

# Lessons for Quantum Foundations from Quantum Gravity

*Thursday, 26 March 2015 11:30 (45 minutes)*

My title could seem like a joke: what could quantum theory – with its 90 years of success covering a huge range of scales and an enormous variety of phenomena – possibly learn from quantum gravity, a theory that doesn't exist yet? I will argue that one approach to the problem of quantum gravity, in which spacetime is postulated to be fundamentally discrete or atomic, points in a direction that could have implications for our understanding of all quantum systems.

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**Session Classification:** Quantum gravity