

1. Record Nr.	UNINA9910346943303321
Autore	Schmidt Alexander
Titolo	Search for H -> bb in association with a tt pair in proton-proton collisions at $\sqrt{s} = 14$ TeV
Pubbl/distr/stampa	KIT Scientific Publishing, 2007
ISBN	1000006775
Descrizione fisica	1 online resource (179 p. p.)
Soggetti	Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	The main topic of this book is the determination of the potential to discover the Higgs boson at the Compact Muon Solenoid (CMS) experiment at the LHC in a certain decay channel. The production mode under investigation is the associated production with top quarks and the subsequent decay into b-quarks. The search for the decay into b-quarks is of special interest, because it has the highest branching ratio in the mass region shortly above the exclusion limit of 114.4 GeV. In addition, this channel facilitates measurements of Higgs coupling properties.