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[362] Lambda_c to Sigma pi pi decays at Belle

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We report new measurements of the branching fractions of the decays $\Lambda_c^+ \rightarrow \Sigma^+ \pi^- \pi^+$, $\Sigma^0 \pi^0 \pi^+$ and $\Sigma^+ \pi^0 \pi^0$ based on 711/fb of integrated luminosity recorded with the Belle detector at the KEKB asymmetric energy e^+e^- collider near the $\Upsilon(4S)$ resonance (charge conjugated decays are implicitly included). All results are obtained relative to the normalisation mode $\Lambda_c \rightarrow p^+ K^- p i^+$. This is the first measurement of the $\Lambda_c^+ \rightarrow \Sigma^+ \pi^0 \pi^0$ channel. The measurements of the other modes are significantly more precise compared to previous analyses.

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