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QED corrections to Weak Decays in Lattice QCD

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Given the increasing experimental accuracy in the measurement of several weak decay rates and in the calculation of the corresponding hadronic amplitudes, in order to make further progress in the determination of the CKM matrix and in the exploration of the limits of the Standard Model in flavour physics it is necessary to include electromagnetic effects and isospin breaking contributions. In this talk the recent progress in the ab-initio, non-perturbative lattice QCD calculation of the electromagnetic corrections to the leptonic and semi-leptonic decay rates will be reviewed.

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