

Status of ILC-Korea

June 27, 2005

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1. KEK-PAL collaboration meeting at Pohang
2. Regular video meeting
3. Manpower contribution
4. ILC-Korea activities and workshops
5. Proposed R&D areas
6. SC Cavity test facility (proposed)

ILC-Asia Collaboration Meeting

- Meeting place: Pohang Accelerator Laboratory
- Time: January 14, 2005
- Attendants:
 - KEK: F. Takasaki, K. Yokoya, WG conveners
 - PAL: I. S. Ko, W. Namkung, WG conveners
- Agenda:
 - KEK: Overview of action plan, WG status and plan
 - PAL: ILC activities, Korean cryogenic potentials (KSTAR)
- Discussion:
 - STF, ATF, MOU-Asia

ILC-Asia Video Meetings

- Key agenda:
 - Overall: ILC parameter study, low charge option
 - Main linac: configuration, over coupling of cavity
 - Injector: injector study, dynamic aperture and instability of DR
 - STF: activities and plan
 - ATF2: activities and international collaboration
 - Cavity PBM
- Korean contribution
 - Fast ion instability in 3 km LBNL damping ring
 - Bunch compressor design of ATF DR
 - Cavity PBM R&D
 - Superconducting cavity R&D

Manpower contribution to ILC-Asia

- Superconducting cavity R&D at KEK
 - Y. Son
 - 6 man-months: Feb. 28 – Sept. 1, 2005
 - High gradient SC RF cavity prototype R&D
 - Vertical test of SC RF cavity (warm & cold)
- Damping ring R&D at KEK
 - E. S. Kim
 - 2 man-months: Jan. 30 – Mar. 31, 2005
 - Lattice design and beam dynamics for damping ring
 - Lattice design and beam dynamics for main linac

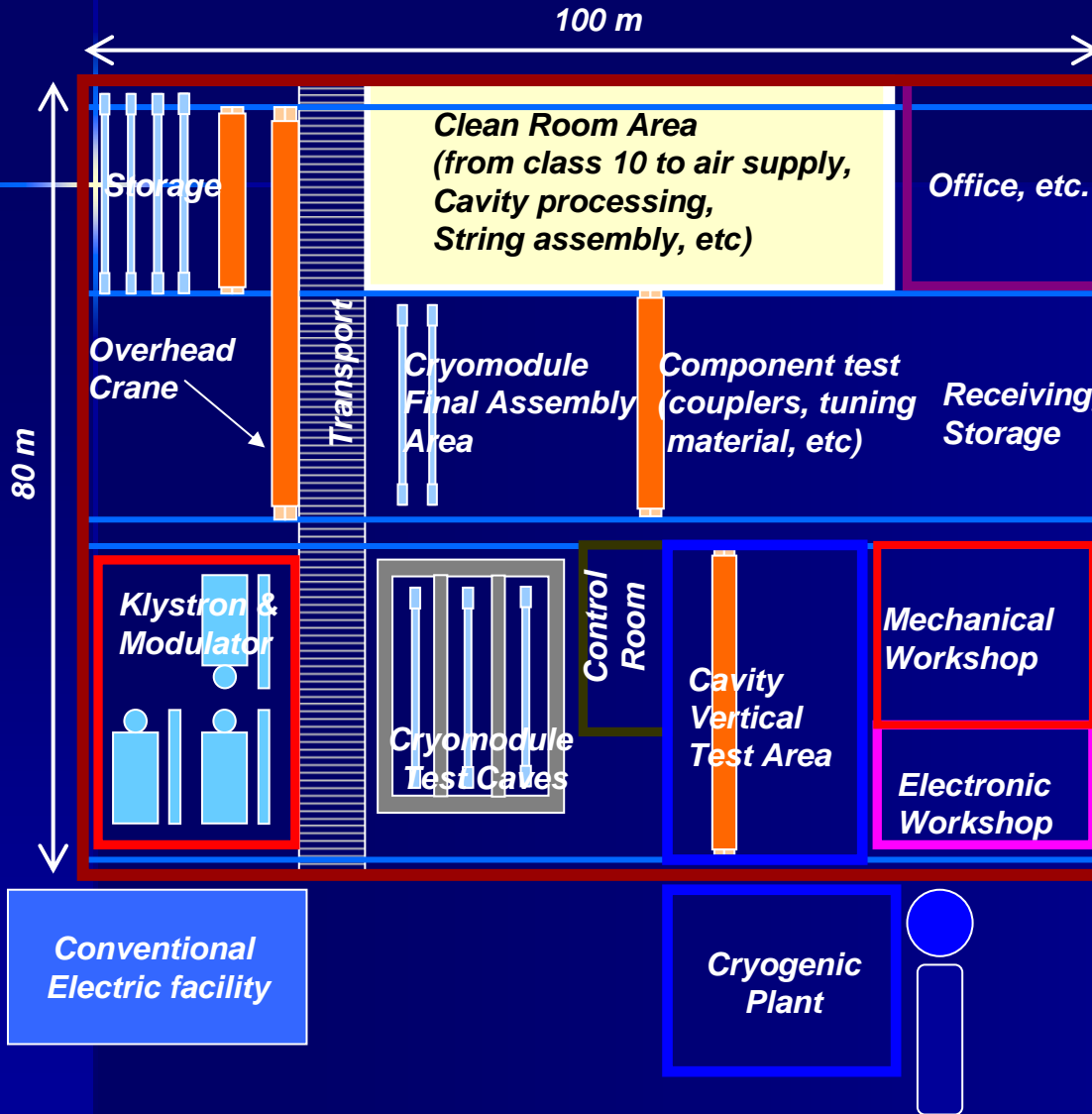
ILC-Korea Activities and Workshops

- ILC-Korea Activities
 - Planning study for ILC-Korea program (Apr. 1-Aug. 30, 2005)
 - Proposed FY06 budget for ILC-activities
 - Established the HEP Association
 - Delegates to KEK and Snowmass workshops
- ILC-Korea Workshops
 - 1st workshop: Nov. 26, 2004 at Kyungpook National University
 - 2nd workshop: Dec. 28-29, 2004 at PAL, POSTECH
 - 3rd workshop: Apr. 1-2, 2005 at Konkuk University
 - 4th workshop: Jul. 15, 2005 at EXCO, Daegu

Proposed R&D Areas

- Accelerator R&D: test & production facilities at PAL
 - SC Cavity
 - Klystron
 - Modulator
- Detector R&D
 - Silicon microstrip tracker
 - Silicon calorimeter
 - Scintillator calorimeter

Cavity Production, Cryomodule Assembly & Test Facility (Plan)



Goal:

- 1 cryomodule/week
- 40 modules/year
- 160 modules/4 years