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Approach to meson-baryon femtoscopy correlation functions using effective field theories

Wednesday, 10 July 2024 16:00 (30 minutes)

Several femtoscopy correlation functions have been calculated in the strangeness sectors $S = 0$ and $S = -2$ for meson-baryon interactions. We combine the interactions of chiral perturbation theory at leading order with the TROY (T-matrix-based Routine for HadrOn femtoscopy) framework. We predict the correlation function for the π^+p and π^-p channels, which are currently under analysis by the ALICE collaboration at the LHC. Furthermore, it will be shown that an analogous interaction can be used to reproduce the results for $K\Lambda$ correlation functions obtained by the same collaboration.

session

E. Hadron and Nuclear Interactions

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