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**Hysteresis Design of Magnetic Materials for Efficient Energy Conversion**

**Tuesday, 12 Jan 2021, 9:00 s.t., UDE, Zoom**



**Prof. Zi-An Li**

**Institute of Physics,**

**Chinese Academy of Sciences**

## **Development and Applications of Time-resolved Transmission Electron Microscopy for Magnetization Dynamics**

### **About the speaker:**

Zi-An Li received his jointed M. Sc and Ph. D degrees in Condensed Matter Physics from the Institute of Physics, Chinese Academy of Sciences, Beijing China in May, 2008. During that period, he used a range of TEM techniques to study structure-property correlations of functional materials, particularly the multiferroic materials. In June, 2008 he worked as a postdoc in the Experimental physics of AG Farle at University of Duisburg-Essen, Germany, where he applied advanced TEM techniques (exit-wave reconstruction and 3D electron tomography) to characterize magnetic nanostructures. From 2013 to 2016, he joined a second group in Forschungszentrum Jülich, Germany as a visiting scientist, where he delved into the TEM-based magnetic imaging techniques of Lorentz microscopy and electron holography for studying topological helimagnets. In September, 2016, he joined the Institute of Physics, Chinese Academy of Sciences as an Associate Professor. Currently, he is working in the ultrafast electron microscopy group, where he is responsible for the instrumentation and methodology development of time-resolved ultrafast TEM and its applications in materials science.

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