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**UNIVERSITÄT
BERN**

Seminar über Microwave Physics and Atmospheric Physics

Referent/in: Dr. Arne Schröder, ABB Power Grids Research, Baden, Switzerland

Titel: Electromagnetic Compatibility in Power Electronic Systems

This talk gives an introduction to industrial research on electromagnetic compatibility (EMC) in power electronic systems. After reviewing the fundamentals of power electronics, we will focus on associated electromagnetic issues and fundamental EMC mitigation concepts. Taking ABBs HVDC (high voltage direct current) substations as an example, numerical and experimental assessment and design are outlined. We will illustrate research challenges concerning large and complex HVDC systems and discuss EMC-related challenges arising from future technologies.

Zeit: Freitag, 13.12.2019, 10:15 Uhr

Ort: **Hörsaal A97**, Gebäude Exakte Wissenschaften, Sidlerstrasse 5, Bern, Schweiz