

COMPLEX MATERIALS:

# MAGNETIC AND ELECTRIC

## CHARACTERIZATION AT LOW TEMPERATURES

**9:15 h**

*Welcome and introduction*

**9:30 h**

*DC and AC magnetometers: From basic principles to real examples*

*Mr. Bernat Bozzo (Magnetometry and Low Temperatures Laboratory ICMAB-CSIC)*

**10:30 h**

*Torque magnetometry and ac-susceptibility techniques*

*Prof. Vassil Skumryev (ICREA - UAB)*

**11:30 – 12:00 Coffe break**

**12:00h**

*Tecnologías avanzadas de recuperación, licuefacción, almacenamiento y transporte de He*

*Prof. Conrado Rillo.*

*(Instituto de Ciencia de Materiales de Aragón-CSIC)*

**13:00 h**

*MicroHall magnetometry, an example of implementation of new techniques by taking advantage of the PPMS – Quantum Design platform*

*Dr. Agustín Camón. (Instituto de Ciencia de Materiales de Aragón-CSIC)*

**14:00 – 15:30 h**

**Lunch**

*(not included)*

**15:30 h**

*Dielectric, ferroelectric and magnetoelectric characterization at low temperature*

*Dr. Ignasi Fina (Max Planck Institute of Microstructure Physics, Halle)*

**16:30 h**

*Characterization of superconducting materials by transport measurements and inductive techniques.*

*Dr. Anna Palau (ICMAB-CSIC)*

**17:30h**

*Characterization of magnetic nanoparticles*

*Prof. Amilcar Labarta. (Depto. de Física Fundamental, U. de Barcelona)*

**18:30 h**

*Visit to the ICMAB Magnetometry and Low Temperatures Laboratory*

**25<sup>TH</sup>  
NOVEMBER  
2013**

**SALA D'ACTES ICMAB  
INSTITUT DE CIÈNCIA DE  
MATERIALS DE BARCELONA (CSIC)  
CAMPUS UAB, BELLATERRA**

**INSCRIPTION: [www.icmab.es/jmec2013](http://www.icmab.es/jmec2013)**

 **ICMAB**  
INSTITUT DE CIÈNCIA DE MATERIALS DE BARCELONA

 **CSIC**  
CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS