

Title of Research: Observational Studies of Interacting Galaxies in Clusters

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We invite applications for a postdoctoral position in the study of interacting galaxies in clusters, in particular, millimeter/submm observations of galaxies in nearby clusters experiencing ram pressure stripping.

Ram pressure stripping is an important gas removal and star formation quenching mechanism in sufficiently dense environments. In high mass clusters like Coma, spirals can be completely stripped. In medium mass clusters like Virgo, spirals are generally partly stripped, but dwarf galaxies get completely stripped, leading to dI-dE transformation

In order to understand the impact of stripping as gas removal and SF quenching mechanism throughout the universe, we need to better understanding of the efficiency of stripping. It is particularly important to learn how molecular gas responds during stripping. Recent observational facilities such as ALMA have provided unprecedented opportunities to study these processes in detail and compare with modeling results.

Potential candidates with interests in observational studies of morphology and dynamics of galaxies and interstellar medium, and have experience in observations of nearby galaxies are encouraged to consider this opportunity. We are particularly interested in candidates who have experiences with millimeter/submm interferometry observations.

