| Record Nr. | UNINA9910300391703321 |
|-------------------------|---|
| Autore | Gordon Hamish |
| Titolo | Searches for CP Violation in Charmed Meson Decays : A Study of D+ K - K+ + at the LHCb Experiment / / by Hamish Gordon |
| Pubbl/distr/stampa | Cham : , : Springer International Publishing : , : Imprint : Springer, , 2014 |
| ISBN | 3-319-07067-3 |
| Edizione | [1st ed. 2014.] |
| Descrizione fisica | 1 online resource (167 p.) |
| Collana | Springer Theses, Recognizing Outstanding Ph.D. Research, , 2190- 5053 |
| Disciplina | 530.14 539.7 |
| Soggetti | Elementary particles (Physics) Quantum field theory String theory Elementary Particles, Quantum Field Theory Quantum Field Theories, String Theory |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Description based upon print version of record. |
| Nota di contenuto | Theoretical Background The LHCb Detector Search for CP Violation in D^+->K^-K^+pi^ Decays with Data Collected at LHCb in 2010 Search for CP Violation in D+ ! + Decays with Data Collected at |
| | LHCb in 2011 Conclusions and Outlook Appendix. |

1.

the Standard Model. Instead an explanation could come from new physics, for example contributions from supersymmetric or other undiscovered heavy particles. In the thesis, the development of new techniques to search for these asymmetries is described. They are applied to data from the LHCb experiment at CERN to make precise measurements of asymmetries in the D^+->K^-K^+pi^+ decay channel. This is the most promising charged D decay for CP violation searches.