

## CLAIMS

1. A method for beam measurement, comprising:

measuring, by a terminal, at least one beam according to measurement configuration information, the measurement configuration information being used in measuring the at least one beam and comprising a measurement identifier (ID), and the measurement ID corresponding to an ID of the at least one beam; and

determining, by the terminal according to a measurement quantity of the at least one beam, at least one of a target beam where the terminal can camp or a target cell where the terminal can camp.

2. The method of claim 1, further comprising:

receiving, by the terminal, the measurement configuration information sent by a network device.

3. The method of claim 1 or 2, wherein the at least one beam comprises a plurality of beams and the plurality of beams belong to a plurality of cells.

4. The method of claim 3, wherein determining, by the terminal, the at least one of the target beam or the target cell according to the measurement quantity of the at least one beam comprises:

determining, by the terminal, measurement quantities of the plurality of cells according to measurement quantities of the plurality of beams; and

determining, by the terminal, the target cell from the plurality of cells according to the measurement quantities of the plurality of cells.

5. The method of any one of claims 1-4, further comprising:

determining, by the terminal according to the measurement quantity of the at least one beam, at least one of: at least one backup beam where the terminal can camp when the target beam is not suitable or at least one backup cell where the terminal can camp when the target cell is not suitable.

6. The method of any one of claims 1-5, wherein determining, by the terminal, the at

least one of the target beam or the target cell according to the measurement quantity of the at least one beam comprises:

determining, by the terminal, the at least one of the target beam or the target cell according to at least one of signal strength or signal quality of the at least one beam.

7. The method of any one of claims 1-6, wherein the measurement configuration information further comprises at least one of:

a frequency priority, a first signal strength threshold, a first signal quality threshold, a second signal strength threshold, or a second signal quality threshold,

wherein the frequency priority is used to indicate a priority of a frequency of a beam or of a frequency of a cell, the first signal strength threshold is used to indicate a minimum threshold of signal strength required for signal transmission of a beam, the first signal quality threshold is used to indicate a minimum threshold of signal quality required for signal transmission of a beam, the second signal strength threshold is used to indicate a threshold at which the terminal starts measuring a beam and the second signal quality threshold is used to indicate a threshold at which the terminal starts measuring a beam.

8. The method of claim 7, wherein determining, by the terminal, the at least one of the target beam or the target cell according to the at least one of the signal strength or the signal quality of the at least one beam comprises:

determining, by the terminal, the at least one of the target beam or the target cell according to at least one of the signal strength or the signal quality of the at least one beam, and at least one of the first signal strength threshold or the first signal quality threshold.

9. The method of claim 8, wherein determining, by the terminal, the at least one of the target beam or the target cell according to the at least one of the signal strength or the signal quality of the at least one beam, and the at least one of the first signal strength threshold or the first signal quality threshold comprises one of:

determining, by the terminal, at least one of a cell set or a beam set according to the signal strength of the at least one beam and the first signal strength threshold; and determining, by the terminal, a cell, that has a maximum signal strength, in the cell set

as the target cell, or determining a cell, that has a beam with a maximum signal strength, in the cell set as the target cell, or determining a beam, that has a maximum signal strength, in the beam set as the target beam,

determining, by the terminal, at least one of a cell set or a beam set according to the signal quality of the at least one beam and the first signal quality threshold; and determining, by the terminal, a cell, that has maximum signal quality, in the cell set as the target cell, or determining a cell, that has a beam with maximum signal quality, in the cell set as the target cell, or determining a beam, that has maximum signal quality, in the beam set as the target beam, or

determining, by the terminal, at least one of a cell set or a beam set according to the signal strength and the signal quality of the at least one beam, and the first signal strength threshold and the first signal quality threshold; and determining, by the terminal a cell, that has maximum signal strength and signal quality, in the cell set as the target cell, or determining a cell, that has a beam with maximum signal strength and signal quality, in the cell set as the target cell, or determining a beam, that has maximum signal strength and signal quality, in the beam set as the target beam.

10. The method of claim 7, further comprising: before determining, by the terminal, the measurement quantity of the at least one beam,

determining, by the terminal, that a signal strength of a cell serving the terminal is less than the second signal strength, or that signal quality of a cell serving the terminal is less than the second signal quality threshold, or that a signal strength of a cell serving the terminal is less than the second signal strength threshold and signal quality of a cell serving the terminal is less than the second signal quality threshold; or

determining, by the terminal, that a signal strength of a beam serving the terminal is less than the second signal strength, or that signal quality of a beam serving the terminal is less than the second signal quality threshold, or that a signal strength of a beam serving the terminal is less than the second signal strength threshold and signal quality of a beam serving the terminal is less than the second signal quality threshold.

11. A method for beam measurement, comprising:

sending, by a network device, measurement configuration information of at least one beam to a terminal, the measurement configuration information being used in

measuring the at least one beam and comprising a measurement identifier (ID), and the measurement ID corresponding to an ID of the at least one beam; and

sending, by the network device, information through at least one of a target beam where the terminal can camp or a target cell where the terminal can camp, the at least one of the target beam or the target cell being determined according to a measurement quantity, obtained by measurement of the at least one beam by the terminal according to the measurement configuration information of the at least one beam, of the at least one beam.

12. The method of claim 11, wherein the at least one beam comprises a plurality of beams and the plurality of beams belong to a plurality of cells.

13. The method of any one of claims 11-12, wherein the measurement configuration information further comprises at least one of:

a frequency priority, a first signal strength threshold, a first signal quality threshold, a second signal strength threshold, or a second signal quality threshold,

wherein the frequency priority is used to indicate a priority of a frequency of a beam or of a frequency of a cell, the first signal strength threshold is used to indicate a minimum value of signal strength required for signal transmission of a beam, the first signal quality threshold is used to indicate a minimum value of signal quality required for signal transmission of a beam, the second signal strength threshold is used to indicate a threshold at which the terminal starts measuring a beam and the second signal quality threshold is used to indicate a threshold at which the terminal starts measuring a beam.

14. A device for beam measurement, comprising:

a measurement module, configured to measure at least one beam according to measurement configuration information, the measurement configuration information being used in measuring the at least one beam and comprising a measurement identifier (ID), and the measurement ID corresponding to an ID of the at least one beam; and

a first determination module, configured to determine at least one of a target beam where a terminal can camp or a target cell where a terminal can camp, according to a measurement quantity of the at least one beam.

15. The device of claim 14, further comprising:  
a receiving module, configured to receive the measurement configuration information sent by a network device.
16. The device of claim 14 or 15, wherein the at least one beam comprises a plurality of beams and the plurality of beams belong to a plurality of cells.
17. The device of claim 16, wherein the first determination module is specifically configured to:  
determine measurement quantities of the plurality of cells according to measurement quantities of the plurality of beams; and  
determine the target cell from the plurality of cells according to the measurement quantities of the plurality of cells.
18. The device of any one of claims 14-17, further comprising:  
a third determination module, configured to determine, according to the measurement quantity of the at least one beam, at least one of: at least one backup beam where the terminal can camp on when the target beam is not suitable or at least one backup cell where the terminal can camp on when the target cell is not suitable.
19. The device of any one of claims 14-18, wherein the first determination module is specifically configured to:  
determine the at least one of the target beam or the target cell according to at least one of signal strength or signal quality of the at least one beam.
20. The device of any one of claims 14-19, wherein the measurement configuration information further comprises at least one of:  
a frequency priority, a first signal strength threshold, a first signal quality threshold, a second signal strength threshold, or a second signal quality threshold,  
wherein the frequency priority is used to indicate a priority of a frequency of a beam or a frequency of a cell, the first signal strength threshold is used to indicate a minimum threshold of signal strength required for signal transmission of a beam, the

first signal quality threshold is used to indicate a minimum threshold of signal quality required for signal transmission of a beam, the second signal strength threshold is used to indicate a threshold at which the terminal starts measuring a beam and the second signal quality threshold is used to indicate a threshold at which the terminal starts measuring a beam.

21. The device of claim 20, wherein the first determination module is further specifically configured to:

determine the at least one of the target beam or the target cell according to at least one of the signal strength or the signal quality of the at least one beam, and at least one of the first signal strength threshold or the first signal quality threshold.

22. The device of claim 21, wherein the first determination module is further specifically configured to:

determine at least one of a cell set or a beam set according to the signal strength of the at least one beam and the first signal strength threshold; and determine a cell, that has a maximum signal strength, in the cell set as the target cell, or determine a cell, that has a beam with a maximum signal strength, in the cell set as the target cell, or determine a beam, that has a maximum signal strength, in the beam set as the target beam, or

determine at least one of a cell set or a beam set according to the signal quality of the at least one beam and the first signal quality threshold; and determine a cell, that has maximum signal quality, in the cell set as the target cell, or determining a cell, that has a beam with maximum signal quality, in the cell set as the target cell, or determine a beam, that has maximum signal quality, in the beam set as the target beam, or

determine at least one of a cell set or a beam set according to the signal strength and the signal quality of the at least one beam, and the first signal strength threshold and the first signal quality threshold; and determine a cell, that has maximum signal strength and signal quality, in the cell set as the target cell, or determine a cell, that has a beam with maximum signal strength and signal quality, in the cell set as the target cell, or determine a beam, that has maximum signal strength and signal quality, in the beam set as the target beam.

23. The device of claim 21, wherein the first determination module is further specifically configured to:

determine a cell set or a beam set according to the signal strength of the at least one beam and the first signal strength threshold; and sort cells in the cell set according to a criterion and determine the target cell according to a sorting result, or sort beams in the beam set according to a criterion and determine the target beam according to a sorting result, or

determine a cell set or the beam set according to the signal quality of the at least one beam and the first signal quality threshold; and sort cells in the cell set according to a criterion and determine the target cell according to a sorting result, or sort beams in the beam set according to a criterion and determine the target beam according to a sorting result, or

determine a cell set or a beam set according to the signal strength and the signal quality of the at least one beam, and the first signal strength threshold and the first signal quality threshold; and sort cells in the cell set according to a criterion and determine the target cell according to a sorting result, or sort beams in the beam set according to a criterion and determine the target beam according to a sorting result;

or, the first determination module is further configured to:

determine a cell set or a beam set according to the signal strength of the at least one beam and the first signal strength threshold; and determine the target cell from the cell set according to frequency priorities or determine the target beam from the beam set according to frequency priorities, the frequency priorities being used to indicate frequency priorities of frequencies of the cells or frequency priorities of frequencies of the beams, or

determine a cell set or a beam set according to the signal quality of the at least one beam and the first signal quality threshold; and determine the target cell from the cell set according to frequency priorities or determine the target beam from the beam set according to frequency priorities, the frequency priorities being used to indicate frequency priorities of frequencies of the cells or frequency priorities of frequencies of the beams, or

determine a cell set or a beam set according to the signal strength and the signal quality of the at least one beam, and the first signal strength threshold and the first signal quality threshold; and determine the target cell from the cell set according to frequency

priorities or determine the target beam from the beam set according to frequency priorities, the frequency priorities being used to indicate frequency priorities of frequencies of the cells or frequency priorities of frequencies of the beams.

24. A device for beam measurement, comprising:

- a first sending module, configured to send measurement configuration information of at least one beam to a terminal, the measurement configuration information being used in measuring the at least one beam and comprising a measurement identifier (ID), and the measurement ID corresponding to an ID of the at least one beam; and

- a communication module, configured to send information through at least one of a target beam where the terminal can camp or a target cell where the terminal can camp, the at least one of the target beam or the target cell being determined according to a measurement quantity, obtained by measurement of the at least one beam by the terminal according to the measurement configuration information of the at least one beam, of the at least one beam.

25. The device of claim 24, wherein the at least one beam comprises a plurality of beams and the plurality of beams belong to a plurality of cells.

26. The device of any one of claims 24-25, wherein the measurement configuration information further comprises at least one of:

- a frequency priority, a first signal strength threshold, a first signal quality threshold, a second signal strength threshold, or a second signal quality threshold,

- wherein the frequency priority is used to indicate a priority of a frequency of a beam or of a frequency of a cell, the first signal strength threshold is used to indicate a minimum threshold of signal strength required for signal transmission of a beam, the first signal quality threshold is used to indicate a minimum threshold of signal quality required for signal transmission of a beam, the second signal strength threshold is used to indicate a threshold at which the terminal starts measuring a beam and the second signal quality threshold is used to indicate a threshold at which the terminal starts measuring a beam.