



SCIENTIFIC PROGRAMME

10th JULY

Time	Title	Speaker		
12:00 h	ARRIVAL OF PARTICIPANTS			
13:00 – 15:20	LUNCH TIME			
Chair: Dr. Felip SANDIUMENGE				
15:20 – 15:30	Welcome	XAVIER OBRADORS		
15:30 – 16:15	Beyond electro-static effects at oxide hetero- interfaces: Electrochemical phase change, strong electric field and strain	Bilge Yildiz		
16:15 – 16:35	Mechanisms of novel transient liquid assisted growth for ultrafast production of YBa2Cu3O7-x thin films	Laia SOLER		
16:35 – 16:55	The role of Oxygen exchange kinetics in the engineering of carrier concentration of YBa2Cu3O7-x thin films	Alexandr STANGL		
16:55 – 17:25	Coffee-Break			
Chair: Prof. ^a Carmen OCAL				
17:25 – 17:45	Light emission from C60 molecules explored at the atomic scale	Pablo MERINO		
17:45 – 18:10	Synthesis, structure and magnesium diffusion in MgMoN2: a combined experimental and theoretical approach	Roberta VERRELLI		
18:10 – 19:00	SPEED FAST POSTER PRESENTATIONS (2')			
20:00 – 22:30	DINNER			











11th JULY

Time	Title	Speaker	
Breakfast (buffet)			
	Chair: Prof. Xavier OBRADORS		
09:00 - 09:45	Influence of granularity and artificial pinning centers on superconducting properties of thick YBCO films grown on technical templates	Ruben HÜHNE	
09:45 – 10:05	Reversible tuning of spin textures and resistance states in High Temperature Superconducting films	Anna PALAU	
10:05 – 10:25	Transient Liquid Assited Growth of YBa2Cu3O7- ð films at low oxygen pressure	Jordi FARJAS	
10:25 – 10:45	Chemical growth techniques to nanoengineer functional oxide thin films and interfases	Mariona COLL	
10:45 - 11:15	Coffee-Break		
	Chair: Dr. Gervasi HERRANZ		
11:15 – 11:35	First-principles theory of polar twin boundaries in ferroelastic SrTiO3	Massimiliano STENGEL	
11:35 – 11:55	CONSOLIDER NanoTHERM, an overview: Nanostructuring materials to empower Thermoelectricity	Alejandro GOÑI	
11:55 – 12:15	Tunneling through ferromagnetic La2Co1- xMn1+xO6 ultrathin insulating barrier	Laura LÓPEZ-MIR	
12:15 – 12:35	Formation of complex molecular nanostructures by on-surface synthesis	Nerea RUIZ DEL ARBOL	
12:35 – 12:55	Complex behaviour of Mn0.85Co0.15WO4 multiferroic crystal disclosed by resonant magnetic x-ray scattering	Javier HERRERO- MARTÍN	
12:55 – 13:20	SPEED FAST POSTER PRESENTATIONS (2')		
13:20 - 15:30	LUNCH TIME		
Chair: Dr. Lourdes FÀBREGA			
15:30 – 16:15	Sustainable materials applied to electronics	Elvira FORTUNATO	
16:15 – 16:35	Competition between octahedral tilts and polar shifts in perovskites	Jaume GÁZQUEZ	
16:35 – 16:55	High temperature properties of frustrated Febased multiferroics	Arnau ROMAGUERA	
16:55 – 17:30	SPEED FAST POSTER PRESENTATIONS (2')		











17:30 – 19:00	Coffee-Break and POSTER SESSION
20:00 – 22:30	DINNER

12th JULY

Time	Title	Speaker		
Breakfast (buffet)				
Chair: Prof. Alejandro GOÑI				
09:00 - 09:45	The role of metal-oxide grain boundaries for applications in photovoltaics and spintronics	Keith McKENNA		
09:45 – 10:05	Spin currents generated with oxide magnetic insulators	Ferran MACIÀ		
10:05 – 10:25	Real and reciprocal space mapping of multifunctional plasmonic and photonic systems	Rafael Cicherelo		
10:25 – 10:45	Time dependent Adjustable magnetoelectric coupling in Martensitic FeRh alloys	Ignasi FINA		
10:45 – 11:15	Coffee-Break			
Chair: Prof. Benjamín MARTÍNEZ				
11:15 – 11:35	Magnetic simulations of structures and devices: from skyrmions to metamaterials	Núria del VALLE		
11:35 – 11:55	Thermal conductivity of silicon dioxide close to a structural phase transition from first principles	Hugo ARAMBERRI		
11:55 – 12:15	Structural distortions triggered by the most common YBCO defect: the Y2Ba4Cu8O16 intergrowht	Bernat MUNDET		
12:15 – 12:35	Tailoring lattice strain and ferroelectric polarization of epitaxial BaTiO3 thin films on Si(001)	Lyu JIKE		
12:35 – 12:55	Thermal boundary resistance of domain walls in ferroelectric oxides through non-equilibrium molecular dynamics	Juan Antonio SEIJAS BELLIDO		
12:55 – 15:30	LUNCH TIME			











Chair: Dr. Carles NAVAU				
15:30 – 16:00	Analytical microsystems for biochenmical detection	César FERNÁNDEZ- SÁNCHEZ		
16:00 – 16:20	Atomic-specific mapping of the magnetization decoupling in Ce-substituted YIG films	Hari Babu VASILI		
16:20 – 16:40	Piezo-generated charge mapping revealed through direct piezoelectric force microscopy	Andrés GÓMEZ		
16:40 – 17:00	Thermoelectric far-infrared sensors fabricated on SiGe membranes	Pablo VACCARO		
17:00 – 17:30	Summary and conclusions	Xavier Obradors		
17:30	END OF SESSION			

