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Autore	Hofmann-Wellenhof, B.
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Altri autori (Persone)	Lichtenegger, Herbertauthor Collins, James
Disciplina	623.89/3
Soggetti	Global Positioning System Artificial satellites in navigation
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Livello bibliografico	Monografia
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2. Record Nr.	UNINA9910303441703321
Autore	Cadamuro Luca
Titolo	Search for Higgs Boson Pair Production in the $bb + -$ Decay Channel : with the CMS detector at the LHC // by Luca Cadamuro
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Disciplina	539.721
Soggetti	Particles (Nuclear physics) Quantum field theory String models Elementary Particles, Quantum Field Theory Quantum Field Theories, String Theory
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Nota di contenuto	Preamble -- Introduction to Higgs Boson Pair Production -- Experimental Apparatus -- The L1 Trigger -- Event Selection and Categorization -- Modelling of Physics Processes -- Results on HH $bb + -$ -- Future prospects for HH searches -- Conclusions -- Appendix.
Sommario/riassunto	This thesis presents innovative contributions to the CMS experiment in the new trigger system for the restart of the LHC collisions in Run II, as well as original analysis methods and important results that led to official publications of the Collaboration. The author's novel reconstruction algorithms, deployed on the Field-Programmable Gate Arrays of the new CMS trigger architecture, have brought a gain of over a factor 2 in efficiency for the identification of tau leptons, with a very significant impact on important H boson measurements, such as its decays to tau lepton pairs and the search for H boson pair production. He also describes a novel analysis of HH bb tautau, a high priority physics topic in a difficult channel. The original strategy, optimisation of event categories, and the control of the background have made the result one of the most sensitive concerning the self-coupling of the

Higgs boson among all possible channels at the LHC.
