

## HOW TO DESCRIBE PUMP-PROBE EXPERIMENTS IN QUANTUM MATERIALS

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Georgetown University, Washington, D.C. USA I will describe both the challenges, and how to address them, when theoretically modelling ultrafast pump-probe experiments in strongly correlated materials and in materials with strong electron-phonon coupling. After providing an introduction, I will focus on two case studies: (i) examining the response at picosecond times of chargedensity waves with ultrashort pulses that drive the electrons and (ii) examining the response on femtosecond times for nonresonant electronic Raman scattering.

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2:00 PM

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