

CO.CO.MAT CONTROL OF QUANTUM CORRELATIONS IN TAILORED MATTER SFB/TR 21 - STUTTGART, ULM, TÜBINGEN

Kolloquium

Dr. JianWei Pan

(Universität Heidelberg)

Future Challenge in Long-distance Quantum Communication

In this talk, I shall review the recent experimental progress in the field of quantum teleportation and quantum cryptography. The main difficulties in future large scale realization of quantum cummnication are photon loss and decoherence. To achieve long-distance quantum communication, I shall discuss in details how the combination of freespace quantum communication and quantum memory can provide a promising wayout.

Donnerstag, 16.02.2006, 17:15 Uhr Wann?

Wo?

Universität Stuttgart, Raum 2.136