

*Phases of QCD and
Beam Energy Scan Program
With Heavy Ion Collisions*



Workshop Agenda Day 1 (Aug 15th Tue.)

Session I: 9:00—10:50 Chair: Xu-Guang Huang

- 9:00—9:40 Volker Koch (LBNL)
“Beam Energy Scan: theoretical overview”
- 9:40—10:20 Nu Xu (CCNU/LBNL)
“Beam Energy Scan: experimental overview”
- 10:20—10:50 Flemming Videbaek (BNL)
“STAR upgrades for the BES-II”

Session II: 11:20—12:35 Chair: Huan Zhong Huang

- 11:20—11:45 Xianglei Zhu (Tsinghua Univ)
“Strangeness production in STAR beam energy scan”
- 11:45—12:10 Shusu Shi (CCNU)
“Measurements of elliptic flow in STAR Beam Energy Scan Program”
- 12:10—12:35 Jun Xu (SINAP)
“Mean-field potential effects at RHIC BES”

Session III: 14:00—15:20 Chair: Pengfei Zhuang

- 14:00—14:40 Yu-Gang Ma (SINAP)
“Alpha-clustering effect on the collective motion and correlation from the low to relativistic energy”
- 14:40—15:20 Ulrich Heinz (OSU)
“Overview of bulk evolution at BES energies”

Session IV: 15:50—18:00 Chair: Xiaoming Xu

- 15:50—16:20 Tetsufumi Hirano (Sofia Univ)
“Dynamical initialization of QGP fluids”
- 16:20—16:50 Huichao Song (Peking Univ)
“Critical and non-critical fluctuations in RHIC BES”
- 16:50—17:20 Zhe Xu (Tsinghua Univ)
“Constraint on viscosity of QCD matter during 1st-order phase transition”

17:20—18:00 Discussions

Aug 15-18, 2017 @ Fudan University, Shanghai, China

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Workshop Agenda Day 2 (Aug 16th Wed.)

Session V: 9:00—11:00 Chair: Defu Hou

- 9:00—9:30 Jan Pawlowski (Univ Heidelberg)
“Exploring the phase structure and dynamics of QCD”
- 9:30—10:00 Adam Bzdak (AGH)
“Multi-proton correlation functions and the QCD phase diagram”
- 10:00—10:30 Mei Huang (IHEP)
“Location of the QCD critical end point”
- 10:30—11:00 Heng-Tong Ding (CCNU)
“QCD phase diagram and critical end point from lattice”

Conference Photo: 11:00 at Guanghua East Building

Session VI: 11:30—12:30 Chair: Yuxin Liu

- 11:30—12:00 Kenji Fukushima (Univ Tokyo)
“Percolation picture from nuclear to quark matter”
- 12:00—12:30 Zhongzhou Ren (Nanjing Univ)
“Nucleon clustering in neutron-rich nuclei”

Session VII: 14:00—15:20 Chair: Nu Xu

- 14:00—14:40 Berndt Mueller (BNL)
“Heavy ion collisions at RHIC: Beam Energy Scan, Isobars, and beyond”
- 14:40—15:20 Mikail Stephanov (UIC)
“Searching for QCD critical point: theoretical overview”

Session VIII: 15:50—18:00 Chair: Mei Huang

- 15:50—16:20 Xiaofeng Luo (CCNU)
“Search for the QCD critical point with fluctuations of conserved quantities in relativistic heavy-ion collisions at RHIC”
- 16:20—16:50 ShinIchi Esumi (Tsukuba Univ)
“Unfolding of net-distribution to look for a critical fluctuation”
- 16:50—17:20 Yuxin Liu (Peking Univ)
“TBA”

17:20—18:00 Discussions

18:30—20:00 Banquet at Yanyuan Hotel

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Workshop Agenda Day 3 (Aug 17th Thu.)

Session IX: 9:00—11:00 Chair: Che-Ming Ko

- 9:00—9:35 Huan Zhong Huang (Fudan/UCLA)
“Overview of the search for anomalous transport in heavy ion collisions”
- 9:35—10:10 Pengfei Zhuang (Tsinghua Univ)
“Equal-time transport in electromagnetic and strong interacting matter”
- 10:10—10:40 Roy Lacey (Stony Brook)
*“Charge separation measurements in $p(d)+A$ and $A(B)+A$ collisions;
Implications for characterization of the chiral magnetic effect”*
- 10:40—11:10 Defu Hou (CCNU)
“Some theoretical issues about anomalous transports”

Session X: 11:40—12:40 Chair: Guangxiong Peng

- 11:40—12:10 Yi Yin (MIT)
“Uncovering the mystery of hot QCD matter from non-equilibrium dynamics”
- 12:10—12:40 Naoki Yamamoto (Keio Univ)
“Chiral soliton lattice in strong magnetic fields”

Session XI: 14:00—16:00 Chair: Zebo Tang

- 14:00—14:30 Zuotang Liang (Shandong Univ)
“Globally polarized quark gluon plasma in non-central AA collisions”
- 14:30—15:00 Liewen Chen (SJTU)
“The symmetry energy in nucleon and quark matter”
- 15:00—15:30 Zhigang Xiao (Tsinghua Univ)
“Physical programs and status of the CSR external-Target Experiment (CEE)”
- 15:30—16:00 Guangxiong Peng (UCAS/IHEP)
“Quark models, phase diagram, and structure of compact stars”

Session XII: 16:30—17:45 Chair: Qinghua Xu

- 16:30—16:55 Guoyun Shao (XJTU)
“Fluctuations and QCD phase structure”
- 16:55—17:20 Yifei Zhang (USTC)
“Open heavy flavor measurements in heavy-ion collisions”

17:20—18:00 Discussions

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Workshop Agenda Day 4 (Aug 18th Fri.)

Session XIII: 9:00—11:00 Chair: Zuotang Liang

9:00—9:30 Che-Ming Ko (TAMU)

“Transport model study of chiral magnetic and vortical effects in heavy ion collisions”

9:30—10:00 Yoshimasa Hidaka (RIKEN)

“Chiral kinetic equation with a collision term and anomalous transport from quantum field theory”

10:00—10:30 Shi Pu (Tokyo Univ)

“Boost invariant formulation of the chiral kinetic theory”

10:30—11:00 Guo-Liang Ma (SINAP)

“Investigating the CME and background with AMPT model”

Session XIV: 11:30—12:30 Chair: Fu-Hu Liu

11:30—11:50 Koichi Hattori (Fudan Univ)

“Transport phenomena in strong magnetic fields”

11:50—12:10 Bo Feng (HUST)

“Chiral Magnetic Effect in lattice perturbation scheme”

12:10—12:30 Baoyi Chen (Tianjin Univ)

“Charmonium production from strong electromagnetic field and QGP in AA collisions”

Session XV: 14:00—16:30 Chair: Jinfeng Liao

14:00—14:40 Swagato Mukherjee (BNL)

“Beam Energy Scan Theory: status & outlook”

14:40—15:10 Shu Lin (SYS Univ)

“Axial charge dynamics from massive quarks”

15:10—15:35 Qiye Shou (SINAP)

“Experimental overview of Chiral Magnetic Wave in heavy-ion collisions”

15:35—16:00 Gaoqing Cao (Fudan Univ)

“Quarksonic matter at high isospin density”

16:00—16:30 *“Discussions & concluding remarks”*

16:30 End of Workshop

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Miscellanies

1. **Registration:** Room 104 of East Side-Building of Guanghua (光华东辅楼 104 会议室),, 2:00PM-6:00PM, August 14th and 8:00AM-9:00AM, August 15th .
2. **Workshop room** is Room 103 of East Side-Building of Guanghua (光华东辅楼 103 会议室).
3. **Lunch** at 3rd floor of Danyuan Canteen, 12:45PM-2:00PM, August 15th -18th .
Dinner at 3rd floor of Danyuan Canteen, 6:30PM, August 15th ,17th -18th .
4. **Coffee bars** on the 15th floor of Guanghua Building and on the ground floor of Danyuan Canteen.
5. **Wireless internet connection:** fdwireless, username: qcdandbes17, password: qcdandbes17
6. **Please remember to carry your ID (ID card or passport) with you**, the entrance guard may check it at the gate of the campus.
7. **A campus map:**



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