

PID:PT2022_0133

Abstract:

Nulling is the phenomenon that the pulsed emission is observed to abruptly switches off from one to thousands of pulse periods. Mode changing is another kind of emission varieties in those pulsars which have two or more emission states. After many years since the nulling and mode changing were detected, the emission physics of them are still unclear. The investigation of the single pulse will help us to unravel the complex inner workings of the pulsar emission mechanism. We processed the data and preliminarily analysed the single pulse variation. PSRs J0210+4238 ,J1907-1019 show nulling and the pulse profile of PSR J0552+4111 shows a variety of components. So we apply for longer observations on three pulsars, PSRs J0210+4238, J0552+4111 and J1907-1019, in order to carry out studies of single pulses.