

COMMUNICATION METHOD AND APPARATUS

ABSTRACT

A communication method and apparatus are provided to enable PUSCH transmission over Z antenna ports. When Z is small, the method is applicable to more prevalent terminals with a small quantity of uplink transmit antennas, thereby reducing terminal costs. The method includes: A terminal transmits a first physical uplink shared channel PUSCH over Z antenna ports. The Z antenna ports are precoded based on a third precoding matrix. The third precoding matrix includes a first precoding matrix and/or a second precoding matrix, or includes a submatrix of the second precoding matrix. Z is a positive integer greater than 1. The first precoding matrix is a precoding matrix for PUSCH transmission over K antenna ports, and K is a positive integer. The second precoding matrix is a precoding matrix for PUSCH transmission over Y antenna ports, where $Y = 2^X$, and X is a positive integer. For example, $K = 1, Y = 2$, and $Z = 3$. Alternatively, $Y = 4$, and $Z = 3$.

Fig. 2