Max-Planck-Institut für Struktur und Dynamik der Materie

Max Planck Institute for the Structure and Dynamics of Matter

April 17th 2014 – 15:00

CFEL Seminar rooms I,II,III (Bldg. 99)

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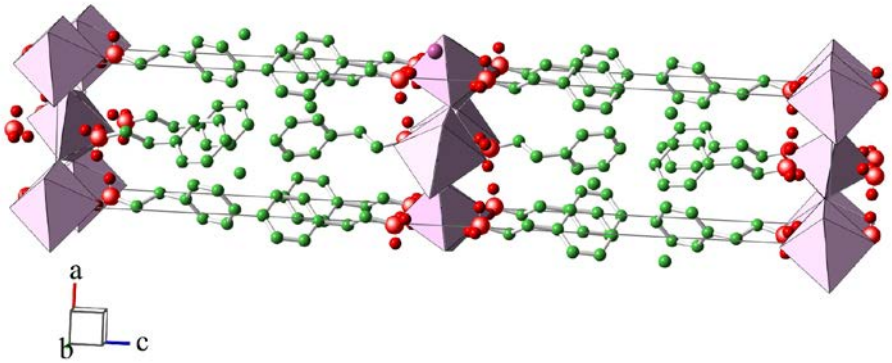
Layered organic/inorganic hybrids: Magnetism and dynamics



Organic/inorganic hybrid systems form a large class of materials which combine the robust electronic properties of inorganic materials with the versatility of organic matter. In this presentation I will highlight some of the recent results obtained on ferromagnetic layered Cu-hybrids. These materials are prototypical examples of two-dimensional ferromagnetic systems which exhibit multiferroic behavior. Topics to be addressed are the 2 dimensional quantum magnetic nature of the materials, the ultrafast energy transport between the organic and inorganic constituents, and the optical manipulation of the magnetic anisotropy which leads to an optically enhanced magnetization.

Host: Andrea Cavalleri

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