

JST-ASPIRE Workshop on Spin-Controlled Photofunctional Materials

Post-Conference Workshop of Optical Probes 2025



Date: September 29, 2025 (Mon)

Venue: 5F Auditorium, Chemistry Main Bldg., Hongo Campus, The University of Tokyo ([Google Map](#))

Admission: free, but please register from [this form](#)

Schedule

9:30–9:35 Opening Remarks

9:35–10:00 Nobuhiro Yanai (The University of Tokyo, Japan)

“Optical spin hyperpolarization and detection in chromophore materials”

10:00–10:25 Sabine Richert (Goethe University Frankfurt, Germany)

“Photogenerated multi-spin systems for quantum information science”

10:25–10:50 Yasuhiro Kobori (Kobe University, Japan)

“Nuclear motion induced quantum coherence in chromophore-radical linked system”

10:50–11:10 Break

11:10–11:35 Stefan Weber (University of Freiburg, Germany)

“Electron and nuclear hyperpolarization in photoreceptor proteins and related molecular systems”

11:35–12:00 Olav Schiemann (University of Bonn, Germany)

“Tailoring the Spin-Spin Coupling in Bistrityls”

12:00–13:30 Lunch & Networking

13:30–13:55 Karl Börjesson (University of Gothenburg, Sweden)

“Controlling singlet-triplet energetics using intramolecular strong exciton coupling”

13:55–14:20 Jenny Clark (University of Sheffield, UK)

“TBA”

14:20–14:45 Yuki Kurashige (Kyoto University, Japan)

“Electron Spin Dynamics in Quantum Chemistry: Transitions, Polarization, and Relaxation”

14:45–15:15 Break

15:15–15:40 Gordon Hedley (University of Glasgow, UK)

“Understanding Excitons with Single Molecule Spectroscopy”

15:40–16:05 Lewis Antill (Sungkyunkwan University, South Korea)

“Development of spectroscopic techniques for investigating quantum spin effects in biological environments”

16:05–16:30 Sarah Mann (University of Glasgow, UK)

“Optically Addressable and Chemically Tuneable Molecules for Quantum Sensing”

16:30–16:35 Closing Remarks

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