

~~WHAT IS CLAIMED IS:~~**CLAIMS**

1. A method for wireless communications by a user equipment (UE), comprising:
 receiving downlink control information (DCI) signaling of a target code rate calculated based on a set of transmission parameters used for a joint transmission of a transport block (TB) to the UE involving ~~different resource sets comprising~~ at least first and second resource sets associated with first and second transmitter receiver points (TRPs), wherein the target code rate is calculated as a combined rate based on a total number of coded bits to be transmitted across both the first and second resource sets for the joint transmission; and
 calculating a transport block size (TBS) for processing the joint transmission based on the target code rate.
2. The method of claim 1, wherein resources of the first and second resource sets are differentiated via at least one of spatial division multiplexing (SDM), frequency division multiplexing (FDM), or time division multiplexing (TDM).
3. The method of claim 1, wherein:
~~the first and second sets of resources are associated with first and second transmitter receiver points (TRPs); and~~
 the target code rate is calculated based on ~~at~~ the set of transmission parameters used by at least one of the first TRP or the second TRP.
4. The method of claim 1, wherein the first and second resource sets are associated with different TCI states.
5. The method of claim 1, wherein the ~~target code rate is calculated as a combined rate based on a total number of coded bits to be transmitted across both the first and second resource sets for the transmission.~~
6. ~~The method of claim 5, wherein the TBS is calculated based on a number of information bits calculated based on:~~

the combined rate;

a number of resource elements (REs) allocated for a physical downlink shared channel (PDSCH) within a physical resource block (PRB) set for each of the first and second resource sets scheduled for the transmission;

a modulation order for the PDSCH for each of the first and second resource sets; and

a number of layers for each of the first and second resource sets.

76. The method of claim 65, wherein the DCI comprises:

a modulation and coding scheme (MCS) field that indicates the target code rate and the modulation order of the first resource set; and

a field that also indicates the modulation order of the second resource set.

87. The method of claim 65, wherein the DCI comprises a single modulation and coding scheme (MCS) field that indicates the target code rate, the modulation order of the first resource set, and the modulation order of the second resource set.

9. ~~The~~8. A method for wireless communications by a user equipment (UE), comprising:
receiving downlink control information (DCI) signaling of claim 1, a target code rate
calculated based on a set of transmission parameters used for a joint transmission of a transport
block (TB) to the UE involving different resource sets comprising at least first and second
resource sets associated with first and second transmitter receiver points (TRPs), wherein the
target code rate is calculated based on a total number of coded bits to be transmitted across a
selected one of the first resource set or the second resource set for the joint transmission; and
calculating a transport block size (TBS) for processing the joint transmission based on the
target code rate.

109. The method of claim 98, wherein: the total number of coded bits to be transmitted across the selected resource set is determined based on a number of resource blocks, orthogonal frequency division multiplexing (OFDM) symbols, modulation order and a number of layers for the selected resource set.

11. ~~The method of claim 10.~~ The method of claim 9, wherein the DCI indicates at least

one of the number of resource blocks, the OFDM symbols, the modulation order or the number of layers for the selected resource set.

~~12~~11. The method of claim ~~98~~, wherein the TBS is calculated based on:

the target code rate;

a number of resource elements (REs) allocated for a physical downlink shared channel (PDSCH) within a physical resource block (PRB) set for the selected resource set scheduled for ~~the~~ a multi-TRP transmission;

a modulation order for the PDSCH for the selected resource set; and

a number of layers for the selected resource set.

~~13~~12. A method for wireless communications by a first transmission reception point (TRP), comprising:

calculating a target code rate based on a set of transmission parameters for a joint transmission of a transport block (TB) to a user equipment (UE) involving different resource sets comprising at least first and second resource sets; associated with the first TRP and a second TRP, wherein the target code rate is calculated as a combined rate based on a total number of coded bits to be transmitted across both the first and second resource sets for the joint transmission; and

signaling, via downlink control information (DCI), the target code rate to the UE for use in calculating a transport block size (TBS) for processing the joint transmission.

~~14~~13. The method of claim ~~13~~12, wherein resources of the first and second resource sets are differentiated via at least one of spatial division multiplexing (SDM), frequency division multiplexing (FDM), or time division multiplexing (TDM).

~~15~~14. The method of claim ~~13~~12, wherein:

~~the first and second sets of resources are associated with the first TRP and a second TRP; and~~

the target code rate is calculated based on a~~the~~ set of transmission parameters used by at least one of the first TRP or the second TRP.

~~16~~15. The method of claim ~~13~~12, wherein the first and second resource sets are associated with different TCI states.

~~17. The method of claim 13, wherein the target code rate is calculated as a combined rate based on a total number of coded bits to be transmitted across both the first and second resource sets for the transmission.~~

~~18. The method of claim 17~~16. The method of claim 12, wherein the combined rate is calculated based on:

a number of resource elements (REs) allocated for a physical downlink shared channel (PDSCH) within a physical resource block (PRB) set for each of the first and second resource sets;

a modulation order for the PDSCH for each of the first and second resource sets; and
a number of layers for each of the first and second resource sets.

~~19~~17. The method of claim ~~18~~16, wherein the DCI comprises:

a modulation and coding scheme (MCS) field that indicates the target code rate and the modulation order of the first resource set; and

a field that indicates the modulation order of the second resource set.

~~20~~18. The method of claim ~~18~~16, wherein the DCI comprises a single modulation and coding scheme (MCS) field that indicates the target code rate, the modulation order of the first resource set, and the modulation order of the second resource set.

~~21. The method of claim 13~~19. A method for wireless communications by a first transmission reception point (TRP), comprising:

calculating a target code rate based on a set of transmission parameters for a joint transmission of a transport block (TB) to a user equipment (UE) involving different resource sets comprising at least first and second resource sets associated with the first TRP and a second TRP, wherein the target code rate is calculated based on a total number of coded bits to be transmitted across a selected one of the first resource set or the second resource set for the joint transmission; and

signaling, via downlink control information (DCI), the target code rate to the UE for use

in calculating a transport block size (TBS) for processing the joint transmission.

~~22~~20. The method of claim ~~24~~19, wherein: the total number of coded bits to be transmitted across the selected resource set is determined based on a number of resource blocks, ~~OFDM~~orthogonal frequency division multiplexing (OFDM) symbols, a modulation order, and number of layers for the selected resource set.

~~23~~21. The method of claim ~~22~~20, wherein the DCI indicates at least one of the number of resource blocks, the OFDM symbols, the modulation order or the number of layers for the selected resource set.

~~24~~22. The method of claim ~~24~~19, wherein the target code rate is calculated based on:
a number of resource elements (REs) allocated for a physical downlink shared channel (PDSCH) within a physical resource block (PRB) set for the selected resource set;
a modulation order for the PDSCH for the selected resource set; and
a number of layers for the selected resource set.

~~25~~23. An apparatus for wireless communications by a first transmission reception point (TRP), comprising:

means for calculating a target code rate based on a set of transmission parameters used by at least one of the first TRP or a second TRP for a multi-TRP joint transmission of a transport block (TB) to a user equipment (UE); involving different resource sets comprising at least first and second resource sets associated with the first TRP and the second TRP, wherein the target code rate is calculated as a combined rate based on a total number of coded bits to be transmitted across both the first and second resource sets for the joint transmission; and

means for signaling, via downlink control information (DCI), the target code rate to the UE for use in calculating a transport block size (TBS) for processing the multi-TRP transmission.

~~26~~24. An apparatus for wireless communications by a user equipment (UE), comprising:

means for receiving downlink control information (DCI) signaling of a target code rate calculated based on a set of transmission parameters used by at least one of a first transmission

reception point (TRP) or a second TRP for a multi-TRP joint transmission of a transport block (TB) to a user equipment (UE); involving different resource sets comprising at least first and second resource sets associated with the first and second TRPs, wherein the target code rate is calculated as a combined rate based on a total number of coded bits to be transmitted across both the first and second resource sets for the joint transmission; and

means for calculating a transport block size (TBS) for processing the multi-TRP transmission based on the target code rate.