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this textbook is a unique treatise on the present status of particle physics summarised for physics students at an introductory level it provides insights into the essential experimental and theoretical techniques needed to start research at modern high energy accelerators such as the large hadron collider at cern the first three parts of the book discuss the experimental and phenomenological aspects at a level suitable for msc students but bsc students interested in particle physics will also find useful information there the fourth part is oriented to advanced msc or phd students to make them acquainted with the precise formulation of the standard model of particle interactions as well as with the mathematical background needed for the correct interpretation of the experimental results in this two step approach the book offers a gradually deepening understanding of particle physics building up the standard model and providing an overview of its verification together with the necessary theoretical and experimental techniques using the example of the simplest present day experiments it is explained how one can obtain experimental results and theoretical estimations for measurable quantities from clear basic principles the sources of uncertainties and the methods of improving precision are also discussed in 1964 a mechanism explaining the origin of particle masses was proposed by robert brout françois englert and peter w higgs 48 years later in 2012 the so called higgs boson was discovered in proton proton collisions recorded by experiments at the lhc since then its ability to interact with quarks remained experimentally unconfirmed this book presents a search for higgs bosons produced in association with top quarks $t\bar{t}h$ in data recorded with the cms detector in 2016 it focuses on higgs boson decays into bottom quarks $h\rightarrow b\bar{b}$ and top quark pair decays involving at least one lepton in this analysis a multiclass classification approach using deep learning techniques was applied for the first time in light of the dominant background contribution from $t\bar{t}$ production the developed method proved to achieve superior sensitivity with respect to existing techniques in combination with searches in different decay channels the presented 2023-10-02 17:00:00 updated to the first observations of $t\bar{t}h$ production and $h\rightarrow b\bar{b}$

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decays $\frac{0.693}{t_{1/2}}$ $\frac{0.693}{31}$ $\frac{0.693}{80}$ $\frac{0.693}{0.3}$ $\frac{0.693}{7}$

Multijet Production in Charged Current Deep Inelastic Scattering with ZEUS at HERA 2008

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