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Proposal Abstract:

We propose to do scintillation studies of seven young pulsars associated with pulsar wind nebula (PWN. We aim to update the basic scintillation parameters and search for the scintillation arc. Given the spectacular sensitivity of FAST, we may be able to see different layers of PWN. Moreover, we should obtain the transverse velocity of pulsars from the scintillation velocity. This would help us to understand the evolution of massive stars and the formation of pulsars. On the other hand, polarization studies of these young pulsars are also promising, which may shed light on fast radio burst origin.