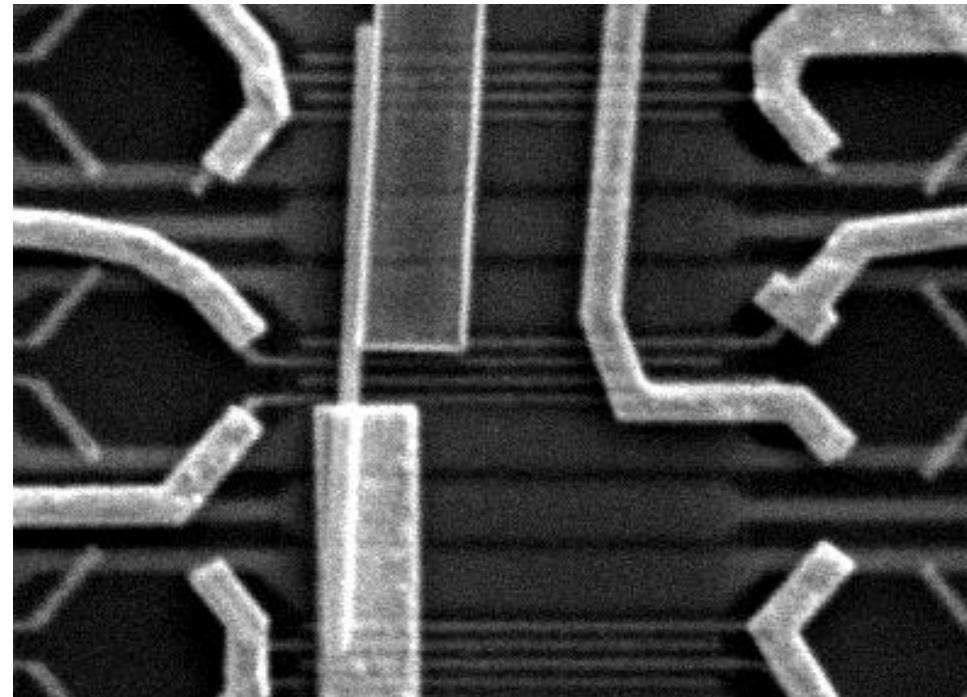
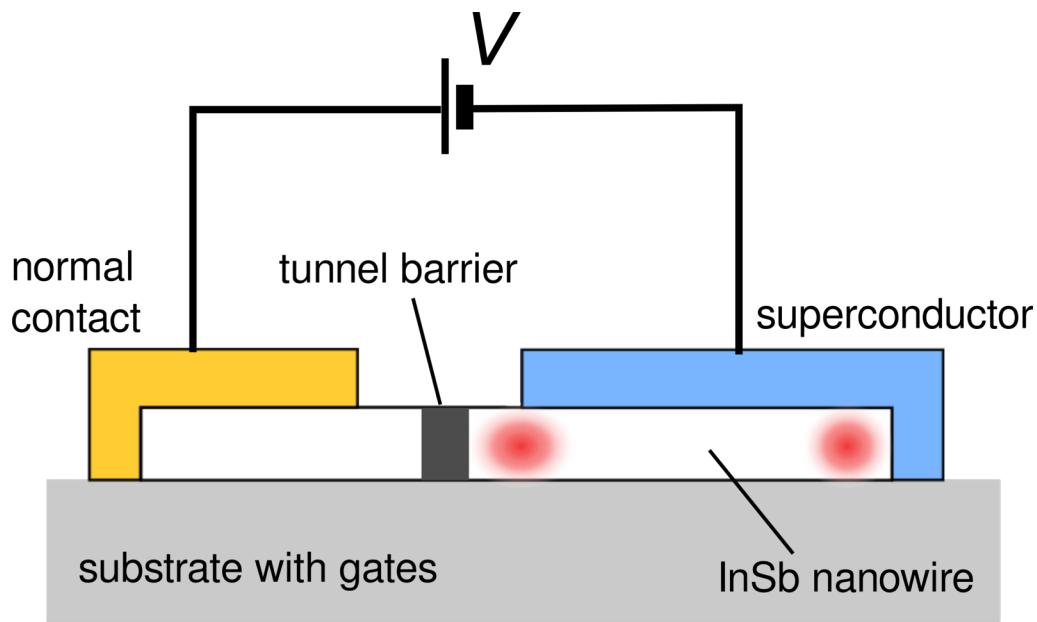


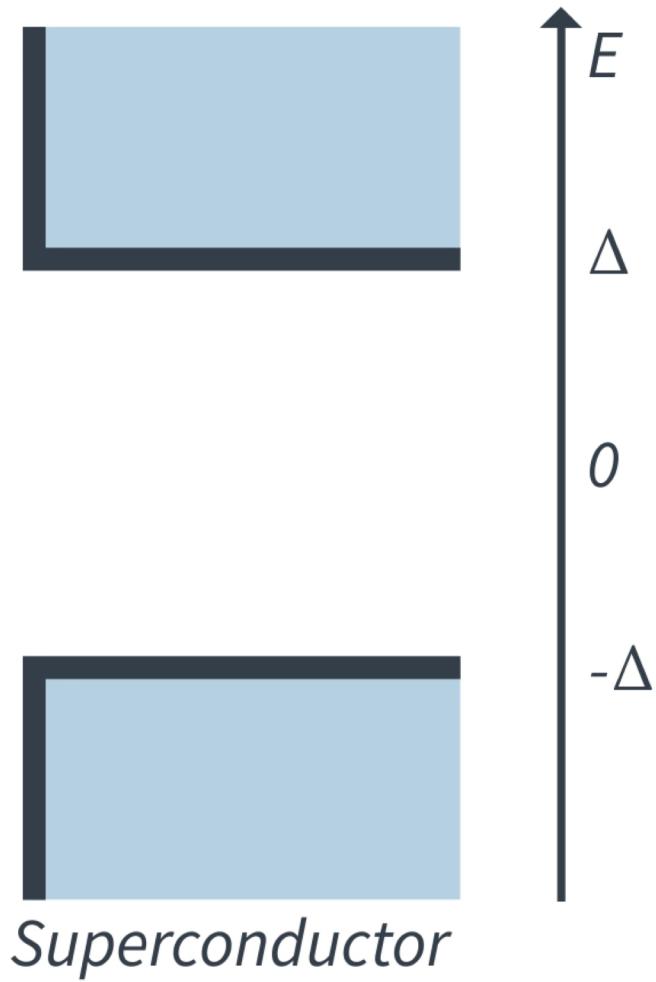
# Michael Wimmer

## *Majorana experiments*

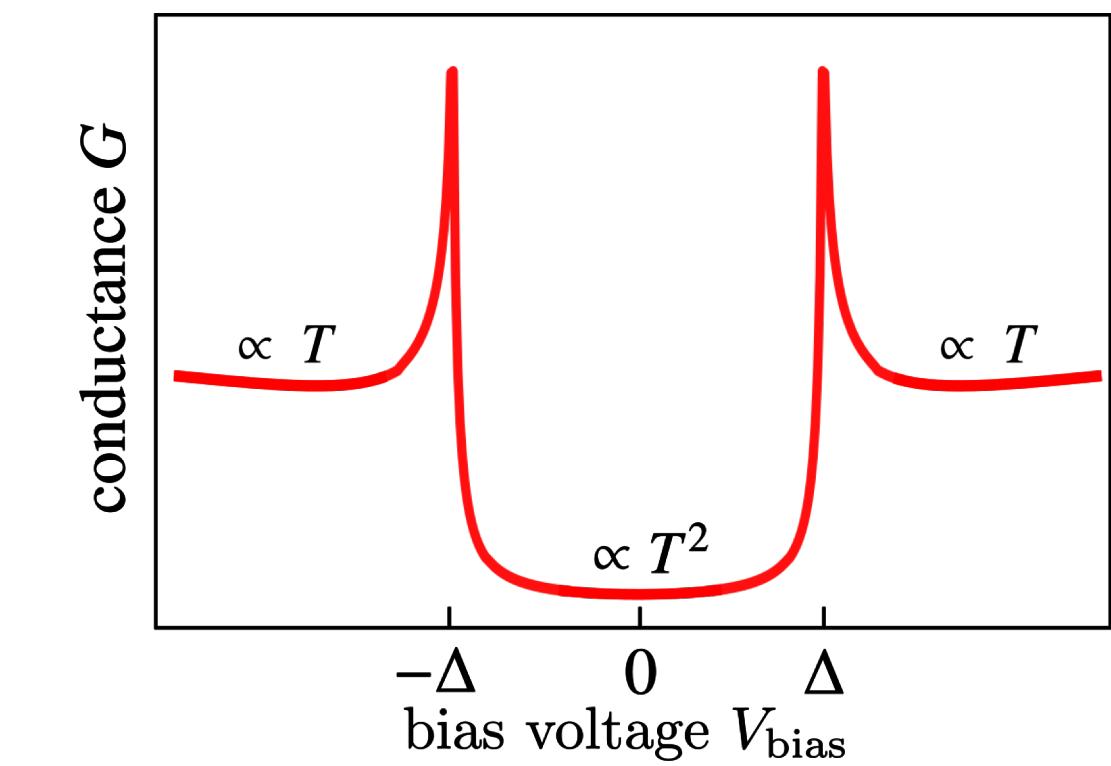
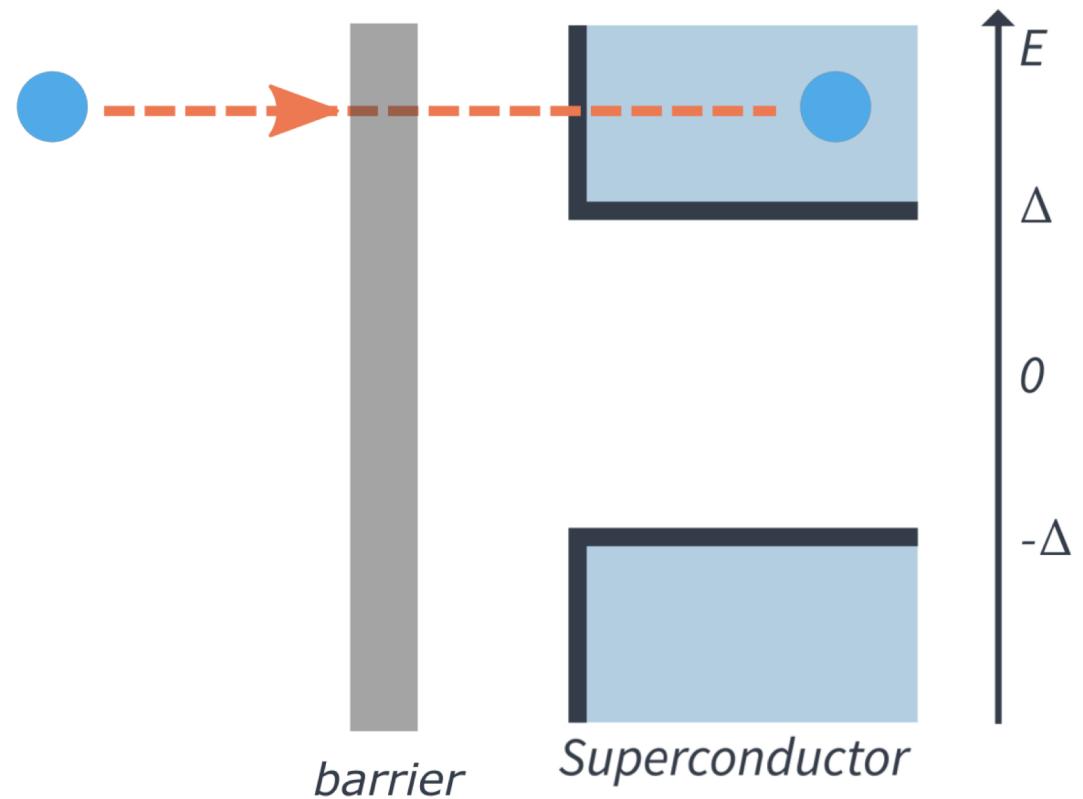


V. Mourik et al., Science 336, 1003 (2012)

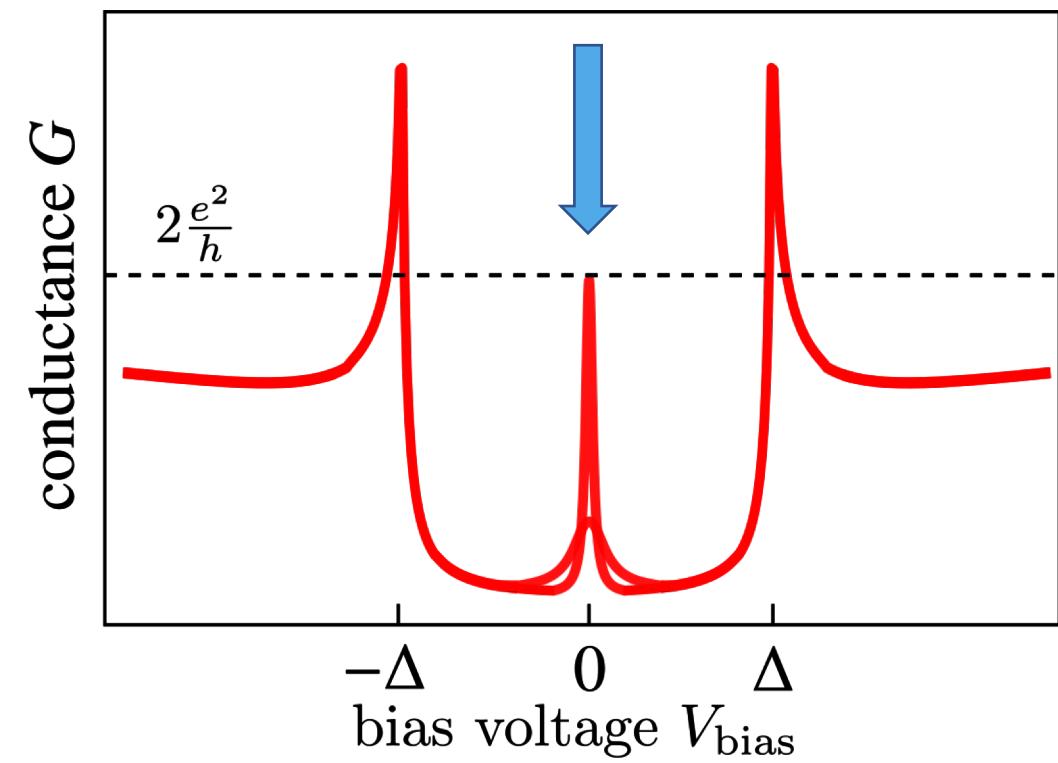
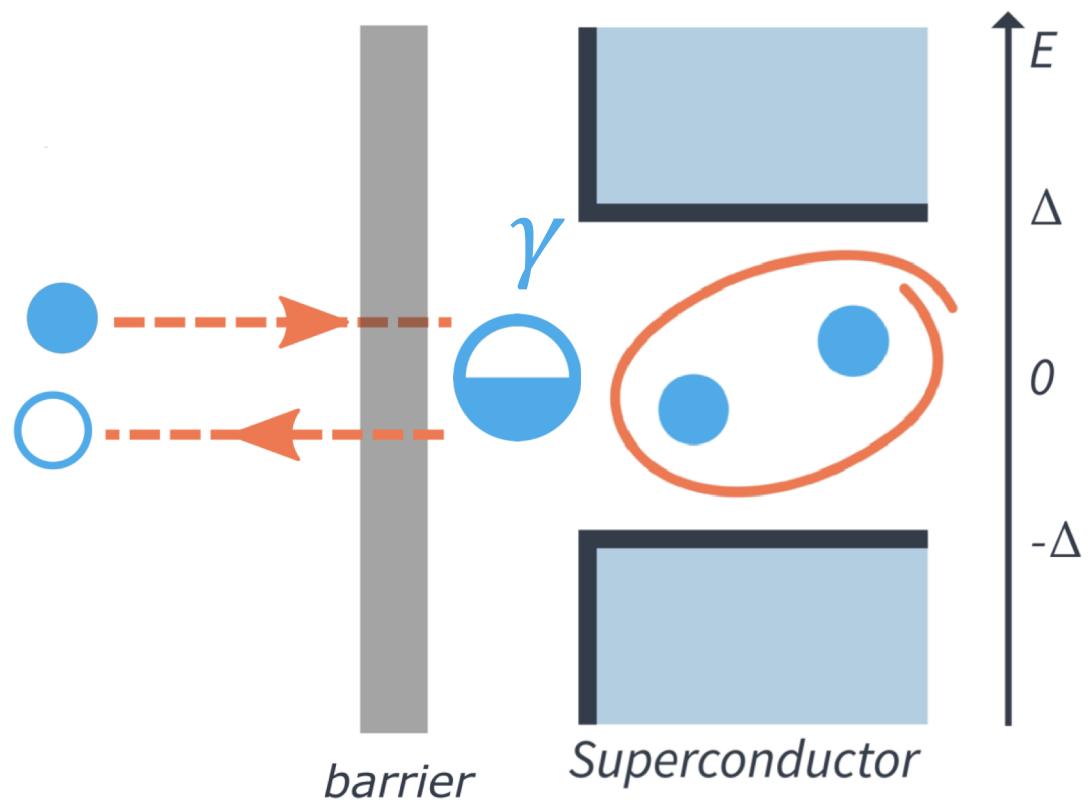
- Majorana bound states appear at finite magnetic field
- Measurement: current-voltage characteristics

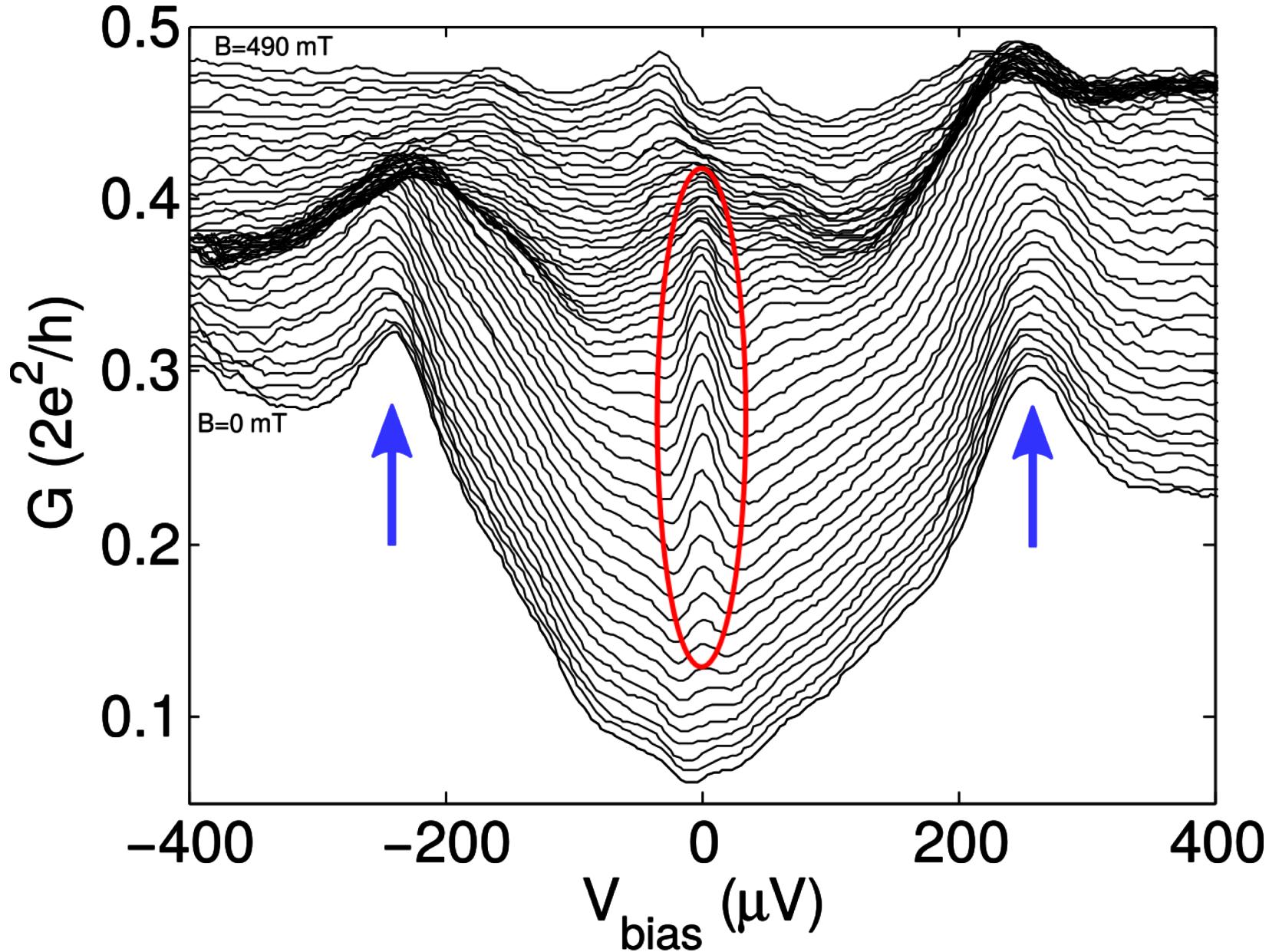


# Andreev spectroscopy at zero B-field (no Majoranas)



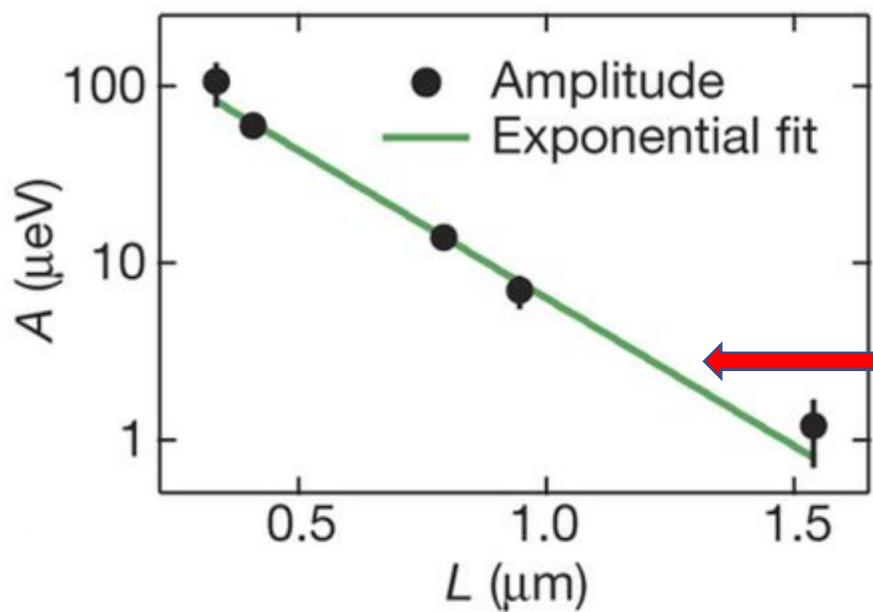
# Andreev spectroscopy at finite B-field (with Majoranas)





**2016**

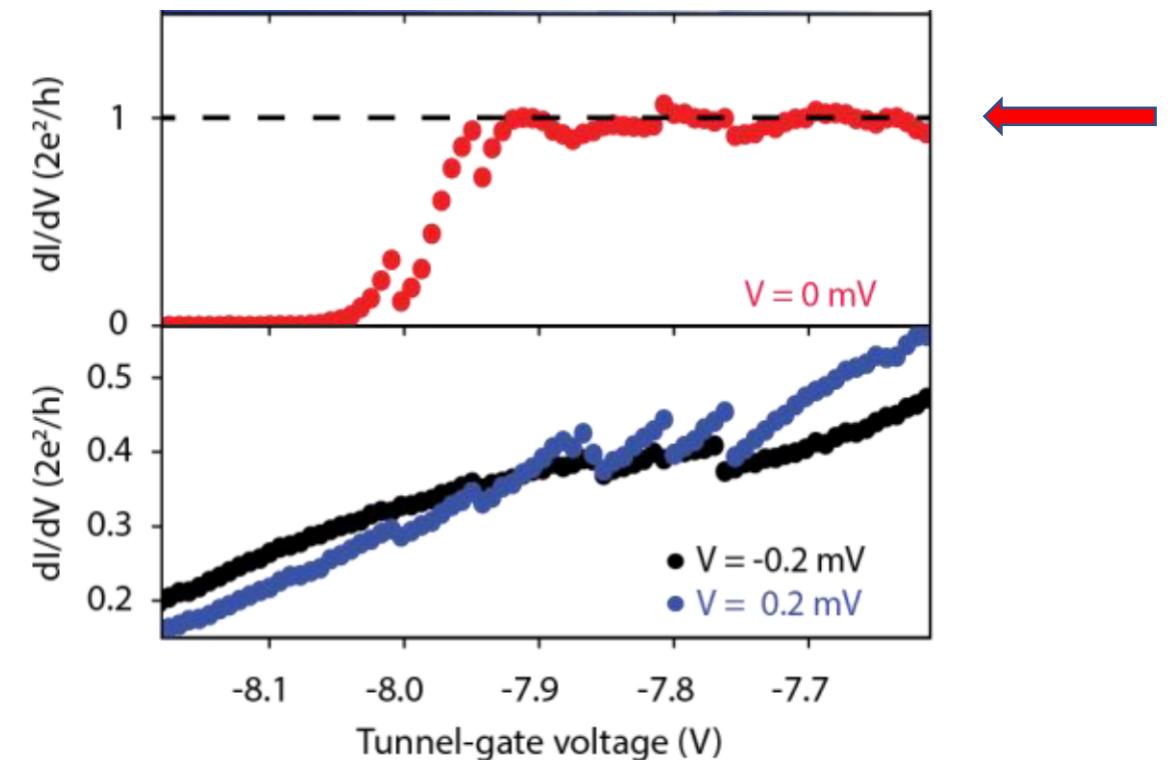
## Exponential protection of Majoranas



S. Albrecht *et al.*, Nature **531**, 206 (2016)

**2018**

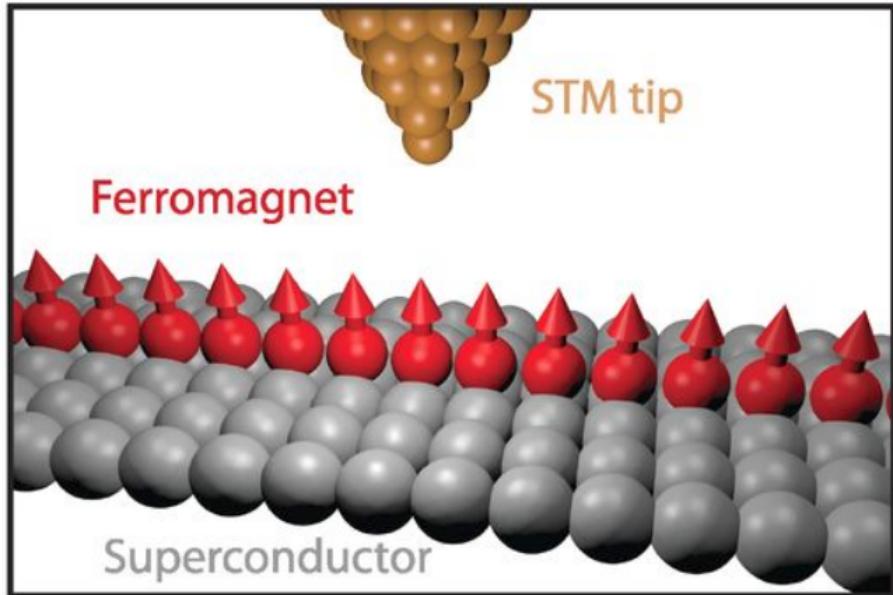
## Quantized Majorana conductance



H. Zhang *et al.*, Nature **556**, 74 (2018)

Majoranas may appear in many other hybrid superconducting systems.

Prominent example:



... or in even more exotic systems

- Superfluid Helium-3
- Fractional Quantum Hall effect