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New physics searches with heavy flavour observables at ATLAS

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The large amount of Heavy Flavour data collected by the ATLAS experiment is potentially sensitive to New Physics, which may be found in the mixing of B meson states, or through processes that are naturally suppressed in the Standard Model. We present the new results on the measurement of the decay of the Bs into J/psi phi based on full data collected in LHC Run-1 and with updated flavour tagging techniques improving the accuracy in the CP-violating phase ϕ_s . We also present the measurement of the decay time difference in the Bd system. ATLAS Run-1 results on the search for the rare decay Bs (B0)->mu+mu- are presented as well as results on the angular distribution parameters AFB and FL describing the decay Bd -> K*mu+mu- -> K+pi-mu+mu-.

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