

New Techniques for Future Accelerators

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Stanislao Stipcich, and
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New Techniques For Future Accelerators

M Carnoy



New Techniques For Future Accelerators:

New Techniques for Future Accelerators III G. Torelli, 2012-12-06 A fundamental step towards gaining a deeper understanding of our world is to increase the resolution of the investigative instruments we use i.e. to increase the energy and hence to decrease the wavelength of the particles which constitute our probes Almost any substantial progress in our understanding of the fundamental laws of Nature has been obtained when a new generation of accelerators has allowed us to achieve a new energy range The new results have generated new questions thus encouraging us to construct new machines to reach even higher energy levels The relative energy gain from one generation of accelerators to the next is progressively increasing The energy gain suggested by the theoretical predictions at the time has usually been much greater than the value allowed by our technical capabilities But this smaller energy gain permitted by accelerator technology improvement has generally been sufficient up until now to bring about a substantial increase in our knowledge Hence a large increase in accelerator energy is very important and we know that this result can essentially be obtained by developing some new device or some new approach

New Techniques for Future Accelerators Mario Puglisi, Stanislao Stipcich, Gabriele Torelli, 2013-03-09 This Seminar has been organized in Erice in the frame of the Eloisatron project activities with the special purpose of bringing together an interdisciplinary group of distinguished physicists with prominent interest in the development of the accelerators Listening to the invited lectures examining the new topics and reviewing ideas for the acceleration of particles to energies beyond those attainable in machines whose construction is under way or is now contemplated are all important moments of this Seminar that will offer to the Italian Physicists a very important opening over the scenario of the accelerators In connection with the Eloisatron project developments future Workshop Seminars are now envisioned each one aimed to a very specific topic in the field of the particle accelerators The Editors v CONTENTS Overview of Linear Collider Studies K Johnsen Principles of Beat Wave Accelerators 15 U de Angelis R Fedele and V G Vaccaro Wake Field Acceleration 29 W Bialowons H D Bremer F J Decker M v Hartrott H C Lewin G A Voss T Weiland P Wilhelm Xiao Chengde and K Yokoya Energy Efficiency and Choice of Parameters for Linear Colliders 45 J Clauss A Two Stage RF Linear Colliders using a Superconducting Drive Linac 67 Schne 11 The Micro Lasertron An Efficient Switched Power Source of mm Wave 1 length Radi at ion 89 R B Palmer Collider Scaling and Cost Estimation 105 R B

New Techniques for Future Accelerators Mario Puglisi, Stanislao Stipcich, Gabriele Torelli, 2014-01-15 ***New Techniques for Future Accelerators II*** Mario Puglisi, Stanislao Stipcich, Gabriele Torelli, 2012-12-06 ***New Techniques for Future Accelerators*** Mario Puglisi, Stanislao Stipcich, Gabriele Torelli, 1987-12-31 **New Techniques for Future Accelerators II** Mario Puglisi, Stanislao Stipcich, Gabriele Torelli, 2014-01-15 ***Reviews Of Accelerator Science And Technology - Volume 10: The Future Of Accelerators*** Weiren Chou, Alexander Wu Chao, 2019-09-09 Volume 10 in the series of the annual journal Reviews of Accelerator Science and Technology RAST will be its final volume Its theme is The Future of Accelerators This volume

together with previous 9 volumes gives readers a complete picture as well as detailed technical information about the accelerator field and its many driving and fascinating aspects This volume has 17 articles The first 15 articles have a different approach from the previous volumes They emphasize the more personal views perspectives and advice from the frontier researchers rather than provide a review or survey of a specific subfield This emphasis is more aligned with the theme of the current volume The other two articles are dedicated respectively to Leon Lederman and Burton Richter two prominent leaders of our community who left us last year

Novel ideas for accelerators, particle detection and data challenges at future colliders Alessandro Tricoli, Patrizia Azzi, Petra Merkel, Vladimir Shiltsev, 2023-07-21

Superconducting Radiofrequency Technology for Accelerators Hasan Padamsee, 2023-02-28 Superconducting Radiofrequency Technology for Accelerators Single source reference enabling readers to understand and master state of the art accelerator technology Superconducting Radiofrequency Technology for Accelerators provides a quick yet thorough overview of the key technologies for current and future accelerators including those projected to enable breakthrough developments in materials science nuclear and astrophysics high energy physics neutrino research and quantum computing The work is divided into three sections The first part provides a review of RF superconductivity basics the second covers new techniques such as nitrogen doping nitrogen infusion oxide free niobium new surface treatments and magnetic flux expulsion high field Q slope complemented by discussions of the physics of the improvements stemming from diagnostic techniques and surface analysis as well as from theory The third part reviews the on going applications of RF superconductivity in already operational facilities and those under construction such as light sources proton accelerators neutron and neutrino sources ion accelerators and crab cavity facilities The third part discusses planned accelerator projects such as the International Linear Collider the Future Circular Collider the Chinese Electron Positron Collider and the Proton Improvement Plan III facility at Fermilab as well as exciting new developments in quantum computing using superconducting niobium cavities Written by the leading expert in the field of radiofrequency superconductivity Superconducting Radiofrequency Technology for Accelerators covers other sample topics such as Fabrication and processing on Nb based SRF structures covering cavity fabrication preparation and a decade of progress in the field SRF physics covering zero DC resistance the Meissner effect surface resistance and surface impedance in RF fields and non local response of supercurrent N doping and residual resistance covering trapped DC flux losses hydride losses and tunneling measurements Theories for anti Q slope covering the Xiao theory the Gurevich theory non equilibrium superconductivity and two fluid model based on weak defects Superconducting Radiofrequency Technology for Accelerators is an essential reference for high energy physicists power engineers and electrical engineers who want to understand the latest developments of accelerator technology and be able to harness it to further research interest and practical applications

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