# **Special Issue**

# Simulation of Open Quantum Systems

# Message from the Guest Editors

Open quantum systems, which interact with their surrounding environment, play a crucial role in various areas of quantum science and technology. The importance of simulating open quantum systems is arowing for the following two main reasons: first, to enhance our understanding of the fundamental physics governing these systems in complex scenarios, including, for instance, many-body open systems or structured quantum systems, such as networks of superconducting gubits; second, improving our comprehension of noise in quantum computation, which can be described as an open system of many gubits, is particularly relevant in the near-term quantum computation era with tens or hundreds of gubits. Submissions to this issue are broadly solicited on the simulation of open quantum systems using both classical and quantum methods. While our focus is predominantly on Markovian dynamics due to its widespread use and simplicity, manuscripts addressing the simulation of non-Markovian open systems are also welcome.

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# Message from the Editor-in-Chief

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