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Search for charginos and neutralinos in final states with two boosted hadronically decaying bosons and missing transverse momentum with the ATLAS experiment

Searches for electroweakinos light enough to be produced at the LHC are well motivated by consideration on dark matter, naturalness and the recently observed muon g-2 anomaly. This talk presents a search for electroweakinos in fully-hadronic final states to exploit the advantage of the large branching ratio, and the efficient background rejection by identifying the high-pT bosons using large-radius jets and jet substructure information. Compared to the more traditionally considered lepton final states, it allows to reach sensitivity to higher electroweakinos masses and to set strong limits on a variety of simplified models. For example, for the case of the wino-bino simplified model a wino mass up to 1060 GeV is excluded. Additionally, more concrete complete models and parameter scans are also considered.

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