi – RIKEN, Japan
- 10:40 – 11:05 **EURISOL DS and follow-up**
 Y. Blumenfeld – CERN, Switzerland
- 11:05 – 11:30 **FRIB**
 W. Mittig, MSU NSCL, USA

11:30 – 12:00 Coffee Break

Safety

Chair: Josiane Sauret – GANIL, France

- 12:00 – 12:20 **SARAF beam commissioning and safety**
 L. Weissman – SOREQ, Israel
- 12:20 – 12:40 **Radiation safety at PSI**
 A. Fuchs – PSI, Switzerland
- 12:40 – 13:00 **Radiological protections SPIRAL2 Phase 1**
 E. Pichot – GANIL, France

13:00 – 14:30 Lunch

Wednesday January 27th, 2010 - Afternoon

European Strategy for SPIRAL2 and other research infrastructures

Chair: Sydney Galès – GANIL, France

- 14:30 – 14:55 **European strategy for Research Infrastructures & ERIC legal structure**
D. Pasini – EC, Belgium
- 14:55 – 15:20 **French Strategy for the European Research Infrastructures**
G. Fioni – French Ministry for Research
- 15:20 – 15:45 **German Strategy for the European Research Infrastructures**
M. Pantea – German Ministry for Research
- 15:45 – 16:10 **Spanish Strategy for the European Research Infrastructures**
B. Sanchez Gimeno – Spanish Ministry for Research
- 16:10 – 16:35 **Bulgarian Participation in SPIRAL2 Project**
M. K. Gaidarov – INRNE, Bulgaria

16:35 – 17:00 Coffee Break

LRP2010@GANIL

Chair: Patricia Roussel-Chomaz – GANIL, France

- 17:00 – 17:50 **Status of the NuPECC LRP**
F. Azaiez – IPNO, France
- Reports from the Working Groups:**
- 17:50 – 18:00 **Structure and dynamics**
S. Grévy – GANIL, France
- 18:00 – 18:10 **Phases of nuclear matter**
R. Bougault – LPC Caen, France
- 18:10 – 18:20 **Nuclear astrophysics**
F. De Oliveira – GANIL, France
- 18:20 – 18:30 **Fundamental Interactions**
E. Liénard – LPC Caen, France
- 18:30 – 18:40 **Interdisciplinary aspects and Applications**
M. Toulemonde – CIMAP, France
- 18:40 – 19:20 **Discussion**
Moderators - F. Azaiez and W. Korten
- 19:20 – 19:30 **Following actions**
M. Lewitowicz – GANIL, France

19:30 Conference dinner

Thursday January 28th, 2010 - Morning

Forefront questions in nuclear structure theory

Chair: Francesco Iachello – Yale University, USA (tbc)

9:00 – 10:00 **From few to many nucleons; a tale on recent advances (and challenges) in nuclear many-body theory**
M. Hjorth-Jensen – Univ. of Oslo and MSU East Lansing

10:00 – 11:00 **New ideas and new results in the nuclear energy density functional approach**
J. Dobaczewski – Univ. of Warsaw and Univ. of Jyväskylä

11:00 – 11:30 Coffee Break

Open Joint Session of SPIRAL2 SAC – Theory for SPIRAL2 and new proposals for SPIRAL2 Detectors

Chair: Muhsin Harakeh – KVI & GSI, The Netherlands & Germany

11:30 – 12:10 **Theory for SPIRAL2**
M. Ploszajczak – GANIL, France

12:10 – 12:40 **HELIOS project for SPIRAL2**
B. Back – ANL, USA

12:40 – 13:05 **DESIR**
D. Lunney – CSNSM, France

13:05 – 14:30 Lunch

Thursday January 28th, 2010 - Afternoon

Open Joint Session of SPIRAL2 SAC – Status reports of the SPIRAL2 Detectors

Chair: Muhsin Harakeh – KVI & GSI, The Netherlands & Germany

14:30 – 14:55 **ACTAR**

P. Roussel-Chomaz – GANIL, France

14:55 – 15:20 **NEDA neutron detector**

J. J. Valiente Dobon – INFN, Italy

15:20 – 15:45 **EXOAM2**

G. de France – GANIL, France

15:45 – 16:10 **FAZIA**

G. Poggi – INFN, Italy

16:10 – 16:35 **S3**

J. Nolen – ANL, USA

16:35 – 17:00 Coffee Break

17:00 **INRAS Workshop** (see separate programme for details)