

Minutes

ICFA Autumn Meeting 2022¹

11 October 2022

Participation

ICFA members: Florancia Canelli (left at some point), Beate Heinemann, Stuart Henderson, Fabiola Gianotti, Geoffrey Taylor, Karl Jakobs, Lia Merminga, Masanori Yamauchi, Sridhara Das, Srinivas Krishnagopal, Toshinori Mori, Yifang Wang, Ivan Koop, Vladimir Obraztsov, Thomas Schörner (secretary)

Excused: Mike Roney

ICFA panel chairs: Tatsuya Nakata, Chuanxiang Tang, Harvey Newman, Ian Shipsey, Thomas Roser, Yunhai Cai

Lab directors and funding agencies: Abid Patwa, Franck Sabatie, Doon Gibbs, Pierluigi Campana, Richie Patterson

Excused: Nigel Smith

2. News from ICFA

Stuart Henderson reports on recent news relevant for ICFA since the March 2022 ICFA meeting.

- Chuanxiang Tang (Tsinghua University) has succeeded Philippe Piot as chair of the ICFA Panel on Advanced and Novel Accelerators.
- The “[ICFA statement regarding Higgs factory development and the ILC](#)” was completed and published in April 2022.
- The formation of the IDT International Expert Panel was approved. A first meeting of the panel took place on 18 July 2022.
- Jenny List (DESY) was appointed successor of Hitoshi Murayama as IDT WG 3 convenor on 9 September 2022.

3. IDT report and discussion

See Tatsuya Nakada’s slides in INDICO.

¹ All slides can be found on the INDICO page of the meeting: <https://indico.fnal.gov/event/55507/>

During the discussion with T. Nakada and M. Yamauchi, a total prize tag of 120-130 million is mentioned for the entire prelab, plus a corresponding number of FTEs (120). For the envisioned activities focused on the most critical R&D – roughly a quarter of that sum is required.

The IDT is also discussed in the executive session at the end of the ICFA meeting, the main conclusion being that today, no decision or statement by ICFA is required. Instead, next steps for the IDT will be discussed by ICFA in its 2023 spring meeting once the MEXT funding for potential R&D activities has become clearer.

4. Laboratory and regional reports

ICFA heard regional and lab updates as follows. See presentations; only some particular issues are recorded below.

CERN (F. Gianotti)

- Frank Sabatie asked about the HI run scheduling of the LHC. F. Gianotti replied that the current planning still foresees a HI run in November 2023, with details to be fixed.

Europe outside CERN (K. Jakobs)

- K. Jakobs announces that Israel will be included in his report to ICFA next time, since ECFA was preparing an Israel visit in November.

USA (L. Merminga)

In addition to L. Merminga's report on the USA, D. Gibbs reported specifically on the EIC situation:

- There is excellent partnership between the project partners JLAB and BNL.
- The project has successfully achieved CD-1; aiming for CD-2; this would be compatible with construction start in 2025 and operation in the early 2030s.
- As a result of the Inflation Reduction Act, \$140M were received by the EIC in the two labs; this will help to maintain the schedule described above. Hiring goes according to schedule (that is technically driven).
- The EIC user group continues to grow and the project is actively seeking collaborators – now is the time to join.

China and IHEP (Y. Wang)

Japan and KEK (M. Yamauchi)

Canada (orally reported by T. Schörner)

- TRIUMF has published its [20-year vision](#).

Asia (G. Taylor)

- ACFA is only now starting to be re-activated, and especially the forum for HEP discussions. This has been very quiet throughout the past few years.

India (S. Krishnagopal)

- The high-intensity proton accelerator at BARC has achieved 11 MeV. The design goal of 20 MeV with 2 mA is supposed to be achieved by February 2023.
- The next phase of the project is to go to a linac with 200 MeV, 10 mA. This proposal is directed towards radio-isotopes, radioactive beams etc.
- There is strong collaboration with FNAL on PIP-II. The R&D phase is to end in March 2023, and the partners are preparing for entering construction phase.
- There are also DUNE/LBNF discussions with FNAL.

Russia / JINR (I. Koop)

- No report

Latin America (I. Bediaga)

- Not present – no report

5. Executive Meeting

Also here, only the main discussion points are documented.

- Panel mandates: It is suggested to reconsider all panel mandates and to see whether they are out of date, require new structures – or whether entirely new panels are required.
- ICFA members discussed a potential Software Panel. There were two points of view raised: one that questions the need given the active software organizations already in place, and another that is concerned with potential gaps. There was also discussion of whether there is a better way to organise the software, data and networking in a more unified approach. Stuart and Thomas will pull together a discussion group on that matter to consider.
- ICFA meetings: It is preferred to connect in-person meetings to large conferences and not to have in-person stand-alone ICFA meetings in order to reduce travel. Stuart and Thomas will look for occasions for in-person meetings in 2023 and will come up with an overall plan for meetings in that year.
- ICFA seminar: After the cancellation of the seminar intended for Berlin, it is discussed by ICFA to aim for a new seminar perhaps in the second half of



2024, and probably in Europe, since it is Europe's turn to host. ICFA will deliberate with the three European representatives on the options.

The meeting was adjourned.