

# Probing quark-gluon matter with jets



## Report of Contributions

Contribution ID: 1

Type: **not specified**

## Review: Jets in DIS

*Monday, July 23, 2018 11:00 AM (1 hour)*

**Presenters:** KANG, Zhongbo (University of California Los Angeles); KANG, Zhongbo (University of California Los Angeles)

Contribution ID: 2

Type: **not specified**

## **Review: jet quenching theory**

*Tuesday, July 24, 2018 9:00 AM (1 hour)*

**Presenter:** BLAIZOT, Jean-Paul (IPhT University Paris Saclay)

Contribution ID: 3

Type: **not specified**

## **Review: jet substructure at hadron colliders**

*Wednesday, July 25, 2018 9:00 AM (1 hour)*

**Presenter:** NEIL, Duff

Contribution ID: 4

Type: **not specified**

## **Inclusive jet measurements and jet substructure measurements with ALICE**

*Monday, July 23, 2018 2:30 PM (30 minutes)*

**Presenter:** MULLIGAN, James (Yale)

Contribution ID: 5

Type: **not specified**

## **How to calculate $q_{\text{hadL}}$ from di-hadron and di-jet measurements**

*Wednesday, July 25, 2018 10:00 AM (30 minutes)*

**Presenter:** TANNENBAUM, Michael (BNL)

Contribution ID: 6

Type: **not specified**

## **Progress in jet physics at colliders - From LHC to EIC**

*Monday, July 23, 2018 10:10 AM (30 minutes)*

**Presenter:** LIU, Xiaohui

Contribution ID: 7

Type: **not specified**

## **Jet substructure measurements with STAR**

*Monday, July 23, 2018 4:00 PM (30 minutes)*

**Presenter:** KAUDER, Kolja (Wayne State University)



Contribution ID: 9

Type: **not specified**

## **Coherence effects in medium-induced radiation**

*Wednesday, July 25, 2018 1:40 PM (30 minutes)*

**Presenter:** VILA, Víctor (Universidade de Santiago de Compostela)

Contribution ID: **10**

Type: **not specified**

## **LBT model for jet transport and the unavoidable effect of medium response**

*Monday, July 23, 2018 3:30 PM (30 minutes)*

**Presenter:** WANG, Xin-Nian (Lawrence Berkeley National Laboratory)

Contribution ID: 11

Type: **not specified**

## Heavy quark jet substructure

*Wednesday, July 25, 2018 2:10 PM (30 minutes)*

**Presenter:** VAIDYA, Varun

Contribution ID: 12

Type: **not specified**

## **Review: Recent experimental results on jet quenching**

*Monday, July 23, 2018 1:30 PM (1 hour)*

**Presenter:** LEE, Yen-Jie (Massachusetts Institute of Technology)

Contribution ID: 13

Type: **not specified**

## **Review: Jets in small systems**

*Tuesday, July 24, 2018 4:00 PM (1 hour)*

**Presenter:** STEINBERG, Peter (BNL)

Contribution ID: 14

Type: **not specified**

## **Portraying global 3D nucleon structure via study of the centrality dependence of the forward jet production in pA/DA collisions**

*Tuesday, July 24, 2018 2:10 PM (30 minutes)*

**Presenter:** STRIKMAN, Mark

Contribution ID: 15

Type: **not specified**

## Jet evolution in QCD media

*Tuesday, July 24, 2018 10:00 AM (30 minutes)*

**Presenter:** IANCU, Edmond (Institut de Physique Theorique de Saclay)

Contribution ID: 16

Type: **not specified**

## Definition of jets in large background

*Tuesday, July 24, 2018 11:30 AM (30 minutes)*

**Presenter:** REED, Rosi (Lehigh University)



Contribution ID: 17

Type: **not specified**

## **JETSCAPE 1.0 — an event generator for heavy-ion collisions**

*Wednesday, July 25, 2018 3:30 PM (30 minutes)*

**Presenter:** SHEN, Chun (Brookhaven National Lab)

Contribution ID: **18**

Type: **not specified**

## **Measurement of jet mass in pp and PbPb collisions with ATLAS**

*Wednesday, July 25, 2018 11:00 AM (30 minutes)*

**Presenter:** KIM, Yongsun (UIUC)

Contribution ID: **19**

Type: **not specified**

## **Introduction to jet physics**

*Monday, July 23, 2018 9:10 AM (1 hour)*

**Presenters:** STERMAN, George (Stony Brook University); STERMAN, George (Stony Brook University)

Contribution ID: **20**

Type: **not specified**

## **Discussion session**

*Monday, July 23, 2018 4:30 PM (1 hour)*

**Presenter:** PAGE, Brian (Brookhaven National Laboratory)

Contribution ID: **21**

Type: **not specified**

## Discussion session

Contribution ID: 22

Type: **not specified**

## Discussion session

*Tuesday, July 24, 2018 5:00 PM (1 hour)*

**Presenter:** VERWEIJ, Marta (Vanderbilt University / RIKEN BNL Research Center)

Contribution ID: 23

Type: **not specified**

## **Discussion session: goals and developments for MC event generators**

*Wednesday, July 25, 2018 4:30 PM (1 hour)*

**Presenter:** PUTSCHKE, Joern (Wayne State Univ.)

Contribution ID: 24

Type: **not specified**

## **Jets at HERA: New look using NNLO**

*Monday, July 23, 2018 12:00 PM (30 minutes)*

**Presenter:** ZLEBICKI, Radek (DESY)



Contribution ID: 25

Type: **not specified**

## **Some thoughts on key aspects of heavy ion jets measurements: background and normalization**

*Tuesday, July 24, 2018 12:00 PM (30 minutes)*

**Presenter:** JACOBS, Peter (Lawrence Berkeley National Laboratory)

Contribution ID: 26

Type: **not specified**

## Telescoping deconstruction and collinear drop

*Wednesday, July 25, 2018 11:30 AM (30 minutes)*

**Presenter:** CHIEN, Yang-Ting (MIT)

Contribution ID: 27

Type: **not specified**

## **Recent developments in MARTINI**

*Wednesday, July 25, 2018 4:00 PM (30 minutes)*

**Presenter:** JEON, Sangyong (McGill University)

Contribution ID: 28

Type: **not specified**

## **Measurement of D mesons in jets with CMS**

*Wednesday, July 25, 2018 2:40 PM (30 minutes)*

**Presenter:** WANG, Jing

Contribution ID: 29

Type: **not specified**

## Welcome

*Monday, July 23, 2018 9:00 AM (10 minutes)*

**Presenter:** MEHTAR-TANI, Yacine (INT, University of Washington)

Contribution ID: **30**

Type: **not specified**

## **Impact of the proton transverse structure in QCD phenomenology**

*Tuesday, July 24, 2018 2:40 PM (30 minutes)*

**Presenter:** SOTO ONTOSO, Alba (Frankfurt Institute for Advanced Studies)

Contribution ID: 31

Type: **not specified**

## **Novel contribution to jet quenching at high-pt**

*Wednesday, July 25, 2018 12:00 PM (30 minutes)*

**Presenter:** TYWONIUK, Konrad (CERN)

Contribution ID: 32

Type: **not specified**

## Seminar: Jet fragmentation in a QCD plasma: Universal quark/gluon ratio and wave turbulence

*Thursday, July 26, 2018 11:00 AM (1 hour)*

We investigate the radiative break-up of a highly energetic quark or gluon in a high-temperature QCD plasma. Within an inertial range of momenta  $T \ll p \ll E$ , where  $E$  denotes the energy of the original hard parton (jet) and  $T$  the temperature of the medium, we find that, as a result of the turbulent nature of the underlying parton cascade, the quark to gluon ratio of the soft fragments tends to a universal constant value that is independent of the initial conditions. We discuss implications of this result to jet quenching physics and the problem of thermalization of the quark-gluon plasma in heavy ion collisions.

**Presenter:** SCHLICHTING, Soeren (University of Washington)



Contribution ID: 33

Type: **not specified**

## **Seminar: Medium Modification of Jet Substructure in the Opacity Expansion**

*Friday, July 27, 2018 11:00 AM (1 hour)*

**Presenter:** SIEVERT, Matthew (Los Alamos National Laboratory)

Contribution ID: 34

Type: **not specified**

## **Extracting useful physics from jets in large background**

*Tuesday, July 24, 2018 11:00 AM (30 minutes)*

**Presenter:** HARRIS, Philip Coleman

Contribution ID: 35

Type: **not specified**

## **Groomed observables and jet mass at colliders**

*Tuesday, July 24, 2018 3:10 PM (30 minutes)*

**Presenter:** LEE, Kyle