Lattice2010



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Form factors of the D -> pion and D -> K semileptonic decays

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We present lattice results for the form factors relevant in the D -> pion and D -> K semileptonic decays obtained from simulations with two flavors of dynamical twisted-mass fermions. Results at four values of the lattice spacing, ranging from ~ 0.05 up to ~ 0.1 fm, allow a careful study of the discretization effects. The application of Heavy Meson Chiral Perturbation Theory provides an extrapolation of our results for both the scalar and the vector form factors to the physical point with quite good accuracy, obtaining a nice agreement with the experimental data.

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Talk

Primary authors: TARANTINO, Cecilia (University of Rome III and INFN - Roma Tre); MESCIA, Federico (Universitat de Barcelona); SIMULA, Silvano (INFN - Roma Tre); DI VITA, Stefano (University of Rome III and INFN - Roma Tre); LUBICZ, Vittorio (University of Rome III and INFN - Roma Tre)

Presenter: DI VITA, Stefano (University of Rome III and INFN - Roma Tre)

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