

## **Session Program**

**23-27 Mar 2020**



# **XXVIII International Workshop on Deep Inelastic Scattering and Related Subjects**

## ***QCD with Heavy Flavors and Hadronic Final States***

Brooklyn, NY  
333 Adams Street, Brooklyn, New York 11201, USA

## Tuesday 24 March

09:00

### QCD with Heavy Flavors and Hadronic Final States: Day2-morning-1

**Session** | **Location:** Brooklyn, NY, 333 Adams Street, Brooklyn, New York 11201, USA | **Conveners:** Daniel Greenwald, Ronan McNulty

09:00–09:22

#### The Pierre Auger Observatory: the latest results and perspectives

##### Speaker

Dr Dariusz Gora

09:22–09:44

#### Double D-meson production in perturbative QCD

##### Speaker

Ilkka Helenius

09:44–10:06

#### Measurement of W and Z boson production in association with jets at ATLAS

##### Speaker

Camilla VITTORI

10:06–10:28

#### Electroweak boson and forward jet probes of the initial state in Pb+Pb and p+Pb collisions with ATLAS

##### Speaker

Peter STEINBERG

10:30

11:00

### QCD with Heavy Flavors and Hadronic Final States: Day2-morning-2

**Session** | **Location:** Brooklyn, NY, 333 Adams Street, Brooklyn, New York 11201, USA | **Conveners:** Daniel Greenwald, Ronan McNulty

11:00–11:20

#### Top-quark double-differential distributions in $p_T$ and rapidity

##### Speaker

Nikolaos Kidonakis

11:20–11:40

#### Measurements of differential cross-sections of top-quark-antiquark pair-production in the lepton+jets and all-hadronic channels with the ATLAS detector

##### Speaker

Serena Palazzo

11:40–12:00

#### Measurement of the production of two top-quark-antiquark pairs with the ATLAS detector

##### Speaker

Fabian Sohns

12:00–12:20

#### Hadronic W-boson decays in top pair production

##### Speaker

Tomas Jezo

12:20–12:40

**Top quark pair and single top cross sections and top quark production in association with additional particles at CMS:  $t\bar{t}$ +jets,  $t\bar{t}$ +bb,  $t\bar{t}Z$ ,  $t\bar{t}W$ ,  $t\bar{t}\gamma$ ,  $tZ$ ,  $t\gamma$ , and  $t\bar{t}t\bar{t}$  production**

**Speaker**

Georgios Krintiras

12:40–13:00

**Recent measurements of top quark properties in CMS**

**Speaker**

Giulia Negro

13:00

14:30

## QCD with Heavy Flavors and Hadronic Final States: Day2-afternoon-1

**Session** | **Location:** Brooklyn, NY, 333 Adams Street, Brooklyn, New York 11201, USA

14:30–14:52

**QCD evolution of twist-2 and twist-4 fragmentation function for heavy quarkonium production**

**Speaker**

Kazuhiro Watanabe

14:52–15:14

**Exotic quarkonium at Belle II**

**Speaker**

Jim Libby

15:14–15:36

**Spectroscopy of exotic states at LHCb**

**Speaker**

Lorenzo Capriotti

15:36–15:58

**Statistical combination of searches for the  $X(5568)$  state decaying into  $B_0^{\pm} \pi^{\mp}$**

**Speaker**

Paolo Iengo

16:00

16:30

## QCD with Heavy Flavors and Hadronic Final States: Day2-afternoon-2

**Session** | **Location:** Brooklyn, NY, 333 Adams Street, Brooklyn, New York 11201, USA

16:30–16:52

**ATLAS results on production of quarkonia and heavy flavour**

**Speaker**

Sally Seidel

16:52–17:14

**Studies of b-hadrons and quarkonia at LHCb**

**Speaker**

Sergey Barsuk

17:14–17:36

**ATLAS measurements of CP Violation and Rare decays processes with Beauty mesons**

**Speaker**

Aidan Grummer

17:36–17:58

**The Belle II Experiment: Status and Prospects**

18:00

**Speaker**

Jim Libby

## Wednesday 25 March

09:00

### QCD with Heavy Flavors and Hadronic Final States: Day3-morning-1

**Session** | **Location:** Brooklyn, NY, 333 Adams Street, Brooklyn, New York 11201, USA

09:00–09:22

#### Low $p_{\mathrm{T}}$ direct photon measurements at PHENIX experiment

##### Speaker

Dr Veronica Canoa Roman

09:22–09:44

#### Production of heavy particle pairs in proton-proton collisions induced by two-photon fusion

##### Speaker

Prof. Antoni Szczurek

09:44–10:06

#### Inclusive and heavy flavor jet production in pp and p-Pb collisions and search for jet quenching effects with the ALICE experiment at the LHC.

##### Speaker

Alexandre SHABETAI

10:06–10:28

#### Energy and System Size Dependence of Heavy Flavor Measurements From PHENIX at RHIC

##### Speaker

Rachid Nouicer

10:30

11:00

### QCD with Heavy Flavors and Hadronic Final States: Day3-morning-2

**Session** | **Location:** Brooklyn, NY, 333 Adams Street, Brooklyn, New York 11201, USA

11:00–11:20

#### Precision Jet/Event Substructure Using Collinear Drop

##### Speaker

Dr Yang-Ting Chien

11:20–11:40

#### Measurement of jet substructure and jet fragmentation using the ATLAS detector

##### Speaker

Joey Huston

11:40–12:00

#### Jet substructure at the LHC and EIC

##### Speaker

Felix Ringer

12:00–12:20

#### Novel jet substructure observables via dynamical grooming

##### Speaker

Alba Soto-Ontoso

12:20–12:40

#### Hadronisation studies at the LHC with ALICE

13:00

**Speaker**

Pietro Antonioli

12:40–13:00

**Studying hadronization at LHCb****Speaker**

Sook Hyun Lee

14:30

**QCD with Heavy Flavors and Hadronic Final States: Day3-afternoon-1****Session** | **Location:** Brooklyn, NY, 333 Adams Street, Brooklyn, New York 11201, USA

14:30–14:52

**Soft-gluon resummation for  $2 \rightarrow n$  processes****Speaker**

Nikolaos Kidonakis

14:52–15:14

**Towards a study of the effects of dynamical factorization breaking at LHCb****Speaker**

Jordan Daniel Roth

15:14–15:36

**Three-Loop Heavy Flavor Corrections to Deep-Inelastic Scattering****Speaker**

Prof. Johannes Bluemlein

15:36–15:59

**Multiplicity dependence of quarkonia production****Speaker**

Marat Siddikov

16:00

16:30

**QCD with Heavy Flavors and Hadronic Final States: Day3-afternoon-2****Session** | **Location:** Brooklyn, NY, 333 Adams Street, Brooklyn, New York 11201, USA

16:30–16:52

**Quantum entanglement of partons in the proton and a new measurement of charged particle multiplicity distributions in deep-inelastic scattering at HERA****Speaker**

Zhoudunming Tu

16:52–17:14

**Measurements of photon and jet production at ATLAS****Speaker**

Zdenek HUBACEK

17:14–17:36

**A next-to-leading order method general-mass method for heavy-flavor production at the LHC****Speaker**

Keping Xie

17:36–17:58

**Measurements of the underlying event at ATLAS****Speaker**

Lennart ADAM

18:00

## Thursday 26 March

09:00

### QCD with Heavy Flavors and Hadronic Final States: Day4-morning-1

**Session** | **Location:** Brooklyn, NY, 333 Adams Street, Brooklyn, New York 11201, USA

09:00–09:22

#### Two-particle azimuthal correlations as a probe of collective behaviour in deep inelastic ep scattering at HERA

**Speaker**

Katarzyna Wichmann

09:22–09:44

#### Small system hadron production and flow in PHENIX

**Speaker**

Carlos E Perez Lara

09:44–10:06

#### Recent ATLAS measurements of correlations in Pb+Pb and Xe+Xe collisions

**Speaker**

Arabinda BEHERA

10:06–10:28

#### Recent ATLAS measurements of correlations in pp and p+Pb collisions

**Speaker**

Dennis PEREPELITSA

10:30