

# Workshop Scheudle

Events for:  
**Monday, March 21st - Friday, March 25th**

## Monday, March 21st

- 8:45am **Opening remark - SCGP 102**
- 9:00am **Zoom: Ben Nachman - ZOOM/SCGP 102**
- Speaker:** Ben Nachman
- Title:** Jet substructure experiment overview: new ideas and measurements
- 9:45am **coffee break - SCGP Cafe**
- 10:15am **Jesse Thaler - SCGP 102**
- Speaker:** Jesse Thaler
- Title:** Optimal transport for jets
- 11:00am **Zoom: Simon Plätzer - ZOOM/SCGP 102**
- Speaker:** Simon Plätzer
- Title:** Accuracy of parton branching algorithms and subleading colour correction
- 11:45am **lunch and discussion - SCGP Cafe**
- 12:30pm **lunch - SCGP Cafe**
- 1:30pm **Zoom: Zvi Bern - ZOOM/SCGP 102**

**Speaker:** Zvi Bern

**Title:** QCD methods applied to gravitational waves

2:15pm **Hofie Hannesdottir - SCGP 102**

**Speaker:** Hofie Hannesdottir

**Title:** Finite S-matrix and constraints on analytic structure of scattering amplitudes

3:00pm **coffee break - SCGP Cafe**

3:30pm **Gherardo Vita - SCGP 102**

**Speaker:** Gherardo Vita

**Title:** Differential distributions at N3LO and beyond

**Tuesday, March 22nd**

9:00am **Zoom: Gregory Korchemsky - ZOOM/SCGP 102**

**Speaker:** Gregory Korchemsky

**Title:** Energy flow correlations

9:45am **coffee break - SCGP Cafe**

10:15am **Ian Mould - SCGP 102**

**Speaker:** Ian Mould

**Title:** Conformal colliders meet the LHC

11:00am **Dave Soper - SCGP 102**

**Speaker:** Dave Soper

**Title:** Theory of parton showers

11:45am

**lunch - SCGP Cafe**

1:00pm

**SCGP Weekly Talk: George Sterman - SCGP 102**

**Title:** ng fundamental processes: the story and stories of particle jets at accelerators

2:15pm

**Edmond Iancu - SCGP 102**

**Speaker:** Edmond Iancu

**Title:** Jet evolution in a medium via parton showers

3:00pm

**coffee break - SCGP Cafe**

3:30pm

**Yacine Mehtar-Tani - SCGP 102**

**Speaker:** Yacine Mehtar-Tani

**Title:** Universality aspects of quantum corrections to jet transverse momentum broadening

4:15pm

**Zoom: Xin-nian Wang - ZOOM/SCGP 102**

**Speaker:** Xin-nian Wang

**Title:** 3D structure of jet induced medium response in an expanding quark-gluon plasma

**Wednesday, March 23rd**

9:00am

**Zoom: Andrea Banfi - ZOOM/SCGP 102**

**Speaker:** Andrea Banfi

**Title:** Next-to-leading log resummation of non-global logarithms

9:45am **Yoshitaka Hatta - SCGP 102**

**Speaker:** Yoshitaka Hatta

**Title:** Resummation of non-global logarithms in hadron collisions

10:30am **coffee break - SCGP Cafe**

11:00am **Thomas Becher - SCGP 102**

**Speaker:** Thomas Becher

**Title:** Resummation of super-leading and non-global logarithms

11:45am **Gregory Soyez - SCGP 102**

**Speaker:** Gregory Soyez

**Title:** Jet physics in the Lund plane

12:30pm **lunch and discussion - SCGP Cafe**

1:30pm **lunch - SCGP Cafe**

2:15pm **Zoom: Ivan Vitev - ZOOM/SCGP 102**

**Speaker:** Ivan Vitev

**Title:** Light and heavy jet production and substructure in e+A collisions at the EIC

3:00pm **coffee break - SCGP Cafe**

3:30pm

**Christine Aidala - SCGP 102**

**Speaker:** Christine Aidala

**Title:** ing hadronization in jets at LHCb

4:15pm

**Raghav Kunnawalkam Elayavalli - SCGP 102**

**Speaker:** Raghav Kunnawalkam Elayavalli

**Title:** Heavy ion jet measurements

6:00pm

**Workshop dinner at Simons Center - SCGP Cafe**

**Thursday, March 24th**

9:00am

**Zoom: Bryan Webber - ZOOM/SCGP 102**

**Speaker:** Bryan Webber

**Title:** Electroweak jets at high energy

9:45am

**Valentin Hirschi - SCGP 102**

**Speaker:** Valentin Hirschi

**Title:** Local Unitarity: substituting brass for brains

10:30am

**coffee break - SCGP Cafe**

11:00am

**Babis Anastasiou - SCGP 102**

**Speaker:** Babis Anastasiou

**Title:** Infrared factorization: a practical method for computing two-loop QCD amplitudes

11:45am **Bianka Mecaj - SCGP 102**

**Speaker:** Bianka Mecaj

**Title:** Resummation beyond leading power in soft-collinear effective theory

12:30pm **lunch - SCGP Cafe**

1:30pm **Zoom: Duff Neill - ZOOM/SCGP 102**

**Speaker:** Duff Neill

**Title:** Fragmentation and small-z resummation

2:15pm **Zoom: Lorenzo Magnea - ZOOM/SCGP 102**

**Speaker:** Lorenzo Magnea

**Title:** Non-abelian infrared divergences on the celestial sphere

3:00pm **coffee break - SCGP Cafe**

3:30pm **Andrew Larkoski - SCGP 102**

**Speaker:** Andrew Larkoski

**Title:** A Fragmentation Approach to Jet Flavor

**Friday, March 25th**

9:00am **Bernhard Mistelberger - SCGP 102**

**Speaker:** Bernhard Mistelberger

**Title:** Predictions for the LHC at N3LO in QCD

9:45am **Zoom: Vitto Del Duca - ZOOM/SCGP 102**

**Speaker:** Vitto Del Duca

**Title:** Mixed QCD-Electroweak contributions to Higgs production

10:30am **coffee break - SCGP Cafe**

11:00am **Raju Venugopalan - SCGP 102**

**Speaker:** Raju Venugopalan

**Title:** Di-jet production at small  $x$  to NLO in the Color-Glass-Condensate effective field theory

11:45am **Ozan Erdogan - SCGP 102**

**Speaker:** Ozan Erdogan

**Title:** Infrared safety in coordinate space

12:30pm **lunch and discussion - SCGP Cafe**

1:30pm **lunch - SCGP Cafe**

2:15pm **Al Mueller - SCGP 102**

**Speaker:** Al Mueller

**Title:** Jets, saturation and unitarity in high energy coherent reactions

3:00pm **closing remark**