



スピントロニクス  
国際共同大学院



### GP-Spin/AIMR Mini Workshop on (Quantum) Magnonics

at the occasion of Prof. Yaroslav Blanter's visit to Tohoku University

*Monday, 5 February 2024, AIMR Seminar Room 2<sup>nd</sup> floor.*

#### Schedule

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| 9:00-9:30   | Jiahao Han (AIMR): Coherent antiferromagnetic spintronics: new opportunities for controlling the magnetic states of antiferromagnets. |
| 9:30-10:00  | Ping Tang (AIMR): Magnon Transport in non-collinear antiferromagnets and low-dimensional magnets                                      |
| 10:00-10:30 | Rob den Teuling (TU Delft): Spin Waves in Antiferromagnetically Coupled Bilayers  |
| 10:30-11:00 | Coffee/tea break  |
| 11:00-11:30 | Satoshi Iihama (AIMR): Nanoscale and high-performance magnon reservoir computing  |
| 11:30-12:00 | Keita Ito (IMR): Correlation between magnetostriction and magnetic damping  |
| 12:00-12:30 | Ryuhei Kohno (SRIS): Nonlocal magnon transconductance in extended magnetic insulating films   |
| 12:30-14:00 | Lunch break   |
| 14:00-14:30 | Shun Kanai (RIEC): Probabilistic spin dynamics in nanomagnetic tunnel junctions for unconventional computing                          |
| 14:30-15:00 | Mehrdad Elyasi (AIMR): Effect of magnon interactions on magnetization telegraph noise   |
| 15:00-15:30 | Yaroslav Blanter (TU Delft): Analog generation of magnonic quantum states   |
| 15:30-16:00 | Coffee break  |
| 16:00-16:30 | Yoshinori Onose (IMR): Novel magnetic dynamics in helimagnets: chirality control and sliding motion                                   |
| 16:30-17:00 | Kei Yamamoto (JAEA): Magnetostatic field induced by mechanical deformations   |