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page: 1

[SUMMARY\(2\)](#)

Submission of CLIC Detector and Physics Study Publication

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Title:*

Category: *(cannot be changed later)*

Description/Abstract:

e+e- collider proposed as the next generation infrastructure at CERN, has been tested for two high-energy running stages, at 1.5 TeV and 3 TeV centre-of-mass energy. The CLIC sensitivity to pair-production of the charged IDM scalars was studied using the full detector simulation with GEANT4 for selected high-mass IDM benchmark scenarios and the semi-leptonic final state. To extrapolate full simulation results to a wider range of IDM benchmark scenarios, the CLIC detector model defined in the DELPHES fast simulation framework was modified to take into account the $\gamma\gamma \rightarrow \text{had.}$ beam-induced background. Results of the study indicate that heavy charged IDM scalars can be discovered at CLIC for most of the considered benchmark scenarios, up to masses of the order of 1 TeV.

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Publication Information:

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DOI: suggested format **10.1000/xyz123**

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