



# Super-Intense Laser-Atom Physics

Edited by

Bernard Piraux and Kazimierz Rzażewski

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# Super Intense Laser Atom Physics Nato Science Series II

**A. L'Huillier, Bernard Piraux, Kazimierz  
Rzazewski**



## **Super Intense Laser Atom Physics Nato Science Series II:**

**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 12 of 1 terawatt 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, 2001-03-31 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 16 2 ground state this occurs above an intensity of  $3.5 \times 10^{16} \text{ W cm}^{-2}$  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 16 18 2 reaches peak values which are of the order of  $10^{10} \text{ W cm}^{-2}$  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 i the so called above threshold ionisation i e **Springer Handbook of Atomic, Molecular, and Optical Physics** Gordon 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 *Handbook of Laser Technology and Applications* Chunlei Guo, Subhash Chandra Singh, 2021-06-23 This comprehensive handbook gives a fully updated guide to lasers and laser technologies including the complete range of their technical applications The first volume outlines the fundamental components of lasers their properties and working principles Key Features Offers a complete update of the original bestselling work including many brand new chapters Deepens the introduction to fundamentals from laser design and fabrication to host matrices for solid state lasers energy level diagrams hosting materials dopant energy levels and lasers based on nonlinear effects Covers new laser types including quantum cascade lasers silicon based lasers titanium sapphire lasers terahertz lasers bismuth doped fiber lasers and diode pumped alkali lasers Discusses the latest applications e g lasers in microscopy high speed imaging attosecond metrology 3D printing optical atomic clocks time resolved spectroscopy polarization and profile measurements pulse measurements and laser induced fluorescence detection Adds new sections on laser materials processing laser spectroscopy lasers in imaging lasers in environmental sciences and lasers in communications This handbook is the ideal companion for scientists engineers and students working with lasers including those in optics electrical engineering physics chemistry biomedicine and other relevant areas **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 electro magnetic 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 *American Book Publishing Record*, 2001 **Exactly**

**Solvable Models In Many-body Theory** Norman H March, Giuseppe G N Angilella, 2016-05-27 The book reviews several theoretical mostly exactly solvable models for selected systems in condensed states of matter including the solid liquid and disordered states and for systems of few or many bodies both with boson fermion or anyon statistics Some attention is

devoted to models for quantum liquids including superconductors and superfluids Open problems in relativistic fields and quantum gravity are also briefly reviewed The book ranges almost comprehensively but concisely across several fields of theoretical physics of matter at various degrees of correlation and at different energy scales with relevance to molecular solid state and liquid state physics as well as to phase transitions particularly for quantum liquids Mostly exactly solvable models are presented with attention also to their numerical approximation and of course to their relevance for experiments

**Laser Physics**, 2009      **Molecular Spectroscopy and Quantum Dynamics** Roberto Marquardt,Martin Quack,2020-09-18 Molecular Spectroscopy and Quantum Dynamics an exciting new work edited by Professors Martin Quack and Roberto Marquardt contains comprehensive information on the current state of the art experimental and theoretical methods and techniques used to unravel ultra fast phenomena in atoms molecules and condensed matter along with future perspectives on the field Contains new insights into the quantum dynamics and spectroscopy of electronic and nuclear motion Presents the most recent developments in the detection and interpretation of ultra fast phenomena Includes a discussion of the importance of these phenomena for the understanding of chemical reaction dynamics and kinetics in relation to molecular spectra and structure      *Summaries of Papers Presented at the Quantum Electronics and Laser Science Conference*, 1997      *The British National Bibliography* Arthur James Wells,2001      *Subject Guide to Books in Print*, 2001      □□□□□□□□□□□□□□□□□□□□ , 1997      Physics Briefs ,1992      **NATO Advanced Research Workshop on Super-Intense Laser-Atom Physics** NATO.,OTAN.,1993      **Advances and Perspectives in Quantum Optics** Vladimír Bužek,Antonino Messina,A. Napoli,2008      *Nonlinear Optics* ,2002      *X-Ray Lasers 2002* Jorge J. Rocca,James Dunn,Szymon Suckewer,2002-11-11 Advances in the development of x ray lasers and other sources of intense x ray radiation are discussed Topics include transient x ray lasers capillary discharge x ray lasers optical field ionization x ray lasers x ray free electron lasers high order harmonic sources characterization of x ray lasers and x ray optics as well as applications of x ray lasers including x ray interferometry      **Comptes rendus de l'Académie des sciences** ,2000      Directory of Published Proceedings ,1998

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