Proposal Abstract:

Most of jet-ejecting X-ray binaries (XBs) (microquasars, MQ) have displayed the quasi-periodic oscillation (QPO) in X-rays, with a period of a few ms to tens of seconds, but the radio QPO has been detected only in two MQs. Investigating short-term variability in microquasars across timescales ranging from milliseconds to hours in the radio band has provided invaluable insights into their physical properties. The variability in MQs offers a unique opportunity to probe the characteristics of the compact object and its relativistic jets. For example, detecting radio pulsations enables the determination of the rotational period of neutron stars, providing critical information about the nature of the compact star. Additionally, QPOs observed in the radio band are believed to be directly connected to the behaviour of relativistic jets. Therefore, searching for the radio-QPO in MQs is in its very initial stage, and the continuation of the search certainly will provide important observational clues for understanding the structure, dynamics, and physical processes of jets in MQs.