

Strange Mesons in Nuclei and Neutron Stars

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Understanding the dynamics of hadrons with strangeness has received a lot attention over the past decades in connection with the study of exotic atoms, the analysis of strangeness production in particle and nuclear research facilities, and the investigation of different strange phases in the interior of neutron stars. One venue of interest in the field of strangeness is the study of strange mesons (K and Kbar), and their dynamics with nucleons and nuclear matter. In this talk I will comment on the KbarN interaction, that is governed by the presence of the $\Lambda(1405)$, and discuss the formation of exotic bound states, such as KbarNN. Moreover, I will analyze the properties of K and Kbar in dense nuclear matter, strangeness production in nuclear collisions and kaon condensation in neutron stars.

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