808th ASRC Seminar

Date: 12月17日(金) 16:00~17:30

(Zoomによるオンライン開催)

Speaker: 神谷　有輝 氏

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Title: Femtoscopic study on the hadron-hadron interaction

Abstract:

Recently, the femtoscopic technique using the momentum correlation function has getting much attention as a new method to study the hadron-hadron interaction. The momentum correlation function is well described by the convolution of the emitting source function and the relative wave function in the pair rest frame and is suitable to investigate the low-energy hadron-hadron interaction of short-lived hadron pairs. In the current analyses, the hadron interaction is investigated by comparing the correlation function calculated with the interaction models and the experimental data. In this process, the coupled-channel effect and the source size dependence are the keys to extract the information of interaction. In this talk, we discuss how these feature affect on the correlation function and what we can conclude from the correlation data. Finally, we discuss the feature prospects and the required extension for the further study.

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