

Program (CET)

Thursday, 24 June 2021

08:30 – 08:35	Scientific organizers	Welcome words
08:35 – 08:50	Stefan Jorda	About the WE-Heraeus-Foundation
08:50 – 09:00	Denys Makarov	Introductory remarks
09:00 – 09:45	Martin Kaltenbrunner	Degradable materials with extreme mechanics for soft robots and electronics
09:45 – 10:15	Carmine Ortix	Topology and transport in nanostructures with curved geometries
10:15 – 10:45	<i>COFFEE BREAK and Networking</i>	
10:45 – 11:30	Oleksandr Dobrovolskiy	3D nanoarchitectures for superconductivity and nanomagnetism
11:30 – 12:00	Paola Gentile	Geometrically driven effects in curved superconducting nanostructures
12:00 – 12:30	Volodymyr Kravchuk	Dynamics of magnetic skyrmions in curvilinear films
12:30 – 13:30	<i>LUNCH and Networking</i>	

Program (CET)

Thursday, 24 June 2021

13:30 – 14:15	Amalio Fernandez-Pacheco	A new platform for the experimental investigation of advanced three-dimensional geometrical effects in nanomagnetism
14:15 – 15:00	Claire Donnelly	Three-dimensional magnetic systems: from the bulk to patterned nanostructures
15:00 – 15:30	Attila Kakay	Spin-wave modes in curved 3D nanostructures
15:30 – 16:00	<i>COFFEE BREAK and Networking</i>	
16:00 – 16:45	Olena Gomonay	String model for antiferromagnetic domain wall: skyrmions and beyond
16:45 – 17:30	Oleg Tretiakov	Curvature effects on ferromagnetic materials and spin textures
17:30 – 18:00	<i>COFFEE BREAK and Networking</i>	
18:00 – 19:00	Michael Dickey	Liquid metals for soft and stretchable electronics

Program (CET)

Friday, 25 June 2021

08:30 – 09:15	Luisa Petti	Flexible electronics and sensorics based on low-cost and high throughput processes
09:15 – 10:00	Larysa Baraban	Flexible nanoscale biosensor devices
10:00 – 10:30	Yiwei Liu	Flexible magnetic sensitive materials and sensors
10:30 – 11:00	<i>COFFEE BREAK and Networking</i>	
11:00 – 11:45	Minjeong Ha	Micro/nano-materials based interactive wearables for human augmented reality
11:45 – 12:15	Yevhen Zabala	Multifunctional flexible sensor platform for motion control in robotics
12:15 – 12:45	Gaspare Varvaro	SAF-based perpendicular magnetized GMR spin valves on large-area flexible substrates
12:45 – 13:30	<i>LUNCH and Networking</i>	

Program (CET)

Friday, 25 June 2021

13:30 – 14:30	Poster talks	
14:30 – 15:30	Poster session	
15:30 – 16:00	<i>COFFEE BREAK and Networking</i>	
16:00 – 16:45	Avadh Saxena	Curvature effects in liquid crystal skyrmions
16:45 – 17:15	Gaetano Napoli	Nematic versus ferromagnetic shells: new insights in curvature-induced effects
17:15 – 17:30	<i>COFFEE BREAK</i>	
17:30 – 18:30	Elena Vedmedenko	Interlayer Dzyaloshinskii-Moriya Interactions

Program (CET)

Saturday, 26 June 2021

08:30 – 09:00	Anna Morozovska	Flexo-sensitive vortex-like polarization structures in nanoscale ferroelectrics
09:00 – 09:30	Alexander Edström	Curved magnetism in CrI₃
09:30 – 10:00	Justin Llandro	Intricate magnetic configuration of self-assembled 3D gyroid nanostructures
10:00 – 10 :30	Davide Peddis	Hollow nanostructures: a new playground for curvilinear magnetism
10:30 – 11:00	<i>COFFEE BREAK and Networking</i>	
11:00 – 11:45	Kostiantyn Yershov	Soft and reconfigurable magnetic systems
11:45 – 12:15	Fatih Zighem	Links between strain fields and magnetic properties in thin films and nanostructures
12:15 – 12:45	Vagson L. Carvalho-Santos	Curvature-induced emergence of a second critical field for domain wall dynamics in bent nanostripes
12:45 – 13:15	Anastasiia Korniienko	The effect of curvature on eigenexcitations of magnetic skyrmion
13:15	Scientific organizers	Poster prize announcement Closing remarks