

The 13th Workshop on QCD Phase Transition and Relativistic Heavy-Ion Physics (QPT 2019)

QPT 2019

Enshi, China

Friday 16 August 2019 – Tuesday 20 August 2019

Hualongcheng Hotel

Conference Scientific Programme

Please download Agenda.pdf for the detail of Scientific Programme.

August 16 On-site Registration Time Location 8:00-20:00 The lobby of the Building B at Hualongcheng Hotel August 17 On-site Registration Time Location 7:30-18:00 The lobby of the third floor at Conference Center

August 17, Plenary Sessions, Morning, Day 1 Plenary Session I Chair:

(Location: The Multi-function hall on the third floor at Conference Center) Time Title Presenter 8:15-8:30 Welcome Address One of Leaders of HBMY 8:30-9:05 Study QCD phase diagram in high-energy nuclear collisions XU Nu 9:05-9:40 New physics at high baryon density ZHUANG Pengfei 9:40-10:10 Photo and Tea Break Plenary Session II Chair:

(Location: The Multi-function hall on the third floor at Conference Center) Time Title Presenter 10:10-10:35 Signatures of Chiral Magnetic Effect in Heavy Ion Collisions LIAO Jinfeng 10:35-11:00 On chiral kinetic theory HUANG Xuguang 11:00-11:25 Chiral kinetic theory with Landau level basis LIN Shu 11:25-11:50 Chiral and spin kinetic theory from Wigner function approach GAO Jianhua 11:50-12:15 Search for the CME and CMW at the LHC with ALICE SHOU Qiye 12:15 Lunch (Location: The cafeteria on the first floor at Conference Center) August 17, Plenary Sessions, Afternoon, Day 1 Plenary Session III Chair:

(Location: The Multi-function hall on the third floor at Conference Center) Time Title Presenter 14:00-14:25 RHIC-STAR实验的时间投影室及前向探测器升级 XU Qinghua 14:25-14:50 Recent results from ATLAS experiment JIA Jiangyong 14:50-15:15 ALICE highlights and future plan in China MAO Yaxian 15:15-15:40 Nuclear effects in proton-nucleus and electron-ion collisions XING Hongxi 15:40-16:05 Quark-gluon discrimination in pp collisions at the LHC & prospects for heavy ion analyses Okawa Hideki 16:05-16:25 Tea Break Plenary Session IV Chair:

(Location: The Multi-function hall on the third floor at Conference Center) Time Title Presenter 16:25-16:50 Transport model study of collectivity in small systems MA Guoliang 16:50-17:15 The characterization of pre-equilibrium dynamics in heavy-ion collisions with generalized "adiabatic approximation" YIN Yi 17:15-17:40 Longitudinal hydrodynamical response and pseudo-rapidity dependent harmonic flow in relativistic heavy-ion collisions YAN Li 17:40-18:05 Machine learning for high energy heavy ion collisions PANG Longgang 18:05-18:30 Nuclear liquid-gas phase transition with machine learning WANG Rui 18:30 Banquet (Location: The A-Hall on the second floor at Conference Center)

August 18, Plenary Sessions, Morning, Day 2 Plenary Session I Chair:

(Location: The Multi-function hall on the third floor at Conference Center) Time Title Presenter 8:15-8:40 Dense Matter and Neutron Star from Dynamical holographic QCD model HUANG Mei 8:40-9:05 Baryon as a Quantum Hall Droplet and the Cheshire Cat Principle MA Yongliang 9:05-9:30 QCD Phase structure from Lattice QCD DING Hengtong 9:30-9:55 QCD at finite temperature and density within the FRG approach FU Weijie 9:55-10:20 Determining the chiral crossover by the Mott transition of Goldstone bosons MAO Shijun 10:20-10:40 Tea Break Plenary Session II Chair:

(Location: The Multi-function hall on the third floor at Conference Center) Time Title Presenter 10:40-11:05 Elliptic Flow of Heavy Quarkonia in small systems XIAO Bowen 11:05-11:30 Collectivity in small collision systems CHEN Zhenyu 11:30-11:55 The recent flow measurements from RHIC-STAR SHI Shusu 11:55-12:20 Recent results on light flavor and dileptons measurements at STAR YANG Chi 12:20 Lunch (Location: The cafeteria on the first floor at Conference Center) Afternoon Parallel sessions 14:00-18:00 Parallel session I Parallel session II Parallel session III Location The Multi-function hall-02 on the third floor at Conference Center The Lecture hall-01 on the fourth floor at Conference Center The VIP hall-02 on the fourth floor at Conference Center 18:00 Dinner (Location: The cafeteria on the first floor at Conference Center) August 19, Plenary Sessions, Morning, Day 3 Plenary Session I Chair:

(Location: The Multi-function hall on the third floor at Conference Center) Time Title Presenter 8:15-8:40 Explore the QCD Phase Structure with Relativistic Heavy-ion

Collisions at RHIC LUO Xiaofeng 8:40-9:05 Light flavor production in STAR BES and QCD phase transition ZHU Xianglei 9:05-9:30 Recent open heavy flavor production at RHIC ZHANG Yifei 9:30-9:55 Charm-hadron production in pp and AA collisions HE Min 9:55-10:20 Tale of coherent photon products: from UPC to HHIC ZHA Wangmei 9:20-10:40 Tea Break Plenary

Session II Chair:

(Location: The Multi-function hall on the third floor at Conference Center) Time Title Presenter 10:40-11:05 Diffusion of heavy quarks in the early stages of high energy nuclear collisions Ruggieri 11:05-11:30 Medium modification of heavy flavor jets in HIC DAI Wei 11:30-11:55 Recent quarkonium measurements from RHIC-STAR TANG Zebo 11:55-12:20 Quantitative analysis of charmonium eigenstates in the expanding QGP CHEN Baoyi 12:20 Lunch (Location: The cafeteria on the first floor at Conference Center) Afternoon Parallel sessions 14:00-18:00 Parallel session I Parallel session II Parallel session III Location The Multi-function hall-02 on the third floor at Conference Center The Lecture hall-01 on the fourth floor at Conference Center The VIP hall-02 on the fourth floor at Conference Center 18:00 Dinner (Location: The cafeteria on the first floor at Conference Center) August 20, Plenary Sessions, Morning, Day 4 Plenary

Session I Chair:

(Location: The Multi-function hall on the third floor at Conference Center) Time Title Presenter 8:15-8:40 Chiral and pion condensation in rotating strongly interacting matter HE Lianyi 8:40-9:05 Magnetic catalysis effect kills neutral pion superfluidity and vacuum superconductivity in strong magnetic field CAO Gaoqing 9:05-9:30 Chiral phase transition from holographic QCD LI Danning 9:30-9:55 Anomalous Magnetohydrodynamics with finite conductivity and chiral magnetic effect PU Shi 9:55-10:20 Tea Break Plenary Session II Chair:

(Location: The Multi-function hall on the third floor at Conference Center) Time Title Presenter 10:20-10:45 Alpha-clustering effect in relativistic heavy-ion collisions by AMPT model ZHANG Song 10:45-11:10 Multiphase transport model predictions of isobaric collisions with nuclear structure from density functional theory LI Hanlin 11:10-11:35 Electric conductivity in a viscous quark-gluon plasma JIANG Bingfeng 11:35-11:45 Awards for excellent academic reports for Postgraduate students 11:45-12:00 Introduction to host Institute for QPT 2021 12:00 Lunch (Location: The cafeteria on the first floor at Conference Center)