

CP violation in $\Lambda_b^0 \rightarrow p K^- \pi^+ \pi^-$ and $\Lambda_b^0 \rightarrow p K^- \pi^+ \pi^-$ decays

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The first observation of CP violation in the baryon sector was made in the decay $\Lambda_b^0 \rightarrow p K^- \pi^+ \pi^-$. In addition, the first evidence of CP violation in beauty baryon decays to charmonium was obtained. In this talk, I will present the analyses of these two decays, discussing the methodology, results, and their implications.

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