

**EMMI Workshop at the
University of Wrocław -
Aspects of Criticality II**

Report of Contributions

Contribution ID : 5

Type : **not specified**

Heavy flavor spectra from the hydrodynamically expanding QGP

Tuesday, 2 July 2024 09:15 (30)

Presenter(s) : STACHEL, Johanna

Session Classification : Session

Contribution ID : 6

Type : **not specified**

Search for the QCD Criticality in RHIC Beam Energy Scan Program

Tuesday, 2 July 2024 09:45 (30)

Presenter(s) : XU, Nu (LBNL)

Session Classification : Session

Contribution ID : 7

Type : **not specified**

QCD phase diagram and Lee-Yang edge singularities

Tuesday, 2 July 2024 10:15 (30)

Presenter(s) : SCHMIDT, Christian (Bielefeld University)

Session Classification : Session

Contribution ID : 8

Type : **not specified**

Ideas of Confinement from Coulomb Gauge QCD

Tuesday, 2 July 2024 11:15 (30)

Presenter(s) : LO, Pok Man (University of Wroclaw)

Session Classification : Session

Contribution ID : 9

Type : **not specified**

Stiffening of matter in quark-hadron continuity

Tuesday, 2 July 2024 11:45 (30)

Presenter(s) : KOJO, Toru

Session Classification : Session

Contribution ID : **10**

Type : **not specified**

Quarkyonic or baryquark matter?

Tuesday, 2 July 2024 12:15 (30)

Presenter(s) : KOCH, Volker

Session Classification : Session

Contribution ID : 11

Type : **not specified**

Electromagnetic probes for critical fluctuations of phase transitions in dense QCD

Tuesday, 2 July 2024 15:30 (30)

Presenter(s) : KITAZAWA, Masakiyo

Session Classification : Session

Contribution ID : 12

Type : **not specified**

Thermal dileptons as a probe of QCD phase structure at high baryon density

Tuesday, 2 July 2024 15:00 (30)

Presenter(s) : GALATYUK, Tetyana

Session Classification : Session

Contribution ID : 13

Type : **not specified**

Microscopic Encoding of Macroscopic Universality: Scaling Properties of Dirac Eigenspectra near QCD Chiral Phase Transition

Tuesday, 2 July 2024 14:30 (30)

Presenter(s) : PETRECKZY, Peter (BNL)

Session Classification : Session

Contribution ID : 14

Type : **not specified**

The earliest phase of relativistic heavy-ion collisions

Tuesday, 2 July 2024 14:00 (30)

Presenter(s) : MRÓWCZYŃSKI, Stanisław

Session Classification : Session

Contribution ID : 15

Type : **not specified**

Pseudo-scalar meson spectral properties in the chiral crossover

Tuesday, 2 July 2024 16:30 (30)

Presenter(s) : PHILIPSEN, Owe

Session Classification : Session

Contribution ID : 16

Type : **not specified**

Non-perturbative constraints on perturbation theory at finite temperature

Tuesday, 2 July 2024 17:00 (30)

Presenter(s) : LOWDON, Peter

Session Classification : Session

Contribution ID : 17

Type : **not specified**

Bottomonium spectral functions in thermal QCD

Tuesday, 2 July 2024 17:30 (30)

Presenter(s) : LOMBARDO, Maria-Paola

Session Classification : Session

Contribution ID : **18**

Type : **not specified**

Charm degrees of freedom in hot matter from Lattice QCD

Tuesday, 2 July 2024 18:00 (30)

Presenter(s) : SHARMA, Sipaz

Session Classification : Session

Contribution ID : **19**

Type : **not specified**

Quark Matter at High Baryon Density, Conformality and Quarkyonic Matter

Wednesday, 3 July 2024 09:15 (30)

Presenter(s) : MCLERRAN, Larry (INT, University of Washington)

Session Classification : Session

Contribution ID : **20**

Type : **not specified**

Curvature of the energy per particle in neutron stars

Wednesday, 3 July 2024 09:45 (30)

Presenter(s) : MARCZENKO, Michał (University of Wrocław)

Session Classification : Session

Contribution ID : 21

Type : **not specified**

QCD Phase Diagram and Astrophysical Implications

Wednesday, 3 July 2024 10:15 (30)

Presenter(s) : FUKUSHIMA, Kenji

Session Classification : Session

Contribution ID : 22

Type : **not specified**

Light Nuclei and Exotic States production in HIC

Wednesday, 3 July 2024 11:15 (30)

Presenter(s) : BRAUN-MUNZINGER, Peter (EMMI/GSI)

Session Classification : Session

Contribution ID : 23

Type : **not specified**

Light-nuclei production in pp and pA collisions in the baryon canonical ensemble

Wednesday, 3 July 2024 11:45 (30)

Presenter(s) : SHARMA, Natasha

Session Classification : Session

Contribution ID : 24

Type : **not specified**

Unified approach to spin hydrodynamics

Wednesday, 3 July 2024 12:15 (30)

Presenter(s) : FLORKOWSKI, Wojciech

Session Classification : Session

Contribution ID : 26

Type : **not specified**

Non-zero temperature study of spin 1/2 charmed baryons using lattice gauge theory

Wednesday, 3 July 2024 14:45 (30)

Presenter(s) : ALLTON, Chris

Session Classification : Session

Contribution ID : 27

Type : **not specified**

Heavy Flavor Kinetics in HIC

Wednesday, 3 July 2024 15:15 (30)

Presenter(s) : MYKHAYLOVA, Valeriya (University of Wroclaw)

Session Classification : Session

Contribution ID : 28

Type : **not specified**

Hydrodynamization of charm quarks in heavy-ion collisions

Wednesday, 3 July 2024 16:15 (30)

Presenter(s) : FLOERCHINGER, Stefan

Session Classification : Session

Contribution ID : 29

Type : **not specified**

Thermal quarkonia spectral function in 2+1 flavor Lattice QCD

Wednesday, 3 July 2024 16:45 (30)

Presenter(s) : BALA, Dibyendu

Session Classification : Session

Contribution ID : 30

Type : **not specified**

Heavy quark momentum broadening in a non-Abelian plasma away from equilibrium

Wednesday, 3 July 2024 17:15 (30)

Presenter(s) : SHARMA, Sayantan

Session Classification : Session

Contribution ID : 31

Type : **not specified**

Charm balance function in relativistic HIC

Wednesday, 3 July 2024 17:45 (30)

Presenter(s) : BOŹEK, Piotr

Session Classification : Session

Contribution ID : 32

Type : **not specified**

The imprint of conservation laws on correlated particle

Thursday, 4 July 2024 09:15 (30)

Presenter(s) : RUSTAMOV, Anar

Session Classification : Session

Contribution ID : 33

Type : **not specified**

Correlations and fluctuations in a thermal system with exact conservation of non-abelian charges

Thursday, 4 July 2024 17:45 (30)

Presenter(s) : TURKO, Ludwik

Session Classification : Session

Contribution ID : 34

Type : **not specified**

Finite size effects on the critical endpoint and conserved charge fluctuations

Thursday, 4 July 2024 10:15 (30)

Presenter(s) : KOVÁCS, Győző

Session Classification : Session

Contribution ID : 35

Type : **not specified**

Confronting analytic continuation from imaginary to real chemical potential in Lattice QCD

Thursday, 4 July 2024 11:15 (30)

Presenter(s) : DI RENZO, Francesco (University of Parma and INFN)

Session Classification : Session

Contribution ID : 36

Type : **not specified**

Lee-Yang edge singularities from analytic continuation of scaling functions

Thursday, 4 July 2024 11:45 (30)

Presenter(s) : SINGH, Simran

Session Classification : Session

Contribution ID : 37

Type : **not specified**

Influence of dynamical screening of four-quarks interaction on the chiral phase diagram

Thursday, 4 July 2024 12:15 (30)

Presenter(s) : SZYMAŃSKI, Michał (University of Wrocław)

Session Classification : Session

Contribution ID : **38**

Type : **not specified**

Parity doubling in dense matter

Wednesday, 3 July 2024 14:15 (30)

Presenter(s) : SASAKI, Chihiro (University of Wroclaw)

Session Classification : Session

Contribution ID : 40

Type : **not specified**

Exploring properties of extreme matter with Machine Learning

Thursday, 4 July 2024 15:15 (30)

Presenter(s) : WANG, Lingxiao

Session Classification : Session

Contribution ID : 41

Type : **not specified**

Thermal twin stars

Thursday, 4 July 2024 14:45 (30)

Presenter(s) : BLASCHKE, David (University of Wroclaw & JINR Dubna)

Session Classification : Session

Contribution ID : 42

Type : **not specified**

Simulating collectivity in dense baryon matter with multiple fluids

Thursday, 4 July 2024 17:15 (30)

Presenter(s) : HUOVINEN, Pasi

Session Classification : Session

Contribution ID : 43

Type : **not specified**

Thermodynamics of QCD with quarks and multi-quark clusters

Thursday, 4 July 2024 16:45 (30)

Presenter(s) : IVANYTSKYI, Oleksii (University of Wroclaw)

Session Classification : Session

Contribution ID : 45

Type : **not specified**

prof. Robert Olkiewicz - Rector of the University of Wrocław

Tuesday, 2 July 2024 09:05 (5)

Session Classification : Conference Opening

Contribution ID : 46

Type : **not specified**

prof. Peter Braun-Munzinger - Scientific Director of EMMI/GSI

Tuesday, 2 July 2024 09:00 (5)

Session Classification : Conference Opening

Contribution ID : 47

Type : **not specified**

Prof. Michał Tomczak - Dean of the Faculty of Physics and Astronomy

Tuesday, 2 July 2024 09:10 (5)

Session Classification : Conference Opening

Contribution ID : 50

Type : **not specified**

Proton cumulants from hydrodynamics in light of new STAR data

Thursday, 4 July 2024 09:45 (30)

Presenter(s) : VOVCHENKO, Volodymyr

Session Classification : Session

Contribution ID : 51

Type : **not specified**

Four types of phase transitions in interacting meson (boson) matter at high temperatures

Thursday, 4 July 2024 15:45 (30)

Presenter(s) : ANCHISHKIN, Dmitry

Session Classification : Session