

ATLAS Collaboration *Editor*

The Performance of the ATLAS Detector

The Performance Of The Atlas Detector

Patrick Vollmar



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 *Astroparticle, Particle, Space Physics And Detectors For Physics Applications - Proceedings Of The 14th Icatpp Conference* Simone Giani,Claude Leroy,Larry Price,Pier-giorgio Rancoita,Randal C Ruchti,2014-06-02 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 ranging from particle accelerators underground detectors to satellites and the 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 are the progresses from space experiments whose results allow the understanding of the cosmic environment of the origin and evolution of the universe after the Big Bang

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 ATLAS Detector and Physics Performance, 1999 *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

The Performance Of The Atlas Detector Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**The Performance Of The Atlas Detector**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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