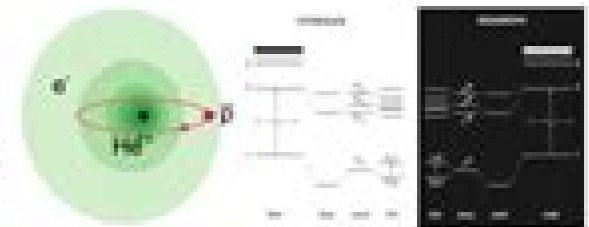


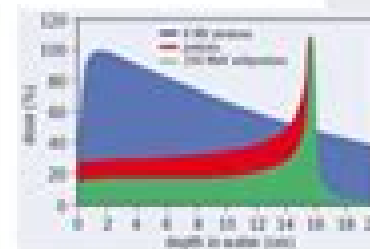
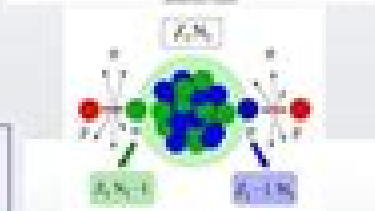
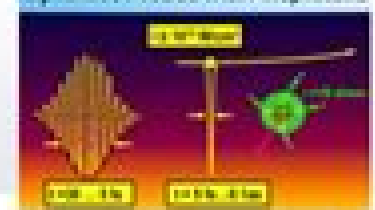
Low Energy Antiproton Physics at FLAIR

E. Widmann CAMOP, Plans for a Next-Generation Low-Energy Antiproton Facility, Physica Scripta 72 (2005) C51-C56

- Spectroscopy for tests of CPT and QED
 - Antiprotonic atoms (pbar-He, pbar-p), antihydrogen
- Atomic collisions
 - Sub-femtosecond correlated dynamics: ionization, energy loss, antimatter-matter collisions
- Antiprotons as hadronic probes
 - X-rays of light antiprotonic atoms: low-energy QCD
 - X-rays of neutron-rich nuclei: nuclear structure (halo)
 - Antineutron interaction
 - Strangeness -2 production
- Medical applications: tumor therapy



Sub-Femtosecond Correlated Dynamics Probed with Antiprotons



Low Energy Antiproton Physics

Dieter Grzonka



Low Energy Antiproton Physics:

Physics at LEAR with Low-Energy Cooled Antiprotons Robert Klapisch, Ugo Gastaldi, 2012-12-06 The Workshop on Physics at LEAR with Low Energy Cooled Antiprotons was held in Erice May 9-16 1982 at the Ettore Majorana Centre for Scientific Culture in the framework of the International School of Physics of Exotic Atoms The Workshop was organized by a committee composed of R Armenteros D Bugg P Dalpiaz U Gastaldi K Kilian R Klapisch P Lefevre D M6hl S Polikanov B Povh and J M Richard It was attended by 101 physicists from 44 institutions and 14 countries representing one third of the LEAR users This Workshop was the first general meeting of the LEAR community after the approval of the CERN Low Energy Antiproton Ring facility and of the experiments scheduled there for the initial period of operation ii to review the facility and the progress in its construction and to discuss the conditions of its operation iii to discuss future developments of the facility and of the experimental programme These Proceedings contain the papers presented in Erice both orally and in the poster session which displayed also contributions from colleagues who unfortunately could not attend the Workshop The reports have been ordered in four sessions following the programme of the meeting The CERN low energy antiproton facility is presented in Section I

Low Energy Antiproton Physics Dieter Grzonka, 2005-11-15 This conference brought together about 150 physicists and covered the entire field of research with antiprotons from atomic physics at low energies to hadronic reactions at high energies The conference demonstrated that this field is evolving with new physics being studied at existing and planned facilities

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

Low Energy Antiproton Physics - Proceedings Of The Third Biennial Conference Gabriel Kernel, Peter Krizan, Marko Mikuz, 1995-09-15 These proceedings cover the latest results in low energy antiproton physics The volume consists of invited talks and invited contributions on the following subjects nucleon antinucleon interactions antiprotons in astrophysics meson spectroscopy strangeness and charm production antinucleon nucleus interactions fundamental symmetries antiproton facilities atomic physics with antiprotons antihydrogen facilities and experiments

Low Energy Antiproton Physics

Dieter Grzonka, 2005 *Low Energy Antiproton Physics* Dieter Grzonka, 2005 Low Energy Antiproton Physics C.

Cicalo, 1999 *First Biennial Conference on Low Energy Antiproton Physics, Manne Siegbahn Institute, Stockholm, Sweden, 2-6 July 1990* Per Carlson, 1991

Physics with Antiprotons at LEAR in the ACOLE Era Ugo Gastaldi, 1985

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 quark 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 quarks 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

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