

# Phenomenology 2025 Symposium



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## Searches in CMS for long-lived particles

*Tuesday 20 May 2025 17:00 (15 minutes)*

Many models beyond the standard model predict new particles with long lifetimes. These long-lived particles (LLPs) decay significantly displaced from their initial production vertex thus giving rise to non-conventional signatures in the detector. Dedicated triggers and innovative usage of the CMS detector are exploited in this context to significantly boost the sensitivity of such searches at CMS. We present recent results of searches for long-lived particles obtained using data recorded by the CMS experiment during the completed Run 2 and the ongoing Run 3 of the LHC.

### Mini Symposia (Invited Talks Only)

### Plenary (Invited talks only)

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