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Search for the decay $\Lambda_b^0 \rightarrow \Lambda^0 \eta^{(\prime)}$ at LHCb

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Decays involving η and η' mesons are particularly interesting to theorists, as they allow some insight into the relatively poorly understood topic of $\eta - \eta'$ mixing. This subject has been covered extensively using decays of B and B_s mesons, however, no equivalent processes have been observed in the baryonic sector. This talk outlines the search for the rare decay $\Lambda_b^0 \rightarrow \Lambda^0 \eta^{(\prime)}$, using data recorded by the LHCb experiment. Results of the recent search in the data recorded during 2012 are presented, and the prospects for improvement using the full data set are outlined.

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