

Abstract

Kaon decays help us understand the structure of the weak and strong interactions at LOW energy. It is well-known that the strong force becomes so messy at long distances due to the non-perturbative effects. To overcome the problem the application of effective field theories have been widely suggested. As an effective field theory for the strong force at low energy, we use Chiral Perturbation Theory (ChPT). The decay $K_S \rightarrow \gamma\gamma$ is one of the interesting processes we are studying here at "higher orders", mainly because it provides a stringent test for the ChPT and it may ultimately settle the present experimental conflict.