Non-identical particle femtoscopy in Pb-Pb collisions at $\sqrt{s_{NN}}$ = 2.76 TeV with ALICE at the LHC

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Two-particle femtoscopic correlations between non-identical charged particles for different charge combinations are measured in Pb-Pb collisions at $\sqrt{s_{\rm NN}} = 2.76$ TeV with ALICE at the LHC. The three-dimensional two-particle correlation functions and double ratios in the out-side-long pair rest frame as well as in terms of an infinite set of one-dimensional spherical harmonics are studied in different centrality bins. The femtoscopic source size parameter (R_{Out}) and emission asymmetry (μ) are extracted. It is observed that the average source size of the system and emission asymmetry between particles increase from peripheral to central events.

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