

**City University of Hong Kong
Department of Physics
Hong Kong Institute for Advanced Study**

Workshop on Quantum Dynamics of Light and Matter Interactions

Date: 16 May, 2023

Time: 2:00 – 6:00PM

Venue: LT3, YEUNG KIN MAN Academic Building

Program

- 14:00 – 14:05 **Introduction (Prof. Yang Ren, Head of Department of Physics)**
- 14:05 – 14:10 **Welcome (Prof. Xun-Li Wang, Executive Director, Hong Kong Institute for Advanced Studies)**
- 14:10 – 14:15 **Opening remarks by Prof. Serge Haroche (Senior Fellow, Hong Kong Institute for Advanced Studies, Nobel Laureate in Physics)**

Invited Talks Session (I)—Chair: Zhe-Yu Jeff Ou

- 14:15 – 14:45 Quantum sensing of arbitrary types and orders of time-ordered correlators
Speaker: Prof. Renbao Liu (Chinese University of Hong Kong)
- 14:45 – 15:15 Quantum-light spectroscopy to monitor electron dynamics in molecules
Speaker: Dr. Zhedong Zhang (City University of Hong Kong)
- 15:15 – 15:45 Quantum sensing with quantum measurement and quantum correlation
Speaker: Prof. Sen Yang (Hong Kong University of Science and Technology)

Coffee break and photography

Invited Talks Session (II)—Chair: Xiao Li

- 16:15 – 16:45 Quantum control and interaction of ultracold molecules
Speaker: Prof. Dajun Wang (Chinese University of Hong Kong)
- 16:45 – 17:15 Lossy atoms in a topological band
Speaker: Prof. Gyu-Boong Jo (Hong Kong University of Science and Technology)
- 17:15 – 17:45 On the relation between information and energy
Speaker: Dr. Oscar Dahlsten (City University of Hong Kong)
- 17:45 – 17:50 **Closing Remarks (Prof. Zhe-Yu Jeff Ou)**
- 19:00 – 21:00 **Banquet at Crystal Harbour Restaurant (天澄閣中菜廳)**