

Figure 1). It is thus an excellent test bed for the evolution of binaries containing compact objects, as shown by Titus et al. (2020). Using these Legacy data in combination with multiwavelength supplementary data, the radio pulsar census that will be delivered by the TRAPUM survey, and in context of the outputs of population synthesis models, we aim to grow a better understanding of the mechanism for radio emission in high mass X-ray binaries, and the evolutionary process from radio pulsar to accreting X-ray pulsar in binaries.

Aim

For this project we will be measuring the brightness and spectral index of radio point sources in the MeerKAT Legacy survey of the Magellanic Clouds. The data are already in-hand and processed. We will follow up with multi wavelength supplementary data.

References

Haberl & Sturm 2015, [A&A, 586, A81](#)

Titus et al. 2020, [MNRAS, 494, 500](#)

van den Eijnden et al. 2021, [MNRAS, 507, 3899](#)