



Contribution ID: 1322

Type: **Higgs**

## Higgs Production in Association with a Dark-Z at Future Electron Positron Colliders

*Wednesday 26 May 2021 15:15 (15 minutes)*

In recent years there have been many proposals for new electron-positron colliders, such as the Circular Electron-Positron Collider, the International Linear Collider, and the Future Circular Collider in electron-positron mode. Much of the motivation for these colliders is precision measurements of the Higgs boson and searches for new electroweak states. In this talk, we propose a new search for Higgs physics below the  $HZ$  threshold. In particular, we propose a new light gauge boson that can be studied through pair production with the Higgs and perform a collider study to show the possibility of detecting this process in electron-positron colliders.

### Summary

**Authors:** GIFFIN, Pierce (University of California, Santa Cruz); LEWIS, Ian (The University of Kansas); ZHENG, Ya-Juan

**Presenter:** GIFFIN, Pierce (University of California, Santa Cruz)

**Session Classification:** Higgs III