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Exclusive dilepton production in proton-proton collision at 13 TeV with the ATLAS detector

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In proton-proton collisions, quasi-real photons can be emitted and their interaction can produce various final states. One such final state is a pair of leptons. The exclusive production of dileptons can be calculated in QED with small uncertainty. Since only two back-to-back leptons are present in the detector, the process can be clearly distinguished from background. This allows to compare the predicted and measured cross-section.

This talk aims to explain details of the measurement of such process and presents results from 7 and 8 TeV performed at the LHC. The current status of the 13 TeV analysis of this process in the ATLAS experiment will be also presented.

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