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Measurement of the time-dependent CP-violation in $B^0 \rightarrow D^{*+} D^{*-}$ decays at Belle

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In this talk, the measurement of the branching fraction, polarization, and time-dependent CP-violation in $B^0 \rightarrow D^{*+} D^{*-}$ decays will be presented. It was performed with a data sample of 772 million $B\bar{B}$ pairs, collected with the Belle detector at the KEKB asymmetric-energy e^+e^- collider.

The time-dependent CP-violation in this $b \rightarrow c\bar{c}d$ transition is directly related to ϕ_1 , one of the angles of the CKM triangle. Depending on the relative angular momentum of the two D^* mesons, both CP-even and CP-odd final states occur. For their statistical separation, an angular analysis was performed, using two of three angles of the transversity base.

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