

Phenomenology 2021 Symposium



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

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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

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