Contribution ID: **10** Type: **not specified**

The measurement of H->cc/ss at the Circular Electron-Positron Collider

The measurement of Higgs decays to charm or strange quarks is crucial for probing the Higgs couplings to second-generation fermions. The electron-positron collider offers a clean collision environment with minimal QCD backgrounds, providing an excellent opportunity to study these couplings. By leveraging advanced deep learning techniques, the precision of the signal strength measurements for H $\longrightarrow$ cc and H $\longrightarrow$ ss can be improved by a factor of two to three compared to traditional cut-based methods at the Circular Electron-Positron Collider (CEPC).

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Session Classification: Poster Session

Track Classification: Scientific Program: Rare Decays