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## Observation of the $WWW$ production in $p$ - $p$ collision at $\sqrt{s} = 13$ TeV with the ATLAS detector

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The observation and cross-section measurements of the  $WWW$  production using Run II data of the ATLAS detector with an integrated luminosity of  $139 \text{ fb}^{-1}$  at  $\sqrt{s} = 13$  TeV are presented. Measurements are performed in two final states. In two leptons final state,  $WWW$  decays into two same-sign leptons associated with two jets are selected whereas, three leptons final state contains three leptons without any same-flavor opposite sign leptons. In the Run II analysis, the background reduction method is updated using machine learning techniques.

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