

UNIVERSITY OF CYPRUS (UCY)

<https://www.ucy.ac.cy>

General

The University of Cyprus, a relatively new university founded in 1989, has around 200 faculty members, ~ 4000 undergraduate and ~ 500 postgraduate students. The group participating in NANOMAG involves 5 people under the Department of Chemistry which is very new, functioning independently since 2000, having thirteen faculty members and about 125 undergraduate and 50 graduate students. The Department offers major, MS and PhD and has a high potential demonstrating more than 250 papers in peer-reviewed journals, two international patents and more than 8 millions € of funds over the last ten years. The group involved in the project is internationally recognized in the area of synthesis and detailed magnetic and structural characterization of new high nuclearity metal clusters combining a large ground spin state with a large and negative magnetoanisotropy for single molecule magnets. The group has participated in two international projects, collaborates with labs in Europe and USA and has organized two international workshops.

Infrastructure

The available facilities include characterization techniques such as NMR 300 and 500 MHz, dual source Single-Crystal XRD, powder XRD, C,H,N and complete chemical synthetic labs.

Then role of UoC group in the consortium will be to train people in the synthesis and detailed magnetic and structural characterization of metal clusters for use in molecular magnets and to exchange expertise and contribute to the (i) Synthesis of molecule/organic-based-magnets and (ii) fabrication of prototype spintronic devices.

Key scientists

Ass.Prof.A. Tasiopoulos (Head of UCYPR group) high nuclearity metal clusters for molecular magnets, Ass. Prof. I. Giapintzakis thin films by Matrix Assisted Pulsed Laser Evaporation for spintronics, Ass. Prof. A. Keramidas synthesis and characterization of oligonuclear complexes, 2PhD students