

### **About the Conference:**

Atoms, molecules, and light have been at the forefront of understanding quantum mechanics, since its discovery over 100 years ago. Since then the field has progressed from understanding the most fundamental aspects of how particles behave under quantum mechanics to controlling individual atoms for creating new technologies. While matter and light are from ordinary experience rather different, with today's control of coherent quantum phenomena many of the ideas freely cross their respective boundaries. Some of the topics that will be covered at the conference include, but are not limited to, cold atoms & cold molecules, ultrafast & precision spectroscopy, quantum manipulation & precision measurement, quantum computing & quantum communication, and quantum metrology. In this conference we aim to bring together the leading experts working in the frontiers of atomic, molecular, and optical systems.

### **Scientific Committee:**

#### **Guoxiang Huang**

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NYU-ECNU Institute of Physics at NYU Shanghai;

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#### **Daniel L. Stein**

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#### **Jian Wu**

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#### **Haibin Wu**

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State Key Laboratory of Precision Spectroscopy  
East China Normal University

#### **Tim Byrnes**

Assistant Professor of Physics at NYU Shanghai



### **Invited Speakers:**

Jürgen Appel (Copenhagen, Denmark)  
Luiz Davidovich (Universidade Federal Do Rio De Janeiro, Brazil)  
Jonathan Dowling (LSU, USA)  
Luming Duan (Michigan, USA)  
Claude Fabre (Universite Pierre Et Marie Curie, France)  
Elisabeth Giacobino (CNRS Laboratoire Kastler-Brossel, France)  
Rudolf Grimm (Innsbruck, Austria)  
Fedor Jelezko (Ulm, Germany)  
Ruxin Li (SIOM, China)  
Peter Van Loock (Mainz, Germany)  
Longsheng Ma (ECNU, China)  
Jian-Wei Pan (USTC, China)  
Jean-Francois Roch (ENS Cachan, France)  
Bao-Sen Shi (USTC, China)  
Masahito Ueda (Tokyo, Japan)  
Pengjun Wang (Shanxi, China)  
Jörg Wrachtrup (Stuttgart, Germany)  
Min Xiao (Arkansas, USA)  
Lei Xu (Fudan, China)  
Li You (Tsinghua, China)