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

*Wednesday, 10 July 2024 11:00 (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  $\pi^+p$  and  $\pi^-p$  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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