## Phenomenology 2022 Symposium: From Virtual to Real



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## Search for Charmed Baryon-Antibaryon Oscillations and BNV with Belle

Monday 9 May 2022 15:30 (15 minutes)

We report on the first search for baryon-number-violating decay  $B^- \to \bar\Xi_c^0 \Lambda_c^-$  using data collected with the Belle detector at the KEKB asymmetric-energy e+e- collider. The results are also interpreted in terms of the previously-discovered Standard Model decay  $B^- \to \Xi_c^0 \Lambda_c^-$  followed by possible  $\Xi_c^0 - \bar\Xi_c^0$  oscillations. The measurements of charmed baryons-antibaryon oscillations in the heavy quark sector provide a new avenue to investigate the origin of matter-antimatter asymmetry of the universe.

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