

Fundamentals of Laser Interactions II



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Condition: New. Publisher/Verlag: Springer, Berlin | Proceedings of the Fourth Meeting on Laser Phenomena Held at the Bundessportheim in Obergurgl, Austria, 26 February 4 March 1989 | At this Obergurgl seminar, theoreticians and experimentalists discussed recent developments in laser interactions. This volume contains the texts of invited lectures and abstracts of contributed papers. The main topics discussed are: multiphoton ionization above-threshold ionization collisions in strong fields atoms in intense fields chaos in radiative interactions electron correlations in multiphoton processes Rydberg atoms in external fields other laser interactions. Thus a broad and up-to-date account of laser interactions is given which will be of interest to scientists, engineers and graduate students. | Resonance multiphoton ionization under strong fields.- On the Problem of the "New" structure in multiphoton ionization introduced by short-pulse high intensity lasers.- Resonant multiphoton ionization of xenon and atomic hydrogen in intense sub-ps-laser pulses.- Multiphoton detachment from negative ions.- Multiphoton processes in intense laser fields.- Harmonic generation in rare gases at high laser intensity.- Ionization of atoms by an intense Co2 laser.- Studies of strong-field effects in multiphoton subpicosecond excited plasmas: Soft X-ray fluorescence and propagation.- Theoretical aspects of multiphoton ionization and harmonic generation.- Eigenchannel r-matrix calculation of photoionisation processes in strontium.- Resonant multiphoton excitation of autoionizing rydberg states and planetary atoms.- Electron Correlations in Time and Space.- Correlations in multiply excited atoms.- Strong field coheime effects in the processes of photoionization from rydberg levels.- Observation of electronic wave packets with short laser pulses.- Many photon absorption in a near-classical regime.- Localization properties of rydberg atoms in the presence of noisy microwave fields.- Diamagnetism of the Hydrogen Atom in the Quasi-Landau-Regime.- Atomic interactions in superintense, high-frequency laser fields.- Photoionization and dissociation of the triatomic hydrogen molecule.- Multiphoton ionisation of xenon with tunable subpicosecond laser pulses.- Role of counter-rotating wave dynamics...

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