

## Program (Tentative)

### Opening

Chair: Hisayoshi Itoh (QST, Japan)

- 14 : 00~14 : 05 Opening Remarks, Toshio Hirano (President, QST)
- 14 : 05~14 : 10 Opening Remarks, Masaki Takata (President, PhoSIC)
- 14 : 10~14 : 15 Opening Remarks, Hideo Ohno (President, Tohoku Univ.)
- 14 : 15~14 : 20 Greetings, Yasuyoshi Kakita (MEXT)
- 14 : 20~14 : 35 Photo-session

### Session 1. Keynote speech

Chair: Wataru Utsumi (QST, Japan)

- 14:40~15:30 “A Perspective on Synchrotron Radiation Facilities and Sciences”  
Nobuhiro Kosugi (KEK, Japan)

(Refreshment)

### Session 2. Outline of NanoTerasu

Chair: Masamitsu Takahashi (QST, Japan)

- 15:45~16:15 “Overview of NanoTerasu”  
Wataru Utsumi (QST, Japan)
- 16:15~16:45 “Overview of accelerator of NanoTerasu”  
Nobuyuki Nishimori (QST, Japan)

### Session 3. Posters & Exhibition (online)

Chair: Masataka Kado (QST, Japan)

- 18:00~20:00
  - Poster presentation on line
  - Exhibition (video of NanoTerasu)

2<sup>nd</sup> Day (Tuesday, Nov. 15th, 2022)

**Session 4. RIXS beamline and applications**

Chair: Masaki Fujita (Tohoku Univ., Japan)

9:30~10:00 “Resonant Inelastic X-ray Scattering at the SIX Beamline of NSLS II: An update on the beamline status and scientific achievements”  
Valentina Bisogni (BNL, USA)

10:00~10:15 “Ultrahigh Resolution RIXS Facility at NanoTerasu”  
Jun Miyawaki (QST, Japan)

10:15~10:30 “Dynamics of spin, orbital and charge excitations in strongly correlated materials revealed by high-resolution resonant inelastic X-ray scattering”  
Atsushi Hariki (Osaka Metropolitan Univ., Japan)

10:30~10:45 “Collective excitations from exotic quantum states in correlated materials”  
Hakuto Suzuki (Tohoku Univ., Japan)

(Refreshment)

**Session 5. ARPES beamline and applications**

Chair: Hideaki Iwasawa (QST, Japan)

11:00~11:30 “Novel sample environments for NanoARPES”  
Eli Rotenberg (LBL, USA)

11:30~11:45 “Nano-ARPES beamline at NanoTerasu”  
Koji Horiba (QST, Japan)

11:45~12:00 “Micro-ARPES study of exotic topological materials”  
Takafumi Sato (Tohoku Univ., Japan)

12:00~12:15 “Spin-resolved photoemission and its future prospect”  
Taichi Okuda (Hiroshima Univ., Japan)

(Lunch)

**Session 6. XMCD beamline and applications**

Chair: Tetsuro Ueno (QST, Japan)

14:00~14:30 “Scientific opportunities with advanced magnetic X-ray spectromicroscopies”  
Peter Fischer (LBL, USA)

14:30~14:45 “Microscopic magnetospectroscopy beamline at 3-GeV next-generation synchrotron radiation facility, NanoTerasu”  
Yoshiyuki Ohtsubo (QST, Japan)

14:45~15:00 “XMCD studies of 2D Material/Magnetic Material Heterostructures for Next Generation Spintronics”  
Seiji Sakai (QST, Japan)

15:00~15:15 “Time-resolved XMCD as a probe of spin dynamics in magnetic multilayers”  
Adriana I. Figueroa (The University of Barcelona, Spain)

(Refreshment)

### **Session 7. Imaging at the Coalition Beamlines**

Chair: Yukio Takahashi (Tohoku Univ., Japan)

Chair: Yoshio Watanabe (PhoSIC, Japan)

15:30~16:00 “Frontiers of dynamic tomographic phase-contrast microscopy on synchrotrons and translation opportunities to hospitals”  
Marco Stampanoni (PSI, Switzerland)

16:00~16:20 “Overview of 7 Coalition-beamlines”  
Tetsuya Nakamura (Tohoku Univ., Japan)

16:20~16:35 “Recent Advances and Future Potential of Synchrotron X-ray Tomography with Millisecond-Order Temporal Resolution”  
Wataru Yashiro (Tohoku Univ., Japan)

16:35~16:50 “Visualization of nanoscale structures and chemical states by coherent X-ray diffraction imaging”  
Yukio Takahashi (Tohoku Univ., Japan)

### **Closing**

16:50~17:00 Closing Remarks, Hisayoshi Itoh (QST, Japan)