



Contribution ID: 548

Type: **Parallel session talk**

Search for new particles at the ILC

Wednesday 23 August 2023 17:10 (15 minutes)

Although the LHC experiments have searched for and excluded many proposed new particles up to masses close to 1 TeV, there are many scenarios that are difficult to address at a hadron collider. This talk will review a number of these scenarios and present the expectations for searches at an electron-positron collider such as the International Linear Collider.

The cases discussed include SUSY in strongly or moderately compressed models, heavy neutrinos, heavy vector bosons coupling to the s-channel in e^+e^- annihilation, and new scalars.

Collaboration / Activity

ILC-IDT-WG3

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Session Classification: T10 Searches for New Physics

Track Classification: Searches for New Physics