

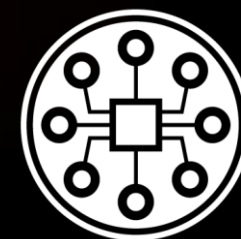
The Second Quantum Revolution



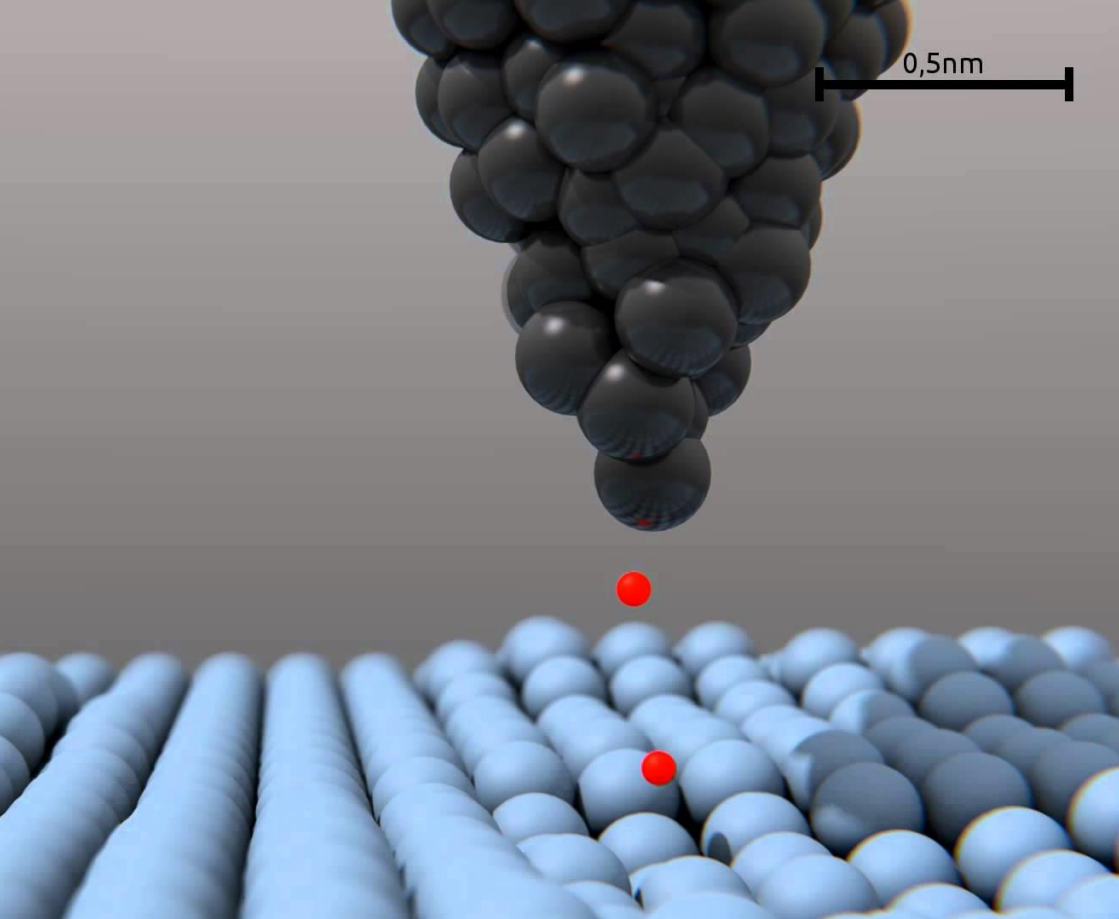
Australian
National
University



David Gozzard
@DRG_physics



EQUS
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Engineered Quantum Systems





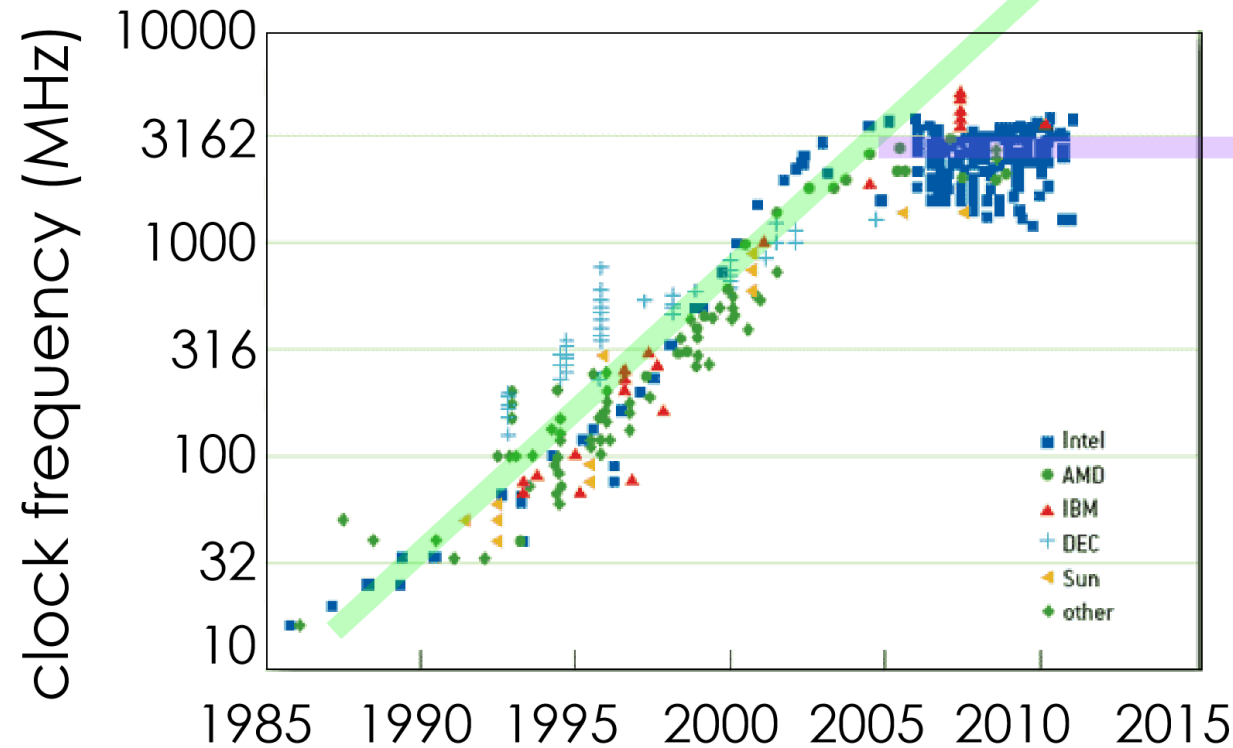
2008
3.0 GHz



312 GHz



2018
3.5 GHz





2008
3.0 GHz



312 GHz

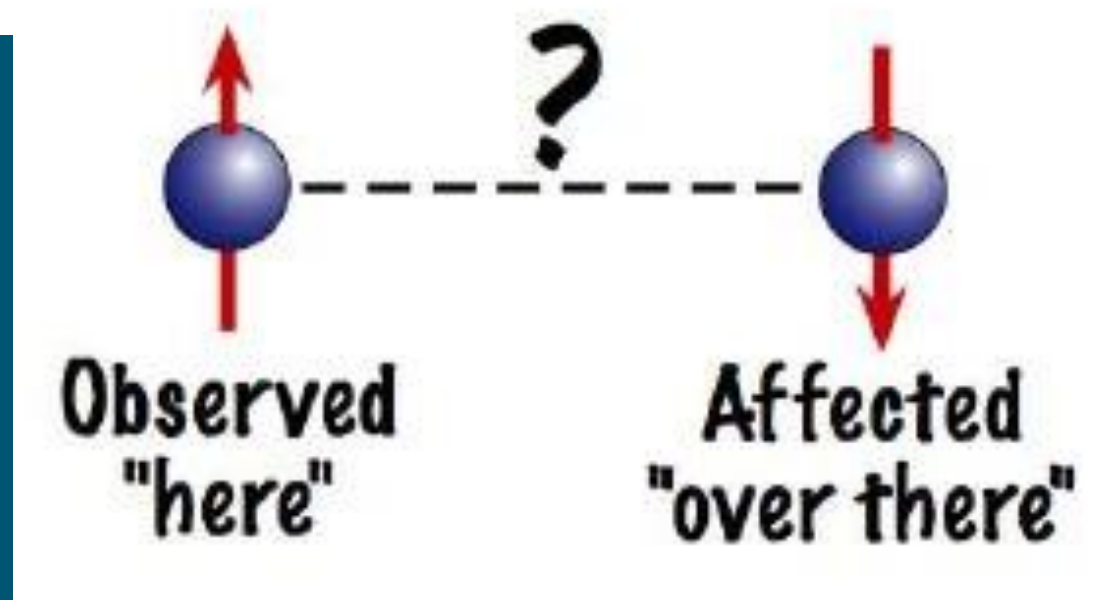
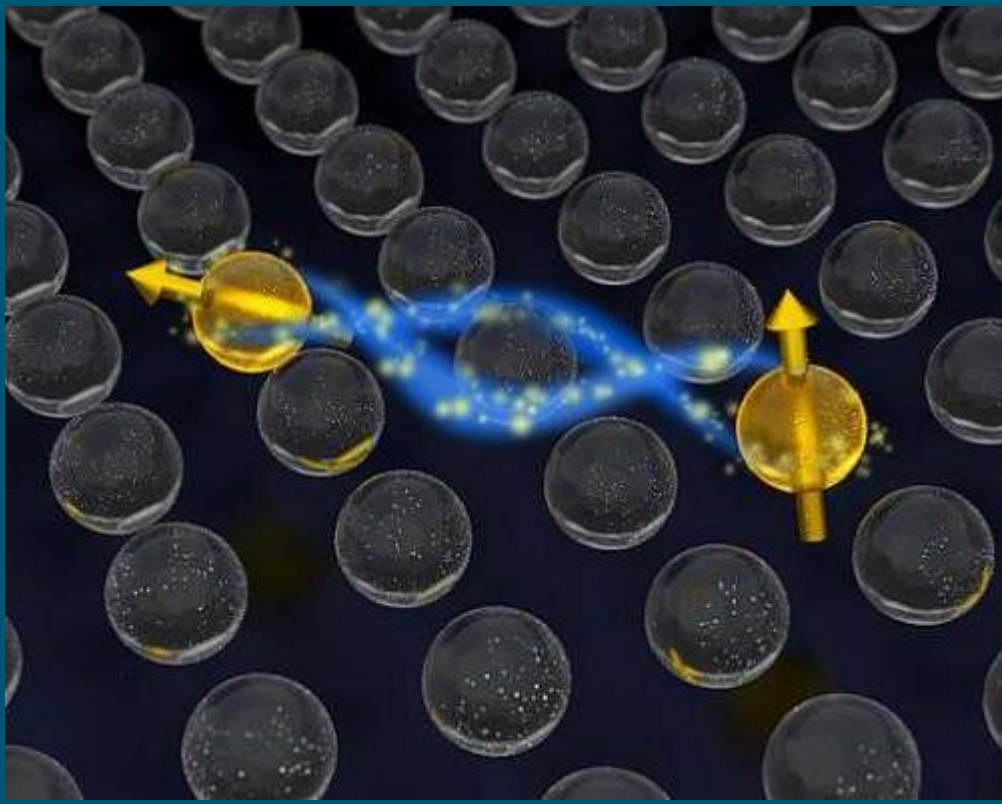


2018
3.5 GHz

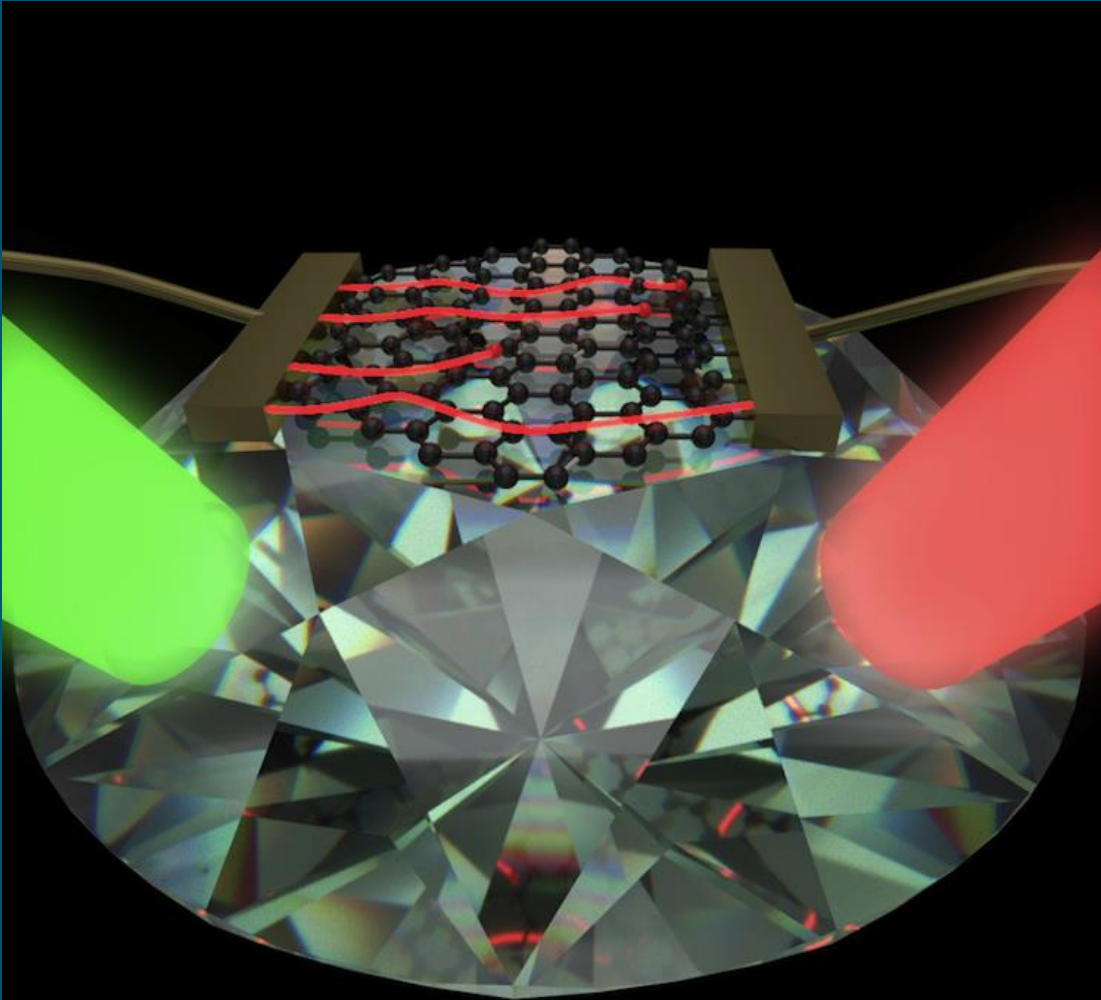
- MRI
- Solar cell efficiency
- Battery efficiency
- Sensors

USE
MORE
QUANTUM

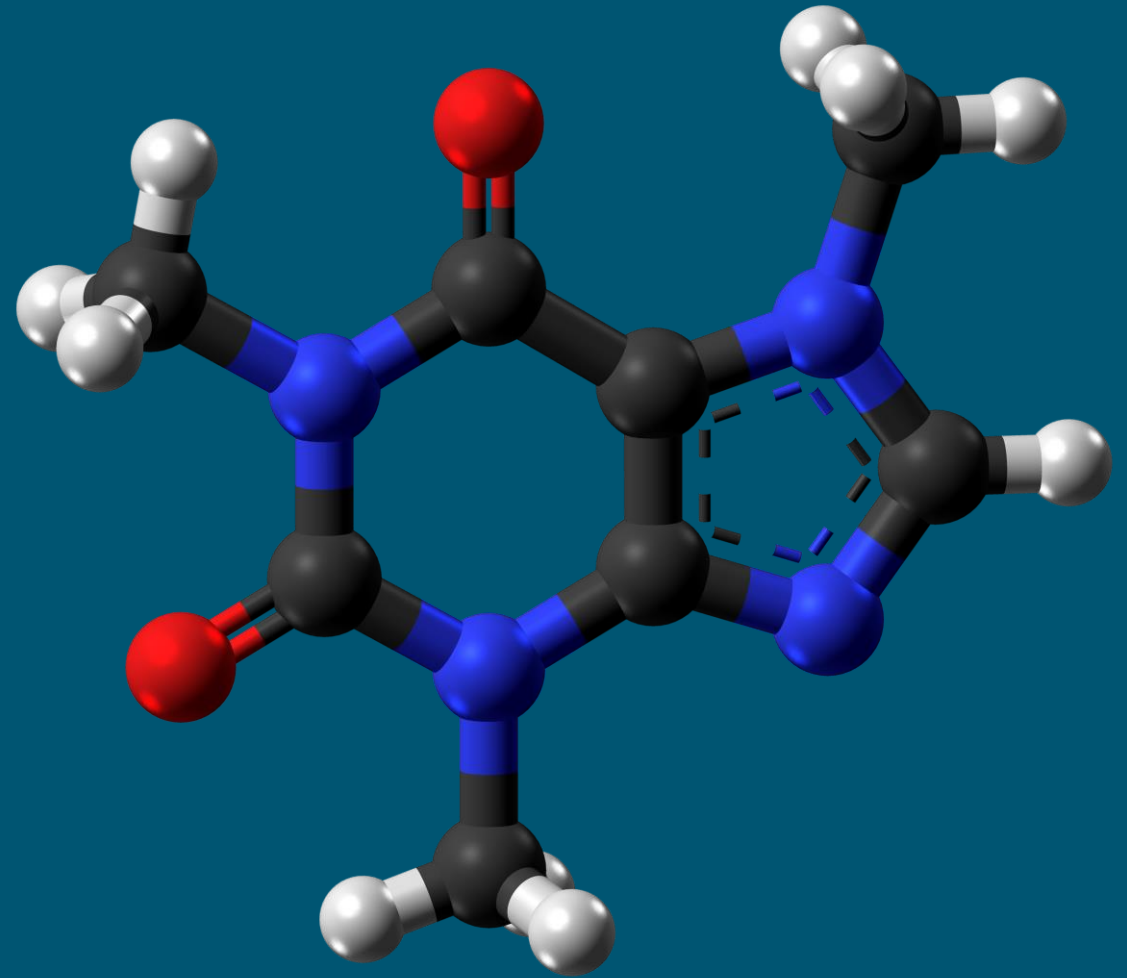
$$\frac{1}{\sqrt{2}}|\text{cat sitting}\rangle + \frac{1}{\sqrt{2}}|\text{cat lying}\rangle$$



Quantum Sensing and Metrology

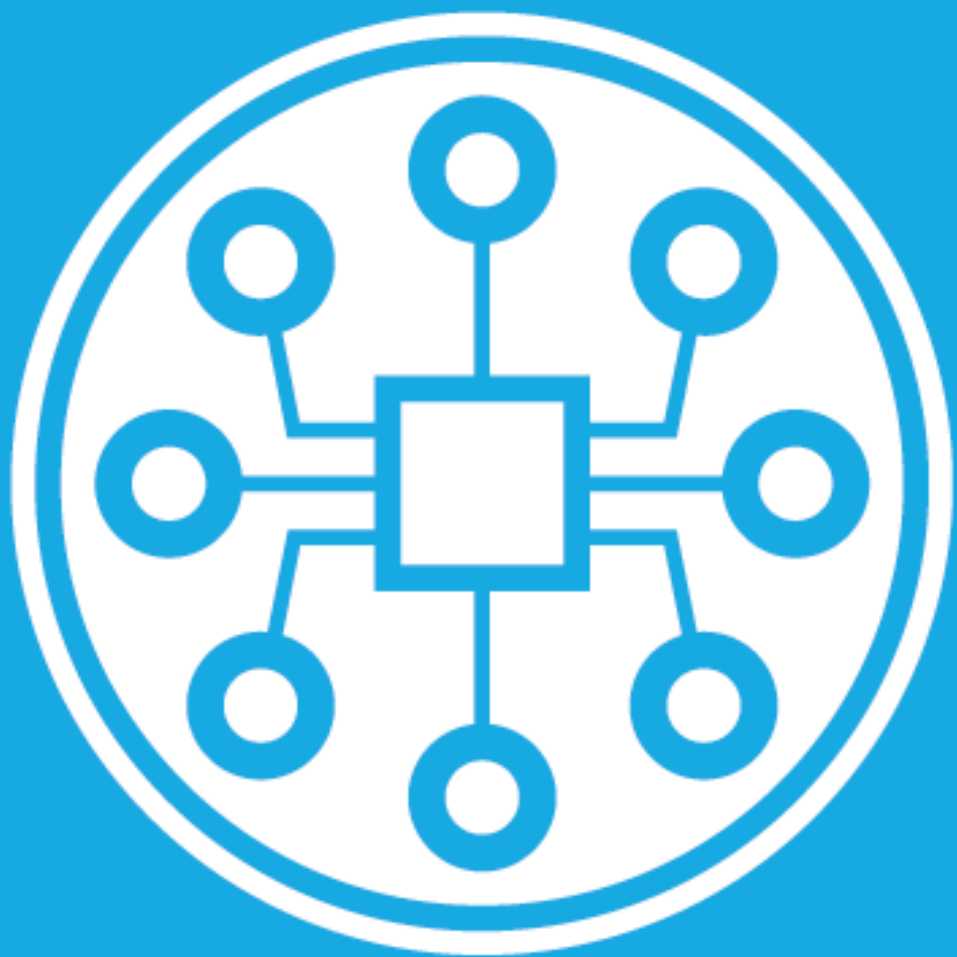


Quantum computation and simulation



Quantum communications





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Vive la Quantum Révolution