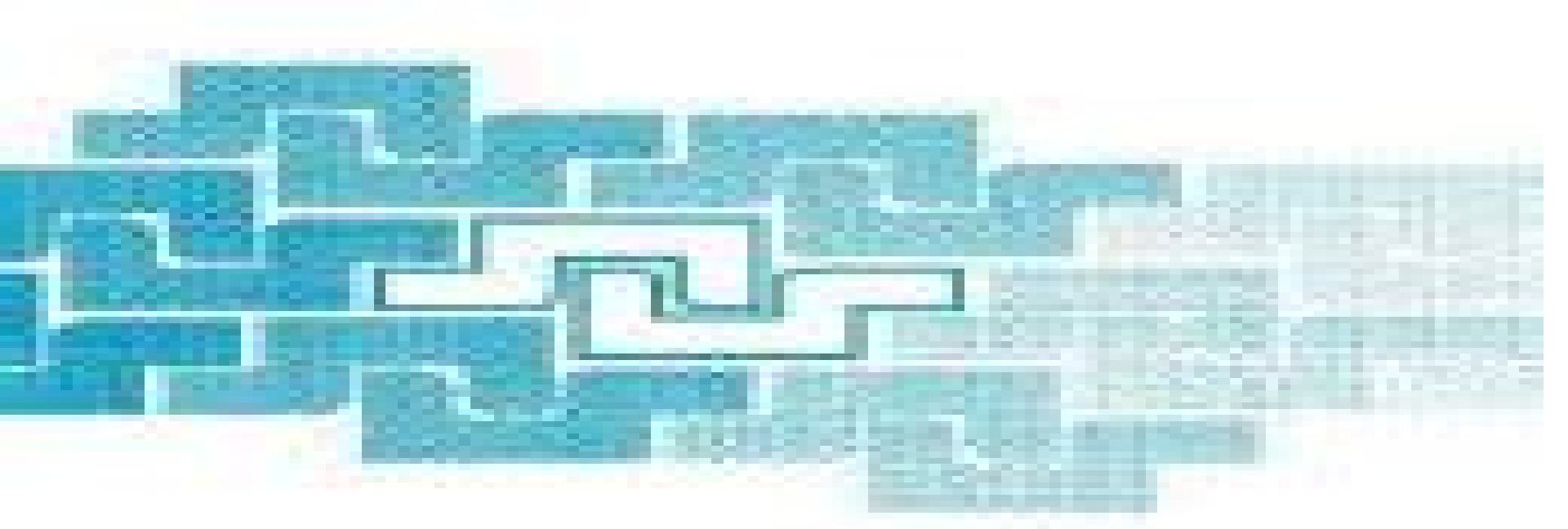




Super-Intense Laser-Atom Physics

Edited by

Bernard Foaux and Kenneth Raghunath

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Super Intense Laser Atom Physics

Bernard Piraux, Kazimierz Rzazewski



Super Intense Laser Atom Physics:

Super-Intense Laser-Atom Physics IV H.G. Muller, M.V. Fedorov, 1996-05-31 Atoms in strong radiation fields are interesting objects for study and the research field that concerns itself with this study is a comparatively young one. For a long period after the discovery of the photoelectric effect it was not possible to generate electromagnetic fields that did more than perturb the atom only slightly and first order perturbation theory could perfectly explain what was going on at those low intensities. The development of the pulsed laser has changed this state of affairs in a rather dramatic way and fields can be applied that really have a large or even dominant influence on atomic structure. In the latter case we speak of super intense fields. Since the interaction between atoms and electromagnetic waves is characterized by many parameters other than the light intensity such as frequency, ionization potential, orbit time etc it is actually quite difficult to define what is exactly meant by the term super intense. Obviously the term does not have an absolute meaning and intensity should always be viewed in relation to other properties of the system. An atom in a radiation field can thus best be described in terms of various ratios of the quantities involved. The nature of the system sometimes drastically changes if the value of one of these parameters exceeds a certain critical value and the new regime could be called super intense with respect to that parameter.

Super-Intense Laser—Atom Physics A. L'Huillier, Bernard Piraux, Kazimierz Rzazewski, 2012-12-06 The rapid development of powerful pulsed lasers is at the origin of a considerable interest in studying the response of an atom, a molecule or a solid to a strong electromagnetic field. It is now possible to produce at the laboratory scale ultra short 13 pulses with a duration of 100 femtoseconds, 10 second and a power of the order 10^{12} of 1 terawatt 10^{10} Watt. Under these conditions very high peak intensities may be obtained and electric fields exceeding typical electron binding fields in atoms are generated. The interaction of an atom or a molecule with such electromagnetic fields has a highly non linear character which leads to unexpected phenomena. Amongst them above threshold ionization ATI i.e. the absorption of additional photons in excess of the minimal number necessary to overcome the ionization potential and its molecular counterpart above threshold dissociation. ATD generation of very high harmonics of the driving field, stabilization of one electron systems in strong fields. These processes were the main topics of two international meetings which were held in 1989 and 1991 in the United States under the common name SILAP Super Intense Laser Atom Physics.

Super-Intense Laser-Atom Physics Bernard Piraux, Kazimierz Rzazewski, 2001-04-14 The study of atomic systems exposed to super intense laser fields defines an important area in atomic, molecular and optical physics. Although the concept of super intense field has no absolute meaning it is now usual to call an electromagnetic field super intense when it exceeds the atomic binding field. In the case of the simplest atomic system hydrogen in its $1s$ ground state this occurs above an intensity of 3.5×10^{16} Watt/cm² which is the atomic unit of intensity. Presently at the laboratory scale and in extremely short and tightly focussed laser pulses the electric field strength 1.6×10^{12} reaches peak values which are of the order of 10^{10} Watt/cm² in the infrared frequency regime the prospect being that such

peak intensities may be reached within a few years in a regime of much higher frequencies XUV or even X The interaction of such electromagnetic fields with an atomic system has a highly non linear character which has led to the observation of totally unexpected phenomena There are three fundamental processes which have marked the beginning of an intensive research in the field of super intense laser atom physics SILAP These processes which only involve one atomic electron are the so called above threshold ionisation i e Super-Intense Laser-Atom Physics Bernard Piraux, Kazimierz

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W. F. Drake, 2023-02-09 Comprises a comprehensive reference source that unifies the entire fields of atomic molecular and optical AMO physics assembling the principal ideas techniques and results of the field 92 chapters written by about 120 authors present the principal ideas techniques and results of the field together with a guide to the primary research literature carefully edited to ensure a uniform coverage and style with extensive cross references Along with a summary of key ideas techniques and results many chapters offer diagrams of apparatus graphs and tables of data From atomic spectroscopy to applications in comets one finds contributions from over 100 authors all leaders in their respective disciplines Substantially updated and expanded since the original 1996 edition it now contains several entirely new chapters covering current areas of great research interest that barely existed in 1996 such as Bose Einstein condensation quantum information and cosmological variations of the fundamental constants A fully searchable CD ROM version of the contents accompanies the handbook **Atoms, Solids, and Plasmas in Super-Intense Laser Fields** Dimitri Batani, 2001-09-30

Proceedings of the 30th Course of the International School of Quantum Electronics on Atoms Solids and Plasmas in Super Intense Laser Fields held 8-14 July in Erice Sicily **Atoms, Solids, and Plasmas in Super-Intense Laser Fields** Dimitri Batani, Charles J. Joachain, S. Martellucci, Arthur N. Chester, 2012-12-06 The recent development of high power lasers delivering femtosecond pulses of $10^{20} \text{ W cm}^{-2}$ intensities up to 10 W cm^{-2} has led to the discovery of new phenomena in laser

interactions with matter At these enormous laser intensities atoms and molecules are exposed to extreme conditions and new phenomena occur such as the very rapid multi photon ionization of atomic systems the emission by these systems of very high order harmonics of the exciting laser light the Coulomb explosion of molecules and the acceleration of electrons close to the velocity of light These phenomena generate new behaviour of bulk matter in intense laser fields with great potential for wide ranging applications which include the study of ultra fast processes the development of high frequency lasers and the investigation of the properties of plasmas and condensed matter under extreme conditions of temperature and pressure In particular the concept of the fast ignitor approach to inertial confinement fusion ICF has been proposed which is based on the separation of the compression and the ignition phases in laser driven ICF The aim of this course on Atom Solids and Plasmas in Super Intense Laser fields was to bring together senior researchers and students in atomic and molecular physics laser physics condensed matter and plasma physics in order to review recent developments in high intensity laser matter interactions The course was held at the Ettore Majorana International Centre for Scientific Culture in Erice from July 8 to July 14 2000 NATO Advanced Research Workshop on Super-Intense Laser-Atom Physics NATO.,OTAN.,1993 **Atoms in Intense Laser Fields** C. J. Joachain,N. J. Kylstra,R. M. Potvliege,2012 A unified account of the rapidly developing field of high intensity laser atom interactions suitable for both graduate students and researchers Advances in Multi-Photon Processes and Spectroscopy S. H. Lin,2008 This book presents the latest developments and issues in both experimental and theoretical studies of multi photon processes and the spectroscopy of atoms ions and molecules in physics chemistry biology and material science It contains review papers suitable for both active researchers and non experts who wish to enter the field Special attention is paid to the recent progress of non linear photon-matter interactions in atoms molecules and interfaces XUV soft X ray high order harmonic generation in attosecond regime high order harmonic generation sum frequency generation four wave mixing spectroscopy and molecular orientation with combined electrostatic and intense non resonant laser fields

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