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ViCTORIA: A MeerKAT survey of the Virgo cluster

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I will describe the ViCTORIA (Virgo Cluster multi Telescope Observations in Radio of Interacting galaxies and AGN) project, a blind survey of the Virgo cluster undertaken with MeerKAT at 21 cm. The survey covers the cluster up to $\sim 1 R_{200}$ (60 sq. deg.) and has a sensitivity of ~ 0.6 mJy/beam at 11 km/s and 12x27 arcsec angular resolution. This survey is providing us with a unique set of HI and radio continuum data for hundreds of galaxies within the cluster. Combined with those gathered with LOFAR (Edler et al. 2023) it will provide a unique view of the radio properties of galaxies in a rich environment. I will review the first results obtained after the analysis of representative objects, and explain as this unique dataset, combined with other data available at different wavelengths, will be used to study the effects of the cluster environment on galaxy evolution.

Research area

HI galaxy science

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