PUBLICATIONS

- Simulating a measurement-induced phase transition for trapped ion, (accepted in PRA) arxiv: 2106.03769 (2021) https://arxiv.org/abs/2106.03769
- Accessing different topological classes and types of Majorana edge states in coupled superconducting platforms using perturbations, arXiv:2003.08299
 (2020) link
- Photo-induced SU(3) topological material of spinless fermions, Phys. Rev. B 95, 165425 (2017). link
- Boosted one-dimensional superfluids on a lattice, Annals of Physics, Vol. 384, 71-84 (2017) <u>link</u>

ONGOING PROJECTS

- Complexity of sampling bosonic random walkers on a lattice in the presence of weak interactions, collaboration with Los Alamos National Lab (US), Oxford University (UK) and University of New Mexico (US). (to be submitted soon)
- Efficient simulation of robust observables in noisy quantum systems,
 collaboration with Macquarie University (Australia) and University of New
 Mexico (US).
- · Disorder-free localization and error propagation in the Kitaev honeycomb model, collaboration with University of Sydney (Australia) and Oxford University (UK).