



Outcome...

R. Garoby – 9/12/2011

**First open collaboration meeting on
Superconducting Linacs for High Power Proton
Beams (SLHiPP-1)
December 8-9/2011 CERN**



Lots of useful information

- From Project-X, SNS, Jlab and ESS, sharing essential knowledge and know-how.
- About the work going on for the SPL, highlighting that we are now facing the “real” world and addressing hardware issues.
- With new and dynamic contributors showing that sc RF technology is effectively resurrecting at CERN!
- Excellent talks and lively discussions, both within the auditorium and in corridors

Thanks to all of you!



Near future

... Highlights:

- Continuation of tests with single cell cavity / practice with HPWR and EP facilities...
- Practice with Cu cavity...
- Follow-up of sc cavities fabrication in industry
- Start of fabrication of an sc cavity at CERN
- Follow-up of klystron and modulator orders...
- Continuation of work on RF power coupler (**Review in 2012?**)...
- Specifications and order of components for SM18
- ...

See you reporting at the next SLHiPP meeting organized by ESS

[May 3-4, 2012 in Catania (Italy)]

or at IPAC12 (May 20-25, New Orleans) ,

or LINAC12 (September TelAviv),

or....

HAVE A GOOD WEEK END

AND

A SAFE TRIP BACK HOME!

Spares

- Construction of 4 cavities in industry
 - ⇒ **Niobium (finally!) delivered**
 - ⇒ **Fabrication contract signed**
- **Decision to build one additional cavity at CERN in 2012**
- Test of single cell sample cavity from CEA
 - ⇒ **In progress**
- Measurement and test with dumbbell cavity
 - ⇒ **In progress**
- Upgrade of cryogenics infrastructure
 - ⇒ **Planned in 2012**
- Order of 704 MHz klystron for SM18
 - ⇒ **Order signed in September 2011**
- Specification & order of klystron modulator from industry (ESS)
 - ⇒ **Specifications finalized**
 - ⇒ **Supplier selected / order being signed ?**
- Preparation of 704 MHz RF components (Low Level and High Power) for SM18
 - ⇒ **In progress**

We are in business!


with R & D on construction techniques

Signed !


SPL progress since July 2011

(2/2)

- Review of Cryomodule Conceptual Design on November 4, 2011
 - ⇒ **(Late but) done** - <https://indico.cern.ch/conferenceDisplay.py?confid=154284>
- Construction & test of High power RF couplers + Review
 - ⇒ **Couplers and coupling boxes built, but problem with Cu-plating**
 - ⇒ **High power RF tests started in Saclay**
 - ⇒ **Review delayed to the first quarter of 2012**
- Specification & construction of tuners and He tanks (CEA)
 - ⇒ **Delayed**
- LP-SPL CDR (jointly with PS2)
 - ⇒ **Delayed to 2012...**
- Organization of future meetings
 - ⇒ **Changed into "SLHiPP" open collaboration events**
 - ⇒ **December 2011 meeting organized (CERN) / May 2012 meeting announced (Italy)**



Extensive effort; good progress



Promising results!