

Status in Japan

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Hiroshima University

3 September 2018
PosiPol2018

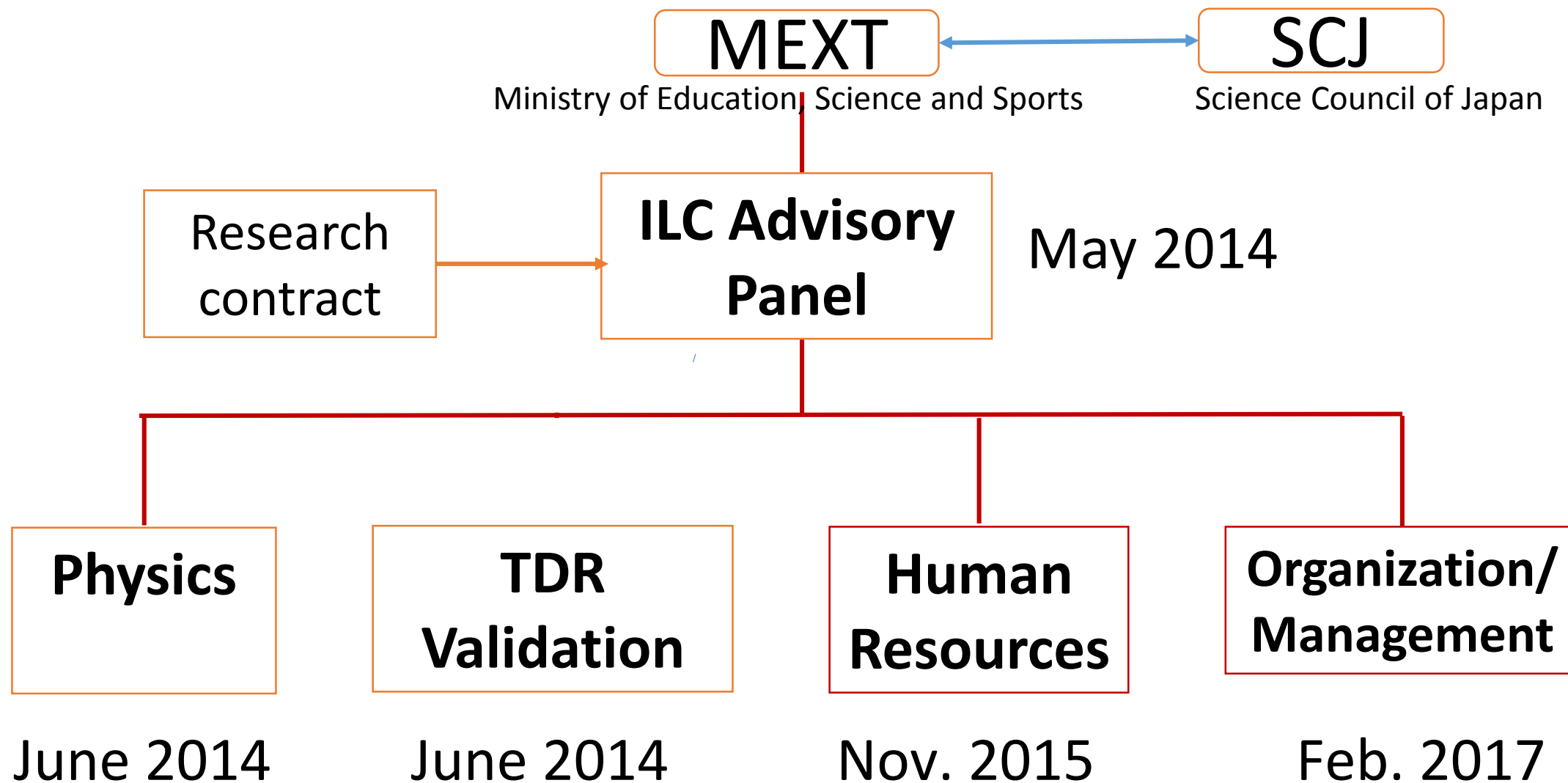
Contents

- Where we are
- The Summary of the discussion of the Expert Committee of MEXT
- Recent events and Activities

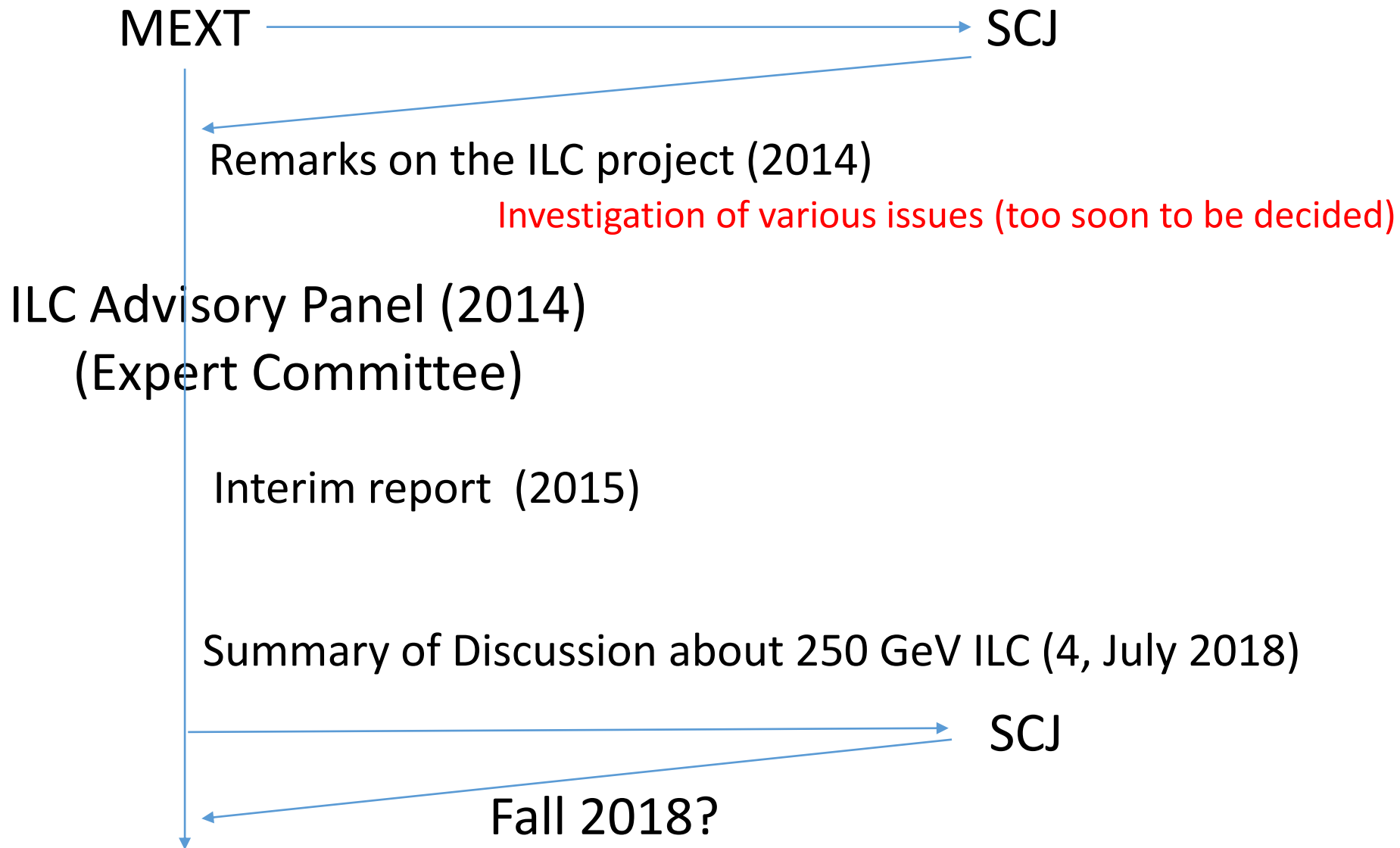
I will try to give atmosphere in Japan about ILC

Note that English translation and comments in this talk are those of individuals

ILC evaluation organization



Where we are



Summary of Discussion about 250 GeV ILC (4, July 2018) (summarized and translated by tt)

- Science
 - Has chance to direct physics of BSM by Higgs study
 - New particle unlikely, no top quark
 - Capability of dark matter search is comparable with 500 GeV
- Cost /Technology
 - Must be realized by an international cost sharing
 - Potential risk of cost increase are noted
 - R&D remaining for beam dump, sources, control system, damping ring
- Understanding of public and scientific community are important



Inputs to the discussions in SCJ

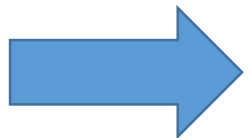
Good to validate physics case and summarize issues ,,,,,,,

- Our view

- ILC in a grand view of particle physics
- Budget from outside the ordinary framework (MEXT)
- Tohoku
 - Construction cost
 - Environmental assessment
 - Local support
- Outreach activities for public and scientific community

- MEXT

- Performance of ILC 250 GeV
- ,,,,,,,
- No site candidate
- They know, but,,,,



Sufficient inputs to the committee members?



東京大学
素粒子物理国際研究センター
International Center for Elementary Particle Physics
The University of Tokyo

High Energy Accelerator Research Organization (KEK),
Linear Collider Collaboration (LCC) and
International Center for Elementary Particle Physics (ICEPP)
cordially invite you to the symposium on:

"The Superconducting RF Technology for the International Linear Collider"

Monday, June 25th, 2018 at 10:00



Fukutake Learning Theater, University of Tokyo
(7-3-1 Hongo, Bunkyo-ku, Tokyo 113-0033)
<http://fukutake.iii.u-tokyo.ac.jp/english/access.html>

Please register at http://www-conf.kek.jp/SRF_for_ILC/

Language: English and Japanese
with bi-directional simultaneous interpretation for the morning session

Render of ILC © Rey/Heri/KEK
Superconducting RF cavity © Fermilab



SRF Technology symposium 25 June

第65回応用物理学会春季学術講演会特別シンポジウム

物質と宇宙の基礎研究と それがもたらす最先端産業技術

日時：2018年3月17日(土) 13:15~18:00 (開場：13:00)

入場無料, 事前登録不要

場所：早稲田大学西早稲田キャンパス 63号館2階03~05室

開会挨拶

橋本周司 (早稲田大学)

特別講演(13:25~14:25)

基礎科学と加速器 小林誠 (高エネルギー研)
2008年 ノーベル物理学賞受賞者

講演I(14:25~15:25)

ILC計画とその物理的意義

駒宮幸男 (東大・理)

ILC 国際研究所が日本にもたらすもの

講演II(15:50~17:50)

レーザーを用いた電子ビーム精密診断
超伝導物性 - 加速空洞の物性と改良 -
加速器の産業と医療への応用
宇宙から医療まで：
放射線イメージングの最前線

閉会挨拶



Symposium in Japanese Applied Physics Society

Symposium with Nobel laureates



Press conference at Foreign Correspondent's Club of Japan



Overview, activities and future prospects of the International Linear Collider (ILC) Project

August 7, 2018

The ILC Promotion Project
Manager: Satoru Yamashita

国際リニアコライダー (ILC) 計画の概要と
これまでの活動と今後の展開について

2018年8月7日

ILC推進プロジェクト
マネージャー 山下 了

Briefing by Satoru Yamashita at FCCJ

The handouts were well prepared by a collaboration with a major marketing company

<https://ameblo.jp/takaakimitsuhashi/entry-12393620700.html>

<https://www.ilc100.org/>

<https://www.youtube.com/watch?v=9E5fBpzDaJ8&feature=youtu.be>

<https://www.youtube.com/watch?v=9E5fBpzDaJ8>

<https://www.businessinsider.jp/post-173792>

<https://38news.jp/economy/12241>

<https://www3.nhk.or.jp/nhkworld/en/tv/scienceview/20180829/2015197/>

ILC Committee in SCJ (July 26)

【Committee members】

Denji Kobayashi	(Vice president Osaka Univ.	Philosophy)
Tatsuyoshi Saijo	(Kochi Inst. of Tech,	Economy/Environment)
Takaaki Kajita	(U Tokyo, Particle Physics)	
Hirokazu Tamjura	(Tohoku Gakuin,	Nuclear Physics)
Masako Yoneda	(Keio Univ,	Civil Engineering/Architecture)
Yasuhiro Ie	(SCJ: Chair	Material Physics)
Mitsuru Uesaka	(U Tokyo,	Acc. Physics)
Naoshi Sugiyama	(Nagoya U,	Astro Physics)
Tomofumi Nagae	(Kyoto Univ.	Nuclear Physics)
Toshio Hirano (QST,	Medical)

【Sub Committee】

Masafumi Kamon	(Kyoto Univ.、	Civil Engineering/Architecture/Environment)
Toru Chujo	(Research Institute for Humanity and Nature,	Biology/ Environment)
Tsuneyoshi Mochiduki	(Economic Research Association,	Engineering/ Architecture)
Hitoshi Tanaka	(Spring 8,	Acc.)

Talking directly to the committee members

- MEXT committee
 - Satoru Yamashita, Naoto Kobayashi,,,,,TT
- SCJ Committee
 - Atsuto Suzuki, Satoru Yamashita,,,,,,, (incl. Kuriki, TT)

Giving information about the ILC such as

Science (particle physics as a global collaboration)

International Collaboration

Cost issues

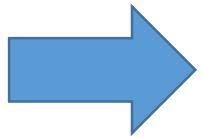
Site specific studies

civil engineering design

environmental assesment

SCJ committee meetings

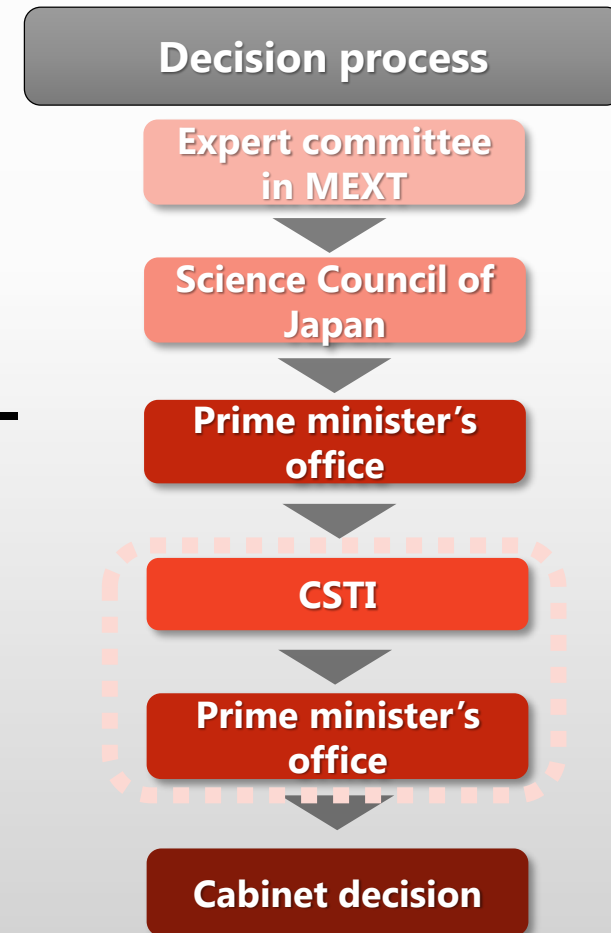
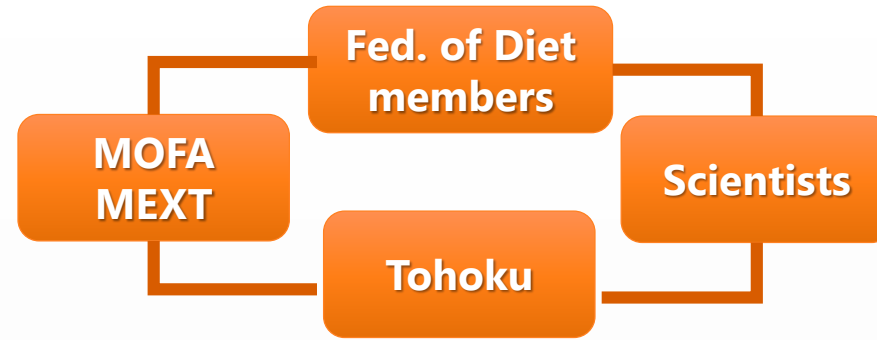
- Aug 10 committee/ tech. sub committee
- Aug 20 tech. sub committee
- Aug 21 committee
- Aug 23 tech. sub committee
- Aug 29 committee



Interviews with
MEXT committee members,
JAHEP chair (H. Aihara),
Particle Accelerator Society of Japan (R. Hajima)
KEKDG (M. Yamauchi), KEK (Fujii, Michizono, Miyahara)

ILC Timeline

<p>2013 2017</p>	<p>US·EU·Labs. in the world Support ILC in Japan</p>
<p>2018</p>	<p>Japan-France·Japan-Germany Established Government – Politic- Academic Body</p> <p>July 2018 Expert Committee in MEXT</p> <p>by fall 2018 Discussion in Science Council of Japan</p> <p>by the end of Dec. 2018 Expression of Interest from Japanese government</p>
<p>2019</p>	<p>Japan-US intergovernmental discussion</p> <p>Discussion of 5 year European Strategy</p>



Summary

We

- Local government
 - Tohoku ILC preparation office (chair: A Suzuki)
- Industry
 - AAA
- Academic sector
 - KEK, Universities

are working very hard to get a green signal by the end of this year.