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【631】 Determining photoemission time scales in CuTe

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With an established model[1,2], we determine the attosecond photoemission time delay in the charge density wave material CuTe, by means of spin- and angle-resolved photoemission spectroscopy. While accessing absolute time delay information by measuring spin polarization as a function of binding energy, with its moderate correlation strength, this result constitutes a part of the study on the connection between correlation strength and time delay, along with SARPES measurements done on noncorrelated Cu and strongly correlated BSCCO.

Furthermore, we present a pump-probe ARPES experiment which visualizes the coherent phonon oscillation which is characteristic of a CDW state.

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