Matrika Cabibbo-Kobayashi-Maskawa

Nicola Cabibbo
CERN, Geneva, Switzerland
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We present here an analysis of leptonic decays based on the unitary symmetry for strong interactions, in the version known as "eightfold way," [1] and the V-A theory for weak interactions. [2,3] Our basic assumptions on J_μ, the weak current of strong interacting particles, are as follows:

able to treat the complex of K^0 leptonic decays, or $\Sigma^+ \rightarrow n + e^+ + \nu$ in which $\Delta S = -\Delta Q$ currents play a role. For the other processes we make the hypothesis that the main contributions come from that part of J_μ which is in the eightfold representation.

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## CP-Violation in the Renormalizable Theory of Weak Interaction

Makoto KOBAYASHI and Toshihide MASKAWA
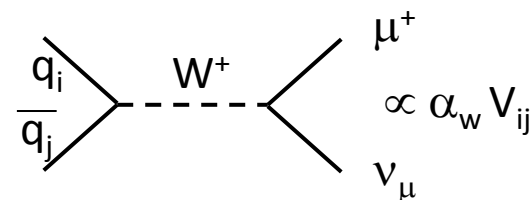
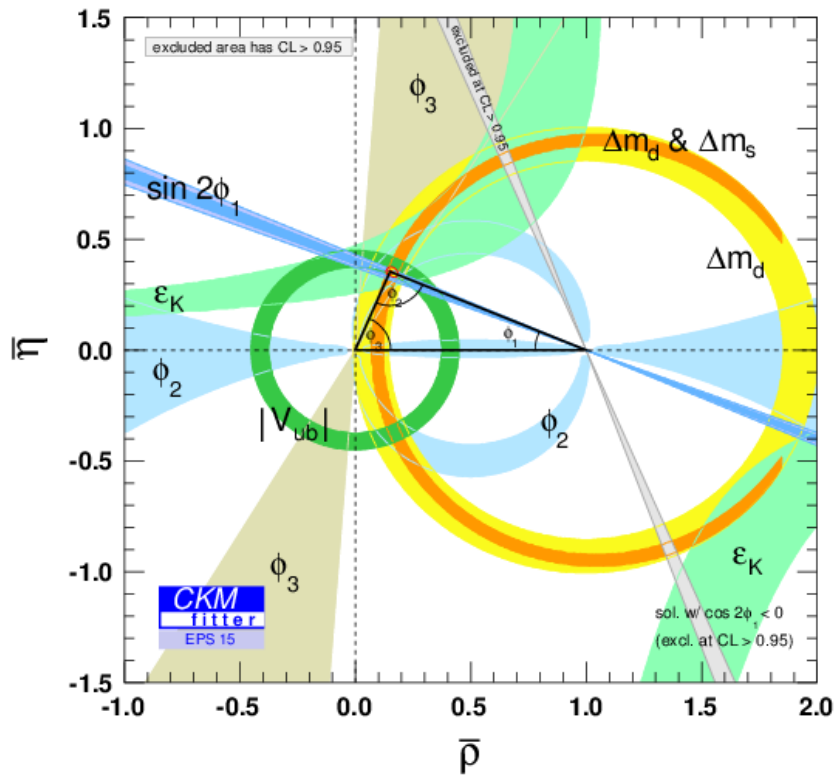Department of Physics, Kyoto University, Kyoto

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In a framework of the renormalizable theory of weak interaction, problems of CP-violation are studied. It is concluded that no realistic models of CP-violation exist in the quartet scheme without introducing any other new fields. Some possible models of CP-violation are also discussed.

Nicola Cabibbo, 1963:
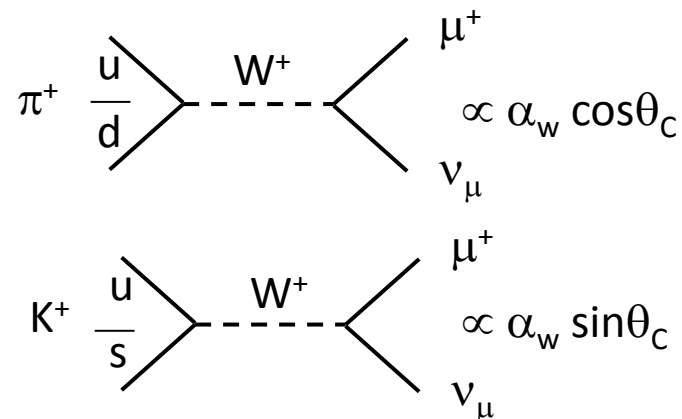
M. Kobayashi, T. Maskawa, 1973:

M. Kobayashi T. Maskawa