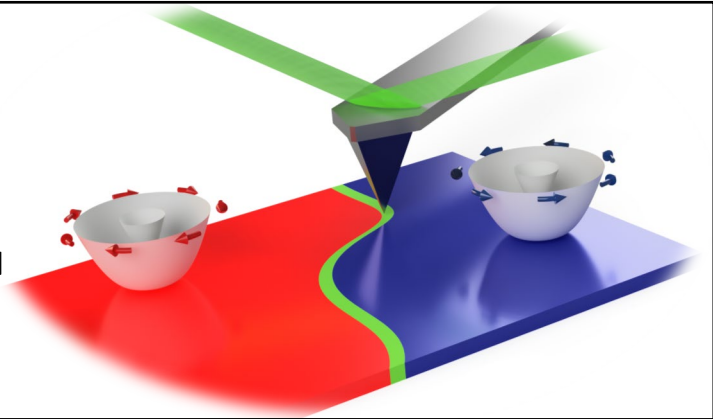


ECOS

INTERNATIONAL WORKSHOP ON ELECTRIC CONTROL OF SPIN TRANSPORT AND SPIN TO CHARGE INTERCONVERSION

January 22-23, 2020, Aula Magna of
Politecnico di Milano, Milan, Italy



January 22

13:30	Registration
14:00	Welcome and introduction
14:15	Laurent Vila (CEA, Grenoble) <i>Spin to charge conversion: beyond the case of metals</i>
14:45	Manuel Bibes (CNRS Thales, Paris) <i>Spin-charge interconversion in $\text{LaAlO}_3/\text{SrTiO}_3$ two-dimensional electron gases</i>
15:15	Pietro Gambardella (ETH, Zurich) <i>Coupling and switching nanomagnets by the spin-orbit interaction</i>
15:45	coffee break
16:30	Christian Rinaldi (PoliMi, Milano) <i>Room-temperature, non-volatile electric control of spin in the ferroelectric semiconductor GeTe</i>
17:00	Can Onur Avci (ETH, Zurich) <i>Current-induced control of magnetization in conducting and insulating magnets</i>
17:30	Juan Francisco Sierra García (ICN2, Barcelona) <i>Spin-charge interconversion in van der Waals heterostructures</i>
20:00	Social dinner for the speakers

January 23

09:00	Gaspere Varvaro (CNR-IMM, Roma) <i>Can spintronics go flexible? An example based on GMRs</i>
9:30	Fabio Miletto Granozio (CNR-SPIN, Napoli) <i>Self-formed $\text{LaAlO}_3/\text{SrTiO}_3$ micro-membranes hosting a 2D electron gas</i>
10:00	Silvia Tacchi (CNR-IOM, Perugia) <i>Brillouin light scattering and its application in the study of the interfacial DMI</i>
10:30	Joao Godhino (Institute of Physics FZU, Prague) <i>Current polarity dependent switching of AFM domains observed by local anisotropic magnetothermopower</i>
11:00	Coffee break
11:30	Jakub Zelezny (Institute of Physics FZU, Prague) <i>Spin current calculations in nonmagnetic and magnetic materials</i>
12:00	Stefano Sanvito (Trinity College - CRANN, Dublin) <i>Multi-scale modelling of current-induced spin dynamics</i>
12:30	Domenico Di Sante (Universitaet Wuerzburg) <i>Robust spin-polarized midgap states at step edges of topological crystalline insulators</i>
13:00	Lunch
14:00	Silvia Picozzi (CNR-SPIN, Chieti) <i>Interplay between spin and dipolar degrees of freedom</i>
14:30	Josep Fontcuberta (ICMAB, Barcelona) <i>Complex phenomena at metal-ferromagnetic insulator oxides interfaces</i>
15:00	Ignasi Fina (ICMAB, Barcelona) <i>Ferroelectric $(\text{HfZr})\text{O}_2$ films. Growth, polarization and electroresistance</i>
15:30	Carlo Zucchetti (PoliMi, Milano) <i>Spin transport and spin-charge interconversion in Ge-based structures</i>
16:00	Fabio Pezzoli (UniMiB, Milano) <i>Spin-orbit phenomena in group IV heterostructures</i>
16:30	Final remarks and closure

No registration fee is required.

Organizer: Dr. Christian Rinaldi
Co-organizers: Profs. Matteo Cantoni and Riccardo Bertacco
Secretariat: Drs. Sara Chiodaroli and Alice Meroni
Support: Simone Petrò, Alessandro Novati

PRIN TWEET (2019-2022)



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