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Absolute branching fractions for Λ_{cb}^+ decays at BESIII

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The BESIII detector accumulated 567 pb⁻¹ data at the center-of-mass energy of 4.599 GeV, which is the world's largest e⁺e⁻ collision sample at the Λ_{cb}^+ pair threshold. By analyzing this data sample, we report the determinations of the absolute branching fractions of the Λ_{cb}^+ semi-leptonic decay into $\Lambda_{cb}^+ e^+ \nu_e$, and 12 hadronic decays of pKs, pK-pi⁺, pKspi⁰, pKspi⁺pi⁻, $\Lambda_{cb}^+ \pi^+$, $\Lambda_{cb}^+ \pi^+ \pi^0$, $\Lambda_{cb}^+ \pi^+ \pi^+ \pi^-$, pK-pi⁺pi⁰, Sigma⁰ pi⁺, Sigma⁺pi⁰, Sigma⁺pi⁺pi⁻ and Sigma⁺omega. The precisions of the absolute branching fractions for these decays are improved significantly compared to the PDG values.

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