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Consistent excesses in SUSY searches at the LHC: Physics case for a Linear Collider

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Recently ATLAS and CMS published search results in the search for SUSY particle production channel $pp \rightarrow \tilde{\chi}_2^0 \tilde{\chi}_1^\pm$ in three different final states ($3l$, $2l$ and mono-jet). All searches in both experiments show consistent (small) excesses for $m_{\tilde{\chi}_2^0} \approx m_{\tilde{\chi}_1^\pm} \approx m_{\tilde{\chi}_1^0} + 20$ GeV. We discuss these excesses and their implications for an e^+e^- collider operating at an energy of 500 GeV.

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