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Lattice weak matrix elements and CP violation in the LHC era

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The role of lattice matrix elements in refined tests of the Standard Model and for search of new physics will be discussed. Although the results from the lattice in conjunction with data from B-factories provided a confirmation of the CKM-paradigm of CP violation a few years ago, since then improved calculations and better data from experiments is now yielding strong indications that the single phase in the CKM-matrix is not enough. Repercussions for some BSMs will also be discussed

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