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Controlling Functionalities in Quantum Oxides

Beyond their traditional role as dielectrics, complex oxides are fascinating quantum materials that show a multitude emerging behaviours, such as ferroic, memristive and topological effects. Enabling and controlling transformations between electronic, magnetic and chemical states in oxide heterostructures is key to potential memory, logic and sensoric functions. We will discuss examples how collective electronic properties at constraint dimensions give rise to emerging quantum states and novel ferroic functionalities.

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room P 603, Thu. 09.05.2019, 15:15

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