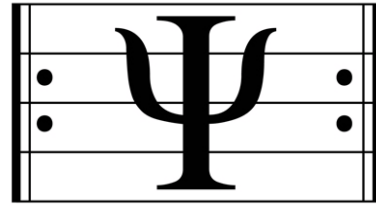


**Program** for the  
**Quantum Repeater Workshop**

Hannover, March 24/25 2011

(Version of March 23)



Thursday, March 24

9:00 Welcome & Announcements

9:15 **Reinhard Werner** (Hannover, QuORep): *Basic figures of merit for quantum information*

9:45 **Hans Briegel** (Innsbruck, IQOQI): *Repeaters*

10:30 Coffee

11:00 **Harald Weinfurter** (München, QuORep): *Photons and Traps*

11:30 **Christoph Marquardt** (Erlangen, QuORep): *Continuous variables and hybrid approaches*

12:00 **Tilman Pfau** (Stuttgart, QuORep): *Quantum devices based on the Rydberg blockade*

12:30 Lunch

14:00 **Nicolas Gisin** (GAP, Geneve): *The continuous dialog between applied and fundamental physics*

15:00 Coffee

15:30 **Gaby Lenhart** (ETSI): *Status of QKD in ETSI*

16:00 **Tommaso Calarco** (Ulm, QuORep): *Quantum repeaters in the research strategy of the EC and the US*

17:00 *General Discussion*

20:00 Conference Dinner at "XII Apostles"

Friday, March 25

9:00 **Manfred Bayer** (Dortmund, QuaHLRep): *Quantum repeater components based on semiconductors*

9:30 **Frank Jahnke** (Bremen, QuaHLRep): *Theory related to semiconductor quantum repeaters*

10:00 **Pavel Bushev** (Karlsruhe, QUIIMP): *Towards quantum interface with rare-earth spin ensembles*

10:30 Coffee

11:00 **Dagmar Bruss** (Düsseldorf, QuORep): *Security aspects of repeaters and QKD*

11:45 **Peter van Loock** (Erlangen, QuORep): *Quantum repeaters: continuous-variable and hybrid approaches.*

12:30 Lunch

14:00 *Theory Self-organization: Contributions*

15:00 Coffee

15:30 *Theory Self-organization: Discussion*

16:30 Close; Coffee; Departure