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ATLAS measurements of CP violation and rare decay processes with beauty mesons

The ATLAS experiment has performed measurements of B-meson rare decays proceeding via suppressed electroweak flavour changing neutral currents, and of mixing and CP violation in the neutral B meson systems. This talk will focus on the latest results from the ATLAS collaboration, in particular for rare processes □0□→□□ and □0→□□, and CP violation in the □0□→□/□□ decays. In the latter, the Standard Model predicts the CP violating mixing phase, □□, to be very small and its SM value is very well constrained, while in many new physics models large □□ values are expected. Latest measurements of □□ and several other parameters describing the □0□→□/□ □ decays will be reported.

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