

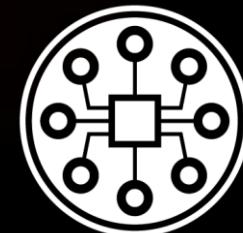
The Second Quantum Revolution



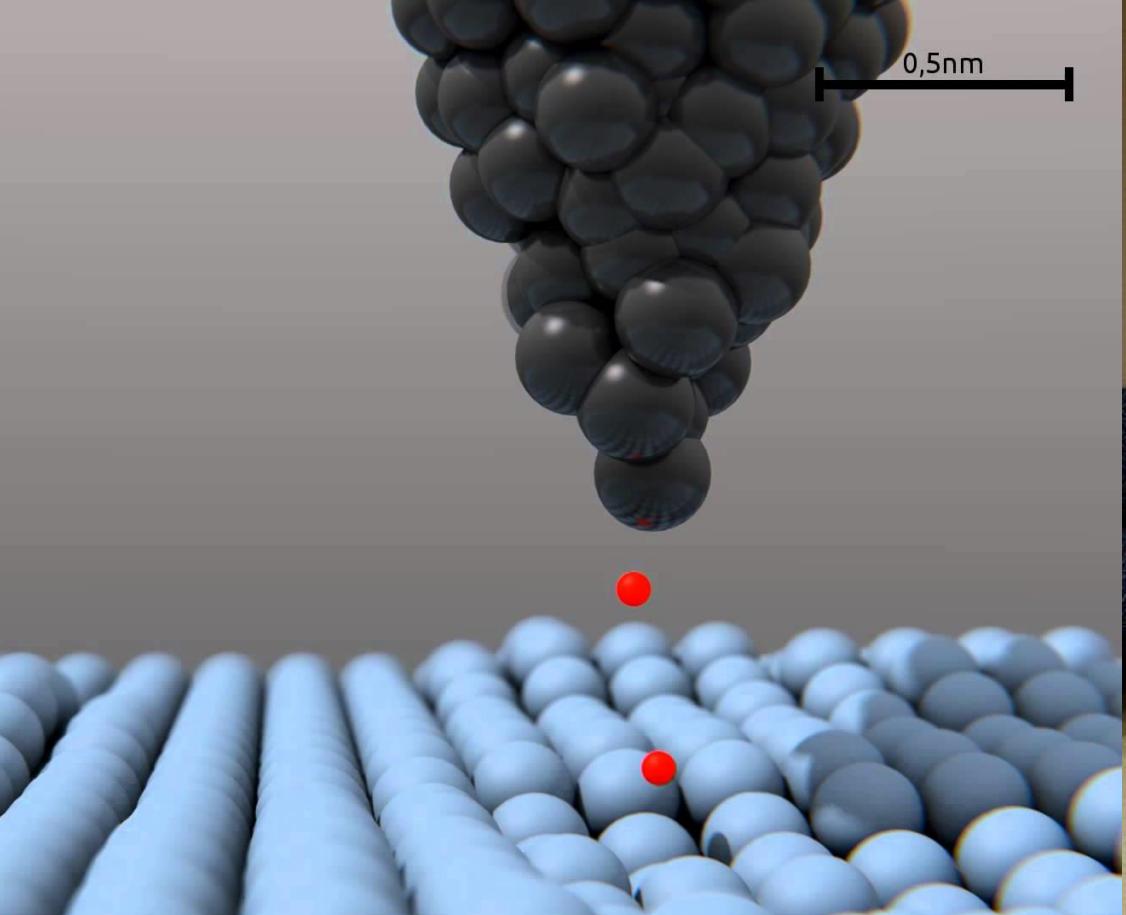
Australian
National
University



David Gozzard
@DRG_physics



EQUUS
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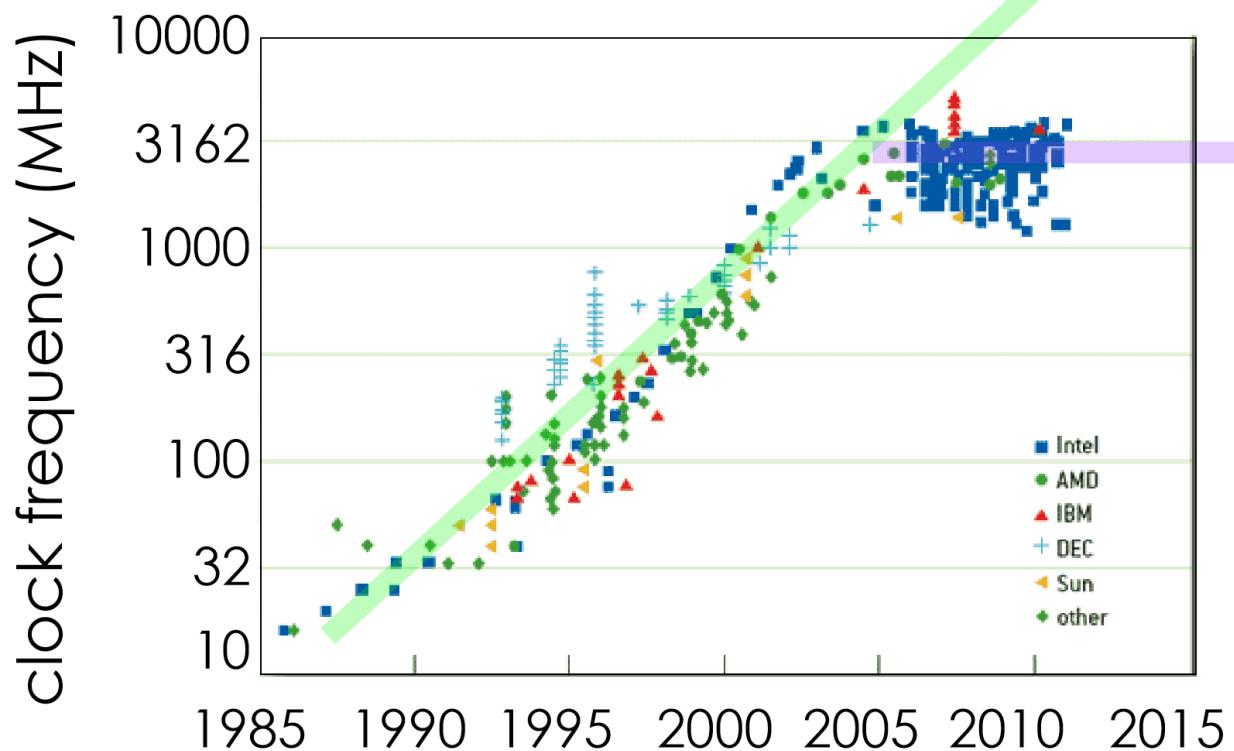
2008
3.0 GHz



312 GHz



2018
3.5 GHz





2008

3.0 GHz

**BR
OKE
N**

312 GHz

- MRI
- Solar cell efficiency
- Battery efficiency
- Sensors

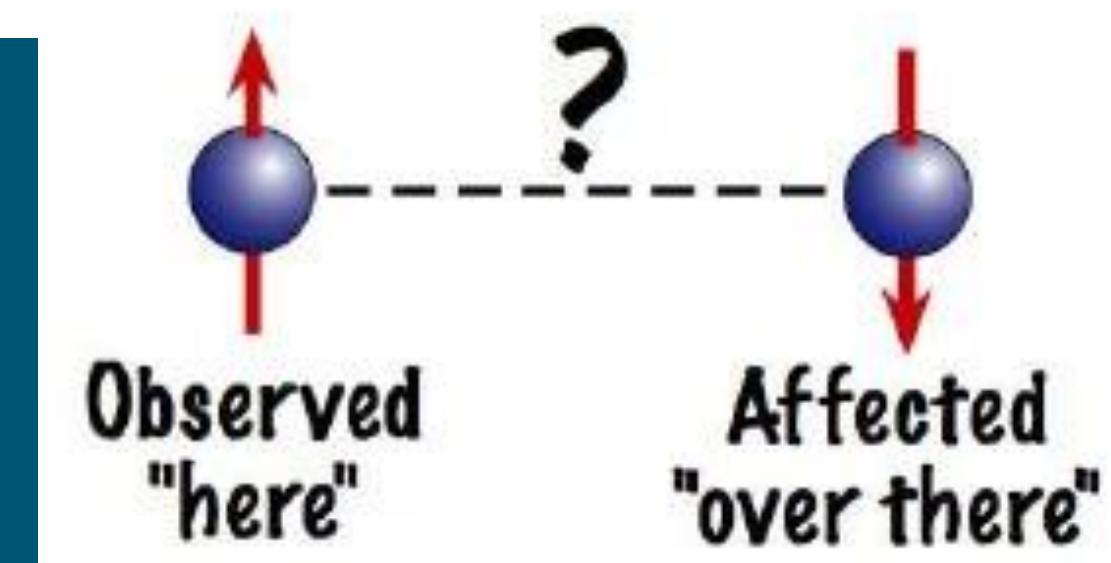
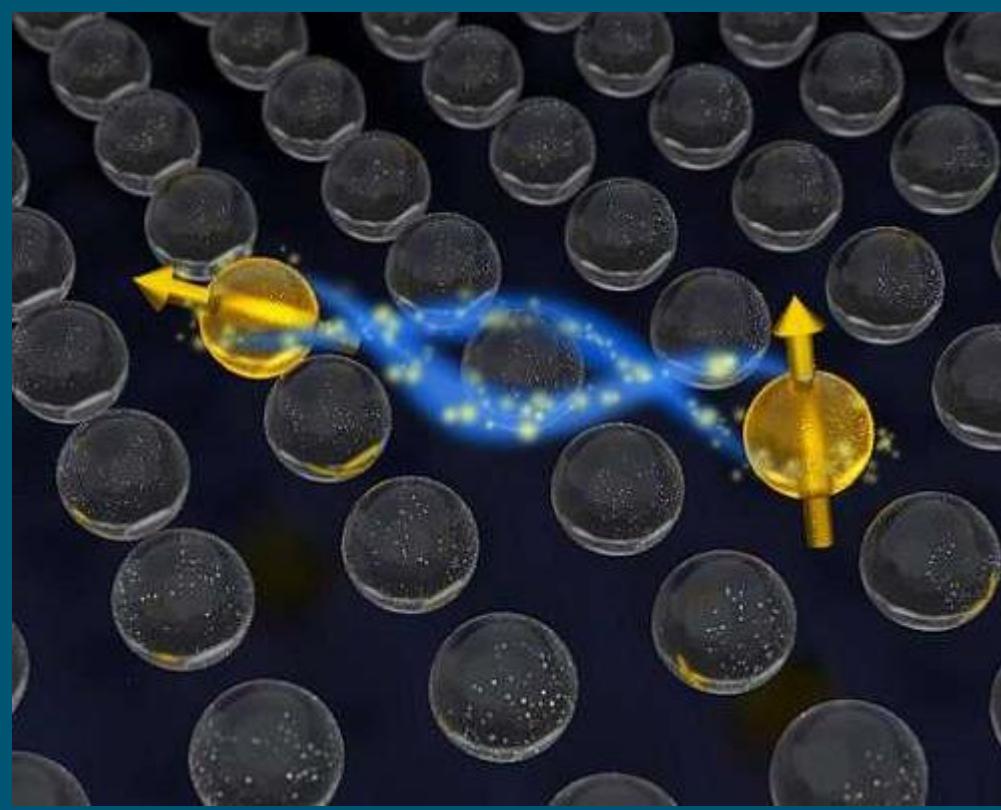


2018

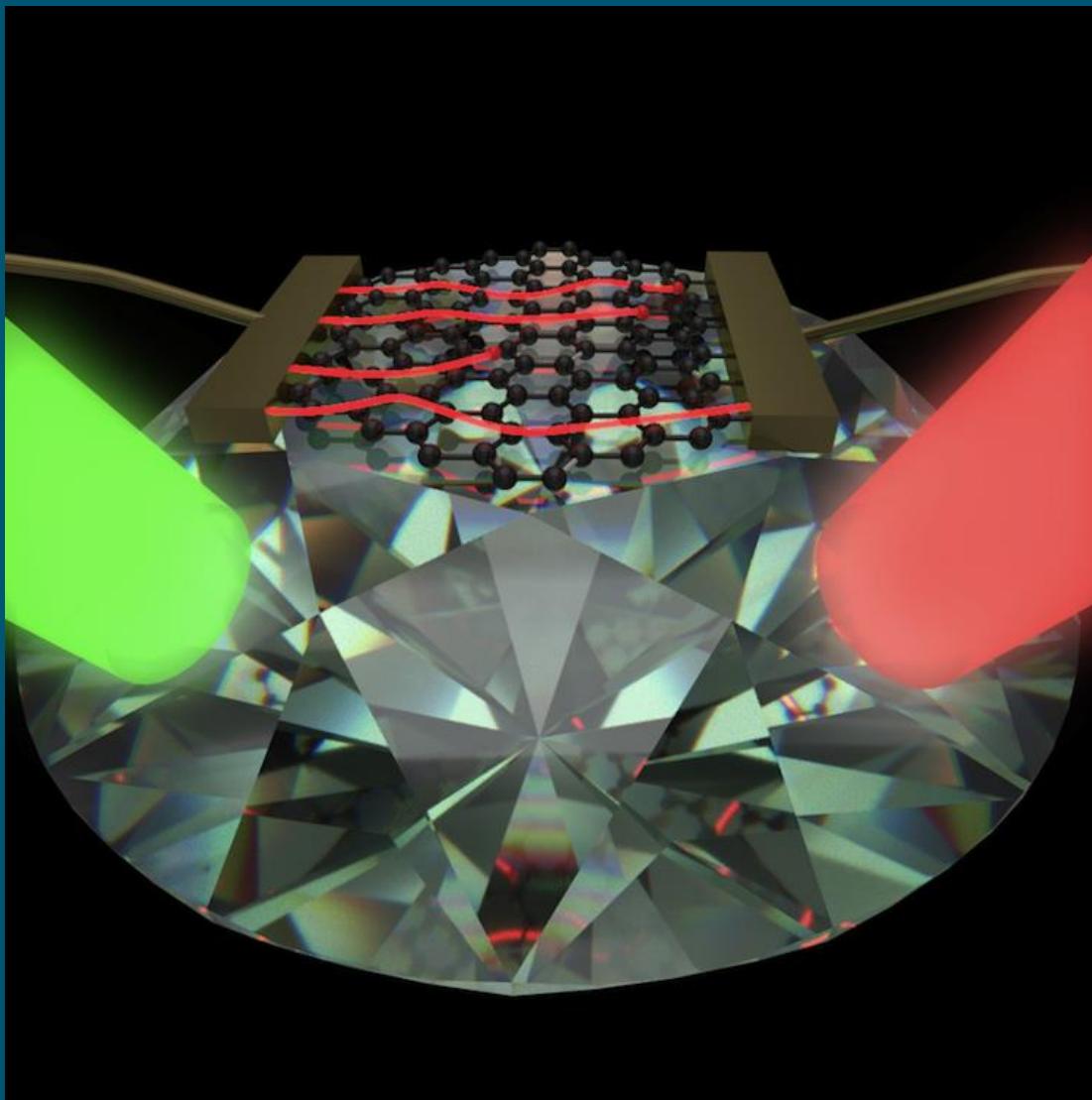
3.5 GHz

USE
MORE
QUANTUM

$$\frac{1}{\sqrt{2}}|\text{alive}\rangle + \frac{1}{\sqrt{2}}|\text{dead}\rangle$$

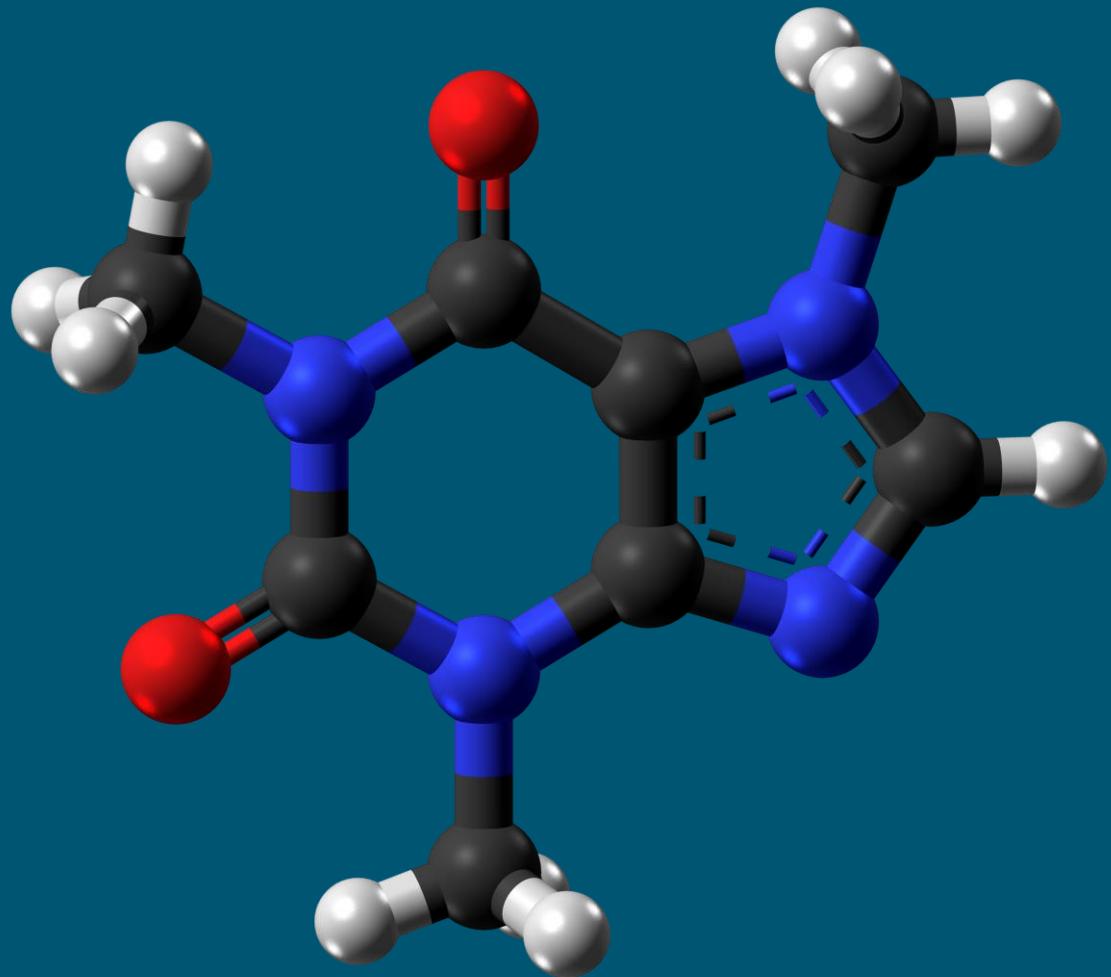


Quantum Sensing and Metrology



W = 597 L = 360

Quantum computation and simulation



Quantum communications





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A historical painting of a revolution, likely the French Revolution, with modern quantum-themed flags overlaid. The flags feature various quantum symbols: a red flag with an atom model, a blue flag with a circuit board and qubits, and a dark blue flag with a complex quantum circuit. The scene includes a black flag with a glowing orange quantum state, a red flag with a classical atom model, and a blue flag with a complex quantum circuit. The background shows a crowd of people, a cart, and a building under a cloudy sky.

Vive la
Quantum Révolution