

OVERVIEW OF MILLIMETRE WAVE BAND TO BE USED IN 5G

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ABSTRACT

5G is the most promising standard for next generation mobile cellular networks. It will definitely provide great speeds between 10Gbps to 100Gbps with enough capacity to accommodate huge mobile traffic. But the thing that separated 5G from 4G is the latency; the latency provided by 4G is between 40ms to 60ms, whereas in 5G it will provide ultra-latency between 1ms to 10ms. The standards for 5G will be set till 2020 and it will be applicable by 2022/23. In this paper we have discussed about 5G and its evolution, about millimetre wave communication, its characteristics, challenges and application areas.

KEYWORDS: Millimetre Wave, Channel Measurement, Blockage Sensitivity