



Contribution ID: 221

Type: **Oral Presentation**

Search for neutral long-lived particles decaying into displaced jets in the ATLAS calorimeter

Monday, 29 July 2019 14:00 (15 minutes)

New long-lived particles (LLPs) are a feature of many extensions to the Standard Model and may elude searches for promptly decaying particles. An analysis of data collected in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector at the Large Hadron Collider is described, focusing on identifying signatures of jets produced by LLPs decaying to Standard Model fermions within the ATLAS calorimeter system. The most recent results of this analysis, published this year using data collected in 2016, are presented, and plans for improving this analysis with the full Run 2 dataset (2015-2018) are summarized.

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Session Classification: Beyond Standard Model

Track Classification: Beyond Standard Model Physics