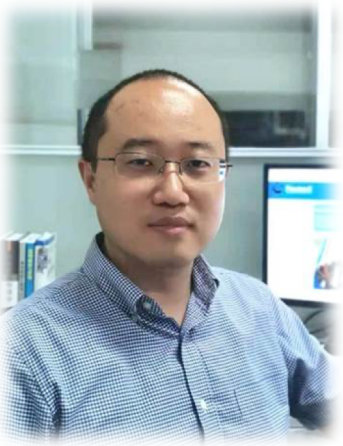
EXPERIMENTAL PHYSICS DIVISION SEMINAR

INSTITUTE OF HIGH ENERGY PHYSICS, CAS

Recent progress and plan of PandaX experiment



Speaker: Prof. Ning Zhou (SJTU)

Host: Prof. Liangjian Wen

Time: 14:00, Saturday 7th May 2022

Indico: indico.ihep.ac.cn/event/16725/

Zoom ID: 89956575112

Password: 244275

Abstract:

PandaX experiment uses xenon as target to detect weak and rare physics signals, including dark matter and neutrinos. We are running a new generation detector with 4-ton xenon in the sensitive volume, PandaX-4T. The commissioning run data has pushed the constraints on WIMP-nucleon scattering cross section to a new level. This talk will give an overview of PandaX-4T experiment and data-taking. New results on several other interesting dark matter models will be also reported in this talk.

About the speaker:

周宁，2003年毕业于南京大学匡亚明学院，2010年在美国哥伦比亚大学获得博士学位。上海交通大学物理与天文学院副教授，博士生导师。中组部青年千人专家，PandaX实验合作组的副发言人。长期从事基本粒子性质以及相互作用的研究，特别是暗物质新物理的实验探测，包括位于锦屏地下实验室的PandaX暗物质直接探测实验和欧洲核子中心的ATLAS对撞机探测实验。