

# Condensed Matter Theory Seminar

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## Electrical control of quantum spins

The canonical means of controlling quantum spins in condensed matter is using magnetic fields via the Zeeman interaction. However, under the right circumstances, spins can also be manipulated using electric fields, opening a range of scientific and technological possibilities. I will explain how to measure this effect, and present some of our results from a range of systems exhibiting spin-electric couplings, including paramagnetic defects in piezoelectrics and ferroelectrics, magnetic atoms on surfaces, and molecular magnets.

**Thursday, 10.06.2021, 14:15 Uhr**  
**online/zoom**