

}essentials{

Alexander Knochel

Neustart des LHC: das Higgs-Teilchen und das Standardmodell

Die Teilchenphysik hinter der
Weltmaschine anschaulich erklärt



Springer Spektrum

Neustart Lhc Higgs Teilchen Standardmodell Teilchenphysik

**T. Binoth, C. Buttar, P. J. Clark, E.W.N.
Glover**



Neustart Lhc Higgs Teilchen Standardmodell Teilchenphysik:

Neustart des LHC: das Higgs-Teilchen und das Standardmodell Alexander Knochel, 2016-01-13 Dieses Essential gibt eine kompakte Einführung in unser aktuelles Bild der Elementarteilchenphysik. Es legt dabei den Schwerpunkt auf Phänomene wie das Higgs-Teilchen, welche am Large Hadron Collider LHC erforscht werden. Der LHC am Forschungszentrum CERN bei Genf ist der leistungsfähigste Beschleuniger der Welt und läuft seit dem Frühjahr 2015 erneut mit Rekordenergie. Der Autor beschreibt wie das sogenannte Standardmodell der Teilchenphysik aufgebaut ist und wie die Experimente des LHC es durch genauere Messungen festigen und durch neue Entdeckungen revolutionieren können. Dabei werden die wichtigsten grundlegenden Begriffe erklärt. Was sind beispielsweise virtuelle Teilchen und welche Rolle spielen sie in der Natur? Was ist eine Quantenfeldtheorie? Sind die Elementarteilchen wirklich elementar? Was ist Symmetriebrechung?

Neustart des LHC: die Entdeckung des Higgs-Teilchens Michael Hauschild, 2018-08-24 Michael Hauschild führt den Leser zurück ins Jahr 2012 als am CERN dem Europäischen Forschungszentrum für Teilchenphysik bei Genf einem der faszinierendsten Forschungszentren überhaupt die Entdeckung des Higgs-Teilchens nach einer langen Jagd am Large Hadron Collider LHC verkündet wurde. Der Autor erläutert anschaulich den Higgs-Mechanismus zur Erzeugung von Masse mit der zentralen Rolle des Higgs-Teilchens in der aktuellen Teilchenphysik. Nach einer Pause von mehr als zwei Jahren wurde der LHC der größte Teilchenbeschleuniger der Welt und die heutige Weltmaschine im Frühjahr 2015 wieder in Betrieb genommen, um mit höherer Energie als je zuvor die Geheimnisse der Natur zu entschlüsseln. Ein Überblick über zukünftige Projekte bildet den Abschluss dieses Essentials. Der Autor Dr. Michael Hauschild ist Teilchenphysiker am CERN in Genf und seit 2005 Mitglied des ATLAS Experiments am Large Hadron Collider LHC. Während der ersten langen Messperiode des LHC von 2010 bis 2012 hat er die Entdeckung des Higgs-Teilchens im Sommer 2012 unmittelbar miterlebt.

Neustart des LHC: die Detektoren Michael Hauschild, 2018-08-30 Michael Hauschild führt den Leser dieses Essentials zurück in den September 2008 zum stolprigen Start des Large Hadron Collider LHC des größten Teilchenbeschleunigers der Welt und der heutigen Weltmaschine am CERN dem Europäischen Forschungszentrum für Teilchenphysik bei Genf, einem der faszinierendsten Forschungszentren überhaupt. Der Autor erläutert wie ausgehend von den ersten Ideen die großen Kollaborationen am LHC entstanden. Zusammenschlüsse von bis zu 3.000 Physikern. Die Kollaborationen sind es, die mit Hilfe von riesigen Teilchendetektoren die Kollisionen am LHC vermessen und dabei auf die Entdeckung von neuen Teilchen hoffen. Nach einer Pause von mehr als zwei Jahren wurde der LHC im Frühjahr 2015 wieder in Betrieb genommen, um mit höherer Energie als je zuvor die Geheimnisse der Natur zu entschlüsseln. Der Autor Dr. Michael Hauschild ist Teilchenphysiker am CERN in Genf und seit 2005 Mitglied des ATLAS Experiments am Large Hadron Collider LHC. Während der ersten langen Messperiode des LHC von 2010 bis 2012 hat er die Entdeckung des Higgs-Teilchens im Sommer 2012 unmittelbar miterlebt.

Neustart des LHC: neue Physik Alexander Knochel, 2016-05-24 In diesem Essential gibt Alexander Knochel einen Überblick über aktuelle Probleme und offene Fragen der

Teilchenphysik und Kosmologie und erläutert wie der Large Hadron Collider zu ihrer Klärung beitragen kann. Dazu nimmt der Autor den Leser mit auf einen Streifzug durch neue physikalische Phänomene, die Grenzen unserer bisherigen Theorien und theoretische Überlegungen, was uns bei diesen bisher im Labor unerreichten Energieskalen erwarten könnten. Es wird spannend, denn der leistungsfähigste Teilchenbeschleuniger der Welt, der Large Hadron Collider, läuft wieder mit Rekordenergie.

Neustart des LHC: CERN und die Beschleuniger Michael Hauschild, 2016-05-31 Michael Hauschild führt den Leser dieses Essentials zurück zu den Anfängen des CERN, des Europäischen Forschungszentrums für Teilchenphysik bei Genf, einem der faszinierendsten Forschungszentren überhaupt zu seiner Geschichte, zu seinen Menschen und seinen Beschleunigern. Der Autor erläutert die Funktionsweise von Teilchenbeschleunigern und wie ausgehend von den ersten Ideen schließlich der Large Hadron Collider LHC gebaut wurde, der größte Teilchenbeschleuniger der Welt und die heutige Weltmaschine. Nach einer Pause von mehr als zwei Jahren wurde der LHC im Frühjahr 2015 wieder in Betrieb genommen, um mit höherer Energie als je zuvor die Geheimnisse der Natur zu entschlüsseln.

Vielfältige Physik Deborah Duchardt, Andrea B. Bossmann, Cornelia Denz, 2019-05-10 Physik ist spannend, faszinierend und vielfältig. In diesem Buch begeistern Sie mehr als 30 Wissenschaftlerinnen für die Physik. Sie geben überraschende Einblicke in ihre aktuelle Forschung, erklären anschaulich komplexe Sachverhalte und stellen neu entdeckte Phänomene der modernen Physik verständlich dar. Jedes Kapitel wird mit einer persönlichen Biographie der Wissenschaftlerin und hilfreichen Tipps eingeleitet. So lernen Sie inspirierende Frauen aus der Wissenschaft kennen und erfahren, was ihnen an der Physik Spaß macht. Das Buch richtet sich an angehende Wissenschaftlerinnen und Wissenschaftler, Schülerinnen und Schüler und alle Interessierten, die mehr über spannende Forschung am Puls der Zeit erfahren möchten. Es beinhaltet folgende Themen: Physik und Gesellschaft, Philosophie und Physik, Wissenschaftsgeschichte, Didaktik und Geschlechterforschung in der Physik, Kern- und Teilchenphysik, Festkörper, Nano- und Materialphysik, Quantenoptik und Photonik, Nichtlineare Physik, Bio- und Medizinphysik, Astro- und Planetenphysik.

Spektrum Kompakt - 70 Jahre CERN Spektrum der Wissenschaft, 2024-12-05 Es war ein verwegenes Unterfangen. Mitten in Europas Trümmern sollte eine Organisation Nationen zusammenbringen, die sich zehn Jahre zuvor noch auf den Schlachtfeldern des Zweiten Weltkriegs gegenüberstanden. Hatten sie zur friedlichen Forschung ausgerechnet, an den Vorgängen, die in eben jenem Krieg ihre Eignung als unvorstellbar zerstörerische Waffe bewiesen hatten. Doch das Wagnis lohnte sich. Bald schon erwuchs aus der neu beschworenen Gemeinschaftsarbeit Teilchenforschung auf Spitzenniveau. Davon zeugen nicht nur Nobelpreise, sondern insbesondere der Enthusiasmus, mit dem alle Menschen vom CERN sprechen, die es selbst erlebt haben. Wie man mit Blick auf ein Menschheitsziel Eitelkeiten beiseitelegt und statt tiefer Zerwürfnisse eine gesunde Konkurrenz pflegt, das ist, was die Welt nicht nur die wissenschaftliche vom CERN lernen kann. Sie hat es heute, 70 Jahre nach dessen Gründung, wieder besonders nötig.

Beyond Standard Model Collider Phenomenology of Higgs Physics and Supersymmetry Marc Christopher Thomas, 2016-08-01 This thesis studies collider phenomenology of physics beyond the

Standard Model at the Large Hadron Collider LHC It also explores in detail advanced topics related to Higgs boson and supersymmetry one of the most exciting and well motivated streams in particle physics In particular it finds a very large enhancement of multiple Higgs boson production in vector boson scattering when Higgs couplings to gauge bosons differ from those predicted by the Standard Model The thesis demonstrates that due to the loss of unitarity the very large enhancement for triple Higgs boson production takes place This is a truly novel finding The thesis also studies the effects of supersymmetric partners of top and bottom quarks on the Higgs production and decay at the LHC pointing for the first time to non universal alterations for two main production processes of the Higgs boson at the LHC vector boson fusion and gluon gluon fusion Continuing the exploration of Higgs boson and supersymmetry at the LHC the thesis extends existing experimental analysis and shows that for a single decay channel the mass of the top quark superpartner below 175 GeV can be completely excluded which in turn excludes electroweak baryogenesis in the Minimal Supersymmetric Model This is a major new finding for the HEP community This thesis is very clearly written and the introduction and conclusions are accessible to a wide spectrum of readers

Adventure Of The Large Hadron Collider, The: From The Big Bang To The Higgs Boson Daniel Denegri, Claude Guyot, Andreas Hoecker, Lydia Roos, 2021-11-08 An introduction to the world of quarks and leptons and of their interactions governed by fundamental symmetries of nature as well as an introduction to the connection that exists between worlds of the infinitesimally small and the infinitely large The book begins with a simple presentation of the theoretical framework the so called Standard Model which evolved gradually since the 1960s The key experiments establishing it as the theory of elementary particle physics but also its missing pieces and conceptual weaknesses are introduced The book proceeds with the extraordinary story of the Large Hadron Collider at CERN the largest purely scientific project ever realized Conception design and construction by worldwide collaborations of the detectors of size and complexity without precedent in scientific history are discussed The book then offers the reader a state of the art 2020 appreciation of the depth and breadth of the physics exploration performed by the LHC experiments the study of new forms of matter the understanding of symmetry breaking phenomena at the fundamental level the exciting searches for new physics such as dark matter additional space dimensions new symmetries and more The adventure of the LHC culminated in the discovery of the Higgs boson in 2012 Nobel Prize in Physics in 2013 The last chapter of this book describes the plans for the LHC during the next 15 years of exploitation and improvement and the possible evolution of the field and future collider projects under consideration The authors are researchers from CERN CEA and CNRS France and deeply engaged in the LHC program D Denegri in the CMS experiment C Guyot A Hoecker and L Roos in the ATLAS experiment Some of them are involved since the inception of the project They give a lively and accessible inside view of this amazing scientific and human adventure

Higgs, Supersymmetry and Dark Matter After Run I of the LHC Béranger Dumont, 2016-09-21 This work was nominated as an outstanding PhD thesis by the LPSC Universit Grenoble Alpes France The LHC Run 1 was a milestone

in particle physics leading to the discovery of the Higgs boson the last missing piece of the so called Standard Model SM and to important constraints on new physics which challenge popular theories like weak scale supersymmetry This thesis provides a detailed account of the legacy of the LHC Run 1 regarding these aspects First the SM and the need for its extension are presented in a concise yet revealing way Subsequently the impact of the LHC Higgs results on scenarios of new physics is assessed in detail including a careful discussion of the relevant uncertainties Two approaches are considered generic modifications of the Higgs couplings possibly arising from extended Higgs sectors or higher dimensional operators and tests of specific new physics models Lastly the implications of the null results of the searches for new physics are discussed with a particular focus on supersymmetric dark matter candidates Here as well two approaches are presented the simplified models approach and recasting by event simulation This thesis stands out for its educational approach its clear language and the depth of the physics discussion The methods and tools presented offer readers essential practical tools for future research

Higgs Properties at the LHC Jason Tsz Shing Yue, 2017-08-29 This thesis studies the properties of the Higgs particle discovered at the Large Hadron Collider LHC in 2012 in order to elucidate its role in electroweak symmetry breaking and cosmological phase transition in the early universe It shows that a generic spin 2 Higgs impostor is excluded by the precision measurements of electroweak observables and perturbative unitarity considerations It obtains LHC constraints on anomalous CP violating Higgs Top Yukawa couplings and examines the prospects of their measurement in future experiments Lastly it discusses in detail the electroweak phase transition and generation of cosmological matter antimatter asymmetry in the universe with anomalous Higgs couplings [The Adventure of the Large Hadron Collider](#) Daniel

Denegri, Claude Guyot, Andreas Hoecker, 2021 **Die Entdeckung des Unteilbaren** Jörg Resag, 2013-10-18 Mitten in Europa ist eine der gr ten und komplexesten Maschinen in Betrieb gegangen die wir Menschen je gebaut haben der Large Hadron Collider kurz LHC Mit ihm ffnet sich ein Fenster in eine neue Welt die viele Geheimnisse birgt Was verleiht den Teilchen der Materie ihre Masse Gibt es verborgene Raumdimensionen Existiert ein tiefer Zusammenhang zwischen Teilchen mit verschiedenem Spin Supersymmetrie Woraus besteht die dunkle Materie die unser Universum durchdringt Gibt es das Higgs Teilchen Mit diesem Buch taucht der Leser ein in diese wunderbare Welt die wir Menschen in der Neuzeit entdeckt haben Atome und ihre Substruktur aus Quarks und Leptonen die r tselhafte Quantenmechanik Teilchen des Lichts Einsteins Gewebe aus Raum und Zeit die vier Wechselwirkungen und schlie lich die neue Welt in die der LHC gerade vordringt und in der wir Higgs Teilchen Supersymmetrie und wom glich erste Anzeichen f r die String Theorie vermuten Die erste Vermutung konnte mittlerweile best tigt werden Im Sommer 2012 wurde am LHC die Entdeckung des Higgs Teilchens bekannt gegeben Nach der Lekt re ist klar Wir leben in einer erstaunlichen Welt und sind gerade im Begriff bei der Entr tselung ihrer Geheimnisse einen entscheidenden Schritt nach vorne zu gehen F r die 2 Auflage hat der Autor das Buch aktualisiert und um neueste Erkenntnisse erg nzt ber den Autor J rg Resag hat in Bonn Physik und Astronomie studiert und in theoretischer

Physiker der Quarkstruktur von Elementarteilchen promoviert Er arbeitet derzeit in der chemisch pharmazeutischen Industrie Im Spektrum Verlag ist 2012 sein zweites Buch Zeitpfad Die Geschichte unseres Universums und unseres Planeten erschienen Leserstimmen zur ersten Auflage Dem theoretischen Physiker Jürg Resag ist ein sehr interessantes unterhaltsames und didaktisch exzellentes Buch gelungen das sowohl interessierten Laien wie Experten die Geheimnisse der Quantenphysik das Standardmodell die Relativitätstheorie und Kosmologie und schließlich die Superstrings vorstellt Sehr komplexe Zusammenhänge werden sehr klar und verständlich erläutert Treffpunkt Buch plus Kein einfaches aber dafür höchst empfehlenswertes Werk ekz Informationsdienst Exploring the Large Hadron Collider – The Discovery of the Higgs

Particle Michael Hauschild, 2022-02-12 Michael Hauschild takes the reader of this essential back to the year 2012 when the discovery of the Higgs particle was announced at CERN the European Organization for Nuclear Research near Geneva Switzerland The author vividly explains the Higgs mechanism for mass generation with the central role of the Higgs particle in current particle physics and the long hunt for its discovery at the Large Hadron Collider LHC After a stop of more than two years the LHC the world's largest particle accelerator was put back into operation in spring 2015 to discover the secrets of nature at higher energy than ever before An overview of future projects concludes this essential The Author Dr Michael Hauschild is a particle physicist at CERN in Geneva and has been a member of the ATLAS experiment at the Large Hadron Collider LHC since 2005 During the first long measurement period of the LHC from 2010 to 2012 he witnessed the discovery of the Higgs particle in summer 2012 This Springer essential is a translation of the original German 1st edition essentials Neustart des LHC die Entdeckung des Higgs Teilchens by Michael Hauschild published by Springer Fachmedien Wiesbaden GmbH part of Springer Nature in 2018 The translation was done with the help of artificial intelligence machine translation by the service DeepL.com A subsequent human revision was done primarily in terms of content so that the book will read stylistically different from a conventional translation Springer Nature works continuously to further the development of tools for the production of books and on the related technologies to support the authors **Adventures of the Large Hadron**

Collider, The: from the Big Bang to the Higgs Boson Daniel Denegri, Claude Guyot, Andreas Hoecker, Lydia Roos, 2021 An introduction to the world of quarks and leptons and of their interactions governed by fundamental symmetries of nature as well as an introduction to the connection that exists between worlds of the infinitesimally small and the infinitely large The book begins with a simple presentation of the theoretical framework the so called Standard Model which evolved gradually since the 1960s The key experiments establishing it as the theory of elementary particle physics but also its missing pieces and conceptual weaknesses are introduced The book proceeds with the extraordinary story of the Large Hadron Collider at CERN the largest purely scientific project ever realized Conception design and construction by worldwide collaborations of the detectors of size and complexity without precedent in scientific history are discussed The book then offers the reader a state of the art 2020 appreciation of the depth and breadth of the physics exploration performed by the LHC experiments the

study of new forms of matter the understanding of symmetry breaking phenomena at the fundamental level the exciting searches for new physics such as dark matter additional space dimensions new symmetries and more The adventure of the LHC culminated in the discovery of the Higgs boson in 2012 Nobel Prize in Physics in 2013 The last chapter of this book describes the plans for the LHC during the next 15 years of exploitation and improvement and the possible evolution of the field and future collider projects under consideration The authors are researchers from CERN CEA and CNRS France and deeply engaged in the LHC program D Denegri in the CMS experiment C Guyot A Hoecker and L Roos in the ATLAS experiment Some of them are involved since the inception of the project They give a lively and accessible inside view of this amazing scientific and human adventure

Die Weltmaschine Don Lincoln, 2011-04-07 Der Large Hadron Collider eine Entdeckungsmaschine Herzlich willkommen in einer neuen Welt der Welt der Teilchen Kräfte und der Physiker Sie werden in diesem Buch nicht nur riesige Maschinen und kleinste Teilchen kennenlernen sondern auch eine Vorstellung von den Menschen bekommen die jeden Tag voller Begeisterung jene Teilchen und Kräfte erforschen Und eins müssen Sie gleich zu Anfang bei uns Physiker wissen Unser Alltag besteht nicht nur aus der Suche nach Antworten sondern auch aus der Suche nach neuen tiefer gehenden Fragen Aber keine Sorge Don Lincoln ein waschechter Physiker der sogar an der Entdeckung eines neuen Teilchens beteiligt war stellt keineswegs nur Fragen er gibt auch viele Antworten Die deutsche Ausgabe seines Buches konnte kaum zu einem besseren Zeitpunkt erscheinen Die Weltmaschine Large Hadron Collider läuft inzwischen sehr erfolgreich und Physiker aus der ganzen Welt sind derzeit kräftig dabei Daten zu sammeln deren Auswertung wird uns hoffentlich Antworten auf einige der Fragen und ungelösten Rätsel beschaffen die Don hier vorstellt Wenn Sie also schon immer wissen wollten was dieser Large Hadron Collider wir nennen ihn kurz LHC eigentlich ist wie er funktioniert und warum es ihn überhaupt gibt wird Ihnen sein Buch ein großes Stück weiterhelfen Und wenn Sie dann in ein paar Jahren von der Entdeckung des Higgs Teilchens am CERN lesen oder das Wort Supersymmetrie in den Medien die Runde macht wissen Sie mehr über das Abenteuer das zu diesen Entdeckungen und damit zu einer neuen Physik geführt hat Und Sie wissen auch dass mit jeder Entdeckung wieder ganz neue Fragen kommen und neue Abenteuer beginnen Rolf Dieter Heuer CERN Generaldirektor im Geleitwort zur deutschen Ausgabe Die Weltmaschine ist ein erstklassiger Überblick über das derzeit leistungsstärkste Werkzeug der Hochenergiephysiker Scientific American Book Club Brilliant räumt Lincoln mit dem bekannten Mythos auf der LHC sei allein zur Entdeckung des Higgs Bosons oder Gottesteilchens gebaut worden Dies ist ein viel weiter reichendes Projekt Seine frischen Analogien und Einsichten machen dieses Buch sehr lesbar New Scientist _____

Unter der Grenze zwischen Frankreich und der Schweiz läuft ein Teilchenbeschleuniger mit der höchsten Energie die je ein von Menschen gebauter Beschleuniger erreicht hat der Large Hadron Collider LHC Am 10 September 2008 nahm er begleitet von einem gewaltigen Medieninteresse weltweit seinen Betrieb auf ähnlich große internationale Aufmerksamkeit erregte dann neun Tage später der Vorfall der zur vorübergehenden Abschaltung und notwendigen Reparatur der

hochkomplexen Apparatur für heute. Inzwischen ist die Weltmaschine wie sie auch genannt wird wieder in Betrieb. Sie liefert einwandfrei und liefert vielversprechende Ergebnisse. Mit der nach und nach gesteigerten Leistung beginnt sich am Horizont bereits eine neue Physik abzuzeichnen. Durch die Kollision von Teilchen, die sehr viel kleiner sind als Atome, kann der LHC Bedingungen erzeugen wie sie vermutlich unmittelbar nach dem Urknall in unserem Universum geherrscht haben. Die Physiker hoffen mit dem LHC unser Universum besser zu verstehen, den fundamentalen Kräften der Natur auf die Spur zu kommen und möglicherweise das letzte noch fehlende Puzzleteil im Standardmodell der Physik, das Higgs-Boson, zu finden.

Don Lincoln erläutert in diesem Buch, wie der Beschleuniger funktioniert und welche Entdeckungen man sich von ihm erhofft. So werden wir in den nächsten Jahren manches Neues über die Physik der Elementarteilchen erfahren und vielleicht die Natur der dunklen Materie entschlüsseln, supersymmetrische Teilchen finden, Anzeichen für zusätzliche Raumdimensionen erkennen und den Ursprung der Masse in unserem Universum verstehen. Tausende von Physikern auf der ganzen Welt forschen am LHC und bisher kann niemand mit Gewissheit sagen, welche Geheimnisse dieses internationale Großforschungsprojekt enthalten wird. Doch wie auch immer diese Entdeckungen im Einzelnen aussehen mögen, die Ergebnisse der LHC-Experimente werden unser Verständnis vom Kosmos grundlegend verändern und die Forscher, ob Amateure oder Fachwissenschaftler, für viele Jahre zu neuen Ideen anregen.

LHC Physics T. Binoth, C. Buttar, P. J. Clark, E.W.N. Glover, 2012-04-25 Exploring the phenomenology of the Large Hadron Collider LHC at CERN. LHC Physics focuses on the first years of data collected at the LHC as well as the experimental and theoretical tools involved. It discusses a broad spectrum of experimental and theoretical activity in particle physics from the searches for the Higgs boson and physics beyond the Standard Model.

Was kommt nach dem Higgs-Boson? Pauline Gagnon, 2019-11-04

Exploring the Large Hadron Collider - The Discovery of the Higgs Particle Michael Hauschild, 2021 Michael Hauschild takes the reader of this essential back to the year 2012 when the discovery of the Higgs particle was announced at CERN, the European Organization for Nuclear Research near Geneva, Switzerland. The author vividly explains the Higgs mechanism for mass generation with the central role of the Higgs particle in current particle physics and the long hunt for its discovery at the Large Hadron Collider LHC. After a stop of more than two years, the LHC, the world's largest particle accelerator, was put back into operation in spring 2015 to discover the secrets of nature at higher energy than ever before. An overview of future projects concludes this essential. This Springer essential is a translation of the original German 1st edition 'essentials Neustart des LHC: die Entdeckung des Higgs Teilchens' by Michael Hauschild, published by Springer Fachmedien Wiesbaden GmbH, part of Springer Nature, in 2018. The translation was done with the help of artificial intelligence machine translation by the service DeepL.com. A subsequent human revision was done primarily in terms of content so that the book will read stylistically different from a conventional translation. Springer Nature works continuously to further the development of tools for the production of books and on the related technologies to support the authors. The Content: Mass does it. How the particles get their mass. From UFOs and more. The LHC goes into the next

round The plan of the century Higgs what next The Target groups Scientifically interested laymen and students Lecturers and students of the Studium Generale and the natural sciences The Author Dr Michael Hauschild is a particle physicist at CERN in Geneva and has been a member of the ATLAS experiment at the Large Hadron Collider LHC since 2005 During the first long measurement period of the LHC from 2010 to 2012 he witnessed the discovery of the Higgs particle in summer 2012

Particle Physics in the LHC Era Giles Barr, Robin Devenish, Roman Walczak, Tony Weidberg, 2016 A core text for advanced undergraduate courses in particle physics This book covers the required mathematical and theoretical tools required for understanding the Standard Model of particle physics It explains the accelerator and detector physics which are needed for the experiments that underpin the Standard Model

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