

PHYSICS OF HIGHLY CHARGED IONS

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[Request PDF on ResearchGate | Physics of Highly Charged Ions |](#) In this chapter we shall consider the radiative processes in which either the initial or the final state of an ion, or both, belong

[Physics of Highly Charged Ions \(eBook, 1985\)](#) [WorldCat.org]

The physics of highly charged ions has become an essential ingredient of many modern research fields, such as x-ray astronomy and astrophysics, controlled thermonuclear fusion, heavy ion nuclear physics, charged particle accelerator physics, beam-foil spectroscopy, creation of xuv and x-ray lasers, etc.

[Atomic Physics of Highly Charged Ions - Proceedings of the ...](#)

The study of highly charged ions involves various branches of physics. It was the aim of the conference to bring together physicists working in atomic collisions and spectroscopy, in plasma physics and astrophysics, as well as in solid-state and ion-source physics. About 220 scientists from 20 nations attended the conference, indicating the strong worldwide interest and the vitality of research in this field.

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B. Atomic physics at the extremes: Highly charged ions. Since the epoch of reionization roughly 13–109 years ago atomic matter in the Universe mostly appears as ions (Shull, Smith, and Danforth, 2012). Now the majority of the chemical elements can be found as highly charged ions. Following big-bang nucleosynthesis and 4–108 years of expansion, reionization was driven by strong radiation. [Physics of highly charged ions \(Book, 1985\)](#) [WorldCat.org]

[Introduction.- 1.1 General Overview.- 1.2 Basic Features of Highly Charged Ions and Their Interactions.- 1.3 Highly Charged Ions in Astrophysics.- 1.4 Highly Charged Ions in Controlled Thermonuclear Fusion Research.- 1.5 Highly Charged Ions in Accelerator-Based Physics and Other Research Fields.- 1.6 Scope of the Book.- 2. Structure and Spectra of Highly Charged Ions.- 2.1 General Properties](#) [physics of highly charged ions | Download eBook pdf,](#)

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The growth of interest in the physics of highly charged ions, experienced especially in the last ten to fifteen years, has stimulated a dramatic increase in research activity in this field and resulted in numerous significant achievements of both fundamental and practical importance. This book is devoted to the basic aspects of the physics of highly charged ions. Its principal aim is to (PDF) **Highly charged ions: Optical clocks and applications** ...

Progress in calculating the properties of selected highly charged ions has allowed the evaluation of systematic shifts and the prediction of the sensitivity to the "new physics" effects. This

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Highly charged ions: Multiply-ionized atoms for clocks ...

Working with highly charged ions. Charged-up atoms are hard to produce and control. At one of the facilities dedicated to this purpose, the Electron Beam Ion Trap (EBIT) at the Lawrence Livermore

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