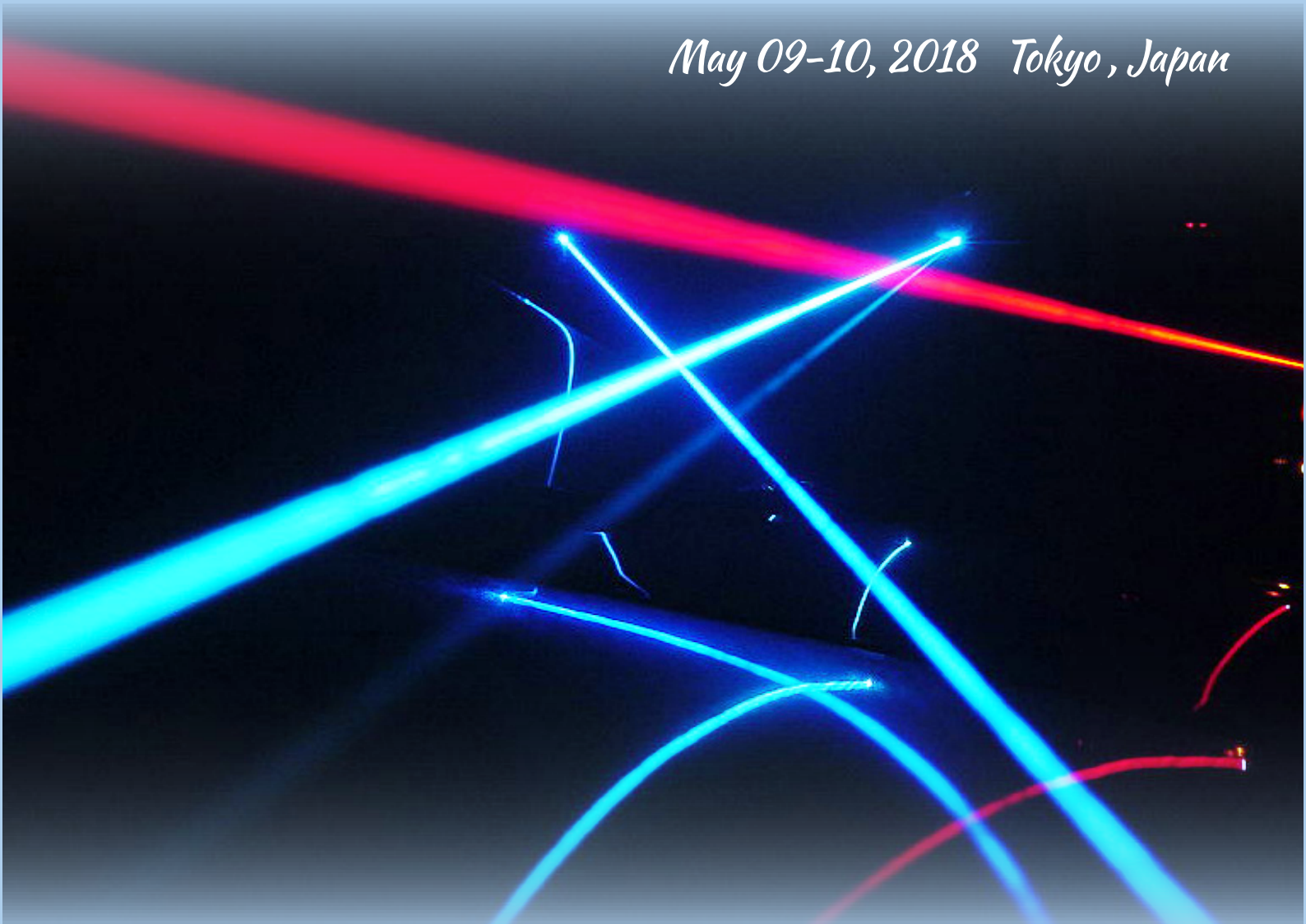


*Scientific Program*

*International Conference on*

# QUANTUM PHYSICS, OPTICS AND LASER TECHNOLOGIES

*May 09-10, 2018 Tokyo, Japan*



Conference Series

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Day 1 May 09, 2018

09:00-09:15 Registrations

**conference**series.com **Kacho A**  
09:15-09:25 **Opening Ceremony**

**Keynote Forum**

09:25-09:30 **Introduction**

**Title: Phase stability in next-generation atomic frequency standards**

09:30-10:15

**David Allan Howe**, University of Colorado Boulder, USA

**Title: Filamentation in air and applications**

10:15-11:00

**Andre Mysyrowicz**, ENSTA-Ecole Polytechnique, France

Group Photo

Networking & Refreshments Break 11:00-11:20 @ Preconference Area/Foyer

11:20-12:05

**Title: The evidence of magnetic monopoles by astronomical observation and its astrophysical implication**

**Qiuhe Peng**, Nanjing University, China

12:05-12:50

**Title: High-Tc superconducting applications in society: Super-magnets**

**Muralidhar Miryala**, Shibaura Institute of Technology, Japan

Lunch Break 12:50-13:50 @ California Restaurant

**Special Session**

**Title: The generalized Hankel-Clifford and extended generalized Hankel-Clifford transforms with compact support on certain range**

13:50-14:20

**V R Lakshmi Gorty**, SVKM's Narsee Monjee Institute of Management Studies, India

**Title: Laser Based Solid State Lighting and Visible Light Communication**

14:20-14:50

**Dalip Singh Mehta**, Indian Institute of Technology Delhi, India

Session Introduction

Sessions: Quantum Technology | Quantum States | Fiber Laser Technology | Quantum Science and Technologies | Quantum Mechanics | Physical Mathematics | Quantum Optics

Session Chair: **David Allan Howe**, University of Colorado Boulder, USA

14:50-15:20

**Title: MID-IR spectroscopy of Nd<sup>3+</sup> and Ce<sup>3+</sup> ions in crystals**

**Alessandra Toncelli**, University of Pisa, Italy

15:20-15:50

**Title: Motley string or from 10 to 4**

**George Yury Matveev**, IT Consultant, Sweden

Networking & Refreshments Break 15:50-16:10 @ Preconference Area/Foyer

**Special Session**

**Title: Route to understand non-ergodic quantum systems**

16:10-17:10

**Prosenjit Singha Deo**, S N Bose National Centre for Basic Sciences, India

Panel Discussions

Day 2 May 10, 2018

**Kacho A**

**Keynote Forum**

09:25-09:30 **Introduction**

**Title: Comprehensive study of dynamic behavior of nonlinear dispersive quantum-cascade lasing medium under different cavity configurations**

09:30-10:15

**Jing Bai**, University of Minnesota Duluth, USA

**Title: Studies on improving the external quantum efficiency of deep ultraviolet light emitting diodes**

10:15-11:00

**Wengang Bi**, Hebei University of Technology, China

Networking & Refreshments Break 11:00-11:20 @ Preconference Area/Foyer

**11:20-12:05** **Title: Recent advances in quantitative phase microscopy and nanoscopy for application in biology**  
**Dalip Singh Mehta**, Indian Institute of Technology Delhi, India

Session Introduction

**Sessions: Quantum Physics and The Universe | Laser Optics | Quantum Cryptography | Laser Diode & Sensors | Application of Laser | Optical Nanomaterials**

**Session Chair: Qiuhe Peng**, Nanjing University, China

**12:05-12:35** **Title: Overcooled gas flow assisted quantum computing**  
**Konstantin A Lyakhov**, Jeju National University, Republic of Korea

**12:35-13:05** **Title: Liquid crystal display and photonics devices: New trends**  
**Vladimir G Chigrinov**, Hong Kong University of Science and Technology, Hong Kong

Lunch Break 13:05-14:00 @ California Restaurant

**14:00-14:30** **Title: Hydrodynamical aspect of the physical vacuum**  
**Valeriy I Sbitnev**, National Research Center Kurchatov Institute, Russia

**14:30-15:00** **Title: Gravity and light repel each other**  
**Iraj Khalilymoghadam**, Iran

**15:00-15:30** **Title: Discovery of analytical method defined of wave parameters gravitation field**  
**Valentiy Aleksievitch Nastasenko**, Kherson State Maritime Academia, Ukraine

Networking and Refreshments Break 15:30-15:50 @ Preconference Area/Foyer

**15:50-16:20** **Title: High power/energy high repetition rate mono-module disk laser**  
**V V Apollonov**, Prokhorov General Physics Institute of the Russian Academy of Sciences, Russia

### Poster Presentation @ 16:20-17:00

**P1** **Title: The influence of beam-cone-angle on the high energy laser induced damage of optical thin film**  
**Han Kai**, National University of Defense Technology, China

**P2** **Title: Numerical research of mid-infrared supercontinuum generation in ZBLAN fibers**  
**Weiqiang Yang & Feng He**, National University of Defense Technology, China

Panel Discussions

Awards & Closing Ceremony

