# Medium-Energy Antiprotons and the Quark-Gluon Structure of Hadrons

Edited by R. Landua, J.-M. Richard, and R. Klapisch

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# **Medium Energy Antiprotons And The Quark Gluon Structure Of Hadrons**

**LL Leslie** 

# **Medium Energy Antiprotons And The Quark Gluon Structure Of Hadrons:**

Medium-Energy Antiprotons and the Quark—Gluon Structure of Hadrons R. Klapisch, R. Landua, J.M. Richard, 2012-12-06 The fourth course of the International School on Physics with Low Energy Antiprotons was held in Erice Sicily at the Ettore Majorana Centre for Scientific Culture from 25 to 31 January 1990 The previous courses covered topics related to fundamental symmetries light and heavy quark spectroscopy and antiproton nucleus interactions. The purpose of this school is to review theoretical and experimental aspects of low energy antiproton physics concerning the guark gluon structure of hadrons and the dynamics of the antiproton nucleon interaction Another important objective is the discussion of future directions of research with low and medium energy antiprotons in the context of future medium energy facilities at CERN and elsewhere These proceedings contain both the tutorial lectures and the various contributions presented during the school by the participants The proceedings have been organised in three sections. The first section is devoted to the theoretical lectures and contributions The selection of the various subjects wants to emphasize the correlation between antiproton nucleon physics and the underlying description in terms of guarks and gluons The second section contains an overview about 35 years of experiments with antiprotons It gives an introduction to the particle physics aspects of the field by outlining the historical development of experiment and theory and by describing the motivation and the results of three recent LEAR experiments in more detail The third section contains most of the contributions of the participants describing in more detail certain aspects of current or planned experiments at LEAR Hadron Physics T. Bressani, A. Filippi, U. Wiedner, 2005-07-29 This volume of the International School of Physics Enrico Fermi is dedicated to Valerio Filippini He devoted his life to physics Valerio Filippini was born in Somma Lombardo Milano on December 8 1958 He obtained the Master Degree in Physics at the University of Pavia in 1982 cum laude After a working parenthesis at an industrial firm he became Research Physicist of INFN Sezione di Pavia in 1988 and was promoted Senior Research Physicist in 1993 He participated to the experiments PS 179 TOFRADUPP and PS 201 Obelix at LEAR CERN FINUDA at LNF and ATHENA at AD CERN His outstanding scientific contributions were provided in the OBELIX and FINUDA experiments Nobody could compete with Filippini in exploiting at best the daily evoluting performances of the computing tools for the needs of the experiments both for on line and off line purposes The FINUDA experiment collected physics data immediately after the roll in thanks to the reliability and simplicity of the on line system designed and assembled by the physicist However he was not only a Clavier Physicist but a complete Scientist he also leaded the Pavia Group in designing and providing advanced detectors and in developing mathematical methods for the analysis of the data His scientific contributions are documented by about 90 publications on refereed international journals about 100 contributions to International Conferences and Workshops and 3 invited talks Low Energy Antiproton Physics - Proceedings Of The First Biennial Conference Per Carlson, A Kerek, S Szilagyi,1991-01-10 The proceedings of this important conference consist of plenary and invited papers published in hard

copy and CD ROM versions The contributed oral and poster presentations are included in the CD ROM version only Hadron Physics 98, Topics On The Structure And Interaction Of Hadronic Systems Sidney Dos Santos Avancini, Erasmo Ferreira, Frederico F De Souza Cruz, 1999-07-05 The study of QCD in the confinement regime poses some of the most difficult problems of fundamental physics at present The mechanism of confinement itself is not described formally and it is hard to investigate the properties of the fundamental theory in the determination of the structures and interactions of hadronic systems. The strong coupling and the extreme non linearity of the theory severely limit the applicability and the extension and generalization of models and methods The area of particle nuclear physics called Hadron Physics deals with the phenomena determined by the confinement regime of QCD The International Workshop on Hadron Physics 98 aimed to provide a framework for the comparative evaluation of different approaches to the difficult problems of QCD and gathered together experts who have been leading developments in hadronic physics in recent years As a central feature of the workshop program there were four sets of lectures 1 An Introduction to Effective Field Theory J F Donoghue 2 Non perturbative QCD A Di Giacomo 3 Diffraction Past Present and Future E Predazzi QCD at High Temperature and Density T Hatsuda These courses provided a pedagogical and updated account of the recent developments that gave support to the discussion of frontier research problems The lecturers did very useful work in the review and description of important lines of research The lectures are reproduced in this book together with invited talks and contributed papers dealing with specific research problems for the use and appreciation of a wider audience Hadron '95 Michael C. Birse, 1996 Physics Briefs OCD as a Theory of Hadrons Stephan Narison, 2004-02-02 This book provides a pedagogical introduction to the .1993 perturbative and non perturbative aspects of quantum chromodynamics QCD Introducing the basic theory and recent advances in QCD it also reviews the historical development of the subject covering pre QCD ideas of strong interactions such as the quark and parton models the notion of colours and the S matrix approach The author then discusses gauge theory techniques of dimensional regularization and renormalization deep inelastic scattering and hard processes in hadron collisions hadron jets and e e annihilations Other topics include power corrections and the technologies of the Shifman Vainshtein Zakharov operating product expansion The final parts of the book are devoted to modern non perturbative approaches to QCD and the phenomenological aspects of QCD spectral sum rules The book will be a valuable reference for graduate students and researchers in high energy particle and nuclear physics both theoretical and experimental Rencontres de Physique de la Vallée D'Aoste M. Greco, 1992 Subnuclear Physics, the First 50 Years: Highlights From Erice To Eln O Barnabei, P Pupillo, Fabio Roversi Monaco, Antonino Zichichi, 2000-08-04 For the Galvani Bicentenary Celebrations the University of Bologna and its Academy of Sciences singled out subnuclear physics as the field of scientific research to be associated with this important event as it would best illustrate for the new generation of students the challenge inherent in fundamental sciences Subnuclear physics was born 50 years ago and has represented ever since the

new frontiers of Galilean science In his opening lecture delivered on the first day of the new academic year Professor Antonino Zichichi analytically reviewed the basic conceptual developments and main discoveries achieved in subnuclear physics during the last 50 years Given the importance of this field of fundamental research Professor Zichichi was invited to expand the contents of his lecture into a book and the outcome is this invaluable volume **Gravitation and Modern** Cosmology N. Sánchez, A. Zichichi, V. de Sabbata, 2013-06-29 Peter Gabriel Bergmann started his work on general relativity in 1936 when he moved from Prague to the Institute for Advanced Study in Princeton Bergmann collaborated with Einstein in an attempt to provide a geometrical unified field theory of gravitation and electromagnetism Within this program they wrote two articles together A Einstein and P G Bergmann Ann Math 39 685 1938 and A Einstein V Bargmann and P G Bergmann Th von Karman Anniversary Volume 212 1941 The search for such a theory was intense in the ten years following the birth of general relativity In recent years some of the geometrical ideas proposed in these publications have proved essential in contemporary attempts towards the unification of all interactions including gravity Kaluza Klein type theories and supergravity theories In 1942 Bergmann published the book Introduction to the Theory of Relativity which included a foreword by Albert Einstein This book is a reference for the subject either as a textbook for classroom use or for individual study A second corrected and enlarged edition of the book was published in 1976 Einstein said in his foreword to the first edition Bergmann's book seems to me to satisfy a definite need Much effort has gone into making this book logically and pedagogically satisfactory and Bergmann has spent many hours with me which were devoted to this end **Technologies for Supercolliders** L. Cifarelli, Thomas Ypsilantis, 2012-12-06 The present volume is based on the proceedings of the 12th Workshop of the INFN ELOISATRON Project held at the Ettore Majorana Centre for Scientific Culture EMCSC Erice frapani Sicily Italy in the period September 15 20 1990 The proceedings deal with the presentation of New Technologies for Supercolliders Three new energy frontiers 16 40 and 200 TeV are now opened up for the future of Subnuclear Physics Basic problems above the Fermi energy are crowding up but no one knows the energy levels needed for their solution This is why the technology for experiments with the new generation of Supercolliders needs to be pursued having in mind the problems which are of common interest in the three energy frontiers. The primary purpose of the Workshop was to contribute towards the highest energy limit in the search for new instruments and new technologies Furthermore the present status and performances of various detector technologies were reviewed. The possible options for a powerful apparatus whose goal would be the discovery of the top Higgs and SUSY particles in a very high energy high rate environment were finally analysed The Workshop was sponsored by the Italian National Institute for Nuclear Physics INFN the Italian Ministry of Education the Italian Ministry of Scientific and Technological Research and the Sicilian Regional Government We are thankful to the staff of EMCSC for their efficient and warm support **Eighth Marcel Grossmann** Meeting, The: On Recent Developments In Theoretical And Experimental General Relativity, Gravitation, And

Relativistic Field Theories - Proceedings Of The Meeting (In 2 Parts) Tsvi Piran, Remo Ruffini, 1999-05-14 Since 1975 the Marcel Grossmann Meetings have been organized to provide opportunities for discussing recent advances in gravitation general relativity and relativistic field theories emphasizing mathematical foundations physical predictions and experimental tests The objective of these meetings is to facilitate exchange among scientists that may deepen our understanding of space time structures and to review the status of ongoing experiments aimed at testing Einstein's theory of gravitation from either the ground or space The Eighth Marcel Grossmann Meeting took place on 22 27 June 1997 at the Hebrew University of Jerusalem Israel The scientific program included 25 plenary talks and 40 parallel sessions during which 400 papers were presented The papers that appear in this book cover all aspects of gravitation from mathematical issues to recent observations and experiments Data Analysis in Astronomy IV R. Buccheri, P. Crane, Vito di Gesù, M.C. Maccarone, L. Scarsi, H.U. Zimmermann, 2012-12-06 In this book are reported the main results presented at the Fourth International Workshop on Data Analysis in Astronomy held at the Ettore Majorana Center for Scientific Culture Erice Sicily Italy on April 12 19 1991 The Workshop was preceded by three workshops on the same subject held in Erice in 1984 1986 and 1988 The frrst workshop Erice 1984 was dominated by presentations of Systems for Data Analysis the main systems proposed were MIDAS AIPS RIAIP and SAIA Methodologies and image analysis topics were also presented with the emphasis on cluster analysis multivariate analysis bootstrap methods time analysis periodicity 2D photometry spectrometry and data compression A general presentation on Parallel Processing was made which encompassed new architectures data structures and languages The second workshop Erice 1986 reviewed the Data Handling Systems planned for large major satellites and ground experiments VLA HST ROSAT COMPASS COMPTEL Data analysis methods applied to physical interpretation were mainly considered cluster photometry astronomical optical data compression cluster analysis for pulsar light curves coded aperture imaging New parallel and vectorial machines were presented cellular machines PAPIA machine MPP machine vector computers in astronomy Contributions in the field of artificial intelligence and planned applications to astronomy were also considered expert systems artificial intelligence in computer vision OCD at 200 TeV L. Cifarelli, Y. Dokshitzer, 2012-12-06 This volume contains the Proceedings of the 17th Workshop of the INFN ELOISATRON Project on QCD at 200 TeV held at the Ettore Majorana Centre for Scientific Culture EMCSC Erice Trapani Italy in the period 11 17 June 1991 The new multi Te V frontiers of Subnuclear Physics are no more beyond our imagination A conceptual design of the highest energy 100 100 TeV proton proton collider the ELOISA TRON already exists Intensive R D studies are on the go to develop the most promising and innovative detector technologies for the highest energy and luminosity QCD Quantum Chromo Dynamics will be the theory to describe the expected Physics scenario of future S upercolliders The purpose of the Workshop was therefore to review the recent status of QCD in High Energy interactions and to discuss the novel aspects of Perturbative and Non Perturbative QCD with special emphasis on future experimental studies at Super High Energy Colliders up to the 200 Te V limit The topics were Classical OCD particle multiplication multiplicities and spectra jet profiles coherence effects etc Hadron interaction cross sections and structure functions at Super High Energies small x behaviour QCD Pomeron hot spots QCD fragmentation models present and future Artificial neural networks in High Energy Physics New theoretical aspects of QCD at Super High Energies instanton induced large cross sections baryon number violation and peculiar multi At the Frontier of Particle Physics Mikhail A. Shifman, 2001 Introduction M Shifman quark production events etc Introducing Boris Ioffe B V Geshkenbein Boris Lazarevich Ioffe is 75 I B Khriplovich ch 1 Pages of the past A top secret assignment B L Ioffe Editor's comments Snapshots from the 1950's Yu F Orlov ch 2 The making of QCD Quantizing the Yang Mills field L D Faddeev The discovery of asymptotic freedom and the emergence of QCD D J Gross Editor's note Recollections on dimensional regularization and related topics C G Bollini Historical curiosity how asymptotic freedom of the Yang Mills theory could have been discovered three times before Gross Wilczek and politzer but was not M Shifman ch 3 From hadrons to nuclei crossing the border S R Beane und weitere ch 4 Chiral dynamics H Leutwyler ch 5 Aspects of chiral symmetry A Smilga ch 6 Nucleons as chiral solitons D Diakonov and V Yu Petrov ch 7 Chiral QCD baryon dynamics U MeiBner ch 8 Hadrons in the 1 N expansion A V Manohar ch 9 QCD inequalities S Nussinov ch 10 Regge poles in QCD A B Kaidalov ch 11 Small x physics and the colored glass condensate L McLerran ch 12 On Gribov s ideas on confinement A Vainshtein ch 13 QCD in a finite volume P van Baal ch 14 Compact variables and singular fields in QCD F Lenz and S W rlen ch 15 Instanton induced effects in QCD E V Shuryak ch 16 Perturbative QCD and the parton structure of the nucleon W K Tung ch 17 Multiloop evolution of the QCD coupling constant and guark masses K G Chetyrkin ch 18 Multi parton amplitudes in QCD Z Bern ch 19 Generalized parton distributions A Radyushkin ch 20 Analytical QCD and multiparticle production V A Khoze W Ochs and I Wosiek ch 21 Space time picture of high energy scattering H G Dosch ch 22 High energy QCD and Wilson lines I Balitsky ch 23 Exclusive processes in quantum chromodynamics and the light cone Fock representation S J Brodsky ch 24 Quark hadron duality M Shifman ch 25 QCD sum rules a modern perspective P Colangelo and A Khodjamirian ch 26 Topics in the heavy quark expansion N Uraltsev ch 27 Weak decays of heavy quarks F De Fazio ch 28 Renormalons and power corrections M Beneke and V M Braun ch 29 Confinement magnetic Z symbol symmetry and low energy effective theory of gluodynamics A Kovner ch 30 Flux tubes and confinement in the Seiberg Witten theory lessons for QCD A Yung ch 31 Millennial messages for QCD from the superworld and from the string M J Strassler ch 32 The center symmetry and its spontaneous breakdown at high temperature K Holland and U J Wiese ch 33 2D model field theories and finite temperature and density V Sch n and M Thies ch 34 Hot and dense QCD A V Smilga ch 35 The condensed matter physics of QCD K Rajagopal and F Wilczek At The Frontier Of Particle Physics: Handbook Of Qcd (In 3 Vols) Misha Shifman, 2001-04-10 This book consists of reviews covering all aspects of quantum chromodynamics as we know it today The articles have been written by recognized experts in this field in honor of the 75th birthday of Professor Boris Ioffe Combining

features of a handbook and a textbook this is the most comprehensive source of information on the present status of QCD It is intended for students as well as physicists both theorists and experimentalists Each review is self contained and pedagogically structured providing the general formulation of the problem telling where it stands with respect to other issues and why it is interesting and important presenting the history of the subject qualitative insights and so on The first part of the book is historical in nature It includes among other articles Boris Ioffe s and Yuri Orlov s memoirs on high energy physics in the 1950 s a note by B V Geshkenbein on Ioffe s career in particle physics and an essay on the discovery of asymptotic freedom written by David Gross

The Long-Lasting Quest for Nuclear Interactions: The Past, the Present and the Future Laura Elisa Marcucci, 2021-01-05

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#### Medium Energy Antiprotons And The Quark Gluon Structure Of Hadrons Introduction

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