



# TRR 80 Sonderseminar

Am Mittwoch, den 5. November um 16:45 Uhr

spricht

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über das Thema

## ***Spin-Waves and Exchange Interactions in Multiferroic Materials***

Multiferroics, which combine two or more (anti-)ferroic order parameters in one compound, have excited much interest both for the novel physics arising from the coupling between different orderings, and for the many possible device applications. In this presentation, I will focus on the spin wave measurements of the magneto-electric multiferroic materials,  $\text{BiFeO}_3$ ,  $\text{LuMnO}_3$  and  $\text{CuFeO}_2$ , from which the detailed magnetic exchange interactions were deduced. Combined with knowledge of the crystal structure, and especially of the polar and other distortions in these materials, we can gain insight into the microscopic coupling mechanisms between the magnetism and structure in these materials.

Gäste sind herzlich willkommen.

Der Vortrag findet im Seminarraum Eingangsgebäude FRM II ("Glaspalast"),  
TU München, Garching

Gastgeber: Dr. Astrid Schneidewind  
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