

# **Conceptual advances in lattice gauge theory (LGT14)**

## **Report of Contributions**

Contribution ID: 0

Type: **not specified**

# Energy-momentum tensor on the lattice from the gradient flow

*Monday, July 21, 2014 10:30 AM (50 minutes)*

**Presenter:** SUZUKI, Hiroshi

Contribution ID: 1

Type: **not specified**

## **The density-of-states method as a practical solution for quantum field theories with a sign problem?**

*Monday, July 21, 2014 11:20 AM (30 minutes)*

**Presenter:** LANGFELD, Kurt

Contribution ID: 2

Type: **not specified**

## **A new approach to thermal quantum field theories**

*Tuesday, July 22, 2014 10:30 AM (50 minutes)*

**Presenter:** PEPE, Michele

Contribution ID: 3

Type: **not specified**

## **Renormalization of the energy-momentum tensor with the Wilson flow**

*Wednesday, July 23, 2014 10:30 AM (30 minutes)*

**Presenter:** RAGO, Antonio

Contribution ID: 4

Type: **not specified**

## **Signal/noise optimization strategies for stochastically estimated correlation functions**

*Wednesday, July 23, 2014 11:00 AM (30 minutes)*

**Presenter:** ENDRES, Michael

Contribution ID: 5

Type: **not specified**

## **The complex Langevin method: successes and open problems**

*Thursday, July 24, 2014 10:30 AM (50 minutes)*

**Presenter:** SEILER, Erhard

Contribution ID: 6

Type: **not specified**

## **Quantum entanglement entropy for SU(3) gauge theories**

*Friday, July 25, 2014 10:30 AM (30 minutes)*

**Presenter:** ITOU, Etsuko



Contribution ID: 7

Type: **not specified**

## Topology at large N

*Friday, July 25, 2014 11:00 AM (30 minutes)*

**Presenter:** LUCINI, Biagio

Contribution ID: 8

Type: **not specified**

# **Symanzik improvement and the gradient flow (part I)**

*Monday, July 28, 2014 10:30 AM (30 minutes)*

**Presenter:** SINT, Stefan

Contribution ID: 9

Type: **not specified**

## **Symanzik improvement and the gradient flow (part II)**

*Monday, July 28, 2014 11:00 AM (30 minutes)*

**Presenter:** RAMOS, Alberto

Contribution ID: 11

Type: **not specified**

## **Tree level improvement of the gradient flow**

*Tuesday, July 29, 2014 10:30 AM (30 minutes)*

**Presenter:** NOGRADI, Daniel

Contribution ID: 12

Type: **not specified**

## **The Dirac sprectrum of complex Langevin simulations**

*Tuesday, July 29, 2014 11:00 AM (30 minutes)*

**Presenter:** SPLITTORFF, Kim

Contribution ID: 13

Type: **not specified**

## **Complex Langevin for complex actions**

*Wednesday, July 30, 2014 10:30 AM (50 minutes)*

**Presenter:** AARTS, Gert

Contribution ID: 14

Type: **not specified**

## From the Quark Model to Lattice QCD

*Thursday, July 31, 2014 10:10 AM (40 minutes)*

**Presenter:** HEINRICH, Leutwyler (BERN University)

Contribution ID: 15

Type: **not specified**

## **Lattice QCD from algorithm and machine perspectives**

*Thursday, July 31, 2014 11:50 AM (40 minutes)*

**Presenter:** UKAWA, Akira (RIKEN AICS, Kobe)



Contribution ID: 16

Type: **not specified**

## Noise, Statistics and Sign Problems

*Thursday, July 31, 2014 2:40 PM (40 minutes)*

**Presenter:** KAPLAN, David (Washington University, Seattle)

Contribution ID: 17

Type: **not specified**

## **On mountains and in quantum fields**

*Thursday, July 31, 2014 4:20 PM (40 minutes)*

**Presenter:** WEISZ, Peter (Max Plank Institute, Munich)

Contribution ID: **18**

Type: **not specified**

## **Finite-volume methods for hadrons and their interactions in lattice QCD**

*Thursday, July 31, 2014 2:00 PM (40 minutes)*

**Presenter:** AOKI, Sinya (Tsukuba University)

Contribution ID: 19

Type: **not specified**

## **The Schrödinger Functional and its Uses**

*Thursday, July 31, 2014 11:10 AM (40 minutes)*

**Presenter:** WITTIG, Hartmut (Mainz University)

Contribution ID: 20

Type: **not specified**

## Conformal field theory

*Thursday, July 31, 2014 3:40 PM (40 minutes)*

**Presenter:** MACK, Gerhard (DESY, Hamburg)

Contribution ID: 21

Type: **not specified**

## **On effects of heavy sea quarks at low energy**

*Thursday, July 24, 2014 3:15 PM (30 minutes)*

**Presenter:** SOMMER, Rainer

Contribution ID: 22

Type: **not specified**

## **Chiral Ward identities, automatic $O(a)$ improvement and the gradient flow**

*Wednesday, July 30, 2014 4:30 PM (30 minutes)*

**Presenter:** ANDREA, Shindler

Contribution ID: 23

Type: **not specified**

## Welcome

*Thursday, July 31, 2014 10:00 AM (10 minutes)*