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Theory of Multiphoton Processes: Physics Today: Vol 42, No 3

Theory of Effective Hamiltonians with Stationary and Time-Dependent Interactions. Faisal, Farhad H. M. Pages 143-181

Theory of Multiphoton Processes | Farhad H.M. Faisal

A short history of multiphoton physics Perturbative few-photon processes: 1931: Theory of two-photon absorption (M. GÅppert-Mayer) 1961: Second harmonic generation in laser-crystal interaction Two-photon ionization of atoms Nonperturbative multiphoton era: 1979: Discovery of above-threshold ionization 1988: Observation of high-order harmonic ...

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Multiphoton ionization rates for H₂ immersed in an intense linearly polarized laser field are calculated using the recently developed R-matrix Floquet theory of molecular multiphoton processes.

R-matrix-Floquet theory of molecular multiphoton processes

Multiphoton absorption and ionization processes are a powerful tool in the study of atomic and molecular systems. High power lasers commonly used in multiphoton processes not only increase the signal to noise ratio thereby making processes of very high order observable, but also provide extremely high energy and quantumÅ-

Theory of resonantly enhanced multiphoton processes in

Multiphoton Processes 23 "A Model for Isotope Separation via Multiphoton Molecular Photodissociation," S. Mukamel and J. Jortner, Chem. Phys. Lett. 40, 150-156 (1976).

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