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Type : **Keynote**

## **Virtual photons in ultra-strongly coupled systems or Quantum Nonlinear Optics without Photons**

*giovedì 14 ottobre 2021 09:00 (40)*

The talk will begin with a very quick pedagogical overview of cavity QED, circuit QED, and the ultra-strong coupling limit of these. Afterwards, present some more recent results, in the context of quantum nonlinear optics of qubits and resonators, coupled in various different configurations, and these qubits and resonators exchanging energy in various ways.

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