

1. Record Nr.	UNINA9910300434903321
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Titolo	Search for the Higgs Boson in the Vector Boson Fusion Channel at the ATLAS Detector // by Eric Ouellette
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
ISBN	3-319-13599-6
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (114 p.)
Collana	Springer Theses, Recognizing Outstanding Ph.D. Research, , 2190-5053
Disciplina	530 530.8 539.72 539.73
Soggetti	Particle acceleration Particles (Nuclear physics) Quantum field theory Physical measurements Measurement Particle Acceleration and Detection, Beam Physics Elementary Particles, Quantum Field Theory Measurement Science and Instrumentation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction -- Theory -- Status of Higgs Boson Search and Discovery -- The Experiment -- Analysis and Trigger Strategy -- Final Analysis Strategy -- Systematic Uncertainties -- Results and Discussion.
Sommario/riassunto	This Thesis describes the first measurement of, and constraints on, Higgs boson production in the vector boson fusion mode, where the Higgs decays to b quarks (the most common decay channel), at the LHC. The vector boson fusion mode, in which the Higgs is produced simultaneously with a pair of quark jets, provides an unparalleled opportunity to study the detailed properties of the Higgs, including the possibility of parity and CP violation, as well as its couplings and mass. It thus opens up this new field of study for precision investigation as the

LHC increases in energy and intensity, leading the way to this new and exciting arena of precision Higgs research. .
