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Searches for BSM physics using challenging and long-lived signatures with the ATLAS detector

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Many Beyond the Standard Model (BSM) theories predict the existence of long-lived particles (LLPs), which can exhibit unusual experimental signatures. Standard reconstruction algorithms may inadvertently reject events or objects containing LLPs. Therefore, dedicated searches are essential to uncover LLP signals. This presentation will discuss the recent results from LLP searches with the ATLAS detector.

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