

# LNS User Meeting 15/12/2014

## **Members of the user committee (2015-2016):**

Enrico De Filippo – INFN sez. Catania (coordinator of the user group)

Silvio Cherubini - INFN - LNS and Catania University

Marco Circella – INFN sez. Bari

Chiara Nociforo - GSI Darmstadt

Gabriele Pasquali – INFN sez. Firenze

Last User committee election was on december 2014

Next Renewal : december 2016

### From regulations:

*The Users Committee of the Laboratori Nazionali del Sud discusses the development proposal of the Laboratory and the technical-administrative and logistical problems of the users.*

This year the User Committee has supported the organization of the HIB workshop on high intensity cyclotron beams

## **Suggestions and information from the users comes from:**

- 1) Direct contacts of users with committee members or the coordinator**
- 2) End of run forms**

**Generally they are reported to direction (through the LNS «consiglio di laboratorio») or to the heads of involved divisions or to the users support service (currently D. Santonocito). Often, not complex problems can be resolved easily in this way.**

The end-of-run form is the best way to maintain the database of users (at least for users of the accelerators) line and improve the LNS “efficiency”

Generally we receive a good number of «end of run» forms from users of the accelerators but only if the compilation and sending of the form is kindly «pushed» by e-mail (i generally do this periodically for cyclotron users)

# Activity at the Cyclotron November 2014-December 2015 (after Helium liquefier stop)

**In red: end of run form available**

## Nuclear physics

<b>Fazia test (2014)</b>	<b>Ciclope</b>
<b>CLIR</b>	<b>CHIMERA</b>
RAINBOW	MAGNEX
<b>O16-Magnex</b>	<b>MAGNEX</b>
DRIP_LINES	MAGNEX
<b>ISOFAZIA</b>	<b>Ciclope</b>
Fazia test	Ciclope
SIKO	CHIMERA
<b>PIGMY</b>	<b>CHIMERA</b>
FAZIA-Sym	Ciclope

## Interdisciplinary physics

MAPRAD	0°
RADIOSTEM	0°
<b>HADMAC</b>	<b>0°</b>
DNA-BRAGG	Catana
PRIMA	Catana
MIMOBRAAG	0°
IONMAPS	0°
<b>REDOLIB</b>	<b>0°</b>
PIRAMIDE	0°
WP1-BIO	0°
<b>IRSIDIA</b>	<b>0°</b>
DIAPIX	0°
MITRA	0°
DOPET	Catana
ELIMED	40°
<b>ARDENT</b>	<b>Catana</b>
<b>PREDATE</b>	<b>Catana</b>
TERASPARC	Ciclope

2015 report

Schedule	Time preparation	Electronic LNS pool	Requested module available	Acq LNS used	Beam on target	Reason for beam lost	Time to dismount	Need LNS service	Support satisfaction	Guest house
yes	yes	no		no	100%		yes	yes	yes	Nice, noisy
yes	yes	yes	yes	no	70%	Experiment	yes	yes	yes	Longer stay required
yes	yes	no		Partial	90%	Beam tests		yes	yes	fine
yes	yes	no		no	60%	Experiment	yes	no		
yes	yes	yes	yes	no	90%	Beam unstable	yes	yes	yes	clean
yes	yes	no		no	60%	Experiment tasks	yes	yes	yes	perfect
yes	no	yes	yes	no	70%	Beam unstable	yes	yes	yes	Good. No laundry
yes	yes	no		no	80%	Source problems and exp.	Yes	yes	yes	fine

Schedule	Time preparation	Electronic LNS pool	Requested module available	Acq LNS used	Beam on target	Reason for beam lost	Time to dismount	Need LNS service	Support satisfaction	Guest house
yes	yes	yes	yes	Yes	80%	Sources	yes	yes	yes	good
yes	yes	yes	yes	Yes	90%	Source intensity		yes	yes	good

### General considerations on comments and problems:

On beams: effort must be done for the improvement of the sources intensity, in particular for FRIBS beams

On acquisitions rooms: O° not comfortable and noisy for long experiments  
 Magnex room small and very crowded when there are a lot of participants  
 Lack of chairs in Ciclope daq. room (resolved ?) and furniture (resolved) in Ciclope chamber.  
 Problem of rain inside the daq rooms and 2nd distribution [heavy rain] (resolved ?)  
 Problems for preparation, starting vacuum and tests in Chimera when Magnex is working

On guest house: Generally very nice. Some difficulty to pay (resolved?).  
 Few lack of services.

# PROGRAM

14:30 - 14:50	G. Cuttone	Communications and news from LNS director
14:50 - 15:00	E. De Filippo	News from user committee
15:00 – 15:20	D. Rifuggiato	Status of the accelerators and news for the users
15:20 – 15:40	S. Romano	The Research Division activity at LNS
15:40 – 16:00	A. Pagano	Summary and report on HIB workshop

## **Coffee break 16:00 - 16:20**

16:20- 16:40	P.P. Figuera	Low energy reactions mechanism studies with weakly bound nuclei at LNS
16:40 – 17:00	F. Romano	News on irradiations beam line and new projects in in-vivo experiments
17:00 – 17:20	P. Migliozi (INFN-Napoli)	Activities and news in 2015 for Km3Net project
17:20 – 17:40	M. La Cognata	Activities and news from ASFIN group
17:40 - 18:xx : Open Discussion and brief contributions from users (5 minutes, 3,4 slides): problems to be raised for the User Committee and LNS direction, new projects, ideas, communications, etc., Talks : 15 min + 5 discussion		

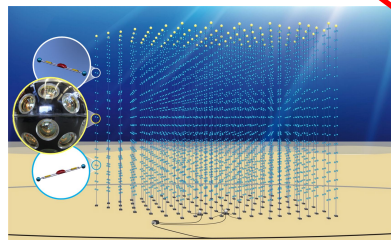


The **User Committee** has supported the organization of the HIB workshop on high intensity cyclotron beams

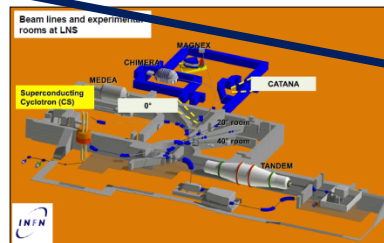
*The Users Committee of the Laboratori Nazionali del Sud discusses the development proposal of the Laboratory and the technical-administrative and logistical problems of the **users** that belong to different communities following the research directions of LNS:*



Physics with  
accelerators:  
Nuclear physics



Km3Net, neutrino physics  
INFN group II physics



Interdisciplinary physics  
Catana beam line  
0° beam line, irradiation

## Nuclear physics with cyclotron in 2015

(interdisciplinary not included)

**CLIR (FRIBS)**

**RAINBOW**

**O16-Magnex**

**DRIP\_LINES**

**ISOFAZIA**

**Fazia test**

**SIKO**

**PIGMY (FRIBS)**

**FAZIA-Sym**

**CHIMERA**

**MAGNEX**

**MAGNEX**

**MAGNEX**

**Ciclope**

**Ciclope**

**CHIMERA**

**CHIMERA**

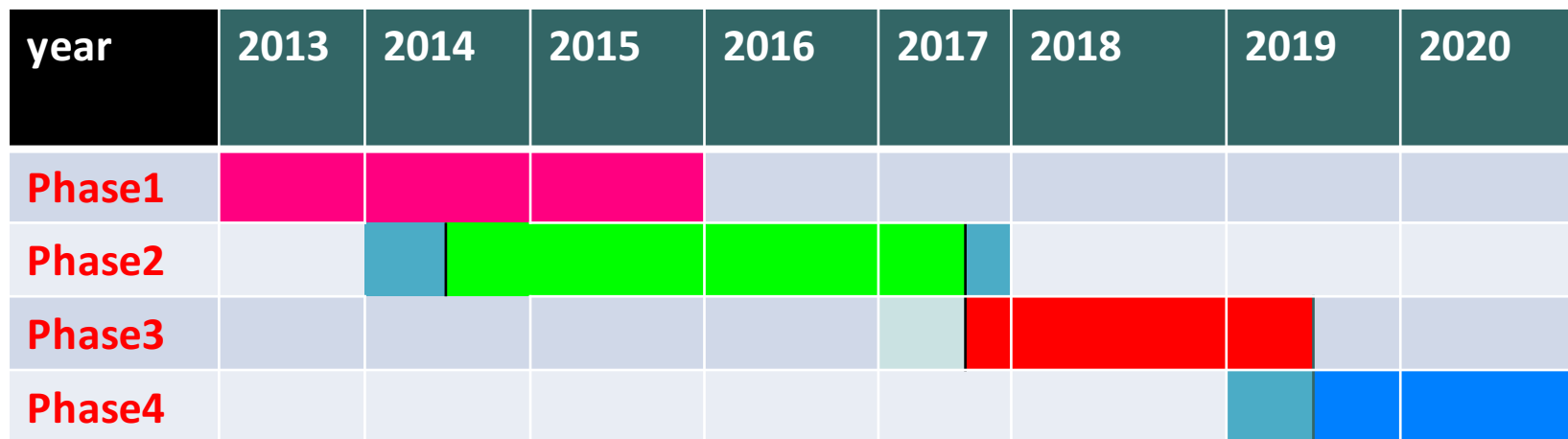
**Ciclope**



Possibility to enlarge the cyclotron users community  
(new detectors, coupling of existing detectors) ?

Consequences in infrastructures: improvements on ECR  
sources, beam lines, detectors? New man-power ?

Consequences on research: cyclotron stopping



See Alessandra Calanna talk