

Searches for rare top quark couplings with the ATLAS detector

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The top quark is the heaviest known fundamental particle and probing its couplings with the other fundamental particle may open a window to physics beyond the Standard Model. Searches for flavour-changing neutral current top-quark interactions are discussed based on the 13 TeV ATLAS dataset. Searches for rare top quark decays to Higgs and Z bosons are presented in top quark pair production, and searches for rare top quark interactions with gluons and Z bosons are presented in single top quark production.

Presenter: Dr XIA, Ligang (University of Warwick (GB))

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