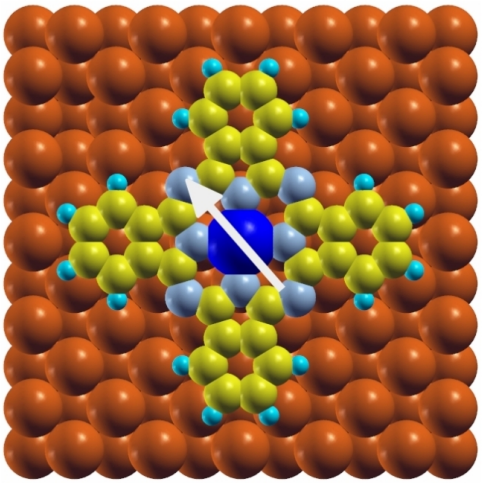
Theoretical Methods in Molecular Spintronics (TMspin)



Ira. 17 - Ira. 20 2018

Kod. Z07-18

Mod.:
Aurrez aurrekoa

Edizioa
2018

Jarduera mota
Workshop

Data
Ira. 17 - Ira. 20 2018

Kokalekua
Materialen Fisika Zentroa (CSIC-UPV/EHU)

Hizkuntzak
Ingelesa

Balio akademikoa
40 ordu

Antolakuntza Batzordea

Azalpena

Magnetic molecules and atoms studied by scanning probe microscope experiments and molecular transistors represent ideal systems to address the very foundations of the quantum theory of magnetism. The proposed workshop will gather both physicists and chemists to question what electronic structure theory to use for such systems. Hence, the most recent developments in *ab-initio* methods will be presented with a special focus on those that could describe correlation effects, excitations and complex structural details on equal footing.

Organizing committee:

Andrea Droghetti, Universidad del País Vasco, Donostia-San Sebastian (chair)

Ivan Rungger, National Physical Laboratory, Teddington, UK

Tim Wehling, University of Bremen, Bremen, Germany

Helburuak

The workshop aims at advancing electronic structure theory in order to accurately describe.

Magnetic properties of molecules in the gas phase, in particular spin state energetics and exchange coupling between several magnetic centres.

Magnetic properties of atoms and molecules on surfaces, in particular the Kondo effect and the surface mediated exchange-coupling between adsorbed atoms.

Finite-bias transport and magnetic excitations at the atomic scale.

Description of entangled states from first principle and application to quantum computation in magnetic molecules and atoms.

Ikastaroaren laguntzaile espezifikoak

Zuzendaritza

Andrea Droghetti

Matrikula prezioak

REGISTRATION FEES	2018-09-20 ARTE
INVITED SPEAKER / ORGANIZER	0 EUR
REGULAR FEE	350,00 EUR

Kokalekua

Materialen Fisika Zentroa (CSIC-UPV/EHU)

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Gipuzkoa