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Vibrational modulation of electronic transitions in Copper Germanate: a theoretical model

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The dynamics of complex materials can be conveniently investigated through pump-probe techniques. Here we present a simple quantum theoretical model that is used to interpret the results of a recently performed pump-probe experiment on Copper Germanate [1]. In this context, in order to study the electron-phonon coupling in the material, lattice vibrations are excited by an infrared pump pulse and d-d electronic transitions are probed with a visible pulse.

[1] A. Marciniak, et al. arXiv:2003.13447

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