

## **Quantum Optics and Quantum Communications using Non-Gaussian States of Light**

During recent years, much progress has been achieved for generating non-Gaussian states of the light, such as Fock states, or optical “Schrödinger’s cat” states. Such states can be used for various quantum information protocols, including remote entanglement preparation, or quantum repeaters. We will review these recent developments, and discuss open perspectives for quantum information processing and communications.

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**Classification de thématique:** Introduction: the nature of light