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# Ultrafast Dynamics Of Quantum Systems Physical Processes And Spectroscopic Techniques Nato Science Series B

**ultrafast dynamics beyond the molecular movie: dynamics of ...** - ultrafast dynamics beyond the molecular movie: dynamics of bands and bonds during a photoinduced phase transition c. w. nicholson 1\*, a. lücke2, w. g. schmidt2, m. puppin , l. rettig1, r. ernstorfer 1, m. wolf\* ultrafast nonequilibrium dynamics offer a route to study the microscopic interactions that **ultrafast dynamics of charge transfer and photochemical ...** - ultrafast ta spectroscopy is one of the most commonly used ultrafast time-resolved spectroscopy for the investigation of the energy transfer and charge carrier dynamics in photochemical systems.[11,12] figure 1a presents a schematic diagram of an ultrafast ta spectroscopy measurement. generally, the absorbance of the sample at a specified **ultrafast laser dynamics and interactions in complex materials** - ultrafast laser dynamics and interactions in complex materials aaron e. patz iowa state university follow this and additional works at:<https://lib.dr.iastate.edu> part of the condensed matter physics commons, materials science and engineering commons, and themechanics of materials commons **ultrafast dynamics of vibrational symmetry breaking in a ...** - ultrafast dynamics of vibrational symmetry breaking in a charge-ordered nickelate martin, alessandra lanzara and robert a. kaindl giacomo coslovich, alexander f. kemper, sascha behl, bernhard huber, hans a. bechtel, takao sasagawa, michael c. doi: 10.1126/sciadv.1600735 **direct imaging of ultrafast lattice dynamics** - silicon, showing dynamics of high-pressure phases and melt. x-ray phase-contrast imaging provided direct snapshots of shock propagation in the target and re-vealed elastic features. these simultaneous, ultrafast measurements allowed resolution of silicon crystalline phases, compression, and density before and after multiple shock features. **ultrafast dynamics of photoexcited c60** - the ultrafast dynamics of solid c60 following optical excitation are discussed. excitation into the lowest optical band using pulses 12 fs in duration centered at 620 nm results in coherent vibrational motion as well as nonexponential relaxation dynamics dominated by interactions between photoexcitations.

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