

October 01, 2018 (afternoon)**14h00-19h00****Registration, Reception,
Official opening ceremony: 17 h****October 02, 2018****9h00- 11h15****Topic 04: Theory and modeling in magnetism
Chairman: Prof. R. Schäfer****9h00- 9h30****PL01-T04****S. Lounis****Single magnetic skyrmions from first-principles: from pinning effects to electrical and x-ray reading****9h30- 10h00****PL02-T04****S. Bonetti****Terahertz probing and manipulation of magnetism****10h00-10h30****PL03-T04****S. Sanvito****End-to-end materials discovery with electronic structure theory and machine learning****10h30-10h45****O01-T04****H. M. A. Mazouz****First-principles prediction of lattice dynamics and thermal properties of rocksalt half-metallic ferromagnets: case of NaO and KO****10h45-11h00****O02-T04****D. Brinis****Dynamics of magnetization in the assemblies of ferromagnetic nanoparticles : Effect of interactions****11h00-11h15****O03-T04****T. Rezkallah****Electronic and magnetic properties of Mn doped ZnO using the FP-LAPW approximation****11h15-11h30****Coffee Break****11h30- 13h00****Topic 02 : Mössbauer spectroscopy in magnetic materials
Chairman: Prof. G. Langouche****11h30- 12h00****PL04-T02****J. M. Greneche****Fe-based nanomaterials investigated by ⁵⁷Fe Mössbauer spectrometry****12h00- 12h30****PL05-T02****A. Kamnev****Ferritins as natural magnetic nanomaterials: Mössbauer spectroscopic monitoring of iron transformations in bacterial cells****12h30-12h45****O04-T02****N. Boukherroub****Microstructure, hyperfine and magnetic properties of nanostructured (Ni₇₅Fe₂₅)_{100-x}Si_x alloy elaborated by mechanical alloying****12h45-13h00****O05-T02****O. Ould Fella****Microstructural and Magnetic Properties of Zinc ferrite and Annealed zinc ferrite Nanoparticles by Means of X-Ray Diffraction and Mössbauer Spectroscopy****13h00-14h30****Lunch****14h30-16h45****Topic 01: Elaboration of magnetic thin films and nanomaterials
Chairman: Prof. S. Lounis****14h30-15h00****PL06-T01****J. Vejpravova****Internal spin architectures in nanoparticles****15h00-15h30****PL07-T01****P. Gorria****End-to-end materials discovery with electronic structure theory and machine learning
Exploring magneto-volume anomalies and magneto-caloric effect in R₂Fe₁₇ intermetallic alloys****15h30-16h00****PL08-T01****I. Chicinas****Soft magnetic nanocrystalline powders and nanocrystalline/composite compacts obtained by mechanosynthesis and spark plasma sintering****16h00-16h15****O06-T01****A. Kaibi****Microstructure, hyperfine and magnetic properties of nanostructured (Ni₇₅Fe₂₅)_{100-x}Si_x alloy elaborated by mechanical alloying****16h15-16h30****O07-T01****M. Mebarki****Effect of the elaboration techniques and the porosity of the substrate on the structural and magnetic properties of Fe films deposited on Al****16h30-16h45****O08-T01****D. Lakhdari****Elaboration and characterization of NiFe thin films****16h45-17h00****Coffee break**

17h00-19h00	Topic 04: Theory and modeling in magnetism Chairman: Prof. S. Sanvito		
17h00-17h15	O09-T04	Y. Bensaidane	Giant magneto-resistance in the CoCuCo magnetic junctions
17h15-17h30	O10-T04	I. Djabri	Structural, electronic, optical, and magnetic properties of Co-doped Cu ₂ O
17h30-17h45	O11-T04	D. Aissat	The effect of geometric anisotropy on transport properties in spintronic junction based on MnPt Connected to a noble metal lead
17h45-18h00	O12-T04	Z. Abdelli	Ab initio electronic structure calculations of half-metallic ferromagnetism in diluted magnetic semicond based GeTe
18h00-18h15	O13-T04	Y. Boulbenza	Electronic and magnetic study of new diluted semiconductors
18h15-18h30	O14-T04	A. Labdelli	Investigation of the magnetic and optoelectronic properties of the perovskite GdRuO ₃ using DFT+U with spin-orbit coupling
18h30-18h45	O15-T04	M. A. Ghebouli	Spin-Polarized structural, electronic and magnetic properties of diluted magnetic semiconductors Ca _{0.75} TM _{0.25} O (TM = Fe, Co and Ni) in the rock salt (B1) phase
18h45-19h00	O16-T04	H. B. Benziane	Magnetic exchange interaction of Mn ₂ SnTe ₄
October 03, 2018			
9h00- 11h15	Topic 03: Properties of magnetic thin films and nanomaterials Chairman: J. M. Greneche		
9h00- 9h30	PL09-T03	R. Schäfer	Micromagnetism, Magnetic Microstructure and their Magneto-Optical Analysis
9h30-10h00	PL10-T03	W. A. A. Macedo	Magnetic anisotropy and coupling in Fe-based layered nanostructures
10h00-10h30	PL11-T03	M. Kalbac	Magneto-Raman spectroscopy-a great tool for studying the coupling of magnetic excitations to phonons
10h30-10h45	O17-T03	N. Mansouri	Physicochemical and magnetic properties of Fe ₅₀ Co ₅₀ nanowires electroplated in alumina membranes
10h45-11h00	O18-T03	T. Kacel	Influence of the thickness on structural, electrical and magnetic properties of Ni films electrodeposited onto n-Si (100) substrates
11h00-11h15	O19-T03	M. Hocine	Effect of the milling time on structural and magnetic properties of (Fe _{0.7} Co _{0.3}) ₉₅ Si ₅ alloy obtained by mechanical alloying
11h15-11h30	Coffee break		
11h30-13h15	Topic 04: Theory and modeling in magnetism Chairman: J. Vejpravova		
11h30-12h00	PL12-T04	N. Baadji	charge, spin and heat current in magnetic tunnel junction
12h00-12h30	PL13-T04	L. V. Dobysheva	First-Principles Calculations for Alloyed Cementite (Fe–Ni–Cr) ₃ C
12h30-12h45	O20-T04	R. Tigrine	Localized energies and state density at the alloy surface
12h45-13h00	O21-T04	M. A. Lahmer	Long-range antiferromagnetsim in Fe-doped ZnAl ₂ O ₄ : a first-principles study
13h00-13h15	O22-T04	O. Hamidane	First-Principle Predictions of Electronic Properties and Half-Metallic Ferromagnetism in Vanadium-Doped Rock-Salt SrO
13h15-14h30	Lunch		

14h30-17h15	Topic 01: Elaboration of magnetic thin films and nanomaterials Chairman: A. A. Kamnev		
14h30-15h00	PL14-T01	V. Kuncser	Magnetism and magneto-optical effects in rare-earth based amorphous-like compounds
15h00-15h30	PL15-T01	S. Farhat	Graphene synthesis via plasma enhanced CVD and magnetic induction
15h30-16h00	PL16-T01	A. Espinosa	Magnetic nanoparticles-mediated thermal therapies: quantitative comparison of heat generation, therapeutic efficiency and limitations
16h00-16h15	O23-T01	Y. Gaci	Effect of Fe content on the structural and magnetic properties of ternary $(\text{Ni}_{60}\text{Co}_{40})_{100-x}\text{Fe}_x$ nanoparticles synthesized by hydrothermal route
16h15-16h30	O24-T01	M.Salhi	Elaboration of Nickel films by PVD : method and procedure
16h30-16h45	O25-T01	D. Grine	Deposition of $\text{TiO}_2/\text{Fe}_2\text{O}_3$ composite thin films by vacuum thermal evaporation
16h45-17h00	O26-T01	A. Hayoune	Synthesis and characterization of magnetic iron oxide/clay composite and its application for methylen removal
17h00-17h15	O27-T01	M. Mhadhbi	Structural and magnetic properties of nanostructured $\text{Fe}_{60}\text{Al}_{40}$ powders prepared by mechanical alloying
17h15-17h30	Coffee break		
17h30-19h30	Poster session		
October 04, 2018			
9h00- 11h00	Topic 03: Properties of magnetic thin films and nanomaterials Chairman: W. A. A. Macedo		
9h00-9h30	PL17-T03	S. M. Chérif	Dzyaloshinskii-Moriya interaction in ultrathin magnetic stacks: a route toward future spintronic
9h30-10h00	PL18-T03	A. Cheikhrouhou	Magnetic and magnetocaloric properties of RM_2 laves phases compounds (R = Er, Tb, Ho and M = Fe, Co, Mn)
10h00-10h15	O28-T03	S. Bahamida	Structural and magnetic properties of $\text{Fe}_{64}\text{Pd}_{36}$ films deposited onto glass and Si (100) substrates
10h15-10h30	O29-T03	K. Cheraitia	Analysis of impurities of Nd-Fe-B Magnet by nuclear method and recovery by precipitation chemical of Nd, Pr rare earths
10h30-10h45	O30-T03	N. Djellal	Effect of lanthanum substitution on cobalt ferrite structural and magnetic properties
10h45-11h00	O31-T03	H. Oubouchou	Elastic modeling of spin-crossover nanocomposites: towards multi-sptep spin transitions
11h00 – 11h15	Coffee break		
11h15-13h00	Topic 05: Magnetism for engineering and environment Chairman: Prof. V. Kuncser		
11h15-11h45	PL19-T05	E. Hristoforou	Selective magnetic separation for sewage and desalination
11h45-12h15	PL20-T05	N. Fenineche	Microstructure and Magnetic Properties of FeNi and FeSi Alloys using additive manufacturing Process
12h15-12h30	O32-T05	D. Ouadjaout	Numerical analysis of induction heating in a crystal pulling-CZ furnace
12h30-12h45	O33-T05	S.Aguib	Modeling of magnetic force and identification the magneto-mechanical properties of elastomer
12h45-13h00	O34-T05	W. Rezig	Preparation, Characterization and valorization of Hydroxide Ferric (III) Modified Aluminosilicate Kieselgu Material
13h00-13h30	Closing ceremony		
13h30-14h30	Lunch		
14h30-20h00	Excursion around Algiers city		