



Contribution ID: 94

Type: ORAL

Strange tagging with ILD full simulation and application to H \rightarrow ss analysis

Wednesday 9 October 2024 11:20 (14 minutes)

Higgs to ss analysis is one of the ECFA HTE focused topics. We are working on the H \rightarrow ss analysis using ILD full simulation based on a previous ILD study on H \rightarrow bb/cc/gg branching ratio measurement and a latest DNN-based jet flavor tagging tool. This talk will focus on the application of strange tagging to the H \rightarrow ss analysis including performance studies of strange tagging as well as results on H \rightarrow ss sensitivity on ILD. Dependence on PID performance or detector configuration can be discussed as well.

(Details of analysis may be shown on a separate poster to be submitted by our student.)

Primary authors: Dr SUEHARA, Taikan (ICEPP, The University of Tokyo); TAGAMI, Risako (U. Tokyo); SUGAWARA, Ryuki (Iwate U.); HOSOKAWA, Ritsuya (Iwate U.); NARITA, Shinya (Iwate U.); TANABE, Tomohiko (MI-6 Ltd.)

Presenter: Dr SUEHARA, Taikan (ICEPP, The University of Tokyo)

Session Classification: Parallel - WG1-HTE

Track Classification: WG1: WG1-HTE - Physics Potential: Higgs, top and electroweak