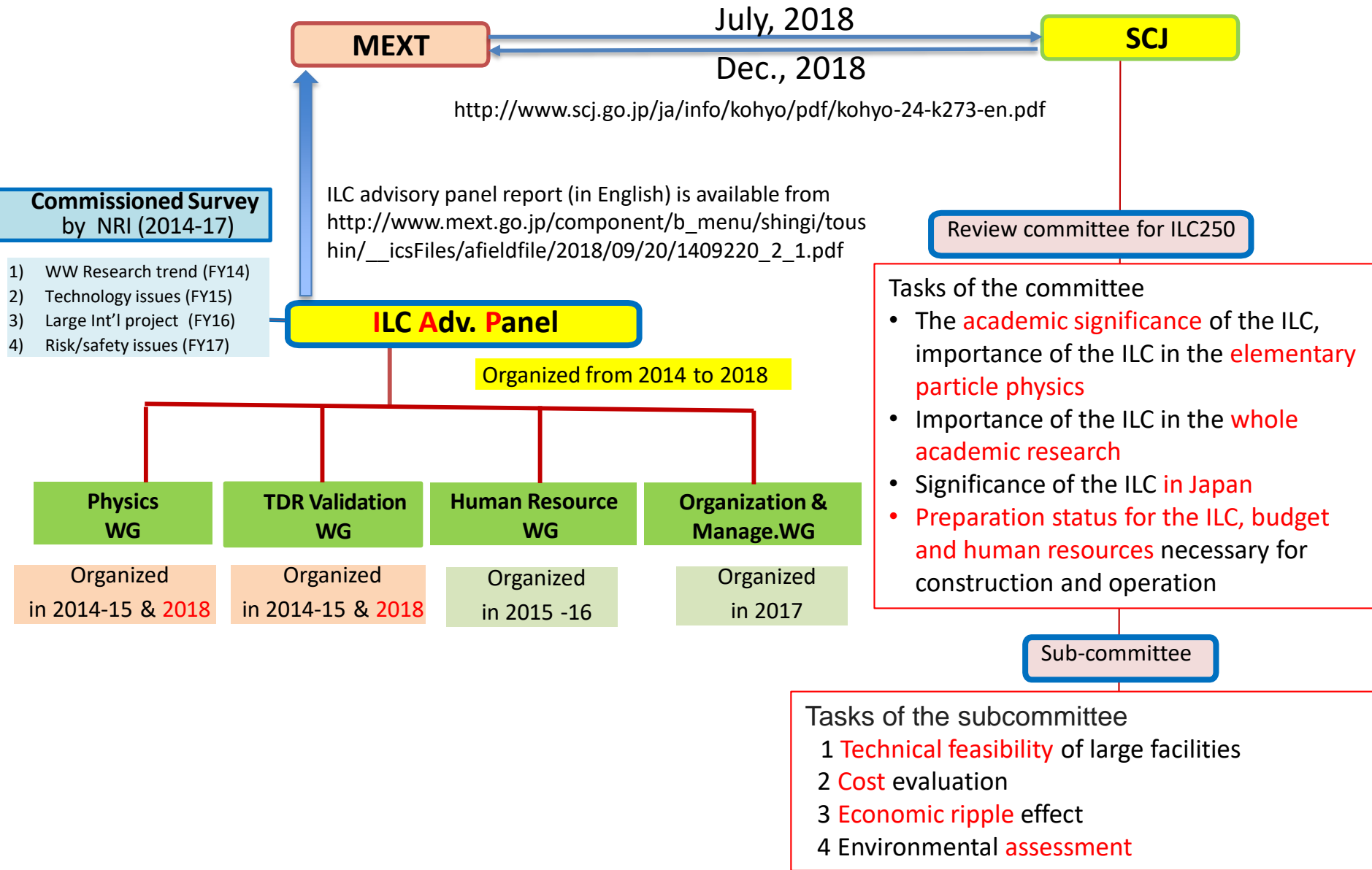


# TCMB report

*Shin MICHIZONO*  
*KEK/Linear Collider Collaboration (LCC)*

# The SCJ committee for ILC250



# The SCJ report and KEK statement

- The report is available at

<http://www.scj.go.jp/ja/info/kohyo/pdf/kohyo-24-k273.pdf>

(full report in Japanese)

<http://www.scj.go.jp/ja/info/kohyo/pdf/kohyo-24-k273-en.pdf>

(Executive summary in English)

- KEK released a message to clarify our stand point on December 19, 2018.

<https://www.kek.jp/ja/newsroom/2018/12/19/1700/>

Also statements were released from the Tohoku area and Diet members.

- KEK sent out the KEK statement and the Diet member's statement .

[https://www2.kek.jp/ilc/file/SCJ\\_report\\_clarification\\_181221.pdf](https://www2.kek.jp/ilc/file/SCJ_report_clarification_181221.pdf)

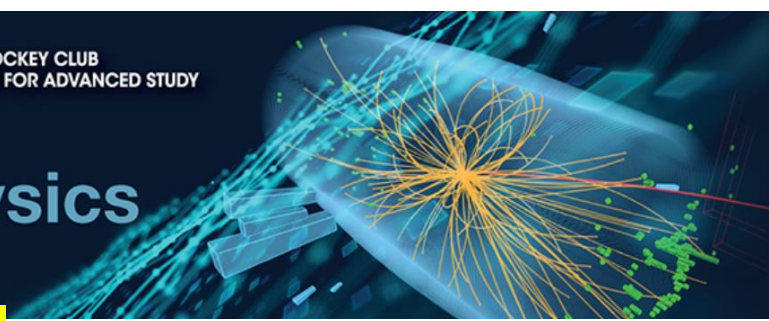
This was also covered by LC Newslines.

<http://newslines.linearcollider.org/>

IAS PROGRAM

# High Energy Physics

January 7-25, 2019



<http://iasprogram.ust.hk/hep/2019/conf.php>

	Jan 21 (Mon)	Jan 22 (Tue)	Jan 23 (Wed)	Jan 24 (Thu)
<b>Time</b>				
<b>Event</b>				
09:00 - 12:55				<b>Session Th-1</b> <b>Chair: Tao LIU</b> <i>Venue: IAS Lecture Theater, G/F, Lo Ka Chung Building, Lee Shau Kee Campus, HKUST</i>
09:00 - 09:45				<b>US HEP Planning and Strategy [Slides]</b> <b>Andrew LANKFORD</b> <i>University of California, Irvine</i>
09:45 - 10:30				<b>China HEP Strategy [Slides]</b> <b>Yifang WANG</b> <i>Institute of High Energy Physics, Chinese Academy of Sciences</i>
10:30 - 11:15				<b>Road to European HEP Strategy [Slides]</b> <b>Jorgen D'HONDT</b> <i>Vrije Universiteit Brussel</i>
11:15 - 11:45				Coffee Break (Venue: IAS Lobby, G/F)
11:45 - 12:45				<b>Forum</b> - <b>Jorgen D'HONDT</b> (Vrije Universiteit Brussel) - <b>John ELLIS</b> (CERN and King's College London; IAS Senior Visiting Fellow) - <b>Andrew LANKFORD</b> (University of California, Irvine) - <b>Yifang WANG</b> (Institute of High Energy Physics, Chinese Academy of Sciences) - <b>Hitoshi YAMAMOTO</b> (Tohoku University) [Slides]
12:45 - 12:55				<b>Closing Remarks [Slides]</b> <b>Tao LIU</b> <i>HKUST</i>

# Science Council of Japan on ILC250

Report: Dec 19, 2018

## Executive summary (official translation)

...

Judging from the plan and preparatory status of the project presented at the moment, the Science Council of Japan does not reach a consensus to support hosting the 250GeV ILC project in Japan. The SCJ considers that government should be cautious regarding a decision to announce its commitment to host the ILC in Japan.

...

(Concerns: No clear prospect for proper international cost-sharing or securing human resources. Not convinced that cost is justified by the scientific merit. Technically, considerable hurdles remain to be cleared.)

Question being asked: 'Should Japan initiate serious international negotiations, such as cost-sharing and governance?'

MEXT Minister Shibayama: 'SCJ report is one input to be considered.'

# On Announcement by Japanese Government

Chair's Summary from the **LCB phone meeting** that took place on 5 December 2018 concerning the status of the ILC discussion in Japan

In order to adhere to the plan, **it would be crucial to have a statement from the Japanese government in time for the March 2018 LCB/ICFA meeting**, expressing its strong interest to host the ILC in Japan and intention to initiate international discussion, together with an indication of **possible Japanese contribution** along the line suggested in the LCB conclusion endorsed by the ICFA in Ottawa in November 2017.

→ **Effective deadline: March 7/8, 2019 LCB/ICFA meeting in Tokyo**  
(to be properly included in the European Strategy Update discussion)

(LCB, Nov 2017)

...A natural expectation would be that the cost for the civil construction and other infrastructure is the responsibility of the host country, while the accelerator construction should be shared appropriately. ...

First, the talks preceding the panel discussion were quite favorable for the ILC. **In Andy's (Lankford) talk, he reiterated the P5 position that treated ILC quite highly,** and 'waiting a position by Japan' was mentioned at two or three locations: 'While awaiting a position by the Government of Japan to host the ILC, the U.S. continues R&D efforts, focusing on areas of cost reduction for the accelerator.' on e.g. p13. He also says 'It rests with the next P5 subpanel to determine the priority of e+e- colliders in the 250-500 GeV range.'

**Jorgen also reiterated the last European Strategy on ILC:** 'Europe looks forward to a [ILC] proposal from Japan to discuss a possible participation.' was quoted. He even described ILC in some detail together with XFEL. Also spent a whole page saying it again and adding 'Waiting now urgently for a conclusive statement from the Japanese Government for their willingness to host ILC (an ICFA meeting is planned early March to conclude)'. He also showed a page with PM Abe holding a paper on ILC together with Kawamura, Shinoya, Onodera, Satoru, etc. Quite an intense coverage. On the other hand, FCC CDR was used as inputs and description such as 'HL-LHC ~ ILC250' and the plot of Lum vs energy where the ILC250 point is one order of magnitude below FCCee was shown. This is simply because we have not informed people well enough. Lum upgrade of x2 and polarization gain would move ILC within factor of two of FCCee at 250 GeV.

**Yifang did spend much time on ILC** - his priority was to tame FCC people: 'We are happy to collaborate with FCC and even join the FCC if it is approved.'

The panel discussion was overall quite mild. It started with my short presentation where the luminosity upgrade was explained and the effective luminosity gain by polarization was shown. John Ellis was following it, and according to Roman, he immediately understood it and realized that FCCee cannot beat out ILC as a Higgs factory and then he tried to focus on Z and W. He commented that 'even when the ILC goes, I hope that people will continue to work on FCC' . That was how he came closest to being negative about the ILC. There were quite a few questions about the ILC at the beginning of the QA period. Some people seemed to think that by March, we will know if the ILC is dead or approved for construction. I commented that **'even if Japanese government issues a positive statement, it is just a beginning of international negotiations. It would take at least two years for an agreement to be reached.'** Then, Mangano said, 'realistically, I think it would take 5 years. It would leave the community in a state of paralysis. Don't you think it is better if Japanese government says No?' And this was the closest he came to be negative about the ILC. I responded that **'if there is a positive announcement, it will be a completely different state - a happy state - compared to now. More funds will be available, and activity will follow. Anyway, most of us are working on other experiments in parallel.'** This 'paralysis argument' was echoed by another person, but was something I did not expect. Then, the central theme shifted to widening R&D collaboration to other fields, importance of international collaboration vs competition, etc. There were many questions by FCC people even after the panel discussion, but they were all quite friendly. All in all, **the sessions today were quite positive for the ILC.** It has been pounded again and again that 'US and Europe are eagerly waiting for a positive signal from Japan' . Once a positive sign comes, there will be a phase transition, and active interactions will begin immediately to define who will work on the ILC and who won't. We have to be prepared for it to convince scientific case of the ILC etc. **The Lausanne meeting would be a critical venue for such activities.**



# Linear Collider Community Meeting

8-9 April 2019

STCC

Europe/Zurich timezone



Overview

Timetable

The meeting has three main objectives:

- Initiate the formation of a strategy for future linear collider activities.
- Discuss how to present the case for linear colliders at the Open Symposium in Granada.
- Address the future organisation of the international linear collider activities beyond LCC.

In addition to the input provided by CLIC and ILC to the European Strategy process, the decision of Japan concerning hosting the ILC is expected to be known at the time of the meeting.

The meeting will be open. It will start Monday 8.4 at 11:00 and conclude Tuesday 9.4 at 16:00.

The meeting is arranged on the initiative of LCB/IFCA and is supported by ECFA. CERN and EPFL act as local organisers.

The venue is the SwissTech convention centre at the EPFL campus: <https://www.stcc.ch/fr/>

Juan Fuster (ECFA LC physics&detector study)

Steinar Stapnes (LC/CERN)

Tatsuya Nakada (LCB and EPFL)

Just the program committee started to organize the meeting.