

Search for new resonances decaying into a top-anti-top pair with the ATLAS detector

Friday, 3 January 2020 18:20 (20 minutes)

A search for $t\bar{t}$ resonances in the fully hadronic final states is performed using data collected at $\sqrt{s} = 13$ TeV in 2015-2018, requiring the hadronically decaying top-quarks to be identified using large-radius jets with jet substructure information and associated smaller radius jets identified as originating from b-quarks. The analysis aims to improve the search sensitivity at high mass by exploiting advanced techniques on the top- and b-quark identification as well as the background estimate directly performed from data by fitting with a smoothly falling function.

Primary author: POULSEN, Trine (Lund University)

Presenter: POULSEN, Trine (Lund University)

Session Classification: submitted talks