



筑波大学

University of Tsukuba

Condensed Matter Seminar 物性論セミナー

2024年12月3日 (火), Dec. 3 (Tue.) 2024

15:00-16:00

自然系学系棟D棟3階: D301号室

Institutes of Natural Sciences Bldg. D 301

[\[Map\]](#)

Recent progress in Quantum Computing

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Abstract:

The significant development of quantum devices in recent years has opened a path to realize quantum computation, with the aid of quantum error mitigation techniques, whose accuracy is comparable to state-of-the-art classical algorithms even without implementation of quantum error correction. We review the recent development in the area of quantum computing, in both experiments and theories. This includes the random circuit sampling task often considered to claim quantum advantage, error counteraction measures to fully exemplify noisy devices, and effort to realize quantum error correction.

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