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Description of femtoscopic correlations with realistic pion-kaon interactions: the kappa/ $K_0^*(700)$ case

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The ALICE collaboration has recently reported π^+-K_S femtoscopic correlations in pp collisions[1]. Here we show [2] how they can be well described using existing realistic π -K interactions obtained from a dispersive analysis of scattering data [3], containing an accurate description of the $\kappa/K_0^*(700)$ resonance pole.

[1] . Acharya et al. (ALICE), Phys. Lett. B 856, 138915 (2024), arXiv:2312.12830 [hep-ex]

[2] in progress: M. Albaladejo, A. Canoa, J.M. Nieves, J.R.Pelaez and E.Ruiz-Arriola

[3] J.R.Pelaez, A. Rodas,Phys.Rept. 969 (2022) 1-126

Abstract

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