

Spectroscopy

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Active Surveys:

HighZ: A blind 21-cm line survey for high-redshift radio galaxies (G0036)

- PI: James Allison
- Frequency: Centred at 215MHz

Molecular Lines in the Galactic Centre (G0018)

- PI: Chenoa Tremblay
- Frequency: 70--100MHz, 140--170MHz
- Comensal G0015

Radio Recombination Spectral Lines toward Galactic Centre and NGC6334 (G0015)

- PI: Slava Kitaeff
- Frequency: Centered at 154 & 215MHz

Axion Searches with the MWA. – Student Project

- PI: Christoph Weniger (MWA members Ramesh Bhat and Chenoa Tremblay)
- Frequency: 70-300MHz

SETI Search of Proxima Cen

- Lead by Danny Price & Breakthrough Listen Team

Paper Proposals:

Tremblay, Chenoa et al. "An Australian view of RCW 38 and other Southern HII Regions" – Uses public MWA data, ASKAP, Parkes and ATCA.

Hurley-Walker et al. "Search for red-shifted HI with the MWA"

Publications:

Tremblay, Chenoa et al. "Nitric Oxide and other molecules: Molecular Modelling and Low Frequency Exploration using the Murchison Widefield Array" (<https://ui.adsabs.harvard.edu/abs/2020ApJ...905...65T/abstract>)

Tremblay, C. D. , Tingay, S.J. "A SETI Survey of the Vela Region using the Murchison Widefield Array: Orders of Magnitude Expansion in Search Space" PASA 2020PASA...37...35T (<https://ui.adsabs.harvard.edu/abs/2020PASA...37...35T/abstract>)

Tremblay, Chenoa "A Search for Molecules at Low Frequency with the Murchison Widefield Array" Ph.D. Thesis (<https://ui.adsabs.harvard.edu/#abs/2018PhDT.....52T/abstract>)

Tremblay, C. D.; Jones, P. A.; Cunningham, M.; Hurley-Walker, N.; Jordan, C. H.; Tingay, S. J. "A Molecular Line Survey around Orion at Low Frequencies with the MWA" (<https://ui.adsabs.harvard.edu/#abs/2018ApJ...860..145T/abstract>)

Tremblay, Chenoa D.; Jordan, Christopher H.; Cunningham, Maria; Jones, Paul A.; Hurley-Walker, Natasha "Low-Frequency Carbon Recombination Lines in the Orion Molecular Cloud Complex" (<https://ui.adsabs.harvard.edu/#abs/2018PASA...35...18T/abstract>)

Tremblay, Chenoa D.; Hurley-Walker, Natasha; Cunningham, Maria; Jones, Paul A.; Hancock, Paul J.; Wayth, Randall; Jordan, Christopher H. "A first look for molecules between 103 and 133 MHz using the Murchison Widefield Array" (<https://ui.adsabs.harvard.edu/#abs/2017MNRAS.471.4144T/abstract>)