

ATLAS Collaboration *Editor*

The Performance of the ATLAS Detector

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ATLAS Collaboration



The Performance Of The Atlas Detector:

The Performance of the ATLAS Detector ATLAS Collaboration, 2014-10-08 The ATLAS detector at the CERN Large Hadron Collider is an apparatus of unprecedented complexity designed to probe physics in proton proton collisions at centre of mass energies up to 14 TeV It was installed in its underground cavern at the LHC during the period 2004 to 2008 Testing of individual subsystems began immediately with calibration systems and cosmic rays and by 2008 full detector systems could be operated with the planned infrastructure readout and monitoring systems Several commissioning runs of the full detector were organized in 2008 and 2009 During these runs the detector was operated continuously for several months with its readout triggered by cosmic ray muons At the same time regular calibrations of individual detector systems were made In the course of these runs signals from tens of millions of cosmic ray events were recorded These commissioning runs continued until the first beam beam collisions in late 2009 This volume is a collection of seven performance papers based on data collected during this commissioning period Five papers deal with the response of individual detector systems One paper describes the performance of the simulation infrastructure used to model the detector's response to both cosmic rays and to the later beam beam collisions The final paper describes measurements drawing on the integrated performance of several detector systems It studies lepton identification the response to low energy electrons muon energy loss in the calorimeters missing ET effects and the combined performance for muons when both the muon spectrometer and the inner tracking detector are used These papers summarize the studies of the ATLAS detector performance and readiness prior to the start of colliding beam data They are reprinted from The European Physical Journal C where they were published between summer 2010 and spring 2011 *Expected Performance of the ATLAS Experiment - Detector, Trigger and Physics*, 2011 The Large Hadron Collider LHC at CERN promises a major step forward in the understanding of the fundamental nature of matter The ATLAS experiment is a general purpose detector for the LHC whose design was guided by the need to accommodate the wide spectrum of possible physics signatures The major remit of the ATLAS experiment is the exploration of the TeV mass scale where groundbreaking discoveries are expected In the focus are the investigation of the electroweak symmetry breaking and linked to this the search for the Higgs boson as well as the search for Physics beyond the Standard Model In this report a detailed examination of the expected performance of the ATLAS detector is provided with a major aim being to investigate the experimental sensitivity to a wide range of measurements and potential observations of new physical processes An earlier summary of the expected capabilities of ATLAS was compiled in 1999 1 A survey of physics capabilities of the CMS detector was published in 2 The design of the ATLAS detector has now been finalised and its construction and installation have been completed 3 An extensive test beam programme was undertaken Furthermore the simulation and reconstruction software code and frameworks have been completely rewritten Revisions incorporated reflect improved detector modelling as well as major technical changes to the software technology Greatly improved understanding of calibration and alignment techniques

and their practical impact on performance is now in place The studies reported here are based on full simulations of the ATLAS detector response A variety of event generators were employed The simulation and reconstruction of these large event samples thus provided an important operational test of the new ATLAS software system In addition the processing was distributed world wide over the ATLAS Grid facilities and hence provided an important test of the ATLAS computing system this is the origin of the expression CSC studies computing system commissioning which is occasionally referred to in these volumes The work reported does generally assume that the detector is fully operational and in this sense represents an idealised detector establishing the best performance of the ATLAS detector with LHC proton proton collisions is a challenging task for the future The results summarised here therefore represent the best estimate of ATLAS capabilities before real operational experience of the full detector with beam Unless otherwise stated simulations also do not include the effect of additional interactions in the same or other bunch crossings and the effect of neutron background is neglected Thus simulations correspond to the low luminosity performance of the ATLAS detector This report is broadly divided into two parts firstly the performance for identification of physics objects is examined in detail followed by a detailed assessment of the performance of the trigger system This part is subdivided into chapters surveying the capabilities for charged particle tracking each of electron photon muon and tau identification jet and missing transverse energy reconstruction b tagging algorithms and performance and finally the trigger system performance In each chapter of the report there is a further subdivision into shorter notes describing different aspects studied The second major subdivision of the report addresses physics measurement capabilities and new physics search sensitivities Individual chapters in this part discuss ATLAS physics capabilities in Standard Model QCD and electroweak processes in the top quark sector in b physics in searches for Higgs bosons supersymmetry searches and finally searches for other new particles predicted in more exotic models

Studies of the Performance of the ATLAS Detector Using Cosmic-Ray Muons ,2013 [ATLAS detector and physics performance](#)
ATLAS Collaboration,A. Airapetian,Vladimir Cindro,Andrej Filipčič,Gregor Kramberger,Igor Mandić,Marko Mikuž,Matevž Tadel,Dejan Žontar,1999 **ATLAS Detector and Physics Performance** ,1999 *ATLAS Detector and Physics Performance* ,1999 [Expected Performance of the ATLAS Experiment](#) ,2009 **The Search for Supersymmetry in Hadronic Final States Using Boosted Object Reconstruction** Giordon Stark,2020-03-13 This thesis represents one of the most comprehensive and in depth studies of the use of Lorentz boosted hadronic final state systems in the search for signals of Supersymmetry conducted to date at the Large Hadron Collider A thorough assessment is performed of the observables that provide enhanced sensitivity to new physics signals otherwise hidden under an enormous background of top quark pairs produced by Standard Model processes This is complemented by an ingenious analysis optimization procedure that allowed for extending the reach of this analysis by hundreds of GeV in mass of these hypothetical new particles Lastly the combination of both deep thoughtful physics analysis with the development of high speed electronics for identifying and

selecting these same objects is not only unique but also revolutionary The Global Feature Extraction system that the author played a critical role in bringing to fruition represents the first dedicated hardware device for selecting these Lorentz boosted hadronic systems in real time using state of the art processing chips and embedded systems

Electroweak Physics at the Large Hadron Collider with the ATLAS Detector Elodie Resseguie, 2020-11-03 This thesis discusses searches for electroweakly produced supersymmetric partners of the gauge and the Higgs bosons gauginos and higgsinos decaying to multiple leptons using pp collisions at $\sqrt{s} = 13$ TeV The thesis presents an in depth study of multiple searches as well as the first 13 TeV cross section measurement for the dominant background in these searches WZ production Two searches were performed using 36.1 fb of data the gaugino search which makes use of a novel kinematic variable and the higgsino search which produced the first higgsino limits at the LHC A search using 139 fb of data makes use of a new technique developed in this thesis to cross check an excess of data above the background expectation in a search using a Recursive Jigsaw Reconstruction technique None of the searches showed a significant excess of data and limits were expanded with respect to previous results These searches will benefit from the addition of luminosity during HL LHC however the current detector will not be able to withstand the increase in radiation Electronics for the detector upgrade are tested and irradiated to ensure their performance

Searching for Dark Matter with the ATLAS Detector Steven Schramm, 2016-11-23 This thesis describes the search for Dark Matter at the LHC in the mono jet plus missing transverse momentum final state using the full dataset recorded in 2012 by the ATLAS Experiment It is the first time that the number of jets is not explicitly restricted to one or two thus increasing the sensitivity to new signals Instead a balance between the most energetic jet and the missing transverse momentum is required thus selecting mono jet like final states Collider searches for Dark Matter have typically used signal models employing effective field theories EFTs even when comparing to results from direct and indirect detection experiments where the difference in energy scale renders many such comparisons invalid The thesis features the first robust and comprehensive treatment of the validity of EFTs in collider searches and provides a means by which the different classifications of Dark Matter experiments can be compared on a sound and fair basis

ATLAS DETECTOR AND PHYSICS PERFORMANCE TECHNICAL DESIGN REPORT., 1999 Detectors in Particle Physics

Georg Viehhauser, Tony Weidberg, 2024-03-06 This textbook provides an accessible yet comprehensive introduction to detectors in particle physics It emphasises the core physics principles enabling a deeper understanding of the subject for further and more advanced studies In addition to the discussion of the underlying detector physics another aspiration of this book is to introduce the reader to practically important aspects of particle detectors like electronics alignment calibration and simulation of particle detectors Case studies of the various applications of detectors in particle physics are provided The primary audience is graduate students in particle or nuclear physics in addition to advanced undergraduate students in physics Key Features Provides an accessible yet thorough discussion of the basic physics principles needed to understand

how particle detectors work Presents applications of the basic physics concepts to examples of modern detectors Discusses practically important aspects like electronics alignment calibration and simulation of particle detectors Contains exercises for each chapter to further understanding For more information and errata please see the authors companion webpage <https://ppdetectors.web.ox.ac.uk> This webpage also allows instructors to request a copy of the solutions manual This eBook was published Open Access with funding support from the Sponsoring Consortium for Open Access Publishing in Particle Physics SCOAP³

Expected Performance of the ATLAS Experiment, Detector, Trigger and Physics European Organization for Nuclear Research, 2009 *Astroparticle, Particle and Space Physics, Detectors and Medical Physics Applications* Claude Leroy, 2010 The exploration of the subnuclear world is done through increasingly complex experiments covering a wide range of energy and performed in a large variety of environments from particle accelerators underground detectors to satellites and space laboratory The achievement of these research programs calls for novel techniques new materials and instrumentation to be used in detectors often of large scale Therefore fundamental physics is at the forefront of technological advance and also leads to many applications Among these medical applications have a particular importance due to health and social benefits they bring to the public *Astroparticle, Particle And Space Physics, Detectors And Medical Physics Applications - Proceedings Of The 11th Conference On Icatpp-11* Pier-giorgio Rancoita, Claude Leroy, Michele Barone, Andrea Gaddi, Larry Price, Randal C Ruchti, 2010-04-30 The exploration of the subnuclear world is done through increasingly complex experiments covering a wide range of energy and performed in a large variety of environments from particle accelerators underground detectors to satellites and space laboratory The achievement of these research programs calls for novel techniques new materials and instrumentation to be used in detectors often of large scale Therefore fundamental physics is at the forefront of technological advance and also leads to many applications Among these medical applications have a particular importance due to health and social benefits they bring to the public **Astroparticle, Particle and Space Physics, Detectors and Medical Physics Applications**, 2008 The exploration of the subnuclear world is done through increasingly complex experiments covering a wide range of energies and in a large variety of environments OCo from particle accelerators and underground detectors to satellites and space laboratories For these research programs to succeed novel techniques new materials and new instrumentation need to be used in detectors often on a large scale Hence particle physics is at the forefront of technological advancement and leads to numerous applications Among these medical applications have a particular importance due to the health and social benefits they bring This volume reviews the advances made in all technological aspects of current experiments in the field **The Road to Discovery** John Alison, 2014-09-11 The research presented here includes important contributions on the commissioning of the ATLAS experiment and the discovery of the Higgs boson The thesis describes essential work on the alignment of the inner tracker during the commissioning of the experiment and development of the electron identification algorithm The subsequent analysis focuses on the search for the

Higgs boson in the WW channel including the development of a method to model the critical W jet background In addition the thesis provides excellent introductions suitable for non specialists to Higgs physics to the LHC and to the ATLAS experiment

Electroweak Gauginos with Highly Boosted Hadronically Decaying Bosons at the LHC Yuta Okazaki,2023-01-01 Supersymmetry SUSY introduces superpartners of the Standard Model SM particles If their masses are typically $O(100 \text{ GeV} - O(\text{TeV}))$ a lightest neutralino can be a candidate for the dark matter and the problem is solved by canceling the correction of the Higgs boson mass Further SUSY can explain the experimental result of the muon magnetic moment $g-2$ This book presents a search for electroweakinos the superpartners of the SM electroweak bosons such as charginos and neutralinos using data at the LHC collected by the ATLAS detector Pair produced electroweakinos decay into the light ones and SM bosons W Z h and with the large mass difference between the heavy and light electroweakinos the SM bosons have high momenta In a fully hadronic final state quarks decayed from the bosons are collimated and can consequently be reconstructed as a single large radius jet This search has three advantages The first is a statistical benefit by large branching ratios of the SM bosons The second is to use characteristic signatures the mass and substructure of jets to identify as the SM bosons The last is a small dependency on the signal model by targeting all the SM bosons Thanks to them the sensitivity is significantly improved compared to the previous analyses Exclusion limits at the 95% confidence level on the heavy electroweakino mass parameter are set as a function of the light electroweakino mass parameter They are set on wino or higgsino production models with various assumptions such as the branching ratio of their decaying and the type of lightest SUSY particle These limits are the most stringent limits Besides this book provides the most stringent constraints on SUSY scenarios motivated by the dark matter the muon $g-2$ anomaly and the naturalness

Calorimetry In High Energy Physics: Proceedings Of The 8th International Conference Gaspar Barreira,Agostinho Gomes,Amelia Maio,Bernardo Tome,Maria J Varanda,2000-05-31 The International Conference on Calorimetry in High Energy Physics has become the major forum for presenting the latest developments of calorimetry techniques The eighth conference was attended by about 130 physicists from 20 countries and covered all aspects of calorimetric particle detection and measurements with emphasis on high energy physics experiments

ATLAS Measurements of the Higgs Boson Coupling to the Top Quark in the Higgs to Diphoton Decay Channel Jennet Elizabeth Dickinson,2021-11-16 During Run 2 of the Large Hadron Collider the ATLAS experiment recorded proton proton collision events at 13 TeV the highest energy ever achieved in a collider Analysis of this dataset has provided new opportunities for precision measurements of the Higgs boson including its interaction with the top quark The Higgs top coupling can be directly probed through the production of a Higgs boson in association with a top antitop quark pair $t\bar{t}H$ The Higgs to diphoton decay channel is among the most sensitive for $t\bar{t}H$ measurements due to the excellent diphoton mass resolution of the ATLAS detector and the clean signature of this decay Event selection criteria were developed using novel Machine Learning techniques to target $t\bar{t}H$ events yielding a precise measurement of the $t\bar{t}H$ cross

section in the diphoton channel and a 6.3 sigma observation of the $t\bar{t}H$ process in combination with other decay channels as well as stringent limits on CP violation in the Higgs top coupling

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