

# Análisis de Interferencia *Cross-Link* Sobre un escenario 5G mmWave

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## ABSTRACT

The use of Time Division Duplex (TDD) has not been fully adopted by operators in LTE networks and its previous generations. In contrast, the fifth generation (5G) is introducing new technical motivations for its use. In order to achieve network flexibility as well as to provide service to every use case, it is necessary to adapt the resources allocated to DL and UL. On the other hand, beamforming techniques require sharing channel state information regularly in both directions. Hence, TDD is a promising option, although it may cause various interference types. The aim of this work is to analyze the Cross-Link Interference (CLI). To do this, a complete scenario simulation has been configured with different conditions, while the signal- to-interference-plus-noise ratio (SINR) has been monitored.

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