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【324】 Measurement of the Branching Fraction and Kinematic Variables of $B^0 \rightarrow D^{*-} l^+ \nu_l$ using the Belle II data

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The goal of this analysis is to make a precise measurement of the magnitude of the element $|V_{cb}|$ of the Cabibbo–Kobayashi–Maskawa matrix based on B-decays to the exclusive final state $D^{*-} l^+ \nu_l$. We will explain how this new measurement addresses several limitations of previous determinations and will help to clarify the experimental status of $|V_{cb}|$. The first steps are to measure the branching fraction and kinematic variables of the decay – preliminary results will be presented. This analysis is based on the data recorded by the Belle II experiment at the SuperKEKB collider.

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