

Trends in Magnetism TMAG 2022

4-9 September 2022, Venice (Italy)

Poster sessions

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

presenting author	abstract code	poster title
Nemec Petr	p-044	Voigt effect-based pump-probe studies of noncollinear antiferromagnet Mn ₃ NiN thin film
Bialek Marcin	p-095	Cavity-mediated magnon-magnon coupling at 0.3 THz
Gördes Jendrik	p-085	Co-evaporation of Mn _{1-x} Aux on a Nb(100) substrate capped with a pseudomorphic Au layer
Lahoubi Mahieddine	p-121	Unusual thermal properties and field induced weak ferromagnetic phase in the exchange-frustrated antiferromagnet PrBCO at low temperature
Ruta Sergiu	p-090	Ab-initio and atomistic spin dynamics characterisation of antiferromagnetic materials Mn ₂ Au and CuMnAs
Dolgikh Irina	p-047	Ultrafast emergence of ferromagnetism in antiferromagnetic FeRh in high magnetic fields
Ślęzak Michał	p-116	Memory of frozen and rotatable antiferromagnetic spins in epitaxial CoO(111)/Fe and NiO(111)/Fe bilayers.
Wittmann Angela	p-076	Role of substrate clamping on anisotropy and domain structure in the canted antiferromagnet α -Fe ₂ O ₃
Grzybowski Michał Jacub	p-102	Growth and characterization of semiconductor low-dimensional structures with antiferromagnetic MnSe
Pradhan Gajanan	p-157	Local magnetization reversal in FeGa magnetic nanostructures
Graczyk Piotr	p-096	Inertial hopfion motion under magnetoelectric torque
Sala Giacomo	p-113	Asynchronous current-induced switching of rare-earth and transition-metal sublattices in ferrimagnetic alloys
Gruszecki Paweł	p-055	The influence of Dzyaloshinskii-Moriya interaction and perpendicular magnetocrystalline anisotropy on magnetization dynamics in spin spirals and stripe domain patterns
Mangold Maximilian	p-078	Ferromagnetic resonance as a spectroscopic technique for topological surface states investigation
Finizio Simone	p-037	Into the fourth dimension: time-resolved soft x-ray magnetic laminography
Unikandanunni Vivek	p-073	Inertial spin dynamics in epitaxial cobalt films
Basini Martina	p-003	Terahertz electric-field driven dynamical multiferroicity in paraelectric SrTiO ₃
Khatu Nupur	p-067	Magnetization Dynamics in CoGd Induced by Transient Gratings
d'Aquino Massimiliano	p-111	Magnetization switching in the inertial regime
Malvestuto Marco	p-093	The MagneDyn beamline at the FERMI free electron laser

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

presenting author	abstract code	poster title
Gubbiotti Gianluca	p-122	Spin-wave edge and cavity modes in a moiré magnonic crystal
An Kyongmo	p-053	Bright and dark states of two distant macrospins strongly coupled by phonons
Ngouagnia Igor	p-143	Dynamic instability in high power FMR of a BiYIG nanodisk
Bhardwaj Richa	p-099	Optically induced ultrafast magneto-dynamics in ferromagnetic alloy
Kanai Shun	p-124	Electric-field induced collective spin dynamics in nanomagnet revealed by 30-ps single-shot measurements
Srivastava Titiksha	p-142	Nonlinear interactions between spin-wave modes probed by parametric excitation in YIG microstructures

Szulc	Krzysztof	p-039	Spin-wave dynamics in the system of coupled waveguides
Cucini	Riccardo	p-008	Spin wave excitation via magnetoelastic coupling by transient grating experiments
Girardi	Davide	p-011	Three-dimensional nanoscale imaging of propagating spin waves via time-resolved X-Ray Laminography
Rickhaus	Peter	p-098	Scanning NV Magnetometry for Magnetic Memory Devices
Montoncello	Federico	p-123	Spin wave dispersion in bilayer hybrid systems composed of artificial spin ice and thin film: Brillouin light scattering measurements and simulations
Kadlec	Filip	p-120	Study of nonlinear absorption by electromagnons in multiferroic hexaferrites
Lu	Zhiwei	p-139	Influence of non-local damping on magnon properties
Wojewoda	Ondřej	p-138	Observing high-k magnons with Mie-resonance-enhanced Brillouin light scattering
Metzger	Thomas	p-084	Propagation of nearly single cycle terahertz pulse in antiferromagnetic CoF ₂
Blank	Thomas	p-043	Ultrafast laser-induced dynamics in ferrimagnetic Gd/FeCo multilayers
Gareev	Timur	p-083	Laser-induced THz coherent dynamics of rare-earth magnetic moments in DyFeO ₃
Carrion Ruiz	Francisco	p-081	Spin-, time- and angle-resolved photoemission spectrometer
Laterza	Simone	p-082	All-optical spin injection in silicon revealed by element specific time-resolved Kerr effect
Mentink	Johan	p-103	Supermagnonic propagation in 2D antiferromagnets

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

presenting author		abstract code	poster title
Perez	Lucas	p-061	In-vitro Real-Time Magnetic Recording of Neuronal Activity on Spinal Cord Slices
Vicentini	Marta	p-134	Simulation of in vivo tests of magnetic hyperthermia
Cuccurullo	Simone	p-154	Engineered magnetic plucking for frequency up-conversion in energy harvesters
Ruiz-Gomez	Sandra	p-016	Magnetization in cylindrical nanowires: the role of chirality
Mazalski	Piotr	p-091	Magnetic domains in W(dW)/Co(dCo)/Pt ultrathin epitaxial layers
Fernández González	Claudia	p-066	Scale-up the electrodeposition of magnetic nanowires for the application in composite bonded magnets
Jedryka	Ewa	p-027	Origins of magnetic anisotropy in Mn ₅ Ge ₃ Cx films studied by NMR
Wójcik	Marek	p-028	Magnetic interactions in Mn ₂ GaC films studied by NMR
Du	Wei	p-034	Effect of buffer and cap layer on the thermally stable perpendicular magnetic anisotropy in buffer/CoFeB/MgO/cap structure
Mandru	Andrada	p-114	Tuning the coexistence regime of incomplete and tubular skyrmions in thin film heterostructures
Brondin	Carlo Alberto	p-101	Tuning magnetic coupling via defects formation at graphene/ferromagnet interface
Varvaro	Gaspere	p-074	Flexible thin film heterostructures based on Co/Ni synthetic antiferromagnets: towards shapeable and sustainable spintronics
Bardziński	Piotr	p-030	Magnetocaloric response of quasicrystal-forming Al-Cu-Fe-B alloy improved by self-ordering of orthorhombic Fe ₂ AlB ₂ phase
Shreya	Sonal	p-147	Memory and Communication Logic (MCL) in Magnetic Tunnel Junctions
Aykin	Ahmet	p-048	Stable antivortex nucleation and spin-orbit torque driven dynamics
De Vita	Alessandro	p-060	Evidence of magnetism-induced topological protection in the antiferromagnetic topological insulator EuSn ₂ P ₂
Mook	Alexander	p-089	Topological hybrids of magnons and magnon bound pairs
Rozhansky	Igor	p-100	Topological Hall effect in ferromagnetic and antiferromagnetic chiral spin textures

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

presenting author		abstract code	poster title
Koziol-Rachwał	Anna	p-117	Insight into chemical and magnetotransport properties of epitaxial α -Fe ₂ O ₃ /Pt bilayers
Wagner	Kai	p-144	Surface magnetization and antiferromagnetic domain walls in Cr ₂ O ₃
Brambilla	Alberto	p-086	Preparation of Cr ₂ O ₃ nanostructures for the application in organic antiferromagnetic spintronics
Kamba	Stanislav	p-054	THz-field-induced transient magnetization and ferroelectric polarization in quantum paraelectric KTaO ₃
Garg	Priyanka	p-129	Spin Hall magnetoresistance in 3D antiferromagnet insulator, Ho _{0.5} Dy _{0.5} FeO ₃ Pt heterostructure
Selvi	Ege	p-105	Characterization of Finite-Size Effects in Antiferromagnetic Films Using Spin Pumping Effect
Schmoranzarová	Eva	p-079	Antiferromagnetic-like optical transition in thin YIG films as seen by quadratic magneto-optics
Sánchez-Tejerina	Luis	p-056	Antiferromagnetic THz oscillations excited by sub-picosecond structured laser pulses
Kadlec	Christelle	p-119	How THz circularly polarized light can be used to determine the mass of vortices in superconductors submitted to a magnetic field
Pancaldi	Matteo	p-057	Light and magnetic vortices: the experimental evidence of magnetic helicoidal dichroism
Leliaert	Jonathan	p-065	Thermoplasmonic nanomagnetic logic gates
Holt	Sam	p-131	Mag2exp: simulating experimental techniques from micromagnetic simulations
Stansill	Sean	p-040	The quantum thermodynamics of exchange stiffness
Alho	Bruno	p-109	Mean-field modelling of magnetocaloric effect of antiferromagnetic compounds
Manzin	Alessandra	p-136	Modelling design of magnetic nanomaterials for hyperthermia applications
Martín-Hernández	Rodrigo	p-051	Highly isolated femtosecond magnetic fields driven by azimuthally polarized laser beams in apertured nanoantennas.
Yeh	Tien-Tien	p-007	Robust phase retrieval method for broadband THz reflection spectroscopy
Jatkar	Kasturie	p-009	Terahertz spectroscopy of bulk InSb and SrTiO ₃ in reflection geometry
Pournaghavi	Nezhat	p-164	Transport properties in CrI ₃ -Bi ₂ Se ₃ -CrI ₃ heterostructure