

# Phenomenology 2025 Symposium



Contribution ID: 61

Type: **not specified**

## Almost Minimal Dark Matter

*Monday 19 May 2025 14:15 (15 minutes)*

Numerous models of particle dark matter have been proposed, many of which remain viable given current experimental and observational constraints. Minimal dark matter is an extremely attractive option since it envisions the addition of a single  $SU(2)$  multiplet to the standard model, rather than a complicated array of particles and interactions. However, experimental limits already rule out a subset of minimal dark matter possibilities and are approaching the predicted phase space of the remaining candidates. We consider extensions to the minimal dark matter paradigm, particularly a combination of two multiplets with a Higgs coupling, and the non-perturbative effects which may alleviate this experimental pressure.

### Mini Symposia (Invited Talks Only)

### Plenary (Invited talks only)

**Author:** GRIFFITH, Spencer (Ohio State University)

**Presenter:** GRIFFITH, Spencer (Ohio State University)

**Session Classification:** Dark Matter

**Track Classification:** Dark Matter Theory and Detection