



**4 июля (среда)  
15.00**

**Конференц-зал ЛТФ**

**Nu Xu**

Lawrence Berkeley National Laboratory

## **Recent Results from STAR at RHIC**

The goal for high-energy nuclear collision is to create the Quark-Gluon Plasma: a thermalized partonic system with collective excitation. In this talk, after a brief reviewing of the STAR detector, I will present the recent results from the experiment at RHIC. The focus will be given to the bulk properties of the system created in Au+Au collisions. The elliptic flow, radial flow and partonic collectivity will be discussed. In addition, I will discuss two near future programs at RHIC: (i) the heavy flavor program – study charm collectivity and light flavor thermalization at RHIC; (ii) the energy scan program – search for the QCD phase boundary.

### **Reference:**

[1] B.Abelev, *et.al.*, (STAR Collaboration), nucl-ex/0703033.

[2] J.Adams, *et.al.*, (STAR Collaboration), Nucl. Phys. **A757** (2005) 102.