Advanced Series on Directions in High Energy Physics - Vol. 17

# PERSPECTIVES ON HIGGS PHYSICS II

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# **Perspectives On Higgs Physics**

Herwig Schopper,Luigi Di Lella

#### **Perspectives On Higgs Physics:**

Perspectives On Higgs Physics Gordon Kane, 1993-01-08 The masses of fermions and gauge bosons enter the Standard Model through the Higgs mechanism which is satisfactory technically but is not understood physically We do not know what nature really does to give mass to particles nor what experimental clues will lead us to nature s solution Understanding Higgs physics is necessary in order to complete the Standard Model and to learn how to extend it and improve its foundations This book is a collection of current work and thinking about these guestions by active workers It speculates about what form the answers will take as well as updates and extends previous books and reviews Some chapters emphasize theoretical questions some focus on connections with other areas of physics and some discuss how we can get the data to Perspectives on Higgs Physics II G. L. Kane, 1997 The Standard Model of particle physics is uncover nature s solution extremely successful in describing nature It is however incomplete in one major way the masses of gauge bosons and fermions enter the Standard Model through the Higgs mechanism That is completely satisfactory technically but it is not understood physically We do not yet know what nature really does to give mass to particles Understanding Higgs physics is necessary in order to complete the Standard Model and to learn how to extend it and improve its foundations This book is a collection of current work and thinking about these questions by active workers It speculates about what form the answers will take as well as updates and extends previous books and reviews Some chapters emphasize theoretical questions some focus on connections with other areas of physics and some discuss how we can get data to uncover nature s solution This second edition adds information and insights from the last five years including the recent indirect but statistically significant evidence for the existence of a Higgs boson from precision measurements It contains contributions from Blondel Quiros Haber Pokorski Dawson Janot Mrenna Gunion Ibanez Ross Bigi Carena Wagner Georgi Chanowitz Yuan Hill and others

Proceedings of the International Europhysics Conference on High Energy Physics John Carr, M. Perrottet, 1994
Perspectives on LHC Physics Aaron Pierce, 2008 The Large Hadron Collider LHC located at CERN Geneva Switzerland is the world's largest and highest energy and highest intensity particle accelerator This book provides an overview on the techniques that will be crucial for finding new physics at the LHC as well as perspectives on the importance and implications of the discoveries Among the contributors to this book are leaders and visionaries in the field of particle physics beyond the Standard Model including two Nobel Laureates Steven Weinberg and Frank Wilczek and presumably some future Nobel Laureates plus top younger theorists and experimenters

Atlas: A 25-year Insider Story Of The Lhc Experiment Peter Jenni, Fridolin Dittus, 2019-05-21 This book is written by the ATLAS Collaboration at CERN's Large Hadron Collider LHC to document and reflect on its more than 25 years of history It covers all aspects of this global science project at the forefront of particle physics The historical part recalls first the early stages of discussions in the community leading to the formation of the collaboration in 1992 In a unique approach the second part documents the evolution from early detector concepts to the

final instrument covering the technical financial and human aspects This includes the phases of construction of detector components in the various institutes around the world as well as their installation and commissioning in the underground cavern at CERN An important part is devoted to the operation of the whole experiment The book highlights the capabilities and physics accomplishments so far including the Higgs boson discovery jointly announced with CMS It features the various aspects of a broad spectrum of activities needed to arrive at the physics results The book includes also an outlook to the detector upgrade activities preparing the experiment for the high luminosity LHC phase of the next decades Last but not least it reveals the human aspects of the large ATLAS community working together pursuing common physics goals The book is aimed at a broad readership with interest in large science projects and their history as well as in the human endeavour of a worldwide collaboration **60 Years Of Cern Experiments And Discoveries** Herwig Schopper, Luigi Di Lella, 2015-07-13 The book is a compilation of the most important experimental results achieved during the past 60 years at CERN from the mid 1950s to the latest discovery of the Higgs particle Covering the results from the early accelerators at CERN to those most recent at the LHC the contents provide an excellent review of the achievements of this outstanding laboratory Not only presented is the impressive scientific progress achieved during the past six decades but also demonstrated is the special way Massive Neutrinos: Flavor Mixing Of Leptons And in which successful international collaboration exists at CERN Neutrino Oscillations Harald Fritzsch, 2015-08-28 Since the discovery of neutrino oscillations neutrino physics has become an interesting field of research in physics They imply that neutrino must have a small mass and that the neutrinos coupled to the charged leptons are mixtures of the mass eigenstates analogous to the flavor mixing of the guarks. The mixing angles for the guarks are small but for the leptons two of the mixing angles are large. The masses of the three neutrinos must be very small less than 1 eV but from the oscillation experiments we only know the mass differences the absolute masses are still unknown Also we do not know if the masses of the neutrinos are Dirac masses as the masses of the charged leptons and of the quarks or whether they are Majorana masses In this volume an overview of the present state of research in neutrino physics is given by well known experimentalists and theorists The contents originated from talks and discussions at a recent conference addressing some of the most pressing open questions in neutrino physics range from the oscillation experiments to CP violation for leptons to texture zero mass matrices and to the role of neutrinos in astrophysics and cosmology **Energy Physics Index** ,1993 Lepton Dipole Moments B. Lee Roberts, William J. Marciano, 2010 This book provides a self contained description of the measurements of the magnetic dipole moments of the electron and muon along with a discussion of the measurements of the fine structure constant and the theory associated with magnetic and electric dipole moments Also included are the searches for a permanent electric dipole moment of the electron muon neutron and atomic nuclei The related topic of the transition moment for lepton flavor violating processes such as neutrinoless muon or tauon decays and the search for such processes are included as well The papers written by many of the leading authors in this field cover both

the experimental and theoretical aspects of these topics Sample Chapter's Chapter 1 Historical Introduction to Electric and Mangnetic Moments 367 KB Contents Historical Introduction B L Roberts Electromagnetic Dipole Moments and New Physics A Czarnecki Lepton g OCo 2 from 1947 to Present T Kinoshita Analytic QED Calculations of the Anomalous Magnetic Moment of the Electron S Laporta Measurements of the Electron Magnetic Moment G Gabrielse Determining the Fine Structure Constant G Gabrielse Helium Fine Structure Theory for the Determination of K Pachucki Hadronic Vacuum Polarization and the Lepton Anomalous Magnetic Moments M Davier The Hadronic Light by Light Contribution to a e J Prades et al General Prescriptions for One loop Contributions to a e K R Lynch Measurement of the Muon g OCo 2 Value J P Miller et al Muon g OCo 2 and Physics Beyond the Standard Model D StAckinger Probing CP Violation with Electric Dipole Moments M Pospelov The Electric Dipole Moment of the Electron E D Commins Neutron EDM Experiments S K Lamoreaux Nuclear Electric Dipole Moments W C Griffith et al EDM Measurements in Storage Rings B L Roberts et al Models of Lepton Flavor Violation Y Okada Search for the Charged Lepton Flavor Violating Transition Moments l OaAE l OC Y Kuno Readership Researchers and graduate students in particle physics atomic physics and nuclear physics as well as experts working in the field Parton Interactions At The Lhc Paolo Bartalini, Jonathan Richard Gaunt, 2018-11-02 Many high energy collider experiments including the current Large Hadron Collider at CERN involve the collision of hadrons Hadrons are composite particles consisting of partons quarks and gluons and this means that in any hadron hadron collision there will typically be multiple collisions of the constituents i e multiple parton interactions MPI Understanding the nature of the MPI is important in terms of searching for new physics in the products of the scatters and also in its own right to gain a greater understanding of hadron structure This book aims at providing a pedagogical introduction and a comprehensive review of different research lines linked by an involvement of MPI phenomena It is written by pioneers as well as young leading scientists and reviews both experimental findings and theoretical developments discussing also the remaining open issues High Luminosity Large Hadron Collider, The: The New Machine For Illuminating The Mysteries Of Universe Oliver Bruning, Lucio Rossi, 2015-08-28 This book provides a broad introduction to the physics and technology of the High Luminosity Large Hadron Collider HL LHC This new configuration of the LHC is one of the major accelerator projects for the next 20 years and will give new life to the LHC after its first 15 year operation Not only will it allow more precise measurements of the Higgs boson and of any new particles that might be discovered in the next LHC run but also extend the mass limit reach for detecting new particles The HL LHC is based on the innovative accelerator magnet technologies capable of generating 11 13 Tesla fields with effectiveness enhanced by use of the new Achromatic Telescopic Squeezing scheme and other state of the art accelerator technologies such as superconducting compact RF crab cavities advanced collimation concepts and novel power technology based on high temperature superconducting links The book consists of a series of chapters touching on all issues of technology and design and each chapter can be read independently. The first few chapters give a summary of the

whole project of the physics motivation and of the accelerator challenges The subsequent chapters cover the novel technologies the new configurations of LHC and of its injectors as well as the expected operational implications Altogether the book brings the reader to the heart of technologies for the leading edge accelerator and gives insights into next Technology Meets Research - 60 Years Of Cern Technology: Selected Highlights generation hadron colliders Christian W Fabjan, Thomas Taylor, Daniel Treille, Horst Wenninger, 2017-04-27 The contributions from leading scientists of the day collected in this relatively slim book document CERN s 60 year voyage of innovation and discovery the repercussions of which vindicate the vision of those who drove the foundation of the laboratory European in constitution but global in impact The spirit of inclusive collaboration which was a key element of the original vision for the laboratory together with the aim of technical innovation and scientific excellence are reflected in each of the articles in this unique volume CERN Courier Big science and advanced technology are known to cross fertilize This book emphasizes the interplay between particle physics and technology at CERN that has led to breakthroughs in both research and technology over the laboratory s first 60 years The innovations often the work of individuals or by small teams are illustrated with highlights describing selected technologies from the domains of accelerators and detectors. The book also presents the framework and conditions prevailing at CERN that enabled spectacular advances in technology and contributed to propel the European organization into the league of leading research laboratories in the world While the book is specifically aimed at providing information for the technically interested general public more expert readers may also appreciate the broad variety of subjects presented Ample references are given for those who wish to further explore a given topic The High Luminosity Large Hadron Collider Oliver Brüning, Lucio Rossi, 2015-08-28 This book provides a broad introduction to the physics and technology of the High Luminosity Large Hadron Collider HL LHC This new configuration of the LHC is one of the major accelerator projects for the next 20 years and will give new life to the LHC after its first 15 year operation Not only will it allow more precise measurements of the Higgs boson and of any new particles that might be discovered in the next LHC run but also extend the mass limit reach for detecting new particles The HL LHC is based on the innovative accelerator magnet technologies capable of generating 11 13 Tesla fields with effectiveness enhanced by use of the new Achromatic Telescopic Squeezing scheme and other state of the art accelerator technologies such as superconducting compact RF crab cavities advanced collimation concepts and novel power technology based on high temperature superconducting links The book consists of a series of chapters touching on all issues of technology and design and each chapter can be read independently. The first few chapters give a summary of the whole project of the physics motivation and of the accelerator challenges The subsequent chapters cover the novel technologies the new configurations of LHC and of its injectors as well as the expected operational implications Altogether the book brings the reader to the heart of technologies for the leading edge accelerator and gives insights into next generation hadron colliders Higgs boson potential at colliders: status and perspectives Biagio Di

Micco, Caterina Vernieri, Javier Mazzitelli, Maxime Gouzevitch, 2020-12-18 Ouesto documento riassume lo stato attuale degli ricerche studi teorici e sperimentali sulla produzione di coppie di bosoni di Higgs e sui vincoli sia diretti che indiretti al valore del termine di auto interazione del bosone di Higgs con l'intento di servire da referenza per i prossimi anni Il documento discute lo stato degli studi teorici includendo le pi recenti stime della sezione di produzione di coppie di bosoni di Higgs sviluppi sulle teorie di campo efficaci e studi su specifici scenari di nuova fisica che possono contribuire alla produzione di due bosoni di Higgs Sono presentati i pi recenti risultati sperimentali sulle ricerche di coppie di bosoni di Higgs e sui limiti diretti e indiretti al termine di auto interazione ottenuti al Large Hadron Collider di Ginevra con una panoramica delle tecniche sperimentali Infine sono discusse le capacit dei collisionatori futuri di determinare il termine di auto interazione del bosone di Higgs Questo lavoro iniziato come raccolta di contributi della conferenza Di Higgs ai Colliders che ha avuto luogo a Fermilab dal 4 al 9 settembre 2018 ma gli argomenti discussi vanno al di l di quelli presentati alla conferenza includendo ulteriori sviluppi DOI 10 13134 979 12 80060 85 3 International Europhysics Conference on High Energy Physics Daniel Lellouch, Giora Mikenberg, Eliezer Rabinovici, 1999 The 1997 International Europhysics Conference on High Energy Physics was held at the campus of the Hebrew University of Jerusalem and at the Jerusalem Renaissance Hotel from August 19th to August 25th 1997 This was the first time that the European Physical Society had its High Energy Physics Conference outside the boundary of Europe A total of 550 physicists participated in the conference with a total of 250 presentations in the parallel sessions and 26 presentations in the plenary sessions. The Board of the High Energy and Particle Physics division HEPP of the EPS acted as the Scientific Organizing Committee The Board acknowl edges the help of the International Advisory Committee as well as that of the Local Organizing Committee The conference was co organized by the Hebrew University of Jerusalem and by the Weizmann Institute of Science with important help by physi cists from the Israeli Institute of Technology Technion and the Tel Aviv University Revista mexicana de física .1996 Electroweak Symmetry Breaking ,1995 Acta Physica Polonica, 1999 Particle Physics After the Higgs Discovery Simon Friederich, 2015 Physics Letters ,2001

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