

# Analyses of the 2dF Deep Field

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**Abstract.** We present comprehensive analyses performed on the 2dF deep field to show that high redshift extragalactic objects can be and in many cases are physically associated with low redshift extragalactic objects and that consequently redshifts are at least partly intrinsic and therefore not entirely due to doppler shift. We present observational, statistical, and theoretical arguments to support this claim.

We begin with technical and historical accounts of the interpretation of extragalactic redshifts and of observations of ejection and possibly related phenomena in galaxies. We next present the technical and logistical details of the computer-based work done to prepare for and perform the various analyses. We then give the detailed results of the testing done on the 2dF deep field as a whole, followed by detailed human-performed multi-wavelength analyses of individual quasar/galaxy systems that were detected by our computer algorithm.

**Keywords:** quasars, extragalactic redshifts