

VST in the era of the large sky surveys



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OmegaWINGS wide-field survey of nearby galaxy clusters.

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The Wide-field Nearby Galaxy-cluster Survey (WINGS) is a wide-field multi-wavelength survey of X-ray selected clusters at $z = 0.04\text{--}0.07$.

OmegaWINGS is the wide-field extension of WINGS based on VST/OmegaCAM B- and V- observations. For each cluster, we covered a 1 sqdeg field to include the whole virial region and to extend out into the infall cluster region. A large spectroscopic follow-up campaign targeted all 46 OmegaWINGS clusters with AAOmega-AAT.

I will present OmegaWINGS data and review the main scientific results that we have obtained so far; I will then present GASP, an ongoing follow-up project aimed at studying GAs Stripping Phenomena in galaxies that is based on an ESO Large Programme with MUSE at the VLT and on complementing observing campaigns with JVLA, APEX, and ALMA.

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