

Abstract Submitted
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Search For Baryon number violation in tau lepton decays CASEY
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A search for baryon number violating decays of the τ lepton has been performed. Specifically decays involving three charged tracks one of which is a proton. Decays of interest are of the form $\tau \rightarrow p\pi\pi$ or $\tau \rightarrow ll$ where l is either a μ or e lepton. The search was conducted using 384 fb^{-1} of e^+e^- data collected from the BABAR detector at the SLAC PEP-II storage rings. No evidence of the signal has been found, upper limits on the branching fractions are found to be of on the order of 10^{-7} .

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