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Searches for long-lived particles in Hidden Valley scenarios with the ATLAS detector at the LHC

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Searches for long-lived neutral particles decaying into hadronic jets have been performed with the ATLAS detector. The search strategy depends on the lifetime and mass of such particles, and experimental techniques to reconstruct decay vertices in various ATLAS detector components have been developed. This talk summarizes ATLAS searches for long-lived particles and their connection to hidden sectors with LHC Run 1 data. First LHC Run-2 results will be included if available.

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