Contribution ID: **16** Type: **not specified**

Physics at FCC

Monday, 28 June 2021 14:00 (45 minutes)

In this talk, I will give a broad overview of the physics case for the FCC. I will review the puzzles of the Standard Model and opportunities to go beyond it, and discuss how the FCC plans fit in this context. FCC-ee can provide a major boost to the precision study of the Standard Model and electroweak symmetry breaking, while also offering opportunities to search for new physics. FCC-hh will provide a new energy frontier with potential direct access to new physics, as well as opportunities for further precision measurements, such as the Higgs self-coupling. The combination of the two is a logical path forward that can define the agenda of particle physics well into the 21st century.

Primary author: REECE, Matthew (Harvard University)

Presenter: REECE, Matthew (Harvard University)

Session Classification: Physics, Experiments & Detectors

Track Classification: Physics & Experiments: Physics programme