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[378] Angular analysis of $B^0 \to K^{*0} e^+ e^-$ decays at LHCb

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The family of decays mediated by $b \to s\ell^+\ell^-$ transitions ($\ell = \mu, e$) provides a rich laboratory to search for effects of physics beyond the Standard Model. In recent years, LHCb has found hints of deviations from theoretical predictions in branching fraction ratios (\textit{i.e.} R_K and $R_{K^{*0}}$) and angular distributions of the muonic channel. More recently, analyses of $B^0 \to K^{*0}\mu^+\mu^-$ and $B^0 \to K^{*0}e^+e^-$ decays by Belle have for the first time investigated lepton flavour universality (LFU) in angular distributions, particularly in the observable P'_5 . In this work I will show the current status and prospects for the angular analysis of $B^0 \to K^{*0}e^+e^-$ decays at LHCb, and the sensitivity expected to LFU.

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