



Contribution ID: 37

Type: **Talk**

【806】 Damping Modulation in Magnetic Thin Films

Wednesday 29 August 2018 15:00 (15 minutes)

Understanding and controlling the damping in ferromagnetic thin films is very important for emerging technologies including magnonics and spintronics. One of the possible ways to manipulate magnetic damping is injection of spin current generated due to spin Hall effect [1]. To measure the modulation of damping we use a time-resolved magneto-optical Kerr effect microscope (TR-MOKE), which has the best spatial and temporal resolution to measure the damping of the ferromagnetic film. The observations will significantly contribute to the field of spintronics.

References:

[1] L. Liu et. Al., Science, 336, 555-558 (2012)

Authors: Dr SAHA, Susmita (Laboratory for Mesoscopic Systems, Department of Materials, ETH Zurich, 8093 Zurich, Switzerland and Paul Scherrer Institut, 5232 Villigen, Switzerland); Dr LUO, Zhaochu (Laboratory for Mesoscopic Systems, Department of Materials, ETH Zurich, 8093 Zurich, Switzerland and Paul Scherrer Institut, 5232 Villigen, Switzerland); Mr ZHOU, Jingyuan (Laboratory for Mesoscopic Systems, Department of Materials, ETH Zurich, 8093 Zurich, Switzerland and Paul Scherrer Institut, 5232 Villigen, Switzerland); Ms KIRK, Eugenie (Laboratory for Mesoscopic Systems, Department of Materials, ETH Zurich, 8093 Zurich, Switzerland and Paul Scherrer Institut, 5232 Villigen, Switzerland); Prof. HEYDERMAN, Laura (Laboratory for Mesoscopic Systems, Department of Materials, ETH Zurich, 8093 Zurich, Switzerland and Paul Scherrer Institut, 5232 Villigen, Switzerland)

Presenter: Dr SAHA, Susmita (Laboratory for Mesoscopic Systems, Department of Materials, ETH Zurich, 8093 Zurich, Switzerland and Paul Scherrer Institut, 5232 Villigen, Switzerland)

Session Classification: Magnetism and Spintronics at the Nanoscale

Track Classification: Magnetism and Spintronics at the Nanoscale