Abstract Submitted for the CAL09 Meeting of The American Physical Society

RIN, University of California, Santa Cruz, DEEP TEAM — The newest camera on the Hubble Space Telescope (HST), Wide Field Camera 3 (WFC3), opens a new window into the Universe. WFC3's two channels (UVIS and IR) provide HST with improved imaging capabilities in the ultraviolet and near-infrared wavelengths and allow for clearer and more detailed images of the universe compared to previous

generations of instruments. A review of instrument specifications, features, and operation of the IR and UVIS channels work is provided. Advancements of WFC3 are described, including enhancements of CCD and IR detector technology. WFC3 has

An Overview of Hubble's Newest Addition: WFC3 LUCY MCLAU-

many benefits and few drawbacks compared to past and future instruments. With improved spatial resolution, a large field of view, and reduced noise, WFC3 is capable of reaching many scientific goals for the first time. New science goals include studies of galactic evolution and improved resolution of high redshift galaxies. I will illustrate the capabilities of WFC3 with specific examples relating to the study of galaxy formation.

Lucy McLaurin University of California, Santa Cruz

Date submitted: 19 Oct 2009 Electronic form version 1.4