## **Cosmic Magnetism in Voids and Filaments**



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## The Polarisation Sky Survey of the Universe's Magnetism (POSSUM)

Wednesday, 25 January 2023 11:40 (20 minutes)

The Polarisation Sky Survey of the Universe's Magnetism (POSSUM; https://possum-survey.org/) commenced in November 2022, and is using ASKAP's unique survey capabilities to transform our understanding of astrophysical magnetic fields. POSSUM's core goal is to produce a "rotation measure (RM) grid" of 30–50 polarised background sources per deg^2 over 20,000 deg^2 over 0.8-1.1 GHz. One of the main science goals of POSSUM is to use Faraday rotation to measure and constrain the magnetic fields in filaments, voids and the IGM. I will present an overview of the POSSUM survey, will show initial results, and will discuss the prospects for studying IGM magnetism with POSSUM.

Presenter: GAENSLER, Bryan (University of Toronto)

Session Classification: Wednesday