

Symmetric Mass Generation, Topological Phases and Lattice Chiral Gauge Theories: May 20-24, 2024

Events for:
Monday, May 20th - Friday, May 24th

Monday, May 20th

8:30am **Breakfast - SCGP Cafe**

9:30am **Workshop: David Kaplan - SCGP 103**

Speaker: David Kaplan

Title: Chiral Gauge Theory at the Boundary between Topological Phases

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

11:00am **Workshop: Yigal Shamir - SCGP 103**

Speaker: Yigal Shamir

Title: Conserved currents in five-dimensional proposals for lattice chiral gauge theories

11:30am **Workshop: Maarten Golterman - SCGP 103**

Speaker: Maarten Golterman

Title: Propagator zeros and lattice chiral gauge theories

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

1:30pm **Workshop: Shu-Heng Shao - SCGP 103**

Speaker: Shu-Heng Shao

Title: Non-invertible and chiral symmetries

2:30pm **Workshop: Srimoyee Sen - SCGP 103**

Speaker: Srimoyee Sen

Title: Weyl fermions on a finite lattice

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

4:00pm **Workshop: Diego Delmastro - SCGP 103**

Speaker: Diego Delmastro

Title: Boundaries, Anomalies, Scattering

Tuesday, May 21st

8:30am **Breakfast - SCGP Cafe**

9:30am **Workshop: Cenke Xu - SCGP 103**

Speaker: Cenke Xu

Title: Various aspects of symmetric mass generation (Chalk talk)

10:45am **Coffee Break - SCGP Cafe**

11:00am **Workshop: Gertian Roose - SCGP 103**

Speaker: Gertian Roose

Title: Tensor networks for lattice field theory

11:30am **Workshop: Laurens Lootens - SCGP 103**

Speaker: Laurens Lootens

Title: Tensor networks for generalized symmetries, duality and chiral fermions

12:00pm **Workshop: Group Photo - SCGP Lobby**

Title: Group Photo

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

1:30pm **Workshop: Dachuan Lu - SCGP 103**

Speaker: Dachuan Lu

Title: Generalized lattice gauging

2:00pm **Workshop: Yi-Zhuang You - SCGP 103**

Speaker: Yi-Zhuang You

Title: Gauge response of Green's function zeros

2:30pm **Workshop: Xiao-Gang Wen - SCGP 103**

Speaker: Xiao-Gang Wen

Title: Three approaches to chiral fermion problem via mirror fermions: composite fermion, anomaly, and non-linear sigma model

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

4:00pm **Workshop: Discussion - SCGP 103**

Title: Workshop Discussion Session

Wednesday, May 22nd

8:30am **Breakfast - SCGP Cafe**

9:30am **Workshop: Simon Catterall - SCGP 103**

Speaker: Simon Catterall

Title: Exact lattice anomalies and SMG for Kaehler-Dirac fermions

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

11:00am **Workshop: Nouman Butt - SCGP 103/ZOOM**

Speaker: Nouman Butt

Title: SMG in four dimensional staggered fermion models

11:30am **Workshop: Anna Hasenfratz - SCGP 103**

Speaker: Anna Hasenfratz

Title: Phase structure of 8 flavor SU(3) gauge theory

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

1:30pm **Workshop: Juven Wang - SCGP 103**

Speaker: Juven Wang

Title: Generation Puzzle ($3 = 48/16 = 45/15 = 24/8$) and Strong CP Puzzle

2:30pm **Workshop: Phillip Boyle Smith - SCGP 103**

Speaker: Phillip Boyle Smith

Title: SMG=MG

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

4:00pm **Workshop: Yoshio Kikukawa - SCGP 103**

Speaker: Yoshio Kikukawa

Title: The integrability of chiral determinant in anomaly-free chiral lattice gauge theories

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

Title: Banquet Dinner

Thursday, May 23rd

8:30am **Breakfast - SCGP Cafe**

9:30am **Workshop: Theo Jacobson - SCGP 103**

Speaker: Theo Jacobson

Title: Modified Villain Hamiltonians and Lattice Chern-Simons Theory

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

11:00am **Workshop: Aleksey Cherman - SCGP 103**

Speaker: Aleksey Cherman

Title: Exact lattice chiral symmetry in 2d gauge theory

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

1:30pm **Workshop: Hersh Singh - SCGP 103**

Speaker: Hersh Singh

Title: Fermionic anomalies on the lattice: the Ginsparg-Wilson relation and its generalizations

2:30pm **Workshop: Emily Huffman - SCGP 103**

Speaker: Emily Huffman

Title: Conformally Symmetric Views from a Fuzzy Sphere

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

4:00pm **Workshop: Yuta Hamada - SCGP 103**

Speaker: Yuta Hamada

Title: Monopole-fermion scattering and flavor hierarchy

Friday, May 24th

8:30am **Breakfast - SCGP Cafe**

9:30am **Workshop: Seth Koren - SCGP 103**

Speaker: Seth Koren

Title: Generalized Global Symmetries and Nonperturbative Quantum Flavodynamics

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

11:00am **Workshop: Yuri Shirman - SCGP 103**

Speaker: Yuri Shirman

Title: Chirality changing RG flows: dynamics and models

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