

Draft Minutes of the 11th Plenary ACFA meeting

The 11th Plenary ACFA meeting was held at the Sokendai, Hayama/Japan on September 4-5, 2006.

Participants

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| Shin-ichi Kurokawa (Chairman) | Setsuya Kawabata (Secretary) |
| Chuang Zhang (Vice chairman) | Rakesh K Bhandari (VECC/in) |
| Amit Roy (IUAC/in) | Sachio Komamiya (Observer U.Tokyo/jp) |
| Mitsuaki Nozaki (KEK/jp) | Akiya Miyamoto (LC WG, KEK/jp) |
| Kazuhisa Nakajima (AA WG, KEK/jp) | Yong Ho Chin (EP WG, KEK/jp) |
| Byung-Ho Choi (KERI/kr) | In Soo Ko (PAL/kr) |
| Won Namkung (ALCSC Chair, PAL/kr) | Dongchul Son (Kyungbook/kr) |
| Yee Bob Hsiung (NTU/tw) | Gwo-Huei Luo (NSRRC/tw) |
| Khiem Le Hong (VAST/vn) | |

Program

September 4 (Mon)

1. Opening
 - 1) Opening by ACFA Chair
 - 2) Introduction of participants
2. Status Report from each member
 - 1) China 2) India 3) Korea 4) Taiwan 5) Vietnam
3. Report from Working Groups
 - 1) High Power Proton Accelerator WG
 - 2) Electronic Publication WG
 - 3) Advanced Accelerator WG
 - 4) Linear Collider Physics/Detector WG
4. Asian Accelerator Conference (APAC)
 - 1) Status Report of preparation for APAC2007
 - 2) Venue of APAC2010

September 5 (Tues)

5. Linear Collider
 - 1) Address by KEK Director General
 - 2) Report from ILCSC Chair
 - 3) Report from ALCSC Chair

- 4) Report from Regional Director
6. General discussion
 - 1) Draft Minutes of the 10th Plenary ACFA meeting
 - 2) ACFA Statement on Taiwan Photon Source
 - 3) ACFA Accelerator school in India
7. Closing

Summary

1. Opening

ACFA Chair Shin-ichi Kurokawa welcomed and reported that the China-Japan Core University Collaboration was expanded to include Korea and India in the Collaboration. After the opening address each participant introduced himself.

2. Status Report from each member

1) Activities in China by Prof. Zhang

After the status of HIRFL-CSR in Langzhou, CBRIF of CIAE and NSRL upgrade, the current status of Shanghai Synchrotron radiation facility, BEPCII project, CSNS project, Daya Bay Neutrino project and ILC activities were presented. The proposal of CSNS has been tentatively approved and in 2010 the construction will be completed.

2) Activities in India by Prof. Roy and Prof. Bhandari

The current status of major accelerators in India, 15UD Pelletron at IUAC, 14UD Pelletron at TIFR, VEC at Kolkata, and INDUS-I and II at CAT were presented. In addition to them the activities in FEL laboratory and the status of the high intensity proton machine for ADS were reported.

3) Activities in Korea

Prof. Son presented the current status and the roadmap of Korea HEP after a brief summary of Korea HEP history. The T2KK (Tokai to Korea) neutrino project, ILC, and Tier-1 center for CMS are on the roadmap.

Prof. Koo reported the R&D for ILC and XFEL at PAL. Especially the fabrication and the beam test of RF cavity BPM, the superconductive RF cavity, and ILC ACD, ICHIRO cavity, were presented. Due to the change of the regulation PAL has to improve the cryogenic facility (to make the He tank wall thicker).

4) Activities in Taiwan by Prof. Luo and Prof. Hsiung

Prof. Luo presented the operation status of Taiwan light source including the report of its upgrade, e.g. the top-up injection since Feb. 2005, the

superconductive cavity since Mar. 2005, the separate operation of SC magnet and SC cavity, and the installation of SC wave shifter and SC wiggler in the limited space, etc. The conceptual design of Taiwan Photon Source was made and was accepted by the government in Mar. 2005. The new proposal was submitted. Prof. Hsiung reported the HEP activities in Taiwan. According to the 200/2009 WP strategic plan for LHC and HEP the Taiwan HEP is very active, e.g. 16 faculties in HEP institutes, AS, NTU, NCU, NUU and more than 25 faculties in Theory. The activities are wide covering LHC Tier-1 center in ASCG, Daya Bay neutrino experiment, Kaon at KEK-JPARC, and ILC. The next WP strategic plan for 2010-2019 will appear.

5) Activities in Vietnam by Prof. Khiem

The 15MeV Microtron has been used for the photofission and the neutron activation analysis. They have also several experimental studies at the oversea facilities, e.g. experimental studies at Dubna and at PAL, physical and chemical study of materials at RIKEN, neutron rich nuclei study at GSI, and alpha resonance study at the Center for Nuclear Study in Univ. of Tokyo. In Vietnam the Integrated National Cyclotron Center will operate soon a cyclotron with 30MeV proton and 18MeV deuteron for the medical application and nuclear study.

3. Report from Working Group

1) High Power Proton Accelerator WG by Prof. Choi

On Apr. 13-14, 2005 the 2nd mini-workshop on HPPA was held at KAERI and studied on DTL and RF for HPPA. The 3rd mini-workshop will be held at IHEP/China in Aug. 2008. There have been several cooperative activities among member countries: RCS technology between China and Korea, meeting of Science and Technology Ministers between Japan and Korea. The 9th HPPA workshop was held at KAERI on Oct. 17-18, 2005, and the 10th workshop will be held at Gyeongju on Sept. 21-22, 2006. Finally, the HPPA study status in China, Japan, and Korea were presented.

2) Advanced Accelerator WG by Prof. Nakajima

After the brief introduction to the Laser plasma acceleration, the recent activities since 2005 till 2006 were presented: CCAST Laser-Plasma Acceleration Symposium on Nov. 1, 2005, ICFA joint workshop on Laser beam interaction on Dec.12-16, 2005, and the 1st Asia Summer School on Laser-Plasma Acceleration in Beijing on Aug. 7-11, 2006. Finally, several successes in Laser acceleration were presented.

3) Electronic Publication WG by Prof. Chin

In JaCoW collaboration 45 conferences are now published and several mirror sites exist. In the last team meeting at Tsukuba in June 2006 the followings were agreed: 1) Each conference organizer has to make agreement with JaCoW. 2) The citation must be the standard way of referring to papers in JaCoW. 3) The next meeting will be held at CAT/Indore in Feb, 2007, in association with APAC2007.

4) Linear Collider Physics/Detector WG by Prof. Miyamoto

The Grand Asian ILC Detector/Physics Study Group has been created under ACFA, ALCSC, and GDE organizations, whose main charge is to enrich the physics cases and to develop detector technologies for the ILC experiment. The workshop LCW2006 was held at Bangalore in May 2006. The conceptual design of detector is under way, while there are 4 detector designs. In the end of 2006 the Detector Concept Report (DCR) will appear. The 9th ACFA LC workshop will be held jointly with GDE meeting at IHEP/Beijing in Feb. 2007.

4. Asian Accelerator Conference (APAC)

1) Status of preparation of APAC2007 by Prof. Bhandari

On July 31 the invited talks were finalized, 63 talks in total. At the end of August 200 abstracts have been submitted. The registration fee will be 300\$.

2) APAC2010

The three year cycle issue of the world particle accelerator conferences is under debate. The EPAC organizers agreed but PAC will be two years cycle for the time being. The venue of APAC2010 has been decided to be held at Kyoto International Conference Center on May 24-29, 2010. The conference chair will be selected from Japan, while the Scientific Program Committee will be selected from Asia region, and Prof. Noda of Kyoto University was assigned to the chair of local organizing committee.

5. Linear Collider

1) Address by KEK Director General

KEK Director General Atsuto Suzuki welcomed the participants and introduced them Activities at KEK : B Factory, Photon Factory, ERL, Material and Life Science Facility and T2K in J-PARC, ILC R&D etc..

2) Report from ILCSC by Prof. Kurokawa

In the ILC organization the Funding Agency of LC has been created to support the ILC study, of which MOU is under preparation. About ICFA and the linear collider, the membership of ILCSC, the ILCSC charter, Global Design

Effort(GDE), and Machine advisory committee(MAC) were reported in addition to the modified mandate of ILCSC. The international Linear Collider School was held at Hayama for 6 weeks in May 2006, where more than 500 students in total attended.

3) Report from ALCSC by Prof. Namkung

CHEP(KNU/Korea) and IN2P3 submitted to join in GDE-MOU signer. The new ILCSC mandate was approved at Moscow ICFA meeting. New ALCSC representatives have been assigned as follows:

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| Australia : Taylor (U. Melbourne) | China : Jie Gao (IHEP) |
| India : Rohini Godbole (IISc) | Japan : Satoru Yamashita (U.Tokyo) |
| Korea : H.B. Park (KNU) | Taiwan : Yee Bob Hsiung (NTU) |
| Vietnam : L.H. Khiem (IOP) | Philippine : Angelina Bacala (MSU-IIT) |

The manager of ACFA home page and ALCSC home page should be a single person. The committee will ask Prof. Y. Morita (KEK) to manage the both web sites.

4) Report by Regional Director Mitsuaki Nozaki

A preliminary Reference Design Report (RDR) including the rough cost estimate will be released in Dec. 2006. The design changes, from one damping ring tunnel at each end of collider to a single damping ring tunnel at the center of collider, and from a single tunnel with large diameter to two tunnels with small diameter, etc. are under discussion. He proposed to make the Asian Strategy for the accelerator science in Asian region. After discussion it was agreed to create a study group which should gather the information from each member region and discuss if we make the strategy. Prof. Nozaki will manage the study group of which members are Profs. Zhang (China), Son(Korea), Nozaki(Japan), Hsiung(Taiwan), and others from other member regions.

6. General Discussion

1) The Draft minutes of the 10th Plenary ACFA meeting was approved after a small change asked by Taiwan member.

2) ACFA Statement on Taiwan Photon Source

Taiwan member asked ACFA to issue the statement on Taiwan Photon Source. The following procedure was approved: Prof. Luo will write a draft and distribute to each member. The final draft will be sent to Prof. Luo from Secretary. The version proved by Prof. Luo will be distributed from Secretary to each member and after the approval of all members the final version will appear in ACFA home page.

3) ACFA Accelerator School in India

The detail of the school will be discussed among ACFA chair and Indian members, and will be announced.

7. Closing

The next Plenary ACFA meeting will be held at CAT/Indore during the period of APAC2007.