

The 98th HENPIC seminar by Dr. Zaochen Ye (叶早晨), Rice University (美国莱斯大学), April 2nd, 2020, Thursday, 10:30am (Beijing time)

Title: Quarkonium Measurements in p+p, p+Au and Au+Au Collisions at 200 GeV with the STAR Experiment

Abstract:

Measurements of quarkonium production are an important tool to study the properties of the Quark-Gluon Plasma (QGP) formed in relativistic heavy-ion collisions. Quarkonium suppression due to the color-screening effect was proposed as a direct evidence of the QGP formation. However, other effects, such as cold nuclear matter effects and regeneration, add additional complications to the interpretation of the observed suppression. Different quarkonium states with different binding energies are expected to dissociate at different temperatures, and therefore measurement of this “sequential melting” can help constrain the temperature of the medium. In this seminar, I will present and discuss the latest measurements of quarkonium (J/ψ and Υ) production in p+p, p+Au and Au+Au collisions at 200 GeV with the STAR experiment.

报告人简介：叶早晨，2006年-2010年，兰州大学本科；2010年-2012年，兰州大学硕士研究生；2012年-2018年，伊利诺伊大学芝加哥分校博士。2018年底加入莱斯大学从事博士后研究工作，目前的主要研究兴趣是极端相对论重离子碰撞中双轻子的产生。