

Table of Contents

La Thuile 2019 Abstracts.....	1
News on the CLIC physics potential.....	1

Abstracts

News on the CLIC physics potential

- Speaker: TBA
- Status: Rejected
- Abstract: The Compact Linear Collider (CLIC) is a proposed TeV-scale high-luminosity electron-positron collider. For an optimal exploitation of its physics potential, CLIC is foreseen to be built and operated in three stages, with centre-of-mass energies ranging from 380 GeV up to 3 TeV. Electron beam polarisation is provided at all energies. The initial energy stage will focus on precision measurements of Higgs-boson and top-quark properties. The subsequent energy stages enhance the reach of many direct and indirect searches for new physics Beyond Standard Model and give access to the Higgs self-coupling. Higgs and top-quark projections have been evaluated using full detector simulation studies. Many new phenomenology studies have been undertaken to explore the BSM reach of CLIC, from EFT interpretations of precision measurements through to signature-based searches; these include flavour dynamics, and dark matter and heavy neutrino searches. This talk will review some of the latest results that demonstrate the outstanding potential of CLIC in many physics domains.

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