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using the off-axis near detector of the Tokai to Kamioka experiment" "Leptogenesis constraints on low-energy neutrino parameters, and a measurement of the charged current zero pion electron neutrino ...

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Anne-Katherine Burns, HONORS, *PBK, BS-PHYS Advisors: Armstrong & Shanahan “ Pion Identification through Machine Learning ... Aubin “ Simulation and Construction of AC Zeeman Microwave Traps. ” 30.

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In particular, depending on the kind of superconductor and the electronic spectrum, the vortices may trap so-called zero modes, spin-1/2 'excitons' of very low (formally, zero) energy. The zero ...

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In 2010, the ALPHA collaboration achieved a first for mankind: the stable, long-term storage of atomic antimatter, a project carried out

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a the Antiproton Decelerator facility at CERN. A crucial element of this observation was a dedicated silicon vertexing detector used to identify and analyze antihydrogen annihilations. This thesis reports the methods used to reconstruct the annihilation location.

Specifically, the methods used to identify and extrapolate charged particle tracks and estimate the originating annihilation location are outlined. Finally, the experimental results demonstrating the first-ever magnetic confinement of antihydrogen atoms are presented. These results rely heavily on the silicon detector, and as such, the role of the annihilation vertex reconstruction is emphasized.

This volume provides detailed insight into the field of precision spectroscopy and fundamental physics with particles confined in traps. It comprises experiments with electrons and positrons, protons and antiprotons, antimatter and highly charged ions together with corresponding theoretical background. Such investigations represent stringent tests of quantum electrodynamics and the Standard model, antiparticle and antimatter research, test of fundamental symmetries, constants and their possible variations with time and space. They are key to various aspects within metrology such as mass measurements and time standards, as well as promising to further developments in quantum information processing. The reader obtains a valuable source of information suited for beginners and experts with an interest in fundamental studies using particle traps.

Intended for graduate students and researchers who plan to use the muon spin rotation and relaxation techniques. A comprehensive discussion of the information extracted from measurements on magnetic and superconductor materials. The muonium centres as well as the muon and muonium diffusion in materials are discussed.

The Eighth International Conference on Laser Spectroscopy (EICOLS '87) was held at the Sunwing Hotel in A.re, Sweden, June

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22-26; 1987. Following the traditions of its predecessors at Vail, Megeve, Jackson Lake, Rottach-Egern, Jasper Park, Interlaken and Maui the intent of EICOLS '87 was to provide a forum for active scientists to meet in an informal atmosphere to discuss recent developments in laser spectroscopy. The scenic and remote location of the conference venue greatly stimulated a lively and relaxed exchange of information and ideas. The conference was attended by 227 scientists from 20 countries including Australia, Austria, Canada, the People's Republic of China, Denmark, Finland, France, the Federal Republic of Germany, Israel, Italy, Japan, The Netherlands, New Zealand, Norway, Poland, the Soviet Union, Sweden, Switzerland, the United Kingdom and the United States. The scientific program included 14 topical sessions with 50 invited talks, ranging in length from 20 to 40 minutes. About 70 additional invited contributions were presented in two evening poster sessions. A third evening session included 4 oral and 18 poster post-deadline presentations.

Channeling, by its nature, involves a wide and disparate range of disciplines. Crystal preparation, material science, accelerator physics, sophisticated theoretical analysis and, of course, channeling itself all must work in concert in a research program. In spite of the gulfs separating some of these activities, researchers have drawn together over the last decade to carry out remarkable experiments in relativistic channeling and channeling radiation. Several informal workshops on high-energy channeling have been held over the years at Aarhus and Fermilab. However, with the vigorous progress in the field in the last several years it became clear that a more formal, comprehensive workshop was needed along with a book that covered the whole spectrum of the new developments, probed the future, and also laid out some of the foundations of the subject. This volume is the outcome of that process. The organization and preparation of both the volume and the workshop owe much to several outstanding scientific committees. The membership of these

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included J. Andersen (Aarhus), S. Baker (Fermilab), B. Berman (G. Washington), G. Bologna (Torino), E. Bonderup (Aarhus), S. Datz (Oak Ridge), J. Forster (Chalk River), F. Fujimoto (Tokyo), W. Gibson (Albany), I. Mitchell (Chalk River), Y. Ohtsuki (Waseda), R. Pantell (Stanford), S. Picraux (Sandia), J. Remillieux (Lyon), A. Saenz (NRL), V. Schegelsky (Gatchina), C. Sun (Albany), H. tiberall (Catholic U.), E. Uggerh ϕ j (CERN), and R. Wedell (Humboldt). Others from across the spectrum of scientific disciplines agreed to serve as session chairmen.

The search for examples of proton radioactivity has resulted in the discovery of a large number of proton emitters in the region 50

Quantum electrodynamics is an essential building block and an integral part of the gauge theory of unified electromagnetic, weak, and strong interactions, the so-called standard model. Its failure or breakdown at some level would have a most profound impact on the theoretical foundations of elementary particle physics as a whole. Thus the validity of QED has been the subject of intense experimental tests over more than 40 years of its history. This volume presents an up-to-date review of high precision experimental tests of QED together with comprehensive discussion of required theoretical work. Contents: High Precision Tests of QED — An Overview (T Kinoshita & D Yennie)Construction of Four-Dimensional Quantum Field Models: ϕ^4 and QED4 (K Ito)Critical Review of the Theory of QED (N Nakanishi)QED for Nonrelativistic Systems and High Precision Determination of a (T Kinoshita & G Lepage)Test of QED by High Energy Electron-positron Collisions (U Martyn)Analytic Evaluation of Sixth-order Contributions to the Electron's g Factor (E Remiddi, R Roskies & M Levine)Theory of the Anomalous Magnetic Moment of the Electron-Numerical Approach (T Kinoshita)Anomalous Magnetic Moment of Single Electrons and Positrons: Experiment (R Van Dyck, Jr.)Cavity Shifts of Measured Electron Magnetic Moments (G

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Gabrielse, J Tan & L Brown)Theory of the Muon Anomalous Magnetic Moment (T Kinoshita & W Marciano)The Muon $g - 2$ Experiments (F Farley & E Picasso)Theory of Hydrogenic Bound States (J Sapirstein & D Yennie)Atomic Hydrogen Hyperfine Structure Experiments (N Ramsey)Lamb Shift Experiments (F Pipkin)Precision Measurements in Positronium (S Chu & A Mills, Jr)Muonium (V Hughes & G ZuPutlitz)Helium Fine Structure (F Pichanick & V Hughes)Appendix: Historical Review and Bibliography of QED (K Yokoyama & R Kubo) Readership: Atomic and particle physicists. Keywords:Quantum Electrodynamics;Quantum Field Models;Lamb Shift Experiments;Positronium;MuoniumReview: " The Kinoshita volume provides a detailed account of the main theoretical and experimental advances in testing quantum electrodynamics during the last two decades ... This new collection, beautifully edited and annotated by Kinoshita ... a comprehensive technical and historical reference for the field. " Stanley J Brodsky Physics Today, 1992

This volume presents multidisciplinary treatments of important areas and new developments within precision physics. It concentrates on new topics and those not treated in the previous volumes about the precision physics of simple atoms, all published in LNP. For example, it concentrates on the proton structure and its effects on the energy levels, on simple molecules, on atoms somewhat more complicated than hydrogen (such as lithium), on exotic atoms and atoms with exotic nuclei.

This series, established in 1965, is concerned with recent developments in the general area of atomic, molecular and optical physics. The field is in a state of rapid growth, as new experimental and theoretical techniques are used on many old and new problems. Topics covered include related applied areas, such as atmospheric science, astrophysics, surface physics and laser physics. Articles are written by distinguished experts who are active in their research

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fields. The articles contain both relevant review material and detailed descriptions of important recent developments. · Reviews timely fields of atomic physics · Articles written by world leaders in those fields · In depth review of the subject with relevant literature · Suitable for researchers in other fields · Only book series of this kind

This book develops a credible scenario for interstellar exploration and colonization. In so doing, it examines: • the present situation and prospects for interstellar exploration technologies; • where to go: the search for habitable planets; • the motivations for space travel and colonization; • the financial mechanisms required to fund such enterprises. The final section of the book analyzes the uncertainties surrounding the presented scenario. The purpose of building a scenario is not only to pinpoint future events but also to highlight the uncertainties that may propel the future in different directions. Interstellar travel and colonization requires a civilization in which human beings see themselves as inhabitants of a single planet and in which global governance of these processes is conducted on a cooperative basis. The key question is, then, whether our present civilization is ready for such an endeavor, reflecting the fact that the critical uncertainties are political and cultural in nature. It is written in such a way as to allow the non-professional reader to become part of the debate on the future of space programs.

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