

OPTOMAGNONICS 2017

	Monday 26	Tuesday 27	Wednesday 28
09:30 - 9:45	Registration	Koji Usami	Eugene Polzik
09:45 - 9:55	Introduction	<i>"Cavity optomagnonics with spherical magnets"</i>	<i>"Quantum interface of phonons and magnetic excitations with light"</i>
09:55 - 10:15	Overview		
10:15 - 11:00	Hong Tang <i>"Nonlinear optics in cavity optomagnonics"</i>	Yaroslav Blanter <i>"Light scattering by magnons in whispering gallery mode cavities"</i>	Gerrit Bauer <i>"Who is afraid of YIG?"</i>
11:00 - 11:30	Coffee Break	Coffee Break	Coffee Break
11:30 - 12:15	Michael Flatté <i>"Optomagnonics in magnetic solids"</i>	Sergej Demokritov <i>"Bose-Einstein condensation of magnons at room temperature"</i>	Yasunobu Nakamura <i>"Quantum magnonics in a ferromagnetic sphere of yttrium iron garnet"</i>
12:15 - 13:00	Can-Ming Hu <i>"Cavity Spintronics"</i>	Hugues de Riedmatten <i>"Creating Single Spin Waves in Rare-Earth doped Crystals"</i>	Andreas Angerer <i>"Hybrid Quantum Systems Coupling Color Centers to Cavities"</i>
13:00 - 14:00	Lunch	Lunch	Lunch
14:00 - 14:45	Dan Stamper-Kurn <i>"Cavity optodynamics of the spin and motion of an ultracold gas of atoms"</i>	Dirk Grundler <i>"Chiral magnets for magnonics"</i>	James Haigh <i>"Triple-resonant Brillouin light scattering in magneto-optical cavities"</i>
14:45- 15:30	Philipp Pirro <i>"Designing magnonic transport"</i>	Alexy Karenowska <i>"Magnonic circuit architectures for quantum measurements"</i>	Mikael Afzelius <i>"Generating non-classical correlations between photons and spins in a crystal"</i>
15:30 - 16:00	Coffee Break	Coffee Break	Coffee Break
16:00 - 16:45	Andreas Nunnenkamp <i>"Reservoir engineering of mechanical oscillators for amplification and nonreciprocal devices"</i>	Hans Huebl <i>"Controlling the Collective Coupling in Spin-Photon Hybrids"</i>	Sebastian Probst <i>"High sensitivity quantum limited electron spin resonance spectroscopy"</i>
16:45 - 17:30	Youtarou Takahashi <i>"Terahertz magnetoelectric optics with electromagnons on helical magnets"</i>	Discussions Lab Tours: 17:00 - 18:00	Closing/Discussions
17:30 - 18:30	Discussions	Discussions	
18:30 -19:30	Dinner MPL	Conference Dinner	
19:30 -21:00	Poster Session	Conference Dinner	

OPTOMAGNONICS 2017 - Posters

Name	Affiliation	Poster title
Mehrdad Elyasi	Tohoku University	Magnetic anisotropies in optomagnonics
Arnaud Gloppe	Tokyo University	Experimental mapping of magnetostatic mode structures of a ferrimagnet spheroid
Ryusuke Hisatomi	Tokyo University	Bidirectional conversion between microwave and light via ferromagnetic magnons
Daniel Malz	Trinity College Cambridge	Directional Amplifiers with Optomechanics
Francesca Mineo	Max Planck Institute for the Science of Light	Non-rigid core dynamics of magnetic nanovortices
Yuri Minoguchi	TU Vienna	What can Leggett-Garg Inequalities tell us about Quantum Tunneling?
Huajun Qin	Aalto University	Efficient excitation of perpendicular standing spin waves in yttrium iron garnet films
Hiroto Sakimura	Tokyo Institute of Technology	Creation of long-lived magnons by nonlinear spin dynamics
Koji Sato	Tohoku University	Electrical control of magnetic domain walls based on Dzyaloshinskii-Moriya interaction
Sanchar Sharma	Delft University	Optomagnonics in whispering gallery mode cavities
Mathias Weiler	TU Munich	Brillouin light scattering study of a strongly coupled magnon-polariton
Babak Zare Rameshti	IPM Tehran	Indirect coupling of magnons via cavity photons
Robert Zimmermann	FAU Erlangen- Nuremberg	Elements of a guided electron based quantum electron microscope