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Measurement of the branching fractions $B(\tau \rightarrow K n\pi^0 \nu)$, $n=0,1,2,3$, and $B(\tau \rightarrow \pi n\pi^0 \nu)$, $n=3,4$

Monday, 24 September 2018 14:20 (20 minutes)

We report the measurements of the branching fractions of the decay $B(\tau \rightarrow K n\pi^0 \nu)$, $n=0,1,2,3$, and $B(\tau \rightarrow \pi n\pi^0 \nu)$, $n=3,4$ excluding the contributions that proceed through the decay of intermediate K^0 and η mesons. The measurements are based on a data sample of 435 million tau pairs produced in e^+e^- collisions at and near the $Y(4s)$ peak and collected with the BaBar detector in 1999–2008.

These measurements are substantial improvements of previous measurements and $B(\tau \rightarrow \pi 4\pi^0 \nu)$ is measured for the first time.

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