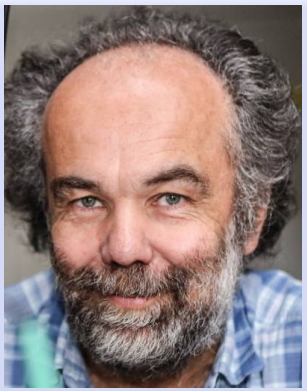
Leipzig Spin Resonance Colloquium

June 9th, 2021 – 16:00 Leipzig time – on Zoom



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Hybrid magnetic resonance of individual spins in diamond NV centers

Magnetic resonance is generally acknowledged for its universality and its high information content. One of the main limitations is its limited sensitivity, although this has improved greatly over time, reaching the ultimate limit with experiments on individual spins - electronic as well as nuclear ones. The systems that allow such experiments include molecular as well as inorganic systems. A particularly popular case is the nitrogen-vacancy (NV) center in diamond, which consists of an electronic spin S=1 and nuclear spins ^{14}N and ^{13}C. This system has interesting properties for many applications in emerging quantum technologies like sensing, communication and information processing. In addition, the interactions between the spins also allow detailed studies of fundamental effects of magnetic resonance, such as enhanced nuclear magnetism or nonlinear dynamics.

June 9th, 2021 - 16:00 CEST (Berlin) - 22:00 CST (Peking) - 07:00 PST (San Francisco) - 10:00 EST (New York)

Zoom: https://uni-leipzig.zoom.us/my/lsrcolloquium **For Zoom passcode register at:** https://bloch.physgeo.uni-leipzig.de/amr/lsr-colloquium