

MC18 Magnetization dynamics at nanoscale

Wednesday, 4 September, morning

Chairs: Maciej Krawczyk, Alex Jenkins

Room:

Hours	ID	Name	Type	Title
10h30-11h00		Farkhad Aliev	Invited	Interface driven magnon dynamics in antiferromagnet-ferromagnet and superconductor-ferromagnet hybrids
11h00-11h30	13324	Kostyantyn Gusliyenko	Invited	Bloch-point domain wall dynamics in a cylindrical magnetic nanowire
11h30-12h00	13664	Oleg Tretiakov	Invited	Bimerons in Magnetic Topological Materials
12h00-12h15	13056	Yannik Kunz	Oral	Non-reciprocal phonon-magnon interaction in yttrium-iron-garnet/zinc oxide heterostructure
12h15-12h30	13253	Rostyslav Serha	Oral	Damping enhancement in YIG films at millikelvin temperatures caused by GGG
12h30-12h45	12715	Artem Talantsev	Oral	Tunnelling magnetoresistance platforms for linear positioning and nanoscale displacements sensing
12h45-13h00	14037	Ana Vieira Silva	Oral	Ultrafast Spectroscopies to Probe Magnetic and Electronic Dynamics

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Wednesday, 4 September, afternoon

Chairs: Oleg Tretiakov, Yaroslav Bazaliy

Room:

Hours	ID	Name	Type	Title
16h00-16h30	13775	Maciej Krawczyk	Invited	Self-imaging effects in the field of magnonics: from the Talbot effect to computing
16h30-17h00	13709	Dmytro Bozhko	Invited	Magnetization dynamics from micro to macro scales: from magnetic rogue waves to macroscopic artificial spin ice
17h00-17h30	13832	Glib Kakazei	Invited	Dominant higher-order vortex gyromodes in circular magnetic nanodots
17h30-17h45	12846	John Mangeri	Oral	Coupled magnetostructural continuum model for multiferroic BiFeO ₃ : spin waves and switching
17h45-18h00	13838	Khrystyna Levchenko	Oral	Nanoscale Ga:YIG-based magnonic crystals
18h00-18h15	13790	Artem Bondarenko	Oral	Electrically controlled 2D magnon optics
18h15-18h30	12985	Marco Marino	Oral	Ab initio study of the Fe-phthalocyanine/NiO(001) spinterface

MC18 Magnetization dynamics at nanoscale**Thursday, 5 September, morning**

Chairs: Kostyantyn Guslienko, Dmytro Bozhko

Room:

Hours	ID	Name	Type	Title
10h30-11h00	12766	Alex Jenkins	Invited	Exploiting the non-linear dynamics of defect-induced pinning in vortex-based magnetic tunnel junctions for physical unclonable functions
11h00-11h30	13261	Alexander Serga	Invited	Bose–Einstein condensation of magnons at nanoscale
11h30-12h00	13444	Yaroslav Bazaliy	Invited	Alternative current Hanle effect on a single ferromagnet/normal metal interface
12h00-12h15	13100	Andrey Voronov	Oral	Inverse-design magnonics with nodal FD solve
12h15-12h30	12720	Maksim Stebliy	Oral	Non-volatile frequency reconfiguration of vortex oscillators
12h30-12h45	13635	Martin Zonda	Oral	Quantum-classical analysis of spin relaxation in nonequilibrium magnetic nanojunctions
12h45-13h00				Concluding remarks