

Unitary Renormalization Group Approach to the Anderson model

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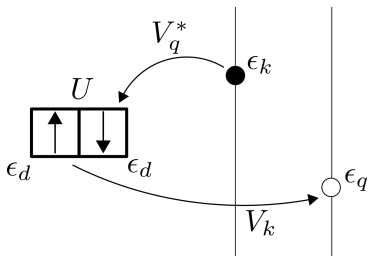
Outline

- ▶ The model
- ▶ Motivation
- ▶ URG formalism
- ▶ Results

Single-Impurity Anderson Model

$$\mathcal{H} = \sum_{k\sigma} \epsilon_k \hat{n}_{k\sigma} + \sum_{k\sigma} \left[V(k) c_{k\sigma}^\dagger c_{d\sigma} + \text{h.c.} \right] + \epsilon_d \sum_{\sigma} \hat{n}_{d\sigma} + U \hat{n}_{d\uparrow} \hat{n}_{d\downarrow}$$

kinetic energy hopping between impurity and bath single-impurity energy impurity-impurity repulsion



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