

# Workshop on STAR Forward Tracking Detector Upgrade and Related Physics

## Program

Monday, May 6, 2019 Arrival at Crown Plaza Hotel

**Tuesday, May 7, 2019**

N7 Building - 122

8:30 Registration

Chair: Yugang Ma

- 8:40 Zhangbu Xu (SDU/BNL) Introduction to STAR program in 2021+
- 9:00 Lijuan Ruan (BNL) Overview for STAR forward upgrade(sTGC and calorimeter)
- 9:30 Zhenyu Ye (UIC) Silicon Tracker for STAR Forward Upgrade
- 10:00 Isaac Upsal (SDU) Lambda reconstruction and physics in the STAR forward upgrade

10:30–11:00 **Group Photo & Coffee Break**

Chair: Xiaolian Wang

- 11:00 Zhenyu Chen (SBU) sTGC simulation
- 11:30 Daniel Brandenburg (SDU) Software for the STAR Forward upgrade : Tracking and Performance

12:00–13:30 **Lunch Break**

Chair: Li Yi

- 13:30 Huichao Song (PKU) Dynamical Model and Soft Physics
- 14:00 Jiangyong Jia (SBU) Future opportunities for a small-system scan in STAR
- 14:30 Guoliang Ma (FDU) Medium modification of reconstructed jets from AMPT model

15:00–15:30 **Coffee Break**

Chair: Feng Liu

- 15:30 Xianglei Zhu (Tsinghua) Recent results on heavy-ion physics from LHCb
- 16:00 Prithwish Tribedy (BNL) Unique physics opportunities with the STAR forward upgrade: A heavy ion perspective

- 16:30 Nihar Sahoo (SDU)      Gamma+jet and pi<sup>0</sup>+jet measurement at mid-rapidity and physics for forward upgrade
- 17:00 Wangmei Zha (USTC)      The UPC related physics with STAR forward upgrades
- 18:00 *Leave for Banquet at Jidong Restaurant*

## **Wednesday, May 8, 2019**

N7 Building - 122

Chair: Liang Zuotang

- 9:00 Boqiang Ma (PKU)      The sea quark spins of the nucleon from polarized pp collisions
- 9:30 Guangyou Qin (CCNU)      Jet-medium interaction in heavy-ion collisions
- 10:00 Jinhui Chen (FDU)      Hypernucleus physics in STAR forward experiment
- 10:30–11:00 *Coffee Break*

Chair: Chi Yang

- 11:00 Shusu Shi (CCNU)      Collectivity and Beam Energy Scan program
- 11:30 Xiaofeng Luo (CCNU)      QCD Critical Point Search in the RHIC Beam Energy Scan
- 12:00–13:30 *Lunch Break*

Chair: Qinghua Xu

- 13:30 Zebo Tang (USTC)      Recent STAR Heavy Flavor Results and Opportunities with STAR Forward Upgrade
- 14:00 Shi Pu (USTC)      Chiral kinetic theory and anomalous magnet hydrodynamics
- 14:30 Xiangming Sun (CCNU)      Physics Through CMOS Sensor Instrumentation Development

15:00–15:30 *Coffee Break*

Chair: Zhangbu Xu

- 15:30-17:30 *Discussion & Summary*
- 18:00 *Dinner at Crown Plaza Hotel*