



INSTITUTO UNIVERSITARIO  
DE INVESTIGACIÓN EN  
NANOCIENCIA DE ARAGÓN

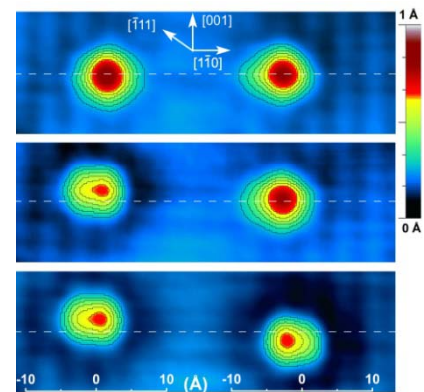


# PhD position

Instituto de Nanociencia de Aragón (INA)

## ATOMIC SCALE ENGINEERING OF SPIN STRUCTURES

bound to the BIGNSPIN (*'Bismuth and Graphene Nanostructures for SPINtronic's'*) project. The research will deal with fundamental aspects of the magnetism of single atoms and low dimensional nanostructures. It will be performed using low temperature STM and epitaxial growth among other techniques. The INA provides a comfortable atmosphere for Science and teaching, scientific collaboration with other members of the institute, and numerous experimental methods to carry out leading research activities (more information at <http://ina.unizar.es/index.php>). Previous experience with scanning probe methods and/or solid state magnetism is desirable. Good knowledge of the English language is expected.



Single Co atom bits switching the spin state in a controllable manner (from top to bottom: up-up, down-up, down-down)

Grant conditions: 1150 €/month, International collaborations, Master fees will be supported

Applications including CV and a statement of scientific interests must be submitted by email.

Contact: Dr. David Serrate ([serrate@unizar.es](mailto:serrate@unizar.es))

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