



SFB/TRR 21 - Seminar

31. März 2011, Ulm

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### **Optimizing Gaussian communication for hybrid quantum repeater**

Quantum repeater schemes are a necessity for entanglement distribution in long distance quantum communication. I shall present a version of a hybrid quantum repeater, which optimized for Gaussian states and measurements, achieves high fidelities and modest probabilities of success despite realistic losses. Analytical analysis of rates obtained in an idealized case of perfect quantum memories will also be addressed.

**31. März 2011, 11:00 Uhr**

**Universität Ulm, Raum N25/H8  
Albert-Einstein-Allee 11, 89081 Ulm**



**CO.CO.MAT**

