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Title: Observation of B+ \rightarrow p $^-\Lambda K+K-$ and B+ \rightarrow^- p $\Lambda K+K+$ Authors: Bhardwaj, V. (/jspui/browse?type=author&value=Bhardwaj%2C+V.) Keywords: Conjugation Evidence 2019 Issue Date: Publisher: American Physical Society Citation: Physical Review D,99(3). Abstract: We report the study of $B+\rightarrow p^-\Lambda K+K-$ and $B+\rightarrow p^-\Lambda K+K+$ decays using a 772×106 B B pair data sample recorded on the Y(4S) resonance with the Belle detector at KEKB. The following branching fractions are measured: $B(B+\rightarrow p^- \Lambda K+K-)=(4.10+0.45-0.43\pm0.50)\times 10-6$, $B(B+\to^-p\Lambda K+K+)=(3.70+0.39-0.37\pm0.44)\times10-6$, $B(\eta c\to p^-\Lambda K-+c.c.)=$ $(2.83 + 0.36 - 0.34 \pm 0.35) \times 10 - 3 \text{ and } B(B + \rightarrow p^- \Lambda \phi) = (7.95 \pm 2.09 \pm 0.77) \times 10 - 7, \text{ where c.c. denotes the } = (2.83 + 0.36 + 0.36 \pm 0.35) \times 10^{-3} = (2.83 + 0.36 \pm 0.36 \pm 0.36 \pm 0.36) \times 10^{-3} = (2.83 \pm 0.36 \pm 0.36 \pm 0.36) \times 10^{-3} = (2.83 \pm 0.36 \pm 0.36 \pm 0.36) \times 10^{-3} = (2.83 \pm 0.36 \pm 0.36 \pm 0.36) \times 10^{-3} = (2.83 \pm 0.36 \pm 0.36 \pm 0.36) \times 10^{-3} = (2.83 \pm 0.36 \pm 0.36 \pm 0.36) \times 10^{-3} = (2.83 \pm 0.36 \pm 0.36 \pm 0.36) \times 10^{-3} = (2.83 \pm 0.36 \pm 0.36 \pm 0.36) \times 10^{-3} = (2.83 \pm 0.36 \pm 0.36 \pm 0.36) \times 10^{-3} = (2.83 \pm 0.36 \pm 0.36 \pm 0.36) \times 10^{-3} = (2.83 \pm 0.36 \pm 0.36 \pm 0.36) \times 10^{-3} = (2.83 \pm 0.36 \pm 0.36 \pm 0.36) \times 10^{-3} = (2.83 \pm 0.36 \pm 0.36 \pm 0.36) \times 10^{-3} = (2.83 \pm 0.36 \pm 0.36 \pm 0.36) \times 10^{-3} = (2.83 \pm 0.36 \pm 0.36 \pm 0.36) \times 10^{-3} = (2.83 \pm 0.36 \pm 0.36 \pm 0.36) \times 10^{-3} = (2.83 \pm 0.36 \pm 0.36 \pm 0.36) \times 10^{-3} = (2.83 \pm 0.36 \pm 0.36 \pm 0.36) \times 10^{-3} = (2.83 \pm 0.36 \pm 0.36 \pm 0.36) \times 10^{-3} = (2.83 \pm 0.36 \pm 0.36 \pm 0.36 \pm 0.36) \times 10^{-3} = (2.83 \pm 0.36 \pm 0.36 \pm 0.36) \times 10^{-3} = (2.83 \pm 0.36 \pm 0.36 \pm 0.36 \pm 0.36) \times 10^{-3} = (2.83 \pm 0.36 \pm 0.36 \pm 0.36 \pm 0.36) \times 10^{-3} = (2.83 \pm 0.36 \pm 0.36 \pm 0.36 \pm 0.36) \times 10^{-3} = (2.83 \pm 0.36 \pm 0.36 \pm 0.36 \pm 0.36) \times 10^{-3} = (2.83 \pm 0.36 \pm 0.36 \pm 0.36 \pm 0.36 \pm 0.36) \times 10^{-3} = (2.83 \pm 0.36 \pm 0.36 \pm 0.36 \pm 0.36 \pm 0.36 \pm 0.36) \times 10^{-3} = (2.83 \pm 0.36 \pm 0.36 \pm 0.36 \pm 0.36 \pm 0.36 \pm 0.36) \times 10^{-3} = (2.83 \pm 0.36 \pm 0.36 \pm 0.36 \pm 0.36 \pm 0.36 \pm 0.36) \times 10^{-3} = (2.83 \pm 0.36 \pm 0.36 \pm 0.36 \pm 0.36 \pm 0.36 \pm 0.36) \times 10^{-3} = (2.83 \pm 0.36 \pm 0.36 \pm 0.36 \pm 0.36 \pm 0.36 \pm 0.36 \pm 0.36) \times 10^{-3} = (2.83 \pm 0.36 \pm 0.36 \pm 0.36 \pm 0.36 \pm 0.36 \pm 0.36 \pm 0.36) \times 10^{-3} = (2.83 \pm 0.36 \pm 0.$ corresponding charge-conjugation process. The intermediate resonance decays are excluded in the four-body decay measurements. We also find evidence for B($\eta c \rightarrow \Lambda(1520)^-\Lambda + c.c.$)= $(3.48\pm1.48\pm0.46)\times10-3$ and B(B+ $\rightarrow\Lambda(1520)^{-}\Lambda K+$)= $(2.23\pm0.63\pm0.25)\times10-6$. No significant signals are found for $J/\psi \rightarrow \Lambda(1520)^-\Lambda + c.c.$ and $B+\rightarrow^-\Lambda(1520)\Lambda K+$; we set the 90% confidence level upper limits on their decay branching fractions as <1.80×10-3 and <2.08×10-6, respectively. Description: Only IISERM authors are available in the record. URI: https://journals.aps.org/prd/abstract/10.1103/PhysRevD.99.032003 (https://journals.aps.org/prd/abstract/10.1103/PhysRevD.99.032003) http://hdl.handle.net/123456789/2250 (http://hdl.handle.net/123456789/2250)

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