

Georg-August-Universität Göttingen,  
Friedrich-Hund-Platz 1, 37077

Scientific Organizers: F. Heidrich-Meisner, S. Kehrein, ITP Göttingen

June 13/14, 2024, Location: Institute for Theoretical Physics, Seminar room SR4, 4<sup>th</sup> floor

## Program

<b>Thursday, 06/13</b>		
1pm – 4:30pm Room SR 4, A.04.101	For those who registered: <b>RDM training workshop</b> by Göttingen Campus eResearch Alliance Joint event of DFG FOR 5522, SFB 1073, SFB 1633, RTG 2455	For everyone else: <b>Scientific Discussions</b>
4:30pm Social Room ITP (next to SR4)	<b>Coffee Break and Welcome</b>	
5pm – 6pm	<b>Invited: Jorge Kurchan, ENS Paris:</b> <i>From the Eigenstate Thermalization Hypothesis to Free Probability to k-Designs.</i>	
7pm	Dinner at Restaurant Gaudi (for those who signed up)	
<b>Friday, 06/14</b>		
9am	<b>Round of introductions</b>	
9:10am	<b>Teaser talks I &amp; Discussion: SYK Physics &amp; NFLs</b> <i>tba — General Intro to SYK Physics</i> T1) Anastasia Enckell, UGOE: Quantum impurities with SYK bath T2) Rishabh Jha, UGOE: <i>Robust chaotic and thermodynamic properties of non-Fermi liquid</i> T3) Jan Louw, UGOE: <i>The maximally chaotic SYK models</i> T4) Haixin Qiu, UGOE: <i>Real-time thermalization and transport in quenched Yukawa-SYK model</i> T5) Santiago Salazar, UGOE: <i>Quench Dynamics of a Mixed SYK Model</i>	
10:15am	<b>Coffee Break &amp; Workshop Photo</b>	

10:45am	<b>Heiko Menzler, Universität Göttingen:</b> Krylov localization as a probe for ergodicity breaking	
11:15am	<b>Kadir Ceven, Universität Göttingen:</b> <i>Quantum chaos in the spin-1/2 XX ladder</i>	
12:00pm – 1:30pm	Lunch and discussions	
1:30pm	<b>Teaser Talks II: Boundaries of Q-Chaos</b> T6) Marcel Cech, Tübingen: <i>Collision Models: From glassy dynamics to machine learning of quantum channels</i> T7) Lukas Peinemann, UGOE: <i>Spin-1/2 XX ladder with disorder</i> T8) Emil Reiter, UGOE: <i>Constrained dynamics in synthetic dimensions</i>	
2pm	<b>Invited: Lev Vidmar, Josef Stefan Institute Ljubljana</b> <i>Ergodicity breaking transitions</i>	
3pm	<b>Coffee Break</b>	
3:30pm	<b>Discussion: Open Questions in Quantum Chaos and Ergodicity</b>	
ca. 4:30pm	<b>End, Discussions</b>	

Invited talks: 45mins plus 15mins discussion

Regular talks: 20mins + 10mins discussion

Teaser talks: max 5mins + 5 mins discussion

Lunch on Friday: We will go to MPI PS: Cash only!