

**Trapped Charged Particle and Fundamental Physics**

# TCP school

**- jointly organized with E<sup>3</sup> project -**

**November 28th - 29th: RIKEN Nishina Hall**

*A great opportunity for students to interact with leading scientists in the field*



**FREE**

Registration:



## Program

### DAY 1

09:10 Coffee

09:30 Opening

10:00 LECTURE 1: **Stefan Ulmer (RIKEN)**

**“Basics of ion traps”**

12:00 Lunch

13:30 LECTURE 2: **Richard Thompson (Imperial College London)**

**“Optical sideband cooling of an ion to the ground state of its motion in a Penning trap”**

14:30 LECTURE 3: **Ryugo Hayano (Univ. of Tokyo)**

**“Basics of antimatter science”**

16:30 Coffee

17:00 Facility tour

18:00 Welcome reception

### DAY 2

09:30 Coffee

10:00 LECTURE 4: **Hidetoshi Katori (RIKEN, Univ. of Tokyo)**

**“Optical lattice clock for fundamental physics”**

11:00 LECTURE 5: **Vladimir Dzuba (Univ. of New South Wales)**

**“Basics of fundamental physics with stored HCI”**

12:00 Lunch

13:30 LECTURE 6: **Yuri Litvinov (GSI)**

**“Physics with storage rings”**

14:30 Coffee

15:00 LECTURE 7: **Wilfried Nörtershäuser (Technische Universität Darmstadt)**

**“Laser spectroscopy of stored ions”**

17:00 Closing