Chair of Communications Engineering
TUM Department of Electrical and Computer Engineering
Technical University of Munich

Seminar

Quantum Identification (Intro.)

Understanding of the following and present them

1. **Quantum** and **classical** channel (similarities and differences)
2. **Classical** message identification
3. **Quantum** message identification

Student should study and touch the following paper:

1. Winter, A., 2004. Quantum and Classical Message Identification via Quantum Channels. arXiv preprint quant-ph/0401060

2. Winter, A., 2013. Identification via Quantum Channels. In Information Theory, Combinatorics, and Search Theory (pp. 217-233). Springer, Berlin, Heidelberg

In particular, non-classic features like **superposition** and **entanglement** are understood.

Prerequisites

Basics of

1. Information Theory
2. Identification Theory
3. Quantum Theory

Contact

Interested students please contact me directly and send me a cv and transcripts of Bsc and Msc both.

Advisors

Mohammad Salariseddigh