



# FLEET

ARC CENTRE OF EXCELLENCE IN  
FUTURE LOW-ENERGY  
ELECTRONICS TECHNOLOGIES

## FLEET STREAMED SEMINAR

# Neutron scattering furthering FLEET research

## KIRRILY RULE

ANSTO

**Abstract:** Neutron scattering is a powerful tool for investigating the structure and dynamics of condensed matter systems. In particular the magnetic spin of the neutron can interact directly with magnetic ions to reveal information about the magnetic properties of a material. I will give an overview of the neutron scattering facility at ANSTO and the techniques that might be useful to FLEET scientists for their research. I will highlight recent literature on systems similar to those investigated by FLEET, revealing some of the challenges of neutron scattering.



**Dr Kirrily Rule** is an internationally-recognised leader in understanding low-dimensional and frustrated magnetic materials. Within FLEET, Dr Rule provides expertise in conducting experiments at ANSTO's world-leading nuclear and synchrotron beam characterisation facilities for FLEET partner researchers. She works closely with CI Xiaolin Wang and Al David Cortie (UOW) in FLEET's Enabling technology A, atomically thin materials.

**FLEET** is an Australian Research Council Centre of Excellence developing a new generation of ultra-low energy electronics.

**DATE:** Thursday 7 May 2020  
**TIME:** 11:00 - 12:00 AEST  
**VENUE:** [monash.zoom.us/j/92686385714](https://monash.zoom.us/j/92686385714)  
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