

## **Session Program**

**10-17 Jul 2019**



## **EPS-HEP2019**

### ***Wine & Cheese Poster Session***

Ghent

International Convention Center and Ghent University - Campus Ledeganck, Ghent, Belgium

# Monday 15 July

18:30

## Wine & Cheese Poster Session

Poster Session | Location: Ghent, ICC - Arteveldeforum

### Search for narrow resonance in the Dijet Mass spectrum with the Run II dataset at CMS

**Speaker**

Melpomeni Diamantopoulou

### Three fermion generations with two unbroken gauge symmetries from the complex sedenions

**Speaker**

Dr Niels Gresnigt

### Rare decays of Higgs boson in dilepton plus one photon final state with CMS detector at $\sqrt{s} = 13\text{TeV}$

**Speaker**

Ming-Yan Lee

### Search for lepton flavour violation decays of the Higgs boson with CMS

**Speaker**

Prasanna Kumar Siddireddy

### Search for 2HDM neutral Higgs bosons through the process $H \rightarrow ZA \rightarrow llbb$ with the CMS detector

**Speaker**

Alessia Saggio

### Higgs pair production in the $\gamma\gamma bb$ final state at $\sqrt{s} = 13\text{ TeV}$ with the CMS detector

**Speaker**

Chia-Ming Kuo

### Higgs to tau tau measurements with CMS

**Speaker**

Olena Hlushchenko

### Higgs to WW measurements with CMS

**Speaker**

Davide Di Croce

### Search for a heavy Higgs boson decaying to a pair of W bosons in proton-proton collisions at 13 TeV with CMS

**Speaker**

Dennis Roy

### Cosmic-Ray Lithium Isotopes with the Alpha Magnetic Spectrometer

**Speaker**

Laurent Yves Marie Derome

**MSW effects on the time evolution of the supernova neutrino event rates****Speaker**

Mr Chun Sing Jason Leung

**Analysis framework for sensitivity studies of the SoLid experiment****Speaker**

Ms lanthe Michiels

**Current status of JUNO Top Tracker****Speaker**

Mr Qinhuang HUANG

**Semirelativistic Bound States: (Pseudo-) Spinless-Salpeter Approaches Reassessed****Speaker**

Wolfgang Lucha

**Constraints on neutrino millicharge and charge radius from neutrino-atom scattering****Speakers**

Konstantin Kouzakov, Alexander Studenikin

**The effect of neutrino quantum decoherence****Speaker**

Konstantin Stankevich

**Neutrino spin and spin-flavour oscillations in transversal matter currents with standard and non-standard interactions****Speakers**

Pavel Pustoshny, Alexander Studenikin

**Majorana and pseudo-Dirac Neutrinos at the ILC****Speaker**

Mr Omar Suarez Navarro

**Crystal-assisted HEP****Speaker**

Marco Romagnoni

**Emittance exchange in MICE****Speaker**

Maurizio Bonesini

**Measurement from MICE of Coulomb multiple scattering and energy loss****Speaker**

Dr Alan Young

**Bridging mathematics and physics: models of the evolution of dynamic aperture in hadron colliders and applications to LHC****Speaker**

Frederik Van Der Veken

**Progress on Muon Ionization Cooling Demonstration with MICE**

**Speaker**

Mr Paul Jurj

**Study on HQ-LAB for the JUNO Experiment****Speaker**

Prof. QI MING

**Intrinsic quantum mechanics behind the Standard Model?****Speaker**

Ole Lyynerup Trinhammer

**Soft b-hadron tagging with the ATLAS detector****Speaker**

Tomohiro Yamazaki

**AWAKE: the proton-driven plasma wakefield accelerator experiment at CERN****Speaker**

Erik Adli

**Luminosity determination in pp collisions at  $\sqrt{s}=13$  TeV using the ATLAS detector at the LHC****Speaker**

Hulin Wang

**Data Quality Evaluation in ATLAS during LHC Run 2****Speaker**

Kazuya Mochizuki

**A measurement of the top quark Yukawa coupling from differential cross sections of top quark pairs with CMS****Speaker**

Otto Heinz Hindrichs

**Search for Heavy Neutral Leptons with CMS detector****Speaker**

Martina Vit

**Interaction-point stabilisation of beams to the nanometer level for future high-energy electron-positron colliders****Speaker**

Prof. Philip Nicholas Burrows

**Detection of supernova neutrinos with JUNO****Speaker**

Mario Buscemi

**Neutrino eigenstates and flavour, spin and spin-flavour oscillations in a constant magnetic field****Speaker**

Artem Popov

**Recent results on hadronic cross sections measurements at BABAR for the  $g-2$  calculation**

**Speaker**

Vladimir Druzhinin

**Analysis of b jets in p-Pb collisions at  $\sqrt{s_{NN}} = 5$  TeV with ALICE****Speaker**

Artem Isakov

**First Result for a Full Two-Loop Five-Gluon Amplitude****Speaker**

Dmitry Chicherin

**Search For Dark Matter produced in association with a Higgs Boson in the four lepton final state at 13 TeV with the CMS experiment****Speaker**

Reham Aly

**Studies of the ISR process  $e+e- \rightarrow \pi+\pi-\pi^0\gamma$  at the phi mass with the KLOE detector****Speaker**

Dr Cao Bo

**Possible effect of mixed phase and deconfinement upon spin correlations in the  $\Lambda \bar{\Lambda}$  pairs generated in relativistic heavy-ion collisions****Speaker**

Dr Valery Lyuboshitz

**Resonances in unitarized HEFT at the LHC****Speaker**

Antonio Dobado

**From the charm production asymmetry at LHCb to enhanced prompt atmospheric neutrino flux at IceCube****Speaker**

Antoni Szczurek

**Latest Daya Bay neutrino oscillation results****Speaker**

Vit Vorobel

**Charm production in charged current deep inelastic scattering at HERA****Speaker**

Amanda Sarkar

**QCD evolution based evidence for the onset of gluon saturation in exclusive photo-production of vector mesons****Speaker**

Martin Hentschinski

**Breakdown of QCD factorization in hard diffraction****Speaker**

Boris Kopeliovich

 **$J/\psi$  production in hadron scattering: two parton showers contribution**

**Speaker**

Prof. Eugene Levin

**Improved transverse momentum dependent factorization with KaTie****Speaker**

Andreas van Hameren

**Searching for odderon exchange in exclusive  $pp \rightarrow pp \phi \phi$  and  $pp \rightarrow pp \phi$  reactions****Speakers**

Dr Piotr Lebiedowicz, Prof. Antoni Szczurek

**On the correlations of polarizations in the system of two photons produced in hadronic decays****Speaker**

Dr Valery Lyuboshitz

**Observation of single top quark production in association with a Z boson from CMS****Speaker**

Willem Verbeke

**Search for anomalous triple gauge couplings in semileptonic WW and WZ decays with CMS****Speaker**

Muhammad Ansar Iqbal

**New Observables in Inclusive Production of Quarkonia****Speaker**

Jean-Philippe Lansberg

**Spin component of the Pomeron from data on Coulomb-nuclear interference****Speaker**

Michal Krelina

**Study of  $e^+e^- \rightarrow e^+e^- \eta'$  in double-tag mode at BABAR and measurement of the  $\gamma^* \gamma^* \rightarrow \eta'$  Transition Form Factor.****Speaker**

Evgeny Kozyrev

**Investigating collective-like effects in small systems with heavy flavour with ALICE****Speaker**

Arthur Willem Jean Gal

**Measurement of the  $\Psi(2S)$  to  $J/\Psi$  cross section ratio in photoproduction with the ZEUS detector at HERA****Speaker**

Aleksander Filip Zarnecki

**Determination of diffractive parton densities at the LHeC and the FCC-eh****Speaker**

Anna Stasto

**QCD couplings probed with top quark pairs at CMS**

**Speaker**

Matteo Defranchis

**Expected tracking performance with the HL-LHC ATLAS detector****Speaker**

Kira Abeling

**Mechanical properties of the thin-walled welded straws for the COMET experiment****Speaker**

Mr Michail Kravchenko

**Identification and calibration of high-rapidity electrons with the ATLAS detector****Speaker**

Jun Gao

**How to properly formulate QCD sum rules for exotic tetraquarks****Speaker**

Wolfgang Lucha

**Intermediate dynamics of the four pions production in  $e^+e^-$  annihilation and tau decay processes****Speaker**

Mr Evgeny Kozyrev

**Spectrum of relative momenta of the neutron and proton at the deuteron peripheral breakup in the limit of very low momentum transfer****Speaker**

Dr Valery Lyuboshitz

**Precision measurement of the hyper-triton lifetime with ALICE****Speaker**

Omur Erkiner

**Odderon, proton structure and hollowness from the model-independent Levy imaging of elastic hadron-hadron collisions****Speaker**

Roman Pasechnik

**ZICOS -Neutrinoless double beta decay experiment using Zr-96 in organic liquid scintillator-****Speaker**

Prof. Yoshiyuki FUKUDA

**Universality of high-pT hadron suppression in AA collisions****Speaker**

Boris Kopeliovich

**Barut-Girardello coherent states in magnetized 2D-Dirac-Weyl materials under uniform uniaxial strain****Speaker**

Dr Yajaira Concha-Sánchez

**DANAE - Evaluating the potential to directly search for Dark Matter-electron scattering with a DEPFET-RNDR matrix**

**Speaker**  
Jochen Schieck

**Dark compact objects as a probe of Dark Matter existence in the inner parsecs from Galactic Centre**

**Speaker**  
Maksym Deliyergiyev

**Two natural scenarios for dark matter particles coexisting with supersymmetry**

**Speaker**  
Prof. Roland Allen

**CAPP-8TB: Search for Axion Dark Matter in a Mass Range of 6.62 to 7.04  $\mu\text{eV}$**

**Speaker**  
Dr Soohyung Lee

**Search for Dark Sector at Belle**

**Speaker**  
Seokhee Park

**Performances of multi-PMT photodetectors for the Hyper-Kamiokande experiment**

**Speakers**  
Lucas Nascimento Machado, Lucas Nascimento Machado

**Calibration of the highly segmented SoLid antineutrino detector**

**Speaker**  
Luis Manzanillas

**Reactor Neutrino Spectrum Uncertainty and Mass Hierarchy Determination**

**Speaker**  
Prof. Emilio Ciuffoli

**Impact of magnetic field on beta-processes in partially transparent medium**

**Speaker**  
Dr Alexandra Dobrynina

**Measurement of Charged Current anti-neutrino cross section on water and hydrocarbon with limited acceptance at 1.5 deg off axis with the T2K beam**

**Speaker**  
Kenichi Kin

**Non-reactor neutrino physics with the JUNO experiment**

**Speaker**  
Prof. Barbara Clerbaux

**New effects in neutrino spin and flavor oscillations**

**Speaker**  
Alexander Studenikin

**Improved Measurement of the Reactor Antineutrino Flux at Daya Bay**

**Speaker**  
Prof. Ming-chung Chu

**Near Detectors for the Hyper-K Neutrino Experiment**

**Speaker**

Noah Messomo Etam

**Commissioning the SoLid Detector Using Cosmic Ray Muons****Speaker**

Giel Vandierendonck

**Search for sterile neutrinos in the NOvA near and far detectors****Speaker**

Tyler Alion

**Study of tau-neutrino production at the CERN SPS****Speaker**

Tomoko Ariga

**New physics at T2HKK with new asymmetries****Speaker**

Dr Sushant Raut

**Measurement of the charged-current electron (anti-)neutrino cross-section on plastic with the T2K neutrino beam in the off-axis near detector ND280****Speaker**

Georgios Christodoulou

**Supernova Neutrino Detection at the Deep Underground Neutrino Experiment****Speaker**

Ana Gallego Ros

**Single top quark production and CKM matrix elements measurements with CMS****Speaker**

Agostino De Iorio

**Single top quark production in association with a W boson in CMS****Speaker**

Mr Victor Rodriguez Bouza

**Measurement of the ttbb production cross section in the all-jet final state with CMS****Speaker**

Sebastien Wertz

**Reconstruction techniques in supersymmetry searches in the ATLAS experiment****Speaker**

Shunichi Akatsuka

**Fermion mass and mixing hierarchies from E8-inspired left-right-color-family Grand-unification****Speaker**

Roman Pasechnik

**Superweak force****Speaker**

Prof. Zoltan Laszlo Trocsanyi

**Technicolor coupled models****Speaker**

Prof. Adriano Natale

**Bayesian and frequentist approaches to discoveries****Speaker**

Dr Andrew Fowlie

**Beyond-Standard-Model Physics at the High-Luminosity LHC with the CMS detector****Speaker**

Cecile Sarah Caillol

**Search for wide resonances in the Dijet Mass spectrum with the Run II dataset at CMS****Speaker**

Dimitrios Karasavvas

**Search for chargino and neutralino production in final states with one lepton, a Higgs boson and missing transverse momentum with the ATLAS detector****Speaker**

Mr Eric Schanet

**Discrimination between prompt and long-lived particles using convolutional neural network****Speaker**

Dr Swagata Mukherjee

**Search for the strong pair production of squarks and gluinos in events with an isolated lepton, jets and missing transverse momentum at  $\sqrt{s} = 13$  TeV with the ATLAS detector****Speaker**

Andrei Alexandru Geanta

**Search for a  $W'$  boson decaying to a tau lepton and a neutrino in proton-proton collisions at 13 TeV with CMS****Speaker**

Swagata Mukherjee

**Search for squarks and gluinos in final states with jets and missing transverse momentum using 139 fb<sup>-1</sup> of  $\sqrt{s}=13$  TeV pp collision data with the ATLAS detector****Speaker**

Christina Agapopoulou

**Search for Additional Heavy Neutral Higgs Bosons in the Ditau Final State with the ATLAS Detector****Speaker**

Janina Anna Krzysiak

**Search for compressed top squarks with one lepton final state in  $\sqrt{s}=13$  TeV pp collisions with the ATLAS detector****Speaker**

Zulit Paola Arrubarrena Tame

**THE BACKEND ELECTRONICS CARDS OF THE JUNO EXPERIMENT****Speaker**

Pierre-Alexandre Petitjean

**Design of the CMS upgraded trigger from Phase I to Phase II of the LHC****Speaker**

Manfred Jeitler

**Heavy flavour jet identification with the CMS experiment in Run 2****Speaker**

Andrzej Novak

**Triggering on electrons, photons, tau leptons, Jets and energy sums at HL-LHC with the upgraded CMS Level-1 Trigger****Speaker**

Cecile Sarah Caillol

**The CMS electron and photon trigger for the LHC Run 2 and plans for Run 3****Speaker**

Marina Kolosova

**Precision luminosity measurement of proton-proton collisions at the CMS experiment in Run 2****Speaker**

Peter Major

**Time-of-flight particles identification in the MultiPurpose Detector at NICA****Speaker**

Vadim Babkin

**Studies of the factorization of proton densities in van der Meer scans and its impact on precision luminosity measurements for CMS****Speaker**

Peter Major

**Performance of the BRIL Luminometers at CMS for Run 2****Speaker**

Olena Karacheban

**Emittance Scans for CMS Luminosity Calibration in run 2****Speaker**

Olena Karacheban

**The ATLAS Tile Calorimeter performance in the LHC Run-2 and its upgrade towards the High-Luminosity LHC****Speaker**

Emery Nibigira

**ATLAS Muon Trigger performance****Speaker**

Takafumi Kodama

**The ATLAS Electron and Photon Trigger Performance in Run 2**

**Speaker**  
Mario Spina

### **New Level-1 jet feature extraction modules for ATLAS phase-I upgrade**

**Speaker**  
Renjie Wang

### **ATLAS Transverse Missing Energy Momentum Trigger Performance**

**Speaker**  
Manfredi Ronzani

### **Performance of the ATLAS tau-lepton trigger at the LHC in Run 2.**

**Speaker**  
Serhat Ordek

### **Progress in the development of Fast Timing Micro-pattern Gaseous Detectors**

**Speaker**  
Christos Roskas

### **New approaches for jet tagging and MET reconstruction in CMS**

**Speaker**  
Andre Sznajder

### **The CMS ECAL calibration and monitoring**

**Speaker**  
Mohammad Abrar Wadud

### **Results on the R&D campaign on the improved CMS Resistive Plate Chamber with a new Front End electronics**

**Speaker**  
Jan Eysermans

### **Upgrades of the CMS muon detectors: from Run-3 towards HL-LHC**

**Speaker**  
Carlo Battilana

### **New physics solutions for $b \rightarrow c \tau \bar{\nu}$ anomalies after the measurement of $D^*$ polarization**

**Speaker**  
Suman Kumbhakar

### **Sensitivity for heavy resonances at the HL-LHC with the Phase-2 CMS detector**

**Speaker**  
Kerstin Hoepfner

### **The global feature extractor: A new component of the Level-1 Calorimeter trigger Phase-I upgrade for the ATLAS experiment**

**Speaker**  
Aparajita Dattagupta

### **The ATLAS Level-1 Topological Processor: experience and upgrade plans**

**Speaker**  
Sara Alderweireldt

**Simulation studies with the Gas Electron Multiplier (GEM) Foils & Detectors for the CMS muon system upgrade****Speaker**

Othmane Bouhali

**Operational Experience and Performance with the ATLAS Pixel detector at the Large Hadron Collider at CERN****Speaker**

Xiaotong Chu

**Performance of the Muon identification and isolation efficiencies for Run II using CMS Experiment****Speaker**

Sandro Fonseca De Souza

**Characterization of large-size diamond sensors for medical and nuclear applications****Speaker**

Johann Collot

**Constraining the Higgs boson self-coupling via single-Higgs production measurement****Speaker**

Eleonora Rossi

**Measurements of the Higgs production cross section in the  $H \rightarrow \tau\tau$  decay channel with the ATLAS experiment****Speaker**

Alessia Murrone

**OT- $\mu$ DTC, a test bench for testing CMS Outer Tracker Phase-2 module prototypes****Speaker**

Jarne Theo De Clercq

**The Data Quality Monitoring and Data Certification for the CMS experiment at the LHC****Speaker**

Amandeep Kaur Kalsi

**Inclusive Bs to Ds X decay at Belle****Speaker**

Boqun Wang

**Investigation of cross-talk effects in RD53A modules with 100 and 150  $\mu$ m thick n-in-p planar sensors****Speaker**

Arash Jofrehei

**Flavour Physics at the High Luminosity LHC: LHCb Upgrade II****Speaker**

Sevda Esen

**Real-time alignment and temperature dependency of the LHCb Vertex Detector**

**Speaker**

Biljana Mitreska

**Particle identification performance of the LHCb experiment in Run 2****Speaker**

Michel De Cian

**Small-Strip Thin Gap Chambers for the Muon Spectrometer Upgrade of the ATLAS Experiment****Speaker**

Henso Javier Abreu Aguilar

**The Micromegas chambers for the upgrade of the forward muon detector of ATLAS****Speaker**

Jerome Samarati

**Performance of the ATLAS RPC detector and L1 Muon Barrel trigger at 13 TeV****Speaker**

Asma Hadeif

**The Phase-II upgrade of the ATLAS Monitored Drift Tube Detector and Frontend electronics****Speaker**

Xiong Xiao

**The Phase-II upgrade of the ATLAS Muon Spectrometer****Speaker**

Antonio Policicchio

**Search for the forbidden charm meson decays  $D^0 \rightarrow hh'$** **Speaker**

Fergus Wilson

**Design of Radiation Tolerant Electronics for StrECal System in COMET Experiment****Speaker**

Dr Kazuki Ueno

**FCC-hh detector performance****Speaker**

Clement Helsens

**FCC-hh detector concept****Speaker**

Clement Helsens

**The design and layout of the Phase-II upgrade of the Inner tracker of the ATLAS experiment****Speaker**

Ben Bruers

**Toward realistic implementation of large imaging calorimeters**

**Speaker**

Lorenz Konrad Emberger

**The CLIC detector****Speaker**

Emilia Leogrande

**High rate performance of Small-pad Resistive Micromegas. Comparison of different resistive protection concepts.****Speaker**

Mariagrazia Alviggi

**The commissioning of the ICARUS LAr detector on the short baseline (SBN) neutrino beam at FNAL****Speaker**

Maurizio Bonesini

**Performance of Jets at the Higgs Factory, CEPC****Speaker**

Pei-Zhu Lai

**Reconstruction of Physics Objects at the Circular Electron Positron Collider with Arbor****Speaker**

Pei-Zhu Lai

**Water Cherenkov detector of the JUNO Veto System****Speaker**

Prof. Ruiguang Wang

**Weak Decays of Charmed Baryons****Speaker**

Prof. Fanrong Xu

**The Aerogel RICH detector of the Belle II experiment****Speaker**

Luka Santelj

**Performance of the Belle II Silicon Vertex Detector****Speaker**

Antonio Paladino

**Measurement of top-Higgs Yukawa coupling in tHq process with CMS****Speaker**

Pallabi Das

**The MEGII detector design****Speaker**

Angela Papa

**Studies of RPC operations with ecological gas mixture under irradiation at GIF++****Speaker**

Gianluca Rigoletti

## The Phase-I Trigger Readout Electronics Upgrade of the ATLAS Liquid Argon Calorimeters

### Speaker

Ryunosuke Iguchi

## A detector for the LHeC and the FCC-eh

### Speaker

Max Klein

## Search for a Higgs boson produced in association with a Z or W boson, where H decays to b-bbar and the Z/W to leptons at CMS.

### Speaker

Krunal Bipin Gedia

## Spontaneous CP Violation in a 2HDM with Controlled Scalar FCNC

### Speaker

Miguel Ruben Nebot Gomez

## Upgrade of the CSC Muon System for the CMS Detector at the HL-LHC

### Speaker

Vivan Thi Nguyen

## Study of the Effects of Radiation at the CERN Gamma Irradiation Facility on the CMS Drift Tubes Muon Detector for the HL-LHC

### Speaker

Juan Gonzalez

## CMS High Level Trigger performance in Run 2

### Speaker

Hale Sert

## Luminometers for Future Linear Collider Experiments

### Speaker

Dr Veta Ghenescu

## On the spin correlations of final leptons produced in the high-energy annihilation processes $e^+ e^- \rightarrow \mu^+ \mu^-$ , $e^+ e^- \rightarrow \tau^+ \tau^-$

### Speaker

Dr Valery Lyuboshitz

## Optimising the performance of the CMS Electromagnetic Calorimeter to measure Higgs properties during Phase I and Phase II of the LHC

### Speaker

Davide Valsecchi

## The ATLAS Run-2 Trigger Menu

### Speaker

Heather Russell

## ATLAS Trigger and Data Acquisition Upgrades for the High Luminosity LHC

### Speaker

Marco Valente

**Search for chargino and neutralino production with three leptons and missing transverse momentum in the final states at  $\sqrt{s} = 13$  TeV with the ATLAS detector****Speaker**

Fabrizio Trovato

**Search for supersymmetric partners of third-generation quarks in  $139 \text{ fb}^{-1}$  of pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector.****Speaker**

Laura Pereira Sanchez

**Thermal radiation and inclusive production in the CGC/saturation approach at high energies****Speaker**

Prof. Eugene Levin

**Forward-backward correlations and multiplicity fluctuations in Pb-Pb collisions at  $\sqrt{s_{\text{NN}}} = 2.76$  TeV from ALICE at the LHC****Speaker**

Iwona Anna Sputowska

**Muon performance with CMS detector in Run2 of LHC****Speaker**

Carlo Battilana

20:00