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## Time-dependent CP violation in charmless $b$ decays at LHCb

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In the B meson sector, measurements of weak phases not associated with  $V_{ub}$  are obtained through time-dependent, flavour-tagged analyses involving B-Bbar mixing. In addition to new phases that may enter the mixing loop, charmless B decays have an additional mechanism for unknown particles to induce deviations from the Standard Model expectation due to the sizeable contribution to these decays from penguin topologies. We present the most recent studies of time-dependent CP violation in charmless B decays at the LHCb experiment, including  $B_s \rightarrow \phi\phi$ , one of the “golden channels” for New Physics searches.

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