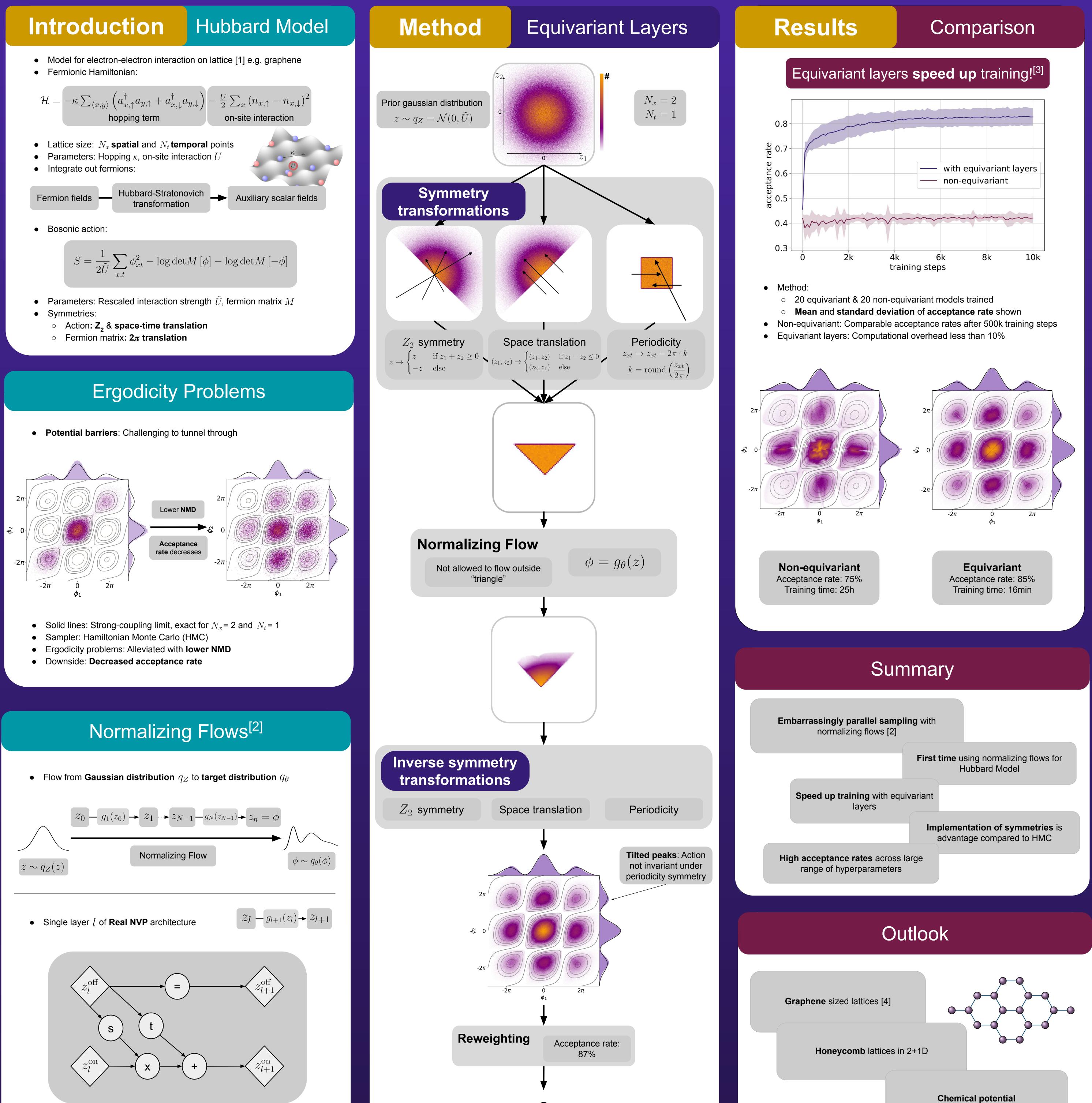
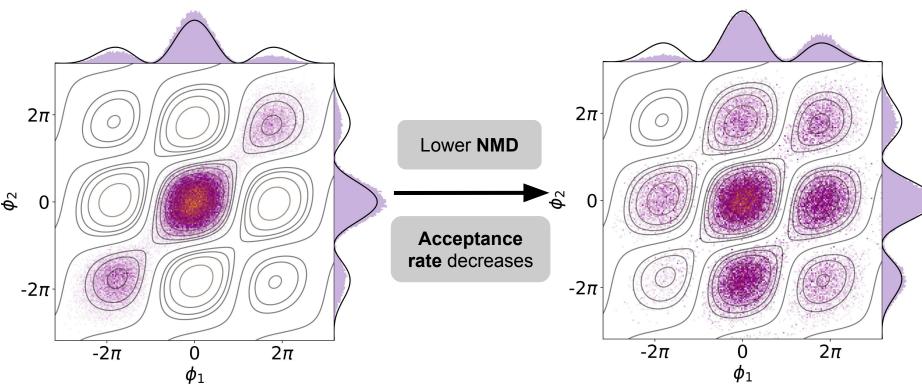
# Equivariant Normalizing Flows for the Hubbard Mode

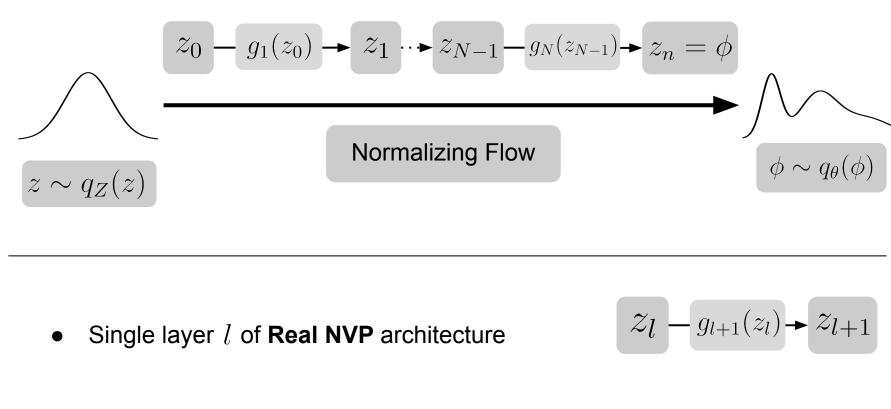


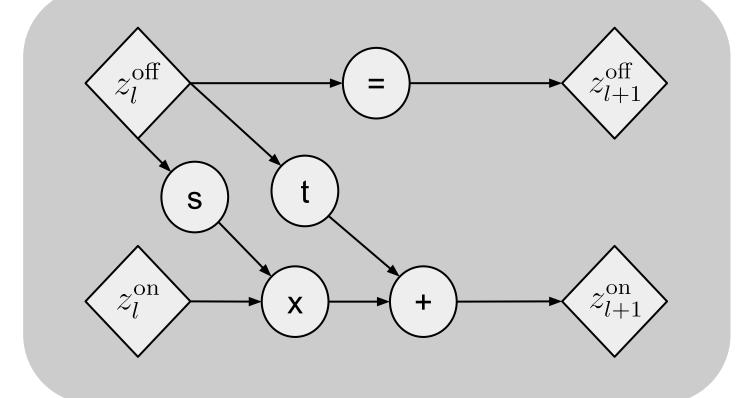
ISDISCIPI INAR\ UNIVERSITÄT BONN

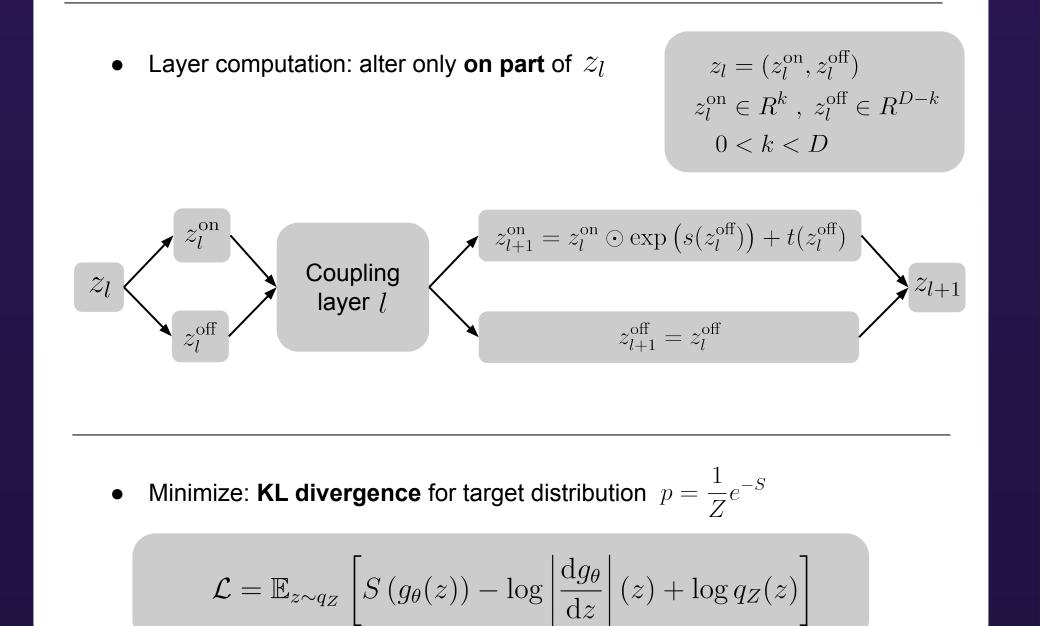
## Janik Kreit, D. Schuh, E. Berkowitz, L. Funcke, T. Luu, K. Nicoli, M. Rodekamp

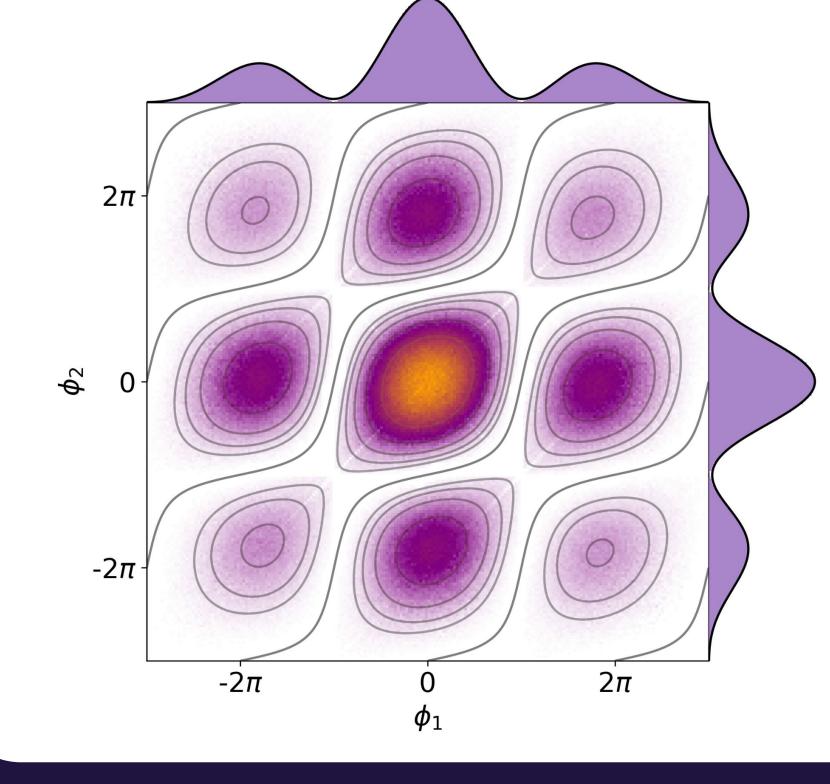












Various **observables**, e.g. correlators

### References

- [1] J. Wynen et al., "Avoiding Ergodicity Problems in Lattice Discretizations of the Hubbard Model", PRB **100**, 075141 (2019)
- [2] D. Rezende, S. Mohamed, "Variational Inference with Normalizing Flows", PMLR 37, 1530-1538 (2015)
- [3] G. Kanwar et al., "Equivariant flow-based sampling for lattice gauge theory", PRL 125, 121601 (2020)
- [4] M. Rodekamp et al., "Mitigating the Hubbard Sign Problem with Complex-Valued Neural Networks", PRB 106, 125139 (2022)