

HI drift scan survey

This project makes use of the FAST 19-beam receiver to map the HI sky of the local Universe. The sky coverage is similar to that of the Commensal Radio Astronomy FAST Survey (CRAFTS) project, but we focus more on the area not covered by the ALFALFA survey. Our survey is deeper than that of CRAFTS in many regions. However, this project is carried during the idle time when there are no other projects in the telescope schedule, thus the actual integration time and sensitivity are different for different regions. The major science goal of this project is to search for HI galaxies in the local universe, especially the so call “dark galaxies” that have no optical counterparts.