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Rare B decays in ATLAS: results and most recent updates on the 2012 analyses

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Weak decays that are naturally suppressed in the Standard Model, such as processes with flavour-changing neutral-currents, are perfect for indirect searches of new physics. These decays allow us to investigate higher energy ranges with respect to direct searches thus representing a fundamental complementary tool.

Results on the ATLAS search for the $B_s \rightarrow \mu^+ \mu^-$ rare decay will be presented together with the most recent updates on the 2012 analysis that will be published soon.

The ATLAS study of $B_d \rightarrow K^* \mu^+ \mu^-$ is also reported where the parameters A_{FB} and F_L are extracted from the angular distribution of the final state.

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