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SU(3) flavour and CP violation in charm decays

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We analyze decays of charm mesons to two pseudoscalars, $D \rightarrow PP$, in an flavour-SU(3) framework, including first order symmetry breaking. We perform fits to the full up-to-date (pre-Moriond) data set with octet mesons, including for the first time all SU(3)-breaking amplitudes in the CKM-leading part. This allows for making general statements on the requisite size of SU(3) breaking and enhancements for the penguin contributions to describe the data. We furthermore show how future data can help distinguishing between different new physics models and the standard model.

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