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## Schrödinger cats in quantum optics (I)

*Tuesday, 12 June 2018 15:30 (30 minutes)*

Superpositions of macroscopically distinct quantum states, introduced in Schrödinger's famous Gedankenexperiment, are an epitome of quantum "strangeness" and a natural tool for determining the validity limits of quantum physics. The optical incarnation of Schrödinger's cat – the superposition of two opposite-amplitude coherent states – is also the backbone of quantum information processing in the continuous-variable domain. The talk will cover recent experimental progress on preparing such states, applying them in quantum technology and communications, and increasing their amplitudes.

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