

Abstract

Disclosed in the embodiments of the present application are a method for determining an uplink MIMO transmission codeword and an apparatus therefor, which can be applied to a communication system. The method comprises: determining 4Tx and/or 2Tx candidate codewords for uplink MIMO transmission, wherein the candidate codewords comprise at least one of a first candidate codeword for antenna full-coherent transmission, a second candidate codeword for antenna partial-coherent transmission and a third candidate codeword for antenna non-coherent transmission; and on the basis of the candidate codewords, determining a first codeword for antenna partial-coherent transmission and/or a second codeword for non-coherent transmission for 8Tx L-layer uplink MIMO transmission. In the embodiments of the present application, a high-dimensional 8Tx antenna partial-coherent transmission codeword or non-coherent transmission codeword can be constructed on the basis of a low-dimensional transmission codeword, such that uplink MIMO supports the requirements for 8Tx 1-layer to 8-layer transmission, thereby further enhancing an uplink MIMO technique.

Fig. 2