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Title: The Arecibo Pisces-Perseus Supercluster Survey: Declination strip 23

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Abstract

We report on results of the Arecibo Pisces-Perseus Supercluster Survey (APPSS) along and near declination 23 degrees. APPSS is a targeted HI survey using the L-band wide receiver at the NAIC Arecibo observatory. It is designed to detect infall onto the Pisces-Perseus Supercluster (PPS) using a statistical comparison to models of the peculiar velocity flow field. We have investigated a subset of 67 galaxies in the PPS sky region along declination 23 degrees. For detected galaxies we have determined their systemic velocity, line width, integrated flux density, and HI mass. We will illustrate HI spectral properties of interesting detections in our region and will compare them with available optical and UV data from SDSS and the GALEX archives. We will also describe the data reduction process and the ongoing collaboration among faculty and undergraduate students of the Undergraduate ALFALFA Team.

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