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Kaon radiative leptonic decay rates from Twisted Mass simulations at the physical point

Friday 7 November 2025 17:00 (20 minutes)

We present our recent calculation of radiative leptonic decay rates of the kaon, based on twisted clover simulations at the physical point carried out by ETM collaboration. The calculation improves substantially our previous estimate, by improving the statistics, including electroweak diagrams, carrying out the continuum extrapolation on three different lattice spacings and investigating the finite volume correction with two different volumes. We discuss the phenomenological relevance of the calculation, and future direction of research.

Parallel Session (for talks only)

Quark and lepton flavor physics

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Session Classification: Quark and lepton flavor physics