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## Entanglement and Quantum Information Classifiers for Quantum Phases of Matter

*Tuesday, 5 September 2023 17:20 (20 minutes)*

We will first review the role of entanglement for the identification and the classification of quantum phases of matter of low dimensional strongly correlated quantum systems to then move to describe some specific quantum information classifiers, in particular quantum Fisher information for local and local operators, to outline to what extent they can describe also multipartite entanglement and topological phases.

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**Session Classification:** A nice and passionate journey in low-dimensional systems