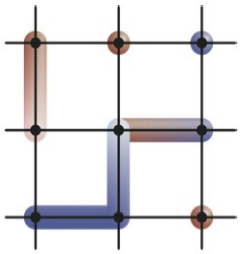

FOR 5522 Collaboration Meeting on

Quantum Circuits

UNIVERSITÄT GÖTTINGEN

January 29/ 30, 2025, Alfred-Hessel Saal, Pauliner Kirche, Göttingen
Papendiek 14 37073 Göttingen

Scientific Organizers: F. Heidrich-Meisner, Göttingen, T. Prosen. Ljubljana

Wednesday, January 29, 2025

Time	
2:15pm	Welcome F. Heidrich-Meisner
2:30pm	Invited Talk: *Quantum circuits models for full eigenstate thermalization* Pieter Claeys, MPI PKS
3:30pm	Coffee Break
4pm	Invited talk: *Physical theory of two-stage relaxation: Purity and OTOC* Cheryne Jonay, University of Ljubljana
5pm	Break
5:20pm	Teaser talks (4+4 mins): 1) Anastasia Enckell, Göttingen: *Simulating the time evolution of the Gross-Neveu model using a quantum circuit* 2) Marcel Cech, Tübingen: *Dynamical phases in monitored kinetically constrained quantum dynamics* 3) Kadir Ceven, Göttingen: *Thouless time in a spin-1/2 XX ladder* 4) Taisanul Haque, Göttingen: *Entanglement, Quantum Energy Teleportation and Beyond* 5) Heiko Menzler, Göttingen: *Tuning of slow dynamics in quantum East Hamiltonians motivated by Graph theory* 6) Haixin Qiu, Göttingen: *Floquet drives in dipolar spin ensembles* 7) Arturo Perez Romero, Göttingen: *Comprehensive analysis of electronic relaxation in 1d KLM* 8) Emil Reiter, Göttingen: *Constrained dynamics in synthetic dimensions*
6:25pm	Discussion
7pm	Dinner at Restaurant Apex

Thursday, January 30, 2025

Time	
9am	Invited Talk: *Ergodicity breaking transition in East Circuits: From dynamical localization to quantum Ruelle resonances* Tomaz Prosen, University of Ljubljana
10am	*Dynamics of the stochastic Floquet-East model* Cecilia de Fazio, Tübingen
10:30	Coffee Break
11am	*Non-linear classification capability of quantum neural networks due to quantum metastability* *Mario Boneberg, Tübingen*
11:30am	Invited talk: *Entanglement transitions of free fermions in unitary circuit games* Raul Morral Yepes, TUM
12:30pm	Lunch & Discussion
2:30pm	End of event