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## Observation of CP Violation in B+- --> DK+- Decays (Hardback)

By Paolo Gandini

Springer International Publishing AG, Switzerland, 2013. Hardback. Book Condition: New. 2014 ed.. 234 x 152 mm. Language: English . Brand New Book. CP violation is a wellestablished phenomenon in particle physics, but until 2001 it was only observed in kaons. In the last decade, several matterantimatter asymmetries have been observed in neutral B mesons in line with the expectations of the Standard Model of the weak interaction. Direct CP violation is also expected in the decay rates of charged B+ mesons versus that of B- mesons, though the greatest effects are present in a decay that occurs just twice in 10 million decays. Such rarity requires huge samples to study and this is exactly what the LHC, and its dedicated Bphysics experiment LHCb provide. This thesis presents an analysis of the first two years of LHCb data. The author describes the first observation of the rare decay, B- --> DK-, D --> pi-K+ and the first observation of direct CP violation in this B decay. The work constitutes essential information on the experiment s measurement of a fundamental parameter of the theory and stands as a benchmark against which subsequent analyses of this type will be compared.



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