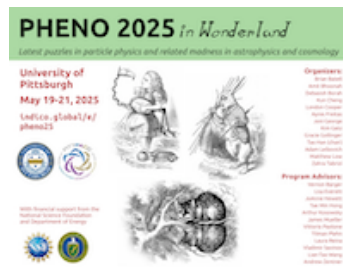


## Phenomenology 2025 Symposium



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## Unconventional Searches using the ATLAS Detector

*Tuesday 20 May 2025 16:30 (15 minutes)*

Many theories beyond the Standard Model (SM) have been proposed to address several of the SM shortcomings. Some of these beyond-the-SM extensions predict new particles or interactions directly accessible at the LHC, but which would leave unconventional signatures in the ATLAS detector. These unconventional signatures require special techniques and reconstruction algorithms to be developed, enabling analysers to perform unique searches for new physics. Conversely, some searches for more standard models also make use of unconventional workflows to improve sensitivity. This talk will cover several such recent searches at ATLAS.

### Mini Symposia (Invited Talks Only)

### Plenary (Invited talks only)

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**Presenter:** JOHNS, Kenneth (University of Arizona (US))

**Session Classification:** Electroweak

**Track Classification:** Electroweak, Higgs, and Top Quark Physics