Workshop on
 "Theoretical challenges: simulating materials out of equilibrium"



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Time-resolved ARPES from first principles and applications

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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.

Presenter: Dr DE GIOVANNINI, Umberto (Universidad del País Vasco)