

30. QUANTUM NETWORKS

31. QUANTUM CHANNELS

- 31.10.+l Long distance photonic channel**
- 31.20.+t Quantum state transport in quantum chains and arrays**
- 31.25.+d Decoherence in quantum channels**
- 31.30.+c Characterization of quantum channels**
- 31.35.+i Dissipative quantum channels**
- 31.40.+d Entanglement distribution**
- 31.50.+m Quantum channel memory**
- 31.60.+n Non-photonic quantum channels**
- 31.70.+g Gaussian channels**
- 31.80.+b Bosonic channels**
- 31.90.+e Entangled channels**

32. QUANTUM REPEATERS

- 32.10.+c Communication over noisy channels**
- 32.20.+m Quantum memories/storage of qubits**
- 32.30.+s Entanglement swapping**
- 32.40.+p Realization of purification, concentration, and distillation in physical systems**
- 32.50.-c Quantum communication complexity**
- 32.50.Fp Quantum fingerprinting**
- 32.60.+s Small scale quantum processors**

33. QUBIT INTERFACES

- 33.10.+a Cavity QED (atoms or ions)**
- 33.20.+d Quantum dots**
- 33.30.+s SQUIDs**
- 33.40.+j Josephson junctions <-> ions**
- 33.45.+u Superconducting qubits <-> spins**
- 33.50.+n Nanomechanical resonators <-> quantum dots, superconducting qubits**
- 33.60.+a Atomic systems <-> mesoscopic conductors**
- 33.70.+o Optical systems <-> solid-state systems**
- 33.80.+m Atomic-ensemble quantum memory for light**
- 33.90.+e Entanglement between atoms and photons**

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