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Searching for New Physics in Heavy Flavor Decays: Recent Results from the B Factories and LHCb, and Future Prospects

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We review recent results in heavy flavor decays from the Belle, BaBar, and LHCb experiments. These measurements range from mixing parameters to CKM phases to various observables in electroweak penguin decays. The results are sensitive to new physics and thus constrain extensions to the Standard Model. Several inconsistencies between measured values and Standard Model expectations may point the way to uncovering new physics with more data. Both Belle and LHCb are now being upgraded in order to significantly increase the data sample sizes; these upgrade programs and their physics prospects are also discussed.

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