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Femtoscopy and phenomenology of strong interactions

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Femtoscopic two-particle correlations have traditionally been used to determine the size and shape of the particle-emitting region in high-energy collisions. This method is also sensitive to final state interactions, in particular, to strong interactions experienced by pairs of hadrons. In this presentation, phenomenological results on femtoscopy involving correlations of D^0D^0 and $\bar{D}^0\bar{D}^0$ pairs are discussed. These studies explore the strong interactions between these particle pairs, allowing us to extract scattering observables from their correlation functions and gain deeper insights into the short-range interactions in the repulsive sector.

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