Contribution ID: 16 Type: Oral

TUNABLE SPIN PUMPING INTO METALLIC LEADS

Spin pumping, a method of generating a spin current from a magnetic material into an adjacent non-magnetic metal, can be considered as a spintronic analog of a battery in conventional electronics. In this work, we discuss how spin-polarized charge flow into normal and superconducting wires can be realized and controlled using a three-arm quantum beam splitter.

Primary author: Prof. BELOGOLOVSKII, Mikhail (Vasyl' Stus Donetsk National University)

Co-authors: Dr ZHITLUKHINA, Elena (O.O. Galkin Donetsk Institute for Physics and Engineering); Dr TKACHENKO, Vera (Vasyl' Stus Donetsk National University); Prof. SEIDEL, Paul (Institut für Festkörperphysik, Friedrich-Schiller-Universität Jena)

Presenter: Prof. BELOGOLOVSKII, Mikhail (Vasyl' Stus Donetsk National University)

Track Classification: Physics of Magnetism