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**Search for new quarks with the ATLAS detector (15'
+ 5')**

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New quarks appear in many beyond the Standard Model trying to cancel the mass divergence for the Higgs boson. The current status of the ATLAS searches for single production of such new quarks will be reviewed, addressing the used analysis techniques, in particular the selection criteria, the background modelling and the related experimental uncertainties. The phenomenological implications of the obtained results will also be discussed.

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Session Classification: Beyond the Standard Model

Track Classification: Beyond the Standard Model