

# **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