

ABSTRACT

The present disclosure relates to a downlink communication method, apparatus and device, and a storage medium. The downlink communication method comprises: receiving first information, wherein the first information is used for configuring a channel measurement resource (CMR), and the CMR comprises N non-zero power channel state information reference signal (NZP CSI-RS) resources, N being a positive integer greater than 1; determining unified transmission configuration indication (TCI) states, which correspond to physical downlink shared channels (PDSCHs) and/or demodulation reference signals (DMRSs) corresponding to the PDSCHs, to be M sets of unified TCI states, M being a positive integer greater than 1, and M being less than or equal to N ; and using the M sets of unified TCI states to receive the PDSCHs and/or the DMRSs corresponding to the PDSCHs. In the present disclosure, the number of NZP CSI-RS resources comprised in one channel measurement resource is configured to be multiple, and it is determined that a plurality of sets of unified TCI states are used to receive downlink channels or reference signals, thereby improving the communication performance of a downlink.

FIG. 2