CLAIMS

1. A wireless communication method, comprising:

determining, by a terminal device, a mode for reporting measurement results for a plurality of reference signals; and

reporting, by the terminal device according to the determined mode and the measurement results, each of a plurality pieces of reporting information, corresponding to a respective one of the plurality of reference signals, comprising a Rank Indicator (RI),

wherein the mode determined by the terminal device is a first mode or a second mode;

in the first mode, a value of the RI in the each of the plurality pieces of reporting information is less than or equal to a first predetermined value; and

in the second mode, a value of a sum of values of the RIs in the plurality pieces of reporting information is less than or equal to a second predetermined value,

wherein determining, by the terminal device, the mode for reporting the measurement results for the plurality of reference signals comprises:

when the terminal device does not receive configuration information configured by a network device for the mode, determining, by the terminal device, to report the measurement results for the plurality of reference signals by using the first mode.

2. The method of claim 1, wherein each of the plurality of reference signals is from a respective one of a plurality of transmission nodes serving the terminal device or a respective one of a plurality of downlink sending beams.

3. The method of claim 1 or 2, wherein the first predetermined value is less than or equal to at least one of a value corresponding to a capability of the terminal device or a number of ports, configured for the terminal device, corresponding to each of the plurality of reference signals.

4. The method of any one of claims 1-3, wherein the second predetermined value is

less than or equal to the value corresponding to the capability of the terminal device.

5. The method of any one of claims 1-4, before determining, by the terminal device, the mode for reporting the measurement results for the plurality of reference signals, further comprising:

receiving, by the terminal device, configuration information, the configuration information being used to configure the mode.

6. The method of claim 5, wherein the configuration information is used to configure the terminal device to report the measurement results for the plurality of reference signals by using the first mode.

7. The method of claim 5, wherein the configuration information is used to configure the terminal device to report the measurement results for the plurality of reference signals by using of the second mode.

8. The method of claim 7, wherein the configuration information further contains the second predetermined value.

9. The method of claim 7, wherein the configuration information further contains the value of the RI in the each of the plurality pieces of reporting information.

10. The method of claim 7, wherein the value of the RI in the each of the plurality pieces of reporting information in the second mode is a third predetermined value.

11. The method of claim 10, wherein the third predetermined value is obtained by lower rounding a value obtained by dividing the value corresponding to the capability of the terminal device by a number of the plurality of reference signals; or,

the third predetermined value is equal to a minimum value among the value corresponding to the capability of the terminal device and the number of ports corresponding to the plurality of reference signals.

12. The method of any one of claims 5-11, wherein configurations of different

reference signals in the configuration information are distinguished through indexes of the different reference signals.

13. The method of any one of claims 5-11, wherein the configurations of different reference signals in the configuration information are distinguished through indexes of reporting information corresponding to the different reference signals.

14. The method of any one of claims 1-13, wherein reporting, by the terminal device, the each of the plurality pieces of the reporting information, corresponding to the respective one of the plurality of reference signals, comprising the RI comprises:

sending, by the terminal device, the each of the plurality pieces of reporting information to a sender of the respective one of the plurality of reference signals.

15. The method of any one of claims 1-13, wherein reporting, by the terminal device, the each of the plurality pieces of the reporting information, corresponding to the respective one of the plurality of reference signals, comprising the RI comprises:

sending, by the terminal device, a first message to a sender of at least one first reference signal in the plurality of reference signals, the first message comprising a piece of reporting information, corresponding to the first reference signal, comprising a RI and

the first message further comprising a RI in a piece of reporting information corresponding to at least one second reference signal in the plurality of reference signals.

16. A terminal device, comprising a processing unit and a communication unit, wherein

the processing unit is configured to determine a mode for reporting measurement results for a plurality of reference signals; and

the communication unit is configured to report, according to the determined mode and the measurement results, each of a plurality pieces of reporting information, corresponding to a respective one of the plurality of reference signals, comprising a Rank Indicator (RI),

wherein the mode determined by the processing unit is a first mode or a

second mode;

in the first mode, a value of the RI in the each of the plurality pieces of reporting information is less than or equal to a first predetermined value; and

in the second mode, a value of a sum of values of the RIs in the plurality pieces of reporting information is less than or equal to a second predetermined value,

wherein the processing unit is further configured to: when the terminal device does not receive configuration information configured by a network device for the mode, determine to report the measurement results for the plurality of reference signals by using the first mode.

17. A terminal device, comprising a processor, a memory and a transceiver, wherein the processor can control the transceiver for external communication, and the processor can call the program codes stored in the memory to execute the following operations:

determining a mode for reporting measurement results for a plurality of reference signals; and

reporting, according to the determined mode and the measurement results, each of a plurality pieces of reporting information, corresponding to a respective one of the plurality of reference signals, comprising a Rank Indicator (RI),

wherein the mode determined by the processor is a first mode or a second mode;

in the first mode, a value of the RI in the each of the plurality pieces of reporting information is less than or equal to a first predetermined value; and

in the second mode, a value of a sum of values of the RIs in the plurality pieces of reporting information is less than or equal to a second predetermined value,

wherein determining, by the terminal device, the mode for reporting the measurement results for the plurality of reference signals comprises:

when the terminal device does not receive configuration information configured by a network device for the mode, determining, by the terminal device, to report the measurement results for the plurality of reference signals by using the first mode.

18. A system chip, comprising an input interface, an output interface, a processor and

a memory, which can be connected through an internal communication connecting line, wherein the processor is configured to execute codes stored in the memory, when the codes are executed, the following operations are performed:

determining a mode for reporting measurement results for a plurality of reference signals; and

reporting, according to the determined mode and the measurement results, each of a plurality pieces of reporting information, corresponding to a respective one of the plurality of reference signals, comprising a Rank Indicator (RI),

wherein the mode determined by the processor is a first mode or a second mode;

in the first mode, a value of the RI in the each of the plurality pieces of reporting information is less than or equal to a first predetermined value; and

in the second mode, a value of a sum of values of the RIs in the plurality pieces of reporting information is less than or equal to a second predetermined value,

wherein determining, by the terminal device, the mode for reporting the measurement results for the plurality of reference signals comprises:

when the terminal device does not receive configuration information configured by a network device for the mode, determining, by the terminal device, to report the measurement results for the plurality of reference signals by using the first mode.

19. A non-transitory computer readable storage medium configured to store computer readable instructions, wherein when the computer readable instructions are executed, the wireless communication method according to any one of the claims 1-15 are performed.