

# **International Workshop on Precision QCD @ LHC**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## QCD measurements at the LHC

*Tuesday 28 January 2020 10:30 (30 minutes)*

**Presenter:** MAZUMDAR, Kajari (Experimental High Energy Physics Group, Tata Institute of Fundamental Research)

**Session Classification:** Morning Session

Contribution ID: 2

Type: **not specified**

## Factorization and Subtraction beyond NLO

*Tuesday 28 January 2020 11:30 (30 minutes)*

**Presenter:** MAGNEA, Lorenzo (Universita e INFN Torino (IT))

**Session Classification:** Morning Session

Contribution ID: 3

Type: **not specified**

## Local analytic sector subtraction: the Torino scheme

*Tuesday 28 January 2020 12:00 (30 minutes)*

**Presenter:** SIGNORILE-SIGNORILE, Chiara (Università degli Studi di Torino)

**Session Classification:** Morning Session

Contribution ID: 4

Type: **not specified**

# One loop angularity distributions with recoil using SCET

*Tuesday 28 January 2020 14:00 (30 minutes)*

**Presenter:** Ms BUDHRAJA, Ankita

**Session Classification:** Afternoon Session

Contribution ID: 5

Type: **not specified**

# Wilson-line geometries underlying amplitudes and PDF

*Tuesday 28 January 2020 14:30 (30 minutes)*

**Presenter:** FALCIONI, Giulio

**Session Classification:** Afternoon Session

Contribution ID: 6

Type: **not specified**

## **Resummation of large logarithms at next-to-leading power for scattering processes near threshold**

*Tuesday 28 January 2020 16:00 (30 minutes)*

**Presenter:** Dr VERNAZZA, Leonardo (Nikhef and University of Amsterdam)

**Session Classification:** Afternoon Session

Contribution ID: 7

Type: **not specified**

## **Multi-differential resummation in SCET+**

*Wednesday 29 January 2020 09:30 (30 minutes)*

**Presenter:** WAALEWIJN, Wouter (University of Amsterdam)

**Session Classification:** Morning Session



Contribution ID: 8

Type: **not specified**

## Leading and subleading jet functions

*Wednesday 29 January 2020 10:00 (30 minutes)*

**Presenter:** SCOTT, Darren (University of Amsterdam/Nikhef)

**Session Classification:** Morning Session

Contribution ID: 9

Type: **not specified**

## **Double-differential Higgs and jet $p_T$ resummation in momentum space**

*Wednesday 29 January 2020 11:30 (30 minutes)*

**Presenter:** TORRIELLI, Paolo (Universita e INFN Torino (IT))

**Session Classification:** Morning Session

Contribution ID: **10**

Type: **not specified**

## **Next-to-leading power threshold effects**

*Wednesday 29 January 2020 12:00 (30 minutes)*

**Presenter:** VAN BEEKVELD, Melissa

**Session Classification:** Morning Session

Contribution ID: **11**

Type: **not specified**

# Techniques for solving two-loop massive Feynman integrals

*Wednesday 29 January 2020 14:00 (30 minutes)*

**Presenter:** Ms CHAUBEY, Ekta (Institute of Physics, JGU, Mainz)

**Session Classification:** Afternoon Session

Contribution ID: 12

Type: **not specified**

# **Feynman Integrals: from Integral-By-Parts reduction to Intersection theory**

*Wednesday 29 January 2020 14:30 (30 minutes)*

**Presenter:** KUMAR MANDAL, Manoj

**Session Classification:** Afternoon Session

Contribution ID: 13

Type: **not specified**

## **Radiative EW corrections to the Drell-Yan process**

*Wednesday 29 January 2020 16:00 (30 minutes)*

**Presenter:** TRAMONTANO, Francesco (Universita e sezione INFN di Napoli (IT))

**Session Classification:** Afternoon Session

Contribution ID: 14

Type: **not specified**

## Higgs+n-gluon amplitude at one loop

*Thursday 30 January 2020 09:30 (30 minutes)*

**Presenter:** SETH, Satyajit

**Session Classification:** Morning Session

Contribution ID: 15

Type: **not specified**

## Higgs self-coupling in double higgs production

*Thursday 30 January 2020 10:00 (30 minutes)*

**Presenter:** Dr SHIVAJI, Ambresh (IISER Mohali)

**Session Classification:** Morning Session



Contribution ID: 16

Type: **not specified**

## Two loop QCD amplitudes for di-pseudo scalar production in gluon fusion

*Thursday 30 January 2020 11:30 (30 minutes)*

**Presenter:** MAHAKHUD, Maguni

**Session Classification:** Morning Session

Contribution ID: 17

Type: **not specified**

## **Infrared structure of gauge theory: A comparison between N=4 SYM and QCD and beyond**

*Thursday 30 January 2020 12:00 (30 minutes)*

**Presenter:** CHAKRABORTY, Amlan (The Institute Of Mathematical Sciences)

**Session Classification:** Morning Session

Contribution ID: **18**

Type: **not specified**

**Ajjath: Infrared structure of  $SU(N) \times U(1)$  gauge theory to three loops; Pooja: NNLO  $QCD \oplus QED$  corrections to Higgs production in bottom quark annihilation**

*Friday 31 January 2020 09:30 (30 minutes)*

**Presenter:** POOJA MUKHERJEE + AJJATH A.H.

**Session Classification:** Morning Session

Contribution ID: 19

Type: **not specified**

# **Kajal: N 3 LO SV +N 3 LL Perturbative QCD Calculations for Drell-Yan at LHC, Ravindran: Gluon Jet Function at three loops in QCD**

*Friday 31 January 2020 10:00 (30 minutes)*

**Presenter:** KAJAL SAMANTHA + V. RAVINDRAN (Harish-Chandra Research Institute)

**Session Classification:** Morning Session

Contribution ID: 20

Type: **not specified**

## Multiparton webs at 4-loops

*Friday 31 January 2020 11:30 (30 minutes)*

**Presenter:** PAL, SOURAV

**Session Classification:** Morning Session

Contribution ID: 21

Type: **not specified**

## Precision at the high-energy frontier

*Friday 31 January 2020 12:00 (30 minutes)*

**Presenter:** ERIC, Laenen

**Session Classification:** Morning Session

Contribution ID: 22

Type: **not specified**

**TBA**

**Presenter:** LAENEN, Eric (Nikhef National institute for subatomic physics (NL))

**Session Classification:** Afternoon Session