Análisis del efecto del número de *beams* sobre un escenario 5G

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ABSTRACT

5G has been presented as the most revolutionary generation in the mobile network paradigm. With regard to the RAN part, the main achieved improvements in comparison with its predecessor are based on the use of mmWaves. To overcome the high propagation losses that are inherent to mmWaves, beamforming scheme usage becomes essential. In this scope, the aim of this paper is to provide a first approach regarding the effect of the beamforming configuration in these radio networks. To do so, a complete scenario has been simulated in ns-3, enabling the evaluation of the signal-to-interference-plus-noise ratio (SINR) received by a UE under different number of configured beams.

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