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Red disk-like galaxies in the large scale structure

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Spiral galaxies are typically classified as star-forming, which is associated with their blue color. They are usually found in less dense regions. Their counterparts, red elliptical galaxies, which are usually passive, are typically found in overdense regions. Red and disk-like galaxies, on the other hand, are passive but retain a spiral disk structure. These galaxies are relatively rare, and their origin and place in the cosmic web are still debated. Some researchers find that their clustering properties are similar to those of passive ellipticals, while others find that they prefer underdense regions.

In this talk, we will present studies on the nature and location of red disk-like galaxies in the cosmic web as observed in the VIPERS survey. Additionally, we will examine their clustering properties and explore how they can be studied using upcoming LSST data.

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