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FROM SUPERSTRINGS TO THE REAL SUPERWORLD

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School Of Subnuclear Physics Antonino Zichichi, 2019-06-24 In June 2016 a group of 167 physicists from 31 countries have met in Erice to participate in the 54th Course of the International School of Subnuclear Physics The main focus of this year's course has been the new frontiers of Physics in the LHC 2 Era and in all labs the world over as well as the new frontiers in related fields *How And Where To Go Beyond The Standard Model - Proceedings Of The International School Of Subnuclear Physics* Antonino Zichichi, 2007-03-27 This volume is a collection of lectures given during the 42nd Course of the International School of Subnuclear Physics The contributions cover the most recent advances in theoretical physics and the latest results from current experimental facilities In line with one of the aims of the school which is to encourage and promote young physicists to achieve recognition at an international level the students recognized for their research excellence were given the opportunity to publish their work in this volume Their contributions are joined by those from many distinguished lecturers in the field from around the world **Towards New Milestones in Our Quest to Go Beyond the Standard Model** Antonino Zichichi, 2007 This volume is a collection of lectures given by distinguished physicists from around the world covering the most recent advances in theoretical physics and the latest results from current experimental facilities Following one of the principal aims of the School to encourage and promote young physicists to achieve recognition at an international level the students who distinguished themselves for the excellence of their research were given the opportunity to publish their presentations in this volume **Searching For The Unexpected At Lhc And The Status Of Our Knowledge - Proceedings Of The International School Of Subnuclear Physics** Antonino Zichichi, 2013-07-31 Contents Hot Theoretical Topics Testing Strings at the LHC I Antoniadis Entropy Bounds and the Holographic Principle R Bousso Quantum Gravity Needs Supersymmetry S Ferrara and A Marani Composite Weak Bosons Leptons and Quarks H Fritzsch The Negative Function From the Standard Model to Quantum Gravity G t Hooft Effective Actions for High Energy Processes in QCD and in Quantum Gravity L N Lipatov Infrared Instability in QCD P Minkowsky Notes on Strings and Higher Spins A Sagnotti Seminars on Specialized Topics The Mystery of Neutrino Mixings G Altarelli The Alpha Magnetic Spectrometer AMS Experiment in Honor of the 50th Anniversary of the Erice School S C C Ting The QGCW Project Technological Challenges to Study the New World H Wenninger Highlights from Laboratories Start Up and First LHC Results S Bertolucci From the Discovery of Top to the Higgs Boson Search at Fermilab D Denisov Highlights from ALICE P Giubellino Highlights from BNL RHIC M J Tannenbaum Highlights from GRAN SASSO L Votano Special Sessions for New Talents On Combinatorial Expansion of the Conformal Blocks Arising from AGT Conjecture V A Alba Decaying Gravitino Dark Matter N E Bomark Cosmological Constant and Casimir Effect P Burda Higher Spins in D 2 1 A Campoleoni Gluons for Almost Nothing Gravitons for Free J J M Carrasco CP Violation in Charm A New Method G Inguglia Mechanical Resonances in the Read Out Chambers of the ALICE TPC M Mager First Observation of Positronium Hyperfine Splitting Transition Particle Physics at a Frequency Frontier A Miyazaki New Results on Electron Neutrino Appearance in MINOS M Orchanian Measuring $\sin 2\theta_{13}$

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