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Vibrational analysis of periodic systems at the THz beamline: from porous materials to astrochemistry

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Courtney Ennis completed his PhD on planetary surface geochemistry at The University of Western Australia before completing Postdoctoral positions at the University of Hawai i at Mānoa, University College London, and at the Australian Synchrotron on projects related to astrochemistry. He is now a Senior Lecturer of Chemistry at Otago and has expanded his research interests toward the vibrational spectroscopy of porous crystalline materials, such as metallic- and hydrogen-bonded organic frameworks. He performs spectroscopy experiments using the intense infrared light provided by the THz beamline and he uses the synchrotron's ASCI advanced computing resource to perform periodic DFT frequency calculations for characterisation of the physicochemical properties of the crystal-phase.

Presenter: ENNIS, Courtney (University of Otago)