

Proposal Abstract:

Fast Radio Bursts (FRBs) are mysterious radio flashes of unknown physical origin in galaxies, probably related to massive star collapse or activities of degenerate stars. Some of fast radio bursts may be produced in globular clusters, such as FRB 20200120E in M81. There are hundreds of globular clusters in the nearby galaxy M31. We here propose to make another shooting to M31 using the FAST, to catch probably existing radio transients such as FRBs from the globular clusters of M31. In the meantime, the data we collected towards M31 can also be used to detect giant radio pulses from bright pulsars in M31. Any pulses or radio bursts detected would provide valuable information for the intergalactic medium between the M31 and our Milky Way.