"QCD vacuum and matter under strong magnetic field"

Oct. 15-17, 2014, Seminar room 319, Theory Division, IHEP/CAS

Wednesday, Oct. 15th, 2014

| | Morning session | Chair: Pengfei Zhuar | ng |
|-------------|--|----------------------|------------------|
| 8:30-9:00 | Registration | | |
| 9:00-10:30 | Lattice QCD with a magnetic ba and its relevance for heavy is | 0 | Andreas Schaefer |
| 10:30-10:40 | Group photo in front of the gate of | of Theory Division | |
| 10:40-11:00 | Coffee break | | |
| 11:00-12:30 | Search for chiral effects at STA | R | Gang Wang |

12:30 Lunch at the Restaurant of Guest House, IHEP/CAS

| | Afternoon session | Chair: Hongshi Zo | ong |
|-------------|---|--------------------------|----------------|
| 14:30-15:15 | Electromagnetic field and ano heavy-ion collisions and | - | Xu-Guang Huang |
| 15:15-16:00 | Vorticity and magnetic field pr ideal fluids | oduction in relativistic | Jian-Hua Gao |
| 16:00-16:30 | Coffee break | | |
| 16:30-17:10 | Charged rho mesons in Dyson S | chwinger approach | Kun-Lun Wang |
| 17:10-17:40 | Towards complete phase diagram P-wave superconductor n | | Run-Qiu Yang |
| 17:40-18:00 | Is there charged rho condensat | tion? | Hao Liu |
| | | | |

18:30 Reception at the Restaurant of Guest House, IHEP/CAS

Thursday, Oct.16th, 2014

Morning SessionChair: Jinfeng Liao9:00-10:30Chiral asymmetry: A remarkable form of
magnetization in relativistic matterIgor Shovkovy
magnetization in relativistic matter10:30-11:00Coffee breakGokce Basar
dilepton production in magnetic field

12:30 Lunch at the Restaurant of Guest House, IHEP/CAS

Afternoon Session Chair: Defu Hou

| 14:30-15:15 | Effective potential of QCD with strong magnetic fields at zero and finite temperatures | Sho Ozaki |
|----------------|---|----------------|
| 15:15-16:00 | Quarkonia in Strong magnetic field | Shuzhe Shi |
| 16:00-16:30 Ca | offee break | |
| 16:30-17:15 | BCS/BE crossover in a magnetic field-the BE limit | Bo Feng |
| 17:15-18:00 | Induced local chiral imbalance in chiral symmetric phase and inverse magnetic catalysis | Lang Yu |

18:30 Banquet at Quanjude Peking roasted duck restaurant

Friday, Oct.17th, 2014

Morning Session Chair: Xu-Guang Huang

- 9:00-10:30 Magnetic Catalysis vs Chiral Gap Effect Kenji Fukushima
- *10:30-11:00 Coffee break*
- 11:00-12:30 Chiral effects and anomalous transport in the extreme matter Jinfeng Liao

12:30 Lunch at the Restaurant of Guest House, IHEP/CAS

Afternoon Session Chair: Mei Huang

| 14:30-15:15 | Final state effects on chiral magnetic effect and chiral magnetic wave | Guo-Liang Ma |
|-------------|--|-----------------------|
| 15:15-16:00 | Chiral kinetic theory and Berry phase | Shi Pu |
| 16:00-16:30 | Coffee break | |
| 16:30-17:15 | Polarization energy loss in hot viscous quark-gluon plasma | Bingfeng Jiang |
| 17:15-17:45 | Magnetar in SU(3) NJL model with vector interaction and magnetized gluon potential | Pengcheng Chu |
| 17:45-18:00 | Summary and free discussion | |

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