

# **International Workshop on Heavy Ion Physics at LHC**

## **Report of Contributions**

Contribution ID: 0

Type: **not specified**

## Opening address

*Wednesday, 21 May 2008 08:30 (10 minutes)*

**Presenters:** Prof. ZHANG, Huanqiao (Chinese academician) (CIAE, China); PRESIDENT OF CCNU, (CCNU, China); Prof. CAI, Xu (CCNU, China)

**Session Classification:** Experiments Overview I

Contribution ID: 1

Type: **not specified**

## **STAR at RHIC**

*Thursday, 22 May 2008 08:30 (40 minutes)*

**Presenter:** Prof. XU, Nu (LBNL, USA)

**Session Classification:** Bulk properties and collective flow II

Contribution ID: 2

Type: **not specified**

## ALICE Status

*Wednesday, 21 May 2008 09:00 (40 minutes)*

**Presenter:** DE GROOT, Hans (CERN)

**Session Classification:** Experiments Overview I

Contribution ID: 3

Type: **not specified**

## High $p_{\text{T}}$ and photons physics at ALICE

*Wednesday, 21 May 2008 11:00 (30 minutes)*

**Presenter:** SCHUTZ, Yves (IN2P3/CERN)

**Session Classification:** Experiments Overview II

Contribution ID: 4

Type: **not specified**

# Heavy Quarks and Quarkonia at ALICE

*Wednesday, 21 May 2008 11:30 (30 minutes)*

**Presenter:** ANTINORI, Federico (INFN Padova, Italy)

**Session Classification:** Experiments Overview II

Contribution ID: 5

Type: **not specified**

**TBA**

Contribution ID: 6

Type: **not specified**

**TBA**



Contribution ID: 7

Type: **not specified**

**TBA**

Contribution ID: 8

Type: **not specified**

## Heavy flavour physics with the ALICE Muon Spectrometer

*Friday, 23 May 2008 09:30 (30 minutes)*

**Presenter:** BASTID, Nicole (Laboratoire de Physique Corpusculaire (LPC))

**Session Classification:** Heavy flavor production and detection

Contribution ID: 9

Type: **not specified**

# To be announced

Contribution ID: **10**

Type: **not specified**

## **Hydrodynamical Evolution in EPOS**

*Saturday, 24 May 2008 09:00 (30 minutes)*

**Presenter:** Prof. WERNER, Klaus (SUBATECH)

**Session Classification:** Bulk properties and collective flow IV

Contribution ID: **11**

Type: **not specified**

**TBA**

**Presenter:** ZHANG, Yifei

Contribution ID: 12

Type: **not specified**

**TBA**

Contribution ID: 13

Type: **not specified**

## TOF Physics Progress at STAR

*Friday, 23 May 2008 14:30 (30 minutes)*

**Presenter:** Dr ZHANG, Yifei (USTC, China)

**Session Classification:** Results from RHIC

Contribution ID: 14

Type: **not specified**

## **Evidence of conical emission from three-particle azimuthal correlation at STAR**

*Friday, 23 May 2008 15:00 (30 minutes)*

**Presenter:** Dr MA, Guoliang (SINAP, China)

**Session Classification:** Results from RHIC



Contribution ID: 15

Type: **not specified**

# Phi meson and strange quark dynamics at RHIC

*Wednesday, 21 May 2008 09:40 (30 minutes)*

**Presenter:** Prof. MA, Yugang (SINAP, China)

**Session Classification:** Experiments Overview I

Contribution ID: 16

Type: **not specified**

## **The crossover from hadronic phase to partonic phase and the structure of sQGP**

*Saturday, 24 May 2008 08:30 (30 minutes)*

**Presenter:** Prof. LIU, Lianshou (CCNU, China)

**Session Classification:** Bulk properties and collective flow IV

Contribution ID: 17

Type: **not specified**

# QCD Phase Transition in the Dyson-Schwinger Equation Approach

*Thursday, 22 May 2008 16:20 (30 minutes)*

**Presenter:** Prof. LIU, Yuxin (PKU, China)

**Session Classification:** QCD at High temperature and density

Contribution ID: 18

Type: **not specified**

## **A model study of the equation of state of QCD at finite chemical potential and zero temperature and its application in quark star**

*Thursday, 22 May 2008 16:50 (30 minutes)*

**Presenter:** Prof. ZONG, Hongshi (NJU, China)

**Session Classification:** QCD at High temperature and density

Contribution ID: 19

Type: **not specified**

## Quark potential in a quark-meson plasma

*Thursday, 22 May 2008 17:50 (25 minutes)*

**Presenter:** Dr MU, Chengfu (Tsinghua, China)

**Session Classification:** QCD at High temperature and density

Contribution ID: 20

Type: **not specified**

## **Baryon to meson ratio in pp and AA collisions at RHIC and LHC**

*Wednesday, 21 May 2008 14:00 (30 minutes)*

**Presenter:** Prof. LEVAI, Peter (KFKI, Hungary)

**Session Classification:** Bulk properties and collective flow I

Contribution ID: 21

Type: **not specified**

## **Universcal scaling distribution and particle production mechanism**

*Wednesday, 21 May 2008 15:00 (30 minutes)*

**Presenter:** Prof. YANG, Chunbin (Central China Normal University)

**Session Classification:** Bulk properties and collective flow I

Contribution ID: 22

Type: **not specified**

## Heavy ion physics in ATLAS

*Wednesday, 21 May 2008 14:30 (30 minutes)*

**Presenter:** Prof. JIA, Jiangyong (BNL, USA)

**Session Classification:** Bulk properties and collective flow I



Contribution ID: 23

Type: **not specified**

## **Chiral symmetry and study of low masses in the ALICE muon spectrometer**

*Wednesday, 21 May 2008 15:30 (25 minutes)*

**Presenter:** Dr NENDAZ, Fabian (IPN Lyon)

**Session Classification:** Bulk properties and collective flow I

Contribution ID: 24

Type: **not specified**

## Some predictions for heavy ion collisions at LHC

*Wednesday, 21 May 2008 10:30 (30 minutes)*

**Presenter:** Prof. KO, Che-Ming (TAMU, USA)

**Session Classification:** Experiments Overview II

Contribution ID: 25

Type: **not specified**

## **Scaling and fluctuation of anisotropic flows in relativistic heavy-ion collisions**

*Thursday, 22 May 2008 09:10 (30 minutes)*

**Presenter:** Prof. CHEN, Liewen (SJTU, China)

**Session Classification:** Bulk properties and collective flow II

Contribution ID: 26

Type: **not specified**

## **Parton scattering effect on the forward-backward multiplicity correlation in p+p collisions at RHIC**

*Thursday, 22 May 2008 09:40 (30 minutes)*

**Presenter:** Dr YAN, Yuliang (CIAE, China)

**Session Classification:** Bulk properties and collective flow II

Contribution ID: 27

Type: **not specified**

## **Jet-correlation measurements at RHIC**

*Friday, 23 May 2008 14:00 (30 minutes)*

**Presenter:** Prof. WANG, Fuqiang (Purdue Univ., USA)

**Session Classification:** Results from RHIC

Contribution ID: 28

Type: **not specified**

## **EMC effect and jet energy loss in dAu collisions at RHIC**

*Thursday, 22 May 2008 14:00 (30 minutes)*

**Presenter:** Prof. PAPP, Gabor (Eotvos Univ., Hungary)

**Session Classification:** Jet and high  $p_T$  physics

Contribution ID: 29

Type: **not specified**

## **Punch-through jet in A+A collision at RHIC/LHC**

*Thursday, 22 May 2008 14:30 (30 minutes)*

**Presenter:** Prof. ZHANG, Hanzhong (CCNU,China)

**Session Classification:** Jet and high  $p_{T}$  physics

Contribution ID: 30

Type: **not specified**

## Photon physics with PHOS

*Wednesday, 21 May 2008 16:15 (30 minutes)*

**Presenter:** Prof. SUGITATE, Toru (Hiroshima Univ., Japan)

**Session Classification:** EM probes and detection



Contribution ID: **31**

Type: **not specified**

## **Direct photon production in heavy-ion collisions**

*Wednesday, 21 May 2008 17:15 (25 minutes)*

**Presenter:** Prof. LIU, Fuming (CCNU, China)

**Session Classification:** EM probes and detection

Contribution ID: 32

Type: **not specified**

## **Gamma-hadron correlation measurement with ALICE at LHC**

*Wednesday, 21 May 2008 17:40 (25 minutes)*

**Presenter:** MAO, Yaxian (CCNU, China)

**Session Classification:** EM probes and detection

Contribution ID: 33

Type: **not specified**

## **Global polarization of QGP in AA collision**

*Thursday, 22 May 2008 10:30 (30 minutes)*

**Presenter:** Prof. LIANG, Zuotang (SDU, China)

**Session Classification:** Bulk properties and collective flow III

Contribution ID: 34

Type: **not specified**

## **A new treatment of quark polarization in non-central collision**

*Thursday, 22 May 2008 11:00 (30 minutes)*

**Presenter:** Prof. WANG, Qun (USTC, China)

**Session Classification:** Bulk properties and collective flow III

Contribution ID: 35

Type: **not specified**

## **The influence of net-quarks on longitudinal hadron production in a quark combination model**

*Thursday, 22 May 2008 11:30 (30 minutes)*

**Presenter:** Dr SONG, Jun (SDU, China)

**Session Classification:** Bulk properties and collective flow III

Contribution ID: 36

Type: **not specified**

## **The influence of net-quark on longitudinal hadron production in a quark combination model**

**Presenter:** SONG, Jun

Contribution ID: 37

Type: **not specified**

## Heavy flavor: from SPS to LHC

*Friday, 23 May 2008 08:30 (30 minutes)*

**Presenter:** Prof. ZHUANG, Pengfei (Tsinghua, China)

**Session Classification:** Heavy flavor production and detection

Contribution ID: **38**

Type: **not specified**

## Heavy quark system at $T_c$

*Friday, 23 May 2008 09:00 (30 minutes)*

**Presenter:** Prof. LEE, Su Houng (Yonsei Univ., Korea)

**Session Classification:** Heavy flavor production and detection



Contribution ID: 39

Type: **not specified**

## **EMCAL design and performance**

*Friday, 23 May 2008 10:30 (30 minutes)*

**Presenter:** Prof. ROY, Christelle (SUBATECH)

**Session Classification:** Experimental facilities at ALICE I

Contribution ID: 40

Type: **not specified**

## VZERO overview

*Friday, 23 May 2008 11:00 (30 minutes)*

**Presenter:** CHEYNIS, Brigitte (Institut National de Physique Nucl et Phys. Part. (IN2P3-CNRS))

**Session Classification:** Experimental facilities at ALICE I

Contribution ID: 41

Type: **not specified**

## PHOS overview

*Friday, 23 May 2008 11:30 (30 minutes)*

**Presenter:** Prof. ZHOU, Daicui (CCNU, China)

**Session Classification:** Experimental facilities at ALICE I

Contribution ID: 42

Type: **not specified**

## **Chiral symmetry and study of low masses in the ALICE muon spectrometer**

**Presenter:** NENDA Z, Fabian

Contribution ID: 43

Type: **not specified**

## **ALICE Computing model**

*Friday, 23 May 2008 15:50 (30 minutes)*

**Presenter:** Prof. SCHUTZ, Yves (CERN, SUBATECH)

**Session Classification:** Experimental facilities at ALICE II

Contribution ID: 44

Type: **not specified**

## Physics potential with EMCAL

*Friday, 23 May 2008 16:20 (30 minutes)*

**Presenter:** Prof. GERMAIN, Marie (Laboratoire de Physique Subatomique et des Technologies Associées)

**Session Classification:** Experimental facilities at ALICE II

Contribution ID: 45

Type: **not specified**

## **Performance of the ALICE PHOS detector**

*Friday, 23 May 2008 16:50 (30 minutes)*

**Presenter:** Prof. YIN, Zhongbao (CCNU, China)

**Session Classification:** Experimental facilities at ALICE II

Contribution ID: 46

Type: **not specified**

## **$Z^0 \rightarrow u^+ u^-$ reconstruction through central barrel detector of ALICE**

*Friday, 23 May 2008 17:20 (30 minutes)*

**Presenter:** Prof. XU, Chuncheng (CCNU, China)

**Session Classification:** Experimental facilities at ALICE II



Contribution ID: 47

Type: **not specified**

## **Relativistic hydrodynamics at RHIC and LHC**

*Saturday, 24 May 2008 10:15 (30 minutes)*

**Presenter:** Prof. HIRANO, Tetsufumi (Tokyo Univ., Japan)

**Session Classification:** Bulk properties and collective flow V

Contribution ID: 48

Type: **not specified**

## **A test of hydrodynamic behavior in the formed matter at relativistic heavy-ion collisions**

*Saturday, 24 May 2008 10:45 (30 minutes)*

**Presenter:** Prof. WU, Yuanfang (CCNU, China)

**Session Classification:** Bulk properties and collective flow V

Contribution ID: 49

Type: **not specified**

## **Universal scaling distribution and particle production mechanism**

**Presenter:** YANG, Chunbin

Contribution ID: 50

Type: **not specified**

## Statistical interpretation of forward-backward multiplicity correlations at RHIC

*Thursday, 22 May 2008 15:00 (25 minutes)*

**Presenter:** Prof. FU, Jinghua (CCNU, China)

**Session Classification:** Jet and high  $p_{T}$  physics

Contribution ID: 51

Type: **not specified**

## **Medium modified fragmentation functions**

**Presenter:** XIANG, Wenchang

Contribution ID: 52

Type: **not specified**

## **Medium modified fragmentation functions**

*Saturday, 24 May 2008 09:30 (25 minutes)*

**Presenter:** Dr XIANG, Wenchang (Uni-Bielefeld)

**Session Classification:** Bulk properties and collective flow IV

Contribution ID: 53

Type: **not specified**

## Closing address

**Presenter:** ZHUANG, Pengfei

Contribution ID: 54

Type: **not specified**

## **Thermalization Component Model at Relativistic Heavy Ion Collisions**

*Thursday, 22 May 2008 15:25 (30 minutes)*

**Presenter:** Prof. FENG, Shengqin (CTGU, China)

**Session Classification:** Jet and high  $p_T$  physics



Contribution ID: 55

Type: **not specified**

## **J/psi momentum distribution in heavy ion collisions at LHC**

*Wednesday, 21 May 2008 16:45 (30 minutes)*

**Presenter:** Prof. XU, Xiaoming (SHU, China)

**Session Classification:** EM probes and detection

Contribution ID: 56

Type: **not specified**

## **Nuclear EOS from heavy ion collisions at GeV/u regime**

*Thursday, 22 May 2008 17:20 (30 minutes)*

**Presenter:** Prof. XIAO, Zhigang (Tsinghua University)

**Session Classification:** QCD at High temperature and density

Contribution ID: 57

Type: **not specified**

## Summary

*Saturday, 24 May 2008 11:15 (30 minutes)*

**Presenters:** Prof. ANTINORI, Federico (INFN Padova, Italy); Prof. ZHUANG, Pengfei (Tsinghua, China)

**Session Classification:** Bulk properties and collective flow V