

Phenomenology 2023 Symposium



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Reconstruction, Trigger Efficiency and Exclusion Studies for MATHUSLA

Tuesday, 9 May 2023 15:30 (15 minutes)

MATHUSLA (MASSive Timing Hodoscope for Ultra-Stable neutral pArticles) is a proposed detector at the LHC to search for Long Lived Particles (LLP). We present various trigger and efficiency studies crucial to determining the final design and sensor geometry of the detector. We also present exclusion plots for BSM models taking into account the actual expected geometric acceptance of MATHUSLA.

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