

Symposium on Topotronics for the Metaverse

Tokyo Institute of Technology, August 9th 2022



Scientific Program

Masaya Notomi (Tokyo Institute of Technology): Reconfigurable Topological Nanophotonics

Xiao Hu (WPI-MANA, NIMS): Towards semiconductor topological photonics

Shuichi Murakami (Tokyo Institute of Technology): Topological materials towards novel spintronic applications

Stewart Barnes (University of Miami): The Spin Berry Phase and Emergent Inductor-Capacitor-Resistance circuits

Pham Nam Hai (Tokyo Institute of Technology): Topological materials for ultralow power spintronic devices

Masaaki Tanaka (University of Tokyo): Renaissance of ferromagnetic semiconductors and their applications to spintronics and topological electronics

Le Duc Anh (University of Tokyo): Topological Dirac Semimetal α -Sn: A new platform for topological quantum physics and devices

Special talk

Christiane Kolla Barnes (Special guest): Switzerland, a unique political system

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Tokyo Institute of Technology, August 9th 2022
South 9th building- Room 605

13:30: Reception

13:50: Welcome

14:00: Masaya Notomi (Tokyo Institute of Technology)

Reconfigurable Topological Nanophotonics

14:30: Xiao Hu (WPI-MANA, NIMS)

Towards semiconductor topological photonics

15:00: Shuichi Murakami (Tokyo Institute of Technology)

Topological Materials towards novel spintronic applications

15:30: Stewart Barnes (University of Miami)

The Spin Berry Phase and Emergent Inductor-Capacitor-Resistance circuits

Special talk

16:00: Christiane Kolla Barnes (Special guest)

Switzerland, a unique political system

16:30: Pham Nam Hai (Tokyo Institute of Technology)

Topological materials for ultralow power spintronic devices

17:00: Masaaki Tanaka (University of Tokyo)

Renaissance of ferromagnetic semiconductors and their applications to spintronics and topological electronics

17:30: Le Duc Anh (University of Tokyo)

Topological Dirac Semimetal α -Sn: A new platform for topological quantum physics and devices

18:00: Discussion