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Studies of the $a_1(1260)$ from tau lepton decays at CLEO

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The combination of leptonic production and selection rules imposed by the weak hadronic current make the experimental study of hadronic final states in tau decay particularly clean. In this presentation we describe studies carried out nearly 20 years ago at CLEO-II of the $a_1(1260)$ meson in tau decays to neutrino plus three pions. Notable results include identification of significant contributions from isoscalars in the a_1 substructure as well as features that emerge from a high-statistics analysis of the a_1 lineshape.

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