



4th International Workshop of Spin/Quantum Materials and Devices (IWSQMD2025)

Date: January 26th - 27th, 2026

Venue: ESPAS, 2F Katahira Kitamon Kaikan, Katahira campus, Tohoku University

Registration fee: free

Organizers: S. Mizukami, S. Miki, K. Ishibashi (Tohoku University)

Supports: Center for Spintronics Research Network (CSRN), Tohoku Univ. &
Spintronics Research Network of Japan (Spin-RNJ), and KAKENHI (JSPS).

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スピントロニクス学術研究基盤と連携ネットワーク
SPINTRONICS RESEARCH NETWORK OF JAPAN

Time table

	Jan. 26th, Mon.		Jan. 27th, Tue.	
8:30				
			8:30-	Room open
9:00			9:00 - 9:30	Sasaki (NIMS)
9:30			9:30 - 10:00	Watanabe (Keio U.)
10:00			10:00 - 10:30	Oishi (Ritsumeikan U.)
10:30			break	
11:00			10:45 - 11:15	Hisatomi (Kyoto U.)
11:30			11:15 - 11:45	Sekine (QST)
			11:45 - 12:00	Closing
12:00				
12:30				
	12:45-	Room open		
13:00				
	13:25 - 13:30	Opening		
13:30	13:30 - 14:00	Tomita (Tohoku U.)		
14:00	14:00 - 14:30	Tashima (Kyoto U.)		
14:30	14:30 - 15:00	Sakamoto (Tohoku U.)		
15:00	break			
	15:15 - 15:45	Yamada (Science Tokyo)		
15:30				
	15:45 - 16:15	De (Tohoku U)		
16:00				
	16:15 - 17:00	Aeschlimann (RPTU University Kaiserslautern- Landau) <i>Special lecture</i>		
16:30				
17:00				
17:30				
18:00	Meeting to Exchange Opinions			

Program

1st Day: Jan. 26th, Monday, 2026

13:25-

Opening

Shigemi Mizukami (Tohoku Univ.)

Session A

Chair : Kazuaki Ishibashi (Tohoku Univ.)

13:30-

“Time-varying magnetic metamaterials for synthetic motion”

Satoshi Tomita (Tohoku Univ.)

14:00-

“Quantum infrared spectroscopy using a broadband visible-infrared quantum-correlated photon source”

Toshiyuki Tashima (Kyoto Univ.)

14:30-

“Probing a Chiral Antiferromagnet by Synchrotron X-ray Dichroism”

Shoya Sakamoto (Tohoku Univ.)

15:00- Coffee break

Session B

Chair : Soma Miki (Tohoku Univ.)

15:15-

“All-optical helicity-dependent magnetization switching in ferromagnetic metals”

Kihiro Yamada (Science Tokyo)

15:45-

“From ultrafast demagnetization via nutation to precession: a unified view of laser-driven spin dynamics”

Anulekha De (Tohoku Univ.)

16:15-

(Special lecture) “Ultrafast Magnetism Across Magnetic Material Classes”

Martin Aeschlimann
(RPTU University Kaiserslautern-Landau)

18:00- Meeting to exchange opinion

2nd Day: January 27th, Tuesday, 2026

Session C

Chair : Shigemi Mizukami (Tohoku Univ.)

9:00-

“All-optical study of spin dynamics in magnetic recording materials”

Yuta Sasaki (NIMS)

9:30-

“Frequency-comb-based precision metrology for spintronics research”

Shinichi Watanabe (Keio Univ.)

10:00-

“Circularly polarized Raman study of chiral phonons in α -quartz”

Eiichi Oishi (Ritsumeikan Univ.)

10:30- Coffee break

10:45-

“Optical vortex generation by magnons with spin-orbit-coupled light”

Ryusuke Hisatomi (Kyoto Univ.)

11:15-

“Visualization of structural domains in a layered semiconductor SnS using photoluminescence”

Daiki Sekine (QST)

11:45-

Closing

Shigemi Mizukami (Tohoku Univ.)