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Atomic Physics With Heavy Ions

Highly charged ions are used for investigations related to fundamental research and to more applied fields such as controlled nuclear fusion driven by heavy ions and its diagnostics, ion-surface interaction, physics of hollow atoms, x-ray lasers, x-ray spectroscopy, spectrometry of ions in storage rings and ion traps, biology, and medical therapy.

Atomic Physics with Heavy Ions (Springer Series on Atomic ...

This book is devoted to one of the most active domains of atomic physic- atomic physics of heavy positive ions. During the last 30 years, this terrain has attracted enormous attention from both experimentalists and theoreticians. On the one hand, this

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interest is stimulated by rapid progress in

Atomic Physics with Heavy Ions | Heinrich Beyer | Springer

The book guides the reader to the research frontiers in atomic physics with heavy ions, giving a concise image of the advanced experimental and theoretical methods exemplified by the most recent results.

Atomic Physics with Heavy Ions | SpringerLink

Work Description. The book guides the reader to the research frontiers in atomic physics with heavy ions, giving a concise image of the advanced experimental and theoretical methods exemplified by the most recent results. It ranges from accelerator and ion trap technology, over the important and fundamental details in the understanding of strongly bound far-electron systems, to radiative and collisional phenomena of these objects.

Atomic Physics with Heavy Ions (Mar 01, 2012 edition ...

Atomic Physics with Heavy Ions-Heinrich F. Beyer 2012-12-06
This book is devoted to one of the most active domains of atomic physics- atomic physics of heavy positive ions. During the last 30 years, this terrain has attracted enormous attention from both experimentalists and theoreticians. On the

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Accelerator-based atomic physics with stored highly charged ions at heavy ion storage rings have been developed for more than two decades [1], [2], [3]. There are still large unexplored fields by employment of cooled and stored highly charged ions (HCI), such as precision tests of QED effects and electron correlation in strong Coulomb fields and even super-critical strong fields [4], [5], and studies of the properties of radioactive highly charged ions by atomic physics methods [6].

HIAF: New opportunities for atomic physics with highly ...

The physics of ion-atom collisions embodies a large number of phenomena and spans a long historical development. The

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interesting range of energies goes from the meV to GeV regions, the incident particles may be protons as well as uranium ions. Here we will concentrate on the description of inner shell processes in collisions of heavy ions.

Heavy-Ion Atomic Physics—Theoretical - NASA/ADS

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High-energy nuclear physics studies the behavior of nuclear matter in energy regimes typical of high-energy physics. The primary focus of this field is the study of heavy-ion collisions, as compared to lighter atoms in other particle accelerators. At sufficient collision energies, these types of collisions are theorized to produce the quark-gluon plasma. In peripheral nuclear collisions at high energies one expects to obtain information on the electromagnetic production of leptons and ...

High-energy nuclear physics - Wikipedia

RHIC is the first machine in the world capable of colliding heavy ions, which are atoms which have had their outer cloud of electrons removed. RHIC primarily uses ions of gold, one of the heaviest common elements, because its nucleus is densely packed with particles.

RHIC | Physics of the Relativistic Heavy Ion Collider

An overview of new opportunities for atomic physics using highly charged ions and radioactive heavy ions at HIAF is given. A schematic view of the HIAF complex. The facility includes a SECR source,...

(PDF) HIAF: New opportunities for atomic physics with ...

The strong fields carried by heavy, highly-charged ions are their outstanding attributes for atomic and applied physics research.

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Together with anticipated high beam intensities a range of important experiments is envisioned.

GSI - SPARC

Atomic Physics with Heavy Ions | SpringerLink Work Description. The book guides the reader to the research frontiers in atomic physics with heavy ions, giving a concise image of the advanced experimental and theoretical methods exemplified by the most recent results. It ranges from accelerator and ion trap technology, over the

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"The book guides the reader to the research frontiers in atomic physics with heavy ions, giving a concise image of the advanced experimental and theoretical methods exemplified by the most recent results.

Atomic physics with heavy ions (Book, 1999) [WorldCat.org]

SPARC: Atomic physics, quantum electrodynamics, ultra-high electro-magnetic fields studies with beams of highly-charged heavy ions. The international FAIR project is promising the highest intensities for relativistic beams of stable and unstable heavy nuclei, combined with the strongest available electromagnetic fields, for a broad range of experiments.

GSI - Introduction

The feat was achieved by Philip Walker at the University of Surrey and colleagues, who used state-of-the-art isotope separation techniques to isolate and study the ions. Their research could soon shed new light on how nuclear processes in dying stars create the heavy elements we observe in the universe today.

Neutron-rich tantalum offers a view of how heavy elements ...

In these reactions, heavy ions such as lead or bismuth are bombarded with projectile ions that have a mass number of more than 40. In these reactions, the kinetic energy of the

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projectile is absorbed, resulting in a compound nucleus that is much less excited.

Superheavy elements - Physics World

Highly charged ions are used for investigations related to fundamental research and to more applied fields such as controlled nuclear fusion driven by heavy ions and its diagnostics, ion-surface interaction, physics of hollow atoms, x-ray lasers, x-ray spectroscopy, spectrometry of ions in storage rings and ion traps, biology, and medical therapy.

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The presence of bound electrons makes electronic transitions possible. For few-electron heavy ions, these are in general in the X-ray region, although fine and hyperfine interactions can also induce smaller splittings. The main idea of the GF is to send light from a laser beam head-on to a PSI beam with a high relativistic factor γ .

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