

## Maciej Zgirski

Leader of the CoolPhon Group at MAGTOP at the Institute of Physics, Polish Academy of Sciences (IF PAN) - <http://coolphongroup.ifpan.edu.pl/>

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### Short CV:

**Maciej Zgirski** (born 1979) graduated from the Faculty of Physics of Warsaw University of Technology in 2003. Defended his PhD in the field of the experimental low temperature mesoscopic physics at the University of Jyväskylä, Finland in 2008. In years 2008-2010 he joined Quantronics Group (CEA) in Saclay, France as a PostDoc. Since end of 2010 employed at the Institute of Physics, PAN in Warsaw. Since 06/2024 professor at the **International Centre for Interfacing Magnetism and Superconductivity with Topological Matter** (MAGTOP) at the Institute of Physics.

Received habilitation in 2022 for **the creation of the pioneering time-resolved low-temperature thermometry and its application for the experimental investigation of the dynamical thermal processes at the nanoscale.**

Specializing in thermodynamics of nanostructures with the emphasis on the fast thermometry based on the various types of superconducting Josephson junctions. Another his expertise involves building novel-concept superconducting devices based on manipulating just a single superconducting vortex. The experimental approaches, sample designs, and measuring protocols used in the CoolPhon Group are of pioneering character, and create a backbone for new applications in the field of applied mesoscopic superconductivity.

