

The Third National Workshop on the SKA Project - The Italian Route to the SKAO Revolution



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Finding Jellyfish Galaxies with MeerKAT

Thursday, 7 October 2021 12:00 (20 minutes)

Deep galaxy surveys have shown that the star formation rate (SFR) decreases with redshift. The cause of the decline in star formation activity is not yet completely understood. However, it can be studied by investigating how the acquisition and removal of the star-forming gas affect galaxies. The GAs Stripping Phenomena (GASP) survey is conducting this investigation by selecting galaxies that show signs of gas removal due to ram-pressure stripping by their host galaxy clusters. The so-called jellyfish galaxies represent an extreme example of rapid galaxy transformation due to their environment. The work presented here will focus on the neutral gas (HI) phase in the prototypical jellyfish galaxies within various clusters observed as part of the MeerKAT Galaxy Cluster Legacy Survey. In this presentation, we discuss HI content in these galaxies to determine the onset of gas stripping in different cluster environments.

Research area

HI galaxy science

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