

High Energy Physics - Experiment

Vus determination from kaon decays

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This review presents the analysis of leptonic and semileptonic kaon decays data done by the FlaviaNet Kaon Working group, as described in FlaviaNet Note of October 2008. Data include all recent results by BNL-E865, KLOE, KTeV, ISTRA+, and NA48. Experimental results are critically reviewed and combined, taking into account theoretical (both analytical and numerical) constraints on the semileptonic kaon form factors. We report on a very accurate determination of V_{us} as well as on many other tests of the SM which can be performed with leptonic and semileptonic kaon decays.

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