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

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A search for ttbar resonances in the fully hadronic final states is performed using data collected at √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.

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