

# Mixing and CP violation in the $B_s$ system with ATLAS

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## Collaboration

ATLAS

## Abstract content

The different amplitudes contributing to the decay of  $B_s$  into  $J/\psi \phi(\mu^+\mu^-K^+K^-)$  can be studied with a combined analysis of decay time and angular correlations. An analysis based on data collected in 2011 and with initial  $B$ -meson flavour tagging is presented, improving the accuracy in the CP-violating phase  $\phi_s$  compared to the untagged analysis.

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