



TOHOKU UNIVERSITY



Graduate Program in Spintronics

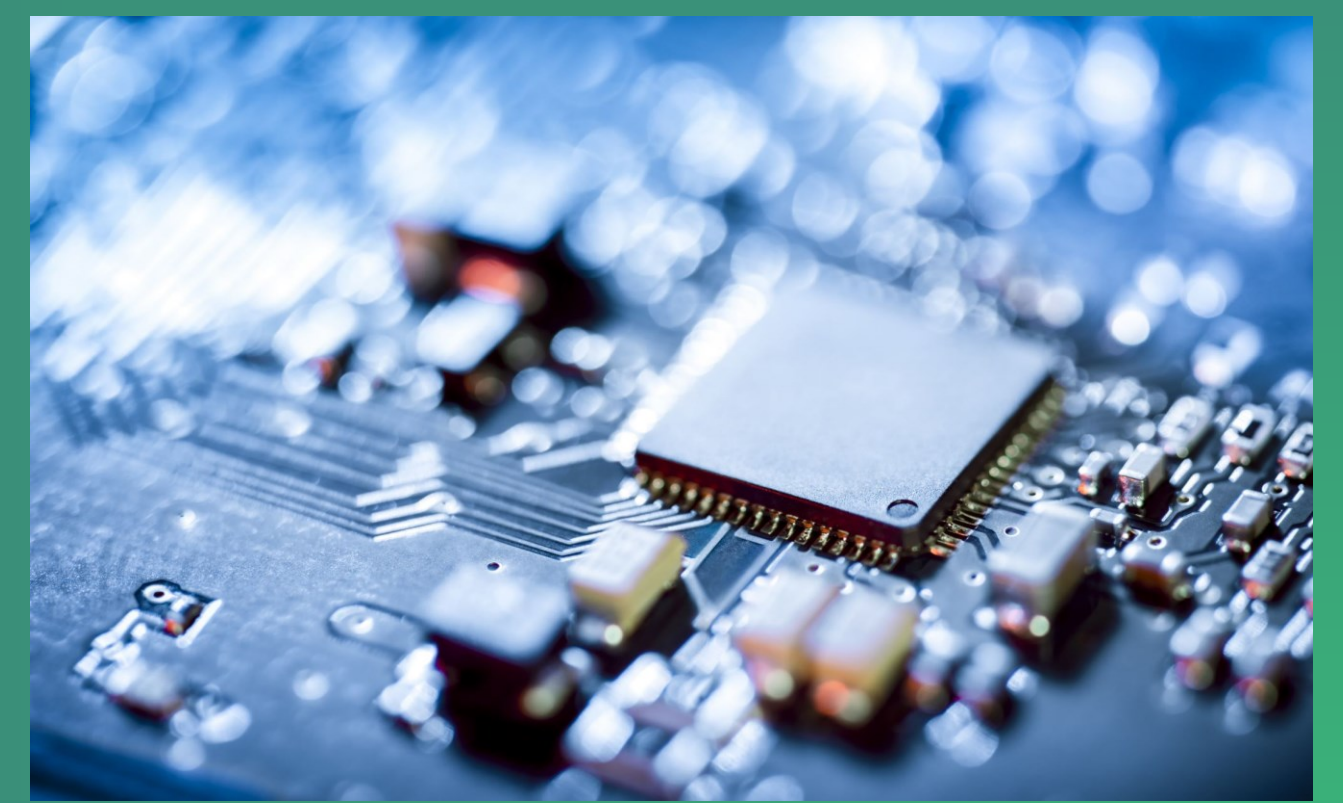
# The 7th Symposium for the Core Research Clusters for Materials Science and Spintronics, and the 6th Symposium on International Joint Graduate Program in Materials Science and Spintronics

## Advancements of Spintronics Materials and Devices ~ from Fundamental to Applications ~

### Outline

We are pleased to announce a workshop dedicated to cutting-edge research in the field of spintronics. This workshop will feature distinguished speakers from both domestic and international arenas, spanning a wide range from the forefront of fundamental research to practical applications in the field of spintronics.

We aim to provide a platform to deepen insights into remarkable their discoveries for young researchers and scholars, and accelerate research and development in the field of spintronics.



### Lecture talks



Prof. Masayuki Suda

“Chiral van der Waals Superlattices for Novel Spintronics without Magnet”



Kyoto University  
Nov. 29<sup>th</sup> 15:15~16:00



Prof. Johan Åkerman

“Spin Torque and Spin Hall Nano-Oscillators”



The Univ. of Gothenburg  
Nov. 30<sup>th</sup> 9:00~9:45



Prof. Philippe Talatchian

“Magnetic tunnel junctions: from fundamentals to applications”



CEA-SPINTEC  
Nov. 30<sup>th</sup> 9:45 – 10:30

### Session1: Spin-functional materials, November 29th 15:15~17:50

1. Lecture	Masayuki Suda	“Chiral van der Waals Superlattices for Novel Spintronics without Magnet”	15:15~16:00
2. Invited	Safeer Chenattukuzhiyil	“Spin-charge interconversion in van der Waals heterostructures”	16:00~16:30
3. Invited	Masaki Nakano	“Emergent 2D magnetism explored by MBE”	16:50 ~ 17:20
4. Invited	Tomoyuki Yokouchi	“Giant Magnetochiral Anisotropy in Weyl-semimetal WTe2 Induced by Diverging Berry Curvature”	17:20 ~ 17:50

### Session2: Spintronics devices, November 30th 9:00~11:50

1. Lecture	Johan Åkerman	“Spin Torque and Spin Hall Nano-Oscillators”	9:00 ~ 9:45
2. Lecture	Philippe Talatchian	“Magnetic tunnel junctions: from fundamentals to applications”	9:45~10:30
3. Invited	Zhaochu Luo	“Electrically Programmable Nanomagnetic Ising Network”	10:50 ~ 11:20
4. Invited	Tomosato Hioki	“Magnon parametron: a magnonic device with unconventional fluctuation”	11:20 ~ 11:50

### Venue & Contact

**Place:** Nano Spin 4F conference room (A402), Laboratory for Nanoelectronics and Spintronics, Research Institute of Electrical Communication, Tohoku University (Katahira Campus)

※This seminar will be held ONSITE ONLY

**Contact:** [tappei.kawakami.sl@dc.tohoku.ac.jp](mailto:tappei.kawakami.sl@dc.tohoku.ac.jp)

### Registration & Information

**Website:** <https://gp-spin.tohoku.ac.jp/en/kyotensympo/>



Registration



Campus map

This workshop is supported by GP-Spin, Tohoku University.

2023, November, 29/30 Wednesday / Thursday  
**Spintronics Workshop**