COMMUNICATION APPARATUS AND COMMUNICATION METHOD FOR REDUCED DIMENSION CSI FEEDBACK

ABSTRACT

Communication devices and methods for reduced dimension CSI feedback are provided. One exemplary embodiment provides a first communication apparatus comprising a receiver, which in operation, receives a PPDU from a second communication apparatus; circuitry, which in operation, measures CSI based on the PPDU, and selects a first subset of elements from a plurality of elements of a CSI matrix, wherein each element represents the CSI measured at a receive antenna of the first communication apparatus corresponding to a transmit antenna of the second communication apparatus; and a transmitter, which, in operation, transmits a frame reporting the selected subset of elements to the second communication apparatus.

FIG. 7