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# Improving qubit coherence through environment engineering

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## Abstract

Qubit coherence remains largely limited by interactions with the environment. In this talk, we present different approaches, including phonon density of state engineering, mechanical dressing and diode structures, to address detrimental decoherence mechanisms of spins in diamond and silicon carbide.

**Keywords:** spins, diamond, silicon carbide, mechanics, diode, coherence, phonon

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