

1. Record Nr.	UNINA9910254573403321
Autore	Delgado López Rafael
Titolo	Study of the Electroweak Symmetry Breaking Sector for the LHC [[electronic resource] /] / by Rafael Delgado López
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017
ISBN	3-319-60498-8
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (197 pages)
Collana	Springer Theses, Recognizing Outstanding Ph.D. Research, , 2190- 5053
Disciplina	539.7544
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
Nota di contenuto	Introduction -- Chiral EW Lagrangian -- Scattering Amplitudes -- Analytical Properties and Unitarization -- Study of the Parameter Space -- Conclusions.
Sommario/riassunto	In this dissertation, we revisit the prospects of a strongly interacting theory for the Electroweak Symmetry Breaking Sector of the Standard Model, after the discovery of a Higgs-like boson at 125GeV. As the LHC constrains new phenomena near the Higgs mass, it is natural to assume that the new scale is of order 1TeV. This mass gap might indicate strongly interacting new physics. This work is of quite general validity and model independence. With only a few parameters at the Lagrangian level, multiple channels (possibly with new physics resonances) are describable, and many BSM theories can be treated. It will be of interest to postgraduate students and researchers, and is accessible to newcomers in the field. Many calculations are given in full detail and there are ample graphical illustrations.