Generation and Application of Continuous Variable Entangled States

Speaker: Xiaojun Jia, Shanxi University
Time: 2:00-3:00pm, Tuesday, July 30, 2019
Venue: Room 264, Geography Building, Zhongbei Campus, ECNU

Abstract:
Continuous variables entangled state of light is one of the essential quantum resources in quantum information science and technology because the correlation variance of some quadratures are below the corresponding standard quantum limit. Based on the generation of different kinds of entangled states in continuous variable region, several works are realized in our group recently: 1. Quantum secret sharing among four players; 2. Storage and transfer of deterministic quantum entanglement among three spatially separated atomic ensembles; 3. Deterministic quantum teleportation through fiber-channel.

Biography:
Xiaojun Jia, Professor in Shanxi University. He received his BS degree from the department of Physics, Shanxi University in 2000, and his PhD degrees from Institute of Opto-Electronics, Shanxi University in 2005, respectively. After his graduation, he continued staying in Institute of Opto-Electronics as a faculty member. From then on, he has finished a series of work in continuous variable quantum information processing. During this period, he has published more than 80 technical journal papers, including 1 in Science Advances, 1 in Nature Communications, 5 in Physical Review Letters, with total citation > 800.