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Scale invariant SUSY search with simplified topologies

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Due to the unknown stop, sbottom and neutralino masses, very different event shapes for squark pair production are imaginable, ranging from unboosted top/bottom quarks and low missing energy to highly boosted top/bottom quarks and large missing energy in the final state. In order to cover a wide range of possible event shapes and consequently stop, sbottom, and neutralino masses, we combined several top taggers based on jet substructure techniques to obtain a scale invariant search strategy. The performance of this approach is shown in a collider study.

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