



CP Violation: From Quarks to Leptons (International School of Physics Enrico Fermi) (Proceedings of the International School of Physics "Enrico Fermi")

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For a long time after the discovery in 1964, by Christenson, Cronin, Fitch and Turlay, that the long-lived neutral kaon decays both into three and into two pions, which has since been taken as proof of CP violation, successive new and more precise experiments confirmed the original evidence and provided results compatible with a phenomenological description confining the CP violation to the mixing between neutral kaons and antikaons. However the Standard Model, with three generations of quarks, linking as it does CP violation to the presence of a single non trivial phase in the Cabibbo-Kobayashi-Maskawa quark mixing matrix, implies that if CP violation exists at all, then it is a general property of weak interactions, appearing in transitions where amplitudes involving all three quark families interfere with each other, producing effects with a magnitude related to that of the CKM coefficients. This fact has stimulated an impressive amount of theoretical work leading in many cases to precise predictions. This publication reviews the field, from both the theoretical and experimental point of view, while planning for the forthcoming experimentation at LHC and considering possible new facilities for kaon, B meson and neutrino physics.

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