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Abstract:

We propose to observe 13 pulsars (selected basing on Basu et al. 2019, divided into 4 drifting types, None of them have been observed by FAST before), to get their single pulses and make an accurate study of their sub-pulse drifting pattern. Sub-pulse drifting is closely related to discharging sparks' movement on pulsar surface, and we'd like to see if there are particular discharging positions on pulsar surface, and analyze the related radiation geometry/physics.