

634th ASRC Seminar

Date: 13:30 — April 27

Location: Meeting Room 302, ASRC bldg.

Speaker: Dr. Yuta Yamane
(University of Mainz)

Title: Spin-transfer torque and spin-motive force
in antiferromagnets

Abstract: Recently, antiferromagnetic materials are grabbing more attention due to their potential to become a key player in spintronic applications. In this talk, we will discuss a formalism of spin-transfer torque and spin-motive force in antiferromagnets, and see that they can actually play as important roles as in conventional ferromagnetic spintronics; whereas the spin-transfer torque provides a route to controlling antiferromagnetic textures by electric current, the spin-motive force offers a way to detect and explore dynamical antiferromagnetic textures by electric voltage measurement.

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