

The J1030 deep survey: an INAF legacy field for AGN

Wednesday, October 10, 2018 5:00 PM (15 minutes)

I will present the status of on-going, deep multi-band observations in the field around the $z=6.31$ QSO SDSS J1030+0524. These include a large program with Chandra, deep JVLA observations, and a strategic LBT program for optical spectroscopy, all with INAF PI-ship. Additional imaging and spectroscopic coverage is provided among others by HST, VLT/MUSE, Keck and Spitzer data.

The J1030 field is currently the 4th deepest X-ray survey and one of the few deep radio fields observed at $\sim uJy$ depth. We are collecting and organizing all multi-band data in a public database that can be effectively exploited by our AGN community.

Some examples of early results from these data will be briefly shown, including i) the discovery of a proto-cluster at $z=1.7$ around a Compton-thick FRII radio-galaxy and ii) the first spectroscopic confirmation of a few companion galaxies at the redshift of SDSS J1030+0524.

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