

Radio galaxies

Team lead: Benjamin Quici (ICRAR-Curtin)

Team members: James Allison (Oxford), Tao An (SHAO), Joe Callingham (ASTRON), Bryan Gaensler (Toronto), Gulay Gurkan Uygun (CASS), George Heald (CASS), Natasha Hurley-Walker (ICRAR-Curtin), Melanie Johnston-Hollitt (ICRAR-Curtin), Ben Quici (ICRAR-Curtin), Chris Riseley (Bologna), Kat Ross (ICRAR-Curtin), Elaine Sadler (CASS, Sydney), Nick Seymour (ICRAR-Curtin), Chenxi Shan (SJTU), Tsutomu Takeuchi (Nagoya), Tessa Vernstrom (CASS), Jennifer West (Toronto), Sarah White (SARAO, Rhodes), Ivy Wong (ICRAR-UWA), Minfeng Gu (SHAO), Baoqiang Lao (+ please add your name if you are interested in joining the team)

Current projects:

J. Allison: 21-cm line absorption in a sample of candidate high-redshift radio galaxies (collaborators Hurley-Walker, Callingham, Tremblay & Sadler)

J. Broderick: New high-redshift radio galaxy candidates from GLEAM (collaborator Seymour)

N. Hurley-Walker: Radio lobes of NGC2663

N. Hurley-Walker: All-southern-sky sky model for MWA calibration

S. White: Papers III and IV on the GLEAM 4-Jy sample (multi-wavelength analysis and broadband radio spectral analysis)

S. White: MeerKAT follow-up of the GLEAM 4-Jy sources

I. Wong: Very nearby AGN host galaxies that are part of the Swift BAT AGN Spectroscopic Survey

N Seymour: New determinations of the local radio luminosity function

B. Quici, PhD project: 'Forging a new statistical understanding of dying radio galaxies' (supervisors Seymour & Hurley-Walker; #21 on student projects wiki page)

K. Ross, PhD project: 'Understanding the Nature of Peaked-Spectrum Sources' (supervisors Seymour, Hurley-Walker & Callingham; #22 on student projects wiki page)

Recent publications:

- K. Ross et al., 'Spectral Variability of Radio Sources at Low Frequencies', 2020, MNRAS, accepted (<https://arxiv.org/abs/2012.01842>)
- B. Quici et al., 'Remnant radio galaxies discovered in a multifrequency survey', 2020, PASA, accepted (<https://arxiv.org/abs/2101.09761>)
- C. Riseley et al., 'The POLarised GLEAM Survey (POGS) II: Results from an all-sky rotation measure synthesis survey at long wavelengths', 2020, PASA, 37, e029 (<https://ui.adsabs.harvard.edu/abs/2020PASA...37...29R/abstract>)
- G. Drouart et al., 'The GLEAMing of the first supermassive black holes', 2020, PASA, 37, e026 (<https://ui.adsabs.harvard.edu/abs/2020PASA...37...26D/abstract>)
- S. White et al., 'The GLEAM 4-Jy (G4Jy) Sample: I. Definition and the catalogue', 2020, PASA, 37, e018 (<https://ui.adsabs.harvard.edu/abs/2020PASA...37...18W/abstract>)
- S. White et al., 'The GLEAM 4-Jy (G4Jy) Sample: II. Host galaxy identification for individual sources', 2020, PASA, 37, e017 (<https://ui.adsabs.harvard.edu/abs/2020PASA...37...17W/abstract>)
- N. Seymour et al., 'PKS 2250-351: A giant radio galaxy in Abell 3936', 2020, PASA, 37, e013 (<https://ui.adsabs.harvard.edu/abs/2020PASA...37...13S/abstract>)

Recent invited talks:

- S. White, 'A 2020 view of the AGN world', SALF VII
- C. Riseley, 'Low-frequency polarimetry with next-generation aperture arrays: results, prospects and lessons learned', SALF VII

Upcoming conferences/meetings:

- GeG Celebration of Science, February 26, virtual meeting
- ASA 2021, July 12-16, University of Melbourne