

Proposal Abstract:

FRBs are bright millisecond-duration bursts that are cosmological in origin. It can be classified into repeating and non-repeating FRB. Several FRBs have been first discovered by FAST. In this proposal, we propose to take the observations at 5 high-DM FRBs discovered by FAST, which have similar features to repeating FRBs. We would like to search for the repeating bursts from these FAST-discovered FRBs to identify potential repeating FRBs, which are inaccessible to other telescopes. If identified to be repeating, they would be an extraordinarily important supplement for the repeating FRB with high DM, which can provide rich information for the source environment and the intergalactic medium (IGM). Also, they will provide stronger constraints on the burst rate of these FAST-discovered FRBs.