

## The 171th HENPIC seminar by Prof. Jian-ping Chen (JLab), Aug. 18th, Thursday, 10:30 am (UTC+8)

Talk Title: Overview of the JLab SoLID Program: Intensity Frontier for High Energy Nuclear Physics

Abstract: The SoLID device at Jefferson Lab pushes the limit of the intensity frontier to a new level. The advancements in detector, data acquisition and data processing technologies enables SoLID to have orders-of-magnitude improvement in figure-of-merit (luminosity and acceptance) over the existing devices. A rich vibrant physics program is planned in precision imaging of the 3-d structure of the nucleon, a precision test of physics beyond the Standard Model and an exploration of the gluonic field effects in proton properties. An overview of the SoLID physics program will be presented along with the current status of SoLID.

About the speaker: Chen, Jian-ping (陈剑平) is a Senior Staff Physicist at Jefferson Lab. He is a spokesperson for over a dozen JLab experiments. He is a project manager and member of the executive committee for SoLID. His research interests are on spin and 3-d structure of the nucleon, few-body physics and low energy test of Standard Model. He also leads efforts in advancement of polarized  $^3\text{He}$  target. He received his B.S. from USTC in 1982; came to US for graduate study through CUSPEA program; received PhD from U. of Virginia in 1990; did postdoc at U. Virginia and MIT before joining Jefferson Lab as a Staff Physicist in 1994.

### Summary