

What is claimed is:

1. A method for reporting channel state information, CSI, comprising:

determining, by a terminal device, a channel quality indicator, CQI, measurement mode to be used under a CSI reporting mode without precoding matrix indicator, PMI (S201); and

5 performing, by the terminal device, CQI estimation based on the CQI measurement mode (S202) and reporting an estimated CQI to a network device (S203);

wherein the CQI measurement mode is a CQI estimation based on a plurality of beamformed channel state information reference signal, CSI-RS, ports;

10 wherein performing, by the terminal device, the CQI estimation based on the CQI measurement mode comprises:

performing, by the terminal device, the CQI estimation based on downlink channel information acquired from target CSI-RS ports, wherein the target CSI-RS ports are at least two CSI-RS ports selected by the terminal device from beamformed CSI-RS ports; and

15 reporting, by the terminal device, a quantity of the target CSI-RS ports as rank indication, RI.

2. The method according to claim 1, wherein before the terminal device determines the CQI measurement mode to be used under the CSI reporting mode without PMI, the method further comprises:

20 receiving, by the terminal device, first indication information from the network device, wherein the first indication information is used for indicating to use the CSI reporting mode without PMI; and

determining, by the terminal device, to use the CSI reporting mode without PMI according to the first indication information.

25 3. The method according to claim 1 or 2, wherein before the terminal device determines the CQI measurement mode to be used under the CSI reporting mode without PMI, the method further comprises:

receiving, by the terminal device, second indication information from the network device, wherein the second indication information is used for indicating the CQI measurement mode used for the CQI estimation under the CSI reporting mode without PMI; and

30 wherein determining, by the terminal device, the CQI measurement mode to be used under the CSI reporting mode without PMI, comprises: determining, by the terminal device, the CQI

measurement mode to be used under the CSI reporting mode without PMI from at least one CQI measurement mode according to the second indication information.

4. A method for reporting channel state information, CSI, comprising:

receiving, by a network device, channel quality indicator, CQI, and rank indication, RI,

5 reported from a terminal device, wherein the CQI is acquired by the terminal device through performing CQI estimation according to a CQI measurement mode under a CSI reporting mode without precoding matrix indicator, PMI;

wherein the CQI measurement mode is a CQI estimation based on a plurality of beamformed channel state information reference signal, CSI-RS, ports;

10 wherein the CQI is acquired by the terminal device through performing CQI estimation according to the CQI measurement mode under the CSI reporting mode without precoding matrix indicator, PMI, comprises: performing, by the terminal device, the CQI estimation based on downlink channel information acquired from target CSI-RS ports, wherein the target CSI-RS ports are at least two CSI-RS ports selected by the terminal device from beamformed CSI-RS
15 ports; and

wherein the RI is a quantity of the target CSI-RS ports.

5. The method according to claim 4, wherein before the network device receives the CQI reported from the terminal device, the method further comprises:

20 sending, by the network device, first indication information to the terminal device, wherein the first indication information is used for indicating to use the CSI reporting mode without PMI.

6. The method according to claim 4 or 5, wherein before the network device receives the CQI reported from the terminal device, the method further comprises:

25 sending, by the network device, second indication information to the terminal device, wherein the second indication information is used for indicating the CQI measurement mode used for the CQI estimation under the CSI reporting mode without PMI.

30 7. A terminal device, comprising one or more processors, one or more memories, one or more transceivers, and one or more programs; wherein the one or more programs are stored in the one or more memories and configured to be executed by the one or more processors, and the one or more programs comprise instructions for executing acts in the method according to any one of claims 1-3.

8. A network device, comprising one or more processors, one or more memories, one or more transceivers, and one or more programs; wherein the one or more programs are stored in the one or more memories and configured to be executed by the one or more processors, and the one or more programs comprise instructions for executing acts in the method according to any

5 one of claims 4-6.