LATTICE 2024

LIVERPOOL

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Split-even approach to the rare kaon decay
$K \rightarrow \pi\ell^+\ell^-$

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In recent years the rare kaon decay has been computed directly at the physical point. However, this calculation is currently limited by stochastic noise stemming from a light and charm quark loop GIM subtraction. The split-even approach is an alternative estimator for such loop differences, and has shown a large variance reduction in certain quantities. We present an investigation into the use of the split-even estimator in the calculation of the rare kaon decay.

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