EPS-HEP2019



Contribution ID: 378 Type: Parallel talk

Particle Discovery Opportunities at the International Linear Collider

Friday, July 12, 2019 5:30 PM (15 minutes)

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 give 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)); HABERMEHL, Moritz (Deutsches Elektro-

nen-Synchrotron (DE))

Presenter: HABERMEHL, Moritz (Deutsches Elektronen-Synchrotron (DE))

Session Classification: Searches for New Physics

Track Classification: Searches for New Physics