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Abstract:

Half pulse, which has an unusual sharp edge on the subpulse, is expected to happen during pulsar nulling, and it is very important to understand the pulse radio emission. To date, there are only two half-pulse candidates reported by Kloumann and Rankin (2010), and the profile of half pulses were not published in their paper. In our latest FAST observation, one half-pulse candidate was found in PSR J1758+3030. Then three pulsars were carefully selected to observe the half pulse using FAST, and 11 hours were expected in total.