

PHYSICS AND ASTRONOMY COLLOQUIUM

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From the Fourge to the Fire -- Galaxy Evolution Over 12 Billion Years

ZFOURGE and ZFIRE are sensitive surveys that track how galaxies assemble over the past 12 billion years. ZFOURGE identifies and measures cosmological distances to approximately 70,000 objects using observations at near-infrared wavelengths from the Magellan Telescope and Hubble Space Telescope. ZFIRE selects galaxies from ZFOURGE for spectroscopic follow-up with the Keck Observatory to measure how baryons cycle between stars, galactic winds, and the Inter-Stellar Medium (ISM). Here I highlight our results that include mapping how galaxies are distributed in the distant universe, taking a census of galaxies' spectral properties over cosmic time, and determining if a galaxy's evolution depends (or not) on its neighbors.



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