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Particle Discovery Opportunities at the International Linear Collider

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Summary

Future e^+e^- colliders will offer possibilities to search for new particles in a manner very complementary to the searches planned for HL-LHC. ILC, in particular, will operate triggerlessly, with sensitivity to very small energy depositions, and with beam polarization to both control and measure crucial backgrounds. In this contribution we will discuss the potential of ILC to discover new particles both in e^+e^- pair production and in Higgs boson decays. Examples will be given for models of dark matter, SUSY, and extended Higgs sectors, as well as for general light particle searches.

Primary authors: EIGEN, Gerald (University of Bergen (NO)); LIST, Jenny (Deutsches Elektronen-Synchrotron (DE))

Presenter: LIST, Jenny (Deutsches Elektronen-Synchrotron (DE))

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