

Paola Cappellaro

(Massachusetts Institute of Technology (MIT), Boston, USA)

Control of quantum sensors

The success of quantum-enhanced sensors relies on precise control of the experimental system. Unfortunately, simple application of known strategies to reduce decoherence does not necessarily translate into protection of phase measurements: the techniques – such dynamical decoupling – that eliminate decoherence also eliminate the very signal that one wishes to measure.

In this talk I will show how we can extend control techniques to achieve a better and more flexible compromise between sensitivity and noise protection and even new metrology tasks, such as spectroscopy.

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