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The zoo of states in the 2D Hubbard model

Tuesday 24 September 2024 17:10 (30 minutes)

We use a combination of real-space Hartree-Fock theory and functional renormalization group to unbiasedly construct a phase diagram of the 2D Hubbard model in Temperature and Doping. We are able to detect various spin- and charge order patterns including Néel, stripe and spiral order. I will give a short summary of the method followed by a presentation of our current results and a possible outlook for further applications.

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Session Classification: Parallel B