

FAST Proposal Coverpage

Last updated: 01/10/2019

Project Name:

(A 1-line title for your project)

Observe OH absorption with FAST

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.)

OH absorption is currently the only viable way to detect OH molecules in normal galaxies at cosmological distances; however, there have been only a few (< 10) detected OH absorbers up to date and is hard to put a statistically robust constraint on OH column densities in distant galaxies. Therefore, we propose to use 12.5 hr (including overhead) FAST time to observe a sample of 8 radio sources with HI absorption detections. We aim to detect new OH absorptions or place a strong upper limit to OH column densities of these systems.