Workshop on <br> "Theoretical challenges: simulating materials out of equilibrium"



Contribution ID: 23

Type: not specified

## Time-resolved ARPES from first principles and applications

Friday 3 June 2016 11:30 (25 minutes)

Time resolved ARPES (angle-resolved photoemission spectroscopy) has emerged as a crucial tool to investigate quantum properties of materials driven out of equilibrium. An example is the observation of selective valley excitation in transition metal dichalcogenides. I will introduce the theory at the basis of our first-principles approach and illustrate its application on a selection of systems.

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