

Higgs 2021



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C3: An Advanced Concept for a e^+e^- Linear Collider

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The goal of a next-generation e^+e^- collider is to carry out precision measurements to per-cent level of the Higgs boson properties that are not accessible at the LHC and HL-LHC. In this talk will we present the study of a new concept for a high gradient, high power accelerator with beam characteristics suitable to study the Higgs boson, the Cool Copper Collider (C3), with the goal of significantly reducing capital and operating costs. We will present a timeline for such a collider to enable Higgs boson precision measurements exploring increasing energies for the center-of-mass collisions. The exploitation of the complementarity between HL-LHC and future e^+e^- colliders will be the key to exploring the Higgs sector.

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