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Search for the two-body charmless baryonic B -decays $B^0 \rightarrow p\bar{p}$ and $B_s^0 \rightarrow p\bar{p}$ at LHCb

Tuesday, April 8, 2014 4:45 PM (15 minutes)

Results from the recently published search for the rare decays $B^0 \rightarrow p\bar{p}$ and $B_s^0 \rightarrow p\bar{p}$ carried out using 0.92 fb^{-1} of 7 TeV proton-proton collisions collected by the LHCb experiment in 2011 will be presented (arXiv:1308.0961 [hep-ex]). The talk covers the physics motivation for the analysis and the tensions between existing theoretical predictions of the branching fractions, the selection criteria applied and a description of the Feldman-Cousins statistical analysis methods used to extract the branching fractions for the two decay channels. The status of an updated $B^0 \rightarrow p\bar{p}$ and $B_s^0 \rightarrow p\bar{p}$ analysis on the combined 2011 and 2012 data sets will also be presented as will details of a new analysis searching for the decay $B^+ \rightarrow p\bar{\Lambda}$.

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