



Invitation

LMU-Seminar

Title: Status of China Spallation Neutron Source and Planning of a Muon Source

Speaker: Prof. Dr. Jingyu Tang
Institute of High Energy Physics (IHEP) and University of Chinese Academy of Sciences (UCAS)

Time: Wednesday, August 15th 2018, 09:30

Place: WBGB/019

Abstract:

CSNS (China Spallation Neutron Source) is the first spallation neutron source in China, aiming to support multidisciplinary research based on neutron scattering techniques. The design beam powers are 100 kW at Phase-I and 500 kW at Phase-II, respectively, with a proton beam of 1.6 GeV and 25 Hz. CSNS shut the first proton beam on target in August 2017 and completed all the technical acceptance tests in March 2018. The commissioning and initial operation were very successful, and some user experiments have been carried out with a beam power of gradually increased to 20 kW. In addition to neutron scattering applications, other platforms like muon source, white neutron source and proton beam itself have been planned from the beginning. A muon facility called EMuS (Experimental Muon Source) have been studied, which aims to provide high-intensity muon beams for different research areas. Now EMuS has good opportunity to start the phased construction in near future.

Speaker: Prof. Dr. Jingyu Tang, senior researcher at Institute of High Energy Physics (IHEP) and professor at University of Chinese Academy of Sciences (UCAS). His main interests are accelerator physics and technology for high-intensity hadron accelerators and beam applications. He played key roles in projects including China Spallation Neutron Source (CSNS) and China Accelerator-Driven System (C-ADS), and initiated and promoted the projects like Back-n white neutron source and EMuS muon source at CSNS. Currently he is also leading the studies of a future neutrino beam facility – MOMENT and future super proton-proton collider - SPPC.