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## FCC as a Tera-Z-plus flavor factory

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Recent studies reveal the potential of the Tera-Z phase of the Future Circular Collider (FCC) for advancing our understanding of flavor physics. By operating at the Z-pole, the FCC enables the production of vast amounts of heavy flavor final states, making it an ideal platform to study Standard Model (SM) and Beyond Standard Model (BSM) physics. With a high integrated luminosity and large cross-sections for heavy flavor production, the FCC will generate an abundance of b, c, and tau pairs. The surplus of energy from Z decays allows for the creation of various hadrons, including rare and exotic species, and facilitates the investigation of extremely rare decay modes. Additionally, unexpected discoveries may arise from phases beyond the Z-pole run, such as the WW-threshold or Higgs factory phases.

**Primary author:** LI, LINGFENG (Brown U.)**Presenter:** LI, LINGFENG (Brown U.)**Session Classification:** Poster session and Wine & cheese**Track Classification:** PE&D posters