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## Mixing and CP violation in the decay of Bs to J/psi Phi in ATLAS

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Mixing and CP violation is studied by ATLAS in the decay of the Bs meson to J/psi Phi, observed in the final state  $\mu^+\mu^-K^+K^-$ .

The different amplitudes contributing to the process are studied through the time dependence of the angular distribution.

Measurements of the average lifetime and lifetime difference between the two eigenstate BH and BL, and of the CP violating phase  $\phi_s$  are performed. New results obtained with the use of flavor-tagging will be discussed.

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