

Program

Sunday, 26 January 2020

16:00 – 21:00	Registration	
17:00 – 18:00	<i>COFFEE AND CAKE in the front of the lecture hall</i>	
18:00 – 18:15	Scientific organizers	Welcome
18:15 – 19:00	Kai Liu	Magneto-ionic control of heterostructures and interfaces
19:00 – 19:45	Horst Hahn	Controlling magnetism by electrochemical approaches
20:00	<i>BUFFET SUPPER and get-together</i>	

Monday, 27 January 2020

08:00	<i>BREAKFAST</i>	
09:00 – 09:45	Liza Herrera Diez	Ionic control of the Dzyaloshinskii Moriya Interaction through electric fields and ion irradiation
09:45 – 10:30	Geoffrey Beach	Magneto-ionic control of magnetism
10:30 – 10:50	<i>COFFEE BREAK</i>	

Program

Monday, 27 January 2020

10:50 – 11:35	Philippe Allongue	Electrochemical voltage control of the magnetism of ultrathin films
11:35 – 12:20	Motohiro Suzuki	Probing the microscopic mechanism of voltage-controlled magnetic anisotropy with X-ray absorption spectroscopy
12:20 – 12:40	Jonas Zehner	Magneto-ionic control of magnetic hysteresis, domains and exchange bias in FeO_x/Fe layers
12:45	<i>LUNCH</i>	
14:30 – 15:15	Roland Würschum	In-situ SQUID studies of electrochemically induced phenomena: Operando diagnosis of battery cathode charging and switching the magnetism of nanoporous alloys
15:15 – 16:00	Aliona Nicolenco	Magnetoelectric effects in nanoporous alloys and semiconductors
16:00 – 16:20	Xinglong Ye	Voltage-driven giant modulation of magnetism in bulk metallic ferromagnets by hydrogen atoms
16:20 – 19:00	Poster Session with poster minutes and COFFEE	
19:00	<i>DINNER</i>	

Program

Tuesday, 28 January 2020

08:00	<i>BREAKFAST</i>	
09:00 – 09:45	Dustin Gilbert	Controlling magnetic perovskites by ex-situ design of oxygen distributions
09:45 – 10:30	Chris Leighton	Electrolyte-gate-controlled ferromagnetism in perovskite oxides
10:30 – 10:50	Jeff Walter	Electrically-induced ferromagnetism in diamagnetic FeS₂
10:50 – 11:15	<i>COFFEE BREAK</i>	
11:15 – 12:00	Regina Dittmann	Monitoring ionic movement in memristive oxide thin film devices by operando spectroscopy
12:00 – 12:45	Marjana Ležaić	Oxygen-deficient hafnia as a physicist's playground: efficient ReRAM material & binary ferroelectric
12:45 – 12:55	Conference photo (in the front of the lecture hall)	
13:00	<i>LUNCH</i>	

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Tuesday, 28 January 2020

14:00 – 16:00 **Excursion**

16:30 – 17:15 Jörg Weißmüller **Electro-chemo-mechanical coupling in high surface area materials**

17:15 – 17:35 Markus Gößler **Magneto-ionic switching of superparamagnetism**

17:35 – 18:00 *COFFEE BREAK*

18:00 – 18:45 Sarah H. Tolbert **Solution processed nanoporous and nanocrystal based magnetoelectric materials**

18:45 – 19:05 Martin Nichterwitz **Voltage-controlled ON switching and manipulation of magnetization via the redox transformation of beta-FeOOH nanoplatelets**

19:30 *HERAEUS DINNER*
(social event with cold & warm buffet with complimentary drinks)
and **Poster Prize**

Program

Wednesday, 29 January 2020

08:00	<i>BREAKFAST</i>	
09:00 – 09:45	Judith Driscoll	Electric field control of magnetism at room temperature in multiferroic nanocomposite films without external magnetic field application
09:45 – 10:30	Kornelius Nielsch	Ferromagnetic 3D nano- and microstructures by atomic layer deposition
10:30 – 10:50	Julius De Rojas	Role of the electrical properties of substrates in the magneto-ionic behavior of Co_3O_4 thin films
10:50 – 11:15	<i>COFFEE BREAK</i>	
11:15 – 12:30	Round table discussion and closing remarks	
12:30	<i>LUNCH</i>	

End of the seminar and departure

NO DINNER for participants leaving on Thursday morning