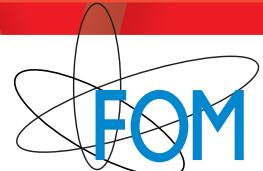


Appendix
Publications
2005-2010

FOM Institute
for Subatomic Physics

Nikhef



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APPENDIX: Publications 2005-2010

FOM Institute
for Subatomic Physics
Nikhef



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Introduction

This document is an appendix to the Nikhef Self-evaluation report. All scientific output and other relevant items related to Nikhef's research programme are reported in this document.

In Chapter One, a list is given of hardware and software products made by Nikhef physicists, computer scientists and technicians, in use in other experiments (without Nikhef participation), or on the market. Typical applications include medical and analytical imaging, automated measuring, monitoring and control systems, grid computing software and advanced symbolic manipulation software.

Chapter Two lists all theses written and defended by Nikhef PhD students between 2005 and 2010. PhD students at Nikhef are enrolled in the accredited Dutch Research School for Subatomic Physics and follow its educational programme. On average, more than 10 theses are produced per year. The median duration between start of contract and thesis defence is slightly over five years, compared to a nominal contract duration of four years. Reasons include the delay often imposed by university formalities (three to six months typically), maternity leave, sick leave, activities for the works council, and the fact that during this review period the LHC machine had a problematic start-up phase, leading to delays in data-taking of the experiments and thus in gathering data for PhD students to analyse. Unfortunately, these kinds of delays are inevitably associated with big projects. Nevertheless, reducing the time needed to graduate is a point of action.

Nikhef's scientific papers published in this period are collected in Chapter Three. The ordering of the sections in this chapter is identical to the ordering of the scientific programmes in the self-evaluation report. Typically,

experiments in a building phase produce relatively few papers per year, on design studies, hardware, electronics, and beam tests. Running experiments, however, produce a large number of papers per year. Apart from papers in scientific journals, specific contributions of Nikhef physicists are documented in internal notes, which are also peer reviewed. These are traditionally not listed in overviews, but are gaining importance.

The international community of high-energy physics have been pushing the introduction of Open Access journals, in line with the CERN Convention that "the results of its experimental and theoretical work shall be published or otherwise made generally available". This resulted in the start of SCOAP3(Sponsoring Consortium for Open Access Publishing in Particle Physics: an international consortium of high-energy physics organisations and leading national and international libraries or consortia of libraries with the specific aim to facilitate Open Access publishing in high-energy physics.

Nikhef and the organisation of the Dutch University Libraries (UKB) joined officially at the start in 2008. The transition to Open Access is facilitated by the fact that the large majority of HEP articles are published in just six peer-reviewed journals. The papers concerning the technical description of each LHC experiment have already been published in a new Open Access journal of Instrumentation (JINST). Neelie Kroes, Vice President of the European Commission and Commissioner for the Digital Agenda, has addressed a meeting of the stakeholders of the global SCOAP³ initiative held at CERN on 6 April 2011. In her address she wished SCOAP³ a "...success [that] will be more than just a proof of concept. It will show us a passable way into the future of scientific publishing that others can follow". Commissioner Kroes continued mentioning that "Access to scientific results for free, for all, for ever is a compelling vision indeed".

The screenshot shows the ScienceWATCH website interface. At the top, there is a navigation bar with tabs for 'Databases', 'Analysis', and 'Data & Rankings'. Below the navigation bar, a banner reads 'Analyses : Featured Analysis : The Hottest Research of 2006-07'. A sub-banner below it says 'FEATURED ANALYSIS: MARJAPR, 2008'. The main content area is titled 'The Hottest Research of 2006-07' and is attributed to Christopher King. It includes a brief description of the analysis and a table titled 'Scientists with Multiple Hot Papers'. The table lists ten scientists along with their institutions and the number of hot papers they have published. The table is sourced from the Thomson Scientific Hot Papers Database.

Name	Institution	Field	No. of Hot Papers
Mihail Kopylov	Kent State University	Physics	12
Basant K. Nandi	Indian Inst. Technol., Bombay	Physics	12
Thomas Peitzmann	Utrecht University	Physics	12
Suzan Akuts [see also see also see also]	Osaka University	Immunology	11
John A. Nusser	Pennsylvania State University	Space Science	11
Jonathan Brinkmann	Apache Point Observatory	Space Science	10
Carm M. Croce	Ohio State University	Cancer Genetics	10
Todd R. Golub	HMM, Broad Institute Cancer	Genetics	10
Jeffrey A. Lieberman	Columbia University	Psychiatry	10
John M. Maron	Harvard University	Cardiology	10

Source: Thomson Scientific Hot Papers Database

Figure 1. Nikhef-Utrecht Professor of Subatomic Physics Thomas Peitzmann is one of a select group of 'Hottest Researchers' in 2007 according to ScienceWatch, as a result of his work for both STAR and PHENIX experiments at RHIC, Brookhaven.

1 Products

Distinctive Products (hard- and software in use at other experiments or in the market)

- Medipix systems: Nikhef is actively involved in the Medipix2 collaboration at CERN, of which the goal is to transfer the technology, developed for semiconductor pixel detectors within high-energy physics, towards other applications such as medical and analytical X-ray imaging. The Nikhef group is involved mainly in the development of read-out interfaces for the Medipix2 chip as well as in chip carrier boards design. Combination of these two topics is the RelaXd project: development of the large area fast detector system using the Medipix2 chip. A general Nikhef-developed readout system for RelaXd and TimePix (further development of the Medipix chip) is now widely used.
- RASNIK equipment: alignment system to measure and monitor exact positions of detectors, used in several (LHC) experiments and now also in development for other applications; transferred for commercial applications to the firm Sensiex.
- Grid software:
 - 'The Virtual Laboratory for e-Science Proof-of-Concept Environment (release 1)'; the VL-e Project consortium and partners 2005–present, software engineering, integration and assembly by Nikhef. Current release 1, deployed on the Dutch national BiG Grid infrastructure.
 - 'Estimated Response Time Info Providers'; measurement, estimator development and implementation by Nikhef; 2007–present, part of gLite grid middleware distribution.
 - 'LCAS and LCMAPS, a site authorization, access control and enforcementservice'; the EU Datagrid consortium and partners, the EGEE consortium and partners 2001–present. Part of gLite grid middleware distribution, also used in other grid middleware suites.
 - 'BDII, the Berkeley Database Information Index'; a hierarchical persistent-caching resource information service for the grid. 2002–present, included in the gLite middleware distribution and used in other grid middleware suites. Conceived and developed at Nikhef as part of the EU Datagrid project.

Personalities

Medipix systems	dr. Jan Visser
RASNIK equipment	dr. ir. Harry van der Graaf, ing. Henk Groenstege
Grid software	dr. David Groep, drs. Jan Just Keijser, dr. Jeff Templon
FORM software	dr. Jbs Vermaseren
CO ₂ cooling	ing. Bart Verlaat, dr. Auke-Pieter Colijn
CAN hardware & software	ir. Henk Boterenbrood (software), ing. Jaap Kuijt (hardware), ing. Henk Groenstege (hardware)
Hall effect sensors	ing. Henk Groenstege
Mini-HV systems	ing. Henk Groenstege, ing. Jaap Kuijt
Rooft software	dr. Wouter Verkerke

- ‘gLite’; a secure grid mechanism for in-process Unix credential mapping; the EGEE consortium and partners 2005-present; included in gLite and OSG middleware distributions.
- ‘MoniFarm – graphing farm occupancy for a PBS/Torque LRMS’; historical cluster load occupancy and graphing application; deployed throughout the South East European Grid (SEEGRID) and selected EGEE and LCG resource centres.
- SCAS (Site Central Authorization Service); 2008–present, part of the gLite middleware distribution.
- Execution Environment Service; part of the EMI middleware distribution, scheduled release date 27 april 2011.
- jGridstart; 2008–present, tool to automate requests and renewals for grid credentials, available to all Dutch grid users.
- Plugin for direct submission to CREAM CE; distributed as part of the GANGA analysis framework.

- FORM software: a computer program for manipulating very large formulae as developed by the Theory Group at Nikhef. It is devoted to the manipulation of such formulae where other systems may give up, pattern matching in formula manipulation, and computations in non-commutative algebras and high-energy physics. The program is used at many sites around the world. Other theory program developments are mentioned in the Self-evaluation Report.

- CO₂ cooling: a development of a mechanically pumped two-phase CO₂ cooling loop for the Si-tracker for AMS (an ISS attached international payload searching for antimatter, dark matter and lost matter) and for LHCb (and eventually ATLAS).

- CAN hardware & software: the Embedded Local Monitor Board (ELMB) is a general-purpose plug-on I/O module for the monitoring and control of subdetector front-end equipment. The ELMB is based on the industry standard CANbus and CANopen. The ELMB project is a collaboration between CERN, Nikhef and PNPI (St. Petersburg, Russia). The boards are used in all LHC experiments.

- Hall effect sensors: the sensors have been developed by CERN and Nikhef and are based on 1D hall probes with the associated electronics. The sensors are calibrated for a range of magnetic fields up to 4.5 T. They are used in ATLAS, LHCb and CMS.

- Mini-HV: development of a new range of mini-HV power supplies (1000 V, nA resolution), especially for use in laboratories and small scale experiments.

- RooFit software: a toolkit for modeling the expected distribution of events in a physics analysis. Models can be used to perform likelihood fits, produce plots, and generate toy Monte Carlo samples for various studies. The RooFit tools are integrated with the object-oriented and interactive ROOT graphical environment.

2 Theses

2005

Alexander Adriaan Henneman

Scale dependence of correlations on the light-front

Vrije Universiteit Amsterdam, 2 February 2005

Promotor: P.J.G. Mulders

Armen Laziev

Quasi-real photo-production and semi-leptonic decay of D^- mesons

Vrije Universiteit Amsterdam, 11 March 2005

Promotor: J.F.J. van den Brand

Copromotor: W.H.A. Hesselink

Freya Blekman

Top quark pair production in proton anti-proton collisions

Universiteit van Amsterdam, 1 April 2005

Promotores: M.W.J.M. Demarteau, F.L. Linde

Copromotor: M. Vreeswijk

Sander Klous

LHCb: Vertex detector and read out chip, computing challenge and

$B_s \rightarrow J/\psi \phi$ analysis

Vrije Universiteit Amsterdam, 1 May 2005

Promotor: J.F.J. van den Brand

Copromotores: E. Jans, H.G. Raven

Alessandro Fornaini

X-ray imaging and readout of a TPC with the Medipix CMOS ASIC

Universiteit Twente, 2 June 2005

Promotor: B. van Eijk

Copromotor: JL. Visschers

Daniel Abraham Wijngaarden

Angular correlations in beauty production at the Tevatron at $\sqrt{s}=1.96$ TeV

Radboud Universiteit Nijmegen, 22 June 2005

Promotor: S.J. de Jong

Copromotor: F. Filthaut

Maria Constance Bouwhuis

Detection of neutrinos from gamma-ray bursts

Universiteit van Amsterdam, 7 July 2005

Promotor: K.J.F. Gaemers

Copromotor: M. de Jong

Hernan Pablo Wahlberg

Bottom Production at $\sqrt{s}=41.6$ GeV

Universiteit Utrecht, 7 September 2005

Promotor: P.M. Kooijman

Copromotor: Th. S. Bauer

Jeroen Ashwin Niels van Tilburg

Track simulation and reconstruction in LHCb

Vrije Universiteit Amsterdam, 11 October 2005

Promotor: M.H.M. Merk

Vanessa Mexner

Determination of the gluon polarization in the nucleon

Universiteit van Amsterdam, 20 December 2005

Promotor: G. van der Steenhoven

Copromotor: W.H.A. Hesselink

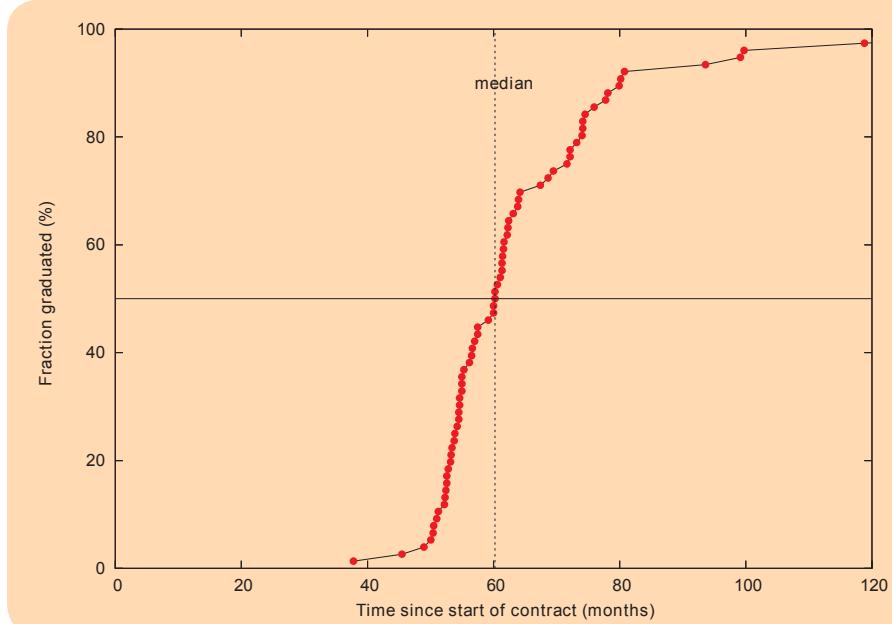


Figure 2.1. Duration (graduation date – start of contract date) of the PhD project for all Nikhef PhD students who graduated in the 2005–2010 review period. The median of this distribution is 60.2 months. The overall success rate is about 93%.

2006

Fetze Pijlman

Single asymmetries and gauge invariance in hard scattering processes

Vrije Universiteit Amsterdam, 10 January 2006

Promotor: P.J.G. Mulders

Harmen Jakob Warringa

Thermodynamics of QCD-inspired theories

Vrije Universiteit Amsterdam, 28 February 2006

Promotor: P.J.G. Mulders

Copromotor: D. Boer

Oleksiy Sokolov

Prototyping of Silicon Strip Detectors for the Inner Tracker of the ALICE

Experiment

Universiteit Utrecht, 24 April 2006

Promotor: R. Kamermans

Copromotor: G.J.L. Nooren

Martinus Gerardus van Beuzekom

Identifying fast hadrons with silicon detectors

Rijksuniversiteit Groningen, 19 May 2006

Promotor: G. van der Steenhoven

Copromotor: J.J.M. Steijger

Marcello Barisonzi

Mass measurements of the top quark in electroweak production channels at ATLAS

Universiteit Twente, 21 May 2006

Promotor: B. van Eijk

Copromotor: J.C. Vermeulen

Antonello Sbrizzi

Beauty and a search for pentaquarks at HERA-B

Vrije Universiteit Amsterdam, 16 June 2006

Promotor: J.F.J. van den Brand

Copromotor: Th. S. Bauer

Bram Antonius Philomena van Rens

Detection of magnetic monopoles below the Cherenkov limit

Universiteit van Amsterdam, 7 July 2006

Promotor: P.M. Kooijman

Copromotor: M. de Jong

Leonard Bart Anton Hommels

The tracker in the trigger of LHCb

Universiteit van Amsterdam, 18 October 2006

Promotor: M.H.M. Merk

Copromotor: N. Tuning

Thijs Gerrit Cornelissen

Track fitting in the ATLAS experiment

Universiteit van Amsterdam, 12 December 2006

Promotor: F.L. Linde

Copromotores: S.C.M. Bentvelsen, P.M. Kluit

2007

Max Arjen Baak

Measurement of CKM-angle γ with charmed B^0 meson decays

Vrije Universiteit Amsterdam, 5 February 2007

Promotor: J.F.J. van den Brand

Copromotor: H.G. Raven

Niels van Eldik

The ATLAS muon spectrometer: calibration and pattern recognition

Universiteit van Amsterdam, 22 February 2007

Promotor: F.L. Linde

Copromotor: S.C.M. Bentvelsen

Michiel Demey

The polarization of Λ^0 hyperons in quasi-real photoproduction

Universiteit van Amsterdam, 16 March 2007

Promotor: G. van der Steenhoven

Copromotor: J.J.M. Steijger

Achilleas Lazopoulos

Developments in quantum chromodynamics and quasi Monte Carlo

Radboud Universiteit Nijmegen, 26 March 2007

Promotor: R.H.P. Kleiss,

Copromotor: C.G. Papadopoulos

Andreas Johannes Reischl

Quasi-real photo-production of hyperons and their impact on Λ^0 polarization measurements

Universiteit van Amsterdam, 2 April 2007

Promotor: G. van der Steenhoven

Copromotor: J.J.M. Steijger

Garmt de Vries-Uiterweerd

Signal and background in the underwater neutrino telescope ANTARES

Universiteit Utrecht, 8 May 2007

Promotor: P.M. Kooijman

Tim Pieter Tjipko Dijkstra

Supersymmetric Standard Model spectra from RCFT orientifolds

Radboud Universiteit Nijmegen, 11 June 2007

Promotor: A.N.J.J. Schellekens

Johannes Wilhelmus Edmund Uiterwijk

Detection and reconstruction of short-lived particles produced by neutrino interactions in emulsion

Universiteit Leiden, 12 June 2007

Promotor: M. de Jong

Copromotor: J. Panman

Paul Bastiaan van der Nat

Transversity in two-hadron fragmentation

Vrije Universiteit Amsterdam, 5 September 2007

Promotor: G. van der Steenhoven

Copromotor: L. Lapikás

Hylke Bernd Jan Koers

The Astrophysical Herald: Neutrinos as probes for particle physics and astronomy

Universiteit van Amsterdam, 21 September 2007

Promotores: K.J.F. Gaemers, R.A.M. Wijers

Cedran Jonathan Bomhof
Azimuthal spin asymmetries in hadronic processes
Vrije Universiteit Amsterdam, 1 October 2007
Promotor: P.J.G. Mulders

Jacopo Nardulli
Reconstruction of two-body B decays in LHCb
Vrije Universiteit Amsterdam, 4 October 2007
Promotores: J.F.J. van den Brand, M. Merk

Johan Hendrik Rutger Schrader
Wireline equalization using pulse-width modulation
Universiteit Twente, 11 October 2007
Promotor: B. Nauta
Copromotor: E.A.M. Klumperink

Yuting Bai
Anisotropic flow measurements in STAR at the relativistic heavy ion collider
Universiteit Utrecht, 29 October 2007
Promotor: Th. Peitzmann
Copromotor: R.J.M. Snellings

Oleksandr Grebenyuk
Neutral meson production in d+Au and p+p collisions at $\sqrt{s_{NN}} = 200$ GeV in STAR
Universiteit Utrecht, 29 November 2007
Promotor: Th. Peitzmann
Copromotor: M.A.J. Botje

Andrea Fuster
Kundt spacetimes in general relativity and supergravity
Vrije Universiteit Amsterdam, 6 December 2007
Promotor: J.W. van Holten

2008
Ytsen Ronald de Boer
Measurement of single W boson production in ep scattering
Universiteit Twente, 10 January 2008
Promotor: B. van Eijk
Copromotor: C. Diaconu

Patrick Motylinski
Single top production aspects of perturbative QCD
Universiteit van Amsterdam, 25 January 2008
Promotor: E.L.M.P. Laenen

Carmen Miruna Anăstăsoaei
A search for $W^{\pm}H \rightarrow v_b b$ production at the Tevatron
Radboud Universiteit Nijmegen, 6 February 2008
Promotor: S.J. de Jong
Copromotor: F. Filthaut

Ronald Bruijn
The ANTARES Neutrino Telescope: Performance studies and analysis of first data
Universiteit van Amsterdam, 19 March 2008
Promotores: P.M. Kooijman, M. de Jong

Jana Montenegro Ferreira
Measurement of the W mass using semi-leptonic events at LEP
Radboud Universiteit Nijmegen, 20 March 2008
Promotor: N. de Groot
Copromotor: J. Timmermans

Tiberiu Gabriel Grigorescu
Measurement of charm production in deep inelastic scattering at HERA II
Universiteit van Amsterdam, 28 March 2008
Promotores: E. Koffeman, P. Kooijman

Martinus Johannes Russcher
Direct photon measurement in proton-proton and deuteron-gold collisions
Universiteit Utrecht, 15 April 2008
Promotor: T. Peitzmann
Copromotor: A. Mischke

Emmanuele Lorenzo Simili
Elliptic flow measurements at ALICE
Universiteit Utrecht, 16 June 2008
Promotor: R. Kamermans
Copromotor: P.G. Kuijer

Cristina Florina Galea
Measurement of $\sigma(p\bar{p} \rightarrow Z) \cdot Br(Z \rightarrow \tau^+\tau^-)$ and search for Higgs bosons decaying to $\tau^+\tau^-$ at $\sqrt{s}=1.96$ TeV
Radboud Universiteit Nijmegen, 25 June 2008
Promotor: S.J. de Jong

Mark Okker de Kok
Broken symmetries in field theory
Universiteit Leiden, 26 June 2008
Promotores: P.J. van Baal, J.W. van Holten
Copromotor: F. Bruckmann

Tamás Novák
Bose-Einstein Correlations in e+e- Annihilation
Radboud Universiteit Nijmegen, 4 September 2008
Promotores: E.W. Kittel, T. Csörgő
Copromotor: W.J. Metzger

Qin Wang
Inter-string Bose-Einstein Correlations in Hadronic Z Decays using the L3 Detector at LEP
Radboud Universiteit Nijmegen, 4 September 2008
Promotor: E.W. Kittel
Copromotor: W.J. Metzger

Fedeica Benedosso
Two particle azimuthal correlation in d+Au and p+p collision at $\sqrt{s_{NN}}=200$ GeV in STAR
Universiteit Utrecht, 8 September 2008
Promotor: T. Peitzmann
Copromotor: A. Mischke

Jeroen Dreschler
Transverse target-spin asymmetry in exclusive electroproduction of ρ^0 mesons
Vrije Universiteit Amsterdam, 7 October 2008
Promotor: G. van der Steenhoven
Copromotor: H.P. Blok

Peter Hristoforov Vankov
Study of the B-meson lifetime and the performance of the outer tracker at LHCb
Vrije Universiteit Amsterdam, 5 November 2008
Promotor: J.F.J. van den Brand
Copromotor: A. Pellegrino, H.G. Raven

Miran Djordjevic
The Integrated Pixel Tracker: readout and tests of the MIMOSA V pixel sensor
Radboud Universiteit Nijmegen, 26 November 2008
Promotores: S.J. de Jong, M. Pohl

2009
Maximilien Alexandre Chefdeville
Development of Micromegas-like gaseous detectors using a pixel readout chip as collecting anode
Universiteit van Amsterdam, 15 January 2009
Promotor: J. Schmitz
Copromotor: P. Colas

Jeroen Guido Hegeman
Measurement of the top quark pair production cross section in pp collisions at $\sqrt{s} = 1.96$ TeV : Hadronic top decay with the DØ detector
Universiteit Twente, 16 January 2009
Promotor: B. van Eijk

Marcel van Kessel
The Path-Integral Approach to Spontaneous Symmetry Breaking
Radboud Universiteit Nijmegen, 2 February 2009
Promotores: R. Kleiss, E.N. Argyres

Pieter Jhannes van den Berg
Search for heavy resonances in the dimuon channel with the DØ detector
Universiteit van Amsterdam, 24 February 2009
Promotor: S.C.M. Bentvelsen
Copromotor: P.J. de Jong

Claudine Marie Marguerite Colnard
Ultra-high energy neutrino simulations
Universiteit van Amsterdam, 16 April 2009
Promotor: G. van der Steenhoven
Copromotor: E. de Wolf

Hella Leonie Snoek
Suppressed charmed B decays
Vrije Universiteit Amsterdam, 2 June 2009
Promotor: J.F.J. van den Brand
Copromotor: H.G. Raven

Pieter Willem Huib Houben
A measurement of the mass of the top quark using the ideogram technique
Universiteit van Amsterdam, 2 June 2009
Promotores: M.W.J.M. Demarteau, F.L. Linde
Copromotor: M. Vreeswijk

Caroline Alexandra Magrath
The heart of ATLAS: Commissioning and performance of the ATLAS silicon tracker
Radboud Universiteit Nijmegen, 12 June 2009
Promotores: E.N. Koffeman, N. de Groot

Gustavo Ordóñez Sanz
Muon Identification in the ATLAS Calorimeters
Radboud Universiteit Nijmegen, 12 June 2009
Promotor: N. de Groot
Copromotor: P. Kluit

Erik Aras Papadelis
Characterisation and commissioning of the LHCb VELO detector
Vrije Universiteit Amsterdam, 17 June 2009
Promotor: M.H.M. Merk
Copromotor: E. Jans

Erik Wessels
Signatures of gluon saturation in high energy scattering
Vrije Universiteit Amsterdam, 17 June 2009
Promotor: P.J.G. Mulders
Copromotor: D. Boer

Jan-Willem Wagenaar
Pion-Nucleon Scattering in Kadyshevsky Formalism and Higher Spin Field Quantization
Radboud Universiteit Nijmegen, 10 July 2009
Promotor: R. Kleiss
Copromotor: T.A. Rijken

Maaike Limper
Track and vertex reconstruction in the ATLAS inner detector
Universiteit van Amsterdam, 12 October 2009
Promotor: S.C.M. Bentvelsen
Copromotor: A.P. Colijn

Jöchem Snoverink
The ATLAS muon spectrometer: commissioning and tracking
Universiteit Twente, 16 October 2009
Promotores: B. van Eijk, F.L. Linde
Copromotor: P.M. Kluit

David San Segundo Bello
Spectroscopic quantum imaging using pixel-level adcs in semiconductor-based hybrid pixel detectors
Universiteit Twente, 10 September 2009
Promotor: B. Nauta
Copromotor: J.L. Visschers

Gerben Cornelis Stavenga
 Soft radiation in quantum chromodynamics
 Universiteit Utrecht, 14 September 2009
 Promotor: E.M.L.P. Laenen

Cristian George Ivan
 Open charm analysis with the ALICE detector in pp collisions at LHC
 Universiteit Utrecht, 20 November 2009
 Promotor: R. Kamermans
 Copromotores: P.G. Kuijer, M. van Leeuwen

Erik Eise van der Kraaij
 First top quark physics with ATLAS – a prospect
 Universiteit van Amsterdam, 4 December 2009
 Promotor: S.C.M. Bentvelsen
 Copromotor: P.J. de Jong

2010

Edwin Bos
 Reconstruction of charged particles in the LHCb experiment
 Vrije Universiteit Amsterdam, 10 February 2010
 Promotor: M.H.M. Merk
 Copromotor: H.G. Raven

Gabriel Ybeles Smit
 Asymmetries in the decay of beauty
 Vrije Universiteit Amsterdam, 20 February 2010
 Promotores: M.H.M. Merk, J.F.J. van den Brand
 Copromotor: H.J. Bulten

Eduard Ebron Simioni
 New physics from rare beauty
 Vrije Universiteit Amsterdam, 1 March 2010
 Promotor: M.H.M. Merk
 Copromotores: A. Pellegrino, W.D. Hulsbergen

Zdenko van Kesteren
 Identification of muons in ATLAS
 Universiteit van Amsterdam, 12 March 2010
 Promotor: S. Bentvelsen
 Copromotor: P.M. Kluit

Lucian-Stefan Ancu
 A search for $ZH \rightarrow \mu\mu b\bar{b}$ production at the Tevatron
 Radboud Universiteit Nijmegen, 20 April 2010
 Promotor: S.J. de Jong
 Copromotor: F. Filthaut

Jhrn Kerst Boom sma
 Effects of instanton interactions on the phases of quark matter
 Vrije Universiteit Amsterdam, 17 June 2010
 Promotor: P.J.G. Mulders
 Copromotor: D. Boer

Martijn Gosselink
 Radiating top quarks
 Universiteit van Amsterdam, 14 October 2010
 Promotor: E.N. Koffeman
 Copromotor: A.P. Colijn

Tristan Arnoldus du Pree
 Search for a strange phase in beautiful oscillations
 Vrije Universiteit Amsterdam, 22 October 2010
 Promotor: M.H.M. Merk
 Copromotor: H.G. Raven

	2005	2006	2007	2008	2009	2010	Total
ATLAS	2	2	1	2	8	□	18
LHCb	□	□	2	1	2	4	15
ALICE		1	2	□	1		7
Neutrino Telescopes	1	1	1	1	1		5
Gravitational Waves							
Cosmic Rays							
Theoretical Physics	1	2	5	2	4	1	15
Detector R&D	1		1	1	2		5
Grid Computing							
ZEUS				1			1
HERMES	2		□				5
Miscellaneous			1	5			6
Total	10	9	16	16	18	8	77

Table 2.1.
 Number of PhD theses
 produced per programme
 and per year.

First proton–proton collisions at the LHC as observed with the ALICE detector: measurement of the charged-particle pseudorapidity density at $\sqrt{s} = 900$ GeV

ALICE collaboration

Figure 1 consists of two plots comparing the ratio of p-p to p-NSD cross sections as a function of center-of-mass energy \sqrt{s} .

The left plot is for $\sqrt{s} = 900 \text{ GeV}$ and includes data from ISR (pp) INEL (black circles), UA1 (pp) NSD (black triangles), UA5 (pp) NSD (open squares), ALICE (pp) INEL (open circles), and ALICE (pp) NSD (black squares).

The right plot is for $\sqrt{s} = 14 \text{ TeV}$ and includes data from LHC (pp) INEL (black triangles), UA1 (pp) NSD (black circles), UA5 (pp) NSD (open circles), CDF (pp) NSD (black squares), ALICE (pp) INEL (open squares), and ALICE (pp) NSD (black circles).

In both plots, the ratios generally decrease as the center-of-mass energy increases, with the ALICE (pp) NSD data points being the highest and the ISR (pp) INEL data points being the lowest.

Figure 3.1. The first paper ever with LHC-physics results. In just 5 days after taking the first few hundred events at 0.45 TeV on 23 November 2009, the ALICE collaboration analysed these data and published the paper, confirming earlier results from the CERN SppS. collider.

3 Publications

	2005	2006	2007	2008	2009	2010	Total
ATLAS	5	0	8	66	51	76	296
LHCb	57	71	70	66	54	42	363
ALICE	6	5	26	16	28	0	174
Neutrino Telescopes	0	4	4	4	5	8	28
Gravitational Waves			6	14	4	19	43
Cosmic Rays			0	4	4	10	21
Theoretical Physics	19	25	26	28	40	67	205
Detector R&D	4	9	8	0	10	5	39
Grid Computing	4	0	2	4	2	2	17
ZEUS	10	2	20	7	10	11	66
HERMES	6	6	6	5	4	9	36
Miscellaneous	0	41	22	15	25	8	144
Total	207	226	237	232	240	290	1432

Table 3.1.
Number of publications
(incl. conference proceedings)
produced per programme and
per year.

3.1 Physics at the TeV scale: ATLAS

ATLAS

2005

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Nucl. Instr. Meth. A546 (2005) 481-497

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Hessey, N.P.; Jbng, P. de; Muijs, A.J.M.; Peeters, S.J.M.
Beam tests of ATLAS SCT silicon strip detector modules
Nucl. Instr. Meth. A538 (2005) 84-407

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Top studies for the Atlas detector commissioning
ALT-PHYS-PUB-2005-024

Bentvelsen, S. et al.
Special Supersymmetric features of large invariant mass unpolarized
and polarized top-antitop production at the LHC
Phys. Rev. D71 (2005) 071000

Campabadal, F. (et al.), Colijn, A.P.; Cornelissen, T.; Gorone, G.W.;
Hartjes, F.G.; Hessey, N.P.; Jbng, P. de; Kluit, R.; Koffeman, E.; Muijs,
A.J.M.; Peeters, S.J.M.
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Nucl. Instr. Meth. A552 (2005) 292-328

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Abdesselam, A. (et al.), Colijn, A.P.; Cornelissen, T.; Hartjes, F.G.;
Hessey, N.P.; Jbng, P. de; Koffeman, E.; Kraaij, E. van der; Limper,
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The barrel modules of the ATLAS semiconductor tracker
Nucl. Instr. Meth. A568 (2006) 642

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The Read-Out Driver for the ATLAS MDT Muon Precision Chambers
IEEE Trans. Nucl. Sci. 53 (2006) 741

Vermeylen, J (et al.), Kieft, G.
ATLAS DataFlow: The Read-Out Subsystem, Results From Trigger and
Data-Acquisition System Testbed Studies and From Modeling
IEEE Trans. Nucl. Sci. 53 (2006) 912

Woudstra, M.; Bobbink, G.J.; Eldik, N. van; Graaf, H. van der; Kluit,
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Vreeswijk, M.; Groenstege, H.; Koopstra, J.; Mos, S.; Rewiersma, P.;
Timmermans, C.; Dijkema, J
Twin-tubes: 3D tracking based on the ATLAS muon drift tubes
Nucl. Instr. Meth. A560 (2006) 264

2007

A. Abdesselam (et al.); A.P. Colijn, F.G. Hartjes, N.P. Hessey, P. de
Jbng, E. Koffeman, E. van der Kraaij, M. Limper, C.A. Magrath,
A.J.M. Muijs, S.J.M. Peeters, I. van Vulpen
The ATLAS semiconductor tracker end-cap module
Nucl. Instr. Meth. A 575 (2007) 50

A. Ahmad (et al.); A.P. Colijn, F.G. Hartjes, N.P. Hessey, P. de Jong, E. Koffeman, E. van der Kraaij, M. Limper, C.A. Magrath, A.J.M. Muijs, S.J.M. Peeters, I. van Vulpen
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Nucl. Instr. Meth. A 578 (2007) 98

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Proceedings 1st LHC Detector Alignment Workshop, CERN, Geneva, Switzerland, 4-6 Sep. 2006. CERN2007-004. ISBN 978929082959. 159

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Nucl. Phys. B (Proc. Suppl.) 172 (2007) 15

T. Cornelissen, W. Liebig
ATLAS Inner Detector Results from the 2004 Combined Test Beam Data
Nucl. Phys. B (Proc. Suppl.) 172 (2007) 292

I. van Vulpen
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Acta Phys. Pol. B 38 (2007) 515

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The ATLAS Data Acquisition and Trigger: concept, design and status
Nucl. Phys. B (Proc. Suppl.) 172 (2007) 178

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J Instr. 3 (2008) S08000

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IEEE Trans. Nucl. Sci. 55 (2008) 112

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Performance of the final event builder for the ATLAS experiment
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Acta Phys. Polon. Supp 3 (2010) 809
- Looking for technicolor in ATLAS
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The ATLAS Inner Detector commissioning and calibration Eur. Phys. J C 70 (2010) 787	Commissioning and performance of the ATLAS Inner Detector with the first beam and cosmic data Nucl. Instr. Meth. A 617 (2010) 1
The ATLAS Simulation Infrastructure Eur. Phys. J C 70 (2010) 82	Bringing the ATLAS Muon Spectrometer to life with cosmic rays Nucl. Instr. Meth. A 617 (2010) 411
Commissioning of the ATLAS Muon Spectrometer with cosmic rays Eur. Phys. J C 70 (2010) 875	Alignment of the ATLAS inner detector tracking system Nucl. Instr. Meth. A 623 (2010) 56
Readiness of the ATLAS Tile Calorimeter for LHC collisions Eur. Phys. J C 70 (2010) 119	ATLAS upgrade for the super LHC - Meeting the challenges of a ten-fold increase in collisions Nucl. Instr. Meth. A 623 (2010) 94
Commissioning of the ATLAS high-level trigger with single LHC beam and cosmic rays IEEE Trans. Nucl. Sci. 57 (2010) 566	Commissioning of the ATLAS level1 endcap muon trigger system Nucl. Instr. Meth. A 623 (2010) 522
The ATLAS Trigger System IEEE Trans. Nucl. Sci. 57 (2010) 650	Commissioning of the ATLAS Level-1 central trigger system Nucl. Instr. Meth. A 623 (2010) 552
Performance of the ATLAS detector using first collision data J High Energy Phys. 09 (2010) 056	Commissioning of the ATLAS high-level trigger with single beam and cosmic rays Nucl. Instr. Meth. A 623 (2010) 555
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Performance of the ATLAS Transition Radiation Tracker read-out with cosmic rays and first high energy collisions at the LHC J Instr. 5 (2010) C11006	Observation of a centrality-dependent dijet asymmetry in lead-lead collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector at the LHC Phys. Rev. Lett. 105 (2010) 252
Detailed performance study of ATLAS endcap muon trigger with beam collision J Instr. 5 (2010) C11010	Charged-particle multiplicities in pp interactions at $\sqrt{s} = 900$ GeV measured with the ATLAS detector at the LHC Phys. Lett. B 688 (2010) 21
Performance of the ATLAS detector and its electronics under first beam conditions J Instr. 5 (2010) C12011	ATLASTDAQ Collaboration: M. Abolins (et al.); H. Garitaonandia Elejabarrieta, O. Igonkina, G. Kieft, S. Klous, J. Mechnich, G. Salamanca, M. Tsakiriris, J.C. Vermeulen Upgrading the ATLAS Level-1 Calorimeter Trigger using topological information J Instr. 5 (2010) C12046
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Development and online operation of minimum bias triggers in ATLAS J Instr. 5 (2010) C12051	First-year experience with the ATLAS online monitoring framework J Phys.: Conf. Series 219 (2010) 022005
Commissioning of the ATLAS High Level Trigger with single beam and cosmic rays J Phys.: Conf. Series 219 (2010) 022006	ATLAS DataFlow Infrastructure: Recent results from ATLAS cosmic and first-beam data-taking J Phys.: Conf. Series 219 (2010) 022047
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DØ

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Phys. Rev. Lett. 95 (2005) 151805

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Phys. Rev. Lett. 95 (2005) 161602

Measurement of the lifetime difference in the B_s^0 system

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Measurement of semileptonic branching fractions of B mesons to narrow D⁺ states

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Search for single top quark production in $p\bar{p}$ collisions at $\sqrt{s}=1.96$ TeV

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Phys. Lett. B626 (2005) 5-44

Measurement of the $t\bar{t}$ production cross section in $p\bar{p}$ collisions at $\sqrt{s}=1.96$ TeV using kinematic characteristics of lepton+jets events

Phys. Lett. B626 (2005) 45-54

Measurement of the $t\bar{t}$ production cross section in $p\bar{p}$ collisions at $\sqrt{s}=1.96$ TeV in dilepton final states

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Search for first-generation scalar leptoquarks in $p\bar{p}$ collisions at $\sqrt{s}=1.96$ TeV

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Measurement of the $pp \rightarrow W\gamma + X$ cross section at $\sqrt{s}=1.96$ TeV and WWγ anomalous coupling limits

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Search for right-handed W bosons in top quark decay

Phys. Rev. D72 (2005) 011104

Measurement of the top quark mass in all-jet events

Phys. Lett. B606 (2005) 25

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3.2 Physics with b-quarks: LHCb

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BABAR Collaboration: B. Aubert (et al.); M.A. Baak, G. Raven, H.L. Snoek

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Observation of $Y(3940) \rightarrow J/\psi \omega$ in $B \rightarrow J/\psi \omega K$ at BABAR Phys. Rev. Lett. 101 (2008) 082001	Searches for the decays $B^0 \rightarrow l^\pm \tau^\mp$ and $B^+ \rightarrow l^+ v$ ($l = e, \mu$) using hadronic tag reconstruction Phys. Rev. D 77 (2008) 091104
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Measurement of the CP asymmetry in $b \rightarrow s y$ using a sum of exclusive final states Phys. Rev. Lett. 101 (2008) 171804	Study of $B \rightarrow X(3872)K$, with $X(3872) \rightarrow J/\psi \pi^+ \pi^-$ Phys. Rev. D 77 (2008) 1111101
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Study of resonances in exclusive B decays to $\bar{D}^{(*)} D^{(*)} K$ Phys. Rev. D 77 (2008) 011102	Observation of $B^+ \rightarrow b_1^+ K^0$ and search for B-meson decays to $b_1^0 K^0$ and $b_1^- \pi^0$ Phys. Rev. D 78 (2008) 011104
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Measurement of the CP-violating asymmetries in $B^0 \rightarrow K_s^0 \pi^0$ and of the branching fraction $B^0 \rightarrow K^0 \pi^0$ Phys. Rev. D 77 (2008) 012002	Study of B-meson decays to $\eta_c K^{(*)}, \eta_c(2S) K^{(*)}$, and $\eta_c \gamma K^{(*)}$ Phys. Rev. D 78 (2008) 012006
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Search for decays of B^0 mesons into $e^+ e^-$, $\mu^+ \mu^-$ and $e^\pm \mu^\mp$ final states Phys. Rev. D 77 (2008) 012007	Improved measurement of the CKM angle γ in $B^+ \rightarrow D^{(*)} K^{(*)\mp}$ decays with a Dalitz plot analysis of D decays to $K_s^0 \pi^+ \pi^-$ and $K_s^0 K^+ K^-$ Phys. Rev. D 78 (2008) 012002
Measurement of the $B \rightarrow X_s y$ branching fraction and photon energy spectrum using the recoil method Phys. Rev. D 77 (2008) 051102	Study of the decay $D_s^+ \rightarrow K^+ K^- e^+ \nu_e$ Phys. Rev. D 78 (2008) 051101

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Evidence for $B^+ \rightarrow \bar{K}^* 0 K^{*+}$ Phys. Rev. D 79 (2009) 051102	Measurement of $D^0 - \bar{D}^0$ mixing using the ratio of lifetimes for the decays $D^0 \rightarrow K^- \pi^+$ and $K^+ K^-$ Phys. Rev. D 80 (2009) 071101
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Observation of B-meson decays to ωK^* and improved measurements for ωp and ωf_0 Phys. Rev. D 79 (2009) 052005	Study of D_{sJ} decays to $D^* K$ in inclusive $e^+ e^-$ interactions Phys. Rev. D 80 (2009) 092001
Measurement of the $B^+ \rightarrow \omega l^+ \nu$ and $B^+ \rightarrow \eta l^+ \nu$ branching fractions Phys. Rev. D 79 (2009) 052011	Measurements of the τ mass and the mass difference of the τ^+ and τ^- at BABAR Phys. Rev. D 80 (2009) 092005
Constraints on the CKM angle γ in $B^0 \rightarrow \bar{D}^0(D^0)K^{*0}$ from a Dalitz analysis of $D^0 \rightarrow K_S \pi^+ \pi^-$ Phys. Rev. D 79 (2009) 072001	Observation and polarization measurement of $B^0 \rightarrow a_1(1260)^+ a_1(1260)^-$ decay Phys. Rev. D 80 (2009) 092007
Dalitz plot analysis of $B^{\pm} \rightarrow \pi^{\pm} \pi^{\pm} \pi^{\mp}$ decays Phys. Rev. D 79 (2009) 072006	B-meson decays to charmless meson pairs containing η or η' mesons Phys. Rev. D 80 (2009) 111102
Measurement of time-dependent CP asymmetry in $B^0 \rightarrow c\bar{c} K^{*0}$ decays Phys. Rev. D 79 (2009) 072009	Model-independent search for the decay $B \rightarrow l \bar{V} Y$ Phys. Rev. D 80 (2009) 111105
Search for the rare leptonic decays $B^+ \rightarrow l^+ \nu_l$ ($l = e, \mu$) Phys. Rev. D 79 (2009) 091101	Time-dependent amplitude analysis of $B^0 \rightarrow K_S^0 \pi^+ \pi^-$ Phys. Rev. D 80 (2009) 112001
Exclusive initial-state-radiation production of the $D\bar{D}$, $D^*\bar{D}$, and $D^*\bar{D}^*$ systems Phys. Rev. D 79 (2009) 092001	2010 BABAR Collaboration: P. del Amo Sanchez (et al.); B. Aubert (et al.), M.A. Baak, G. Raven, H.L. Snoek
Measurement of the semileptonic decays $B \rightarrow D \tau^- \bar{\nu}_\tau$ and $B \rightarrow D^* \tau^- \bar{\nu}_\tau$ Phys. Rev. D 79 (2009) 092002	Measurement of $ V_{cb} $ and the form-factor slope in $B \rightarrow D^- l^- \bar{\nu}_l$ decays in events tagged by a fully reconstructed B-meson Phys. Rev. Lett. 104 (2010) 011802
Search for the $Z(4430)^-$ at BABAR Phys. Rev. D 79 (2009) 112001	Searches for Lepton Flavor Violation in the Decays $\tau^\pm \rightarrow e^\pm \gamma$ and $\tau^\pm \rightarrow \mu^\pm \gamma$ Phys. Rev. Lett. 104 (2010) 021802
Dalitz plot analysis of $B \rightarrow D^+ \pi^+ \pi^-$ Phys. Rev. D 79 (2009) 112004	Search for charged lepton flavor violation in narrow Y decays Phys. Rev. Lett. 104 (2010) 151802
Measurement of the branching fraction and $\bar{\Lambda}$ polarization in $B^0 \rightarrow \bar{\Lambda} \rho \pi^+$ Phys. Rev. D 79 (2009) 112009	Test of lepton universality in $Y(1S)$ decays at BaBar Phys. Rev. Lett. 104 (2010) 191801
Search for B^0 meson decays to $\pi^0 K_S^0 K_S^0$, $\eta K_S^0 K_S^0$, and $\eta' K_S^0 K_S^0$ Phys. Rev. D 80 (2009) 011101	Measurements of charged current lepton universality and $ V_{us} $ using τ lepton decays to $e^- \bar{\nu}_e$, $\mu^- \bar{\nu}_\mu$, $\tau^- \bar{\nu}_\tau$, and $K^- \bar{\nu}_\tau$ Phys. Rev. Lett. 105 (2010) 051602
Search for $b \rightarrow u$ transitions in $B^0 \rightarrow D^0 K^{*0}$ decays Phys. Rev. D 80 (2009) 051102	Measurement of D^0 - D mixing parameters using $D^0 \rightarrow K_S^0 \pi^+ \pi^-$ and $D^0 \rightarrow K_S^+ K^-$ decays Phys. Rev. Lett. 105 (2010) 081801
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Virgo Collaboration: F. Acernese (et al.); Th.S. Bauer, J.F.J van den Brand, H.J. Bulten, S. van der Putten
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An all-sky search
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Search for gravitational-wave bursts associated with gamma-ray bursts using data from LIGO science run 5 and Virgo science run 1
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Search for gravitational-wave inspiral signals associated with short gamma-ray bursts during LIGO'S fifth and Virgo's first science run
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Predictions for the rates of compact binary coalescences observable by ground-based gravitational-wave detectors
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All-sky search for gravitational-wave bursts in the first joint LIGO-GEO-Virgo run
Phys. Rev. D 81 (2010) 102001

Search for gravitational waves from compact binary coalescence in LIGO and Virgo data from S5 and VSR1
Phys. Rev. D 82 (2010) 102001

3.6 Cosmic rays: Pierre Auger Observatory

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Pierre Auger Collaboration: J Abraham (et al.); J Coppens, H. Falcke, S. Harmsma, J Horandel, A. Horneffer, S.J de Jong, C. Timmermans
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Pierre Auger Collaboration: J Abraham (et al.); J Coppens, S. Harmsma, S.J de Jong, C. Timmermans
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Astropart. Phys. 29 (2008) 188

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Astropart. Phys. 29 (2008) 24

Upper limit on the diffuse flux of ultrahigh energy tau neutrinos from the Pierre Auger Observatory
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Pierre Auger Collaboration: J Abraham (et al.); J Coppens, H. Falcke, S. Grebe, S. Harmsma, J Horandel, A. Horneffer, S. Jraskova, S.J de Jong, J Petrovic, H. Schoorlemmer, C. Timmermans
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Observation of radio signals from air showers at the Pierre Auger Observatory
Nucl. Instr. Meth. A 604 (2009) S41

Limit on the diffuse flux of ultrahigh energy T neutrinos with the surface detector of the Pierre Auger Observatory
Phys. Rev. D 79 (2009) 102001

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Pierre Auger Collaboration: J Abraham (et al.), P. Abreu (et al.), A. Aminaei, J. Coppens, H. Falcke, S. Grebe, S. Harmsma, J.R. Horandel, A. Horneffer, S. Jraskova, S.J de Jong, J. Kelley, J. Petrovic, H. Schoorlemmer, C. Timmermans
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Nucl. Instr. Meth. A 613 (2010) 29

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Nucl. Instr. Meth. A 620 (2010) 227

Measurement of the depth of maximum of extensive air showers above 10^{18} eV
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A measurement of the τ hadronic branching ratios Eur. Phys. J C46 (2006) 1	Z γ^* production in e ⁺ e ⁻ interactions at $\sqrt{s} = 183\text{--}209$ GeV Eur. Phys. J C 51 (2007) 50
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