CLAIMS

1. A method in a user equipment (420) for reporting Channel State Information, CSI, which user equipment (420) is in connection with a base station (410) in a cellular communication network (400), the method comprising:

receiving (702) from the base station (410), a grant in a subframe n to be used for CSI reporting,

characterized in the steps of

determining (703) subframe type of a subframe n+p; and

reporting (704) to the base station (410), CSI reflecting channel conditions in a subframe of the type corresponding to the subframe type of subframe n+p, where p is a variable value.

2. Method according to claim 1, wherein the value p is equal to zero.

3. Method according to claim 1, wherein p is a variable value known both to the cellular communication network (400) and the user equipment (420).

4. Method according to any of the claims 1-3, wherein the subframe type of subframe n+p is one of two or more subframe types, which two or more subframe types are associated with a respective set of different subframes, where a set of subframes contains subframes of the same subframe type, and wherein the *reporting* (704) CSI reflects channel conditions in the subframes belonging to the set of subframes associated to the subframe type of subframe n+p.

5. Method according to claim 4, further comprising:

receiving (701) a message from the base station, which message indicates the set of subframes.

6. Method according to any of the claims 1-5, wherein the subframe type is represented by a first subframe type corresponding to a protected subframe, which first subframe type is associated with a set of subframes comprising protected subframes aligned with low interference created by a neighbour cell.

7. Method according to any of the claims 1-5, wherein the subframe type is represented by a second subframe type corresponding to a non-protected subframe, which second subframe type is associated with a set of subframes comprising non-protected subframes, which non-protected subframes are subframes that are not part of protected subframes aligned with low interference created by a neighbour cell.

8. Method according to claim 5, wherein the subframe type is represented by a first subframe type corresponding to a protected subframe, which first subframe type is associated with a set of subframes indicated as protected in the message from the base station (410).

9. Method according to claim 5, wherein the subframe type is represented by a second subframe type corresponding to a non-protected subframe, which second subframe type is associated with a set of subframes being indicated as complementary in the message from the base station (410).

10. Method according to any of the claims 4-9, wherein the set of subframes comprises a subset of protected subframes aligned with low interference created by a neighbour cell.

11. Method according to any of the claims 1-10, wherein the *reporting* (704) of CSI is aperiodic.

12. A method in a base station (410) for obtaining channel state information, CSI, from a user equipment (420), which base station (410) is comprised in a cellular communication network (400), the method comprising

providing (901) the user equipment (420) with a grant in a subframe n to be used for CSI reporting; ~~and~~ *characterized in*

receiving (902) from the user equipment (420), CSI reflecting channel conditions in a subframe of the type corresponding to a subframe type of subframe n+p, where p is a variable value.

13. Method according to claim 12, wherein the value p is equal to zero.

14. Method according to claim 12, wherein p is a variable value known both to the cellular communication network (400) and the user equipment (420).

15. Method according to any of the claims 12-14, wherein the subframe type of subframe n+p is one of two or more subframe types, which two or more subframe types are associated with a respective set of different subframes, where a set of subframes contains subframes of the same subframe type, and wherein the *receiving* (902) CSI from the user equipment (420) reflects channel conditions in the subframes belonging to the set of subframes associated to the subframe type of subframe n+p.

16. Method according to claim 15, further comprising:

sending (903) a message to the user equipment (420), which message indicates the set of subframes.

17. Method according to any of the claims 12-16, wherein the subframe type is represented by a first subframe type corresponding to a protected subframe, which first subframe type is associated with a set of subframes comprising protected subframes aligned with low interference created by a neighbour cell.

18. Method according to any of the claims 12-16, wherein the subframe type is represented by a second subframe type corresponding to a non-protected subframe, which second subframe type is associated with a set of subframes comprising non-protected subframes, which non-protected subframes are subframes that are not part of protected subframes aligned with low interference created by a neighbour cell.

19. Method according to claim 16, wherein the subframe type is represented by a first subframe type corresponding to a protected subframe, which first subframe type is associated with a set of subframes indicated as protected in the message to the user equipment (420).

20. Method according to claim 16, wherein the subframe type is represented by a second subframe type corresponding to a non-protected subframe, which second

subframe type is associated with a set of subframes being indicated as complementary in the message to the user equipment (420).

21. Method according to any of the claims 15-20, wherein the set of subframes comprises a subset of protected subframes aligned with low interference created by a neighbour cell.

22. Method according to any of the claims 12-21, wherein the base station (410) is represented by a low power node serving a first cell, which first cell is comprised in a neighbour cell represented by a macro cell served by a macro base station, and which first cell and macro cell share radio resources on the same carrier frequencies

23. Method according to any of the claims 12-22, wherein the base station (410) is represented by a pico base station serving a pico cell, which pico cell is comprised in a neighbour cell represented by a macro cell served by a macro base station , and which pico cell and macro cell share radio resources on the same carrier frequencies.

24. An arrangement (800) in a user equipment (420) adapted to communicate with a base station (410) in a cellular communication network (400), said user equipment (420) being capable of reporting channel state information to said base station (410), said arrangement (800) comprising processing circuitry (805) configured to:

receive from the base station (410), a grant in a subframe n to be used for CSI reporting; characterized in said processing circuitry being configured to

determine subframe type of a subframe n+p; and

report to the base station (410), CSI reflecting channel conditions in a subframe of the type corresponding to a subframe type of subframe n+p, where p is a variable value.

25. ~~Method~~Arrangement according to claim 24, wherein the value p is equal to zero.

26. ~~Method~~Arrangement according to claim 24, wherein p is a variable value known both to the cellular communication network (400) and the user equipment (420).

27. Arrangement (800) according to any of the claims ~~claim~~ 24-26, wherein the subframe type of subframe n+p is one of two or more subframe types, which two or more subframe types are associated with a respective set of different subframes, where a set of subframes contains subframes of the same subframe type, and wherein the processing circuitry (805) further is configured to report CSI reflecting channel conditions in the subframes belonging to the set of subframes associated to the subframe type of subframe n+p.

28. Arrangement (800) according to claim 27, wherein the processing circuitry (805) further is configured to receive a message from the base station (410), which message indicates the set of subframes.

29. Arrangement (800) according to any of the claims 24-28, wherein the subframe type is represented by a first subframe type corresponding to a protected subframe, which first subframe type is associated with a set of subframes comprising protected subframes aligned with low interference created by a neighbour cell.

30. Arrangement (800) according to any of the claims 24-28, wherein the subframe type is represented by a second subframe type corresponding to a non-protected subframe, which second subframe type is associated with a set of subframes comprising non-protected subframes, which non-protected subframes are subframes that are not part of protected subframes aligned with low interference created by a neighbour cell.

31. Arrangement (800) according to claim 28, wherein the subframe type is represented by a first subframe type corresponding to a protected subframe, which first subframe type is associated with a set of subframes indicated as protected in the message from the base station (410).

32. Arrangement (800) according to claim 28, wherein the subframe type is represented by a second subframe type corresponding to a non-protected subframe, which second subframe type is associated with a set of subframes being indicated as complementary in the message from the base station (410).

33. Arrangement (800) according to any of the claims 24-32, wherein the set of subframes comprises a subset of protected subframes aligned with low interference created by a neighbour cell.

34. Arrangement (800) according to any of the claims 24-34, wherein the processing circuitry (805) further is configured to report CSI aperiodic.

35. An arrangement (1000) in a base station (410) capable of obtaining channel state information, CSI, from a user equipment (420), which base station is to be comprised in a cellular communication network, said arrangement comprising processing circuitry (1010) configured to

provide the user equipment (420) with a grant in a subframe n to be used for CSI reporting; ~~and~~characterized in said processing circuitry being configured to receive CSI from the user equipment (420) reflecting channel conditions in a subframe of the type corresponding to a subframe type of subframe n+p, where p is a variable value.

36. ~~Method~~Arrangement according to claim 35~~7~~, wherein the value p is equal to zero.

37. ~~Method~~Arrangement according to claim 35~~7~~, wherein p is a variable value known both to the cellular communication network (400) and the user equipment (420).

38. Arrangement (1000) according to claim 35, wherein the subframe type of subframe n+p is one of two or more subframe types, which two or more subframe types are associated with a respective set of different subframes, where a set of subframes contains subframes of the same subframe type, and wherein the processing circuitry (1005) further is configured to receive CSI from the user equipment (420) reflects channel conditions in the subframes belonging to the set of subframes associated to the subframe type of subframe n+p.

39. Arrangement (1000) according to any of the claims 35-38, wherein the processing circuitry (1005) further is configured to send a message to the user equipment (420), which message indicates the set of subframes.

40. Arrangement (1000) according to any of the claims 35-39, wherein the subframe type is represented by a first subframe type corresponding to a protected subframe, which first subframe type is associated with a set of subframes comprising protected subframes aligned with low interference created by a neighbour cell.

41. Arrangement (1000) according to any of the claims 35-40, wherein the subframe type is represented by a second subframe type corresponding to a non-protected subframe, which second subframe type is associated with a set of subframes comprising non-protected subframes, which non-protected subframes are subframes that are not part of protected subframes aligned with low interference created by a neighbour cell.

42. Arrangement (1000) according to claim 39, wherein the subframe type is represented by a first subframe type corresponding to a protected subframe, which first subframe type is associated with a set of subframes indicated as protected in the message to the user equipment (420).

43. Arrangement (1000) according to claim 39, wherein the subframe type is represented by a second subframe type corresponding to a non-protected subframe, which second subframe type is associated with a set of subframes being indicated as complementary in the message to the user equipment (420).

44. Arrangement (1000) according to any of the claims 35-43, wherein the set of subframes comprises a subset of protected subframes aligned with low interference created by a neighbour cell.

45. Arrangement (1000) according to any of the claims 35-44, wherein the base station (410) is represented by a low power node serving a first cell, which first cell is comprised in a neighbour cell represented by a macro cell served by a macro base station (410), and which first cell and macro cell share radio resources on the same carrier frequencies

46. Arrangement (1000) according to any of the claims 35-45, wherein the base station (410) is represented by a pico base station serving a pico cell, which pico cell is comprised in a neighbour cell represented by a macro cell served by a macro base

station (410), and which pico cell and macro cell share radio resources on the same carrier frequencies.