

Contribution ID: 312 Type: Parallel

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Monday 7 July 2025 15:00 (20 minutes)

The Belle and Belle II experiment have collected a 1.2 ab  $^{-1}$  sample of  $e^+e^- \to B\bar{B}$  decays at a centre-of-mass energy corresponding to the  $\Upsilon(4S)$  resonance. The SuperKEKB collider is asymmetric, providing a boost to the B mesons in the laboratory frame, so we can perform measurements of time-dependent  $C\!P$  violation. Among the new results, we measure  $C\!P$ -violating parameters related to the determination of the least well-known angle of the unitarity triangle  $\alpha$  using the decay  $B^0 \to \rho^+\rho^-$ . In addition, we present a measurement of  $B^0 \to K_{\rm S}^0 \pi^+ \pi^- \gamma$ , which is sensitive to beyond-the-standard-model physics.

## Secondary track

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**Session Classification:** T07

Track Classification: T07 - Flavour Physics and CP Violation