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Search for squarks and gluinos in final states with jets and missing transverse momentum using 139 fb-1 of $\sqrt{s}=13$ TeV pp collision data with the ATLAS detector

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A search for the supersymmetric partners of quarks and gluons (squarks and gluinos) in final states containing hadronic jets and missing transverse momentum, but no electrons or muons, is presented. Two analysis techniques, the multi-bin fit and multi-variate analysis, are newly introduced in order to further discriminate target signals and backgrounds. Starting from the definition of the analysis methods, recent ATLAS results obtained with these techniques using the full Run 2 dataset corresponding to 139 fb-1 are shown.

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