

# Current understanding of the $\bar{K}$ -N, $\bar{K}$ -atom and $\bar{K}$ -nucleus interactions

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I will briefly report on the present status of  $\bar{K}$ -N,  $\bar{K}$ -atom and  $\bar{K}$ -nucleus interactions, making emphasis on two recent developments: the value and limitations of present QCD lattice calculations to provide the two poles of the  $\Lambda(1405)$ , and the proposed novel reaction  $\bar{K}-d \rightarrow p \Sigma^-$ , which develops a triangle singularity from a loop involving the  $\Lambda(1045)$  and two nucleons, which has been shown to provide new information concerning the  $\bar{K}$ -N interaction below threshold, where the different theoretical models still differ substantially among them.