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Tracking Topological Phase Transition using Fidelity, Uhlmann quantity and Fidelity Susceptibility

giovedì 20 Maggio, ore 15.00 presso l'aula B, DiFC, via Archirafi 36

Tutti gli interessati, in particolare **studenti** e **dottorandi**, sono invitati a partecipare.

Abstract

Topological phase transitions are studied both at zero and finite temperature using information theoretic quantities such as fidelity, fidelity susceptibility and a quantity closely related to the Uhlmann factor. We will also see how the topological features gradually smeared out as the temperature of the system increases. Furthermore, we will also discuss the non-commutativity of the two limits -- thermodynamic and zero-Temperature limit-- of the fidelity susceptibility