Meeting FC-CPPM, 30 Mars 2021 Claude Vallée

# **DERNIERES NOUVELLES DE L'ILC**

## LCWS2021 ILC International Development Team Next steps

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LCWS 2021 / 15-18 March 2021

See <a href="https://indico.cern.ch/event/995633/">https://indico.cern.ch/event/995633/</a>

**Close to 1000 registrants** 

**Political progress:** 

Bottom-up (KEK→MEXT) and top-down (PM Cabinet/Diet → Ministers) processes in Japan Critical step: Prelab budget request to MEXT early summer Confirmed support of US new administration to the project

Project design:

"Technical Preparation Document" imminent release for accelerator Prelab program Interesting set of new ideas from HL-LHC and R&D communities for detector improvements

# **ILC INTERNATIONAL DEVELOPMENT TEAM**

Now fully operational, new ILC public web site released: https://linearcollider.org/

ICFA			
	ILC-IDT		
	Executive Board		
	Andrew Lankford (UC Irvine): Americas Liaison		
	Shinichiro Michizono (KEK): Working group 2 Chair		
	Hitoshi Murayama (UC Berkeley/U. Tokyo): Working group 3 Chair		
	Tatsuya Nakada (EPFL): Executive Board Chair and Working group 1 Chair		
	Yasuhiro Okada (KEK): KEK Liaison		
	Steinar Stapnes (CERN): Europe Liaison		
	Geoffrey Taylor (U. Melbourne): Asia-Pacific Liaison		
	Working group 1	Working group 2	Working group 3
	Pre-lab set-up	Accelerator	Physics & Detectors
	Scientific secretary: Tomohiko Tanabe (KEK) Communication team led by Rika Takahashi (KEK)		
Unlike LCB/LCC, ILC-IDT is focused on the ILC.			

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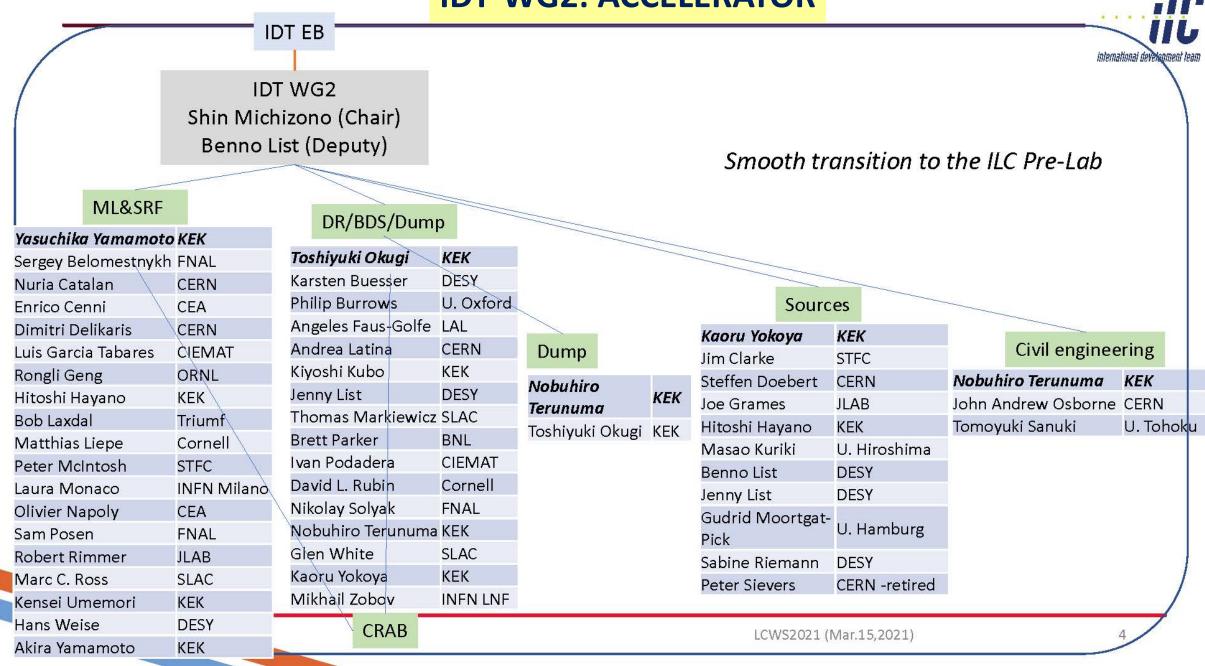
KEK provides administrative, logistic and some financial support.

## **IDT-WG1: PRELAB SETUP**

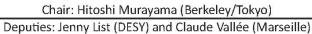
#### **Members: EB + representatives of worldwide large Labs:**

Paul Collier (CERN) Bruce Dunham (SLAC) Brian Foster (Oxford) Juan Fuster (Valencia) Stuart Henderson (JLAB) Reiner Kruecken (TRIUMF) Joseph D. Lykken (FNAL) Maksym Titov (CEA) Satoru Yamashita (Tokyo)

### **IDT-WG2: ACCELERATOR**







# Coordinator and Deputy coordinator(s)

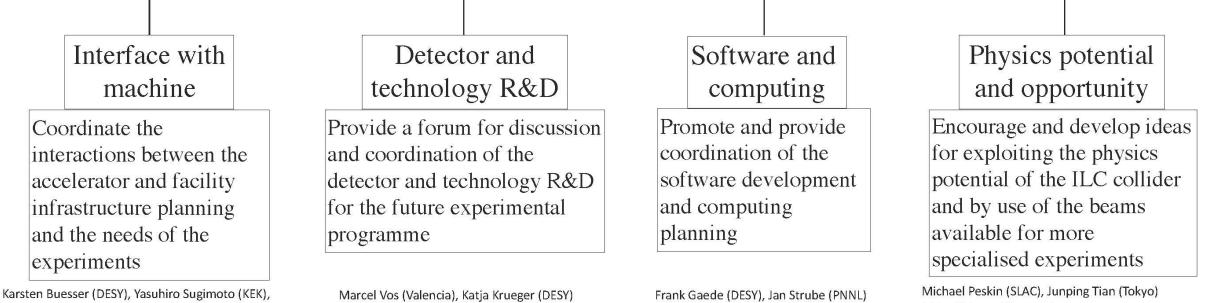
**Steering Group** 

Kiyotomo Kawagoe (Kyushu), Alain Bellerive (Carleton), Ivanka Božović Jelisavčić (Belgrade)

Speaker's bureau

Subgroup conveners, Coordinator and Deputy Coordinator(s)

Andy White (UT Arlington), Ties Behnke (DESY), Yuanning Gao (Peking), Frank Simon (MPP), Jim Brau (Oregon), Keisuke Fujii (KEK), Phil Burrows (Oxford), Francesco Forti (INFN), Filip Zarnecki (Warsaw), Patty McBride (Fermilab), Mihoko Nojiri (KEK), CERN member, Timothy Nelson (SLAC), Kajari Mazumdar (Mumbai), Phillip Urguijo (Melbourne), Dmitri Denisov (Brookhaven)



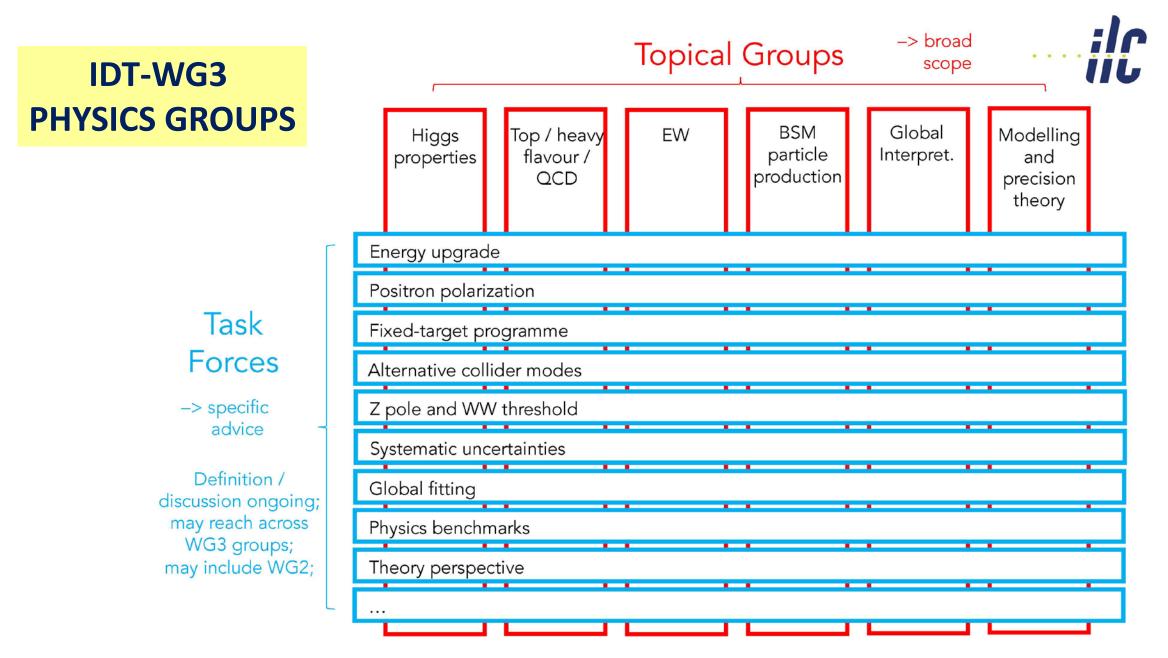
Petra Merkel (Fermilab), David Miller (Chicago)

Daniel Jeans (KEK)

Aidan Robson (Glasgow)

## Participation open to all volunteers...

Roman Poeschl (Orsay), US



#### **Technical aspects:**

- Identify all machine/detector interface issues to be addressed by the Prelab to finalize the ILC design (e.g. interaction campus, experimental hall, interaction regions, operating scenario), through a forum of exchange of information between machine and detector requirements, and study their implications for the experiments design.
- Monitor the global detector R&D in ILC detector concept groups, detector R&D collaborations, and beyond the current ILC community – and enable new efforts to introduce emerging detector technologies into the ILC experiments.
- Coordinate performance studies to assess the detector requirements of the ILC experiments as well as the relative performance of alternative detector solutions.
- Contribute to defining how the Prelab structure can best foster the detectors' final design and construction preparation in liaison with the worldwide academic bodies and industrial landscape.

# **IDT-WG3: TECHNICAL TASKFORCES BEING SET UP**

#### **Detector Hall and IP Campus:** (option to merge the 2 taskforces under discussion)

- WG2: H. Hayano (CFS), N. Terunuma (CFS), T. Sanuki (Site)
- WG3-MDI: K. Buesser (IP Campus), Y. Sugimoto (DH), T. Tauchi (BDS and seismic issues), Y. Makida (detector SC magnet), *SiD & CLICdp contacted to nominate representatives*

#### Impact of beam delivery system on detectors design and specific physics reach

- Beam param measurements (lumi, pol, E), beam BG conditions, inner&fwd detectors design, fwd physics reach
- Contributors: WG3-MDI/D&T/Soft/Phys + WG2 + concepts
- Task force(s) to be set up under the lead of the WG3-MDI subgroup (R. Poeschl specifically in charge)

#### **Detector performance studies**

- Coordination of performance studies including emerging technologies and alternative detector solutions
- Contributors: WG3-D&T/Soft/Phys + concepts + R&D community
- Task force to be set up under the lead of the WG3-D&T subgroup



<u>April</u>:

Release of the ILC Technical Preparation Document and of the Prelab interim document

October 25-29: "Workshop on potential experiments at ILC"

to be organized in Japan by IDT-WG3