

CLAIMS

1. A method comprising the following steps performed by a mobile terminal:

receiving a control channel signal from a base station, wherein the control channel signal comprises a Modulation and Coding Scheme (MCS) Index, information on resource blocks used for a transmission from the mobile terminal to the base station, and a channel quality indicator trigger for triggering a transmission of an aperiodic channel quality indicator report to the base station, and

transmitting the aperiodic channel quality indicator report to the base station without multiplexing the aperiodic channel quality indicator report with data to be transmitted via an Uplink Shared Channel (UL-SCH), in case when the channel quality indicator trigger is set and the control channel signal indicates a determined value of the MCS Index and also indicates a number of resource blocks that is smaller than or equal to a determined number of resource blocks.
2. The method according to claim 1, wherein the determined MCS index has value 29.
3. The method according to any one of the preceding claims, wherein the mobile terminal is configured to feed back the aperiodic channel quality indicator report on a Physical Uplink Shared Channel (PUSCH) based on one of a plurality of reporting modes.
4. The method according to any one of the preceding claims, wherein a Physical Uplink Shared Channel (PUSCH) is used to transmit the aperiodic channel quality indicator report.
5. The method according to any one of the preceding claims, wherein the channel quality indicator trigger is a Channel Quality indicator request bit,
6. The method according to claim 1, wherein the determined MCS Index indicates a redundancy version with value 1.
7. The method according to claim 6, wherein the redundancy version with value 1 is a redundancy version infrequently used for data retransmission.
8. A mobile terminal comprising:

a receiver configured to receive a control channel signal from a base station, wherein the control channel signal comprises a Modulation and Coding Scheme (MCS) Index, information on resource blocks used for a transmission from the mobile terminal to the base station, and a channel quality indicator trigger for triggering a transmission of an aperiodic channel quality indicator report to the base station, and

a transmitter configured to transmit the aperiodic channel quality indicator report to the base station without multiplexing the aperiodic channel quality indicator report with data to be transmitted via an Uplink Shared Channel (UL-SCH), in case when the channel quality indicator trigger is set and the control channel signal indicates a determined value of the MCS index and also indicates a number of resource blocks that is smaller than or equal to a determined number of resource blocks.

9. The mobile terminal according to claim 8, wherein the determined MCS Index has value 29.
10. The mobile terminal according to claim 8 or 9, which is configured to feed back the aperiodic channel quality indicator report on a Physical Uplink Shared Channel (PUSCH) based on one of a plurality of reporting modes.
11. The mobile terminal according to any one of claims 8 to 10, wherein the transmitter is configured to use a Physical Uplink Shared CHannel (PUSCH) to transmit the aperiodic channel quality indicator report.
12. The mobile terminal according to claim 8, wherein the determined MCS index indicates a redundancy version with value 1.
13. The mobile terminal according to claim 12, wherein the redundancy version with value 1 is a redundancy version infrequently used for data retransmission.
14. A base station comprising
a transmitter configured to transmit a control channel signal to a mobile terminal, wherein the control channel signal comprises a Modulation and Coding Scheme (MCS) Index, information on resource blocks used for a transmission from the mobile terminal to the base station, and a channel quality indicator trigger for triggering a transmission of an aperiodic channel quality indicator report from the mobile station to the base station, and

a receiver configured to receive from the mobile terminal the aperiodic channel quality indicator report, which is not multiplexed with data transmitted via an Uplink Shared Channel (UL-SCH), in case when the channel quality indicator trigger is set and the control channel signal indicates a determined value of the MCS Index and also indicates a number of resource blocks that is smaller than or equal to a determined number of resource blocks.

15. The base station according to claim 14, wherein the determined MCS Index has value 29.
16. The base station according to claim 14 or 15, which is configured to receive the aperiodic channel quality indicator report on a Physical Uplink Shared Channel (PUSCH) based on one of a plurality of reporting modes.
17. The base station according to any one of claims 14 to 16, wherein the receiver is configured to use a Physical Uplink Shared CHannel (PUSCH) to receive the aperiodic channel quality indicator report.
18. The base station according to claim 14, wherein the determined MCS Index indicates a redundancy version with value 1.
19. The base station according to claim 14, wherein the redundancy version with value 1 is a redundancy version infrequently used for data retransmission.

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1. A method comprising the following steps performed by a mobile terminal: receiving a control channel signal from a base station, wherein the control channel signal comprises a Modulation and Coding Scheme (MCS) Index, information on resource blocks used for a transmission from the mobile terminal to the base station, and a channel quality indicator trigger for triggering a transmission of an aperiodic channel quality indicator report to the base station, in case when the channel quality indicator trigger is set and the control channel signal indicates a determined value of the MCS Index and also indicates a number of resource blocks that is smaller than or equal to a determined number of resource blocks, transmitting the aperiodic channel quality indicator report to the base station without multiplexing the aperiodic channel quality indicator report, with data to be transmitted by the mobile terminal via an Uplink Shared Channel (UL-SCH), and in case (a) when the channel quality indicator trigger is set and the control channel signal does not indicate the determined value of the MCS Index, or in case (b) when the channel quality indicator trigger is set and the control channel does not indicate a number of resource blocks that is smaller than or equal to the determined number of resource blocks, transmitting the aperiodic channel quality indicator report to the base station while multiplexing the aperiodic channel quality indicator report with data to be transmitted by the mobile terminal via the UL-SCH.
2. The method according to claim 1, wherein the determined MCS Index has value 29.
3. The method according to claim 1, wherein the mobile terminal is configured to feed back the aperiodic channel quality indicator report on a Physical Uplink Shared Channel (PUSCH) based on one of a plurality of reporting modes.
4. The method according to claim 1, wherein a Physical Uplink Shared CHannel (PUSCH) is used to transmit the aperiodic channel quality indicator report.
5. The method according to claim 1, wherein the channel quality indicator trigger is a Channel Quality Indicator request bit
6. The method according to claim 1, wherein the determined MCS Index indicates a redundancy version with value 1.
7. The method according to claim 1, wherein the determined number of resource blocks is smaller than 10.

8. A mobile terminal comprising: a receiver configured to receive a control channel signal from a base station, wherein the control channel signal comprises a Modulation and Coding Scheme (MCS) Index, information on resource blocks used for a transmission from the mobile terminal to the base station, and a channel quality indicator trigger for triggering a transmission of an aperiodic channel quality indicator report to the base station, and a transmitter configured to transmit the aperiodic channel quality indicator report to the base station, the transmitter being further configured: to transmit the aperiodic channel quality indicator report without multiplexing the aperiodic channel quality indicator report with data to be transmitted by the mobile terminal via an Uplink Shared Channel (UL-SCH), in case when the channel quality indicator trigger is set and the control channel signal indicates a determined value of the MCS Index and also indicates a number of resource blocks that is smaller than or equal to a determined number of resource blocks, and to transmit the aperiodic channel quality indicator report while multiplexing the aperiodic channel quality indicator report, with data to be transmitted by the mobile terminal via the UL-SCH, in case (a) when the channel quality indicator trigger is set and the control channel signal does not indicate the determined value of the MCS Index, or in case (b) when the channel quality indicator trigger is set and the control channel does not indicate a number of resource blocks that is smaller than or equal to the determined number of resource blocks.
9. The mobile terminal according to claim 8, wherein the determined MCS Index has value 29.
10. The mobile terminal according to claim 8, which is configured to feed back the aperiodic channel quality indicator report on a Physical Uplink Shared Channel (PUSCH) based on one of a plurality of reporting modes.
11. The mobile terminal according to claim 8, wherein the transmitter is configured to use a Physical Uplink Shared CHannel (PUSCH) to transmit the aperiodic channel quality indicator report.
12. The mobile terminal according to claim 8, wherein the determined MCS Index indicates a redundancy version with value 1.
13. The mobile terminal according to claim 8, wherein the determined number of resource blocks is smaller than 10.

14. A base station comprising: a transmitter configured to transmit a control channel signal to a mobile terminal, wherein the control channel signal comprises a Modulation and Coding Scheme (MCS) Index, information on resource blocks used for a transmission from the mobile terminal to the base station, and a channel quality indicator trigger for triggering a transmission of an aperiodic channel quality indicator report from the mobile station to the base station, and a receiver configured to receive from the mobile terminal the aperiodic channel quality indicator report when the channel quality indicator trigger is set, wherein the aperiodic channel quality indicator report is not multiplexed with data transmitted by the mobile terminal via an Uplink Shared Channel (UL-SCH) in case when the control channel signal indicates a determined value of the MCS Index and also indicates a number of resource blocks that is smaller than or equal to a determined number of resource blocks, and wherein the aperiodic channel quality indicator report is multiplexed with data transmitted by the mobile terminal via the UL-SCH, in case (a) when the control channel signal does not indicate the determined value of the MCS Index, or in case (b) when the control channel does not indicate a number of resource blocks that is smaller than or equal to the determined number of resource blocks.
15. The base station according to claim 14, wherein the determined MCS Index has value 29.
16. The base station according to claim 14, which is configured to receive the aperiodic channel quality indicator report on a Physical Uplink Shared CHannel (PUSCH) based on one of a plurality of reporting modes.
17. The base station according to claim 14, wherein the receiver is configured to use a Physical Uplink Shared CHannel (PUSCH) to receive the aperiodic channel quality indicator report.
18. The base station according to claim 14, wherein the determined MCS Index indicates a redundancy version with value 1.
19. The base station according to claim 14, wherein the determined number of resource blocks is smaller than 10.