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Femtoscopy with ALICE at the LHC

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Femtoscopy allows to measure the space-time characteristics of particle production using correlations resulting from the effects of quantum statistics and final state interactions. We present the recent results of femtoscopic analyses for different two-particle systems measured by ALICE in Pb-Pb, p-Pb and pp collisions, pointing out the similarities and differences between small and large systems. Results for kaons provide a cross-check of the information about the dynamics of the source and the importance of the hadronic rescattering phase. The femtoscopic studies of baryon-(anti-)baryon, and kaon pairs provides an unique opportunity to extract the strong interaction parameters and cross-sections of these particle pairs.

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