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Non-identical charged kaon femtoscopy in Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV by ALICE



📅 7 Oct 2020, 19:05

🕒 15m

📍 Online

Oral talk

📖 Heavy Ion physics

Heavy Ion Physics

Speaker

👤 Mr. Konstantin Mikhaylov (ITEP, JINR)

Description

We present the result of the femtoscopic analysis of non-identical charged kaon correlations in Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV obtained in ALICE at the LHC. One-dimensional $K+K^-$ correlation functions were analyzed in three centrality classes and eight transverse momentum ranges. The femtoscopic correlations of $K+K^-$ pairs are the result of Coulomb final-state interactions and formation of $a_0(980)$ and $f_0(980)$ resonances. The $K+K^-$ correlation function is fit with the R.Lednicky and V.Luboshitz model [1]. For the first time, $f_0(980)$ mass and couplings were extracted from the $K+K^-$ correlation functions fit with the constraint on the radii to be close to the corresponding radii of identical charged kaon correlations.

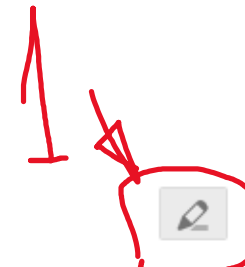
[1] R. Lednicky and V.L. Lyuboshitz, Sov. J. Nucl. Phys. 35, 770 (1982)

Primary author

👤 Mr. [Konstantin Mikhaylov](#) (ITEP, JINR)

📎 Presentation Materials

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