International Workshop on "New Excitations in Spintronics"

This international workshop was held from 10-14 January 2018 at the Institute for Materials Research of Tohoku University with support from the ICC-IMR.

Tohoku University has been a center of research on the physics of spintronics, i.e. the science and technology to control the charge and spin of the electrons in small structures and devices. Its researchers have profited in the past directly and indirectly from the support by the Reimei program of the ASRC of the JAEA and the Graduate Program on Spintronics (GP-Spin) of Tohoku University. In this workshop, we brought together the different blood groups of spintronics, who otherwise meet only in small groups at specialized workshops focused on a single topic. In particular, we wanted to stimulate exploration of novel ways of extending spintronics by coupling to other excitations, such as magnons, photons, phonons, spinons, cavitrons, excitons, orbitrons, etc. We invited selected researchers from spintronics and related fields in order to share results on the dispersion and lifetimes of such excitations and exchange thoughts and ideas that will lead to improved spintronic devices.

The members of the Program and Organizing Committee have been:

Gerrit Bauer (IMR & WPI-AIMR) [Chair] Sadamichi Maekawa (JAEA) [Co-Chair] Yoshiro Hirayama (Tohoku) [Co-Chair] Tim Ziman (ILL) [Co-Chair] Joseph Barker (IMR) Michiyasu Mori (JAEA) Kentaro Nomura (IMR) Eiji Saitoh (IMR & WPI-AIMR) Koji Sato (IMR) Koki Takanashi (IMR) Oleg Tretiakov (IMR) Mika Terada (IMR, secretary) Details of the scientific program including the participants as well as abstracts of oral and poster sessions can be found here: www.bauer-lab.imr.tohoku.ac.jp/reimei2018

The conference statistics are:

Number of Participants	104
From overseas	28
- Australia	1
- China	6
- Czech Republic	1
- France	2
- Germany	8
- Ireland	1
- The Netherlands	7
- USA	2

We are very grateful to the speakers, poster presenters, sponsors, organizing committee, and unnamed students of the IMR Theoretical Physics Group for making the Workshop a resounding success.

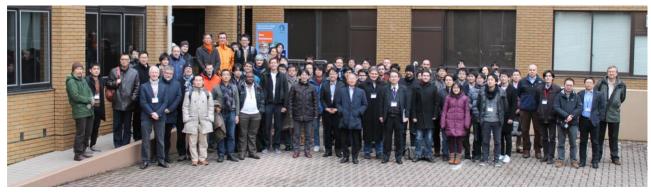


Fig. 1 Official NES2018 conference picture

Keywords: spintronics, magnetism, neutron scattering Gerrit Bauer, Institute for Materials Research, Tohoku University, Sendai, Japan E-mail: g.e.w.bauer@imr.tohoku.ac.jp http://www.bauer-lab.imr.tohoku.ac.jp/