

# Quantum reality – its uncertainty is not what it used to be

This talk will explore the strange and beautiful world of Quantum Mechanics – multiple realities, absolute uncertainty, many-worlds, quantum teleportation, quantum computing, and other generally spooky stuff of the Universe.

Amazingly, with the ability to tinker directly with single atoms we are beginning to glimpse the true nature of quantum reality. And now a completely new class of technology based on these strange rules is being developed, with possibly far reaching implications.

No maths required – just bring curiosity about the world and an open mind.

*“But, but, but ... if anybody says he can think about quantum theory without getting giddy it merely shows that he hasn't understood the first thing about it!” Niels Bohr*

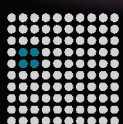
## Professor Lloyd Hollenberg Centre for Quantum Computer Technology

Lloyd Hollenberg is a quantum theorist in the School of Physics at the University of Melbourne. He is an ARC Professorial Fellow and also the program manager for Quantum Device Modelling & Algorithms within the ARC Centre of Excellence for Quantum Computing Technology. Through his work in the Centre Lloyd has established himself as a world leading designer of quantum technology.

Lloyd is a highly sought after public speaker, having lectured widely within Australia and overseas on topics as diverse as quantum physics, quarks and gluons, and the acoustics of the didgeridoo. Tonight Lloyd will be making the incomprehensible comprehensible, and will make simple, the amazing world of quantum physics and the incredible new technology based on the weird properties of reality itself.

**Event Details:** Monday 9th February,  
6.00PM for 6.30PM to 8.00PM

Powerhouse Museum  
Coles Theatre  
500 Harris Street, Ultimo  
Free Entry



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