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Angular Analysis of $B_s^0 \rightarrow \phi e^+ e^-$ in the low q^2 region within the LHCb experiment

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One of the privileged ways to search for signs of New Physics (NP) beyond the Standard Model (SM), is the study of $b \rightarrow s \ell^+ \ell^-$ ($\ell =$ electron or muon) transitions which involve Flavour Changing Neutral Currents (FCNC) via box or loop diagrams. The LHCb experiment has recently published a set of measurements in tension with the SM predictions. The aim of this work is to perform an angular analysis on $B_s^0 \rightarrow \phi e^+ e^-$ in the low dielectron mass region to provide the measurement of the photon polarization.

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