

# Quantum Walks

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Two types of quantum (random) walks, discrete-time (coined) or continuous-time, were introduced as the quantum mechanical extension of the corresponding classical random walks in connection with quantum computing and have been extensively studied over the last few years, see [1] for reviews. In this lecture, we first consider limit theorems [2], absorption problems [3], the localization [4] for discrete-time quantum walks on regular lattices, and then deal with limit theorems [5], uniform mixing property [6], quantum probabilistic approach [7] for continuous-time quantum walks on some graphs.

## References

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