

Contribution ID: 528 Type: Parallel

A Linear Collider Vision for the Future of Particle Physics

We review linear e+e- colliders with a special focus on high centre-of-mass energies and beam polarisation, take a fresh look at the various accelerator technologies available or under development and, for the first time, discuss how a facility first equipped with a technology mature today could be upgraded with technologies of tomorrow to reach much higher energies and/or luminosities. In addition, we will discuss alternative collider modes, as well as opportunities for beyond-collider experiments and R&D facilities as part of a linear collider facility (LCF). The material of this presentation will support all plans for e+e- linear colliders and additional opportunities they offer, independently of technology choice or proposed site, as well as R&D for advanced accelerator technologies. This joint perspective on the physics goals, early technologies and upgrade strategies has been developed by the LCVision team. It heavily builds on decades of achievements of the global linear collider community, in particular in the context of ILC, CLIC and C3, and recent highlights of the projects will also be presented.

Secondary track

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Session Classification: T13

Track Classification: T13 - Accelerators for HEP