



Contribution ID : 96

Type : Poster

Recent highlights from the Pelican spectrometer

Thursday, 25 November 2021 17:35 (1)

The cold-neutron time-of-flight spectrometer Pelican has been in operation since 2014. Pelican is well suited to the measurement of quasielastic and inelastic scattering in the low energy region, as a result Pelican is sensitive to many phenomena including self-diffusion of molecular species, low energy phonons, crystal field excitations and spin waves. While use of the neutron energy gain portion of the spectrum allows the detailed measurement of the phonon density of states. The spectrometer is well equipped with a wide range of sample environment which allows measurements in applied magnetic fields, milli Kelvin temperatures and applied pressure. In this contribution we will show results from recent publications highlighting the diverse science and application of the Pelican spectrometer.

Level of Expertise

Expert

Presenter Gender

Man

Pronouns

He/Him

Which facility did you use for your research

Australian Centre for Neutron Scattering

Students Only - Are you interested in AINSE student funding

Do you wish to take part in the Student Poster Slam

Condition of submission

Yes

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Session Classification : Poster Session

Track Classification : Instruments & Techniques