Evolution of Galaxy Interactions and Clustering in the VIDEO Survey

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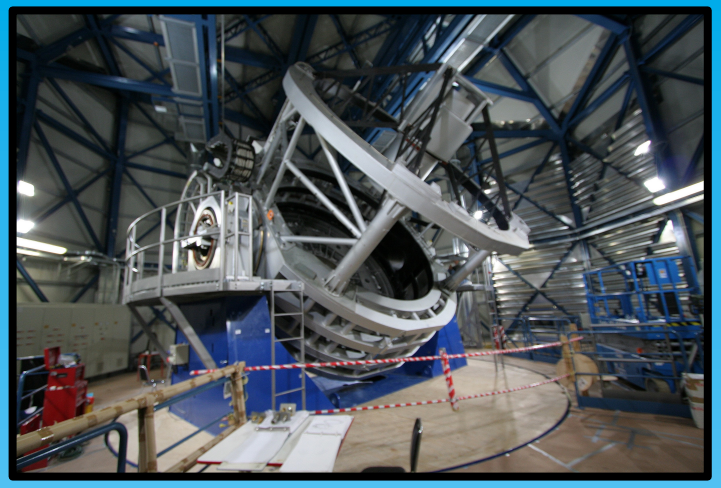
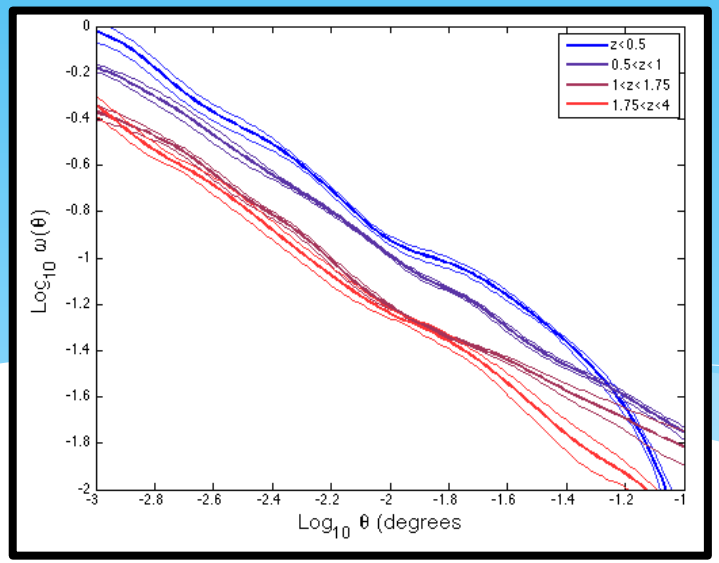
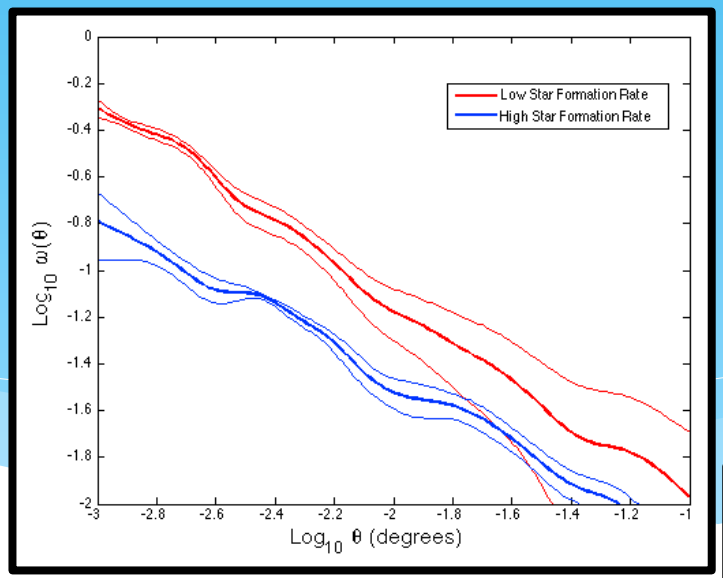


The VISTA Telescope, credit Martin Cullum

- The VISTA Deep Extragalactic Observations (VIDEO) survey: currently 500,000 galaxies, 1 sq deg, up to K~23.5 and z~4
- High quality photometric redshifts allows probing of clustering evolution and other behaviours as a function of environment over cosmic time
- We use a new non-parametric approach to calculating the two-point correlation function and extract key parameters such as bias for a range of scenarios
- In particular the evolution of the cross-correlation between massive central galaxies and smaller satellite galaxies is shown to be highly dependent on the SSRF of the satellite galaxy, giving insight to quenching processes from infall





The VISTA Deep Extragalactic Observations (VIDEO) survey, Jarvis M. et al., 2012, MNRAS, 428, 1281