



Contribution ID: 72

Type: **not specified**

Potential of the Compact Linear Collider (CLIC) to measure branching fraction of the Higgs to ZZ^* decays 350 GeV and 3 TeV center-of-mass energy

Tuesday, 16 March 2021 07:20 (20 minutes)

As a multi-TeV energy-staged machine, CLIC offers millions of Higgs bosons to be produced in a low-background environment enabling measurements of most of the Higgs couplings at a few per mille level. To this end, individual measurements at different CLIC energy stages, in various Higgs production and decay channels, are subjects of global fits of the Higgs properties in model-independent or dependent way (κ -framework, EFT fit). In this talk we discuss measurements of $R(\rightarrow Z^* \rightarrow)(= e^\pm, \mu^\pm)$ at 350 GeV and 3 TeV center-of-mass energies from the perspective of their statistical precision.

Time Zone

Europe/Africa/Middle East

Primary author: Ms VUKASINOVIC, Natasa (VINCA Institute of Nuclear Sciences, University of Belgrade)

Co-authors: Dr BOZOVIC JELISAVCIC, Ivanka (VINCA Institute of Nuclear Sciences, University of Belgrade); Dr SMILJANIC, Ivan (VINCA Institute of Nuclear Sciences, University of Belgrade); Mr KACAREVIC, Goran (VINCA Institute of Nuclear Sciences, University of Belgrade); Dr MILUTINOVIC DUMBELOVIC, Gordana (VINCA Institute of Nuclear Sciences, University of Belgrade); Dr AGATONOVIC JOVIN, Tatjana (VINCA Institute of Nuclear Sciences, University of Belgrade); Dr RADULOVIC, Mirko (Faculty of Science, University of Kragujevac); Dr STEVANOVIC, Jasna (Faculty of Science, University of Kragujevac)

Presenter: Ms VUKASINOVIC, Natasa (VINCA Institute of Nuclear Sciences, University of Belgrade)

Session Classification: PD3: Physics Analyses

Track Classification: Physics and Detectors Tracks: PD3: Physics Analyses