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Impact of photometric redshifts on cluster detection in the DC2 simulation

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We present here the impacts of redshift uncertainties on galaxy cluster detection using the *Wavelet Z Photo-metric* (WaZP) Cluster Finder on the DC2 Simulation. This is evaluated considering three redshift cases with different levels of complexity: true redshifts, redshifts with gaussan noise and photometric redshifts using BPZ. By comparing the clusters detected in each with the simulation dark matter halos we characterize the cluster selection function, miscentering, redshift and mass proxy estimation.

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