

Quarks, Hadrons and the Phase Diagram of QCD

Report of Contributions

Contribution ID: 0

Type: **not specified**

Modelling the Phases of QCD

Monday, 31 August 2009 09:00 (40 minutes)

Presenter: WEISE, Wolfram (TU München)

Session Classification: Session 1

Contribution ID: 1

Type: **not specified**

Chiral and deconfinement aspects of (2+1) flavor QCD

Monday, 31 August 2009 09:40 (40 minutes)

Presenter: Prof. SCHAEFER, Bernd-Jochen (Graz University)

Session Classification: Session 1

Contribution ID: 2

Type: **not specified**

Implications of topological charge fluctuations on heavy ion collisions

Monday, 31 August 2009 10:50 (25 minutes)

Presenter: WARRINGA, Harmen (Frankfurt University)

Session Classification: Session 2

Contribution ID: 3

Type: **not specified**

Phase Diagram and Thermodynamics from the PNJL Model

Monday, 31 August 2009 11:15 (25 minutes)

Presenter: FUKUSHIMA, Kenji (Japan)

Session Classification: Session 2

Contribution ID: 4

Type: **not specified**

Universal aspects of many-flavor QCD

Monday, 31 August 2009 11:40 (25 minutes)

Presenter: GIES, Holger (Heidelberg University)

Session Classification: Session 2

Contribution ID: 5

Type: **not specified**

Describing gluons at zero and finite temperature

Monday, 31 August 2009 12:05 (25 minutes)

Presenter: MAAS, Axel (Graz University)

Session Classification: Session 2

Contribution ID: 6

Type: **not specified**

Infrared Behavior in QCD

Monday, 31 August 2009 12:30 (25 minutes)

Presenter: Prof. ZWANZIGER, Dan (New York University)

Session Classification: Session 2

Contribution ID: 7

Type: **not specified**

Hamiltonian Approach to Yang-Mills Theory in Coulomb Gauge

Monday, 31 August 2009 15:00 (40 minutes)

Presenter: REINHARDT, Hugo (Tübingen University)

Session Classification: Session 3

Contribution ID: 8

Type: **not specified**

Fluctuations near the chiral critical endpoint

Monday, 31 August 2009 15:40 (40 minutes)

Presenter: Prof. FRIMAN, Bengt (GSI, Darmstadt)

Session Classification: Session 3

Contribution ID: 9

Type: **not specified**

Can we locate the QCD critical endpoint with the Taylor expansion?

Monday, 31 August 2009 16:20 (25 minutes)

Presenter: Dr WAGNER, Matthias (TU Darmstadt)

Session Classification: Session 3

Contribution ID: **10**

Type: **not specified**

Dual Condensates

Monday, 31 August 2009 17:15 (40 minutes)

Presenter: Prof. WIPF, Andreas (Jena University)

Session Classification: Session 4

Contribution ID: 11

Type: **not specified**

Useful REsults from the AdS/CFT Correspondence?

Monday, 31 August 2009 17:55 (40 minutes)

Presenter: KAMINSKI, Matthias (MPP, Munich)

Session Classification: Session 4

Contribution ID: 12

Type: **not specified**

Screening in the Wind of Strongly Coupled Plasmas

Monday, 31 August 2009 18:35 (25 minutes)

Presenter: Prof. EWERZ, Carlo (EMMI, GSI, Darmstadt)

Session Classification: Session 4

Contribution ID: 13

Type: **not specified**

The transition temperature in lattice QCD

Tuesday, 1 September 2009 09:00 (40 minutes)

Presenter: Prof. FODOR, Zoltan (Wuppertal University)

Session Classification: Session 5

Contribution ID: 14

Type: **not specified**

The (magnetic) equation of state of (2+1)-flavor QCD

Tuesday, 1 September 2009 09:40 (40 minutes)

Presenter: Prof. KARSCH, Frithjof (Bielefeld University & GSI & BNL)

Session Classification: Session 5

Contribution ID: 16

Type: **not specified**

Information on the Phase Boundary from Hadron Yields or the Unreasonable Success of the Thermal Model

Tuesday, 1 September 2009 10:50 (30 minutes)

Presenter: Prof. STACHEL, Johanna (Heidelberg University)

Session Classification: Session 6

Contribution ID: 17

Type: **not specified**

(Some) Bulk Properties at RHIC

Tuesday, 1 September 2009 11:20 (30 minutes)

Presenter: Prof. SCHWEDA, Kai (Heidelberg University)

Session Classification: Session 6

Contribution ID: 18

Type: **not specified**

Exploring dense matter at FAIR: The CBM experiment

Tuesday, 1 September 2009 17:00 (30 minutes)

Presenter: FRIESE, Volker (GSI, Darmstadt)

Session Classification: Session 7

Contribution ID: 19

Type: **not specified**

Quark and gluon properties in dense 2-colour QCD

Tuesday, 1 September 2009 17:30 (25 minutes)

Presenter: Prof. SKULLERUD, Jon Ivar (NUI Maynooth)

Session Classification: Session 7

Contribution ID: 20

Type: **not specified**

The finite-temperature phase structure of lattice QCD with twisted-mass Wilson fermions

Tuesday, 1 September 2009 17:55 (25 minutes)

Presenter: ILGENFRITZ, Ernst-M.

Session Classification: Session 8

Contribution ID: 21

Type: **not specified**

Viscosities in the hadron gas

Tuesday, 1 September 2009 18:20 (25 minutes)

Presenter: FERNANDEZ-FRAILE, Daniel (Frankfurt University)

Session Classification: Session 8

Contribution ID: 22

Type: **not specified**

G_2 Gauge Theories – Effective Polyakov Loop Models, Casimir Scaling and the Gauge-Higgs Phase Diagram

Tuesday, 1 September 2009 18:45 (25 minutes)

Presenter: WOZAR, Christian (University of Jena)

Session Classification: Session 8

Contribution ID: 23

Type: **not specified**

QCD Plasma Instabilities and Nonthermal Fixed Points

Wednesday, 2 September 2009 09:00 (40 minutes)

Presenter: Dr BERGES, Jürgen (TU Darmstadt)

Session Classification: Session 9

Contribution ID: 24

Type: **not specified**

Covariant transport approach for strongly interacting partonic systems

Wednesday, 2 September 2009 09:40 (40 minutes)

Presenter: CASSING, Wolfgang (University of Giessen)

Session Classification: Session 9

Contribution ID: 25

Type: **not specified**

The phase diagram of two flavour QCD

Wednesday, 2 September 2009 10:50 (25 minutes)

Presenter: Prof. PAWLOWSKI, Jan (University of Heidelberg)

Session Classification: Session 10

Contribution ID: 26

Type: **not specified**

Complex Actions and Stochastic Quantisation

Wednesday, 2 September 2009 11:15 (25 minutes)

Presenter: SIXTY, Denes (TU Darmstadt)

Session Classification: Session 10

Contribution ID: 27

Type: **not specified**

The SU(2) deconfinement transition in 2+1 dimensions: critical couplings from twisted boundary conditions and universality

Wednesday, 2 September 2009 11:40 (25 minutes)

Presenter: Prof. VON SMEKAL, Lorenz (TU Darmstadt)

Session Classification: Session 10

Contribution ID: 28

Type: **not specified**

Scaling Analysis of the two-flavor phase transition

Wednesday, 2 September 2009 12:05 (25 minutes)

Presenter: KLEIN, Bertram (TU München)

Session Classification: Session 10

Contribution ID: 29

Type: **not specified**

Chiral and deconfinement transitions from Dyson-Schwinger equations

Wednesday, 2 September 2009 12:30 (25 minutes)

Presenter: Prof. FISCHER, Christian (TU Darmstadt)

Session Classification: Session 10

Contribution ID: 30

Type: **not specified**

Quarkyonic Matter, a Triple Point, and Chiral Spirals in QCD

Wednesday, 2 September 2009 15:00 (40 minutes)

Presenter: PISARSKI, Robert (BNL)

Session Classification: Session 11

Contribution ID: 31

Type: **not specified**

From Quarks and Gluons to Hadrons: Functional Renormalization Group Studies of QCD at Finite Temperature and Chemical Potential

Wednesday, 2 September 2009 15:40 (40 minutes)

Presenter: BRAUN, Jens (University of Jena)

Session Classification: Session 11

Contribution ID: 32

Type: **not specified**

Coulomb gauge and Schwinger-Dyson equations

Wednesday, 2 September 2009 16:20 (25 minutes)

Presenter: WATSON, Peter (University of Tübingen)

Session Classification: Session 11

Contribution ID: 33

Type: **not specified**

Exact renormalization group at finite temperature

Wednesday, 2 September 2009 17:15 (40 minutes)

Presenter: Prof. BLAIZOT, Jean-Paul (IPHT-Saclay)

Session Classification: Session 12

Contribution ID: 34

Type: **not specified**

Chiral Symmetry and meson gases: Recent developments

Wednesday, 2 September 2009 17:55 (25 minutes)

Presenter: GOMEZ NICOLA, Angel (University of Madrid)

Session Classification: Session 12

Contribution ID: 35

Type: **not specified**

On the chiral phase transition at finite chemical potential and vanishing temperature

Wednesday, 2 September 2009 18:20 (25 minutes)

Presenter: HAAS, Lisa (University of Heidelberg)

Session Classification: Session 12

Contribution ID: 36

Type: **not specified**

Gluon bremsstrahlung in QCD plasmas at very high energy

Thursday, 3 September 2009 09:00 (40 minutes)

Presenter: ARNOLD, Peter (University of Virginia)

Session Classification: Session 13

Contribution ID: 37

Type: **not specified**

Looking for the QCD critical point on the lattice

Thursday, 3 September 2009 09:40 (40 minutes)

Presenter: DE FORCRAND, Phillipe (ETH Zurich)

Session Classification: Session 13

Contribution ID: 38

Type: **not specified**

Thermodynamics and the phase diagram of QCD from imaginary chemical potentials

Thursday, 3 September 2009 10:50 (25 minutes)

Presenter: D'ELIA, Massimo (University of Genoa & INFN)

Session Classification: Session 14

Contribution ID: 39

Type: **not specified**

The QCD equation of state

Thursday, 3 September 2009 11:15 (25 minutes)

Presenter: BORSANYI, Szablocs (University of Wuppertal)

Session Classification: Session 14

Contribution ID: 40

Type: **not specified**

Large chemical potentials at low temperatures in dense fermionic systems

Thursday, 3 September 2009 11:40 (25 minutes)

Presenter: LANGFELD, Kurt (University of Plymouth)

Session Classification: Session 14

Contribution ID: 41

Type: **not specified**

Chiral crystalline phases in NJL-type models

Thursday, 3 September 2009 12:05 (25 minutes)

Presenter: NICKEL, Dominik (MIT)

Session Classification: Session 14

Contribution ID: 42

Type: **not specified**

Critical scaling at the chiral phase transition

Thursday, 3 September 2009 12:30 (25 minutes)

Presenter: MÜLLER, Jens (TU Darmstadt)

Session Classification: Session 14

Contribution ID: 43

Type: **not specified**

QCD thermodynamics at weak coupling

Thursday, 3 September 2009 14:15 (40 minutes)

Presenter: SCHRÖDER, York (University of Bielefeld)

Session Classification: Session 15

Contribution ID: 44

Type: **not specified**

Astrophysical and cosmological explorations of the QCD phase diagram

Thursday, 3 September 2009 14:55 (40 minutes)

Presenter: SCHAFFNER-BIELICH, Jürgen (University of Heidelberg)

Session Classification: Session 15

Contribution ID: 45

Type: **not specified**

Complete second-order dissipative relativistic fluid dynamics

Thursday, 3 September 2009 15:35 (40 minutes)

Presenter: Prof. RISCHKE, Dirk (University of Frankfurt)

Session Classification: Session 15