

Activity of the USER GROUP IN 2013

Election: 6-12 December 2012

New members:

E. De Filippo – INFN sez. Catania (coordinator of the user group)
Antonio Capone - INFN, Sez. Roma and Roma "La Sapienza" University
Silvio Cherubini - INFN - LNS and Catania University
Nicolas Le Neindre - CNRS and Caen University
Vincenzo Patera - Roma "La Sapienza" University"

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.

The user list database has around 530 names (last general revision end of 2012).

Anyway at last elections in 2012 active “electors” were 106

END OF RUN FORMS

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”

Anyway the end-of-run is compiled generally only if **strongly** triggered from users group coordinator and in same case it is difficult to follow some experiments (like the irradiation ones) that are connected among them and are relative to few beams BTUs (one day or less).

General problems in 2013:

Some logistic problems with irradiations beams: small biolab, difficult to work for experiments planned in close proximity. Longer stay in guest house for irradiation experiments.

Rain in some acquisition halls, difficulties at LNS entrance.

The largest part of forms agree on the quality of the support offered by the LNS technical staff

Some statistics 2013 (mainly cyclotron up to May 2013)

Schedule	Time preparation	Electronic LNS pool	Requested module available	Acq LNS used	Beam on target	Reason for beam lost	Time to dismant	Need LNS service	Support satisfaction	Guest house
yes	yes	no		no	50%	Experiment problems	yes	yes	yes	Fine
yes	yes	no		no	100%		yes	yes	yes	
yes	yes	yes	yes	no	70%	Experiment	yes	yes	yes	Longer stay required
yes	no	no		no	100%		yes	yes	yes	Very good
yes	yes	yes	yes	no	70%	Experiment	yes	yes	yes	Longer stay required
yes	yes	yes	yes	no	100%		yes	yes	yes	
yes	yes			yes	90%			yes	Some problems	
yes	yes			yes	90%			yes	yes	

NEW INITIATIVES : launch a general questionnaire (survey)

The questionnaire is ready (thanks to Paolo Finocchiaro for implementing it in the LNS web site) but the survey is not yet started (January 2014 should be ok?).

LNS questionnaire 2013 - Online survey about present and future LNS activity and needs

Please fill in this form, answer the captcha image test, and then click on the send button.
In case of problems please cut-and-paste the whole error message and e-mail it to the [webmaster](#).

Thanks for your cooperation.

Short description of your research activity



Research field

Nuclear Physics☐

Astroparticle Physics☐

Biophysics☐

Hadrontherapy☐

Environment and cultural heritage☐

Theoretical physics☐

R&D and applications☐

other☐

Used LNS facility

Tandem☐

Cyclotron☐

Injector 450kV☐

NEMO lab harbour☐

NEMO lab Portopalo☐

other (specify)

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Exploited LNS services

Please indicate your degree of satisfaction: 1 (not satisfactory) to 5 (fully satisfactory)

Workshop	Electronics	Computer centre
--not used--	--not used--	--not used--
Data Acquisition	Vacuum	Library
--not used--	--not used--	--not used--
LNS store	Guest's house	
--not used--	--not used--	

Planned LNS facility to be used in the next 3 years

Tandem	☐
Cyclotron	☐
Injector 450kV	☐
NEMO lab harbour	☐
NEMO lab Portopalo	☐
other (specify)	☐

Other lab

Do you plan to apply to another lab in the next 3 years?

☐ Yes

☒ No

If YES, please specify where

Why does the facility offered elsewhere better fulfills your needs?

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**You have done (or plan to do) an experiment at LNS.
Specify the relevant comments for the following.**

Beam energy	
Intensity / time structure	
Available devices/apparatuses	
Available beams	
Beam time from PAC	
Support of local users/services	
Caves / Infrastructures	
Other	

General stuff

Do you read LNS News?

☒ Yes ☐ No

Comments/suggestions

Have you ever filled in
the End-Of-Run sheet?

☒ Yes ☐ No

Comments/suggestions

General comments (new services, infrastructures, needs, etc...)

Your name

e-mail

Institution

Country

--Please select--

FROM LNS-NEWS to FACEBOOK or both?



INFN - Laboratori Nazionali del Sud



Giovanni Colucci
INFN Director



In these first months Superconducting Cyclotron beam has been steadily delivered for experimental activity, while major maintenance and improvement of the performance of the Tandem accelerator were successfully performed.

Important agreements were signed with MIT and the ELI. The wide experience in the field of accelerators at LNS was the basis of the agreement signed with MIT to participate in the experiment DEAMALIS.

A Memorandum of Understanding between LNS and the ELI (Extreme Light Infrastructure) of Prague, has been signed. This MoU officially establishes the European ELIMED project whose main aim is the realization of a facility dedicated to Medical Physics studies with the charged particle

beams produced in the interaction of high power lasers with the matter for therapeutic use.

LNS is also strongly involved with the ion sources group in the design update of the Linac for the European Spallation Source in Lund.

Protontherapy cycles devoted to the melanoma treatment continue regularly.

LNS are also actively engaged in dissemination of scientific research. On January took place the third edition of the "Coffee-Meeting" aimed primarily at university students of the department of physics and astronomy for the presentation of research topics for their thesis.

A huge success was the event called "Explorers of the Invisible" with the participation of over 1500 students from schools in Sicily.



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Education

INFN - Laboratori Nazionali del Sud
INFN LNS Nuclear Physics Laboratory Catania
<http://www.lns.infn.it/>

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3 hours ago

Programma giornata 6 dic 2013 - Sala Azzurra LNS
Comitato Utenti LNS

[See Translation](#)

9:00 G. Cuttone: "Welcome, LNS status" 15 min + (5 discussion)

9:20 E. De Filippo: "User Committee news" 10 min

9:30 D. Rifuggiato: "Status of the accelerators" 20 min

9:50 L. Calabretta: "A test site for high power cyclotron for fundamental physics and radioisotope production" 20 min

10:10 longer discussion, questions and comments on last talks (20 min). Possible brief contributions with 3 slides from users)

10:30 G. Cardella: "fragmentation beams developments: cryogenic target proposal" (15 + 5)

10:50 Coffee break

11:10 C. Di Stefano: Nemo and K3Net (20 + 5)

11:35 F. Cappuzzello: MAGNEX@LNS: present activity and future challenges (20+5)

12:00 F. Romano: Multidisciplinary irradiation beam line (20+5)

12:25 P. Finocchiaro: Radioactive wastes: detectors and systems development at LNS (20 + 5)

12:50 S. Cherubini: Nuclear astrophysics at LNS: status and perspectives (15+5)

13:10 Discussion on previous talks, on prospectives, LNS future opportunities, Ensar status, various. Possible brief contributions with 3 slides from users.

13:30 End of the meeting