

# SPIRAL2 Week 2009 – Detailed Scientific Programme

Monday January 26<sup>th</sup>, 2009 - Morning

## Introduction

*Chair:*

- 9:30 – 9:40 **Welcome**  
S. Galès – GANIL, France
- 9:40 – 10:20 **Status of SPIRAL2**  
M. Jacquemet – GANIL, France
- 10:20 – 11:00 **SPIRAL2 Physics and Collaborations**  
M. Lewitowicz – GANIL, France

*11:00 – 11:30 Coffee Break*

## RNB Session – 1

*Chair: M.-H. Moscatello*

- 11:30 – 11:50 **Engineering Studies of the Red Zone**  
M. Quiclet – GANIL, France
- 11:50 – 12:10 **Measurement of Neutron Production with C, H<sub>2</sub>O, D<sub>2</sub>O target**  
G. Lhersonneau – GANIL, France
- 12:10 – 12:30 **News from HIE-ISOLDE**  
R. Catherall – CERN, Switzerland
- 12:30 – 13:00 **Tests of Actinide Targets at Triumph**  
P. Bricault – TRIUMF, Canada

*13:00 – 14:30 Lunch*

Monday January 26<sup>th</sup>, 2009 - Afternoon

**RNB Session – 2**

*Chair:*

- 14:30 – 14:40 **Target Ion Source Systems – Introduction**  
R. Leroy – GANIL, France
- 14:40 – 15:10 **Status of the Tests of a Carbon Converter**  
L. Tecchio – INFN-LNL, Italy
- 15:10 – 15:30 **A Heavy Water Converter for SPIRAL2**  
A. Cadiou – SUBATECH, France
- 15:30 – 16:00 **Target Ion Source Systems with “Other Targets”**  
L. Serani – CENBG, France
- 16:00 – 16:15 **Off-Line Tests of a C Target Coupled to Monobob**  
O. Bajeat – GANIL, France
- 16:15 – 16:30 **Target Tests at Orsay**  
S. Essabaa – IPNO, France

16:30 – 17:00 *Coffee Break*

**RNB Session – 3**

*Chair: R. Catherall – CERN, Switzerland*

- 17:00 – 17:10 **Radioactive Beam Transport Line – Introduction**  
F. Varenne – GANIL, France
- 17:10 – 17:30 **SPIRAL2 High Intensity Cooler**  
G. Ban – LPCCaen, France
- 17:30 – 17:50 **High Resolution Separator**  
T. Kurtukian Nieto – CENBG, France
- 17:50 – 18:10 **Booster**  
T. Lamy – LPSC, France
- 18:10 – 18:30 **IBE**  
D. Etasse – LPCCaen, France

19:30 *Cocktail*

Tuesday January 27<sup>th</sup>, 2009 - Morning

**Driver Accelerators – 1**

*Chair: T. Junquera – IPNO, France*

- 9:00 – 9:25 **SPIRAL2 Stable Beams and Accelerator Tuning**  
P. Bertrand – GANIL, France
- 9:25 – 9:50 **Progress and New SPIRAL2 - LINAC Results**  
R. Ferdinand – GANIL, France
- 9:50 – 10:15 **High Intensity Heavy-Ion Sources for SPIRAL2**  
Th. Thuillier – LPSC, France
- 10:15 – 10:40 **LLRF and Cavity Piloting at SPIRAL2**  
Ph. Galdemard – CEA/DSM/IRFU, France

*10:40 – 11:10 Coffee Break*

**Driver Accelerators – 2**

*Chair: J.-M. Lagniel – GANIL, France*

- 11:10 – 11:35 **Beam Diagnostics Experiences from the High Current Operation at GSI-UNILAC**  
P. Forck – GSI, Germany
- 11:35 – 12:00 **IFMIF: Project Status and Convergences with SPIRAL2**  
A. Mosnier – CEA/DSM/IRFU, France
- 12:00 – 12:25 **Status of the SARAF CW 40 MeV Proton/Deuteron Accelerator**  
I. Mardor – SOREQ, Israel
- 12:25 – 12:50 **TRIUMF's ISAC facility: Current status and future plans**  
C. Morton – TRIUMF, Canada

*12:50 – 14:30 Lunch*

Tuesday January 27<sup>th</sup>, 2009 - Afternoon

**Infrastructure and Operation of High Power Accelerators**

*Chair: J. Forster – Forster Bau GmbH, Germany*

- 14:30 – 14:55 **General presentation of Phase 1- and 2-Buildings**  
J.-M. Lagniel – GANIL, France
- 14:55 – 15:15 **Sandwich Experiments at GSI**  
R. Müller – Univ. Erlangen, Germany
- 15:15 – 15:50 **Why SNS is a Success, Good and Bad Experiences**  
J. Galambos – ORNL, USA
- 15:50 – 16:25 **Prerequisites for Successful High Power Beam Operation**  
M. Seidel – PSI, Switzerland
- 16:25 – 17:00 *Coffee Break*
- 17:00 – 18:30 **Parallel Meetings**

Wednesday January 28<sup>th</sup>, 2009 - Morning

**RNB & High Beam Power Facilities Worldwide**

*Chair:*

- 9:00 – 9:30 **The FAIR facility**  
J. Gerl – GSI, Germany
- 9:30 – 10:00 **Towards new generation ISOL facilities: HIE-ISOLDE and EURISOL**  
Y. Blumenfeld – CERN, Switzerland
- 10:00 – 10:30 **The SPES project**  
G. Prete – INFN, Italy
- 10:30 – 11:00 **Present status of RIKEN RIBF**  
T. Motobayashi – RIKEN, Japan

11:00 – 11:20 *Coffee Break*

**FP7 SPIRAL2 Preparatory Phase Open Session**

*Chair: K. Turzó – GANIL, France*

- 11:20 – 11:40 **Goals and Organization of SPIRAL2 Preparatory Phase**  
M. Lewitowicz – GANIL, France
- 11:40 – 12:00 **International Status of SPIRAL2 and GANIL**  
S. Galès – GANIL, France
- 12:00 – 12:20 **SPIRAL2 Scientific Events**  
W. Catford – Univ. Surrey, UK
- 12:20 – 12:40 **New Detectors for SPIRAL2**  
A. Maj – COPIN, Poland
- 12:40 – 13:00 **European Activities linked to the SPIRAL2 LINAC**  
F. Negoita – IFIN-HH, Rumania
- 13:00 – 13:20 **European Activities linked to the Production of RNB at SPIRAL2**  
L. Tecchio – INFN, Italy

13:20 – 15:00 *Lunch*

Wednesday January 28<sup>th</sup>, 2009 - Afternoon

**Safety**

*Chair:*

15:00 – 15:25 **General Presentation: Safety Progress**

J. Sauret – GANIL, France

15:25 – 15:50 **Progress of Impact Studies**

M. Lambert-Wentzler – GANIL, France

15:50 – 16:15 **Radioprotection Aspects of Phase 1**

E. Pichot - GANIL, France

16:15 – 16:40 **Some Calculation Results for the Production Building**

M. Fadil – GANIL, France

16:40 – 17:00 *Coffee Break*

17:00 – 18:30 **Poster Session**

19:30 *Dinner*

Thursday January 29<sup>th</sup>, 2009 - Morning

**Parallel Meetings / Open Joint Session of GANIL Scientific Council and SPIRAL2 SAC – 1**

*Chair: A. Aprahamian, Univ. Notre Dame, USA*

- 8:50 – 9:00 **Welcome Address**  
S. Galès – GANIL, France
- 9:00 – 9:20 **General Status report**  
S. Galès – GANIL, France
- 9:20 – 9:40 **SISSI2**  
P. Anger – GANIL, France
- 9:40 – 10:00 **Beam developments for SPIRAL1**  
P. Jardin – GANIL, France
- 10:00 – 10:15 **GANIL 2015 – Report from the Core Group**  
P. Butler – University of Liverpool, UK
- 10:15 – 10:25 **GANIL 2015 – Report from the Forward Look Forum**  
B. Blank – CENBG, France
- 10:25 – 10:35 **GANIL 2015 – Report from the Technical Advisory Committee**  
F. Chautard – GANIL, France
- 10:35 – 10:45 **GANIL 2015 – General Discussion**
- 10:45 – 11:00 **AOB**
- 11:00 – 11:30 *Coffee Break*

**Open Joint Session of GANIL Scientific Council and SPIRAL2 SAC – 2**

*Chair: M. Harakeh, KVI, The Netherlands*

- 11:30 – 11:50 **ACTAR Status Report**  
R. Raabe – GANIL, France
- 11:50 – 12:10 **FAZIA Status Report**  
R. Bougault – LPCCaen, France
- 12:10 – 12:30 **NFS Status Report**  
X. Ledoux – CEA/DAM, France
- 12:30 – 12:50 **S<sup>3</sup> Status Report**  
H. Savajols – GANIL, France
- 13:00 – 14:30 *Lunch*

Thursday January 29<sup>th</sup>, 2009 - Afternoon

**Open Joint Session of GANIL Scientific Council and SPIRAL2  
SAC – 3**

*Chair: M. Harakeh, KVI, The Netherlands*

- 14:30 – 15:00 **DESIR Technical Proposal**  
D. Lunney – CSNSM, France
- 15:00 – 15:30 **EXOAM2 Technical Proposal**  
G. de France – GANIL, France
- 15:30 – 16:00 **GASPARD Preliminary Technical Proposal**  
D. Beaumel – IPNO, France
- 16:00 – 16:30 **PARIS Preliminary Technical Proposal**  
A. Maj – COPIN, Poland

16:30 – 17:00 *Coffee Break*

**Spectrometers for RNB at SPIRAL2**

*Conveners: A. Maj – IFJ PAN, Poland*

*F. Azaiez – IPNO, France*

- 17:00 – 17:30 **Overview of experimental aspects "key experiments" with  
SPIRAL2 beams**  
A. Gadea – CSIC-IFIC, Spain
- 17:30 – 17:40 **Need and plans for a recoil filter detector at SPIRAL2**  
P. Bednarczyk – IFJ PAN Krakow, Poland
- 17:40 – 18:20 **Discussion**
- 18:20 **End of the Conference**