

# Heavy ions: Experiments Confront Theory



## Report of Contributions

Contribution ID: 0

Type: **not specified**

## Welcome and Introduction

*Wednesday 9 November 2011 14:00 (15 minutes)*

**Presenter:** Prof. GAARDHOJE, Jens Jorgen (Niels Bohr Institute)

**Session Classification:** Ph.D. Defence by Hans Hjersing Dalsgaard

Contribution ID: 1

Type: **not specified**

## Presentation by Hans

*Wednesday 9 November 2011 14:15 (45 minutes)*

**Presenter:** Mr DALSGAARD, Hans Hjersing (Niels Bohr Institute)

**Session Classification:** Ph.D. Defence by Hans Hjersing Dalsgaard

Contribution ID: 2

Type: **not specified**

## Questions from the opponents

*Wednesday 9 November 2011 15:00 (30 minutes)*

**Session Classification:** Ph.D. Defence by Hans Hjersing Dalsgaard

Contribution ID: 3

Type: **not specified**

## Questions from the Audience

*Wednesday 9 November 2011 15:30 (15 minutes)*

**Session Classification:** Ph.D. Defence by Hans Hjersing Dalsgaard

Contribution ID: 4

Type: **not specified**

## The committee votes

*Wednesday 9 November 2011 15:45 (15 minutes)*

**Session Classification:** Ph.D. Defence by Hans Hjersing Dalsgaard

Contribution ID: 5

Type: **not specified**

## Higher harmonics of sound perturbations at RHIC/LHC heavy ion collisions

*Monday 7 November 2011 09:30 (1 hour)*

Analytic means are applied to solve for all harmonics of the flow: which then are applied to calculation of the correlation functions and the power spectrum. Like in the Big Bang, acoustic peaks are predicted. Sounds and matter excitation from jet quenching will also be discussed.

**Presenter:** Prof. SHURYAK, Edward (Stony Brook)

**Session Classification:** Morning

Contribution ID: 6

Type: **not specified**

## Jet Suppression at ATLAS

*Monday 7 November 2011 11:00 (45 minutes)*

**Presenter:** Mr HANSEN, Peter (Niels Bohr Institute)

**Session Classification:** Morning



Contribution ID: 7

Type: **not specified**

## **New Physics Opportunities in the Charm/Tau Region: The BESIII - Experiment at IHEP/Beijing**

*Monday 7 November 2011 11:45 (45 minutes)*

**Presenter:** Prof. KUEHN, Wolfgang (Univ. Giessen)

**Session Classification:** Morning

Contribution ID: 8

Type: **not specified**

## Angular correlations

*Monday 7 November 2011 14:00 (45 minutes)*

**Presenter:** Prof. SNELLINGS, Raimond (Utrecht University)

**Session Classification:** Afternoon

Contribution ID: 9

Type: **not specified**

## Charged Particle Multiplicities

**Presenter:** NYGAARD, Casper (Niels Bohr Institute)

Contribution ID: **10**

Type: **not specified**

## **The DIPSY event generator for minimum bias and heavy ion collisions**

*Monday 7 November 2011 14:45 (45 minutes)*

**Presenter:** Prof. LÖNNBLAD, Lief (Lund University)

**Session Classification:** Afternoon

Contribution ID: 11

Type: **not specified**

## An Effective Model for Deconfinement

*Tuesday 8 November 2011 09:30 (1 hour)*

I give a physical description of an effective model for the deconfining phase transition. Detailed results are given for the pure glue theory, and a qualitative description given of QCD.

**Presenter:** Prof. PISARSKI, Robert (Brookhaven National Lab.)

**Session Classification:** Morning

Contribution ID: 12

Type: **not specified**

## Quantum decoherence from classical coherence in heavy ion collisions

*Tuesday 8 November 2011 11:00 (45 minutes)*

We discuss an ab initio approach to the formation and thermalization of quark-gluon matter in heavy ion collisions. The phenomenological implications of our studies are emphasized.

**Presenter:** Prof. VENUGOPALAN, Raju (Brookhaven National Lab)

**Session Classification:** Morning

Contribution ID: 13

Type: **not specified**

## **In-Medium Energy Loss and Correlations in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV**

*Tuesday 8 November 2011 11:45 (45 minutes)*

**Presenter:** Dr GROSSE-OETRINGHAUS, Jan Fiete (CERN)

**Session Classification:** Morning

Contribution ID: 14

Type: **not specified**

## **Heavy ion collisions at the LHC - selected topics from a theorist's perspective**

*Tuesday 8 November 2011 14:00 (45 minutes)*

**Presenter:** Prof. WIEDEMANN, Urs Achim (CERN)

**Session Classification:** Afternoon



Contribution ID: 15

Type: **not specified**

## Eccentricities in heavy ions from DIPSY

*Tuesday 8 November 2011 14:45 (45 minutes)*

Ellipticity and triangularity are calculated using the new heavy ion initial state event generator DIPSY. The ellipticity is similar to CGC, but the triangularity is significantly larger than both Glauber and CGC. Data seems to favor the DIPSY eccentricities over both Glauber and CGC.

**Presenter:** Dr FLENSBURG, Christoffer (Lund University)

**Session Classification:** Afternoon

Contribution ID: 16

Type: **not specified**

## **Lattice QCD at non zero chemical potential - status and challenges**

*Tuesday 8 November 2011 16:00 (30 minutes)*

**Presenter:** Prof. SPLITTORFF, Kim (NBI)

**Session Classification:** Afternoon

Contribution ID: 17

Type: **not specified**

## Jets in a quark-gluon plasma

*Monday 7 November 2011 16:00 (45 minutes)*

We describe the coherent radiation off a quark-antiquark antenna traversing a QCD medium. Features of the spectrum are discussed and relevant scales of the problem are identified. In particular, the regimes where interference effects prevail are shown to be relevant in light of the data on inclusive jets in heavy-ion collisions at the LHC.

**Presenter:** Dr TYWONIUK, Konrad (Lund University)

**Session Classification:** Afternoon

Contribution ID: **18**

Type: **not specified**

## **Morphology of HIC event**

*Wednesday 9 November 2011 09:30 (1 hour)*

**Presenter:** Prof. NASELSKY, Pavel (NBI)

**Session Classification:** Morning

Contribution ID: **19**

Type: **not specified**

## **Fluctuations around Bjorken flow and the onset of turbulent phenomena**

*Wednesday 9 November 2011 11:00 (45 minutes)*

**Presenter:** FLOERCHINGER, Stefan (CERN)

**Session Classification:** Morning

Contribution ID: 20

Type: **not specified**

## Geometry, Geometry, Geometry

*Wednesday 9 November 2011 11:45 (45 minutes)*

**Presenter:** Prof. NAGLE, James (University of Colorado)

**Session Classification:** Morning

Contribution ID: **21**

Type: **not specified**

**TBA**

*Tuesday 8 November 2011 16:30 (30 minutes)*

**Presenter:** Dr GUFFANTI, Alberto (Niels Bohr Institute)

**Session Classification:** Afternoon