

Tohoku-Lorraine Joint Conference 2021

March 3: Scientific session « Spintronic »

PROGRAM

8:30 – 11:30 (Nancy) / 16:30 – 19:30 (Sendai)

8:20 – 8:30 / 16:20 – 16:30	Welcome
8:30 – 9:45 / 16:30 – 17:45	Invited Talks #1 (5)
9:45 – 9:55 / 17:45 – 17:55	One-Slide Presentation #1 (5)
9:55 – 10:05 / 17:55 – 18:05	coffee break
10:05 – 11:20 / 18:05 – 19:20	Invited Talks #2 (5)
11:20 – 11:30 / 19:20 – 19:30	One-Slide Presentation #2 (5)

INVITED TALKS # 1

- Kaushalya Jhuria: **Picosecond spin-orbit torque switching in ferromagnets**
- Takeshi Seki: **Origin and Optical Switching of Perpendicular Magnetization for Co-Gd/Pt Multilayers**
- Heloise Damas: **Self-Spin-Orbit Torque in GdFeCo ferrimagnet**
- Satoshi Iihama: **Optical spin torque in ferromagnet/heavy metal thin films**
- Maryam Massoura: **Artificial spin systems: potential device for random number generation**

INVITED TALKS # 2

- Makoto Kohda: **Spatiotemporal dynamics of helical spin wave under persistent spin helix state**
- Claudia De Melo Sanchez : **Transport properties of Co₂MnSi Heusler compounds**
- Tufan Roy: **A combined study of computational prediction and experimental fabrication of quaternary Heusler alloy CoIrMnZ (Z = Al, Ga, Si, Ge)**
- Quentin Remy: **Control of Single Pulse All Optical Magnetization Switching of Ferromagnets**
- Shunsuke Fukami: **Spin-orbit torque-induced sub-nanosecond magnetization switching in in-plane magnetic tunnel junctions**

ONE-SLIDE PRESENTATION

- Hiroto Masuda: **Large spin Hall effect in a non-equilibrium Iridium-doped Copper binary alloy**
- Alberto Anadon: **Disentangling the anomalous Nernst and spin Seebeck effect in epitaxial Graphene/Cobalt heterostructures**
- Junta Igarashi: **Shape-anisotropy magnetic tunnel junctions with multilayered ferromagnets**
- Xiaofei Fan: **Magnetization control and all-optical switching mediated by phase transition of VO₂**
- Takashi Kimura: **Valley dynamics of charged exciton in monolayer WS₂ treated by organic acid**
- Wei Zhang: **All optical helicity-independent switching in GdT_bCo alloys**
- Kazuaki Ishibashi: **All-optical probe of magnetization precession frequency shift due to spin-orbit torque**
- Kousseila Ait-Oukaci: **Stripe domains in thin magnetic films for spin waves channeling**
- Junpei Sonehara: **Anisotropic spin relaxation and precession frequency depending on in-plane magnetic field orientation in GaAs-based wire structures**
- Jean Loïs Bello: **Zero field current induced switching of GdFeCo**