

- Funded by UKRI to develop quantum electronics for hidden-sector particle detection.
- Exemplar is a microwave axion haloscope
 - Operating at frequencies > 5 GHz with mK noise temperatures
- Developing
 - Incoherent electronics (bolometers)
 - Coherent electronics (TWPA, SLUG-loaded waveguides,...)
 - Qubit devices

...not just electronics



- Constructing an 8T, 10mK test facility at the University of Sheffield
- Collaborating with ADMX on experimental designs
- Investigating HSP theory and phenomenology
 - Axion cosmology
 - ALP phenomenology
 - Dark photon stars

Currently advertising for a research associate in superconducting quantum amplifiers at Lancaster University.

Find us by poster 56!

