

**Dec. 12(Fri.), 2025**

# **1st Workshop on Physical Properties of Two-Dimensional Materials**

**Date** **December 12, 2025 (Fri.) from 13:30**  
(registration starts at 13:00)

**Venue** **Namiki Campus, National Institute for Materials Science  
(NIMS)**

**Language** **English**

This workshop aims to review recent breakthroughs in the physical properties of two-dimensional (2D) materials, including materials synthesis, advanced measurement techniques, theory, and device applications. It also seeks to identify specific “next collaborative work” to pursue. We will focus on the following themes through invited talks by leading researchers, followed by poster sessions and interactive discussions.

1. Transport properties and electronic device physics of 2D materials and their heterostructures
2. Novel quantum phases and optical responses arising from moiré superlattices
3. Bridging wafer-scale synthesis/defect control and physical properties

**Invited Talk 1** 13:35–14:15

**Daisuke Kiriya**

(The University of Tokyo)

Chemical Modulation of Electronic Properties in Transition Metal Dichalcogenides

**Invited Talk 2** 16:10–16:50

**Kei Kinoshita**

(The University of Tokyo)

van der Waals quantum well devices based on WSe<sub>2</sub>/h-BN junctions

**Contributed Talk** 16:50–17:30

**Shuichi Iwakiri**

(NIMS)

Year One at NIMS  
— Progress and Outlook in Soft Quantum Materials

