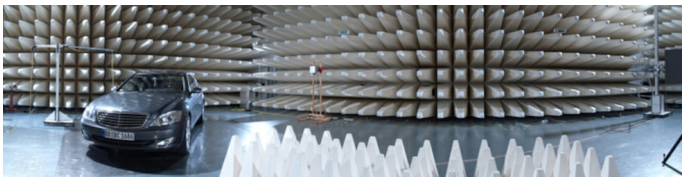
OTTO VON GUERICKE UNIVERSITÄT MAGDEBURG

CHAIR OF ELECTROMAGNETIC COMPATIBILITY



Research

The **analysis** of complex systems and **development** of new methods of measurement to guarantee and evaluate all aspecs **EMC** are the general fields of research of the chair.

The following overview provides an insight into the research foci of the chair.

EMC-Analysis und Modelling of Complex Systems

- Analysis of coupling of EM-fields into systems und cable structures
- Modeling of in-system-coupling
- Coupling into components

EMC-Measurement

- Application of reverberation chambers
- Stochastic modeling of devices
- Requirements on measurements above 1 GHz

Development of new EMC-Standards

- In situ measurements for large objects
- Device monitoring for EMC measurements
- Stochastic modelling and testing of EMC of complex systems

Modelling of Power-Quality-Phenomena

- Voltage-dependent behaviour of non-linear equipment
- Interaction of harmonic sources

Secretariat

Janet Morscheck
Building 09 - Room 226

Tel.: 0391-67-58868
Fax: 0391-67-41236
janet.morscheck@ovgu.de

Chairholder

Prof. Dr.-Ing. Ralf Vick
Building 09 - Room 227
Tel.: 0391 67-58498
Fax: 0391 67-11236
ralf.vick@ovgu.de
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