

Trends in Magnetism TMAG 2022

4-9 September 2022, Venice (Italy)

Poster sessions

Poster Session I - Monday, Sept. 5, h.15:30

presenting author			poster title
Nemec	Petr		Voigt effect-based pump-probe studies of noncollinear antiferromagnet Mn ₃ NiN thin film
Bialek	Marcin		Cavity-mediated magnon-magnon coupling at 0.3 THz
Gördes	Jendrik	student	Co-evaporation of Mn _{1-x} Aux on a Nb(100) substrate capped with a pseudomorphic Au layer
Lahoubi	Mahieddine		Unusual thermal properties and field induced weak ferromagnetic phase in the exchange-frustrated antiferromagnet PrBCO at low temperature
RuĹa NO SHOW	Sergiu		Ab-initio and atomistic spin dynamics characterisation of antiferromagnetic materials Mn₂Au and CuMnAs
Dolgikh	Irina	student	Ultrafast emergence of ferromagnetism in antiferromagnetic FeRh in high magnetic fields
Ślęzak	MichaĹ		Memory of frozen and rotatable antiferromagnetic spins in epitaxial CoO(111)/Fe and NiO(111)/Fe bilayers.
Wittmann	Angela		Role of substrate clamping on anisotropy and domain structure in the canted antiferromagnet α -Fe ₂ O ₃
Grzybowski	MichaĹ Jacob		Growth and characterization of semiconductor low-dimensional structures with antiferromagnetic MnSe
Pradhan	Gajanan	student	Local magnetization reversal in FeGa magnetic nanostructures
Graczyk	Piotr		Inertial hopfion motion under magnetoelectric torque
Sala	Giacomo	student	Asynchronous current-induced switching of rare-earth and transition-metal sublattices in ferrimagnetic alloys
Gruszecki	Pawel		The influence of DMI and perpendicular magnetocrystalline anisotropy on magnetization dynamics in spin spirals and stripe domain patterns
Mangold	Maximilian	student	Ferromagnetic resonance as a spectroscopic technique for topological surface states investigation
Finizio (*)	Simone		Into the fourth dimension: time-resolved soft x-ray magnetic laminography
Unikandanunni	Vivek		Inertial spin dynamics in epitaxial cobalt films
Basini	Martina		Terahertz electric-field driven dynamical multiferroicity in paraelectric SrTiO ₃
Khatu	Nupur		Magnetization Dynamics in CoGd Induced by Transient Gratings
d'Aquino	Massimiliano		Magnetization switching in the inertial regime
Malvestuto	Marco		The MagneDyn beamline at the FERMI free electron laser

(*) postponed to Session III on Wednesday

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Poster Session II - Tuesday, Sept. 6, h.15:30

presenting author			poster title
Gubbiotti	Gianluca		Spin-wave edge and cavity modes in a moiré magnonic crystal
An	Kyongmo		Bright and dark states of two distant macrospins strongly coupled by phonons
Ngouagnia	Igor	student	Dynamic instability in high power FMR of a BiYIG nanodisk
Bhardwaj	Richa		Optically induced ultrafast magneto-dynamics in ferromagnetic alloy
Kanai	Shun		Electric-field induced collective spin dynamics in nanomagnet revealed by 30-ps single-shot measurements
Srivastava	Titiksha		Nonlinear interactions between spin-wave modes probed by parametric excitation in YIG microstructures
Szulc	Krzysztof	student	Spin-wave dynamics in the system of coupled waveguides
Cucini	Riccardo		Spin wave excitation via magnetoelastic coupling by transient grating experiments
Girardi	Davide		Three-dimensional nanoscale imaging of propagating spin waves via time-resolved X-Ray Laminography
Rickhaus	Peter		Scanning NV Magnetometry for Magnetic Memory Devices
Montoncello	Federico		Spin wave dispersion in bilayer hybrid systems composed of artificial spin ice and thin film: Brillouin light scattering measurements and simulations
Kadlec	Filip		Study of nonlinear absorption by electromagnons in multiferroic hexaferrites
Lu NO SHOW	Zhiwei	student	Influence of non-local damping on magnon properties
Wojewoda	Ondřej	NO SHOW	Observing high-k magnons with Mie-resonance-enhanced Brillouin light scattering
Metzger	Thomas	student	Propagation of nearly single cycle terahertz pulse in antiferromagnetic CoF ₂
Blank	Thomas	student	Ultrafast laser-induced dynamics in ferrimagnetic Gd/FeCo multilayers
Gareev	Timur	student	Laser-induced THz coherent dynamics of rare-earth magnetic moments in DyFeO ₃
Carrion Ruiz	Francisco	student	Spin-, time- and angle-resolved photoemission spectrometer
Laterza	Simone	student	All-optical spin injection in silicon revealed by element specific time-resolved Kerr effect
Mentink	Johan	NO SHOW	Supermagnonic propagation in 2D antiferromagnets

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Poster Session III - Wednesday, Sept. 7, h.15:30

presenting author			poster title
Perez	Lucas		In-vitro Real-Time Magnetic Recording of Neuronal Activity on Spinal Cord Slices
Vicentini	Marta	student	Simulation of in vivo tests of magnetic hyperthermia
Cuccurullo	Simone	student	Engineered magnetic plucking for frequency up-conversion in energy harvesters
Ruiz-Gomez	Sandra		Magnetization in cylindrical nanowires: the role of chirality
Mazalski	Piotr		Magnetic domains in W(dW)/Co(dCo)/Pt ultrathin epitaxial layers
Fernández González	Claudia	student	Scale-up the electrodeposition of magnetic nanowires for the application in composite bonded magnets
Jedryka	Ewa		Origins of magnetic anisotropy in Mn ₅ Ge ₃ Cx films studied by NMR
Wójcik	Marek		Magnetic interactions in Mn ₂ GaC films studied by NMR
Du	Wei	student	Effect of buffer and cap layer on the thermally stable perpendicular magnetic anisotropy in buffer/CoFeB/MgO/cap structure
Mandru	Andrada		Tuning the coexistence regime of incomplete and tubular skyrmions in thin film heterostructures
Brondin	Carlo Alberto	student	Tuning magnetic coupling via defects formation at graphene/ferromagnet interface
Varvaro	Gaspere		Flexible thin film heterostructures based on Co/Ni synthetic antiferromagnets: towards shapeable and sustainable spintronics
Bardziński	Piotr		Magnetocaloric response of quasicrystal-forming Al-Cu-Fe-B alloy improved by self-ordering of orthorhombic Fe ₂ AlB ₂ phase
Shreya	Sonal		Memory and Communication Logic (MCL) in Magnetic Tunnel Junctions
Aykin	Ahmet	student	Stable antivortex nucleation and spin-orbit torque driven dynamics
De Vita	Alessandro	student	Evidence of magnetism-induced topological protection in the antiferromagnetic topological insulator EuSn ₂ P ₂
Mook	Alexander		Topological hybrids of magnons and magnon bound pairs
Rozhansky	Igor		Topological Hall effect in ferromagnetic and antiferromagnetic chiral spin textures
Finizio	Simone		Into the fourth dimension: time-resolved soft x-ray magnetic laminography

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Poster Session IV - Thursday, Sept. 8, h.15:30

presenting author			poster title
Kozioł-Rachwał	Anna		Insight into chemical and magnetotransport properties of epitaxial α -Fe ₂ O ₃ /Pt bilayers
Wagner	Kai		Surface magnetization and antiferromagnetic domain walls in Cr ₂ O ₃
Brambilla	Alberto		Preparation of Cr ₂ O ₃ nanostructures for the application in organic antiferromagnetic spintronics
Kamba	Stanislav		THz-field-induced transient magnetization and ferroelectric polarization in quantum paraelectric KTaO ₃
Garg NO SHOW	Priyanka		Spin Hall magnetoresistance in 3D antiferromagnet insulator, Ho _{0.5} Dy _{0.5} FeO ₃ Pt heterostructure
Selvi	Ege	student	Characterization of Finite-Size Effects in Antiferromagnetic Films Using Spin Pumping Effect
Schmoranzzerová	Eva		Antiferromagnetic-like optical transition in thin YIG films as seen by quadratic magneto-optics
Sánchez-Tejerina	Luis		Antiferromagnetic THz oscillations excited by sub-picosecond structured laser pulses
Kadlec	Christelle		How THz circularly polarized light can be used to determine the mass of vortices in superconductors submitted to a magnetic field
Pancaldi	Matteo		Light and magnetic vortices: the experimental evidence of magnetic helicoidal dichroism
Leliaert	Jonathan		Thermoplasmonic nanomagnetic logic gates
Holt	Sam		Mag2exp: simulating experimental techniques from micromagnetic simulations
Stansill	Sean	student	The quantum thermodynamics of exchange stiffness
Alho	Bruno		Mean-field modelling of magnetocaloric effect of antiferromagnetic compounds
Manzin	Alessandra		Modelling design of magnetic nanomaterials for hyperthermia applications
Martín-Hernández	Rodrigo	student	Highly isolated femtosecond magnetic fields driven by azimuthally polarized laser beams in apertured nanoantennas.
Yeh	Tien-Tien		Robust phase retrieval method for broadband THz reflection spectroscopy
Jatkar	Kasturie	student	Terahertz spectroscopy of bulk InSb and SrTiO ₃ in reflection geometry
Pournaghavi	Nezhat		Transport properties in CrI ₃ -Bi ₂ Se ₃ -CrI ₃ heterostructure