

Energy Operators in Particle Physics, Quantum Field Theory and Gravity: December 16-20, 2024

Events for:
Monday, December 16th - Friday, December 20th

Monday, December 16th

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

Title: Breakfast

9:45am **Workshop: Ian Moulton - SCGP 102**

Speaker: Ian Moulton

Title: Energy Operators in Particle Physics, QFT and Gravity

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

Title: Coffee Break

11:15am **Workshop: David Simmons-Duffin - SCGP 102**

Speaker: David Simmons-Duffin

Title: Exploring the (operator) Chew-Frautschi plot of QCD

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

Title: Lunch

2:00pm **Workshop: Kyle Lee - SCGP 102**

Speaker: Kyle Lee

Title: Generalized Detectors at Colliders

2:45pm **Workshop: Matthew Walters - SCGP 102**

Speaker: Mathew Walters

Title: Light-ray Operator Correlators in CFT

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

Title: Tea Time

4:00pm **Workshop: Liam Fitzpatrick - SCGP 102**

Speaker: Liam Fitzpatrick

Title: Holography and Large Spin Effective Theory for Multiparticle States

Tuesday, December 17th

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

Title: Breakfast

9:45am **Workshop: Lance Dixon - SCGP 102**

Speaker: Lance Dixon

Title: E(E)C Pot Pourri

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

Title: Coffee Break

11:15am **Workshop: Gregoire Mathys - SCGP 102**

Speaker: Gregoire Mathys

Title: Averaged null energy and the renormalisation group

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

Title: Group Photo

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

Title: Lunch

1:45pm **Workshop: Julio Parra-Martinez - SCGP 102**

Speaker: Julio Parra-Martinez

Title: Asymptotic measurements in classical physics: puzzles and applications

2:45pm **Workshop: Raju Venugopalan - SCGP 102/ZOOM**

Speaker: Raju Venugopalan

Title: Novel insights from an Electron-Ion Collider into non-perturbative features of QCD

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

Title: Tea Time

4:00pm **Workshop: Manuela Kulaxizi - SCGP 102**

Speaker: Manuela Kulaxizi

Title: Comments on the holographic eikonal phase

Wednesday, December 18th

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

Title: Breakfast

9:45am **Workshop: Hua Xing Zhu - SCGP 102**

Speaker: Hua Xing Zhu

Title: Correlation functions in the sequentially lightlike limit from effective field theory

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

Title: Coffee Break

11:15am **Workshop: Enrico Hermann - SCGP 102**

Speaker: Enrico Hermann

Title: Event shapes in classical and quantum gravity

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

Title: Lunch

2:00pm **Workshop: Gilad Perez - SCGP 102**

Speaker: Gilad Perez

Title: Time-correlators for stochastic dark matter

2:45pm **Workshop: Jonathan Sorce - SCGP 102**

Speaker: Jonathan Sorce

Title: Energy operators as operators: lessons from Hilbert space

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

Title: Tea Time

4:00pm **Workshop: Andrea Puhm - SCGP 102**

Speaker: Andrea Puhm

Title: The classical superrotation infrared triangle

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

Title: Banquet Dinner

Thursday, December 19th

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

Title: Breakfast

9:45am **Workshop: George Sterman - SCGP 102**

Speaker: George Sterman

Title: TBD

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

Title: Coffee Break

11:15am **Workshop: Andrei Parnachev - SCGP 102**

Speaker: Andrei Parnachev

Title: Operator product expansion, geodesics and black hole singularities

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

Title: Lunch

2:00pm **Workshop: Ameen Ismail - SCGP 102**

Speaker: Ameen Ismail

Title: Energy correlators in holographic models of confinement

2:45pm **Workshop: Alexandre Homrich - SCGP 102**

Speaker: Alexandre Homrich

Title: Multi-Twist Trajectories, Light-Ray Wave Functions, and the Missing Zeroes

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

Title: Tea Time

4:00pm **Workshop: Tom Faulkner - SCGP 102**

Speaker: Tom Faulkner

Title: Quantum information aspects of energy correlators

Friday, December 20th

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

Title: Breakfast

9:45am **Workshop: Bianka Meczaj - SCGP 102**

Speaker: Bianka Meczaj

Title: Massive Energy Correlators

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

Title: Coffee Break

11:15am **Workshop: Murat Kologlu - SCGP 102**

Speaker: Murat Kologlu

Title: Exploring detector operators in quantum gravity

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

Title: Lunch

2:00pm **Workshop: Kai Yan - SCGP 102**

Speaker: Kai Yan

Title: Energy correlators in the multi-collinear limit and beyond

2:45pm **Workshop: Yifan Wang - SCGP 102**

Speaker: Yifan Wang

Title: Energy Shield From Pinning Field

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

Title: Tea Time