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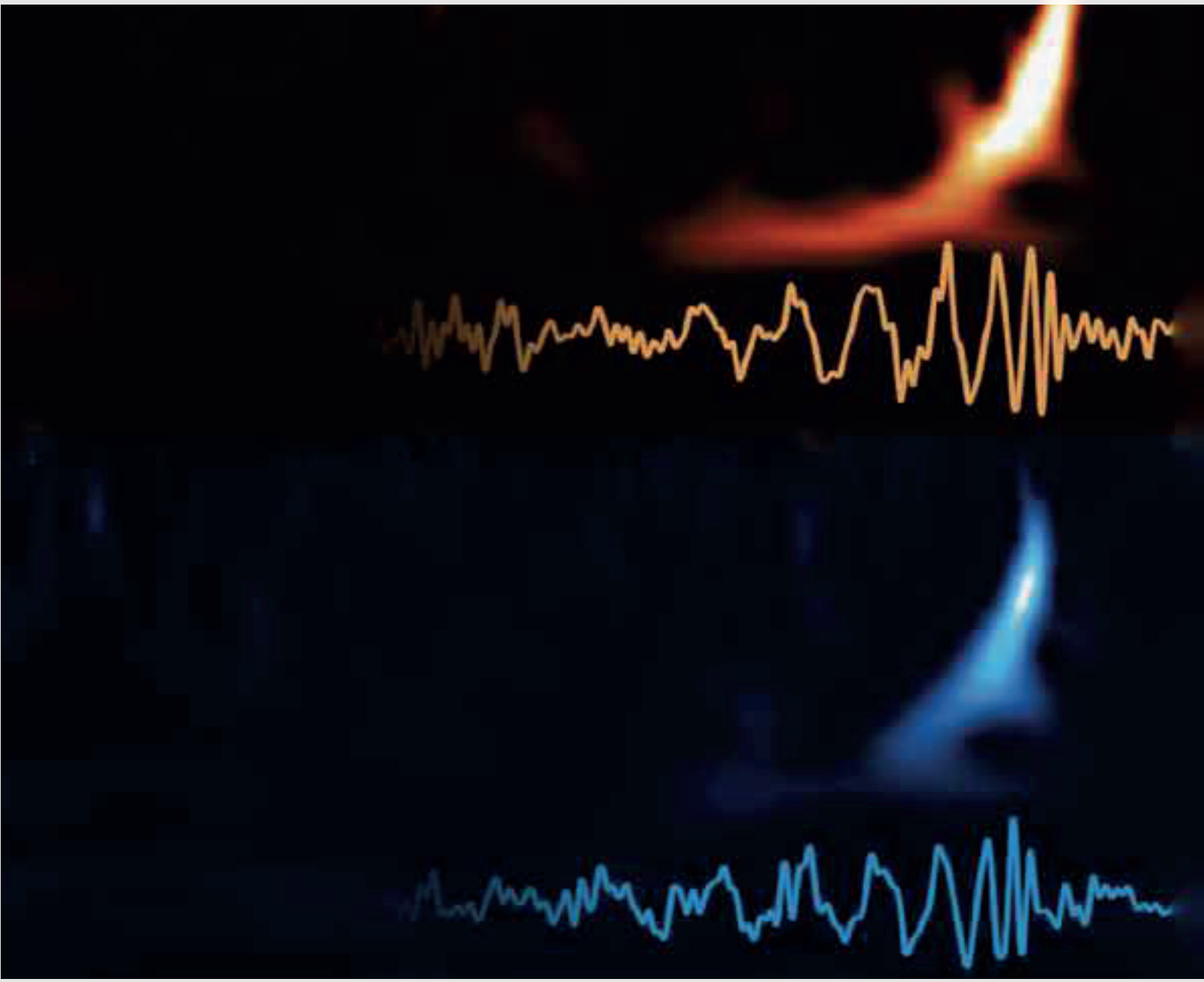

Nikhef

National Institute for Subatomic Physics

Annual Report 2016 Appendix

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Cover: First observation of gravitational waves by the LIGO-Virgo collaboration.

Nikhef participates in experiments at the Large Hadron Collider at CERN, notably ATLAS, LHCb and ALICE. Astroparticle physics activities at Nikhef are fourfold: the ANTARES and KM3NeT neutrino telescope projects in the Mediterranean Sea; the Pierre Auger Observatory for cosmic rays, located in Argentina; gravitational-wave detection via the Virgo interferometer in Italy, the direct search for Dark Matter with the XENON detector in the Gran Sasso underground laboratory in Italy. The low-energy eEDM experiment is located at the University of Groningen. Detector R&D, design and construction take place at the laboratory located at Amsterdam Science Park as well as at the participating universities. Data analyses make extensive use of large-scale computing at the Tier-1 grid facility operated jointly by Nikhef and SURFsara. The Nikhef theory group has its own research programme while being in close contact with the experimental groups.

Contents

Publications

ATLAS/DØ

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The first detection of gravitational waves, Siebold meeting, Leiden, The Netherlands, 20/03/2016
Observation of gravitational waves, Holland Tansei-kai (Alumni meeting of the Univ. of Tokyo), Amsterdam, The Netherlands, 06/07/2016
Gravitational Waves Have Been Observed Finally, 7th OB/OG symposium of Ishii laboratory, Tokyo, Japan, 29/10/2016

Beenakker, W.
Wat als ... de quantummechanica nooit was ontdekt, KIJK Live!, Utrecht, The Netherlands, 16/03/2016

Bentvelsen, S.C.M.
Het Higgs deeltje en verder - fascinerende fysica bij LHC, Stanislas College, Delft, The Netherlands, 27/01/2016
Het Higgs deeltje - fascinerende fysica bij LHC, New Scientist, Amsterdam, The Netherlands, 27/01/2016
What lies beyond the Higgs particle?, TU/e, Eindhoven, The Netherlands, 02/03/2016
Nikhef scientific programme, EU Astron, Dwingeloo, The Netherlands, 10/06/2016
Nikhef mission - pushing the limits of our knowledge, Amsterdam University College, Amsterdam, The Netherlands, 31/08/2016
Het Higgs deeltje en verder - fascinerende fysica bij LHC, Nikhef open dag, Amsterdam, The Netherlands, 01/10/2016
What are the elementary particles our universe is made of?, MOOC - Big History - UvA, Amsterdam, The Netherlands, 17/10/2016
What are the fundamental forces that determine how our universe behaves?, MOOC - Big History - UvA, Amsterdam, The Netherlands, 17/10/2016
Is our Standard Model of elementary particles and fundamental forces complete?, MOOC - Big History - UvA, Amsterdam, The Netherlands, 17/10/2016
Wat valt er nog te ontdekken na de Higgs?, TOPAS - Stedelijk Gymnasium, Hilversum, The Netherlands, 17/11/2016

Boom, B.A.
The quest for gravitational waves, "Lunchlezing VvTP, TU Delft", Delft, The Netherlands, 26/02/2016
Speuren naar zwaartekrachtsgolven, Publiekssterrenwacht Phoenix, Lochem, The Netherlands, 20/05/2016

Borga, A.O.
High Energy Physics and Open Source engineering: accelerate shared knowledge, Open Source Software and Hardware Conference 2016, Den Bosch, The Netherlands, 30/11/2016

Brand, J. van den
Zwaartekrachtsgolven van de botsing van twee zwarte gaten, WND Conference, Noordwijkerhout, The Netherlands, 17/12/2016
Zwaartekrachtsgolven, Science Caf_e Deventer, Deventer, The Netherlands, 9/11/2016
Gravitational waves from binary black hole mergers, Differ, Eindhoven, The Netherlands, 27/10/2016
Einstein en zwaartekrachtsgolven, Museum Boerhaave, Leiden, The Netherlands, 24/10/2016
Gravitational waves from the merger of two black holes, Opening of the academic year, Department of Physics Amsterdam, Amsterdam, The Netherlands, 21/09/2016
Onderzoek naar zwaartekrachtgolven bij de samensmelting van twee zwarte gaten, Rotterdams Natuurkundig Genootschap, Rotterdam, The Netherlands, 20/09/2016
Black holes and gravitational waves, Urania, Hove, Belgium, 9/09/2016
De ontdekking van zwaartekrachtsgolven, Sterrenwacht Gooi en Vechtstreek, `s Graveland, The Netherlands, 8/09/2016
De ontdekking van zwaartekrachtsgolven, De nacht van kunst en wetenschap, Groningen, The Netherlands, 4/06/2016
Einstein Telescope - de ultieme faciliteit voor onderzoek naar zwaartekrachtsgolven, Limburgborrel, Den Haag, The Netherlands, 7/06/2016
Einstein Telescope - de ultieme faciliteit voor onderzoek naar zwaartekrachtsgolven, Holland at CERN, CERN, Geneva, Switzerland, 31/05/2016
Black holes and gravitational waves, Meten van NWO, Amsterdam, The Netherlands, 19/052016
Discovery of gravitational waves, Natuurwetenschappelijke Studievereniging, Amsterdam, The Netherlands, 12/05/2016
Discovery of gravitational waves, Orientation Physics UvA, Amsterdam, The Netherlands, 10/05/2016
Windows on the Universe: Einstein Telescope for gravitational wave detection, Hannover Messe, The Netherlands, 25/04/2016
One century of searching for gravitational waves, Hannover Messe, The Netherlands, 25/04/2016
Detection of gravitational waves from the merger of two black holes, Geel, Mol, Belgium, 22/04/2016
De ontdekking van zwaartekrachtsgolven, Amsterdamse Universiteits-Vereniging (AUV)-alumnikring natuurkunde, UvA, Amsterdam, The Netherlands, 23/04/2016
Ontdekking van zwaartekrachtsgolven, Broodje NWO, Amsterdam, The Netherlands, 7/03/2016
Hoe meet men gravitatiestraling? (How do we measure GWs?), Gravitatiestraling KNAW - Minisymposium, Amsterdam, The Netherlands, 25/02/2016
Observing gravitational waves from the merger of two black holes, VU University, Amsterdam, The Netherlands, 19/02/2016
Gravitatie en kosmologie, Delft afdeling KNVWS, Delft, The Netherlands, 16/02/2016
Recente resultaten van experimenten met LHC op CERN, Gemeentelijk Gymnasium Hilversum, The Netherlands, 27/01/ 2016

Decowski, M.P.
Nobelprijs 2015 voor neutrino-oscillaties, Viva Fysica 2016, Amsterdam, The Netherlands, 29/01/2016
The Hunt for the Dark Matter Particle, Marie Curie Symposium, Nijmegen, The Netherlands, 27/05/2016

Filthaut, F.
Nieuwe mogelijkheden voor de Large Hadron Collider, Bosche Chemische Kring, den Bosch, The Netherlands, 13/01/2016
Recent Developments in Fundamental Physics, TU/e Science Class, Eindhoven, The Netherlands, 02/03/2016
Computers bij experimenten in de deeltjesfysica, gastcollege TU/e, Eindhoven, The Netherlands, 10/10/2016

Groep, D.L.
Showing Real Big Data - visualising data transfers for the public, Hogeschool van Amsterdam, Amsterdam, The Netherlands, 04/02/2016
Incident Response in Federations, Security Training at the DI4R Conference, Krakow, Poland, 29/09/2016
The EUGridPMA, 24th TAGPMA plenary meeting, Hamilton, Bermuda, 25/10/2016

Heijningen, van, J.V.
Het vroege heelal, de kosmische achtergrondstraling en gravitatiegolven, KNVWS Leeuwarden Lezing, Amsterdam, The Netherlands, 27/02/2016
Zwaartekrachtsgolven, Vrije Studie Lezing, Delft, The Netherlands, 18/04/2016
Gravitational Waves, Aperture Lecture, Maastricht, The Netherlands, 03/05/2016
Zwaartekrachtsgolven en kosmologie, AV Wega Lezing, Tilburg, The Netherlands, 10/05/2016
Zwaartekrachtsgolven en kosmologie, SWS Eemsmond Lezing, Appingedam, The Netherlands, 07/12/2016
Zwaartekrachtsgolven en kosmologie, Science Café Astra Alteria, Ede, The Netherlands, 12/12/2016

Holten, van, J.W.
Elementaire deeltjes, "Public lecture high-school students, Leiden Univ.", Leiden, The Netherlands, 15/01/2016

Igonkina, O.
Materie, antimaterie en de kosmische puzzel, de Avond van Wetenschap & Maatschappij, Den Haag, The Netherlands, 03/10/2016

Jong, de, S.J.
Gebroken Symmetrie, NSG Expo: Gebroken Symmetrie, Nijmegen, The Netherlands, 29/01/2016
Introduction to CERN, New Scientist visit to CERN, Geneva, Switzerland, 18/02/2016
Wat doe je met wiskunde, natuurkunde en scheikunde?, IMC weekend school, Nijmegen, The Netherlands, 03/04/2016
CERN, Huiskamerlezing, Rotterdam, The Netherlands, 09/04/2016
CERN, VvTP lunch lezing, TU Delft, Delft, The Netherlands, 20/04/2016
Het fascinerende heelal, De Kaaij, Radboud Reflects, Nijmegen, The Netherlands, 24/08/2016
CERN, Accelerating Science and Technology, Hello Tomorrow, Paris, France, 13/10/2016
(Ultra-hoogenergetische) kosmische straling, Astra Alteria lezing, Putten, The Netherlands, 28/11/2016

Linde, F.
Massa mysteries in de elementaire deeltjesfysica, Heerbeeck college, Best, The Netherlands, 11/01/2016
Neutrino's - een Nobel deeltje - Elementaire Deeltjesfysica, Studium Generale, Maastricht, The Netherlands, 18/01/2016
Theoretische voorspellingen - Experimentele ontdekkingen, Frontiers of Physics, Leusden, The Netherlands, 25/02/2016
De zoektocht naar donkere materie, KNAW Raad voor Natuur- & Sterrenkunde, Amsterdam, The Netherlands, 26/09/2016

Mauro, de, G.
The beauty of Cosmic Rays, Tilburg University Chaplaincy, Tilburg, The Netherlands, 28/04/2016

Merk, M.H.M.
Higgs en het mysterie van ontbrekende antimaterie, Rotaryclub Probus-II, Maastricht, The Netherlands, 16/03/2016
Higgs and the mystery of missing antimatter, Aperture students association Science Program, Maastricht, The Netherlands, 13/04/2016
Relativiteitstheorie en Zwaartekrachtsgolven, Rotaryclub Past-Rotarians, Kanne, Belgium, 09/05/2016
Cern en Large Hadron Collider experimenten, NNV VWO studenten, Amsterdam, The Netherlands, 09/09/2016
Higgs en het mysterie van ontbrekende antimaterie, Sterrenkunde club Astra Altera, Ede, The Netherlands, 10/10/2016
Recente Ontwikkelingen bij de LHC, Sterrenkundeclub stichting JC van der Meulen, Hoorn, The Netherlands, 14/10/2016

Mulder, M.
LHCb: het perspectief van een PhD-student, Dutch Teacher Programme 2016, Meyrin, Switzerland, 24/10/2016

Onderwater, C.J.G.
Einsteins Ballerina,the discovery of gravitational waves,, Webinar University College Groningen, Groningen, The Netherlands, 16/02/2016
Echo's van de oerknal, Guestlecture Werkman College, Groningen, The Netherlands, 19/02/2016
Echo's van de oerknal, Guestlecture Praedinius Gymnasium, Groningen, The Netherlands, 30/05/2016
Deeltjesdierentuin, Zpannend Zernike, Groningen, The Netherlands, 01/10/2016
De aarde warmt op!, maar hoe weten we dat eigenlijk?, RGO Sustainability week, Middelharnis, The Netherlands, 21/12/2016

Rijn, van, A.J.
Collaboration in (astro)particle physics: a necessity, Health-RI conference, Amersfoort, The Netherlands, 01/12/2016

Satish Kumar, S.
Once upon a space-time..., Charney School of Marine Sciences, University of Haifa (Video Conference), Haifa, Israel, 21/05/2016
Discovery of Gravitational Waves, Sri Jothi higher Secondary School, Salem, India, 08/09/2016
Discovery of Gravitational Waves, Sri Vidhya Mandir Senior Sec. School, Ayothiyapattanam, Salem, India, 07/10/2016

Schaaf, van der, L.S.
The Quest for Gravitational Waves, Delft Lunchlezing, Delft, The Netherlands, 26/02/2016
Rimpelende Ruimtetijd meten en analyseren van zwaartekrachtsgolven, Science Cafe Deventer, Deventer, The Netherlands, 09/11/2016

Schultheiss, N.G.
Python bij deeltjesdetectie met HiSPARC: Notebooks in de klas, Woudschoten-conferentie Natuurkunde-didactiek, Noordwijkerhout, The Netherlands, 16/12/2016

Suerink, T.C.H.
Sneller dan het licht, Netwerk evenement, Sliedrecht, The Netherlands, 12/05/2016

Tuning, N.
Deeltjes en Zwaartekracht in 2016, Zin-Inn Lezing, Aalsmeer, The Netherlands, 14/12/2016

Verkerke, W.
Discovering the Higgs – finding the needle in the haystack, Intel International Science Education Fair, Geneva, Switzerland, 13/06/2016
Discovering the Higgs – finding the needle in the haystack, CERN Openlab, Geneva, Switzerland, 11/07/2016

Vries, de, J.A.
Why is there stuff?, FYSICA 2016, Nijmegen, The Netherlands, 08/04/2016

Vulpen, van, I.B.
De rare wereld van elementaire deeltjes en de open mysteries, Koninklijke Nederlandse Vereniging voor Weer en Sterrenkunde, Arnhem, The Netherlands, 16/03/2016
Elementaire bouwstenen van de natuur, Guest lecture, Delft, The Netherlands, 08/04/2016
De magie van het allergrootste en het allerkleinste, Soul and Brains, Leiden, The Netherlands, 17/09/2016
De wereld van elementaire deeltjes, Weer- en sterrenkundige kring Zaanstreek, Oostzaan, The Netherlands, 27/10/2016

Talks (invited)

Aab, A.
Update Of Time Distribution Studies With Non-thinned Air Shower Simulations, Auger Analysis Meeting, Karlsruhe, Germany, 27/06/2016
Time Distribution Studies With Non-thinned Air Shower Simulations, Auger Youngsters Meeting, Aachen, Germany, 12/09/2016
Obtaining the nature of primary cosmic rays from the tail of an air shower, NNV Annual Meeting, Lunteren, The Netherlands, 04/11/2016

Agatsuma, K.
Development of the Phase Camera for Monitoring Mirror Aberrations and Laser Sidebands, 5th Annual World Congress of Advanced Materials-2016 (WCAM-2016), Chongqing, China, 06/06/2016
Frontiers of the Gravitational Wave Observation, Special lecture for graduate students, Tokyo University of Science, Tokyo, Japan, 27/10/2016
The First Detection of Gravitational Waves and the Current Status of Detectors, Seminar for Nikuni laboratory in the physics department, Tokyo University of Science, Tokyo, Japan, 27/10/2016
The Front Line of the Observation of Gravitational Waves, Colloquium in the Physics Engineering Educational Program, YOKOHAMA National University, Yokohama, Japan, 31/10/2016
How to Reach Gravitational Wave Observation, Seminar in the physics department, The University of Tokyo, Tokyo, Japan, 01/11/2016
The Forefront of the Gravitational Wave Observation, Colloquium in the Physics and mathematics department, Aoyama Gakuin University, Kanagawa, Japan, 01/11/2016

Alkofer, N.
Quantum Gravity signatures in the Unruh effect, Workshop: Non-perturbative aspects of Quantum Field Theory, Cakovec, Croatia (Hrvatska), 05/10/2016
Bakel, van, N. .A.
Eureka - Technology Transfer at Nikhef, Seminar Institut de Física d'Altes Energies (IFAE), Barcelona, Spain, 11/01/2016

Becker, D.
Asymptotically Safe Quantum Gravity En route to background independence, ERG2016 conference, Trieste, Italy, 21/09/2016
Higher derivatives & the functional renormalization group, Quantum Gravity Seminar, University of Heidelberg, Heidelberg, Germany, 14/12/2016
Asymptotic Safety and higher derivative theories, Quantum gravity group seminar, Univ. Mainz, Mainz, Germany, 16/12/2016
Asymptotic Safety, unitarity and the theory space, Cold Quantum Coffee Seminar, University of Heidelberg, Heidelberg, Germany, 19/12/2016

Beekveld, van, M.
The case for the 100 GeV bino-like Dark Matter particle, TeV Particle Physics 2016, CERN, Geneva, Switzerland, 16/09/2016

Bel, L.J.
The LHCb Starterkit, ICHEP, Chicago, USA, 06/08/2016

Bentvelsen, S.C.M.
Mid-term report from the Netherlands, PECFA, CERN, The Netherlands, 24/11/2016

Bertolini, A.
Detection of gravitational waves, NEVAC Annual Meeting, Leiden, The Netherlands, 27/05/2016

Bertone, V.
APFEL: A PDF Evolution Library, REF 2016, Antwerp, Belgium, 07/11/2016
Neural Network Fragmentation Functions, Parton Radiation and Fragmentation from LHC to FCC-ee, Geneva, Switzerland, 21/11/2016

Beuzekom, van, M.G.
Hybrid pixels in LHCb, 10th International Meeting on Front-End Electronics (FEE 2016), Krakow, Poland, 01/06/2016

Boom, B.A.
MEMS seismometer development at Nikhef, Gravitational Wave Advanced Detector Workshop, La Biodola, Italy, 26/05/2016

Brand, J. van den
Sensing the strains induced by gravitational waves, FOM Veldhoven, Veldhoven, The Netherlands, 20/01/2016
Research Infrastructures: costs and characteristics of an underground infrastructure like E.T., 7th ET Symposium: 'First ET-LIGO 3G' workshop, Florence, Italy, 2/02/2016
Newtonian Noise subtraction R&D, 7th ET Symposium: 'First ET-LIGO 3G' workshop, Florence, Italy, 2/02/2016
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The direct detection of gravitational waves: The first discovery, and what the future might bring, ECFA Meeting, Gran Sasso, Italy, 30/06/2016
The direct detection of gravitational waves: The first discovery, and what the future might bring, ECFA Meeting, Gran Sasso, Italy, 30/06/2016
Tests of general relativity with gravitational waves, TeVPA 2016, CERN, Switzerland, 12/09/2016
Advanced Virgo status and tests of general relativity with gravitational waves, 26th Workshop on General Relativity and Gravitation in Japan, Osaka, Japan, 24/10/2016
Constraining the neutron star equation of state with gravitational wave signals from coalescing binary neutron stars, Astrophysics in the Era of Gravitational Wave and Multimessenger Observations, Annapolis, Maryland, USA, 09/11/2016
Constraining the neutron star equation of state with gravitational wave signals from coalescing binaries, Physics and Astrophysics at the Extreme, State College, Pennsylvania, USA, 01/12/2016
Four ways of doing cosmography with gravitational waves, Physics and Astrophysics at the Extreme, State College, Pennsylvania, USA, 03/12/2016

Vankov, P.
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Verheyen, R.
Competing Sudakov Veto Algorithms, Parton Showers, Event Generators and Resummation 2016 (PSR16), Paris, France, 04/07/2016

Verkerke, W.
Higgs Precision Measurements, Spåtind 2016, Skeikampen, Norway, 03/01/2016
Constraints on Higgs couplings from a combination of ATLAS and CMS measurements, Niels Bohr Institute, Copenhagen, Denmark, 26/01/2016
Constraints on Higgs couplings from a combination of ATLAS and CMS measurements, Queen Mary University London, London, UK, 12/02/ 2016
Profile Likelihood Fits and systematic uncertainties, 4th French School of Statistics, Autrans, France, 03/06/2016

Vermaseren, J.A.M.
FORM, Diagrams and Topologies, Loops and Legs 2016, Leipzig, Germany, 28/04/2016
Automated Calculations, Colloquium, Madrid, Spain, 26/05/2016
At the limits of what is possible, CAN symposium, Eindhoven, The Netherlands, 01/06/2016
My experiences with Shimizu-san, CPP2016, Hayama, Japan, 10/10/2016

Vink, W.E.W.
LHCb Scintillating Fiber detector front end electronics design and quality assurance, TWEPP 2016, Karlsruhe, Germany, 28/09/2016

Vis, van de, J.M.
Higgs stability during inflation and preheating, DRSTP AIO school, Dalfsen, The Netherlands, 02/02/2016
Higgs stability during preheating and vacuum dependence, Helsinki Higgs Forum, Helsinki, Finland, 16/12/2016

Vries, de, J.
P, CP, and CPT violation in Chiral Effective Field Theory, Seminar university of Bonn, Bonn, The Netherlands, 10/03/2016
Electric Dipole Moments and the search for new CP violation, Seminar PSI, Villigen, Switzerland, 12/04/2016
Vries, de, J.A., CP violation in mixing at LHCb, BEAUTY 2016, Marseille, France, 02/05/2016
Constraining the top-Higgs sector of the Standard Model effective field theory, Seminar CP3 Louvain, Louvain, Belgium, 15/06/2016
Effective Field Theories for EDMs: from TeV to nuclear scales, Int. workshop on the nuclear physics of Sakharov, Trento, Italy, 25/07/2016
An effective approach towards hadronic CP violation, Int. workshop on Quark confinement and the hadron spectrum XII, Thessaloniki, Greece, 30/08/2016
Effective field theories and low-energy CP violation, Int. workshop on Symmetry test in nuclei and atoms, Kavli institute for theoretical physics, Santa Barbara, USA, 22/09/2016
P and CP violation in few-body systems, Seminar, Los Alamos National Laboratory, Los Alamos, USA, 11/10/2016
Discrete symmetry violations and (chiral) EFT, workshop Advances in EFTs Forschungszentrum Jülich, Jülich, Germany, 08/11/2016

Vryonidou, E.
ttH in the EFT at NLO in QCD, LHC Higgs Cross-section Working Group workshop, CERN, Switzerland, 13/10/2016
op EFT in MCs: the case of ttV and ttH, LHC Top Working Group meeting, CERN, Switzerland, 23/11/2016
Latest from HH theory predictions, CMS HH workshop, Louvain la neuve, Belgium, 08/12/2016
Precision in EFT studies for top quark physics, Seminar at MPI Munich, Munich, Germany, 13/12/2016

Vulpen, van, I.B.
The world of elementary particles, NEVAC symposium, leiden, The Netherlands, 27/05/2016
Elementaire deeltjes, zomerschool programmeren, Amsterdam, The Netherlands, 06/07/2016
What's going on at the Large Hadron Collider, Opening academic year Institute of Physics UvA, Amsterdam, The Netherlands, 21/09/2016
So, where are those new particles ?, Colloquium Groningen, Groningen, The Netherlands, 29/09/2016
Computational thinking in the physics curriculum, ICAB conference, Delft, The Netherlands, 09/11/2016

Wit, de, B.
Open problems and outlook, Symposium 'Celebrating Supergravity at 40', Geneva, Switzerland, 24/06/2016
The c-map beyond the classical level, Workshop 'Supergravity: what next?', Florence, Italy, 08/09/2016
Striving for maximal supersymmetry, Anniversary Symposium C.N. Yang Institue for Theoretical Physics, New York, USA, 10/10/2016
Exact results for the STU model, Indian String Meeting 2016, Pune, India, 16/12/2016
On conformal supergravities in four space-time dimensions, ISSER, Pune, India, 20/12/2016

Zeune, L.
Impact of Jet Veto Resummation on SUSY Searches, SCET 2016, Hamburg, Germany, 23/03/2016
MSSM Higgs Interpretations after LHC Run 1, SUSY 2016, Melbourne, Australia, 04/07/2016
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Resummation for Multidifferential Cross Sections, ESI workshop on Challenges and Concepts for Field Theory and Applications in the Era of LHC Run-2, Vienna, Austria, 21/07/2016

Posters

Alkofer, N.
Spectral Dimensions from the Spectral Action, 54. Internationale Universitatswochen fur Theoretische Physik (54th Winter School), Schladming, Austria, 21/02/2016
Quantum Gravity Signatures in the Unruh Effect: Theory, Conference ERG 2016, Trieste, Italy, 19/09/2016

Bel, L.J., *for the LHCb Collaboration*
Time-dependent C\!P-violation measurements in $B^0 \rightarrow D^+ D^-$ decays at LHCb, ICHEP, Chicago, USA, 06/08/2016

Beuzekom, van, M.G., *on behalf of the LHCb VELO upgrade group*
The VeloPix ASIC for the LHCb VELO Upgrade, Pixel 2016 (8th International Workshop on Semiconductor Pixel Detectors for Particles and Imaging), Sestri Levante, Italy, 08/09/2016

Dall'Occo, E.
Edge Studies on sensors for the LHCb VELO Upgrade, First Barcelona Techno Week , Barcelona, Spain, 11/07/2016

Doni, M., *et al.*
A silicon detector in edge-on configuration for (spectral) computed tomography: experimental setup, simulation and reconstruction algorithm, 8th International Workshop on Semiconductor Pixel Detectors for Particles and Imaging, Sestri Levante (Genova), Italy, 05/09/2016

Hansson, C.
The DyTest setup: A UHV system for development of next generation detector technology, NEVAC Leiden University, Leiden, Netherlands Antilles, 27/05/2016
The Dynode: a new vacuum electron multiplier for a new generation of particle detectors, Imaging 2016 Chalmers University of Technology, Stockholm, Sweden, 15/06/2016
The Tynode: a new vacuum electron multiplier for ultrafast particle detectors, IWoRiD 2016, Barcelona, Spain, 04/07/2016

Heijden, van der, B.W.
SPIDR a General-Purpose Readout System for Pixel ASICs, Karlsruhe Institute of Technology, Karlsruhe, Germany, 26/09/2016

Hennes, E.
130 years of Michelson Interferometers, from 1 cm to 1 million km, DSPE Conf. on precision Mechatronics, Sint-Michielsgestel, The Netherlands, 04/10/2016

Hogenbirk, E.
XAMS: A dual-phase liquid xenon TPC for direct dark matter detection R&D, FOM Physics@Veldhoven, Veldhoven, The Netherlands, 19/01/2016

Keijser, J.J., *et al.*
The Machine/Job Features mechanism, CHEP2016, San Francisco, USA, 13/10/2016

Melis, K.W.
Performance of the First KM3NeT Detection Unit, Neutrino 2016, London, United Kingdom, 05/07/2016

Prodanović, V.
Thin MEMS films for electron multiplication in a timed photon counter, ICT.OPEN 2016, Amersfoort, The Netherlands, 21/03/2016
Application of ALD alumina membranes for timed photon counter, ALD 2016, Dublin, Ireland, 24/07/2016

Sabato, G., *et al.*
Search for invisible decays of the Higgs boson produced in association with a Z boson at $\sqrt{s}$=13TeV with the ATLAS detector at the LHC, SLAC Summer Institute 2016, Stanford, USA, 17/08/2016
ATLAS Fast Physics Monitoring: TADA, CHEP 2016, San Francisco, USA, 11/10/2016

Satish Kumar, S.
Dynamics of spinning objects in curved space-time, 609 WE-Heraeus-Seminar, Physikzentrum, Bad Honnef, Germany, 15/03/2016

Sinsheimer, J.
The Tynode: a new vacuum electron multiplier for ultrafast oixelised particle detectors, IEEE/NSS Conference, Straatsburg, France, 03/11/2016

Templon, J.A., et al
Analysis of empty ATLAS pilot jobs, CHEP 2016, San Francisco, USA, 12/10/2016

Theulings, A.M.M.G., *et al.*
Design of a miniaturised photomultiplier using Monte Carlo simulations, LEELIS-II workshop, Science Park Congress Center, Amsterdam, The Netherlands, 10/11/2016

Vis, van de, J.M.
Stability of the Higgs, now and in the early universe, Science World, Vancouver, Canada, 23/06/2016

Vries, de, J.A., *for the LHCb collaboration*
Measurement of the Semileptonic CP asymmetry in neutral $b_{d,s}$ mixing, SLAC, Stanford, USA, 17/08/2016

Master Program at Nikhef

All five partner universities (UU, UvA, VU, RU and RUG) offer a two-year Master program focused on the particle physics research done at Nikhef. In the first year, the program typically consists of lectures on Particle and Astroparticle Physics. These lectures include a solid introduction to the Standard Model, physics beyond the Standard Model, cosmology, quantum field theory, general relativity, CP violation, gravitational waves etc., as well as advanced experimental methods like statistical data analysis, particle detection, and a C++ course. The various aspects of experimental particle physics are combined in a semester-long project, and the past academic year a floating (and self-adjusting) muon scintillation detector was built (see Fig. 1). There were a few changes in the program: the VU and UvA MSc programs were officially joined in a 'joint degree' at the beginning of the 2016/2017 academic year. Perhaps as a result, UvA/VU's GRAPPA program also saw a record-setting 33 first year MSc students enter this year, all of these students follow Nikhef's particle physics lectures and about half are expected to also do a research project at Nikhef. The year-long research project is done in the second year of the Master. More than 20 students graduated on Nikhef-research-related projects in 2016 (see table below).

Date	Name	Title	Supervisor	Univ.
15-12-2016	D. Venhoek	Quantum vacua in curved spacetime	W. Beenakker	RUN
01-12-2016	M. Roelfs	On the eigenvalue distribution of the SYK model	K.Papadodimas	RUG
03-11-2016	M. Vermeulen	Calcium Enrichment for the Study of Neutrinoless Double Beta Decay	N. de Groot	RUN
19-09-2016	R. Kappert	Electron identification efficiency in $B_s^0 \rightarrow e\mu$	C.J.G. Onderwater	RUG
15-09-2016	J. Hussels	Molecular hyperfine structure and the electron EDM	S. Hoekstra	RUG
09-09-2016	D. van den Elzen	The link between a vacuum diagram and the renormalization group equation	W. Beenakker	RUN
31-08-2016	D. Leermakers	D*+ meson measurement in proton-proton collisions at $\sqrt{s}$=8 TeV with the ALICE detector	A. Mischke	UU
30-08-2016	T. van Daalen	Bridging the Mass Gap - Probing Compressed Electroweak Supersymmetry at the Large Hadron Collider	W. Verkerke	UvA/VU
26-08-2016	H. van der Pluijm	'On the interpretation of the quantum wave function'	R. Kleiss	RUNn
24-08-2016	R.L. Jaarsma	New Strategy to Extract the CP-violating Phase phi_s from $B_s \rightarrow$ K-K+	R. Fleischer	UvA/VU
16-08-2016	M. Sas	Neutral Mesons & Direct Photon Flow	Th. Peitzmann	UU
12-08-2016	J.M. Goldstein	Reliability of the Parameterised Test of General Relativity on GW150914 and GW151226	C. Van Den Broeck	UvA/VU
01-08-2016	J.G. Bakker	Towards an effective field theory for proton decay	R.G.E. Timmermans	RUG
01-08-2016	F. Oosterhof	Neutron-antineutron oscillations in chiral perturbation theory (Lorentz prize Theoretical Physics 2015/16)	R.G.E. Timmermans	RUG
24-07-2016	J.S. Sinninghe Damsté	Next-to-soft techniques in collider physics	E.L.M.P. Laenen	UvA/VU
18-07-2016	F. Versteegen	Quantum Gravity corrections to the Unruh effect	F. Saueressig	RUNn
15-07-2016	R. Albers	Event shapes in electron-positron annihilation at NNLO accuracy	E.L.M.P. Laenen	UvA/VU
14-07-2016	D. Schenk	Study of Modulations in Radioactive Decay	A.P. Colijn	UvA/VU
07-07-2016	A. Topçuoğlu	CUDA-Based Trigger System For The XENON Experiment	M.P. Decowski	UvA/VU
02-07-2016	J.B. Zonneveld	Dependence of B meson fragmentation fraction ratio fs/fd on centre-of-mass energy	I. van Vulpen	UvA/VU
28-06-2016	C. Ligtenberg	Scattering of polarised W bosons: Measuring the polarised W bosons - Higgs coupling with ATLAS using charged lepton observables	B. van Eijk	UvA/VU
J23-06-2016	M.M.A. Dietze	Proton Radiography: Prototype Development Towards Clinical Application	E. Koffeman	UvA/VU
16-06-2016	M.A. Pronk	The Higgs boson coupling to polarised W bosons in vector boson fusion	B. van Eijk	UvA/VU
08-05-2016	T. Klaver	Construction and analysis of a proton radiography setup using Timepix based time projection chambers for tracking	E. Koffeman	UvA/VU
09-02-2016	M. van Beekveld	Possible Indirect Detection of Dark Matter and its impact on LHC Supersymmetry searches	S. Caron & W. Beenakker	RUN
31-01-2016	J.P. Veenkamp	A Precision Optical Calibration Module for IceCube-Gen2	M.P. Decowski	UvA/VU
- 11-2016	B. Stienen	Generalising LHC Exclusion Limits using Machine Learning	S. Caron	RUN
- 2016	A. Condorelli	A new trigger system for the radio detection	Ch. Timmermans	RUN

Table 1. Partial list of MSc theses written on Nikhef-research related projects, listing only the projects completed at RUG and UvA/VU. A similar number of projects were also completed at UU and RU.

Figure 1. As part of the MSc course 'Nikhef project', students built an autonomous cosmic ray muon scintillator detector that was tested in the waters around Nikhef (Photo credit: Wesley Poland).

MT Apprentices at Nikhef

Date	Name	School	Subject / Title	Supervisor
22-01-2016	Sanne Zijm	MBO ROC van Amsterdam	Third year traineeship	Oscar van Petten
22-01-2016	Keke de Jonge	MBO Leidse instrumentmakers School	Third year traineeship	Michiel Jaspers
28-01-2016	Maarten den Ouden, Teun Westeneng & Deny Albers	Windesheim Hogeschool Zwolle	DOMMan (KM3Net DOM Assembly tool)	Jesse van Dongen
29-01-2016	Lizette Lamers	Fontys Hogeschool Eindhoven	Thermal characterization of the next generation particle tracker at Cern.	Berend Munneke
05-04-2016	Jeroen Frerejean	Hogeschool van Amsterdam	Prototyping of the automated positioning system for read out chips	Rob Walet
24-04-2016	Tessa de Vries	Hogeschool van Amsterdam	Warme CO2 koeling voor VELO modules	Krista de Roo & Patrick Werneke
18-06-2016	Folkert Ravestein	MBO ROC van Amsterdam	KM3NeT VEOC Test Tooling	Oscar van Petten
23-06- 2016	Meeuwis van der Born	Hogeschool van Amsterdam	Realization of the insulation-foam Injection setup for the read out box	Rob Walet
24-06-2016	Jasper van der Werf	Hogeschool van Amsterdam	Design validation of the water-cooling system for the read out electronics	Rob Walet
27-06-2016	Patrick den Dekker	Fontys Hogeschool Eindhoven	Performance of an improved design folded pendulum accelerometer	Eric Hennes
29-06-2016	Kevin Malak	Saxion Hogeschool Enschede	Thermal optimization of the heat distribution and the moisture in the next generation particle tracker at Cern.	Berend Munneke
10-07-2016	Jelle van der Werff	MBO Leidse instrumentmakers School	Second year traineeship	Michiel Jaspers & Dimitri John
14-11- 2016	Max Zoer	Hermann Wesselink College Amstelveen	Snuffelstage	Marco Kraan

Table 1. Apprentices of the Mechanical Technology group.

Grants

The table shows from top to bottom grants awarded in 2016, running grants and completed grants, awarded in earlier years, including their financial envelope, running period and –if not the FOM institute– the name of the Nikhef partner university via which the grants have been obtained. FOM programmes and the LHC upgrade investment grant are not included in the table. More information on some the grants of 2016 can be found in section 'Awards and grants'. The year 2016 has been successful again: 5.7 M€ has been acquired from a variety of funding channels (FOM, NWO, Horizon2020), be it slightly less than in 2015 (7 M€).

Awarded					
leader	**title**	**source**	**period**	**budget (K€)**	**partner**
Merk / Fleischer	Very rare beauty decays: a magnifying glass for quantum physics	FOM/Pr	2017–2021	504	
Van den Brand	FOM Valorisatieprijs 2015	FOM/val	2016–2018	235	VU
Van den Brand	Studies with seismic sensors and long–range communication	HTSM–TKI	2016–2017	230	VU
Du Pree	VIDI: Higgs from Z to A	NWO	2017–2022	800	
Igonkina	VICI: Leptons that have created the world	NWO	2016–2021	1500	
Kooijman	AdG: Chromium (PI: Jennifer Thomas, UCL, UK)	EU/ERC	2016–2021	1109	
Groep	AARC–2: Authentication and Authorisation for Research and Collaboration	EU	2017–2019	236	
Groep	AENEAS: Advanced European Network of E–infrastructures for Astronomy with the SKA	EU	2017–2019	67	
M. de Jong	KM3NeT 2.0 (Preparatory Phase, Nikhef is Coordinator)	EU	2017–2019	786	
Van den Brand	Next generation seismic equipment: Lora enabled seismic sensors	Shell	2016–2017	269	VU
Total				**5,736**	
Running					
leader	**title**	**source**	**period**	**budget (K€)**	**partner**
Igonkina	Search for tau decays to a muon and a photon to understand the lack of anti–matter in the universe	FOM/Pr	2012–2017	400	
Peitzmann	Thermal photon measurements in ALICE: probing the initial temperature of the quark–gluon plasma	FOM/Pr	2012–2017	394	UU
Mulders	Quantum chromodynamics at work in the Higgs sector	FOM/Pr	2012–2017	379	VU
Postma	Keeping track of time during inflation	FOM/Pr	2012–2017	385	
Van Eijk/Bentvelsen	Splitting the Higgs: the connection to dark matter	FOM/Pr	2013–2017	400	
Filthaut/ N. de Groot	Higgs as a portal to new physics	FOM/Pr	2013–2017	396	RU
Mischke	A charming way to disentangle initial– and final–state effects at the LHC	FOM/Pr	2013–2017	270	UU
Ferrari	CP violation in the Higgs sector	FOM/Pr	2014–2018	396	
Saueressig	Black hole dynamics in asymptotically safe quantum gravity	FOM/Pr	2014–2018	398	RU
Van den Broecke	The discovery of gravitational waves with Advanced Virgo and LIGO	FOM/Pr	2015–2019	404	
Peitzmann	Solving the direct photon puzzle in heavy–ion reactions with direct photon interferometry	FOM/Pr	2016–2020	400	UU
Vreeswijk /Laenen	Top spin	FOM/Pr	2016–2020	468	UvA
Linde	Tiling appointment	FOM/v	2013–2017	326	
(Various)	FOM/v projects	FOM/v	2013–2017	425	RU
Van den Brand	Wireless seismic sensors	FOM/IPP	2013–2017	256	
Bentvelsen	Director's budget	FOM	2015–2019	500	
Van den Brand	Field studies with seismic and gravity–gradient sensor networks for gravitational waves physics and oil–and–gas exploration	FOM–HTSM	2015–2019	332	VU
Van Tilburg	VIDI: The high–precision frontier in beauty and charm decays	NWO	2013–2018	800	
Zeune	VENI: Towards realistic predictions for new physics searches at the LHC	NWO	2015–2018	249	

De Vries	VENI: Heart of Darkness: how to unravel the nature of dark matter	NWO	2016–2019	222	
Grelli	VIDI: The hottest place in the Universe	NWO	2015–2019	800	UU
Petraki	VIDI: Deciphering the dark matter code	NWO	2016–2020	800	
Snellings	VICI: A new state of matter: The Quark Gluon Plasma	NWO	2012–2016	1,500	UU
Mischke	VICI: Tomography of the Quark–Gluon Plasma – beauty quarks as a key probe	NWO	2015–2020	1,500	UU
Tunnell	Giving pandas a ROOT to chew on: Modern Big Data front and backends in the hunt for Dark Matter	NLeSC	2015–2016	50	(in kind)
Samtleben	Real–time detection of neutrinos from the distant Universe	NLeSC	2015–2016	50	(in kind)
Caron	iDark: The intelligent Dark Matter Survey	NLeSC	2016–2019	498	RU (250 in–kind)
Verkerke	Automated Parallel Calculation of Collaborative Statistical Models	NLeSC	2016–2019	491	(250 in–kind)
Van Bakel	SENSEIS: Silent sensors for stellar echo's and seismic surveys	STW	2014–2019	495	UT
PDP group	Contribution to the national e–infrastructure	SURFsara	2013–2015	2,895	
P2IP	Knowledge–2–knowledge seminars rondom Single Quantum Imaging	RVO	2015–2016	84	
Van Eijk	HiSparc – 'betadecanen'	Univ.	2014–2017	170	
Laenen	HIGGSTOOLS: The Higgs quest – exploring electroweak symmetry breaking at the LHC	EU	2014–2017	251	
Van den Brand	ELiTES: ET–LCGT Interferometric Telescopes: Exchange of Scientists	EU	2012–2016	32	VU
Hessey / Visser	INFIERI: INtelligent Fast Interconnected and Efficient Devices for Frontier Exploitation in Research and Industry	EU	2013–2017	404	
Mulders	AdG: Quantum Chromodynamics at Work	EU/ERC	2013–2018	2,069	VU
Van der Graaf	AdG: MEMS–made Electron Emission Membranes	EU/ERC	2013–2018	2,396	
Vermaseren	AdG: Solving High Energy Physics Equations using Monte Carlo Gaming Techniques – HEPGAME	EU/ERC	2013–2018	1,739	
Groep	EGI Engage: Engaging the EGI Community towards an Open Science Commons	EU	2015–2018	156	
Groep	EGI Operational security	EGI	2016–2018	128	
Berge / Heijboer	ASTERICS: Astronomy ESFRI and Research Infrastructure Cluster	EU	2015–2018	364	UvA
Van Rijn	HNSciCloud: Helix Nebula – The Science Cloud	EU	2016–2018	233	
Total				**23,347**	

Completed

leader	**title**	**source**	**period**	**budget (K€)**	**partner**
Mischke	Charm content in jets	FOM/Pr	2011–2016	398	UU
Van den Broecke	Binary black holes as laboratories for fundamental physics	FOM/Pr	2011–2016	354	
P. de Jong	Mind the gap! Generalizing dark matter searches at the LHC.	FOM/Pr	2011–2016	264	
P. de Jong	VICI: Between bottom and top: supersymmetry searches with flavour	NWO	2009–2016	1,250	
Van den Brand	Advanced Virgo – Probing the dynamics of spacetime	NWO	2012–2016	2,000	VU
Grelli	VENI: Research into a new state of matter	NWO	2012–2016	250	UU
Igonkina	VIDI: Lepton flavor violation: the key towards a matter dominated universe	NWO	2011–2016	800	
Visser	New Detector Systems for Biomedical Imaging (together with Amolf)	STW	2012–2016	300	
Butter	HYPERGRAV: The last piece of the puzzle: Off–shell hypermultiplets in string theory and complex geometry	EU	2014–2016	183	
De Wit	AdG: Supersymmetry: a window to non–perturbative physics	EU/ERC	2010–2016	1,910	UU
Total				**7,709**	

Personnel

Directie Nikhef			
Bentvelsen	prof.dr.	S.C.M. (Stan)	FOM
Braam van Vloten	MSc.	P. van (Pieter)	FOM
Koffeman	prof.dr.ir.	E.N. (Els)	FOM
Rijn	drs.	A.J. van (Arjen)	FOM
Nikhef Staf Algemeen			
Engelen	prof.dr.	J.J. (Jos)	UvA
Kleuver	drs.	J.J. de (Job)	FOM
Klopping	ir.	R. (Rob)	FOM
Visser	dr.	J. (Jan)	FOM
Wiggers	dr.	L.W. (Leo)	overig
Echtelt	ing.	H.J.B. van (Joost)	FOM
Rijksen		C. (Kees)	FOM
ATLAS			
Alderweireldt	dr.	S.C. (Sara)	FOM
Angelozzi	MSc.	I. (Ivan)	FOM
Bakker	MSc.	P.J.C. (Pepijn)	FOM
Bedognetti	MSc.	M. (Matteo)	FOM
Beemster	MSc.	L.J. (Lars)	overig
Berge	dr.	D. (David)	UvA
Bobbink	dr.	G.J. (Gerjan)	FOM
Brenner	MSc.	L. (Lydia)	FOM
Bruni	MSc.	L.S. (Lucrezia)	UT
Butti	MSc.	P. (Pierfrancesco)	overig
Caron	dr.	S. (Sascha)	RU
Castelijn	MSc.	R.J.A.M. (Remco)	FOM
Chan	BSc	W.S. (Terry)	FOM
Colasurdo	MSc.	L. (Luca)	FOM
Deigaard	dr.	I. (Ingrid)	overig
Duda	dr.	D. (Dominik)	FOM
Fabiani	MSc.	V. (Veronica)	FOM
Ferrari	dr.	P. (Pamela)	FOM
Filthaut	dr.	F. (Frank)	RU
Galea	dr.	C.F. (Cristina)	FOM
Groot	prof.dr.	N. de (Nicolo)	RU
Heijhoff	MSc.	K. (Kevin)	overig
Igonkina	prof.dr.	O.B. (Olga)	FOM
Jong	prof.dr.ir.	P.J. de (Paul)	UvA
Kluit	dr.drs.ir.	P.M. (Peter)	FOM
Konig	dr.	A.C. (Adriaan)	RU
Koutoulaki	MSc.	A. (Afroditi)	FOM
Meyer	MSc.	J. (Jochen)	FOM
Morgenstern	dr.	M.M. (Marcus)	FOM
Nektarijevic	dr.	S. (Snezana)	FOM
Oosterhof - Meij		J.E.G. (Annelies)	FOM
Oussoren	dr.	K.P. (Koen)	overig
Pedraza Diaz	MSc.	L. (Lucia)	overig
Proklova	MSc.	N. (Nadezda)	overig
Rotman	MSc.	D.M. (Daan)	FOM
Sabato	MSc.	G. (Gabriele)	FOM
Schouwenberg	MSc.	J.F.P. (Jeroen)	FOM
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Stichting Natuurkunde Olympiade Nederland: E. de Wolf (board member)
Stichting Physica: E. Koffeman, P. Mulders (treasurer)
Strangeness in Quark Matter conference, Berkeley, 2016: A. Mischke (Member International Advisory Committee)
TERENA Technical Committee (TTC) of the Geant Association: D. Groep (member)
Topsector High Tech Systems & Materials (HTSM) – Advanced Instrumentation / Precision Mechanics Board: J. van den Brand

Topsector High Tech Systems & Materials (HTSM) – Scientific Committee and Roadmap Circuits & Components Committee: N. van Bakel
University of Edinburgh – Higgs Centre: E. Laenen (associate member)
Vereniging Gridforum Nederland: A. van Rijn (treasurer)
Virgo STAC, Scientific & Technical Advisory Committee (EGO): F. Linde
VUB Brussel: N. de Groot (Curriculum advisory board)
Worldwide LHC Computing Grid: J. Templon (overview board)
Young Academy of Europe: A. Mischke (chair)