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Abstract:

Fast Radio Burst (FRB) is one of most fascinating astronomical discoveries during the recent decade. Polarization measurements are potential tools to reveal the origin(s) of FRB. We propose to monitor two high Galactic latitude FRBs to study their polarization properties, using the FAST. These two FRBs exhibit similar properties with a known active repeater (FRB 121102), suggesting that they may share common origin and environment. The sources do not overleap with the target sources of the FAST FRB KSP. This project intends to obtain a large sample of sub-pulse with polarization measurement, then reveal the nature of FRB source and surrounding environment.