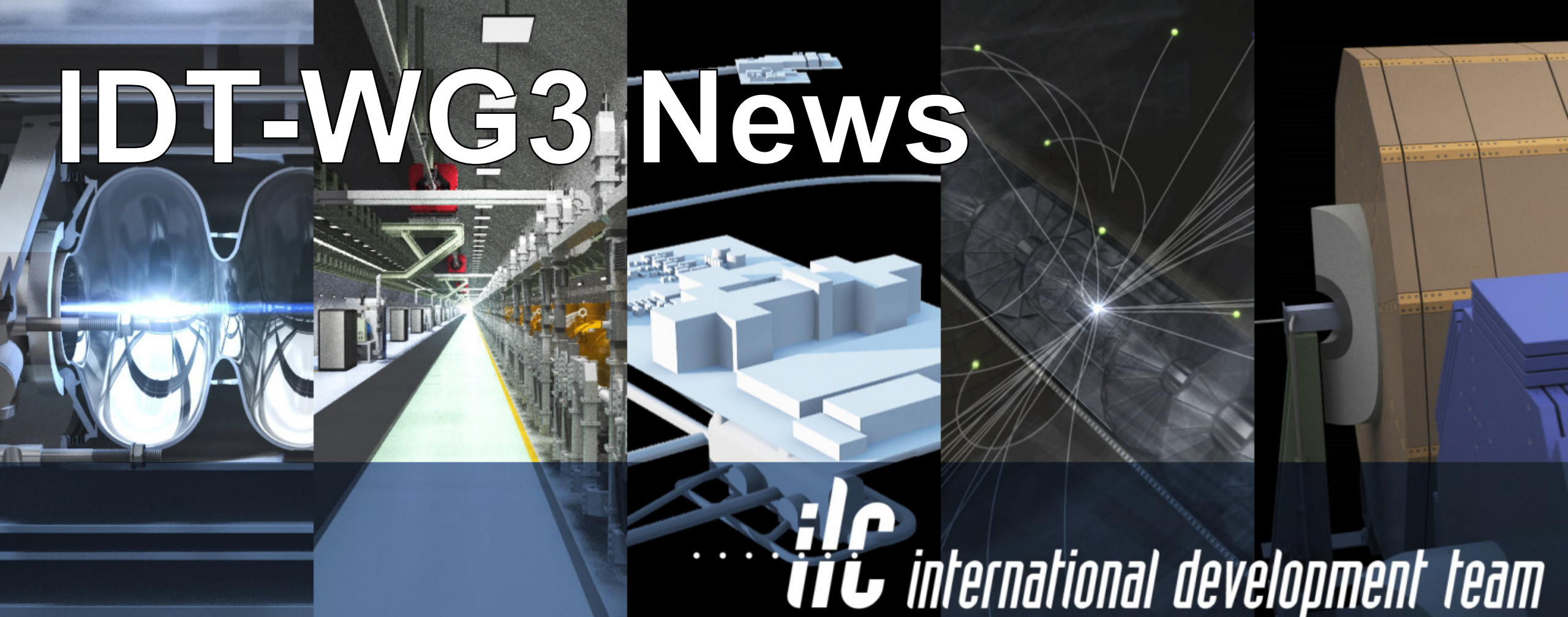
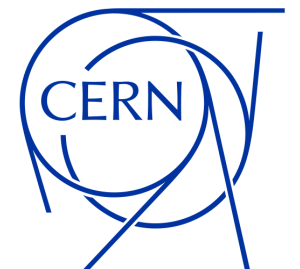


IDT-WG3 News



ilc international development team

Jenny List
ILC Europe meeting
8 Feb 2023



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)

Steering Group

Subgroup conveners, Coordinator and Deputy Coordinator(s)

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

Speaker's bureau

Andy White (UT Arlington), Ties Behnke (DESY), Yuanning Gao (Peking), Frank Simon (MPP), Jim Brau (Oregon), **NN (KEK/Japan)**, Phil Burrows (Oxford), Francesco Forti (INFN), Filip Zarnecki (Warsaw), **Shoji Asai (U Tokyo)**,
Patty McBride (Fermilab), Mihoko Nojiri (KEK), Timothy Nelson (SLAC), Kajari Mazumdar (Mumbai), Phillip Urquijo (Melbourne), Dmitri Denisov (Brookhaven), Hitoshi Murayama (Berkeley/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), **Tomoyuki Sanuki (Tohoku)**,
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

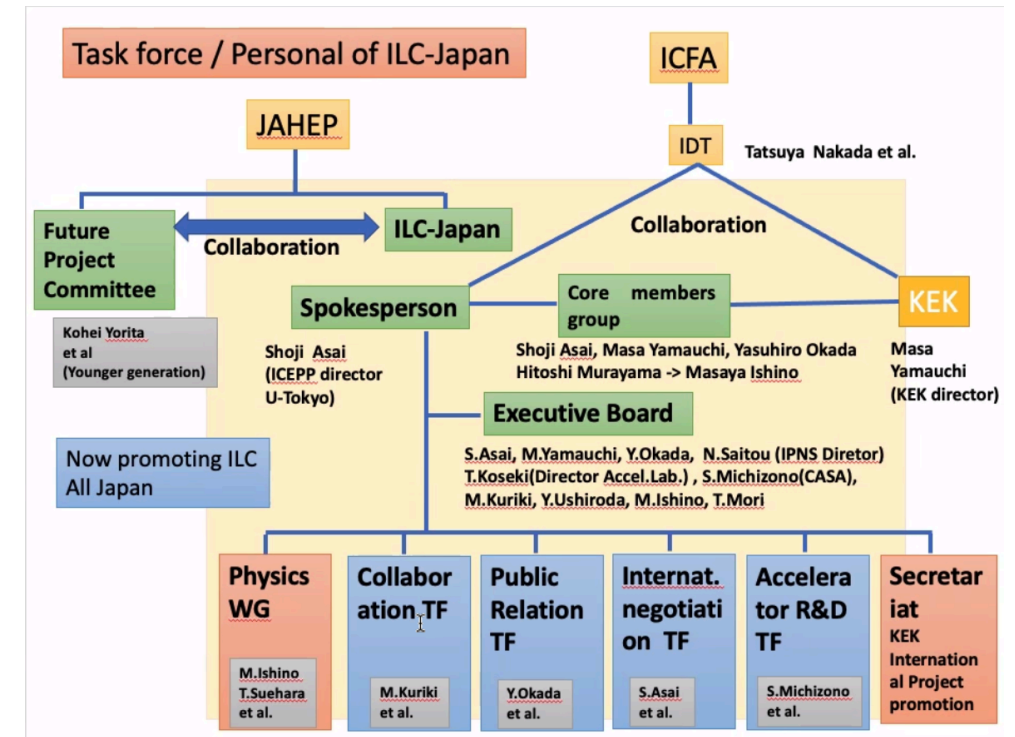
Encourage and develop ideas for exploiting the physics potential of the ILC collider and by use of the beams available for more specialised experiments

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

IDT WG3 Activities

Collaboration with ILC-Japan & Co

- **WG3 meets ~monthly with representatives of ILC-Japan, KEK IPNS EF group and JAHEP's Future Project group**
 - identified concrete topics in all WG3 areas for collaboration
- **identified concrete topics for collaboration with ILC-Japan and C³:**
 - Physics Potential: Higgs self-coupling
 - last & next open physics meeting
 - also working meetings of active people
 - Software: Flavour tagging etc with Machine Learning => mini-workshop in preparation
 - Detectors & Technologies: Fast timing detectors => mini-workshop in preparation (March 3)
 - MDI: backgrounds & Co => reaching out to Belle-II, C³, ...
- **WG3 Open Physics meetings**
 - continue to be well attended, though somewhat less now in US-friendly timezone (switch back to EU-friendly soon!)
 - next **Feb 9, 11pm: Dark sector & Higgs, BSM Higgs self-coupling**
 - <https://agenda.linearcollider.org/event/9882/>



IDT WG3 & Snowmass

& P5

- final version of ILC Whitepaper on arXiv, highly recommended to use as resource
 - many, many thanks to Michael Peskin, who (once more) drove this enormous editing effort!!!
- webpage with all Snowmass reports: <https://www.slac.stanford.edu/econf/C210711/index.html>
- webpage with all information about P5: <http://hitoshi.berkeley.edu/P5/>

The International Linear Collider: Report to Snowmass 2021

ILC International Development Team • Alexander Aryshev (KEK, Tsukuba) [Show All\(511\)](#)

Mar 14, 2022

356 pages

Contribution to: [2022 Snowmass Summer Study](#)

e-Print: [2203.07622](#) [physics.acc-ph]

Report number: DESY-22-045, IFT-UAM/CSIC-22-028, KEK Preprint 2021-61, IFT--UAM/CSIC--22-028, KEK Preprint 2021-61, PNNL-SA-160884, SLAC-PUB-17662, FERMILAB-FN-1171-PPD-QIS-SCD-TD, PNNL-SA-160884

View in: [HAL Science Ouverte](#), [OSTI Information Bridge Server](#), [CERN Document Server](#), [ADS Abstract Service](#)

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Citations per year

Year	Citations
2021	1
2022	62
2023	4

IDT WG3 - Speakers Bureau

ILC Talks etc

- very active Speakers' Bureau <https://linearcollider.org/team/wg3/speakers-bureau/> , idt-wg3-sb@ml.post.kek.jp
- e.g. plenary talks at
 - LISHEP, International School and Conference on High Energy Physics, Rio de Janeiro, Brazil, March 5-10 2023
 - International Conference on the Physics of the Two Infinities, Kyoto, March 27-30 2023
- also targeting
 - CORFU SUMMER INSTITUTE: Workshop on Future Accelerators, Corfu, Greece, 23-29 April 2023
 - Portorož 2023: Particle Physics from Early Universe to Future Colliders, Portorož, Slovenia (11-14 April 2023)
 - Les Houches Workshop Series 'Physics at TeV Colliders and Beyond the Standard Model', France, 12-30 June 2023
 - LeptonPhoton, EPS, ...

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Please let them know

- if you'd be available to give a talk (always looking for speakers!)
- if you've been invited to give a talk
- if you spot a conference where ILC should be present

LCWS

Program planning is starting

- WG3 suggested a substantial number of plenary talks which seem to make it into the program
 - joint plenary
 - 3x “physics”: e+e- high-energy (500+ GeV), e+e- lower energies (up to 380 GeV), non-collider
 - 3x “detectors”: fast timing, calorimetry for Higgs factories, detector concepts
 - Physics & detector plenary (room for up to 8!)
 - Key4HEP: Status & Transition plan
 - Particle ID & Flavour Tagging
 - ECFA Detector Roadmap implementation
 - Physics activities of ECFA Higgs factory study
 - collider background studies
- next step: speaker nominations - regionally balanced etc pp...
- **parallel session conveners start to be contacted - call for abstracts hopefully soon? with rather short deadline?**