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Abstract:

The Commensal Radio Astronomy FAST Survey (CRAFTS) has discovered binary pulsar and millisecond pulsars. We plan to observe 6 binary and 4 MSPs systems who are lack of dedicated high cadence follow-up timing observations. In the past session, we have conducted an initial timing campaign and solved their spin-down rates. In a few years, this long-term monitoring project can help us estimate the total mass of these pulsar systems, astrometric parameters (parallax, proper motion), orbital parameters, and relativistic effects in binary system.