



X-LAW3M

LATIN AMERICAN WORKSHOP
ON MAGNETISM, MAGNETIC
MATERIALS AND THEIR
APPLICATIONS

POSTERS SESSIONS

POSTER SESSION A - MONDAY APRIL 8TH HALL

- 02- Magnetism and superconductivity
- 06- Magnetic nanostructures, surfaces and interfaces

POSTER SESSION B - TUESDAY APRIL 9TH HALL

- 01- Electronic structure and correlation effects in magnetic systems
- 03- Magneto-transport, spin electronics and magnonic crystals
- 04- Organic & Carbon based spintronics
- 05- Magnetic shape memory, magnetoelastic and multifunctional materials
- 07 - Micromagnetics, magnetization processes and magnetization dynamics
- 08 - Magnetism in metals, alloys and intermetallics
- 09- Diluted Magnetic semiconductors
- 11- Soft magnetic materials and related applications
- 12 - Molecular magnetism

POSTER SESSION C - THURSDAY APRIL 11TH HALL

- 10- Magnetic oxides
- 13 - Advanced experimental techniques for magnetic materials
- 14- Magnetic materials for applications
- 15- Sensors, MEMS and magnetic devices
- 16- Modeling for applications
- 17- Biomagnetism

The size of the boards provided for poster presentations is 1.0m long x 1.2m high. Posters should be displayed from 17h15 to 19h00. An author should set up the poster at least 15 minutes before the session starts, and **MUST** be present at his/her poster for at least 1.0 hour at designated time. The conference provides a small sign designating the paper number to be posted on each board. Mounting materials will be provided.

Poster Session A - Monday April 8th Hall

02-MAGNETISM AND SUPERCONDUCTIVITY	
Ezequiel Costa Siqueira	Nonlocal transport properties via crossed Andreev reflections in a double quantum-dot system
Rosângela Menegotto Costa	Fluctuation conductivity in an $\text{YBa}_{2}\text{Cu}_{2.985}\text{Fe}_{0.015}\text{O}_{7-d}$ single crystal
Marluce Pereira Oliveira	Effect of cationic disorder on the magnetic properties of magnetic materials with spinel structure
Mariano Marziali Bermudez	Anisotropy and twin boundaries in $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)\text{As}_2$ single crystals
Carlos Lamas	Statistics of holes and nature of superfluid phases in Quantum dimer models.
Maria Danielle Rodrigues Marques	Investigation of the structural, electrical and magnetic properties of ruthenium pyrochlores $\text{Dy}_{2-x}\text{Ce}_x\text{Ru}_{20}7$
Juan Pablo Badilla Orozco	Ac susceptibility and dc magnetization of thin film-based Nb/Ni/Nb proximity structures
M.G. Rodriguez	Sulfur and Selenium substitution of Tellurium in FeTe: structure and magnetism influence on superconductivity
Ivan Supelano Garcia	MAGNETIC BEHAVIOR STUDY OF $\text{CaMn}_{1-x}\text{Mo}_x\text{O}_3$ ($x=0.08, 0.10, 0.12$) SYSTEM
Daniel Reinaldo Cornejo	Magnetization First-Order-Reversal-Curves analysis of superconducting Niobium thin films
Oscar Arnache Olmos	Magnetic and Mossbauer study of $\text{LaFeO}_{3-x}\text{N}_x$ Oxinitride
Karen Lizeth Salcedo Rodríguez	Magnetic properties of zn-ferrites obtained from multilayer film deposited by sputtering.
Marlon Luiz Hneda	Processing and characterization of polycrystalline $\text{YBa}_{2}\text{Cu}_{2.985}\text{Fe}_{0.015}\text{O}_{7-\delta}$ samples with different degrees of oxygenation
Claudio Chilotte	Low temperature vortex lattice mobility in superconducting Nb films containing submicrometric square and rectangular arrays of magnetic dots
Ivan Camilo Zarate Barrero	Variation of magnetism XB2 Compounds ($X=\text{Tb}, \text{Dy}, \text{Ho}, \text{Er}, \text{Tm}, \text{Yb}$), due the increasing atomic number Z_x of the element X
Y.A. Rojas Martínez	Influence of growth conditions on the magnetic properties of thin films grown by sputtering DC $\text{Tb}_{0.253}\text{Fe}_{0.747}$
Y.A. Rojas Martínez	Correlation between milling time and magnetic and structural properties of $\text{Tb}_{0.257-x}\text{Nd}_x\text{Fe}_{0.743}$ alloys mechanically alloyed, with ($x = 0.128$)
Gabriel Ricardo Gómez Eslava	Effect of large cationic size substitution on the magnetic properties of phase separated manganites
Gustavo Braga Alcantara	Magnetic behavior of conjugated polymer nanostructures
Nilmar Silva Camilo	X-ray absorption studies and f-level occupancy in the series of heavy fermions $\text{Ce}_2\text{Rh}(1-x)\text{Ir}_x\text{In}_8$.
José Andres Matutes Aquino	Lower critical fields in a $\text{FeSe}_{0.5}\text{Te}_{0.5}$ single crystal obtained by the Bridgman method
Maria Eugenia Botello zubiato	Study of $\text{FeSe}_{0.5}\text{Te}_{0.5}$ thin films fabricated by RF magnetron sputtering
C.A. Parra Vargas	Magnetic characterization superconductor system $\text{YBa}_2\text{Cu}_{3-x}\text{Fe}_x\text{O}_{7-\delta}$
D. Martinez Buitrago	Magnetic and structural behaviour system $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Mn}_{1-x}\text{Ti}_x\text{O}_3$ ($X=0.4, 0.5 \text{ Y } 0.6$)

Poster Session A - Monday April 8th Hall

06- MAGNETO NANOSTRUCTURES, SURFACES AND INTERFACES

Thiago T. Gurgel	Magnetization properties study of ZnCr ₂ O ₄ spinel normal
FERNANDA ANTUNES FABIAN	Synthesis and characterization of systems LaMTO3 (MT = Fe, Cr and Mn) obtained by a sucrose-based route
Rodrigo José da Silva Lima	Controlling the magnetic properties in α -Fe ₂ O ₃ nanoparticles
Daniela Alburquenque Muñoz	Study of nanostructured materials as cathodes in lithium batteries
Lizbet León Félix	Magnetic properties of gold coated Fe ₃ O ₄ nanoparticles
Juliana M. Morbec	Role of vacancies in the magnetic and electronic properties of SiC nanoribbons: an ab initio study
Ramos, Carlos A.	Reorientation of lyotropic liquid crystals doped with magnetic nanoparticles: magnetization and ferromagnetic resonance evidence.
Gabriel C. Lavorato	Magnetic properties of ZnO-core/CoFe ₂ O ₄ -shell nanoparticles
Roberto Franco P	Thermoelectric transport properties of the double quantum dot: U finite atomic approach for the Anderson model
Flavia M. Berho	Enhancement of remanence ratio and coercivity in nanostructured CoFe ₂ O ₄ - poly(aniline) composites
Paula Soledad Antonel	Magnetic and conducting properties of composites of conducting polymers and ferrite nanoparticles
Natalia I. Cuello	Structural and Magnetic Properties of Co Modified MCM-41 by Wet Impregnation
Di Napoli Solange	Magnetism- and impurity-assisted chain creation in Ir and Pt break junctions
Diego Muraca	One step chemical synthesis of Ag-Fe ₃ O ₄ heterodimer nanoparticles: Optical, structure and magnetic properties.
Alejandro Pereira	Tailoring magnetic anisotropy in Co _{100-x} Ni _x nanowire array
Juan Luis Palma	Magnetic reversal modes in dome-like nanostructures
Josué Neroti Rigue	Study of magnetic anisotropy and rotational hysteresis in exchange bias systems
Rodolfo Gallardo	Theoretical study on the ferromagnetic resonance response in periodically perturbed films
Betiana Noelia Pianciola	Surface effects in cobalt ferrite (CoFe ₂ O ₄) nanoparticles as a function of size
Silvana Stewart	Effect of coating and dispersion on the interparticle magnetic interactions between 3 nm γ -Fe ₂ O ₃
Eduardo Lopez Molina	Microstructure and magnetic properties in Vitrovac/Au/Vitrovac films
Gisela A. Bocan	Monte Carlo simulation of core-shell (antiferromagnetic -- ferromagnetic) nanoparticles
JORGE LUIZ DA SILVA FILHO	Synthesis, Structural and Magnetic Characterization of α -Fe ₂ O ₃ @Ag Nanoparticles
Noemi Raquel Checca Huaman	Effect of buffer layer thickness on coercivity and magnetization of ultrathin cobalt films
Marcio Solino Pessoa	Magnetic anisotropy of epitaxially grown Fe/Mn/Co trilayers

Poster Session A - Monday April 8th Hall

06- MAGNETO NANOSTRUCTURES, SURFACES AND INTERFACES	
Elena Konstantinova	Some magnetic properties of the different nano-disks obtained by Monte Carlo method
Roberto Lavin	Magnetic properties of antidot systems with different sizes
Enio Lima Junior	Diagrams of Mechanisms for Heating Generation in a ferrofluid in the presence of \textit{ac} magnetic field
Cristiano Meneses	Large surface anisotropies in ultrathin $\text{Ni}_{0.90}(\text{Fe,Cr})_{0.10}\text{O}$ nanoparticles
Barrón-López, J. F.	Synthesis and characterization of yttrium iron garnet (YIG) films obtained by spin-coating deposition
Paula G. Bercoff	Low-dimensional magnetic systems in nanopore arrays
Carlos William Sánchez	Growth and physical properties of Mn doped ZnO thin films
Claribel Dominguez Ordonez	APPROACH TO EXCHANGE BIAS EFFECT IN $\text{La}_{2/3}\text{Ca}_{1/3}\text{MnO}_3/\text{BiFeO}_3$ AND $\text{BiFeO}_3/\text{La}_{2/3}\text{Ca}_{1/3}\text{MnO}_3$ BILAYERS
MERCEDES DIAZ LAGOS	Influence of inter-particle interactions on the magnetic behavior of cobalt nanoparticles embedded in gold and vanadium-gold systems
Lima, R. J. S.	Controlling the magnetic properties in Fe_2O_3 nanorods obtained by sucrose
María Soledad Viqueira	Hysteresis properties of hexagonal arrays of FePd nanowires
José Darío Agudelo Giraldo	Monte Carlo Simulation of Single-domain Grains Structure in FM films(1)
Jose Trinidad Elizalde Galindo	On the temperature dependence of exchange coupling for $\text{Sm}_{0.5}\text{Y}_{0.5}\text{Co}_{0.5}$ nanopowders
carlos Ivan Rodriguez Rodriguez	Temperature effect on exchange and dipolar magnetic interactions for $\text{SmCo}_{0.5}/\text{Fe}_{65}\text{Co}_{35}/\text{SmCo}_{0.5}$ thin films
Daniel Amancio Duarte	Surface Anisotropy in Hexagonal Arrays of Ferromagnetic Nanowires
Verônica C. S. Diniz	INFLUENCE OF MICROSTRUCTURE ON PROPERTIES OF MAGNETIC FERRITES $\text{Ni}_{0,5}\text{Zn}_{0,5}\text{Fe}_2\text{O}_4$ SINTERED BY MICROWAVE ENERGY
Joelda dantas	Evaluation of the Morphology and Magnetism in doped NiZn Nanoferrites of Copper
Patricia Costa Fernandes Menezes	EVALUATION OF MODIFICATION OF NICKEL FERRITE IN POLYMER COMPOSITE
Lima, R. J. S.	Doping Effect on the Magnetic Properties in $\text{Co}_{0.95}\text{TM}_{0.05}$ (Fe , Cr and Mn) Nanoparticles
Gloria Campillo	Grain Size Reduction Effect on Structural and Magnetic Properties in $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ ($x = 0.3$ y 0.4) by Mechanical Ball Milling
Ana María Schönhöbel	Monte Carlo simulation of magnetic properties of two "nano-peaches" with internal Ising and long-range dipolar interactions
JAIME ANDRES PEREZ TABORDA	Study of effect of deposition temperature of Surface Acoustic Wave devices on Aluminum Nitride thin films obtained by Pulsed Laser Deposition
Sousa, M. A.	Exchange-bias and antiferromagnetic coupling in NiFe/FeMn/Co trilayers

Poster Session A - Monday April 8th Hall

06- MAGNETO NANOSTRUCTURES, SURFACES AND INTERFACES	
Mariana Weissmann	Electronic and magnetic properties of iron filled carbon nanotubes
Fabio D. Saccone	Magnetic coupling in multilayered exchange-spring films
Cicero Rafael Cena	Copper Ferrite thin films prepared through polymeric precursor method
Romina Ailin Landa	Synthesis and properties of bifunctional Fe ₃ O ₄ /Ag nanoparticles
Francisco Güller	Magnetic order in NbS ₂ nanoribbons
Miguel José Espitia Rico	Surface magnetism on (0001)GaN due to the adsorption of Carbon atoms
Gutiérrez, M.P	Magnetic and Optical Properties of ZnS:Mn Nanoparticles
Carlos Cosio Castañeda	A novel one-step synthesis and characterization of very small maghemite nanoparticles
César Leandro Londoño Calderón	Preparation and characterization of magnetic nanowires based on iron oxide
Leandro M Socolovsky	Interparticle Magnetic Interactions in Grafted Maghemite Nanoparticles
Javier Lohr	Surface and grain boundary effects on the electric and magnetic properties of La _{1/2} Sr _{1/2} CoO ₃ nanoparticles.
Diego Saldanha da Rosa	Anisotropic magnetoresistance in NiFe / IrMn and NiFe / FeMn exchange-biased systems.
Oscar Moscoso Londoño	The Effect of Coated-Fe ₃ O ₄ Nanoparticles on Magnetic Properties of Ferrogels Produced by Diffusion Route
Mirta Gladis Furlani	Magnetic behavior of Mn, Al doped ZnO thin films obtained by PLD
Tatiana Santos de Araujo Batista	A magnetic Study in Fe doped β -Tricalcium phosphate nanoparticles
Juan Hernández-Rosas	Magnetic domains interactions in Magnetite Nanoparticles as a function of particle size
Marcus Carrião dos Santos	Mass Magnetophoretic Experiment Applied to the Separation of Biocompatible Magnetic Nanoparticles with Potential for Magnetic Hyperthermia
Bianchi Ana Elisa	Analysis of magnetic irreversibility at room temperature in CuO nanostructures.
Jorge Luis Lopez Aguilar	Synthesis and characterization of Fe ₃ O ₄ magnetic fluid using Copaifera langsdorffii oil and Tween 80 as surfactants
Jorge Luis Lopez Aguilar	Study of magnetic and structural properties of magnetic fluids based on Fe ₃ O ₄ and MnFe ₂ O ₄ nanoparticles coated with a layer of Mn ₃ O ₄
Pedro Mendoza Zélis	Study on magnetic properties of ferrogels
Camila Jéssica Letti	Growth and oxidation study of layer-by-layer films of magnetite and polymer
Marangolo Massimiliano	Orthorhombic FeMnAs thin films epitaxied on MnAs/GaAs(001) : structural and magnetic properties.
Leticia Granja	Magnetic oxides nano-structures supported by simple oxides mesoporous thin films skeletons
Rodríguez Torres, C.	Room temperature A and B-site magnetic contributions in ferrimagnetic ZnFe ₂ O ₄ thin film and nanoparticles studied using XMCD
Arciniegas, L.	Characterization of a ferrogel of iron oxide magnetic nanoparticles in a PVA network

Poster Session A - Monday April 8th Hall

06- MAGNETO NANOSTRUCTURES, SURFACES AND INTERFACES	
Mendoza Zelis, P.	Element-specific XMCD hysteresis loops in iron oxides nanoparticles and thin films
Fabian Sarmiento	Structural phase transition in Mn-doped Gallium Nitride explored by first principles calculations
Singh, J.	Effect of MgO thickness on magnetic and dielectric properties of Ta/CoFeB/MgO(x) structures
Burgos, E.	Magnetization of CoCr films in antidots arrangement: dependence on the discontinuity of the film.
C. Helman	Arsenic-bridged antiferromagnetic superexchange interactions in ultrathin Fe films on MnAs
Albornoz Cecilia	Comparative study of magnetite and PEI-magnetite nanoparticles obtained by different methods: Conventional and microwave assisted homogeneous co-precipitation
Cortes, D.	Influence of the Dzyaloshinskii-Moriya interaction on the spin-wave spectra of thin films
Ana María Llois	Transition metal chains adsorbed on Cu(001): magnetic interaction dependence on decoupling layer width
L. Campos Miranda	Magnetic Properties in synthesis of nanocomposites Mechanochemistry.
L. M. Cuartas	Magnetic and structural characterization of trilayers system $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ in antiferromagnetic and ferromagnetic phases

Poster Session B - Tuesday April 9th Hall

01- ELECTRONIC STRUCTURE AND CORRELATION EFFECTS IN MAGNETIC SYSTEMS	
Edwin Ramos Rodríguez	THERMOELECTRIC TRANSPORT PROPERTIES THROUGH A SINGLE WALL ZIG-ZAG CARBON NANOTUBE COUPLED TO A QUANTUM DOT: U FINITE ATOMIC APPROACH FOR THE SINGLE IMPURITY ANDERSON MODEL TREATMENT
Roura-Bas Pablo	Non-Fermi liquid behaviour in transport through Co doped Au chains
Figueira, M S	The atomic approach for the Coqblin-Schrieffer model
wilmer saldarriaga Agudelo	Magnetic resistivity and critical Behavior in epitaxial SrRuO ₃ thin films
Marlene González Montiel	Mn(L) ₂ [Ni(CN) ₄] with L = Pyridine, Br-Pyridine, I-Pyridine, Pyridazine and Pyrimidine: Synthesis, Crystal Structure and Magnetic Properties
Gomez, L.	On the magnetic behavior of polycrystalline $R\text{BaCo}_2\text{O}_{5+\delta}$ synthesized by physical and chemical route
Guillermo Chiappe Acosta	Kondo correlations in a two dot system connected by a quantum box.
Robert Mikhail Guzman Arellano	Magnetic order effects on the transport properties of graphene nanoribbons.
C. Helman	Electronic and magnetic structure of orthorhombic MnFeAs
Diaz Forero J. H.	Electronic and Magnetic properties of GaMnN: a DFT study
C. Helman	Magnetic anisotropy of strained Fe films
Barral, M. A.	Transport properties through a Co impurity atom in noble metal chains
Maria Corina Urdaniz	Transition metal chains deposited on Cu(001) with 1/4 ML oxygen or nitrogen coverage: Superexchange interaction dependence on interatomic distance

03- MAGNETO-TRANSPORT, SPIN ELECTRONICS AND MAGNONIC CRYSTALS	
Luis Carlos Costa Arzuza	Permalloy magnonic crystals magneto-static measurements
Federico Fernandez Baldis	Magneto-transport in MnAs/GaAs(100) nano-ribbons
Mara Granada	Anisotropic magnetoresistance in FeGa films with stripe domains
Imara Lima Fernandes	Magnetic polarization of the tunnelling current
Fabiano Mesquita da Rosa	Spin polarized electronic transport in the Heusler compound Pd ₂ MnSn
Eduardo Osquiguil	Uncommon electrical transport properties in Cr (100) films due to spin density wave quantization
João B. dos Santos-Filho	Monte Carlo simulations of the XY Vector Blume-Emery-Griffiths model on multilayer films

Poster Session B - Tuesday April 9th Hall**4-ORGANIC AND CARBON BASED SPINTRONICS**

Noelia Bajales	Structural and magnetic characterization of electron- and ion-induced defects on HOPG
Lapo Bogani	Carbon nanostructures and molecular magnets: from ultra-high sensitivity to molecular spintronics.

05- MAGNETIC SHAPE MEMORY, MAGNETOELASTIC AND MULTIFUNCTIONAL MATERIALS

Trochez Mondragon, J.C.	Modulation temperatures of phase transitions in $\text{Ni}_{2+x}\text{Mn}_{1-x}\text{Ga}$
Giordano, R.	$\text{Ni}_{2-x}\text{MnGa}$ shape memory alloys processed by twin roller melt spinning
Araujo, T.S.	Analysis of a new sunscreen active ingredient based on b-FeTCP nanoparticles
Barturen, M.	Self-organized stripe-like magnetic domains in $\text{Fe}_{1-x}\text{Ga}_x$ thin films epitaxied on GaAs(001)
Kalzanov, D.	Electrodynamical characteristics of multiferroics at super high frequency

07- MICROMAGNETICS, MAGNETIZATION PROCESSES AND MAGNETIZATION DYNAMICS

Bruno Gomes da Silva	Magnetoimpedance in multilayered $\text{Ni}_{81}\text{Fe}_{19}/\text{Cu}$ films electrodeposited on Cu microwires
Alexandru STANCU	Quantitative analysis of ferromagnetic nanowire arrays FORC diagrams
Laurentiu STOLERIU	Micromagnetic analysis of size effects in the switching of synthetic antiferromagnets dots
Yajun Wei	Spin Dynamic studies of permendur films
Helmunt Eduardo Vigo Cotrina	Analytical Description of a Pair of Coupled Magnetic Nanodisks
Radu Tanasa	Switching properties in chains of magnetic hysterons
Fábio Beck	Effect of electric current on domain wall dynamics
Dorin CIMPOESU	Dynamic and temperature effects in perpendicular spin transfer torque magnetic random access memory
Roberta Dutra de Oliveira Pinto	Broadband FMR and magnetic study of exchange-biased multilayers
Dorin CIMPOESU	Model for noncoherent magnetization reversal in toggle magnetic random access memory
Emilio De Biasi	Heat generation in agglomerated ferrite nanoparticles in an alternating magnetic field
Jorge Augusto Otálora Arias	Domain wall manipulation in magnetic nanotubes induced by electric current pulses
Diego González Chávez	FMR dispersion relation of a single spin-valve
Vivian Montardo Escobar	Magnetization dynamics in trilayered ferromagnetic Heusler materials
Claudio Abreu de França	Dipolar interactions in extensive magnetic arrays obtained by optical lithography
Kennedy Leite Agra	Magnetic dynamics behaviour in non-magnetostrictive multilayer thin films grown on flexible substrates
Rosa María Corona	Magnetic properties of cylindrical $\text{Ni}_{80}\text{Fe}_{20}$ nanowires with modulated diameters
Diego Salazar	Magnetic properties in multisegmented cylindrical systems with alternating magnetic wires and tubes

Poster Session B - Tuesday April 9th Hall

07- MICROMAGNETICS, MAGNETIZATION PROCESSES AND MAGNETIZATION DYNAMICS

Alejandro J Moreno	Spatial resolution of arrays of magnetotactic bacteria and magnetic nanoparticles using audiotapes.
Marcos Carara	FMR linewidth and the crystallization processes in Co-based amorphous microwires
Alvaro Espejo	Coercivity depending on the thickness of the Co-Ni nanotubes: theory and experiments
Tortarolo, M.	Fast domain wall dynamics in MnAs/GaAs films
Alejandro G.	Relaxation Dynamics of Ferromagnetic FePt Thin Films in a Broad Frequency Range

08-MAGNETISM IN METALS, ALLOYS AND INTERMETALLICS

Augusto Freitas	Mixed-bond Ising model for the Fe-Mn alloys via effective field theory
Douglas F. de Albuquerque	Study of the FeAl alloys in the Ising Model for $S=2$ spin by employing the Effective Field Theory
Andre Luis Passos	Studies on the bond diluted Ising model of the Kagome lattice.
Nelson Orlando Moreno	Magnetization and magnetocaloric properties of the intermetallic compound DyRhIn ₅
Nadia Alvarez	Origin of the perpendicular anisotropy in FePt alloys
julio cesar trochez	Influence of Y in the Compounds $Gd_{2-x}Y_xFe_{17}$
Ruben Weht	Antiferromagnetism and Ferromagnetism in Layered $1T-CrSe_2$ with V and Ti replacements
Marco Antonio Rodríguez Martínez	Synthesis and characterization of nanostructured $TiFe_{1-x}Ni_x$ compounds and their hydrides
Juan Sebastian Trujillo Hernandez	EFFECT OF HEAT TREATMENT ON THE STRUCTURAL AND MAGNETIC PROPERTIES OF THE SYSTEM $Fe_{56.25}Al_{43.75}$ PREPARED BY MECHANICAL ALLOYING AND BY ARC-MELTED
Henry Núñez Coavas	Magnetic behavior of melt spun $Cu_{90}Co_{10}$ alloys
Jeferson Fernando Piamba	EFFECT OF DISORDER IN THE STRUCTURAL AND MAGNETIC PROPERTIES OF THE $Fe_{50}Si_{50}$ SYSTEM
Juan Sebastian Trujillo Hernandez	STUDY OF THE STRUCTURAL AND MAGNETIC PROPERTIES OF $(Cu_{0.91}Fe_{0.09})$ SYSTEM
Jose Renato Linares Mardegan	Structural distortion and magnetic order in the intermetallic $Eu_3Ir_4Sn_{13}$ compound
Faustino Reyes Gómez	Behavior of the exchange energy and the hyperfine field in Fe ₁ -XM _x (M: Al, Si) systems BCC, obtained by Monte Carlo simulation with 1/2 Ising model.
Aguirre Contreras, W.R.	Simulation of magnetic phase diagram (θ , x , S) and the average number of critical bonds for the heterostructural and bulk $A_{1-x}B_x$ system.
Jorge M. Levingston	Quenching Effect on Twin Roller Melt Spun NdFeBNiC alloys
MERCEDES DIAZ LAGOS	Influence of inter-particle interactions on the magnetic behavior of cobalt nanoparticles embedded in gold and vanadium-gold systems

Poster Session B - Tuesday April 9th Hall

08-MAGNETISM IN METALS, ALLOYS AND INTERMETALLICS

Germán Yovanny Vélez Castillo	COMPARATIVE STUDY ON THE ATOMIC ORDERING OF BALL-MILLED AND ARC-MELTED Fe ₅₀ Cr ₅₀ ALLOYS
Raimundo Lora Serrano	Y-substitution effects in Tb(1-x)YxRhIn5 antiferromagnet compounds
Juan Fernando Jaramillo	Magnetic Phase Diagram for Non-Epitaxial Cr/Gd/Cr-Multilayers
Monica María Rico Castro	Local hyperfine fields on ⁵⁷ Fe atoms in mechanically alloyed Fe ₇₀ Al _{30-x} B _x
José Trinidad Elizalde Galindo	Structural and magnetic properties of Mn-Al based nanostructured alloys

09- DILUTED MAGNETIC SEMICONDUCTORS

Fermin Herrera Aragón	Thermal annealing effects on the structural and magnetic properties of Fe-doped SnO ₂ nanoparticles
Nilson Ferreira	Microstructural and magnetic studies of Cr-doped CeO _{2-δ} nanoparticles
Macêdo, M.A.	Oxygen Vacancy induced Magnetic Polarons in TM-doped ZnO Thin Films Grown by Magnetron Sputtering
Hermínia Verediana S Pessoni	Room-temperature ferromagnetism in Zn _{0.85} Co _{0.15} O nanoparticulate powders prepared by combustion reaction method
Juliana Marcela Abraão de Almeida	Structural and Magnetic Characterization of Ce _{1-x} TM _x O ₂ (TM = Cr, Fe) Nanoparticles
Ching-Chung Wang	Effect of intrinsic defects on the magnetic and high-frequency magneto-electrical properties in nitrogen-doped ZnO thin films
Rafael Tomaz Silva	Synthesis, structural and magnetic properties of the Co-doped ZnO Nanoparticles
Jesús Ernesto Ramos Ibarra	Magnetic characterization of Fe-doped ZnO nanoparticles prepared by a co-precipitation method
Naiara Arantes Lima	Synthesis, Structural and Magnetic Properties of Undoped Nanostructured Zinc Oxide
Luis Carlos Sánchez	Production and Characterization of Sn _{1-x} Fe _x O ₂ and Ti _{1-x} Fe _x O ₂ Nanopowders with 0 ≤ x ≤ 0.1 Obtained by Mechanical Milling
Francisco González Pinto	Magnetism in Co-doped ZrO ₂ nanoparticles
Aneely Carrero	Synthesis, structure, optical and magnetic properties of Co-doped ZnO nanoparticles.
Enzo Hernandez	Preparation and Characterization of Manganites La _{1-x} Zn _x MnO ₃ by Auto-Combustion Method.
Ivan Camilo Zarate Barrero	Pressure effects on the electronic and magnetic properties of GaxMn1-xN compounds, ab-initio study
Mara Granada	Direct probing of band structure Berry phase in diluted magnetic semiconductors
Errico. L.	Bound magnetic polarons in Fe-doped rutile TiO ₂
Ricardo Eulices Báez Cruz.	Electronic and Magnetic properties of 1x1 CrN/GaN multilayer: a theoretical study
Javier Curiale	Joule Heating and Current-Driven Domain-Wall Motion in Semiconducting Tracks: Experiments and Simulations.
A.F.Cabrera	Structural and magnetic properties of nanopowders of SnO ₂ and TiO ₂ doped with Ni

Poster Session B - Tuesday April 9th Hall

11-SOFT MAGNETIC MATERIALS AND RELATED APPLICATIONS	
Luis Alfonso García Cerda	Synthesis of magnetic CuNi nanoalloys by solgel based Pechini method
A, J. Orozco	SUSCEPTIBILITY A.C AND MAGNETIZATION OF AMORPHOUS ALLOY COMPOSITION OF Fe ₃₇ Co ₃₅ Nb ₆ B ₁₁ Si ₁₀ Cu ₁
Gabriela Pozo López	Structural characterization of two-phase soft magnetic alloys obtained by twin-roller melt-spinning
Javier Moya	Design parameters for nanostructured soft magnetic alloys.
Mercedes Arana	Synthesis and characterization of carbon-coated magnetite for functionalized ferrofluids
Jorge Hernán Obando Ch	Effect of Co on crystallization, magnetic properties and corrosion resistance of Fe _{75-x} Co _x Si ₁₅ B ₁₀ amorphous alloys
Abilo Velásquez	High Temperature Magnetization and Thermal Behavior in the Fe ₇₀ Nb ₁₀ B ₂₀ Metallic Glass
I. J. Bruvera	Remote drug release study using ferrogels under AC fields
Andrés Rosales-Rivera	Phase Diagram for Chromium-doped FINEMET-type Amorphous Alloys

12- MOLECULAR MAGNETISM	
Cristian Enachescu	Elastic Interaction Model For Hysteresis In Spin Transition Molecular Magnets
Marlene González Montiel	Coordination Induced Pi-Pi Interaction in T(1m _{2p}) ₂ [Ni(CN) ₄] with T = Mn, Co, Ni, and 1m _{2p} =1-methyl-2-pyrrolydone: Synthesis, Crystal Structure and Magnetic Properties
Enrique Louis Cereceda	About the Lieb theorem and the possibility of magnetism in Polycyclic Aromatic Hydrocarbon molecules
María José Santander	Quantum reversal of vorticity in magnetic rings
Alvaro S. Núñez	Theory of piezo-spintronic effects in spin-Perls materials

Poster Session C - Thursday April 11th Hall

10- MAGNETIC OXIDES	
Adilmo Francisco de Lima	An analysis of orbital hybridization in the magnetoelectric YMnO ₃ crystal from the first principles calculations
Petrucio Barrozo da Silva	Structural, electrical and magnetic properties of La ₂ FeMnO ₆ prepared by combustion synthesis
Cláudia Adriana Silva	Effect of Mn-doping on Magnetization Properties of SmFe _{1-x} Mn _x O ₃ , Compounds ($\text{emph}\{x\} = 0.1, 0.2 \text{ and } 0.3$)
J.F.Jurado	Correlation Properties of Magneto- Transport and Structural of The Films La _{0.7} Ba _{0.3} MnO ₃ / SrTiO ₃ (100) grown by sputtering
Ariday Samit Mosquera Polo	Synthesis and Microstructural, Magnetic and Electrical Characterization of the Complex Perovskite BiLaFe ₂ O ₆
Maria Elenice dos Santos	Influence of the calcination temperature on the magnetic properties of the multiferroic Co ₂ MnO ₄ spinel
J. I. González Sutter	Substrate influence in the physical properties of ferromagnetic/ferroelectric multilayers.
Adolfo Franco Júnior	A study of the structural and magnetic properties of x(CoFe ₂ O ₄) + (1-x)ZnO composites for $0.05 \leq x \leq 0.20$
Luiz Augusto Sousa de Oliveira	Suppression of the spiral ordering and magnetic anisotropy studies in multiferroic BiFeO ₃ nanotubes
Oliva Marcos	Magnetic behavior of Mg and Co modified Iron mixed oxides
Guillermo Alvarez	Detection of the electric transition by resonant and non-resonant microwave absorption in the multiferroic LuCrO ₃
Rafael A Ferreira	Synthesis by solid-state reaction of bismuth manganite BiMn ₂ O ₅ doped with alkaline-earths (Ca, Sr): crystallographic and magnetic properties.
Dmitry A. Kuzmin	Spectrum of coupled waves in orthorhombic multiferroics with cycloidal antiferromagnetic structure in external electric and magnetic fields
Igor V. Bychkov	Change in speed of electromagnetic waves in multiferroic TbMnO ₃ with sinusoidal antiferromagnetic structure
Yvens Santos	Spin-phonon coupling in multiferroic Ba _{1.6} Sr _{1.4} Co ₂ Fe ₂₄ O ₄₁
Diego Rubi	Resistive switching in thin films of La _{2/3} Ca _{1/3} MnO ₃ manganite
Everardo Lopez Moreno	Cobalt ferrite films grown by means of reactive magnetron sputtering through of Fe and Co targets
Patricia Rivas	Synthesis and Characterization of MnFe ₂ O ₄ Nanoparticles
Leânio Moraes dos Santos	Weak ferromagnetism in Sr ₂ FeCrO ₆
Herlinda Montiel Sanchez	Resonant and non-resonant microwave absorption study of the Verwey transition in Fe ₃ O ₄ nanoparticles
Oliva Marcos Iván	Magnetic behavior of single layers of BTO-BaM composites grown by PLD
John Edward Ordoñez Nãñez	Ferroelectric/Ferromagnetic Bilayers Based on Oxide Materials by Pulsed Laser Deposition
Adilson J A de Oliveira	Magnetic and structural properties of Co:V ₂ O ₃ Co powder samples
Maria Teresa Causa	Spin-phonon relaxation in ACr ₂ O ₄ spinels with A = Mg, Zn, and Mn

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10- MAGNETIC OXIDES	
Ivón R. Buitrago	Quantum magnons of the intermediate phase of half-doped manganite oxides
Valeria Fuster	Magnetic Characterization of the New Double Perovskites $\text{La}_{2}\text{MnMoO}_{6}$ and $\text{La}_{3}\text{Mn}_{2}\text{MoO}_{9}$
Leonardo de Sousa Silva	Effects of Magnetic Frustration in Cubic Spinel $\text{Co}(\text{Al}_{1-x}\text{Fe}_{x})_{2}\text{O}_{4}$
Herme, C.A.	Nd-Co substituted strontium hexaferrite powders: Microwave absorbing properties in the X-band
Anderson Mansfield	Z-type strontium hexaferrite thin films prepared by proteic sol-gel process
Romoaldo Santos Silva Junior.	Structural, electrical and magnetic properties of $\text{LaAl}_{1-x}\text{Cr}_{x}\text{O}_{3}$
D.A. Landinez Tellez	Structural, Magnetic and Electric properties of $\text{LaBi}_{5}\text{Fe}_{2}\text{Ti}_{3}\text{O}_{18}$ material synthesized by Solid-State method
J.A. Cardona Vasquez	Multiferroic Properties in New $\text{La}_{0.37}\text{Ca}_{0.17}\text{Ba}_{0.43}\text{Mn}_{0.52}\text{Ti}_{0.44}\text{Zr}_{0.04}\text{O}_{3}$ Complex Perovskite
Jairo Roa-Rojas	Synthesis process and magnetic characterization of the novel aurivillius ferroelectric material $\text{Bi}_{4}\text{Gd}_{2}\text{Ti}_{3}\text{Fe}_{2}\text{O}_{18}$
Karen Lizeth Salcedo Rodríguez	Magnetic Properties Of Zn-Ferrites Obtained From Multilayer Film Deposited By Sputtering
O. Moran	The role the preparation method on the structural and magnetic properties of $\text{YBaCO}_{4}\text{O}_{7+\delta}$; cobaltites
Cesar David Fierro Ruiz	Theoretical study of magnetic moment in LiNbO_{3}
Rosa Abril Hernandez Molina	Synthesis and characterization of nanoparticles of LiNbO_{3} by humidity chemical
Izquierdo, J.	Emergence of ferromagnetism in TbMnO_{3} bulk by Al-doping
P. Linhares C. Filho	Influence of atmospheres and treatment setup on the structural and physical properties of the system $\text{La}_{2}\text{CoMnO}_{6}$ prepared by combustion synthesis
Maria Elenice dos Santos	Optimization of magnetic properties of $\text{Bi}_{2}\text{Co}_{2-x}\text{MnO}_{4}$ spinels by short-time etching
Torre, Luis	Structural, magnetic and electric characterization of $\text{YBaCo}_{4-x}\text{Ni}_{x}\text{O}_{7+\delta}$ ($x=0; 0.1; 0.2$)
Gustavo Fóscolo de Moura Gomes	Magnetism of ultrathin $\gamma\text{-Fe}_{2}\text{O}_{3}$ on $\text{Pd}(111)$ by XMCD
Gabriela Aurelio	On the cation substitution site of doped layered cobaltites studied by neutron diffraction and X-ray absorption spectroscopy
Karmen Liliana Lopez Maldonado	On the magnetoresistance of zinc ferrite nanoparticles obtained by solid state reaction
Joao Paulo Sinnecker	Comparison between the magnetic and structural properties for systems $\text{BaM}+\text{Ti}_{4}^{+x}$ and $\text{BaM}+(\text{Co}^{2+}, \text{Ti}^{4+})_{x}$
Joao Paulo Sinnecker	$\text{BaM}+\text{Al}^{3+}_{x}$ and $\text{SrM}+\text{Al}^{3+}_{x}$ systems. Differences and similarities in their structural and magnetic properties for $x=0, 0.1, 0.3, 0.5, 0.7, 1.0$ and 1.3 .
Bruna da Costa Andrade	Influence of Ce and Gd substitution on magnetic and crystallographic properties of $\text{Sr}_{3-x}(\text{Ce,Gd})_{x}\text{Co}_{2}\text{Fe}_{24}\text{O}_{41}$

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Gladys Nieva	Magnetic properties of the double perovskite LaPbMSbO_6 (M = Mn, Co and Ni)
Gladys Nieva	Change in the magnetic domains alignment process at the onset of a frustrated magnetic interactions state in ferrimagnetic $\text{La}_3\text{Ni}_2\text{SbO}_9$
Girley Ferreira Rodrigues	QUANTIFICATION OF Fe_3O_4 FRACTION IN PELLET FEED FOR THE DIRECT REDUCTION PROCESS
Marly Montero Muñoz	Thermal annealing effects on the magnetic properties of ZnO nanoparticles
Raimundo Lora Serrano	Magnetic and structural properties of the mixed perovskite $\text{Ba}_{1-x}\text{La}_x\text{Ti}_{1/2}\text{Mn}_{1/2}\text{O}_3$ as a function of La-substitution.
M.A. Morales	Microstructural, Crystallographic and Magnetic Characterization of rock a mineral obtained from a deposit in Rionegro-Huila , Colombia
Alejandro G.	Oxygen vacancies and magnetic properties of polycrystalline CeO_2
Steren, L.B.	Magnetic properties of ferromagnetic/ferroelectric multilayers.
Miguel morales	Microstructural, Crystallographic and Magnetic Characterization of rock a mineral obtained from a deposit in Rionegro-Huila , Colombia
R.D. Sanchez	Influence of the A-cation size on the paramagnetic susceptibility in A_2CoWO_6 (A = Ca, Sr and Ba)
Davian Martinez Buitrago	MAGNETIC AND STRUCTURAL BEHAVIOR SYSTEM $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Mn}_{1-x}\text{Ti}_x\text{O}_3$ (X=0.4, 0.5 Y 0.6)
13- ADVANCED EXPERIMENTAL TECHNIQUES FOR MAGNETIC MATERIALS	
Ramon Valls Martin	Magnetic field and gradient standards using permanent magnets: design considerations, construction and validation by nuclear magnetic resonance
Ramon Valls Martin	An alternative magnetic measurement system for nanotechnology applications
14- MAGNETIC MATERIALS FOR APPLICATIONS (PERMANENT MAGNETS, MAGNETOCALORICS)	
Marcos Cleison Silva Santana	Magnetization and Magnetocaloric Effect of $\text{Sm}_2\text{FeMnO}_6$ complex perovskite.
Nilson Antunes de Oliveira	Calorics effects in $\text{R}_5\text{Si}_2\text{Ge}_2$ (R=Gd, Tb)
Leonowicz, M.	Processing and properties of magnetorheological fluids for the prospective application in a passive armour
Bruna Costa	Effect of the process of obtaining the W-type barium hexaferrite (Co_2W) in the structural and magnetic properties
Deisiane Andrade	Magnetic and Crystallographic properties of $\text{CaFe}_{12}\text{O}_{19}$
Waldson Silva	Synthesis and magnetic properties of $\text{SrFe}_{12-x}\text{Mn}_x\text{O}_{19}$ obtained by proteic sol-gel process
Marco Buzinaro	The effect of samarium ion on magnetic properties of Sr-hexaferrite

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14- MAGNETIC MATERIALS FOR APPLICATIONS (PERMANENT MAGNETS, MAGNETOCALORICS)	
Sergey Taskaev	Magnetic and thermodynamic properties of cold rolled Gd ribbons.
Marangolo Massimiliano	Ultrasonic triggering of giant magnetocaloric effect in MnAs thin films
Guillermo Jorge	Formation and topological analysis of self-assembled structures of magnetic microparticles in bi and tri-axial rotating fields
S. Agustín Martínez Ovalle	Magnetic behavior raw clay material
Kumar, H.	Evidence of coexistence of ferromagnetic and antiferromagnetic phases in nearly equiatomic FeRh
Kempf, R.	Study of the magnetic properties of steels for reactor pressure vessels embrittled by neutron irradiation
Leonardo Ulian Lopes	Evaluation of Process Variables on the Degree of Alignment of Sintered Nd-Fe-B Magnets made by Powder Injection Molding
Luis Carlos Sánchez	A Structural, Magnetic and Mössbauer Study of $\text{La}_{2/3}\text{Ca}_{1/3}\text{Mn}_{1-x}\text{Fe}_x\text{O}_3$ ($0 \leq x \leq 0.1$) Manganites
Bez, H.N.	Room-Temperature Magnetic Refrigerants of La-Fe-Si-based alloys produced by HDSH process
Carvalho, M.C.	Radially Oriented Nd-Fe-B Ring Magnets Obtained via Powder Injection Molding Process
Rosmary Guillen Guillen	Specific Power Absorption and Magnetic Properties of CoFe_2O_4 Nanoparticles for Magnetic Hyperthermia
Gerson J. Márquez	Synthesis and Characterization of NiFe_2O_4 Nanoparticles for Magnetic Hyperthermia
Israel Betancourt	Nanosized M-type hexaferrites with enhanced coercivity
Daniel Travessini	Optimization of the reduction-diffusion process varying Si content for $\text{La}(\text{Fe},\text{Si})_{13}$ obtantion.
Julian Pino	Analysis of the Influence of the thickness on the critical exponents values of $\text{La}_{2/3}\text{Ca}_{1/3}\text{MnO}_3$ thin films
Bilovol Vitaliy	Influence of Nb doping on magnetic properties of nanocrystalline $\text{Nd}_y\text{Fe}_{86-x-y}\text{B}_{14}\text{Nb}_x$ ($y = 7, 8; x = 0, 2, 4$) alloys
Jaime A. Lozano	Direct measurements of the magnetocaloric effect in promissor magnetic refrigerants
Carlos Sjogreen	Morphological, Structural And Magnetic Characterization Of Black Sands Of The Guajira \textit{Colombia}
Marcos Flavio de Campos	EBSD and SEM-FEG analysis of $\text{Sm}_2\text{Co}_{17}$ magnets
Dafne Yael Goijman	Influence of the chemical disorder in the magnetocaloric effect in Manganites with phase separation
Alarcon-Suesca C.E.	Ferroelectric, magnetic and structural studies of $\text{Bi}_4\text{LaSmFe}_2\text{Ti}_3\text{O}_{18}$ material using solid state synthesis
Ada Ghilarducci	Syncronic trifasic motor with permanent magnet elaborated by rapid quench using $\text{Nd}_{60}\text{Fe}_{30}\text{Al}_{10}$
Mariano Quintero	Magnetocaloric effect controlled by grain size in phase separated manganites.

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15- SENSORS, MEMS AND MAGNETIC DEVICES	
Sebastian Valencia R.	Magnetic Flux Entropy as a Tool to Predict Transformers Failures
Lakshmi Varaha Iyer	A Novel Two-axis Theory based Approach towards Determination of Magnetizing Characteristics of Line Start Permanent Magnet Machine and its Effects on Stability and Starting Performance
Labak, Anas	A novel approach towards leakage flux reduction in axial flux switched reluctance machines through utilization of grain oriented steel segment and improved winding configuration
Granja, L.	Magnetic decoupled mesas due to phase-separation in La _{0.6} Ca _{0.4} MnO ₃ devices

16-MODELING FOR APPLICATIONS	
Masoud Movahhedi	Proposing a Wavelet Based Meshless Method for Simulation of Magnetic Materials
Teixeira, J.C.	Analysis of the magnetic properties of a composite obtained by using a 3D element finite method
Juanita Londoño Navarro	Monte Carlo simulation of magnetic hollow multi-core nanoparticles
Claudia Milena Bedoya Hincapié	Ferroelectricity Behavior Of Bismuth Titanate (Bi ₄ Ti ₃ O ₁₂) Thin Films
Oscar David Arbeláez	Spin Transport in magnetic materials: a Monte Carlo approach
Hugo Hernán Ortiz Alvarez	Monte Carlo simulation of magnetoelectric interaction on PZT-LSMO bilayer composites
Santos-Filho, J.B. dos	Monte Carlo simulations of the site-diluted three dimensional XY model
de Campos, M.F.	Squareness of Nd ₂ Fe ₁₄ B magnets evaluated with EBSD texture data
Mulcue, L.F.	Determination of critical exponents of inhomogeneous Cr-Gd-Cr multilayers using the Kouvel-Fisher and Berger Methods: a comparison

17- BIOMAGNETISM	
Claudia Lucía Cortés Cortés	Heart rate entropy related to an applied magnetic field over the human chest
Fernanda A. Sampaio da Silva	SYNTHESIS AND CHARACTERIZATION OF COATED Fe ₃ O ₄ NANOPARTICLES FOR USE IN CELL HYPERTHERMIA
Arciniegas, L.	In vitro magnetofection: magnetic force influence
de Sousa, M.E.	Dipolar interactions effect in the relaxation mechanism selection
Diego Fernando Coral	MAGNETIC HYPERTHERMIA AND MAGNETIC DYNAMIC RESPONSE OF AQUEOUS SUSPENSION OF Fe ₃ O ₄ NANOPARTICLES COATED WITH OLEIC ACID/CHITOSANE
Pasquevich, G.A.	INFLUENCE OF THE SOLID-LIQUID PHASE TRANSITION ON THE MAGNETIZATION OF FERROFLUIDS AND WET FERROGELS
Mario Eduardo Cano González	Magnetic Induction Heating Ability of Silica-Cobalt Ferrite Nanoparticles