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Study of charmless B->VV decays at LHCb

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Charmless B-meson decays into two vector mesons, $B \to VV$, serve as a powerful probe for the dynamics of weak and strong interactions through their angular distributions. This report will introduce recent LHCb results on $B \to VV$ decays, including:

- 1. First observation of CP violation and measurement of polarization in B+ \rightarrow $\rho(770)0$ K*(892)+ decays
- 2. Measurement of the branching fractions and longitudinal polarisations of B(s)0 \rightarrow K(892)0 K\bar(892)0 decays
- 3. Measurement of CP violation in Bs0 $\rightarrow \varphi \varphi$ and search for B0 $\rightarrow \varphi \varphi$

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