

CLAIMS

1. A method for channel and interference measurement, applied to a terminal device and comprising:

receiving a first group of reference signal resources; and

measuring a channel corresponding to at least one first reference signal resource and an interference ~~that are~~ corresponding to the at least one first reference signal resource in the first group of reference signal resources, comprising; wherein

determining, the channel and the interference that are corresponding to the first reference signal resource are measured based on quasi co-location QCL information of the first reference signal resource, a first reception parameter; and

measuring, based on the first reception parameter, the channel corresponding to the at least one first reference signal resource and the interference corresponding to the at least one first reference signal resource.

2. The method according to claim 1, wherein the interference comprises a second interference, and the method further comprises:

receiving a second group of reference signal resources, wherein the second group of reference signal resources is used to measure a second interference corresponding to the first reference signal resource.

3. The method according to claim 2, wherein

at least one third reference signal resource has an association relationship with the first reference signal resource, wherein the third reference signal resource is a reference signal resource in the second group of reference signal resources, and the third reference signal resource having an association relationship with the first reference signal resource is used to measure the second interference corresponding to the first reference signal resource.

4. The method according to claim 3, wherein

the second interference corresponding to the first reference signal resource is measured based on the QCL information and the at least one third reference signal resource associated with the first reference signal resource.

5. The method according to claim 4, wherein that the second interference corresponding to the first reference signal resource is measured based on the QCL information and the at least one third reference signal resource associated with the first reference signal resource comprises:

determining, based on the QCL information, a reception parameter used for receiving the at least one third reference signal resource associated with the first reference signal resource;

determining, based on the reception parameter, the at least one third reference signal resource associated with the first reference signal resource; and

determining, based on a received power of the at least one third reference signal resource associated with the first reference signal resource, the second interference corresponding to the first reference signal resource.

6. The method according to any one of claims 2 to 5, further comprising:

based on a channel and an interference that are obtained through measurement by using a target reference signal resource, determining whether to apply a measurement restriction to the target reference signal resource, wherein the target reference signal resource is any one of the first group of reference signal resources or any one of the second group of reference signal resources.

7. The method according to any one of claims 1 to 6, further comprising:

based on the channel and the interference that are obtained through measurement by using the target reference signal resource, determining whether to apply a measurement restriction to the target reference signal resource, wherein the target reference signal resource is any one of the first group of reference signal resources.

8 The method according to any one of claims 1 to 7, wherein ~~that the measuring~~ the channel corresponding to the at least one first reference signal resource ~~is measured based on the quasi-co-location QCL information of the first reference signal resource~~ comprises:

determining, based on the QCL information of the first reference signal resource, a reception parameter used for receiving the first reference signal resource;

receiving the first reference signal resource based on the reception parameter; and

determining, based on a received power of the first reference signal resource, the channel corresponding to the first reference signal resource.

9. A method for channel and interference measurement, applied to a network device and comprising:

transmitting a first group of reference signal resources to a terminal device, wherein

the terminal device is configured to measure a channel corresponding to at least one first reference signal resource and an interference ~~that are~~ corresponding to the at least one first reference signal resource in the first group of reference signal resources, ~~and by measuredetermining,~~ a first reception parameter based on quasi co-location QCL information of the first reference signal resource, and measuring the channel corresponding to the at least one first reference signal resource and the interference ~~that are~~ corresponding to the at least one first reference signal resource based on the first reception parameter.

10. The method according to claim 9, wherein the interference comprises a second interference, and the method further comprises:

transmitting a second group of reference signal resources to the terminal device, wherein the second group of reference signal resources is used to measure a second interference corresponding to the first reference signal resource.

11. The method according to claim 10, wherein

at least one third reference signal resource has an association relationship with the first reference signal resource, wherein the third reference signal resource is a reference signal resource in the second group of reference signal resources, and the third reference signal resource having an association relationship with the first reference signal resource is used to measure the second interference corresponding to the first reference signal resource.

12. The method according to claim 11, wherein

the terminal device is configured to measure, based on the QCL information and the at least one third reference signal resource associated with the first reference signal resource, the second interference corresponding to the first reference signal resource.

13. The method according to claim 12, wherein the terminal device is configured to:

determine, based on the QCL information, a reception parameter used for receiving the at least one third reference signal resource associated with the first reference signal resource;

determine, based on the reception parameter, the at least one third reference signal resource associated with the first reference signal resource; and

determine, based on a received power of the at least one third reference signal resource associated with the first reference signal resource, the second interference corresponding to the first reference signal resource.

14. The method according to claims 10 to 13, wherein the terminal device is further configured to:

based on a channel and an interference that are obtained through measurement by using a target reference signal resource, determine whether to apply a measurement restriction to the target reference signal resource, wherein the target reference signal resource is any one of the first group of reference signal resources or any one of the second group of reference signal resources.

15. The method according to claims 9 to 14, wherein the terminal device is further configured to:

based on the channel and the interference that are obtained through measurement by using the target reference signal resource, determine whether to apply a measurement restriction to the

target reference signal resource, wherein the target reference signal resource is any one of the first group of reference signal resources.

16. The method according to claims 9 to 15, wherein the terminal device is configured to:
determine, based on the QCL information of the first reference signal resource, a reception parameter used for receiving the first reference signal resource;
receive the first reference signal resource based on the reception parameter; and
determine, based on a received power of the first reference signal resource, the channel corresponding to the first reference signal resource.

17. A terminal device, comprising:
a first receiving module, configured to receive a first group of reference signal resources; and
a measurement module, configured to measure a channel corresponding to at least one first reference signal resource and an interference ~~that are~~ corresponding to the at least one first reference signal resource in the first group of reference signal resources; wherein

the measurement module is configured to ~~measure~~ determine a first reception parameter, based on quasi co-location QCL information of the first reference signal resource, ~~, and to measure~~ the channel corresponding to the at least one first reference signal resource and the interference ~~that are~~ corresponding to the at least one first reference signal resource based on the first reception parameter.

18. A network device, comprising:
a first transmitting module, configured to transmit a first group of reference signal resources to a terminal device; wherein

the terminal device is configured to measure a channel corresponding to at least one first reference signal resource and an interference ~~that are~~ corresponding to the at least one first reference signal resource in the first group of reference signal resources, ~~and by determining~~ measure, a first reception parameter based on quasi co-location QCL information of the first reference signal resource, and measuring the channel corresponding to the at least one first reference signal resource and the interference ~~that are~~ corresponding to the at least one first reference signal resource based on the first reception parameter.

19. A terminal device, comprising a memory, a processor, and a wireless communications program stored in the memory and running on the processor, wherein when the wireless communications program is executed by the processor, the steps of the method according to any one of claims 1 to 8 are implemented.

20. A network device, comprising a memory, a processor, and a wireless communications program stored in the memory and running on the processor, wherein when the wireless

communications program is executed by the processor, the steps of the method according to any one of claims 9 to 16 are implemented.