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Title:	Measurements of the branching fractions $B(B \rightarrow \bar{\Lambda} - c \Xi' 0 c)$ , $B(B \rightarrow \bar{\Lambda} - c \Xi c(2645) 0)$ and $B(B \rightarrow \bar{\Lambda} - c \Xi c(2790) 0)$
Authors:	Patra, S. (/jspui/browse?type=author&value=Patra%2C+S.)
Keywords:	Branching fraction Hadronic decays Bottom mesons
Issue Date:	2019
Publisher:	American Physical Society
Citation:	Physical Review D, 100(11).
Abstract:	Using the data sample of $711 \text{ fb}^{-1}$ of $Y(4S)$ on-resonance data taken by the Belle detector at the KEKB asymmetric-energy electron-positron collider, we present the first measurements of branching fractions of the decays $B \rightarrow \bar{\Lambda} - c \Xi' 0 c$ , $B \rightarrow \bar{\Lambda} - c \Xi c(2645) 0$ , and $B \rightarrow \bar{\Lambda} - c \Xi c(2790) 0$ . The signal yields for these decays are extracted from the recoil mass spectrum of the system recoiling against $\bar{\Lambda} - c$ baryons in selected $B^-$ candidates. The branching fraction of $B \rightarrow \bar{\Lambda} - c \Xi c(2790) 0$ is measured to be $(1.1 \pm 0.4 \pm 0.2) \times 10^{-3}$ , where the first uncertainty is statistical and the second is systematic. The 90% credibility level upper limits on $B(B \rightarrow \bar{\Lambda} - c \Xi' 0 c)$ and $B(B \rightarrow \bar{\Lambda} - c \Xi c(2645) 0)$ are determined to be $6.5 \times 10^{-4}$ and $7.9 \times 10^{-4}$ , respectively.
Description:	Only IISERM authors are available in the record.
URI:	<a href="https://journals.aps.org/prd/abstract/10.1103/PhysRevD.100.112010">https://journals.aps.org/prd/abstract/10.1103/PhysRevD.100.112010</a> ( <a href="https://journals.aps.org/prd/abstract/10.1103/PhysRevD.100.112010">https://journals.aps.org/prd/abstract/10.1103/PhysRevD.100.112010</a> ) <a href="http://hdl.handle.net/123456789/1679">http://hdl.handle.net/123456789/1679</a> ( <a href="http://hdl.handle.net/123456789/1679">http://hdl.handle.net/123456789/1679</a> )
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