

ULTRAFAST ELECTRON AND PHONON DYNAMICS IN 2D QUANTUM MATERIALS

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In my talk, I will illustrate what information on electron-phonon interaction we can gain from time- and angle-resolved photoemission studies of 2D quantum materials. Examples include the thermalization of a non-equilibrium carrier distribution in a 2D Dirac cone, the decay of photo-generated valley polarizations in single-layer semi-conducting transition metal dichalcogenides, and the transient modulation of a Dresselhaus-type spin splitting in a Weyl semimetal.

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