



The situation in Japan: recent developments

Keisuke Fujii
September 7, 2021

**What we heard
from Hitoshi
at the last ILD phone
meeting on July 6**

Message from the IDT Chair, Tatsuya Nakada

June 21, 2021

Dear ILC International Development members,

As reported before, on 2nd of June KEK submitted the Pre-lab proposal to MEXT. A second document, produced by the Japan Association of High Energy Physicists and KEK in Japanese, describing how to address "the issues on the ILC still to be worked out" was also submitted. These are the issues earlier pointed out by the Science Council of Japan and MEXT expert panel for the ILC,

KEK informed the IDT EB that **the Pre-lab budget request would not be made for the 2022 Japanese fiscal year since MEXT considered it to be premature.** It is anticipated that MEXT will quickly start forming **a panel to review the submitted documents for validating the proposed process,** where the technical part on the accelerator and infrastructure is under the responsibility of the Pre-lab. The forthcoming work by the IDT already planned should also provide sufficient evidence to the panel demonstrating that the Pre-lab will be able to deliver its promise. KEK also informed us that **MEXT expressed their intension to exchange opinions with government agencies in the United States and Europe on the ILC.**

The IDT EB, therefore, encourages the IDT members to continue the planned work and will keep the community informed with new development in Japan.

yours

Tatsuya,
on behalf of the Executive Board

highlighted by KF

Hitoshi said

“I’m disappointed as anybody else!”

Message from KEK DG, Masa Yamauchi

Note on the Pre-lab budget request for 2022

June 23, 2021

Masanori Yamauchi

KEK

KEK submitted the proposal for the ILC Pre-lab produced by the IDT to MEXT in early June. It was submitted together with the "Report on the remaining issues of ILC", which is a report prepared jointly by the Japanese research community and KEK on the progress and future outlook for solving remaining issues of ILC that have been pointed out by several committees. In parallel with these, we and MEXT discussed next steps to take including the budget plan formulated by KEK to start the ILC Pre-lab in JFY2022.

Based on these, MEXT has announced that it will from now on start to exchange opinions with government agencies of the relevant countries, and that it would like to evaluate the progress on the remaining issues by examining the summary report by the ILC community as well as the IDT proposal. **Regarding the budget for Pre-lab, MEXT indicated that it is premature at this time since 1) There is no clear prospect yet for the contributions to the ILC itself by US and Europe, and 2) The solutions to the remaining issues have not been confirmed yet.**

highlighted by KF

Message from Masa (continued)

Regarding 1) above, we will fully support the process to make the dialogue as efficient as possible. The Pre-lab proposal released by the IDT states **the importance of communicating the significance of the ILC to governments in each country. We would appreciate greatly if you could strengthen your activities on this regard** so that the dialogue between MEXT and the governments of each country will be fruitful.

Regarding 2), we will **work closely with the evaluation committee**, which will be formed soon under MEXT, **so that they could conclude swiftly in support of the Pre-Lab** to solve the remaining issues.

Even if the Pre-lab may not officially start in Japan soon, we will **continue discussion with MEXT to increase R&D budget for ILC in the next year to start partially solving the remaining issues as envisaged in the Pre-lab proposal**. Your continuing support will be greatly appreciated.

highlighted by KF

ongoing process

- negotiations on budget request go on till mid-August
- Diet members who support ILC met MEXT and KEK DG
- They are planning for another meeting soon to discuss how to circumvent the current stalemate
- **potential funding:**
 - **boost accelerator R&D without naming ILC**
 - supplementary funding after October election
- MEXT review will be over by the end of the (fiscal) year
- better chance next year?

highlighted by KF

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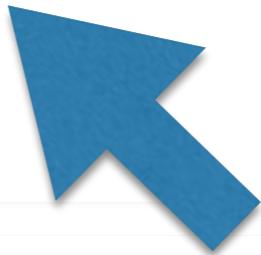
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yours

Tatsuya,
on behalf of the Executive Board

highlighted by KF



Hitoshi emphasized this point.

**What happened
since then?**

New Round of MEXT ILC Panel's Review

Updates in Japan

highlighted by KF

MEXT formed an advisory panel

basically the same membership from a few years ago

new chair: Shoken Miyama, former DG of NAOJ

first meeting: July 29, 13:00-14:50, mostly orientation

https://www.mext.go.jp/b_menu/shingi/chousa/shinkou/064/kaisai/210729.htm

only four more meetings, completing by the end of the (fiscal) year to review

- (1) international collaboration and cost sharing
- (2) scientific significance and understanding by the science community and public
- (3) clarification of technical feasibility
- (4) appropriateness of the cost estimate
- (5) prospect to secure human resources and required training
- (6) other issues about the ILC

KF's Notes on the New Panel

ILC Advisory Panel (2021-7-29→2022-7-28: extensible if needed)

1. Shouken Miyama (chair) : Astronomy (theory)
2. Tomohiro Ichiji : Policy Innovation
3. Tatsuo Omachi : Civil Engineering
4. Sadanori Okamura : Astronomy
5. **Haruyo Koiso : Accelerator**
6. Michihisa Kyoto : JSPS
7. Noritaka Kumagai : Accelerator
8. Takahiro Shinyo : Diplomacy
9. Katsuo Tokushuku : HEP
10. **Wako Tojima: Journalist**
11. Takashi Nakano : NP
12. Shunsuke Mori : System Engineering, Ecology
13. Hiromi Yokoyama : Scientific Communication

No subcommittee formed this time

The panel seemed particularly interested in

1. International cost sharing
2. Understanding by general public and academia
3. Technical feasibility

Aiming at finishing within (JFY)2021 (after ~4 more meetings)

Updates in Japan

highlighted by KF

- JAHEP picked *Kiyotomo Kawagoe* to lead the community response to the advisory panel
- fleshing out response to past comments/criticisms in process
- in the meantime
 - KEK is exploring potential funding without naming “ILC Pre-lab”
 - boost outreach effort to the public (*i.e.* YouTube videos by HM)
 - boost interaction with MEXT officers led by *Shoji Asai* (ATLAS, U Tokyo)
 - politics pretty much frozen till October general election

Updates in Japan

highlighted by KF

- MEXT advisory panel will review mostly progress in last three years, not Pre-lab proposal, concluding by 03/2022
 - technical issues
 - international partners
 - public understanding
- MEXT has sent diplomatic correspondence to Germany, France, and UK.

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The latest info as of Sep.7, the 2nd meeting will be in Oct.

- They expect to have ~~meetings in September~~
 - What is the view of the ILC in your government?”
 - “What is the possible path to reach agreements concerning the ILC?”

2021 Virtual HEP PI Meeting

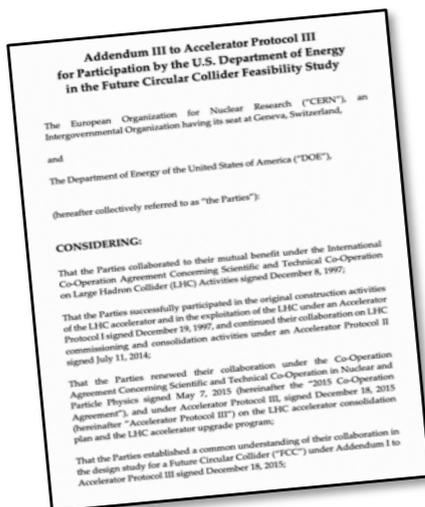
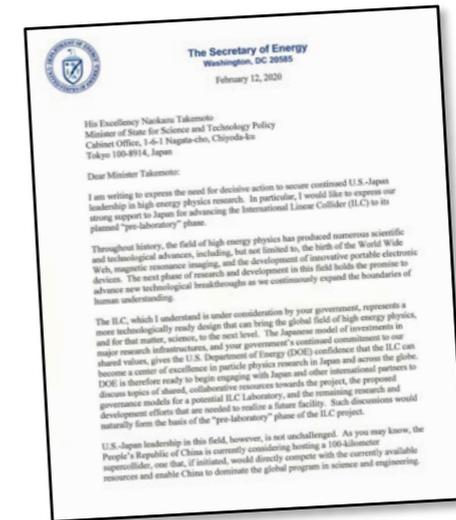
DOE, Office of Science, August 9 - 12, 2021

<https://web.cvent.com/event/1ffa6b78-278d-48f1-8e8c-8432db2f4299/websitePage:e66aa057-84cb-4a74-9c11-c7d6038b7fa2>

Seeding the Future: Energy Frontier Planning

- ▶ **Future collider strategy in the 2014 P5 plan**
 - ▶ Support development and realization of the ILC
 - ▶ R&D towards a very high-energy proton-proton collider
- ▶ **Advancing colliders of the proposed size, scale, and complexity requires intergovernmental discussions and global coordination**
 - ▶ Concerted effort during last ~3 years by U.S. Government to support a Japanese initiative to move forward to its proposed ILC "Pre-Lab" phase
 - ▶ DOE, U.S. State Department, The White House Office of Science & Technology Policy, National Security Council, and U.S. Defense Department
- ▶ **DOE coordinating with the ILC International Development Team, formed by ICFA in 2020, to prepare ILC for its "Pre-Lab" phase**
 - ▶ DOE looks forward to future intergovernmental discussions with Japan and other global partners on ILC

February 12, 2020: Letter from the former U.S. Secretary of Energy Brouillette to Japan Cabinet S&T Policy Minister Takemoto conveying DOE's support to advance ILC to "Pre-Lab"



December 30, 2020: DOE-CERN FCC Agreement

- ▶ **2019: DOE partnered with CERN and European national laboratories on "FCC Innovation Study" proposal submitted to European Commission's Horizon 2020 Design Study initiative**
 - ▶ April 2020: European Commission selected CERN's proposal for funding
- ▶ **2020: DOE and CERN signed a FCC agreement to continue R&D for a 100 km collider in the Swiss-French area**
 - ▶ Also advances the next stage of feasibility studies emphasized in the 2020 Update of the European Strategy for Particle Physics

August 2021

HEP Program Overview

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by Jim Siegrist, DOE HEP Director

Updates in Japan

highlighted by KF

- MEXT advisory panel will review mostly progress in last three years, ~~not Pre-lab proposal~~, concluding by 03/2022
 - technical issues
 - international partners
 - public understanding
- **their agenda now does include Pre-lab proposal!**
- **Next (=2nd) meeting expected in October**
 - Toshi Mori (JAHEP Chair): overview and context of ILC
 - Hitoshi Murayama (IDT WG3 Chair): physics
 - Shin Michizono (IDT WG2 Chair): technical feasibility and cost
 - Tatsuya Nakada (IDT Chair): Pre-lab proposal
 - discussions

probably
the 3rd meeting
also in Oct.

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Updates in Japan

highlighted by KF

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- MEXT budget request is out
 - no explicit mention of ILC
 - **KEK *did* request additional funds for R&D**
 - enough ambiguities in the document
 - detailed budget contents will not be known till early January
- **MEXT waiting from Europe**
 - science attachés at Japanese Embassies delivered diplomatic cables to German, French, UK agencies
 - **some contacts expected in September**

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