

ILC Workshop on Potential Experiments (ILCX2021)



Tuesday 26 October 2021 - Friday 29 October 2021

Fully online format

Scientific Programme

Plenary sessions

Plenary session (Day 1)

Timetable:

<https://agenda.linearcollider.org/event/9211/sessions/5319/#20211026>

Chair:

Hitoshi Murayama (UC Berkeley / U. Tokyo)

Plenary session (Day 2)

Timetable:

<https://agenda.linearcollider.org/event/9211/sessions/5320/#20211027>

Chair:

Claude Vallée (CPPM - CNRS/IN2P3)

Plenary session (Day 3)

Timetable:

<https://agenda.linearcollider.org/event/9211/sessions/5321/#20211028>

Chair:

Jenny List (DESY)

Plenary session (Day 4)

Timetable:

(Summary 1) <https://agenda.linearcollider.org/event/9211/sessions/5322/#20211029>

(Summary 2) <https://agenda.linearcollider.org/event/9211/sessions/5323/#20211029>

(Final) <https://agenda.linearcollider.org/event/9211/sessions/5324/#20211029>

Chair:

(Summary 1) Yasuhiro Okada (KEK)

(Summary 2) Andrew Lankford (UC Irvine)

(Final) Geoffrey Taylor (U. Melbourne)

Industry forum

Timetable:

<https://agenda.linearcollider.org/event/9211/sessions/5325/#20211026>

Conveners:

Hugh Montgomery (JLab), Tohru Takahashi (Hiroshima U.), Maksym Titov (Irfu - CEA), Juan Fuster (IFIC)

Parallel sessions: Detectors

Session A: Software / Computing

Timetable:

[A-1] <https://agenda.linearcollider.org/event/9211/sessions/5245/#20211028>

[A-2] <https://agenda.linearcollider.org/event/9211/sessions/5246/#20211029>

[A&B] <https://agenda.linearcollider.org/event/9211/sessions/5247/#20211028>

Conveners:

Frank Gaede (DESY), Daniel Jeans (KEK), Jan Strube (PNNL / U. Oregon)

Session B: Calorimeters

Timetable:

[B-1] <https://agenda.linearcollider.org/event/9211/sessions/5248/#20211027>

[B-2] <https://agenda.linearcollider.org/event/9211/sessions/5249/#20211027>

[B-3] <https://agenda.linearcollider.org/event/9211/sessions/5250/#20211027>

[A&B] <https://agenda.linearcollider.org/event/9211/sessions/5247/#20211028>

Conveners:

Ivanka Božović-Jelisavčić (U. Belgrade), Katja Krueger (DESY), Taikan Suehara (Kyushu U.), David Miller (U. Chicago)

Session C: Tracking detectors

Timetable:

[C-1] <https://agenda.linearcollider.org/event/9211/sessions/5251/#20211028>

[C-2] <https://agenda.linearcollider.org/event/9211/sessions/5252/#20211029>

[C-3] <https://agenda.linearcollider.org/event/9211/sessions/5253/#20211028>

Conveners:

Alain Bellerive (Carleton U.), Dominik Dannheim (CERN), Akimasa Ishikawa (KEK), Marcel Stanitzki (DESY), Marcel Vos (IFIC – U. València)

Session D: New technologies & ideas for collider detectors

Timetable:

[D-1] <https://agenda.linearcollider.org/event/9211/sessions/5254/#20211027>

[D-2] <https://agenda.linearcollider.org/event/9211/sessions/5276/#20211027>

Conveners:

Sarah Eno (U. Maryland), Petra Merkel (FNAL), Yasuo Arai (KEK), Ivan Vila (IFCA)

Parallel sessions: Topical Groups

Session F: Higgs properties

Timetable:

[F&H-1] <https://agenda.linearcollider.org/event/9211/sessions/5328/#20211027>
[F&H-2] <https://agenda.linearcollider.org/event/9211/sessions/5329/#20211027>
[F-1] <https://agenda.linearcollider.org/event/9211/sessions/5255/#20211028>
[F-2] <https://agenda.linearcollider.org/event/9211/sessions/5256/#20211028>
[F-3] <https://agenda.linearcollider.org/event/9211/sessions/5257/#20211028>
[F-4] <https://agenda.linearcollider.org/event/9211/sessions/5258/#20211028>

Conveners:

Shinya Kanemura (Osaka U.), Patrick Meade (Stony Brook U.), Chris Potter (U. Oregon), Georg Weiglein (DESY)

Session G: Top / Heavy flavour / QCD

Timetable:

[G] <https://agenda.linearcollider.org/event/9211/sessions/5326/#20211027>

Conveners:

Adrian Irlles (IFIC - CSIC / U. València), Alexander Mitov (U. Cambridge), Hua-Xing Zhu (Zhejiang U.)

Session H: BSM particle production

Timetable:

[F&H-1] <https://agenda.linearcollider.org/event/9211/sessions/5328/#20211027>
[F&H-2] <https://agenda.linearcollider.org/event/9211/sessions/5329/#20211027>
[H-1] <https://agenda.linearcollider.org/event/9211/sessions/5259/#20211027>
[H-2] <https://agenda.linearcollider.org/event/9211/sessions/5260/#20211027>
[H-3] <https://agenda.linearcollider.org/event/9211/sessions/5261/#20211028>
[H&O] <https://agenda.linearcollider.org/event/9211/sessions/5275/#20211028>

Conveners:

Mikael Berggren (DESY), Shigeki Matsumoto (Kavli IPMU - U. Tokyo), Werner Porod (U. Würzburg), Simone Pagan Griso (CERN)

Session I: Electroweak physics

Timetable:

[I] <https://agenda.linearcollider.org/event/9211/sessions/5263/#20211027>
[K&I] <https://agenda.linearcollider.org/event/9211/sessions/5267/#20211028>

Conveners:

Wolfgang Kilian (U. Siegen), Mariarosaria D'Alfonso (MIT), Taikan Suehara (Kyushu U.), Graham Wilson (U. Kansas)

Session J: Global interpretations

Timetable:

[J] <https://agenda.linearcollider.org/event/9211/sessions/5264/#20211029>

Conveners:

Tim Cohen (U. Oregon), Christophe Grojean (DESY / Humboldt U. Berlin), Sven Heinemeyer (IFT -

UAM-CSIC), Sunghoon Jung (Seoul Nat'l U.)

Session K: Modeling & precision theory

Timetable:

[K&I] <https://agenda.linearcollider.org/event/9211/sessions/5267/#20211028>

Conveners:

Gudrun Heinrich (KIT), Stefan Hoeche (FNAL), Zhao Li (IHEP - CAS), Juergen Reuter (DESY)

Parallel sessions: Transversal Task Forces

Session L: MDI-CFS

Timetable:

[L&M&P-1] <https://agenda.linearcollider.org/event/9211/sessions/5268/#20211027>

[L&M&P-2] <https://agenda.linearcollider.org/event/9211/sessions/5269/#20211027>

[L&M&P-3] <https://agenda.linearcollider.org/event/9211/sessions/5270/#20211027>

Conveners:

Yasuhiro Sugimoto (KEK), Roman Pöschl (IJCLab - CNRS/IN2P3), Karsten Buesser (DESY), Hitoshi Hayano (KEK), Nobuhiro Terunuma (KEK), Tomoyuki Sanuki (Tohoku U.), Tom Markiewicz (SLAC)

MDI: Machine-Detector Interface

CFS: Conventional Facilities and Siting

Session M: MDI-BDS & physics

Timetable:

[L&M&P-1] <https://agenda.linearcollider.org/event/9211/sessions/5268/#20211027>

[L&M&P-2] <https://agenda.linearcollider.org/event/9211/sessions/5269/#20211027>

[L&M&P-3] <https://agenda.linearcollider.org/event/9211/sessions/5270/#20211027>

Conveners:

Roman Pöschl (IJCLab - CNRS/IN2P3), Karsten Buesser (DESY), Yasuhiro Sugimoto (KEK), Tom Markiewicz (SLAC)

MDI: Machine-Detector Interface

BDS: Beam Delivery System

Session N: Communication

Timetable:

[N] <https://agenda.linearcollider.org/event/9211/sessions/5271/#20211028>

Conveners:

Rika Takahashi (KEK), Hitoshi Murayama (UC Berkeley / U. Tokyo), Barbara Warmbein (CERN)

Session O: Fixed target / Dark sectors / Applications outside particle physics

Timetable:

[O-1] <https://agenda.linearcollider.org/event/9211/sessions/5273/#20211027>

[O-2] <https://agenda.linearcollider.org/event/9211/sessions/5274/#20211028>

[H&O] <https://agenda.linearcollider.org/event/9211/sessions/5275/#20211028>

Conveners:

Maxim Perelstein (Cornell U.), Stefania Gori (UCSC)

Parallel sessions: Engineering

Session P: Detector engineering

Timetable:

[L&M&P-1] <https://agenda.linearcollider.org/event/9211/sessions/5268/#20211027>

[L&M&P-2] <https://agenda.linearcollider.org/event/9211/sessions/5269/#20211027>

[L&M&P-3] <https://agenda.linearcollider.org/event/9211/sessions/5270/#20211027>

Conveners:

Joel Goldstein (U. Bristol), Karsten Buesser (DESY), Tom Markiewicz (SLAC), Yasuhiro Sugimoto (KEK)

Parallel sessions: Accelerators

Session Q: Machine - SRF

Timetable:

[Q-1] <https://agenda.linearcollider.org/event/9211/sessions/5277/#20211027>

[Q-2] <https://agenda.linearcollider.org/event/9211/sessions/5278/#20211028>

Conveners:

Yasuchika Yamamoto (KEK), Peter McIntosh (STFC)

SRF: Superconducting Radiofrequency

Session R: Machine - Sources

Timetable:

[R-1] <https://agenda.linearcollider.org/event/9211/sessions/5279/#20211027>

[R-2] <https://agenda.linearcollider.org/event/9211/sessions/5280/#20211028>

Conveners:

Masao Kuriki (Hiroshima U.)

Session S: ILC application (to physics, material science, etc.)

Timetable:

[S] <https://agenda.linearcollider.org/event/9211/sessions/5285/#20211027>

Conveners:

Yoshihisa Iwashita (Kyoto U.), Hitoshi Murayama (UC Berkeley / U. Tokyo)

Parallel sessions: Alternative

Session V: Alternative collider modes

Timetable:

[V] <https://agenda.linearcollider.org/event/9211/sessions/5287/#20211028>

Conveners:

Gudrid Moortgat-Pick (DESY), Hitoshi Murayama (UC Berkeley / U. Tokyo), Tim Barklow (SLAC), Valery Telnov (BINP / Novosibirsk State U.), Alexey Drutskey (LPI RAS)

Parallel sessions: Sustainability

Session W: Green ILC

Timetable:

[W-1] <https://agenda.linearcollider.org/event/9211/sessions/5289/#20211028>

[W-2] <https://agenda.linearcollider.org/event/9211/sessions/5290/#20211028>

Conveners:

Takayuki Saeki (KEK), Steinar Stapnes (CERN), Hitoshi Hayano (KEK)