

# Direct measurement of the top-quark decay width

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A direct measurement of the top-quark decay width using full Run 2 dataset will be presented. The measurement exploits both lepton+jets and dilepton decays of the  $t\bar{t}$  pairs. A modified version of a profile likelihood technique has been developed to incorporate multiple templates to extract the decay width. The modification as well as various cross-checks that have been done to validate the technique will be presented.

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