CLAIMS

1. A communication method, performed by a first terminal device or a chip of the first terminal device, the method comprises:

receiving first sidelink control information from a second terminal device, where the first sidelink control information indicates a first priority and a first time-frequency resource, and the first priority is used to determine a first reference signal received power RSRP threshold;

receiving second sidelink control information from a third terminal device, where the second sidelink control information indicates a second priority and a second time-frequency resource, and the second priority is used to determine a second RSRP threshold;

determining a first candidate resource set based on the first RSRP threshold and the second RSRP threshold, where the first terminal device selects a time-frequency resource from the first candidate resource set, and the time-frequency resource is used for physical sidelink shared channel PSSCH transmission and/or physical sidelink control channel PSCCH transmission;

wherein the first sidelink control information is information in an evolved universal terrestrial radio access E-UTRA technology, and the second sidelink control information is information in a new radio NR technology.

2. The method according to claim 1, wherein the method further comprises:

if a ratio of a quantity of resources in the first candidate resource set to a quantity of resources in the resource pool is less than a first threshold, increasing the first RSRP threshold and/or the second RSRP threshold, to redetermine the first candidate resource set to obtain a second candidate resource set.

3. The method according to claim 1 or 2, wherein the ratio of the quantity of resources in the second candidate resource set to the quantity of resources in the resource pool is greater than or equal to a third threshold.

4. The method according to any one of claims 1 to 3, wherein each time when the RSRP threshold is increased, the first RSRP threshold and/or the second RSRP threshold is increased by 3 dB.

5. The method according to any one of claims 1 to 4, wherein the third threshold is less than or equal to the first threshold, and the third threshold is configured by the resource pool, preconfigured, predefined, or indicated by a network device.

6. The method according to any one of claims 1 to 5, wherein the method further comprises:

selecting a time-frequency resource from the second candidate resource set, and

sending information to a fourth terminal device on the time-frequency resource.

7. The method according to any one of claims 1 to 6, wherein the first sidelink control

information and the second sidelink control information indicate a same time-frequency resource.

8. An apparatus, comprising:

a memory storing instructions; and

at least one processor in communication with the memory, the at least one processor configured, upon execution of the instructions, to perform the following steps:

receiving first sidelink control information from a second terminal device, where the first sidelink control information indicates a first priority and a first time-frequency resource, and the first priority is used to determine a first reference signal received power RSRP threshold;

receiving second sidelink control information from a third terminal device, where the second sidelink control information indicates a second priority and a second time-frequency resource, and the second priority is used to determine a second RSRP threshold;

determining a first candidate resource set based on the first RSRP threshold and the second RSRP threshold, where the first terminal device selects a time-frequency resource from the first candidate resource set, and the time-frequency resource is used for physical sidelink shared channel PSSCH transmission and/or physical sidelink control channel PSCCH transmission;

wherein the first sidelink control information is information in an evolved universal terrestrial radio access E-UTRA technology, and the second sidelink control information is information in a new radio NR technology;

if a ratio of a quantity of resources in a candidate resource set to a quantity of resources in the resource pool is less than a first threshold, increasing the first RSRP threshold and/or the second RSRP threshold, to redetermine the candidate resource set to obtain a second candidate resource set.

9. The apparatus according to claim 8, wherein the apparatus is further configured to perform:

if a ratio of a quantity of resources in the first candidate resource set to a quantity of resources in the resource pool is less than a first threshold, increasing the first RSRP threshold and/or the second RSRP threshold, to redetermine the first candidate resource set to obtain a second candidate resource set.

10. The apparatus according to claim 8 or 9, wherein the ratio of the quantity of resources in the second candidate resource set to the quantity of resources in the resource pool is greater than or equal to a third threshold.

11. The apparatus according to any one of claims 8 to 10, wherein each time when the RSRP threshold is increased, the first RSRP threshold and/or the second RSRP threshold is increased by 3 dB.

12. The apparatus according to any one of claims 8 to 11, wherein the third threshold is less than or equal to the first threshold, and the third threshold is configured by the resource pool,

preconfigured, predefined, or indicated by a network device.

13. The apparatus according to any one of claims 8 to 12, wherein the apparatus is further configured to perform:

selecting a time-frequency resource from the second candidate resource set, and

sending information to a fourth terminal device on the time-frequency resource.

14. The apparatus according to any one of claims 8 to 13, wherein the first sidelink control information and the second sidelink control information indicate a same time-frequency resource.

15. A communication apparatus, comprising a processor, wherein the processor is configured to execute a program or instructions stored in a memory, to implement the method according to any one of claims 1 to 7.

16. A communication apparatus, comprising a processor and an interface circuit, wherein the interface circuit is configured to: receive a signal from a communication apparatus other than the communication apparatus and transmit the signal to the processor, or send a signal from the processor to a communication apparatus other than the communication apparatus, and the processor is configured to implement the method according to any one of claims 1 to 7 through a logic circuit or by executing code instructions.

17. A communication apparatus, comprising:

means for performing the method according to any one of claims 1 to 7.

18. A computer-readable storage medium, wherein the storage medium stores a program or instructions; and when the program or the instructions are run on a computer, the method according to any one of claims 1 to 7 is implemented.

19. A computer program product, wherein the computer product comprises a program or instructions; and when the program or the instructions are run on a computer, the method according to any one of claims 1 to 7 is implemented.