

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) A user equipment (UE) comprising:  
circuitry configured to receive signals transmitted by plurality of antennas of a base station;

wherein the received signal ~~having~~ from each transmitting antenna has a sequence of symbols unique to that antenna and the received signal ~~having~~ has a weighted sequence of symbols transmitted from all of the plurality of antennas;

wherein the circuitry is further configured to derive a preferred weight for a subsequent received signal based on the received signal and transmit an indication of the preferred weight to the base station;

wherein the signal associated with a first antenna is combined with a corresponding signal associated with a second antenna using the preferred weight.

2. (Original)The UE of claim 1, wherein the sequences of symbols from each antenna and the weighted sequence of symbols are derived from a same type of sequence.

3. (Original)The UE of claim 2, wherein the same type of sequence is a pseudo random sequence.

4. (Original)The UE of claim 2, wherein the sequences of symbols from each antenna are pilot symbols.

5. (Currently amended) A base station comprising:  
a plurality of antennas that transmit signals, wherein each signal comprises a sequence of symbols unique to each one of the plurality of antennas and the signal has a weighted sequence of symbols,  
wherein the antennas ~~is~~ are configured to receive a signal indicating a preferred weight for a subsequent transmission signal based on the preferred weight;  
wherein the signal associated with a first antenna is combined with a corresponding signal associated with a second antenna using the preferred weight.

6. (Original)The base station of claim 5, wherein the sequences of symbols and the weighted sequence of symbols are derived from a same type of sequence.

7. (Original)The base station of claim 6, wherein the same type of sequence is a pseudo random sequence.

8. (Original)The base station of claim 6, wherein the sequences of symbols are pilot symbols.

9. (Currently amended) A method for deriving a preferred weight for a received signal from a Node B based on a received signal and transmitting an indication of the preferred weight to the base station comprising:  
receiving signals transmitted by plurality of antennas of a base station wherein the received signal has from each transmitting antenna a sequence of

symbols unique to that antenna and the received signal has a weighted sequence of symbols transmitted from all of the plurality of antennas;

deriving a preferred weight for a subsequent received signal based on the received signal; and

transmitting an indication of the preferred weight to the base station  
wherein the signal associated with a first antenna is combined with a corresponding signal associated with a second antenna using the preferred weights.

10. (Original) The method of claim 9, wherein the sequences of symbols and the weighted sequence of symbols are derived from a same type of sequence.

11. (Original) The method of claim 10, wherein the same type of sequence is a pseudo random sequence.

12. (Original) The method of claim 10, wherein the sequences of symbols are pilot symbols.