

Summary of 37th Meeting for S1-Global Module Design, Cryomodule and Cryogenics (20100518)

Date: 2010/05/18

Time: 22:00-22:30 (Japan Time)

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

All presentations are unloaded in the INDICO site:

<http://ilcagenda.linearcollider.org/conferenceDisplay.py?confid=4592>

Agenda

1. Cryomodule assembly status: Cavity (Eiji Kako)
2. Cryomodule assembly status: Cryostat (Norihito Ohuchi)

Discussion

(1) Cryomodule assembly status:Cavity (Eiji Kako)

- May 17~18
 - Assembly of KEK warm couplers was successfully completed.
 - The flanges of RF cables will be closed in this week, and the integrated S1-G cryomodule will be pumped for completing the total leak test.
- Collaborators for the low power RF test
 - FNAL: Yuriy Pischalnikov
 - Arrival at KEK: 4th July (Sunday), Departure: 10th July (Saturday)
 - Reserved hotel: Urban Hotel
 - INFN: Carlo Pagani, Angelo Bosotti, Rocco Pararella
 - Arrival at KEK: 5th July (Sunday), Departure: 11th July (Sunday)
 - Reserved hotel: Urban Hotel (5th to 10th [am] July)

(2) Cryomodule assembly status:Cryostat (Norihito Ohuchi)

- May 12~18
 1. Leak test of helium line
 - Welding position=24
 - During the leak test, a periodic leak signal of $4 \times 10^{-9} \text{Pa} \cdot \text{m}^3/\text{s}$ was observed. The signal was decreased spontaneously.
 - The signals were also observed without helium gas in the plastic bags for the leak test.
 - In the final leak test, helium gas was kept in the plastic bags for 30 minutes, and it was confirmed that there was no signal which continuously increased.
 - It was judged that there would be no external leak of the welded parts.
 - 2. Leak test of 80K shield line
 - Welding position=10
 - There was no periodic signal for the leak test of 80K line.
- Assembly schedule
 - May 19~21
 - Assembling the thermal shields and SI
 - Final checking of sensors
 - Closing vacuum bellows
 - May 22
 - Closing cryostat and starting to pump vacuum vessel
 - May 24~31
 - Pumping the vacuum vessel and the total leak test.
 - Cabling of sensors out of the S1-G cryostat, and completing the logging system.

Next meeting date

Meeting Date: 1 June 2010, 22:00 (Japan time), 8:00 (FNAL), 15:00 (INFN and DESY)

From the next meeting, Hitoshi Hayano will organize and announce the S1-G meeting.