

Searching for long-lived particles at the LHC and beyond: Ninth workshop of the LLP Community



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Long-lived $\tilde{b}\nu_o$ at the LHC

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A pseudo-Dirac bino could be responsible for generating neutrino masses in R-symmetric MSSM. We show that this bino, which we rename $\tilde{b}\nu_o$ can be long lived in certain parameter regions and could be searched for in proposed experiments like MATHUSLA and CODEX-b. These experiments can probe $\tilde{b}\nu_o$ masses of 10 GeV-2 TeV and SUSY messenger scales 10^{2-11} TeV for a range of squark masses.

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