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Preliminary results from the proANUBIS demonstrator with 104 fb-1 of Run 3 LHC data

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The proposed AN Underground Belayed In-Shaft (ANUBIS) experiment aims to search for long-lived particles within ATLAS underground cavern as a valuable addition to the dark matter programme at the CERN Large Hadron Collider. A prototype detector, proANUBIS, has been installed in ATLAS'cavern and has been collecting data since 2024. This data will allow for studies of the expected backgrounds for the ANUBIS experiment and the development of analysis tools that would allow for the synchronisation with ATLAS events. We will report on the current analysis efforts using the 104 fb-1 dataset from 2024, hardware developments and the latest sensitivity projections.

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