

Light meson decays: QCD and fundamental symmetries

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The key for understanding the low energy QCD is chiral symmetry. This approximate symmetry allows for construction of a successful systematic approach to low energy QCD. The main application of this theory are processes involving light pseudoscalar mesons.

For example isospin breaking decay of eta meson into three pions provide precise constraints for ratios of the light quark masses and allow to study elementary processes of the low energy strong interactions: pi-pi interactions.

Some of the rare decay modes of pi0 and eta mesons allow to test the fundamental symmetries and search for physics beyond the Standard Model.

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