

Radio GAGA?! Complementing Radio Data from GASKAP with Optical Data from GALAH to study the Interstellar Medium (ISM)

This poster showcases how interstellar absorption features in high-resolution optical spectra from the GALAH survey—including neutral potassium (KI) and diffuse interstellar bands (DIBs)—can be used to trace the cold ISM across our Galaxy.

To highlight this amazing potential, we present first results by Nguyen, Buder et al. (in prep.), where we combine GALAH KI absorption with GASKAP HI absorption toward the Magellanic Cloud foreground. The study reveals a strong kinematic correlation between the optical and radio tracers, providing a powerful example of how optical and radio observations can be used in concert to probe the structure, kinematics, and composition of the neutral ISM.

Authors: Dr NGUYEN, Hiep (ANU); Prof. MCCLURE-GRIFFITHS, Naomi (ANU); BUDER, Sven (Australian National University)

Presenter: BUDER, Sven (Australian National University)