

# **20th Annual RDMS CMS Collaboration Conference**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## CMS Experiment Status

*Wednesday 12 September 2018 09:30 (30 minutes)*

**Presenter:** BORRAS, Kerstin (DESY / RWTH Aachen University)

**Session Classification:** Physics Results

Contribution ID: 2

Type: **not specified**

## Recent CMS Highlights and Prospects

*Wednesday 12 September 2018 10:30 (30 minutes)*

**Presenter:** RAHATLOU, Shahram (Sapienza Universita e INFN, Roma I (IT))

**Session Classification:** Physics Results

Contribution ID: 3

Type: **not specified**

## Measuring Higgs properties at LHC and beyond

*Wednesday 12 September 2018 10:00 (30 minutes)*

**Presenter:** TONELLI, Guido (Universita degli Studi di Pisa-INFN, Sezione di Pisa-Unknown)

**Session Classification:** Physics Results

Contribution ID: 4

Type: **not specified**

## **Search for a narrow $\mu^+\mu^-$ state produced in association with b-quark**

*Wednesday 12 September 2018 11:30 (20 minutes)*

**Presenter:** GAVRILOV, Vladimir (Institute for Theoretical and Experimental Physics (RU))

**Session Classification:** Physics Results

Contribution ID: 5

Type: **not specified**

## **B Physics Parking Program in CMS**

*Wednesday 12 September 2018 11:50 (30 minutes)*

**Presenter:** LANDSBERG, Greg (Brown University (US))

**Session Classification:** Physics Results

Contribution ID: 6

Type: **not specified**

## **Search for a new physics with the CMS detector at the LHC**

*Wednesday 12 September 2018 12:20 (30 minutes)*

**Presenter:** SAVINA, Mariia (Joint Institute for Nuclear Research (RU))

**Session Classification:** Physics Results

Contribution ID: 7

Type: **not specified**

## Top Quark Physics

*Wednesday 12 September 2018 16:30 (30 minutes)*

**Presenter:** BOOS, Eduard (M.V. Lomonosov Moscow State University (RU))

**Session Classification:** Physics Results



Contribution ID: 8

Type: **not specified**

## Dimuon Physics at CMS

*Wednesday 12 September 2018 14:30 (20 minutes)*

**Presenter:** LANEV, Alexander (Joint Institute for Nuclear Research (RU))

**Session Classification:** Physics Results

Contribution ID: 9

Type: **not specified**

## Angular distributions of Drell-Yan events at CMS

*Wednesday 12 September 2018 14:50 (20 minutes)*

**Presenter:** GORBUNOV, Ilya (Joint Institute for Nuclear Research (RU))

**Session Classification:** Physics Results

Contribution ID: **10**

Type: **not specified**

## **NLO and FSR NNLO Radiative Corrections for Drell-Yan Processes at LHC**

*Wednesday 12 September 2018 15:10 (20 minutes)*

**Presenter:** ZYKUNOV, Vladimir (Joint Institute for Nuclear Research (RU))

**Session Classification:** Physics Results

Contribution ID: **11**

Type: **not specified**

## **Search for WR and Heavy Neutrino in CMS**

*Wednesday 12 September 2018 15:30 (20 minutes)*

**Presenter:** KIRSANOV, Mikhail (Russian Academy of Sciences (RU))

**Session Classification:** Physics Results

Contribution ID: 12

Type: **not specified**

## **Electroweak Mixing at CMS today and after Phase 2 Upgrade**

*Wednesday 12 September 2018 15:50 (20 minutes)*

**Presenter:** TLISOV, Danila (Russian Academy of Sciences (RU))

**Session Classification:** Physics Results

Contribution ID: 13

Type: **not specified**

## Heavy Flavor Spectroscopy at CMS

**Presenter:** CHISTOV, Ruslan (National Research Nuclear University MEPhI (RU))

**Session Classification:** Physics Results

Contribution ID: 14

Type: **not specified**

## Study of P-wave B0s States at CMS

*Wednesday 12 September 2018 17:00 (20 minutes)*

**Presenter:** POLIKARPOV, Sergey (National Research Nuclear University MEPhI (RU))

**Session Classification:** Physics Results

Contribution ID: 15

Type: **not specified**

## Measurement of Z+c-jet Inclusive Cross-Section

*Wednesday 12 September 2018 17:20 (20 minutes)*

**Presenter:** STEPENNOV, Anton (Institute for Theoretical and Experimental Physics (RU))

**Session Classification:** Physics Results



Contribution ID: 16

Type: **not specified**

## **Forward Rapidity Gap Distribution in pPb Collisions at 8 TeV**

**Presenter:** KUZNETSOVA, Katerina (Petersburg Nuclear Physics Institut (RU))

**Session Classification:** Physics Results

Contribution ID: 17

Type: **not specified**

## **Presentation of Russian edition of Higgs Discovery Article**

**Presenter:** TONELLI, Guido (Universita degli Studi di Pisa-INFN, Sezione di Pisa-Unknown)

**Session Classification:** Physics Results

Contribution ID: **18**

Type: **not specified**

## Opening

*Wednesday 12 September 2018 09:00 (30 minutes)*

**Presenters:** YULDASHEV, Bekhzod (Joint Institute for Nuclear Research (RU)); GOLUTVIN, Igor (Joint Institute for Nuclear Research (RU)); BORRAS, Kerstin (DESY / RWTH Aachen University); OFFICIAL REPRESENTATIVES; MATVEEV, Viktor (Joint Institute for Nuclear Research (RU))

**Session Classification:** Physics Results

Contribution ID: **19**

Type: **not specified**

## **LHC Performance and Overview of the HL-LHC**

*Thursday 13 September 2018 09:00 (30 minutes)*

**Presenter:** BRUNING, Oliver (CERN)

**Session Classification:** Future Physics

Contribution ID: **20**

Type: **not specified**

## **Beyond LHC: Future Circular Colliders**

*Thursday 13 September 2018 09:30 (40 minutes)*

**Presenter:** ZIMMERMANN, Frank (CERN)

**Session Classification:** Future Physics

Contribution ID: **21**

Type: **not specified**

## Discussion on Future Machines

*Thursday 13 September 2018 10:10 (20 minutes)*

**Session Classification:** Future Physics

Contribution ID: 22

Type: **not specified**

## **What makes us think that there is physics beyond the Standard model**

*Thursday 13 September 2018 11:00 (40 minutes)*

**Presenter:** KAZAKOV, Dmitry (JINR)

**Session Classification:** Future Physics

Contribution ID: 23

Type: **not specified**

## **BSM vs. Nature**

*Thursday 13 September 2018 11:40 (30 minutes)*

**Presenter:** WEILER, Andreas (Technische Universität Muenchen (DE))

**Session Classification:** Future Physics



Contribution ID: 24

Type: **not specified**

## Naturalness of Standard model and Higgs boson

*Thursday 13 September 2018 12:10 (20 minutes)*

**Presenter:** Prof. KIM, Victor (Petersburg Nuclear Physics Institute - PNPI NRC KI, Gatchina & SPbPU, St. Petersburg)

**Session Classification:** Future Physics

Contribution ID: 25

Type: **not specified**

## **Mass of the Higgs boson: a possible tool to measure the non-naturalness of SM**

*Thursday 13 September 2018 12:30 (20 minutes)*

**Presenter:** GOUZEVITCH, Maxime (Centre National de la Recherche Scientifique (FR))

**Session Classification:** Future Physics

Contribution ID: 26

Type: **not specified**

## Calibration of HE phase 1 calorimeter.

*Thursday 13 September 2018 14:30 (20 minutes)*

**Presenter:** GAVRILOV, Vladimir (Institute for Theoretical and Experimental Physics (RU))

**Session Classification:** Upgrade

Contribution ID: 27

Type: **not specified**

## **HCAL energy scale calibration with isolated hadrons in 2017**

*Thursday 13 September 2018 14:50 (20 minutes)*

**Presenter:** CHADEEVA, Marina (National Research Nuclear University MEPhI (RU))

**Session Classification:** Upgrade

Contribution ID: 28

Type: **not specified**

## **The Study of CMS CSC Spatial Resolution and Operation in Extreme Radiation & High Rate Conditions**

*Thursday 13 September 2018 15:10 (20 minutes)*

**Presenters:** PERELYGIN, Victor (Joint Institute for Nuclear Research (RU)); PALCHIK, Vladimir (Joint Institute for Nuclear Research (RU))

**Session Classification:** Upgrade

Contribution ID: 29

Type: **not specified**

## **Overview of the CMS BCML beam loss monitoring system and the pCVD diamond modification technology**

*Thursday 13 September 2018 15:30 (20 minutes)*

**Presenter:** OKHOTNIKOV, Vitalii (National Research Tomsk Polytechnic University (RU))

**Session Classification:** Upgrade

Contribution ID: 30

Type: **not specified**

## **The Large Hadron Collider and other high energy microscopes**

*Friday 14 September 2018 11:00 (1 hour)*

**Presenter:** TENCHINI, Roberto (INFN Sezione di Pisa, Universita' e Scuola Normale Superiore, P)

**Session Classification:** Samarkand Public Lecture

Contribution ID: 31

Type: **not specified**

## Nuclear and Particle Physics in Uzbekistan

*Friday 14 September 2018 12:00 (40 minutes)*

**Presenter:** YULDASHEV, Bekhzod (Joint Institute for Nuclear Research (RU))

**Session Classification:** Samarkand Public Lecture



Contribution ID: **32**

Type: **not specified**

## Conference Closing

*Saturday 15 September 2018 14:00 (20 minutes)*

Contribution ID: 33

Type: **not specified**

## The Phase II Upgrade of CMS

*Saturday 15 September 2018 09:00 (30 minutes)*

**Presenter:** CARLIN, Roberto (Universita e INFN, Padova (IT))

**Session Classification:** HGCAL

Contribution ID: 34

Type: **not specified**

## **CMS Calorimetry at very forward rapidity**

*Saturday 15 September 2018 09:30 (30 minutes)*

**Presenter:** DE BARBARO, Pawel (University of Rochester (US))

**Session Classification:** HGCALE

Contribution ID: 35

Type: **not specified**

## **HGCAL challenges after approval: towards engineering and construction**

*Saturday 15 September 2018 10:00 (30 minutes)*

**Presenter:** SEFKOW, Felix (Deutsches Elektronen-Synchrotron (DE))

**Session Classification:** HGCAL

Contribution ID: **36**

Type: **not specified**

## Discussion

*Saturday 15 September 2018 10:30 (30 minutes)*

**Session Classification:** HGCAL

Contribution ID: 37

Type: **not specified**

## **Radiation damage study of SiPMs for the CMS BH HGCAL**

*Saturday 15 September 2018 11:30 (20 minutes)*

**Presenter:** MUSIENKO, Yuri (Northeastern University (Boston) & INR (Moscow))

**Session Classification:** HGCAL

Contribution ID: 38

Type: **not specified**

## **Radiation damage of SiPM in neutron fields**

*Saturday 15 September 2018 11:50 (20 minutes)*

**Presenter:** ZAMYATIN, Nikolai (Joint Inst. for Nuclear Research (RU))

**Session Classification:** HGCAL

Contribution ID: 39

Type: **not specified**

## Investigations of scintillators for HGCAL

*Saturday 15 September 2018 12:10 (20 minutes)*

**Presenter:** AFANASYEV, Sergey (Joint Institute for Nuclear Research (RU))

**Session Classification:** HGCAL



Contribution ID: 40

Type: **not specified**

## **Scintillator macrotiles –possible mechanical concept for HGCAL**

*Saturday 15 September 2018 12:30 (20 minutes)*

**Presenter:** ERSHOV, Iouri (Joint Institute for Nuclear Research (RU))

**Session Classification:** HGCAL

Contribution ID: 41

Type: **not specified**

## **ISMA development radiation hardness detectors for HEP, resources and capabilities**

*Saturday 15 September 2018 12:50 (20 minutes)*

**Presenter:** BOYARYNTSEV, Andriy (Inst. for Scint. Materials of Nat. Acad. of Science of Ukraine )

**Session Classification:** HGCAL

Contribution ID: 42

Type: **not specified**

## **A possibility of RDMS participation in scintillator module production**

*Saturday 15 September 2018 13:30 (20 minutes)*

**Presenter:** Prof. MALAKHOV, Alexandre (Joint Institute for Nuclear Research (RU))

**Session Classification:** HGCAL

Contribution ID: 43

Type: **not specified**

## Discussion

*Saturday 15 September 2018 13:50 (10 minutes)*

**Session Classification:** HGCAL

Contribution ID: 44

Type: **not specified**

## Status and Prospects of CMS

*Thursday 13 September 2018 16:20 (30 minutes)*

**Presenter:** BUTLER, Joel (CMS)

**Session Classification:** Future Physics

Contribution ID: 45

Type: **not specified**

## The physics potential of HL-LHC

*Thursday 13 September 2018 16:50 (30 minutes)*

**Presenter:** MAZUMDAR, Kajari (Tata Inst. of Fundamental Research (IN))

**Session Classification:** Future Physics

Contribution ID: 46

Type: **not specified**

## **LHC as gamma-gamma collider**

*Thursday 13 September 2018 17:20 (30 minutes)*

**Presenter:** VYSOTSKIY, Mikhail

**Session Classification:** Future Physics

Contribution ID: 47

Type: **not specified**

## **Fermilab program: status and plans**

*Thursday 13 September 2018 17:50 (30 minutes)*

**Presenter:** DENISOV, Dmitri (Fermi National Accelerator Lab. (US))

**Session Classification:** Future Physics



Contribution ID: 48

Type: **not specified**

## Discussion on Future Physics

*Thursday 13 September 2018 18:20 (30 minutes)*

**Session Classification:** Future Physics

Contribution ID: 49

Type: **not specified**

## **Presentation of Russian edition of Higgs Discovery article**

*Wednesday 12 September 2018 17:40 (20 minutes)*

**Presenter:** TONELLI, Guido (Universita degli Studi di Pisa-INFN, Sezione di Pisa-Unknown)

**Session Classification:** Book Presentation

Contribution ID: 50

Type: **not specified**

## **Stable and unstable radiation defects in plastic scintillators**

*Saturday 15 September 2018 13:10 (20 minutes)*

**Presenter:** Dr IBRAGIMOVA, Elvira (INP)

**Session Classification:** HGCAL