

## 8th RED LHC workshop



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# Direct measurement of the top-quark mass with ATLAS

In this talk, the measurement of the top-quark mass in top-quark pair production using the full Run 2 dataset collected with the ATLAS experiment at  $\sqrt{s} = 13$  TeV will be presented. The measurement is carried out in the dilepton channel using a template method. The talk will have a special emphasis on the theoretical uncertainties affecting experimental measurements of the top-quark mass, as more and more often, these are becoming the limiting factors to further improve the precision of current measurements. Recent developments in the ATLAS collaboration towards an improved modelling of the top-quark pair production will be discussed.

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