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Hadronic tau decays in resonance chiral theory

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Tau decays are analyzed within the framework of resonance chiral theory. This is an extension of chiral perturbation theory in which resonances are incorporated as dynamical states in the Lagrangian, making use of both chiral symmetry and large N_C considerations. It is seen that after imposing asymptotic QCD constraints, a few effective coupling constants need to be fitted from experiment in order to describe the spectral functions for various decay channels.

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