Strangeness is the key: from KbarN to DDbarK

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Content

We show that the KbarN coupled-channel interaction can be described in chiral perturbation theory. Such an interaction leads naturally to the existence of the two poles of Lambda(1405), which has received increasing support from lattice QCD and experiments. In addition, we demonstrate that the same type of interaction gives rise to the Ds0*(2317) and its associated three-body DDbarK states.

Reference

[1] *Phys.Rev.Lett.* 130 (2023) 071902
[2] *Phys.Rept.* 1108 (2025) 1-108

Field of Research: Interactions of mesons and baryons with strangeness /Heavy flavor systems
Experiment / Theory: Theory
Contribution Type: Invited talk