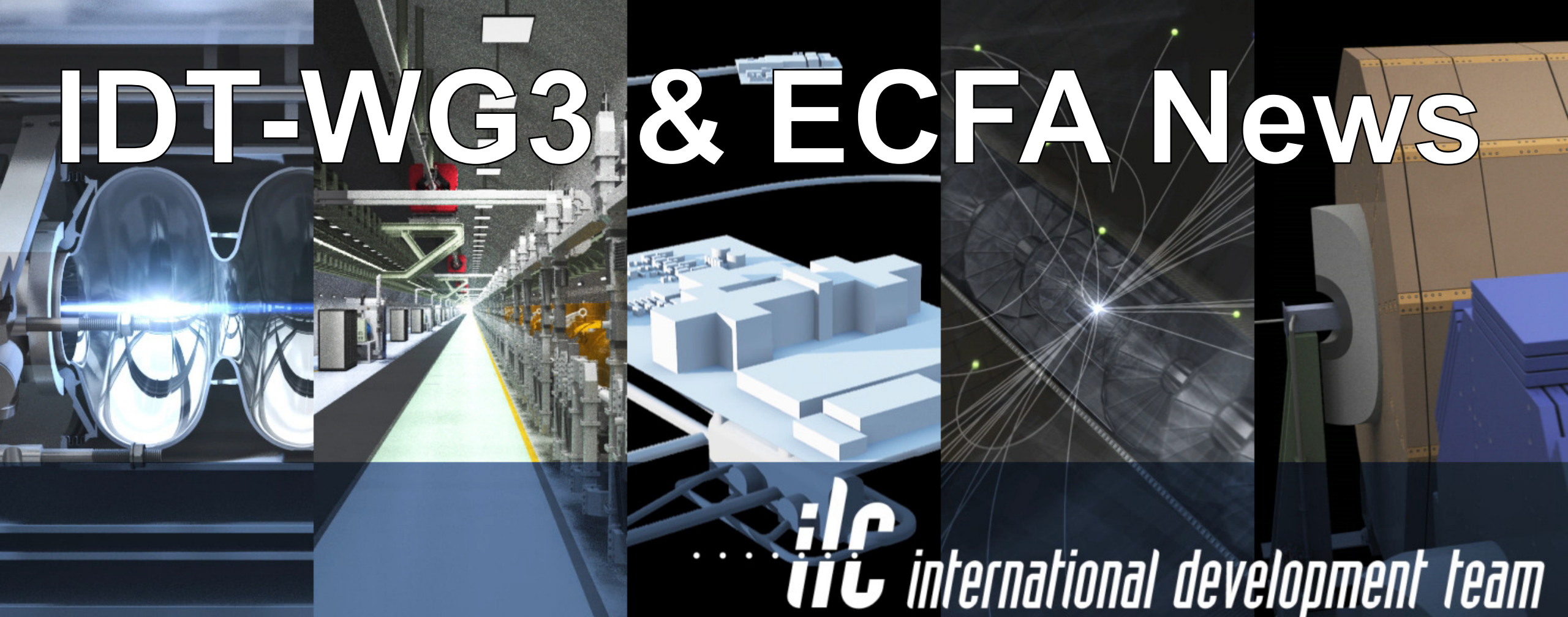


IDT-WG3 & ECFA News



ilc international development team

Jenny List
ILC Europe meeting
9 Nov 2022



WG3 Organisation and mandates

Chair: Jenny List (DESY/CERN)

Deputies: Roman Pöschl (IJCLab), Michael Peskin (SLAC), Daniel Jeans (KEK), Jinlong Zhang (ANL)

Coordinator and Deputy coordinator(s)

Kiyotomo Kawagoe (Kyushu),
Carsten Hensel (Rio de Janeiro),
Ivanka Božović Jelisavčić (Belgrade)

Speaker's bureau

Steering Group 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), Timothy Nelson (SLAC), Kajari Mazumdar (Mumbai), Phillip Urquijo (Melbourne), Dmitri Denisov (Brookhaven), Hitoshi Murayama (Berkley/Tokyo), Claude Vallee (Marseille)

Interface with machine

Coordinate the interactions between the accelerator and facility infrastructure planning and the needs of the experiments

Karsten Buesser (DESY), Yasuhiro Sugimoto (KEK), Roman Poeschl (IJCLab), Tom Markiewicz (SLAC)

Detector and technology R&D

Provide a forum for discussion and coordination of the detector and technology R&D for the future experimental programme

Marcel Vos (Valencia), Katja Krueger (DESY)
Jinlong Zhang (ANL), Shinya Narita (Iwate)

Software and computing

Promote and provide coordination of the software development and computing planning

Frank Gaede (DESY), Jan Strube (PNNL)
Daniel Jeans (KEK)

Physics potential and opportunity

Encourage and develop ideas for exploiting the physics potential of the ILC collider and by use of the beams available for more specialised experiments

Michael Peskin (SLAC), Junping Tian (Tokyo)
Aidan Robson (Glasgow)

IDT WG3 News

Meeting with ILC-Japan on Oct 26



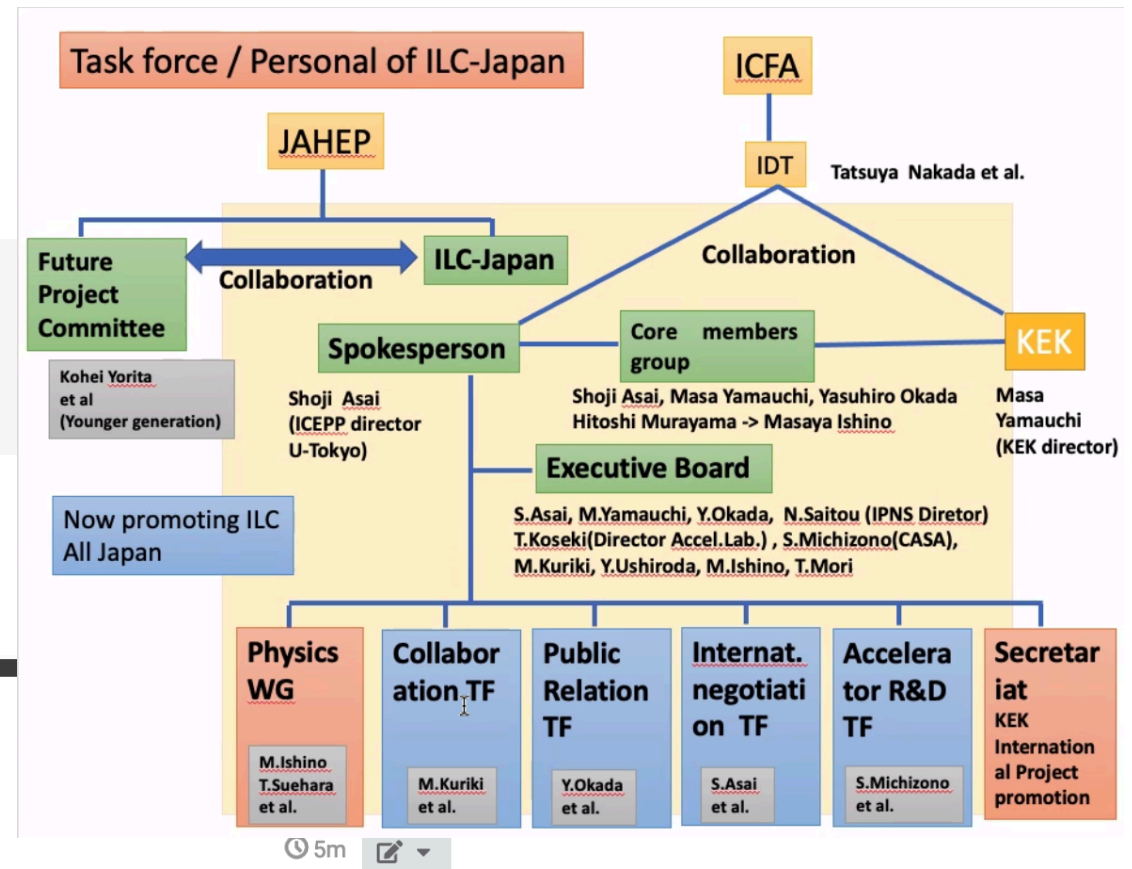
ILC-Japan, FPC, KEK & IDT-WG3

Wednesday 26 Oct 2022, 16:00 → 17:00 Europe/Zurich

Description <https://desy.zoom.us/j/64788247994>

Meeting ID: 647 8824 7994
Passcode: 314159

- 16:00** → 16:10 **Introduction and IDT-WG3 overview**
Speaker: Jenny List (Deutsches Elektronen-Synchrotron (DE))
- 16:10** → 16:15 **Overview ILC-Japan Physics WG**
Speaker: Taikan Suehara (Kyushu University)
- 16:15** → 16:20 **Overview ILC-Japan Collaboration Task Force**
Speaker: Prof. Masao Kuriki (Hiroshima U./KEK)
- 16:20** → 16:25 **Overview JAHEP Future Project Committee**
Speaker: Yutaro Iiyama (University of Tokyo (JP))
- 16:25** → 16:30 **Overview KEK IPNS Energy Frontier group R&D activities**
Speaker: Makoto Tomoto (High Energy Accelerator Research Organization (JP))
- 16:30** → 17:00 **Joined discussion**



IDT-WG3 participants:
Michael, Daniel, Jinlong, Roman, JL
Goal:
Identify concrete topics for joint activities as vehicle to avoid decoupling...

More WG3 news

expanding collaborations

- **WG3 met with representatives of ILC-Japan, KEK IPNS EF group and JAHEP's Future Project group**
 - identifying concrete topics in all WG3 areas for collaboration
 - will meet again beginning of December
 - my impression: we see a change of generations in ILC lobbying in Japan, both towards politics and towards the Japanese community
- **also explore joint activities with C³:**
 - starting with software
 - MDI as well as physics and detector technologies to follow
- **next LCWS at SLAC**
 - week of May 15 (incl ascension day May 18)
- **WG3 Open Physics meetings**
 - continue to be well attended
 - next **Nov 17/18**
<https://agenda.linearcollider.org/event/9683/>

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THURSDAY, 17 NOVEMBER

23:00 → 23:30 **How beam polarisation changes electroweak measurements at 250GeV**

Speaker: Jakob Beyer (DESY)

23:30 → 23:59 **Decoding Dark Matter at Future e+e- Colliders**

Speaker: Alexander Belyaev

FRIDAY, 18 NOVEMBER

00:00 → 00:30 **P-even, CP-violating Signals in Scalar-Mediated Processes**

Speaker: Howard Haber (University of California, Santa Cruz (US))

ECFA HF News

changing my hat

- **Workshop in October at DESY:** <https://indico.desy.de/event/33640/>
- mainly in-person, but zoom connection was provided - as well as recordings
- feed-back mixed:
 - many people enjoyed excellent talks, poster session and seeing each other
 - but some colleagues had hoped for wider participation and are worried whether the community has enough punch left to make this study (and any future collider?) a success
- will have IAC meeting next week to discuss further steps, and whether the plan proposed by the (ECFA) WG1/WG2/WG3 coordinators is appropriate (definition of concrete priority topics to be studied to go beyond Snowmass, steps towards report ect)
- **will have the next ECFA HF seminars:**
 - **Nov 25, with focus on flavour:** <https://indico.cern.ch/event/1218956/>
 - **Jan 20, with focus on top:** <https://indico.cern.ch/event/1219724/>

First ECFA WORKSHOP.

on e^+e^- Higgs / Electroweak / Top Factories
5-7 October 2022, DESY / Hamburg

Topics:

- Physics potential of future Higgs and electroweak/top factories
- Required precision (experimental and theoretical)
- EFT (global) interpretation of Higgs factory measurements
- Reconstruction and simulation
- Software
- Detector R&D

The European Committee for Future Accelerators (ECFA) organises a series of workshops on physics studies, experiment design and detector technologies towards a future electron-positron Higgs/Electroweak/Top factory.

The aim is to bring together the efforts of various e^+e^- projects, to share challenges and expertise, to explore synergies, and to respond coherently to this high-priority item of the European Strategy for Particle Physics

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