

LNL USER COMMUNITY ANNUAL MEETING

21 November 2017 *INFN Laboratori Nazionali di Legnaro*
Europe/Rome timezone

Overview

Scientific Programme

Timetable

Registration

Registration Form

List of registrants

The LNL User Board announces the Annual LNL Users' Meeting in Sala Villi at LNL on Tuesday November 21st.

In this occasion, with the help of the director, the head of the acceleration division, the head of the User's Services and the beamtime coordinators, we will summarize the activity of the past year and present the future activity, also related with the upcoming SPES project.

Dates: 21 November 2017 (09:30-17:30)

Timezone: Europe/Rome

Location: *INFN Laboratori Nazionali di Legnaro*
Viale dell'Università 2, Legnaro (PD) - Italy
Room: Villi Conference Room

Chairs: [LNL Users Board](#)

<https://www.youtube.com/watch?v=nqCVrQq2roU>

LNL USER BOARD AND LNL USER COMMUNITY

The **LNL User Board** is an **advisory committee of the LNL Director**.

Its role is to discuss the **progress of ongoing programs at the laboratory**, including technical, administrative and logistical problems of the user. It acts as an **interface between the user community and the direction of the LNL** laboratories, monitoring the users' experiences and recommending possible changes to the LNL direction.

The **LNL User Community is composed of all the researchers**, accelerator physicists and engineers utilising the ion beams accelerated by the LNL accelerator complex and in general the research infrastructures of the laboratories.

The **LNL User Community elects, among its members, a User Board** composed of seven members. Members of the LNL-UB are also the **accelerators' coordinators and the responsible of the User Service** of the laboratories. The LNL-UB is elected for **three years and can be re-elected only once**. The LNL-UB designates, among its members, a Coordinator. The Coordinator calls and convenes the LNL-UB and the User Community meetings.

The LNL User Community will meet in a **User Community meeting at least once per year**.

The LNL-UB, represented by its Coordinator, has the duty to inform the LNL Users Community about the results of the User Community meetings and about the initiatives of the LNL. To this purpose, a deputy of the LNL-UB, usually the Coordinator, is **invited by the Director to attend the LNL council meetings as an observer**.

LNL USER BOARD (May 2016 → May 2019)

Name	Institution	Role
G. Benzoni	INFN - Milano	Chair of the User Board
D. Bisello	Padua University and INFN	User Board member
G. Maggioni	INFN - LNL and Padua University	User Board member
T. Marchi	IKS - KU Leuven	User Board member
D. Mengoni	Padua University and INFN	User Board member
D. Pierroutsakou	INFN of Naples	User Board member
E. Vardaci	University and INFN of Naples	User Board member
M. Mazzocco	Padua University and INFN	Tandem-Alpi-Piave Coordinator
V. Rigato	INFN - LNL	AN2000 and CN Coordinator
E. Fioretto	INFN - LNL	LNL User Service responsible

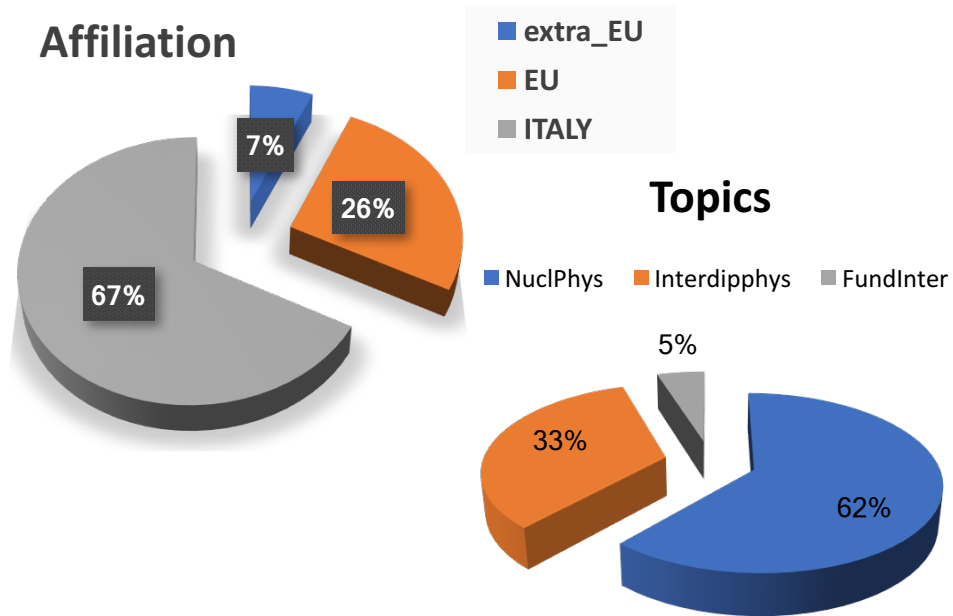
Contacts

WEB SITE: <http://www.lnl.infn.it/index.php/en/>

- ✓ Registration
- ✓ Minutes of meetings
- ✓ News
- ➔ Useful documents for the Users

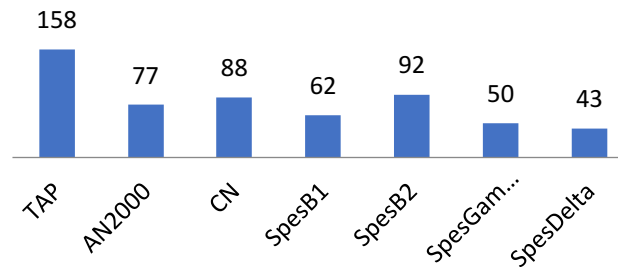
Distribution LIST: users_lnl@lists.infn.it
 Contact E-mail: lnluser@lnl.infn.it

LNL USERS (based on 226 subscriptions)



LNL Facilities of interest

(multiple answer was possible)



Few new subscribers since last election (May 2016)
 Subscribers mainly involved with TAP (70%)

User Board activity during first year:

- ✓ Meeting with director every ~2 months
- ✓ Fruitful extended discussions together with accelerator division, beam-time coordinators and research division
- ✓ Involved in the discussion about the future installation of Active Target
- ✓ End of experiment reports

- ✗ Still missing: enrollment of User Board in the LNL distribution list
- ✗ Participation to LNL council meeting

LNL laboratories in 2017:

- Last PAC meeting Feb. 13-14 → 35 (28PAC+7USIP) approved days / 169 (136PAC+33USIP) requested days
- Performed experiments in 2016/2017 : 38 PAC (23+15) + 12 USIP (6+6)
- Backlog TAP 100 days

- USIP meetings Feb. 17 - Oct. 19 : AN2000 106 days requested / CN 68 days requested
- June-July AN2000 technical issues
- Beam-time schedules fixed for Oct-Feb 2018

- SPES cyclotron commissioned
- SPES installation on-going to provide first beams at the end 2019 and post-acceleration in 2021

End of experiment report: Jan. 2017/Sept. 2017

CN	AN 2000	TANDEM-XTU	TANDEM-ALPI	PIAVE-ALPI			
Exp.ID	Beam request	Dates	Remarks	Exp.ID	Beam request	Dates	Remarks
10B/ TELITA Test of Lithium Targets for Astrophysics	4He++ 7-9 MeV 1-10 nA	15-17 February 2017	- Precise measurement of beam energy and 4He++ integrated charge not possible: 1. H2+ contamination always present	Byzantine_ceramics Compositional investigations of Byzantine ceramics using LNL nuclear	H+ 2 MeV 4 nA	8-14 March 2017	excellent technical support of the local team
RADAR RADiation hARdness and property modulation of superconducting and oxide materials by means of proton and light-ion irradiations	p 3.5 MeV 30-40 nA					8 March 2017	Setup of the Ni beam was particularly long, ==> initial incorrect parameter selection, wrongly reported in the log system. Solved by the operators.
RADAR	p 3.5 MeV 30-40 nA	20-21 April 2017	- h24 operation mode - beam stable	Tera-SeU Test of the SEU tolerance of the Tera_v5 ASIC for hadron therapy dose measurement	Ag, Ni, Si, O, Br, Cl, F 122-126 MeV variable intensities ==> Ag beam not delivered	10-11 March 2017	
ALCHIMIA Analysis of Light and CHarge Induced by Micro Ion beAms	p 2 MeV 500 pA	29-31 May 2017	- Beam current not reliable - new software of the microbeam control to be optimized				
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LTUSS Nanomaterials for Energy							
DiaFab Diamond microfabrication with ion beam lithography	400 nA 2 nA microbes		current set-up is not properly optimized. New microbeam control software shows significant improvement				

- Precise measurement of energy and charge
- ⁴He beam contaminated by ²H

- Beam current measurement not reliable
- Positive feedback for new microbeam control system

- Ask collaboration to beam-time coordinators and exp. arrays coordinators to distribute and collect the reports

➔ Suggestions for improvements ←

Survey of main TAP users to assess impact of the long shutdown on research activity

SALA I	SALA II	SALA III				
NOME ARRAY Referente	SALA	status	proposal ultimi 2 anni	pubblicazioni	investimenti e progetti	solo tandem??
EXOTIC Pierrousakou/Mazzocco (Na/Pd)	I	presa dati	5	5	altri 5 proposal nei prox due anni	ok
RADIOBIOLOGY Cherubini (LNL)	I	presa dati	4	3	Proseguimento e completamento del piano di misure previsto e sua eventuale estensione.	necessita di ALPI
PRISMA Corradi/Fioretto (LNL)	I	upgrade/presa dati	5	8	attivazione secondo braccio e sistema di rivelazione con LaBr3	forte richiesta per PIAVE
SIRAD Wyss/Bisello (multiutenza)	I	presa dati	40 gg di fascio	13	SIRAD è un riferimento per studio degli effetti delle radiazioni su elettronica rivelatori e	
GAMPE Benzoni/Melon (Mi/Fi)						
MAGNETIC Nannini (Fi)						
PISOLO Stefanini/Montagnoli (LNL/Pd)					sostituiti. Nuova camera a ionizzazione a risposta veloce in fase di test.	OK
GALILEO Mengoni/Recchia/Valiente Dobon (Pd/LNL)	II	presa dati	40	5	upgrade e stop operazioni in 2018. Ripresa attivita' nel 2019	
LIRAS Soic (Zagreb Hr)	II	presa dati	1	0	non hanno ancora potuto fare turni	richiesta TANDEM+ALPI
TRAPRAD/FRANCIUM/ WADE Calabrese/Mariotti/ Tomasetti (Si/Fe)	II	presa dati	2	4		OK

- Possibility of keeping TANDEM as alive as possible
- Some activities might be severely affected
- Some arrays are in stand-by owing to not availability of requested beams

LNL USER COMMUNITY ANNUAL MEETING PROGRAMME

TIME	TITLE	SPEAKER
10:00-10:10	Welcome and News from UserBoard	G.BENZONI
10:10-10:15	EURISOL-DF initiative	S.PIRRONE
10:15-10:45	News from Director	D.BETTONI
10:45-11:10	Status of TAP and SPES installation	G.BISOFFI
11:10-11:35	News from TAP beamtime coordinator	M.MAZZOCCO
11:35-12:15	Status of accelerators and experimental program at AN/CN complex	V.RIGATO
12:15-12:25	Report from Service Division	E.FIORETTO
12:25-12:40	ENSAR2 program	M.CINAUSERO
12:40-13:00	DISCUSSION	

TIME	TITLE	SPEAKER
14:30-15:15	Report from experiments	
15:15-15:30	DISCUSSION	
15:30-17:30	Closed USER BOARD meeting	

TIME	ARRAY
14:30-14:35	GALILEO (Recchia)
14:35-14:40	PISOLO
14:40-14:45	PRISMA
14:45-14:50	EXOTIC
14:50-14:55	GARFIELD
14:55-15:00	SIRAD
15:00-15:10	NEW SPES INSTALLATIONS