ILC and CLIC Project Status and Plans

Thursday 18 July 2024 08:48 (18 minutes)

The International Linear Collider (ILC) and Compact Linear Collider (CLIC) are well-developed with mature and resource-conscious designs as next-generation high-energy electron-positron colliders. With their key features of polarised beams and extendable energy reach they offer unique possibilities to explore the Higgs boson, the electroweak gauge bosons, the top quark as well as beyond Standard Model sectors. An overview and status of each collider project will be given, including the design, key technologies, accelerator systems, energy-staging strategies, and the most recent cost and power estimates. An overview of the ongoing development strategy for each project over the next 4-5 years will be presented, as well as possible long-term visions for a linear collider facility.

Alternate track

I read the instructions above

Yes

Author: LIST, Jenny (Deutsches Elektronen-Synchrotron (DE))

Co-authors: LANKFORD, Andrew James (University of California Irvine (US)); Dr FAUS-GOLFE, Angeles (IJClab IN2P3 CNRS-Université Paris-Saclay (FR)); TAYLOR, Geoffrey (University of Melbourne); BURROWS, Philip Nicholas (University of Oxford (GB)); MICHIZONO, Shinichiro; STAPNES, Steinar (CERN); NAKADA, Tatsuya (EPFL - Ecole Polytechnique Federale Lausanne (CH))

Presenter: LIST, Jenny (Deutsches Elektronen-Synchrotron (DE))

Session Classification: Accelerators: Physics, Performance, and R&D for future facilities

Track Classification: 11. Accelerator: Physics, Performance, and R&D for Future Facilities