

Minutes of the first ACFA-HEP meeting

23<sup>rd</sup> July 2024 12:45-14:00 (CEST)

Hybrid (SR225,Prague Congress Centre + ZOOM connections)

Called by: Yasuhiro Okada, Geoffrey Taylor (ACFA members in HEP fields)

Chaired by: Shoji Asai, Yifang Wang

Scientific secretaries: Yiming Li, Osamu Jinnouchi

*Attendees: (room \*, remote \*\*)*

Pierluigi Campana (ICFA chair)\*

Australia: Geoffrey Taylor (The University of Melbourne) \*\*

Ulrik Egede (Monash University)\*

China: Yifang Wang (Institute of High Energy Physics) \*

Zhizhong Xing (Institute of High Energy Physics) \*

Yiming Li (Institute of High Energy Physics) \*

Indonesia: Suharyo (Haryo) Sumowidagdo

(National Research and Innovation Agency)\*\*

Japan: Shoji Asai (KEK)\*

Yasuhiro Okada (KEK)\*\*

Satoshi Mihara (KEK)\*\*

Osamu Jinnouchi (Tokyo Institute of Technology) \*\*

Korea: Un-ki Yang (Seoul National University)\*\*

Eunil Won (Korea University)\*\*

Malaysia: Izyan Hazwani Hashim (Universiti Teknologi Malaysia)\*\*

Imran Yusuff (Universiti Kebangsaan Malaysia)\*\*

Philippines: Marvin Flores (University of the Philippines, Diliman)\*\*

Wilson Garcia (University of the Philippines, Diliman)\*\*

Denny Sombillo (University of the Philippines, Diliman)\*\*

Taiwan: Yuan-Hann Chang (Academia Sinica)\*\*

Kai-Feng (Jack) Chen (National Taiwan University)\*

Vietnam: Nguyen Thi Hong-Van

(Institute of physics, Vietnam academy of science and technology) \*\*

Dong Van Thanh

(Institute of theoretical and applied research, Duy Tan University) \*\*

- Confirmation of participants & Self-introductions by each member
  
- Words from the ICFA chair (Pierluigi Campana)
 

Asia/Oceania regions have a lot of potential for future large facilities and young people. ICFA welcomes the ACFA-HEP organization to gather and promote these interests in Asian/Oceanian countries. Also important to exchange/foster younger generations (students, post-docs) between Asian countries and worldwide HEP advanced institutions (e.g. CERN), and ACFA-HEP can play a role to be a bridge between them.
  
- Welcome (Shoji Asai, Yifang Wang)
- Introduction of the organization (Geoffrey Taylor)
 

Geoff briefly described a history of ACFA and Asia-hep in the past, and its problems in parallelism in memberships and activities. Then he explained how we came to the current format as a HEP subgroup of ACFA (ACFA-HEP). ACFA-HEP will bring the HEP activities in Asia/Oceania regions together to make them stronger (supporting smaller groups), and will also look into the student programs for the next generation.
  
- Discussion and adoption of By-laws (Yasuhiro Okada)
 

Yasuhiro went through the draft of By-laws. There were several questions / comments during the presentation.

  - Q: p.3: Does the definition of HEP contain e.g. neutrino physics? (Satoshi)
 

A: Yes, it should be broad, not necessary to be accelerator physics. It contains neutrinos, (part of ) nuclear physics, etc.
  - About membership (p4): additional members are expected to be from HEP or particle physics communities, but we leave it to countries to decide. We do not want to be too restrictive (Geoff).
  - Q: what does exactly mean by 'through ACFA', do we need approval from ACFA when we submit some proposals to worldwide communities, e.g. ICFA, ECFA? (Ulrik)
 

A: Yes, since we are subgroup of ACFA, any representations to outside need approval from ACFA (Geoff).

- About Scientific Secretaries (p5): as a startup we have chosen two personnel each one from China and Japan. However after sometime when the organization gets matured, we may think of distributing the roles across the regions (Geoff, Yasuhiro). Since the amount of work is limited, two are enough for now. However we may want to increase the number of secretaries in the future (Shoji).
  - About ACFA-HEP meetings (p6): next AFAD will be at Tohoku Univ. , Japan in June 2025, it is good to have a ACFA-HEP meeting connected to AFAD, but somehow the HEP participation in AFAD is low. It will be good to extend AFAD to include physics sessions (Yifang). LHCP2025 will be in Taiwan (May 2025, organized by Jack Chen), and it may be a good chance to have ACFA-HEP meeting there (Suharyo). ACFA(-HEP) meetings should be based on the series of conference in Asian/Oceanian regions, AFAD is the only opportunity, and we should make AFAD more attractive to HEP people (Yifang). This is agreed by everyone. Satoshi will contact the AFAD LOC member in KEK about the physics sessions.
  - Item 8 (in p.7), the title should be changed from ‘Activities will include’ to something like ‘Activities will include among other possible suggestions’ or ‘Activities will among others things include’ → updated draft will be sent
  - With a modification of Item 8, it was decided that By-laws were adopted at the first ACFA-HEP meeting.
- Discussion of future activities and proposals (all)
  - Before the pandemic there were joint school of Asia & CERN (AEPHEP: Asia-Europe-Pacific School of High-Energy Physics, <https://aepshep.org/>). it was in good shape, hosted in Japan, China, Korea and India. This should continue, and we should discuss with CERN. They will help us in funding and in people. Actually this year it was in Thailand. However it was mainly driven by CERN (it used to be co-organized by us and CERN), Martijn Mulders (CERN) is the chair of the committee.
  - The rotation of the locations, design of the curriculum, allocation of students, etc. should be controlled by ACFA-HEP. Selection of the lecturers,

topics of subject (including the smaller experiments), should be organized together by us and CERN.

- **Action item1: contact CERN for an organization of AEPHEP, and make sure that the school is driven by CERN and Asian countries as the original form/agreement and ACFA-HEP will represent Asian countries as a counter part of CERN.** Kazunori Hanagaki (KEK), Martin Sevier (Melbourne) and Xiaoyan Shen (IHEP), are involved as International advisory committee. For more practical side, International Organizing Committee is important and those members should be endorsed by us. **Location of AEPHEP 2026 is not decided yet, we should work on that (Geoff).**
- Shoji discussed with MEXT for the budget for internships of experimental / accelerator physics. 1-2 persons per year 2-3 months or half a year. Funding is not big yet as a starter, but it is on track. Big labs should be open for the younger generations.
- From Yifang: IHEP has regular physics school, and should think of also new accelerator school. There are interests from countries with their own light source facilities (Malaysia, Thailand). There is a regular accelerator school in KEK but it may be in Japanese (Shoji). In ACFA level, KEK has school organized by people in superconducting magnet (Yasuhiro: <https://conference-indico.kek.jp/event/216/> Jan. 28-Feb. 5, 2024).
- **Action item2: having an accelerator school.**
- **Action item3: should consider possibility of submitting a proposal to European Strategy, discussion can start now (Urlik)**  
IHEP will submit CEPC, JUNO (Yifang), and Japan will submit a ILC proposal (Shoji). National submissions are expected after pre-discussions (Geoff). Geoff will talk with Karl Jakobs and ask what they expect from us in ECFA's perspective.
- **Action item4: About Home page:** ACFA has a homepage, but not maintained. We should have our own ACFA-HEP page. Zhizhong supports the idea of update. Science secretaries (Yiming, Osamu) will take care of it.

- Next meeting:  
will be during the AFAD in Tohoku (Japan). Satoshi will send out the information.

Summary of action items:

1. contact CERN for an organization of AEPHEP as ACFA-HEP representing Asian countries.
2. plan to have an accelerator school.
3. should consider possibility of submitting a proposal to European Strategy, discussion can start now.
4. setting up an ACFA-HEP web page.