



Meeting schedule and goals

R. Garoby – 25/11/2010

**Fifth SPL Collaboration Meeting
25-26 November 2010 / CERN**



Meeting Schedule (1/4)

Thursday 25, November- Morning

Introductory session

09:00 **Welcome** 05'

09:25 **SPL architecture & organisation of meeting** 15'

09:40 **Meeting goals** 15'

09:55 **Coffee break** 30'

10:25 **News from ESS** 25'

10:50 **JLab Plans for SRF developments** 25'

11:15 **Proton Accelerator Project at the Turkish Accelerator Centre** 25'

WG4 Beam dynamics

11:40 **Highly segmented SPL as a mixture of Doublet and FODO focusing** 15'

11:55 **H- stripping and consequences for the SPL, RF error studies** 20'

12:15 **Latest results of HOM simulations** 15'



Meeting Schedule (2/4)

Thursday 25, November- Afternoon

WG4 Beam dynamics

14:00 **Layout considerations based on passband modes** 10'

14:10 **SPL source R&D** 15'

WG1 RF systems

14:25 **High-power klystron and solid state amplifiers** 25'

14:50 **RF layout, LLRF and simulation results** 30'

15:20 **Coffee break** 30'

15:50 **Status of modulator tendering** 15'

16:05 **Status of klystron order and test stand preparations in SM18** 15'

WG2 SC cavities

16:20 **SPL cavities construction** 25'

16:45 **Status of EP at CERN** 15'

17:00 **Perspectives with new techniques of Nb coating** 15'

17:15 **Diagnostics for reception tests of SPL cavities** 15'



Meeting Schedule (3/4)

Friday 26, November - Morning

WG2 SC cavities

09:00 **Clean room refurbishment in SM18** 15'

09:15 **Magnetic shielding simulations for SPL cryo-module** 15'

09:30 **Status of SPL RF coupler development** 15'

09:45 **BNL activities on 704 MHz cavities** 15'

10:00 **SPL activities at CNRS-IPN-Orsay** 15'

10:15 **SPL activities CEA-Saclay** 15'

10:30 **Coffee break** 30'

11:00 **HOM coupler modelling for SPL** 15'

11:15 **Simulations and calculations of HOMs in strings of cavities** 15'

WG3 Cryogenics

11:30 **Work progress at CNRS-IPNO** 20'

11:50 **Mechanical studies of the cryo-module** 20'

12:10 **Specific ESS requirements for the high-beta cryo-modules** 20'



Meeting Schedule (4/4)

Friday 26, November - Afternoon

Status reports and summaries

14:00 **Status/Summary of WG4: beam dynamics** 20'

14:20 **Status/Summary of WG1: RF systems** 20'

14:40 **Status/Summary of WG2: SC cavities** 20'

15:00 **Status/Summary of WG3: Cryogenics** 20'

15:20 **Coffee break** 30'

15:50 **Discussion about the nature of future meetings** 30'

16:20 **Conclusions and schedule of future meetings** 30'

16:50 **Tour of Linac4** 1h00'



Meeting Goals

- to inform about the status and plans of the sc linac projects world-wide,
- to hear about recent technical achievements, and check the overall technical progress with respect to expectations,
- to guide future work (priorities, distribution of tasks...),
- to update and enhance collaborations,
- to organize the future events coherently with other projects (meeting(s), workshops etc.).

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**Summary will be published at the
beginning of 2011**



Collaboration issues

Need to converge with ESS on technical issues

- 704 MHz klystron for the SM18 test place
- specifications of short prototype cryomodule
- specifications of klystron modulator for the SM18 test place
- finalization of addendum to the ESS-CERN collaboration agreement



Signature of addendum on December 9, 2010

Order of klystron by CERN in January 2010

Order of modulator by ESS asap