

ABSTRACT

The present application relates to the field of mobile communications. Disclosed are a CSI reporting method and apparatus, a precoding matrix determination method and apparatus, and a device. The CSI reporting method comprises: sending an uplink reference signal to a network device; receiving beamformed downlink pilot signals that are sent by the network device at T consecutive moments; according to the downlink pilot signals, estimating downlink effective channel information corresponding to the T consecutive moments; according to the downlink effective channel information, determining CSI corresponding to the T consecutive moments; and reporting the CSI to the network device, wherein the CSI is used by the network device to calculate a precoding matrix for downlink data transmission at a moment t. In the present application, a network device can calculate precoding matrixes at different moments in the future according to CSI reported once by a terminal device. A terminal device frequently reporting CSI due to rapid movement is avoided, while the data transmission performance is ensured, thereby reducing the period of the terminal device reporting CSI and decreasing the uplink feedback overhead of the terminal device.

FIG. 2