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

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Summary

Supersymmetry is one of the most promising theories which extends the Standard Model in order to solve the dark matter and the hierarchy problems. The squark and gluino are one of primary targets in supersymmetry searches, as their pair production has a large cross section at the LHC via strong interaction. In a search for squarks and gluinos in final states with jet and missing transverse momentum, multi-bin and multivariate techniques are newly introduced. In this talk, recent ATLAS results with these techniques using the full Run 2 dataset corresponding to 139 fb^{-1} are shown.

Presenter: UNO, Kenta (University of Tokyo (JP))

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