Report of Visiting PKU, Tsinghua U. IHEP

Dec. 9 and 10, 2009 Kaoru Yokoya, Marc Ross, and Akira Yamamoto

Report to ILC-EC, Dec. 11, 2008

General Agenda

Dec. 9

• am: Peking University (北京大学)

pm: Tsinghua University (清華大学)

Dec. 10

• Am: IHEP(高能研)

Pm: Round Table Discussions: All

Peking University

- Hosted by
 - Prof. Kesin LIU: Director, Inst. of Heavy Ion Physics (IHIP), and Assoc. Prof. Jiankui HAO, and young scientists and PhD students,
- Visit Lab.:
 - Presentation and discussions:
 - Introduction of Peking U. (K. Liu)
 - Recent progress of SRF technology at PKU (J. Hao)
 - Cavity R&D in cooperation with DESY and JLab: 43 MV/m (single cell), 9c-ell in progress
 - Planned ERL/XFEL Laboratory (SRF based)
 - Global R&D effort for TD-Phase of ILC (A. Yamamoto)
 - Importance of development with plug-compatibility
 - Tour:
 - Accelerator Lab.: Heavy Ion Acc., Acc. Mass. Spectrometer)
- Impressions:
 - Wide range of accelerator science activities
 - Long history and highly experienced superconducting RF technology integrated, more than 20 yrs, and collaboration with OTIC, DESY, Jlab, KEK
 - Very high potential, rather independent SCRF activities,

Tsinghua University

- Hosed by:
 - Prof. Chuanxiang TANG (Director of Engineering Physics Department)
- Visit Lab.:
 - Tour:
 - Accelerator laboratory
 - Workshop for industrial application/business
 - Manufacturing RF cavity discs,
 - Presentation and Discussions:
 - Activities of Accelerator Lab. & Ichiro 9-cell cavity (Q. Xing)
 - Primary beam test of cavity BPM (S. Zheng)
 - ILC-GDE activity (M. Ross)
 - Global R&'D effort for the TDP of ILC (A. Yamamoto)
- Impressions:
 - Very dynamic activities in engineering physics, including business,
 - Strong accelerator science and technology,
 - Very smart students graduating. Participating ILC school with best qualified students,
 - Possible/expected cooperation with IHEP

IHEP

- Hosted by Prof. Jie GAO: under | Dr. J. Wang (Deputy Director of IHEP),
- Visit Lab.:
 - Tours:
 - SRF laboratory, and cryogenics facility
 - Presentation and discussions:
 - Global R&D effort for TDP of ILC (A. Yamamoto)
 - 1.3 GHz SRF R&D at IHEP (J. Gao)
 - Discussion how to optimize the cooperation with KEK
- Impressions:
 - SRF laboratory still very quiet, even though a new stream is coming,
 - Necessary optimization of the SCRF cooperation program specially with KEK, with keeping open collaboration with world-wide laboratories,
 - KEK need to optimize the cooperation organization, to help IHEP to proceed "innovative R&D program",

Round-table Discussion

Participants from

IHEP, PKU, Tsinghua U., IE (CAS), and ILC

Summary

- First opportunity for Chinese institutions and ILC joint meeting,
- Chinese Participation to Work Packages has been updated including new proposals,
- KEK should be the key institute to encourage Asian regional cooperation efforts,
- IHEP should be the key institute to encourage Chinese cooperation for the ILC to be more effective,
- KEK needs re-optimize the cavity R&D cooperation with Chinese institutes (specially with IHEP),
- Visiting PKU, Tsinghua U., IHEP very successfully carried out,

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