**THE 2 MS CDF-N SURVEY AND THE 250 KS E-CDF-S SURVEY: IMPROVED POINT-SOURCE CATALOGS**

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**CDF-N**

**Two-stage source-detection approach:**

-- 1. wavdetect run at 1E-5 ➔ liberal candidate sources
-- 2. no-source probability cut ➔ reliable final sources

*Sophisticated and reliable X-ray photometry extraction*

*~1800 (~500 new) sources detected in the two fields with lots of info:*

-- X-ray positions, counts, fluxes, luminosity
-- multiwavelength identifications, redshifts
-- source classifications, observed AGN and galaxy source densities

*A factor of ~1.5-2 improvement in on-axis flux limits than before*

*Catalogs, images, and data products publicly available at*

-- http://www2.astro.psu.edu/users/niel/hdf/chandra.html

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**PHOTOMETRIC REDSHIFTS IN THE HAWAII-HUBBLE DEEP FIELD-NORTH (H-HDF-N)**

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**Photo-z for sources in the entire (~0.4 deg$^2$) H-HDF-N**

Based on PSF-matched broadband (U band to IRAC 4.5 μm) photometry

*A total of 131,678 sources:*

-- AGN/galaxy/star classification
-- $\sigma_{NMAD} = 0.029$ for non-X-ray sources
-- $\sigma_{NMAD} = 0.035$ for X-ray sources

*Catalog (multi-band photometry plus photo-z) publicly available*