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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.

Primary author: HODGSON, Raoul (DESY)**Presenter:** HODGSON, Raoul (DESY)**Session Classification:** Quark and lepton flavour physics**Track Classification:** Quark and Lepton Flavour Physics