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The Arecibo Pisces-Perseus Supercluster Survey: Declination Strips 27 and 29, and Comparison to Cosmological Simulations ()

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The Arecibo Pisces-Perseus Supercluster Survey (APPSS) will provide strong observational constraints on the infall rate onto the main filament of the Pisces-Perseus Supercluster. The survey data consist of HI emission-line galaxies in the PPS region, obtained primarily at the Arecibo Observatory. Here we present data from Declination strips 27 and 29, which include 308 target galaxies, and describe our method for deducing the dark matter distribution in the filament from galaxy peculiar velocities by comparison to similar filaments in the Millennium simulation. This work has been supported by NSF grants AST-1211005 and AST-1637339.

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