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V. B. Smirnov
(Eds.)

Precision Physics of Simple Atomic Systems



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Massimo Inguscio, Leonardo Fallani



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Precision Physics of Simple Atomic Systems Savely G. Karshenboim, Valery B. Smirnov, 2014-01-15 *Hydrogen Atom III, the International Conference on Precision Physics of Simple Atomic Systems* International Conference on the Precision Physics of Simple Atomic Systems. 2004, Rio de Janeiro, 2005 **The Hydrogen Atom** S.G. Karshenboim, F.S. Pavone, F. Bassani, M. Inguscio, T.W. Hänsch, 2013-10-03 For more than a century studies of atomic hydrogen have been a rich source of scientific discoveries These began with the Balmer series in 1885 and the early quantum theories of the atom and later included the development of QED and the first successful gauge field theory Today hydrogen and its relatives continue to provide new fundamental information as witnessed by the contributions to this book The printed volume contains invited reviews on the spectroscopy of hydrogen muonium positronium few electron ions and exotic atoms together with related topics such as frequency metrology and the determination of fundamental constants The accompanying CD contains in addition to these reviews a further 40 contributed papers also presented at the conference Hydrogen Atom 2 held in summer 2000 Finally to facilitate a historical comparison the CD also contains the proceedings of the first Hydrogen Atom conference of 1988 The book includes a foreword by Norman F Ramsey **The International Conference on the Precision Physics of Simple Atomic Systems (PSAS 2002)** International Conference on the Precision Physics of Simple Atomic Systems. 2002, Sankt-Peterburg, Valery B. Smirnov, 2002

Precision Physics of Simple Atoms and Molecules Savely G. Karshenboim, 2007-12-07 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 **Hydrogen Atom III** ,2005 **International Workshop on Precision Physics of Simple Atomic Systems (PSAS 2006)** ,2007 *The International Conference on the Precision Physics of Simple Atomic Systems (PSAS 2002)* ,2002 **International Workshop on Precision Physics of Simple Atomic Systems (PSAS 2006)** Savely G. Karshenboim,2007 **Atomic Physics: Precise Measurements and Ultracold Matter** Massimo Inguscio,Leonardo Fallani,2013-09-19 This book traces the evolution of Atomic Physics from precision spectroscopy to the manipulation of atoms at a billionth of a degree above absolute zero Quantum worlds can be simulated and fundamental theories such as General Relativity and Quantum Electrodynamics can be tested with table top experiments

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detectors **Relativistic Quantum Theory of Atoms and Molecules** Ian P Grant, 2007-04-15 This book is intended for physicists and chemists who need to understand the theory of atomic and molecular structure and processes and who wish to apply the theory to practical problems As far as practicable the book provides a self contained account of the theory of relativistic atomic and molecular structure based on the accepted formalism of bound state Quantum Electrodynamics The author was elected a Fellow of the Royal Society of London in 1992 *Canadian Journal of Physics* ,2009 **Laser Physics at the Limits** Hartmut Figger, Dieter Meschede, Claus Zimmermann, 2013-06-29 Laser physics has always been driven by a genuinely scientific quest to extend existing limits limits of physical knowledge and limits of physical methods Enhancing precision sensitivity and resolution has been an essential topic of this evolution Experiments and concepts of laser physics have also earned a central place in modern physics More than 100 years after the invention of quantum physics subtleties of light matter interaction can be beautifully illustrated through the application of lasers an invaluable highlight of our current presentation of modern microscopic physics The scientific advancement of physics is impossible without the ingenuity of experimenters and of theoreticians Among those Theodor H nsch has oc cupied a commanding position for many decades now contributing numerous original and fundamental contributions to the field of laser physics This vol urne was thus initiated on the occasion of his 60th birthday It demonstrates the influence of his scientific activities at present and during the recent past Current developments in fields such as atomic elocks precision measurements of fundamental constants nonlinear optical effects Bose Einstein condensa tion and atomic quantum engineering underline the virtue of concepts and results derived in his laboratories

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