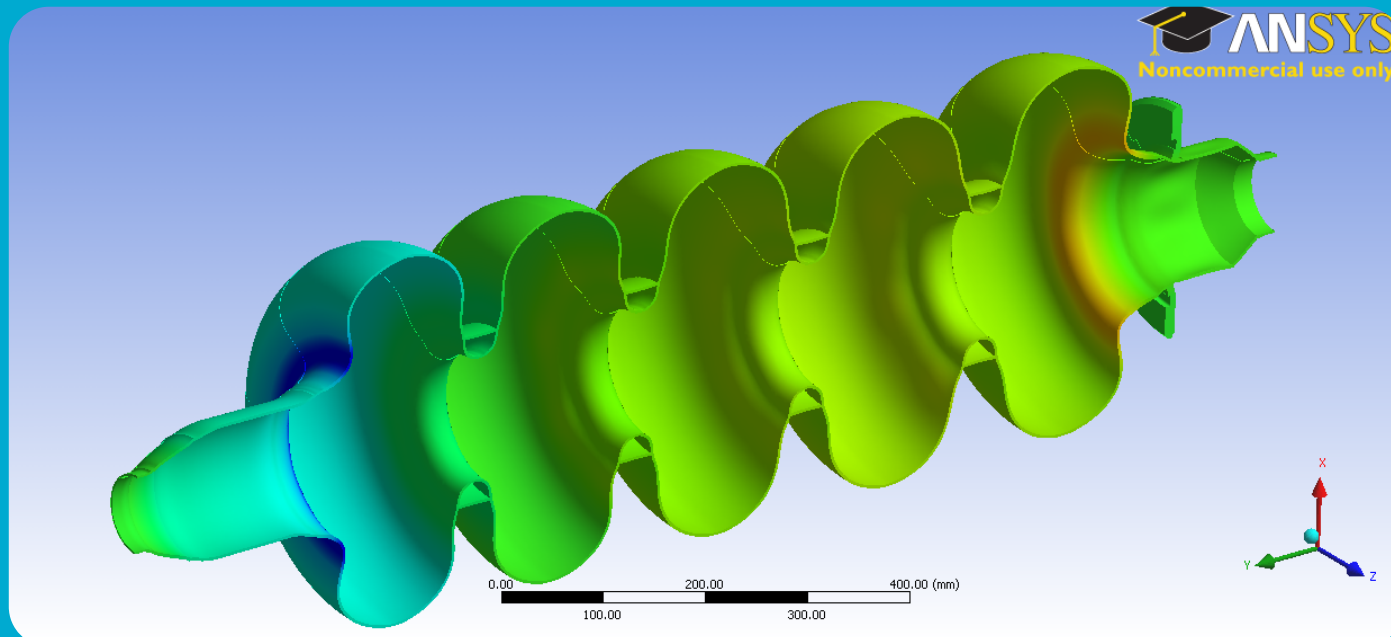


Meeting goals and organization

F. Gerigk

First Open Collaboration Meeting on Superconducting Linacs for High Power Proton Beams (SLHiPP-1)

8/9 December 2011, CERN



Meeting goals

- inform about technical developments of SC proton/H-linac projects world-wide,
- **report on recent technical achievements and project progress,**
- **keep the project status reports to a minimum because these are repeated at conferences/workshops...**
- there are no proceedings,
- update and enhance collaborations,
- prepare and guide future work and future events.

Meeting history & future

- The SLHiPP meeting is the successor of the SPL collaboration meeting, which started in Dec. 2008.
- In 2010 we had the first Joint Meeting with ESS, which was repeated in 2011.
- Since then one meeting is organized by CERN and the next one by ESS with a 6-month distance,
- This is the 7th meeting and we usually meet the same people at various other collaboration meetings, workshops, etc.
- **Suggestion:**
 - have one “common” meeting per year, (ESS, SPL, Project X, ...) and have in addition project-internal meetings,
 - focus on technical progress rather than status reports, etc.
- **SLHiPP-2:** 3-4 May 2012, Catania, Italy.

Thursday morning: Filtration Plant

Plenary
R. Garoby

**SC cavity
design &
manu-
facturing**
O. Capatina

Status and Plans of SPL R&D	<i>GAROBY, Roland</i>
<i>Filtration Plant, CERN</i>	09:00 - 09:20
Organisation and goals of the meeting	<i>GERIGK, Frank</i>
<i>Filtration Plant, CERN</i>	09:20 - 09:40
Project X	<i>MISHRA, Shekhar</i>
<i>Filtration Plant, CERN</i>	09:40 - 10:05
Cavity qualification for the 12 GeV project	<i>STIRBET, Mircea</i>
<i>Filtration Plant, CERN</i>	10:05 - 10:30
Coffee Break	
<i>CERN</i>	10:30 - 11:00
Design of SPL beta=1 cavity and helium tank	<i>CAPATINA, Ofelia</i>
<i>Filtration Plant, CERN</i>	11:00 - 11:30
Material studies for SPL cavities at CERN	<i>ARNAU IZQUIERDO, Gonzalo</i>
<i>Filtration Plant, CERN</i>	11:30 - 11:45
Manufacturing R&D for SPL beta=1 cavities at CERN	<i>ATIEH, Said</i>
<i>Filtration Plant, CERN</i>	11:45 - 12:00
Manufacturing parameters for beta=1 cavity mock-up	<i>VALVERDE ALONSO, Nuria</i>
<i>Filtration Plant, CERN</i>	12:00 - 12:15
Status of CERN EP station	<i>MARQUES ANTUNES FERREIRA, Leonel</i>
<i>Filtration Plant, CERN</i>	12:15 - 12:30

Thursday afternoon: Pump Hall

**SC cavity
design ..**

O. Capatina

**RF sources
& beam dyn.**

O. Brunner

SM18

O. Brunner

Beta=1 cavity development for SPL at BNL	<i>CALAGA, Rama</i>
<i>Salle polyvalente PUMP HALL, CERN</i>	14:00 - 14:20
Magnetrons	<i>DEXTER, Amos et al.</i>
<i>Salle polyvalente PUMP HALL, CERN</i>	14:20 - 14:40
LLRF for the SPL SC cavities	<i>HOFLE, Wolfgang</i>
<i>Salle polyvalente PUMP HALL, CERN</i>	14:40 - 15:00
SPL beam dynamics	<i>POSOCCO, Piero Antonio</i>
<i>Salle polyvalente PUMP HALL, CERN</i>	15:00 - 15:20
ESS beam dynamics	<i>ESHRAQI, Mohammad</i>
<i>Salle polyvalente PUMP HALL, CERN</i>	15:20 - 15:40
Coffee Break	
<i>CERN</i>	15:40 - 16:10
Visit of SM18	
<i>Olivier Brunner CERN</i>	16:10 - 17:10

Friday morning: Filtration Plant

SC cavity tests
O. Brunner

Results on cavity simulations and measurements	<i>MIKULAS, Szabina</i>
<i>Filtration Plant, CERN</i>	09:15 - 09:35
Diagnostics for SPL cavities	<i>LIAO, Kitty</i>
<i>Filtration Plant, CERN</i>	09:35 - 09:50
Dumbbell measurements	<i>SCHWERG, Nikolai</i>
<i>Filtration Plant, CERN</i>	09:50 - 10:10
Bead pull test bench & multipacting of HOM couplers	<i>AINSWORTH, Rob</i>
<i>Filtration Plant, CERN</i>	10:10 - 10:30
Various approaches to electromagnetics field simulations for RF cavities	<i>LIU, Cong</i>
<i>Filtration Plant, CERN</i>	10:30 - 10:45
Coffee Break	
<i>CERN</i>	10:45 - 11:15
Recent fundamental power coupler designs and tests	<i>MONTESINOS, Eric</i>
<i>Filtration Plant, CERN</i>	11:15 - 11:45
Cleaning of fundamental power couplers (JLAB)	<i>STIRBET, Mircea</i>
<i>Filtration Plant, CERN</i>	11:45 - 12:15
Linac4 TaCo (tuner adjustable coupler)	<i>UGENA TIRADO, Patricia</i>
<i>Filtration Plant, CERN</i>	12:15 - 12:30

Power couplers
E. Montesinos

Friday afternoon: Filtration Plant

**Cryo-
module
design**
V. Parma



ESS cryo-module strategy	<i>DARVE, Christine</i>
<i>Filtration Plant, CERN</i>	14:00 - 14:30
Summary of cryo-module review	<i>PARMA, Vittorio</i>
<i>Filtration Plant, CERN</i>	14:30 - 15:00
Coffee Break	
<i>CERN</i>	15:00 - 15:30
ESS Status	<i>MC GINNIS, David</i>
<i>Filtration Plant, CERN</i>	15:30 - 15:50
ESS accelerator design update	<i>GYSIN, Suzanne</i>
<i>Filtration Plant, CERN</i>	15:50 - 16:10
Summary of cavity construction	<i>CAPATINA, Ofelia</i>
<i>Filtration Plant, CERN</i>	16:10 - 16:30
RF summary	<i>BRUNNER, Olivier</i>
<i>Filtration Plant, CERN</i>	16:30 - 16:50
Conclusions	<i>GAROBY, Roland</i>
<i>Filtration Plant, CERN</i>	16:50 - 17:05

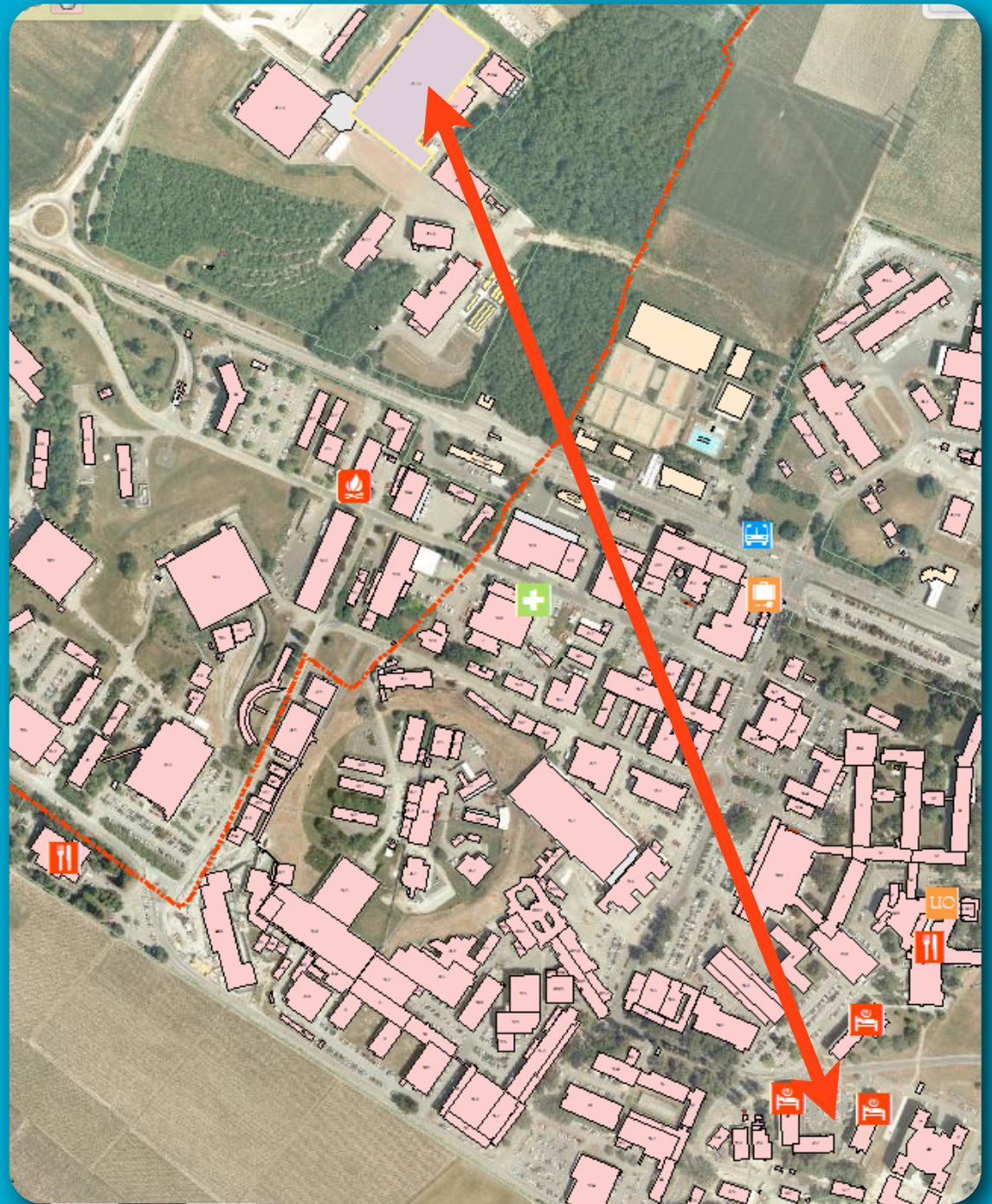
**Summaries
Conclusions**
F. Gerigk



Today: SMI8 tour (RF test stand)

starts: 4:10 pm in
front of the lecture hall,

ends: back at CERN
~5:45 pm.



no-host dinner

- **location:** Auberge de Meyrin, Avenue de Vaudagne, 13 bis
- **time:** tonight, 7:00 pm
- **price:** 36-38 CHF (30 €, 40 \$) to be paid at the restaurant, welcome drink and beverages paid by CERN
- **how to get there:**
 - Tram 18 (CERN - Meyrin village) 3 stops + 5 minutes on foot. Tram leaves at 6:32 pm, 6:44 pm and takes 4 minutes. You need to have 2 CHF for the ticket (machine does not change). As ticket choose “short trip”/”saut de puce”.
 - walking distance: ~20 minutes

no-host dinner



CERN airport shuttle service

~15 min (Monday - Friday)

Bldg 500  airport

Bldg 500	
08h	00 55
09h	45
10h	55
11h	45
12h	45
13h	45
14h	45
15h	55
17h	0
18h	0
19h	0

