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306 Angular analysis of $B^0 \rightarrow K^{*0} e^+ e^-$ decays at LHCb

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The family of decays mediated by $b \rightarrow s \ell^+ \ell^-$ transitions ($\ell = \mu, e$) provides a rich laboratory to search for physics beyond the Standard Model. In recent years, LHCb has found hints of deviations from theoretical predictions notably in lepton flavour universality (LFU) testing branching fraction ratios (i.e. R_K and $R_{K^{*0}}$), as well as angular distributions of the $B^0 \rightarrow K^{*0} \mu^+ \mu^-$ decay. The angular analysis of the electron mode allows for the investigation of LFU in angular distributions, especially in the observable P'_5 . In this work I will show the current status and prospects for the angular analysis of $B^0 \rightarrow K^{*0} e^+ e^-$ decays at LHCb.

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