

Searches for Supersymmetry in final states with leptons

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We present methods for background determinations in SUSY searches with signatures involving like-sign dileptons or tri-leptons. These signatures have very low expected backgrounds in the Standard Model and have the characteristics of a rare search in which one searches for a small signal over a very small background. We present early results from studies of methods for data-driven background determinations in 7 TeV data.

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