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Chiral extrapolation of the $\rho(770)$ meson in $N_f=2+1$ simulations

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Content

Recently, phase shift data for the ρ -meson have been extracted from several $N_f = 2 + 1$ lattice simulations for different pion masses. We analyze the lattice data sets with Unitarized Chiral Perturbation Theory. Chiral extrapolations are performed to postdict experimental phase shift data, and also compared with the ones obtained from the analysis of $N_f = 2$ lattice data. The low-energy constants from different analyses are compared for consistency. Finally, the role of the $K\bar{K}$ channel is revisited.

Preferred track (if multiple tracks have been selected)

None

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