

18th Czech and Slovak Conference on Magnetism

Tuesday, July 8, 2025

POSTER Session: PART 1 (Topics 2, 3, 5 and 9) (5:30 PM - 7:00 PM)

-Conveners: Adriana Zelenáková; Pavol Sovák

[id] title	presenter	board
[90] Influence of the Distribution of Electroinsulator on the Magnetic Properties of NiFeMo Based Soft Magnetic Composites	Dr FÜZER, Ján	
[83] Magnetism in $\text{GdMn}_{1-x}\text{Ti}_x\text{O}_3$ ($0.0 \leq x \leq 0.1$) Multiferroic System	ASHRAF, Muhammad Faisal	
[159] Multiferroic BaErFeO_4 : Mössbauer Spectroscopy Study	KOHOUT, Jaroslav	
[8] Shape Anisotropy Effect on the Magnetocaloric Performance of Heusler $\text{Ni}_{53}\text{Fe}_{20}\text{Ga}_{27}$ Microwire	HENNEL, Miroslav	
[165] In-situ XRD Observation of Stress Induced Anisotropy in Vitroperm Fe_{800}	Ms KAUR, Ravneet	
[21] Finite Elements-Based Method of Modeling the Eddy-Current Losses in Ribbon Ring-Shaped Cores With a Gap	Prof. SZEWCZYK, Roman	
[121] Ligand Exchange Effect on Stabilization and Magnetic Properties of Cobalt-Ferrite Nanoparticles	Dr HRUBOVČÁK, Pavol	
[174] Fe_3O_4 Hollow Nanostructures: A New Playground for Curvilinear Magnetism	PEDDIS, Davide	
[65] The Influence of Ni^{2+} Ion Addition on Thermal and Magnetic Properties of $\text{CaO-Al}_2\text{O}_3\text{-SiO}_2$ Glasses	MAJEROVÁ, Melinda	
[163] Magnetization as Probe for Purity of Schwertmannite	PILLONI, Cristian	
[160] Correlation of the Structural and Magnetic Morphology of Nanoparticles	Dr ZÁKUTNÁ, Dominika	
[136] Radiolabeling of Functionalized Magnetic Nanoparticles for Potential Theranostic Use	Dr ZÁVIŠOVÁ, Vlasta	
[39] Polyvinyl Alcohol-Coated Magnetic Nanoparticles for Biomedical Applications	Ms PILLÁROVÁ, Paula	
[191] MI-sensing Properties of CoSiB Amorphous Wires	Prof. MITROVIC, Nebojša	
[55] Stability and Magnetic Ordering Near the Antiphase Boundary in Ni_2MnGa	MÁCA, František	
[154] Asymmetrical GMI Effect in Cobalt Base Microwires	Dr KRAVČÁK, Jozef	
[47] Oscillations of a Single Domain Wall in Alternating Magnetic Field in Bistable Microwire	Dr ONUFER, Jozef	
[82] Soft Magnetic Properties of FeCoB/Cu Nanocrystalline Ribbons	Dr BUTVINOVÁ, Beata	
[23] Non-Ohmic Behavior in $[\text{Ni}_{80}\text{Fe}_{20}/\text{HfO}_2]_n$ Discontinuous Multilayers	Dr KOMANICKÝ, Vladimír	
[156] Magnetic Nanoparticles Integrated Into SiO_2 Hydrogel: Synthesis, Properties, and Applications	Dr SZŮCSOVÁ, Jaroslava	
[120] Highly Anisotropic Magnetic CoFe_2O_4 Nanoparticles in Various Shapes as Magneto-Thermal Agents	Dr NAGY, Ľuboš	

[112] Tailoring the Matteucci Effect in Amorphous Glass-Coated Microwires by Thermal Annealing	Dr RICHTER, Kornel	
[147] Electrophysical Properties of Magnetic Composites With Ferrites and Nanocarbon	Dr MAZURENKO, Yuliia	
[137] N-Acetylcysteine Designed Magnetic Nanoparticles for MRI	Dr KONERACKA, Martina	
[128] Mesoporous Silica Coated Magnetic Nanoparticles for Targeted Delivery of Antithrombotic Drugs	Dr BEŇOVÁ, Eva	
[94] Investigations of Magnetic Properties of Nanoribbon Arrays Based on Co and Cu	Dr VOROBIOV, Serhii	
[130] Evolution of Nano-Precipitates and Their Effect on Microstructural Design and Magnetic Properties of Electrical Steel	Dr PETRYSHYNETS, Ivan	
[69] Magnetic Influence on Thermoelectric Properties of Fe₂TiAl Heusler Alloy	NALEVANKO, Samuel	
[45] Multifunctional Magnetic Nanomaterials for Biomedical Applications	JEDINÁK, Valentín	
[41] Comparative Characterization of Structural, Magnetic Properties, and Heating Efficiency of Single- and Multicore Iron Oxide Nanoparticles	Dr KHMARA, Iryna	
[145] Temperature-Dependent Enhanced Gyrator-Capacitor SPICE Model for Ferrite-Core Inductors With High Permeability	GAZDA, Piotr	
[115] Directional Relaxation of Stress-Induced Anisotropy of Crystal Lattice in VITROPERM-800	Dr GIRMAN, Vladimír	
[181] Novel One-Pot Synthesis of Strongly Exchange-Coupled FeCo-CoFe₂O₄ Nanocomposites With Tailored Magnetic Properties	HUSNAIN, Hammad	
[188] Measurement of Pressure and Temperature of the Automobile's Brake System using a Contactless Sensor	Mr ONUFER, Samuel	
[76] Oxygen-Controlled Magnetic and Magnetocaloric Behavior in NdMnO_{3+δ}	KHAN, Izaz	
[190] Analysis of the Components of Energy Losses Fe-based Compacted Powder Material	PROVÁZKOVÁ, Livia	
[33] Tuning of Nodal Line States via Chemical Alloying in Co₂CrX (X = Ga, Ge) Heusler Compounds for a Large Anomalous Hall Effect	DSOUZA, Sunil Wilfred	
[78] The Effect of Chromium of the Temperature Dependence of the Switching Field in Iron-Molybdenum-Boron Stage Nano Crystalline Microwire	DURANKA, Peter	
[51] Switching Field Fluctuations in Head-to-Head and Tail-to-Tail Domain Walls in Amorphous Microwires Under Mechanical Stress	Mr ELIÁŠ, Martin	
[1] Grain Size Determination using XRD Line Profiles via Iterative Convolution	Mr DUBECKÝ, Peter	
[168] High Temperature Measurement Using Glass Coated Bistable MicroWires	FINDRIKOVA, Simona	
[9] Investigation of Structure-Property Relationships in Fe-Based Nanocrystalline Alloy	Dr YUDINA, Daria	
[95] Investigation of Structural Heterogeneity in Soft Magnetic Materials Formed by Hot Powder Compaction	Prof. KOLLÁR, Peter	
[142] Simulation and Optimization of the Preparation Process of Soft Magnetic Materials	ADAMKO, Justín	
[38] Dual-Point Temperature Sensing in Single Glass-Coated Microwire	Dr GALDUN, Ladislav	
[131] Magnetic Nanoparticles With Different Shapes for Magnetic Separation of DNA/RNA	BARUTIAK, Michael	

[151] Investigating Magnetic Properties of Octapod-Shaped Magnetic Nanoparticles via AC Susceptibility	FABRICIOVÁ, Žaneta	
[170] Magnetic Morphology of Multishell Nanoparticles	HRICOV, Štefan	

Thursday, July 10, 2025

POSTER Session: PART 2 (Topics 1, 4, 6, 7, 8 and 10) (5:30 PM - 7:00 PM)

-Conveners: Adriana Zelenáková; Pavol Sovák

[id]	title	presenter	board
[48]	Manifestations of Bound Magnons and Cluster-Based Haldane States in Magnetic Behavior of a Spin-1 Heisenberg Diamond Chain	ZOSHKI, Azam	
[96]	Fast Cooling of the Hexanuclear Fe^{3+} Cluster	ARIAN ZAD, Hamid	
[93]	Magnetic Field-Assisted Electrodeposition of $\text{Ni}_{30}\text{Pt}_{70}$ Mesoscopic Wires	STROPKAI, Branislav	
[92]	Magnetic Properties of $\text{Cu}(\text{en})(\text{sal})\text{Cl}$ - A Quasi-Two-Dimensional $S=1/2$ Ferromagnet on a Square Lattice	KOZIN, Illia	
[50]	Magneto-Raman and Magneto-Photoluminescence Spectroscopies on van der Waals Materials	Prof. KALBÁČOVÁ VEJPRAVOVÁ, Jana	
[133]	Quantum Heisenberg Isotropic Ferromagnet With a Magnetoelastic Interaction	Mr MORADI, Majid	
[109]	Thermal Phase Transitions in a Deformable Quantum Spin- $1/2$ XX Chain in a Transverse Magnetic Field	SIVÝ, Dávid	
[103]	Memory Effects of a Static Magnetic Field on Brownian Motion and the Absence of Classical Magnetism	Prof. LISÝ, Vladimír	
[31]	Guided Exchange-Dipole Spin Wave in Monolayer CrSBr	WANG, Daowei	
[20]	Magnons in Altermagnets: Group-Theoretical Aspects	TUREK, Ilja	
[63]	Unveiling the Degeneracy of Bound-Magnon States from Magnetic and Magnetocaloric Properties of the Spin- $1/2$ Heisenberg Octahedral Chain	NEMCIK, Michal	
[102]	Effect of Magnetic Field on Neutral Bath Containing Charged Brownian Particles	TÓTHOVÁ, Jana	
[5]	Localized Creation of Skyrmion Bubbles in $\text{Fe}_{30}\text{GaTe}_{20}$ by Conductive Atomic Force Microscopy	LIN, Wen-Chin	
[37]	Development of Fractional Magnetization Plateaus in Metallic Quasi-2D Dimensional Shastry-Sutherland System TmB_4 at Various Orientations and in High Magnetic Fields	Dr ORENDÁČ, Matúš	
[111]	Magnetization Dynamics of Iron Garnet Thin Films and Heterostructures	BHATTI, Imtiaz	
[146]	Weak Ferromagnetism in Two-Dimensional Transition Metal Tetrafluoride Altermagnets	Dr GMITRA, Martin	
[46]	Effects of Single Crystal and Dipolar Anisotropy on Antiferromagnetic Order in the Frustrated fcc Magnet HoB_{12}	Dr SIEMENSMEYER, Konrad	
[53]	High-Entropy Cylindrite ($\text{FeSb}_{20}\text{Pb}_{30}\text{Sn}_{40}$) S_{14} - Type Compounds: Mechanochemical Synthesis and Magnetic Properties	Dr BALÁŽ, Peter	
[66]	SQUID Magnetometry Applied to the Study of Surface Properties of Titanium Alloy Biomedical Implants	DVURECENSKIJ, Andrej	
[101]	Spin-Crossover in Cu and Fe-Based Metallophthalocyanines: XAS and XMCD Investigations	Dr HOLUB, Mariia	
[116]	Lanthanides MOFs Containing MTA^{4-} in Magnetism	Dr KIRÁLY, Nikolas	
[153]	Magnetic Materials Formed With Additive Techniques	SIEDLECKI, Krzysztof	

[91] The Role of Local Vibrational Modes in Magnetic Relaxation of $\text{[Gd(H}_2\text{SO)}_6\text{Cl}_2\text{]Cl}$	TITIKOV, Hryhorii	
[77] Probing Dynamical Correlations, Structure Factors, and Entanglement in a Spin- $1/2$ Heisenberg Tetrahedron	SHAHHOSSEINI SHAHRABADI, Elham	
[70] Magnetic Field Induced Phase Transitions in Dimerized Quantum Magnets $\text{Cu(en)}_2\text{SO}_4$ and $\text{Cu(en)}_2\text{CrO}_4$	Dr ORENDÁČOVÁ, Alžbeta	
[134] Two-Gap Superconductivity in the Non-Centrosymmetric $\text{La}_{1-x}\text{Se}_x$ Compound	KOŠUTH, Filip	
[84] Experimental Study of Magnetostructure Correlations in $\text{Cu}(\text{SCN})_2$ System with Spin $S = 1/2$	Dr TARASENKO, Róbert	
[44] Magnetic Properties of Heterometallic Ni_2M_2 ($M = \text{Mn, Co}$) Cubane Complexes	ČIŽMÁR, Erik	
[88] Investigation of the Physical Properties of ZIF-67 and its Diamagnetic Counterpart ZIF-8	KOTVYTSKA, Liliia	
[98] Consolidated Fe/FeSi Mixtures for Applications Requiring Increased Frequency Stability of Magnetic Properties	RAVI, Soundariya	
[74] Effect of Uniaxial Single-Ion Anisotropy on Stability of Quantum and Thermal Entanglement in a Mixed-Spin Heisenberg Trimer	Dr VARGOVA, Hana	
[43] Effect of Different Ratio of Eu_{211} Phase on the Superconducting Properties of EuBCO Bulk Superconductor	Dr VOJTKOVA, Liudmila	
[108] $\text{Eu}_2\text{Pd}_3\text{Sn}_5$ - Structural and Physical Properties of a Novel Compound	Dr ČURLÍK, Ivan	
[71] Structural and Magnetic Properties of a New Eu-Pd-Sn Compound: $\text{Eu}_3\text{Pd}_4\text{Sn}_{13}$	Ms TRABELSI, Imen	
[189] Hardness Anisotropy of HfC and TaC Ceramic Grains for Magnetic Applications	RAVIKUMAR, Yogesh Kumar	
[10] Polarization-Resolved Position-Sensitive CrSBr Photodetector	KALBAC, Martin	
[12] Influence of Hydrostatic and Uniaxial Pressure on the Anisotropic Quantum Magnet TmB_4	Dr GABÁNI, Slavomír	
[114] Magnetic Properties of the $\text{Dy}_x\text{Y}_{1-x}(\text{PO}_3)_3$ Glasses	Dr TKÁČ, Vladimír	
[85] Coexistence of Quantum Tunnelling and Anomalous Raman Relaxation in $\{\text{Ce}_2(\text{SO}_4)_3(\text{H}_2\text{O})_2\} \cdot n\text{H}_2\text{O}$	Prof. ORENDÁČ, Martin	
[29] Lanthanum-Substituted Nickel-Zinc Ferrites Used as Fillers for Composites	ŠOKA, Martin	
[36] Study of Superconductivity in High-Entropy Alloy Films – Influence of Various Parameters	Dr PRISTÁŠ, Gabriel	
[175] Magnetic Properties of Layered EuOCl and EuOBr Materials: Investigations and Mathematical Simulation	BUNDA, Viktor	
[123] Scalable Effective Models for Complex Superconducting Nanodevices	BOBOK, Daniel	
[105] Upper Critical Fields Obtained Within Different Approaches for Optimally-Doped $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ Thin Films	PETRENKO, Yevhen	
[42] Bistable Microwire Usage as the Sensor for Single Chip Applications	Dr JACKO, Patrik	
[73] Superconducting Properties of GdBCO Bulk Superconductors Prepared by SDMG Process	Dr VOLOCHOVÁ, Daniela	
[97] Magnetic Tricriticality in Antiferromagnets	Prof. SECHOVSKÝ, Vladimír	

[141] Extraction of the Density of States and the Gap Function on a Temperature Smearing Scale From the Tunneling Conductance Data	GELENEKYOVÁ, Lucia	
[7] Superconductivity in (NbMoTaW)-C-N Carbonitride Films	Dr FLACHBART, Karol	
[192] Exploring Altermagnetism in MnTe	DAL DIN, Alfred	