

1	CEIPEX RESEARCH TOPIC LEVEL2: nanomagnetism & spintronics
2	RESEARCH GROUP: Nanomagnetism and Spintronics (V. Uhlíř)
3	<p>TOPICS/FOCUS:</p> <p>A) In situ magneto-ionic control of antiferromagnetic/ferromagnetic interfaces</p> <p>B) Magnetic actuation platforms for biological environments</p>
4	<p>SUMMARY:</p> <p>A) Study how electric fields or ion migration reshape magnetic order in thin films, using advanced electron microscopy. The goal is to directly watch magnetic domain walls and/or phase changes as they happen, linking atomic-scale mechanisms to device-scale functionality.</p> <p>B) Design magnetic micro- and nanostructures that can be remotely controlled by external magnetic fields to actively influence biological systems. These platforms would deliver mechanical forces or trigger local electrical responses inside cells or tissues, enabling new modes of stimulation and therapeutic intervention.</p>
5	RG WEBPAGE/CONTACT: https://www.ceitec.eu/nanomagnetism-and-spintronics/rg261