

New Directions in Far from Equilibrium Integrability and Beyond: April 29 – May 3, 2024

**Events for:
Monday, April 29th - Friday, May 3rd**

Monday, April 29th

8:30am **Workshop: Breakfast**

Title: Breakfast

9:30am **Workshop: Paul Fendley - SCGP 103**

Speaker: Paul Fendley

Title: Free fermions in disguise

10:30am **Workshop: Coffee Break - SCGP Cafe**

Title: Coffee Break

11:00am **Workshop: Andre Leclair - SCGP 103**

Speaker: Andre Leclair

Title: The sinh-Gordon model beyond the self-dual point and freezing transitions in disordered systems

12:00pm **Workshop: Lunch - SCGP Cafe**

Title: Lunch

1:15pm **Workshop: Balázs Pozsgai - SCGP 103**

Speaker: Balázs Pozsgai

Title: Quantum circuits and real time dynamics with free fermions in disguise

2:30pm **Workshop: Francisco Alcaraz - SCGP 103**

Speaker: Francisco Alcaraz

Title: General Free Fermionic and Parafermionic Quantum Chains

3:30pm **Workshop: Tea Time - SCGP Cafe**

Title: Tea Time

4:00pm **Workshop: Charlotte Kristjansen - SCGP 103**

Speaker: Charlotte Kristjansen

Title: Integrable and non-integrable quenches from AdS/CFT

5:00pm **Workshop: Group Discussion - SCGP 103**

Title: Group Discussion

Tuesday, April 30th

8:30am **Workshop: Breakfast**

Title: Breakfast

9:30am **Workshop: Alexander Altland - SCGP 103**

Speaker: Alexander Altland

Title: Tensor product random matrix theory

10:30am **Workshop: Coffee Break - SCGP Cafe**

Title: Coffee Break

11:00am **Workshop: Aditi Mitra - SCGP 103**

Speaker: Aditi Mitra

Title: A Universal Model of Floquet Operator Krylov Space

12:00pm **Workshop: Lunch - SCGP Cafe**

Title: Lunch

1:15pm **Workshop: Jedediah Pixley - SCGP 103**

Speaker: Jedediah Pixley

Title: Controlling Chaos with Measurements and Feedback

2:30pm **Workshop: Rosario Fazio - SCGP 103**

Speaker: Rosario Fazio

Title: Measurement induced transition in long-range systems

3:30pm **Workshop: Tea Time - SCGP Cafe**

Title: Tea Time

4:00pm **Workshop: Tzu-Chieh Wei - SCGP 103**

Speaker: Tzu-Chieh Wei

Title: A measurement-only approach for entanglement transitions in a projective gauge-Higgs model

5:00pm **Workshop: Group Discussion - SCGP 103**

Title: Group Discussion

Wednesday, May 1st

8:30am **Workshop: Breakfast**

Title: Breakfast

9:30am **Workshop: Ana Maria Rey - SCGP 103**

Speaker: Ana Maria Rey

Title: Quantum Simulation of Dynamical Phases of BCS Superconductors

10:30am **Workshop: Coffee Break - SCGP Cafe**

Title: Coffee Break

11:00am **Workshop: William Witczak-Krempa - SCGP 103**

Speaker: William Witczak-Krempa

Title: The Fate of Entanglement

12:00pm **Workshop: Lunch - SCGP Cafe**

Title: Lunch

1:15pm **Workshop: Jacobus Verbaarschot - SCGP 103**

Speaker: Jacobus Verbaarschot

Title: Emergent Topology in Many-Body Dissipative Quantum Chaos

2:30pm **Workshop: Angela Foerster - SCGP 103**

Speaker: Angela Foerster

Title: Integrability in the design and control of quantum devices

3:30pm **Workshop: Tea Time - SCGP Cafe**

Title: Tea Time

4:00pm **Workshop: Klaus Richter - SCGP 103**

Speaker: Klaus Richter

Title: Steering far from equilibrium many-body quantum dynamics through chaos control

5:00pm **Workshop: Group Discussion - SCGP 103**

Title: Group Discussion

6:00pm **Workshop: Dinner Banquet - SCGP Cafe**

Title: Dinner Banquet

Thursday, May 2nd

8:30am **Workshop: Breakfast**

Title: Breakfast

9:30am **Workshop: Gesualdo Delfino - SCGP 103**

Speaker: Gesualdo Delfino

Title: Time evolution in isolated quantum systems out of equilibrium

10:30am **Workshop: Coffee Break - SCGP Cafe**

Title: Coffee Break

11:00am **Workshop: Boris Svistunov - SCGP 103**

Speaker: Boris Svistunov

Title: Counterflow superfluids and transverse quantum fluids: When Mottness cooperates with supertransport

12:00pm **Workshop: Lunch - SCGP Cafe**

Title: Lunch

2:30pm **Workshop: Pasquale Calabrese - SCGP 103**

Speaker: Pasquale Calabrese

Title: Quantum Mpemba effect

3:30pm **Workshop: Tea Time - SCGP Cafe**

Title: Tea Time

4:00pm **Workshop: Olexei Motrunich - SCGP 103**

Speaker: Olexei Motrunich

Title: Robustness and eventual slow decay of bound states of interacting microwave photons in the Google Quantum AI experiment

5:00pm **Workshop: Group Discussion - SCGP 103**

Title: Group Discussion

Friday, May 3rd

8:30am **Workshop: Breakfast**

Title: Breakfast

9:30am **Workshop: Max Metlitski - SCGP 103**

Speaker: Max Metlitski

Title: The Kondo model at large spin

10:30am **Workshop: Coffee Break - SCGP Cafe**

Title: Coffee Break

11:00am **Workshop: Shinsei Ryu - SCGP 103**

Speaker: Shinsei Ryu

Title: Quantum anomalies in driven and dissipative quantum many-body systems

12:00pm **Workshop: Lunch - SCGP Cafe**

Title: Lunch

1:15pm **Workshop: Vincenzo Alba - SCGP 103**

Speaker: Vincenzo Alba

Title: Negative tripartite information after quantum quenches in integrable systems

2:30pm **Workshop: Alex Levchenko - SCGP 103**

Speaker: Alex Levchenko

Title: Hydrodynamic transport of Dirac plasma in graphene

3:30pm **Workshop: Tea Time - SCGP Cafe**

Title: Tea Time

4:00pm **Workshop: Victor Gurarie - SCGP 103**

Speaker: Victor Gurarie

Title: Spectral Form Factors of attractively interacting fermions

5:00pm **Workshop: Group Discussion - SCGP 103**

Title: Group Discussion