

FAST Proposal Coverpage

Last updated: 01/10/2019

Project Name:

HI content of massive red spirals

Project Summary:

(A 1 paragraph summary of your project, including its scientific goals and how you will address them. This information will be potentially public.)

To understand how massive red spirals form and quench their star formation, we propose to use FAST to observe 113 massive red spirals, which have optical photometric and spectroscopic properties from SDSS, but are not in the region of ALFALFA survey. To achieve a similar noise level to the ALFALFA survey, we plan to perform 4 drift scans for each of our target, which makes an effective integration time of ~ 50 s. In total, we require 5650 seconds observational time in drift mode.