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Pair photon production in the parton Reggeization approach.

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Today, photon pair production is the subject of active experimental and theoretical studies. This process has a number of unique features that make it an important tool for physical analysis. In this work we calculate differential cross sections for pair production of isolated photons within the parton Reggeization approach (PRA) [1] at energies of 1.96, 7, and 13 TeV. The calculations were performed within the KaTie parton-level event generator [2] and modified KMRW unintegrated parton distribution functions [3]. The results were compared with experimental data obtained by the ATLAS and CDF collaborations and with results of early calculations in the PRA [4].

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