

Chair of Theoretical Information Technology (LTI)

Staff

- 1 Professor
- 2 guest Professors
- 4 postdoctoral Researchers
- 8 PhD Students
- 3 non-scientific Members

Background

- 1998 – 2011 Director of the Fraunhofer Institute for Telecommunications, Heinrich Hertz Institute, HHI
- 2000 – 2010 Professor for Mobile Communications at TU Berlin
- 2010 Foundation of LTI at the TU München

Research Partners

- Industry: BMW, Nokia, Diebold Nixdorf
- Deutsche Forschungsgemeinschaft (DFG)
- Federal Ministries: BMBF

LTI – Research Profile

Physical Layer Security

- PUF based Authentication
- Secure Message and Key Transmission over Channels
- Security Analysis and Security Proofs for Communication Protocols

Quantum Communications

- Entanglement Distillation
- Entanglement Transmission over Quantum Channels
- Quantum Key Distillation
- Foundation of Quantum Computing

Wireless Communications

- Robust Transmission for V2X Communication under Jamming Attacks
- Optimal Physical Layer Protocols for 5G Applications
- Sampling Methods for Wireless Communications

