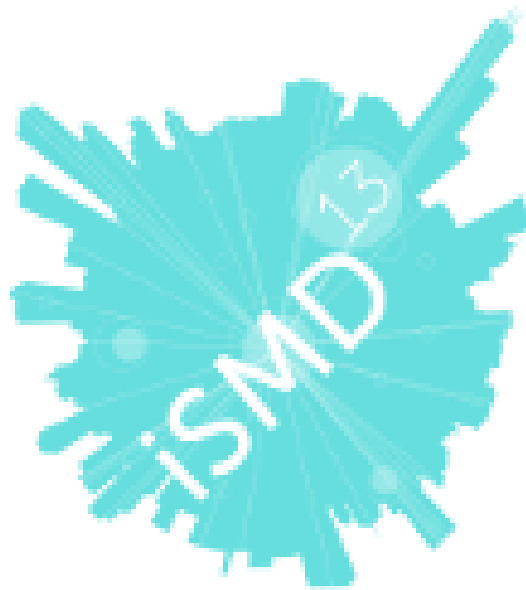


# **XLIII International Symposium on Multiparticle Dynamics**



## **Report of Contributions**

Contribution ID: 0

Type: **not specified**

## Opening Remark

**Presenters:** Prof. BETTS, Russell (Dean, IIT); Prof. SULLIVAN, Zack (Illinois Institute of Technology)

Contribution ID: 3

Type: **not specified**

## **Boosted heavy particles and jet substructure using ATLAS data**

*Monday, 16 September 2013 10:05 (25 minutes)*

**Presenter:** WARDROPE, David Robert

Contribution ID: 4

Type: **not specified**

## **Hadronic final states in high-pT QCD with the CMS detector**

*Monday, 16 September 2013 09:40 (25 minutes)*

**Presenter:** BOSE, Suvadeep (Univ. of Nebraska-Lincoln, United States)

Contribution ID: 5

Type: **not specified**

## Hadronic final states in high-pT QCD at CDF

*Monday, 16 September 2013 15:40 (20 minutes)*

**Presenter:** MATERA, Keith

Contribution ID: 6

Type: **not specified**

## **Hadronic final states in high-pT QCD with the ATLAS detector**

*Monday, 16 September 2013 15:20 (20 minutes)*

**Presenter:** STOEBE, Michael

Contribution ID: 8

Type: **not specified**

## **Boosted heavy particles and jet substructure with the CMS detector**

*Monday, 16 September 2013 15:00 (20 minutes)*

**Presenter:** MARCHESINI, Ivan (University of Hamburg, Germany)

Contribution ID: 9

Type: **not specified**

## **Recent HERA results on diffraction and forward physics**

*Tuesday, 17 September 2013 16:30 (20 minutes)*

**Presenter:** WICHMANN, Katarzyna



Contribution ID: **10**

Type: **not specified**

## **Diffraction physics at the LHC**

*Tuesday, 17 September 2013 16:50 (20 minutes)*

**Presenter:** MATE, Csaba (Eotvos University)

Contribution ID: **11**

Type: **not specified**

## Central Exclusive Production in CDF

*Tuesday, 17 September 2013 17:10 (25 minutes)*

**Primary author:** ALBROW, Michael

**Presenter:** ALBROW, Michael

Contribution ID: **12**

Type: **not specified**

## **Recent ATLAS results on HI collisions**

*Thursday, 19 September 2013 14:00 (25 minutes)*

**Presenter:** SPOUSTA, Martin

Contribution ID: 13

Type: **not specified**

## **Multi-particle aspects of high-density systems in heavy ion collisions with the ATLAS detector**

*Thursday, 19 September 2013 09:00 (17 minutes)*

**Presenter:** JIA, Jiangyong

Contribution ID: **14**

Type: **not specified**

## **Review of RHIC heavy-ion results**

*Thursday, 19 September 2013 16:35 (20 minutes)*

**Presenter:** EVDOKIMOV, Olga (UIC)

Contribution ID: 15

Type: **not specified**

## Recent Heavy Ion Results with the ALICE Detector

*Thursday, 19 September 2013 16:15 (20 minutes)*

**Presenter:** Prof. PUTSCHKE, Joern (Wayne State University)

Contribution ID: **16**

Type: **not specified**

## **Recent results on UE and double parton scattering with the CMS detector**

*Tuesday, 17 September 2013 09:30 (20 minutes)*

**Presenter:** ARCIDIACONO, Roberta (Univ. di Torino e Sez. dell'INFN, Italy)

Contribution ID: 17

Type: **not specified**

## **Recent results on UE and double parton scattering with the ATLAS detector**

*Tuesday, 17 September 2013 09:50 (20 minutes)*

**Presenter:** WYNNE, Benjamin



Contribution ID: **18**

Type: **not specified**

## **Introduction: Aspects of soft QCD, correlations, particle spectra and multiplicities**

*Tuesday, 17 September 2013 11:00 (25 minutes)*

**Presenter:** VAN REMORTEL, Nick

Contribution ID: **19**

Type: **not specified**

## **Recent Heavy Ion Results with the CMS Detector (Hard and EM Probes)**

*Thursday, 19 September 2013 14:25 (25 minutes)*

**Primary author:** Dr LEE, Yen-Jie (CERN)

**Presenter:** Dr LEE, Yen-Jie (CERN)

Contribution ID: 20

Type: **not specified**

# **Cosmic Ray Atmospheric Showers and High Energy Hadronic Interaction Models**

*Friday, 20 September 2013 12:10 (25 minutes)*

**Presenter:** DESIATI, Paolo (Wisc)

Contribution ID: **21**

Type: **not specified**

## Overview of Higgs results with the CMS detector

*Monday, 16 September 2013 11:00 (20 minutes)*

**Presenter:** Dr MERKEL, Petra (Fermilab)

Contribution ID: 22

Type: **not specified**

## Overview of ATLAS Higgs results

*Monday, 16 September 2013 11:50 (20 minutes)*

**Presenter:** REBUZZI, Daniela

Contribution ID: 23

Type: **not specified**

## Introduction

*Thursday, 19 September 2013 11:00 (20 minutes)*

**Presenter:** ROLLI, Simona

Contribution ID: 24

Type: **not specified**

## **BSM searches in multi-objects final states at TEVATRON**

*Thursday, 19 September 2013 11:20 (20 minutes)*

**Presenter:** CULBERTSON, Raymond

Contribution ID: 25

Type: **not specified**

## **BSM searches in multi-objects final states with the CMS detector**

*Thursday, 19 September 2013 11:40 (20 minutes)*

**Presenter:** NACHTMAN, Jane (The Univ. of Iowa, United States)



Contribution ID: 26

Type: **not specified**

## **BSM searches in multi-objects final states with the ATLAS detector**

*Thursday, 19 September 2013 12:20 (20 minutes)*

**Presenter:** Dr CORNELISSEN, Thijs (Wuppertal)

Contribution ID: 27

Type: **not specified**

## Review of Gamma Ray Astronomy

*Friday, 20 September 2013 11:10 (30 minutes)*

**Presenter:** Prof. BUCKLEY, James (Washington University)

Contribution ID: **28**

Type: **not specified**

## **Particle and Nuclear Astrophysics with Supernova Neutrinos**

*Friday, 20 September 2013 11:40 (30 minutes)*

**Presenter:** Prof. BEACOM, John (Ohio State University)

Contribution ID: 29

Type: **not specified**

## **Recent CMS experiment results on multiparticle aspects of high-density systems in heavy-ion collisions**

**Presenter:** ZHUKOVA, Victoria

Contribution ID: 30

Type: **not specified**

## **Recent CMS experiment results on multiparticle aspects of high-density systems in heavy-ion collisions**

*Thursday, 19 September 2013 09:17 (17 minutes)*

**Presenter:** ZHUKOVA, Victoria

Contribution ID: **31**

Type: **not specified**

## **Studies of the helix model using pp collisions**

*Tuesday, 17 September 2013 12:15 (20 minutes)*

**Presenter:** Dr TODOROVA, Sarka (Faculty of Mathematics and Physics, Charles University, Prague)

Contribution ID: 32

Type: **not specified**

## **Recent results on vector boson production in association with jets with the ATLAS detector**

*Wednesday, 18 September 2013 09:00 (20 minutes)*

**Presenter:** ARABIDZE, Giorgi

Contribution ID: 33

Type: **not specified**

## **Resent results on vector boson production in association with jets with the CMS detector**

*Wednesday, 18 September 2013 09:20 (20 minutes)*

**Presenter:** CORNELIS, Tom Gustaaf (Universiteit Antwerpen, Belgium)



Contribution ID: 34

Type: **not specified**

## **Introduction and UE Findings from the Tevatron Energy Scan**

*Tuesday, 17 September 2013 09:00 (30 minutes)*

**Presenter:** FIELD, Rick

Contribution ID: 35

Type: **not specified**

## **Recent STAR Results from the RHIC Beam Energy Scan**

*Thursday, 19 September 2013 09:51 (21 minutes)*

**Presenter:** WANG, Hui (BNL)

Contribution ID: 36

Type: **not specified**

## Large x Physics: Recent Results and Future Plans

*Tuesday, 17 September 2013 15:35 (25 minutes)*

**Presenter:** HOLT, Roy (ANL)

Contribution ID: 37

Type: **not specified**

## **Inclusive measurements at HERA from low to high x**

*Tuesday, 17 September 2013 14:55 (20 minutes)*

**Presenter:** BEHNKE, Olaf (DESY)

Contribution ID: **38**

Type: **not specified**

## **Particle production sources in heavy-ion collisions at RHIC and LHC**

*Thursday, 19 September 2013 09:34 (17 minutes)*

**Presenter:** WOLSCHIN, Georg

Contribution ID: 39

Type: **not specified**

## **The challenges of high luminosity and jets**

*Monday, 16 September 2013 17:25 (25 minutes)*

**Presenter:** Prof. SULLIVAN, Zack (Illinois Institute of Technology)

Contribution ID: 40

Type: **not specified**

## **Color Reconnection and Its Effect on Precise Measurements at the LHC**

*Tuesday, 17 September 2013 11:50 (25 minutes)*

**Presenter:** SJOSTRAND, Torbjorn

Contribution ID: 41

Type: **not specified**

# **Underlying Event Studies at the Tevatron and the LHC”**

*Tuesday, 17 September 2013 10:10 (20 minutes)*

**Presenter:** KAR, Deepak



Contribution ID: 43

Type: **not specified**

## **Recent results from the D0 experiment on heavy particle production with jets**

*Wednesday, 18 September 2013 09:40 (25 minutes)*

**Presenter:** Dr KUMAR, Ashish (State University of New York at Buffalo)

Contribution ID: 44

Type: **not specified**

## Theory overview

*Thursday, 19 September 2013 15:15 (30 minutes)*

**Presenter:** Dr MAJUMDER, Abhijit (Wayne State University)

Contribution ID: 46

Type: **not specified**

## Summary of Snowmass2013 High Energy Frontier

*Friday, 20 September 2013 14:30 (45 minutes)*

**Presenter:** Prof. BROCK, Raymond (Michigan State University)

Contribution ID: 47

Type: **not specified**

## **A vision for future of particle physics**

*Friday, 20 September 2013 15:15 (45 minutes)*

**Presenter:** Prof. BJORKEN, James

Contribution ID: 48

Type: **not specified**

## **Polarised Drell-Yan physics at COMPASS**

*Tuesday, 17 September 2013 15:15 (20 minutes)*

**Presenter:** FRANCO, Celso

Contribution ID: 49

Type: **not specified**

## Boost2013 Summary

*Monday, 16 September 2013 14:30 (30 minutes)*

**Presenter:** LOCH, Peter

Contribution ID: 50

Type: **not specified**

## **Physics implications of correlation data from the RHIC and LHC heavy-ion programs**

*Thursday, 19 September 2013 14:50 (25 minutes)*

**Presenter:** Dr RAY, Lanny (The University of Texas at Austin)

Contribution ID: 51

Type: **not specified**

## Recent results from ALICE

*Thursday, 19 September 2013 10:12 (18 minutes)*

**Presenter:** PLOSKON, Mateusz (Lawrence Berkeley National Laboratory)



Contribution ID: 52

Type: **not specified**

## **Measurement of anisotropic radial flow in relativistic heavy ion collisions**

**Presenter:** Mr WU, Yuanfang (Institute of particle physics, Huazhong normal university)

Contribution ID: 53

Type: **not specified**

## Multi-lepton new physics searches

*Thursday, 19 September 2013 12:00 (20 minutes)*

**Presenter:** MEADE, Patrick

Contribution ID: 54

Type: **not specified**

## Jet and new physics searches

*Thursday, 19 September 2013 12:40 (20 minutes)*

**Presenter:** KROHN, David

Contribution ID: 58

Type: **not specified**

## **Improved isolation of the p-p Underlying Event based on minimum-bias trigger-associated hadron correlations**

**Presenter:** Prof. TRAINOR, Thomas (University of Washington)

Contribution ID: 59

Type: **not specified**

## **High cumulants from the 3-dimensional $O(1, 2, 4)$ spin models**

*Monday, 16 September 2013 19:15 (10 minutes)*

**Presenter:** XUE, Pan

Contribution ID: **61**

Type: **not specified**

## **Particle production at large momentum transfer.**

*Monday, 16 September 2013 19:00 (15 minutes)*

**Primary author:** WERNER, Sauter

**Presenter:** Prof. WERNER KRAMBECK, Sauter (Universidade Federal de Pelotas)

Contribution ID: 62

Type: **not specified**

## **Recent results from the search for the critical point of strongly interacting matter at the CERN SPS**

*Wednesday, 18 September 2013 11:00 (20 minutes)*

**Presenter:** SEYBOTH, Peter

Contribution ID: **63**

Type: **not specified**

## Theory overview of SM Higgs results

*Monday, 16 September 2013 11:20 (30 minutes)*

**Presenter:** PETRIELLO, Frank



Contribution ID: **64**

Type: **not specified**

## Theory overview of BSM Higgs results

*Monday, 16 September 2013 12:30 (30 minutes)*

**Presenter:** CARENA, Marcela

Contribution ID: 66

Type: **not specified**

## **Minimum-bias angular and trigger-associated correlations from 200 GeV p-p collisions: jets, flows, centrality and the underlying event**

*Monday, 16 September 2013 19:25 (10 minutes)*

**Presenter:** PRINDLE, Duncan

Contribution ID: 67

Type: **not specified**

## **The Status of QCD Diffractive Physics in DIS on Protons and Nuclei**

*Tuesday, 17 September 2013 17:35 (25 minutes)*

**Presenter:** KOVCHEGOV, Yuri

Contribution ID: **68**

Type: **not specified**

## **Central exclusive production and the Durham diffractive program**

*Tuesday, 17 September 2013 18:00 (20 minutes)*

**Presenter:** HARLAND-LANG, Lucian

Contribution ID: 69

Type: **not specified**

## **Diffraction cross sections implemented in PYTHIA8-MBR vs LHC results**

*Tuesday, 17 September 2013 18:20 (20 minutes)*

**Presenter:** Prof. GOULIANOS, Konstantin (The Rockefeller University)

Contribution ID: 70

Type: **not specified**

## **Improved isolation of the p-p Underlying Event based on minimum-bias trigger-associated hadron correlations**

*Tuesday, 17 September 2013 11:25 (25 minutes)*

**Presenter:** TRAINOR, Tom

Contribution ID: 71

Type: **not specified**

## **Measurement of anisotropic radial flow in relativistic heavy ion collisions**

*Friday, 20 September 2013 09:00 (20 minutes)*

**Presenter:** Mr WU, Yuanfang (Institute of particle physics, Huazhong normal university)

Contribution ID: 72

Type: **not specified**

## **Measurement of charged kaon correlations at small relative momentum in the SELEX experiment**

*Tuesday, 17 September 2013 12:35 (20 minutes)*

**Presenter:** Mr NIGMATKULOV, Grigory (National Research Nuclear University "MEPhI")



Contribution ID: 73

Type: **not specified**

## Proton structure in the Higgs era

*Tuesday, 17 September 2013 14:30 (25 minutes)*

**Presenter:** Dr FORTE, Stefano (Dipartimento di Fisica, Università di Milano and INFN, Sezione di Milano)

Contribution ID: 75

Type: **not specified**

## **Polarised Drell-Yan physics at COMPASS**

**Presenter:** FRANCO, Celso

Contribution ID: 76

Type: **not specified**

## Measurement of Charged Particle Spectra in DIS

*Friday, 20 September 2013 10:00 (20 minutes)*

**Presenter:** JUNG, Hannes (DESY)

Contribution ID: 77

Type: **not specified**

## **The challenges of high luminosity and jets**

**Presenter:** XX

Contribution ID: 78

Type: **not specified**

## **Polarised Drell-Yan physics at COMPASS**

**Presenter:** FRANCO, Celso

Contribution ID: 79

Type: **not specified**

# The phase diagram of QCD from lattice simulations

*Wednesday, 18 September 2013 11:20 (20 minutes)*

**Presenter:** Prof. D'ELIA, Massimo (University of Pisa & INFN)

Contribution ID: **80**

Type: **not specified**

## **New Observables for Jet Substructure**

*Monday, 16 September 2013 09:15 (25 minutes)*

**Presenter:** THALER, Jesse

Contribution ID: **81**

Type: **not specified**

## **Qjets: a multiparticle tool**

*Monday, 16 September 2013 17:00 (25 minutes)*

**Presenter:** ROY, Tuhin



Contribution ID: **82**

Type: **not specified**

## **Recent developments in Monte Carlo simulations**

*Wednesday, 18 September 2013 10:05 (25 minutes)*

**Presenter:** THOMPSON, Jennifer (Duhram)

Contribution ID: **83**

Type: **not specified**

## **Review of parton showers**

*Monday, 16 September 2013 16:30 (30 minutes)*

**Presenter:** NAGY, Zoltan (DESY)

Contribution ID: **84**

Type: **not specified**

# **The Potential Importance of Low Luminosity and High Energy at the LHC**

*Friday, 20 September 2013 09:20 (20 minutes)*

**Presenter:** Dr WHITE, Alan (ANL)

Contribution ID: **86**

Type: **not specified**

## HERAFitter poster

*Monday, 16 September 2013 19:35 (10 minutes)*

**Presenter:** STAROVOITOV, Pavel (DESY)

Contribution ID: **88**

Type: **not specified**

## **Exploring the phase structure and dynamics of QCD**

*Wednesday, 18 September 2013 11:40 (20 minutes)*

**Presenter:** PAWLOWSKI, Jan

Contribution ID: **89**

Type: **not specified**

## **Recent RHIC BES-I Results**

*Wednesday, 18 September 2013 12:00 (20 minutes)*

**Presenter:** CEBRA, Dan

Contribution ID: **90**

Type: **not specified**

# Energy Dependence of Strangeness Production

*Wednesday, 18 September 2013 12:20 (20 minutes)*

**Presenter:** HUANG, Huan Zhong

Contribution ID: **91**

Type: **not specified**

## Heavy Flavor Productions at RHIC

*Wednesday, 18 September 2013 12:40 (20 minutes)*

**Presenter:** YE, Zhenyu



Contribution ID: 92

Type: **not specified**

## High multiplicity in pp interactions at U-70

**Presenter:** Dr KOKOULINA, Elena (JINR)

Contribution ID: 93

Type: **not specified**

## **Measurement of inclusive and exclusive hadronic cross sections at BABAR**

*Friday, 20 September 2013 10:20 (20 minutes)*

**Presenter:** GARY, Bill

Contribution ID: 96

Type: **not specified**

## **Kaon Freeze-out Dynamics in $\sqrt{s_{NN}}=200\text{GeV}$ Au+Au Collisions at RHIC**

*Thursday, 19 September 2013 17:15 (20 minutes)*

**Presenter:** SUMBERA, Michal

Contribution ID: 97

Type: **not specified**

## **Study of limiting fragmentation in p+Pb collisions at 158 GeV**

*Thursday, 19 September 2013 17:35 (20 minutes)*

**Presenter:** RYBCZYŃSKI, Maciej (Jan Kochanowski University)

Contribution ID: **98**

Type: **not specified**

# Collective dynamics of the p-Pb collisions at the LHC

*Thursday, 19 September 2013 16:55 (20 minutes)*

**Presenter:** BRONIOWSKI, Wojciech

Contribution ID: 99

Type: **not specified**

## **APPLGRID: A posteriori inclusion of parton densities in NLO QCD final state calculations**

*Monday, 16 September 2013 19:45 (10 minutes)*

**Presenter:** STAROVOITOV, Pavel (DESY)

Contribution ID: **101**

Type: **not specified**

## **Boosted HH->bb bb: a new topology in searches for TeV-scale resonances at the LHC**

*Monday, 16 September 2013 17:50 (25 minutes)*

**Presenter:** WARDROPE, David

Contribution ID: **102**

Type: **not specified**

## PDFs for Higgs physics

*Monday, 16 September 2013 12:10 (20 minutes)*

**Presenter:** HUSTON, Joey



Contribution ID: **103**

Type: **not specified**

## **Measurement of the strong coupling $\alpha_S$ from the three-jet rate in $e^+e^-$ - annihilation using JADE data**

*Friday, 20 September 2013 09:40 (20 minutes)*

**Presenter:** KLUTH, Stefan

Contribution ID: **104**

Type: **not specified**

## **ATLAS measurements of boosted W/Z bosons in pp collisions**

**Presenter:** DE LORENZI, Francesco

Contribution ID: **105**

Type: **not specified**

## **Measurement of the strong coupling $\alpha_S$ from the three-jet rate in $e^+e^-$ - annihilation using JADE data**

*Monday, 16 September 2013 19:55 (10 minutes)*

**Presenter:** KLUTH, Stefan

Contribution ID: **106**

Type: **not specified**

## **Searching for $W'$ bosons at LHC with Single Top Production**

*Monday, 16 September 2013 20:05 (10 minutes)*

**Presenter:** DUFFTY, Daniel

Contribution ID: **107**

Type: **not specified**

## Computing the Universe

*Friday, 20 September 2013 12:35 (25 minutes)*

**Presenter:** POPE, Adrian (ANL)

Contribution ID: **108**

Type: **not specified**

## Welcome to IIT

*Monday, 16 September 2013 09:00 (10 minutes)*

**Presenter:** Prof. BETTS, Russell (Dean)

Contribution ID: **109**

Type: **not specified**

## Welcome to ISMD

*Monday, 16 September 2013 09:10 (5 minutes)*

**Presenter:** Prof. SULLIVAN, Zack (Illinois Institute of Technology)

Contribution ID: 110

Type: **not specified**

**Welcome at Hermann Hall at IIT. We will have some refreshment / snack and the organizers can help you with some useful information (how to reach your hotel etc.). If you want, you can also register. You can park your car from both sides of the Hermann hall (State Str. or Federal St). Parking is free on Sunday.**



Contribution ID: 111

Type: **not specified**

**Welcome at Hermann Hall at IIT. We will have some refreshment / snack and the organizers can help you with some useful information (how to reach your hotel etc.). If you want, you can also register. You can park your car from both sides of the Hermann hall (State Str. or Federal St). Parking is free on Sunday.**

*Sunday, 15 September 2013 18:00 (1h 30m)*

Contribution ID: 112

Type: **not specified**

## **Study of pp interactions at high multiplicity at U-70**

*Monday, 16 September 2013 20:15 (5 minutes)*

**Presenter:** KOKOULINA, Elena

Contribution ID: **113**

Type: **not specified**

## **Stochastic mechanizm of color confinement**

*Monday, 16 September 2013 20:20 (20 minutes)*

**Presenter:** Prof. KUVSHINOV, V.I.

Contribution ID: **114**

Type: **not specified**

## **Proton structure from multiparticle contribution to elastic pp-scattering at 7 TeV**

*Monday, 16 September 2013 20:40 (20 minutes)*

**Presenter:** Prof. DREMIN, Igor