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Measurement of absolute branching fraction of Ξ_c baryon at Belle

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The branching fractions of ground state charmed baryon are not measured so far except for the Λ_c .

Only the branching fractions relative to the primary decay modes are measured.

The measurement is important to test our understanding of weak decay of baryons and measurement of absolute production cross sections.

We report first measurement of the absolute branching fraction of Ξ_c^0 decaying into $\Xi\pi$, $\Lambda K\pi$, and $pKK\pi$ and Ξ_c^+ decaying into $\Xi\pi\pi$ and $pK\pi$.

The measurement is based on Belle data set with an integrated luminosity of 711 fb^{-1} collected at the $\Upsilon(4S)$ resonance.

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