

32nd Summary of Meeting for S1-Global module design, Cryomodule and Cryogenics

Date: 2010/03/09

Time: 23:00-24:00 (Japan Time)

Attendant: Tug Arkan, Serena Barbanotti, Carlo Pagani, Tom Peterson, Hitoshi Hayano, Eiji Kako, Jim Kerby, Toshihiro Matsumoto, Hirotaka Nakai, Tetsuo Shidara, Nobu Toge, Akira Yamamoto, Yasuchika Yamamoto, Norihito Ohuchi

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Agenda

1. S1-G Module-A cavity status (Eiji Kako)
2. S1-G Module-C assembly status (Norihito Ohuchi)
3. ILC10-Beijing GDE program- S1-G session (Norihito Ohuchi)

Discussion

(1) S1-G Module-A cavity status (Eiji Kako)

- At March 5, four KEK cavities were assembled in a string. The cavity numbers are MHI-05, MHI-06, MHI-07 and MHI-09 from the upstream of the Module-A.
- At March 8, the cavity string was pulled out from the clean room.
- At March 9, the slide-jack tuners for MHI-05 and MHI-06 have been assembled.
- Two warm couplers from DESY cavities and two warm couplers from FNAL/SLAC arrived at KEK. Preparation for assembling warm couplers for Module-C was completed.
- Working schedule
 - March 15: Denis Kostin will arrive at KEK from DESY
 - March 16: Meeting for warm coupler assembly at STF. Checking and preparing the coupler parts. Setting the clean-booth and the pumping system.
 - March 17: Assembly of warm coupler for Z109.
 - March 18: Assembly of warm coupler for Z108.
 - March 19: Assembly of warm coupler for ACC011.
 - March 20: Assembly of warm coupler for AES004.
 - March 23: Preparation and set-up of the clean booth for connection of the beam pipe on the side of the Module-C end plate.
 - March 24: Connection of the beam pipe. Pumping and leak check of the beam pipe.

(2) S1-G Module-C assembly status (Norihito Ohuchi)

- Assembly works from February 24~March 9;
 - Feb. 24~28: Setting cool-down/warm-up line and He leak test.
 - Checking the signal wires of T-sensors for FNAL/DESY cavities.
 - March 1~2: Assembling 5K shield and welding.
 - Setting T-sensors on the 5K shield and 5K thermal anchoring of input couplers.
 - March 3~5: Thermal anchoring RF-cables on the 5K shield.
 - Setting SI on the 5K shield.
 - Assembling 80K shield and welding.
 - Setting T-sensors on the 80K shield and 80K thermal anchoring of input couplers.
 - March 8~9: Checking the signal wires of T-sensors on the 5K and 80K shields.
 - Setting SI on the 80K shield.
- The connection flanges of the cool-down/warm-up pipes for FNAL and DESY cavities were different in size. The height of the flange set of DESY cavity from the helium vessel was 32 mm, and that of FNAL cavity was 41 mm. The set of FNAL cavity had an interference with the 5K shield plate, and then hole-drilling was processed on the 5K plate.

(3) ILC10-Beijing GDE program-S1-G session (Norihito Ohuchi)

- In GDE meeting in Beijing, the S1-G cryomodule session is scheduled on March 29.
 - In the first half, the assembly and preparation status will be reported, and in the latter half, the test schedule and plans will be discussed.
- In the next meeting, the test schedule and cryomodule thermal test plan will be reported.

Next meeting dates

Meeting Date: 23 March 22:00 (Japan time), 8:00 (FNAL), 14:00 (INFN and DESY)