

# Joint International Workshop of WFF & WFSM 2025

**The 11th Workshop on New Frontiers in Ferroelectrics 2025  
& The 9th Workshop on Functional and Smart Materials 2025**

## Program

**7th March 2025**

10:00	Group discussion & Free discussion
13:00	Lunch break
14:00	Hiroshi TAKASHIMA (AIST)
	<i>Opening</i>
14:10	Yukiya HAKUTA (AIST)
	<i>Process for treating hexagonal boron nitride particles using femtosecond laser-generated underwater plasma</i>
14:50	Kosuke MATSUZAKI (AIST)
	<i>Fabrication of High-Quality Nitride Crystals Using Activated Ammonia as a Nitrogen Source</i>
15:30	Break
16:00	Kenji OHWADA (QST)
	<i>Three-dimensional non-destructive imaging of polarization domains in a single particle within sintered ceramics using the Bragg-CDI technique under an applied electric field</i>
16:40	Hiroshi TAKASHIMA (AIST)
	<i>Preparation of freestanding BaTiO<sub>3</sub> nanocrystalline films and their dielectric properties</i>
17:20	Shintaro YASUI ( Institute of Science Tokyo)
	<i>Social implementation of next-generation aqueous solid-state batteries</i>
19:00	Banquet

## 8th March 2025

9:00	<b>Hiroki MORIWAKE (JFCC, Institute of Science Tokyo)</b>
	<i>Ferroelectric materials exploration based on first-principles calculations and materials informatics</i>
9:40	<b>Yosuke HAMASAKI (National Defense Academy)</b>
	<i>Ferroelectricity in AB<sub>2</sub>V<sub>2</sub>O<sub>8</sub> (A=Sr, Pb, B= Co, Mg)</i>
10:20	<b>Break</b>
10:50	<b>Shinya TSUKADA (Shimane University)</b>
	<i>Structure and dielectric responses of BaTiO<sub>3</sub> fine particles investigated by Raman spectroscopy</i>
11:30	<b>Kenzo ISHIKAWA (Hokkaido University)</b>
	<i>Principle of Quantum Mechanics and Transition Probabilities: Corrections to Fermi's Golden Rule</i>
11:50	<b>Masaki TAKESADA (Hokkaido University)</b>
	<i>Observation of Correction term to Fermi's Golden Rule by Rayleigh Scattering</i>
12:10	<b>Masaki TAKESADA (Hokkaido University)</b>
	<b>Closing</b>
12:20	<b>Lunch break</b>
13:30	<b>Group discussion &amp; Free discussion</b>
17:00	

## 9th March 2025

10:00	<b>Group discussion &amp; Free discussion</b>
18:00	
	<b>Excursion</b>