



PHYSIKALISCHES KOLLOQUIUM

des Fachbereichs Physik
der Johann Wolfgang Goethe-Universität Frankfurt

Mittwoch, den 13.01.2016, 16 Uhr c.t.
Großer Hörsaal, Raum _0.111,
Max-von-Laue-Str. 1



Prof. Stephen J. Blundell

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"Can you build superconductors with molecular bricks?"

Though biology is built using molecules, most materials studied in condensed matter physics are crystals made up of atomic building blocks. When even elemental silicon has numerous complications, physicists prefer to avoid chemical complexity. In this talk, I will explain that many interesting magnetic and superconducting materials can be constructed using molecular components to build up novel and unusual architectures. This approach provides an exciting opportunity for exploring the physics of magnetism and superconductivity. The dream is that gaining control of the building blocks of magnetic materials and thereby achieving particular characteristics will make possible the design and growth of bespoke magnetic and superconducting materials.

Die Dozenten der Physik

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