

# **New techniques in particle reconstruction for VBS**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## welcome to Krakow

*Monday, October 22, 2018 2:00 PM (15 minutes)*

Contribution ID: 2

Type: **not specified**

## VBSCan

*Monday, October 22, 2018 2:15 PM (15 minutes)*

**Presenters:** SLAWINSKA, Magdalena (Polish Academy of Sciences (PL)); GOVONI, Pietro (Universita & INFN, Milano-Bicocca (IT))

Contribution ID: 3

Type: **not specified**

## **Introduction to the workshop**

*Monday, October 22, 2018 2:30 PM (45 minutes)*

**Presenters:** DREYER, Frederic Alexandre (Oxford); SCHRAMM, Steven (Universite de Geneve (CH))

Contribution ID: 4

Type: **not specified**

## **The Lund jet plane**

*Monday, October 22, 2018 4:00 PM (20 minutes)*

**Presenter:** DREYER, Frederic Alexandre (Oxford)

Contribution ID: 5

Type: **not specified**

## Machine Learning Hands-on

*Monday, October 22, 2018 4:30 PM (1 hour)*

**Presenter:** DREYER, Frederic Alexandre (Oxford)

Contribution ID: 6

Type: **not specified**

## **quark/gluon discrimination**

*Tuesday, October 23, 2018 11:30 AM (20 minutes)*

**Presenter:** SIODMOK, Andrzej Konrad (Polish Academy of Sciences (PL))

Contribution ID: 7

Type: **not specified**

# Learning to Classify from Impure Samples with High-Dimensional Data

*Tuesday, October 23, 2018 4:10 PM (20 minutes)*

**Presenter:** NACHMAN, Ben (Lawrence Berkeley National Lab. (US))



Contribution ID: 8

Type: **not specified**

## **quark/gluon discrimination for tau identification**

*Tuesday, October 23, 2018 12:00 PM (20 minutes)*

**Presenter:** BAHMANI, Marzieh (Polish Academy of Sciences (PL))

Contribution ID: 9

Type: **not specified**

## **b-tagging in ATLAS**

*Tuesday, October 23, 2018 10:00 AM (20 minutes)*

**Presenters:** KAGAN, Michael Aaron (SLAC National Accelerator Laboratory (US)); TBC

Contribution ID: 10

Type: **not specified**

## **b-tag, q/g discrimination and multiclassification using DNN (DeepAK4)**

*Tuesday, October 23, 2018 11:00 AM (20 minutes)*

**Presenter:** KIESELER, Jan (CERN)

Contribution ID: 11

Type: **not specified**

## **quark/gluon discrimination in VBF**

*Tuesday, October 23, 2018 12:30 PM (20 minutes)*

**Presenter:** BIEKOETTER, Anke (Uni Heidelberg)

Contribution ID: 12

Type: **not specified**

## **V-tagging in ATLAS and input from ML**

*Tuesday, October 23, 2018 2:00 PM (30 minutes)*

**Presenter:** SCHRAMM, Steven (Universite de Geneve (CH))

Contribution ID: 13

Type: **not specified**

## **boosted vector boson reconstruction and polarisation studies in CMS**

*Tuesday, October 23, 2018 2:40 PM (20 minutes)*

**Presenter:** LANGE, Clemens (CERN)

Contribution ID: 14

Type: **not specified**

## leptonically-decaying W boson reconstruction

*Tuesday, October 23, 2018 3:10 PM (20 minutes)*

**Presenters:** NOVAK, Jakob (Jozef Stefan Institute (SI)); GROSSI, Michele (Universita and INFN (IT))

Contribution ID: 15

Type: **not specified**

## **central activity veto (and interaction with PU) in experiments**

*Tuesday, October 23, 2018 9:30 AM (20 minutes)*

**Presenters:** KLEIN, Matthew Henry (University of Michigan (US)); TBC



Contribution ID: 16

Type: **not specified**

## **pileup suppression future**

**Presenter:** ROLOFF, Jennifer Kathryn (Harvard University (US))

Contribution ID: 17

Type: **not specified**

## **fast timing layers: the CMS example**

*Tuesday, October 23, 2018 4:40 PM (20 minutes)*

**Presenters:** BENAGLIA, Andrea Davide (Universita & INFN, Milano-Bicocca (IT)); MALBERTI, Martina (Universita & INFN, Milano-Bicocca (IT))

Contribution ID: **18**

Type: **not specified**

## **Highly granular forward calorimetry**

*Wednesday, October 24, 2018 11:00 AM (20 minutes)*

**Presenters:** LANGE, Clemens (CERN); KIESELER, Jan (CERN)

Contribution ID: **19**

Type: **not specified**

## **pileup suppression future**

*Wednesday, October 24, 2018 10:00 AM (20 minutes)*

**Presenter:** ROLOFF, Jennifer Kathryn (Harvard University (US))

Contribution ID: 20

Type: **not specified**

## **pile-up suppression in CMS**

*Wednesday, October 24, 2018 9:30 AM (20 minutes)*

**Presenter:** KIRSCHENMANN, Henning (Helsinki Institute of Physics (FI))

Contribution ID: 21

Type: **not specified**

## **pileup constituents and missing ET in ATLAS**

*Wednesday, October 24, 2018 9:00 AM (20 minutes)*

**Presenter:** KHOO, Teng Jian (Universite de Geneve (CH))

Contribution ID: 22

Type: **not specified**

## workshop summary

*Wednesday, October 24, 2018 11:30 AM (30 minutes)*

**Presenters:** KIRSCHENMANN, Henning (Helsinki Institute of Physics (FI)); SLAWINSKA, Magdalena (Polish Academy of Sciences (PL)); DURIC, Senka (Kansas State University (US)); SCHRAMM, Steven (Universite de Geneve (CH))

Contribution ID: 23

Type: **not specified**

## **discussion on the next steps**

*Wednesday, October 24, 2018 12:00 PM (1 hour)*



Contribution ID: 24

Type: **not specified**

## **dynamical jet vetoes in VBF**

*Tuesday, October 23, 2018 9:00 AM (20 minutes)*

**Presenter:** RUIZ, Richard (University of Durham (GB))

Contribution ID: 25

Type: **not specified**

## **Outreach event – Beers and Brains**