

**Distant IR-luminous Galaxies and large-scale structure from the
SWIRE survey**

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Abstract

The Spitzer Wide Area Infrared Extragalactic Survey (SWIRE) is the largest extragalactic survey performed by Spitzer, covering 45 square degrees in all seven imaging bands for a total observing time of 890 hours. The goals of SWIRE are to study the cosmological evolution of luminous infrared galaxies over $0 < z < 3$, and to relate this evolution to that of the underlying dark matter distribution. In this talk, I present new results from SWIRE on the redshift evolution of obscured starbursts and AGN at $z > 1$ as a function of both redshift and luminosity, and compare their clustering amplitudes to predictions from models to study the earliest growth stages of the densest large scale structures in the local Universe.