



The Widefield ASKAP L-band Legacy All-sky Blind survey (WALLABY)

Bi-Qing For^{*(1,2)}

- (1) ICRAR, The University of Western Australia; e-mail: biquing.for@uwa.edu.au
- (2) ARC Centre of Excellence for All Sky Astrophysics in 3 Dimensions (ASTRO 3D)

Environment plays an important role in the evolution of gas contents and star formation in galaxies. Observations have shown that satellite galaxies are HI deficient as a function of decreasing distance to their host galaxy and star formation is suppressed in dense environment. Most studies have focused on dense cluster environment in part due to sensitivity/time factor vs galaxy sample size.

The Widefield ASKAP L-band Legacy All-sky Blind survey (WALLABY) is one of the key science surveys of ASKAP. The aim of WALLABY is to use the powerful widefield phase-array technology of ASKAP to observe 15,000 sqdeg of the Southern Hemisphere in 21-cm line of neutral hydrogen at 30 arcsec resolution and is predicted to obtain images of 250,000 galaxies. We also aim to produce postage stamp cubelets of selected galaxies in 10 arcsec resolution. WALLABY will allow us to explore some of the physical mechanisms unbiasedly in different environments. The full survey has begun in late 2022. In this talk, I will give an overview of the survey, an update of the current status and recent science highlights.