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The role of local repulsion in superconductivity in the Hubbard-Holstein model

Chungwei Lin, Bingnan Wang, Koon Hoo Teo

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Highlights

- There exists an optimal Boson energy for superconductivity in Hubbard-Holstein model.
- The electron-Boson coupling is essential for superconductivity, but the same coupling can lead to polaron insulator, which is against superconductivity.
- The local Coulomb repulsion can sometimes enhance superconductivity.

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