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Studies of rare and suppressed processes in B meson decays and of mixing/CP violation in the Bs system with the ATLAS detector

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Evidence for New Physics signatures is searched in processes that are naturally suppressed in the Standard Model. Recent results on the angular distribution parameters AFB and FL describing the decay $B_d \rightarrow K^* \mu^+ \mu^- \rightarrow K^+ \pi^- \mu^+ \mu^-$ are presented. The accuracy obtained from data collected in 2011 is comparable to the best previous measurement in the region $q^2(\mu^+ \mu^-) > 16 \text{ GeV}^2$.

New results on the search for the rare decay $B_s (B_0) \rightarrow \mu^+ \mu^-$ are presented.

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