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Discovery potential of a high-luminosity Z, W, Higgs and top factory (15' + 5')

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The design study of the Future Circular Colliders at CERN comprises a high-luminosity e+e- storage ring collider (FCC-ee), leading to the observation of 1012/13Z decays, a million tagged Higgs decays at the ZH threshold, and over a million tops around the top-quark pair threshold. Physics beyond the Standard Model can manifest itself by significant deviations in the precision electroweak measurements, by the observation of flavour changing neutral currents or lepton-flavour-violating decays, by the precise measurements of the Z and H invisible decay widths, or by direct observation of particles with extremely weak couplings, such as right-handed neutrinos and other long-lived particles.

Author: FAN, JiJi (Brown University)

Presenter: FAN, JiJi (Brown University)

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