

POSTER LIST

SESSION I-MONDAY SEPTEMBER 25th 18.30-20.30

•P1-Spin-filtering in graphene junctions with Ti and Co adsorbates

Simona Achilli, F. Cargnoni, D. Ceresoli, R. Soave, M. I. Trioni

•P2-Strong spin-orbit coupling driven magnetic anisotropy and interactions

Sergey Artyukhin, Louis Ponet Eric Bousquet

•P3-Spin-orbit semimetal SrIrO₃ in the two-dimensional limit

Carmine Autieri, D. J. Groenendijk, J. Girovsky, M. Carmen Martinez-Velarte, N. Manca, G. Mattoni, A. M. R. V. L. Monteiro, N. Gauqueli, A. F. Otte, M. Gabay, S. Picozzi, and A. D. Caviglia

•P4-Magnetocrystalline anisotropy in antiferromagnetic systems interfaced with high SOC materials

Carmine Autieri, M. Cantoni, C. Rinaldi, M. Asa, A. Stroppa and S. Picozzi

•P5-Oscillation of magnetic anisotropy in Co/Rh(001) system : spin orbit coupling versus standing waves

Nadjib Baadji, Khaled Fakani and Abdelmadjid Boussendel

•P6-Ferromagnetism in graphene due to heteroatom doping: insights from experiment and electronic-structure calculations

Piotr Blonski, Jiri Tucek, Michal Otyepka, Radek Zboril, Zdenek Sofer and Martin Pumera

•P7-Spin transport effects in the presence of SOC active interfaces

Juan Borge de Prada, A. Droghetti, I. Tokatly and A. Rubio

•P8-Antiferromagnetic junctions: the model case of Cr wires

Marco Bragato, Matteo Cantoni, Simona Achilli, Fausto Cargnoni, Davide Ceresoli, Raffaella Soave and Mario Italo Trioni

•P9-Transport properties of antiferromagnetic chiral textures

Patrick M. Buhl, Frank Freimuth, Stefan Blügel and Yuriy Mokrousov

•P10-Calculation of the Dzyaloshinskii-Moriya interaction in a real space method

Ramon Cardias, M. M. Bezerra-Neto, M. S. Ribeiro, A. Bergman, A. Szilva, A. B. Klautau, L. Nordström and O. Eriksson

•P11-Tailoring topological states in silicene using different halogen-passivated Si(111) substrates

Davide Ceresoli, Vahid Derakhshan and Ali G. Moghaddam

•P12-Electronic and magnetic properties of low dimensional spin system Co₂TeO₃Cl₂

Jayita Chakraborty

•P13-Origin of the spin reorientation transitions in antiferromagnetic MnPt-based alloys

Po-Hao Chang, Kirill Belashchenko

•P14-Topological Gapless Phases in Non-Symmorphic Antiferromagnets

Mario Cuoco, Wojciech Brzezicki

•P15-Robust spin-polarized midgap states at step edges of topological crystalline insulators

Domenico Di Sante, Paolo Sessi, Martin Greiter, Titus Neupert, Giorgio Sangiovanni, Tomasz Story, Ronny Thomale and Matthias Bode

•P16-Engineering large and reversible Rashba spin-splitting in layered W-based perovskite-type oxides

Hania Djani, A. C. Garcia-Castro , Eric Bousquet , Silvia Picozzi , Philippe Ghosez

•P17-Ferroelectric rashba semiconductor half-heusler compounds

Mostefa Djermouni, Nawel Benayad, Ali Zaoui

•P18-Spin-transfer torque in Co/Graphene/Co vertical heterostructures: A route toward magnetic memories with low write energy and ultrahigh magnetoresistance

Kapildeb Dolui, Po-Hao Chang , Farzad Mahfouzi, Troels Markussen, Kurt Stokbro, and Branislav K. Nikolic

•P19-Influence of the surface reconstruction on magnetic interactions in an Fe double-layer on Ir(111)

Melanie Dupé, Stefan Heinze, Jairo Sinova, and Bertrand Dupé

•P20-Spin-phonon coupling in the non-linear phononic limit: The effect of non-linear phononics on magnetic structure and dynamics

Michael Fechner, A. Sukhov, L. Chotorlishvili, C. Kenel, J. Berakdar and N. A. Spaldin

•P21-Spin-split indirect-bands in halide perovskites

Jarvist Moore Frost, Pooya Azarhoosh, Scott McKechnie, Mark van Schilfgaarde, Aron Walsh

•P22-Magnetic Dirac Fermions and Chern Insulator Supported on Pristine Silicon Surface

Huixia Fu, Zheng Liu, Jia-Tao Sun, Sheng Meng

•P23-Spin orbital singlet state in $\text{Sr}_3\text{CaIr}_2\text{O}_9$: Insight from first principle calculations

Nirmal Ganguli, Jayita Chakraborty, Maria Daghofer

•P24-Spin-valley properties and quantum spin Hall effect in hydrofluorinated bismuth nanosheet

Heng Gao, Shunbo Hu, Wei Wu, Alessandro Stroppa, Wei Ren

•P25-Spin-texture induced by oxygen vacancies in Strontium perovskite (001) surfaces: A theoretical comparison between SrTiO_3 and SrHfO_3

Andres Camilo Garcia Castro, M. G. Vergniory, E. Bousquet, and A. H. Romero

•P26-Berry Phase contributions to the anomalous Hall effect in the chiral helimagnet MnP

Jacob Gayles, Yan Sun, Lukas Muelcher, Binghai Yan, and Claudia Felser

•P27-Electric-Magneto-Optical Kerr Effect in a Hybrid Organic–Inorganic Perovskite

Alessandro Stroppa, Feng-Ren Fan, Hua Wu, Dmitrii Nabok, Shunbo Hu, Wei Ren, Claudia Draxl

•P28-Spin-orbit coupling in heavy transition-metal oxides with tetrahedral coordination

Delia Guerra, Filomena Forte, Adolfo Avella, Carmine Autieri, Alfonso Romano, Canio Noce

•P29-Temperature dependent spin-transport at ferromagnetic|nonmagnetic interfaces: a first-principles study for Py|Pt

Kriti Gupta, R. J. H. Wesselink, Z. Yuan and P.J. Kelly

•P30-Spin diffusion in transition metals as a function of temperature

Kriti Gupta, E. Barati, R. S. Nair, P.J. Kelly

•P31-Emergent Orbitronics and Dissipationless Magnetization Control in Complex Magnets

Jan-Philipp Hanke, Dongwook Go, Patrick M. Buhl, Frank Freimuth, Stefan Blügel, Yuriy Mokrousov

•P32-Dipole Order in Halide Perovskites Polarization and Rashba Band Splittings

Shunbo Hu, Heng Gao, Heng Gao, Yuting Qi, Yongxue Tao, Yongle Li, Jeffrey R.

Reimers, M. Bokdam, C. Franchini, D. Di Sante, Alessandro Stroppa, Wei Ren

•P33-Chiral anomaly and negative longitudinal magnetoresistance in Weyl semimetals within a Boltzmann approach

Annika Johansson, Jürgen Henk and Ingrid Mertig

•P34-Natural Circular Dichroism in X-ray region and Parity Mixing

Hiroshi Katsumoto, Hitoshi Fujii, Tamio Oguchi

•P35-Anisotropy of the spin-fluctuations and impact of spin-orbit coupling effect on the symmetry of the order parameter in the unconventional Sr₂RuO₄ superconductor

Sergii Khmelevskyi, B. Kim , C. Franchini, I. Mazin, D. F. Agterberg