



Contribution ID: 434

Type: **not specified**

ATLAS searches for supersymmetry with long-lived particles

Wednesday 25 August 2021 17:40 (20 minutes)

Various Supersymmetry (SUSY) scenarios, including split SUSY and anomaly or gravity-mediated SUSY-breaking scenarios, lead to signatures with long-lived particles. Searches for these processes may target either the long lived particle itself or its decay products at a significant distance from the collision point. These signatures provide interesting technical challenges due to their special reconstruction requirements as well as their unusual backgrounds. This talk will present recent results in long-lived SUSY searches using ATLAS Run 2 data.

Author: THOMPSON, Emily Anne (DESY)

Presenter: THOMPSON, Emily Anne (DESY)

Session Classification: Supersymmetry: Models, Phenomenology and Experimental Results

Track Classification: Supersymmetry: Models, Phenomenology and Experimental Results